EXHIBIT 2

CONTRACTOR’S BID

Owen Ames Kimball
Building Since 1891

Castle Rock Fire Station 156

Scope Adjustment Log

1/27/2026

Dunakilly and City Budget	**$2,049,412**	**GMP Submitted 12.10.2025**	**$19,853,962**	**Current Owner Cost**	**$21,903,374**
Value of Accepted Scope Adjustments	-$300,000	Value of Accepted Scope Adjustments	-$603,374	**Value of Accepted Scope Adjustments**	**-$903,374**
w/ Accepted Scope Adjustments	**$1,749,412**	**Value w/ Accepted Scope Adjustments**	**$19,250,588**	**Total Value w/ Accepted Scope Adjustments**	**$21,000,000**
				Total project budget per 1/13/26 meeting	$21,000,000
				Delta b/t GMP and Goal	$0

Item #	Description	Value	Code	(1) Pending Deduct	(2) Pending Add	(3) Accepted Value	(4) Rejected Value	Decision Date	Comments
Owner Scope Adjustments									
0-1	Owner Allowance Deduct: "Owner Held Contingency Fund"	$ (300,000)	3	$0	$0	-$300,000	$0	13-Jan-26	Gary provided deduct after OAC meeting 1/13/26
0-2		$ -		$0	$0	$0	$0		
0-3		$ -		$0	$0	$0	$0		
				$0	**$0**	**-$300,000.00**	**$0**		
1-Multi-Trade Options									
1-1	Remove P&P bond requirement	$ (167,716)	4	$0	$0	$0	-$167,716	13-Jan-26	
1-2	Reduce water line size form 2" to 1.5"	$ (181,781)	3	$0	$0	-$181,781	$0	13-Jan-26	Confirmed in OAC meeting 1/13/26
1-3	Reduce Rock Allow	$ (235,246)	3	$0	$0	-$235,246	$0	13-Jan-26	Transfer $220,000 Rock Allowance to Owner Allowance
1-4		$ -		$0	$0	$0	$0		
1-5		$ -		$0	$0	$0	$0		
1-6		$ -		$0	$0	$0	$0		
1-7		$ -		$0	$0	$0	$0		
1-8		$ -		$0	$0	$0	$0		
2-Existing Conditions									
3-Building Concrete									
3-1	Change Colored concrete color: Interstar Baja Red (1 Bag) in lieu of Davis Terra Cotta	$ (3,534)	3	$0	$0	-$3,534	$0	13-Jan-26	
3-2	Change grating tread stairs to pan filled stairs	$ -	4	$0	$0	$0	$0		
3-3		$ -		$0	$0	$0	$0		
3-4		$ -		$0	$0	$0	$0		
3-5		$ -		$0	$0	$0	$0		
4-Masonry									
4-1	Change Masonry wall out side of room 155 to wood plank	$ (7,699)	4	$0	$0	$0	-$7,699		
4-2	Remove free standing masonry walls outside of rooms 155 & 137	$ (21,658)	3	$0	$0	-$21,658	$0		Tino provided VE in email 1/16/25
4-3		$ -		$0	$0	$0	$0		
4-4		$ -		$0	$0	$0	$0		
4-5		$ -		$0	$0	$0	$0		
5-Metal Fabrications									
5-1	Remove steel pergola	$ (23,525)	3	$0	$0	-$23,525	$0		Tino provided VE in email 1/16/25
5-2		$ -		$0	$0	$0	$0		
5-3		$ -		$0	$0	$0	$0		
5-4		$ -		$0	$0	$0	$0		
5-5		$ -		$0	$0	$0	$0		
6.1-Rough Carpentry									
6.2-Finish Carpentry									
7.1-Foundation Insulation and Waterproofing									
7.2-Insulation and Air Barriers									
7.2-1	Change portions of fluid applied air barrier system to Tyvek wrap	$ -	1	$0	$0	$0	$0		
7.2-2		$ -		$0	$0	$0	$0		
7.2-3		$ -		$0	$0	$0	$0		
7.2-4		$ -		$0	$0	$0	$0		
7.2-5		$ -		$0	$0	$0	$0		
7.3-Siding and Soffit Panels									
7.3-1	Change Interior wall panel: Berridge HR-16 to S-Deck Panel	$ (38,471)	3	$0	$0	-$38,471	$0	13-Jan-26	
7.3-2	Change Soffit Panels from 22ga to 24ga	$ (8,835)	1	-$8,835	$0	$0	$0		Tino has "oil canning" concerns

7.3-3	Change Asphalt shingle material to GAF Natural Shadow Shingles	$ (6,587)	3	$0	$0	-$6,587	$0	13-Jan-26	
7.3-4	Remove Liner panels from Mezz	$ (192,799)	1	-$192,799	$0	$0	$0		Based on the Alt Material: S-deck
7.3-5	Alt metal siding options (holding BOD profile)	$ -	4	$0	$0	$0	$0		Maintaining DOB ga on material
7.3-6	Berridge FW-12 panel standard color 22 ga	$ (95,364)	1	-$95,364	$0	$0	$0		https://www.berridge.com/products/exposed-fastener-panel-systems/s-deck-panel/
7.3-7	Berridge HR-16 panel standard color 22 ga	$ (110,198)	1	-$110,198	$0	$0	$0		https://www.berridge.com/products/fascia-wall-and-soffit-panels/fw-12-panel/
7.3-8	Berridge S-deck panel standard color 22 ga	$ (128,275)	4	$0	$0	$0	-$128,275		https://www.berridge.com/products/fascia-wall-and-soffit-panels/hr-16-panel/
7.4-Roofing									
7.5-Expansion Control and Joint Sealants									
8.1-Doors Frames and Hardware									
8.2-Overhead Doors									
8.3-Storefronts and Windows									
8.4-Skylights									
9.1-Drywall and Framing									
9.2-Stucco Assemblies									
9.3-Acoustical Ceilings and Wall Panels									
9.4-Flooring									
9.5-Painting and Wallcovering									
10-Specialties									
10-1	Alternate building signage options: building mounted signage	$ (7,310)	4	$0	$0	$0	-$7,310	13-Jan-26	change 3D look to flat plane signage w/o Illumination
10-2		$ -		$0	$0	$0	$0		
11-Equipment									
12-Furnishings									
14-Conveying Systems									
21-Fire Suppression									
22-Plumbing									
22-1	Remove In-Flooring Heating (ROM)	$ (112,277)	4	$0	$0	$0	-$112,277	13-Jan-26	
22-2		$ -		$0	$0	$0	$0		
22-3		$ -		$0	$0	$0	$0		
22-4		$ -		$0	$0	$0	$0		
22-5		$ -		$0	$0	$0	$0		
23-HVAC									
23-1	Remove RTU mounting screens	$ -	4	$0	$0	$0	$0	13-Jan-26	
23-2		$ -		$0	$0	$0	$0		
23-3		$ -		$0	$0	$0	$0		
23-4		$ -		$0	$0	$0	$0		
23-5		$ -		$0	$0	$0	$0		
23-6		$ -		$0	$0	$0	$0		
23-7		$ -		$0	$0	$0	$0		
23-8		$ -		$0	$0	$0	$0		
26-Electrical									
26-1	Alternate lighting package through TLA vs BOD	$ (61,760)	3	$0	$0	-$61,760	$0	13-Jan-26	ROM cost until final approval
26-2	Confirmed Pricing on Traffic Light	$ (30,165)	3	$0	$0	-$30,165	$0	14-Jan-26	
26-3	Fire Alarm (reduce to code min)	$ (42,019)	3	$0	$0	-$42,019	$0		
26-4	Cat to Generac generator	$ (48,640)	3	$0	$0	-$48,640	$0		Confirm with Scott from CR on MFG & Size of Gen Unit
26-5	Change to MC cabling in walls of office areas	$ (13,174)	1	-$13,174	$0	$0	$0		
26-6	Redesign of line equipment for Distribution Package	$ (11,094)	3	$0	$0	-$11,094	$0		Still spec and code compliant
26-7	Change to MC cabling in walls of Fire Station side	$ -	1	$0	$0	$0	$0		
26-8	Remove lighting in upper clerestory above apparatus bays	$ (25,462)	3	$0	$0	-$25,462	$0		Tino provided VE in email 1/16/25 Eliminate the lighting / "NX" fixture in the two upper clear stories
27-Communications									
28-Electronic Security									
28-1	Process and sell dirt and gravel	$ (172,611)	3	$0	$0	-$172,611	$0	13-Jan-26	Concerns with processing site
28-2	Alt - capture 50% of gravel/dirt option	$ (86,305)		$0	$0	$0	$0		
31-Earthwork									
31-1	Additional Haul cost for site spoils	$ 323,250	3	$0	$0	$323,250	$0	23-Dec-25	Loss of dump site post GMP

31-2		$ -		$0	$0	$0	$0		
31-3		$ -		$0	$0	$0	$0		
31-4		$ -		$0	$0	$0	$0		
31-5		$ -		$0	$0	$0	$0		
32.1-Asphalt Paving									
32.2-Site Concrete									
32.3-Athletic Surfacing									
32.4-Fences and Gates									
32.4-1	Reduce LF of site fencing	$ -	4	$0	$0	$0	$0		
32.4-2	Pull fence cost along retaining wall	$ (82,084)	4	$0	$0	$0	-$82,084	13-Jan-26	
32.4-3	Alt pivoting gate MFG (Sliding Gate vs pivoting)	$ (46,453)	4	$0	$0	$0	-$46,453	13-Jan-26	Confirmed space issues
32.4-4	Remove Security Fencing and Gates	$ (152,768)	1	-$152,768	$0	$0	$0	13-Jan-26	
32.5-Landscaping									
32.6-Site Furnishings									
33-Utilities									
33-1	Confirm pricing on Sanitary Line Design	$ 189,087	4	$0	$0	$0	$189,087	10-Dec-26	Design Issued post GMP (Allowance carried at GMP)
33-2	Updated San $ post CRW Review	$ (24,071)	3	$0	$0	-$24,071	$0	13-Jan-26	Per Chief and CRW email 1/13/26
33-3		$ -		$0	$0	$0	$0		
				-$573,137	**$0**	**-$603,374.00**	**-$362,726**		

EXHIBIT 3

CONTRACTOR’S CERTIFICATE OF INSURANCE

Client#: 164731 OWENAME1

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 2/04/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
EPIC Insurance Midwest
678 Front Ave NW, Suite 330
Grand Rapids, MI 49504

CONTACT NAME: Patti Zuk
PHONE (A/C, No, Ext): - FAX (A/C, No):
E-MAIL ADDRESS: patti.zuk@epicbrokers.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : National Union Fire Ins Co of Pittsburg	19445
INSURER B : Allied World National Assurance Company	10690
INSURER C : New Hampshire Insurance Company	23841
INSURER D : Travelers Property Casualty Co of Amer	25674
INSURER E : Arch Specialty Insurance Company	21199
INSURER F :	

INSURED
O-A-K Colorado LLC
202 6th St., Ste. 200
Castle Rock, CO 80104

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE / X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY / X PRO-JECT / LOC OTHER:	X	X	GL3118752	09/01/2025	09/01/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$2,000,000 $500,000 $10,000 $2,000,000 $4,000,000 $4,000,000 $
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY	X	X	CA2446812	09/01/2025	09/01/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$2,000,000 $ $ $ $
B	X UMBRELLA LIAB / X OCCUR EXCESS LIAB / CLAIMS-MADE DED / X RETENTION $10,000	X	X	03119130	09/01/2025	09/01/2026	EACH OCCURRENCE AGGREGATE $	$10,000,000 $10,000,000 $
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	X	WC48407354	09/01/2025	09/01/2026	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $2,000,000 $2,000,000 $2,000,000
D	Leased/Rented Eqp			QT6307Y24748ATIL25	09/01/2025	09/01/2026	$450,000/$1,000 Ded.	
E	Professional & Pollution Liab.			CPP00344101016	09/01/2025	09/01/2026	$3,000,000 Occ/$6M Agg $50,000 Retention	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Castle Rock Fire Station #156 and Fleet Facility, Town of Castle Rock , UMB, N.A., the Trustee and their respective officers, agents and employees while acting within the scope of their employment are named as additional insureds on a primary and non-contributory basis as required by written contract. A waiver of (See Attached Descriptions)

CERTIFICATE HOLDER
Town of Castle Rock
100 North Wilcox St.
Castle Rock, CO 80104-0000

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
David J. Hop

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DESCRIPTIONS (Continued from Page 1)

subrogation applies in favor of additional insureds as required by written contract. A 30-day notice of cancelation will be provided with the exception of non-payment which is 10 days.

OWENAME1

ACORD™ EVIDENCE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY) 2/18/2026

THIS EVIDENCE OF PROPERTY INSURANCE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE ADDITIONAL INTEREST NAMED BELOW. THIS EVIDENCE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS EVIDENCE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE ADDITIONAL INTEREST.

AGENCY	PHONE (A/C, No, Ext):
EPIC Insurance Midwest 678 Front Ave NW, Suite 330 Grand Rapids, MI 49504	
FAX (A/C, No):	E-MAIL ADDRESS: patti.zuk@epicbrokers.com
CODE:	SUB CODE:
AGENCY CUSTOMER ID #: 164731	

COMPANY: Travelers Property Casualty Company of America

INSURED: O-A-K Colorado LLC
202 6th St., Ste. 200
Castle Rock, CO 80104

LOAN NUMBER:

POLICY NUMBER: TBD

EFFECTIVE DATE: 03/01/2026

EXPIRATION DATE: 07/01/2027

☐ CONTINUED UNTIL TERMINATED IF CHECKED

THIS REPLACES PRIOR EVIDENCE DATED:

PROPERTY INFORMATION

LOCATION/DESCRIPTION

2708 Castle Oaks Dr., Castle Rock, CO 80108
Caste Rock Fire Station 156 and Fleet Facility

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS EVIDENCE OF PROPERTY INSURANCE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

COVERAGE INFORMATION

PERILS INSURED ☐ BASIC ☐ BROAD ☐ SPECIAL ☐

COVERAGE/PERILS/FORMS	AMOUNT OF INSURANCE	DEDUCTIBLE
Builder's Risk	$19,127,676	$10,000
Flood	$5,000,000	$10,000
Earthquake	$5,000,000	$10,000
Equipment Breakdown	Included	$10,000

REMARKS (Including Special Conditions)

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

ADDITIONAL INTEREST

NAME AND ADDRESS
Town of Castle Rock, UMB, N.A. , the Trustee
100 N. Wilcox St.
Castle Rock, CO 80104

☒ ADDITIONAL INSURED ☐ LENDER'S LOSS PAYABLE ☐ LOSS PAYEE
☐ MORTGAGEE ☐

LOAN #

AUTHORIZED REPRESENTATIVE

David J Hop

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PZU01

EXHIBIT 4

TOWN OF CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER
CONSTRUCTION DOCUMENTS

TOWN OF CASTLE ROCK

CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

Construction Documents

11/21/2025

AEC PROJECT NUMBER
20611004000

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SHEET NUMBER	SHEET NAME
00 GENERAL	
G-001	COVER SHEET
G-002	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
G-003	ADA COMPLIANCE AND ACCESSIBILITY
G-011	ACCESSIBILITY PLANS
G-004	CODE ANALYSIS & LIFE SAFETY PLANS
G-005	PARTITION TYPES
G-006	2018 IECC COMPLIANCE REPORT
G-007	BUILDING THERMAL ENVELOPE DIAGRAMS
01 SITE CONSTRUCTION	
1	CIVIL COVER SHEET
2	NOTES
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	CIVIL SITE PLAN
5	HORIZONTAL CONTROL AND SIGNAGE & STRIPING PLAN
6	GRADING PLAN
7	UTILITY PLAN
8	WATER LINE PLAN AND PROFILE
9	WATER LINE PLAN AND PROFILE
10	STORM SEWER PLAN AND PROFILE
11	STORM SEWER PLAN AND PROFILE
12	STORM SEWER PLAN AND PROFILE
13	STORM SEWER PLAN AND PROFILE
14	STORM SEWER PLAN AND PROFILE
15	STORM SEWER PLAN AND PROFILE
16	DETAIL SHEET - WATER AND WASTEWATER
17	DETAIL SHEET - WATER AND WASTEWATER
18	DETAIL SHEET - DETENTION
19	DETAIL SHEET - DRAINAGE
20	DETAIL SHEET - SITE
21	DETAIL SHEET - SITE
22	SIGNALIZATION GENERAL NOTES
23	SIGNALIZATION PLAN
24	OVERALL LANDSCAPE PLAN
25	LANDSCAPE ENLARGEMENT PLAN
26	LANDSCAPE ENLARGEMENT PLAN
27	LANDSCAPE PLANTING NOTES
28	LANDSCAPE DETAILS
29	IRRIGATION NOTES AND SCHEDULE
30	IRRIGATION PLANS
31	IRRIGATION DETAILS
32	IRRIGATION DETAILS
33	IRRIGATION DETAILS
34	IRRIGATION CHARTS
35	SITE PLAN LIGHTING
36	SITE PHOTOMETRIC PLAN
37	SITE LIGHTING DETAILS
02 ARCHITECTURAL	
AS1.00	ARCHITECTURAL SITE PLAN
AS1.01	ARCHITECTURAL SITE PLAN DETAILS
AS1.02	ARCHITECTURAL SITE PLAN DETAILS
A-1.00	OVERALL FLOOR PLANS
A-1.01	FIRST FLOOR PLAN - LOGISTICS
A-1.02	FIRST FLOOR PLAN - FIRE STATION
A-1.03	SECOND FLOOR PLAN - LOGISTICS
A-1.04	SECOND FLOOR PLAN - FIRE STATION
A-1.10	OVERALL REFLECTED CEILING PLANS
A-1.11	FIRST FLOOR REFLECTED CEILING PLAN - LOGISTICS
A-1.12	FIRST FLOOR REFLECTED CEILING PLAN - FIRE STATION
A-1.20	OVERALL ROOF PLAN
A-1.30	FIRST FLOOR INTERIOR FINISH PLAN - LOGISTICS
A-1.31	FIRST FLOOR INTERIOR FINISH PLAN - FIRE STATION
A-1.32	SECOND FLOOR INTERIOR FINISH PLANS
A-2.00	BUILDING ELEVATIONS
A-2.01	BUILDING ELEVATIONS
A-2.02	BUILDING ELEVATIONS
A-3.00	BUILDING SECTIONS
A-3.01	BUILDING SECTIONS
A-3.02	BUILDING SECTIONS
A-3.03	BUILDING SECTIONS
A-3.10	WALL SECTIONS
A-3.11	WALL SECTIONS
A-3.12	WALL SECTIONS

SHEET NUMBER	SHEET NAME
A-3.20	ENLARGED STAIR SECTIONS - LOGISTICS
A-3.21	ENLARGED STAIR SECTIONS - FIRE STATION
A-4.00	ENLARGED BREAK ROOM INTERIOR RINSH PLANS AND ELEVATIONS
A-4.01	ENLARGED FIRE STATION RESTROOM INTERIOR FINISH PLANS AND ELEVATIONS
A-4.02	ENLARGED FIRE STATION KITCHEN INTERIOR FINISH PLANS AND ELEVATIONS
A-4.03	ENLARGED FIRE STATION LAUNDRY INTERIOR RINSH PLANS AND ELEVATIONS
A-4.10	INTERIOR MILLWORK SECTIONS AND DETAILS
A-4.11	INTERIOR MILLWORK SECTIONS AND DETAILS
A-9.00	TYPICAL DETAILS
A-9.01	TYPICAL DETAILS
A-9.02	TYPICAL DETAILS
A-9.03	TYPICAL DETAILS
A-6.00	DOOR SCHEDULE, DOOR TYPES, AND NOTES
A-6.01	WINDOW TYPES AND NOTES
A-6.02	FF&E SPREADSHEET
A-6.10	DOOR DETAILS
A-6.11	DOOR DETAILS
A-6.20	WINDOW DETAILS
03 STRUCTURAL	
S001	GENERAL NOTES & SPECIFICATIONS
S002	SPECIAL INSPECTIONS & FIRE TRUCK LOADING
S003	TYPICAL DETAILS
S004	TYPICAL DETAILS
S005	TYPICAL DETAILS
S101.A	FOUNDATION PLAN - SOUTH
S101.B	FOUNDATION PLAN - NORTH
S201.A	FRAMING PLAN SOUTH
S201.B	FRAMING PLAN - NORTH
S202	LOW ROOF FRAMING PLAN SOUTH
S203	HIGH ROOF FRAMING PLAN
S301	STRUCTURAL ELEVATIONS
S302	STRUCTURAL ELEVATIONS
S303	STRUCTURAL ELEVATIONS
S304	STRUCTURAL ELEVATIONS
S305	STRUCTURAL ELEVATIONS
S306	STRUCTURAL ELEVATIONS
S307	STRUCTURAL ELEVATIONS
S308	BRACE FRAME ELEVATIONS & DETAILS
S309	STRUCTURAL ELEVATIONS
S310	STRUCTURAL ELEVATIONS
S311	STRUCTURAL ELEVATIONS
S401	PARTIAL FRAMING PLANS
S501	FOUNDATION DETAILS
S502	FOUNDATION DETAILS
S503	FOUNDATION DETAILS
S504	FOUNDATION DETAILS
S505	FOUNDATION DETAILS
S506	FOUNDATION DETAILS
S507	FOUNDATION DETAILS
S508	FOUNDATION DETAILS
S510	FLOOR FRAMING DETAILS
S511	FLOOR FRAMING DETAILS
S512	FLOOR FRAMING DETAILS
S520	ROOF FRAMING DETAILS
S521	ROOF FRAMING DETAILS
S522	ROOF FRAMING DETAILS
S523	ROOF FRAMING DETAILS
S524	ROOF FRAMING DETAILS
S525	ROOF FRAMING DETAILS
04 FIRE PROTECTION	
FX001	FIRE PROTECTION LEGEND
FX100	FIRE PROTECTION OVERALL FLOOR PLANS
FX001	FIRE PROTECTION DETAILS
05 PLUMBING	
P-001	PLUMBING LEGEND
PL101	WASTE & VENT SECTOR PLANS - LOGISTICS
PL102	WASTE & VENT SECTOR PLANS - FIRE STATION
PL103	WASTE & VENT SECTOR PLANS - FIRE STATION AND LOGISTICS
PL121	PLUMBING OVERALL ROOF PLAN
PP101	PRESSURE PIPING SECTOR PLANS - LOGISTICS
PP102	PRESSURE PIPING SECTOR PLANS - FIRE STATION
PP103	PRESSURE PIPING SECTOR PLANS - FIRE STATION AND LOGISTICS
PG101	PIPED GASES SECTOR PLANS - LOGISTICS
PG102	PIPED GASES SECTOR PLANS - FIRE STATION
PG103	PIPED GASES SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET NUMBER	SHEET NAME
PG121	PLUMBING OVERALL ROOF PLAN
P-901	PLUMBING DETAILS
P-902	PLUMBING DETAILS
P-903	PLUMBING DETAILS
P-904	PLUMBING DETAILS
P-001	PLUMBING DIAGRAMS
P-902	PLUMBING DIAGRAMS
P-903	PLUMBING DIAGRAMS
P-701	PLUMBING SPECIFICATIONS
P-702	PLUMBING SCHEDULES
P-703	PLUMBING SCHEDULES
06 MECHANICAL	
M-001	MECHANICAL LEGEND
MH101	HVAC SECTOR PLANS - LOGISTICS
MH102	HVAC SECTOR PLANS - FIRE STATION
MH103	HVAC SECTOR PLANS - FIRE STATION AND LOGISTICS
MH121	MECHANICAL OVERALL ROOF PLAN
MP101	MECHANICAL PIPING SECTOR PLANS - LOGISTICS
MP102	MECHANICAL PIPING SECTOR PLANS - FIRE STATION
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL DETAILS
M-504	MECHANICAL DETAILS
M-505	MECHANICAL DETAILS
M-506	MECHANICAL DETAILS
M-701	MECHANICAL SCHEDULES
M-702	MECHANICAL SCHEDULES
M-703	MECHANICAL SCHEDULES
07 ELECTRICAL	
E-001	ELECTRICAL LEGEND
ES101	ELECTRICAL SITE PLAN
EL101	LIGHTING PLANS - LOGISTICS
EL102	LIGHTING PLAN - FIRE STATION
EL103	LIGHTING PLAN - FIRE STATION AND LOGISTICS
EP101	ELECTRICAL PLAN - LOGISTICS
EP102	ELECTRICAL PLAN - FIRE STATION
EP103	ELECTRICAL PLAN - FIRE STATION AND LOGISTICS
EP104	ELECTRICAL PLAN - LOGISTICS MECHANICAL EQUIPMENT
EP105	ELECTRICAL PLAN - FIRE STATION MECHANICAL EQUIPMENT
EP121	ELECTRICAL PLAN - MECHANICAL EQUIPMENT ROOF
ET101	SPECIAL SYSTEMS SECTOR PLANS - LOGISTICS
ET102	SPECIAL SYSTEMS SECTOR PLANS - FIRE STATION
ET103	SPECIAL SYSTEMS SECTOR PLANS - FIRE STATION AND LOGISTICS MEZZANINE
FA101	FIRE ALARM SECTOR PLANS - LOGISTICS
FA102	FIRE ALARM SECTOR PLANS - FIRE STATION
FA103	FIRE ALARM SECTOR PLANS - FIRE STATION AND LOGISTICS
E-401	ENLARGED ELECTRICAL PLAN
E-501	ELECTRICAL DETAIL SHEET
E-502	ELECTRICAL DETAIL SHEET
E-601	ELECTRICAL DIAGRAMS
E-602	GROUNDING DIAGRAM
E-701	ELECTRICAL SCHEDULES
E-702	ELECTRICAL SCHEDULES
E-703	ELECTRICAL SCHEDULES
E-704	ELECTRICAL SCHEDULES
E-705	ELECTRICAL SCHEDULES
08 TELECOM	
T-001	TECHNOLOGY LEGEND
TS101	TECHNOLOGY SITE PLAN
T-101	TECHNOLOGY SYSTEMS SECTOR PLANS - LOGISTICS
T-102	TECHNOLOGY SYSTEMS SECTOR PLANS - FIRE STATION
T-103	TECHNOLOGY SYSTEMS SECTOR PLANS - FIRE STATION AND LOGISTICS
T-401	ENLARGED TECHNOLOGY PLANS
T-501	TECHNOLOGY DETAILS
T-502	TECHNOLOGY DETAILS
T-503	TECHNOLOGY DETAILS
T-601	RISER DIAGRAM
T-602	TECHNOLOGY DIAGRAMS

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REVISIONS

NO.	DESCRIPTION	DATE
1	1 Plans Resubmittal	01/15/2026

BUILDING ID: BLDG. ID

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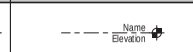
ARCHITECTURAL ABBREVIATIONS

&	AND
@	AT
AC	AIR CONDITIONER
AB	ANCHOR BOLT
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFS	ABOVE FLOOR SLAB
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE OR APPROXIMATELY
ARCH	ARCHITECTURE, ARCHITECTURAL
AVG	AVERAGE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION, INC.
BIM	BUILDING INFORMATION MODELING
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF
BUR	BUILT-UP ROOFING
CFMF	COLD FORMED METAL FRAMING
CJ	CONTROL JOINT
CL	CENTERLINE
CL. OF'S	CENTERLINE OF TENANT SEPARATION
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COLS	COLUMNS
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DR	DOOR
DS	DOWNSPOUT
DTL OR DET	DETAIL
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR FACE OF SHEATHING
EJ	EXPANSION JOINT
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATION
ENG	ENGINEER, ENGINEERING
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ERD	EMERGENCY ROOF DRAIN
ETD	ESTIMATED TRAVEL DISTANCE
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR
FD	FIRE DAMPER, FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FID	FLIGHT INFORMATION DISPLAY
FIN.	FINISH, FINISHED
FLR	FLOOR
FO	FACE OF
FOB	FACE OF BRICK
FOP	FACE OF POST
FRP	FIBER REINFORCED PANEL
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GBF	GYPSUM BOARD FURRING
GID	GATE INFORMATION DISPLAY
GL	GLASS
GP	GLOSSY PAINT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
HDW	HARDWARE
HGT OR HT	HEIGHT
HKS	HOOKS
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HVAC	HEATING VENTILATION & AIR CONDITIONING
i.e.	THAT IS, SUCH AS
ID	INSIDE DIAMETER
IFS	INTERIOR FACE OF STUD
IN.	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR
JAN.	JANITOR
JST	JOIST
JT	JOINT
KP	KICK PLATE
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LDG	LANDING
LONG.	LONGITUDINAL
LRV.	LOUVER
LT	LIGHT
LTG	LIGHTING
LVP	LUXURY VINYL PLANK
LVT	LUXURY VINYL TILE
MATL	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MFGR	MANUFACTURER
MGR	MANAGER
MIN	MINIMUM
MO	MASONRY OPENING
MOD	MODIFIED
MSC	MISCELLANEOUS
MTL	METAL
MUFID	MULTI-USER FLIGHT INFORMATION DISPLAY
N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPG	OPENING
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
OVHD	OVERHEAD
PDU	POWER DISTRIBUTION UNIT
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS
RAF	RAISED ACCESS FLOOR
RAG	RETURN AIR GRILLE
RB	RUBBER BASE
RD	ROOF DRAIN
RECEP	RECEPTION, RECEPTIONIST
REF	REINFORCING, REINFORCEMENT
REQ'D	REQUIRED
REV	REVISED, REVISION
RO	ROUGH OPENING
SC	SEALED CONCRETE
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SECT	SECTION
SF	SQUARE FEET
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SGP	SEMI-GLOSS PAINT
SHT.	SHEET
SHTS	SHEETS
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SQ IN.	SQUARE INCHES
SS	SERVICE SINK
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL, STRUCTURE
SUSP	SUSPENDED
T&G	TONGUE & GROOVE
TEL.	TELEPHONE
TG	TEMPERED GLASS
TO STL	TOP OF STEEL
TOB	TOP OF BRICK, TOP OF BEAM
TOS	TOP OF STEEL, TOP OF SLAB
TOSH	TOP OF SHEATHING
TOW	TOP OF WALL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
VCT OR VT	VINYL COMPOSITION TILE
VDC	VIRTUAL DESIGN & CONSTRUCTION
VERT	VERTICAL
VR	VIRTUAL REALITY
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WMP	WIRE MESH PARTITION
WWF	WELDED WIRE FABRIC
YD	YARD
Ø	DIAMETER

PLAN SYMBOLS

BUILDING SECTION

LEVEL HEAD



BUILDING SECTION

DETAIL SECTION

ELEVATION - EXTERIOR

ELEVATION - INTERIOR

WALL SECTION

CALLOUT HEAD & REGION

NORTH ARROW

VIEW REFERENCE

ROOM TAG

WALL TAG

CEILING TAG

REVISION TAG

DOOR TAG

MATERIAL TAG

KEYNOTE

WINDOW & STOREFRONT TAG

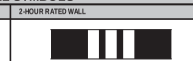
FURNITURE & EQUIPMENT TAG

TOILET ACCESSORY TAG

MATERIAL SYMBOLS

1-HOUR RATED WALL

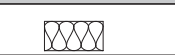
2-HOUR RATED WALL



3-HOUR RATED WALL

SMOKE RATED WALL

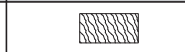
BATT INSULATION



CONCRETE

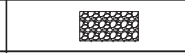
EARTH

EXPOSED & FINISHED WOOD TRIM



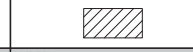
GRASS

GRAVEL



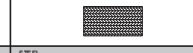
GYPSUM / PLASTER

MASONRY - BRICK

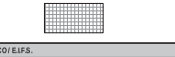


MASONRY - CONCRETE BLOCK

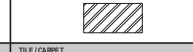
PLYWOOD



RIGID INSULATION



STEEL



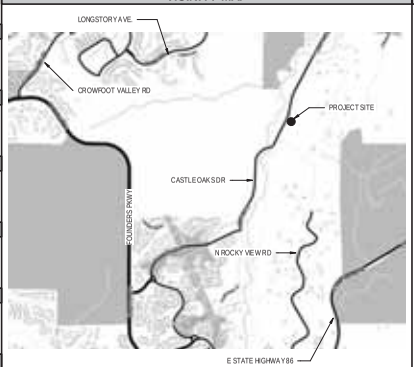
STUCCO / E.I.F.S.

TILE / CARPET

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
2. REFER TO CIVIL, LANDSCAPE, ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COORDINATION OF WORK.
3. NOTES APPEAR ON A NUMBER OF DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REFERENCE ALL ISSUED CONTRACT DOCUMENTS TO APPLY APPLICABLE NOTES, SYMBOLS AND ABBREVIATIONS TO BUILDING COMPONENTS.
4. DO NOT SCALE THE DRAWINGS.
5. VISIT THE SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS, INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND NOTIFY THE OWNER AND ARCHITECT OF ANY EXISTING CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH ANY WORK.
6. PROTECT EXISTING SITE ELEMENTS, WHICH ARE NOTED TO REMAIN, FROM DAMAGE DUE TO ALTERATION AND CONSTRUCTION OPERATIONS. CONTRACTOR SHALL REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.
7. ANY UTILITY SHUT-OFFS AS REQUIRED FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, COMMUNICATIONS, ETC., MUST BE SCHEDULED WITH THE OWNER, ARCHITECT AND UTILITY COMPANY PRIOR TO COMMENCING WORK.
8. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN.
9. UNLESS NOTED OTHERWISE, ALL FASTENERS AND FASTENING DEVICES ARE TO BE CONCEALED IN ALL FINISHED SPACES.
10. ANY PIPING, DUCTS, CONDUITS, ETC. THAT PENETRATE FIRE RATED FLOOR SLABS AND WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE INTEGRITY OF THE FLOOR OR WALL. FIRE STOP RATINGS SHALL MATCH RATINGS OF FLOORS OR WALLS WHERE PENETRATIONS OCCUR. PROVIDE FIRE DAMPERS IN DUCTS PENETRATING FIRE-RATED WALLS AND FLOORS TO MEET THE APPLICABLE BUILDING CODES.
11. ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED TESTED ASSEMBLIES, SHALL BE TIGHT AND SHALL PREVENT THE PASSAGE OF SMOKE AND FLAME.
12. WHERE THE FIRE RATINGS OF WALLS ARE NOTED ON THE DRAWINGS, THE FIRE RATING SHALL APPLY TO THE ENTIRE PERIMETER ENCLOSURE OF THE ROOM OR SPACE FOR THE FULL LENGTH AND HEIGHT OF AREAS BEING SEPARATED, EXTENDING TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK.
13. PROVIDE FIRE STOPS TO SEPARATE WALL CAVITIES FROM HORIZONTAL PLENUM AREAS AND BETWEEN FLOORS TO CLOSE OPENINGS. FIRE RATING OF STOPS SHALL MATCH THE FIRE RATING OF VERTICAL SEPARATION OR FLOOR CONSTRUCTION, WHICHEVER IS GREATER.
14. CONSTRUCTION AROUND CABINETS, PANELS AND BOXES RECESSED IN FIRE-RATED FLOOR, WALL, AND CEILING ASSEMBLIES SHALL MAINTAIN THE FIRE-RATING NOTED IN THE DRAWINGS.
15. OPENINGS IN WALL, CEILING, FLOOR AND ROOF ASSEMBLIES SHALL BE SEALED WITH PENETRATION SEALANT SYSTEMS THAT MEET OR EXCEED THE REQUIRED FIRE RATINGS.
16. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.
17. PATCH FIRE PROOFING TO MATCH EXISTING.
18. SEE MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS TO DETERMINE QUANTITIES OF DIFFUSERS, GRILLES, LIGHT FIXTURES, SPRINKLER HEADS, ETC.
19. PIPE AND COLUMN FURRING SHALL BE HELD AS CLOSE TO THE PIPING AND/OR COLUMNS AS POSSIBLE, UNLESS NOTED OTHERWISE.
20. THE EXTENT OF THE WORK SHOWN ON THE PLANS AND DETAILS REFLECTS THE BEST JUDGMENT OF THE ARCHITECT/ENGINEER. FAMILIARIZE HIMHERSELF WITH THE EXISTING CONDITIONS AND ADVISE THE ARCHITECT, IN WRITING, OF ANY SITUATION THAT WOULD NOT ALLOW HIMHER TO PROCEED ON THE BASIS OF THESE DOCUMENTS.
21. THE ARCHITECT/ENGINEER'S SELECTION OF MATERIALS AND DETAILS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFYING WITH THE MATERIAL SUPPLIERS THAT THE PROPOSED MATERIALS ARE CORRECT AND PROPER FOR THE INTENDED APPLICATION AND USE.
22. CONCRETE FILLS ABOVE STRUCTURAL SLABS SHALL BE REINFORCED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
23. UNLESS NOTED OTHERWISE, WHERE AN ARCHITECTURAL FINISHED FLOOR IS TO BE PROVIDED (REQUIRING A DEPRESSED STRUCTURAL SLAB), THE FLOOR ELEVATIONS ARE TO TOP OF FINISHED FLOOR. WHERE AN ARCHITECTURAL FINISHED FLOOR IS INTENDED FOR SURFACE APPLICATION, THE FLOOR ELEVATIONS ARE TO TOP OF STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF DEPRESSED SLABS
24. UNLESS NOTED OTHERWISE, CONCRETE PAD WITH REINFORCING SHALL BE INSTALLED UNDER ALL FLOOR MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR THE EXTENT OF EQUIPMENT PADS. COORDINATE THE SIZE, THICKNESS AND LOCATION OF THE CONCRETE PADS WITH THE EQUIPMENT INSTALLER.
25. AT THOSE PLACES WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES THE ACCEPTANCE OF THE SUBSTRATE AND EXISTING CONDITIONS AS SUITABLE FOR THE APPLICATION INTENDED.
26. CONSTRUCTION OF NEW HORIZONTAL SURFACES SHALL BE LEVEL AND FLAT AND NEW VERTICAL SURFACES SHALL BE CONSTRUCTED TO BE PLUMB, UNLESS NOTED OTHERWISE.
27. WHERE NOT INDICATED, PROVIDE BLOCKING IN WALLS, SOFFITS, AND CEILINGS RECEIVING SIGNAGE, COAT HOOKS, LOCKERS, MARKER BOARDS, AND OTHER MOUNTED ITEMS, ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
28. CONTINUOUS PERIMETER FIRE SAFING BETWEEN FLOORS SHALL BE PROVIDED AND COORDINATED WITH THE EXTERIOR WALL SYSTEMS AND ASSEMBLIES. THE FIRE SAFING'S RATING SHALL MATCH OR EXCEED THAT OF THE FLOOR CONSTRUCTION RATING.
29. CONFIRM AND FIELD VERIFY DIMENSIONS TO COORDINATE WITH OWNER PROVIDED EQUIPMENT AND FURNISHINGS.
30. SUBSTITUTIONS OF MATERIALS MAY OCCUR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND ONLY IF AUTHORIZED BY THE ARCHITECT.
31. PERFORM FIELD VERIFICATION OF ALL THE EXISTING CONDITIONS ON THE SITE. VERIFY THE LOCATION OF ALL EXISTING UTILITIES, AND COMPARE THE INFORMATION TO THE CONTRACT DOCUMENTS PRIOR TO THE COMMENCEMENT OF ALL WORK. IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
32. ALL CONTRACTOR PROVIDED MATERIALS SHALL BE NEW AND DELIVERED AND INSTALLED IN GOOD CONDITION AND WITHOUT ANY DEFECTS
33. ANY WORK NOT CONFORMING TO THESE SPECIFICATIONS WILL BE REJECTED. THE ARCHITECT OR THE OWNER MAY REJECT THE WORK. REJECTED WORK WILL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
34. CONTRACT DOCUMENTS ARE INCLUSIVE OF ALL DISCIPLINES DRAWINGS AND SPECIFICATIONS. ENSURE COORDINATION ACROSS ALL DRAWINGS.

VICINITY MAP



LOCATION MAP

RS&H

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

SHEET ID:
G-002

PROJECT STATUS:
Construction Documents

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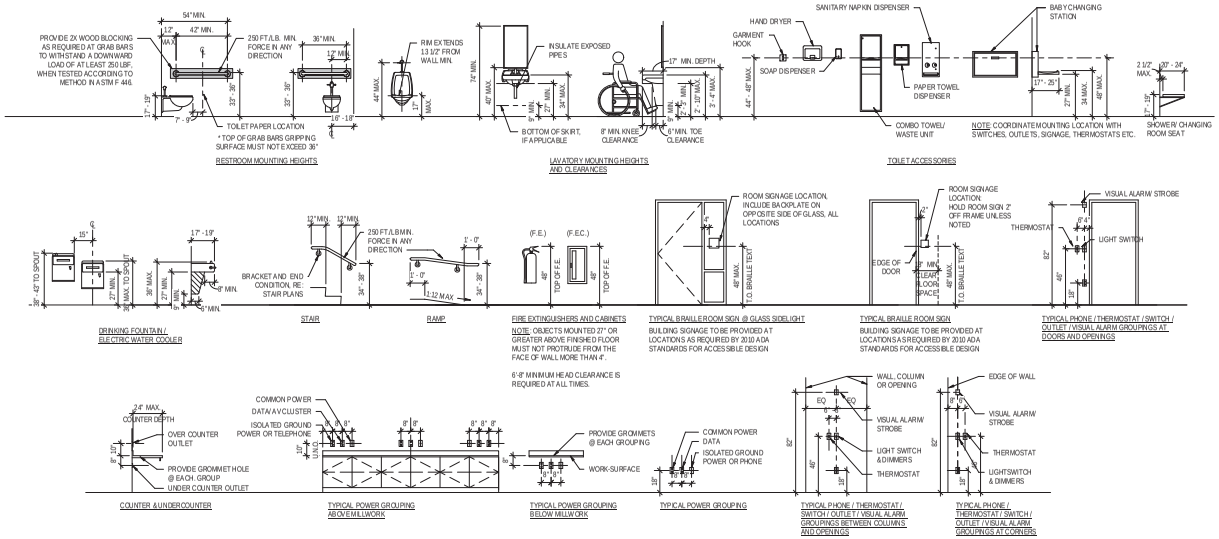
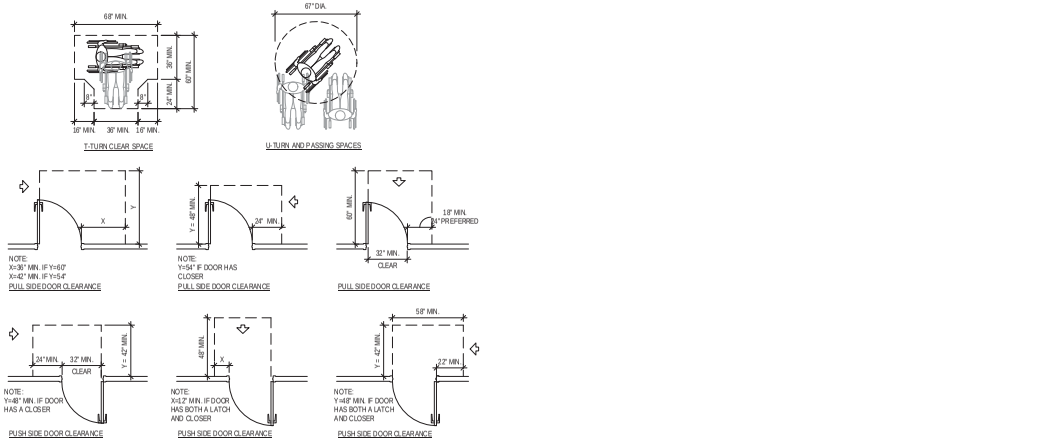


ADA MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"



ACCESSIBILITY DETAILS

SCALE: 1/4" = 1'-0"

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Colorado Springs, CO 80903
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
ADA COMPLIANCE AND ACCESSIBILITY

SHEET ID:
G-003

PROJECT STATUS:
Construction Documents

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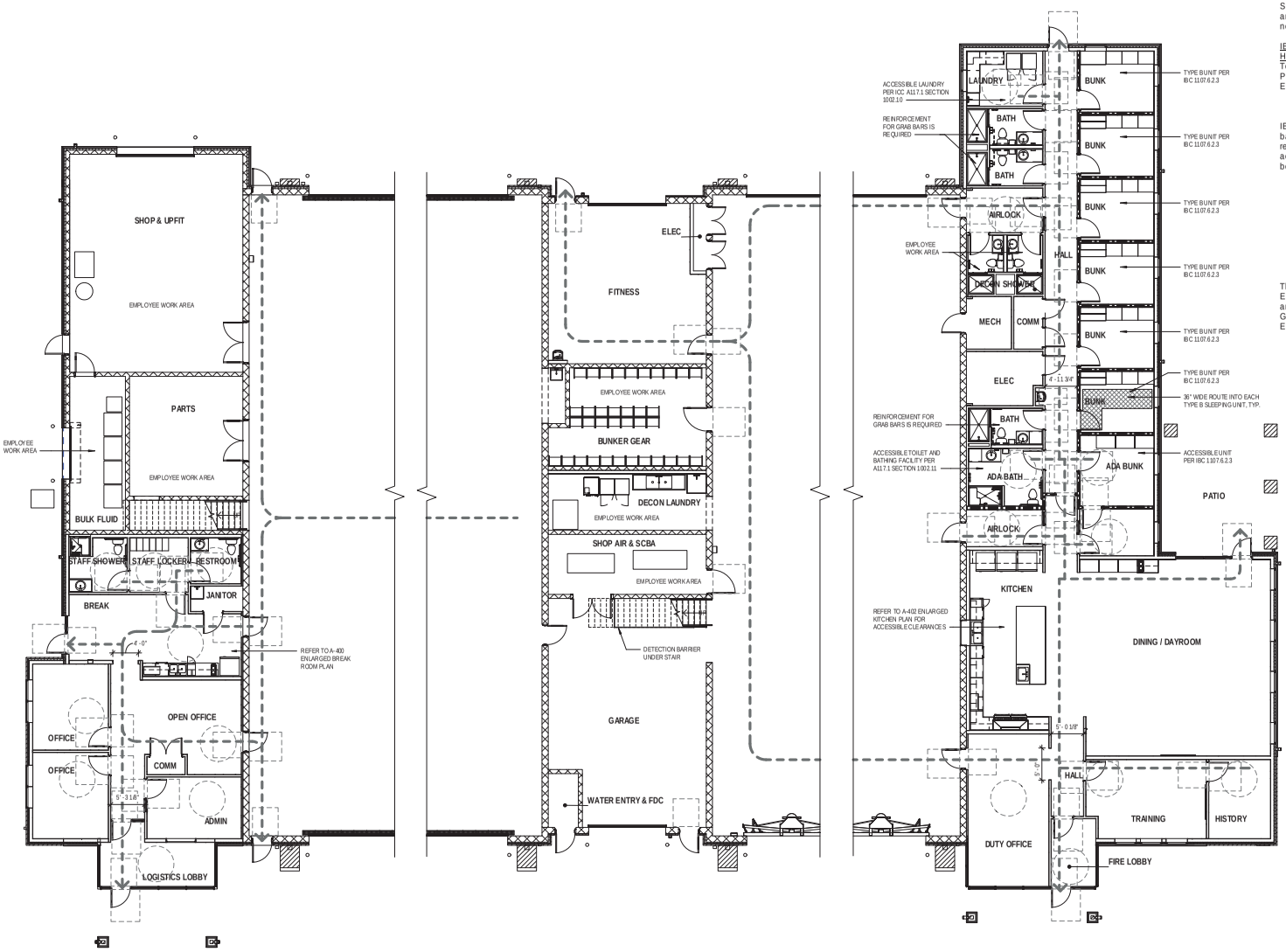

A1 ACCESSIBILITY PLAN
SCALE: 1/8" = 1'-0"

ACCESSIBILITY PLAN REQUIREMENTS:

Colorado Revised Statutes (CRS) 9-5 not applicable.

2018 IBC Group R Accessibility Requirements:

IBC Section 1104.4 Accessible Routes to Multistory Buildings:
An accessible route is not required to the second story according to IBC 1104.4 Exception 2.

Section 1107.4, Exception 4: All Accessible units, common use areas, and all public use areas are on the main level so an accessible route is not required to the second story.

IBC Section 1107.6.2.3 Group R-2 Occupancies other than Apartment Houses:
Total number of Sleeping Units = 7 Units
Per Table 1107.6.1.1, One (1) ICC A117.1 Accessible Unit is required.
Every other sleeping unit is required to be ICC A117.1 Type B Unit.
(1) Accessible Sleeping Unit = ADA Bunk 110
(6) Type B Sleeping Units

IBC Section 1109.2 Toilet and Bathing Facilities, Exception 2: Toilet and bathing rooms that serve dwelling units or sleeping units that are not required to be accessible by Section 1107 are not required to be accessible. So for the four residential bathrooms, only one is required to be accessible:

Per ICC A117.1 Section 1002.11, one toilet and bathing facility must be fully accessible in accordance with Section 603. All other toilet and bathing facilities shall have reinforcement in accordance with Section 1004.11.1.

Per ICC A117.1 Section 1004.11.3, one toilet and bathing area in a Type B Unit needs to comply with Section 1004.11.3.2 Option B. The ADA Bathroom is fully accessible and exceeds the requirements for Option B toilet and bathing rooms.

The Decon Showers (decontamination facilities) are considered Employee Work Areas as they are only used by fire station employees and only during the performance of duties. Mechanical Rooms, Bunker Gear Storage Room, and Decon / Dirty Laundry Room are also Employee Work Areas.

PLAN LEGEND
ACCESSIBLE EGRESS ROUTE
CLEARANCE

SCALE: 1/8" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
ACCESSIBILITY PLAN

SHEET ID:
G-003.1

PROJECT STATUS:
Construction Documents

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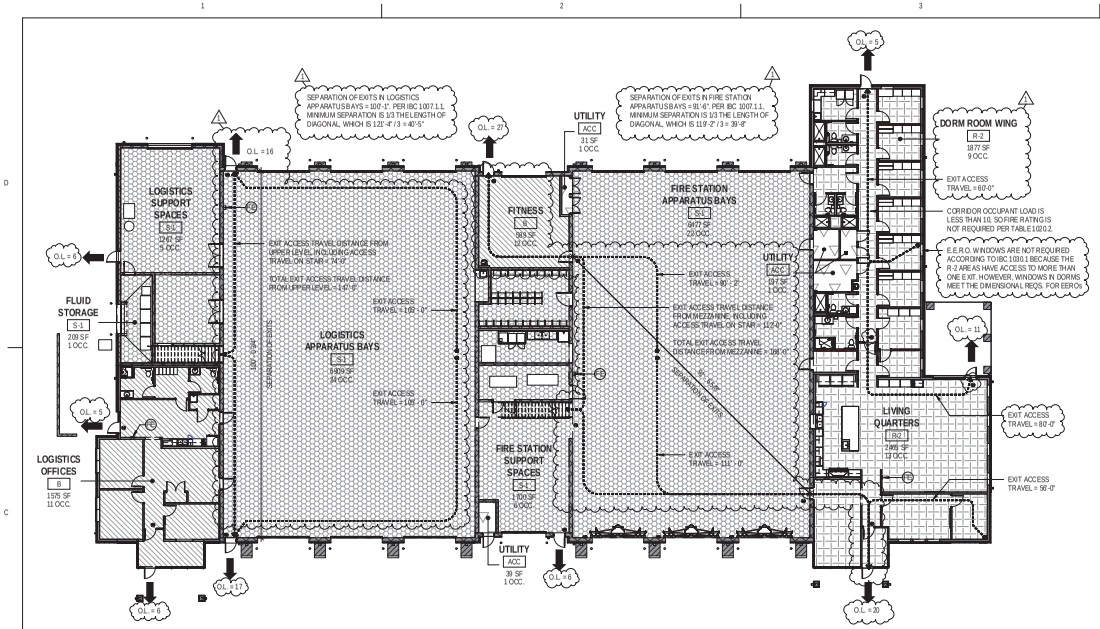
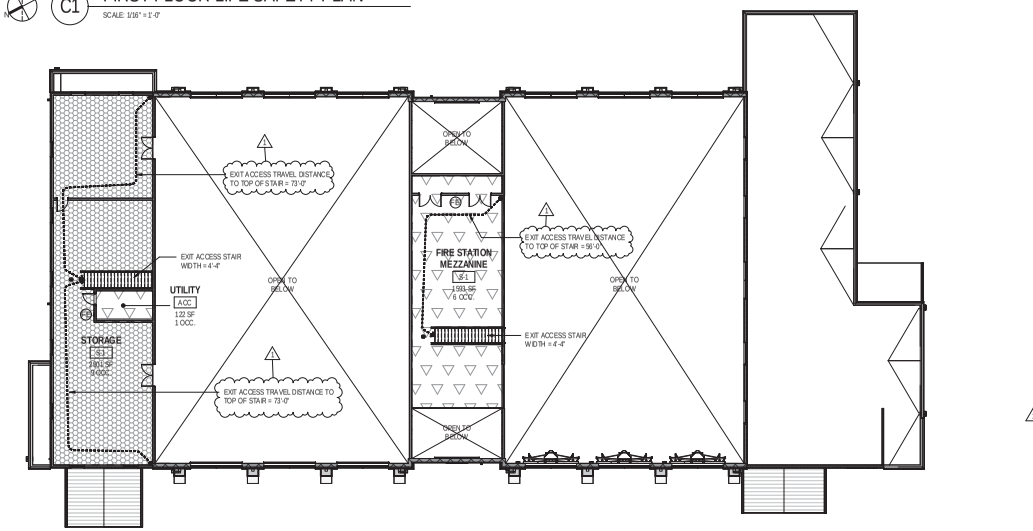


PN

C1 FIRST FLOOR LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"



PN

A1 SECOND FLOOR LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"

OCCUPANCY LEGEND

- BUSINESS
- RESIDENTIAL R-2
- STORAGE S-1
- UTILITY AND MISCELLANEOUS

CODE ANALYSIS

PROJECT DESCRIPTION

THE GENERAL SCOPE OF THE PROJECT INCLUDES VEHICLE BAYS WITH STORAGE AND SUPPORT SPACES, FIRE STATION LIVING QUARTERS, AND OFFICE SPACES AT THE LOGISTICS CENTER.

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL FIRE CODE (IFC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2009 ICC ANSI A117.1 ACCESSIBLE BY STANDARD
TOWN OF CASTLE ROCK MUNICIPAL CODE

OCCUPANCY CLASSIFICATION (IBC CHAPTER 3 & 4)

GROUP R-2 RESIDENTIAL: CONGREGATE LIVING FACILITY WITH MORE THAN 16 OCCUPANTS
GROUP B BUSINESS: OFFICE AREA
GROUP S-1 MODERATE HAZARD STORAGE: MOTOR VEHICLE REPAIR GARAGE COMPLYING WITH THE MAXIMUM ALLOWABLE QUANTITIES OF HAZARDOUS MATERIALS IN TABLE 307.7(1)

SECTION 508.3 NON SEPARATED OCCUPANCIES: ALLOWABLE HEIGHT AND AREA BASED ON THE MOST RESTRICTIVE OCCUPANCY; NO SEPARATION OF OCCUPANCIES IS REQUIRED.
EXCEPTION 2, 508.3.3: SLEEPING UNITS SHALL BE SEPARATED PER SECTION 420.

BUILDING DATA (IBC CHAPTER 5)

TOTAL GROSS BUILDING SQUARE FOOTAGE: 27,641 SF
FIRST FLOOR GROSS AREA: 23,868 SF
SECOND FLOOR GROSS AREA: 3,773 SF

ACTUAL HEIGHT OF BUILDING:
BUILDING HEIGHT IN FEET: 47'-6" OVERALL
BUILDING HEIGHT IN STORIES: 2 STORIES

ALLOWABLE BUILDING AREA (TABLE 506.2) BASED ON CONSTRUCTION TYPE VB, BUILDING EQUIPPED THROUGHOUT WITH SPRINKLER SYSTEM:
GROUP R-2: 21,000 SF (MOST RESTRICTIVE)
GROUP B: 27,000 SF
GROUP S-1: 27,000 SF

506.3.2 MINIMUM FRONTAGE DISTANCE, EQUATION 5-4
$W = (L_{s1}W_1 + L_{s2}W_2 + L_{s3}W_3 \ldots) / F$
$W = (240' \times 170' + 240' \times 90' + 130' \times 120' + 124' \times 90') / 734'$
$W = 121$ *(WHERE THEY VALUE OF W IS GREATER THAN 30 FT., A VALUE OF 30 FT. SHALL BE USED)*

506.3.3 AMOUNT OF INCREASE, EQUATION 5-5
$A = [(F/P - 0.25) \times W/30]$
$A = [(734/73 - 0.25) \times 30/30]$
$A = 0.75$

506.2.4 MIXED OCCUPANCY, MULTISTORY BUILDINGS, EQUATION 5-3
$A_a = [A \times (NS \times i)]$
$A_a = [21,000 \times (7,000 \times 0.75)]$
$A_a = 26,250$ SF ALLOWABLE AREA per STORY

ALLOWABLE BUILDING HEIGHT (TABLE 504.3 & TABLE 504.4) BASED ON CONSTRUCTION TYPE VB, BUILDING EQUIPPED THROUGHOUT WITH SPRINKLER SYSTEM:
GROUP R-2: 3 STORIES, 60 FT.
GROUP B: 3 STORIES, 60 FT.
GROUP S-1: 2 STORIES, 60 FT. (MOST RESTRICTIVE)

THE BUILDING IS FULLY SPRINKLERED PER SECTION 903.3.1.1 AND NFPA 13.

CONSTRUCTION TYPE & FIRE RESISTIVE REQUIREMENTS

SECTION 601: CONSTRUCTION CLASSIFICATION IS TYPE V-B
(THE STRUCTURE AND NONBEARING WALLS ARE PRIMARILY OF NON-COMBUSTIBLE STEEL AND MASONRY. EXTERIOR AND INTERIOR LOAD-BEARING METAL STUD WALLS ARE SHEATHED WITH NON-FIRE RETARDANT TREATED WOOD SHEATHING, THUS THE OVERALL CONSTRUCTION CLASSIFICATION IS V-B)

SECTION 420 & 708: WALLS SEPARATING SLEEPING UNITS SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708. FIRE PARTITION RATING IS 1/2 HOUR WITH SPRINKLERS PER 708.3(2).

SECTION 1020.1: CORRIDOR FIRE RESISTANCE RATING PER TABLE 1020.2, GROUP R OCCUPANT LOAD SERVED BY CORRIDOR IS LESS THAN 10, SO CORRIDOR IS NOT REQUIRED TO BE RATED.

NO FIRE SEPARATION REQUIRED BETWEEN OCCUPANCIES.

FIRE PROTECTION (IBC CHAPTER 9)

THE BUILDING IS FULLY SPRINKLERED PER SECTION 903.3.1.1 AND NFPA 13.
THE BUILDING WILL CONTAIN A SMOKE ALARM SYSTEM PER SECTION 907.2.11 AND NFPA 72.
PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED PER SECTION 906.1 AND NFPA 10.
G.C. SHALL PROVIDE FIRE EXTINGUISHERS DURING CONSTRUCTION PER 2010 FFPC.

MEANS OF EGRESS (IBC CHAPTER 10)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)
GROUPS R, S-1 / RESIDENTIAL & REPAIR GARAGE: 250 FT
GROUP B / BUSINESS: 300 FT

MAXIMUM COMMON PATH OF TRAVEL FOR SPACES WITH ONE EXIT (TABLE 1006.2.1)
GROUP B, MAX. OCCUPANT LOAD OF 49: 100 FT
GROUP R-2, MAX. OCCUPANT LOAD OF 10: 125 FT
GROUP S, MAX. OCCUPANT LOAD OF 29: 100 FT

MAXIMUM EXIT ACCESS TRAVEL DISTANCE FOR STORIES WITH ONE EXIT (TABLE 1006.3.3(2))
GROUP S, MAX. OCCUPANT LOAD OF 29: 75 FT

MAXIMUM DEAD-END CORRIDOR (1020.5)
GROUP S-B, R-2, S: 50 FT

OCCUPANT LOAD (IBC SECTION 1004.1)

AREA NAME	AREA	OCCUPANCY TYPE	SF PER OCCUPANT	OCCUPANT LOAD
FITNESS	589 SF	EXERCISE ROOMS	50 SF	11.8
LOGISTICS OFFICES	1,575 SF	BUSINESS	150 SF	10.5
FIRE STATION APPARATUS BAYS	6,477 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	21.6
FLUID STORAGE	209 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	0.7
LIVING QUARTERS	2,465 SF	RESIDENTIAL	200 SF	12.3
LOGISTICS APPARATUS BAYS	6,909 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	23.0
UTILITY	197 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	0.7
LOGISTICS SUPPORT SPACES	1,267 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	4.2
FIRE STATION SUPPORT SPACES	1,700 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	5.7
UTILITY	31 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	0.1
UTILITY	39 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	0.1
DORM ROOM WING	1,877 SF	RESIDENTIAL	200 SF	9.4
STATION - 1ST FLOOR	23,868 SF			100.1
STORAGE	2,501 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	8.3
FIRE STATION MEZZANINE	1,593 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	5.3
UTILITY	122 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	0.4
2ND FLOOR	4,215 SF			14.1
Grand total: 15	27,551 SF			114.1

CODE ANALYSIS

EGRESS WIDTH CALCULATIONS (IBC SECTION 1005.1)

EGRESS STAIR WIDTH (IBC 1005.3.1): .3" PER OCCUPANT
EGRESS WIDTH PER PERSON (IBC 1005.3.2): .2" PER OCCUPANT
MINIMUM CORRIDOR WIDTH (IBC1030.3): 44"

FIRST FLOOR REQUIRED = # OF OCCUPANTS (106 O.L.) X 0.2 = 24 IN.
FIRST FLOOR PROVIDED = 324 IN.

SECOND FLOOR REQUIRED = # OF OCCUPANTS (14 O.L.) X 0.3 = 5 IN.
SECOND FLOOR PROVIDED = 52 IN.

ACCESSIBILITY (IBC CHAPTER 11, ICC A117.1 2009)

COLORADO REVISED STATUTES (CRS) 9-5 NOT APPLICABLE.

2018 IBC GROUP R ACCESSIBILITY REQUIREMENTS:
IBC SECTION 1107.6.2.3. GROUP R-2 OCCUPANCIES OTHER THAN A APARTMENT HOUSES:
TOTAL NUMBER OF SLEEPING UNITS = 7 UNITS
PER TABLE 1107.6.1.1, ONE (1) ICC A117.1 ACCESSIBLE UNIT IS REQUIRED. EVERY OTHER SLEEPING UNIT IS REQUIRED TO BE ICC A117.1 TYPE B UNIT.
(1) ACCESSIBLE SLEEPING UNIT = OFFICER DORM ROOM 110
(6) TYPE B SLEEPING UNITS

IBC SECTION 1109.2 TOILET AND BATHING FACILITIES, EXCEPTION 2: TOILET AND BATHING ROOMS THAT SERVE DWELLING UNITS OR SLEEPING UNITS THAT ARE NOT REQUIRED TO BE ACCESSIBLE BY SECTION 1107.2 ARE NOT REQUIRED TO BE ACCESSIBLE. SO FOR THE FOUR RESIDENTIAL BATHROOMS, ONLY ONE IS REQUIRED TO BE ACCESSIBLE

PER ICC A117.1 SECTION 1002.11, ONE TOILET AND BATHING FACILITY MUST BE FULLY ACCESSIBLE IN ACCORDANCE WITH SECTION 603. ALL OTHER TOILET AND BATHING FACILITIES SHALL HAVE REINFORCEMENT IN ACCORDANCE WITH SECTION 1004.11.1.

PER ICC A117.1 SECTION 1004.11.3, ONE TOILET AND BATHING AREA IN A TYPE B UNIT NEEDS TO COMPLY WITH SECTION 1004.11.3.2 OPTION B. THE ADA BATHROOM IS FULLY ACCESSIBLE AND EXCEEDS THE REQUIREMENTS FOR OPTION B TOILET AND BATHING ROOMS.

THE DECON SHOWERS (DECONTAMINATION FACILITIES) ARE CONSIDERED EMPLOYEE WORK AREAS AS THEY ARE ONLY USED BY FIRE STATION EMPLOYEES AND ONLY DURING THE PERFORMANCE OF DUTIES. MECHANICAL ROOMS, BUNKER GEAR STORAGE ROOM, AND DECON / DIRTY LAUNDRY ROOM ARE ALSO EMPLOYEE WORK AREAS.

ENERGY CODE REQUIREMENTS FOR BUILDING ENVELOPE (IECC SECTION 402)

TABLE C402.1.3 INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD
ROOF INSULATION ENTIRELY ABOVE DECK: R-30CI
MASS WALLS (GROUP R): R-13.3CI
MASS WALLS (OTHER THAN GROUP R): R-11.4CI
METAL FRAMED WALLS: R-13 + R-7.5CI
UNHEATED FLOOR SLAB ON-GRADE: R-10 FOR 2-4' BELOW
HEATED FLOOR SLAB ON-GRADE: R-15 FOR 36" BELOW + R-5 FULL SLAB

TABLE C402.1.4 OPAQUE THERMAL ENVELOPE ASSEMBLY MAXIMUM U-FACTOR, U-FACTOR METHOD
OPAQUE DOORS, NONSWINGING: 0.31 U-VALUE
OPAQUE DOORS, SWINGING: 0.37 U-VALUE
GARAGE DOOR < 1.4% GLAZING: 0.31 U-VALUE

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR
FIXED FENESTRATION: 0.38 U-VALUE
OPERABLE FENESTRATION: 0.45 U-VALUE
ENTRANCE DOORS: 0.77 U-VALUE

PLUMBING FIXTURE COUNT (IPC)

GROUP R-2 - (CONGREGATE LIVING FACILITY WITH MORE THAN 16 OCCUPANTS)
GROUP S-1 - (MOTOR VEHICLE REPAIR GARAGE)
GROUP B - (BUSINESS) GENERAL OFFICES AND FITNESS ROOM

DRINKING FOUNTAINS:

1ST FLOOR:	LOAD FACTOR:	OCCUPANTS:	TOTAL OCCUPANTS:
GROUP R-2	1 PER 100	0.23	0.54
GROUP S-1	1 PER 1000	0.076	
GROUP B	1 PER 100	0.23	

TOTAL (REQUIRED): 1
TOTAL (PROVIDED): 2

WATER CLOSETS/ URINAL:

1ST FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP R-2	1 PER 10	11	1/0.10	1.1 0/1.10
GROUP S-1	1 PER 100	38	3.8/100	0.38/0.38
GROUP B	1 PER 25 FOR FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	11.5	0.46/0.46	0.46/0.46

TOTAL (REQUIRED): 1.94 MALE, 1.94 FEMALE TOTAL (PROVIDED): 8 FAMILY/UNISEX

BATHTUBS/ SHOWERS:

1ST FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP R-2	1 PER 8	11	1.1/8	1.38/1.38

TOTAL (REQUIRED): 1.38 MALE, 1.38 FEMALE TOTAL (PROVIDED): 7 FAMILY/UNISEX

LAVATORIES:

1ST FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP R-2	1 PER 10	11	1.1/10	1.1 0/1.10
GROUP S-1	1 PER 100	38	3.8/100	0.38/0.38
GROUP B	1 PER 40 FOR FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	11.5	1.1/0.40	0.2 0/0.39

TOTAL (REQUIRED): 1.82 MALE, 1.82 FEMALE TOTAL (PROVIDED): 8 FAMILY/UNISEX

SERVICE SINKS (REQUIRED): 3 TOTAL (PROVIDED): 5

LIFE SAFETY LEGEND

SYMBOL LEGEND

- EXIT SIGN
- EXIT (O.L. = ## INDICATES OCCUPANT LOAD SERVED BY THE EXIT)
- FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- ESCAPE ROUTE TRAVEL PATH

PARTITION LEGEND

NOTE: REFER TO PARTITION TAGS ON PLANS FOR PARTITION TYPE DETAILS

- SMOKE RATED WALL SYSTEM
- 3-HOUR RATED WALL SYSTEM
- 2-HOUR RATED WALL SYSTEM
- 1-HOUR RATED WALL SYSTEM
- NON-RATED WALL SYSTEM

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REVISIONS

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1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
CODE ANALYSIS & LIFE SAFETY PLANS

SHEET ID:
G-004

PROJECT STATUS:
Construction Documents

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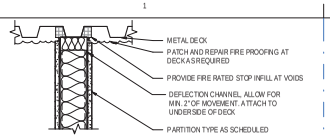
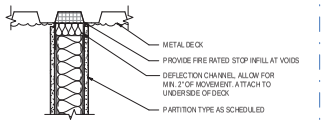
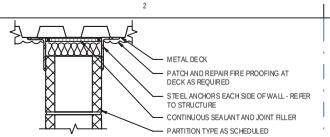


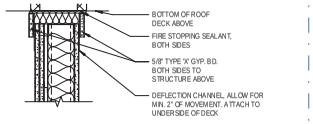
HEAD DETAIL @ STUD WALL AND MTL DECK



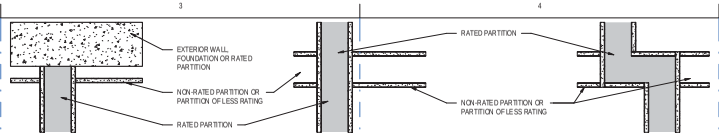
HEAD DETAIL @ STUD WALL AND MTL DECK

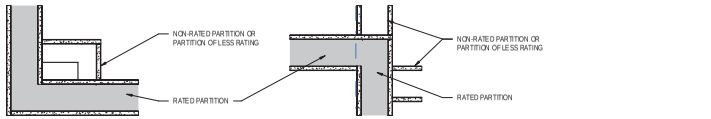


HEAD DETAIL @ CMU WALL AND MTL DECK



HEAD DETAIL @ FIRE-RATED STUD WALL AND MTL DECK





D3 RATED PARTITION CONTINUITY - HORIZONTAL

SCALE: 1 1/2" = 1'-0"

GENERAL PARTITION TYPES NOTES

GENERAL NOTES

1. SEE PLANS FOR ALL LOCATIONS OF PARTITION TYPES.
2. PROVIDE WATER-RESISTANT CORE GYPSUM WALL BOARD AT TILED OR WET LOCATIONS, INCLUDING, BUT NOT LIMITED TO: RESTROOMS, LOCKER ROOMS, SHOWER AREAS, JANITOR CLOSETS, KITCHEN AREAS.
3. SEE STRUCTURAL DRAWINGS FOR MASONRY WALL SIZE AND CONSTRUCTION.
4. COLUMNS SHOWN W/ ENCLOSURES AS PER DETAILS ON ARCHITECTURAL DRAWINGS. WHERE COLUMNS INTERSECT PARTITIONS, PROVIDE RATED OR SOUND ATTENUATED PARTITION ACROSS COLUMN ENCLOSURE, TO MAINTAIN ASSEMBLY RATING.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL BOARD PRODUCT DATA, THICKNESS, AND ADDITIONAL PERFORMANCE REQUIREMENTS.
6. REFER TO SPECIFICATIONS FOR METAL STUD SPACING AND PERFORMANCE REQUIREMENTS FOR METAL STUD GAUGES.
7. GYPSUM WALLBOARD ON PARTITIONS REQUIRING A RATING OF ONE-HOUR OR MORE MUST MEET CONDITIONS STIPULATED BY UL DESIGN NUMBER, WHETHER OR NOT WALL TREATMENT IS SCHEDULED.
8. FRICTION FIT SOUND ATTENUATION INSULATION SNUG IN PLACE BETWEEN FRAMING USED IN PARTITIONS.
9. AT NON-LOAD BEARING PARTITIONS RESTING ON CONCRETE SLABS-ON-GRADE, PROVIDE SLIP JOINT AT HEAD TRACK CAPABLE OF ALLOWING 2 INCHES OF VERTICAL MOVEMENT. REFER TO GEOTECHNICAL REPORT. PARTITION HEAD CONDITIONS MUST MAINTAIN FIRE RATINGS, AND ACOUSTIC SEALS, WHERE APPLICABLE.
10. SCHEDULE CONSTRUCTION OF WALLS ACCORDING TO PRIORITY.

• TWO HOUR FIRE & SMOKE WALL	PRIORITY 1 (HIGHEST)
• TWO HOUR FIRE WALL	PRIORITY 2
• ONE HOUR FIRE & SMOKE WALL	PRIORITY 3
• ONE HOUR FIRE WALL	PRIORITY 4
• NON-RATED WALL	PRIORITY 5 (LOWEST)

PARTITION TAG

NOTE: PARTITION TAGS ARE READ LEFT TO RIGHT.

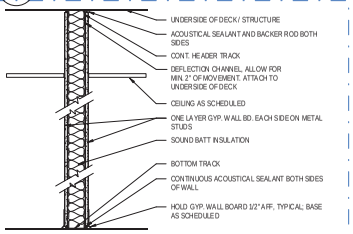
1. THE FIRST SECTION IN THE TAG INDICATES THE WALL TYPE BASED ON THE PRIMARY MATERIAL OR USE OF THE PARTITION AS REFERENCED IN THE WALL TYPE SCHEDULE'S FIRST TWO COLUMNS.
2. THE SECOND SECTION IN THE TAG INDICATES THE HEAD CONDITION OF THE WALL: A = 6" ABOVE CEILING, B = 6" BELOW STRUCTURE, C = TO CEILING, D = TO DECK/STRUCTURE, P = PARTIAL HEIGHT WALL.
3. THE LAST SECTION IN THE TAG INDICATES WHETHER THE WALL ASSEMBLY IS FIRE RATED (IF APPLICABLE) AND IF SO, TO WHAT NUMERICAL HOUR RATING.

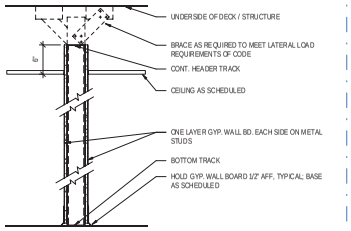
STANDARD PARTITION TAG: WALL TYPE (MATERIAL/USE) — HEAD CONDITION (e.g. B-A)

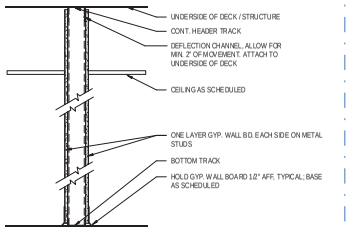
RATED PARTITION TAG: WALL TYPE (MATERIAL/USE) — NUMERICAL HOUR RATING (e.g. RS1-1)

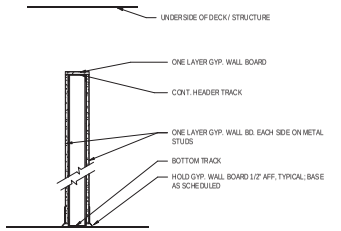
D1 HEAD DETAILS - FIRE RATED - HORIZONTAL

SCALE: 1 1/2" = 1'-0"









A#-D PARTITION TYPE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
A3-D	3 5/8" MTL STUD					ACCOUSTICAL METAL STUD PARTITION
A6-D	6" MTL STUD					ACCOUSTICAL METAL STUD PARTITION

B#-A PARTITION TYPE

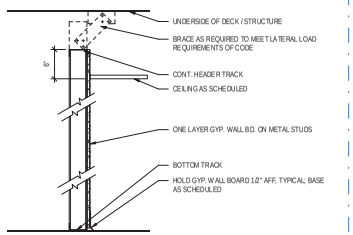
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
B3-A	3 5/8" MTL STUD					METAL STUD PARTITION
B6-A	6" MTL STUD					METAL STUD PARTITION

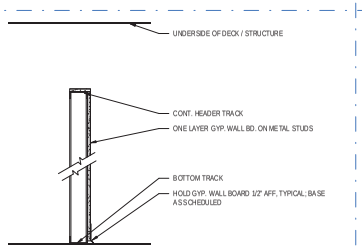
B#-D PARTITION TYPE

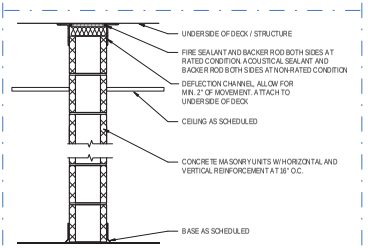
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
B3-D	3 5/8" MTL STUD					METAL STUD PARTITION
B6-D	6" MTL STUD					METAL STUD PARTITION

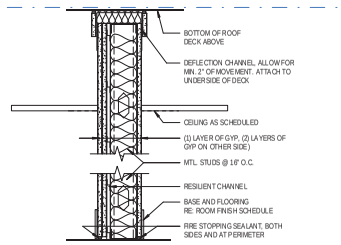
B#-P PARTITION TYPE

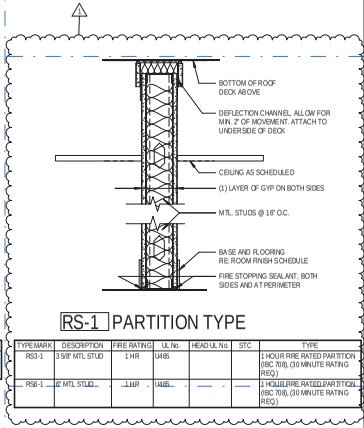
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	COMMENTS
B3-P	3 5/8" MTL STUD					METAL STUD PARTITION











F#-A PARTITION TYPE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
F2-A	2 1/2" MTL STUD					METAL STUD FURRING PARTITION
F3-A	3 5/8" MTL STUD					METAL STUD FURRING PARTITION
F6-A	6" MTL STUD					METAL STUD FURRING PARTITION

F#-P PARTITION TYPE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	COMMENTS
F6-P	6" MTL STUD					METAL STUD FURRING PARTITION

M#-D PARTITION TYPE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
M8-D	8" CMU					CMU MASONRY WALL
M12-D	12" CMU					CMU MASONRY WALL

RC-1 PARTITION TYPE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
RC3-1	3 5/8" MTL STUD	1 HR	U465			1 HOUR FIRE RATED PARTITION (IBC 708), (30 MINUTE RATING REQ.)

RS-1 PARTITION TYPE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
RS3-1	3 5/8" MTL STUD	1 HR	U465			1 HOUR FIRE RATED PARTITION (IBC 708), (30 MINUTE RATING REQ.)
RS6-1	6" MTL STUD	1 HR	U465			1 HOUR FIRE RATED PARTITION (IBC 708), (30 MINUTE RATING REQ.)

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7093
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
PARTITION TYPES

SHEET ID:
G-005

PROJECT STATUS:
Construction Documents

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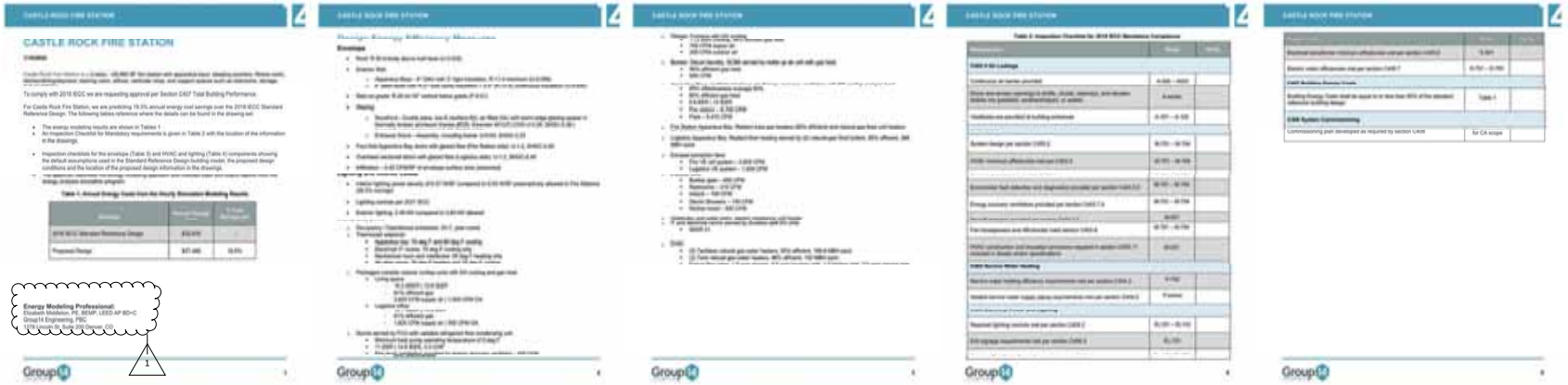

RS&H

102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7093
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
2018 IECC Compliance Report

SHEET ID:
G-006

PROJECT STATUS:
Construction Documents

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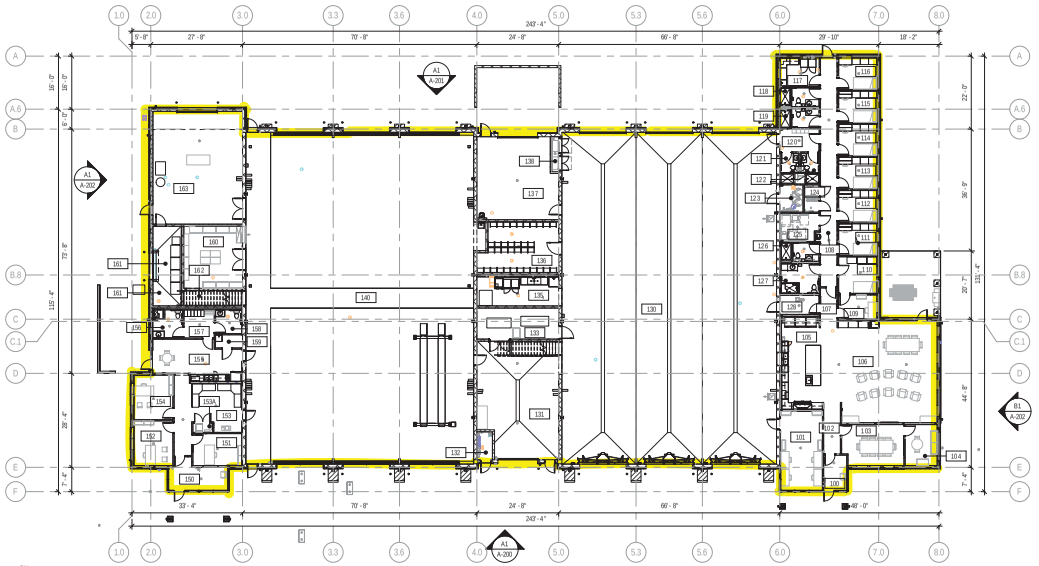
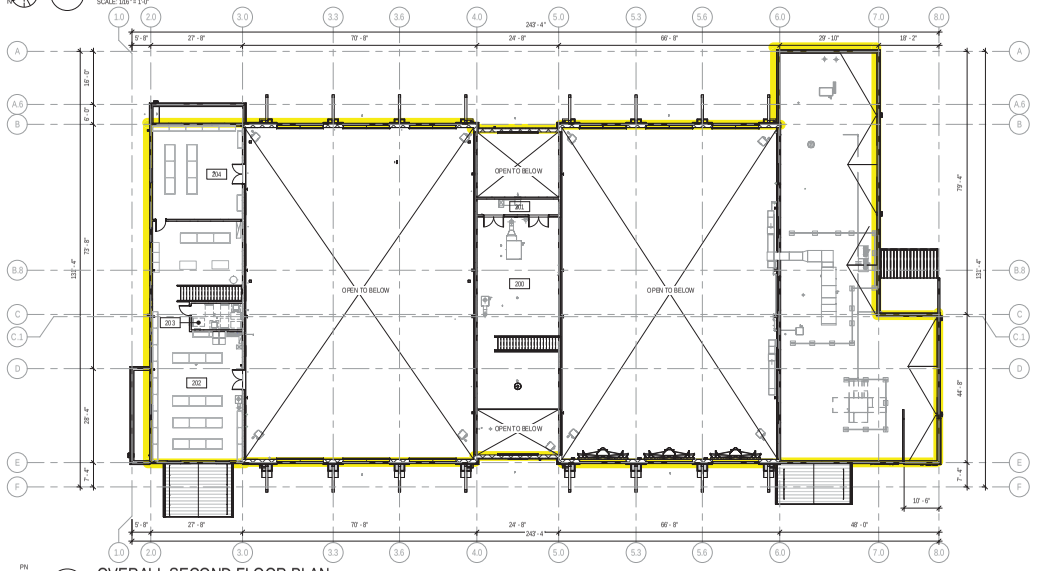


C1 OVERALL FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"



A1 OVERALL SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0"

A1 SECTION AT LOGISTICS MEZZANINE AND OFFICES - WEST TO EAST

C1 SECTION - NORTH TO SOUTH

RS&H

102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	12/26/2025

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
BUILDING THERMAL ENVELOPE DIAGRAM

SHEET ID:
G-007

PROJECT STATUS:
Site Construction Documents

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PUBLIC IMPROVEMENT CONSTRUCTION PLANS

CASTLE ROCK FIRE STATION 156 AND LOGISTICS

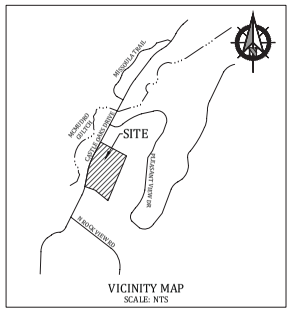
TRACT B-2-D, 8TH AMENDMENT TO THE VILLAGES AT CASTLE ROCK, 2ND AMENDMENT-LIBERTY VILLAGE PORTION LOCATED IN THE WEST HALF OF SECTION 29, TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE 6TH PM

TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, COLORADO

TOWN OF CASTLE ROCK PROJECT NO. CD25-0065

TOWN OF CASTLE ROCK COVER SHEET AND GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TOWN OF CASTLE ROCK (TCR) MUNICIPAL CODE, TCR TECHNICAL MANUALS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE TECHNICAL MANUAL OR ANY APPLICABLE STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.
3. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TOWN AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOURS NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING OR WATER CUSTOMERS. IF THE TIE-IN WILL DISRUPT UTILITY SERVICE, THEN CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE CRITERIA AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ONSITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE TCR CONSTRUCTION INSPECTOR IMMEDIATELY.
9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD UNLESS SPECIFICALLY STATED OTHERWISE.
10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (TOWN, COUNTY OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR AS DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OR RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE AND AVAILABLE TO THE TCR CONSTRUCTION INSPECTOR AT ALL TIMES.
13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
14. ALL INITIAL SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) PLAN PRIOR TO ANY EARTH-DISTURBING ACTIVITY. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED INEFFECTIVE OPERATING CONDITION AT ALL TIMES. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO CONSTRUCTION GENERAL PERMIT FOR STORMWATER DISCHARGES.
15. THE CONTRACTOR SHALL PROVIDE AN ACTION PLAN IMMEDIATELY FOLLOWING THE PRE-CONSTRUCTION MEETING DETAILING SUFFICIENT MEANS TO MITIGATE DUST ON SITE DURING OVERLOT GRADING, ROCK CRUSHING OR OTHER EARTHWORK ACTIVITIES. IF THE CONTRACTOR FAILS TO CONTROL DUST, ALL EARTH DISTURBING ACTIVITIES SHALL BE STOPPED UNTIL SUFFICIENT MEASURES ARE TAKEN TO THE TOWN'S SATISFACTION. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO AIR QUALITY REGULATIONS FOR LAND DEVELOPMENT, AS REQUIRED.
16. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
17. THERE SHALL BE NOT SITE CONSTRUCTION ACTIVITIES ON SATURDAYS UNLESS SPECIFICALLY APPROVED BY THE TCR CONSTRUCTION INSPECTOR AND NO SITE CONSTRUCTION ACTIVITIES ON SUNDAYS OR HOLIDAYS UNLESS THERE IS PRIOR WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR.
18. NO SOLID OBJECT (EXCLUDING FIRE HYDRANTS AND TRAFFIC CONTROL DEVICES AND TRAFFIC SIGNS) EXCEEDING THIRTY (30) INCHES IN HEIGHT ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT STREET, INCLUDING BUT NOT LIMITED TO BUILDINGS, UTILITY CABINETS, WALLS, FENCES, LANDSCAPE PLANTINGS, CROPS, CUT SLOPES, AND BERMS, SHALL BE PLACED WITHIN SIGHT DISTANCE LINES AND SIGHT DISTANCE EASEMENTS.
19. THIS PROPERTY IS LOCATED WITHIN ZONE X AS PER FEMA FIRM PANEL NO. 08035C0191G DATED MARCH 16, 2016
20. BENCHMARK: ELEVATIONS ARE BASED UPON DOUGLAS COUNTY CONTROL POINT 1.009009, BEING A 3.25" ALUMINUM CAP STAMPED DOUGLAS COUNTY GIS 1.009009. ELEVATION=6289.00 NAVD88(#99).
21. BASIS OF BEARING:(GRID NAD 83) BEARINGS ARE BASED UPON THE WEST LINE OF THE NORTH WEST 1/4 OF THE SOUTH WEST 1/4 SECTION 29, T7S R66W, BEING MONUMENTED AT BOTH ENDS WITH A NO.6 REBAR AND 2" ALUMINUM CAP STAMPED RMS PLS 23515. SAID LINE BEARS S 00°04'08"E, A DISTANCE OF 1323.67 FEET PER COLORADO STATE PLANE COORDINATES.
22. TOPOGRAPHIC DESIGN MAP WAS COMPLETED FOR THE PROJECT TITLED CASTLE ROCK FIRE STATION #156 & FLEET FACILITY, PREPARED BY TRUE NORTH SURVEYING & MAPPING, LLC, DATED 5/15/2025. REFER TO THIS MAP FOR SURVEY CONTROL.
    - 22.1. HORIZONTAL DATUM (STATE PLANE COORDINATES CENTRAL AT GROUND-OPUS).
    - 22.2. GRID TO GROUND SCALE FACTOR EQUALS 0.99965466/GROUND TO GRID SCALE FACTOR EQUALS 1.000345459 (SET ON TRUE NORTH CONTROL POINT 100).
    - 22.3. ALL LAND CORNERS, PANEL POINTS AND CONTROL POINTS WERE LOCATED USING STANDARD CPS/RTK METHODS WITH A MINIMUM OF 320 EPOCHS.
    - 22.4. 3D POSITIONAL TOLERANCE=±0.20
23. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE METRO DISTRICT/HOA ON TURNING OFF THE STREETSCAPE IRRIGATION (SEASON DEPENDENT). SHOULD THE IRRIGATION BE SHUT OFF DURING REGULAR IRRIGATION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING THE STREESCAPE UNTIL IRRIGATION REPAIRS ARE COMPLETE AND THE STREETSCAPE IRRIGATION IS BACK ONLINE. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE IRRIGATION SYSTEM AND ENSURING IT IS FULLY OPERATIONAL WITH NO LEAKS AND SHALL WARRANTY ALL WORK FOR A MINIMUM PERIOD OF 1 YEAR.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL STREESCAPE LANDSCAPING AND IRRIGATION AFFECTED BY THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, IRRIGATION LINES, ELECTRICAL VALVE BOXES, IRRIGATION HEADS, MULCHING, EDGER, AND SEEDING.
25. CONTRACTOR SHALL INSTALL TREE PROTECTION AROUND ALL EXISTING STREETSCAPE TREES AND PLANTING BEDS PRIOR TO CONSTRUCTION.



VICINITY MAP
SCALE: NTS

SITE DATA	
ZONING:	LIBERTY VILLAGE 2ND AMENDMENT-PD
MAXIMUM LOT COVERAGE:	AS LIMITED BY APPLICABLE STANDARDS
MINIMUM SIDE YARD:	REQ'D: 0 / PROVIDED: 124',362'
MINIMUM FRONT YARD:	REQ'D: 0 / PROVIDED: 102'
MINIMUM REAR YARD:	REQ'D: 0 / PROVIDED: 103'
MAXIMUM BUILDING HEIGHT	50'/ PROVIDED: 47.5'
SITE:	4.925 AC (214,523 SF), GFA=27,641SF
BUILDING FOOTPRINT:	FIRE STATION/LOGISITCS: 24,655SF
PERCENT COVERAGE:	11.5%
PARKING FOR BUILDING-PROVIDED:	38 SPACES (INCLUDES 2 HC SPACES)
TOTAL PARKING REQUIRED:	FIRE STATION=9 SPACES: 1 SPACE PER "STUDIO" UNIT (7 UNITS) PLUS 1 SPACES PER 4 DWELLING UNITS (8 DWELLING UNITS) LOGISTICS=14 SPACES: 1 SPACE PER EMPLOYEE (5 EMPLOYEES) PLUS 3 SPACES PER SERVICE BAY (3 BAYS) TOTAL=23 SPACES 1 HC SPACE PER 25 SPACES

LEGEND

- PROPOSED BUILDING
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING GRATED INLET
- EXISTING LIGHT POLE
- LIGHTPOLE, SEE SITE LIGHTING PLAN FOR LAYOUT
- PROPOSED ELECTRIC TRANSFORMER
- UTILITY TESTHOLE LOCATION
- EXISTING FACILITIES TO BE DEMOLISHED
- APPROXIMATE LIMITS OF DISTURBANCE AND PAVEMENT REMOVAL. UTILITY WORK LIMITS MAY VARY FROM WHAT IS SHOWN.
- EXISTING DECIDUOUS TREE
- EX. DECIDUOUS TREE TO BE REMOVED OR RELOCATED
- EXISTING CONIFEROUS TREE
- EX. CONIFEROUS TREE TO BE REMOVED OR RELOCATED
- EXISTING OR PROPOSED PROPERTY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING CHAIN LINK FENCE
- PROPOSED FENCE OR RAILING
- EXISTING WATER LINE
- EXISTING SANITARY SEWER & FLOW DIRECTION
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- WATER SURFACE ELEVATION
- PROPOSED SANITARY SERVICE AND CLEAN OUT
- PROPOSED WATER LINE OR SERVICE AND VALVE
- PROPOSED WATER LINE, THRUST BLOCK & MJ RSTNTS
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER
- UTILITY CAP/PLUG OR INTERFACE
- PROPOSED SANITARY SEWER AND MANHOLE
- PROPOSED STORM SEWER PIPE AND MANHOLE
- PROPOSED COMBINATION INLET
- CURB & GUTTER
- PROPOSED SIDEWALK
- EXISTING SIGN
- PROPOSED SIGN

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4	OVERALL CIVIL SITE PLAN
5	CIVIL SITE PLAN
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7	OVERALL GRADING PLAN
8	GRADING PLAN
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41	SITE LIGHTING PLAN
42	SITE PHOTOMETRIC PLAN
43	SITE LIGHTING DETAILS
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47	ARCHITECTURAL SITE DETAILS SHEET

FIELD CHANGE ORDER TABLE		
FCO#	DATE	PURPOSE/DESCRIPTION

FLOODPLAIN NOTE:

1) NO FLOODPLAINS EXIST ON THE PROPERTY.

VARIANCES:

1) TCV25-0063: DETENTION BASIN OUTLET STRUCTURE ORIFICE SIZE: MINIMUM 2.5-IN DIAMETER OR 2-INCH SQUARE ORIFICE IS REQUIRED. 2" DIAMETER ORIFICE AND WELL SCREEN ARE PROPOSED.
2) TCV25-0080: UNDEVELOPED AREAS TO REMAIN UNDEVELOPED THAT WILL NOT RECEIVE WATER QUALITY OR DETENTION REQUIRE A VARIANCE REQUEST. THERE ARE AREAS WITHIN TRACT B-2-D THAT ARE UNDEVELOPED TO REMAIN UNDEVELOPED THAT WILL NOT RECEIVE WATER QUALITY OR DETENTION.

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

THESE PLANS HAVE BEEN REVIEWED BY THE TOWN OF CASTLE ROCK FOR CONCEPT ONLY. THE REVIEW DOES NOT IMPLY RESPONSIBILITY BY THE REVIEWING DEPARTMENT, THE TOWN ENGINEER, OR THE TOWN OF CASTLE ROCK FOR ACCURACY AND CORRECTNESS OF THE CALCULATIONS. FURTHERMORE, THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE TOWN FOR ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK MUNICIPAL CODE, TECHNICAL MANUALS AND/OR OTHER TOWN-APPROVED APPLICABLE STANDARDS.

PROFESSIONAL ENGINEER CERTIFICATION

I hereby affirm that these final construction plans were prepared under my direct supervision, in accordance with all applicable Town of Castle Rock and State of Colorado standards and statutes, respectively; and that I am fully responsible for all design and revisions relative to said plans.

Civil Engineer signature and stamp — Date

Jacob L McMillen, PE #56736

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

CONTACTS		
SERVICE	ENTITY	POINT OF CONTACT
WASTEWATER & WATER:	CASTLE ROCK WATER	(720) 733-6000
STORM DRAINAGE:	CASTLE ROCK WATER	(720) 733-6000
GAS:	BLACK HILLS ENERGY	(303) 217-7811
ELECTRIC:	CORE ELECTRIC	(720) 733-5488
PHONE:	CENTURY LINK	(303) 483-3800
ROADS	CASTLE ROCK PUBLIC WORKS	(720) 733-2462

ABBREVIATIONS

ASSY = ASSEMBLY		MH = MANHOLE	
BNDY = BOUNDARY		MIN = MINIMUM	
BOP = BOTTOM OF PIPE		NTS = NOT TO SCALE	
C&G = CURB & GUTTER		OD = OUTSIDE DIAMETER	
CL = CENTERLINE		PC = POINT OF HORIZONTAL CURVATURE	
CO = CLEAN OUT		PLBG = PLUMBING	
CRA = CONCRETE REVERSE ANCHOR		POC = POINT OF CONNECTION	
CR = POINT OF CURB RETURN		PP = PROPOSED	
CS = CROSS SLOPE		PROP = PROPERTY	
CTB = CONCRETE THRUST BLOCK		PT = POINT OF HORIZONTAL TANGENCY	
DIP = DUCTILE IRON PIPE		PVC = POLY VINYL CHLORIDE PIPE	
DTL = DETAIL		R = RADIUS	
EL = ELEVATION		R = RIGHT	
EOA = EDGE OF ASPHALT		RCP = REINFORCED CONCRETE PIPE	
EOC = EDGE OF CONCRETE		RD = ROOF DRAIN (STORM LINE)	
ESMT = EASEMENT		ROW = RIGHT OF WAY	
EX = EXISTING		RT = RIGHT	
FC = FACE OF CURB		QL = QUALITY LEVEL	
FES = FLARED END SECTION		SHT = SHEET	
FLG = FLANGE		SOI = SAND OIL INTERCEPTOR	
FL = FLOWLINE		SS = SANITARY SEWER	
GB = GRADE BREAK		STA = STATION	
GI = GREASE INTERCEPTOR		STD = STANDARD	
GV = GATE VALVE		TA = TOP OF ASPHALT	
HP = HIGH POINT		TB = THRUST BLOCK	
HORIZ= HORIZONTAL		TC = TOP OF CURB	
HYD = HYDRANT		TOA = TOP OF ASPHALT	
ID = INSIDE DIAMETER		TOC = TOP OF CONCRETE	
L = LEFT		TOP = TOP OF PIPE	
LT = LEFT		TYP = TYPICAL	
LF = LINEAR FEET		VC = VERTICAL CURVE	
LP = LOW POINT			
MAX = MAXIMUM			

PRE-EXCAVATION CHECKLIST

- ☐ GAS AND OTHER UTILITY LINES OF RECORD SHOWN ON PLANS.
- ☐ UTILITIES CENTRAL LOCATING CALLED AT LEAST 2 BUSINESS DAYS AHEAD.
- ☐ UTILITIES LOCATED AND MARKED.
- ☐ EMPLOYEES BRIEFED ON MARKING AND COLOR CODES.*
- ☐ EMPLOYEES TRAINED ON EXCAVATION AND SAFETY PROCEDURES FOR NATURAL GAS LINES.
- ☐ WHEN EXCAVATION APPROACHES GAS LINES, EMPLOYEES EXPOSE LINES BY CAREFUL PROBING AND HAND DIGGING.

*A.G.A./A.P.W.A. STANDARD UTILITY MARKING COLOR CODE

NATURAL GAS	YELLOW	WATER	BLUE
ELECTRIC	RED	WASTEWATER	GREEN

811 Know what's below. Call before you dig.

CIVIL ENGINEER:	OWNER:	ARCHITECT:
Kiowa Engineering Corporation	Castle Rock Fire and Rescue	RS&H
5951 Middlefield Rd, Suite 200	300 Perry Street	102 East Moreno Avenue
Littleton, CO 80123	Castle Rock, CO 80104	Colorado Springs, CO 80903
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: [illegible]
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JJM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
CIVIL COVER SHEET

SHEET ID:
1
Sheet 1 of 47

PROJECT STATUS:
Site Construction Documents

NOTE:
1. ALL TOWN OF CASTLE ROCK CD STANDARD NOTES, AS INCLUDED ON ALL SHEETS AND ON THE COVER SHEET, WILL TAKE PRECEDENCE OVER THE NON-STANDARD CD NOTES IN THE EVENT OF ANY CONFLICTING INFORMATION.

TOWN OF CASTLE ROCK STREET CONSTRUCTION NOTES:
1. ALL STREET CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WALL AS THE STREET CONSTRUCTION NOTES LISTED HERE.
2. A PAVING SECTION DESIGN, SIGN AND SEALED BY A COLORADO REGISTERED PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO THE TCR PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO ANY STREET CONSTRUCTION ACTIVITY (FULL-DEPTH ASPHALT SECTIONS ARE NOT PERMITTED AT A DEPTH GRATER THAN 8" ASPHALT). THE JOB MIX SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF ANY ASPHALT.
3. WHERE PROPOSED PAVING ADJOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT A MINIMUM DISTANCE OF 12" FROM THE EXISTING EDGE TO CREATE A CLEAN CONSTRUCTION JOINT. THE DEVELOPER SHALL BE REQUIRED TO REMOVE EXISTING PAVEMENT TO A DISTANCE WHERE A CLEAN CONSTRUCTION JOINT CAN BE MADE.
4. STREET SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RE-COMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.
5. VALVE BOXES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.

TOWN OF CASTLE ROCK SIGNAGE AND STRIPING NOTES:
1. ALL SIGNAGE AND STRIPING IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE SIGNAGE AND STRIPING NOTES LISTED HERE.
2. ALL PAINT SHALL BE 15 MIL THICK UPON INSTALLATION AND 8 MIL THICK WHEN DRY.
3. ALL PERMANENT LONGITUDINAL PAVEMENT STRIPING ON ASPHALT SURFACES (CENTERLINES, LANE LINES, BAY LINES, ETC.) SHALL BE INSTALLED USING AN APPROVED REFLECTIVE TRAFFIC PAINT OR PAVEMENT MARKING TAPE. REFLECTIVE BEADS SHALL BE APPLIED IN ACCORDANCE WITH CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND MANUFACTURER'S REQUIREMENTS. WHEN TAPE IS USED ON A ASPHALT STREET, IT SHALL BE "ROLLED" INTO THE FINAL LIFT. ON CONCRETE SURFACES TAPE SHALL BE UTILIZED WITH A CONTRASTING BLACK EDGE AND GROOVED INTO THE PAVEMENT.
4. THERMO-PLASTIC APPLICATIONS SHALL BE AS SPECIFIED IN THE PLANS AND/OR PER TOWN CRITERIA.
5. ALL SURFACES THAT ACCEPT PAINT/THERMO-PLASTIC STRIPING OR PRE-FORMED MARKINGS SHALL BE FIRST SANDBLASTED AND THOROUGHLY CLEANED PRIOR TO INSTALLATION OR STRIPING OR MARKING.
6. ALL ARROW MARKINGS SHALL BE PRE-FORMED TAPE, THERMO-PLASTIC OR EPOXY-PAINTED.
7. STOP BARS SHALL BE 90 MIL THERMO-PLASTIC.
8. ALL ROADWAY SIGNAGE SHALL CONFORM TO THE MUTCD AND/OR TOWN'S CRITERIA.
9. ALL SIGNPOSTS SHALL UTILIZE BREAKAWAY ASSEMBLIES AND FASTENERS, PER THE TCR STANDARD DETAIL.

TOWN OF CASTLE ROCK FIRE NOTES:
1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN DRIVE LANES FOR EMERGENCY VEHICLES INGRESS AND EGRESS, INCLUDING SNOW REMOVAL.
2. EMERGENCY VEHICLE ACCESS ROAD IS REQUIRED TO ALLOW ACCESS WITHIN 150' OF ALL EXTERIOR OF THE BUILDING BY AN APPROVED ROUTE.
3. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE PROVIDED WITH A SURFACE SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. ACCESS ROAD SHALL BE EITHER CONCRETE, ASPHALT, OR OTHER APPROVED ALTERNATIVE MATERIAL ACCOMPANIED WITH AN ENGINEER'S STAMP STATING THE MATERIAL WITH SUPPORT OF 75,000 POUND IMPOSED LOAD.
4. FIRE HYDRANT(S) ARE REQUIRED TO BE INSTALLED AND MADE SERVICEABLE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ONTO THE SITE AND DURING THE TIME OF VERTICAL CONSTRUCTION.
5. "NO PARKING FIRE LANE" SIGNS ARE REQUIRED IN AREAS THAT MEET THE FOLLOWING CRITERIA AND IN AREAS DESIGNATED BY THE FIRE PREVENTION BUREAU. SIGNS SHALL BE POSED ON BOTH SIDES OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS AND DRIVEWAYS LESS THAN 26 FEET WIDE. SIGN SHALL BE POSED ON ONE SIDE ONLY OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS BETWEEN 26 FEET WIDE AND 32 FEET WIDE. NO SIGNAGE IS REQUIRED FOR ACCESS ROADWAY FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS EXCEEDING 32 FEET WIDE.
6. WHEN FIRE APPARATUS ACCESS ROADS OR A WATER SUPPLY FOR FIRE PROTECTION IS REQUIRED TO BE INSTALLED, SUCH PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ONTO THE SITE AND THE BUILDING CONSTRUCTION GOING VERTICAL.
7. TRACER WIRE SHALL BE INSTALLED ON ALL FIRE SERVICE LINES AND AT ALL FIRE HYDRANTS. REFER TO TOWN OF CASTLE ROCK STANDARD DETAILS, THE WATER LINE CONSTRUCTION NOTES AND THE TRACER WIRE INSTALLATION NOTES.

TOWN OF CASTLE ROCK WATER LINE CONSTRUCTION NOTES:
1. ALL WATER LINE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE WATER LINE CONSTRUCTION NOTES LISTED HEREIN.
2. ALL WATER LINES SHALL BE: 1) DUCTILE IRON PIPE(DIP), CONFORMING TO THE REQUIREMENTS OF AWWA C150, CL350 (6"-12"), CL250 (16" AND 20"), CL200 (>24"), WITH PUSH-ON GASKETED JOINTS OR MECHANICAL JOINTS ENDS, IN CONFORMANCE WITH AWWA C11. PIPE SHALL BE CEMENT-LINED IN ACCORDANCE WITH AWWA C104, AND AN EXTERIOR COATING IN ACCORDANCE WITH C151; OR 2) PVC PIPE, CONFORMING TO AWWA C900 FOR PIPE SIZES 8" AND 12", CL305 (DR14) AND AWWA C905 FOR PIPE SIZE OF 16", CL235 (DR18). MINIMUM DISTRIBUTION MAIN SIZE SHALL BE 8". WATER LINES THAT ARE 10", 14", AND 18" IN DIAMETER ARE NOT PERMITTED.
3. WATER LINE FITTINGS SHALL BE DIP CONFORMING TO AWWA C153 OR C110 AND SHALL HAVE A PRESSURE RATING NOT LESS THAN THE PIPE. ALL FITTINGS SHALL BE MECHANICAL JOINT, UNLESS APPROVED BY CASTLE ROCK WATER.
4. ALL DIP AND FITTINGS SHALL BE ENCASED IN POLYETHYLENE TO PREVENT CORROSION. POLYETHYLENE WRAP, TAPE AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C105.
5. GATE VALVES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AWWA C509-1 AND AWWA C515-01, AS APPROPRIATE, AND SHALL BE DUCTILE IRON BODY AND BONNET, RESILIENT-SEATED WEDGE GATE, NON-RISING STEM TYPE, O-RING SEALS, AND SLIP-ON CONNECTIONS (TAPPING VALVES, WHERE ALLOWED, SHALL BE FLANGE X MJ). VALVE ENDS SHALL BE MECHANICAL JOINT, UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE VALVES SHALL BE SUITABLE FOR A WORKING PRESSURE OF 200 PSI. THEY SHALL BE CLOSED BY TURNING CLOCKWISE AND SHALL HAVE TWO-INCH SQUARE CAST IRON OPERATING NUTS WITH AN ARROW CAST IN THE NUT INDICATING THE DIRECTION OF OPENING. VALVES SHALL BE POLYETHYLENE WRAPPED IN ACCORDANCE WITH AWWA C105. THEY SHALL BE OF SUCH DESIGN AS TO MAINTAIN THE FULL AREA OF THE PIPE THROUGH THE VALVE WHEN OPEN AND SHALL BE DESIGNED TO TAKE FULL PRESSURE ON EITHER FACE. VALVE SHALL HAVE TYPE 304 STAINLESS STEEL BONNET BOLTS AND NUTS AN D TYPE 304 STAINLESS STEEL O-RING GLAND BOLTS AND NUTS. VALVES SHALL BE MANUFACTURED BY AMERICAN FLOW CONTROL, KENNEDY OR MUELLER AND SHALL HAVE THE MANUFACTURER'S NAME OR INITIAL AND THE PRESSURE RATING CAST ON THE BODY.
6. ALL FIRE HYDRANTS SHALL BE "PACER WB67-250" BY WATEROUS CO. OR "SUPER CENTURION 250" BY MULLER CO., OPENING TO THE LEFT. REFER TO TCR STANDARD DETAIL W-11.
7. ALL WATER LINES SHALL BE BURIED AN ABSOLUTE MINIMUM OF 5 FEET FROM FINAL GRADE TO THE TOP OF THE WATER MAIN. THE MAXIMUM BURY DEPTH SHALL BE 6 FEET, UNLESS ADDITIONAL DEPTH IN REQUIRED FOR UTILITY CROSSING OR OTHER CONFLICTS. WHEREVER SUCH CROSSING OR CONFLICTS OCCUR, THE TCR STANDARD DETAIL W-17 SHALL BE USED.
8. ALL WATER LINES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL W-21.
9. CONTRACTOR SHALL MAINTAIN A MINIMUM 18-INCH VERTICAL CLEARANCE AND 10-FOOT HORIZONTAL CLEARANCE EDGE-TO-EDGE BETWEEN ALL WATER LINES AND ANY OTHER PIPED UTILITIES.
10. ALL BEND, TEES, FIRE HYDRANTS AND PLUGS AT DEAD-END MAINS SHALL BE RESTRAINED FROM THRUST BY USING MEGALUG RESTRAINTS PER TCR STANDARD DETAIL W-18 IN COMBINATION WITH CONCRETE THRUST BLOCKS PER TCR STANDARD DETAIL W-22.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FIRE HYDRANTS AND VALVE BOXES TO FINISH GRADE IN ACCORDANCE WITH TCR STANDARD DETAILS W-10 AND W-11.
12. PRIOR TO CONNECTING TO THE TOWN'S EXISTING WATER SYSTEM, ALL NEW WATERLINES AND/OR SEGMENTS OF WATERLINES SHALL BE DISINFECTED, PRESSURE TESTED, AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH SECTION 450.5 OF THE TOWN OF CASTLE ROCK CONSTRUCTION METHODOLOGY AND MATERIALS MANUAL; AWWA C651-14 AND C600-5.2; AND DETAILS W-35A AND/OR W-35B. PLEASE NOTE THAT THIS DISINFECTION AND TESTING WILL BE PERFORMED WHILE THE NEW WATERLINES AND/OR SEGMENTS OF WATERLINES ARE NOT PHYSIC ALLY CONNECTED TO THE TOWN'S EXISTING WATER SYSTEM. TOWN AND CONTRACTOR SHALL FURNISH MATERIALS AS SHOWN ON DETAILS W-35A AND/OR W-35B. CONTRACTOR SHALL PERFORM ALL PROCEDURES FOR TESTING, FLUSHING AND DISINFECTING OF ALL WATER LINES. TESTING SHALL BE DONE IN THE PRESENCE OF THE TCR CONSTRUCTION INSPECTOR. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOUR NOTICE TO, AND OBTAIN APPROVAL FROM THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO DISINFECTION, PRESSURE TESTING, AND BACTERIOLOGIC AL TESTING OF ANY NEW WATERLINES AND/OR SEGMENTS OF WATERLINES.
13. DISTANCE FOR WATER LINES ARE HORIZONTAL DISTANCE FROM THE CENTER OF THE FITTING TO CENTER OF THE FITTING. THEREFORE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND FITTING DIMENSIONS.
14. ALL DOMESTIC WATER SERVICE LINES SHALL BE TYPE K COPPER INSULTED WITH POLYWRAP, FROM THE MAIN TO THE METER. THE WATER METER SHALL BE SUPPLIED BY THE TOWN AND INSTALLED BY THE CONTRACTOR. THE WATER METER WILL BE AVAILABLE FOR PICK UP AT CASTLE ROCK WATER. THE INDIVIDUAL PICKING UP THE WATER METER MUST HAVE PROOF OF A PERMIT AND MUST HAVE PAID ALL FEES ASSOCIATED WITH THE WATER METER.
15. WATER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS, FOR ALL EXCAVATION OPERATIONS, SAFETY ID THE RESPONSIBILITY OF THE CONTRACTOR.
16. WATER LINES SHALL BE ALIGNED 6 FEET OFF THE NORTH AND EAST GUTTER FLOW LINES OF PUBLIC STREETS WHEREVER POSSIBLE. SEE DETAIL W-13.
17. WHERE WATER LINE IMPROVEMENTS ARE DIFFICULT TO LOCATE ON THE SURFACE, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL PERMANENT EATER LINE MAKERS, IN ACCORDANCE WITH TCR STANDARD DETAIL W-23, OR AT THE DISCRETION OF THE TCR CONSTRUCTION INSPECTOR.
18. TRACER WIRE SHALL BE USED ON ALL DIP AND PVC WATER MAINS, AND WARNING TAPE SHALL BE PLACED 1 FOOT ABOVE ALL DIP AND PVC PIPE. REFER TO TOWN OF CASTLE ROCK STANDARD TRACER WIRE REQUIREMENTS, IN THESE GENERAL NOTES. TEST STATION SHALL BE CONSTRUCTED PER STANDARD DETAIL W-28.
19. THE MINIMUM DISTANCE BETWEEN TEES, CROSSES, VALVES, AND BENDS SHALL BE 10 FEET WHEREVER POSSIBLE.
20. MAXIMUM DEFLECTION FOR WATER MAINS SHALL NOT EXCEED ONE-HALF OF THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION OR 2.5 DEGREES, WHICHEVER IS LESS.
21. ALL RESIDENTIAL WATER SERVICE LINES SHALL BE CONSTRUCTED PERPENDICULAR TO THE FRONT PROPERTY LINE IN CONFORMANCE WITH THE TOWN OF CASTLE ROCK WATER SYSTEM DESIGN CRITERIA MANUAL AND WATER DETAILS.
22. HE MAXIM UM DEFLECTION OF DOMESTIC WATER SERVICE LINES AND IRRIGATION LINES SHALL NOT EXCEED THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION.
23. THE SIZE OF THE IRRIGATION TAP, LINE, METER AND BACKFLOW PREVENTION ASSEMBLY SHALL BE THE SAME TO A MINIMUM DISTANCE OF 10 PIPE DIAMETERS PAST THE WINTERIZATION TEE.
24. THE MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES CARRY THE SAME MATERIAL (E.G. WATER AND WATER) SHALL BE 5 FEET.
25. WHEN INSTALLING CUT IN TEES OR OTHER APPURTENANCES ON/IN AN EXISTING WATER LINE, THE PIPE MATERIAL BETWEEN THE EXISTING WATER LINE AND THE CUT IN TEE OR OTHER APPURTENANCE SHALL REMAIN CONSISTENT.
26. CONTRACTOR IS RESPONSIBLE TO PROVIDE BACKFLOW PREVENTION DOWNSTREAM OF THE METER. ACCEPTABLE BACKFLOW PREVENTION ASSEMBLIES ARE AS FOLLOW:
    26.1. COMMERCIAL PORTABLE WATER SERVICE: REDUCED PRESSURE ASSEMBLY
    26.2. RESIDENTIAL PORTABLE WATER SERVICE DOUBLE CHECK VALVE ASSEMBLY, REDUCED PRESSURE ASSEMBLY
    26.3. COMMERCIAL FIRE SERVICE: REDUCED PRESSURE DETECTOR ASSEMBLY, DOUBLE CHECK VALVE DETECTOR ASSEMBLY
    26.4. RESIDENTIAL FIRE SERVICE: REDUCED PRESSURE DETECTOR ASSEMBLY, DOUBLE CHECK VALVE DETECTOR ASSEMBLY
    26.5. COMMERCIAL AND MULTIFAMILY IRRIGATION WATER SERVICE: REDUCED PRESSURE ASSEMBLY
27. THE DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IS THE ONLY BACK FLOW PREVENTION DEVICE RATED FOR HORIZONTAL OR VERTICAL INSTALLATION.

TOWN OF CASTLE ROCK STORM DRAINAGE CONSTRUCTION NOTES:
1. ALL STORM DRAINAGE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WALL AS THE STORM DRAINAGE CONSTRUCTION NOTES LISTED HERE.
2. ALL STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP) PER ASTM C76, CL III INSTALLED WITH FLEXIBLE PLASTIC(BITUMEN) GASKETS, ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. ANY STORM DRAINAGE PIPE UNDER PROPOSED OR FUTURE TRAFFIC AREA SHALL BE RCP CL III AS A MINIMUM. RCP TO BE JACKED SHALL BE CL-V AS A MINIMUM.
3. ALL STORM DRAINAGE PIPES SHALL HAVE A MINIMUM COVER OF 24" UNLESS LOAD CALCULATIONS ARE PROVIDED. UNDER NO CIRCUMSTANCES WILL ANY PIPE HAVE LESS THAN 18" COVER FROM THE FINISH SURFACE TO THE OUTSIDE WALL OF THE PIPE.
4. ALL STORM DRAINAGE PIPES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL SD-2.
5. ALL STORM DRAINAGE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES AND IN COMPLIANCE WITH AL APPLICABLE STATE AND FEDERAL REQUIREMENTS. ALL EXCAVATION OPERATION SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON COMPLETE FINISHED SURFACE.
7. ALL STORM DRAINAGE PIPES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10' FROM ALL WATER LINES. WHERE LINES CROSS THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION.
8. ALL INLETS AND MANHOLES SHALL BE PLACED ON A MINIMUM OF 1' OF 3/4" WASH ROCK. IF ADDITIONAL SUBGRADE IS DISTURBED, EXCAVATION SHALL BE BACKFILLED WITH 3/4" WASH ROCK OR OTHER APPROVED STRUCTURAL SOIL COMPACTED TO 95% OF ASTM D698 UNLESS OTHERWISE INSTRUCTED BY THE INSPECTOR.

TOWN OF CASTLE ROCK SANITARY SEWER CONSTRUCTION NOTES:
1. ALL SANITARY SEWER CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WALL AS THE SANITARY SEWER CONSTRUCTION NOTES LISTED HERE.
2. ALL SANITARY SEWER PIPELINES SHALL BE PVC, SDR-35, IN ACCORDANCE WITH ASTM D-3034, BELL AND SPIGOT WITH ELASTOMERIC SEAL.
3. ALL SANITARY SEWER PIPELINES SHALL HAVE A MINIMUM COVER OF 5 FEET AND MAXIMUM COVER OF 20 FEET.
4. ALL SANITARY SEWER PIPELINES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL SS-8.
5. ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE CONSIDERED TO BE APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON THE COMPLETE FINISHED SURFACE AND PER TCR STANDARD DETAIL SS-3.
6. SANITARY SEWER PIPELINE SHALL BE ALIGNED 6 FEET OFF THE SOUTH AND WEST GUTTER FLOW LINES OF PUBLIC STREETS WHEREVER POSSIBLE.
7. ALL SEWER LINES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 100 FEET EDGE-TO-EDGE FROM ALL WATER LINES. WHERE LINES CROSS, THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION.
8. ALL SANITARY SEWER LINES MUST BE TESTED IN ACCORDANCE WITH SECTION 450.6 OF THE TOWN OF CASTLE ROCK CONSTRUCTION METHODOLOGY AND MATERIALS MANUAL IN PRESENCE OF A TCR CONSTRUCTION INSPECTOR.
9. ALL SANITARY SEWER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. ALL EXCAVATION OPERATION SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. SANITARY SEWER SERVICES SHALL BE CONNECTED A MINIMUM OF 5 FEET OUTSIDE OF MANHOLES WITH A WYE CONNECTION IN ACCORDANCE WITH TCR STANDARD DETAIL SS-2.
11. MINIMUM COVER FOR SANITARY SEWER SERVICE LINES SHALL BE 5 FEET AND THE MINIMUM SLOPE SHALL BE 2.0%.
12. ALL SANITARY SEWER SERVICE LINE SHALL BE CONSTRUCTED ALONG THE SHORTEST AND STRAIGHTEST ROUT POSSIBLE IN CONFORMANCE WITH THE TOWN OF CASTLE ROCK WASTEWATER SYSTEM DESIGN CRITERIA MANUAL.
13. THE MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES CARRYING THE SAME MATERIAL (E.G., WASTEWATER AND WASTEWATER) SHALL BE 5 FEET.
14. THE PLUM CREEK WASTEWATER AUTHORITY MUST APPROVE OIL AND GREASE INTERCEPTORS FOR COMMERCIAL INSTALLATIONS.
15. ALL MANHOLES SHALL BE PLACED ON A MINIMUM OF 1' OF 3/4" WASH ROCK. IF ADDITIONAL SUBGRADE IS DISTURBED, EXCAVATION SHALL BE BACKFILLED WITH 3/4" WASH ROCK OR OTHER APPROVED STRUCTURAL SOIL COMPACTED TO 95% OF ASTM D698 UNLESS OTHERWISE INSTRUCTED BY THE INSPECTOR.

TOWN OF CASTLE ROCK TRACER WIRE INSTALLATION NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT TOWN OF CASTLE ROCK STANDARD NOTES, DETAILS AND SPECIFICATION.
2. TRACER WIRE IS REQUIRED ON ALL UNDERGROUND PIPE. A MAINLINE TRACER WIRE MUST BE INSTALLED WITH ALL SERVICE LATERAL TRACER WIRES PROPERLY CONNECTED TO ENSURE FULL LOCATING CAPABILITIES FROM A SINGLE CONNECTION POINT.
3. TRACER WIRE COLORS FROM STORM SEWER, DRAIN LINES, SANITARY SEWER, AND WATER MAINS SHALL BE IN ACCORDANCE WITH AMERICAN PUBLIC WORKS ASSOCIATION (APWA) UNIFORM COLOR CODE. ALL GROUNDING WIRE SHALL BE RED OR BLACK.
4. "OPEN TRENCH" TRACER WIRE SHALL BE #8 OR #10 AWG COPPER SOLID OR #12 AWG COPPER CLAD HIGH STRENGTH WITH MINIMUM 30-MIL HDPE INSULATION THICKNESS COMPLYING WITH ASTM D-1248, AND A MINIMUM AVERAGE TENSILE BREAK LOAD OF 450 LBS.
5. TRACER WIRE SHALL BE SECURED EVERY 5 FEET TO THE TOP OF THE PIPE AND TO THE SIDES OF MANHOLES AND INLETS USING TAPE, PLASTIC TIES, OR APPROVED ADHESIVE AT 5-FOOT INTERVALS.
6. TRACER WIRE SHALL BE SECURELY BONDED TOGETHER AT ALL WIRE JOINTS WITH LOCKABLE, CORROSION PROOF, WATERTIGHT CONNECTORS SPECIFICALLY DESIGNED FOR DIRECT BURIAL, AND FILLED WITH NON-HARDENING DIELECTRIC SILICONE SEALANT.
7. ANY DAMAGE OCCURRING DURING INSTALLATION OF THE TRACER WIRE MUST BE IMMEDIATELY REPAIRED BY REMOVING THE DAMAGED WIRE AND INSTALLING A NEW SECTION OF WIRE WITH APPROVED CONNECTORS. TAPING AND.OR SPRAY COATING IS NOT ALLOWED.
8. A MINIMUM OF 2 FEET OF EXCESS/SLACK WIRE IS REQUIRED IN ALL TRACER WIRE TEST STATIONS, MANHOLES, AND INLETS AFTER MEETING FINAL ELEVATION.
9. TRACER WIRE MUST BE PROPERLY GROUNDED AT ALL DEAD ENDS (MANHOLES, INLETS, OUTFALLS, FUTURE CONNECTIONS, ETC.) USING A MAGNESIUM GROUND ROD. THE GROUND ROD WILL BE CONNECTED TO 12-OR 14-AWG COPPER-CLAD STEEL WIRE WITH 30 MIL HDPE INSULATION AND RATED FOR DIRECT BURY USE AT 30 VOLTS WITH 21% CONDUCTIVITY.
10. TEST STATIONS SHALL PROVIDE PROTECTED ACCESS FOR A DIRECT CONNECTION TO THE TRACER WIRE SYSTEM AT GROUND SURFACE.
11. TRUNK LINE TRACER WIRE SHALL BE CONTINUOUS, AND PASS AROUND THE OUTSIDE OF VALVES AND OTHER STRUCTURES ON THE NORTH OR EAST SIDE.
12. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (EXCAVATION, CONCRETE, TRAFFIC CONTROL, ETC.) AND PROVIDE A MINIMUM TWENTY-FOUR (24) HOURS' NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, TO REQUEST A TRACER WIRE INSPECTION.
13. ALL NEW TRACER WIRE INSTALLATIONS SHALL BE TESTED AND LOCATED PRIOR TO ACCEPTANCE. TESTING AND LOCATING SHALL BE PERFORMED BY THE TCR CONSTRUCTION INSPECTOR AT THE COMPLETION OF ROUGH GRADING AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO FINAL ACCEPTANCE.

TOWN OF CASTLE ROCK LANDSCAPE NOTES:
1. NON-IRRIGATED NATIVE SEED AREAS SHALL BE INSTALLED USING THE TOWN OF CASTLE ROCK GRADING EROSION AND SEDIMENT CONTROL MANUAL (GESC) STANDARD DETAIL #17.
2. NO TURF AND/OR OVERHEAD IRRIGATION ON 3:1 SLOPES.
3. NO SLOPES GREATER THAN 3:1 ARE PERMITTED.
4. TOP SOIL, IF DISTURBED SHALL BE STOCK PILED AND REUSED ON THE SITE.
5. NO MORE THAN SIXTY PERCENT OF THE TOTAL COMMERCIAL LANDSCAPE AREA SHALL INCLUDE IRRIGATED TURF GRASS.
6. NO INDIVIDUAL PLANT MAY HAVE SUPPLEMENTAL WATER DEMAND GREATER THAN 15" PER GROWING SEASON.

TOWN OF CASTLE ROCK IRRIGATION NOTES:
1. THE IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A BACKFLOW PREVENTION ASSEMBLY APPROVED BY THE TOWN OF CASTLE ROCK.
2. IRRIGATION TAP, LINE, METER AND BACKFLOW PREVENTION ASSEMBLY MUST BE THE SAME SIZE FROM THE TAP TO A MINIMUM DISTANCE OF 10 PIPE DIAMETERS PAST THE BACKFLOW PREVENTION ASSEMBLY AND WINTERIZATION TEE.
3. WATER WASTE IS NOT ALLOWED PER THE TOWN OF CASTLE ROCK'S WATER USE MANAGEMENT PLAN. THEREFORE, ALL NOZZLES ARE TO BE FINE TUNE/ADJUSTED SO THAT OVERSPRAY ONTO HARD SURFACES IS ELIMINATED.
4. IRRIGATION IS NOT PERMITTED ON 3:1 SLOPES.
5. VELOCITY SHALL NOT EXCEED 7.5 FPS THROUGH THE WATERMETER.
6. NO OVERHEAD IRRIGATION IN AREAS LESS THAN 10 FEET WIDE.
7. THERE IS TO BE NEITHER PLANT MATERIAL NOR IRRIGATION IN AREAS LESS THAN 4 FEET WIDE.

GRADING NOTES:
1. ALL EARTHWORK AND EROSION CONTROL REQUIRED OF THIS CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS AND THE TOWN STANDARDS.
2. A GEOTECHNICAL ENGINEERING REPORT WAS PREPARED FOR THE SUBJECT SITE. THE RECOMMENDATIONS INCLUDED IN THE REPORT SHOULD BE FOLLOWED DURING CONSTRUCTION UNLESS OTHERWISE NOTED. REFER TO THE REPORT FOR SOIL BORING LOGS. FOLLOWING IS INFORMATION FROM THE REPORT, THE CONTRACTOR SHALL REFER TO THE REPORT FOR REQUIREMENTS.
    2.1. REFER TO GEOTECHNICAL ENGINEERING STUDY FOR COMPACTION REQUIREMENTS.
    2.2. REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL DRAWINGS FOR COMPACTION AND EARTHWORK REQUIREMENTS FOR THE BUILDING PADS AND ADJACENT AREAS.
3. FILL SHOULD BE PLACED AND COMPACTED IN HORIZONTAL LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. THE PLACEMENT AND COMPACTION OF FILL AND BACKFILL SHOULD BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.
    3.1. FILL MATERIAL SHOULD BE PLACED IN MAXIMUM 8-INCH LOOSE LIFTS, UNLESS OTHERWISE NOTED. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SOIL TYPES AND THEIR RESPECTIVE COMPACTION RECOMMENDATIONS.
    3.2. FILL SHOULD BE COMPACTED TO 95% OR MORE OF THE MATERIALS STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) AND TO 0 TO +2% OF THE OPTIMUM MOISTURE CONTENT FOR COURSE GRAINED SOILS AND TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT FOR FINE GRAINED SOILS, UNLESS OTHERWISE NOTED.
    3.3. ON-SITE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 TO 12 INCHES BUT NO LESS THAN 8 INCHES BELOW PLANNED GRADE, MOISTURE CONDITIONED AND PROPERLY RE-COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REQUIREMENTS.
    3.4. SANDSTONE BEDROCK MATERIALS SHOULD BE SELECTIVELY GRADED AND STOCKPILED SEPARATELY FROM SILTSTONE BEDROCK AND OVERBURDEN SOIL MATERIALS. SILTSTONE BEDROCK MATERIALS MAY NOT BE USED IN BUILDING FILL PRISM CONSTRUCTION (OVER-EXCAVATED AND RECOMPACTED SOILS). POTENTIAL EARTHWORK CONTRACTORS SHOULD BE MADE AWARE THAT AS STATED, SIGNIFICANT PROCESSING AND REPROCESSING OF THE ON-SITE MATERIALS WILL LIKELY BE REQUIRED. THIS ADDITIONAL PROCESSING IS ANTICIPATED TO BE TIME SENSITIVE AND COSTLY. THE PLACEMENT OF ON-SITE FILL MATERIALS SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER, UNDER SEPARATE CONTRACT, REQUESTED BY THE OWNER. MOISTURE CONTENT AND RELATIVE COMPACTION TESTING MAY NEED TO BE CONDUCTED AT AN INCREASED FREQUENCY IN ORDER TO PROVIDE A GREATER LEVEL OF INFORMATION TO THE CONTRACTOR.
    3.5. IF IMPORTED FILL SOILS ARE USED, THEY MUST BE FREE OF ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIALS.
    3.5.1. IMPORTED MATERIAL SHOULD CONSIST OF SOILS THAT HAVE LESS THAN 55 PERCENT PASSING THE NO. 200 SIEVE AND SHOULD HAVE A PLASTICITY INDEX LESS THAN 10.
4. EXISTING UTILITIES: THE LOCATIONS OF EXISTING UTILITIES ARE BASED UPON THE BEST AVAILABLE INFORMATION, ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK. IF IT APPEARS THERE COULD BE A CONFLICT WITH ANY UTILITIES, WHETHER INDICATED ON THE PLANS OR NOT, THE CONTRACTOR IS TO NOTIFY THE ENGINEER AND OWNER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA AND SITE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THE EXISTING UTILITIES.
5. GRADING CONTOURS SHOWN ON THIS PLAN ARE TO FINAL GRADE.
6. ALL VERTICAL SPOT ELEVATIONS SHOWN ON THE GRADING PLAN ARE FLOWLINE OF CURB (FL) OR FINISH GROUND (FG), UNLESS OTHERWISE NOTED.
    6.1. GRADING ABBREVIATIONS: FL=FLOWLINE, TC=TOP OF CURB, TOC=TOP OF CONCRETE, TOA=TOP OF ASPHALT, EOC=EDGE OF CONCRETE, EOA=EDGE OF ASPHALT, HP=HIGH POINT, LP=LOW POINT, FF=FINISH FLOOR ELEVATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ADEQUATE SHORING AND/OR BRACING NECESSARY TO FACILITATE THE EXCAVATION ASSOCIATED WITH THE CONSTRUCTION OF THE WALLS, PIPELINES AND FOUNDATIONS. THE BRACING AND/OR SHORING OF EXCAVATED WALLS OR TRENCHES SHALL BE IN COMPLIANCE WITH OSHA REGULATIONS AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
8. BUILDING CONTRACTOR(S) WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
9. SIDEWALK SLOPES SHALL HAVE 1.7% MAXIMUM CROSS SLOPES (CODE ALLOWS 2.0% MAX) AND 4.7% MAXIMUM LONGITUDINAL SLOPES (CODE ALLOWS 5.0% MAX), UNLESS OTHERWISE NOTED. THE SLOPE IN THE HANDICAP PARKING SPACES AND ASSOCIATED STRIPED ISLAND SHALL BE 1.7% MAXIMUM IN ANY DIRECTION (CODE ALLOWS 2.0% MAX).
10. WHEN FREEZING TEMPERATURES MAY BE EXPECTED, DO NOT EXCAVATE TO THE FULL DEPTH INDICATED UNLESS THE FOOTING OR SLABS ARE TO BE POURED IMMEDIATELY AFTER THE EXCAVATION HAS BEEN COMPLETED. IF PLACING OF CONCRETE IS DELAYED, PROTECT THE BOTTOMS OF EXCAVATIONS FROM FROST UNTIL CONCRETE IS PLACED.
11. NO FILL MATERIAL SHALL BE PLACED, SPREAD OR ROLLED WHILE IT IS FROZEN OR THAWING OR DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IN PROGRESS IS INTERRUPTED BY HEAVY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL THE GEOTECHNICAL ENGINEER INDICATES THAT THE MOISTURE CONTENT AND DENSITY OF THE PREVIOUSLY PLACED FILL ARE AS SPECIFIED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF UNSUITABLE FILL MATERIALS TO A SUITABLE SPOIL AREA. EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. THE COST OF HAULAGE AND SPOILING OF EXCESS EXCAVATED MATERIALS SHALL BE PAID FOR AS DOCUMENTED IN THE PROJECT SPECIFICATIONS.
13. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORM WATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORM WATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT: COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION-PERMITS.
14. ALL EROSION CONTROL WILL BE DONE IN CONFORMANCE WITH THE TOWN STANDARDS. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE TOWN OR ENGINEER.
15. ALL SLOPES STEEPER THAN 4:1 SHALL REQUIRE EROSION CONTROL BLANKET, NORTH AMERICAN GREEN SC150BN DOUBLE NETTED OR EQUAL AS A TEMPORARY STABILIZATION MEASURE.
16. WATER SHALL BE USED AS A DUST PALLIATIVE AS REQUIRED AND SHALL BE INCLUDED IN THE COST FOR EARTHWORK ITEM(S).
17. STORMWATER QUALITY AND DETENTION VOLUME CERTIFICATION: THE CONTRACTOR SHALL PROVIDE A VOLUME CERTIFICATION FOR THE STORMWATER QUALITY AND DETENTION AREA, SIGNED AND SEALED BY A LICENSED PROFESSIONAL LAND SURVEYOR.
    17.1. DETENTION BASIN: AT A MINIMUM, THE SURVEY SHALL INCLUDE THE OUTLET STRUCTURE FLOWLINE IN AND OUT, ORIFICE PLATE ELEVATIONS, TOP OF OUTLET STRUCTURE/ GRATE ELEVATIONS AT FRONT, MIDDLE AND BACK; SPILLWAY ELEVATION AND WIDTH, TOP OF EMBANKMENT ELEVATION AROUND DETENTION BASIN; FOREBAY FLOWLINE AND TOP OF WALLS; LOW FLOW CHANNEL ELEVATIONS AND A SUFFICIENT AMOUNT OF GROUND ELEVATIONS WITHIN THE DETENTION AREA TO DETERMINE THE AS-BUILT VOLUME.
    17.2. REFER TO THE "DETENTION DETAIL SHEET" FOR REQUIRED DETENTION VOLUMES AND ELEVATIONS.
    17.3. THE FINAL VOLUME CERTIFICATION SHALL BE PERFORMED AFTER THE FINAL LANDSCAPING HAS BEEN INSTALLED. IT IS RECOMMENDED THAT THE VOLUME IS CHECKED BEFORE FINAL LANDSCAPING IS PERFORMED IN CASE THE VOLUME DOES NOT MEET THE REQUIRED VOLUME.
20. BENCHMARK: ELEVATIONS ARE BASED UPON DOUGLAS COUNTY CONTROL POINT 1.009009, BEING A 3.25" ALUMINUM CAP STAMPED DOUGLAS COUNTY GIS 1.009009. ELEVATION=6289.00 NAVD88(#99).
21. BASIS OF BEARING:(GRID NAD 83) BEARINGS ARE BASED UPON THE WEST LINE OF THE NORTH WEST 1/4 OF THE SOUTH WEST 1/4 SECTION 29. T7S R66W, BEING MONUMENTED AT BOTH ENDS WITH A NO.6 REBAR AND 2" ALUMINUM CAP STAMPED RMS PLS 23515. SAID LINE BEARS S 00°04'08"E, A DISTANCE OF 1323.67 FEET PER COLORADO STATE PLANE COORDINATES.

GENERAL UTILITY NOTES:
1. THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SANITARY SEWER, STORM SEWER, WATER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF PIPE.
2. ALL STORM SEWER AND SANITARY SEWER PIPE LENGTHS AND SLOPES ARE FIGURED FROM CENTER OF MANHOLE, BEND, WYE AND THE INSIDE WALL OF INLETS. PIPE LENGTHS ARE GIVEN AS A HORIZONTAL LENGTH AND ARE APPROXIMATE.
3. ALL STORM AND SANITARY SEWER PIPE BEDDING TO BE CLASS B BEDDING, UNLESS OTHERWISE NOTED.
4. RCP STORM SEWER PIPE SHALL BE CLASS III, WALL B, UNLESS OTHERWISE NOTED.
5. ALL RCP SECTIONS SHALL BE JOINED IN SUCH A MANNER THAT THE ENDS ARE FULLY ENTERED AND THE INNER SURFACES ARE REASONABLY FLUSH. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C-433. AVERAGE JOINT GAP THAT EXCEEDS 1/2 INCH SHALL BE FILLED WITH NON-SHRINK GROUT.
6. PVC STORM AND SANITARY SEWER PIPES SHALL CONFORM TO ASTM D3034 SDR 35 FOR SIZES 4-INCHES TO 15-INCHES IN DIAMETER (SOLID WALL), UNLESS OTHERWISE NOTED. GASKETS SHALL COMPLY WITH ASTM F477, CONSISTING OF A PROPERLY VULCANIZED HIGH GRADE ELASTOMERIC COMPOUND. LUBRICANTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. JOINTS SHALL BE IN CONFORMANCE WITH ASTM D3212.
7. COMPACTION OF TRENCHES SHALL BE 95% OF THE MATERIALS STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AND TO 0 TO +3% OF THE OPTIMUM MOISTURE CONTENT FOR CLAY SOILS AND -2 TO +2% OF THE OPTIMUM MOISTURE CONTENT FOR SANDY SOILS TO A MINIMUM DEPTH OF 8-INCHES, UNLESS OTHERWISE NOTED OR REQUIRED BY GEOTECHNICAL ENGINEER.
8. ALL STORM MANHOLES SHALL BE CONSTRUCTED WITH FILL CONCRETE TO THE CROWN OF THE HIGHEST TOP OF PIPE ENTERING OR EXITING THE MANHOLE. REFER TO TOWN OF CASTLE ROCK STANDARD DETAILS.
9. UTILITY INTERFACE BETWEEN SITE AND BUILDING DESIGN: INTERFACE IS 5.0-FT AWAY FROM BUILDING FACE, UNLESS OTHERWISE NOTED. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR DESIGN OF UTILITY FROM INTERFACE TO THE BUILDING. SITE UTILITY CONTRACTOR TO COORDINATE WITH BUILDING UTILITY/PLUMBING CONTRACTOR ON THE EXACT LOCATION OF UTILITIES INTO THE BUILDING PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOUR NOTICE TO, AND OBTAIN APPROVAL FROM: OPERATIONS, TOWN OF CASTLE ROCK UTILITIES DEPARTMENT, (720) 733-6000, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS.
    10.1. CONTRACTOR SHALL NOTIFY THE TOWN OF CASTLE ROCK UTILITIES DEPARTMENT OF ANY WORK THAT REQUIRES SHUTDOWN OR INTERRUPTION OF SERVICE OF EXISTING WATER MAINS THREE WEEKS PRIOR TO THE PROPOSED SHUTDOWN OR INTERRUPTION UNLESS OTHERWISE APPROVED BY THE UTILITIES DEPARTMENT.
11. FDC: THE PIPE TO THE FDC SHALL TERMINATE WITH A 5-INCH STORZ FITTING WITH PERMANENTLY ATTACHED CAP, AND A 22-30 DEGREE ELBOW TO DIRECT THE STORZ HALFWAY BETWEEN HORIZONTAL AND THE GROUND. REFER TO THE FDC DETAIL. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
    11.1. REFER TO CRFD LIFE SAFETY DIVISION GUIDELINE, FIRE DEPARTMENT CONNECTIONS (FDC) FOR REQUIREMENTS.
12. FDC AND FIRE WATER PIPE TO BE FULLY RESTRAINED.
13. PROJECT IS LOCATED IN THE BLUE PRESSURE ZONE (LIBERTY VILLAGE BLUE). EXISTING NORMAL WATER MAIN PRESSURE: 100 PSI +/- (NORMAL HGL=6486 AND MAXIMUM HGL=6508).
    13.1. FIRE FLOW TEST COMPLETED ON OCTOBER 7, 2025. STATIC PRESSURE: 97 PSI. RESIDUAL PRESSURE: 89.3 PSI.
14. ALL UTILITY CUTS WITHIN THE PUBLIC ROW ARE TO BE FILLED WITH FLOWABLE FILL, EDGE-MILL PERIMETER OF SAW-CUT, MATCH EXISTING ASPHALT DEPTH. COORDINATE WITH PUBLIC WORKS INSPECTOR.

PAVING NOTES:
1. PAVEMENT CONSTRUCTION, INCLUDING PAVEMENT DEPTHS SHALL FOLLOW THE TOWN OF CASTLE ROCK REQUIREMENTS AND RECOMMENDATIONS INCLUDED IN GEOTECHNICAL ENGINEERING REPORT FOR THE SITE.
2. ALL PAVEMENT AREAS SHOULD BEAR ON NO LESS THAN 12 INCHES OF SCARIFIED, MOISTURE CONDITIONED AND COMPACTED SOILS OR BE 12-INCHES CLEAN FILL COMPACTED TO THE LEVEL AND MOISTURE CONTENT INDICATED IN THE GEOTECHNICAL REPORT.
    2.1. MATERIAL MEETING THE CDOT REQUIREMENTS FOR GRADING SX (1/2 INCH NOMINAL) FOR TOP LIFT AND GRADING S (3/4 INCH NOMINAL) FOR THE LOWER LAYERS IS RECOMMENDED. ASPHALT CEMENT: PG 64-22 OR PG 64-28. ASPHALT CONTENT: AS PER MIX DESIGN. PERCENT AIR VOIDS: 3-1/2% TO 5%. Ndesign=75.
3. ASPHALTIC PAVEMENT WORK SHOULD MEET THE REQUIREMENTS FOR SUPERPAVE MIXTURES IN THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ASPHALTIC LEVELING AND SURFACE COURSE SHALL CORRESPOND TO SECTION 703.04 STATE OF COLORADO DIVISION OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REQUIREMENTS FOR HOT PLANT MIX BITUMINOUS PAVEMENT.
4. ASPHALT MIX DESIGNS STATING THE SUPERPAVE MIXTURE PROPERTIES, SHOULD BE SUBMITTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO VERIFY THEIR ADEQUACY. MATERIALS AND CONSTRUCTION METHODS SHOULD BE IN ACCORDANCE WITH THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 403.
5. THE AGGREGATE BASE COURSE SHOULD BE CDOT CLASS 6 PER CDOT TABLE 703-2 AND CONSTRUCTION METHODS SHOULD CONFORM TO CDOT SECTION 304. THE AGGREGATE BASE COURSE SHOULD BE COMPACTED TO A MINIMUM OF 95% OF ASTM D698.
6. ASPHALT MATERIAL SHOULD BE PLACED IN MAXIMUM 3-INCH LIFTS (2-INCH MINIMUM THICKNESS OR TWO TIMES THE AGGREGATE SIZE WHICHEVER IS GREATER) AND SHOULD BE COMPACTED TO A MINIMUM OF 92-96% MAXIMUM THEORETICAL DENSITY.
7. AFTER FINAL SUBGRADE ELEVATION HAS BEEN REACHED AND THE SUBGRADE COMPACTED, THE MOISTURE CONTENT AND DENSITY OF THE TOP 12 INCHES OF THE SUBGRADE SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER AND THE PAVEMENT SUBGRADES SHOULD BE PROOF ROLLED WITH A HEAVY PNEUMATIC-TIRED VEHICLE (I.E. A LOADED TEN-WHEEL DUMP TRUCK) WITH A MINIMUM WEIGHT OF 15 TONS. THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE PROOF ROLLING. AREAS NOT IN COMPLIANCE WITH THE REQUIRED RANGES OF MOISTURE OR DENSITY AND SUBGRADE THAT IS PUMPING OR DEFORMING EXCESSIVELY (GREATER THAN 1-INCH) SHOULD BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED. FILL AND CONSOLIDATE DEPRESSED AREAS, REMOVE UNCOMPACTED MATERIALS AND COMPACT TO 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. PAVEMENT SHOULD NOT BE PLACED ON SOFT, WET, FROZEN OR OTHERWISE UNSUITABLE SUBGRADE.

CURB & GUTTER, SIDEWALK AND CONCRETE NOTES:
1. CONCRETE FOR SITE CURB & GUTTER AND SIDEWALK SHALL BE CDOT CLASS B. CONCRETE DRAIN PANS AND PAVEMENT SHALL BE CDOT CLASS P.
2. FINISH: CURB AND GUTTER: SACK FINISH EXPOSED SURFACES. SIDEWALKS: BROOM FINISH EXPOSED SURFACES. PAVEMENT: AS SOON AS FINISHED CONCRETE HAS SET SUFFICIENTLY TO MAINTAIN A TEXTURE AND NO BLEED WATER REMAINS ON SURFACE, THE SURFACE CAN BE DRAGGED WITH A SHORT LENGTH OF DAMP BURLAP OR OTHER MATERIAL SUCH AS SYNTHETIC TURF CARPETING. AS AN ALTERNATIVE, THE SURFACE CAN BE BROOMED TO DEVELOP A SKID-RESISTANT SURFACE AND UNIFORM APPEARANCE.
3. CONTROL (CONTRACTION) AND CONSTRUCTION JOINTS: CONTROL JOINTS SHOULD SEPARATE CONCRETE PAVEMENTS INTO PANELS AS RECOMMENDED BY ACI. THE CONTROL JOINTS SHALL BE TOOLED OR SAWCUT TO A MINIMUM DEPTH OF ONE-QUARTER (1/4) OF THE TOTAL THICKNESS OF THE CONCRETE. SAWED CONTROL JOINT MUST BE DONE NO LATER THAN 24 HOURS AFTER CONCRETE IS POURED. CONSTRUCTION JOINTS SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER
    3.1. CURB & GUTTER CONTROL JOINT SPACING (3/16" WIDE) SHALL BE 10' TYPICAL (12' MAXIMUM), UNLESS SPECIFIED OTHERWISE. ADJUST SPACING LENGTH IF ADJACENT TO CONCRETE PAVEMENT SO PAVEMENT PANEL JOINT LINES WILL BE CONTINUOUS THROUGH THE C&G. PROVIDE CONSTRUCTION JOINTS 25-FT O.C. MAX IN EACH DIRECTION (UNLESS NOTED OTHERWISE).
    3.2. SIDEWALKS SHALL HAVE CONTROL JOINTS (3/16" WIDE) WITH THE JOINTS SPACED 5-FEET APART (4-FT MINIMUM, 6-FT MAXIMUM SPACING). PROVIDE CONSTRUCTION JOINTS 25-FT O.C. MAX IN EACH DIRECTION WITH SQUARE FOOTAGE LESS THAN 400 SF AND AT CURVES, TANGENTS AND CORNERS (UNLESS NOTED OTHERWISE).
    3.3. CONCRETE PAVEMENT CONTROL JOINT WIDTH: 1/16" – 1/8" FOR UNSEALED JOINTS. AT LEAST 1/4" FOR SEALED JOINTS WITH 3/8" TYPICAL.
4. EXPANSION JOINTS: INSTALL WHEN ABUTTING EXISTING CONCRETE SLABS, INLETS, FIRE HYDRANTS, POLES AND OTHER FIXED OBJECTS. TOOLED 1/4" RADIUS EDGES. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK, EXTEND FULL DEPTH OF CONTACT SURFACE, LEAVE 1/2" BELOW TOP OF PAVEMENT AND SEAL WITH 1/4" THICK POLYURETHANE JOINT SEALANT.
    4.1. CURB AND GUTTER EXPANSION JOINT SPACING: 300-FT MAX. ON STRAIGHT SECTIONS.
    4.2. SIDEWALK EXPANSION JOINT SPACING: 100-120 FOOT SPACING ON STRAIGHT SECTIONS.
5. JOINT SEALANT: BEFORE SEALING JOINTS, THE JOINT OPENING SHOULD BE THOROUGHLY CLEANED WITH COMPRESSED AIR TO REMOVE ALL FOREIGN MATTER. ALL CONTACT SURFACES OF THE JOINT SHOULD BE CLEANED TO REMOVE LOOSE MATERIAL AND SHOULD BE SURFACE DRY. SEALANT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

Know what's below. Call before you dig.

PROFESSIONAL ENGINEER CERTIFICATION

I hereby affirm that these final construction plans were prepared under my direct supervision, in accordance with all applicable Town of Castle Rock and State of Colorado standards and statutes, respectively; and that I am fully responsible for all design and revisions relative to said plans.

Civil Engineer signature and stamp — Date
Jacob I. McMillen, PE #56736

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: [illegible]
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JIM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
NOTES

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PROJECT STATUS:
Site Construction Documents

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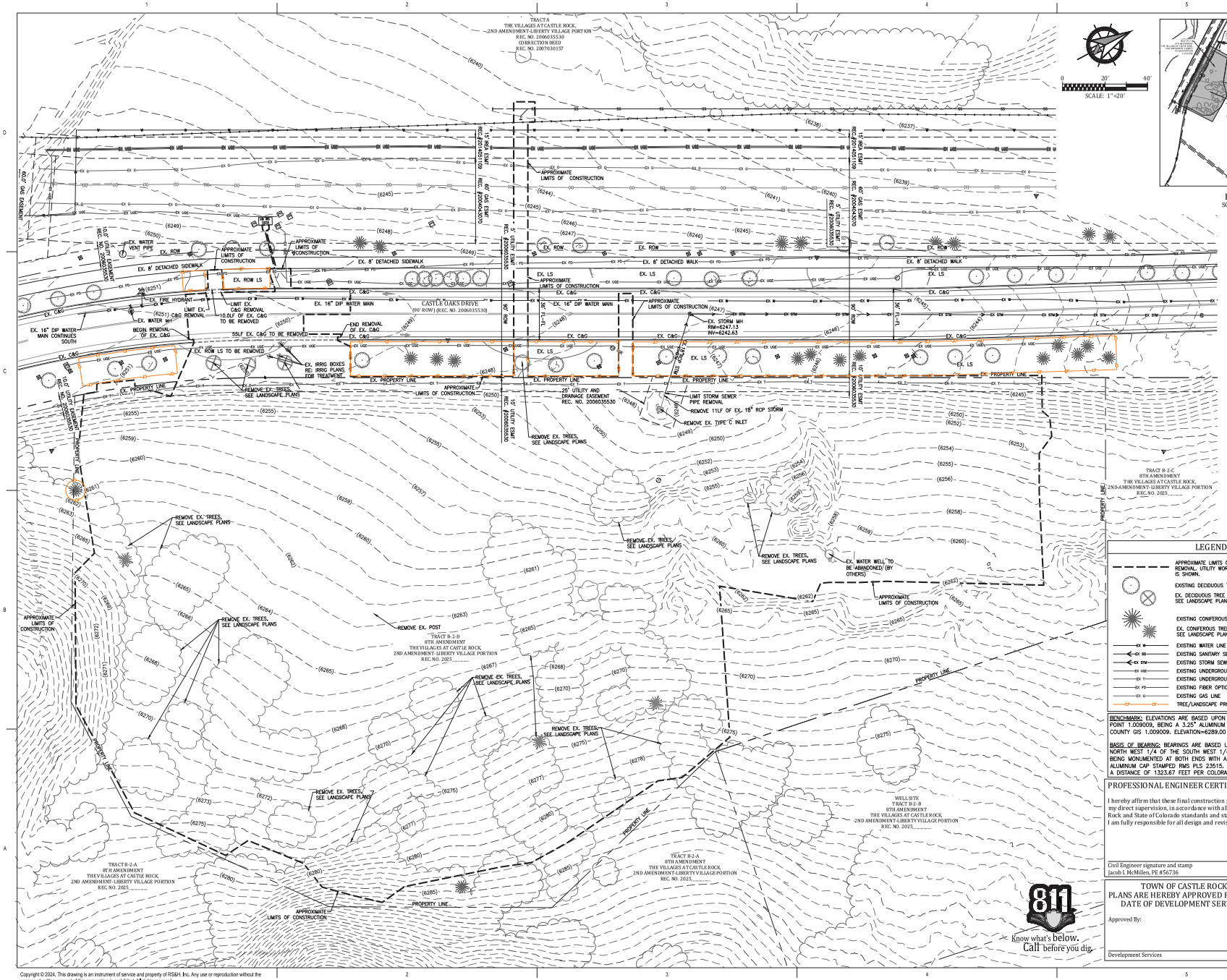

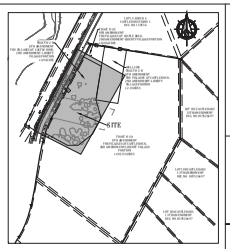

KEY MAP
SCALE: 1"=500'

LEGEND

- APPROXIMATE LIMITS OF CONSTRUCTION AND PAVEMENT REMOVAL. UTILITY WORK LIMITS MAY VARY FROM WHAT IS SHOWN.
- EXISTING DECIDUOUS TREE
- EX. DECIDUOUS TREE TO BE REMOVED OR RELOCATED SEE LANDSCAPE PLAN
- EXISTING CONIFEROUS TREE
- EX. CONIFEROUS TREE TO BE REMOVED OR RELOCATED SEE LANDSCAPE PLAN
- EXISTING WATER LINE
- EXISTING SANITARY SEWER & FLOW DIRECTION
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- TREE/LANDSCAPE PROTECTION FENCE

BENCHMARK: ELEVATIONS ARE BASED UPON DOUGLAS COUNTY CONTROL POINT 1.009009, BEING A 3.25" ALUMINUM CAP STAMPED DOUGLAS COUNTY GIS 1.009009. ELEVATION=6289.00 NAVD 88 (#99).

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Civil Engineer signature and stamp — Date
Jacob L McMillen, PE #56736

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

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102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

Kiowa Engineering Corporation
5951 Middlefield Road, Suite 200
Littleton, Colorado 80123
(303) 692-0359

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/16/2026
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JJM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET ID:
3
Sheet 3 of 47

PROJECT STATUS:
Site Construction Documents

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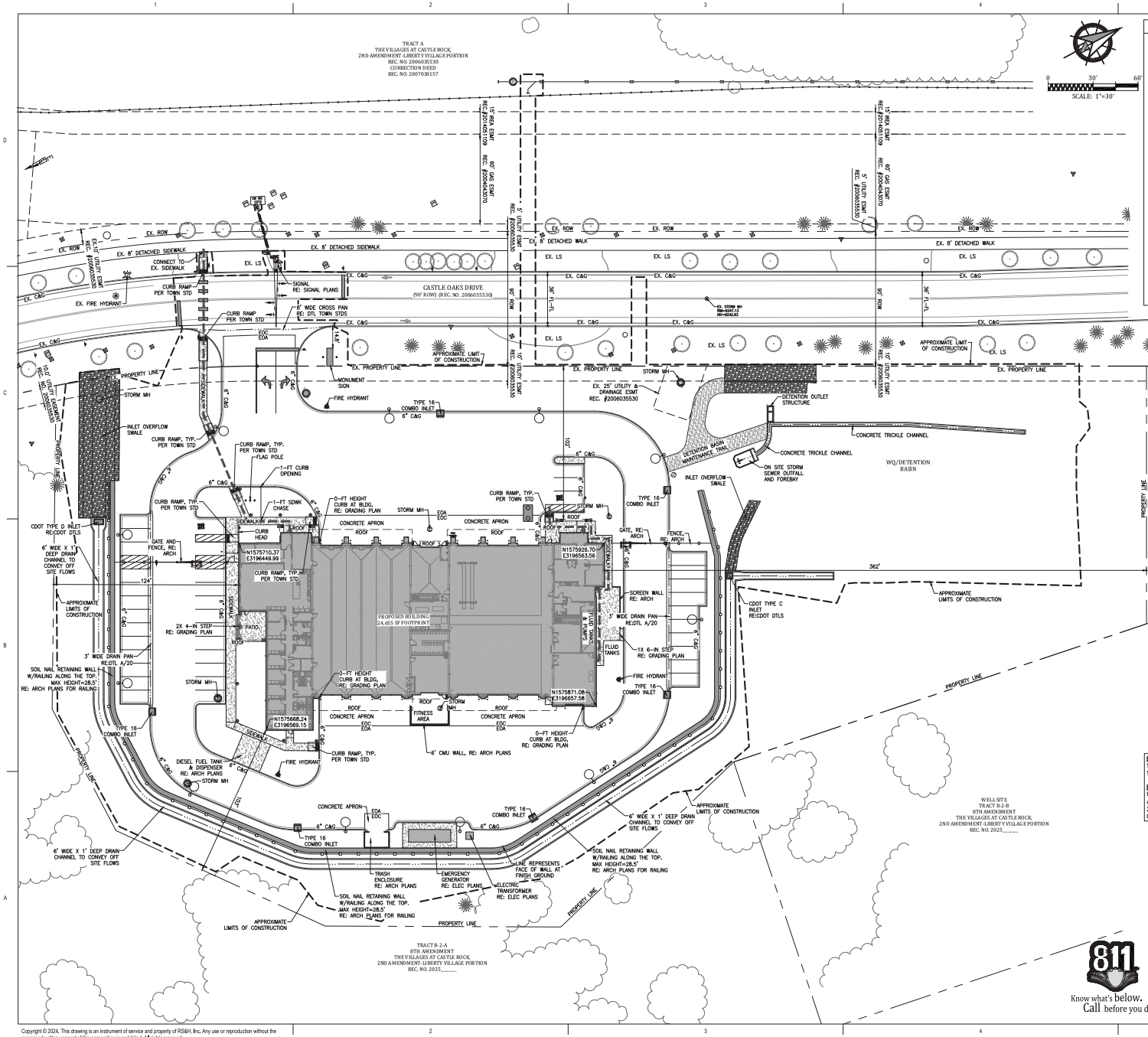

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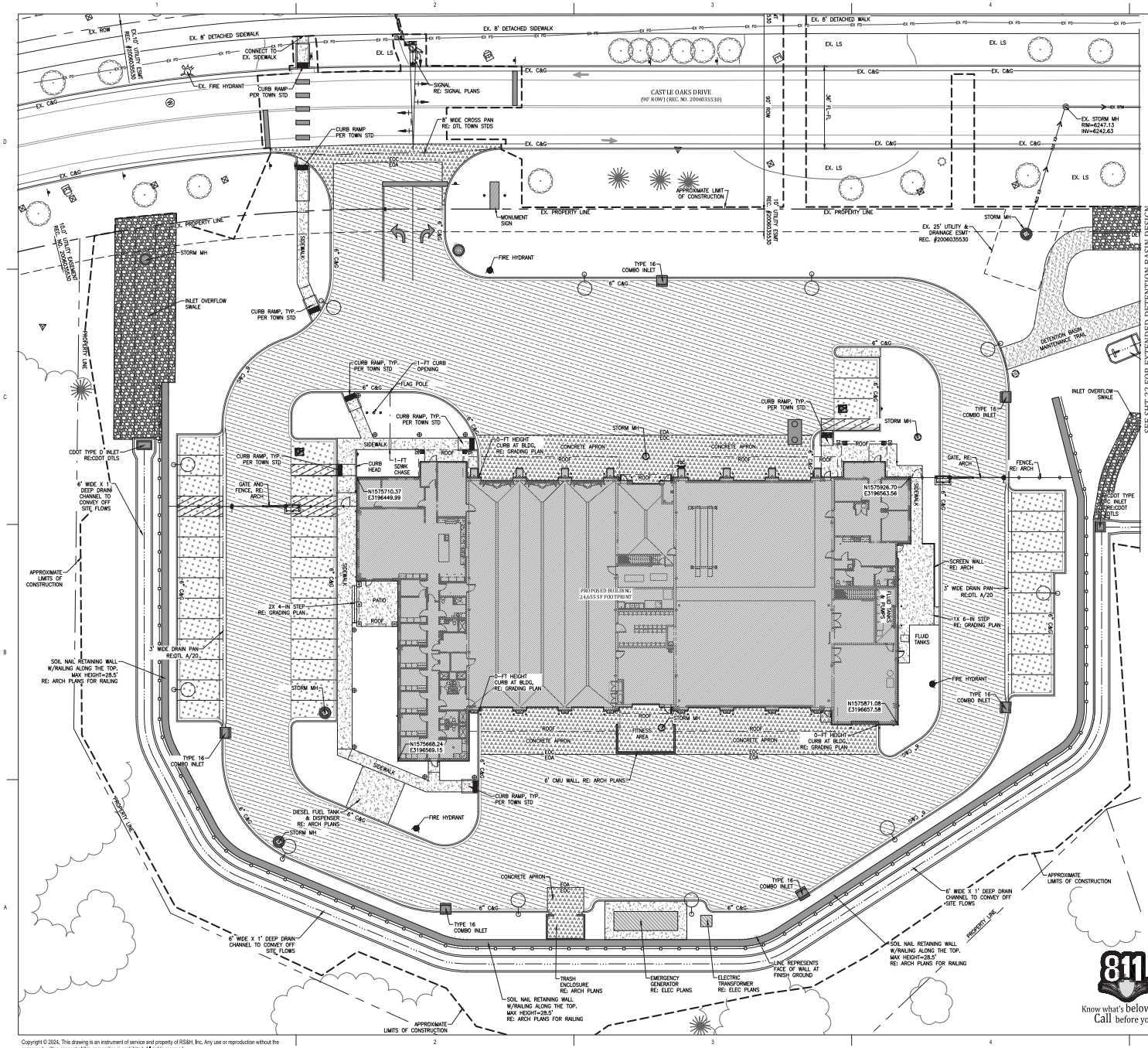
SEAL:

SHEET TITLE:
OVERALL CIVIL SITE PLAN

SHEET ID:
4
Sheet 4 of 47

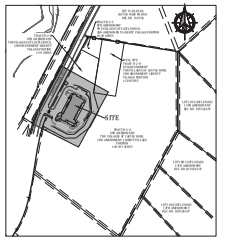
PROJECT STATUS:
Site Construction Documents



0 20' 40'
SCALE: 1"=20'

LEGEND

- PROPOSED BUILDING
- CURB SECTION — 6" CURB & GUTTER – 1' PAN, SEE DETAIL C: CARRY SECTION, S: SPILL SECTION
- SIDEWALK (6" THK CONCRETE), UNLESS OTHERWISE NOTED ON ARCH. SITE PLAN), SEE NOTES AND CURB & GUTTER, SIDEWALK AND CONCRETE NOTES. REFER TO ARCH SITE PLAN FOR JOINTING PLAN.
- CURB RAMPS TYPICAL – REFER TO DETAILS
- HANDICAP PARKING SPACE, STRIPED ISLAND AND HANDICAP PARKING SIGN – REFER TO DETAILS.
- EXISTING SIGN
- PROPOSED SIGN
- GENERAL PARKING AREAS: FULL DEPTH HMA: 5.5–INCHES ASPHALT PAVEMENT OR COMPOSITE SECTION: 4.0–INCHES ASPHALT PAVEMENT OVER 5.0–INCHES AGGREGATE BASE COURSE. RIGID SECTION: 6–INCHES CONCRETE OVER 6–INCHES AGGREGATE BASE COURSE. REFER TO PAVING NOTES FOR REQUIREMENTS.
- HEAVY TRUCK TRAFFIC AREAS / FIRE LANES: FULL DEPTH HMA: 7.0–INCHES ASPHALT PAVEMENT OR COMPOSITE SECTION: 4.5–INCHES ASPHALT PAVEMENT OVER 9.0–INCHES AGGREGATE BASE COURSE. RIGID SECTION: 8–INCHES CONCRETE OVER 6–INCHES AGGREGATE BASE COURSE. REFER TO PAVING NOTES FOR REQUIREMENTS.
- REINFORCED CONCRETE PAVEMENT–HEAVY TRAFFIC AREAS: 9.0–INCHES OF CDOT CLASS P REINFORCED CONCRETE PAVEMENT OVER 12.0–INCHES CDOT CLASS 5/6 AGGREGATE BASE COURSE. REFER TO STRUCTURAL PLANS FOR REINFORCEMENT AND INTEGRATION OF EXTERIOR CONCRETE APRON WITH INTERIOR STRUCTURAL FLOOR
- APPROXIMATE LIMIT OF CONSTRUCTION AND ASPHALT REMOVAL
- PROPOSED SECURITY FENCE
- PROPOSED HANDRAIL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING LIGHT POLE
- LIGHTPOLE, SEE SITE LIGHTING PLAN FOR LAYOUT
- PROPOSED ELECTRIC TRANSFORMER, REFER TO ELEC DRAWINGS
- PROPOSED BOLLARD
- PROPERTY OR ROW LINE
- EXISTING EASEMENT



KEY MAP
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Kiowa Engineering Corporation
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/16/2026
REVIEWED BY:	MWE
DRAWN BY:	AMD
DESIGNED BY:	JJM
PROJECT NUMBER:	20611004000

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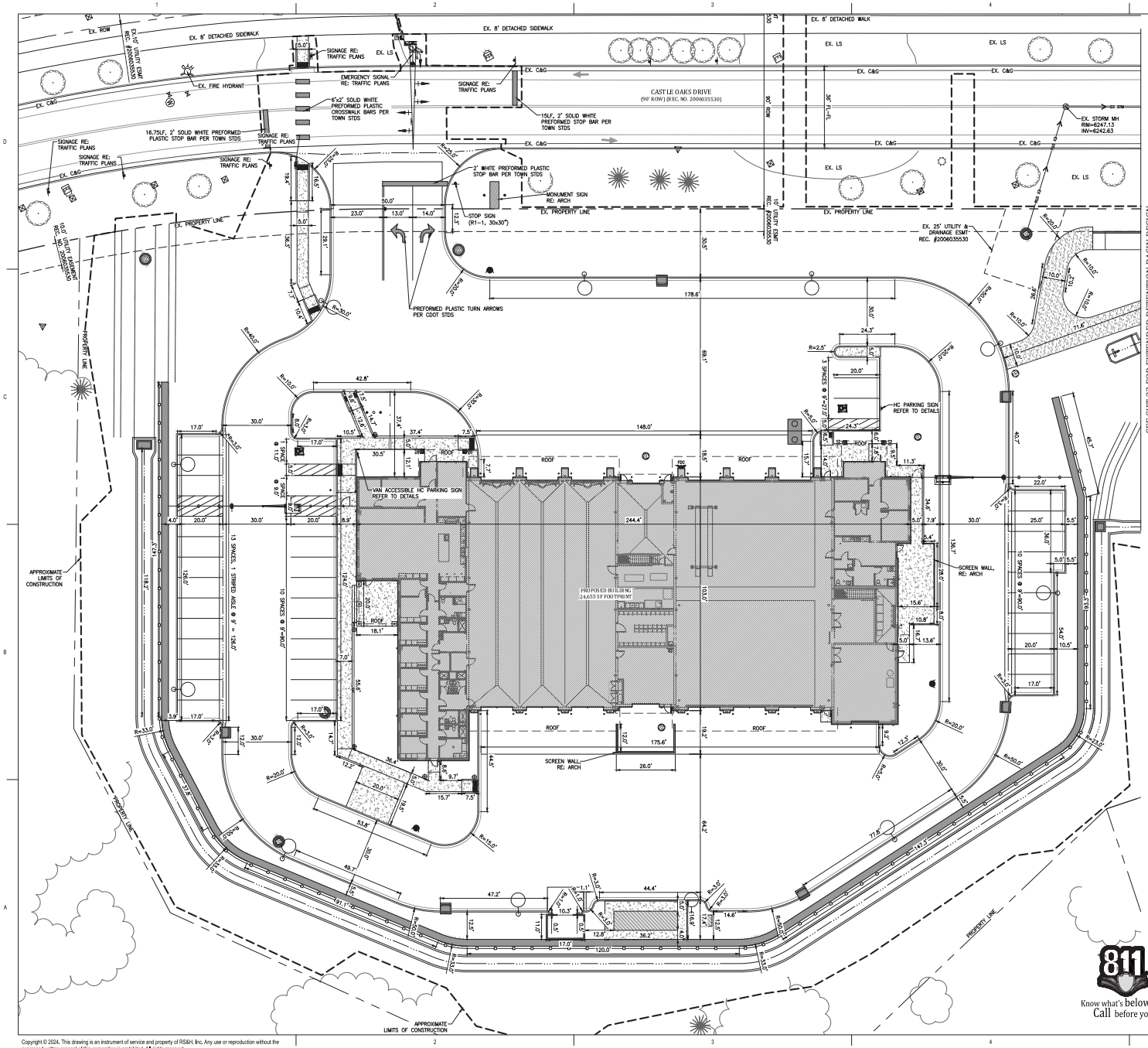
SEAL:

SHEET TITLE:
CIVIL SITE PLAN

SHEET ID:
5
Sheet 5 of 47

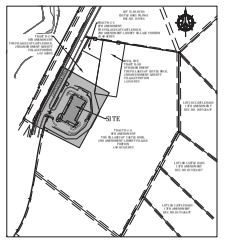
PROJECT STATUS:
Site Construction Documents



0 20' 40'
SCALE: 1"=20'

LEGEND

- PROPOSED BUILDING
- CURB & GUTTER
- EXISTING PROPERTY LINE AND RIGHT OF WAY
- PROPOSED SIDEWALK
- CURB RAMPS TYPICAL – REFER TO DETAILS
- HANDICAP PARKING SPACE, STRIPED ISLAND AND HANDICAP PARKING SIGN – REFER TO DETAILS.
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED PAINTED ARROW, SEE DETAILS
- APPROXIMATE LIMIT OF DISTURBANCE AND ASPHALT REMOVAL
- PROPOSED FENCE
- PROPOSED HANDRAIL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING LIGHT POLE
- LIGHTPOLE, SEE SITE LIGHTING PLAN FOR LAYOUT
- PROPOSED BOLLARD
- EXISTING EASEMENT



KEY MAP
SCALE:1"=500'

NOTE:
1. ALL PREFORMED THERMOPLASTIC PAVEMENT MARKINGS SHALL BE RECESSED

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DATE ISSUED:	01/16/2026
REVIEWED BY:	MWE
DRAWN BY:	AMD
DESIGNED BY:	JIM
PROJECT NUMBER:	20611004000

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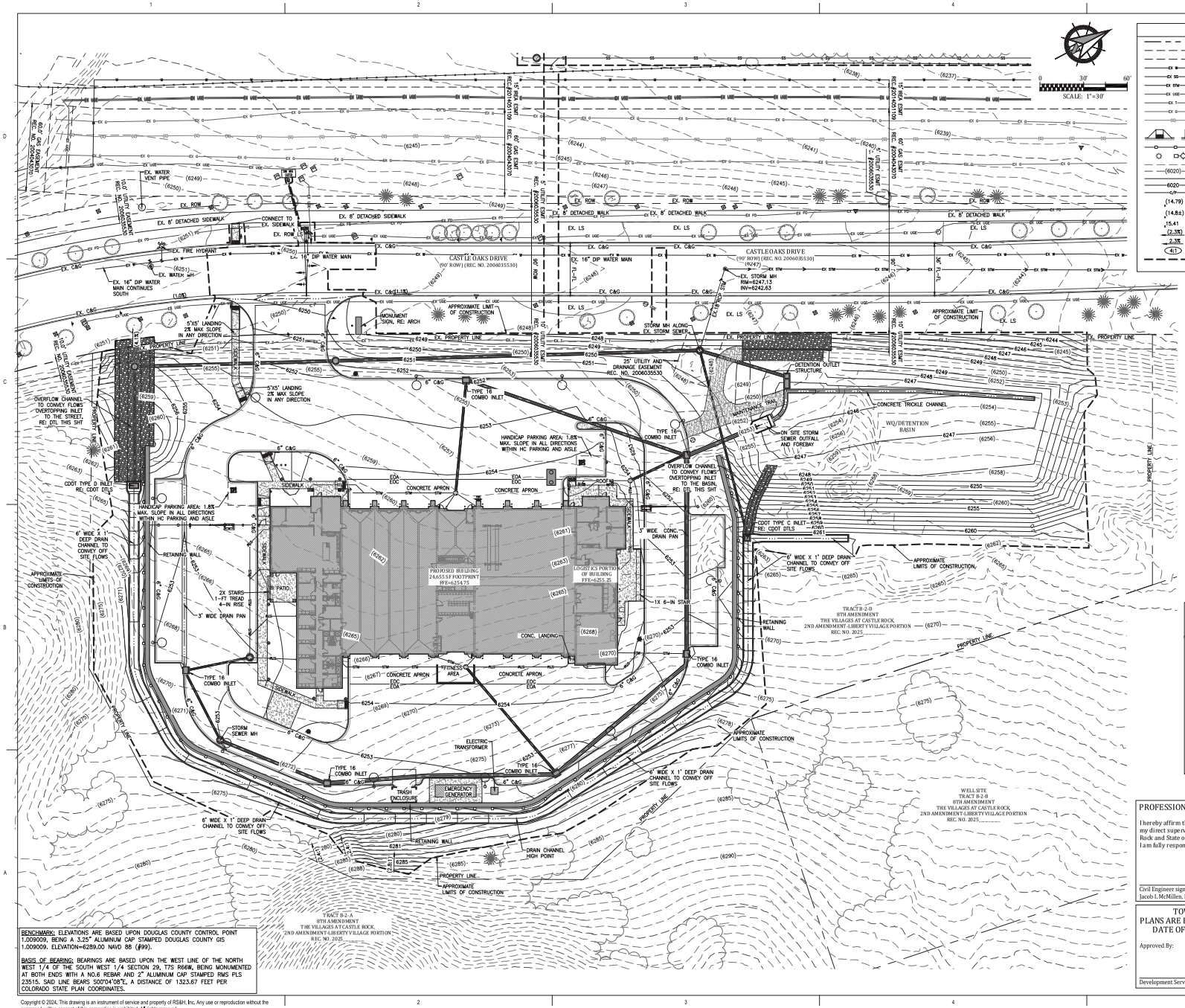
SEAL:

SHEET TITLE:
HORIZONTAL CONTROL AND SIGNAGE & STRIPING PLAN

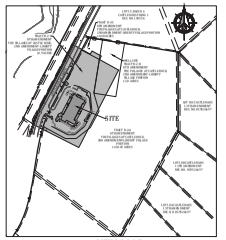
SHEET ID:
6
Sheet 6 of 47

PROJECT STATUS:
Site Construction Documents



LEGEND

- PROPERTY OR ROW LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EX W — EXISTING WATER LINE
- EX SS — EXISTING SANITARY SEWER
- EX STM — EXISTING STORM SEWER
- EX UGE — EXISTING UNDERGROUND ELECTRIC LINE
- EX T — EXISTING UNDERGROUND TELEPHONE LINE
- EX G — EXISTING GAS LINE
- (G) — ABANDONED GAS LINE
- CURB RAMPS TYPICAL – REFER TO DETAILS
- EXISTING FENCE
- EXISTING STREET LIGHT
- (6020) — EXISTING CONTOURS
- 6020 — PROPOSED CONTOURS
- C/F — CUT/FILL DEMARCATION LINE
- (14.79) — EXISTING SPOT ELEVATION
- (14.8±) — APPROXIMATE EXISTING SPOT ELEVATION. ELEVATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- 15.41 — PROPOSED SPOT ELEVATION
- (2.3%) — EXISTING FLOW DIRECTION AND SLOPE
- 2.3% — PROPOSED FLOW DIRECTION AND SLOPE
- 41 — PROPOSED SLOPE
- APPROXIMATE LIMIT OF CONSTRUCTION



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NO.	DESCRIPTION	DATE

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REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JIM
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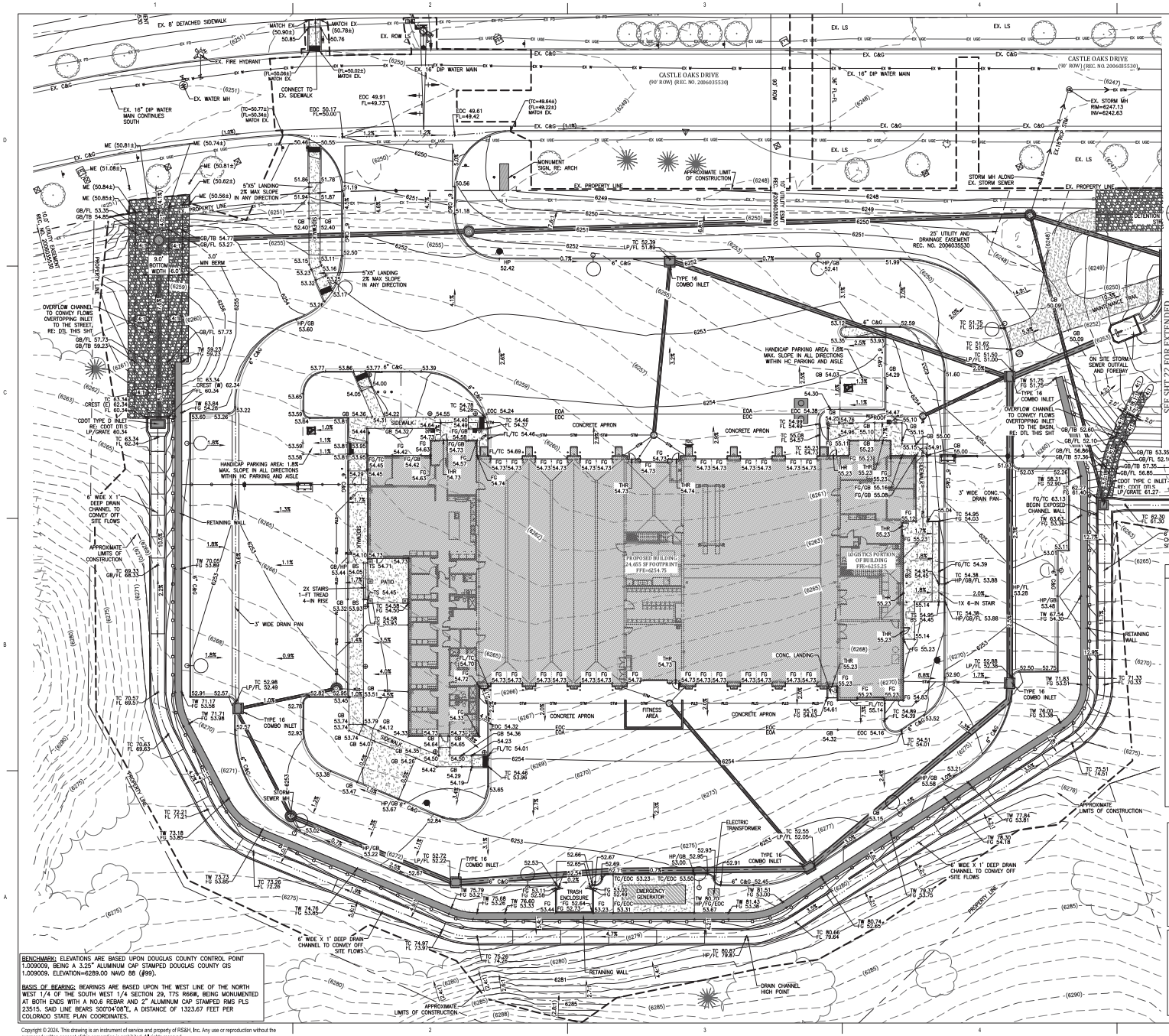
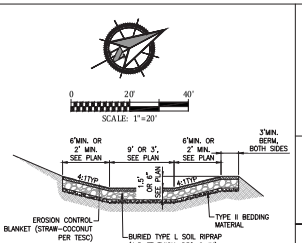
SEAL:

SHEET TITLE:
OVERALL GRADING PLAN

SHEET ID:
7
Sheet 7 of 47

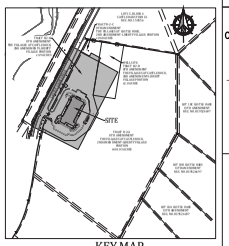
PROJECT STATUS:
Site Construction Documents





A/9 BURIED SOIL RIPRAP OVERFLOW CHANNEL
SCALE: NTS

NOTE: OVERFLOW CHANNEL INTO SPILLWAY DOES NOT HAVE BERMS. CHANNEL SHOULD BE GRADED INTO SIDE OF DETENTION BASIN BANK



KEY MAP
SCALE:1"=500'

LEGEND

- PROPERTY OR ROW LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING WATER LINE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELEPHONE LINE
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- EXISTING FENCE
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- PROPOSED SPOT ELEVATION
- EXISTING FLOW DIRECTION AND SLOPE
- PROPOSED FLOW DIRECTION AND SLOPE
- PROPOSED SLOPE
- APPROXIMATE LIMIT OF CONSTRUCTION

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REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY: JIM
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SEAL:

SHEET TITLE:
GRADING PLAN

SHEET ID:
8
Sheet 8 of 47

PROJECT STATUS:
Site Construction Documents

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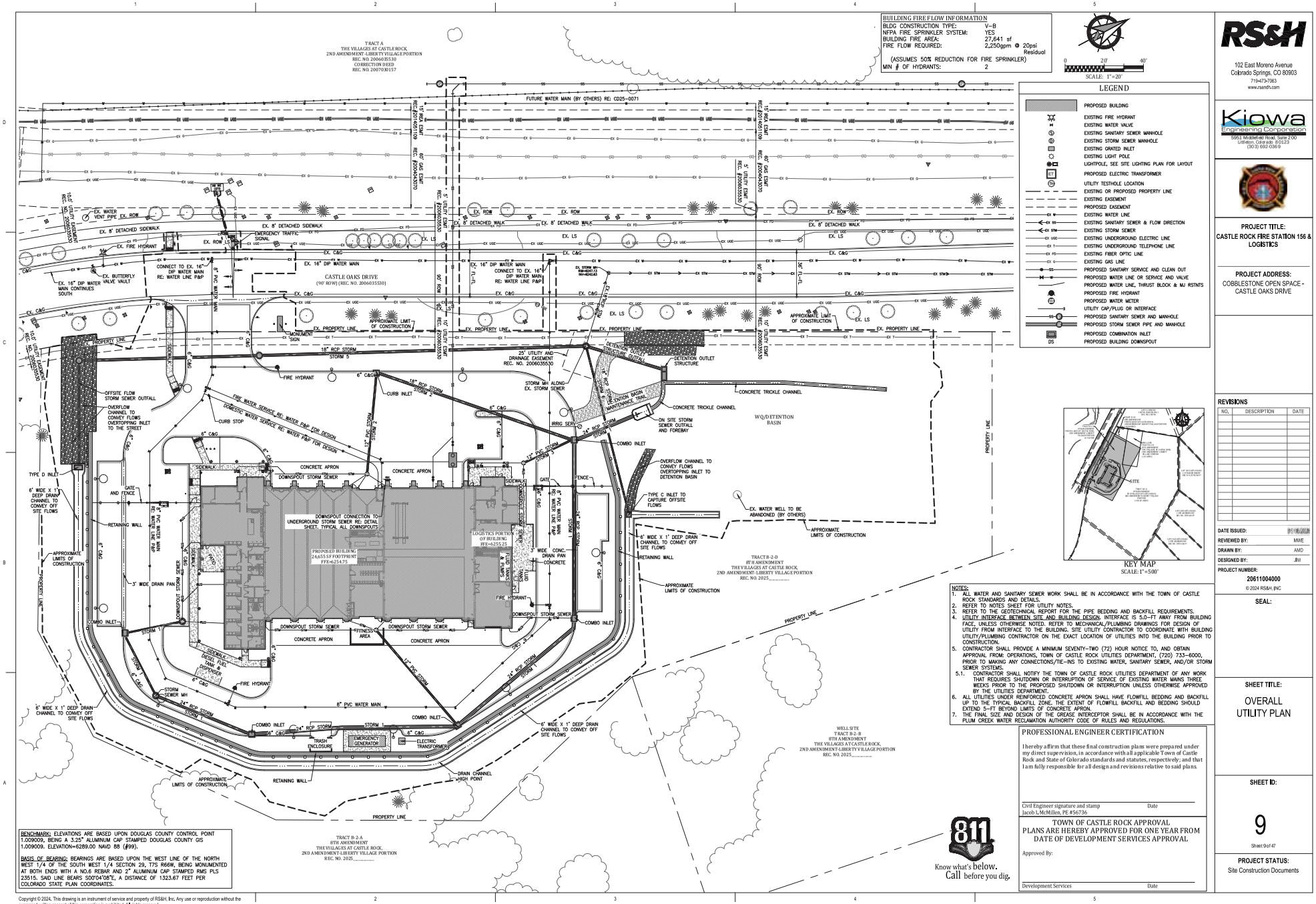

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SHEET TITLE:
OVERALL UTILITY PLAN

SHEET ID:
9
Sheet 9 of 47

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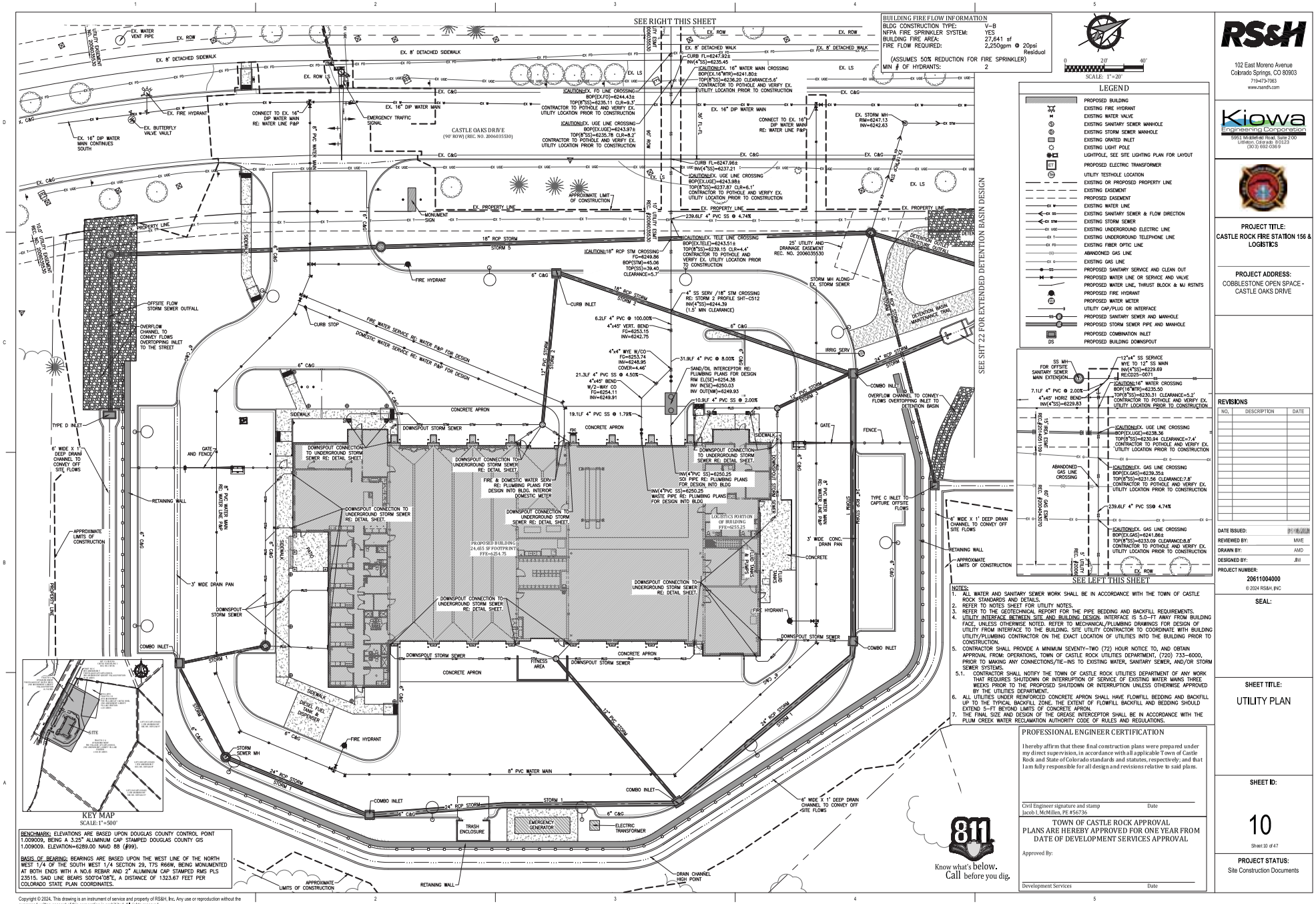

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Kiowa Engineering Corporation
5951 Middlefield Road, Suite 200
Littleton, Colorado 80123
(303) 692-0369

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JJM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
UTILITY PLAN

SHEET ID:
10
Sheet 10 of 47

PROJECT STATUS:
Site Construction Documents

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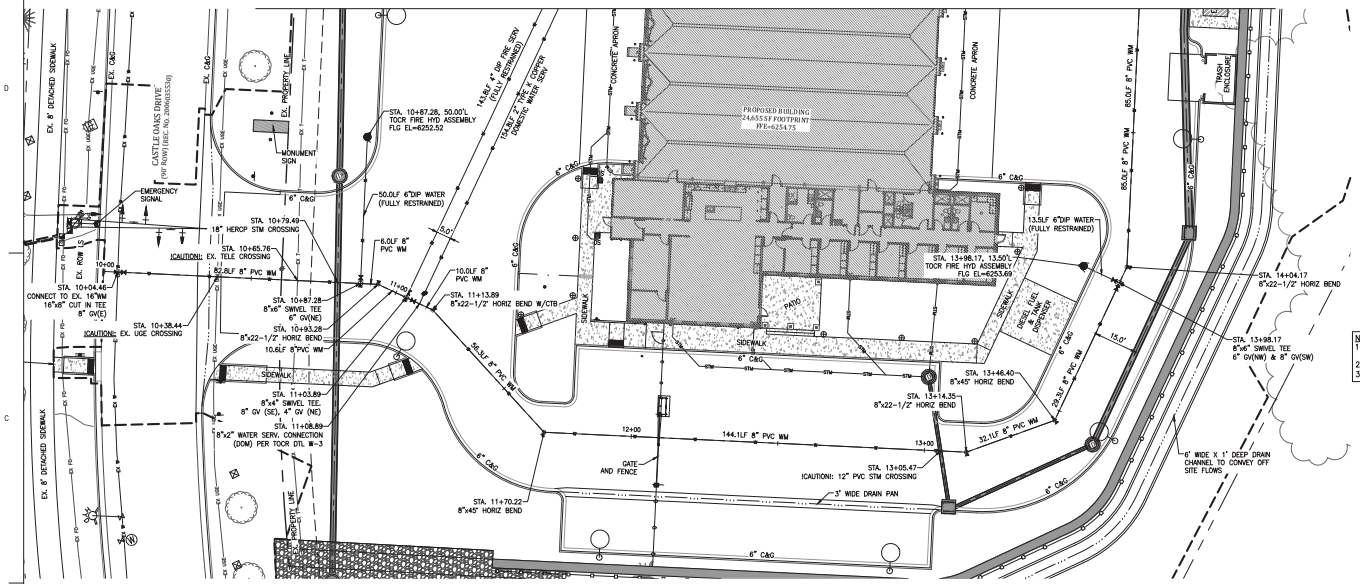

NOTES:
1. ALL WATER AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK STANDARDS AND DETAILS.
2. REFER TO NOTES SHEET FOR UTILITY NOTES.
3. ALL JOINTS ON 8" PVC WM, 6" DIP HYDRANT LINES, AND 4" DIP FIRE SERVICE SHALL BE FULLY RESTRAINED.

