

SANTE FE COUNTY 102 GRANT AVENUE SANTA FE, NEW MEXICO

MAY, 2023

construction plans for the CHIMAYO FIRE STATION ADDITION

226 Juan Medina Road
Chimayo, New Mexico, 87522

PROJECT MANAGER

Dan Anderson

ARCHITECT/LANDSCAPE ARCHITECT

Molzen Corbin
JOHN QUINN PATE, RLA / RA

CIVIL ENGINEER

Molzen Corbin
STEVEN K. MORROW, P.E.

STRUCTURAL ENGINEER

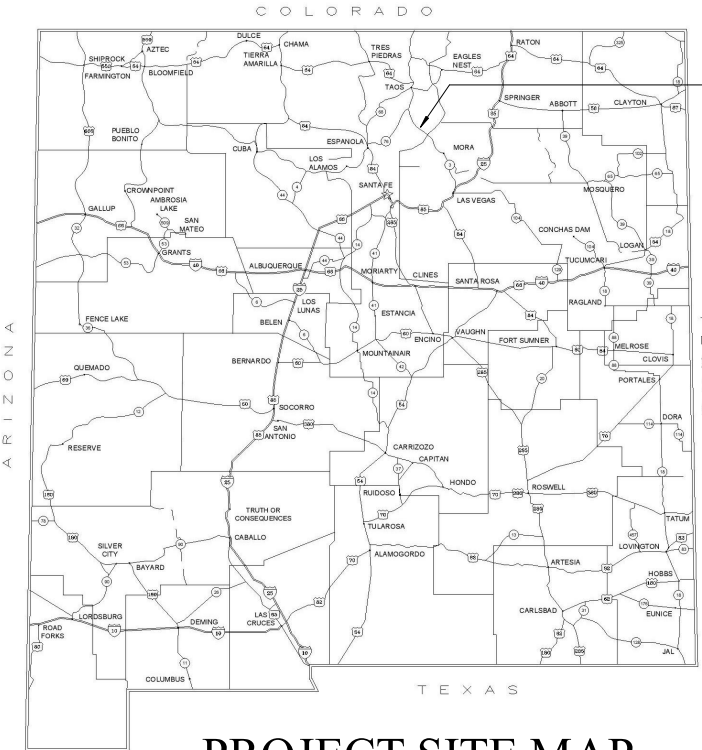
ABQ Engineering, Inc

MECHANICAL ENGINEER

Molzen Corbin
PAUL M. ROMERO, P.E.

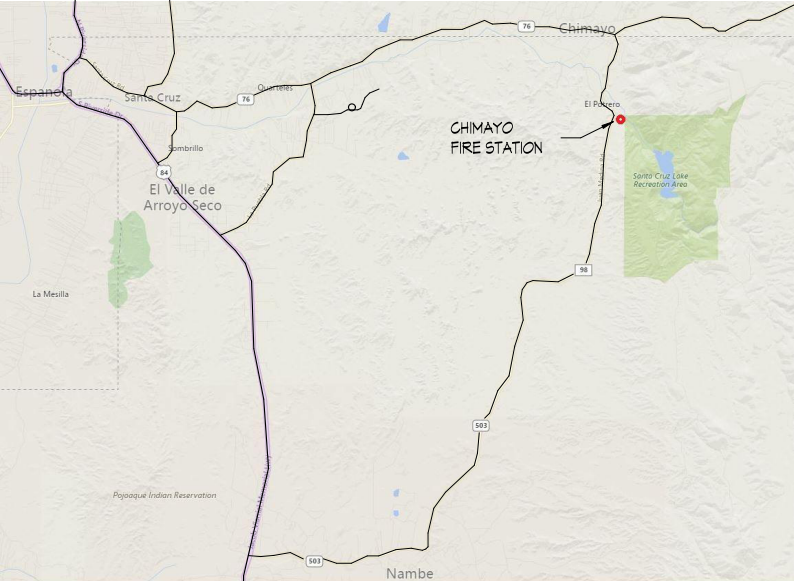
ELECTRICAL ENGINEER

Molzen Corbin
DANIEL GONZALES, P.E.



PROJECT SITE
CHIMAYO, NM

PROJECT SITE MAP



VICINITY PLAN



| DESCRIPTION | REV DATE | REV NO | NUMERIC SCALE CONFIRMATION |
|-------------|----------|--------|--|
| | | | |
| | | | DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH |
| | | | |

INSPECTION OF EXISTING CONDITIONS

BY SUBMISSION OF A BID THE CONTRACTOR IS ASSERTING THAT IT HAS CONDUCTED A PROPER AND REASONABLE INSPECTION OF EXISTING CONDITIONS. IF THAT INSPECTION REVEALS A VISIBLE PHYSICAL CONDITION THAT IS NOT SPECIFICALLY REFERENCED IN THE CONTRACT DOCUMENTS, THAN THAT CONDITION IS NOT CONSIDERED UNFORESEEN, UNKNOWN OR OF AN UNUSUAL NATURE AND THE CONDITION WILL NOT BE JUSTIFICATION FOR CHANGES TO THE WORK AS DEFINED BY THE CONTRACT FOR CONSTRUCTION.

BY SUBMISSION OF A BID THE CONTRACTOR ACKNOWLEDGES THAT IT HAS SATISFIED ITSELF AS TO THE CHARACTER, QUALITY AND QUANTITY OF MATERIALS OR OBSTACLES TO BE ENCOUNTERED INSOFAR AS THIS INFORMATION IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE IN CONJUNCTION WITH REVIEW OF THESE DRAWINGS AND SPECIFICATIONS. ANY FAILURE OF THE CONTRACTOR TO TAKE THE ACTIONS DESCRIBED AND ACKNOWLEDGED BY THESE PARAGRAPHS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ESTIMATING PROPERLY, THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK, OR FOR PROCEEDING TO SUCCESSFULLY PERFORM THE WORK WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

FAILURE TO CONDUCT AN INSPECTION DOES NOT CONSTITUTE GROUNDS FOR CLAIM OF ADDITIONAL FEES TO REMOVE, PROTECT, OR PATCH VISIBLE EXISTING CONDITIONS IMPACTED BY THE WORK OF THE CONTRACT.

REGARDING HAZARDOUS MATERIALS:
 IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

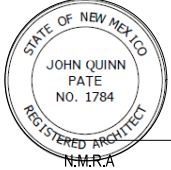
THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF MOLZEN-CORBIN & ASSOCIATES, AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MOLZEN-CORBIN & ASSOCIATES.

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS, AND PREVIOUS CONSTRUCTION DOCUMENTS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THESE DRAWINGS. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS SHALL A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

CERTIFICATION:

I, JOHN QUINN PATE, REGISTERED PROFESSIONAL ARCHITECT NO. 1784 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



[Signature]
5/22/23

NO. 1784

MOLZENCORBIN

ENGINEERS | ARCHITECTS | PLANNERS

2701 Miles Road SE, Albuquerque, New Mexico 87106 505 242 5700 office 505 242 0673 fax

Molzen Corbin Project Number: SFC222-11

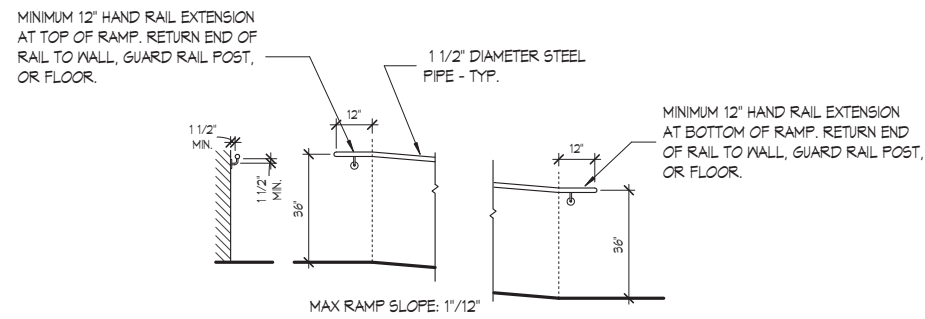
G-001

Sheet 1 of 41

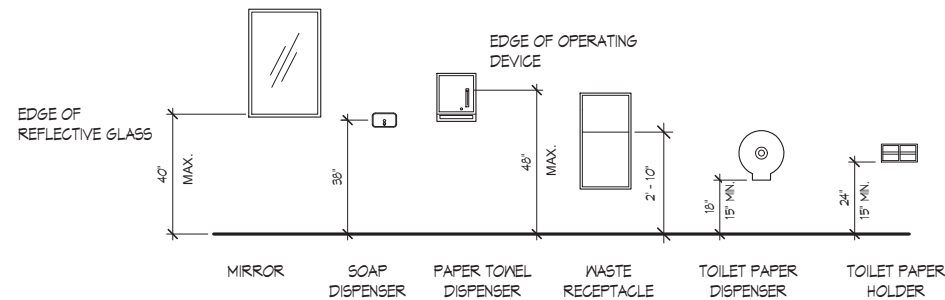
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INDEX OF DRAWINGS

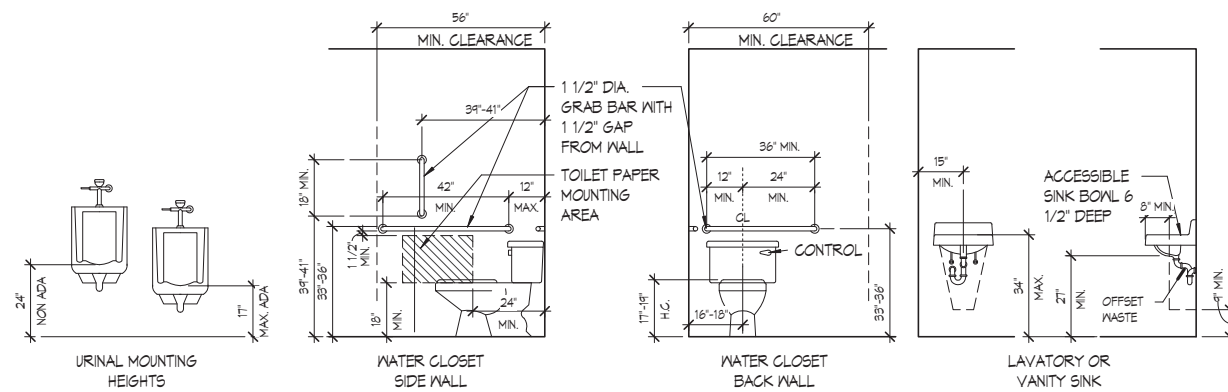
| SEQUENCE | SHEET NUMBER | SHEET NAME |
|------------------------------|--------------|---|
| GENERAL | | |
| 1 | G-001 | COVERSHEET |
| 2 | G-002 | SHEET INDEX |
| 3 | G-101 | LIFE SAFETY & EGRESS PLAN, CODE EVALUATION |
| CIVIL | | |
| 4 | C-101 | DEMOLITION PLAN |
| 5 | C-102 | SITE PLAN |
| 6 | C-103 | GRADING AND DRAINAGE PLAN |
| 7 | C-104 | UTILITY PLAN |
| 8 | C-105 | SURVEY CONTROL |
| 9 | C-201 | TRENCH DRAIN PLAN AND PROFILE |
| 10 | C-202 | BANK STABILIZATION PLAN AND PROFILE |
| 11 | C-501 | MISCELLEOUS DETAILS |
| 12 | C-502 | FENCE AND GATE DETAILS |
| 13 | C-503 | MISCELLEOUS DETAILS |
| 14 | C-504 | TRENCH DETAILS |
| 15 | C-505 | UTILITY DETAILS |
| STRUCTURAL | | |
| 16 | S-001 | GENERAL STRUCTURAL NOTES |
| 17 | S-002 | GENERAL STRUCTURAL NOTES |
| 18 | S-003 | GENERAL STRUCTURAL NOTES AND DETAILS |
| 19 | S-101 | FOUNDATION AND FRAMING PLAN |
| 20 | S-301 | FOUNDATION DETAILS |
| 21 | S-302 | FRAMING DETAILS |
| 22 | S-501 | TYPICAL FRAMING DETAILS |
| 23 | S-502 | TYPICAL FRAMING DETAILS |
| ARCHITECTURAL | | |
| 24 | A-001 | SITE DEVELOPMENT PLAN |
| 25 | A-101D | DEMOLITION FLOOR PLAN, ROOF PLAN, BUILDING SECTIONS |
| 26 | A-101 | FLOOR PLAN |
| 27 | A-102 | REFLECTED CEILING PLAN |
| 28 | A-103 | ROOF PLAN AND DETAILS |
| 29 | A-201 | EXTERIOR ELEVATIONS |
| 30 | A-301 | BUILDING SECTIONS |
| 31 | A-310 | WALL SECTIONS |
| 32 | A-501 | DOOR AND WINDOW DETAILS |
| 33 | A-601 | DOOR AND WINDOW SCHEDULE |
| MECHANICAL / PLUMBING | | |
| 34 | M-101 | MECHANICAL HVAC AND PLUMBING PLAN |
| 35 | M-601 | HVAC AND PLUMBING SCHEDULES |
| ELECTRICAL | | |
| 36 | E-101 | EXISTING POWER AND LIGHTING PLAN DEMOLITION |
| 27 | E-102 | POWER PLAN MODIFICATIONS |
| 38 | E-103 | LIGHTING PLAN |
| 29 | E-601 | EXISTING ONE-LINE DIAGRAM |
| 40 | E-602 | ELECTRICAL SCHEDULES |
| 41 | E-603 | ELECTRICAL WIRING DIAGRAM |



ADA RAMP HANDRAIL



TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS



TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



| REV NO | REV DATE | DESCRIPTION | PROJECT NUMBER | PROJECT DATE |
|--------|----------|-------------|----------------|--------------|
| | | | SFC222-11 | MAY 2023 |

SHEET INDEX

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

G-002

SHEET 2 of 41

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| | |
|----------------------------|-----------|
| PROJECT NUMBER: | SFC222-11 |
| DESIGNED BY: | Designer |
| DRAWN BY: | Author |
| CHECKED BY: | Checker |
| PRIME DESIGN PROFESSIONAL: | Approver |
| PROJECT DATE: | MAY 2023 |

LIFE SAFETY & EGRESS PLAN, CODE EVALUATION

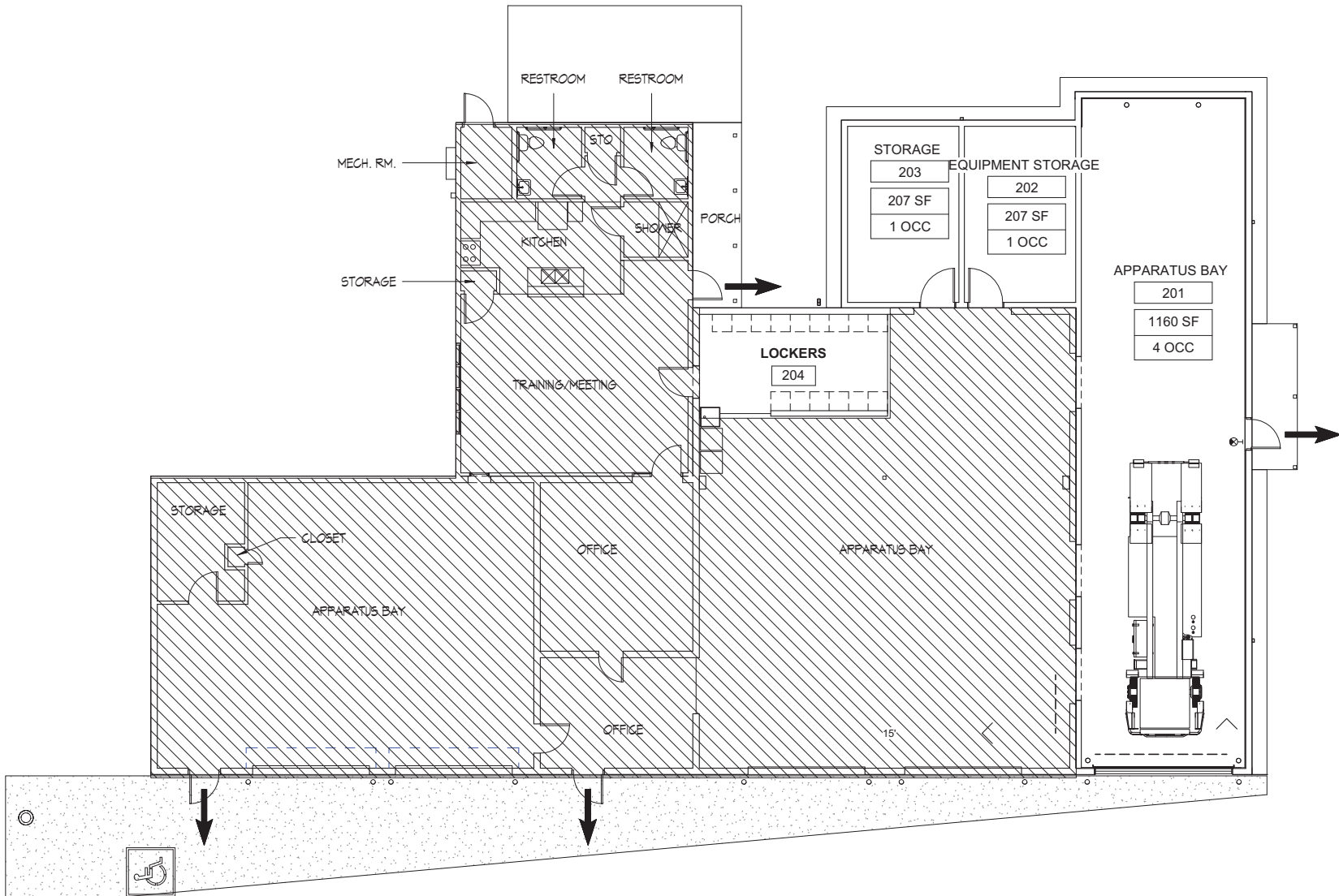
CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

BUILDING CRITERIA

CHIMAYO FIRE STATION ADDITION

DESIGNED TO MEET 2015 NMBC/IBC, 2018 NMECCI/ECC, 2021 NMPC/UPC,
2021 NMMC/UMC, AND IFC; 2017 NMEG/NEC AND ANSI A117.1 CURRENT EDITION

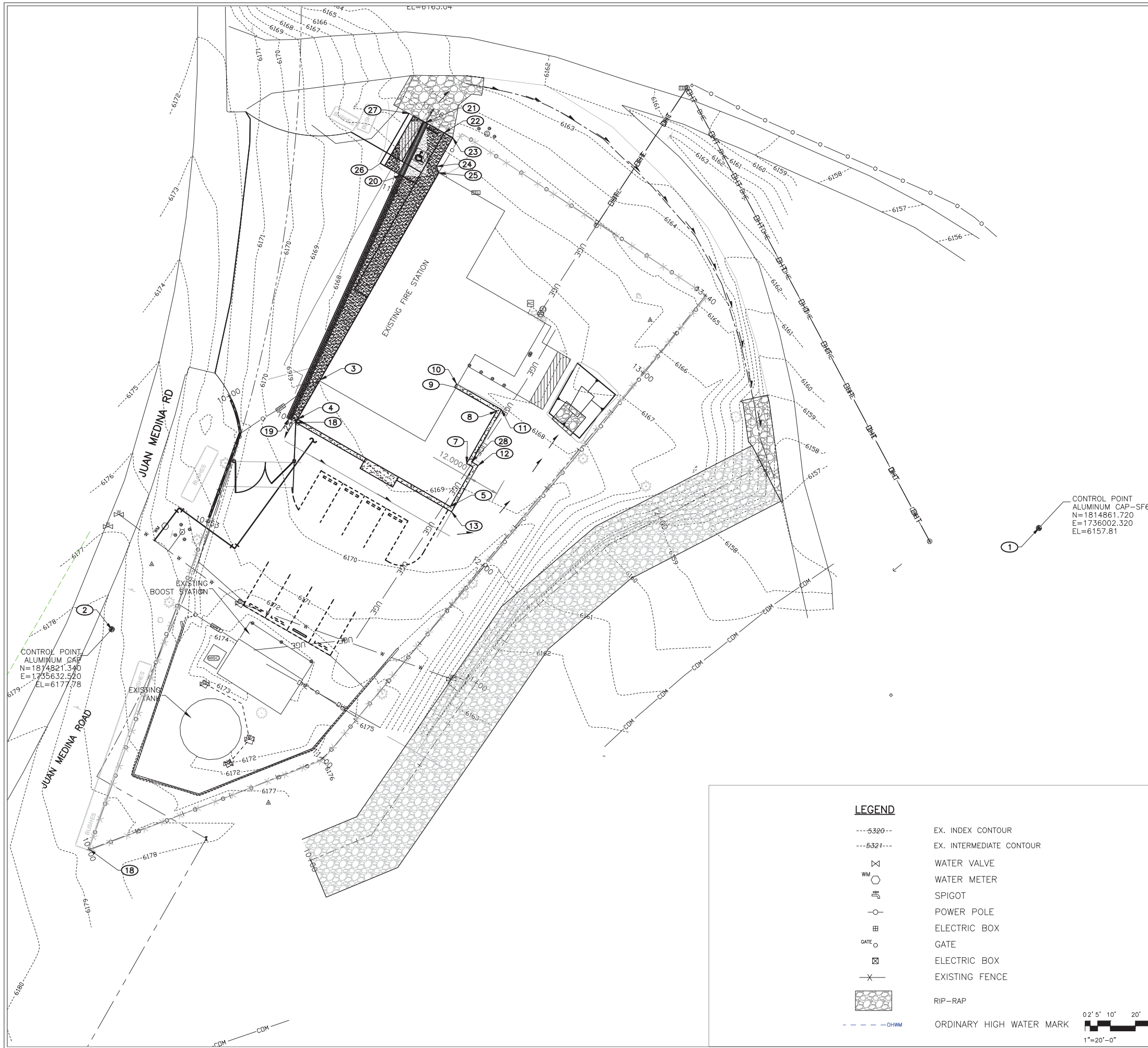
| | | |
|--|---|--|
| TYPE | BUILDING USE FIRE STATION | PER 14.7.2.11 NMBC, NMCBC CLASSIFIES FIRE STATIONS AS A BUSINESS: - B |
| CLASSIFICATION | APPARATUS BAYS AS A STORAGE: S-1 | APPARATUS BAYS AS A STORAGE: S-1 |
| TYPE OF CONSTRUCTION | NON-COMBUSTIBLE VB | |
| BUILDING ATTRIBUTES TABLE 503 | BUILDING FLOOR AREA - NON SEPARATED MIXED OCCUPANCY B S-1 TOTAL AREA | 2027 SF 3971 SF (4252 SF EXISTING) 5818 SF |
| NUMBER OF STORIES | 20 | |
| ACTUAL BUILDING HEIGHT | 40 | |
| ALLOWABLE AREA PER FLOOR FOR B CLASSIFICATION (MOST RESTRICTIVE CLASSIFICATION) | 9000 | |
| ALLOWABLE BUILDING HEIGHT | 40 | |
| EXTERIOR PROTECTION | FIRE SEPARATION DISTANCES | >30 FT ON ALL SIDES TO THE PROPERTY LI OR CENTER OF WATER BUILDI |
| FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON DISTANCE | NOT REQUIRE | |
| INTERIOR PROTECTION | PORTABLE FIRE EXTINGUISHERS PER IFC SECTION 906 | REQUIRED: 2A UNITS EA 1500 SF FLOOR AR 2 - 4A UNITS AT 75FT MAX SPACING REQUIR x - 4A:80B:C EXTINGUISHERS PROVID |
| FIRE DETECTION AND FIRE ALARM SYSTEMS | FIRE PROTECTION SYSTEMS WILL BE DESIGN AND CONSTRUCTED WITH THE PROJE | |
| FIRE SEPARATIONS | NONE REQUIRE | |
| DESIGN OCCUPANT LOAD MEANS OF EGRESS | FUNCTION OF SPACE/SF PER OCCUPANT | OCCUPANT LO |
| BUSINESS AREAS | BUSINESS 593 SF/100 SF PER OCCUPANT = 6 TRAINING ROOM 452 SF/20 SF PER OCCUPANT = 23 STORAGE 486 SF/300 SF PER OCCUPANT = 2 | |
| APPARATUS AND EQUIPMENT ROOMS | 3971 SF/300 SF PER OCCUPANT = 14 | |
| ACCESSORY AREAS | MECHANICAL/ELECTRICAL 39 SF TOILET FACILITIES 134 SF CIRCULATION 17 SF | |
| TARE & OVERHANGS | 454 SF | |
| TOTAL OCCUPANT LOAD | 45 | |
| MEANS OF EGRESS REQUIRED AT 36" WIDE EACH EXITS TO PUBLIC WAY PROVIDED | 1 4 | |
| PLUMBING FIXTURES TABLES 2902.1 | PLUMBING FACILITIES CLASSIFICATION: | BUSINESS _____ OCCUPANT LOAD = 45 |
| WATER CLOSETS REQUIRED: | 1/25 FOR FIRST 50 AND 1/50 FOR REMAINDER = 2 TOTAL | |
| WATER CLOSETS PROVIDED: EXISTING | 2 TOTAL | |
| LAVATORIES REQUIRED: | 1/40 FOR FIRST 80 AND 1/80 FOR REMAINDER = 2 TOTAL | |
| LAVATORIES PROVIDED: EXISTING | 2 TOTAL | |
| DRINKING FOUNTAIN REQUIRED: | 1 PER 100 = 1 TOTAL | |
| DRINKING FOUNTAINS PROVIDED: EXISTING | 1 BOTTLED WATER PROVIDED | |
| SERVICE SINKS REQUIRED: | 1 SERVICE SINK | |
| SERVICE SINKS AND OTHER FIXTURES PROVIDED: EXISTING | 1 SERVICE SINK, 1 KITCHEN SINK, 1 SHOWER | |
| INSULATION VALUES NMECC | CLIMATE ZONE: | CHIMAYO, SANTA FE COUNTY, ZONE 5B |
| ROOF: | R-38 MIN IN ATTIC SPACE BELOW DECK | |
| MASS WALLS: | R-11.4 CONTINUOUS | |
| WOOD FRAMED WALLS: | R-13 MIN IN CAVITY PLUS 3.8 MIN CONTINUOUS R-7.5 | |
| PERIMETER: | R-10 TO 24" BELOW GRADE | |
| SLAB: | NOT REQUIRED | |
| OPENINGS: | U-0.37 MAX, FOR SWINGING DOORS; U-0.31 MAX FOR ROLL-UP DOORS | |
| ACCESSIBILITY | ALL EXISTING ACCESSIBILITY ELEMENTS TO REMAIN. | |
| SYMBOLS LEGEND | | |
| ⊙ FE | FIRE EXTINGUISHER LOCATION | ↔ EGRESS LIGHT |
| ← | EXIT | |
| ⊗ | EXIT LIGHTING | |



1 MAIN AND LOWER LEVEL LIFE SAFETY AND EGRESS PLAN

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

| Occupancy Load Schedule | | | | |
|-------------------------|-------------------|---------|----------------------|----------------|
| Number | Room | Area | Occupant Load Factor | Occupancy Load |
| 201 | APPARATUS BAY | 1160 SF | 300 | 4 |
| 202 | EQUIPMENT STORAGE | 207 SF | 300 | 1 |
| 203 | STORAGE | 207 SF | 300 | 1 |
| 204 | LOCKERS | 194 SF | | |



GENERAL NOTES

- SEE SHEET C-201 FOR RIP-RAP SLOPE PLAN AND PROFILE
- EXISTING AND FINISH CONTOURS ARE THE SAME. BACKFILL RIP-RAP TO MATCH EXISTING.
- WHEEL ROLL RIP-RAP PRIOR TO BACKFILL

MOLZENCORBIN

2701 Miles Road SE
 Albuquerque, New Mexico 87106
 505 242 5700 office
 505 242 0673 fax
 MolzenCorbin.com

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NUMERIC SCALE CONFIRMATION
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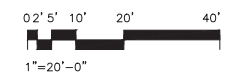
POINT TABLE

| POINT | NORTHING | EASTING | DESCRIPTION |
|-------|------------|------------|----------------------|
| 1 | 1814861.72 | 1736002.32 | CONTROL POINT SF6 |
| 2 | 1814821.34 | 1735632.52 | CONTROL POINT |
| 3 | 1814920.84 | 1735715.67 | BLDG CORNER |
| 4 | 1814905.18 | 1735706.70 | BLDG CORNER |
| 5 | 1814870.29 | 1735767.58 | BLDG CORNER |
| 6 | 1814886.05 | 1735776.61 | BLDG CORNER |
| 7 | 1814887.50 | 1735774.08 | BLDG CORNER |
| 8 | 1814908.33 | 1735786.01 | BLDG CORNER |
| 9 | 1814917.92 | 1735769.28 | BLDG CORNER |
| 10 | 1814919.26 | 1735770.04 | BLDG APRON |
| 11 | 1814908.98 | 1735787.97 | BLDG APRON |
| 12 | 1814886.67 | 1735778.64 | BLDG APRON |
| 13 | 1814868.23 | 1735768.07 | BLDG APRON |
| 14 | 1814880.81 | 1735746.13 | BLDG APRON |
| 15 | 1814878.10 | 1735744.58 | SWLK CORNER |
| 16 | 1814885.55 | 1735731.56 | SWLK CORNER |
| 17 | 1814888.27 | 1735733.12 | BLDG CORNER |
| 18 | 1814903.85 | 1735705.93 | BLDG CORNER |
| 19 | 1814905.37 | 1735703.27 | TRENCH GRATE |
| 20 | 1815002.49 | 1735747.96 | TRENCH GRATE |
| 21 | 1815023.53 | 1735757.64 | TRENCH GRATE |
| 22 | 1815019.39 | 1735765.07 | SWLK |
| 23 | 1815017.47 | 1735768.53 | SWLK CORNER |
| 24 | 1815005.98 | 1735762.01 | SWLK |
| 25 | 1815003.47 | 1735762.96 | SWLK |
| 26 | 1815007.24 | 1735739.65 | CONCRETE SLAB CORNER |
| 27 | 1815027.17 | 1735751.09 | CONCRETE SLAB CORNER |
| 28 | 1814888.16 | 1735776.04 | BLDG APRON |

CONTROL POINT
 ALUMINUM CAP-SF6
 N=1814861.720
 E=1736002.320
 EL=6157.81

LEGEND

- 5320--- EX. INDEX CONTOUR
- 5321--- EX. INTERMEDIATE CONTOUR
- WM WATER VALVE
- WM WATER METER
- SPIGOT
- POWER POLE
- ELECTRIC BOX
- GATE
- ELECTRIC BOX
- EXISTING FENCE
- RIP-RAP
- OHM--- ORDINARY HIGH WATER MARK



CAUTION:
 NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

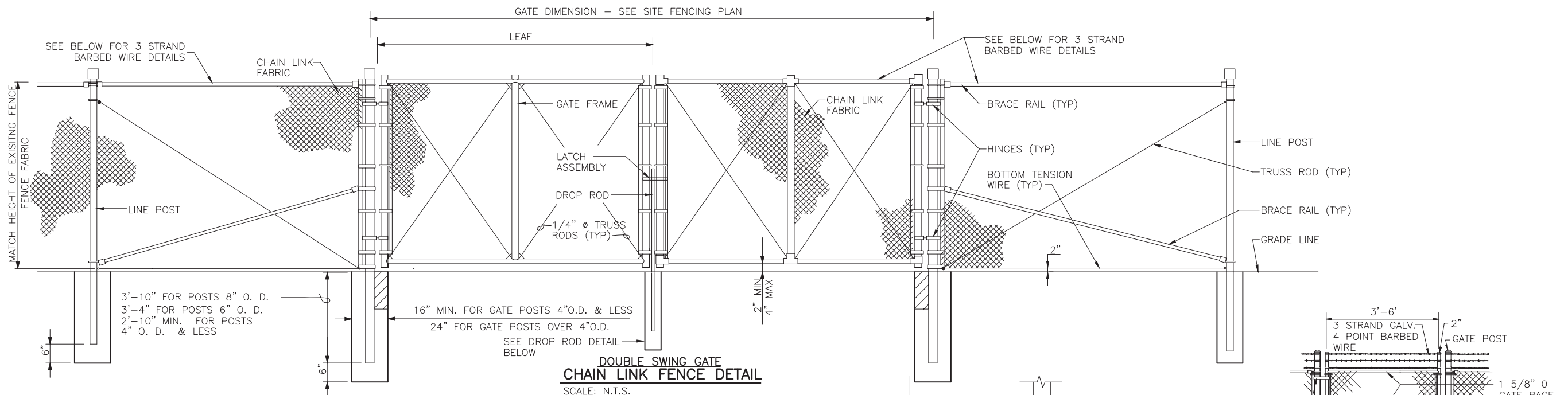
SURVEY CONTROL
 CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NM

C-105

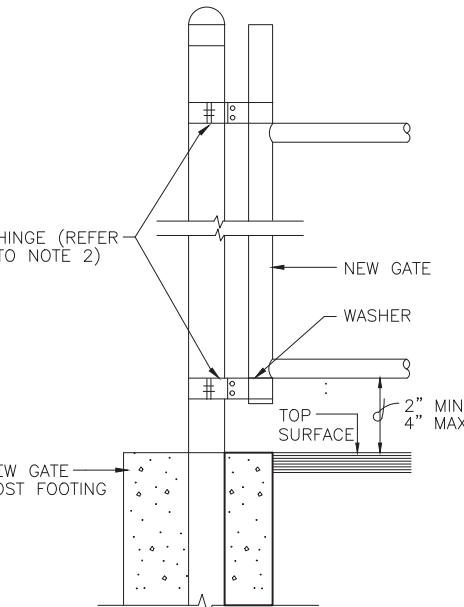
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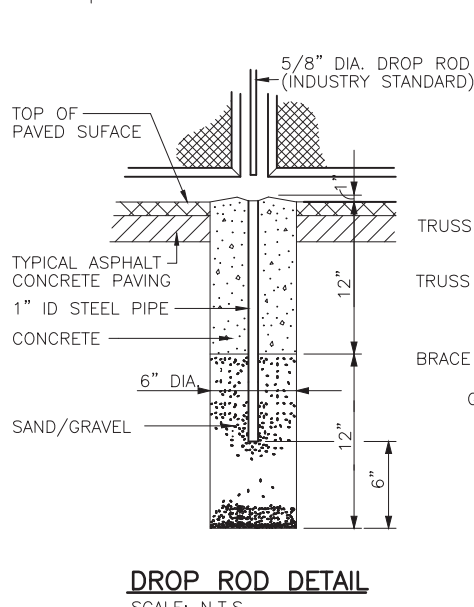
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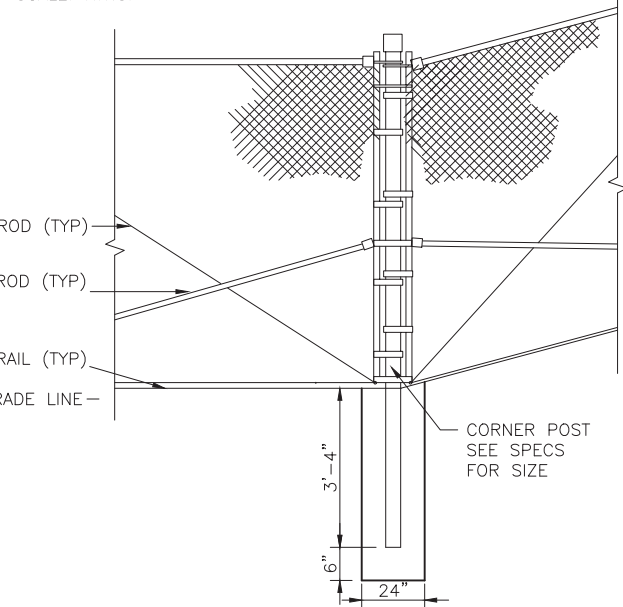
**DOUBLE SWING GATE
 CHAIN LINK FENCE DETAIL**
 SCALE: N.T.S.



