

# Construct New 60 Soldier Barracks Wappapello Training Site Wappapello, Missouri

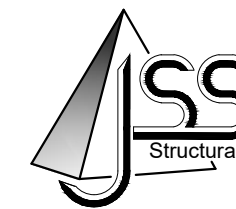
## ARCHITECT

**Buddy Webb & Company**  
Architects - Consultants  
3057 EAST CAIRO STREET (417) 877-1385 PHONE  
SPRINGFIELD, MISSOURI 65802

## CIVIL ENGINEER

**Bartlett & West**  
1801 W. NORTON, SUITE 309A  
SPRINGFIELD, MISSOURI 65803  
PHONE: (417) 429-0611

## STRUCTURAL ENGINEER



JS Smith Consulting Engineers, P.C.  
Missouri State Certificate of Authorization No. E2004026584  
Aaron D. Smith P.E. E-2000150070 Jeffrey S. Smith P.E. E-17069  
P.O. Box 8102 \* JOPLIN, MISSOURI 64802  
PHONE: 417-624-0444 \* FAX: 417-624-0430

## MECHANICAL / ELECTRICAL ENGINEER



Engineering | Energy | Innovation

2101 West Chesterfield Boulevard, Suite B-105A, Springfield, MO 65807  
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com

OWNER:

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

PROJECT

MANAGEMENT:

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER:

Buddy Webb & Company, Inc.  
Architects / Consultants

PROJECT NUMBER:

T2124-01

SITE NUMBER:

6325

ASSET NUMBER:

8136325016

BUILDING NUMBER:

3

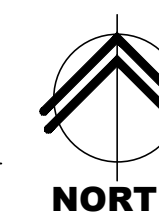


WAPPAPELLO TRAINING SITE

1  
G-001

**SITE LOCATION**

N.T.S.



SHEET NUMBER:

**G-001**

1 OF 36 SHEETS  
07/29/2022



# SCOPE OF WORK

PROJECT MANUAL (CS) SECTION REF. NUMBER	SECTION NAME REFERENCE (SECTIONS OWNER FURNISHED AND INSTALLED NOT INCLUDED IN PROJECT MANUAL - FOR REFERENCE ONLY)	FURNISHED BY CONTRACTOR	INSTALLED BY CONTRACTOR	FURNISHED BY OWNER	INSTALLED BY OWNER	CONTACT INFORMATION	
						COMPANY & ADDRESS	POINT OF CONTACT, PHONE (P), CELL (C), OR EMAIL (E)
01 11 00	SUMMARY OF WORK GENERAL BUILDING PERMIT (NOT REQUIRED) STATE DEPARTMENT OF NATURAL RESOURCES PERMIT (NOT REQUIRED)				X	STATE OF MISSOURI OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT DESIGN & CONSTRUCTION HARRY S TRUMAN STATE OFFICE BUILDING RM. 730 JEFFERSON CITY, MO 65102	CHRISTOPHER LLOYD, PROJECT MANAGER (O): (573) 526-0160 (C): (573) 395-6793 (E): Christopher.Lloyd@ca.mo.gov
01 11 00	SUMMARY OF WORK (ALL TRADE PERMITS, UTILITY IMPACT AND CONNECTION FEES, OR PERMITS AND FEES REQUIRED FOR PROJECT COMPLETION)	X				(TO BE DETERMINED)	(TO BE DETERMINED)
01 45 33	SPECIAL INSPECTIONS AND PROCEDURES (REFER TO SECTION FOR ADDITIONAL REQUIREMENTS)		X	X		SMITH & COMPANY ENGINEERS, INC. 901 VINE STREET P.O. BOX 72 POPLAR BLUFF, MISSOURI 63902	RANDY THURMAN (E): RANDYT@SHSMITHCO.COM PHONE: (573) 785-9621
08 71 00	DOOR HARDWARE (LOCK CORES AND KEYS - CONTRACTOR TO SUBMIT LIST OF MATERIALS REQUIRED FOR OWNER TO SUBMIT ORDER TO HARDWARE MANUFACTURER. COST OF MATERIALS AND DELIVERY BY CONTRACTOR)	X	X			STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JOSEPH SCHAEFER, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 39692 (C): (573) 690-4945 (E): joseph.e.schaefer10.nfg@mail.mil
11 20 00	COMMERCIAL EQUIPMENT (VENDING EQUIPMENT & ICE MACHINE)			X	X	(TO BE DETERMINED)	OWNER'S DESIGNATED PROJECT MANAGER
12 44 16	SHOWER CURTAINS (SHOWER CURTAINS AND HOOKS)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JOSEPH SCHAEFER, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 39692 (C): (573) 690-4945 (E): joseph.e.schaefer10.nfg@mail.mil
12 56 43	DORMITORY FURNITURE (BEDS, NIGHT STANDS, LOCKERS, SEATING, TABLES, RECYCLING CONTAINERS, FREE STANDING WASTE CONTAINERS)			X	X	(TO BE DETERMINED)	OWNER'S DESIGNATED PROJECT MANAGER
25 00 00	INTERGRATED AUTOMATION (ENERGY MANAGEMENT SYSTEM - HARDWARE, CONDUIT, WIRING, EQUIPMENT, CELLULAR SERVICE CONTRACT)	X	X			PELICAN WIRELESS SYSTEMS	PELICAN WIRELESS SYSTEMS SANDERS SUPPLY SPRINGDALE, ARKANSAS 72762 (479) 750-2665
25 00 00	INTERGRATED AUTOMATION (ENERGY MANAGEMENT SYSTEM - COORDINATION TO EXISTING SITE SYSTEM)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JOSEPH SCHAEFER, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 39692 (C): (573) 690-4945 (E): joseph.e.schaefer10.nfg@mail.mil
27 10 00	COMMUNICATIONS SYSTEMS STRUCTURED CABLING (CONDUIT, HARDWARE, WIRING, EQUIPMENT)	X	X			(TO BE DETERMINED)	OWNER'S DESIGNATED PROJECT MANAGER
27 10 00	COMMUNICATIONS SYSTEMS STRUCTURED CABLING (FIBER CABLING)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JOSEPH SCHAEFER, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 39692 (C): (573) 690-4945 (E): joseph.e.schaefer10.nfg@mail.mil
28 46 00	FIRE DETECTION AND ALARM (ENTIRE SYSTEM INCLUDING HARDWARE, CONDUIT, WIRING, EQUIPMENT)	X	X			(TO BE DETERMINED)	(TO BE DETERMINED)
28 46 00	FIRE DETECTION AND ALARM (REMOTE MONITORING SERVICE)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	AT ADMINISTRATION BUILDING JOSEPH SCHAEFER, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 39692 (C): (573) 690-4945 (E): joseph.e.schaefer10.nfg@mail.mil

SCOPE OF WORK SCHEDULE NOTES:  
1. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OWNER FURNISHED MATERIALS.

# SHEET INDEX

SHEET NO.	SHEET NAME
G-001	COVER SHEET
G-002	SHEET INDEX / SCOPE OF WORK SCHEDULE
G-101	CODE ANALYSIS PLAN
C-101	TOPOGRAPHIC SURVEY
C-102	SITE DEMOLITION PLAN
C-103	SITE DEVELOPMENT PLAN (ALTERNATE NO. 2)
C-104	SITE GRADING / EROSION CONTROL PLAN
C-104.1	SITE GRADING / EROSION CONTROL PLAN (ALTERNATE NO. 2)
C-105	SITE UTILITY PLAN
C-501	SITE DEVELOPMENT DETAILS
C-502	MISCELLANEOUS SITE DETAILS
S-001	STRUCTURAL NOTES
S-101	FOUNDATION PLAN
S-102	INTERIOR FRAMING PLAN
S-301	FOUNDATION DETAILS
A-101	FLOOR PLAN (ALTERNATE NO. 1)
A-102	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS (ALTERNATE NO. 1)
A-401	WALL SECTIONS (ALTERNATE NO. 1)
A-402	WALL SECTIONS (ALTERNATE NO. 1)
A-403	WALL SECTIONS
A-404	ENLARGED PLAN, INTERIOR ELEVATIONS (ALTERNATE NO. 1)
A-501	MISCELLANEOUS DETAILS
A-601	DOOR AND WINDOW SCHEDULES (ALTERNATE NO. 1)
A-701	REFLECTED CEILING PLAN (ALTERNATE NO. 1)
I-101	INTERIOR FINISH PLAN (ALTERNATES NO. 1 & NO. 3)
SE-101	SITE ELECTRICAL PLAN
P-101	UNDERFLOOR PLUMBING PLAN (ALTERNATE NO. 1)
P-102	PLUMBING PLAN
P-401	ENLARGED PLUMBING PLAN AND SCHEDULES (ALTERNATE NO. 1)
M-101	HVAC PLAN (ALTERNATE NO. 1)
E-101	LIGHTING PLAN (ALTERNATE NO. 1)
E-102	POWER PLAN (ALTERNATE NO. 1)
E-103	FIRE ALARM SYSTEM PLAN
E-601	ELECTRICAL DETAILS AND SCHEDULES

# GENERAL NOTES

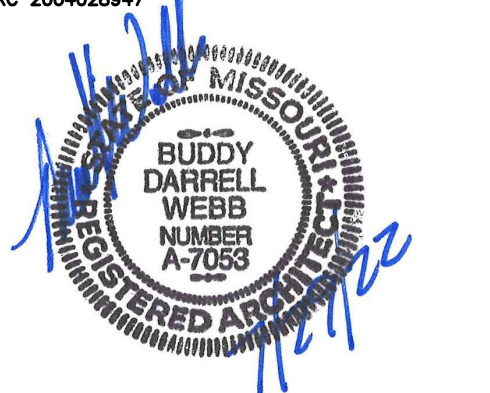
- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) THE ARCHITECT AND ENGINEER'S RESPONSIBILITY IS ONLY FOR THE INFORMATION INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS. ALL OTHER DOCUMENTS AND INSTRUMENTS REQUIRED FOR COMPLETION OF THE PROJECT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE HEREBY DISCLAIMED.
- (C) QUALITY STANDARD AND BUILDING CODE - ALL CONTRACTORS SHALL BE RESPONSIBLE FOR KNOWING THE QUALITY AND PUBLIC SAFETY REGULATIONS SET FORTH IN THE GOVERNING CODES AND OTHER APPLICABLE REGULATIONS OF LOCAL AND STATE AGENCIES HAVING JURISDICTION WHICH GOVERN EACH CONTRACTOR'S WORK.
- (D) THE ARCHITECT AND ENGINEER IS NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT INSPECTION OF THE WORK IN PROGRESS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION, THE ARCHITECT AND ENGINEER DOES NOT DELEGATE THEIR AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF THEIR PLANS OR SPECIFICATIONS.
- (E) FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.

# ABBREVIATIONS LEGEND

AFF	ABOVE FINISHED FLOOR	INSUL	INSULATE
AC	ACOUSTICAL	INT	INTERIOR
A/C	AIR CONDITIONING	JST	JOIST
ALT	ALTERNATE	JT	JOINT
ALUM	ALUMINUM	JNT	JOINT
AL	ANCHOR BOLT	KIT	KITCHEN
AB	ANCHOR BOLT	LH	LEFT HAND
ARCH	ARCHITECT (URAL)	LF	LINEAL FOOT
BRK	BRICK	LTL	LENGTH
BRG	BEARING	L	LINTEL
BM	BENCH MARK	LL	LIVE LOAD
BEI	BELOW	MACH	MACHINE
BLK	BLOCK	MH	MANHOLE
BLKG	BLOCKING	MFR	MANUFACTURER
BD	BOARD	MAS	MASONRY
BW	BOTH WAYS	MO	MASONRY OPENING
BOT	BOTTOM	MAX	MAXIMUM
BF	BOTTOM OF FOOTING	MECH	MECHANICAL
BOF	BOTTOM OF FOOTING	MED	MEDIUM
BRK	BRICK	MFR	MODIFIED BITUMEN ROOFING
BLDG	BUILDING	MET	METAL
BUR	BUILT-UP ROOFING	MTL	METAL
CAB	CABINET	M	METER(S)
CLG	CEILING	MWK	MILLWORK
CL	CENTER LINE	MIN	MINIMUM
C/O	CENTER OF	MISC	MISCELLANEOUS
CC	CENTER TO CENTER	MT	MOUNTED, (ING)
CLR	CLEAR	NOM	NOMINAL
COL	COLUMN	N	NORTH
CONC	CONCRETE	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CONST	CONSTRUCTION	OC	ON CENTER(S)
CONTR	CONTRACTOR	OPG	OPENING
CONT	CONTINUOUS	OPH	OPPOSITE HAND
CNTR	COUNTER	OD	OUTSIDE DIAMETER
CFL	COUNTER FLASHING	OO	OUT TO OUT
C/SK	COUNTERSINK	OA	OVERALL
CRS	COURSES	OH	OVERHEAD
CF	CUBIC FOOT	PC	PIECE
CY	CUBIC YARD	PNT	PAINT(ED)
DL	DEAD LOAD	PTD	PAINTED
DEM	DEMOLISH, DEMOLITION	PKG	PARKING
DTL	DETAIL	PLAM	PLASTIC LAMINATE
DIAG	DIAGONAL	PL	PLATE
DIAM	DIAMETER	PWD	PLYWOOD
DM	DIMENSION	PVC	POLYVINYL CHLORIDE
DR	DOOR	PSF	POUNDS PER SQUARE FT.
DS	DOWN SPOUT	PSI	POUNDS PER SQUARE IN.
D	DRAIN	PT	PRESSURE TREATED
DWG	DRAWING	PL	PROPERTY LINE
DF	DRAINING FOUNTAIN	REM	REMOVE
E	EAST	RET	RETURN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RH	RIGHT HAND
ELEC	ELECTRICAL	RD	ROOF DRAIN
EWC	ELECTRIC WATER COOLER	RFG	ROOFING
EL	ELEVATION	RM	ROOM
ELEV	ELEVATION	RO	ROUGH OPENING
ELEV	ELEVATOR	SNT	SEALANT
EMER	EMERGENCY	SLNT	SEALANT
EQ	EQUAL	SEC	SECTION
EXG	EXISTING	SECT	SECTION
EXIST	EXISTING	SHTG	SHEATHING
EXP	EXPOSED	SHT	SHEET
EXT	EXTERIOR	SIM	SIMILAR
FOF	FACE OF FINISH	SC	SOLID CORE
FO	FACE OF	S	SOUTH
FOM	FACE OF MASONRY	SF	SQUARE FOOT
FOS	FACE OF STUDS	SI	SQUARE INCH
FIN	FINISHED	SY	SQUARE YARD
FFE	FINISHED FLOOR ELEV	STD	STANDARD
FFL	FINISHED FLOOR LINE	STO	STORAGE
FE	FIRE EXTINGUISHER	SUS	SUSPENDED
FEC	FIRE EXTINGUISHER CABINET	SYM	SYMMETRY, (ICAL)
FLG	FLASHING	TEL	TELEPHONE
FLR	FLOOR	TV	TELEVISION
FD	FLOOR DRAIN	THK	THICKNESS
FTG	FOOTING	T&G	TONGUE & GROOVE
FDN	FOUNDATION	TM	TOP OF MASONRY
FNDN	FOUNDATION	TS	TOP OF STEEL
FUR	FURFOLDING	TOS	TOP OF STEEL
GA	GAGE GAUGE	TW	TOP OF WALL
GV	GALVANIZED	TOW	TOP OF WALL
GALV	GALVANIZED	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UNO	UNLESS OTHERWISE NOTED
GL	GLASS, GLAZING	UNO	UNLESS NOTED OTHERWISE
GP	GYPSONUM	VERT	VERTICAL
GYP	GYPSONUM	VT	VERTICAL
QWB	GYPSONUM WALL BOARD	WSCOT	WAINSCOT
HTG	HEATING	WC	WATER CLOSET
HVAC	HEATING/VENTILATING/AIR COND.	WWF	WELDED WIRE FABRIC
HT	HEIGHT	W	WEST
HC	HOLLOW CORE	W	WIDTH, WIDE
HM	HOLLOW METAL	WIN	WINDOW
HK	HOOK(S)	WO	WITHOUT
HOR	HORIZONTAL	W/O	WITHOUT
HB	HOSE BIBB	WD	WOOD
INS	INSULATE(D), (ION)		

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

ARCHITECTURAL FIRM REGISTRATION NO.:  
ARC 2004209947



SHEETS BEARING THIS SEAL ARE AUTHENTICATED,  
RESPONSIBILITY FOR ALL OTHER PLANS,  
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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3057 EAST CAIRO STREET  
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OFFICE OF ADMINISTRATION  
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MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPPELO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPPELO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T124-01-6325-8136325016-G-002  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
SHEET INDEX /  
SCOPE OF WORK  
SCHEDULE

SHEET NUMBER:

# G-002

2 OF 36 SHEETS  
07/29/2022





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WAPPAPPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-G-101  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**CODE  
ANALYSIS  
PLAN**

SHEET NUMBER:

**G-101**

3 OF 36 SHEETS  
07/29/2022

**BUILDING CODE**

JURISDICTION: MISSOURI OFFICE OF ADMINISTRATION - FACILITIES MANAGEMENT, DESIGN & CONSTRUCTION  
CITY: WAPPAPPELLO, MISSOURI  
COUNTY: BUTLER  
ZIP CODE: 63966

**GOVERNING CODES AND STANDARDS**  
BUILDING CODE: 2018 IBC  
PLUMBING CODE: 2018 IPC  
MECHANICAL CODE: 2018 IMC  
ELECTRICAL CODE: 2017 NEC  
FIRE CODE: 2018 IFC  
FUEL / GAS CODE: 2018 IFGC  
ENERGY CODE: 2018 IECC  
ACCESSIBLE CODE: 2009 ICC A117.1  
ACCESSIBILITY CODE: 2010 ADA

**USE GROUP & CONSTRUCTION TYPE**  
PRIMARY USE GROUP: R-1 (RESIDENTIAL)  
MIXED USE AND OCCUPANCY: SEPARATED  
CONSTRUCTION TYPE: I-B (NON-COMBUSTIBLE / UNPROTECTED)

**AREA MODIFICATIONS**  
FRONTAGE INCREASE: NOT APPLIED  
AUTOMATIC SPRINKLER INCREASE: PROVIDED

**ALLOWABLE BUILDING HEIGHT & AREA**  
HEIGHT (S): 75'-0"  
NUMBER OF STORIES (S): 5 STORIES  
AREA (S1): 64,000 SQ. FT.

**ACTUAL BUILDING HEIGHT & AREA**  
HEIGHT: 16'-8"  
NO. OF STORIES: 1 STORY  
AREA: 7,800 SQ. FT.

**FIRE PROTECTION SYSTEMS**  
AUTOMATIC SPRINKLER SYSTEM: REQUIRED (IBC 903.2.8)  
PORTABLE FIRE EXTINGUISHERS: PROVIDED (IBC 906.1)  
MANUAL FIRE ALARM: REQUIRED (IBC 907.2.8.1)  
AUTOMATIC SMOKE DETECTION: REQUIRED (IBC 907.2.8.2)

**STRUCTURAL DESIGN**  
(REFER TO STRUCTURAL DRAWINGS)

1. ROOF LIVE LOAD: 20.0 PSF  
2. ROOF DEAD/COLLATERAL LOADS: 20.0 PSF  
A. DEAD LOAD (DOES NOT INCLUDE PRECAST)  
B. SPRINKLER SYSTEM  
UNIFORM BRANCH PIPE LOAD: 1.0 PSF  
LINEAL LOOP / TEE MAIN PIPE LOAD: 25.0 PLF  
C. SHOWER CEILING: 20.0 PSF

3. SNOW LOADS: Ce = 1.0 Ct = 1.0  
GROUND LOAD (Pg): 15 PSF  
MINIMUM ROOF SNOW LOAD (Pi): 10.5 PSF  
IMPORTANCE FACTOR (Is): 1.0

4. WIND LOADS: Gcpi = ±0.18  
BASIC WIND SPEED: Vw = 105 MPH  
Vad = 81.3 MPH

EXPOSURE: C  
Gcpi: ±0.18  
Kzt: 1.0  
Kd: 0.85

5. SEISMIC  
Ss: 0.987  
S1: 0.340  
Sds: 0.790  
Sd1: 0.340  
IMPORTANCE FACTOR (Ie): 1.0  
SITE CLASS: C  
DESIGN CATEGORY: D

**COMMERCIAL ENERGY EFFICIENCY CODE**  
COMPLIANCE WITH BUILDING ENERGY EFFICIENCY REQUIREMENTS BASED UPON APPLICABLE ENERGY CODE (PERFORMANCE METHOD). REFER TO PROJECT MANUAL

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO PLANS, SECTIONS, AND DETAILS FOR CONSTRUCTION OF FIRE RATED ASSEMBLIES. WHERE UNDERWRITERS LABORATORY (UL) TEST NUMBERS ARE REFERENCED, CONTRACTOR SHALL PROVIDE CONSTRUCTION MATERIALS, MEANS AND METHODS TO COMPLY WITH TESTED ASSEMBLY.
- (C) REFER TO FIRE ALARM, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (D) OWNER FURNISHED AND INSTALLED FURNISHINGS AND FIXTURES SHOWN FOR REFERENCE ONLY.
- (E) CONTRACTOR TO PROVIDE PORTABLE FIRE EXTINGUISHERS DURING CONSTRUCTION AS REQUIRED TO PROTECT THE WORK AREA AND EACH STORAGE UNIT AND JOB TRAILER PER THE FIRE CODE.
- (F) CONTRACTOR TO SUBMIT FIRE SPRINKLER SYSTEM ENGINEERING SUBMITTALS FOR REVIEW AND APPROVAL.
- (G) SURFACE MOUNTED PORTABLE FIRE EXTINGUISHERS SHALL BE UL LISTED ABC TYPE, WITH 10 LBS. CAPACITY.
- (H) EXIT DISCHARGE DOORS, PROVIDE TACTILE EXIT SIGNS STATING "EXIT WITH BRAILLE LETTERING, SIGN AND MOUNTING TO COMPLY WITH ANSI A117.1. REFER TO FLOOR PLAN FOR LOCATIONS.

**SPECIAL INSPECTIONS**

- NOTES:
1. REFER TO PROJECT MANUAL - SECTION 01 45 33 SPECIAL INSPECTIONS AND PROCEDURES FOR REQUIREMENTS.
  2. THE OWNER SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING AND SPECIAL INSPECTIONS UNLESS OTHERWISE INDICATED.

**SYMBOLS LEGEND**

- R-1** PRIMARY USE GROUP: (RESIDENTIAL)
- II-B** CONSTRUCTION TYPE: (NON-COMBUSTIBLE/UNPROTECTED)
- 325 SF ROOM SQUARE FOOTAGE:
- 32' 240" DESIGN OCCUPANT LOAD SERVED BY EXIT: MAXIMUM ALLOWABLE CAPACITY: (EXAMPLE: 36'/0.15 = 240)
- (N) OCCUPANT LOAD SERVED BY EXIT BUT NOT COUNTED IN TOTAL OCCUPANT LOAD:
- (1/2) HOUR FIRE RATED ASSEMBLY EXTENDS UP TO DECK, FIRE SEAL COMPLETELY.
- (1) HOUR FIRE RATED ASSEMBLY EXTENDS UP TO DECK, FIRE SEAL COMPLETELY.
- (XX) ROOM OCCUPANT LOAD AT 15 SQ. FT. NET PER PERSON:
- (XX) ROOM OCCUPANT LOAD AT 20 SQ. FT. NET PER PERSON:
- (XX) ROOM OCCUPANT LOAD AT 50 SQ. FT. GROSS PER PERSON:
- (XX) ROOM OCCUPANT LOAD AT 300 SQ. FT GROSS PER PERSON:
- FDC FIRE DEPARTMENT CONNECTION
- FACP FIRE ALARM CONTROL PANEL
- F FIRE ALARM PULL STATION
- V FIRE VISUAL ALARM
- AV FIRE ALARM AUDIO / VISUAL DEVICE
- SD SMOKE DETECTOR
- EMERGENCY EXIT LIGHTING
- EMERGENCY LIGHTING
- FE FIRE EXTINGUISHER (SURFACE MOUNTED WITH BRACKET)
- EXIT ACCESS TRAVEL DISTANCE (LENGTH IN FEET)
- ACCESSIBLE CLEAR FLOOR AREA

**PLUMBING FIXTURE SUMMARY**

GENERAL  
IPC TABLE 403.1  
PRIMARY OCCUPANCY: R-1 (RESIDENTIAL)  
TOTAL OCCUPANCY: 127

MINIMUM PLUMBING FACILITIES REQUIRED BY OCCUPANCY PER SEX  
CALCULATED BY RATIO BASED UPON ACTUAL USE (IPC 403.1):  
FEMALE: 8 / 127 = 0.06  
MALE: 119 / 127 = 0.94

PLUMBING FIXTURES  
WATER CLOSETS (URINALS): 1 PER 100  
REQUIRED FOR FEMALE: 8 / 10 = 1  
PROVIDED FOR FEMALE: 1  
REQUIRED FOR MALE: 119 / 10 = 12  
PROVIDED FOR MALE: 12

LAVATORIES:  
REQUIRED FOR FEMALE: 1 PER 100  
PROVIDED FOR FEMALE: 8 / 10 = 1  
REQUIRED FOR MALE: 119 / 10 = 12  
PROVIDED FOR MALE: 12

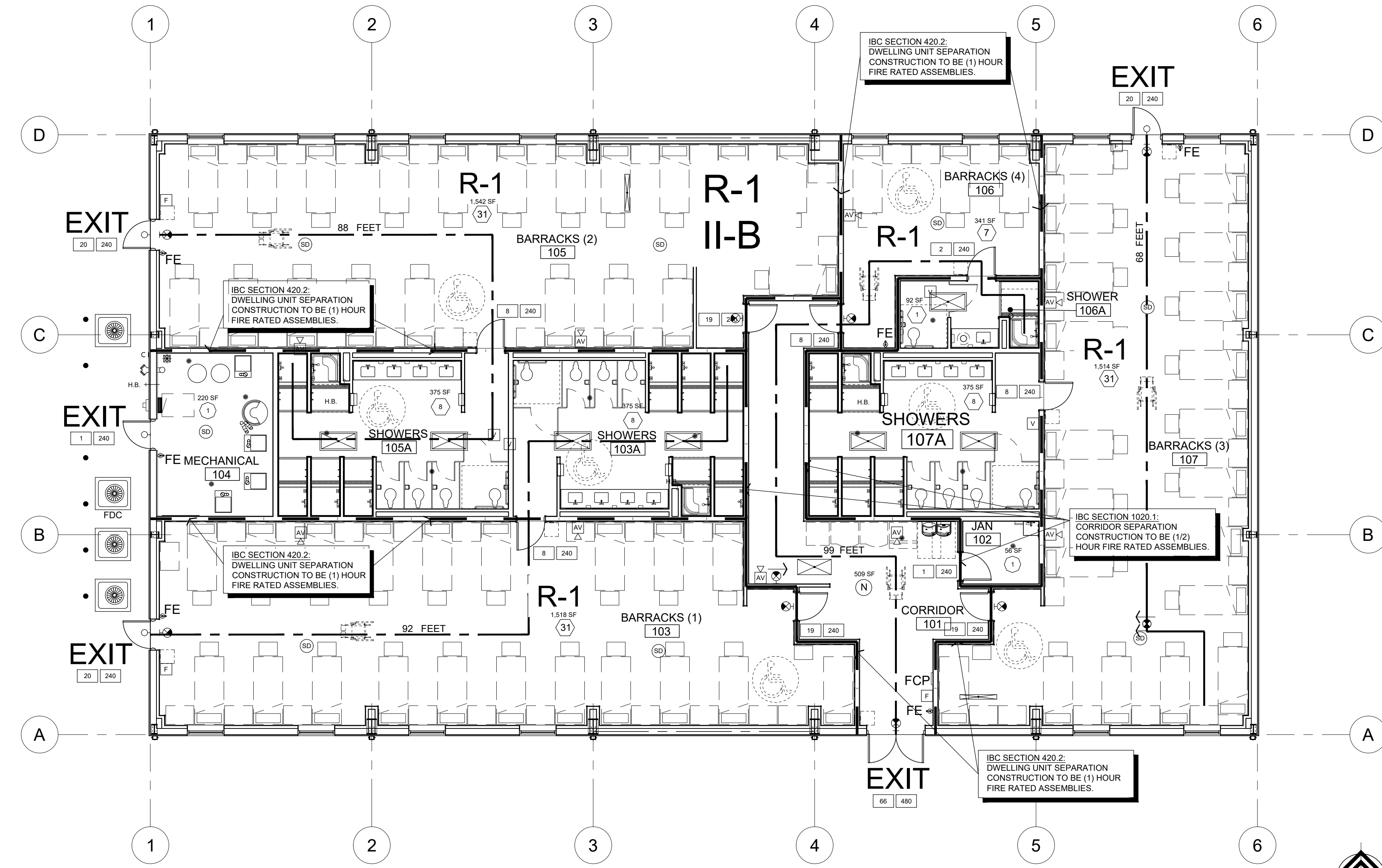
SHOWERS:  
REQUIRED FOR FEMALE: 8 / 8 = 1  
PROVIDED FOR FEMALE: 1  
REQUIRED FOR MALE: 119 / 8 = 15  
PROVIDED FOR MALE: 15

DRINKING FOUNTAINS:  
REQUIRED: 1 PER 100  
127 / 100 = 2  
PROVIDED: 2

SERVICE SINK REQUIRED: 1  
SERVICE SINK PROVIDED: 1

**OCCUPANCY LOAD SUMMARY**

ROOM OR AREA (REFER TO FLOOR PLAN)	AREA PER OCCUPANT(S.F.)	OCCUPANTS (QTY.)
101 - CORRIDOR	0	0
102 - JANITOR	300	1
103 - BARRACKS (1)	50	31
103A - SHOWERS	50	8
104 - MECHANICAL	300	1
105 - BARRACKS (2)	50	31
105A - SHOWERS	50	7
106 - BARRACKS (4)	50	1
106A - SHOWERS	50	1
107 - BARRACKS (3)	50	31
107A - SHOWERS	50	8
TOTAL OCCUPANCY		127

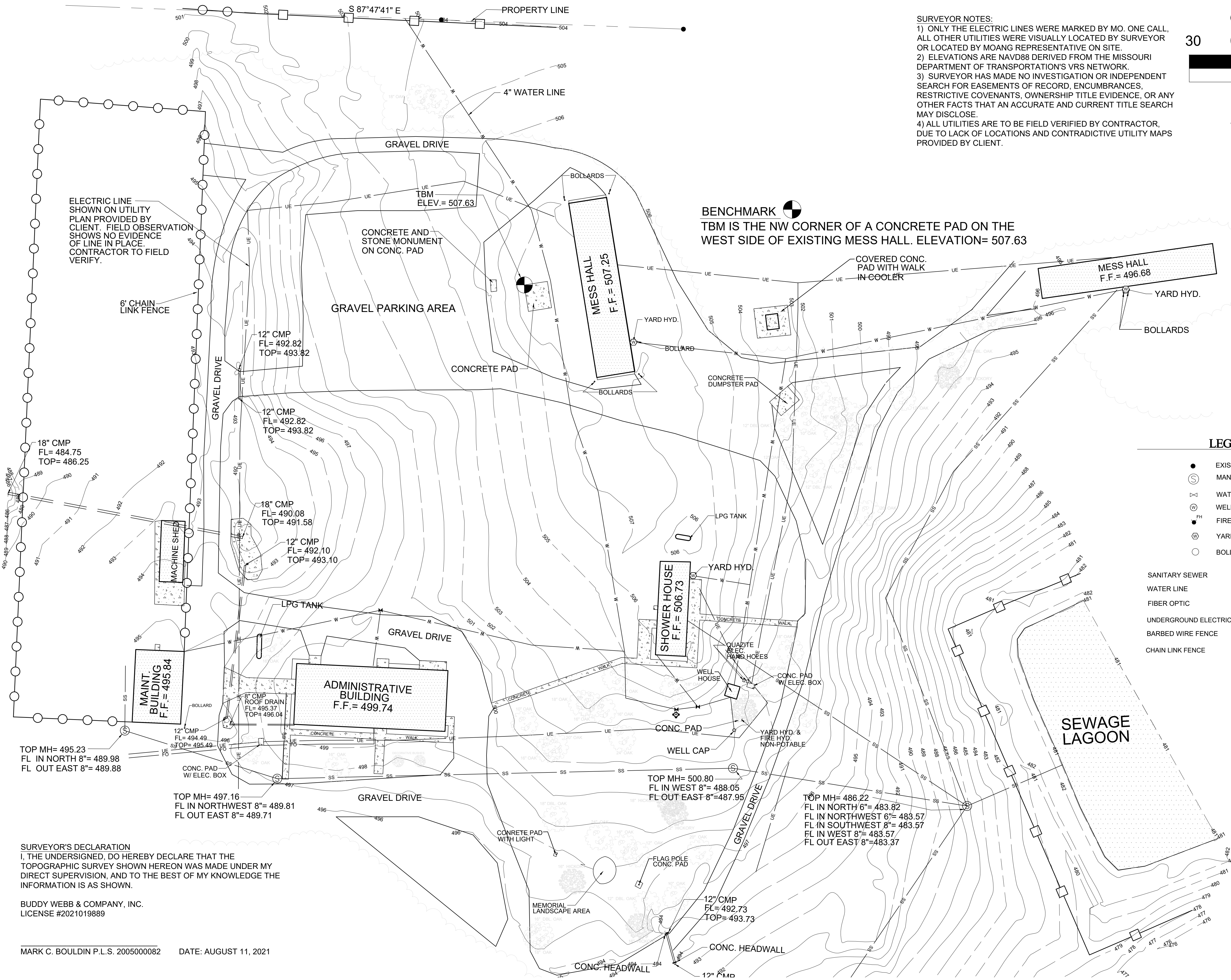


**1 CODE ANALYSIS PLAN**

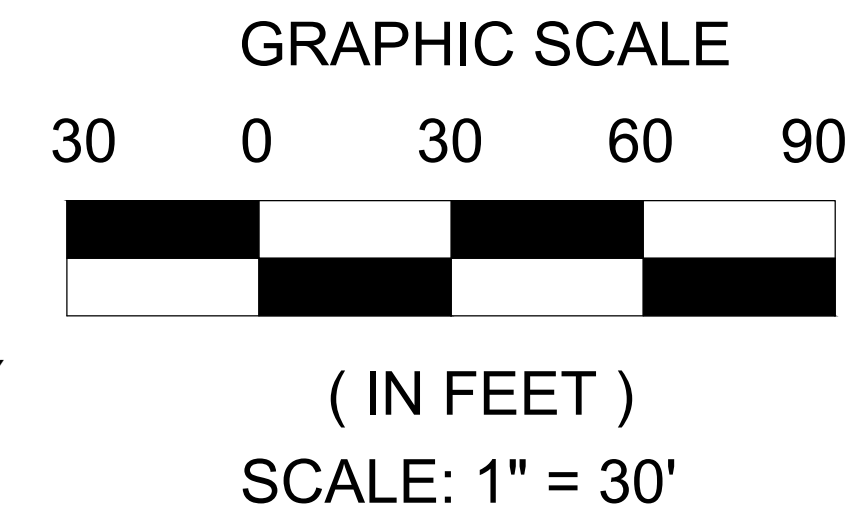
G-101 1/8" = 1'-0"







**SURVEYOR NOTES:**  
 1) ONLY THE ELECTRIC LINES WERE MARKED BY MO. ONE CALL, ALL OTHER UTILITIES WERE VISUALLY LOCATED BY SURVEYOR OR LOCATED BY MOANG REPRESENTATIVE ON SITE.  
 2) ELEVATIONS ARE NAVD88 DERIVED FROM THE MISSOURI DEPARTMENT OF TRANSPORTATION'S VRS NETWORK.  
 3) SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.  
 4) ALL UTILITIES ARE TO BE FIELD VERIFIED BY CONTRACTOR, DUE TO LACK OF LOCATIONS AND CONTRADICTIVE UTILITY MAPS PROVIDED BY CLIENT.



NORTH BASED ON NAVD88 DERIVED FROM THE MISSOURI DEPARTMENT OF TRANSPORTATION'S VRS NETWORK.

**LEGEND**

- EXISTING IRON PIN
  - MANHOLE
  - ⊗ WATER VALVE
  - ⊕ WELLCAP
  - ⊙ FIRE HYDRANT
  - ⊙ YARD HYDRANT
  - BOLLARD
- 
- SS SANITARY SEWER
  - W WATER LINE
  - FO FIBER OPTIC
  - UE UNDERGROUND ELECTRIC
  - BARBED WIRE FENCE
  - CHAIN LINK FENCE

**SURVEYOR'S DECLARATION**  
 I, THE UNDERSIGNED, DO HEREBY DECLARE THAT THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS MADE UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE THE INFORMATION IS AS SHOWN.

BUDDY WEBB & COMPANY, INC.  
 LICENSE #2021019889

MARK C. BOULDIN P.L.S. 2005000082 DATE: AUGUST 11, 2021

LAND SURVEYING FIRM REGISTRATION NO.:  
 LS-2021019889



SHEETS BEARING THIS SEAL ARE AUTHENTICATED, RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

**Buddy Webb & Company, Inc.**  
 Land Surveyor  
 3057 EAST CAIRO STREET  
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OFFICE OF ADMINISTRATION  
 DIVISION OF FACILITIES  
 MANAGEMENT,  
 DESIGN AND CONSTRUCTION

DEPARTMENT OF  
 PUBLIC SAFETY  
 MISSOURI ARMY  
 NATIONAL GUARD

CONSTRUCT NEW  
 60 SOLDIER BARRACKS

WAPPAPELLO  
 TRAINING SITE  
 461 COUNTY ROAD 517  
 WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
 SITE # 6325  
 ASSET # 8136325016  
 BUILDING # 3

REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-C-101  
 DRAWN BY: CLH  
 CHECKED BY: MB  
 DESIGNED BY: \_\_\_\_\_

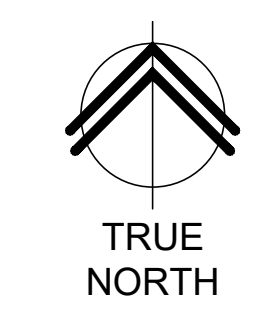
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**TOPOGRAPHIC SURVEY**

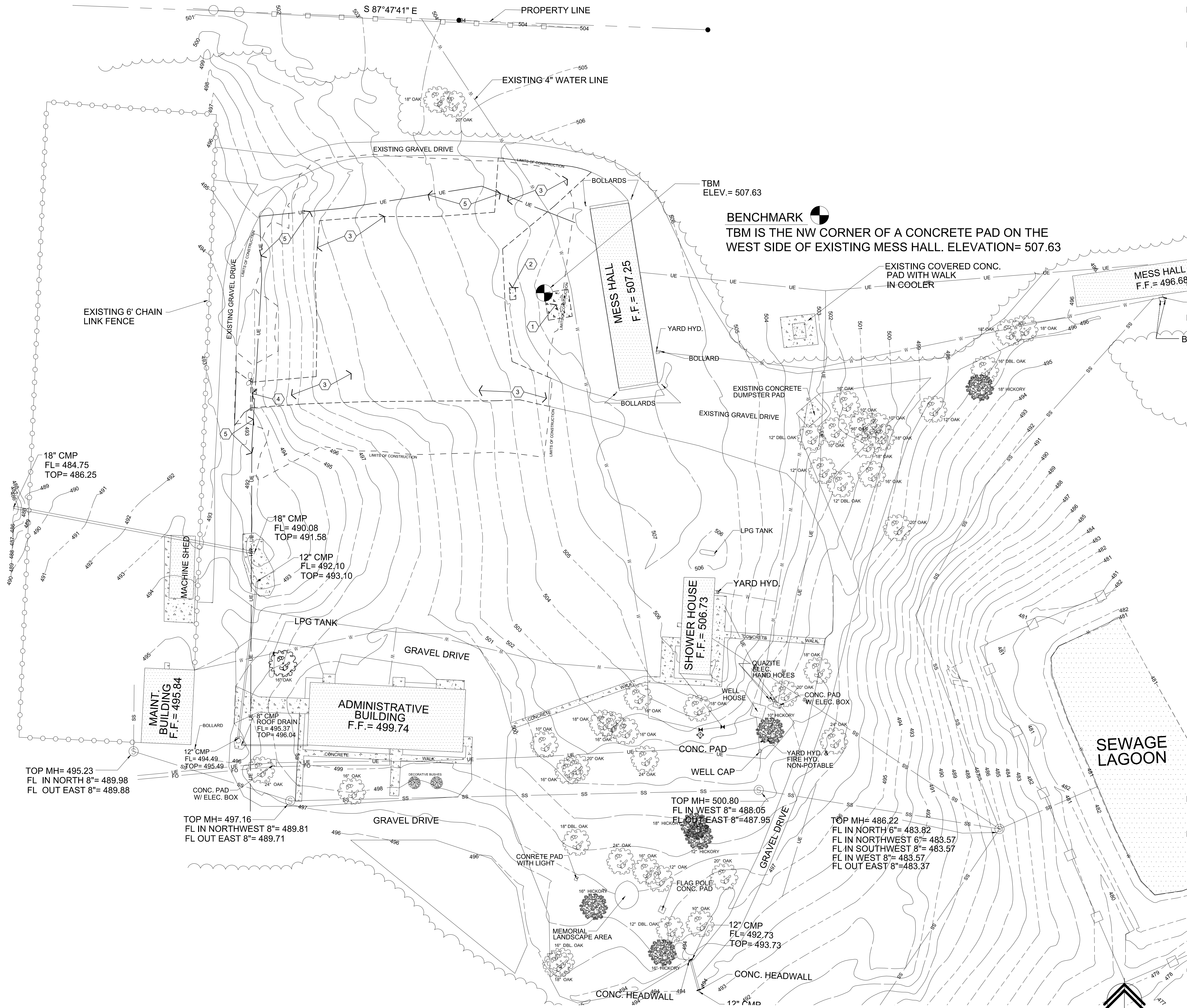
SHEET NUMBER:

**C-101**

4 OF 36 SHEETS  
 07/29/2022







### GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) SITE CONDITIONS BASED UPON SURVEY. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.
- (C) EXISTING CONSTRUCTION TO REMAIN TO BE PROTECTED AS REQUIRED. REPLACE AND/OR REPAIR EXISTING CONSTRUCTION DAMAGED DUE TO CONTRACTOR ACTIVITIES.
- (D) PROVIDE SITE CLEARING AND PREPARATION, INCLUDING TOPSOIL STRIPPING AND STOCKPILING. COORDINATE LOCATIONS OF STOCKPILING AREAS WITH OWNER.
- (E) ALL DEMOLITION MATERIALS SHALL BECOME PROPERTY OF CONTRACTOR FOR PROPER DISPOSAL UNLESS OTHERWISE NOTED.
- (F) REFER TO SITE UTILITIES DRAWING FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- (G) EXISTING UNDERGROUND INSTALLATION SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS IS EXPRESSLY DISCLAIMED. GENERALLY SERVICE CONNECTIONS ARE NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCOVERY OF EXISTING UNDERGROUND INSTALLATIONS IN ADVANCE OF EXCAVATING OR TRENCHING BY CONTRACTING LOCAL UTILITIES.

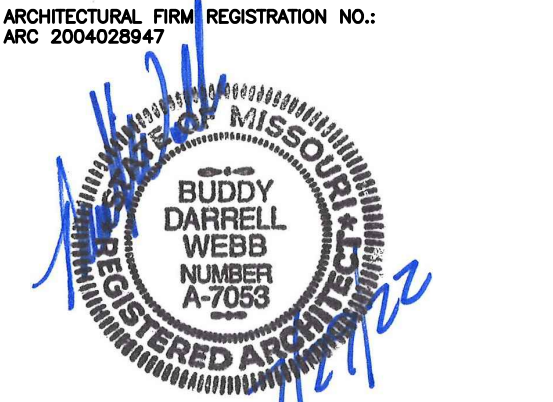
### KEY NOTES

- (1) ESTABLISH NEW TBM AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION. EXISTING CONCRETE PAD TO BE REMOVED.
- (2) EXISTING CONCRETE AND STONE MONUMENT TO BE RELOCATED BY OTHERS. EXISTING CONCRETE FOUNDATION AND CONCRETE PAD TO BE REMOVED.
- (3) EXISTING GRAVEL AREA TO BE REMOVED.
- (4) EXISTING DRAINAGE PIPE SYSTEM TO BE REMOVED.
- (5) EXISTING ELECTRICAL UTILITY TO BE REMOVED INSIDE LIMITS OF CONSTRUCTION OR TERMINATED AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION. FIELD VERIFY SCOPE OF WORK REQUIRED. COORDINATE ALL UTILITY WORK WITH INFRASTRUCTURE PROJECT T22-15-01 (BY OTHERS).

### SYMBOLS LEGEND

- NOTE: REFER TO SURVEY FOR EXISTING CONDITIONS SYMBOLS LEGEND.
- EXISTING CONDITIONS TO REMAIN.
  - - - EXISTING CONDITIONS TO BE REMOVED.

**CAUTION:**  
 INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.



SHEETS BEARING THIS SEAL ARE AUTHENTICATED. RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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WAPPAPELLO  
 TRAINING SITE  
 461 COUNTY ROAD 517  
 WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
 SITE # 6325  
 ASSET # 8136325016  
 BUILDING # 3

REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
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 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-C-102  
 DRAWN BY: BW-AP  
 CHECKED BY: BDW  
 DESIGNED BY: BW-AP

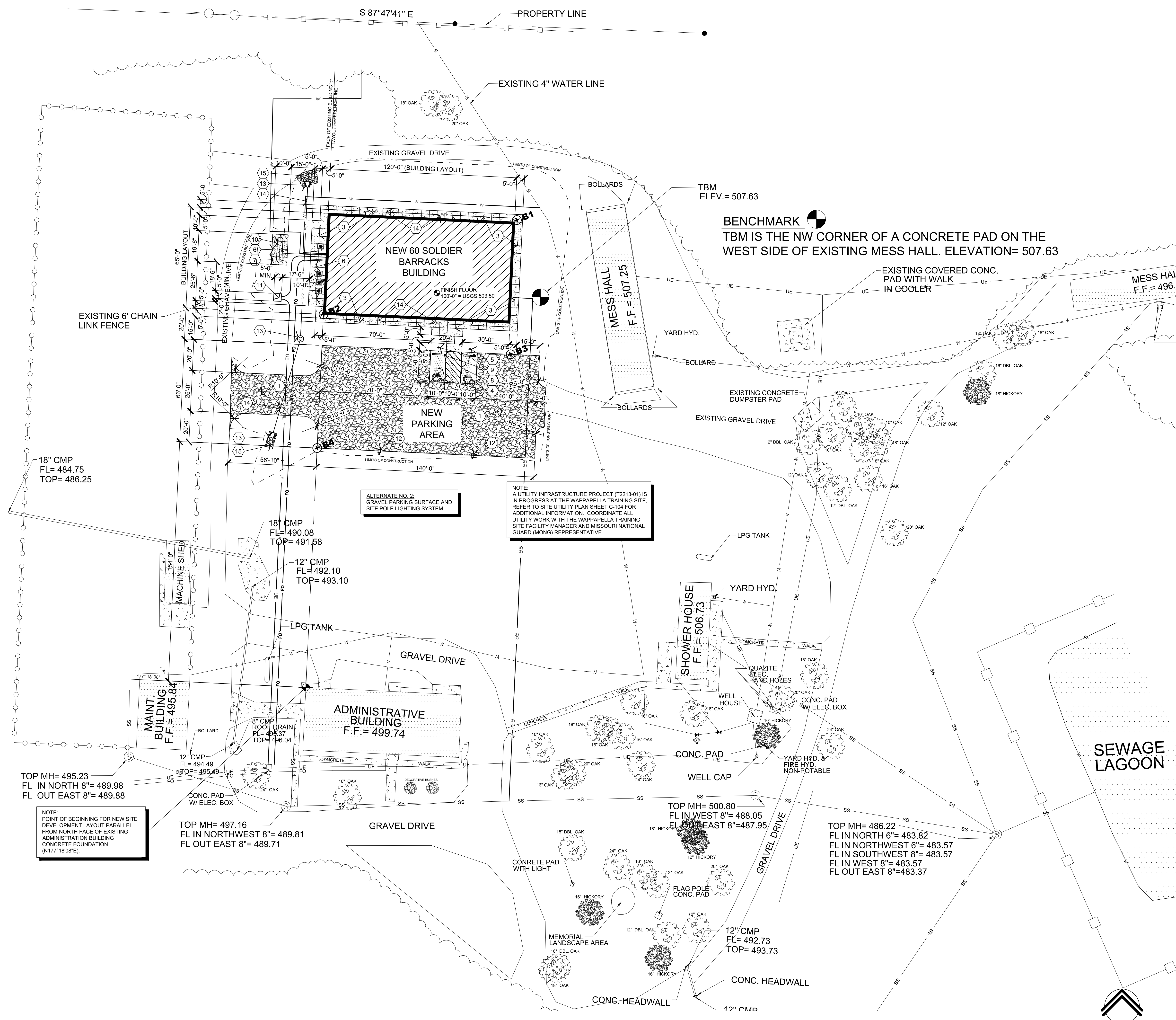
SHEET TITLE:  
**SITE DEMOLITION  
 PLAN**

SHEET NUMBER:

**C-102**

5 OF 36 SHEETS  
 07/29/2022





### GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) SITE CONDITIONS BASED UPON SURVEY. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.
- (C) SITE DIMENSIONS TO FACE OF CONCRETE FOUNDATION, SIDEWALK, CURB GUTTER LINE, PROPERTY LINE, OR CENTER LINE OF STRIPING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT DIMENSIONS.
- (D) LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO BE PROVIDED WITH 4" APPROVED TOPSOIL, FINE GRADED, AND SEED. PROVIDE EROSION CONTROL FABRIC EXTENDING 48" MINIMUM BEYOND EACH SIDE OF CENTERLINE OF DRAINAGE CHANNELS AND WHERE GRADE SLOPES 4:12 OR GREATER. REFER TO SITE GRADING PLAN FOR ADDITIONAL REQUIREMENTS.
- (E) COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- (F) CONTRACTOR TO COORDINATE AND SCHEDULE DESIGNATED PARKING AND STAGING AREAS WITH OWNER.