LEGEND

- PROPOSED BUILDING
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING GRATED INLET
- EXISTING LIGHT POLE
- LIGHTPOLE, SEE SITE LIGHTING PLAN FOR LAYOUT
- PROPOSED ELECTRIC TRANSFORMER
- UTILITY TESTHOLE LOCATION
- EXISTING OR PROPOSED PROPERTY LINE
- EXISTING EASEMENT
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- EXISTING WATER LINE
- EXISTING SANITARY SEWER & FLOW DIRECTION
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC LINE
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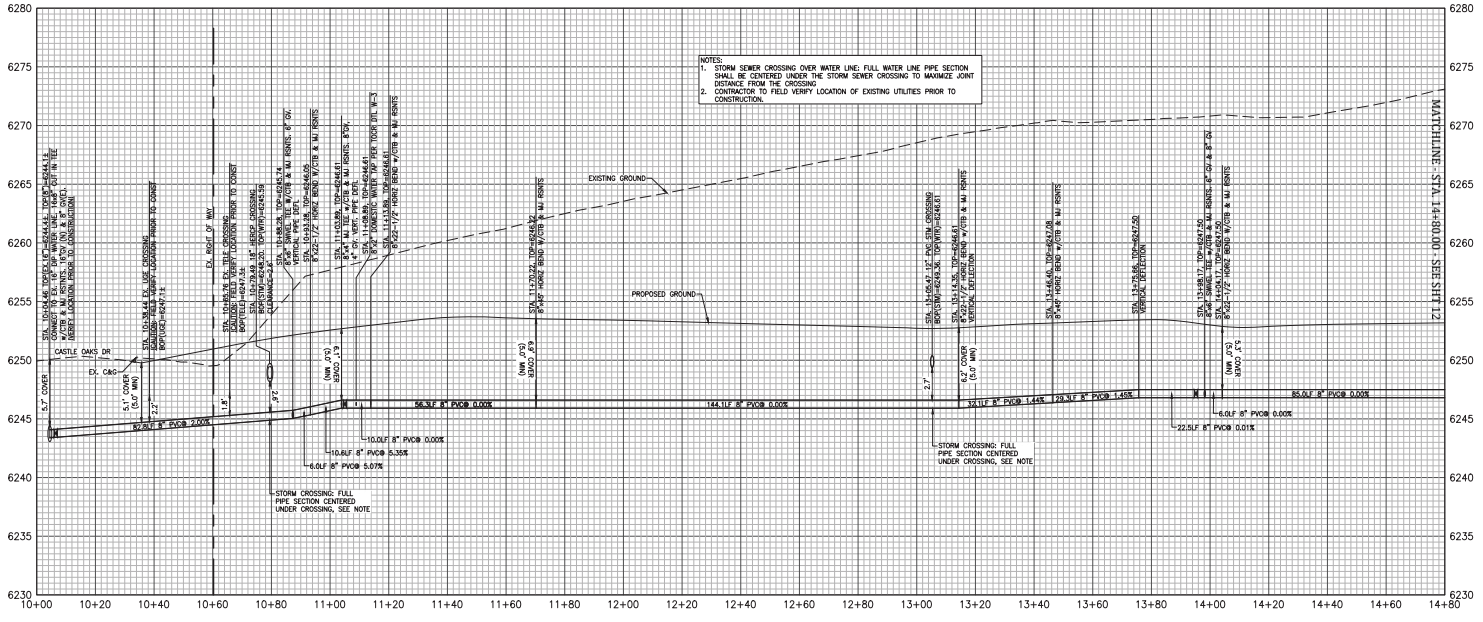
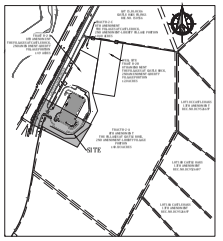
- PROPOSED SANITARY SERVICE AND CLEAN OUT
- PROPOSED WATER LINE OR SERVICE AND VALVE
- PROPOSED WATER LINE, THRUST BLOCK & MJ RSTNTS
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER
- UTILITY CAP/PLUG OR INTERFACE
- PROPOSED SANITARY SEWER AND MANHOLE
- PROPOSED STORM SEWER PIPE AND MANHOLE
- PROPOSED COMBINATION INLET

WATER LINE PROFILE





KEY MAP
SCALE:1"=500'

Know what's below. Call before you dig.

BENCHMARK: ELEVATIONS ARE BASED UPON DOUGLAS COUNTY CONTROL POINT 1.009009, BEING A 3.25" ALUMINUM CAP STAMPED DOUGLAS COUNTY GIS 1.009009. ELEVATION=6289.00 NAVD 88 (#99).

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Civil Engineer signature and stamp — Date
Jacob I. McMillen, PE #56736

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PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

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DATE ISSUED: 01/16/2026
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JIM
PROJECT NUMBER: 20611004000

SEAL:

SHEET TITLE:
WATER PLAN AND PROFILE

SHEET ID:
11
Sheet 11 of 47

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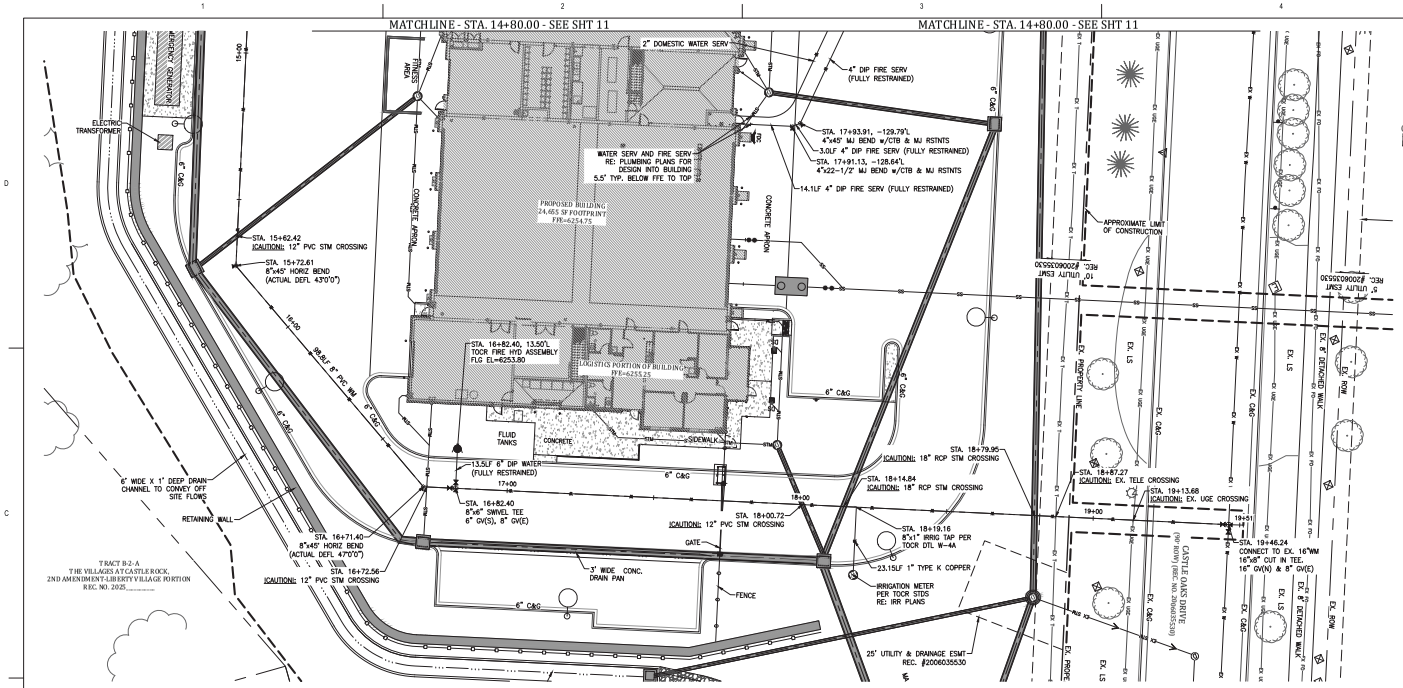

LEGEND

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- EXISTING FIRE HYDRANT
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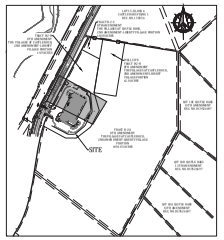
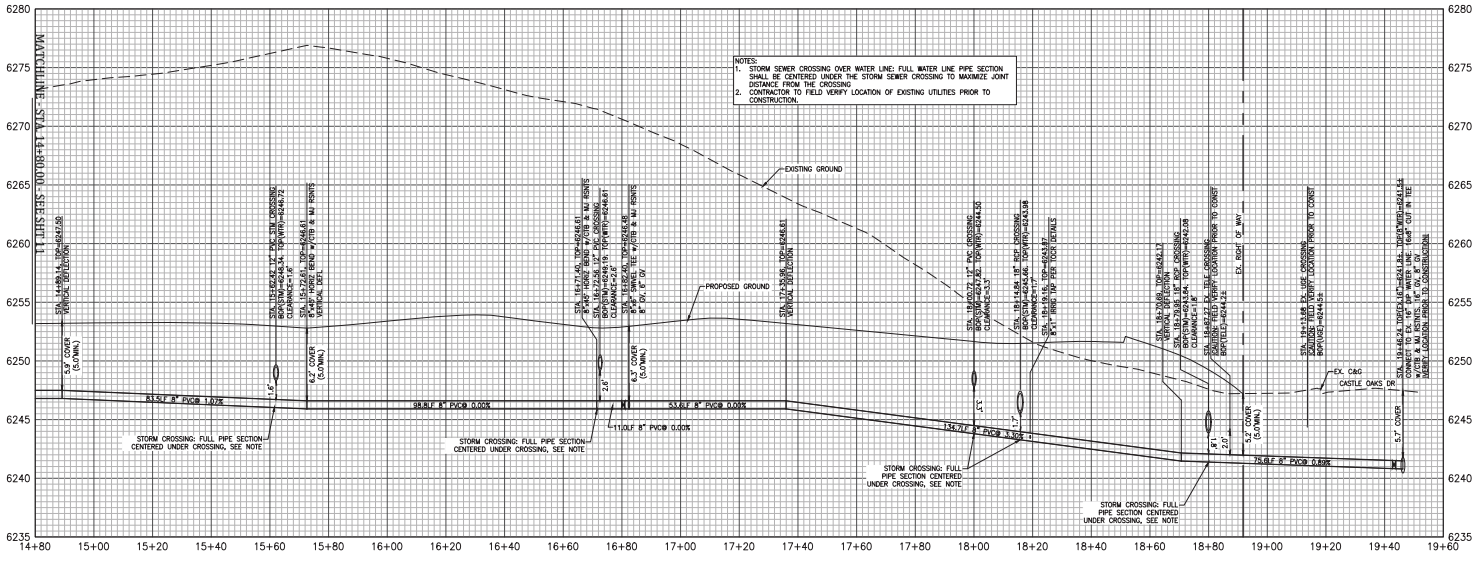


KEY MAP
SCALE:1"=500'

WATER LINE PROFILE



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NO.	DESCRIPTION	DATE

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WATER PLAN AND PROFILE

SHEET ID:
12
Sheet 12 of 47

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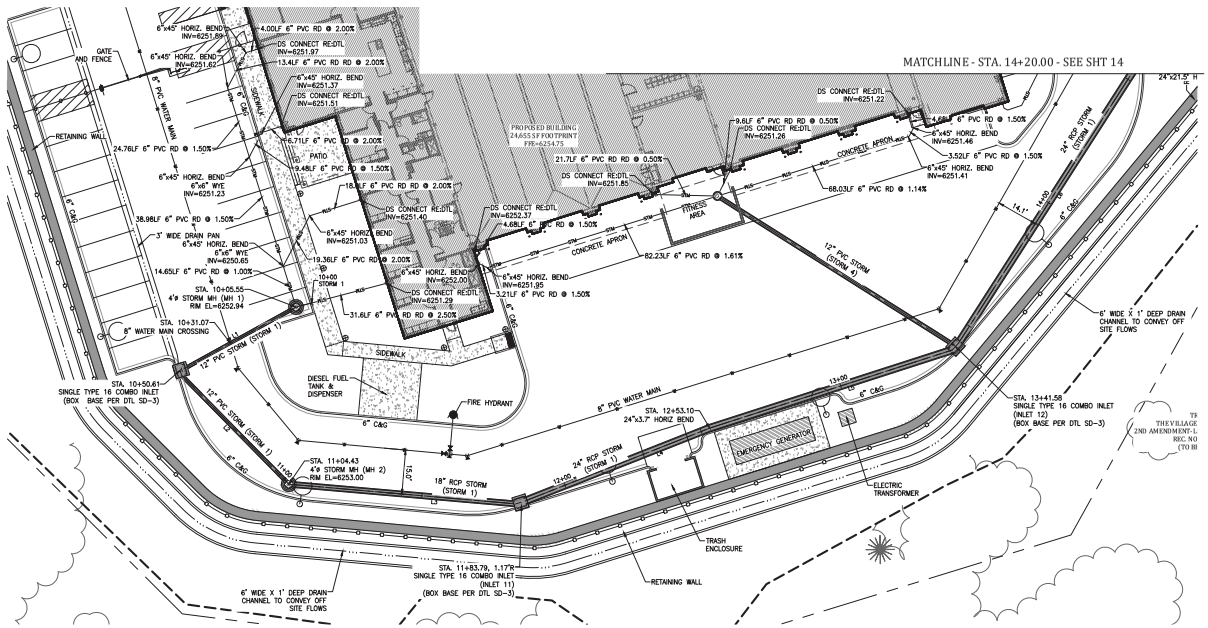

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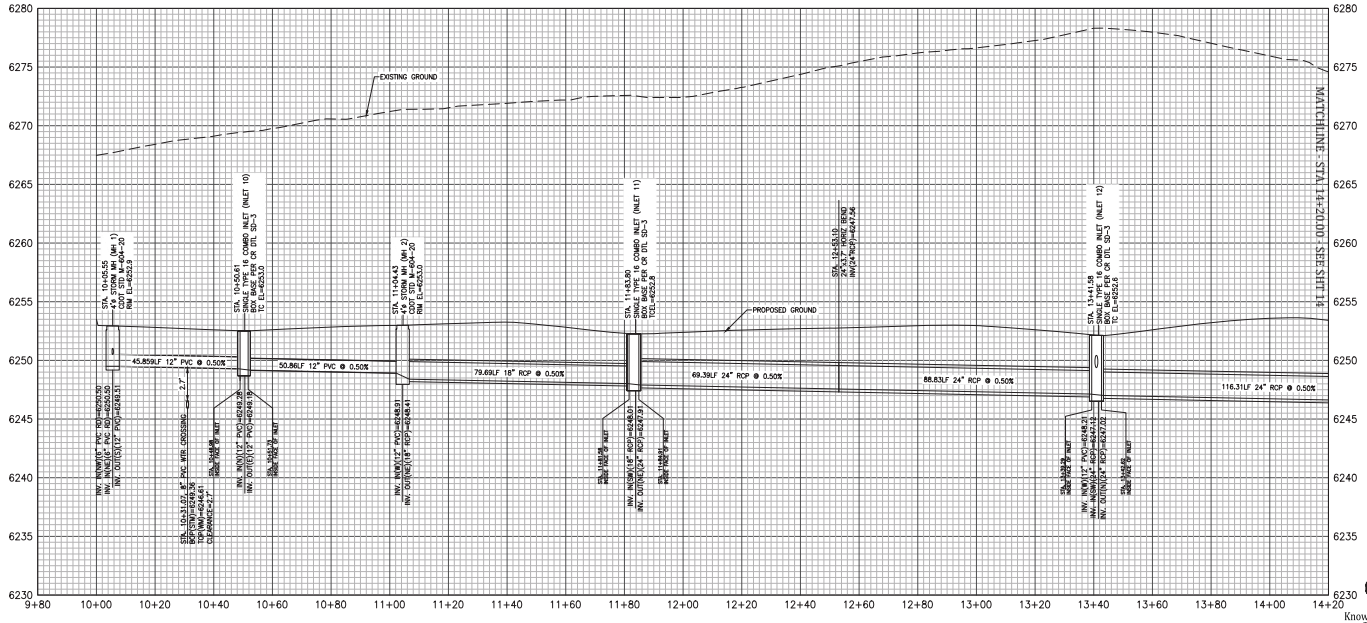
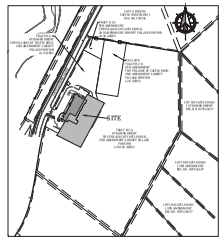
LINE TABLE: ALIGNMENT

LINE #	DIRECTION	START POINT(N,E)	END POINT (N,E)
L1	S16° 06' 32.72"W	(3196535.42,1575649.71)	(3196523.24,1575607.54)
L2	S89° 30' 17.00"E	(3196524.19,1575605.73)	(3196576.34,1575605.27)
L3	N49° 58' 02.39"E	(3196576.34,1575605.27)	(3196635.83,1575655.25)
L4	N23° 27' 29.83"E	(3196637.38,1575658.20)	(3196664.30,1575720.25)
L5	N27° 09' 26.68"E	(3196664.30,1575720.25)	(3196703.93,1575797.50)
L6	N12° 18' 10.81"W	(3196703.78,1575800.82)	(3196679.39,1575912.67)

STORM 1 PROFILE





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STORM SEWER PLAN AND PROFILE

SHEET ID:
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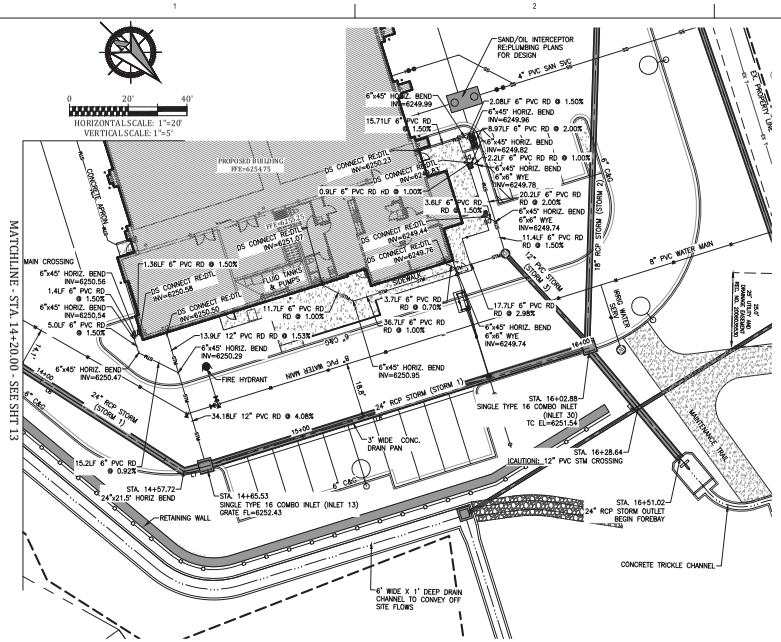

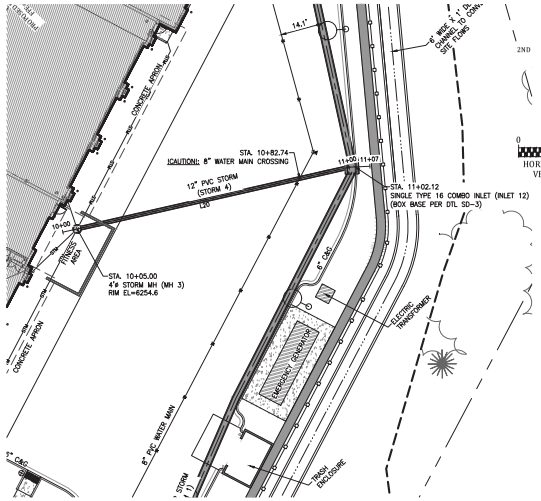

LEGEND

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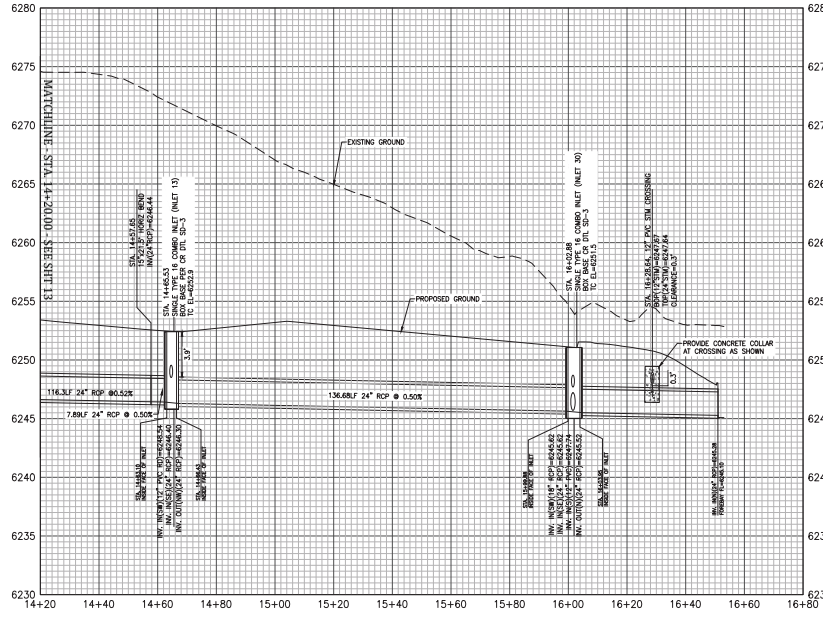
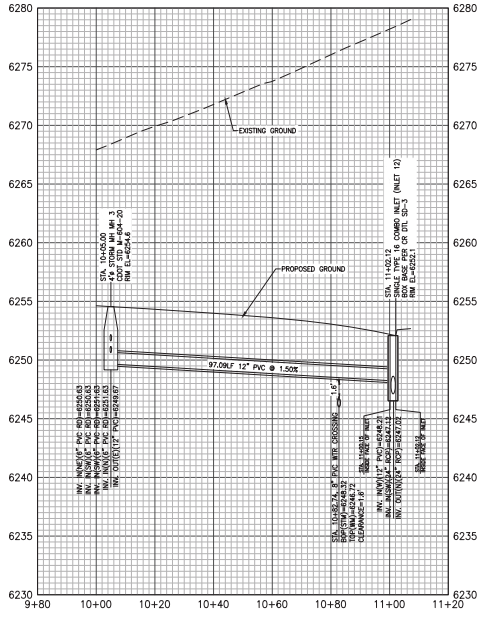
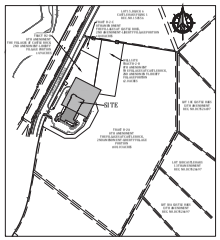
LINE TABLE: ALIGNMENT			
LINE #	DIRECTION	START POINT(N.E)	END POINT (N.E)
L6	N12° 18' 10.81"W	(3196703.78,1575800.82)	(3196679.39,1575912.67)
L7	N57° 25' 45.79"W	(3196679.39,1575912.67)	(3196674.33,1575915.91)
L8	N62° 12' 48.08"W	(3196671.46,1575917.59)	(3196553.40,1575979.80)
L9	N05° 11' 20.22"E	(3196552.25,1575981.20)	(3196556.78,1576031.14)
L20	N77° 13' 21.35"E	(3196610.23,1575778.08)	(3196703.03,1575799.12)

STORM 1 PROFILE



STORM 4 PROFILE





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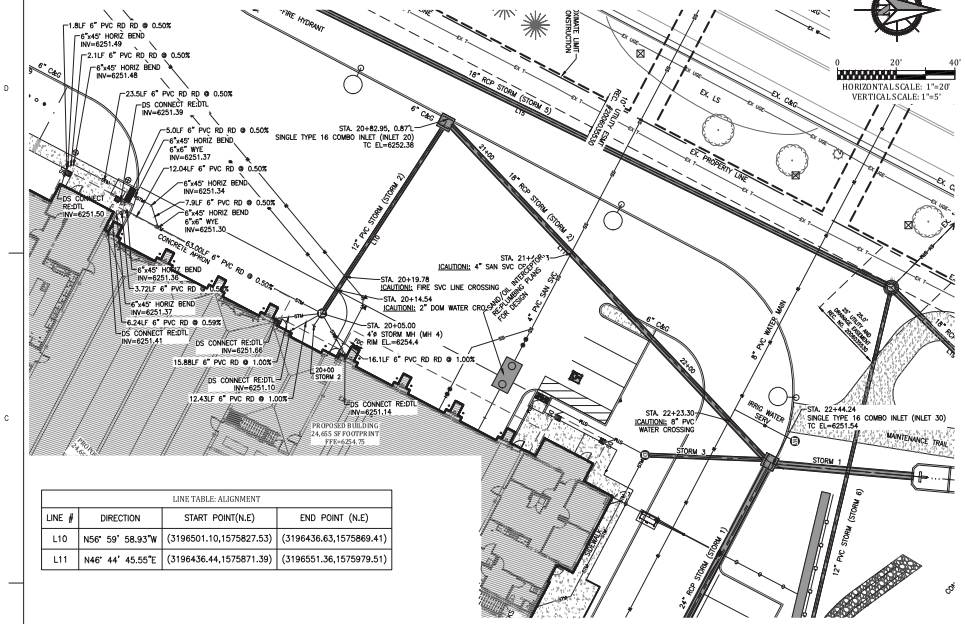

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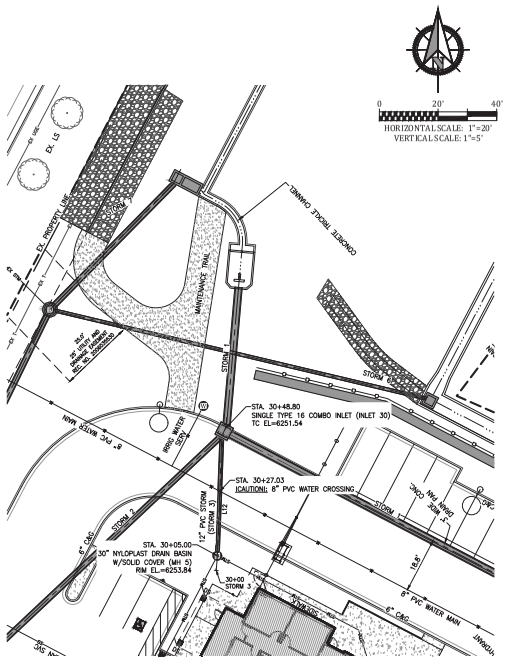
LINE #	DIRECTION	START POINT(N.E)	END POINT (N.E)
L10	N56° 59' 58.93"W	(3196501.10,1575827.53)	(3196436.63,1575869.41)
L11	N46° 44' 45.55"E	(3196436.44,1575871.39)	(3196551.36,1575979.51)



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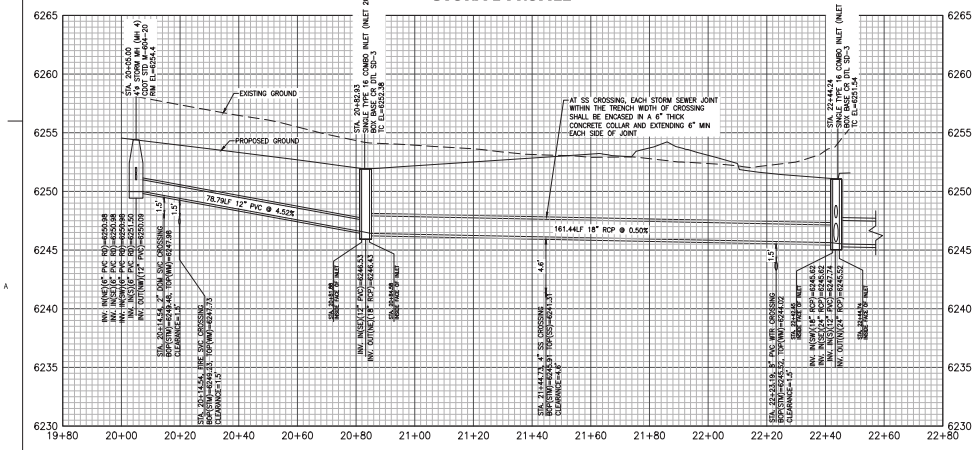
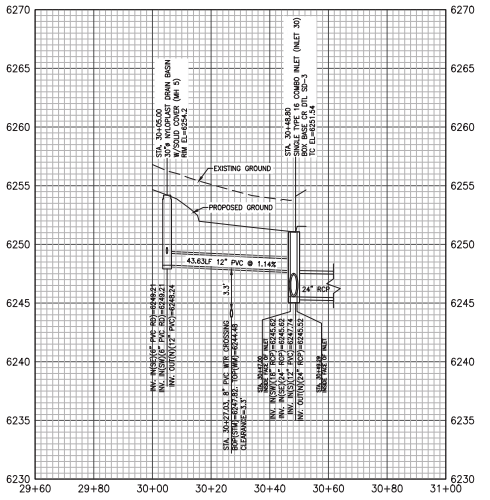
LINE #	DIRECTION	START POINT(N.E)	END POINT (N.E)
L12	N02° 43' 03.55"E	(3196549.37,1575937.67)	(3196551.36,1575979.51)

STORM 2 PROFILE



STORM 3 PROFILE



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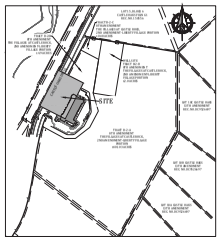
- PROPOSED STORM SEWER PIPE AND MANHOLE
- PROPOSED COMBINATION INLET



KEY MAP
SCALE:1"=500'

NOTE:
1. AT SS CROSSING, EACH STORM SEWER JOINT WITHIN THE TRENCH WIDTH OF CROSSING SHALL BE ENCASED IN A 6" THICK CONCRETE COLLAR AND EXTENDING 6" MIN EACH SIDE OF JOINT

811 Know what's below. Call before you dig.

BENCHMARK: ELEVATIONS ARE BASED UPON DOUGLAS COUNTY CONTROL POINT 1.009009, BEING A 3.25" ALUMINUM CAP STAMPED DOUGLAS COUNTY GIS 1.009009. ELEVATION=6289.00 NAVD 88 (ƒ99).

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Jacob I. McMillen, PE #56736

TOWN OF CASTLE ROCK APPROVAL

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Approved By:

Development Services — Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

Kiowa Engineering Corporation
5951 Middlefield Road, Suite 200
Littleton, Colorado 80123
(303) 692-0369

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/16/2025
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JIM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
STORM SEWER PLAN AND PROFILE

SHEET ID:
15
Sheet 15 of 47

PROJECT STATUS:
Site Construction Documents

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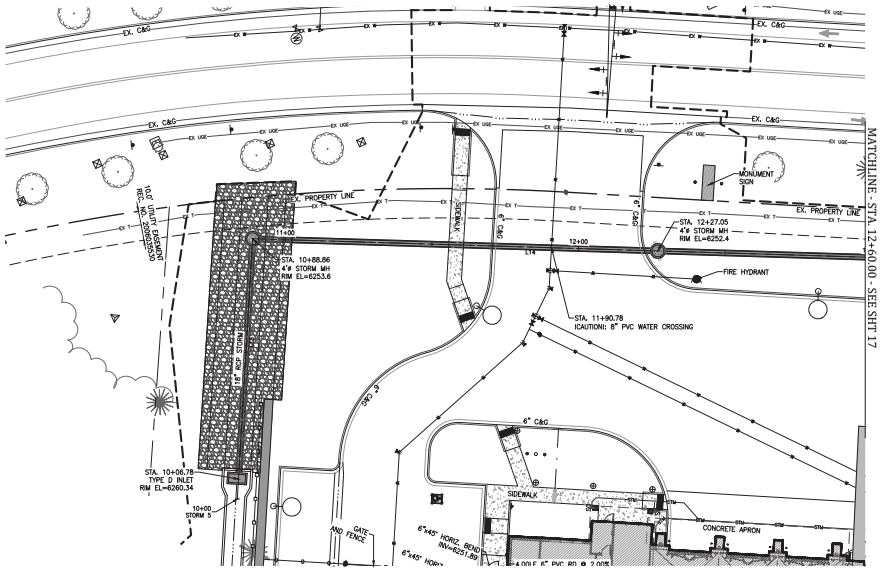

LEGEND

- PROPOSED BUILDING
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
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- EXISTING LIGHT POLE
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- UTILITY TESTHOLE LOCATION
- EXISTING OR PROPOSED PROPERTY LINE
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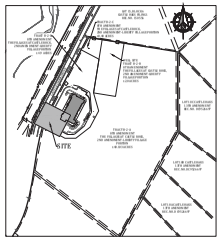
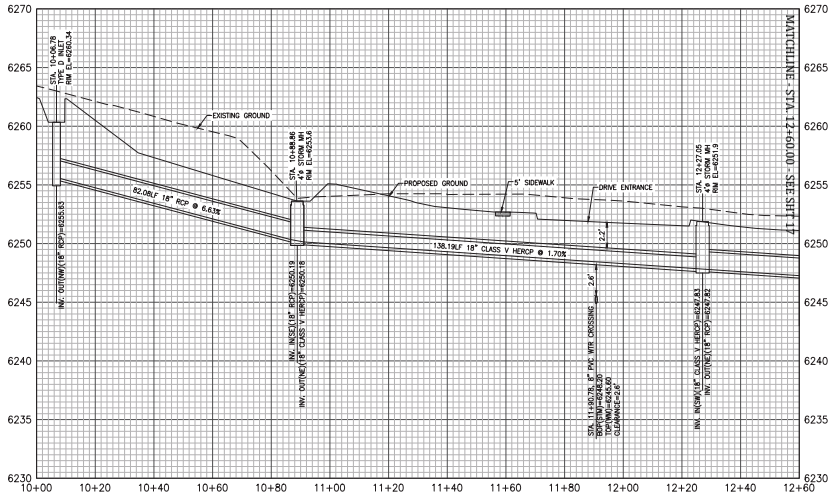


KEY MAP
SCALE:1"=500'

STORM 5 PROFILE



LINE TABLE: ALIGNMENT			
LINE #	DIRECTION	START POINT(N,E)	END POINT (N,E)
L13	N62° 18' 15.08"W	(3196395.90,1575633.53)	(3196321.65,1575672.51)
L14	N26° 03' 10.86"E	(3196321.65,1575672.51)	(3196382.35,1575796.65)

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REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY: JJM
PROJECT NUMBER: 20611004000

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STORM SEWER PLAN AND PROFILE

SHEET ID:
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Sheet 16 of 47

PROJECT STATUS:
Site Construction Documents

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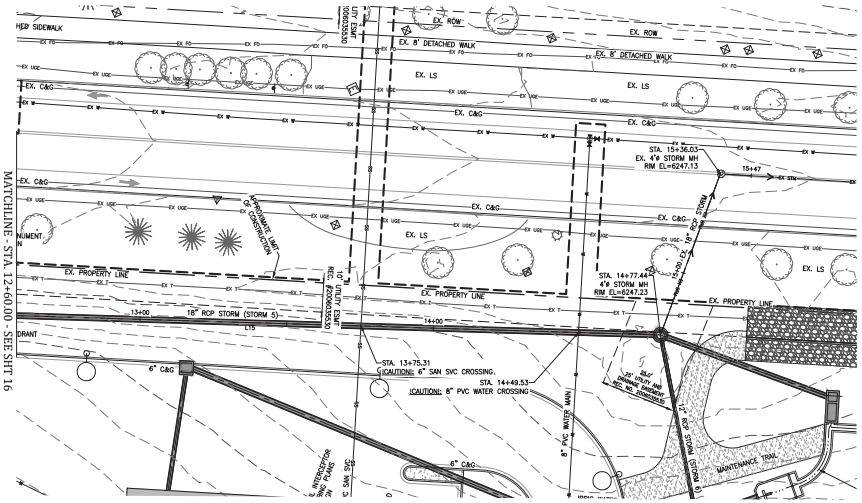

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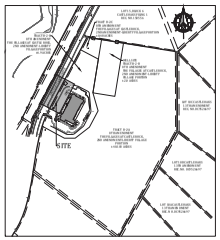
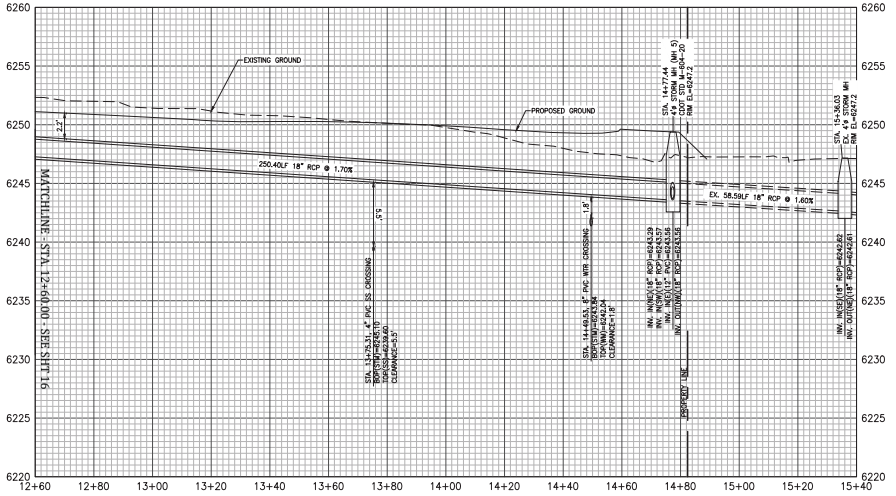


KEY MAP
SCALE: 1"=500'

STORM 5 PROFILE



LINE TABLE: ALIGNMENT				
LINE #	LENGTH	DIRECTION	START POINT(N,E)	END POINT (N,E)
L15	250.40	N26° 03' 17.60"E	(3196382.35,1575796.65)	(3196492.33,1576021.60)

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PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: [illegible]
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JIM
PROJECT NUMBER: 20611004000

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STORM SEWER PLAN AND PROFILE

SHEET ID:
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Sheet 17 of 47

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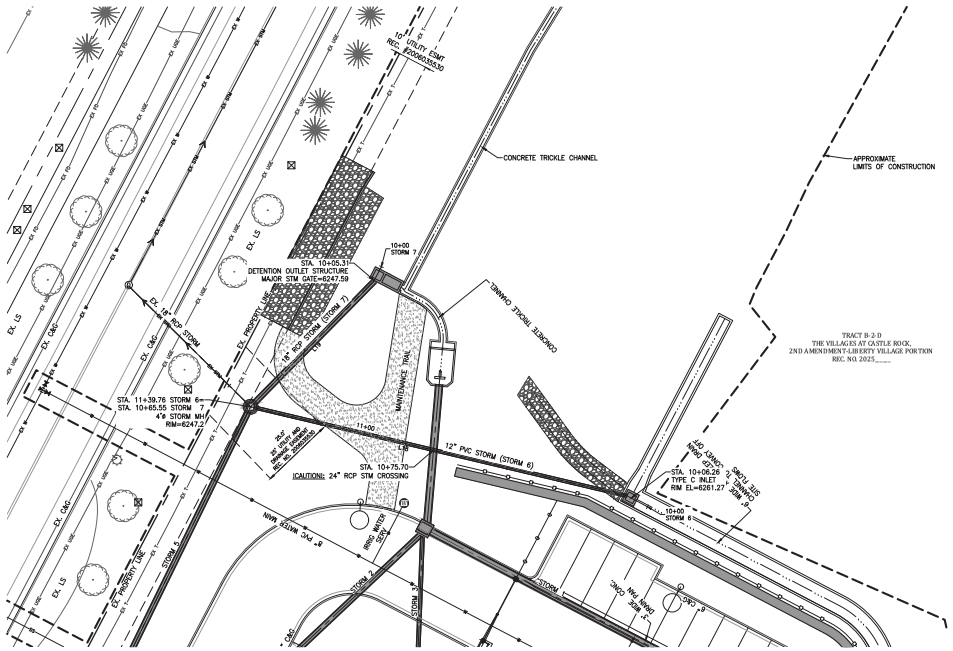

LEGEND

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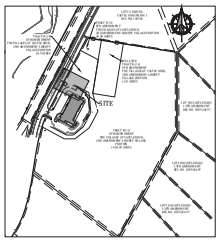
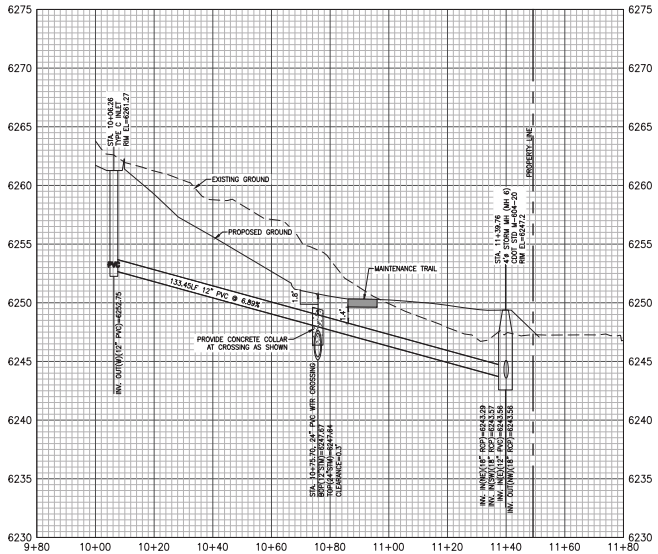
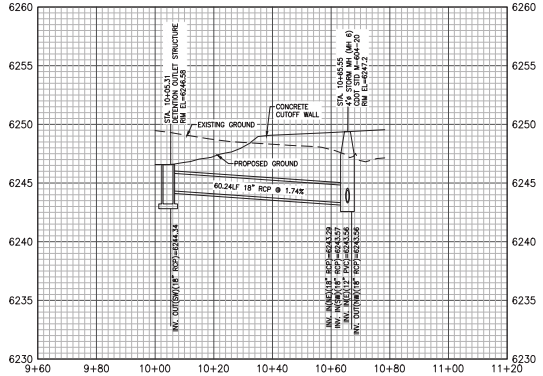


KEY MAP
SCALE: 1"=500'

STORM 6 PROFILE



STORM 7 PROFILE



LINE TABLE: ALIGNMENT			
LINE #	DIRECTION	START POINT(N,E)	END POINT (N,E)
L18	N76° 41' 09.79"W	(3196620.63,1575991.24)	(3196492.33,1576021.60)
L19	S44° 21' 45.00"W	(3196534.45,1576064.67)	(3196492.33,1576021.60)

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REVISIONS

NO.	DESCRIPTION	DATE

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SHEET ID:
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Sheet 18 of 47

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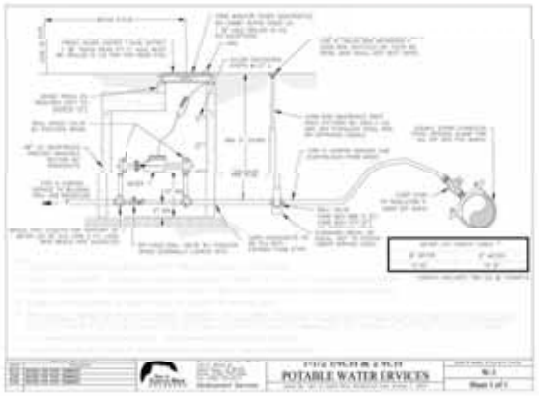

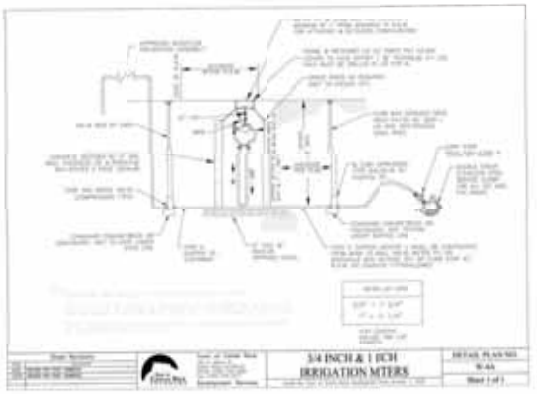

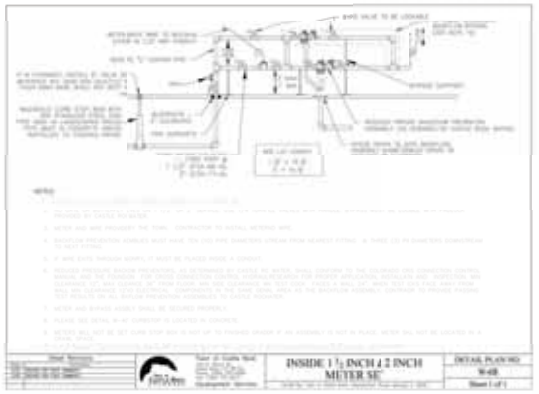

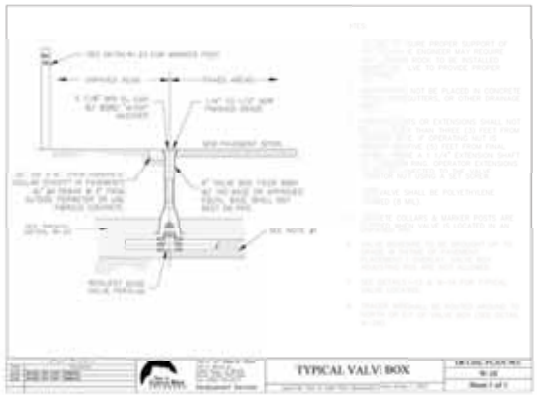

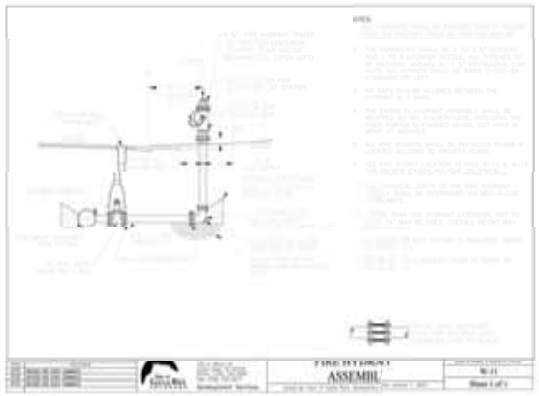

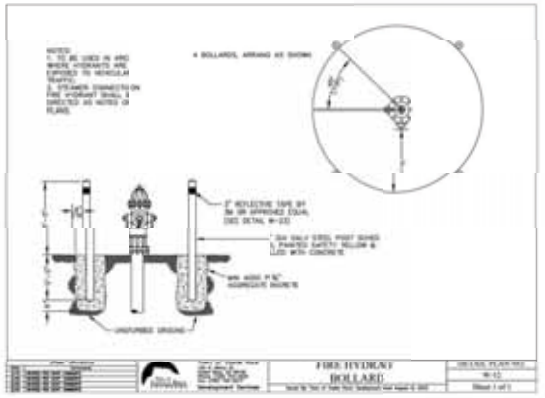

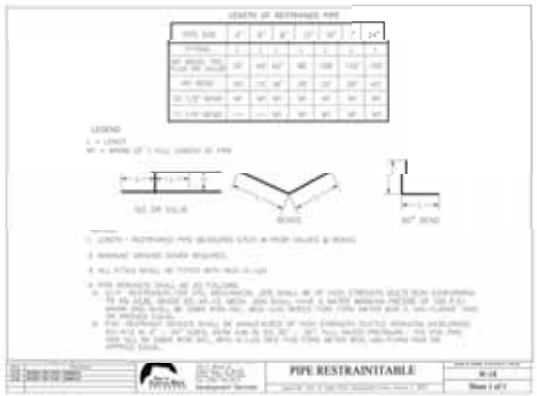

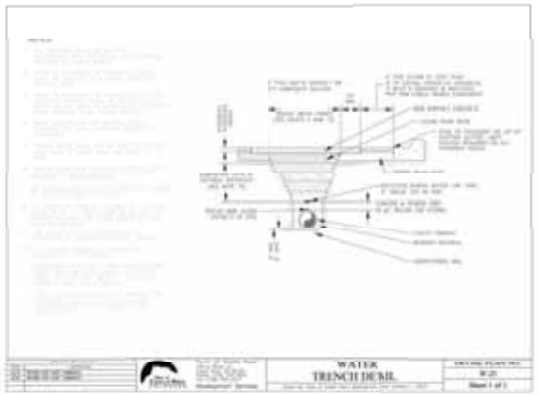

NOTE:
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DETAIL SHEET-WATER AND WASTEWATER

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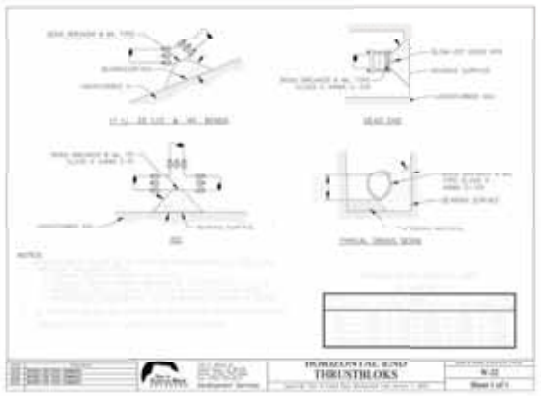

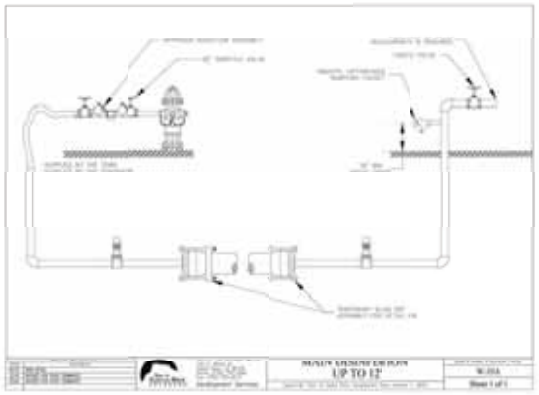

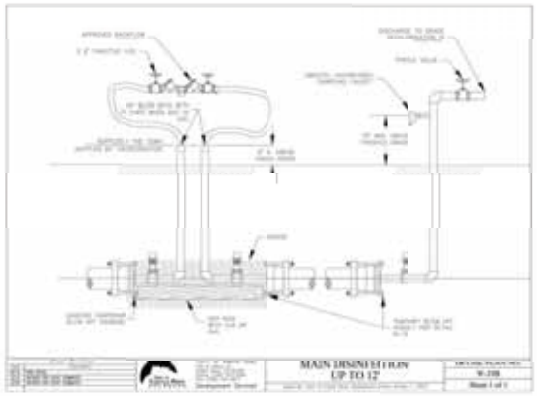

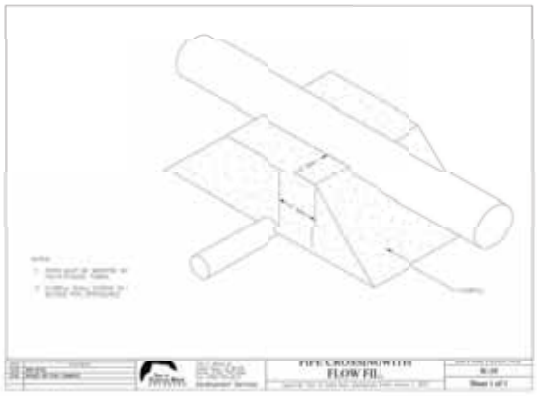

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DRAWN BY: AMD
DESIGNED BY: JIM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
DETAIL SHEET-WATER AND WASTEWATER

SHEET ID:
20
Sheet 20 of 47

PROJECT STATUS:
Site Construction Documents

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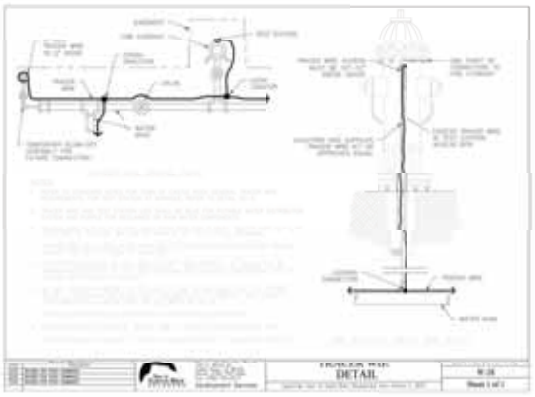

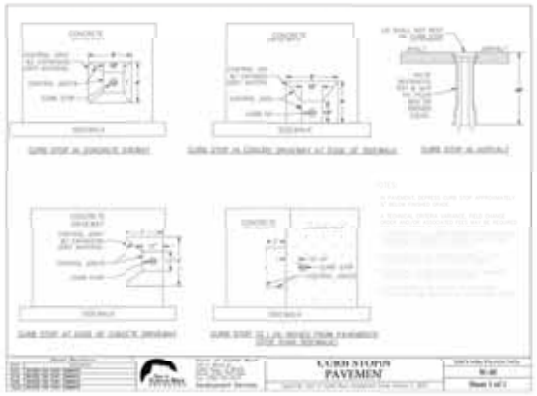

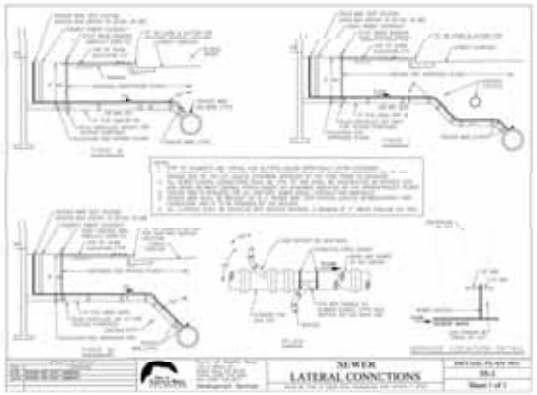

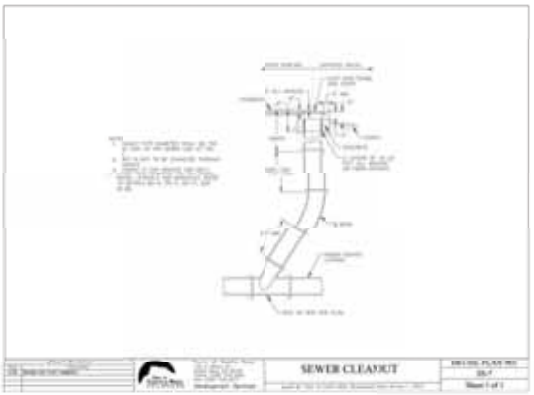

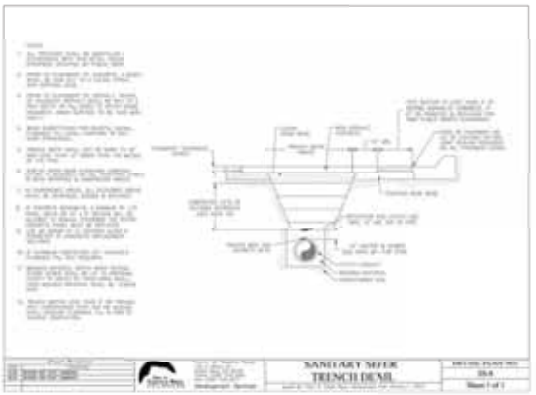

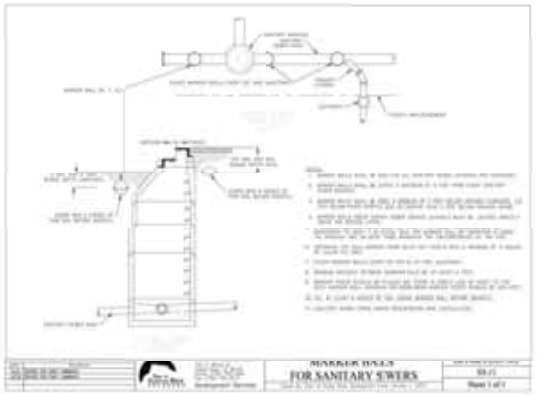

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Civil Engineer signature and stamp Date

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Approved By:

Development Services Date

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719-473-7063
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Kiowa Engineering Corporation
595 S Middlefield Road, Suite 200
Littleton, Colorado 80123
(303) 692-0359

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CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

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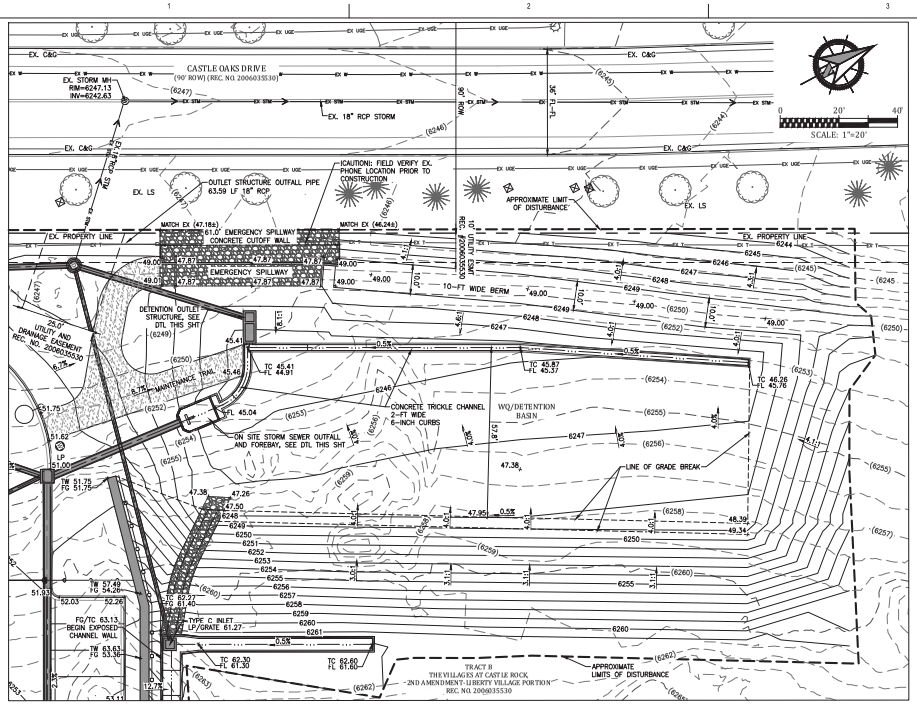
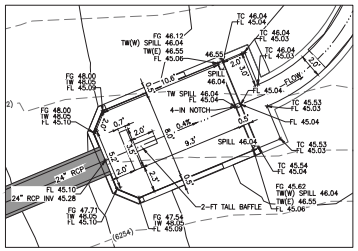
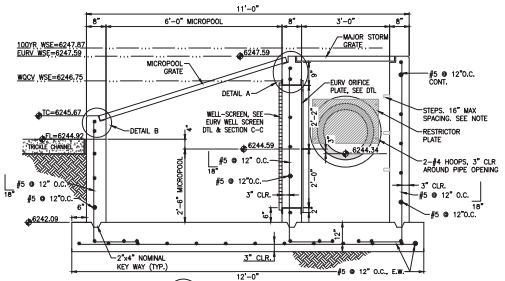
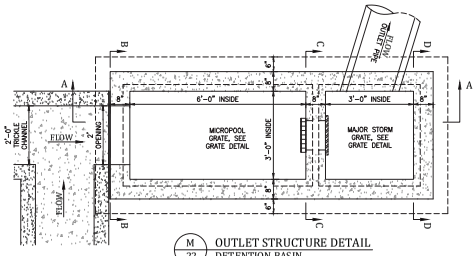




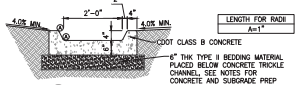
A 22 DETENTION BASIN FOREBAY
SCALE: 1"=5'



B 22 SECTION A-A
DETENTION BASIN
SCALE: NTS



M 22 OUTLET STRUCTURE DETAIL
DETENTION BASIN
PLAN VIEW
SCALE: NTS



N 22 TRICKLE CHANNEL
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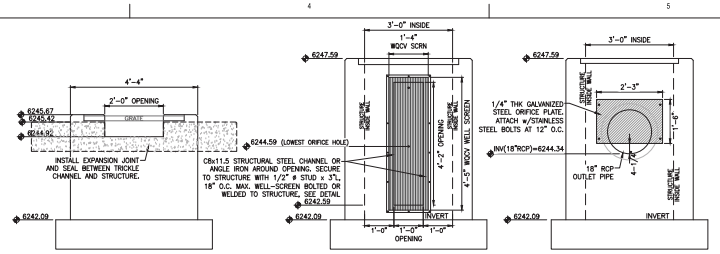
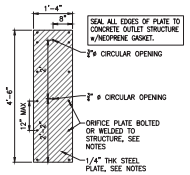


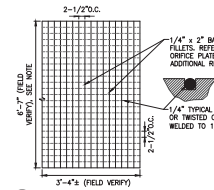
C 22 SECTION B-B
DETENTION BASIN
SCALE: NTS

D 22 SECTION C-C
DETENTION BASIN
SCALE: NTS

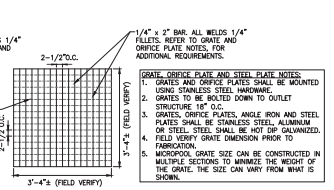
E 22 SECTION D-D
DETENTION BASIN
SCALE: NTS



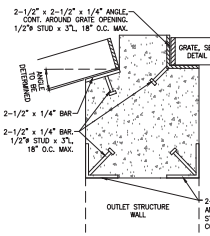
F 22 WQCV ORIFICE PLATE
DETENTION BASIN
SCALE: NTS



G 22 MICROPOOL GRATE DETAIL
SCALE: NTS

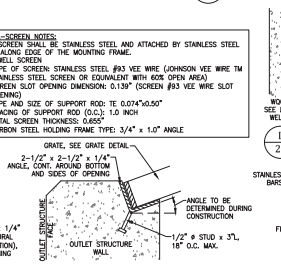


H 22 MAJOR STORM GRATE DETAIL
SCALE: NTS

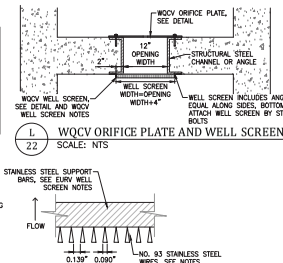


I 22 DETAIL A
SCALE: NTS

WQCV WELL-SCREEN NOTES:
1. WELL-SCREEN SHALL BE STAINLESS STEEL AND ATTACHED BY STAINLESS STEEL BOLTS ALONG EDGE OF THE MOUNTING FRAME.
2. EURV WELL SCREEN
   - TYPE OF SCREEN: STAINLESS STEEL #93 VEE WIRE (JOHNSON VEE WIRE TM STAINLESS STEEL SCREEN OR EQUIVALENT WITH 60% OPEN AREA)
   - SCREEN SLOT OPENING DIMENSION: 0.139" (SCREEN #93 VEE WIRE SLOT OPENING)
   - TYPE AND SIZE OF SUPPORT ROD: TE 0.074"x0.50"
   - SPACING OF SUPPORT ROD (O.C.): 1.0 INCH
   - TOTAL SCREEN THICKNESS: 0.655"
   - CARBON STEEL HOLDING FRAME TYPE: 3/4" x 1.0" ANGLE



J 22 DETAIL B
SCALE: NTS



L 22 WQCV ORIFICE PLATE AND WELL SCREEN
SCALE: NTS

K 22 WQCV WELL SCREEN
SCALE: NTS

DETENTION BASIN			
	WATER SURFACE ELEV. (FT)	REQUIRED STORAGE VOLUME	RELEASE RATE
WQCV	6246.56	0.067 AC-FT	
EURV	6247.41	0.220 AC-FT	
100-YEAR	6247.87	0.342 AC-FT	2.8 CFS
SPILLWAY CREST ELEVATION: 6247.84			
TOP OF EMBANKMENT MINIMUM ELEVATION: 6249.00			

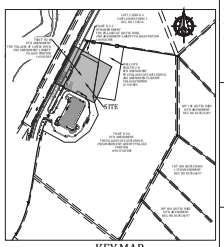
BENCHMARK: ELEVATIONS ARE BASED UPON DOUGLAS COUNTY CONTROL POINT 1.009099, BEING A 3.25" ALUMINUM CAP STAMPED DOUGLAS COUNTY GIS 1.009099. ELEVATION=6289.00 NAVD 88 (#99).

BASIS OF BEARING: BEARINGS ARE BASED UPON THE WEST LINE OF THE NORTH WEST 1/4 OF THE SOUTH WEST 1/4 SECTION 29, T7S R66W, BEING MONUMENTED AT BOTH ENDS WITH A NO.6 REBAR AND 2" ALUMINUM CAP STAMPED RMS PLS 23515. SAID LINE BEARS S00°04'08"E, A DISTANCE OF 1323.67 FEET PER COLORADO STATE PLAN COORDINATES.

OUTLET STRUCTURE, FOREBAY AND RETAINING WALL NOTES:
1. PRIOR TO CONSTRUCTION, CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
2. GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE 2-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE AND 3-INCH MIN CLEARANCE TO EDGE OF CONCRETE PLACED AGAINST SOIL, UNLESS OTHERWISE NOTED.

BAR SIZE	#4	#5	#6
MIN. SPLICE LENGTH	1'-3"	1'-7"	2'-0"

3. CONCRETE FOR THE OUTLET STRUCTURE, RETAINING WALL AND FOREBAYS SHALL BE CDOT CLASS D CONCRETE.
4. EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
5. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4-INCH CHAMFER UNLESS OTHERWISE NOTED.
6. BACKFILLING AGAINST WALLS SHALL NOT COMMENCE UNTIL CONCRETE HAS OBTAINED ITS FULL SEVEN DAY STRENGTH.
7. SUBGRADE TO BE 12" THK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURES.
8. OUTLET STRUCTURES STEPS SHALL CONFORM TO AASHTO M199.
9. FOREBAY: CONTROL JOINTS SHALL BE INSTALLED AT 10' O.C. MAXIMUM. THE JOINTS SHALL BE SEALED WITH A JOINT SEALANT.



KEY MAP
SCALE:1"=500'

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PROJECT ADDRESS:
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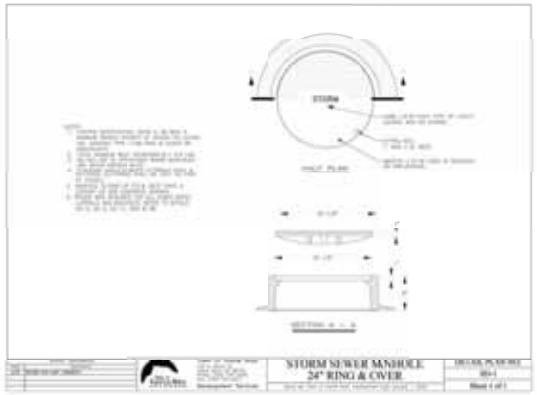
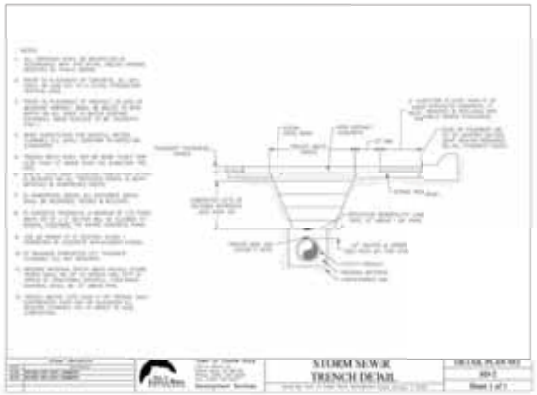
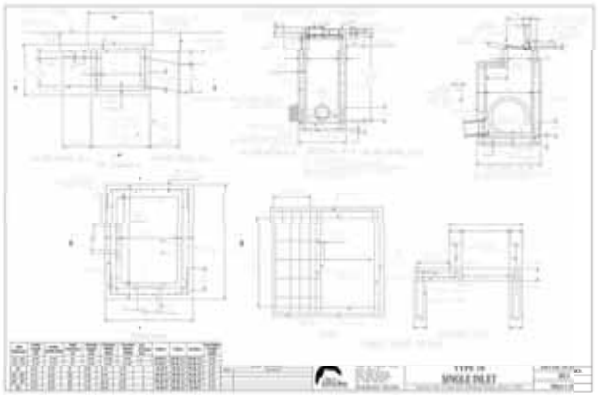
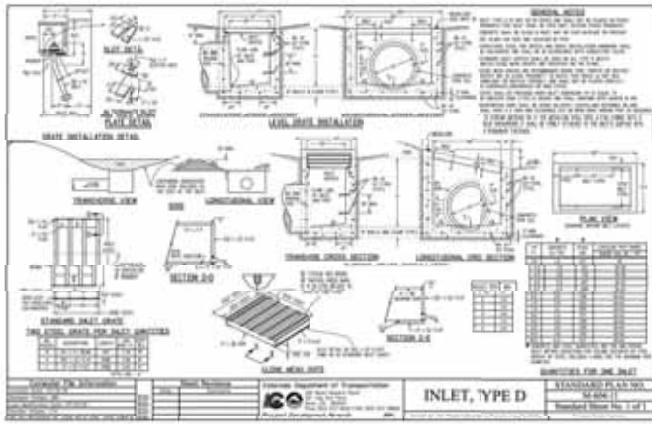
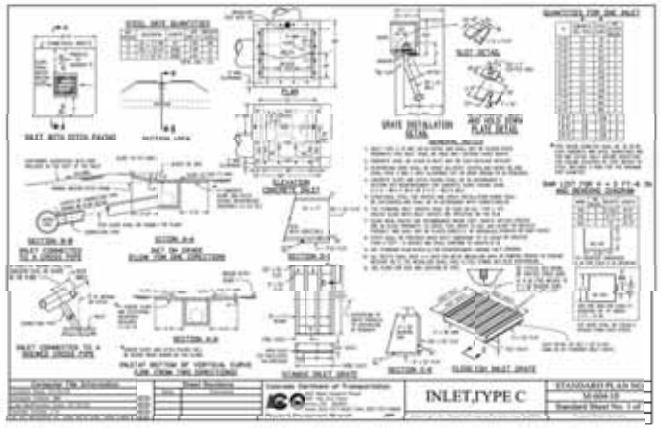
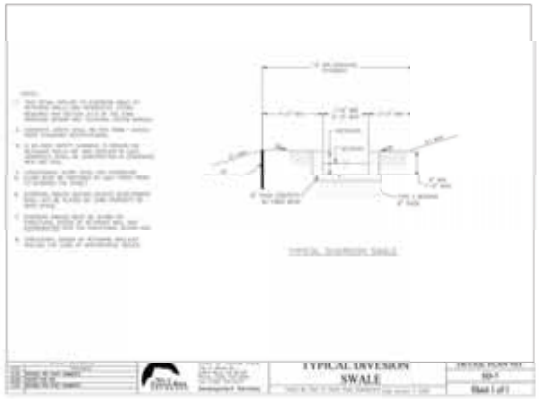


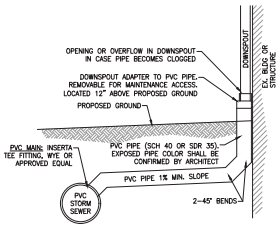




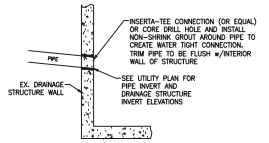








A 19 DOWNSPOUT CONNECTION TO STORM SEWER
SCALE: NTS



B 19 PIPE CONNECTION TO MANHOLE OR INLET
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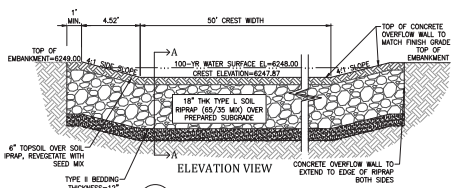
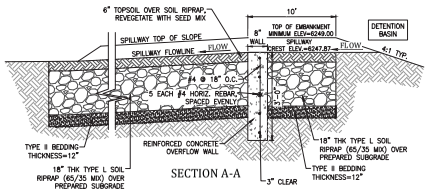


Z 22 EMERGENCY SPILLWAY DETENTION BASIN
SCALE: NTS



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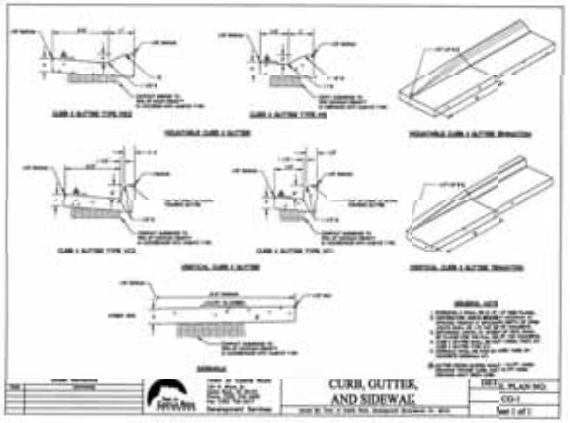
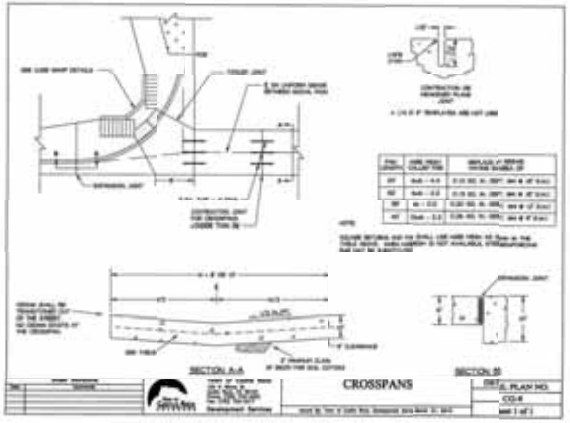
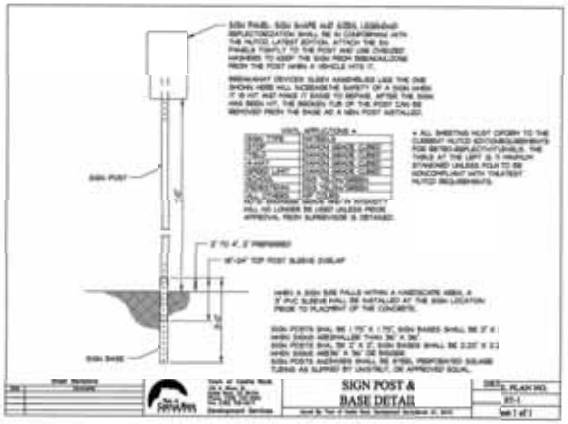
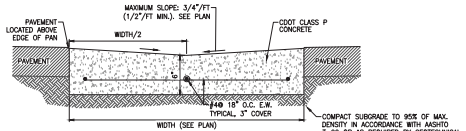


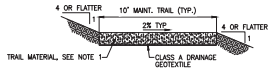






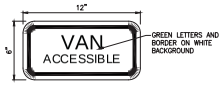
A/20 CONCRETE DRAIN PAN PARKING LOT
SCALE: NTS

NOTES:
1. ACCESS RAMP SHALL BE EITHER REINFORCED CONCRETE OR 8" MIN THICK COMPACTED CDOT CLASS 6 AGGREGATE OR APPROVED EQUIV. OVER SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D698.
2. 10% MAX SLOPE ALONG MAINT. TRAIL.

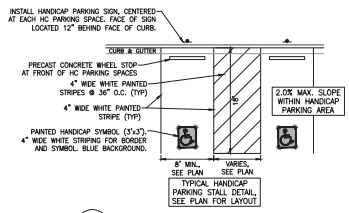


D/20 MAINTENANCE TRAIL SECTION
SCALE: NTS

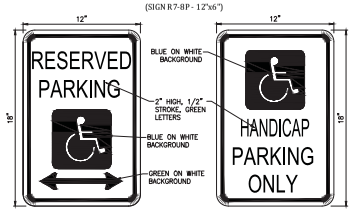
NOTES:
1. ALL TRAFFIC CONTROL AND TRAFFIC SIGNS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT COLORADO SUPPLEMENT AND THE APPROVED PLANS.
2. FIRE LANE SIGNS AND LOCATIONS SHALL BE IN ACCORDANCE WITH THE "FIRE LANE SIGN REQUIREMENTS, CASTLE ROCK FIRE AND RESCUE DEPARTMENT". THE MANUAL INCLUDES DIFFERENT SIGN TYPES THAT ARE ACCEPTABLE.
3. FIRE DEPARTMENT TO DETERMINE THE FIRE LANE SIGN LOCATIONS.



VAN ACCESSIBLE PARKING SIGN
(SIGN R7-8P - 12"x6")



B/20 TYPICAL HANDICAP PARKING STALL
SCALE: NTS



HANDICAP PARKING SIGN
(SIGN R7-8)

ALTERNATE HANDICAP PARKING SIGN

C/20 HANDICAP PARKING SIGN
SCALE: NTS

PROFESSIONAL ENGINEER CERTIFICATION

I hereby affirm that these final construction plans were prepared under my direct supervision, in accordance with all applicable Town of Castle Rock and State of Colorado standards and statutes, respectively; and that I am fully responsible for all design and revisions relative to said plans.

Civil Engineer signature and stamp — Date
Jacob J. McMillen, PE #56736

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

Kiowa Engineering Corporation
5951 Middlefield Road, Suite 200
Littleton, Colorado 80123
(303) 692-0359

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: [illegible]
REVIEWED BY: MWE
DRAWN BY: AMD
DESIGNED BY: JJM
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
DETAIL SHEET-SITE

SHEET ID:
24
Sheet 24 of 47

PROJECT STATUS:
Site Construction Documents

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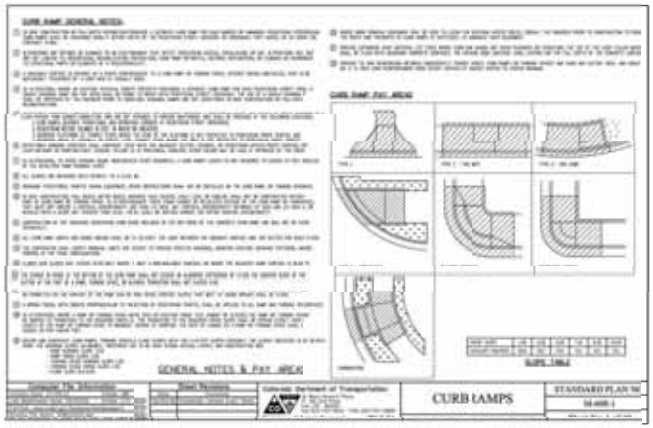

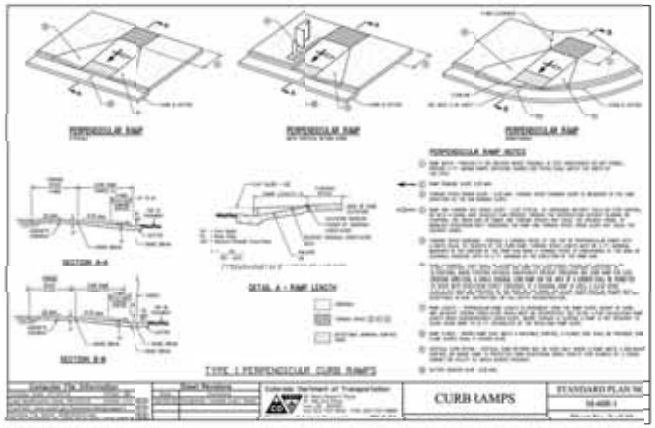

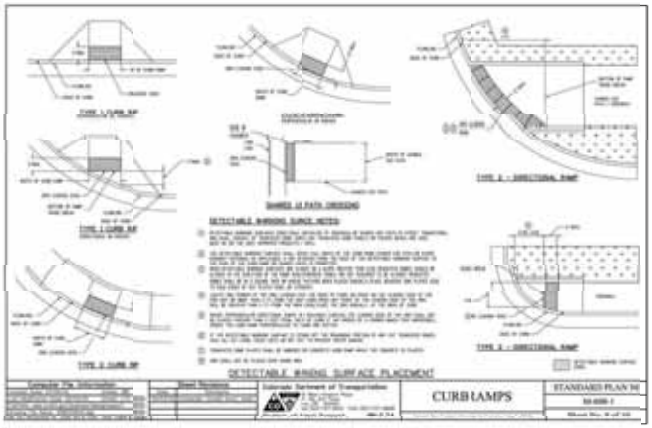

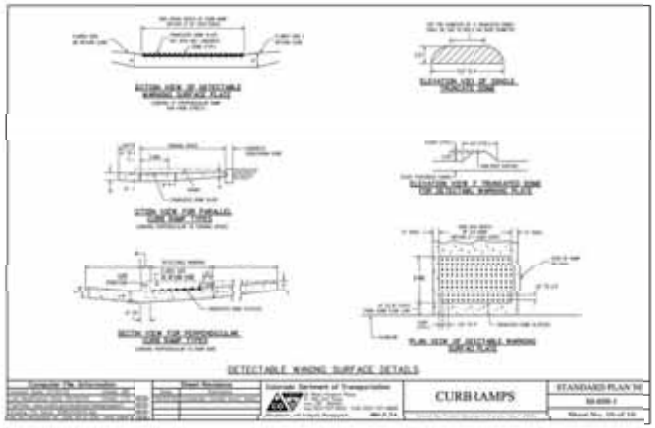

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DESIGNED BY:	JIM

PROJECT NUMBER:
20611004000

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SHEET TITLE:
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SHEET ID:
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Sheet 25 of 47

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SIGNAL PHASING DIAGRAM

1. TRAFFIC SIGNAL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE STATE OF COLORADO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STATE OF COLORADO STANDARD PLANS, M AND S STANDARDS (LATEST EDITION), THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE NATIONAL ELECTRIC CODE (LATEST EDITION), AND ALL LOCAL ORDINANCES AND REGULATIONS THAT APPLY, EXCEPT AS NOTED IN THE PLANS OR SPECIAL PROVISIONS.
2. THE LOCATION AND QUANTITY OF PEDESTRIAN PUSH BUTTON POST ASSEMBLY SHALL BE PRE-APPROVED BY THE ENGINEER PRIOR TO THE CONTRACTOR ORDERING SUCH DEVICES. LOCATES FOR THIS PAY ITEM SHALL BE PERFORMED IN CONJUNCTION WITH THE SIGNAL POLE LOCATES.
3. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE APPROVED SOLID STATE LED TYPE. ALL VEHICLE AND PEDESTRIAN HEAD HOUSINGS SHALL BE YELLOW IN COLOR. TRAFFIC SIGNALS THAT ARE MOUNTED ON MAST ARMS SHALL BE FURNISHED WITH MOUNTING BRACKET AND BLACK LOUVERED BACKING PLATES WITH 15 INCH BORDER OF YELLOW K TYPE MATERIAL PER THE LATEST CMM SWAR SWAR SHEETING REFERENCE GUIDE. MAST ARMS SHALL BE OF SUFFICIENT LENGTH TO ALLOW ALL SIGNAL HEADS TO BE CENTERED OVER OUTBOUND LANES. NEITHER LOUVERS NOR TYPE K MATERIALS SHALL BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF TRAFFIC SIGNAL FACE.
4. THE SIGNAL SHALL NOT BE PUT IN FLASH MODE OR MADE FULLY OPERATIONAL UNTIL THE CONTRACTOR HAS INSPECTED AND APPROVED THE INSTALLATION AND ALL REGULATORY SIGNING AND PAVEMENT MARKINGS ARE IN PLACE.
5. ¾ INCH PERFORATED JOINT MATERIAL SHALL BE APPLIED AROUND THE 16 INCHES OF LEVELING CONCRETE BENEATH SIGNAL POLES WHEN THE SIGNAL POLE IS INSTALLED IN EXISTING CONCRETE AND CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
6. UNLESS OTHERWISE SPECIFIED IN THE PLANS OR CONTRACT, ALL USED OR EXCESS SIGNAL EQUIPMENT SHALL REMAIN THE PROPERTY OF TOWN OF CASTLE ROCK.
7. CONTRACTOR'S SIGNAL ELECTRICIAN IS REQUIRED TO BE ON SITE, AT A MINIMUM, DURING 8 AM TO 8 PM PEAK HOURS FOLLOWING THE NEXT DAY A SIGNAL IS TURNED ON TO OBSERVE OPERATIONS AND MAKE ADJUSTMENTS AS NEEDED. THE ENGINEER MAY REQUIRE THE SIGNAL ELECTRICIAN TO BE ON SITE DURING OFF PEAK HOURS WHEN TEMPORARY SIGNALS ARE NEEDED. THE ENGINEER MAY REQUIRE TEMPORARY INSTALLATIONS; SEE PROJECT SPECIAL PROVISIONS FOR WORK FORCE REQUIREMENTS AND THE TRAFFIC SIGNAL MAINTENANCE PLAN.
8. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING REQUIREMENTS REGARDING TRAFFIC SIGNAL CONSTRUCTION AND MAINTENANCE PERSONNEL:
   - 8.A. MUNICIPAL SIGNAL ASSOCIATION (IMSA) LEVEL II CERTIFIED ELECTRICIAN IS REQUIRED FOR CONSTRUCTION, MAINTENANCE, AND TROUBLESHOOTING. THIS INCLUDES THE COMPLETION OF TRAINING IN CONSTRUCTION, CORRECTIVE MAINTENANCE, AND SIGNAL TURN-ON.
   - 8.B. FOR ALL WORK EXTERNAL TO THE SIGNAL CABINET, A MINIMUM LEVEL I TRAFFIC SIGNAL FIELD TECHNICIAN/ELECTRICIAN, OR TRAFFIC SIGNAL CREW TECHNICIAN/SIGNAL ELECTRICIAN, IS REQUIRED. A JOURNEYMAN ELECTRICIAN AND AN IMSA LEVEL II TRAFFIC SIGNAL ELECTRICIAN SHALL BE ON THE JOB SITE AT ALL TIMES THAT THE SIGNALIZATION WORK IS TAKING PLACE TO ENSURE PROPER CONSTRUCTION. FOR EACH JOURNEYMAN ELECTRICIAN PRESENT, A MAXIMUM OF 3 APPRENTICE ELECTRICIANS WILL BE ALLOWED FOR WORK EXTERNAL TO THE SIGNAL CABINET.
   - 8.C. A MAXIMUM RATIO OF FOUR IMSA LEVEL I TO ONE IMSA LEVEL II WILL BE ALLOWED FOR WORK EXTERNAL TO THE SIGNAL CABINET. UNITED STATES DEPARTMENT OF LABOR - BUREAU OF APPRENTICESHIP AND TRAINING MAY BE SUBSTITUTED FOR THE IMSA LEVEL I TRAFFIC SIGNAL ELECTRICIAN REQUIREMENT.
9. LUMP SUM ITEMS ARE PROJECT WIDE ITEMS. ITEM 613-00000, WIRING (LUMP SUM), SHALL INCLUDE ALL NECESSARY WIRING WORK, NOT OTHERWISE INCLUDED IN AN INDIVIDUAL PAY ITEM. ALL WIRING WORK FOR SIGNALS, LIGHTING, AND ITS WILL BE COMPLETE AND THE SYSTEMS SHALL BE FULLY FUNCTIONAL BEFORE WIRING IS PAID.
10. THE LOCAL POWER COMPANY, AS DETAILED IN THE UTILITIES SPECIFICATIONS, MUST BE COORDINATED WITH FOR ALTERATIONS TO EXISTING POWER SOURCES AND INSTALLATION OF NEW ELECTRICAL SERVICE METERS.
11. UNIFORMED TRAFFIC CONTROL SHALL BE UTILIZED WHILE MODIFYING OPERATIONS AT A SIGNALIZED INTERSECTION.
12. TWO OR MORE WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TEMPORARY PHASING AND TIMING SIGNAL PLANS TO THE ENGINEER FOR APPROVAL.
13. THE CONTRACTOR SHALL PROVIDE COPIES OF AT LEAST FOUR (4) SETS OF EQUIPMENT SPECIFICATIONS/DESCRIPTIONS AND OBTAIN APPROVALS PRIOR TO ORDERING THE EQUIPMENT.
14. ALL MANUALS, INSTALLATION GUIDES AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED TO THE ENGINEER AT TIME OF INSPECTION.
15. CONCRETE CABINET BASE SHALL BE SHOWN ON THE PLANS. THE NEW SIGNAL CONTROL CABINET SHALL BE MOUNTED ON A PREFORMED FIBERGLASS OR CONCRETE BASE. SIGNAL SPECIFICATIONS SHALL INDICATE INPUT AND OUTPUT.
16. ITEM 614-86800, UNINTERRUPTIBLE POWER SUPPLY (UPS) SHALL BE PROVIDED TO RUN THE SIGNAL FOR 8 HOURS IN ALL PHASES, AND FLASH FOR FOUR ADDITIONAL HOURS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND OPERATIONS OF THE SIGNALS DURING CONSTRUCTION.

TRAFFIC SIGNAL TABULATION

ITEM NO.	ITEM DESCRIPTION	UNIT	CASTLE OAKS DRIVE	TOTAL
503-00042	DRILLED SHAFT (42 INCH)	LF	17	17
613-00200	2 INCH ELECTRICAL CONDUIT	LF	40	40
613-00300	3 INCH ELECTRICAL CONDUIT	LF	10	10
613-07004	TYPE FOUR PULL BOX	EACH	1	1
613-07005	TYPE FIVE PULL BOX	EACH	1	1
613-10000	WIRING	LS	1	1
613-13000	LUMINAIRE (LED)	EACH	1	1
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	5	5
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1	1
614-72866	FIRE PREEMPTION UNIT AND TIMER (SYSTEM)	EACH	1	1
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45 FOOT MAST ARM)	EACH	1	1
614-86105	TELEMETRY (FIELD)	EACH	1	1
614-86800	UNINTERRUPTED POWER SUPPLY	EACH	1	1
614-87320	CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC SURVEILLANCE)	EACH	1	1
614-87691	ETHERNET SWITCH	EACH	1	1

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Development Services Date

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Traffic Engineer signature and stamp Date
Theodore Scarberry PE # 49336

RS&H
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Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/16/2026
REVIEWED BY: TJS
DRAWN BY: WWS
DESIGNED BY: WWS
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
SITE CONSTRUCTION DOCUMENTS
SIGNALIZATION
GENERAL NOTES

SHEET ID: 26
Sheet 26 of 47

PROJECT STATUS:
Site Construction Documents

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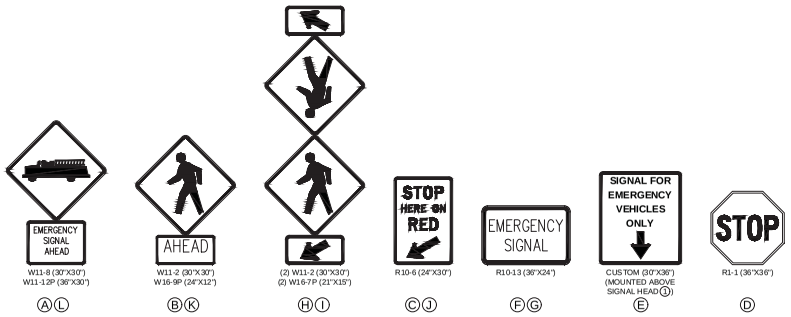
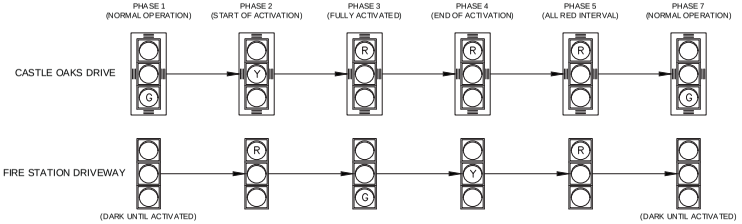
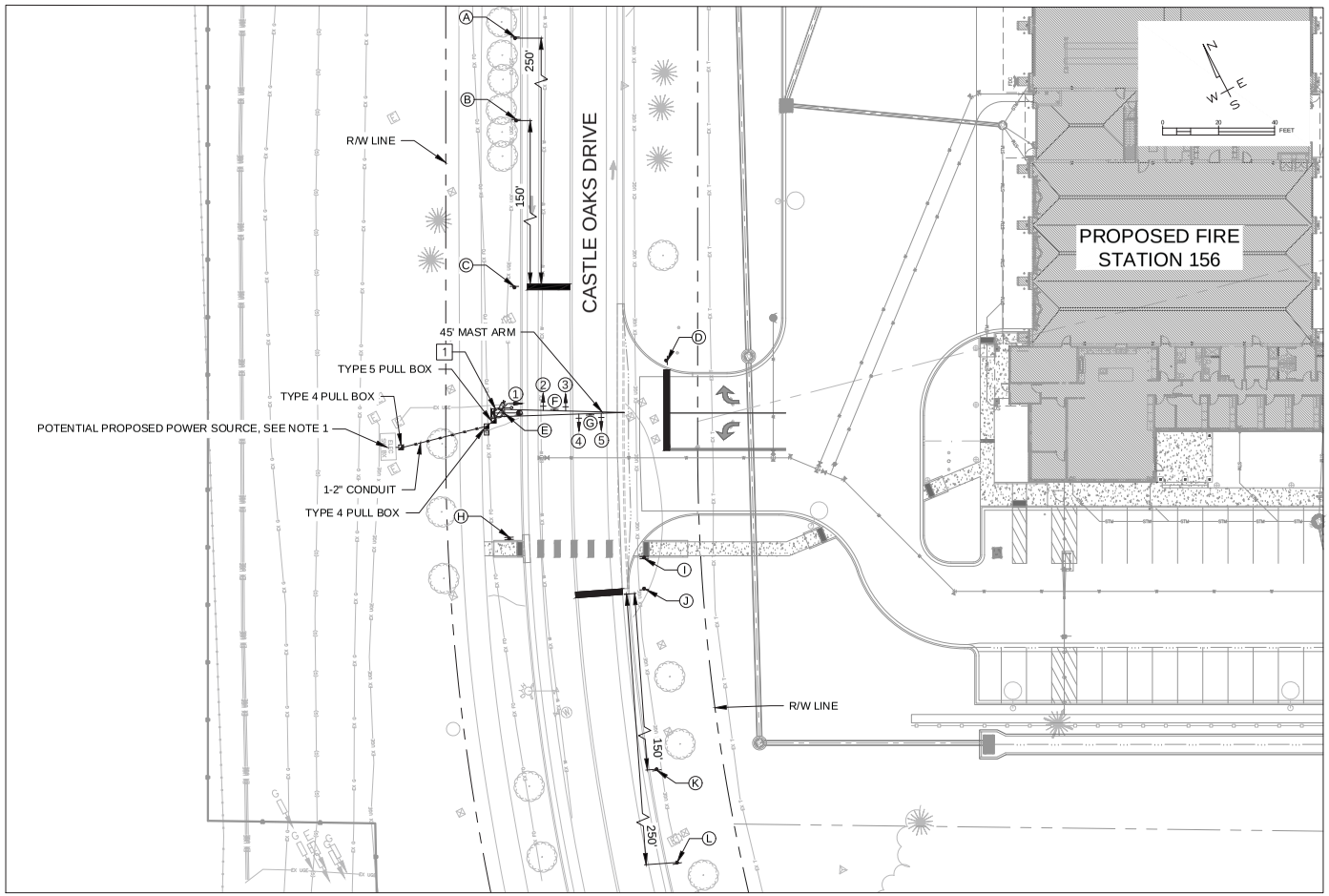
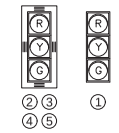


SIGN PANEL DETAILS



EMERGENCY SIGNAL PHASING SEQUENCE





SIGNAL HEADS (12"):

1	2	3	4
N/A		N/A	
5	6	7	8
N/A		N/A	N/A

SIGNAL PHASING DIAGRAM

TRAFFIC SIGNAL POLE DATA	
POLE	1
NORTHING	1575820.271
EASTING	3196293.804
TOP OF CAISSON ELEV.	6250.44'
MAST ARM LENGTH	45'-0"
CAISSON DIAMETER	3'-6"
CAISSON DEPTH	16'-6"
CAISSON PAY DEPTH	17'-0"
CDOT STD. PLAN NUMBER	S-614-40

LEGEND:

- LUMINAIRE
- SIGNAL FACE
- SIGNAL FACE WITH BACKPLATE
- TRAFFIC SIGNAL CONTROLLER CABINET (MOUNTED TO MAST ARM UPRIGHT)
- ELECTRIC SERVICE METER CABINET
- PULL BOX - TRAFFIC
- TRAFFIC SIGNAL POLE WITH MAST ARM
- TRAFFIC CONDUIT
- TRAFFIC SIGN ON MAST ARM
- CCTV — CLOSED CIRCUIT TELEVISION
- EMERGENCY VEHICLE PREEMPTIVE SYSTEM
- GROUND MOUNT SIGN POST & PANEL(S)

NOTE:

1. POWER SOURCE TO BE COORDINATED WITH CORE ELECTRIC ONCE THE PRELIMINARY SIGNAL DESIGN IS COMPLETED. POWER SOURCE SHALL BE SEPARATE FROM THE POWER SOURCE FOR THE FIRE STATION.

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Development Services — Date

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY:	WWS
DESIGNED BY:	WWS
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
SITE CONSTRUCTION DOCUMENTS SIGNALIZATION PLAN

SHEET ID:
27
Sheet 27 of 47

PROJECT STATUS:
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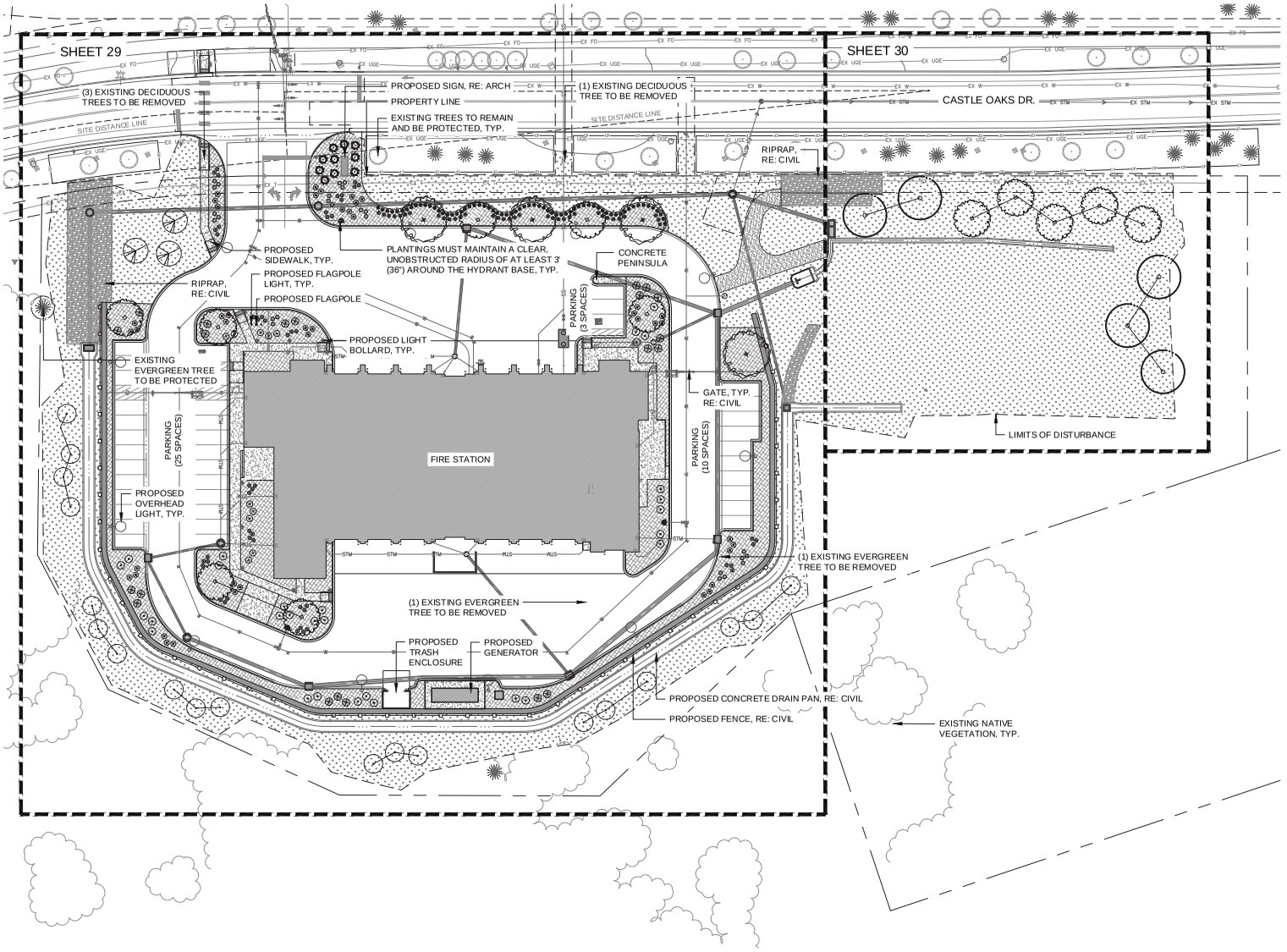

LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- EASEMENT LINE
- NATIVE GRASS SEED MIX
- CRUSHED ¾" GRANITE ROCK MULCH
- PROPOSED RIPRAP, RE: CIV
- ORANGE CONSTRUCTION FENCE
- GATE/FENCE, RE: CIVIL
- WATER UTILITY
- SANITARY UTILITY
- STORMWATER UTILITY
- FIRE HYDRANT
- PROPOSED ENTRY SIGN
- STEEL EDGER
- PROPOSED FENCE
- GRAVEL ACCESS ROAD, RE: CIVIL
- CONCRETE, RE: CIVIL
- DECIDUOUS TREE
- EVERGREEN TREE
- SHRUBS
- ORNAMENTAL GRASSES

NOTE:
1. REFER TO SHEET 31 FOR PLANTING NOTES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM, EDGERS, MULCH AND ANY OTHER EXISTING LANDSCAPE THAT IS A RESULT OF WORK. THE REPAIR OF SUCH DAMAGE WILL BE AT NO ADDITIONAL COST TO THE OWNER.

REGISTERED LANDSCAPE ARCHITECT:
MARK WILCOX,
Signature _____ PLA License 204

SCALE: 1"=30'-0" (0, 15, 30, 60)

NORTH

Know what's Below. Call before you dig.

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Approved By:

Development Services Date

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DHM DESIGN

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REVIEWED BY:	AQ
DRAWN BY:	JN
DESIGNED BY:	AQ
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
OVERALL LANDSCAPE PLAN

SHEET ID:
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PROJECT STATUS:
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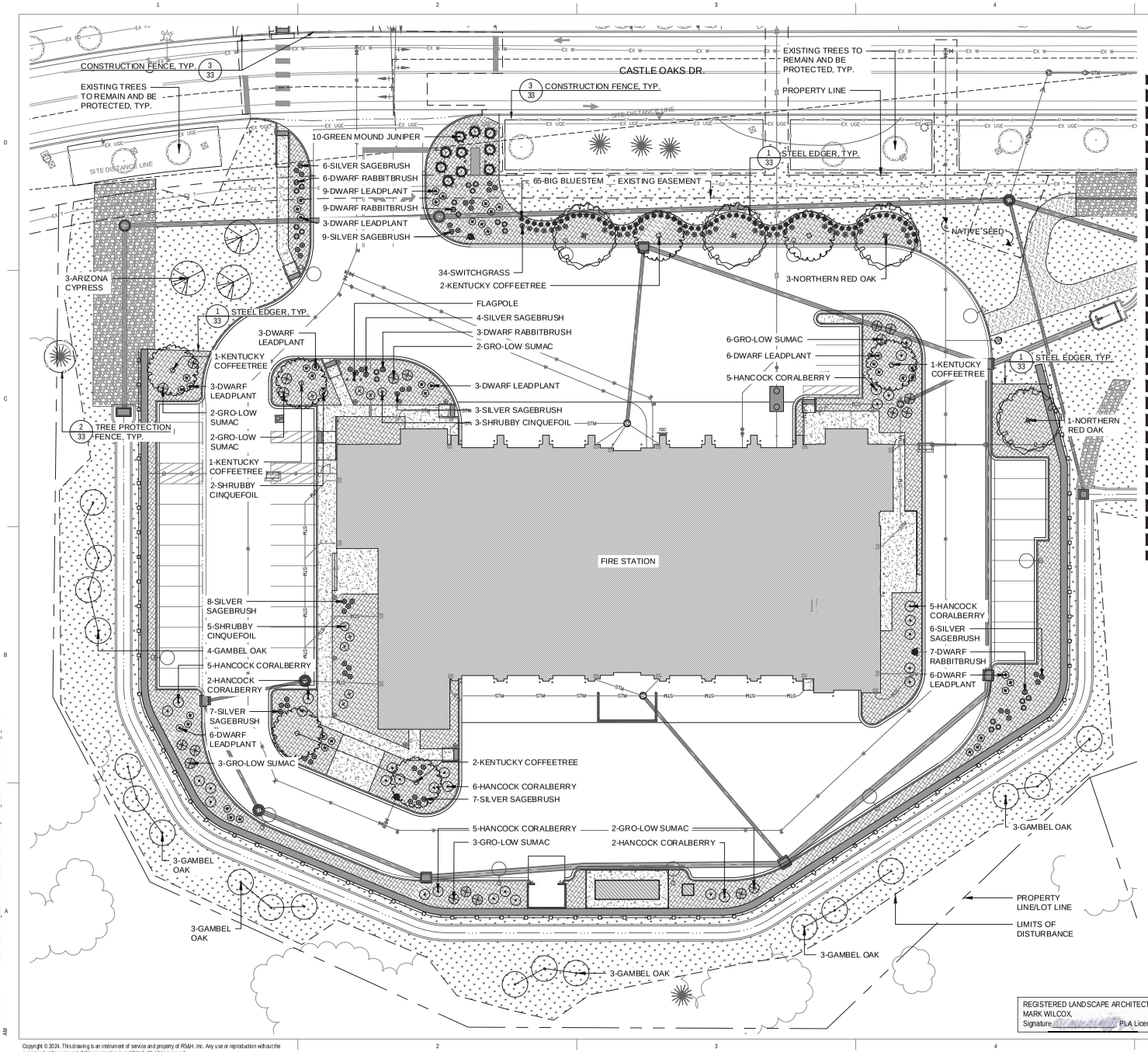

LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- EASEMENT LINE
- NATIVE GRASS SEED MIX
- CRUSHED 3/4" GRANITE ROCK MULCH
- PROPOSED RIPRAP, RE: CIVIL
- ORANGE CONSTRUCTION FENCE
- GATE/FENCE, RE: CIVIL
- WATER UTILITY
- SANITARY UTILITY
- STORMWATER UTILITY
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- STEEL EDGER
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SCALE: 1"=20'-0" 0 10 20 40 NORTH

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Development Services Date

REGISTERED LANDSCAPE ARCHITECT:
MARK WILCOX,
Signature PLA License 204

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SHEET TITLE:
LANDSCAPE PLAN ENLARGEMENT

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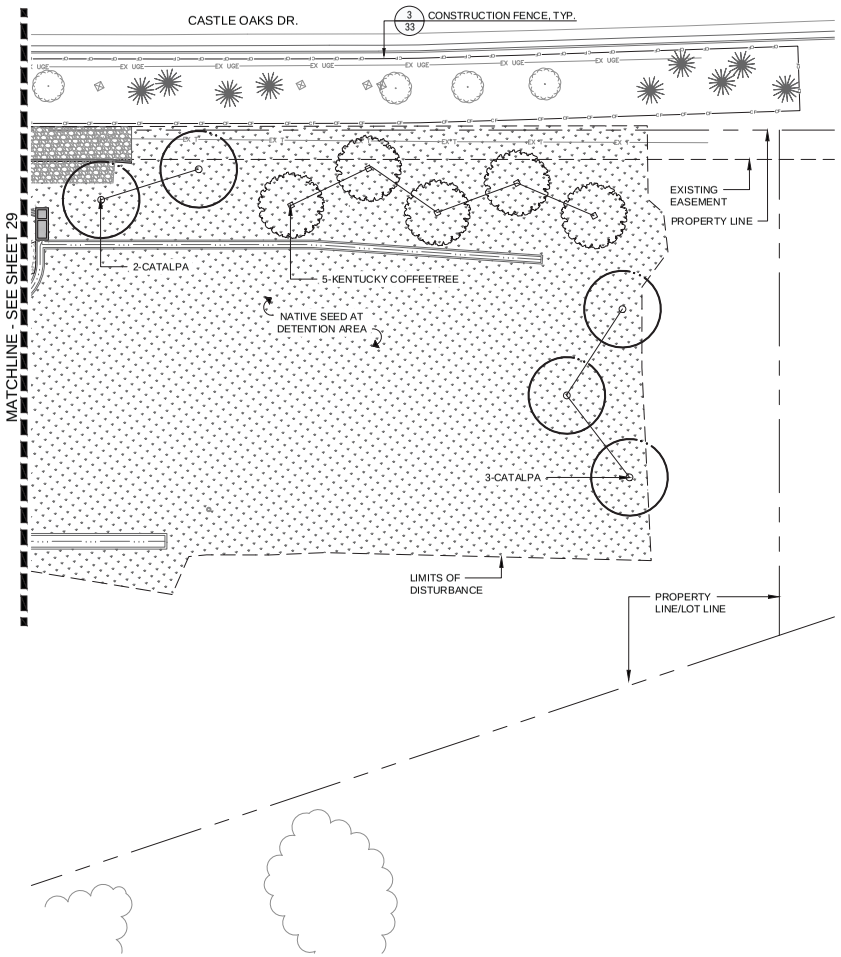

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- SANITARY UTILITY
- STORMWATER UTILITY
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- PROPOSED ENTRY SIGN
- STEEL EDGER
- PROPOSED FENCE
- GRAVEL ACCESS ROAD, RE: CIVIL
- CONCRETE, RE: CIVIL
- DECIDUOUS TREE

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REGISTERED LANDSCAPE ARCHITECT:
MARK WILCOX,
Signature _____ PLA License 204

SCALE: 1"=20'-0" (0, 10, 20, 40)

NORTH

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Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

DHM DESIGN

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/16/2026
REVIEWED BY:	AQ
DRAWN BY:	JN
DESIGNED BY:	AQ
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
LANDSCAPE PLAN ENLARGEMENT

SHEET ID:
30
Sheet: 30 of 47

PROJECT STATUS:
Site Construction Documents

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SECTION 7 LANDSCAPE SUMMARY TABLE:

Gross Site Area	Required Landscape *(10% of the gross site area)*	Existing Landscape (If Applicable)	Provided Landscape Area	Required Trees *(2 trees / 1,000 sqft)*	Provided Trees	Required Shrubs *(4 shrubs / 1,000 sqft)*	Provided Shrubs	Soil Prep Amounts (cu.yds. Per 1000 SF)
214,523	21,452	0	74,258	43	43	86	177	13

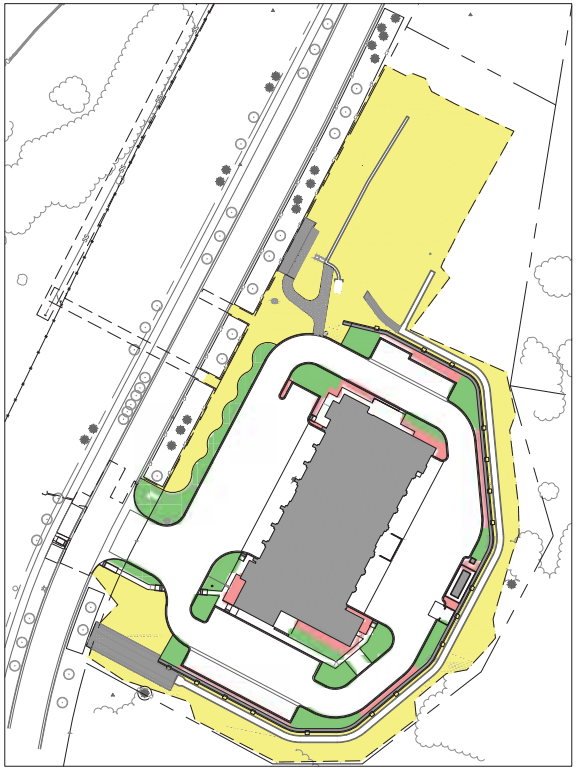
Turf Grass Square Footage (SF)*	Required Landscape Coverage Percentage *(75% minimum)*	Existing Landscape (If Applicable)	Provided Landscape Coverage at Maturity (SF)	Required Nonliving Ornamental Percentage *(25% maximum)*	Provided Nonliving Ornamental Area in Landscape (SF)	Required Large Canopy Deciduous Tree (50% minimum)	Provided Large Canopy Deciduous Shade Tree	Separate Irrigation Service Connections
0	16,089	0	74,258	5,363	4,846	21	21	Yes__X__ No ____

Parking Lot*

Parking Lot Area	Landscaping Area Required *(10% of square footage)*	Existing Landscape (If Applicable)	Landscaped Area Provided	Required Trees** *(2 large canopy deciduous shade trees / 1,000 sqft)*	Provided Trees	Required Shrubs** *(4 shrubs / 1,000 sqft)*	Provided Shrubs
14,444	1,444	0	1,679	3	4	6	12

GROSS SITE AREA:	214,523 SQFT
TOTAL LANDSCAPE AREA:	74,258 SQFT (35%)
IRRIGATED LANDSCAPE:	13,153 SQFT (6%)
NON-IRRIGATED LANDSCAPE:	61,105 SQFT (28%)
NON-LIVING GROUND COVER:	4,846 SQFT (2%)

HYDROZONE MAP



NORTH
NTS

HYDROZONE LEGEND

NONE

LOW - DRIP IRRIGATION

TEMPORARY IRRIGATION - INSTALLED ABOVE GRADE AND TO BE REMOVED AFTER SEEDING ESTABLISHED

PLANTING NOTES

1. CONTRACTOR TO SPOT SEED NON-GERMINATING AREAS (3) MONTHS AFTER INITIAL SEED APPLICATION. CONTRACTOR TO RESEED ALL BARE AREAS (6'X6') AND GREATER AFTER (6) MONTHS FROM SEED GERMINATION OR AT THE BEGINNING OF THE FOLLOWING GROWING SEASON. PRIOR TO THE 11-MONTH WARRANTY INSPECTION REAPPLY SOIL GUARD AND SEED MIX TO ALL BARE AREAS (6'X6' OR GREATER) AND ON ALL SLOPES (4'X4') 3:1.
2. NATIVE SEED IN DISTURBED AREAS SHALL BE ESTABLISHED WITH TEMPORARY IRRIGATION. PLEASE SEE TOWN OF CASTLE ROCK TEMPORARY IRRIGATION FOR NON-IRRIGATED NATIVE AREAS CRITERIA 2.1.17.
3. ALL TREE LOCATIONS WITHIN NATIVE SEED AREAS ARE TO BE MULCHED WITH 4" DEPTH FIR FIBER MULCH (WITHOUT FILTER FABRIC) EXCEPT WHERE NOTED ON PLANS. ROCK MULCH WITHIN SHRUB BEDS TO BE 3/4" CRUSHED GRANITE MULCH AT A MINIMUM DEPTH OF 3" OVER FILTER FABRIC. INSTALL MULCH 1" BELOW ALL CURBS AND SIDEWALKS.
4. LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN A NEAT, CLEAN AND HEALTHY CONDITION BY LANDSCAPE CONTRACTOR. THIS SHALL INCLUDE PROPER PRUNING, MOWING OF LAWNS, WEEDS, REMOVAL OF LITTER AND THE REGULAR WATERING OF ALL PLANTINGS. SHOULD ANY PLANT MATERIAL DIE, LANDSCAPE CONTRACTOR, SUCCESSOR, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF THE PLANTS WITHIN 45 DAYS.

TOWN OF CASTLE ROCK LANDSCAPE NOTES

1. INSTALLING CONTRACTOR SHALL CONTACT CASTLE ROCK WATER AT 720.733.6017 TO SCHEDULE A PRE-CONSTRUCTION MEETING BEFORE BEGINNING THE INSTALLATION OF THE LANDSCAPING.
2. LANDSCAPE AND IRRIGATION SHALL BE INSTALLED BY A TOWN OF CASTLE ROCK REGISTERED LANDSCAPE CONTRACT PROFESSIONAL.
3. SOIL INSPECTION IS REQUIRED BEFORE PLANT INSTALLATION AND SCHEDULING SOIL INSPECTION SHOULD BE DISCUSSED AT THE LANDSCAPE PRECONSTRUCTION MEETING.
4. INSTALLING CONTRACTOR IS TO PROVIDE SUBMITTAL FROM SUPPLIERS FOR SOD AND NATIVE SEED MIX AT TIME OF LANDSCAPE INSPECTION.
5. SOIL AMENDMENT SHALL BE A MINIMUM OF FOUR (4) CUBIC YARDS OF ORGANIC MATTER PER ONE-THOUSAND SQUARE FEET. THIS SOIL AMENDMENT SHALL BE ROTOTILLED TO A DEPTH OF SIX (6) INCHES. CLASS I OR CLASS II COMPOST IS REQUIRED.
6. TREES, LARGE SHRUBS AND PERMANENT OBJECTS ARE NOT PERMITTED IN WATER, SANITARY AND STORM SEWER UTILITY EASEMENTS.
7. ALL LANDSCAPE IS TO BE INSTALLED PER TOWN OF CASTLE ROCK PLANTING DETAILS.
8. PLANT SPECIES AND LOCATION SHOULD FOLLOW THE APPROVED PLAN, IF SITE CONDITIONS OR PLANT AVAILABILITY REQUIRE CHANGES TO THE PLAN, THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE TOWN OF CASTLE ROCK AND THE OWNER'S REPRESENTATIVE.
9. TOWN OF CASTLE ROCK IS NOT RESPONSIBLE FOR REPLACING LANDSCAPE OR IRRIGATION REMOVED IN UTILITY EASEMENTS DUE TO UTILITY LINE MAINTENANCE OR REPAIR (PWR 14.3.13)
10. TOWN PERMIT AND TOWN APPROVED LANDSCAPE PLANS ARE REQUIRED ON SITE DURING INSTALLATION OF THE LANDSCAPE AND IRRIGATION.
11. TOWN INSPECTORS WILL NOT APPROVE LANDSCAPE AND OVERHEAD IRRIGATION ON SLOPES STEEPER THAN 3:1.
12. OVERHEAD IRRIGATION IS NOT PERMITTED ON SLOPES EQUAL TO 3:1 OR IN AREAS LESS THAN 10' IN WIDTH.

PLANT SCHEDULE

TOWN OF CASTLE ROCK COLORADO

Registered Professional MARK WILCOX PLA # 204
Company Name DHM Design Corp Address 900 S. Broadway Denver, CO 80209
Phone 303.892.5566 Email mwilcox@dhmdesign.com

HydroZone	Plant Name (scientific)	Plant Name (common)	Size	Quantity
Deciduous Shade Trees				
Very Low, Low, Medium, High	Catalpa speciosa	Catalpa	2" cal.	5
Low, Medium	Gymnocladus dioica	Kentucky Coffeetree	2" cal.	12
Low, Medium	Quercus rubra	Northern Red Oak	2" cal.	4
Evergreen Trees				
Low	Cupressus arizonica var. glabra	Arizona Cypress	6' Ht.	3
Ornamental Trees				
Very Low, Low	Quercus gambelii	Gambel Oak	1.5" cal.	19
Deciduous Shrubs				
Very Low	Amorpha nana	Dwarf Leadplant	#5	42
Very Low	Artemisia cana	Silver Sagebrush	#5	50
Very Low, Low	Chrysothamnus nauseosus *'Dwarf Blue'*	Dwarf Rabbitbrush	#5	25
Very Low, Low	Rhus aromatica *'Grow-Low'*	Gro-Low Sumac	#5	20
Low, Medium	Symphoricarpos × chenaultii *'Hancock'*	Hancock Coralberry	#5	30
Very Low, Low	Potentilla fruticosa	Shrubby Cinquefoil	#5	10
Evergreen Shrubs				
Low	Juniperus procumbens *'Green Mound'*	Green Mound Juniper	#5	10
Ornamental Grasses				
Very Low, Low	Andropogon gerardii	Big Bluestem	#1	65
Very low, Low	Panicum virgatum	Switchgrass	#1	34

NON-IRRIGATED NATIVE SEED MIX (1.4 AC)

Botanical Name	Common Name	Mature Height	Pounds of PLS Per Acres	Hydrozone
Andropogon gerardi	Big Bluestem	12"-36"	1.1	Very Low, Low
Bouteloua curtipendula	Sideoats Grama	12"-24"	0.9	Very Low, Low
Bouteloua gracilis	Blue Grama Grass	12"-24"	0.3	Very Low, Low
Calamovilfa longifolia	Prairie Sandreed	24"-48"	0.7	Very Low, Low
Elymus lanceolatus dasystachyum	Thickspike Wheatgrass	24"-48"	1	Very Low, Low
Elymus lanceolatus	Streambank Wheatgrass	12"-24"	0.6	Very Low, Low
Elymus trachycaulus	Slender Wheatgrass	12"-24"	0.6	Very Low, Low
Panicum virgatum	Switchgrass	24"-48"	0.4	Very Low, Low
Nassella viridula	Green Needlegrass	24"-56"	1	Very Low, Low
Pascopyrum smithii	Western Wheatgrass	12"-24"	1.6	Very Low, Low
Sorghastrum nutans	Yellow Indiangrass	24"-48"	1	Very Low, Low

Drill Seeded Rate: 9.2
Mechanical Broadcast Rate: 9.2
Hand Broadcast Rate: 18.4

SOIL AMENDMENTS:

Ground Plane Treatment	CLASS II OM AMENDMENT	NITROGEN	PHOSPHORUS	OTHER	FERTILIZER	E.C., SALT OR PH TREATMENT
Trees	4 c.u.yds/1000sf	1.5lb/1000sf (K)	2lb/1000sf (K)	0lb/1000sf (K)	10-10-10 @ 15lb./1000sf	N/A
Shrubs	4 c.u.yds/1000sf	1.5lb/1000sf (K)	2lb/1000sf (K)	0lb/1000sf (K)	10-10-10 @ 15lb./1000sf	N/A

REGISTERED LANDSCAPE ARCHITECT:
MARK WILCOX,
Signature _____ PLA License 204

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

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SHEET TITLE:
LANDSCAPE PLANTING NOTES

SHEET ID:
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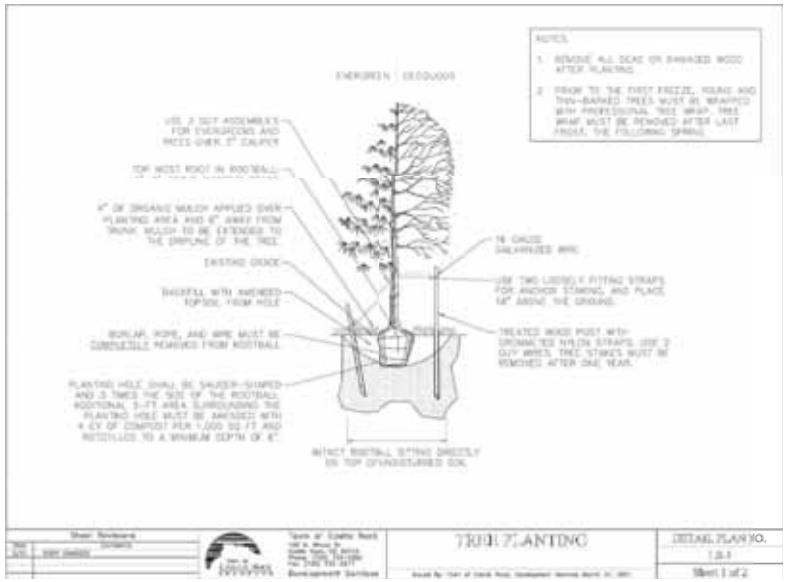

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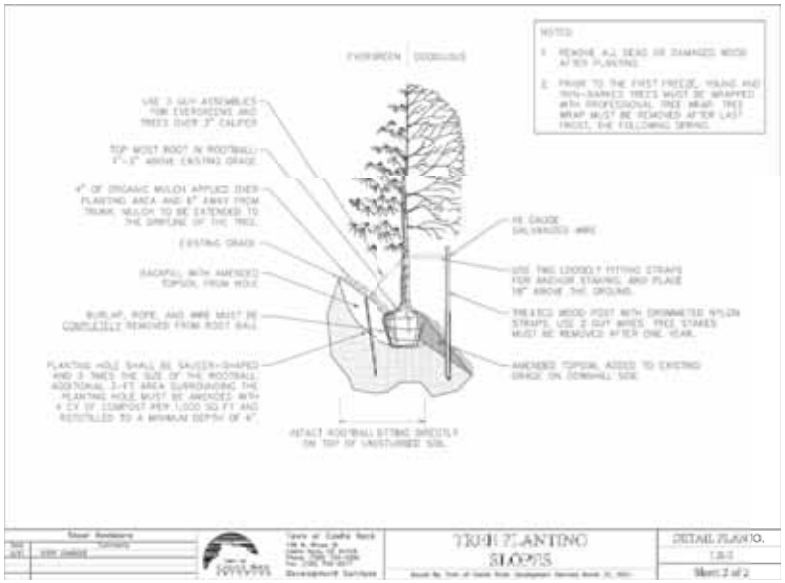
TYP. EVERGREEN/DECIDUOUS TREE PLANTING

NOT TO SCALE



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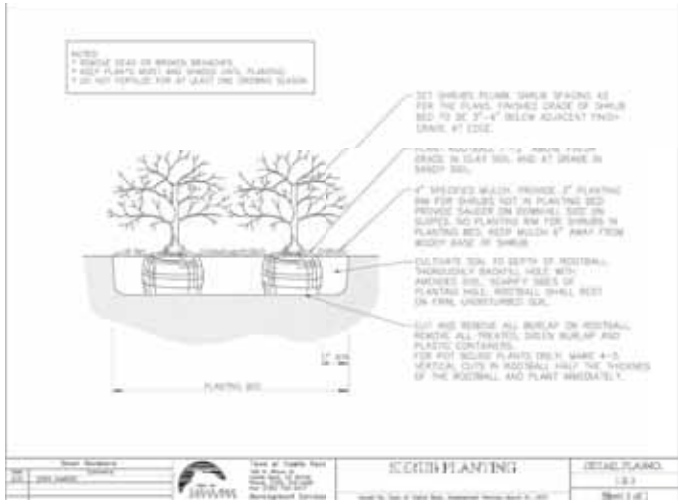
32

TYP. EVERGREEN/DECIDUOUS TREE PLANTING ON SLOPE

NOT TO SCALE



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32

TYP. SHRUB PLANTING

NOT TO SCALE

REGISTERED LANDSCAPE ARCHITECT:
MARK WILCOX,
Signature _____ PLA License 204

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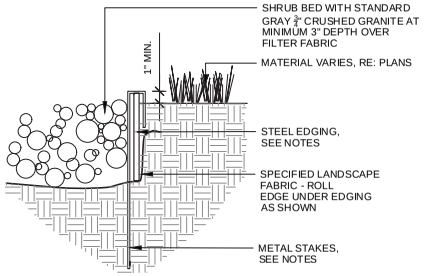
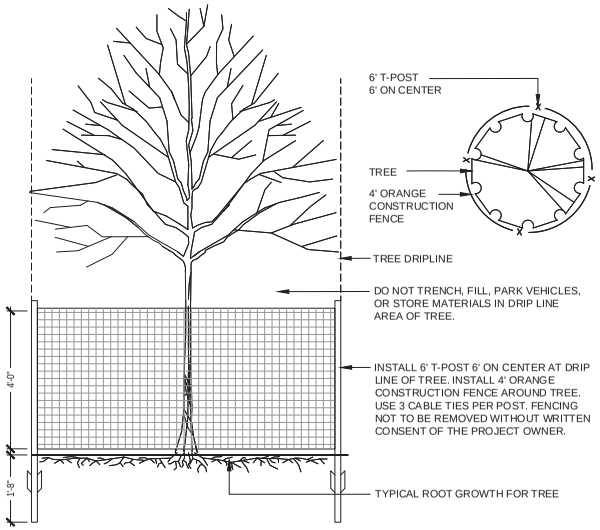


NOTES:
1. STEEL LANDSCAPE EDGING TO BE 4" DEPTH, 16 GA THICK, ROLLED TOP, WITH LINE STAKES AND SPLICER STAKES AS RECOMMEND BY MANUFACTURER. COLOR TO BE GREEN. PRODUCT: TERRA EDGE, AS MANUFACTURED BY COYOTE LANDSCAPE PRODUCTS, OR APPROVED EQUAL.
2. INSTALL STEEL EDGING WHERE INDICATED, ACCORDING TO MANUFACTURES RECOMMENDATIONS. ANCHOR WITH STEEL STAKES SPACED 12" MINIMUM INTERLOCKING, DRIVEN BELOW EDGING.
3. SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
4. EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS.
5. ALL JOINTS TO BE SECURELY STAKED.

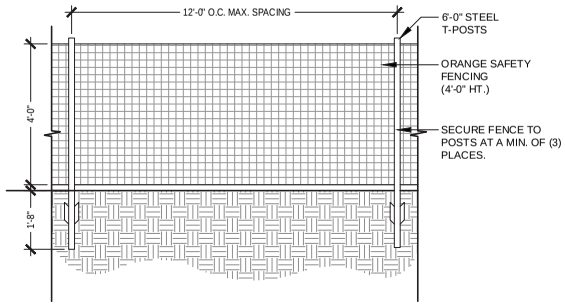
1/33 STEEL EDGER

NOT TO SCALE



2/33 TREE PROTECTION FENCE

NOT TO SCALE



3/33 CONSTRUCTION FENCE

NOT TO SCALE

REGISTERED LANDSCAPE ARCHITECT:
MARK WILCOX,
Signature _____ PLA License 204

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
	RAIN BIRD/TORO	1812-SAM-PRS WITH "O" PRECISION SERIES NOZZLE	HI-POP SPRAY HEAD	8
	RAIN BIRD	5012-PL-PC-SAM WITH #NOZ	HI-POP GEAR DRIVEN ROTOR	9
	RAIN BIRD/ WEATHERMATIC	PEB W/ SLDEC1	ELECTRIC CONTROL VALVE W/ DECODER	TOCR IR-16 & IR-17 & 1 & 10
	RAIN BIRD	44-LRC	QUICK COUPLING VALVE	TOCR IR-6 & TOCR IR-9B
	WEATHERMATIC	VAR #SL4836-1YR-BDL-FLOW-M1NA WITH SLPED-ENC-SS - 36 STATIONS	ELECTRIC CONTROLLER	TOCR IR-27, 2 & 3
	RAIN BIRD	WR2-RFC	WEATHER SENSOR DEVICE	TOCR IR-29
	FEBCO	LF825YA	RP BACKFLOW PREVENTER	TOCR IR-10 & TOCR IR-9B
N/S	GUARDSHACK	GS-.5	BACKFLOW PREVENTER ENCLOSURE	TOCR IR-1 & TOCR IR-9B
N/S	OLDCASTLE / CARSON	REFER TO SPECIFICATIONS AND DETAILS	VALVE BOXES	VARIOUS
N/S	AY MACDONALD	76001 - 1/4 TURN - 1"	MANUAL DRAIN VALVE	TOCR IR-5A & TOCR IR-9B
		LINE SIZE - 2½" AND SMALLER	GATE VALVE -RESILIENT WEDGE	TOCR IR-7 & TOCR IR-9B
	RAIN BIRD/ WEATHERMATIC	PEB W/ SLDEC1	MASTER CONTROL VALVE W/ DECODER	TOCR IR-36A, TOCR IR-9B & 1
FS	FLOMEC	QS-100-15 WITH LXIVM-SEN/ICD-SEN	FLOW SENSOR WITH SENSOR DECODER	TOCR IR-35 & TOCR IR-9B
		CLASS 200 BE - 2½" & SMALLER	PVC MAINLINE	TOCR IR-21
		TYPE K COPPER	HARD COPPER PIPE	TOCR IR-10
		CLASS 200 BE	PVC LATERAL	TOCR IR-21 & 11
		CLASS 160	PVC SLEEVING	4
	RAIN BIRD/ WEATHERMATIC	XCZ-100-PRB-COM W/ SLDEC1	DRIP VALVE ASSEMBLY W/ DECODER	TOCR IR-18, TOCR IR-19 & 1
	TORO	BLUE STRIPE	POLY DRIP TUBING -¾" MIN. WIDTH	TOCR IR-18, TOCR IR-19, TOCR IR-25, TOCR IR-32, TOCR IR-34 & 5
N/S	RAIN BIRD	XBCV - XERI-BUG WITH CHECK VALVE	DRIP EMITTERS	TOCR IR-25 & 5
	HUNTER / NIBCO	ECO-ID-12 WITH NIBCO BALL VALVE	DRIP LINE BLOW-OUT STUB AND INDICATOR HEAD	TOCR IR-32
			PVC BALL VALVE	7
	HUNTER	ECO-ID-12	INDICATOR HEAD	TOCR IR-34
N/S	WEATHERMATIC	SLDEC1	VALVE DECODER	1
N/S	WEATHERMATIC	SLWIRE(12)2	2-WIRE DECODER CABLE	1 & 3
G A	WEATHERMATIC	SLGDT LIGHTNING ARRESTOR	GROUNDING LOCATION	6
CG			CONTROLLER GROUNDING	2
WS			WIRE SPLICE	NOT SHOWN
M			WATER METER	BY OTHERS

GPM — CONTROLLER & STATION NO. / CONTROL VALVE SIZE

IRRIGATION CONSTRUCTION NOTES

1. DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY DHM DESIGN. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. CONTACT IRRIGATION CONSULTANT FOR CURRENT SPECIFICATIONS IF NOT PROVIDED.

2. SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE **95** PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OR ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF **84 PSI**.

3. IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A THREE NIGHT PER WEEK, EIGHT HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.
   - ORNAMENTAL PLANTINGS — 0.54" PER WEEK PEAK SEASON
   - NATIVE SEED MIXES — 0.38" PER WEEK PEAK SEASON (TWO SEASONS)

   NOTE: IT IS THE INTENT OF THIS DESIGN THAT NATIVE AREAS WOULD ONLY BE IRRIGATED FOR ESTABLISHMENT. SYSTEM WILL REMAIN FOR USE DURING YEARS WITH LESS THAN NORMAL RAINFALL.

4. EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. INSTALLATION SHALL BE COORDINATED WITH OTHER UTILITY WORK, ALL OTHER UTILITIES SHALL TAKE PRECEDENCE OVER IRRIGATION LOCATION. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVING THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC. BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN WOOD MULCH, GRAY IN STONE MULCH, PURPLE FOR RECLAIMED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER. WHERE MORTAR PAVING LIDS ARE INSTALLED ABOVE BOXES, IRRIGATION BOX WITH LID SHALL BE LOWERED TO ACCOMMODATE PAVING LID. REFER TO LANDSCAPE FOR ADDITIONAL INFORMATION, TO BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.

5. PIPING INSTALLATION - IRRIGATION PIPING SHALL MAINTAIN A MINIMUM DISTANCE FROM BUILDING FOUNDATIONS OF 5 FEET OR AS DESCRIBED IN SOILS REPORT, WHICHEVER IS GREATER. NO SPRAY IRRIGATION SHALL OCCUR WITHIN 10 FEET OF THE FOUNDATION. NO DRIP IRRIGATION SHALL OCCUR WITHIN 5 FEET OF THE FOUNDATION UNLESS SOIL MOISTURE SENSORS ARE INSTALLED ON VALVES SERVICING THESE AREAS. ALL IRRIGATION PIPING AND EMISSION DEVICES LOCATED ON TOP OF OR WITHIN BUILDING STRUCTURE SHALL CONFORM TO WATERPROOFING CONSULTANT REQUIREMENTS. PIPE ROUTING MAY BE SHOWN WITHIN THESE DISTANCES FOR GRAPHICAL CLARITY ONLY.

6. MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO ENSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.

7. POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 15 SERIES NOZZLES ON ALL HEADS SPACED AT 12' TO 14'. INSTALL 12 SERIES NOZZLES ON ALL HEADS SPACED 10' TO 11'. INSTALL 10 SERIES NOZZLES ON ALL HEADS SPACED AT 8' TO 9'. INSTALL 8 SERIES NOZZLES ON ALL HEADS SPACED AT 6' TO 7'. INSTALL 5' NOZZLES ON ALL HEADS SPACED AT 5'. INSTALL SIDE STRIP NOZZLES ON ALL HEADS WITH AN "S" DESIGNATION AND RIGHT AND LEFT CORNER STRIP NOZZLES ON ALL HEADS WITH AN "L" OR "R" DESIGNATION. VARIABLE ARC NOZZLES SHOULD BE UTILIZED ADJACENT TO CURVILINEAR SHRUB BEDS OR FOR ANY ANGLES THAT ARE NOT A STANDARD NOZZLE ANGLE. **NO OVERHEAD IRRIGATION IN AREAS LESS THAN 10' WIDE.

8. DRIP IRRIGATION - REFER TO IRRIGATION DETAIL SHEET FOR DRIP EMITTER QUANTITIES AND PLACEMENT.

9. UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.

10. SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE & (QUANTITY)
¾" - 1¼" PIPING	2" PVC (1)
1½" - 2" PIPING	4" PVC (1)
2½" PIPING	6" PVC (1)
2-WIRE CABLE	2" PVC (1)

11. 2-WIRE SYSTEM NOTES - CONTRACTOR SHALL INSTALL ALL TWO-WIRE COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.
   - 11.1. CONTRACTOR SHALL USE ONLY MANUFACTURED 2-WIRE DECODER CABLE (SEE SCHEDULE FOR SPECIFIC 2-WIRE CABLE).
   - 11.2. ONLY USE SINGLE STATION DECODERS (SEE SCHEDULE FOR SPECIFIC MODEL).
   - 11.3. LOOP 5' OF 2-WIRE DECODER CABLE INTO ALL VALVE BOXES (WITH DECODERS AND SPLICES) FOR MAINTENANCE.
   - 11.4. LOOP 2' OF 2-WIRE DECODER CABLE AS AN EXPANSION LOOP AT ALL CHANGES OF DIRECTION.
   - 11.5. USE ONLY 3M DBR-6 WATERPROOF CONNECTORS ON ALL WIRE SPLICES AND ALL WIRE SPLICES ARE TO BE MADE WITHIN A VALVE BOX WITH CONTROL VALVES OR A SEPARATE 10" ROUND VALVE BOX FOR WIRE SPLICES.
   - 11.6. INSTALL SURGE PROTECTOR RODS OR PLATES 8 LF. PERPENDICULARLY FROM VALVES, DECODERS, AND COMMUNICATION WIRE. WHERE 8 LF IS NOT AVAILABLE, REFER TO ASIC GUIDELINES FOR PLATE LAYOUT.
   - 11.7. GROUNDING SHALL BE IN AN IRRIGATED AREA.
   - 11.8. GROUND ALL DECODERS AND DECODER WIRE A MINIMUM OF EVERY 500' OF WIRE AND AT ALL ENDS OF 2-WIRE DECODER CABLE RUN.

10. ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.

11. PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT. WHERE REQUIRED BY CITY OR TOWN, CONTRACTOR SHALL CONSTRUCT ONLY OFF CITY OR TOWN STAMPED PLANS. REVISIONS TO CITY OR TOWN STAMPED PLANS SHALL CONFORM TO CITY OR TOWN FIELD CHANGE PROCEDURES AND DOCUMENTATION.

12. SIMULTANEOUS ZONE OPERATION - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY BASED ON INDIVIDUAL ZONE FLOW. THE DESIGN IS INTENDED TO OPERATE MULTIPLE VALVES, UP TO THE MAXIMUM FLOW IN THE POINT OF CONNECTION NOTE. REFER TO CONTROLLER SPECIFICATION FOR MAXIMUM SIMULTANEOUS VALVE COUNT.

13. BACKFLOW DEVICES: ALL CONNECTION COMPONENTS AND BACKFLOW DEVICES SHALL BE LEAD-FREE. CONTRACTOR SHALL CONTACT WATER SERVICE PROVIDER FOR ANY ADDITIONAL REQUIREMENTS REGARDING BACKFLOW TESTING.

14. CITY DETAILS - HYDROSYSTEMS-KDI WILL BE RESPONSIBLE FOR THE IRRIGATION DESIGN ITSELF. DETAILS LABELED AS TOWN OF CASTLE ROCK ARE A STANDARD DETAILS DESIGNED AND SPECIFIED BY THE APPLICABLE GOVERNING AUTHORITY, TOWN OF CASTLE ROCK. HYDROSYSTEMS*KDI DID NOT DESIGN AND SPECIFY THESE DETAILS. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE SELECTION AND SPECIFICATION OF THESE DETAILS, AND HYDROSYSTEMS*KDI MAKES NO REPRESENTATIONS WITH REGARD TO THESE DETAILS.

15. WATER BUDGETS AND PROJECTIONS - HYDROSYSTEMS-KDI HAS BASED THE IRRIGATION DESIGN AND THE ASSOCIATED PROJECTED WATER USE UPON SUCH FACTORS AS CITY OR WATER DISTRICT IMPOSED REQUIREMENTS, PUBLISHED PLANT SPECIES WATER NEEDS, SELECTED IRRIGATION METHOD EFFICIENCIES AS REPORTED BY INDEPENDENT TESTING FACILITIES, HISTORICAL WEATHER DATA FOR THE PROJECT LOCATION, AND PROPER MAINTENANCE PROCEDURES. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE ACTUAL WATER USAGE VARIATION THAT IS A RESULT OF FIELD MODIFICATIONS TO THE SYSTEM NOT MATCHING CONSTRUCTION DOCUMENTS, IMPROPER MAINTENANCE, WASTE DUE TO SYSTEM DAMAGE OR VANDALISM, OR WEATHER CONDITIONS THAT DEVIATE FROM PUBLISHED 30 YEAR HISTORICAL AVERAGES.

CASTLE ROCK STANDARD NOTES

1. INSTALLING CONTRACTOR SHALL CONTACT THE TOWN OF CASTLE ROCK WATER AT 720.733.6017 TO SCHEDULE A PRE-CONSTRUCTION MEETING BEFORE BEGINNING THE INSTALLATION OF THE IRRIGATION SYSTEM.
2. IRRIGATION SHALL BE INSTALLED BY A TOWN OF CASTLE ROCK REGISTERED LANDSCAPE CONTRACT PROFESSIONAL.
3. BACKFLOW TO BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN APPROVED BY THE UTILITY DEPARTMENT WITHIN 10 DAYS OF THE IRRIGATION METER INSTALLATION AND ANNUALLY THEREAFTER.
4. IRRIGATION EXEMPTION MUST BE OBTAINED FROM CASTLE ROCK WATER IF IRRIGATING THE NATIVE SEED OR THE SOD ON A DAILY BASIS FOR ESTABLISHMENT DURING THE MONTHS OF MAY, JUNE AUGUST AND SEPTEMBER. IRRIGATION EXEMPTIONS WILL NOT BE ISSUED DURING THE MONTH OF JULY.
5. IRRIGATION SYSTEMS MUST BE DESIGNED TO OPERATE WITHIN THE TOWN OF CASTLE ROCK WATER USE MANAGEMENT PLAN. CURRENT COMMERCIAL HOURS OF OPERATION THREE DAYS PER WEEK 10 PM TO 6 AM.
6. OVERHEAD IRRIGATION IN AREAS LESS THAN 10' IN WIDTH OR INSTALLED ON SLOPES STEEPER THAN 3:1 WILL NOT BE APPROVED BY TOWN OF CASTLE ROCK INSPECTORS. NO IRRIGATION ALLOWED IN AREAS 4' IN WIDTH OR LESS.
7. ALL IRRIGATION INSTALLATIONS MUST MEET TOWN OF CASTLE ROCK DETAILS.
8. ALL SPRINKLER HEADS TO BE ADJUSTED TO MINIMIZE/ELIMINATE OVER SPRAY ON TO HARD SURFACES OR UNINTENDED AREAS. PER TOWN OF CASTLE ROCK WATER USE MANAGEMENT PLAN WATER WASTE IS NOT ALLOWED.
9. IRRIGATION SYSTEMS ARE TO BE WINTERIZED ANNUALLY IN THE FALL.
10. PLEASE NOTE THAT THE IRRIGATION TAP, LINE, METER AND BACKFLOW PREVENTION ASSEMBLY MUST BE THE SAME SIZE FROM THE TAP TO A MINIMUM DISTANCE OF 10 PIPE DIAMETERS PAST THE BACKFLOW PREVENTION ASSEMBLY AND WINTERIZATION TEE.
11. A COPY OF THE STAMPED AND TOWN APPROVED IRRIGATION PLANS IS TO BE AVAILABLE ON-SITE DURING IRRIGATION INSPECTIONS.
12. CONTRACTOR TO SUBMIT IRRIGATION SUBMITTALS TO THE TOWN OF CASTLE ROCK PARKS DEPARTMENT FOR THE IRRIGATION EQUIPMENT AND COMPONENTS USED FOR THE PLD PARK SITE.

DIRECTORY

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Registered Landscape Professional/Irrigation Designer:
Jill Bersano #15-1080

KDI HydroSystems
Irrigation Consulting & Water Management
13949 W. Colfax Ave, Suite 260 Lakewood, Colorado 80401
o: 303.980.5327 www.hydrosystemskdi.com

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

DHM DESIGN

PROJECT TITLE: CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS: COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/16/2026
REVIEWED BY:	JB
DRAWN BY:	TT
DESIGNED BY:	TT
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE: IRRIGATION NOTES & SCHEDULE

SHEET ID: 34

Sheet 34 of 47

PROJECT STATUS: Site Construction Documents

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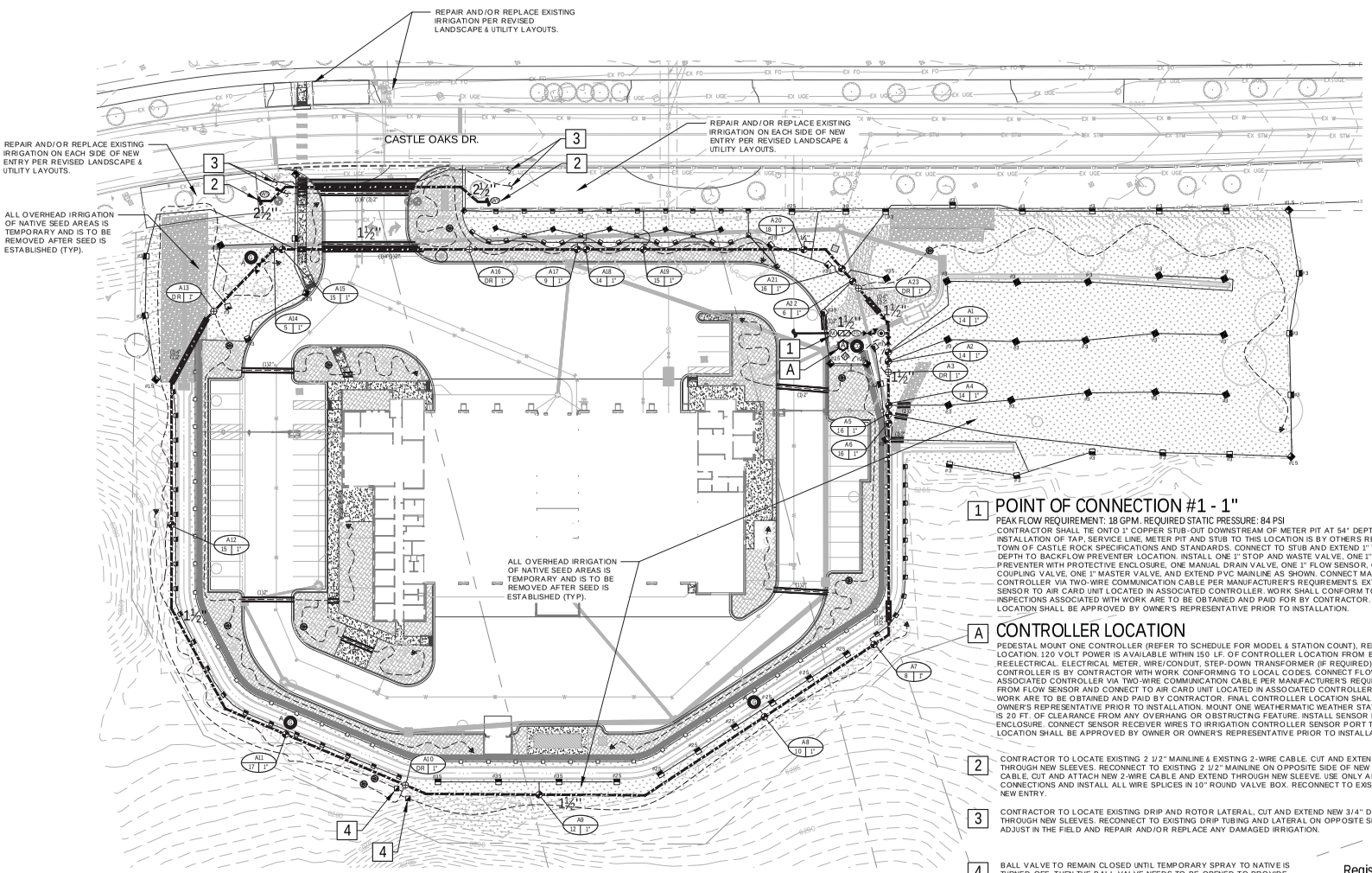

1 POINT OF CONNECTION #1 - 1"

PEAK FLOW REQUIREMENT: 18 GPM. REQUIRED STATIC PRESSURE: 84 PSI

CONTRACTOR SHALL TIE ONTO 1" COPPER STUB-OUT DOWNSTREAM OF METER PIT AT 54" DEPTH IN THIS APPROXIMATE LOCATION. INSTALLATION OF TAP, SERVICE LINE, METER PIT AND STUB TO THIS LOCATION IS BY OTHERS RE/CIVIL. INSTALL ONE 1" METER PER TOWN OF CASTLE ROCK SPECIFICATIONS AND STANDARDS. CONNECT TO STUB AND EXTEND 1" TYPE K SOFT COPPER AT 54" MINIMUM DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE 1" STOP AND WASTE VALVE, ONE 1" REDUCED PRESSURE BACKFLOW PREVENTER WITH PROTECTIVE ENCLOSURE, ONE MANUAL DRAIN VALVE, ONE 1" FLOW SENSOR, ONE GATE VALVE, ONE QUICK COUPLING VALVE, ONE 1" MASTER VALVE, AND EXTEND PVC MAINLINE AS SHOWN. CONNECT MASTER VALVE TO ASSOCIATED CONTROLLER VIA TWO-WIRE COMMUNICATION CABLE PER MANUFACTURER'S REQUIREMENTS. EXTEND SHIELDED CABLE FROM FLOW SENSOR TO AIR CARD UNIT LOCATED IN ASSOCIATED CONTROLLER. WORK SHALL CONFORM TO LOCAL CODE. FEES, PERMITS AND INSPECTIONS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR. FINAL BACKFLOW PREVENTER LOCATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

A CONTROLLER LOCATION

PEDESTAL MOUNT ONE CONTROLLER (REFER TO SCHEDULE FOR MODEL & STATION COUNT), REMOTE READY, AT INDICATED LOCATION. 120 VOLT POWER IS AVAILABLE WITHIN 150 LF. OF CONTROLLER LOCATION FROM BUILDING PANEL, BY OTHERS REELECTRICAL. ELECTRICAL METER, WIRE/CONDUIT, STEP-DOWN TRANSFORMER (IF REQUIRED) AND POWER CONNECTION TO CONTROLLER IS BY CONTRACTOR WITH WORK CONFORMING TO LOCAL CODES. CONNECT FLOW SENSOR AND MASTER VALVE TO ASSOCIATED CONTROLLER VIA TWO-WIRE COMMUNICATION CABLE PER MANUFACTURER'S REQUIREMENTS. LOCATE SHIELDED CABLE FROM FLOW SENSOR AND CONNECT TO AIR CARD UNIT LOCATED IN ASSOCIATED CONTROLLER. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. MOUNT ONE WEATHERMATIC WEATHER STATION SENSOR ON POLE WHERE THERE IS 20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. INSTALL SENSOR RECEIVER IN CONTROLLER ENCLOSURE. CONNECT SENSOR RECEIVER WIRES TO IRRIGATION CONTROLLER SENSOR PORT THROUGH CONDUIT. FINAL SENSOR LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

2 CONTRACTOR TO LOCATE EXISTING 2 1/2" MAINLINE & EXISTING 2-WIRE CABLE. CUT AND EXTEND NEW PVC MAINLINE, AS SHOWN, THROUGH NEW SLEEVES. RECONNECT TO EXISTING 2 1/2" MAINLINE ON OPPOSITE SIDE OF NEW DRIVEWAY. LOCATE EXISTING 2-WIRE CABLE, CUT AND ATTACH NEW 2-WIRE CABLE AND EXTEND THROUGH NEW SLEEVE. USE ONLY APPROVED WATER PROOF WIRE CONNECTIONS AND INSTALL ALL WIRE SPLICES IN 10" ROUND VALVE BOX. RECONNECT TO EXISTING 2-WIRE ON OPPOSITE SIDE OF NEW ENTRY.

3 CONTRACTOR TO LOCATE EXISTING DRIP AND ROTOR LATERAL, CUT AND EXTEND NEW 3/4" DRIP TUBING AND LATERAL LINE THROUGH NEW SLEEVES. RECONNECT TO EXISTING DRIP TUBING AND LATERAL ON OPPOSITE SIDE OF ENTRY. CONTRACTOR TO ADJUST IN THE FIELD AND REPAIR AND/OR REPLACE ANY DAMAGED IRRIGATION.

4 BALL VALVE TO REMAIN CLOSED UNTIL TEMPORARY SPRAY TO NATIVE IS TURNED OFF. THEN THE BALL VALVE NEEDS TO BE OPENED TO PROVIDE IRRIGATION TO TREE IN NATIVE

NOTE: INSTALL VALVE BOX 6" ABOVE GRADE FOR ALL TEMPORARY IRRIGATION ZONES. EXTEND PIPING TO HEADS ABOVE GROUND, AS SHOWN. AFTER ESTABLISHMENT PERIOD, ALL PIPING AND HEADS TO BE REMOVED. REMOVE VALVE BOX AND ELECTRIC CONTROL VALVE ASSEMBLY DOWN TO SERVICE TEE. INSTALL MPT PVC PLUG IN TEE. CONNECT CONTROL WIRES USING APPROVED WATER PROOF SPLICES AND INSTALL IN 10 INCH ROUND VALVE BOX. BRAND AS WIRE SPLICE 3 BOX.

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SCALE: 1"=30'-0" (0, 15, 30, 60) NORTH

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TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

DHM DESIGN

Registered Landscape Professional/Irrigation Designer:
Jill Bersano #15-1080

HydroSystems KDT
Irrigation Consulting & Water Management
13949 W. Colfax Ave, Suite 260 Lakewood, Colorado 80401
o: 303.980.5327 www.hydrosystemskdt.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/16/2026
REVIEWED BY: JB
DRAWN BY: TT
DESIGNED BY: TT
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
IRRIGATION PLAN

SHEET ID:
35
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PROJECT STATUS:
Site Construction Documents

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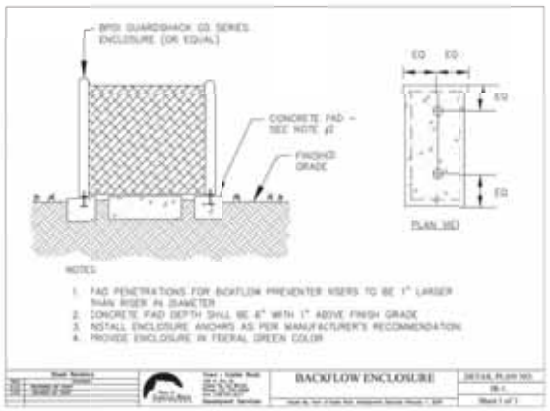
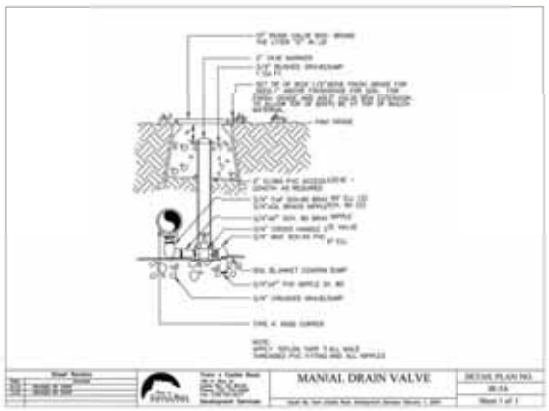
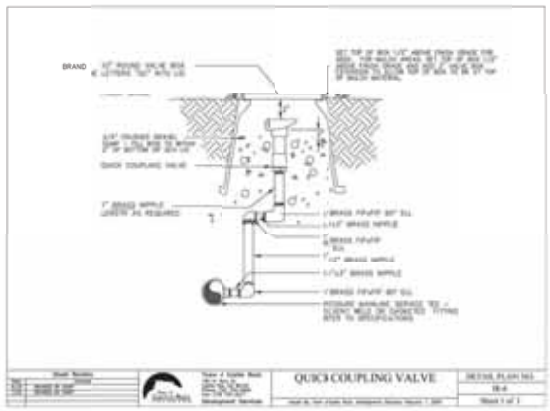


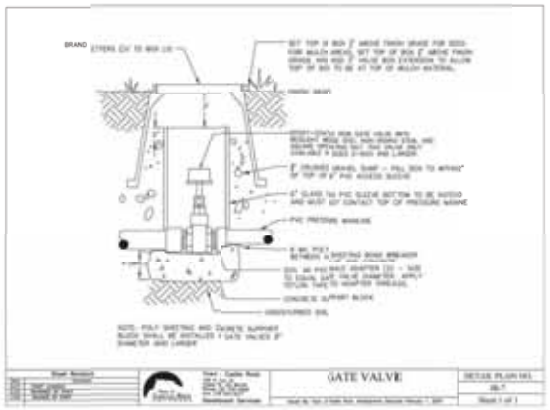
BACKFLOW ENCLOSURE



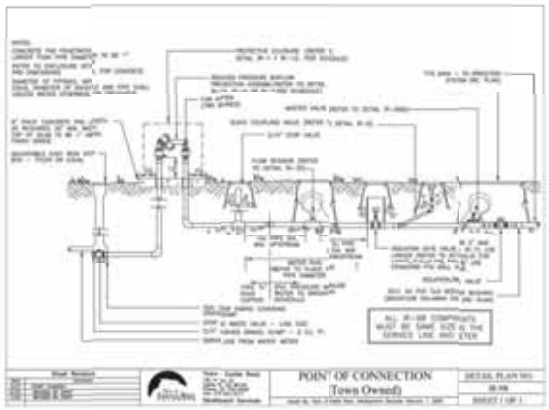
MANUAL DRAIN VALVE



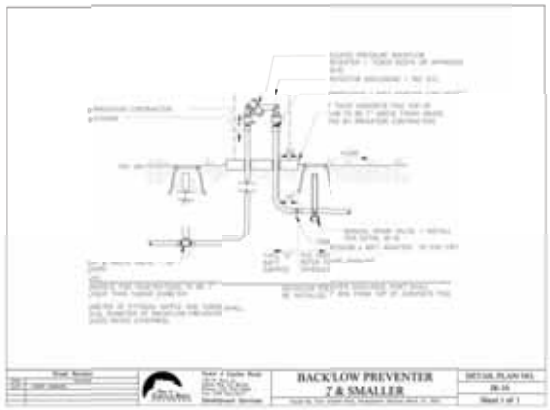
QUICK COUPLING VALVE



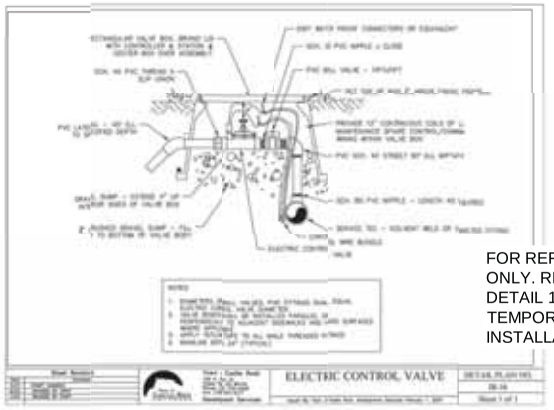
GATE VALVE



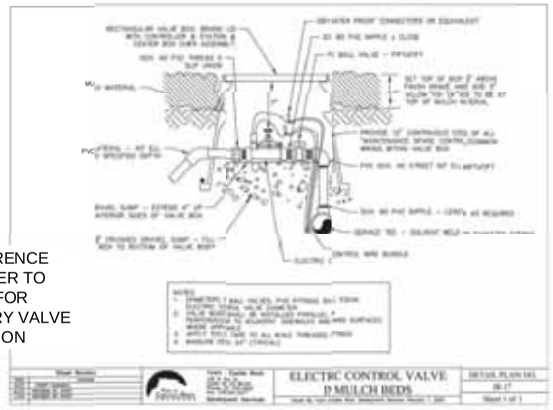
POINT OF CONNECTION
(Town Owned)



BACKFLOW PREVENTER
7" & SMALLER



ELECTRIC CONTROL VALVE



ELECTRIC CONTROL VALVE
@ MULCH BEDS

FOR REFERENCE ONLY. REFER TO DETAIL 10 FOR TEMPORARY VALVE INSTALLATION

Registered Landscape Professional/Irrigation Designer:
Jill Bersano #15-1080

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DHM DESIGN

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REVISIONS

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DATE ISSUED:	01/16/2026
REVIEWED BY:	JB
DRAWN BY:	TT
DESIGNED BY:	TT

PROJECT NUMBER:
20611004000

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SHEET TITLE:
IRRIGATION DETAILS

SHEET ID:
36
Sheet 36 of 47

PROJECT STATUS:
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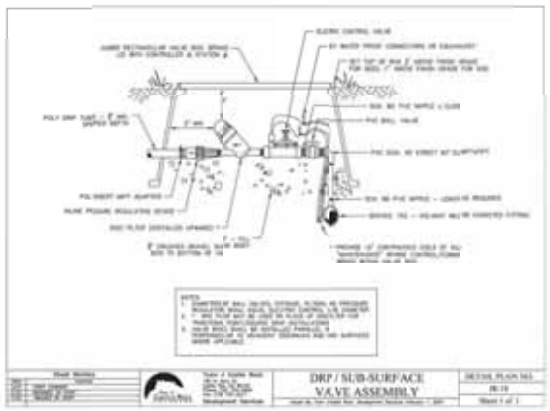
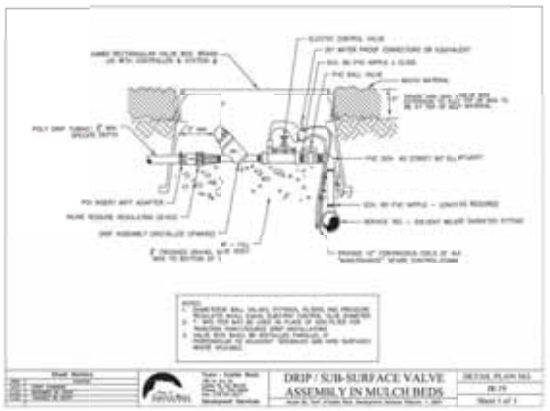
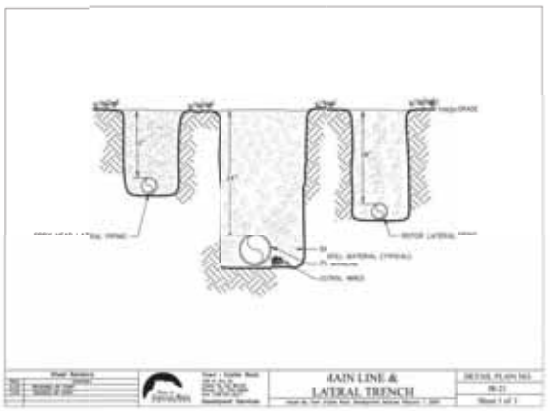


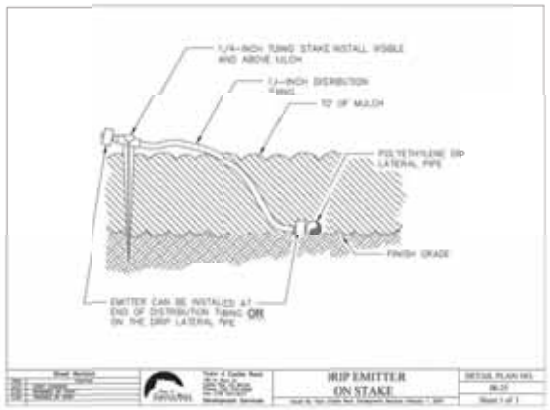
DRIP / SUB-SURFACE VALVE ASSEMBLY



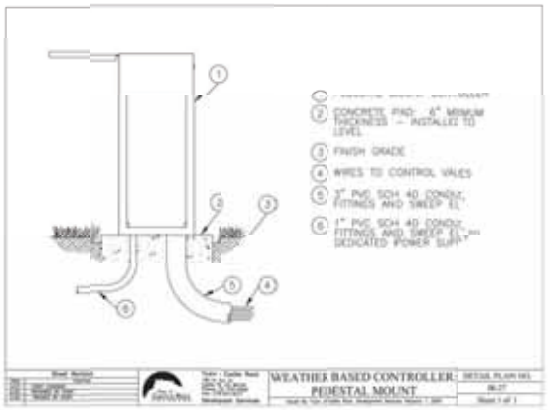
DRIP / SUB-SURFACE VALVE ASSEMBLY IN MULCH BEDS



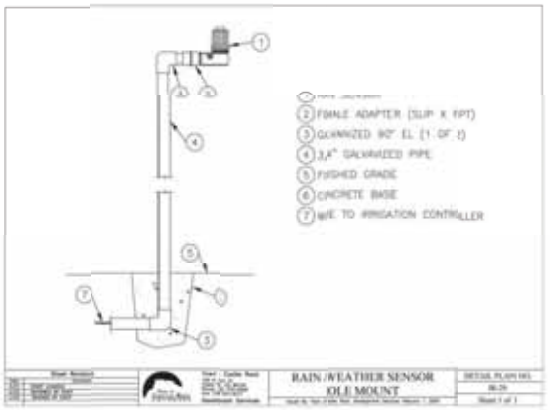
MAIN LINE & LATERAL TRENCH



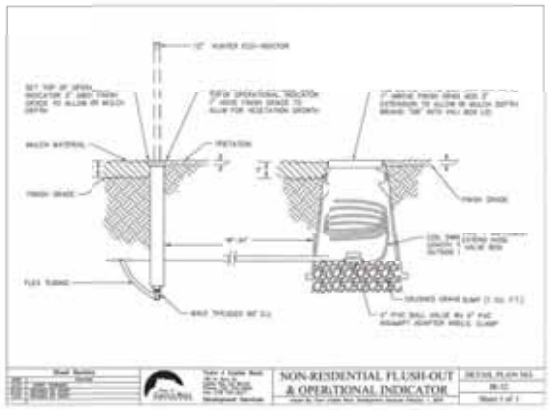
DRIP EMITTER ON STAKE



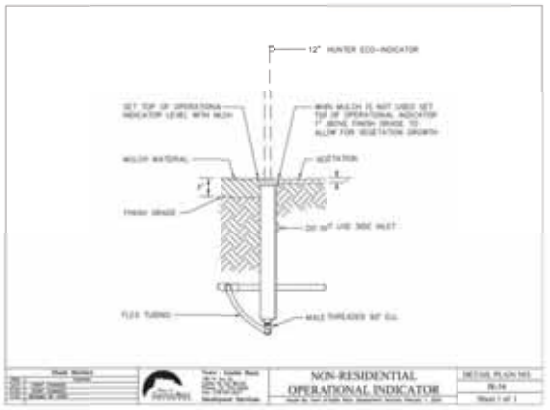
WEATHER BASED CONTROLLER: PEDESTAL MOUNT



RAIN /WEATHER SENSOR OLE MOUNT



NON-RESIDENTIAL FLUSH-OUT & OPERATIONAL INDICATOR



NON-RESIDENTIAL OPERATIONAL INDICATOR

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102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

DHM DESIGN

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY:	TT
DESIGNED BY:	TT

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20611004000

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Jill Bersano #15-1080

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SHEET TITLE:
IRRIGATION DETAILS

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TOWN OF CASTLE ROCK APPROVAL
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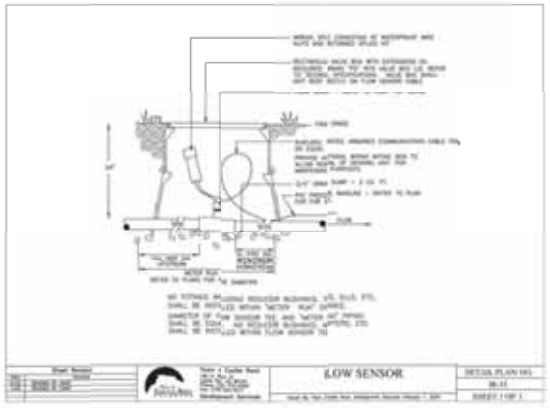
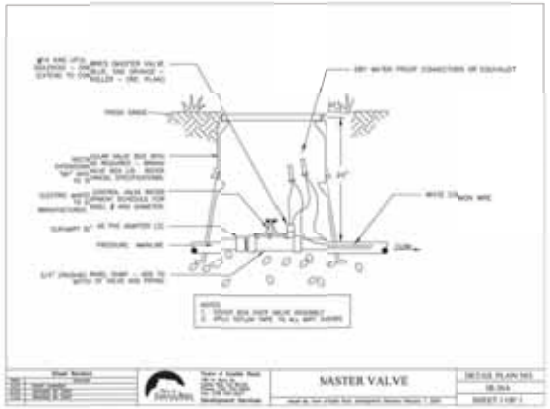
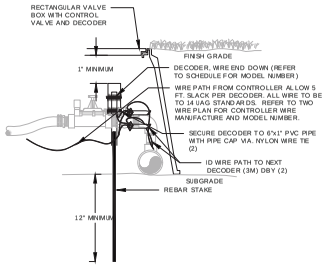
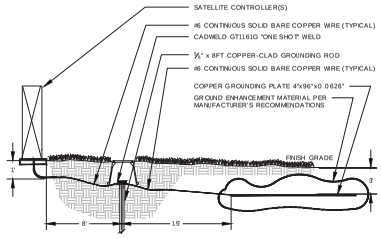






DECODER INSTALLATION
TWO-WIRE SYSTEM

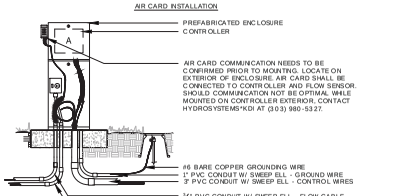
1



GROUNDING MUST MEET ALL MANUFACTURER'S REQUIREMENTS. IN ADDITION, GROUNDING PLATE DESIGN CONSISTS OF ONE VERTICAL 8-FOOT COPPER CLAD GROUNDING ROD (AT LEAST EIGHT FEET FROM THE EQUIPMENT), AND ONE COPPER GROUNDING PLATE PER 40 STATIONS REQUIRING GROUNDING. INSTALL GROUNDING PLATE HORIZONTALLY, THREE FEET DEEP AND 15' FROM THE GROUNDING ROD. SHOULD MULTIPLE RODS/PLATES BE REQUIRED, THEY SHALL BE PLACED A MINIMUM OF 3 LINEAR FEET FROM EACH OTHER. PERFORM CADWELD CONNECTION TO GROUNDING ROD(S) AND PLACEMENT OF GROUNDING PLATE(S) IN OWNER'S PRESENCE PRIOR TO BACKFILL. REFER TO ASIC STANDARDS FOR MORE INFORMATION.

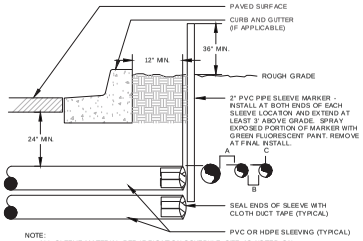
CONTROLLER GROUNDING
TWO-WIRE SYSTEM - Pedestal Mount

2



ELECTRIC CONTROLLER
PEDESTAL

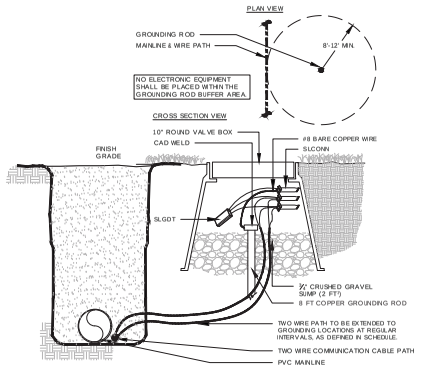
3



NOTE:
- ALL SLEEVE MATERIAL PER IRRIGATION SCHEDULE, SIZE AS NOTED ON PLAN.
- INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.
- CONTRACTOR TO COORDINATE WITH FLATWORK INSTALLER TO BRAND A "V" IN SIDEWALK OR CURB AT BOTH ENDS OF SLEEVE CROSSING.
- SLEEVING THROUGH OR UNDER RETAINING WALLS, PLANTER WALLS, POND LINING, OR WATER QUALITY AREAS SHALL BE COORDINATED WITH CIVIL WORK AT APPROXIMATE LOCATIONS SHOWN.
- AN INDIVIDUAL SLEEVE SHALL CONTAIN NO MORE THAN ONE PIPE OR WIRE BUNDLE.

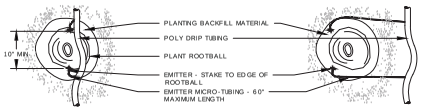
IRRIGATION SLEEVING
TYPICAL

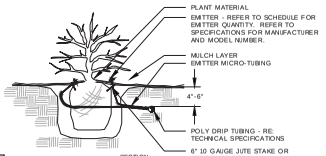
4



DECODER GROUNDING
VIA GROUNDING ROD

5



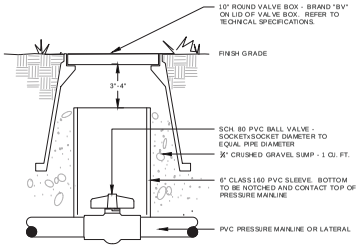


PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
5 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
½" CALIPER TREE	1.0 GPH	THREE EACH	FOUR EACH
2" CALIPER TREE	1.0 GPH	FOUR EACH	SIX EACH
2½" CALIPER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3" CALIPER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3½" CALIPER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4" CALIPER TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH

NOTES:
- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
- EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
- FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
- IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
- EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
- DRIP VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
- CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
- SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS
  - ** EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGES SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
  - ** EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
  - ** PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

DRIP EMITTER
BELOW GRADE

6



PIPING SHUT-OFF VALVE

7

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SHEET TITLE:
IRRIGATION DETAILS

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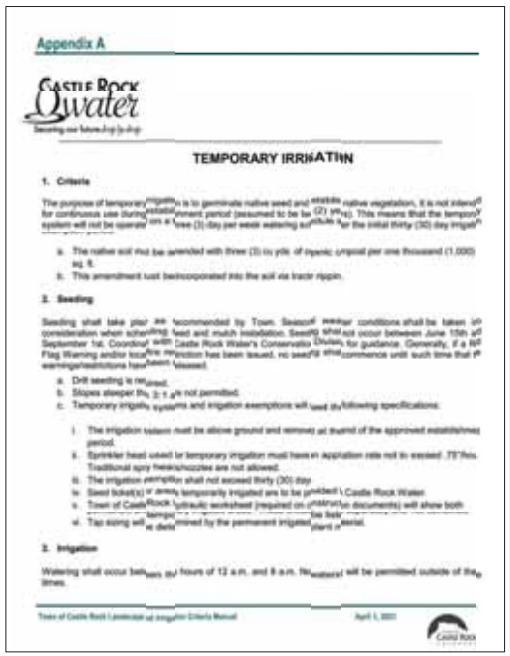

Appendix A

Castle Rock Water

TEMPORARY IRRIGATION

1. Criteria

The purpose of temporary irrigation is to germinate native seed and establish native vegetation, it is not intended for continuous use during establishment period (assumed to be six (2) years). This means that the temporary system will not be operated more than three (3) day per week watering schedule for the initial thirty (30) day irrigation period.

a. The native soil mix be amended with three (3) cu yds of organic compost per one thousand (1,000) sq. ft.
b. This amendment must beincorporated into the soil via tractor rippin.

2. Seeding

Seeding shall take plac as recommended by Town. Seasonal weather conditions shall be taken in consideration when scheduling seed and mulch installation. Seeding shall not occur between June 15th and September 1st. Coordinat with Castle Rock Water's Conservatio Division for guidance. Generally, if a NWS Flag Warning and/or local fire restriction has been issued, no seed shall commence until such time that the warnings/restrictions have been released.

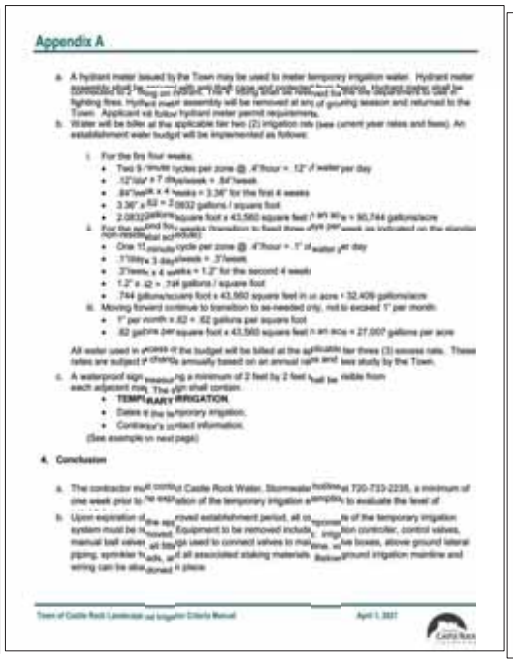
a. Drill seeding is required.
b. Slopes steeper tha 3:1 are not permitted.
c. Temporary irrigation systems and irrigation exemptions will need to following specifications:

i. The irrigation system must be above ground and removed at theend of the approved establishment period.
ii. Sprinkler head used for temporary irrigation must have an application rate not to exceed .75"/hrs. Traditional spay heads/nozzles are not allowed.
iii. The irrigation exemption shall not exceed thirty (30) day
iv. Seed ticket(s) or permits temporarily irrigated are to be provided to Castle Rock Water.
v. Town of Castle Rock hydraulic worksheet (required on all irrigation documents) will show both temporary and permanent irrigation.
vi. Tap sizing will be determined by the permanent irrigated plant material.