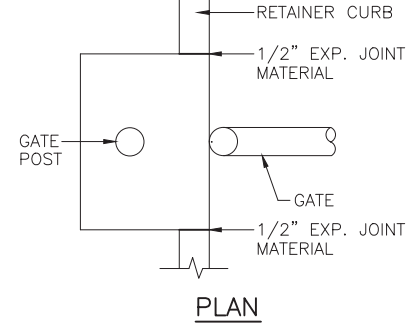
**SECTION
 GATE POST DETAIL**
 SCALE: N.T.S.



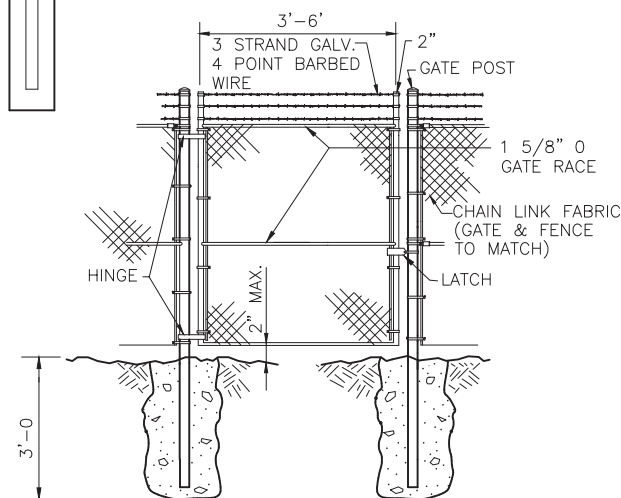
DROP ROD DETAIL
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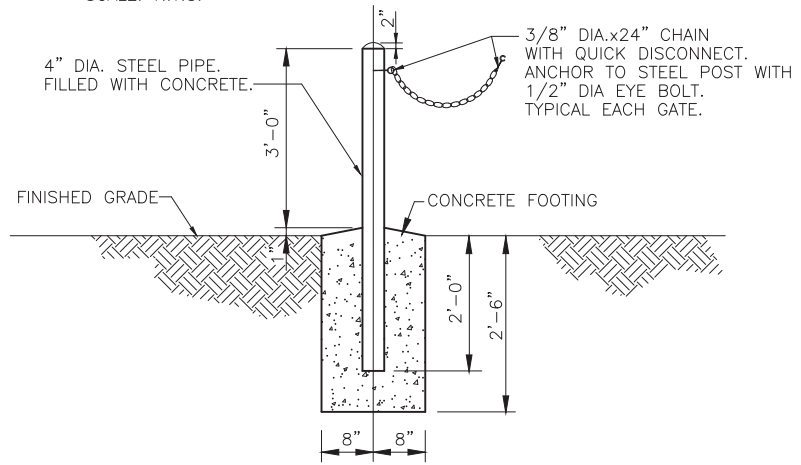
CORNER POST



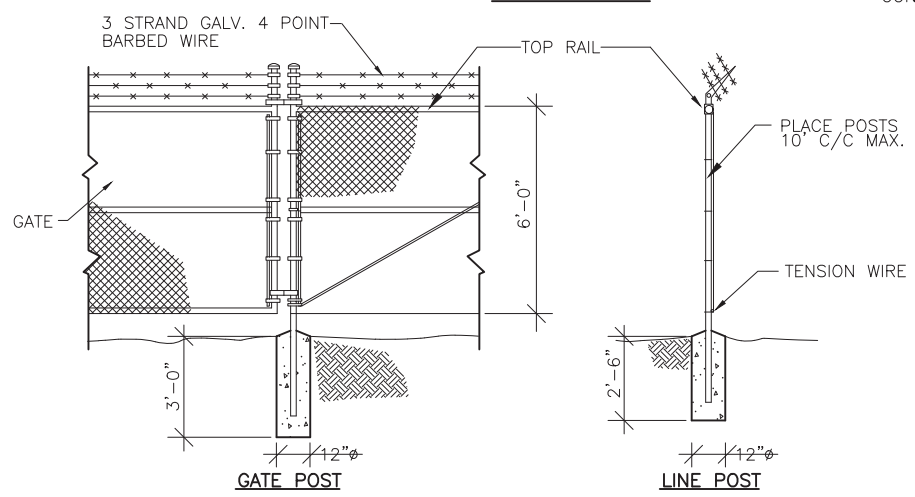
**PLAN
 GATE POST DETAIL**
 SCALE: N.T.S.



MAN GATE DETAIL
 SCALE: N.T.S.

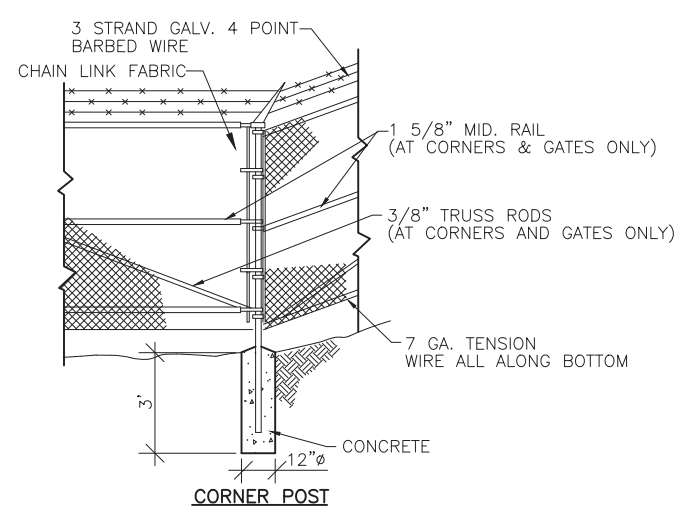


**LATCH POST DETAIL
 FOR GATE IN OPEN POSITION**
 SCALE: N.T.S.



NOTE: MAX POST SPACING SHALL BE 10'-0", ALL TIE WIRES ARE 9 GA. MIN., ALL FITTINGS, HARDWARE, ETC. TO BE GALVANIZED., ALL RAILS ARE SCHEDULE 40. ALL ATTACHMENTS ARE IN ACCORDANCE TO STANDARD INDUSTRY PRACTICE.

CHAINLINK FENCE DETAIL
 N.T.S.



CORNER POST

- NOTES:**
1. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.
 2. GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.

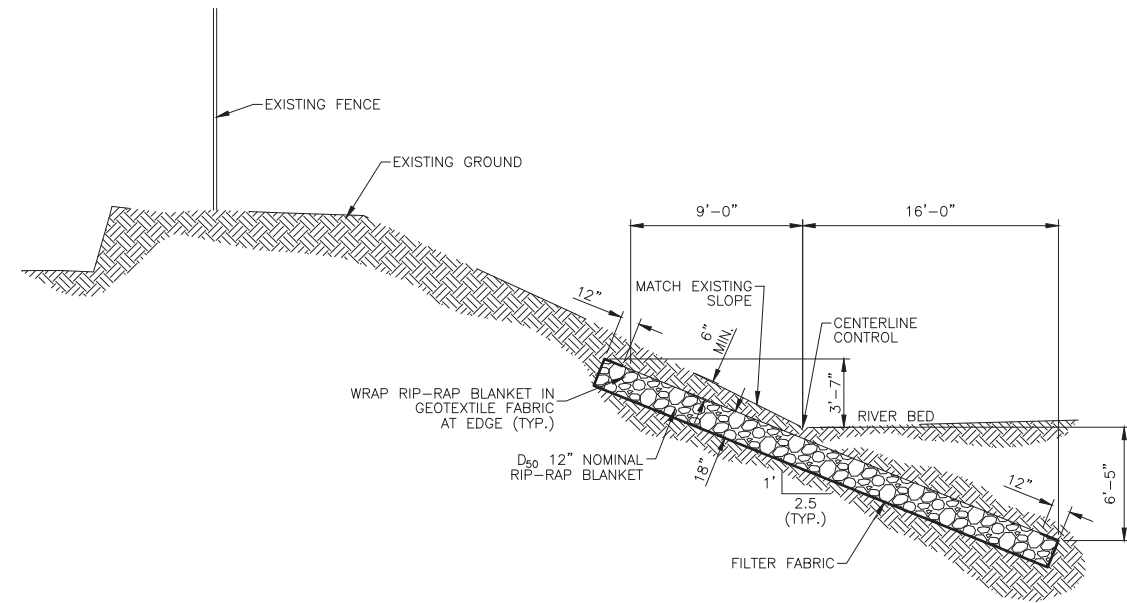
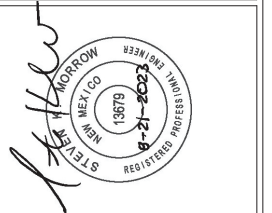
FENCE AND GATE DETAILS

CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NM

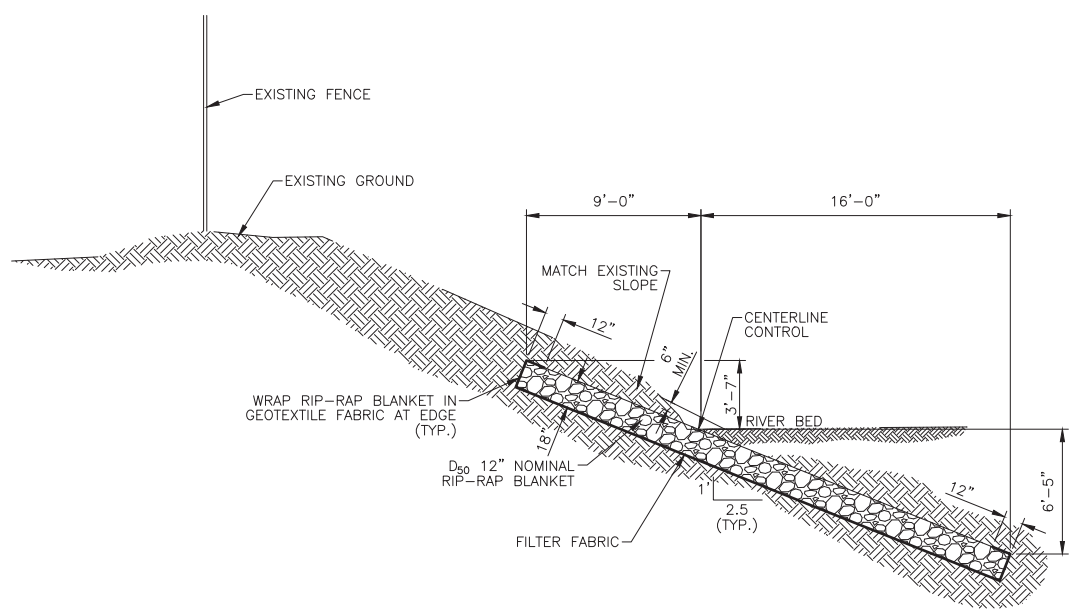
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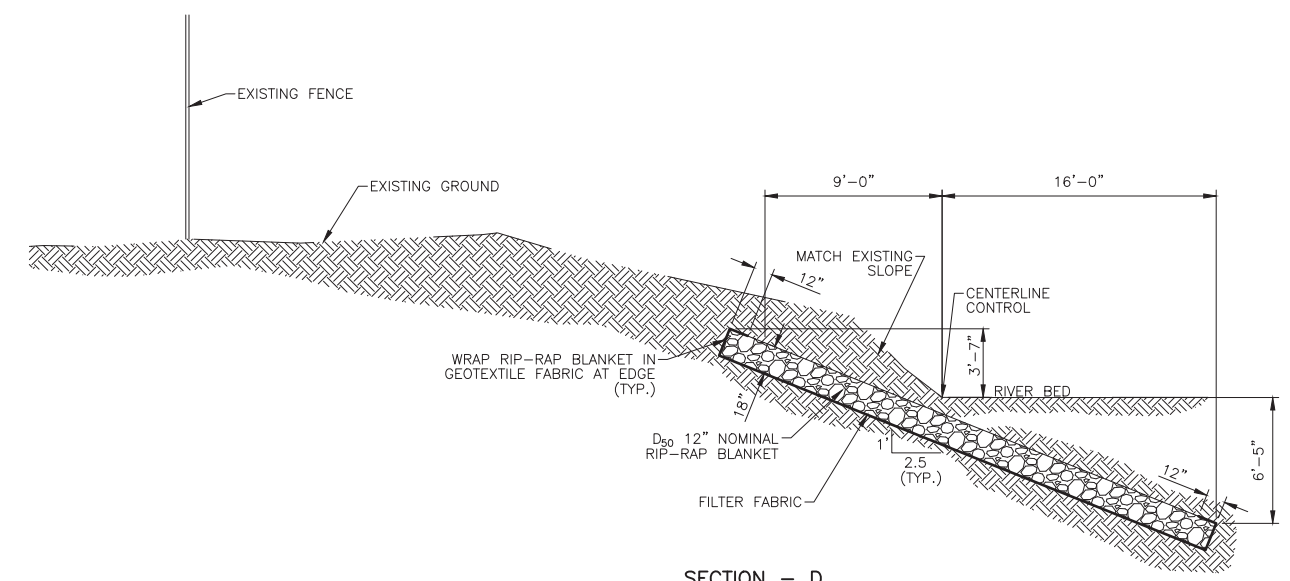
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SECTION - B
RIP-RAP BANK STABILIZATION
 SCALE: N.T.S.



SECTION - C
RIP-RAP BANK STABILIZATION
 SCALE: N.T.S.



SECTION - D
RIP-RAP BANK STABILIZATION
 SCALE: N.T.S.

MISCELLANEOUS DETAILS

CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NM

C-503

SHEET 13 / 41

PLT DATE: 8/21/2023 4:50 PM
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 OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION
 DRAWINGS ARE DEPICTED AT INTENDED
 NUMERIC SCALES
 IF THIS BAR EQUALS ONE INCH



| REV NO | REV DATE | DESCRIPTION |
|--------|----------|-------------|
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|----------------------------|------------------|
| PROJECT NUMBER: | SFC222-11 |
| DESIGNED BY: | SKM |
| DRAWN BY: | MC |
| CHECKED BY: | SKM |
| PRIME DESIGN PROFESSIONAL: | STEVEN K. MORROW |
| PROJECT DATE: | MAY 2023 |

Trench Grate R-4990-DX

General Description:
 R-4990-DX
 TYPE D

Specifications:
 Length: 24"
 Width: 14"
 Weight: 80lbs
 Material: Cast Gray Iron
 ASTM A-48, Class 35B

Finish:
 • Black

RELIANCE FOUNDRY
 SINCE 1925

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
 1-877-789-3245 info@reliance-foundry.com
 www.reliance-foundry.com

TITLE: Trench Grate R-4990-DX
 DWG NO: 06453144
 SHEET 1 OF 1

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TYPE A GRATE
 SCALE: N.T.S.

Trench Grate R-4990-DX

General Description:
 R-4990-DX
 TYPE A

Specifications:
 Length: 24"
 Width: 14"
 Weight: 73lbs
 Material: Cast Gray Iron
 ASTM A-48, Class 35B

Finish:
 • Black

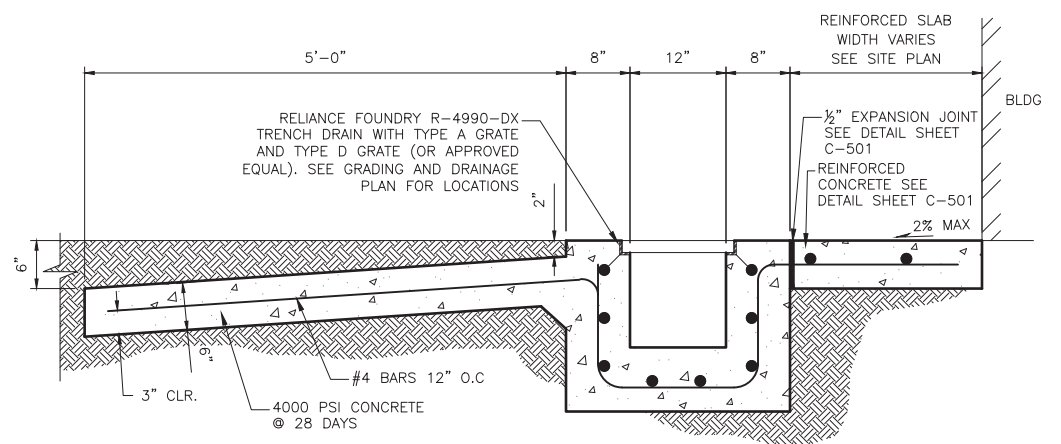
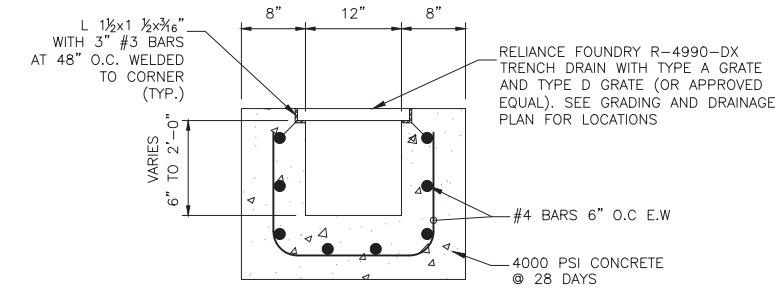
RELIANCE FOUNDRY
 SINCE 1925

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
 1-877-789-3245 info@reliance-foundry.com
 www.reliance-foundry.com

TITLE: Trench Grate R-4990-DX
 DWG NO: 06453141
 SHEET 1 OF 1

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(OR APPROVED EQUAL)
TYPE "A" GRATE
 SCALE: N.T.S.



TRENCH GRATE DETAILS
 CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NM

PLOT DATE: 8/27/2023 4:50 PM
 P:\SANTA FE COUNTY\SF222-11\CHIMAYO FIRE RESTAUR\DWG\CSF-504

DEFINITIONS

THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:

'ARCHITECT/ENGINEER' - THE ARCHITECT OF RECORD AND THE STRUCTURAL ENGINEER OF RECORD.

- 'STRUCTURAL ENGINEER OF RECORD' (SER) - THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP AND SIGN THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
- 'SUBMIT FOR REVIEW' - SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.
- 'PER PLAN' - INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS AND STRUCTURAL GENERAL NOTES.
- 'SPECIALTY STRUCTURAL ENGINEER' (SSE) - A PROFESSIONAL ENGINEER (PE OR SE), LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, (TYPICALLY NOT THE SER), WHO PERFORMS SPECIALTY STRUCTURAL ENGINEERING SERVICES FOR SELECTED SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS, AND WHO HAS EXPERIENCE AND TRAINING IN THE SPECIALTY. DOCUMENTS STAMPED AND SIGNED BY THE SSE SHALL BE COMPLETED BY OR UNDER THE DIRECT SUPERVISION OF THE SSE.
- 'BIDDER-DESIGNED' - COMPONENTS OF THE STRUCTURE THAT REQUIRE THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER WHO IS RESPONSIBLE FOR THE DESIGN, FABRICATION AND INSTALLATION OF SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS TO RE-RETAIN THE SERVICES OF AN SSE. SUBMITTALS OF 'BIDDER-DESIGNED' ELEMENTS SHALL BE STAMPED AND SIGNED BY THE SSE.

OTHER DRAWINGS: REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, MECHANICAL UNIT LOCATIONS, AND OTHER NON-STRUCTURAL ITEMS.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.

STRUCTURAL RESPONSIBILITIES: THE STRUCTURAL ENGINEER (SER) IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM.

COORDINATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.

MEANS, METHODS AND SAFETY REQUIREMENTS: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH).

BRACING/SHORING DESIGN ENGINEER: THE CONTRACTOR SHALL, AT HIS DISCRETION EMPLOY AN SSE, A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.

TEMPORARY SHORING, BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

CONSTRUCTION LOADS: LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA & LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S SSE FOR BRACING/SHORING.

CHANGES IN LOADING: THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL / STRUCTURAL / MECHANICAL / ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

NOTE PRIORITIES: PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

ADJACENT UTILITIES: THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

ALTERNATES: ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE, AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

SUBMITTALS

SUBMIT FOR REVIEW: SUBMITTALS OF SHOP DRAWINGS, AND PRODUCT DATA ARE REQUIRED FOR ITEMS NOTED IN THE INDIVIDUAL MATERIALS SECTIONS AND FOR BIDDER DESIGNED ELEMENTS.

SUBMITTAL REVIEW PERIOD: SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ARCHITECT/ENGINEER PRIOR TO THE ONSET OF FABRICATION.

GENERAL CONTRACTOR'S PRIOR REVIEW: PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE 'SER', AND THEREFOR, MUST BE VERIFIED BY THE GENERAL CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY THE DETAILER AND PROVIDE THE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO THE ARCHITECT/ENGINEER.

SHOP DRAWING REVIEW: ONCE THE CONTRACTOR HAS COMPLETED THE REQUIRED PRIOR REVIEW, THE 'SER' WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT AND THE CONTRACT DOCUMENTS OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR THE DEPARTURES THERE FROM.

SHOP DRAWING DEVIATIONS: WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND STAMPED BY THE RESPONSIBLE 'SSE'.

DEFERRED SUBMITTALS

BIDDER-DESIGNED ELEMENTS
SUBMIT "BIDDER-DESIGNED" DEFERRED SUBMITTALS TO THE ARCHITECT AND 'SER' FOR REVIEW PRIOR TO SUBMISSION TO THE APPROVING AGENCY.

DESIGN OF PREFABRICATED, "BIDDER-DESIGNED", MANUFACTURED, PRE-ENGINEERED, OR OTHER FABRICATED PRODUCTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

- DESIGN CONSIDERS TRIBUTARY DEAD, LIVE, WIND AND EARTHQUAKE LOADS IN COMBINATIONS REQUIRED BY IBC.
- DESIGN WITHIN THE DEFLECTION LIMITS NOTED HEREIN AND AS SPECIFIED OR REFERENCED IN THE IBC.
- DESIGN SHALL CONFORM TO THE SPECIFICATIONS AND REFERENCE STANDARDS OF THE GOVERNING CODE.
- SUBMITTAL SHALL INCLUDE:
 - CALCULATIONS PREPARED, STAMPED AND SIGNED BY THE 'SSE' DEMONSTRATING CODE CONFORMANCE.
 - ENGINEERED COMPONENT DESIGN DRAWINGS ARE PREPARED, STAMPED AND SIGNED BY THE 'SSE'.
 - PRODUCT DATA, TECHNICAL INFORMATION AND MANUFACTURER'S WRITTEN REQUIREMENTS AND AGENCY APPROVALS AS APPLICABLE.
 - 'SSE' MAY SUBMIT TO THE ARCHITECT/ENGINEER, A REQUEST TO UTILIZE RELEVANT ALTERNATE DESIGN CRITERIA OF SIMILAR NATURE AND GENERALLY EQUIVALENCY WHICH IS RECOGNIZED BY THE CODE AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUBMIT ADEQUATE DOCUMENTATION OF DESIGN.

| DEFLECTION LIMITS: | VERTICAL | LIMIT |
|--------------------|---|---|
| | ROOF MEMBERS, DEAD + LIVE OR SNOW OR WIND, TOTAL LOAD (TL) DEFLECTION | L / 240, WHERE (L IS SPAN LENGTH, INCHES) |
| | ROOF, LIVE OR SNOW OR WIND LOAD (RLL) | L / 360 |
| | FLOOR MEMBERS, TOTAL LOAD (TL) uno | L / 240 |
| | FLOOR LIVE LOAD (LL) uno | L / 360 |
| | HORIZONTAL | LIMIT AND FOOTNOTE |
| | MEMBERS SUPPORTING BRITTLE FINISHES | L / 240 (1) |
| | MEMBERS SUPPORTING FLEXIBLE FINISHES | L / 180 (1) |

(1) WIND LOAD IS REDUCIBLE TO 0.6 TIMES THE COMPONENT AND CLADDING LOADS PER TABLE 1604.3 FOOTNOTE f.

GENERAL CONTRACTOR'S PRIOR REVIEW: ONCE THE CONTRACTOR HAS COMPLETED THE REVIEW OF THE 'SSE' COMPONENT DRAWINGS, THE 'SER' WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. REVIEW OF THE SPECIALTY STRUCTURAL ENGINEER'S 'SSE' SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) IS FOR COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE 'SSE' OF RESPONSIBILITY FOR THAT DESIGN. ALL NECESSARY BRACING, TIES, ANCHORAGE, PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE 'SSE'S' DESIGN DRAWINGS AND CALCULATIONS. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

"BIDDER-DESIGNED" DEFERRED SUBMITTALS

- TEMPORARY SHORING SYSTEMS

QUALITY ASSURANCE (TESTING AND INSPECTION)

QUALITY ASSURANCE (TESTING AND INSPECTION) AS REQUIRED BY THE OWNER AND SECTIONS 1704 THRU 1709 OF THE IBC, SHALL BE PROVIDED BY A QUALIFIED AGENCY SELECTED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE REQUIRED INSPECTIONS. ALL TESTING AND INSPECTION REPORTS SHALL BE SENT WITHIN 24 HOURS OF THE TEST OR INSPECTION TO THE OWNER, ARCHITECT, APPLICABLE ENGINEER, BUILDING OFFICIAL AND GENERAL CONTRACTOR. ITEMS REQUIRING QUALITY ASSURANCE (TESTING AND INSPECTION) ARE:

- SOILS/ENGINEERED FILL (IBC SECTION 1705.6 AND TABLE 1705.6):
 - REFER TO SPECIFICATION SECTION 01 4523 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS.
 - PRIOR TO PLACEMENT OF THE PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
 - DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLIES WITH THE GEO-TECHNICAL'S REPORT.
 - THE INSPECTOR SHALL DETERMINE THAT THE IN-PLACE DRY DENSITY OF THE ENGINEERED FILL MATERIAL COMPLIES WITH THE GEO-TECHNICAL REPORT.
 - CONTINUOUS FOOTING ENGINEERED FILL: SEE SPECIFICATIONS.
 - SPOT FOOTING ENGINEERED FILL: SEE SPECIFICATIONS.
 - SITE WORK ENGINEERED FILL (PAVED AREAS, SIDEWALKS, TRENCHES, ETC.): SEE SPECIFICATIONS.
 - BUILDING PAD ENGINEERED FILL: SEE SPECIFICATIONS.
- CONCRETE (IBC SECTION 1705.3 AND TABLE 1705.3):
 - REFER TO SPECIFICATION SECTION 01 4523 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS.
 - CYLINDERS, SLUMP, TEMPERATURE AND AIR-ENTRAINMENT SHALL BE DONE. PROVIDE SIX SAMPLES EACH FOR EXTERIOR SITE WORK CONCRETE, FOOTINGS, FOUNDATION WALLS AND INTERIOR SLABS ON GRADE.
 - PROTECTION OF CONCRETE DURING COLD AND HOT WEATHER.
- PREFABRICATED METAL PLATE WOOD TRUSSES (IBC SECTIONS 1705.5)
 - REFER TO SPECIFICATION SECTION 06 1753 SHOP-FABRICATED WOOD TRUSSES: TRUSSED RAFTERS FOR CERTIFICATION REQUIREMENTS.
 - THE INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS OF INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATORS ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- WOOD DIAPHRAGMS AND SHEAR WALLS (IBC SECTION 1705.5)
 - FOR WALLS AND ROOF AREAS WHERE THE NAIL SPACING IS 4 INCHES AND LESS ON CENTER, THE INSPECTOR SHALL VERIFY WOOD PANEL SHEATHING GRADE, THICKNESS AND NOMINAL SIZE OF FRAMING MEMBERS, ADJOINING PANEL EDGES, NAIL SIZE AND SPACING, BOLTING AND OTHER FASTENING OF COMPONENTS.
- EPOXY ANCHORS (IBC SECTION 1706.1):
 - REFER TO SPECIFICATION SECTION 01 4523 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS.
 - INSPECTION SHALL VERIFY ALL DRILLED HOLES SIZE AND DEPTH PRIOR TO INSTALLATION OF EPOXY AND ANCHOR ROD. SEE SPECIFICATIONS FOR QUANTITY OF TESTING.
- STEEL (IBC SECTION 1705.2):
 - INSPECTION DURING FABRICATION IS NOT REQUIRED IF THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT INSPECTION. SPECIAL INSPECTION OF FIELD WELDS AS REQUIRED BY IBC SECTION 1704.
- MASONRY (IBC SECTION 1705.4):
 - REFER TO SPECIFICATION SECTION 04 0000 FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS.
 - SPECIAL INSPECTION OF MASONRY IS NOT REQUIRED.