### KEY NOTES

- (1) (BASE BID) EXPOSED COMPACTED SUBGRADE. (ALTERNATE NO. 2) VEHICLE GRAVEL OVER COMPACTED SUBGRADE. REFER TO DETAIL 1/C-501.
- (2) CONCRETE PAVEMENT. REFER TO DETAIL 2/C-501. ACCESSIBLE PARKING SPACE WITH ACCESS AISLE (ADA COMPLIANT) TO SLOPE 2% MAXIMUM IN ALL DIRECTIONS.
- (3) CONCRETE SIDEWALK. REFER TO DETAIL 3/C-501. PROVIDE #3 X 1'-6" DOWELS AT 24" O.C. EXTENDING 6" MINIMUM INTO EXISTING FOUNDATION OR EXISTING SIDEWALK WITH EPOXY.
- (4) ACCESSIBLE PARKING PAVEMENT STRIPPING SYMBOL. REFER TO DETAIL 4/C-501. ALIGN WITH END OF PARKING SPACE.
- (5) ACCESSIBLE PARKING SIGN. REFER TO DETAIL 5/C-501.
- (6) STEEL BOLLARD. REFER TO DETAIL 6/C-501. INSTALL AT 5'-0" O.C. AT MECHANICAL CONDENSING UNITS (8 TOTAL) AND PROPANE TANK PAD (3 TOTAL).
- (7) CONCRETE SLAB WITH TURN DOWN PERIMETER EDGE AT UTILITY SUPPORT PAD. REFER TO DETAIL 7/C-501.
- (8) 4" WIDE PAVEMENT STRIPING AS SHOWN USING HIGHWAY MARKING PAINT - WHITE (2 COATS).
- (9) CONCRETE BUMPER BLOCK (8" W X 5" H X 6'-0" LONG) ANCHORED TO PAVING WITH (2) 1'-6" LONG #4 REBAR.
- (10) ABOVE GRADE PROPANE TANK. REFER TO SITE UTILITY PLAN.
- (11) GROUND MOUNTED ELECTRICAL TRANSFORMER. REFER TO INFRASTRUCTURE PROJECT T2213-01 (BY OTHERS), SITE UTILITY PLAN AND SITE ELECTRICAL DRAWINGS. FOR ADDITIONAL ELECTRICAL REQUIREMENTS. COORDINATE INSTALLATION WITH LOCAL UTILITY COMPANY REQUIREMENTS. NOTIFY ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH CONSTRUCTION DOCUMENTS AND LOCAL REQUIREMENTS.
- (12) (ALTERNATE NO. 2) PARKING LOT LIGHTING ON POLE. REFER TO ELECTRICAL DRAWINGS FOR TYPE AND CONSTRUCTION.
- (13) STORM WATER STRUCTURE. REFER TO GRADING PLAN FOR ADDITIONAL INFORMATION.
- (14) UNDERGROUND DOWNSPOUT COLLECTION SYSTEM. REFER TO SITE GRADING PLAN AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (15) GRAVEL RIP-RAP. REFER TO GRADING PLAN.

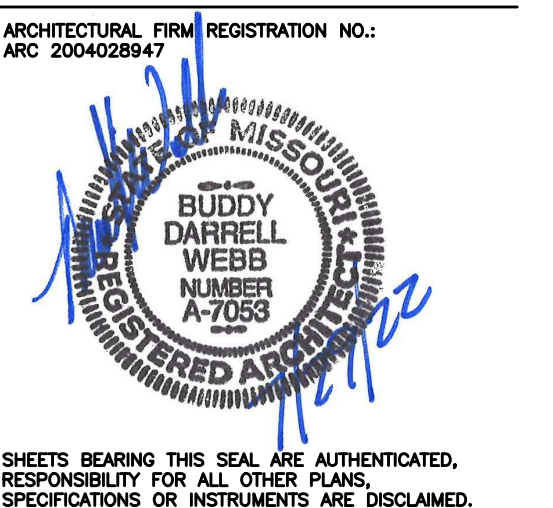
### SYMBOLS LEGEND

- NOTE: REFER TO SURVEY FOR EXISTING CONDITIONS SYMBOLS LEGEND.
- NEW BUILDING CONSTRUCTION
  - NEW AREA OF CONCRETE PAVING
  - NEW AREA OF CONCRETE SIDEWALK
  - NEW DRIVE GRAVEL RIP-RAP AREA
  - NEW AREA OF CONCRETE PAVING
  - NEW LIGHT POLE
  - BORING LOCATION - REFER TO GEOTECHNICAL REPORT

**CAUTION:** INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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**Architects - Consultants**  
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SPRINGFIELD, MISSOURI 65802  
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OFFICE OF ADMINISTRATION  
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DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-C-103  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

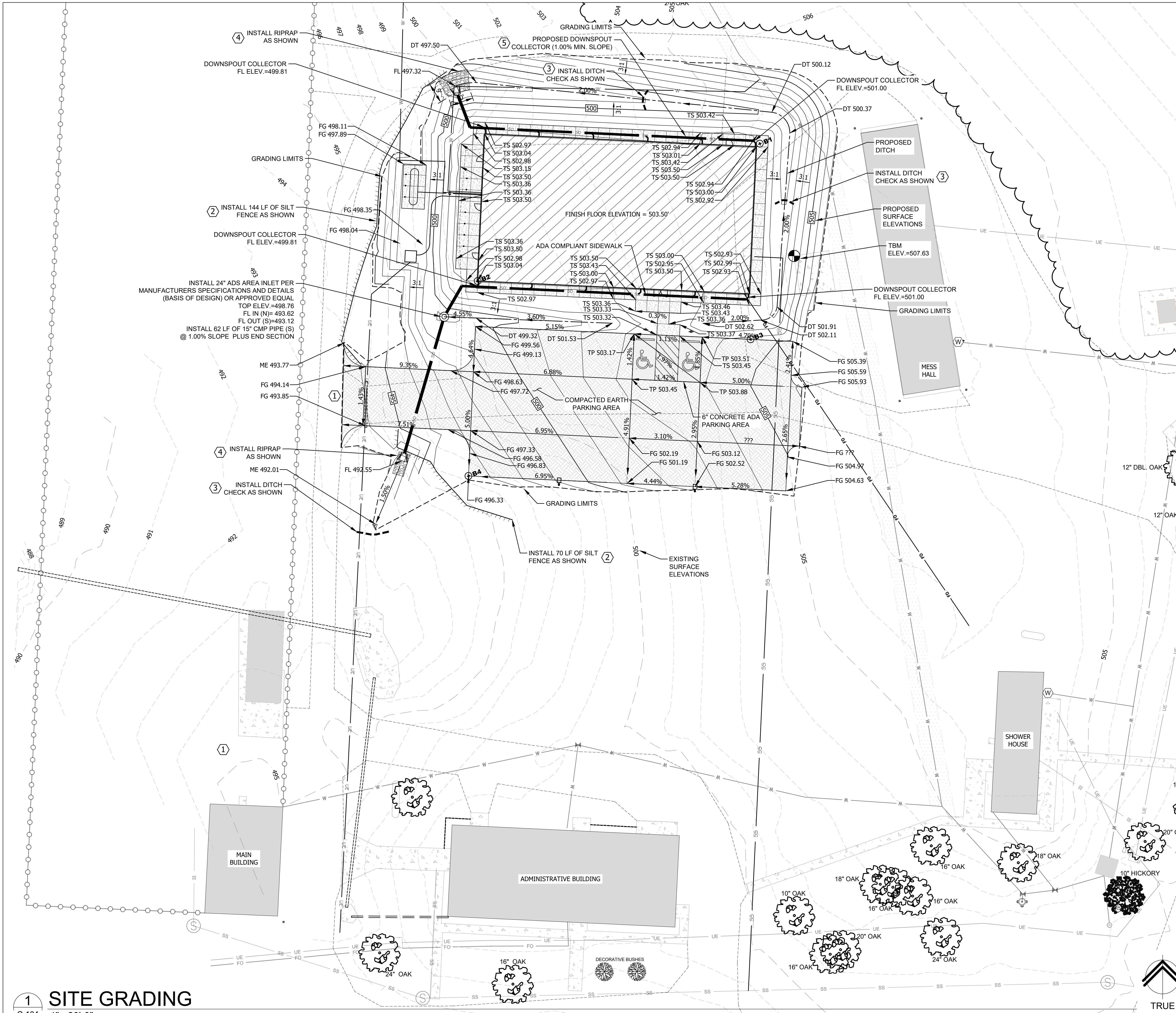
SHEET TITLE:  
**SITE DEVELOPMENT  
PLAN (ALTERNATE  
NO. 2)**

SHEET NUMBER:

**C-103**

6 OF 36 SHEETS  
07/29/2022





### GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS
- (B) FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. NOTIFY ENGINEER IF EXISTING CONDITIONS REQUIRE REVISED FINISH FLOOR ELEVATION TO PROVIDE PROPER DRAINAGE.
- (C) COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS
- (D) HANDICAP ACCESSIBLE PARKING AREAS TO SLOPE 2% MAXIMUM IN ALL DIRECTIONS. DESIGNATED ACCESSIBLE ROUTES TO SLOPE 5% MAXIMUM IN DIRECTION OF TRAFFIC WITH A 2% MAXIMUM CROSS SLOPE.
- (E) REFER TO SHEET C-502 FOR EROSION CONTROL AND MAINTENANCE PLAN NOTES

### KEY NOTES

- (1) CONSTRUCTION ENTRANCE, REFER TO DETAIL ON C-502.
- (2) SILT FENCE, REFER TO DETAIL ON C-502.
- (3) DITCH CHECKS, REFER TO DETAIL ON C-502.
- (4) 10' X 5' RIPRAP PAD, REFER TO DETAIL ON C-502.
- (5) INSTALL 138 LF OF 8" DOWNSPOUT COLLECTION SYSTEM AT MIN. 0.5% SLOPE, REFER TO DETAIL ON C-502.

### SITE EXCAVATION REQUIREMENTS

- (A) A GEOTECHNICAL INVESTIGATION WAS CONDUCTED WITHIN THIS DEVELOPMENT. A GEOTECHNICAL INVESTIGATION REPORT WAS ISSUED SEPTEMBER 23, 2021, SMITH & CO. PROJECT NUMBER P210186 THIS GEOTECHNICAL INVESTIGATION REPORT SHOULD BE CONSIDERED AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. CONTRACTORS WILL BE RESPONSIBLE FOR OBTAINING, REVIEWING, AND UNDERSTANDING THE GEOTECHNICAL INVESTIGATION REPORT. CONTRACTORS WILL BE EXPECTED TO FOLLOW THE RECOMMENDATIONS MADE WITHIN THE GEOTECHNICAL INVESTIGATION REPORT AND THE NOTES AND DETAILS OF THE DRAWINGS, WHICHEVER IS MOST STRINGENT.
  - (B) IF MORE THAN ONE ACRE IS BEING DISTURBED THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A LAND DISTURBANCE PERMIT FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES. REFER TO SECTION 01 57 00 OF THE SPECIFICATIONS.
  - (C) MASS EARTH EXCAVATION QUANTITIES:  
BASE BID = 1320 CY  
MASS BACKFILL (FILL VMF 15%) QUANTITIES:  
BASE BID = 363 CY  
EXCAVATION HAULING AND DISPOSAL QUANTITIES:  
BASE BID = 957 CY (NET) OF CUT
- TEMPORARY BENCHMARK  
TBM IS THE NW CORNER OF A CONCRETE PAD ON THE WEST SIDE OF EXISTING MESS HALL. ELEVATION=507.63

### SYMBOLS LEGEND

- NEW BUILDING CONSTRUCTION
  - NEW AREA OF CONCRETE SIDEWALK
  - NEW DRIVE GRAVEL AREA (ALTERNATE)
  - B1 BORE HOLE
  - TEMPORARY BENCHMARK
  - DITCH CHECK
  - SILT FENCE
  - TP = TOP OF PAVEMENT
  - TS = TOP OF SIDEWALK
  - FG = FINISHED GRADE
  - DT = BOTTOM OF DITCH
  - ME = MATCH EXISTING
- CAUTION**  
INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

STATE OF MISSOURI  
MICHAEL L. PARSON  
GOVERNOR



**Bartlett & West**  
1801 W. NORTON RD., SUITE 300A - SPRINGFIELD, MO 65803  
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
www.bartlettwest.com

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PROJECT # T2124-01  
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ASSET # 8136325016  
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DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE:  
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DESIGNED BY: PAB  
DRAWN BY: PAB  
APPROVED BY: NSB

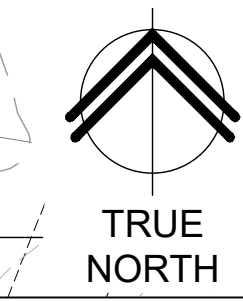
SHEET TITLE:

SITE GRADING /  
EROSION CONTROL

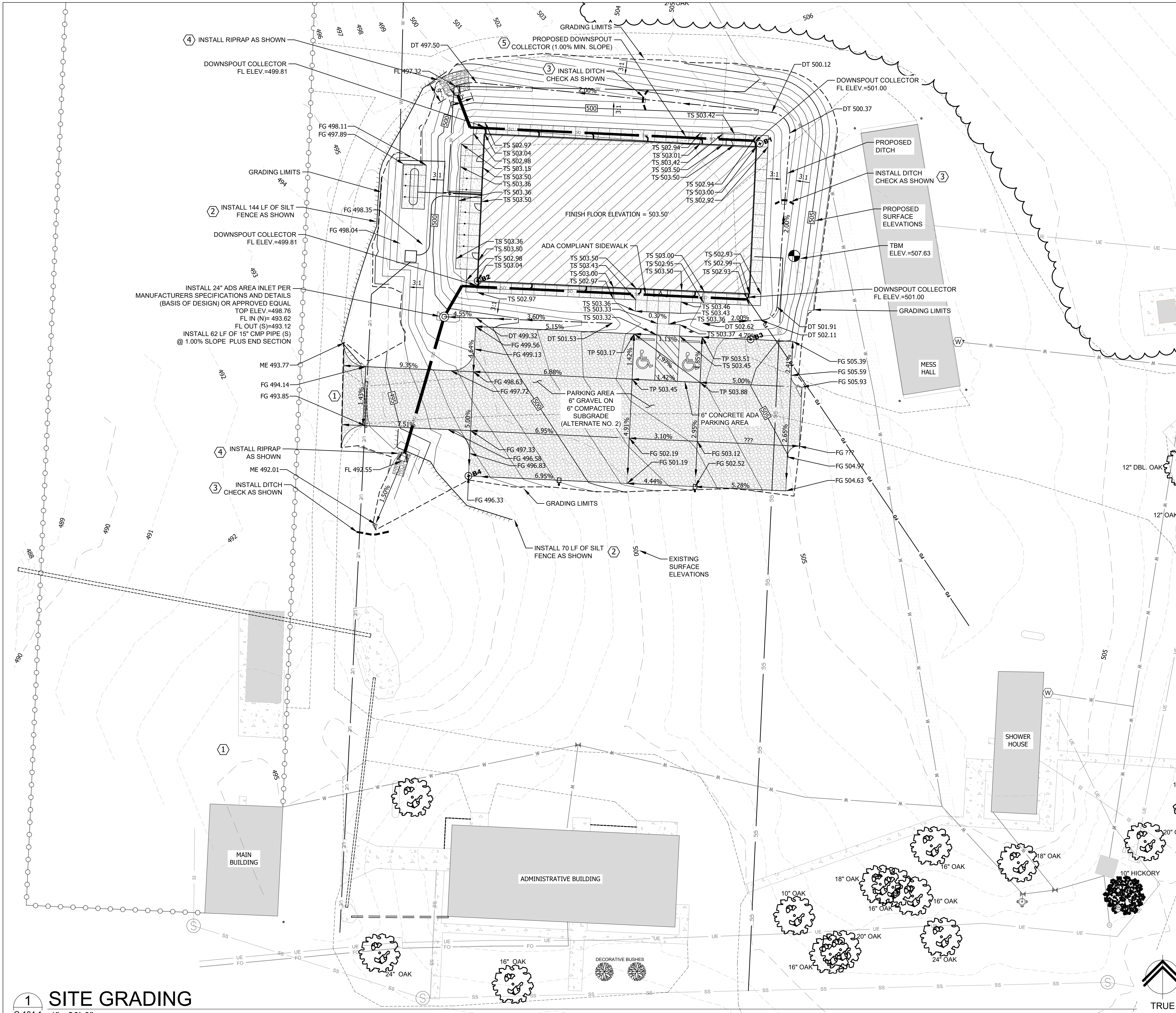
SHEET NUMBER:

**C-104**

7 of 36 SHEETS  
07/29/2022







**1 SITE GRADING**  
C-104.1 1" = 20'-0"

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS
- (B) FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. NOTIFY ENGINEER IF EXISTING CONDITIONS REQUIRE REVISED FINISH FLOOR ELEVATION TO PROVIDE PROPER DRAINAGE.
- (C) COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS
- (D) HANDICAP ACCESSIBLE PARKING AREAS TO SLOPE 2% MAXIMUM IN ALL DIRECTIONS. DESIGNATED ACCESSIBLE ROUTES TO SLOPE 5% MAXIMUM IN DIRECTION OF TRAFFIC WITH A 2% MAXIMUM CROSS SLOPE.
- (E) REFER TO SHEET C-502 FOR EROSION CONTROL AND MAINTENANCE PLAN NOTES

**KEY NOTES**

- (1) CONSTRUCTION ENTRANCE, REFER TO DETAIL ON C-502.
- (2) SILT FENCE, REFER TO DETAIL ON C-502.
- (3) DITCH CHECKS, REFER TO DETAIL ON C-502.
- (4) 10' X 5' RIPRAP PAD, REFER TO DETAIL ON C-502.
- (5) INSTALL 138 LF OF 8" DOWNSPOUT COLLECTION SYSTEM AT MIN. 0.5% SLOPE, REFER TO DETAIL ON C-502.

**SITE EXCAVATION REQUIREMENTS**

A GEOTECHNICAL INVESTIGATION WAS CONDUCTED WITHIN THIS DEVELOPMENT. A GEOTECHNICAL INVESTIGATION REPORT WAS ISSUED SEPTEMBER 23, 2021, SMITH & CO. PROJECT NUMBER P210186. THIS GEOTECHNICAL INVESTIGATION REPORT SHOULD BE CONSIDERED AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. CONTRACTORS WILL BE RESPONSIBLE FOR OBTAINING, REVIEWING, AND UNDERSTANDING THE GEOTECHNICAL INVESTIGATION REPORT. CONTRACTORS WILL BE EXPECTED TO FOLLOW THE RECOMMENDATIONS MADE WITHIN THE GEOTECHNICAL INVESTIGATION REPORT AND THE NOTES AND DETAILS OF THE DRAWINGS, WHICHEVER IS MOST STRINGENT.

IF MORE THAN ONE ACRE IS BEING DISTURBED THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A LAND DISTURBANCE PERMIT FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES. REFER TO SECTION 01 57 00 OF THE SPECIFICATIONS.

- (A) MASS EARTH EXCAVATION (CUT) QUANTITIES (ALTERNATE NO. 1):  
BASE BID = 1427 CY
- (B) MASS BACKFILL (FILL VMF 15%) QUANTITIES (ALTERNATE NO. 1):  
BASE BID = 278 CY
- (C) EXCAVATION HAULING AND DISPOSAL QUANTITIES (NET) (ALTERNATE NO. 1):  
BASE BID = 1149 CY OF CUT

**TEMPORARY BENCHMARK**  
TBM IS THE NW CORNER OF A CONCRETE PAD ON THE WEST SIDE OF EXISTING MESS HALL. ELEVATION=507.63

**SYMBOLS LEGEND**

- NEW BUILDING CONSTRUCTION
- NEW AREA OF CONCRETE SIDEWALK
- NEW DRIVE GRAVEL AREA (ALTERNATE)
- BORE HOLE
- TEMPORARY BENCHMARK
- DITCH CHECK
- SILT FENCE
- TP = TOP OF PAVEMENT
- TS = TOP OF SIDEWALK
- FG = FINISHED GRADE
- DT = BOTTOM OF DITCH
- ME = MATCH EXISTING
- CAUTION**  
INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.



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MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING #3

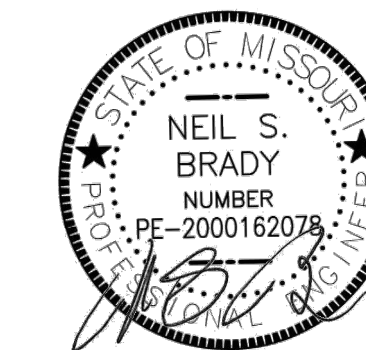
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DATE:  
ISSUE DATE: 07/29/2022

CAD DWG FILE:  
T2124-01-6325-8136325016\_C-104  
DESIGNED BY: PAB  
DRAWN BY: PAB  
APPROVED BY: NSB

SHEET TITLE:  
**SITE GRADING /  
EROSION CONTROL  
(ALTERNATE NO. 2)**

SHEET NUMBER:  
**C-104.1**





7/29/2022

**Bartlett & West**  
1801 W. NORTON RD., SUITE 300A - SPRINGFIELD, MO 65803  
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
www.bartlettwest.com

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CAD DWG FILE:  
T2124-01-6325-8136325016\_C-104  
DESIGNED BY: PAB  
DRAWN BY: PAB  
APPROVED BY: NSB

SHEET TITLE:  
SITE  
UTILITY  
PLAN

SHEET NUMBER:

**C-105**

9 of 36 SHEETS  
07/29/2022

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS
- (B) FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. NOTIFY ENGINEER IF EXISTING CONDITIONS REQUIRE REVISED FINISH FLOOR ELEVATION TO PROVIDE PROPER DRAINAGE.
- (C) COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS
- (D) REFER TO SHEET C-502 FOR UTILITY DETAILS

**UTILITY CONTACTS**

**SEWER:**  
MO NATIONAL GUARD WAPPAPELLO TRAINING SITE  
461 COUNTY ROAD 517, WAPPAPELLO MO

**WATER:**  
PUBLIC WATER SUPPLY DISTRICT 4, WAPPAPELLO MO  
HC 1 BOX 1147, WAPPAPELLO MO 63966  
573-222-7322

**ELECTRIC:**  
OZARK BORDER ELECTRIC COOPERATIVE  
MAIN LOCATION: 3281 S WESTWOOD, POPULAR BLUFF MO 63901  
573-785-4631

**GAS:**  
S.E. CO-OP SERVICES CO.  
HWY 51 SOUTH, PUXICO MO 63960  
573-222-3525

**FIBER OPTIC:**  
AT&T  
800-288-2020

**EXISTING  
CONDITIONS NOTES**

1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID, REFER TO SPECIFICATION ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

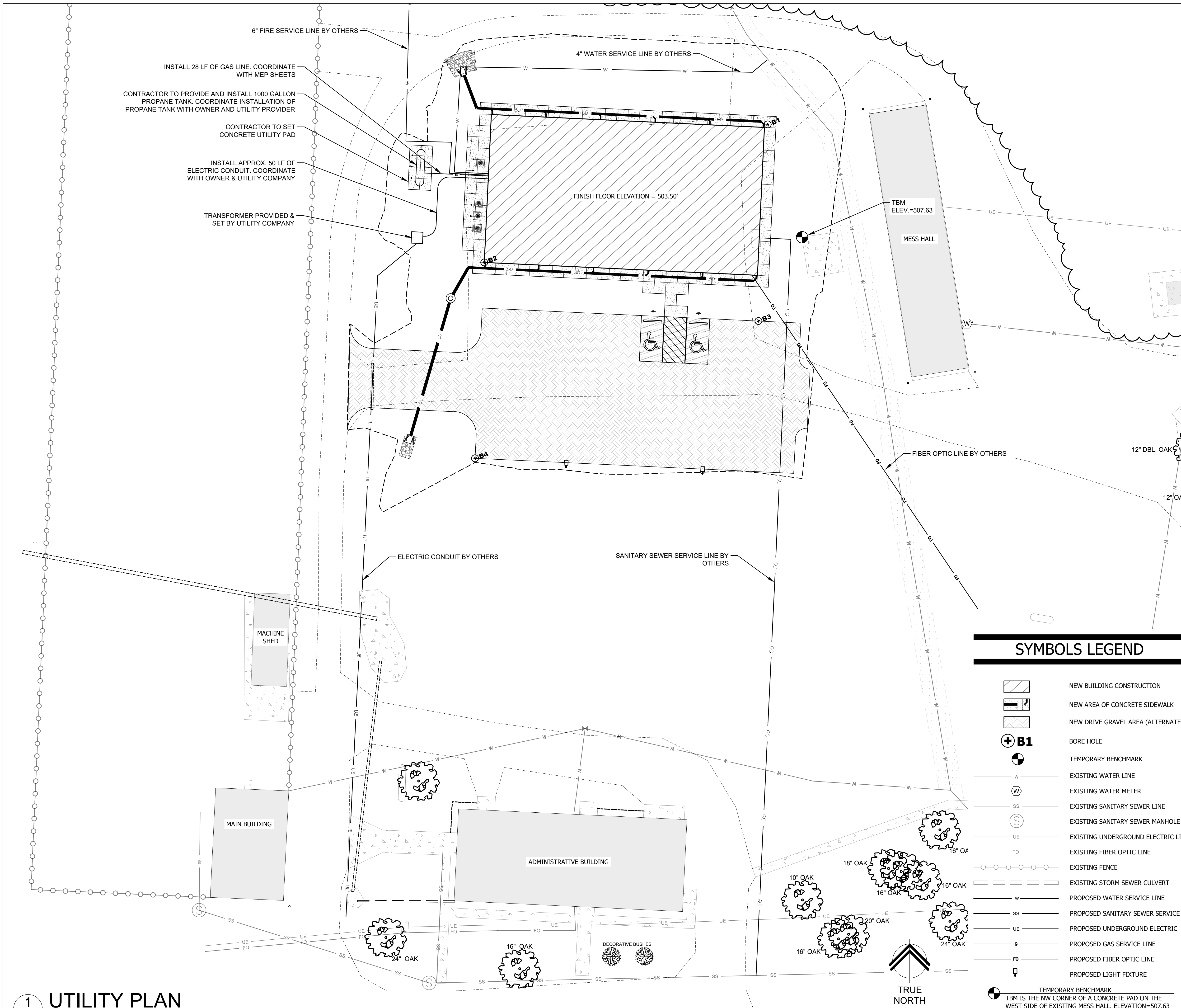
**SPECIAL NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURE REQUIRED BY UTILITY COMPANIES.
2. ANY BELOW-GRADE UTILITIES ENTERING THE BUILDING SHOULD HAVE CLAY STOPS PLACED AROUND THE UTILITY TO REDUCE WATER IN THE UTILITY TRENCH BACKFILL FROM ENTERING BELOW THE FOOTING AND/OR SLAB CAUSING SWELLING.
3. A UTILITY INFRASTRUCTURE PROJECT (T2213-01) IS IN PROGRESS AT THE WAPPAPELLA TRAINING SITE. COORDINATE ALL UTILITY WORK WITH THE WAPPAPELLA TRAINING SITE FACILITY MANAGER AND MISSOURI NATIONAL GUARD (MONG) REPRESENTATIVE.

**CAUTION**  
INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.



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

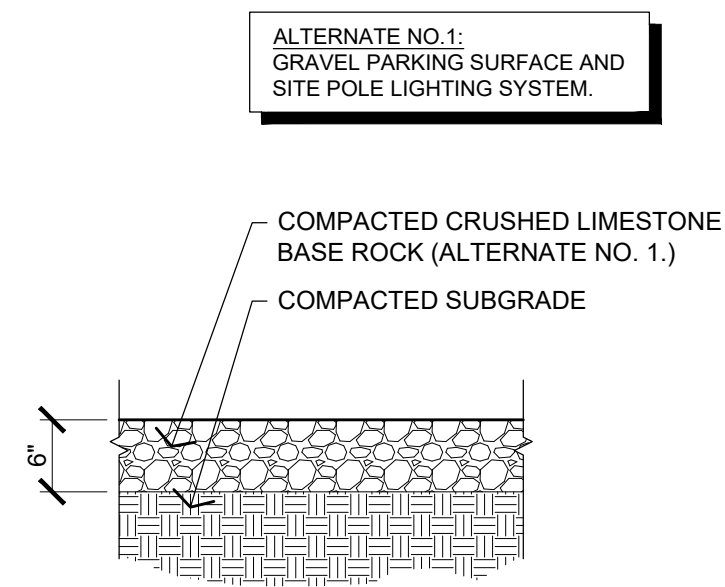


**SYMBOLS LEGEND**

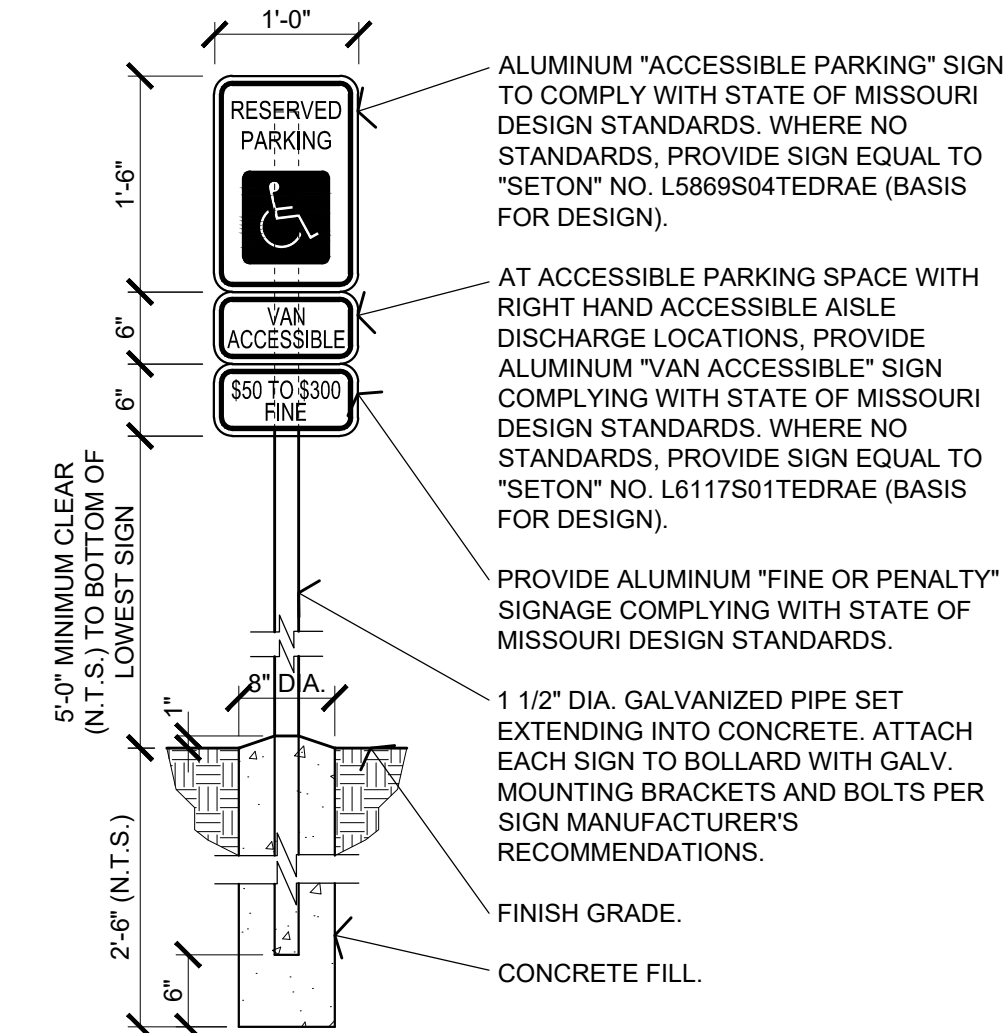
	NEW BUILDING CONSTRUCTION
	NEW AREA OF CONCRETE SIDEWALK
	NEW DRIVE GRAVEL AREA (ALTERNATE)
	BORE HOLE
	TEMPORARY BENCHMARK
	EXISTING WATER LINE
	EXISTING WATER METER
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING FIBER OPTIC LINE
	EXISTING FENCE
	EXISTING STORM SEWER CULVERT
	PROPOSED WATER SERVICE LINE
	PROPOSED SANITARY SEWER SERVICE LINE
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED GAS SERVICE LINE
	PROPOSED FIBER OPTIC LINE
	PROPOSED LIGHT FIXTURE
	TEMPORARY BENCHMARK

TBM IS THE NW CORNER OF A CONCRETE PAD ON THE WEST SIDE OF EXISTING MESS HALL. ELEVATION=507.63

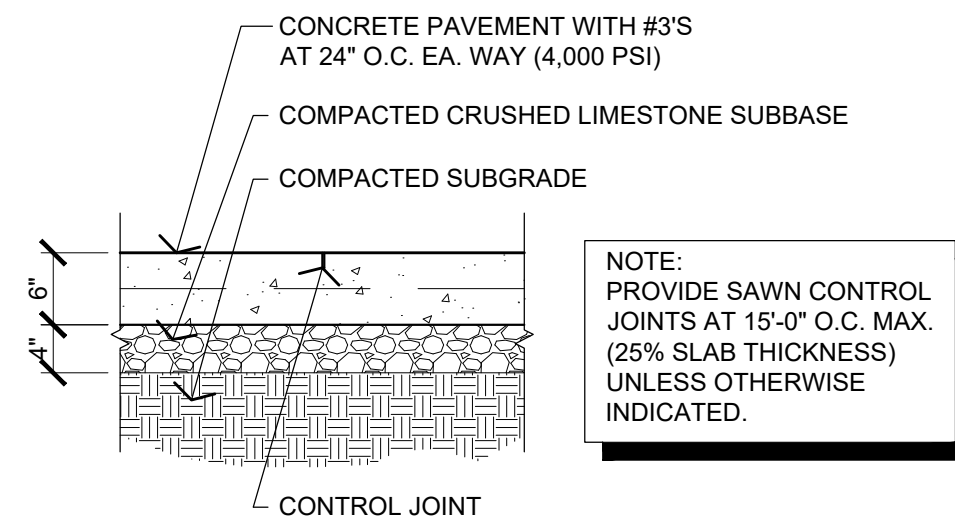




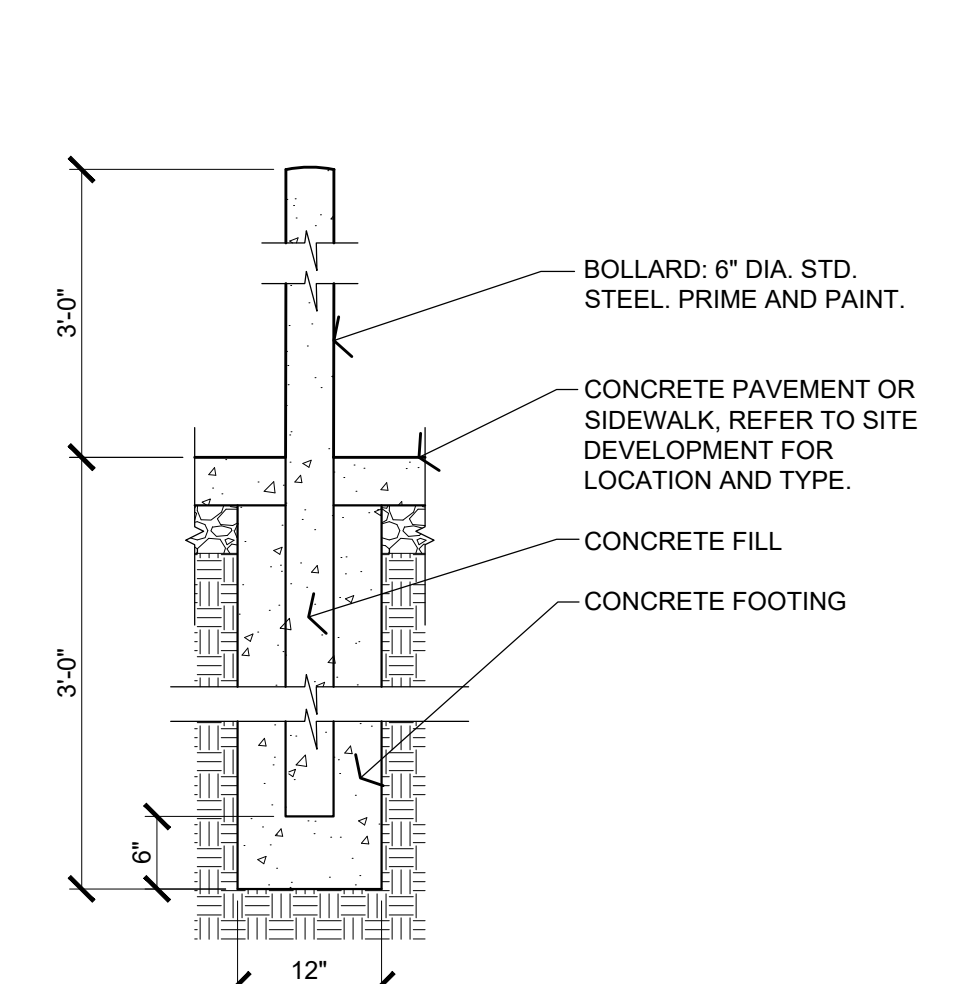
**1**  
C-501  
**VEHICLE GRAVEL AREAS SECTION**  
3/4" = 1'-0"



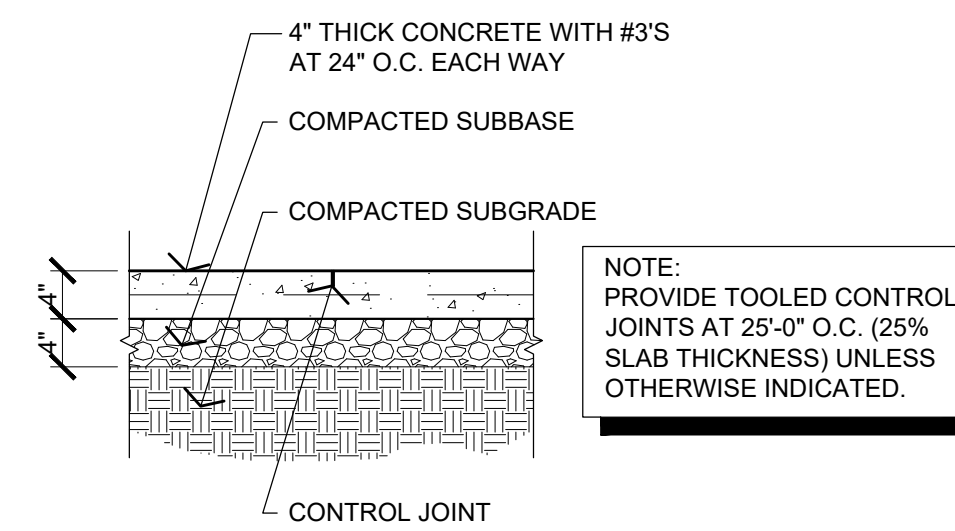
**5**  
C-501  
**ACCESSIBLE PARKING SIGN DETAIL**  
3/4" = 1'-0"



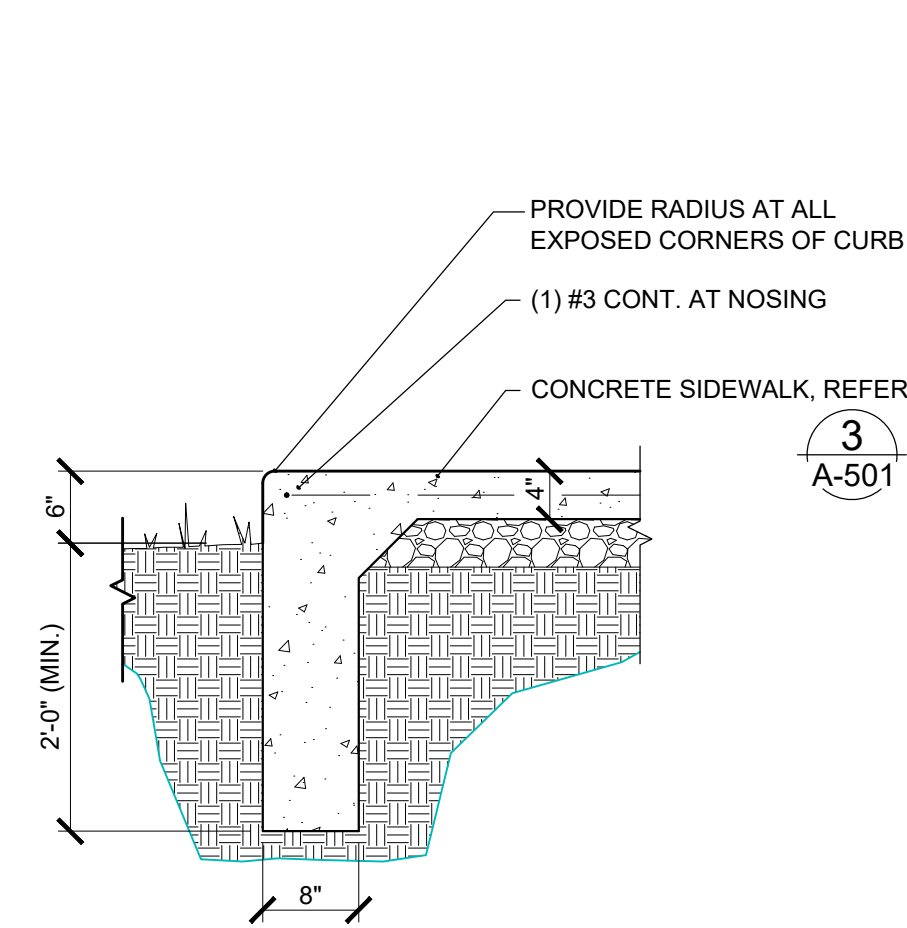
**2**  
C-501  
**CONCRETE PAVING SECTION**  
3/4" = 1'-0"



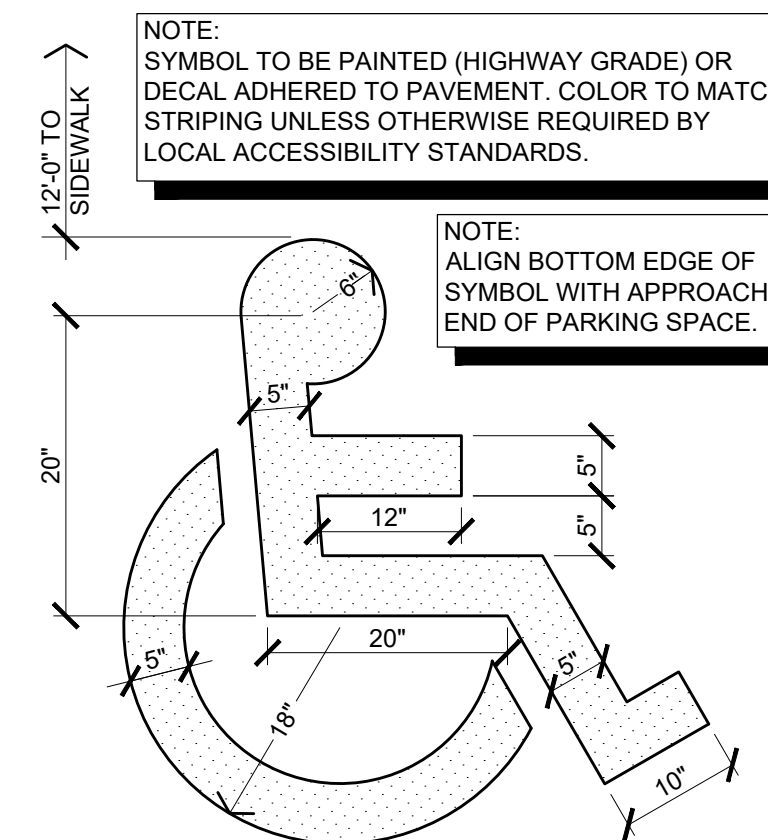
**6**  
C-501  
**STEEL BOLLARD SECTION**  
3/4" = 1'-0"



**3**  
C-501  
**CONCRETE SIDEWALK SECTION**  
3/4" = 1'-0"



**7**  
C-501  
**CONCRETE SIDEWALK EDGE SECTION**  
3/4" = 1'-0"



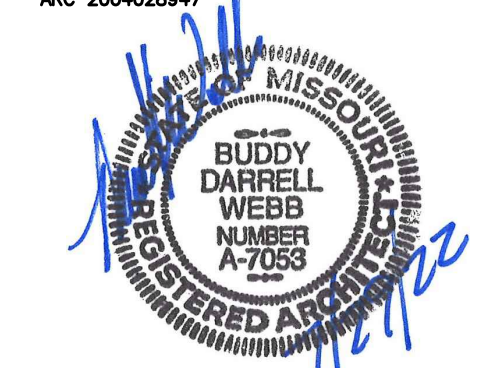
**4**  
C-501  
**ACCESSIBLE PARKING SYMBOL DETAIL**  
NOT TO SCALE

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO SITE DEVELOPMENT PLANS FOR LAYOUT AND LOCATIONS OF CONSTRUCTION.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

ARCHITECTURAL FIRM REGISTRATION NO.:  
ARC 2004228947



SHEETS BEARING THIS SEAL ARE AUTHENTICATED,  
RESPONSIBILITY FOR ALL OTHER PLANS,  
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

**Buddy Webb & Company, Inc.**  
**Architects - Consultants**  
3057 EAST CAIRO STREET  
SPRINGFIELD, MISSOURI 65802  
(417) 877-1385 TELEPHONE

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ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-C-501  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:

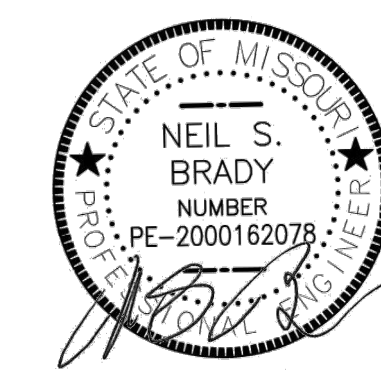
**SITE  
DEVELOPMENT  
DETAILS**

SHEET NUMBER:

**C-501**

10 OF 36 SHEETS  
07/29/2022





7/29/2022

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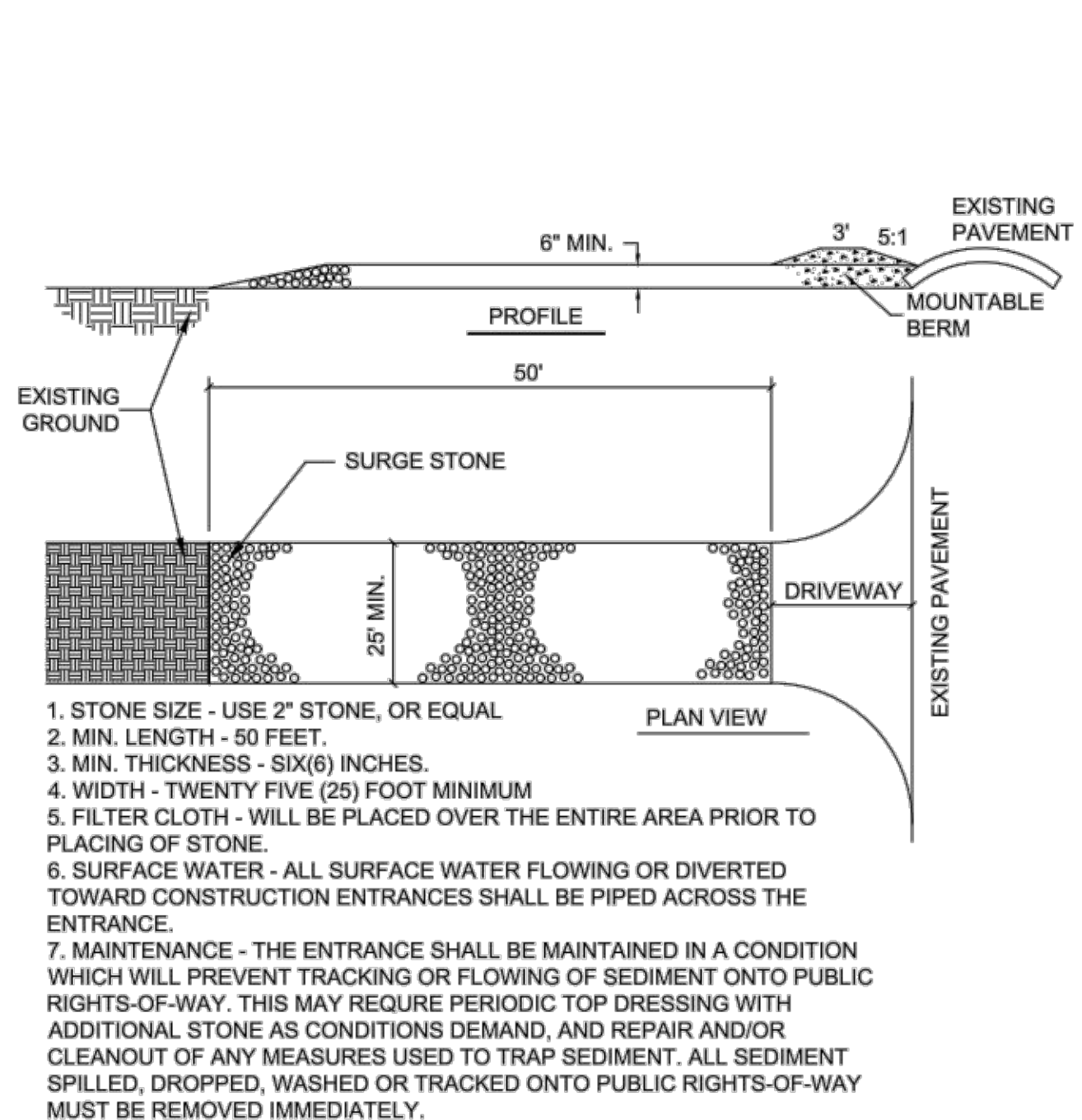
SHEET TITLE:

MISCELLANEOUS  
SITE DETAILS

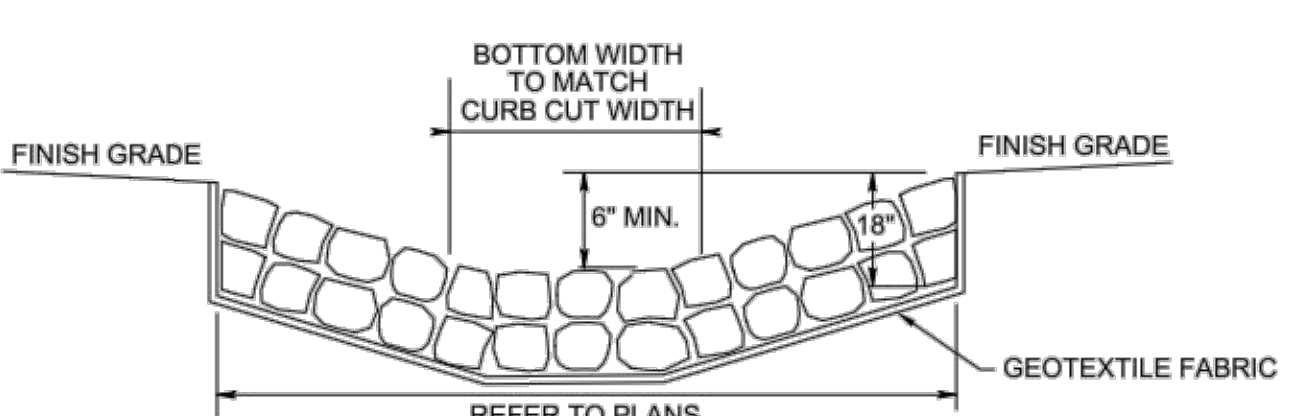
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11 of 36 SHEETS  
07/29/2022

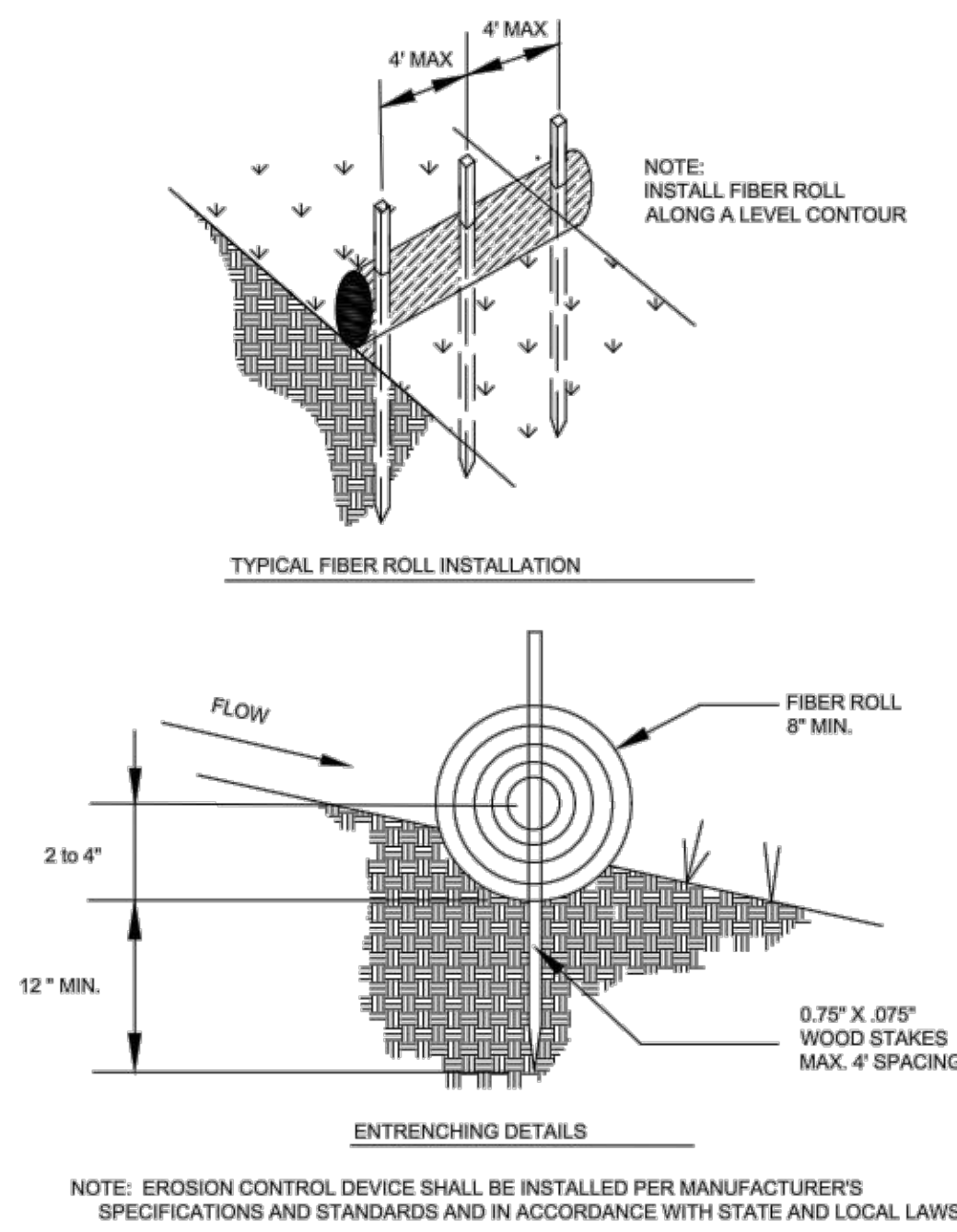


**1 CONSTRUCTION ENTRANCE**  
C502 SCALE: NOT TO SCALE

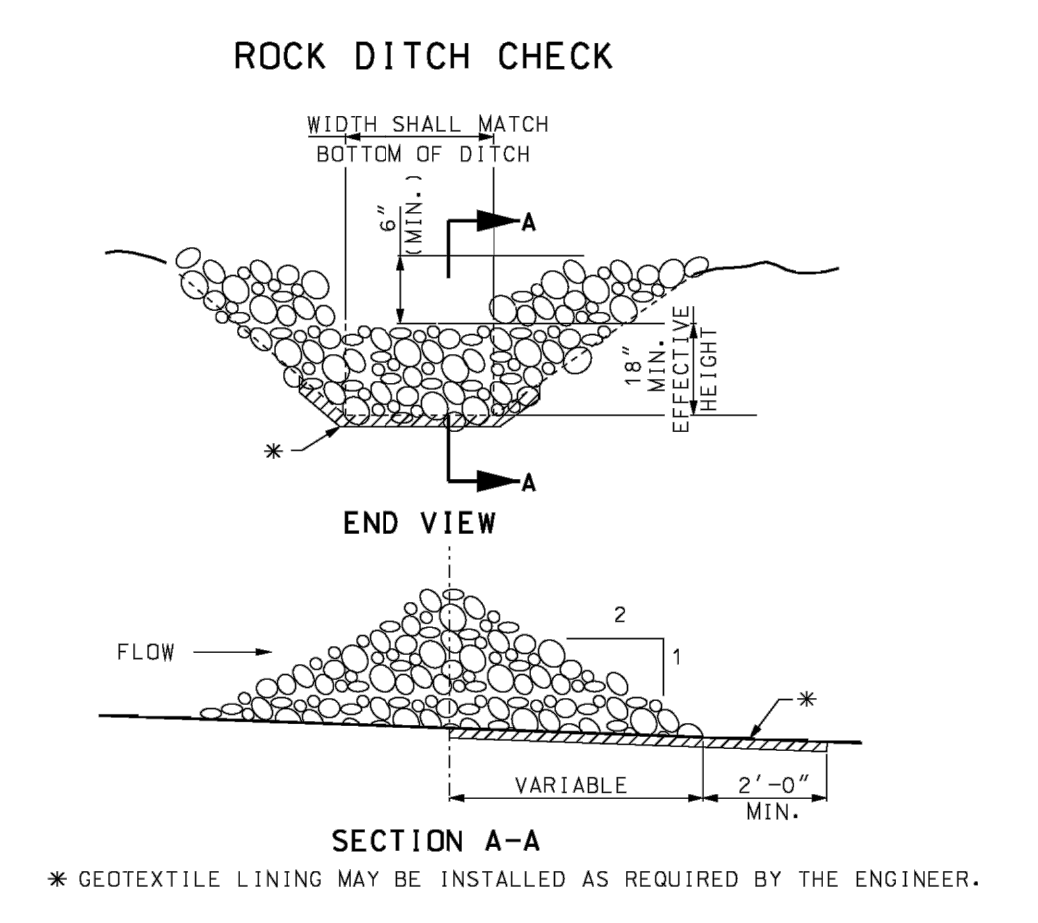


- NOTES:
- HAND PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN.
  - THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL.
  - THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED.
  - ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 50-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH.
  - STONES SHALL BE A MINIMUM OF 12" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.
  - RIPRAP PAD SHALL HAVE NO SLOPE FOR THE LENGTH OF THE RIPRAP PAD.
  - FINISHED GRADE ADJACENT TO THE RIPRAP PAD SHALL BE A MINIMUM OF 6" ABOVE THE RIPRAP PAD BOTTOM.