3. Irrigation

Watering shall occur between the hours of 12 a.m. and 8 a.m. No watering will be permitted outside of these times.

Town of Castle Rock Landscape and Irrigation Criteria Manual — April 1, 2021


Appendix A

a. A hydrant meter issued by the Town may be used to meter temporary irrigation water. Hydrant meter assemblies must be [illegible] and shall not be connected to the Town's potable water system for fire fighting lines. Hydrant meter assembly will be removed at any of growing season and returned to the Town. Applicant will follow hydrant meter permit requirements.
b. Water will be billed at the applicable tier two (2) irrigation rate (see current year rates and fees). An establishment water budget will be implemented as follows:

i. For the firs four weeks:
- Two 5 minute cycles per zone @ .4"/hour = .12" of water per day
- .12"/day x 7 days/week = .84"/week
- .84"/week x 4 weeks = 3.36" for the first 4 weeks
- 3.36" x .62 = 2.0832 gallons / square foot
- 2.0832 gallons/square foot x 43,560 square feet = per acre = 90,744 gallons/acre

ii. For the second through [illegible] weeks transition to fixed three days per week as indicated on the standard non-residential schedule
- One 11 minute cycle per zone @ .4"/hour = .1" of water per day
- .1"/day x 3 days/week = .3"/week
- .3"/week x 4 weeks = 1.2" for the second 4 weeks
- 1.2" x .62 = .744 gallons / square foot
- .744 gallons/square foot x 43,560 square feet in or acre = 32,409 gallons/acre

iii. Moving forward continue to transition to as-needed only, not to exceed 1" per month:
- 1" per month x .62 = .62 gallons per square foot
- .62 gallons per square foot x 43,560 square feet = an acre = 27,007 gallons per acre

All water used in excess of the budget will be billed at the applicable tier three (3) excess rate. These rates are subject to change annually based on an annual rate and fee study by the Town.

c. A waterproof sign measuring a minimum of 2 feet by 2 feet shall be visible from each adjacent road. The sign shall contain:
- TEMPORARY IRRIGATION
- Dates it the temporary irrigation;
- Contractor's contact information;

(See example on next page)

4. Conclusion

a. The contractor must contact Castle Rock Water, Stormwater hotline at 720-733-2235, a minimum of one week prior to the expiration of the temporary irrigation exemption to evaluate the level of
b. Upon expiration of the approved establishment period, all components of the temporary irrigation system must be removed. Equipment to be removed include, irrigation controller, control valves, manual ball valves, quick couplers used to connect valves to mainline, valve boxes, above ground lateral piping, sprinkler heads, all of all associated staking materials. Below ground irrigation mainline and wiring can be abandoned in place

Town of Castle Rock Landscape and Irrigation Criteria Manual — April 1, 2021

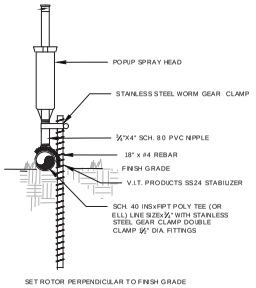
Appendix A

TEMPORARY IRRIGATION

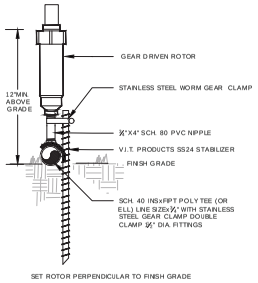
05/01/2021 - 05/30/2021

ABC BUILDER, 303-555-5555

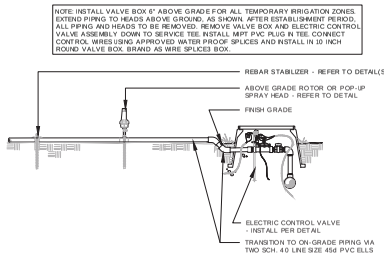
Town of Castle Rock Landscape and Irrigation Criteria Manual — April 1, 2021



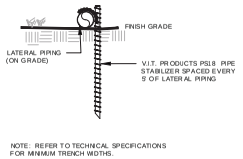
POP-UP SPRAY HEAD
ON GRADE — 8



GEAR DRIVEN ROTOR
ON GRADE — 9



ELECTRIC CONTROL VALVE
ON GRADE SYSTEM — 10



PIPING STABILIZATION
ON GRADE PIPING — 11

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Registered Landscape Professional/Irrigation Designer:
Jill Bersano #15-1080

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WATER USE CHART C2

HYDRAULICS CHART C3

CLWUR CHART C1

CONTROLLER CHART C4

NOTE: INSTALL VALVE BOX 6" ABOVE GRADE FOR ALL TEMPORARY IRRIGATION ZONES. EXTEND PIPING TO HEADS ABOVE GROUND, AS SHOWN. AFTER ESTABLISHMENT PERIOD, ALL PIPING AND HEADS TO BE REMOVED. REMOVE VALVE BOX AND ELECTRIC CONTROL VALVE ASSEMBLY DOWN TO SERVICE TEE. INSTALL MPT PVC PLUG IN TEE. CONNECT CONTROL WIRES USING APPROVED WATER PROOF SPLICES AND INSTALL IN 10 INCH ROUND VALVE BOX. BRAND AS WIRE SPLICES BOX.

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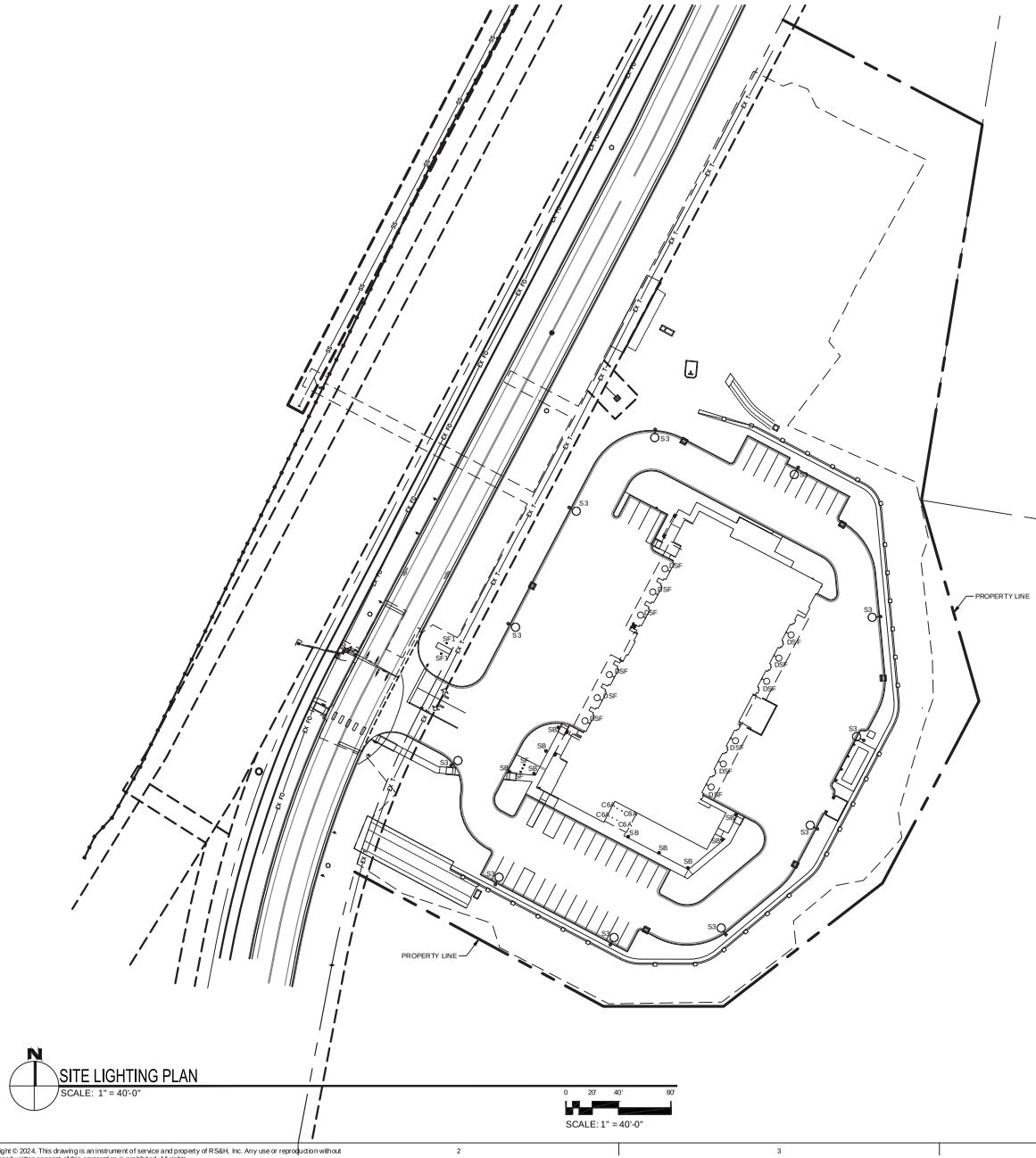

N

SITE LIGHTING PLAN
SCALE: 1" = 40'-0"

0 20' 40' 80'
SCALE: 1" = 40'-0"

GENERAL NOTES

A. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

B. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF WORK IN ADVANCE OF AN DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL, AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OTHERWISE.

C. ALL EXTERIOR LIGHTING CONDUITS SHALL BE 1" SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED.

D. ALL EXTERIOR LIGHTING CONDUCTORS SHALL BE #8 UNLESS OTHERWISE INDICATED.

E. ALL ELECTRICAL EQUIPMENT AND ASSOCIATED SUPPORT EQUIPMENT TO BE PAINTED TO MATCH SURROUNDING BUILDING AS SELECTED BY ARCHITECT.

F. EXACT LOCATION OF LIGHT FIXTURE TO BE COORDINATED IN THE FIELD WITH LANDSCAPE ARCHITECT AND WITH FINAL APPROVAL BY ARCHITECT.

G. ARROW ADJACENT TO LIGHT FIXTURE INDICATES DIRECTION OF REFLECTOR.

H. EXTERIOR LIGHTING CONTROL
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3. PARKING LOT AND BOLLARD LUMINAIRES, TYPE "S3" AND "SB", SHALL BE AUTOMATICALLY DIMMED 50% FROM MIDNIGHT TO 6:00AM AS PER 2021 IECC ARTICLE C405.2.7.3.
4. LIGHT LOSS FACTOR IS TO BE 1.
5. EXTERIOR LIGHTING FOR EGRESS TRAVEL (TO THE PUBLIC WAY) SHALL COMPLY WITH CURRENT ADOPTED BUILDING CODES.
6. ALL BUILDING MOUNTED LIGHT FIXTURES SHALL HAVE 0% UPLIGHT.

PROFESSIONAL ENGINEER CERTIFICATION

I hereby affirm that these final construction plans were prepared under my direct supervision, in accordance with all applicable Town of Castle Rock and State of Colorado standards and statutes, respectively; and that I am fully responsible for all design and revisions relative to said plans.

Electrical Engineer signature and stamp — Date
Suhail M. Fageer, PE #64223

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

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Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com
INNOVATIVE | DEPENDABLE | SOLUTIONS

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/16/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
SITE LIGHTING PLAN

SHEET ID:
41
Sheet 41 of 47

PROJECT STATUS:
Site Construction Documents

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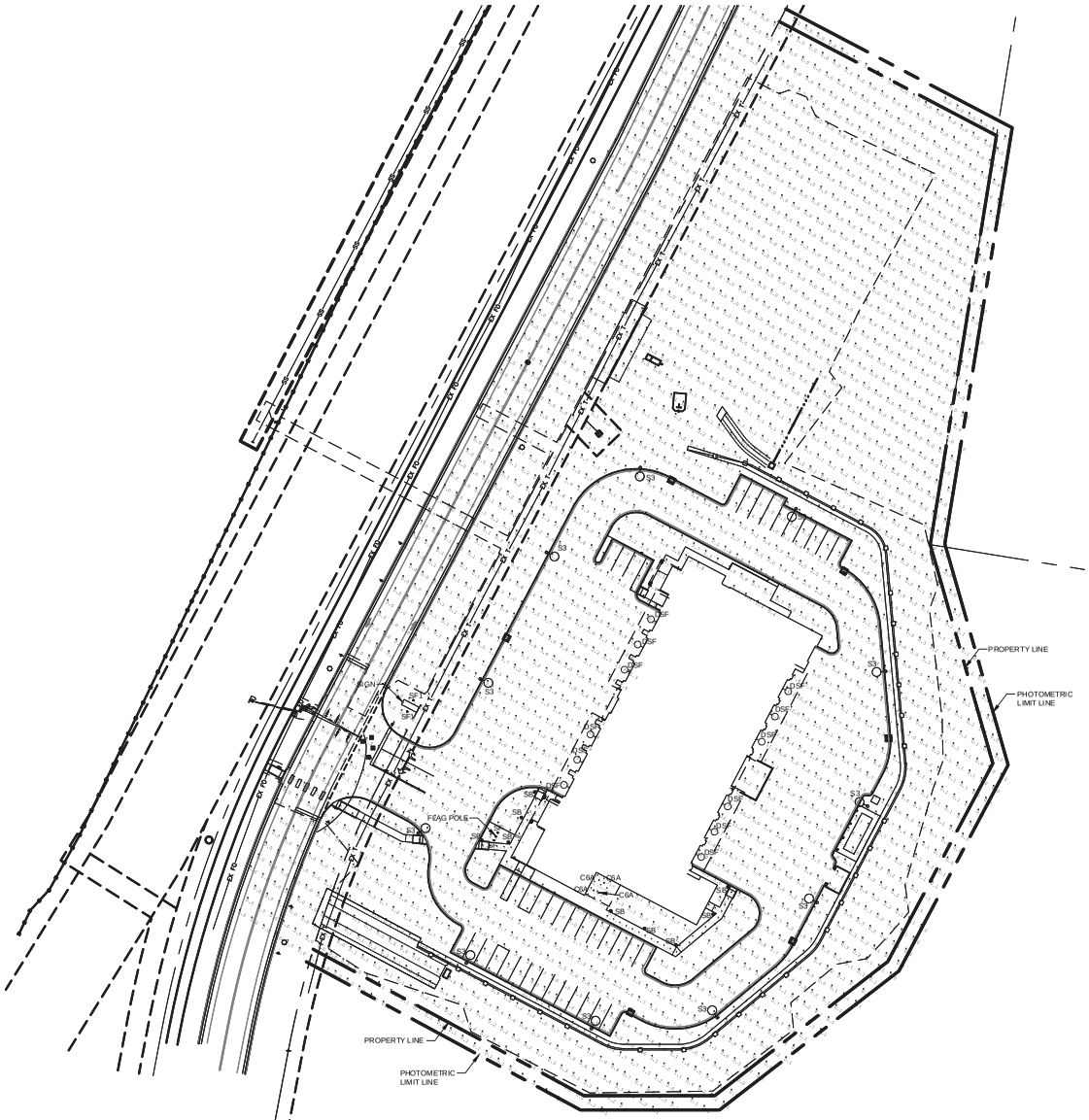

SITE PHOTOMETRIC PLAN
SCALE: 1" = 40'-0"

0 20' 40' 80'
SCALE: 1" = 40'-0"

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4. LIGHT LOSS FACTOR IS TO BE 1.
5. EXTERIOR LIGHTING FOR EGRESS TRAVEL (TO THE PUBLIC WAY) SHALL COMPLY WITH CURRENT ADOPTED BUILDING CODES.
6. ALL BUILDING MOUNTED LIGHT FIXTURES SHALL HAVE 0% UPLIGHT.

Calculation Summary List the Use Area / Zone Type

Label	Calc Type	Units	Average	Min	Max	AVG Min Max
AREA		fc	1.24	0	13.1	N/A
WALKWAY		fc	3.47	0.4	10.7	8.68
CANOPY		fc	9.91	4.4	16.8	2.25

PROFESSIONAL ENGINEER CERTIFICATION

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Electrical Engineer signature and stamp — Date
Suhail M. Fageer, PE #64223

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/16/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJD
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
SITE PHOTOMETRIC PLAN

SHEET ID:
42
Sheet 42 of 47

PROJECT STATUS:
Site Construction Documents

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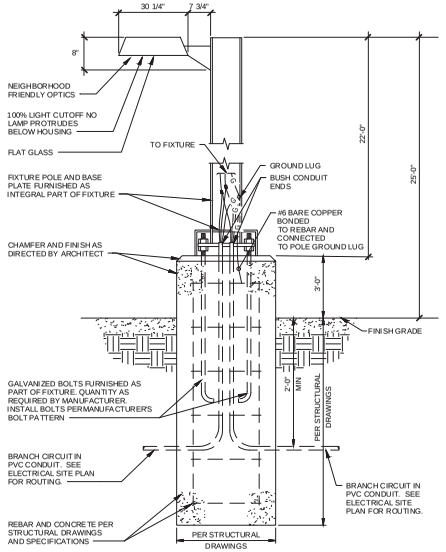
Site Luminaire Summary Table

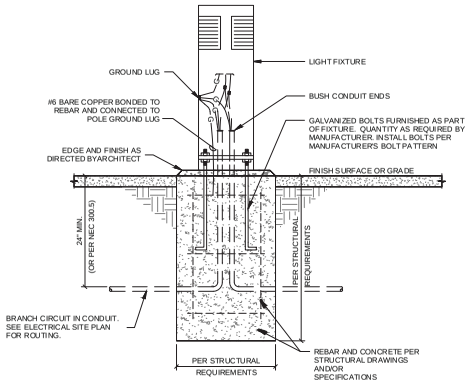
Luminaire ID/ Symbol	Manufacturer	Model	Catolog Number	Description	Full Cut Off (Y/N)	Distribution	Voltage	Dimming	Quantity	Mounting	Mounting Height	Lamps Quantity	Lamps Type	Watts	Lumens	Color Temp/CRI	Light loss factor	Fixture Finish
C6A	ALPHABET	NU	#NU6-RD-XTM19-13LM-35K-83-HE60-Z77-DIM10-NC-FINISH-FINISH	WET LOCATION DOWNLIGHT	YES	60° DOWNLIGHT	UNV	0-10%	4	CANOPY RECESSED	11'	1	LED	28	1025	3500K/80	1	BLACK
DSF	KIM	WALL DIRECTOR	#WDM/D/48L/65/4K7/3/UNV/FINISH	WET LOCATION WALL LUMINAIRE	YES	TYPE III	UNV	0-10%	12	WALL SURFACE	15'	1	LED	65	8662	4000K/70	1	DARK BRONZE
SB	KIM	VRB1	#VRB1-15L-4K-UV-FINISH	BOLLARD	YES	TYPE III	UNV	0-10%	9	BOLLARD	42" HIGH	1	LED	13	3414	4000K/70	1	DARK BRONZE
S3	BEACON	VIPER	#VP/MICRO-STRIKE/2/320I-145/4K7/3/UNV/A/FINISH/SHD-2-HSS-90-B/ADD/SSS-B-2S-SD-B-1-FINISH	AREA	YES	TYPE III	UNV	0-10%	11	POLE	25'	1	LED	150	19,293	4000K/70	1	DARK BRONZE
SF	KIM	LIGHT VAULT	#LTVB2-FF-SP-18L-4K-UNV	IN-GRADE/FLAGPOLE	NO	SPOT	UNV	0-10%	2	IN-GRADE	N/A	1	LED	22	1857	4000K/70	1	N/A
SF1	KIM	LIGHTSCAPER	#LSP-LSCS	SIGN LIGHTER	NO	WIDE	UNV	0-10%	2	STANCHION	N/A	1	LED	8.1	1025	4000K/70	1	DARK BRONZE

TOWN OF CASTLE ROCK LIGHTING NOTES:

1. LIGHT LOSS FACTOR IS TO BE 1.
2. SIGN LIGHTING LUMINAIRES, TYPE "SF1", SHALL BE ON PHOTOCELL ON-TIMED OFF CONTROL AS PER 2021 IECC ARTICLE 701.4.6.4.1.2, EXCEPTION 1. FLAG POLE LUMINAIRES, TYPE "SF", SHALL BE ON PHOTOCELL ON-PHOTOCELL OFF CONTROL. PARKING LOT AND BOLLARD LUMINAIRES, TYPE "S3" AND "SB", SHALL BE AUTOMATICALLY DIMMED 50% FROM MIDNIGHT TO 6:00AM AS PER 2021 IECC ARTICLE C405.2.7.3.
3. AREA SITE LIGHTING IS PROVIDED BY POLE MOUNTED FIXTURES TO ILLUMINATE THE ROAD WAY AROUND THE FACILITY. WALKWAY LIGHTING IS PROVIDED BY BOLLARDS TO ILLUMINATE THE PATHWAYS TO AND FROM THE FACILITY. CANOPY FIXTURES ARE PROVIDED TO ILLUMINATE UNDERNEATH THE CANOPY. BUILDING MOUNTED FIXTURES ARE PROVIDED TO ILLUMINATE THE SPACE SURROUNDING THE BUILDING.
4. FULL CUT OFF FIXTURES ARE UTILIZED TO MITIGATE LIGHT TRESPASS ACROSS PROPERTY LINE. ALL BUILDING MOUNTED LIGHT FIXTURES SHALL HAVE 0% UPLIGHT.
5. EGRESS LIGHTING LEVELS ARE IN COMPLIANCE WITH NEC 2023 AND IBC 2018.
6. FORWARD THROW LUMINAIRES ARE PROHIBITED. ALL BUILDING MOUNTED LIGHT FIXTURES SHALL HAVE 0% UPLIGHT.



2 EXTERIOR LUMINAIRE POLE CONNECTION DETAIL
N.T.S.



1 BOLLARD FIXTURE MOUNTING
NONE

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 & LOGISTICS

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 1/16/2025
REVIEWED BY: SMF/WMB
DRAWN BY: RJO
DESIGNED BY: WMB
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET ID:
43
Sheet 43 of 47

PROJECT STATUS:
Site Construction Documents

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3 WEST (FRONT) ELEVATION - LOGISTICS SIDE

SCALE: 1/8" = 1'-0"

2 WEST (FRONT) ELEVATION - FIRE STATION SIDE

SCALE: 1/8" = 1'-0"

1 WEST (FRONT) ELEVATION

SCALE: 3/32" = 1'-0"

ELEVATION KEYNOTES

1 ASPHALT SHINGLES
2 HORIZONTAL METAL PANEL, WOOD GRAIN WALNUT
3 ADHERED MANUFACTURED STONE VENEER
4 VERTICAL METAL PANEL, 12-INCH PROFILE
5 STANDING SEAM ROOF, DARK BRONZE
6 METAL PANEL, DARK BRONZE
7 STEEL STRUCTURE AND ACCENTS, DARK BRONZE
8 APPARATUS BAY OVERHEAD SECTIONAL DOORS, DEEP RED
9 SPLIT FACE CMU, LIGHT TAN
10 METAL PANEL SHINGLE SIDING, ALMOND
11 ALUMINUM STOREFRONT, DARK BRONZE
12 OPERABLE ALUMINUM WINDOWS, DARK BRONZE
13 H.M. DOORS AND FRAMES, PAINTED DARK BRONZE
14 CASTLE ROCK FIRE RESCUE DEPARTMENT LOGO SIGNAGE
15 DIMENSIONAL LETTER SIGNAGE, LIGHT GRAY COLOR
16 DOWNSPOUT, DARK BRONZE U.N.O.
17 DOWNSPOUTS ALONGSIDE STONE PILASTERS, PAINT TO MATCH STONE
18 SNOW GUARDS AT ROOF PERIMETER
19 APPARATUS BAY FOUR-FOLD DOORS, DEEP RED
20 PRECAST STONE TRIM AT TOP OF STONE VENEER
21 STEEL BRACKETS, DARK BRONZE
22 GUTTER
23 INSULATED OVERHEAD DOOR WITH GLASS PANELS, DEEP RED
24 METAL PARAPET CAP, DARK BRONZE
25 FLAT ROOF
26 SCUPPER AND DOWNSPOUT
27 FIRE DEPARTMENT CONNECTION (FDC)
28 FIRE SPRINKLER ROOM
29 MECHANICAL SCREEN, MATCH VERTICAL METAL PANEL
30 COILING DOOR, DARK BRONZE
31 CORNERSTONE LAID INTO STONE VENEER, EXACT SIZE T.B.D.
32 PAINT EXPOSED PIPING, CONDUIT, AND EQUIPMENT TO MATCH WALL SURFACE COLOR, TYPICAL
33 BACK-LIT DIMENSIONAL LETTER SIGNAGE 30" TALL, RED
34 SCREEN WALL AT LOGISTICS PATIO, SPLIT FACE CMU, LIGHT TAN

EXTERIOR MATERIAL LEGEND

ASPHALT SHINGLES
BASIS OF DESIGN: OWENS CORNING, TRUDEFINITION DURATION FLEX (CLASS 4 HAIL RESISTANCE)
COLOR: DRIFTWOOD

VERTICAL METAL WALL PANEL
BASIS OF DESIGN: BERRIDGE
STYLE: HS-12
COLOR: ALMOND

METAL WALL PANEL SHINGLES
BASIS OF DESIGN: BERRIDGE FISH SCALE SHINGLES
COLOR: ALMOND

ADHERED MANUFACTURED STONE VENEER
BASIS OF DESIGN: SUNSET STONE
STYLE & COLOR: 70/30 BLEND OF NATURAL COBBLE AND NATURAL LEDGE STONE

STANDING SEAM ROOF
BASIS OF DESIGN: BERRIDGE CEE-LOCK PANEL
COLOR: DARK BRONZE

HORIZONTAL METAL PANEL
BASIS OF DESIGN: HS-8
COLOR: WOOD GRAIN WALNUT

FOUR-FOLD / OVERHEAD DOORS
COLOR: RED

OVERHEAD DOORS
COLOR: DARK BRONZE

SPLIT-FACE CMU WALL
COLOR: LIGHT TAN

STEEL STRUCTURE AND ACCENTS
COLOR: DARK BRONZE

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/2/15/2025
REVIEWED BY:	TL
DRAWN BY:	MD
DESIGNED BY:	MD

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
44
Sheet 44 of 47

PROJECT STATUS:
Site Construction Documents

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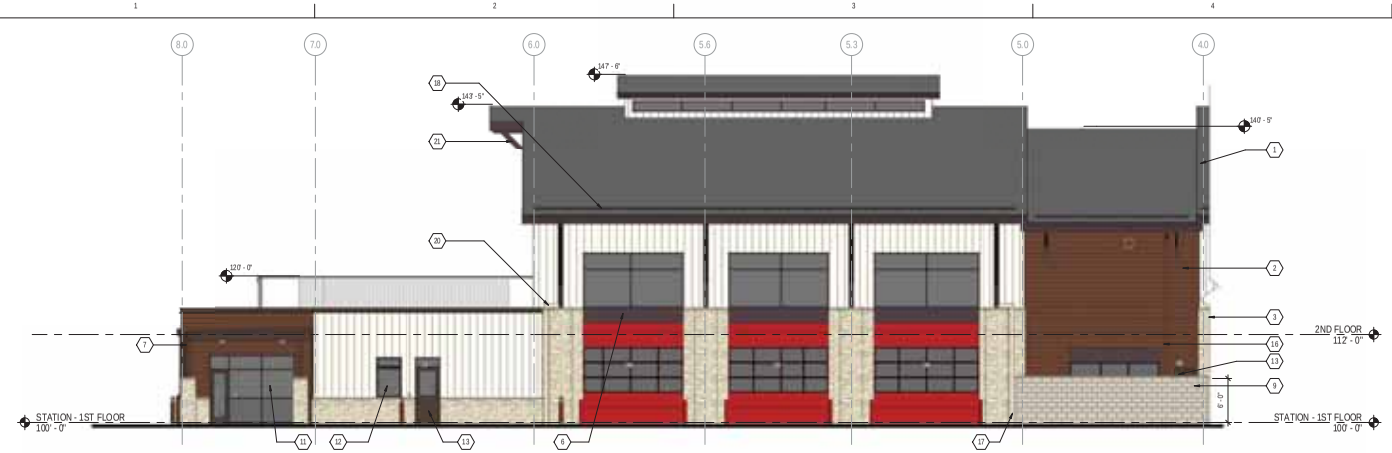

2 EAST (BACK) ELEVATION - FIRE STATION

SCALE: 1/8" = 1'-0"

3 EAST (BACK) ELEVATION - LOGISTICS

SCALE: 1/8" = 1'-0"

1 EAST (BACK) ELEVATION

SCALE: 3/32" = 1'-0"

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BASIS OF DESIGN: HS-8
COLOR: WOOD GRAIN WALNUT

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COLOR: RED

OVERHEAD DOORS
COLOR: DARK BRONZE

SPLIT-FACE CMU WALL
COLOR: LIGHT TAN

STEEL STRUCTURE AND ACCENTS
COLOR: DARK BRONZE

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/2/15/2025
REVIEWED BY:	TL
DRAWN BY:	MD
DESIGNED BY:	MD

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BUILDING ELEVATIONS

SHEET ID:
45
Sheet 45 of 47

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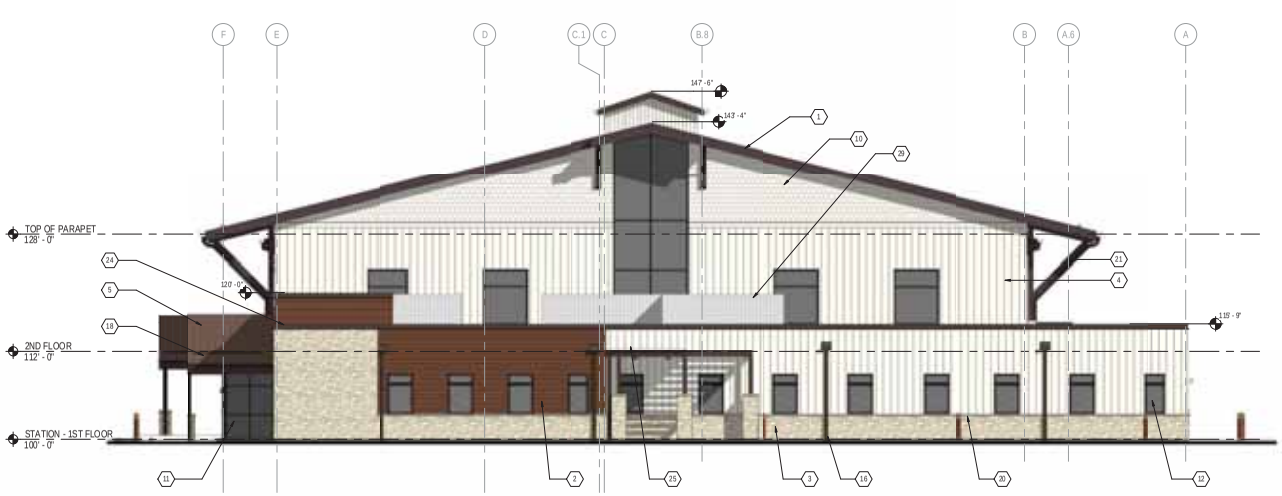
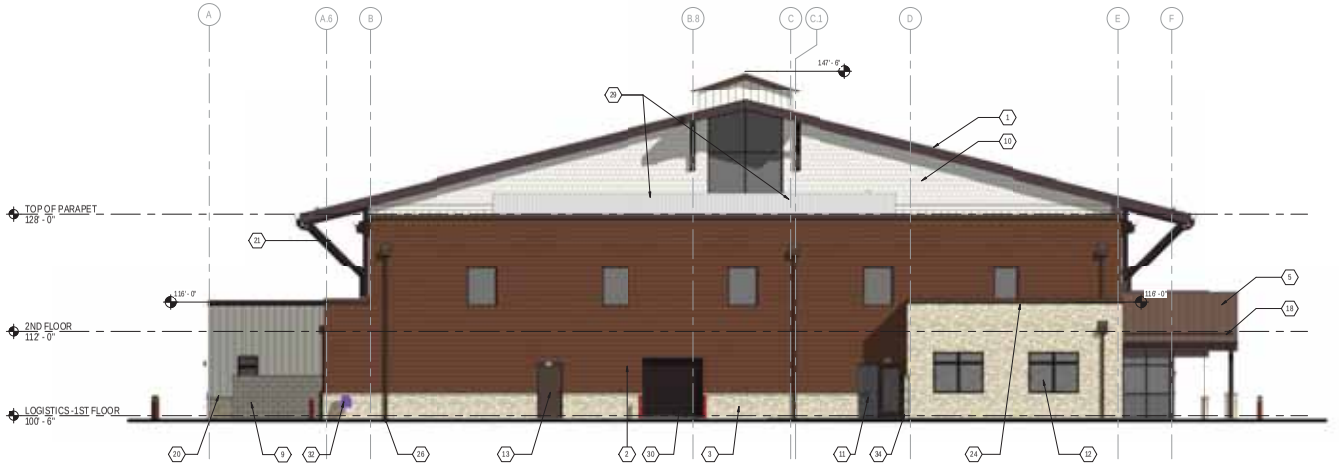


2 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"

ELEVATION KEYNOTES

1 ASPHALT SHINGLES
2 HORIZONTAL METAL PANEL, WOOD GRAIN WALNUT
3 ADHERED MANUFACTURED STONE VENEER
4 VERTICAL METAL PANEL, 12-INCH PROFILE
5 STANDING SEAM ROOF, DARK BRONZE
6 METAL PANEL, DARK BRONZE
7 STEEL STRUCTURE AND ACCENTS, DARK BRONZE
8 APPARATUS BAY OVERHEAD SECTIONAL DOORS, DEEP RED
9 SPLIT FACE CMU, LIGHT TAN
10 METAL PANEL SHINGLE SIDING, ALMOND
11 ALUMINUM STOREFRONT, DARK BRONZE
12 OPERABLE ALUMINUM WINDOWS, DARK BRONZE
13 H.M. DOORS AND FRAMES, PAINTED DARK BRONZE
14 CASTLE ROCK FIRE RESCUE DEPARTMENT LOGO SIGNAGE
15 DIMENSIONAL LETTER SIGNAGE, LIGHT GRAY COLOR
16 DOWNSPOUT, DARK BRONZE U.N.O.
17 DOWNSPOUTS ALONGSIDE STONE PILASTERS, PAINT TO MATCH STONE
18 SNOW GUARDS AT ROOF PERIMETER
19 APPARATUS BAY FOUR-FOLD DOORS, DEEP RED
20 PRECAST STONE TRIM AT TOP OF STONE VENEER
21 STEEL BRACKETS, DARK BRONZE
22 GUTTER
23 INSULATED OVERHEAD DOOR WITH GLASS PANELS, DEEP RED
24 METAL PARAPET CAP, DARK BRONZE
25 FLAT ROOF
26 SCUPPER AND DOWNSPOUT
27 FIRE DEPARTMENT CONNECTION (FDC)
28 FIRE SPRINKLER ROOM
29 MECHANICAL SCREEN, MATCH VERTICAL METAL PANEL
30 COILING DOOR, DARK BRONZE
31 CORNER STONE LAID INTO STONE VENEER, EXACT SIZE TBD.
32 PAINT EXPOSED PIPING, CONDUIT, AND EQUIPMENT TO MATCH WALL SURFACE COLOR, TYPICAL
33 BACKLIT DIMENSIONAL LETTER SIGNAGE 30' TALL, RED
34 SCREEN WALL AT LOGISTICS PATIO, SPLIT FACE CMU, LIGHT TAN

EXTERIOR MATERIAL LEGEND

ASPHALT SHINGLES
BASIS OF DESIGN: OWENS CORNING, TRUDEFINITION DURATION FLEX (CLASS 4 HAIL RESISTANCE)
COLOR: DRIFTWOOD

VERTICAL METAL WALL PANEL
BASIS OF DESIGN: BERRIDGE
STYLE: HS-12
COLOR: ALMOND

METAL WALL PANEL SHINGLES
BASIS OF DESIGN: BERRIDGE FISH SCALE SHINGLES
COLOR: ALMOND

ADHERED MANUFACTURED STONE VENEER
BASIS OF DESIGN: SUNSET STONE
STYLE & COLOR: 70/30 BLEND OF NATURAL COBBLE AND NATURAL LEDGE STONE

STANDING SEAM ROOF
BASIS OF DESIGN: BERRIDGE CEE-LOCK PANEL
COLOR: DARK BRONZE

HORIZONTAL METAL PANEL
BASIS OF DESIGN: HS-8
COLOR: WOOD GRAIN WALNUT

FOUR-FOLD / OVERHEAD DOORS
COLOR: RED

OVERHEAD DOORS
COLOR: DARK BRONZE

SPLIT-FACE CMU WALL
COLOR: LIGHT TAN

STEEL STRUCTURE AND ACCENTS
COLOR: DARK BRONZE

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services — Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/2/15/2025
REVIEWED BY:	TL
DRAWN BY:	MD
DESIGNED BY:	MD

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
46
Sheet 46 of 47

PROJECT STATUS:
Site Construction Documents

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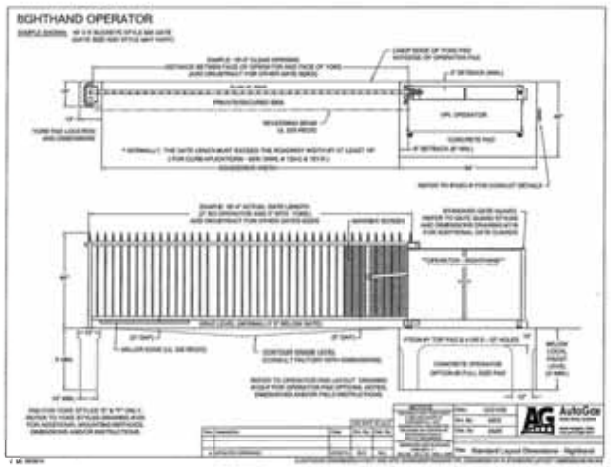
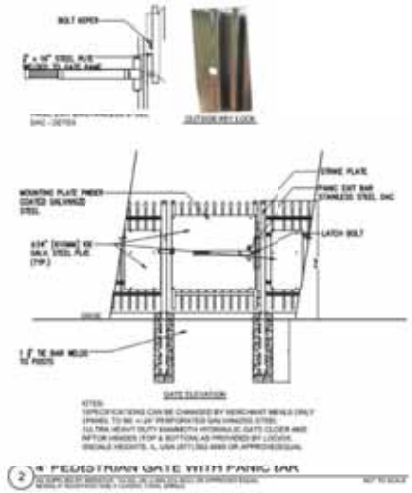
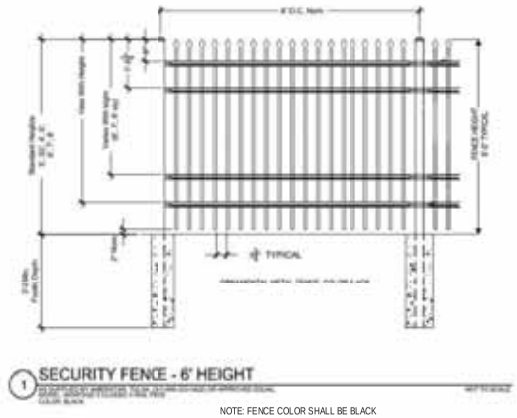
1/15/2026 3:43:15 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/16322_Castle Rock Fire 156 and Fleet_A_R24.rvt



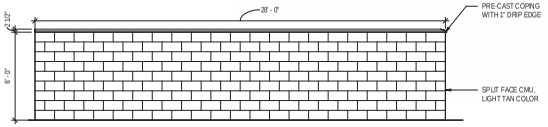
NOTE: FENCE COLOR SHALL BE BLACK



NOTE: FENCE COLOR SHALL BE BLACK

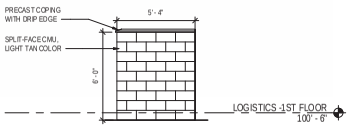


NOTE: FENCE COLOR SHALL BE BLACK



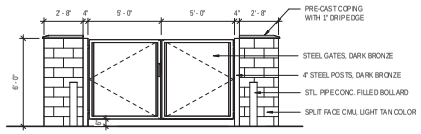
7 SCREEN WALL AT LOGISTICS PATIO - NORTH ELEVATION

SCALE: 1/4" = 1'-0"



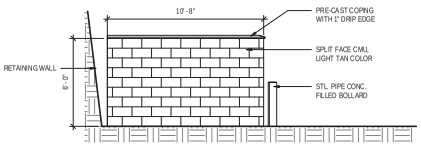
8 SCREEN WALL AT LOGISTICS PATIO - WEST ELEVATION

SCALE: 1/4" = 1'-0"



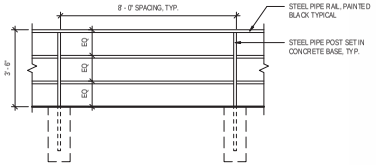
3 TRASH ENCLOSURE - FRONT ELEVATION

SCALE: 1/4" = 1'-0"



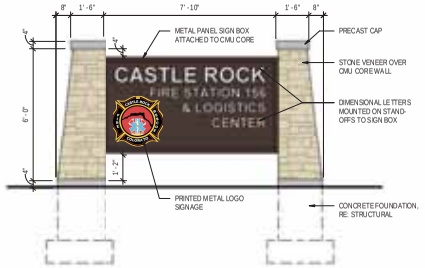
4 TRASH ENCLOSURE - SIDE ELEVATION

SCALE: 1/4" = 1'-0"



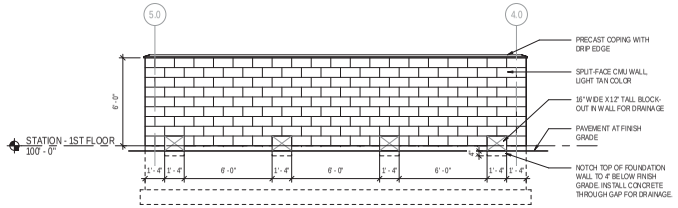
5 RAILING AT TOP OF RETAINING WALL

SCALE: 3/8" = 1'-0"



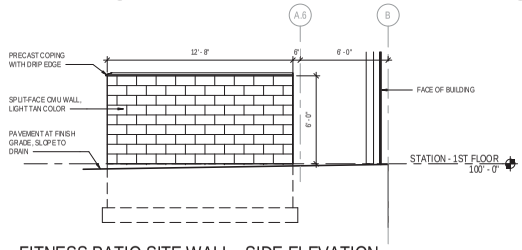
6 MONUMENT SIGN - ELEVATION

SCALE: 3/8" = 1'-0"



1 FITNESS PATIO SITE WALL - FRONT ELEVATION

SCALE: 1/4" = 1'-0"



2 FITNESS PATIO SITE WALL - SIDE ELEVATION

SCALE: 1/4" = 1'-0"

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/2/15/2025
REVIEWED BY:	TL
DRAWN BY:	MD
DESIGNED BY:	MD
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
SITE DETAILS

SHEET ID:
47
Sheet 47 of 47

PROJECT STATUS:
Site Construction Documents

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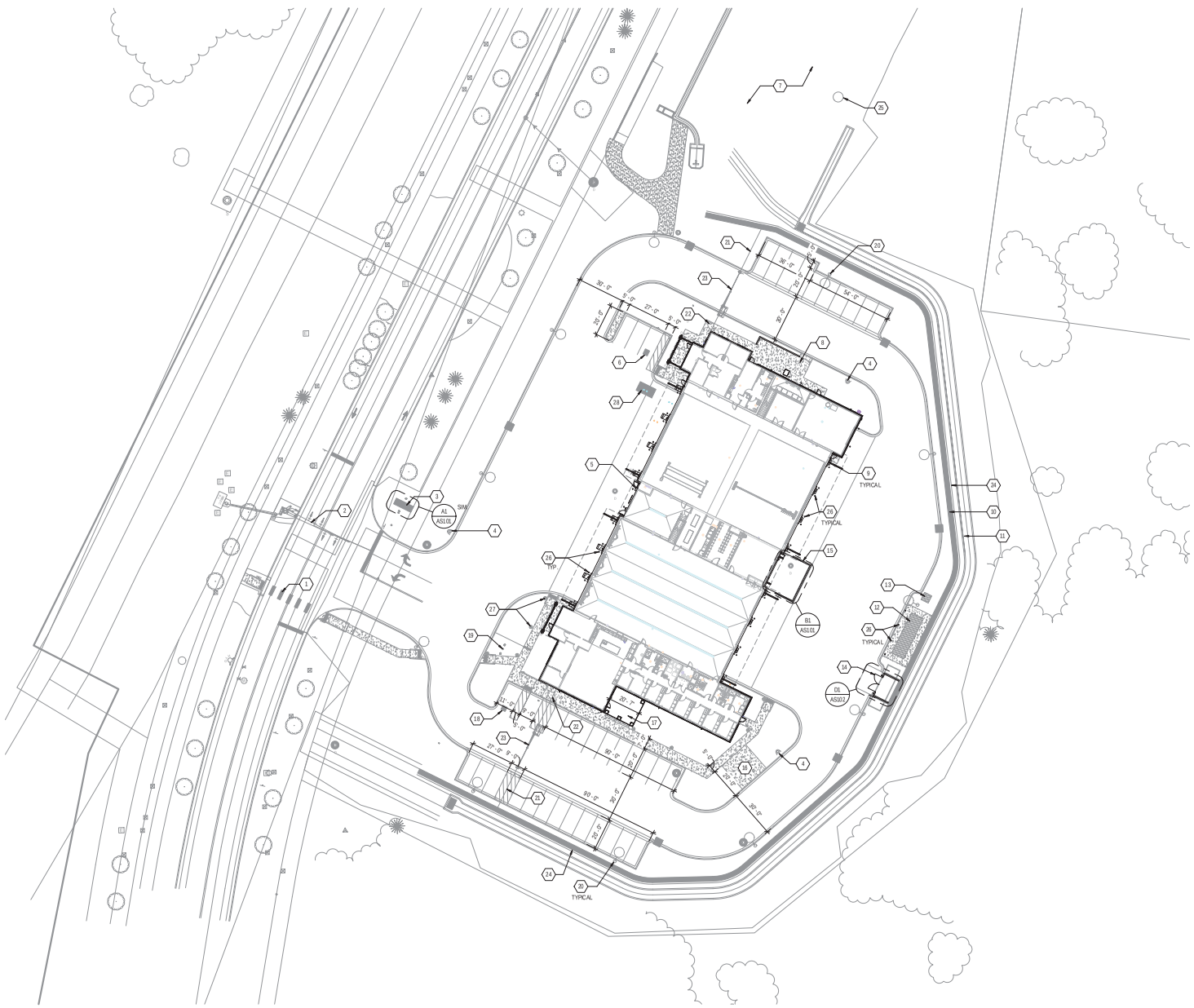

GENERAL SITE PLAN NOTES

DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.

ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.

CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

EXISTING UTILITIES, STRUCTURES, AND VEGETATION TO BE PROTECTED UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR EXTENTS OF DISTURBANCE. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR IMPROVED CONDITION.

SITE GRADING SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. MAINTAIN A MINIMUM SLOPE OF 5 PERCENT IN THE FIRST 10 FEET AWAY FROM THE BUILDING IN AREAS NOT COVERED WITH PAVEMENT OR CONCRETE SLABS. PAVEMENT AND SIDEWALKS ADJACENT TO THE BUILDING SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM THE BUILDING, EXCEPT WHERE THE SURFACE IS A DOOR LANDING OR RAMP COMPLYING WITH ACCESSIBILITY STANDARDS.

ALL ROOF DRAIN LEADERS AND DOWNSPOUTS SHALL BE CONNECTED TO UNDERGROUND STORM DRAIN LINES. COORDINATE EXACT LOCATIONS WITH CIVIL DRAWINGS.

AUTOMATIC VEHICULAR GATES SHALL COMPLY WITH THE REQUIREMENTS OF 2021 IBC SECTIONS 3110.2 AND 3110.3 AND OTHER APPLICABLE SECTIONS OF THE CODE. 3110.2 VEHICULAR GATES INTENDED FOR AUTOMATION SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ASTM F2200. 3110.3 VEHICULAR GATE OPENERS, WHERE PROVIDED, SHALL BE LISTED IN ACCORDANCE WITH UL 325.

SITE PLAN KEYNOTES

1 PEDESTRIAN CROSSING TO PUBLIC SIDEWALK.
2 EMERGENCY TRAFFIC SIGNAL.
3 CASTLE ROCK FIRE RESCUE MONUMENT SIGN
4 FIRE HYDRANT, RE: CIVIL DRAWINGS
5 FIRE DEPARTMENT CONNECTION (FDC)
6 ACCESSIBLE PARKING STALL
7 NEW DETENTION POND
8 ACCESS DRIVE FOR LOGISTICS FLUID TANKS
9 DOWNSPOUT, TYP. CONNECT TO UNDERGROUND STORM DRAIN RE: CIVIL
10 SOIL NAIL RETAINING WALL, RE: CIVIL
11 9' WIDE CONCRETE DRAIN AROUND RETAINING WALL
12 DIESEL FUEL ENGINE GENERATOR, RE: ELECTRICAL
13 ELECTRICAL TRANSFORMER
14 CMU TRASH ENCLOSURE WITH METAL GATE
15 CMU WALL AROUND EXTERIOR FITNESS PATIO
16 DIESEL FUEL AND DEF DISPENSER STATION
17 PATIO WITH WOOD AND STEEL PERGOLA
18 VAN ACCESSIBLE PARKING STALL
19 FLAGPOLE WITH IN GROUND LIGHTING
20 LIGHT POLE WITH ELECTRICAL OUTLETS. SEE ELECTRICAL PLANS
21 DECORATIVE METAL SECURITY FENCE WITH PRIVACY SCREENING
22 PEDESTRIAN GATE AT SECURITY FENCE, PROVIDE ACCESS CONTROL HARDWARE AND CARD READER
23 24 FT. WIDE VERTICAL PIVOT GATE WITH OPERATOR
24 3-RAIL METAL GUARDRAIL AT TOP OF RETAINING WALL
25 EXISTING WELL HEAD TO REMAIN
26 CONCRETE-FILLED STEEL BOLLARD, PAINTED RED, TYPICAL
27 LIGHT BOLLARD, RE: ELECTRICAL
28 SAND-OIL SEPARATOR, RE: CIVIL AND PLUMBING FOR SIZE AND LOCATION

N

A1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET ID:
AS100

PROJECT STATUS:
Construction Documents

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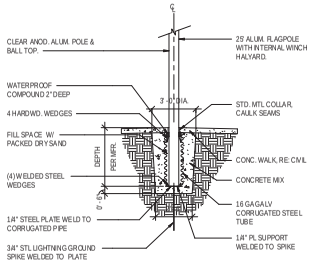
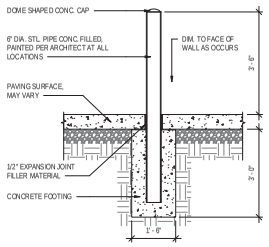


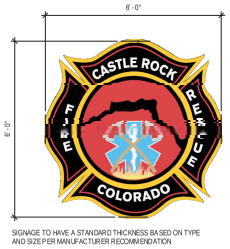
D1 FLAGPOLE DETAIL

SCALE: 1/4" = 1'-0"



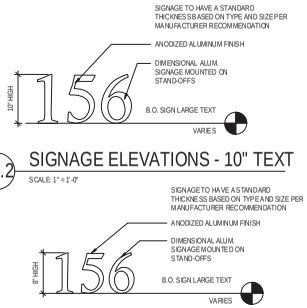
D2 PIPE BOLLARD

SCALE: 1/2" = 1'-0"



D3 CASTLE ROCK LOGO SIGNAGE

SCALE: 1/2" = 1'-0"

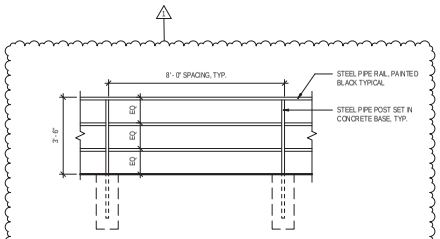


D3.2 SIGNAGE ELEVATIONS - 10" TEXT

SCALE: 1" = 1'-0"

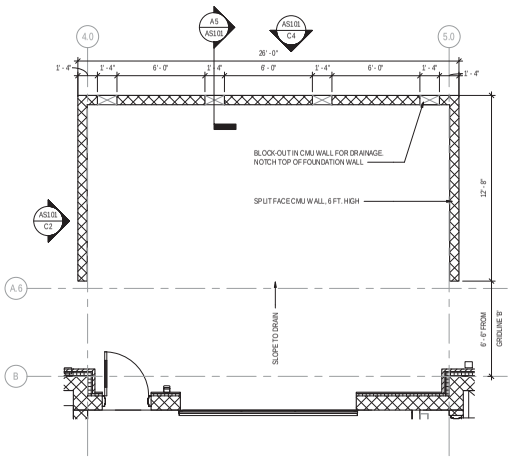
D3.1 SIGNAGE ELEVATIONS - 8" TEXT

SCALE: 1" = 1'-0"



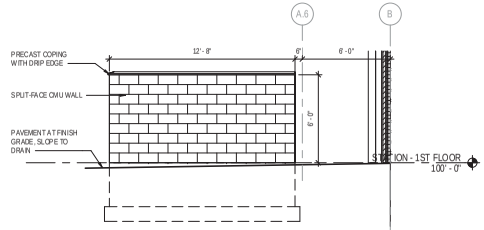
D4 RAILING AT TOP OF RETAINING WALL

SCALE: 3/8" = 1'-0"



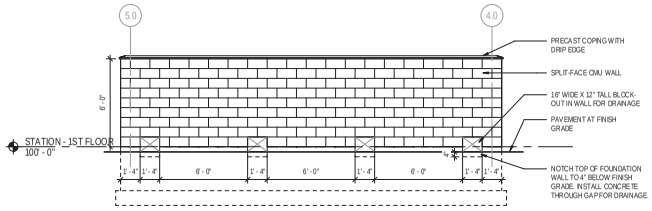
B1 FITNESS PATIO - ENLARGED PLAN

SCALE: 1/4" = 1'-0"



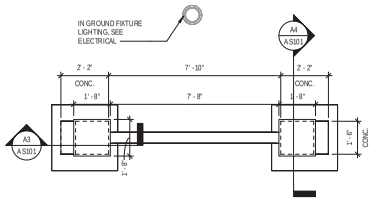
C2 FITNESS PATIO SITE WALL - SIDE ELEVATION

SCALE: 1/4" = 1'-0"



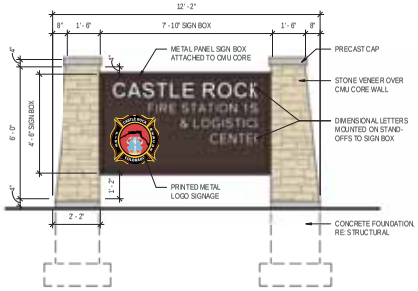
C4 FITNESS PATIO SITE WALL - FRONT ELEVATION

SCALE: 1/4" = 1'-0"



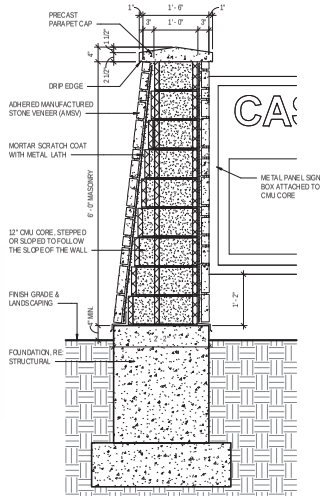
A1 MONUMENT SIGN - PLAN

SCALE: 3/8" = 1'-0"



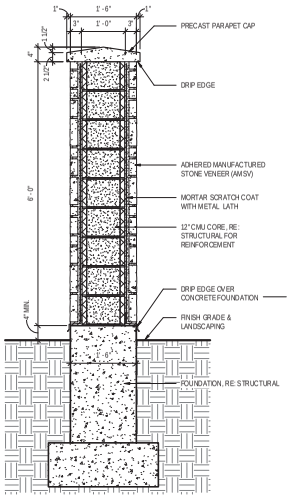
A2 MONUMENT SIGN - ELEVATION

SCALE: 3/8" = 1'-0"



A3 MONUMENT SIGN - DETAIL A2

SCALE: 3/4" = 1'-0"



A4 MONUMENT SIGN - DETAIL A1

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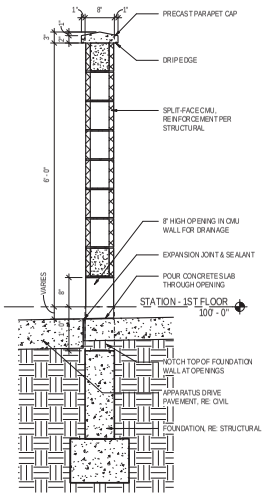

A5 TYPICAL SITE WALL DETAIL

SCALE: 3/4" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01.29.2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	TL
DRAWN BY:	MD
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
ARCHITECTURAL SITE PLAN DETAILS

SHEET ID:
AS101

PROJECT STATUS:
Construction Documents

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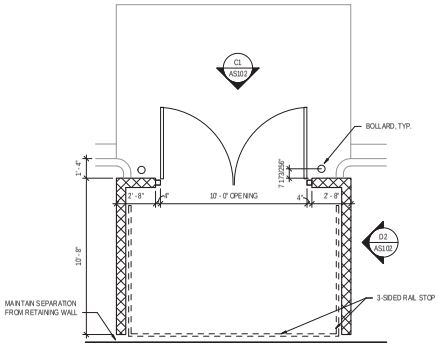
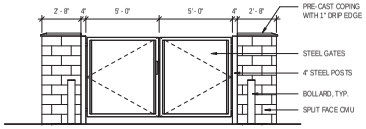


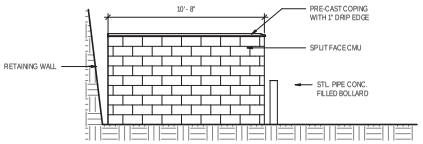
D1 TRASH ENCLOSURE - ENLARGED PLAN

SCALE: 1/4" = 1'-0"



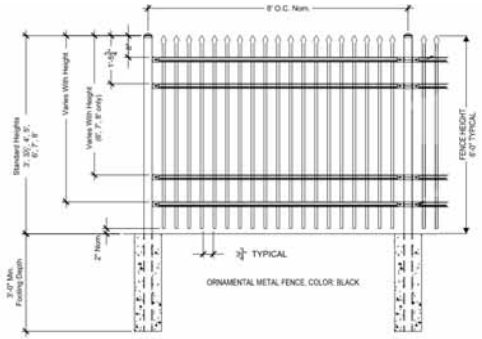
C1 TRASH ENCLOSURE - FRONT ELEVATION

SCALE: 1/4" = 1'-0"



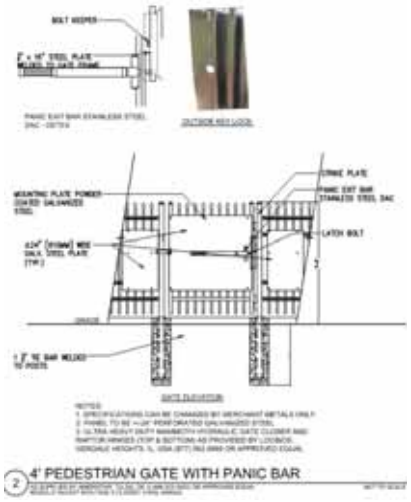
D2 TRASH ENCLOSURE - SIDE ELEVATION

SCALE: 1/4" = 1'-0"

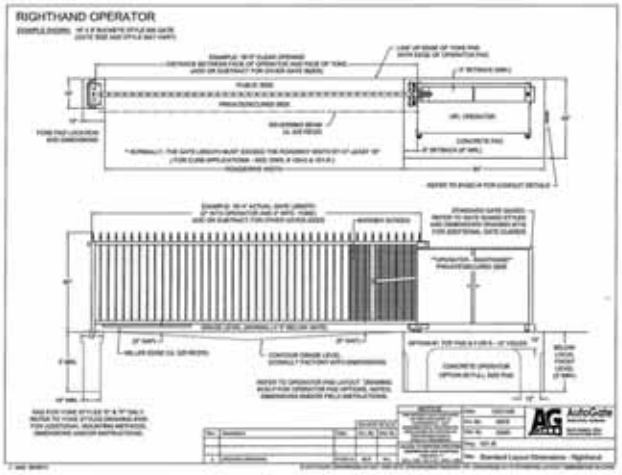


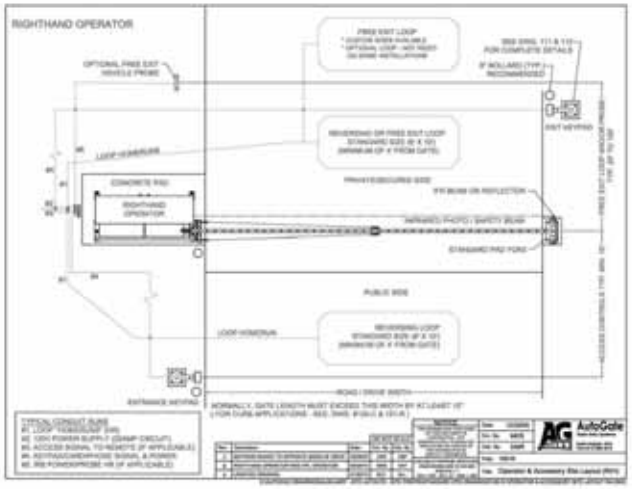
1 SECURITY FENCE - 6' HEIGHT

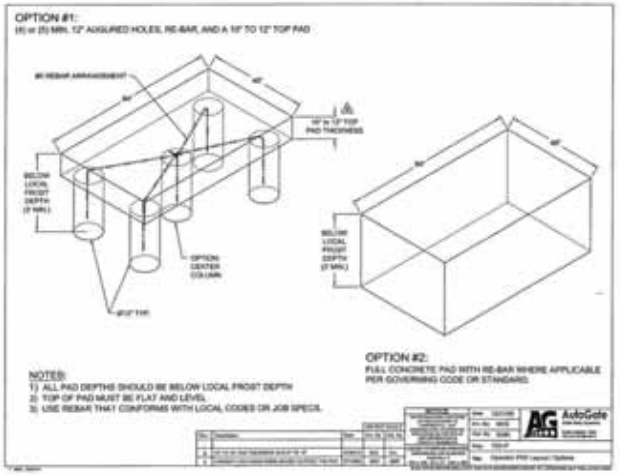
NOT TO SCALE



2 4' PEDESTRIAN GATE WITH PANIC BAR







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102 East Moreno Avenue
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719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
ARCHITECTURAL SITE PLAN DETAILS

SHEET ID:
AS102

PROJECT STATUS:
Construction Documents

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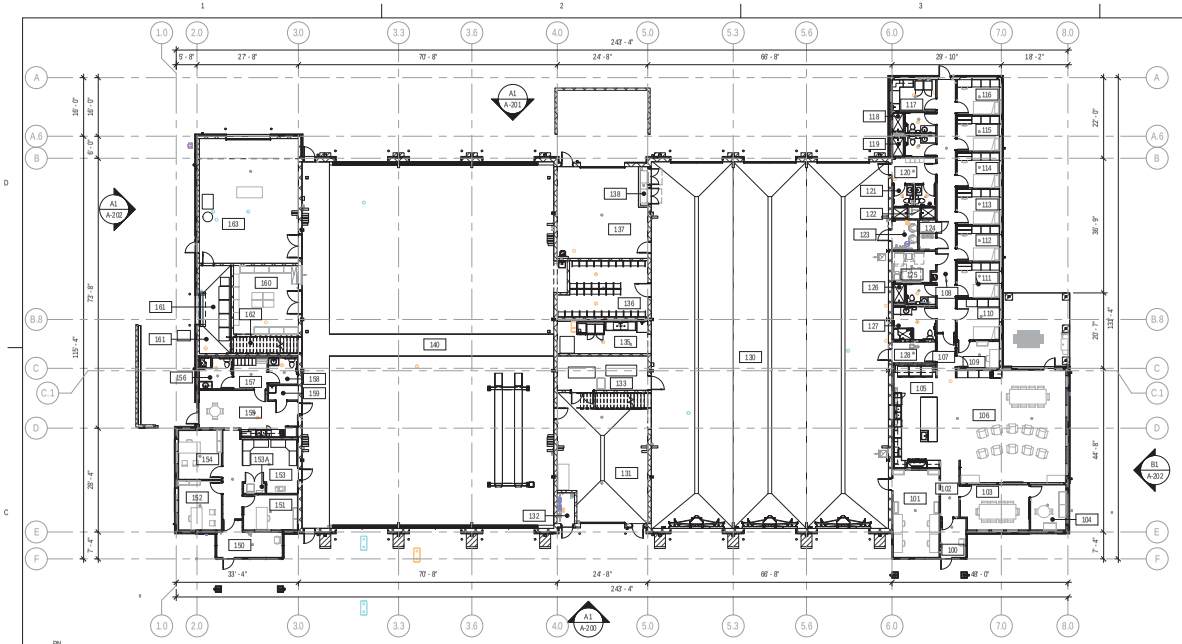
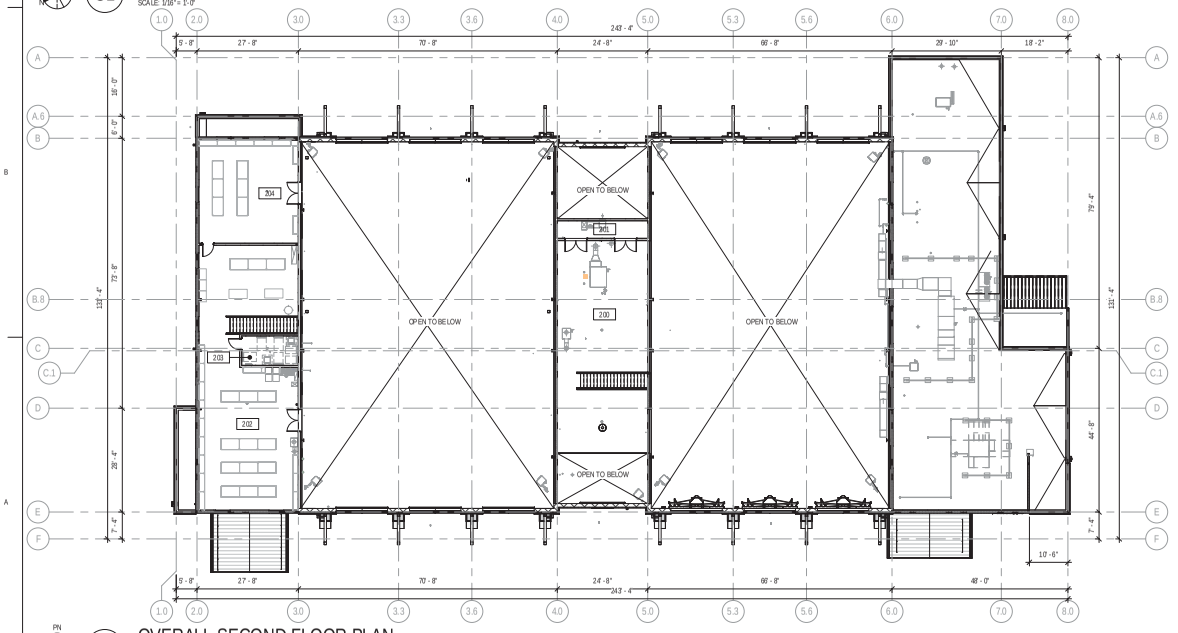


C1 OVERALL FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"



A1 OVERALL SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.

ROOM SCHEDULE

Number	Name	Area
100	FIRE LOBBY	75 SF
101	DUTY OFFICE	302 SF
102	HALL	78 SF
103	TRAINING	224 SF
104	HISTORY	118 SF
105	KITCHEN	351 SF
106	DINING / DAYROOM	1009 SF
107	HALL	60 SF
108	HALL	348 SF
109	OFFICE	94 SF
110	ADA BUNK	127 SF
111	BUNK	109 SF
112	BUNK	109 SF
113	BUNK	109 SF
114	BUNK	109 SF
115	BUNK	109 SF
116	BUNK	109 SF
117	LAUNDRY	101 SF
118	BATH	64 SF
119	BATH	64 SF
120	AIRLOCK	82 SF
121	DECON SHOWER	44 SF
122	DECON SHOWER	44 SF
123	MECH	67 SF
124	COMM	37 SF
125	ELEC	95 SF
126	BATH	62 SF
127	ADA BATH	101 SF
128	AIRLOCK	68 SF
130	FIRE STATION APPARATUS BAYS	6477 SF
131	GARAGE	813 SF
132	WATER ENTRY & FDC	39 SF
133	SHOP AIR & SCBA	231 SF
135	DECON LAUNDRY	217 SF
136	BUNKER GEAR	347 SF
137	FITNESS	587 SF
138	ELEC	21 SF
140	LOGISTICS APPARATUS BAYS	6877 SF
150	LOGISTICS LOBBY	140 SF
151	ADMIN	141 SF
152	OFFICE	158 SF
153	OPEN OFFICE	328 SF
153A	COMM	16 SF
154	OFFICE	158 SF
155	BREAK	291 SF
156	STAFF SHOWER	74 SF
157	STAFF LOCKER	77 SF
158	RESTROOM	55 SF
159	JANITOR	32 SF
160	PARTS	331 SF
161	BULK FLUID	209 SF
163	SHOP & UPFIT	920 SF
200	FIRESTATION MEZZANINE	1477 SF
201	MECH	116 SF
202	OPEN STORAGE	1808 SF
203	ELECTRICAL	123 SF
204	STORAGE	759 SF
205	LOGISTICS BAY ALCOVE	23 SF
X1	PATIO	348 SF
X2	FITNESS PATIO	485 SF

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
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DRAWN BY: Author
DESIGNED BY: Designer
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SEAL:

SHEET TITLE:
OVERALL FLOOR PLANS

SHEET ID:
A-100

PROJECT STATUS:
Construction Documents

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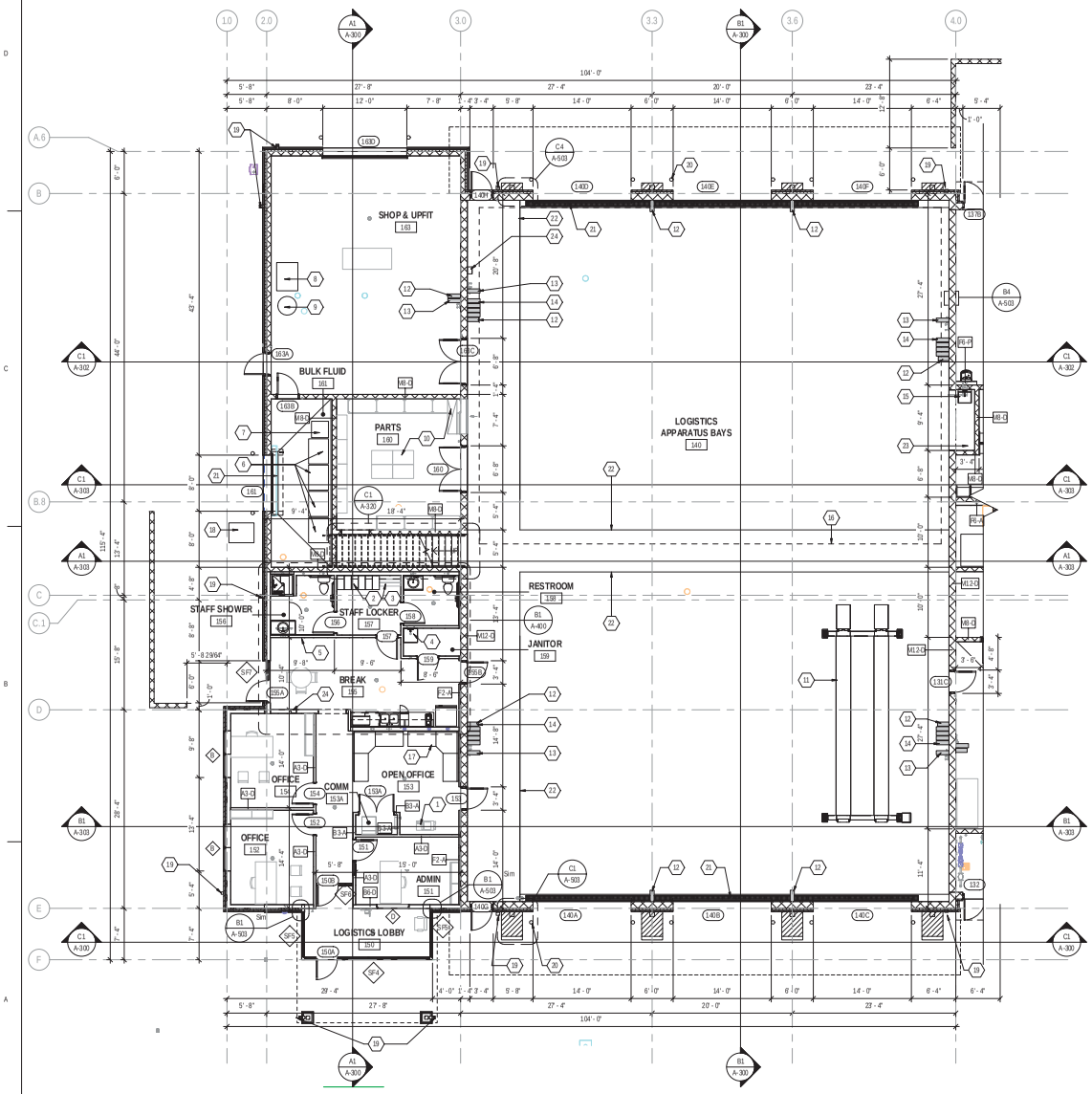

1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

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3. FURNITURE IS SHOWN IN FLOOR PLANS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE AND INSTALL FURNITURE, VERIFYING DIMENSIONS AND CONDITIONS DURING CONSTRUCTION. REFER TO FF&E SCHEDULE PROVIDED BY OWNER'S REPRESENTATIVE.
4. REFER TO PARTITION TYPES SCHEDULE ON G-005 FOR PARTITION INFORMATION, AND GENERAL HEAD, WALL, AND FLOOR CONDITION DETAILS.
5. INTERIOR FINISH MATERIALS ARE INDICATED ON A-130, A-131, AND A-132. REFER TO FINISH SCHEDULES FOR BASIS OF DESIGN MATERIALS.
6. REFER TO ENLARGED BATHROOM AND KITCHEN PLANS FOR FINISH DIMENSIONS, CLEARANCES, CASEWORK, ACCESSORIES, AND ACCESSIBILITY REQUIREMENTS IN THOSE ROOMS. GENERAL ACCESSIBILITY NOTES ARE FOUND ON G-003.
7. IF DOORS ARE NOT SPECIFICALLY LOCATED OR DIMENSIONED ON THE PLANS, PROVIDE A HINGE SIDE DIMENSION OF 4" FOR ADJACENT PERPENDICULAR WALL.

FLOOR PLAN KEYNOTES

1 OFFICE PRINTER, REFER TO FF&E SCHEDULE.
2 12" WIDTH BY 24" DEEP DOUBLE-STACKED LOCKERS, REFER TO FF&E SCHEDULE.
3 BENCH WITH BOOT SHELF, REFER TO FF&E SCHEDULE.
4 2.4'X2.4' MOP SINK BASIN WITH MOP HOLDERS AND SS SHELF ON WALL ABOVE. FRP PANELS TO 80" AFF ON ADJACENT WALLS.
5 TELEVISION LOCATION, PROVIDE BLOCKING IN WALLS FOR TV MOUNT. REFER TO ELECTRICAL FOR POWER AND DATA.
6 300 GALLON FLUID TANKS AND PUMPS, PROVIDED AND INSTALLED BY FLUIDS SUPPLIER
7 165 GALLON FLUID TANK AND PUMP, PROVIDED AND INSTALLED BY FLUIDS SUPPLIER
8 MEDIA BLAST CABINET, REFER TO FF&E SCHEDULE.
9 PARTS WASHER, REFER TO FF&E SCHEDULE.
10 STORAGE SHELVING AND CABINETS, REFER TO FF&E SCHEDULE
11 4-POST LIFT STATION MOUNTED TO APPARATUS BAY FLOOR SLAB
12 COMPRESSED AIR HOSE REEL MOUNTED TO WALL, REFER TO PLUMBING FOR COMPRESSED AIR SYSTEM.
13 WATER HOSE REEL MOUNTED TO WALL, REFER TO PLUMBING FOR WATER CONNECTIONS.
14 HOSE REELS FOR MAINTENANCE FLUIDS, PROVIDED AND INSTALLED BY FLUIDS SUPPLIER. OIL, COOLANT, ATF, HYDRAULIC
15 UTILITY SINK AND FAUCET WITH HOSE ATTACHMENT AND FOOT PEDAL, RE: PLUMBING
16 OVERHEAD BRIDGE CRANE MOUNTED ON STEEL BEAMS ABOVE, RE: STRUCTURAL
17 OFFICE WORKSTATION FURNITURE, REFER TO FF&E SCHEDULE
18 WASTE OIL FLUID TANK, PROVIDED AND INSTALLED BY FLUIDS SUPPLIER
19 DOWNSPOUT
20 CONCRETE-FILLED STEEL BOLLARD, PAINTED RED, TYPICAL
21 TRENCH DRAIN
22 FLAT CONCRETE FLOOR. SEE SLOPE ARROW FOR SLOPING PORTION OF BAY.
23 SLAB TO BE CONTINUOUS IN NOOK. PROVIDE JOINTS AS NECESSARY.
24 FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED AT CMU WALLS & RECESSED AT STUD WALLS

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PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY: Checker
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FIRST FLOOR PLAN - LOGISTICS

SHEET ID:
A-101

PROJECT STATUS:
Construction Documents

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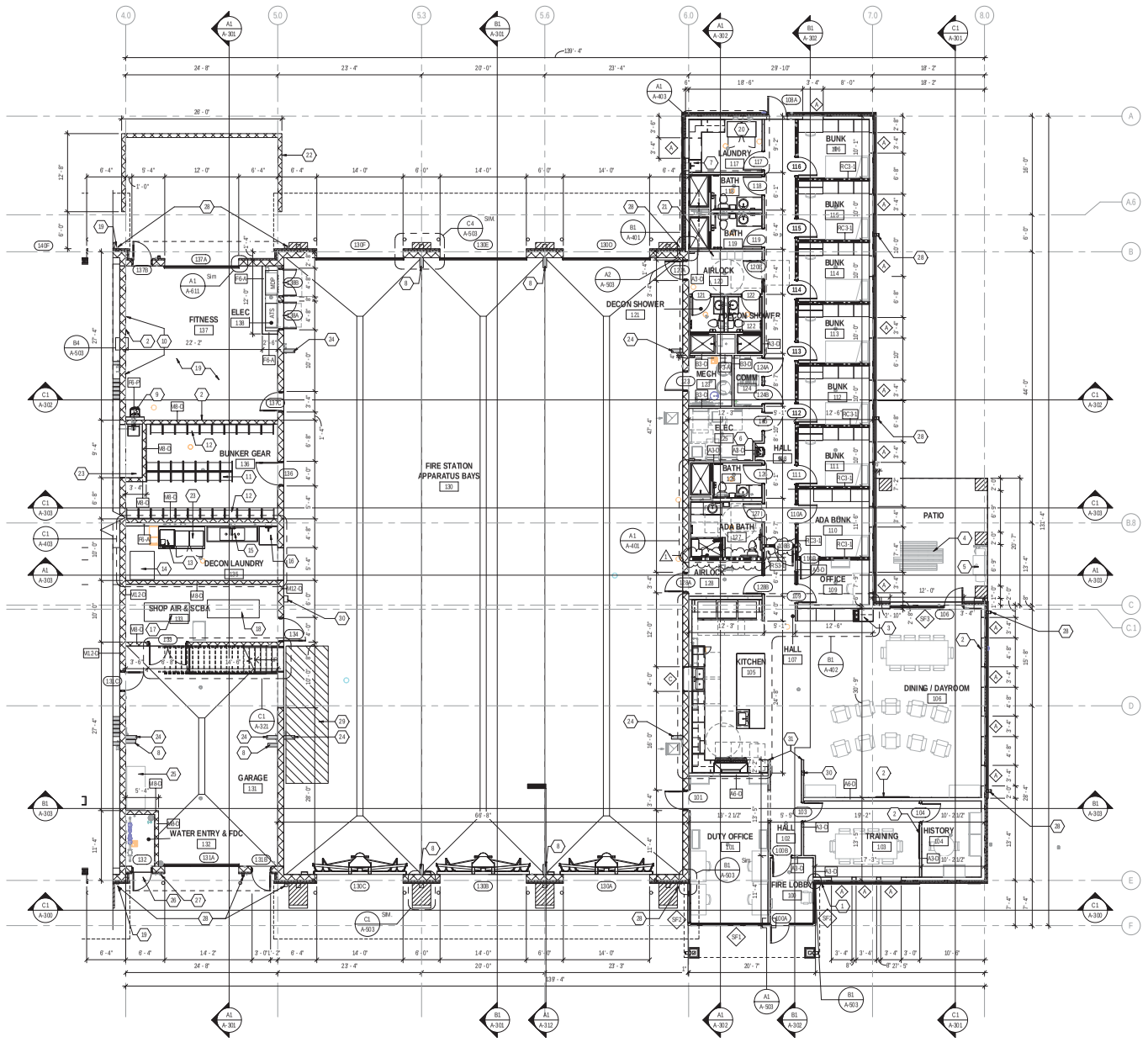

PN

A1

1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
3. FURNITURE IS SHOWN IN FLOOR PLANS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE AND INSTALL FURNITURE, VERIFYING DIMENSIONS AND CONDITIONS DURING CONSTRUCTION. REFER TO FF&E SCHEDULE PROVIDED BY OWNER'S REPRESENTATIVE.
4. REFER TO PARTITION TYPES SCHEDULE ON G-005 FOR PARTITION INFORMATION, AND GENERAL HEAD, WALL, AND FLOOR CONDITION DETAILS.
5. INTERIOR FINISH MATERIALS ARE INDICATED ON A-130, A-131, AND A-132. REFER TO FINISH SCHEDULES FOR BASIS OF DESIGN MATERIALS.
6. REFER TO ENLARGED BATHROOM AND KITCHEN PLANS FOR FINISH DIMENSIONS, CLEARANCES, CASEWORK, ACCESSORIES, AND ACCESSIBILITY REQUIREMENTS IN THOSE ROOMS. GENERAL ACCESSIBILITY NOTES ARE FOUND ON G-003.
7. IF DOORS ARE NOT SPECIFICALLY LOCATED OR DIMENSIONED ON THE PLANS, PROVIDE A HINGE SIDE DIMENSION OF 4" FOR ADJACENT PERPENDICULAR WALL.

FLOOR PLAN KEYNOTES

1. KNOX BOX, MOUNTED AT 84" AFF IN STONE VENEER. VERIFY EXACT LOCATION WITH FIRE DEPARTMENT.
2. TELEVISION LOCATION. PROVIDE BLOCKING IN WALLS FOR TV MOUNT. REFER TO ELECTRICAL FOR POWER AND DATA.
3. COFFEE MAKER AT COUNTERTOP IN DINING ROOM. PROVIDE WATER CONNECTION. RE: PLUMBING
4. PICNIC TABLE. REFER TO FF&E SCHEDULE.
5. GAS GRILL ON PATIO, REFER TO FF&E SCHEDULE.
6. DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL-MOUNTED AT ADA HEIGHT.
7. 24"X24" MOP SINK BASIN. PROVIDE FRP PANELS TO 60" AFF ON ADJACENT WALLS AND FULL COVERAGE OF CASEWORK END PANEL IN LAUNDRY ROOM 117
8. COMPRESSED AIR HOSE REEL MOUNTED TO WALL. REFER TO PLUMBING FOR COMPRESSED AIR SYSTEM.
9. DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL-MOUNTED AT STANDARD HEIGHT.
10. 72" TALL MIRRORS MOUNTED TO WALL. SET BOTTOM OF MIRRORS AT 24" AFF. COORDINATE WITH POWER AND DATA.
11. MOBILE GEAR GRID LOCKERS, 24" WIDE
12. WALL-MOUNTED GEAR GRID LOCKERS, 24" WIDE
13. WASHER EXTRACTOR PER FF&E SCHEDULE, INSTALL ON CONCRETE PAD PER MANUFACTURER'S INSTRUCTIONS. BASIS OF DESIGN IS: UNIMAC 30lb MODEL: UN-UCT030NND-FY
14. DRYING CABINET PER FF&E SCHEDULE. BASIS OF DESIGN IS: CIRCUL-AIR-CORP MODEL: D613
15. TWO COMPARTMENT STAINLESS STEEL SINK WITH DRAINBOARDS AT EACH SIDE, SPRAY FAUCET, WITH FOOT PEDAL CONTROLS. REFER TO PLUMBING.
16. 36"X36" MOP SINK BASIN WITH SPRAY NOZZLE. INCLUDE MOP HOLDERS AND SS SHELF ON WALL ABOVE. FRP PANELS TO 60" AFF ON ADJACENT WALLS
17. SHOP AIR COMPRESSOR PER FF&E SCHEDULE. BASIS OF DESIGN IS: F-S CURTIS MODEL: FWL15 C3192 S-WLLXX
18. SCBA FILL STATION PER FF&E SCHEDULE. BASIS OF DESIGN IS: BAUER UNICUS 4S
19. FITNESS EQUIPMENT IN GYM, NOT SHOWN. REFER TO FF&E SCHEDULE.
20. WASHER AND DRYER APPLIANCES, PER FF&E SCHEDULE
21. 12"X12"36" HIGH LOCKERS, REFER TO FF&E SCHEDULE
22. SPLIT-FACE CMU SITE WALL AROUND FITNESS PATIO
23. WASHER AND DRYER APPLIANCES, PER FF&E SCHEDULE. INSTALL ON 4" CONCRETE EQUIPMENT PAD WITH STORAGE DRAWER PEDESTALS.
24. WATER HOSE REEL MOUNTED TO WALL. REFER TO PLUMBING FOR WATER CONNECTIONS
25. SHOP WORKBENCH, REFER TO FF&E SCHEDULE.
26. SIGNAGE ON DOOR TO INDICATE "FIRE SPRINKLER RISER ROOM"
27. FIRE DEPARTMENT CONNECTION LOCATION. RE: FIRE PROTECTION DRAWINGS
28. DOWNSPOUT
29. GROOVES IN CONCRETE SLAB FOR LADDER SAFETY
30. FIRE EXTINGUISHER CABINET. SURFACE-MOUNTED AT CMU WALLS & RECESSED AT STUD WALLS.
31. ALIGN EDGE OF WALLS

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO	DESCRIPTION	DATE
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DATE ISSUED: 11.21.2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
FIRST FLOOR PLAN - FIRE STATION

SHEET ID:
A-102

PROJECT STATUS:
Construction Documents

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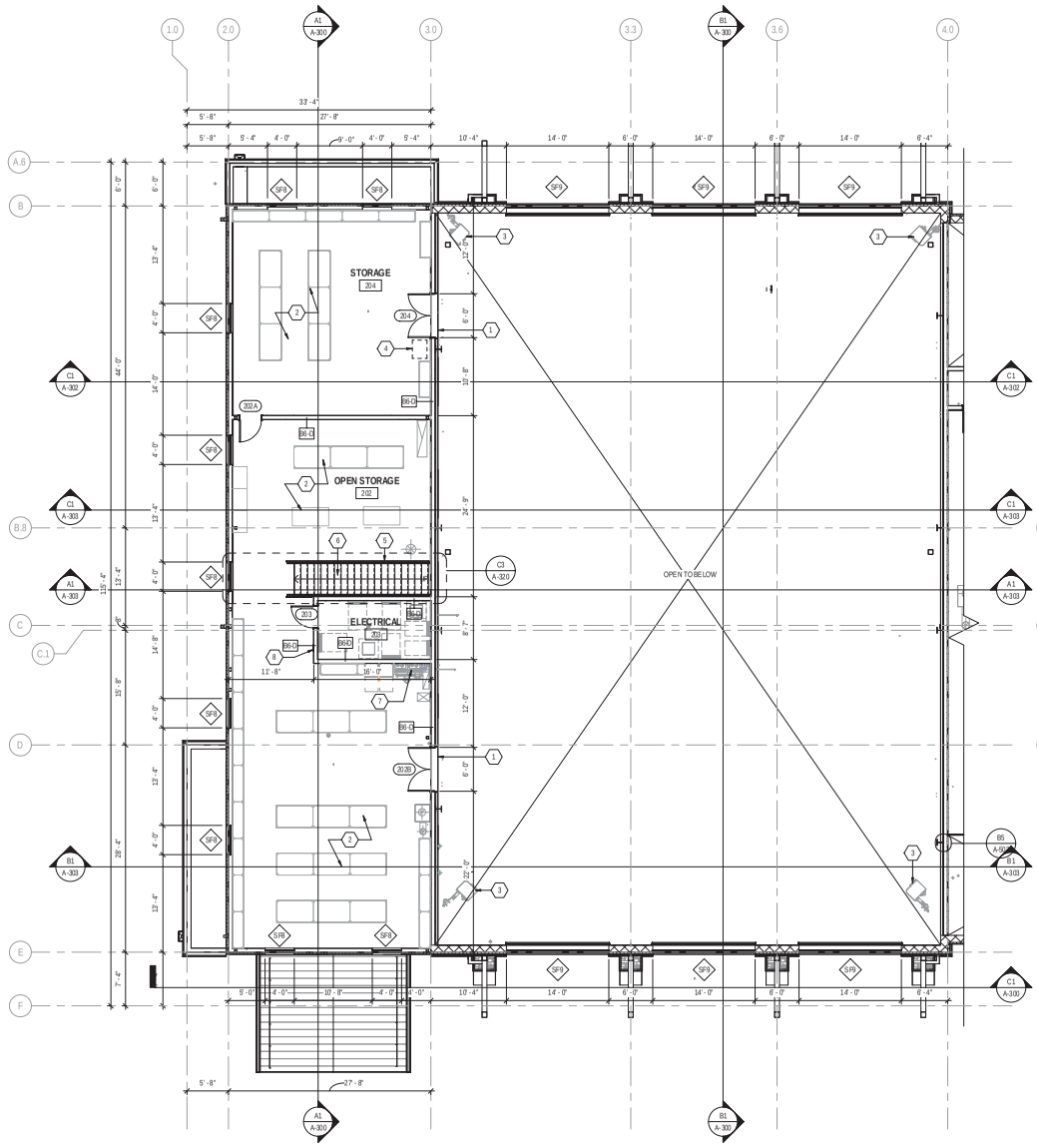
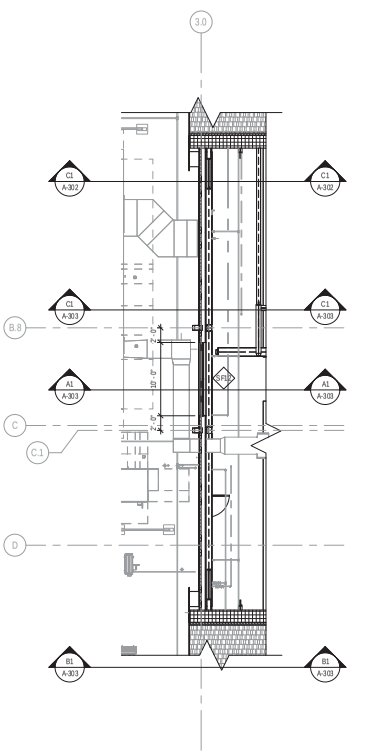


A1 SECOND FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"



A4 A-103 LOGISTICS CLERESTORY - PLAN

SCALE: 1/8" = 1'-0"

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GENERAL FLOOR PLAN NOTES

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7. IF DOORS ARE NOT SPECIFICALLY LOCATED OR DIMENSIONED ON THE PLANS, PROVIDE A HINGE SIDE DIMENSION OF 4" FOR ADJACENT PERPENDICULAR WALL.

FLOOR PLAN KEYNOTES

1 H.M. DOOR OPEN TO APP BAYS BELOW, FOR LIFTING PALLETS TO MEZZANINE FLOOR LEVEL. PROVIDE SAFETY GATE AT OPENING.
2 STORAGE SHELVING AND CABINETS, REFER TO FF&E SCHEDULE
3 UNIT HEATER S/N APPARATUS BAYS, RE: MECHANICAL
4 ROOF LADDER MOUNTED TO WALL WITH ACCESS HATCH ABOVE
5 STEEL GUARDRAIL WITH WELDED WIRE MESH INFILL PANELS
6 STEEL PAN STAIRS WITH CONCRETE TREADS
7 WATER HEATER & BOILER, RE: MECHANICAL AND PLUMBING
8 FIRE EXTINGUISHER CABINET. SURFACE-MOUNTED AT CMU WALLS & RECESSED AT STUD WALLS

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KEY PLAN:

REVISIONS

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DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
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SHEET TITLE:
SECOND FLOOR PLAN - LOGISTICS

SHEET ID:
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PROJECT STATUS:
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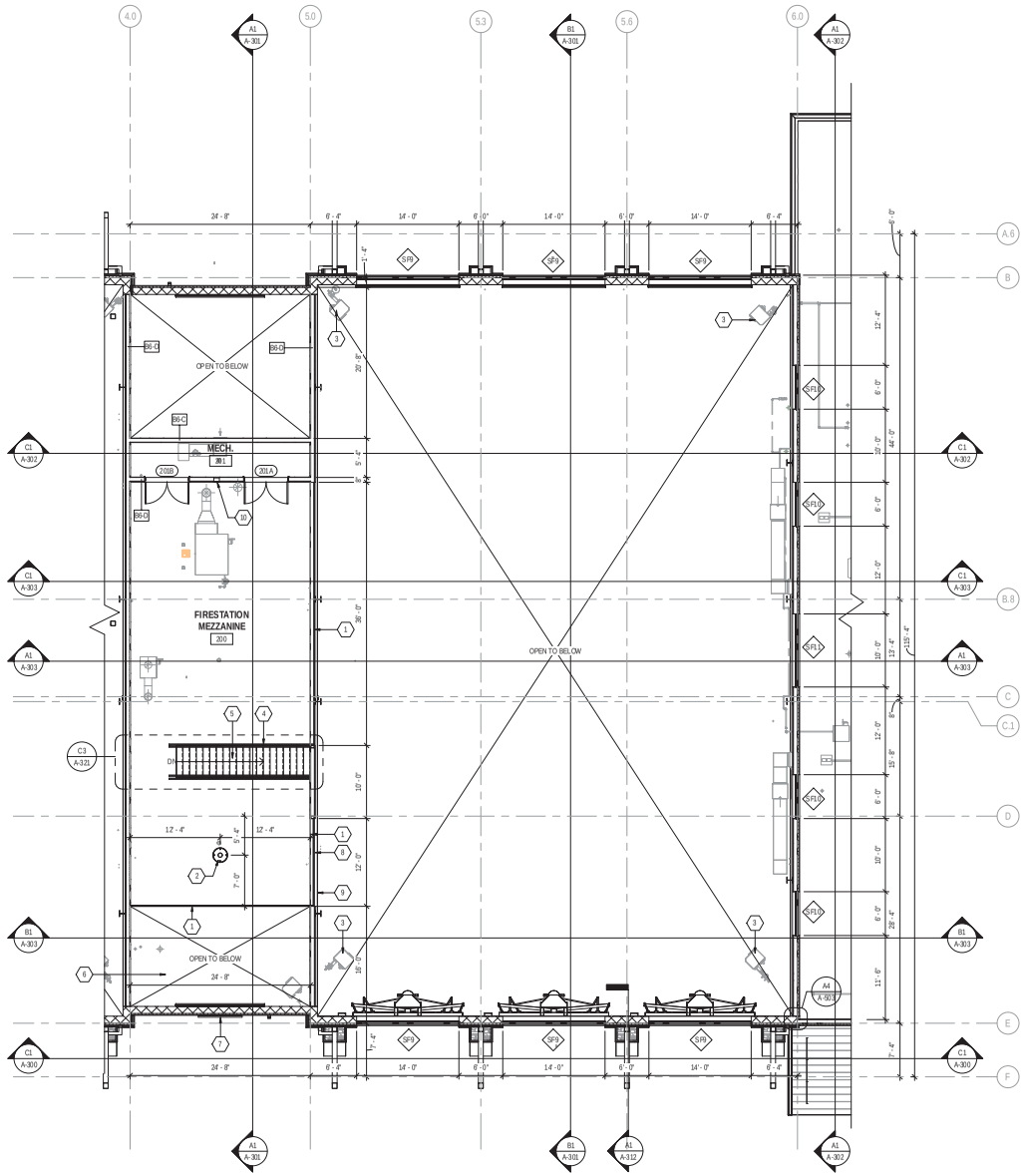

PN

A1 SECOND FLOOR PLAN - FIRE STATION

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7. IF DOORS ARE NOT SPECIFICALLY LOCATED OR DIMENSIONED ON THE PLANS, PROVIDE A HINGE SIDE DIMENSION OF 4" FOR ADJACENT PERPENDICULAR WALL.

FLOOR PLAN KEYNOTES

1 REMOVABLE RAILS FOR FIRE STATION TRAINING
2 24" DIA. MANHOLE THROUGH MEZZANINE FLOOR. RE: STRUCTURAL FOR FRAMING BENEATH
3 UNIT HEATERS IN APPARATUS BAYS. RE: MECHANICAL
4 STEEL GUARDRAILS WITH WELDED WIRE MESH INFILL PANELS
5 STEEL PAN STAIRS WITH CONCRETE TREADS.
6 TOP OF WATER ENTRY ROOM ENCLOSURE BELOW
7 CASTLE ROCK FIRE DEPARTMENT LOGO SIGNAGE. RE: ELEVATIONS
8 TUBE STEEL FRAME WITH TABS TO SECURE TEMPORARY WOOD WALLS FOR TRAINING. TRAINING WALL WILL BE PROVIDED BY OWNER.
9 D-BOLT ANCHORS AT TOP OF OPENING ON BOTH SIDES OF WALL.
10 FIRE EXTINGUISHER CABINET. SURFACE-MOUNTED AT CMU WALLS & RECESSED AT STUD WALLS

8 0 8 16

SCALE: 1/8" = 1'-0"

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SEAL:

SHEET TITLE:
SECOND FLOOR PLAN - FIRE STATION

SHEET ID:
A-104

PROJECT STATUS:
Construction Documents

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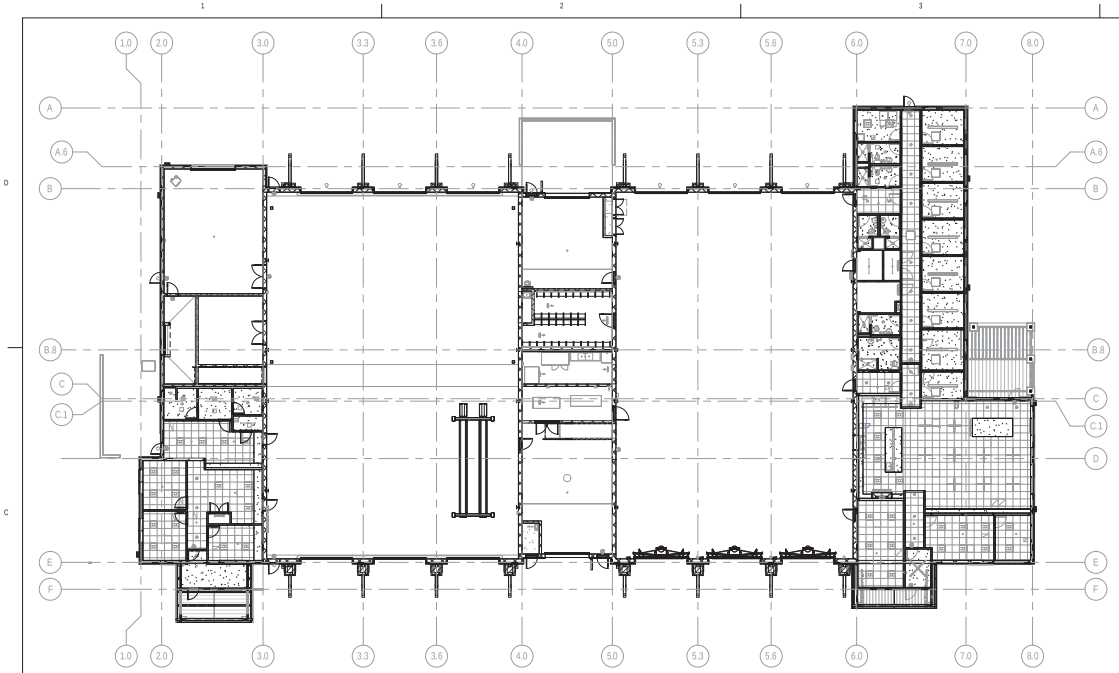
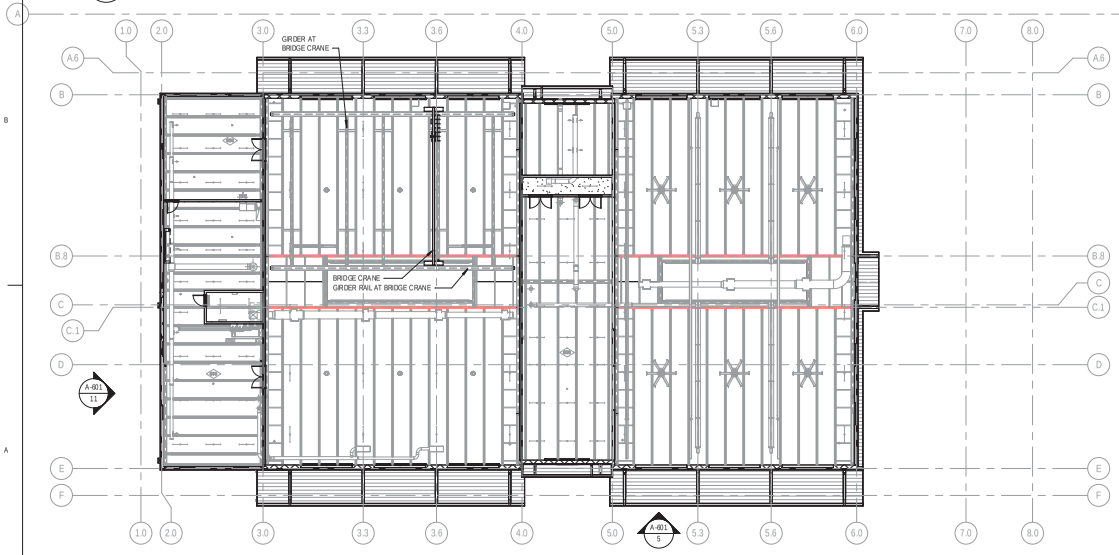


B1 1ST FLOOR REFLECTED CEILING PLAN

SCALE: 1/16" = 1'-0"



A1 SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 1/16" = 1'-0"

GENERAL CEILING PLAN NOTES & LEGEND

1. ALL DIMENSIONS ARE TO FINISH FACE OF PARTITION, U.N.O.
2. ALL CEILING HEIGHTS ARE 9'-0", U.N.O.
3. REFER TO RINISH PLANS, SCHEDULES, AND LEGENDS FOR ADDITIONAL FINISH INFORMATION.
4. SEE OTHER DISCIPLINE DRAWINGS FOR DEVICE LOCATIONS AND ADDITIONAL INFORMATION. INFORM ARCHITECT IN WRITING OF CONFLICTS PRIOR TO START OF WORK IN A ROOM OR AREA.
5. ACOUSTICAL CEILING PANELS
   A. ALL ACT CEILINGS TO BE CENTERED IN ROOM AS SHOWN ON DRAWINGS, U.N.O. COORDINATE WITH ARCHITECT IF ANY CEILING TILE IS LESS THAN 2".
   B. ALL CEILING MOUNTED DEVICES AND SPRINKLER HEADS SHALL BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O.
   C. REPLACE DAMAGED GRID AND CEILING TILES WITH NEW MATERIAL THAT MATCHES EXISTING CONDITIONS. THESE NEW MATERIALS SHALL MATCH THE EXISTING IN A UNIFORM MANNER FOR COLOR, TEXTURE, PATTERN, ETC. IF UNIFORMITY CANNOT BE ACHIEVED, REPLACE THE ENTIRE CEILING WITHIN THAT SPACE WITH NEW MATERIAL. PROVIDE NEW MATERIAL AS APPROVED BY BOTH OWNER AND ARCHITECT IN WRITING.
6. GYPSUM CEILINGS
   A. ALL GYP SOFFITS TO BE 5/8" TYPE "X" GYP, U.N.O.
   B. HORIZONTAL SURFACES OF SOFFITS SHALL BE PAINTED THE SAME COLOR AS THE VERTICAL SURFACES, UNLESS NOTED OTHERWISE.
   C. PROVIDE 5/8" MOISTURE-RESISTANT GYP FOR CEILINGS AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO RESTROOMS, JANITOR CLOSETS AND KITCHEN AREAS.
7. LIGHT FIXTURES
   A. INSTALL ALL LIGHTING FIXTURES PER MANUFACTURER'S REQUIREMENTS. PROVIDE SUPPORTS AS NECESSARY AT FREE CORNERS OF FIXTURES.
   B. CENTER LIGHT FIXTURES IN THE CEILING TILE, U.N.O.
   C. ALIGN AND EQUALLY SPACE LIGHT FIXTURES THAT ARE IN A SERIES, U.N.O.
8. SPRINKLER HEADS:
   A. PROVIDE FIRE PROTECTION SHOP DRAWINGS FOR ARCHITECT'S REVIEW.
   B. DO NOT PAINT SPRINKLER HEADS AND/OR CONCEALED SPRINKLER HEAD COVERS. VERIFY THAT ANY SPRINKLER HEADS THAT ARE PAINTED ARE REMOVED AND REPLACED WITH NEW ONES OF THE SAME TYPE.

CEILING TYPES LEGEND

	EXP	EXPOSED TO ABOVE
	GWB1	5/8" GWB ON METAL FRAMING
	ACT1	2 x 2 SUSPENDED ACOUSTICAL CEILING TILE SYSTEM

FIXTURE LEGEND

- 2' X 2' EXHAUST AIR GRILLE
- 2' X 2' RETURN AIR GRILLE
- 2' X 2' SUPPLY AIR DIFFUSER
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- DOWNLIGHT EMERGENCY RECESSED CAN LIGHT FIXTURE
- DOWNLIGHT RECESSED CAN LIGHT FIXTURE
- 1' X 4' EMERGENCY PENDANT LIGHT FIXTURE
- 1' X 4' PENDANT LIGHT FIXTURE
- 2' X 2' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 2' X 2' FLUORESCENT LIGHT FIXTURE
- 1' X 4' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 1' X 4' FLUORESCENT LIGHT FIXTURE
- 2' X 4' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 2' X 4' FLUORESCENT LIGHT FIXTURE

0 8' 16' 32'

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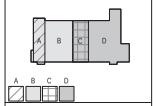
PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:



REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
OVERALL REFLECTED CEILING PLANS

SHEET ID:
A-110

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Construction Documents

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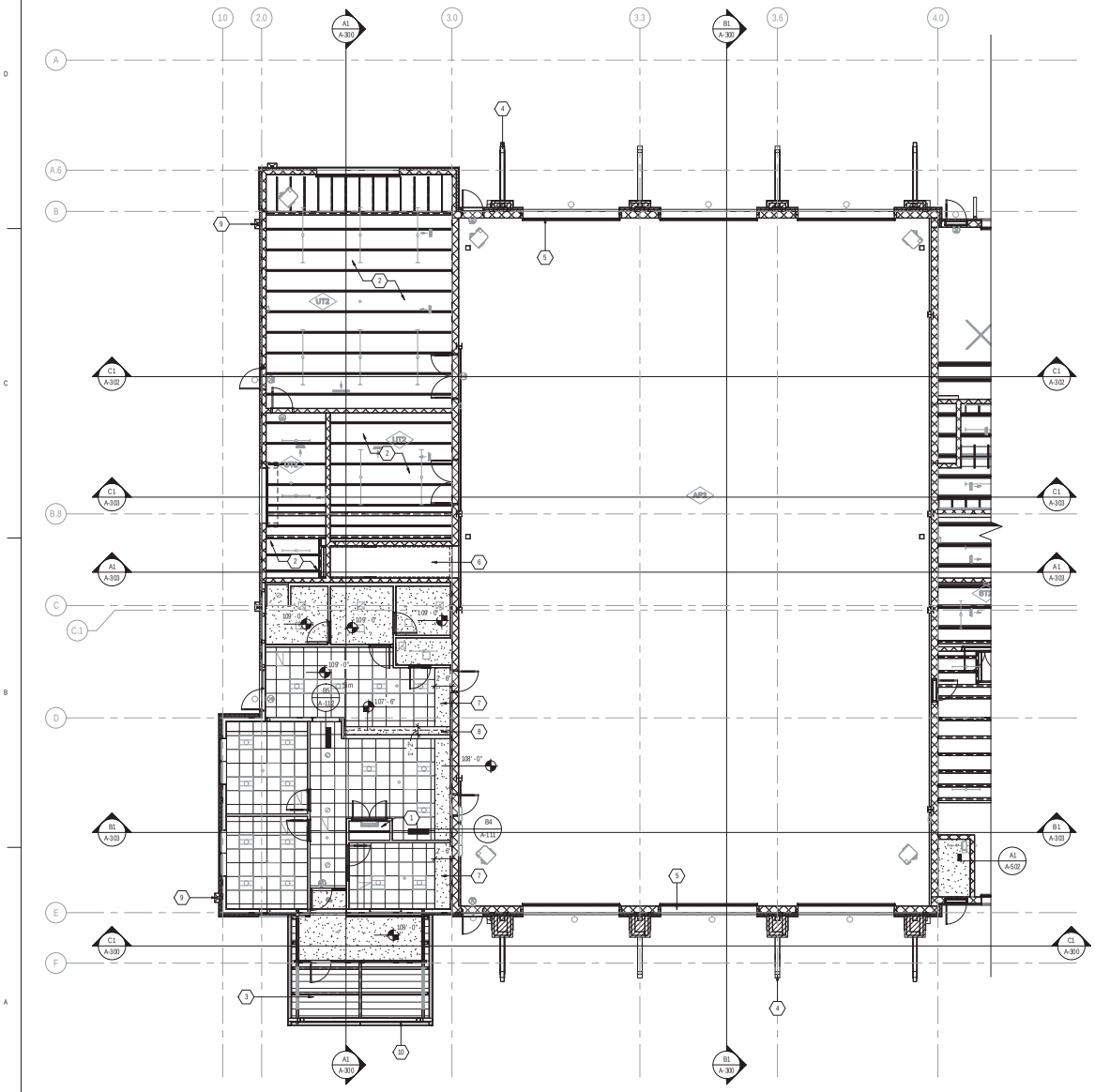
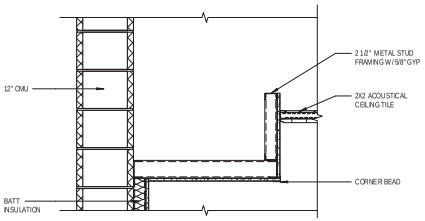


A1 SECTOR PLANS - LOGISTICS REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



B4 SOFFIT IN BREAKROOM
SCALE: 1" = 1'-0"

GENERAL RCP NOTES

1. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
3. ALL GYPSUM CEILINGS TO BE 9'-0" AFF UNLESS NOTED OTHERWISE.
4. ALL ACOUSTICAL TILE CEILINGS TO BE 9'-0" AFF UNLESS NOTED OTHERWISE.
5. SEE FINISH SCHEDULE FOR PAINT COLORS AT ROOMS WITH EXPOSED STRUCTURE AND DUCTWORK.

RCP KEY NOTES

1 EXPOSED METAL FLOOR DECK AND JOISTS ABOVE, PAINTED FINISH.
2 EXPOSED METAL FLOOR DECK AND JOISTS IN OPEN CEILING AREA. PAINT DECKING AND JOISTS, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED DUCTWORK, CONDUIT, AND PIPING TO MATCH PAINTED STRUCTURE.
3 SLOPED METAL SOFFIT PANELS AT ENTRANCE PORCH.
4 PAINTED METAL BRACKETS AT STONE PILASTERS. RE: STRUCTURAL FOR MEMBERS
5 BOTTOM OF MASONRY BOND BEAMS AT OVERHEAD DOORS TO BE PAINTED TO MATCH METAL FLASHING
6 BOTTOM OF STEEL PAN STAIR, EXPOSED IN STORAGE CLOSET. PAINT TO MATCH WALLS.
7 GYPSUM BOARD SOFFIT ON METAL FRAMING, 8'-0" AFF TO BOTTOM OF SOFFIT.
8 GYPSUM BOARD SOFFIT ABOVE BREAK ROOM CABINETS, WITH RECESSED COVE LIGHTING.
9 ROOF LEADER AND COLLECTOR HEAD AT THROUGH-WALL SCUPPER ABOVE. RE: ROOF PLAN FOR LOCATIONS
10 PAINTED METAL "TRUSS" AT PORCH COLUMNS. RE: STRUCTURAL FOR MEMBERS.

RCP LEGEND
GYPSUM BOARD CEILING
2X2 ACOUSTIC CEILING TILE
METAL PANEL SOFFIT

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

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FIRST FLOOR REFLECTED CEILING PLAN - LOGISTICS

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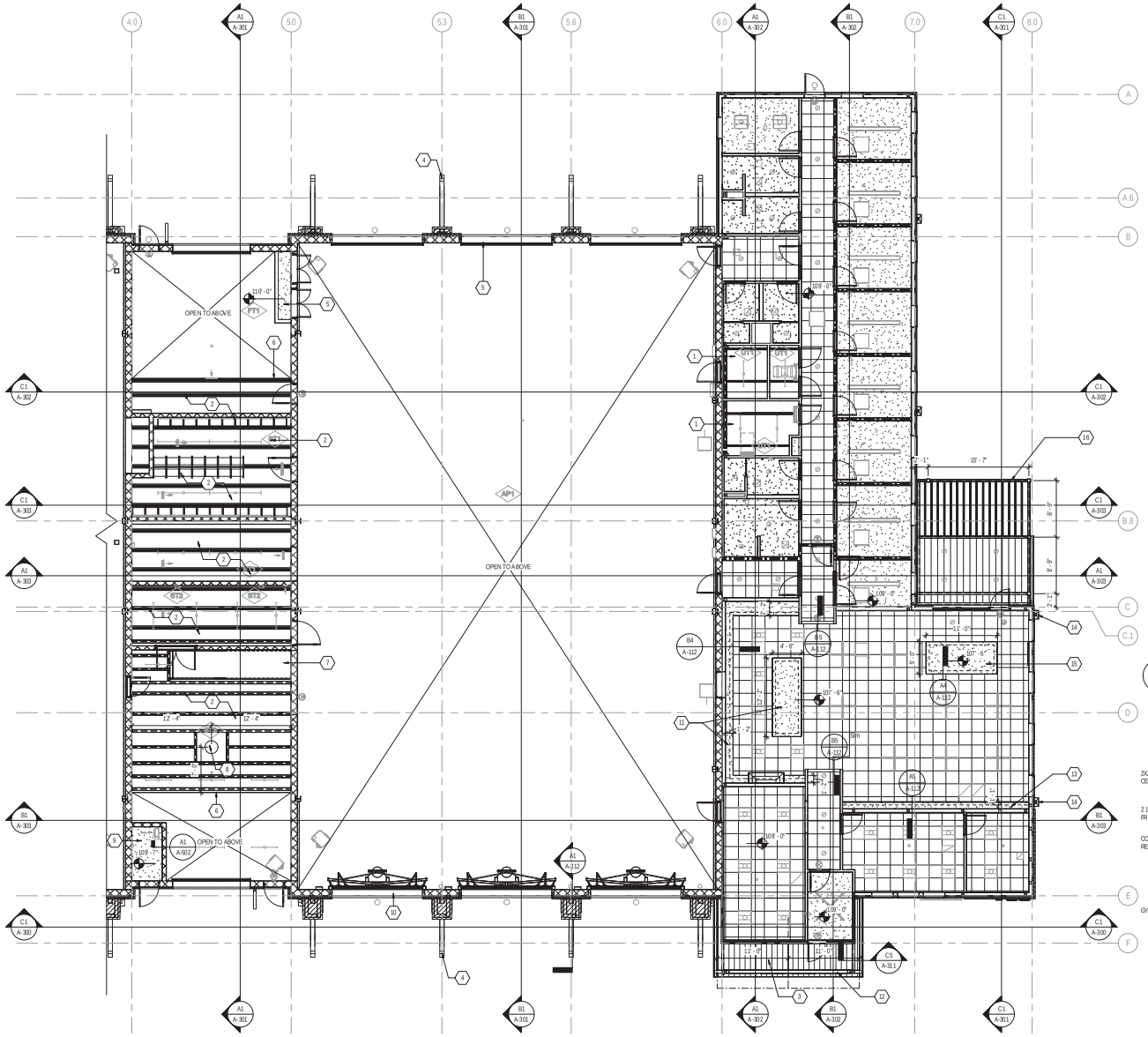

GENERAL RCP NOTES

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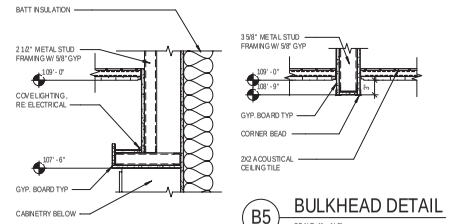
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
3. ALL GYPSUM CEILINGS TO BE 9'-0" AFF UNLESS NOTED OTHERWISE.
4. ALL ACOUSTICAL TILE CEILINGS TO BE 9'-0" AFF UNLESS NOTED OTHERWISE.
5. SEE FINISH SCHEDULE FOR PAINT COLORS AT ROOMS WITH EXPOSED STRUCTURE AND DUCTWORK.

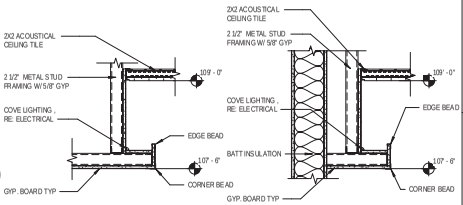
RCP KEY NOTES

1. EXPOSED METAL ROOF DECK AND JOISTS ABOVE, PAINTED FINISH.
2. EXPOSED METAL FLOOR DECK AND JOISTS IN OPEN CEILING AREA. PAINT DECKING AND JOISTS. UNLESS OTHERWISE NOTED, PAINT ALL EXPOSED DUCTWORK, CONDUIT, AND PIPING TO MATCH PAINTED STRUCTURE.
3. SLOPED METAL SOFFIT PANELS AT ENTRANCE PORCH.
4. PAINTED METAL BRACKETS AT STONE PILASTERS, R.E. STRUCTURAL FOR MEMBERS.
5. GYPSUM BOARD CEILING ON METAL FRAMING AT TOP OF ELECTRICAL CLOSET. TOP OF CEILING TO HAVE 3/4" TREATED PLYWOOD SHEATHING.
6. EDGE OF MEZZANINE FLOOR ABOVE.
7. BOTTOM OF STEEL PAN STAIR, EXPOSED IN GARAGE. PAINT TO MATCH H.M. DOORS & FRAMES.
8. MANHOLE IN FLOOR OF MEZZANINE ABOVE. COORDINATE LOCATION S OF LIGHTS, PIPING, FIRE SPRINKLERS, AND CONDUIT TO AVOID MANHOLE OPENING.
9. GYPSUM BOARD CEILING ON METAL FRAMING AT TOP OF WATER ENTRY ROOM. TOP OF CEILING TO HAVE 3/4" TREATED PLYWOOD SHEATHING.
10. BOTTOM OF MASONRY BOND BEAMS AT OVERHEAD DOORS TO BE PAINTED TO MATCH METAL FLASHING.
11. GYPSUM BOARD SOFFIT ABOVE KITCHEN CABINETS AND ISLAND, WITH RECESSED COVE LIGHTING.
12. PAINTED METAL "TRUSS" AT PORCH COLUMNS, R.E. STRUCTURAL FOR MEMBERS
13. GYPSUM BOARD SOFFIT ABOVE TV WALL, WITH RECESSED COVE LIGHTING.
14. ROOF LEADER AND COLLECTOR HEAD AT THROUGH WALL SCUPPER ABOVE. RE: ROOF PLAN FOR LOCATIONS.
15. GYPSUM BOARD SOFFIT ABOVE DINING TABLE, WITH RECESSED COVE LIGHTING.
16. STEEL PERGOLA STRUCTURE AT DINING PATIO.



B4 SOFFIT ABOVE CABS
SCALE: 1" = 1'-0"

B5 BULKHEAD DETAIL
SCALE: 1" = 1'-0"



A4 ISLAND SOFFIT
SCALE: 1" = 1'-0"

A5 DAYROOM SOFFIT
SCALE: 1" = 1'-0"

RCP LEGEND
- GYPSUM BOARD CEILING
- 2X2 ACOUSTIC CEILING TILE
- METAL PANEL SOFFIT

SCALE: 1/8" = 1'-0"

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CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

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DESIGNED BY:	Designer
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FIRST FLOOR REFLECTED CEILING PLAN - FIRE STATION

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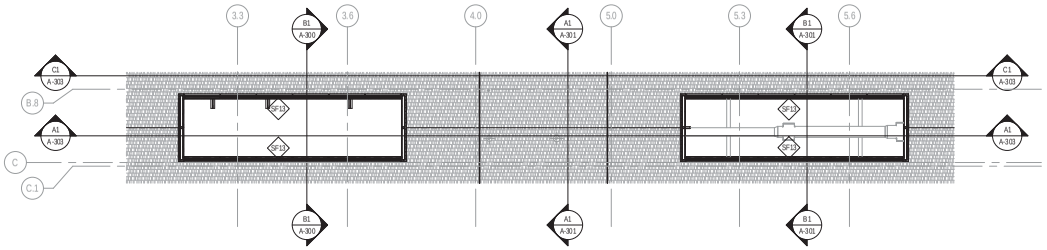
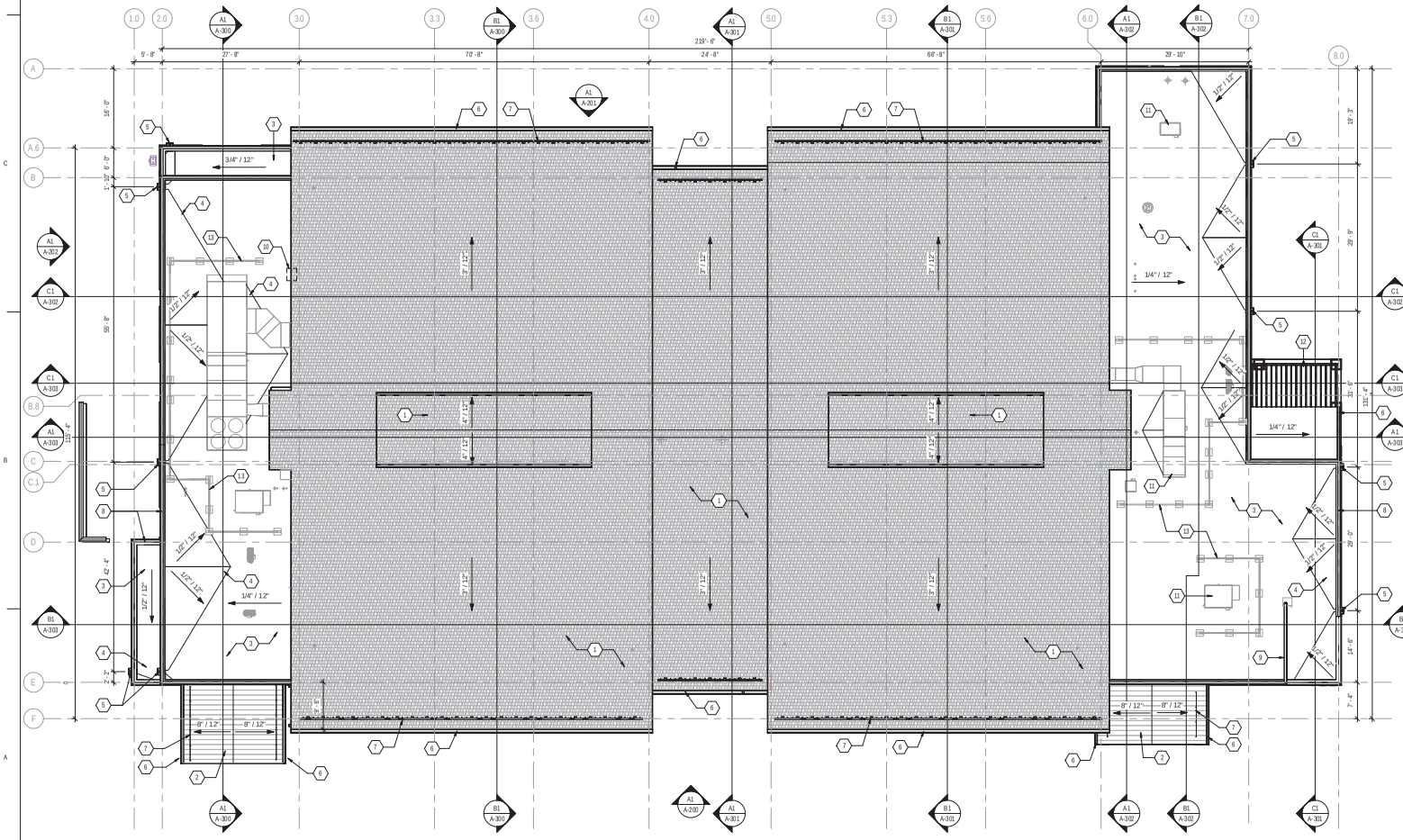


D2 APPRATUS BAY ROOF CLERESTORY - PLAN

SCALE: 3/32" = 1'-0"



A1 ROOF PLAN

SCALE: 3/32" = 1'-0"

GENERAL ROOF NOTES

1. ALL ROOF PENETRATIONS REQUIRED FOR INSTALLATION OF MECHANICAL UNITS, EQUIPMENT CURBS, VENTS, ETC. MUST BE DONE PER MANUFACTURER'S RECOMMENDATIONS TO ENSURE ALL WARRANTIES ARE MAINTAINED. PROVIDE FLASHING, COUNTERFLASHING, SEALANT, ETC. AS REQUIRED TO PROVIDE WATERPROOF CONDITION, TYPICAL AT ALL ROOF PENETRATIONS.
2. INSTALL ICE & WATER SHIELD MEMBRANE UNDER SHINGLE ROOFING AT ALL EAVES, RIDGES, VALLEYS, AND CHANGES IN ROOF PLANE.
3. INSTALL ICE & WATER SHIELD MEMBRANE UNDER ALL STANDING SEAM METAL ROOFING.
4. PROVIDE MANUFACTURER'S INSULATED ROOF CURBS AT MECHANICAL UNITS.
5. PROVIDE WALK PADS TO ALL ROOF TOP EQUIPMENT REQUIRING MAINTENANCE ACCESS.

ROOF KEYNOTES

1. COMPOSITE ASPHALT SHINGLE ROOFING SYSTEM WITH CLASS 4 HAIL RESISTANCE ON SHEATHING OVER CONTINUOUS INSULATION BOARD
2. STANDING SEAM METAL ROOFING SYSTEM ON CONTINUOUS INSULATION BOARD
3. FULLY-ADHERED TPO ROOFING SYSTEM ON COVER BOARD OVER CONTINUOUS ROOF INSULATION
4. TPO ROOF MEMBRANE CRICKET SON SLOPED INSULATION BOARD
5. THROUGH-WALL ROOF SCUPPER WITH DROPPED CONDUCTOR HEAD AND PREFINISHED METAL OPEN-HEAD DOWNSPOUT
6. PREFINISHED METAL GUTTER AND DOWNSPOUT
7. SNOW GUARDS ON ROOF EDGES. PROVIDE TYPE APPROPRIATE FOR ROOF ASSEMBLIES.
8. PREFINISHED METAL PARAPET CAP AT PARAPET WALLS, TYPICAL
9. PARAPET WALL FRAMED ABOVE ROOF; PROVIDE 12" GAP FOR WATER BELOW
10. ROOF ACCESS HATCH
11. ROOFTOP MECHANICAL EQUIPMENT, R.E. MECHANICAL PLANS
12. STEEL PERGOLA STRUCTURE AT DINING PATIO.

ROOF DRAIN SIZE CALCULATIONS

GPM = R x A x 0.0104

Where R is rainfall rate and A is roof area

TOTAL RAINFALL GPM	ROOF DRAIN CAPACITY
Shingle Roof at Logistics: 4690..7sf per side,**147 GPM per side.**	10" gutter at 1/8" slope per foot with **472 GPM per side.**
Shingle Roof at Middle of Building: 1339.09sf per side, **42 GPM per side.**	5" gutter at 1/8" slope per foot with **74 GPM capacity**
Shingle Roof over Fire Station: 4443.79sf per side,**138 GPM per side.**	10" gutter at 1/8" slope per foot with **472 GPM per side of roof.**
Shingle Roof at Logistics: 4690..7sf per side,**147 GPM per side of roof.**	10" gutter at 1/8" slope per foot with **472 GPM per side of roof.**
Flat Roof at Fire Station Living Quarters: **4390.88sf, 137 GPM**	3 1/2" x 4" Downspout with **192 GPM capacity (each)**
Flat Roof at Logistics: 2706.91sf, **85 GPM**	3 1/2" x 4" Downspout with **192 GPM capacity (each)**
Flat Roof over shop and uplift: 140.07sf, **4 GPM**	3 1/2" x 4" Downspout with **192 GPM capacity (each)**
Flat Roof over logistics offices: **130.22sf, 4 GPM**	3 1/2" x 4" Downspout with **192 GPM capacity (each)**

FLAT ROOFS:

- Scuppers are sized based on the 2018 IPC section 1106.5 using a 4" roof drain equivalent to get **1.4" x 8" scuppers.**
- The downspouts were sized using the largest GPM flow rate of 137 GPM and 2018 IPC Table 1106.3 to size the downspouts at 3-1/2" x 4". **Each downspout has a capacity of 192 GPM.**

MIDDLE ASPHALT SHINGLE ROOF:

- Downspouts are sized 3-1/2" x 4" per 2018 IPC Table 1106.3
- 5" gutter at 1/8" slope per foot with **74 GPM capacity per 2018** IPC Table 1106.8.

ASPHALT SHINGLE ROOFS AT APPARATUS BAYS:

- Downspouts are sized 5" x 6" with **563 GPM capacity** per 2018 IPC Table 1106.3
- 10" gutter at 1/8" slope per foot with **247 GPM capacity** per 2018 IPC Table 1106.8.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

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REVIEWED BY:	Checker
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DESIGNED BY:	Designer
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SHEET TITLE:
OVERALL ROOF PLAN

SHEET ID:
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PROJECT STATUS:
Construction Documents

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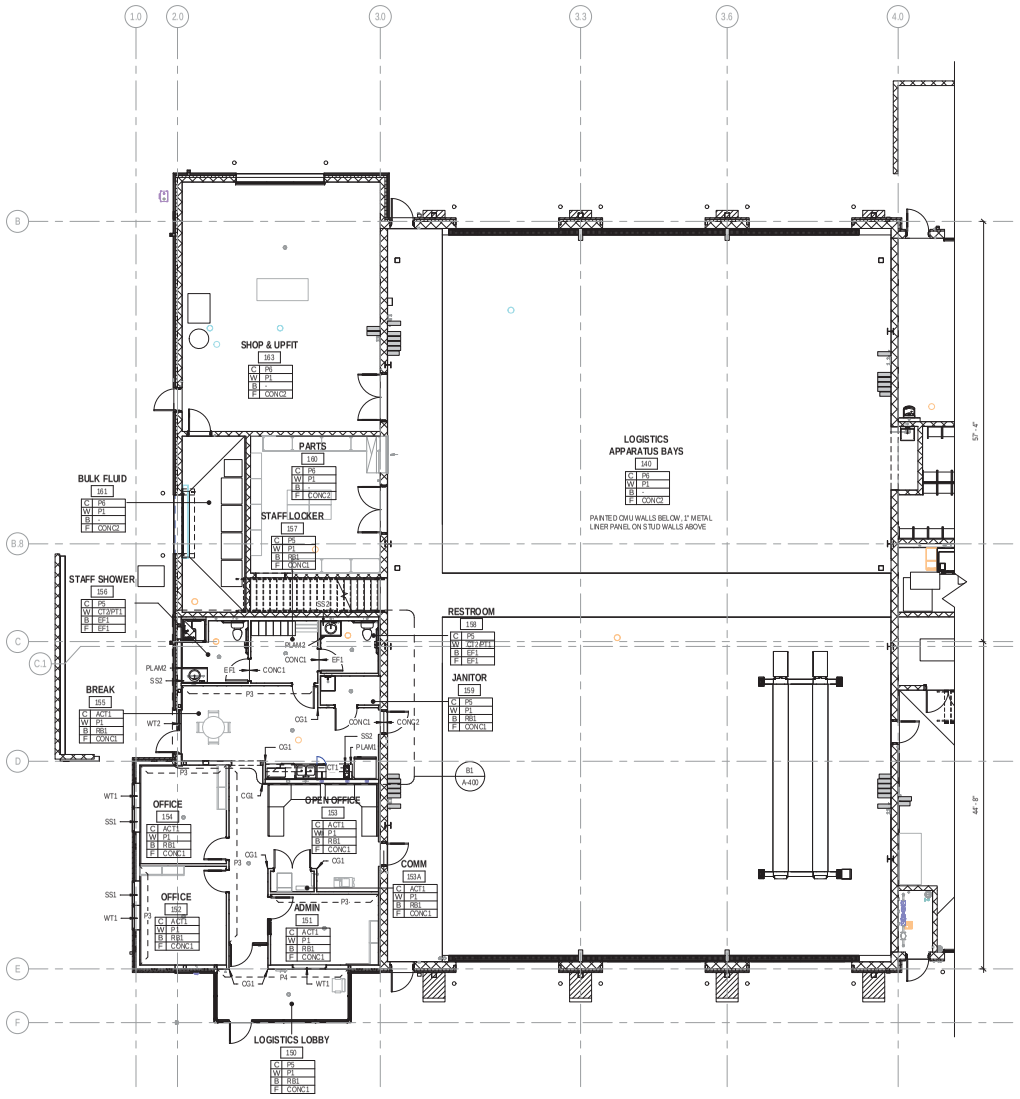

A1 FIRST FLOOR INTERIOR FINISH PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

FINISH PLAN LEGEND & SHEET NOTES

GENERAL SHEET NOTES

1. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY LIGHT SWITCHES. DO NOT INSTALL THERMOSTATS IN THE CENTER OF A WALL.
2. SPRAY PAINT THE SIDE ELECTRICAL PANELS, ACCESS PANELS, AND EXPANSION JOINTS TO MATCH THE ADJACENT WALL COLOR. DOORS SHOULD REMAIN FACTORY FINISH. PANELS PAINTED BY BRUSH ARE NOT ACCEPTABLE.
3. ROOMS IDENTIFIED TO RECEIVE TILE ON WALLS, FLOOR MUST INCLUDE METAL TRANSITIONS ON ALL OUTSIDE CORNERS AS WELL AS THE INTERSECTION BETWEEN THE FLOOR AND WALL TILE FOR A COMPLETE INSTALLATION. SEE ELEVATIONS FOR WALL TILE PATTERN.
4. CORNER GUARDS TO BE PROVIDED ON ALL OUTSIDE DRYWALL CORNERS. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN. COLOR TO BE SELECTED DURING SUBMITTAL PROCESS.
5. ALL EXPOSED CEILING AND STRUCTURE TO BE PAINTED. THIS INCLUDES ANY MECHANICAL DUCTWORK THAT IS NOT FACTORY FINISH. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
6. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADES UNLESS INDICATED OTHERWISE ON FINISH PLANS.
7. MANUFACTURER, STOCK NUMBER AND SALIENT PRODUCT CHARACTERISTICS ARE LISTED FOR REFERENCE AND COLOR IDENTIFICATION PURPOSES ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF MATCHING COLORS PROVIDED BY OTHER MANUFACTURERS.

FINISH FLOOR PLAN SYMBOL LEGEND

ROOM NAME
010
CEILING FINISH
WALL FINISH
BASE FINISH
FLOOR FINISH

FINISH MATERIALS LEGEND

ACOUSTICAL CEILING TILE
ACT1 MANUFACTURER: ARMSTRONG
SERIES: ULTIMA TEGULAR
MODEL #: 2081
SIZE: 2-4' X 2-4'
EDGE: SQUARE
NRC: HIGH
GRID: 15/16"
MODEL #:2081
NRC: 0.85
GRID: PRELUDE XL 15/16"

CERAMIC TILE
CT1 MANUFACTURER: DALTILE
SERIES: MYTHOLOGY
COLOR: OLYMPUS - MY91
THICKNESS: 1/4"
SIZE: 2" X 5"
GROUT SIZE: 1/8"
FINISH: GLOSSY
LOCATION: BACKSPLASH AS NOTED

CT2 MANUFACTURER: DALTILE
SERIES: PORTFOLIO
COLOR: ICE - P701
THICKNESS: 3/8"
SIZE: 1'2" X 24"
GROUT SIZE: 1/8"
FINISH: MATTE
LOCATION: BACKSPLASH AS NOTED & WALL TILE AS NOTED

CORNER GUARDS
CG1 MANUFACTURER: C-S GROUP
SERIES: CO SERIES
MATERIAL: STAINLESS STEEL
SIZE: 2" LEGS
HEIGHT: 7'-4" AFF FROM TOP OF WALL BASE
COLOR: TBD DURING SUBMITTAL

COUNTERTOPS
ST1 STAINLESS STEEL COUNTERTOPS
FINISH: LONGITUDE BRUSHED
THICKNESS: 9MM
LOCATION: KITCHEN COUNTERTOP

SS1 MANUFACTURER: CAMBRIA
COLOR: DOVESTONE - POLISHED
THICKNESS: 1/2"
LOCATION: COUNTERTOPS & WINDOW SILLS

EPOXY FLOORING
EF1 MANUFACTURER: RESIN WERKS
COLLECTION: EPOXY FLOORING
COLOR: ANCHOR

FRP PANELS
FRP1 MANUFACTURER: MARLITE
STYLE: STANDARD FRP
COLOR: P 100 - WHITE
TEXTURE: PEBBLED SURFACE
SIZE: AS NOTED ON PLANS

GROUT
GR1 MANUFACTURER: MAPEI
SERIES: KERAPOXY CQ
COLOR: ALABASTER - 9001
FINISH: EPOXY GROUT & MORTAR
NOTE: FOR USE WITH KITCHEN / KITCHENETTE BACKSPLASH

LUXURY VINYL TILE FLOORING
LVT1 MANUFACTURER: DALTILE
COLLECTION: HALSTATT - LVT
COLOR: COBBLESTONE - HT42
SIZE: 7 1/4" X 48" PLANK

PAINT
P1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: ALABASTER - SW 7008
FINISH: EGGSHELL
NOTES: GENERAL WALL PAINT

P2 MANUFACTURER: PPG
COLOR: PUMPERNICKEL PPG15-22
FINISH: MATTE
NOTES: METAL DOORS & FRAMES

P3 MANUFACTURER: PPG
COLOR: OLIVE GREEN
PPG11-7
FINISH: EGGSHELL
NOTES: ACCENT PAINT 1

P4 MANUFACTURER: PPG
COLOR: MOUNTAIN PINE
PPG1034-7
FINISH: EGGSHELL
NOTES: ACCENT PAINT 2

P5 MANUFACTURER: SHERWIN WILLIAMS
COLOR: CEILING BRIGHT WHITE - SW 7007
FINISH: FLAT
NOTES: ALL DRYWALL CEILINGS AND SOFFITS

P6 MANUFACTURER: ???
COLOR: ???
FINISH: DRY FALL
NOTES: EXPOSED STRUCTURE CEILINGS

PORCELAIN TILE
PT1 MANUFACTURER: TILEBAR
SERIES: COLOR PLAY
COLOR: GRAY
TYPE: ACCENT BAND
SIZE: 4.5" X 18"
GROUT SIZE: 1/8"
FINISH: GLOSSY
LOCATION: ACCENT BAND IN BATHROOMS

PLASTIC LAMINATE
PLAM1 MANUFACTURER: FORMICA
COLOR: ASHWOOD OAK
NUMBER: 5786 NG
FINISH: MATTE
LOCATION: KITCHEN CABINETRY

PLAM2 MANUFACTURER: FORMICA
COLOR: ASHWOOD BEIGE
NUMBER: 5786 NG
FINISH: MATTE
LOCATION: DORMS / BATHROOM CABINETRY

RUBBER BASE
RB1 MANUFACTURER: JOHNSONITE
MATERIAL: TS RUBBER
TYPE: COVE
HEIGHT: 4"
COLOR: CHARCOAL - 20

RUBBER FLOORING
RF1 MANUFACTURER: TARKETT
COLLECTION: REPLAY
COLOR: MELLOWED - RA1
SIZE: 2-4' X 24'
BASE HEIGHT: 0'-6"

SEALED CONCRETE
CONC1 MANUFACTURER: SOLOMON COLORS
TYPE: INTEGRAL COLOR CONCRETE
COLOR: TERRA COTA - 413

CONC2 TYPE: STANDARD CONCRETE
COLOR: GRAY: NO COLOR ADDED

WINDOW TREATMENT
WT1 MANUFACTURER: MECHO SHADE
COLOR: GRAPHITE
NUMBER: V39
FINISH: BLACKOUT
LOCATION: WINDOWS

WT2 MANUFACTURER: HUNTER DOUGLAS
STYLE: RIVIERA
COMMERCIAL 2" SLATS
COLOR: 974 - PEARL

8 0 8 16
SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
FIRST FLOOR INTERIOR FINISH PLAN - LOGISTICS

SHEET ID:
A-130

PROJECT STATUS:
Construction Documents

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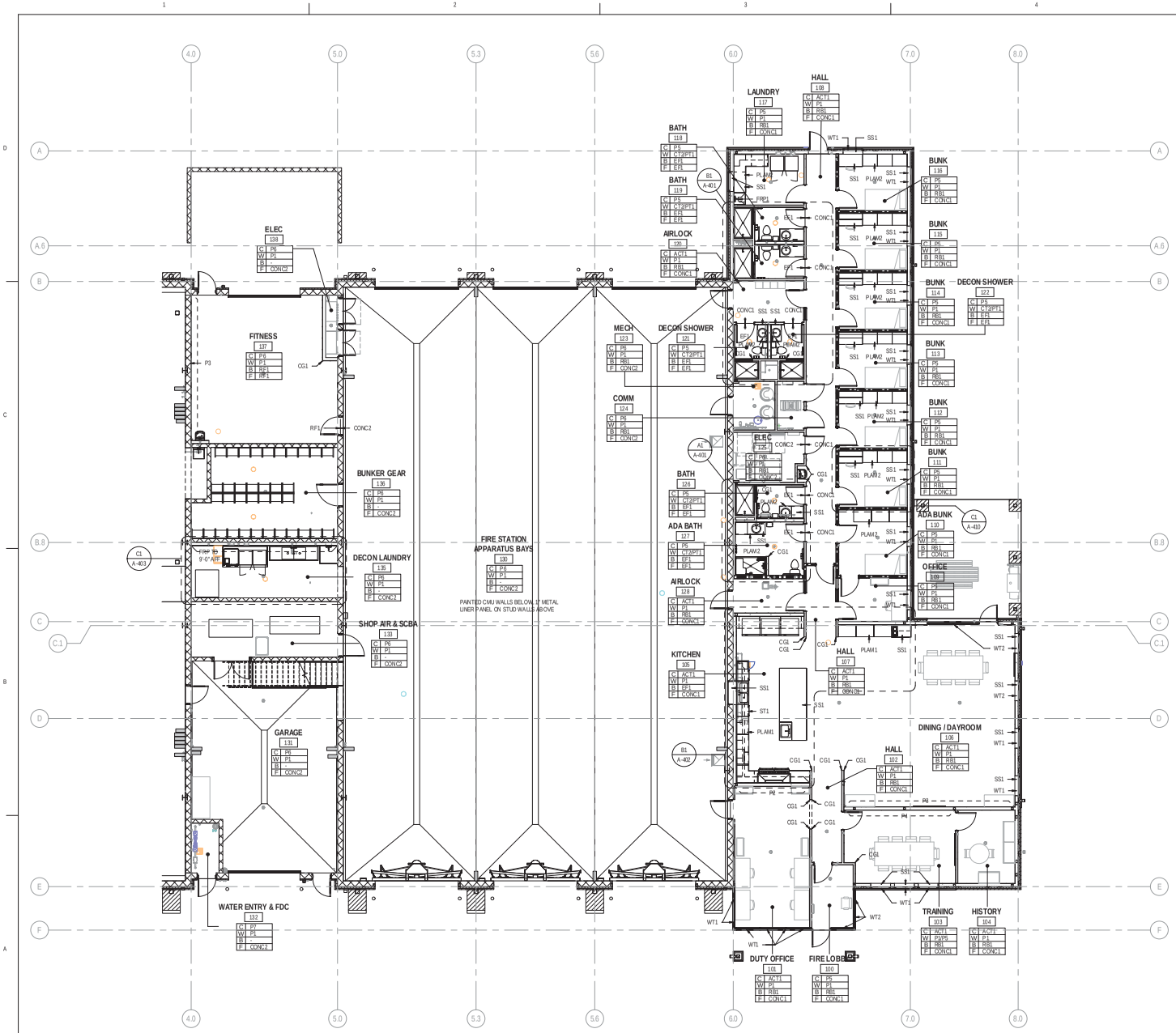

PN

A1 FIRST FLOOR INTERIOR FINISH PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

FINISH PLAN LEGEND & SHEET NOTES

GENERAL SHEET NOTES

1. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY LIGHT SWITCHES. DO NOT INSTALL THERMOSTATS IN THE CENTER OF A WALL.
2. SPRAY PAINT THE SIDE ELECTRICAL PANELS, ACCESS PANELS, AND EXPANSION JOINTS TO MATCH THE ADJACENT WALL COLOR. DOORS SHOULD REMAIN FACTORY FINISH. PANELS PAINTED BY BRUSH ARE NOT ACCEPTABLE.
3. ROOMS IDENTIFIED TO RECEIVE TILE ON WALLS, FLOOR MUST INCLUDE METAL TRANSITIONS ON ALL OUTSIDE CORNERS AS WELL AS THE INTERSECTION BETWEEN THE FLOOR AND WALL TILE FOR A COMPLETE INSTALLATION. SEE ELEVATIONS FOR WALL TILE PATTERN.
4. CORNER GUARDS TO BE PROVIDED ON ALL OUTSIDE DRYWALL CORNERS. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN. COLOR TO BE SELECTED DURING SUBMITTAL PROCESS.
5. ALL EXPOSED CEILING AND STRUCTURE TO BE PAINTED. THIS INCLUDES ANY MECHANICAL DUCT WORK THAT IS NOT FACTORY FINISH. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
6. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADES UNLESS INDICATED OTHERWISE ON FINISH PLANS.
7. MANUFACTURER, STOCK NUMBER AND SALIENT PRODUCT CHARACTERISTICS ARE LISTED FOR REFERENCE AND COLOR IDENTIFICATION PURPOSES ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF MATCHING COLORS PROVIDED BY OTHER MANUFACTURERS.

FINISH FLOOR PLAN SYMBOL LEGEND

ROOM NAME
000
CEILING FINISH
WALL FINISH
BASE FINISH
FLOOR FINISH

FINISH MATERIALS LEGEND

ACOUSTICAL CEILING TILE
ACT1 MANUFACTURER: ARMSTRONG
SERIES: ULTIMA TEGULAR
MODEL #: 2081
SIZE: 2'-4" X 2'-4"
EDGE: SQUARE
NRC: HIGH
GRID: 15/16"
MODEL #: 2081
NRC: 0.85
GRID: PRELUDE XL 15/16"

CERAMIC TILE
CT1 MANUFACTURER: DALTILE
SERIES: MYTHOLOGY
COLOR: OLYMPUS - MY91
THICKNESS: 1/4"
SIZE: 2" X 5"
GROUT SIZE: 1/8"
FINISH: GLOSSY
LOCATION: BACKSPLASH AS NOTED

CT2 MANUFACTURER: DALTILE
SERIES: PORTFOLIO
COLOR: ICE - PF01
THICKNESS: 3/8"
SIZE: 12" X 24"
GROUT SIZE: 1/8"
FINISH: MATTE
LOCATION: BACKSPLASH AS NOTED & WALL TILE AS NOTED

CORNER GUARDS
CG1 MANUFACTURER: C-S GROUP
SERIES: CO SERIES
MATERIAL: STAINLESS STEEL
SIZE: 2" LEGS
HEIGHT: 7'-4" AFF FROM TOP OF WALL BASE
COLOR: TBD DURING SUBMITTAL

COUNTERTOPS
ST1 STAINLESS STEEL COUNTERTOPS
FINISH: LONGITUDE BRUSHED
THICKNESS: 8MM
LOCATION: KITCHEN COUNTERTOP

SS1 MANUFACTURER: CAMBRIA
COLOR: DOVESTONE - POLISHED
THICKNESS: 1/2"
LOCATION: COUNTERTOPS & WINDOW SILLS

EPOXY FLOORING
EF1 MANUFACTURER: RESIN WERKS
COLLECTION: EPOXY FLOORING
COLOR: ANCHOR

FRP PANELS
FRP1 MANUFACTURER: MARLITE
STYLE: STANDARD FRP
COLOR: P 100 - WHITE
TEXTURE: PEBBLED SURFACE
SIZE: AS NOTED ON PLANS

GROUT
GR1 MANUFACTURER: MAPEI
SERIES: KERAPOXY CQ
COLOR: ALABASTER - 9001
FINISH: EPOXY GROUT & MORTAR
NOTE: FOR USE WITH KITCHEN / KITCHENETTE BACKSPLASH

LUXURY VINYL TILE FLOORING
LVT1 MANUFACTURER: DALTILE
COLLECTION: HALSTATT - LVT
COLOR: COBBLESTONE - HT42
SIZE: 7 1/4" X 48" PLANK

PAINT
P1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: ALABASTER - SW 7008
FINISH: EGGSHELL
NOTES: GENERAL WALL PAINT

P2 MANUFACTURER: PPG
COLOR: PUMPERNICKEL PPG15-22
FINISH: MATTE
NOTES: METAL DOORS & FRAMES

P3 MANUFACTURER: PPG
COLOR: OLIVE GREEN
PPG11-7
FINISH: EGGSHELL
NOTES: ACCENT PAINT 1

P4 MANUFACTURER: PPG
COLOR: MOUNTAIN PINE
PPG1034-7
FINISH: EGGSHELL
NOTES: ACCENT PAINT 2

P5 MANUFACTURER: SHERWIN WILLIAMS
COLOR: CEILING BRIGHT WHITE - SW 7007
FINISH: FLAT
NOTES: ALL DRYWALL CEILINGS AND SOFFITS

P6 MANUFACTURER: ???
COLOR: ???
FINISH: DRY FALL
NOTES: EXPOSED STRUCTURE CEILINGS

PORCELAIN TILE
PT1 MANUFACTURER: TILEBAR
SERIES: COLOR PLAY
COLOR: GRAY
TYPE: ACCENT BAND
SIZE: 4.5" X 18"
GROUT SIZE: 1/8"
FINISH: GLOSSY
LOCATION: ACCENT BAND IN BATHROOMS

PLASTIC LAMINATE
PLAM1 MANUFACTURER: FORMICA
COLOR: ASHWOOD OAK
NUMBER: 5786 NG
FINISH: MATTE
LOCATION: KITCHEN CABINETRY

PLAM2 MANUFACTURER: FORMICA
COLOR: ASHWOOD BEIGE
NUMBER: 5786 NG
FINISH: MATTE
LOCATION: DORMS / BATHROOM CABINETRY

RUBBER BASE
RB1 MANUFACTURER: JOHNSONITE
MATERIAL: TS RUBBER
TYPE: COVE
HEIGHT: 4"
COLOR: CHARCOAL - 20

RUBBER FLOORING
RF1 MANUFACTURER: TARKETT
COLLECTION: REPLAY
COLOR: MELLOWED - RA1
SIZE: 24" X 24"
BASE HEIGHT: 0'-6"

SEALED CONCRETE
CONC1 MANUFACTURER: SOLOMON COLORS
TYPE: INTEGRAL COLOR CONCRETE
COLOR: TERRA COTA - 413

CONC2 TYPE: STANDARD CONCRETE
COLOR: GRAY: NO COLOR ADDED

WINDOW TREATMENT
WT1 MANUFACTURER: MECHO SHADE
COLOR: GRAPHITE
NUMBER: V39
FINISH: BLACKOUT
LOCATION: WINDOWS

WT2 MANUFACTURER: HUNTER DOUGLAS
STYLE: RIVIERA
COLOR/RCAL: 2" SLATS
COLOR: 974 - PEARL

RS&H
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
FIRST FLOOR INTERIOR FINISH PLAN - FIRE STATION

SHEET ID:
A-131

PROJECT STATUS:
Construction Documents

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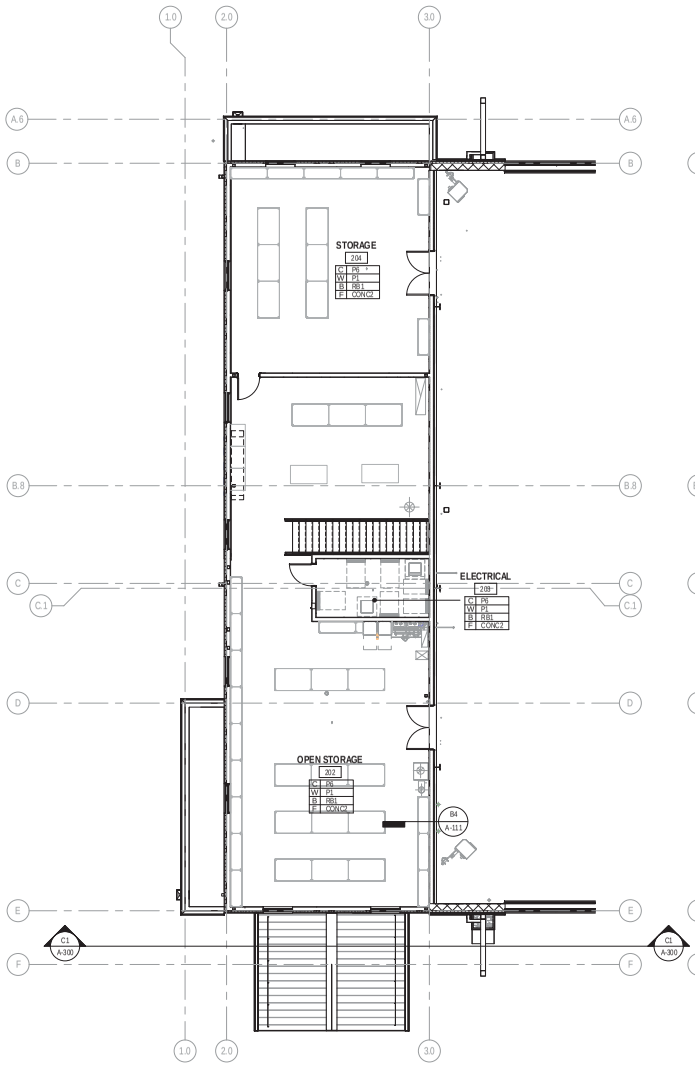
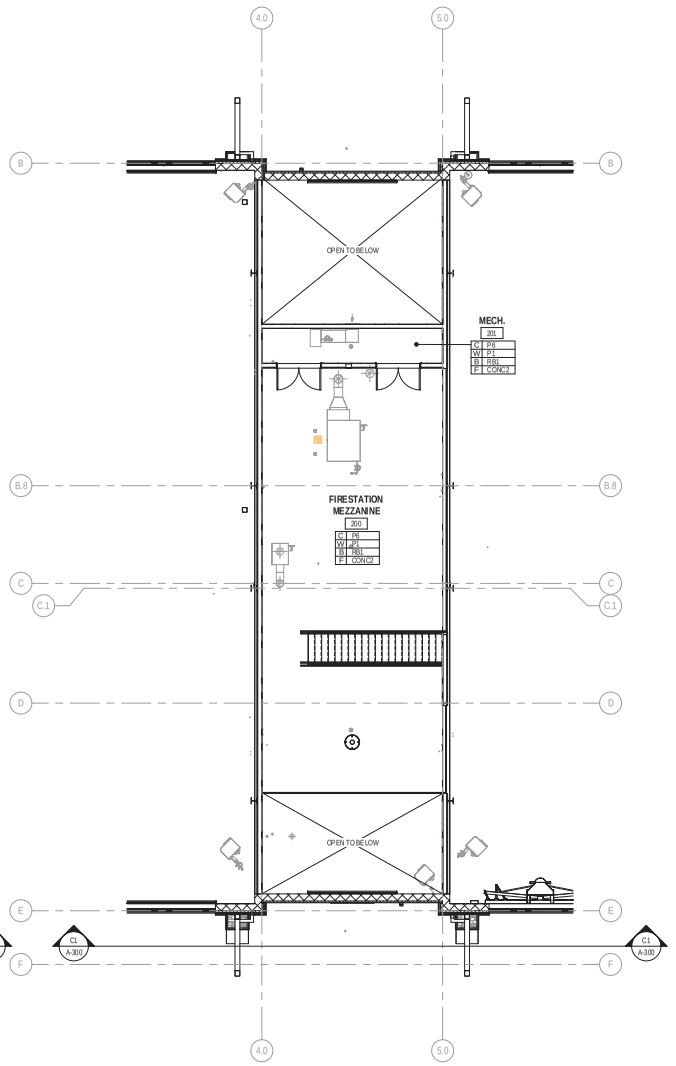


PN

A1 SECOND FLOOR FINISH PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"



PN

A3 SECOND FLOOR FINISH PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

FINISH PLAN LEGEND & SHEET NOTES

GENERAL SHEET NOTES

1. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY LIGHT SWITCHES. DO NOT INSTALL THERMOSTATS IN THE CENTER OF A WALL.
2. SPRAY PAINT THE SIDE ELECTRICAL PANELS, ACCESS PANELS, AND EXPANSION JOINTS TO MATCH THE ADJACENT WALL COLOR. DOORS SHOULD REMAIN FACTORY FINISH. PANELS PAINTED BY BRUSH ARE NOT ACCEPTABLE.
3. ROOMS IDENTIFIED TO RECEIVE TILE ON WALLS, FLOOR MUST INCLUDE METAL TRANSITIONS ON ALL OUTSIDE CORNERS AS WELL AS THE INTERSECTION BETWEEN THE FLOOR AND WALL TILE FOR A COMPLETE INSTALLATION. SEE ELEVATIONS FOR WALL TILE PATTERN.
4. CORNER GUARDS TO BE PROVIDED ON ALL OUTSIDE DRYWALL CORNERS. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN. COLOR TO BE SELECTED DURING SUBMITTAL PROCESS.
5. ALL EXPOSED CEILING AND STRUCTURE TO BE PAINTED. THIS INCLUDES ANY MECHANICAL DUCT WORK THAT IS NOT FACTORY FINISH. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
6. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADES UNLESS INDICATED OTHERWISE ON FINISH PLANS.
7. MANUFACTURER, STOCK NUMBER AND SALIENT PRODUCT CHARACTERISTICS ARE LISTED FOR REFERENCE AND COLOR IDENTIFICATION PURPOSES ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF MATCHING COLORS PROVIDED BY OTHER MANUFACTURERS.