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES
IF THIS BAR EQUALS ONE INCH



| | | | | | | | | |
|--------|----------|-------------|---------------------------|------------------|--------------|-----------------|--------------------------------|----------------------------|
| REV NO | REV DATE | DESCRIPTION | PROJECT NUMBER: SEC183-11 | DESIGNED BY: JCH | DRAWN BY: DM | CHECKED BY: JCH | PRIME DESIGN PROFESSIONAL: JCH | PROJECT DATE: MAY 22, 2023 |
|--------|----------|-------------|---------------------------|------------------|--------------|-----------------|--------------------------------|----------------------------|

GENERAL STRUCTURAL NOTES

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

S-002

SHEET 17 of 41

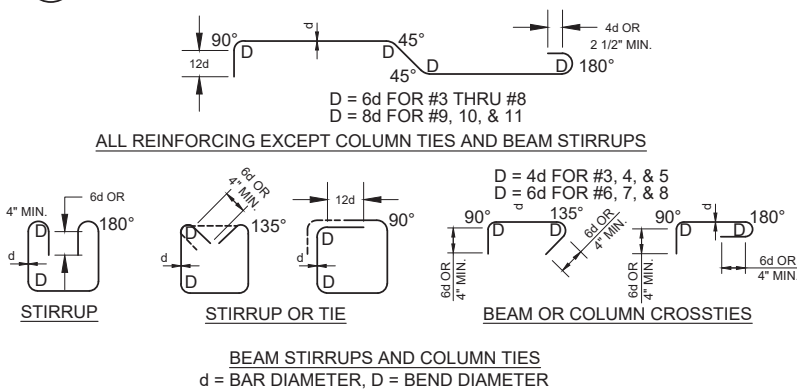
| TABLE A - REINFORCEMENT TENSION LAPS, EMBEDMENT AND HOOK LENGTHS | | | | | | | | | | | | | | | | |
|--|------------------------|-------|-------|--|-----|-----------------|-----|--------------|-----|-------------------------|-----|--------------|-----|-----------------|----|----|
| fy = 60000 psi f'c = 3000 psi | | | | | | | | | | | | | | | | |
| BAR SIZE (d) | CLEAR SPACING (IN) (4) | | | EMBEDMENT AND CLASS A LAP (IN) (5)(6)(7) | | | | | | CLASS B LAP (IN) (6)(8) | | | | | | |
| | 2d | 3d | 5d | TOP BAR (10) | | OTHER BARS (11) | | TOP BAR (10) | | OTHER BARS (11) | | TOP BAR (10) | | OTHER BARS (11) | | |
| | | | | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | | | |
| 3 | 3/4 | 1 1/8 | 1 7/8 | 16 | 16 | 16 | 13 | 13 | 13 | 21 | 21 | 21 | 16 | 16 | 16 | 9 |
| 4 | 1 | 1 1/2 | 2 1/2 | 22 | 22 | 22 | 17 | 17 | 17 | 28 | 28 | 28 | 22 | 22 | 22 | 11 |
| 5 | 1 1/4 | 1 7/8 | 3 1/8 | 27 | 27 | 27 | 21 | 21 | 21 | 35 | 35 | 35 | 27 | 27 | 27 | 14 |
| 6 | 1 1/2 | 2 1/4 | 3 3/4 | 35 | 32 | 32 | 27 | 25 | 25 | 46 | 42 | 42 | 35 | 32 | 32 | 17 |
| 7 | 1 3/4 | 2 5/8 | 4 3/8 | 48 | 38 | 38 | 37 | 29 | 29 | 63 | 49 | 49 | 48 | 38 | 38 | 20 |
| 8 | 2 | 3 | 5 | 63 | 45 | 43 | 49 | 35 | 33 | 82 | 59 | 56 | 63 | 45 | 43 | 22 |
| 9 | 2.256 | 3 3/8 | 5 5/8 | 80 | 57 | 48 | 62 | 44 | 37 | 104 | 74 | 63 | 80 | 57 | 48 | 25 |
| 10 | 2.54 | 3.81 | 6.35 | 102 | 73 | 58 | 78 | 56 | 45 | 132 | 94 | 76 | 102 | 73 | 58 | 28 |
| 11 | 2.82 | 4.23 | 7.05 | 125 | 89 | 71 | 96 | 69 | 55 | 162 | 116 | 93 | 125 | 89 | 71 | 31 |

NOTES FOR TABLE A

- LENGTHS SHOWN CONFORM WITH NON SEISMIC PROVISIONS OF ACI 318 FOR UNCOATED BARS NOT ENCLOSED BY CLOSELY SPACED SPIRALS OR TIES. DEVELOPMENT OF REINFORCEMENT NOT COVERED BY THE TABLE SHALL CONFORM WITH ACI 318.
- MULTIPLY LENGTHS SHOWN BY 0.87 FOR 4000 PSI. CONCRETE, BUT LENGTH OF LAP SHALL NOT BE LESS THAN 12 INCH.
- MULTIPLY LENGTHS SHOWN BY 1.3 FOR LIGHTWEIGHT AGGREGATE CONCRETE.
- BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS WHEN ALL BARS ARE LAPPED AT THE SAME LOCATION. WHEN BAR LAPS ARE STAGGERED, AND LAP HALF THE BARS ARE LAPPED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS TWICE THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS. WHEN ALL BARS ARE EMBEDDED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER.
- CLASS A LAP LENGTHS APPLY ONLY WHERE NOTED ON THE DRAWINGS.
- LAP AND EMBEDMENT LENGTHS SHOWN APPLY WHEN MINIMUM CONCRETE COVER OVER BARS CONFORMS WITH VALUES GIVEN IN THE TABLE FOR "CONCRETE COVER". THESE COVER VALUES CONFIRM WITH ACI 318.
- CLASS A LAP AND EMBEDMENT LENGTH HAVE SAME VALUE.
- CLASS B LAP LENGTHS APPLY FOR ALL SPLICES UNLESS NOTED OTHERWISE.
- HOOK LENGTH GIVEN IS THE STRAIGHT LINE DISTANCE FROM THE LOCATION OF MAXIMUM STRESS IN THE BAR TO THE OUTSIDE END OF THE HOOK. MULTIPLY LENGTHS GIVEN BY 0.7 FOR HOOKS WITH SIDE COVER NORMAL TO THE HOOK NOT LESS THAN 2-1/2 INCH AND FOR 90 DEGREE HOOKS COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCH.
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
- MULTIPLY LAP AND EMBEDMENT LENGTHS GIVEN BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.
- MINIMUM CONCRETE COVER FROM FACE OF MEMBER TO EDGE BAR SHALL NOT BE LESS THAN TWO AND ONE HALF BAR DIAMETERS.

1 REBAR TYPICAL LAPS & NOTES

Scale: N.T.S.



2 REBAR TYPICAL BEND DETAILS

Scale: N.T.S.

| TYPICAL ANCHOR BOLT SCHEDULE | | | | | |
|--|------------------------------------|-----------------------|---------------------|----------------------------|---|
| INSTALLATION TYPE | CAST-IN-PLACE (PRE AUTHORIZED) [2] | | | | DRILL-IN-OPTIONS (SUBMITTAL REQUIRED) [3] |
| BOLT TYPE | STANDARD J-BOLT | HEADED ROD ANCHOR | THREADED ROD ANCHOR | SIMPSON "SSTB" ANCHOR BOLT | ADHESIVE ANCHOR |
| EMBEDMENT REQUIREMENTS | 7 1/2" | 12x DIA. 1/4" MIN. | TACK | PER MFR | NOT ALLOWED AT P-T SLAB |
| LIMITS | 3/4"Ø MAX | 5/8"Ø THRU 2 1/2"Ø | | FOR WOOD FRAME ONLY | 5/8"Ø THRU 1"Ø |
| ANCHOR BOLT MATERIAL - A325 OR F1554 GRADE 36 MIN. DIA = ANCHOR BOLT DIAMETER (NOMINAL) | | | | | |

PROJECTION NOTE (1)

MIN. EMBED UNO PER PLAN

NOTES:

- CONTRACTOR SHALL DETERMINE THE REQUIRED THREAD PROJECTION SUITABLE FOR THE THICKNESS OF MATERIAL BEING FASTENED PLUS GROUT ALLOWANCE, IF ANY, AND CONSTRUCTION TOLERANCES, UNO.
- CONTRACTOR MAY SELECT APPROPRIATE CAST-IN-PLACE ANCHOR BOLT OPTION WITHOUT SUBMITTAL.
- DRILL-IN OPTIONS ARE NOT APPROPRIATE AT ALL CONDITIONS. IF DRILL-IN METHOD IS PREFERRED, SUBMIT MANUFACTURER'S INFORMATION, ALLOWABLE LOAD VS. EMBEDMENT DATA AND LOCATIONS OF WHERE SUBSTITUTIONS ARE REQUESTED. ENGINEER WILL DETERMINE IF SUBSTITUTION IS APPROPRIATE FOR LOCATION AND LOADING.
- EMBEDMENT OF DRILL-IN ANCHORS SHALL BE PER ENGINEER'S SUBMITTAL REVIEW COMMENTS. EMBEDMENT SHALL BE (9) NINE TIMES THE NOMINAL ANCHOR DIAMETER, UNO.
- AT PRESSURE TREATED SILLS, PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL ANCHORS.

3 ANCHOR DETAILS

Scale: N.T.S.

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES
IF THIS BAR EQUALS ONE INCH



| REV NO | REV DATE | DESCRIPTION |
|--------|----------|-------------|
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| | |
|----------------------------|--------------|
| PROJECT NUMBER: | SFC183-11 |
| DESIGNED BY: | JCH |
| DRAWN BY: | DM |
| CHECKED BY: | JCH |
| PRIME DESIGN PROFESSIONAL: | JCH |
| PROJECT DATE: | MAY 22, 2023 |

GENERAL STRUCTURAL NOTES AND DETAILS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

S-003

SHEET 18 of 41

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED
NUMERIC SCALES
IF THIS BAR EQUALS ONE INCH



| | | | |
|--------------------------------|----------|-------------|---------------------------|
| REV NO. | REV DATE | DESCRIPTION | PROJECT NUMBER: SFC183-11 |
| DESIGNED BY: JCH | | | |
| DRAWN BY: DM | | | |
| CHECKED BY: JCH | | | |
| PRIME DESIGN PROFESSIONAL: JCH | | | |
| PROJECT DATE: MAY 22, 2023 | | | |

General Notes

- A. OVER-EXCAVATION OF SOIL REMOVED BELOW FOOTINGS SHALL BE REPLACED AND COMPACTED IN LAYERS TO 95% OF MODIFIED PROCTOR DENSITY. SEE 8/S-301.
- B. INTERIOR CONCRETE SLABS ON GRADE, UNLESS OTHERWISE NOTED, SHALL BE REINFORCED WITH WELDED WIRE FABRIC MATS AS FOLLOWS:
4" SLAB - 6 x 6 W1.4 x W1.4
6" SLAB - 6 x 6 W2.1 x W2.1
- C. ELECTRIC CONDUIT AND OTHER PIPES EMBEDDED IN THE CONCRETE FLOOR SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318, PARAGRAPH 6.3.
- D. LOCATE ALL SLEEVES, DRAINS, OPENINGS, EMBEDDED ITEMS, ETC. THAT ARE INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SUCH ITEMS ARE CORRECTLY POSITIONED & INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
- F. SEE SHEET S-001 FOR ADDITIONAL NOTES AND LEGEND.
- G. CONTRACTOR TO COORDINATE ALL BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWING PRIOR TO FORMING.
- H. CONTRACTOR TO COORDINATE ALL ROOF/FLOOR PENETRATIONS WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- I. PARAPET HEIGHTS - SEE ARCHITECTURAL DRAWINGS.
- J. SEE SHEET S-501 FOR STANDARD STRUCTURAL FRAMING SECTIONS AND DETAILS.

Foundation Keyed Notes

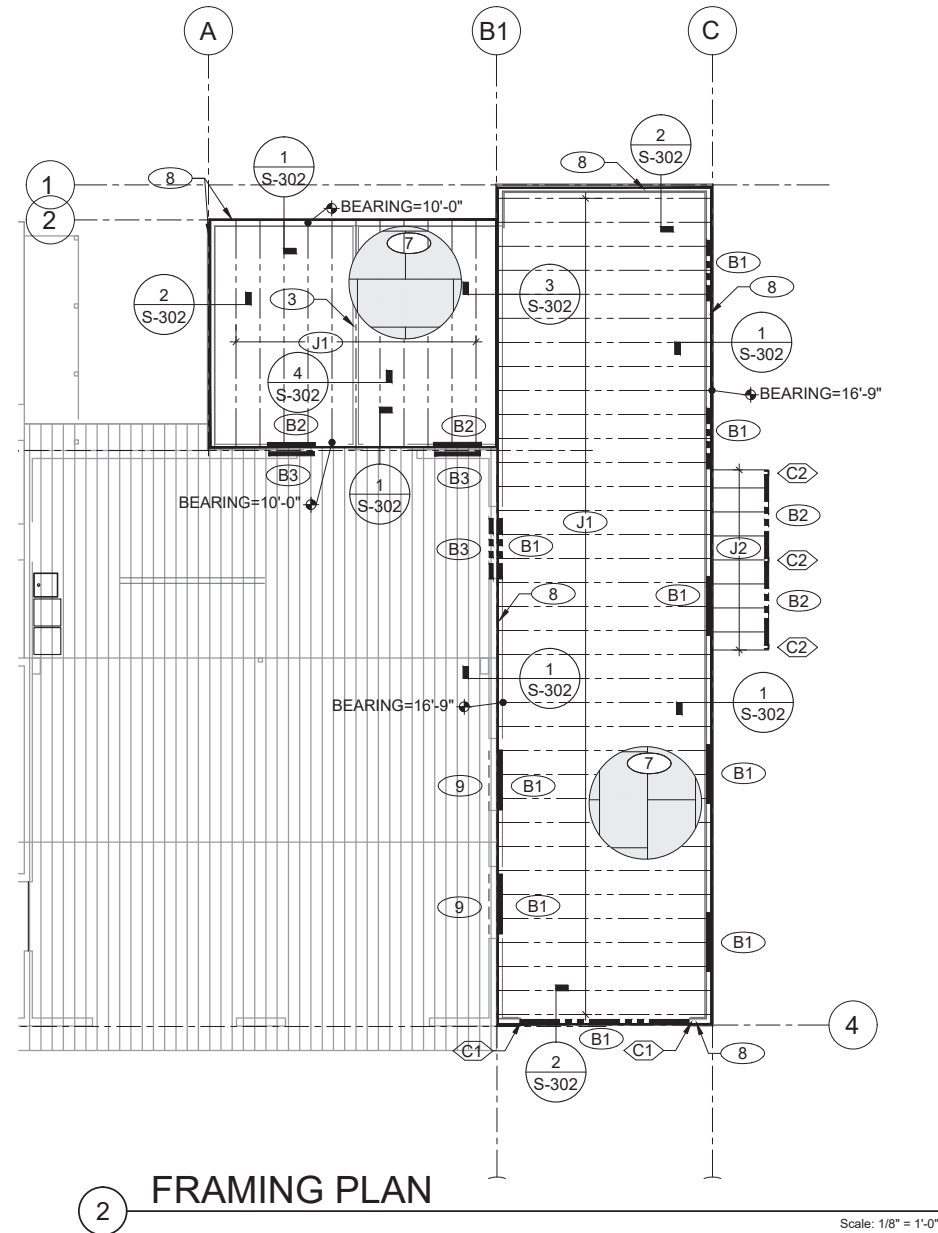
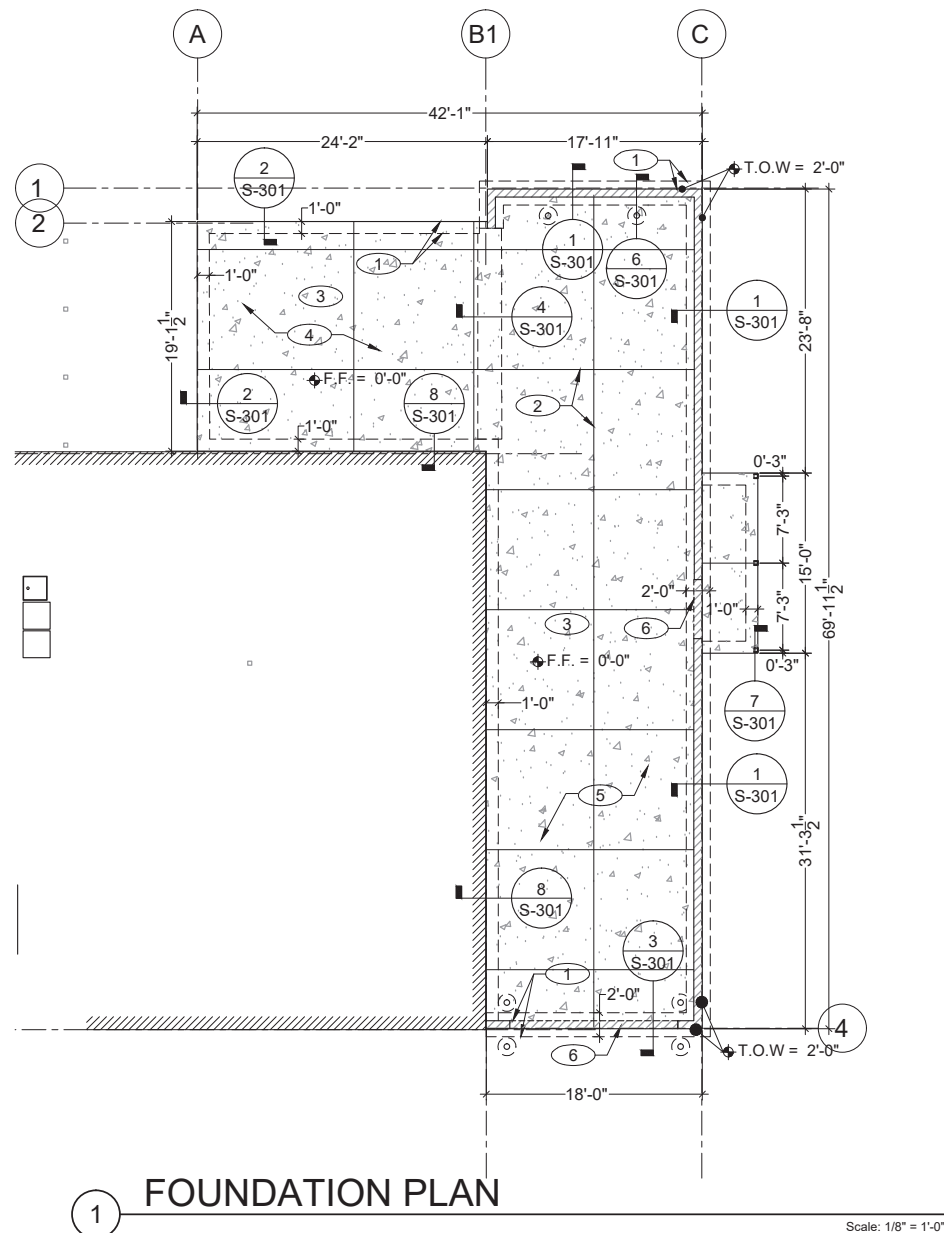
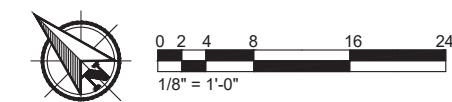
- 1. OUTLINE OF CONCRETE FOUNDATION & FOOTING BELOW GRADE. SEE FOUNDATION PLAN & DETAILS FOR INFORMATION.
- 2. SAWN CONTROL JOINT. C.J. SHALL BE A MAXIMUM 12'-0" O.C. EACH WAY. SEE PLAN FOR LAYOUT AND DETAIL 5/S-301.
- 3. INTERIOR NON-LOADBEARING FRAMED WALLS WILL BE ANCHORED TO SLAB ON GRADE WITH 1/2" Ø A307 ANCHOR BOLTS @ 72" O.C. OR APPROVED EQUAL SEE SHEET 3/S-003. SEE ARCH. DRAWINGS FOR INTERIOR WALL LOCATIONS AND LAYOUT.
- 4. 4" SLAB ON GRADE SEE ARCH.
- 5. 6" SLAB ON GRADE SEE NOTES AND DETAILS.
- 6. NOTCH TOP OF STEM WALL AT GARAGE DOORS TO MATCH SLOPED GARAGE SLAB.

Framing Keyed Notes:

- 7. ROOF SHEATHING SHALL BE 1/2", STRUCTURAL I PANELS (EXPOSURE 1, SPAN RATING 32/16), SEE 2/S-501
- 8. 2x6 WOOD STUDS @ 24" O.C. WALL SHEATHING SHALL BE 1/2" STRUCTURAL I PANELS (EXPOSURE 1), SEE 1/S-501 FOR ATTACHMENT.
- 9. MASONRY WALL BELOW THE WIDTH OF THE EXISTING WINDOW OPENINGS TO BE SAW CUT AND REMOVED TO MAKE NEW WALL OPENINGS PER ARCHITECTURAL DRAWINGS.

Legend

- CONTROL JOINT @ 12'-0" O.C.E.W. MAXIMUM
- - - GRID LINE
- - - - - EDGE OF THICKEND SLAB
- ===== EDGE OF STEM WALL
- - - - - EDGE OF TURNDOWN SLAB
- — — — — JOIST LINE
- ▬▬▬▬▬ BEAMS - SEE SCHEDULE
- ▬▬▬▬▬ RIM BOARD - SEE S302



| JOIST SCHEDULE | | | | |
|----------------|---------|---------|----------|------------------|
| MARK | SIZE | TYPE | SPACING | NOTES |
| J1 | 11 7/8" | TJI/230 | 24" O.C. | SEE DETAILS S302 |
| J2 | 2x8 | WOOD | 24" O.C. | SEE DETAILS S302 |

| BEAM SCHEDULE | | | |
|---------------|-------|----------------|--------------------|
| MARK | TYPE | SIZE | NOTES |
| B1 | WOOD | (2)-2x12 | SEE S-001,302,501 |
| B2 | WOOD | (2)-2x8 | SEE S-001,302,501 |
| B3 | STEEL | (2)-L 4X4X1/4" | SEE DETAIL 3/S-502 |

| COLUMN SCHEDULE | | | |
|-----------------|----------|---------------|------------------|
| MARK | TYPE | SIZE | NOTES |
| C1 | BUILT-UP | (3) - 2x6 | SEE DETAILS S501 |
| C2 | STEEL | 4 x 4 x 3/16" | SEE DETAILS S501 |

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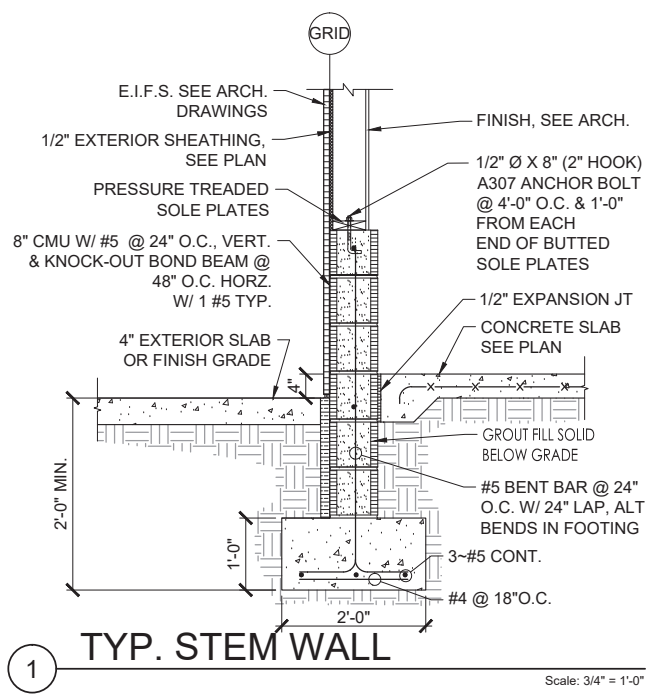
NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED
NUMERIC SCALES
IF THIS BAR EQUALS ONE INCH



| REV NO | REV DATE | DESCRIPTION | PROJECT NUMBER: | DESIGNED BY: | DRAWN BY: | CHECKED BY: | PRIME DESIGN PROFESSIONAL: | PROJECT DATE: |
|--------|----------|-------------|-----------------|--------------|-----------|-------------|----------------------------|---------------|
| | | | SFC183-11 | JCH | DM | JCH | JCH | MAY 22, 2023 |

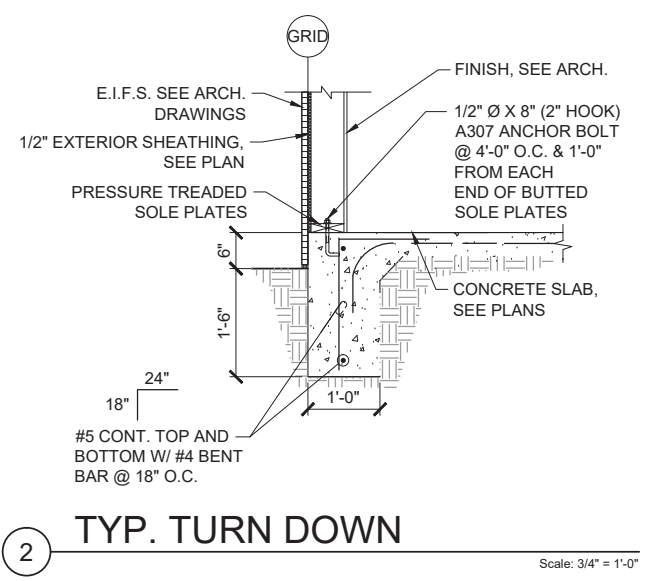
FOUNDATION DETAILS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO



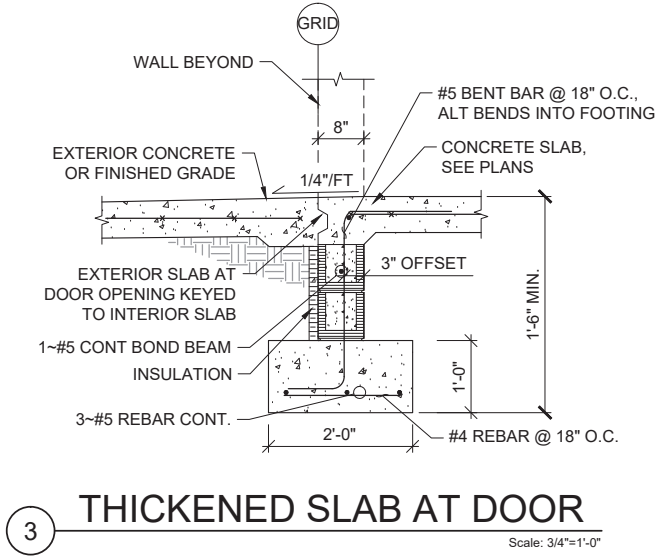
1 TYP. STEM WALL

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



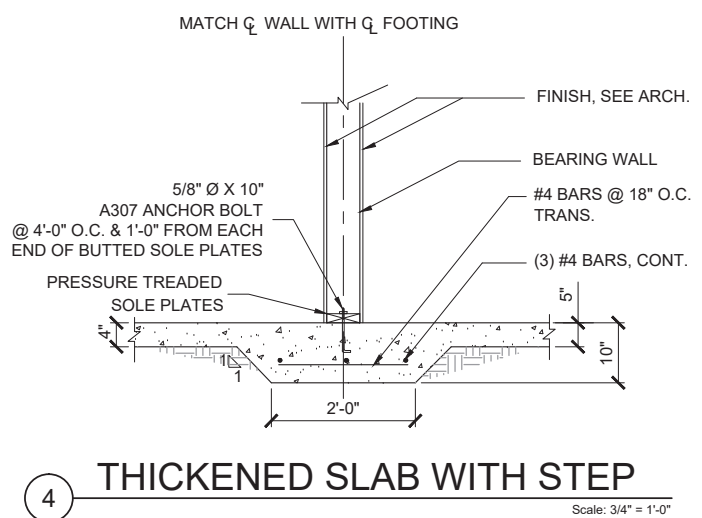
2 TYP. TURN DOWN

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



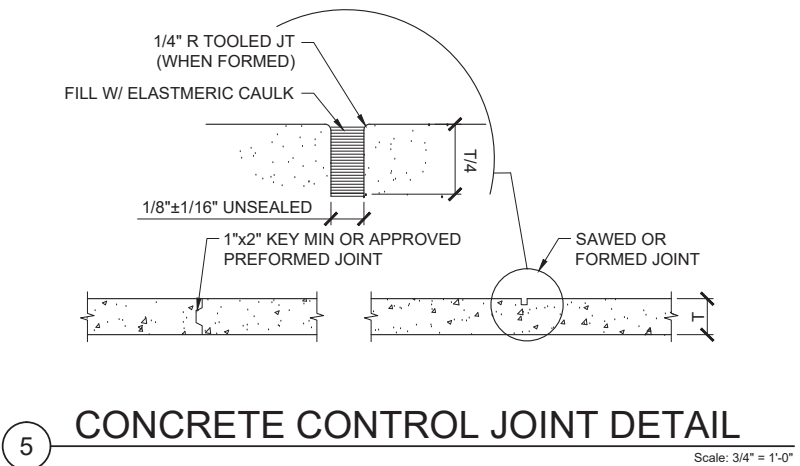
3 THICKENED SLAB AT DOOR

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



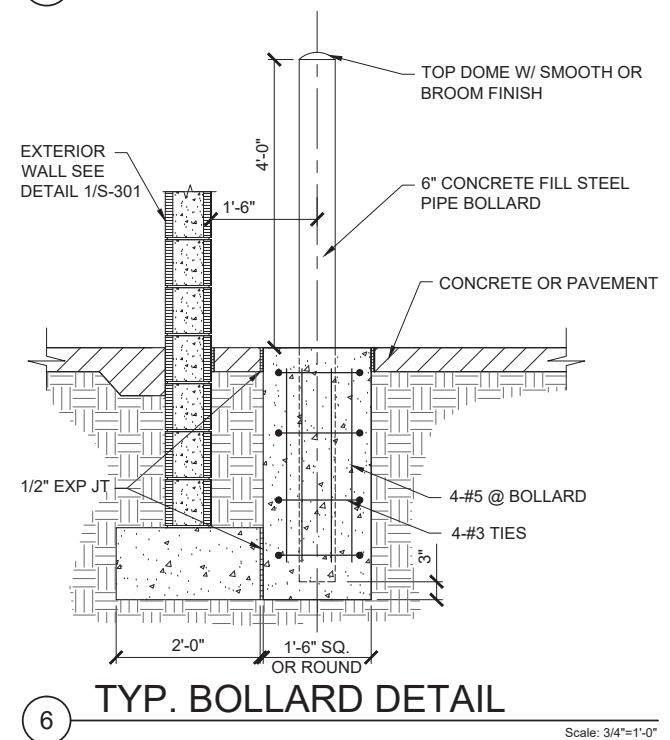
4 THICKENED SLAB WITH STEP

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



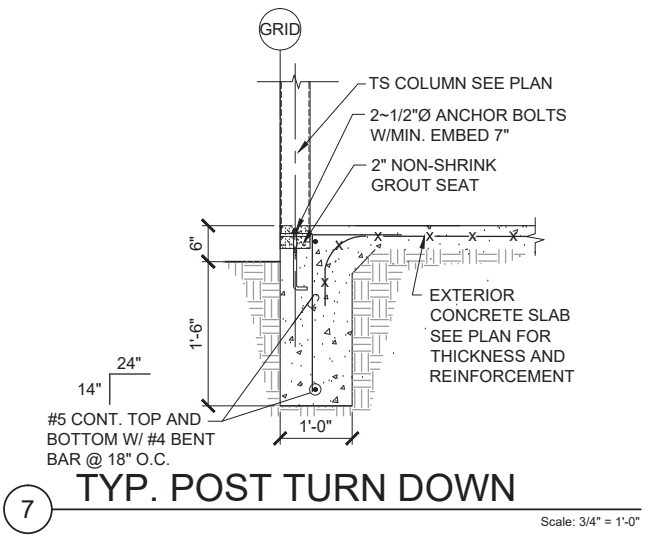
5 CONCRETE CONTROL JOINT DETAIL

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



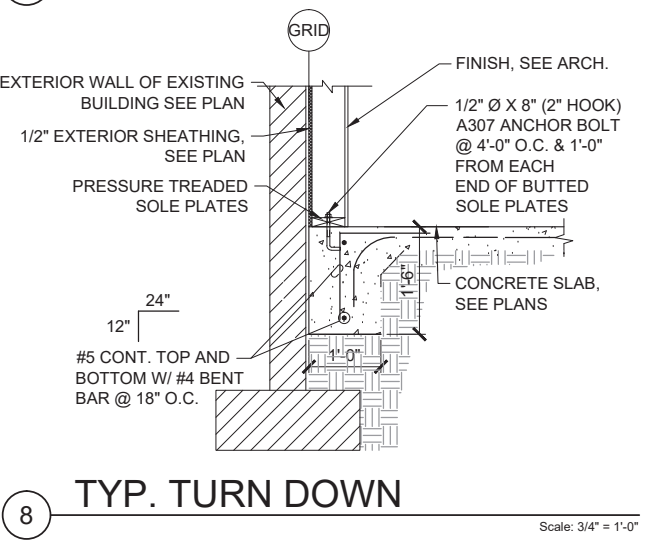
6 TYP. BOLLARD DETAIL

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



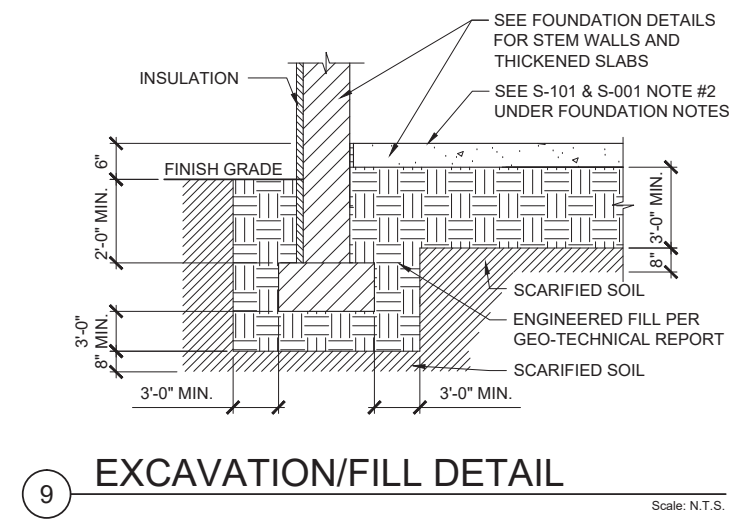
7 TYP. POST TURN DOWN

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



8 TYP. TURN DOWN

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



9 EXCAVATION/FILL DETAIL

Scale: N.T.S.