**4 RIPRAP PAD**  
C502 SCALE: NOT TO SCALE



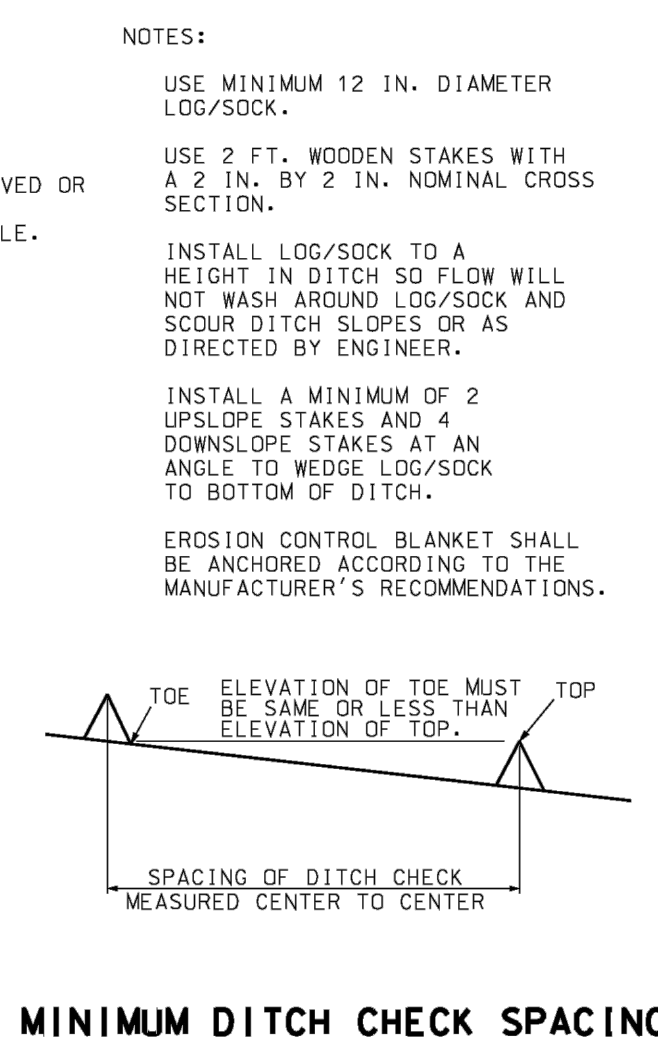
**2 FIBER ROLLS AND SOCKS**  
C502 SCALE: NOT TO SCALE



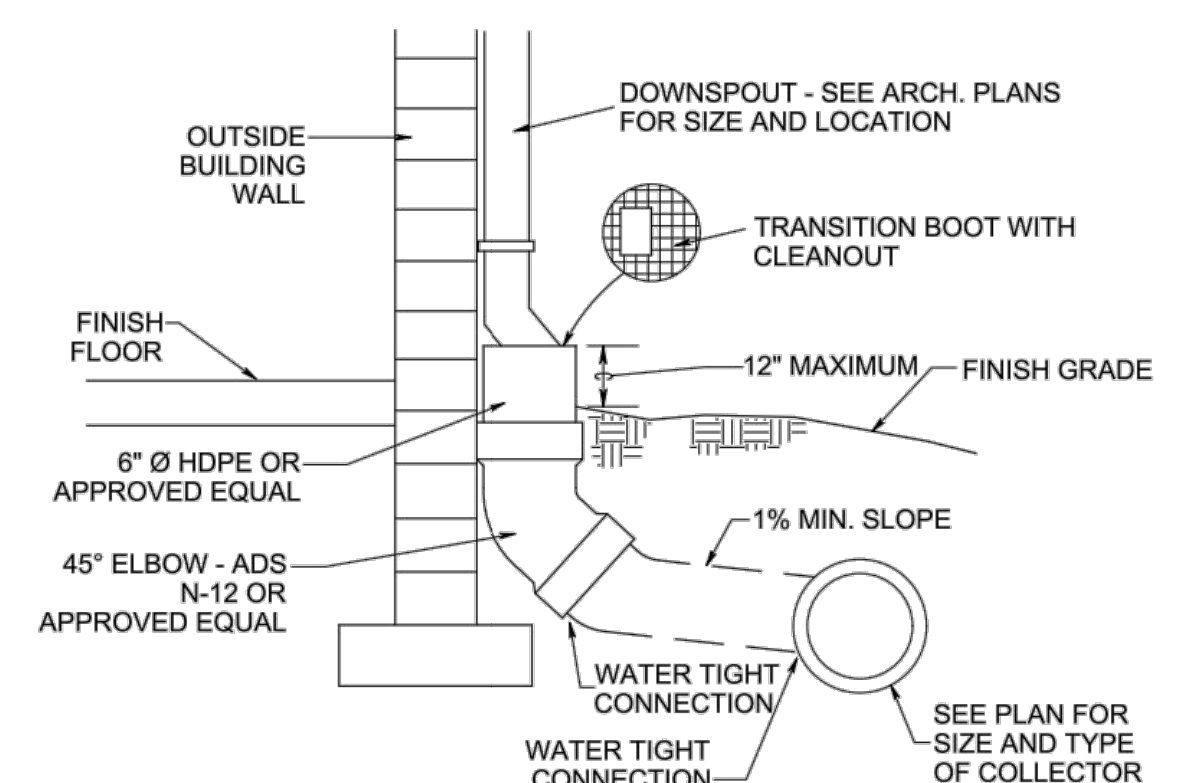
**3 ROCK DITCH CHECK**  
C502 SCALE: NOT TO SCALE

EXAMPLE DITCH CHECK SPACING FOR STANDARD HEIGHTS (F.T.)

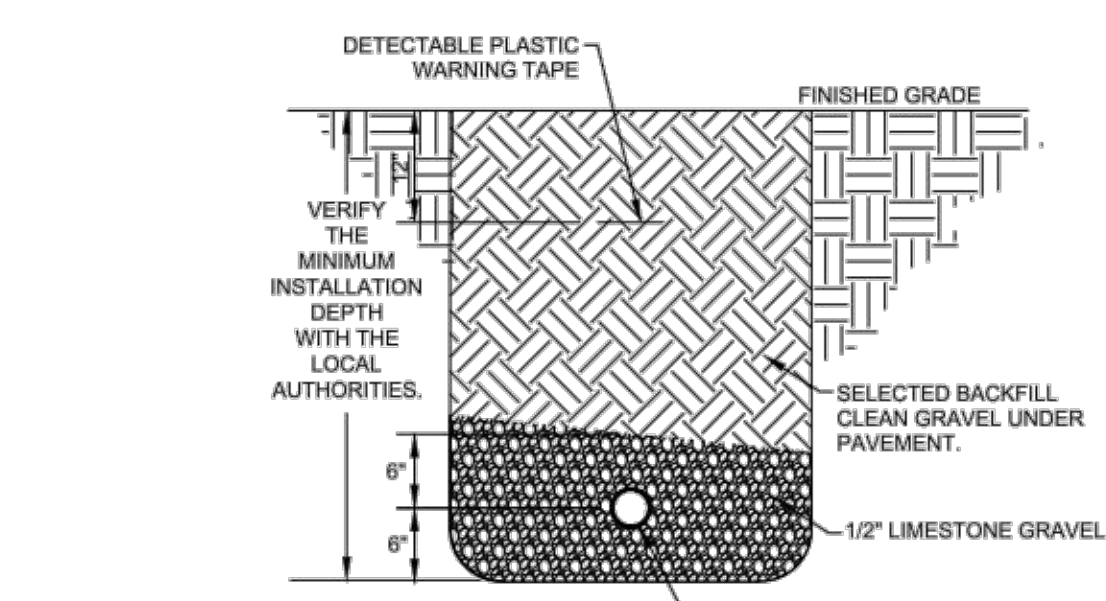
DITCH SLOPE %	SPACING FOR 9" EFF. HEIGHT	SPACING FOR 18" EFF. HEIGHT
0.5	150	300
1.0	75	150
1.5	50	100
2.0	37	75
2.5	30	60
3.0	25	50
3.5	21	43
4.0	19	38
4.5	16	33
5.0	15	30
5.5	13	27
6.0	12	25
6.5	11	23
7.0	10	21
7.5	10	20
8.0	9	19
8.5	9	18
9.0	8	17
9.5	8	16
10.0	7	15



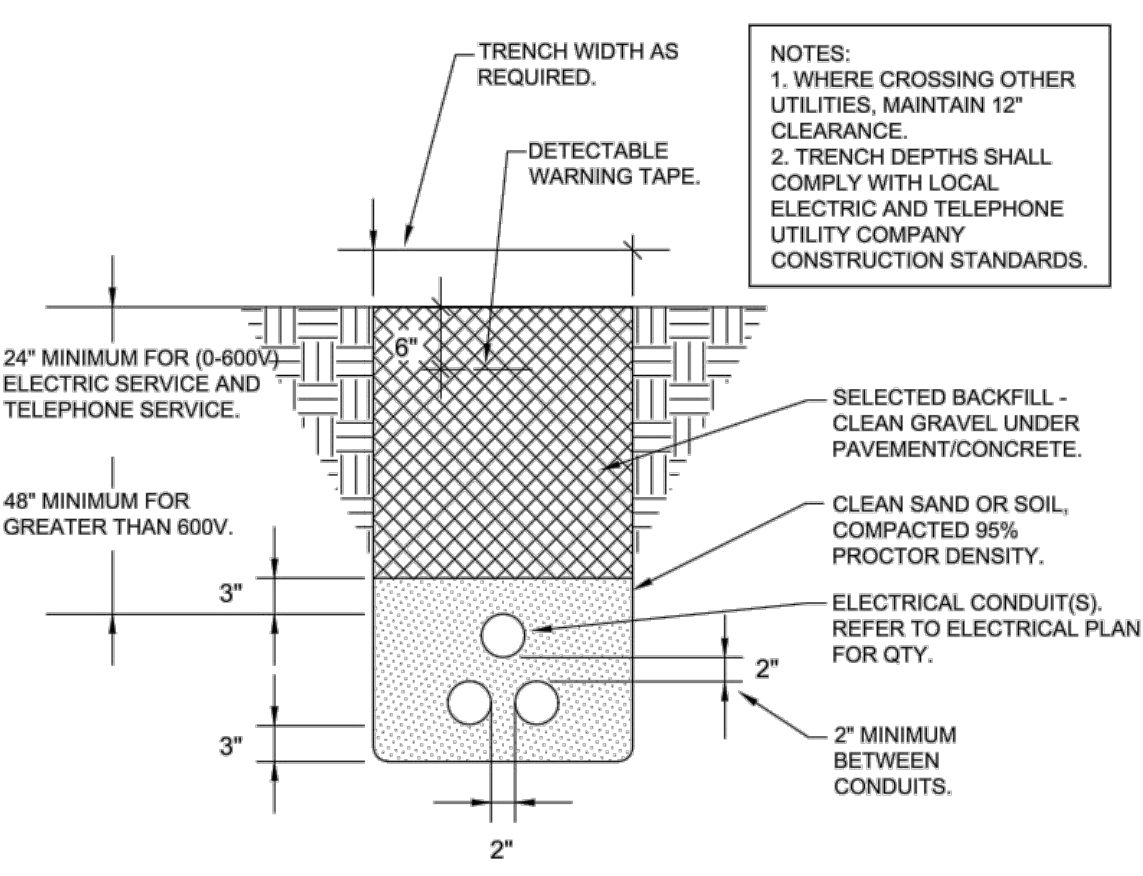
MINIMUM DITCH CHECK SPACING



**5 DOWNSPOUT COLLECTOR**  
C502 SCALE: NOT TO SCALE



**6 PIPE INSTALLATION DETAIL**  
C502 SCALE: NOT TO SCALE



**7 UNDERGROUND ELECTRICAL CONDUITS**  
C502 SCALE: NOT TO SCALE

**EROSION CONTROL & MAINTENANCE PLAN NOTES:**

- CONTRACTOR TO RETAIN FLOATALE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
- PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAIN WHEN THE DISTURBED STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
- CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE EFFECTIVE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
- INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
- CARE SHALL BE TAKEN TO ELIMINATE TO THE MAXIMUM EXTENT POSSIBLE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY AFTER EACH STORM TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. CARE NEEDS TO BE TAKEN TO AVOID UNDERMINING THE FENCE WHEN REMOVING SEDIMENT. SEDIMENT IS TO BE REAPPLIED TO THE SITE AND STABILIZED.
- ALL GRASS SLOPES WHICH EXCEED 8:1 (H:V) AND SELECT PIPE OUTFALLS SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.
- CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARD GENERAL CONDITIONS AND TECHNICAL SPECIFICATION FOR CONSTRUCTION FOR THE STATE OF MISSOURI.
- APPLICABLE PERMITS MUST BE OBTAINED FROM THE CITY, STATE AND COUNTY PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH THE COURSE OF HIS OPERATIONS.
- THE CONTRACTOR AND/OR BUILDER WILL KEEP THE SUBDIVISION NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. ALL CITY STREETS ADJACENT TO THE DEVELOPMENT SHALL BE KEPT CLEAR OF MUD, ROCK, DIRT, DEBRIS, PAPER AND WASTE MATERIAL AT ALL TIMES. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED.
- IF ANY WORK OR ACCESS TO ANY ADJOINING PROPERTY IS DONE, IT IS THE FULL RESPONSIBILITY FOR THE APPLICANT/OWNER TO OBTAIN PROPER RELEASES FROM ADJOINING PROPERTY OWNERS AND ASSUME ALL LIABILITY FOR ACTION TAKEN DURING ALL CONSTRUCTION.
- ALL DISTURBED AREAS ARE TO BE RESEDED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STATE OF MISSOURI DESIGN STANDARDS FOR PUBLIC IMPROVEMENTS.
- PROVIDE TEMPORARY EROSION CONTROL TO CONTAIN ALL SOILS ON SITE. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS (PIPES) SHALL BE FUNCTIONING PRIOR TO STARTING ANY OTHER CONSTRUCTION ACTIVITIES. I.E., ONLY CONSTRUCTION ACTIVITIES REQUIRED TO INSTALL THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS (PIPES) ARE ALLOWED UNTIL THESE ITEMS ARE INSTALLED AND APPROVED.
- CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN.
- PRIOR TO CONSTRUCTION, THE OWNER SHALL CONVEY A PRE-CONSTRUCTION MEETING BETWEEN THE STATE OF MISSOURI, CONSULTING ENGINEER, CONTRACTOR(S) AND ANY OTHER AFFECTED PARTIES.
- EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
- CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT.
- CONTRACTOR TO TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS.
- THE CONTRACTOR SHALL HAVE A SET OF PLANS FILED WITH THE STATE OF MISSOURI ON SITE. THE CONTRACTOR SHALL HAVE ON THE PROJECT AT ALL TIMES, AS HIS AGENT, A COMPETENT SUPERVISOR CAPABLE OF READING AND THOROUGHLY UNDERSTANDING THE PLANS AND SPECIFICATIONS AND THOROUGHLY EXPERIENCE IN THE TYPE WORK BEING PERFORMED WHO SHALL RECEIVE INSTRUCTIONS FROM THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTOR OF ANY NEW SINKHOLES DISCOVERED DURING CONSTRUCTION.
- TEMPORARY CONSTRUCTION ENTRANCE TO HAVE SHOT ROCK FOR ITS SURFACE.
- BE THE INSTALLATION OF SILT FENCE FOR CONSTRUCTION IS TO BE INSTALLED BY THE CONTRACTOR AND IN PLACE BEFORE BEGINNING SITE CONSTRUCTION. SIMILAR DEVICES MAY BE USED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF THE ENGINEER. DEVICES TO BE IN PLACE AS SHOWN ON THE PLANS. ADJUSTMENT OF THE LOCATION BY THE CONTRACTOR MAY BE DONE TO MEET EXISTING FIELD CONDITIONS. ALL CONTROLS ARE TO BE LACED WITH OWNERS PROPERTY. ACCUMULATED SEDIMENT IN BASINS WILL REQUIRE REMOVAL DURING CONSTRUCTION OR AFTER EACH RAIN EVENT AND AT THE END OF CONSTRUCTION. EACH BASIN SHALL BE CHECKED AFTER EACH RAIN EVENT. CONTRACTOR TO MINIMIZE THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES AT ANY ONE TIME AND TO PROMPTLY REVEGETATE (OR MECHANICALLY STABILIZE) ARE DISTURBED BY CONSTRUCTION ACTIVITY.
- SILT FENCES SHALL BE PLACED AROUND ALL SOIL SPOIL PILES TO PREVENT EROSION.
- REFER TO SECTION 01 51 00 OF THE SPECIFICATIONS.



## STRUCTURAL NOTES

### 1. FOOTINGS & FOUNDATION EXCAVATION:

- A. A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. SEE PROJECT MANUAL FOR GEOTECHNICAL INFORMATION. APPROPRIATE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT ISSUED BY SMITH & CO. ENGINEERS DATED SEPTEMBER 23, 2021 SHALL BE FOLLOWED.
- B. THESE FOUNDATIONS HAVE BEEN DESIGNED FOR A SOIL BEARING OF 3500 PSF FOR CONTINUOUS AND ISOLATED FOOTINGS.
- C. FOUNDATIONS SHALL BEAR ON IN-SITU SOILS OR ON PROPERLY PLACED AND COMPACTED STRUCTURAL FILL. SEE GEOTECHNICAL REPORT FOR SPECIFIC REQUIREMENTS REGARDING EXCAVATION AND PREPARATION OF SUBGRADE. A GEOTECHNICAL ENGINEER SHALL BE PRESENT TO DIRECT THE REMOVAL OF UNSUITABLE SOILS AND TO DETERMINE THE ADEQUACY OF THE BEARING SURFACE PRIOR TO PLACEMENT OF THE REINFORCEMENT AND CONCRETE.
- D. FOOTING WIDTHS TO BE AS SHOWN ON PLANS AND DETAILS. BOTTOM OF FOOTING IS TO BE EXCAVATED SQUARE AND TRUE.
- E. WHERE ANY OPEN TRENCH HAS BEEN EXPOSED TO RAIN, SNOW OR ICE PRIOR TO POURING CONCRETE, ALL REINFORCING IN THAT TRENCH SHALL BE REMOVED AND THE BOTTOM OF THE TRENCH SHALL BE DRAINED OF ALL WATER AND CLEANED OF MUD, SNOW OR ICE. A GEOTECHNICAL ENGINEER OR HIS TECHNICAL REPRESENTATIVE SHALL INSPECT THE BOTTOM OF THE TRENCH AND OBSERVE THE RE-COMPACTION OF SOILS PRIOR TO PLACING REINFORCEMENT AND POURING OF CONCRETE.
- F. ALL STRIP FOOTINGS SHALL BE CENTERED UNDER WALLS BEING SUPPORTED AND ALL ISOLATED FOOTINGS SHALL BE CENTERED UNDER COLUMNS, UNLESS NOTED OTHERWISE.
- G. MINIMUM EXTERIOR FOOTING DEPTH SHALL BE AS INDICATED ON THE FOUNDATION PLAN AND FOUNDATION DETAILS.
- H. IN THE EVENT THAT UNACCEPTABLE SOIL OR UNCOMPACTED FILL IS FOUND BELOW FOOTINGS OR FLOOR SLABS, IT SHALL BE REMOVED AND REPLACED WITH SELECT FILL, COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- I. STRUCTURAL FILL SHOULD BE PLACED IN NO GREATER THAN 8" LOOSE LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ADEQUATE DENSITY AND MOISTURE CONTENT TESTS SHOULD BE PERFORMED TO INSURE COMPLIANCE WITH PROJECT SPECIFICATIONS. SUBGRADE INSPECTION AND FILL TESTING UNDER CONTROLLED CONDITIONS IS CONSIDERED ESSENTIAL IF THE FOOTINGS ARE TO BE FOUND IN FILL.

### 2. CONCRETE:

- A. ALL READY MIX CONCRETE SHALL BE 4000 psi FOR ALL CONCRETE PLACEMENT. DO NOT ADD WATER TO THE MIX DESIGN AFTER DELIVERY TO THE PROJECT SITE.
- B. EXPOSED EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED. INTERIOR CONCRETE SHALL NOT BE AIR-ENTRAINED.
- C. UNLESS NOTED OTHERWISE, CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUM REQUIREMENT BY ACI 318.
- D. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315, EXCEPT WHERE OTHERWISE INDICATED.
- E. HOT OR COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306-89 AND ACI 306-1-90, RESPECTIVELY.
- F. ANY CONCRETE PLACED BY MEANS OF PUMPING SHALL BE DONE IN ACCORDANCE WITH ACI 304.2R (82).
- G. CEMENT SHALL CONFORM TO A.S.T.M. C-150 TYPE I OR TYPE III.
- H. AGGREGATES SHALL CONFORM TO A.S.T.M. C-33 FOR NORMAL WEIGHT CONCRETE & A.S.T.M. C-330 FOR LIGHTWEIGHT CONCRETE.
- I. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH A.S.T.M. C-94.
- J. ADMIXTURES MAY BE USED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE CEMENT CONTENT. NO CALCIUM CHLORIDE ADMIXTURES ALLOWED.

### 3. SLABS ON GRADE:

- A. FLOOR SLABS ARE TO BE PLACED AND FINISHED IN ACCORDANCE WITH ACI 302 (SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION).
- B. THICKNESS TOLERANCE FOR ALL SLABS IS TO BE PER ACI 117 AND IS TO BE NO MORE THAN +3/8" (THICKER) AND NO MORE THAN -1/4" (THINNER) FROM THE DESIGN THICKNESS.

### 4. REINFORCING:

- A. REINFORCING BARS SHALL BE BILLET STEEL, ASTM A 615, GRADE 60. PROVIDE CONTINUOUS BENT BARS AT FOOTING STEPS AND 90 DEGREE BENT TIES AT CORNERS. UNLESS OTHERWISE NOTED, LAP SPLICES OR EMBEDMENT LENGTHS SHALL CONFORM TO CLASS B SPLICE (SEE SPLICE TABLE). ADJACENT BARS IN WALLS AND FOOTINGS TO BE ALTERNATED. ALL FOOTINGS SHALL REQUIRED HOOKED REINFORCING PROJECTED INTO WALLS, PILASTERS OR COLUMNS. THE SIZE AND SPACING OF DOWELS ARE TO MATCH VERTICAL REINFORCING.
- B. REINFORCING DETAILING, BENDING, AND PLACING SHALL CONFORM TO ACI 315.
- C. MINIMUM CONCRETE COVERAGE: THE MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:
 

SLABS ON EARTH.....	.....CENTER OF SLAB
CONCRETE BELOW GRADE, FORMED.....	.....2"
CONCRETE BELOW GRADE, UNFORMED AND POURED AGAINST EARTH.....	.....3"

### 5. STRUCTURAL STEEL:

- A. FABRICATOR QUALIFICATIONS: FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CONTROL PROGRAM AND BE DESIGNATED AN AISC-CERTIFIED PLANT.
- B. MATERIALS (UNLESS NOTED OTHERWISE):
 

STRUCTURAL STEEL.....	ASTM A992, GRADE 50
PLATES, ANGLES, CHANNELS, AND MISCELLANEOUS STEEL.....	ASTM A36
ANCHOR RODS.....	ASTM F1554, GRADE 36
HIGH STRENGTH BOLTS.....	ASTM F3125
WELDING ELECTRODES.....	AWS A5.1 (E70XX)

### 6. LIGHT GAUGE STEEL (JOISTS & STUDS):

- A. ALL LIGHT GAUGE METAL STUDS, JOISTS AND HEADERS ARE TO MEET OR EXCEED INDUSTRY STANDARDS AS SET FORTH BY THE STEEL STUDS MANUFACTURER'S ASSOCIATION (SSMA).
- B. LIGHT GAUGE STEEL MEMBER DESIGNATIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE SSMA STANDARD DESIGNATIONS.
- C. ALL LIGHT GAUGE STEEL JOISTS SPANNING MORE THAN 8' SHALL HAVE 18ga RUNNER TRACK SOLID BLOCKING AT A MAXIMUM OF 8' O.C.
- D. ALL LIGHT GAUGE STEEL WALLS SHALL BE Laterally Braced at 48" O.C. (VERTICALLY) USING 2"x20ga FLAT STRAP BRACING ATTACHED TO EACH STUD FLANGE. SOLID BLOCKING WITHIN THE PLANE OF THE STRAP BRACING MUST BE PROVIDED AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND AT 8' O.C. MAXIMUM. ALL BRIDGING AND BRACING IS TO BE POSITIVELY CONNECTED TO STUDS.
- E. MINIMUM TRACK GAUGE TO MEET OR EXCEED GAUGE OF SUPPORTED STUDS.
- F. BOTTOM TRACK FASTENERS TO BE SPACED AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND AT 24" O.C. MAXIMUM.
- G. POWDER ACTUATED FASTENERS SHALL BE DS HEAVY DUTY 0.1770x1 1/2" LONG MANUFACTURED FROM MODIFIED AISI 1061 STEEL AUSTEMPERED TO A HARDNESS OF 52-56 HRC AND ZINC PLATED IN ACCORDANCE WITH ASTM B633.SC1, TYPE III. FASTENERS SHALL BE INSTALLED BY A QUALIFIED OPERATOR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. POWDER ACTUATED FASTENERS SHALL BE AS MANUFACTURED BY "HILTI FASTENING SYSTEMS" (BASIS OF DESIGN) OR EQUIVALENT.
- H. ALL LOAD BEARING STUDS TO BE SEATED SQUARELY INTO TOP AND BOTTOM WALL TRACKS WITH NO MORE THAN A 1/8" GAP.

### 7. LUMBER:

- A. TREATED LUMBER
  1. IN LOCATIONS WHERE TREATED LUMBER IS SHOWN ON DRAWINGS, THE APPROVED PRESSURE TREATED WOODS ARE ACQ-D(CARBONATE) OR CA-B TREATED WOODS WITHOUT AMMONIA CARRIERS. THE CHEMICAL RETENTION LEVELS ARE TO BE NO GREATER THAN 0.4 PCF FOR ACQ-2, 0.21 PCF FOR CA-B. ALL METAL CONNECTORS ARE TO HAVE A GALVANIZED COATING OF NO LESS THAN 1.85 OUNCES OF ZINC PER SQUARE FOOT PER ASTM A653. ALL BOLTS, SCREWS NAILS AND OTHER FASTENERS ARE TO BE GALVANIZED PER ASTM A153. WHERE TREATED LUMBER IS SHOWN IN EXTERIOR INSTALLATIONS WITH NO ROOF COVERINGS TO PREVENT DIRECT EXPOSURE TO RAIN, USE HOT DIP GALVANIZED CONNECTORS PER ASTM A123.
- B. FIRE RETARDANT TREATED (FRT) PLYWOOD
  1. 3/4" FRT SHEATHING TO BE FASTENED AT 6" O.C. AT PERIMETER OF SHEETS AND 12" O.C. AT INTERMEDIATE SUPPORTS WITH (MIN) #8 SCREWS.

### 8. GENERAL:

- A. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- B. THE STRUCTURAL DESIGN OF THE BUILDING IS BASED UPON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISION MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY ANALYSIS AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- C. CORRECTIONS DUE TO UNFORESEEN FIELD CONDITIONS OR DIMENSIONAL DISCREPANCIES ON CONSTRUCTION DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR REVIEW AND AUTHORIZATION PRIOR TO CORRECTIVE MEASURES BEING IMPLEMENTED.
- D. STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- E. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- F. ALL SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE PROJECT ARCHITECT/ENGINEER PRIOR TO SUBMITTING TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.

### 9. SPECIAL INSPECTIONS REQUIREMENTS:

- A. OWNER SHALL ENGAGE ONE OR MORE QUALIFIED SPECIAL INSPECTORS AND/OR TESTING AGENCIES TO CONDUCT STRUCTURAL TESTS, CONSTRUCTION MATERIAL TESTING, AND SPECIAL INSPECTIONS SPECIFIED IN THE "STATEMENT OF SPECIAL INSPECTIONS".
- B. FOR THE SPECIFIC RESPONSIBILITY OF THE OWNER, CONTRACTOR, AND SPECIAL INSPECTOR REFER TO THE PROJECT MANUAL.

## DESIGN CRITERIA

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

### DESIGN LOADS:

ROOF LIVE LOAD.....	20.0 psf
ROOF DEAD LOAD.....	SEE PEMB
ROOF COLLATERAL LOAD.....	4.0 psf
SPRINKLER LOADS	
UNIFORM BRANCH PIPE LOAD.....	1.0 psf
LINEAL LOOP/TEE MAIN PIPE LOAD.....	25.0 pif
SHOWER CEILING LIVE LOAD.....	20.0 psf
SHOWER CEILING DEAD LOAD.....	10.0 psf

### SNOW LOAD:

P <sub>s</sub> = 15 psf
P <sub>f</sub> = 10.5 psf
C <sub>e</sub> = 1.0
C <sub>t</sub> = 1.0
I <sub>s</sub> = 1.0

### WIND CALCULATION METHOD: ENVELOPE

V <sub>w</sub> = 105 mph	V <sub>adj</sub> = 81.3 mph
EXPOSURE = "C"	
RISK CATEGORY = II	
BUILDING, ENCLOSED C <sub>p</sub> = ±0.18	
K <sub>z1</sub> = 1.0	
K <sub>d</sub> = 0.85	

### MAIN FORCE RESISTING SYSTEM:

WALL AND ROOFS q = 13.1 psf

### WIND COMPONENTS & CLADDING: All Wind Pressures & Forces in "ASD"

(Wind pressures below were used by JS Smith Consulting Engineers, P.C. for design. Components designed by others for use in this project will require wind pressures derived by that supplier.)

WALL AREAS 10 SQUARE FEET OR LESS = 20.7 psf
WALL INTERIOR ZONES = 12.7 psf & -14.0 psf
WALL END ZONES = 12.7 psf & -15.2 psf
ROOF INTERIOR ZONES = 10.0 psf & -17.7 psf
ROOF EDGE ZONES = 10.0 psf & -23.6 psf
ROOF CORNER ZONES = 10.0 psf & -26.5 psf

### BASE SHEAR:

V <sub>w</sub> :	WIND = 7.8 k
	SEISMIC = 47.8 k
V <sub>y</sub> :	WIND = 17.5 k
	SEISMIC = 44.2 k

### SEISMIC DESIGN: EQUIVALENT FORCE PROCEDURE

S <sub>s</sub> = 0.987
S <sub>1</sub> = 0.340
S <sub>0.5</sub> = 0.790
S <sub>0.1</sub> = 0.340
SITE CLASS = C
SEISMIC DESIGN CATEGORY = D
I <sub>e</sub> = 1.0

### SEISMIC FORCE RESISTING SYSTEM:

#### ORDINARY STEEL MOMENT FRAMES

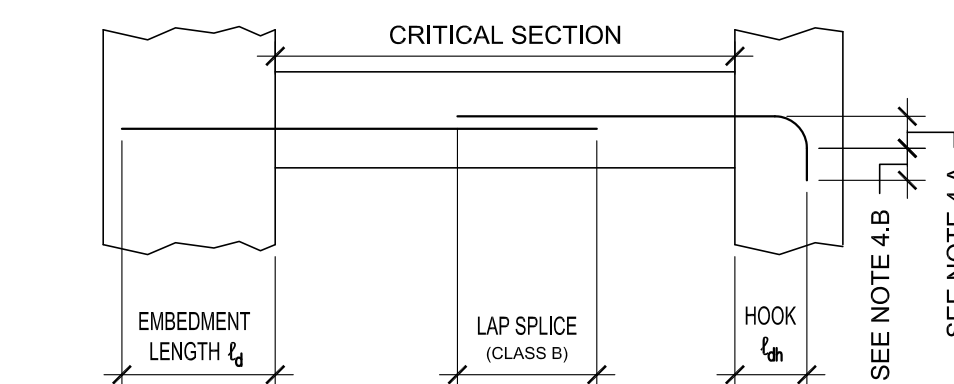
R = 3.50
C <sub>s</sub> = 0.226
Q <sub>s</sub> = 3.00
C <sub>u</sub> = 3.00
p = 1.30

#### STEEL CONCENTRICALLY BRACED FRAMES

R = 3.25
C <sub>s</sub> = 0.243
Q <sub>s</sub> = 2.00
C <sub>u</sub> = 3.25
p = 1.30

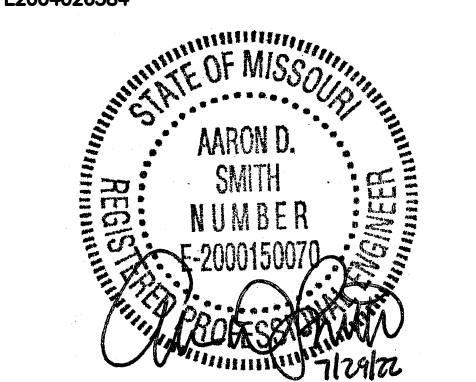
SPLICE TABLE <sup>1</sup>					
(UNLESS NOTED OTHERWISE)					
BAR SIZE	LAP SPLICES (in.) <sup>2</sup>		EMBED LENGTH (in.)		
	TOP BARS <sup>3</sup> Class B	OTHERS Class B	TOP BARS <sup>3</sup> l <sub>d</sub>	OTHERS l <sub>d</sub>	HOOKS <sup>5</sup> l <sub>dh</sub>
#3	26	20	20	16	8
#4	35	27	27	21	11
#5	43	33	33	26	13
#6	52	40	40	31	16
#7	75	58	58	45	18

1. SPLICE TABLE IS BASED ON THE FOLLOWING:
  - A. CONCRETE (f<sub>c</sub> = 4000 psi)
  - B. GRADE 60 REBAR
  - C. BAR SPACING NOT LESS THAN 2 BAR DIAMETERS OR 1"
  - D. CONCRETE COVER NOT LESS THAN ONE BAR DIAMETER
2. LAP LENGTHS SHOWN ARE FOR CLASS "B" TENSION SPLICES PER ACI 318-11 CHAPTER 12.
3. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE REINFORCEMENT IN THAT MEMBER.
4. STANDARD 90° HOOKS:
  - A. RADIUS = 4 BAR DIAMETERS FOR #3 THRU #8
  - B. LENGTH = 12 BAR DIAMETERS
5. HOOK LENGTH MAY BE REDUCED IN ACCORDANCE WITH ACI 318-11 CHAPTER 12.5



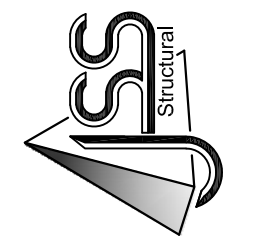
## STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ENGINEERING FIRM REGISTRATION NO.:  
E2004028584



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## OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

## DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD

## CONSTRUCT NEW 60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING #3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-S-001  
DRAWN BY: MW  
CHECKED BY: BTJ, AS  
DESIGNED BY: BTJ

## SHEET TITLE: STRUCTURAL NOTES

SHEET NUMBER:

# S-001

12 OF 36 SHEETS  
07/29/2022



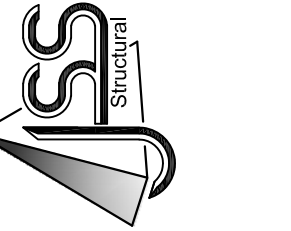






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CAD DWG FILE: T2124-01-6325-8136325016-S-102  
DRAWN BY: MW  
CHECKED BY: BTJ, AS  
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SHEET TITLE:  
INTERIOR FRAMING  
PLAN