FINISH FLOOR PLAN SYMBOL LEGEND

ROOM NAME
010
CEILING FINISH
WALL FINISH
BASE FINISH
FLOOR FINISH

FINISH MATERIALS LEGEND

ACOUSTICAL CEILING TILE
ACT1 MANUFACTURER: ARMSTRONG
SERIES: ULTIMA TEGULAR
MODEL #: 2081
SIZE: 2'-0" X 2'-0"
EDGE: SQUARE
NRC: HIGH
GRID: 15/16"
MODEL #:2081
NRC: 0.85
GRID: PRELUDE XL 15/16"

CERAMIC TILE
CT1 MANUFACTURER: DALTILE
SERIES: MYTHOLOGY
COLOR: OLYMPUS - MY91
THICKNESS: 1/4"
SIZE: 2" X 5"
GROUT SIZE: 1/8"
FINISH: GLOSSY
LOCATION: BACKSPLASH AS NOTED

CT2 MANUFACTURER: DALTILE
SERIES: PORTFOLIO
COLOR: ICE - P701
THICKNESS: 3/8"
SIZE: 1'2" X 24"
GROUT SIZE: 1/8"
FINISH: MATTE
LOCATION: BACKSPLASH AS NOTED & WALL TILE AS NOTED

CORNER GUARDS
CG1 MANUFACTURER: C-S GROUP
SERIES: CO SERIES
MATERIAL: STAINLESS STEEL
SIZE: 2" LEGS
HEIGHT: 7'-4" AFF FROM TOP OF WALL BASE
COLOR: TBD DURING SUBMITTAL

COUNTERTOPS
ST1 STAINLESS STEEL COUNTERTOPS
FINISH: LONGITUDE BRUSHED
THICKNESS: 9MM
LOCATION: KITCHEN COUNTERTOP

SS1 MANUFACTURER: CAMBRIA
COLOR: DOVESTONE - POLISHED
THICKNESS: 1/2"
LOCATION: COUNTERTOPS & WINDOW SILLS

EPOXY FLOORING
EF1 MANUFACTURER: RESIN WERKS
COLLECTION: EPOXY FLOORING
COLOR: ANCHOR

FRP PANELS
FRP1 MANUFACTURER: MARLITE
STYLE: STANDARD FRP
COLOR: P 100 - WHITE
TEXTURE: PEBBLED SURFACE
SIZE: AS NOTED ON PLANS

GROUT
GR1 MANUFACTURER: MAPEI
SERIES: KERAPOXY CQ
COLOR: ALABASTER - 9001
FINISH: EPOXY GROUT & MORTAR
NOTE: FOR USE WITH KITCHEN / KITCHENETTE BACKSPLASH

LUXURY VINYL TILE FLOORING
LVT1 MANUFACTURER: DALTILE
COLLECTION: HALSTATT - LVT
COLOR: COBBLESTONE - HT42
SIZE: 7 1/4" X 48" PLANK

PAINT
P1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: ALABASTER - SW 7008
FINISH: EGGSHELL
NOTES: GENERAL WALL PAINT

P2 MANUFACTURER: PPG
COLOR: PUMPERNICKEL PPG15-22
FINISH: MATTE
NOTES: METAL DOORS & FRAMES

P3 MANUFACTURER: PPG
COLOR: OLIVE GREEN
PPG11-7
FINISH: EGGSHELL
NOTES: ACCENT PAINT 1

P4 MANUFACTURER: PPG
COLOR: MOUNTAIN PINE
PPG1034-7
FINISH: EGGSHELL
NOTES: ACCENT PAINT 2

P5 MANUFACTURER: SHERWIN WILLIAMS
COLOR: CEILING BRIGHT WHITE - SW 7007
FINISH: FLAT
NOTES: ALL DRYWALL CEILINGS AND SOFFITS

P6 MANUFACTURER: ???
COLOR: ???
FINISH: DRY FALL
NOTES: EXPOSED STRUCTURE CEILINGS

PORCELAIN TILE
PT1 MANUFACTURER: TILEBAR
SERIES: COLOR PLAY
COLOR: GRAY
TYPE: ACCENT BAND
SIZE: 4.5" X 18"
GROUT SIZE: 1/8"
FINISH: GLOSSY
LOCATION: ACCENT BAND IN BATHROOMS

PLASTIC LAMINATE
PLAM1 MANUFACTURER: FORMICA
COLOR: ASHWOOD OAK
NUMBER: 5786 NG
FINISH: MATTE
LOCATION: KITCHEN CABINETRY

PLAM2 MANUFACTURER: FORMICA
COLOR: ASHWOOD BEIGE
NUMBER: 5786 NG
FINISH: MATTE
LOCATION: DORMS / BATHROOM CABINETRY

RUBBER BASE
RB1 MANUFACTURER: JOHNSONITE
MATERIAL: TS RUBBER
TYPE: COVE
HEIGHT: 4"
COLOR: CHARCOAL - 20

RUBBER FLOORING
RF1 MANUFACTURER: TARKETT
COLLECTION: REPLAY
COLOR: MELLOWED - RA1
SIZE: 2'-0" X 24"
BASE HEIGHT: 0'-6"

SEALED CONCRETE
CONC1 MANUFACTURER: SOLOMON COLORS
TYPE: INTEGRAL COLOR CONCRETE
COLOR: TERRA COTA - 413

CONC2 TYPE: STANDARD CONCRETE
COLOR: GRAY: NO COLOR ADDED

WINDOW TREATMENT
WT1 MANUFACTURER: MECHO SHADE
COLOR: GRAPHITE
NUMBER: V39
FINISH: BLACKOUT
LOCATION: WINDOWS

WT2 MANUFACTURER: HUNTER DOUGLAS
STYLE: RIVIERA
COMMERCIAL 2" SLATS
COLOR: 974 - PEARL

8 0 8 16

SCALE: 1/8" = 1'-0"

RS&H
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Colorado Springs, CO 80903
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

A B C D

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
SECOND FLOOR INTERIOR FINISH PLANS

SHEET ID:
A-132

PROJECT STATUS:
Construction Documents

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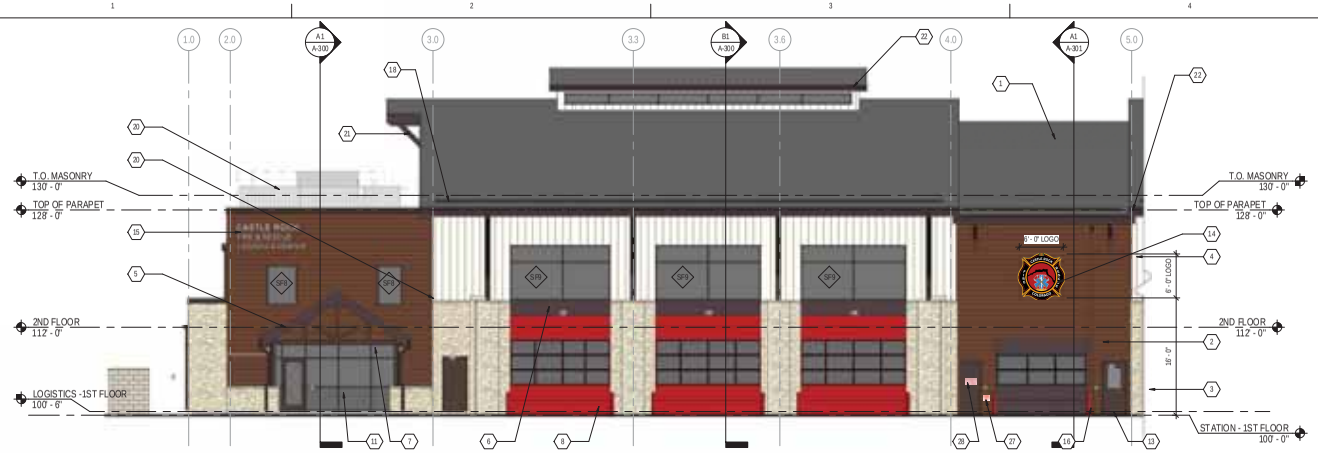

C1 WEST (FRONT) ELEVATION - LOGISTICS SIDE

SCALE: 1/8" = 1'-0"

B1 WEST (FRONT) ELEVATION - FIRE STATION SIDE

SCALE: 1/8" = 1'-0"

A1 WEST (FRONT) ELEVATION

SCALE: 3/32" = 1'-0"

ELEVATION KEYNOTES

1 ASPHALT SHINGLES
2 HORIZONTAL METAL PANEL, WOOD GRAIN WALNUT
3 ADHERED MANUFACTURED STONE VENEER
4 VERTICAL METAL PANEL, 12-INCH PROFILE
5 STANDING SEAM ROOF, DARK BRONZE
6 METAL PANEL, DARK BRONZE
7 STEEL STRUCTURE AND ACCENTS, DARK BRONZE
8 APPARATUS BAY OVERHEAD SECTIONAL DOORS, DEEP RED
9 SPLIT FACE CMU, LIGHT TAN
10 METAL PANEL SHINGLE SIDING, ALMOND
11 ALUMINUM STOREFRONT, DARK BRONZE
12 OPERABLE ALUMINUM WINDOWS, DARK BRONZE
13 H.M. DOORS AND FRAMES, PAINTED DARK BRONZE
14 CASTLE ROCK FIRE RESCUE DEPARTMENT LOGO SIGNAGE
15 DIMENSIONAL LETTER SIGNAGE, LIGHT GRAY COLOR
16 DOWNSPOUT, DARK BRONZE U.N.O.
17 DOWNSPOUTS ALONGSIDE STONE PILASTERS, PAINT TO MATCH STONE
18 SNOW GUARDS AT ROOF PERIMETER
19 APPARATUS BAY FOLIA-FOLD DOORS, DEEP RED
20 PRECAST STONE TRIM AT TOP OF STONE VENEER
21 STEEL BRACKETS, DARK BRONZE
22 GUTTER
23 INSULATED OVERHEAD DOOR WITH GLASS PANELS, DEEP RED
24 METAL PARAPET CAP, DARK BRONZE
25 FLAT ROOF
26 SCUPPER AND DOWNSPOUT
27 FIRE DEPARTMENT CONNECTION (FDC)
28 FIRE SPRINKLER ROOM
29 MECHANICAL SCREEN, MATCH VERTICAL METAL PANEL
30 ROLL-FOLD DOOR, DARK BRONZE
31 CAMPUS STONE LOW PLANTER WALL (REFER TO SHEET L1.0)
32 PAINT EXPOSED PIPING, CONDUIT, AND EQUIPMENT TO MATCH WALL SURFACE COLOR, TYPICAL
33 BACKLIT DIMENSIONAL LETTER SIGNAGE 30" TALL, RED
34 SCREEN WALL AT LOGISTICS PATIO, SPLIT FACE CMU, LIGHT TAN

EXTERIOR MATERIAL LEGEND

ASPHALT SHINGLES
BASIS OF DESIGN: OWENS CORNING, TRUDEFINITION DURATION FLEX (CLASS 4 HAIL RESISTANCE)
COLOR: DRIFTWOOD

VERTICAL METAL WALL PANEL
BASIS OF DESIGN: BERRIDGE
STYLE: HS-12
COLOR: ALMOND

METAL WALL PANEL SHINGLES
BASIS OF DESIGN: BERRIDGE FISH SCALE SHINGLES
COLOR: ALMOND

ADHERED MANUFACTURED STONE VENEER
BASIS OF DESIGN: SUNSET STONE
STYLE & COLOR: 70/30 BLEND OF NATURAL COBBLE AND NATURAL LEDGE STONE

STANDING SEAM ROOF
BASIS OF DESIGN: BERRIDGE CEE-LOCK PANEL
COLOR: DARK BRONZE

HORIZONTAL METAL PANEL
BASIS OF DESIGN: HS-8
COLOR: WOOD GRAIN WALNUT

FOUR-FOLD / OVERHEAD DOORS
COLOR: RED

OVERHEAD DOORS
COLOR: DARK BRONZE

SPLIT-FACE CMU WALL
COLOR: LIGHT TAN

STEEL STRUCTURE AND ACCENTS
COLOR: DARK BRONZE

RS&H
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
A-200

PROJECT STATUS:
Construction Documents

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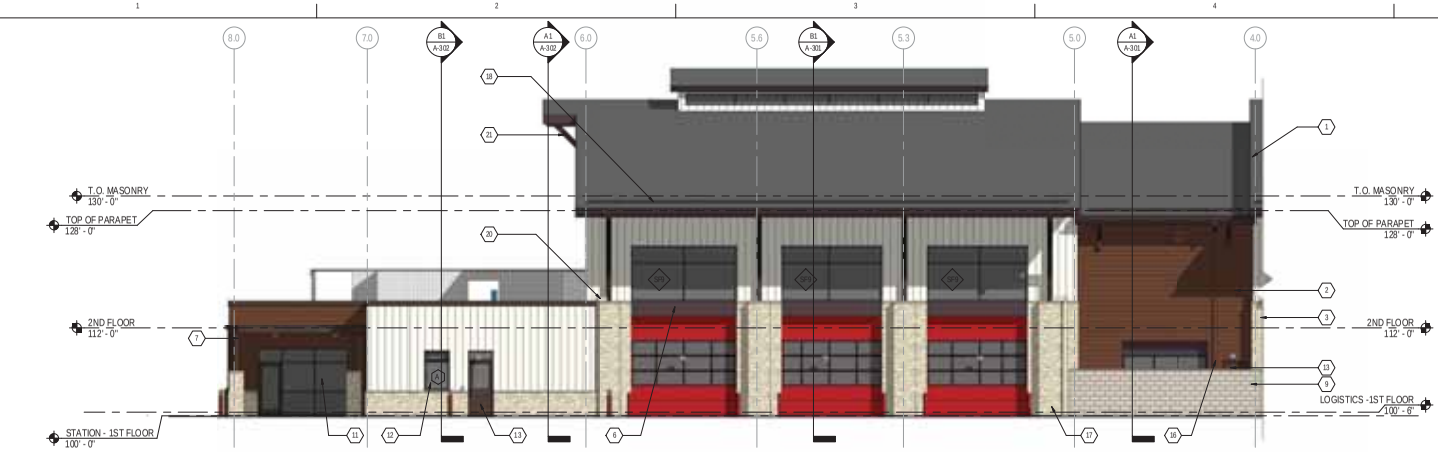
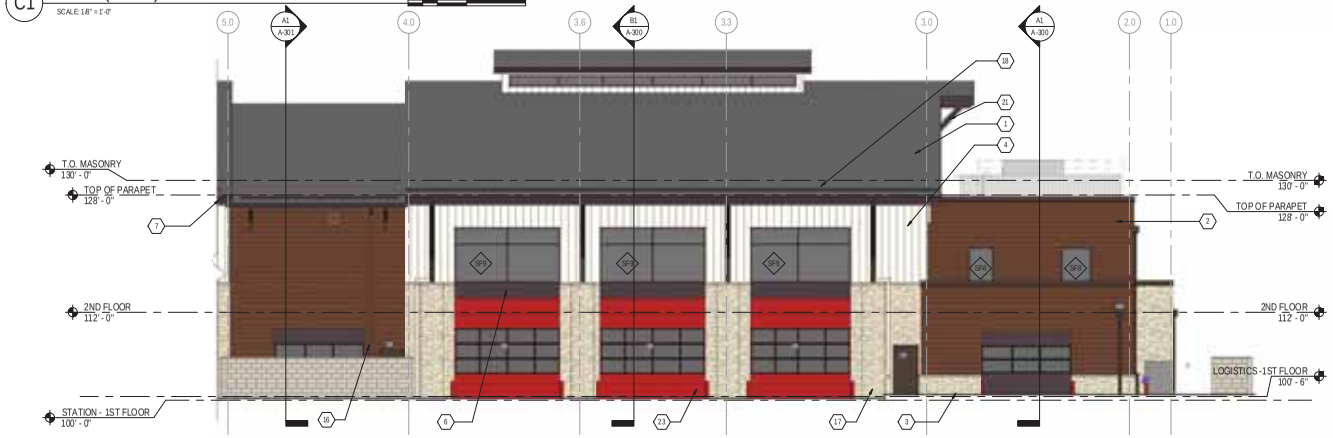


C1 EAST (BACK) ELEVATION - FIRE STATION

SCALE: 1/8" = 1'-0"



B1 EAST (BACK) ELEVATION - LOGISTICS

SCALE: 1/8" = 1'-0"

A1 EAST (BACK) ELEVATION

SCALE: 3/32" = 1'-0"

ELEVATION KEYNOTES

1 ASPHALT SHINGLES
2 HORIZONTAL METAL PANEL, WOOD GRAIN WALNUT
3 ADHERED MANUFACTURED STONE VENEER
4 VERTICAL METAL PANEL, 12-INCH PROFILE
5 STANDING SEAM ROOF, DARK BRONZE
6 METAL PANEL, DARK BRONZE
7 STEEL STRUCTURE AND ACCENTS, DARK BRONZE
8 APPARATUS BAY OVERHEAD SECTIONAL DOORS, DEEP RED
9 SPLIT FACE CMU, LIGHT TAN
10 METAL PANEL SHINGLE SIDING, ALMOND
11 ALUMINUM STOREFRONT, DARK BRONZE
12 OPERABLE ALUMINUM WINDOWS, DARK BRONZE
13 H.M. DOORS AND FRAMES, PAINTED DARK BRONZE
14 CASTLE ROCK FIRE RESCUE DEPARTMENT LOGO SIGNAGE
15 DIMENSIONAL LETTER SIGNAGE, LIGHT GRAY COLOR
16 DOWNSPOUT, DARK BRONZE U.N.O.
17 DOWNSPOUTS ALONGSIDE STONE PILASTERS, PAINT TO MATCH STONE
18 SNOW GUARDS AT ROOF PERIMETER
19 APPARATUS BAY FOUR-FOLD DOORS, DEEP RED
20 PRECAST STONE TRIM AT TOP OF STONE VENEER
21 STEEL BRACKETS, DARK BRONZE
22 GUTTER
23 INSULATED OVERHEAD DOOR WITH GLASS PANELS, DEEP RED
24 METAL PARAPET CAP, DARK BRONZE
25 FLAT ROOF
26 SCUPPER AND DOWNSPOUT
27 FIRE DEPARTMENT CONNECTION (FDC)
28 FIRE SPRINKLER ROOM
29 MECHANICAL SCREEN, MATCH VERTICAL METAL PANEL
30 COILING DOOR, DARK BRONZE
31 CORNERSTONE LAID INTO STONE VENEER, EXACT SIZE T.B.D.
32 PAINT EXPOSED PIPING, CONDUIT, AND EQUIPMENT TO MATCH WALL SURFACE COLOR, TYP.
33 BACKLIT DIMENSIONAL LETTER SIGNAGE 30' TALL, RED
34 SCREEN WALL AT LOGISTICS PATIO, SPLIT FACE CMU, LIGHT TAN

EXTERIOR MATERIAL LEGEND

ASPHALT SHINGLES
BASIS OF DESIGN: OWENS CORNING, TRUDEFINITION DURATION FLEX (CLASS 4 HAIL RESISTANCE)
COLOR: DRIFTWOOD

VERTICAL METAL WALL PANEL
BASIS OF DESIGN: BERRIDGE
STYLE: HS-12
COLOR: ALMOND

METAL WALL PANEL SHINGLES
BASIS OF DESIGN: BERRIDGE FISH SCALE SHINGLES
COLOR: ALMOND

ADHERED MANUFACTURED STONE VENEER
BASIS OF DESIGN: SUNSET STONE
STYLE & COLOR: 70/30 BLEND OF NATURAL COBBLE AND NATURAL LEDGE STONE

STANDING SEAM ROOF
BASIS OF DESIGN: BERRIDGE CEE-LOCK PANEL
COLOR: DARK BRONZE

HORIZONTAL METAL PANEL
BASIS OF DESIGN: HS-8
COLOR: WOOD GRAIN WALNUT

FOUR-FOLD / OVERHEAD DOORS
COLOR: RED

OVERHEAD DOORS
COLOR: DARK BRONZE

SPLIT-FACE CMU WALL
COLOR: LIGHT TAN

STEEL STRUCTURE AND ACCENTS
COLOR: DARK BRONZE

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
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DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
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SEAL:

SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
A-201

PROJECT STATUS:
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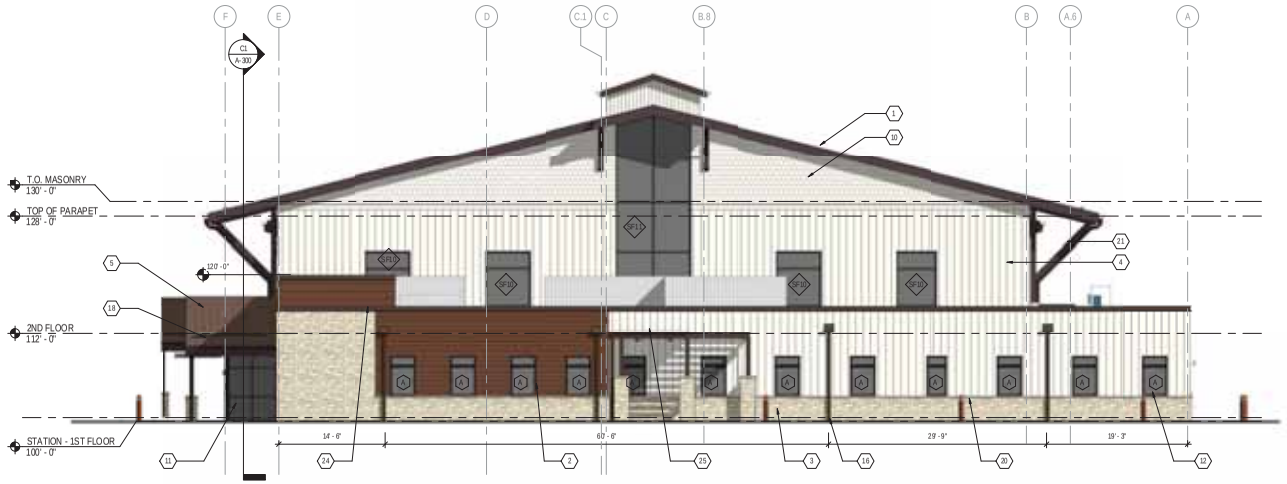
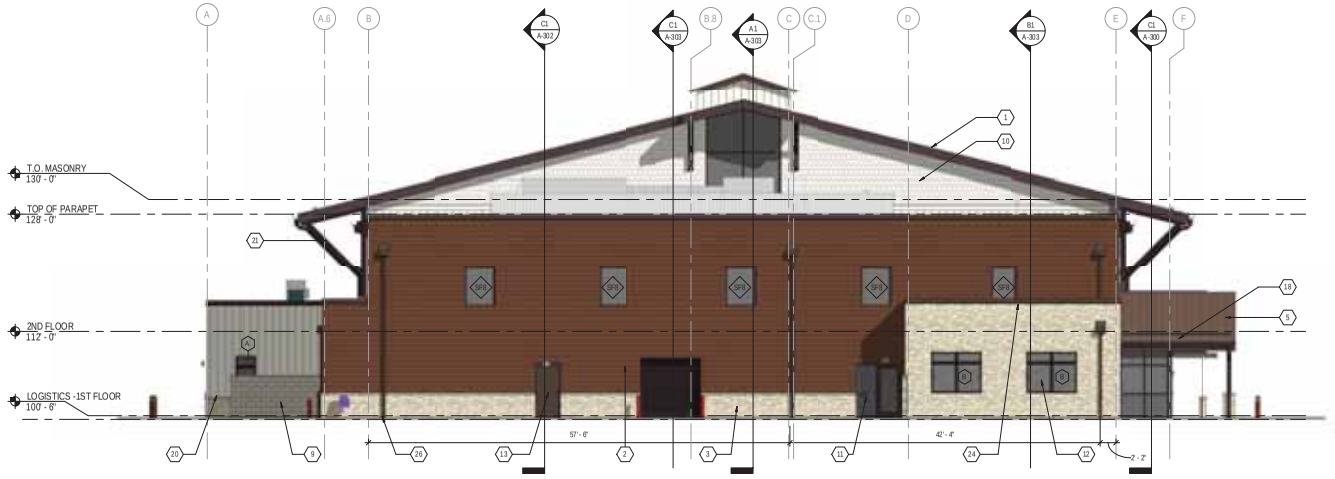


B1 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



A1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"

ELEVATION KEYNOTES

1 ASPHALT SHINGLES
2 HORIZONTAL METAL PANEL, WOOD GRAIN WALNUT
3 ADHERED MANUFACTURED STONE VENEER
4 VERTICAL METAL PANEL, 12-INCH PROFILE
5 STANDING SEAM ROOF, DARK BRONZE
6 METAL PANEL, DARK BRONZE
7 STEEL STRUCTURE AND ACCENTS, DARK BRONZE
8 APPARATUS BAY OVERHEAD SECTIONAL DOORS, DEEP RED
9 SPLIT FACE CMU, LIGHT TAN
10 METAL PANEL SHINGLE SIDING, ALMOND
11 ALUMINUM STOREFRONT, DARK BRONZE
12 OPERABLE ALUMINUM WINDOWS, DARK BRONZE
13 H.M. DOORS AND FRAMES, PAINTED DARK BRONZE
14 CASTLE ROCK FIRE RESCUE DEPARTMENT LOGO SIGNAGE
15 DIMENSIONAL LETTER SIGNAGE, LIGHT GRAY COLOR
16 DOWNSPOUT, DARK BRONZE U.N.O.
17 DOWNSPOUTS ALONGSIDE STONE PILASTERS, PAINT TO MATCH STONE
18 SNOW GUARDS AT ROOF PERIMETER
19 APPARATUS BAY FOUR-FOLD DOORS, DEEP RED
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22 GUTTER
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27 FIRE DEPARTMENT CONNECTION (FDC)
28 FIRE SPRINKLER ROOM
29 MECHANICAL SCREEN, MATCH VERTICAL METAL PANEL
30 COILING DOOR, DARK BRONZE
31 CORNER STONE LAID INTO STONE VENEER, EXACT SIZE T.B.D.
32 PAINT EXPOSED PIPING, CONDUIT, AND EQUIPMENT TO MATCH WALL SURFACE COLOR, TYPICAL
33 BACKLIT DIMENSIONAL LETTER SIGNAGE 30" TALL, RED
34 SCREEN WALL AT LOGISTICS PATIO, SPLIT FACE CMU, LIGHT TAN

EXTERIOR MATERIAL LEGEND

ASPHALT SHINGLES
BASIS OF DESIGN: OWENS CORNING, TRUDEFINITION DURATION FLEX (CLASS 4 HAIL RESISTANCE)
COLOR: DRIFTWOOD

VERTICAL METAL WALL PANEL
BASIS OF DESIGN: BERRIDGE
STYLE: HS-12
COLOR: ALMOND

METAL WALL PANEL SHINGLES
BASIS OF DESIGN: BERRIDGE FISH SCALE SHINGLES
COLOR: ALMOND

ADHERED MANUFACTURED STONE VENEER
BASIS OF DESIGN: SUNSET STONE
STYLE & COLOR: 7030 BLEND OF NATURAL COBBLE AND NATURAL LEDGE STONE

STANDING SEAM ROOF
BASIS OF DESIGN: BERRIDGE CEE-LOCK PANEL
COLOR: DARK BRONZE

HORIZONTAL METAL PANEL
BASIS OF DESIGN: HS-8
COLOR: WOOD GRAIN WALNUT

FOUR-FOLD / OVERHEAD DOORS
COLOR: RED

OVERHEAD DOORS
COLOR: DARK BRONZE

SPLIT-FACE CMU WALL
COLOR: LIGHT TAN

STEEL STRUCTURE AND ACCENTS
COLOR: DARK BRONZE

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
A-202

PROJECT STATUS:
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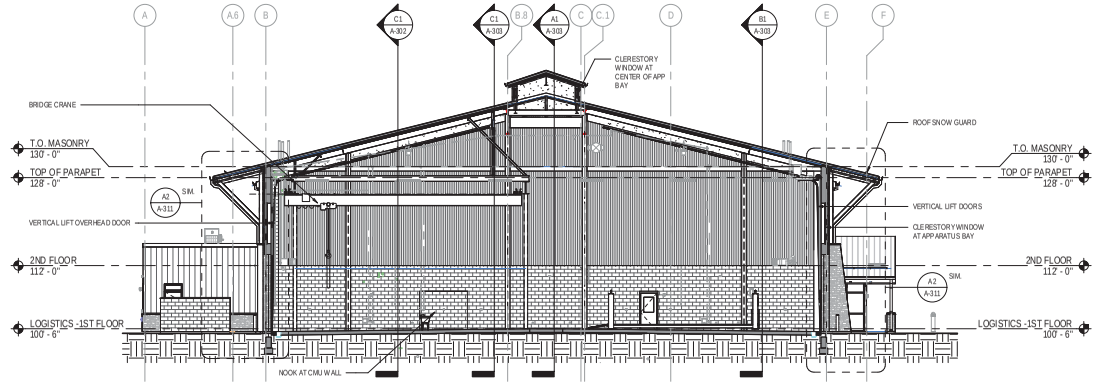
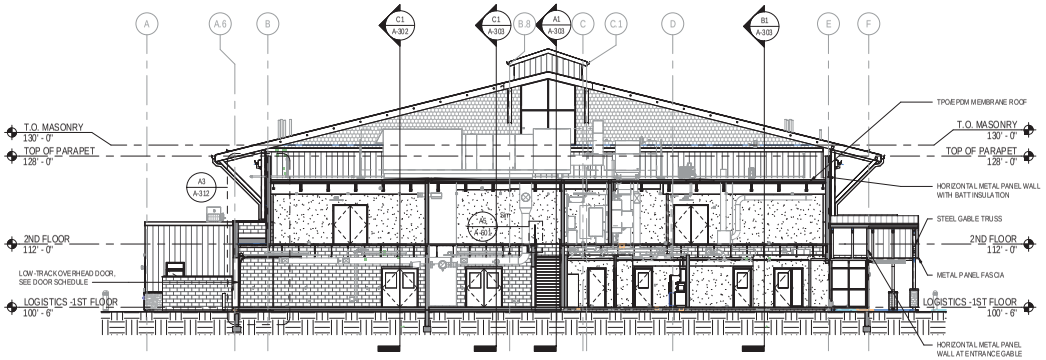
C1 SECTION AT LOBBIES - NORTH TO SOUTH

SCALE: 3/32" = 1'-0"



B1 SECTION AT LOGISTICS APPARATUS BAY - WEST TO EAST

SCALE: 3/32" = 1'-0"



A1 SECTION AT LOGISTICS MEZZANINE AND OFFICES - WEST TO EAST

SCALE: 3/32" = 1'-0"

GENERAL BUILDING SECTION NOTES

1. TPO MEMBRANE ROOF: PROVIDE MINIMUM R-30 CONTINUOUS RIGID INSULATION OVER STRUCTURAL METAL ROOF DECK, 5/8" GYPSUM PROTECTION BOARD, AND FULLY-ADHERED 60-MIL WHITE TPO ROOF MEMBRANE.
2. ASPHALT SHINGLE ROOF: BASIS OF DESIGN IS OWENS CORNING, DURATION FLEX ASPHALT SHINGLES. INSTALL SHINGLES OVER WEATHER RESISTIVE BARRIER ON 5/8" WOOD SHEATHING, OVER R-30 CONTINUOUS RIGID INSULATION OVER STRUCTURAL METAL ROOF DECK.
3. STANDING SEAM ROOF: BERRIDGE, CEE-LOCK PANEL, AGED BRONZE. INSTALL METAL ROOF PANELS OVER ICE & WATER SHIELD BARRIER ON 5/8" WOOD SHEATHING, OVER R-30 CONTINUOUS RIGID INSULATION OVER STRUCTURAL METAL ROOF DECK.
4. INSTALL A VAPOR BARRIER BENEATH CONCRETE FLOOR SLAB IN ALL LIVING QUARTER'S SPACES AND LOGISTICS OFFICE AREAS. BASIS OF DESIGN IS STEGO WRAP 15-MIL VAPOR BARRIER.
5. THERMAL INSULATION IN EXTERIOR STEEL STUD WALLS SHALL CONSIST OF HIGH-DENSITY FIBERGLASS BATTS WITH A MINIMUM R-VALUE OF R-21. INSTALL VAPOR RETARDER MEMBRANE ON WARM SIDE OF EXTERIOR STUD WALLS.
6. EXTERIOR RIGID INSULATION BOARD OVER METAL STUD FRAMED WALLS SHALL BE EXTRUDED POLYSTYRENE (XPS) BOARD, 2.5" THICK, MINIMUM R-VALUE OF R-12.5, AT EXTERIOR CMU WALLS, XPS SHALL BE 3" THICK, MINIMUM R-VALUE OF R-15.
7. EXTERIOR RIGID INSULATION BOARD AT FOUNDATIONS SHALL BE EXTRUDED POLYSTYRENE (XPS) BOARD, 4" THICK, MINIMUM R-VALUE OF R-20. INSTALL ON EXTERIOR FACE OF FOUNDATION WALL, TO TOP OF SLAB PER IECC REQUIREMENTS. INSTALL PROTECTION BOARD OVER EXPOSED INSULATION TO A MINIMUM DEPTH OF 6" BELOW GRADE.
8. AIR-WEATHER BARRIER AT EXTERIOR METAL STUD FRAMED WALLS SHALL BE A MECHANICALLY FASTENED SHEET PRODUCT WITH INTEGRATED DRAINAGE, AIR IMPERMEABLE, AND WATER VAPOR PERMEABLE. BASIS OF DESIGN IS TYVEK COMMERCIAL WRAP D. PROVIDE RELATED FLASHING AND ACCESSORIES FOR A COMPLETE AIR-WEATHER BARRIER.
9. AIR-WEATHER BARRIER AT EXTERIOR CMU WALLS SHALL BE A FLUID-APPLIED PRODUCT, AIR IMPERMEABLE AND WATER VAPOR PERMEABLE. PROVIDE RELATED FLASHING AND ACCESSORIES FOR A COMPLETE AIR-WEATHER BARRIER SYSTEM.
10. OVERHEAD DOOR BASIS OF DESIGN IS C.H.I. MODEL: 2216 SECTIONAL INSULATED STEEL DOOR WITH ALUMINUM RAIL VIEW WINDOW SECTIONS, R-17.54 POLYURETHANE CORE, AND STUCCO EMBOSSED SURFACE TEXTURE, IN CUSTOM COLOR FINISH. PROVIDE HIGH-CYCLE SPRINGS WITH 100,000-CYCLE LIFE, 3" HEAVY-DUTY TRACK AND ROLLERS. INCLUDE HEAVY-DUTY LIFTMASTER OPERATOR WITH ACCESSORIES INCLUDING, BUT NOT LIMITED TO, RED/GREEN TRAFFIC LIGHTS, ENTRAPMENT PROTECTION PHOTO EYES, CONTROL STATIONS, AND REMOTES.
11. FOUR-FOLD DOOR BASIS OF DESIGN IS DOOR ENGINEERING MODEL: FF30 GLAZED.
12. ROLLING DOOR BASIS OF DESIGN IS C.H.I. MODEL: 6202 WITH 8' X 8' OPENING, R-7.2 POLYURETHANE CORE, POWDER-COATED FINISH.
13. ALUMINUM WINDOWS: BASIS OF DESIGN FOR OPERABLE WINDOWS IS KAWNEER OPTIMA 4325 CASEMENT STYLE WINDOWS, IN DARK BRONZE ANODIZED FINISH. REFER TO WINDOW SCHEDULE FOR MORE INFORMATION.
14. ALUMINUM STOREFRONT SYSTEM: BASIS OF DESIGN IS KAWNEER VERSAGLAZE ULTRA THERMAL 451UT WITH A DOUBLE THERMAL BREAK FRAME, IN DARK BRONZE ANODIZED FINISH. REFER TO WINDOW SCHEDULE FOR MORE INFORMATION.
15. ALUMINUM ENTRANCE DOORS: BASIS OF DESIGN IS KAWNEER INSULCLAD 560 WIDE STILE ENTRANCE WITH 10" BOTTOM RAIL, IN DARK BRONZE ANODIZED FINISH. REFER TO DOOR SCHEDULE FOR MORE INFORMATION.
16. WOOD METAL ACCENT WALL PANELS: BERRIDGE, HS-8, WALNUT (HORIZONTAL)
17. WHITE METAL WALL PANELS: BERRIDGE, HS-12, ALMOND (VERTICAL)
18. BROWN METAL SOFFIT PANELS: BERRIDGE L-PANEL, DARK BRONZE

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SHEET TITLE:
BUILDING SECTIONS

SHEET ID:
A-300

PROJECT STATUS:
Construction Documents

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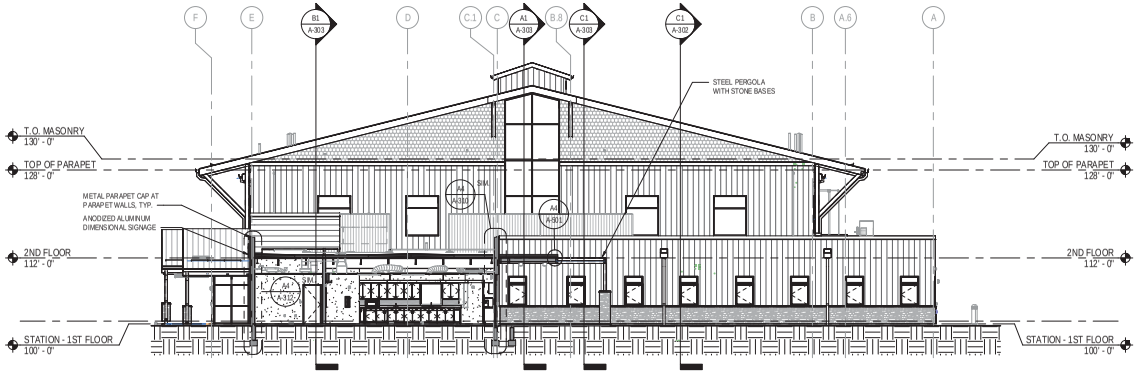
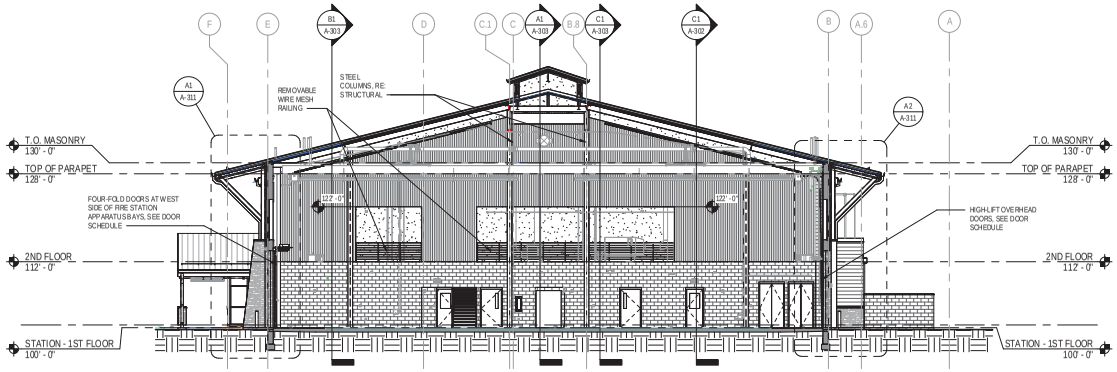


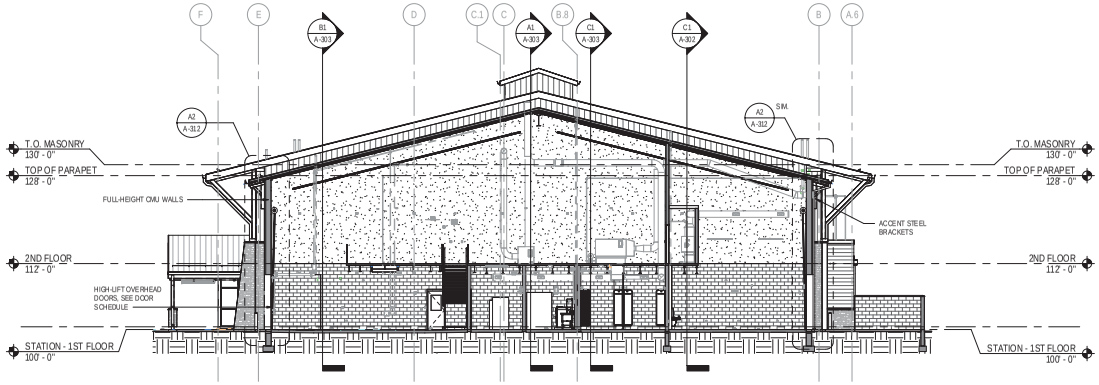
C1 SECTION AT FIRE STATION LIVING QUARTERS AND PATIO

SCALE: 3/32" = 1'-0"



B1 SECTION AT FIRE STATION APPARATUS BAY

SCALE: 3/32" = 1'-0"



A1 SECTION AT CENTRAL APPARATUS

SCALE: 3/32" = 1'-0"

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BUILDING SECTIONS

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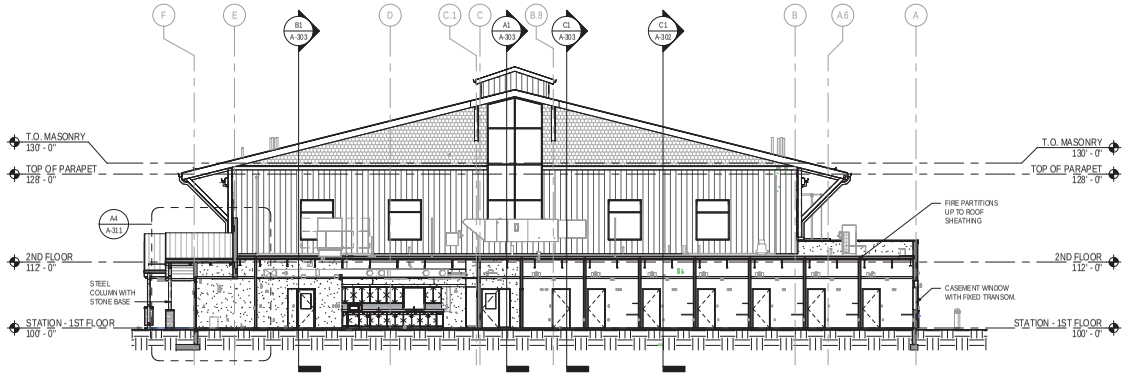
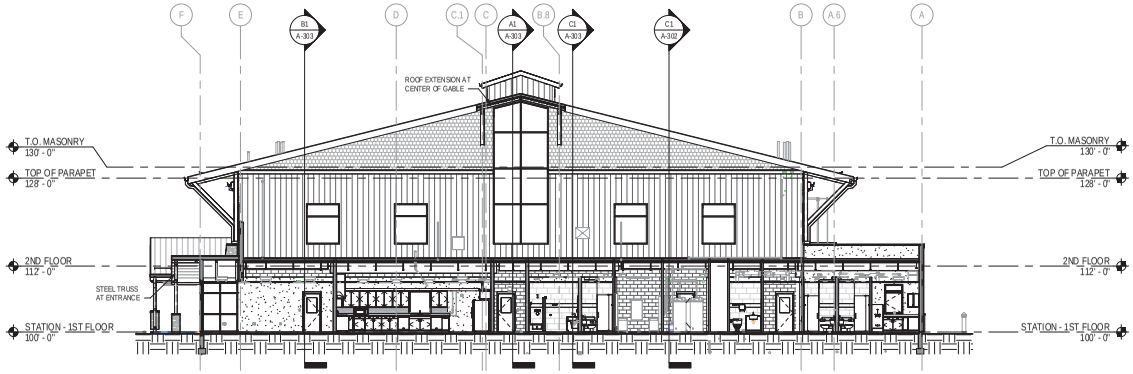
C1 SECTION - NORTH TO SOUTH

SCALE: 3/32" = 1'-0"



B1 SECTION AT FIRE STATION LIVING QUARTERS AND BUNK ROOMS

SCALE: 3/32" = 1'-0"



A1 SECTION AT FIRE STATION LIVING QUARTERS AND BATHROOMS

SCALE: 3/32" = 1'-0"

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SHEET TITLE:
BUILDING SECTIONS

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A-302

PROJECT STATUS:
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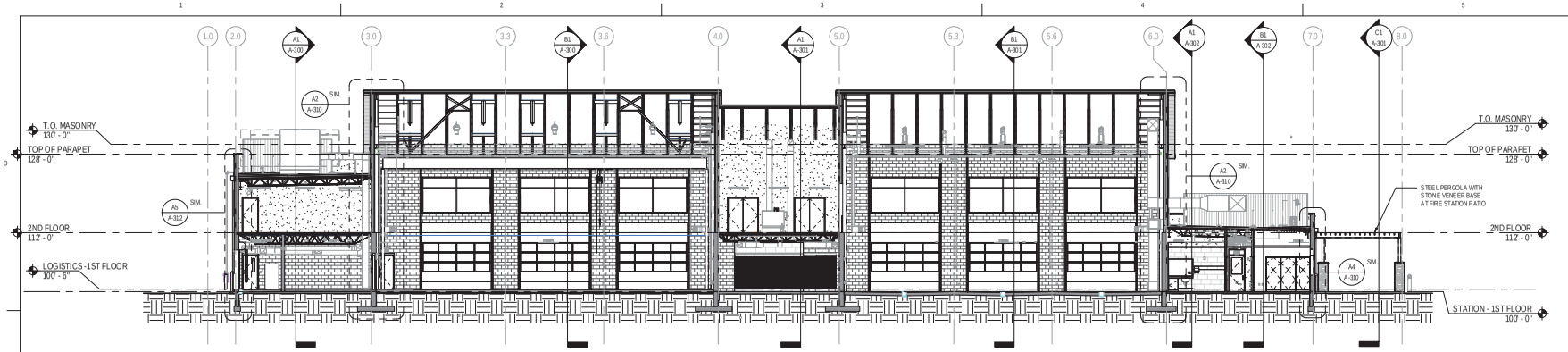

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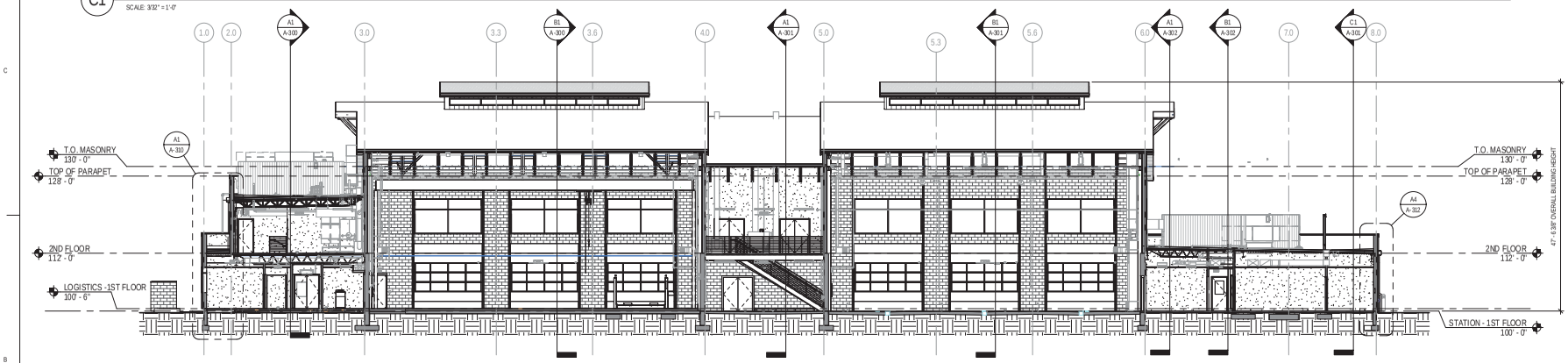
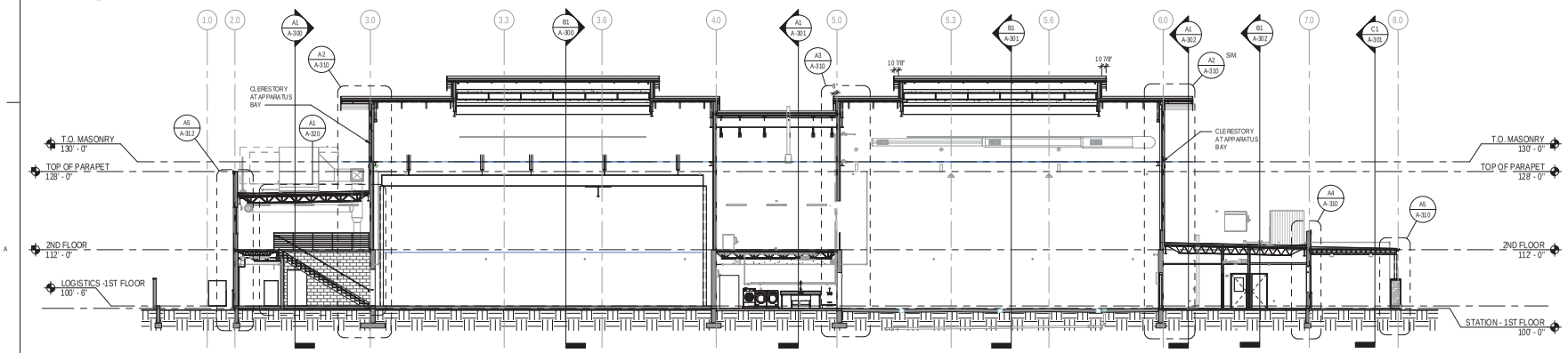
SCALE: 3/32" = 1'-0"



B1 SECTION - NORTH TO SOUTH 3

SCALE: 3/32" = 1'-0"



A1 SECTION - NORTH TO SOUTH 2

SCALE: 3/32" = 1'-0"

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DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SHEET TITLE:
BUILDING SECTIONS

SHEET ID:
A-303

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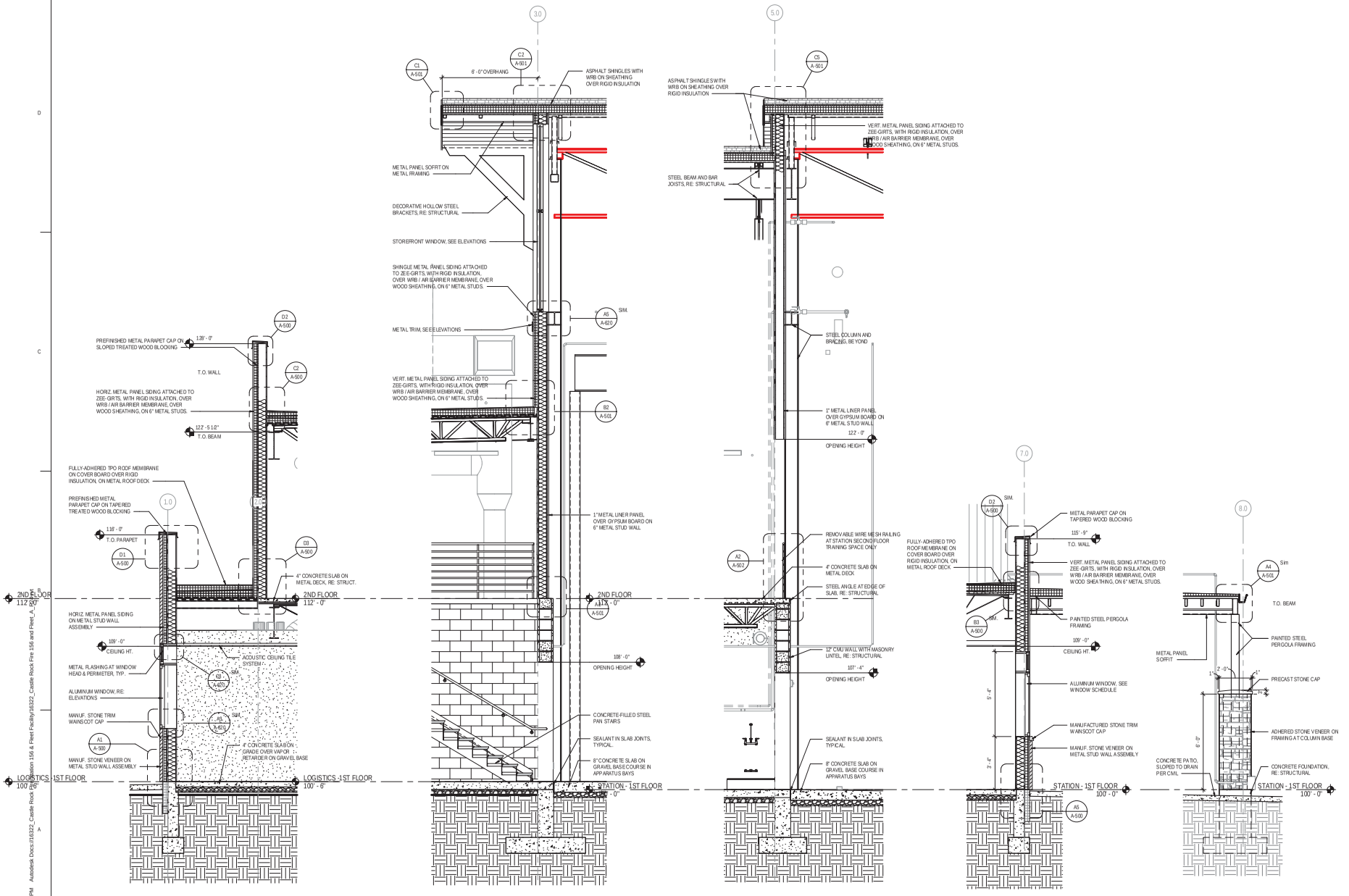

A1 SECTION AT STONE WALL
SCALE: 3/8" = 1'-0"

A2 SECTION AT LOGISTICS APPARATUS BAY
SCALE: 3/8" = 1'-0"

A3 SECTION AT FIRE MEZZANINE
SCALE: 3/8" = 1'-0"

A4 SECTION AT FIRE STATION PATIO
SCALE: 3/8" = 1'-0"

A5 SECTION AT PERGOLA
SCALE: 3/8" = 1'-0"

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WALL SECTIONS

SHEET ID:
A-310

PROJECT STATUS:
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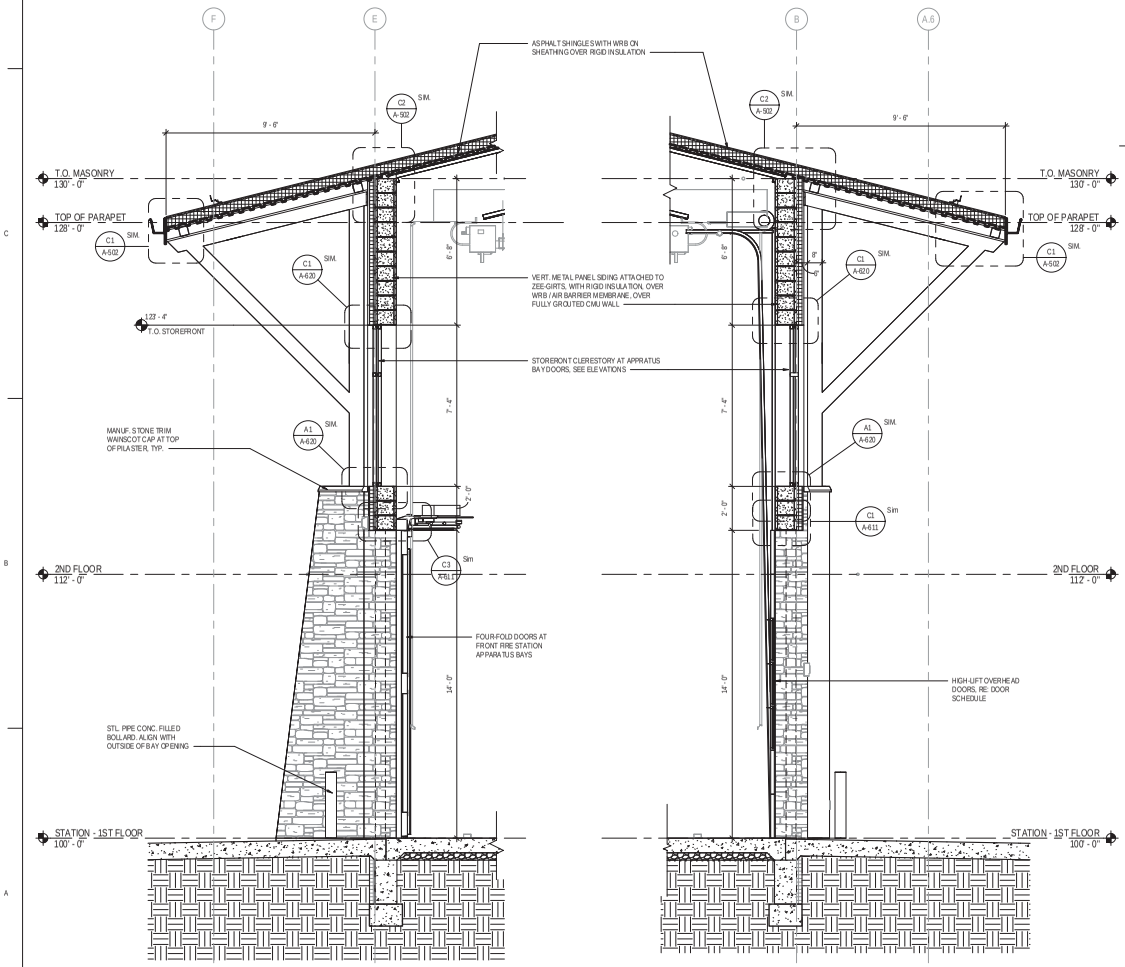
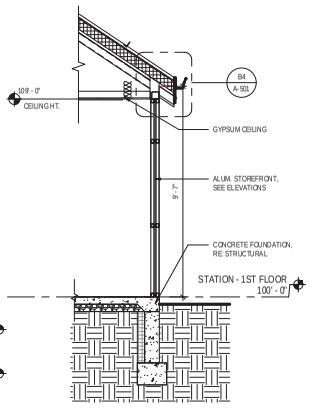


A1 SECTION AT FOUR-FOLD DOOR IN APPARATUS BAY

SCALE: 3/8" = 1'-0"

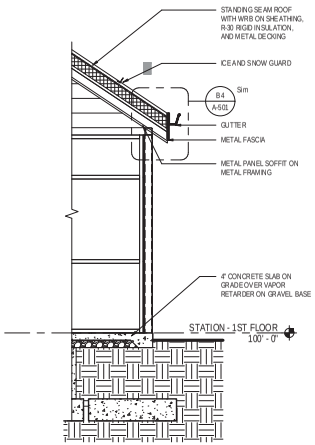
A2 SECTION AT SECTIONAL DOOR IN APP BAYS

SCALE: 3/8" = 1'-0"



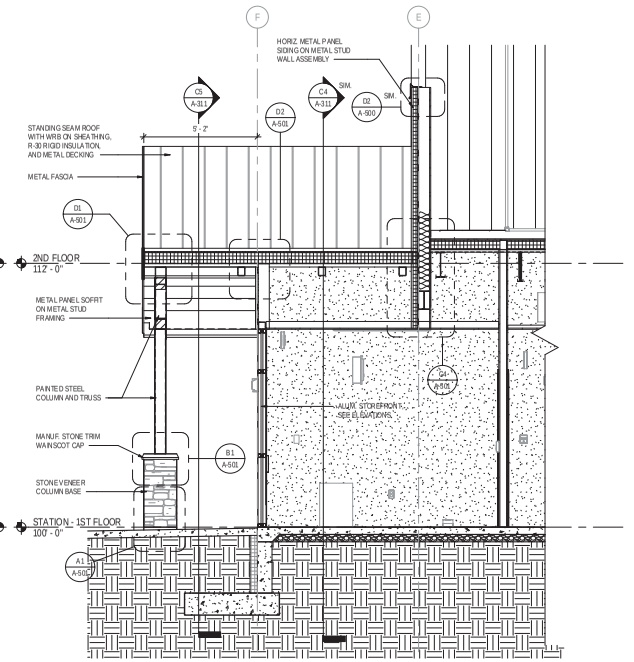
C4 SECTION AT F.S. LOBBY

SCALE: 3/8" = 1'-0"



C5 SECTION AT F.S. ENTRY PORCH

SCALE: 3/8" = 1'-0"



A4 SECTION AT FIRE STATION ENTRANCE

SCALE: 3/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
WALL SECTIONS

SHEET ID:
A-311

PROJECT STATUS:
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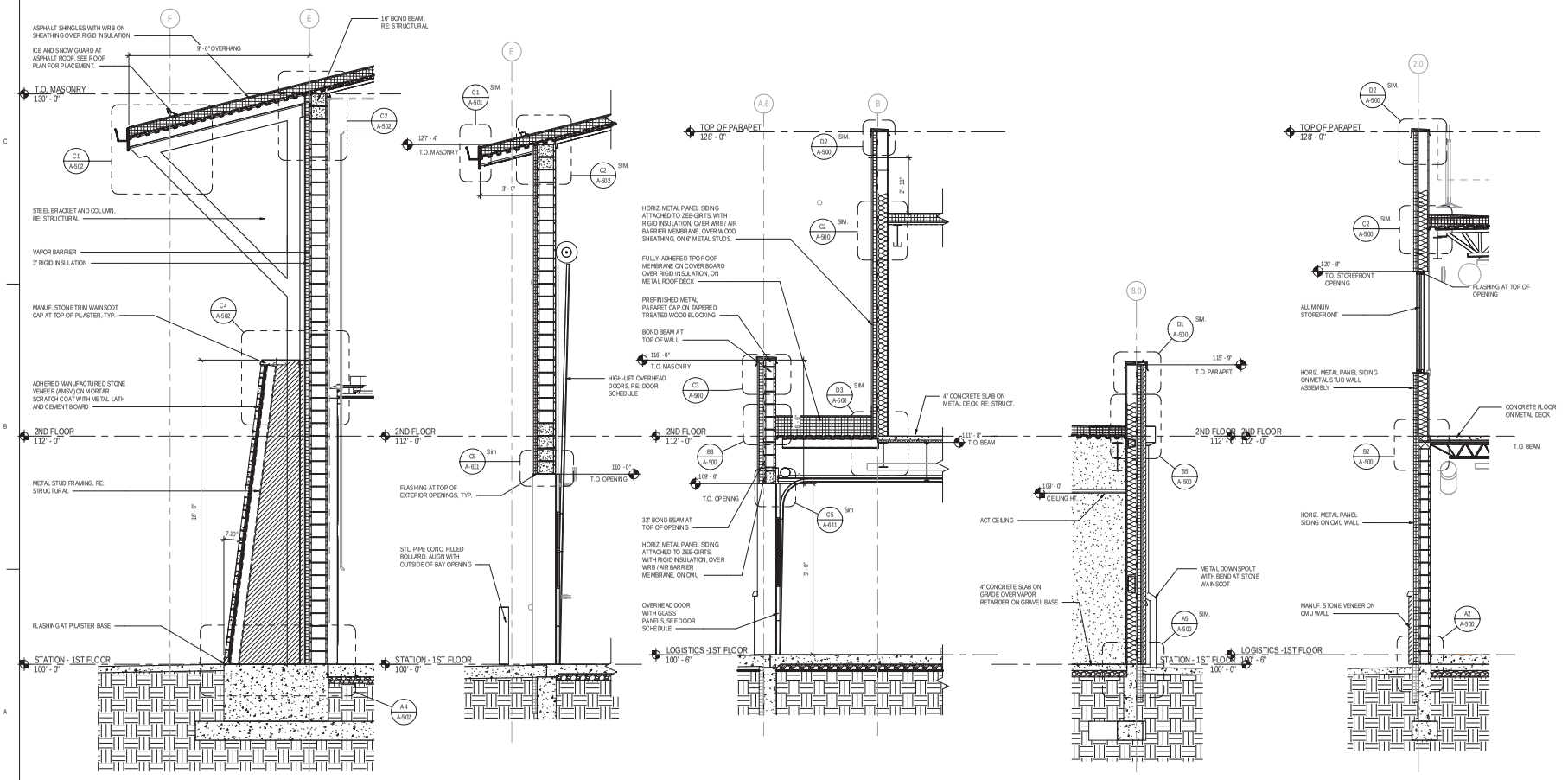

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PROJECT TITLE:
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WALL SECTIONS

SHEET ID:
A-312

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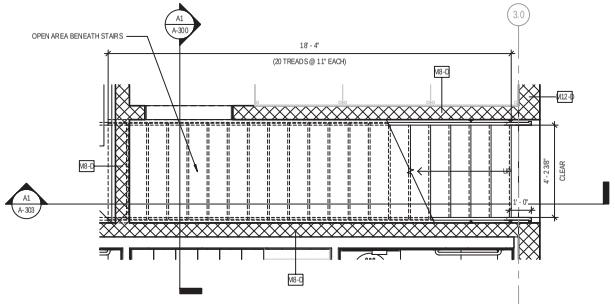
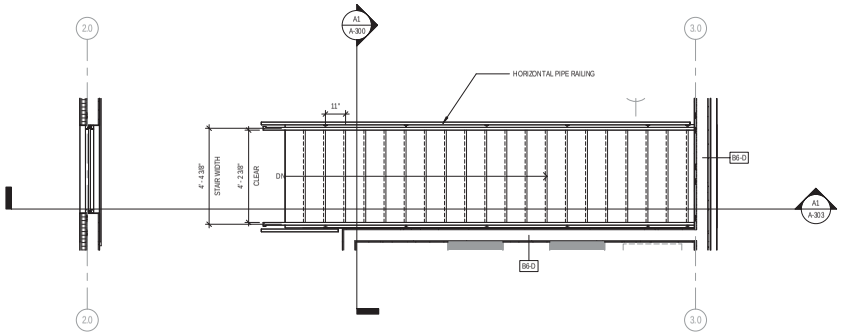


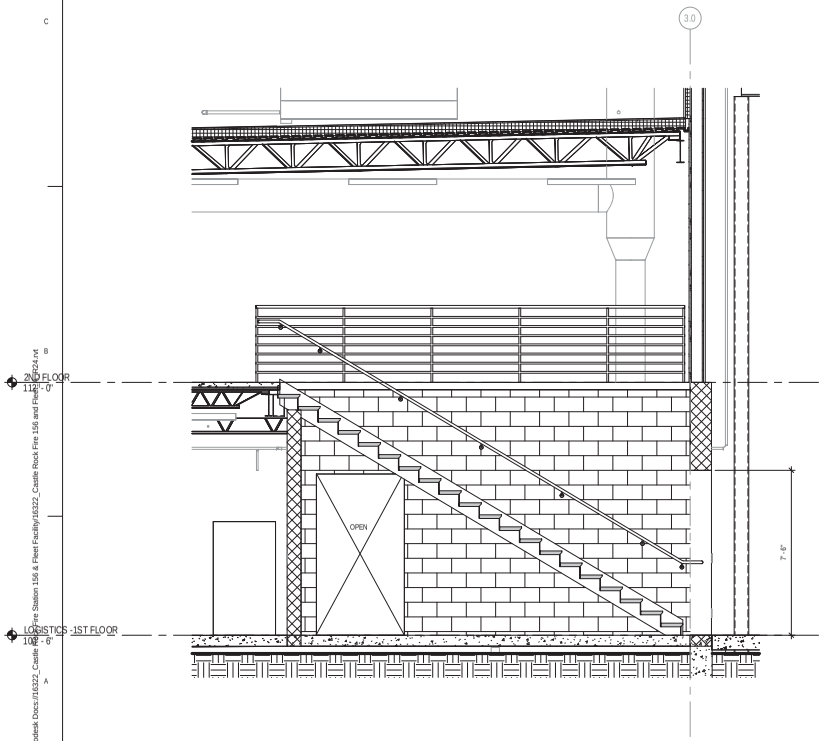
C1 LOGISTICS STAIR - FIRST FLOOR PLAN

SCALE: 3/8" = 1'-0"



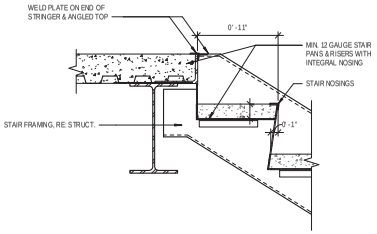
C3 LOGISTICS STAIR - SECOND FLOOR PLAN

SCALE: 3/8" = 1'-0"



A1 LOGISTICS STAIR - SECTION

SCALE: 3/8" = 1'-0"



A3 STEEL PAN - STAIR SECTION DETAIL

SCALE: 1 1/2" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

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SEAL:

SHEET TITLE:
ENLARGED STAIR SECTIONS - LOGISTICS

SHEET ID:
A-320

PROJECT STATUS:
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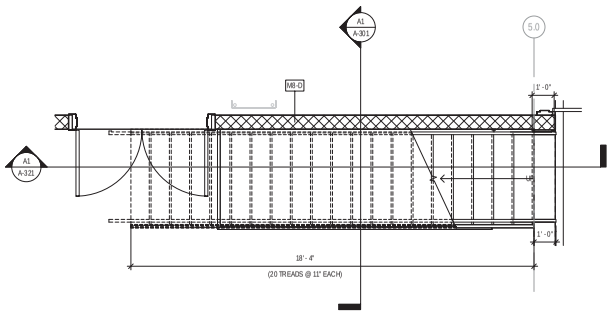
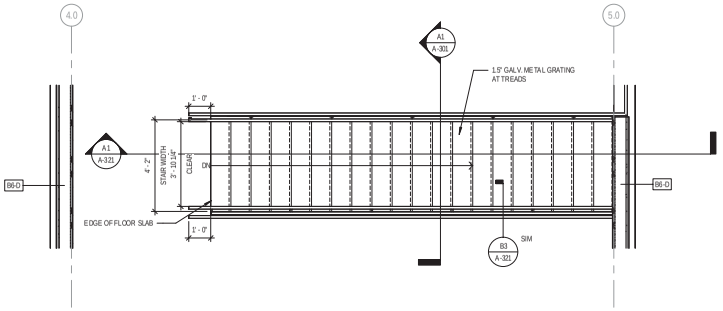


C1 FIRE STATION STAIR - FIRST FLOOR PLAN

SCALE: 3/8" = 1'-0"



C3 FIRE STATION STAIR - SECOND FLOOR PLAN

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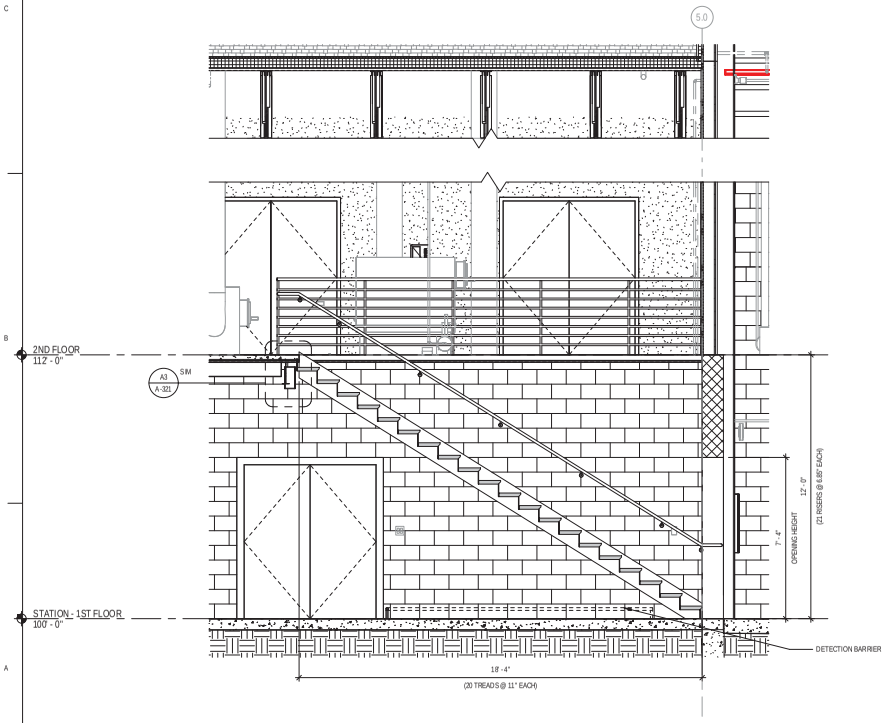
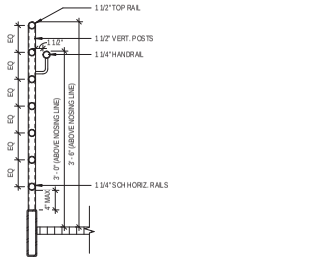


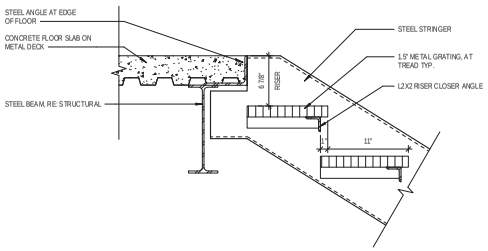
A1 FIRE STATION STAIR - SECTION

SCALE: 3/8" = 1'-0"



B3 GUARDRAIL & HANDRAIL AT FIRE STATION

SCALE: 1" = 1'-0"



A3 METAL GRATE - STAIR SECTION DETAIL

SCALE: 1 1/2" = 1'-0"

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

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SEAL:

SHEET TITLE:
ENLARGED STAIR SECTIONS - FIRE STATION

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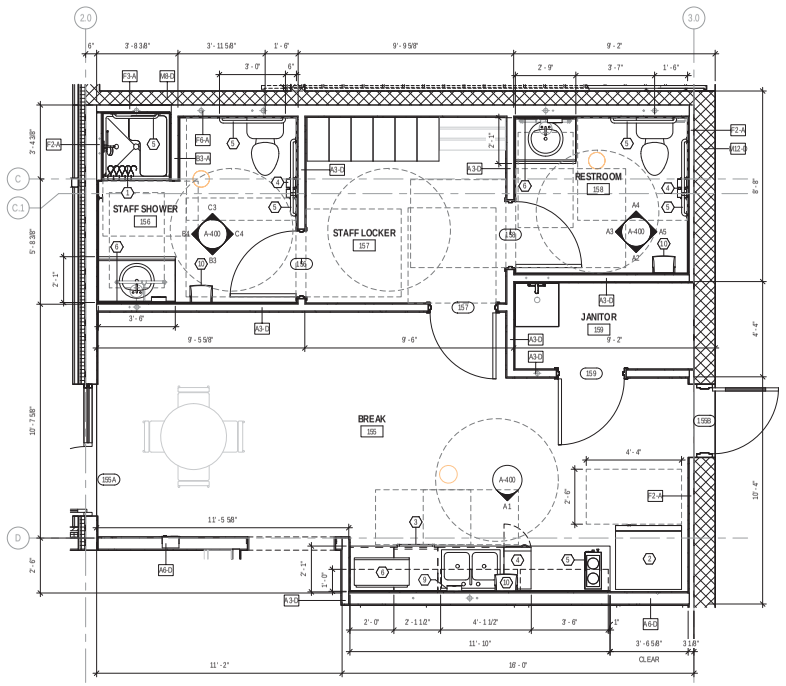


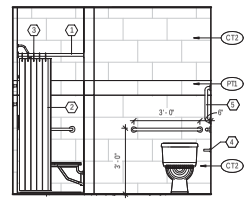
PN

B1 1ST FLOOR ENLARGED PLAN - LOGISTICS BREAK ROOM & BATHROOMS

SCALE: 3/8" = 1'-0"

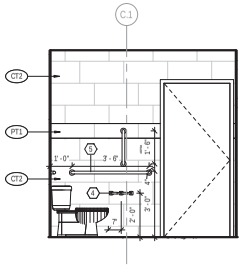
GENERAL ACCESSIBILITY NOTES FOR BATHROOMS:

1. ADA BATHROOM 127 IS ACCESSIBLE PER ICC A117.1-2009 SECTION 1002.11.2.
2. DECON SHOWER ROOMS 121 AND 122 (DECONTAMINATION FACILITIES) ARE CONSIDERED EMPLOYEE WORK AREAS AS THEY ARE ONLY USED BY FIRE STATION EMPLOYEES AND ONLY DURING THE PERFORMANCE OF DUTIES.
3. ALL OTHER DORM WING BATHROOMS (ROOMS 118, 119, 126) SHALL HAVE GRAB BAR REINFORCEMENT IN ACCORDANCE WITH SECTION 1002.11.1.
4. GRAB BAR REINFORCEMENT IN BATHROOMS 118, 119, and 126 SHALL BE PROVIDED PER SECTION 1004.11.1, EXCEPTION 2 (24" REAR WALL GRAB BAR) AND EXCEPTION 5 (SWING-UP GRAB BARS).
5. SHOWER SEAT REINFORCEMENT IS NOT REQUIRED IN BATHROOMS 118, 119, and 126 PER SECTION 1004.11.1, EXCEPTION 7. SHOWERS ARE LARGER THAN 36" X 36".



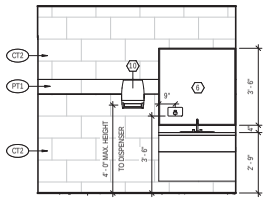
C3 LOGISTICS STAFF SHOWER

SCALE: 3/8" = 1'-0"



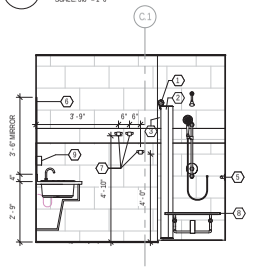
C4 LOGISTICS STAFF SHOWER

SCALE: 3/8" = 1'-0"



B3 LOGISTICS STAFF SHOWER

SCALE: 3/8" = 1'-0"



B4 LOGISTICS STAFF SHOWER

SCALE: 3/8" = 1'-0"

1	SEAL ALL VOIDS AT UNDERSIDE OF METAL DECK
2	FRP UP TO 9'-0" AFF.
3	FAUCET CONTROL FOOT PEDAL AND FAUCET TO BE INSTALLED BY PLUMBING. REF. TO PLUMB. DRAWINGS FOR MORE INFORMATION
4	PROVIDE GLASS SHOWER DOORS AT ALL NON-ACCESSIBLE SHOWERS

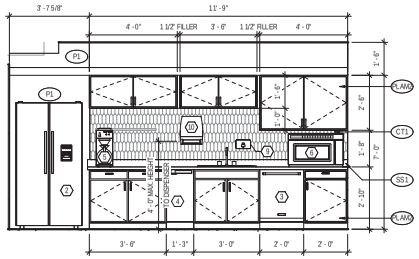
BATHROOM ACCESSORIES SCHEDULE

1	SHOWER CURTAIN ROD BRADLEY 9538 STAINLESS STEEL
2	SHOWER CURTAIN BRADLEY 9537 WHITE
3	SHOWER CURTAIN HOOKS BRADLEY 9536 STAINLESS STEEL
4	DUAL ROLL TOILET PAPER DISPENSER BRADLEY 5234 SS
5	GRAB BARS - SIZED AS NOTED BRADLEY 812 STAINLESS STEEL
6	FRAMELESS MIRRORS - SIZED AS NOTED BRADLEY GLASS
7	TOWEL HOOKS BRADLEY 9314 STAINLESS STEEL
8	SHOWER SEAT BRADLEY 9884 STAINLESS STEEL
9	HAND SOAP DISPENSER BY OWNER, INSTALLED BY CONTRACTOR (OFCI)
10	PAPER TOWEL DISPENSER BY OWNER, INSTALLED BY CONTRACTOR (OFCI)

APPLIANCE SCHEDULE

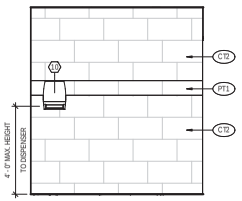
REFER TO FF&E SPREADSHEET FOR SPECIFIC MODELS AND LINKS

1	4 BURNER STOVE; B.O.D. KITCHENAID 30" 5-BURN MODEL #KFGG500ESS
2	RESIDENTIAL SIDE BY SIDE REFRIGERATOR; B.O.D. FRIGIDAIRE 25.5 CUFT MODEL #LFSS2612TF
3	DISHWASHER; B.O.D. KITCHENAID 44 DBA MODEL #KDTM704ESS
4	ICEMAKER; B.O.D. MANITOWOC MODEL #SM-50A
5	COFFEE MAKER; B.O.D. BUNN VP R - POUROVER COFFEE MAKER
6	MICROWAVE; B.O.D. SPEC NEEDED
7	RANGE HOOD; B.O.D. BLUE STAR 66" PROLINE VENT HOOD MODEL #PL06VAL



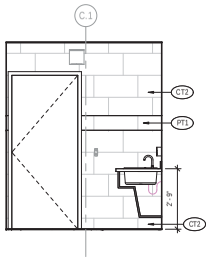
A1 LOGISTICS BREAK ROOM - SOUTH

SCALE: 3/8" = 1'-0"



A2 LOGISTICS RESTROOM - SOUTH

SCALE: 3/8" = 1'-0"



A3 LOGISTICS RESTROOM - WEST

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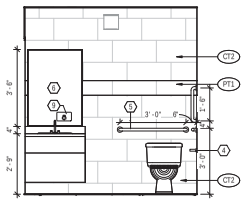
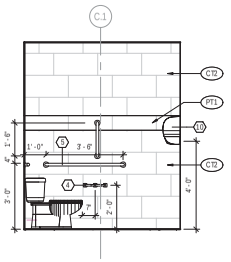


A4 LOGISTICS RESTROOM - NORTH

SCALE: 3/8" = 1'-0"



A5 LOGISTICS RESTROOM - EAST

SCALE: 3/8" = 1'-0"

SCALE 3/8" = 1'-0"

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ENLARGED BREAK ROOM INTERIOR FINISH PLANS AND ELEVATIONS

SHEET ID:
A-400

PROJECT STATUS:
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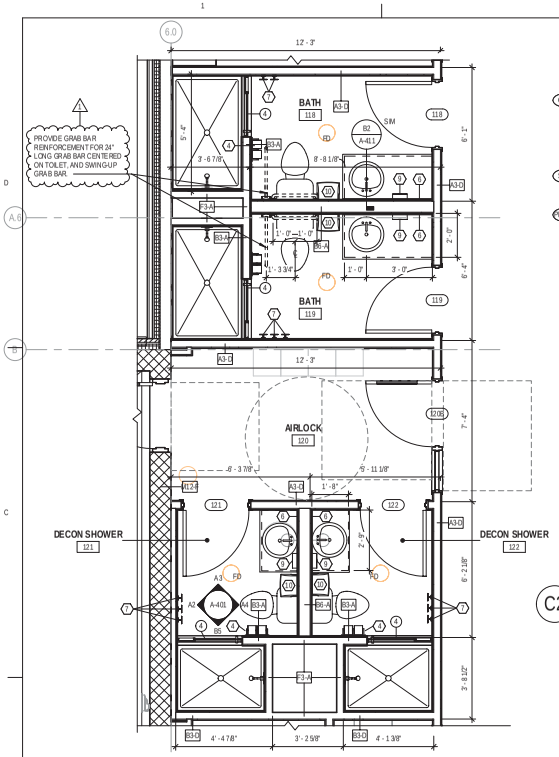
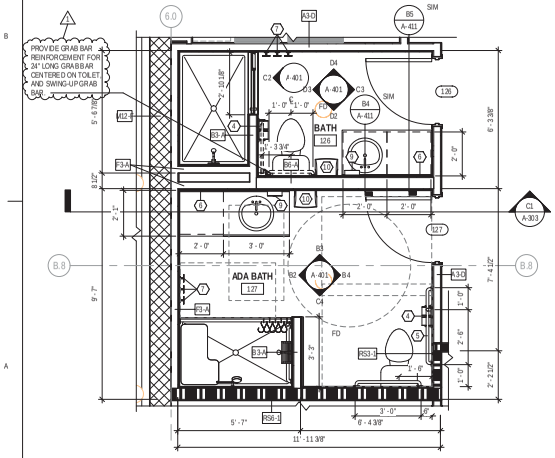
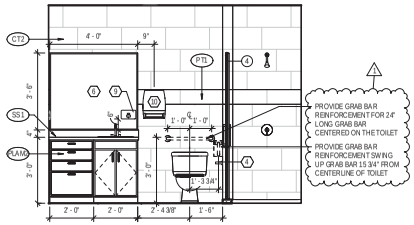


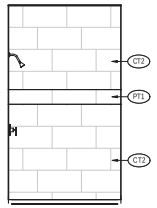
B1 1ST FLOOR ENLARGED PLAN - DECON / BATHROOMS
SCALE: 3/8" = 1'-0"



A1 1ST FLOOR FINISH PLAN - FIRE STATION BATH AND ADA BATH
SCALE: 3/8" = 1'-0"



D2 TYP. FIRE STATION BATH
SCALE: 3/8" = 1'-0"



D3 TYP. FIRE STATION BATH
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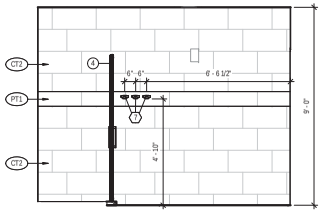

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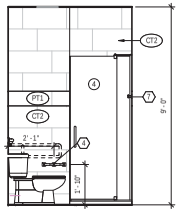
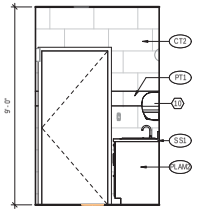
SCALE: 3/8" = 1'-0"



C2 TYP. FIRE STATION BATH
SCALE: 3/8" = 1'-0"



C3 TYP. FIRE STATION BATH
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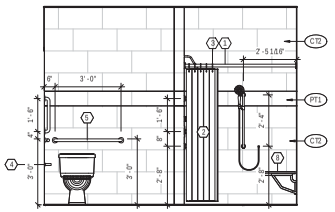
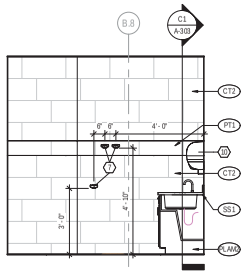
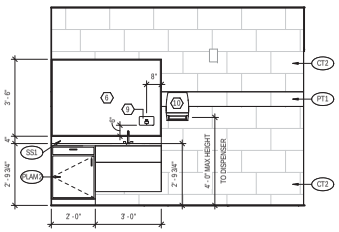


C4 FIRE STATION ADA BATH
SCALE: 3/8" = 1'-0"



B2 FIRE STATION ADA BATH
SCALE: 3/8" = 1'-0"



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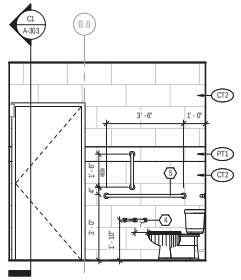

B4 FIRE STATION ADA BATH
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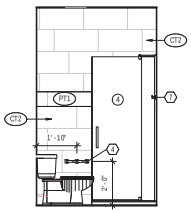
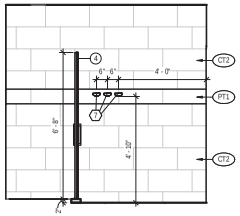
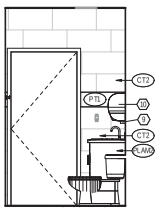


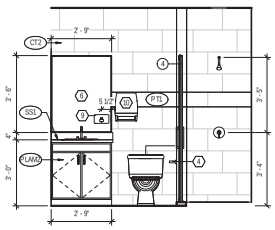
B5 DECON SHOWER ELEVATION
SCALE: 3/8" = 1'-0"



A2 DECON SHOWER
SCALE: 3/8" = 1'-0"



A3 DECON SHOWER ELEVATION
SCALE: 3/8" = 1'-0"



A4 DECON SHOWER ELEVATION
SCALE: 3/8" = 1'-0"

INTERIOR PLAN & ELEVATION GENERAL NOTES

1. LIP OF SINK AT ACCESSIBLE SURFACES NOT TO EXCEED 2'-9 3/4" A.F.F.
2. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
3. VERIFY MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT AND FIXTURES PRIOR TO INSTALLATION.
4. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, AND PLUMBING TRADES TO AVOID CONFLICTS.

INTERIOR PLAN & ELEVATION KEYNOTES

1. SEAL ALL VOIDS AT UNDERSIDE OF METAL DECK
2. FRP UP TO 9'-0" AFF.
3. FAUCET CONTROL FOOT PEDAL AND FAUCET TO BE INSTALLED BY PLUMBING. REF. TO PLUMB. DRAWINGS FOR MORE INFORMATION
4. PROVIDE GLASS SHOWER DOORS AT ALL NON-ACCESSIBLE SHOWERS

BATHROOM ACCESSORIES SCHEDULE

1	SHOWER CURTAIN ROD BRADLEY 9538 STAINLESS STEEL
2	SHOWER CURTAIN BRADLEY 9537 WHITE
3	SHOWER CURTAIN HOOKS BRADLEY 9536 STAINLESS STEEL
4	DUAL ROLL TOILET PAPER DISPENSER BRADLEY 5234 SS
5	GRAB BARS - SIZED AS NOTED BRADLEY 8122 STAINLESS STEEL
6	FRAMELESS MIRRORS - SIZED AS NOTED BRADLEY GLASS
7	TOWEL HOOKS BRADLEY 9314 STAINLESS STEEL
8	SHOWER SEAT BRADLEY 9884 STAINLESS STEEL
9	HAND SOAP DISPENSER BY OWNER, INSTALLED BY CONTRACTOR (OFCI)
10	PAPER TOWEL DISPENSER BY OWNER, INSTALLED BY CONTRACTOR (OFCI)

GENERAL ACCESSIBILITY NOTES FOR BATHROOMS:

1. ADA BATHROOM 127 IS ACCESSIBLE PER ICC A117.1-2009 SECTION 1002.11.2.
2. DECON SHOWER ROOMS 121 AND 122 (DECONTAMINATION FACILITIES) ARE CONSIDERED EMPLOYEE WORK AREAS AS THEY ARE ONLY USED BY FIRE STATION EMPLOYEES AND ONLY DURING THE PERFORMANCE OF DUTIES.
3. ALL OTHER DORM WING BATHROOMS (ROOMS 118, 119, 126) SHALL HAVE GRAB BAR REINFORCEMENT IN ACCORDANCE WITH SECTION 1002.11.1.
4. GRAB BAR REINFORCEMENT IN BATHROOMS 118, 119, AND 126 SHALL BE PROVIDED PER SECTION 1004.11.1, EXCEPTION 2 (24" REAR WALL GRAB BAR) AND EXCEPTION 5 (SWING-UP GRAB BARS).
5. SHOWER SEAT REINFORCEMENT IS NOT REQUIRED IN BATHROOMS 118, 119, AND 126 PER SECTION 1004.11.1, EXCEPTION 7. SHOWERS ARE LARGER THAN 36" X 36".

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102 East Moreno Avenue
Colorado Springs, CO 80903
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www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
ENLARGED FIRE STATION RESTROOM INTERIOR FINISH PLANS AND ELEVATIONS

SHEET ID:
A-401

PROJECT STATUS:
Construction Documents

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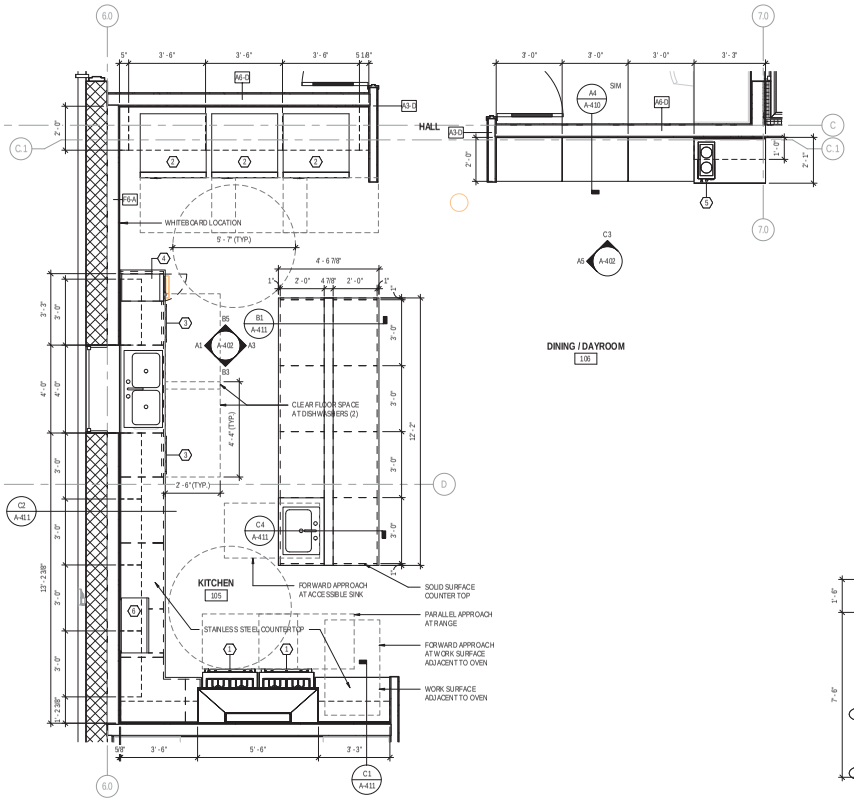
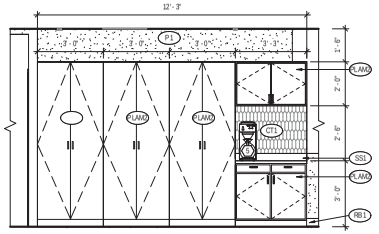
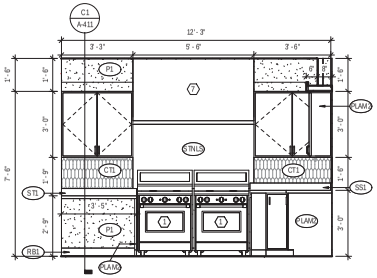


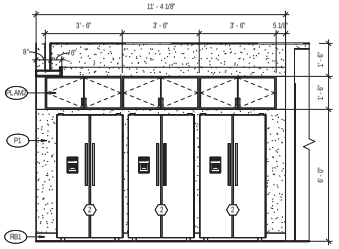
B1 1ST FLOOR ENLARGED PLAN - FIRE STATION KITCHEN & COFFEE STATION
SCALE: 3/8" = 1'-0"



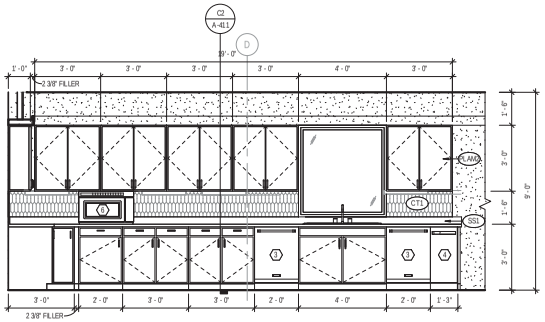
C3 COFFEE STATION
SCALE: 3/8" = 1'-0"



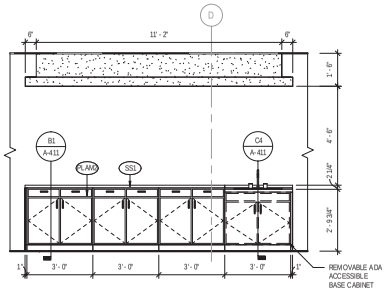
B3 FIRE STATION KITCHEN
SCALE: 3/8" = 1'-0"



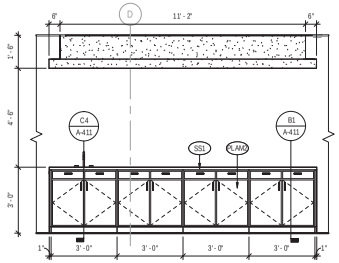
B5 FIRE STATION KITCHEN
SCALE: 3/8" = 1'-0"



A1 FIRE STATION KITCHEN
SCALE: 3/8" = 1'-0"



A3 FIRE STATION KITCHEN ISLAND
SCALE: 3/8" = 1'-0"



A5 FIRE STATION KITCHEN ISLAND
SCALE: 3/8" = 1'-0"

SCALE 3/8" = 1'-0"

INTERIOR PLAN & ELEVATION GENERAL NOTES

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2. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
3. VERIFY MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT AND FIXTURES PRIOR TO INSTALLATION.
4. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, AND PLUMBING TRADES TO AVOID CONFLICTS.

INTERIOR PLAN & ELEVATION KEYNOTES

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2. FRP UP TO 9'-0" AFF.
3. FAUCET CONTROL FOOT PEDAL AND FAUCET TO BE INSTALLED BY PLUMBING. REF. TO PLUMB. DRAWINGS FOR MORE INFORMATION
4. PROVIDE GLASS SHOWER DOORS AT ALL NON-ACCESSIBLE SHOWERS

APPLIANCE SCHEDULE

REFER TO FF&E SPREADSHEET FOR SPECIFIC MODELS AND LINKS

1	4 BURNER STOVE; B.O.D. KITCHENAID 30" 5-BURN MODEL #KFGG500EBS
2	RESIDENTIAL SIDE BY SIDE REFRIGERATOR; B.O.D. FRIGIDAIRE 25.5 CUFT MODEL #LFSS2612TF
3	DISHWASHER; B.O.D. KITCHENAID 44 DBA MODEL #KDTM704ESS
4	ICEMAKER; B.O.D. MANITOWOC MODEL #SM-50A
5	COFFEE MAKER; B.O.D. BUNN VPR - POUROVER COFFEE MAKER
6	MICROWAVE; B.O.D. SPEC NEEDED
7	RANGE HOOD; B.O.D. BLUESTAR 66" PROLINE VENT HOOD MODEL #PL066WL

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102 East Moreno Avenue
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719-473-7063
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
ENLARGED FIRE STATION KITCHEN INTERIOR FINISH PLANS AND ELEVATIONS

SHEET ID:
A-402

PROJECT STATUS:
Construction Documents

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INTERIOR PLAN & ELEVATION GENERAL NOTES

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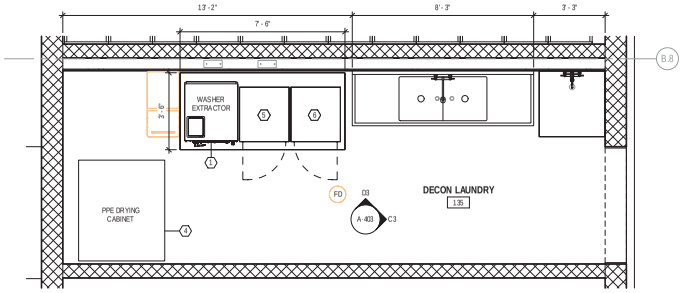
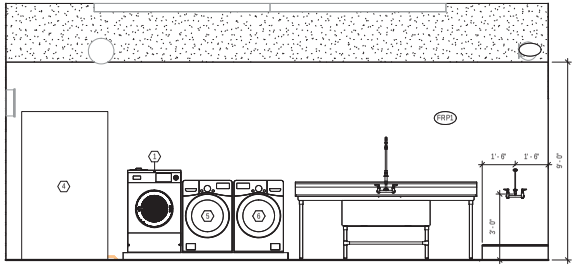
4. PROVIDE GLASS SHOWER DOORS AT ALL NON-ACCESSIBLE SHOWERS

LAUNDRY EQUIPMENT SCHEDULE

1	DECON ROOM CLOTHING EXTRACTOR
2	RESIDENTIAL CLOTHES WASHER - DECON LAUNDRY
3	RESIDENTIAL CLOTHES DRYER - DECON LAUNDRY
4	GEAR DRYING CABINET
5	RESIDENTIAL CLOTHES WASHER - CLEAN LAUNDRY
6	RESIDENTIAL CLOTHES DRYER - CLEAN LAUNDRY



C1 1ST FLOOR FINISH PLAN - FIRE STATION - DECON LAUNDRY
SCALE: 3/8" = 1'-0"



D3 DECON LAUNDRY
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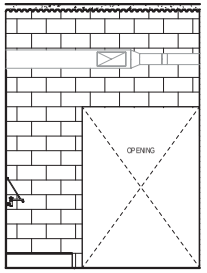

C3 DECON LAUNDRY
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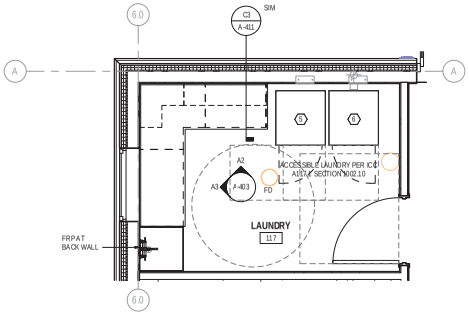

A1 CLEAN LAUNDRY - ENLARGED PLAN
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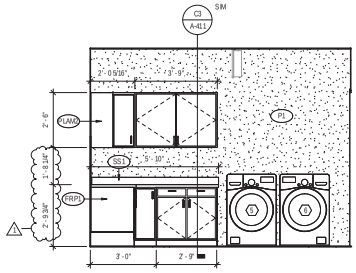

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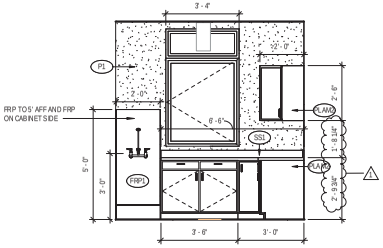

A3 CLEAN LAUNDRY
SCALE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
ENLARGED FIRE STATION LAUNDRY INTERIOR FINISH PLANS AND ELEVATIONS

SHEET ID:
A-403

PROJECT STATUS:
Construction Documents

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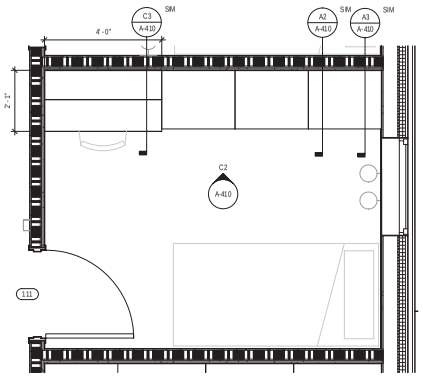
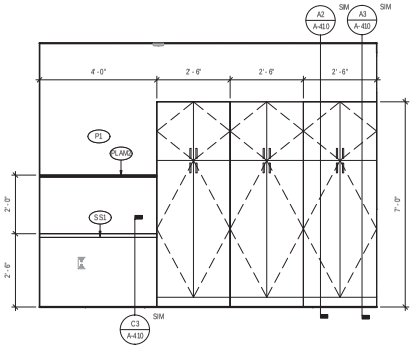


PIN

C1 1ST FLOOR FINISH PLAN - FIRE STATION DORM TYP.

SCALE: 1/2" = 1'-0"



C2 DORM ROOM - INTERIOR ELEVATION

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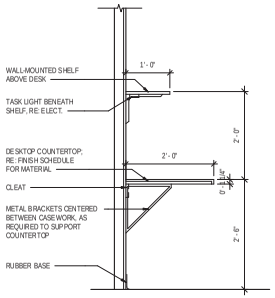
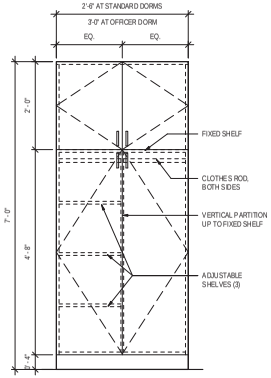


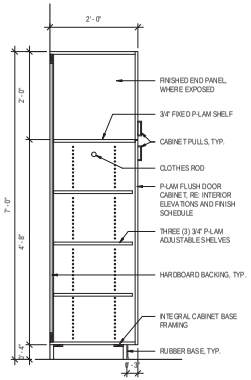
C3 CASEWORK SECTION AT DESK

SCALE: 3/4" = 1'-0"



A1 TYPICAL WARDROBE CABINET ELEVATION

SCALE: 3/4" = 1'-0"



A2 WARDROBE SECTION W/ SHELVES

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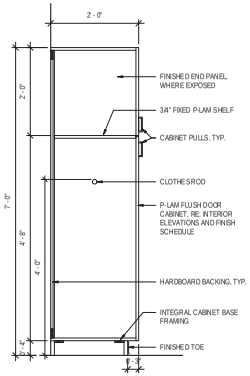

A3 WARDROBE SECTION W/ CLOTHING ROD

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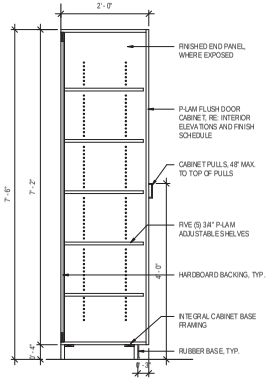

A4 TYPICAL PANTRY STORAGE CABINET SECTION

SCALE: 3/4" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
INTERIOR MILLWORK SECTIONS AND DETAILS

SHEET ID:
A-410

PROJECT STATUS:
Construction Documents

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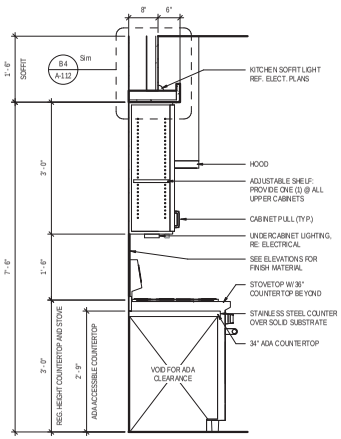

C1 KITCHEN CASEWORK AT WORK SURFACE

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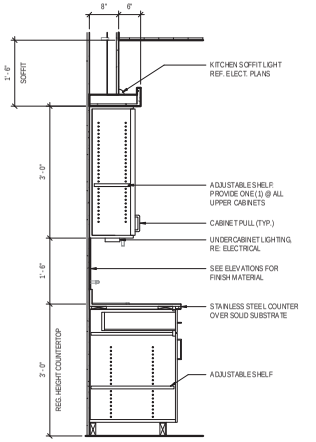

C2 KITCHEN CASEWORK SECTION

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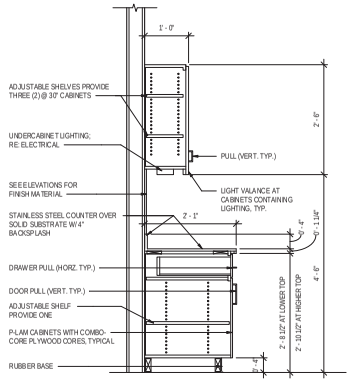

C3 CASEWORK SECTION AT CLEAN LAUNDRY

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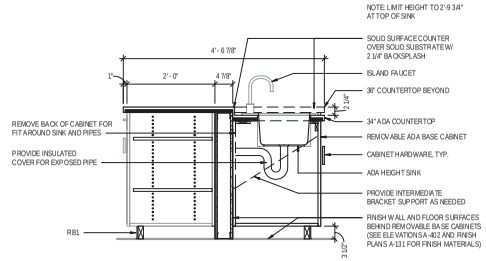
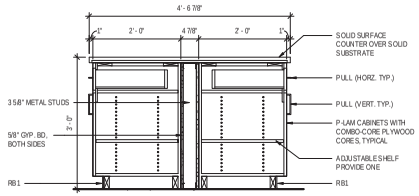


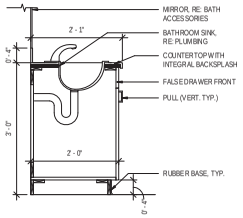
C4 ISLAND SINK DETAIL W/ REMOVABLE KITCHEN BASE CABINET

SCALE: 3/4" = 1'-0"



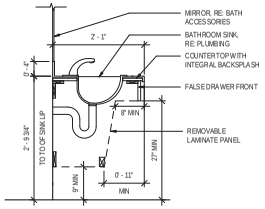
B1 KITCHEN ISLAND DETAIL

SCALE: 3/4" = 1'-0"



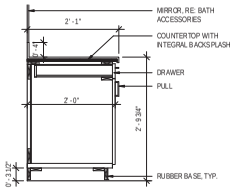
B2 BATHROOM CABINET W/ SINK

SCALE: 3/4" = 1'-0"



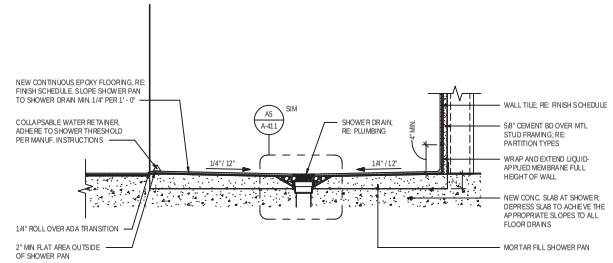
B4 ACCESSIBLE BATHROOM CABINET SECTION W/ SINK

SCALE: 3/4" = 1'-0"



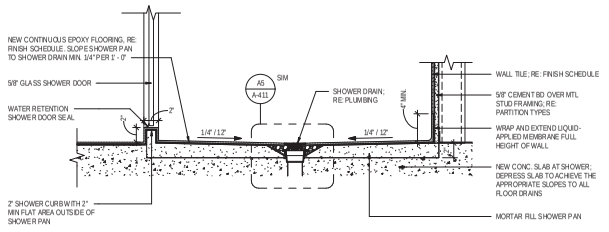
B5 ACCESSIBLE BATHROOM CABINET SECTION

SCALE: 3/4" = 1'-0"



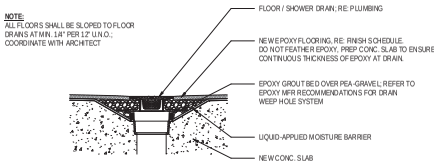
A1 SECTION AT ADA SHOWER PAN

SCALE: 1 1/2" = 1'-0"



A3 SECTION AT TYP. SHOWER PAN

SCALE: 1 1/2" = 1'-0"



A5 TYP. FLOOR / SHOWER DRAIN AT EPOXY

SCALE: 3" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
INTERIOR MILLWORK SECTIONS AND DETAILS

SHEET ID:
A-411

PROJECT STATUS:
Construction Documents

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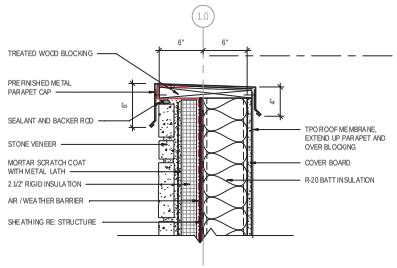
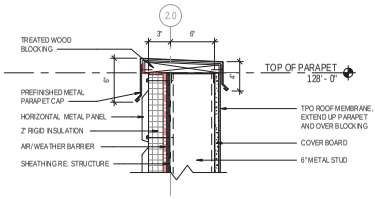


D1 STONE VENEER WALL - PARAPET

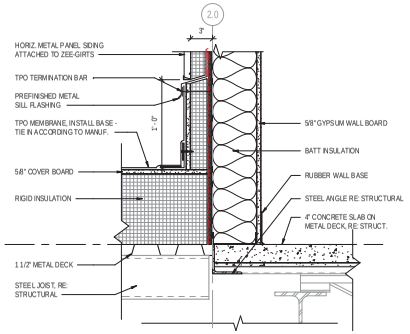
SCALE: 1 1/2" = 1'-0"



D2 PARAPET ROOF AT METAL PANEL WALL

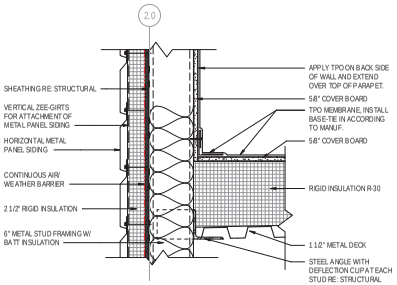
SCALE: 1 1/2" = 1'-0"

2ND FLOOR 112' - 0"



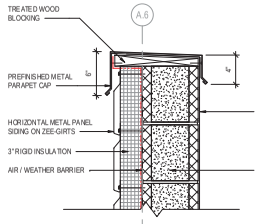
D3 WALL TO ROOF

SCALE: 1 1/2" = 1'-0"



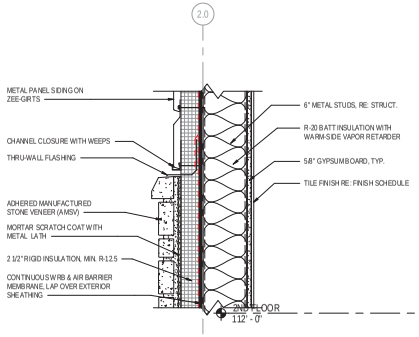
C2 PARAPET WALL TO ROOF

SCALE: 1 1/2" = 1'-0"



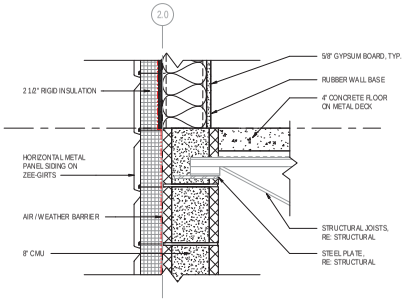
C3 CMU PARAPET WALL

SCALE: 1 1/2" = 1'-0"



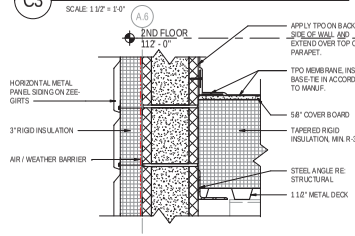
B1 METAL PANEL TO STONE VENEER

SCALE: 1 1/2" = 1'-0"



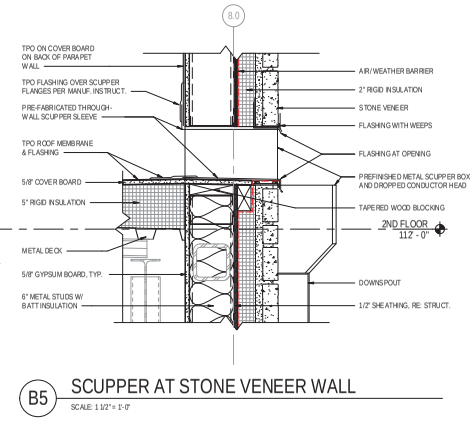
B2 CMU TO STUD

SCALE: 1 1/2" = 1'-0"



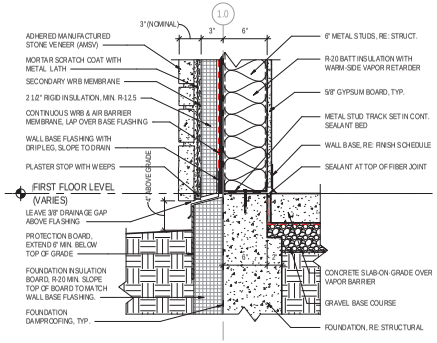
B3 CMU PARAPET WALL TO ROOF

SCALE: 1 1/2" = 1'-0"



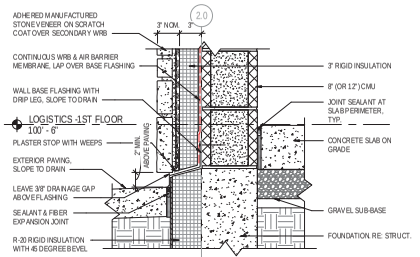
B5 SCUPPER AT STONE VENEER WALL

SCALE: 1 1/2" = 1'-0"



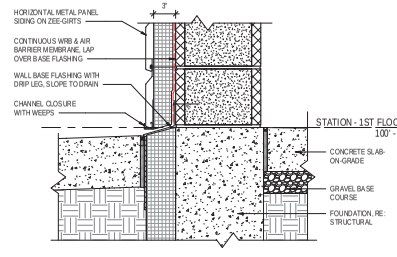
A1 TYPICAL WALL BASE

SCALE: 1 1/2" = 1'-0"



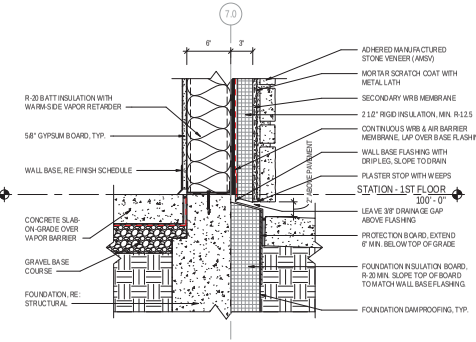
A2 CMU WALL BASE AT PAVEMENT

SCALE: 1 1/2" = 1'-0"



A3 METAL PANEL AND CMU AT FOUNDATION

SCALE: 1 1/2" = 1'-0"



A5 STONE VENEER WALL AT FOUNDATION

SCALE: 1 1/2" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
A-500

PROJECT STATUS:
Construction Documents

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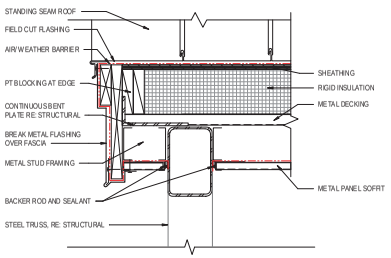
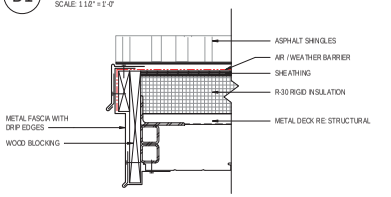


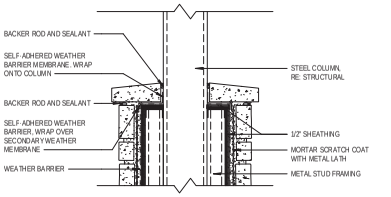
D1 STANDING SEAM ROOF EAVE AT GABLE

SCALE: 1 1/2" = 1'-0"



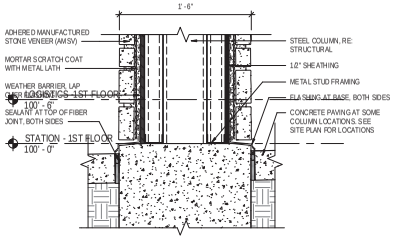
C1 UPPER ROOF EAVE AT GABLE

SCALE: 1 1/2" = 1'-0"



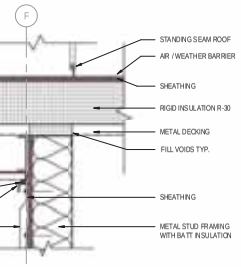
B1 TOP OF ENTRANCE COLUMN

SCALE: 1 1/2" = 1'-0"



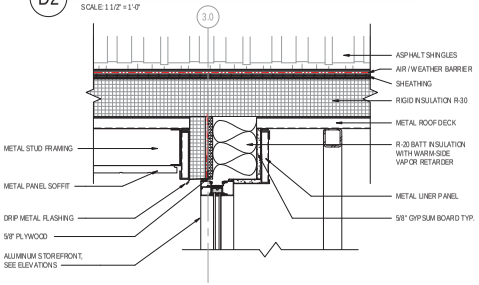
A1 FOUNDATION AT ENTRANCE COLUMN

SCALE: 1 1/2" = 1'-0"



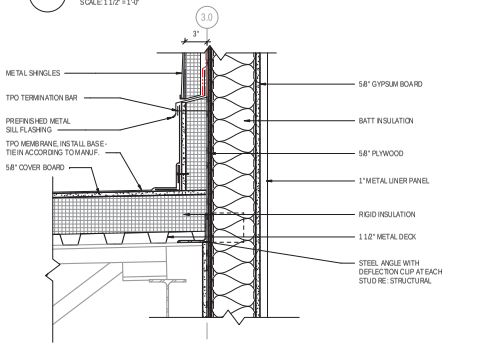
D2 ENTRANCE GABLE WALL TO ROOF

SCALE: 1 1/2" = 1'-0"



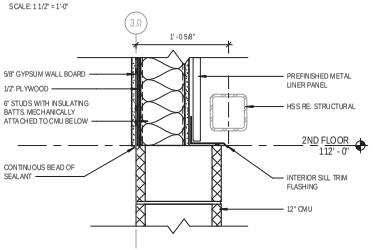
C2 WALL TO ROOF SOFFIT

SCALE: 1 1/2" = 1'-0"



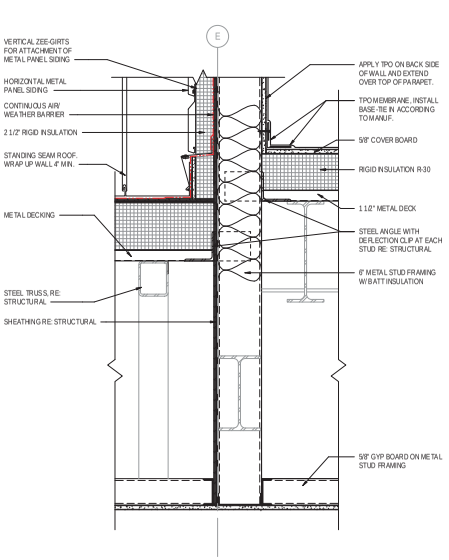
B2 METAL PANEL WALL TO ROOF

SCALE: 1 1/2" = 1'-0"



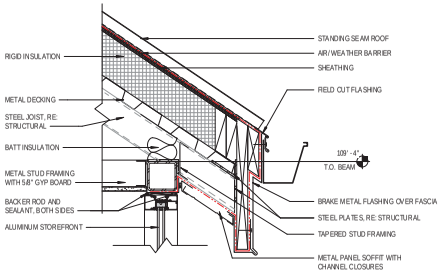
A2 CMU TO STUD WALL - WALL

SCALE: 1 1/2" = 1'-0"



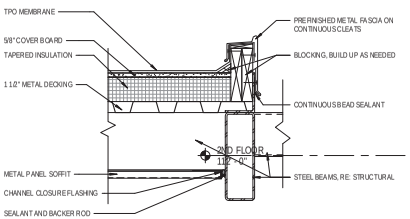
C4 SS ROOF TO METAL PANEL WALL

SCALE: 1 1/2" = 1'-0"



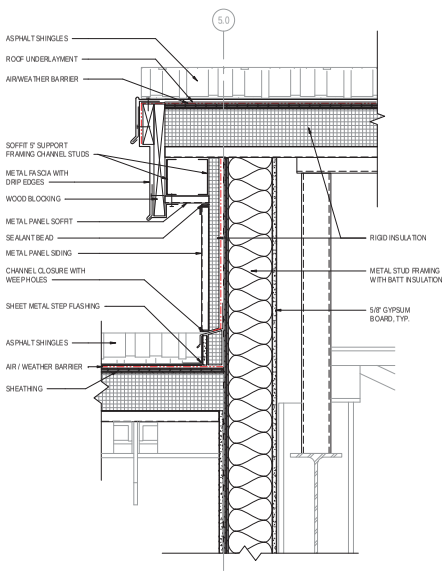
B4 STANDING SEAM EAVE

SCALE: 1 1/2" = 1'-0"



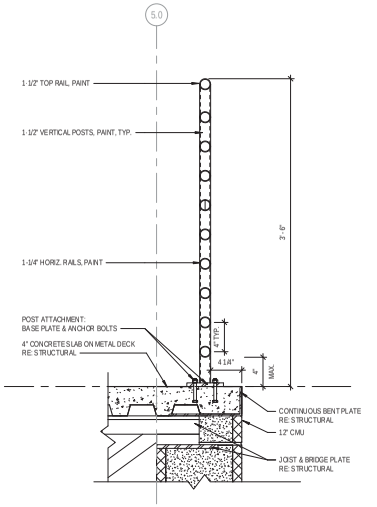
A4 FLAT ROOF AT PERGOLA

SCALE: 1 1/2" = 1'-0"



C5 UPPER TO LOWER ROOF AT GABLE

SCALE: 1 1/2" = 1'-0"



A5 METAL RAILING

SCALE: 1 1/2" = 1'-0"

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CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
A-501

PROJECT STATUS:
Construction Documents

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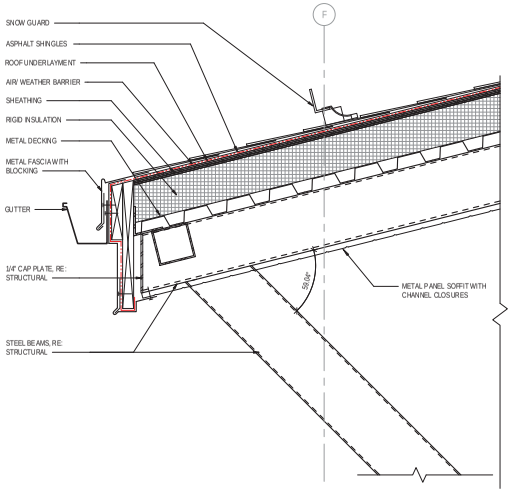
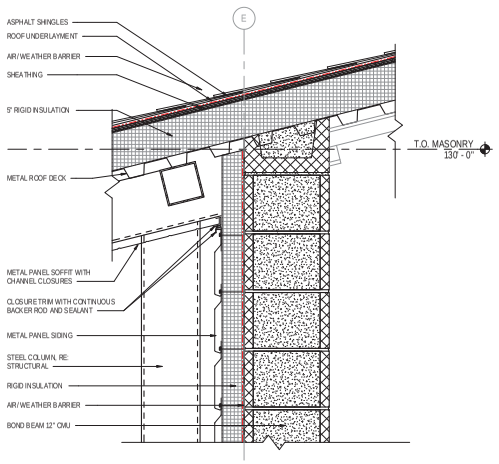


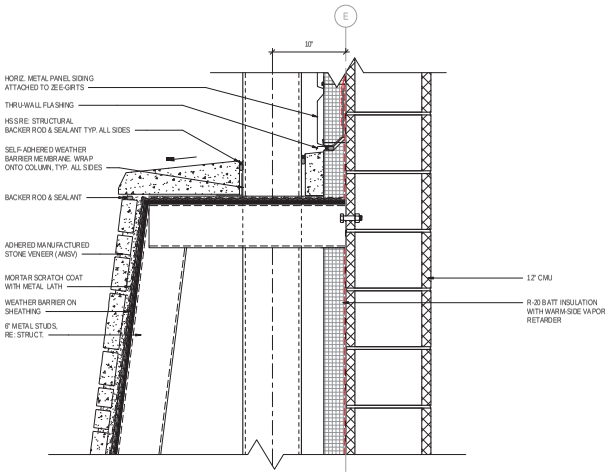
C1 UPPER ROOF EAVE - DETAIL

SCALE: 1 1/2" = 1'-0"



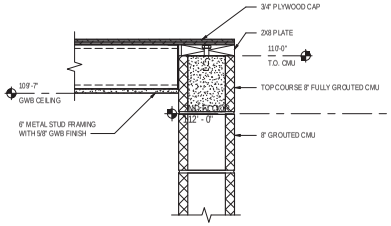
C2 CMU WALL TO ASPHALT SHINGLE ROOF - DETAIL

SCALE: 1 1/2" = 1'-0"



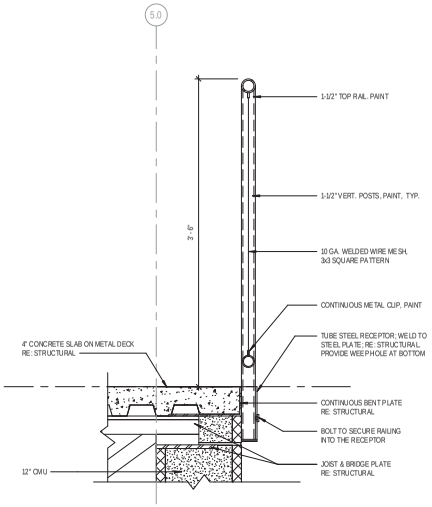
C4 UPPER PORTION OF COLUMN DETAIL

SCALE: 1 1/2" = 1'-0"



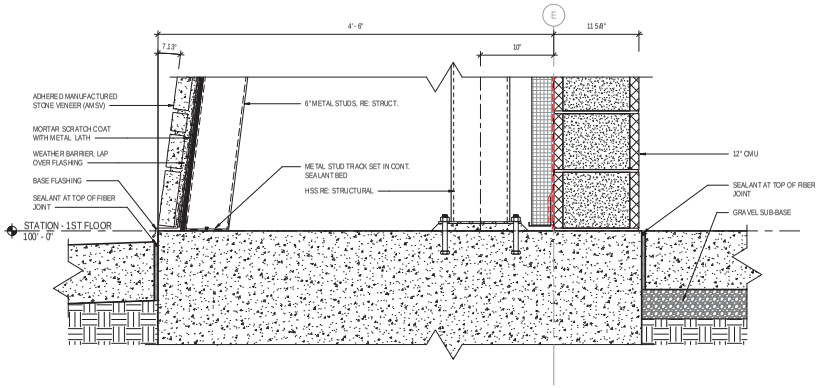
A1 CMU WALL TO STUD FRAMED CEILING

SCALE: 1 1/2" = 1'-0"



A2 REMOVABLE WIRE MESH RAILING

SCALE: 1 1/2" = 1'-0"



A4 FOUNDATION AT CAST-STONE PILASTER - DETAIL

SCALE: 1 1/2" = 1'-0"

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DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
A-502

PROJECT STATUS:
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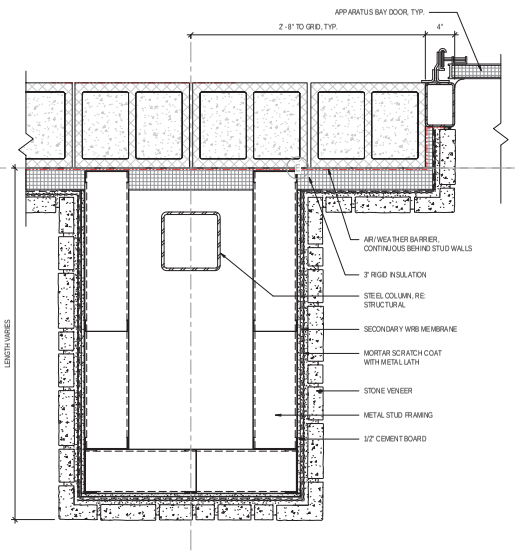
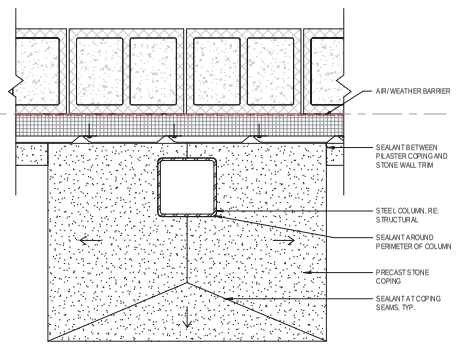
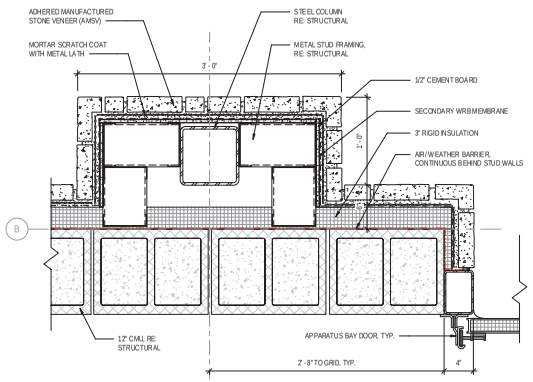


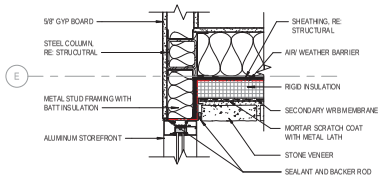
C1 ANGLED PILASTER - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



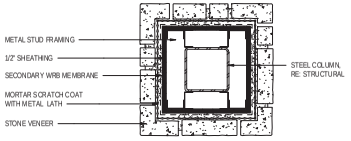
C3 COPING AT PILASTER
SCALE: 1 1/2" = 1'-0"



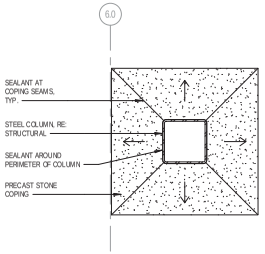
C4 FLAT PILASTER
SCALE: 1 1/2" = 1'-0"



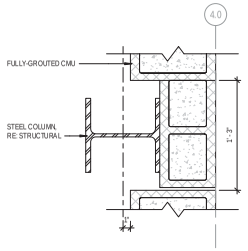
B1 STOREFRONT JAMB AT ENTRANCE
SCALE: 1 1/2" = 1'-0"



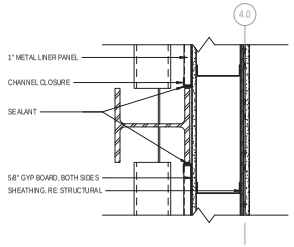
B2 ENTRANCE COLUMN
SCALE: 1 1/2" = 1'-0"



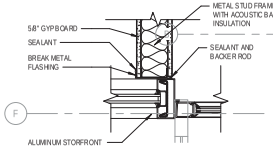
B3 COPING AT ENTRANCE COLUMN
SCALE: 1 1/2" = 1'-0"



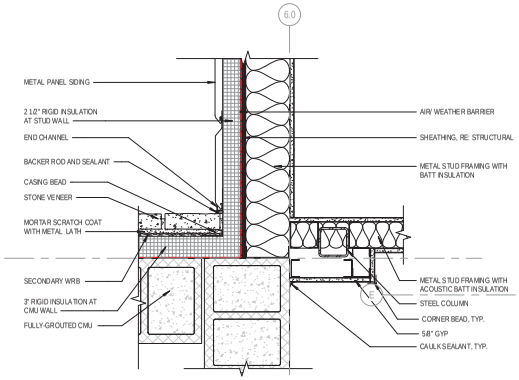
B4 CMU TO STEEL COLUMN
SCALE: 1 1/2" = 1'-0"



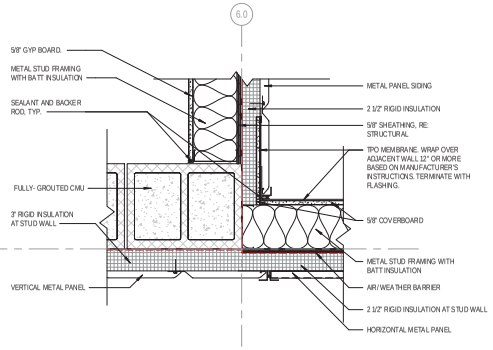
B5 STEEL FRAMING TO STUD WALL
SCALE: 1 1/2" = 1'-0"



A1 STUD WALL TO STOREFRONT
SCALE: 1 1/2" = 1'-0"



A2 CMU TO METAL STUD AT CORNER - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



A4 CMU TO STUD WALLS AT CORNER
SCALE: 1 1/2" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7093
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	TL
DRAWN BY:	MD
DESIGNED BY:	TL
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
A-503

PROJECT STATUS:
Construction Documents

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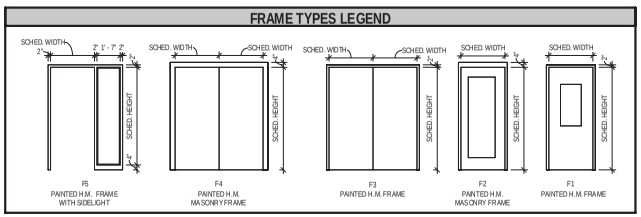
1/29/2026 12:04:21 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/16322_Castle Rock Fire 156 and Fleet_A_R24.rvt

DOOR AND FRAME GENERAL NOTES

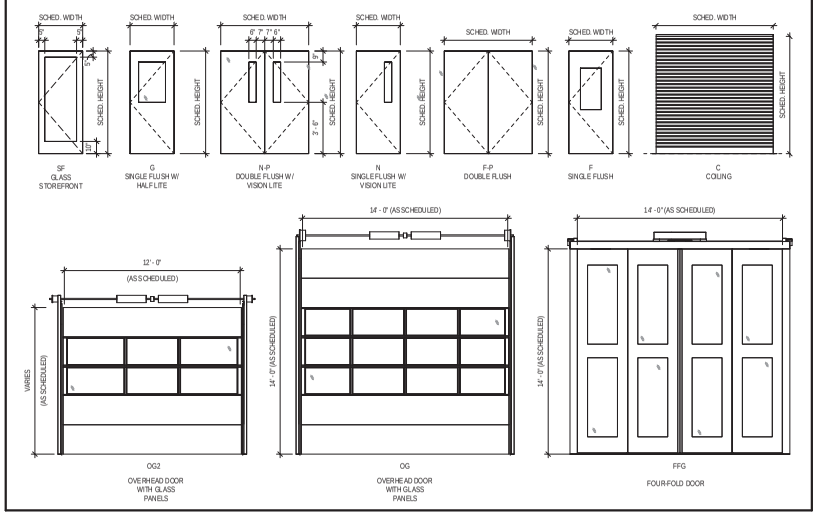
1. PROVIDE CAULK / SEALANT ON BOTH SIDES OF FRAMES, TYPICAL.
2. PROVIDE TEMPERED GLAZING AT ALL STOREFRONT DOORS, AT NEW GLAZING WITHIN 24" HORIZONTALLY FROM A DOOR, WHERE NEW GLAZING LITE IS WITHIN 18" A.F.F.
3. FIELD VERIFY ALL CONDITIONS PRIOR TO ORDERING DOORS, HARDWARE, OR ACCESS CONTROLS, TYPICAL.
4. COORDINATE THRESHOLDS WITH NEW / EXISTING FLOOR FINISHES
5. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DOOR SCHEDULE AND PLAN AND/OR EXISTING CONDITIONS.
6. ENTIRE DOOR ASSEMBLIES TO MAINTAIN RATINGS AS SCHEDULED AND SHOWN ON THE LIFE SAFETY SHEETS. PROVIDE HARDWARE FOR RATED ASSEMBLIES TO MEET ALL APPLICABLE CODES TO INCLUDE BUT NOT LIMITED TO CLOSERS, PANIC DEVICES, CAULK / SEALANT, SWEEPS, SMOKE SEALS, ETC.
7. SET ALL THRESHOLDS IN EXTERIOR DOORS IN FULL BED OF SEALANT.
8. ALL EXTERIOR DOORS TO MEET WATER TIGHT CONDITION INCLUDING ALL WATERPROOF THRESHOLDS. BUMPER SEALS REQUIRED AT ALL EXTERIOR DOORS U.N.O.
9. SEE DOOR HARDWARE SPECIFICATION FOR DOOR HARDWARE.
10. COORDINATE ALL DOOR HARDWARE WITH A ACCESS CONTROL AND FIRE ALARM SYSTEM AS REQUIRED.
11. SEE WINDOW SCHEDULE FOR STOREFRONT FRAME ELEVATIONS AND DIMENSIONS.

DOOR NO.	FROM ROOM: NAME	DOOR INFORMATION						FRAME INFORMATION					FIRE RATING	HARDWARE SET	COMMENTS
		DOOR DIMENSIONS			TYPE	MATERIALS		FRAME		DETAILS					
		WIDTH	HEIGHT	THICKNESS		MATERIAL	FINISH	TYPE	MATERIAL	HEAD	JAMB	SILL			
STATION - 1ST FLOOR															
100A	FIRE LOBBY	3' - 0"	7' - 0"	1 3/4"	SF	AL/GL	-	SF1	ALUM	-	-	A1/A-610	-	01	PASSAGE SET, EXIT HARDWARE
100B	FIRE LOBBY	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	02	STORAGE SET, ACCESS CONTROL, EXIT HARDWARE
101	FIRE STATION APPARATUS BAYS	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	03	PASSAGE SET
103	TRAINING	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	04	PASSAGE SET
104	HISTORY	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	12	STORAGE SET
106	DINING / DAYROOM	3' - 0"	7' - 0"	1 3/4"	SF	AL/GL	PT	SF3	ALUM	-	-	-	-	05	STORAGE SET, ACCESS CONTROL
108A	HALL	3' - 0"	7' - 4"	1 3/4"	SF	AL/GL	PT	F1	ALUM	-	-	-	-	05	STORAGE SET, ACCESS CONTROL
108B	HALL	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F1	HM	C1A-610	B1A-610	-	-	07	PASSAGE SET
109	OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F5	HM	C1A-610	B1/A-610	-	-	04	PASSAGE SET
110A	ADA BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	08	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
110B	ADA BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	09	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
111	BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	10	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
112	BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	10	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
113	BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	10	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
114	BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	10	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
115	BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	10	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
116	BUNK	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	A5A-610	-	-	20 MIN.	10	PRIVACY LOCKSET, AUTOMATIC DOOR BOTTOM
117	LAUNDRY	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	04	PASSAGE SET
118	BATH	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
119	BATH	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
120A	AIRLOCK	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	03	PASSAGE SET, EXIT HARDWARE & GASKETING
120B	AIRLOCK	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F5	HM	C1A-610	B1/A-610	-	-	03	PASSAGE SET, EXIT HARDWARE & GASKETING
121	DECON SHOWER	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
122	DECON SHOWER	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
123	MECH	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	14	STORE ROOM LOCKSET, GASKETING, ACCESS CONTROL
124A	COMM	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	14	STORE ROOM LOCKSET, ACCESS CONTROL
124B	COMM	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	14	STORE ROOM LOCKSET, ACCESS CONTROL
125	ELEC	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	14	STORE ROOM LOCKSET, ACCESS CONTROL
126	BATH	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
127	ADA BATH	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
128A	AIRLOCK	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	03	PASSAGE SET, GASKETING, EXIT HARDWARE
128B	AIRLOCK	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F5	HM	C1A-610	B1A-610	-	-	13	PASSAGE SET, GASKETING, EXIT HARDWARE
130A	FIRE STATION APPARATUS BAYS	14' - 0"	14' - 0"	2"	FRG	STL	PT	-	STL	C3A-611	A3A-611	-	-	17	
130B	FIRE STATION APPARATUS BAYS	14' - 0"	14' - 0"	2"	FRG	STL	PT	-	STL	C3A-611	A3A-611	-	-	17	
130C	FIRE STATION APPARATUS BAYS	14' - 0"	14' - 0"	2"	FRG	STL	PT	-	STL	C3A-611	A3A-611	-	-	17	
130D	FIRE STATION APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-610	A1/A-611	-	-	17	
130E	FIRE STATION APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1/A-611	-	-	17	
130F	FIRE STATION APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1A-611	-	-	17	
131A	GARAGE	12' - 0"	10' - 0"	2"	OG2	HM	PT	-	MTL	C2A-610	B2/A-610	A2/A-610	-	17	
131B	GARAGE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B3/A-610	A3/A-610	-	06	STORAGE SET, ACCESS CONTROL
131C	GARAGE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	18	STORAGE SET, ACCESS CONTROL
132	WATER ENTRY & RDC	3' - 0"	7' - 0"	1 3/4"	F	MTL	PAINT	F1	MTL	C2A-610	B2/A-611	A2/A-610	-	19	STORAGE SET, ACCESS CONTROL
133	SHOP AIR & SCBA	6' - 0"	7' - 0"	1 3/4"	F-P	HM	PT	F4	HM	C2A-610	B2A-610	A2/A-610	-	20	PASSAGE SET W/ GASKETING
134	SHOP AIR & SCBA	3' - 8"	7' - 0"	1 3/4"	N	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	21	PASSAGE SET W/ GASKETING
136	BUNKER GEAR	3' - 8"	7' - 0"	1 3/4"	N	HM	PT	F2	HM	C2A-610	B2A-610	A2/A-610	-	21	PASSAGE SET W/ GASKETING
137A	FITNESS	12' - 0"	10' - 0"	2"	OG2	STL	PT	-	STL	C5A-611	A5A-611	-	-	17	
137B	FITNESS	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B3/A-610	A3/A-610	-	19	STORAGE SET, ACCESS CONTROL
137C	FITNESS	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2/A-610	A2/A-610	-	26	PASSAGE SET W/ GASKETING
138A	ELEC	4' - 4"	8' - 0"	1 3/4"	F-P	HM	PT	F4	HM	C2A-610	B2A-610	A2/A-610	-	22	STORE ROOM LOCKSET W/ GASKETING
138B	ELEC	4' - 4"	8' - 0"	1 3/4"	F-P	HM	PT	F4	HM	C2A-610	B2A-610	A1/A-610	-	22	STORE ROOM LOCKSET W/ GASKETING
140A	LOGISTICS APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1/A-611	-	-	17	
140B	LOGISTICS APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1/A-611	-	-	17	
140C	LOGISTICS APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1A-611	-	-	17	
140D	LOGISTICS APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1A-611	-	-	17	
140E	LOGISTICS APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1/A-611	-	-	17	
140F	LOGISTICS APPARATUS BAYS	14' - 0"	14' - 0"	2"	OG	STL	PT	-	STL	C1A-611	A1/A-611	-	-	17	
160	PARTS	6' - 4"	7' - 0"	1 3/4"	G-P	HM	PT	F4	HM	C2A-610	B2/A-610	A2/A-610	-	25	PASSAGE SET
163A	SHOP & UPFIT	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F2	HM	C5A-610	B5/A-610	-	-	19	STORAGE SET, ACCESS CONTROL
163C	SHOP & UPFIT	6' - 4"	7' - 0"	1 3/4"	G-P	HM	PT	F4	HM	C2A-610	B2/A-610	A2/A-610	-	20	PASSAGE SET
LOGISTICS - 1ST FLOOR															
140G	LOGISTICS APPARATUS BAYS	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F2	HM	C3A-610	B3A-610	A3/A-610	-	06	STORAGE SET, ACCESS CONTROL
140H	LOGISTICS APPARATUS BAYS	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F2	HM	C5A-610	B3A-610	A3/A-610	-	06	STORAGE SET, ACCESS CONTROL
150A	LOGISTICS LOBBY	3' - 0"	7' - 0"	1 3/4"	SF	AL/GL	-	SF4	ALUM	-	-	A1/A-610	-	05	STORAGE SET, ACCESS CONTROL
150B	LOGISTICS LOBBY	3' - 0"	7' - 0"	1 3/4"	SF	AL/GL		SF6	ALUM			A1/A-610	-	23	STORAGE SET, ACCESS CONTROL
151	ADMIN	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F5	HM	C1A-610	B1/A-610	-	-	16	OFFICE SET
152	OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	16	OFFICE SET
153	OPEN OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2A-610	-	-	28	PASSAGE SET W/ GASKETING
153A	COMM	5' - 0"	7' - 0"	1 3/4"	F-P	HM	PT	F3	HM	C1A-610	B1/A-610	-	-	30	STORE ROOM LOCKSET, ACCESS CONTROL
154	OPEN OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	16	OFFICE SET
155A	BREAK	3' - 0"	7' - 0"	1 3/4"	SF	AL/GL	-	SF7	ALUM	-	-	A1/A-610	-	24	STORAGE SET, ACCESS CONTROL
155B	BREAK	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	F2	HM	C2A-610	B2A-610	-	-	28	PASSAGE SET W/ GASKETING
156	STAFF LOCKER	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
157	STAFF LOCKER	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	25	PUSH PULL SET
158	STAFF LOCKER	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	11	PRIVACY LOCKSET W/ INDICATOR
159	JANITOR	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	15	PASSAGE SET
161	BUUX FLUID	8' - 0"	9' - 7"	1"	OG2	STL	PT	-	STL	C5A-611	A5A-611	-	-	17	ELECTRIC DOOR OPERATOR W/ MANUAL PUSH BUTTON
161B	BUUX FLUID	3' - 0"	7' - 0"	1 3/4"	N	HM	PT	F2	HM	C2A-610	B2A-610	-	-	27	PASSAGE SET
163D	SHOP & UPFIT	12' - 0"	9' - 0"	2"		STL	PT	-	STL	C5A-611	A5A-611	A1/A-610	-	17	
2ND FLOOR															
201A	MECH.	6' - 0"	7' - 0"	1 3/4"	F-P	HM	PT	F3	HM	C1A-610	B1/A-610	-	-	31	STOREROOM LOCKSET W/ GASKETING
201B	MECH.	6' - 0"	7' - 0"	1 3/4"	F-P	HM	PT	F3	HM	C1A-610	B1/A-610	-	-	31	STOREROOM LOCKSET W/ GASKETING
202A	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1/A-610	-	-	14	STOREROOM LOCKSET W/ GASKETING & ACCESS CONTROL
202B	OPEN STORAGE	6' - 0"	7' - 0"	1 3/4"	F-P	HM	PT	F3	HM	C1A-610	B1/A-610	-	-	29	STOREROOM LOCKSET W/ GASKETING
203	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	F1	HM	C1A-610	B1A-610	-	-	14	ACCESS CONTROL
204	STORAGE	6' - 0"	7' - 0"	1 3/4"	F-P	HM	PT	F3	HM	C1A-611	B1A-610	-	-	29	STORE ROOM LOCKSET W/ GASKETING

FRAME TYPES LEGEND



DOOR TYPES LEGEND



RS&H
102 East Moreno Avenue
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719-473-7093
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01.29.2026

DATE ISSUED: 11.21.2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

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SEAL:

SHEET TITLE:
DOOR SCHEDULE, DOOR TYPES, AND NOTES

SHEET ID:
A-600

PROJECT STATUS:
Construction Documents

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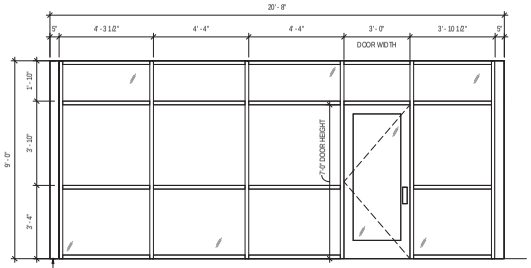
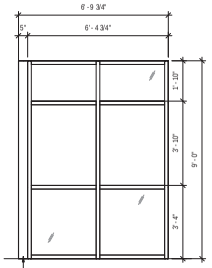


STRUCTURAL COLUMN AT BOTH CORNERS OF STOREFRONT. PROVIDE BRAKE METAL COVER TO MATCH MULLIONS.

SF1

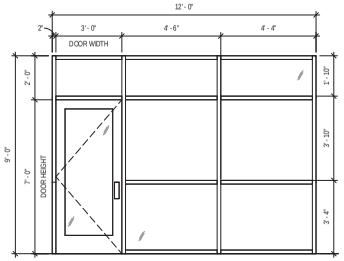
EXTERIOR ALUMINUM STOREFRONT AT FIRE STATION ENTRANCE



STRUCTURAL COLUMN AT CORNER OF STOREFRONT. PROVIDE BRAKE METAL COVER TO MATCH MULLIONS.

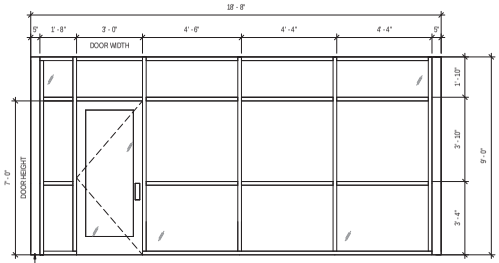
SF2

EXTERIOR ALUMINUM STOREFRONT AT FIRE STATION ENTRANCE



SF3

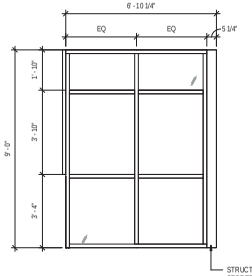
EXTERIOR ALUMINUM STOREFRONT AT FIRE STATION PATIO



STRUCTURAL COLUMN AT BOTH CORNERS OF STOREFRONT. PROVIDE BRAKE METAL COVER TO MATCH MULLIONS.

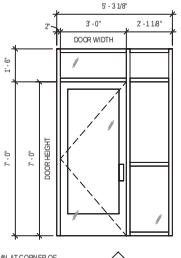
SF4

EXTERIOR ALUMINUM STOREFRONT AT LOGISTICS ENTRANCE



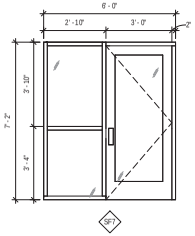
STRUCTURAL COLUMN AT CORNER OF STOREFRONT. PROVIDE BRAKE METAL COVER TO MATCH MULLIONS.

EXTERIOR ALUMINUM STOREFRONT



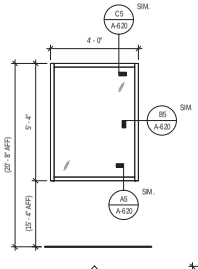
SF6

INTERIOR ALUMINUM STOREFRONT



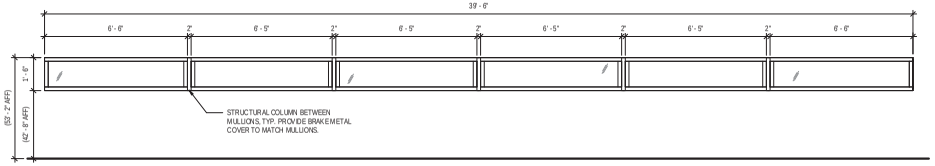
SF7

EXTERIOR ALUMINUM STOREFRONT AT LOGISTICS BREAK ROOM



SF8

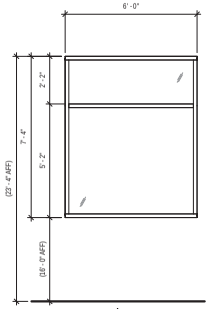
EXTERIOR ALUMINUM STOREFRONT AT LOGISTICS MEZZANINE



STRUCTURAL COLUMN BETWEEN MULLIONS, TYP. PROVIDE BRAKE METAL COVER TO MATCH MULLIONS.

SF13

EXTERIOR ALUMINUM STOREFRONT AT APPARATUS BAY CLERESTORY



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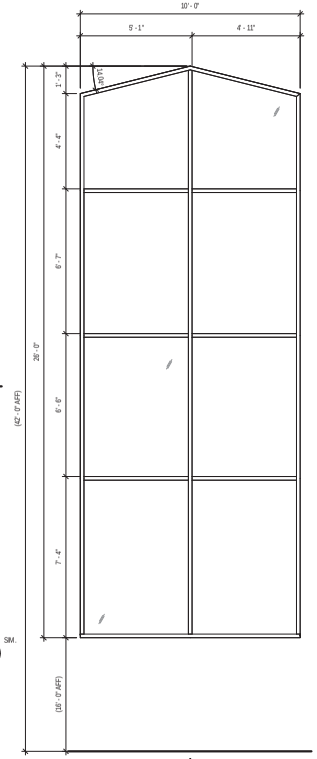
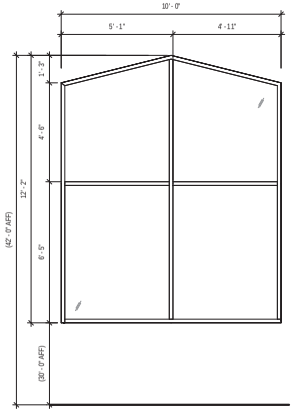
EXTERIOR ALUMINUM STOREFRONT AT FIRE STATION APPARATUS BAY



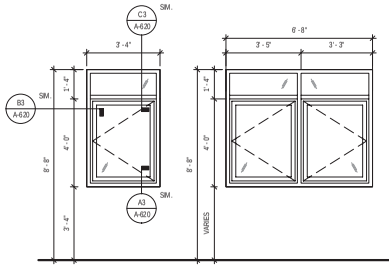
SF12

EXTERIOR ALUMINUM STOREFRONT AT FIRE STATION APPARATUS BAY



SF12

EXTERIOR ALUMINUM STOREFRONT AT LOGISTICS APPARATUS BAY

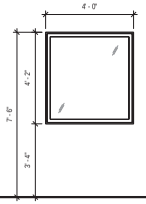


A

ALUMINUM OUTSWING CASEMENT WINDOW WITH FIXED TRANSOM

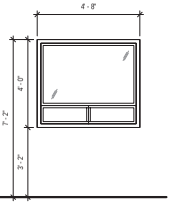
B

DOUBLE ALUMINUM OUTSWING CASEMENT WINDOW WITH FIXED TRANSOM



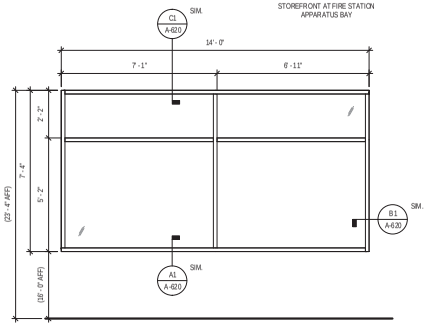
C

INTERIOR ALUMINUM FIXED WINDOW AT FIRE STATION KITCHEN



D

INTERIOR ALUMINUM FIXED WINDOW WITH PASS-THROUGH AT LOGISTICS LOBBY



SF9

EXTERIOR STOREFRONT AT APPARATUS BAY DOORS

NOTES:
ALUMINUM WINDOWS BASIS OF DESIGN IS: KAWNEER OPTIQ AA 4325 SERIES.
U-VALUE: 0.32
SHGC VALUE: 0.40
THERMALLY BROKEN FRAMES, DOUBLE PANE GLASS & LOW-E GLAZING. CASEMENT WINDOW HARDWARE SHALL CONSIST OF ROTO OPERATORS WITH MULTI-POINT LOCKS AND INSECT SCREENS.

STOREFRONT BASIS OF DESIGN IS: KAWNEER TRIFAB® VERSAGLAZE® 451UT ULTRA-THERMAL FRAMING SYSTEM.
U-VALUE: 0.45 (OPERABLE) AND 0.36 (FIXED)
SHGC VALUE: 0.33 (OPERABLE) AND 0.38 (FIXED)
THERMALLY BROKEN FRAMES, DOUBLE PANE GLASS & LOW-E GLAZING

STOREFRONT ENTRANCE DOOR BASIS OF DESIGN IS: KAWNEER 500 INSULCLAD THERMAL ENTRANCE.
U-VALUE: 0.63
SHGC VALUE: 0.33
THERMALLY BROKEN FRAMES, DOUBLE PANE GLASS & LOW-E GLAZING

WINDOW TYPE A MEETS EMERGENCY ESCAPE AND RESCUE OPENING REQUIREMENTS PER SECTION 1030.1:
1) MINIMUM NET CLEAR OPENING AREA: 5.7 SQ. FT. OR 5.0 SQ. FT. AT GRADE FLOOR OR BELOW GRADE
2) MINIMUM NET CLEAR OPENING HEIGHT: 24"
3) MINIMUM NET CLEAR OPENING WIDTH: 20"
4) MAXIMUM SILL HEIGHT: 44"

PROVIDE TEMPERED GLASS IN ALL LOCATIONS REQUIRED BY CODE

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
WINDOW TYPES AND NOTES

SHEET ID:
A-601

PROJECT STATUS:
Construction Documents

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

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SEAL:

SHEET TITLE:
FF&E SPREADSHEET

SHEET ID:
A-602

PROJECT STATUS:
Construction Documents

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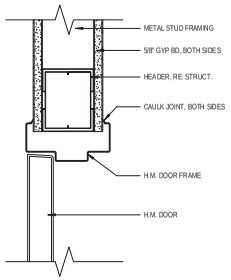
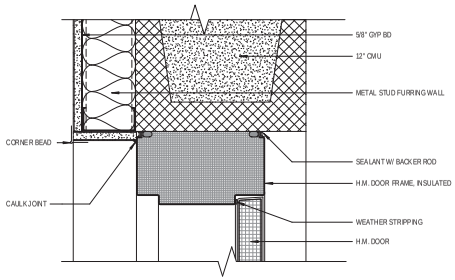


C1 H.M. HEADER DETAIL
SCALE: 3" = 1'-0"



C2 H.M. DOOR CMU HEADER DETAIL
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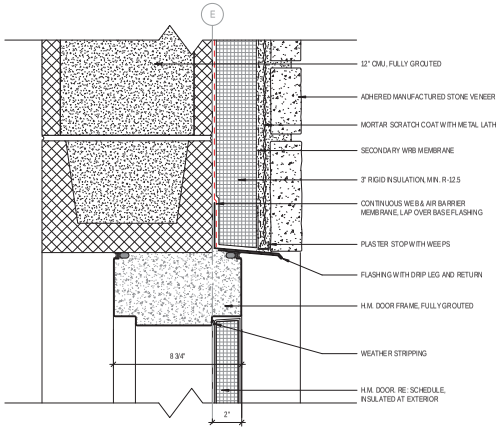
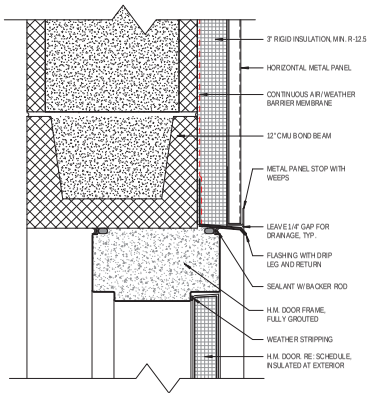
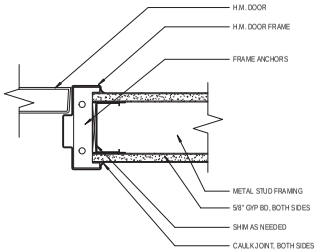


C3 STONE VENEER AT CMU - HEADER DETAIL
SCALE: 3" = 1'-0"



C5 HORIZONTAL METAL PANEL - HEADER DETAIL
SCALE: 3" = 1'-0"



B1 H.M. DOOR JAMB DETAIL
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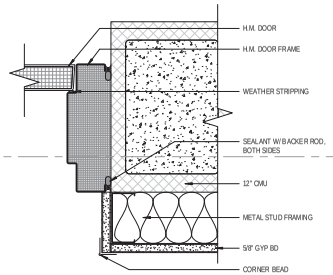

B2 H.M. DOOR CMU JAMB DETAIL
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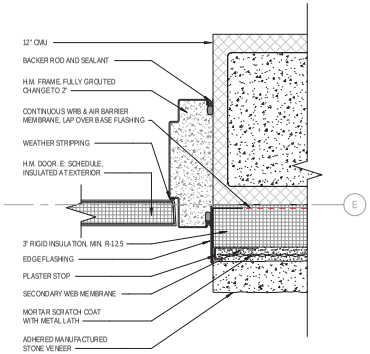
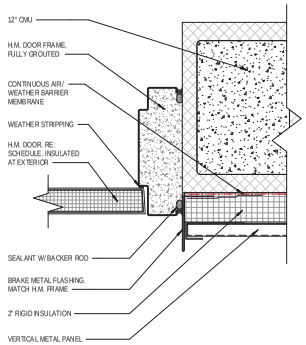


B3 STONE VENEER AT CMU - JAMB DETAIL
SCALE: 3" = 1'-0"



B5 HORIZONTAL METAL PANEL - JAMB DETAIL
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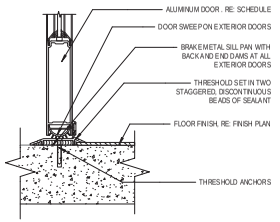

A1 ALUMINUM DOOR SILL
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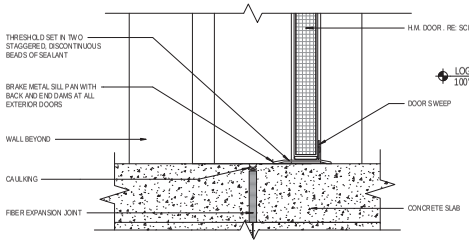
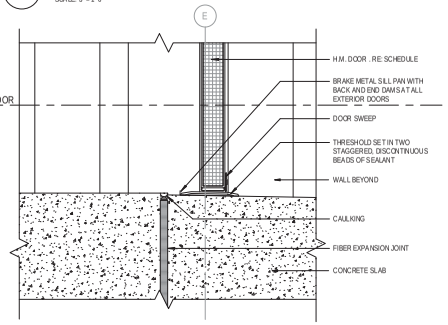


A2 H.M. DOOR CMU SILL
SCALE: 3" = 1'-0"



A3 STONE VENEER AT CMU - SILL DETAIL
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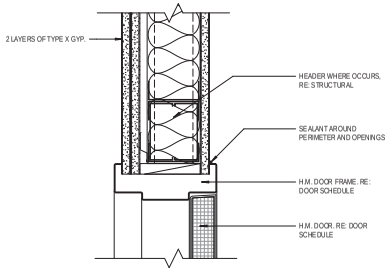

A5 FIRE RATED H.M. DOOR HEADER DETAIL
SCALE: 3" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
DOOR DETAILS

SHEET ID:
A-610

PROJECT STATUS:
Construction Documents

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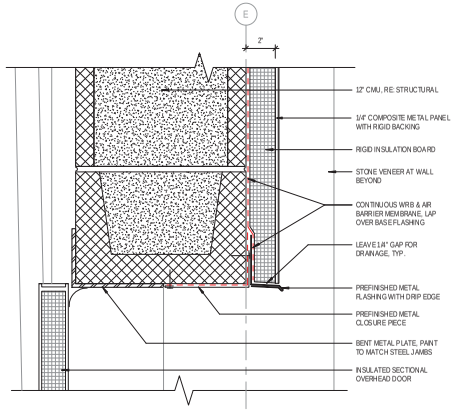

C1 OVERHEAD BAY DOOR - HEADER DETAIL

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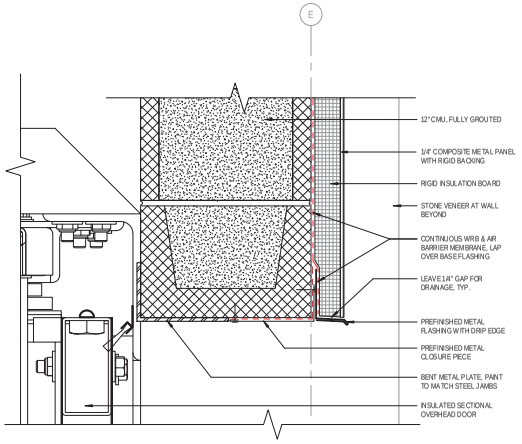

C3 FOUR FOLD BAY DOOR - HEADER DETAIL

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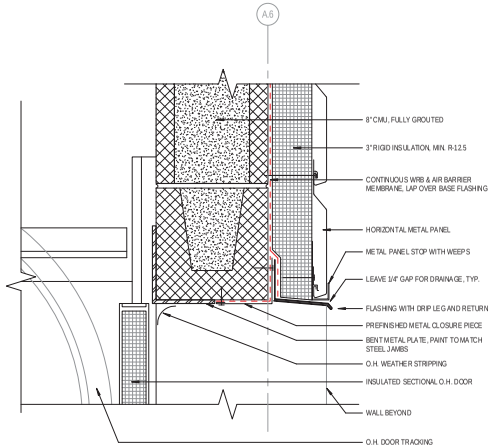
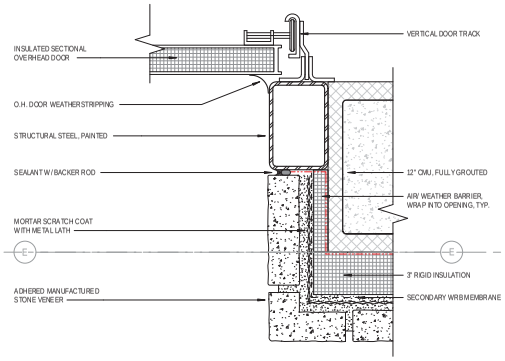


C5 OVERHEAD DOOR - HEADER DETAIL AT METAL PANEL

SCALE: 3" = 1'-0"



A1 OVERHEAD BAY DOOR - JAMB DETAIL

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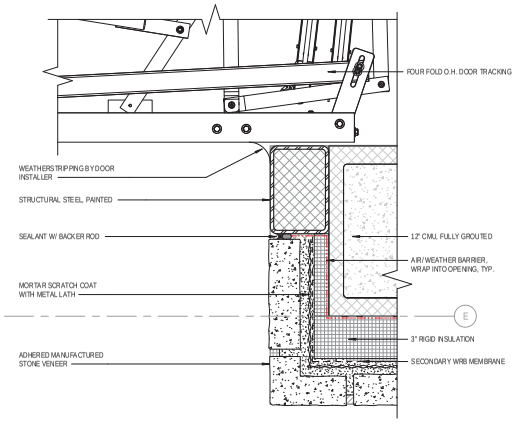

A3 FOUR FOLD BAY DOOR - JAMB DETAIL

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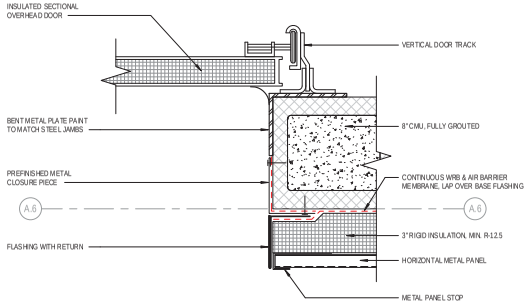

A5 OVERHEAD DOOR - JAMB DETAIL

SCALE: 3" = 1'-0"

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DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
DOOR DETAILS

SHEET ID:
A-611

PROJECT STATUS:
Construction Documents

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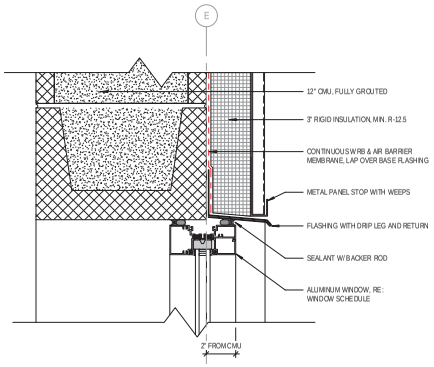
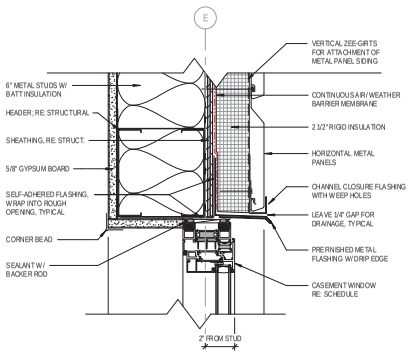


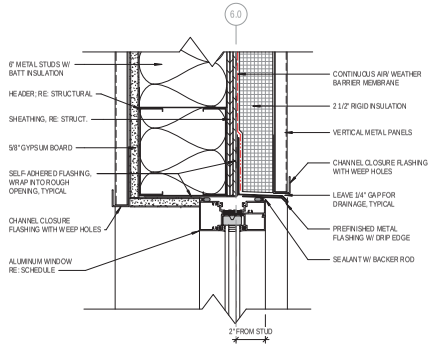
C1 STOREFRONT - VERTICAL METAL PANEL HEADER DETAIL

SCALE: 3" = 1'-0"



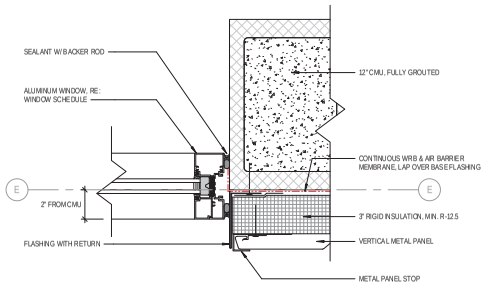
C3 FIXED WINDOW - HORIZONTAL METAL PANELS HEADER DETAIL

SCALE: 3" = 1'-0"



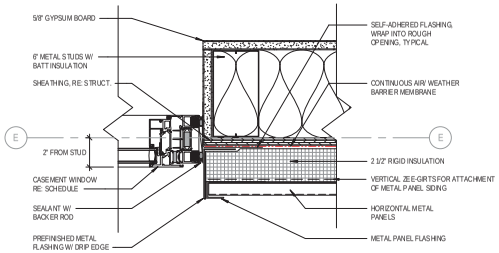
C5 CURTAIN WALL - SHINGLES HEADER DETAIL

SCALE: 3" = 1'-0"



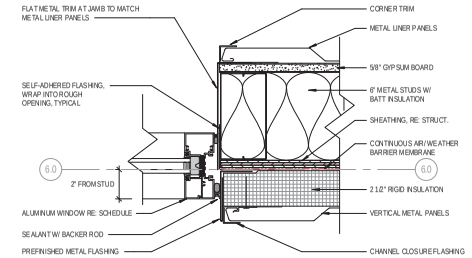
B1 STOREFRONT - VERTICAL METAL PANEL JAMB DETAIL

SCALE: 3" = 1'-0"



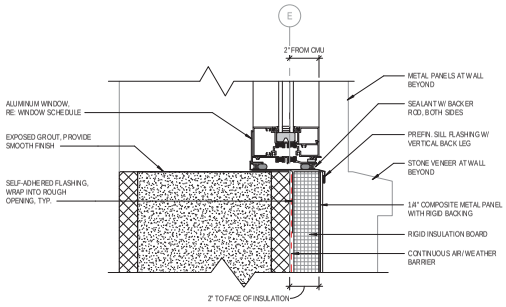
B3 CASEMENT WINDOW - HORIZONTAL METAL PANEL JAMB DETAIL

SCALE: 3" = 1'-0"



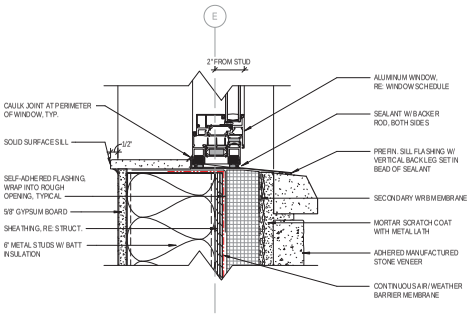
B5 CURTAIN WALL - SHINGLES JAMB DETAIL

SCALE: 3" = 1'-0"



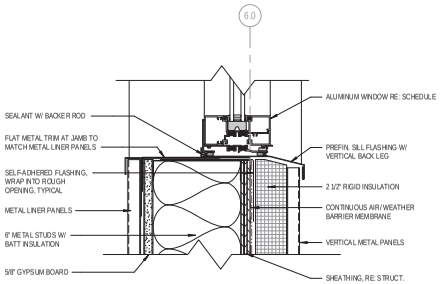
A1 STOREFRONT - SILL DETAIL ABOVE BAY DOORS

SCALE: 3" = 1'-0"



A3 CASEMENT WINDOW - HORIZONTAL METAL PANEL

SCALE: 3" = 1'-0"



A5 CURTAIN WALL - HORIZONTAL METAL PANELS SILL DETAIL

SCALE: 3" = 1'-0"

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Colorado Springs, CO 80903
719-473-7063
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

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SEAL:

SHEET TITLE:
WINDOW DETAILS

SHEET ID:
A-620

PROJECT STATUS:
Construction Documents

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GENERAL NOTES:

DESIGN CRITERIA (1)

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION.
2. DESIGN MINIMUM LOADING CRITERIA:

FLOOR LOADS:

OCCUPANCY OR USE:	LIVE LOADS:	CONCENTRATED LOAD:
LOBBIES, FIRST FLOOR CORRIDORS, STAIRS & EXITS AND ASSEMBLY AREAS	100 p.s.f.	N/A
OFFICES & LIVING QUARTERS	40 p.s.f.	2000 lbs
APPARATUS BAY	SEE LOADING DIAGRAM ON S002	
CORRIDORS ABOVE FIRST FLOOR	80 p.s.f	N/A
LIGHT STORAGE	125 p.s.f.	N/A
MECHANICAL AREAS	150 p.s.f.	2000 lbs

ROOF LOAD:
ROOF LIVE LOAD .... 20 p.s.f. .... 300 lbs

SNOW LOADS:
GROUND SNOW LOAD, P_g .... 45 p.s.f.
FLAT ROOF SNOW LOAD, P_f .... 38 p.s.f.

ROOF SNOW LOAD DATA:
EXPOSURE FACTOR, C_e 1.0
IMPORTANCE FACTOR, I_s 1.2
THERMAL FACTOR, C_t 1.0

SEISMIC LOADS
RISK CATEGORY IV
IMPORTANCE FACTOR, I_e 1.5

MAPPED SPECTRAL RESPONSE ACCELERATIONS (USGS MAPS):
S_S 0.208
S_1 .... 0.057
SITE CLASS .... D
DESIGN SPECTRAL RESPONSE ACCELERATIONS:
S_{DS} 0.222
S_{D1} 0.091
SEISMIC DESIGN CATEGORY C

BASIC SEISMIC FORCE-RESISTING SYSTEM(S): ORDINARY REINFORCED MASONRY SHEAR WALLS

DESIGN BASE SHEAR 134.8k
SEISMIC RESPONSE COEFFICIENT, C_S 0.1664
RESPONSE MODIFICATION FACTOR, R 2.0

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

WIND LOADS:
BASIC WIND SPEED, V_{ULT} .... 120 m.p.h.
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENT, GC_{pi} .... ±0.18

COMPONENTS AND CLADDING WIND PRESSURE (p.s.f.)

TYPE	WIND ZONE	LOAD CASE	EFFECTIVE WIND AREA: LESS THAN 10 FT²	EFFECTIVE WIND AREA: GREATER THAN 100 FT² (ROOFS), 500 FT² (WALLS)
ROOF	1	UPLIFT	69.5	21.7
ROOF	1'	UPLIFT	69.5	21.7
ROOF	2	UPLIFT	101.3	55.7
ROOF	3	UPLIFT	120.4	63.1
ROOF	1 1' 2 3	POSITIVE	22.8	15.3
WALL	4	OUTWARD	40.8	25.9
WALL	5	OUTWARD	50.4	25.9
WALL	4 5	INWARD	37.6	23.3

WIND ZONE DEFINITIONS:
ZONE 1': ROOF AREAS MORE THAN 12.2 FEET FROM EDGES AND CORNERS.
ZONE 1: ROOF AREAS 9.8 FEET TO 12.2 FEET FROM ROOF EDGES.
ZONE 2: ROOF AREAS WITHIN 12.2 FEET OF ROOF EDGES.
ZONE 3: ROOF AREAS WITHIN 12.2 FEET FROM ROOF EDGES AND 12.2 FEET FROM WALL CORNERS.
ZONE 4: WALL AREAS MORE THAN 12.2 FEET FROM WALL CORNERS.
ZONE 5: WALL AREAS WITHIN 12.2 FEET OF WALL CORNERS.

NOTES:
1. DESIGN WIND PRESSURE INDICATED SHALL BE USED IN THE DESIGN OF ALL COMPONENTS AND CLADDING ELEMENTS.
2. PRESSURES ARE UNFACTORED ULTIMATE PRESSURES (1.0W) AS DETERMINED BY ASCE 7-16 AND DO NOT INCLUDE GRAVITY LOADS.

FLOOD LOADS:

PROJECT IS NOT IN FLOOD HAZARD ZONE

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LOCATION OF MECHANICAL OPENINGS, FLOOR DRAINS, INSERTS, DEPRESSIONS, BURIED CABLES, AND UTILITIES, ETC. WITH ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS.
4. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS, NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

SOIL AND FOUNDATIONS

1. FOUNDATION DESIGN IS IN ACCORDANCE WITH THE SOIL REPORT BY GROUND ENGINEERING CONSULTANTS, INC, NUMBER 25-3558, DATED 13 JUNE 2025.
2. DESIGN OF FOOTINGS AND WALLS IS BASED ON THE FOLLOWING CRITERIA:
   MAXIMUM ALLOWABLE SOIL BEARING PRESSURE .... 2500 p.s.f.
3. A REPRESENTATIVE OF THE SOIL ENGINEER SHALL INSPECT THE OPEN EXCAVATION TO VERIFY THAT THE SOIL TYPE AND CONDITIONS ARE CONSISTENT WITH DESIGN CRITERIA OF THE SOIL REPORT. IF THE SOIL PROPERTIES ARE FOUND TO BE DIFFERENT FROM THIS CRITERIA, THEN THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT THE FOUNDATION DESIGN MAY BE REVIEWED.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LOCATION OF MECHANICAL OPENINGS, FLOOR DRAINS, INSERTS, DEPRESSION, BURIED CABLES AND UTILITIES, ETC. WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.
5. WHERE NEW WORK JOINS TO EXISTING, THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO THE SUBMISSION OF SHOP DRAWINGS OR BEGINNING OF WORK. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY CONDITIONS OR DIMENSIONS DIFFERING FROM THOSE SHOWN.
6. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS, NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
7. ALL FOOTINGS AND SLAB-ON-GRADE SHALL BEAR ON A PROPERLY MOISTURE-CONDITIONED AND COMPACTED SITE GENERATED OR APPROVED IMPORTED FILL PRISM. THE FILL PRISM SHALL EXTEND A MINIMUM OF 10 FEET BELOW THE BOTTOM OF THE UNDERSLAB GRAVEL LAYER AND LATERALLY BEYOND THE EDGE OF THE SUPPORTED SLAB-ON-GRADE OR FOOTING A DISTANCE EQUAL TO THE THICKNESS OF THE PRISM.
8. ALL FOOTINGS SHALL BEAR A MINIMUM OF 36" BELOW GRADE FOR FROST PROTECTION. (1)

CONCRETE: (1)

1. ALL CONCRETE DESIGN, MATERIAL AND CONSTRUCTION SHALL CONFORM TO ACI 318-14 STANDARD, THE INTERNATIONAL BUILDING CODE, 2018 EDITION, THE CRSI MANUAL OF STANDARD PRACTICE (CURRENT EDITION), AND THE PROJECT SPECIFICATIONS.
2. MATERIAL SPECIFICATIONS:
   REINFORCING BARS .... ASTM A615, GR. 60
   WELDED WIRE FABRIC .... ASTM A185
   REINFORCING BARS (WELDED) .... ASTM A706, GR. 60
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:
   STEM WALLS & EXTERIOR SLAB-ON-GRADE .... 5000 p.s.i ASTM C150 CEMENT TYPE II
   INTERIOR SLAB-ON-GRADE & FOOTINGS .... 4500 p.s.i ASTM C150 CEMENT TYPE I/II
   APPARATUS BAY/GARAGE SLAB-ON-GRADE .... 5000 p.s.i ASTM C150 CEMENT TYPE II
   INTERIOR SLAB-ON-METAL DECK .... 4000 p.s.i ASTM C150 CEMENT TYPE I/II
   EXTERIOR SLAB-ON-METAL DECK .... 4500 p.s.i ASTM C150 CEMENT TYPE I/II
4. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION. FORMWORK SHALL BE DESIGNED, ERECTED AND REMOVED IN ACCORDANCE WITH A.C.I. SPECIFICATIONS.
5. REINFORCEMENT SHALL BE PLACED SO THAT THE FOLLOWING MINIMUM CONCRETE PROTECTION IS PROVIDED, UNLESS NOTED OTHERWISE.
   CONCRETE SURFACES POURED AGAINST GROUND .... 3" CLEAR
   FORMED SURFACES EXPOSED TO GROUND OR WEATHER
   BARS #6 AND LARGER .... 2" CLEAR
   BARS #5 AND SMALLER .... 1-1/2" CLEAR
   SLAB-ON-GRADE .... AT CENTERS
6. REINFORCEMENT SHALL BE SECURELY TIED AND SHALL BE SUPPORTED WITH METAL CHAIRS OR HUNG FROM FORMS.
7. CONTINUOUS HORIZONTAL BARS AND CONTINUOUS HORIZONTAL BARS AND CORNER BARS IN STEM WALLS AND FOOTNGS SHALL BE SPLICED ONLY WHERE NECESSARY FOR PURPOSES OF HANDLING AND BAR LENGTH. BAR SPLICES SHALL BE PLACED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

COMPRESSIVE STRENGTH	No. 6 BAR & SMALLER	No. 7 BAR & LARGER
4000 p.s.i	$48d_b$	$38d_b$
4500 p.s.i	$45d_b$	$36d_b$
5000 p.s.i	$43d_b$	$34d_b$

(WHERE d_b = BAR DIAMETERS)

8. VERTICAL DOWEL BARS IN WALLS AND COLUMNS SHALL BE LAPPED A MINIMUM OF 46 BAR DIAMETERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. GROUT UNDER BASE PLATES AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 7500 p.s.i.
10. WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF ONE FULL MESH PLUS 2" AND SECURELY WIRED TOGETHER. WELDED WIRE FABRIC SHALL EXTEND COMPLETELY INTO ALL DOOR BLOCKOUTS.
11. ADDITIONAL (2) #5 BARS (ONE AT EACH FACE) WITH A 2'-0" PROJECTION SHALL BE PLACED DIAGONALLY ACROSS THE CORNERS OF ALL OPENINGS AND VERTICAL STEPS IN WALLS.
12. STEM WALLS BELOW GRADE SHALL HAVE BACKFILL PLACED EQUALLY ON BOTH SIDE UNTIL THE REQUIRED LEVELS ARE REACHED.
13. WHERE ALL INTERIOR SLABS ON GRADE ABUT WALLS, A BOND BREAKER OF 1/2" EXPANSION JOINT MATERIAL SHALL BE PROVIDED BETWEEN WALL AND EDGE OF SLAB, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
14. CONTROL AND/OR CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED AT INTERVALS ENCLOSING NO MORE THAN 144 SQUARE FEET WITH A MAXIMUM OF 12 FEET IN ANY ONE DIRECTION.
15. CONSTRUCTION JOINTS SHALL BE PROVIDED IN WALLS AND GRADE BEAMS WHICH ARE OVER 70 FEET IN A STRAIGHT RUN. WATERSTOPS AND KEYWAYS SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS WHERE INTERIOR SLABS ON GRADE OCCUR BELOW EXTERIOR GRADE. ALL CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER.
16. PENETRATIONS IN STEM WALLS SHALL BE IDENTIFIED AND FORWARDED TO TH ENGINEER OF RECORD FOR APPROVAL. SEE TYPICAL CONCRETE DETAILS FOR PERMITTED PENETRATIONS ZONES. NO PENETRATIONS ARE PERMITTED IN PILASTERS OR FOOTINGS.

STEEL JOISTS AND DECK:

1. OPEN-WEB STEEL JOISTS SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. BRIDGING FOR FLOOR AND ROOF JOIST SHALL BE IN STRICT CONFORMANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS. BRIDGING SHALL NOT BE MODIFIED.
2. METAL ROOF AND FLOOR DECKING SHALL BE AS NOTED ON THE STRUCTURAL DRAWINGS. ALL DECKING SHALL BE CONTINUOUS OVER THREE OR MORE SUPPORTS, WHERE POSSIBLE.
3. METAL ROOF DECKING SHALL BE WELDED TO SUPPORTING AND PERIMETER STEEL MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS AT A MAXIMUM SPACING OF 6" O.C. UNLESS OTHERWISE NOTED. PROVIDE 2 SIDELAP FASTENERS OF #10 TEK SCREWS PER SPAN BETWEEN SUPPORTING MEMBERS, UNLESS NOTED OTHERWISE.
4. METAL FLOOR DECKING SHALL BE WELDED TO SUPPORTING AND PERIMETER MEMBERS WITH 5/8" PUDDLE WELDS AT A MAXIMUM SPACING OF 18" O.C. AT INTERMEDIATE SUPPORTS AND 12" O.C. AT OVERLAP SPLICES. PROVIDE WELDING WASHERS IF RECOMMENDED BY STEEL DECK INSTITUTE SPECIFICATIONS.

LIGHTGAUGE STEEL:

1. LIGHTGAUGE STRUCTURAL FRAMING SHALL CONFORM TO ASTM A1011, A1008 AND/OR A653.
2. ALL LIGHTGAUGE STEEL STUDS/JOISTS SHALL HAVE A 1-5/8" FLANGE WIDTH WITH 1/2" RETURN UNLESS NOTED OTHERWISE.
3. LIGHTGAUGE BUILT-UP STRUCTURAL FRAMING COMPONENTS SHALL BE CONNECTED BY WELDING AT 24" O.C. ON EACH SIDE UNLESS NOTED OTHERWISE.
4. PROVIDE BRIDGING, BLOCKING AND ACCESSORIES AS RECOMMENDED BY LIGHTGAUGE STEEL MANUFACTURER.
5. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELD TYPES AND POSITIONS REQUIRED ACCORDING TO THE REQUIREMENTS OF THE AWS D1,1 AND D1,3 WELDING CODES, CURRENT EDITIONS. WELDING SHALL BE INSPECTED BY THE TESTING AND INSPECTION AGENCY TO INSURE CONFORMANCE WITH THE DETAILS AND STANDARD PRACTICE.

MASONRY: (1)

1. ALL MASONRY DESIGN, FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS402-16, THE INTERNATIONAL BUILDING CODE, 2018 EDITION, AND THE PROJECT SPECIFICATIONS.
2. ALL HOLLOW CONCRETE UNIT (BLOCK) ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, F'_m OF 1500 p.s.i CONCRETE BLOCK SHALL CONFORM TO TYPE N-1 AND SHALL BE LIGHTWEIGHT.
3. ALL MASONRY MORTAR SHALL BE TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 p.s.i MIX DESIGNS SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY MASONRY WORK, OR MORTAR MIXES SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM AND BIA MIX PROPORTIONS:
   PARTS BY VOLUME OF PORTLAND CEMENT 1
   PARTS BY VOLUME OF HYDRATED LIME .... 1/4 TO 1/2
   AGGREGATE, MEASURED IN A DAMP LOOSE CONDITION .... NOT LESS THAN 2-1/4 NOR MORE THAN THREE TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME USED.
4. SOLID UNIT MASONRY SHALL HAVE FULL MORTAR COVERAGE ON THE FULL WIDTH OF THE UNIT. VERTICAL HEAD JOINTS SHALL BE WELL BUTTERED FOR THE FULL WIDTH OF THE UNIT.
5. HOLLOW UNIT MASONRY SHALL HAVE FULL MORTAR COVERAGE ON THE FACE SHELLS AND ON THE WEBS SURROUNDING CELLS TO BE FILLED WITH GROUT. VERTICAL HEAD JOINTS SHALL BE WELL BUTTERED FOR A FULL THICKNESS EQUAL TO THE FACE SHELL OF THE UNIT.
6. HORIZONTAL WIRE REINFORCEMENT SHALL BE PLACED IN BED JOINTS AT 16" O.C. VERTICAL SPACING. HORIZONTAL WIRE REINFORCEMENT IN PARAPETS SHALL BE PLACED IN BED JOINTS AT 8" O.C. VERTICAL SPACING. ADDITIONAL REINFORCING SHALL BE PLACED IN THE FIRST BED JOINT ABOVE AND BELOW OPENINGS AND SHALL EXTEND 2'-0" BEYOND OPENINGS.
7. NOMINAL WIDTH OF JOINT REINFORCEMENTS SHALL BE EQUAL TO THE NOMINAL WIDTH OF THE WALL, OR AS DETAILED. JOINT REINFORCEMENT AT CORNERS AND INTERSECTIONS SHALL BE PREFABRICATED UNITS.
8. CONTROL JOINTS SHALL BE PLACED IN ALL MASONRY WALLS AT A MAXIMUM SPACING OF 30'-0" O.C., OR AS NOTED ON THE DRAWINGS. HORIZONTAL WIRE REINFORCEMENT SHALL BE DISCONTINUOUS AT ALL CONTROL JOINTS. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. STEP BOND BEAMS AS REQUIRED AND DETAILED TO ACCOMMODATE JOIST BEARINGS, EMBEDDED PLATES, ETC. IN ORDER TO MAINTAIN CONTINUOUS UNOBSTRUCTED ROOF OR FLOOR DIAPHRAGM CONNECTIONS.
9. WHERE CONCRETE BLOCK WALLS INTERSECT CONCRETE FOUNDATION WALLS, PROVIDE #4 BARS AT 16" O.C. EXTENDING 24" EACH WAY.
10. VERTICAL REINFORCING SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. ALL SPLICES IN VERTICAL REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS INTO THE BLOCK WALL AND SHALL BE GROUTED SOLID. SPLICED BARS SHALL BE SEPARATED BY ONE BAR DIAMETER OR WIRED TOGETHER.
11. PROVIDE ONE FULL HEIGHT BAR AT ALL WALL CORNERS AND WALL ENDS. PROVIDE TWO FULL HEIGHT BARS AT EACH JAMB OF ALL WALL OPENINGS.
12. VERTICAL REINFORCEMENT SHALL BE SECURED IN PLACE IN LOCATION SHOWN ON DRAWINGS AND SHALL BE HELD IN POSITION AT TOP AND BOTTOM
13. GROUT FOR VERTICAL REINFORCING AND BOND BEAMS SHALL BE PEA-GRAVEL CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 3000 p.s.i MIX DESIGN SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY GROUTING.
14. CELLS CONTAINING REINFORCEMENT SHALL BE SOLIDLY FILLED WITH GROUT. GROUT SHALL BE POURED IN LIFTS OF NOT MORE THAN 4'-0", THEN THE GROUT SHALL BE PUDDLED OR VIBRATED INTO PLACE AND SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE TO FORM A KEY WITH THE NEXT COURSE ABOVE.
15. CORES IN COMPOSITE CAVITY WALLS CONTAINING REINFORCEMENT SHALL BE FORMED AND SOLIDLY FILLED WITH GROUT. GROUT SHALL BE POURED IN LIFTS OF NOT MORE THAN 4'-0", AND GROUT SHALL BE PUDDLED OR VIBRATED INTO PLACE.
16. ALL CORNERS, BOND BEAMS AND CELLS BELOW FINISHED GRADE SHALL BE GROUTED SOLID. VERTICAL CELLS OR CORES TO BE GROUTED SHALL MAINTAIN A CONTINUOUS UNOBSTRUCTED AREA NOT LESS THAN 2"x3".
17. REFER TO THE "LOOSE LINTEL SCHEDULE" FOR LINTEL REQUIREMENTS.

STRUCTURAL STEEL: (1)

1. ALL STRUCTURAL STEEL DESIGN, MATERIALS, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE INTERNATIONAL BUILDING CODE, 2018 EDITION, AND THE PROJECT SPECIFICATIONS.
2. MATERIAL SPECIFICATIONS:
   WIDE FLANGE (W) STRUCTURAL STEEL SHAPES .... ASTM A992
   CHANNELS (C AND MC), ANGLES (L), BARS AND PLATES .... ASTM A36
   WELDED AND SEAMLESS STEEL PIPE .... ASTM A53, TYPE E OR S, GRADE B
   HOLLOW STRUCTURAL STEEL (HSS) .... ASTM A1085, GRADE A OR ASTM A500, GRADE B
   STRUCTURAL TEES CUT FROM WIDE FLANGE SHAPES (WT) .... ASTM A36
   ANCHOR RODS .... ASTM 1554, GRADE 36
   HIGH STRENGTH BOLTS .... ASTM F3125, GR. A325
   HEADED ANCHOR STUDS .... ASTM A108
3. SHOP CONNECTIONS SHALL BE WELDED WITH E70XX ELECTRODES AND GROUND SMOOTH WHERE EXPOSED FIELD WELDS SHALL BE MADE WITH E70XX ELECTRODES. ALL WELDING SHALL BE DONE BY WELDERS CERTIFIED FOR THE WELD TYPES AND POSITIONS REQUIRED ACCORDING TO AWS D1.1 WELDING CODE, CURRENT EDITION. WELDING SHALL BE INSPECTED BY THE TESTING AND INSPECTION AGENCY TO INSURE CONFORMANCE WITH THE DETAILS AND STANDARD PRACTICE.
4. ALL BEAM CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE STANDARD FRAMED BEAM CONNECTIONS AS SHOWN IN TABLES II AND III OF THE AISC MANUAL OF STEEL CONSTRUCTION, DESIGNED TO CARRY THE FULL CAPACITY OF THE UNIFORMLY LOADED MEMBER, UNLESS NOTED OTHERWISE.
5. COLUMN BASE PLATES SHALL BE SET ON 1-1/2" NON-SHRINK GROUT WITH A MINIMUM OF (4) 1" DIAMETER x 1'-3" HEADED ANCHOR BOLTS UNLESS NOTED OTHERWISE.
6. ALL BEAMS BEARING ON CONCRETE MASONRY SHALL BEAR A MINIMUM OF 6" 0N 3/4" NON-SHRINK GROUT WITH TWO (2) 3/4" DIAMETER x 1'-0" + 2" ANCHOR BOLTS, UNLESS NOTED OTHERWISE.
7. PROVIDE ANGLE FRAME AROUND ALL SIDES OF ALL OPENINGS IN FLOOR AND ROOF DECK. ANGLES SHALL BE L4x4x1/4 WITH FULL WELDED INTERSECTIONS AND WELDED TO SUPPORT EACH END.
8. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
9. LOOSE LINTEL SCHEDULE: STEEL LINTEL ANGLES SHALL BE PROVIDED AT ALL OPENINGS IN NON-BEARING MASONRY WALLS NOT OTHERWISE NOTED. ANGLES SHALL BEAR A MINIMUM OF 6" EACH END. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS, AS FOLLOWS:
   SPANS 4'-0" AND LESS .... L 3-1/2 x 3-1/2 x 1/4
   SPANS 4'-1" TO 6'-0" .... L 4 x 3-1/2 x 5/16 (LLV)
   SPANS 6'-1" AND GREATER .... NOTIFY ENGINEER

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: JLC
DRAWN BY: KG
DESIGNED BY: JLC
PROJECT NUMBER: 20611004000

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SEAL: COLORADO LICENSED PROFESSIONAL ENGINEER, JONATHAN LLOYD CALLAHAN, 55103, 01/26/26

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

SHEET ID:
S001

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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SPECIAL INSPECTION SCHEDULE

AREAS REQUIRING SPECIAL INSPECTION	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	COMMENTS
FABRICATORS (IBC 1704.2.5)			
	●		IF FABRICATOR IS APPROVED, ON-SITE INSPECTION IS NOT REQUIRED BUT A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED TO THE BUILDING OFFICIAL IN ACCORDANCE WITH SECTION 1705 OF THE IBC.
SOILS (IBC 1705.6)			
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		■	PRIOR TO PLACEMENT OF CONCRETE.
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		■	PRIOR TO PLACEMENT OF COMPACTED FILL OR CONCRETE.
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		■	CHECK CLASSIFICATION AND GRADATIONS AT EACH LIFT, BUT NOT LESS THAN ONCE PER 10,000ft² OF SURFACE AREA.
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	●		
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		●	PRIOR TO PLACEMENT OF CONCRETE.
CONCRETE CONSTRUCTION (IBC 1705.3)			
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		■	VERIFY SIZE, CLEARANCES, SPLICES AND PROPER TIES.
VERIFY REINFORCING BAR WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.		■	
INSPECT REINFORCING BAR SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".		■	
INSPECT ALL OTHER REINFORCING BAR WELDS.	●		
INSPECT ANCHORS CAST IN CONCRETE.		■	
INSPECT ADHESIVE ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	■		VERIFY AND REVIEW SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION INCLUDED IN THE ANCHORS RESEARCH REPORT ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH SECTION 17.8.2 IN ACI 318.
INSPECT MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT COVERED ABOVE POST-INSTALLED IN HARDENED CONCRETE MEMBERS .		■	VERIFY AND REVIEW SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION INCLUDED IN THE ANCHORS RESEARCH REPORT ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH SECTION 17.8.2 IN ACI 318.
VERIFY USE OF REQUIRED DESIGN MIX.		■	VERIFY MIX DESIGN MEETS STRENGTH AND EXPOSURE REQUIREMENTS LISTED ON APPROVED PLANS.
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	■		INCLUDES SAMPLING FOR AIR, SLUMP, STRENGTH AND TEMPERATURE TECHNIQUES.
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	■		
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		■	
INSPECT PRESTRESSED CONCRETE PRESTRESSING TENDON FORCE APPICATION AND BONDED TENDON GROUTING.	■		
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		■	
FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC CATEGORY C, D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR INSTALLATION OF THE EMBEDED PARTS, COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS AND COMPLETION OF CONNECTIONS IN THE FIELD.	■		
INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.		■	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		■	
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		■	
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2.1, CHAPTER N AISC 360)			
PRIOR TO WELDING (TABLE N5.4-1).			
WELDER QUALIFICATION AND CONTINUITY RECORDS.		■	VERIFY THERE IS A SYSTEM IN PLACE TO IDENTIFY THE WELDER WHO HAS WELDED A JOINT OR MEMBER.
WPS AVAILABLE.	●		
MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE.	●		
MATERIAL IDENTIFICATION.		■	VERIFY TYPE AND GRADE.
FIT-UP OF GROOVE WELDS.		■	VERIFY JOINT PREPARATIONS, DIMENSIONS, CLEANLINESS, TACKING AND BACKING TYPE AND FIT.
FIT-UP OF CJP GROOVE WELDS OF HSS T, Y AND K JOINTS WITHOUT BACKING.		■	VERIFY JOINT PREPARATIONS, DIMENSIONS, CLEANLINESS AND TACKING.
CONFIGURATION AND FINISH OF ACCESS HOLES.		■	
FIT-UP OF FILLET WELDS.		■	VERIFY DIMENSIONS, CLEANLINESS AND TACKING.
DURING WELDING (TABLE N5.4-2).			
CONTROL AND HANDLING OF WELDING CONSUMABLES.		■	INSPECT PACKAGING AND EXPOSURE CONTROL.
CRACKED TACK WELDS.		■	VERIFY NO WELDING OVER CRACKED TACK WELDS.
ENVIRONMENTAL CONDITIONS.		●	VERIFY WIND SPEED, PRECIPITATION AND TEMPERATURE ARE WITHIN ACCEPTABLE LIMITS.
VERIFY WPS ARE FOLLOWED.		■	VERIFY WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE AND FLOW RATE, PREHEAT HAS BEEN APPLIED, INTERPASS MINIMUM AND MAXIMUM TEMPERATURE IS MAINTAINED AND PROPER WELD POSITION (F,V,H,OH).
VERIFY WELDING TECHNIQUES.		■	VERIFY INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS AND EACH PASS MEETS QUALITY REQUIREMENTS.
STEEL HEADED STUD ANCHORS.	●		VERIFY PLACEMENT AND INSTALLATION.
AFTER WELDING (TABLE N5.4-3).			
VERIFY WELDS ARE CLEANED.		■	
VERIFY SIZE, LENGTH AND LOCATION OF WELDS.	●		
VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA.	■		VERIFY CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT AND POROSITY MEET CRITERIA.
ARC STRIKES.	●		
K-AREA.	●		
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.	●		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	●		
REPAIR ACTIVITIES.	●		
DOCUMENTS ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	●		
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	●		
NONDESTRUCTIVE TESTING (TABLE N5.4-2).			
CJP GROVE WELDS.		■	FOR RISK CATEGORY III AND IV STRUCTURES UT SHALL BE PERFORMED ON ALL CJP FROOVE WELDS SUBJECTED TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T AND CORNER JOINTS, IN MATERIAL 5/16 IN. THICK OR GREATER. FOR RISK CATEGORY II STRUCTURES UT SHALL BE PERFORMED ON 10% OF AL CJP GROOVE WELDS IN BUTT, T, AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIAL 5/16 IN. THICK OR GREATER. FOR RISK CATEGORY I STRUCTURES OR MATERIAL LESS THAN 5/16 IN. OF THICKNESS NDT IS NOT REQUIRED.
UT TESTING RATE INCREASE.		■	FOR RISK CATEGORY II AND HIGHER STRUCTURES UT THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECTION RATE EXCEED 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPREATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS SHALL BE MADE PRIOR TO IMPLEMENTING THIS INCREASE.
WELDED JOINTS SUBJECTED TO FATIGUE.	●		
HIGH-STRENGTH BOLTING.			
PRIOR TO BOLTING (TABLE N5.6-1).			
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	●		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.		■	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL.		■	VERIFY GRADE, TYPE, BOLT LENGTH IF THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.		●	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.		■	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.		■	
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.		■	
DURING BOLTING (TABLE N5.6.2).			
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.		■	
JOINT BROUGHT TO THE SUNG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.		■	FOR SNUG-TIGHT JOINTS SPECIAL INSPECTION IS NOT REQUIRED. FOR PRETENSIONED AND SLIP-CRITICAL JOINTS WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH OR THE TURN-OF-NUT METHODS WITHOUT MATCHMARKING, THE INSPECTION FREQUENCY SHALL BE CONTINUOUS.
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.		■	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.		■	

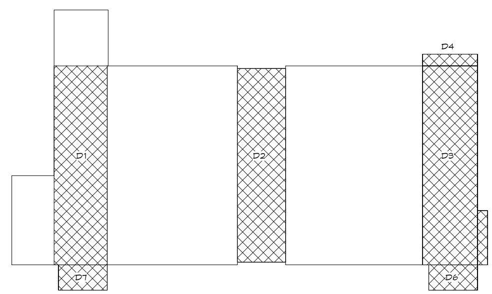
AREAS REQUIRING SPECIAL INSPECTION	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	COMMENTS
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2.1, CHAPTER N AISC 360), CONT.			
HIGH-STRENGTH BOLTING, CONT.			
AFTER BOLTING (TABLE N5.6.3).			
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	■		
OTHER INSPECTION TASKS (ASIC 360, N8)			
ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL.	■		VERIFY COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, PRIOR TO PLACEMENT OF CONCRETE.
FABRICATED STEEL OR ERECTED STEEL FRAMES.	■		VERIFY COMPLIANCE WITH DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS INCLUDING SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS AND CORRECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
DOCUMENTATION SHOWING ACCEPTANCE OR REJECTION OF JOINT DETAILS AND THE CORRECT APPLICATION OF JOINT DETAILS.	●		
COLD-FORMED STEEL DECK (IBC 1705.2.2, SDI QA/QC)			
INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT (SDI QA/QC, TABLE 1.1).			
VERIFY COMPLIANCE OF MATERIAL WITH CONSTRUCTION DOCUMENTS.	■		VERIFY PROFILES, MATERIAL PROPERTIES AND BASE METAL THICKNESS.
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	■		
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT (SDI QA/QC, TABLE 1.2).			
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS.	■		
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS.	●		
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	●		
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING (SDI QA/QC, TABLE 1.3).			
WPS PROCEDURE SPECIFICATIONS AVAILABLE.		●	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.		■	
MATERIAL IDENTIFICATION.		●	VERIFY TYPE AND GRADE.
CHECK WELDING EQUIPMENT.		●	
INSPECTION OR EXECUTION TASKS DURING WELDING (SDI QA/QC, TABLE 1.4).			
USE OF QUALIFIED WELDERS.		●	
CONTROL AND HANDLING OF WELDING CONSUMABLES.		●	
ENVIRONMENTAL CONDITIONS.		●	VERIFY WIND SPEED, MOISTURE AND TEMPERATURE ARE WITHIN ACCEPTABLE LIMITS.
WPS FOLLOWED.		●	
INSPECTION OR EXECUTION TASKS AFTER WELDING (SDI QA/QC, TABLE 1.5).			
VERIFY SIZE AND LOCATION OF WELDS.	■		VERIFY SUPPORT, SIDELAP AND PERIMETER WELDS.
VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA.	■		
VERIFY REPAIR ACTIVITIES.	■		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS.	●		
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING (SDI QA/QC, TABLE 1.6).			
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS.		●	
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.		●	
PROPER STORAGE FRO MECHANICAL FASTENERS.		■	
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING (SDI QA/QC, TABLE 1.7).			
FASTENERS ARE POSITIONED AS REQUIRED.		●	
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.		●	
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING (SDI QA/QC, TABLE 1.8).			
CHECK INSTALLATION OF SUPPORT FASTENERS.	●		VERIFY SPACING AND TYPE.
CHECK INSTALLATION OF SIDELAP FASTENERS.	■		VERIFY SPACING AND TYPE.
CHECK INSTALLATION OF PERIMETER FASTENERS.	■		VERIFY SPACING AND TYPE.
VERIFY REPAIR ACTIVITIES.	●		
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS.	●		
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC 1705.2.3)			
VERIFY INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS		●	VERIFY END CONNECTIONS, BRIDGING BOTH STANDARD AND ANY THAT DIFFERS FROM SJI SPECIFICATIONS.
MASONRY CONSTRUCTION (IBC 1705.4, TMS 402 AND TMS 602)			
VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE.	■		VERIFY IN ACCORDANCE WITH TMS 602 ARTICLE 1.5B.1.b.3 FOR SELF-CONSOLIDATING GROUT.
VERIFY f_m AND f_{AAC} .	■		VERIFY IN ACCORDANCE WITH TMS 602 ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHER EXEMPTED BY TMS 402.
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.		■	
AS CONSTRUCTION BEGINS (TMS 402 TABLE 3.1.2).			
VERIFY PROPORTIONS OF SITE-PREPARED MORTAR.		■	
VERIFY PROPORTIONS OF SITE-PREPARED MORTAR.		●	
VERIFY GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		■	
VERIFY LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		■	
VERIFY PRESTRESSING TECHNIQUE.		■	
VERIFY PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	●	■	CONTINUOUS INSPECTION IS REQUIRED FOR THE FIRST 5000 SQUARE FEET OF AAC MASONRY AND THEN PERIODIC INSPECTION THERAFTER IS REQUIRED.
PRIOR TO GROUTING (TMS 402 TABLE 3.1.2).			
VERIFY GROUT SPACE.		■	
VERIFY REINFORCEMENT, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.		■	VERIFY GRADE, TYPE AND SIZE.
VERIFY PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		■	
VERIFY PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.		■	
VERIFY CONSTRUCTION OF MORTAR JOINTS.		■	
DURING CONSTRUCTION (TMS 402 TABLE 3.1.2).			
VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		■	
VERIFY DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		■	VERIFY TYPE, SIZE AND LOCATION OF ANCHORS.
VERIFY WELDING OF REINFORCEMENT.	●		
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER OR HOT WEATHER.		■	COLD WEATHER IS TEMPERATURES BELOW 40°F AND HOT WEATHER IS TEMPERATURES ABOVE 90°F. .
VERIFY APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	■		
VERIFY COMPLIANCE FOR PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	■		
VERIFY PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	●	■	
OBSERVE PREPARATION OF GROUT AND MORTAR SPECIMENS AND/OR PRISMS.		■	
CAST-IN-PLACE DEEP FOUNDATIONS (IBC 1705.8)			
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	■		
VERIFY ELEMENT INSTALLATION.	■		VERIFY LOCATION, PLUMBNESS, ELEMENT DIAMETER, BELL DIAMETER (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.
FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3 OF THE IBC.	IN ACCORDANCE WITH SECTION 1705.3 OF THE IBC.		
WIND RESISTANCE (IBC 1705.12)			REQUIRED FOR STRUCTURES IN WIND EXPOSURE CATEGORY B, WHERE THE BASIC WIND SPEED V IS 150 MP.H, OR GREATER, REQUIRED FOR STRUCTURES IN WIND EXPOSURE CATEGORY C OR D WHERE THE BASIC WIND SPEED V IS 140 MP.H, OR GREATER. STRUCTURE IS CONSTRUCTED IN ACCORDANCE WITH THE COLD-FORMED STEEL OF CONVENTIONAL LIGHT FRAME CONSTRUCTION PROVISIONS OF THE I.B.C.
SEISMIC RESISTANCE (IBC 1705.13)			REQUIRED FOR STRUCTURES IN WIND EXPOSURE CATEGORY B, WHERE THE BASIC WIND SPEED V IS 150 MP.H, OR GREATER, REQUIRED FOR STRUCTURES IN WIND EXPOSURE CATEGORY C OR D WHERE THE BASIC WIND SPEED V IS 140 MP.H, OR GREATER.STRUCTURE IS CONSTRUCTED IN ACCORDANCE WITH THE COLD-FORMED STEEL OF CONVENTIONAL LIGHT FRAME CONSTRUCTION PROVISIONS OF THE I.B.C.

STATEMENT OF SPECIAL INSPECTIONS

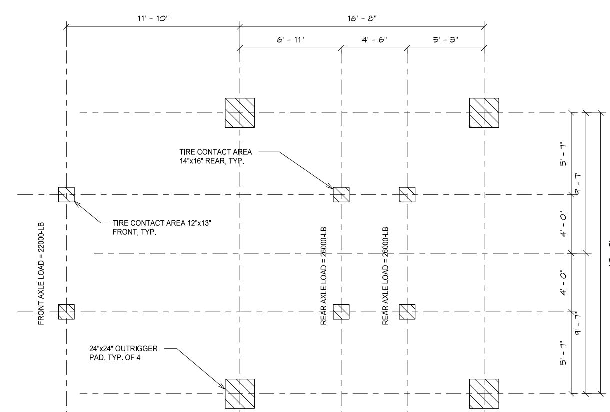
1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDANT AGENCY EMPLOYED BY THE OWNER FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS, UNLESS WAIVED BY THE BUILDING OFFICIAL.
2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL.
3. DUTIES OF THE SPECIAL INSPECTOR:
   A. THE SPECIAL INSPECTOR SHALL REVIEW ALL WORK LISTED BELOW FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AND THE INTERNATIONAL BUILDING CODE.
   B. THE SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE ENGINEER OF RECORD, CONTRACTOR, OWNER AND BUILDING OFFICIAL ON A WEEKLY BASIS, OR MORE FREQUENTLY AS REQUIRED BY THE BUILDING OFFICIAL. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF UNCORRECTED, TO THE ENGINEER OF RECORD AND BUILDING OFFICIAL.
   C. ONCE CORRECTIONS HAVE BEEN MADE BY THE CONTRACTOR, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL STATING THATH THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AS WELL AS THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
4. DUTIES AND RESPONSIOBILITIES OF THE CONTRACTOR:
   A. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. IN ACCORDANCE WITH THE SECTION 1704.1 OF THE INTERNATIONAL BUILDING CODE, THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED WITHIN THIS "STATEMENT OF SPECIAL INSPECTIONS".
   B. THE CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
   C. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.
5. PLEASE SEE THE "SPECIAL INSPECTIONS SCHEDULE" FOR THE TYPES, EXTENTS, AND FREQUENCY OF SPECIFIC ITEMS REQUIRING SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT.