PLOT DATE: 5/18/2023 2:16 PM
DRAWN DATE: 5/18/2023 2:15 PM
PROJECT: 02183-11-01-STRUCTURAL/STRUCTURAL SET

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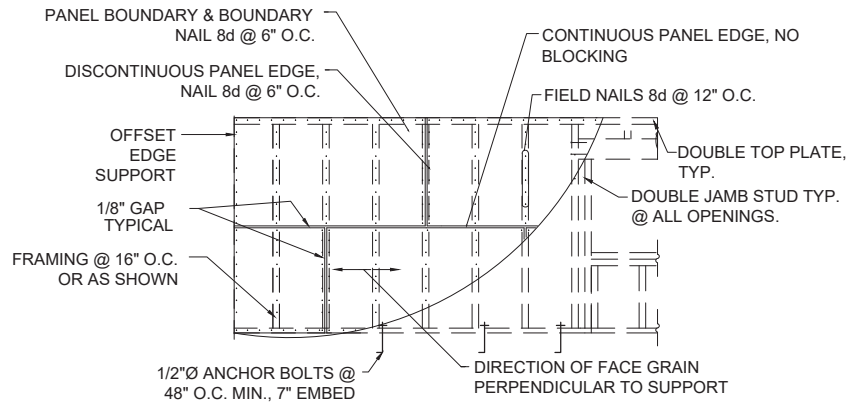
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|--------|----------|-------------|--------------------------------|
| REV NO | REV DATE | DESCRIPTION | PROJECT NUMBER: SEC183-11 |
| | | | DESIGNED BY: JCH |
| | | | DRAWN BY: DM |
| | | | CHECKED BY: JCH |
| | | | PRIME DESIGN PROFESSIONAL: JCH |
| | | | PROJECT DATE: MAY 22, 2023 |

TYPICAL FRAMING DETAILS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

NOTES:

1. STAGGER JOINTS AS SHOWN.
2. MIN SIZE OF SHEET SHALL BE 4'-0"x4'-0" EXCEPT AT ENDS.
3. NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
4. TOLERANCE ON NAILING; THE AVERAGE NAIL SPACING OVER ANY 4'-0" LENGTH SHALL BE AT LEAST THAT NOTED.

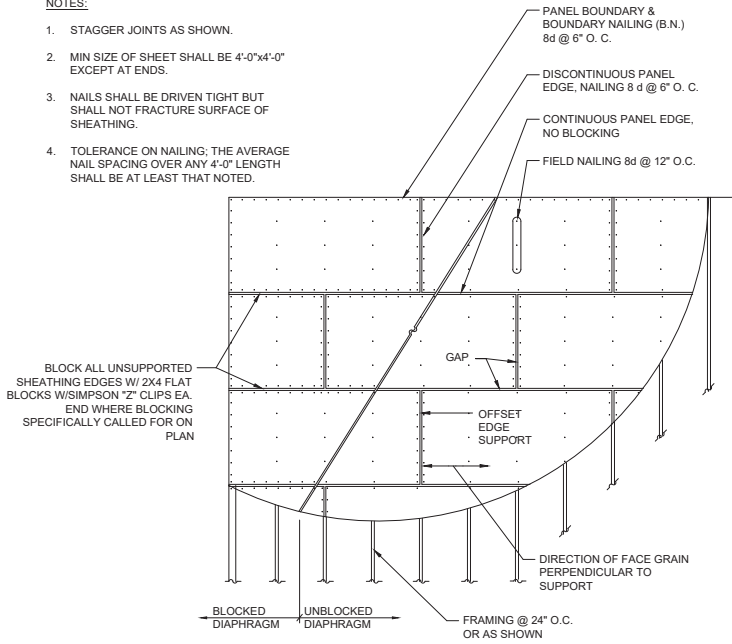


NOTE: EXTERIOR WALLS SHALL HAVE STRUCTURAL GRADE I SHEATHING. (OSB/PLYWOOD) CONTINUOUS.

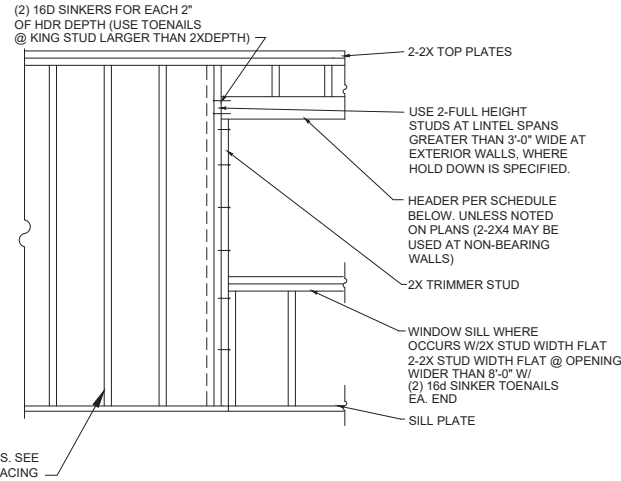
1 INTERIOR SHEAR WALLS-NAILING DETAIL Scale: N.T.S.

NOTES:

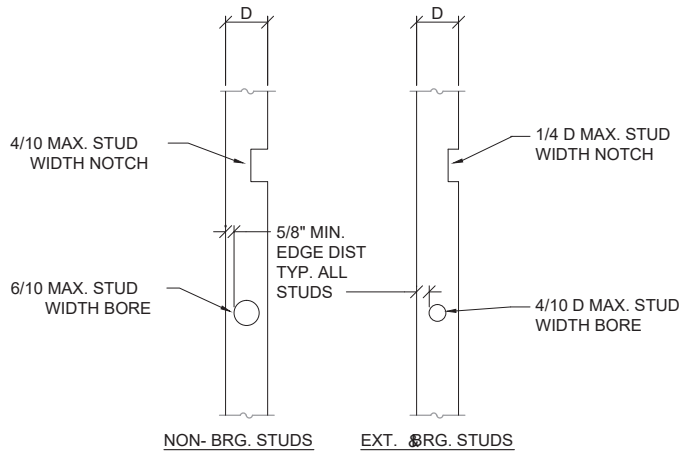
1. STAGGER JOINTS AS SHOWN.
2. MIN SIZE OF SHEET SHALL BE 4'-0"x4'-0" EXCEPT AT ENDS.
3. NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
4. TOLERANCE ON NAILING; THE AVERAGE NAIL SPACING OVER ANY 4'-0" LENGTH SHALL BE AT LEAST THAT NOTED.



2 FLOOR/ROOF SHEATHING (NAILING) Scale: N.T.S.



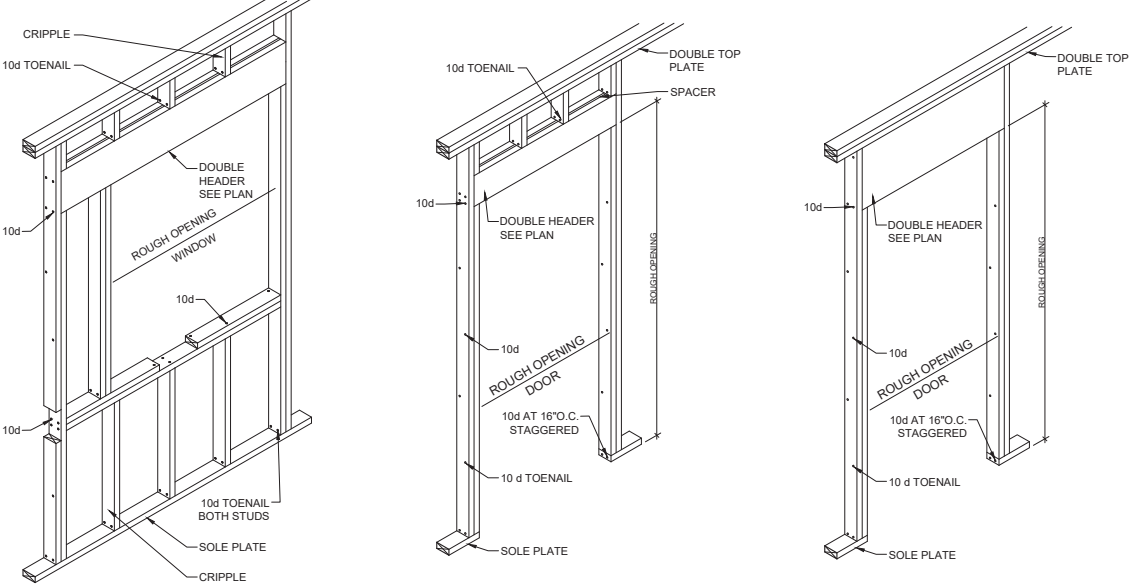
3 TYP. STUD WALL/WINDOW FRAMING Scale: N.T.S.



| NOTCH OR BORE FRACTION OF STUD | 2x4 | 2x6 | 2x8 |
|--------------------------------|--------|--------|--------|
| 1/4 D | 7/8" | 1 3/8" | 1 3/4" |
| 4/10 D | 1 3/8" | 2 1/8" | 3" |
| 6/10 D | 2" | 3 1/4" | 4 1/4" |

NOTE: NOTCH AND BORE NOT TO OCCUR ON SAME STUD WITHIN 4ft OF EACH OTHER

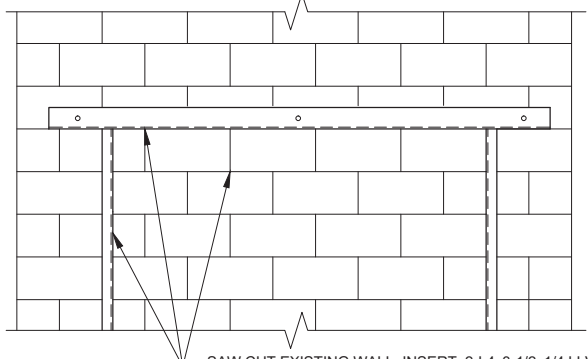
4 NON-BEARING STUD WALL BELOW BEAM Scale: 3/4"=1'-0"



5 TYPICAL FRAMING AT OPENINGS Scale: 3/4"=1'-0"

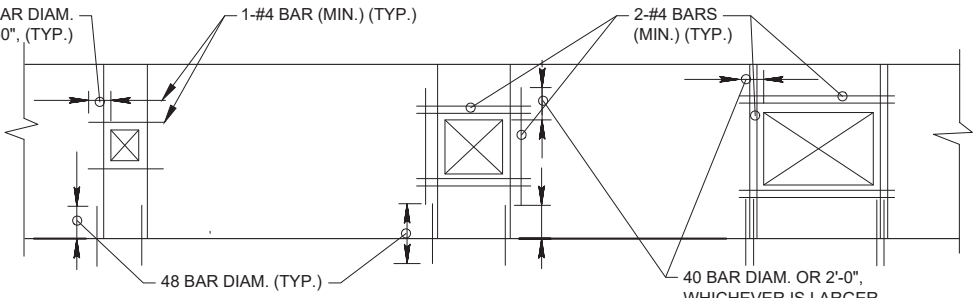
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SAW CUT EXISTING WALL, INSERT 2-L4x3-1/2x1/4 LLV. BOLT ANGLES TO THE WALL WITH 3-1/2" Ø THRU BOLTS. REMOVE EXISTING WALL BELOW FOR DOOR OPENING. PLACE STEEL CHANNELS FOR SUPPORT AND WELD TO ANGLES. ANCHOR CHANNEL W/3-1/2" EXPANSION BOLTS, EACH CHANNEL.

3 REINFORCING AROUND WALL OPENINGS Scale: 1"=1'-0"



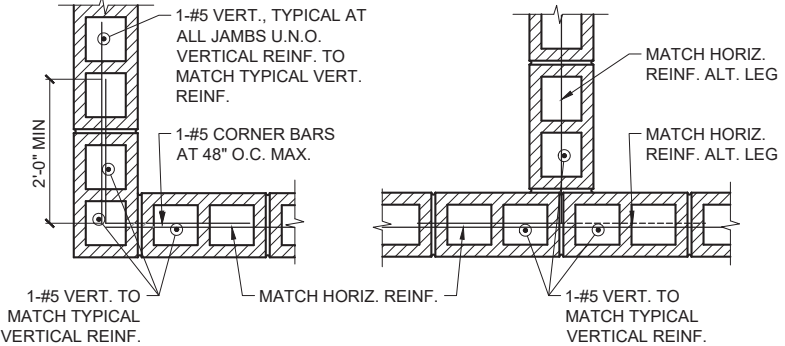
CASE I: APPLIES TO (1) ALL OPENINGS IN NON-STRUCTURAL PARTITIONS OVER 100 SQ. IN., AND (2) ANY OPENING 2 FEET OR LESS BOTH WAYS BUT OVER 100 SQ. IN. IN STRUCTURAL OR EXTERIOR WALLS.

CASE II: APPLIES TO STRUCTURAL AND EXTERIOR WALL WHEN OPENING EXCEEDS 2 FEET BUT NOT MORE THAN 4 FEET IN EITHER DIRECTION.

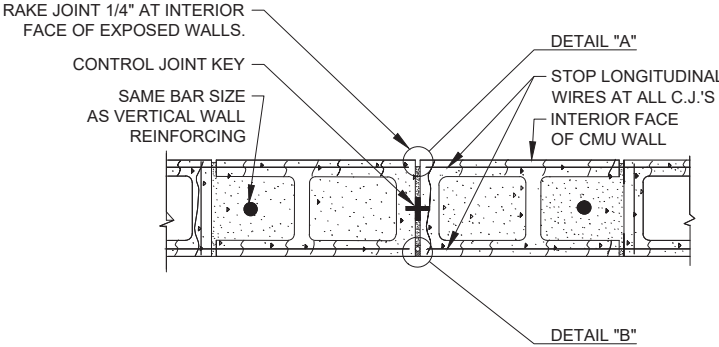
CASE III: APPLIES TO STRUCTURAL AND EXTERIOR WALLS WHEN OPENING EXCEEDS 4 FEET IN EITHER DIRECTION.

- NOTES**
1. VERTICAL REINFORCEMENT OF 2 BARS, EACH BAR MAY BE PLACED IN A SEPARATE CELL.
 2. VERTICAL BARS SHALL BE OF THE SAME SIZE, EXTENT, AND ANCHORAGE AS THE TYPICAL REINF. IN THAT WALL UNLESS OTHERWISE INDICATED.
 3. VERTICAL BARS CAN BE PART OF NORMAL REINF. IN THE WALL.
 4. REINFORCEMENT AT TOP OF OPENINGS SHALL BE NOT LESS THAN THAT REQUIRED BY THE LINTEL DESIGN.

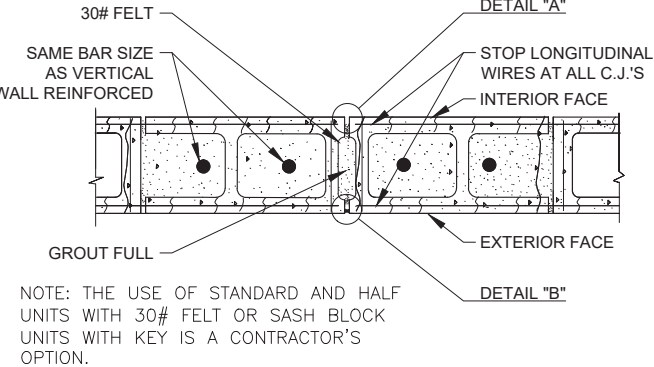
2 REINFORCING AROUND WALL OPENINGS Scale: 3/4"=1'-0"



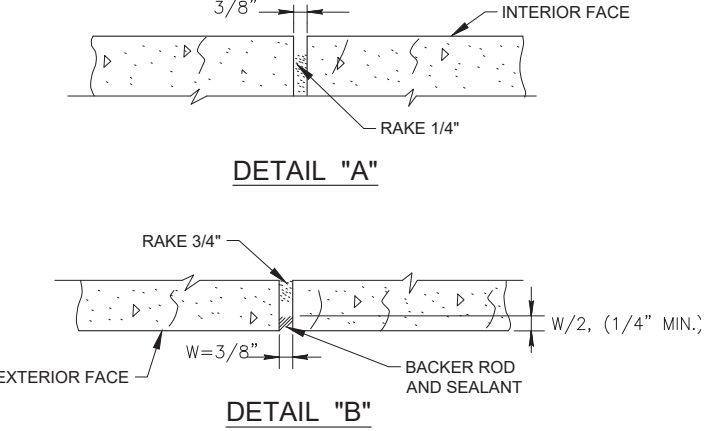
1 CMU CORNER DETAIL Scale: 1/2"=1'-0"



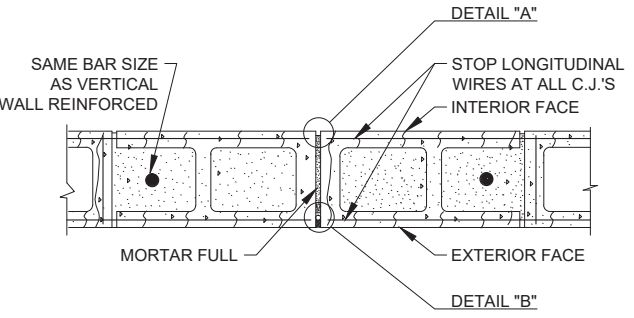
CMU CONTROL JOINT WITH RUBBER KEY



CMU CONTROL JOINT WITH GROUT KEY



DETAIL "B"



CMU CONTROL JOINT (C.J.)

4 CMU CONTROL JOINT DETAIL Scale: 3/4"=1'-0"

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|--------|----------|-------------|----------------|-------------|----------|------------|---------------------------|--------------|
| | | | SFC183-11 | JCH | DM | JCH | JCH | MAY 22, 2023 |

TYPICAL FRAMING DETAILS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

SITE DEVELOPMENT PLAN FOR CHIMAYO FIRE STATION ADDITION CHIMAYO, NEW MEXICO



VICINITY PLAN



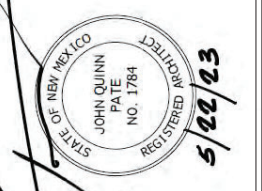
LEGEND

- GREATER CHIMAYO MDWCA
- EXISTING ASPHALT DRIVEWAY

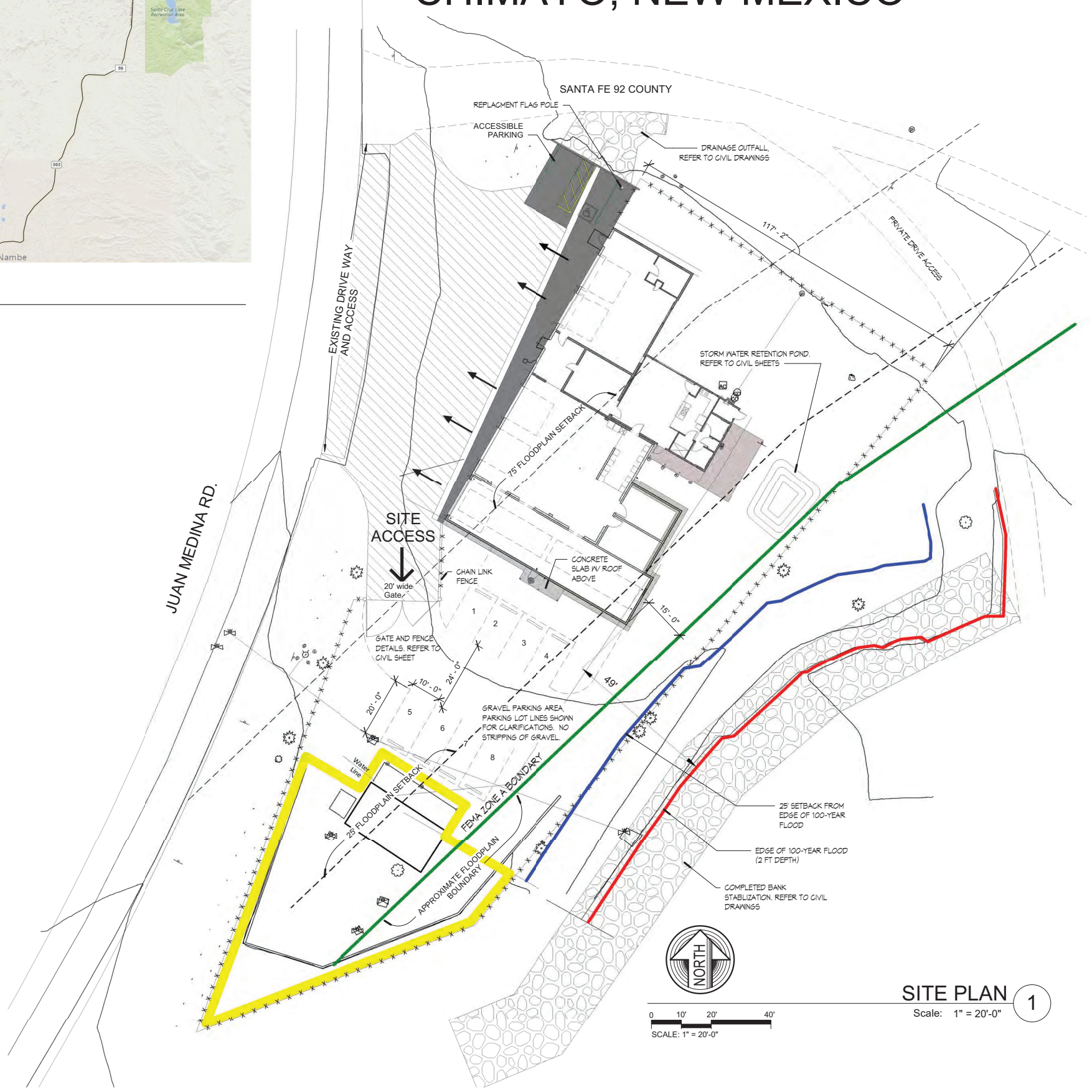
MOLZENCORBIN
2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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| | | | SFC222-11 | JA | IMS | JA | JOHN Q. PATE, P.E. | MAY 2023 |



UPC # : 1-054-119-455-462 / 000-000

226 JUAN MEDINA ROAD,
CHIMAYO, NM
T20N R9E S12
37.34 AC
N.M.P.M. SANTA FE COUNTY,
STATE OF NEW MEXICO
LOT 4

**GENERAL NOTES FOR
SITE DEVELOPMENT PERMIT**

- LANDSCAPE AND BUFFERING - SEE SCREENING REPORT.
- LIGHTING PER CODE AND NIGHT SKY PROTECTION ACT.
- WATER, SEWER AND GAS UTILITIES PER CODE.
- LETTER FROM GREATER CHIMAYO (MDWCA). "READY, WILLING, AND BE ABLE TO PROVIDE SERVICE."
- TERRAIN MANAGEMENT PER CODE.
- SOLID WASTE: USERS WILL CONTINUE TO HAUL REFUSE TO TRANSFER STATION.
- THE SITE IS WITHIN THE CHIMAYO DESIGN OVERLAY DISTRICT DESIGN WILL COMPLY.
- NO SIGNAGE MODIFICATION.



SCALE: 1" = 20'-0"

SITE PLAN ①
Scale: 1" = 20'-0"

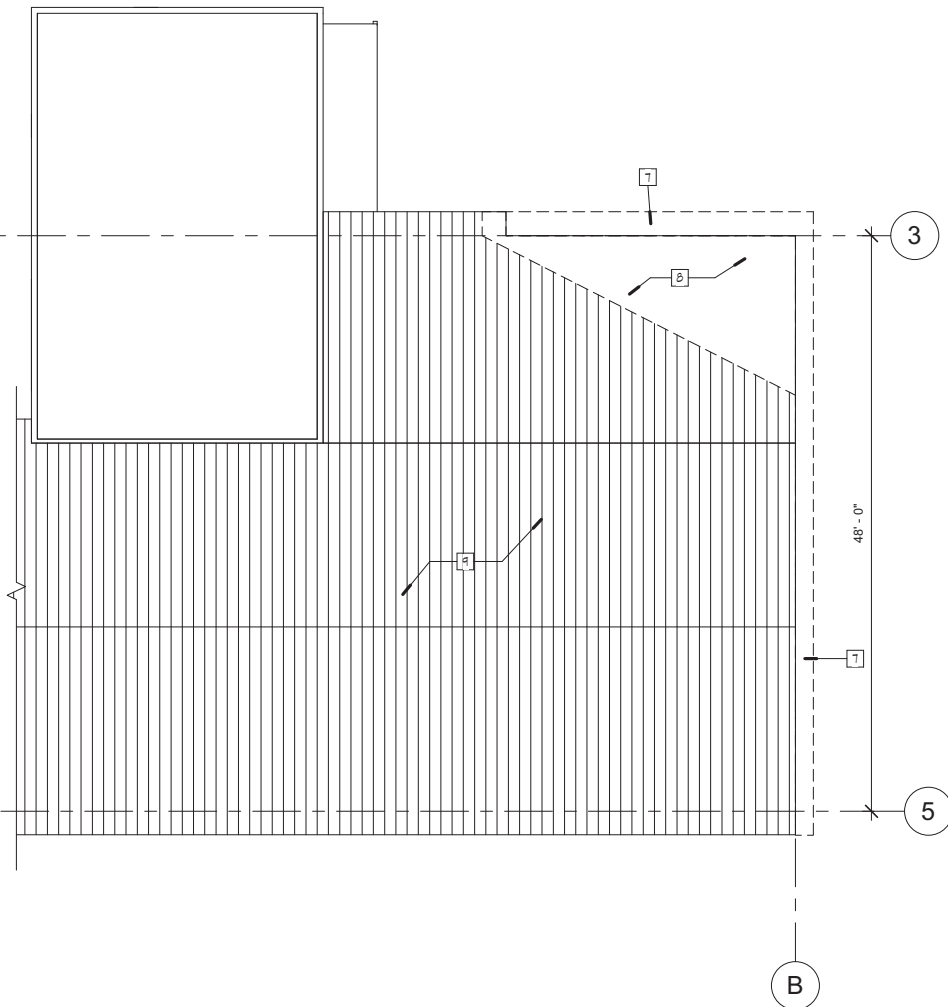
SITE DEVELOPMENT PLAN

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

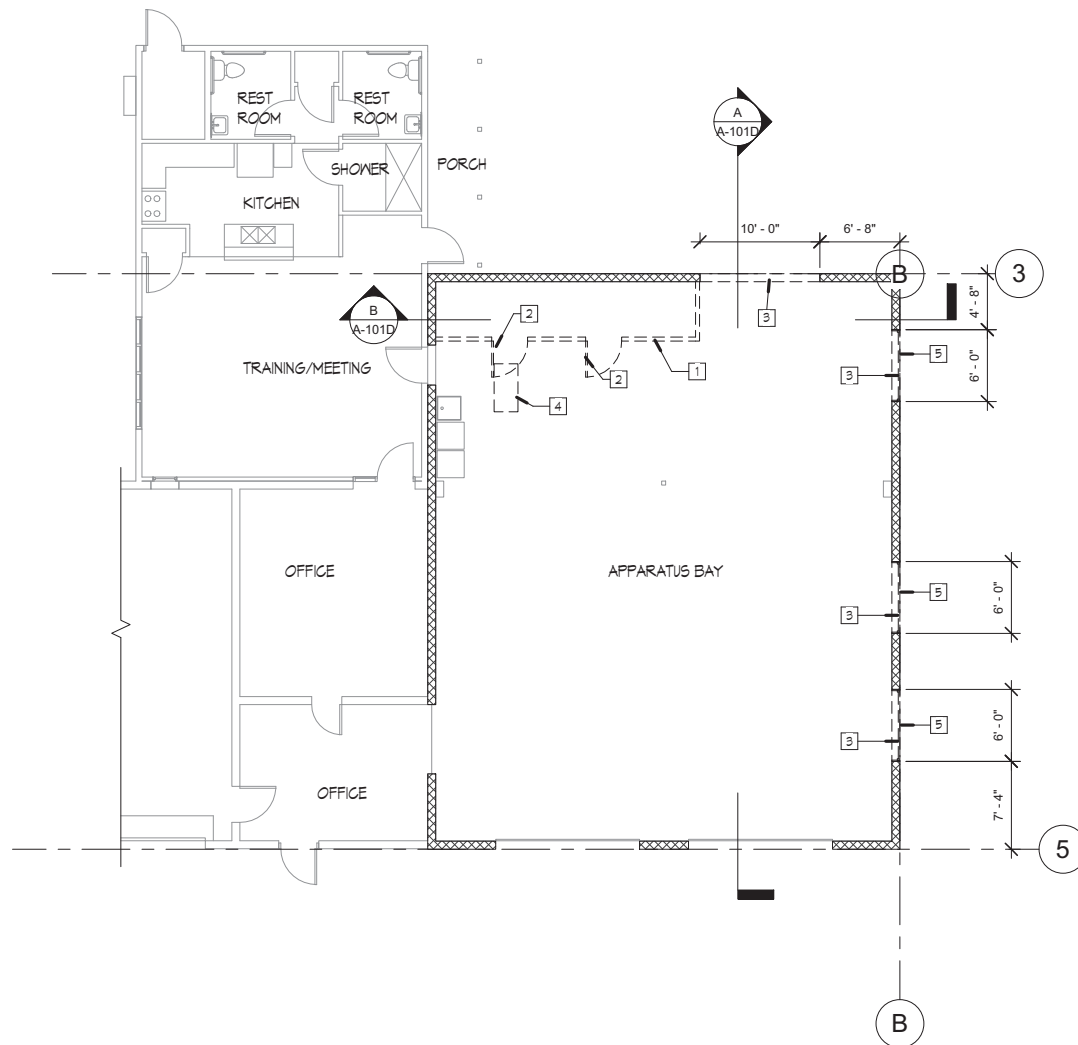
A-001

SHEET 24 of 41

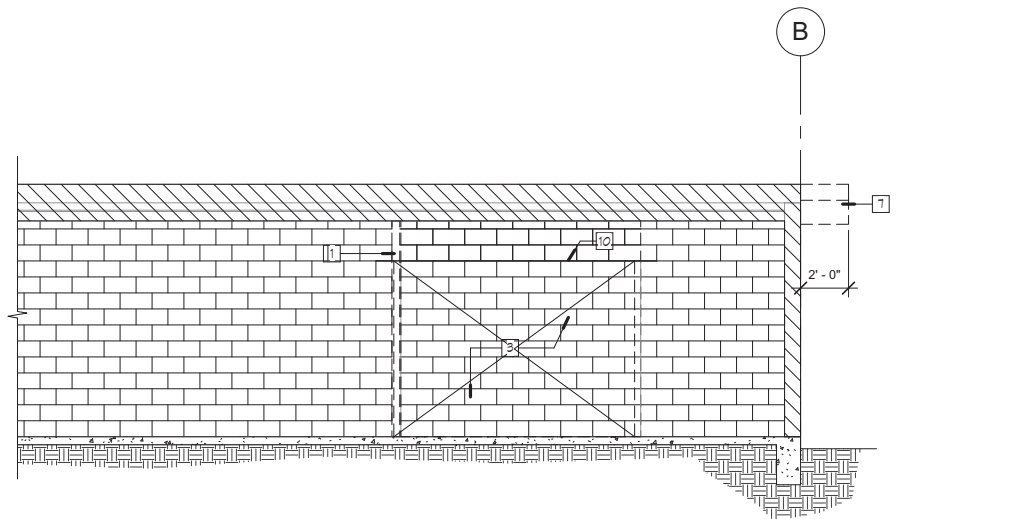
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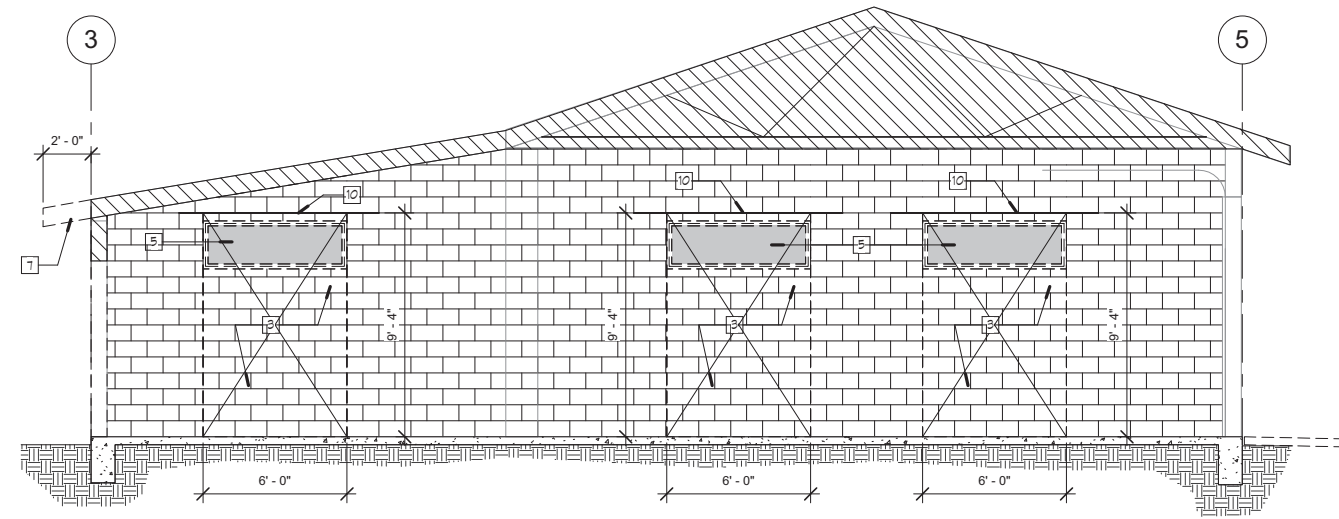
DEMOLITION ROOF PLAN 2
Scale: 1/8" = 1'-0"



DEMOLITION PLAN 1
Scale: 1/8" = 1'-0"



BUILDING SECTION B
Scale: 1/4" = 1'-0"



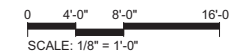
BUILDING SECTION A
Scale: 1/4" = 1'-0"

GENERAL NOTES

- A. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION.
- B. REMOVE AND DISPOSE OF EXISTING FLOOR FINISH AND BASE WHERE NEW FLOORING AND BASE IS NOTED AND / OR SCHEDULE ON A-601.
- C. REFER TO CIVIL PLANS FOR SITE IMPROVEMENT AND UTILITY REMOVALS AND RELOCATIONS.
- D. REFER TO MECHANICAL PLANS AND NOTES FOR DEMOLITION.
- E. REFER TO ELECTRICAL PLANS AND NOTES FOR DEMOLITION.