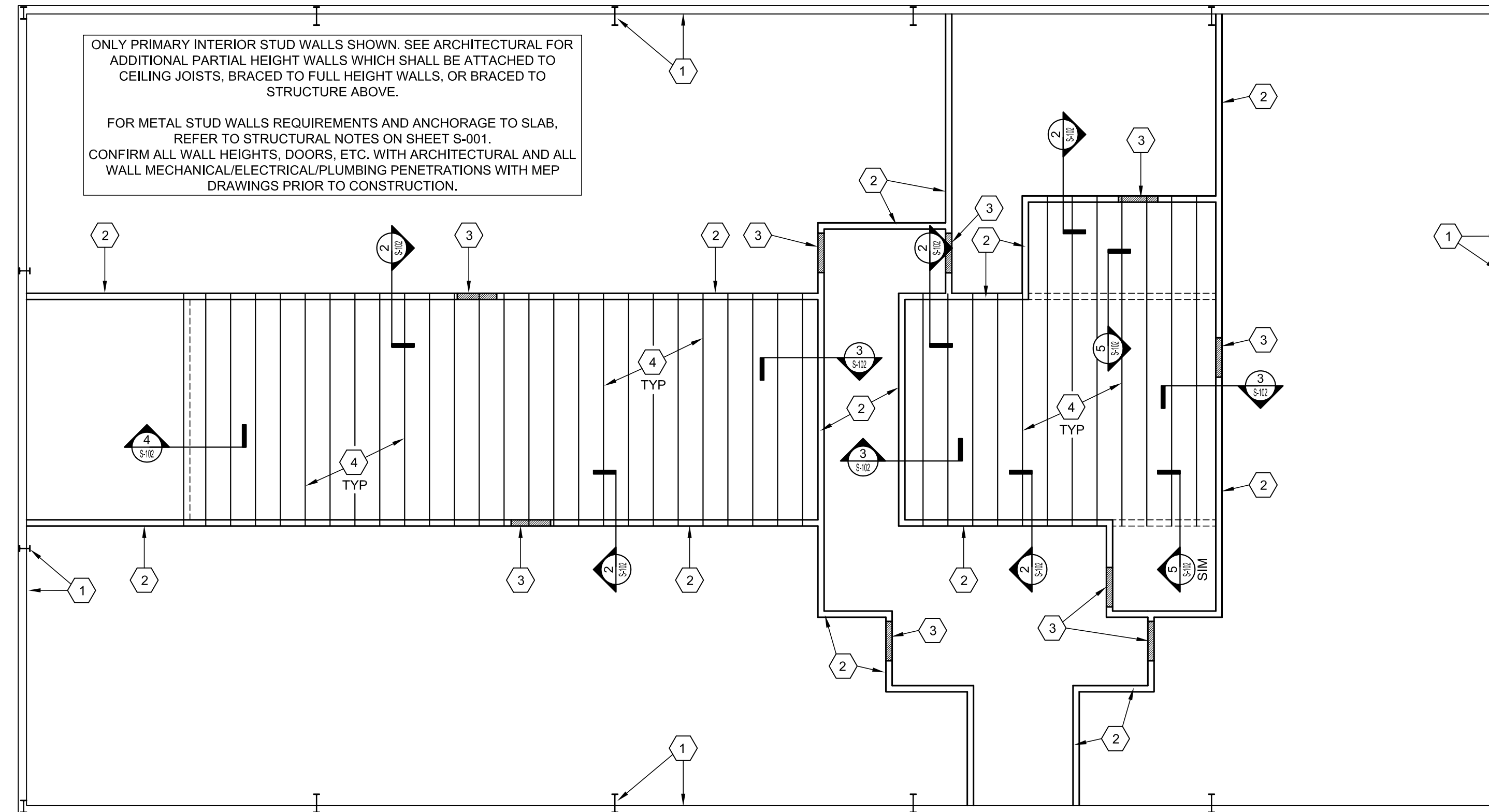
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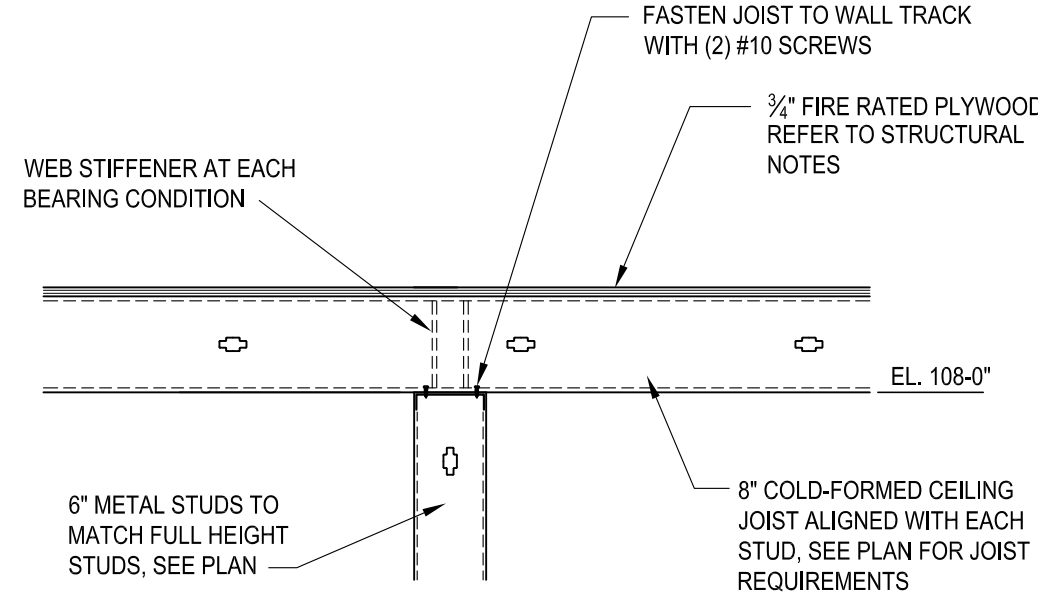
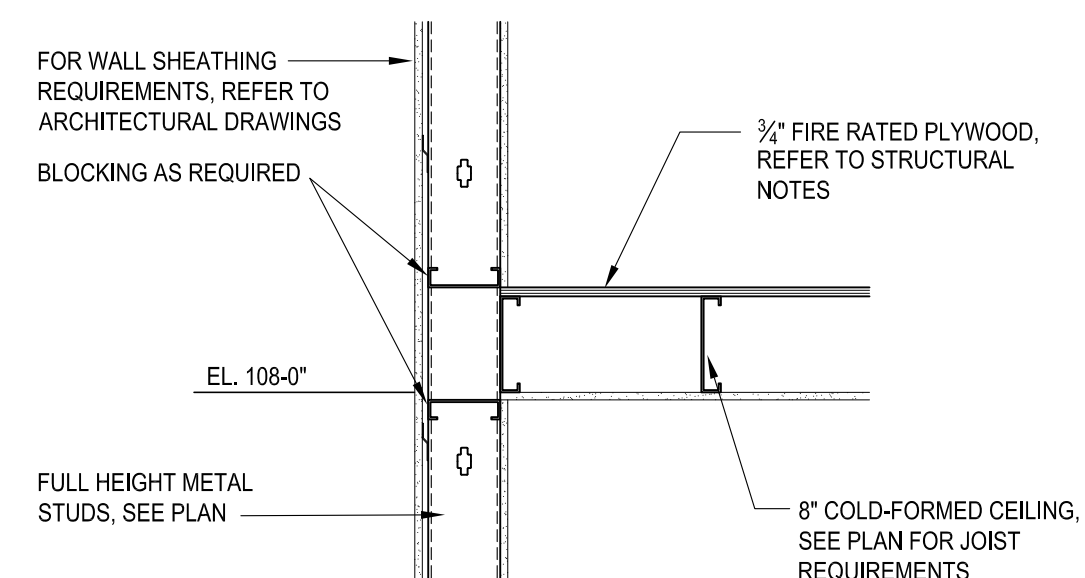
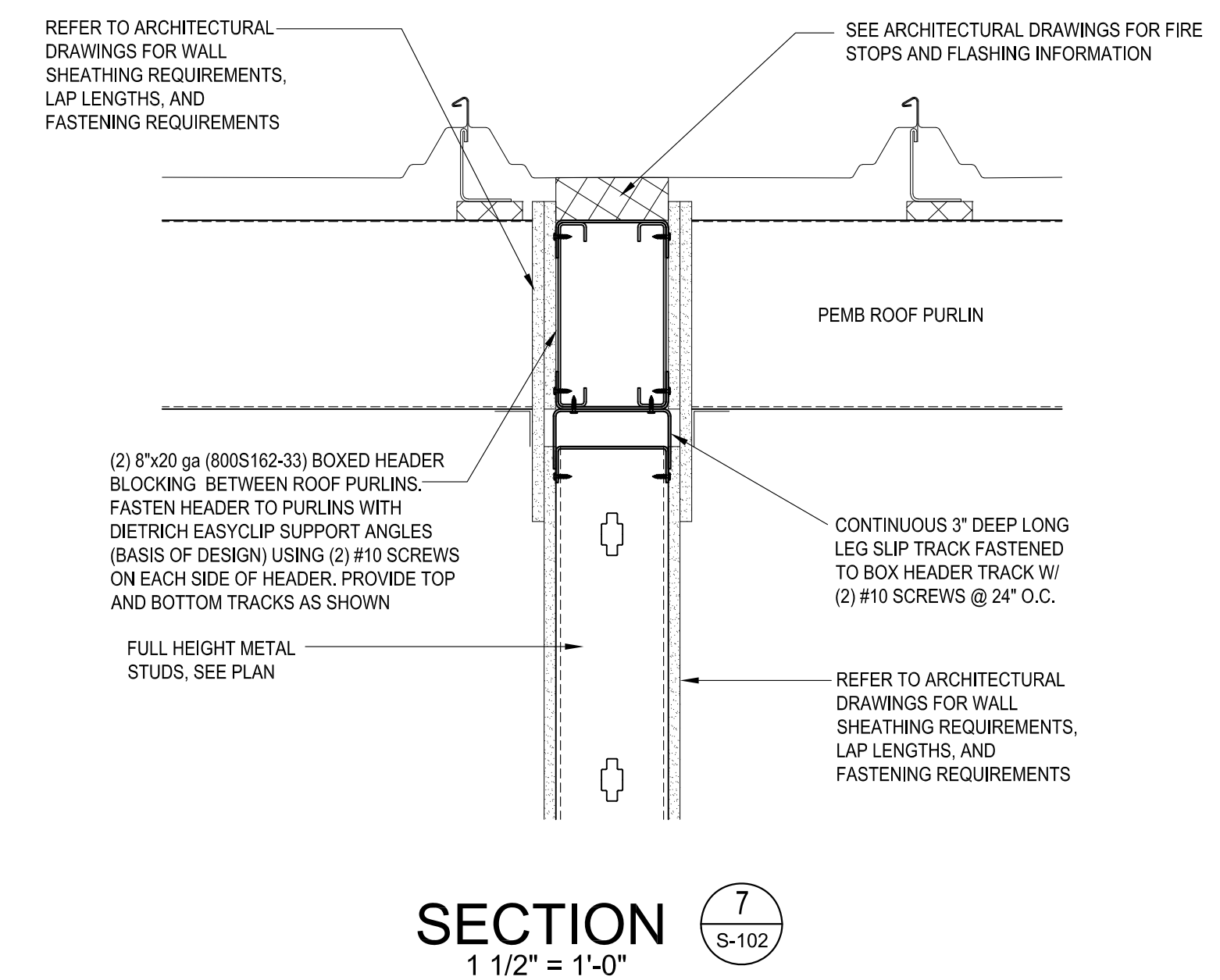
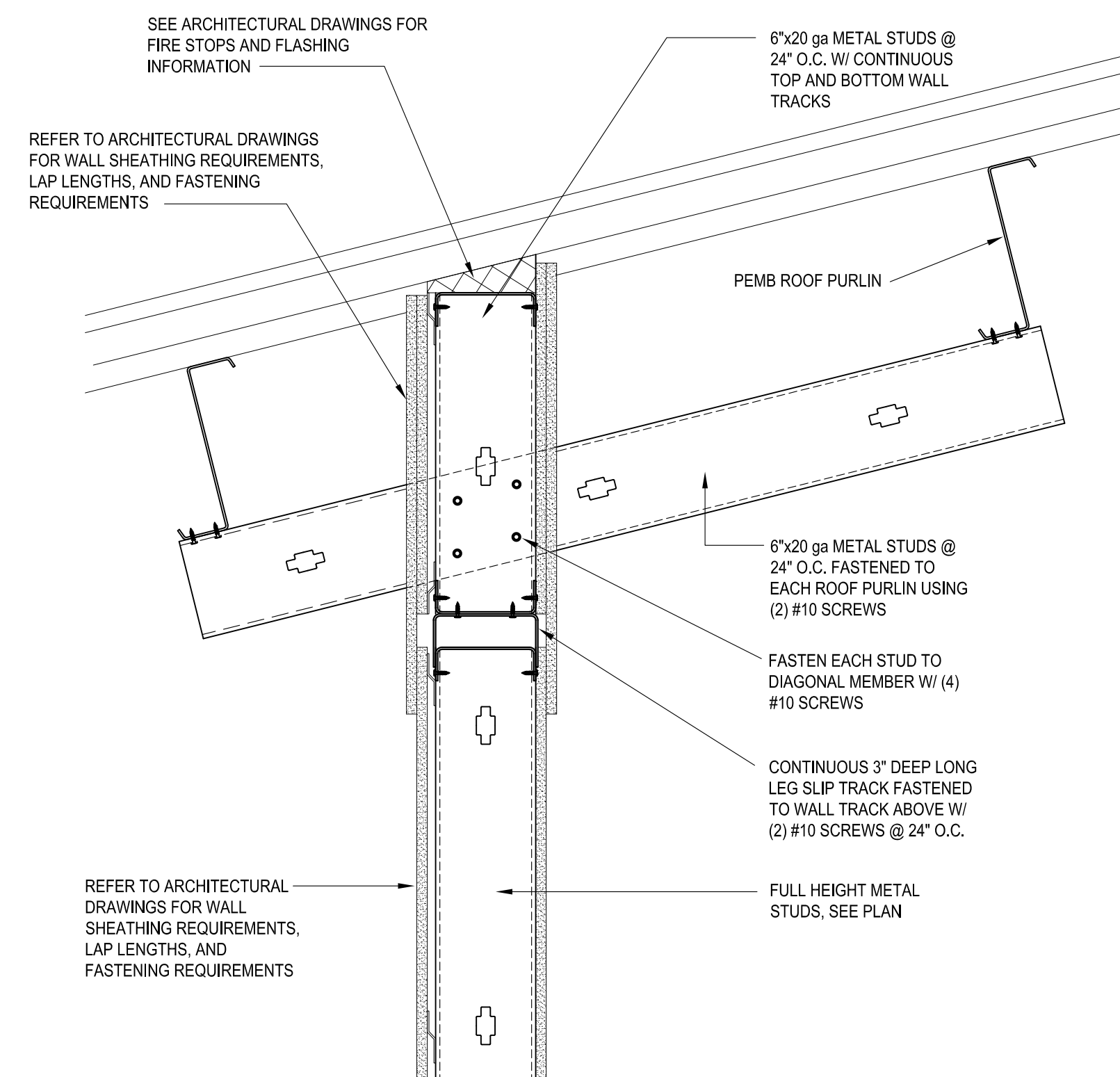
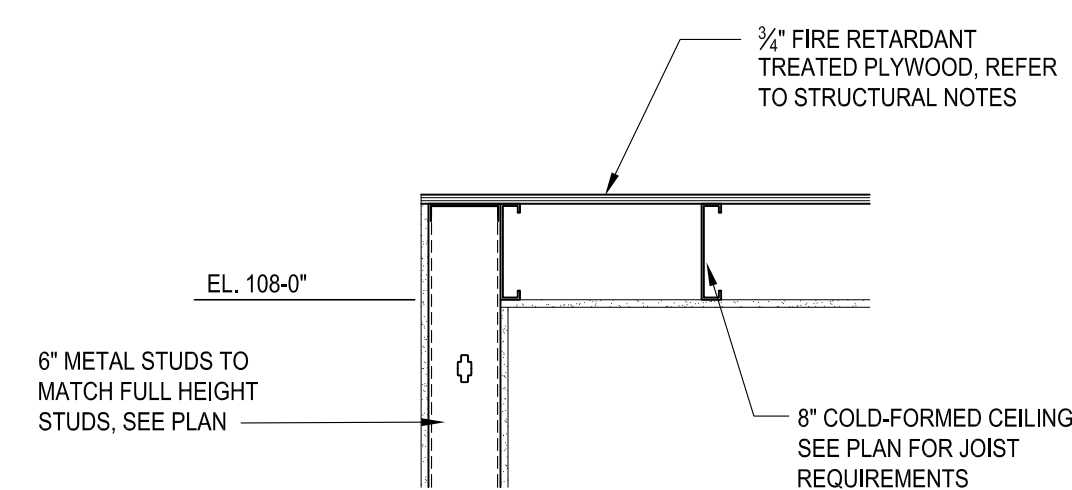
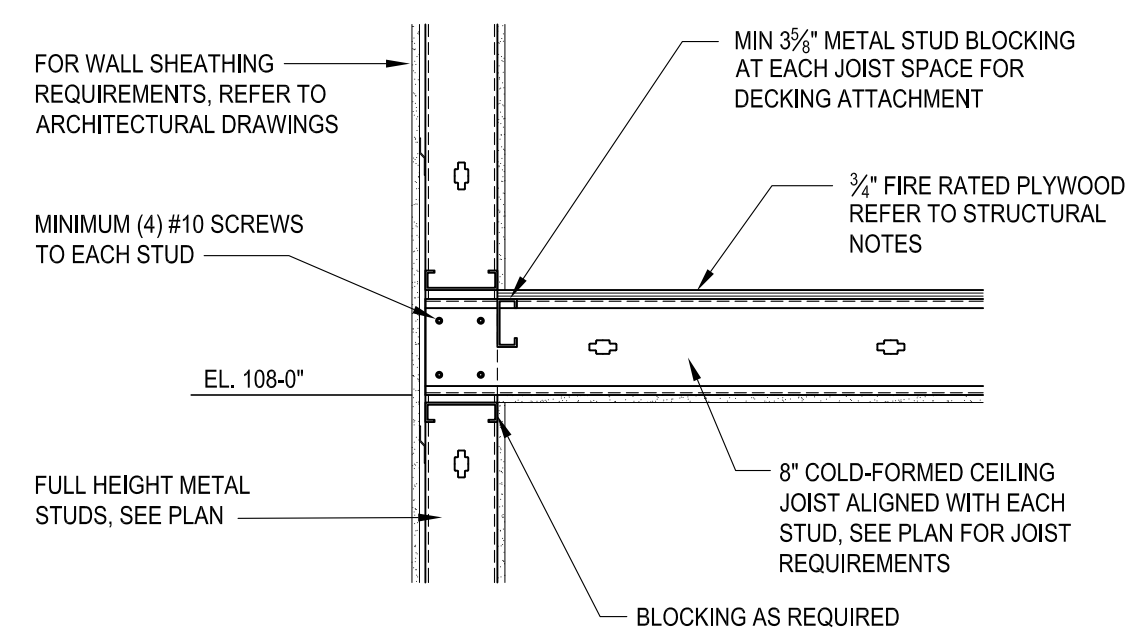
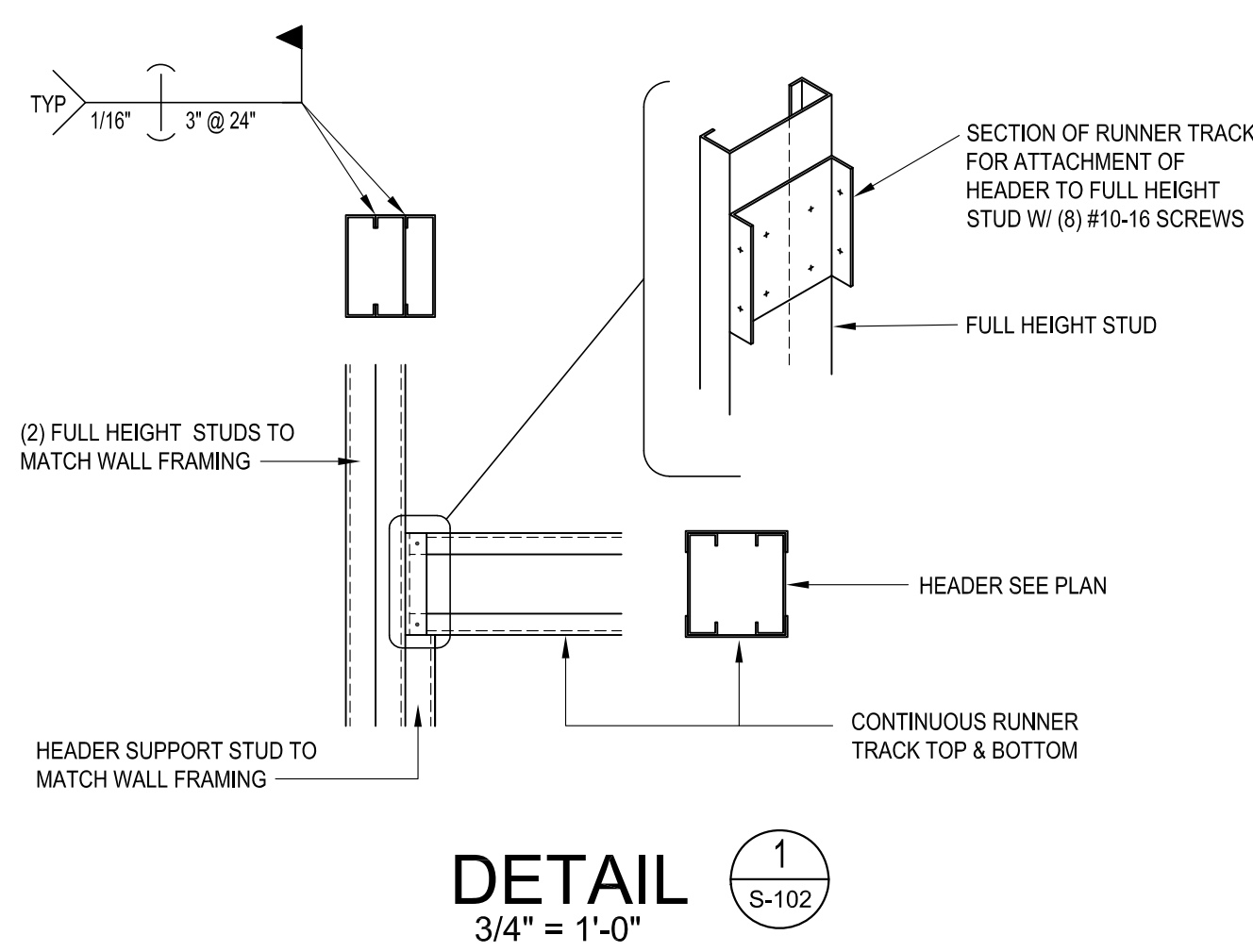
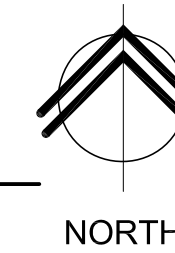
14 OF 36 SHEETS  
07/29/2022

INTERIOR FRAMING PLAN KEY NOTES:

- 1 PRE-ENGINEERED METAL BUILDING FRAME AND WALL GIRT SYSTEM. REFER TO PEMB ERECTION DRAWINGS FOR ADDITIONAL INFORMATION
- 2 6"x20 ga (800S162-33) METAL STUDS @ 24" O.C. EXTENDING TO ROOF DECK. SEE SECTIONS 6 & 7/S-102 FOR TYPICAL CONNECTIONS. PROVIDE ADDITIONAL STUDS AT SHOWER LOCATIONS AS INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO STRUCTURAL NOTES SHEET S-001 FOR ADDITIONAL COLD-FORMED STEEL REQUIREMENTS
- 3 (MINIMUM) (2) 8"x16 ga (800S162-54) BOXED HEADER AT ALL OPENINGS IN FULL HEIGHT STUD WALLS (INCLUDING ALL MECHANICAL PENETRATIONS LARGER THAN 18"). REFER TO DETAIL 1/S-102 FOR TYPICAL HEADER BEARING CONDITIONS. SEE ARCHITECTURAL FOR OPENING SIZE AND LOCATION REQUIREMENTS.
- 4 3/4" FIRE RETARDANT TREATED PLYWOOD SHEATHING OVER 8"x16 ga (800S162-54) METAL JOISTS @ 24" O.C. SEE STRUCTURAL NOTES SHEET S-001 FOR ADDITIONAL COLD-FORMED STEEL REQUIREMENTS



1 S-102 INTERIOR FRAMING PLAN



SECTION 3  
3/4" = 1'-0"

SECTION 5  
3/4" = 1'-0"

SECTION 6  
1 1/2" = 1'-0"

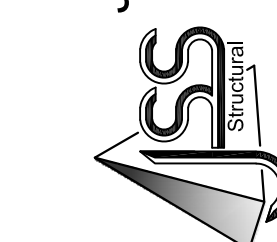
SECTION 7  
1 1/2" = 1'-0"





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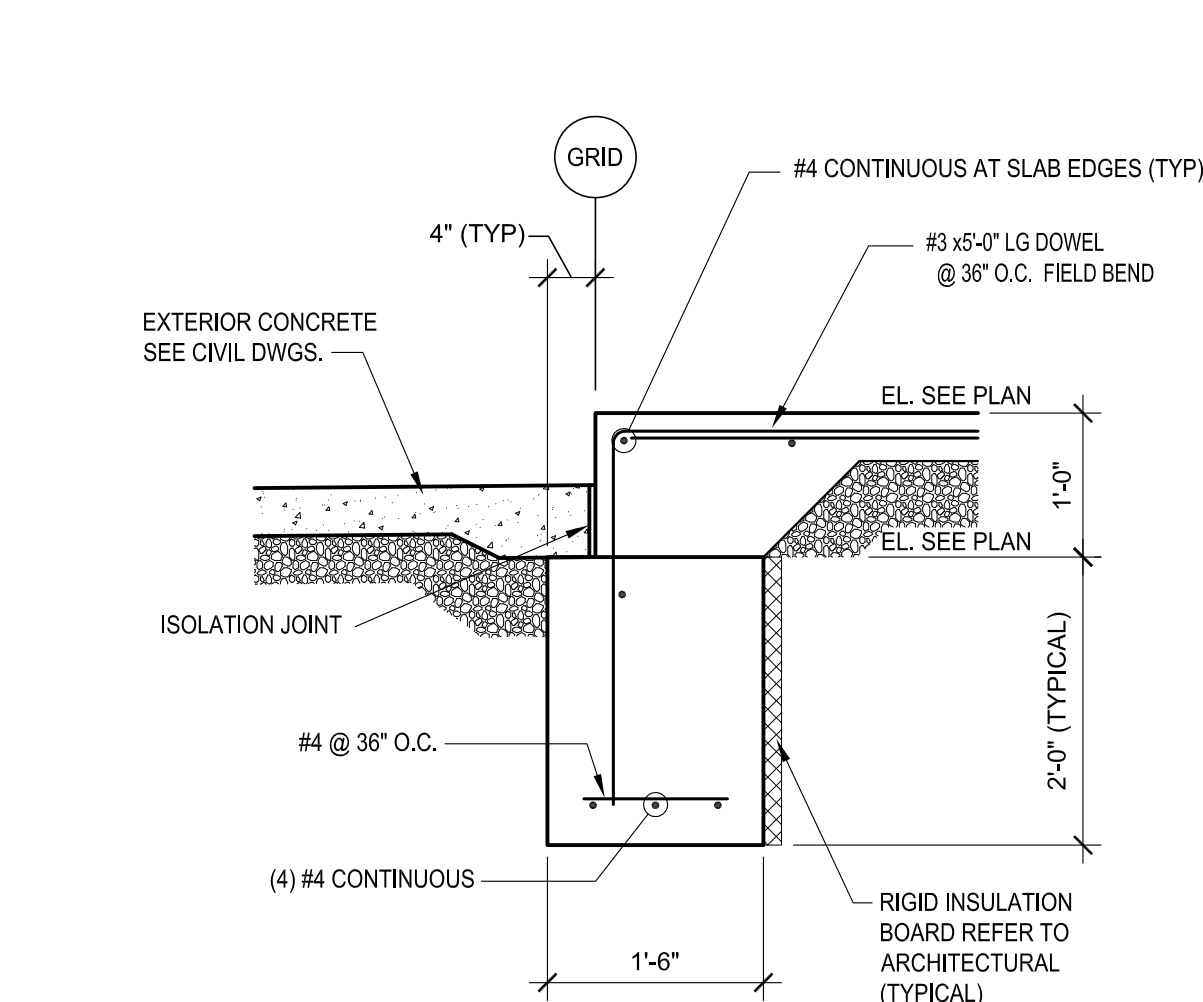
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CHECKED BY: BTJ, AS  
DESIGNED BY: BTJ

SHEET TITLE:  
**FOUNDATION  
DETAILS**

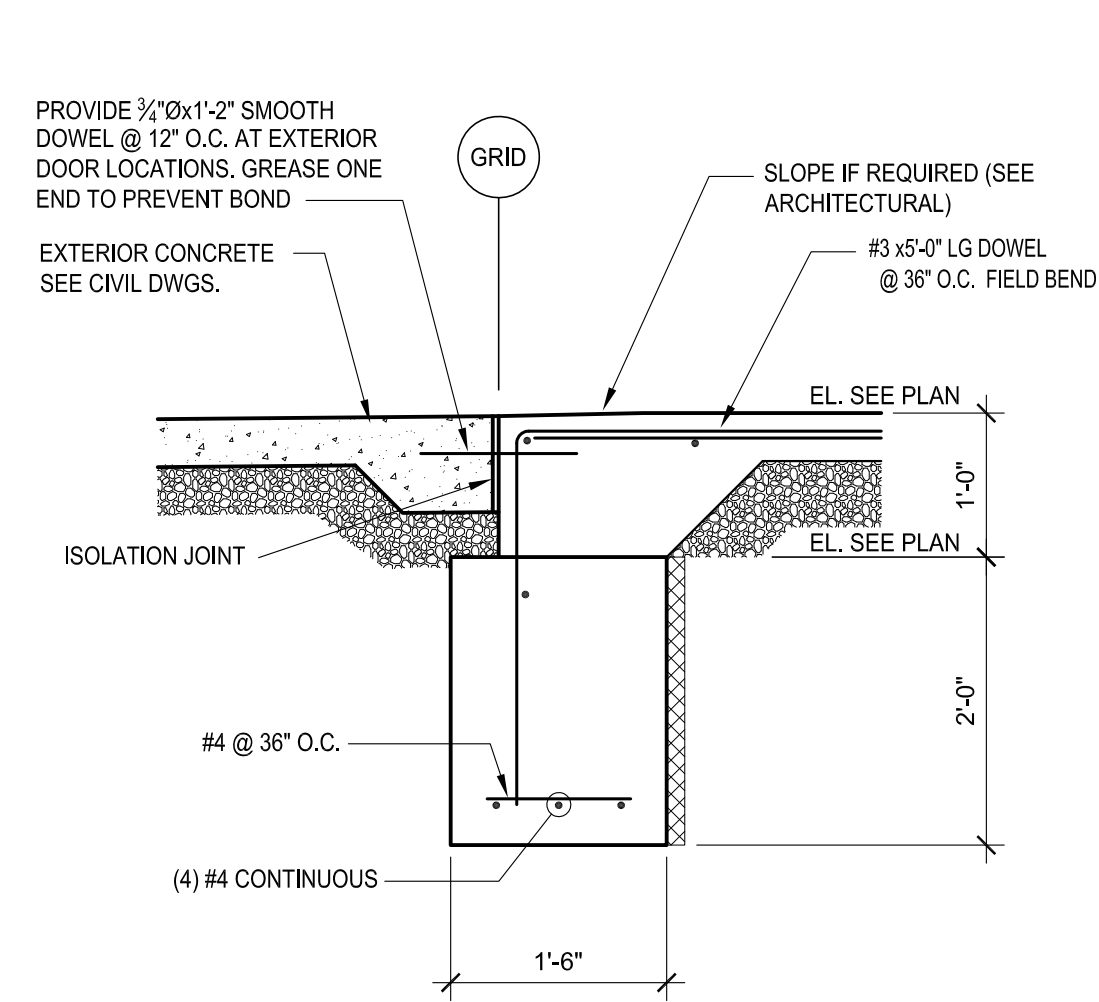
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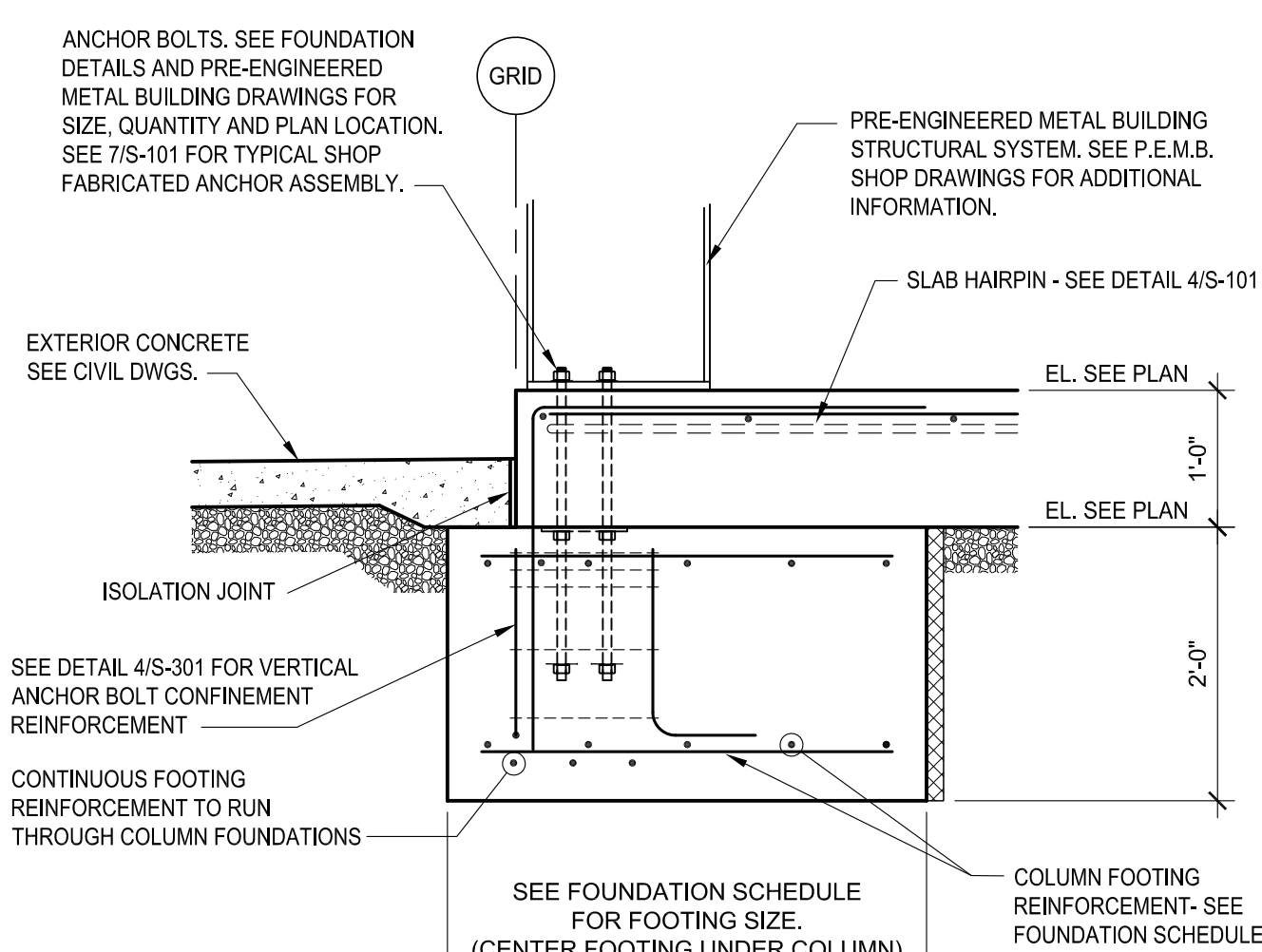
15 OF 36 SHEETS  
07/29/2022



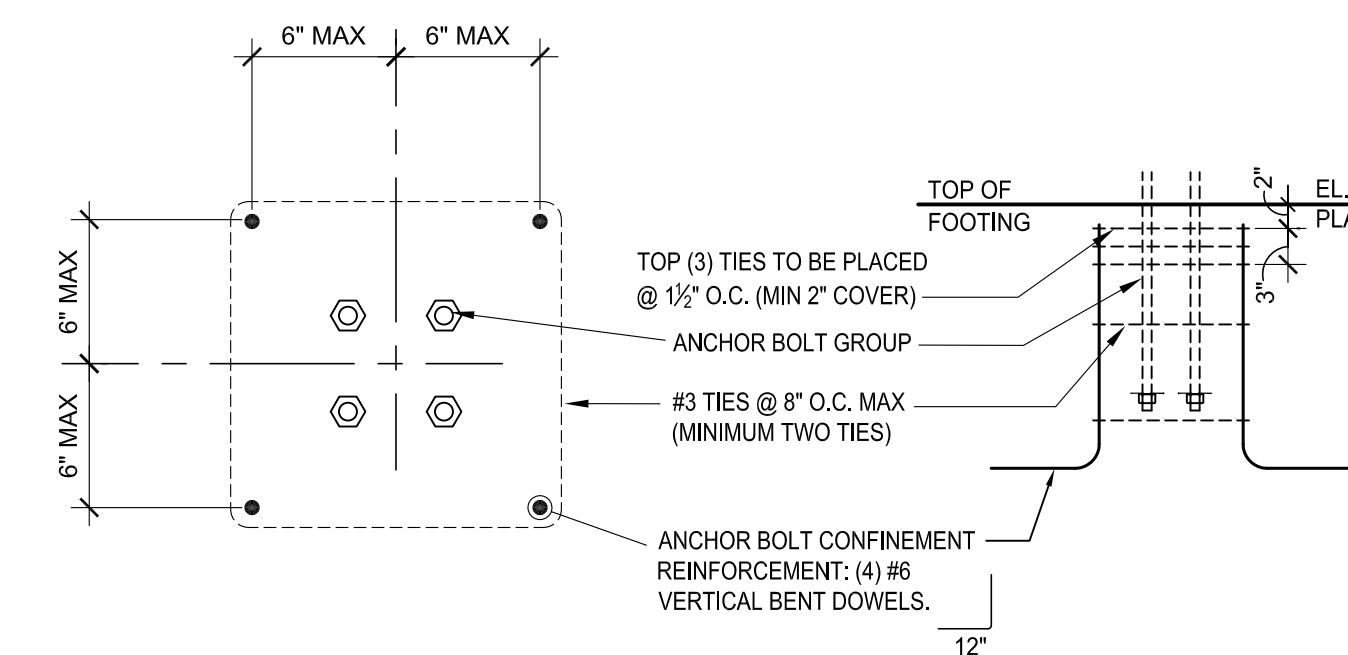
SECTION 1  
3/4" = 1'-0" S-301



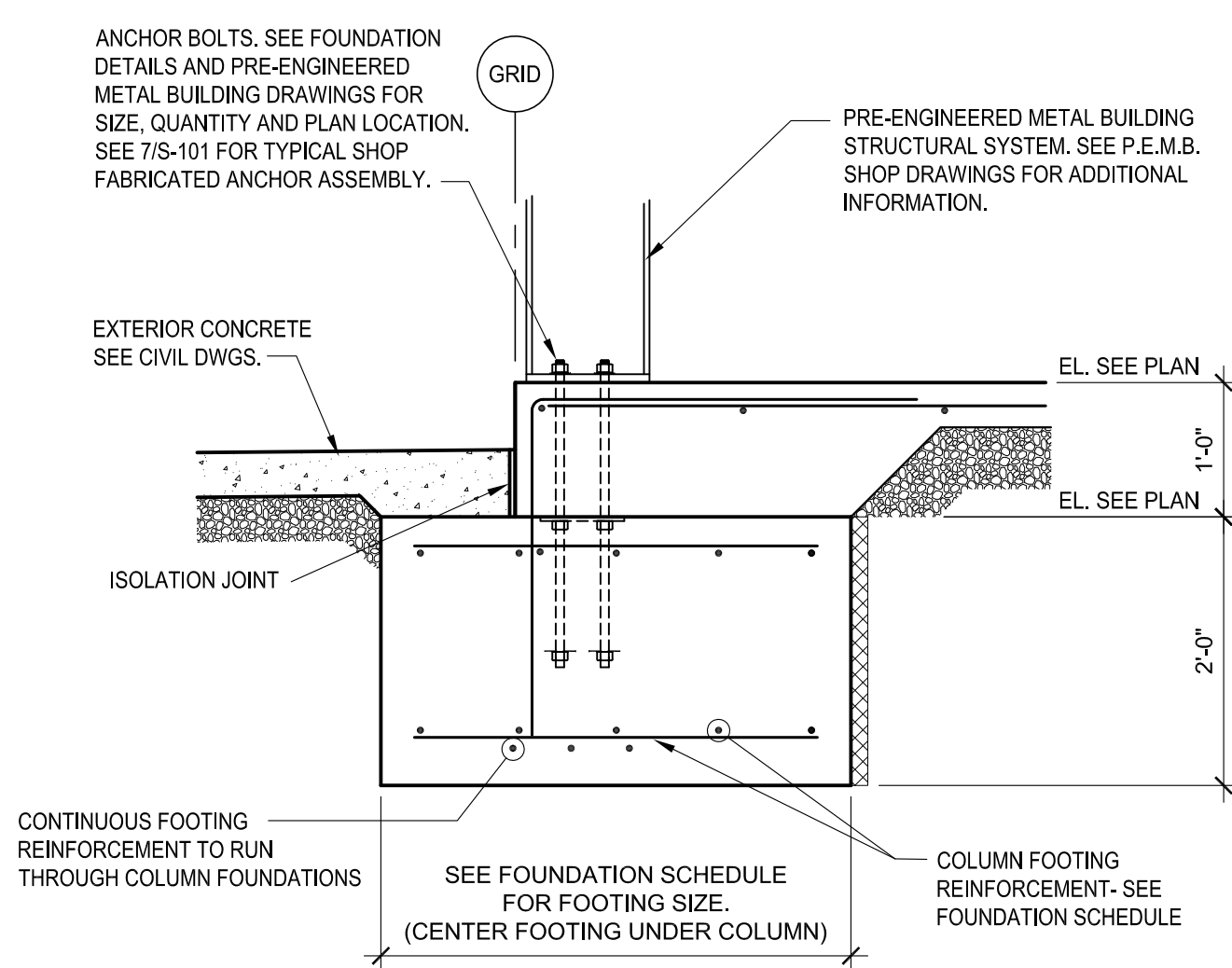
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3/4" = 1'-0" S-301



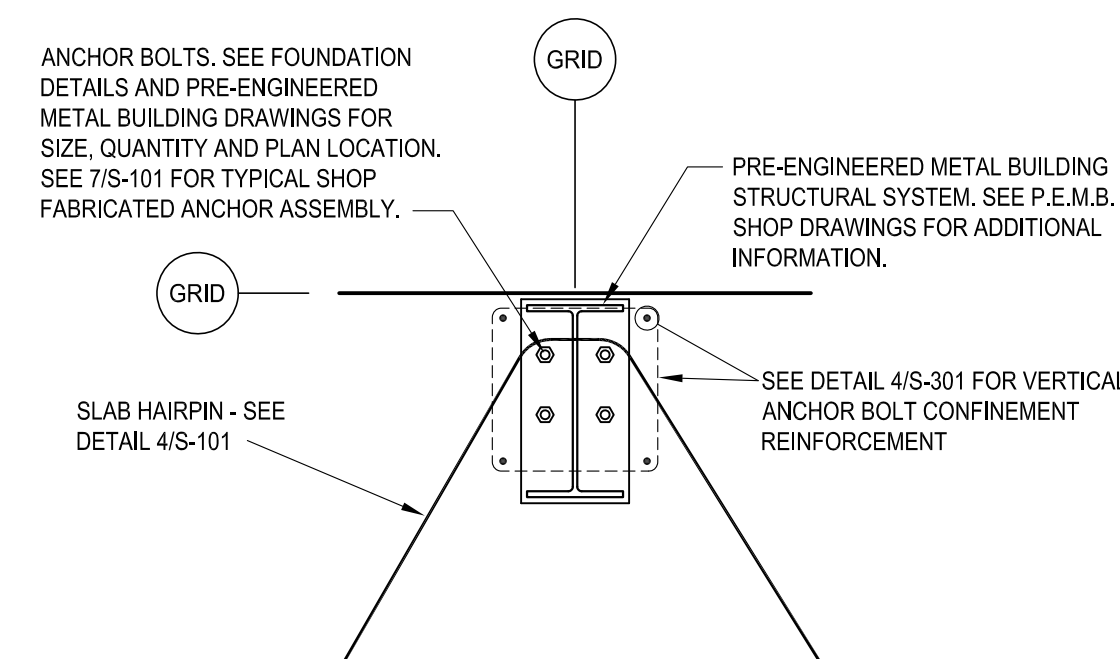
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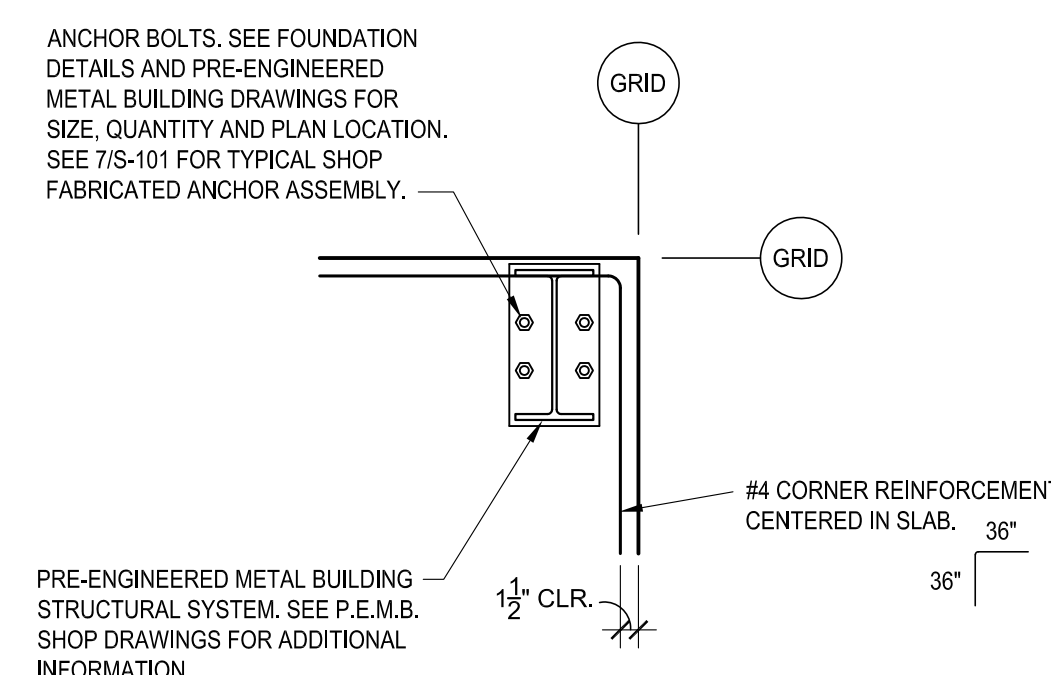
DETAIL 4  
S-301



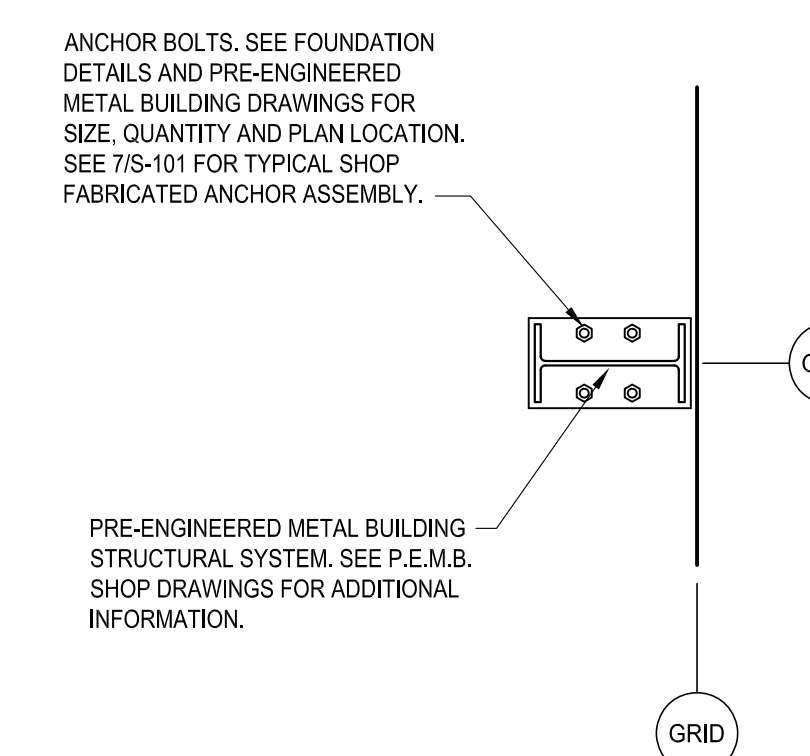
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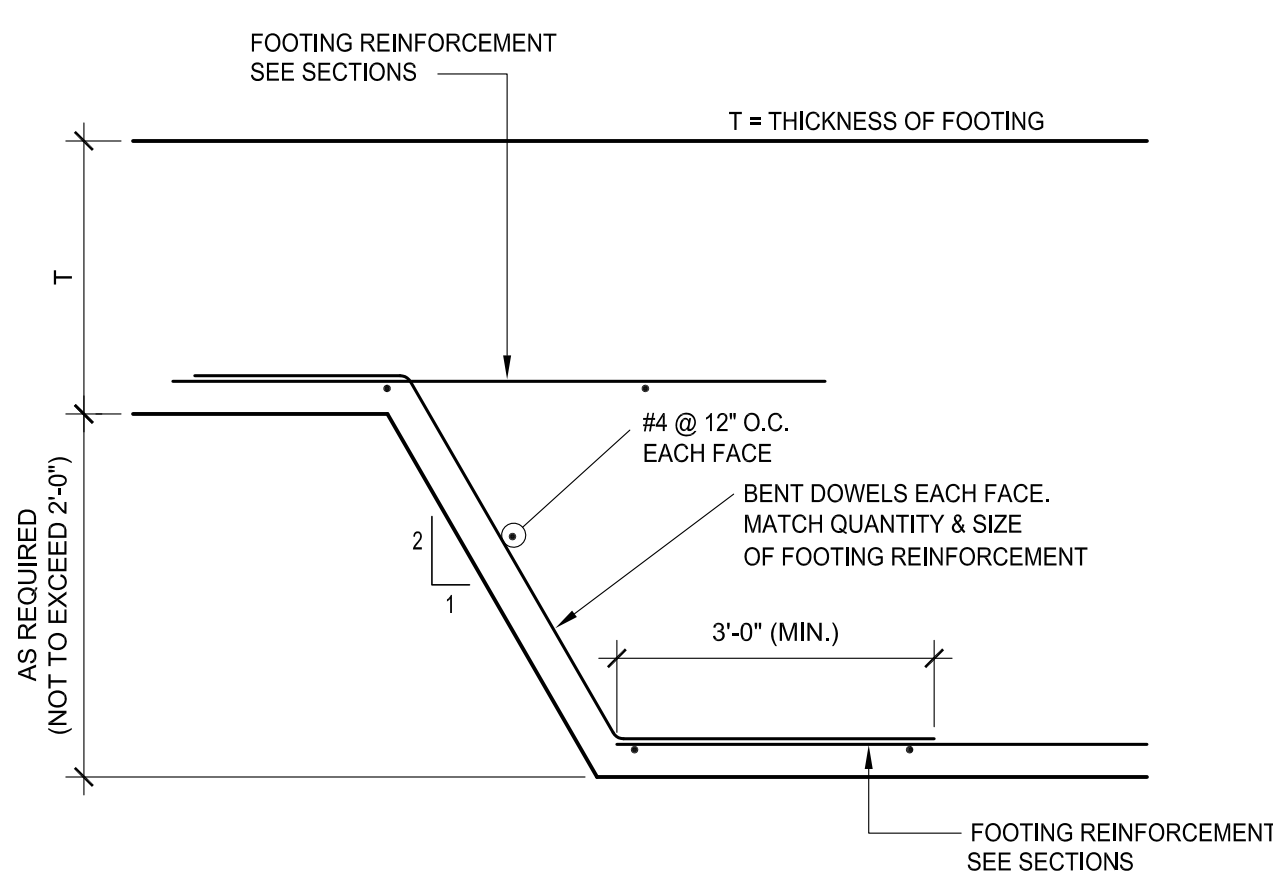
DETAIL 6  
3/4" = 1'-0" S-301



DETAIL 7  
3/4" = 1'-0" S-301

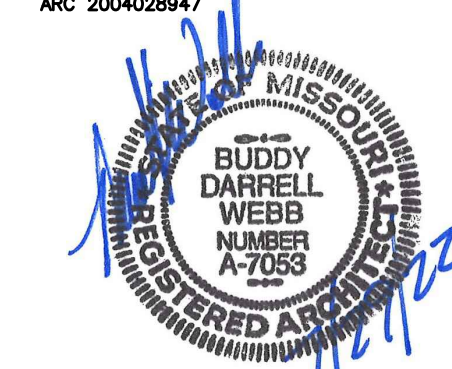


DETAIL 8  
3/4" = 1'-0" S-301



TYPICAL FOOTING STEP  
(IF REQUIRED) 9  
S-301





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CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPPELO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPPELO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-101  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**FLOOR PLAN  
(ALTERNATE NO. 1)**

SHEET NUMBER:

**A-101**

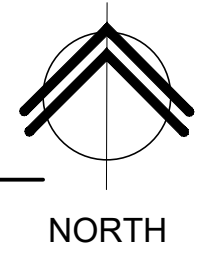
16 OF 36 SHEETS  
07/29/2022

**WALL TYPES**

NOTE:  
REFER TO INTERIOR WALL AND CEILING GENERAL NOTES FOR  
ADDITIONAL REQUIREMENTS.

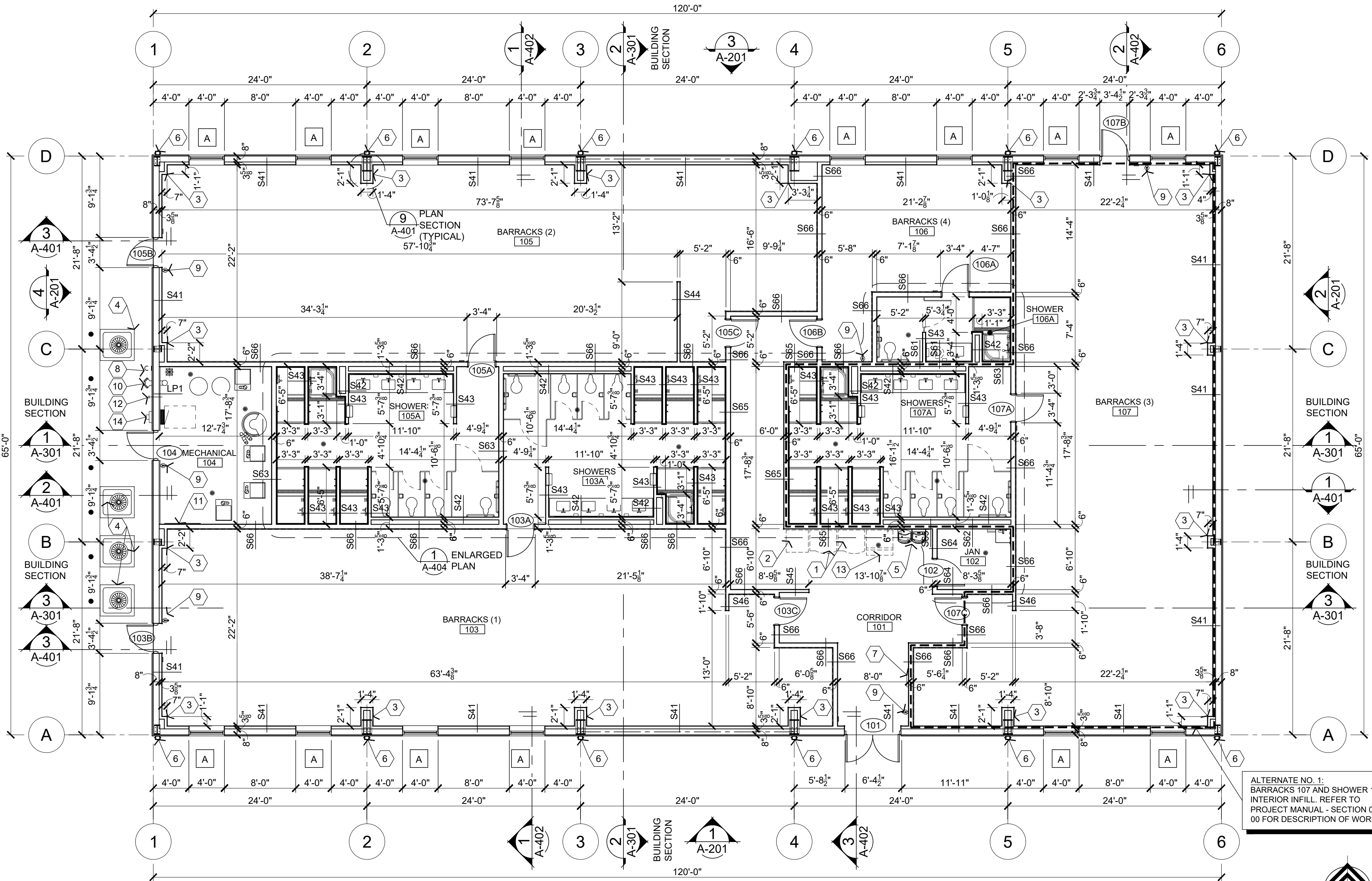
S41		COLD FORM METAL FRAMING WALL: -362S162-33 (3 5/8"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON EXPOSED SIDE. -EXTEND ASSEMBLY TO 8'-0" ABOVE FINISH FLOOR.
S42		COLD FORM METAL FRAMING WALL: -362S162-33 (3 5/8"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. AND 16" O.C. AT CEMENT BACKING BOARD LOCATIONS. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON EXPOSED SIDE. (PROVIDE 5/8" CEMENT BACKING BOARD AT SHOWER ENCLOSURE SURFACES IN LIEU OF GYPSUM BOARD). -EXTEND ASSEMBLY TO 8'-0" ABOVE FINISH FLOOR.
S43		COLD FORM METAL FRAMING WALL: -362S162-33 (3 5/8"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. AND 16" O.C. AT CEMENT BACKING BOARD LOCATIONS. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. (PROVIDE 5/8" CEMENT BACKING BOARD AT SHOWER ENCLOSURE SURFACES IN LIEU OF GYPSUM BOARD). -EXTEND ASSEMBLY TO 8'-0" ABOVE FINISH FLOOR.
S44		COLD FORM METAL FRAMING WALL: -362S162-33 (3 5/8"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. -EXTEND ASSEMBLY TO 10'-6" ABOVE FINISH FLOOR.
S45		COLD FORM METAL FRAMING WALL: -362S162-33 (3 5/8"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. -EXTEND ASSEMBLY TO 9'-6" ABOVE FINISH FLOOR.
S46		COLD FORM METAL FRAMING WALL: -362S162-33 (3 5/8"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. -50F125-18 (1/2"-25 GA.) COLD FORM RESILIENT CHANNELS HORIZONTAL AT 24" O.C. ON ONE SIDE WITH OUTSIDE LEG UP. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. -EXTEND ASSEMBLY TO 10'-6" ABOVE FINISH FLOOR.
S61		COLD FORM METAL FRAMING WALL: -600S162-33 (6"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. -6" UNFACED SOUND ATTENUATION BATT INSULATION IN CAVITY. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON EXPOSED SIDE. -EXTEND ASSEMBLY TO 8'-0" ABOVE FINISH FLOOR.
S62		COLD FORM METAL FRAMING WALL: -600S162-33 (6"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON EXPOSED SIDE. -EXTEND ASSEMBLY TO 8'-0" ABOVE FINISH FLOOR.
S63		COLD FORM METAL FRAMING WALL: -600S162-33 (6"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. AND 16" O.C. AT CEMENT BACKING BOARD LOCATIONS) -6" UNFACED SOUND ATTENUATION BATT INSULATION IN CAVITY. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. (PROVIDE 5/8" CEMENT BACKING BOARD AT SHOWER ENCLOSURE SURFACES IN LIEU OF GYPSUM BOARD). -EXTEND ASSEMBLY TO 8'-0" ABOVE FINISH FLOOR.
S64		COLD FORM METAL FRAMING WALL: -600S162-33 (6"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. AND 16" O.C. AT CEMENT BACKING BOARD LOCATIONS. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. (PROVIDE 5/8" CEMENT BACKING BOARD AT SHOWER ENCLOSURE SURFACES IN LIEU OF GYPSUM BOARD). -EXTEND ASSEMBLY TO BOTTOM OF ROOF DECK. -(1) HOUR FIRE RATED PARTITION EQUAL TO UL DESIGN NO. U419 ASSEMBLY.
S65		COLD FORM METAL FRAMING WALL: -600S162-33 (6"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. AND 16" O.C. AT CEMENT BACKING BOARD LOCATIONS) -6" UNFACED SOUND ATTENUATION BATT INSULATION IN CAVITY. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. (PROVIDE 5/8" CEMENT BACKING BOARD AT SHOWER ENCLOSURE SURFACES IN LIEU OF GYPSUM BOARD). -EXTEND ASSEMBLY TO BOTTOM OF ROOF DECK. -(1) HOUR FIRE RATED PARTITION EQUAL TO UL DESIGN NO. U419 ASSEMBLY.
S66		COLD FORM METAL FRAMING WALL: -600S162-33 (6"-20 GA.) COLD FORM METAL STUD FRAMING AT 24" O.C. AND 16" O.C. AT CEMENT BACKING BOARD LOCATIONS. -50F125-18 (1/2"-25 GA.) COLD FORM RESILIENT CHANNELS HORIZONTAL AT 24" O.C. ON ONE SIDE WITH OUTSIDE LEG UP. -6" UNFACED SOUND ATTENUATION BATT INSULATION IN CAVITY. -ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. (PROVIDE 5/8" CEMENT BACKING BOARD AT SHOWER ENCLOSURE SURFACES IN LIEU OF GYPSUM BOARD). -EXTEND ASSEMBLY TO BOTTOM OF ROOF DECK. -(1) HOUR FIRE RATED PARTITION EQUAL TO UL DESIGN NO. U419 ASSEMBLY. -SOUND TRANSMISSION RATING STC 50 MINIMUM.
LP1		PRE-ENGINEERED METAL BUILDING WALL: -PRE-ENGINEERED METAL BUILDING EXTERIOR WALL SYSTEM (REFER TO WALL SECTIONS). -PRE-ENGINEERED METAL BUILDING INTERIOR SHEET METAL (28 GA.) LINER PANEL SYSTEM TO 7'-4" ABOVE FINISH FLOOR.

ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO  
PROJECT MANUAL - SECTION 01 23  
00 FOR DESCRIPTION OF WORK.



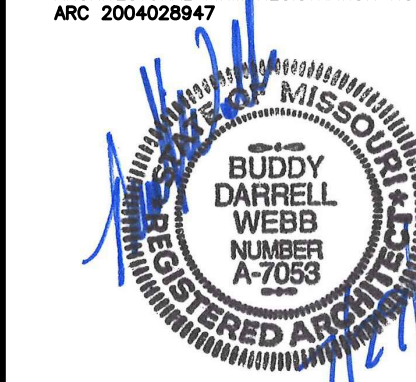
**SYMBOLS LEGEND**

(101)	DOOR MARK, REFER TO DOOR SCHEDULE.
(2)	KEY NOTE, REFER TO KEY NOTES
A	WINDOW MARK, REFER TO WINDOW SCHEDULE
BARRACKS (3)	ROOM MARK
107	
SXX	WALL TYPE, REFER TO WALL TYPES
---	AREA OF ALTERNATE NO. 1



**1 FLOOR PLAN**  
A-101 1/8" = 1'-0"





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461 COUNTY ROAD 517  
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PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

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ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**ROOF PLAN**

SHEET NUMBER:

**A-102**

17 OF 36 SHEETS  
07/29/2022

**KEY NOTES**

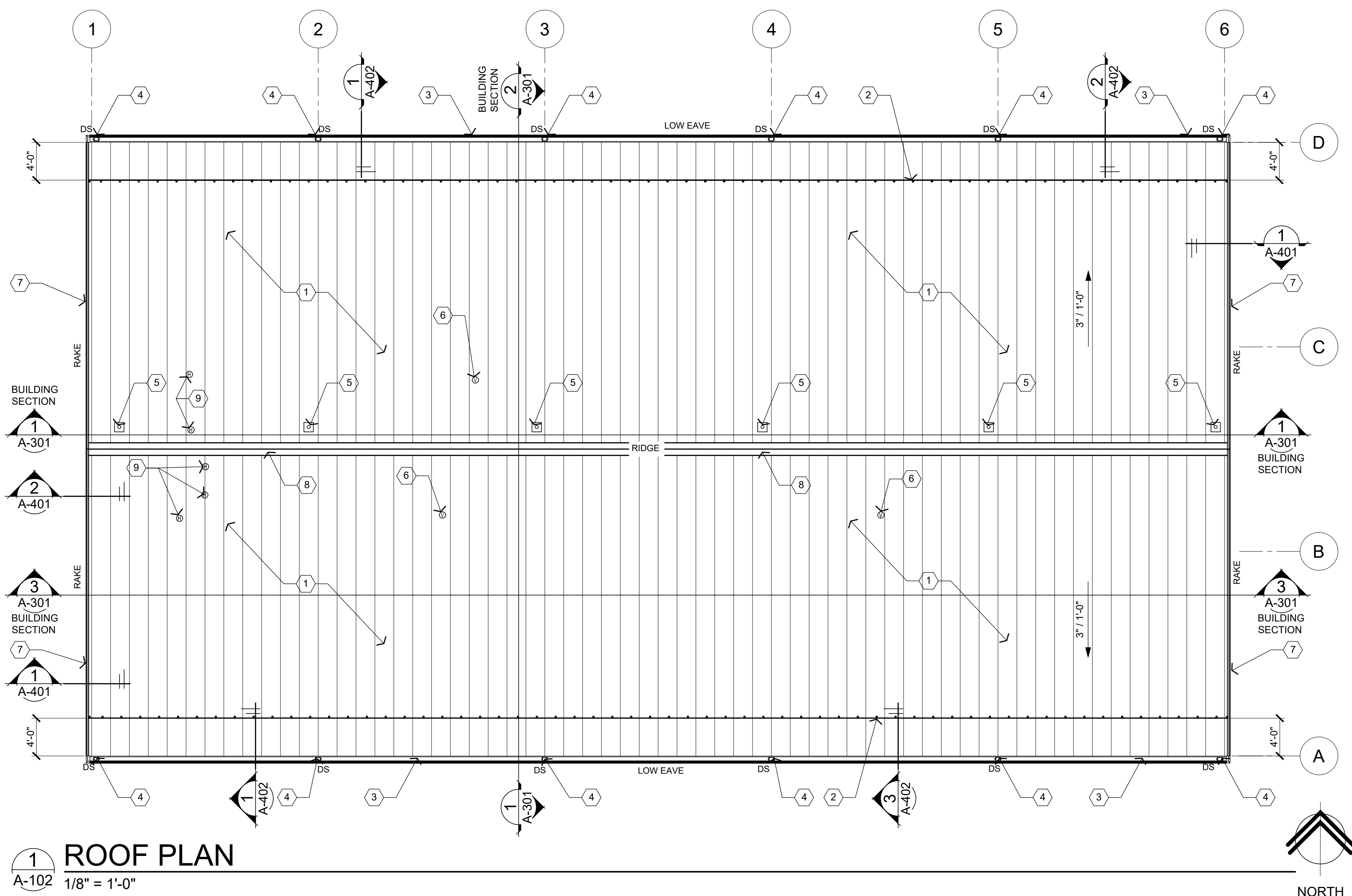
- 1 PRE-ENGINEERED METAL BUILDING SHEET METAL STANDING SEAM (STRUCTURAL TRAPEZOIDAL PROFILE) ROOFING PANEL SYSTEM OVER THERMAL BLOCKS (R-S).
- 2 SNOW GUARD SYSTEM (EXTEND FULL LENGTH OF ROOF) ATTACHED WITH ALUMINUM S-S CLAMPS.
- 3 PRE-ENGINEERED METAL BUILDING SHEET METAL GUTTER (TYPICAL). REFER TO DETAIL 2/A-102. SIZES BY P.E.M.B. MANUFACTURER.
- 4 PRE-ENGINEERED METAL BUILDING SHEET METAL DOWNSPOUT (DS) SYSTEM. SIZES BY P.E.M.B. MANUFACTURER.
- 5 FALL PROTECTION ANCHOR SYSTEM ATTACHED WITH ALUMINUM S-S CLAMPS. INSTALL 2'-0" MIN FROM EDGE OF ROOF, CENTER BETWEEN METAL ROOF PANEL SEAMS AND SPACE EQUALLY. COORDINATE WITH PRE-ENGINEERED METAL ROOF SYSTEM MANUFACTURER FOR INSTALLATION.
- 6 PLUMBING VENT THRU ROOF (VTR). REFER TO 5/A-102 AND PLUMBING DRAWINGS FOR SIZES. CENTER BETWEEN ROOF PANEL SEAMS.
- 7 PRE-ENGINEERED METAL BUILDING SHEET METAL RAKE EDGE FLASHING. REFER TO DETAIL 3/A-102.
- 8 PRE-ENGINEERED METAL BUILDING SHEET METAL RIDGE CAP FLASHING - FIXED AT RIDGE. REFER TO DETAIL 4/A-102.
- 9 MECHANICAL SYSTEM HOT VENT FLUE. REFER TO DETAIL 1/A-501 AND MECHANICAL DRAWINGS FOR TYPES AND SIZES.

**GENERAL NOTES**

- A REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B REFER TO PRE-ENGINEERED METAL BUILDING SUBMITTALS FOR ADDITIONAL REQUIREMENTS.
- C REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL ROOF-MOUNTED EQUIPMENT SIZES AND TYPES, INCLUDING VENT PIPES, FLUES, AND EXHAUST. ALL PIPE FLASHING PENETRATIONS THROUGH ROOF SHALL BE TYPE APPROVED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER WITH SHEET METAL FINISHES TO MATCH ROOF PANEL. PENETRATIONS WITH DIAMETER LESS THAN SPACING OF ROOF PANEL RIBS SHALL PENETRATE IN THE CENTER OF THE ROOF PANEL.
- D ALL SUPPORTS FOR EXPOSED ROOF MOUNTED PIPING, CONDUIT, FALL PROTECTION DEVICES, SNOW GUARDS, ETC. TO BE MOUNTED ON PRE-MANUFACTURED ALUMINUM S-S CLAMPS ATTACHED TO TOP OF PRE-ENGINEERED METAL BUILDING ROOF SEAMS. ALL FRAMING, SUPPORTS, AND FASTENERS SHALL BE NON-CORROSIVE MATERIAL TYPES. EXPOSED FINISHES TO MATCH ROOF COLOR, UNLESS OTHERWISE INDICATED.
- E ALL ROOF PENETRATIONS TO BE 3'-6" MINIMUM FROM ROOF EDGE PERIMETERS.
- F SHEET METAL CONSTRUCTION SHALL COMPLY WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN STANDARDS AND RECOMMENDATIONS.
- G ROOFING CONSTRUCTION SHALL COMPLY WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) DESIGN STANDARDS AND RECOMMENDATIONS.
- H REFER TO EXTERIOR FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS.

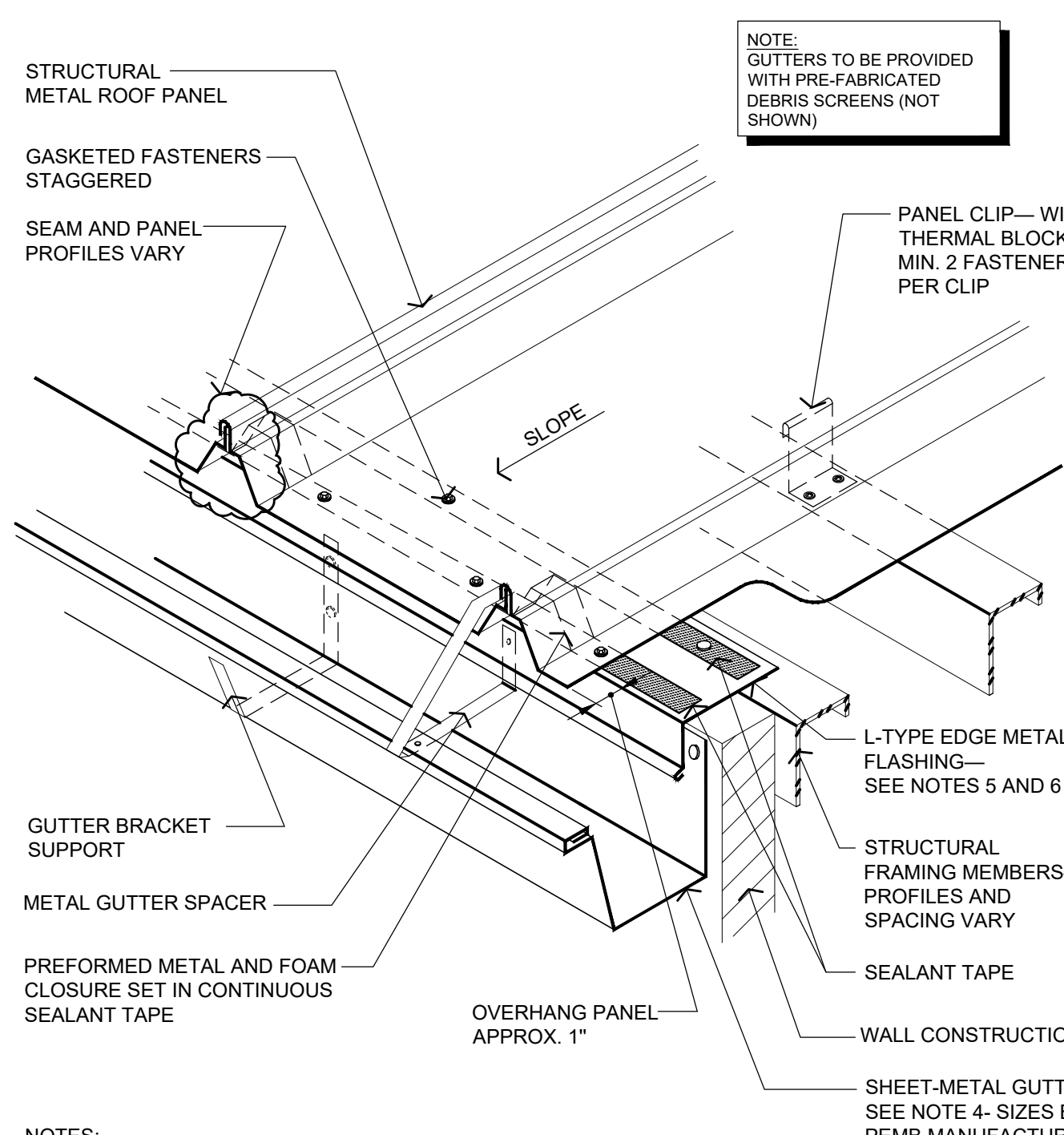
**SYMBOLS LEGEND**

- GAS — EXPOSED ROOF TOP MECHANICAL GAS PIPING WITH FLOATING SUPPORTS
- COND — EXPOSED ROOF TOP MECHANICAL CONDENSATE PIPING WITH SUPPORTS
- (V) VENT THROUGH ROOF
- (H) HOT VENT
- (E) MECHANICAL EXHAUST UNIT
- MAU/P ROOF TOP UNIT WITH CRICKET
- FALL — FALL PROTECTION SYSTEM
- SNOW — SNOW GUARD SYSTEM
- DS LOCATION OF DOWNSPOUTS



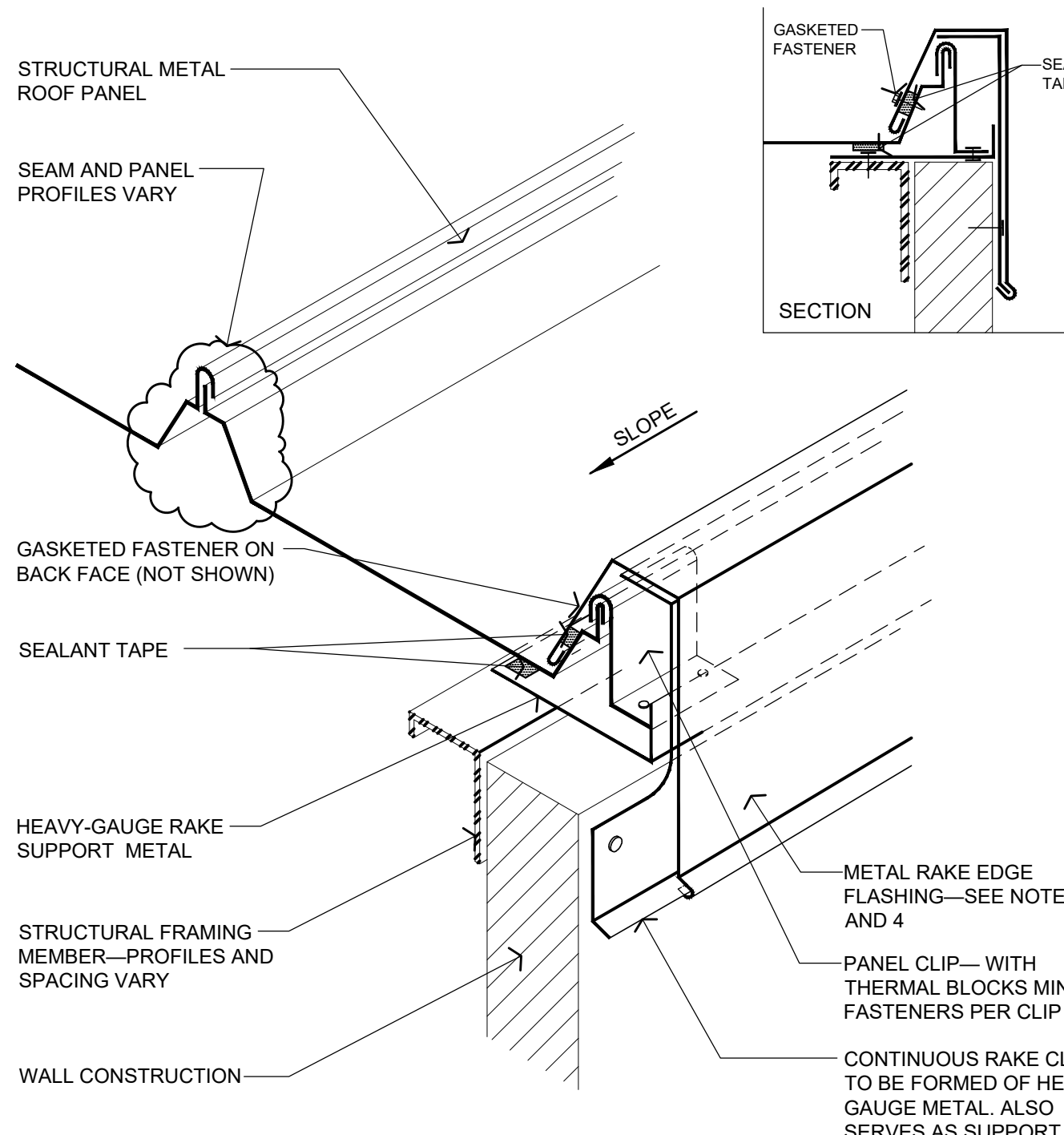
**1 ROOF PLAN**

A-102 1/8" = 1'-0"



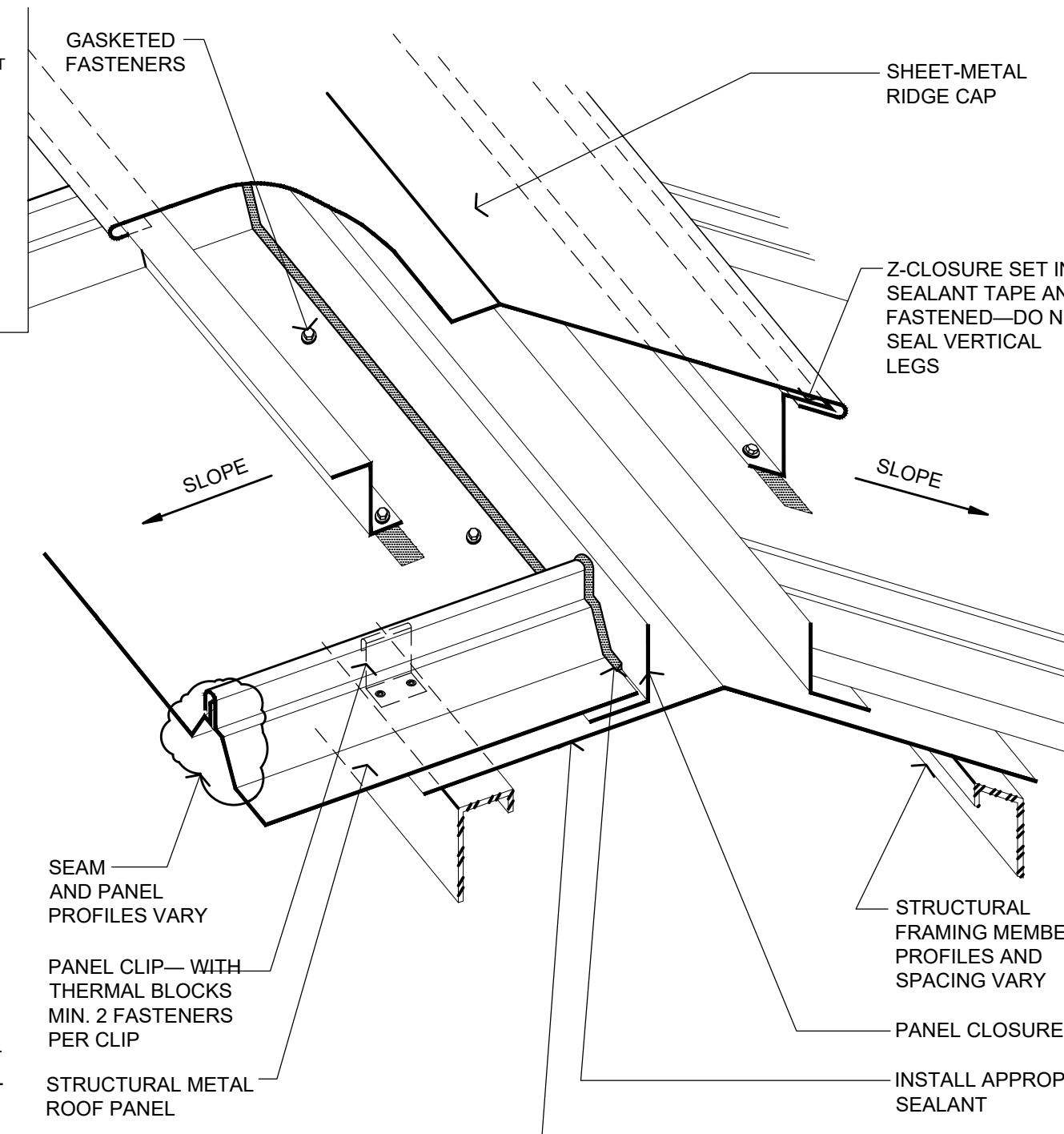
- NOTES:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
  2. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
  3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION CONTROL AND REROOFING FOR MORE INFORMATION ON GUTTERS.
  4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION CONTROL AND REROOFING FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
  5. REFER TO THE NRCA INTRODUCTION IN CHAPTER 10—CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

**2 EAVE FLASHING WITH GUTTER—FIXED AT EAVE**  
A-102 NOT TO SCALE



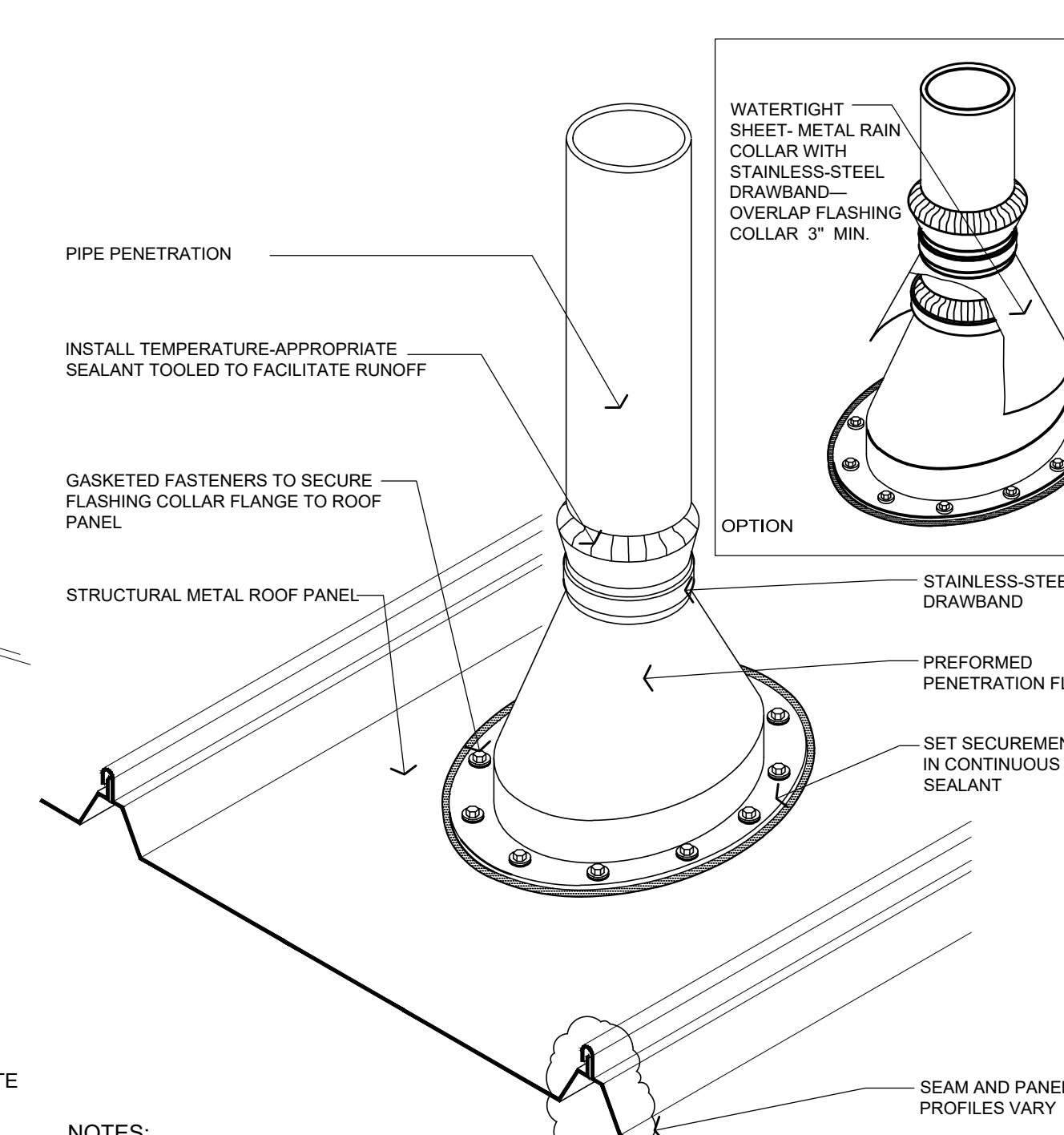
- NOTES:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
  2. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
  3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION CONTROL AND REROOFING FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
  4. REFER TO THE NRCA INTRODUCTION IN CHAPTER 10—CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

**3 RAKE EDGE FLASHING - STARTER PANEL**  
A-102 NOT TO SCALE



- NOTES:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
  2. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
  3. THIS FIXES THE PANEL ALONG THE RIDGE.
  4. REFER TO THE NRCA INTRODUCTION IN CHAPTER 10—CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

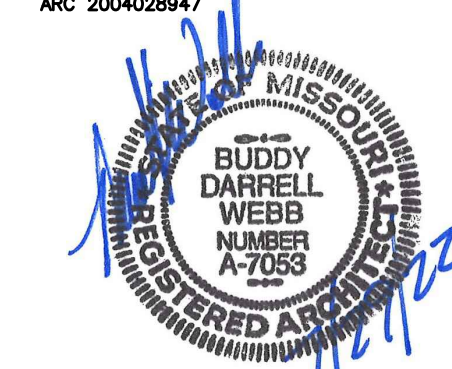
**4 RIDGE CAP FLASHING - FIXED AT RIDGE**  
A-102 NOT TO SCALE



- NOTES:
1. NRCA RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
  2. IF FIELD PANELS OVERLAP AT THE PENETRATION, ATTACHMENT OF THE DOWNSLOPE PANEL ALONG ITS UPSLOPE END MAY BE NECESSARY.
  3. VENT STACKS AND OTHER PIPES SHOULD HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
  4. FOR HOT PIPES, SPECIFIC HIGH-TEMPERATURE BOOTS SHOULD BE USED.
  5. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
  6. REFER TO THE NRCA INTRODUCTION IN CHAPTER 10—CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

**5 PIPE PENETRATION FLASHING**  
A-102 NOT TO SCALE





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WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
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ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-201  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**EXTERIOR  
ELEVATIONS**

SHEET NUMBER:

**A-201**

18 OF 36 SHEETS  
07/29/2022

**EXTERIOR FINISH  
SCHEDULE**

**PRE-ENGINEERED METAL BUILDING SYSTEMS**

**KEY NOTE NO. 2:**

TYPE: EXTERIOR WALL PANEL SYSTEM  
MANUFACTURER: CHIEF BUILDINGS OR EQUAL (BASIS FOR DESIGN)  
SERIES: CHIEF CS/AP PANEL WALL SYSTEM  
FINISH: PRE-FINISHED  
COLOR: ALMOND WHITE (AW) (MATCH EXISTING FACILITY FINISHES)

**KEY NOTE NO. 3:**

TYPE: STANDING SEAM, TRAPEZOIDAL RIB  
MANUFACTURER: CHIEF BUILDINGS OR EQUAL (BASIS FOR DESIGN)  
SERIES: MSC/STC PANELS  
FINISH: PRE-FINISHED  
COLOR: POLAR WHITE (PW) (MATCH EXISTING FACILITY FINISHES)

**KEY NOTE NO. 4:**

TYPE: SHEET METAL FLASHING, FASCIA, OR TRIM  
MANUFACTURER: CHIEF BUILDINGS OR EQUAL (BASIS FOR DESIGN)  
FINISH: PRE-FINISHED  
COLOR: POLAR WHITE (PW) (MATCH EXISTING FACILITY FINISHES)

**KEY NOTE NO. 5:**

TYPE: SHEET METAL GUTTER AND DOWNSPOUT SYSTEM  
MANUFACTURER: CHIEF BUILDINGS OR EQUAL (BASIS FOR DESIGN)  
FINISH: PRE-FINISHED  
COLOR: POLAR WHITE (PW) (MATCH EXISTING FACILITY FINISHES)

**KEY NOTE NO. 6:**

TYPE: DOOR TRIM  
MANUFACTURER: CHIEF BUILDINGS OR EQUAL (BASIS FOR DESIGN)  
FINISH: PRE-FINISHED  
COLOR: PARCHMENT (PA) (MATCH EXISTING FACILITY FINISHES)

**OPENINGS**

**KEY NOTE NO. 7:**

TYPE: HOLLOW METAL DOORS AND FRAMES  
MANUFACTURER: REFER TO PROJECT MANUAL  
FINISH: FACTORY PRIMED AND FIELD PAINTED  
COLOR: MATCH ADJACENT METAL PANEL FIELD COLOR

**KEY NOTE NO. 8:**

TYPE: ALUMINUM ENTRANCES AND STOREFRONTS  
MANUFACTURER: REFER TO PROJECT MANUAL  
FINISH: DARK BRONZE  
GLAZING: (REFER TO GLAZING SCHEDULE)

**PAINTING**

**KEY NOTE NO. 10:**

TYPE: STEEL BOLLARD (REFER TO CIVIL DRAWINGS)  
MANUFACTURER: REFER TO PROJECT MANUAL  
FINISH: FIELD PRIMED AND PAINTED  
COLOR: DARK BRONZE (MATCH ALUMINUM ENTRANCES AND STOREFRONTS)

**ELECTRICAL LIGHTING**

**KEY NOTE NO. 12:**

MFG: (REFER ELECTRICAL DRAWINGS)  
FINISH: DARK BRONZE

**MECHANICAL WALL PENETRATIONS**

**KEY NOTE NO. 18:**

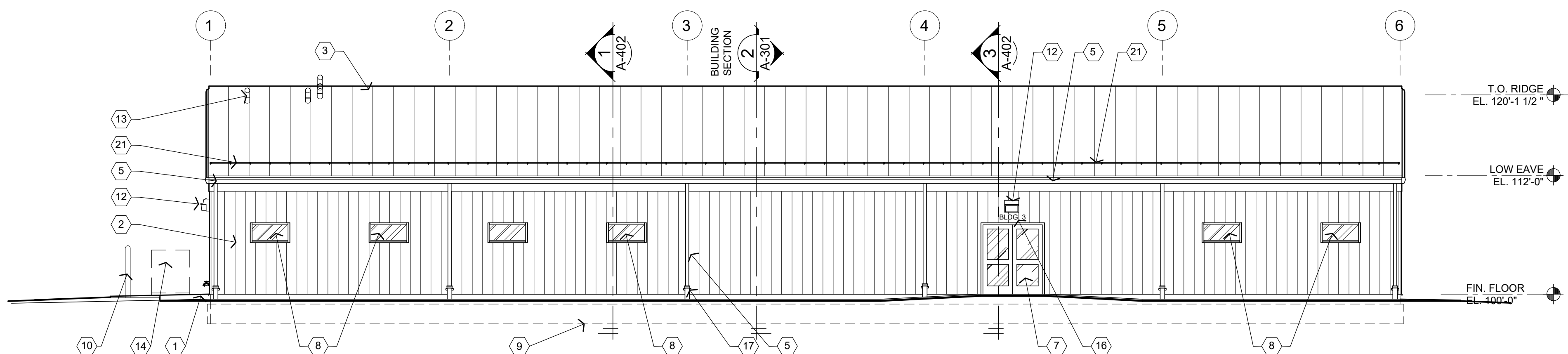
MFG: (REFER TO MECHANICAL DRAWINGS)  
FINISH: DARK BRONZE (MATCH ALUMINUM ENTRANCES AND STOREFRONTS)

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO PRE-ENGINEERED METAL BUILDING SUBMITTALS FOR ADDITIONAL REQUIREMENTS.
- (C) FOR DOOR AND WINDOW TYPES, REFER TO FLOOR PLANS AND SCHEDULES.
- (D) REFER TO EXTERIOR FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FINAL MATERIAL COLORS, PATTERNS AND FINISHES TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF CUSTOM COLORS.
- (E) REFER TO CIVIL DRAWINGS FOR ADJACENT SITE DEVELOPMENT CONSTRUCTION.
- (F) REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SYSTEM TYPES.
- (G) REFER TO WALL SECTIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- (H) PAINT ALL EXPOSED METAL SURFACES TO MATCH ADJACENT MATERIAL COLORS, UNLESS OTHERWISE INDICATED.

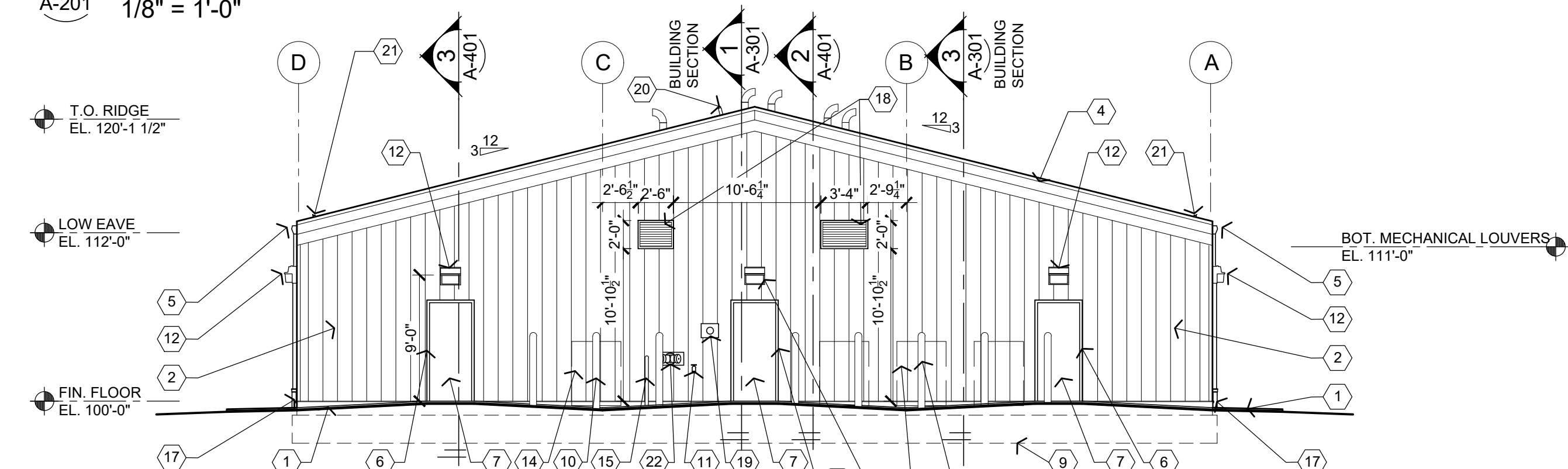
**KEY NOTES**

- (1) CAST IN PLACE CONCRETE SLABS OR SIDEWALKS, REFER TO CIVIL DRAWINGS.
- (2) PRE-ENGINEERED METAL BUILDING EXTERIOR WALL PANEL SYSTEM.
- (3) PRE-ENGINEERED BUILDING SHEET METAL ROOFING SYSTEM.
- (4) PRE-ENGINEERED METAL BUILDINGS SHEET METAL FLASHING, FASCIA, CLOSURE, OR TRIM.
- (5) PRE-ENGINEERED METAL BUILDING SHEET METAL GUTTER AND DOWNSPOUT SYSTEM. REFER TO ROOF PLAN.
- (6) PRE-ENGINEERED METAL BUILDING SHEET METAL OPENING TRIM.
- (7) EXTERIOR DOOR AND FRAME SYSTEM, REFER TO FLOOR PLAN AND DOOR SCHEDULE FOR TYPE.
- (8) EXTERIOR WINDOW SYSTEM, REFER TO FLOOR PLAN AND WINDOW SCHEDULE FOR TYPES.
- (9) APPROXIMATE LINE OF FOUNDATION, REFER TO STRUCTURAL DRAWINGS.
- (10) STEEL BOLLARD, REFER TO CIVIL DRAWINGS.
- (11) HOSE BIB, REFER TO PLUMBING DRAWINGS.
- (12) LIGHT FIXTURE (CENTER OF FIXTURE AT 9'-0" A.F.F.), REFER TO ELECTRICAL DRAWINGS.
- (13) MECHANICAL/PLUMBING ROOF MOUNTED EQUIPMENT OR ROOF PENETRATIONS, REFER TO ROOF PLAN.
- (14) MECHANICAL CONDENSING UNITS, REFER TO MECHANICAL DRAWINGS.
- (15) GAS PIPING (PROPANE) - REFER TO PLUMBING DRAWINGS.
- (16) BUILDING ADDRESS IDENTIFICATION NUMBER "T.B.D." SIGN IN 6" HIGH HELVETICA BOLD CHARACTERS ATTACHED TO THE BUILDING.
- (17) DOWNSPOUT COLLECTION SYSTEM. REFER TO CIVIL DRAWINGS.
- (18) MECHANICAL WALL PENETRATION, REFER TO MECHANICAL DRAWINGS AND DETAIL S/A-201. PROVIDE FRAMING, FLASHING, ANCHORS AND SEALANT AS REQUIRED FOR COMPLETE INSTALLATION.
- (19) ELECTRICAL METER, REFER TO ELECTRICAL DRAWINGS.
- (20) FALL PROTECTION ANCHORS. REFER TO ROOF PLAN.
- (21) CONTINUOUS ICE GUARD, REFER TO PROJECT MANUAL.
- (22) FIRE DEPARTMENT CONNECTION (FDC), REFER TO PLUMBING DRAWINGS.



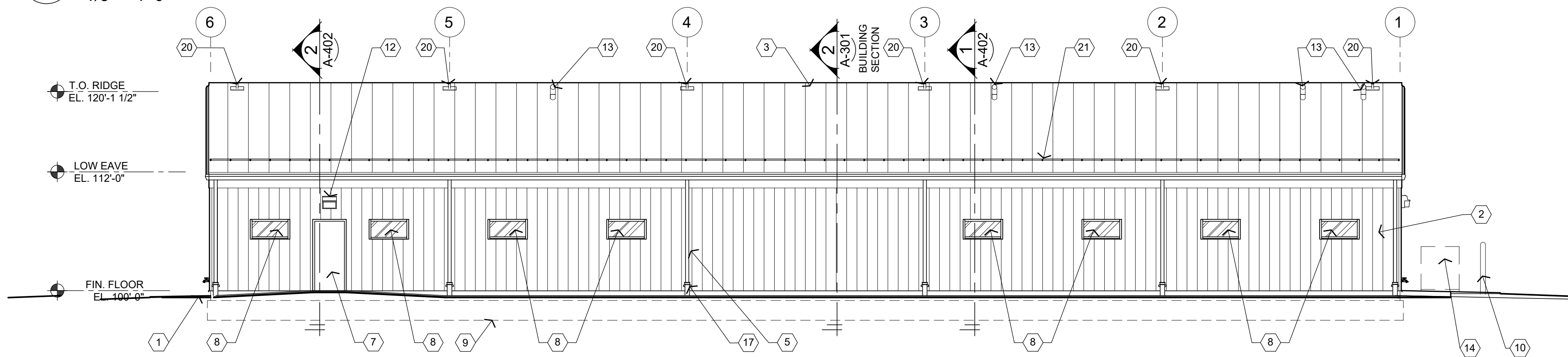
**1 SOUTH ELEVATION**

A-201 1/8" = 1'-0"



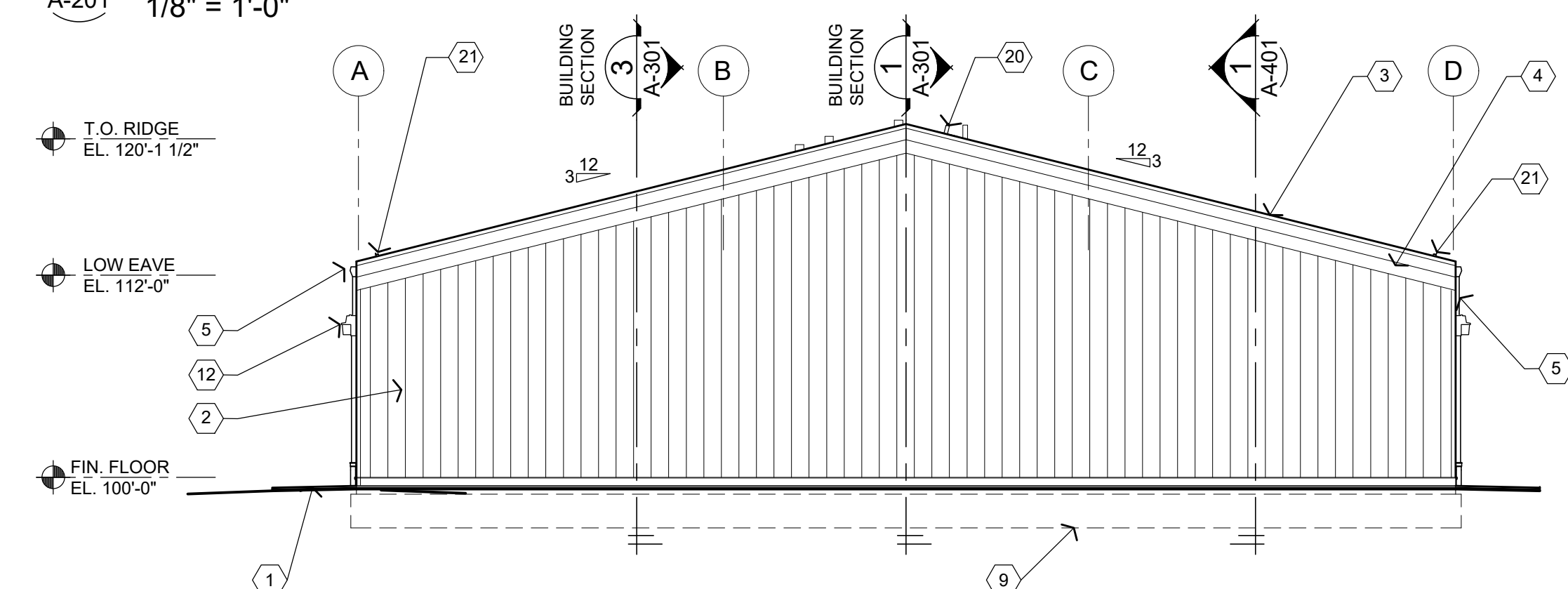
**2 EAST ELEVATION**

A-201 1/8" = 1'-0"



**3 NORTH ELEVATION**

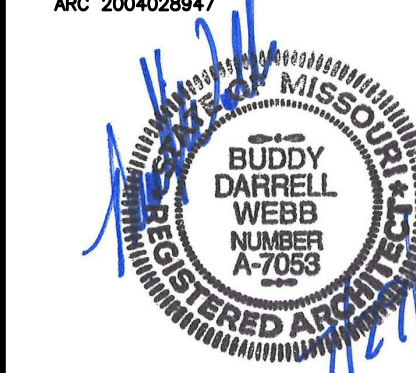
A-201 1/8" = 1'-0"



**4 WEST ELEVATION**

A-201 1/8" = 1'-0"





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DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**BUILDING  
SECTIONS  
(ALTERNATE NO. 1)**

SHEET NUMBER:

**A-301**

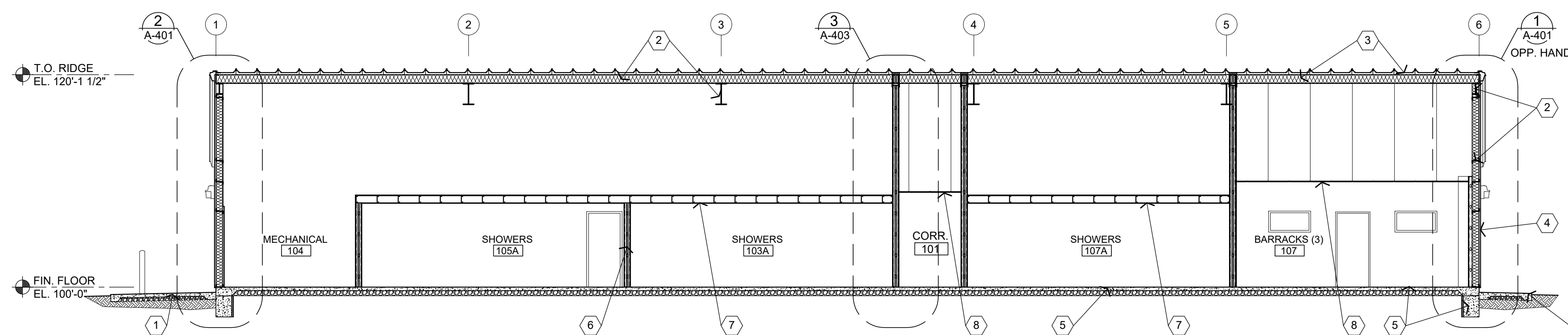
19 OF 36 SHEETS  
07/29/2022

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (C) REFER TO PRE-ENGINEERED METAL BUILDING SUBMITTALS FOR ADDITIONAL REQUIREMENTS.
- (D) REFER TO EXTERIOR AND INTERIOR FINISH SCHEDULES FOR FINISH TYPES AND LOCATIONS.

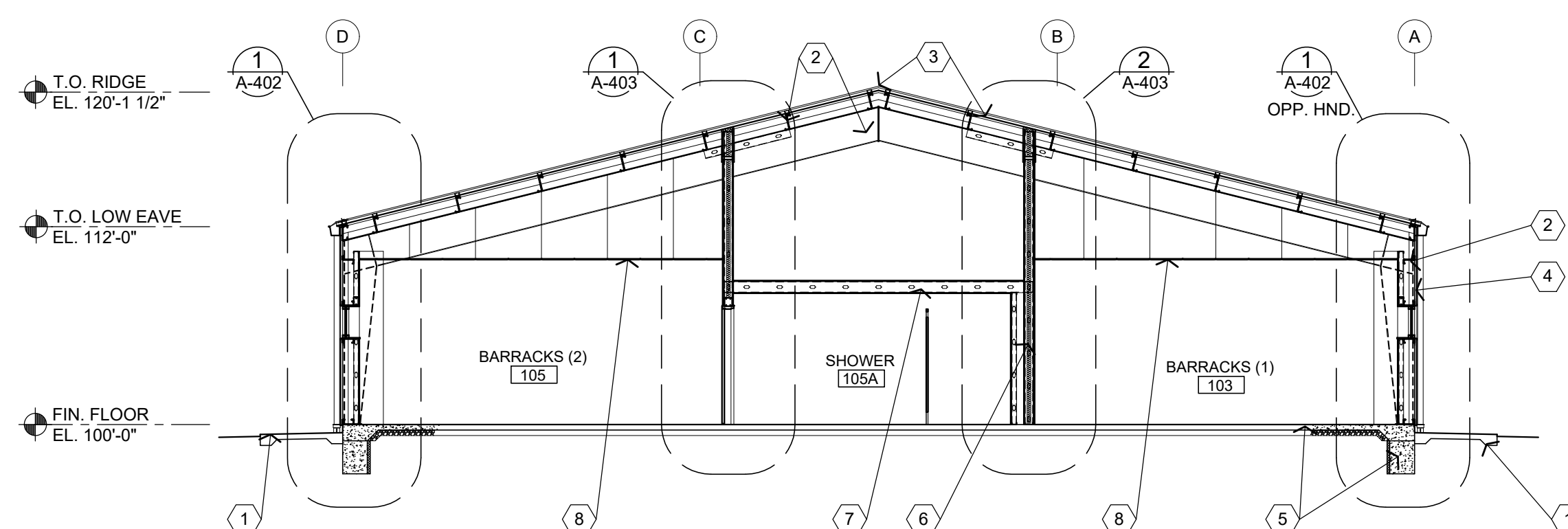
**KEY NOTES**

- (1) CAST IN PLACE CONCRETE SLAB OR SIDEWALK, REFER TO CIVIL DRAWINGS.
- (2) PRE-ENGINEERED METAL BUILDING PRIMARY AND SECONDARY STRUCTURAL, REFER TO WALL SECTIONS AND SUBMITTALS.
- (3) PRE-ENGINEERED ROOF SYSTEM, REFER TO ROOF PLAN AND SUBMITTALS.
- (4) PRE-ENGINEERED METAL BUILDING WALL PANEL SYSTEM, REFER TO WALL SECTIONS AND SUBMITTALS.
- (5) CONCRETE SLAB ON GRADE AND FOOTINGS, REFER TO STRUCTURAL DRAWINGS.
- (6) INTERIOR PARTITIONS, REFER TO FLOOR PLANS.
- (7) COLD FORM FRAMING AND GYPSUM BOARD CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (8) SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN.