SNOW DRIFT LOADING SCHEDULE

MARK	W(FT)	h_d(FT)	P_d(PSF)
D1	13.3	3.4	65.8
D2	11.4	1.5	28.2
D3	13.6	3.4	67.3
D4	15.9	4.0	78.9
D5	8.4	2.1	40.5
D6	15.9	4.0	78.9
D7	3.9	1.0	19.0



SNOW DRIFT MAP



FIRE TRUCK LOADING DIAGRAM

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC
PROJECT NUMBER:	**20611004000**

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SEAL:
COLORADO LICENSED PROFESSIONAL ENGINEER JONATHAN LLOYD CALLAHAN 55103 11/21/2025

SHEET TITLE:
SPECIAL INSPECTIONS & FIRE TRUCK LOADING

SHEET ID:
S002

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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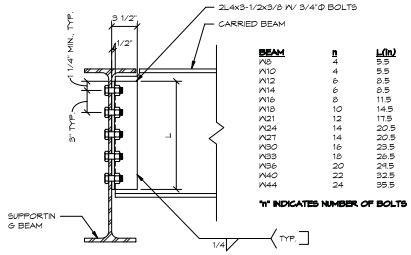
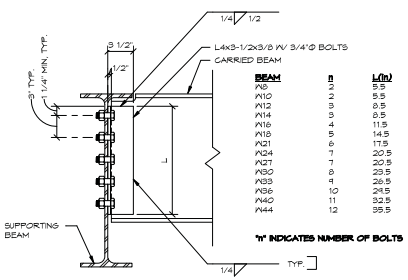


BEAM	n	L(in)
W8	4	5.5
W10	4	5.5
W12	6	8.5
W14	6	8.5
W16	8	11.5
W18	10	14.5
W21	12	17.5
W24	14	20.5
W27	14	20.5
W30	16	23.5
W33	18	26.5
W36	20	29.5
W40	22	32.5
W44	24	35.5

"n" INDICATES NUMBER OF BOLTS

NOTE:
1. FOR CARRIED BEAMS WITH A WEB THICKNESS OF LESS THAN 7/16" USE ALL BOLTED DOUBLE ANGLE CONNECTION.
2. FOR AN ALL BOLTED DOUBLE ANGLE CONNECTION USE THE ABOVE DETAIL FOR BOLT SPACING ON BOTH LEGS AND CHANGE THE CONNECTION ANGLE TO L4x4x3/8

TYPICAL DOUBLE ANGLE CONNECTION

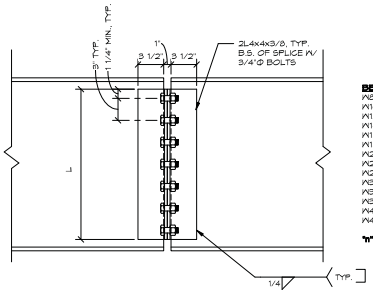


BEAM	n	L(in)
W8	2	5.5
W10	2	5.5
W12	3	8.5
W14	3	8.5
W16	4	11.5
W18	5	14.5
W21	6	17.5
W24	7	20.5
W27	7	20.5
W30	8	23.5
W33	9	26.5
W36	10	29.5
W40	11	32.5
W44	12	35.5

"n" INDICATES NUMBER OF BOLTS

NOTE:
1. FOR CARRIED BEAMS WITH A WEB THICKNESS OF LESS THAN 1/4" USE ALL BOLTED SINGLE ANGLE CONNECTION.
2. FOR AN ALL BOLTED SINGLE ANGLE CONNECTION USE THE ABOVE DETAIL FOR BOLT SPACING ON BOTH LEGS AND CHANGE THE CONNECTION ANGLE TO L4x4x3/8

TYPICAL SINGLE ANGLE CONNECTION

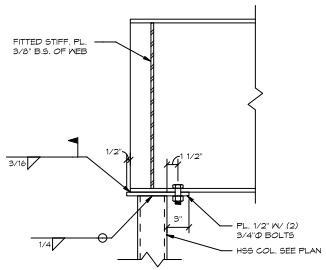


BEAM	n	L(in)
W8	4	5.5
W10	4	5.5
W12	6	8.5
W14	6	8.5
W16	8	11.5
W18	10	14.5
W21	12	17.5
W24	14	20.5
W27	14	20.5
W30	16	23.5
W33	18	26.5
W36	20	29.5
W40	22	32.5
W44	24	35.5

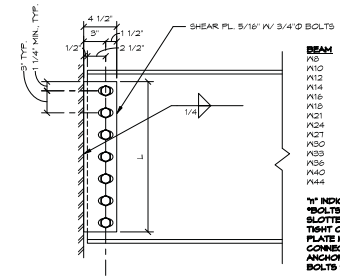
"n" INDICATES NUMBER OF BOLTS

NOTE:
1. AT SPLICE LOCATIONS WHERE ANY BEAM WEB THICKNESS IS LESS THAN 7/16" USE AN ALL BOLTED 4-ANGLE SHEAR SPLICE.
2. FOR AN ALL BOLTED SPLICE CONNECTION USE THE ABOVE DETAIL FOR BOLT SPACING ON BOTH LEGS

TYPICAL 4-ANGLE SHEAR SPLICE



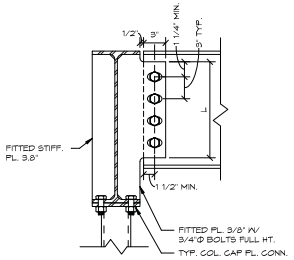
TYPICAL 2-BOLT HSS COLUMN CONNECTION



BEAM	n	L(in)
W8	2	5.5
W10	2	5.5
W12	3	8.5
W14	3	8.5
W16	4	11.5
W18	5	14.5
W21	6	17.5
W24	7	20.5
W27	7	20.5
W30	8	23.5
W33	9	26.5
W36	10	29.5
W40	11	32.5
W44	12	35.5

"n" INDICATES NUMBER OF BOLTS
*BOLTS SHALL BE CENTERED IN LONG SLOTTED HOLES - BOLTS SHALL BE SNUG TIGHT ONLY. PROVIDE 5/16" THICK COMMON PLATE WASHER PER RCSC 6.12. WHERE CONNECTION IS TO AN EMBED PLATE ANCHORED IN CONCRETE OR MASONRY BOLTS SHALL BE FINGER TIGHT.

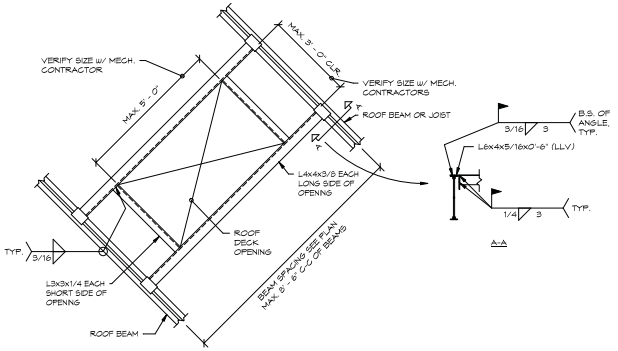
TYPICAL SINGLE-PLATE CONNECTION



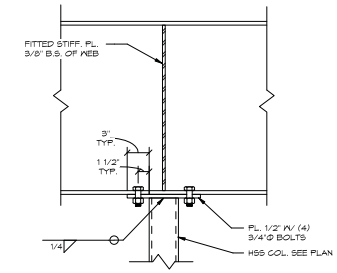
BEAM	n	L(in)
W8	2	5.5
W10	2	5.5
W12	3	8.5
W14	3	8.5
W16	4	11.5
W18	5	14.5
W21	6	17.5
W24	7	20.5
W27	7	20.5
W30	8	23.5
W33	9	26.5
W36	10	29.5
W40	11	32.5
W44	12	35.5

"n" INDICATES NUMBER OF BOLTS
*BOLTS SHALL BE CENTERED IN LONG SLOTTED HOLES - BOLTS SHALL BE SNUG TIGHT ONLY. PROVIDE 5/16" THICK COMMON PLATE WASHER PER RCSC 6.12.

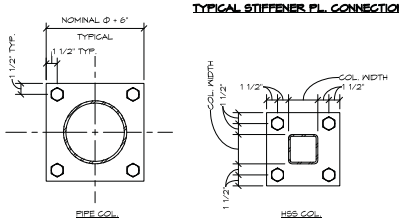
TYPICAL STIFFENER PL. CONNECTION @ COLUMN

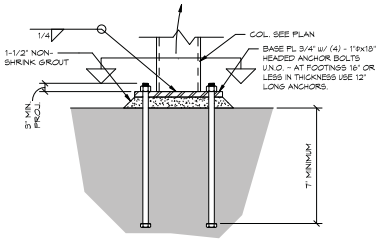


TYPICAL ROOF OPENING FRAME



TYPICAL 4-BOLT HSS COLUMN CONNECTION

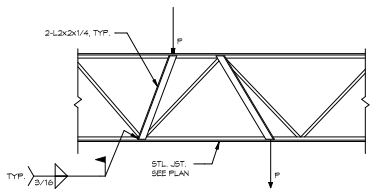




TYPICAL COLUMN BASE PL. CONNECTION

NOTES:
1. MAXIMUM BASE PLATE ANCHOR ROD HOLE DIAMETER AND WASHER REQUIREMENTS SHALL BE PER PART 14 OF THE AISC STEEL CONSTRUCTION MANUAL U.N.O.
2. MINIMUM STEEL EDGE DISTANCE SHALL BE THE NOMINAL DIAMETER OF THE ANCHOR ROD PLUS 1/8".
3. MINIMUM ANCHOR ROD EMBEDMENT SHALL BE 7". PROVIDE A MINIMUM OF 3" OF ANCHOR ROD PROJECTION ABOVE TOP OF BASE PLATE.
4. PROVIDE A 1/2"Ø HOLE IN THE CENTER OF ALL EMBED PLATES WITH A SURFACE AREA LARGER THAN 144 IN².

NOTES:
1. BOLTED CONNECTIONS SHALL HAVE THREADS EXCLUDED FROM THE SHEAR PLANE U.N.O.
2. MINIMUM BOLT SPACING SHALL BE 3 TIMES THE BOLT DIAMTER, U.N.O.
3. ALL BOLTED CONNECTIONS SHALL BE SNUG TIGHT, U.N.O.
4. PROVIDE A 1/2"Ø HOLE IN THE CENTER OF ALL EMBED PLATES WITH A SURFACE AREA LARGER THAN 144 IN².



TYPICAL CHORD REINFORCEMENT FOR POINT LOADS THAT OCCUR BETWEEN PANEL POINTS

NOTES:
1. ALL CONCENTRATED LOADS FROM HANGERS OR ROOF TOP EQUIPMENT THAT OCCUR BETWEEN JOIST PANEL POINTS AND ARE IN EXCESS OF 100-LBS SHALL BE REINFORCED AS SHOWN.
2. LOAD LOCATIONS SHALL BE IDENTIFIED AND FORWARDED TO THE ENGINEER OF RECORD FOR APPROVAL.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAHER
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
S003

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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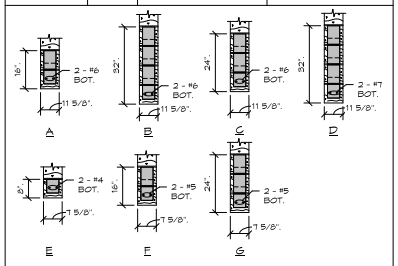
MASONRY OPENING SCHEDULE

MARK	LINTEL	JAMB	STEEL LINTEL
M1	A	1	N/A
M2	B	1	N/A
M3	C	1	N/A
M4	D	1	N/A
M5	E	2	N/A
M6	F	2	N/A
M7	G	2	N/A

NOTE:
1. ANCHORED LINTELS SHALL BE FASTENED TO THE MASONRY WALL WITH 1/2"Ø X 5" STAINLESS STEEL SCREW ANCHORS AT 16" ON-CENTER.
2. MASONRY SILLS SHALL BE 8" DEEP WITH 2-#5 HORIZONTAL BARS THAT EXTEND A MIN. OF 2'-0" PAST EDGE OF OPENING. IF INSUFFICIENT SPACE EXISTS FOR FULL EXTENSION THEN BEND BAR 90° WITH A 12" MIN. HOOK.
3. ALL INTERIOR OPENINGS WITH A CLEAR SPAN OF 1'-0" OR LESS IN NON-LOAD BEARING MASONRY WALLS SHALL BE PROVIDED WITH A TYPE M5 OPENING.

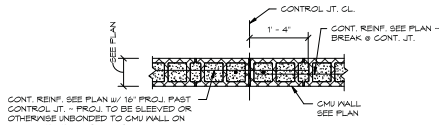
MASONRY LINTEL SCHEDULE

TYPE	SIZE	REINFORCING - HORIZ.	STIRRUPS
A	12"Wx16"H	2 - #6 BOT.	NONE
B	12"Wx32"H	2 - #6 BOT.	NONE
C	12"Wx24"H	2 - #6 BOT.	NONE
D	12"Wx32"H	2 - #7 BOT.	NONE
E	8"Wx8"H	2 - #4 BOT.	NONE
F	8"Wx16"H	2 - #5 BOT.	NONE
G	8"Wx24"H	2 - #5 BOT.	NONE



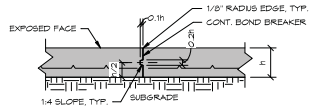
MASONRY LINTEL DETAILS

JAMB DETAILS

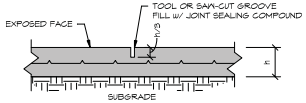


NOTE: CONTROL JOINTS SHALL NOT INTERRUPT MASONRY OPENING LINTELS OR JAMBS.

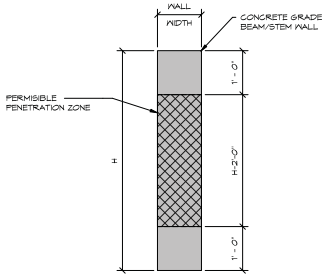
TYPICAL MASONRY CONTROL JOINT



TYPICAL CONSTRUCTION JOINT DETAIL

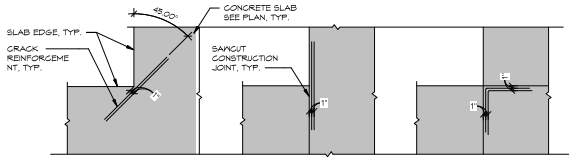


TYPICAL CONTROL JOINT DETAIL



TYPICAL GRADE BEAM PENETRATION ZONE

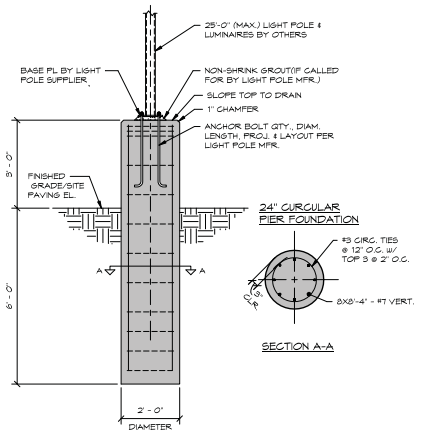
NOTES:
1. ALL GRADE BEAM/STEM WALL PENETRATIONS SIZE AND LOCATION SHALL BE PROVIDED TO THE EOR FOR APPROVAL PRIOR TO SUBMISSION OF CONCRETE SHOP DRAWINGS.
2. ALL PENETRATIONS SHALL BE SLEEVED.



NO INTERSECTING JOINT | ONE INTERSECTING JOINT | TWO INTERSECTING JOINTS

TYPICAL SLAB CORNER CRACK REINFORCEMENT @ SAWCUT JOINT

NOTES:
1. REINFORCING BARS SHALL BE #4x3'-0" AND BE PLACED 1" BELOW THE TOP OF SLAB.



SECTION A-A

TYPICAL LIGHT POLE BASE

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC
PROJECT NUMBER:	20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GILLARD
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
S004

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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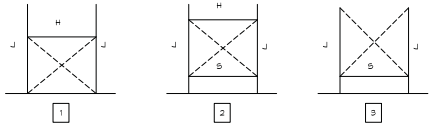
COLD-FORMED STEEL OPENING SCHEDULE

MARK	HEADER (H)	SILL (S)	JAMB (J)	LINTEL
1A	H1	N/A	JA	N/A
1B	H2	N/A	JB	N/A
1C	H3	N/A	JC	N/A
1D	H4	N/A	JA	N/A
2A	H1	S1	JA	N/A
2B	H1	S1	JD	N/A
3A	N/A	S2	JD	N/A

NOTES:
1. ALL STRUCTURAL COLD-FORMED ELEMENTS YEILD STRESS SHALL BE 50 KSI MIN.
2. ALL COLD-FORMED HEADER COMPONENTS SHALL BE UNPUNCHED.
3. CONTRACTOR SHALL COORDINATE OPENNS LOCATION AND DIMENSIONS WITH ARCHITECTURAL & MECHANICAL DRAWINGS.
4. ALL INTERIOR NON-LOAD BEARING GOLD-FORMED STEEL WALL, OPENINS , AND SOFFIT FRAMING NOT SPECIFICALLY DETAILED IN THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE COLD-FORMED STEEL CONTRACTOR.

WALL OPENING TYPES



COLD FORMED STEEL LAYUP SCHEDULE

LAYUP	HEADER	SILL	JAMB
1	OPNG. SIDE	OPNG. SIDE	OPNG. SIDE
2	N/A	OPNG. SIDE	N/A

NOTES:
1. ALL BUILT-UP HEADERS SHALL BE CONNECTED TOGETHER WITH #8 SCREWS @ 12" O.C.
2. SILLS SHALL BE CONNECTED TO STUDS WITH #10x1" SCREWS AT EACH STUD FLANGE TYPICAL.
3. BUILT-UP JAMBS AND SILLS SHALL BE CONNECTED TOGETHER WITH 1/8" FLARE BEVEL WELDS AT A 2:12 PITCH ON BOTH SIDES, TYPICAL.

COLD-FORMED STEEL HEADER SCHEDULE

MARK	STUDS	TRACKS	LAYUP	BEARING CONNECTION MARK (SEE SCHEDULE)
H1	2-600S162-54 V	2-600T125-54 H	1	C1
H2	2-600S250-97 V	2-600T200-54 H	1	C1
H3	2-600S200-54 V	2-600T200-54 H	1	C1
H4	2-600S300-54 V	2-600T125-54 H	1	C1

COLD-FORMED STEEL HEADER FASTENING SCHEDULE

MARK	CONNECTOR	@ JAMB		@ HEADER	
		FLANGE	WEB	TRACK	WEB
C1	SIMPSON SHH6/54	10-#10 SCREWS	2-#10 SCREWS	2-#10 SCREWS	10-#10 SCREWS

NOTES:
1. ALL CONNECTORS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.

NOTES:
1. SUBSTITUTION OF ANY SPECIFIED HANGER OR CONNECTION COMPONENT MUST BE APPROVED BY THE E.O.R. PROVIDE DESIRED COMPONENT STRUCTURAL PROPERTIES AND THE SPECIFIED COMPONENT THAT IT IS INTENDED TO REPLACE FOR APPROVAL.

COLD-FORMED WALL STUD SCHEDULE

MARK	STUDS	ON-CENTER SPACING
A	600S162-54	16"

NOTES:
1. WALLS STUDS SHALL BE LATERALLY BRACED AT 4'-0" O.C. WITH 16 GA. U-CHANNEL BRIDGING FASTENED TO STUDS WITH 20 GAUGE BRIDGING CLIPS. FASTEN CLIPS TO U-CHANNELS WITH 2-#10 SCREWS.
2. WALL STUD CONTINUOUS TOP & BOTTOM TRACK WIDTH AND THICKNESS SHALL MATCH SPECIFIED WALL STUDS AND SHALL HAVE 1-1/4" FLANGE WIDTH U.N.O.. BOTTOM TRACK SHALL BE FASTENED TO FOUNDATION WITH (2) 0.157"Øx1-1/4" P.A.F.S. @ 16" O.C.. ATTACH TRACK TO WALL STUDS WITH 1-#10 SCREW EACH FLANGE, TYPICAL.
3. ALL STRUCTURAL COLD-FORMED ELEMENTS YEILD STRESS SHALL BE 50 KSI MIN.
4. TYPICAL BYPASS FRAMING SHALL BE SIMPSON MSCB & FCB 48.5 BYPASS FRAMING CLIPS WITH 3-#14 SHOULDERED SCREWS INTO AND 4-#12-14 SCREWS INTO STUDS FOR SCB AND FCB CLIPS RESPECTIVELY. ANCHOR CLIPS TO EDGE ANGLE WITH 4-#12 SCREWS, TYPICAL.
5. ALL WALL STUDS SHALL BE CONTINUOUS OVER TWO SPANS WERE POSSIBLE.

COLD-FORMED STEEL SILL SCHEDULE

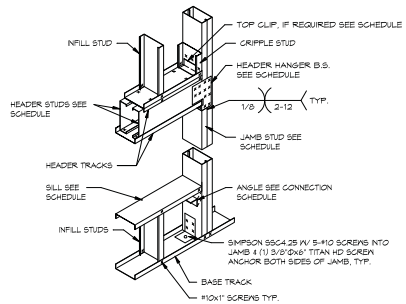
MARK	MEMBER	LAYUP
S1	600T125-54	1
S2	600T150-97 + 600S350-97	2

NOTES:
1. CONNECT SILL TO JAMBS WITH SIMPSON SFC4.25 CLIPS WITH 6-#10 SCREWS INTO SILL AND JAMB @ 6" STUD WALLS AND SIMPSON SFC6.25 CLIPS WITH 8-#10 SCREWS INTO SILL AND JAMB @ 8" STUD WALLS.

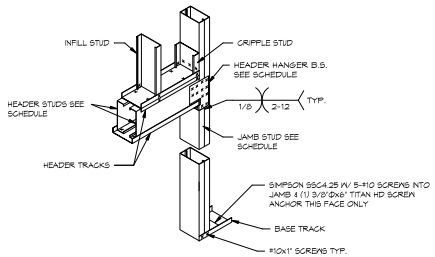
COLD-FORMED STEEL JAMB SCHEDULE

MARK	STUDS	LAYUP
JA	2-600S162-54	1
JB	2-600S200-54	1
JC	2-600S250-54	1
JD	2-600S350-97	1

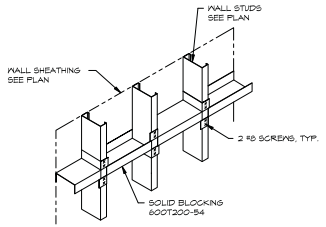
NOTES:
1. JAMB STUDS SHALL BE LATERALLY BRACED AT 4'-0" O.C. WITH 16 GA. U-CHANNEL BRIDGING FASTENED TO STUDS WITH 20 GAUGE BRIDGING CLIPS. FASTEN CLIPS TO U-CHANNELS WITH 2-#10 SCREWS.
2. ALL JAMB STUDS SHALL BE UNPUNCHED.
3. ALL JAMB STUDS SHALL BE CONTINUOUS OVER TWO SPANS WERE POSSIBLE.
4. JAMB STUDS SHALL BE CONNECTED TO EDGE ANGLE AT ROOF WITH SIMPSON MSCB48.5 DEFLECTION CLIPS WITH 3-#14 SHOULDERED SCREWS INTO JAMB AND 4-#12-14 SCREWS INTO ANGLE. AT THE SECOND FLOOR JAMBS SHALL BE CONNECTED TO ANCHOR PLATE WITH (2) SCG62-5/97 CLIPS WITH 3-#14 SHOULDERED SCREWS INTO JAMB AND WELDED TO ANCHOR PLATE. SEE DETAIL 10/S3.2 FOR CONNECTION AT SECOND FLOOR EDGE ANGLE.



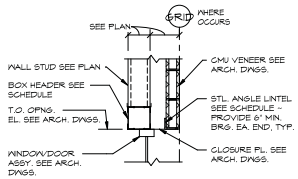
TYPICAL WINDOW HEADER



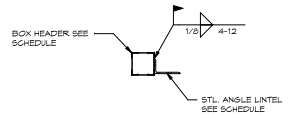
TYPICAL DOOR HEADER



CFS BLOCKING DETAIL



TYPICAL LOOSE LINTEL CONNECTION



TYPICAL WELDED LINTEL CONNECTION

NOTES:
1. IF JAMBS BEAR ON STEEL MEMBERS THEN ELIMINATE BOTTOM JAMB CLIPS AND WELD TRACK TO STEEL SUPPORTING MEMBER ON BOTH INTERIOR AND EXTERIOR FACES WITH 1/8"X4" FILLET WELDS. WELD JAMB TO TRACK ON BOTH FACES PERPENDICULAR TO TRACK SPAN WITH 1/8"X4" FILLET WELDS.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAHER
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
TYPICAL DETAILS

SHEET ID:
S005

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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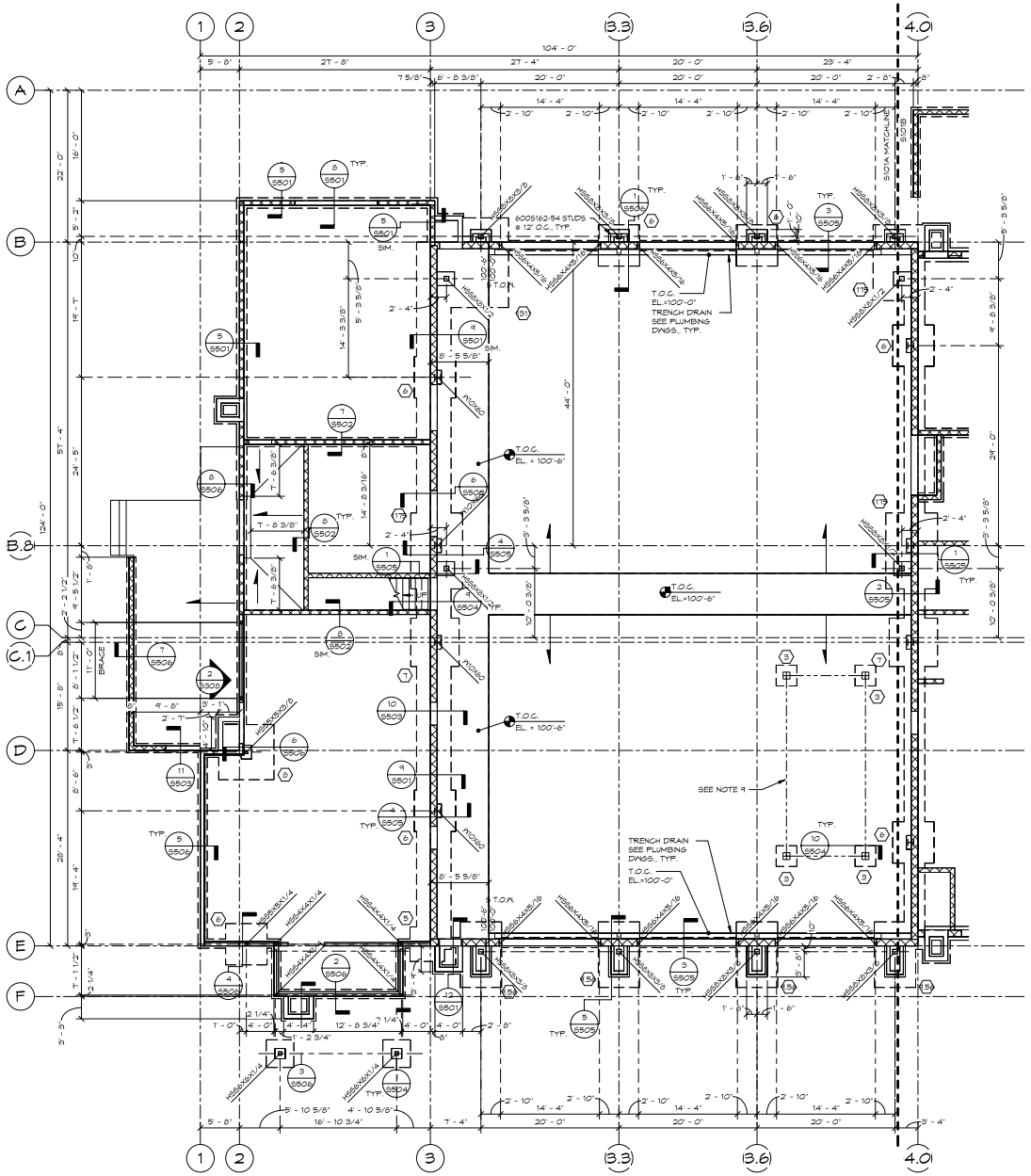
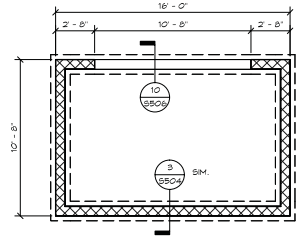


FOUNDATION PLAN-SOUTH

1/8" = 1'-0"

NOTES:

1. ALL FOOTINGS AND SLAB-ON-GRADE SHALL BEAR ON A PROPERLY MOISTURE-CONDITIONED AND COMPACTED SITE GENERATED OR APPROVED IMPORTED FILL PRISM. THE FILL PRISM SHALL EXTEND A MINIMUM OF 10 FEET BELOW THE BOTTOM OF THE UNDERSLAB GRAVEL LAYER AND LATERALLY BEYOND THE EDGE OF THE SUPPORTED SLAB-ON-GRADE OR FOOTING A DISTANCE EQUAL TO THE THICKNESS OF THE PRISM.
2. TOP OF SLAB ELEVATION SHALL BE 100'-0" U.N.O.
3. CONTRACTOR TO COORDINATE ALL DOOR OPENING/STOREFRONT BLOCKOUT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. APPARATUS BAY FLOOR SHALL BE 8" REINFORCED CONCRETE SLAB-ON-GRADE. REINFORCE WITH #6 BARS AT 10" ON CENTER AT SLAB MID-DEPTH.
5. ADMINISTRATIVE AREA FLOOR AND ALL STRUCTURAL STOOPS SHALL BE 4" REINFORCED CONCRETE SLAB-ON-GRADE. REINFORCE WITH 4x4-W4.0xW4.0 W.W.F. AT SLAB MID-DEPTH.
6. SHOP & UPFIT, PARTS STORAGE AREA, INTERIOR AND EXTERIOR BULK FLUID STORAGE AREA FLOOR SHALL BE 6" REINFORCED CONCRETE SLAB-ON-GRADE. REINFORCE WITH 4x4-W5.5xW5.5 W.W.F.
7. CONTRACTOR TO COORDINATE LOCATION OF ALL INTERIOR NON-LOAD BEARING PARTITIONS WITH ARCHITECTURAL DRAWINGS.
8. EXTERIOR BULK FLUID AREA FLOOR SHALL BE 6" SLAB-ON-GRADE REINFORCED WITH 4x4-W5.5xW5.5 W.W.F.
9. 4-POST LIFT. CONTRACTOR TO COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS. FOOTINGS SHALL BE CENTERED UNDER POST BASE PLATES.
10. EXTERIOR CONCRETE APRON AND ALL OTHER EXTERIOR CONCRETE SLABS SHALL BE 6" THICK SLABS-ON-GRADE REINFORCED WITH #6 BARS AT 10" O.C. EACH WAY U.N.O.



2 / S101A TRASH ENCLOSURE FOUNDATION PLAN

1/4" = 1'-0"

NOTES:

1. CONTRACTOR TO COORDINATE ENCLOSURE LOCATION AND SIZE WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO COORDINATE TOP OF SLAB ELEVATION WITH CIVIL DRAWINGS. SLAB SHALL BE 6" CONCRETE SLAB-ON-GRADE REINFORCED WITH 4x4-W5.5xW5.5 W.W.F.
3. ENCLOSURE GATE AND GATE POST ANCHORAGE SHALL BE BY THE GATE MANUFACTURER.

FOOTING PAD SCHEDULE

MARK	FOOTING SIZE	REINFORCEMENT
3	3'-0"x3'-0"x1'-0" DEEP	4 - #4's x 2'-8" EA. WAY BOT.
4	4'-0"x4'-0"x1'-0" DEEP	6 - #4's x 3'-8" EA. WAY BOT.
5	5'-0"x5'-0"x1'-0" DEEP	5 - #5's x 4'-8" EA. WAY BOT.
6	6'-0"x6'-0"x1'-0" DEEP	6 - #5's x 5'-8" EA. WAY BOT.
6A	6'-0"x6'-0"x1'-2" DEEP	6 - #5's x 5'-8" EA. WAY BOT.
7	7'-0"x7'-0"x1'-0" DEEP	8 - #5's x 6'-8" EA. WAY BOT.
8	8'-0"x8'-0"x1'-0" DEEP	8 - #6's x 7'-8" EA. WAY BOT.
8.5A	8'-6"x9'-6"x1'-0" DEEP	8 - #6's x 8'-2" EA. WAY BOT.
9.5A	9'-6"x6'-0"x1'-0" DEEP	8 - #6's x 9'-2" LONG DIR. BOT. 8 - #6's x 5'-8" SHORT DIR. BOT.
9.7	9'-0"x7'-0"x1'-0" DEEP	8 - #6's x 8'-8" LONG DIR. BOT. 8 - #6's x 6'-8" SHORT DIR. BOT.
11.7S	11'-0"x7'-6"x1'-0" DEEP	8 - #6's x 10'-8" LONG DIR. BOT. 10 - #6's x 7'-2" SHORT DIR. BOT.
13.11	13'-0"x11'-0"x1'-0" DEEP	10 - #7's x 12'-8" LONG DIR. BOT. 12 - #7's x 10'-8" SHORT DIR. BOT.

LEGEND:

T.O.F.	TOP OF CONCRETE FOOTING
T.O.C.	TOP OF CONCRETE STEMWALL ELEVATION
T.O.L.	TOP OF BRICK LEDGE
T.O.M.	TOP OF MASONRY
B.O.C.	BOTTOM OF CONCRETE
A	FOOTING MARK - SEE SCHEDULE
39'-4" / 49'-4"	STEP FOOTING w/ TOP OF FOOTING ELEVATION NOTED EACH SIDE

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:

COLORADO LICENSED JOSHUA LLOYD GALLAWAY 55103 11/21/2025 PROFESSIONAL ENGINEER

SHEET TITLE:
FOUNDATION PLAN-SOUTH

SHEET ID:
S101A

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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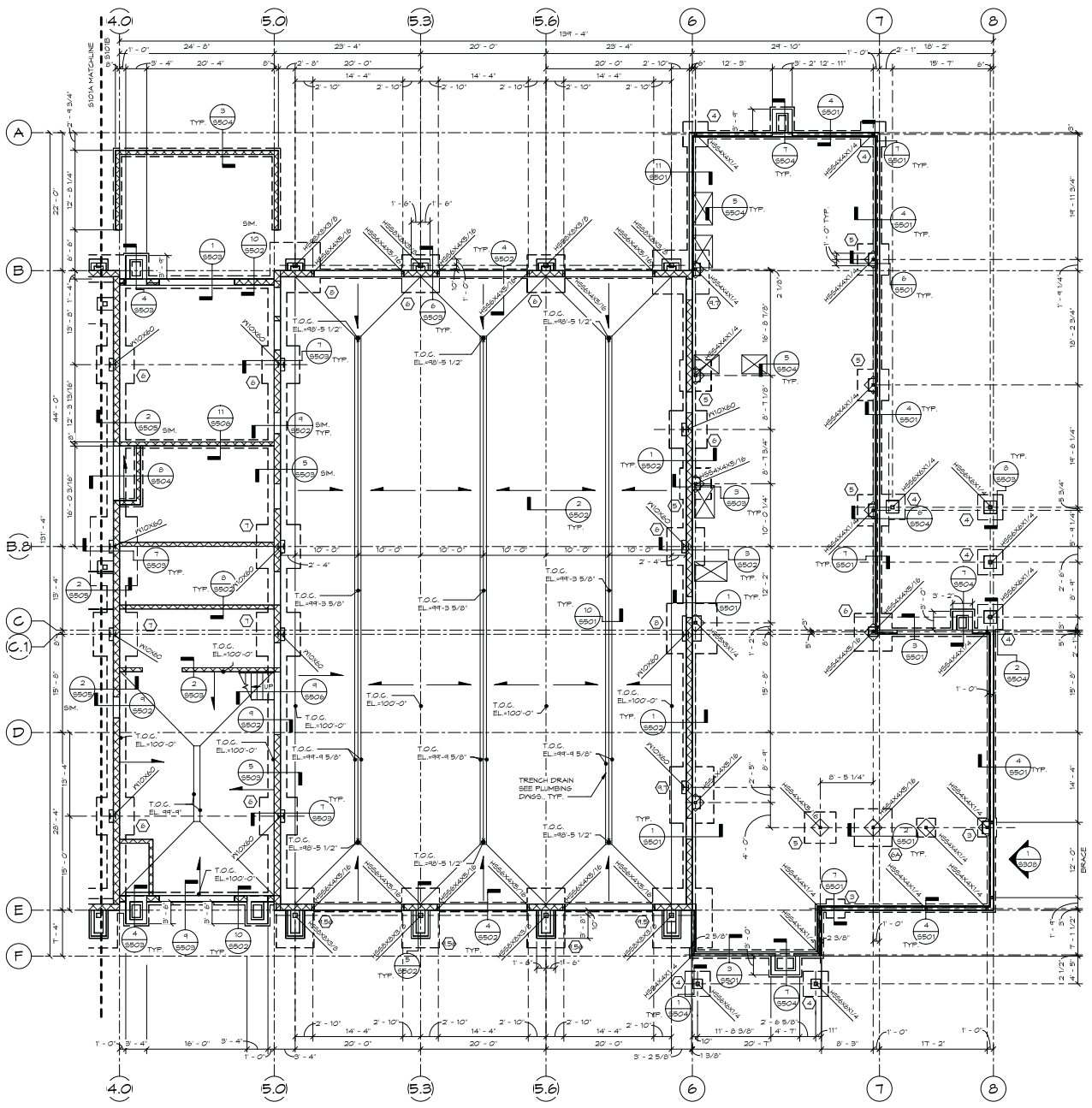
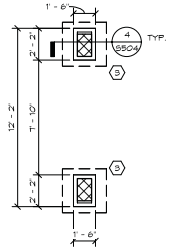


FOUNDATION PLAN-NORTH

1/8" = 1'-0"

NOTES:

1. ALL FOOTINGS AND SLAB-ON-GRADE SHALL BEAR ON A PROPERLY MOISTURE-CONDITIONED AND COMPACTED SITE GENERATED OR APPROVED IMPORTED FILL PRISM. THE FILL PRISM SHALL EXTEND A MINIMUM OF 10 FEET BELOW THE BOTTOM OF THE UNDERSLAB GRAVEL LAYER AND LATERALLY BEYOND THE EDGE OF THE SUPPORTED SLAB-ON-GRADE OR FOOTING A DISTANCE EQUAL TO THE THICKNESS OF THE PRISM.
2. TOP OF SLAB ELEVATION SHALL BE 100'-0" U.N.O.
3. CONTRACTOR TO COORDINATE ALL DOOR OPENING/STOREFRONT BLOCKOUT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. APPARATUS BAY FLOOR SHALL BE 8" REINFORCED CONCRETE SLAB-ON-GRADE. REINFORCE WITH #6 BARS AT 12" ON CENTER EACH WAY AT SLAB MID-DEPTH.
5. ADMINISTRATIVE AREA FLOOR AND ALL STRUCTURAL STOOPS SHALL BE 4" REINFORCED CONCRETE SLAB-ON-GRADE. REINFORCE WITH 4X4-W4.0XW4.0 W.W.F. AT SLAB MID-DEPTH.
6. CENTER AREA FLOOR BETWEEN GRID LINES 4 AND 5 SHALL BE 6" REINFORCED CONCRETE SLAB-ON-GRADE. REINFORCE WITH 4X4-W5.5XW5.5 W.W.F.
7. CONTRACTOR TO COORDINATE LOCATION OF ALL INTERIOR NON-LOAD BEARING PARTITIONS WITH ARCHITECTURAL DRAWINGS.
8. EXTERIOR CONCRETE APRON AND ALL OTHER EXTERIOR CONCRETE SLABS SHALL BE 9" THICK SLABS-ON-GRADE REINFORCED WITH #6 BARS AT 10" O.C. EACH WAY U.N.O.



2 / S101B — MONUMENT SIGN FOUNDATION PLAN

1/4" = 1'-0"

NOTES:

1. CONTRACTOR TO COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.
2. SIGNAGE AND ITS ATTACHMENT TO THE PILASTERS SHALL BE DESIGNED BY THE SIGN MANUFACTURER.

FOOTING PAD SCHEDULE

MARK	FOOTING SIZE	REINFORCEMENT
3	3'-0"x3'-0"x1'-0" DEEP	4 - #4's x 2'-8" EA. WAY BOT.
4	4'-0"x4'-0"x1'-0" DEEP	6 - #4's x 3'-8" EA. WAY BOT.
5	5'-0"x5'-0"x1'-0" DEEP	5 - #5's x 4'-8" EA. WAY BOT.
6	6'-0"x6'-0"x1'-0" DEEP	6 - #5's x 5'-8" EA. WAY BOT.
6A	6'-0"x6'-0"x1'-2" DEEP	6 - #5's x 5'-8" EA. WAY BOT.
7	7'-0"x7'-0"x1'-0" DEEP	6 - #5's x 6'-8" EA. WAY BOT.
8	8'-0"x8'-0"x1'-0" DEEP	8 - #6's x 7'-8" EA. WAY BOT.
4.5a	4'-6"x4'-6"x1'-0" DEEP	8 - #6's x 4'-2" EA. WAY BOT.
4.5c	4'-6"x6'-0"x1'-0" DEEP	8 - #6's x 4'-2" LONG DIR. BOT. 8 - #6's x 5'-8" SHORT DIR. BOT.
4.7a	4'-0"x7'-0"x1'-0" DEEP	8 - #6's x 8'-8" LONG DIR. BOT. 8 - #6's x 6'-8" SHORT DIR. BOT.
11.5	11'-0"x7'-6"x1'-0" DEEP	8 - #6's x 10'-8" LONG DIR. BOT. 10 - #6's x 7'-2" SHORT DIR. BOT.
13a	13'-0"x11'-0"x1'-0" DEEP	10 - #7's x 12'-8" LONG DIR. BOT. 12 - #7's x 10'-8" SHORT DIR. BOT.

LEGEND:

T.O.F.	TOP OF CONCRETE FOOTING
T.O.C.	TOP OF CONCRETE STEMWALL ELEVATION
T.O.L.	TOP OF BRICK LEDGE
T.O.M.	TOP OF MASONRY
B.O.C.	BOTTOM OF CONCRETE
A	FOOTING MARK - SEE SCHEDULE
48'-4" / 47'-4"	STEP FOOTING w/ TOP OF FOOTING ELEVATION NOTED EACH SIDE

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC
PROJECT NUMBER:	20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLEMAN
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
FOUNDATION PLAN-NORTH

SHEET ID:
S101B

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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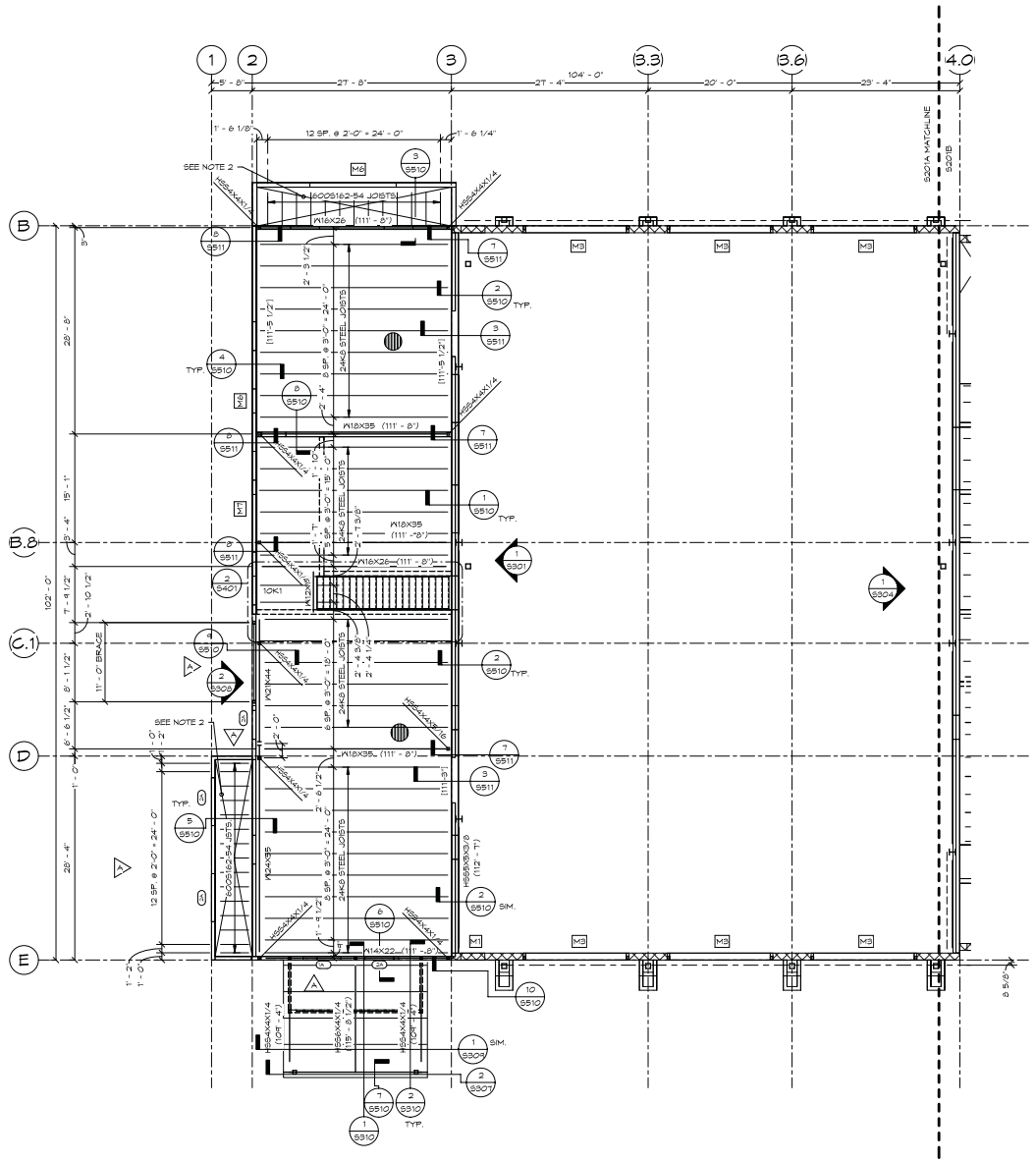

FRAMING PLAN-SOUTH

1/8" = 1'-0"

NOTES:

1. MEZZANINE FLOOR SHALL BE 4" CONCRETE SLAB ON 1" 24 GAUGE GALVANIZED STEEL FORM DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8" PUDDLE WELDS IN A 33/4 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.
2. ROOF DECK SHALL BE 1-1/2" 24 GUAGE TYPE B PRIMED ROOF DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH #12 SCREWS IN A 36/4 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.
3. ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 12 P.S.F.
4. ROOF SHALL BE 3/4" PRESSURE TREATED OSB/PLYWOOD SHEATHING FASTENED TO SUPPORTS WITH 10d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER IN PANEL FIELD.
5. EXTERIOR COLD-FORMED STEEL STUD WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD/OSB WITH THE LONGSIDE ORIENTED PERPENDICULAR TO THE STUDS. SHEATHING SHALL BE FASTENED TO THE STUDS WITH #12x2" SCREWS AT 6" O.C ON PANEL EDGES AND 12" O.C. IN PANEL FIELD.
6. TOP OF SLAB ELEVATION SHALL BE 112'-0" U.N.O.
7. TOP OF STEEL ELEVATION SHALL BE 111'-5 1/2" U.N.O.

LEGEND:

- INDICATES MASONRY OPENING SEE S004
- CFS OPENING SEE S005
- INDICATES CFS WALL STUD TYPE SEE S005

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:

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55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
FRAMING PLAN-SOUTH

SHEET ID:
S201A

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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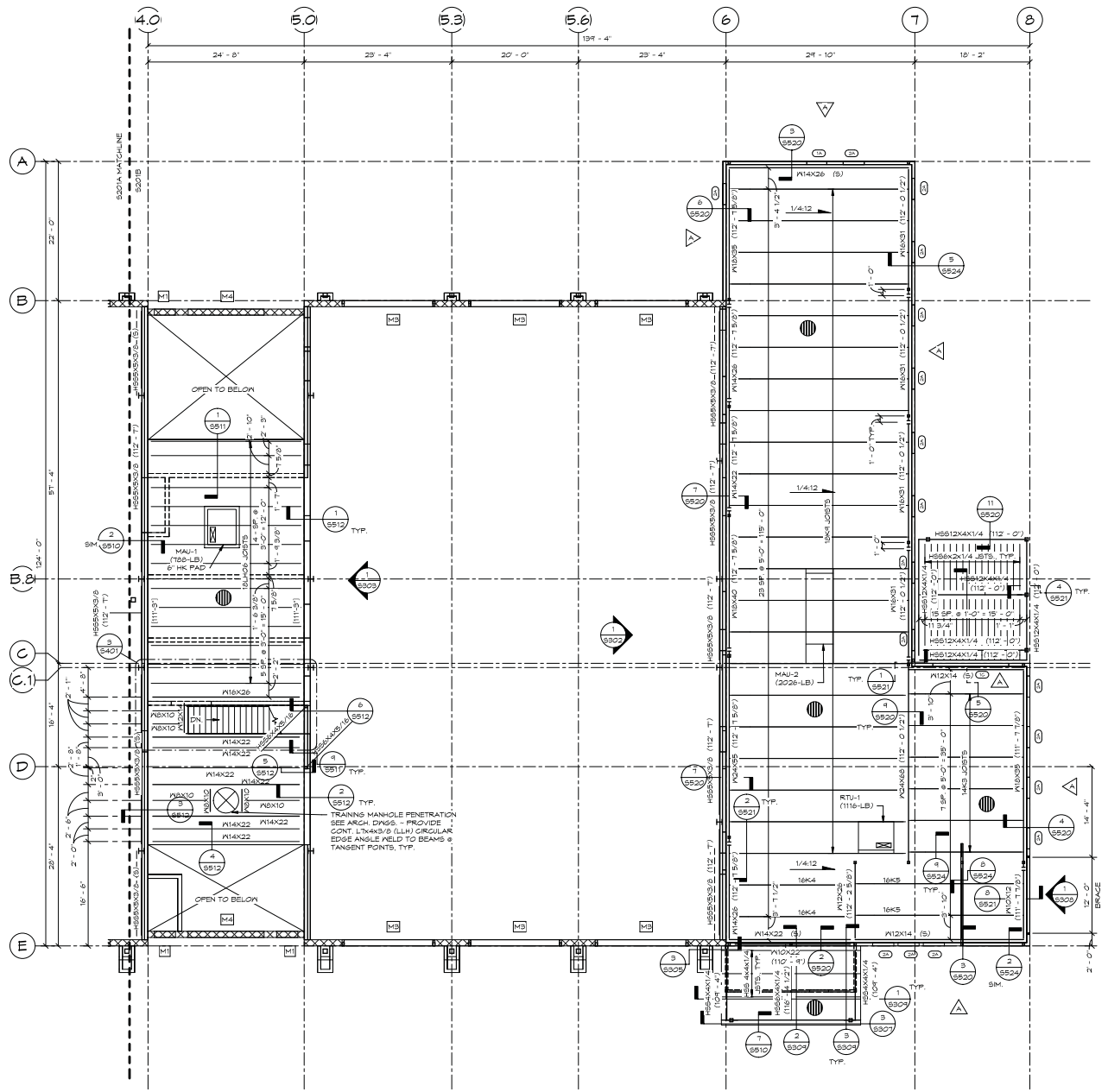

FRAMING PLAN-NORTH

1/8" = 1'-0"

NOTES:

1. MEZZANNINE FLOOR SHALL BE 4" CONCRETE SLAB ON 1" 24 GAUGE GALVANIZED STEEL FORM DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8"Ø PUDDLE WELDS IN A 33/4 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.
2. ROOF DECK SHALL BE 1-1/2" 24 GUAGE TYPE B PRIMED ROOF DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8"Ø PUDDLE WELDS IN A 36/4 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.
3. ROOF JOIST SHALL BE DESIGNED FOR A NET UPLIFT OF 12 P.S.F.
4. ROOF SHALL BE 3/4" PRESSURE TREATED OSB/PLYWOOD SHEATHING FASTENED TO SUPPORTS WITH 10d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER IN PANEL FIELD.
5. ROOF SUPPORTED MECHANICAL UNITS SHALL BE SUPPORTED ON CURBS SEE MECHANICAL DRAWINGS. INSTALL TYPICAL ANGLE FRAMES UNDER ROOF DECK BELOW MECHANICAL CURBS. SEE S003 FOR FRAME DETAILS.
6. EXTERIOR COLD-FORMED STEEL STUD WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD/OSB WITH THE LONGSIDE ORIENTED PERPENDICULAR TO THE STUDS. SHEATHING SHALL BE FASTENED TO THE STUDS WITH #12x2" SCREWS AT 6" O.C ON PANEL EDGES AND 12" O.C. IN PANEL FIELD.
7. TOP OF SLAB ELEVATION SHALL BE 112'-0" U.N.O.

LEGEND:

- INDICATES MASONRY OPENING SEE S004
- CFS OPENING SEE S005
- INDICATES CFS WALL STUD TYPE SEE S005

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
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SEAL:
COLORADO LICENSED
55103
11/21/2025
JOHN LLOYD CALLAN
PROFESSIONAL ENGINEER

SHEET TITLE:
FRAMING PLAN-NORTH

SHEET ID:
S201B

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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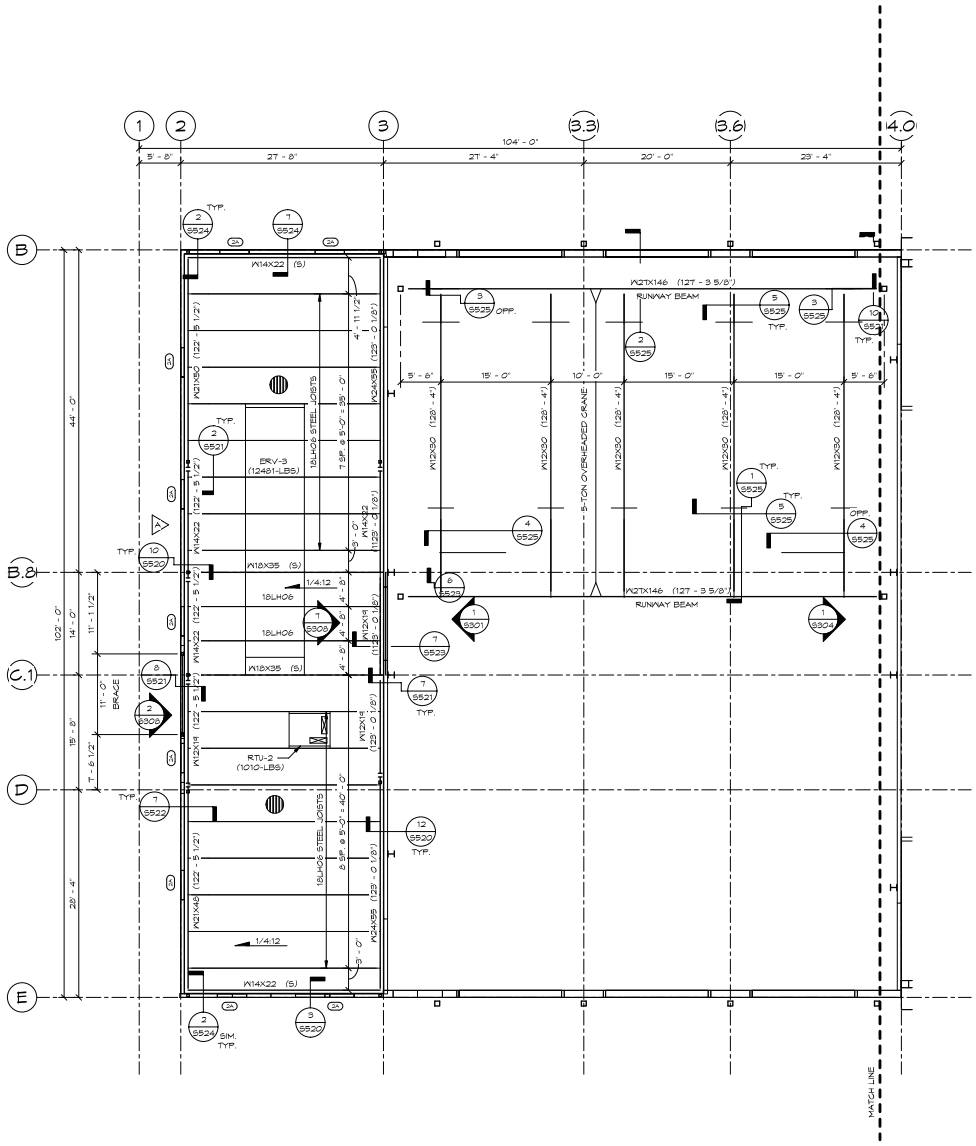

LOW ROOF FRAMING PLAN-SOUTH

1/8" = 1'-0"

NOTES:

1. ROOF DECK SHALL BE 1-1/2" 24 GUAGE TYPE B PRIMED ROOF DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8"Ø PUDDLE WELDS IN A 36/4 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.
2. ROOF JOIST SHALL BE DESIGNED FOR A NET UPLIFT OF 12 P.S.F.
3. EXTERIOR COLD-FORMED STEEL STUD WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD/OSB WITH THE LONGSIDE ORIENTED PERPENDICULAR TO THE STUDS. SHEATHING SHALL BE FASTENED TO THE STUDS WITH #12x2" SCREWS AT 6" O.C. ON PANEL EDGES AND 12" O.C. IN PANEL FIELD.
4. ROOF SUPPORTED MECHANICAL UNITS SHALL BE SUPPORTED ON CURBS SEE MECHANICAL DRAWINGS. INSTALL TYPICAL ANGLE FRAMES UNDER ROOF DECK BELOW MECHANICAL CURBS. SEE S003 FOR FRAME DETAILS.
5. CRANE IS ASSUMED TO BE SINGLE GIRDER PENDANT OPERATED AND UNDERSLUNG MOUNTED. BUILDING CLASSIFICATION IS ASSUMED TO BE CLASS B AND A CRANE CMAA CLASS B. ASSUMED LOADING: MAXIMUM WHEEL LOAD = 7340-LBS.; CRANE WEIGHT = 5445 LBS.; HOIST WEIGHT = 600 LBS.; VERTICAL IMPACT LOAD = 1418 LBS.; LATERAL SIDE THRUST = 3002 LBS.; TRACTION FORCE = 1418 LBS.; END STOP FORCE = 2956 LBS. CRANE MANUFACTURER TO CONFIRM ASSUMPTIONS AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY DIFFERENCES BETWEEN THE ASSUMED AND ACTUAL REQUIRED LOADINGS OF SELECTED CRANE.

LEGEND:

T.O.M.	TOP OF MASONRY
( )	INDICATES TOP OF STEEL ELEVATION
[ ]	INDICATES JOIST BEARING ELEVATION
(S)	INDICATES TOP OF STEEL BEAM SLOPES
	INDICATES DECK SPAN DIRECTION
	INDICATES CFS WALL STUD TYPE SEE S005
	CFS OPENING SEE S005
	INDICATES BEAM SPLICE
	INDICATES MASONRY OPENING SEE S004

SCALE: 1/8" = 1'-0"

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REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:

COLORADO LICENSED
JONATHAN LLOYD GALLAWAY
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
LOW ROOF FRAMING PLAN SOUTH

SHEET ID:
S202

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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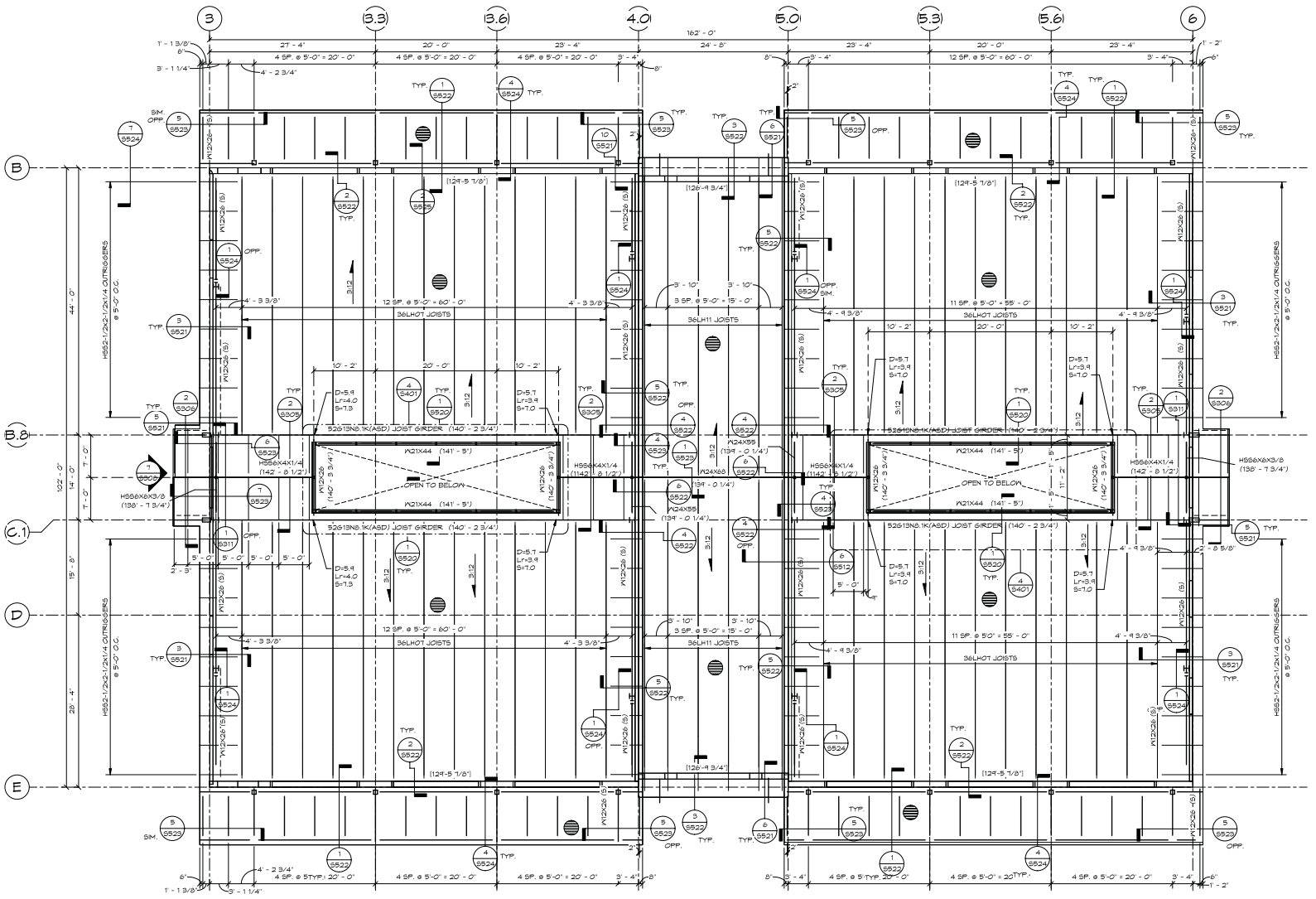

ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. ROOF DECK SHALL BE 1-1/2" 24 GUAGE TYPE B PRIMED ROOF DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8"Ø PUDDLE WELDS IN A 36/4 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.
2. ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 12 P.S.F.
3. EXTERIOR COLD-FORMED STEEL STUD WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD/OSB WITH THE LONGSIDE ORIENTED PERPENDICULAR TO THE STUDS. SHEATHING SHALL BE FASTENED TO THE STUDS WITH #12x2" SCREWS AT 6" O.C ON PANEL EDGES AND 12" O.C. IN PANEL FIELD.

LEGEND:

T.O.M.	TOP OF MASONRY
( )	INDICATES TOP OF STEEL ELEVATION
[ ]	INDICATES JOIST BEARING ELEVATION
(S)	INDICATES TOP OF STEEL BEAM SLOPES
	INDICATES DECK SPAN DIRECTION
	INDICATES CFS WALL STUD TYPE SEE S005
X	CFS OPENING SEE S005
	INDICATES BEAM SPLICE
	INDICATES MASONRY OPENING SEE S004

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
WILLIAM LLOYD GILLAM
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
HIGH ROOF FRAMING PLAN

SHEET ID:
S203

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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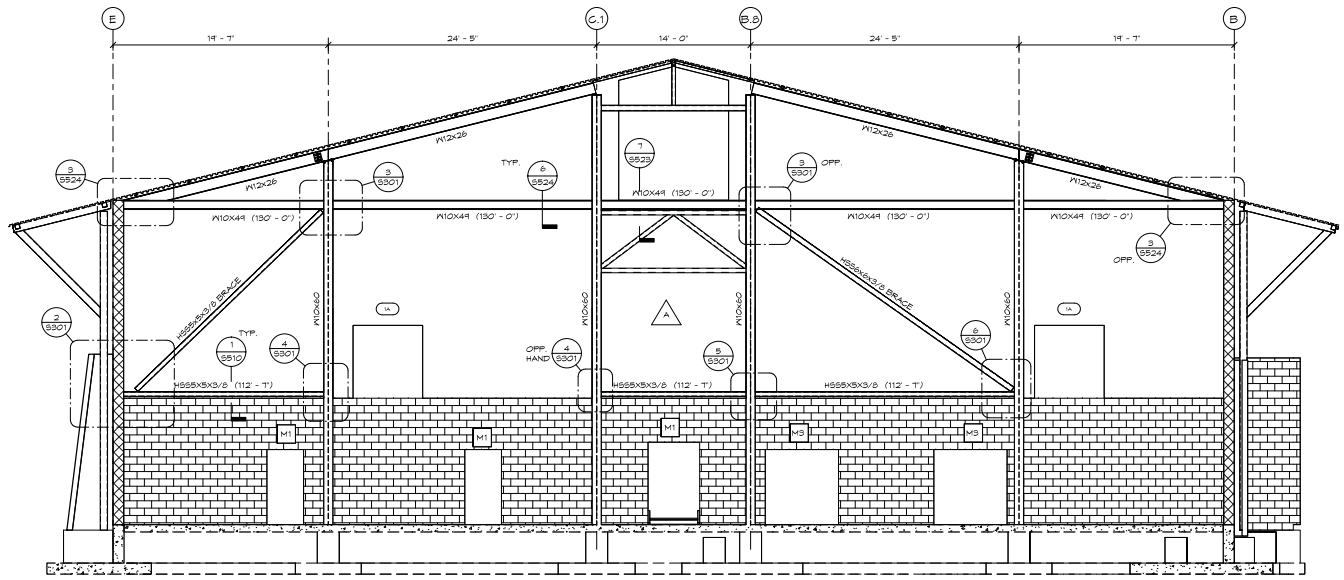
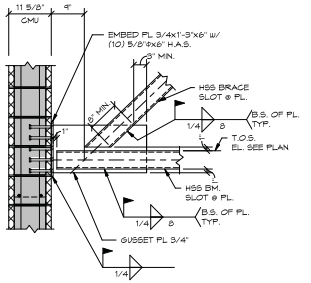


1 S301 3/16" = 1'-0"

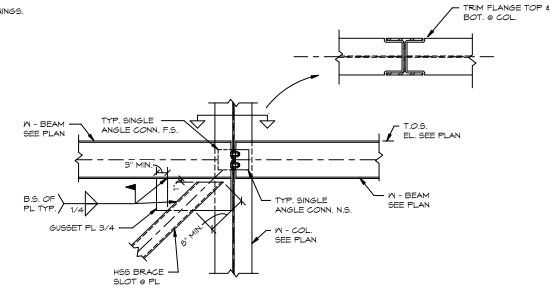
NOTES:
1. SEE ARCHITECTURAL DRAWING FOR RAILING AND INTERIOR FENCING INFORMATION. RAILING AND INTERIOR FENCING DESIGN SHALL BE BY OTHERS.
2. GANTRY CRANE FRAMING OMITTED FOR CLARITY.
3. COORDINATE ALL WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.

LEGEND:

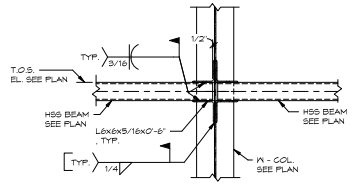
- X — INDICATES MASONRY OPENING SEE S004
- X — CFS OPENING SEE S005
- X — INDICATES CFS WALL STUD TYPE SEE S005



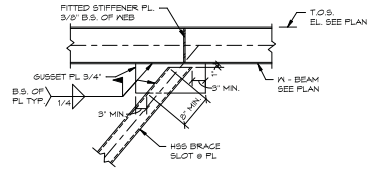
2 S301 3/4" = 1'-0"



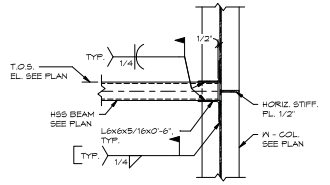
3 S301 3/4" = 1'-0"



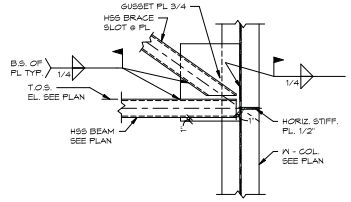
5 S301 3/4" = 1'-0"



7 S301 3/4" = 1'-0"



4 S301 3/4" = 1'-0"



6 S301 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL: COLORADO LICENSED JONATHAN LLOYD GALLAHAN 55103 11/21/2025 PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S301

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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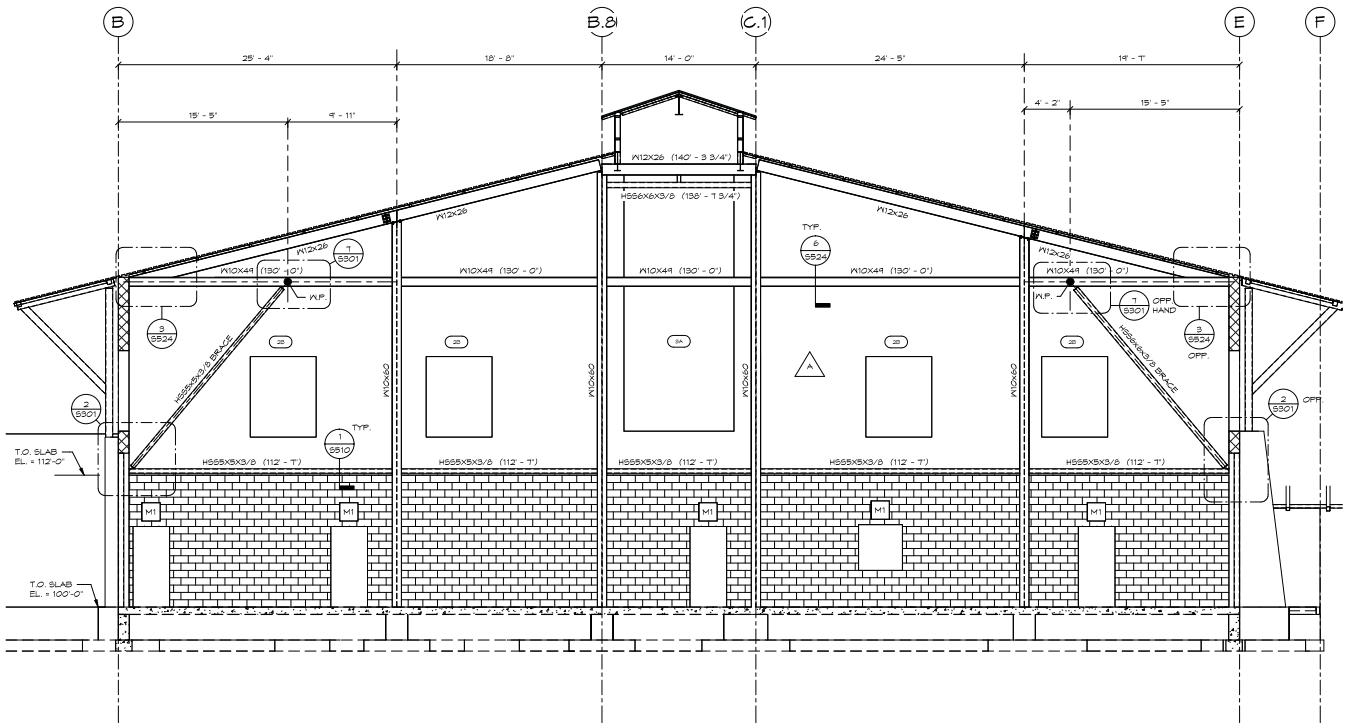

1 S302 3/16" = 1'-0"

NOTES:
1. COORDINATE ALL WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.

LEGEND:
- INDICATES MASONRY OPENING SEE S004
- CFS OPENING SEE S005
- INDICATES CFS WALL STUD TYPE SEE S005

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

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DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAM
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S302

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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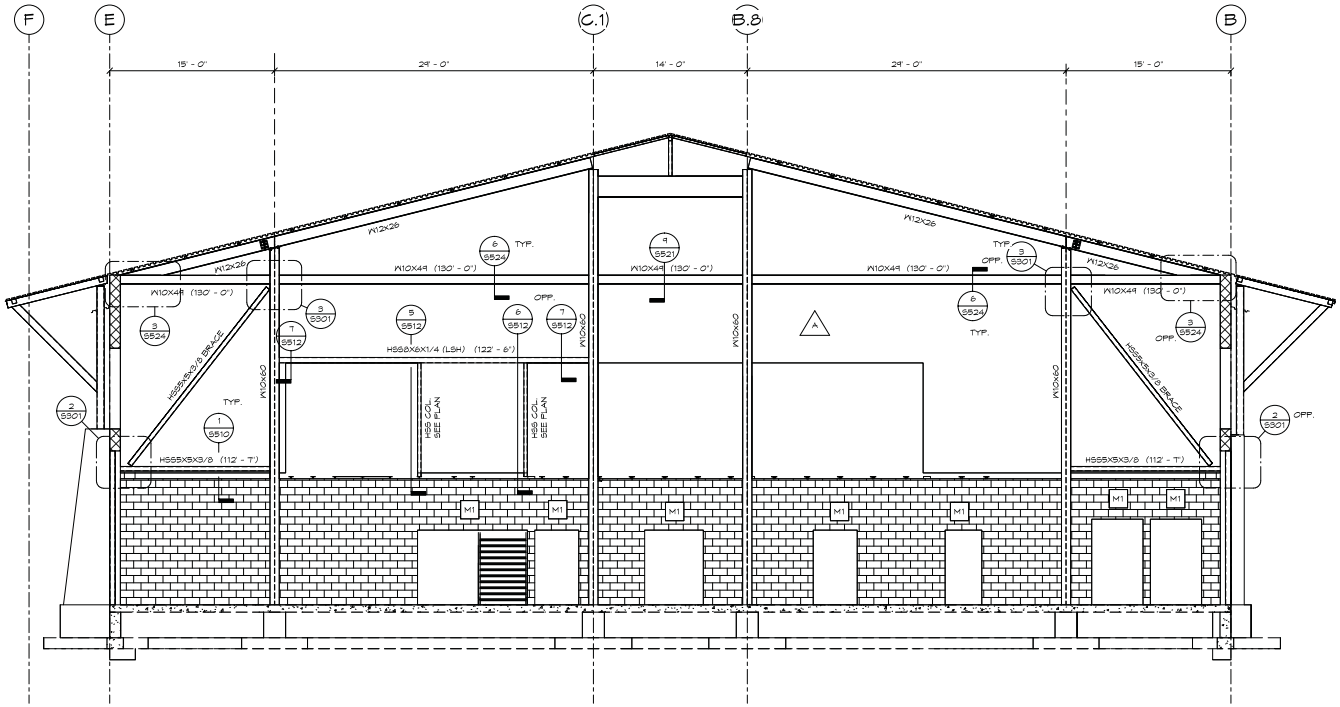

1 S303

3/16" = 1'-0"

NOTES:
1. SEE ARCHITECTURAL DRAWING FOR RAILING AND INTERIOR FENCING INFORMATION. RAILING AND INTERIOR FENCING DESIGN SHALL BE BY OTHERS.
2. COORDINATE ALL WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.

LEGEND:

- [X] INDICATES MASONRY OPENING SEE S004
- (X) CFS OPENING SEE S005
- △A INDICATES CFS WALL STUD TYPE SEE S005

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
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DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S303

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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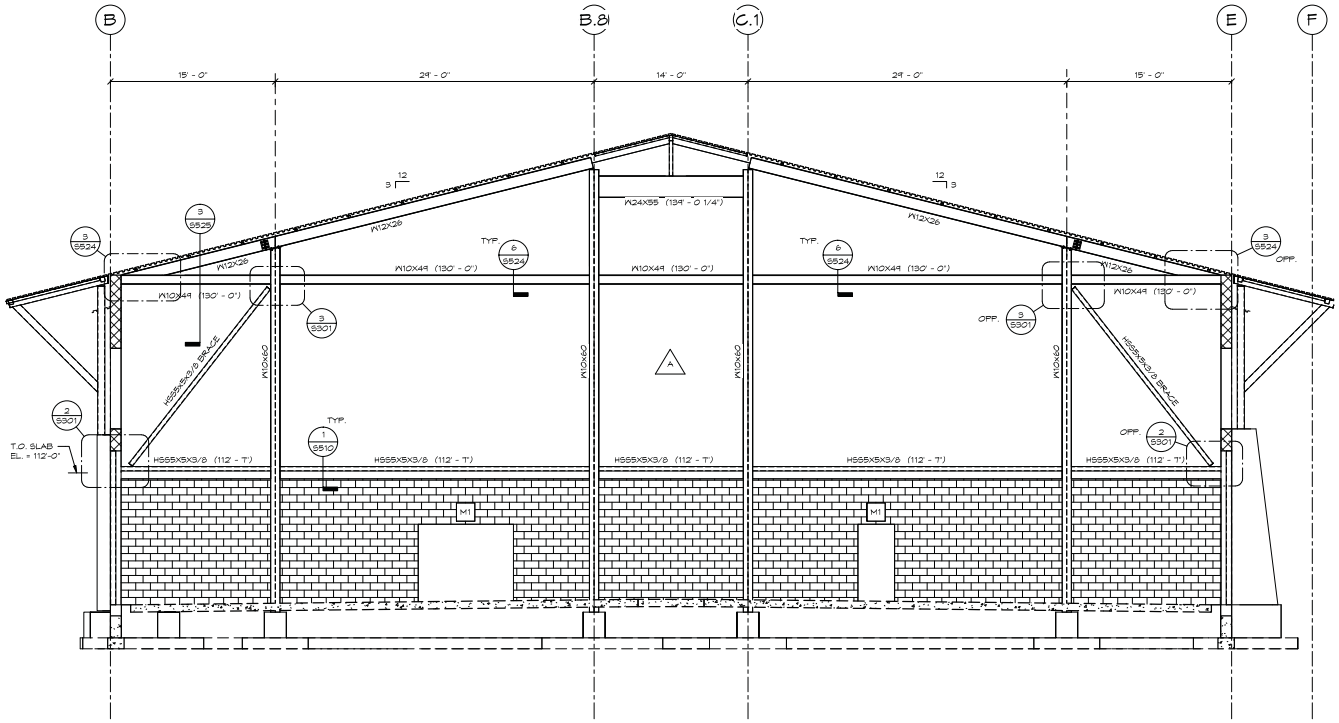

1 S304 3/16" = 1'-0"

NOTES:
1. COORDINATE ALL WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.
2. GANTRY CRANE FRAMING OMITTED FOR CLARITY.

LEGEND:

- ⊠ INDICATES MASONRY OPENING SEE S004
- ⬭ CFS OPENING SEE S005
- △ INDICATES CFS WALL STUD TYPE SEE S005

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PROJECT TITLE:
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DESIGNED BY:	JLC

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SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S304

PROJECT STATUS:
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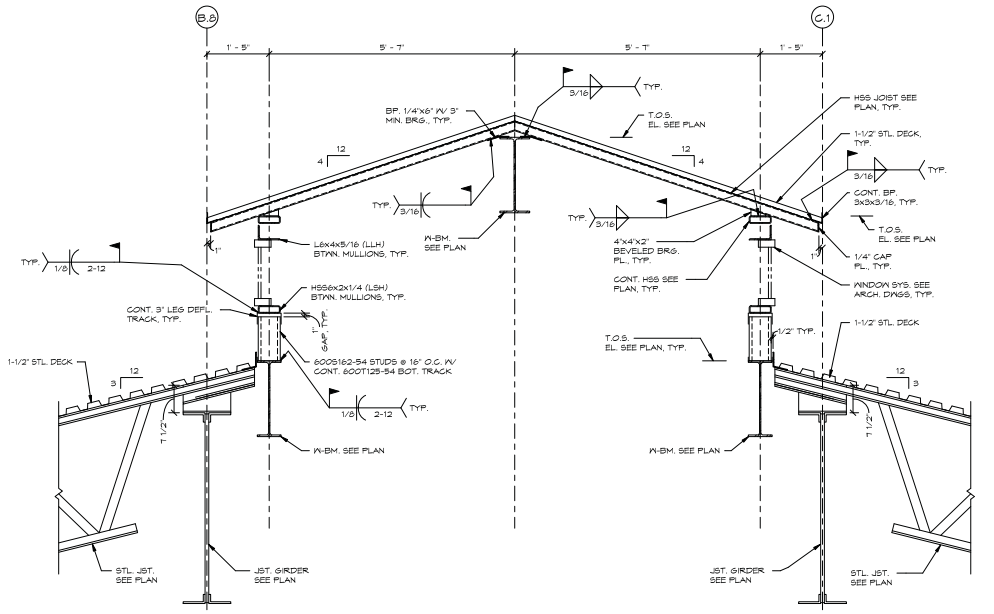
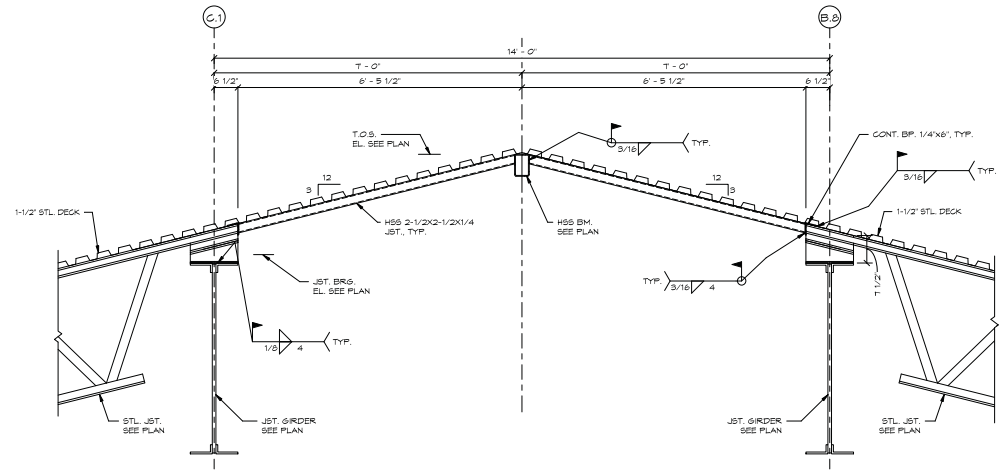
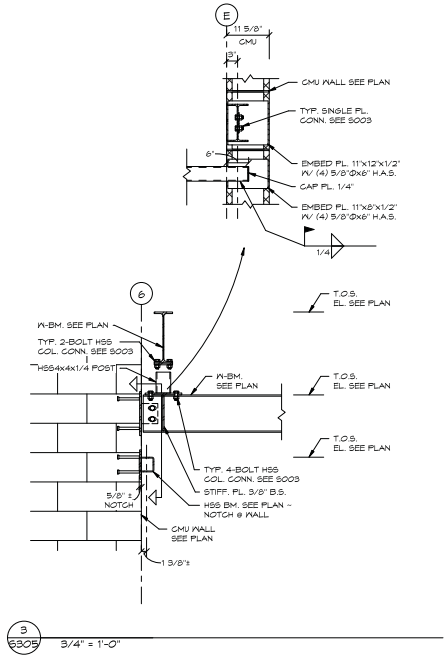


1 S305 3/4" = 1'-0"



2 S305 3/4" = 1'-0"



3 S305 3/4" = 1'-0"

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SEAL:
COLORADO LICENSED
55103
11/21/2025
JOSHUA LLOYD CLAY
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S305

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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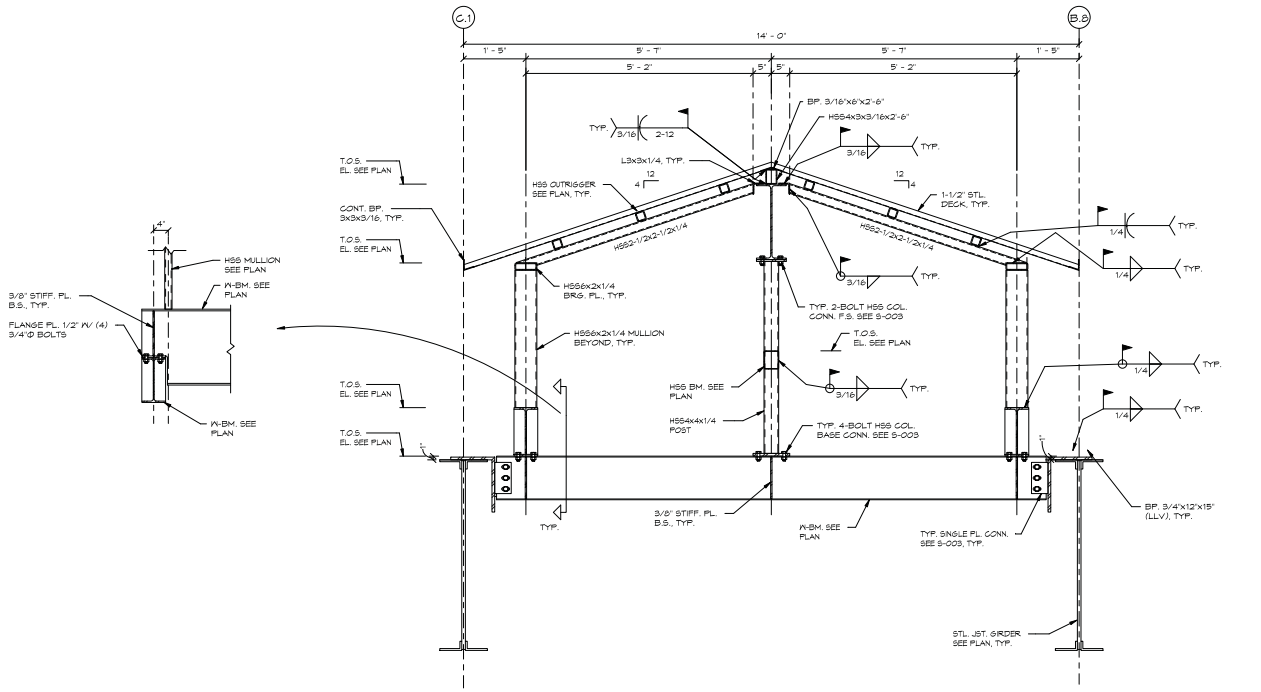
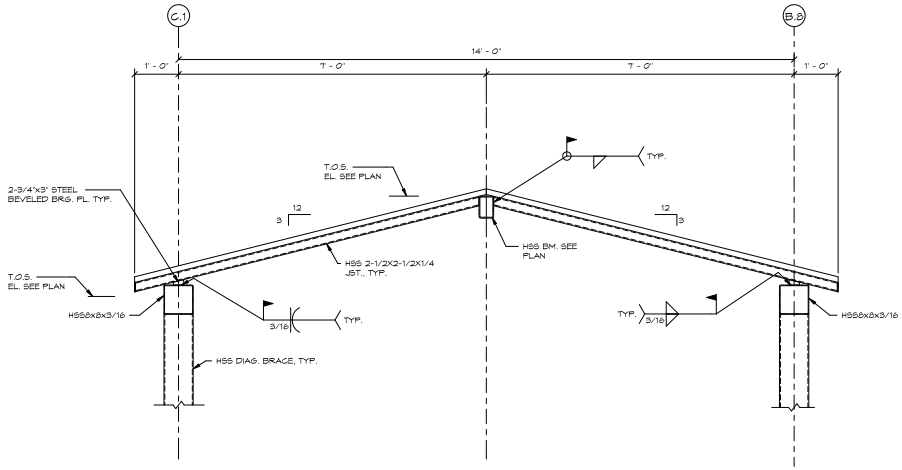


1 S306 3/4" = 1'-0"



2 S306 3/4" = 1'-0"

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COLORADO LICENSED
JONATHAN LLOYD CULLAN
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S306

PROJECT STATUS:
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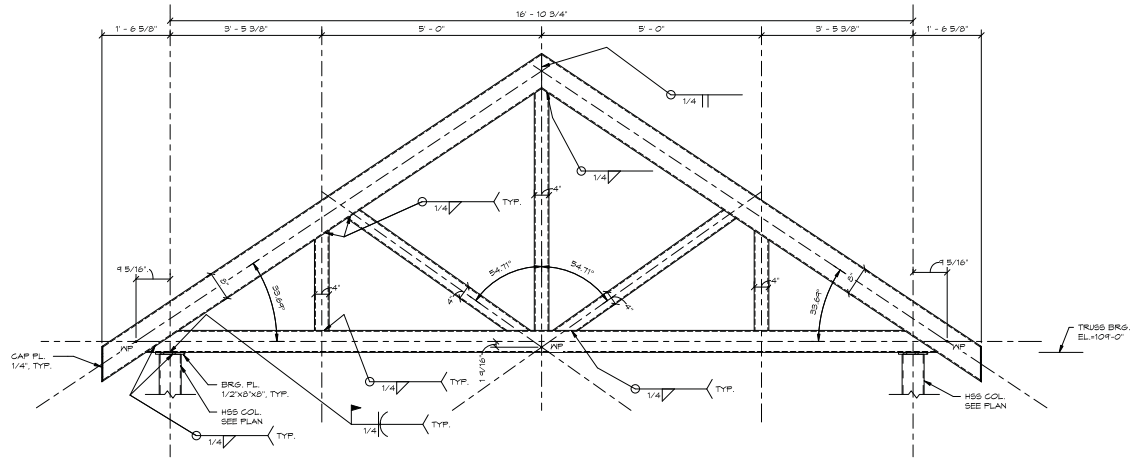
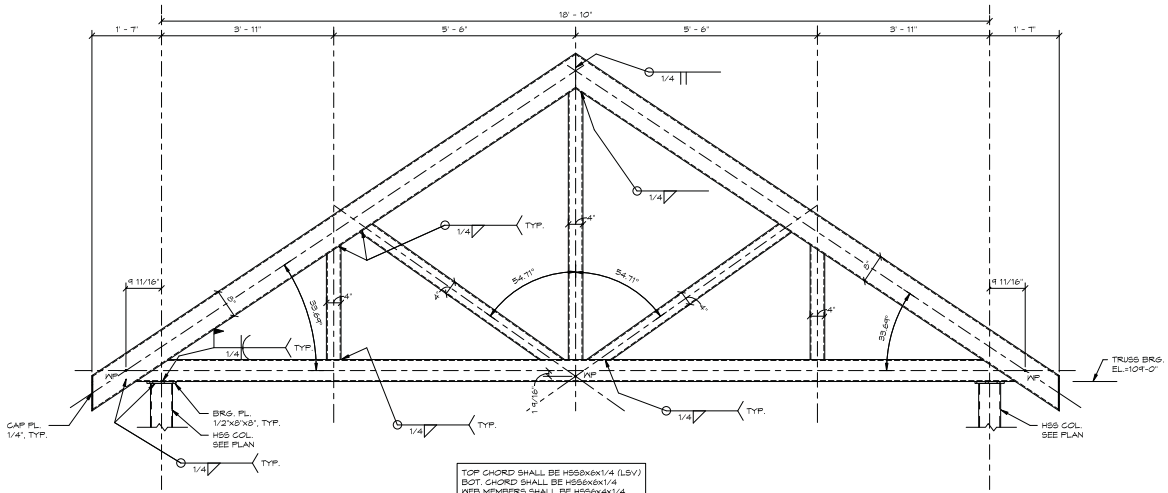


TOP CHORD SHALL BE HSS6x6x1/4 (LSV)
BOT. CHORD SHALL BE HSS6x6x1/4
WEB MEMBERS SHALL BE HSS6x4x1/4

2 S307 3/4" = 1'-0"



TOP CHORD SHALL BE HSS6x6x1/4 (LSV)
BOT. CHORD SHALL BE HSS6x6x1/4
WEB MEMBERS SHALL BE HSS6x4x1/4

3 S307 3/4" = 1'-0"

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PROJECT TITLE:
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JONATHAN LLOYD GILLARD
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S307

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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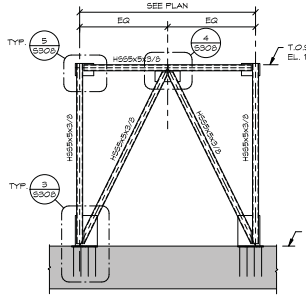
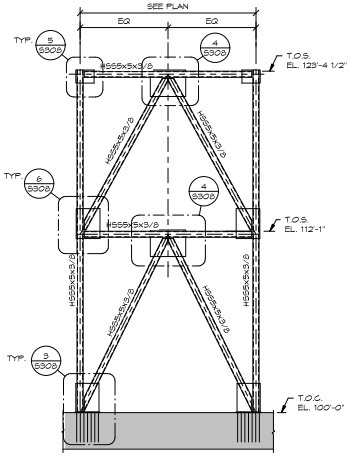
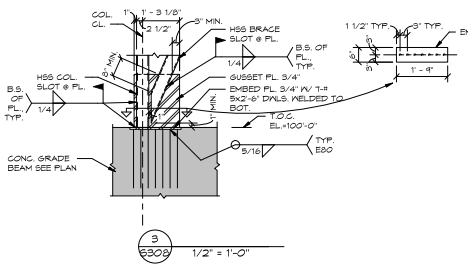


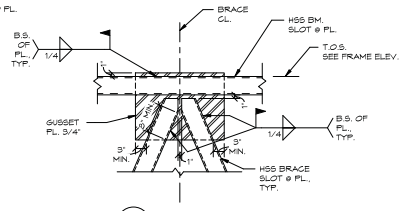
1 S308 1/4" = 1'-0"



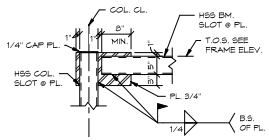
2 S308 1/4" = 1'-0"



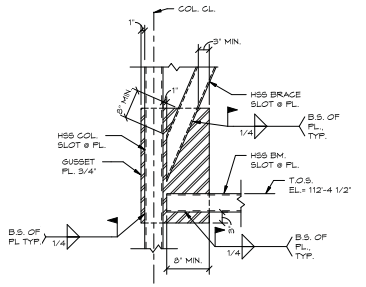
3 S308 1/2" = 1'-0"



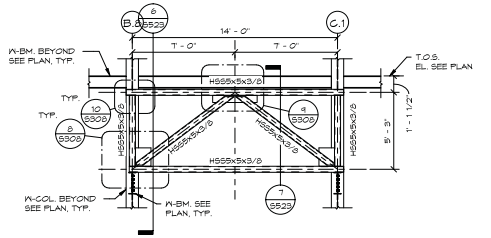
4 S308 3/4" = 1'-0"



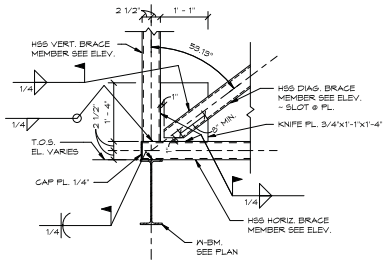
5 S308 3/4" = 1'-0"



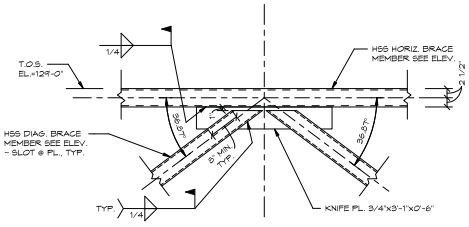
6 S308 3/4" = 1'-0"



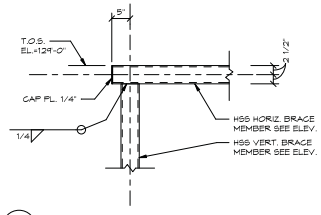
7 S308 1/4" = 1'-0"



8 S308 3/4" = 1'-0"



9 S308 3/4" = 1'-0"



10 S308 3/4" = 1'-0"

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www.mgase.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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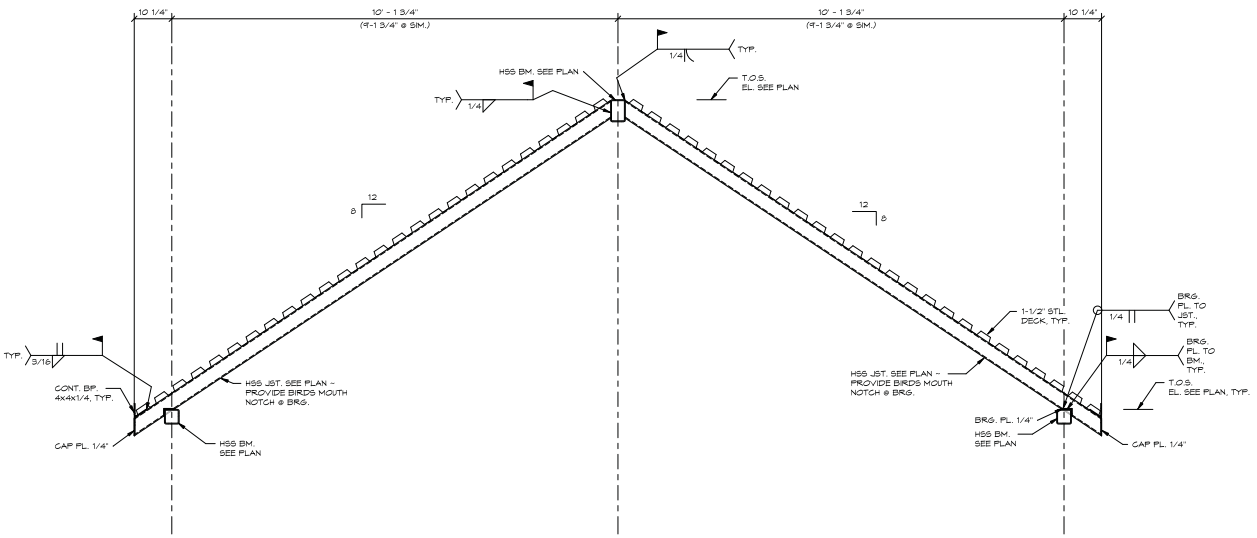
SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAWAY
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
BRACE FRAME ELEVATIONS & DETAILS

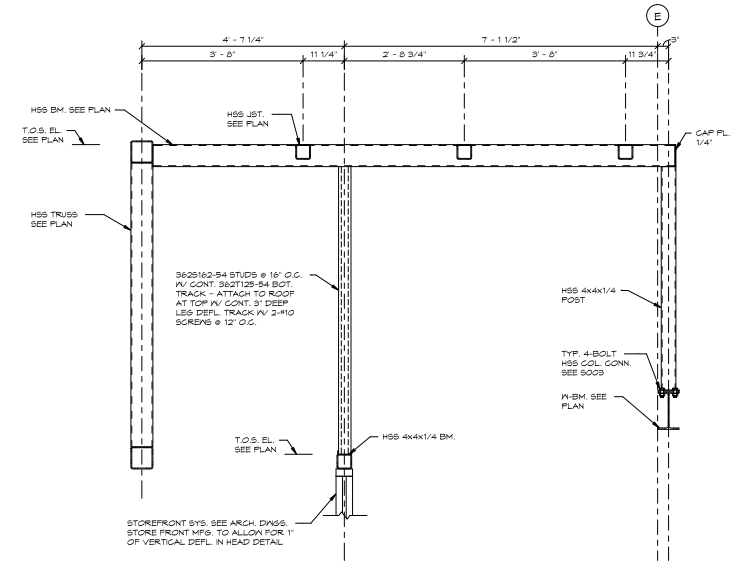
SHEET ID:
S308

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

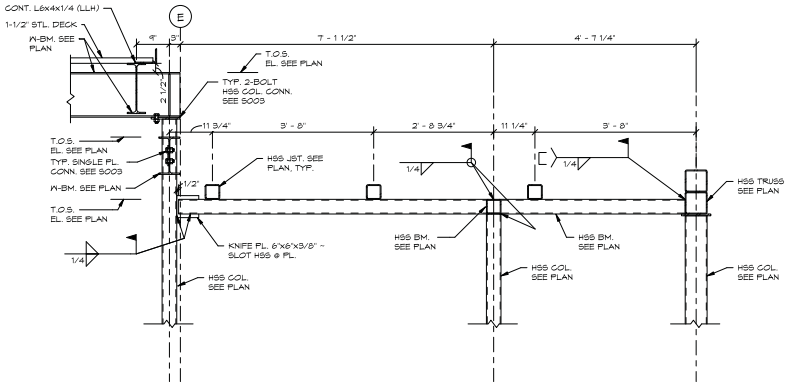
11/20/2025 1:53:08 PM Autodesk Docs://16323_Castle Rock Fire Station 156 & Fleet Facility/24099-MGA-Castle Rock Fire and Fleet-R24_v4



1
6309
3/4" = 1'-0"



2
6309
3/4" = 1'-0"



3
6309
3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC
PROJECT NUMBER:	20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAWAY
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S309

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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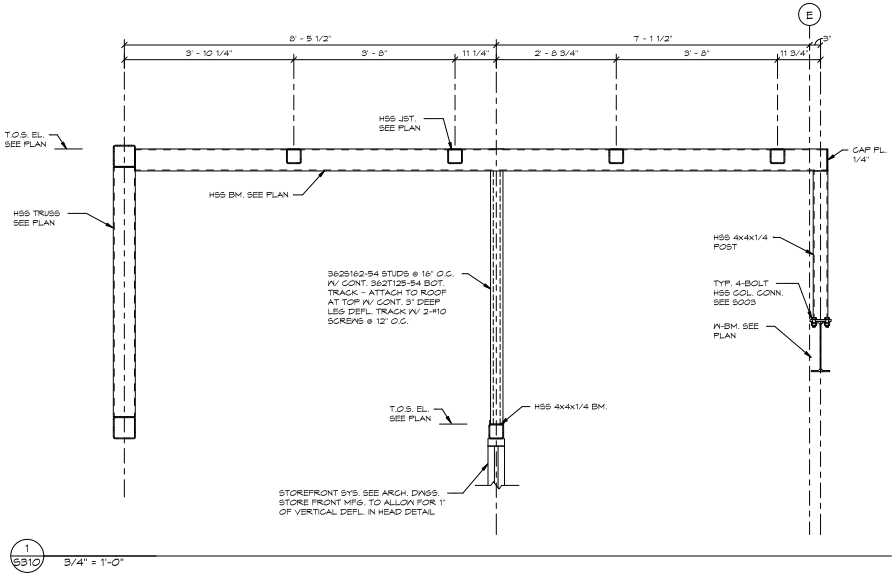
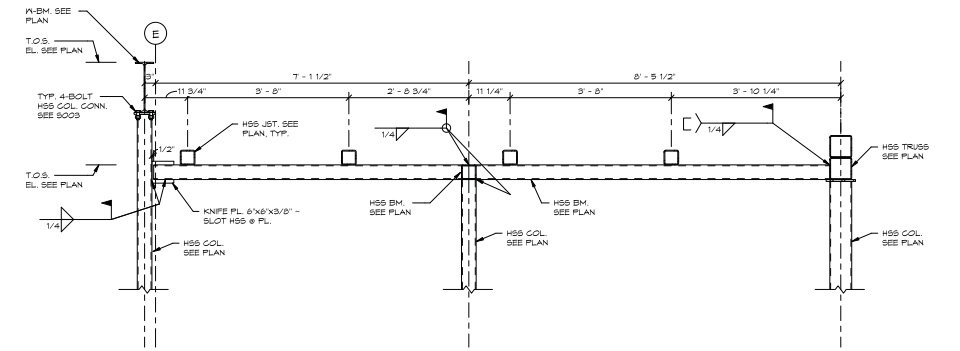


1 S310 3/4" = 1'-0"



2 S310 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
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11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S310

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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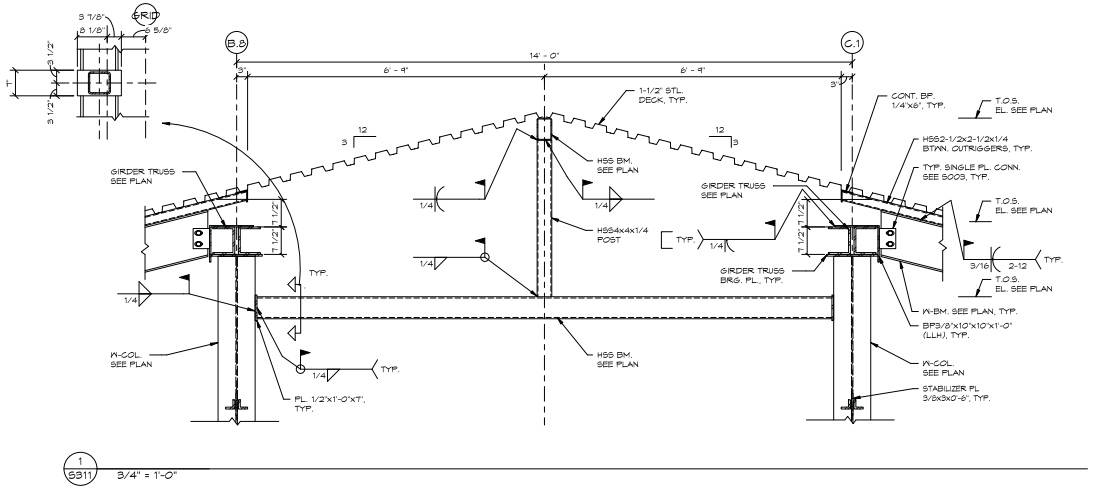

1 S311 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:

COLORADO LICENSED
JOANNA LLOYD GILLHAM
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL ELEVATIONS

SHEET ID:
S311

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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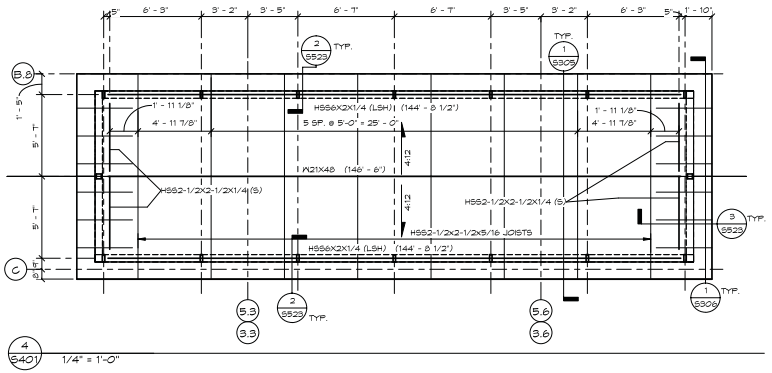
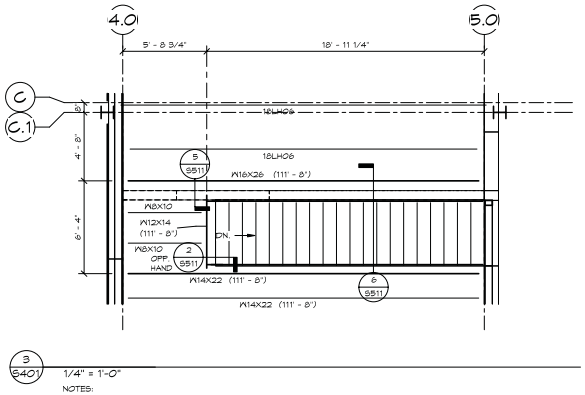


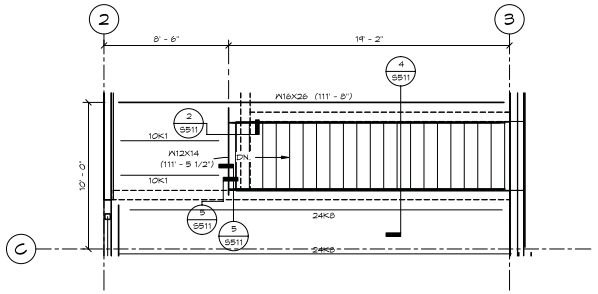
4 S401 1/4" = 1'-0"

NOTES:
1. ROOF DECK SHALL BE 1-1/2" 24 GUAGE TYPE B PRIMED ROOF DECK. DECK SHALL BE ATTACHED TO SUPPORTS WITH #12 SCREWS IN A 36/7 PATTERN. PROVIDE 2-#10 SCREW SIDE LAP FASTENERS PER SPAN.



3 S401 1/4" = 1'-0"

NOTES:
1. STAIR STRINGERS SHALL BE HSS12x2x5/16 U.N.O.
2. SEE ARCHITECTURAL DRAWINGS FOR TREAD, RISER AND RAILING INFORMATION.



2 S401 1/4" = 1'-0"

NOTES:
1. STAIR STRINGERS SHALL BE HSS12x2x5/16 U.N.O.
2. SEE ARCHITECTURAL DRAWINGS FOR TREAD, RISER AND RAILING INFORMATION.

8 0 8 16
SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAHAN
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
PARTIAL FRAMING PLANS

SHEET ID:
S401

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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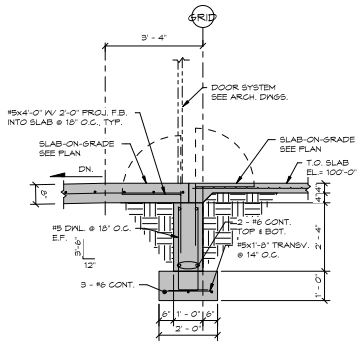
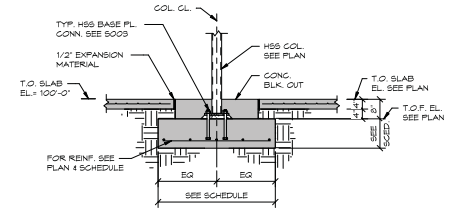
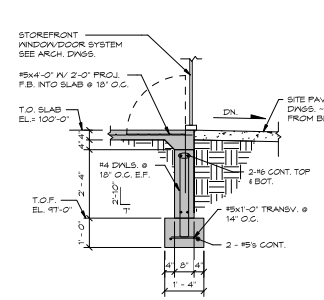


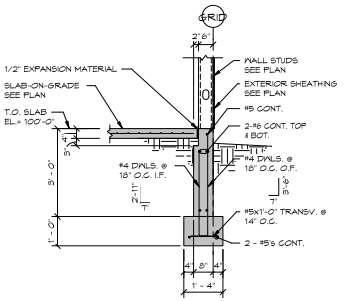
1 S501 1/2" = 1'-0"



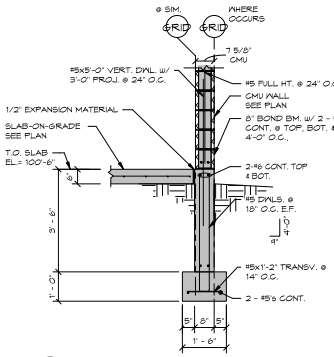
2 S501 1/2" = 1'-0"



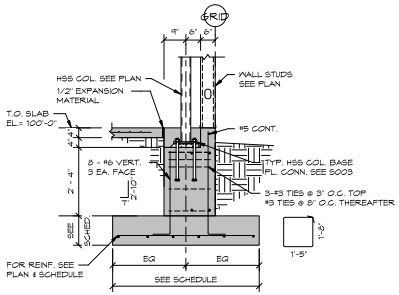
3 S501 1/2" = 1'-0"



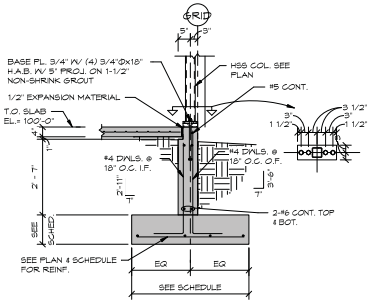
4 S501 1/2" = 1'-0"



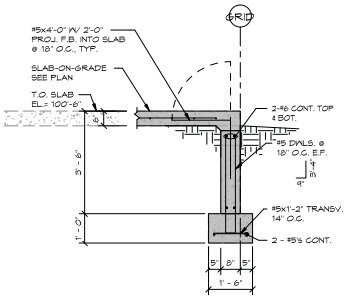
5 S501 1/2" = 1'-0"



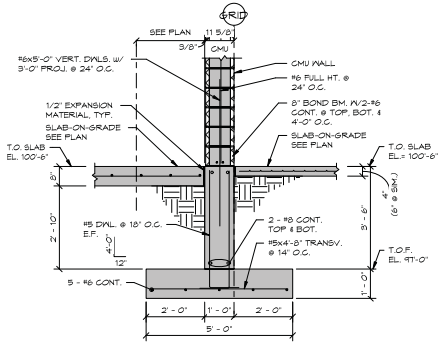
6 S501 1/2" = 1'-0"



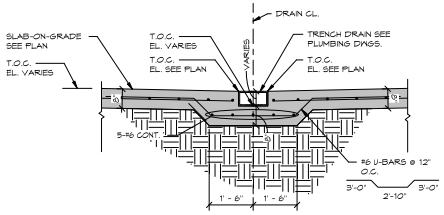
7 S501 1/2" = 1'-0"



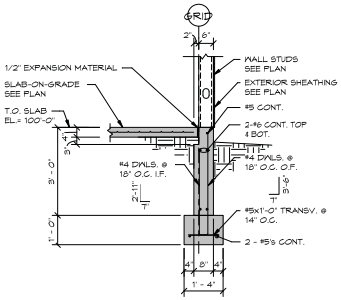
8 S501 1/2" = 1'-0"



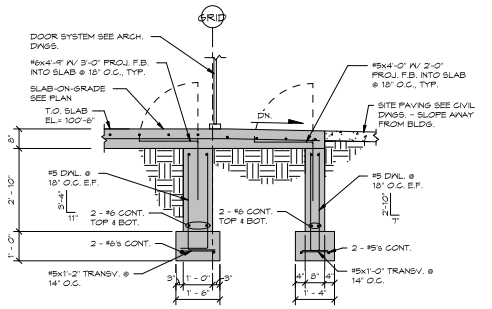
9 S501 1/2" = 1'-0"



10 S501 1/2" = 1'-0"



11 S501 1/2" = 1'-0"



12 S501 1/2" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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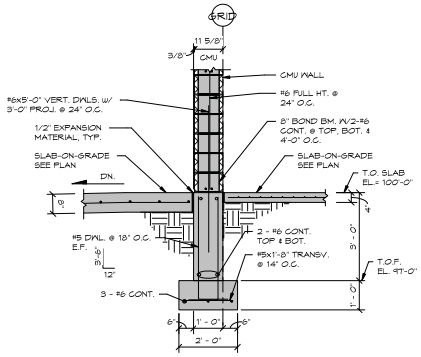
SEAL:
COLORADO LICENSED JONATHAN LLOYD GALLAGHER 55103 11/21/2025 PROFESSIONAL ENGINEER

SHEET TITLE:
FOUNDATION DETAILS

SHEET ID:
S501

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

11/20/2025 1:53:09 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/24099-MGA-Castle Rock Fire and Fleet-S24.rvt



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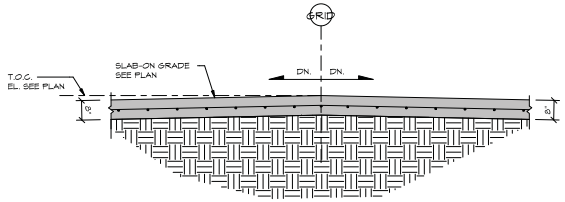

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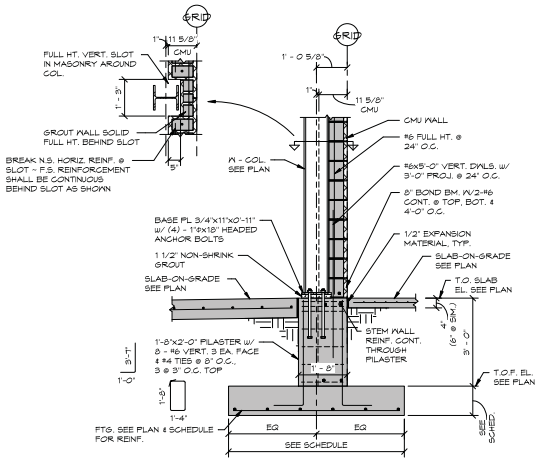

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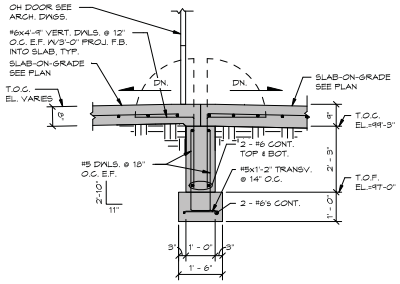

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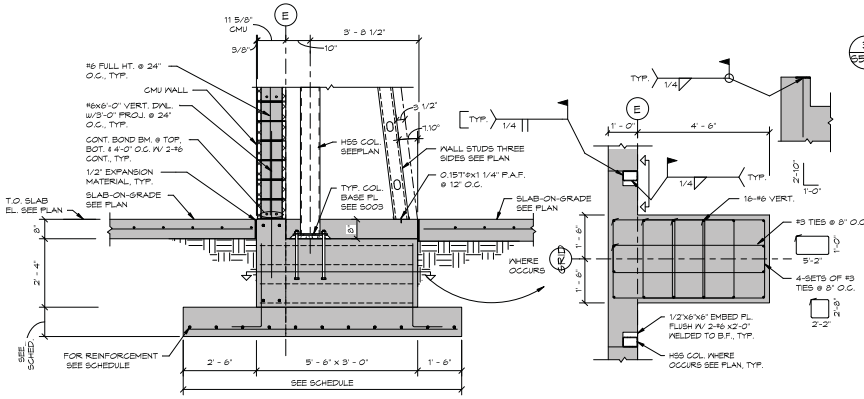

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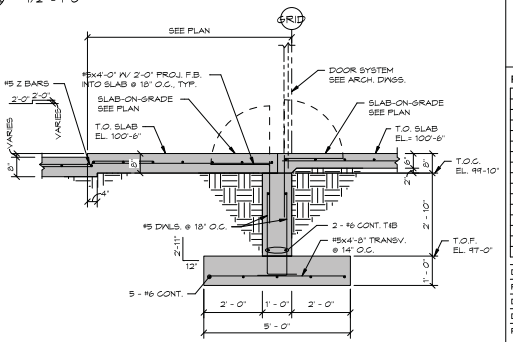

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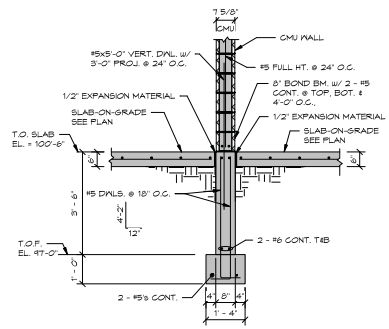

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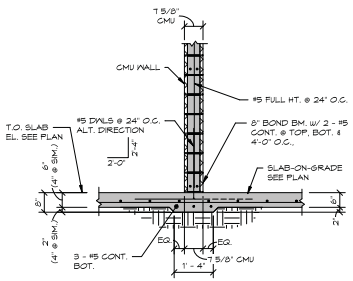

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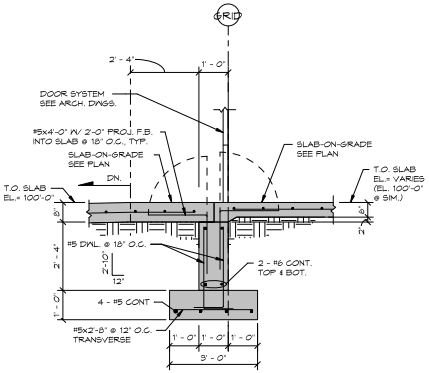

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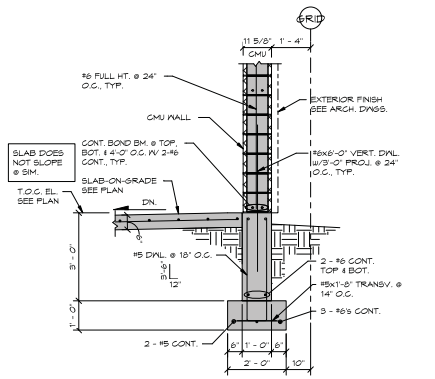

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COLORADO SPRINGS, CO 80903-1900
(719) 633-4073
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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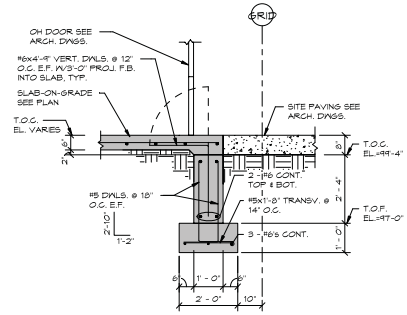
SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAWAY
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
FOUNDATION DETAILS

SHEET ID:
S502

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



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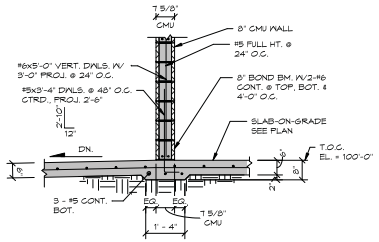

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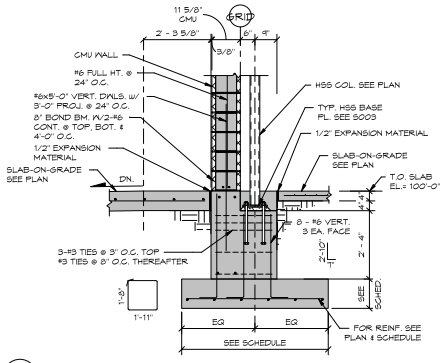

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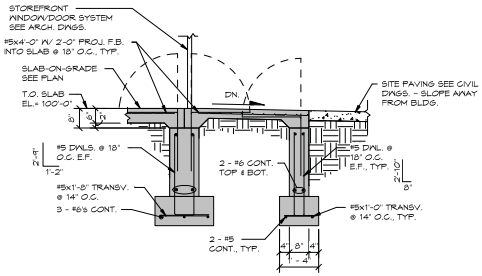

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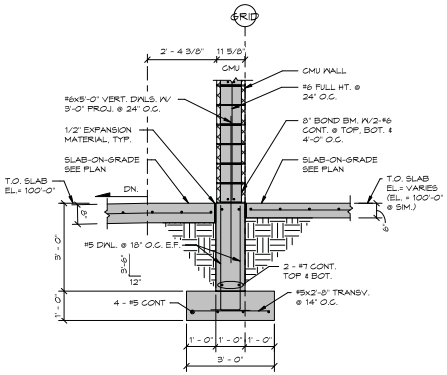

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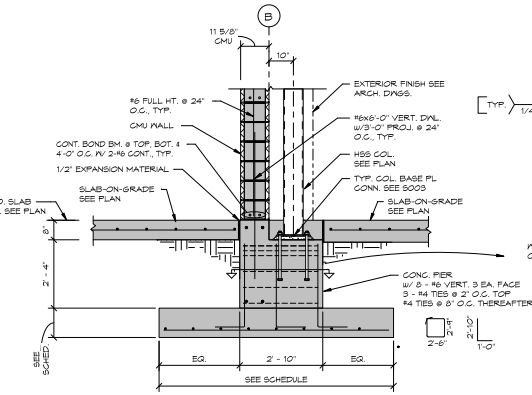

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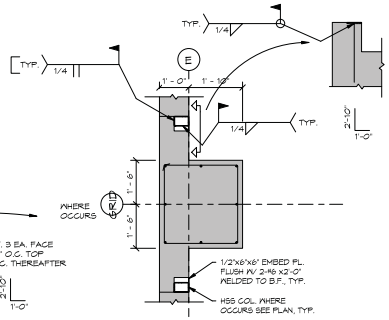

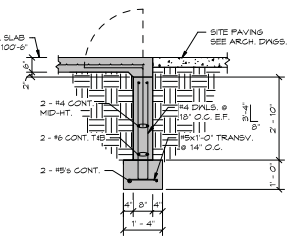

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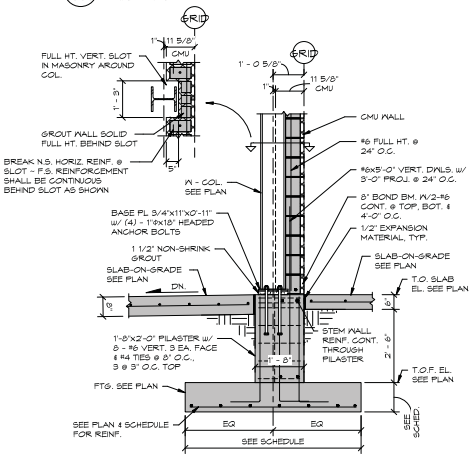

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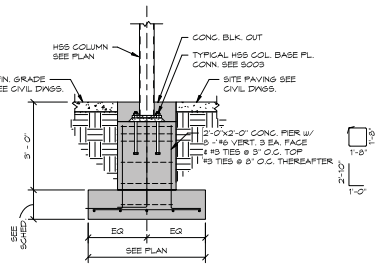

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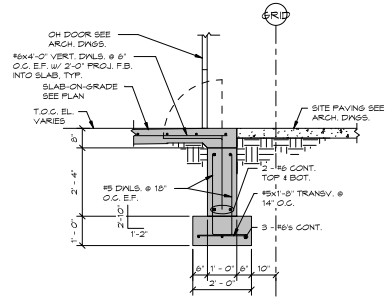

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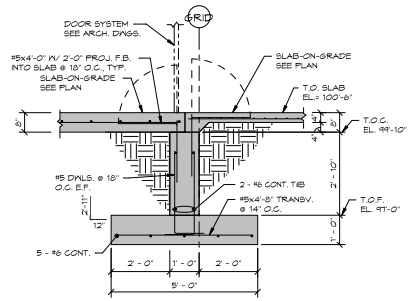

10 S503 1/2" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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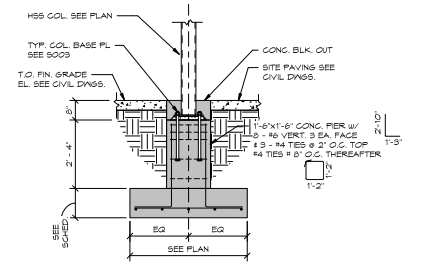

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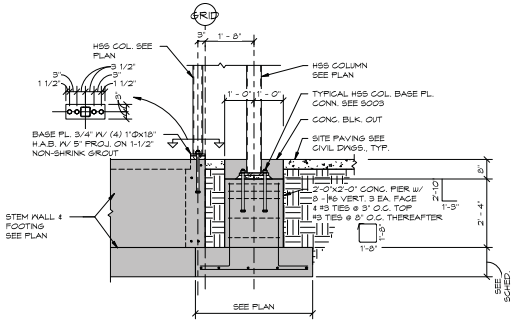

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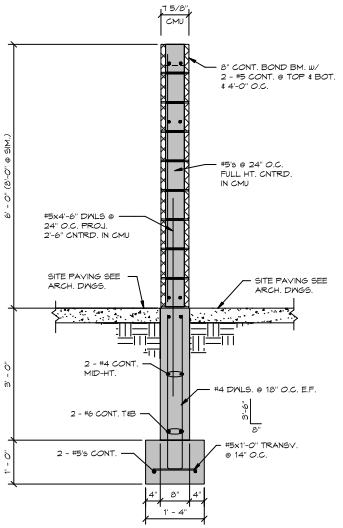

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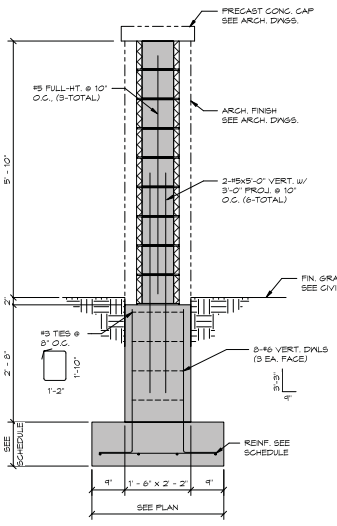

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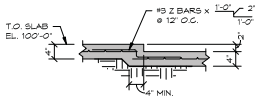

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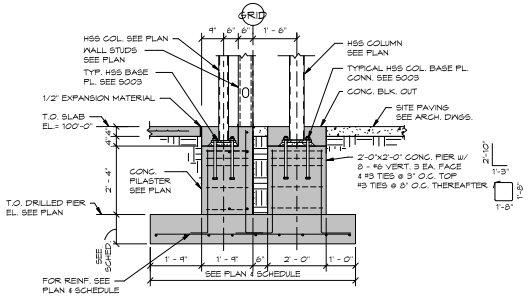

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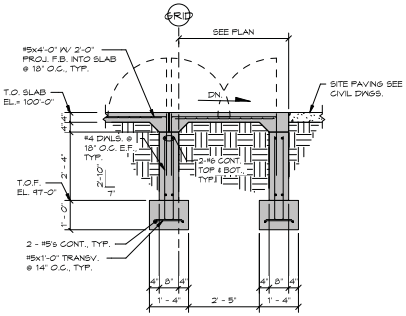

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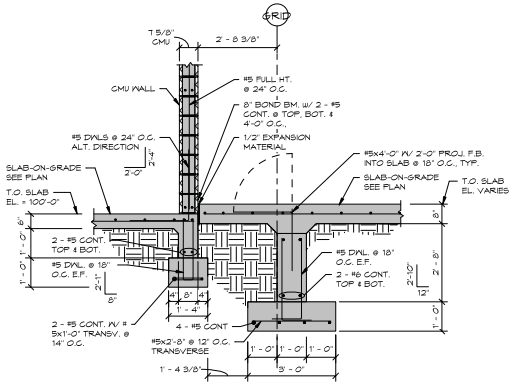

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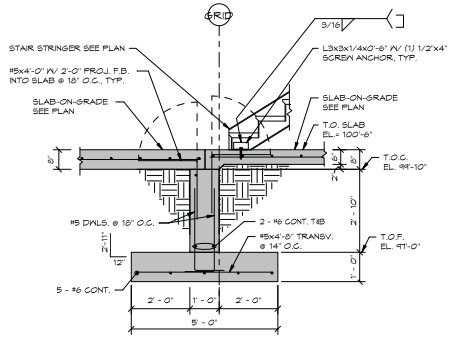

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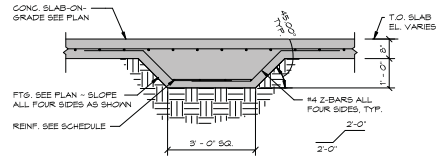

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAHER
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
FOUNDATION DETAILS

SHEET ID:
S504

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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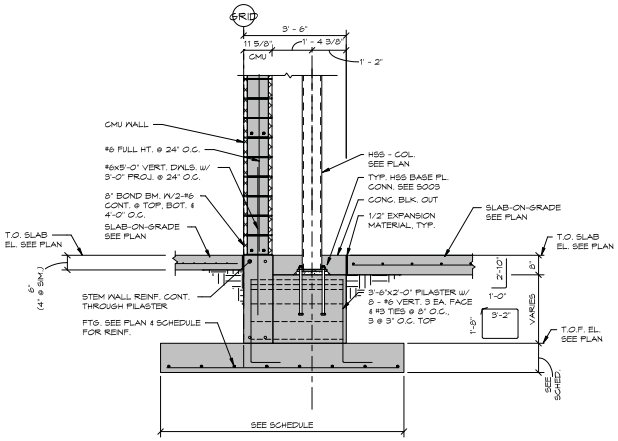

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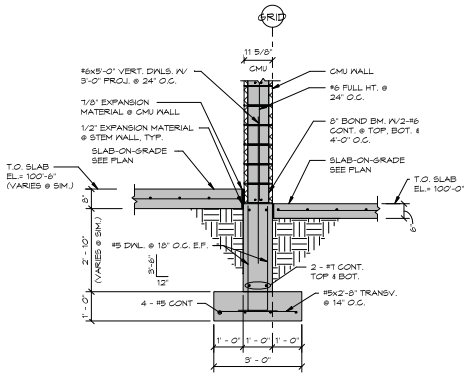

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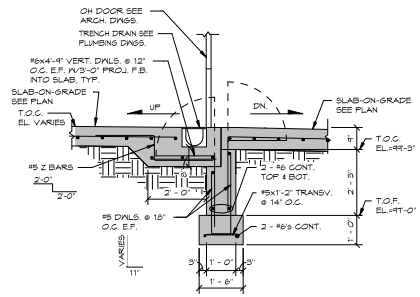

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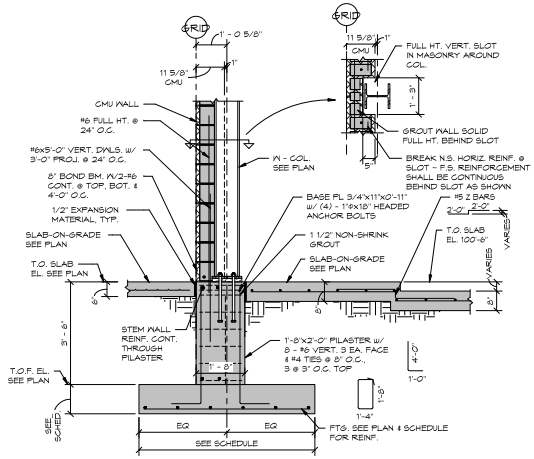

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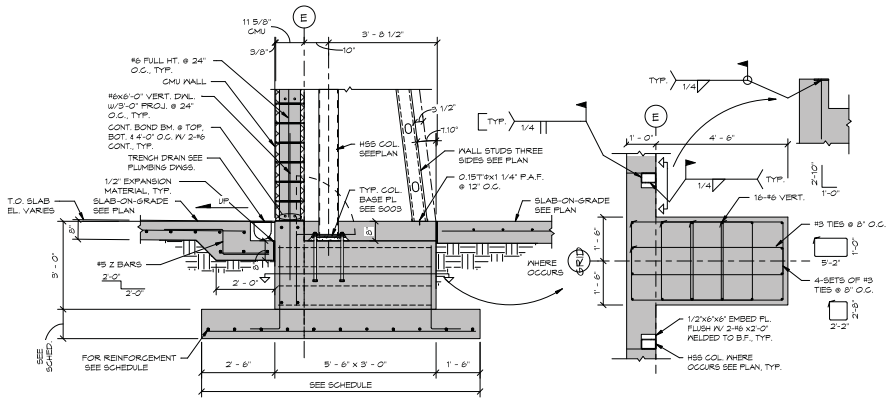

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JONATHAN LLOYD GALLAM
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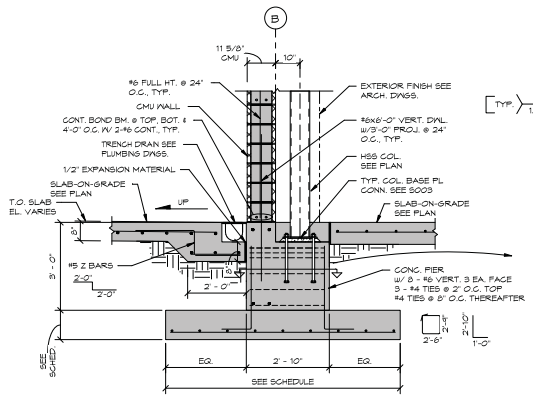

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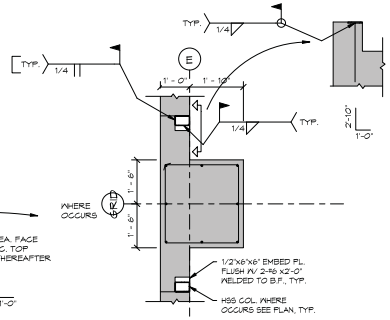

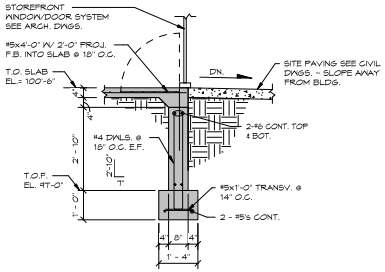

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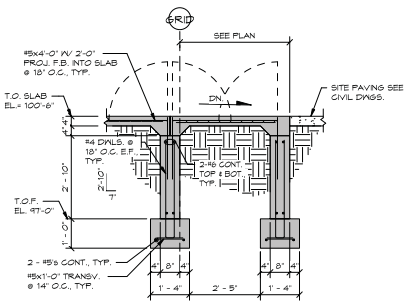

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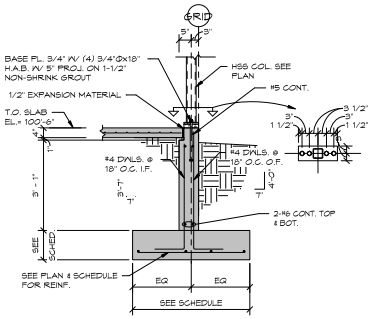

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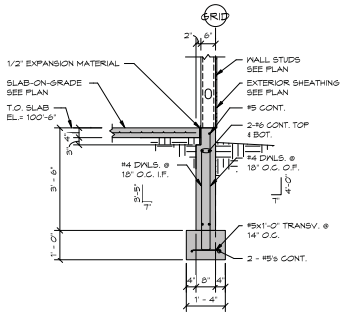

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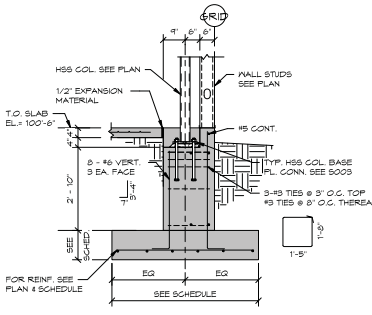

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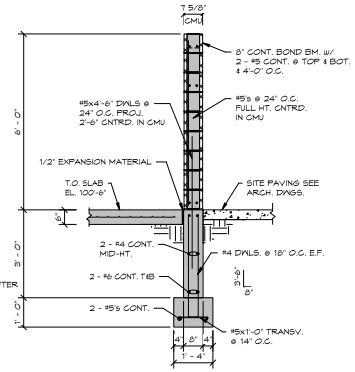

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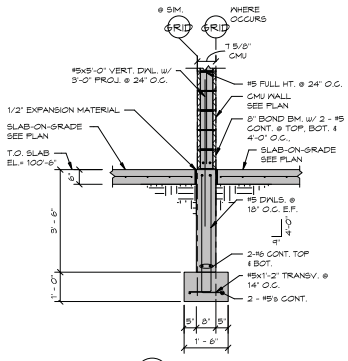

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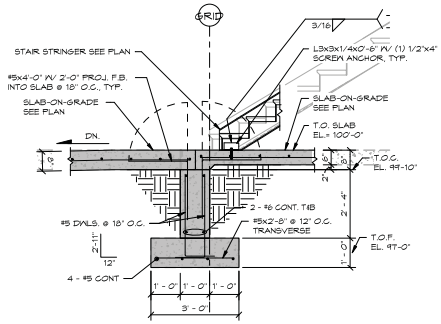

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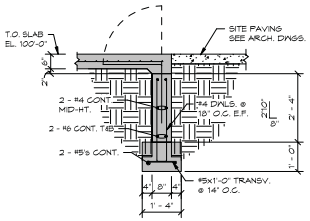

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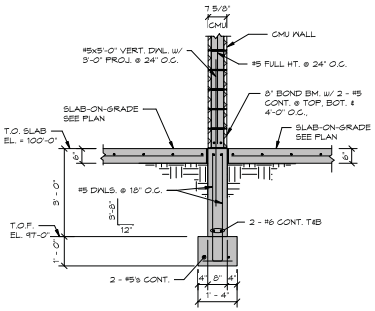

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CONSTRUCTION DOCUMENTS

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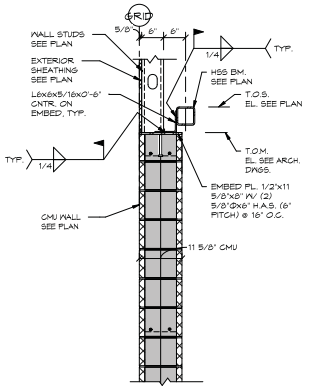

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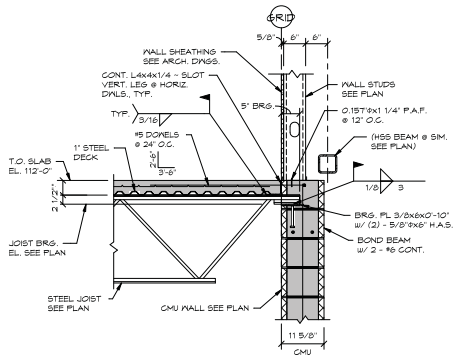

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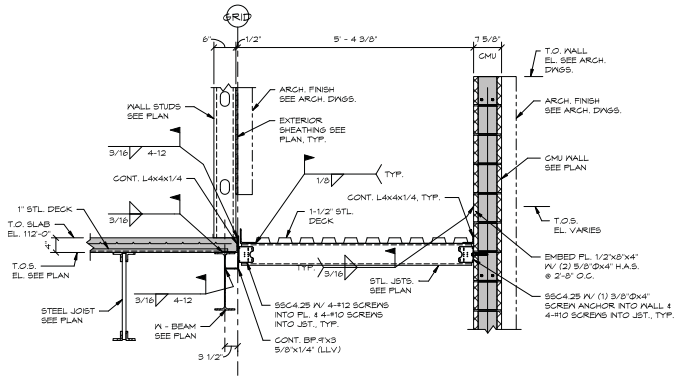

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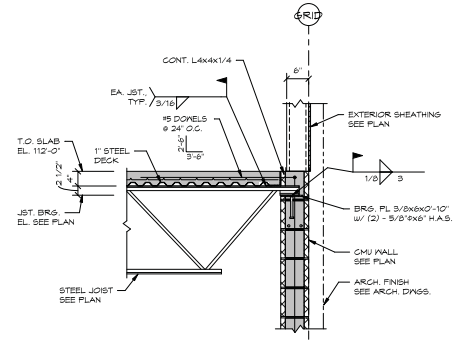

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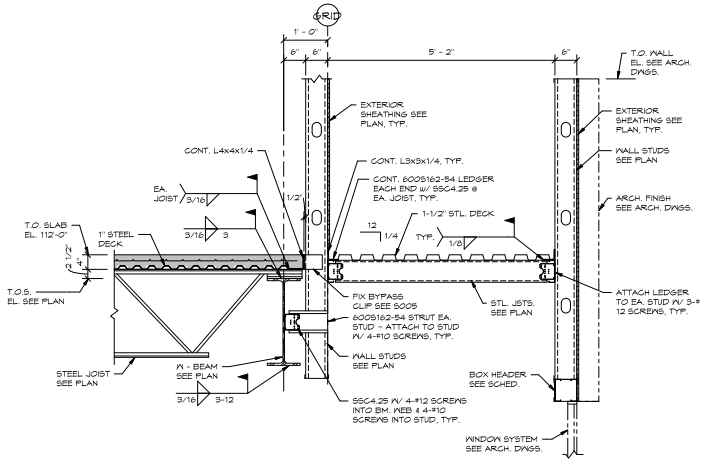

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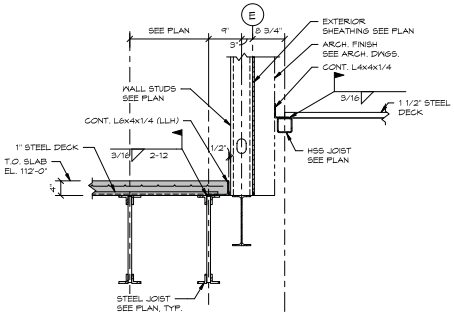

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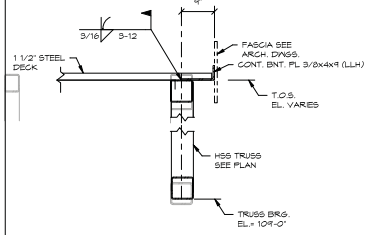

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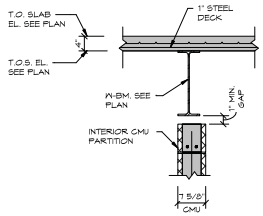

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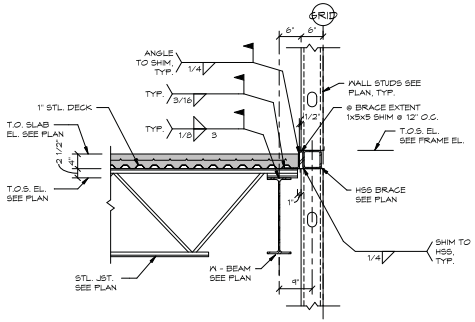

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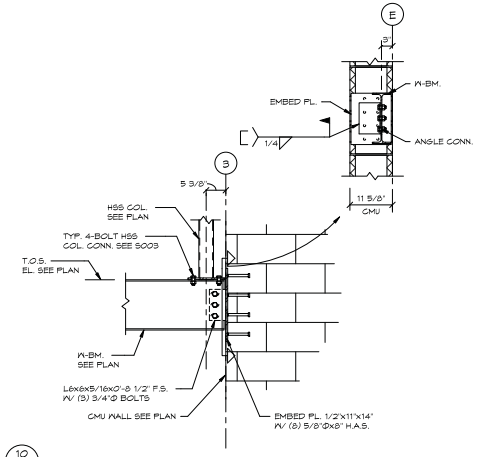

10 S510 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:

COLORADO LICENSED JONATHAN LLOYD CALLAWAY 55103 11/21/2025 PROFESSIONAL ENGINEER

SHEET TITLE:
FLOOR FRAMING DETAILS

SHEET ID:
S510

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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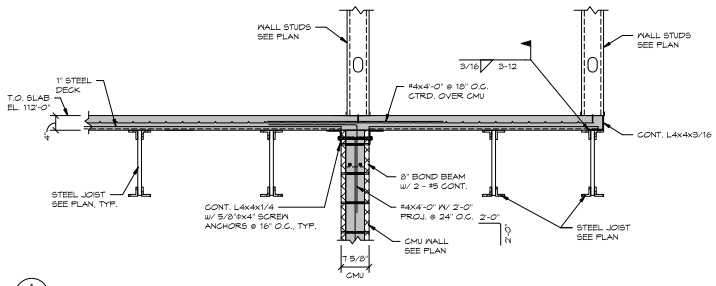

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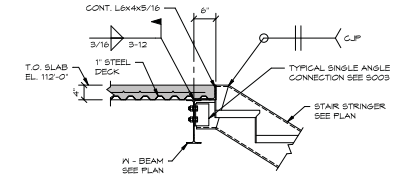

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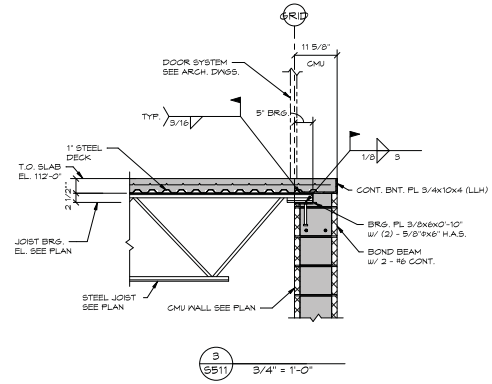

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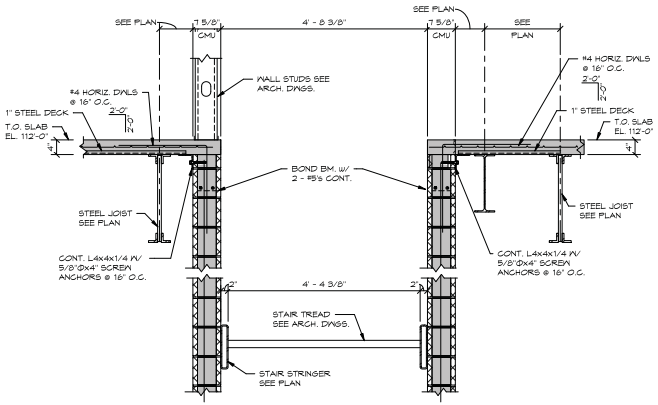

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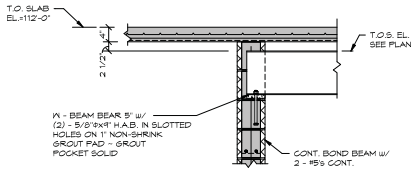

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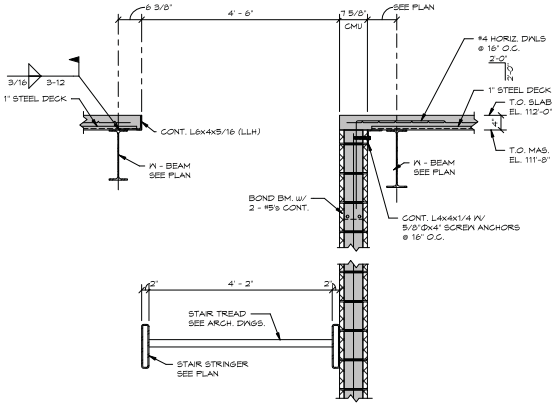

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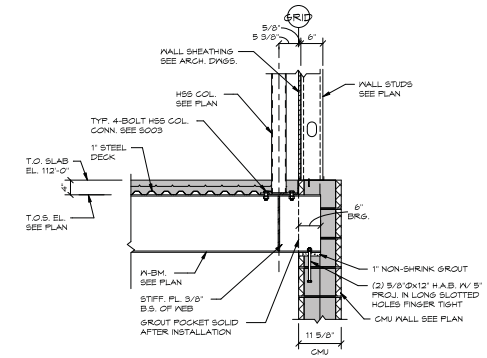

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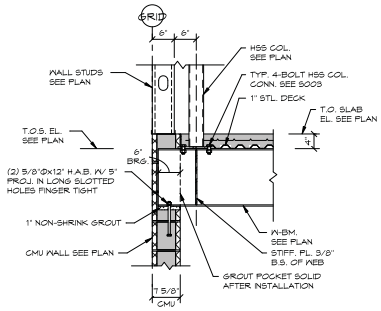

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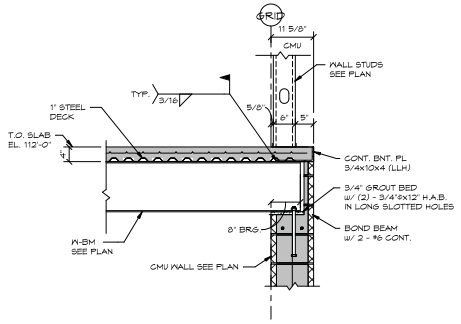

9 S511 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
WILLIAM LLOYD GALLAWAY
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
FLOOR FRAMING DETAILS

SHEET ID:
S511

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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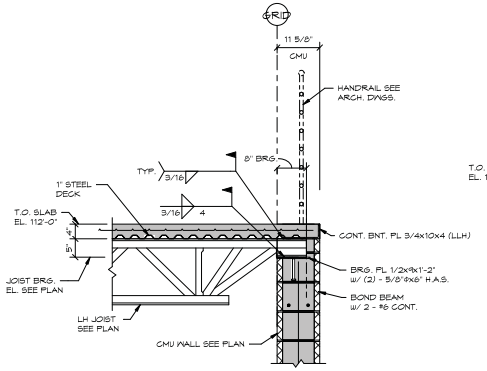

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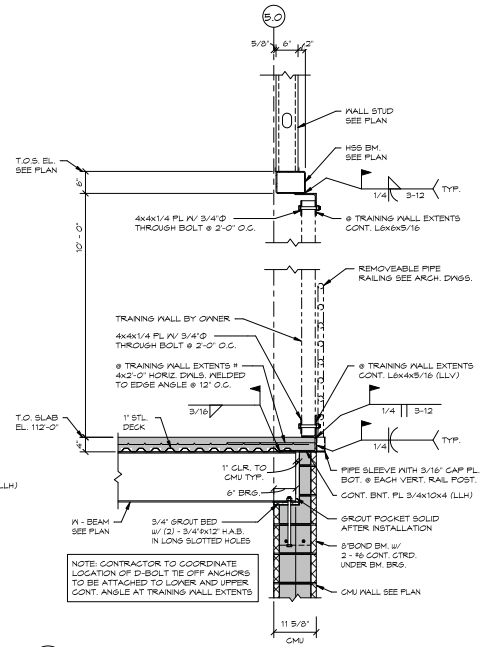

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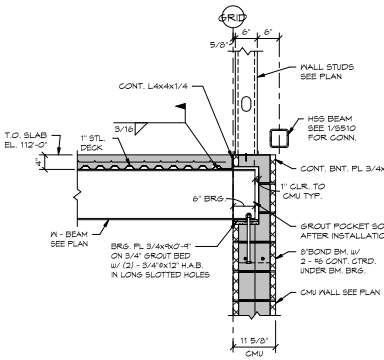

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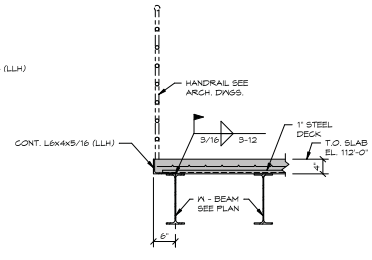

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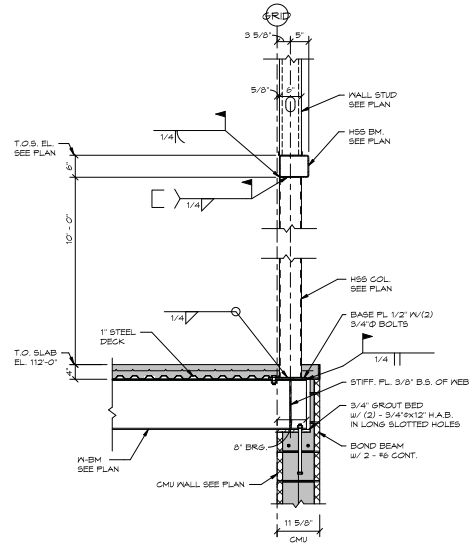

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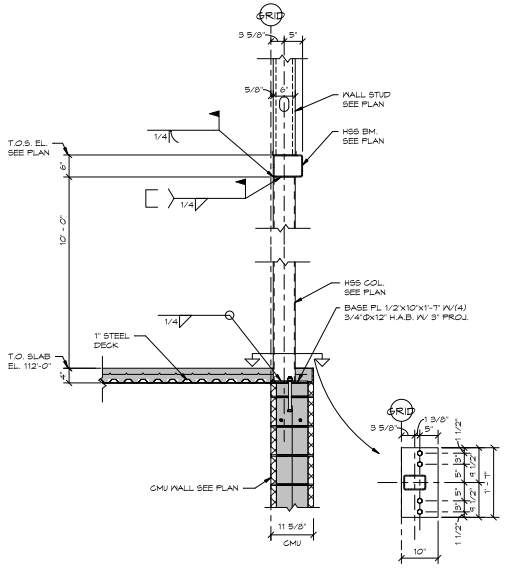

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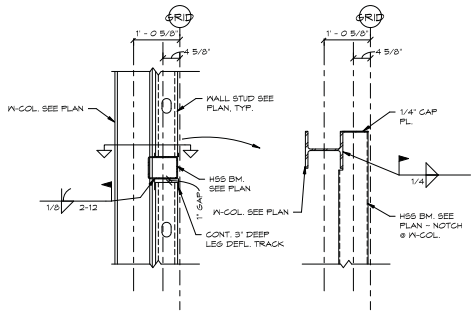

7 S512 3/4" = 1'-0"

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www.mgase.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAWAY
55103
PROFESSIONAL ENGINEER

SHEET TITLE:
FLOOR FRAMING DETAILS

SHEET ID:
S512

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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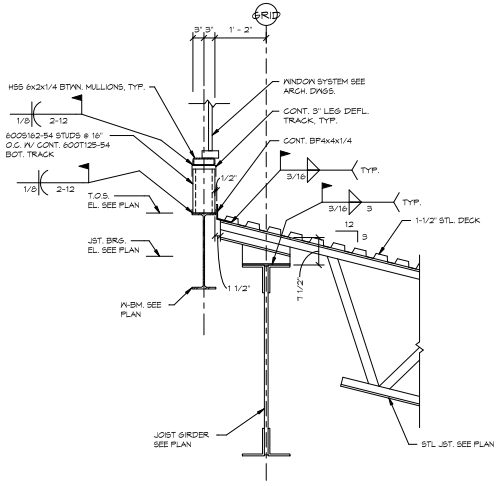

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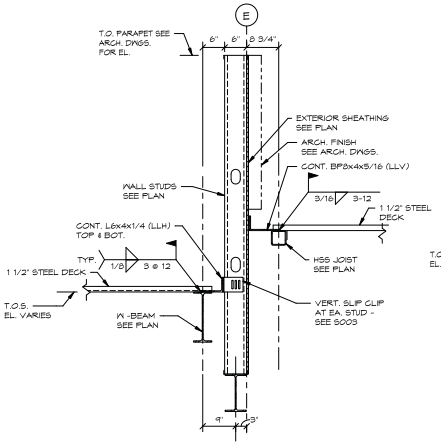

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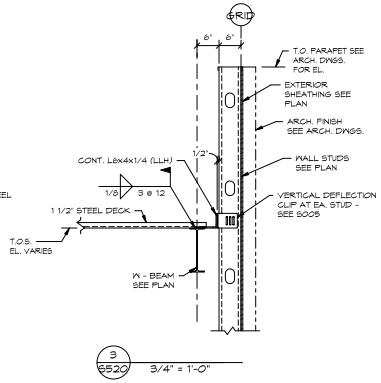

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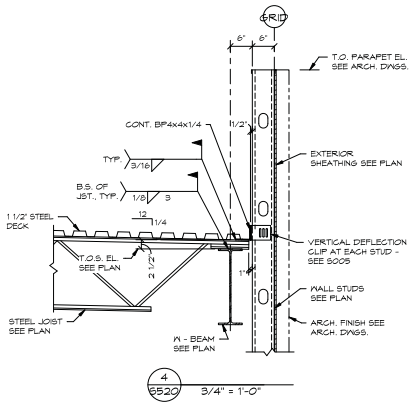

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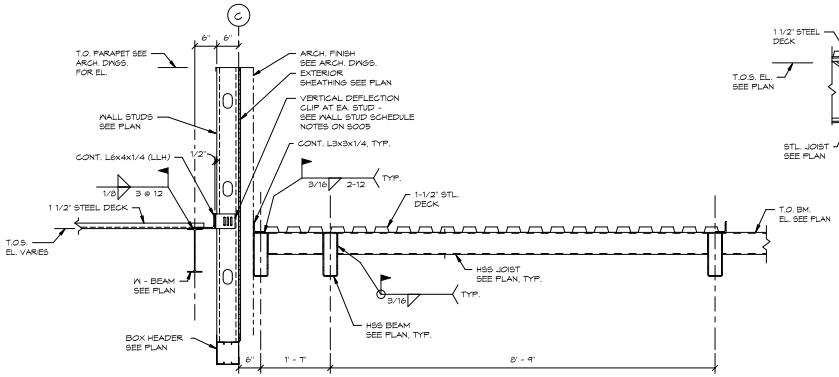

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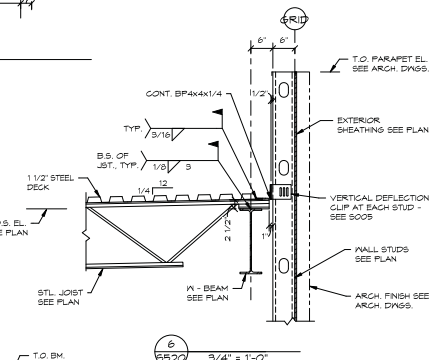

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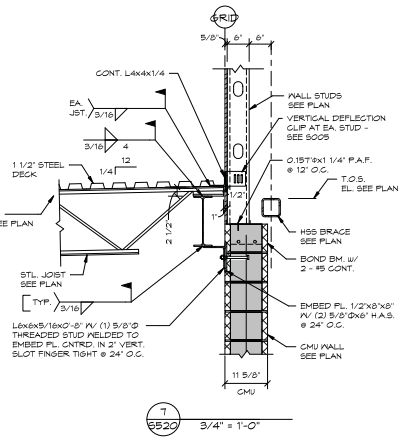

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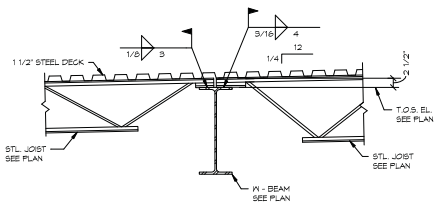

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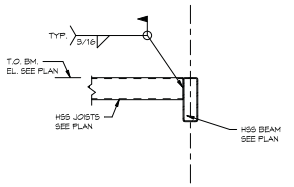

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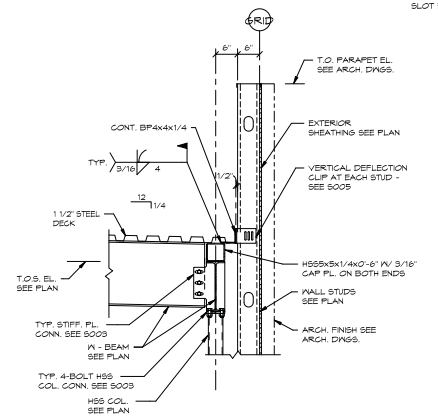

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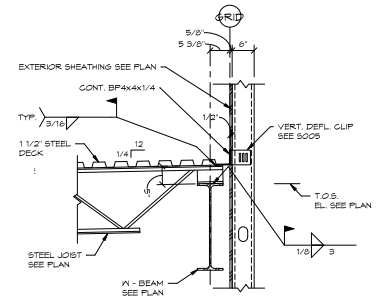

12 S520 3/4" = 1'-0"

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PROJECT TITLE:
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SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLAWAY
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET ID:
S520

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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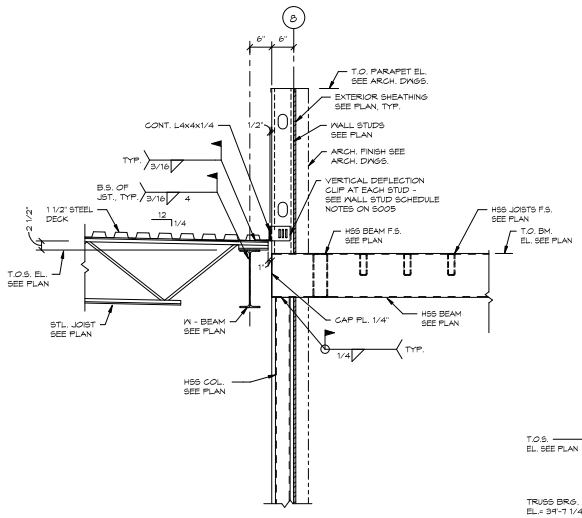

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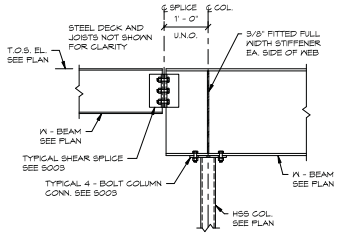

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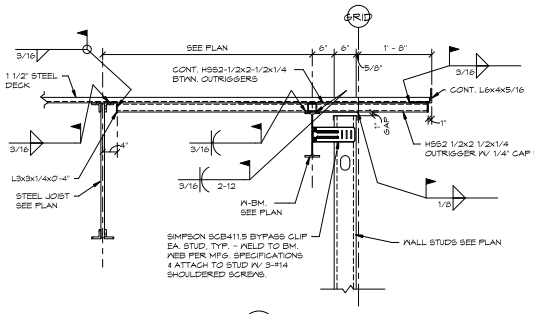

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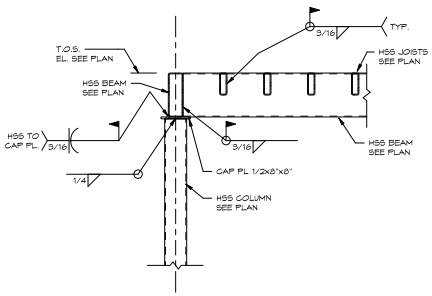

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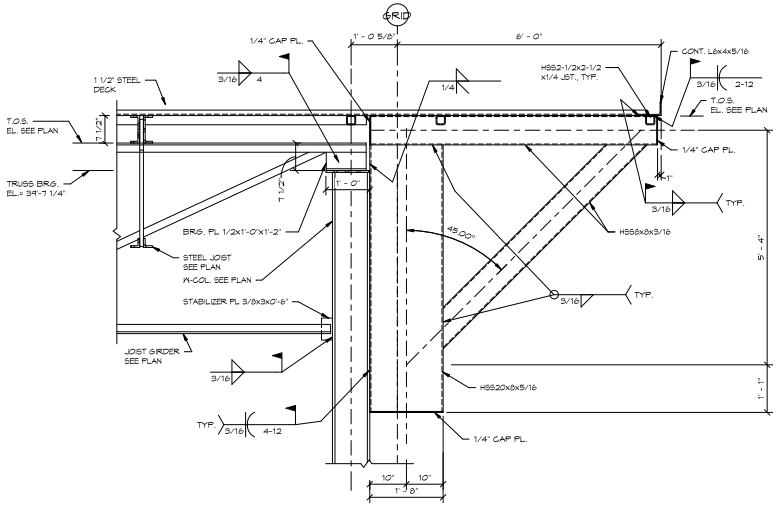

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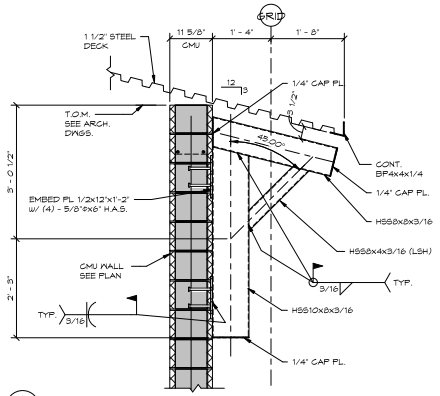

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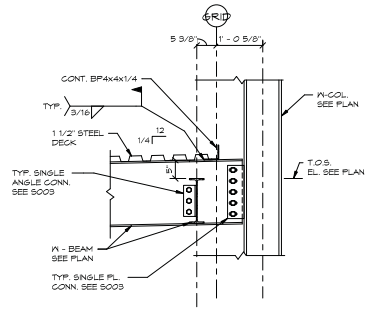

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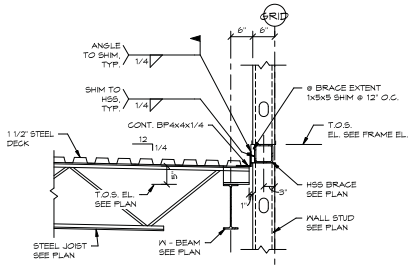

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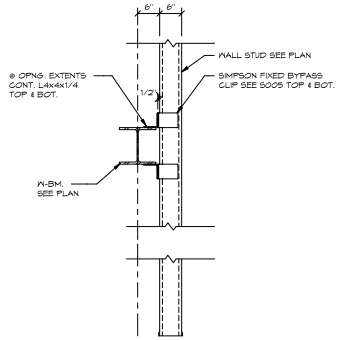

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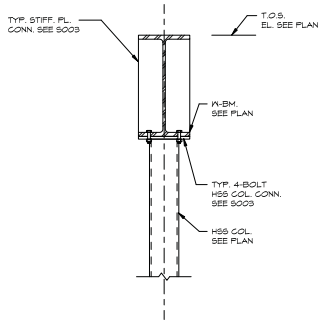

10 S521 3/4" = 1'-0"

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www.mgaeng.com

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER: 20611004000

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SEAL:
COLORADO LICENSED
JOSHUA LLOYD GALLAGHER
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET ID:
S521

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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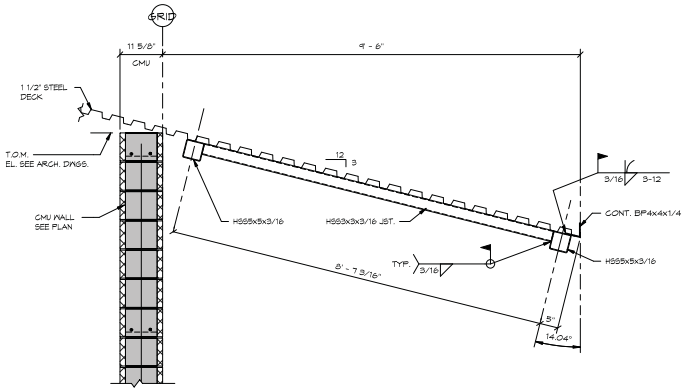

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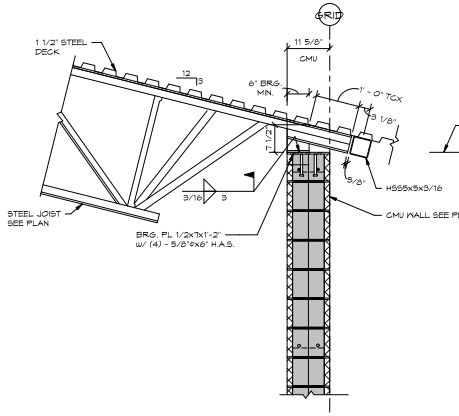

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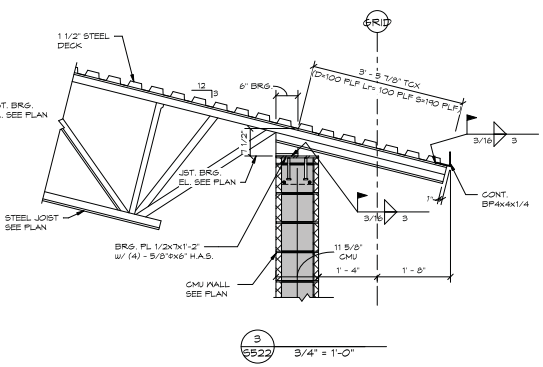

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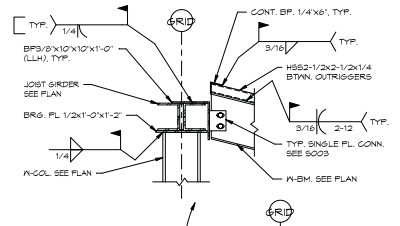

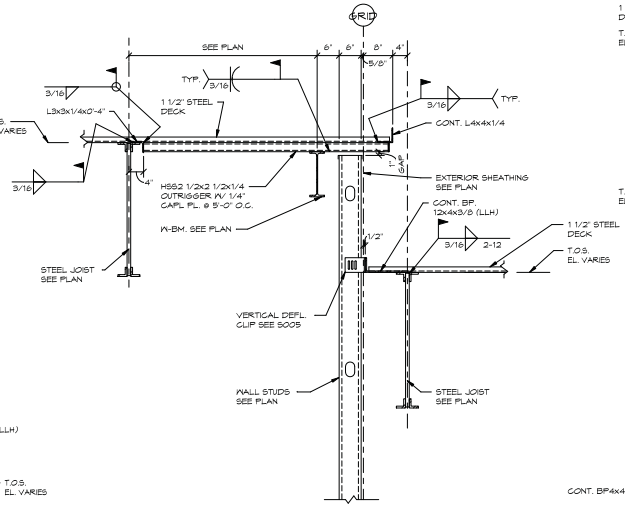

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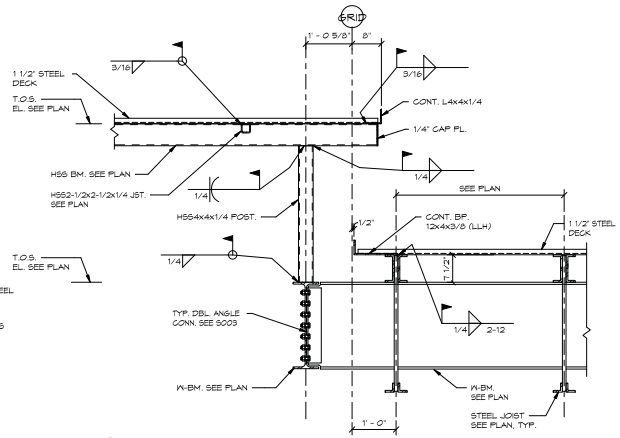

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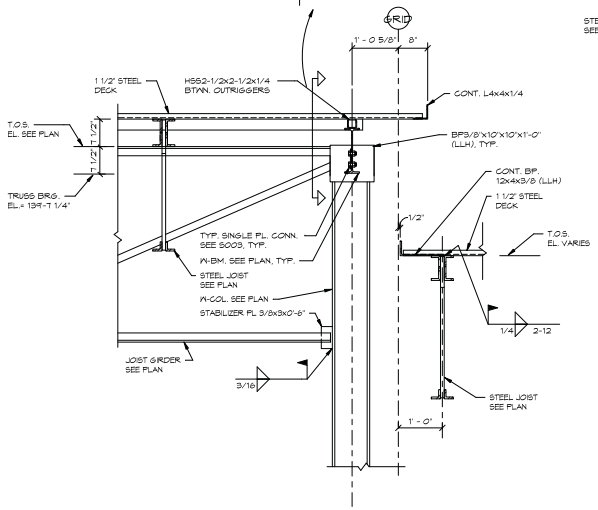

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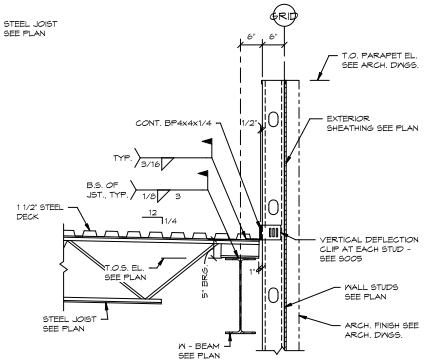

7 S522 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
JASON LLOYD GALLAHAN
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET ID:
S522

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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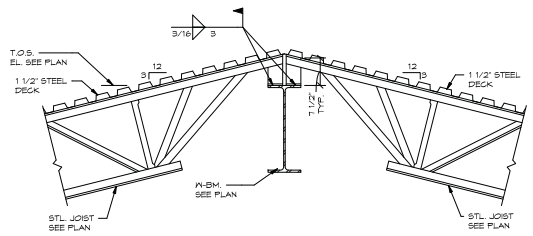

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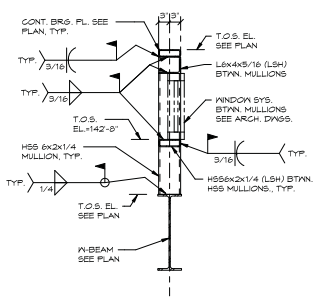

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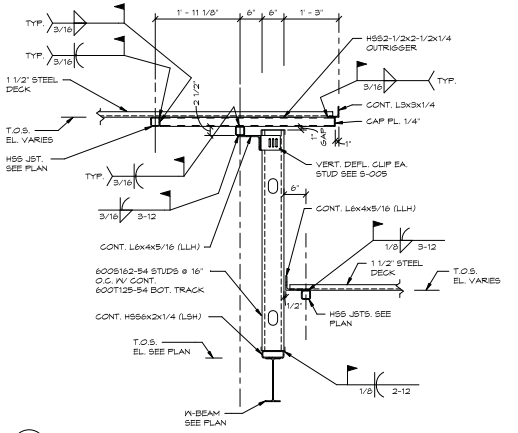

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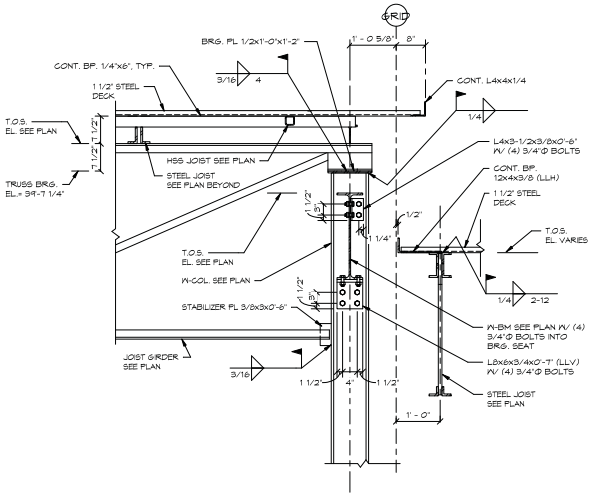

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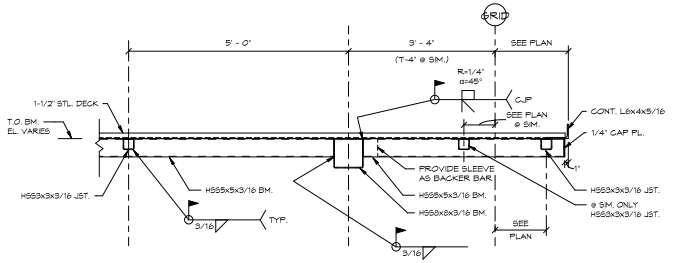

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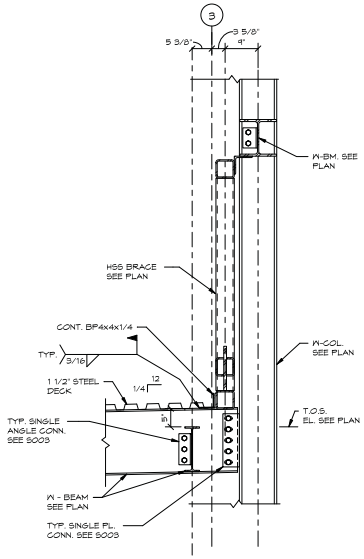

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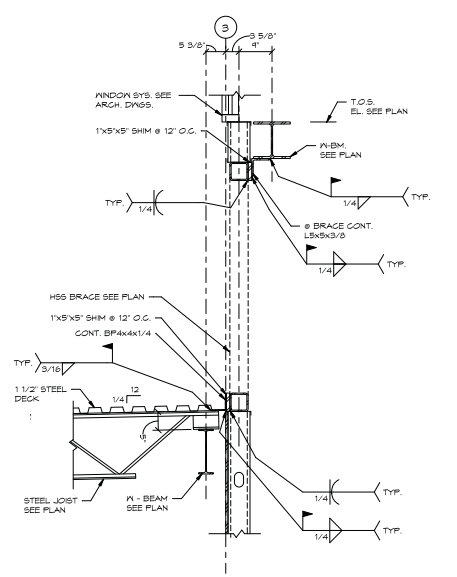

7 6523 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
55103
11/21/2025
JONATHAN LLOYD GALLAM
PROFESSIONAL ENGINEER

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET ID:
S523

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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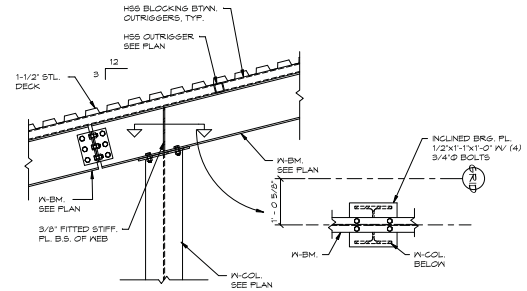

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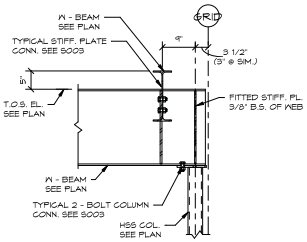

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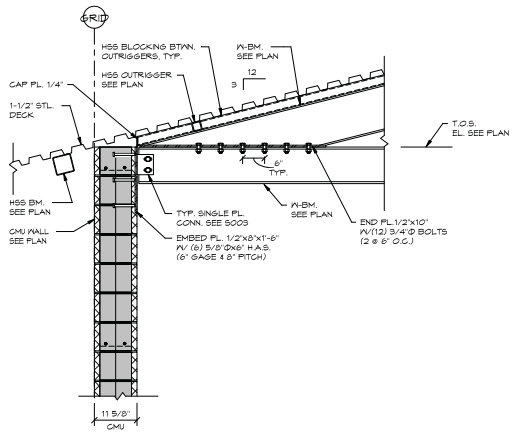

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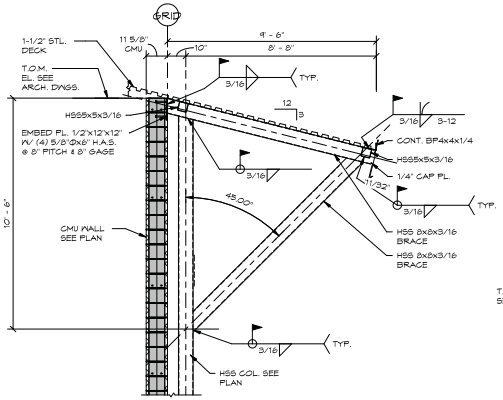

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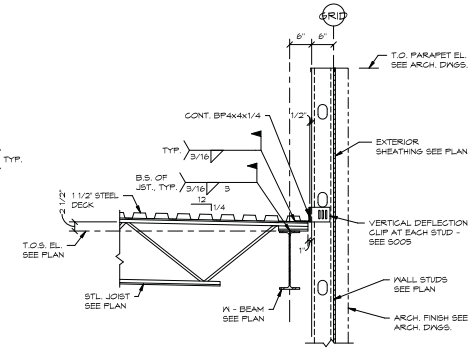

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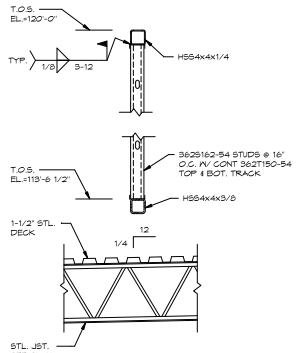

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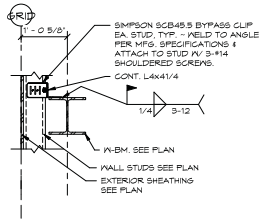

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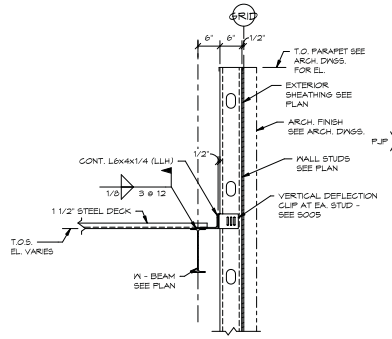

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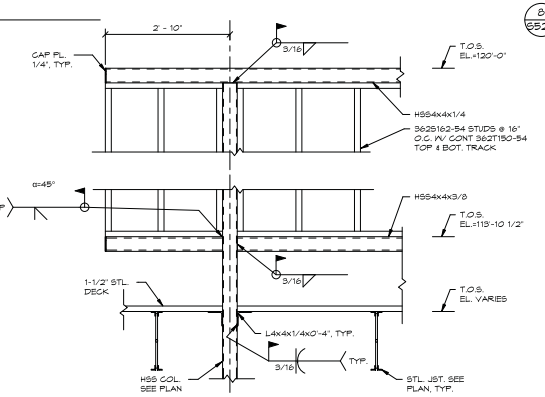

9 6524 3/4" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	JLC
DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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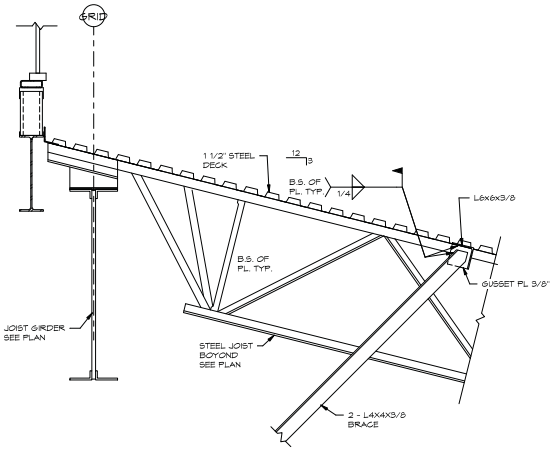
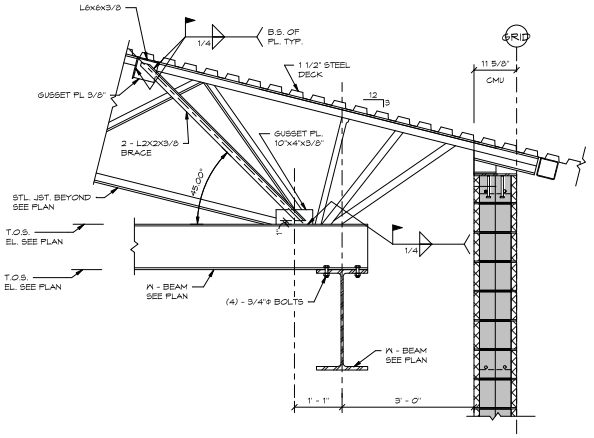
SEAL:
COLORADO LICENSED
JONATHAN LLOYD GALLEMORE
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET ID:
S524

PROJECT STATUS:
CONSTRUCTION DOCUMENTS





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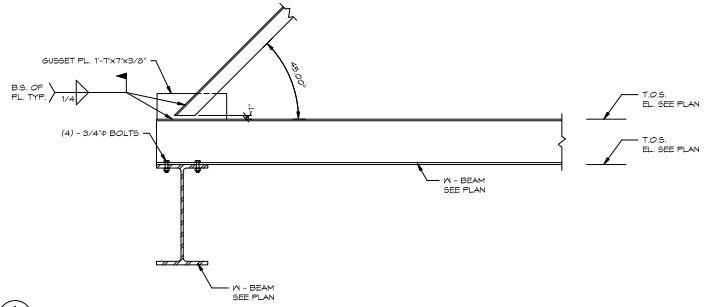

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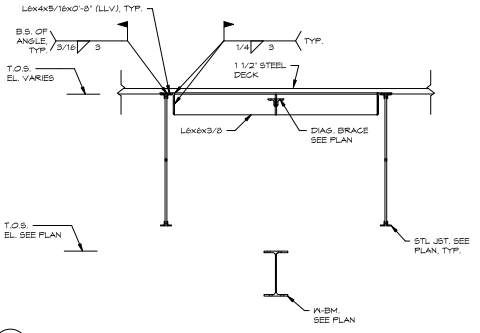

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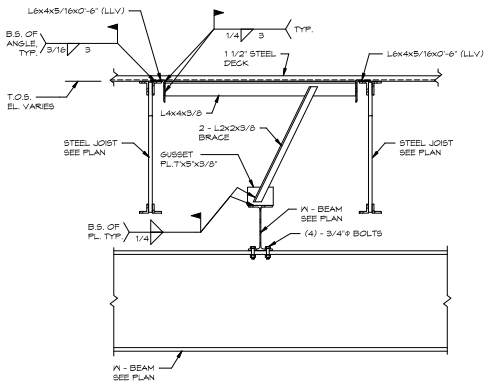

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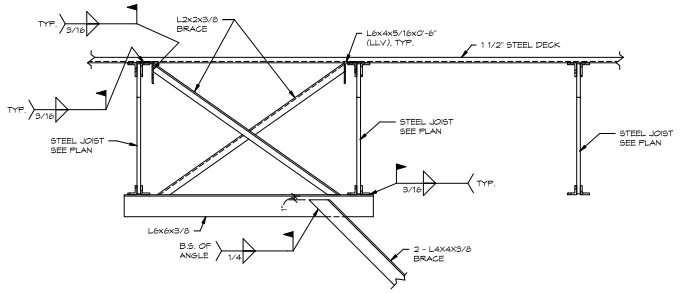

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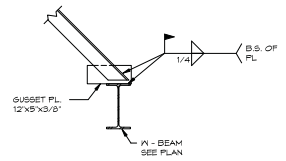

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
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DRAWN BY:	KG
DESIGNED BY:	JLC

PROJECT NUMBER:
20611004000

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SEAL:
COLORADO LICENSED
JUSTIN LLOYD GALLEGOS
55103
11/21/2025
PROFESSIONAL ENGINEER

SHEET TITLE:
ROOF FRAMING DETAILS

SHEET ID:
S525

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

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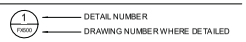
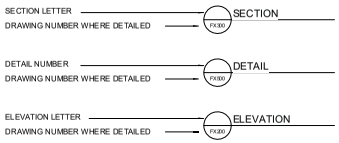
FIRE PROTECTION SYMBOL LEGEND

SECTION SYMBOL

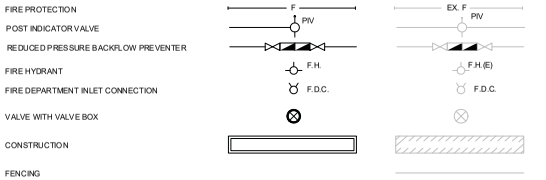
DETAIL SYMBOL



SECTION, ELEVATION, AND DETAIL TITLES



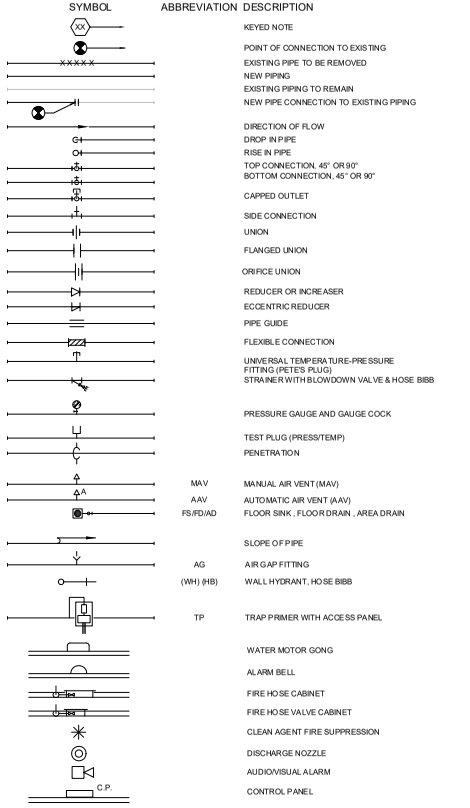
SITE UTILITY SYMBOLS



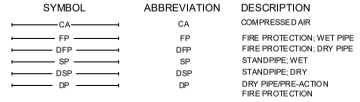
DESIGN DENSITY BOUNDARY LEGEND

DESIGN DENSITY/AREA	BOUNDARY STYLE	ABBREVIATION
LIGHT HAZARD - LH (0.10 GPM/1,500 SQ. FT.)		LH
ORDINARY HAZARD - GROUP 1 (0.15 GPM/1,500 SQ. FT.)		OH-1
ORDINARY HAZARD - GROUP 2 (0.20 GPM/1,500 SQ. FT.)		OH-2
EXTRA HAZARD - GROUP 1 (0.30 GPM/2,500 SQ. FT.)		EH-1
EXTRA HAZARD - GROUP 2 (0.40 GPM/2,500 SQ. FT.)		EH-2
DRY HAZARD NON-INTERLOCK		DRY
PRE-ACTION DOUBLE INTERLOCK		PADI
SIDEWALL, SKYLIGHTS, CLERESTORY		SWSC
SPECIAL OCCUPANCY HAZARD		SOH

SCHEMATIC SYMBOLS



PIPING SYMBOLS

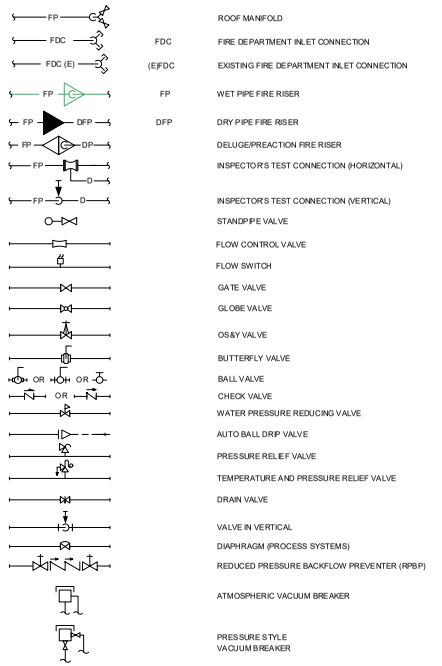


FIRE PROTECTION-INTERIOR

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
BOP	BOTTOM OF PIPE
DN	DOWN
EL.	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FT	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT

VALVE SYMBOLS



FIRE FLOW DATA

TEST DATE:	10.07.2025
TEST LOCATION:	16 INCH MAIN ON SITE
WATER PRESSURE ZONE:	F14 - 2025
PEAK STATIC PRESSURE:	97 PSI
RESIDUAL PRESSURE:	89.3 PSI
CALCULATED FLOWING GPM:	1500 GPM

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS OR DESIGN DENSITY APPLY TO THIS PROJECT

8 0 8 16
SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040 00

SEAL:

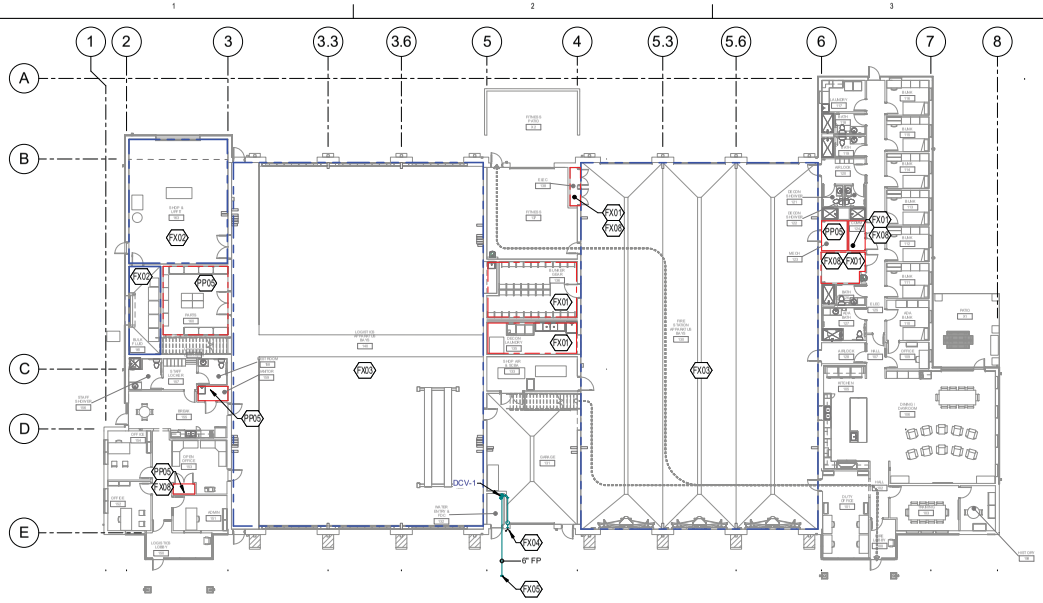
COLORADO LICENSED
NATHANIEL NORDIN
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
FIRE PROTECTION LEGEND

SHEET ID:
FX001

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 10:11:13 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

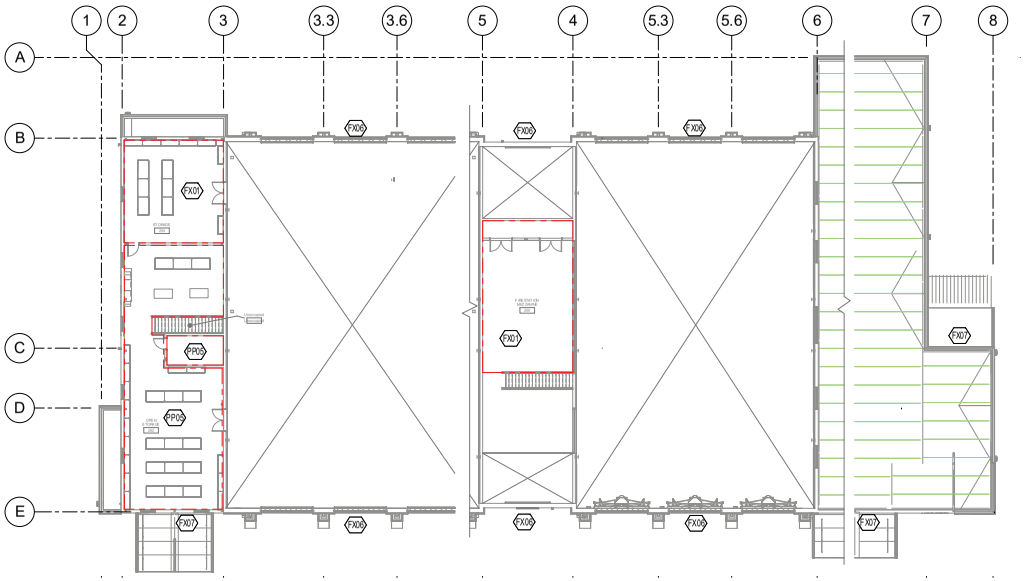


PN

A1 FIRE PROTECTION OVERALL 1ST FLOOR PLAN

SCALE: 1/16" = 1'-0"

0 8' 16' 32'



PN

1 FIRE PROTECTION SECOND FLOOR PLAN - MEZZANINE

SCALE: 1/16" = 1'-0"

0 8' 16' 32'

GENERAL SHEET NOTES

A. CONTRACTOR TO FURNISH DETAILED SHOP DRAWINGS PRIOR TO INSTALLATION AND SHALL PROVIDE FINAL AS-BUILT DRAWINGS AT COMPLETION OF PROJECT. APPROVAL OF THE SHOP DRAWINGS FROM OWNERS REPRESENTATIVE IS REQUIRED PRIOR TO INSTALLATION. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13 AND SPECIFICATION DIVISION 21.