KEYED NOTES

- 1. REMOVE AND DISPOSE OF WALL.
- 2. REMOVE AND DISPOSE OF DOOR AND FRAME.
- 3. REMOVE AND DISPOSE OF CMU BLOCK WALL. COORDINATE WITH STRUCTURAL DRAWINGS.
- 4. REMOVE AND DISPOSE OF LIGHT FIXTURE.
- 5. REMOVE AND DISPOSE OF EXISTING GLAZING AND FRAME.
- 6. REMOVE AND DISPOSE OF ROOF OVERHANG OF EXISTING STRUCTURE.
- 7. REMOVE OVERHANG TO FACE OF CMU BLOCK WALL.
- 8. REMOVE AND DISPOSE OF METAL ROOF COVERING FOR INSTALLATION OF DRAINAGE CRICKET AND ROOF SYSTEM.
- 9. EXISTING METAL ROOF TO REMAIN.
- 10. STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS DETAIL 3/S-502



MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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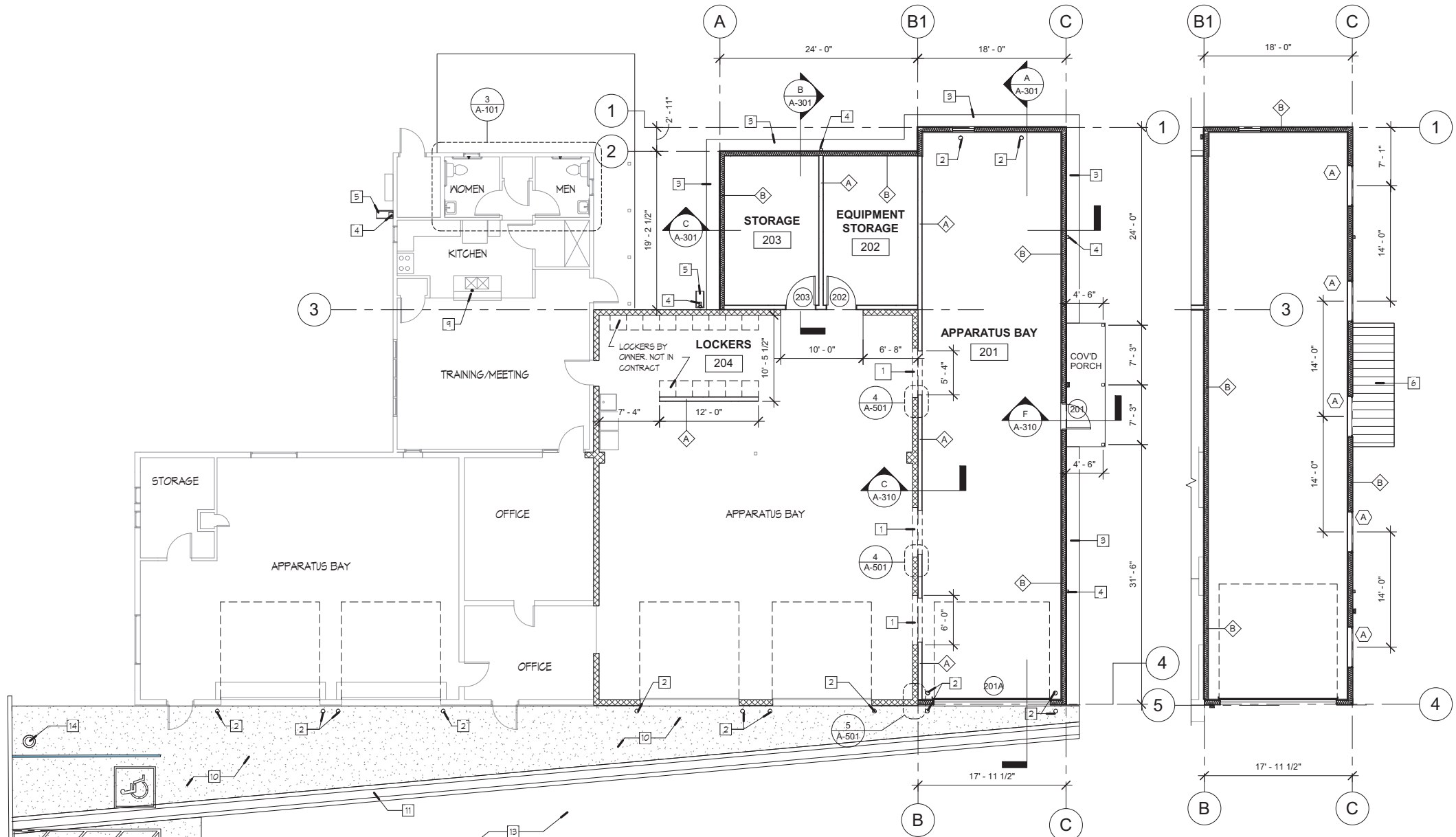
| REV NO | REV DATE | DESCRIPTION | PROJECT NUMBER | DESIGNED BY | DRAWN BY | CHECKED BY | PRIME DESIGN PROFESSIONAL | PROJECT DATE |
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| | | | SFC222-11 | JSA | IWS | JOP | JOHN Q. PATE, RA | MAY 2023 |

DEMOLITION FLOOR PLAN, ROOF PLAN, BUILDING SECTIONS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

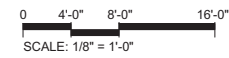
A-101D

SHEET 25 of 41



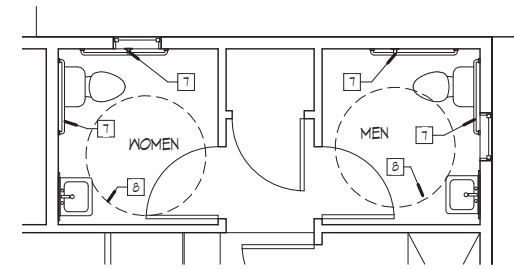
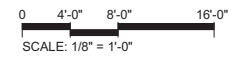
FLOOR PLAN 1

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



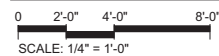
CLERESTORY WINDOWS 2

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



MEN / WOMEN RESTROOM PLAN 3

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



GENERAL NOTES

- A. SEE SITE PLAN, CIVIL DRAWINGS CONCRETE FLAT WORK.
- B. STUD FRAMED WALL DIMENSIONS ARE FACE OF STUD, EXCEPTION ARE NOTED.
- C. CMU WALLS ARE TO DIMENSIONED TO FACE OF CMU.
- D. CLEAR (CLR) DIMENSIONS ARE TO FACE OF FINISH.
- E. CENTERLINE DIMENSIONS (CL) ARE TO CENTER OF DOORS, GLAZED UNITS, FIXTURES, OR COLUMNS.
- F. VERTICAL DIMENSIONS NOTED AS A.F.F. (ABOVE FINISH FLOOR) ARE DISTANCES FROM THE TOP OF THE FINISHED INTERIOR SLAB AND NOT TAKE FLOOR COVERING MATERIALS INTO ACCOUNT.
- G. ELEVATION OF FINISHED INTERIOR SLAB IS NOTED ON THE GRA PLAN.
- H. REFER TO DOOR AND STOREFRONT SCHEDULES FOR OPENING TYPES.
- I. REFER TO FINISH SCHEDULE FOR ROOM FINISHING TYPES ON S-A-601.

KEYED NOTES

- 1. CMU BLOCK OPENING. REFER TO STRUCTURAL DRAWINGS FOR SUPPORT.
- 2. STEEL BOLLARDS, REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION, COORDINATE PLACEMENT WITH OH DOOR CLEARANCES.
- 3. CONCRETE APRON INSTALLED PERIMETER OF BUILDING. SLOPE 1/4" PLF AWAY FROM BUILDING AS REQUIRED FOR DRAINAGE.
- 4. DOWN SPOUT
- 5. CONCRETE SLASH BLOCK
- 6. ROOF BELOW
- 7. 1 1/2" DIAMETER X 18" VERTICAL GRAB BAR. REFER TO SHEET 6-002 FOR LOCATION.
- 8. 60" DIAMETER ACCESSIBLE TURN AROUND.
- 9. BOTTLE FILLER SINK FAUCET; CHICAGO T12-ABCP OR SIMILAR.
- 10. REPAVE ENTRY, REFER TO CIVIL SHEETS.
- 11. TRENCH DRAIN, REFER TO CIVIL SHEETS.
- 12. CONCRETE SLAB, REFER TO CIVIL SHEETS.
- 13. ASPHALT PAVING TO REMAIN.
- 14. FLAG POLE. CONFIRM AND VERIFY LOCATION WITH OWNER.

LEGEND:

- ROOM NAME
- 101 ROOM IDENTIFIER
- 101 DOOR OPENING IDENTIFIER
- 1 A-301 SECTION INDICATOR
- 1 A-401 DETAIL INDICATOR
- 1 KEYED NOTE INDICATOR
- 0'-0" FIN. FLR. ELEVATION MARKER

WALL LEGEND

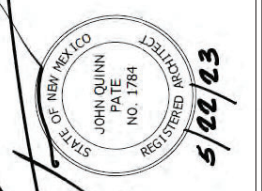
- A INTERIOR PARTITION
6" WOOD STUD FRAMING WITH TYPE 'X' GYPSUM BOARD ON EACH SIDE. REFER TO WALL SECTION AS PROVIDED.
- B EXTERIOR WALL
6" WOOD STUD FRAMING WITH BATT INSULATION. EXTERIOR GRADE SHEATHING BOARD ON THE EXTERIOR SIDE. INSULATION FINISH SYSTEM. REFER TO WALL SECTION AS PROVIDED.

MOLZENCORBIN

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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



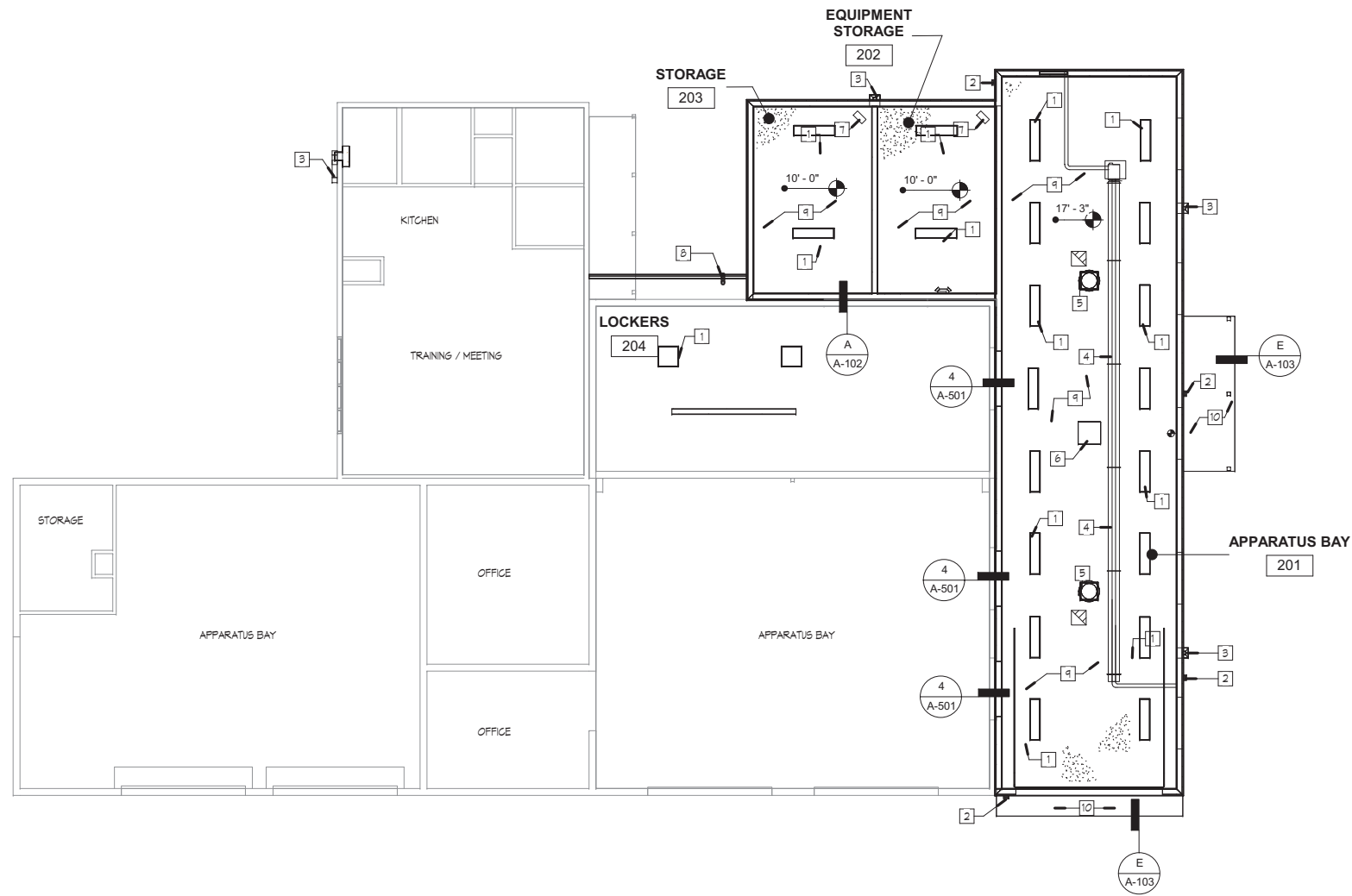
| REV NO | REV DATE | DESCRIPTION | JSA | IVS | JOP | PROJECT DATE |
|--------|----------|-------------|------------|-----|-----|--------------|
| | | | SECC222-11 | | | MAY 2023 |

FLOOR PLAN

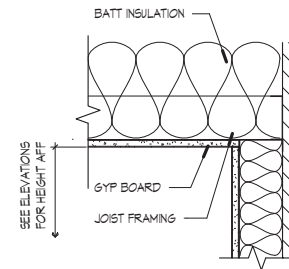
CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

A-101

SHEET 26 of 41



REFLECTED CEILING PLAN 1
Scale: 1/8" = 1'-0"



GYP. BOARD SOFFIT A
Scale: 1/2" = 1'-0"

GENERAL NOTES

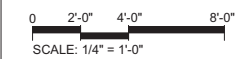
- A. UNLESS NOTED OTHERWISE, EXISTING CEILING TO REMAIN.
- B. SEE ELECTRICAL FOR LIGHTING TO BE REPLACED AND FIXTURE SCHEDULE.
- C. REFER TO SHEET M-101 AND M601 FOR EXTENT OF HEATING/ COOLING SYSTEMS TO BE INSTALLED. NOT ALL EXISTING TO REMAIN ARE ON THIS SHOWN ON THIS PLAN

KEYED NOTES

- 1. LIGHT FIXTURE. REFER TO SHEET E-103.
- 2. EXTERIOR LIGHTING. REFER TO SHEET E-101B.
- 3. DRAINAGE CONDUCTOR HEAD WITH DOWNSPOUT.
- 4. RADIANT CEILING HUNG HEATING SYSTEM.
- 5. EXHAUST FAN.
- 6. EXHAUST REMOVAL SYSTEM. REFER TO SHEET M-101.
- 7. UNIT HEATER. REFER TO SHEET M-101.
- 8. GUTTER AND DOWNSPOUT
- 9. 5/8" TYPE X GYMS BOARD
- 10. FIBER CEMENT SOFFIT BOARD.

LEGEND:

- LIGHT FIXTURE. REFER TO SHEET E-105
- BUILDING LIGHT FIXTURE. REFER TO SHEET E-105
- EMERGENCY EGRESS LIGHT FIXTURE WITH BATTERY PACK & OUTLET
- ILLUMINATED EXIT SIGNAGE
- GYPSUM BOARD CEILING



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NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH



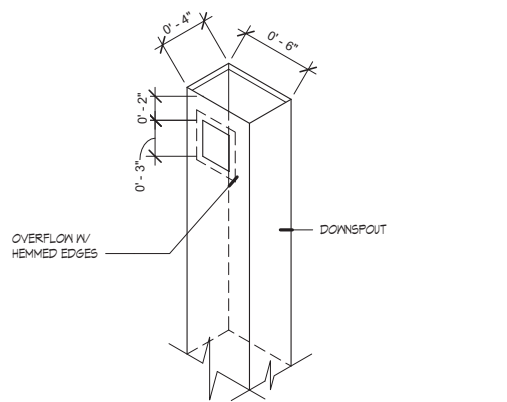
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|--------|----------|-------------|----------------|-------------|----------|------------|---------------------------|--------------|
| | | | SFC222-11 | JSA | IWS | JSA | JOHN Q. PATE, P.E. | MAY 2023 |

REFLECTED CEILING PLAN

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

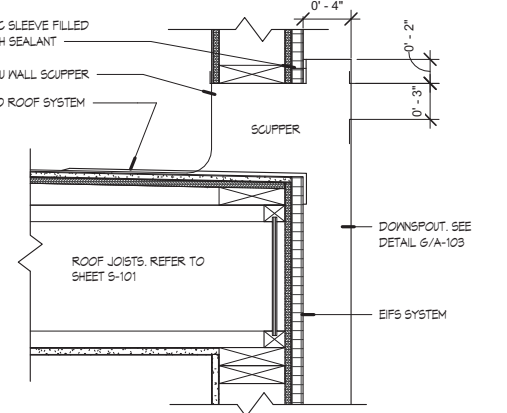
A-102

SHEET 27 of 41



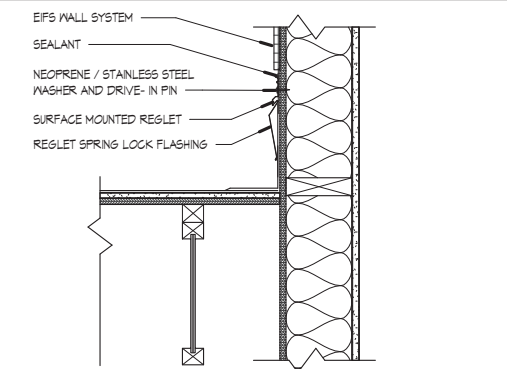
AXOMETRIC DOWNSPOUT (H)

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



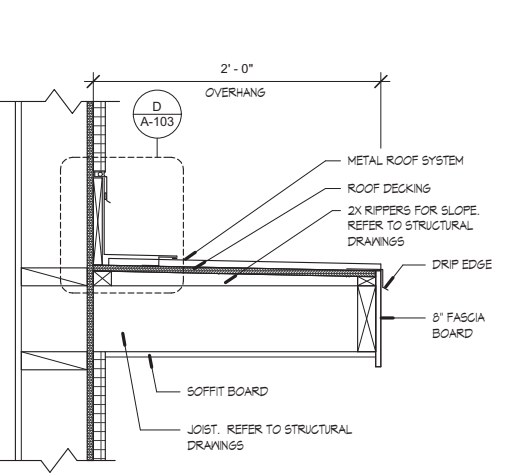
PARAPET SCUPPER (G)

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



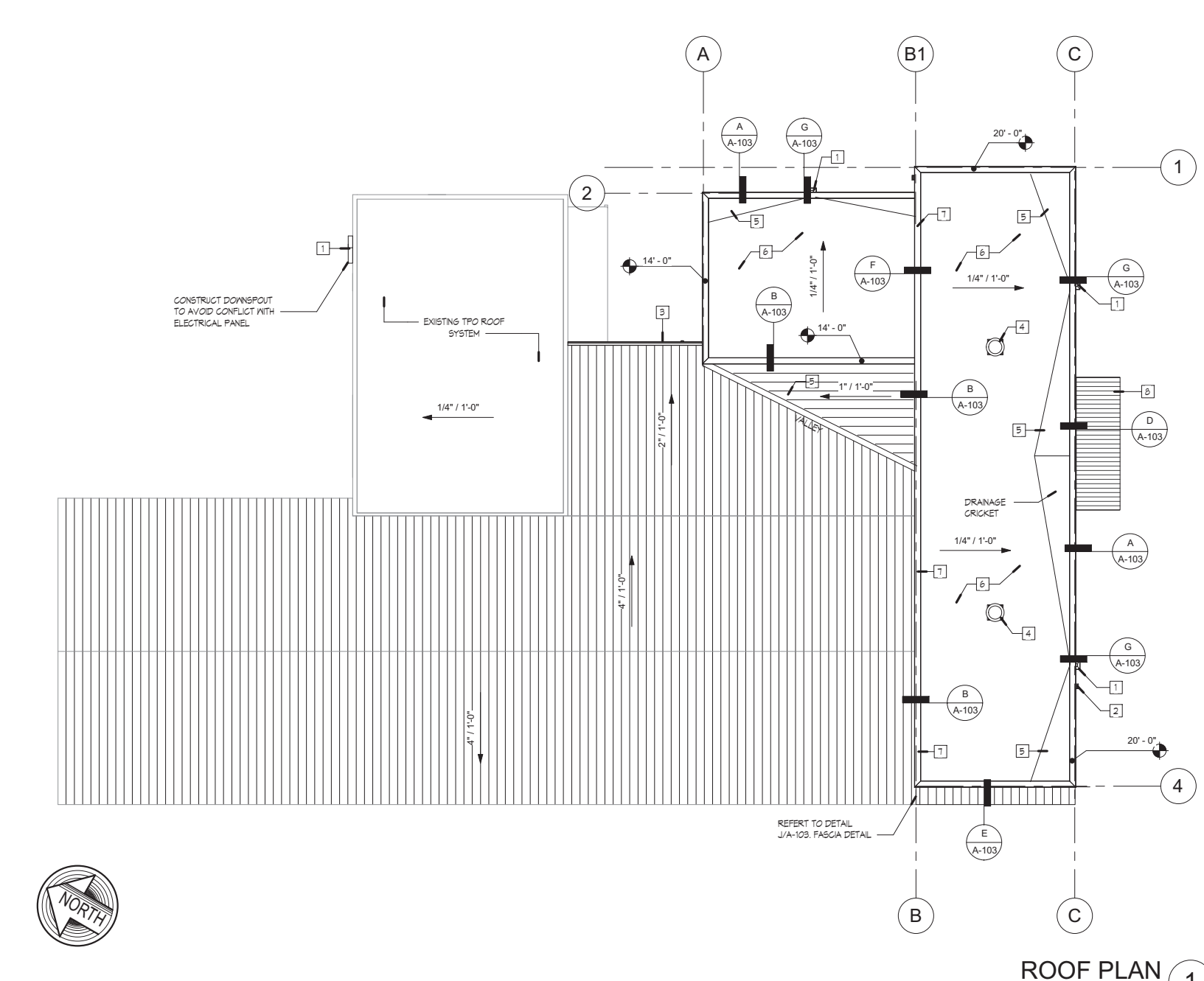
ROOF REGLET DETAIL (F)

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



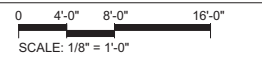
ROOF OVERHANG (E)

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



ROOF PLAN (1)

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



GENERAL NOTES
 A. FOR MECHANICAL PENETRATIONS AND MODIFICATIONS TO EXISTING, REFER TO MECHANICAL DRAWINGS.

KEYED NOTES
 1 CONDUCTOR WITH DOWNSPOUT
 2 EXTERIOR LIGHTING
 3 GUTTER WITH DOWNSPOUT
 4 EXHAUST FAN
 5 ROOF CRICKET
 6 THERMOPLASTIC OLEFIN ROOFING SYSTEM
 7 METAL COPING
 8 METAL ROOF SYSTEM MATCH EXISTING

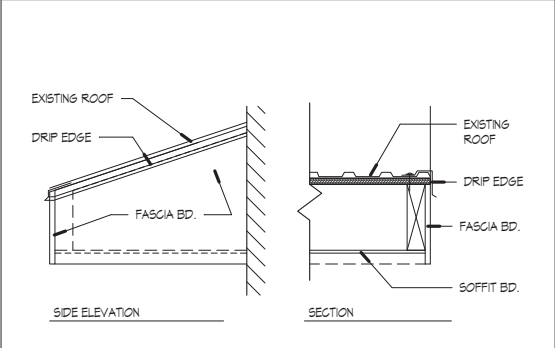
MOLZENCORBIN
 2701 Miles Road SE
 Albuquerque, New Mexico 87106
 505 242 5700 office
 505 242 0673 fax
 MolzenCorbin.com

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NUMERIC SCALE CONFIRMATION
 DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

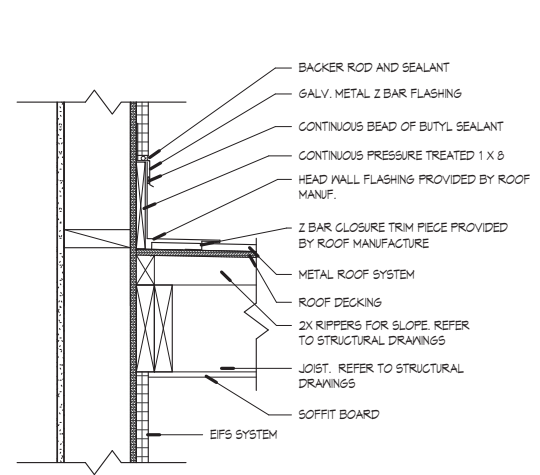


| REV NO | REV DATE | DESCRIPTION | PROJECT NUMBER | DESIGNED BY | DRAWN BY | CHECKED BY | PRIME DESIGN PROFESSIONAL | PROJECT DATE |
|--------|----------|-------------|----------------|-------------|----------|------------|---------------------------|--------------|
| | | | SFC222-11 | JSA | IWS | JOP | JOHN Q. PATE, P.E. RA | MAY 2023 |



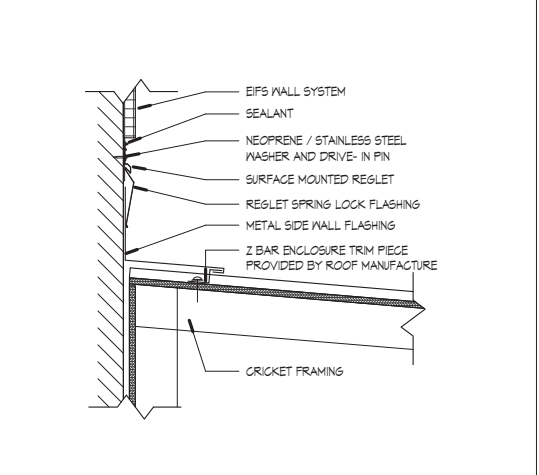
FASCIA DETAIL (J)

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



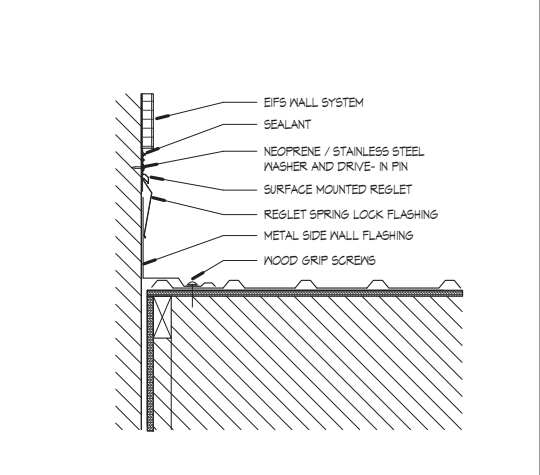
PORTAL FLASHING DETAIL (D)

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



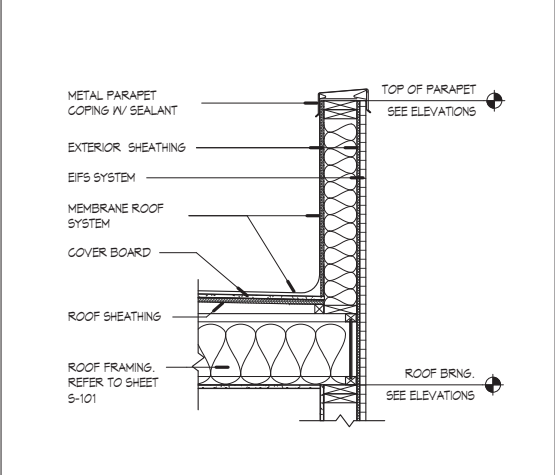
END WALL ROOF DETAIL (C)

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



SIDEWALL FLASHING DETAIL (B)

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

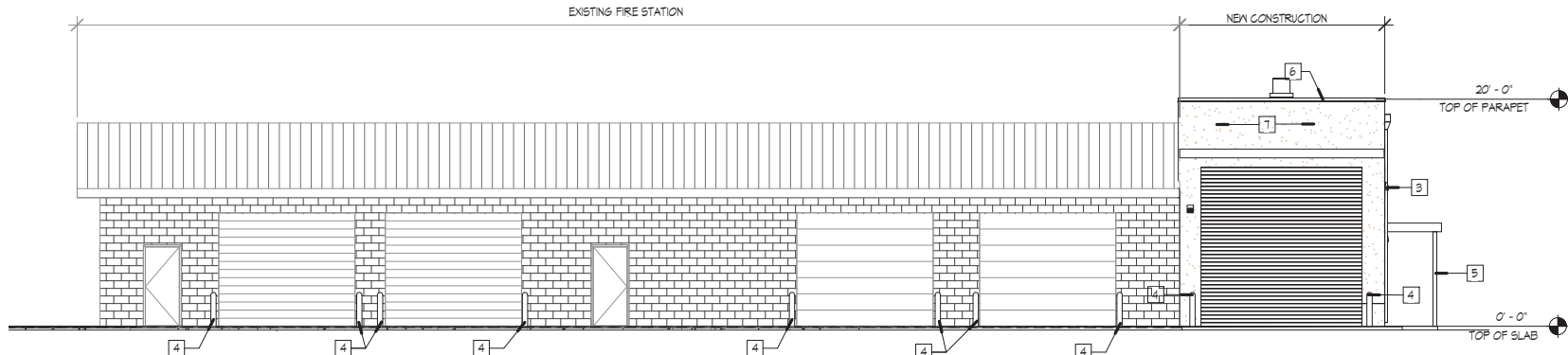


TYPICAL ROOF PARAPET (A)

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

ROOF PLAN AND DETAILS
 CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NEW MEXICO

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WEST ELEVATION 1
Scale: 1/8" = 1'-0"

KEYED NOTES

- 1 CONDUCTOR WITH DOWNSPOUT
- 2 LOUVERS
- 3 EXTERIOR LIGHTING
- 4 BOLLARD
- 5 STRUCTURAL STEEL FRAMING
- 6 PARAPET COPING
- 7 EXTERIOR INSULATION AND FINISH SYSTEMS
- 8 CONCRETE SPLASH BLOCK
- 9 DOWNSPOUT
- 10 GUTTER WITH DOWNSPOUT
- 11 18" WIDE CONCRETE APRON - REFER TO SHEET A-101
- 12 EXTERIOR GRADE FASCIA BOARD

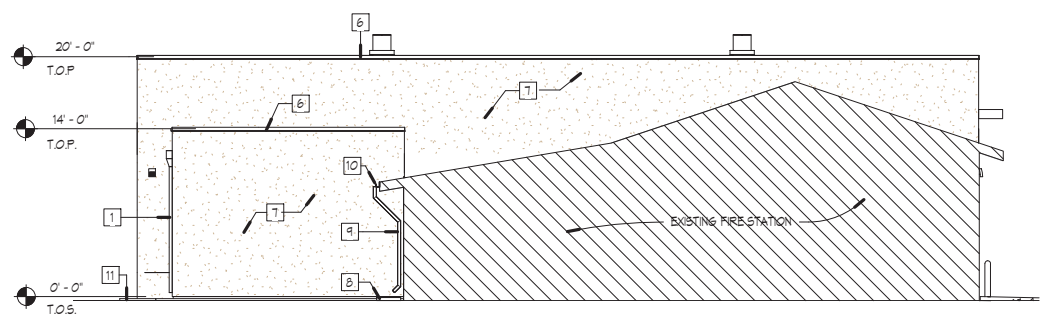
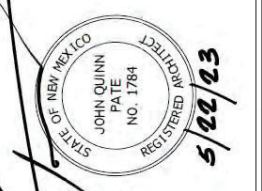
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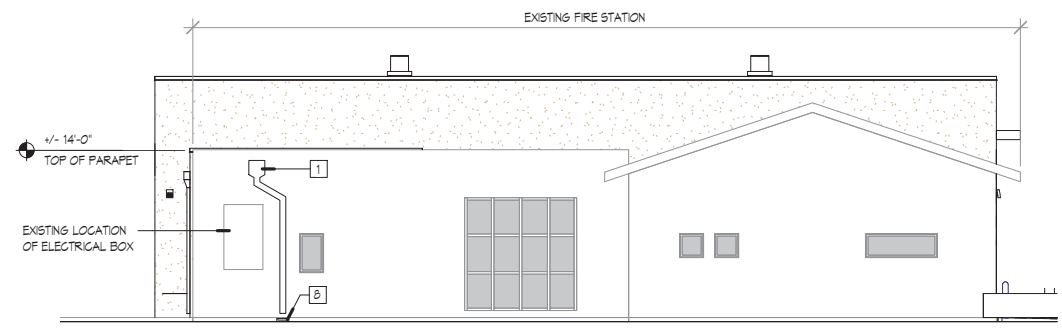
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NUMERIC SCALE CONFIRMATION