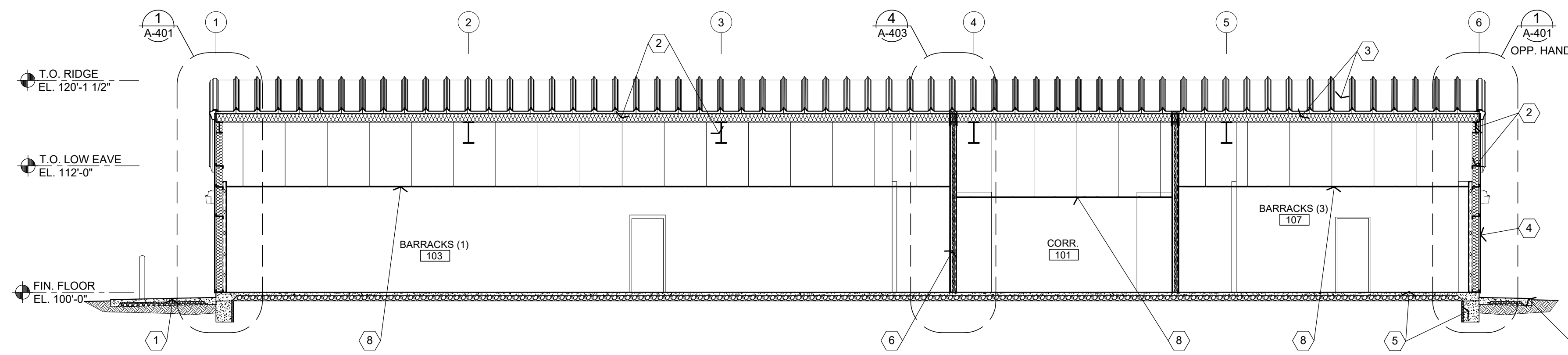


ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO  
PROJECT MANUAL - SECTION 01 23  
00 FOR DESCRIPTION OF WORK.

**1 BUILDING SECTION**  
A-301 1/8" = 1'-0"



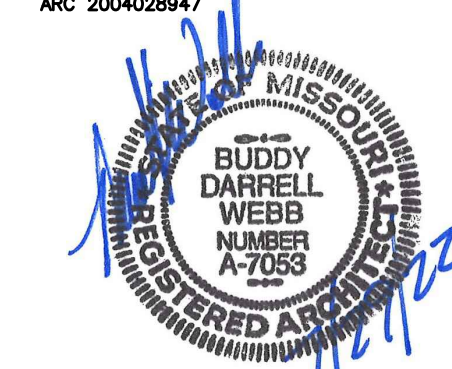
**2 BUILDING SECTION**  
A-301 1/8" = 1'-0"



ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO  
PROJECT MANUAL - SECTION 01 23  
00 FOR DESCRIPTION OF WORK.

**3 BUILDING SECTION**  
A-301 1/8" = 1'-0"





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CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-401  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**WALL SECTIONS  
(ALTERNATE NO. 1)**

SHEET NUMBER:

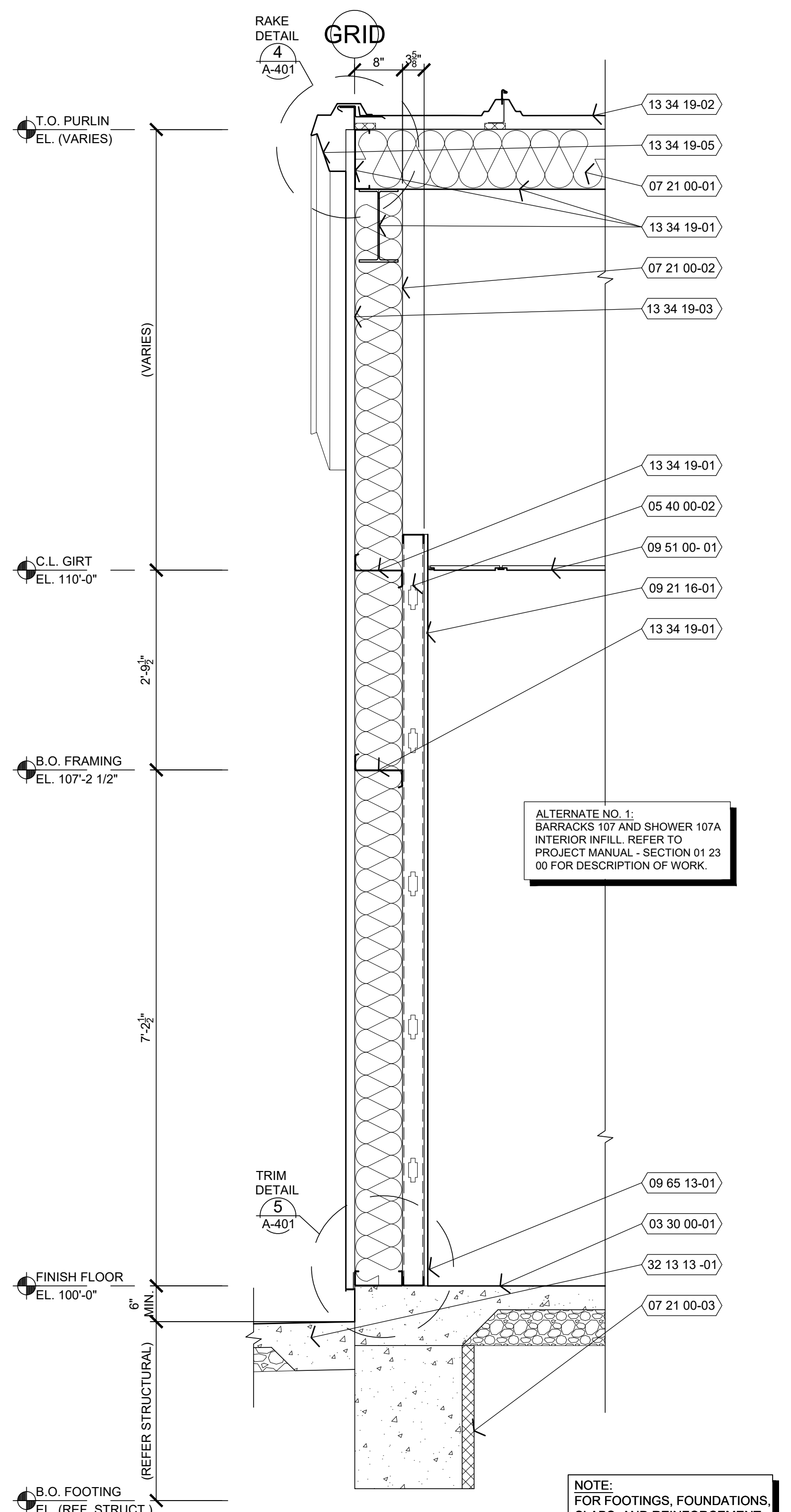
**A-401**

20 OF 36 SHEETS  
07/29/2022

**KEY NOTES**

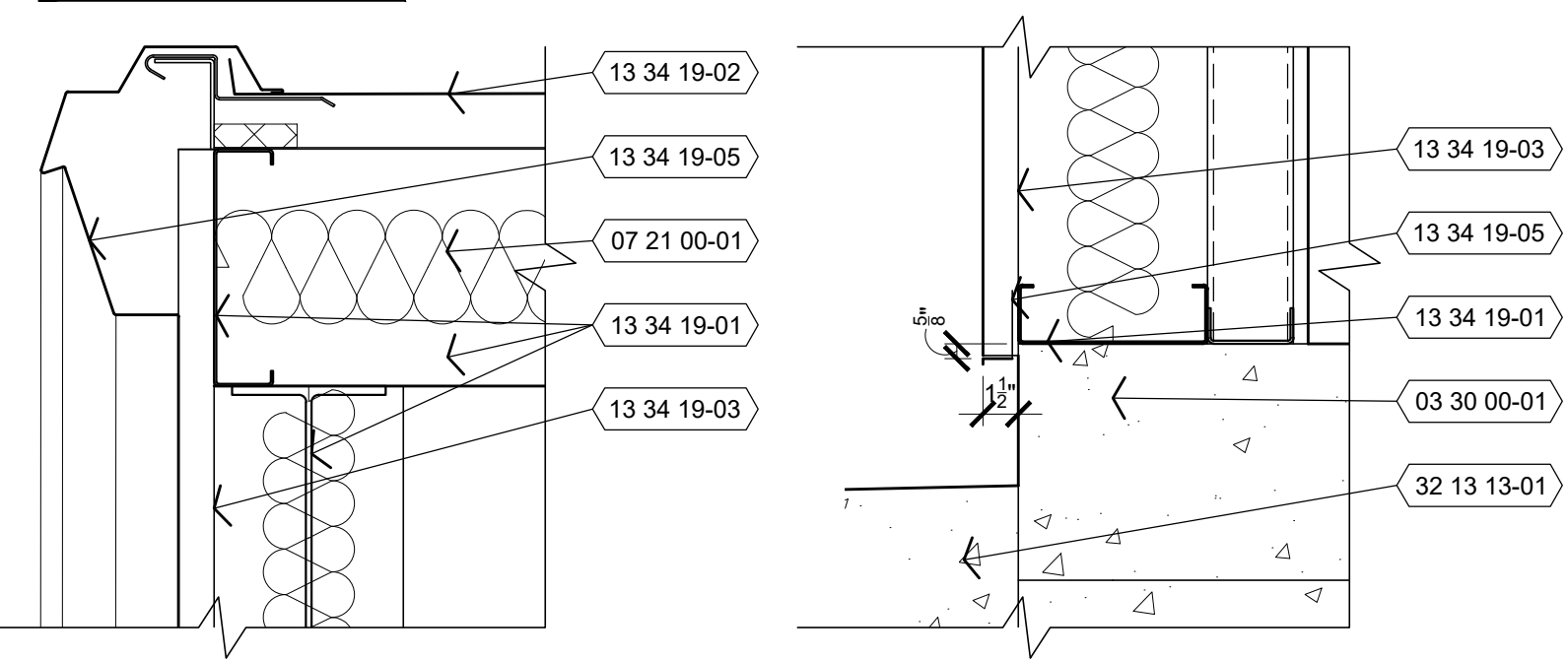
REFER TO SHEET A-301 FOR GENERAL NOTES.

- 03 30 00-01 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-01 COLD FORM METAL BOX HEADER. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-02 362S162-33 COLD FORM METAL FRAMING AT 24" O.C. REFER TO INTERIOR WALL TYPE FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-03 600S162-33 COLD FORM METAL FRAMING AT 24" O.C. REFER TO INTERIOR WALL TYPE FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-04 800S162 COLD FORM METAL FRAMING AT 24" O.C. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-05 50F125-18 COLD FORM RESILIENT CHANNELS HORIZONTAL AT 24" O.C. ON ONE SIDE WITH OUTSIDE LEG UP.
- 05 40 00-06 COLD FORM METAL DEFLECTION CHANNEL.
- 05 40 00-07 COLD FORM METAL TOP AND BOTTOM TRACK CONTINUOUS.
- 06 10 00-01 3/4" FIRE TREATED PLYWOOD DECKING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 06 61 16-01 SOLID SURFACE FABRICATION. REFER TO INTERIOR FINISHES SCHEDULE.
- 07 21 00-01 PRE-ENGINEERED METAL BUILDING ROOF BATT INSULATION (R-36) LINEAR SYSTEM. VAPOR BARRIER SUPPORTED BY HIGH STRENGTH STEEL STRAPS ATTACHED TO BOTTOM OF PRE-ENGINEERED METAL BUILDING ROOF PURLINS WITH (1) LAYER 8" (R-25) UN-FACED BATT INSULATION PARALLEL WITH PURLIN CAVITY AND (1) LAYER 3 1/2" (R-11) UN-FACED BATT INSULATION PERPENDICULAR OVER TOP OF ROOF PURLINS. SEAL ALL JOINTS WITH TAPE.
- 07 21 00-02 PRE-ENGINEERED METAL BUILDING CAVITY WALL. UNFACED BATT INSULATION (R-25) SYSTEM (UNCOMPRESSED) WITH VAPOR BARRIER SUPPORTED WITH HIGH STRENGTH STEEL STRAPS ATTACHED TO GIRTS. SEAL ALL JOINTS WITH TAPE.
- 07 21 00-03 2" RIGID INSULATION BOARD (R-10).
- 07 21 00-04 8" UNFACED SOUND ATTENUATION BATT INSULATION. REFER TO FLOOR PLAN AND WALL TYPES.
- 07 72 00-01 REMOVABLE GUTTER DEBRIS SCREENS.
- 07 72 53-01 SNOW GUARDS. REFER TO ROOF PLAN.
- 07 84 00-01 FIRE STOPPING COMPRESSIBLE MINERAL WOOL.
- 07 84 00-02 FIRE STOPPING SEALANT CONTINUOUS AT PENETRATIONS.
- 07 92 00-01 SEALANT WITH BACKER ROD BOTH SIDES OF OPENING JOINTS. COLOR TO MATCH ADJACENT MATERIAL FINISH, UNLESS OTHERWISE NOTED.
- 08 11 19-01 STEEL DOOR AND FRAME SYSTEM. REFER TO FLOOR PLAN AND DOOR SCHEDULE FOR TYPES AND LOCATIONS.
- 08 41 13-01 ALUMINUM ENTRANCE AND STOREFRONT DOOR OR WINDOW SYSTEM. REFER TO FLOOR PLANS AND SCHEDULES FOR TYPES AND LOCATIONS.
- 08 41 13-02 ALUMINUM ENTRANCE AND STOREFRONT SUBSILL EXTENSION WITH DRIP. SET IN SEALANT BED.
- 09 21 16-01 5/8" TYPE "X" GYPSUM BOARD. REFER TO INTERIOR WALL TYPES FOR ADDITIONAL REQUIREMENTS.
- 09 51 00-01 SUSPENDED ACOUSTICAL LAY-IN CEILING SYSTEM. REFER TO REFLECTIVE CEILING PLAN AND INTERIOR FINISH SCHEDULE.
- 09 65 13-01 RESILIENT BASE. REFER TO INTERIOR FINISH SCHEDULE.
- 10 26 00-01 WALL AND DOOR PROTECTION CORNER GUARD. REFER TO INTERIOR FINISH PLAN.
- 13 34 19-01 PRE-ENGINEERED METAL BUILDING PRIMARY AND SECONDARY STRUCTURAL FRAMING. REFER TO SUBMITTALS FOR ADDITIONAL REQUIREMENTS.
- 13 34 19-02 PRE-ENGINEERED METAL BUILDING SHEET METAL STANDING SEAM (STRUCTURAL TRAPEZOIDAL PROFILE) ROOFING PANEL SYSTEM OVER THERMAL BLOCKS (R-5).
- 13 34 19-03 PRE-ENGINEERED METAL BUILDING EXTERIOR WALL PANEL SYSTEM OVER THERMAL BREAK TAPE.
- 13 34 19-04 PRE-ENGINEERED METAL BUILDING SHEET METAL GUTTERING AND DOWNSPOUT SYSTEM.
- 13 34 19-05 PRE-ENGINEERED METAL BUILDING SHEET METAL TRIM, FLASHING, COUNTER, FLASHING, DRIP CLOSURES, TRANSITIONS, CLADDING, FLUTE CLOSURES AND ACCESSORIES.
- 13 34 19-06 PRE-ENGINEERED METAL BUILDING INTERIOR WALL PANEL SYSTEM.
- 26 56 00-01 EXTERIOR LIGHT FIXTURE SYSTEM. REFER TO ELECTRICAL DRAWINGS.
- 32 13 13-01 CONCRETE SIDEWALK SLOPING 1/4:12 AWAY FROM BUILDING. REFER TO CIVIL DRAWINGS.
- 33 40 00-01 DOWNSPOUT COLLECTION SYSTEM. REFER TO CIVIL DRAWINGS.



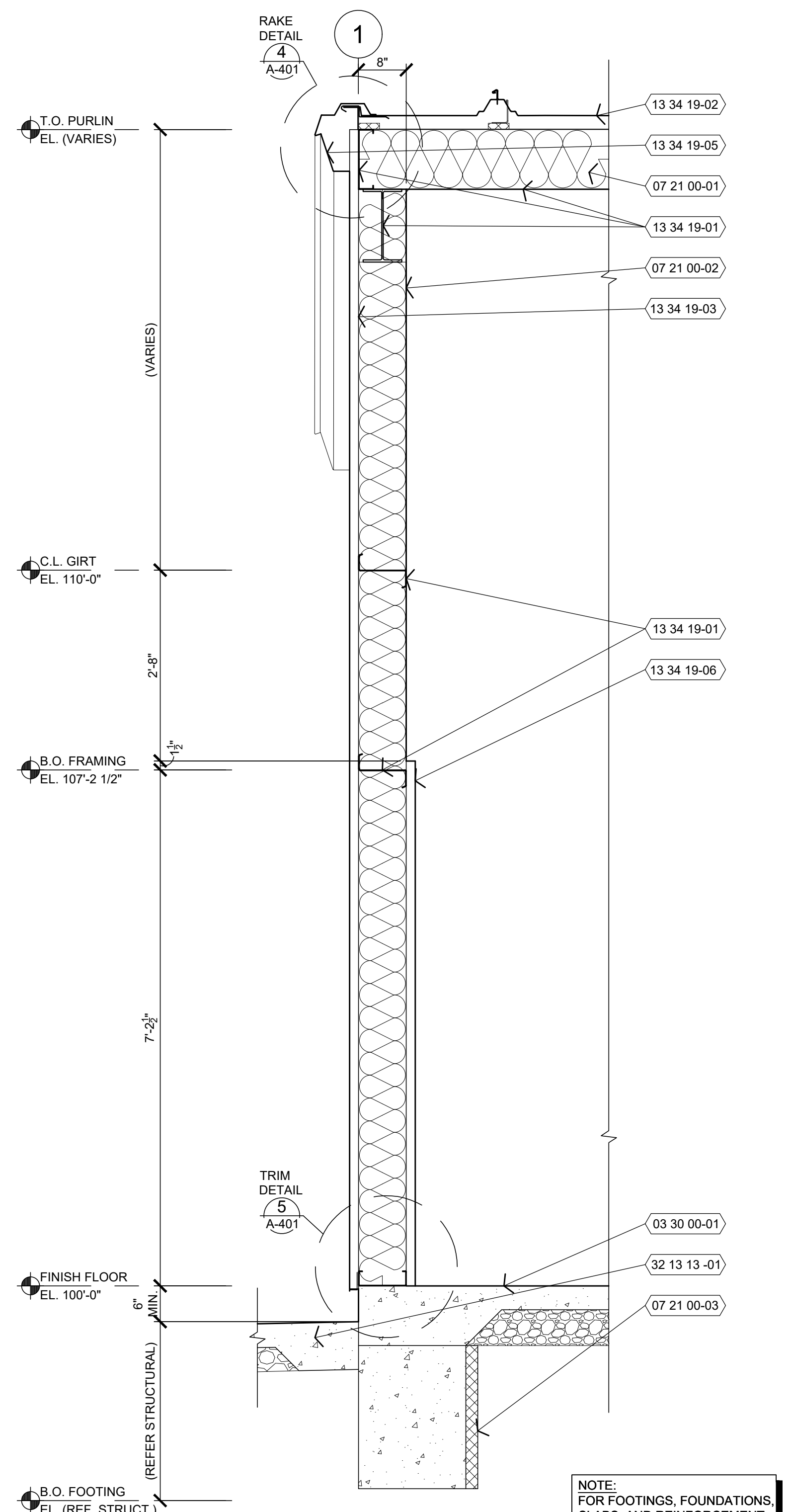
**1 WALL SECTION**  
A-401 3/4" = 1'-0"

NOTE:  
FOR ADDITIONAL  
REQUIREMENTS,  
REFER:



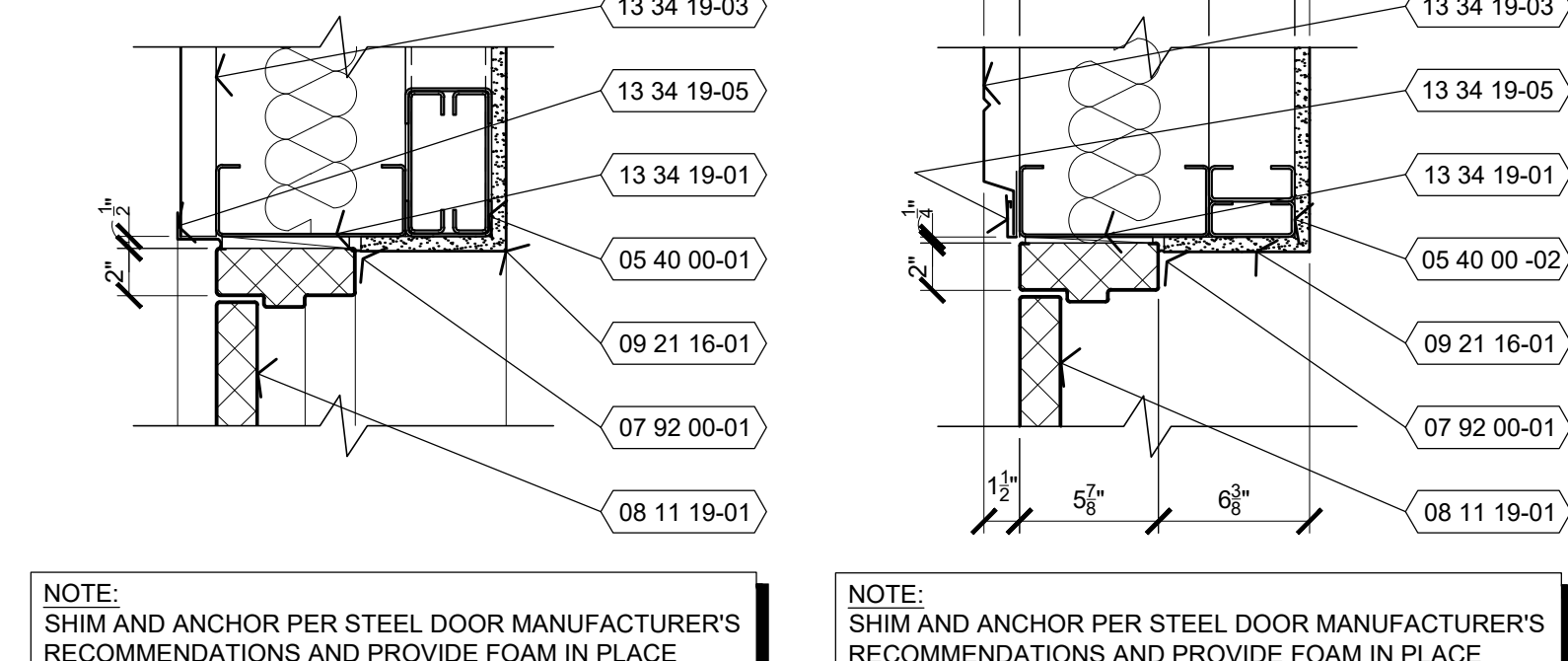
**4 DETAIL**  
A-401 1 1/2" = 1'-0"

**5 DETAIL**  
A-401 1 1/2" = 1'-0"



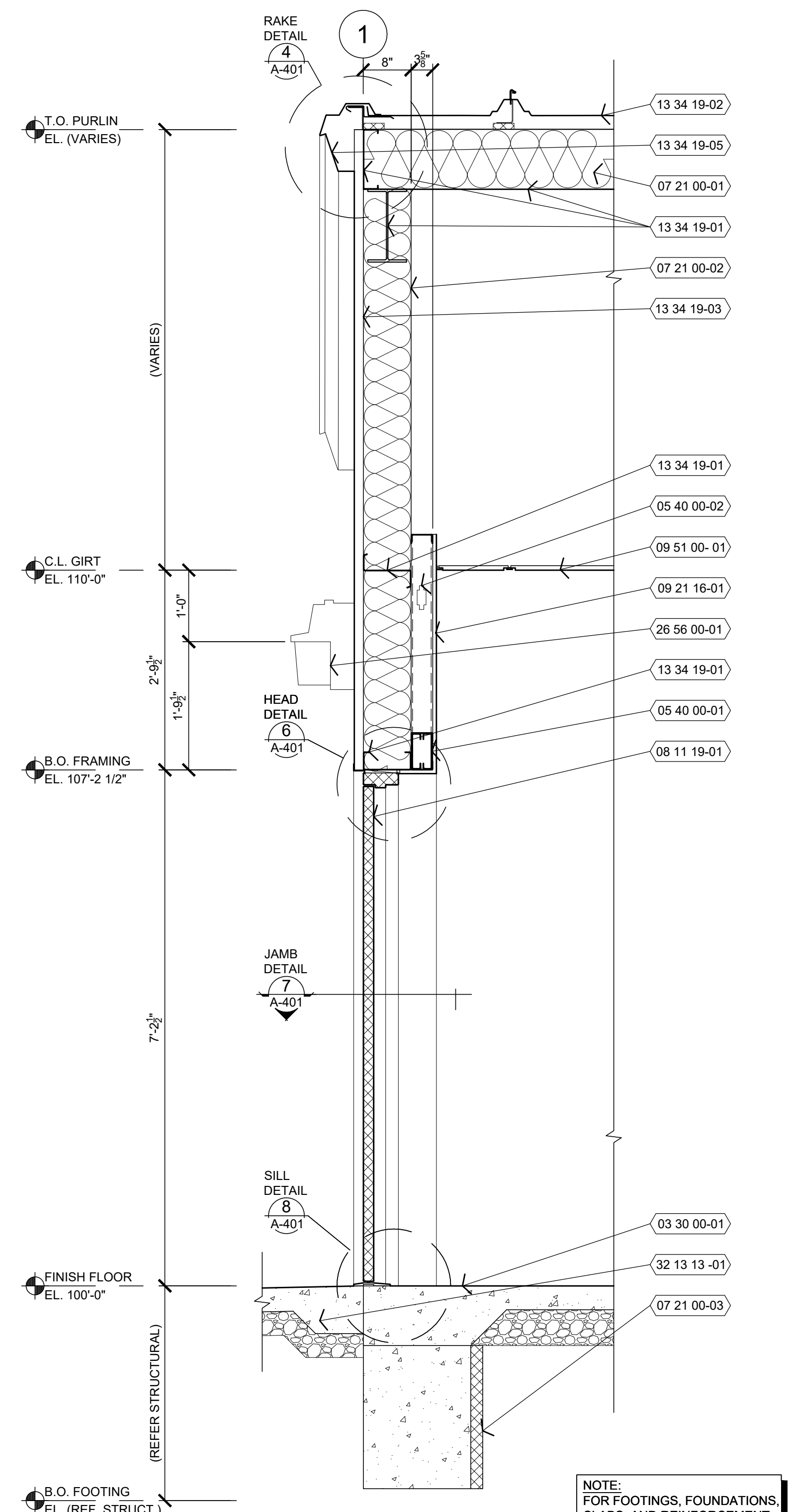
**2 WALL SECTION**  
A-401 3/4" = 1'-0"

NOTE:  
FOR ADDITIONAL  
REQUIREMENTS,  
REFER:



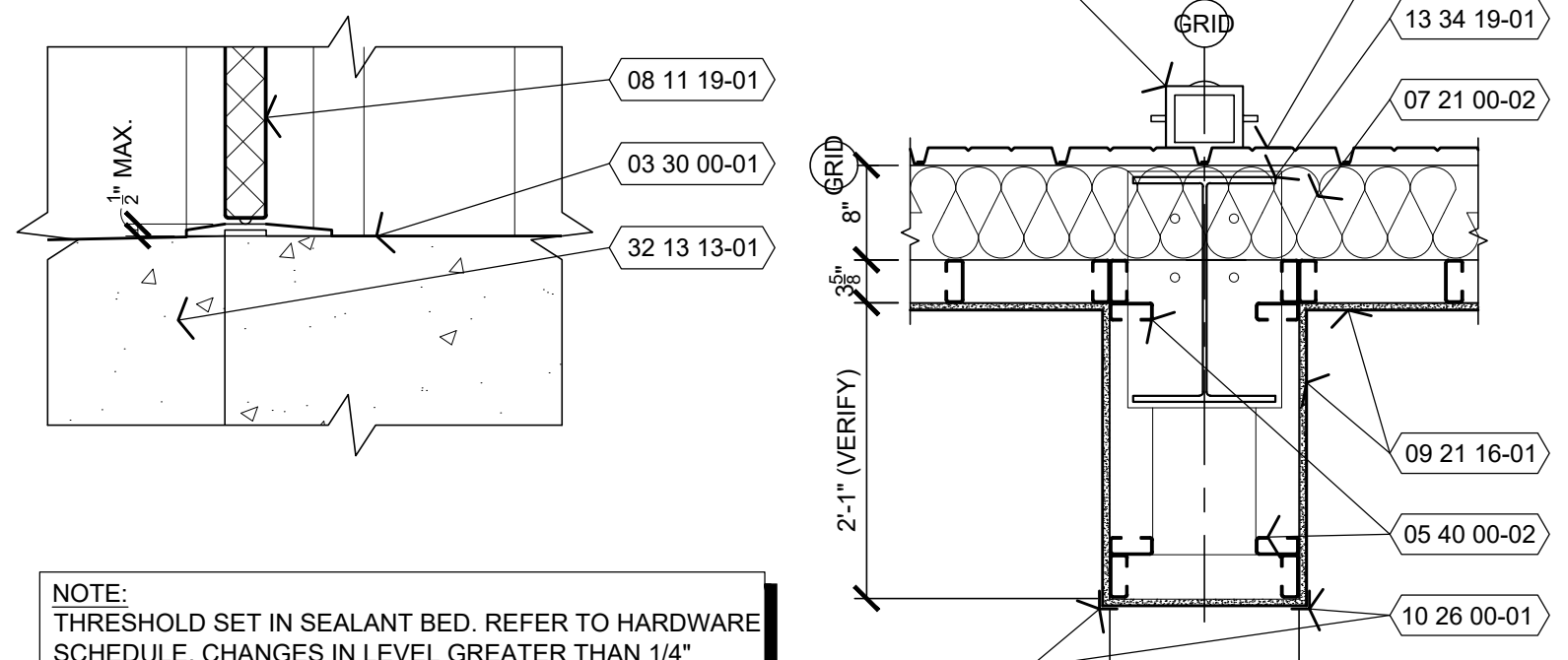
**6 HEAD**  
A-401 1 1/2" = 1'-0"

**7 JAMB**  
A-401 1 1/2" = 1'-0"



**3 WALL SECTION**  
A-401 3/4" = 1'-0"

NOTE:  
FOR ADDITIONAL  
REQUIREMENTS,  
REFER:

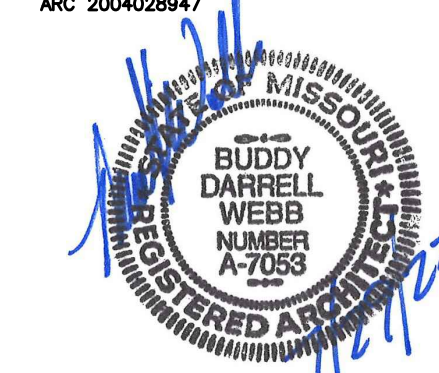


**8 SILL**  
A-401 1 1/2" = 1'-0"

**9 PLAN SECTION**  
A-401 3/4" = 1'-0"

NOTE:  
THRESHOLD SET IN SEALANT BED. REFER TO HARDWARE SCHEDULE. CHANGES IN LEVEL GREATER THAN 1/4" VERTICAL TO BE PROVIDED WITH BEVELS SLOPED 1:2 MAXIMUM.





SHEETS BEARING THIS SEAL ARE AUTHENTICATED.  
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WAPPAPELLO  
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WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-402  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**WALL SECTIONS  
(ALTERNATE NO. 1)**

SHEET NUMBER:

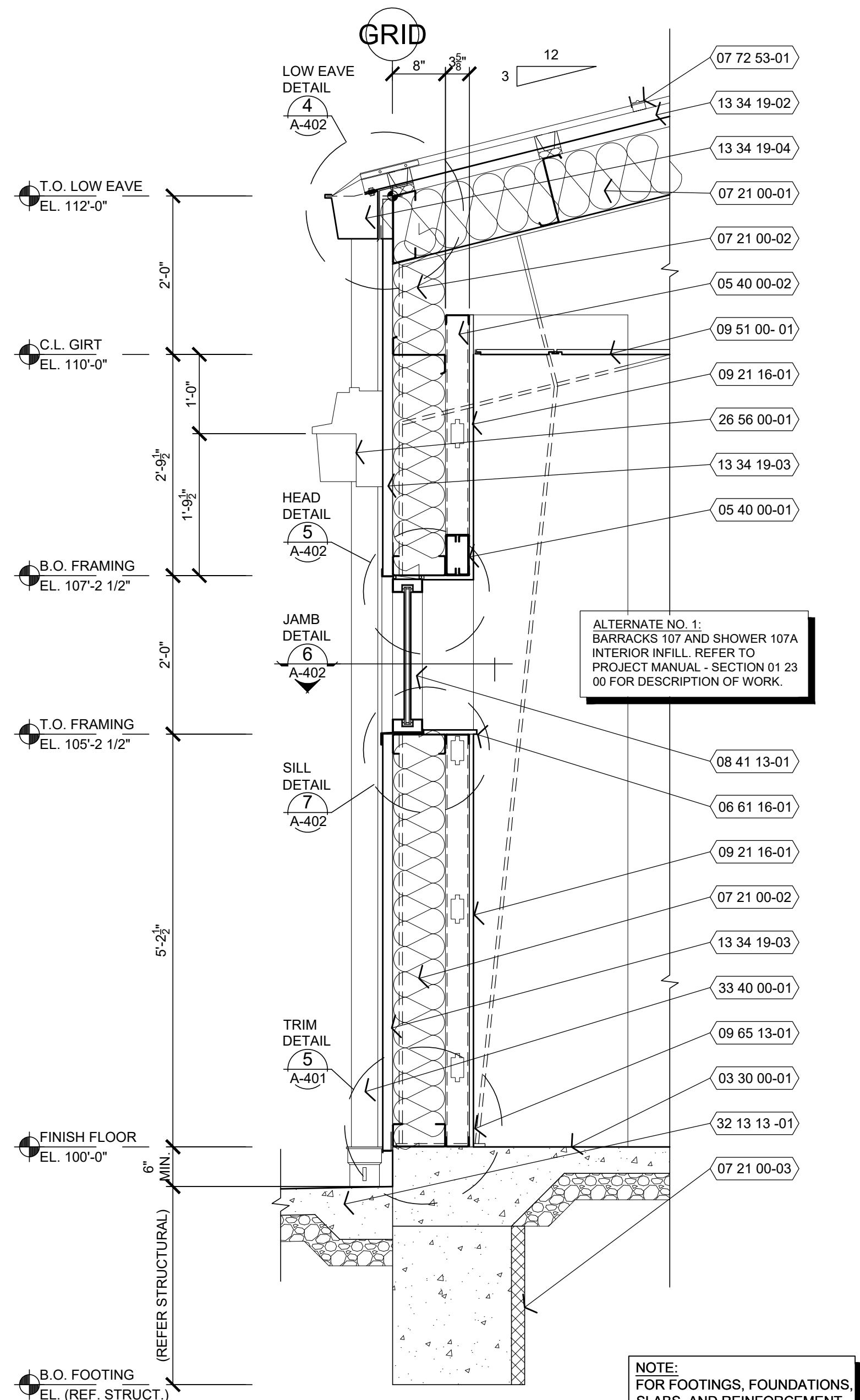
**A-402**

21 OF 36 SHEETS  
07/29/2022

**KEY NOTES**

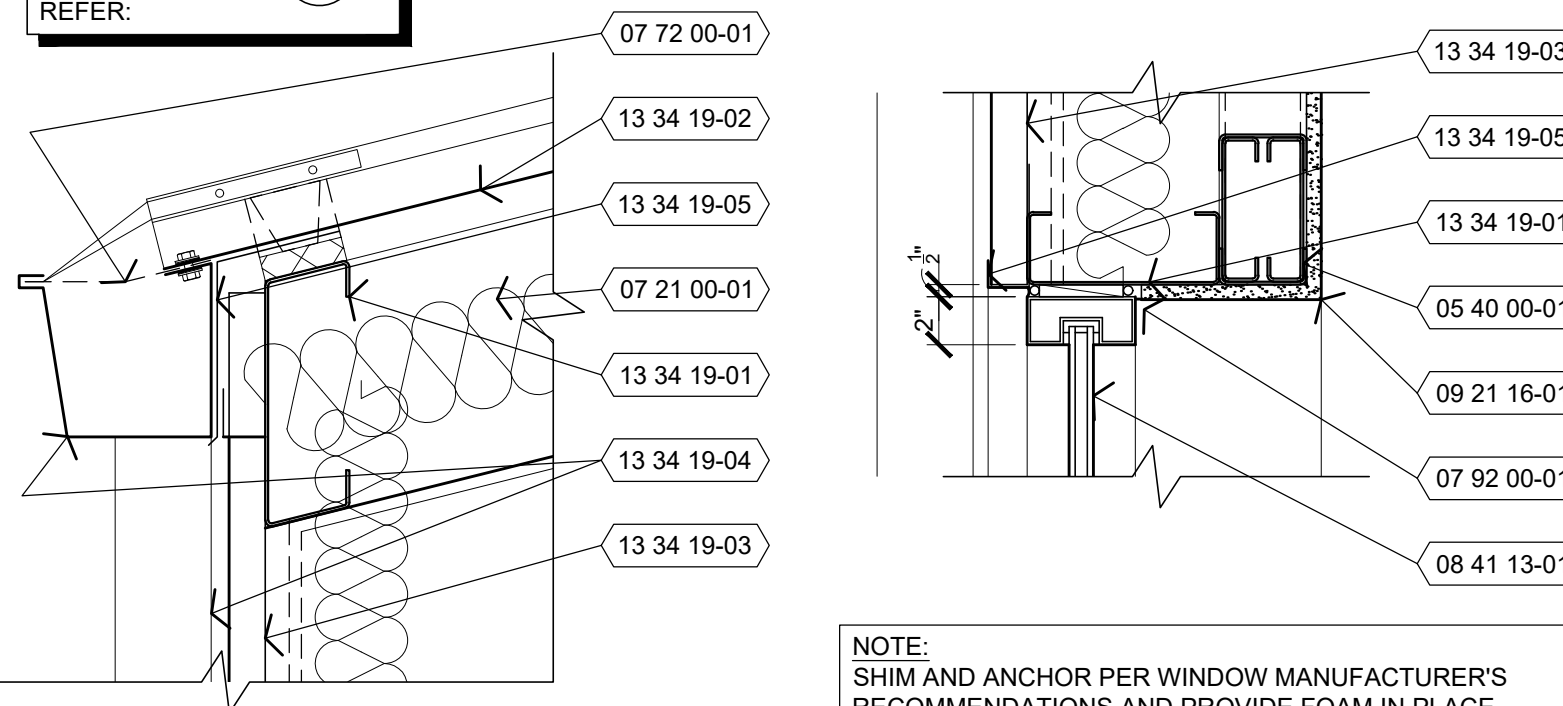
REFER TO SHEET A-301 FOR GENERAL NOTES.

- 03 30 00-01 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.
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- 05 40 00-02 362S162-33 COLD FORM METAL FRAMING AT 24" O.C. REFER TO INTERIOR WALL TYPE FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-03 600S162-33 COLD FORM METAL FRAMING AT 24" O.C. REFER TO INTERIOR WALL TYPE FOR ADDITIONAL REQUIREMENTS.
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- 32 13 13-01 CONCRETE SIDEWALK SLOPING 1/4:12 AWAY FROM BUILDING. REFER TO CIVIL DRAWINGS.
- 33 40 00-01 DOWNSPOUT COLLECTION SYSTEM. REFER TO CIVIL DRAWINGS.



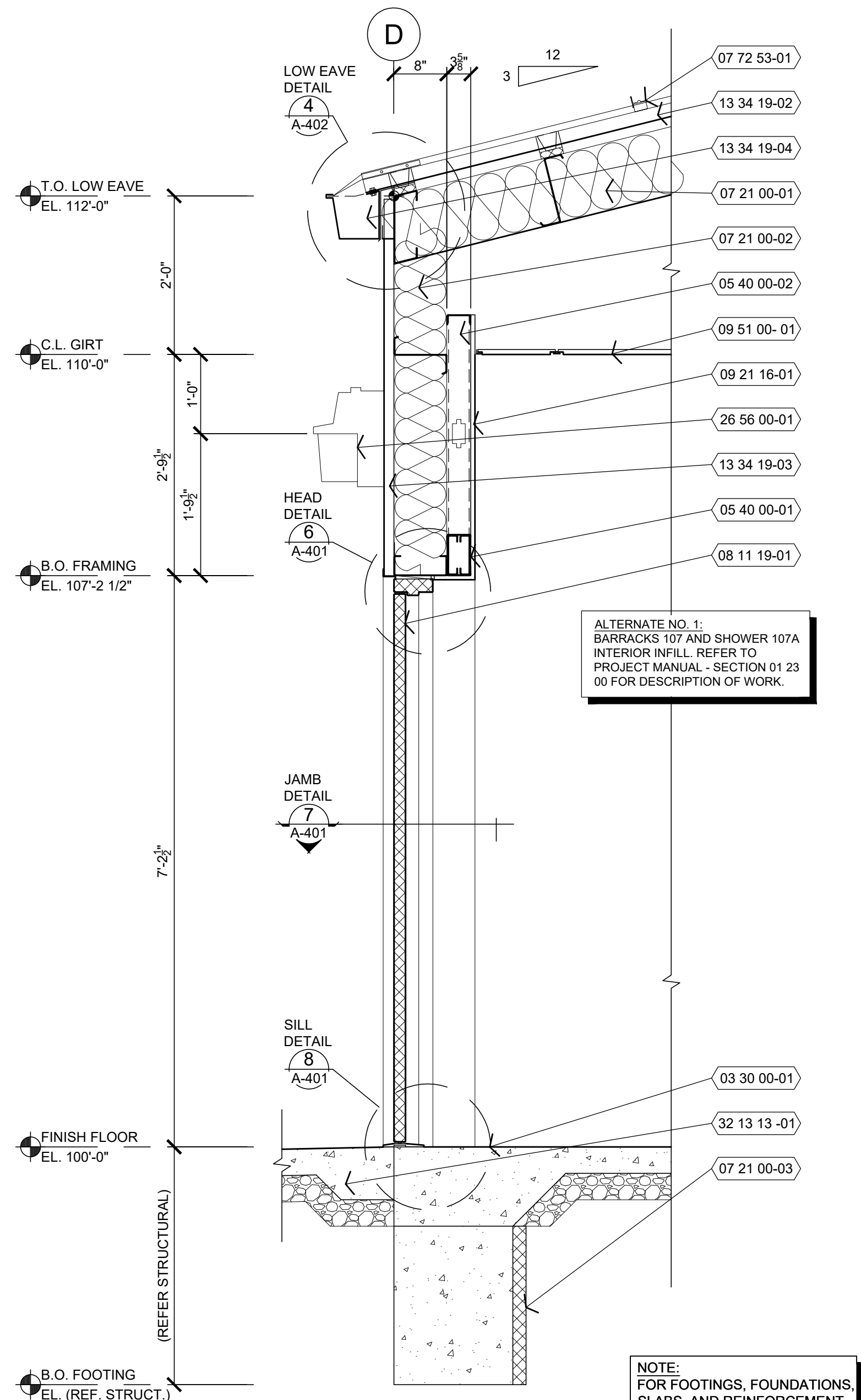
**1 WALL SECTION**  
A-402 3/4" = 1'-0"

NOTE:  
FOR ADDITIONAL  
REQUIREMENTS,  
REFER:



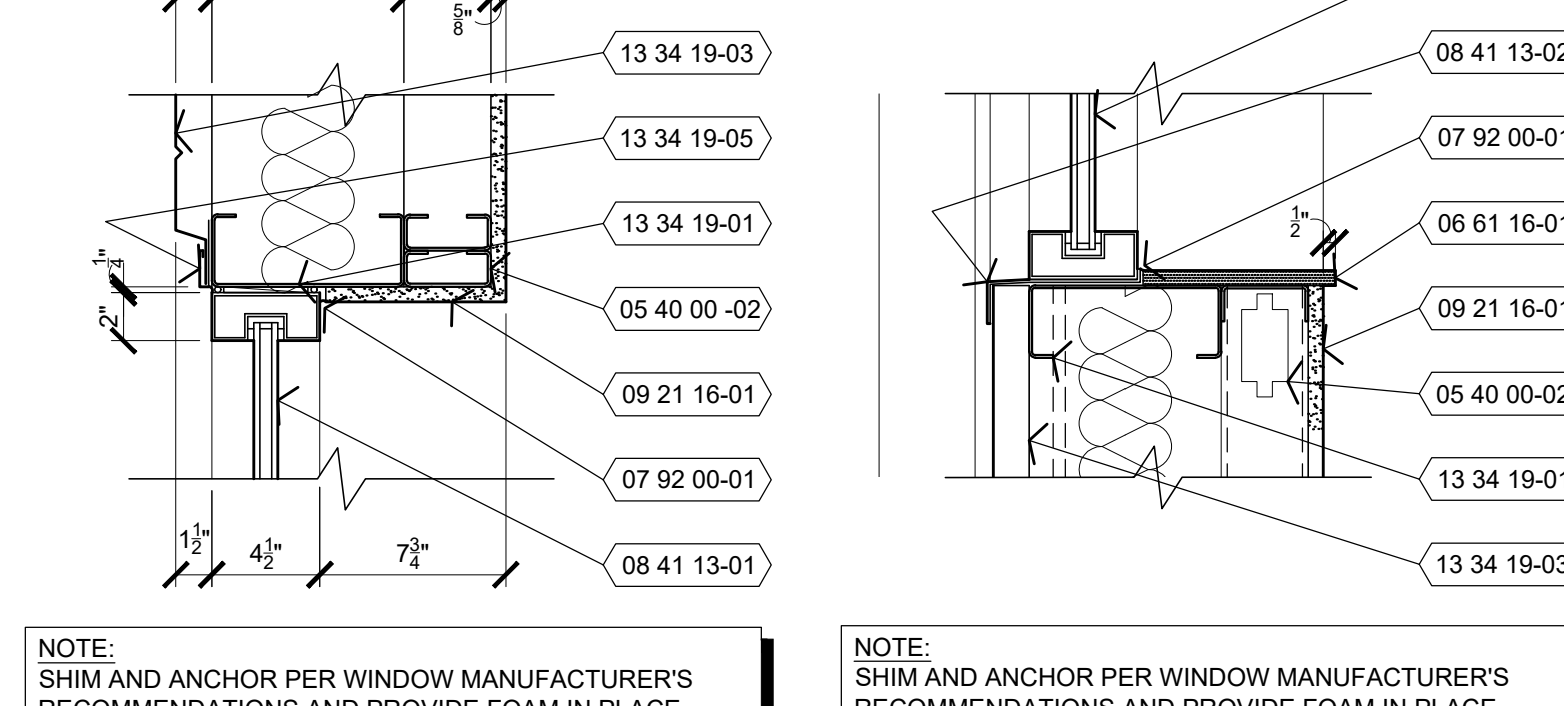
**4 DETAIL**  
A-402 1 1/2" = 1'-0"

**5 HEAD**  
A-402 1 1/2" = 1'-0"



**2 WALL SECTION**  
A-402 3/4" = 1'-0"

NOTE:  
FOR ADDITIONAL  
REQUIREMENTS,  
REFER:

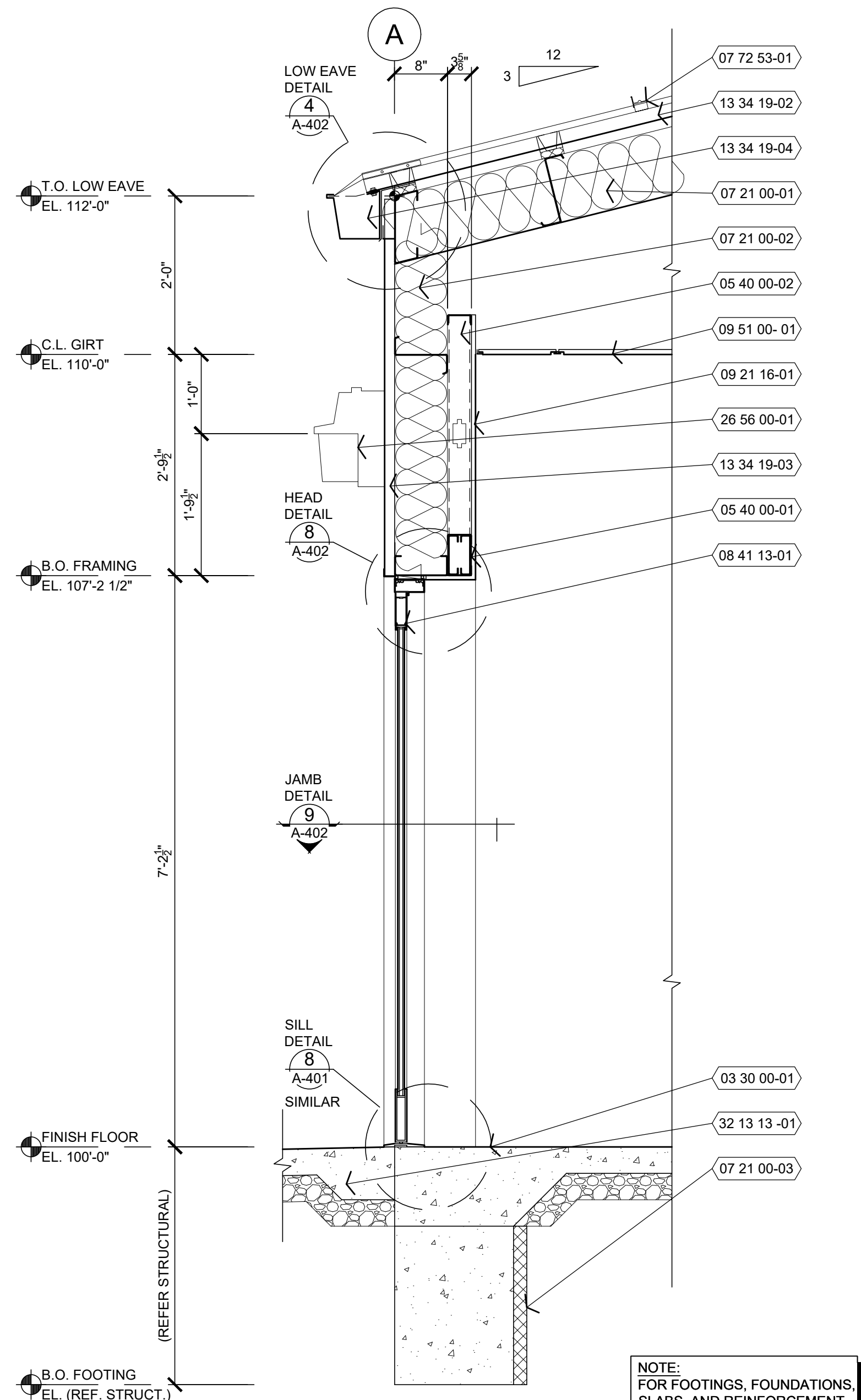


**6 JAMB**  
A-402 1 1/2" = 1'-0"

**7 SILL**  
A-402 1 1/2" = 1'-0"

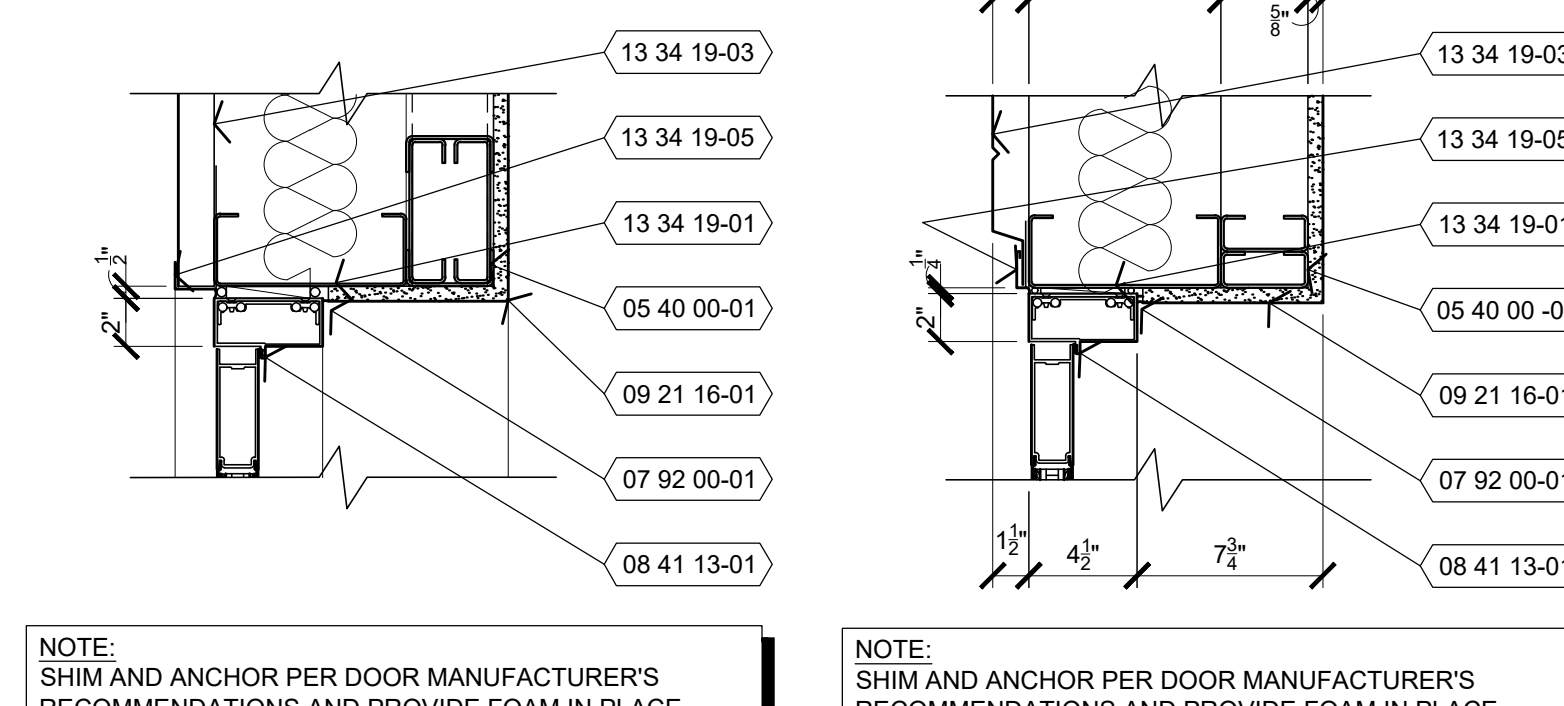
**8 HEAD**  
A-402 1 1/2" = 1'-0"

**9 JAMB**  
A-402 1 1/2" = 1'-0"



**3 WALL SECTION**  
A-402 3/4" = 1'-0"

NOTE:  
FOR ADDITIONAL  
REQUIREMENTS,  
REFER:



**4 DETAIL**  
A-402 1 1/2" = 1'-0"

**5 HEAD**  
A-402 1 1/2" = 1'-0"

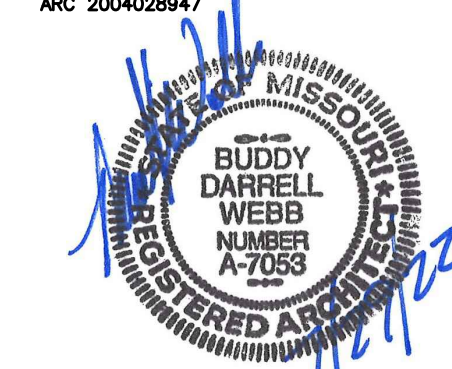
**6 JAMB**  
A-402 1 1/2" = 1'-0"

**7 SILL**  
A-402 1 1/2" = 1'-0"

**8 HEAD**  
A-402 1 1/2" = 1'-0"

**9 JAMB**  
A-402 1 1/2" = 1'-0"





SHEETS BEARING THIS SEAL ARE AUTHENTICATED.  
RESPONSIBILITY FOR ALL OTHER PLANS,  
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-403  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**WALL SECTIONS**

SHEET NUMBER:

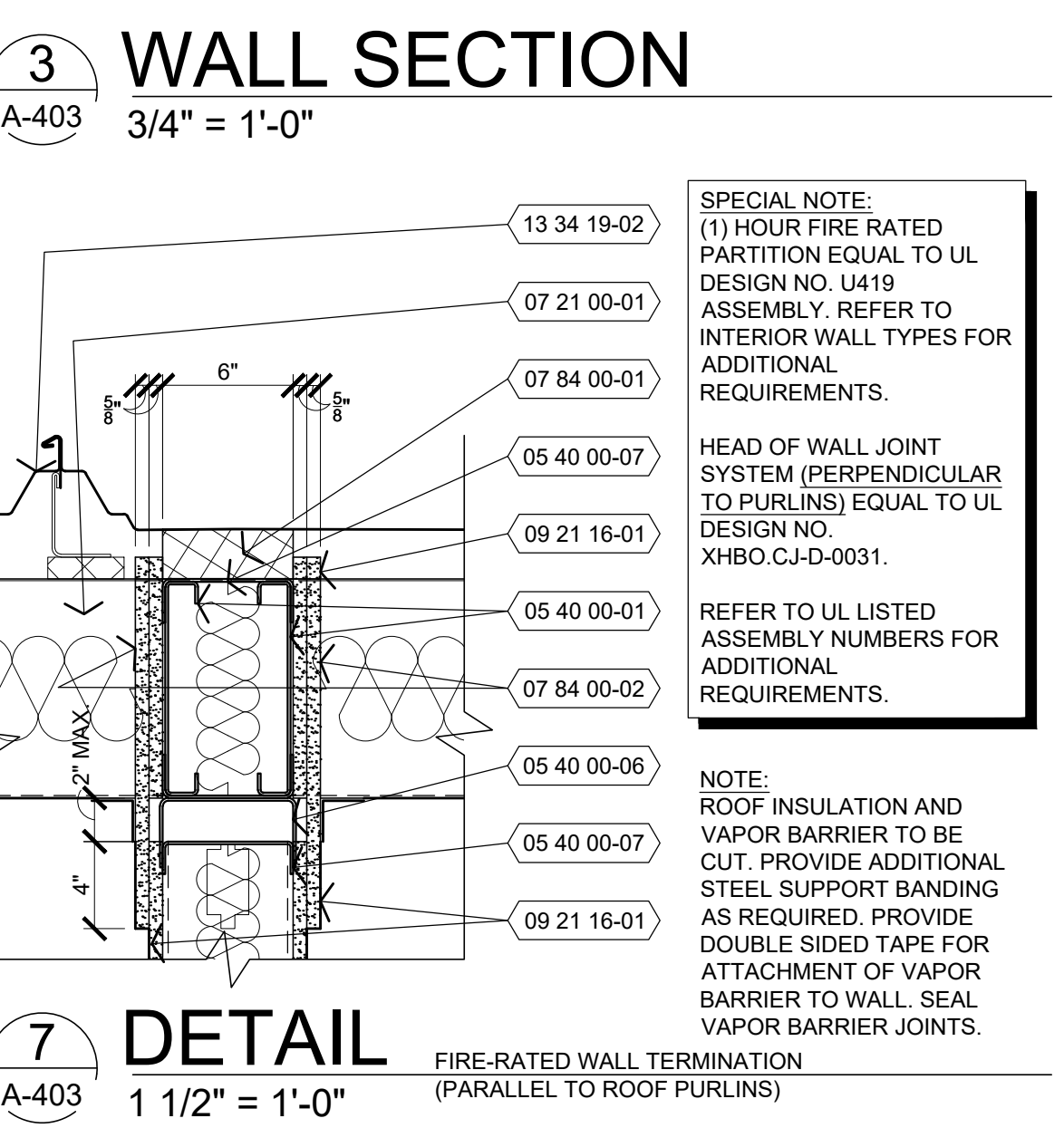
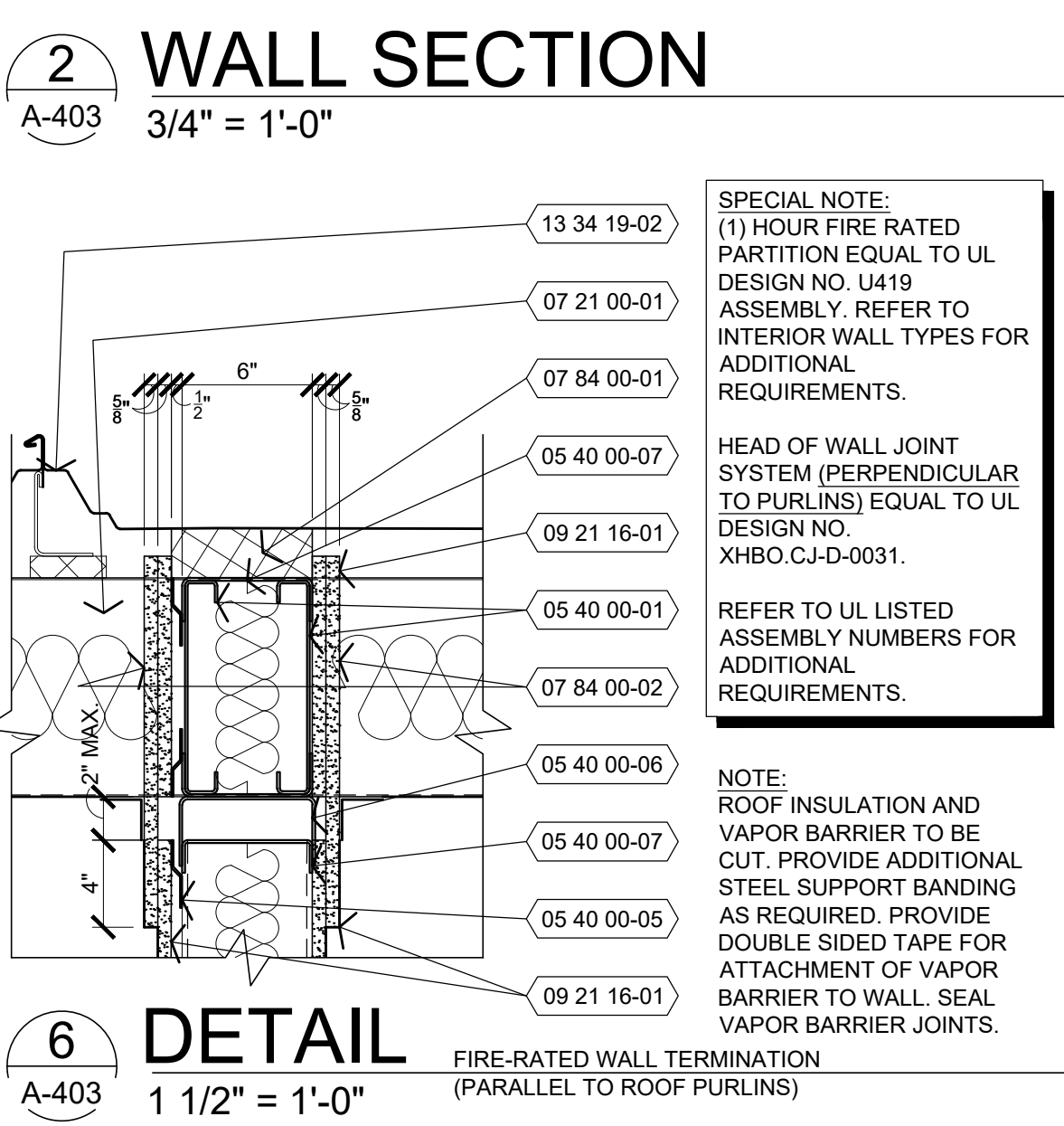
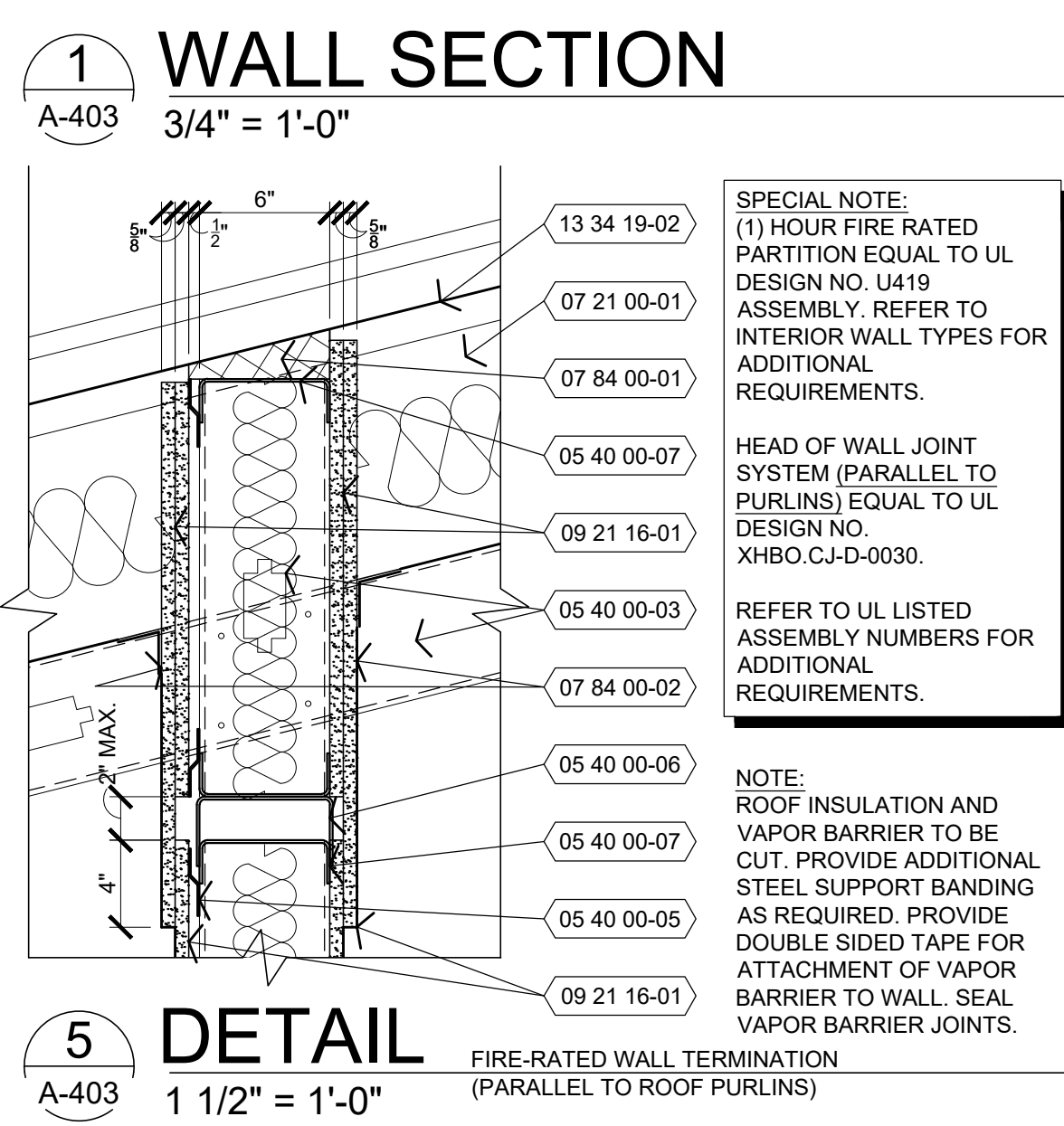
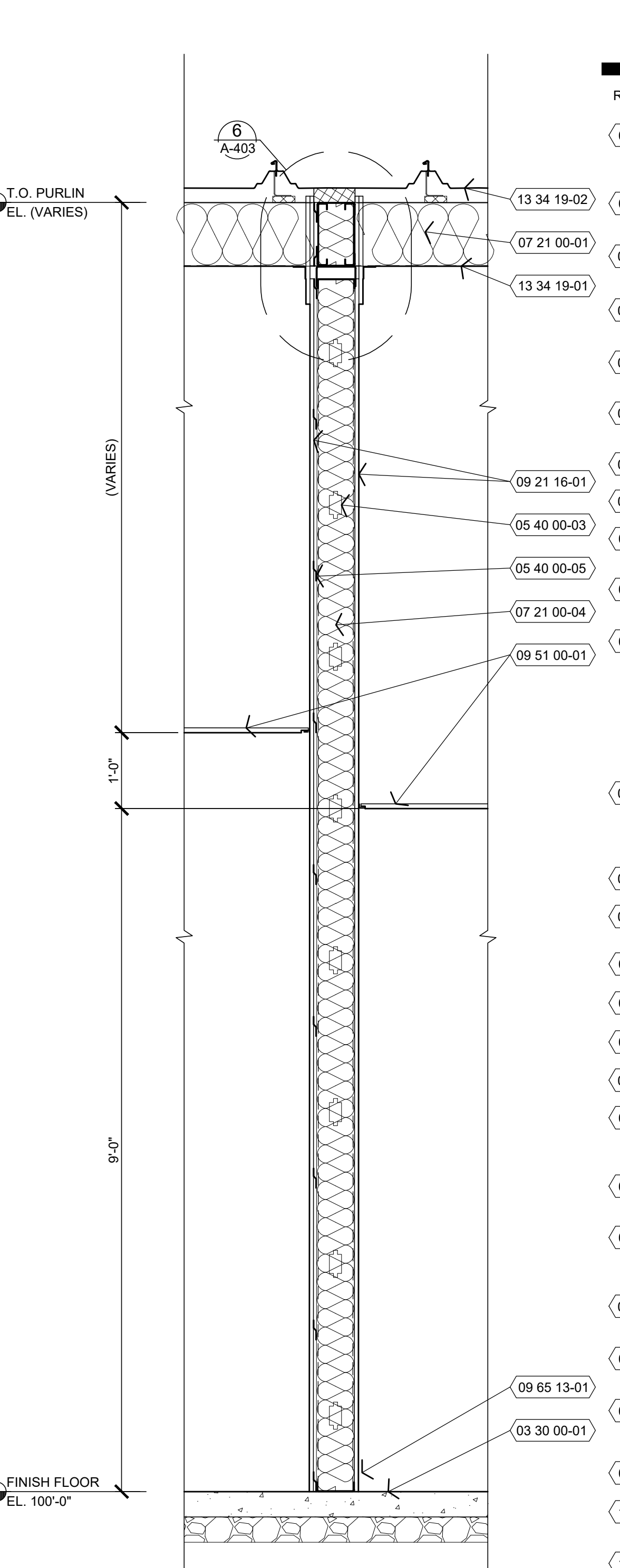
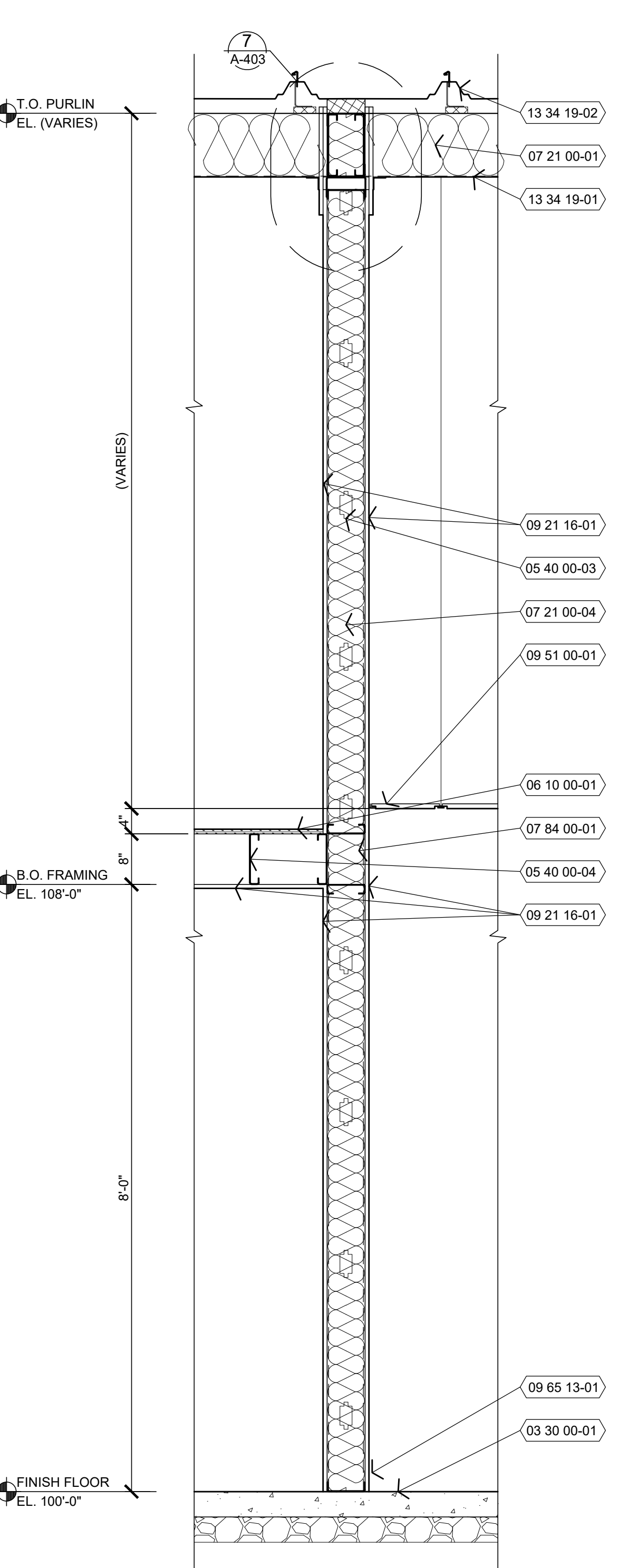
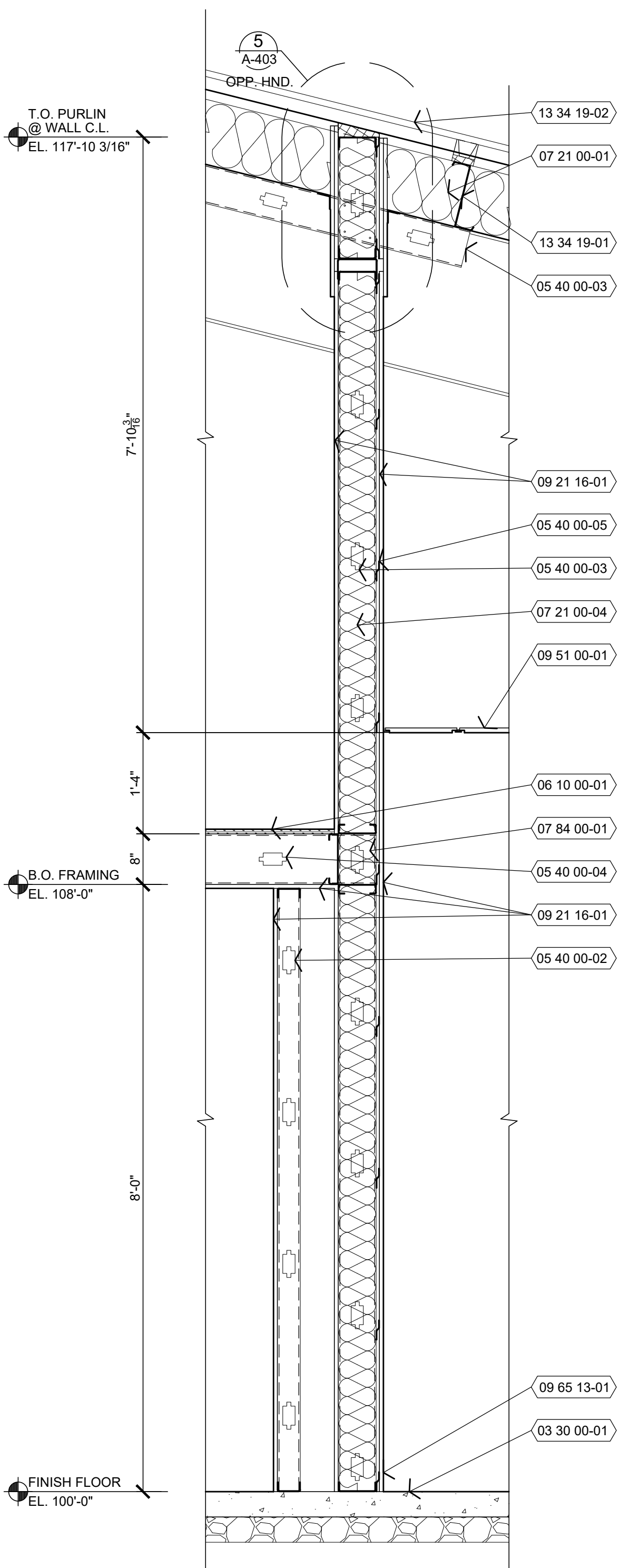
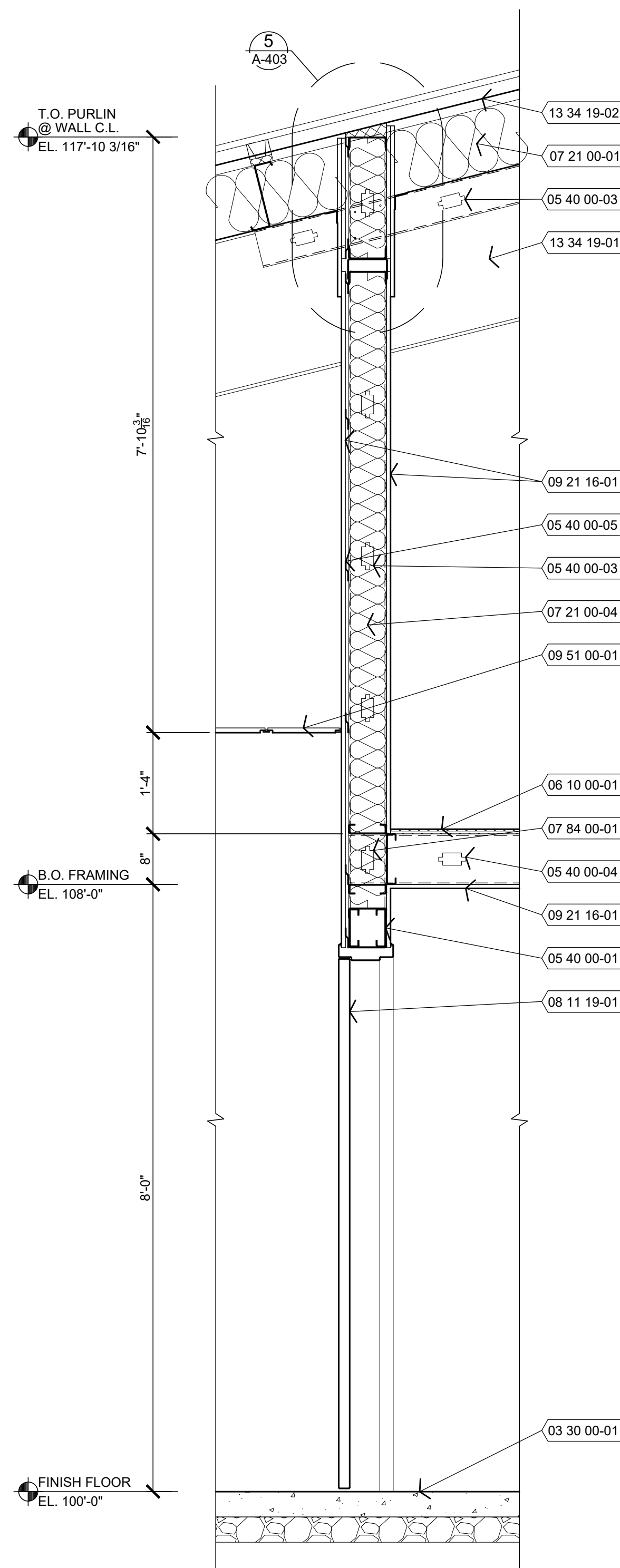
**A-403**

22 OF 36 SHEETS  
07/29/2022

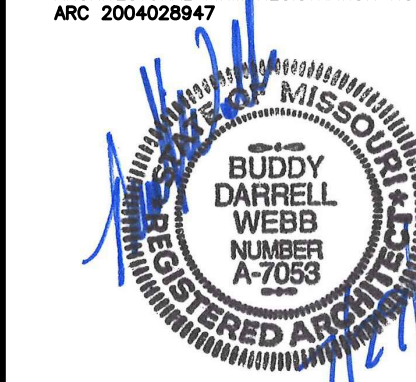
**KEY NOTES**

REFER TO SHEET A-301 FOR GENERAL NOTES.

- 03 30 00-01 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-01 COLD FORM METAL BOX HEADER. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-02 362S162-33 COLD FORM METAL FRAMING AT 24" O.C. REFER TO INTERIOR WALL TYPE FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-03 600S162-33 COLD FORM METAL FRAMING AT 24" O.C. REFER TO INTERIOR WALL TYPE FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-04 800S162 COLD FORM METAL FRAMING AT 24" O.C. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 05 40 00-05 50F125-18 COLD FORM RESILIENT CHANNELS HORIZONTAL AT 24" O.C. ON ONE SIDE WITH OUTSIDE LEG UP.
- 05 40 00-06 COLD FORM METAL DEFLECTION CHANNEL.
- 05 40 00-07 COLD FORM METAL TOP AND BOTTOM TRACK CONTINUOUS.
- 06 10 00-01 3/4" FIRE TREATED PLYWOOD DECKING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 06 61 16-01 SOLID SURFACE FABRICATION. REFER TO INTERIOR FINISHES SCHEDULE.
- 07 21 00-01 PRE-ENGINEERED METAL BUILDING ROOF BATT INSULATION (R-36) LINEAR SYSTEM. VAPOR BARRIER SUPPORTED BY HIGH STRENGTH STEEL STRAPS ATTACHED TO BOTTOM OF PRE-ENGINEERED METAL BUILDING ROOF PURLINS WITH (1) LAYER 8" (R-25) UN-FACED BATT INSULATION PARALLEL TO PURLIN CAVITY AND (1) LAYER 3 1/2" (R-11) UN-FACED BATT INSULATION PERPENDICULAR OVER TOP OF ROOF PURLINS. SEAL ALL JOINTS WITH TAPE.
- 07 21 00-02 PRE-ENGINEERED METAL BUILDING CAVITY WALL. UNFACED BATT INSULATION (R-25) SYSTEM (UNCOMPRESSED) WITH VAPOR BARRIER SUPPORTED WITH HIGH STRENGTH STEEL STRAPS ATTACHED TO GIRTS. SEAL ALL JOINTS WITH TAPE.
- 07 21 00-03 2" RIGID INSULATION BOARD (R-10).
- 07 21 00-04 6" UNFACED SOUND ATTENUATION BATT INSULATION. REFER TO FLOOR PLAN AND WALL TYPES.
- 07 72 00-01 REMOVABLE GUTTER DEBRIS SCREENS.
- 07 72 53-01 SNOW GUARDS. REFER TO ROOF PLAN.
- 07 84 00-01 FIRE STOPPING COMPRESSIBLE MINERAL WOOL.
- 07 84 00-02 FIRE STOPPING SEALANT CONTINUOUS AT PENETRATIONS.
- 07 92 00-01 SEALANT WITH BACKER ROD BOTH SIDES OF OPENING JOINTS. COLOR TO MATCH ADJACENT MATERIAL FINISH, UNLESS OTHERWISE NOTED.
- 08 11 19-01 STEEL DOOR AND FRAME SYSTEM. REFER TO FLOOR PLAN AND DOOR SCHEDULE FOR TYPES AND LOCATIONS.
- 08 41 13-01 ALUMINUM ENTRANCE AND STOREFRONT DOOR OR WINDOW SYSTEM. REFER TO FLOOR PLANS AND SCHEDULES FOR TYPES AND LOCATIONS.
- 08 41 13-02 ALUMINUM ENTRANCE AND STOREFRONT SUBSILL EXTENSION WITH DRIP. SET IN SEALANT BED.
- 09 21 16-01 5/8" TYPE "X" GYPSUM BOARD. REFER TO INTERIOR WALL TYPES FOR ADDITIONAL REQUIREMENTS.
- 09 51 00-01 SUSPENDED ACOUSTICAL LAY-IN CEILING SYSTEM. REFER TO REFLECTIVE CEILING PLAN AND INTERIOR FINISH SCHEDULE.
- 09 65 13-01 RESILIENT BASE. REFER TO INTERIOR FINISH SCHEDULE.
- 10 26 00-01 WALL AND DOOR PROTECTION CORNER GUARD. REFER TO INTERIOR FINISH PLAN.
- 13 34 19-01 PRE-ENGINEERED METAL BUILDING PRIMARY AND SECONDARY STRUCTURAL FRAMING. REFER TO SUBMITTALS FOR ADDITIONAL REQUIREMENTS.
- 13 34 19-02 PRE-ENGINEERED METAL BUILDING SHEET METAL STANDING SEAM (STRUCTURAL TRAPEZOIDAL PROFILE) ROOFING PANEL SYSTEM OVER THERMAL BLOCKS (R-5).
- 13 34 19-03 PRE-ENGINEERED METAL BUILDING EXTERIOR WALL PANEL SYSTEM OVER THERMAL BREAK TAPE.
- 13 34 19-04 PRE-ENGINEERED METAL BUILDING SHEET METAL GUTTERING AND DOWNSPOUT SYSTEM.
- 13 34 19-05 PRE-ENGINEERED METAL BUILDING SHEET METAL TRIM, FLASHING, COUNTER, FLASHING, DRIP CLOSURES, TRANSITIONS, CLADDING, FLUTE CLOSURES AND ACCESSORIES.
- 13 34 19-06 PRE-ENGINEERED METAL BUILDING INTERIOR WALL PANEL SYSTEM.
- 26 56 00-01 EXTERIOR LIGHT FIXTURE SYSTEM. REFER TO ELECTRICAL DRAWINGS.
- 32 13 13-01 CONCRETE SIDEWALK SLOPING 1/4:12 AWAY FROM BUILDING. REFER TO CIVIL DRAWINGS.
- 33 40 00-01 DOWNSPOUT COLLECTION SYSTEM. REFER TO CIVIL DRAWINGS.







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ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**ENLARGED PLAN,  
INTERIOR ELEVATIONS  
(ALTERNATE NO. 1)**

SHEET NUMBER:

**A-404**

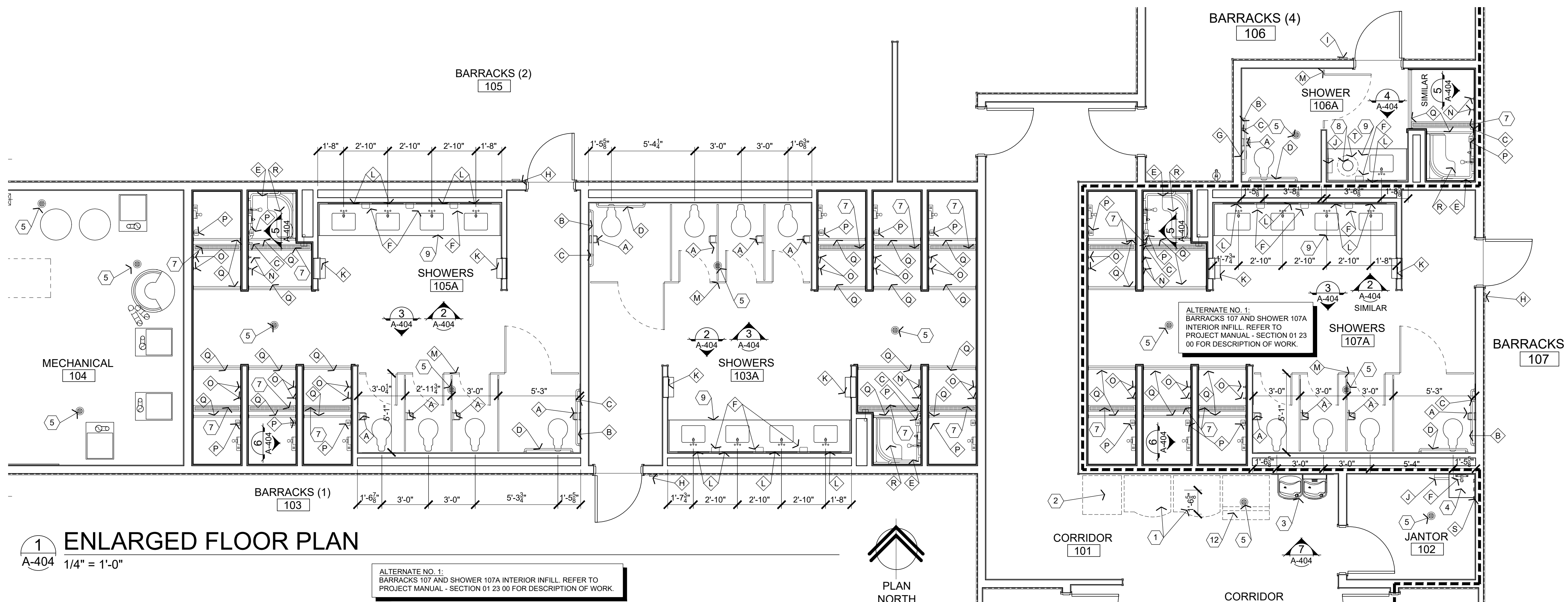
23 OF 36 SHEETS  
07/29/2022

**GENERAL NOTES**

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) ALL DIMENSIONS ARE TO ROUGH FACE OF FRAMING OR CENTERLINE OF FIXTURE UNLESS OTHERWISE INDICATED. TOILET PARTITION DIMENSIONS ARE TO FACE OF GYPSUM BOARD AND CENTERLINE OF PANEL. PANEL 1" (NOMINAL) THICKNESS DIMENSIONS NOT SHOWN FOR CLARITY.
- (C) REFER TO PLUMBING PLANS FOR PLUMBING FIXTURE TYPES.
- (D) REFER TO INTERIOR FINISH PLANS FOR MATERIALS AND FINISHES.
- (E) REFER TO FLOOR PLAN FOR WALL TYPES AND ASSEMBLIES.

**KEY NOTES**

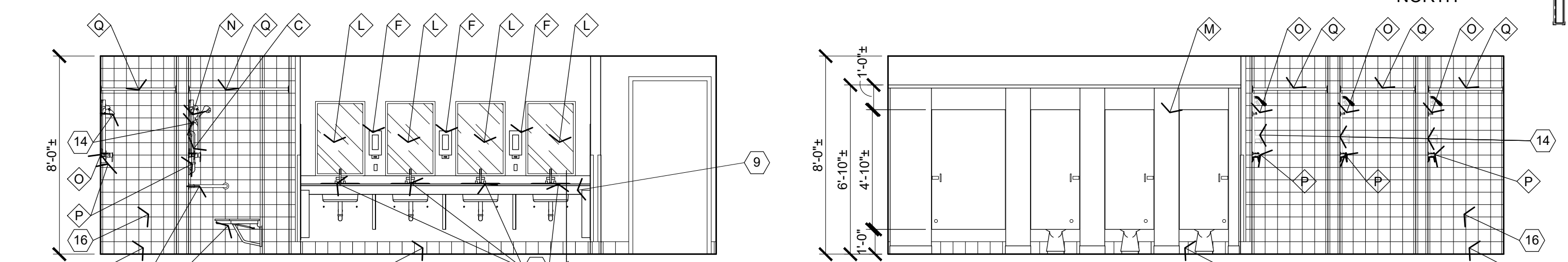
- 1 VENDING MACHINE (BY OTHERS).
- 2 DEDICATED RECYCLING CONTAINER (BY OTHERS).
- 3 HIGH / LOW DRINKING FOUNTAIN WITH CAIN GUARD, REFER TO PLUMBING DRAWINGS.
- 4 JANITOR'S SINK, REFER TO PLUMBING DRAWINGS.
- 5 FLOOR DRAIN, REFER TO DETAIL 2/A-501 AND PLUMBING DRAWINGS.
- 6 WALL CONSTRUCTION, REFER TO FLOOR PLAN FOR TYPES.
- 7 SHOWER TRENCH DRAIN, REFER TO STRUCTURAL AND PLUMBING DRAWINGS. SLOPE CONCRETE FLOOR 1/4"=12" MAXIMUM TO DRAIN.
- 8 8" DIAMETER COUNTER OPENING FOR BELOW COUNTER TRASH DISPOSAL.
- 9 SOLID SURFACE COUNTER TOP, SINK, FRONT, BACKSPLASH & SIDESPLASH.
- 10 FAUCET, REFER TO PLUMBING DRAWINGS.
- 11 (NOT USED).
- 12 FUTURE ICE MACHINE (BY OTHERS).
- 13 STAINLESS STEEL (24 GA. WITH US32D FINISH) WALL COVERING WITH EXPOSED EDGES BEVELED.
- 14 SHOWER UNIT, REFER TO PLUMBING DRAWINGS
- 15 FIRE TREATED 2X WOOD BLOCKING.
- 16 GLAZED WALL TILE, REFER TO FINISH SCHEDULE ON SHEET I-101.
- 17 GLAZED TILE BASE - REFER TO FINISH SCHEDULE ON SHEET I-101.



**1 ENLARGED FLOOR PLAN**

A-404 1/4" = 1'-0"

ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A INTERIOR INFILL. REFER TO PROJECT MANUAL - SECTION 01 23 00 FOR DESCRIPTION OF WORK.

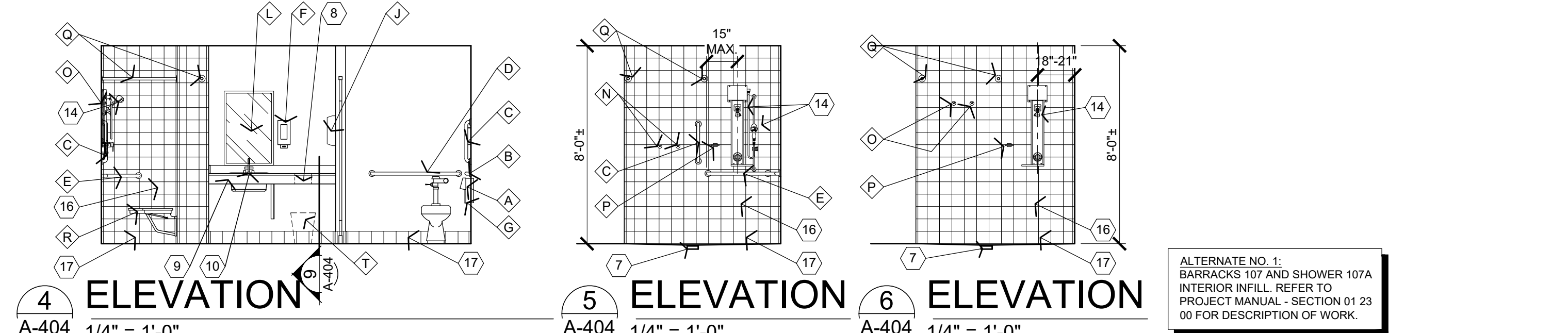


**2 ELEVATION**

A-404 1/4" = 1'-0"

**3 ELEVATION**

A-404 1/4" = 1'-0"



**4 ELEVATION**

A-404 1/4" = 1'-0"

**5 ELEVATION**

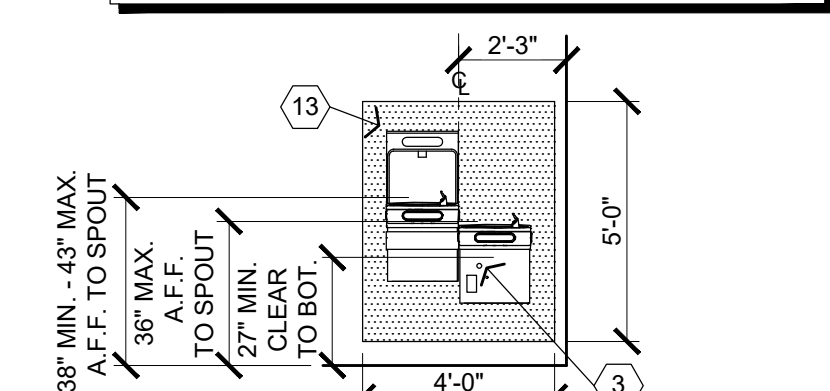
A-404 1/4" = 1'-0"

**6 ELEVATION**

A-404 1/4" = 1'-0"

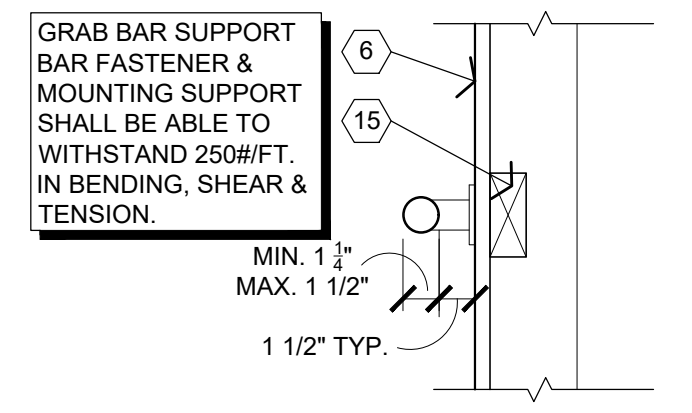
ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A INTERIOR INFILL. REFER TO PROJECT MANUAL - SECTION 01 23 00 FOR DESCRIPTION OF WORK.

SPECIAL NOTE:  
DRINKING FOUNTAIN UNIT TO BE PROVIDED WITH CANE GUARD. REFER TO PLUMBING DRAWINGS. REFER TO ELEVATIONS FOR REQUIRED LEVEL CONFIGURATIONS.