B. HYDRAULIC DESIGN PER NFPA 13 SHALL BE PROVIDED AND DESIGNED BY THE CONTRACTOR.

C. AUTOMATIC SPRINKLERS SHALL BE U.L. LISTED OR F.M. APPROVED, ORDINARY TEMPERATURE, QUICK RESPONSE SPRINKLERS IN ACCORDANCE WITH SPECIFICATION DIVISION 21.

D. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SPECIFICATION DIVISION 21, THE CONTRACT DRAWINGS AND OTHER DRAWINGS. NOTE: IT IS UNDERSTOOD THAT THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL POSSIBLE CONSTRUCTION CONFLICTS HAVE BEEN ADDRESSED.

E. PROVIDE CURRENT FIRE FLOW TEST DATA WITH SUBMITTED SHOP DRAWINGS.

F. SPRINKLER SYSTEM SHALL BE DESIGNED FOR LIGHT HAZARD COVERAGE 0.10 GPM/1,500 SQ.FT. THROUGHOUT ENTIRE BUILDING UNLESS NOTED OTHERWISE.

G. FIRE PROTECTION SYSTEM MAIN DRAINS AND FIRE SPRINKLER TEST DRAINS SHALL DISCHARGE THROUGH BUIDLING SIDEWALL TO 18"-24" ABOVE FINISHED GRADE. COORDINATE LOCATIONS AND SUBMIT ON SHOP DRAWINGS.

H. PROVIDE REQUIRED SPRINKLER SYSTEM WITHIN ATTIC SPACES AS REQUIRED PER NFPA #13.

I. PROVIDE SPRINKLERS ABOVE CEILINGS AND WITHIN CONCEALED SPACES AS REQUIRED PER 2019 NFPA #13, CHAPTER 9.

J. REFER TO ARCHITECTURAL REFLECTED CEILING, ELECTRICAL LIGHTING PLAN, AND HVAC PLAN FOR CEILING HEIGHTS, CEILING TYPES, COORDINAETION ELEMENTS AND ADDITIONAL INFORMATION.

K. DUE TO LIMITED SPACE ABOVE CEILINGS, CONTRACTOR SHALL TAKE EXTRA CARE TO COORDINATE LAYOUT WITH ALL OTHER TRADES.

KEYNOTES

FX01 PROVIDE ORDINARY HAZARD GROUP I COVERAGE AT DESIGN DENSITY OF 0.15 GPM/1,500 SQ.FT.

FX02 PROVIDE ORDINARY HAZARD GROUP II COVERAGE AT DESIGN DENSITY OF 0.20 GPM/1,500 SQ.FT.

FX03 PROVIDE ORDINARY HAZARD GROUP II COVERAGE. WHERE CEILING HEIGHT IS BETWEEN 30FT AND 40FT, PROVIDE QUICK RESPONSE PENDENT SPRINKLERS WITH MINIMUM K-FACTOR OF K-11.2 OR EXTENDED COVERAGE QUICK RESPONSE PENDENT SPRINKLERS WITH MINIMUM K-FACTOR OF 22.4 AT DESIGN DENSITY OF 0.37 GPM/1,950 SQ.FT. WHERE CEILING HEIGHT IS HIGHER THAN 40FT, PROVIDE QUICK RESPONSE PENDENT SPRINKLERS WITH MINIMUM K-FACTOR OF 11.2 AT A DESIGN DENSITY OF 0.45 GPM/1,950 SQ.FT. AND OR EXTENDED COVERAGE QUICK RESPONSE PENDENT SPRINKLERS WITH MINIMUM K-FACTOR 25.2 AT A DESIGN DENSITY OF 0.45 GPM/1,500 SQ.FT. NO SIDEWALL SPRINKLERS ARE PERMITTED IN THIS AREA PER NFPA 13 CHAPTER 19.2.

FX04 FIRE DEPARTMENT CONNECTION WITH AUTO BALL DRIP. PROVIDE WITH LINE SIZE CHECK VALVE. FDC: 2 WAY, FLUSH MOUNTED, "AUTO SPKR" LETTERING PLATE POLISHED CHROME FINISH, MFG. POTTER ROEMER 5021-D OR EQUIVALENT.

FX05 6" FIRE PROTECTION BELOW GRADE. REFER TO CIVIL PLANS FOR PIPING CONTINUATION.

FX06 PROVIDE DRY SPRINKLER HEADS TO PROTECT OVERHANGS AS REQUIRED BY NFPA 13.

FX07 PROVIDE DRY HORIZONTAL SIDEWALL SPRINKLER HEAD BELOW ROOF AT ENTRY.

FX08 SUPPLY THIS SPACE WITH A DEDICATED BRANCH LINE. NO OTHER PIPING SHALL RUN THROUGH THIS ROOM.

PP05 SEE CIVIL FOR CONTINUATION.

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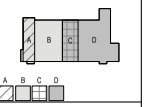
BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCAV
DESIGNED BY:	Designer

PROJECT NUMBER:
206110040 00

SEAL:

SHEET TITLE:
FIRE PROTECTION OVERALL FLOOR PLANS

SHEET ID:
FX100

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 10:11:16 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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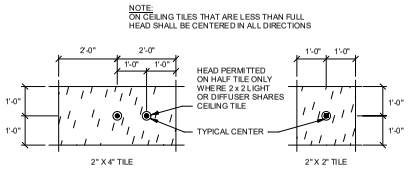
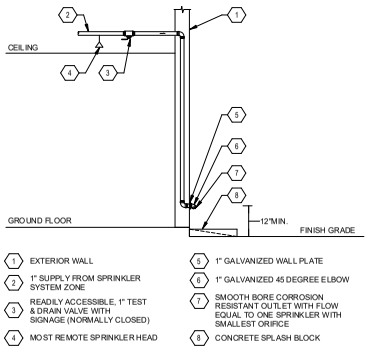
FIRE PROTECTION BACKFLOW SCHEDULE

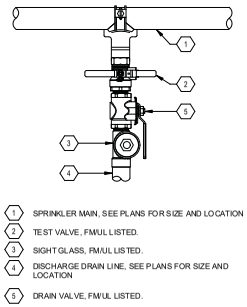
SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	PIPE SIZE (IN)	FLOW (GPM)	PSI LOSS	REMARKS:
DCV-1	AMES Fire & Waterworks	Deringer 20	WATER ENTRY &FDC 132	FIRE SPRINKLER	DOUBLE CHECK VALVE	6"	1000	7	



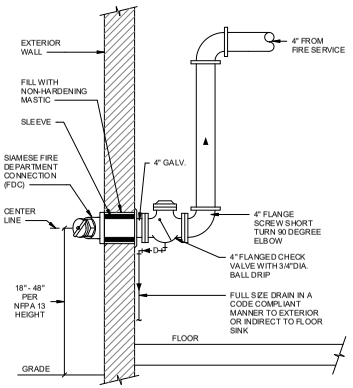
3 FIRE SPRINKLER CEILING TILE
SCALE: NOT TO SCALE



2 INSPECTORS TEST DRAIN VALVE
SCALE: NOT TO SCALE

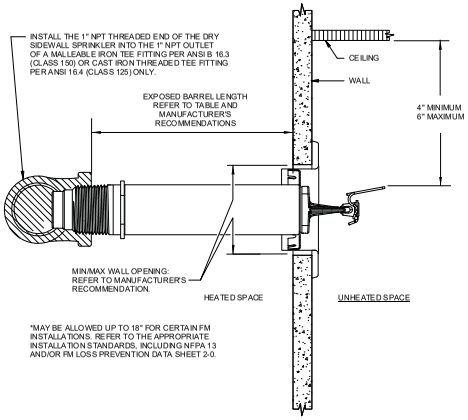


1 INSPECTORS TEST CONNECTION
SCALE: NOT TO SCALE



5 WALL MOUNT FIRE DEPARTMENT CONNECTION (FDC)
SCALE: NOT TO SCALE

AMBIENT TEMPERATURE OF PROTECTED AREA AT THE DISCHARGE END OF THE SPRINKLER	EXPOSED BARREL AMBIENT TEMPERATURE 40°F/4°C (50°F/10°C (60°F/16°C EXPOSED MINIMUM BARREL LENGTH FACE OF TEE TO TOP OF CEILING IN. (MM)	IN. (MM)	IN. (MM)
40°F (4°C)	0	0	0
30°F (-1°C)	0	0	0
20°F (-7°C)	4 (102)	0	0
10°F (-12°C)	8 (203)	1 (25.4)	0
0°F (-18°C)	12 (305)	3 (76)	0
-10°F (-23°C)	14 (356)	4 (102)	1 (25.4)
-20°F (-29°C)	14 (356)	6 (152)	3 (76)
-30°F (-34°C)	16 (406)	8 (203)	4 (102)
-40°F (-40°C)	18 (457)	8 (203)	4 (102)
-50°F (-46°C)	20 (508)	10 (254)	6 (152)
-60°F (-51°C)	20 (508)	10 (254)	6 (152)



4 DRY SPRINKLER SIDEWALL
SCALE: NOT TO SCALE

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
NATHANIEL JOHNSON
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
FIRE PROTECTION DETAILS

SHEET ID:
FX501

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 10:11:17 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 10:11:17 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

PLUMBING SYMBOL LEGEND

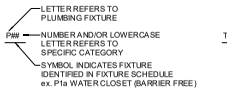
MEDICAL GAS SYMBOLS

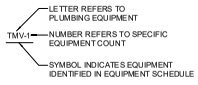
SYMBOL	ABBREVIATION	DESCRIPTION
MA	MA	MEDICAL AIR
N	N	NITROGEN
NO	NO	NITROUS OXIDE
O	O	OXYGEN
MV	MV	MEDICAL VACUUM
IA	IA	INSTRUMENT AIR
WAGD	WAGD	WASTE ANESTHESIA GAS DISPOSAL
DA	DA	DENTAL AIR
DV	DV	DENTAL VACUUM
		EXISTING PIPING
		ALARM PANEL (IN WALL)
		MEDICAL VALVE BOX
		MEDICAL GAS DROP

PROCESS GASES

SYMBOL	ABBREVIATION	DESCRIPTION
CA	CA	COMPRESSED DRY AIR
CO2	CO2	CARBON DIOXIDE
AR	AR	ARGON
AC	AC	ACETYLENE
HE	HE	HELIUM
H	H	HYDROGEN
LN	LN	LIQUID NITROGEN
LOX	LOX	LIQUID OXYGEN
O	O	OXYGEN

PLUMBING FIXTURE & EQUIPMENT SYMBOL





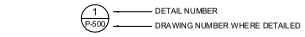
P1	WATER CLOSETS
P2	URINALS
P3	LAVATORIES
P4	SINKS
P5	SERVICE SINKS
P6	WATER COOLERS/DRINKING FOUNTAINS
P7	SHOWERS/BATHTUBS
P8	WATER HAMMERS/SHOCK ABSORBERS
P9	HOSE BIBBS
P10	HYDRANTS
P11	SUPPLY BOXES
P12	WASHER BOXES
P13	EYEWASH/EYEWASH SHOWERS
P14	CLINIC SINKS
P15	TRAP PRIMER
FD1	FLOOR DRAINS
FS1	FLOOR SINKS
RD1	ROOF DRAINS
ORD1	OVERFLOW DRAINS
DSN1	DOWNSPOUT NOZZLES
AD1	AREA DRAINS
DD1	DECK DRAINS

TMV-1	THERMOSTATIC MIXING VALVE
DWH-1	DOMESTIC WATER HEATER
EWH-1	ELECTRIC WATER HEATER
IWH-1	INSTANTANEOUS WATER HEATER
RCP-1	RECIRCULATION PUMP
EXP-1	EXPANSION TANK
RPZ-1	REDUCED PRESSURE ZONE BACKFLOW
BFP-1	DOUBLE CHECK BACKFLOW
GGI-1	GRAVITY GREASE INTERCEPTOR
HGI-1	HYDROMECHANICAL GREASE INTERCEPTOR
OI-1	OIL INTERCEPTOR
OS-1	OILS AND INTERCEPTOR
ANT-1	ACID NEUTRALIZER
LI-1	LINT INTERCEPTOR
GM-1	GAS METER
REG-1	REGULATOR
WPRV-1	WATER PRESSURE REDUCING VALVE
ETP-1	ELECTRONIC TRAP PRIMER

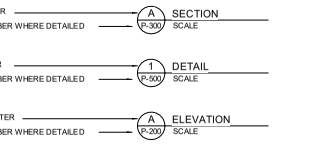
NOTE: NOT ALL FIXTURE & EQUIPMENT SYMBOLS APPLY TO THIS PROJECT

SECTION SYMBOL

DETAIL SYMBOL



SECTION, ELEVATION, AND DETAIL TITLES



PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
AV	AV	ACID VENT
AW	AW	ACID WASTE
CA	CA	COMPRESSED AIR
CND	CND	CONDENSATE DRAIN
DCW	DCW	DOMESTIC COLD WATER
DHW	DHW	DOMESTIC HOT WATER
DHWR	DHWR	DOMESTIC HOT WATER RETURN
DHW 140°F	DHW 140°F	140° DOMESTIC HOT WATER
DHWR 140°F	DHWR 140°F	140° DOMESTIC HOT WATER RETURN
ROS	ROS	REVERSE OSMOSIS SUPPLY
ROR	ROR	REVERSE OSMOSIS RETURN
MU	MU	MAKE-UP WATER
NPW	NPW	NON-POTABLE WATER
V	V	VENT
DIS	DIS	DEIONIZED WATER SUPPLY
DIR	DIR	DEIONIZED WATER RETURN
SAN	SAN	SANITARY SEWER
GW	GW	GREASE WASTE
GV	GV	GREASE VENT
RD	RD	STORM ROOF DRAIN
ORD	ORD	OVERFLOW ROOF DRAIN
LPG	LPG	LIQUEFIED PETROLEUM GAS
G @14"w.c.	G @14"w.c.	NATURAL GAS-LOW PRESSURE
MPG	MPG	NATURAL GAS-MEDIUM PRESSURE
NGH	NGH	NATURAL GAS-HIGH PRESSURE (5+ PSIG)
IRR	IRR	IRRIGATION
SCW	SCW	SOFT COLD WATER
SHW	SHW	SOFT HOT WATER
SHWR	SHWR	SOFT HOT WATER RETURN
TWR (___)	TWR	TEMPERED WATER RETURN (TEMP °F)
TW (___)	TW	TEMPERED WATER (TEMP °F)
PD	PD	PUMPED DISCHARGE LINE
ICW	ICW	INDUSTRIAL COLD WATER
IHW	IHW	INDUSTRIAL HOT WATER
IHWR	IHWR	INDUSTRIAL HOT WATER RETURN
INW	INW	INDUSTRIAL WASTE
IA	IA	INSTRUMENT COMPRESSED AIR
IW	IW	INDIRECT WASTE
LA	LA	LAB COMPRESSED AIR

SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
SANITARY SEWER	S	EX. S
COLD WATER SUPPLY	W	EX. W
FIRE PROTECTION	F	EX. F
NATURAL GAS	G	EX. G
STORM DRAIN	SD	EX. SD
IRRIGATION	IRR	EX. IRR
VALVE WITH VALVE BOX		
FIRE HYDRANT	F.H.	F.H.(E)
FIRE DEPARTMENT INLET CONNECTION	F.D.C.	F.D.C.
CONSTRUCTION		
THRUST BLOCK		
CLEANOUT	SAS C.O.	SAS C.O.(E)
POWER POLE	PP	PP
FENCING		
LIGHT POLE	LP	LP
WATER METER	WM	WM
NATURAL GAS METER	GM	GM
GATE VALVE		
VALVE IN RISER		
POST INDICATOR VALVE	PIV	PIV
REDUCED PRESSURE BACKFLOW PREVENTER		
SANITARY MANHOLE	SAS M.H.	SAS M.H.(E)
SLOPE AND LINEAL FOOTAGE	25'S' OF 6" @ 0.15%SLOPE	

VALVE SYMBOLS

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
S	SOLENOID VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
OR OR	BALL VALVE
OR	CHECK VALVE
OR	PLUG VALVE
	BALANCING VALVE/CIRCUIT SETTER DEVICE
	WATER PRESSURE REDUCING VALVE
	REGULATING/SUSTAINING VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	FUEL GAS PRESSURE REGULATOR
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	DRAIN VALVE
	VALVE IN VERTICAL
	FLOW SWITCH
	DIAPHRAGM (PROCESS SYSTEMS)
	REDUCED PRESSURE BACKFLOW PREVENTER (RPZ)
	ATMOSPHERIC VACUUM BREAKER
	PRESSURE STYLE VACUUM BREAKER

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

SCHEMATIC SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
XX		KEYED NOTE
		POINT OF CONNECTION TO EXISTING
		EXTENT OF DEMOLITION
		EXISTING PIPE TO BE REMOVED
		NEW PIPING
		EXISTING PIPING TO REMAIN
		NEW PIPE CONNECTION TO EXISTING PIPING
		SLOPE OF PIPE
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		SIDE CONNECTION
		UNION
		FLANGED UNION
		ORIFICE UNION
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		PIPE GUIDE
		FLEXIBLE CONNECTION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		THERMOMETER
		PRESSURE GAUGE AND GAUGE COCK
		AQUASTAT
OR		WATER HAMMER ARRESTOR
		TEST PLUG (PRESS/TEMP)
		PENETRATION
	MAV	MANUAL AIR VENT (MAV)
A	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD	FLOOR SINK , FLOOR DRAIN , AREA DRAIN
	FCO/COTG	FLOOR CLEANOUT/CLEANOUT TO GRADE
	DCOTG	TWO WAY OR DOUBLE CLEANOUT TO GRADE
	RD/ORD/DD	ROOF DRAIN/OVERFLOW DRAIN/DECK DRAIN
	TP	TRAP PRIMER WITH ACCESS PANEL
	VTR	VENT THROUGH ROOF
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIB
	WCO	WALL CLEANOUT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
AVTR	ACID RESISTANT VENT THROUGH ROOF
B.C.	BALANCING COCK
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CWB	CLOTHES WASHER BOX
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	CIRCULATION PUMP
CWV	COMBINATION WASTE AND VENT
DCO	DOUBLE CLEANOUT
DCOTG	DOUBLE CLEANOUT TO GRADE
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
EL	ELEVATION
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
EEW	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER EYE WASH
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FT	FEET
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FV	FLUSH VALVE
GD	GUTTER DRAIN
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GVTR	GREASE VENT THROUGH ROOF
HB	HOSE BIB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
kW	KILOWATT
MBh	1,000 BTUH
MV	MIXING VALVE
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
Ph	POWERS OF HARDNESS
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT
WCO	WALL CLEANOUT
WC	WATER CLOSET
w.c.	INCHES IN WATER COLUMN, PRESSURE

8 0 8 16

SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7083
www.rsandh.com

BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040 00

SEAL:

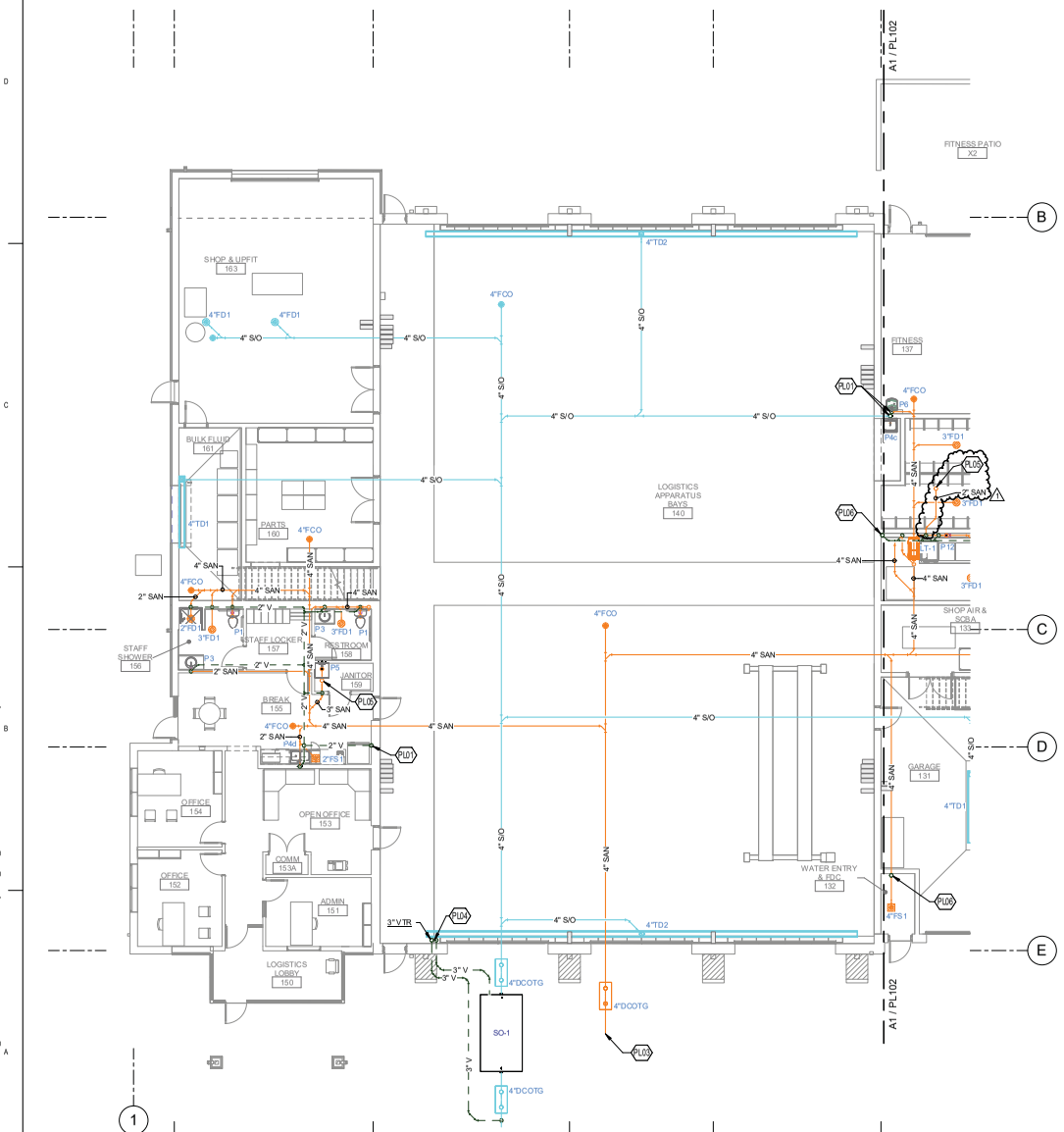
COLORADO LICENSED
NATHANIEL ROSS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING LEGEND

SHEET ID:
P-001

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/26/2026 11:35:06 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



A1 WASTE & VENT 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. THE DRAWINGS IN NATURE ARE INTENDED TO DEPICT THE GENERAL LOCATIONS OF THE PLUMBING SYSTEM COMPONENTS.

B. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE ORIGINAL BASE BUILDING CONTARCT DOCUMENTS, AND SHALL CONFORM IN ALL RESPECTS WITH 2021 IPC, COLORADO STATE AMENDMENTS TO THE 2021 IPC, AND ALL OTHER APPLICALBE LOCAL CODES, CURRENT EDITION ENFORCED.

C. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL COMPLETE WITH ALL ACCESSORIES, TEST AND ADJUST AS NECESSARY. THE WORD "PIPING" MEANS PIPE, FITTINGS, CONTROLS, AND HANGERS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM AS REQUIRED BY CODE.

D. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.

E. ALL PLUMBING PIPING SHALL BE CLOSELY COORDINATED WITH OTHER TRADES PRIOR TO PIPING INSTALLATIONS.

F. PROVIDE DIELECTRIC FITTINGS BETWEEN PIPING OF DISSIMILAR METALS.

G. FOR TYPICAL ELECTRICAL EQUIPMENT CLEARANCE REQUIREMENTS, SEE DETAIL.

H. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

I. CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

J. FURNISH MINIMUM 2" VENT PIPING FOR PLUMBING FIXTURES UNLESS OTHERWISE NOTED.

K. INSTALL VENT PIPING PER IPC REQUIREMENTS. ROUTE TO 3" VTR LOCATIONS SHOWN ON ROOF PLANS.

L. SANITARY PIPING 3" AND LARGER SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED; PIPING SMALLER THAN 3" SLOPED AT 1/4" PER FOOT MINIMUM.

KEYNOTES

PL01 2" VENT UP.
PL03 SEE CIVIL FOR CONTINUATION.
PL04 TIE INTO SINGLE VENT PIPE 24" AFF.
PL05 2" SANITARY WASTE LINE TO FLOOR SINK ON EQUIPMENT PLATFORM ABOVE.
PL06 2" VENT TO 3" VTR.

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
NATHANIEL ROGERS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
WASTE & VENT SECTOR PLANS - LOGISTICS

SHEET ID:
PL101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 11:35:08 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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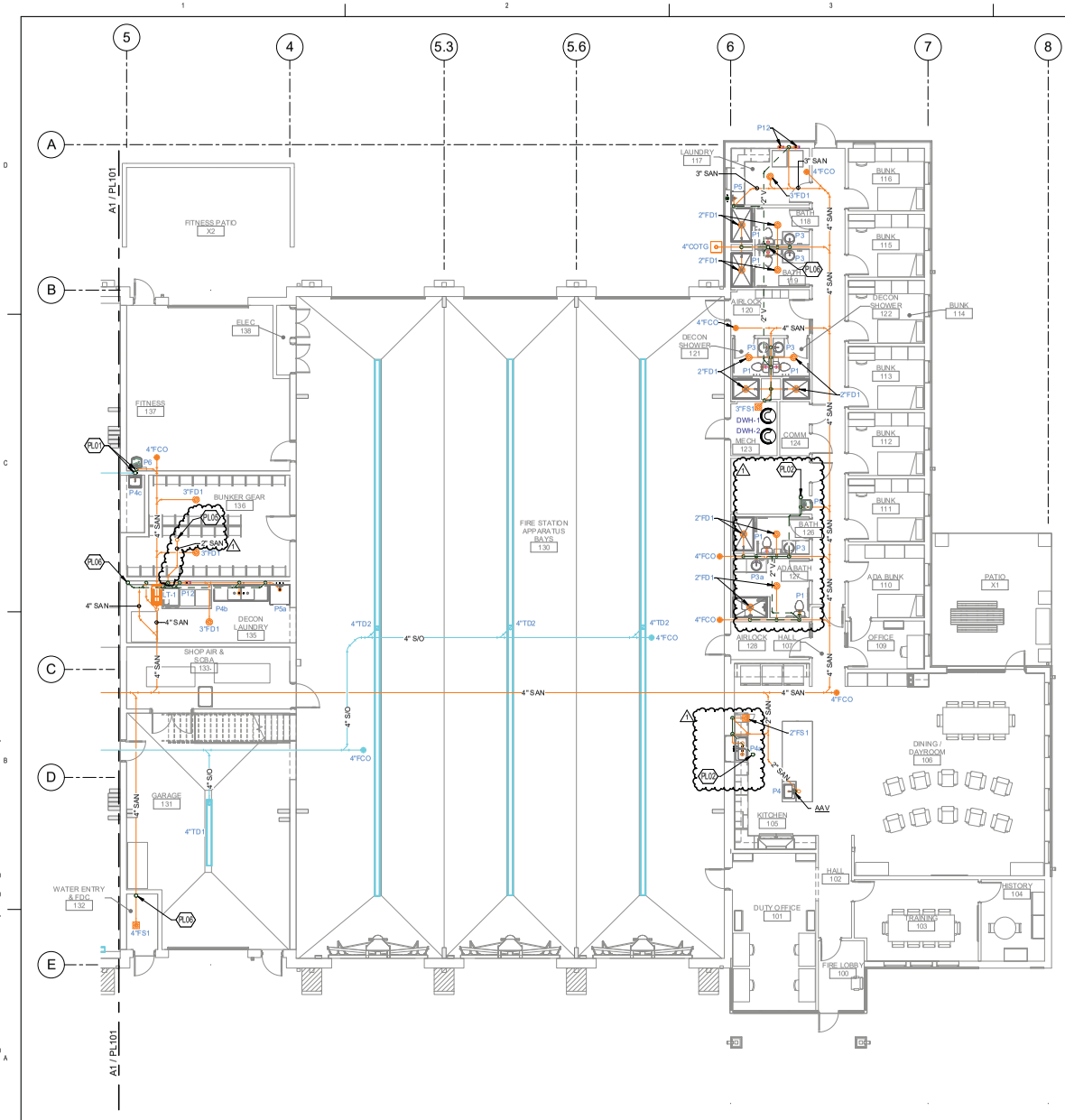

PN

A1 WASTE & VENT 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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J. FURNISH MINIMUM 2" VENT PIPING FOR PLUMBING FIXTURES UNLESS OTHERWISE NOTED.

K. INSTALL VENT PIPING PER IPC REQUIREMENTS. ROUTE TO 3" VTR LOCATIONS SHOWN ON ROOF PLANS.

L. SANITARY PIPING 3" AND LARGER SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED; PIPING SMALLER THAN 3" SLOPED AT 1/4" PER FOOT MINIMUM.

KEYNOTES

PL01 2" VENT UP.
PL02 3" VTR. VENT MUST BE A MINIMUM OF 10 FEET FROM INTAKE AIR ON MECHANICAL EQUIPMENT.
PL05 2" SANITARY WASTE LINE TO FLOOR SINK ON EQUIPMENT PLATFORM ABOVE.
PL06 2" VENT TO 3" VTR.

8 0 8 16

SCALE: 1/8" = 1'-0"

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www.rsandh.com

BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NGW
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
NATHANIEL NORRIS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
WASTE & VENT SECTOR PLANS - FIRE STATION

SHEET ID:
PL102

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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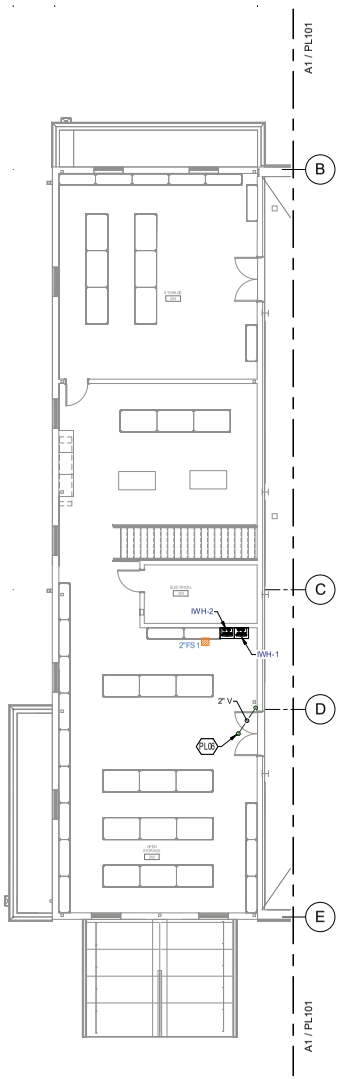
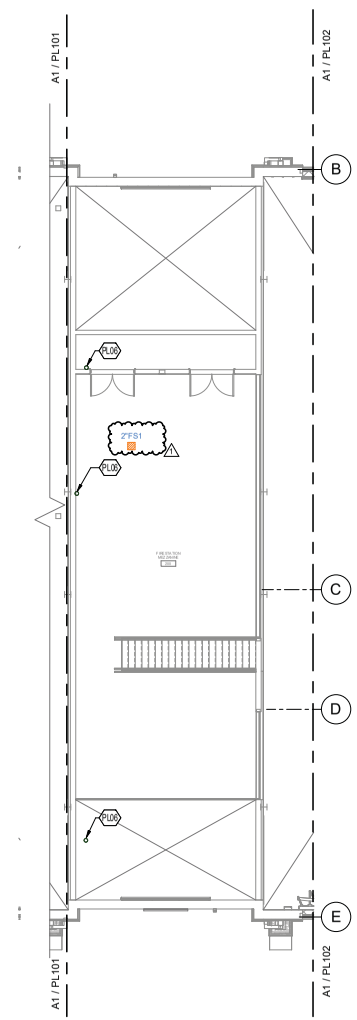
1/26/2026 11:35:11 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



WASTE & VENT 2ND FLOOR PLAN - LOGISTICS MEZZANINE

SCALE: 1/8" = 1'-0"



WASTE & VENT 2ND FLOOR PLAN - FIRE STATION MEZZANINE

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. THE DRAWINGS IN NATURE ARE INTENDED TO DEPICT THE GENERAL LOCATIONS OF THE PLUMBING SYSTEM COMPONENTS.

B. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE ORIGINAL BASE BUILDING CONTARCT DOCUMENTS, AND SHALL CONFORM IN ALL RESPECTS WITH 2021 IPC, COLORADO STATE AMENDMENTS TO THE 2021 IPC, AND ALL OTHER APPLICALBE LOCAL CODES, CURRENT EDITION ENFORCED.

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F. PROVIDE DIELECTRIC FITTINGS BETWEEN PIPING OF DISSIMILAR METALS.

G. FOR TYPICAL ELECTRICAL EQUIPMENT CLEARANCE REQUIREMENTS, SEE DETAIL.

H. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

I. CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

J. FURNISH MINIMUM 2" VENT PIPING FOR PLUMBING FIXTURES UNLESS OTHERWISE NOTED.

K. INSTALL VENT PIPING PER IPC REQUIREMENTS. ROUTE TO 3" VTR LOCATIONS SHOWN ON ROOF PLANS.

L. SANITARY PIPING 3" AND LARGER SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED; PIPING SMALLER THAN 3" SLOPED AT 1/4" PER FOOT MINIMUM.

KEYNOTES

PL06 2" VENT TO 3" VTR.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCAV
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:

COLORADO LICENSED
NATHANIEL ROWE
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
WASTE & VENT SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET ID:
PL103

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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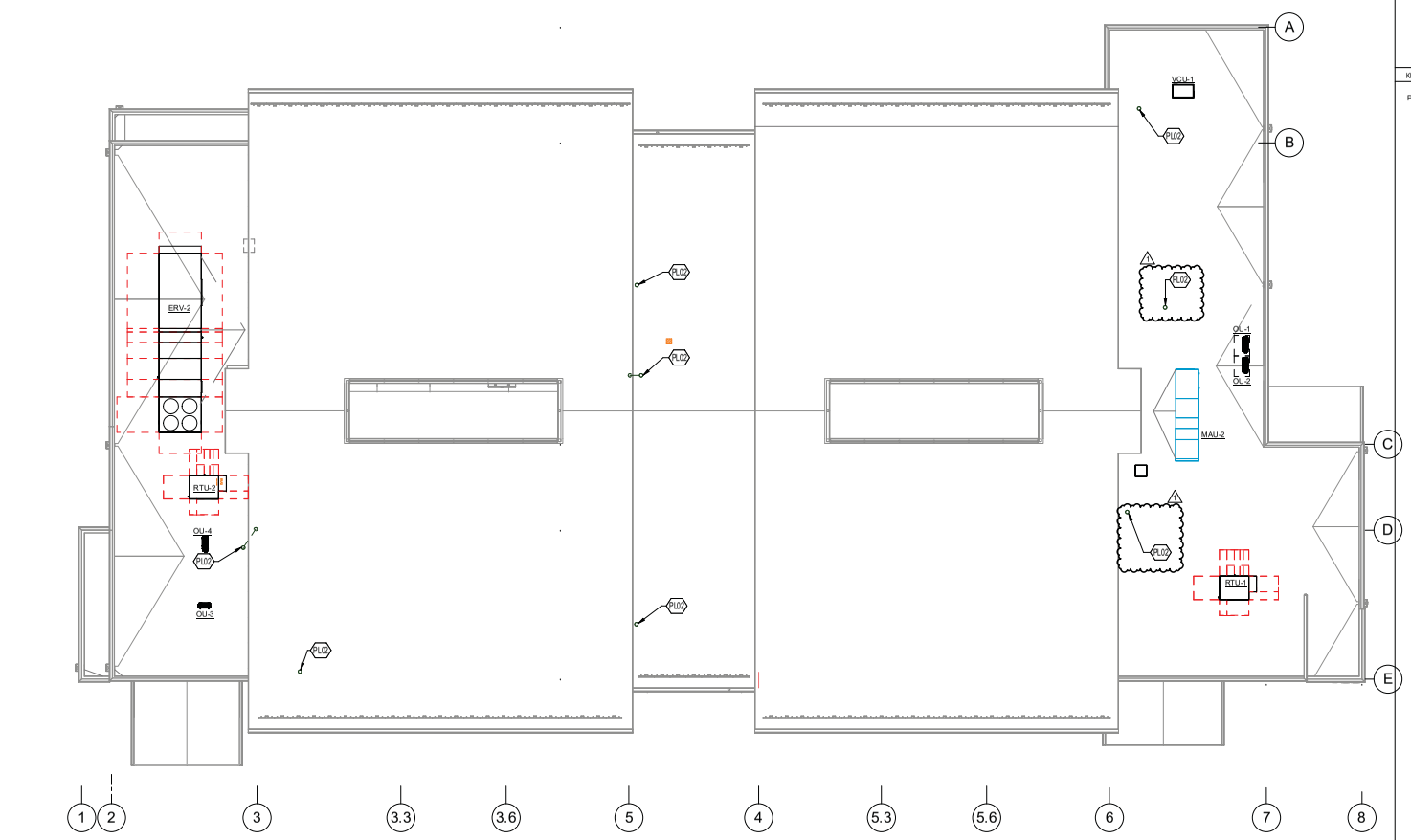

A1 PLUMBING ROOF PLAN

SCALE: 3/32" = 1'-0"

0 8' 16' 24'

GENERAL SHEET NOTES

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L. SANITARY PIPING 3" AND LARGER SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED; PIPING SMALLER THAN 3" SLOPED AT 1/4" PER FOOT MINIMUM.

KEYNOTES

PL02 3" VTR. VENT MUST BE A MINIMUM OF 10 FEET FROM INTAKE AIR ON MECHANICAL EQUIPMENT.

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Colorado Springs, CO 80903
719-473-7083
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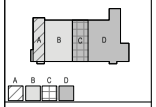
BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:



REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

SEAL:

COLORADO LICENSED
NATHANIEL NORRIS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING OVERALL ROOF PLAN

SHEET ID:
PL121

PROJECT STATUS:
Construction Documents

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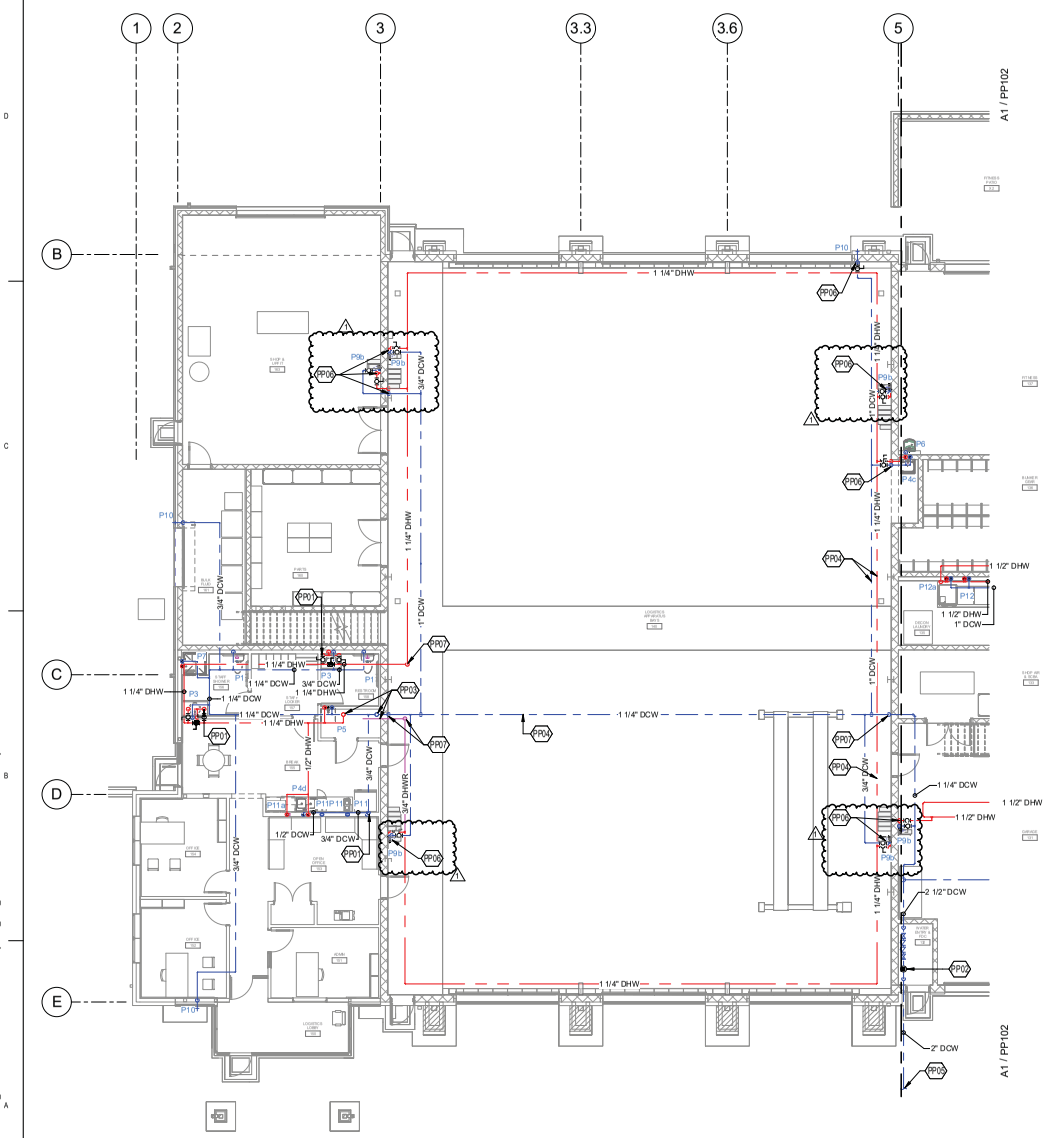
1/26/2026 11:35:14 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



PRESSURE PIPING 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. THE DRAWINGS IN NATURE ARE INTENDED TO DEPICT THE GENERAL LOCATIONS OF THE PLUMBING SYSTEM COMPONENTS.

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H. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

I. CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

KEYNOTES

PP01 DOMESTIC WATER RISERS. LOCATED IN WALL FROM CEILING TO CIRCULATE WITHIN 2'-0" OF FIXTURE PER IECC REQUIREMENTS.
PP02 NEW 1.5" WATER METER AND 2" BACKFLOW PREVENTER.
PP03 WATER PIPING UP TO EQUIPMENT ON UPPER LEVEL.
PP04 ROUTE PIPING IN APPARATUS BAY AS HIGH AS POSSIBLE.
PP05 SEE CIVIL FOR CONTINUATION.
PP06 SURFACE MOUNT PIPE ON WALL DOWN TO FIXTURE BELOW.
PP07 SURFACE MOUNT PIPING ON WALL

8 0 8 16
SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7083
www.rsandh.com

BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

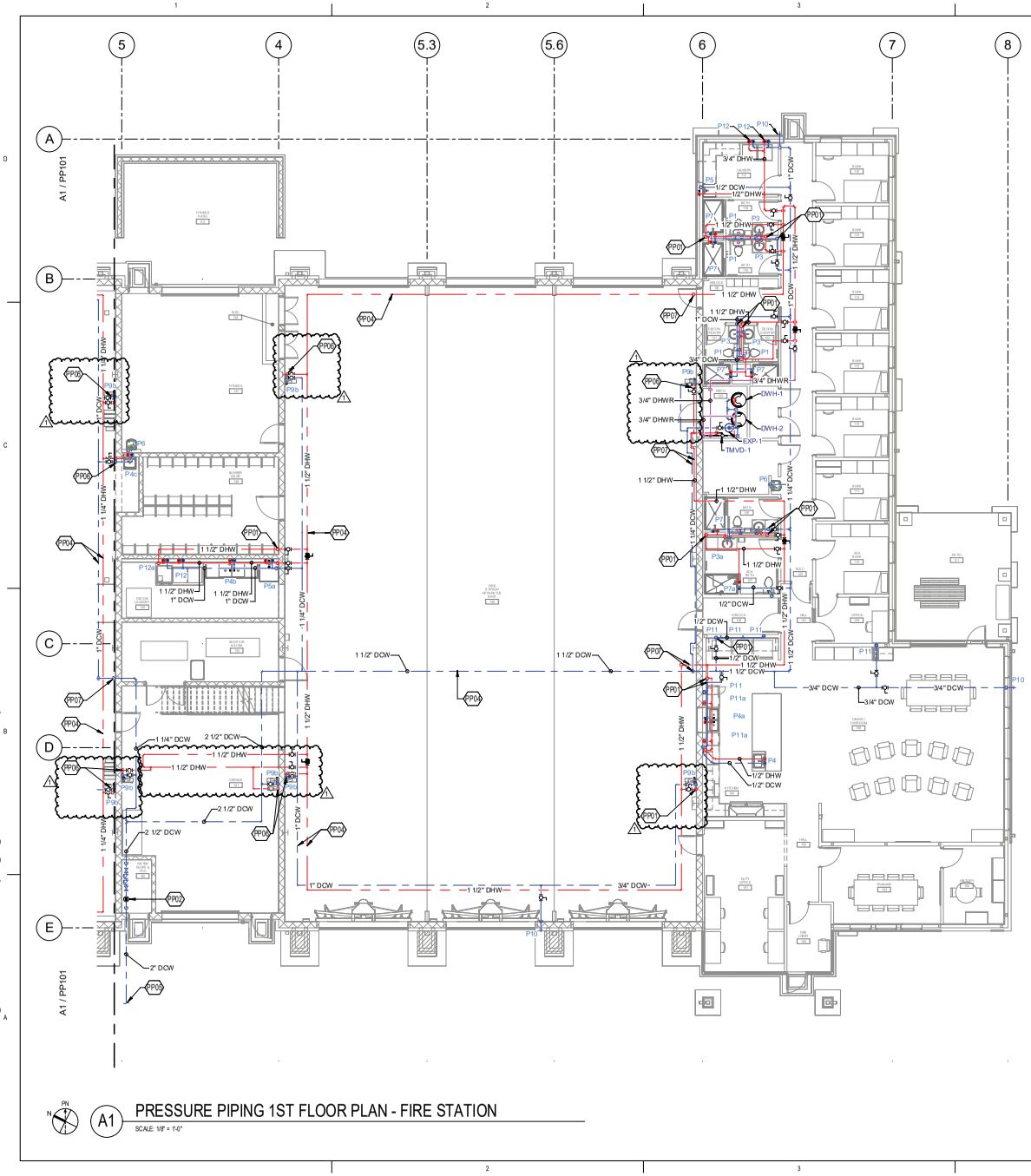
SEAL:
COLORADO LICENSED
NATHANIEL NORRIS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PRESSURE PIPING SECTOR PLANS - LOGISTICS

SHEET ID:
PP101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 11:35:16 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 11:35:16 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



PN

A1 PRESSURE PIPING 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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KEYNOTES

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PP02 NEW 1.5" WATER METER AND 2" BACKFLOW PREVENTER.
PP04 ROUTE PIPING IN APPARATUS BAY AS HIGH AS POSSIBLE.
PP05 SEE CIVIL FOR CONTINUATION.
PP06 SURFACE MOUNT PIPE ON WALL DOWN TO FIXTURE BELOW.
PP07 SURFACE MOUNT PIPING ON WALL

8 0 8 16

SCALE: 1/8" = 1'-0"

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www.rsandh.com

BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:

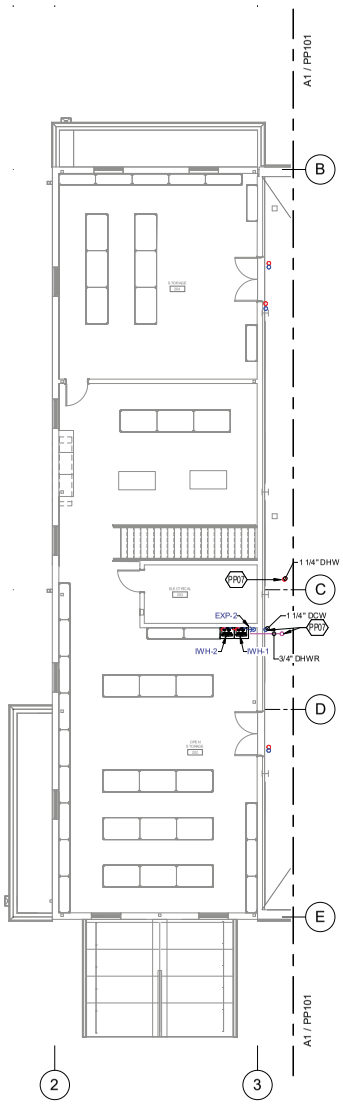
COLORADO LICENSED
NATHANIEL NORRIS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PRESSURE PIPING SECTOR PLANS - FIRE STATION

SHEET ID:
PP102

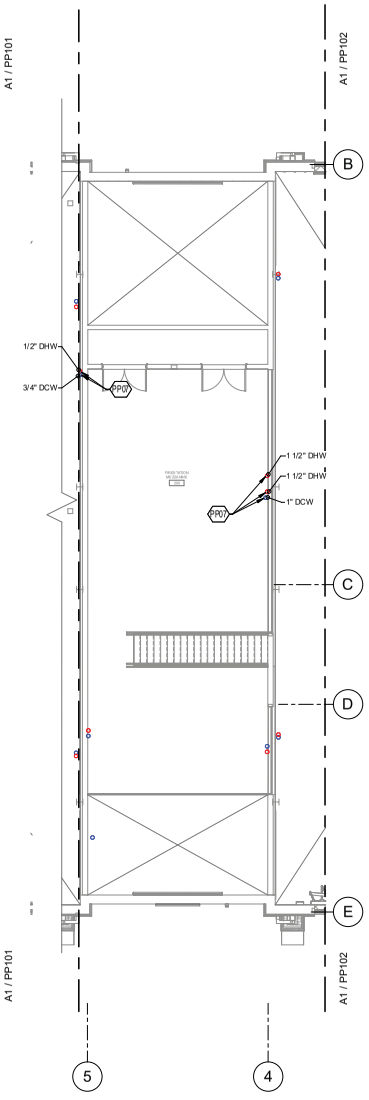
PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 11:35:19 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 11:35:19 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



PRESSURE PIPING 2ND FLOOR PLAN - LOGISTICS MEZZANINE

SCALE: 1/8" = 1'-0"



PRESSURE PIPING 2ND FLOOR PLAN - FIRE STATION MEZZANINE

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. THE DRAWINGS IN NATURE ARE INTENDED TO DEPICT THE GENERAL LOCATIONS OF THE PLUMBING SYSTEM COMPONENTS.

B. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE ORIGINAL BASE BUILDING CONTARCT DOCUMENTS, AND SHALL CONFORM IN ALL RESPECTS WITH 2021 IPC, COLORADO STATE AMENDMENTS TO THE 2021 IPC, AND ALL OTHER APPLICALBE LOCAL CODES, CURRENT EDITION ENFORCED.

C. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL COMPLETE WITH ALL ACCESSORIES, TEST AND ADJUST AS NECESSARY. THE WORD "PIPING" MEANS PIPE, FITTINGS, CONTROLS, AND HANGERS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM AS REQUIRED BY CODE.

D. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.

E. ALL PLUMBING PIPING SHALL BE CLOSELY COORDINATED WITH OTHER TRADES PRIOR TO PIPING INSTALLATIONS.

F. PROVIDE DIELECTRIC FITTINGS BETWEEN PIPING OF DISSIMILAR METALS.

G. FOR TYPICAL ELECTRICAL EQUIPMENT CLEARANCE REQUIREMENTS, SEE DETAIL.

H. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

I. CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

KEYNOTES

PP07 SURFACE MOUNT PIPING ON WALL

8 0 8 16

SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7063
www.rsandh.com

BRIDGERS & PAXTON

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PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

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COLORADO LICENSED
NATHANIEL NORDYKE
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PRESSURE PIPING SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET ID:
PP103

PROJECT STATUS:
Construction Documents

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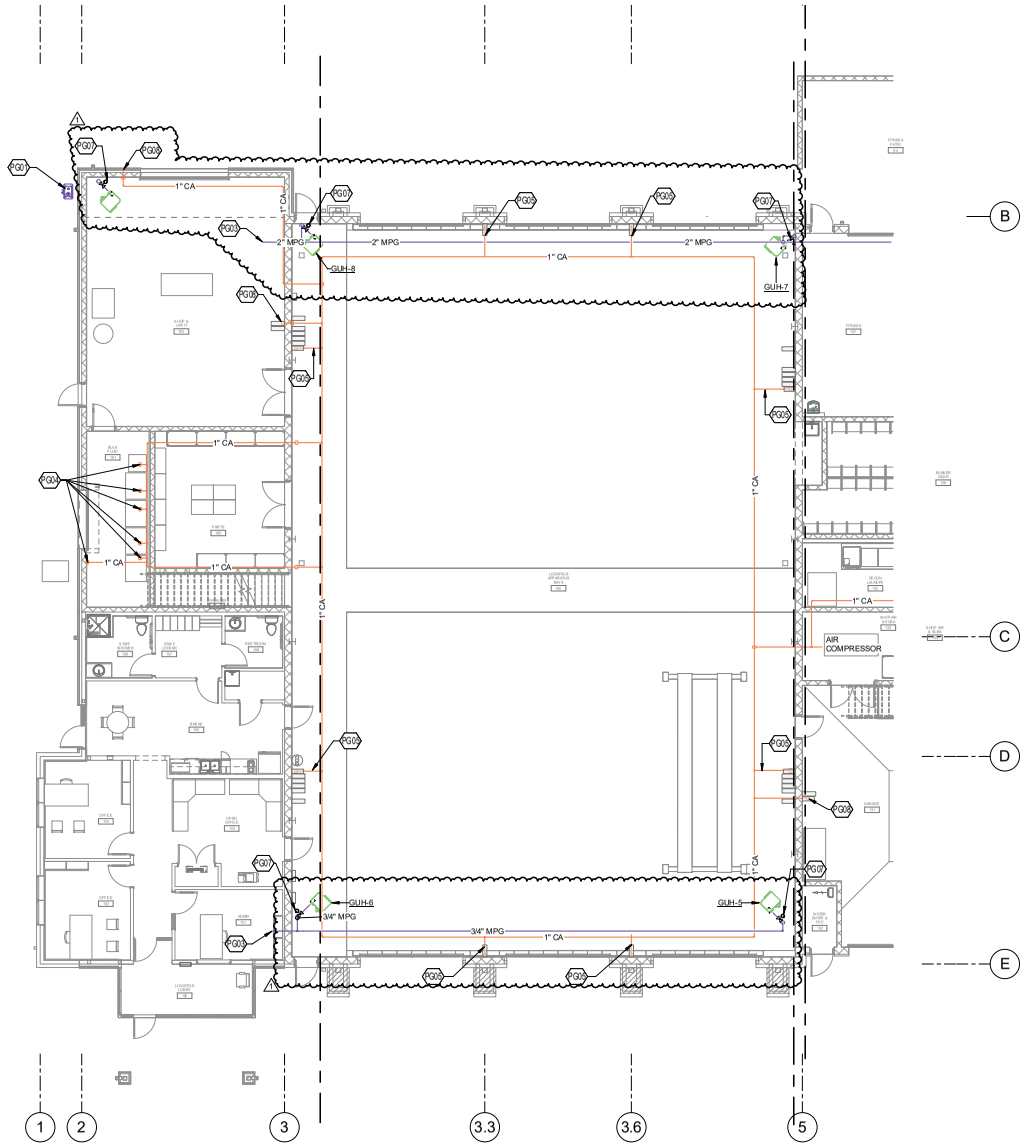

A1 PIPED GASES 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. THE DRAWINGS IN NATURE ARE INTENDED TO DEPICT THE GENERAL LOCATIONS OF THE PLUMBING SYSTEM COMPONENTS.

B. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE ORIGINAL BASE BUILDING CONTARCT DOCUMENTS, AND SHALL CONFORM IN ALL RESPECTS WITH 2021 IPC, COLORADO STATE AMENDMENTS TO THE 2021 IPC, AND ALL OTHER APPLICALBE LOCAL CODES, CURRENT EDITION ENFORCED.

C. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL COMPLETE WITH ALL ACCESSORIES, TEST AND ADJUST AS NECESSARY. THE WORD "PIPING" MEANS PIPE, FITTINGS, CONTROLS, AND HANGERS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM AS REQUIRED BY CODE.

D. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.

E. ALL PLUMBING PIPING SHALL BE CLOSELY COORDINATED WITH OTHER TRADES PRIOR TO PIPING INSTALLATIONS.

F. PROVIDE DIELECTRIC FITTINGS BETWEEN PIPING OF DISSIMILAR METALS.

G. FOR TYPICAL ELECTRICAL EQUIPMENT CLEARANCE REQUIREMENTS, SEE DETAIL.

H. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

I. CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

KEYNOTES

PG01 2 PSI GAS METER. TOTAL GAS LOAD~5,406 MBH, TOTAL DEVELOPED LENGTH~620 FT.

PG03 MPG PIPE CONTINUED. SEE A 1/PG121 PLUMBING ROOF PLAN FOR CONTINUATION.

PG04 AIR DROPS FOR FLUID PUMPS. 1" STEEL FOR WASTE OIL PUMP; 3/4" STEEL FOR MOTOR OIL, COOLANT, ATF, AND HYDRAULIC FLUID PUMPS.

PG05 AIR DROP TO AIR HOSE AND REEL SYSTEM. COORDINATE WITH FIRE DEPARTMENT FOR PREFERRED EQUIPMENT AND CONNECTIONS.

PG07 PROVIDE GAS REGULATOR AT EQUIPMENT TO PROVIDE 11" W.C. GAS PRESSURE TO EQUIPMENT.

PG08 PROVIDE EXTERIOR COMPRESSED AIR CONNECTION. COORDINATE WITH FIRE DEPARTMENT FOR PREFERRED CONNECTION TYPE.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

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DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:

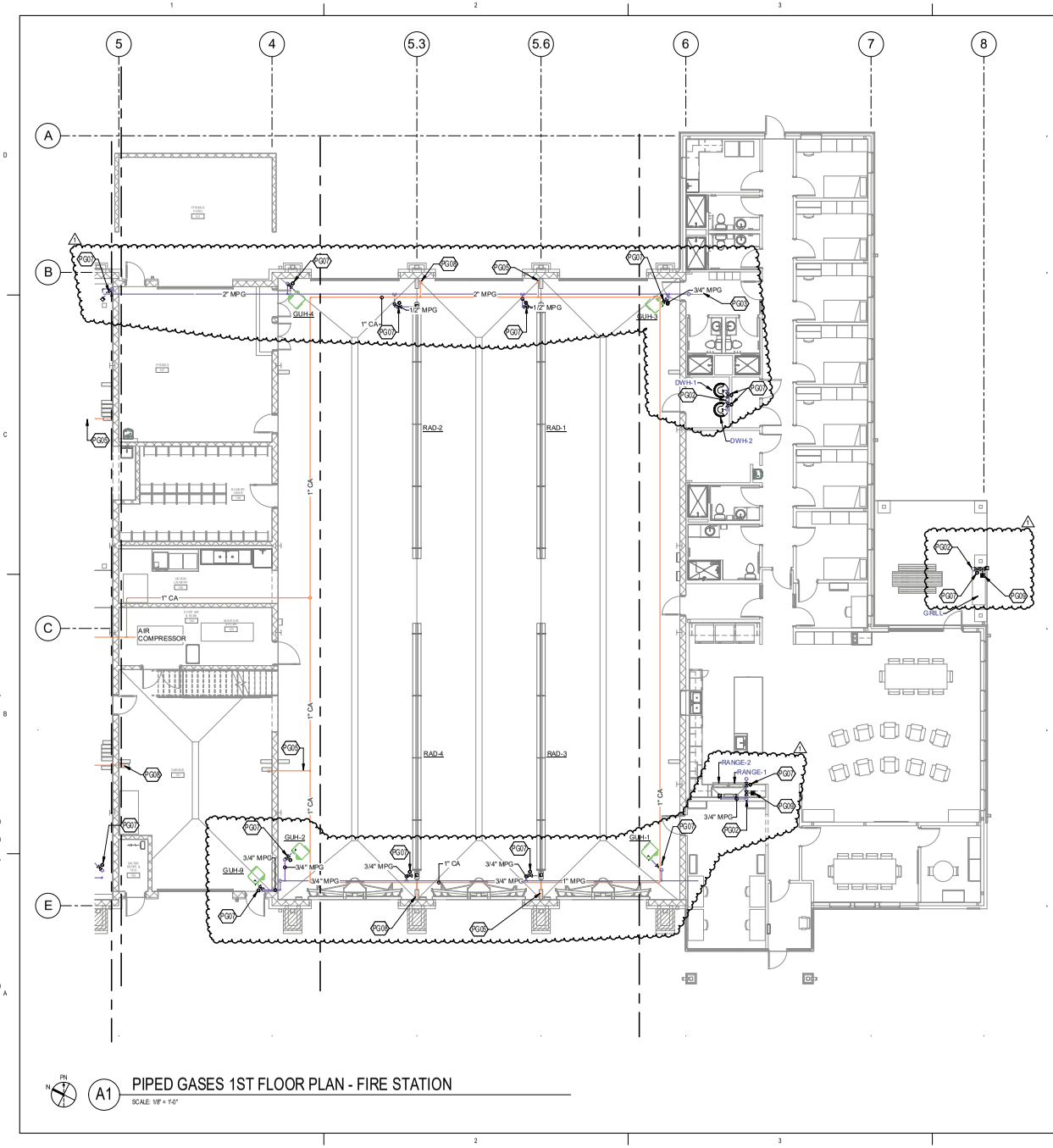
COLORADO LICENSED
NATHANIEL NORRIS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PIPED GASES SECTOR PLANS - LOGISTICS

SHEET ID:
PG101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/26/2026 11:35:22 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 11:35:22 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



PN

A1 PIPED GASES 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. THE DRAWINGS IN NATURE ARE INTENDED TO DEPICT THE GENERAL LOCATIONS OF THE PLUMBING SYSTEM COMPONENTS.

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F. PROVIDE DIELECTRIC FITTINGS BETWEEN PIPING OF DISSIMILAR METALS.

G. FOR TYPICAL ELECTRICAL EQUIPMENT CLEARANCE REQUIREMENTS, SEE DETAIL.

H. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

I. CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

KEYNOTES

PG02 3/4" MPG DOWN FROM ROOF.

PG03 MPG PIPE CONTINUED. SEE A1PG121 PLUMBING ROOF PLAN FOR CONTINUATION.

PG05 AIR DROP TO AIR HOSE AND REEL SYSTEM. COORDINATE WITH FIRE DEPARTMENT FOR PREFERRED EQUIPMENT AND CONNECTIONS.

PG07 PROVIDE GAS REGULATOR AT EQUIPMENT TO PROVIDE 11" W.C. GAS PRESSURE TO EQUIPMENT.

PG08 PROVIDE EXTERIOR COMPRESSED AIR CONNECTION. COORDINATE WITH FIRE DEPARTMENT FOR PREFERRED CONNECTION TYPE.

PG09 ISIMET SOLENOID VALVE, S-302, TO CONNECT TO EMERGENCY GAS SHUT OFF SYSTEM FOR RANGES AND GRILL. COORDINATE WITH DIVISION 26 FOR CONNECTION.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

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PROJECT ADDRESS:
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KEY PLAN:

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PROJECT NUMBER: 20611004000

SEAL:

COLORADO LICENSED
NATHANIEL ROSS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PIPED GASES SECTOR PLANS - FIRE STATION

SHEET ID:
PG102

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
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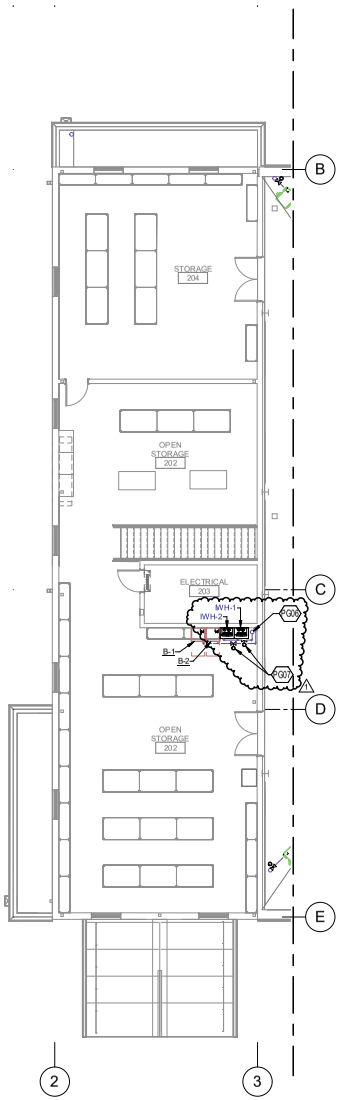
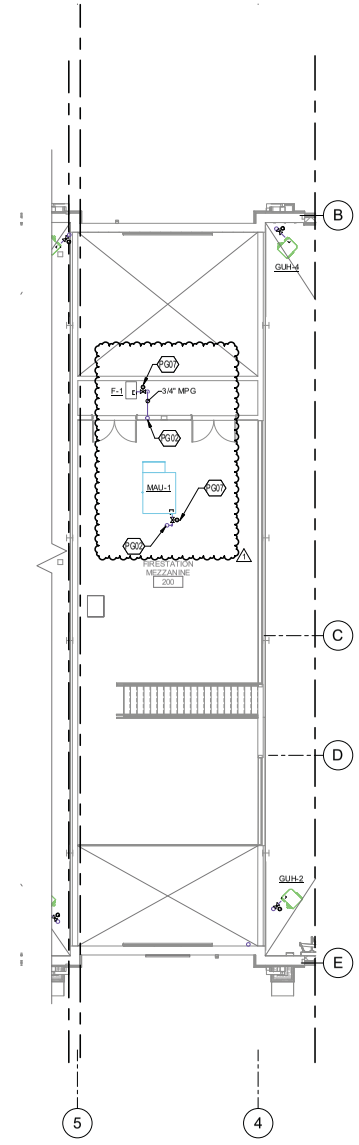


PIPED GASES 2ND FLOOR PLAN - LOGISTICS MEZZANINE

SCALE: 1/8" = 1'-0"



PIPED GASES 2ND FLOOR PLAN - FIRE STATION MEZZANINE

SCALE: 1/8" = 1'-0"

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KEYNOTES

PG02 3/4" MPG DOWN FROM ROOF.
PG06 1" MPG DOWN FROM ROOF.
PG07 PROVIDE GAS REGULATOR AT EQUIPMENT TO PROVIDE 11" W.C. GAS PRESSURE TO EQUIPMENT.

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SEAL:

COLORADO LICENSED
NATHANIEL NORDIN
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PIPED GASES SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET ID:
PG103

PROJECT STATUS:
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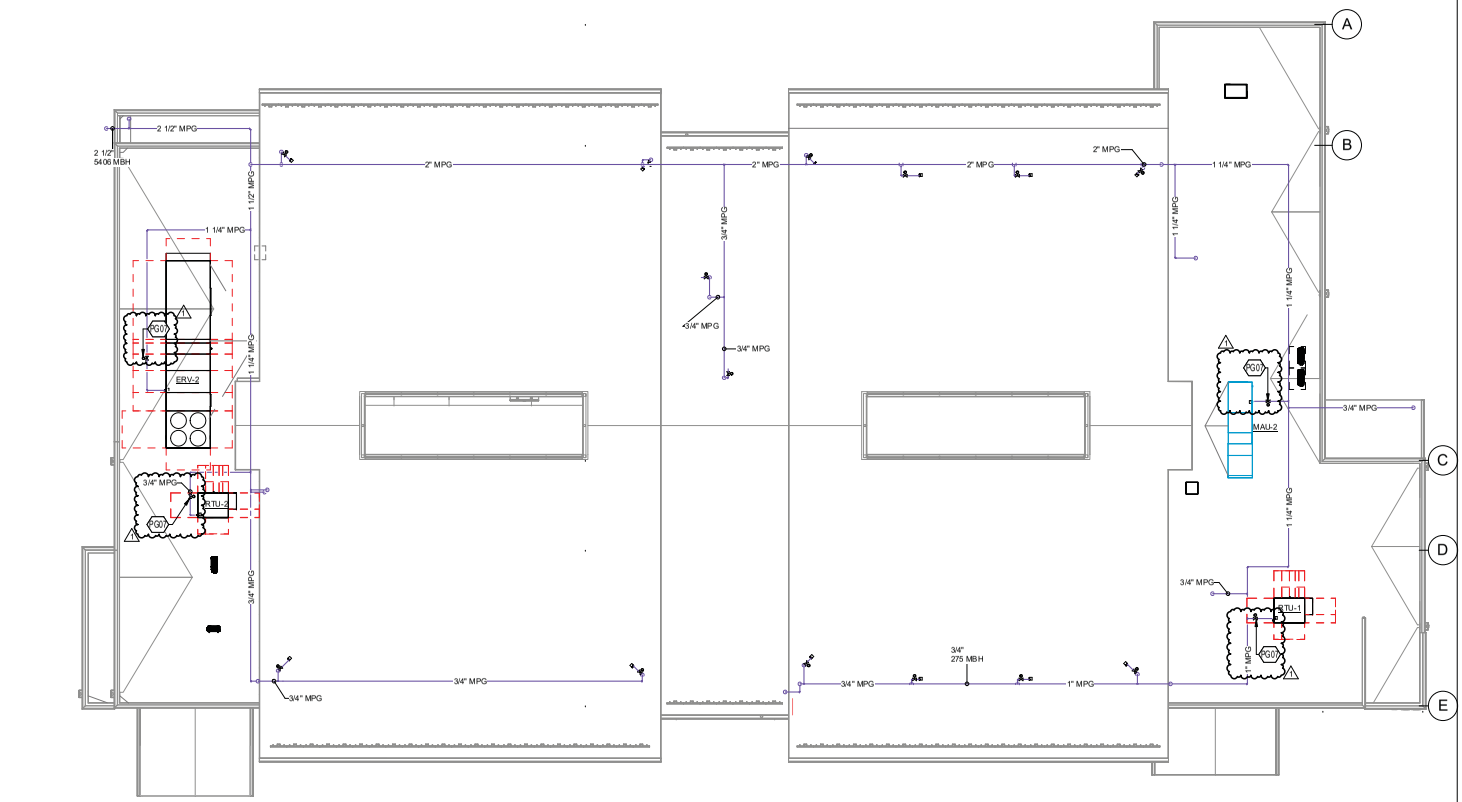

A1 PLUMBING ROOF PLAN

SCALE: 3/32" = 1'-0"

0 8' 16' 24'

PN

GENERAL SHEET NOTES

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KEYNOTES

PG07 PROVIDE GAS REGULATOR AT EQUIPMENT TO PROVIDE 11" W.C. GAS PRESSURE TO EQUIPMENT.

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BRIDGERS & PAXTON

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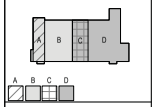
PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:



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SEAL:

COLORADO LICENSED
NATHANIEL ROBERTS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING OVERALL ROOF PLAN

SHEET ID:
PG121

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/26/2026 11:35:28 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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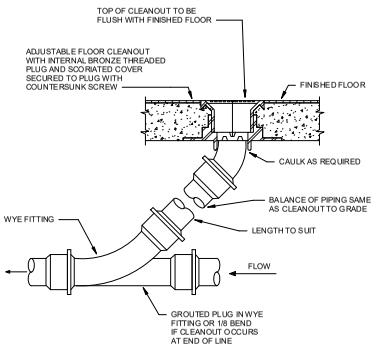
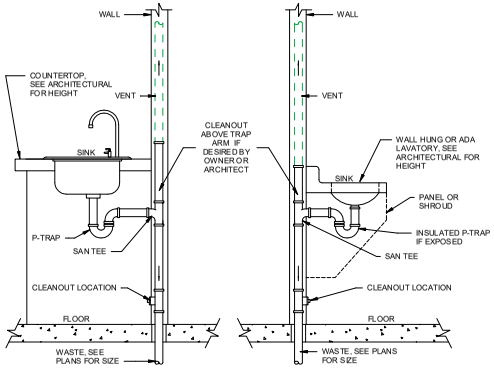


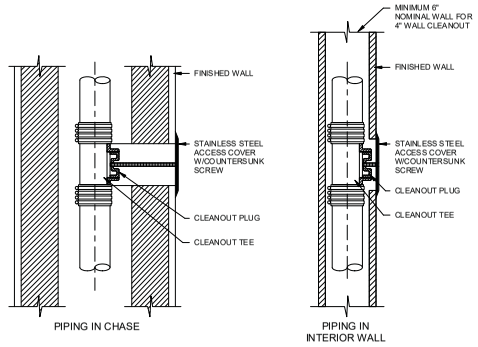
3 FLOOR CLEANOUT

SCALE: NOT TO SCALE



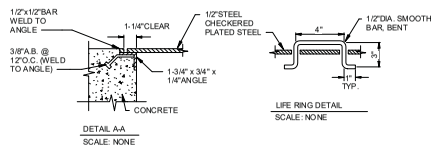
2 WALL CLEANOUT LOCATION AT SINK/LAVATORY

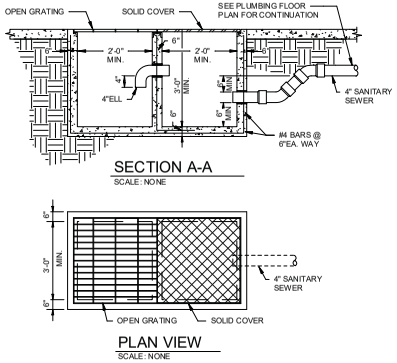
SCALE: NOT TO SCALE



1 WALL CLEANOUT

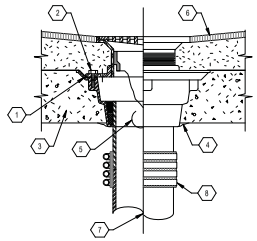
SCALE: NOT TO SCALE





8 SAND INTERCEPTOR - NO EXTENSION

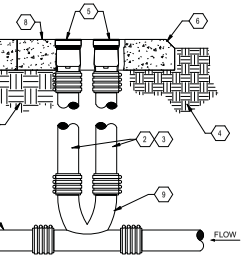
SCALE: NOT TO SCALE



1. FLOOR DRAIN WITH ADJUSTABLE STRAINER, DOUBLE DRAINAGE FLANGE AND WEEP HOLES. SEE FLOOR DRAIN SPECIFICATIONS
2. CLAMP TO 24" X 24" 4# LEAD SHEET AND WATERPROOFING MEMBRANE (NOT REQUIRED FOR SINGLE POUR CONSTRUCTION)
3. CONCRETE FLOOR OF TWO POUR CONSTRUCTION
4. CAULK AS REQUIRED ON INSTALLATION ABOVE GRADE
5. TRAP GUARD WATER SAVING DEVICE SIZED PER DRAIN (IF SPECIFIED)
6. FINISHED FLOOR SLOPED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. COORDINATE WITH STRUCTURAL
7. SEE PLUMBING FLOOR PLANS FOR SIZING AND P-TRAP REQUIREMENTS
8. FOUR BAND HEAVY DUTY CLAMP, SEE SPECIFICATIONS

5 FLOOR DRAIN

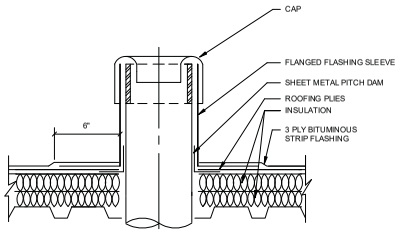
SCALE: NOT TO SCALE



1. SERVICE LINE, SEE SPECIFICATIONS FOR PIPE MATERIALS
2. SAME SIZE AS SERVICE LINE, THRU 4" PIPE, MAXIMUM 4"
3. SIZE REQUIRED FOR CAST IRON SOIL PIPE RISER AND FITTINGS
4. COMPACTED EARTH, SEE SPECIFICATIONS
5. CLEANOUT WITH HEAVY DUTY SCORIATED SECURED TOP
6. 2" CHAMFER ON ALL COLLARS IN EARTH
7. FINISH HARDSCAPE. SEE SITE PLAN DRAWINGS FOR ELEVATIONS
8. 4"THICK CONCRETE PAD
9. TWO-WAY CLEANOUT FITTING

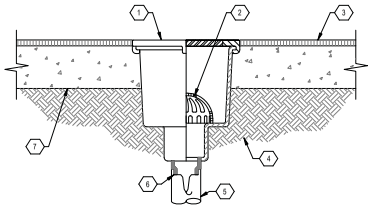
4 DOUBLE CLEANOUT TO GRADE

SCALE: NOT TO SCALE



7 VENT THRU ROOF PENETRATION

SCALE: NOT TO SCALE



1. FLOOR SINK GRATING, SEE FLOOR SINK SPECIFICATIONS
2. DOME STRAINER
3. FINISHED FLOOR
4. COMPACTED EARTH
5. SEE PLUMBING FLOOR PLANS FOR SIZING AND P-TRAP REQUIREMENTS
6. TRAP GUARD WATER SAVING DEVICE (SPECIFIED)
7. STRUCTURAL SLAB

6 FLOOR SINK

SCALE: NOT TO SCALE

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

SEAL:
COLORADO LICENSED
NATHANIEL ROGERS
PE 0060923
PROFESSIONAL ENGINEER

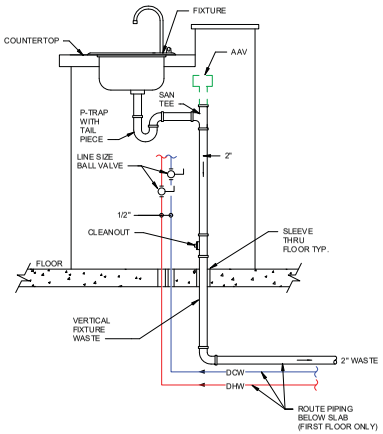
SHEET TITLE:
PLUMBING DETAILS

SHEET ID:
P-501

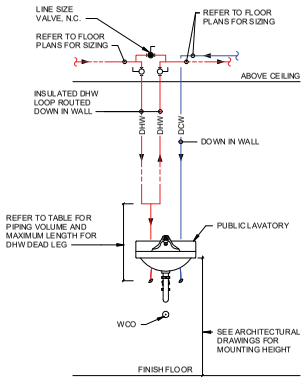
PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/26/2026 11:35:29 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 11:35:29 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

NOTE:
• WATER PIPING BELOW FIRST FLOOR SLAB SHALL BE JOINTLESS, TYPE "L" SOFT TEMPER COPPER.



3 ISLAND SINK - DCW/DHW/W&V
SCALE: NOT TO SCALE



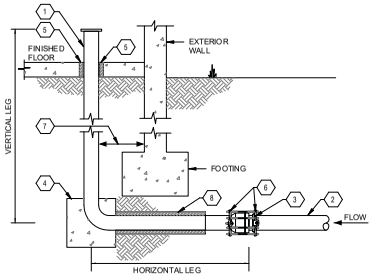
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (INCH)	VOLUME (FL OZ PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FT) FOR PUBLIC LAVATORY
1/4	0.33	6
5/16	0.5	4
3/8	0.75	3
1/2	1.5	2
5/8	2	1
3/4	3	0.5
7/8	4	0.5
1	5	0.5
1 1/4	8	0.5
1 1/2	11	0.5
2 OR LARGER	8	0.5

*PER TABLE C404.5.1 2018 IECC CODE

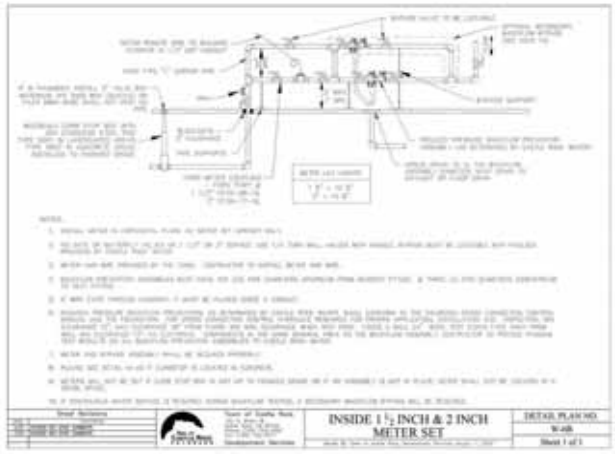
2 DHW CONNECTION TO PUBLIC LAVATORY
SCALE: NOT TO SCALE

NOTE:
• AMES SERIES IBR2: CONNECTION SIZE 2" TO 3"
• AMES SERIES IBR: CONNECTION SIZE 4" TO 12"
• COORDINATE EACH VERTICAL & HORIZONTAL LEG DIMENSIONS WITH MANUFACTURER PRIOR TO PURCHASE

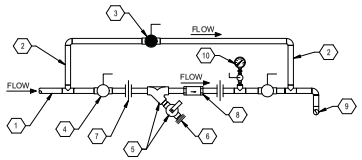


1. AMES IN-BUILDING RISER, STAINLESS STEEL TYPE 304. COORDINATE MODEL NUMBER WITH PLUMBING PLANS AND WATER SERVICE SIZE, PRIOR TO PURCHASE
2. DUCTILE IRON (FOR WATER SERVICE 3" OR LARGER) OR PVC WATER SERVICE
3. MECHANICAL JOINT FROM SUPPLY PIPE TO STAINLESS STEEL, CONTINUE INTO BUILDING WITH STAINLESS STEEL
4. CONCRETE THRUST BLOCK SIZED IN ACCORDANCE WITH IBC IF REQUIRED AHJ
5. PIPE SLEEVE, SEE SPECIFICATIONS
6. MECHANICAL PIPE RESTRAINT
7. VERTICAL SECTION OF RISER LOCATED AS CLOSE AS POSSIBLE TO WALL
8. PROVIDE SLEEVE UNDER FOOTING

1 WATER ENTRY BELOW FOOTING
SCALE: NOT TO SCALE

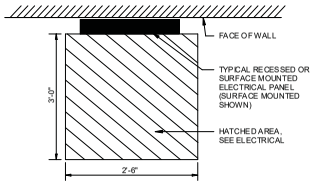


6 CASTLE ROCK WATER ENTRY DETAIL
SCALE: NOT TO SCALE



1. DOMESTIC HOT WATER RETURN LINE, SEE PLANS FOR SIZE
2. BYPASS LINE, MATCH RETURN BRANCH LINE SIZE
3. BYPASS VALVE (NORMALLY CLOSED)
4. BALL VALVE (TYPICAL)
5. STRAINER WITH BLOW DOWN VALVE
6. MALE HOSE THREAD ADAPTER
7. UNION (TYPICAL)
8. CIRCUIT SOLVER, THERMOSTATIC RECIRCULATION VALVE NO.: **CS-3/4-125**
9. DOMESTIC HOT WATER RETURN MAIN
10. HOT WATER THERMOMETER

5 THERMOSTATIC BALANCING VALVE W/BYPASS
SCALE: NOT TO SCALE



NOTE:
NO OVERHEAD PIPING SHALL BE ALLOWED WITHIN HATCHED AREA INDICATED ABOVE

4 CLEARANCE REQUIREMENTS AT TYPICAL ELECTRICAL PANEL
SCALE: NOT TO SCALE

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
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PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

SEAL:
COLORADO LICENSED
NATHANIEL ROGERS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING DETAILS

SHEET ID:
P-502

PROJECT STATUS:
Construction Documents

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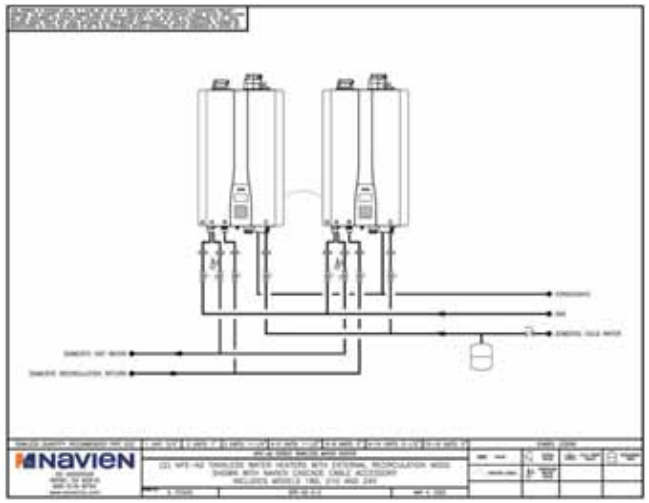
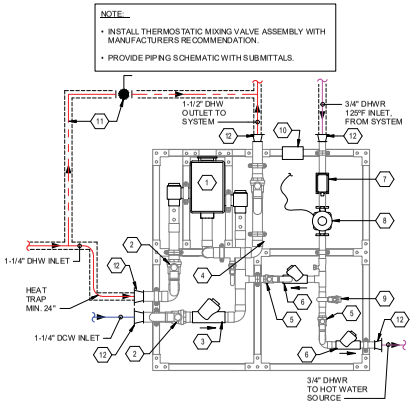
1/26/2026 11:35:30 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



2 TANKLESS WATER HEATER DETAIL

SCALE: NOT TO SCALE

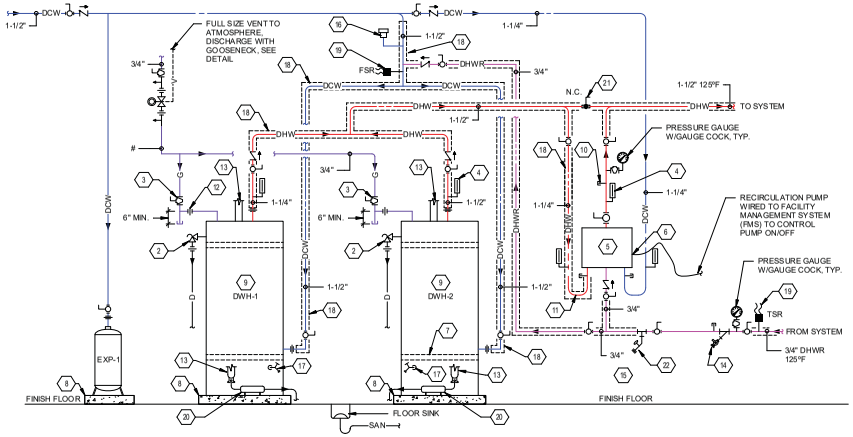


1 NUCLEUS VALVE & CONTROLS
2 2" FULL PORT BALL VALVE
3 2" CHECK VALVE
4 3/4" TEST CONNECTION
5 1-1/4" FULL PORT BALL VALVE
6 1-1/4" CHECK VALVE
7 OPTIONAL AQUASTAT (IF NO FMS OR IF PUMP IS NOT CAPABALE OF TEMPERATURE SENSING TO SELF SHUT ON/OFF)
8 RECIRCULATION PUMP, **TACO 003-IE PLUS.** RECIRCULATION PUMP WIRED TO FACILITY MANAGEMENT SYSTEM (FMS) TO CONTROL PUMP ON/OFF
9 BOILER DRAIN CONNECTION
10 RECIRCULATION PUMP POWER SWITCH, GFCI
11 LINE SIZE BYPASS WITH NORMALLY CLOSED VALVE
12 PROVIDE PIPE TRANSITION IF REQUIRED AT INLETS/OUTLETS

3 DIGITAL MIXING VALVE STATION - LEONARD VALVES

SCALE: NOT TO SCALE

NOTE:
PARALLEL IS DEFINED AS: EQUALLY MANIFOLDING THE INLET COLD WATER PIPE AND OUTLET HOT WATER PIPE IN MULTIPLE HEATER INSTALLATIONS. HAVING EQUAL NUMBER OF FITTINGS AS WELL AS LENGTHS OF PIPE. BOTH HEATERS ARE USED EQUALLY.



1 FLOOR MOUNT EXPANSION TANK, **EXP-1**
2 FULL SIZED T&P RELIEF VALVE. DISCHARGE TO FLOOR SINK WITH AIR GAP OF 2X PIPE DIA. ABOVE FLOOR SINK RIM. TYPICAL FOR EACH DOMESTIC WATER HEATER
3 PLUG VALVE WITH DIRT LEG AND UNION. TYPICAL FOR EACH DOMESTIC WATER HEATER
4 THERMOMETER (TYPICAL)
5 THERMOSTATIC MIXING VALVE, **TMVD-1** MEGATRON SYSTEM, SEE DETAIL 3/P-503.
6 RECIRCULATION PUMP WITH FMS CONTACTORS
7 SEISMIC STRAPPING, TYPICAL OF EACH DOMESTIC WATER HEATER
8 4" MIN. HOUSEKEEPING PAD
9 DOMESTIC WATER HEATER, SEE SPEC'S
10 PETE'S PLUGS (TYPICAL)
11 HEAT TRAP PER MFG. SPEC'S
12 UNION (TYPICAL)
13 COMBUSTION AIR INTAKE AND EXHAUST BY MECHANICAL
14 WYE STRAINER WITH BLOWDOWN VALVE
15 CIRCUIT SETTER/BALANCING VALVE, SET TO GPM SHOWN
16 3/4" VACUUM RELIEF VALVE
17 TANK DRAIN, PROVIDE WITH BALL VALVE AND 3/4" NPT OUTLET.
18 FIRST 8 FT OF PIPING INLET/OUTLET MUST BE INSULATED PER 2018 IECC (SEC. C404.3). INSULATE HOT WATER SYSTEM PER SPECIFICATIONS
19 FLOW SENSOR (FSR) ON COLD WATER INLET. TEMPERATURE SENSOR (TSR) ON HOT WATER RETURN, WIRED TO FACILITY MANAGEMENT SYSTEM (FMS), PER 2018 IECC C404.6.1. **FLOW SENSOR FURNISHED BY CONTROLS CONTRACTOR AND SPECIFIED IN DIVISION 23 0900.**
20 CONDENSATE NEUTRALIZER. DISCHARGE TO FLOOR SINK WITH AIR GAP OF 2X PIPE DIA. ABOVE FLOOR SINK RIM
21 LINE SIZE HOT WATER BYPASS WITH LINE SIZE NORMALLY CLOSED VALVE
22 PIPE MOUNT HOSE BIB

NOTE:
• WATER HEATER SHALL BE OF THE DIRECT VENTING TYPE, COORDINATE WITH MECHANICAL
• INSTALL THERMOSTATIC MIXING VALVE ASSEMBLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
• PROVIDE PIPING SCHEMATIC WITH SUBMITTALS.

1 TWO - PARALLEL DOMESTIC WATER HEATERS - IECC

SCALE: NOT TO SCALE

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
NATHANIEL ROWE
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING DETAILS

SHEET ID:
P-503

PROJECT STATUS:
Construction Documents

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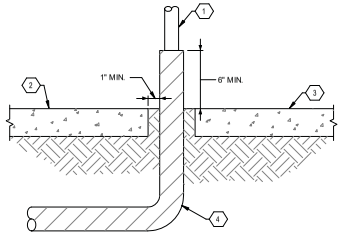
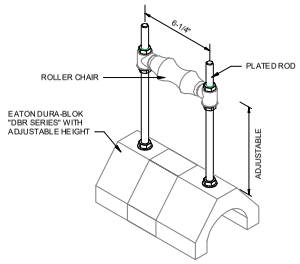
1/26/2026 11:35:31 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



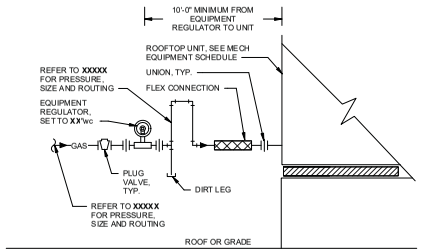
3 GAS HARDSCAPE PENETRATION

SCALE: NOT TO SCALE



2 GAS ROOF TOP PIPE SUPPORT

SCALE: NOT TO SCALE



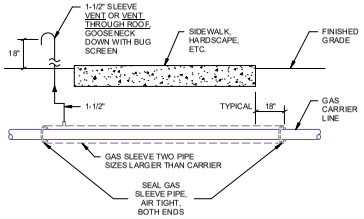
NOTES:

ALL NATURAL GAS PIPING COMPONENTS INSTALLED OUTDOORS SHALL BE RATED FOR OUTDOOR INSTALLATION.

ALWAYS POSITION THE REGULATOR VENT SO MOISTURE OR FOREIGN PARTICLES CANNOT ENTER THE VENT OPENING. REFER MANUFACTURER'S INSTALLATION

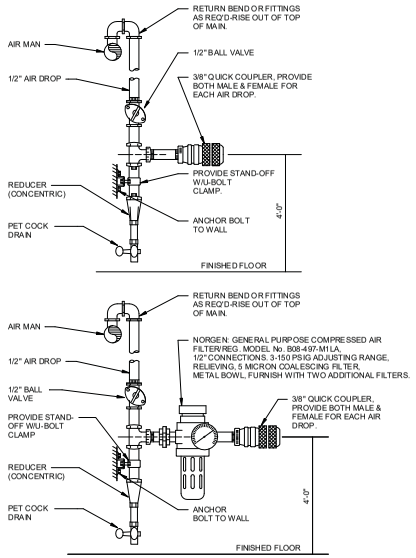
5 GAS ROOFTOP UNIT CONNECTION

SCALE: NOT TO SCALE



4 TYPICAL GAS SLEEVE

SCALE: NOT TO SCALE



1 AIR DROP

SCALE: NOT TO SCALE

8 0 8 16

SCALE: 1/8" = 1'-0"

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

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DESIGNED BY:	Designer

PROJECT NUMBER:
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SEAL:

COLORADO LICENSED
NATHANIEL ROBERTS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING DETAILS

SHEET ID:
P-504

PROJECT STATUS:
Construction Documents

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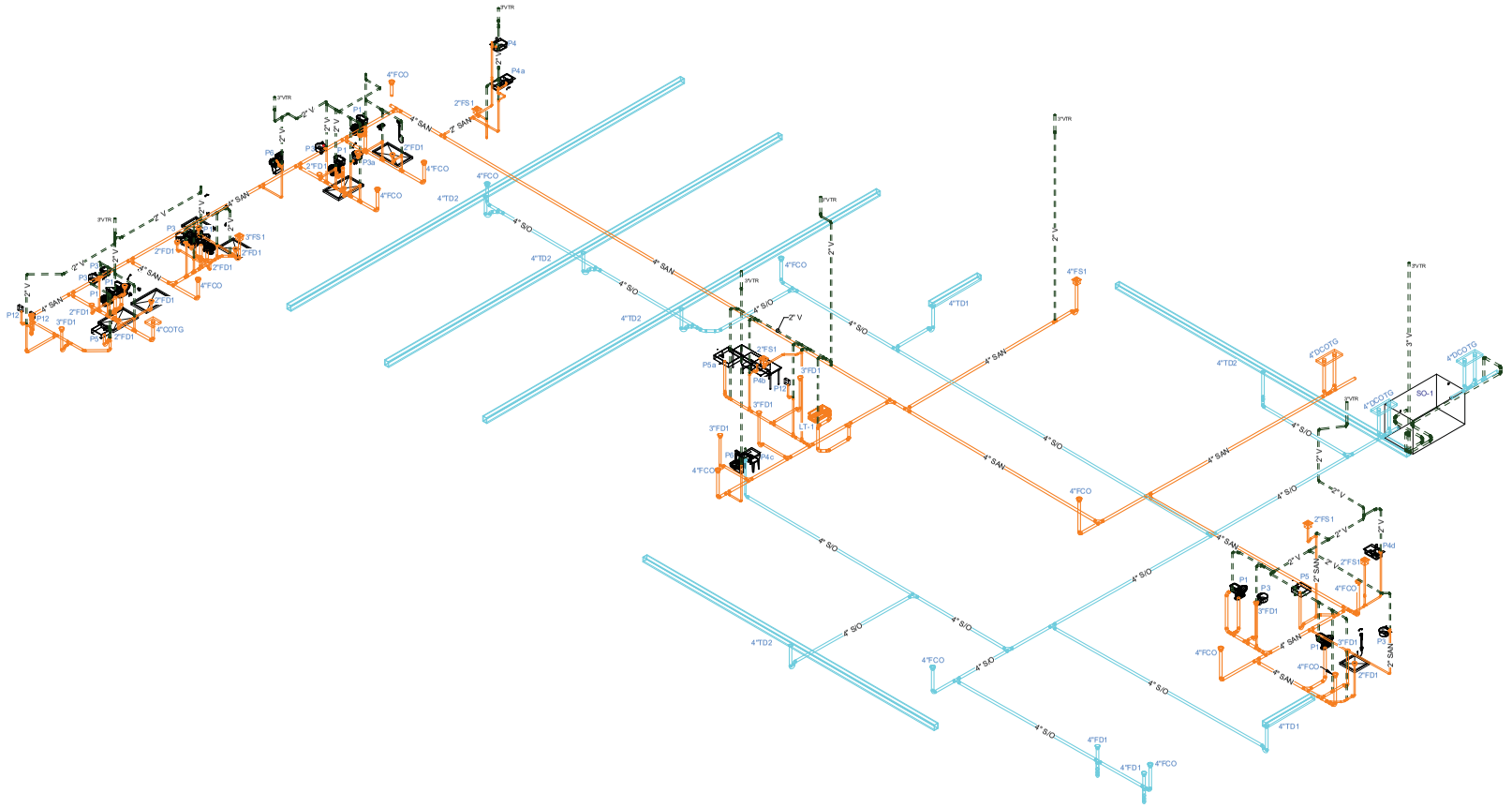

1 WASTE AND VENT RISER

SCALE: NOT TO SCALE

SCALE: 1/8" = 1'-0"

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COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: NCW
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
NATHANIEL NORRIS
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING DIAGRAMS

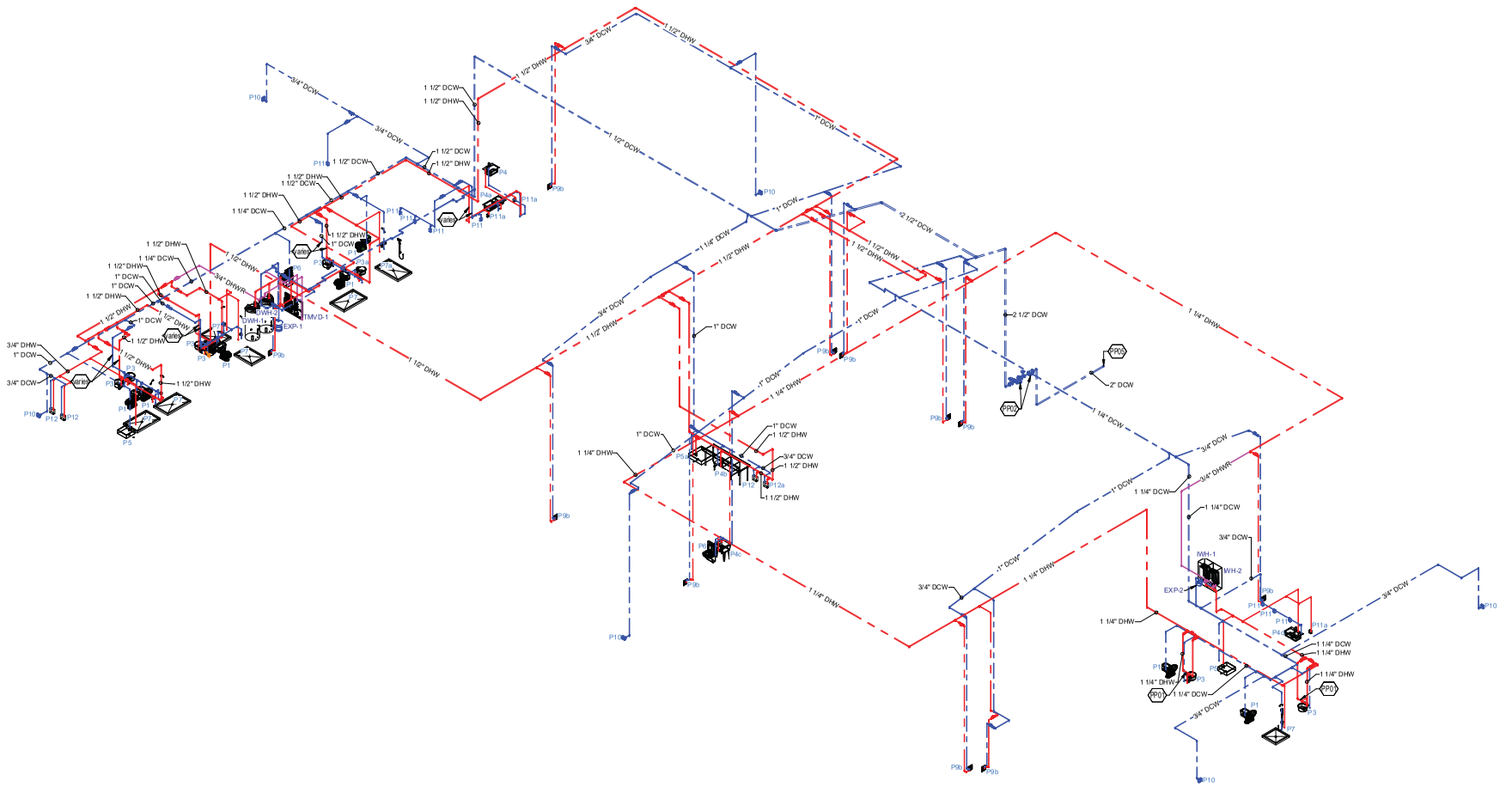
SHEET ID:
P-601

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 11:35:33 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 11:35:33 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

KEYNOTES

<varie
s>
PP01 DOMESTIC WATER RISERS, LOCATED IN WALL, FROM CEILING TO CIRCULATE WITHIN 2'-0" OF FIXTURE PER IECC REQUIREMENTS.
PP02 NEW 1.5" WATER METER AND 2" BACKFLOW PREVENTER.
PP05 SEE CIVIL FOR CONTINUATION



1 DOMESTIC WATER RISER
SCALE: NOT TO SCALE

SCALE: 1/8" = 1'-0"

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REVISIONS

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1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
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DESIGNED BY:	NCW
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SEAL:
COLORADO LICENSED
NATHANIEL ROWE
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING DIAGRAMS

SHEET ID:
P-602

PROJECT STATUS:
Construction Documents

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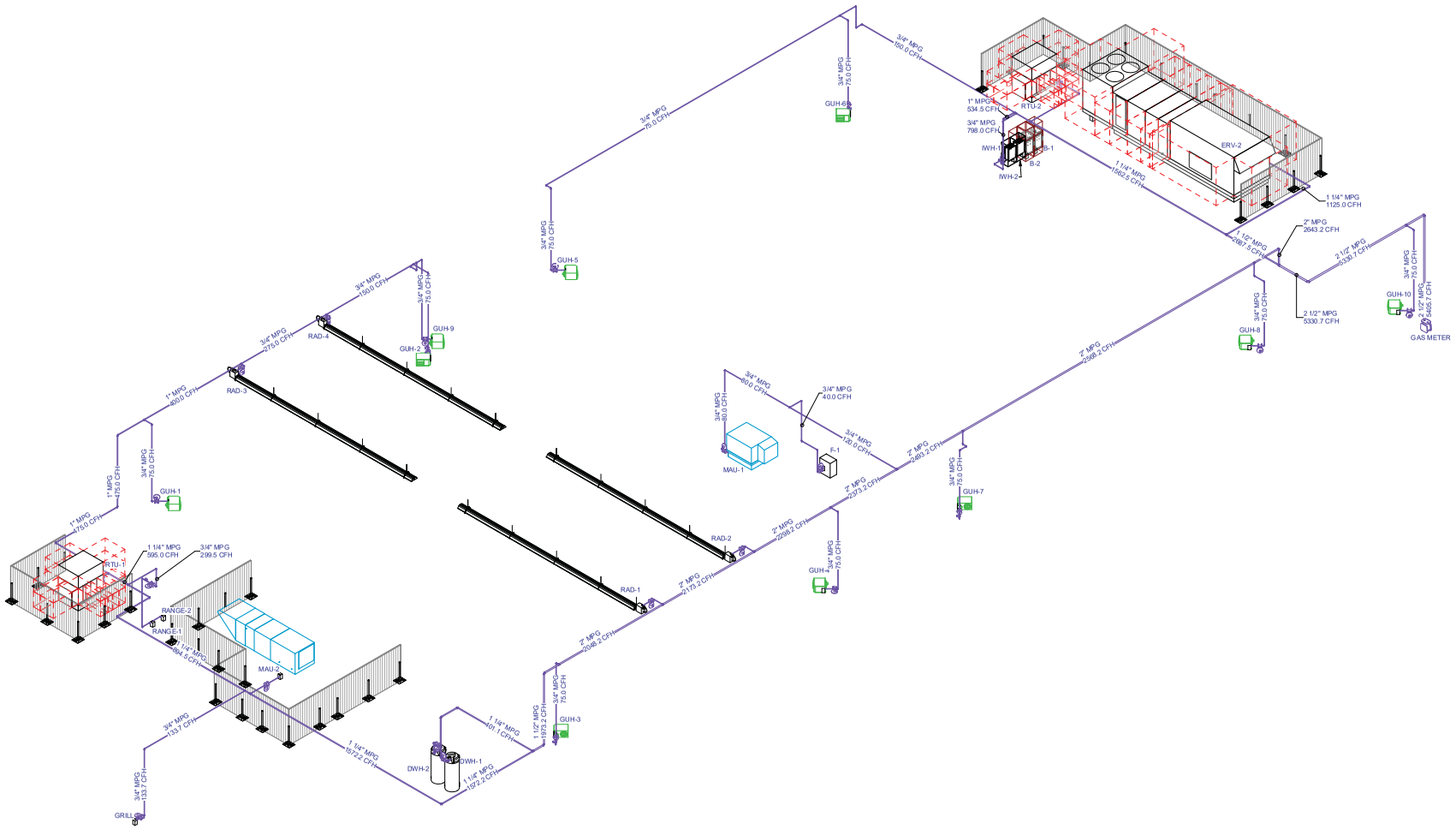

1 NATURAL GAS RISER

SCALE: NOT TO SCALE

SCALE: 1/8" = 1'-0"

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COLORADO LICENSED
NATHANIEL ROBERTS
PE 0060923
PROFESSIONAL ENGINEER

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PLUMBING DIAGRAMS

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P-603

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PLUMBING FIXTURE SCHEDULE

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION

SYMBOL	FIXTURE: TYPE	FIXTURE: MANUFACTURER	FIXTURE: MODEL	TRIM/FAUCET: MANUFACTURER	TRIM/FAUCET: MODEL	FLOW RATE	ELECTRICAL INFO: V	PH	HZ	A	SYMBOL	REMARKS:
P1	WATER CLOSET (BARRIER FREE) - FLOOR MTD. - FLUSH TANK	AMERICAN STANDARD	2467.100	-	-	1.1 GPF	-	-	-	-	P1	PRESSURE ASSIST FLUSH TANK, 2 PIECE, 3" FLUSH VALVE, 1.1 GPF, 2-1/8" GLAZED TRAPWAY, EVERCLEAN SURFFACE, ELONGATED BOWL, VITREOUS CHINA, POLISHED CHROME, 12" ROUGH-IN. SEAT: SOLID PLASTIC, OPEN FRONT, ELONGATED, WITHOUT COVER, STAINLESS STEEL CHECK HINGE MFG: AMERICAN STANDARD 5901.100SS OR EQUIVALENT RIM HEIGHT: 16-1/2"
P3	LAVATORY COUNTER TOP - ROUND - MANUAL	AMERICAN STANDARD	AQUALYN 0476.028	AMERICAN STANDARD	6114.115.002	0.5 GPM	-	-	-	-	P3	DROP-IN, THREE HOLE, OVAL BASIN, WHITE VITREOUS CHINA, 4" CENTERS, 20-3/8" x 17-3/8". FAUCET: MANUAL, SINGLE LEVER, DECK MOUNTED, 4" FIXED CENTERS, CHROME PLATED, RIGID CAST BRASS SPOUT, VANDAL PROOF, NON-AERATING SPRAY. PROVIE: GRID WITH 1-1/4" TAILPIECE AND OFFSET DRAIN, 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. NOTE: BARRIER FREE LAVATORIES SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS WHICH SATISFY ANSI A117.1 REQUIREMENTS
P3a	LAVATORY (BARRIER FREE) COUNTER TOP - ROUND - MANUAL	AMERICAN STANDARD	AQUALYN 0476.028	AMERICAN STANDARD	6114.115.002	0.5 GPM	-	-	-	-	P3a	DROP-IN, THREE HOLE, OVAL BASIN, WHITE VITREOUS CHINA, 4" CENTERS, 20-3/8" x 17-3/8". FAUCET: MANUAL, SINGLE LEVER, DECK MOUNTED, 4" FIXED CENTERS, CHROME PLATED, RIGID CAST BRASS SPOUT, VANDAL PROOF, NON-AERATING SPRAY. PROVIE: GRID WITH 1-1/4" TAILPIECE AND OFFSET DRAIN, 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. NOTE: BARRIER FREE LAVATORIES SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS WHICH SATISFY ANSI A117.1 REQUIREMENTS
P4	SINK - FIRE ISLAND	ELKAY	ECTSRAD252260	AMERICAN STANDARD	4803300.075	1.5 GPM	-	-	-	-	P4	UNDERMOUNT, SINGLE COMPARTMENT, OVERALL 25"x22"x6" DEEP, 18 GAUGE, 304 STAINLESS STEEL. FAUCET: MANUAL, DECK MOUNTED, STAINLESS STEEL FINISH, SINGLE HOLE, ONE-PIECE LEVER HANDLE, 1.5 GPM FLOW WITH AERATOR, 9-3/4" HIGH ARCH SPOUT, QUARTER TURN COMPRESSION. PROVIDE: BASKET STRAINER WITH 1-1/2" TAILPIECE. MFG: ELKAY NO. LK35. DRAIN: 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK REFER TO ARCHITECURAL FOR MOUNTING HEIGHTS NOTE: BARRIER FREE SINKS SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS THAT SATISFY ANSI A117.1 REQUIREMENTS.
P4a	SINK - KITCHEN	ELKAY	ELUHAD421855	AMERICAN STANDARD	4803300.075	1.5 GPM	-	-	-	-	P4a	UNDERMOUNT, DOUBLE COMPARTMENT, OVERALL 43"x22"x10-1/8" DEEP, 18 GAUGE, 304 STAINLESS STEEL. FAUCET: PULL-DOWN DUEL SPRAY KITCHEN FAUCET WITH CHROME FINISH, PROVIDE WITH DECK PLATE. GARBAGE DISPOSAL: BADGER 5 MODEL, 1725 RPM, 1/2 HP, 1 PH, 120V, 60HZ, 6.3 AMP. PROVIDE: BASKET STRAINER MFG: JUST J-35, 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK REFER TO ARCHITECURAL FOR MOUNTING HEIGHTS NOTE: BARRIER FREE SINKS SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS THAT SATISFY ANSI A117.1 REQUIREMENTS
P4b	SINK - DECON	ADVANCE TABCO	FS-2-1824-24RL	T&S BRASS	B-0131-C	0.65 GPM	-	-	-	-	P4b	FULL SKIRT, TWO COMPARTMENT, 14 GAUGE STAINLESS STEEL, 3/4" COVERED CORNER, 18"x24"x14" DEEP, 24" LEFT/RIGHT SHELF, 84" TOTAL LENGTH, ADJUSTABLE BULLET FEET, 8" CENTERS, CENTER DRAIN. FAUCET: PRE-RINSE SPRAYER, WALL MOUNTED, CHROME PLATED BRASS, ADJUSTABLE ARMS FOR 7-3/4" TO 8-1/4", WATER CONSERVING, 0.65 GPM FLOW @ 60 PSI, QUARTER TURN COMPRESSION, LEVER HANDLE, 20" FLEXIBLE STAINLESS STEEL HOSE, PIPE STRAP AND HOOK ASSEMBLY, INTEGRAL CHECK VALVE. ADDITIONAL WALL MOUNTED FAUCET WITH FOOT PEDAL CONTROL FOR HANDS FREE USE, MFG: T&S BRASS MODEL B-0537 FOOT PEDALS: HOT AND COLD PEDAL WITH EXTENDED PEDALS, LOOSE KEY STOPS, MFG: T&S BRASS MODEL B-0504-01 PROVIDE: BASKET STRAINER WITH 1-1/2" TAILPIECE, 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK REFER TO ARCHITECURAL FOR MOUNTING HEIGHTS NOTE: BARRIER FREE SINKS SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS THAT SATISFY ANSI A117.1 REQUIREMENTS.
P4c	SINK - BUNKER UTILITY	ADVANCE TABCO	FC-FM-2721-F	ADVANCE TABCO	K-159	1.5 GPM	-	-	-	-	P4c	ONE STATION FLOOR MOUNTED SINK WITH TUBULAR LEGS & CROSS BRACING, 8-1/2" HIGH BACKSPLASH, OVERALL BOWL DIMENSIONS: 27" x 21-1/2" x 12", 16 GAUGE, 304 STAINLESS STEEL. FAUCET: MANUAL, WALL MOUNTED, STAINLESS STEEL FINISH, 8" ON CENTER, 3-1/2" GOOSENECK SPOUT, QUARTER TURN COMPRESSION. PROVIDE: BASKET STRAINER WITH 1-1/2" TAILPIECE. MFG: ADVANCED TABCO K-6 & K-410 DRAIN: 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK REFER TO ARCHITECURAL FOR MOUNTING HEIGHTS NOTE: BARRIER FREE SINKS SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS THAT SATISFY ANSI A117.1 REQUIREMENTS.
P4d	SINK - LOGISTICS BREAK	ELKAY	ELUHAD311855	AMERICAN STANDARD	4803300.075	1.5 GPM	-	-	-	-	P4d	UNDERMOUNT, DOUBLE COMPARTMENT, OVERALL 31"x18"x10-5-3/8" DEEP, 18 GAUGE, 304 STAINLESS STEEL. FAUCET: PULL-DOWN DUEL SPRAY KITCHEN FAUCET WITH CHROME FINISH. GARBAGE DISPOSAL: BADGER 5 MODEL, 1725 RPM, 1/2 HP, 1 PH, 120V, 60HZ, 6.3 AMP. PROVIDE: BASKET STRAINER MFG: JUST J-35, 1/2" O.D. X 3/8" LOOSE KEY ANGLE STOPS WITH 3/8" O.D. RISERS. SUPPLIES: 1-1/2" TUBULAR ADJUSTABLE P-TRAP, 17 GAUGE, POLISHED CHROME TRAP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK REFER TO ARCHITECURAL FOR MOUNTING HEIGHTS NOTE: BARRIER FREE SINKS SHALL BE INSULATED WITH PLUMBEREX PRO-2000 SERIES INSULATION KITS THAT SATISFY ANSI A117.1 REQUIREMENTS
P5	SERVICE SINK	FIAT PRODUCTS	MSB2424	FIAT PRODUCTS	830 AA	2.0 GPM	-	-	-	-	P5	FLOOR MOUNTED, MOLDED STONE, 24"X24"X12" DEEP, 3" DRAIN, STAINLESS STEEL CAP ON ALL CURBS. FAUCET: WALL MOUNTED SERVICE FAUCET 42" ABOVE FLOOR, CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. PROVIDE: INTEGRAL STAINLESS STEEL STRAINER DRAIN, 3" CAST IRON P-TRAP, HOSE AND BRACKET, 30" LONG FLEXIBLE HEAVY DUTY 5/8" RUBBER HOSE, MFG: FIAT NO. 832 AA. MOP BRACKET, 24" LONG X 3" WIDE, STAINLESS STEEL WITH THREE RUBBER GRIPS. MFG: FIAT NO. 889 CC.
P5a	SERVICE SINK	FIAT PRODUCTS	TSB3002	T&S BRASS	PG-8WREV	2.0 GPM	-	-	-	-	P5a	FLOOR MOUNTED, TERRAZZO, 36"X36"X12" DEEP, 6" DROP FRONT, 3" DRAIN, STAINLESS STEEL CAP ON ALL CURBS. FAUCET: 8" WALL MOUNTED "PET GROOMING" FAUCET 42" ABOVE FLOOR, WITH VACUUM BREAKER, QUARTER-TURN CARTRIDGES WITH SPRING CHECKS & LEVER HANDLES WITH COLOR CODED INDEXES, 9' MAX STRETCH COILED POLYURETHANE HOSE WITH LIGHTWEIGHT ALUMINUM SRAY VALVE WITH RUBBER GRIP & HOLD DOWN CLIP, HOSE HANGER HOOK WITH MOUNTING SCREWS. PROVIDE: INTEGRAL STAINLESS STEEL STRAINER DRAIN, 3" CAST IRON P-TRAP, MFG: FIAT NO. 832 AA. MOP BRACKET, 24" LONG X 3" WIDE, STAINLESS STEEL WITH THREE RUBBER GRIPS. MFG: FIAT NO. 889 CC.
P6	ELECTRIC WATER COOLER W/BOTTLE FILLER (BARRIER FREE)	ELKAY	LZS8WSMP-PF	-	-	8 GPH	120	1	60	6	P6	BI-LEVEL, REFRIGERATED, WALL MOUNTED, SS, SENSOR OPERATED BOTTLE FILLER, VANDAL RESISTANT, HEAVY-DUTY, ANTIMICROBIAL,GALVANIZED FRAME SHALL SUPPORT 14 GAUGE STAINLESS STEEL EXTERIOR PANELS. 8 GPH CAPACITY AT 90 DEGREE AMBIENT AND 50 DEGREE WATER OUTLET. NOTE: PROVIDE WITH 3 WIRE GROUNDING TYPE CORD AND PLUG, UL LISTED AND WALL CARRIER.
P7	SHOWER	BUILT-UP ENCLOSURE PER ARCHITECT'S SPECIFICATIONS, SHOWER TRIM AS SPECIFIED	-	MOEN	T8375EP15 (WaterSense)	1.5 GPM	-	-	-	-	P7	EPOXY FLOORING PER ARCHITECT'S SPECIFICATIONS. 2" SHOWER DRAIN (SEE DRAIN SCHEDULE), 2" CAST IRON P-TRAP. PROVIDE ADDITIONAL DRAINS IF REQUIRED OUTSIDE OF SHOWER COMPARTMENT, COORDINATE WITH THRESHOLD AND FLOOR SLAB SLOPE. BRASS CONSTRUCTION, CHROME PLATED, VANDAL RESISTANT SCREWS, LEVER STYLE HANDLE. TEMPTROL PRESSURE-BALANCING MIXING VALVE: 8371HD, 1/4 TURN STOPS, BRASS CONSTRUCTION, ADJUSTABLE TEMPERATURE LIMIT STOPS, 1/2" CC CONNECTION WITH INTEGRAL STOPS, BRASS CARTRIDGE DESIGN. BACK TO BACK VALVE INSTALLATION REQUIRES 0'-6-3/4" MIN. WALL CAVITY.
P7a	SHOWER (BARRIER FREE)	BUILT-UP ENCLOSURE PER ARCHITECT'S SPECIFICATIONS, SHOWER TRIM AS SPECIFIED	-	MOEN	T8342EP15 (WaterSense)	1.5 GPM	-	-	-	-	P7a	EPOXY FLOORING PER ARCHITECT'S SPECIFICATIONS. 2" SHOWER DRAIN (SEE DRAIN SCHEDULE), 2" CAST IRON P-TRAP. PROVIDE ADDITIONAL DRAINS IF REQUIRED OUTSIDE OF SHOWER COMPARTMENT, COORDINATE WITH THRESHOLD AND FLOOR SLAB SLOPE. CHROME PLATED METAL CONSTRUCTION, VANDAL RESISTANT SCREWS, ADA LEVER STYLE HANDLES, 3 FUNCTION TRANSFER VALVE, SHOWERHEAD, HAND-HELD SHOWER, METAL HOSE, SLIDE BAR (NOT TO BE USED AS GRAB BAR). TEMPTROL PRESSURE-BALANCING MIXING VALVE: 8371HD, 1/4 TURN STOPS, BRASS CONSTRUCTION, ADJUSTABLE TEMPERATURE LIMIT STOPS, 1/2" CC CONNECTION WITH INTEGRAL STOPS, BRASS CARTRIDGE DESIGN. NOTE: INSTALL SHOWER CONTROL & DIVERTER VALVES ABOVE HORIZONTAL ADA GRAB BAR PER LATEST STANDARDS FOR ACCESSIBLE DESIGN. COORDINATE WITH ARCHITECT'S DRAWINGS PRIOR TO INSTALLATION OF SHOWER CONTROL & DIVERTER VALVES.
P9b	HOSE BIB CW HW	LEONARD VALVE	ST-75-LF-ED	---	---	-	-	-	-	-	P9b	STAINLESS STEEL, MANUAL BALANCING BLENDER HOSE STATION. PROVIDE HOSE REEL, COXREELS SP SERIES MODEL SLPL-5100, VERIFY SELECTION WITH CUSTOMER BEFORE ORDERING PRODUCT.
P10	WALL HYDRANT	WOODFORD	B65P	-	-	-	-	-	-	-	P10	FREEZE-PROOF, INTEGRAL VACUUM BREAKER, WITH LOOSE-KEY, LOCKABLE DOOR, 3/4" INLET AND 3/4" GARDEN HOSE OUTLET, CHROME PLATED FINISH
P11	SUPPLY BOX	GUY GRAY	MIB1HAAB	-	-	-	-	-	-	-	P11	SPACE SAVER DESIGNED FOR ICEMAKER HOOK-UP. ROUGH OPENING: 4-1/8"Wx4-3/4"Hx2"D. VALVE: COMPRESSION ANGLE VALVE 1/2" FIP INLETx1/4" OUTLET
P11a	SUPPLY BOX HW	IPS WATER TITE	DW1200HA	-	-	-	-	-	-	-	P11a	SPACE SAVER DESIGNED FOR ICEMAKER HOOK-UP. ROUGH OPENING: 4-1/2"Wx5-1/4"Hx3-1/2"D. VALVE: COMPRESSION ANGLE VALVE 1/2" FIP INLETx1/4" OUTLET
P12	WASHER ROUGH-IN BOX	IPS WATER TITE	MBS1200HA	-	-	-	-	-	-	-	P12	MULTI-BOX, SINGLE WASHING MACHINE OUTLET BOX, QUARTER TURN VALVES, WATER HAMMER ARRESTORS, KNOCK OUTS, RAISED GRIP GUARDS, 4-1/2" X 5-1/4" X 3-1/2" ROUGH OPENING WITH UNIVERSAL FACEPLATE, 2" DRAIN PIPE CONNECTION.
P12a	WASHER ROUGH-IN BOX	ACORN ENGINEERING	8186-SSLF	-	-	-	-	-	-	-	P12a	MULTI-BOX, SINGLE WASHING MACHINE OUTLET BOX, QUARTER TURN VALVES, WATER HAMMER ARRESTORS, KNOCK OUTS, RAISED GRIP GUARDS, 4-1/2" X 5-1/4" X 3-1/2" ROUGH OPENING WITH UNIVERSAL FACEPLATE, 2" DRAIN PIPE CONNECTION.

FLOOR/ROOF DRAIN SCHEDULE

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION

SYMBOL	MANUFACTURER	MODEL	VENT	REMARKS:
LT-1	STRIEM	TT-3	2"	POLYETHYLENE DRAIN TROUGH 19 GALLON CAPACITY. INSTALL BELOW GRADE WITH TOP OF TROUGH FLUSH WITH FINISHED FLOOR. ROUTE EXTRACTOR DRAIN TO TROUGH.
2"FD1	JAY. R. SMITH	2005Y-A-05-NB-U-HP	2"	5" NICKEL BRONZE STRAINER HEAD, ROUND TOP, FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND ADJUSTABLE STRAINER HEAD, FLASHING COLLAR, HEEL PROOF STRAINER,VANDAL PROOF SECURED TOP, DEEP SEAL P-TRAP. STRAINER OPEN AREA: 7 SQUARE INCHES SERVICE: LIGHT DUTY, SHOWERS, TOILETS, KITCHENS. SIZE AS INDICATED ON DRAWINGS. PROVIDE TRAP GUARD, SURE SEAL OR EQUAL, SIZE AND TYPE TO FIT DRAIN.
3"FD1	JAY. R. SMITH	2005Y-A-06-NB-U-HP	2"	6" NICKEL BRONZE STRAINER HEAD, ROUND TOP, FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND ADJUSTABLE STRAINER HEAD, FLASHING COLLAR, HEEL PROOF STRAINER,VANDAL PROOF SECURED TOP, DEEP SEAL P-TRAP. STRAINER OPEN AREA: 9 SQUARE INCHES SERVICE: LIGHT DUTY, SHOWERS, TOILETS, KITCHENS. SIZE AS INDICATED ON DRAWINGS. PROVIDE TRAP GUARD, SURE SEAL OR EQUAL, SIZE AND TYPE TO FIT DRAIN.
4"FD1	JAY. R. SMITH	2005Y-A-07-NB-U-HP	2"	7" NICKEL BRONZE STRAINER HEAD, ROUND TOP, FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND ADJUSTABLE STRAINER HEAD, FLASHING COLLAR, HEEL PROOF STRAINER,VANDAL PROOF SECURED TOP, DEEP SEAL P-TRAP. STRAINER OPEN AREA: 14 SQUARE INCHES SERVICE: LIGHT DUTY, SHOWERS, TOILETS, KITCHENS. SIZE AS INDICATED ON DRAWINGS. PROVIDE TRAP GUARD, SURE SEAL OR EQUAL, SIZE AND TYPE TO FIT DRAIN.
2"FS1	JAY R. SMITH	3100Y-FBS-12	2"	CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED GRATE, ALUMINUM DOME BOTTOM STRAINER WITH 1/2 GRATE, DEEP SEAL P-TRAP. DIAMETER OF OUTLET AS SHOWN ON DRAWINGS. PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL. SIZE AND TYPE TO FIT DRAIN.
3"FS1	JAY R. SMITH	3100Y-FBS-12	2"	CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED GRATE, ALUMINUM DOME BOTTOM TRAINER WITH 1/2 GRATE, DEEP SEAL P-TRAP. DIAMETER OF OUTLET AS SHOWN ON DRAWINGS. PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL. SIZE AND TYPE TO FIT DRAIN.
4"FS1	JAY R. SMITH	3100Y-FBS-12	2"	CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED GRATE, ALUMINUM DOME BOTTOM STRAINER WITH 1/2 GRATE, DEEP SEAL P-TRAP. DIAMETER OF OUTLET AS SHOWN ON DRAWINGS. PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL. SIZE AND TYPE TO FIT DRAIN.
4"TD1	JAY R. SMITH	9814	2"	6" WIDE CHANNEL SLOPE PRECAST POLYMER, HEAVY DUTY, 4" OUTLET DISCHARGE, ON GRADE APPLICATION ONLY, DOME STRAINER, INTERLOCKING TONGUE AND GROVE ENDS, BUILT-IN SLOPE OF 0.6%, SLOTTED STAINLESS STEEL GRATE.
4"TD2	JAY R. SMITH	9814	2"	6" WIDE CHANNEL SLOPE PRECAST POLYMER, HEAVY DUTY, 4" CENTER OUTLET DISCHARGE, ON GRADE APPLICATION ONLY, DOME STRAINER, INTERLOCKING TONGUE AND GROVE ENDS, BUILT-IN SLOPE OF 0.6%, SLOTTED STAINLESS STEEL GRATE.

PLUMBING ROUGH-IN SCHEDULE

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION

SYMBOL	FIXTURE	ROUGH-IN SIZE: CW	HW	WASTE	VENT	TRAP
P1	WATER CLOSET (BARRIER FREE) - FLOOR MTD. - FLUSH TANK	1/2"	-	4"	2"	INTEGRAL
P3	LAVATORY COUNTER TOP - ROUND - MANUAL	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P3a	LAVATORY (BARRIER FREE) COUNTER TOP - ROUND - MANUAL	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P4	SINK - FIRE ISLAND	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P4a	SINK - KITCHEN	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P4b	SINK - DECON	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P4c	SINK - BUNKER UTILITY	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P4d	SINK - LOGISTICS BREAK	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P5	SERVICE SINK	1/2"	1/2"	3"	2"	3"
P5a	SERVICE SINK	1/2"	1/2"	3"	2"	3"
P6	ELECTRIC WATER COOLER W/BOTTLE FILLER (BARRIER FREE)	1/2"	-	2"	1-1/2"	1-1/4" X 1-1/2"
P7	SHOWER	1/2"	1/2"	2"	2"	2"
P7a	SHOWER (BARRIER FREE)	1/2"	1/2"	2"	2"	2"
P9b	HOSE BIB CW HW	3/4"	3/4"	-	-	-
P10	WALL HYDRANT	3/4"	-	-	-	-
P11	SUPPLY BOX	1/2"	-	-	-	-
P11a	SUPPLY BOX HW	1/2"	1/2"	-	-	-
P12	WASHER ROUGH-IN BOX	1/2"	1/2"	2"	2"	2"
P12a	WASHER ROUGH-IN BOX	3/4"	3/4"	2"	2"	2"

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCAV
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED PROFESSIONAL ENGINEER NATHANAEL NORRIS PE 0060923

SHEET TITLE:
PLUMBING SPECIFICATIONS

SHEET ID:
P-701

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/26/2026 11:35:37 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 11:35:37 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

WATER HEATER SCHEDULE

NOTE:ALL WATER HEATERS SHALL COMPLY FULLY WITH THE 2021 IECC TABLE C404.2, MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	SET POINT	FUEL	EFFICIENCY	STORAGE VOL. (GALLONS)	INPUT (BTUH)	ELEVATION (FEET)	OPERATION WEIGHT (LBS.)	ELECTRICAL					HOT WATER RECOVERY		MIXING VALVE	EXPANSION TANK	REMARKS:
													V	PH	H	A	FLA	RATE (GPH)	Δ T °F			
DWH-1	STATE	SUF100 150NE(A)	MECH ROOM	DOMESTIC HOT WATER	GAS FIRED TANK TYPE	140° F	NATURAL GAS	98%	100	150,000	6300	1,403	120	1	60	5	5	178	90	TMVD-1	EXP-1	SEALED COMBUSTION, INSTALL ON 4" MIN. HOUSEKEEPING PAD. ROUTE FULL SIZED T&P RELIEF VALVE TO NEAREST FLOOR SINK. PROVIDE CONDENSATE NEUTRALIZATION KIT NO. 100112380. COORDINATE SUPPLY INTAKE AND EXHAUST FLUE WITH MECHANICAL.
DWH-2	STATE	SUF100 150NE(A)	MECH ROOM	DOMESTIC HOT WATER	GAS FIRED TANK TYPE	140° F	NATURAL GAS	98%	100	150,000	6300	1,403	120	1	60	5	5	178	90	TMVD-1	EXP-1	SEALED COMBUSTION, INSTALL ON 4" MIN. HOUSEKEEPING PAD. ROUTE FULL SIZED T&P RELIEF VALVE TO NEAREST FLOOR SINK. PROVIDE CONDENSATE NEUTRALIZATION KIT NO. 100112380. COORDINATE SUPPLY INTAKE AND EXHAUST FLUE WITH MECHANICAL.
IWH-1	NAVIEN	NPE-240A2	LOGISTICS 2ND FLOOR	DOMESTIC HOT WATER	GAS FIRED TANKLESS	125°F	NATURAL GAS	95%	-	199,900	6300	77	120	1	60	2	2	5.6 GPM	67	-	EXP-2	TANKLESS, DIGITAL DISPLAY, WALL MOUNTED UNIT, INTEGRAL RECIRCULATION PUMP AND 0.5 GALLON BUFFER TANK.
IWH-2	NAVIEN	NPE-240A2	LOGISTICS 2ND FLOOR	DOMESTIC HOT WATER	GAS FIRED TANKLESS	125°F	NATURAL GAS	95%	-	199,900	6300	77	120	1	60	2	2	5.6 GPM	67	-	EXP-2	TANKLESS, DIGITAL DISPLAY, WALL MOUNTED UNIT, INTEGRAL RECIRCULATION PUMP AND 0.5 GALLON BUFFER TANK.

THERMOSTATIC MIXING VALVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	OUTLET TEMPERATURE (DEGREES °F)	PIPE SIZE INLETS	PIPE SIZE MIXED OUTLET	RETURN PIPE SIZE	SYSTEM FLOW & PRESSURE DROP	*REMARKS:
TMVD-1	LEONARD	MEGATRON NV-150-LF	MECH 123	FIRE STATION	125	1 1/4"	1 1/2"	3/4"	50 GPM @ 5 PSI	DIGITAL TEMPERATURE CONTROL STATION, SELF BALANCING, SELF CLEANING, BMS CAPABLE, INCLUDES TACO 0034E PLUS RECIRCULATING PUMP. RECIRCULATING PUMP MAXIMUM 34 FEET OF HEAD AND 50 GPM. SYSTEM HAS UL LISTED 120V PLUG IN POWER SUPPLY WITH 6 FOOT CORD.

DOMESTIC HOT WATER EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	DESIGN DEGREE (°F)	TANK VOLUME (GAL.)	MAX. TANK ACCEPTANCE (GAL.)	MAX WORKING PRESSURE (PSI)	PRE-CHARGED PRESSURE (PSI)	WEIGHT (LBS.)	REMARK:
EXP-1	AMTROL	ST-30VC-DD	DOMESTIC HOT WATER	140	16.6	11.3	150	55	48	FLOOR MOUNT, 3/4" NPTM, SS CONNECTION, 15" DIAMETER X 25" HEIGHT, 200°F MAXIMUM OPERATING TEMPERATURE, DEEP DRAWN AGITATES INCOMING WATER, ANTI-LEGIONELLA LINER, BUTYL DIAPHRAGM.
EXP-2	AMTROL	ST-5C-DD	DOMESTIC HOT WATER	140	2	0.9	150	55	10	IN-LINE, PIPE MOUNT, 3/4" NPTM, SS CONNECTION, 8" DIAMETER X 14" HEIGHT, 200°F MAXIMUM OPERATING TEMPERATURE, DEEP DRAWN AGITATES INCOMING WATER, ANTI-LEGIONELLA LINER, BUTYL DIAPHRAGM.

INTERCEPTOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	CAPACITY (GAL.)	WEIGHT (LBS.)	DIMENSIONS	REMARKS:
SAND INTERCEPTOR	JENSEN PRECAST	JP-1500-EE-SO	BELOW GRADE	APPRATUS BAYS	PRECAST	1500	17549.94	128.25"x70"x7.2"	PRECAST CONSTRUCTION. PROVIDE RISER TO FINISHED GRADE.

PIPE TYPE INFO

System Abbreviation	System Classification	Schedule/Type	Material
DCW	Domestic Cold Water	L	COPPER
DHW	Domestic Hot Water	L	COPPER
MPG	Hydronic Supply	Schedule 40	ABOVE GRADE: BLACK STEEL PIPE, BELOW GRADE: POLYETHYLENE PLASTIC PIPING
S/O	Sanitary	Schedule 40	ABOVE GRADE: CAST IRON, BELOW GRADE: PVC
SAN	Sanitary	Schedule 40	ABOVE GRADE: CAST IRON, BELOW GRADE: PVC
V	Vent	Schedule 40	ABOVE GRADE: CAST IRON, BELOW GRADE: PVC

MINIMUM PIPE INSULATION THICKNESS (in inches)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (inches)				
	Conductivity Btu × in./(h × ft² × °F)[b]	Mean Rating Temperature, °F	< 1	1 to < 1 1/2	1 1/2 to < 4	4 to < 8	> 8
> 350	0.32–0.34	250	4.5	5.0	5.0	5.0	5.0
251–350	0.29–0.32	200	3.0	4.0	4.5	4.5	4.5
201–250	0.27–0.30	150	2.5	2.5	2.5	3.0	3.0
141–200	0.25–0.29	125	1.5	1.5	2.0	2.0	2.0
105–140	0.21–0.28	100	1.0	1.0	1.5	1.5	1.5
40–60	0.21–0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20–0.26	50	0.5	1.0	1.0	1.0	1.5

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
NATHANIEL ROWE
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
PLUMBING SCHEDULES

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PROJECT STATUS:
Construction Documents

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2ND DHW FIXTURE UNITS
(IPC 2018, Table E103.3(2))

FIXTURE	QUANTITY	DHWFU	TOTAL DHWFU
LAVATORY	2	1.5	3
SINK	1	1	1
SERVICE SINK	1	2.25	2.25
SHOWER	1	1	1
HOSE BIB CW HW	4	9	36
SUPPLY BOX CW HW	1	1.4	1.4
Fixture Unit Totals:			44.65

1ST DHW FIXTURE UNITS
(IPC 2018, Table E103.3(2))

FIXTURE	QUANTITY	DHWFU	TOTAL DHWFU
LAVATORY	6	1.5	9
SINK	1	1	1
SINK - 2 COMP.	1	1	1
SINK - 2 COMP.	1	2.25	2.25
SINK	1	2.25	2.25
SERVICE SINK	1	2.25	2.25
SERVICE SINK	1	2.25	2.25
SHOWER	6	1	6
HOSE BIB CW HW	7	9	63
SUPPLY BOX CW HW	2	1.4	2.8
WASHER ROUGH-IN BOX	3	1	3
WASHER ROUGH-IN BOX	1	3	3
Fixture Unit Totals:			97.8

2ND DHW PIPE SIZE
(IPC @ 4 FPS, Table E103.3(3))

TOTAL DHWFU	GPM	PIPE SIZE (INCH)
44.65	27.7	1.5

1ST DHW PIPE SIZE @ 4FPS
(IPC 2018, Table E103.3(3))

TOTAL DHWFU	GPM	PIPE SIZE (INCH)
97.8	43.5	2

NATURAL GAS SIZING CRITERIA

TOTAL LENGTH = 400 FEET X 1.3 (FOR MISC. FITTINGS) = "TDL"
TOTAL DEVELOPED LENGTH (TDL) = 620 FEET

PIPING SIZED PER CHAPTER 4 OF THE 2018 INTERNATIONAL FUEL GAS CODE

SITE SERVICE PRESSURE = 2 PSI

LINE PRESSURE LEAVING REGULATOR AT BUILDING METER = 2 PSI

TYPICAL GAS PRESSURE LEAVING EQUIPMENT/APPLIANCE REGULATOR = 11 "wc

NATURAL GAS DEMAND LOAD

Note: For HVAC Equipment Gas, 1 MBH = 1 CFH (Coordinate with HVAC Schedules).
Only Water Heaters & Kitchen Equipment Derated for Site Elevation shown below.

SYMBOL*	INPUT BTU/H	INPUT MBH	ELEVATION	MBH per CFH	CFH
B-1	399,000	399	0	1	399
B-2	399,000	399	0	1	399
DHW-1	150,000	150	6,300	0.748	201
DHW-2	150,000	150	6,300	0.748	201
ERV-2	1,125,000	1,125	0	1	1,125
F-1	40,000	40	0	1	40
GRILL	100,000	100	6,300	0.748	134
GUH-1	75,000	75	0	1	75
GUH-2	75,000	75	0	1	75
GUH-3	75,000	75	0	1	75
GUH-4	75,000	75	0	1	75
GUH-5	75,000	75	0	1	75
GUH-6	75,000	75	0	1	75
GUH-7	75,000	75	0	1	75
GUH-8	75,000	75	0	1	75
GUH-9	75,000	75	0	1	75
GUH-10	75,000	75	0	1	75
IWH-1	199,900	200	6,300	0.748	267
IWH-2	199,900	200	6,300	0.748	267
MAU-1	80,000	80	0	1	80
MAU-2	544,000	544	0	1	544
RAD-1	125,000	125	0	1	125
RAD-2	125,000	125	0	1	125
RAD-3	125,000	125	0	1	125
RAD-4	125,000	125	0	1	125
RANGE-1	112,000	112	6,300	0.748	150
RANGE-2	112,000	112	6,300	0.748	150
RTU-1	120,000	120	0	1	120
RTU-2	80,000	80	0	1	80
TOTALS:	5,060,800	5,061			5,406

ENTIRE BUILDING FIXTURE UNITS
(2018 IPC, SECTION 709 and Table E103.3(2))

Note: SEE SEPARATE SANITARY EXITS, DOMESTIC COLD WATER ENTRY AND HOT WATER DEMAND SCHEDULE IF BUILDING REQUIRES SEPARATE EXITS, ENTRIES OR DEMANDS

FIXTURE	QUANTITY	SANITARY DFU	SANITARY TOTAL DFU	DOMESTIC COLD WATER DCWFU	DOMESTIC COLD WATER TOTAL DCWFU	TOTAL WATER SUPPLY WSFU	TOTAL WATER SUPPLY TOTAL WSFU	DOMESTIC HOT WATER DHWFU	DOMESTIC HOT WATER TOTAL DHWFU
WATER CLOSET - TANK TYPE	8	4	32	5	40	5	40	0	0
LAVATORY	8	1	8	1.5	12	2	16	1.5	12
SINK	1	1	1	1	1	1.4	1.4	1	1
SINK - 2 COMP.	1	1	1	1	1	1.4	1.4	1	1
SINK - 2 COMP.	1	1	1	2.25	2.25	3	3	2.25	2.25
SINK	1	2	2	2.25	2.25	3	3	2.25	2.25
SINK	1	1	1	1	1	1.4	1.4	1	1
SERVICE SINK	2	2	4	2.25	4.5	3	6	2.25	4.5
SERVICE SINK	1	2	2	2.25	2.25	3	3	2.25	2.25
ELECTRIC WATER COOLER/DF	2	1	1	0.25	0.5	0.25	0.5	0	0
SHOWER	7	0	0	1	7	1.4	9.8	1	7
HOSE BIB CW HW	11	0	0	9	99	10	110	9	99
WALL HYDRANT	6	0	0	2.5	15	2.5	15	0	0
SUPPLY BOX	8	0	0	0.5	4	0.5	4	0	0
SUPPLY BOX CW HW	3	0	0	1.4	4.2	1.4	4.2	1.4	4.2
WASHER ROUGH-IN BOX	3	2	6	1	3	1.4	4.2	1	3
WASHER ROUGH-IN BOX	1	3	3	3	3	4	4	3	3
FLOOR SINK (2" TRAP)	4	1	2	0	0	0	0	0	0
FLOOR SINK (3" TRAP)	1	6	6	0	0	0	0	0	0
FLOOR SINK (4" TRAP)	1	1	1	0	0	0	0	0	0
FLOOR DRAIN (2" TRAP)	13	2	26	0	0	0	0	0	0
FLOOR DRAIN (3" TRAP)	6	2	12	0	0	0	0	0	0
FLOOR DRAIN (4" TRAP)	2	2	4	0	0	0	0	0	0
TRENCH DRAN (4" TRAP)	7	6	42	0	0	0	0	0	0
Fixture Unit Totals:			154		201.95		226.9		142.45

ENTIRE DCW FLUSH TANK DEMAND @ 4 FPS
(IPC 2018, Table E103.3(3))

TOTAL DCWFU	DCWFU TO (GPM)	DCW PIPE SIZE (INCH)	WSFU TOTAL	WSFU TO (GPM)	ENTRY PIPE SIZE (INCH)
201.95	70	2.5	226.9	75	2.5

SANITARY EXIT 1 - FIXTURE UNITS
(IPC 2018 SECTION 709)

FIXTURE	QUANTITY	SANITARY DFU	SANITARY TOTAL DFU
WATER CLOSET - TANK TYPE	8	4	32
LAVATORY	8	1	8
SINK	1	1	1
SINK - 2 COMP.	1	1	1
SINK - 2 COMP.	1	1	1
SINK	1	2	2
SINK	1	1	1
SERVICE SINK	2	2	4
SERVICE SINK	1	2	2
ELECTRIC WATER COOLER/DF	2	1	1
SHOWER	1	0	0
WASHER ROUGH-IN BOX	3	2	6
WASHER ROUGH-IN BOX	1	3	3
FLOOR SINK (2" TRAP)	4	1	2
FLOOR SINK (4" TRAP)	1	1	1
FLOOR DRAIN (2" TRAP)	13	2	26
FLOOR DRAIN (3" TRAP)	6	2	12
FLOOR DRAIN (4" TRAP)	2	2	4
TRENCH DRAN (4" TRAP)	7	6	42
Fixture Unit Totals:			148

SANITARY EXIT 1 - PIPE SIZE
(IPC Table 710.1(1))

TOTAL DFU	PIPE SIZE @ 1/8" SLOPE (INCH)
148	4

8 0 8 16
SCALE: 1/8" = 1'-0"

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COLORADO LICENSED
NATHANIEL ROWE
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
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MECHANICAL SYMBOL LEGEND

NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
BHP	BRAKE HORSEPOWER
BTUH	BTU PER HOUR
BTU	BRITISH THERMAL UNIT
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUATION
D	DRAIN
DX	DIRECT EXPANSION
ENT	ENTERING
EXH	EXHAUST
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
°F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F.G.	FILTER GUAGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FLAT TOP
FT.	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER (QUANTITY)
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
QTY	QUANTITY
QUAD	QUADRANT
R.A.	RETURN AIR
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SCD	SMOKE CONTROL DAMPER
SDVV	SINGLE DUCT VARIABLE VOLUME
SP	STATIC PRESSURE (INCHES OF WATER)
ST	SOUND TRAP
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VTR	VENT THRU ROOF
TOPT	TOP OF PIPE TRAPEZE
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP.	TYPICAL

PIPING SYSTEMS

- D — DRAIN
- V — VENT
- RS — REFRIGERATION SUCTION
- RL — REFRIGERATION LIQUID
- R — REFRIGERATION
- DOWN — DIRECTION PITCH
- DIRECTION OF FLOW
- EXISTING
- DEMO

DUCTWORK SYMBOLS

- FLEXIBLE DUCT
- ACOUSTICAL DUCT LINING
- MANUAL BALANCING DAMPER (HD)
- FIRE DAMPER (FRD)
- SMOKE DAMPER (SMD)
- COMBINATION FIRE/SMOKE DAMPER (FSD)
- CONNECT NEW DUCT TO EXISTING DUCT
- EXISTING DUCT TO BE REMOVED
- POINT OF DISCONNECT
- FLEXIBLE CONNECTION
- RISE IN DUCT
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EXCEPT TRANSFER AIR SOUND ELBOW)
- SHORT RADIUS ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EXCEPT TRANSFER AIR SOUND ELBOW)
- STANDARD LONG RADIUS ELBOW
- DN / UP — SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- CEILING SUPPLY AIR DIFFUSERS
- CEILING EXHAUST REGISTER
- CEILING RETURN AIR REGISTER OR GRILLE
- SIDEWALL EXHAUST OR RETURN AIR GRILLE OR REGISTER
- SIDEWALL SUPPLY REGISTER
- DUCT TRANSITION
- 24"x12" — INDICATES A 24"x12" RECTANGULAR DUCT (WIDTH x DEPTH)
- 12"Ø — INDICATES A 12" ROUND DUCT
- 24"/12" — INDICATES A 24"x12" FLAT OVAL DUCT (WIDTH x DEPTH)
- SD — DUCT MOUNTED SMOKE DETECTOR
- DUCT MOUNTED STATIC PRESSURE PROBE
- ACCESS DOOR
- T — ROOM THERMOSTAT/TEMP. TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- H — ROOM HUMIDISTAT/HUMIDITY TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- CO2 — ROOM CARBON DIOXIDE TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE

VALVE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- 3-WAY MODULATING CONTROL VALVE
- 2-WAY CONTROL VALVE
- SAFETY VALVE OR PRESSURE RELIEF VALVE
- SOLENOID VALVE
- 3/4" BALL VALVE WITH ADAPTER TO 3/4" HOSE THREAD
- DIAPHRAGM VALVE
- BUTTERFLY VALVE
- BALL VALVE
- VALVE IN RISE
- WATER FLOW MEASURING DEVICE
- CIRCUIT SETTER

FITTING SYMBOLS

- ELBOW - DOWN
- ELBOW - UP
- PIPE RISE-DROP
- ELBOW - DROP TO TEE
- TEE - DROP FROM TEE
- END CAP
- FLEX CONNECTION
- PIPE REDUCER - CONCENTRIC
- PIPE REDUCER - ECCENTRIC
- PIPE STRAINER
- UNION - SCREWED
- AIR VENT - AUTOMATIC
- AIR VENT - MANUAL
- GAUGE - DIFFERENTIAL
- GAUGE - PRESSURE
- GAUGE - PRESSURE WITH COCK
- GAUGE - TEMPERATURE
- PIPE ANCHOR
- PIPE EXPANSION JOINT
- PIPE GUIDE
- SENSOR - FLOW
- SWITCH - FLOW
- SWITCH HUMIDITY
- SWITCH - PRESSURE
- SWITCH - TEMPERATURE
- TEMPERATURE - PRESSURE TEST FITTING
- THERMOMETER
- THERMOMETER WELL
- BASKET STRAINER
- STEAM TRAP INVERTED BUCKET
- METER - TOTALIZING BTU
- METER - TOTALIZING FLOW

VIEW SYMBOLS

- SECTION LOCATION — A1
- DRAWING NUMBER WHERE DETAILED — M301
- DETAIL LOCATION — X#/X###
- DRAWING NUMBER WHERE DETAILED
- DETAIL NUMBER LOCATION — A1 DETAIL SCALE

EQUIPMENT SYMBOLS

- LETTERS REFER TO THE EQUIPMENT TYPE
- XX-## — NUMBERS REFER TO SPECIFIC EQUIPMENT
- SYMBOL INDICATES EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE
- ##x## — SIDEWALL GRILLE DIMENSION WHERE SHOWN ON PLANS
- XX-# — SYMBOL INDICATES GRILLE OR DIFFUSER IDENTIFIED IN EQUIPMENT SCHEDULE
- ### — CFM

GENERAL NOTES

A. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.

B. PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. THEY SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATION. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.

C. WATER PIPE CONNECTIONS TO WATER COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.

D. COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).

E. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.

F. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. PROVIDE 1.5" ACOUSTICAL LINING (TYPE D3 INSULATION) IN LOW VELOCITY RECTANGULAR DUCTWORK AS INDICATED ON DRAWINGS. FOR THE REMAINDER OF THIS DUCTWORK PROVIDE AS INDICATED IN THE INSULATION SPECIFICATIONS.

G. PROVIDE 1/2" MANUAL AIR VENTS AT ALL HIGH POINTS OF CLOSED SYSTEM PIPING AND 1/2" MANUAL DRAIN VALVES WITH HOSE CONNECTION AT LOW POINTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM DRAINAGE. WHERE DRAIN VALVES OCCUR ABOVE CEILING AREAS AND IN AREAS OUTSIDE MECHANICAL RANGE PROVIDE HOSE CONNECTION ON VALVE.

H. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS.

I. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.

J. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.

K. CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.

L. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC., AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT, WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.

M. CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 350 FPM (UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS) TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY NOTE "I".

N. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.

O. MECHANICAL ITEMS SUCH AS ROOF DRAINS, FLOOR DRAINS, PLUMBING FIXTURES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS BUT NOT SHOWN ON THE MECHANICAL DRAWINGS SHALL BE INCLUDED IN THE PROJECT. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR INCLUSION IN ADDENDUM.

P. PROVIDE (1) COPY OF TEST AND BALANCE REPORT TO THE MECHANICAL INSPECTOR AT THE TIME OF FINAL INSPECTION OF MECHANICAL WORK. REFER TO SPECIFICATION SECTION 23 0593 FOR TEST AND BALANCE REQUIREMENTS.

Q. CONTRACTOR SHALL PROVIDE DUCT MATERIALS PER SMACNA STANDARDS. REFER TO SPEC 23 0500.

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	GRC
PROJECT NUMBER:	206110040 00

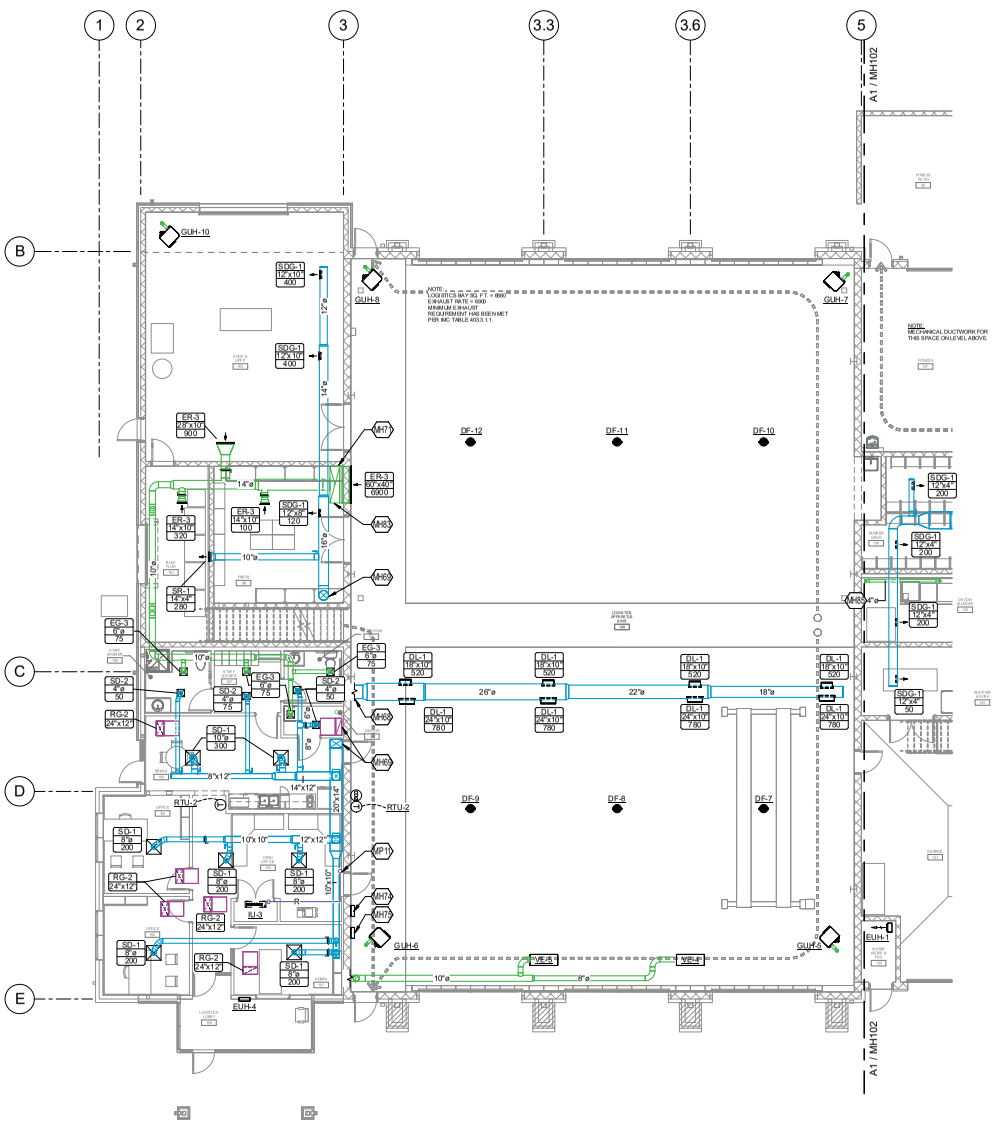
SEAL:
COLORADO LICENSED
MICHAEL R. JONES
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL LEGEND

SHEET ID:
M-001

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/29/2026 4:18:08 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



PN

N

A1 HVAC 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM VENTILATION INTAKE OPENINGS AND SOURCES OF CONTAMINANTS (EXHAUST FANS, PLUMBING VENTS, ETC.) IN ACCORDANCE WITH IMC REQUIREMENTS.

B. THE FIRST 2.5' OF SUPPLY AND RETURN DUCTWORK FROM ALL AHU'S SHALL BE LINED WITH 1-1/2" ACOUSTICAL LINER.

C. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS.

D. ALL ROUND DUCT SHALL BE SPIRAL TYPE, NO ADJUSTABLE FITTINGS OR ELBOWS, PRIMED FOR PAINTING UNLESS INDICATED DIFFERENTLY. PROVIDE DUCT COLLAR AROUND ALL EXPOSED DUCT WALL PENETRATIONS IN FINISHED AREAS.

E. ALL PENETRATIONS IN FULL HEIGHT PARTITION WALLS SHALL BE PACKED WITH FIBERGLASS AND SEALED AIRTIGHT WITH NON-HARDENING SEALANT.

F. PROVIDE LOCKABLE CLEAR PLASTIC COVERS FOR ALL THERMOSTATS AND CO2 SENSORS IN COMMON AREAS.

G. ALL EXPANSION TANKS, STORAGE TANKS, AND MECHANICAL EQUIPMENT ON HOUSEKEEPING PADS SHALL BE SECURED TO MOUNTING PADS.

KEYNOTES

MH68 SEE MH121 FOR DUCT CONTINUATION
MH69 DUCT UP TO LEVEL ABOVE. SEE MH103 FOR CONTINUATION.
MH71 EXHAUST DUCT UP TO LEVEL ABOVE. SEE MH103 FOR CONTINUATION.
MH74 DESTRATIFICATION FAN CONTROL PANEL.
MH75 VEHICLE EXHAUST EXTRACTION CONTROL PANEL.
MH83 PROVIDE BALANCING DAMPER.
MH85 ROUTE 4" DRYER EXHAUST VENT UP ALONG WALL AND THROUGH ROOF. TERMINATE WITH GOOSENECK 18 INCHES ABOVE ROOF.
MP11 REFRIGERANT PIPING UP TO LEVEL ABOVE. SEE MH103 FOR CONTINUATION.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	GRC
PROJECT NUMBER:	20611004000

SEAL:

COLORADO LICENSED
NATHAN E. NORRIS
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
HVAC SECTOR PLANS - LOGISTICS

SHEET ID:
MH101

PROJECT STATUS:
Construction Documents

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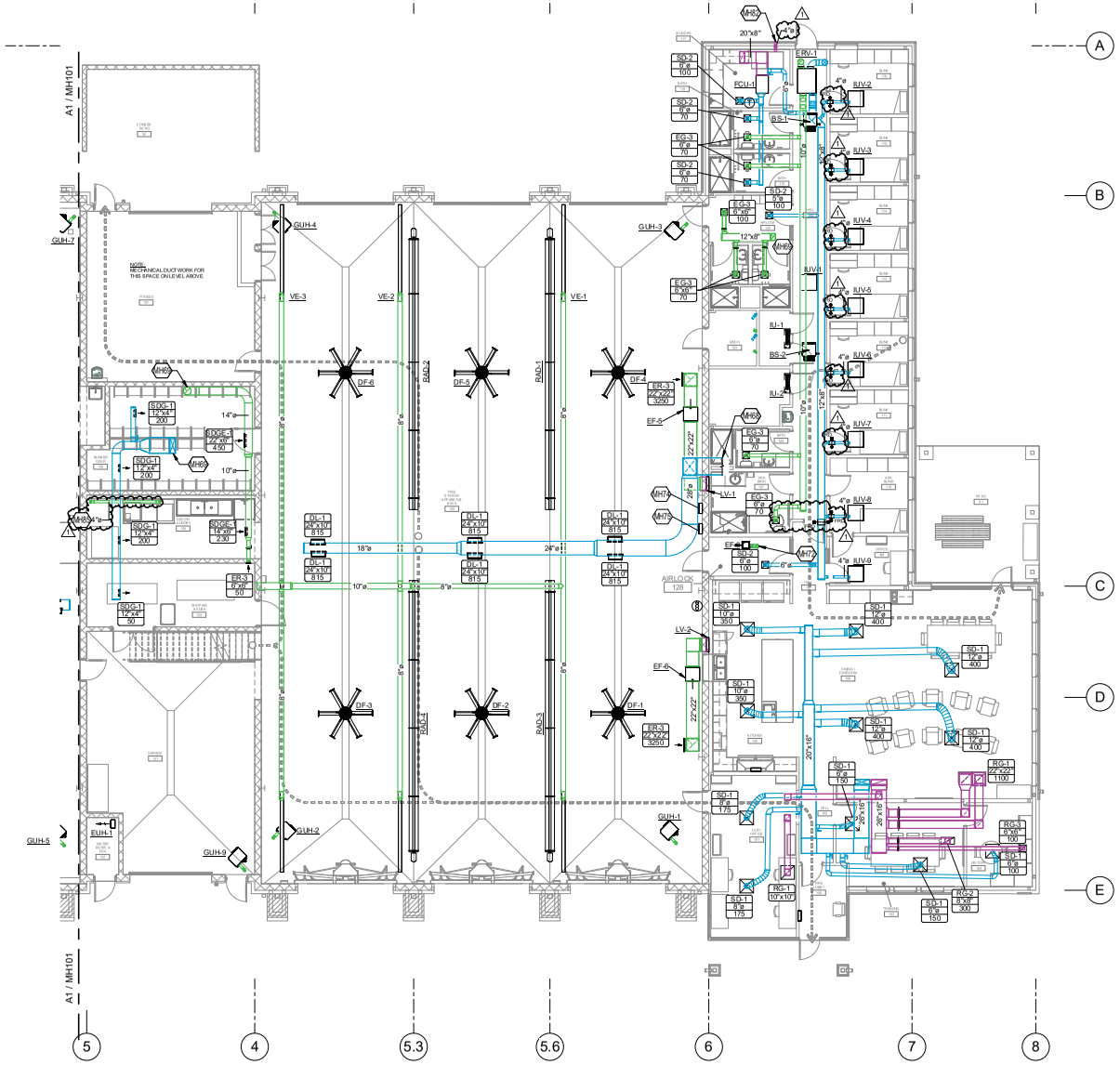

A1 HVAC 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM VENTILATION INTAKE OPENINGS AND SOURCES OF CONTAMINANTS (EXHAUST FANS, PLUMBING VENTS, ETC.) IN ACCORDANCE WITH IMC REQUIREMENTS.

B. THE FIRST 2.5' OF SUPPLY AND RETURN DUCTWORK FROM ALL AHU'S SHALL BE LINED WITH 1-1/2" ACOUSTICAL LINER.

C. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS.

D. ALL ROUND DUCT SHALL BE SPIRAL TYPE, NO ADJUSTABLE FITTINGS OR ELBOWS, PRIMED FOR PAINTING UNLESS INDICATED DIFFERENTLY. PROVIDE DUCT COLLAR AROUND ALL EXPOSED DUCT WALL PENETRATIONS IN FINISHED AREAS.

E. UTILIZE HIGH EFFICIENCY 45 DEGREE TAKEOFFS ON ALL MEDIUM VELOCITY BRANCH CONNECTIONS TO MAIN SUPPLY DUCT.

F. ALL PENETRATIONS IN FULL HEIGHT PARTITION WALLS SHALL BE PACKED WITH FIBERGLASS AND SEALED AIRTIGHT WITH NON-HARDENING SEALANT.

G. PROVIDE LOCKABLE CLEAR PLASTIC COVERS FOR ALL THERMOSTATS AND CO2 SENSORS IN COMMON AREAS.

H. ALL EXPANSION TANKS, STORAGE TANKS, AND MECHANICAL EQUIPMENT ON HOUSEKEEPING PADS SHALL BE SECURED TO MOUNTING PADS.

KEYNOTES

MH68 SEE MH121 FOR DUCT CONTINUATION
MH69 DUCT UP TO LEVEL ABOVE. SEE MH103 FOR CONTINUATION
MH72 DUCTWORK UP THROUGH ROOF. SEE MH121 FOR CONTINUATION
MH74 DESTRATIFICATION FAN CONTROL PANEL.
MH75 VEHICLE EXHAUST EXTRACTION CONTROL PANEL.
MH82 PROVIDE WEATHERCAP FOR DRYER VENT DUCT.
MH85 ROUTE 4" DRYER EXHAUST VENT UP ALONG WALL AND THROUGH ROOF. TERMINATE WITH GOOSENECK 18 INCHES ABOVE ROOF.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
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DRAWN BY:	NCW
DESIGNED BY:	GRC
PROJECT NUMBER:	20611004000

SEAL:

COLORADO LICENSED
MATTHEW E. BONDER
PE 0060923
REGISTERED
PROFESSIONAL ENGINEER

SHEET TITLE:
HVAC SECTOR PLANS - FIRE STATION

SHEET ID:
MH102

PROJECT STATUS:
Construction Documents

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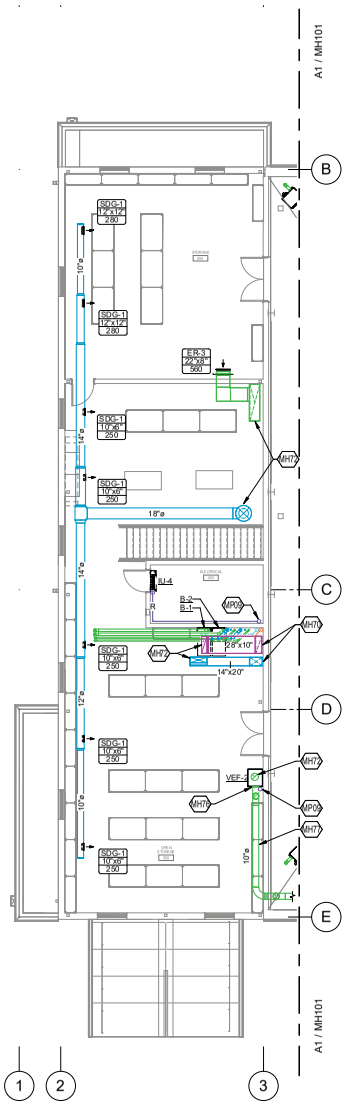
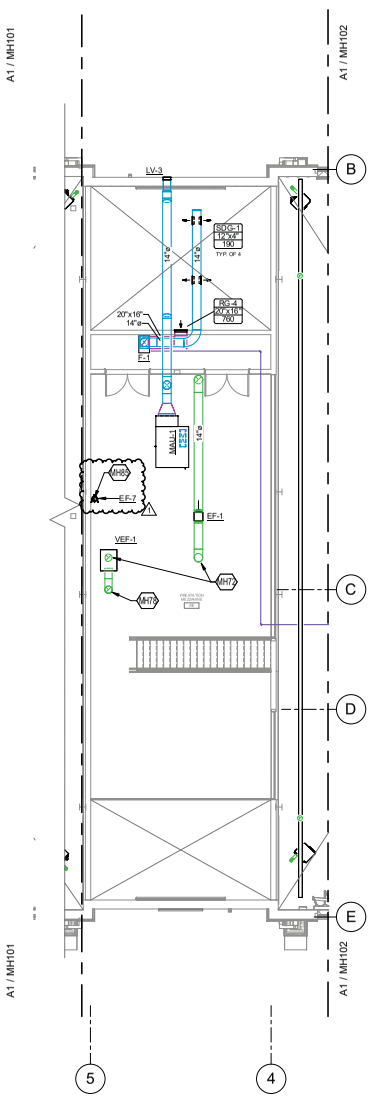


HVAC 2ND FLOOR PLAN - LOGISTICS MEZZANINE

2 SCALE: 1/8" = 1'-0"



HVAC 2ND FLOOR PLAN - FIRE STATION MEZZANINE

1 SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM VENTILATION INTAKE OPENINGS AND SOURCES OF CONTAMINANTS (EXHAUST FANS, PLUMBING VENTS, ETC.) IN ACCORDANCE WITH IMC REQUIREMENTS.

B. THE FIRST 25' OF SUPPLY AND RETURN DUCTWORK FROM ALL AHU'S SHALL BE LINED WITH 1-1/2" ACOUSTICAL LINER.

C. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS.

D. ALL ROUND DUCT SHALL BE SPIRAL TYPE, NO ADJUSTABLE FITTINGS OR ELBOWS, PRIMED FOR PAINTING UNLESS INDICATED DIFFERENTLY. PROVIDE DUCT COLLAR AROUND ALL EXPOSED DUCT WALL PENETRATIONS IN FINISHED AREAS.

E. UTILIZE HIGH EFFICIENCY 45 DEGREE TAKEOFFS ON ALL MEDIUM VELOCITY BRANCH CONNECTIONS TO MAIN SUPPLY DUCT.

F. ALL PENETRATIONS IN FULL HEIGHT PARTITION WALLS SHALL BE PACKED WITH FIBERGLASS AND SEALED AIRTIGHT WITH NON-HARDENING SEALANT.

G. PROVIDE LOCKABLE CLEAR PLASTIC COVERS FOR ALL THERMOSTATS AND CO2 SENSORS IN COMMON AREAS.

H. ALL EXPANSION TANKS, STORAGE TANKS, AND MECHANICAL EQUIPMENT ON HOUSEKEEPING PADS SHALL BE SECURED TO MOUNTING PADS.

KEYNOTES

MH70 SUPPLY AND RETURN DUCT DOWN TO LEVEL BELOW. SEE MH101 FOR CONTINUATION
MH72 DUCTWORK UP THROUGH ROOF. SEE MH121 FOR CONTINUATION
MH76 EXHAUST DUCT DOWN INTO FAN.
MH77 ROUTE EXHAUST DUCT AS HIGH AS POSSIBLE.
MH78 EXHAUST DUCT DOWN TO LEVEL BELOW. SEE MH102 FOR CONTINUATION
MH80 ROUTE 4" DRYER EXHAUST VENT UP ALONG WALL AND THROUGH ROOF. TERMINATE WITH GOOSENECK 18 INCHES ABOVE ROOF.
MP00 REFRIGERANT PIPING UP THROUGH ROOF TO OUTDOOR UNIT. SEE MH121 FOR CONTINUATION.

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
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DRAWN BY:	NCAV
DESIGNED BY:	GRC

PROJECT NUMBER:
20611004000

SEAL:
COLORADO LICENSED
NATHAN E. NORDYKE
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
HVAC SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET ID:
MH103

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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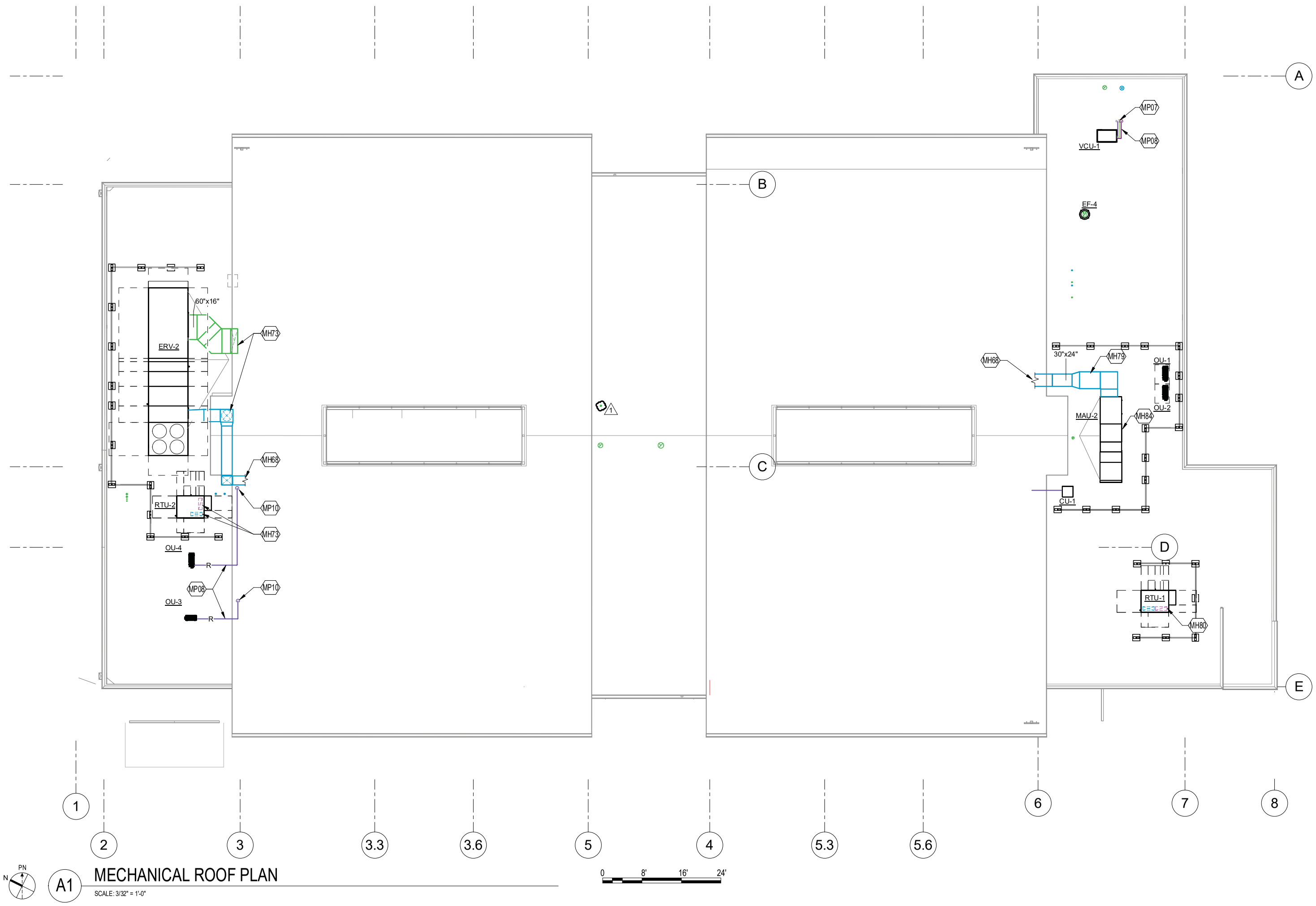

A1 MECHANICAL ROOF PLAN

SCALE: 3/32" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM VENTILATION INTAKE OPENINGS AND SOURCES OF CONTAMINANTS (EXHAUST FANS, PLUMBING VENTS, ETC.) IN ACCORDANCE WITH IMC REQUIREMENTS.