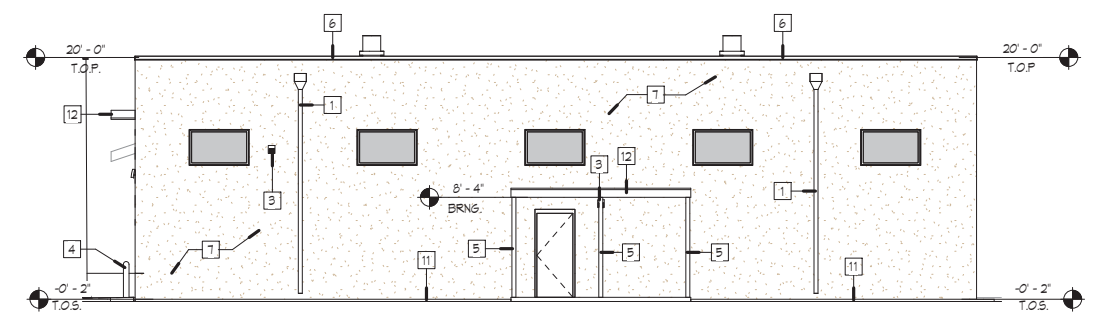
DRAWINGS ARE DEPICTED AT
INTENDED NUMERIC SCALES IF THIS
BAR EQUALS ONE INCH



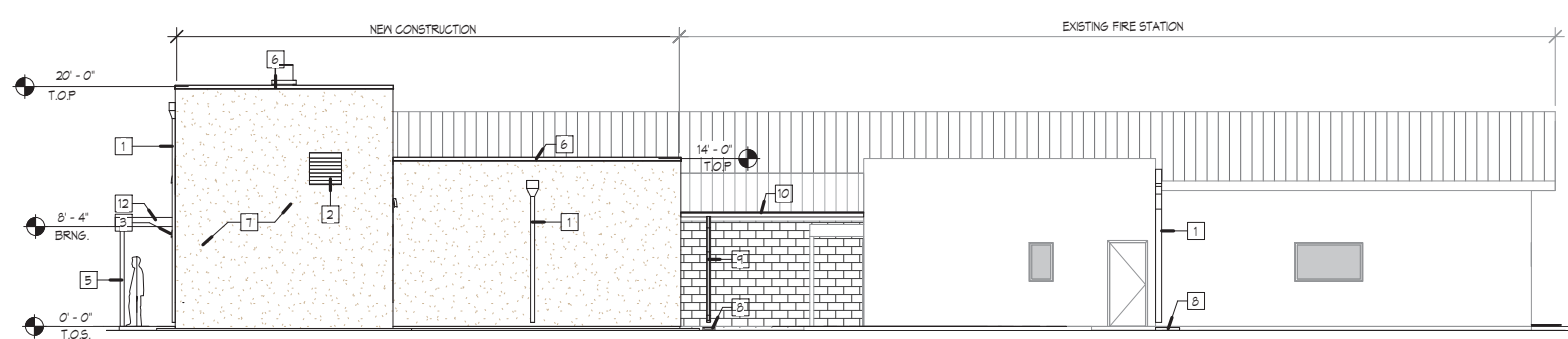
PARTIAL NORTH ELEVATION 2
Scale: 1/8" = 1'-0"



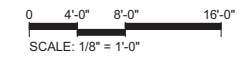
NORTH ELEVATION 3
Scale: 1/8" = 1'-0"



SOUTH ELEVATION 4
Scale: 1/8" = 1'-0"



EAST ELEVATION 5
Scale: 1/8" = 1'-0"



| REV NO | REV DATE | DESCRIPTION |
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| PROJECT NUMBER: | SFC222-11 |
| DESIGNED BY: | JSA |
| DRAWN BY: | IWS |
| CHECKED BY: | JSA |
| PRIME DESIGN PROFESSIONAL: | JOHN Q. PATE, P.E. |
| PROJECT DATE: | MAY 2023 |

EXTERIOR ELEVATIONS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

A-201

SHEET 29 of 41

KEYED NOTES

- 1 SINGLE-PLY MEMBRANE ROOFING
- 2 BATT INSULATION
- 3 CEILING HUNG RADIANT HEATING SYSTEM
- 4 LIGHT FIXTURE, TYP
- 5 CONDUCTOR WITH DOWNSPOUT
- 6 60 MIL FULLY ADHERED THERMOPLASTIC OLEFIN ROOFING SYSTEM
- 7 5/8" TYPE "X" GYPSUM WALLBOARD
- 8 18" WIDE CONCRETE APRON - REFER TO SHEET A-101
- 9 PANEL DOORS-SECTIONAL
- 10 METAL COPING
- 11 BOLLARD
- 12 EXTERIOR INSULATION AND FINISH SYSTEMS

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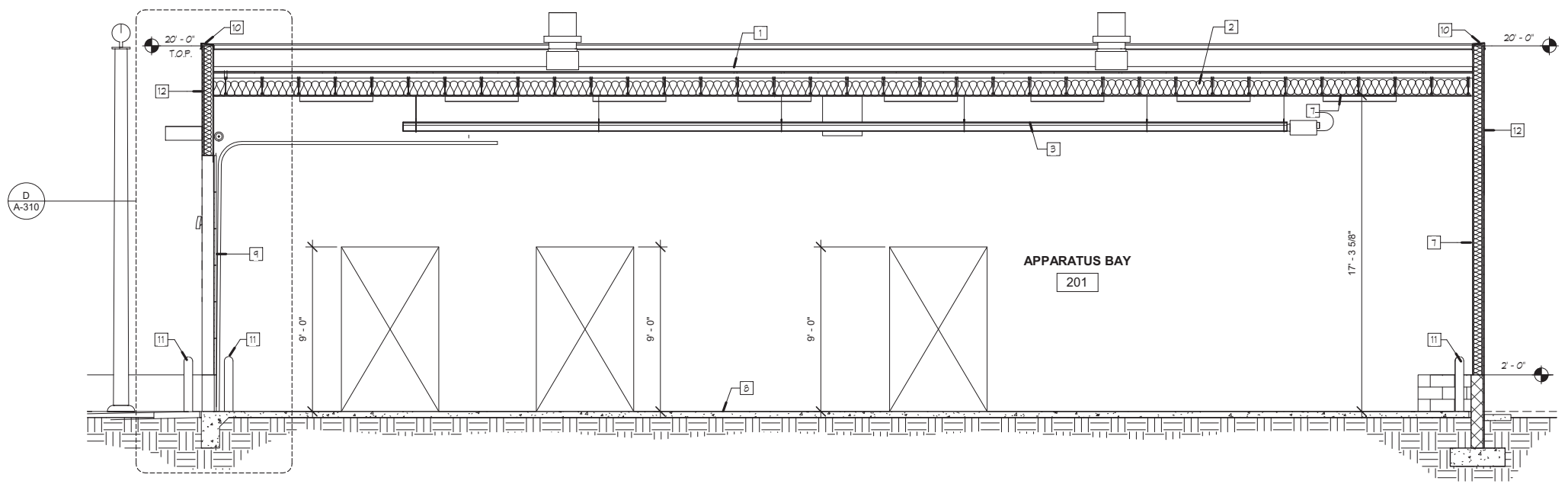
NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT
 INTENDED NUMERIC SCALES IF THIS
 BAR EQUALS ONE INCH

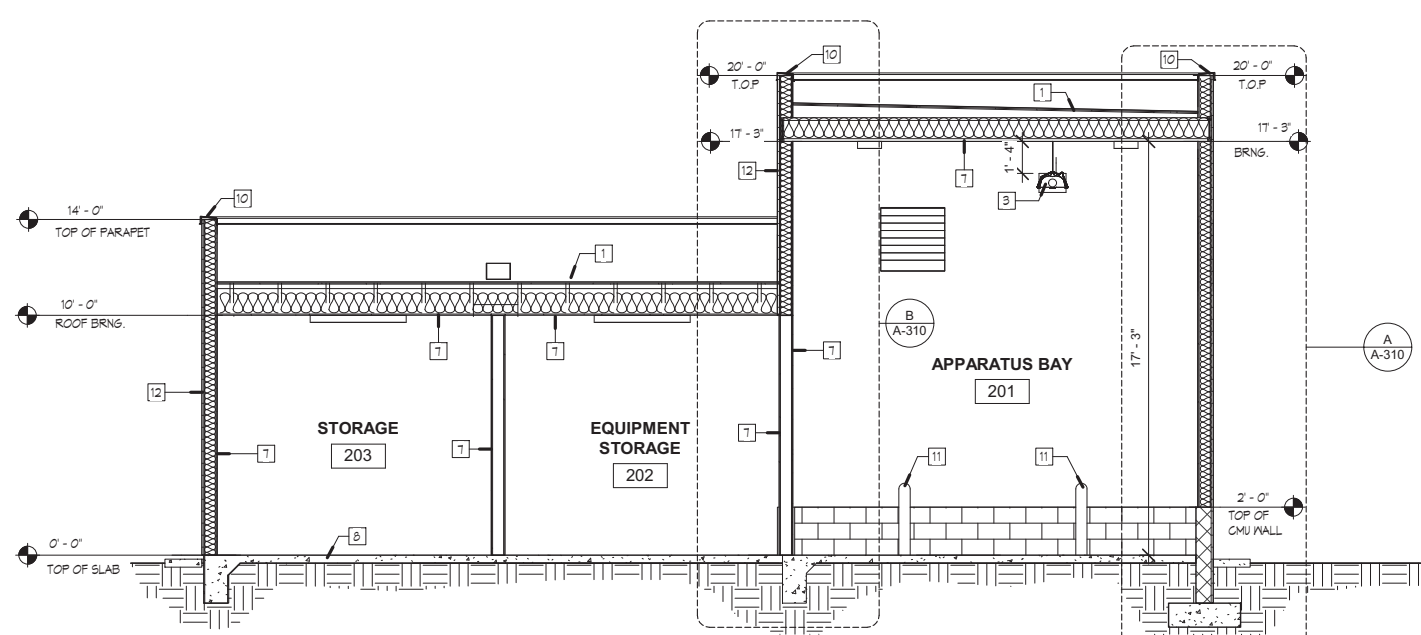


| REV NO | REV DATE | DESCRIPTION | PROJECT DATE |
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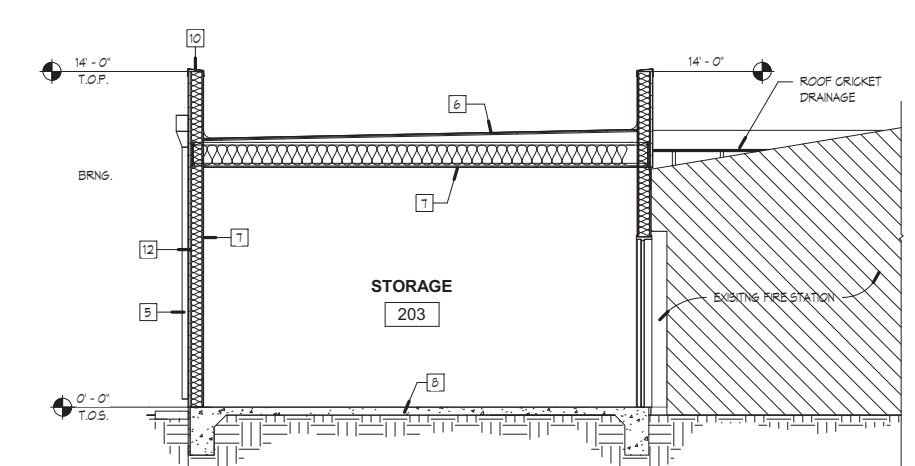
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|----------------------------|--------------------|
| PROJECT NUMBER: | SFC222-11 |
| DESIGNED BY: | JSA |
| DRAWN BY: | IWS |
| CHECKED BY: | JOP |
| PRIME DESIGN PROFESSIONAL: | JOHN Q. PATE, P.E. |
| PROJECT DATE: | MAY 2023 |



LONGITUDINAL SECTION A
 Scale: 1/4" = 1'-0"



TRANSVERSE SECTION C
 Scale: 1/4" = 1'-0"



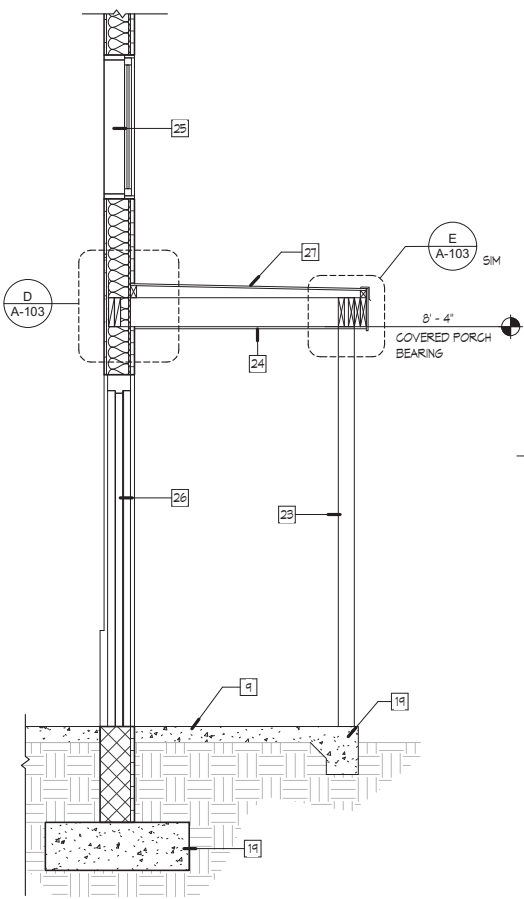
TRANSVERSE SECTION B
 Scale: 1/4" = 1'-0"

BUILDING SECTIONS

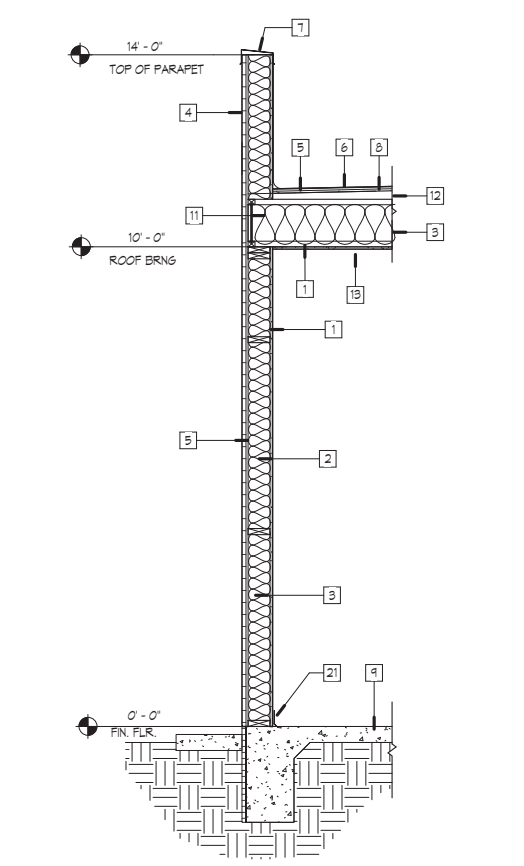
CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NEW MEXICO

A-301

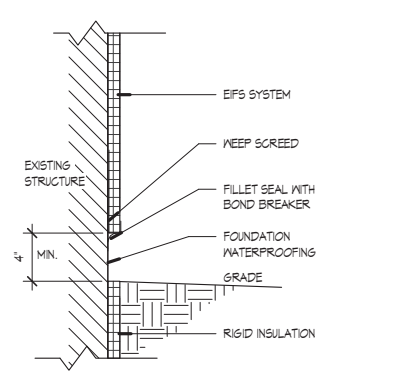
SHEET 30 of 41



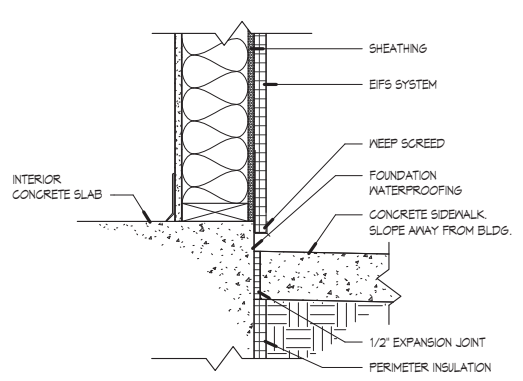
PORTAL SECTION E
Scale: 1/2" = 1'-0"



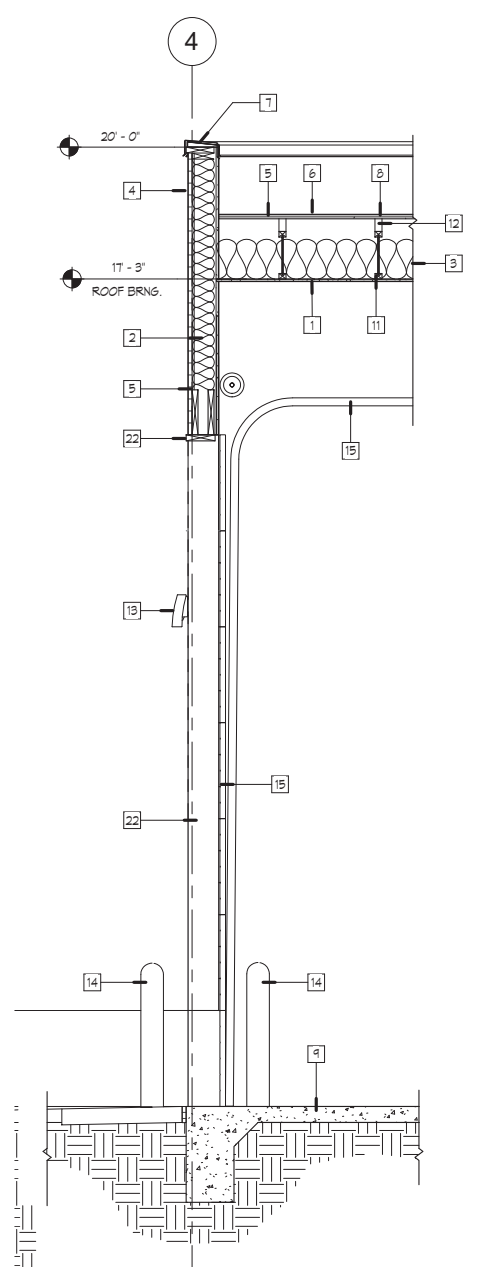
WALL SECTION F
Scale: 1/2" = 1'-0"



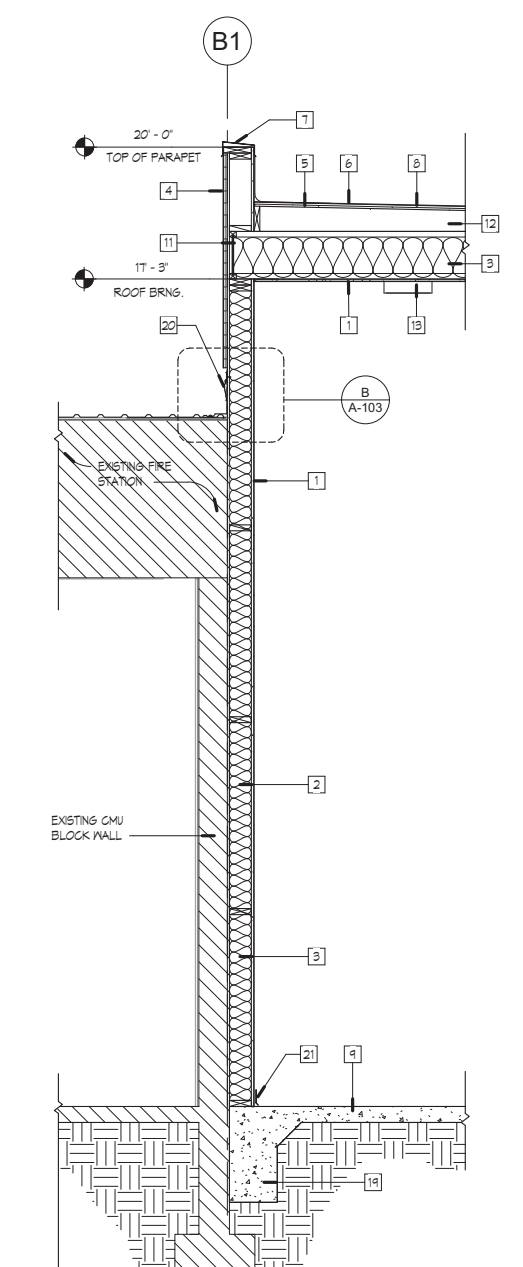
EIFS AND GRADE DETAIL 2
Scale: 1 1/2" = 1'-0"



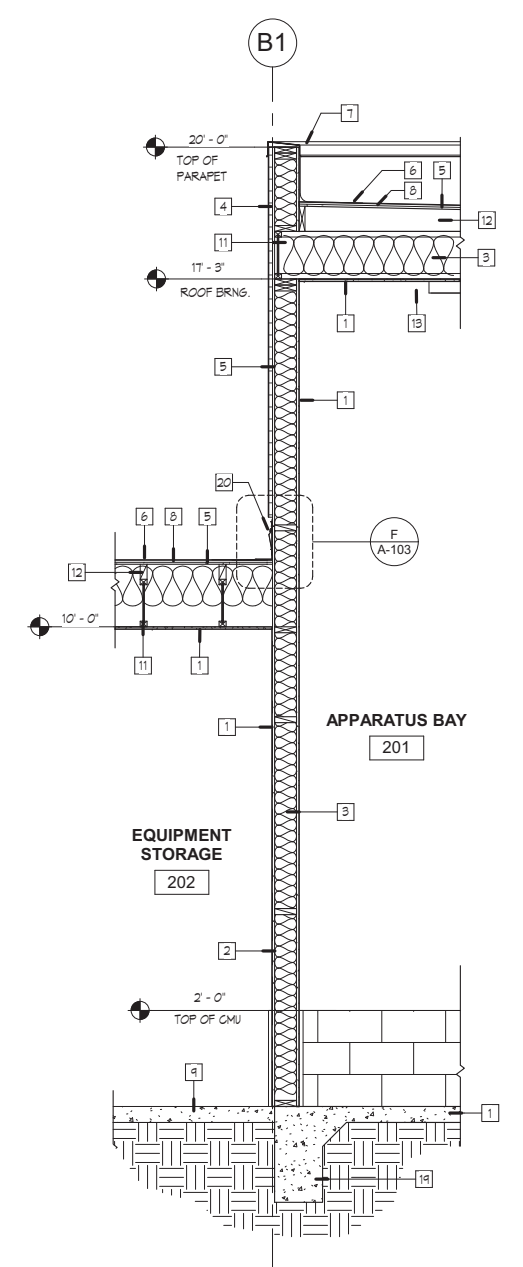
EIFS AND SIDEWALK DETAIL 1
Scale: 1 1/2" = 1'-0"



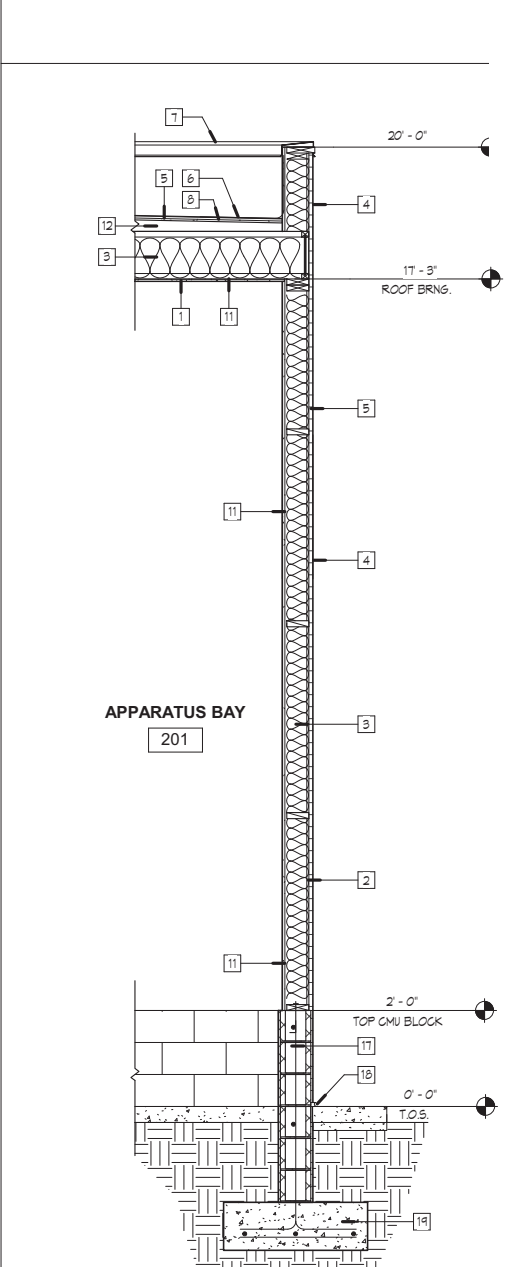
WALL SECTION D
Scale: 1/2" = 1'-0"



WALL SECTION C
Scale: 1/2" = 1'-0"



WALL SECTION B
Scale: 1/2" = 1'-0"



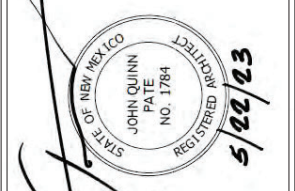
WALL SECTION A
Scale: 1/2" = 1'-0"

- KEYED NOTES**
- 5/8" TYPE 'X' GYPSUM WALL BOARD
 - 2x6 WOOD STUDS @ 24" O.C.
 - BATT INSULATION, PER G-003 FILL CAVITY NOTES
 - EXTERIOR INSULATION AND FINISH SYSTEMS
 - SHEATHING, REFER TO SHEET S-101
 - THERMOPLASTIC OLEFIN (TPO) ROOFING.
 - METAL COPING
 - RECOVERY BOARD
 - CONCRETE SLAB- REFER TO SHEET S-101
 - 18" WIDE CONCRETE APRON- REFER TO SHEET A-101
 - SHOP FABRICATED STRUCTURAL WOOD JOISTS, REFER TO S-101
 - 2X WOOD RIPPERS WITH SLOPE 1/4" PLF MINIMUM.
 - LIGHT FIXTURE, TYPICAL
 - STEEL BOLLARD.
 - OVERHEAD SECTIONAL DOOR WITH TRACK.
 - EXPANSION JOINT.
 - CMU BLOCK FRAMING CURB, REFER TO SHEET S-101.
 - SEALANT AS REQUIRED.
 - CONCRETE FOOTING REFER TO DETAIL 1/5-103.
 - SURFACE MOUNTED REGLET WITH SPRING LOCK FLASHING.
 - FLOOR BASE, REFER TO SHEET A-601.
 - 2X PRESSURE TREATED WOOD FRAME.
 - PAINTED STEEL POSTS, REFER TO SHEET S-101.
 - SOFFIT BOARD.
 - WINDOW UNIT, REFER TO SHEET A-601
 - DOOR UNIT, REFER TO SHEET A-601
 - METAL ROOF.

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NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT
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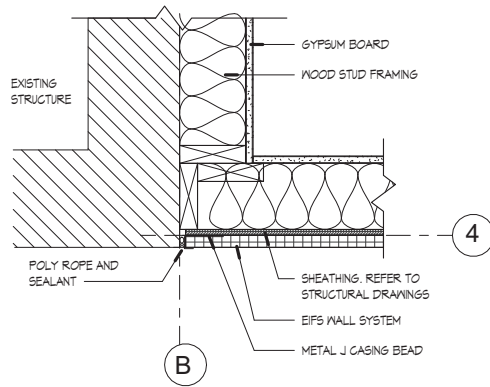


| REV NO | REV DATE | DESCRIPTION |
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PROJECT NUMBER: SFC222-11
DESIGNED BY: JSA
DRAWN BY: IWS
CHECKED BY: JOP
PRIME DESIGN PROFESSIONAL: JOHN Q. PATE, RA
PROJECT DATE: MAY 2023

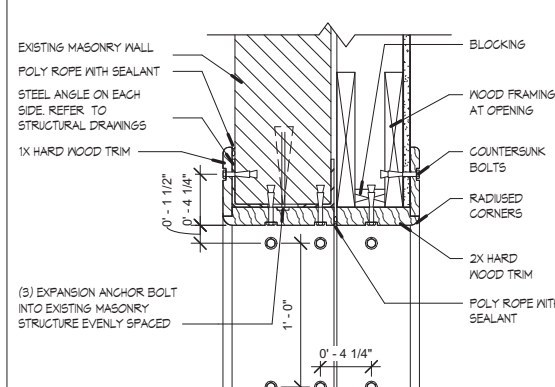
WALL SECTIONS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO



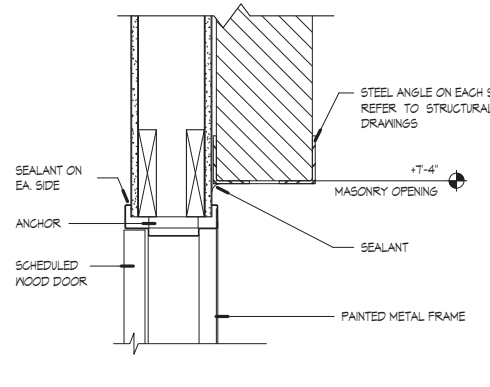
WALL ATTACHEMENT

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



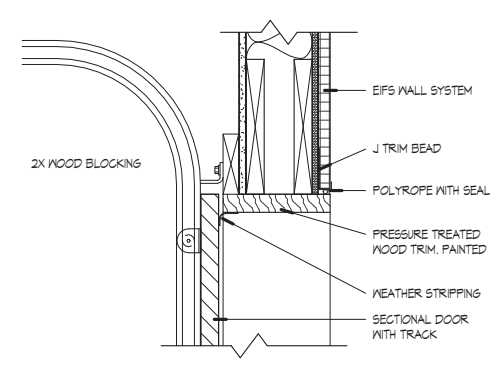
HEAD / JAMB DETAIL

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



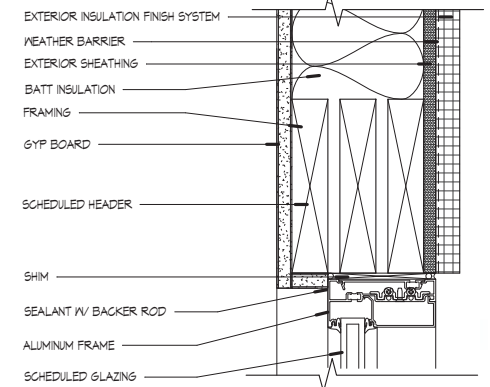
DOOR HEAD

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



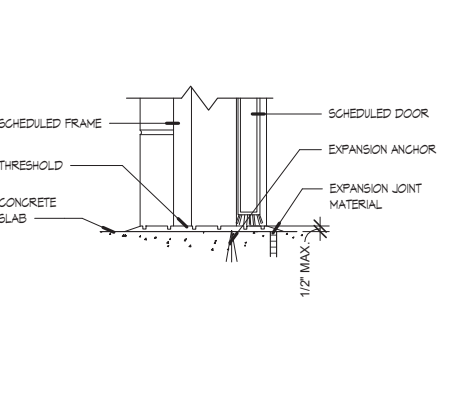
SECTIONAL DOOR HEAD

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



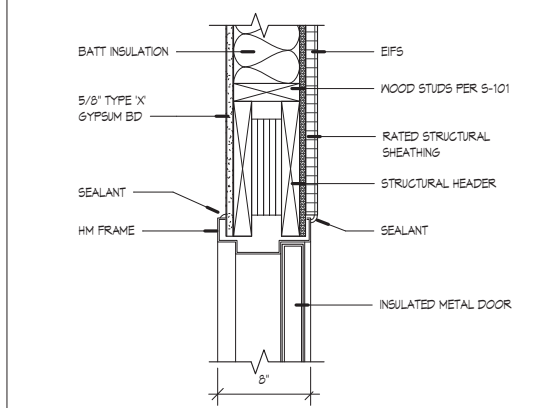
WINDOW HEAD

Scale: 3" = 1'-0"



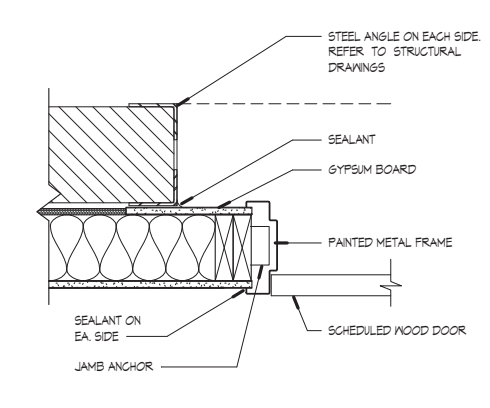
TYPICAL THRESHOLD

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



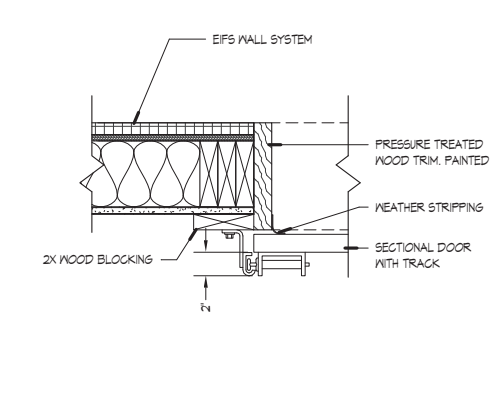
EXT. DR HEAD / JAMB

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



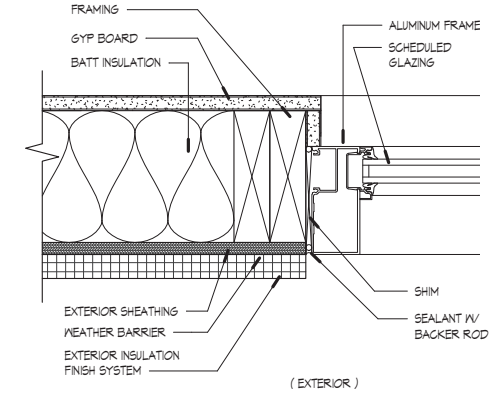
DOOR JAMB

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



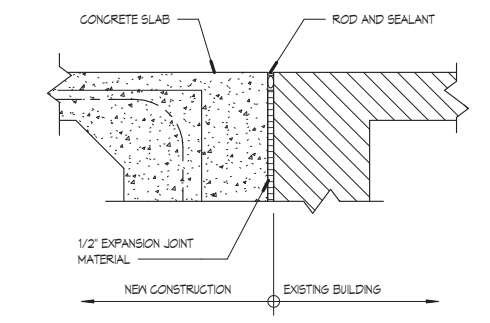
SECTIONAL DOOR JAMB

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



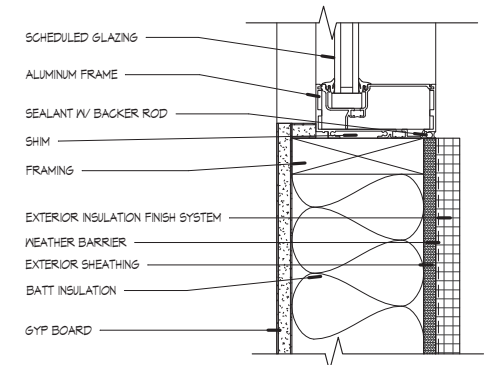
WINDOW JAMB

Scale: 3" = 1'-0"



EXPANSION JOINT DETAIL

ROOM 205 Scale: 1 1/2" = 1'-0"



WINDOW SILL

Scale: 3" = 1'-0"

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2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF
AN UNDISPUTED REQUEST FOR PAYMENT

NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT
INTERED NUMERIC SCALES IF THIS
BAR EQUALS ONE INCH



| REV NO | REV DATE | DESCRIPTION |
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|----------------------------|------------------|
| PROJECT NUMBER: | SFC222-11 |
| DESIGNED BY: | JSA |
| DRAWN BY: | IWS |
| CHECKED BY: | JOP |
| PRIME DESIGN PROFESSIONAL: | JOHN Q. PATE, RA |
| PROJECT DATE: | MAY 2023 |

DOOR AND WINDOW DETAILS

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

A-501

SHEET 32 of 41

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NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT
INTENDED NUMERIC SCALES IF THIS
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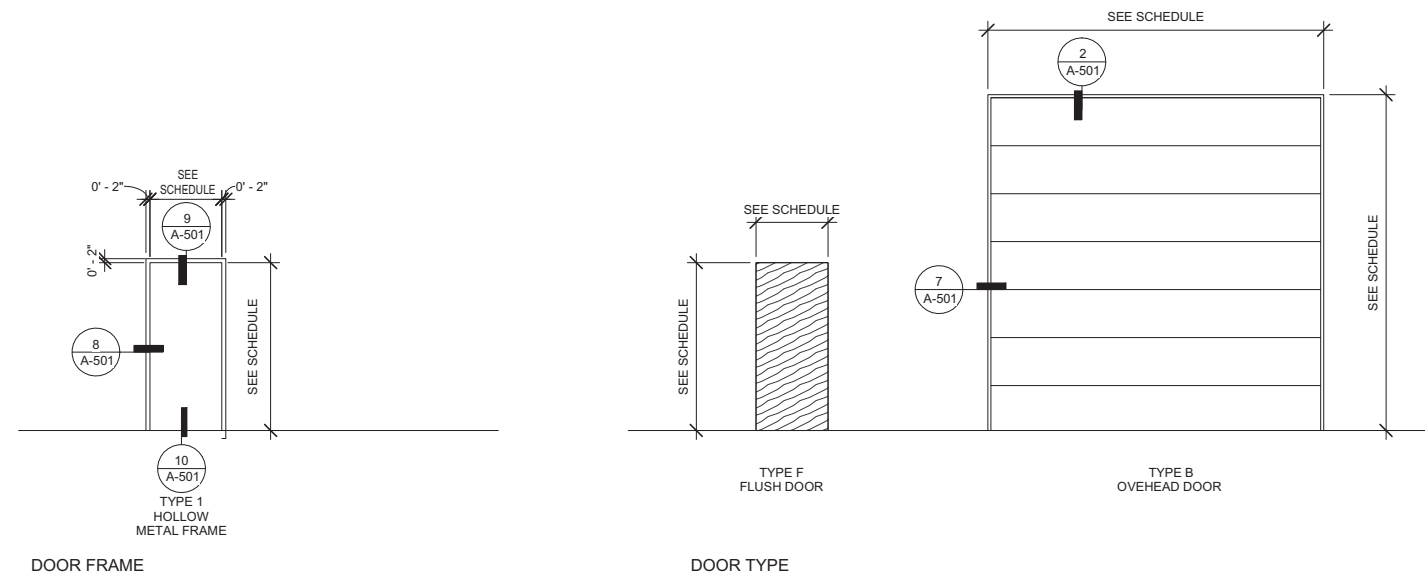


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| REV NO | REV DATE | DESCRIPTION | SFC222-11 |
| PROJECT NUMBER: | DESIGNED BY: | DRAWN BY: | CHECKED BY: |
| JSA | IMS | JOP | RA |
| PRIME DESIGN PROFESSIONAL: JOHN Q. PATE, RA | PROJECT DATE: MAY 2023 | | |

| DOOR SCHEDULE | | | | | | | | | | | |
|---------------|------|----------|----------|-------------|-------------|-------------------------|--------|-----------------------|---------|---------|---|
| Mark | Type | Door | | | | Hardware | Frame | | | | Comments |
| | | Width | Height | Thickness | Material | | Type | Material | Jamb | Head | |
| 201 | F | 3' - 0" | 7' - 0" | 0' - 1 3/4" | HM | REFER TO SPECIFICATIONS | TYPE 1 | HM | 9/A-501 | 9/A-501 | |
| 201A | G | 14' - 2" | 14' - 0" | 0' - 1 3/8" | METAL PANEL | REFER TO SPECIFICATIONS | | PRESSURE TREATED WOOD | 7/A-501 | 2/A-501 | SECTIONAL OVERHEAD DOOR. WOOD FRAME PAINTED |
| 202 | F | 3' - 6" | 7' - 0" | 0' - 1 3/4" | SOLID CORE | REFER TO SPECIFICATIONS | TYPE 1 | HM | 8/A-501 | 3/A-501 | |
| 203 | F | 3' - 6" | 7' - 0" | 0' - 1 3/4" | SOLID CORE | REFER TO SPECIFICATIONS | TYPE 1 | HM | 8/A-501 | 3/A-501 | |

| STOREFRONT SCHEDULE | | | | | | | | | | |
|---------------------|---------|---------|-----------------|----------|----------------|---------|---------|----------|-------------|--|
| Type Mark | R.O. | | Family and Type | Material | Finish | Head | Jamb | Sill | Head Height | Comments |
| | Width | Height | | | | | | | | |
| A | 5' - 0" | 3' - 0" | Fixed: 60"x 36" | ALUMINUM | CLEAR ANODIZED | 1/A-501 | 6/A-501 | 11/A-601 | 12' - 0" | STOREFRONT SYSTEM WITH INSULATED GLAZING |

Grand total: 5



| ROOM SCHEDULE | | | | | | | |
|---------------|-------------------|---------------------|----------------|-------------|---------------------|----------------|-----------------------------|
| Room Number | Room Name | Floor Finish | Base Finish | Wall Finish | Ceiling Finish | Ceiling Height | Comments |
| 201 | APPARATUS BAY | CONCRETE SEALER | 4" RUBBER BASE | PAINT | PAINT | 17' - 3" | |
| 202 | EQUIPMENT STORAGE | CONCRETE SEALER | 4" RUBBER BASE | PAINT | PAINT | 10' - 0" | |
| 203 | STORAGE | CONCRETE SEALER | 4" RUBBER BASE | PAINT | PAINT | 10' - 0" | |
| 204 | LOCKERS | TOUCH UP AND REPAIR | 4" RUBBER BASE | PAINT | TOUCH UP AND REPAIR | | EXISTING CEILING IS SLOPED. |

DOOR AND WINDOW SCHEDULE

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

A-601

SHEET 33 of 41

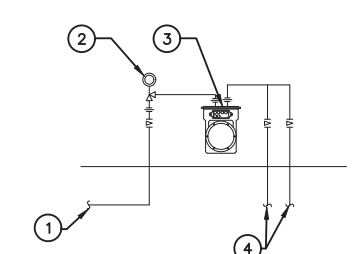
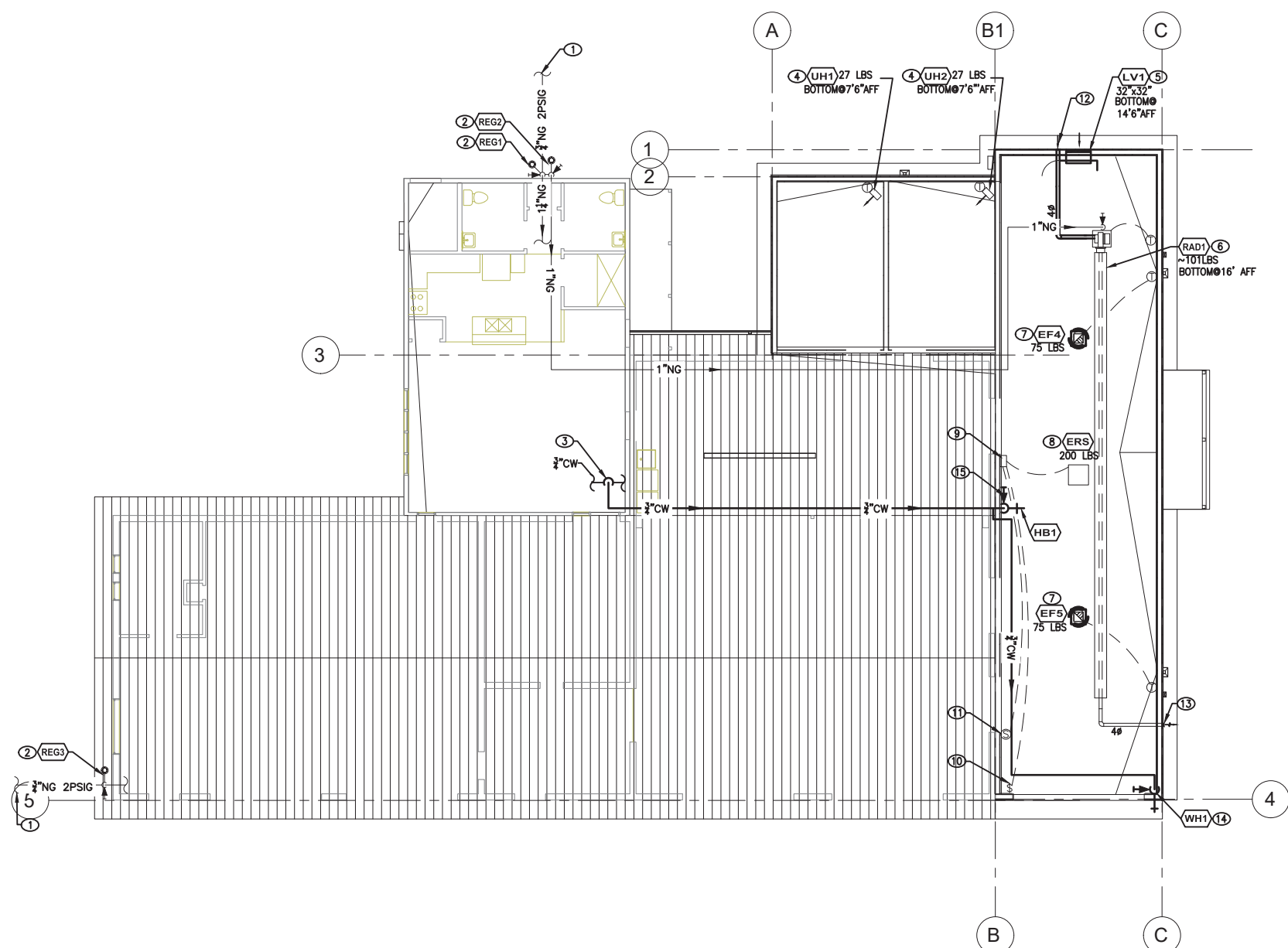
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NUMERIC SCALE CONFIRMATION
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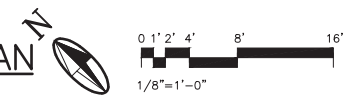


KEYED NOTES

1. EXISTING NATURAL GAS PIPING TO EXISTING GAS METER LOCATED ON SITE. SEE DETAIL BELOW FOR NEW WORK REQUIREMENTS AT EXISTING GAS METER.
2. PROVIDE AND INSTALL NATURAL GAS REGULATOR. SIZE AS INDICATED ON EQUIPMENT SCHEDULE.
3. PROVIDE AND INSTALL COLD WATER CONNECTION TO EXISTING COLD WATER. SIZE AS INDICATED ON PLANS.
4. PROVIDE AND INSTALL UNIT HEATER. SIZE AS INDICATED ON EQUIPMENT SCHEDULE.
5. PROVIDE AND INSTALL LOUVER WITH MOTORIZED DAMPER. ELECTRICAL CONTRACTOR TO INTERLOCK MOTORIZED DAMPER WITH EXHAUST FANS EF-4 AND EF-5.
6. PROVIDE AND INSTALL RADIANT TUBE HEATER. THERMOSTAT FURNISHED WITH HEATER AND WIRED BY ELECTRICAL CONTRACTOR.
7. PROVIDE AND INSTALL ROOF EXHAUST FAN. THERMOSTAT AND WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
8. PROVIDE AND INSTALL EXHAUST REMOVAL SYSTEM. 120V POWER REQUIRED AT THIS LOCATION FURNISHED BY ELECTRICAL.
9. CONTROL PANEL FURNISHED WITH EXHAUST REMOVAL SYSTEM. 120V POWER REQUIRED AT THIS LOCATION FURNISHED BY ELECTRICAL.
10. DOOR SWITCH FURNISHED WITH EXHAUST REMOVAL SYSTEM. LOW VOLTAGE POWER REQUIRED FROM CONTROL PANEL. LOW VOLTAGE WIRING AND CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL.
11. PHOTO EYE FURNISHED WITH EXHAUST REMOVAL SYSTEM. LOW VOLTAGE POWER REQUIRED FROM CONTROL PANEL. LOW VOLTAGE WIRING AND CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL.
12. 4" COMBUSTION AIR INTAKE THRU WALL.
13. 4" VENT EXHAUST THRU WALL.
14. WALL HYDRANT AT 18" ABOVE FINISHED FLOOR.
15. BALL VALVE IN PIPING DROP. TYPICAL OF THIS SYMBOL.



MECHANICAL HVAC AND PLUMBING PLAN
 SCALE: 1/8"=1'-0"



1. EXISTING 3/4" NATURAL GAS PIPING SERVICE TO REMAIN.
 2. COORDINATE WITH LOCAL GAS UTILITY COMPANY INSTALLATION OF NEW NATURAL GAS REGULATOR AND CONFORM TO THEIR REQUIREMENTS. NEW REGULATOR SIZED BASED ON 20 PSIG INLET, 2 PSIG OUTLET, AND 525 CFH.
 3. EXISTING GAS METER TO REMAIN.
 4. EXISTING 3/4" NG 2 PSIG GAS SERVICE TO BUILDING TO REMAIN.
- A** EXISTING GAS METER DETAIL
 SCALE = NONE

MECHANICAL HVAC AND PLUMBING PLAN

CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NEW MEXICO

PLOT DATE: 5/16/2023 7:53 PM
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| EXHAUST REMOVAL SYSTEM | |
|------------------------|---|
| ERS | <p>EXHAUST REMOVAL SYSTEM: EXHAUST REMOVAL SYSTEM COMPLETE WITH CONTINENTAL CENTRIFUGAL BLOWER AND FAN HOUSING, ALL WELDED STEEL CABINET WITH GRAY POWDER COAT FINISH AND TWO HINGED DOORS, STAGE-1 PREFILTER, 3 PLY POLYESTER CONSTRUCTION, STAGE-2 MAIN FILTER OF HEPA DESIGN, GAS-PHASE EXTRACTOR, FILTER GAUGE, CONTROL PANEL AND ACTIVATION PACKAGE WITH PHOTO ELECTRIC EYES AND MAGNETIC DOOR SWITCHES.</p> <p>DESCRIPTION AND MANUFACTURE:</p> <p>AIR VAC-911 EXHAUST REMOVAL SYSTEM ---115V/1PH</p> <p>AIR VAC-911 FILTER PACK (4 STAGE FILTER PACK)</p> <p>AIR VAC-911 FILTER GAUGE</p> <p>UL 508A CERTIFIED CONTROL PANEL - AVEC-6C/T2</p> <p>ACTIVATION PACKAGE - PB030TK 200' PHOTO EYE</p> <p>TRACK MOUNTED DOOR SWITCH</p> <p>PRE FILTERS (12 PER BOX)</p> <p>AIRVAC 911 SPECIFICATIONS</p> <p>MODEL: AIRVAC 911 VERTICAL AIR FLOW DESIGN CEILING HUNG RECIRCULATING REMOVAL SYSTEM MANUFACTURED BY: AIR VACUUM CORPORATION.</p> <p>FILTRATION: 4 STAGE FILTER PACK. ALL FILTERS ARE INDUSTRY STANDARD SIZED, UL TESTED AND CERTIFIED.</p> <p>PRE-FILTER (STAGE 1): 24" x 24" x 1". 3 PLY POLYESTER CONSTRUCTION. TWO LAYERS OF 1/8" DUAL DENIER POLY FIBERS WITH FINAL DUST CATCHING ADHESIVE LAYER. SELF-SEALING FILTER WITH PRE-INSTALLED INTERNAL HEAVY GAGE WIRE FRAME. PERFORMANCE BASED ON ASHRAE 52.1-1992. CLASSIFIED AS A UL CLASS 2 FILTER, ACCORDING TO UL STANDARD 900 AND CAN 4-S111.</p> <p>MAIN MEDIA FILTER (STAGE 2): 24"x24"x6". HEPA MAX 3000 HIGH EFFICIENCY PARTICULATE AIR FILTER. DOP TESTED WITH 0.3 MICROMETER SIZED PARTICLES TO HAVE A MINIMUM EFFICIENCY OF UP TO 95% AND EXCEEDS THE MAXIMUM EFFICIENCY OF 98% ASHRAE 52.1 TESTED FILTERS.</p> <p>GAS PHASE EXTRACTOR (STAGE 3&4): ONE 24"x24"x4", MULTISORB 3000 BLENDED GAS PHASE EXTRACTOR. 80% RESPIRATOR GRADE ACTIVATED CARBON GRANUALS EFFECT FOR REMOVAL OF HIGH WEIGHT MOLECULAR GASES WITH DIESEL EXHAUST.</p> <p>CABINET CONSTRUCTION: 18&16 GAUGE ALL WELDED STEEL CONSTRUCTION. 25"x26"x28" CUSTOM GRAY PODER COAT PAINT FINISH. TWO HINGED ACCESS PANELS: ONE, TO THE FILTER BANK AND THE OTHER TO THE MOTOR/BLOWER UNIT. FURNISH WITH DWYER MAGNEHLIC STATIC PRESSURE GAGE.</p> <p>ELECTRICAL: 3/4 HP 1725 RPM, 115 VOLT SINGLE PHASE ELECTRICAL MOTOR. 13.6 FLA, RESILIENT MOUNT, AUTOMATIC THERMAL PROTECTION.</p> <p>BLOWER: CONTINENTAL CENTRIFUGAL IMPELLER AND FUNNEL CONE. NON METAL & CHEMICALLY RESISTANT.</p> <p>AVEC CONTROL PANEL: 120V POWER REQUIRED. AUTOMATIC VEHICLE EXHAUST CONTROL. MULTI CIRCUIT AUTOMATIC RESET TIMER CONTROL. TWO CIRCUIT CONFIGURATIONS RATED AT 20 AMPS. ENCLOSED NEMA 4 RATED ENCLOSURE., MANUAL THREE POSTION SWITCH, WITH AUTO-OFF-RUN OVERRIDE.</p> <p>AUTOMATIC ACTIVATION SWITCHES: PHOTO ELECTRIC EYES ACTIVATE SYSTEM UPON VEHICLE MOVEMENT AND MAGNETIC DOOR SWITCH.</p> |

| PLUMBING SCHEDULE | |
|-------------------|--|
| HB1 | HOSE BIB: COLD WATER SERVICE, MANUALLY OPERATED WHEEL HANDLE, STANDARD CHROME FINISH, ANTI-SIPHON, VACUUM BREAKER, HORIZONTAL MOUNT, ASSE 1011 APPROVED, 3/8" INLET, 3/4" MALE HOSE NOZZLE OULTE. MFG: WOODFORD MODEL 24 C INLET. |
| WH1 | WALL HYDRANT: 7.5" MAXIMUM LENGTH, A.S.S.E. 1019-B CERTIFIED EXPOSED TYPE, SELF DRAINING, NON FREEZE LOW LEAD, WALL HYDRANT WITH A.S.S.E. 1011 APPROVED ANTI-SIPHON AND VANDAL RESISTANT INTEGRAL VACUUM BREAKER WITH 3/4" (19) MALE HOSE CONNECTION. HYDRANT ASSEMBLY COMPLETE WITH NEOPRENE PLUNGER TO CONTROL BOTH THE FLOW AND DRAIN FUNCTIONS, HARDENED BRONZE OPERATING STEM, DRAIN PORT UNDER THE HEXAGON NUT, HEAVY DUTY BRASS CASING, 360 DEGREE SWIVEL INLET CONNECTION, HEAVY DUTY CHROME PLATED BRONZE HEAD CASTING AND POLISHED CHROME PLATED FACE PLATE. OPERATING KEY TO BE FURNISHED WITH EACH HYDRANT, 3/4" INLET AND 3/4" OUTLET. MFG: MIFAB MYH-10, NO EXCEPTION. |

| ROOF EXHAUST FAN SCHEDULE | | | | | | | | | | | |
|---|-------------------|-------|-------------|-------------|-------------|------------|-----|-----|-------|--------------|----------------------|
| ROOF EXHAUST FAN: BELT DRIVE, CENTRIFUGAL ROOF EXHAUST FAN, ALUMINUM HOUSING-BACKWARD INCLINED ALUMINUM WHEEL, ALUMINUM BIRD SCREEN, BACKDRAFT DAMPER, BALL BEARING MOTOR, MOTOR ISOLATED ON SHOCK MOUNTS, CORROSION RESISTANT FASTENERS, HIGH EFFICIENCY MOTOR, NEMA 4 TOGGLE SWITCH. UNIT SHALL BE CAPABLE OF EXHAUSTING THE CAPACITIES SCHEDULED BELOW. SIZED FOR 6,000 FEET ELEVATION. MANUFACTURED BY GREENHECK OR EQUIVALENT. | | | | | | | | | | | |
| SYMBOL | GREENHECK MODEL # | CFM | ESP IN W.C. | DAMPER SIZE | | ELECTRICAL | | | SONES | WEIGHT (LBS) | REMARKS |
| | | | | WIDTH (IN) | HEIGHT (IN) | V/PH/HZ | FLA | HP | | | |
| EF4 THRU EF5 | GB-121-3 | 1,500 | 0.25 | 12 | 12 | 115/1/60 | 7.2 | 1/2 | 13.2 | 75 | FURNISH W/ ROOF CURB |

| LOUVER SCHEDULE | | | | | | | |
|--|-------------------|------------|-------------|------------------|----------------|-------------------|---|
| LOUVER: 4" DEEP FRAME, 35" BLADE DESIGN, EXTRUDED ALUMINUM, DRAIN GUTTERS IN THE HEAD MEMBER, HORIZONTAL BLADES, INTERNAL BIRDSCREEN TO MATCH LOUVER. ACCESSORY DAMPERS AS LISTED IN REMARKS, LOUVERS SHALL HAVE STANDARD FINISH. UNIT SHALL BE CAPABLE OF CAPACITIES LISTED BELOW. SITE ELEVATION 6,000 FEET. MFG: GREENHECK ESD-435 OR EQUIVALENT. | | | | | | | |
| SYMBOL | GREENHECK MODEL # | WIDTH (IN) | HEIGHT (IN) | FREE AREA (FT^2) | VELOCITY (FPM) | DESIGN FLOW (CFM) | REMARKS |
| LV1 | ESD-435 | 32 | 32 | 3.55 | 845 | 3000 | INTAKE. FURNISH WITH STANDARD ENAMEL COLOR TO BE SELECTED BY ARCHITECT. FURNISH WITH 120V MOTORIZED DAMPER. |

| RADIANT TUBE HEATER INDOOR | | | | | | | | | | |
|--|------------------|----------|---------------|--------------------------|-----------------|-------|-------|---------------------|-------------------------------------|--|
| RADIANT TUBE HEATER INDOORS: SINGLE STAGE, LOW INTENSITY, NATURAL GAS FIRED, INFRARED RADIANT TUBULAR HEATING SYSTEM WITH POWER BURNER HOUSED IN A STANDARD STEEL BURNER CONTROL FIRING BOX INTO A 4" DIAMETER COMBUSTION CHAMBER TUBE DESIGNED FOR HORIZONTAL SUSPENSION. UNITS SHALL BE EQUIPPED FOR USE WITH NATURAL GAS AND ORFICED FOR INSTALLATION AT 6,000 FEET ABOVE SEA LEVEL. THE UNIT SHALL INCLUDE A SINGLE STAGE GAS VALE AND SINGLE SPEED COMBUSTION FAN. THE BURNER CONTROL SYSTEM SHALL HAVE A 24 VOLT TRANSFORMER, MULTI-TRY DIRECT SPARK IGNITION WITH SOFT LOCKOUT, LED DIAGNOSTIC LIGHT, POWER ON LIGHT, BURNER ON LIGHT, POWER BURNER WITH PRE PURGE AND POST PURGE, AND A DIFFERENTIAL PRESSURE SWITCH. THE TUBULAR SYSTEM SHALL BE STANDARD CALCOAT COMBUSTION CHAMBER AND STEEL TUBES. SYSTEM SHALL INCLUDE STANDARD OVERLAPPING REFLECTORS AND END COVERS. FURNISH UNITS WITH 50' GALVANIZED CHAIN, S HOOKS, AND GALVANIZED SUSPENSION TURNBUCKLE KITS. FURNISH UNIT WITH VENT THRU ROOF CAP, COMBUSTION AIR INLET HOOD. UNIT MANUFACTURED FOR INDOOR ENVIRONMENT. MFG: REZNOR OR EQUIVALENT. | | | | | | | | | | |
| SYMBOL | REZNOR MODEL NO. | LOCATION | -WEIGHT (LBS) | NOMINAL TUBE LENGTH (FT) | ELECTRICAL DATA | | | HEATING PERFORMANCE | | REMARKS |
| | | | | | VOLT | PHASE | HERTZ | SL INPUT (MBH) | OUTPUT AT 6000 FEET ELEVATION (MBH) | |
| RAD | VP S N 125 A | BAY | 90 | 50 | 115 | 1 | 60 | 125 | 77.9 | 50 FT STANDARD STEEL TUBE PACKAGE, BURNER INSERT, TURBULATOR, COUPLERS, FURNISH WITH TSTAT |

| UNIT HEATER SCHEDULE | | | | | | | | | | | | |
|--|---------|--------------|-----------------|-----------------|-------|-------|------|-------|---------------------|--------|--------|---|
| UNIT HEATER: HORIZONTAL AIR DELIVERY ELECTRIC UNIT HEATER, STEEL CASING OF THE CAPACITY AND VOLTAGE LISTED BELOW. UNITS SHALL BE UL AND NEC LISTED FOR SAFE OPERATION CONSTRUCTION AND PERFORMANCE. CONTROL COMPARTMENT SHALL SAFELY ENCLOSE POWER AND TERMINAL BLOCKS, INCLUDE SAFETY FAN GUARD OF HEAVY GAUGE STEEL. MOTOR AND FAN SHALL BE TOTALLY ENCLOSED WITH AUTOMATIC RESETTING AND THERMAL OVERLOAD PROTECTION, FURNISH UNIT WITH MOUNTED UNIT THERMOSTAT. FURNISH WITH LOW VOLTAGE CONTROL TRANSFORMER AND CONTACTOR. MANUFACTURED BY QMARK OR EQUIVALENT. | | | | | | | | | | | | |
| SYMBOL | QMARK. | WEIGHT (LBS) | SUPPLY FAN DATA | ELECTRICAL DATA | | | | | HEATING PERFORMANCE | | | REMARKS |
| | | | CFM | VOLT | PHASE | HERTZ | AMPS | HP | KW | EAT °F | LAT °F | |
| UH1 UH2 | MUH0321 | 27 | 350 | 240 | 1 | 60 | 12.5 | 1/100 | 3 | 55 | 82 | FURNISH T-STAT THAT MOUNTS ON UN IT. FURNISH WITH WALL MOUNTING BRACKET |

| NATURAL GAS REGULATORS | | | | | | | |
|--|----------------|------------|-------------|------------|----------------|-----|------------------|
| NATURAL GAS REGULATORS: DESIGNED FOR NATURAL GAS SERVICE, BASIC REGULATOR WITH FULL CAPACITY INTERNAL RELIEF WITH 3/8" OR 1" VENTS, CAPACITIES AS LISTED BELOW. MFG: ELSTER OR EQUIVALENT. | | | | | | | |
| SYMBOL | ELSTER MODEL # | INLET (IN) | OUTLET (IN) | INLET PSIG | OUTLET (IN WC) | CFH | REMARKS |
| REG1 | 1800B2 | 0.75 | 0.75 | 2.0 | 10 | 300 | FULL PORT RELIEF |
| REG2 | 1800B2 | 0.75 | 0.75 | 2.0 | 10 | 125 | FULL PORT RELIEF |
| REG3 | 1800B2 | 0.75 | 0.75 | 2.0 | 10 | 100 | FULL PORT RELIEF |

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MAY-22-2023

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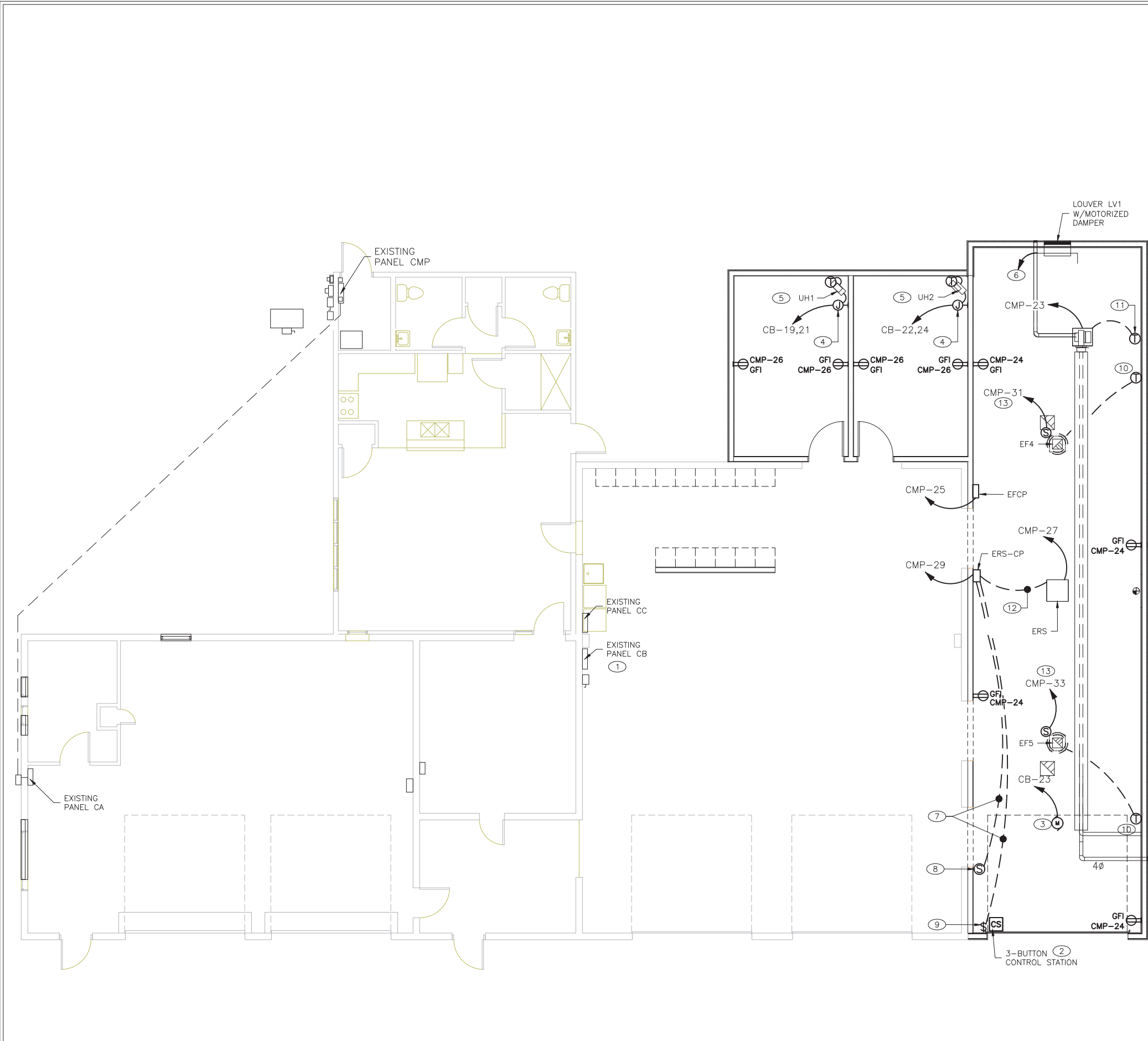
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|----------------------------|-------------|
| PROJECT NUMBER: | SFC183-11 |
| DESIGNED BY: | PMR |
| DRAWN BY: | PMR |
| CHECKED BY: | PMR |
| PRIME DESIGN PROFESSIONAL: | FULL NAME |
| PROJECT DATE: | APRIL, 2022 |

HVAC AND PLUMBING SCHEDULES

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NEW MEXICO

M-601

SHEET 35 of 41



GENERAL NOTES

- EXISTING EQUIPMENT AND ELECTRICAL POWER LINES ARE IDENTIFIED BY LIGHTER PEN WEIGHT OF THE DRAWING.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER IN FULL ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRIC SAFETY CODE (NESC), AND LOCAL AND STATE SAFETY CODES.
- ALL WIRING SHALL BE COPPER, THHN/THWN INSULATION. MINIMUM CONDUCTOR SIZE SHALL BE #12.