KEYNOTES

MH68	SEE MH121 FOR DUCT CONTINUATION
MH73	DUCTWORK DOWN THROUGH ROOF TO LEVEL BELOW. SEE MH103 FOR CONTINUATION.
MH79	INSULATE AND JACKET ALL EXTERIOR DUCTWORK PER SPECIFICATION 23 0900. SEE EXTERIOR DUCTWORK DETAIL.
MH80	PROVIDE DUCTWORK TRANSITIONS INSIDE CURB TO AVOID CONFLICTS BETWEEN DUCTWORK AND STRUCTURAL ELEMENTS.
MH84	PROVIDE MAU-2 WITH SPRING VIBRATION ISOLATORS. SEE A4/M-504 FOR MORE DETAILS.
MP07	REFRIGERANT PIPE DOWN THROUGH ROOF TO LEVEL BELOW. SEE MP102 FOR CONTINUATION.
MP08	ALL EXTERIOR REFRIGERANT PIPE SHALL BE INSULATED AND JACKETED WITH UV-RESISTANT ALUMINUM JACKET SUITABLE FOR ECTERIOR EXPOSURE.
MP10	REFRIGERANT PIPING DOWN TO LEVEL BELOW. SEE MH103 FOR CONTINUATION.

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN: A B C D

REVISIONS

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DRAWN BY:	NCAV
DESIGNED BY:	GRC
PROJECT NUMBER:	20611004000

SEAL: COLORADO LICENSED NATHANAEL NORRIS PE 0060923 PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL OVERALL ROOF PLAN

SHEET ID:
MH121

PROJECT STATUS:
Construction Documents

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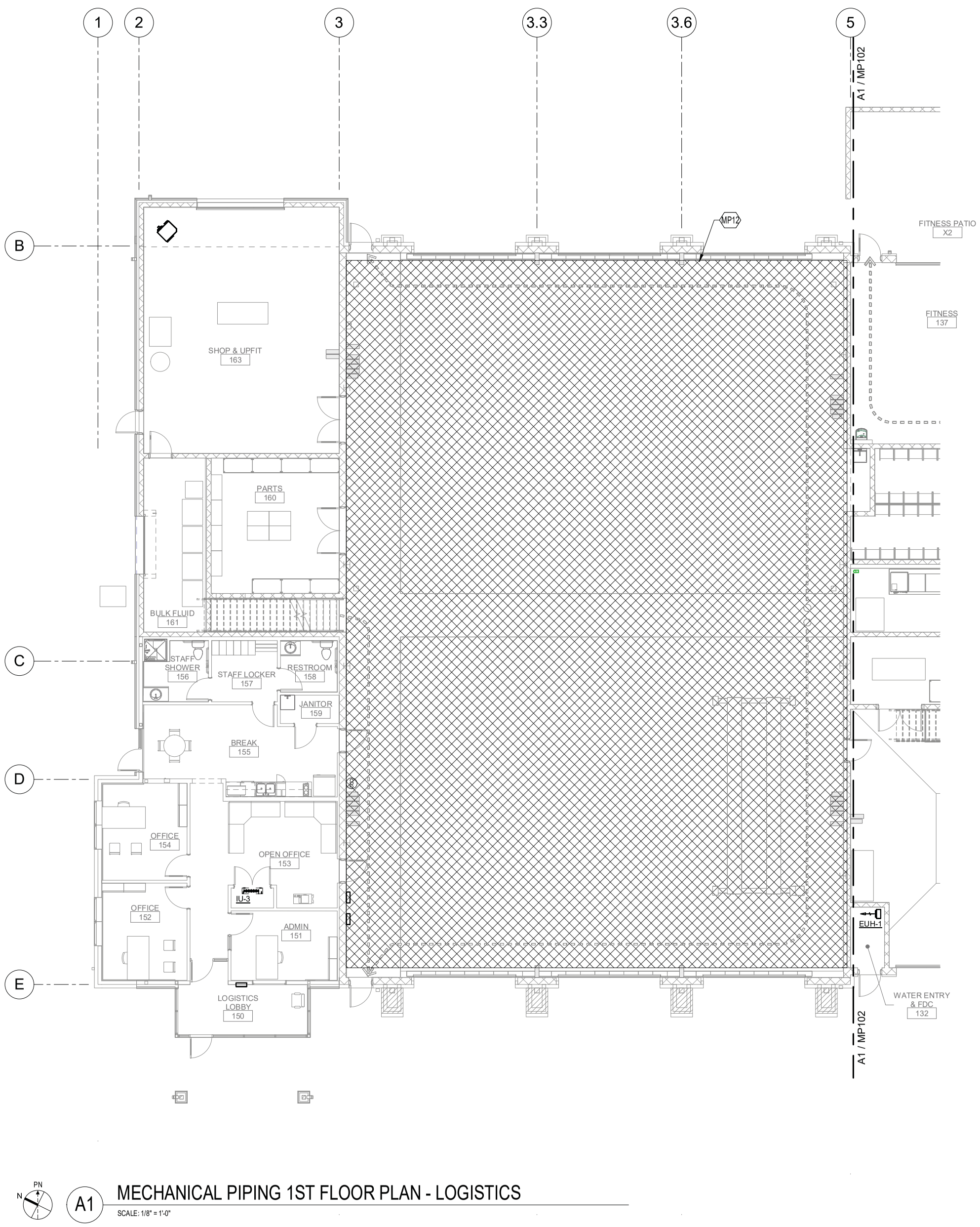

A1 MECHANICAL PIPING 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN ADEQUATE CLEARANCE FOR CONTROL PANEL ACCESS AND COIL/VALVE ACCESS.

B. ALL PIPES TO BE VENTED AT HIGH POINTS.

C. DRAIN ALL LOW POINTS OF PIPING.

D. REFER TO PIPING MANUFACTURER INSTALLATION MANUALS FOR GUIDELINES ON HANGER/GUIDE SPACING BETWEEN PIPING ANCHOR POINTS.

KEYNOTES

MP12 NEW RADIANT MANIFOLD WITH 3 HEATING ZONES. PROVIDE 100 BTUH/FT2 WORTH OF HEAT TO PROVIDE 80° SURFACE TEMPERATURE AT ALL 3 ZONES IN APPARATUS BAY. INSTALL RADIANT PEX TUBING IN SLAB AT 12" SPACING.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

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DRAWN BY:	NCAV
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PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED NATHANAEL NORRIS PE 0060923 PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL PIPING SECTOR PLANS - LOGISTICS

SHEET ID:
MP101

PROJECT STATUS:
Construction Documents

A1 MECHANICAL PIPING 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN ADEQUATE CLEARANCE FOR CONTROL PANEL ACCESS AND COIL/VALVE ACCESS.

B. ALL PIPES TO BE VENTED AT HIGH POINTS.

C. DRAIN ALL LOW POINTS OF PIPING.

D. REFER TO PIPING MANUFACTURER INSTALLATION MANUALS FOR GUIDELINES ON HANGER/GUIDE SPACING BETWEEN PIPING ANCHOR POINTS.

KEYNOTES

MP09 REFRIGERANT PIPING UP THROUGH ROOF TO OUTDOOR UNIT. SEE MH121 FOR CONTINUATION.

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

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DESIGNED BY:	GRC
PROJECT NUMBER:	20611004000

SEAL:

COLORADO LICENSED
NATHANIEL J. NUNEZ
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL PIPING SECTOR PLANS - FIRE STATION

SHEET ID:
MP102

PROJECT STATUS:
Construction Documents

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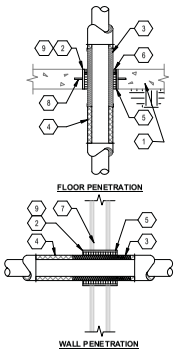
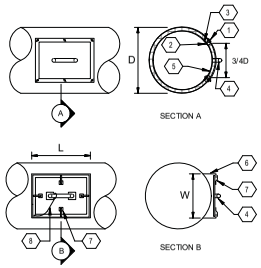


KEYNOTES

1. FLOOR STRUCTURE, SEE ARCH. DRAWINGS FOR RATING
2. PIPE SLEEVES, SEE SPECIFICATIONS. PROVIDE WATERSTOP FOR BELOW GRADE PENETRATIONS
3. ROCKWOOL OR APPROVED FIRE SAVING PIPE INSULATION THRU PENETRATION, MIN. 6" BOTH SIDES OF WALL OR FLOOR (FOR INSULATED PIPING ONLY)
4. PIPE INSULATION (WHERE REQUIRED)
5. U.L. LISTED SILICONE FOAM OR OTHER FIRE SAFE MATERIAL BETWEEN PIPE AND PIPE SLEEVES OR PIPE SLEEVE AND ROCKWOOL INSULATION FOR INSULATED PIPING
6. IF SILICONE FOAM IS NOT USED AS FIRE SAFING MATERIAL, SEAL WATER-PROOF WITH SILICONE SEALANT
7. PARTITION OR WALL, SEE ARCH. DWGS FOR RATING
8. ANCHOR ONE PIPE DIAMETER LONG 90° APART
9. PIPE SLEEVES NOT REQUIRED IN GYP-BOARD WALLS

A2 PIPE PENETRATION THRU FIRE RATED BARRIER

SCALE = NONE

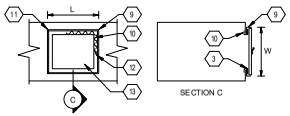


KEYNOTES

1. BOLT AND WING NUT AT MAX. 3" O.C.
2. TACK WELD BOLT TO DUCT
3. PROVIDE GASKET BETWEEN DUCT AND ACCESS DOOR
4. HANDLE
5. INSULATE COVER AS REQUIRED BY DUCT INSULATION SPEC.
6. MIN. 20 GA FRAME WELDED TO DUCT
7. PRESSURE SENSITIVE LATCH FOR VACUUM RELEASE
8. RETAINER CHAIN
9. MIN. 22 GA GALV. STEEL FRAME
10. FRAME SECURED TO DUCT WITH 5/8" NOTCHED KNOCK-OVER EDGES ON ALL SIDES
11. CONTINUOUS HINGE
12. CAM LATCH
13. MIN. 22 GA DOOR

W X L	ROUND DUCT DIAMETER	FLAT OVAL DUCT	
		MAJOR AXIS WHEN MOUNTED ON MAJOR AXIS	MINOR AXIS WHEN MOUNTED ON MAJOR AXIS
8" X 12"	8" - 12"	8" - 16"	8" - 11"
12" X 12"	13" X 18"	17" - 24"	12" - 13"
14" X 20"	19" +	25" +	14" +

ROUND OR FLAT OVAL DUCT, 8" +



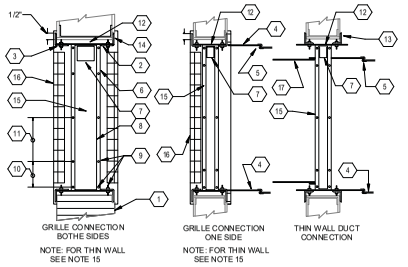
DUCT DIMENSION ON WHICH ACCESS DOOR IS PLACED	OUTSIDE FRAME W X L
6" - 8"	5" X 12"
9" - 12"	8" X 8"
13" - 15"	12" X 12"
16" - 33"	14" X 14"
34" - 66"	(2) 14" X 14"
67" +	(3) 14" X 14"

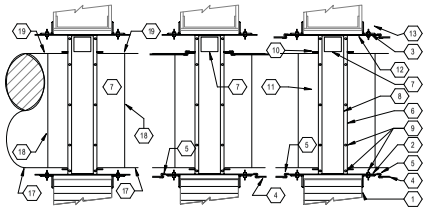
RECTANGULAR DUCTS

NOTE:
DUCT ACCESS DOORS SHALL BE PROVIDED AT EACH FIRE DAMPER, SMOKE DAMPER, COMBINATION FIRE/SMOKE DAMPER AND DUCT MOUNTED EQUIPMENT, AS REQUIRED FOR DUCT CLEANING AND INSPECTION

A3 DUCT ACCESS DOOR DETAIL

SCALE = NONE





KEYNOTES

1. WALL (OR FLOOR)
2. SLEEVE - SEE INSTALLATION NOTES
3. MOUNTING ANGLES CONTINUOUS AROUND SLEEVE WITH WELDED JOINTS
4. SQUARE OR RECTANGULAR DUCT
5. BREAKAWAY DUCT CONNECTION
6. FIRE DAMPER FRAME
7. FIRE DAMPER CURTAIN TYPE SQUARE OF RECTANGULAR
8. CURTAIN TRACT
9. BOLT, SCREW, RIVET, OR TACK WELDED CONNECTION
10. CORNER SPACING PER MANUFACTURE'S INSTALLATION INSTRUCTION
11. INTERMEDIATE SPACING PER MANUFACTURE'S INSTALLATION INSTRUCTION
12. 1/8" PER LINEAR FOOT BOTH DIMENSIONS, AND 1/4" MINIMUM
13. PROVIDE MINIMUM OVERLAP OF STRUCTURAL OPENING PER MANUFACTURE'S INSTALLATION INSTRUCTIONS
14. ALTERNATE MOUNTING ANGLE METHOD AS REQUIRED BY GRILLE
15. MAXIMUM WIDTH 1-7/8" RUSKIN MODEL IBDT OR APPROVED EQUAL
16. GRILLE OR REGISTER WITH A MIN. 1/2" OVERLAP. GRILLE OR REGISTER SHALL BE STEEL MINIMUM 26 GAGE FRAME THICKNESS AND SHALL NOT BE ATTACHED DIRECTLY TO WALL
17. ROUND OR OVAL DUCT
18. ROUND OR OVAL DUCT COLLAR FURNISHED WITH RECTANGULAR DAMPER ASSEMBLY
19. ROUND OR OVAL DUCT BREAKAWAY CONNECTION WITH EITHER DRAWBAND OR SHEET METAL SCREWS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

A1 FIRE DAMPER DETAIL - CURTAIN TYPE

SCALE = NONE

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	GRC
PROJECT NUMBER:	206110040000

SEAL:

COLORADO LICENSED
NATHANIEL J. NUNEZ
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M-501

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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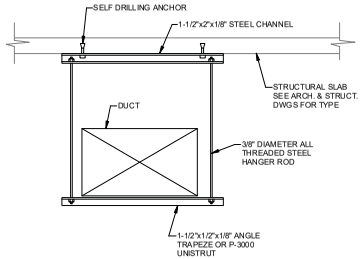
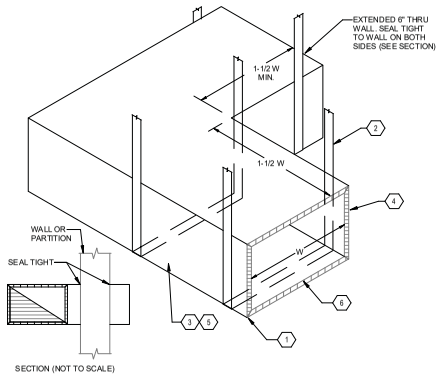


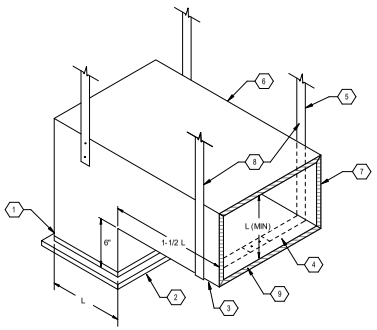
A6 LARGE DUCT SUPPORT DETAIL
SCALE = NONE



KEYNOTES

1. COORDINATE SOUND ELBOW INSTALLATION WITH STRUCTURE, LIGHTS, AND OTHER OBSTRUCTIONS
2. SUPPORT FROM STRUCTURE SIMILAR TO DUCTWORK
3. CONSTRUCT SOUND ELBOW OF 1" THICK RIGID ACOUSTIC INSULATION OR AS SHOWN ON DRAWINGS
4. FURNISH AND INSTALL SOUND ELBOWS AS SHOWN ON DRAWINGS
5. WHEN FIRE DAMPER OR SMOKE DAMPER IS NEEDED AT THE WALL, INSTALL SOUND ELBOW ATTACHED AND SEALED TO WALL.
6. SEAL ALL EXPOSED FIBERGLASS/DUCT BOARD ENDS WITH DUCT LINER EDGE SEALER

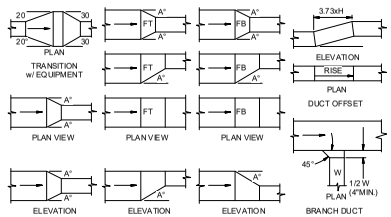
A5 SOUND ELBOW DETAIL FOR TRANSFER OPENINGS
SCALE = NONE



KEYNOTES

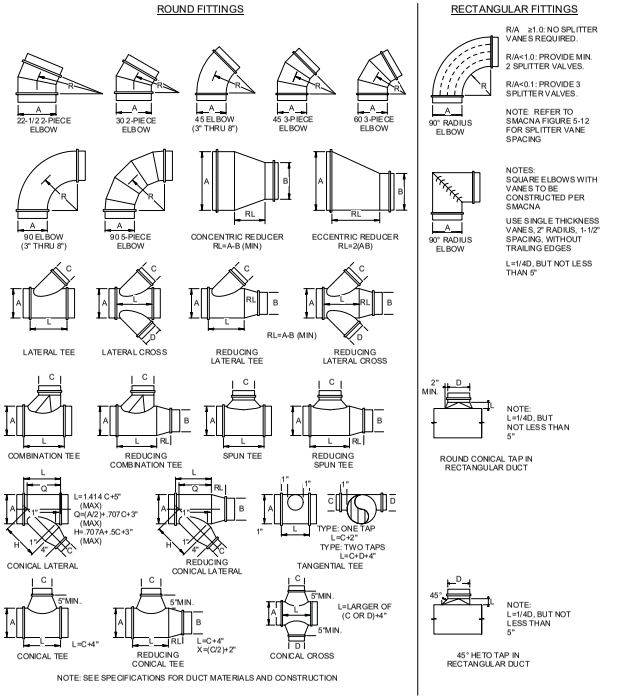
1. SECURE SOUND ELBOW TO RETURN GRILLE.
2. RETURN AIR GRILLE IN CEILING. SEE PLANS AND SCHEDULE FOR SIZE AND TYPE.
3. COORDINATE SOUND ELBOW INSTALLATION WITH STRUCTURE, LIGHTS, AND OTHER OBSTRUCTIONS. POINT OPENING AWAY FROM EQUIPMENT.
4. MAINTAIN SAME FREE AREA AS GRILLE. (MINIMUM).
5. SUPPORT FROM STRUCTURE SIMILAR TO DUCTWORK.
6. CONSTRUCT SOUND ELBOW OF 1" THICK RIGID ACOUSTIC INSULATION.
7. FURNISH AND INSTALL SOUND ELBOWS FOR EACH RETURN GRILLE UNLESS NOTED OTHERWISE ON DRAWINGS.
8. SHEET METAL STRAP OVERLAPPED AT BOTTOM AND HELD IN PLACE WITH TWO SCREWS
9. SEAL ALL EXPOSED FIBERGLASS/DUCT BOARD ENDS WITH DUCT LINER EDGE SEALER

A4 SOUND ELBOW DETAIL FOR RETURN GRILLE
SCALE = NONE



NOTES
- ANGLE A=30 MAXIMUM WHEN AIR FLOWS IN DIRECTION OF ARROWS. (SUPPLY AIR)
- ANGLE A=15 WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROWS (R.A. OR EXHAUST)

A1 LOW PRESSURE DUCT FITTING DETAIL
SCALE = NONE



NOTE: SEE SPECIFICATIONS FOR DUCT MATERIALS AND CONSTRUCTION

A2 MEDIUM PRESSURE AND ROUND DUCT FITTINGS
SCALE = NONE

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

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PROJECT ADDRESS:
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COLORADO LICENSED
NATHANIEL J. NORDIN
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M-502

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
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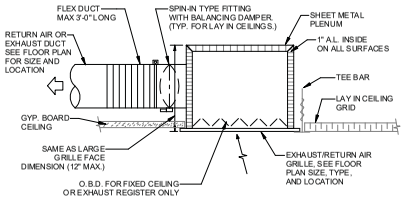
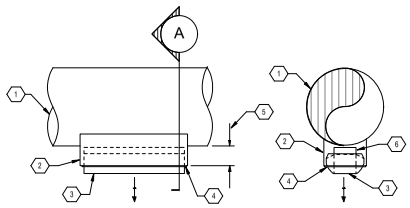


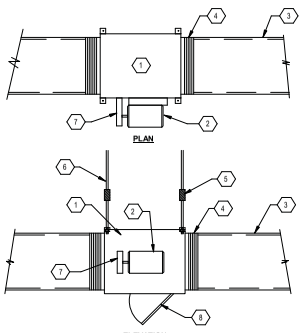
A5 RETURN AIR AND EXHAUST REGISTER DETAIL
SCALE = NONE



KEYNOTES

1. ROUND OR RECTANGULAR SUPPLY DUCT
2. RECTANGULAR EXTENSION, SIZE TO FIT DIFFUSER FRAME, (SEE NOTE 5 BELOW).
3. DRUM PUNKAH LOUVER
4. LOUVER FRAME
5. FOR MAIN SUPPLY VELOCITIES GREATER THAN 1000 FPM. PROVIDE EXTENSION TO MOVE DRUM OUTSIDE MAIN AIR STREAM. (6 TO 12 INCHES)
6. OPPOSED BLADE DAMPER

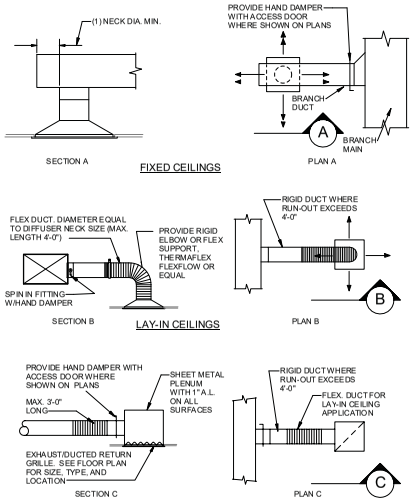
A3 DRUM PUNKAH LOUVER CONNECTION DETAIL
SCALE = NONE



KEYNOTES

1. IN-LINE FAN
2. SIDE MOUNTED MOTOR WHERE CEILING SPACE IS LIMITED
3. ACOUSTICALLY LINED DUCT UNLESS NOTED OTHERWISE ON PLAN
4. FLEXIBLE DUCT CONNECTION (TYPICAL)
5. TYPICAL VIBRATION ISOLATOR
6. 1/2" STEEL ALL-THREAD SUPPORT RODS SECURELY ANCHORED TO STRUCTURE ABOVE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER
7. BELT GUARD ON BELT-DRIVE FANS (TYPICAL)
8. ACCESS DOOR IN HOUSING TO FAN

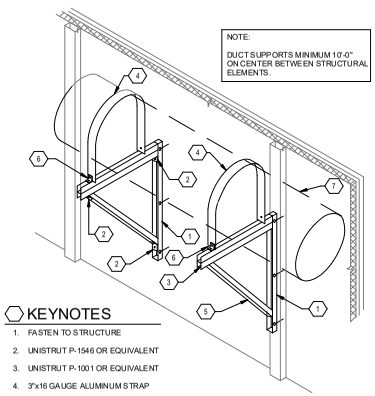
A1 IN-LINE FAN DETAIL
SCALE = NONE



RETURN/EXHAUST REGISTER FOR LAY-IN AND FIXED CEILINGS

NOTE:
PROVIDE BALANCING DAMPER IN SUPPLY AND EXHAUST DUCTS REGARDLESS WHETHER SHOWN ON DRAWINGS

A4 DIFFUSER AND REGISTER CONNECTION DETAIL
SCALE = NONE



KEYNOTES

1. FASTEN TO STRUCTURE
2. UNISTRUT P-1546 OR EQUIVALENT
3. UNISTRUT P-1001 OR EQUIVALENT
4. 3"x16 GAUGE ALUMINUM STRAP
5. UNISTRUT P-1000 OR EQUIVALENT
6. UNISTRUT P-1325 OR EQUIVALENT
7. ROUND DUCT

A2 DUCT SUPPORT DETAIL
SCALE = NONE

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

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PROJECT ADDRESS:
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REVISIONS

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DRAWN BY: NCW
DESIGNED BY: GRC
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
NATHAN E. JONES
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M-503

PROJECT STATUS:
Construction Documents

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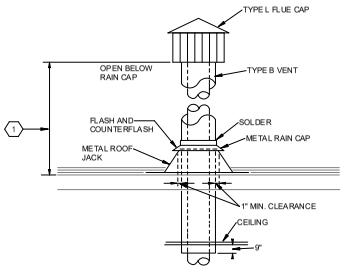
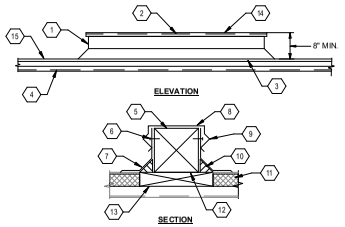
1 FLUE HEIGHT SHALL BE NO LESS THAN 3'-0" ABOVE THE HORIZONTAL ROOF PLANE. SHOULD ANY OBSTRUCTION WITHIN A 10 FOOT RADIUS OF THE FLUE PROJECT ABOVE THE HORIZONTAL ROOF PLANE, THE FLUE SHALL EXTEND TO 3'-0" ABOVE THE OBSTRUCTION. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ITEMS SUCH AS PARAPETS, WALLS, AIR INTAKES, AND ROOF SLOPES.

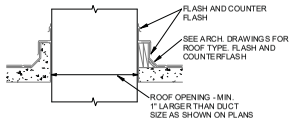


A6 FLUE THRU ROOF DETAIL
SCALE = NONE

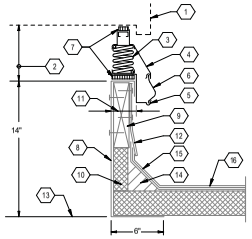


KEYNOTES
1. LOCATE SKIDS FOR SECURE EQUIPMENT SUPPORT
2. SKID SHALL SPAN TWO BEAMS MINIMUM
3. INSTALL SKIDS PERPENDICULAR TO ROOF BEAMS
4. ROOF, SEE ARCHITECTURAL DRAWINGS
5. 8"x8" TREATED REDWOOD SKID
6. FASTENERS AT 8' O.C.
7. BASE FLASHING
8. 20 GAUGE GALVANIZED SHEET METAL CAP
9. COUNTERFLASHING WITH FASTENERS 24" O.C.
10. FIBER CANT STRIP. SET IN BITUMEN
11. ROOF INSULATION. SEE ARCHITECTURAL DRAWINGS
12. MOP SKID IN PLACE WITH HOT ASPHALT TAR OR AS DIRECTED BY ARCHITECT
13. BLOCKING. ANCHOR SECURELY TO ROOF DECK, SAME THICKNESS AS ROOF INSULATION.
14. SET SKIDS TO BE LEVEL WHEN INSTALLED ON SLOPING ROOF

A7 ROOF SKID DETAIL
SCALE = NONE

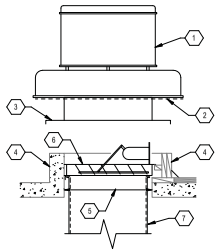


A3 DUCT THRU ROOF DETAIL
SCALE = NONE



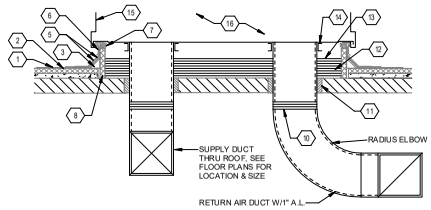
KEYNOTES
1. ROOFTOP UNIT, SEE EQUIPMENT 8 SCHEDULE. VERIFY UNIT BASE DIMENSIONS AND WEIGHT PRIOR TO FABRICATING MOUNTING CURB OR VIBRATION ISOLATOR BASE
2. SPRING VIBRATION ISOLATOR BASE, SEE EQUIPMENT SCHEDULE. ISOLATOR BASE SHALL MATCH ROOFTOP UNIT AND TO INCLUDE ITEMS LISTED IN KEYED NOTES 3, 4, 5, 6, AND 7 BELOW
3. STEEL SPRING ISOLATORS WITH RETAINERS
4. UPPER ALUMINUM SUPPORT MEMBER, CONTINUOUS
5. LOWER ALUMINUM MOUNTING MEMBER, CONTINUOUS
6. NEOPRENE WEATHER SEAL, CONTINUOUS
7. WEATHERPROOF SEAL, CONTINUOUS
8. 14 GA. GALV. STEEL ROOF MOUNTING FRAME CONTINUOUS AROUND PERIMETER OF ROOFTOP UNIT WITH MITERED CORNERS AND WELDED FOR WATERTIGHT SEAL
9. 2x6 NAILER STRIP, CONTINUOUS
10. 2" THICK RIGID INSULATION
11. 2-3/16", VERIFY TO SUIT VIBRATION BASE
12. 20 GA. GALV. STEEL COUNTERFLASH, CONTINUOUS
13. ROOF DECK, SEE ARCHITECTURAL AND STRUCTURAL FOR ROOF TYPE
14. FIBER CANT STRIP, BY OTHERS
15. FLASHING, BY OTHERS
16. ROOFING, SEE ARCHITECTURAL FOR TYPE

A4 SPRING ISOLATED CURB DETAIL
SCALE = NONE



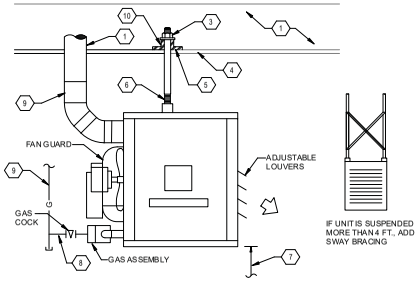
KEYNOTES
1. POWER ROOF EXHAUSTER
2. BIRDSCREEN
3. INTEGRAL CURB CAP. SECURE AND CAULK TO CURB
4. FACTORY CURB SECURELY ANCHORED TO ROOF OR AS SHOWN ON ARCHITECTURAL DRAWINGS. FLASH AND COUNTERFLASH
5. ROOF OPENING - MIN. 1" LARGER THAN DUCT SIZE AS SHOWN ON PLANS
6. MOTORIZED OR BAROMETRIC BACKDRAFT DAMPER AS CALLED FOR ON EQUIPMENT SCHEDULE
7. ACOUSTICALLY LINED DUCT UNLESS EXHAUSTING MOIST AIR

A5 POWER ROOF EXHAUSTER DETAIL
SCALE = NONE



KEYNOTES
1. EXISTING LIGHTWEIGHT PUMICE CONCRETE
2. EXISTING RIGID INSULATION, VERIFY THICKNESS
3. NEW FIBROUS CANT STRIP
4. REPLACE ROOFING BENEATH UNIT WITH LIKE MATERIAL
5. FLASHING
6. COUNTERFLASHING
7. SEAL STRIP
8. ROOF CURB FOR EQUIPMENT
9. EQUIPMENT SUPPORT CURB AS REQUIRED
10. FLEX DUCT CONNECTOR
11. SEAL SPACE BETWEEN DUCT AND ROOF OPENING WITH 3 LB DENSITY FIBERGLASS
12. 4 LAYERS OF 1/2" GYPBOARD BELOW UNIT ON ROOF DECK (CONTINUOUS)
13. INSTALL 4 LAYERS OF 1", 3 LB DENSITY FIBERGLASS DUCT BOARD BETWEEN UNIT AND GYPBOARD (CONTINUOUS)
14. INSTALL RUBBER GASKETS BETWEEN DUCT FLANGE AND UNIT
15. WHERE SPRING ISOLATION CURB IS SPECIFIED REFER TO DETAIL X/MX
16. WHERE COMPRESSOR SECTION IS OUTSIDE OF CURB, A SIMILAR SOUND ATTENUATION ENCLOSURE BELOW COMPRESSORS SHALL BE PROVIDED. THE CONTRACTOR SHALL SUBMIT DRAWINGS FOR PROPOSED METHOD FOR APPROVAL, PRIOR TO INSTALLATION

A1 ROOF CURB DETAIL
SCALE = NONE



KEYNOTES
1. FLUE THRU ROOF SEE DETAIL
2. STRUCTURAL SPACE
3. PLATE OR LARGE WASHER ON TOP OF ANGLES, WITH NUT OR NIPPLE ABOVE
4. WHERE FRAMING VARIES, ATTACH IN AN APPROVED METHOD ACCEPTABLE TO STRUCTURAL ENGINEER
5. WELD ANGLES TOGETHER
6. THREADED ROD OR PIPE PER MANUFACTURER'S RECOMMENDATIONS
7. SEE PLAN FOR MOUNTING HEIGHT, MINIMUM HEIGHT 7'-6"
8. PROVIDE FLEXIBLE CONNECTION ON GAS LINE IF HEATER IS SUSPENDED OVER 4 FEET
9. SEE PLAN FOR SIZES
10. DOUBLE ANGLE, 2" MINIMUM SIZE, OR LARGER FOR LONGER SPAN. SIZE AS DIRECTED BY STRUCTURAL ENGINEER

GENERAL NOTE:
ALL SUSPENDED EQUIPMENT SHALL BE SECURED TO THE STRUCTURE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER.

A2 GAS UNIT HEATER DETAIL
SCALE = NONE

8 0 8 16
SCALE: 1/8" = 1'-0"

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NATHANIEL J. NOWICKI
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

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MECHANICAL DETAILS

SHEET ID:
M-504

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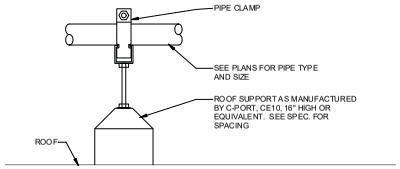
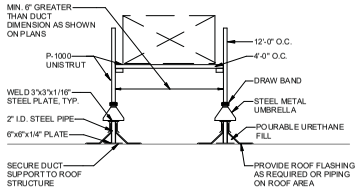
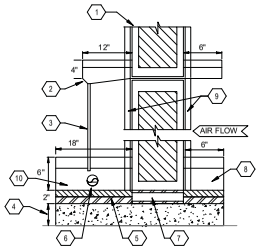


A3 ABOVE ROOF PIPE SUPPORT DETAIL
SCALE = NONE



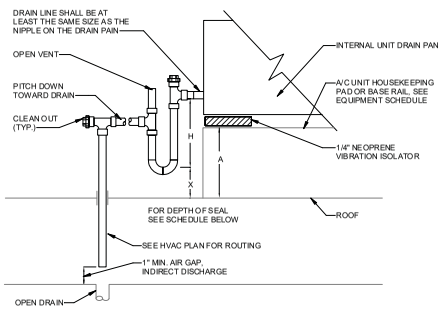
A4 ABOVE ROOF DUCT SUPPORT DETAIL
SCALE = NONE



KEYNOTES

1. COOLING COILS
2. 20 GA. GALVANIZED INTERMEDIATE THROUGH SLOPE TOWARD DRAIN
3. DRAIN PIPE AT EACH END OF PAN
4. SEE SCHEDULE ON PLUMBING DETAIL
5. TWO 1" THICK BATTS FOAMGLASS INSULATION
6. DRAIN TO FLOOR DRAIN - SEE PLUMBING DETAIL FOR SIZE
7. 2"x1"x3/16" STEEL CHANNELS AT 5'-0" O.C.
8. 14 GAUGE BLACK STEEL DRAIN PAN AND COIL SUPPORT WITH CONTINUOUS WELDED SEAMS. APPLY TWO COATS BITUMASTIC OR EISENHEISS PAINT TO INTERIOR. SLOPE TOWARD DRAIN
9. COIL SUPPORT ANGLES WELDED TO CHANNELS 10 6" DRAIN PAN

A5 COIL DRAIN FOR BUILT-UP UNIT
SCALE = NONE



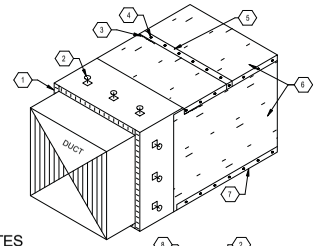
A/C UNIT TYPE	H, IN	X, IN
DRAW THROUGH DRAIN UNDER NEGATIVE PRESSURE	1" + SP1	H/2, MIN.
BLOW THROUGH DRAIN PAN UNDER POSITIVE PRESSURE DISCHARGE	1" MINIMUM	1" + SP2

SP-1. DRAW THROUGH UNIT OPERATION (NEGATIVE) SUCTION PRESSURE WITH COOLING COIL DRAIN PAN CASING SECTION AT CONDENSATE DRAIN LOCATION. (INCHES)

SP-2. BLOW THROUGH UNIT OPERATION FOR DISCHARGE (POSITIVE) PRESSURE WITH COOLING COIL DRAIN PAN CASING SECTION AT CONDENSATE DRAIN LOCATION. (INCHES)

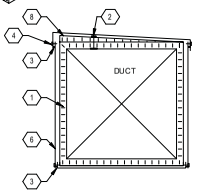
A MINIMUM HEIGHT OF A/C UNIT COOLING COIL SECTION FROM THE HOUSE KEEPING PAD, SHALL BE 6" OR HIGHER AS NECESSARY TO ACCOMMODATE COIL F-TRAP HEIGHT (X + H)

A1 AHU COIL DRAIN P-TRAP AND VENT DETAIL
SCALE = NONE



KEYNOTES

1. MINIMUM 2" TYPE D-8 INSULATION. SEE SPECS.
2. STICK PINS AND WASHERS 12" O.C. UNDER ALUMINUM JACKET.
3. USE CAULKING TO SEAL JOINTS.
4. SCREWS FOR OVERLAPPED JOINTS. 3"-6" O.C.
5. OVERLAPPED JOINTS. OVERLAP ALUMINUM 2"-3".
6. .016" ALUMINUM JACKET WITH VAPOR BARRIER.
7. BREAK ALL CORNERS. NO FIELD BENDS.
8. TAPERED INSULATION ON ONE SIDE. SLOPE TOP INSULATION AND ALUMINUM CAP 1/2" PER FOOT.



NOTE:

- TAKE CARE TO ENSURE STICK PINS DO NOT PROTRUDE THROUGH ALUMINUM JACKET. IF STICK PIN PROTRUDES THROUGH ALUMINUM JACKET USE S.S.DOMED WASHER AND CAULK. NO FLAT WASHERS TO BE USED.
- BOTTOM ALUMINUM CAP MUST BE INSTALLED FIRST TO PROVIDE FOR A MOUNTING SURFACE FOR ALUMINUM SIDES.
- ALUMINUM SIDES SHALL BE MOUNTED SECOND. SCREW INTO BOTTOM ALUMINUM CAP.
- LASTLY, INSTALL TOP ALUMINUM CAP. SCREW INTO FLAT ALUMINUM SIDES AND SEAL JOINTS WITH CAULKING.

A2 EXTERIOR DUCT INSULATION DETAIL
SCALE = NONE

8 0 8 16
SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	GRC
PROJECT NUMBER:	206110040000

SEAL:
COLORADO LICENSED
NATHAN E. NORDYKE
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M-505

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
1/29/2026 4:18:26 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/29/2026 4:18:26 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

PROJECT MECHANICAL DESIGN CRITERIA:

1. ASHRAE CLIMATE ZONE (TABLE C301.1): 5B
2. INTERIOR DESIGN CONDITIONS (SECTION C302.1):
   a. HEATING: 72˚F
   b. COOLING: 75˚F
3. CALCULATIONS OF HEATING AND COOLING LOADS (SECTION C403.1.1): PER ASHRAE STANDARD 183
4. SYSTEM DESIGN (SECTION C403.2):
   a. ZONE ISOLATION PROVIDED FOR ALL ZONES > 25,000 S.F. AND PER FLOOR.
   b. MECHANICAL VENTILATION PROVIDED IN ACCORDANCE WITH CHAPTER 4 OF THE IMC.

MECHANICAL AND SERVICE WATER HEATING SYSTEMS AND EQUIPMENT TYPES, SIZES AND EFFICIENCIES:

REFER TO MECHANICAL & PLUMBING EQUIPMENT SCHEDULES, DRAWINGS AND SCHEMATICS.

ECONOMIZER DESCRIPTION:

AIRSIDE ECONOMIZER, FIXED DRY BULB TYPE WITH HIGH LIMIT SHUTOFF OF T_{OA} > 75˚F.

EQUIPMENT AND SYSTEM CONTROLS:

REFER TO MECHANICAL & PLUMBING EQUIPMENT SCHEDULES, CONTROLS DRAWINGS & SEQUENCES OF OPERATION.

FAN MOTOR HORSEPOWER (HP) AND CONTROLS:

REFER TO MECHANICAL EQUIPMENT SCHEDULES, CONTROLS DRAWINGS & SEQUENCES OF OPERATION.

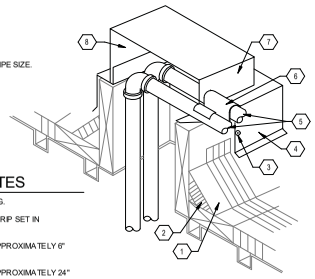
1. MAXIMUM HP NOT TO EXCEED TABLE C403.8.1(1).
2. FAN CONTROLS PER SECTION C403.8.5.

DUCT SEALING, DUCT AND PIPE INSULATION AND LOCATION:

1. SUPPLY AND RETURN AIR DUCT INSULATION SHALL MEET OR EXCEED THE MINIMUM VALUES LISTED IN SECTION C403.11.1. REFER TO SPECIFICATION SECTION 23 0700 FOR REQUIREMENTS.
   a. UNCONDITIONED SPACES WITHIN THE BUILDING: R-6
   b. OUTSIDE THE BUILDING:R-12 (CLIMATE ZONES 5-8).
2. SUPPLY AND RETURN DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SECTION C403.11.2. REFER TO SPECIFICATION 23 3000 FOR REQUIREMENTS.
3. PIPE INSULATION SHALL MEET THE REQUIREMENTS OF SECTION 403.11.3 AND THE TABLE BELOW. REFER TO SPECIFICATION SECTION 23 0700 FOR REQUIREMENTS.

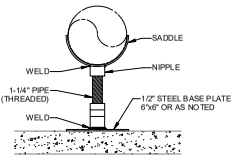
TEMP RANGE	TEMP (F)	INSULATION TYPE	VAPOR SEALED	PIPE SIZE				
				< 1	1 TO 1-1/4	1.5 TO 3	4 & 6	≥ 8
TR-1	< 40	P-1 OR P-4	YES	0.5	1.0	1.0	1.0	1.5
TR-2	40-60	P-1 OR P-4	YES	0.5	0.5	1.0	1.0	1.0
TR-3	61 - 104	P-1	YES	0.5	0.5	0.5	0.5	0.5
TR-4	105 - 140	P-1	NO	1.0	1.0	1.5	1.5	1.5
TR-5	141 - 200	P-1	NO	1.5	1.5	2.0	2.0	2.0
TR-6	201 - 250	P-1	NO	2.5	2.5	2.5	3.0	3.0
TR-7	251 - 350	P-1	NO	3.0	4.0	4.5	4.5	4.5
TR-8	OVER 350	P-1	NO	4.5	5.0	5.0	5.0	5.0

NOTE:
SEE PLANS FOR PIPE SIZE.

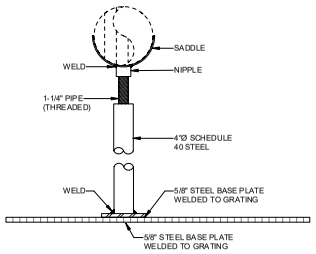


KEYNOTES

1. BASE FLASHING.
2. FIBER CANT STRIP SET IN BITUMEN
3. FASTENERS APPROXIMATELY 6" O.C.
4. FASTENERS APPROXIMATELY 24" O.C.
5. SLOPE PIPES AWAY FROM HOOD.
6. SHEET METAL OR FLEX-TUBE COLLAR.
7. SHEET METAL HOOD.
8. INSULATE INSIDE OF METALWORK IN COLD CLIMATES.

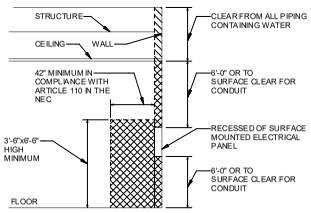


A5 ADJUSTABLE PIPE SUPPORT DETAIL
SCALE = NONE



A6 PIPE SUPPORT DETAIL
SCALE = NONE

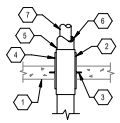
A3 2021 IECC COMPLIANCE NOTES
SCALE = NONE

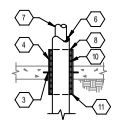


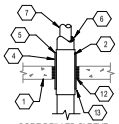
EXCLUSIVELY DEDICATED ELECTRICAL SPACE. NO PIPING OR DUCT SHALL BE ALLOWED WITHIN THESE AREAS

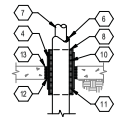
ELECTRICAL SPACE. NO WATER PIPING SHALL BE ALLOWED WITHIN THESE AREAS

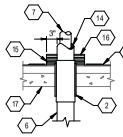
A4 CLEARANCE REQUIREMENTS AT ELECTRICAL PANELS
SCALE = NONE

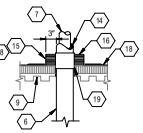












1. CONCRETE STRUCTURE
2. PIPE SLEEVE SIZED FOR PIPE WITH INSULATION
3. WATERSTOP
4. EXTEND SLEEVE 4" ABOVE FINISHED FLOOR LEVEL
5. MINIMUM 18" LONG ALUMINUM INSULATION JACKET
6. INSULATION - SEE SPECS FOR THICKNESS
7. PIPE
8. SEAL WITH WATERPROOF CAULKING
9. STEEL DECK WITH INSULATION
10. PACK ANNULAR SPACE WITH MINERAL WOOL, MIN 1" DEPTH
11. PIPE SLEEVE (I.D. MIN. 1" LARGER THAN O.D. OF PIPE) AND INSULATION
12. WATERPROOF GROUT
13. CORE DRILL MIN. 1" LARGER HOLE THAN O.D. OF PIPE SLEEVE (12" MAXIMUM CORE DRILL SIZE) AND INSULATION
14. EXTERIOR INSULATION JACKET
15. PITCH PAN, 18 GA. GALV. SHEET METAL BY MECHANICAL CONTRACTOR, SUPPLIED TO ROOFING CONTRACTOR
16. FILL WITH PLASTIC FLASHING
17. CONCRETE ROOF DECK
18. ROOFING
19. CAULK WITH FIBROUS MATERIAL BEFORE ADDING PLASTIC FLASHING

A2 PIPE PENETRATION DETAIL
SCALE = NONE

8 0 8 16
SCALE: 1/8" = 1'-0"

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102 East Moreno Avenue
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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	NJN
DRAWN BY:	NCW
DESIGNED BY:	GRC
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
NATHAN E. NORDYKE
PE 0060923
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M-506

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047
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ALL SELECTIONS ARE BASED ON 6,200 FT. ABOVE SEA LEVEL.

ENERGY RECOVERY VENTILATOR SCHEDULE

GENERAL UNIT DATA						SUPPLY AIR SECTION							RETURN SECTION							DIMENSIONS			
						FAN DATA					MOTOR DATA		FAN DATA					MOTOR DATA					
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	AIRFLOW (CFM)	ESP (IN. H2O)	TSP (IN. H2O)	FAN QUANTITY	SIZE AND TYPE	BHP EACH	HP EACH	RPM	AIRFLOW (CFM)	ESP (IN. H2O)	TSP (IN. H2O)	FAN QUANTITY	SIZE AND TYPE	BHP EACH	HP EACH	RPM	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
ERV-2	DAIKIN APPLIED	DPSA031	ENERGY RECOVERY WHEEL	LOGISTICS OFFICE ROOF	FLEET APPARATUS BAY	9470	0.50	2.21	4	DIRECT DRIVE SWSI AF	5.9	2.2	1708	9470	0.50	1.46	2	DIRECT DRIVE SWSI AF	3.29	5.7	1232	409.0	96.5	77.6	12481

ENERGY RECOVER VENTILATIOR SCHEDULE (CONTINUED)

	COOLING COIL DATA									GAS HEATING DATA						FILTER DATA					ENERGY RECOVER DATA								
																					SUMMER DATA				WINTER DATA				
SYMBOL	FACE VELOCITY (FPM)	AIRFLOW (CFM)	ROWS	FINS PER INCH	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	APD (IN H2O)	AIRFLOW (CFM)	NOMINAL CAPACITY (BTUH)	OUTPUT CAPACITY (BTUH)	EAT (°F)	LAT (°F)	APD (IN H2O)	TYPE	QTY X SIZES	DEPTH (IN)	CLEAN APD (IN H2O)	DIRTY APD (IN H2O)	CAPACITY	EAT DB	EAT WB	LAT DB	LAT WB	CAPACITY	EAT DB	LAT DB	OPERATING WEIGHT
ERV-2	360	9470	4	14	330,400	260,700	82.7	64.1	51.0	51.0	0.39	5682	1,125,000	744,800	0.0	100.0	0.13	MERV-8	(8) 20x24; (4) 24x24	2.0	0.08	0.00	24,000	92 °F	65 °F	83 °F	64 °F	492,200	0 °F	41 °F	12481

ENERGY RECOVERY VENTILATOR SCHEDULE (CONTINUED)

	ELECTRICAL DATA							SUPPLY INLET / OUTLET NOISE (dB)							RETURN INLET / OUTLET NOISE (dB)							RADIATED NOISE (dB)							
MARK	VOLTS	PH	HZ	MCA	MOCP	SCCR	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
ERV-2	460	3	60	95.0	110.0	100.00	70	79	72	76	77	72	67	64	70	64	64	58	59	58	55	70	44	78	83	87	88	86	85	82

PACKAGED ROOFTOP UNIT SCHEDULE

GENERAL UNIT DATA						RETURN SECTION					FILTER		COOLING COIL DATA										HEATING DATA				ELECTRICAL DATA					PHYSICAL DATA				
						FAN DATA							FACE VELOCITY (FPM)	APD (IN H2O)	ROWS	FINS PER INCH	CAPACITY (BTUH)		EAT (°F)		LAT (°F)						CAPACITY								
MARK	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	AIRFLOW (CFM)	ESP (IN. H2O)	TSP (IN. H2O)	FAN QUANTITY	SIZE AND TYPE	DEPTH (IN)	TYPE					SENSIBLE	TOTAL	DB	WB	DB	WB	REFRIGERANT	SEER	EER	AIRFLOW (CFM)	EAT (°F)	LAT (°F)	EFF (%)	SEA LEVEL INPUT (BTUH)	NOMINAL (BTUH)	OUTPUT (BTUH)	V	PH	HZ	MCA	MOCP	SCCR (kAIC)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
RTU-1	DAIKIN APPLIED	DPSC025	PACKAGED GAS/DX	FIRE OFFICE ROOF	LIVING SPACE	2825	0.50	1.79	1	12 SWSI AF	2.0	MERV-8	470	0.29	4	14	55,545	57,635	78.0	62.1	54.3	54.3	R32	18.3	12.8	1695	46.3	99.5	81	120,000	120,000	77,800	460	3	60	20.7	25.0	10	84.5	53.3	69.5	1116
RTU-2	DAIKIN APPLIED	DPSC03	PACKAGED GAS/DX	LOGISTICS OFFICE ROOF	LOGISTICS OFFICE	1825	0.50	1.17	1	12 SWSI AF	20.0	MERV-8	380	0.26	4	16	36,090	37,828	78.0	62.1	54.2	54.2	R32	18.1	13.8	1095	47.8	102.7	81	80,000	80,000	51,800	460	3	60	19.1	25.0	10	84.5	53.3	69.5	1010

NOTES:
1. SINGLE POINT POWER CONNECTION PER UNIT.
2. PROVIDE SEPARATELY POWERED GFCI RECEPTABLE.
3. FURNISH WITH INTEGRAL VFDS WITH FUSED INTEGRAL DISCONNECT SWITCHES. VFDS BY ABB ONLY.
4. FURNISH WITH INTEGRAL FUSED DISCONNECT.
5. FURNISH WITH VIBRATION ISOLATION ROOF CURB WITH 2" SPRING ISOLATORS.
6. APPROVED MANUFACTURERS: DAIKIN, AAON, CARRIER, TRANE.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING AIR HANDLING UNIT ACCESSORIES AND CONSTRUCTION.
8. SUBMITTALS SHALL INCLUDE FAN CURVES FOR ENGINEER REVIEW.
9. SPRING ISOLATED FANS.
10. FURNISH WITH 100% ECONOMIZER AND 100% POWERED EXHAUST.
11. FURNISH WITH MODULATING DEMAND CONTROL VENTILATION (DCV) CAPABILITIES. REFER TO CONTROL DRAWINGS AND SEQUENCE OF OPERATIONS. 500 PPM UNOCCUPIED, 1200 PPM OCCUPIED, ADJUSTABLE.
12. UNIT SHALL HAVE RETURN DUCT MOUNTED SMOKE DETECTOR. PROVIDED BY DIVISION 27, INSTALLED BY DIVISION 23.
13. PROVIDE WITH 18" INSULATED RETURN PLENUM CURB.

VARIABLE REFRIGERANT FLOW - INDOOR UNIT SCHEDULE

GENERAL UNIT DATA						COOLING DATA						HEATING DATA			ELECTRICAL DATA						DIMENSIONAL DATA			
MARK	MANUFACTURER	MODEL	OUTDOOR UNIT	BRANCH SELECTOR	REFRIGERANT TYPE	NOMINAL CAPACITY (BTUH)	SENSIBLE OUTPUT (BTUH)	TOTAL OUTPUT (BTUH)	AIRFLOW (CFM)	EAT DB (°F)	EAT WB (°F)	NOMINAL CAPACITY (BTUH)	OUTPUT CAPACITY (BTUH)	EAT (°F)	V	PH	HZ	MCA	MOCP	UNIT LENGTH	UNIT WIDTH	UNIT HEIGHT	WEIGHT (LBS)
IUV-1	DAIKIN	FXZA05AAVJU	VCU-1	BS-1	R32	6,000	3,972	732	300	75.0	61.0	6,000	675	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-2	DAIKIN	FXZA05AAVJU	VCU-1	BS-1	R32	6,000	3,972	1,918	300	75.0	61.0	6,000	1,731	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-3	DAIKIN	FXZA05AAVJU	VCU-1	BS-1	R32	6,000	3,972	1,924	300	75.0	61.0	6,000	1,124	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-4	DAIKIN	FXZA05AAVJU	VCU-1	BS-1	R32	6,000	3,972	620	300	75.0	61.0	6,000	1,195	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-5	DAIKIN	FXZA05AAVJU	VCU-1	BS-1	R32	6,000	3,972	2,007	300	75.0	61.0	6,000	1,078	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-6	DAIKIN	FXZA05AAVJU	VCU-1	BS-2	R32	6,000	3,972	2,027	300	75.0	61.0	6,000	1,079	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-7	DAIKIN	FXZA05AAVJU	VCU-1	BS-2	R32	6,000	3,972	2,024	300	75.0	61.0	6,000	1,081	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-8	DAIKIN	FXZA05AAVJU	VCU-1	BS-2	R32	6,000	3,972	2,291	300	75.0	61.0	6,000	1,205	70.0	208	1	60	0.30	15	23"	23"	10"	35
IUV-9	DAIKIN	FXZA05AAVJU	VCU-1	BS-2	R32	6,000	3,972	1,926	300	75.0	61.0	6,000	663	70.0	208	1	60	0.30	15	23"	23"	10"	35

FAN COIL UNIT SCHEDULE

GENERAL UNIT DATA						ELECTRICAL DATA				PHYSICAL DATA			
			SUPPLY FAN										
SYMBOL	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	ESP (IN. W.G.)	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTU/H)	VOLTS	PHASE	HZ	MCA	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WEIGHT (LBS.)
FCU-1	DAIKIN	FXSA05AAVJU	230	.6	5800	6500	208	1	60	.8	31.5	21.75	9.75	55

INDOOR ENERGY RECOVERY VENTILATOR SCHEDULE

GENERAL UNIT DATA								SUMMER DATA				WINTER DATA		ELECTRICAL DATA					PHYSICAL DATA			
						AIRFLOW (CFM)	ESP (IN. H2O)	EAT (°F)		LAT (°F)		EAT (°F)	LAT (°F)						LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE			DB	WB	DB	WB			V	PH	HZ	MCA	MOCP				
ERV-1	DAIKIN	VAM470GVJU	ENERGERY RECOVERY VENTILATOR	HALL 108	FIRE DORMS	290	0.64	95.0	78.0	75.0	63.0	35.0	70.0	208	1	60	1.6	15.0	31.5	34.5	12.0	71

NOTES:
1. ENSURE UNIT IS INSTALLED WITH MANUFACTURER RECOMMENDED CLEARANCES.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT.

VRF OUTDOOR UNIT SCHEDULE

GENERAL UNIT DATA							REFIGERANT DATA		ELECTRICAL DATA					PHYSICAL DATA				
MARK	MANUFACTURER	MODEL	NOMINAL COOLONG CAPACITY (BTUH)	AMBIENT COOLING AIR TEMP (°F)	NOMINAL HEATING CAPACITY (BTUH)	AMBIENT HEATING AIR TEMP (°F)	CHARGE (LBS)	TYPE	V	PH	HZ	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WEIGHT (LBS)
VCU-1	Daikin	REYA120AATJB	120,000	93.0	135000.0	0 °F	25.80	R32	208	3	60	39.9	45	48.8	30.1	65.4	725

VARIABLE REFRIGERANT FLOW - BRANCH SELECTOR SCHEDULE

GENERAL UNIT DATA				ELECTRICAL DATA					DIMENSIONAL DATA			
MARK	MANUFACTURER	MODEL	OUTDOOR UNIT REFRIGERANT TYPE	V	PH	HZ	MCA	MOCP	UNIT LENGTH	UNIT WIDTH	UNIT HEIGHT	WEIGHT (LBS)
BS-1	Daikin	BSF80454TVJ	VCU-1 R32	208	1	60	1.90	15	33 3/8"	27 11/16"	9 1/2"	110
BS-2	Daikin	BSF80454TVJ	VCU-1 R32	208	1	60	1.90	15	33 3/8"	27 11/16"	9 1/2"	110

DESTRATIFICATION FAN SCHEDULE

GENERAL UNIT DATA				MOTOR DATA			ELECTRICAL DATA					WEIGHT
MARK	MANUFACTURER	MODEL	LOCATION	RPM	BHP	HP	V	PH	HZ	FLA		(LBS)
DF-1	BigAssFans	POWERFOIL D 8'	FIRE APPARATUS BAY	200		1.50	208	1	60	3.0		212
DF-2	BigAssFans	POWERFOIL D 8'	FIRE APPARATUS BAY	200		1.50	208	1	60	3.0		212
DF-3	BigAssFans	POWERFOIL D 8'	FIRE APPARATUS BAY	200		1.50	208	1	60	3.0		212
DF-4	BigAssFans	POWERFOIL D 8'	FIRE APPARATUS BAY	200		1.50	208	1	60	3.0		212
DF-5	BigAssFans	POWERFOIL D 8'	FIRE APPARATUS BAY	200		1.50	208	1	60	3.0		212
DF-6	BigAssFans	POWERFOIL D 8'	FIRE APPARATUS BAY	200		1.50	208	1	60	3.0		212
DF-7	Airtus	A-45-P4-STD-120	FLEET APPARATUS BAY	1550	0.07		120	1	60			14
DF-8	Airtus	A-45-P4-STD-120	FLEET APPARATUS BAY	1550	0.07		120	1	60			14
DF-9	Airtus	A-45-P4-STD-120	FLEET APPARATUS BAY	1550	0.07		120	1	60			14
DF-10	Airtus	A-45-P4-STD-120	FLEET APPARATUS BAY	1550	0.07		120	1	60			14
DF-11	Airtus	A-45-P4-STD-120	FLEET APPARATUS BAY	1550	0.07		120	1	60			14
DF-12	Airtus	A-45-P4-STD-120	FLEET APPARATUS BAY	1550	0.07		120	1	60			14

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	DESCRIPTION	AIRFLOW (CFM)	ESP (IN-H2O)	RPM	BHP	HP	V	PH	HZ	FLA	SONES	OPERATING WEIGHT (LBS)
EF-1	GREENHECK	SQ-7-VG	MEZZANINE	BUNKER GEAR	DIRECT DRIVE INLINE FAN	650	0.75	2868	0.15	0.50	115	10	60	5.7	13.7	50
EF-3	GREENHECK	SP-LP.0511-1	AIRLOCK 128	AIRLOCK 128	CEILING EXHAUST FAN	100	0.30	1317	0.01	0.10	115	1	60	0.4	2.5	15
EF-4	GREENHECK	G-097-VG	ROOF	DECON SHOWERS	DIRECT DRIVE DOWNBLAST FAN	240	0.50	1317	0.04	0.25	115	1	60	3.8	6.1	60
EF-5	GREENHECK	SQ-15	FIRE APPARATUS BAY	FIRE APPARATUS BAY	DIRECT DRIVE INLINE FAN	3780	0.50	1750	0.78	1.00	115	1	60	13.0	18.5	120
EF-6	GREENHECK	SQ-15	FIRE APPARATUS BAY	FIRE APPARATUS BAY	DIRECT DRIVE INLINE FAN	3780	0.50	1750	0.78	1.00	115	1	60	13.0	18.5	120
EF-7	FANTECH	DEDPV705	MEZZANINE	DECON LAUNDRY DRYER	DRYER BOOSTER FAN	105	0.70	1800	0.11	0.11	115	1	60	0.5	3	10

NOTES:
1. PROVIDE FACTORY 18" ROOF CURB FOR ROOF-MOUNTED FANS.
2. FOR INLINE FANS, REFER TO INLINE FAN DETAIL.
3. PROVIDE MOTORIZED DAMPER AND BIRD SCREEN.
4. APPROVED MANUFACTUERS: PENNBARRY, GREENHECK, CAPTIVE AIRE, COOK, TWIN CITY.
5. PROVIDE VARIABLE SPEED FANS WITH FAN SPEED CONTROLLERS.

REFRIGERATION ANALYSIS
2018 INTERNATIONAL MECHANICAL CODE 1102.1 COMPLIANCE

SPACE NUMBER	SPACE NAME	SPACE VOLUME (CUBIC FT.)	LARGEST SYSTEM NAME	REFRIGERANT	MAXIMUM ALLOWABLE LBS PER 1000 CF	MAXIMUM ALLOWABLE LBS PER 1000 CF	RCL SYSTEM CHARGE ALLOWED (LBS)	LFL SYSTEM CHARGE ALLOWED (LBS)	LARGEST SYSTEM CHARGE (LBS)	COMPLIES
108	HALL	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
109	OFFICE	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
110	ADA BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
111	BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
112	BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
113	BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
114	BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
115	BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
116	BUNK	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes
117	LAUNDRY	10930	VCU-1	R-32	4.80	19	52.46	104.38	25.80	Yes

8 0 8 16

SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
719-473-7083
www.rsandh.com

BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: GRC
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
MICHAEL BUNDY
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET ID:
M-701

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/29/2026 4:18:31 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

ALL SELECTIONS ARE BASED ON 6,200 FT. ABOVE SEA LEVEL.

MAKEUP AIR UNIT GAS SCHEDULE

GENERAL UNIT DATA					FILTER DATA				SUPPLY FAN DATA					GAS HEATING DATA				ELECTRICAL DATA					DIMENSIONS			
MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	QTY AND SIZES	DEPTH	AIR PRESSURE DROP (IN H2O)	AIRFLOW (CFM)	RPM	ESP (IN H2O)	BHP TOTAL	HP TOTAL	TYPE	EAT (°F)	LAT (°F)	INPUT CAPACITY (BTUH)	OUTPUT CAPACITY (BTUH)	VOLTS	PH	HZ	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WEIGHT
MAU-1	DAIKIN APPLIED	DAHA03	MEZZANINE	BUNKER, DECON LAUNDRY, SCBA	MERV-8	4 / 16x16	2.0	0.01	650	1323	0.50	0.10	4	GAS	0.0	92.8	80,000	51,800	208	3	60	13.2	20.0	67.0	53.9	40.8	788
MAU-2	GREENHECK	IGX-PT20-H32-MF-P	FIRE STATION ROOF	FLEET APPARATUS BAY	MERV-8				6725	1515	1.50		3	GAS	-1.0	75.5	544,000	440,000	208	3	60	17.2	25.0	208.0	52.1	48.7	1929

NOTES:
1. PROVIDE MAU-2 WITH 18" ROOF CURB.
2. PROVIDE OA MOTORIZED MODULATING LOW LEAKAGE DAMPER AND BIRD SCREEN.
3. APPROVED MANUFACTUERS: GREENHECK, GREASEMASTER, CAPTIVE AIRE, STERLING.
4. FAN SHALL RUN CONTINUOUSLY.
5. FURNACE SHALL BE MODULATING 409 STAINLESS STEEL HIGH TEMP RISE AND POWER VENTED.
6. UNIT SHALL BE SUITIBLE FOR OPERATION AT HIGH ALTITUDE MEETING SCHEDULED PERORMANCE.
7. 2" HIGH EFFICIENTY FILTERS.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	MINIMUM AMBIENT AIR TEMP (°F)	EER	LOCATION	UNIT SERVED	COMPRESSOR TYPE	NO. OF CIRCUITS	NO. OF COMPRESSORS	CIRCUIT CHARGE (LBS)	REFRIGERANT TYPE	V	PH	HZ	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WEIGHT (LBS)
OU-1	DAIKIN	DCSSEN1810	18,000	95.0	0.0	11.2	FIRE ROOF	F-1	SCROLL	1	1	3.3	R32	208	1	60	11.1	15	26"	26"	27 1/2"	142

NOTES:
1. FURNISH OUTDOOR UNIT WITH HAIL GUARDS.
2. UNIT SHALL BE MITSUBISHI, DAIKIN, CARRIER, OR APPROVED EQUIVALENT.
3. FURNISH WITH LOW AMBIENT KIT/WIND BAFFLE TO PROVIDE FULL COOLING CAPACITY DOWN TO 0 DEG F.
4. INDOOR UNIT SHALL BE POWERE BY THE OUTDOOR UNIT.

FURNACE WITH A/C COIL SCHEDULE

GENERAL UNIT DATA							SUPPLY AIR SECTION			COOLING COIL DATA				HEATING DATA				ELECTRICAL DATA					PHYSICAL DATA			
							FAN DATA			CAPACITY (BTUH)	EAT (°F)		LAT (°F)		CAPACITY (BTUH)											
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	ORIENTATION	DESIGN (CFM)	OSA (CFM)	ESP (IN. H2O)	NOMINAL	DB	WB	DB	WB	AIRFLOW (CFM)	EFF (%)	INPUT	OUTPUT	V	PH	HZ	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
F-1	DAIKIN	DC96SN0403BN	GAS/DX	MEZZANINE	FITNESS	HORIZONTAL	750	200	0.50	18,000	78.4	62.2	54.6	54.5	750	96	40,000	38,440	115	1	60	10	15	28.0	17.5	34.0	119

BOILER SCHEDULE

GENERAL UNIT DATA					UNIT HEATING DATA					CONNECTION DATA			ELECTRICAL DATA						DIMENSIONAL DATA			OPER.
MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	INPUT AT SEA LEVEL (BTUH)	OUTPUT CAPACITY	MINIMUM EFFICIENCY (%)	EWT (°F)	LWT (°F)	FLOW (GPM)	GAS LINE SIZE (IN)	GAS PRESSURE (IN. W.G.)	FLUE SIZE (IN)	COMBUSTION AIR (IN)	VOLT	PHASE	HZ	FLA	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
B-1	RAYPAK	XPak FT H 398A	SECOND FLOOR LOGISTICS	LOGISTICS APP BAY FLOOR	399,000	324,500	95	50	190		3/4"	11	4	4	120	1	60	5			21.4	22.1	36.8	262
B-2	RAYPAK	XPak FT H 398A	SECOND FLOOR LOGISTICS	LOGISTICS APP BAY FLOOR	399,000	324,500	95	50	190		3/4"	11	4	4	120	1	60	5			21.4	22.1	36.8	262

NOTES:
1. PROVIDE EACH BOILER WITH BOILER PUMP.
2. APPLIANCE SELECTED AS CATEGORY IV.
3. INSTALL BOILER AND PIPING TO BOILER PER MANUFACTURERS WRITTEN INSTRUCTIONS.
4. PROVIDE CSD-1 COMPLIANT GAS TRAIN.
5. COORDINATE FINAL FULL FLOW AND SHUT OFF GAS PRESSURES PROVIDED BY UTILITY. CHANGE OUT AND/OR PROVIDE ADDITIONAL GAS PRESSURE REGULATORS AS REQUIRED TO SATISFY MAXIMUM GAS PRESSURE REQUIREMENTS.
6. TERMINATE FLUE AND COMBUSTION PER BOILER MANUFACTURER INSTRUCTIONS.
7. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT; SIZE AT 4 GPH/1,000 MBH OF BOILER CAPACITY.
8. PROVIDE ALL CONTROLS AND APPURTENANCES REQUIRED FOR OPERATION AT SITE ALTITUDE OF 6000 FT.
9. PROVIDE BOILER WITH TURNDOWN RATIO OF 7:1 OR BETTER.

NATURAL GAS FIRED UNIT HEATER SCHEDULE

GENERAL UNIT DATA							HEATING DATA		ELECTRICAL DATA			
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	AIRFLOW (CFM)	MOTOR HP	MOTOR RPM	NOMINAL INPUT @ SEA LEVEL (MBH)	OUTPUT @ ELEVATION (MBH)	VOLT	PHASE	HZ	MCA
GUH-1	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-2	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-3	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-4	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-5	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-6	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-7	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-8	STERLING	GG075A1NTA	FIRE APP BAY	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-9	STERLING	GG075A1NTA	GARAGE 131	920	1/12	1050	75	61.5	115	1	60	4.8
GUH-10	STERLING	GG075A1NTA	SHOP & UPFIT	920	1/12	1050	75	61.5	115	1	60	

NOTES:
1. MOUNT AT 14' AFF (12' MIN) AND FOLLOW MANUFACTURER'S INSTRUCTIONS ABOUT CLEARANCES TO COMBUSTIBLES.
2. PROVIDE WITH HIGH ALTITUDE KIT FOR 6,000 FEET OPERATION.

GRILLES, REGISTERS, AND DIFFUSERS

TAG	MANUFACTURER	MODEL	FACE SIZE	TYPE	TOTAL PRESSURE (IN W.G.)
DL-1	PRICE	HCD	SEE PLANS	HIGH CAPACITY DRUM LOUVER	0.01-0.15
SD-1	PRICE	SCDA	24" x 24"	SUPPLY DIFFUSER	0.01-0.15
SD-2	PRICE	SCDA	12" x 12"	SUPPLY DIFFUSER	0.01-0.15
SDG-1	PRICE	SDG	SEE PLANS	SPIRAL DUCT GRILLE	0.03-0.06
SR-1	PRICE	520	SEE PLANS	SIDEWALL SUPPLY DIFFUSER	0.03-0.06
RG-1	PRICE	PDDR	24"" x 24""	RETURN GRILLE	0.01-0.08
RG-2	PRICE	PDDR	24"" x 12""	RETURN GRILLE	0.01-0.08
RG-3	PRICE	PDDR	12"" x 12""	RETURN GRILLE	0.01-0.08
RG-4	PRICE	530	SEE PLANS	SIDEWALL RETURN	0.01-0.08
EG-3	PRICE	PDDR	12" x 12"	EXHAUST GRILLE	0.01-0.08
ER-3	PRICE	530	SEE PLANS	SIDEWALL EXHAUST	0.01-0.08
SDGE-1	PRICE	SDGR	SEE PLANS	SPIRAL DUCT EXHAUST GRILLE	0.01-0.08

NOTES:
1. PROVIDE VOLUME DAMPERS SUCH THAT EVERY GRILLE, REGISTER, AND DIFFUSER CAN BE INDIVIDUALLY BALANCED EXCEPT FOR RETURN GRILLES OPEN TO PLENUM. MAXIMIZE DISTANCE BETWEEN EACH VOLUME DAMPER AND ITS CORRESPONDING GRILLE/REGISTER/DIFFUSER TO MINIMIZE NOISE. DAMPER SHALL BE EASILY ACCESSIBLE FOR AIR BALANCING. INTEGRAL OPPOSED BLADE DAMPERS ARE NOT ALLOWED UNLESS NOTED OTHERWISE.
2. COLOR BY ARCHITECT UNLESS NOTED OTHERWISE.
3. PROVIDE TRIM FOR GRILLES, REGISTERS, AND DIFFUSERS AS NECESSARY TO MOUNT TO WALL/CEILING.
4. PROVIDE SECTORIZING BAFFLES FOR 1, 2, OR 3 WAY FLOW AS INDICATED ON PLANS.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	FUNCTION	DIMENSIONS (IN) WIDTH	HEIGHT	LENGTH	FREE AREA (SF)	AIRFLOW (CFM)	VELOCITY (FPM)	PRESSURE DROP (IN-WG)
LV-1	PRICE	500	EXHAUST	24	24	6		3250		
LV-2	PRICE	500	EXHAUST	24	24	6		3250		
LV-3	PRICE	500	INTAKE	12	12	6				

ELECTRIC UNIT HEATER SCHEDULE

GENERAL UNIT DATA							HEATING DATA	ELECTRICAL DATA		
MARK	MANUFACTURER	MODEL	LOCATION	ORIENTATION	AIRFLOW (CFM)	MOTOR HP	MOTOR RPM	CAPACITY (KW)	STAGES	V	PH	HZ
EUH-1	TRANE	UHEC03	WATER ENTRY 132	HORIZONTAL	400	0.008	1550	3	1	208	1	60
EUH-3	TRANE	FFBB	VESTIBULE 100	VERTICAL	0	-	0	3	2	208	3	60
EUH-4	TRANE	FFBB	VESTIBULE 150	VERTICAL	0	-	0	3	2	208	3	60

KITCHEN HOOD SCHEDULE

GENERAL UNIT DATA						ELECTRICAL DATA			
SYMBOL	MANUFACTURER	MODEL	LOCATION	AIRFLOW (CFM)	ESP (IN. H2O)	V	PH	HZ	FLA
HD-1	VENT-A-HOOD	EPH18	KITCHEN 105	550	0.30	115	1	60	4

SPLIT SYSTEM - DUCTLESS INDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	DESCRIPTION	MINIMUM AIRFLOW (CFM)	DESIGN AIRFLOW (CFM)	NOMINAL CAPACITY (BTUH)	TOTAL CAPACITY (BTUH)	SEER	WEIGHT (LBS)
IU-1	DAIKIN	FTKF24BVJU9	FIRE IT	WALL MOUNTED	335	629	22,400	22,400	21.0	28
IU-2	DAIKIN	FTKF24BVJU9	FIRE ELECTRICAL	WALL MOUNTED	335	629	22,400	22,400	21.0	28
IU-3	DAIKIN	FTKF12BVJU9	LOGISTICS IT	WALL MOUNTED	117	399	12,000	12,000	21.0	19
IU-4	DAIKIN	FTKF24BVJU9	LOGISTICS ELECTRICAL	WALL MOUNTED	335	629	22,400	22,400	21.0	28

NOTES:
1. INDOOR UNIT POWERED BY THE OUTDOOR UNIT.
2. UNIT SHALL BE MITSUBISHI, DAIKIN, CARRIER, OR APPROVED EQUIVALENT.
3. UNIT SHALL BE PROVIDED WITH CONDENSATE PUMP.
4. PROVIDE WIRED THERMOSTAT IN LOCATIONS INDICATED ON THE FLOOR PLAN.
5. MOUNT CONDENSING UNIT PER ROOF SKID DETAIL.
6. REFER TO REFRIGERANT PIPING THRU ROOF DETAIL FOR PIPING VESTIBULE INSTRUCTIONS.

SPLIT SYSTEM - OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	AMBIENT AIR TEMP (°F)	MINIMUM AMBIENT AIR TEMP (°F)	COOLING CAPACITY (BTUH) NOMINAL	TOTAL	REFRIGERANT TYPE	REFRIGERANT CHARGE (LBS)	V	PH	HZ	MCA	MOCP	OPERATING WEIGHT (LBS)
OU-1	DAIKIN	RKF24BVJU9	FIRE OFFICE ROOF	IU-1	95	-4	22,400	22,400	R32	2.5	208	1	60	21	25	113
OU-2	DAIKIN	RKF24BVJU9	FIRE OFFICE ROOF	IU-2	95	-4	22,400	22,400	R32	2.5	208	1	60	21	25	113
OU-3	DAIKIN	RKF12BVJU9	LOGISTICS OFFICE ROOF	IU-3	95	-4	12,000	12,000	R32	1.7	208	1	60	15	15	71
OU-4	DAIKIN	RKF24BVJU9	LOGISTICS OFFICE ROOF	IU-4	95	-4	22,400	22,400	R32	2.5	208	1	60	21	25	113

NOTES:
1. FURNISH OUTDOOR UNIT WITH HAIL GUARDS.
2. UNIT SHALL BE MITSUBISHI, DAIKIN, CARRIER, OR APPROVED EQUIVALENT.
3. FURNISH WITH LOW AMBIENT KIT/WIND BAFFLE TO PROVIDE FULL COOLING CAPACITY DOWN TO 0 DEG F.
4. INDOOR UNIT SHALL BE POWERE BY THE OUTDOOR UNIT.

EXHAUST EXTRACTION FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	AIRFLOW (CFM)	ESP (IN-H2O)	RPM	V	PH	HZ	HP	OPERATING WEIGHT (LBS)
V-EF-1	NEDERMAN	20802464	FIRE MEZZANINE	FIRE VE RAILS	3,600	6.00	3540	460	3	60	10.00	331
V-EF-2	NEDERMAN	14522728	SECOND FLOOR LOGISTICS	LOGISTICS VE SYSTEM	1,600	6.00	3540	460	3	60	3.00	170

EXHAUST EXTRACTION RAIL SCHEDULE

MARK	MANUFACTURER	MODEL	HOSE QUANTITY	RAIL LENGTH (FT)	PRIMARY CFM PER HOSE	HOSE DIAMETER (IN)
VE-1	NEDERMAN	20814964	2	98' -0"	600	6.25
VE-2	NEDERMAN	20814964	2	98' -0"	600	6.25
VE-3	NEDERMAN	20814964	2	98' -0"	600	6.25
VE-4	NEDERMAN	20802865	1		800	6.00
VE-5	NEDERMAN	20802865	1		800	6.00

GAS FIRED RADIANT TUBE HEATER SCHEDULE

GENERAL DATA			DIMENSIONAL DATA		CAPACITIES (MBH)	ELECTRICAL DATA	
MARK	SUPERIOR MODEL	LOCATION	LENGTH (FT)	MOUNTING HEIGHT (FT)	INPUT (MBH) @ SEA LEVEL	V/PH/HZ	FLA
RAD-1	TSX12N	FIRE APPARATUS BAY	40	25	125	120/1/60	1
RAD-2	TSX12N	FIRE APPARATUS BAY	40	25	125	120/1/60	1
RAD-3	TSX12N	FIRE APPARATUS BAY	40	25	125	120/1/60	1
RAD-4	TSX12N	FIRE APPARATUS BAY	40	25	125	120/1/60	1

NOTES:
1. ALL EQUIPMENT IS POWERED BY A 3' CORD TO A CONTRACTOR PROVIDED RECEPTACLE.
2. PROVIDE 3" FLUE AND COMBUSTION AIR DUCTWORK UP THROUGH ROOF FOR EACH HEATER.
3. REFER TO MANUFACTURER FOR REQUIRED MOUNTING HEIGHTS.

8 0 8 16

SCALE: 1/8" = 1'-0"

RS&H
102 East Moreno Avenue
Colorado Springs, CO 80903
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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: GRC
PROJECT NUMBER: 206110040.00

SEAL:
COLORADO LICENSED
MATTHEW E. HUNTER
PE 0060923
PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET ID:
M-702

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 12/9/2025 4:18:35 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

ALL SELECTIONS ARE BASED ON 6,300 FT. ABOVE SEA LEVEL.

ASHRAE 62.1 - 2021
VENTILATION RATE PROCEDURE CALCULATION - ALL SPACES

SYSTEM NAME	ZONE	ROOM #	ROOM NAME	SPACE TYPE	AREA (SF)	DIST. CONF.	SUPPLY CFM	MIN SUPPLY CFM	PEOPLE	OA CFM PER PERSON	OA CFM PER SQ FT	OA SUM OF PEOPLE	OA SUM OF AREA	UNCORRECTED OA, Vou	AIR DISTRIBUTION EFFECTIVENESS, Ez	BREATHING ZONE OA, Vbz	ZONE VENT EFFICIENCY, Evz
ERV-1																	
ERV-1	5	130	FIRE STATION APPARATUS BAYS	PARKING GARAGE	6,477	CSCRH	6500	6500	0	0	0.00	0	0	0	0.8	0	1.05
ERV-1	5	200	FIRESTATION MEZZANINE	PARKING GARAGE	1,477	CSCRH	225	225	0	0	0.00	0	0	0	0.8	0	1.05
ERV-3																	
ERV-3	9	140	LOGISTICS APPARATUS BAYS	PARKING GARAGE	6,880	CSCRH	7000	7000	0	0	0.00	0	0	0	0.8	0	1.05
ERV-3	9	160	PARTS	STORAGE ROOMS	331	CSCRH	240	350	1	5	0.06	5	20	25	0.8	31	0.96
ERV-3	9	161	BULK FLUID	STORAGE ROOMS FOR LIQUIDS/GELS	209	CSCRH	150	150	1	5	0.12	5	25	30	0.8	38	0.79
ERV-3	9	163	SHOP & UPFIT	WAREHOUSES	920	CSCRH	1000	1000	0	10	0.06	0	55	55	0.8	69	0.98
ERV-3	9	202	OPEN STORAGE	STORAGE ROOMS	1,808	CSCRH	1350	1350	4	5	0.06	20	108	128	0.8	161	0.93
ERV-3	9	204	STORAGE	STORAGE ROOMS	759	CSCRH	560	560	2	5	0.06	10	46	56	0.8	69	0.92
ERV-4																	
ERV-4	11	108	HALL	CORRIDORS	348	CSCRH	30	30	0	0	0.06	0	21	21	0.8	26	0.18
ERV-4	11	126	BATH	TOILETS (PRIVATE)	62	CSCRH	50	50	0	0	0.00	0	0	0	0.8	0	1.05
ERV-4	11	127	ADA BATH	TOILETS (PRIVATE)	101	CSCRH	50	50	0	0	0.00	0	0	0	0.8	0	1.05
ERV-4	13	109	OFFICE	OFFICE SPACE	84	CSCRH	20	20	1	5	0.06	5	5	10	0.8	13	0.42
ERV-4	14	110	ADA BUNK	BEDROOM/LIVING ROOM	127	CSCRH	25	25	2	5	0.06	10	8	18	0.8	22	0.17
ERV-4	15	111	BUNK	BEDROOM/LIVING ROOM	109	CSCRH	25	25	2	5	0.06	10	7	17	0.8	21	0.22
ERV-4	16	112	BUNK	BEDROOM/LIVING ROOM	109	CSCRH	25	25	2	5	0.06	10	7	17	0.8	21	0.22
ERV-4	17	113	BUNK	BEDROOM/LIVING ROOM	109	CSCRH	25	25	2	5	0.06	10	7	17	0.8	21	0.22
ERV-4	18	114	BUNK	BEDROOM/LIVING ROOM	109	CSCRH	25	25	2	5	0.06	10	7	17	0.8	21	0.22
ERV-4	19	115	BUNK	BEDROOM/LIVING ROOM	109	CSCRH	25	25	2	5	0.06	10	7	17	0.8	21	0.22
ERV-4	20	116	BUNK	BEDROOM/LIVING ROOM	109	CSCRH	25	25	2	5	0.06	10	7	17	0.8	21	0.22
FCU-1																	
FCU-1	11	117	LAUNDRY	LAUNDRY ROOMS IN DWELLING UNITS	101	CSCRH	100	100	2	5	0.12	10	12	22	0.8	28	0.77
FCU-1	11	118	BATH	TOILETS (PRIVATE)	64	CSCRH	50	50	0	0	0.00	0	0	0	0.8	0	1.05
FCU-1	11	119	BATH	TOILETS (PRIVATE)	64	CSCRH	50	50	0	0	0.00	0	0	0	0.8	0	1.05
FCU-1	11	120	AIRLOCK	CORRIDORS	82	CSCRH	100	100	0	0	0.06	0	5	5	0.8	6	0.98
FCU-1	11	121	DECON SHOWER	TOILETS (PRIVATE)	44	CSCRH	50	50	0	0	0.00	0	0	0	0.8	0	1.05
FCU-1	11	122	DECON SHOWER	TOILETS (PRIVATE)	44	CSCRH	50	50	0	0	0.00	0	0	0	0.8	0	1.05
MAU-1																	
MAU-1	6	133	SHOP AIR & SCBA	STORAGE ROOMS	231	CSCRH	50	50	1	5	0.06	5	14	19	0.8	24	0.57
MAU-1	6	135	DECON LAUNDRY	CENTRAL LAUNDRY ROOMS	217	CSCRH	200	200	3	5	0.12	15	26	41	0.8	51	0.79
MAU-1	6	136	BUNKER GEAR	ATHLETIC LOCKER ROOMS	347	CSCRH	400	400	0	0	0.00	0	0	0	0.8	0	1.05
RTU-1																	
RTU-1	10	101	DUTY OFFICE	OFFICE SPACE	302	CSCRH	350	350	2	5	0.06	10	18	28	0.8	35	0.95
RTU-1	10	102	HALL	CORRIDORS	78	CSCRH	50	50	0	0	0.06	0	5	5	0.8	6	0.93
RTU-1	10	103	TRAINING	CONFERENCE/MEETING	224	CSCRH	300	300	12	5	0.06	60	13	73	0.8	92	0.74
RTU-1	10	104	HISTORY	STORAGE ROOMS	118	CSCRH	100	100	1	5	0.06	5	7	12	0.8	15	0.89
RTU-1	10	105	KITCHEN	RESIDENTIAL KITCHENS	351	CSCRH	700	700	0	0	0.00	0	0	0	0.8	0	1.05
RTU-1	10	106	DINING / DAYROOM	DAYROOM	1,009	CSCRH	1200	1200	31	5	0.06	155	61	216	0.8	269	0.82
RTU-1	10	107	HALL	CORRIDORS	60	CSCRH	75	75	0	0	0.06	0	4	4	0.8	4	0.99
RTU-1	10	128	AIRLOCK	CORRIDORS	68	CSCRH	50	50	0	0	0.06	0	4	4	0.8	5	0.94
RTU-2																	
RTU-2	12	151	ADMIN	OFFICE SPACE	141	CSCRH	150	150	1	5	0.06	5	8	13	0.8	17	0.93
RTU-2	12	152	OFFICE	OFFICE SPACE	158	CSCRH	200	200	1	5	0.06	5	9	14	0.8	18	0.95
RTU-2	12	153	OPEN OFFICE	OFFICE SPACE	328	CSCRH	400	400	2	5	0.06	10	20	30	0.8	37	0.95
RTU-2	12	154	OFFICE	OFFICE SPACE	158	CSCRH	200	200	1	5	0.06	5	9	14	0.8	18	0.96
RTU-2	12	155	BREAK	OFFICE BUILDING BREAKROOMS	291	CSCRH	600	600	15	5	0.12	75	35	110	0.8	137	0.82
RTU-2	12	156	STAFF SHOWER	TOILETS (PRIVATE)	74	CSCRH	100	100	0	0	0.00	0	0	0	0.8	0	1.05
RTU-2	12	157	STAFF LOCKER	LOCKER ROOMS/DRESSING ROOMS	77	CSCRH	100	100	0	0	0.00	0	0	0	0.8	0	1.05
RTU-2	12	158	RESTROOM	TOILETS (PUBLIC)	55	CSCRH	75	75	0	0	0.00	0	0	0	0.8	0	1.05

ASHRAE 62.1 - 2019
VENTILATION RATE PROCEDURE CALCULATION - SYSTEM SUMMARIES

750	SYSTEM TYPE	AREA	SUM OF ALL PEOPLE IN ZONES	TOTAL PEOPLE IN SYSTEM	OCCUPANT DIVERSITY	SUPPLY CFM	MINIMUM SUPPLY CFM	UNCORRECTED OSA, Vou	UNCORRECTED OSA	AVERAGE OUTDOOR AIR FRACTION, Xs	SYSTEM VENTILATION EFFICIENCY, Ev	CORRECTED OSA %	CORRECTED OSA, Vot	PROVIDED OSA	PASS
ERV-1	100% OSA SYSTEM (CONSTANT VOLUME)	7953	0	0		6725	6725					0%	0	6725	Yes
ERV-3	100% OSA SYSTEM (CONSTANT VOLUME)	10907	8	8		10300	10410					4%	368	10410	Yes
ERV-4	100% OSA SYSTEM (CONSTANT VOLUME)	1376	15	15		325	325					57%	185	325	Yes
FCU-1	SINGLE ZONE CONSTANT AIR VOLUME	399	2	2		400	400					8%	34	40	Yes
MAU-1	100% OSA SYSTEM (CONSTANT VOLUME)	794	4	4		650	650					12%	75	650	Yes
RTU-1	SINGLE ZONE CONSTANT AIR VOLUME	2210	46	46		2825	2825					15%	427	1000	Yes
RTU-2	SINGLE ZONE CONSTANT AIR VOLUME	1282	20	20		1825	1825					12%	227	300	Yes

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: NJN
DRAWN BY: NCW
DESIGNED BY: GRC
PROJECT NUMBER: 20611004000

SEAL:
COLORADO REGISTERED NATHANIEL ROBERTS PE 0060923 PROFESSIONAL ENGINEER

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET ID:
M-703

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/29/2026 4:18:37 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/29/2026 4:18:37 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS APPLY TO THIS PROJECT)

UPDATED: 03/03/2014

ABBREVIATIONS

ABBREV.	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ABOVE COUNTER
A/C	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CLOCK
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EC	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEEDER
FMS	FACILITY MANAGEMENT SYSTEM
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
G OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND.
HOA	HAND-OFF-AUTOMATIC.
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR.
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MANHOLE
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPS
N	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NORMAL
NM	NEW MEXICO
NO	NORMALLY OPEN
O/H	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	PHASE
PMCS	POWER MONITORING AND CONTROL SYSTEM
R	REMOVED/REMOVAL
RC	ROOM CONTROLLER
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP.	TYPICAL
UC	UNDER COUNTER
U/G	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF
XFER	TRANSFER
XFMR (TRANSF)	TRANSFORMER

EQUIPMENT NAMING CONVENTION

- 1, 2, 3, . . = SUBFED PANEL
- A, B, C, = SEQUENCE OF PANELS OF THIS TYPE
- 1, 2, 3, . . = FLOOR LEVEL (SB=SUB-BASEMENT, B=BASEMENT, M=MEZZANINE, P=PENTHOUSE)
- T = TRANSFORMER
- DB = DISTRIBUTION BOARD
- MSB = MAIN SWITCH BOARD
- MCC = MOTOR CONTROL CENTER
- I = ISOLATED PANELBOARD
- ATS = AUTOMATIC TRANSFER SWITCH
- PDU = POWER DISTRIBUTION UNIT
- UPS = UNINTERRUPTABLE POWER SUPPLY
- B = BUSWAY
- H = HIGH VOLTAGE PANELBOARD (480Y/277V)
- L = LOW VOLTAGE PANELBOARD (208Y/120V)
- BLANK FOR NORMAL POWER
- E = EMERGENCY
- EL = EMERGENCY-LIFE SAFETY-BRANCH
- EC = EMERGENCY-CRITICAL-BRANCH
- EQ = EMERGENCY-EQUIPMENT-BRANCH
- SES = SERVICE ENTRANCE SECTION NUMBER OR MAIN EMERG SWBD NUMBER

EXAMPLES:
A. SES1 (SERVICE ENTRANCE SECTION #1)
B. 1H1A (SERVED FROM SES#1, 480/277 NORMAL, LEVEL 1, FIRST BOARD)
C. 1EQH1A (SERVED FROM MAIN EMER SWBD #1, 480/277 EQUIP POWER, LEVEL 1, FIRST BOARD)

RACEWAY & CONDUCTORS

BRANCH CIRCUIT GENERAL INFORMATION:

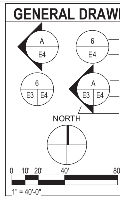
BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR #12AWG COPPER AND 150 FEET FOR #10AWG COPPER; MEASURED ALONG CONDUCTORS ROUTING PATH. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 5%.

SYMBOL	DESCRIPTION
= GROUND; = HOT/PHASE; = NEUTRAL; = SWITCH LEG	CONDUCTOR IDENTIFICATION SYMBOLS. REFER TO PLANS FOR COMBINATION USE. CONDUCTOR IDENTIFICATION MOSTLY USED IN HOMERUN LOCATION, BUT CAN ALSO BE USED IN BRANCH CIRCUITING WHERE APPLIED. GROUND CONDUCTORS WILL BE INSTALLED IN ALL RACEWAYS WHETHER SHOWN OR NOT.
LA-1	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER JCTOR.
LA-1,3 / LA-5,7,9	ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). SYMBOL REPRESENTS A MULTI-BRANCH CIRCUIT. NUMBER OF CONDUCTORS IN HOMERUN WILL INCLUDE A SEPERATE NEUTRAL FOR EACH CIRCUIT PHASE CONDUCTOR. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR. MENT LOCATION. THE CIRCUIT NUMBER
LA-7 / LA-13	ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
DOWN / UP	CONDUIT TURNS
	CONDUIT STUBBED AND CAPPED
B	BUSWAY
G	GROUNDING CONDUCTOR

EQUIPMENT

SYMBOL	DESCRIPTION
H1A	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
L1A	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
MCC	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEARANCES.
T1A	DRY TYPE TRANSFORMER (15kVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE). IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
T	DRY TYPE TRANSFORMER (LESS THAN 15kVA), WITH NO EQUIPMENT TAG.SIZE, TYPE AND LOCATION NOTED ON PLANS.

GENERAL DRAWING SYMBOLS



- SECTION/ELEVATION LETTER OR DETAIL NUMBER
- DRAWING NUMBER WHERE DETAILED
- SECTION/ELEVATION LETTER OR DETAIL NUMBER
- DRAWING NUMBER WHERE DETAILED
- DRAWING NUMBER WHERE TAKEN
- NORTH ARROW OR MATCH ARCHITECT'S
- SCALE BAR OR MATCH ARCHITECT'S

DEVICES

DEVICE INDICATOR LETTER. "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES):

- BLANK FOR NORMAL POWER
- G = GFCI RATED
- IG = ISOLATED GROUND
- T = TAMPERPROOF
- WG = WEATHERPROOF AND GFCI
- WP = WEATHERPROOF (IN-USE COVER)
- CL = CLOCK
- TV = TELEVISION

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
X	FLOOR BOX DUPLEX RECEPTACLE. WIREMOLD #RFB CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
X	FLOOR BOX DOUBLE DUPLEX RECEPTACLE. WIREMOLD #RFB CONFIGURATION AS INDICATED ON PLANS		
X	IN FLOOR EMERGENCY DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	COMBINATION POWER/COMMUNICATION FLOOR BOX OUTLET. WIREMOLD #RFB4* W/CUTOUT COVER ASSEMBLY CONFIGURATION AS INDICATED ON PLANS		
X P	POKE THROUGH FLOOR DUPLEX RECEPTACLE. WIREMOLD #8ATCP**		
X P	POKE THROUGH COMBINATION POWER/COMMUNICATION FLOOR OUTLET. WIREMOLD #8ATCP**.		
X	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING	FLUSH
X	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE		
X	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS		
X	SIMPLEX RECEPTACLE	WALL, UON	+18", UON
X	DUPLEX RECEPTACLE		
X	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	SPLIT DUPLEX RECEPTACLE. TOP HALF SWITCHED WITH BOTTOM HALF CONTINUALLY HOT.		
X	EMERGENCY DUPLEX RECEPTACLE		
X	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS		
TV	TVSS RECEPTACLE/TV BOX COMBO PASS & SEYMOUR #TV1WTVSS*	WALL	+60", UON
	MULTI-OULET ASSEMBLY (SURFACE MOUNTED RACEWAY)	VARIES SEE PLANS	VARIES SEE PLANS
	COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS		
J	WALL MOUNTED CODE SIZE J-BOX	VARIES SEE PLANS	VARIES SEE PLANS
J	CODE SIZE JUNCTION BOX		
P	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)		
	PUSHBUTTON (EMERGENCY POWER OFF - EPO)		
PC	PHOTOCELL		
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	VARIES
T	THERMOSTAT	WALL	+44" UON
CB 30/3R	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
30/1	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
30/3R	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
0/1	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE SPEED UON		
1/30/3R	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
5	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER	N/A	N/A
F	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER		

UTILITIES

SYMBOL	DESCRIPTION
●	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
X	OVERHEAD UTILITY AND OR SYSTEM DISTRIBUTION. 3Ø = THREE PHASE; 1Ø = SINGLE PHASE; P = ELECTRICAL PRIMARY; S = ELECTRICAL SECONDARY; T = TELECOMMUNICATION; TV = TELEVISION; E = EMERGENCY POWER; ATSC = AUTOMATIC TRANSFER SWITCH CONTROL; N = NEW; EX = EXISTING
X	UNDERGROUND UTILITY AND OR SYSTEM DISTRIBUTION.
UT	UTILITY OR FACILITY TRANSFORMER
CT	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT

LIGHTING

REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE MODIFIED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.	VARIES	REFER TO LIGHTING SCHEDULE
A a	RECESSED MOUNTED LUMINAIRE. SMALL CASE "a" DENOTES SWITCHING. SYMBOL "A" DENOTES LUMINAIRE TYPE	CEILING	
	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS		
	LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEM MOUNTED		
	DOWN LIGHT LUMINAIRE; CEILING MOUNTED		
	WALL MOUNTED LUMINAIRES	WALL	
	TRACK MOUNTED LUMINAIRES	SURFACE	
	STRIP LUMINAIRE		
WALL / CEILING	EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS	VARIES	
WALL / CEILING	DOUBLE FACE EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS		
	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)		
	SINGLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
	DOUBLE HEAD, POLE MOUNTED LUMINAIRE		
$x	DEVICE INDICATOR LETTER. "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL; 2 = DOUBLE POLE TOGGLE SWITCH; 3 = THREE-WAY TOGGLE SWITCH; 4 = FOUR-WAY TOGGLE SWITCH; P = PILOT LIGHT TOGGLE SWITCH; M = MOMENTARY CONTACT SWITCH; K = KEY OPERATED SWITCH; WP = WEATHERPROOF TOGGLE SWITCH; T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION; D = DIMMER SWITCH	WALL	+44" UON
VS	VACANCY SENSOR SWITCH; WATTSTOPPER #DW-100 DUAL TECHNOLOGY DUAL RELAY WALL SWITCH SENSOR (SINGLE LEVEL SWITCHING)	TO BE MOUNTED SO AS TO **NOT** BE BLOCKED BY DOOR SWING	
VS B	VACANCY SENSOR SWITCH; WATTSTOPPER #DW-200 DUAL TECHNOLOGY DUAL RELAY WALL SWITCH SENSOR (BI-LEVEL SWITCHING)		
KP	KEY PAD SWITCH; VANTAGE #KS14TE SEE WIRING DIAGRAM SHEET E502		
OS	OCCUPANCY SENSOR, DUAL TECHNOLGY ; WATTSTOPPER #DT-300	CEILING	SURFACE
OS	OCCUPANCY DIRECTIONAL SENSOR, WATTSTOPPER #DT-200		
DL	DIMMING DAY-LIGHTING SENSOR; WATTSTOPPER #LS-301		
PP	POWER PACK; WATTSTOPPER# BZ-50		

ONE-LINE DIAGRAM

SYMBOL	DESCRIPTION
300 / 400	CIRCUIT BREAKER; TRIP SETTING/FRAME SIZE OR NO. OF POLES. SETTINGS AND PROTECTION AS NOTED ON PLANS
T1A 75kVA K-4 208Y/120V Δ480V	TRANSFORMER. TRANSFORMER NAME, TRANSFORMER kVA RATING, PRIMARY VOLTAGE AND WIRING CONFIGURATION, SECONDARY VOLTAGE, K RATING (IF APPLICABLE)
	POTENTIAL TRANSFORMER.
300A	DISCONNECT SWITCH. "300A" DENOTES AMPERAGE RATING
300A	FUSE. "300A" DENOTES AMPERAGE RATING
	GROUND CONNECTION
SPD	SURGE PROTECTIVE DEVICE
KW	KILOWATT METER
M	ELECTRONIC METER
A	AMMETER
VS	VOLTMETER SWITCH
V	VOLTMETER
Δ	DELTA CONNECTED
Y	WYE CONNECTED
VFD	VFD CONNECTION
5	MOTOR CONNECTION

FIRE ALARM

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
FACP	FIRE ALARM CONTROL PANEL	WALL	-
FATC	FIRE ALARM TERMINAL CABINET (EQUIPMENT NAMING CONVENTION PER PLANS)		
FAA	FIRE ALARM ANNUNCIATOR PANEL	WALL	+44"
F	PULL STATION		
	FIREMAN'S TELEPHONE OUTLET		
F	HORN NOTIFICATION	WALL	+80" UON
S	SPEAKER NOTIFICATION		
C	CHIME NOTIFICATION		
	COMBINATION SPEAKER AND CHIME NOTIFICATION		
	SPEAKER/HORN WITH STROBE LIGHT		
	STROBE LIGHT ONLY		
B	BELL (GONG)		
P	PHOTOELECTRIC SMOKE DETECTOR	CEILING	SURFACE
I	IONIZATION SMOKE DETECTOR		
R/F	COMBINATION RATE OF RISE / FIXED TEMPERATURE		
F	FIXED TEMERATURE; TEMPERATURE AS NOTED ON PLANS OR SPECIFICATIONS		
R	RATE OF RISE ONLY		
BT	BEAM TRANSMITTER	CEILING OR WALL	VARIES
BR	BEAM RECEIVER		
U	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
	DUCT DETECTOR	AT DUCT	SEE PLANS
	FIRE/SMOKE DAMPER		
PS	PRESSURE SWITCH	PIPE	VARIES
TS	TAMPER SWITCH		
FS	FLOW SWITCH		
PIV	POST INDICATOR VALVE		
M	MAGNETIC DOOR HOLDER	VARIES	SEE PLANS
R	CONTROL RELAY		
MM	MONITOR MODULE		
	REMOTE ALARM INDICATING LIGHT		
R	ADDRESSABLE/SUPERVISED RELAY		

SPECIAL SYSTEMS

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
	4 PORT FLOOR BOX WITH POWER AND DATA	FLOOR	VARIES SEE PLANS
Jxx	4 PORT FLOOR BOX WITH A/V. REFER TO J-BOX SCHEDULE ON 600 SERIES SHEETS.		
	2 PORT VOICE\DATA OUTLET	WALL	+18" UON
	2 PORT VOICE\DATA OUTLET, STUB A 1" CONDUIT 6" INTO CEILING SPACE	WALL	+18" UON
AC	2 PORT VOICE\DATA OUTLET ABOVE COUNTER TOP	WALL	+44" UON
W	TELEPHONE OUTLET WALL MOUNTED	WALL	+44" UON
IC	INTERCOM CALL SWITCH		
ICM	INTERCOM MASTER STATION		
S	COMMUNICATION HORN	WALL	+84" UON
B	COMMUNICATION BELL		
S	WALL SPEAKER	WALL	+108 UON
DA	DURESS ALARM PUSHBUTTON	WALL	SEE PLANS
LD	LOCK DOWN PUSHBUTTON		
Jx	A/V JUNCTION BOX. REFER TO J-BOX SCHEDULE ON 600 SERIES SHEETS.	WALL	SEE PLANS
Jx Jx Jx	A/V J- BOXES STACKED VERTICALLY. REFER TO J-BOX SCHEDULE ON 600 SERIES SHEETS.		
C S	COMBINATION CLOCK/SPEAKER. MOUNTED ABOVE AND CENTER TO WRITING/TACK BOARD	WALL	SEE PLANS
DSVD	DIGITAL SIGNAGE VIDEO DISPLAY	WALL	SEE PLANS
VP	VIDEO PROJECTOR	REFER TO PLANS	
S PA	CEILING SPEAKER: LOCAL SOUND SYSTEM	CEILING	FLUSH
S IC	CEILING SPEAKER: INTERCOM SYSTEM		
	CABLE TRAY FOR COMMUNICATIONS	ABOVE CEILING	SEE PLANS
J	J-HOOK ROUTING PATH		
	2 PORT CEILING MOUNTED VOICE/DATA OUTLET		
WAP	WIRELESS ACCESS POINT		
Jx	CEILING MOUNTED A/V JUNCTION BOX. REFER TO J-BOX SCHEDULE ON 600 SERIES SHEETS.		

REFERENCE TAGS

SYMBOL	DEFINITION
⬡	KEYED NOTE REFERENCE
VAV-9	MECHANICAL EQUIPMENT REFERENCE
+44"	DENOTES MOUNTING HEIGHT AFF

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

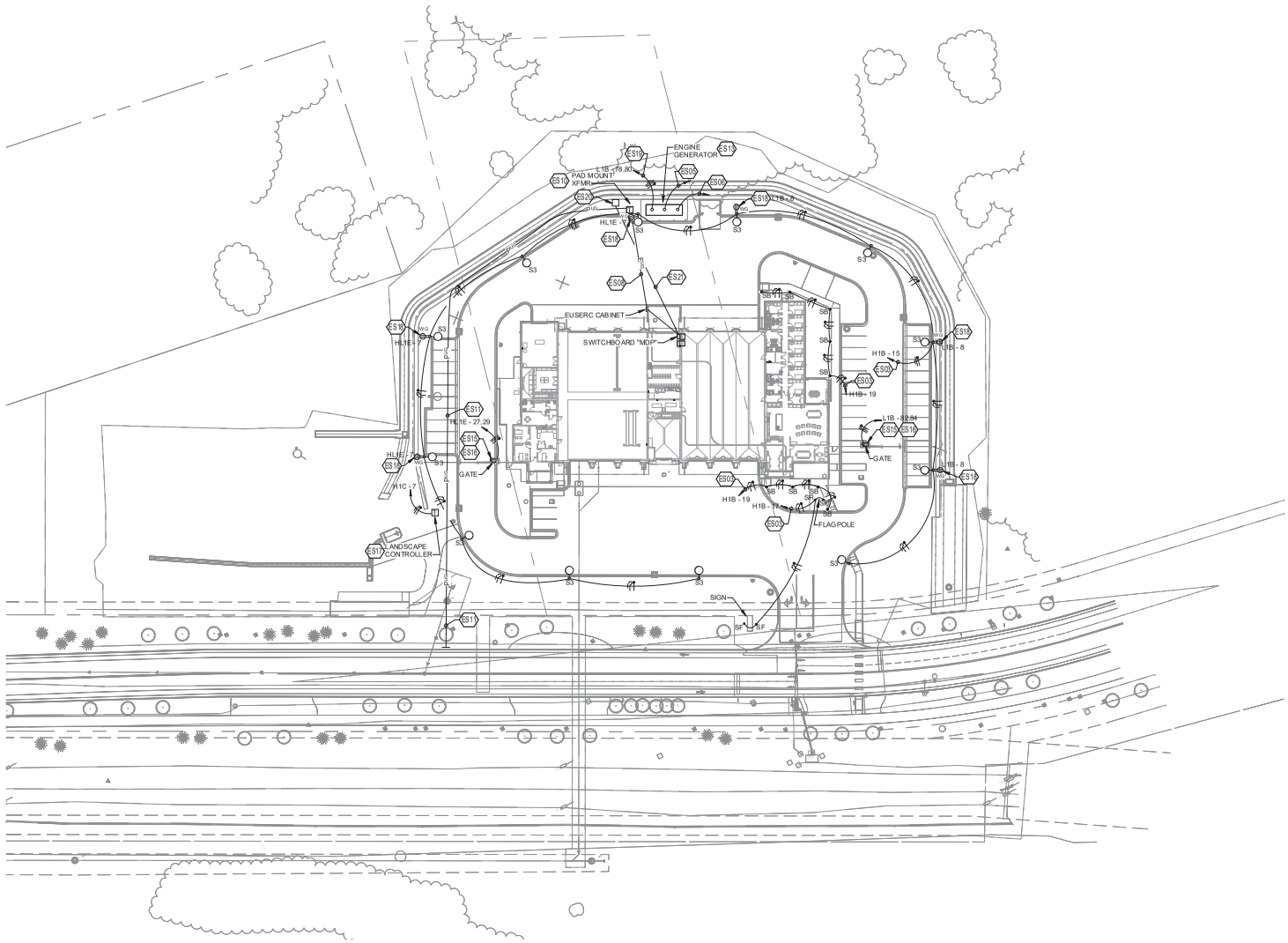
DATE ISSUED: 11/21/2025
REVIEWED BY: SMF/WMB
DRAWN BY: RJO
DESIGNED BY: WMB
PROJECT NUMBER: 20611004000

SEAL:

SHEET TITLE:
ELECTRICAL LEGEND

SHEET ID:
E-001

PROJECT STATUS:
Construction Documents



PN

A1 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

0' 20' 40' 80'

GENERAL SHEET NOTES

A. IF ANY UTILITY LINES, PIPELINES OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY. THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

B. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF WORK IN ADVANCE OF AN DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OTHERWISE.

C. ALL EXTERIOR LIGHTING CONDUITS SHALL BE MINIMUM 1" SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED.

D. ALL EXTERIOR LIGHTING CONDUCTORS SHALL BE #8 UNLESS OTHERWISE INDICATED.

KEYNOTES

ES03 EXTEND BRANCH CIRCUITING INDICATED TO EXTERIOR LIGHTING CONTROL PANEL LCP-1. REFER TO EXTERIOR LIGHTING CONTROL SCHEDULE ON SHEET E-701.

ES05 PROVIDE 8#14 IN 1" CONDUIT. EXTEND TO EACH TRANSFER SWITCH AND CONNECT.

ES06 PROVIDE ONE UNSHIELDED, TWISTED PAIR CAT 5 CABLE AND 2#10 IN 1" CONDUIT FOR THE ENGINE GENERATOR ANNUNCIATOR. THE CAT 5 CABLES ARE FOR THE SIGNAL CONNECTION AND THE #10 CONDUCTORS ARE FOR THE 24 VDC POWER.

ES08 ELECTRICAL SECONDARY FEEDER. REFER TO ONE LINE DIAGRAM ON SHEET E-601 FOR REQUIREMENTS.

ES10 LOCATION OF PAD MOUNT TRANSFORMER TO BE PROVIDED BY CORE ELECTRIC COOP. REFER TO ONE LINE DIAGRAM ON SHEET E601 FOR REQUIREMENTS.

ES11 PROVIDE A 4" CONDUIT FROM THE PAD MOUNT TRANSFORMER, UNDERGROUND TO THE PROPERTY LINE AS PER THE REQUIREMENTS OF CORE ELECTRIC COOP.

ES13 LOCATION OF ENGINE GENERATOR. REFER TO SHEET E601 FOR ADDITIONAL INFORMATION.

ES15 MAKE CONNECTION TO MOTORIZED GATE OPERATOR AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS. MAKE ALL ELECTRICAL AND LOW VOLTAGE CONNECTIONS FOR GATE OPERATION. THIS IS TO INCLUDE THE IN GRADE LOOP.

ES16 MAKE CONNECTION TO GATE OPERATOR EXTREME COLD/HEAT PACKAGE AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

ES17 PROVIDE A 500 VA, 277V/120/ CONTROL TRANSFORMER INSIDE IRRIGATION VAULT FOR CONNECTION OF IRRIGATION CONTROLLER.

ES18 INSTALL DEVICE INDICATED 48" AFG. PROVIDE 2#8 AND 1#8 GROUND IN 3/4" CONDUIT FOR BRANCH CIRCUIT.

ES19 PROVIDE 2#2 AND 1#6 GROUND IN 1 1/4" CONDUIT.

ES20 PROVIDE A 17"X3'0"X12" IN GRADE, OPEN BOTTOM, QUAZITE PULLBOX WITH SOLID LID LABELED "ELECTRICAL". PULLBOX IS FOR FUTURE ENGINE GENERATOR CONNECTION.

ES21 PROVIDE THREE 4" UNDERGROUND CONDUITS WITH PULLS TRING. TERMINATE CONDUITS AT PULLBOX AND INTO ELECT #138 CEILING CAVITY.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: SMF/WMB
DRAWN BY: RJO
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PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET ID:
ES101

PROJECT STATUS:
Construction Documents

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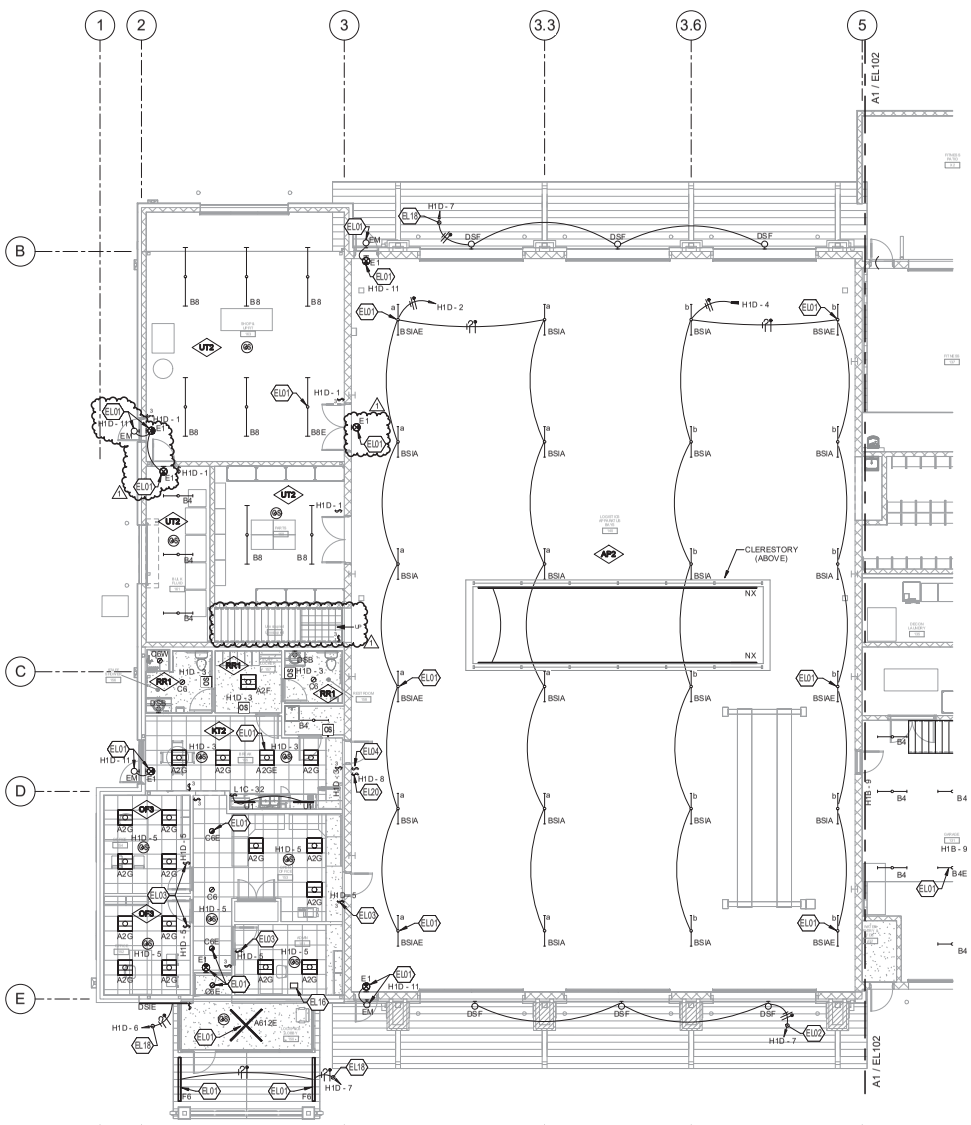

N PN

A1 LIGHTING PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 2, ON SHEET E-501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS DETAIL 1 ON SHEET E-501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL SWITCHES.

D. ALL EXIT FIXTURES SHALL BE CONNECTED TO BRANCH CIRCUIT H1D-11.

KEYNOTES

EL01 FIXTURE INDICATED PROVIDES EMERGENCY ILLUMINATION DURING NORMAL POWER FAILURE.

EL02 EXTEND BRANCH CIRCUITING INDICATED TO EXTERIOR LIGHTING CONTROL PANEL LCP-1. REFER TO EXTERIOR LIGHTING CONTROL SCHEDULE ON SHEET E-701.

EL03 PROVIDE A 0-10V LINEAR SLIDE, LED, DIMMER SWITCH.

EL04 TWO SWITCHES 3A AND 3B. EACH SWITCH SHALL BE A 0-10V LINEAR SLIDE, LED, DIMMER SWITCH.

EL16 PROVIDE AN ASSURANCE #SI-125-PST MINI INVERTER ABOVE ACCESSIBLE CEILING FOR CONNECTION OF LIGHT FIXTURE TYPE "F6". CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EL18 EXTEND BRANCH CIRCUITING THRU LIGHTING CONTROL PANEL "LCPZ" TO BRANCH CIRCUIT INDICATED. REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

EL20 PROVIDE A BEULUX #CDMX128C DMX SINGLE CONTROL KEYPAD FOR CONTROL OF CLERESTORY LIGHT FIXTURE TYPE NX. INSTALL AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS. FURNISH WITH ALL ACCESSORIES FOR A COMPLETE INSTALLATION.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

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1	Plans Resubmittal	01/26/2026

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DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

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COLORADO LICENSED
SUMAIL FARLEE
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
LIGHTING PLANS - LOGISTICS

SHEET ID:
EL101

PROJECT STATUS:
Construction Documents

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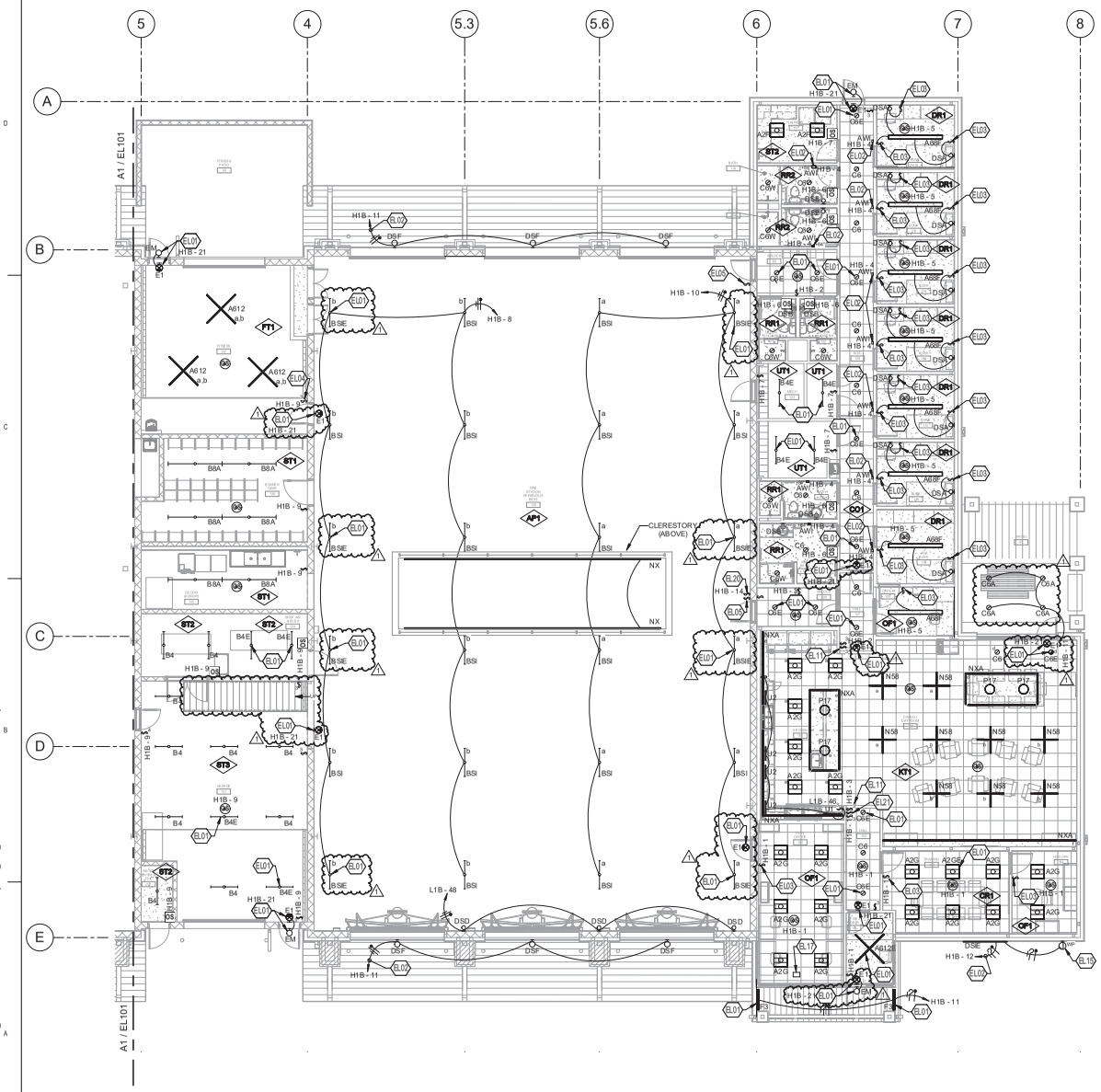

A1 LIGHTING PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 2, ON SHEET E-501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS DETAIL 1 ON SHEET E-501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL SWITCHES.

D. ALL EXIT FIXTURES SHALL BE CONNECTED TO BRANCH CIRCUIT H1B-21.

KEYNOTES

EL01 FIXTURE INDICATED PROVIDES EMERGENCY ILLUMINATION DURING NORMAL POWER FAILURE.

EL02 EXTEND BRANCH CIRCUITING INDICATED TO EXTERIOR LIGHTING CONTROL PANEL LCP-1. REFER TO EXTERIOR LIGHTING CONTROL SCHEDULE ON SHEET E-701.

EL03 PROVIDE A 0-10V LINEAR SLIDE, LED, DIMMER SWITCH.

EL04 TWO SWITCHES $A AND $B. EACH SWITCH SHALL BE A 0-10V LINEAR SLIDE, LED, DIMMER SWITCH.

EL05 PROVIDE ROOM CONTROLLERS THAT WILL ALLOW EACH LIGHT FIXTURE SEPARATE DIMMABLE CONTROL FOR EACH LIGHT SOURCE, RED AND WHITE. PROVIDE TWO BUTTON REMOTE STATIONS WITH DIMMING CAPABILITY FOR EACH FIXTURE LIGHT SOURCE, RED AND WHITE.

EL11 THREE SWITCHES, $A, $B AND $C, EACH SWITCH SHALL BE A 0-10V, MULTI LOCATION DIMMER SWITCH.

EL15 MAKE CONNECTION TO INTERNAL ILLUMINATED LETTERS AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EL17 PROVIDE AN ASSURANCE #SS-125-PST MINI INVERTER, ABOVE ACCESSIBLE CEILING FOR CONNECTION OF LIGHT FIXTURE TYPE "F3". CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EL20 PROVIDE A BEULUX #CDMX12IC DMX SINGLE CONTROL KEYPAD FOR CONTROL OF CLERESTORY LIGHT FIXTURE TYPE NX. INSTALL AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS. FURNISH WITH ALL ACCESSORIES FOR A COMPLETE INSTALLATION.

EL21 THREE SWITCHES, $C, $D AND $E. PROVIDE A BEULUX #CDMX1024C DMX MULTI ZONE CONTROL KEYPAD FOR CONTROL OF KITCHEN/DINING/DAY ROOM LIGHT FIXTURE TYPE NXA. INSTALL AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS. FURNISH WITH ALL ACCESSORIES FOR A COMPLETE INSTALLATION.

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
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DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMAIL FAGELEY
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
LIGHTING PLAN - FIRE STATION

SHEET ID:
EL102

PROJECT STATUS:
Construction Documents

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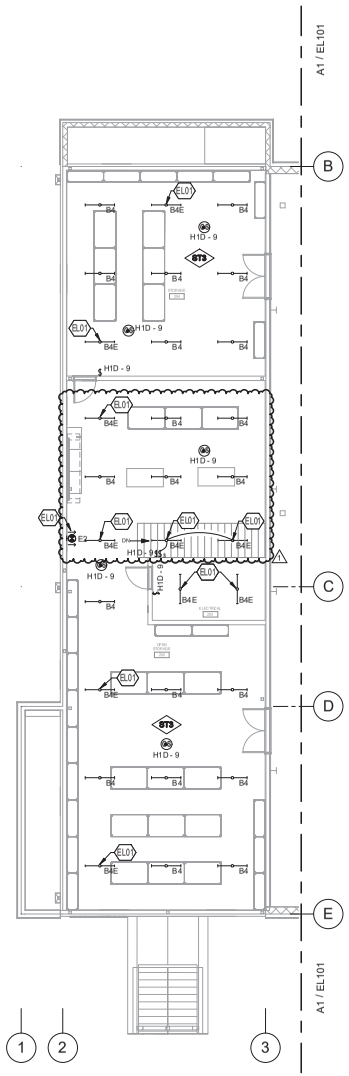
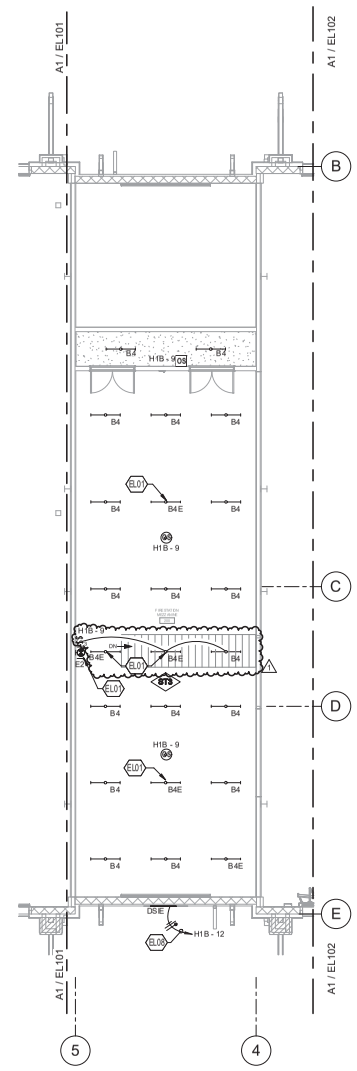


2 LIGHTING PLAN - LOGISTICS MEZZANINE

SCALE: 1/8" = 1'-0"



1 LIGHTING PLAN - FIRE STATION MEZZANINE

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 2, ON SHEET E-501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS DETAIL 1 ON SHEET E-501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL SWITCHES.

D. ALL EXIT FIXTURES SHALL BE CONNECTED TO BRANCH CIRCUITS H1D-11(LOGISTICS) AND H1B-21 (FIRE STATION).

KEYNOTES

EL01 FIXTURE INDICATED PROVIDES EMERGENCY ILLUMINATION DURING NORMAL POWER FAILURE.

EL08 TWO SWITCHES, $3A AND $B. $A SHALL CONTROL THE CENTER LAMP IN EACH LUMINAIRE INDICATED WITH $B CONTROLLING THE TWO OUTBOARD LAMPS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: SMR/WMB
DRAWN BY: RJO
DESIGNED BY: WMB
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
SUNIL FAGER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
LIGHTING PLAN - FIRE STATION AND LOGISTICS

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EL103

PROJECT STATUS:
Construction Documents

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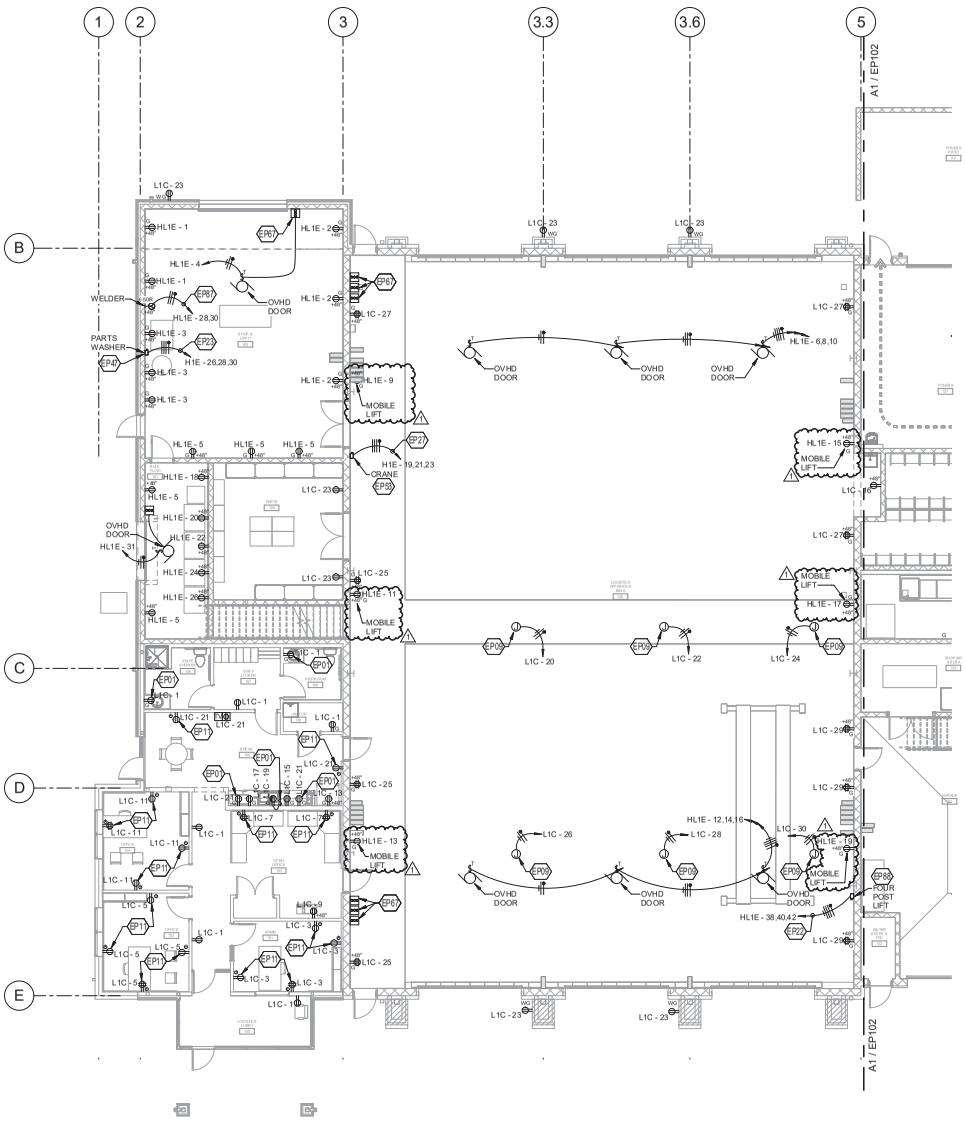

PN

A1 ELECTRICAL PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

KEYNOTES

EP01 PROVIDE DEVICE INDICATED MOUNTED 4" ABOVE COUNTERTOP. VERIFY EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN.

EP09 PROVIDE DEVICE INDICATED FOR CORD REEL DROPS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN. REFER TO DETAIL 3 ON SHEET E501 FOR REQUIREMENTS.

EP11 DEVICE INDICATED SHALL BE CONTINUOUSLY HOT AND SWITCHED BY OCCUPANCY SENSOR. REFER TO DETAIL ON SHEET E-502.

EP22 PROVIDE (4)#10 AND (1)#10 GROUND IN 3/4" CONDUIT.

EP23 PROVIDE (3)#8 AND (1)#10 GROUND IN 3/4" CONDUIT.

EP27 PROVIDE (3)#4 AND (1)#8 GROUND IN 1 1/4" CONDUIT.

EP47 PROVIDE A 60 AMP, 600V, 3 POLE+SN, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP53 PROVIDE A 100 AMP, 600V, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP67 LOCATION OF OVERHEAD DOOR CONTROLS. MAKE CONNECTION TO RESPECTIVE OVERHEAD DOOR AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP87 PROVIDE 2#6 AND 1#10 GROUND IN 3/4" CONDUIT.

EP88 PROVIDE A 30 AMP, 240 VOLT, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL PLAN - LOGISTICS

SHEET ID:
EP101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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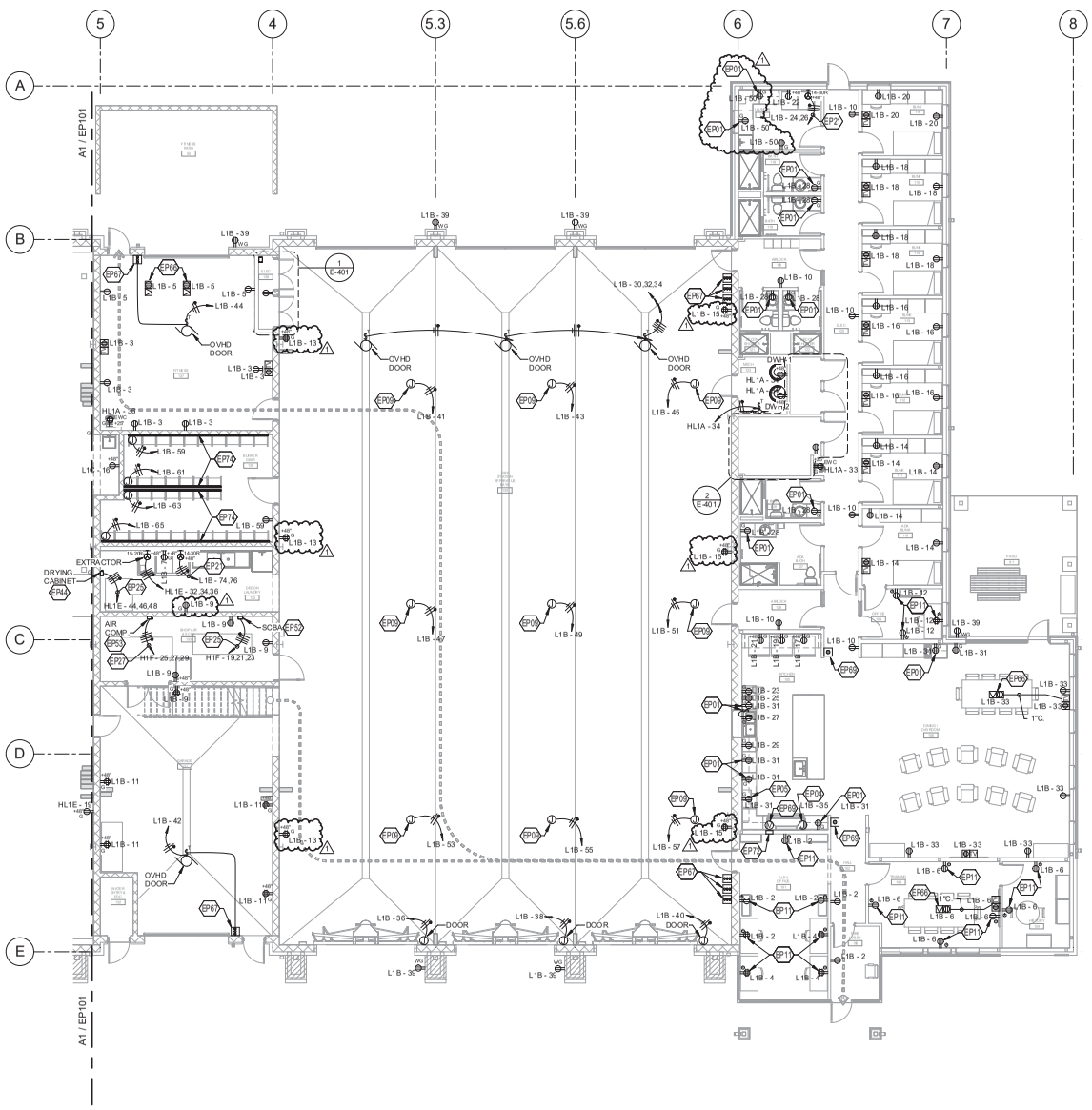

A1 ELECTRICAL PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

PN

8 0 8 16

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

KEYNOTES

EP01 PROVIDE DEVICE INDICATED MOUNTED 4" ABOVE COUNTERTOP. VERIFY EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN.

EP04 PROVIDE JUNCTION BOX INDICATED FOR CONNECTION OF RANGE HOOD. VERIFY EXACT LOCATION IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.

EP05 PROVIDE DEVICE INDICATED FOR DEDICATED CONNECTION OF MICROWAVE. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

EP09 PROVIDE DEVICE INDICATED FOR CORD REEL DROPS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN. REFER TO DETAIL 3 ON SHEET E501 FOR REQUIREMENTS.

EP11 DEVICE INDICATED SHALL BE CONTINUOUSLY HOT AND SWITCHED BY OCCUPANCY SENSOR. REFER TO DETAIL ON SHEET E-0.02.

EP21 PROVIDE (3)#10 AND (1)#10 GROUND IN 3/4" CONDUIT.

EP25 PROVIDE (3)#6 AND (1)#10 GROUND IN 3/4" CONDUIT.

EP27 PROVIDE (3)#4 AND (1)#8 GROUND IN 1 1/4" CONDUIT.

EP44 PROVIDE A 60 AMP, 240V, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP52 PROVIDE A 100 AMP, 240V, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP53 PROVIDE A 100 AMP, 600V, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS..

EP66 COORDINATE EXACT LOCATION OF FLOOR BOX IN THE FIELD WITH ARCHITECT PRIOR TO ANY ROUGH-IN.

EP67 LOCATION OF OVERHEAD DOOR CONTROLS. MAKE CONNECTION TO RESPECTIVE OVERHEAD DOOR AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP69 PROVIDE AN ISIMET #FLAV2-F FIRE STATION COOKING CONTROLLER EMERGENCY FUEL SHUTOFF FOR GAS COOKING RANGE IN KITCHEN #105. PROVIDE #18 CONTROL WIRING FROM CONTROLLER TO SHUT OFF VALVE. CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAM.

EP72 LOCATION OF ENGINE GENERATOR REMOTE ANNUNCIATOR PANEL AND EMERGENCY SHUTDOWN BUTTON. COORDINATE EXACT LOCATION IN THE FIELD WITH ARCHITECT AND OWNER PRIOR TO ANY ROUGH-IN.

EP74 PROVIDE A WIREMOLD #G3000 SURFACE MOUNTED RACEWAY WITH DUPLEX RECEPTACLES EVERY 24" O.C. VERIFY EXACT LOCATION IN FIELD WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

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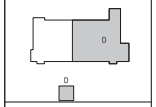
PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:



REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

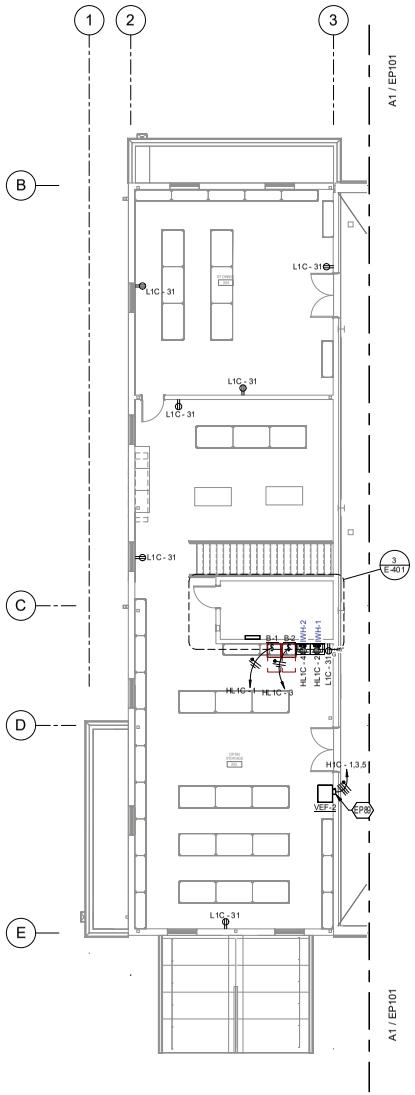
SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL PLAN - FIRE STATION

SHEET ID:
EP102

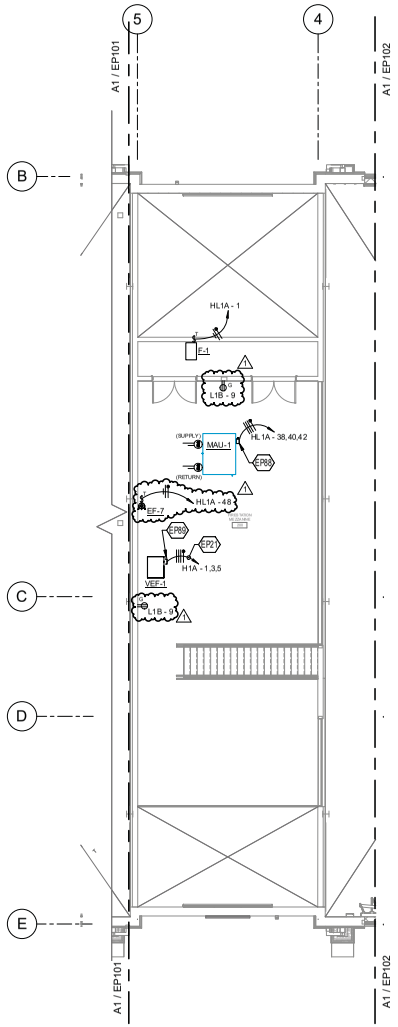
PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/23/2026 10:17:15 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



ELECTRICAL PLAN - LOGISTICS MEZZANINE

2 SCALE: 1/8" = 1'-0"



ELECTRICAL PLAN - FIRE STATION MEZZANINE

1 SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

KEYNOTES

EP21 PROVIDE (3)#10 AND (1)#10 GROUND IN 3/4" CONDUIT.

EP86 PROVIDE A 30 AMP, 240 VOLT, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP89 PROVIDE A 30 AMP, 600 VOLT, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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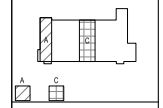
PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:



REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMAIL FAGLER
64223
PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL PLAN - FIRE STATION AND LOGISTICS

SHEET ID:
EP103

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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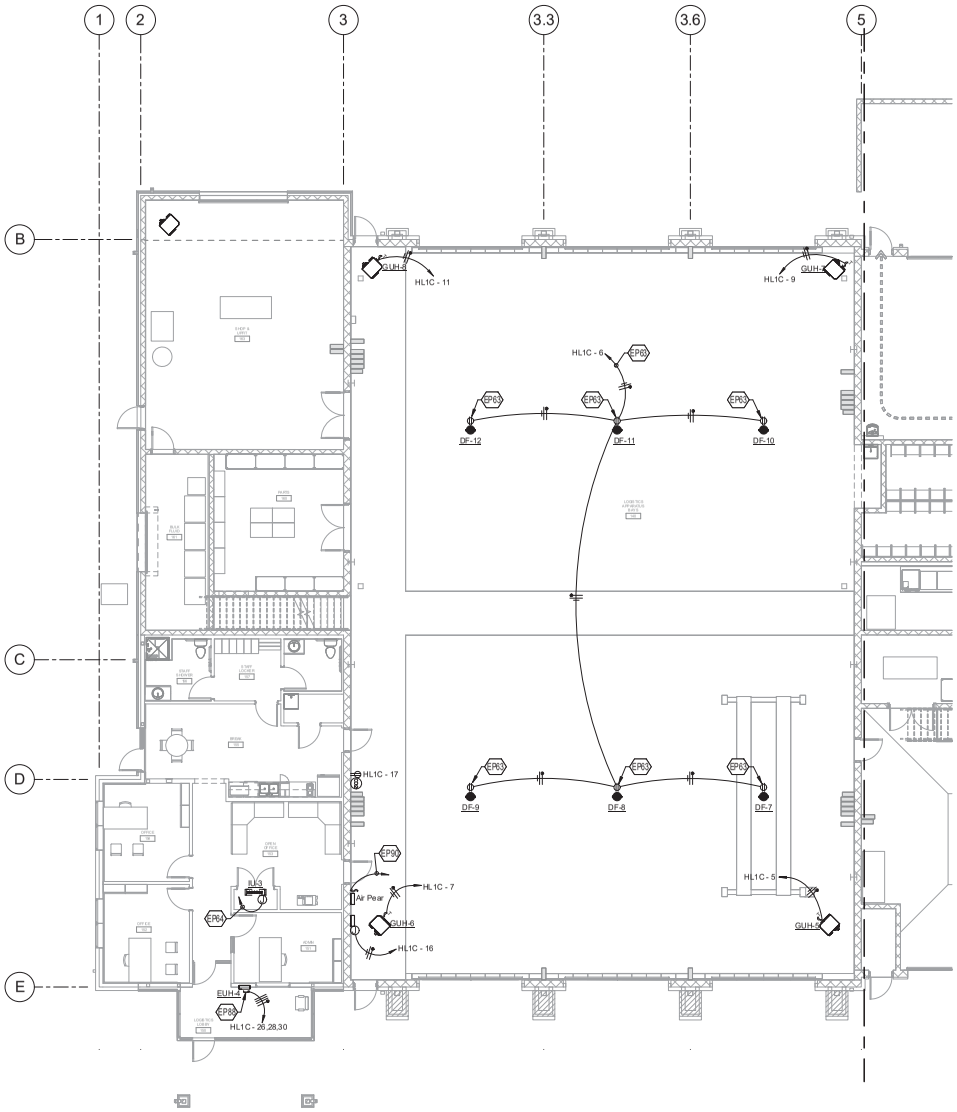

PN

1 MECHANICAL EQUIPTMENT ELECTRICAL PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

KEYNOTES

EP63 PROVIDE DEVICE FOR CONNECTION OF DESTRATIFICATION FAN. EXTEND BRANCH CIRCUIT THRU CONTROLLER PROVIDED WITH FANS AND CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP64 INSTALL REQUIRED CONTROL CONDUCTORS IN 1/2" CONDUIT TO RESPECTIVE CONDENSING UNIT. CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP88 PROVIDE A 30 AMP, 240 VOLT, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP90 MAKE CONNECTION TO DESTRAT FAN VARIABLE SPEED SWITCH AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL PLAN - LOGISTICS MECHANICAL EQUIPTMENT

SHEET ID:
EP104

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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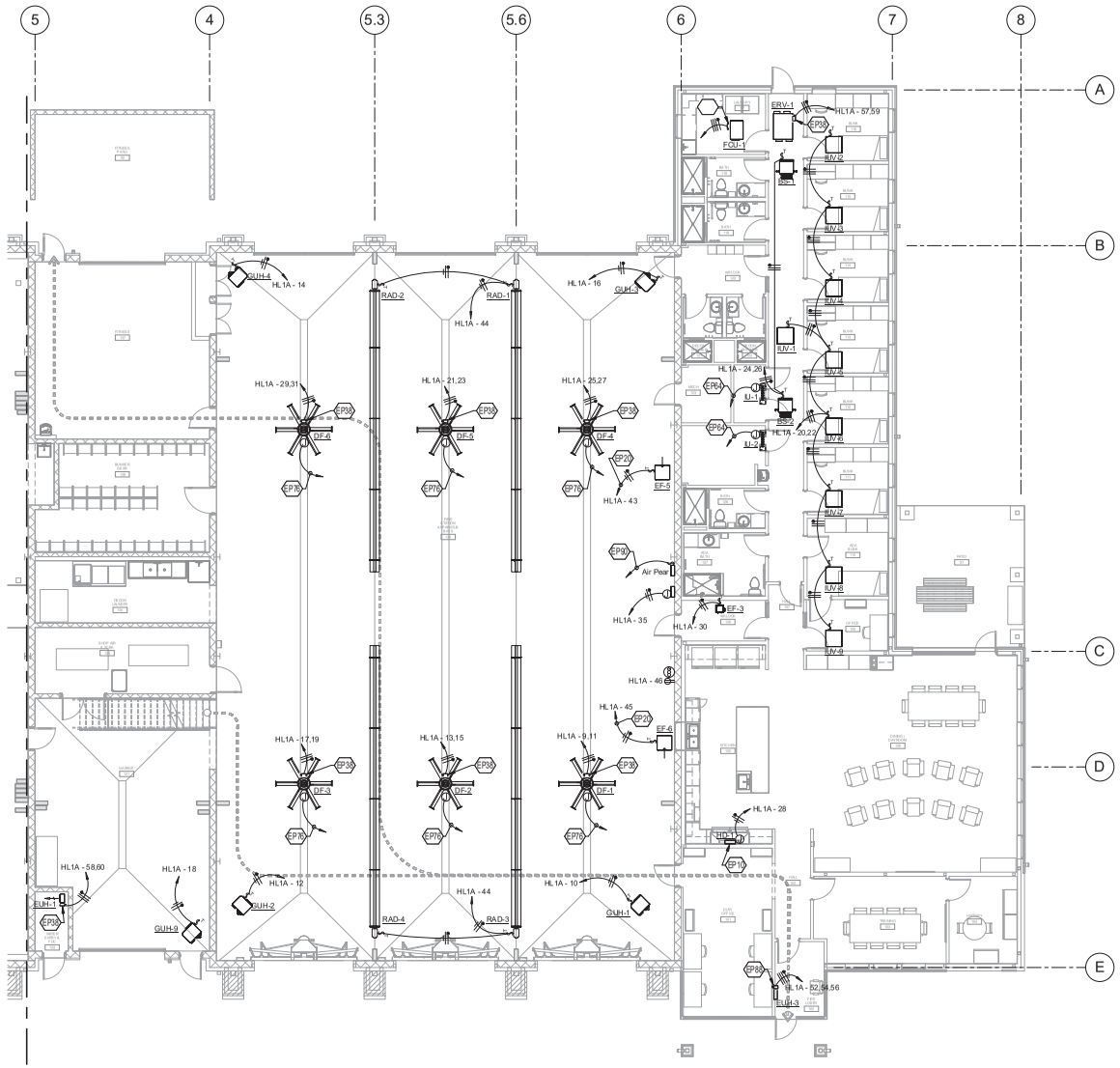

1 MECHANICAL EQUIPTMENT ELECTRICAL PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

PN

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

KEYNOTES

EP10 MAKE CONNECTION TO RANGE HOOD AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP20 PROVIDE (2)#10 AND (1)#10 GROUND IN 3/4" CONDUIT.

EP38 PROVIDE A 30 AMP, 240V, 2 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP64 INSTALL REQUIRED CONTROL CONDUCTORS IN 1/2" CONDUIT TO RESPECTIVE CONDENSING UNIT. CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP76 MAKE CONNECTION TO FAN SPEED CONTROLLER AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

EP88 PROVIDE A 30 AMP, 240 VOLT, 3 POLE, NEMA 1 FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

EP90 MAKE CONNECTION TO DESTRAT FAN VARIABLE SPEED SWITCH AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: SMR/WMB
DRAWN BY: RJO
DESIGNED BY: WMB
PROJECT NUMBER: 20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL PLAN - FIRE STATION MECHANICAL EQUIPTMENT

SHEET ID:
EP105

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/23/2026 10:17:20 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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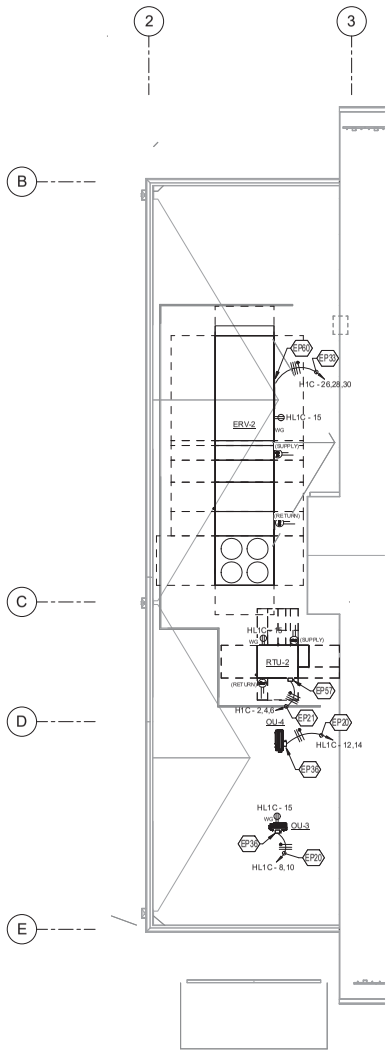
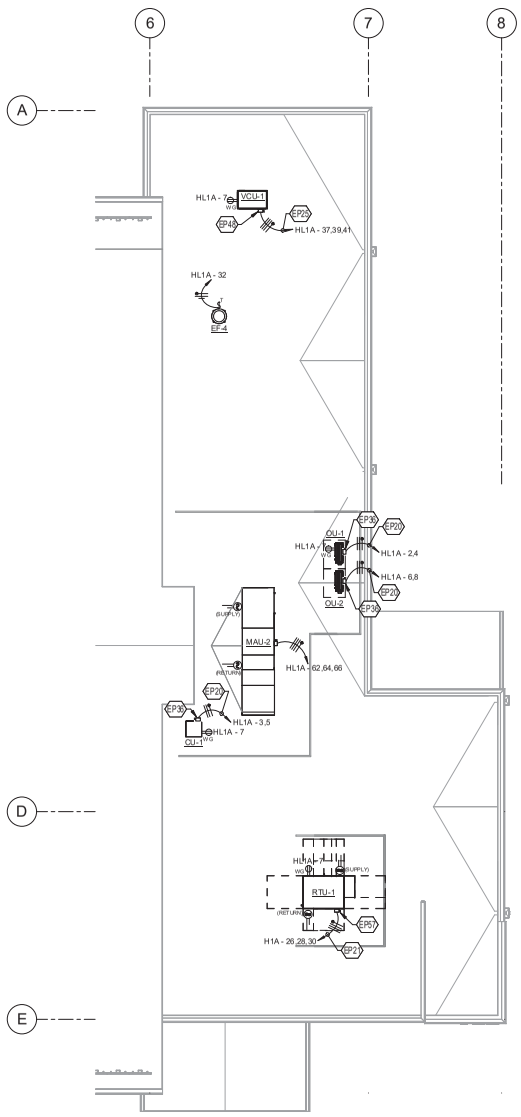


2 ELECTRICAL PLAN - LOGISTICS ROOF

SCALE: 1/8" = 1'-0"



1 ELECTRICAL PLAN - FIRE STATION ROOF

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

F. ALL CONDUCTORS SHALL BE #10 UNLESS OTHERWISE INDICATED.

KEYNOTES

EP20 PROVIDE (2)#10 AND (1)#10 GROUND IN 3/4" CONDUIT.
EP21 PROVIDE (3)#10 AND (1)#10 GROUND IN 3/4" CONDUIT.
EP25 PROVIDE (3)#6 AND (1)#10 GROUND IN 3/4" CONDUIT.
EP33 PROVIDE (3)#1/0 AND (1)#6 GROUND IN 1 1/2" CONDUIT.
EP36 PROVIDE A 30 AMP, 240V, 2 POLE, NEMA 3R FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED 125% OF UNIT RATED FULL LOAD AMPS.
EP48 PROVIDE A 60 AMP, 240V, 3 POLE, NEMA 3R FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED 125% OF UNIT RATED FULL LOAD AMPS.
EP57 PROVIDE A 30 AMP, 600V, 3 POLE, NEMA 3R FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED 125% OF UNIT RATED FULL LOAD AMPS.
EP60 PROVIDE A 200 AMP, 600V, 3 POLE, NEMA 3R FUSIBLE DISCONNECT SWITCH. FUSE SWITCH WITH BUSSMAN FUSETRONS SIZED PER MANUFACTURERS RECOMMENDATIONS.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	206110040000

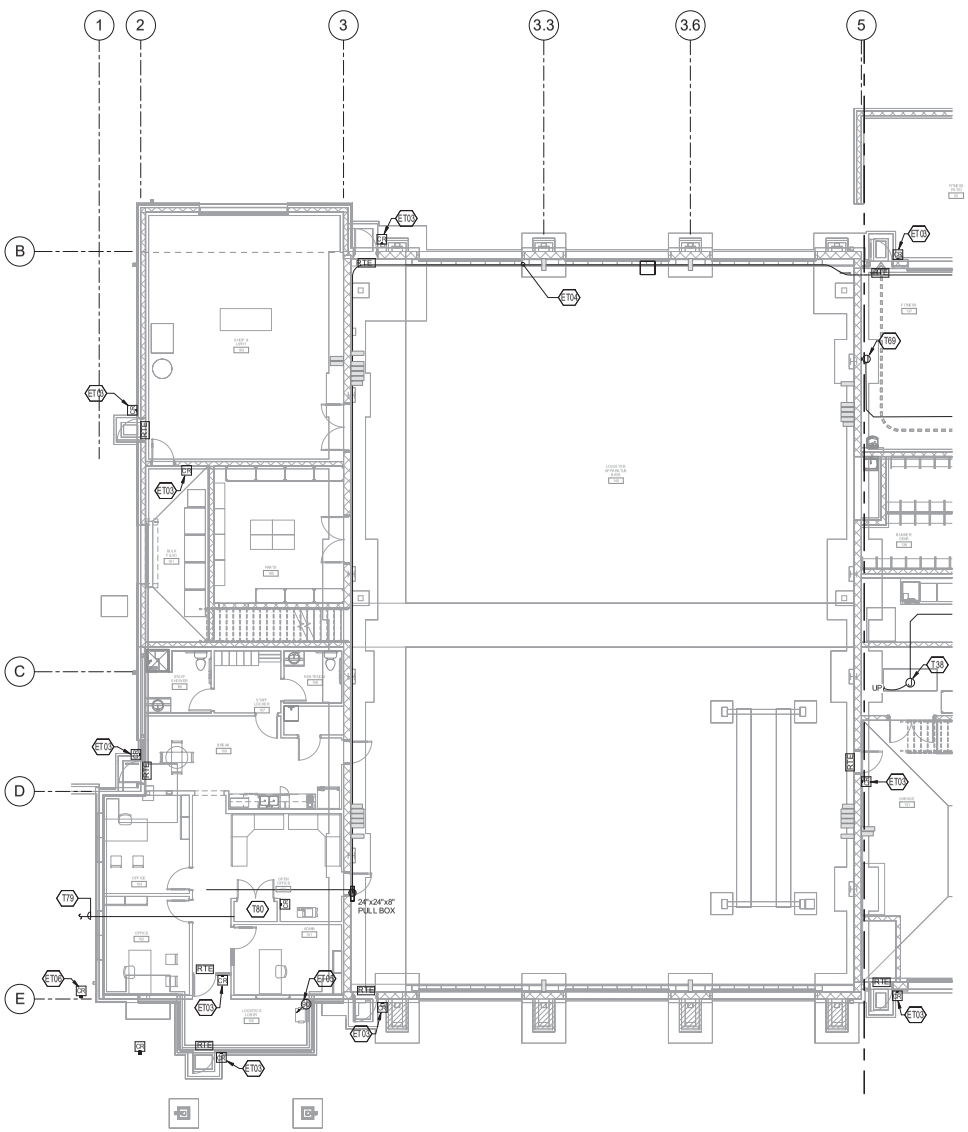
SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL PLAN - MECHANICAL EQUIPTMENT ROOF

SHEET ID:
EP121

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/23/2026 10:17:21 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:21 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



PN

A1 SPECIAL SYSTEMS 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

F. FIRE ALARM DEVICES ARE INDICATED FOR REFERENCE ONLY. IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM.

G. ALL ALERT SYSTEM CONDUITS SHALL BE 3/4" WITH PULLSTRING UNLESS OTHERWISE INDICATED.

H. FOR ACCESS CONTROL SYSTEM RISER DIAGRAM, SEE SHEET T-602.

KEYNOTES

ET03 CARD READER, REQUEST TO EXIT, ELECTRIC STRIKE.
ET04 1-4" CONDUIT TO IT ROOM FOR ALERTING SYSTEM CABLING.
ET05 90 DEGREE CAMERA.
ET06 CARD READER AT PEDESTRIAN GATE.
T38 PROVIDE A HOFFMAN 8"X10"X4" SURFACE MOUNT BACKBOX FOR ALERT EQUIPMENT. BOX TO BE PENDANT MOUNTED TO 12'-0" A.F.F. INSTALL WITH OPEN FACE OF BOX DOWN. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM BOX TO ACCESSIBLE CEILING AND STUBOUT.
T69 INSTALL BACKBOX, PROVIDED BY OTHERS, VERTICALLY AT 6'-0" TO BOTTOM OF BOX FOR CONNECTION OF FIRST IN SYSTEM STROBE LIGHT.
T79 UNDERGROUND CONDUIT WITH CABLES FOR CARD READER AT VEHICLE GATE.
T80 FOR ACCESS CONTROL EQUIPMENT, SEE DETAIL 1 ON SHEET T-401.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: K.COOPER
DRAWN BY: E.COOPER
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

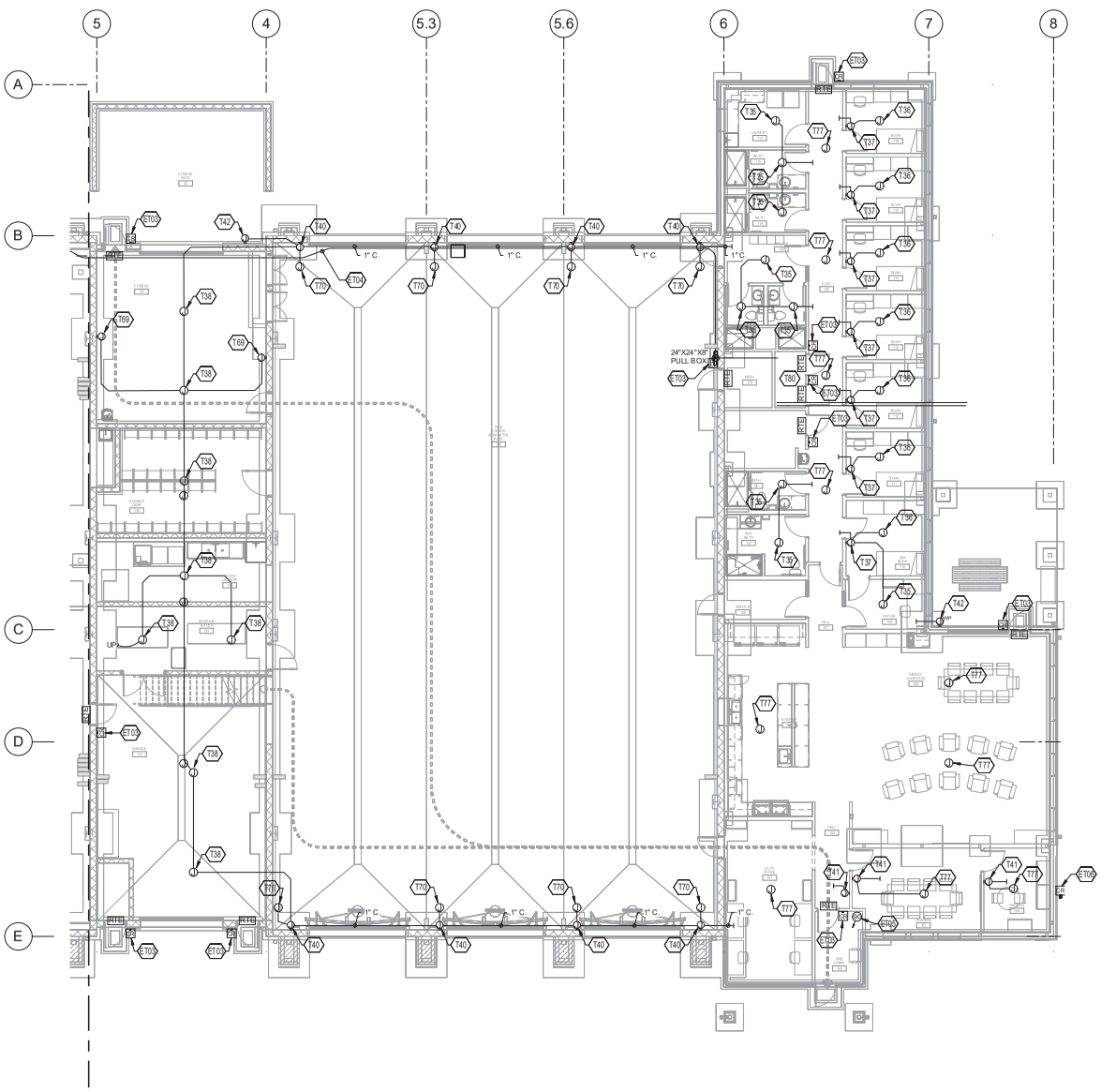
SEAL:
COLORADO LICENSED
SUMMIL FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
SPECIAL SYSTEMS SECTOR PLANS - LOGISTICS

SHEET ID:
ET101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/23/2026 10:17:22 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:22 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



N PN

A1 SPECIAL SYSTEMS 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

F. FIRE ALARM DEVICES ARE INDICATED FOR REFERENCE ONLY. IT IS THE INTENT OF THE SE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM.

G. ALL ALERT SYSTEM CONDUITS SHALL BE 3/4" WITH PULLSTRING UNLESS OTHERWISE INDICATED.

H. FOR ACCESS CONTROL SYSTEM RISER DIAGRAM, SEE SHEET T-602.

KEYNOTES

ET03 CARD READER, REQUEST TO EXIT, ELECTRIC STRIKE.
ET04 1-4" CONDUIT TO IT ROOM FOR ALERTING SYSTEM CABLING.
ET05 90 DEGREE CAMERA.
ET06 CARD READER AT PEDESTRIAN GATE.
T35 INSTALL A HOFFMAN 8"X10"X4" RECESSED BACKBOX, PROVIDED BY OTHERS, FOR ALERT EQUIPMENT. BOX TO BE RECESSED IN SHEETROCK CEILING 1/4" BEHIND SHEETROCK FACE. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM BOX TO ACCESSIBLE CEILING AND STUBOUT.
T36 INSTALL DORM LIGHT BACKBOX CEILING MOUNT KIT PROVIDED BY OTHERS. INSTALL IN CENTER OF ROOM AT THE FOOT OF THE BED. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM DORM LIGHT TO DORM REMOTE BACKBOX.
T37 PROVIDE A HOFFMAN 8"X10"X4" RECESSED BACKBOX FOR DORM REMOTE. BOX TO BE RECESSED IN SHEETROCK WALL 1/4" BEHIND SHEETROCK FACE 48" AFF TO CENTER. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM BOX TO ACCESSIBLE CEILING AND STUBOUT.
T38 PROVIDE A HOFFMAN 8"X10"X4" SURFACE MOUNT BACKBOX FOR ALERT EQUIPMENT. BOX TO BE PENDANT MOUNTED TO 12'-0" AFF. INSTALL WITH OPEN FACE OF BOX DOWN. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM BOX TO ACCESSIBLE CEILING AND STUBOUT.
T40 PROVIDE HOFFMAN 8"X10"X4" RECESSED BACKBOX WITH COVER FOR ALERT APPARATUS BAY SPEAKER. BOX TO BE RECESSED IN WALL 12'-0" AFF WITH 10" SIDE HORIZONTAL. PROVIDE A 4" SQUARE RECESSED BOX AT 12'-0" AFF. PROVIDE 1" CONDUIT BETWEEN ALL BOXES.
T41 PROVIDE A 4" SQUARE, SINGLE GANG JUNCTION BOX 48" AFF FOR ALERT BUTTON/SWITCH. EXTEND A 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE AND STUBOUT.
T42 PROVIDE A 4" SQUARE, SINGLE GANG JUNCTION BOX FLUSH MOUNTED IN WALL 10'-0" AFF. EXTEND A 1" CONDUIT FROM 4" BOX TO A 8"X10"X4" BOX FOR ALERT EXTERIOR SPEAKER. EXTEND A 1" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE AND STUBOUT.
T69 INSTALL BACKBOX, PROVIDED BY OTHERS, VERTICALLY AT 6'-0" TO BOTTOM OF BOX FOR CONNECTION OF FIRST IN SYSTEM STROBE LIGHT.
T70 INSTALL BACKBOX, PROVIDED BY OTHERS, VERTICALLY AT 10'-0" TO BOTTOM OF BOX FOR CONNECTION OF FIRST IN SYSTEM STROBE LIGHT.
T77 PROVIDE A HOFFMAN 8"X10"X4" BACKBOX FLUSH MOUNTED IN CEILING FOR ALERT EQUIPMENT. PROVIDE WITH WESTNET #S-SATKIT-A MOUNTING KIT. INSTALL WITH OPEN FACE OF BOX DOWN. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM BOX TO ACCESSIBLE CEILING AND STUBOUT.
T80 FOR ACCESS CONTROL EQUIPMENT, SEE DETAIL 1 ON SHEET T-401.

8 0 8 16
SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
DRAWN BY:	ECOOPER
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMMIL FAGLER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
SPECIAL SYSTEMS SECTOR PLANS - FIRE STATION

SHEET ID:
ET102

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
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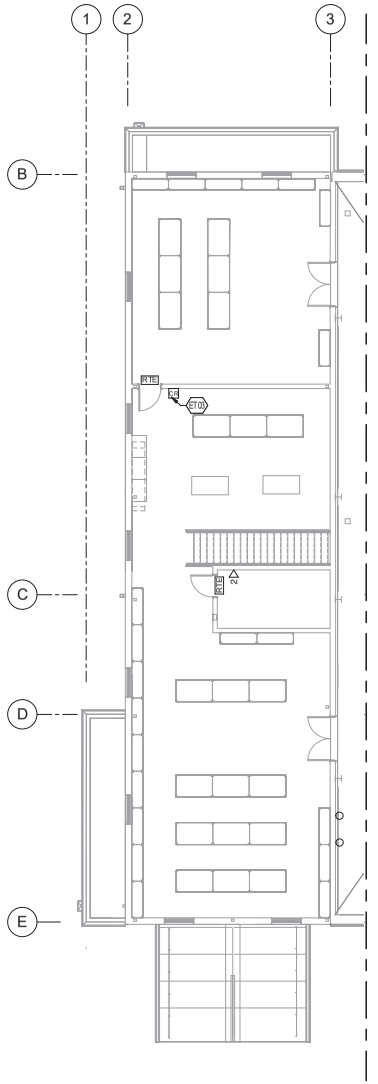
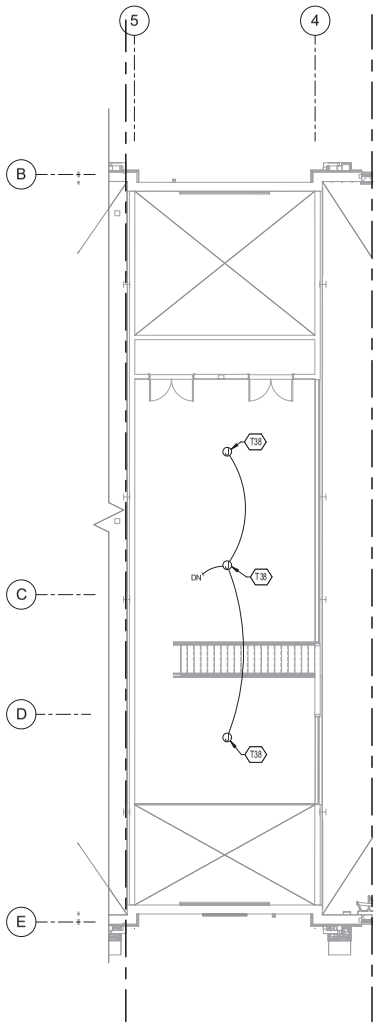


SPECIAL SYSTEMS - LOGISTICS MEZZANINE

2 SCALE: 1/8" = 1'-0"



SPECIAL SYSTEMS - FIRE STATION MEZZANINE

1 SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

F. FIRE ALARM DEVICES ARE INDICATED FOR REFERENCE ONLY. IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM.

G. ALL ALERT SYSTEM CONDUITS SHALL BE 3/4" WITH PULLSTRING UNLESS OTHERWISE INDICATED.

H. FOR ACCESS CONTROL SYSTEM RISER DIAGRAM, SEE SHEET T-602.

KEYNOTES

ET03 CARD READER, REQUEST TO EXIT, ELECTRIC STRIKE.

T38 PROVIDE A HOFFMAN 8"X10"X4" SURFACE MOUNT BACKBOX FOR ALERT EQUIPMENT. BOX TO BE PENDANT MOUNTED TO 12'-0" AFF. INSTALL WITH OPEN FACE OF BOX DOWN. EXTEND A 3/4" CONDUIT WITH PULLSTRING FROM BOX TO ACCESSIBLE CEILING AND STUBOUT.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
DRAWN BY:	ECOOPER
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
SPECIAL SYSTEMS SECTOR PLANS - FIRE STATION AND LOGISTICS MEZZANINE

SHEET ID:
ET103

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/23/2026 10:17:25 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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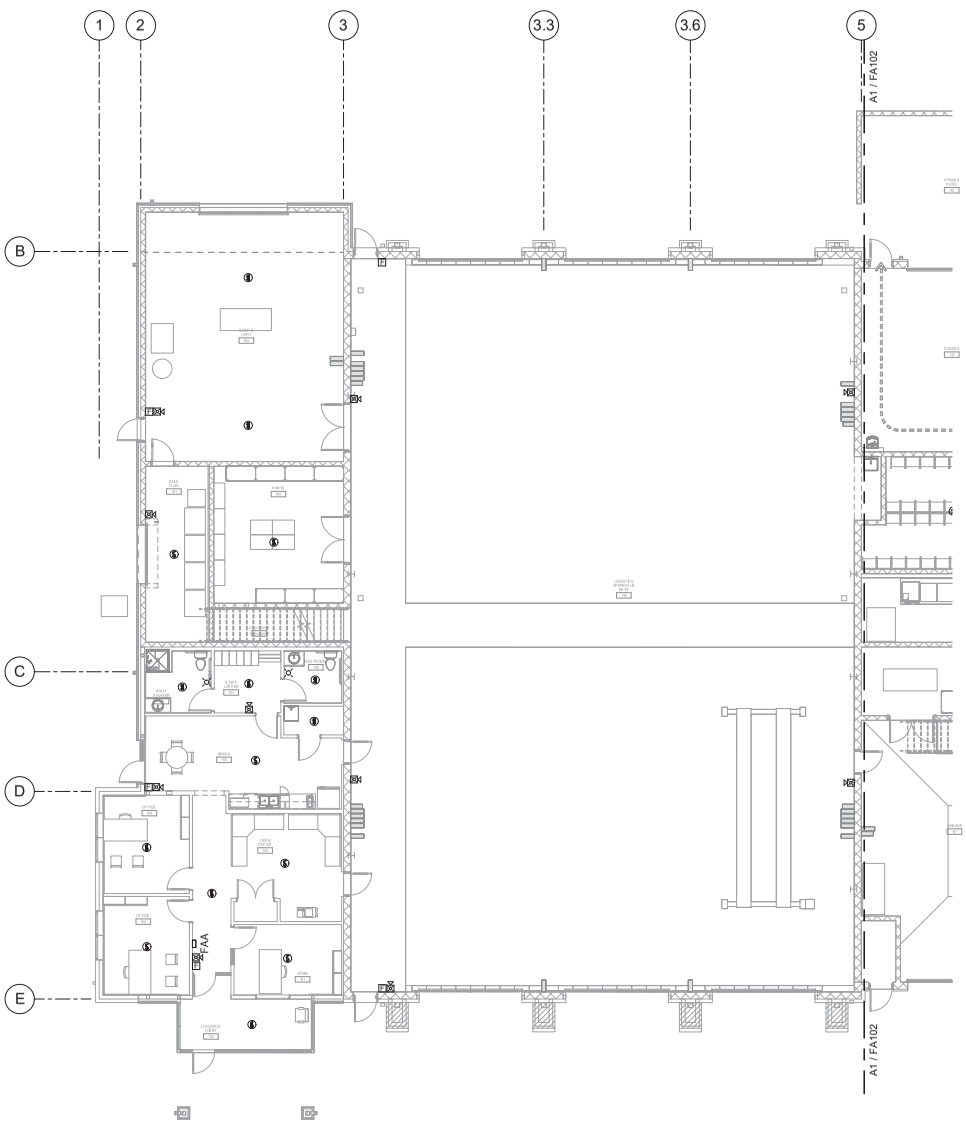

PN

A1 FIRE ALARM 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6,ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

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G. ALL CEILING MOUNTED FIRE ALARM DETECTORS SHALL BE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS.

H. ALL FIRE ALARM CABLE INSTALLED IN EXPOSED CEILING AREAS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PAINTED A COLOR AS SELECTED BY THE ARCHITECT.

KEYNOTES

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
FIRE ALARM SECTOR PLANS - LOGISTICS

SHEET ID:
FA101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
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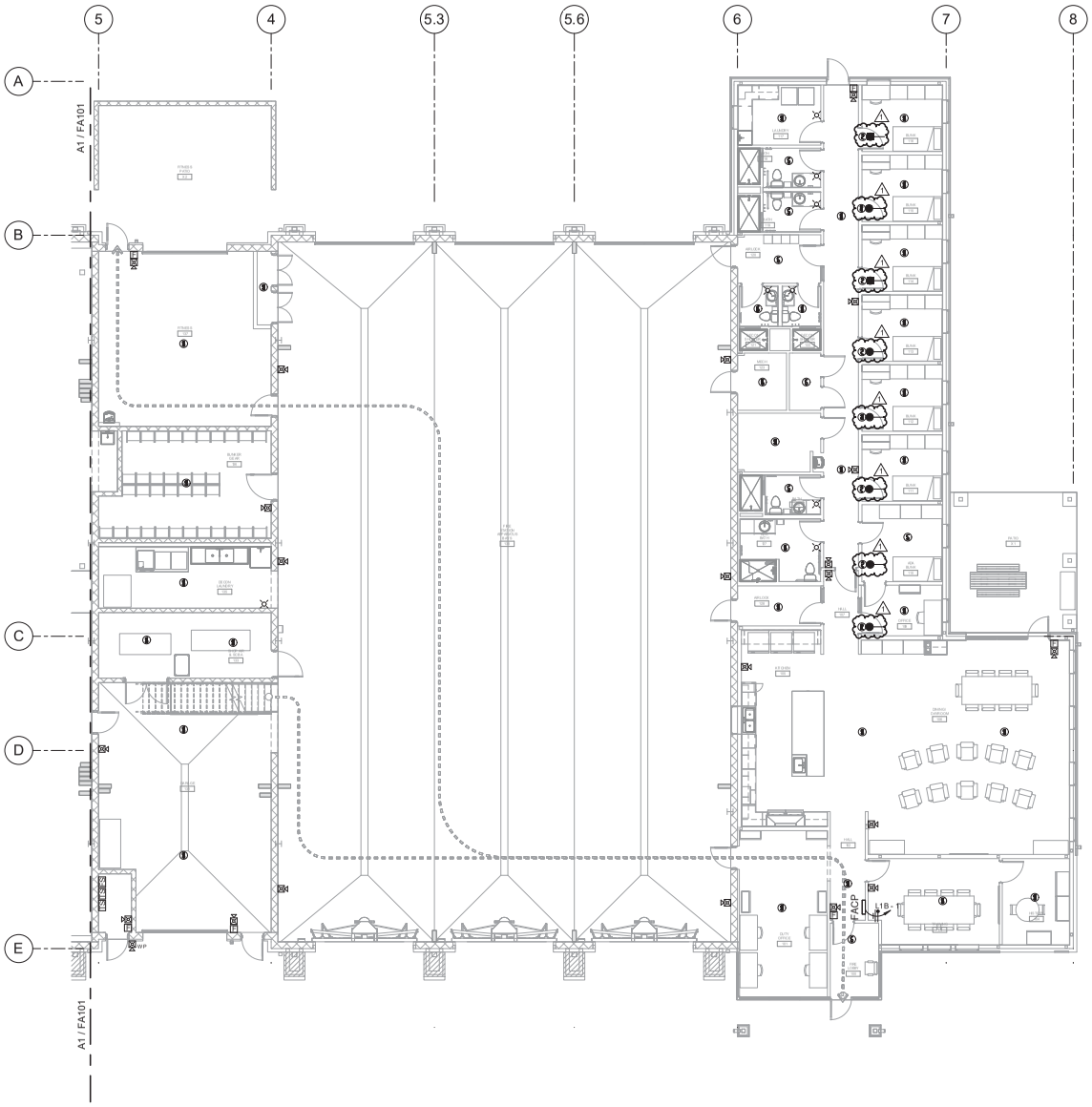

PN

A1 FIRE ALARM 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6,ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

F. FIRE ALARM DEVICES ARE INDICATED FOR REFERENCE ONLY. IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM.

G. ALL CEILING MOUNTED FIRE ALARM DETECTORS SHALL BE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS.

H. ALL FIRE ALARM CABLE INSTALLED IN EXPOSED CEILING AREAS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PAINTED A COLOR AS SELECTED BY THE ARCHITECT.

KEYNOTES

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
FIRE ALARM SECTOR PLANS - FIRE STATION

SHEET ID:
FA102

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
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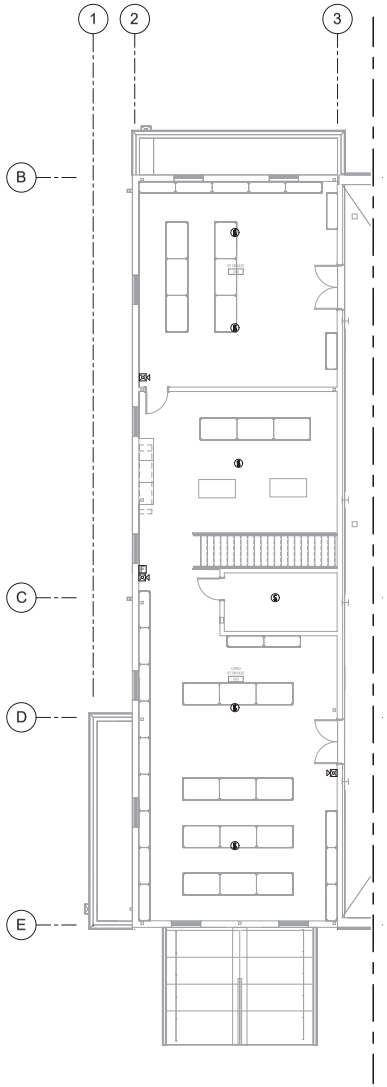
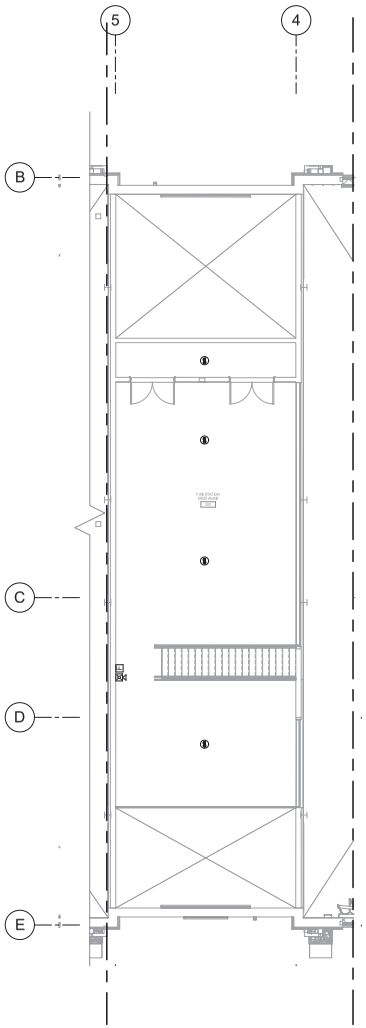


2 FIRE ALARM - LOGISTICS MEZZANINE

SCALE: 1/8" = 1'-0"



1 FIRE ALARM - FIRE STATION MEZZANINE

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6,ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

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G. ALL CEILING MOUNTED FIRE ALARM DETECTORS SHALL BE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS.

H. ALL FIRE ALARM CABLE INSTALLED IN EXPOSED CEILING AREAS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PAINTED A COLOR AS SELECTED BY THE ARCHITECT.

KEYNOTES

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

SEAL:
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SUMMIT FAGELER
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PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
FIRE ALARM SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET ID:
FA103

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947
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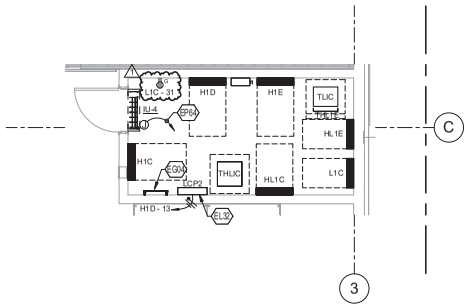
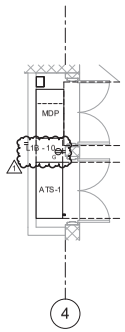


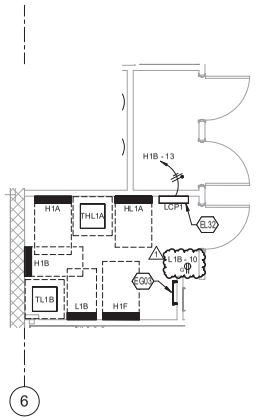
3 ELECTRICAL ROOM - LOGISTICS

SCALE: 1/4" = 1'-0"



1 MAIN ELECTRICAL GEAR CLOSET - FIRE STATION

SCALE: 1/4" = 1'-0"



2 ELECTRICAL & TELECOM ROOMS - FIRE STATION

SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO TYPICAL CIRCUIT WIRING DIAGRAM, DETAIL 4, ON SHEET E501.