KEYED NOTES

- SEE SHEET E-602 FOR MODIFIED PANEL SCHEDULE.
- CONNECT 3-BUTTON CONTROL STATION TO THE DOOR OPERATOR AS RECOMMENDED BY MANUFACTURER. SHOWN HERE FOR DRAFTING PURPOSES. COORDINATE EXACT LOCATION ON FIELD.
- ENTRAPMENT PROTECTION DEVICE MUST BE INSTALLED FOR THE ROLL-UP DOOR. CONNECT DEVICE TO THE OPERATOR AS RECOMMENDED BY MANUFACTURER.
- MOUNT J-BOX FOR UNIT HEATER POWER ON THE WALL ADJACENT TO THE UNIT HEATER. TYPICAL FOR ALL.
- HEATER SUPPLIED WITH INTEGRAL THERMOSTAT AND CONTROL UNIT. TYPICAL FOR ALL.
- INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN EF1 AND EF2 VIA EXHAUST FAN CONTROL PANEL EFCP. SEE SHEET E-603 FOR WIRING DIAGRAM.
- 2-CONDUCTOR/SHIELDED CABLE AS RECOMMENDED BY MANUFACTURER.
- PHOTO EYE FURNISHED WITH EXHAUST REMOVAL SYSTEM (ERS). CONNECT TO ERS-CP AS RECOMMENDED BY MANUFACTURER.
- DOOR SWITCH FURNISHED WITH ERS. CONNECT TO ERS-CP AS RECOMMENDED BY MANUFACTURER.
- CONNECT THERMOSTAT TO EXHAUST FAN AS RECOMMENDED BY MANUFACTURER.
- THERMOSTAT SUPPLIED WITH RADIANT TUBE HEATER. CONNECT AS RECOMMENDED BY MANUFACTURER.
- MAKE CONNECTION BETWEEN ERS AND ERS-CP AS RECOMMENDED BY MANUFACTURER.
- CONNECT EXHAUST FAN TO 120V POWER SUPPLY VIA EFCP. SEE SHEET E-603 FOR WIRING DIAGRAM.

MOLZENCORBIN

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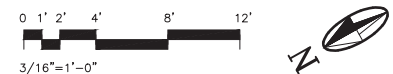
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| PROJECT NUMBER: | SFC222-11 |
| DESIGNED BY: | NW |
| DRAWN BY: | DG |
| CHECKED BY: | STEVEN K. MORROW |
| PRIME DESIGN PROFESSIONAL: | STEVEN K. MORROW |
| PROJECT DATE: | MAY 2023 |

ELECTRICAL POWER MODIFICATION PLAM

CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NM

ELECTRICAL POWER PLAN
 SCALE: 3/16"=1'-0"



DATE: 5/18/2023 4:45 PM
 FILE: 5/18/2023_4533.PLT
 PLOT: COUNTY: 05222-11 CHIMAYO FIRE RESTAURANT (E-102)

| LIGHT TYPE | DESCRIPTION | CAT. # | MFG | VOLTAGE | WATTAGE | LUMENS | Q-TY |
|------------|--|-------------------------------|-------------------|----------|---------|--------|------|
| A | LCL LED LENSED UTILITY CHANNEL, HIGH LUMEN INDUSTRIAL 4 FT LED STRIPLIGHT WITH FROSTED LINEAR PRISMED LENS. | LCL4-40HL-EU | COLUMBIA LIGHTING | 120-277V | 52 | 6494 | 12 |
| A1 | LCL LED LENSED UTILITY CHANNEL, HIGH LUMEN INDUSTRIAL 4 FT LED STRIPLIGHT WITH FROSTED LINEAR PRISMED LENS, EMERGENCY BATTERY PACK | LCL4-40HL-EU-ELL14 | COLUMBIA LIGHTING | 120-277V | 52 | 6494 | 4 |
| B | LCL LED LENSED UTILITY CHANNEL, MEDIUM LUMEN INDUSTRIAL 4 FT LED STRIPLIGHT WITH FROSTED LINEAR PRISMED LENS | LCL-40ML-EU | COLUMBIA LIGHTING | 120-277V | 42 | 5411 | 4 |
| C | LOW PROFILE EXTERIOR WALL PACK WITH BATTERY BACKUP AND MOTION SENSOR OPTIONS. BRONZE FINISH. | WL24-3-3K-BR-BB/TL-SCES-L2-BR | TRACELITE | 120 | 40 | 4389 | 3 |
| EM | WHITE THERMOPLASTIC LED EMERGENCY LIGHT. TEST BUTTON. | ELM-LED-812-W | ELITE | 120 | 10 | - | 2 |
| X | WHITE THERMOPLASTIC LED EXIT SIGN. RED LETTERS. WHITE HOUSING. | ELX-503-RW | ELITE | 120 | 2 | - | 1 |

GENERAL NOTES

- EXISTING EQUIPMENT AND ELECTRICAL POWER LINES ARE IDENTIFIED BY LIGHTER PEN WEIGHT OF THE DRAWING.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER IN FULL ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRIC SAFETY CODE (NESC), AND LOCAL AND STATE SAFETY CODES.
- ALL WIRING SHALL BE COPPER, THHN/THWN INSULATION. MINIMUM CONDUCTOR SIZE SHALL BE #12.
- SEE SHEET E-602 FOR POWER PANEL SCHEDULES.

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

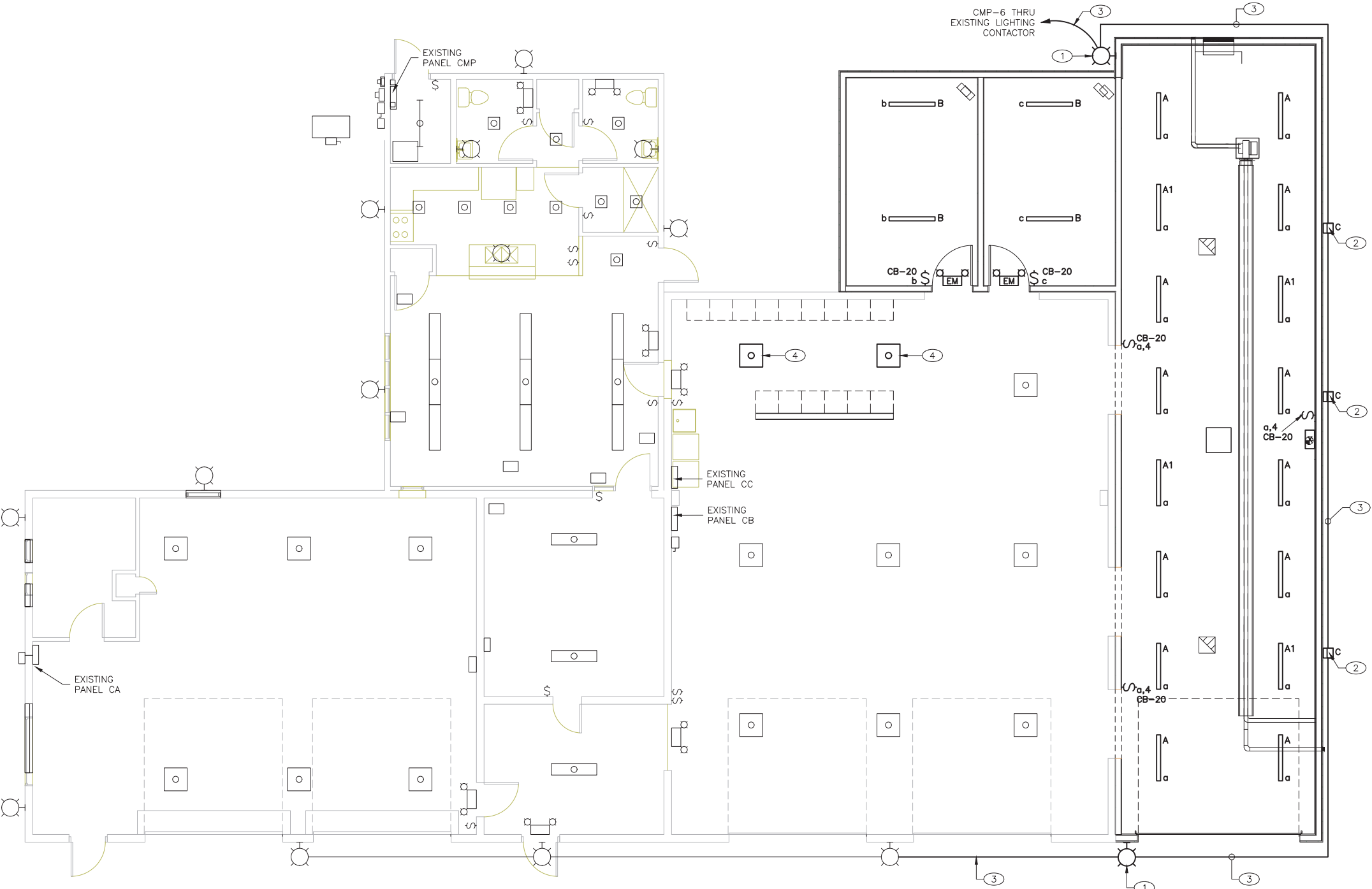
NUMERIC SCALE CONFIRMATION

DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES
IF THIS BAR EQUALS ONE INCH



KEYED NOTES

- MOUNT RELOCATED EXISTING LIGHTING FIXTURE AT THE LEVEL TO MATCH THE EXISTING LIGHT LEVEL.
- INSTALL NEW LIGHTING FIXTURE; CONNECT TO POWER SOURCE IN SERIES WITH EXISTING LIGHTING THRU EXISTING LIGHTING CONTACTOR.
- INSTALL 3/4" CONDUIT WITH 3 #12 CONDUCTORS.
- MOUNT RELOCATED LIGHT FIXTURE TO THE MIDDLE OF THE SPACE. RE-CONNECT TO EXISTING POWER CIRCUIT.



ELECTRICAL LIGHTING PLAN
SCALE: 3/16"=1'-0"



| REV NO | REV DATE | DESCRIPTION |
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| DESIGNED BY: | NW |
| DRAWN BY: | NW |
| CHECKED BY: | DG |
| PRIME DESIGN PROFESSIONAL: | STEVEN K. MORROW |
| PROJECT DATE: | MAY 2023 |

ELECTRICAL LIGHTING PLAN

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NM

FILE: 5/18/2023 4:45 PM
 DATE: 5/18/2023 3:39 PM
 A: E: COUNTY: 04222-11 CHIMAYO FIRE RESIDENTIAL: EBF-103

MOLZENCORBIN

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NUMERIC SCALE CONFIRMATION
 DRAWINGS ARE DEPICTED AT INTENDED
 NUMERIC SCALES
 IF THIS BAR EQUALS ONE INCH



| POWER CONDUIT SCHEDULE | |
|------------------------|--------------------------------|
| NAME | COPPER WIRE |
| 20AS | 3/4"C, #12H, #12N, #12G |
| 20A2 | 3/4"C, 2 #12H, #12G |
| 20MC | MC CABLE, 2 #12, #12 G |
| 20MC2 | MC CABLE, 4 #12, #12 G |
| 30AS | 3/4"C, #10H, #10N, #10G |
| 30A2 | 3/4"C, 3 - #10, #10G |
| 30A | 3/4"C, 3 - #10, #10G |
| 30WN | 3/4"C, 3 - #10H, #10N, #10G |
| 50A | 1"C, 3 - #8, #8G |
| 60A | 1"C, 3 - #6, #8G |
| 60WN | 1"C, 3 - #6H, #6N, #8G |
| 80A | 1 1/2"C, 3 - #4, #8G |
| 80AS | 1 1/2"C, 2 - #4, #8G |
| 100A | 1 1/2"C, 3 - #2, #6G |
| 125A | 2"C, 3 - #1, #6G |
| 125WN | 2"C, 3 - #1H, #1N, #6G |
| 150A | 2"C, 3 - #1/0, #6G |
| 175A | 2"C, 3 - #2/0, #4G |
| 200A | 2 1/2"C, 3 - #3/0, #4G |
| 200WN | 2 1/2"C, 3 - #3/0H, #3/0N, #4G |
| 225A | 2 1/2"C, 3 - #4/0, #2G |
| 250A | 3"C, 3 - 250KCM, #2G |
| 275A | 3"C, 3 - 300KCM, #2G |
| 300A | 3"C, 3 - 350KCM, #2G |
| 400A | 4"C, 3 - 500KCM, #1G |

| SERVICE CONDUIT SCHEDULE | |
|--------------------------|----------------------------|
| NAME | COPPER |
| S100A | 1 1/2"C, 3 - #2, #2N |
| S200A | 2 1/2"C, 3 - #3/0, #3/0N |
| S400A | 4"C, 3 - 500KCM, 500KCM(N) |

| | | | | | | | | |
|---------------------|--|------------|-----|-------|-------------------------|-----|-----------------------|-----------------|
| G4242L1225CU | | VOLTAGE LL | 240 | VOLTS | VOLTAGE LN | 120 | VOLTS | 1 PHASE, 3 WIRE |
| NAMEPLATE | | BUS RATING | 400 | AMPS | ENCLOSURE: NEMA 1 | | MOUNTING: SURFACE | |
| MODIFIED PANEL CMP | | MCB OR MLO | MLO | AMPS | MANUFACTURER: SQUARE D | | MODEL: QO LOAD CENTER | |
| FED FROM PANEL CMP | | MCB RATING | | | BRANCH BREAKER: PLUG-ON | | | |
| FED FROM SERVICE DS | | AIC RATING | 22 | KAIC | | | | |

| CRCT DESCRIPTION | D | LOAD AMPS | | BKR | CCT | Ø | CCT | BKR | LOAD AMPS | | D | CRCT DESCRIPTION |
|--------------------|---|-----------|------|--------|-----|---|-----|--------|-----------|-------|---|----------------------|
| | | A | B | | | | | | A | B | | |
| RR LIGHT & EF1,2,3 | 2 | 10 | | 20/1P | 1 | A | 2 | 20/1P | 9 | | 2 | TRAINING RM LIGHTING |
| KITCHEN LGHT | 2 | | 5 | 20/1P | 3 | B | 4 | 20/1P | | 8 | | OUTDOOR LGHT (LC) |
| RESTRM RCPT | 3 | 4.5 | | 20/1P | 5 | A | 6 | 20/1P | 8 | | | OUTDOOR LGHT (LC) |
| COUNTER RCPT | 3 | | 3 | 20/1P | 7 | B | 8 | 20/1P | | 6 | 9 | REFRIGERATOR |
| DISPOSAL | 9 | 6 | | 20/1P | 9 | A | 10 | 20/1P | 10 | | 1 | MICROWAVE |
| TRASH COMPACTERS | 9 | | 6 | 20/1P | 11 | B | 12 | 50/2P | | 35 | 1 | RANGE |
| COUNTER RCPT | 3 | 4.5 | | 20/1P | 13 | A | 14 | | 35 | | 1 | FURNACE |
| COUNTER RCPT | 3 | | 3 | 20/1P | 15 | B | 16 | 20/1P | | 12 | 9 | HVAC CONDENSER |
| TRAINING RM RCPT | 3 | 4.5 | | 20/1P | 17 | A | 18 | 30/2P | 19 | | 9 | |
| TRAINING RM RCPT | 3 | | 4.5 | 20/1P | 19 | B | 20 | | 19 | | 9 | |
| SPARE | | | | 20/1P | 21 | A | 22 | 20/1P | | | | PHOTOCELL |
| GAS HEATER | | | 1.8 | 20/1P | 23 | B | 24 | 20/1P | | 6 | | BAYS RCPT |
| EFCP | | 2 | | 20/1P | 25 | A | 26 | 20/1P | 6 | | | STORAGE RCPT |
| ERS FAN | | | 13.8 | 20/1P | 27 | B | 28 | 20/1P | | 4.5 | | EXTERIOR RCPT |
| ERS CP | | 0.5 | | 20/1P | 29 | A | 30 | 20/1P | | | | |
| EF4 | | | 7.2 | 20/1P | 31 | B | 32 | 20/1P | | | | |
| EF5 | | | 7.2 | 20/1P | 33 | A | 34 | 20/1P | | | | |
| PANEL CA FEEDER | | | 24 | 100/2P | 35 | B | 36 | 20/1P | | | | |
| | | | 36 | | 37 | A | 38 | 20/1P | | | | |
| SOLAR | | | | 30/2P | 39 | B | 40 | 100/2P | | 116.2 | | PANEL CB FEEDER |
| | | | | | 41 | A | 42 | | | | | |
| SUBTOTAL (AMPS) | | 75.2 | 68.3 | | | | | | 120 | | | |
| TOTAL (AMPS) | | 282.2 | 275 | | | | | | 207 | 206.7 | | |

| | | | | | | | | |
|--------------------|--|------------|-----|-------|-------------------------|-----|-----------------------|-----------------|
| G2440L1125CU | | VOLTAGE LL | 240 | VOLTS | VOLTAGE LN | 120 | VOLTS | 1 PHASE, 3 WIRE |
| NAMEPLATE | | BUS RATING | 125 | AMPS | ENCLOSURE: NEMA 1 | | MOUNTING: SURFACE | |
| MODIFIED PANEL CB | | MCB OR MLO | MLO | AMPS | MANUFACTURER: SQUARE D | | MODEL: QO LOAD CENTER | |
| FED FROM PANEL CMP | | MCB RATING | | | BRANCH BREAKER: PLUG-ON | | | |
| FED FROM PANEL CMP | | AIC RATING | 10 | KAIC | | | | |

| CRCT DESCRIPTION | D | LOAD AMPS | | BKR | CCT | Ø | CCT | BKR | LOAD AMPS | | D | CRCT DESCRIPTION |
|------------------|---|-----------|-------|-------|-----|---|-----|-------|-----------|------|---|-------------------|
| | | A | B | | | | | | A | B | | |
| RCPT | 1 | 6 | | 20/1P | 1 | A | 2 | 20/1P | 6 | | 1 | RCPT |
| RCPT | 1 | | 6 | 20/1P | 3 | B | 4 | 20/1P | | 6 | 1 | LGHT |
| RCPT | 1 | 6 | | 20/1P | 5 | A | 6 | 20/1P | 6 | | 1 | RCPT |
| RCPT | 1 | | 6 | 20/1P | 7 | B | 8 | 20/1P | | 6 | 2 | LGHT-OFFICE/LOBBY |
| RCPT | 1 | 6 | | 20/1P | 9 | A | 10 | 20/1P | 15 | | 2 | LGHT-SOUTH BAY |
| RCPT - OFFICE | 3 | | 6 | 20/1P | 11 | B | 12 | 40/2P | | 20 | 9 | AIR COMPRESSOR |
| WASHER | 9 | 10 | | 20/1P | 13 | A | 14 | | 20 | | 9 | |
| DRYER | 1 | | 20 | 30/2P | 15 | B | 16 | 20/1P | | | | RCPT |
| | 1 | 20 | | | 17 | A | 18 | 20/1P | | | | RCPT |
| HEATERR UH1 | | 12.5 | | 20/2P | 19 | B | 20 | 20/1P | | 10 | | NEW INTERIOR LGHT |
| | | | 12.5 | | 21 | A | 22 | 20/2P | 12.5 | | | |
| BAYS DOOR | | | 11.2 | 20/1P | 23 | B | 24 | | | 12.5 | | |
| SUBTOTAL (AMPS) | | 60.5 | 61.7 | | | | | | 59.5 | 54.5 | | |
| TOTAL (AMPS) | | 120 | 116.2 | | | | | | | | | |



| | | | | | | | | |
|--------------------|--|------------|-----|-------|-------------------------|-----|-----------------------|-----------------|
| G2440L1125CU | | VOLTAGE LL | 240 | VOLTS | VOLTAGE LN | 120 | VOLTS | 1 PHASE, 3 WIRE |
| NAMEPLATE | | BUS RATING | 125 | AMPS | ENCLOSURE: NEMA 1 | | MOUNTING: SURFACE | |
| EXISTING PANEL CA | | MCB OR MLO | MLO | AMPS | MANUFACTURER: SQUARE D | | MODEL: QO LOAD CENTER | |
| FED FROM PANEL CMP | | MCB RATING | | | BRANCH BREAKER: PLUG-ON | | | |
| FED FROM PANEL CMP | | AIC RATING | 10 | KAIC | | | | |

| CRCT DESCRIPTION | D | LOAD AMPS | | BKR | CCT | Ø | CCT | BKR | LOAD AMPS | | D | CRCT DESCRIPTION |
|------------------|---|-----------|----|-------|-----|---|-----|-------|-----------|----|---|------------------|
| | | A | B | | | | | | A | B | | |
| EXISTING CRCT | 1 | 6 | | 20/1P | 1 | A | 2 | 20/1P | 6 | | 1 | EXISTING CRCT |
| EXISTING CRCT | 1 | | 6 | 20/1P | 3 | B | 4 | 20/1P | | 6 | 1 | EXISTING CRCT |
| EXISTING CRCT | 1 | 6 | | 20/1P | 5 | A | 6 | 20/1P | 6 | | 1 | EXISTING CRCT |
| EXISTING CRCT | 1 | | 6 | 20/1P | 7 | B | 8 | 20/1P | | 6 | 1 | EXISTING CRCT |
| SPARE | | | | 20/1P | 9 | A | 10 | 20/1P | 12 | | 2 | NEW BAY LGHT |
| SPARE | | | | 20/1P | 11 | B | 12 | 20/1P | | | | SPARE |
| SPARE | | | | 20/1P | 13 | A | 14 | 20/1P | | | | SPARE |
| SPARE | | | | 20/1P | 15 | B | 16 | 20/1P | | | | SPARE |
| SPARE | | | | 20/1P | 17 | A | 18 | 20/1P | | | | SPARE |
| SPARE | | | | 20/1P | 19 | B | 20 | 20/1P | | | | SPARE |
| SPARE | | | | 20/1P | 21 | A | 22 | 20/1P | | | | SPARE |
| SPARE | | | | 20/1P | 23 | B | 24 | 20/1P | | | | SPARE |
| SUBTOTAL (AMPS) | | 12 | 12 | | | | | | 24 | 12 | | |
| TOTAL (AMPS) | | 36 | 24 | | | | | | | | | |

| | | | | | | | | |
|-------------------|--|------------|-----|-------|-------------------------|-----|-----------------------|-----------------|
| G2440L1125CU | | VOLTAGE LL | 240 | VOLTS | VOLTAGE LN | 120 | VOLTS | 1 PHASE, 3 WIRE |
| NAMEPLATE | | BUS RATING | 125 | AMPS | ENCLOSURE: NEMA 1 | | MOUNTING: SURFACE | |
| EXISTING PANEL CC | | MCB OR MLO | MLO | AMPS | MANUFACTURER: SQUARE D | | MODEL: QO LOAD CENTER | |
| FED FROM PANEL CB | | MCB RATING | | | BRANCH BREAKER: PLUG-ON | | | |
| FED FROM PANEL CB | | AIC RATING | 10 | KAIC | | | | |

| CRCT DESCRIPTION | D | LOAD AMPS | | BKR | CCT | Ø | CCT | BKR | LOAD AMPS | | D | CRCT DESCRIPTION |
|--------------------|---|-----------|------|-----|-----|---|-----|-----|-----------|---|---|------------------|
| | | A | B | | | | | | A | B | | |
| SPACE | | | | | 1 | A | 2 | | | | | SPACE |
| FRONT ROLL DOOR | | | | | 3 | B | 4 | | | | | SPACE |
| SPACE | | | | | 5 | A | 6 | | | | | EXERCISE EQPM |
| SPACE | | | | | 7 | B | 8 | | | | | EXERCISE EQPM |
| NORTH RM ROLL DOOR | | 11.2 | | | 9 | A | 10 | | | | | SPACE |
| NORTH RM ROLL DOOR | | | 11.2 | | 11 | B | 12 | | | | | SPACE |
| SPACE | | | | | 13 | A | 14 | | | | | SPACE |
| SPACE | | | | | 15 | B | 16 | | | | | SPACE |
| SUBTOTAL (AMPS) | | 11.2 | 11.2 | | | | | | 0 | 0 | | |
| TOTAL (AMPS) | | 11.2 | 11.2 | | | | | | | | | |

| CONDUIT MATRIX | | | | | |
|--|-----|-----|-----|----------|-----|
| | RMC | RNC | FMC | MC CABLE | EMT |
| EXTERIOR EXPOSED | Y | | | | |
| WITHIN BUILDING | | | L | Y* | Y |
| BELOW FINISHED GRADE (HORIZONTAL RUNS) | Y | Y | | | |
| BELOW FINISHED GRADE (VERTICAL RUNS) | Y | | | | |

L - CONNECTION TO LIGHTS
 * WITHIN WALLS & BETWEEN RECEPTACLES ON THE SAME CIRCUIT

GENERAL NOTES

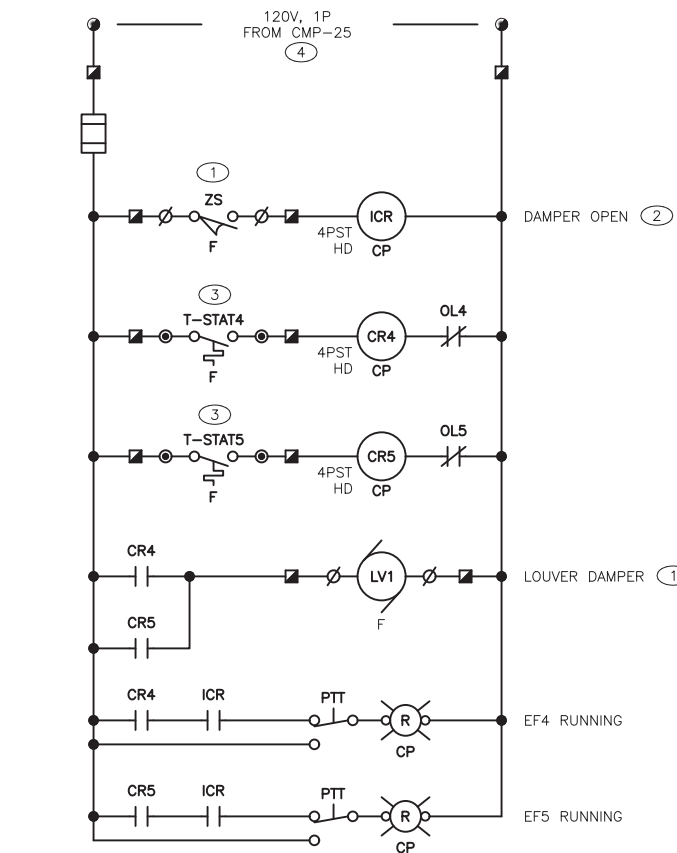
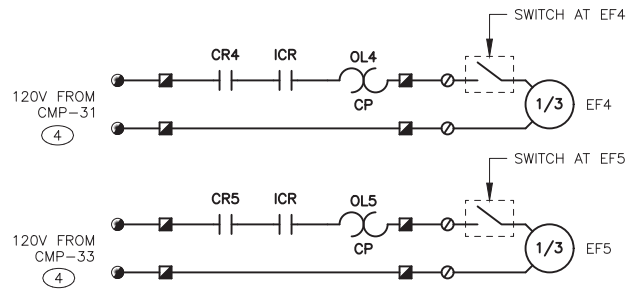
- SCHEDULES FOR EXISTING PANELS ARE SHOWN AS THEY APPEARED IN ORIGINAL PROJECT.
- CONTRACTOR TO VERIFY CONNECTED LOADS AND UPDATE PANEL SCHEDULES.
- CONTRACTOR TO PROVIDE NEW TYPEWRITTEN SCHEDULE FOR EACH POWER PANEL FOR RECORDS.
- MODIFICATION TO PANEL SCHEDULE IS SHOWN IN HEAVIER PEN WEIGHT OF THE DRAWING.

KEYED NOTES

- USE EXISTING SPARE 20/2P CB TO POWER EXHAUST FAN EF1.
- INSTALL NEW 20/2P CB IN PLACE OF EXISTING SPARE 20/1P CIRCUIT BREAKERS TO POWER EXHAUST FAN EF2.

ELECTRICAL SCHEDULES

CHIMAYO FIRE STATION ADDITION
 SANTA FE COUNTY
 CHIMAYO, NM



EFCP WIRING DIAGRAM
SCALE: NONE

| EQUIPMENT NAME | SYMBOL |
|--------------------|--------|
| EXHAUST FAN CP | ☐ |
| LOUVER DAMPER | ∅ |
| DISTRIBUTION PANEL | ● |

ABBREVIATION

| | |
|------|------------------------|
| 4PST | FOUR POLE SINGLE THROW |
| HD | HEAVY DUTY |

| ☐ TO ● | ☐ TO ∅ | ☐ TO EF4 | ☐ TO EF5 | ☐ TO T-STAT4 | ☐ TO T-STAT5 |
|--------|---------|----------|----------|--------------|--------------|
| 30AS | 4#14, G | 30AS | 30AS | 2#14, G | 2#14, G |

KEYED NOTES

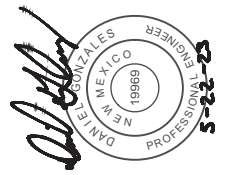
1. INTERLOCK THE EXHAUST FANS (EF4 AND EF5) WITH THE LOUVER DAMPER.
2. INTERLOCKING CONTROL RELAY (ICR); 4PST HEAVY DUTY.
3. INSTALL CONDUCTORS AS RECOMMENDED BY T-STAT MANUFACTURER IN 3/4" CONDUIT.
4. SEE SHEET E-602 FOR DISTRIBUTION PANEL CMP SCHEDULE.

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NUMERIC SCALE CONFIRMATION
DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES
IF THIS BAR EQUALS ONE INCH



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| DRAWN BY: | NW |
| CHECKED BY: | DG |
| PRIME DESIGN PROFESSIONAL: | STEVEN K. MORROW |
| PROJECT DATE: | MAY 2023 |

ELECTRICAL WIRING DIAGRAM

CHIMAYO FIRE STATION ADDITION
SANTA FE COUNTY
CHIMAYO, NM