B. REFER TO TYPICAL ELECTRICAL COMPONENT MOUNTING HEIGHTS, DETAIL 6, ON SHEET E501.

C. PROVIDE BRANCH CIRCUIT LABELING ON ALL DEVICE PLATES.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE A "BOX WALK" WITH OWNER PRIOR TO CONDUIT SYSTEM ROUGH-IN.

E. BOXES SHALL NOT BE INSTALLED BACK TO BACK. ALL BOXES SHALL BE INSTALLED IN SEPARATE STUD CAVITIES.

KEYNOTES

EG03 PROVIDE A NEW GROUND PLATE "MGB" IN ROOM. EXTEND 1#6 GROUND TO NEAREST BUILDING STEEL AND BOND. REFER TO SHEET E??? FOR DETAIL.

EG04 PROVIDE A NEW GROUND PLATE "FGB" IN ROOM. EXTEND 1#6 GROUND TO NEAREST BUILDING STEEL AND BOND. REFER TO SHEET E??? FOR DETAIL.

EL32 PROVIDE A WATTSTOPPER #LP8S-8-115/EM-24A2/AS-100-W LIGHTING CONTROL PANEL.

EP64 INSTALL REQUIRED CONTROL CONDUCTORS IN 1/2" CONDUIT TO RESPECTIVE CONDENSING UNIT. CONNECT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

SEAL:

COLORADO LICENSED
SUMMIT FAGELER
64223
PROFESSIONAL ENGINEER

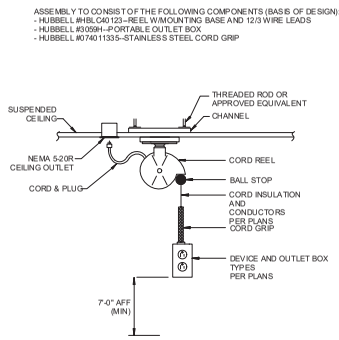
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ENLARGED ELECTRICAL PLAN

SHEET ID:
E-401

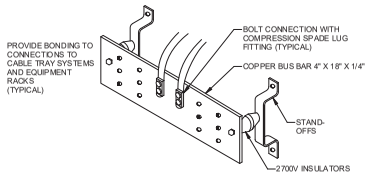
PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/23/2026 10:17:30 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:30 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



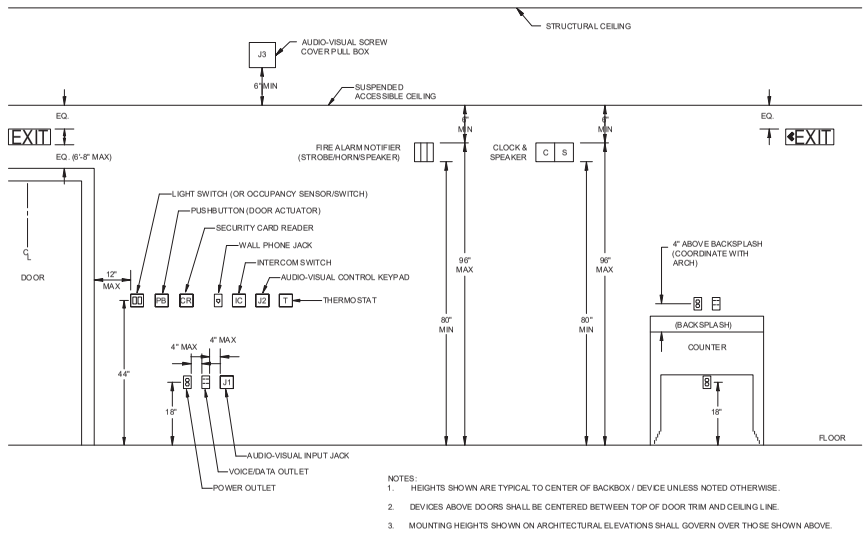
3 POWER CORD REEL DETAIL

SCALE: N.T.S.



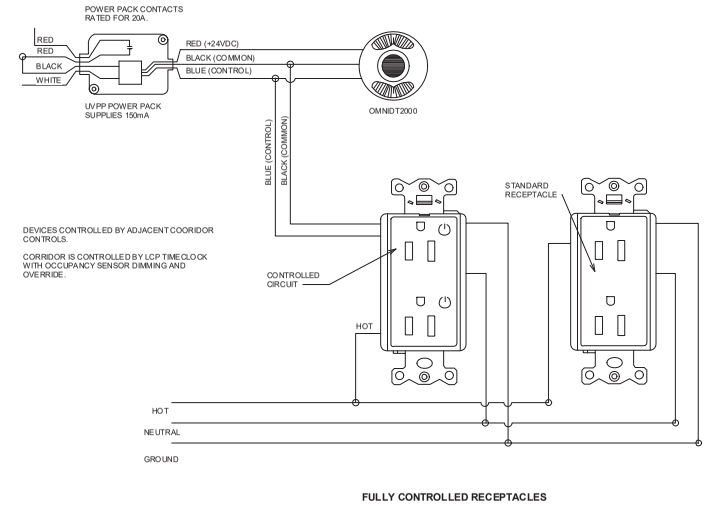
4 GROUND BUS BAR

SCALE: N.T.S.



1 TYPICAL DEVICE MOUNTING DETAIL

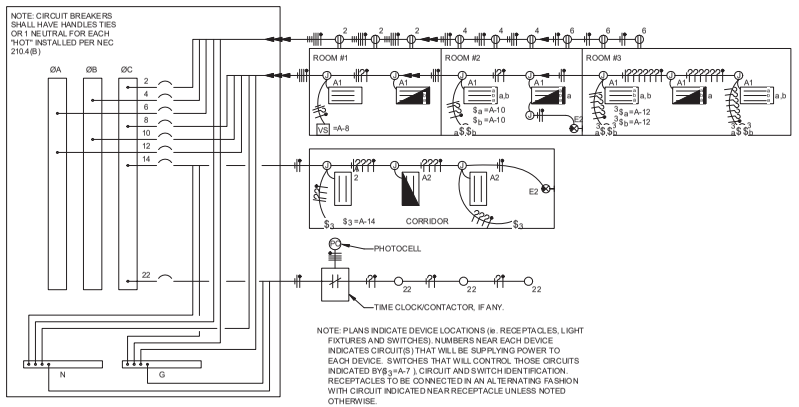
SCALE: N.T.S.



FULLY CONTROLLED RECEPTACLES

5 CONTROLLED RECEPTACLE WIRING DIAGRAM.

SCALE: NONE



2 TYPICAL CIRCUIT CONNECTION DIAGRAM (EM BATTERY PACK)

SCALE: NONE

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
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SEAL:
COLORADO LICENSED
SUMMIT FAGLER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL DETAIL SHEET

SHEET ID:
E-501

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/23/2026 10:17:30 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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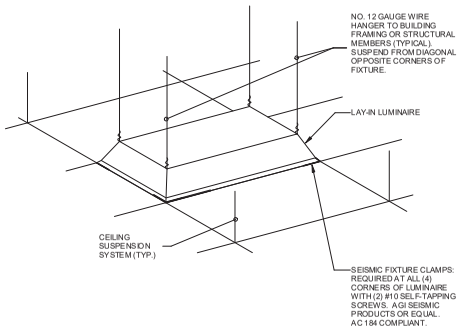
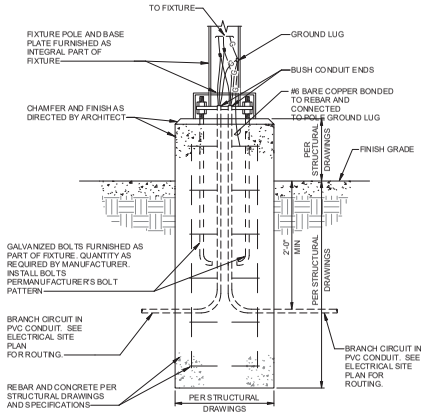


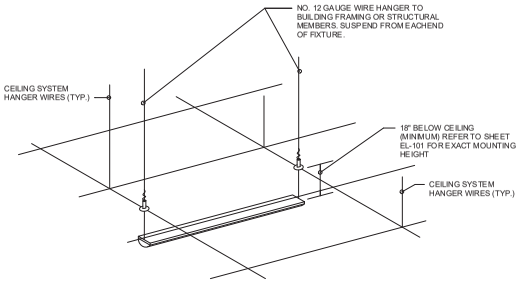
3 LAY-IN LUMINAIRE SUPPORT DETAIL

SCALE: N.T.S.



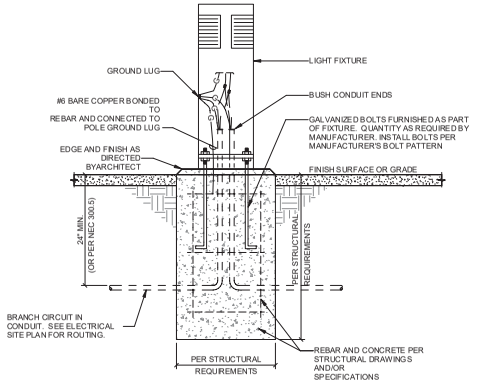
1 EXTERIOR LUMINAIRE POLE CONNECTION DETAIL

SCALE: N.T.S.



4 LINEAR DIRECT-INDIRECT SUPPORT DETAIL

SCALE: N.T.S.



2 BOLLARD FIXTURE MOUNTING

SCALE: N.T.S.

8 0 8 16

SCALE: 1/8" = 1'-0"

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

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64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL DETAIL SHEET

SHEET ID:
E-502

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/23/2026 10:17:31 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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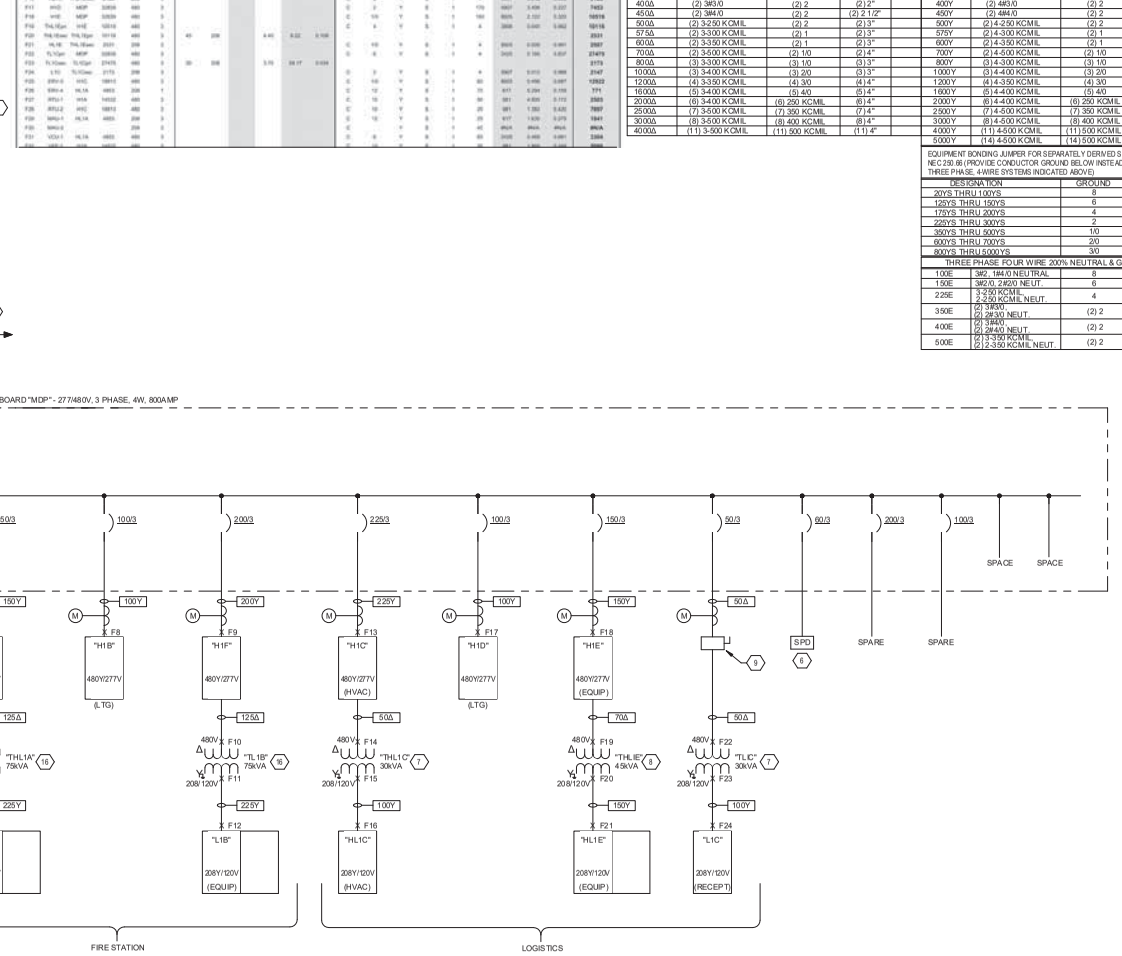

1 ELECTRICAL ONE LINE DIAGRAM

SCALE: NOT TO SCALE

FAULT CURRENT CALCULATIONS

COPPER FEEDER SCHEDULE

NOTE: ALL CONDUCTORS ARE COPPER, TYPE THWN/THHN UNLESS OTHERWISE NOTED.

DESIGNATION	CONDUCTORS	GROUND	CONDUIT	NOTES	DESIGNATION	CONDUCTORS	GROUND	CONDUIT	NOTES
THREE PHASE THREE WIRE & GROUND FEEDER					THREE PHASE FOUR WIRE & GROUND FEEDER				
20Δ	3#12	12	3/4"		20Y	4#12	12	3/4"	
25Δ	3#10	10	3/4"		25Y	4#10	10	3/4"	
30Δ	3#10	10	3/4"		30Y	4#10	10	3/4"	
35Δ	3#8	10	3/4"		35Y	4#8	10	3/4"	
40Δ	3#8	10	3/4"		40Y	4#8	10	3/4"	
45Δ	3#8	10	3/4"		45Y	4#8	10	3/4"	
50Δ	3#8	10	3/4"		50Y	4#8	10	3/4"	
60Δ	3#6	10	1"		60Y	4#6	10	1"	
70Δ	3#4	8	1 1/4"		70Y	4#4	8	1 1/4"	
80Δ	3#4	8	1 1/4"		80Y	4#4	8	1 1/4"	
90Δ	3#2	8	1 1/4"		90Y	4#2	8	1 1/4"	
100Δ	3#2	8	1 1/4"		100Y	4#2	8	1 1/4"	
125Δ	3#1/0	6	1 1/2"		125Y	4#1/0	6	1 1/2"	
150Δ	3#1/0	6	1 1/2"		150Y	4#1/0	6	2"	
175Δ	3#2/0	6	2"		175Y	4#2/0	6	2"	
200Δ	3#3/0	6	2"		200Y	4#3/0	6	2"	
225Δ	3#4/0	4	2 1/2"		225Y	4#4/0	4	2 1/2"	
250Δ	3-250 KCMIL	4	3"		250Y	4-250 KCMIL	4	3"	
300Δ	3-350 KCMIL	4	3"		300Y	4-350 KCMIL	4	3"	
350Δ	3-500 KCMIL	2	4"		350Y	4-500 KCMIL	2	4"	
400Δ	(2) 3#3/0	(2) 2	(2) 2"		400Y	(2) 4#3/0	(2) 2	(2) 2"	
450Δ	(2) 3#4/0	(2) 2	(2) 2 1/2"		450Y	(2) 4#4/0	(2) 2	(2) 2 1/2"	
500Δ	(2) 3-250 KCMIL	(2) 2	(2) 3"		500Y	(2) 4-250 KCMIL	(2) 2	(2) 3"	
575Δ	(2) 3-300 KCMIL	(2) 1	(2) 3"		575Y	(2) 4-300 KCMIL	(2) 1	(2) 3"	
600Δ	(2) 3-350 KCMIL	(2) 1	(2) 3"		600Y	(2) 4-350 KCMIL	(2) 1	(2) 3"	
700Δ	(2) 3-500 KCMIL	(2) 1/0	(2) 4"		700Y	(2) 4-500 KCMIL	(2) 1/0	(2) 4"	
800Δ	(3) 3-300 KCMIL	(3) 1/0	(3) 3"		800Y	(3) 4-300 KCMIL	(3) 1/0	(3) 3"	
1000Δ	(3) 3-400 KCMIL	(3) 2/0	(3) 3"		1000Y	(3) 4-400 KCMIL	(3) 2/0	(3) 3"	
1200Δ	(4) 3-350 KCMIL	(4) 3/0	(4) 4"		1200Y	(4) 4-350 KCMIL	(4) 3/0	(4) 4"	
1600Δ	(5) 3-400 KCMIL	(5) 4/0	(5) 4"		1600Y	(5) 4-400 KCMIL	(5) 4/0	(5) 4"	
2000Δ	(6) 3-400 KCMIL	(6) 250 KCMIL	(6) 4"		2000Y	(6) 4-400 KCMIL	(6) 250 KCMIL	(6) 4"	
2500Δ	(7) 3-500 KCMIL	(7) 350 KCMIL	(7) 4"		2500Y	(7) 4-500 KCMIL	(7) 350 KCMIL	(7) 4"	
3000Δ	(8) 3-500 KCMIL	(8) 400 KCMIL	(8) 4"		3000Y	(8) 4-500 KCMIL	(8) 400 KCMIL	(8) 4"	
4000Δ	(11) 3-500 KCMIL	(11) 500 KCMIL	(11) 4"		4000Y	(11) 4-500 KCMIL	(11) 500 KCMIL	(11) 4"	
					5000Y	(14) 4-500 KCMIL	(14) 500 KCMIL	(14) 4"	

EQUIPMENT BONDING JUMPER FOR SEPARATELY DERIVED SYSTEMS PER NEC 250.66 (PROVIDE CONDUCTOR GROUND BELOW INSTEAD OF FEEDER GROUND FOR THREE PHASE, 4-WIRE SYSTEMS INDICATED ABOVE)

DESIGNATION	GROUND
20YS THRU 100YS	8
125YS THRU 150YS	6
175YS THRU 200YS	4
225YS THRU 300YS	2
350YS THRU 500YS	1/0
600YS THRU 700YS	2/0
800YS THRU 5000YS	3/0

THREE PHASE FOUR WIRE 200% NEUTRAL & GROUND FEEDER			
100E	3#2, 1#4/0 NEUTRAL	8	2"
150E	3#2/0, 2#2/0 NEUT.	6	2"
225E	3-250 KCMIL, 2-250 KCMIL NEUT.	4	2 1/2"
350E	(2) 3#3/0, (2) 2#3/0 NEUT.	(2) 2	(2) 2 1/2"
400E	(2) 3#4/0, (2) 2#4/0 NEUT.	(2) 2	(2) 2 1/2"
500E	(2) 3-350 KCMIL, (2) 2-350 KCMIL NEUT.	(2) 2	(2) 3"

GENERAL SHEET NOTES

A. VOLTAGE DROP ACROSS SERVICE ENTRANCE FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL NOT EXCEED 5% PER IECC SECTION C405.10.

B. A FINAL COMMISSIONING REPORT SHALL BE DELIVERD TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

C. ALL 120/208V BRANCH PANELBOARDS SHALL BE PROVIDED WITH SURGE PROTECTIVE DEVICE. SOUTHERN TIER #XXXXXXXXXXXXXXX.

D. ALL 277/480V BRANCH PANELBOARDS SHALL BE PROVIDED WITH SURGE PROTECTIVE DEVICE. SOUTHERN TIER #XXXXXXXXXXXXXXX.

E. DIGITAL METERING SYSTEM SOFTWARE TO INTEGRATE ALL ELECTRICAL LOAD METERING. SOFTWARE TO HAVE THE ABILITY TO CREATE MONTHLY BILLING STATEMENTS. BASIS OF DESIGN TO BE eGAUGE SYSTEMS.

F. PROVIDE DIGITAL METER ALONG WITH CT'S AND ASSOCIATED ACCESSORIES FOR RECEPTACLE PANELBOARDS "L1A" AND "L1C" FOR HVAC PANELBOARDS "H1A" AND "H1C" LIGHTING PANELBOARDS "H1B" AND "H1D" EQUIPMENT PANELBOARDS "L1B" AND "H1E". METER SHALL HAVE CAPABILITY OF MULTI-POINT READING. PROVIDE CAT6 CABLE IN ½" CONDUIT TO ETHERNET SWITCH IN MAIN TELECOMM ROOM FOR REMOTE MONITORING. PROGRAM METER TO TIE INTO BUILDING FACILITY MANAGEMENT SYSTEM. METER SHALL BE POWERED INTERNALLY WITH A FUSE MOUNTED INSIDE THE EQUIPMENT. BASIS OF DESIGN TO BE eGAUGE SYSTEMS.

G. ALL CIRCUIT BREAKERS IN SWITCHBOARD SHALL BE 100% RATED "LSIG" TYPE.

H. ALL TWO SECTION PANELBOARDS SHALL BE IN A SINGLE 20" WIDE ENCLOSURE.

KEYNOTES

1. PROVIDE A 4" PRIMARY CONDUIT PER THE REQUIREMENTS OF CORE ELECTRIC COOP.
2. PAD MOUNT TRANSFORMER PROVIDED BY CORE ELECTRIC COOP.
3. PROVIDE EUSERC METERING EQUIPMENT AS PER THE REQUIREMENTS OF CORE ELECTRIC COOP. EUSERC CABINET SHALL BE PROVIDED WITH A PULLING SECTION. LUG LANDING KIT AND AN 800A/3P MAIN BREAKER IN A NEMA 3R ENCLOSURE. CIRCUIT BREAKER SHALL BE LABELED "SERVICE DISCONNECT".
4. FEEDER IS NOT TO INCLUDE AN EQUIPMENT GROUND CONDUCTOR.
5. PROVIDE A #4/0 GROUNDING ELECTRODE CONDUCTOR AS PER NEC 250.66.
6. PROVIDE A SOUTHERN TIER #T45277Y125AWAJIS SURGE PROTECTIVE DEVICE.
7. PROVIDE A 30KVA, 480V-208Y/120V DRY TYPE TRANSFORMER. PROVIDE A #6 SUPPLY SIDE GROUNDING ELECTRODE CONDUCTOR ON SECONDARY SIDE OF TRANSFORMER AS PER NEC 250.66.
8. PROVIDE A 45KVA, 480V-208Y/120V DRY TYPE TRANSFORMER. PROVIDE A #2/0 SUPPLY SIDE GROUNDING ELECTRODE CONDUCTOR ON SECONDARY SIDE OF TRANSFORMER AS PER NEC 250.66.
9. PROVIDE A 60 AMP, 600V, 3 POLE, NEMA 1 NON-FUSIBLE DISCONNECT SWITCH.
10. PROVIDE A 100 AMP, 600V, 3 POLE, NEMA 1 NON-FUSIBLE DISCONNECT SWITCH.
11. NOTE NOT USED".
12. PROVIDE A 600KW/750KVA, 277/480V, 3 PHASE, 4 WIRE DIESEL ENGINE GENERATOR. REFER TO SPECIFICATION 26 32 13 FOR ADDITIONAL REQUIREMENTS.
13. PROVIDE A 800 AMP, 277/480V, 4 POLE AUTOMATIC TRANSFER SWITCH IN A NEMA 1 ENCLOSURE. REFER TO SPECIFICATION 26 32 13 FOR ADDITIONAL REQUIREMENTS.
14. PROVIDE GEN SET/XFER SWITCH CONTROL CABLING IN 1" CONDUIT AS PER MANUFACTURERS INSTALLATION/WIRING DIAGRAMS.
15. CIRCUIT BREAKER SHALL BE PROVIDED WITH AN ARC FLASH REDUCTION MAINTENANCE SWITCH WITH SEPARATE WARNING INDICATOR LIGHT.
16. PROVIDE A 75KVA, 480V-208Y/120V DRY TYPE TRANSFORMER. PROVIDE A #2 SUPPLY SIDE GROUNDING ELECTRODE CONDUCTOR ON SECONDARY SIDE OF TRANSFORMER AS PER NEC 250.66.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	206110040 00

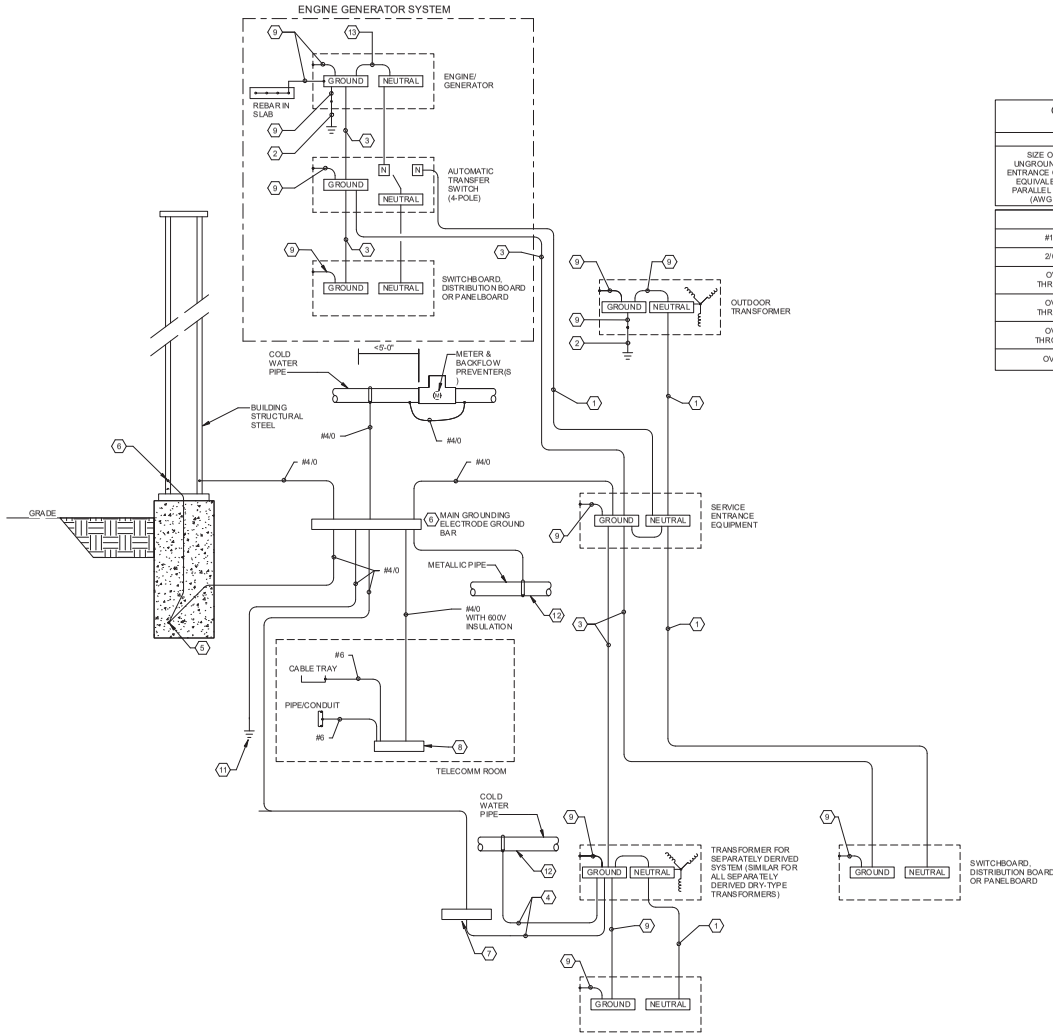
SEAL: COLORADO LICENSED, SUMNER FAGLER, 64223, PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL DIAGRAMS

SHEET ID:
E-601

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/23/2026 10:17:32 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:32 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



GROUNDING ELECTRODE CONDUCTOR SCHEDULE	
NOTE: ALL CONDUCTORS ARE COPPER.	
SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS. (AWG OR kCMIL)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG)
<= #2	8
#1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	SEE KEYED NOTE 15

GENERAL SHEET NOTES

A. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
B. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO SERVICE ENTRANCE EQUIPMENT GROUND BUS USING NEC TABLE 250.102 (C)(1).
C. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED EQUAL TO EQUIPMENT GROUNDING CONDUCTOR.
D. BOND ELECTRICAL EQUIPMENT ENCLOSURES TO GROUND BAR USING SAME SIZE CONDUCTOR AS FEEDER EQUIPMENT GROUND CONDUCTOR OR FACTORY PROVIDED GREEN SCREW.
E. CLEAN COATED RE-BAR PRIOR TO PERFORMING ELECTRICAL CONNECTIONS.

KEYNOTES

1. REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE FOR GROUNDED CONDUCTOR SIZE.
2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD.
3. FOR EQUIPMENT GROUNDING CONDUCTOR SIZE REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE.
4. PROVIDE GROUNDING ELECTRODE CONDUCTOR SIZE BASED ON THE CONDUCTOR SIZE OF THE SECONDARY OF THE TRANSFORMER. SIZE PER NEC 250.66 AND PER SCHEDULE ON THIS SHEET.
5. PROVIDE A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER #4/0 BARE COPPER CABLE OR #6 OR LARGER STEEL REINFORCING BARS MADE ELECTRICALLY CONTINUOUS USING EXOTHERMICALLY WELDED #4/0 JUMPERS.
6. PROVIDE A 1/4" X 4" X 12" "MAIN GROUNDING ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION.
7. USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVER CURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN SAME ROOM OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
8. INSTALL A 1/4" X 4" COPPER "TELECOMMUNICATIONS GROUNDING BUSBAR" IN EACH TELECOMMUNICATIONS ROOM. CONNECT CABLES TO THE "TELECOMMUNICATIONS GROUNDING BUSBAR" USING COMPRESSION SPADE LUGS. LABEL CONDUCTORS PER ANSI-J-STD-607-A. LABEL EACH CONNECTION. SEE PLAN FOR BAR LENGTH AND LOCATIONS.
9. BONDING JUMPER SIZED PER GROUNDING ELECTRODE CONDUCTOR SCHEDULE THIS SHEET.
10. BOND HOT WATER PIPE TO COLD WATER PIPE AT EACH WATER HEATER WITH A #8 BARE COPPER CONDUCTOR.
11. PROVIDE A GROUND ROD PER NEC 250.52.A.5.
12. BOND ALL METALLIC PIPING SYTEMS WITHIN STRUCTURE.
13. MAIN BONDING JUMPER AND/OR SYSTEM BONDING JUMPER SIZE BASED ON UNGROUNDED CONDUCTOR SIZE AND GROUNDING ELECTRODE CONDUCTOR SCHEDULE ON THIS SHEET UNLESS UNGROUNDED CONDUCTOR SIZE OR EQUIVALENT IS GREATER THAN 1100 KCMIL. IF GREATER THAN 1100 KCMIL (OR 1750 KCMIL FOR ALUMINUM) SIZE JUMPER PER NEC TABLE 250.102 (C)(1).

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB

PROJECT NUMBER:
20611004000

SEAL:
COLORADO LICENSED
SUMAIL FAGELER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
GROUNDING DIAGRAM

SHEET ID:
E-602

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6447 1/23/2026 10:17:33 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME:	LCP1
PART NUMBER:	LMCP8-115/277-8HD
LOCATION:	ELECTRICAL ROOM - FIRE STATION
MOUNTING:	SURFACE
PANEL POWER CIRCUIT #:	H1B-13

RELAY #	CIRCUIT #	SWITCHLEG	VOLTAGE	DESCRIPTION	CONTROLS SW	PC	OS	EM	TC	NOTES*	PROGRAMMING GROUP # 1	2	3	4	5	6	7	8
1	H1B-15	–	277VAC	SITE LIGHTING		X		X	X	5								
2	H1B-4	–	277VAC	INTERIOR CORRIDOR/RESTROOM STEP LIGHTING		X			X	4								
3	H1B-17	–	277VAC	EXTERIOR MONUMENT SIGN AND FLAGPOLE LTG		X			X	4								
4		–	277VAC	SPARE		X		X	X	4								
5	H1B-19	–	277VAC	BOLLARD LIGHTING		X			X	5								
6	H1B-11	–	277VAC	EXTERIOR WALL LIGHTING		X			X	4								
7	H1B-12	–	277VAC	EXTERIOR BUILDING SIGNAGE		X			X	4								
8		–	277VAC	SPARE														
9	–	–	277VAC	SPARE														
10	–	–	277VAC	SPARE														
11	–	–	277VAC	SPARE														
12	–	–	277VAC	SPARE														

CONTROLS LEGEND:
SW = LOCAL LOW VOLTAGE SWITCH
PC = EXTERIOR PHOTOCELL
OS = DAYLIGHTING PHOTOSENSOR
EM = EMERGENCY LIGHING
TC = TIME CLOCK/TIME SCHEDULING

NOTE: SPACES DESIGNATED TO HAVE EM LOADS UTILIZE EM BYPASS DEVICES MOUNTED IN THE SPACE DOWNSTREAM OF ANY ADDITIONAL OCCUPANCY SENSORS AND/OR LINE VOLTAGE OVERRIDE SWITCHES.

NOTES:
A. VERIFIED TIMED EVENT FUNCTIONS W/OWNER PRIOR TO PROGRAMMING OF SYSTEM.
B. PROVIDE BLINK WARNING 5 MINUTES PRIOR TO TIME CLOCK OFF FUNCTION.
C. ALLOW FOR A 30 MINUTE MAX OVERRIDE WHERE SWITCHES ARE PROVIDED.

SCHEDULING:
1. MANUAL ON, TIME CLOCK OFF
2. TIME CLOCK ON, TIME CLOCK OFF
3. MANUAL ON, VACANCY SENSOR OFF
4. GLOBAL PHOTOSENSOR ON, TIME CLOCK OFF
5. AUTO DIMMED TIME BASED DIMMING

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME:	LCP2
PART NUMBER:	LMCP8-115/277-8HD
LOCATION:	ELECTRICAL ROOM - LOGISTICS
MOUNTING:	SURFACE
PANEL POWER CIRCUIT #:	H1D-13

RELAY #	CIRCUIT #	SWITCHLEG	VOLTAGE	DESCRIPTION	CONTROLS SW	PC	OS	EM	TC	NOTES*	PROGRAMMING GROUP # 1	2	3	4	5	6	7	8
1	H1B-7	–	277VAC	EXTERIOR WALL LIGHTING		X			X	4								
2	H1B-12	–	277VAC	BUILDING SIGNAGE		X			X	4								
3		–	277VAC	SPARE		X			X	4								
4		–	277VAC	SPARE		X		X	X	4								
5		–	277VAC	SPARE		X			X	2								
6		–	277VAC	SPARE		X			X	4								
7		–	277VAC	SPARE		X			X	2								
8		–	277VAC	SPARE														
9	–	–	277VAC	SPARE														
10	–	–	277VAC	SPARE														
11	–	–	277VAC	SPARE														
12	–	–	277VAC	SPARE														

CONTROLS LEGEND:
SW = LOCAL LOW VOLTAGE SWITCH
PC = EXTERIOR PHOTOCELL
OS = DAYLIGHTING PHOTOSENSOR
EM = EMERGENCY LIGHING
TC = TIME CLOCK/TIME SCHEDULING

NOTE: SPACES DESIGNATED TO HAVE EM LOADS UTILIZE EM BYPASS DEVICES MOUNTED IN THE SPACE DOWNSTREAM OF ANY ADDITIONAL OCCUPANCY SENSORS AND/OR LINE VOLTAGE OVERRIDE SWITCHES.

NOTES:
A. VERIFIED TIMED EVENT FUNCTIONS W/OWNER PRIOR TO PROGRAMMING OF SYSTEM.
B. PROVIDE BLINK WARNING 5 MINUTES PRIOR TO TIME CLOCK OFF FUNCTION.
C. ALLOW FOR A 30 MINUTE MAX OVERRIDE WHERE SWITCHES ARE PROVIDED.

SCHEDULING:
1. MANUAL ON, TIME CLOCK OFF
2. TIME CLOCK ON, TIME CLOCK OFF
3. MANUAL ON, VACANCY SENSOR OFF
4. GLOBAL PHOTOSENSOR ON, TIME CLOCK OFF
5. AUTO DIMMED TIME BASED DIMMING

LUMINAIRE SCHEDULE NOTES:
1. MANUFACTURERS CATALOG NUMBERS REPRESENT MANUFACTURER SERIES. SHOP DRAWING SUBMITTALS WILL INCLUDE ALL PART NUMBERS REPRESENTING ALL ITEMS OF THIS LUMINAIRE SCHEDULE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER LUMINAIRES TO INCLUDE ALL PARTS INDICATED ON SCHEDULE FOR EACH LUMINAIRE. SUBMITTAL WILL CALL OUT EACH PART CLEARLY.
2. LUMINAIRE REQUIRES MOUNTING COORDINATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS LUMINAIRE MAY REQUIRE A HIGHER OR LOWER MOUTING FROM THAT PROVIDED ON THIS SCHEDULE OR NOTES ON PLAN DUE TO ARCHITECTURAL REQUIREMENTS OR CONSTRUCTION CONDITIONS.
3. ALL LUMINAIRES ON THIS LUMINAIRE SCHEDULED ARE APPROVED FOR BID ON THIS PROJECT. IF A LUMINAIRE IS SUBMITTED THAT IS NOT ON THIS SCHEDULE IT WILL BE REJECTED.

LUMINAIRE SCHEDULE - CASTLE ROCK FIRE STATION #156

TYPE	DESCRIPTION	VOLTS	MOUNTING	COLOR/LUMENS	DRIVER	EM BAT. PK.	LENS	MANUFACTURER/MODEL NO.	VA	NOTES
A2F	24"X24" RECESSED ARCHITECTURAL LED TROFFER, STRAIGHT FLOATING CENTER, FLANGE MOUNT	UNV	CEILING RECESSED	3500K, 3414 LUMENS	0-10V DIMMING	NONE	ACRYLIC	COLUMBIA #LCAT22-35-ML-G-ED-U-FK22	30	
A2G	24"X24" RECESSED ARCHITECTURAL LED TROFFER, STRAIGHT FLOATING CENTER	UNV	LAY-IN	3500K, 3414 LUMENS	0-10V DIMMING	NONE	ACRYLIC	COLUMBIA #LCAT22-35-ML-G-ED-U	30	
A6BF	6" WIDE X 8'-0" LINEAR LED FIXTURE, SATINE LENS, FLANGE MOUNT, STANDARD OUTPUT	UNV	RECESSED	3500K, XXX LUMENS/FT	0-10V DIMMING	NONE	SATINE	PINNACLE #EVGA-35HO-8-FL-U-OLS-1-0-W	69.6	
A612	6" WIDE X 60" "X" SHAPE PENDANT FIXTURE, INDEPENDENT UPLIGHT AND DOWNLIGHT CONTROL, FLAT ENDCAP, FINISH BY ARCHITECT	UNV	PENDANT, 12'-0" AFF	3500K, 750 LUMENS/FT DOWN 3500K, 500 LUMENS/FT UP	0-10V DIMMING	NONE	ACRYLIC	PINNACLE #CDF-BW-835HO-835-X3-AC60ST-U-FSD-2-0-FINISH-FE	43.5	
A612E	6" WIDE X 60" "X" SHAPE PENDANT FIXTURE, INDEPENDENT UPLIGHT AND DOWNLIGHT CONTROL, FLAT ENDCAP, FINISH BY ARCHITECT, EMERGENCY OPERATION	UNV	PENDANT, 12'-0" AFF	3500K, 750 LUMENS/FT DOWN 3500K, 500 LUMENS/FT UP	0-10V DIMMING	INTERNAL BATTERY	ACRYLIC	PINNACLE #CDF-BW-835HO-835-X3-AC60ST-U-FSD-2-E-0-FINISH-FE	43.5	
AW1	RECTANGULAR, HORIZONTAL IN WALL STEP LIGHT, DIECAST ALUMINUM, SOLITE LENS, WITH DRYWALL BAR HANGER INSTALLATION KIT, RED LED	UNV	WALL RECESSED 18" AFF TO CENTER OR REFER TO PLANS	RED	0-10V DIMMING	NONE	CLEAR	KENALL #MSLR-H-L-O-FINISH-CP-RLL-120	15	
B4	48" LED SURFACE WRAP, ACRYLIC LENS	UNV	SURFACE/PENDANT	3500K, 3,800 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	COLUMBIA #CSL4-L5CS	30.4	
B4E	48" LED SURFACE WRAP, ACRYLIC LENS, EMERGENCY OPERATION	UNV	SURFACE/PENDANT	3500K, 3,800 LUMENS	FIXED OUTPUT	INTERNAL BATTERY	ACRYLIC	COLUMBIA #CSL4-L5CS	30.4	
B5I	48" LED HIGHBAY, TWO LED LIGHT BARS, ONE TO BE WHITE LIGHT AND ONE TO BE RED, WHITE AND RED ACRYLIC LENSES, SEPARATE LIGHT BAR CONTROL, PENDANT MOUNT	UNV	PENDANT 20'-0" A.F.F.	3500K, 47,674 LUMENS	0-10V DIMMING	NONE	ACRYLIC	LUX DYNAMICS #L-2-S-A-835-4-U10-WA4-RP4-B-A/B SWITCH-6/10-10Y-GAR	154	
B5IE	48" LED HIGHBAY, TWO LED LIGHT BARS, ONE TO BE WHITE LIGHT AND ONE TO BE RED, WHITE AND RED ACRYLIC LENSES, SEPARATE LIGHT BAR CONTROL, PENDANT MOUNT, EMERGENCY OPERATION	UNV	PENDANT 20'-0" A.F.F.	3500K, 47,674 LUMENS	0-10V DIMMING	INTERNAL BATTERY	ACRYLIC	LUX DYNAMICS #L-2-S-A-835-4-U10-WA4-RP4-B-A/B SWITCH-6/10-10Y-GAR-E20	154	
B5IA	48" LED HIGHBAY, TWO LED LIGHT BARS, WHITE ACRYLIC LENSES, PENDANT MOUNT	UNV	PENDANT 20'-0" A.F.F.	3500K, 24,436 LUMENS	0-10V DIMMING	NONE	ACRYLIC	LUX DYNAMICS #L-2-S-A-835-4-U10-RP4-WA-T-4/10-10Y18-GAR	154	
B5IAE	48" LED HIGHBAY, TWO LED LIGHT BARS, WHITE ACRYLIC LENSES, PENDANT MOUNT, EMERGENCY OPERATION	UNV	PENDANT 20'-0" A.F.F.	3500K, 24,436 LUMENS	0-10V DIMMING	INTERNAL BATTERY	ACRYLIC	LUX DYNAMICS #L-2-S-A-835-4-U10-RP4-WA-T-4/10-10Y18-GAR	154	
B8	96" LED SURFACE WRAP, ACRYLIC LENS	UNV	SURFACE/PENDANT	3500K, 8,000 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	COLUMBIA #CSL8-L5CS	72	
B8E	96" LED SURFACE WRAP, ACRYLIC LENS, EMERGENCY OPERATION	UNV	SURFACE/PENDANT	3500K, 8,000 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	COLUMBIA #CSL8-L5CS	72	
B8A	96" LED SURFACE WRAP, ENCLOSED AND GASKETED, RIBBED FROSTED ACRYLIC LENS	UNV	SURFACE	3500K, 9,276 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	COLUMBIA #LKEM-B-35-LW-RFA-E-U	67	
C6	6" ROUND LED DOWN LIGHT, CLEAR CONE, DIFFUSED LENS	UNV	CEILING RECESSED	3500K, 1710 LUMENS	0-10V DIMMING	NONE	DIFFUSED	ALPHABET #NU6-RD-20LM-35K-83-HE60-277-DIM10-NC-FINISH-FINISH	28	
C6E	6" ROUND LED DOWN LIGHT, CLEAR CONE, DIFFUSED LENS, EMERGENCY OPERATION	UNV	CEILING RECESSED	3500K, 1710 LUMENS	0-10V DIMMING	INTERNAL BATTERY	DIFFUSED	ALPHABET #NU6-RD-20LM-35K-83-HE60-277-DIM10-NC-FINISH-FINISH-EM12IT5	28	
C6A	6" ROUND LED DOWN LIGHT, CLEAR CONE, DIFFUSED LENS	UNV	CEILING RECESSED	3500K, 1710 LUMENS	0-10V DIMMING	NONE	DIFFUSED	ALPHABET #NU6-RD-20LM-35K-83-HE60-277-DIM10-NC-FINISH-FINISH	28	
C6W	6" ROUND LED DOWN LIGHT, CLEAR CONE, DIFFUSED LENS, WEL LOCATION LISTED	UNV	CEILING RECESSED	3500K, 1710 LUMENS	0-10V DIMMING	NONE	DIFFUSED	ALPHABET #NU6-RD-20LM-35K-83-HE60-277-DIM10-NC-FINISH-FINISH	28	
D5A	12" HORIZONTAL MOUNTED LED WALL SCONCE, WHITE ACRYLIC INNER DIFFUSER/CLEAR ACRYLIC OUTER DIFFUSER, STEEL HOUSING, INTEGRAL ROCKER SWITCH, FINISH BY ARCHITECT	UNV	WALL SURFACE 6'-8" AFF	3500K, 1,800 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	TERON LIGHTING #VCY12-L6.8-LT200-UNV-FINISH-35K	18	
D5B	28" HORIZONTAL MOUNTED LED WALL SCONCE, WHITE ACRYLIC INNER DIFFUSER/CLEAR ACRYLIC OUTER DIFFUSER, STEEL HOUSING, FINISH BY ARCHITECT	UNV	WALL SURFACE, 6" ABOVE MIRROR	3500K	FIXED OUTPUT	NONE	ACRYLIC	TERON LIGHTING #DNB24-L18.7-ZE-UNIV-FINISH-35K	18	
D5C	24" VANITY WALL SCONCE, HIGH WATT OUTPUT, ACRYLIC DIFFUSER, FINISH BY ARCHITECT	UNV	WALL SURFACE, 6" ABOVE MIRROR	3500K, 1,800 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	VISA #CB6432/L35K-H/FINISH/FINISH	18	
D5D	LED VERTICAL TRAFFIC CONTROLLER, RED/GREEN, POLYCARBONATE HOUSING AND HOOD	120V	WALL SURFACE, 8'-0" TO TOP OF FIXTURE	LED	FIXED OUTPUT	NONE	N/A	FURNISHED WITH DOORS		
D5E	96" EXTERIOR LINEAR FIXTURE, 18" ARM, WET LOCATION, REMOTE POWER SUPPLY, 60"X60" OPTICS, STATIC WHITE, MEDIUM OUTPUT, COLOR BY ARCHITECT	120V	WALL SURFACE, 12" ABOVE LETTERS	4000K, 6664 LUMENS	0-10V DIMMING	NONE	GLASS	INSIGHT #MX-MO-40K-D-6060-EAM18-96DIM-FINISH	72	
D5F	WALL MOUNTED CUTOFF FIXTURE, TYPE III OPTICS, WET LOCATION, BUG RATING 1/0/2, COLOR BY ARCHITECT	UNV	REFER TO ARCH. ELEVATIONS	4000K, 8662 LUMENS	0-10V DIMMING	NONE	GLASS	KIM #WDM/D/4BL/65/4K7/3/UNV/FINISH	65	
E1	DIECAST LED EXIT SIGN, SINGLE FACE, BLACK HOUSING WITH BRUSHED ALUMINUM FACEPLATE, GREEN STENCIL, NICAD BATTERY	UNV	CEILING SURFACE	AS REQ'D	N/A	INTERNAL BATTERY	NONE	DUAL LITE #SESGBNE	3.5	
E2	DIECAST LED EXIT SIGN, DOUBLE FACE, BLACK HOUSING WITH BRUSHED ALUMINUM FACEPLATE, GREEN STENCIL, NICAD BATTERY	UNV	WALL/CEILING AS INDICATED	N/A	N/A	CONNECT TO GENSET		DUALLITE # SEDGBNE	3.5	
EM	WET LOCATION EMERGENCY LIGHTING UNIT, FINISH BY ARCHITECT, LED, NICAD BATTERY, BATTERY HEATER, RATED FOR -22°F.	UNV	WALL SURFACE 6" ABOVE DOOR	AS REQ'D	N/A	INTERNAL BATTERY	NONE	DUALLITE #PG-FINISH-HTR		
F4	48" EXTERIOR LINEAR FIXTURE, WET LOCATION, REMOTE POWER SUPPLY, 60"X60" OPTICS, STATIC WHITE, MEDIUM OUTPUT, COLOR BY ARCHITECT	120V	STRUCTURE TOP	4000K, 3332 LUMENS	0-10V DIMMING	NONE	GLASS	INSIGHT #MX-MO-40K-D-6060-SMS-48DIM-FINISH	36	
F6	72" EXTERIOR LINEAR FIXTURE, WET LOCATION, REMOTE POWER SUPPLY, 60"X60" OPTICS, STATIC WHITE, MEDIUM OUTPUT, COLOR BY ARCHITECT	120V	STRUCTURE TOP	4000K, 4998 LUMENS	0-10V DIMMING	NONE	GLASS	INSIGHT #MX-MO-40K-D-6060-SMS-72DIM-FINISH	54	
N5B	SLIM RECESSED, T-BAR MOUNTED FIXTURE, EDGE LIT OPTICAL SYSTEM, FOR LOW GLARE, 4'X4' CROSS CONFIGURATION, WIDE DISTRIBUTION	UNV	T-BAR MOUNT	3500K, 500 LUMENS/FT	0-10V DIMMING	NONE	SATINE	ARON #DUOT2-F-4x4X-50D-B2-35K8-UNV-DM-FINISH	32.4	
NX	FLEXIBLE TAPELIGHT, INDOOR RATED, RGBW, REMOTE DRIVER, RECESSED FLANGELESS MUD-IN EXTRUSION, LENGTH AS INDICATED ON PLANS	277V	WALL RECESSED, SIDE OF CLERESTORY	RGBW, 350 LUMENS/FT	RGBW	NONE	SATINE	BEULUX #F-RGBW-IP00-CT35-LENGTH/UA01-SL		
NXA	FLEXIBLE TAPELIGHT, INDOOR RATED, RGBW, REMOTE DRIVER, RECESSED FLANGELESS MUD-IN EXTRUSION, LENGTH AS INDICATED ON PLANS	277V	COVE, REFER TO ARCHITECTURAL	RGBW, 350 LUMENS/FT	RGBW	NONE	SATINE	BEULUX #F-RGBW-IP00-CT35-LENGTH/E02-SL		
P17	17" METAL PENDANT FIXTURE, LENSED, ALUMINUM HOUSING, GLASS LENS, LOW OUTPUT, A/C CABLE	UNV	PENDANT, 6'-8" AFF TO BOTTOM	3500K, 2925 LUMENS	0-10V DIMMING	NONE	GLASS	DELRAY #IL7800-A-LO-W35-D	28	
SB	8" DIAMETER, ALUMINUM, VANDAL RESISTANT, DOMED CAP, LED BOLLARD, COLOR BY ARCHITECT	UNV	BOLLARD	3500K, 3414 LUMENS	0-10V DIMMING	NONE	N/A	KIM #VRB1-15L-4K-UV-FINISH	13	
SF	10" DIAMETER, IN GRADE SPOT FIXTURE, SEALED IP68 LED LIGHT ENGINE, BLUETOOTH CONNECTIVITY FOR REMOTE CONTROL AIMING	120V	IN GRADE	1633 LUMENS	FIXED OUTPUT	NONE	GLASS	KIM #LTVBFF-SP-18L-4K-UV		
S3	LED OUTDOOR FIXTURE, TYPE III DISTRIBUTION, 22' SSS POLE, SINGLE LUMINAIRE, NEIGHBORHOOD SHIELD, COLOR BY ARCHITECT, AUTO DIM TIMED BASED DIMMING	UNV	POLE 22'-0" ON 36" CONCRETE BASE	4000K, 19,293 LUMENS	FIXED OUTPUT	NONE	GLASS	BEACON #VP/MICRO STRIKE/3/320L-145/R4T/3/UNV/A/FINISH/SHD-2-HSS-90/ADD/SSS-8-25-SD-B-1-FINISH	150	
SF1	GROUND MOUNTED FLOODLIGHT, WIDE DISTRIBUTION, STANDARD KNUCKLE MOUNT	UNV	GROUND	4000K, 1025 LUMENS	FIXED OUTPUT	NONE	GLASS	KIM #LSP-L5CS	8.1	
U1	36" UNDERCABINET LED FIXTURE, FINISH BY ARCHITECT, INTERNAL ROCKER SWITCH	120V	UNDERCABINET	3500K, 1,605 LUMENS	FIXED OUTPUT	NONE	ACRYLIC	KENALL #AUCLED-I-FINISH-161L35K-36-120-SW	18	
U2	24" UNDERCABINET LED FIXTURE, FINISH BY ARCHITECT, INTERNAL ROCKER SWITCH	120V	UNDERCABINET	3500K, 1,317LUMENS	FIXED OUTPUT	NONE	ACRYLIC	KENALL #AUCLED-I-FINISH-111L35K-24-120-SW	11	

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMF/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	20611004000

SEAL:
COLORADO LICENSED
SUMMIT FAGLER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET ID:
E-701

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/23/2026 10:17:34 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

Branch Panel: H1C

Location: ELECTRICAL 203 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 25,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **Spaces:** 30

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	EXHAUST EXTRACTION FAN - VEF-2...		15 A	3	1275... 5291...			3	25 A		ROOF TOP UNIT - RTU-2	2
3	–		–	–		1275... 5291...		–	–		–	4
5	–		–	–			1275... 5291...	–	–		–	6
7	IRRAGATION CONTROLLER		20 A	1	500 VA 0 VA			1	20 A		SPARE	8
9	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	10
11	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	12
13	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	14
15	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	16
17	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	18
19	SPACE ONLY		–	1	-- –			1	--		SPACE ONLY	20
21	SPACE ONLY		–	1		– --		1	--		SPACE ONLY	22
23	SPACE ONLY		–	1			-- –	1	--		SPACE ONLY	24
25	PANEL "HLIC"		50 A	3	5696... 2631...			3	110 A		ERV-2	26
27	--		–	--		4552... 2631...		--	--		–	28
29	–		–	–			5548... 2631...	--	--		–	30
					Total Load: 39077 VA	37433 VA	38429 VA					
					Total Amps: 142 A	135 A	139 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	2020 VA	100.00%	2020 VA		
CON	7325 VA	125.00%	9156 VA	Total Conn. Load:	114938 VA
MTR	104873 VA	100.00%	104873 VA	Total Est. Demand:	116769 VA
REC	720 VA	100.00%	720 VA	Total Conn. Current:	138 A
				Total Est. Demand Current:	140 A

Notes:

Branch Panel: H1D

Location: ELECTRICAL 203 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 14,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **Spaces:** 30

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	LTG ROOMS 160, 161 & 163		20 A	1	752 VA 576 VA			1	20 A		LTG APPARATUS BAYS 140	2
3	LTG ROOMS 155, 156,157 & 158		20 A	1		446 VA 576 VA		1	20 A		LTG APPARATUS BAYS 140	4
5	LTG ROOMS 150, 151, 152, 153, 154		20 A	1			520 VA 16 VA	1	20 A		LTG	6
7	LTG EXTERIOR		20 A	1	146 VA 324 VA			1	20 A		LTG - CLERESTORY	8
9	LTG MEZZANINE 202, 203 & 204		20 A	1		1296... 0 VA		1	20 A		SPARE	10
11	EXIT AND EM FIXTURES		20 A	1			64 VA 0 VA	1	20 A		SPARE	12
13	LIGHTING CONTROL PANEL - LCP2		20 A	1	500 VA 0 VA			1	20 A		SPARE	14
15	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	16
17	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	18
19	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	20
21	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	22
23	SPACE ONLY		--	1			– --	1	–		SPACE ONLY	24
25	SPACE ONLY		--	1	– --			1	–		SPACE ONLY	26
27	SPACE ONLY		--	1		-- –		1	–		SPACE ONLY	28
29	SPACE ONLY		--	1			– --	1	–		SPACE ONLY	30
					Total Load: 2270 VA	2317 VA	597 VA					
					Total Amps: 9 A	9 A	2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
LTG	4515 VA	125.00%	5643 VA	Total Conn. Load:	4692 VA
LTG-EXT	178 VA	125.00%	223 VA	Total Est. Demand:	5865 VA
				Total Conn. Current:	6 A
				Total Est. Demand Current:	7 A

Notes:

Branch Panel: HL1C

Location: ELECTRICAL 203 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: THLIC | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **Spaces:** 30 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	NOTES	Trip	Poles	A	B	C	Poles	Trip	NOTES	Circuit Description	CKT
1	BOILER - B-1		20 A	1	180 VA 220 VA			1	20 A		WATER HEATER - IHW-1	2
3	BOILER - B-2		20 A	1		180 VA 220 VA		1	20 A		WATER HEATER - IHW-2	4
5	UNIT HEATER - GUH-5		20 A	1			552 VA 1080...	1	20 A		DESTRAT FANS - DS-7, 8, 9, 10, 11 & 12	6
7	UNIT HEATER - GUH-6		20 A	1	552 VA 1560...			2	15 A		OUTDOOR UNIT - OU-3	8
9	UNIT HEATER - GUH-7		20 A	1		552 VA 1560...		--	--		–	10
11	UNIT HEATER - GUH-8		20 A	1			552 VA 2184...	2	25 A		OUTDOOR UNIT - OU-4	12
13	SPARE		20 A	1	0 VA 2184...			--	--		–	14
15	ROOF TOP RECEPTACLES		20 A	1		540 VA 500 VA		1	20 A		EXHAUST RAIL	16
17	CO2		20 A	1			180 VA 0 VA	1	20 A		SPARE	18
19	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	20
21	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	22
23	SPACE ONLY		–	1			– –	1	--		SPACE ONLY	24
25	SPACE ONLY		–	1	-- 1000...			3	20 A		LOGISTICS LOBBY 150 - EUH-4	26
27	SPACE ONLY		–	1		– 1000...		--	--		–	28
29	SPACE ONLY		–	1			– 1000...	--	--		–	30
					Total Load: 5696 VA	4552 VA	5548 VA					
					Total Amps: 49 A	38 A	48 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	2020 VA	100.00%	2020 VA		
CON	3000 VA	125.00%	3750 VA	Total Conn. Load:	157916 VA
MTR	100516 VA	100.00%	100516 VA	Total Est. Demand:	165466 VA
REC	720 VA	100.00%	720 VA	Total Conn. Current:	444 A
				Total Est. Demand Current:	466 A

Notes:

Branch Panel: H1E

Location: ELECTRICAL 203 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 14,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **Spaces:** 30

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	2
3	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	4
5	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	6
7	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	8
9	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	10
11	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	12
13	SPACE ONLY		--	1	– --			1	–		SPACE ONLY	14
15	SPACE ONLY		--	1		-- –		1	–		SPACE ONLY	16
17	SPACE ONLY		--	1			– --	1	–		SPACE ONLY	18
19	CRANE		70 A	3	1465... --			1	–		SPACE ONLY	20
21	–		--	--		1465... –		1	–		SPACE ONLY	22
23	–		--	--			1465... --	1	–		SPACE ONLY	24
25	PANEL "HL1E"		70 A	3	1556... 8864...			3	40 A		PARTS WASHER	26
27	–		--	--		1743... 8864...		–	–		--	28
29	–		--	--			1852... 8864...	–	–		--	30
					Total Load: 39077 VA	40947 VA	42037 VA					
					Total Amps: 141 A	149 A	153 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	30792 VA	100.00%	30792 VA		
CON	3120 VA	125.00%	3900 VA	Total Conn. Load:	122061 VA
MTR	83099 VA	100.00%	83099 VA	Total Est. Demand:	122841 VA
REC	5050 VA	100.00%	5050 VA	Total Conn. Current:	147 A
				Total Est. Demand Current:	148 A

Notes:

H1C	H1D
HL1C	H1E

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102 East Moreno Avenue
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719-473-7083
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	206110040000

SEAL:
COLORADO LICENSED
SUMMIT FAGLER
84223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET ID:
E-702

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/23/2026 10:17:34 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:34 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

Branch Panel: HL1E

Location: ELECTRICAL 203
Supply From: THL1E
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 60

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A		B		C		Poles	Trip	Notes	Circuit Description	CKT
1	REC SHOP & UPFIT 163		20 A	1	680 VA	1000...					1	20 A		REC SHOP & UPFIT 163	2
3	REC SHOP & UPFIT 163		20 A	1			630 VA	180 VA			1	20 A		SHOP & UPFIT 163 - OVERHEAD DOOR	4
5	REC SHOP & UPFIT 163		20 A	1					1360...	1500...	1	20 A		OVERHEAD DOOR	6
7	LIGHT POLE RECEPTACLES		20 A	1	540 VA	1500...					1	20 A		OVERHEAD DOOR	8
9	MOBILE LIFT		20 A	1			840 VA	1500...			1	20 A		OVERHEAD DOOR	10
11	MOBILE LIFT		20 A	1					840 VA	1500...	1	20 A		OVERHEAD DOOR	12
13	MOBILE LIFT		20 A	1	840 VA	1500...					1	20 A		OVERHEAD DOOR	14
15	MOBILE LIFT		20 A	1			840 VA	1500...			1	20 A		OVERHEAD DOOR	16
17	MOBILE LIFT		20 A	1					840 VA	540 VA	1	20 A		OIL DISP. PUMP	18
19	MOBILE LIFT		20 A	1	840 VA	540 VA					1	20 A		OIL DISP. PUMP	20
21	SPARE		20 A	1			0 VA	540 VA			1	20 A		OIL DISP. PUMP	22
23	SPACE ONLY		--	1					--	540 VA	1	20 A		OIL DISP. PUMP	24
25	SPACE ONLY		--	1	--	540 VA					1	20 A		OIL DISP. PUMP	26
27	GATE CONTROLLER		20 A	2			0 VA	4000...			2	50 A		WELDER	28
29	--		--	--					0 VA	4000...	--	--		--	30
31	BULK FLUID 161 - OVHD DOOR		20 A	1	180 VA	1040...					3	20 A		DECON LAUNDRY 135 - EXTRACTOR	32
33	SPARE		20 A	1			0 VA	1040...			--	--		--	34
35	SPARE		20 A	1					0 VA	1040...	--	--		--	36
37	SPARE		20 A	1	0 VA	1800...					3	20 A		FOUR POST LIFT	38
39	SPARE		20 A	1			0 VA	1800...			--	--		--	40
41	SPARE		20 A	1					0 VA	1800...	--	--		--	42
43	SPARE		20 A	1	0 VA	4560...					3	50 A		DECON LAUNDRY 135 - DRYING CAB.	44
45	SPARE		20 A	1			0 VA	4560...			--	--		--	46
47	SPARE		20 A	1					0 VA	4560...	--	--		--	48
49	SPACE ONLY		--	1	--	--					1	--		SPACE ONLY	50
51	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	52
53	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	54
55	SPACE ONLY		--	1	--	--					1	--		SPACE ONLY	56
57	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	58
59	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	60
				Total Load:	1556.0 VA		1743.0 VA		1852.0 VA						
				Total Amps:	13.0 A		14.8 A		15.7 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	420.0 VA	100.00%	420.0 VA		
CON	312.0 VA	125.00%	390.0 VA	**Total Conn. Load:**	515.1.0 VA
MTR	3914.0 VA	100.00%	3914.0 VA	**Total Est. Demand:**	522.90 VA
REC	505.0 VA	100.00%	505.0 VA	**Total Conn. Current:**	14.3 A
				Total Est. Demand Current:	14.5 A

Notes:
1. TWO SECTION PANEL SHALL BE IN A 20" WIDE ENCLOSURE.

Switchboard: MDP

Location:
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL "H1A"	3	225 A	150 A	81076 VA	
2	PANEL "H1B"	3	100 A	100 A	10846 VA	
3	PANEL "H1F"	3	225 A	200 A	125012 VA	
4	PANEL "H1C"	3	225 A	225 A	114938 VA	
5	PANEL "H1D"	3	100 A	100 A	5176 VA	
6	PANEL "H1E"	3	225 A	150 A	122061 VA	
7	PANEL "L1C"	3	60 A	50 A	22486 VA	
8	SPD	3	60 A	60 A	0 VA	
9	SPARE	1	225 A	200 A	0 VA	
10	SPARE	1	100 A	100 A	0 VA	
11	SPACE ONLY	1	--	--	--	
12	SPACE ONLY	1	--	--	--	
				Total Conn. Load:	480328 VA	
				Total Amps:	578 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
LTG	14209 VA	125.00%	17761 VA	**Total Conn. Load:**	480328 VA
REC	50600 VA	59.88%	30300 VA	**Total Est. Demand:**	476515 VA
NC	44252 VA	100.00%	44252 VA	**Total Conn.:**	578 A
CON	36377 VA	125.00%	45471 VA	**Total Est. Demand:**	573 A
MTR	289895 VA	100.00%	289895 VA		
LM	31869 VA	125.00%	39836 VA		
KIT	12352 VA	65.00%	8029 VA		
LTG-EXT	1046 VA	125.00%	1308 VA		

Notes:

Branch Panel: L1C

Location: ELECTRICAL 203
Supply From: TLIC
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 42

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A		B		C		Poles	Trip	Notes	Circuit Description	CKT
1	REC 150, 156, 157, 158, 159		20 A	1	1260...	0 VA					1	20 A		SPARE	2
3	REC ADMIN 151		20 A	1			900 VA	0 VA			1	20 A		SPARE	4
5	REC OFFICE 152		20 A	1					900 VA	0 VA	1	20 A		SPARE	6
7	REC OPEN OFFICE 153		20 A	1	720 VA	0 VA					1	20 A		SPARE	8
9	REC OPEN OFFICE 153 - COPIER		20 A	1			1200...	0 VA			1	20 A		SPARE	10
11	REC OFFICE 154		20 A	1					900 VA	0 VA	1	20 A		SPARE	12
13	KIT BREAK 155 - REFRIGERATOR		20 A	1	1000...	0 VA					1	20 A		SPARE	14
15	KIT BREAK 155 - ICE MACHINE		15 A	1			492 VA	1500...			1	20 A		RECEPTACLE	16
17	KIT BREAK 155 - DISH WASHER		20 A	1					1000...	0 VA	1	20 A		SPARE	18
19	KIT BREAK 155 - DISPOSAL		20 A	1	1000...	720 VA					1	20 A	1	CORD REEL	20
21	REC BREAK 155		20 A	1			900 VA	720 VA			1	20 A	1	CORD REEL	22
23	REC PARTS 160		20 A	1					1260...	720 VA	1	20 A	1	CORD REEL	24
25	REC LOGISTICS APPARATUS BAYS 140		20 A	1	1080...	720 VA					1	20 A	1	CORD REEL	26
27	REC LOGISTICS APPARATUS BAYS 140		20 A	1			1080...	720 VA			1	20 A	1	CORD REEL	28
29	REC LOGISTICS APPARATUS BAYS 140		20 A	1					1080...	720 VA	1	20 A	1	CORD REEL	30
31	REC STORAGE 204		20 A	1	1810...	84 VA					1	20 A		BREAK 155 - UNDERCAB LTG.	32
33	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	34
35	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	36
37	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	38
39	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	40
41	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	42
				Total Load:	8394 VA		7512 VA		6580 VA						
				Total Amps:	71 A		64 A		55 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	432.0 VA	100.00%	432.0 VA		
CON	180 VA	125.00%	225 VA	**Total Conn. Load:**	22486 VA
REC	14050 VA	85.59%	12025 VA	**Total Est. Demand:**	19179 VA
KIT	3852 VA	65.00%	2504 VA	**Total Conn. Current:**	62 A
LTG	84 VA	125.00%	105 VA	**Total Est. Demand Current:**	53 A

Notes:
1. CIRCUIT BREAKER SHALL BE GFCI TYPE.

Branch Panel: H1A

Location: HALL 108
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 30

A.I.C. Rating: 25,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A		B		C		Poles	Trip	Notes	Circuit Description	CKT
1	EXHST EXTRACTION FAN -...		25 A	3	3717...	0 VA					1	20 A		SPARE	2
3	--		--	--			3717...	0 VA			1	20 A		SPARE	4
5	--		--	--					3717...	0 VA	1	20 A		SPARE	6
7	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	8
9	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	10
11	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	12
13	SPARE		20 A	1	0 VA	--					1	--		SPACE ONLY	14
15	SPARE		20 A	1			0 VA	--			1	--		SPACE ONLY	16
17	SPARE		20 A	1					0 VA	--	1	--		SPACE ONLY	18
19	SPACE ONLY		--	1	--	--					1	--		SPACE ONLY	20
21	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	22
23	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	24
25	PANEL "HL1A"		125 A	3	2081...	3174...					3	30 A		ROOF TOP UNIT - RTU-1	26
27	--		--	--			2093...	3174...			--	--		--	28
29	--		--	--					1865...	3174...	--	--		--	30
				Total Load:	27705 VA		27828 VA		25544 VA						
				Total Amps:	101 A		102 A		92 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	460 VA	100.00%	460 VA		
CON	16460 VA	125.00%	20575 VA	**Total Conn. Load:**	81076 VA
MTR	61296 VA	100.00%	61296 VA	**Total Est. Demand:**	85191 VA
REC	2860 VA	100.00%	2860 VA	**Total Conn. Current:**	98 A
				Total Est. Demand Current:	102 A

Notes:

HL1E	L1C
MDP	H1A

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	206110040.00

SEAL:
COLORADO LICENSED
SUMAIL FAGGLER
64223
PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET ID:
E-703

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/23/2026 10:17:35 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_AEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:35 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_AEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

Branch Panel: H1B

Location: ELEC 125
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 42

A.I.C. Rating: 14,000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	LTG ROOMS 100, 101, 102, 103 & 104		20 A	1	525 VA	275 VA		1	20 A		LTG-HALL 108	2
3	LTG ROOMS 105 & 106		20 A	1		2215...	110 VA	1	20 A		FOOTPATH LIGHTING	4
5	LTG ROOMS...		20 A	1			434 VA	492 VA	1	20 A		RESTROOM LIGHTING	6
7	LTG ROOMS 117, 123		20 A	1	252 VA	576 VA		1	20 A		LTG APPARATUS BAYS 130	8
9	LTG ROOMS 131,132,133,135,136,137		20 A	1		2323...	576 VA	1	20 A		LTG APPARATUS BAYS 130	10
11	LTG EXTERIOR		20 A	1			243 VA	104 VA	1	20 A		EXTERIOR SIGNAGE	12
13	LIGHTING CONTROL PANEL - LCP1		20 A	1	500 VA	324 VA		1	20 A		LTG - CLERESTORY	14
15	SITE LIGHTING		20 A	1		1800...	0 VA	1	20 A		SPARE	16
17	MONUMENT SIGN AND FLAG POLE		20 A	1			23 VA	0 VA	1	20 A		SPARE	18
19	BOLLARDS		20 A	1	117 VA	0 VA			1	20 A		SPARE	20
21	EXIT AND EM LIGHTING		20 A	1		64 VA	0 VA		1	20 A		SPARE	22
23	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	24
25	SPARE		20 A	1	0 VA	0 VA			1	20 A		SPARE	26
27	SPARE		20 A	1		0 VA	0 VA		1	20 A		SPARE	28
29	SPACE ONLY		--	1			--	--	1	--		SPACE ONLY	30
31	SPACE ONLY		--	1	--	--			1	--		SPACE ONLY	32
33	SPACE ONLY		--	1		--	--		1	--		SPACE ONLY	34
35	SPACE ONLY		--	1			--	--	1	--		SPACE ONLY	36
37	SPACE ONLY		--	1	--	--			1	--		SPACE ONLY	38
39	SPACE ONLY		--	1		--	--		1	--		SPACE ONLY	40
41	SPACE ONLY		--	1			--	--	1	--		SPACE ONLY	42
				Total Load:	2541 VA	7019 VA	1292 VA					
				Total Amps:	10 A	26 A	5 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
CON	72 VA	125.00%	90 VA		
LTG	9425 VA	125.00%	11781 VA	**Total Conn. Load:**	10352 VA
LTG-EXT	868 VA	125.00%	1085 VA	**Total Est. Demand:**	12940 VA
				Total Conn. Current:	12 A
				Total Est. Demand Current:	16 A

Notes:

Branch Panel: H1F

Location: ELEC 125
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 30

A.I.C. Rating: 25,000
Mains Type: MLO
Mains Rating: 200 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	SPARE		20 A	1	0 VA	0 VA		1	20 A		SPARE	2
3	SPARE		20 A	1		0 VA	0 VA	1	20 A		SPARE	4
5	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	6
7	SPARE		20 A	1	0 VA	0 VA			1	20 A		SPARE	8
9	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	10
11	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	12
13	SPACE ONLY		--	1	--	--			1	--		SPACE ONLY	14
15	SPACE ONLY		--	1			--	--	1	--		SPACE ONLY	16
17	SPACE ONLY		--	1				--	--	1	--		SPACE ONLY	18
19	MTR SCBA 134		30 A	3	5817...	--				1	--		SPACE ONLY	20
21	--		--	--			5817...	--	1	--		SPACE ONLY	22
23	--		--	--				5817...	--	1	--		SPACE ONLY	24
25	AIR COMPRESSOR		80 A	3	1062...	2778...				3	125 A		TL1B	26
27	--		--	--			1062...	2251...		--	--		--	28
29	--		--	--					1062...	2539...	--	--		--	30
				Total Load:	4221 VA	3895 5 VA	4 1836 VA							
				Total Amps:	161 A	141 A	153 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	6660 VA	100.00%	6660 VA		
CON	9220 VA	125.00%	11525 VA	**Total Conn. Load:**	125012 VA
MTR	40627 VA	100.00%	40627 VA	**Total Est. Demand:**	123404 VA
LM	31869 VA	125.00%	39836 VA	**Total Conn. Current:**	150 A
REC	27920 VA	67.91%	18960 VA	**Total Est. Demand Current:**	148 A
KIT	8500 VA	65.00%	5525 VA		
LTG	216 VA	125.00%	270 VA		

Notes:

Branch Panel: HL1A

Location: ELEC 125
Supply From: THL1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	FURNICE - F-1		20 A	1	1150...	2185...		2	25 A		OUTDOOR UNIT - OU-1	2
3	CONDENSING UNIT - CU-1		15 A	2			1155...	2185...	--	--	--	4
5	--		--	--				1155...	2185...	2	25 A		OUTDOOR UNIT - OU-2	6
7	ROOFTOP RECEPTACLES		20 A	1	720 VA	2185...				--	--		--	8
9	DESTRAT FAN - DF-1		20 A	2			312 VA	552 VA		1	20 A		UNIT HEATER - GUH-1	10
11	--		--	--					312 VA	552 VA	1	20 A		UNIT HEATER - GUH-2	12
13	DESTRAT FAN - DF-2		20 A	2	312 VA	552 VA				1	20 A		UNIT HEATER - GUH-4	14
15	--		--	--			312 VA	552 VA		1	20 A		UNIT HEATER - GUH-3	16
17	DESTRAT FAN - DF-3		20 A	2					312 VA	552 VA	1	20 A		UNIT HEATER - GUH-9	18
19	--		--	--	312 VA	558 VA				2	20 A		INDOOR UNITS - IUV-1,2,3,4,5,6,7,8,9	20
21	DESTRAT FAN - DF-4		20 A	2			312 VA	0 VA		--	--		--	22
23	--		--	--					312 VA	790 VA	2	20 A		BRANCH SELECTORS - BS-1 & 2	24
25	DESTRAT FAN - DF-5		20 A	2	312 VA	0 VA				--	--		--	26
27	--		--	--			312 VA	460 VA		1	20 A		NC KITCHEN 105 - HD-1	28
29	DESTRAT FAN - DF-6		20 A	2				312 VA	46 VA	1	20 A		EXHAUST FAN - EF-3	30
31	--		--	--	312 VA	437 VA				1	20 A		EXHAUST FAN - EF-4	32
33	REC HALL 108 - EWC		20 A	1			500 VA	1140...					1	20 A		RCP-1, DWH-1 & DWH-2	34
35	EXHAUST RAIL		20 A	1					500 VA	500 VA	1	20 A		REC FITNESS 137 - EWC	36
37	VRF OUTDOOR UNIT - VCU-1		45 A	3	4801...	1588...				3	20 A		MAKE-UP AIR UNIT - MAU-1	38
39	--		--	--			4801...	1588...		--	--		--	40
41	--		--	--					4801...	1588...	--	--		--	42
43	EXHAUST FAN - EF-5		30 A	1	1840...	480 VA				1	20 A		RAD-1, RAD-2, RAD-3 & RAD-4	44
45	EXHAUST FAN - EF-6		30 A	1			1840...	180 VA					1	20 A		RCP-2	46
47	SPARE		20 A	1					0 VA	60 VA	1	20 A		EXHAUST FAN - EF-7	48
49	SPARE		20 A	1	0 VA	0 VA							1	20 A		SPACE	50
51	SPARE		20 A	1			0 VA	1000...					3	20 A		ELECTRICAL UNIT HEATER - EUH-3	52
53	SPARE		20 A	1					0 VA	1000...	--	--		--	54
55	SPACE ONLY		--	1	--	1000...					--	--		--	56
57	ERV-1		15 A	2			166 VA	1500...			2	20 A		WATER ENTRY & FDC 132 - EUH-1	58
59	--		--	--					166 VA	1500...	--	--		--	60
61	SPACE ONLY		--	1	--	2070...					3	25 A		MAKE-UP AIR UNIT - MAU-2	62
63	SPACE ONLY		--	1			--	2070...			--	--		--	64
65	SPACE ONLY		--	1					--	2070...	--	--		--	66
67	SPACE ONLY		--	1	--	--					1	--		SPACE ONLY	68
69	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	70
71	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	72
73	SPACE ONLY		--	1	--	--					1	--		SPACE ONLY	74
75	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	76
77	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	78
79	SPACE ONLY		--	1	--	--					1	--		SPACE ONLY	80
81	SPACE ONLY		--	1			--	--			1	--		SPACE ONLY	82
83	SPACE ONLY		--	1					--	--	1	--		SPACE ONLY	84
				Total Load:	2081 4 VA	2093 7 VA	1871 3 VA							
				Total Amps:	176 A	177 A	156 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	460 VA	100.00%	460 VA		
CON	5309 VA	125.00%	6636 VA	**Total Conn. Load:**	60463 VA
MTR	51834 VA	100.00%	51834 VA	**Total Est. Demand:**	61790 VA
REC	2860 VA	100.00%	2860 VA	**Total Conn. Current:**	168 A
				Total Est. Demand Current:	172 A

Notes:
1. CIRCUIT BREAKER SHALL BE GFCI.
2. TWO SECTION PANEL SHALL BE IN A SINGLE 20" ENCLOSURE.

H1B	HL1A
H1F	-

RS&H
102 East Moreno Avenue
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www.rsandh.com

BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	SMR/WMB
DRAWN BY:	RJO
DESIGNED BY:	WMB
PROJECT NUMBER:	206110040 00

SEAL:
COLORADO LICENSED
SUMAIL FAGELEY
64223
PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET ID:
E-704

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/29/2026 4:31:23 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/29/2026 4:31:23 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

LIGHTING CONTROL SCHEDULE

CONTROL SCHEME	ROOM TYPE/NAME	DIMMING	OCCUPANCY SENSOR	VACANCY SENSOR	DAYLIGHT SENSOR	PHOTO SENSOR	TIME OF DAY	SWITCHING	EM POWER	SCHEME DESCRIPTION	SCHEME NOTES
AP1	FIRE APPARATUS BAY #130	YES	NO	NO	NO	NO	NO	YES	YES	FOUR DIMMING ZONES WITH WALL MOUNTED DIMMING SWITCHES.	TWO DIMMERS SHALL CONTROL THE WHITE LED'S. TWO DIMMERS SHALL CONTROL THE RED LED'S
AP2	LOGISTICS APPARATUS BAY #140	YES	NO	NO	NO	NO	NO	YES	YES	TWO DIMMING ZONES WITH WALL MOUNTED DIMMING SWITCHES.	TWO DIMMERS SHALL CONTROL THE WHITE LED'S. TWO DIMMERS SHALL CONTROL THE RED LED'S
FT1	FITNESS #137	YES	YES	NO	NO	NO	NO	YES	NO	TWO DIMMING ZONES UTILIZING CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED DIMMING OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
KT1	DINING #106	YES	YES	NO	NO	NO	NO	YES	YES	THREE DIMMING ZONES UTILIZING CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED DIMMING SWITCHES.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
KT2	BREAK #155	YES	YES	NO	NO	NO	NO	YES	NO	SINGLE DIMMING ZONE UTILIZING CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED DIMMING SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
CO1	CORRIDORS	NO	YES	NO	NO	NO	NO	YES	YES	SINGLE ZONE WITH CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED OVERRIDE SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
CR1	CONFERENCE ROOM #103	YES	YES	NO	NO	NO	NO	YES	NO	ONE DIMMING ZONE UTILIZING CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED DIMMING OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
OF1	OFFICE #104, OFFICE #101, OFFICE #151, OFFICE #152, OFFICE #154	YES	YES	NO	NO	NO	NO	YES	NO	SINGLE DIMMING ZONE UTILIZING WALL MOUNTED OCCUPANCY SENSOR INTEGRAL DIMMING SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
OF2	OPEN OFFICE #153	YES	YES	NO	NO	NO	NO	YES	NO	SINGLE DIMMING ZONE UTILIZING CEILING MOUNTED OCCUPANCY SENSOR/WALL MOUNTED DIMMING SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
OF3	OFFICE #152, OFFICE #154	YES	YES	NO	NO	NO	NO	YES	NO	SINGLE DIMMING ZONE UTILIZING CEILING MOUNTED OCCUPANCY SENSOR WITH WALL MOUNTED DIMMING SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
DR1	DORM ROOM #110, #111, #112, #113, #114, #115, #116	YES	YES	NO	YES	NO	NO	N	YES	THREE DIMMING ZONES UTILIZING CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED DIMMING OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
ST1	BUNKER GEAR #136, DECON LAUNDRY #135	NO	YES	NO	NO	NO	NO	YES	NO	SINGLE ZONE WITH CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
ST2	SCBA #133, GARAGE #131, LAUNDRY #117	NO	YES	NO	NO	NO	NO	YES	NO	SINGLE ZONE WITH WALL MOUNTED OCCUPANCY SENSOR AND INTEGRAL OVERRIDE CONTROL SWITCH	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
ST3	STORAGE #200, STORAGE #202, STORAGE #204	NO	YES	NO	NO	NO	NO	YES	YES	SINGLE ZONE WITH CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
UT1	ELECTRICAL ROOMS, MECHANICAL ROOMS, IDF ROOMS	NO	NO	NO	NO	NO	NO	YES	YES	SINGLE ZONE WITH CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
UT2	BULK FLUID #161, PARTS #160, SHOP #163	NO	YES	NO	NO	NO	NO	YES	NO	SINGLE ZONE WITH CEILING MOUNTED OCCUPANCY SENSOR AND WALL MOUNTED OVERRIDE CONTROL SWITCH.	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.
RR1	RESTROOMS, SHOWER #156, LOCKER #156, RESTROOM #158	NO	YES	NO	NO	NO	NO	YES	YES	SINGLE ZONE WITH WALL MOUNTED OCCUPANCY SENSOR AND INTEGRAL OVERRIDE CONTROL SWITCH	OCCUPANCY SENSOR TIMEOUT AFTER 15 MINUTES OF INACTIVITY.

Branch Panel: L1B

Location: HALL 108
Supply From: TL1B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	NC HALL 102		0 A	1	0 VA 1260...			1	20 A		REC FIRE LOBBY 100	2
3	REC FITNESS 137		20 A	1		1080... 1080...		1	20 A		REC DUTY OFFICE 101	4
5	REC FITNESS 137		20 A	1			720 VA 1440...	1	20 A		REC TRAINING 103	6
7	DECON LAUNDRY 135 - WASHER		20 A	1	1500... 540 VA			1	20 A		LIGHT POLE RECETACLES	8
9	REC ROOMS 131, 133, 135, 200		20 A	1		1440... 1440...		1	20 A		REC HALL 108, AIR LOCKS 120 &128	10
11	REC GARAGE 131, 133, 135		20 A	1			1440... 720 VA	1	20 A	1	REC OFFICE 109	12
13	REC FIRE STATION APP BAYS 130		20 A	1	1080... 1080...			1	20 A	3	REC ADA BUNK 110 & 111	14
15	REC FIRE STATION APP BAYS 130		20 A	1		1080... 1080...		1	20 A	3	REC BUNK 112 & 113	16
17	KIT KITCHEN 105 - REFRIGERATOR		20 A	1			1000... 1080...	1	20 A	3	REC BUNK 114 & 115	18
19	KIT KITCHEN 105 - REFRIGERATOR		20 A	1	1000... 540 VA			1	20 A	3	REC BUNK 116	20
21	KIT KITCHEN 105 - REFRIGERATOR		20 A	1		1000... 1500...		1	20 A	1	REC LAUNDRY 117 - WASHER	22
23	KIT KITCHEN 105 - ICE MACHINE		15 A	1			180 VA 2500...	2	30 A	1	REC LAUNDRY 117 - DRYER	24
25	KIT KITCHEN 105 - DISHWASHER		20 A	1	1200... 2500...			–	--		--	26
27	KIT KITCHEN 105 - GARBAGE...		20 A	1		1200... 1080...		1	20 A		RESTRMS 118, 119, 121, 122, 126 & 127	28
29	KIT KITCHEN 105 - DISHWASHER		20 A	1			1200... 1127...	1	20 A		APP BAY 130 - OVERHEAD DOOR	30
31	KIT KITCHEN 105		20 A	1	2080... 1127...			1	20 A		APP BAY 130 - OVERHEAD DOOR	32
33	REC DINING / DAYROOM 106		20 A	1		1260... 1127...		1	20 A		APP BAY 130 - OVERHEAD DOOR	34
35	KITCHEN 105 - RANGE HOOD		20 A	1			1680... 1127...	1	20 A		APP BAY 130 - GARAGE DOOR	36
37	SPARE		20 A	1	0 VA 1127...			1	20 A		APP BAY 130 - GARAGE DOOR	38
39	REC - EXTERIOR	1	20 A	1		1080... 1127...		1	20 A		APP BAY 130 - GARAGE DOOR	40
41	CORD REEL	1	20 A	1			720 VA 1127...	1	20 A		GARAGE 132 - OVERHEAD DOOR	42
43	CORD REEL	1	20 A	1	720 VA 1127...			1	20 A		FITNESS 137 - OVERHEAD DOOR	44
45	CORD REEL	1	20 A	1		720 VA 101 VA		1	20 A	1	LTG KITCHEN 105 - UNDERCAB LTG	46
47	CORD REEL	1	20 A	1			720 VA 115 VA	1	20 A	1	LTG APP BAYS 130 - CONTROL LIGHTS	48
49	CORD REEL	1	20 A	1	720 VA 540 VA			1	20 A	1	REC LAUNDRY 117	50
51	CORD REEL	1	20 A	1		720 VA 0 VA		1	20 A		SPARE	52
53	CORD REEL	1	20 A	1			720 VA 0 VA	1	20 A		SPARE	54
55	CORD REEL	1	20 A	1	720 VA 0 VA			1	20 A		SPARE	56
57	CORD REEL	1	20 A	1		720 VA 0 VA		1	20 A		SPARE	58
59	BUNKER GEAR 136 - PLUG MOLD		20 A	1			360 VA 0 VA	1	20 A		SPARE	60
61	BUNKER GEAR 136 - PLUG MOLD		20 A	1	180 VA 0 VA			1	20 A		SPARE	62
63	BUNKER GEAR 136 - PLUG MOLD		20 A	1		180 VA 0 VA		1	20 A		SPARE	64
65	BUNKER GEAR 136 - PLUG MOLD		20 A	1			180 VA 0 VA	1	20 A		SPARE	66
67	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	68
69	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	70
71	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	72
73	SPACE ONLY		–	1	– 2500...			2	30 A	1	DECON LAUNDRY - DRYER	74
75	SPACE ONLY		–	1		-- 2500...		–	--		--	76
77	SPACE ONLY		–	1			– 6240...	2	100 A		ENGINE GENERATOR	78
79	SPACE ONLY		–	1	– 6240...			–	--		--	80
81	SPACE ONLY		–	1		-- 1000...		2	20 A		GATE CONTROLLER	82
83	SPACE ONLY		–	1			– 1000...	–	--		--	84
				Total Load:	27781 VA	22515 VA	25396 VA					
				Total Amps:	235 A	188 A	215 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
NC	6660 VA	100.00%	6660 VA	
CON	9220 VA	125.00%	11525 VA	Total Conn. Load: 75692 VA
MTR	23176 VA	100.00%	23176 VA	Total Est. Demand: 66116 VA
REC	27920 VA	67.91%	18960 VA	Total Conn. Current: 210 A
KIT	8500 VA	65.00%	5525 VA	Total Est. Demand Current: 184 A
LTG	216 VA	125.00%	270 VA	

Notes:
1. CIRCUIT BREAKER SHALL BE GFCI TYPE.
2. TWO SECTION PANEL SHALL BE IN A SINGLE 20" WIDE ENCLOSURE.
3. CIRCUIT BREAKER SHALL BE AFCI TYPE.

LIGHTING CONTROL SCHED.	L1B
	-

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102 East Moreno Avenue
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BRIDGERS & PAXTON
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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: SMF/WMB
DRAWN BY: RJO
DESIGNED BY: WMB
PROJECT NUMBER: 20611004000

SEAL: COLORADO LICENSED SUMMIT FAGLER 64223 PROFESSIONAL ENGINEER
2026.01.26 13:33:39-07'00'

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET ID:
E-705

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/23/2026 10:17:37 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/23/2026 10:17:37 AM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

TECHNOLOGY SYMBOL LEGEND

ABBREVIATIONS

ABBREV.	DEFINITION
A	AMPS, AMPERE
AMP	AMPLIFIER
AC	ABOVE COUNTER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AV, A/V	AUDIO-VISUAL OR AUDIO-VIDEO
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CL	CLOCK
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DIA	DIAMETER
DSVD	DIGITAL SIGNAGE VIDEO DISPLAY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FUT	FUTURE
FDU	FIBER DISTRIBUTION UNIT
GND	GROUND
HH	HANDHOLE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IC	INTERCOM
ICM	INTERCOM MASTER
KO	KNOCK-OUT
LIU	LIGHT INTERFACE UNIT
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MM	MIXED MEDIA
N	NEW
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NORMAL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH (O/H)	OVERHEAD
PA	PUBLIC ADDRESS
PMCS	POWER MONITORING AND CONTROL SYSTEM
POE	POWER OVER ETHERNET
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
U/G	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS, VOLTAGE
VR	VANDAL RESISTANT
W	WIRE
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF

REFERENCE TAGS

SYMBOL	DEFINITION
⬡	KEYED NOTE REFERENCE
+XX"	DENOTES MOUNTING HEIGHT AFF

SPECIAL SYSTEMS

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
▽	FLOOR BOX WITH POWER AND DATA	FLOOR	VARIES SEE PLANS
△	DATA OUTLET	WALL	+18" UON
△ AC	DATA OUTLET ABOVE COUNTER TOP	WALL	+44" UON
△ W	TELEPHONE OUTLET WALL MOUNTED	WALL	+44" UON
VIC	VIDEO INTERCOM CALL STATION		
VICM	VIDEO INTERCOM MASTER STATION		
WAP	WALL MOUNTED WIRELESS ACCESS POINT	WALL	SEE PLANS
H J	WALL MOUNTED CODE SIZE J-BOX		
	FLAT PANEL OR PROJECTION SCREEN	REFER TO PLANS	
	MULTI-OUTLET ASSEMBLY (SURFACE MOUNTED RACEWAY)		
	COMBINATION POWER/COMMUNICATION POLE CONFIGURATION AS NOTED ON PLANS		
VP	VIDEO PROJECTOR		
S A	CEILING SPEAKER: LOCAL SOUND SYSTEM	CEILING	FLUSH
	CABLE TRAY FOR COMMUNICATIONS	ABOVE CEILING	SEE PLANS
J	J-HOOK ROUTING PATH		
△	CEILING DATA		
WAP	CEILING WIRELESS ACCESS POINT		
J	CODE SIZE JUNCTION BOX		
TV	TV COMBO WITH POWER AND DATA	FLOOR	VARIES SEE PLANS

RACEWAY & CONDUCTORS

SYMBOL	DESCRIPTION
	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
DOWN UP	CONDUIT TURNS
	CONDUIT STUBBED AND CAPPED
	CABLE TRAY - TELECOMMUNICATIONS
T	TELECOMMUNICATIONS RACEWAY

SECURITY

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
CR	CARD READER	WALL	+44" UON
CR KP	CARD READER KEY PAD		
CR MN	CARD READER MULLION MOUNT		
90	SECURITY CAMERA 90°	VARIES	SEE PLANS
180	SECURITY CAMERA 180°		
270	SECURITY CAMERA 270°		
360	SECURITY CAMERA 360°		
GB	GLASS BREAK	WINDOW	SEE PLANS
KP	KEY PAD	WALL / CEILING	SEE PLANS
M	MOTION DETECTOR		
M	360° MOTION DETECTOR		
DC	DOOR CONTACT	DOOR	SEE PLANS
DC G	GATE CONTACT		
DC O H	OVERHEAD CONTACT		
LB	LOCK DOWN BUTTON		
ES	ELECTRIC STRIKE		
LD	LOCK DOWN		
ML	MAGNETIC LOCK		
PTE	PUSH TO ENTER/EXIT		
RTE	REQUEST TO EXIT		

GENERAL DRAWING SYMBOLS

XX / XX — SECTION/ELEVATION LETTER OR DETAIL NUMBER

XX / XX — DRAWING NUMBER WHERE DETAILED

XX / XX XX — SECTION/ELEVATION LETTER OR DETAIL NUMBER

XX / XX XX — DRAWING NUMBER WHERE DETAILED

XX / XX XX — DRAWING NUMBER WHERE TAKEN

NORTH — NORTH ARROW OR MATCH ARCHITECT'S

0 10' 20' 40' — 1" = 40'-0" — SCALE BAR OR MATCH ARCHITECT'S

8 0 8 16

SCALE: 1/8" = 1'-0"

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102 East Moreno Avenue
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719-473-7063
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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
DRAWN BY:	ECOOPER
DESIGNED BY:	Designer

PROJECT NUMBER:
20611004000

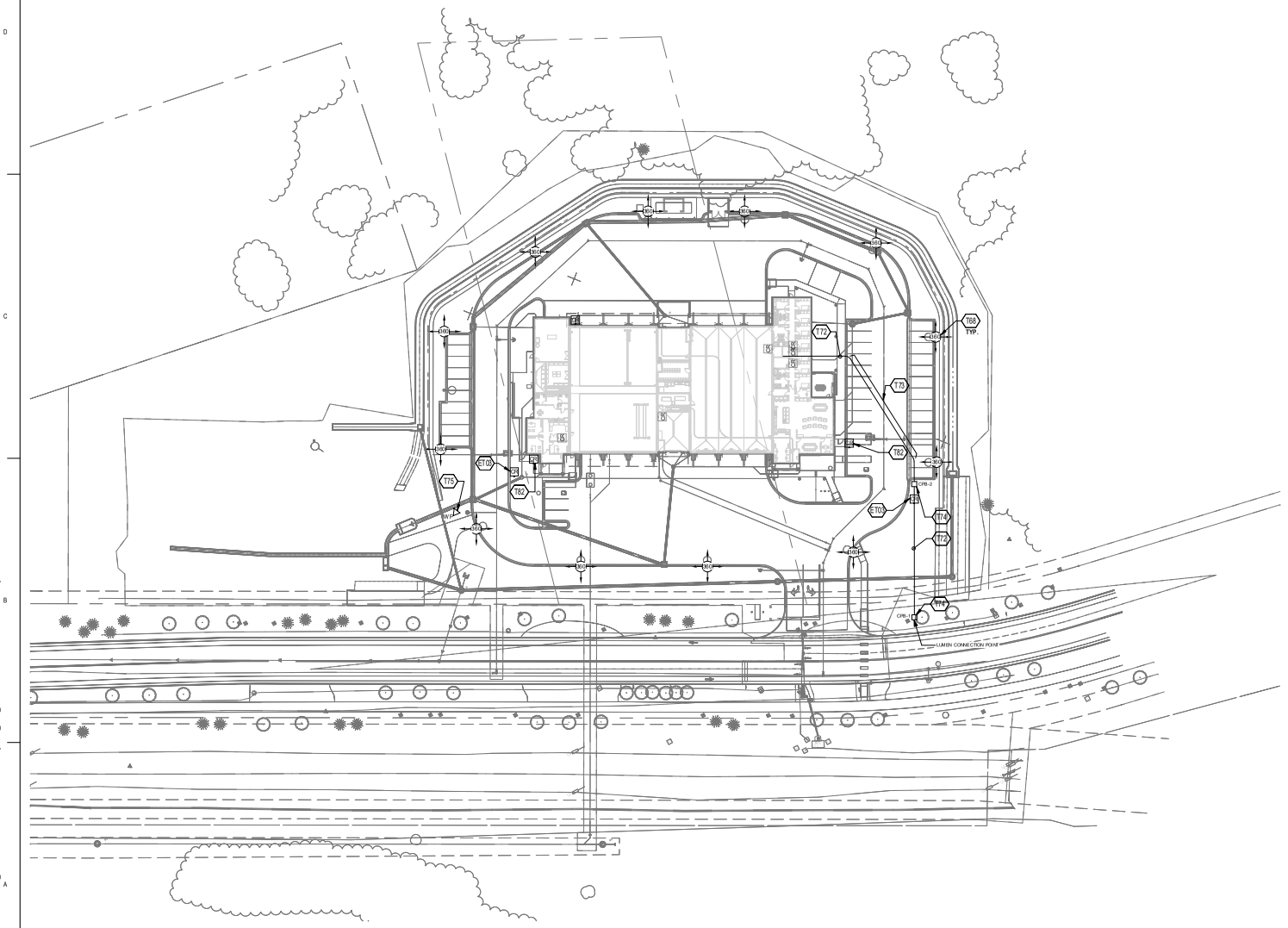
SEAL:

SHEET TITLE:
TECHNOLOGY LEGEND

SHEET ID:
T-001

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/26/2026 12:02:55 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



N PN

A1 TECHNOLOGY SITE PLAN

SCALE: 1" = 40'-0"

0' 20' 40' 80'

GENERAL SHEET NOTES

A. FOR RISER DIAGRAM, SEE SHEET T-601.
B. FOR ACCESS CONTROL SYSTEM RISER DIAGRAM, SEE SHEET T-602.

KEYNOTES

ET03 CARD READER, REQUEST TO EXIT, ELECTRIC STRIKE.
T68 EXTERIOR CAMERA MOUNTED TO TOP OF LIGHT POLE. ROUTE CONDUIT BACK TO TELECOMMUNICATIONS ROOM.
T72 2-4" SCHEDULE 40 PVC CONDUITS. 1-3" -3 CELL MAXCELL INNERDUCT IN EACH CONDUIT.
T73 2-4" SCHEDULE 40 CONCRETE ENCASED PVC CONDUITS. 1-3"-3 CELL MAXCELL INNERDUCT IN EACH CONDUIT PER DETAIL 6 ON SHEET T-503.
T74 4'X4'X4' PULLBOX. TIER 22 RATED PER DETAILS 1, 2, 3 ON SHEET T-503.
T75 WEATHERPROOF DATA OUTLET FOR LANDSCAPE CONTROLLER.
T82 CARD READER FOR PEDESTRIAN GATE.

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	K.COOPER
DRAWN BY:	E.COOPER
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

SEAL:

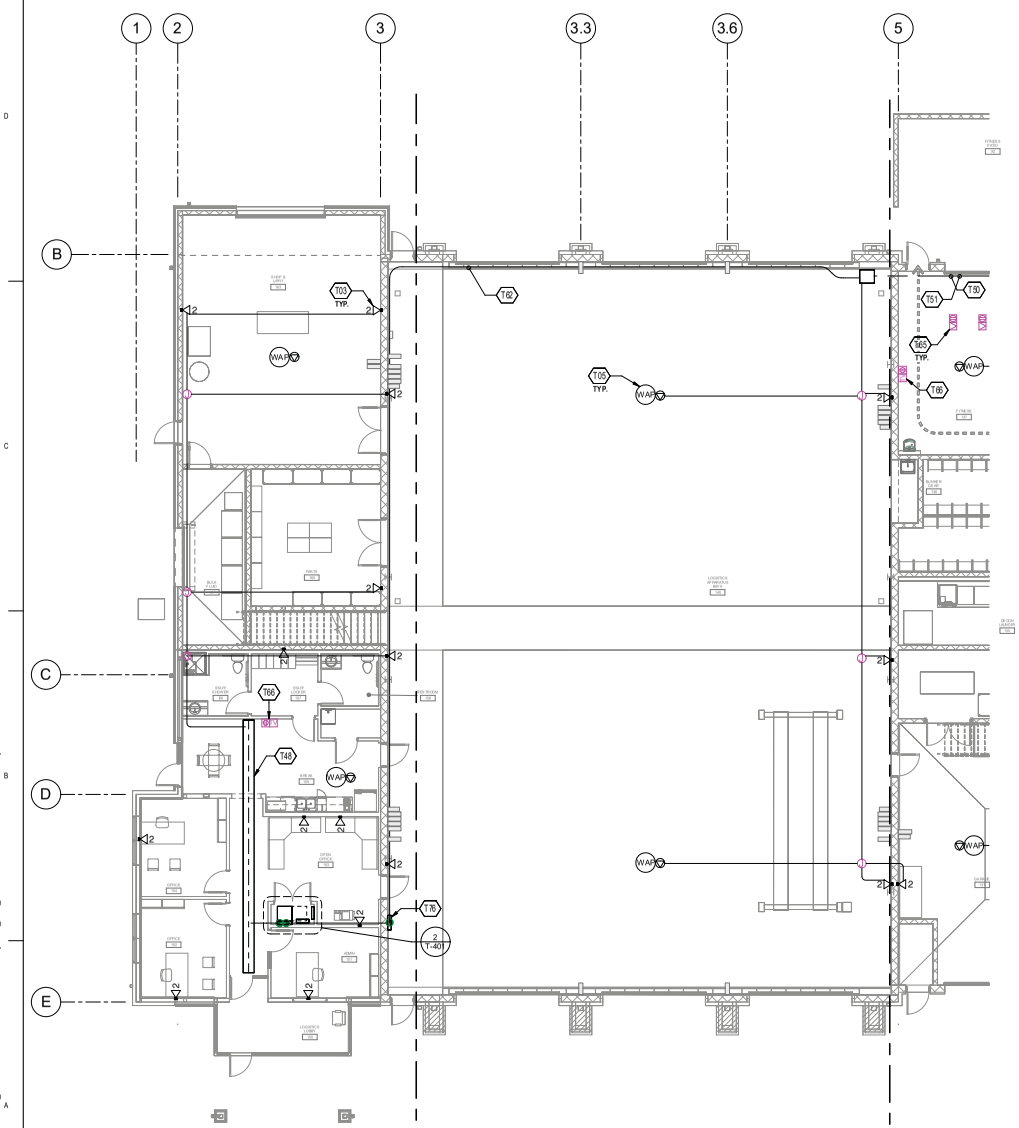
Bicsi

SHEET TITLE:
TECHNOLOGY SITE PLAN

SHEET ID:
TS101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/26/2026 12:02:57 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 12:02:57 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



A1 TECHNOLOGY SYSTEMS 1ST FLOOR PLAN - LOGISTICS

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. FOR RISER DIAGRAM, SEE SHEET T-601.

KEYNOTES

T03 STANDARD TELECOMMUNICATIONS OUTLET WITH CATEGORY 6 CABLES, QUANTITY AS SHOWN.

T05 WIRELESS ACCESS POINT LOCATION. CO-LOCATE WITH CEILING TELECOMMUNICATIONS OUTLET. WAP OUTLETS TO BE 4" ROUND 2-1/8" DEEP BOX, PROVIDE TILE BRACE. PROVIDE 15' SLACK LOOP OF CABLES TO ALLOW FOR RELOCATION BY OWNER. PROVIDE A CLEAR LABEL FOR LOCATION OF WIRELESS ACCESS POINT ON ACCESSIBLE CEILING TILE OR WALL NEAR ACCESSIBLE CEILING TILE. WIRELESS ACCESS POINT HARDWARE PROVIDED BY OWNER, CONTRACTOR TO INSTALL.

T48 18" X 4" WIRE BASKET STYLE CABLE TRAY FOR HORIZONTAL TELECOMMUNICATIONS CABLING. MOUNT CABLE TRAY 4" ABOVE LAY-IN CEILING. COORDINATE WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

T50 1-4" CONDUIT TO IT CLOSET. REFER TO SHEET T-101.

T51 1-4" CONDUIT TO IT ROOM. REFER TO SHEET T-102. MOUNT CONDUIT TO WALL.

T62 MOUNT CONDUIT TO WALL ABOVE ROLL UP DOORS.

T65 FLUSH MOUNTED FLOOR BOX, 4 GANG HUBBELL SYSTEMONE ETERNAL OR EQUAL. POWER WITH NUMBER OF CAT6 U/UTP DATA INDICATED. COORDINATE WITH POWER DRAWINGS.

T66 ARLINGTON TVBS507 BOX. POWER AND DATE. # INDICATES CAT6 U/UTP COUNT. COORDINATE WITH POWER DRAWINGS.

T76 8"DX24"WX24"L PULL BOX MOUNTED TO WALL.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
DRAWN BY:	ECOOPER
DESIGNED BY:	Designer
PROJECT NUMBER:	20611004000

SEAL:

SHEET TITLE:
TECHNOLOGY SYSTEMS SECTOR PLANS - LOGISTICS

SHEET ID:
T-101

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
1/26/2026 12:02:57 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
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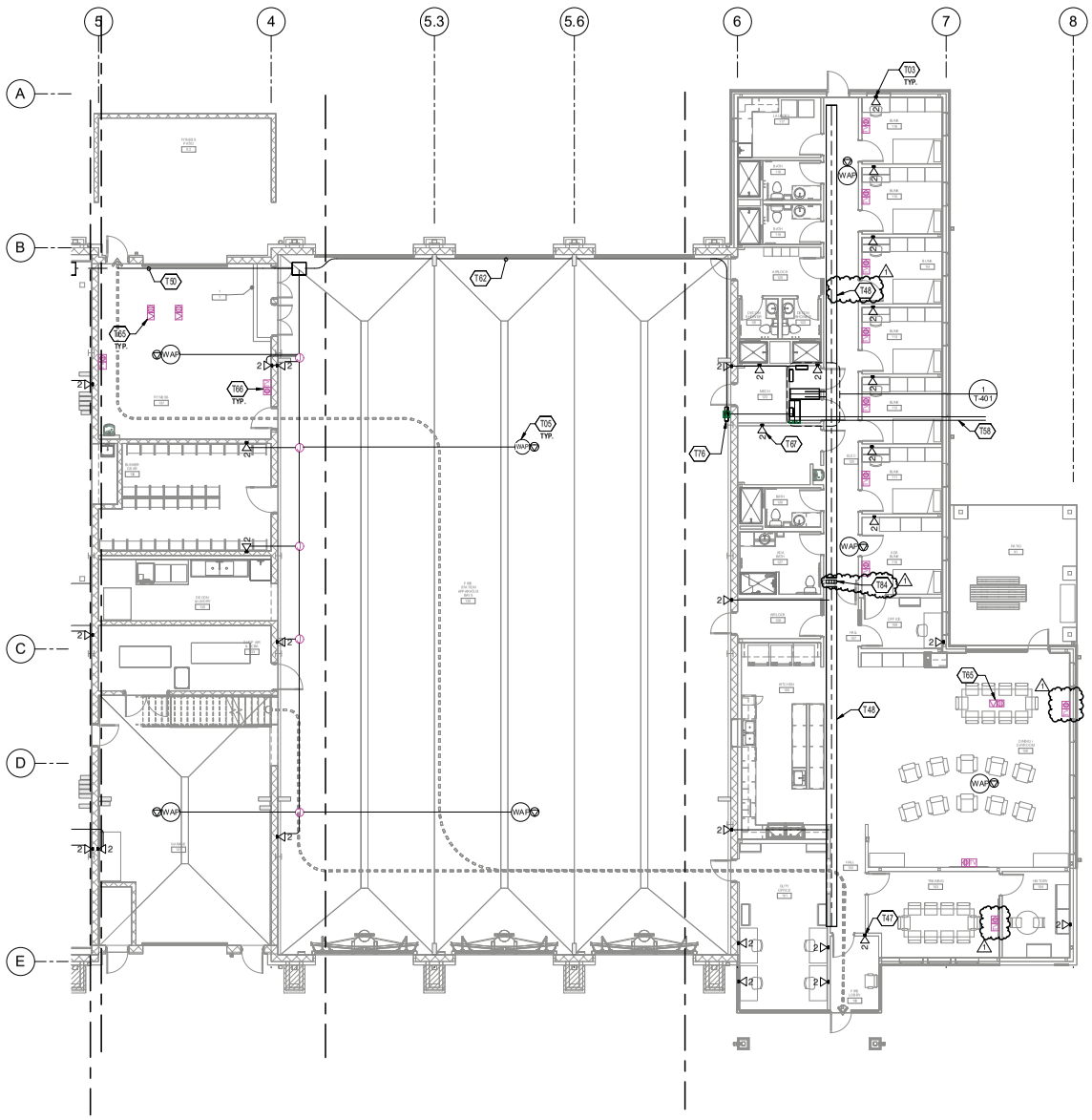

A1 TECHNOLOGY SYSTEMS 1ST FLOOR PLAN - FIRE STATION

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. FOR RISER DIAGRAM, SEE SHEET T-601.

KEYNOTES

T03 STANDARD TELECOMMUNICATIONS OUTLET WITH CATEGORY 6 CABLES. QUANTITY AS SHOWN.

T05 WIRELESS ACCESS POINT LOCATION. CO-LOCATE WITH CEILING TELECOMMUNICATIONS OUTLET. WAP OUTLETS TO BE 4" ROUND 2-1/8" DEEP BOX. PROVIDE TILE BRACE. PROVIDE 15' SLACK LOOP OF CABLES TO ALLOW FOR RELOCATION BY OWNER. PROVIDE A CLEAR LABEL FOR LOCATION OF WIRELESS ACCESS POINT ON ACCESSIBLE CEILING TILE OR WALL NEAR ACCESSIBLE CEILING TILE. WIRELESS ACCESS POINT HARDWARE PROVIDED BY OWNER, CONTRACTOR TO INSTALL.

T47 FIRE ALARM CONTROL PANEL CONNECTION (LUMEN).

T48 18" X 4" WIRE BASKET STYLE CABLE TRAY FOR HORIZONTAL TELECOMMUNICATIONS CABLING. MOUNT CABLE TRAY 4" ABOVE LAY-IN CEILING. COORDINATE WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

T50 1-4" CONDUIT TO IT CLOSET. REFER TO SHEET T-101.

T58 2-4" UNDERGROUND CONDUITS FROM CPB-2.

T62 MOUNT CONDUIT TO WALL ABOVE ROLL UP DOORS.

T65 FLUSH MOUNTED FLOOR BOX. 4 GANG HUBBELL SYSTEMONE ETERNAL OR EQUAL. POWER WITH NUMBER OF CAT6 U/UTP DATA INDICATED. COORDINATE WITH POWER DRAWINGS.

T66 ARLINGTON TVBS507 BOX. POWER AND DATE. # INDICATES CAT6 U/UTP COUNT. COORDINATE WITH POWER DRAWINGS.

T67 CONNECTION FOR LANDSCAPE IRRIGATION CONTROLLER.

T76 STORAGE BOX FLUSH MOUNTED TO WALL.

T84 4- EZ PATH SERIES 44+ FIRE RATED (1 HOUR) PATHWAYS PER DETAIL 4, ON SHEET NO.: T-501.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
DRAWN BY:	ECOOPER
DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

SEAL:

SHEET TITLE:
TECHNOLOGY SYSTEMS SECTOR PLANS - FIRE STATION

SHEET ID:
T-102

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447
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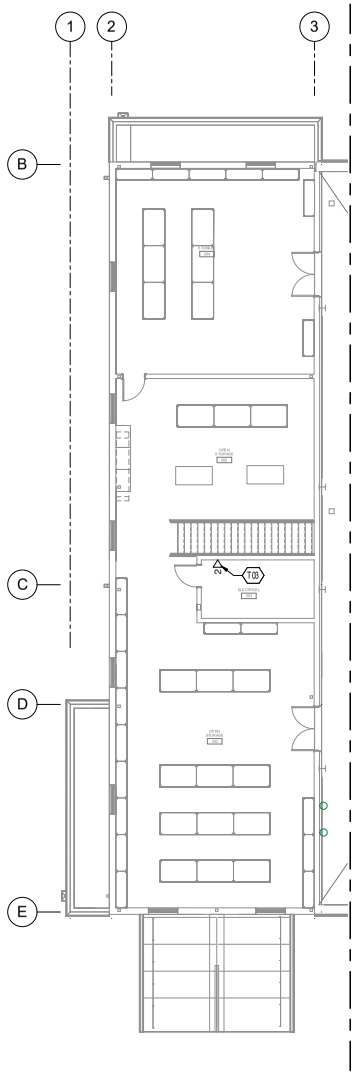
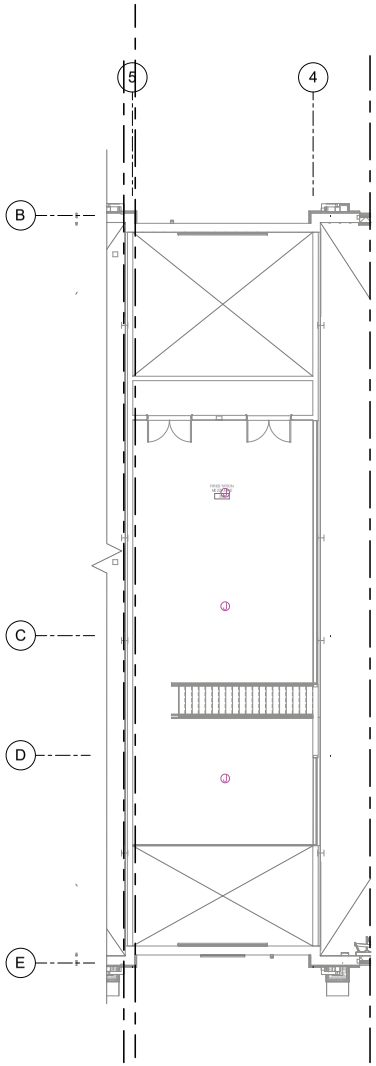


TECHNOLOGY SYSTEMS 2ND FLOOR PLAN - LOGISTICS MEZZANINE

1

SCALE: 1/8" = 1'-0"



TECHNOLOGY SYSTEMS 2ND FLOOR PLAN - FIRE STATION MEZZANINE

2

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. FOR RISER DIAGRAM, SEE SHEET T-601.

KEYNOTES

T03 STANDARD TELECOMMUNICATIONS OUTLET WITH CATEGORY 6 CABLES, QUANTITY AS SHOWN.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

KEY PLAN:

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: KCOOPER
DRAWN BY: ECOOPER
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:

Bicsi

SHEET TITLE:
TECHNOLOGY SYSTEMS SECTOR PLANS - FIRE STATION AND LOGISTICS

SHEET ID:
T-103

PROJECT STATUS:
Construction Documents

Bridges & Paxton Project No: 9047
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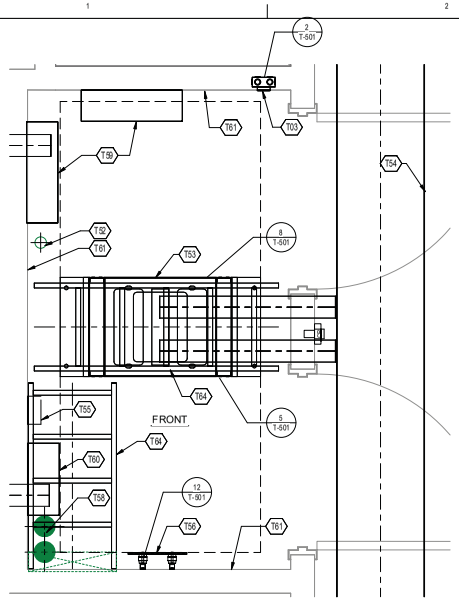
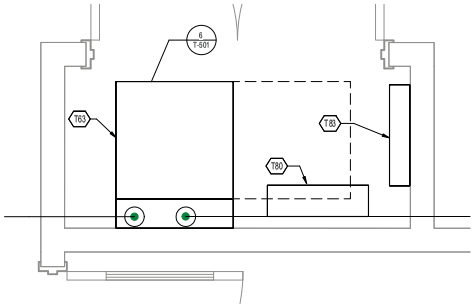


1 TELECOMMUNICATIONS ROOM - FIRE STATION

SCALE: 1" = 1'-0"



2 TELECOMMUNICATIONS ROOM - FLEET MAINT

SCALE: 1" = 1'-0"

GENERAL SHEET NOTES

A. FOR DETAILS REFER TO SHEET T-501.

B. FOR RISER DIAGRAM, SEE SHEET T-601.

C. FOR ACCESS CONTROL SYSTEM RISER DIAGRAM, SEE SHEET T-602.

KEYNOTES

T03 STANDARD TELECOMMUNICATIONS OUTLET WITH CATEGORY 6 CABLES, QUANTITY AS SHOWN.
T52 1-2" CONDUIT FROM IT ROOM TO ROOF FOR ANTENNA.
T53 2 POST TELECOMMUNICATIONS EQUIPMENT RACK - CARD READER, IT AND ALERTING EQUIPMENT. REFER TO DETAIL 12 SHEET T-501.
T54 18"X-4" MESH WIRE CABLE TRAY.
T55 COPPER OSP 110 BLOCK.
T56 TELECOMMUNICATIONS GROUNDING BUSBAR.
T58 2-4" UNDERGROUND CONDUITS FROM CPB-2.
T59 ACCESS CONTROL PANEL. DORMAKABA KEYSCAN CA8500.
T60 COPPER OSP PROTECTOR BLOCK.
T61 3/4" AC GRADE FIRE RESISTANT PLYWOOD (3 WALLS).
T63 WALL MOUNTED EQUIPMENT CABINET HINGED. REFER TO DETAIL 2 ON SHEET T-501.
T64 18"X4" LADDER TYPE CABLE TRAY.
T80 FOR ACCESS CONTROL EQUIPMENT, SEE DETAIL 1 ON SHEET T-401.
T83 ACCESS CONTROL PANEL. DORMAKABA KEYSCAN CA4500.

8 0 8 16

SCALE: 1/8" = 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: KCOOPER
DRAWN BY: ECOOPER
DESIGNED BY: Designer
PROJECT NUMBER: 206110040 00

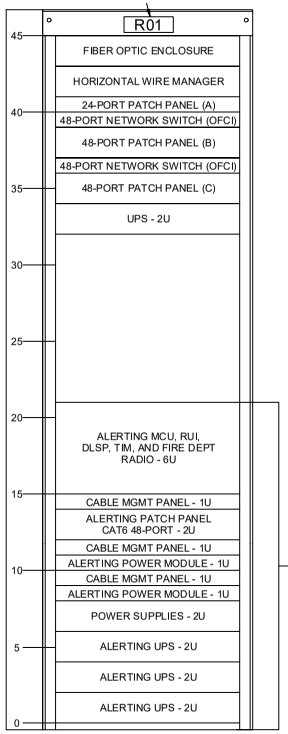
SEAL:

SHEET TITLE:
ENLARGED TECHNOLOGY PLANS

SHEET ID:
T-401

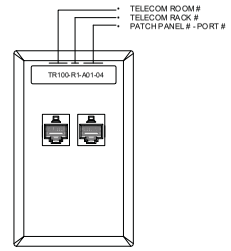
PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9447 1/26/2026 12:03:01 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 12:03:01 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



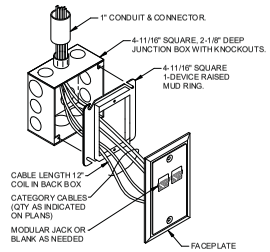
5 TELECOMMUNICATIONS EQUIPMENT RACK FIRE STATION - COMM 124

SCALE: NO SCALE



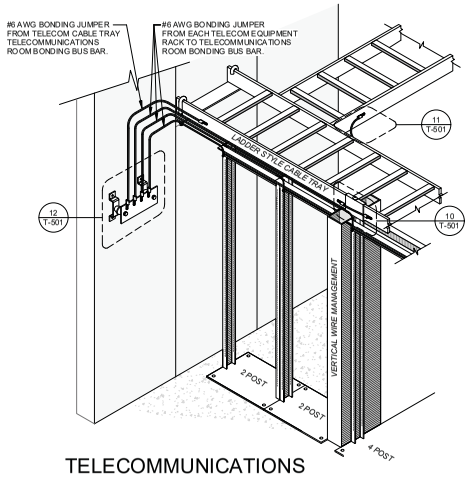
1 STANDARD TELECOM OUTLET IDENTIFICATION SCHEME (TYPICAL)

SCALE: NO SCALE



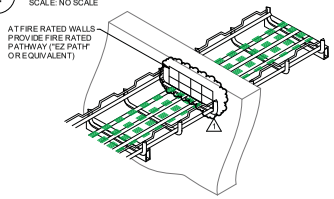
2 TELECOMMUNICATIONS OUTLET BOX DETAILS (TYPICAL)

SCALE: NO SCALE



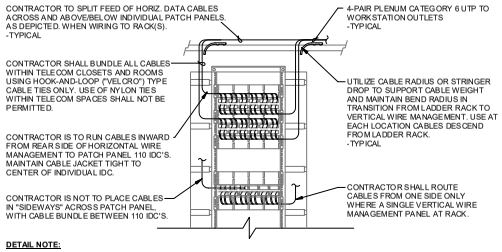
3 TELECOMMUNICATIONS GROUNDING SYSTEM OVERVIEW

SCALE: NO SCALE



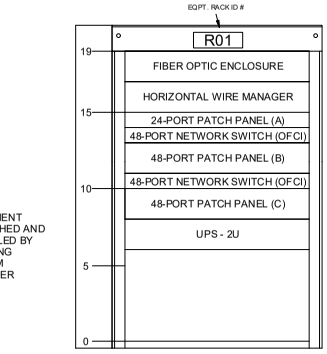
4 CABLE TRAY / FIRE STOPPING

SCALE: NO SCALE



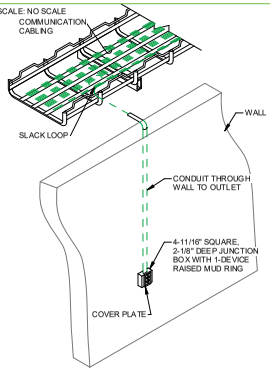
8 TYPICAL TELECOMMUNICATION RACK WIRING METHODOLOGY REAR ELEV.

SCALE: NO SCALE



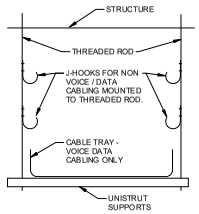
6 TELECOMMUNICATIONS EQUIPMENT RACK LOGISTICS - COMM 153A

SCALE: NO SCALE



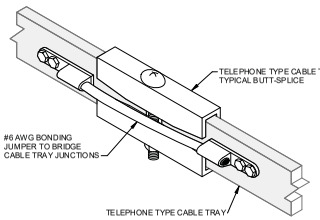
7 TELECOMMUNICATIONS OUTLET CONDUIT ROUTING

SCALE: NO SCALE



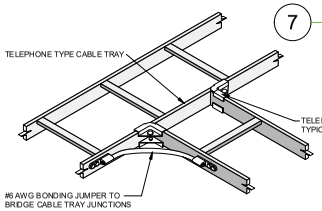
9 CABLE TRAY DETAIL

SCALE: NO SCALE



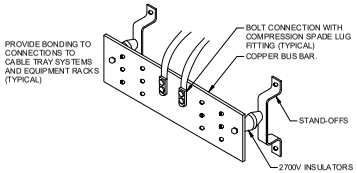
10 TYPICAL CABLE TRAY GROUNDING DETAILS

SCALE: NO SCALE



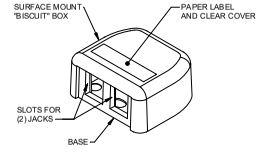
11 TYPICAL CABLE TRAY JUNCTION GROUNDING DETAILS

SCALE: NO SCALE



12 TELECOMMUNICATIONS GROUNDING BUS BAR (TYPICAL)

SCALE: NO SCALE



13 CEILING TELECOM OUTLET IDENTIFICATION SCHEME (TYPICAL)

SCALE: NO SCALE

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102 East Moreno Avenue
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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED: 11/21/2025
REVIEWED BY: KCOOPER
DRAWN BY: ECOOPER
DESIGNED BY: Designer
PROJECT NUMBER: 206110040000

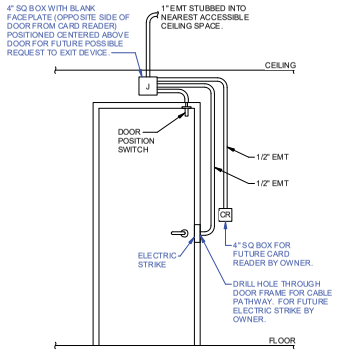
SEAL:

SHEET TITLE:
TECHNOLOGY DETAILS

SHEET ID:
T-501

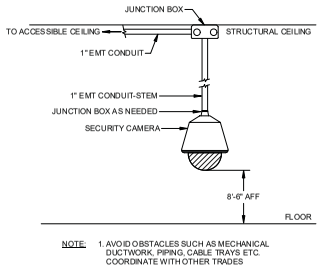
PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 9047 1/26/2026 12:03:02 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 12:03:02 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9047_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt



1 DOOR ROUGH-IN: ACCESS CONTROLLED DOOR

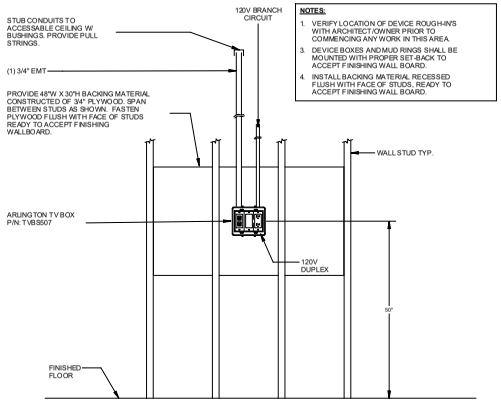
SCALE: NO SCALE



NOTE: 1. AVOID OBSTACLES SUCH AS MECHANICAL DUCTWORK, PIPING, CABLE TRAYS ETC. COORDINATE WITH OTHER TRADES

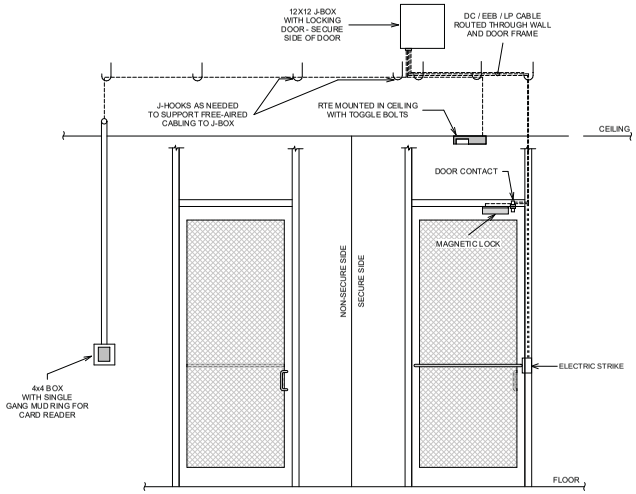
2 CAMERA INTERIOR EXPOSED CEILING MOUNTING DETAIL

SCALE: NO SCALE



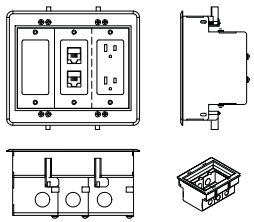
3 ROUGH-IN AND STRUCTURAL BACKING FOR WALL MOUNTED TELEVISION

SCALE: NOT TO SCALE



4 DOOR ROUGH-IN: ACCESS CONTROLLED STOREFRONT DOOR

SCALE: NOT TO SCALE



5 ARLINGTON TVBS507 DETAIL

SCALE: NOT TO SCALE

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
REVIEWED BY: KCOOPER
DRAWN BY: ECOOPER
DESIGNED BY:
PROJECT NUMBER: 20611004000

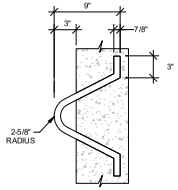
SEAL:

SHEET TITLE:
TECHNOLOGY DETAILS

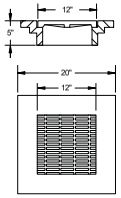
SHEET ID:
T-502

PROJECT STATUS:
Construction Documents

Bridgers & Paxton Project No: 6947 1/26/2026 12:42:52 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt
1/26/2026 12:42:52 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/6947_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

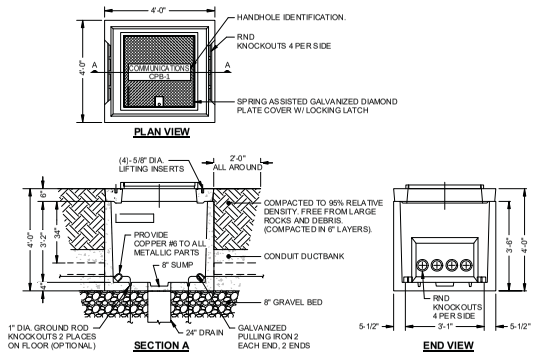


1 PULLING IRON DETAILS
SCALE: NOT TO SCALE



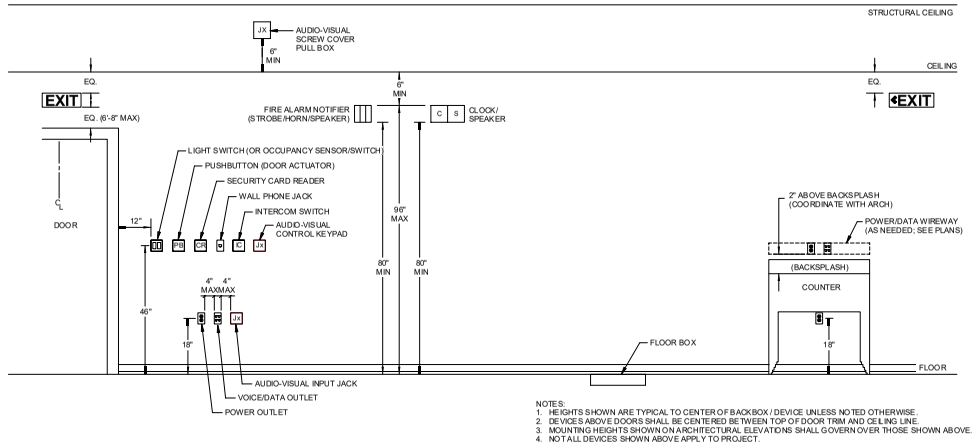
2 SUMP FRAME & COVER DETAILS
SCALE: NOT TO SCALE

NOTES:
1. PROVIDE HEAVY-DUTY, CAST-IRON FRAME WITH NORMAL 30" TO 36" INCHES OF OPENING EQUAL TO NEENAH #R-1640-D WITH A NEENAH TYPE "C" LID WITH PICK HOLES OR APPROVED EQUAL. LID TO BE LETTERED "COMMUNICATIONS" AND NUMBER AS ASSIGNED BY UNM IT.
2. PROVIDE 6 INCH AND 12 INCH GRADE RING RISER CASTINGS AS REQUIRED TO ELEVATE COVER TO APPROXIMATELY 1" ABOVE FINISHED GRADE. INTERNAL DIAMETER OF GRADE RINGS TO BE NOT LESS THAN INTERNAL DIAMETER OF MANHOLE COVER FRAME. VERIFY WITH MANUFACTURER ON AVAILABILITY. CUSTOM GRADE RINGS ARE ACCEPTABLE UPON APPROVAL OF UNM IT. CAST-IRON RINGS, NEENAH #R1979 SERIES OR EQUAL MAY BE USED TO TRIM FINAL ELEVATIONS.
3. REFER TO SPECIFICATIONS SECTION 270543 FOR ADDITIONAL REQUIREMENTS.
4. CONDUIT SHALL ENTER HAND HOLE FROM SIDES ONLY. NO CONDUIT IS ALLOWED TO ENTER HAND HOLE VIA BOTTOM OF HAND HOLE.



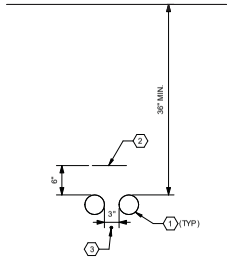
3 4x4 HANDHOLE DETAILS
SCALE: NOT TO SCALE

KEYNOTES
1. 4" SCH. 40 PVC.
2. DETECTABLE WARNING TAPE.
3. NO. #4/0 BARE COPPER.
4. CONCRETE ENCASEMENT.

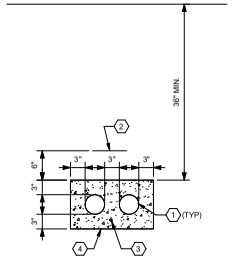


NOTES:
1. HEIGHTS SHOWN ARE TYPICAL TO CENTER OF BACKBOX / DEVICE UNLESS NOTED OTHERWISE.
2. DEVICES ABOVE DOORS SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
4. NOT ALL DEVICES SHOWN ABOVE APPLY TO PROJECT.

5 ELECTRICAL COMPONENT MOUNTING HEIGHTS
SCALE: NOT TO SCALE



4 COMMUNICATIONS DUCTS
SCALE: NOT TO SCALE



6 CONCRETE ENCASED COMMUNICATIONS DUCTS
SCALE: 1"= 1'-0"

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BRIDGERS & PAXTON

PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
DRAWN BY:	ECOOPER
DESIGNED BY:	
PROJECT NUMBER:	206110040000

SEAL:

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SHEET TITLE:
TECHNOLOGY DETAILS

SHEET ID:
T-503

PROJECT STATUS:
Construction Documents

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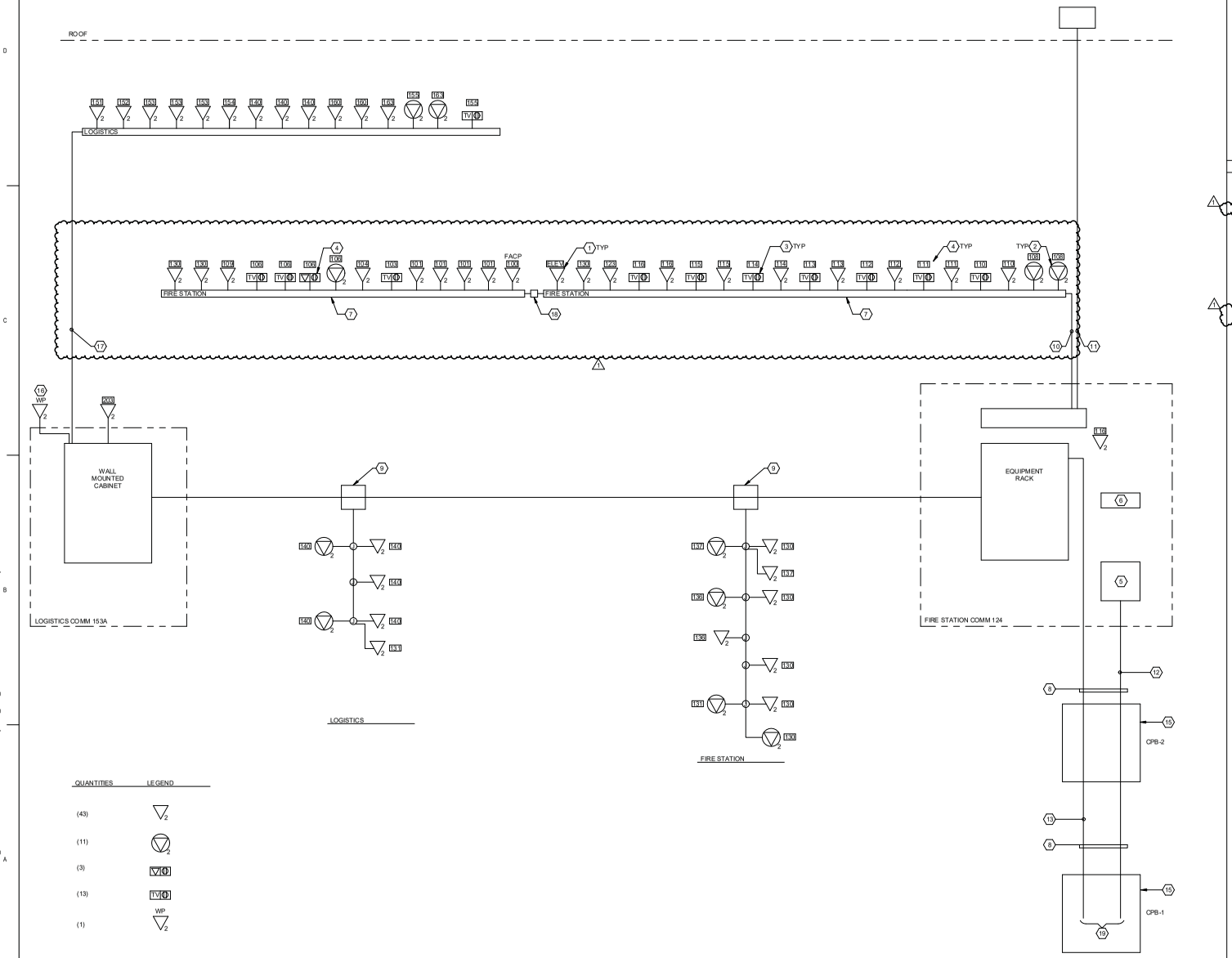

KEYNOTES

1. STANDARD TELECOMMUNICATIONS OUTLET, CATEGORY 6 CABLES AS SHOWN.
2. WIRELESS ACCESS POINT.
3. DELETED ON CONSTRUCTION.
4. FLUSH MOUNTED FLOOR BOX.
5. COPPER OSP PROTECTOR BLOCK.
6. COPPER OSP 110 BLOCK.
7. 19" WIRE TYPE CABLE TRAY.
8. 2-4" UNDERGROUND CONDUITS (LUMEN CONNECTION). 1 - 3"- 3 CELL MAXCELL INNERDUCT IN EACH 4".
9. 24"X24"X8" PULL BOX.
10. 4-4" CONDUITS.
11. 1-2" CONDUIT TO ROOF FOR ANTENNA.
12. LUMEN COPPER OSP CABLES.
13. LUMEN OPTICAL FIBER OSP CABLE.
14. LUMEN OSP CABLE.
15. 4'X4'X4' PULLBOX.
16. LANDSCAPE CONTRACTOR.
17. 1-4" CONDUIT.
18. 4 - EZ PATH SERIES 44+ FIRE RATED (1 HOUR) PATHWAYS.

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PROJECT TITLE:
CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE
1	Plans Resubmittal	01/26/2026

DATE ISSUED:	11/21/2025
REVIEWED BY:	KCOOPER
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DESIGNED BY:	Designer
PROJECT NUMBER:	206110040000

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SHEET TITLE:
RISER DIAGRAM

SHEET ID:
T-601

PROJECT STATUS:
Construction Documents

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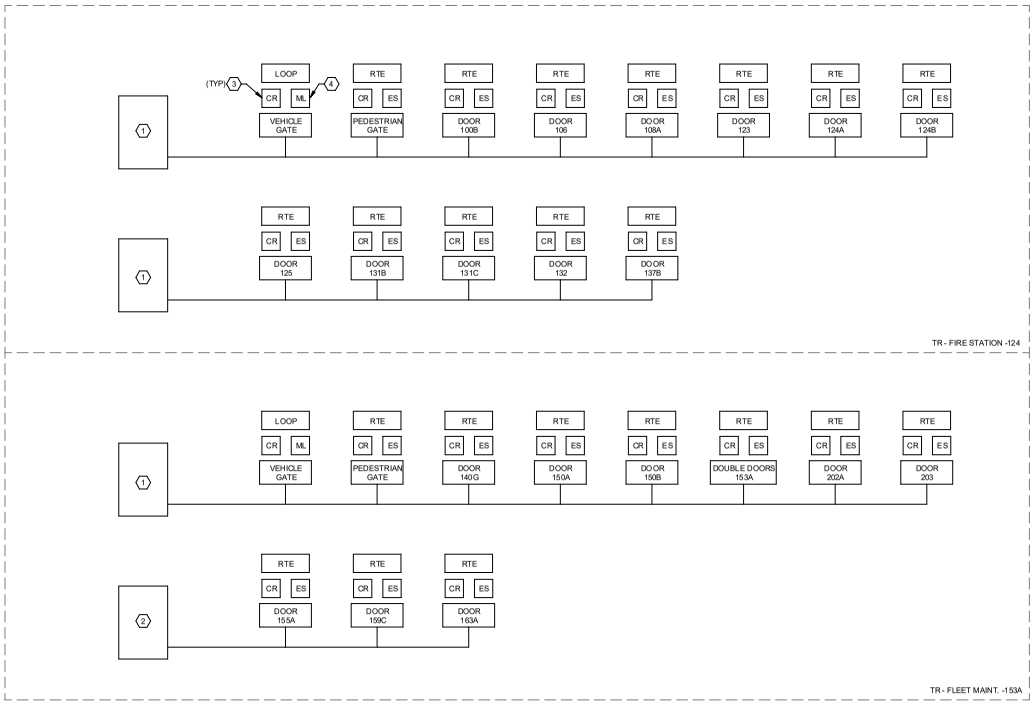

1 ACCESS CONTROL SYSTEM RISER DIAGRAM

SCALE: NOT TO SCALE

GENERAL SHEET NOTES

A. FOR SPECIAL SYSTEMS FLOOR PLANS, SEE SHEETS ET101, ET102, ET103.

B. FOR ENLARGED TECHNOLOGY PLANS, SEE SHEET T-401.

KEYNOTES

1. DORMAKABA KEYSCAN CA8500 ACCESS CONTROL UNIT.
2. DORMAKABA KEYSCAN CA4500 ACCESS CONTROL UNIT.
3. CARD READER HID SIGNO MODEL 40.
4. MAGNETIC LOCK.

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CASTLE ROCK FIRE STATION 156 AND LOGISTICS CENTER

PROJECT ADDRESS:
COBBLESTONE OPEN SPACE - CASTLE OAKS DRIVE

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11/21/2025
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DRAWN BY: ECOOPER
DESIGNED BY: Designer
PROJECT NUMBER: 20611004000

SEAL:

SHEET TITLE:
TECHNOLOGY DIAGRAMS

SHEET ID:
T-602

PROJECT STATUS:
Construction Documents

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1/26/2026 12:03:05 PM Autodesk Docs://16322_Castle Rock Fire Station 156 & Fleet Facility/9447_MEP_Castle Rock Fire Station 156 & Fleet Facility.rvt

CASTLE ROCK
FIRE DEPARTMENT

STATION 156 AND LOGISTICS
Cobblestone Open Space
Castle Oaks Drive

LOCATION MAP

DRAWING INDEX

SHEET NO.	SHEET CONTENTS	07/14/25
COVER	COVER SHEET	●
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AS1.2	LOGISTICS TELECOM, ACCESS CONTROL, CAMERAS LAYOUT PLAN	●
AS3.1	FIRE STATION ALERTING CONDUIT PLAN	●
AS3.2	LOGISTICS TELECOM, ACCESS CONTROL, CAMERAS CONDUIT PLAN	●
AS4.1	ALERT SYSTEM DEVICE DETAILS	●
AS4.2	ALERT SYSTEM DEVICE DETAILS	●
AS4.3	ALERT SYSTEM DEVICE DETAILS	●
AS4.4	ALERT SYSTEM DEVICE DETAILS	●
AS4.5	ALERT SYSTEM DEVICE DETAILS	●

LOW VOLTAGE installations, inc.

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UNIT A4
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COLORADO 80033

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STATION 156 and LOGISTICS
Cobblestone Open Space
Castle Oaks Drive

CASTLE ROCK
FIRE DEPARTMENT

Revisions		
No.	Date	Description
1		
2		
3		

Drawing Scale: N.T.S.

Job Number: 000

Design: XXX CAD: XXX

Sheet Title:
COVER

Sheet Number:
COVER

NORTH

1 FIRE STATION ALERTING LAYOUT PLAN
N.T.S

FIRST-IN FIRE STATION ALERTING
SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DL SP	DATA LINE SURGE PROTECTOR
TIM	TELEPHONE INTERFACE MODULE
CR	CONTROL REMOTE
RIU	RADIO ISOLATION UNIT
AUX	AUXILIARY MODULE
PM UPS	POWER MODULE & UPS BLACK
PM UPS	DUAL MODE POWER MODULE & UPS - BLUE
LC UPS	LIGHT CONTROLLER & UPS GREEN
ACM	APPLIANCE CONTROLLER DEVICE
RS	APPLIANCE RESET SWITCH
AEP	ALERTING END POINT
SC	SATELLIGHT CONTROLLER
S	SATELLIGHT
FSSL	STROBE LIGHT - IN CONJUNCTION WITH ASA
ASLA	ALERTING STROBE LIGHT ADAPTER
DR	DORM REMOTE
DL	DORM LIGHT
VC	VOLUME CONTROL
OSK	OUTSIDE SPEAKER
CSK	CEILING SPEAKER
TT	TURNOUT TIMER
SP	SPEAKER SWITCH
ES	EMERGENCY SWITCH
DB	DOORBELL BUTTON

ACCESS CONTROL AND TELECOM

CR	CARD READER
KP	KEYPAD READER
ACH	ACCESS CONTROL HUB
ACM	ACCESS CONTROL HUB MINI
VKR	VIDEO DB - KEYPAD READER
911	911 PHONE

TELECOMMUNICATION OUTLET
#6 CAT6 WHT

WIRELESS ACCESS POINT

COAX — WALL PHONE

CAMERA

GENERAL NOTES

1. DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
2. CONDUIT SIZE TO BE 3/4" UNLESS OTHERWISE SPECIFIED.
3. ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
4. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES.
5. DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SB-FIRST-A).
6. DEVICES ONLY LOCATED IN SHEETROCK OR PLYWOOD CEILINGS REQUIRE HOF FRAN BRAND 10X8X4 BACK BOX.
7. LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
8. ALL WIRING AND DEVICES TO BE INSTALLED BY LVI.
9. ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
10. DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
11. ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
12. IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE (NOT IN CONDUIT).
13. IN GYPSUM BOARD CEILING (SHEETROCK / HARD LID), WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT IS (E) OTHERWISE NOTED.
14. IN EXPOSED AREAS ONLY, 3X3X4 HOFFMAN BACK BOX MOUNTED AT +15'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH CONDUIT TO ACCESSIBLE CEILING SPACE, KEEP CLEAR OF OBSTRUCTIONS.
15. AN INDIVIDUAL GAS CONTROL VALVE IS REQUIRED FOR EACH COOKING APPLIANCE WITH A RESET SWITCH WITHIN 6'-0" FT. OF EACH COOKING APPLIANCE.
16. A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
17. THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
18. SQUARE, HEXAGON SINGLE GANG RING MOUNTED AT 30" A.F.F. UNLESS OTHERWISE SPECIFIED. CONDUIT TO

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Cobblestone Open Space
Castle Oaks Drive

CASTLE ROCK
FIRE DEPARTMENT

Revisions		
No.	Date	Description
1		
2		
3		

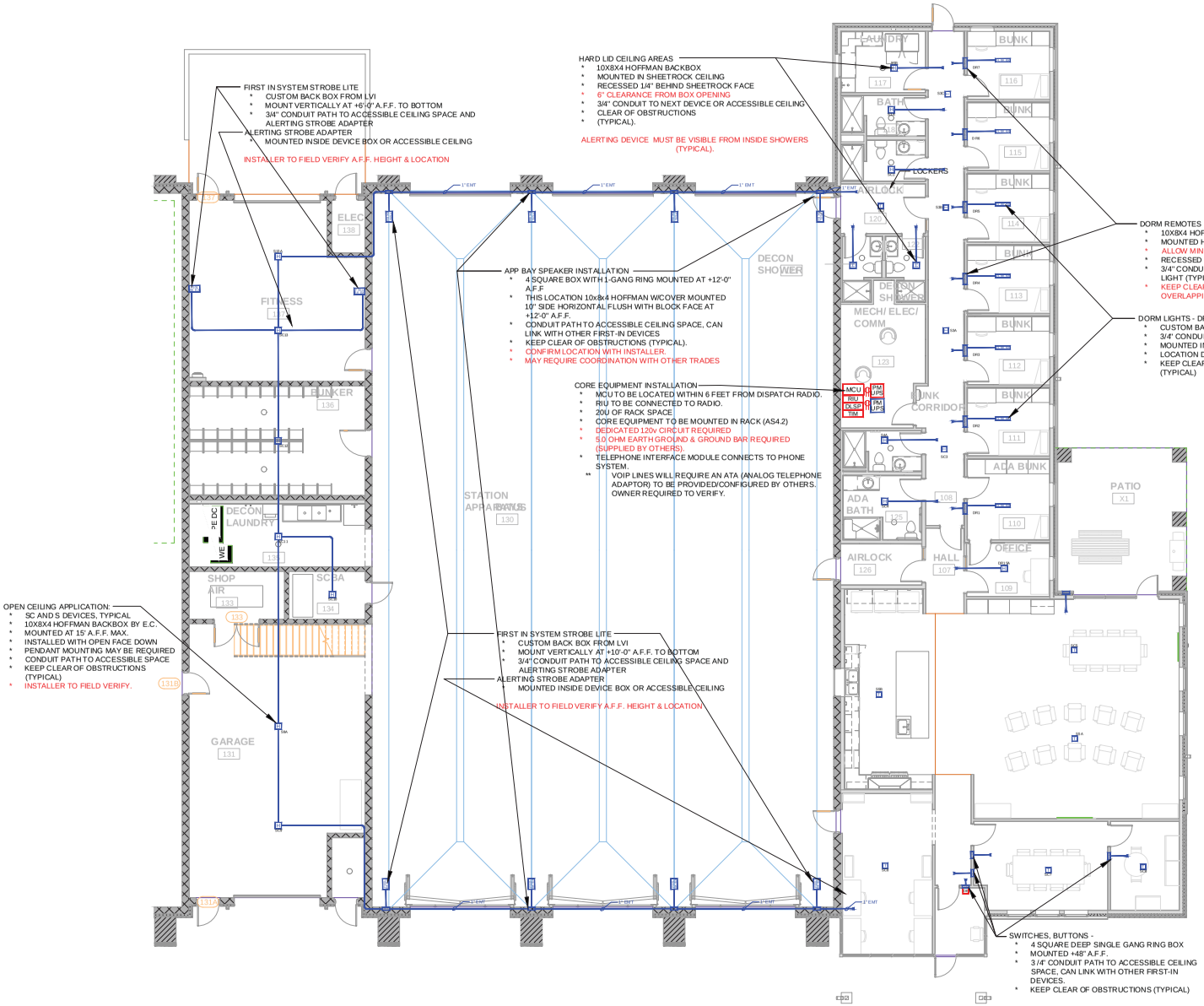
Drawing Scale: N.T.S.

Job Number: 000

Design: XXX CAD: XXX

Sheet Title:
FIRE STATION ALERTING LAYOUT PLAN

Sheet Number:
AS1.1



1 FIRE STATION ALERTING CONDUIT PLAN
N.T.S

NORTH

FIRST-IN FIRE STATION ALERTING SYMBOL LEGEND

MCU	MASTER CONFROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
TIM	TELEPHONE INTERFACE MODULE
CR	CONTROL REMOTE
RIU	RADIO ISOLATION UNIT
AUX	AUXILLIARY MODULE
PM UPS	POWER HUB-SPOKE & UPS BLACK (DEDICATED 120V CIRCUIT REQUIRED)
AX UPS	POWER DUAL MODE & UPS BLACK (DEDICATED 120V CIRCUIT REQUIRED)
UPS GREEN	LIGHT CONTROLLER & UPS GREEN (DEDICATED 120V CIRCUIT REQUIRED)
	APPLIANCE CONTROL DEVICE (DEDICATED 120V CIR CUIT REQUIRED, 8 X 10 X 4 HOFFMAN BACKBOX
SPK	HIGH POWERED SPEAKER OR OUTSIDE SPEAKER 4 SQUARE DEEP BACKBOX REQUIRED
	OUTSIDE SPEAKER AUDIO MODULE 8 X 10 X 4 HOFFMAN BACKBOX
HPA	HIGH POWERED AMPLIFIER DEVICE 8 X 10 X 4 HOFFMAN BACKBOX
	ALERTING END POINT (DEDICATED 120V CIRCUIT REQUIRED, 4 SQUARE DEEP BACKBOX REQUIRED
	TURNOUT TIMER 4 SQUARE DEEP BACKBOX REQUIRED
	COMPANY INDICATOR 4 SQUARE DEEP BACKBOX REQUIRED
DRM RM	DORM REMOTE BACK BOX 10 X 8 X 4 HOFFMAN BACKBOX
DRM LITE	DORM LITE BACK BOX CUSTOM WESTNET BACK BOX
	8 X 10 X 4 HOFFMAN BACK BOX
	ACOUSTIC CEILING KIT
STR	STROBE LIGHT BACK BOX CUSTOM WESTNET BACK BOX

GENERAL NOTES

1. DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
2. CONDUIT SIZE TO BE 3/4" UNLESS OTHERWISE SPECIFIED.
3. ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
4. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES.
5. DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SILENT-I) .
6. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 10X8X4 BACKBOX.
7. LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
8. ALL WIRING AND DEVICES TO BE INSTALLED BY LVI.
9. ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED IF OR CONSTRUCTION BY OTHERS.
10. DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
11. ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
12. IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE. (NOT IN CONDUIT).
13. IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID) WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
14. IN EXPOSED AREAS ONLY 10X8X4 HOFFMAN WITH 3/4" CONDUIT AT +6'-0" A.F.F. MIN. OPEN FACE DOWN AT ENTRANCE OF ROOM WITH CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
15. AN INDIVIDUAL GAS CONTROL VALVE IS REQUIRED FOR EACH COOKING APPLIANCE WITH A RESET SWITCH WITHIN 6'-0" FT. OF EACH COOKING APPLIANCE.
16. A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
17. THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
18. 4 SQUARE J-BOX WITH SINGLE GANG RING MOUNTED AT 18" A.F.F. UNLESS OTHERWISE SPECIFIED. CONDUIT TO ACCESSIBLE SPACE.

* **CONDUIT ROUTING IS FOR REFERENCE ONLY**
* **CONDUIT INSTALLER PLACE PULL BOXES AS NEEDED**
* **CONDUIT BENDS NOT TO EXCEED 360 DEGREES**
* **PROVIDE PULL STRING**
* **CONDUIT FILL AT 40% FOR CAT 6 CABLE (.215 inch diameter)**

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FIRE DEPARTMENT

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No.	Date	Description
1		
2		
3		

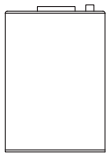
Drawing Scale: N.T.S.

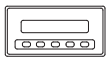
Job Number: 000

Design: XXX CAD: XXX

Sheet Title:
FIRE STATION ALERTING CONDUIT PLAN

Sheet Number:
AS3.1





01 MASTER CONTROL UNIT - MCU
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

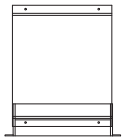
MCU MASTER CONTROL UNIT

- THE MASTER CONTROL UNIT IS THE COMMAND CENTER OF THE SMART STATION NETWORK.
- THE MASTER CONTROL UNIT SHALL ACCEPT ALARM INPUTS FROM UP TO (4) RADIOS, DEDICATED PHONE LINES, POTS TELEPHONE LINES, SERIAL DATA LINES, AS WELL AS TCP/IP ETHERNET NETWORKS.
- THE MASTER CONTROL UNIT SUPPORTS THE FULL 2R COMMAND SET.
- THE MASTER CONTROL UNIT SHALL MEET THE NFPA REQUIREMENT 1221 FOR SUPERVISED COMMUNICATIONS FOR ALERTING WITH THE DISPATCH CENTER.
- ALARM AUDIO LEVELS SHALL BE CONTROLLABLE OVER A (30) DECIBAL RANGE IN (1) DECIBAL INCREMENTS.
- RADIO AUDIO LEVEL'S SHALL BE CONTROLLABLE OVER A (30) DECIBAL RANGE IN (1) DECIBAL INCREMENTS.
- THE ENTIRE FIRE STATION ALERTING LEVEL SHALL BE AUTOMATICALLY REDUCED AT NIGHT AND RETURNED TO NORMAL LEVELS IN THE MORNING AUTOMATICALLY.
- OUTSIDE SPEAKERS SHALL BE AUTOMATICALLY TURNED OFF AT NIGHT AND TURNED BACK ON IN THE MORNING AUTOMATICALLY.
- PRIMARY PROGRAMMING SHALL BE ACCOMPLISHED FROM THE FRONT PANEL, WHILE SECONDARY PROGRAMMING IS ACCOMPLISHED WITH THE SMART STATION SERVICE VIA COMPUTER.
- FRONT PANEL PROGRAMMING SHALL BE LIMITED TO PLACING THE STATION IN RADIO WATCH OR REMOVING THE STATION FROM RADIO WATCH.
- THE MASTER CONTROL UNIT SHALL BE POWERED FROM AN "ON-LINE" UPS FOR UNINTERRUPTIBLE ALERTING SERVICE.

02 CONTROL REMOTE - CR
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

CR CONTROL REMOTE

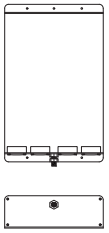
- WHEN THE ALARM SYSTEM TRIGGERS, THE CONTROL REMOTE CAN OPEN BAY DOORS, TURN ON BAY LIGHTS, OPEN GATES, AND/OR SENSE INPUTS FROM CO DETECTORS IN APPARATUS BAYS.
- PROVIDES (8), DOUBLE POLE, DOUBLE THROW (DPDT) RELAYS UNDER SOFTWARE CONTROL OF THE MASTER CONTROL UNIT.
- PROVIDE (4) REMOTE SENSING INPUTS TO COLLECT DATA RELEVANT TO THE CONTROL FUNCTIONS.
- ENABLES THE MASTER CONTROL UNIT TO OPERATE FIRE STATION ALERTING EQUIPMENT THAT IS NOT SMART STATION COMPATIBLE.
- ALL RELAYS SHALL BE ZONE, TIME DELAY AND TIME OF DAY CONTROLLABLE IN ANY COMBINATION NECESSARY.
- SHALL PROVIDE CONTROL AND SENSE CAPABILITY THROUGHOUT THE NETWORK AT ANY LOCATION.
- RELAYS SHALL BE RATED AT (5) AMPS AT (24) VOLTS DC OR AC.
- MECHANICAL LIFE OF THE RELAY CONTACTS SHALL BE A MINIMUM OF (5) MILLION OPERATIONS.
- RELAYS SHALL BE USED TO CONTROL THE OVEN RANGES IN THE KITCHEN, OPERATION OF EACH APPARATUS BAY DOOR INDEPENDANTLY, AND CONNECTION OF CARBON MONOXIDE SENSORS TO THE SYSTEM. COORDINATE ALL ELECTRICAL CONTACTS AND RELAYS REQUIRED FOR LINE VOLTAGE CIRCUITS TO INTERFACE WITH CONTROL REMOTE DEVICES.
- WESTNET ALERT SYSTEM PROVIDES ONLY DRY CONTACTS RATED AT 24 VOLTS MAX., NO VOLTAGE IS SUPPLIED



03 STATION PAGING MODULE - PAG
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

TIM TELEPHONE INTERFACE MODULE

- SHALL BE UTILIZED FOR PAGING PERSONNEL WITHIN THE FIRE STATION.
- SHALL INTEGRATE THE FIRE STATION TELEPHONE SYSTEM INTO ALL AUDIO UNITS, SUCH AS COMBINATION SPEAKER/LIED LIGHT DEVICES PROGRAMMABLE SPEAKER/RED GLOW LIGHT DEVICES AND HIGH POWER AMPLIFIERS.
- REQUIRES CONDUIT SLEEVE TO STATION TILE/COMM ROOM



04 RADIO ISOLATION UNIT - RIU
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

RIU RADIO ISOLATION UNIT

- SURGE PROTECTION DEVICE CONNECTED TO RADIO ANTENNAS EXTEND GROUND WIRE FROM UNIT TO LIGHTING PROTECTION SYSTEM.

ALERTING SYSTEM OVERVIEW PLEASE READ

Most contractors are unfamiliar with what the Alerting System is and the capabilities of the system. The overall function of the alerting system is to reduce the response time of the received calls from 35 to 45 seconds using visual and audio alerts for dispatched units. This system is installed as a large communication loop utilizing CAT 5 cabling with very limited connections to the existing building.

There are several common questions that are generally asked during the rough in stages for our system:

Does the back box specified need to be a Hoffman Brand - Part #A3050 - Cat #A-S8BX10X4 for Dorm Remotes (DR) and Satellite Controllers (SC)? YES, the mounting flanges for these devices specifically made for this type of box. This eliminates re-tapping of the box and quicker installation time.

Can power receptacles be relocated? YES, at a maximum of six (6) feet from plan indication.

Can conduit differ from plans? NO, the routing of the conduit is very specific and is the link from device to device creating the over all communication loop.

There is a spacing conflict with the Dorm Remote (DR), Thermostat, Light Switch, and Telephone location next next to the door jamb. Can this be relocated? YES, this can be moved away from the door jamb, generally between the light switch and thermostat is most common, for the occupants to monitor their dispatched calls. Refer to notes on AS.01. The mounting flange will require 1/8" space between light switch and next device for the horizontally mounted Hoffman back box.

Can devices be relocated? YES, but at a maximum of six (6) feet. Please keep in mind of equal spacing of devices for an even audio and visual coverage; this is important when announcing dispatched calls. Also, the cabling is pre-manufactured and is designated for that device. Relocation of devices at more than six (6) feet from indicated location will need approval by Westnet.

How is the Hoffman Brand - Part #A3050 - Cat #A-S8BX10X4 boxes to be mounted? For Dorm Remotes (DR), the back box is to mount horizontally, 10" wide and 8" tall, recessed 1/8" into the sheetrock wall, at 48" to centerline, above finished floor. The mounting flange covers the back box opening and pulls flush against the sheetrock.

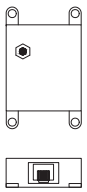
For Satellite Controllers (SC), that is to be mounted into sheetrock ceilings, the back box will run, the 10" side, with the length of the room, in the center, free from obstructions, avoiding other trades, recessed 1/8" into sheetrock, and mounted at a maximum of 15' above finished floor. Back boxes installed in open areas will be mounted at a maximum of 15' above finished surface, free from obstructions, avoiding other trades, recessed 1/8" into sheetrock, and mounted at a maximum of 15' above finished floor. Back boxes installed in open areas will be mounted at a maximum of 15' above finished surface, free from obstructions, with length of room, and visible from all points in the rooms. Westnet does not assume the responsibility for poor installation of back boxes. Refer to notes on AS.01.

What is the function of the Control Remote (CR)? This device can perform multiple functions, opening apparatus bay doors, gates, corridor lighting, etc.
Any equipment that is shows to be connected that are to be controlled by the CR will need a control voltage of 24 Volts that is NOT supplied by Westnet. The terminal rating is a maximum of 24V on the CR.

What is the MCU? This is the brains of the system. Received calls go thru this device and are announced throughout the system. This is most commonly the only connection that is made to the existing communications. This is to be located within six (6) feet of the dispatch radio in watch room or communication center of station.

These are just a few of the issues that you may have questions about.
There is to be no alteration of the system without the approval of Westnet.

If there are more questions or concerns about the rough in for installation, please call 1-800-807-1700



DATA LINE SURGE SUPPRESSOR - DLSP

- SHALL BE UTILIZED FOR SURGE PROTECTION OF THE LAN FEED FROM SWITCH
- SHALL BE GROUNDED TO 5 OHM GROUND PLATE
- SHALL BE LOCATED WITHIN 6 FEET OF MCU

1 DEVICE DETAILS
N.T.S

LOW VOLTAGE INSTALLATIONS, INC.
5160 PARFET STREET
UNIT A4
WHEAT RIDGE
COLORADO 80033

PH: 844-LOW-VOLT

WWW.LVOLTAGE.COM

STATION 15 RELOCATION
Cobblestone Elementary School
10155 VALLEY STREET
COLORADO SPRINGS, CO 80915
Castle Oaks Drive

CASTLE ROCK
FIRE DEPARTMENT

Revisions		
No.	Date	Description
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3		

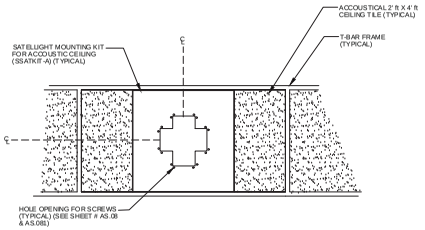
Drawing Scale: N.T.S.

Job Number: 000

Design: XXX CAD: XXX

Sheet Title:
DEVICE DETAILS

Sheet Number:
AS4.1

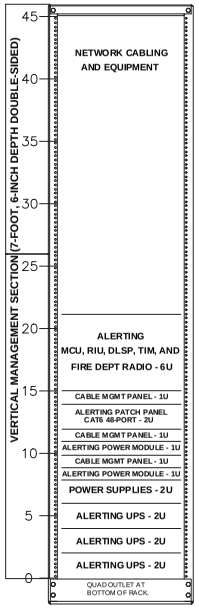


D 929 SSATKIT-A

Satellight Mounting Kit - Acoustic Ceiling (A-Kit)

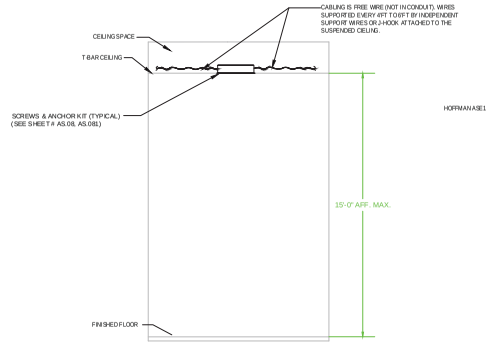
Note:
Kit used for mounting on drop-tile ceilings. Compatible products include:
1. Satellight Controllers 2. Satellights 3. Dorm lights

03 TYPICAL T-BAR PANEL INSTALLATION
N.T.S.

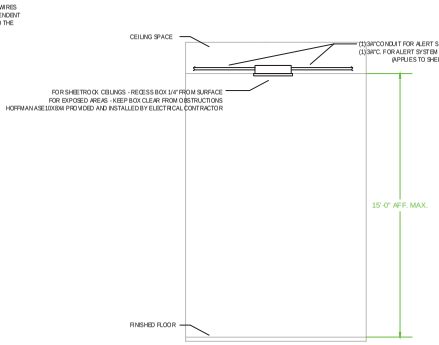


ALERTING LAYOUT

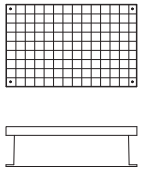
01 SMART STATION RACK DIAGRAM
N.T.S.
RACK PROVIDED BY OTHERS



SATELLIGHT CONTROLLER T-BAR MOUNTING DETAIL



SATELLIGHT CONTROLLER COUNDUIT MOUNTING DETAIL



03 SATELLIGHT CONTROLLER - SC
N.T.S.
RE: WISTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

SATELLIGHT SPEAKER - S
N.T.S.
RE: WISTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

SC SATELLIGHT CONTROLLER

KSC KNIGHT LITE SATELLIGHT CONTROLLER

- SHALL OPERATE ON A CAT 5 SMART STATION PRIMARY ALARM NETWORK, WHICH IS DRIVEN FROM THE MCU.
- OPERATE INDEPENDENTLY OR DRIVE UP TO (5) OR (4) DEVICES DEPENDING UPON THE LOCATION IN THE FIRE STATION.
- AUDIO OUTPUT SHALL BE CONTROLLED BY SOFTWARE FROM THE MASTER CONTROL UNIT.
- AUDIO OUTPUT SHALL BE ADJUSTABLE ACROSS A (90) DECIBAL RANGE.
- SHALL BE CAPABLE OF INTELLIGENT SENSING AND CONTROL OF FIRE STATION SYSTEMS AND EQUIPMENT. CONTROLLER SHALL UTILIZE BI-DIRECTIONAL DATA THROUGHOUT THE SMART STATION NETWORK AND EXTEND CAPABILITY TO THE FIRE DEPARTMENT DISPATCH CENTER.
- SHALL BE MOUNTED IN THE CEILING TO PROVIDE ALARM COVERAGE THROUGHOUT THE STATION.
- ACOUSTICAL CEILING MOUNTING SECURES THE DEVICE TO THE T-BAR RAILS AND THE SUPERSTRUCTURE OF THE BUILDING.
- DRYWALL AND PLASTER CEILING MOUNTING HARDWARE SHALL UTILIZE METAL HARDWARE THAT IS COLOR-MATCHED TO THE LAMP ASSEMBLY.

S SATELLIGHT, SPEAKER/LED LIGHT

KS KNIGHT LITE SATELLIGHT, SPEAKER/LED LIGHT

- SHALL OPERATE ON A CAT 5 ALARM SUBNETWORK, WHICH IS DRIVEN FROM A DEVICE CONTROLLER.
- AUDIO OUTPUT FROM THE DEVICES SHALL BE SET BY THE SOFTWARE FROM THE CONTROLLER.
- AUDIO OUTPUT SHALL BE ADJUSTABLE ACROSS A (30) DECIBLE RANGE.
- THE LIGHTING OUTPUT SHALL INCREASE AUTOMATICALLY DURING THE FIRST FEW SECONDS OF THE ALARM SEQUENCE.
- SHALL BE MOUNTED IN CEILING TO PROVIDE ALARM COVERAGE THROUGHOUT THE STATION.
- ACOUSTICAL CEILING MOUNTING SECURES THE DEVICE TO THE T-BAR RAILS AND THE SUPERSTRUCTURE OF THE BUILDING.
- DRYWALL AND PLASTER CEILING MOUNTING HARDWARE INSTALLS DEVICES INTO THE SE CEILINGS.

1 DEVICE DETAILS
N.T.S

LOW VOLTAGE Installations, Inc.
5160 PARFET STREET
UNIT A4
WHEAT RIDGE
COLORADO 80033
PH: 844-LOW-VOLT
WWW.LVOLTAGE.COM

STATION 156 and LOGISTICS
Cobblestone Corporate Campus
COLORADO SPRINGS, CO 80915

CASTLE ROCK
FIRE DEPARTMENT

Revisions		
No.	Date	Description
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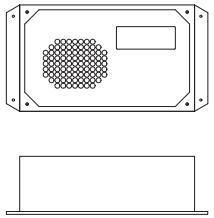
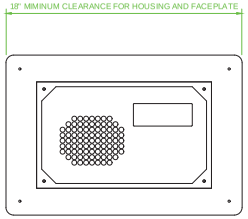
Drawing Scale: N.T.S.
Job Number: 000
Design: XXX CAD: XXX
Sheet Title: DEVICE DETAILS
Sheet Number: AS4.2





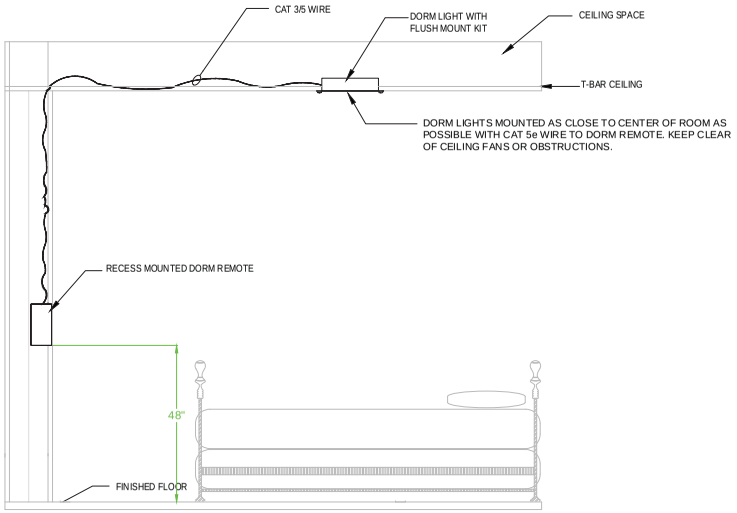
DORM REMOTE WITH ATTACHED FACEPLATE

RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

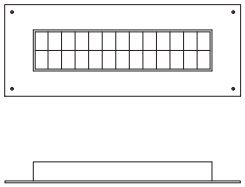
01 DORM REMOTE - DR
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

DR DORM REMOTE WITH LIGHT

- SPEAKER/LIGHT DEVICES SHALL BE FIREFIGHTER PROGRAMMED TO ACTIVATE ON ALL ALARMS STARTING AT SHIFT CHANGE.
- THE DEVICE AUDIO SHALL BE ADJUSTED OVER A (60) DECIBLE RANGE IN (1) DECIBLE INCREMENTS TO AID IN THE REDUCTION OF AUDIBLE SHOCK THAT OCCURS WHEN THE FIREFIGHTER AWAKENS TO AN ALARM.
- THE LIGHTING SHALL INCREASE DURING THE FIRST FEW SECONDS OF THE ALARM SEQUENCE TO REDUCE OPTICAL SHOCK UPON AWAKENING.
- THE LIGHT OUTPUT SHALL BE ADJUSTABLE BY EACH FIREFIGHTER.
- **INSTALLED WITH VISIBLE FRONT DISPLAY PANEL AND SPEAKER TOWARD THE SLEEPING AREA.**
- MUST BE MOUNTED 2'-0" FROM HEAD OF BED IF LOCATED BY DOOR JAMB AND/OR SWITCHES
- THE TWO-LINE DISPLAY SHALL BE USED FOR DISPLAYING TEXT MESSAGING.
- THE DEVICE SHALL OPERATE UP TO (4) COMBINATION SPEAKER/LED LIGHT DEVICES FOR ZONE CONTROLLED SLEEP AREAS.
- THE DEVICE SHALL BE DESIGNED TO BE WALL OR ROOM DIVIDER MOUNTED AT (2) FEET ABOVE THE HEAD OF THE BED TO PROVIDE ILLUMINATION FOR THE BED AND THE FLOOR.
- THE DEVICE CAN BE SURFACE MOUNTED.
- ALL CONNECTIONS SHALL BE MODULAR PLUGS ENABLING RELOCATION OF DORM REMOTE WITH MINIMUM EFFORT.



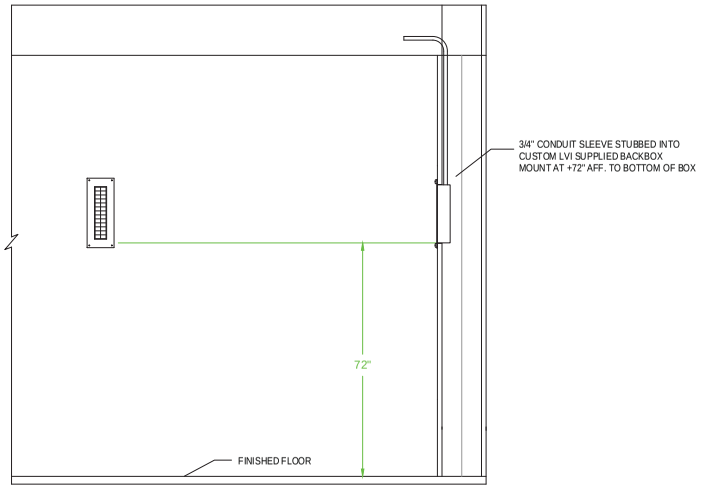
DORM REMOTE / DORM LIGHT MOUNTING DETAIL



DORM LIGHT - DL

02 FSAS WALL LITE
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

1 DEVICE DETAILS
N.T.S



FSAS DORM LIGHT STROBE LAYOUT

LOW VOLTAGE Installations, Inc.
5160 PARFET STREET
UNIT A4
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PH: 844-LOW-VOLT
WWW.LVOLTAGE.COM

STATION 15 & STATION 2 LOGISTICS
Cobblestone Open Space
1015 VALLEY STREET
COLORADO SPRINGS, CO 80915
Castle Oaks Drive

CASTLE ROCK
FIRE DEPARTMENT

Revisions		
No.	Date	Description
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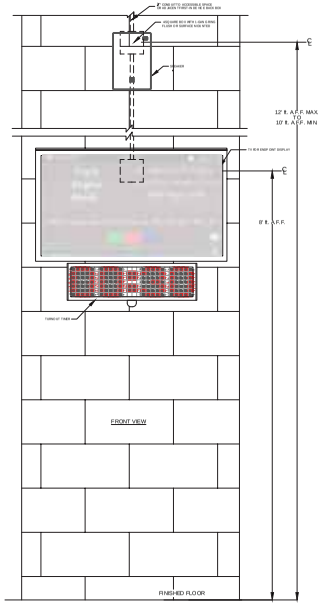
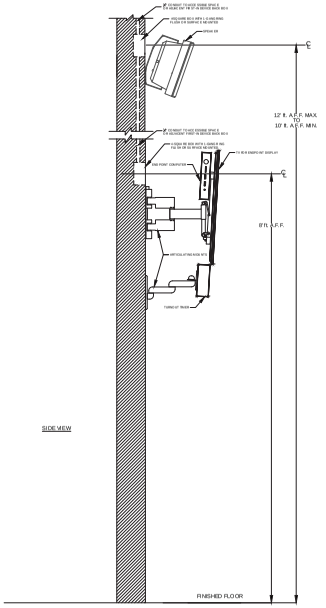
Sheet Title: DEVICE DETAILS
Sheet Number: AS4.3

AEP ALERTING END POINT MONITOR - (SIZE VARIES)

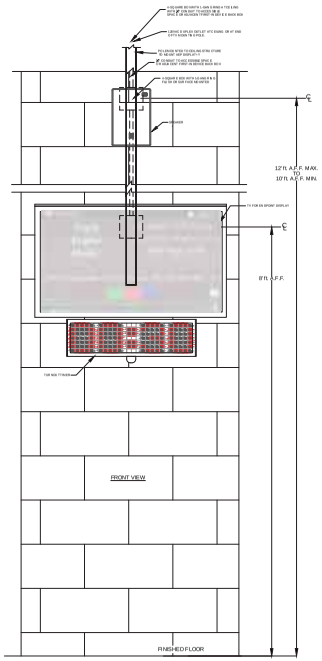
- SHALL BE TEXT AND GRAPHICS IMAGING SIGNS THAT ARE CONTROLLED FROM THE MASTER CONTROL UNIT IN A SMART STATION SYSTEM
- SHALL BE USED TO DISPLAY THE COMPANIES ASSIGNED TO THE CALL AND ADDITIONAL INFORMATION SUCH AS THE ADDRESS OF THE CALL
- SHALL PROVIDE ALERTING INFORMATION THAT IS TOTALLY IMMUNE FROM HIGH NOISE LEVELS OF APPARATUS ROOMS AND AIR CRAFT FACILITIES.
- REQUIRES 120V RECEPTACLE AND NETWORK CONNECTION
- SIZE DETERMINED BY INSTALLER



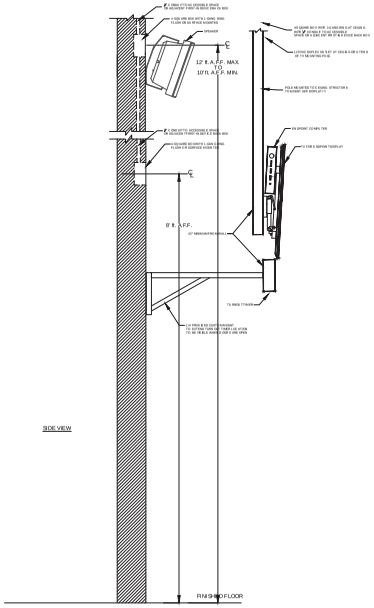
01 APPARAUS BAY COLUMN TYPICAL LAYOUT - FRONT VIEW
N.T.S.



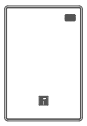
02 APPARAUS BAY COLUMN TYPICAL LAYOUT - SIDE VIEW
N.T.S.

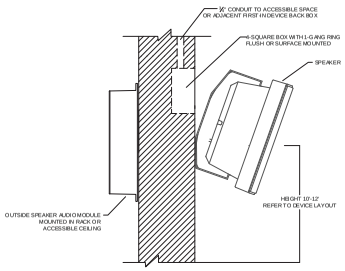


03 APPARAUS BAY COLUMN POLE MOUNT TV LAYOUT - FRONT VIEW
N.T.S.

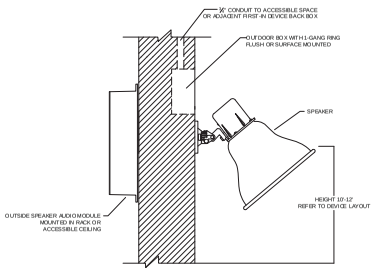


04 APPARAUS BAY COLUMN POLE MOUNT TV LAYOUT - SIDE VIEW
N.T.S.





05 OUTSIDE SPEAKER AUDIO MODULE AND SPEAKER - COVERED EXTERIOR
N.T.S.



06 OUTSIDE SPEAKER AUDIO MODULE AND SPEAKER - EXPOSED EXTERIOR
N.T.S.

LOW VOLTAGE Installations, INC.
5160 PARFET STREET
UNIT A4
WHEAT RIDGE
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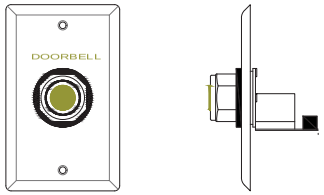
Job Number: 000

Design: XXX CAD: XXX

Sheet Title:
DEVICE DETAILS

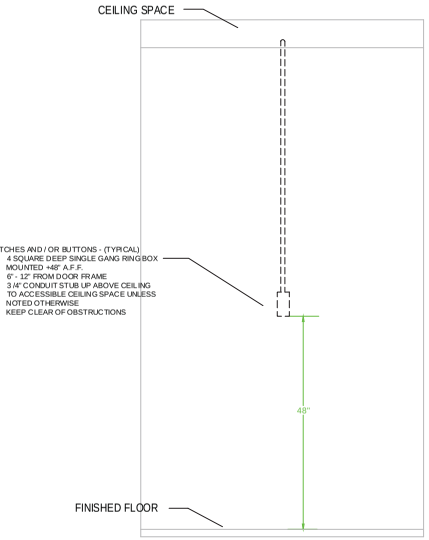
Sheet Number:
AS4.4



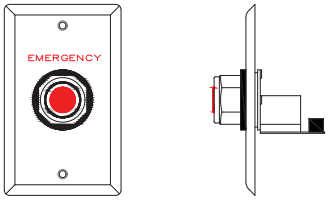
DB DOORBELL - DB
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

DB DOORBELL

- SHALL NOTIFY PERSONNEL OF VISITOR ON FIRE STATION GROUNDS.
- NOTIFICATION OF VISITOR SHALL BE RELAYED TO DISPATCH CENTER.
- SHALL NOTIFY FIRE PERSONNEL AT WHICH DOOR THE VISITOR IS WAITING.
- SHALL PROVIDE BOTH AUDIBLE AND VISUAL NOTIFICATION OF DOORBELL ACTIVATION.
- PROVIDE CUSTOMIZED MESSAGES AND ALERT TONES.



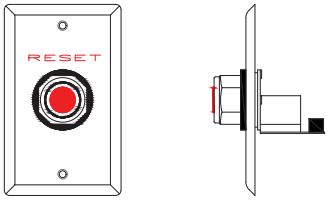
SWITCH/BUTTON MOUNTING DETAIL (TYP.)



EMERGENCY BUTTON - EB
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

EB EMERGENCY BUTTON

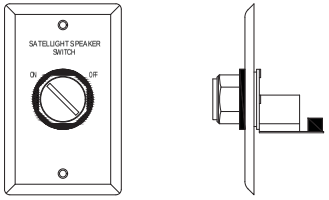
- SHALL NOTIFY PERSONNEL OF EMERGENCY ON FIRE STATION GROUNDS.
- SHALL ENABLE THE FIRE FIGHTER TO ANSWER THE DOOR AND ATTEND TO THE PROBLEM IMMEDIATLY.
- SHALL NOTIFY DISPATCH CENTER OF INCIDENT OCCURANCE AT THE FIRE STATION.
- SHALL PROVIDE BOTH AUDIBLE AND VISUAL NOTIFICATION OF AN EMERGENCY.
- PROVIDE CUSTOMIZED MESSAGES AND ALERT TONES.



RESET BUTTON - RB
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

RB RESET BUTTON

-RESETS APPLIANCE CONTROLLER DEVICE.
- SHALL BE WITHIN CLOSE DISTANCE TO APPLIANCE CONTROLLER DEVICE



SPEAKER SWITCH - SW
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

SW SPEAKER SWITCH

- SHALL BE UTILIZED TO CONTROL THE ACTIVE/INACTIVE OPERATION OF THE SATELLIGHT CONTROLLER IN ROOM (COMBINATION SPEAKER/LED LIGHT DEVICE).

1 DEVICE DETAILS
N.T.S

LOW VOLTAGE Installations, Inc.
5160 PARFET STREET
UNIT A4
WHEAT RIDGE
COLORADO 80033
PH: 844-LOW-VOLT
WWW.LVOLTAGE.COM

STATION 156 and LOGISTICS
Construction Set
COLORADO SPRINGS, CO 80915
Castle Oaks Drive

CASTLE ROCK
FIRE DEPARTMENT

Revisions		
No.	Date	Description
1		
2		
3		

Drawing Scale: N.T.S.
Job Number: 000
Design: XXX CAD: XXX
Sheet Title: DEVICE DETAILS
Sheet Number: AS4.5