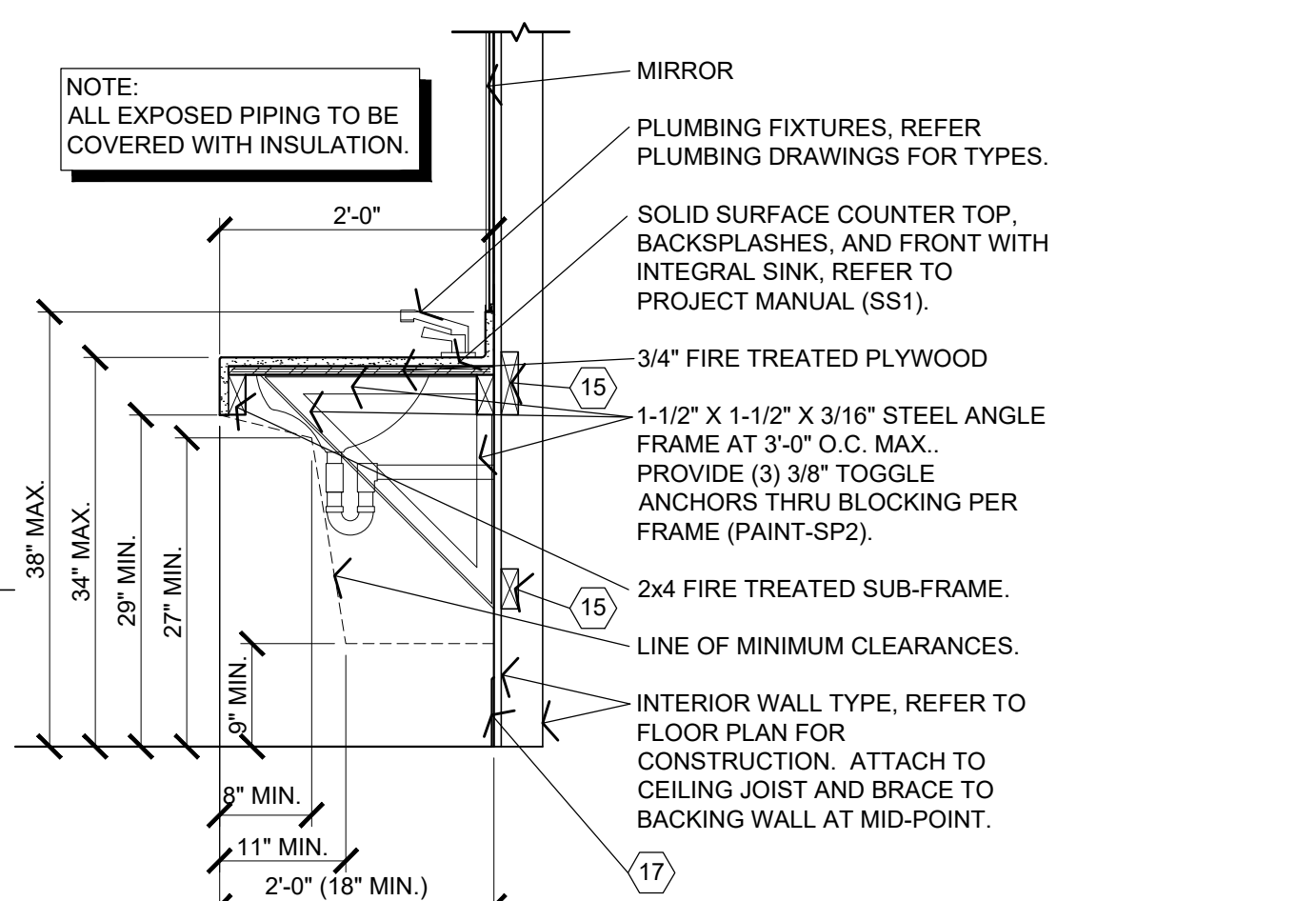
**7 ELEVATION**

A-404 1/4" = 1'-0"



**8 DETAIL**

A-404 1 1/2" = 1'-0"



**9 SECTION**

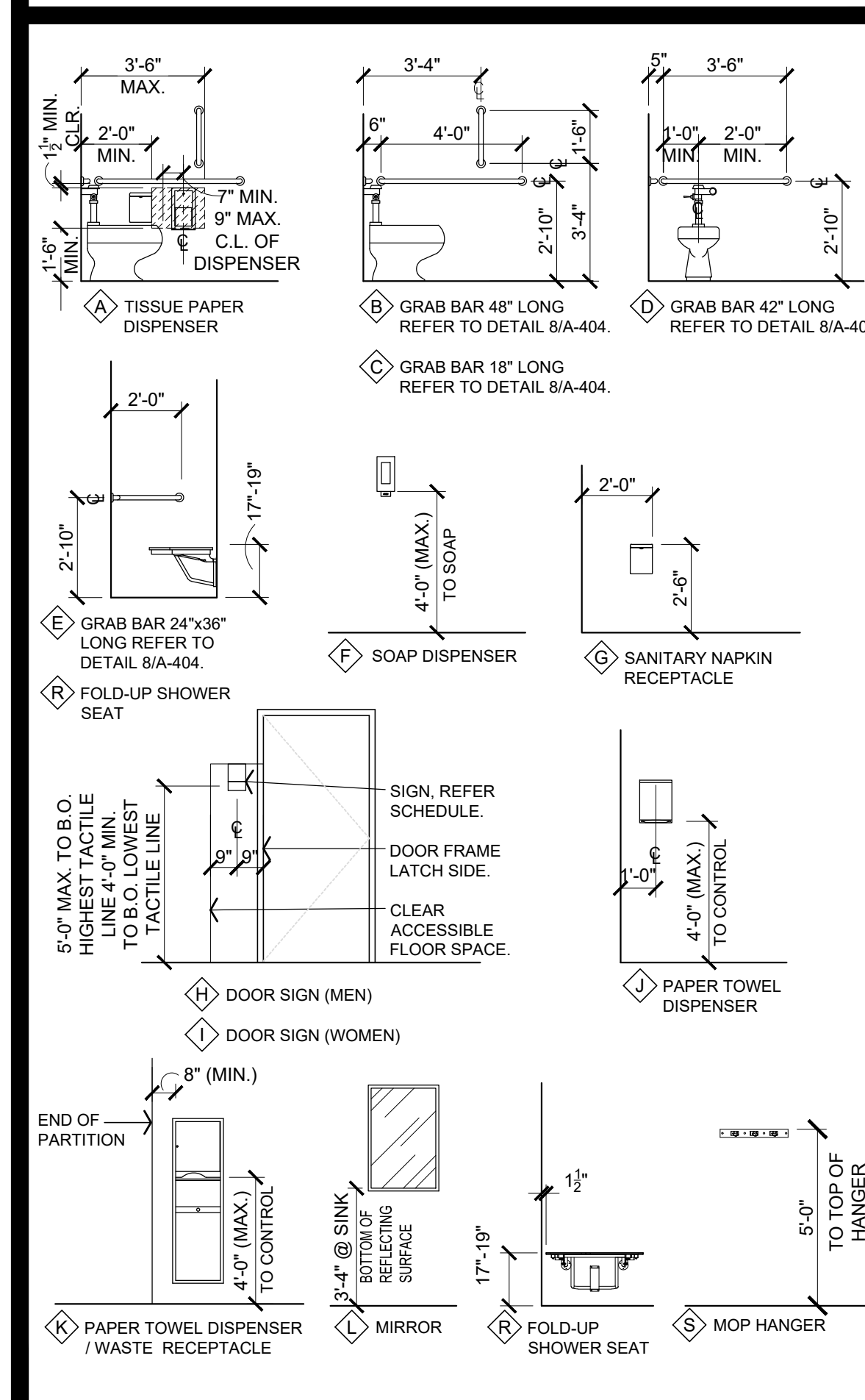
A-404 3/4" = 1'-0"

**ACCESSORY SCHEDULE**

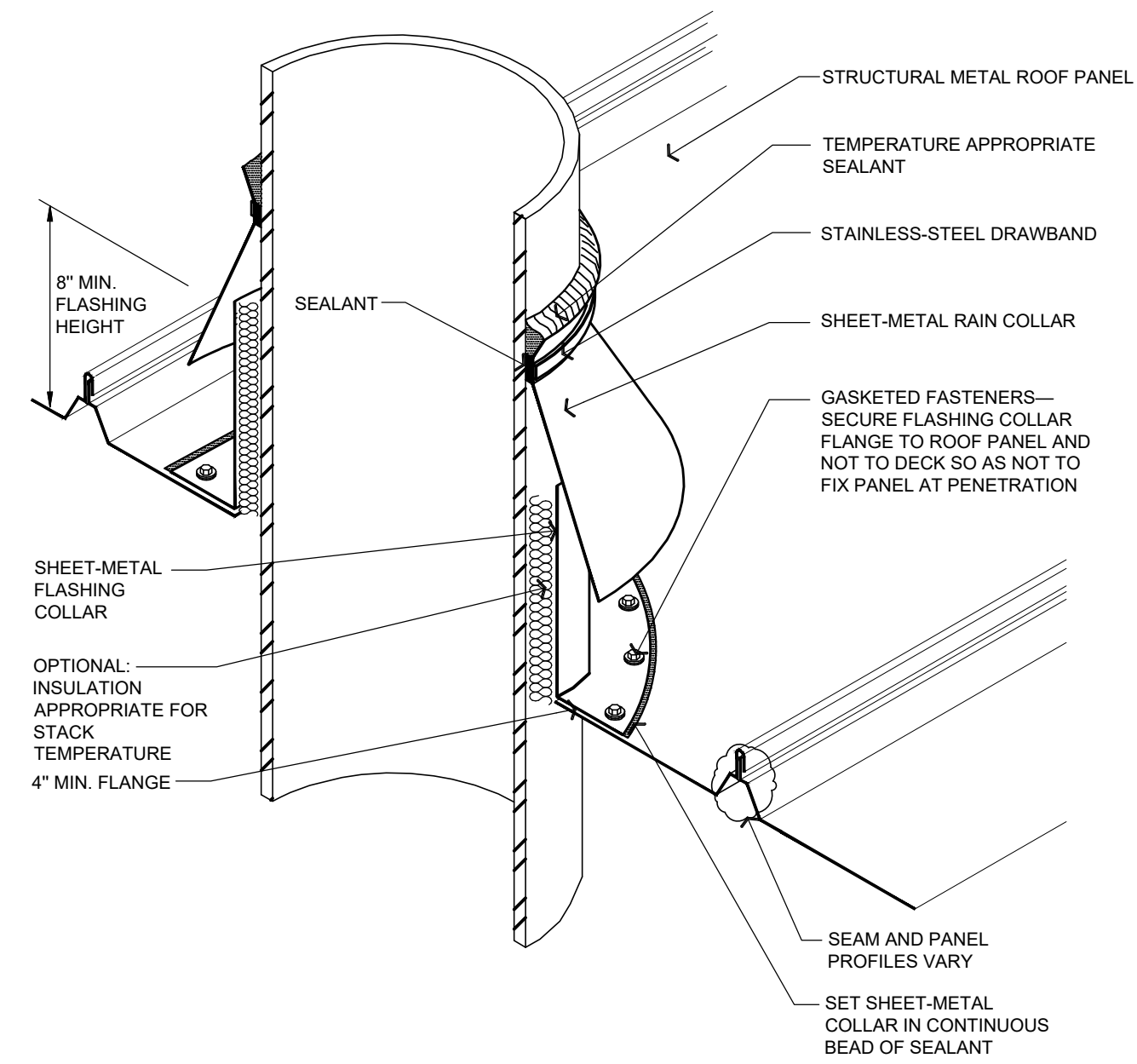
MK	DESCRIPTION	MANUFACTURER	SERIES / MODEL	MOUNTING LOCATION	ACCESSORY NOTES
A	TISSUE PAPER DISPENSER	(REFER TO PROJECT MANUAL)	DOUBLE ROLL, STACKED	REFER PLANS, ELEVATIONS, LEGEND	--
B	GRAB BAR	(REFER TO PROJECT MANUAL)	48" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	--
C	GRAB BAR	(REFER TO PROJECT MANUAL)	18" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	--
D	GRAB BAR	(REFER TO PROJECT MANUAL)	42" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	--
E	GRAB BAR	(REFER TO PROJECT MANUAL)	24"x36" L-SHAPED	REFER PLANS, ELEVATIONS, LEGEND	--
F	SOAP DISPENSER	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	--
G	SANITARY NAPKIN RECEPTACLE	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	SHOWER 106A ONLY
H	ACCESSIBLE R.R. SIGN (MEN)	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 6
I	ACCESSIBLE R.R. SIGN (WOMEN)	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 6
J	PAPER TOWEL DISPENSER	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 7
K	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 7
L	MIRROR	(REFER TO PROJECT MANUAL)	24" W. x 36" H.	REFER PLANS, ELEVATIONS, LEGEND	--
M	TOILET PARTITIONS	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 1
N	ACCESSIBLE UNIT DOUBLE ROBE HOOK	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	48" MAX. A.F.F. TO CENTER	--
O	DOUBLE ROBE HOOK	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	68" A.F.F. TO CENTER	--
P	SOAP DISH	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	48" MAX. A.F.F. TOP OF DISH	--
Q	SHOWER CURTAIN ROD	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	74 1/2" A.F.F. TO CENTER LINE	NOTES 2 & 3
R	FOLD-UP SHOWER SEAT	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	--
S	MOP HANGER	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	TOP OF SHELF 60" A.F.F.	NOTE 4
T	TRASH CAN (UNDER COUNTER)	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	--	NOTE 5

ACCESSORY GENERAL NOTES:  
1. PHENOLIC OVERHEAD BRACED TOILET PARTITIONS WITH GAP FREE PRIVACY DOORS AND STYLES. THROUGH-BOLTED STAINLESS STEEL HARDWARE IN US32D FINISH. REFER TO FINISH SCHEDULE. ACCESSIBLE STALL DOORS TO BE 32" MINIMUM CLEAR WIDTH PER ADA/ANSI STANDARDS AND NON-ACCESSIBLE STALL DOORS TO BE 24" MINIMUM CLEAR WIDTH.  
2. SHOWER CURTAIN TO BE FURNISHED AND INSTALLED BY OWNER.  
3. PROVIDE LENGTH REQUIRED FOR UNIT.  
4. REFER TO PLUMBING DRAWINGS.  
5. OWNER FURNISHED AND CONTRACTOR INSTALLED.  
6. REFER TO INTERIOR FINISH PLAN SIGN SCHEDULE FOR ADDITIONAL REQUIREMENTS.  
7. "C" FOLD PAPER TOWEL DISPENSER.

**ACCESSORY MOUNTING LEGEND**





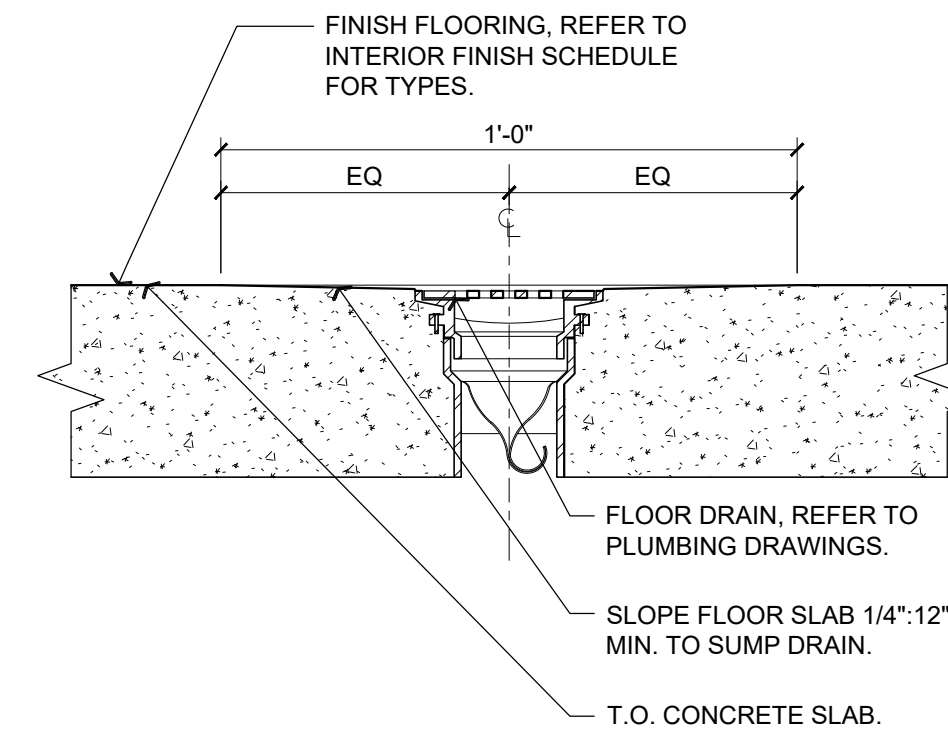


**NOTES:**

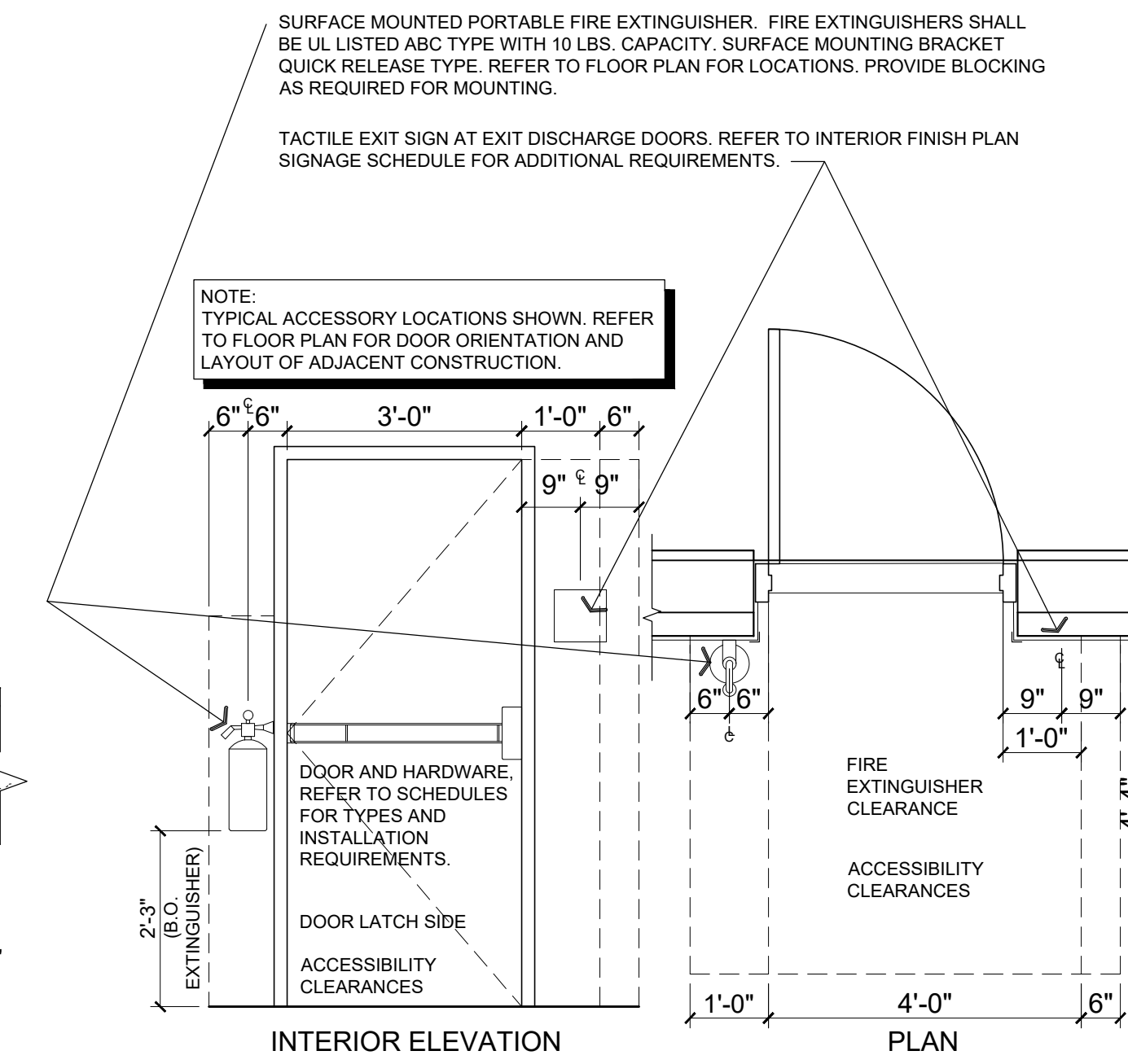
1. NRCA STRONGLY RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
2. VENT STACKS AND OTHER PIPES SHOULD HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
3. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
4. REFER TO THE INTRODUCTION IN CHAPTER 10—CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

**SHEET-METAL STACK VENT [HOT OR COLD]**

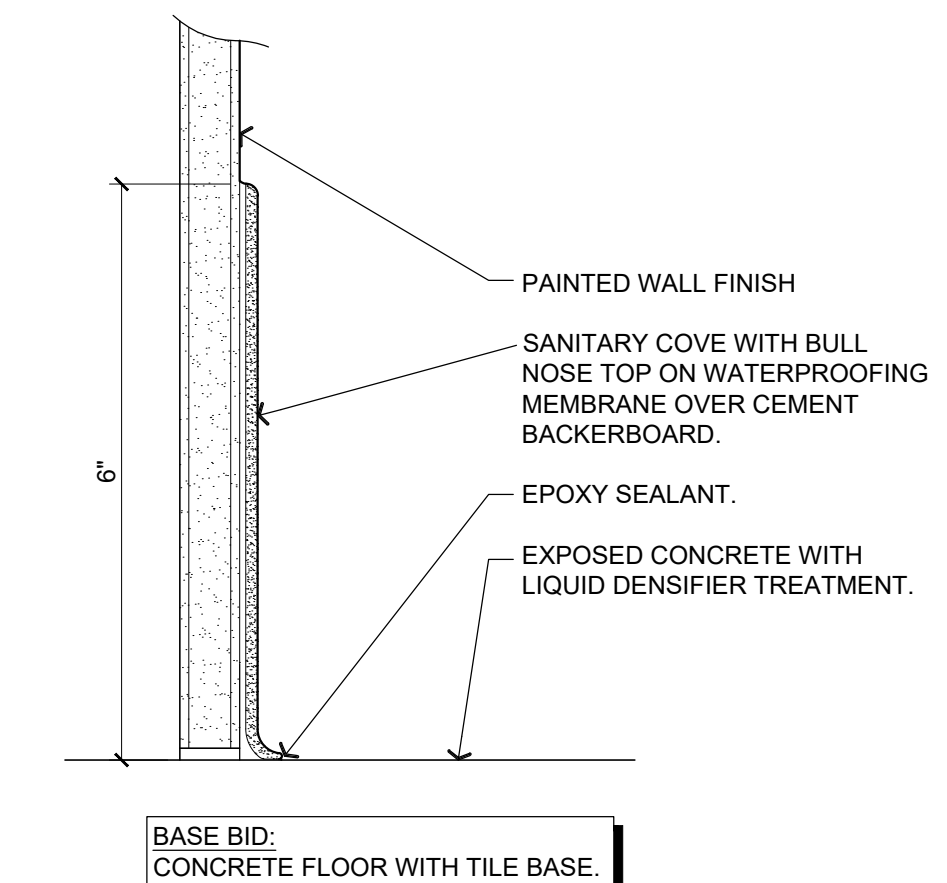
**1**  
A-501 **DETAIL**  
NOT TO SCALE



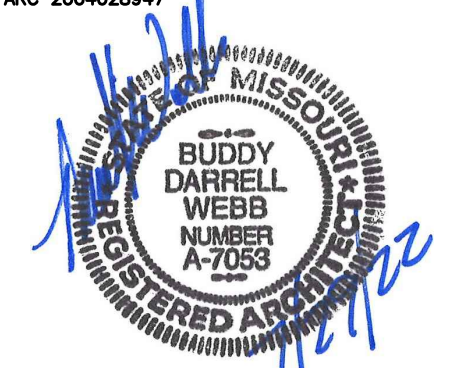
**2**  
A-501 **TYP. FLOOR DRAIN**  
3" = 1'-0"



**3**  
A-501 **FIRE EXTINGUISHER DETAIL**  
1/2" = 1'-0"



**4**  
A-501 **COVE BASE DETAIL**  
6" = 1'-0"



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60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-501  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

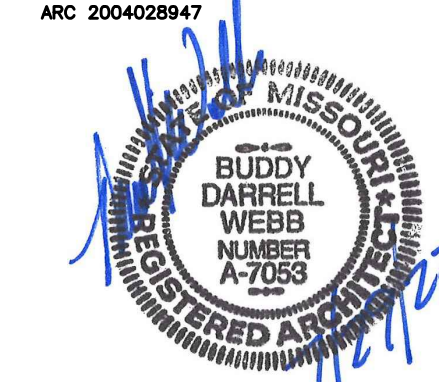
SHEET TITLE:  
**MISCELLANEOUS  
DETAILS**

SHEET NUMBER:

**A-501**

24 OF 36 SHEETS  
07/29/2022





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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A-601  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**DOOR AND WINDOW  
SCHEDULES  
(ALTERNATE NO. 1)**

SHEET NUMBER:

**A-601**

25 OF 36 SHEETS  
07/29/2022

## GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO BUILDING CODE SUMMARY AND STRUCTURAL DRAWINGS FOR PROJECT STRUCTURAL DESIGN CRITERIA. SUBMITTALS SHALL INCLUDE MANUFACTURER'S REQUIREMENTS FOR ANCHOR TYPES, SPACING, AND LOCATIONS REQUIRED FOR PROJECT CONDITIONS.
- (C) DIMENSIONS TO ROUGH FACE OF OPENING UNLESS OTHERWISE INDICATED. FIELD VERIFY FINAL ROUGH OPENING DIMENSIONS PRIOR TO OPENING ASSEMBLY FABRICATION.
- (D) WINDOW TYPE ELEVATIONS SHOWN VIEWED FROM EXTERIOR SIDE.
- (E) REFER TO EXTERIOR FINISH SCHEDULE AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.

## HARDWARE NOTES

- HARDWARE NOTES:**
- ALL HARDWARE TO BE ADA AND ANSI A117.1 COMPLIANT. CLOSURE SPEEDS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. DOOR OPENING FORCE FOR PUSHING OR PULLING OPEN DOORS, OTHER THAN FIRE DOORS, SHALL BE AS FOLLOWS:  
- INTERIOR HINGED DOORS: 5.0 POUNDS MAXIMUM.
  - VERIFY COMPATIBILITY OF HARDWARE SPECIFIED. NOTIFY ARCHITECT OF INCOMPATIBILITY ISSUES PRIOR TO ORDERING AND INSTALLATION.
  - ALL HARDWARE TO BE GRADE 1 (HEAVY DUTY COMMERCIAL).
  - ALL KEYPED HARDWARE TO BE COMPATIBLE WITH OWNER'S KEYING (BEST 7 PIN) SYSTEM. ALL EXTERIOR DOORS TO BE KEYPED ALIKE. ALL HARDWARE CONTRACTOR FURNISHED AND INSTALLED. COORDINATE ORDERING AND DELIVERY REQUIREMENTS WITH OWNER. SUBMIT CORE SCHEDULE AS SPECIFIED TO:  
  
MISSOURI NATIONAL GUARD  
ATTN: JOSEPH SCHAEFER, DESIGN PROJECT MANAGER  
6819 N. BOUNDARY ROAD  
JEFFERSON CITY, MO 65101  
OFFICE (573) 638-9500 EXT. 39692  
CELL: (573) 690-4945  
EMAIL: joseph.e.schaefer10.nfg@mil.mil.

## KEYING LEGEND

- LEVEL 1:  
UPGRADED SECURITY: PERIMETER ENTRANCE
- LEVEL 2:  
BASIC SECURITY: OFFICE, GENERAL STORAGE
- LEVEL 3:  
BASIC SECURITY: MAINTENANCE, MECHANICAL / ELECTRICAL, JANITOR

## GLAZING SCHEDULE

- TYPE 1:  
1" INSULATED SAFETY (FULLY TEMPERED) GLAZING. (REFER TO PROJECT MANUAL SECTION 08 80 00 GLAZING FOR ADDITIONAL REQUIREMENTS).
- EXTERIOR PANE: 1/4" TINTED (SOLARGRAY) (2) SURFACE (LOW-E), HEAT-TREATED (FT)  
AIR CAVITY: 1/2"  
INTERIOR PANE: 1/4" CLEAR, HEAT-TREATED (FT)
- PERFORMANCE REQUIREMENTS:  
VISIBLE LIGHT TRANSMITTANCE (VLT): 35  
VISIBLE LIGHT REFLECTANCE (EXTERIOR %): 6  
VISIBLE LIGHT REFLECTANCE (INTERIOR %): 10  
(NFRC) U-VALUE (WINTER NIGHTTIME): 0.29  
SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.25  
LIGHT TO SOLAR GAIN (LSG): 1.40

ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO  
PROJECT MANUAL - SECTION 01 23  
00 FOR DESCRIPTION OF WORK.

## HARDWARE SCHEDULE

- SET NO. 1 (DOOR: 101)  
2 CONTINUOUS GEARED HINGES  
2 EXTERIOR CYLINDERS WITH REMOVABLE CORES  
2 (ANSI FUNCTION NO. 08) ENTRY LOCK AND EXIT PANIC WITH TWO POINT LOCKING SURFACE VERTICAL RODS, COVER GUARDS, DUST PROOF BOTTOM STRIKES, EXTERIOR LEVER HANDLES WITH ESCUTCHEON TRIM, THRU-BOLT MOUNTED
- 2 CLOSERS WITH COVER, PARALLEL ARM, HOLD OPEN WITH SPRING CUSH, ACCESSORY PLATES AND SPACERS (AS REQUIRED), THRU-BOLT MOUNTED
- 1 SET WEATHER SEAL PERIMETER GASKETS  
1 SET WEATHER SEAL MEETING STILE GASKETS  
2 WEATHER SEAL DOOR BOTTOM SWEEPS  
1 THRESHOLD (ADA / ANSI COMPLIANT)  
1 RAIN DRIP

- SET NO. 2 (DOORS: 103B, 105B, 107B)  
1 CONTINUOUS GEARED HINGE  
1 EXTERIOR CYLINDER REMOVABLE CORE  
1 (ANSI FUNCTION NO. 03) MORTIS ENTRY LOCK AND EXIT PANIC, EXTERIOR LEVER HANDLE WITH ESCUTCHEON TRIM, THRU-BOLT MOUNTED
- 1 CLOSER WITH COVER, PARALLEL ARM, HOLD OPEN WITH SPRING CUSH, THRU-BOLT MOUNTED  
1 KICK PLATE (0.062" X 12" H X 2" L.D.W.)  
1 SET WEATHER SEAL PERIMETER GASKETS  
1 WEATHER SEAL DOOR BOTTOM SWEEP  
1 THRESHOLD (ADA / ANSI COMPLIANT)  
1 RAIN DRIP

- SET NO. 3 (DOOR: 104)  
1 CONTINUOUS GEARED HINGE  
1 EXTERIOR CYLINDER REMOVABLE CORE  
1 (ANSI FUNCTION NO. F04) MORTIS ENTRY LOCK WITH LEVER HANDLES AND ESCUTCHEON TRIM
- 1 CLOSER WITH COVER, PARALLEL ARM, SPRING CUSH, THRU-BOLT MOUNTED  
1 SET WEATHER SEAL PERIMETER GASKETS  
1 WEATHER SEAL DOOR BOTTOM SWEEP  
1 THRESHOLD (ADA / ANSI COMPLIANT)  
1 RAIN DRIP

- SET NO. 4 (DOOR: 102)  
3 BALL BEARING HINGES  
1 (ANSI FUNCTION NO. F86) STOREROOM LOCK WITH LEVER HANDLES  
1 CLOSER WITH COVER, PARALLEL ARM, SPRING CUSH STOP, THRU-BOLT MOUNTED
- 1 SET SMOKE SEAL PERIMETER GASKETS  
1 SMOKE SEAL DOOR BOTTOM SWEEP

- SET NO. 5 (DOORS: 103A, 103C, 105A, 105C, 106B, 107A (ALTERNATE NO. 1) AND, 107C)  
3 BALL BEARING HINGES  
1 (ANSI FUNCTION NO. F75) PASSAGE LATCH WITH LEVER HANDLES  
1 CLOSER WITH COVER, PARALLEL ARM, SPRING CUSH STOP, THRU-BOLT MOUNTED
- 1 KICK PLATE (0.062" X 12" H X 2" L.D.W.)  
1 SET SMOKE SEAL PERIMETER GASKETS  
1 SMOKE SEAL DOOR BOTTOM SWEEP

- SET NO. 6 (DOOR: 106A)  
3 BALL BEARING HINGES  
1 (ANSI FUNCTION NO. F76) PRIVACY LOCK WITH LEVER HANDLES  
1 CLOSER WITH COVER, PARALLEL ARM, SPRING CUSH STOP, THRU-BOLT MOUNTED
- 1 KICK PLATE (0.062" X 12" H X 2" L.D.W.)  
1 SET SMOKE SEAL PERIMETER GASKETS  
1 SMOKE SEAL DOOR BOTTOM SWEEP

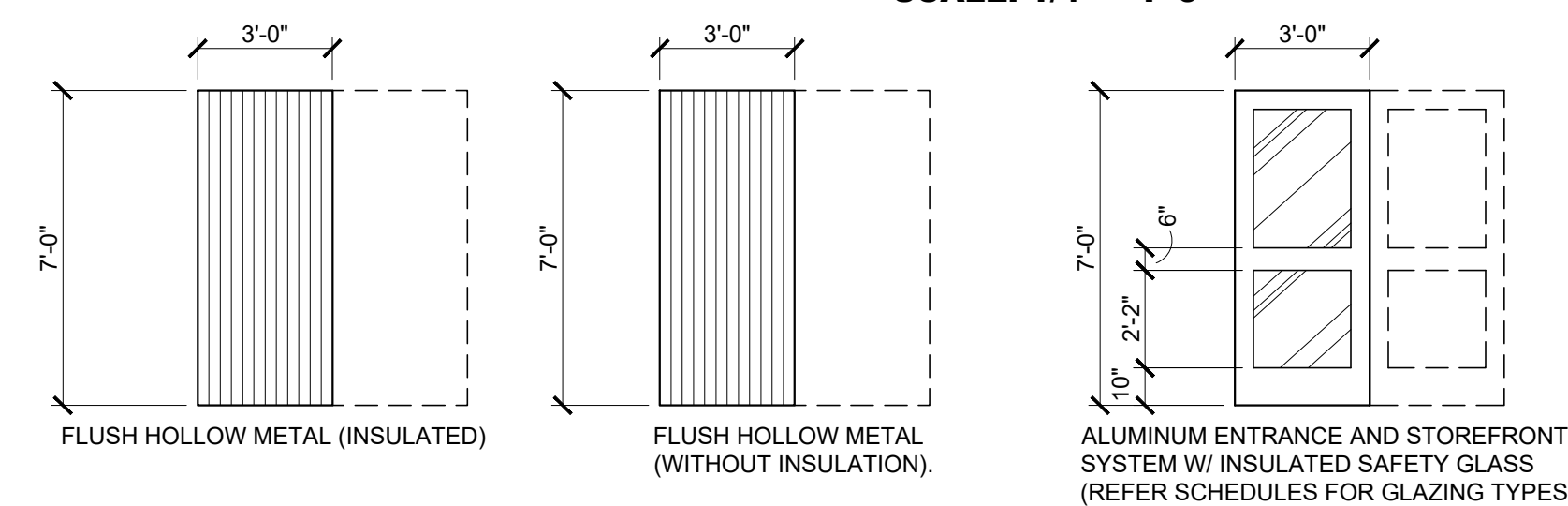
## DOOR SCHEDULE

MARK	DOOR				HARDWARE		FRAME		DETAILS				FIRE RATING	REMARKS (REFER NOTES)	
	SIZE (W x H x D)	TYPE	SWING	MATERIAL	GLAZ. TYPE	SET #	KEYED	TYPE	MATERIAL	HEAD WIDTH	HEAD	JAMB			SILL
101	(PAIR) 3'-0" X 7'-0" X 1 3/4"	CC	RHR/LHR	ALUMINUM	---	1	LEVEL 1	4	ALUMINUM	---	8/A-401	9/A-402	8/A-401 SIMILAR	---	1, 2
102	3'-0" X 7'-0" X 1 3/4"	B	RH	HOL. METAL	---	4	LEVEL 3	3	HOL. METAL	---	1/A-601	2/A-601	-	20 MIN.	1, 2
103A	3'-0" X 7'-0" X 1 3/4"	B	LHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2
103B	3'-0" X 7'-0" X 1 3/4"	A	LHR	HOL. METAL	---	2	LEVEL 1	1	HOL. METAL	---	6/A-401	7/A-401	8/A-401	---	1, 2
103C	3'-0" X 7'-0" X 1 3/4"	B	RHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2
104	3'-0" X 7'-0" X 1 3/4"	A	LHR	HOL. METAL	---	3	LEVEL 3	1	HOL. METAL	---	6/A-401 SIMILAR	7/A-401 SIMILAR	8/A-401	---	1, 2
105A	3'-0" X 7'-0" X 1 3/4"	B	LHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2
105B	3'-0" X 7'-0" X 1 3/4"	A	RHR	HOL. METAL	---	2	LEVEL 1	1	HOL. METAL	---	6/A-401	7/A-401	8/A-401	---	1, 2
105C	3'-0" X 7'-0" X 1 3/4"	B	RHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2
106A	3'-0" X 7'-0" X 1 3/4"	B	LHR	HOL. METAL	---	6	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2
106B	3'-0" X 7'-0" X 1 3/4"	B	LHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2
107A	3'-0" X 7'-0" X 1 3/4"	B	RHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2, 3
107B	3'-0" X 7'-0" X 1 3/4"	A	RHR	HOL. METAL	---	2	LEVEL 1	1	HOL. METAL	---	6/A-401	7/A-401	8/A-401	---	1, 2
107C	3'-0" X 7'-0" X 1 3/4"	B	LHR	HOL. METAL	---	5	---	2	HOL. METAL	---	3/A-601	4/A-601	-	20 MIN.	1, 2

- NOTES:  
1. ALL DOORS SHALL BE SHOP PREPARED FOR HARDWARE.  
2. REFER TO HARDWARE NOTES FOR ADDITIONAL REQUIREMENTS.  
3. ALTERNATE NO. 1: BARRACKS 107 AND SHOWER 107A INTERIOR INFILL. REFER TO PROJECT MANUAL - SECTION 01 23 00 FOR DESCRIPTION OF WORK.

## DOOR TYPES

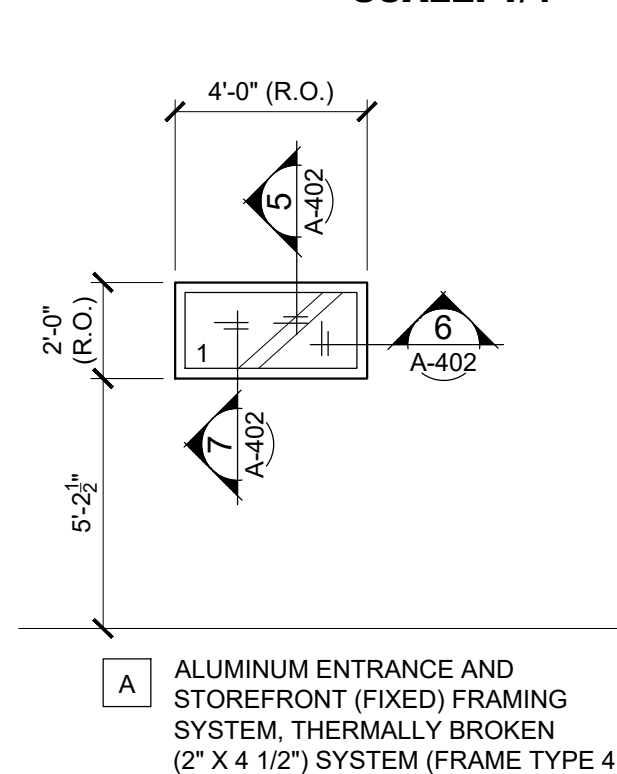
SCALE: 1/4" = 1'-0"



NOTE:  
DASHED IN DOOR AND DOUBLE LETTER INDICATE PAIRED DOOR LOCATIONS

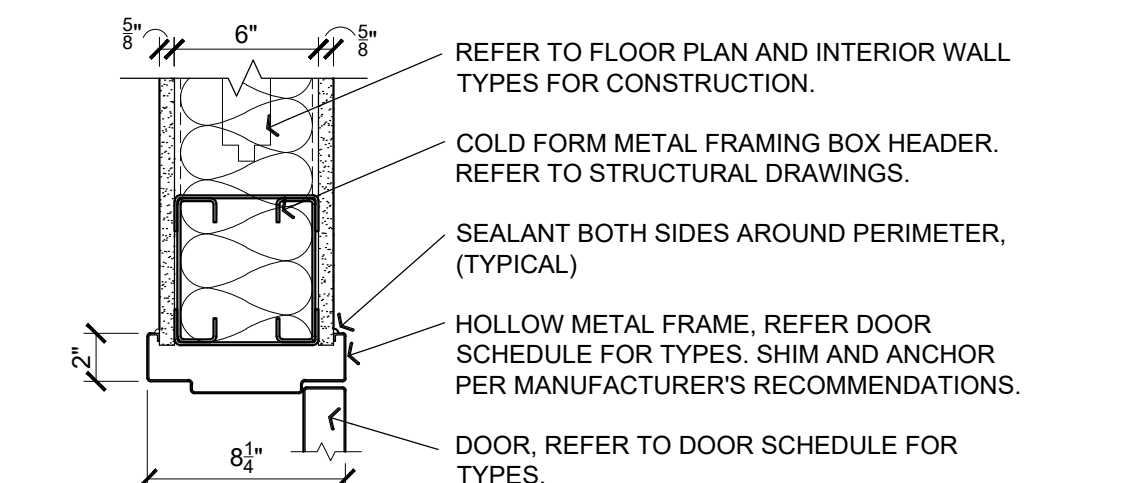
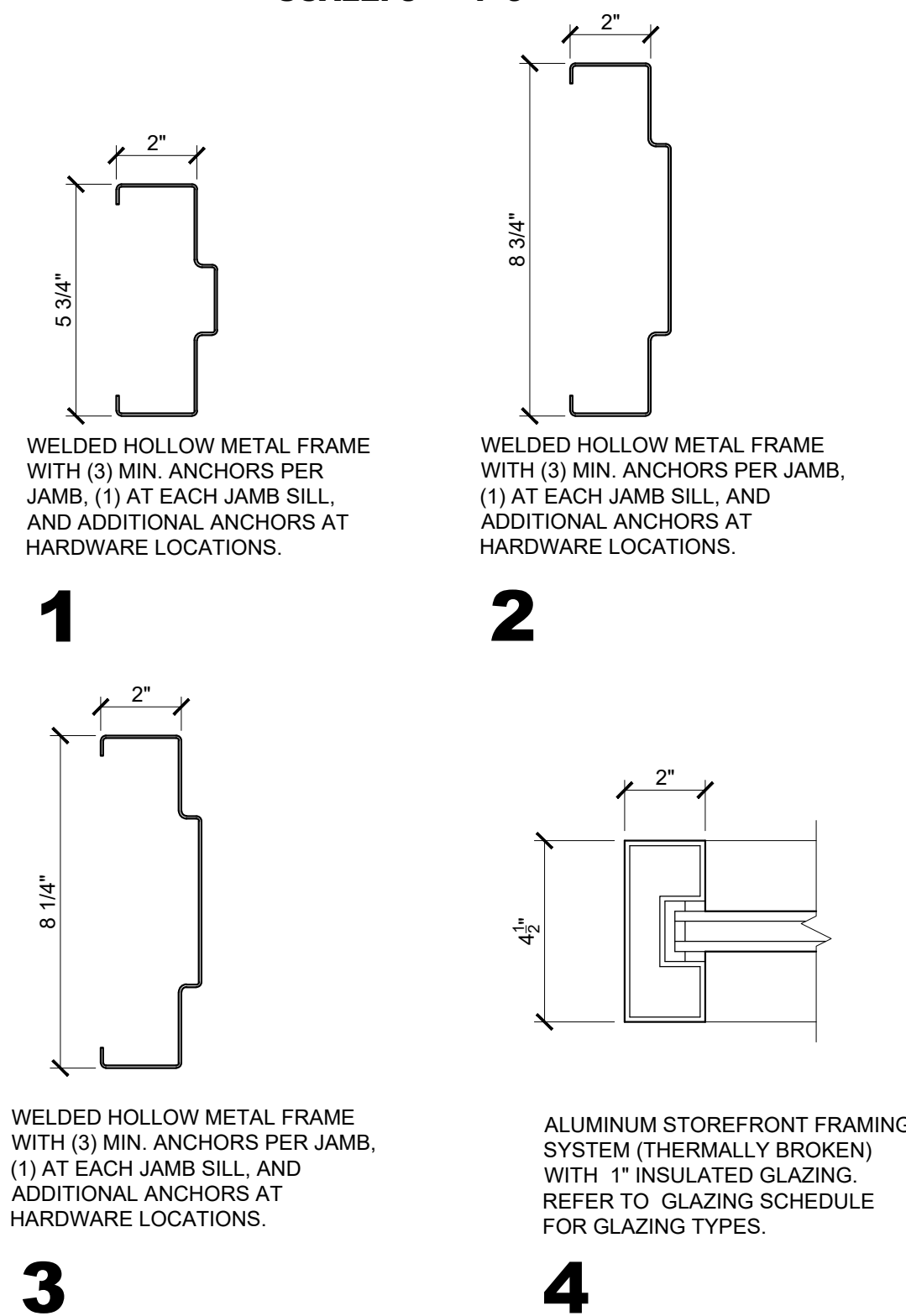
## WINDOW SCHEDULE

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



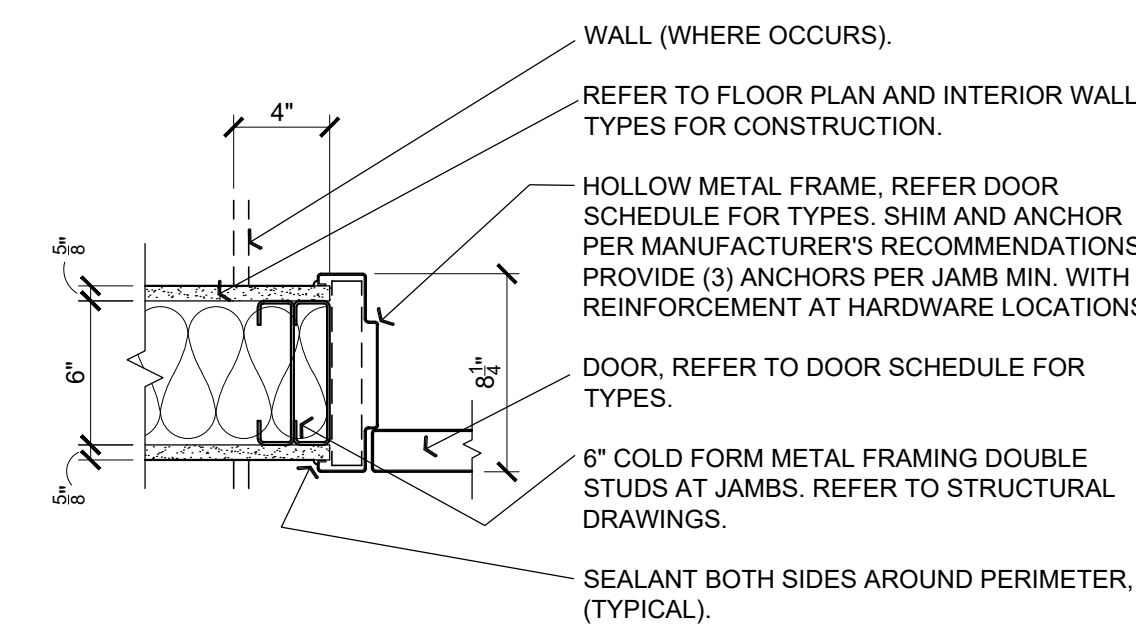
## FRAME TYPES

SCALE: 3" = 1'-0"



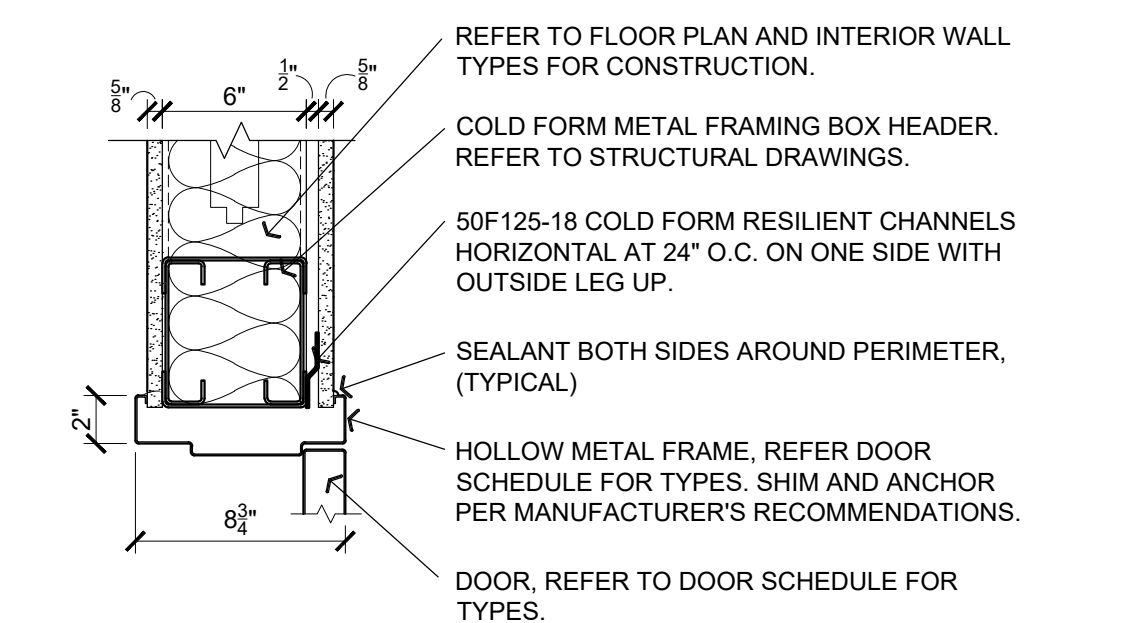
### 1 HEAD DETAIL

A-601 1 1/2" = 1'-0"



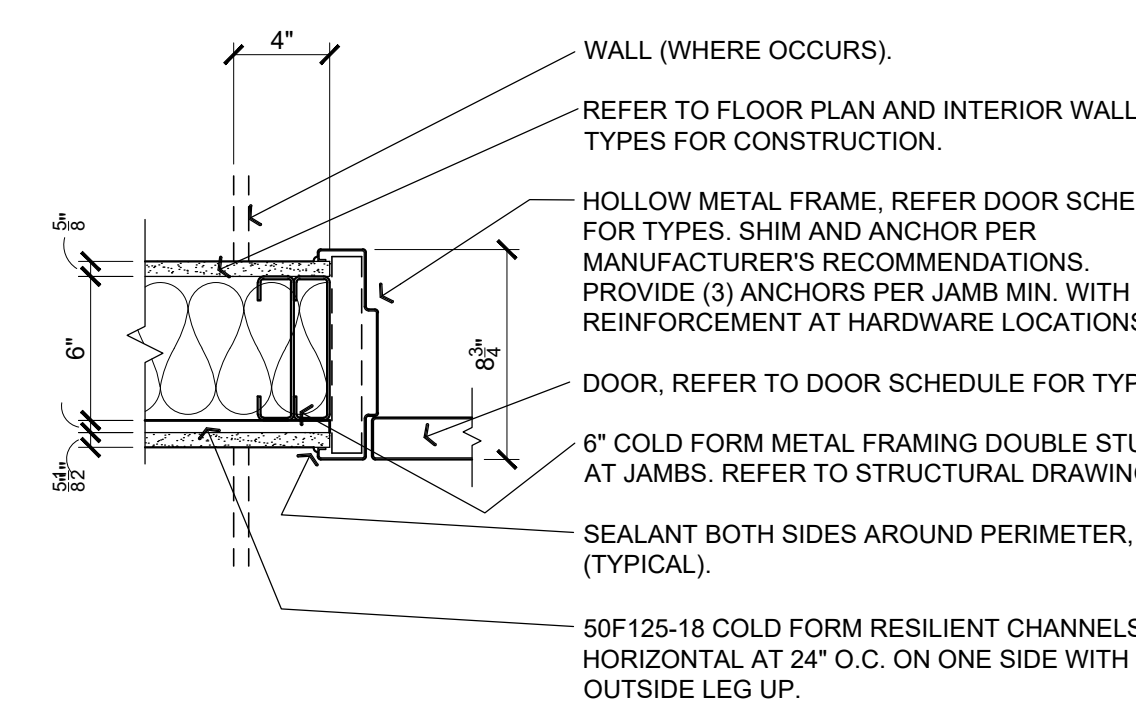
### 2 JAMB DETAIL

A-601 1 1/2" = 1'-0"



### 3 HEAD DETAIL

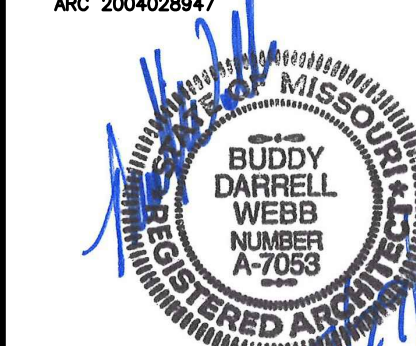
A-601 1 1/2" = 1'-0"



### 4 JAMB DETAIL

A-601 1 1/2" = 1'-0"





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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-A  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**REFLECTED  
CEILING PLAN  
(ALTERNATE NO. 1)**

SHEET NUMBER:

**A-701**

26 OF 36 SHEETS  
07/29/2022

## GENERAL NOTES

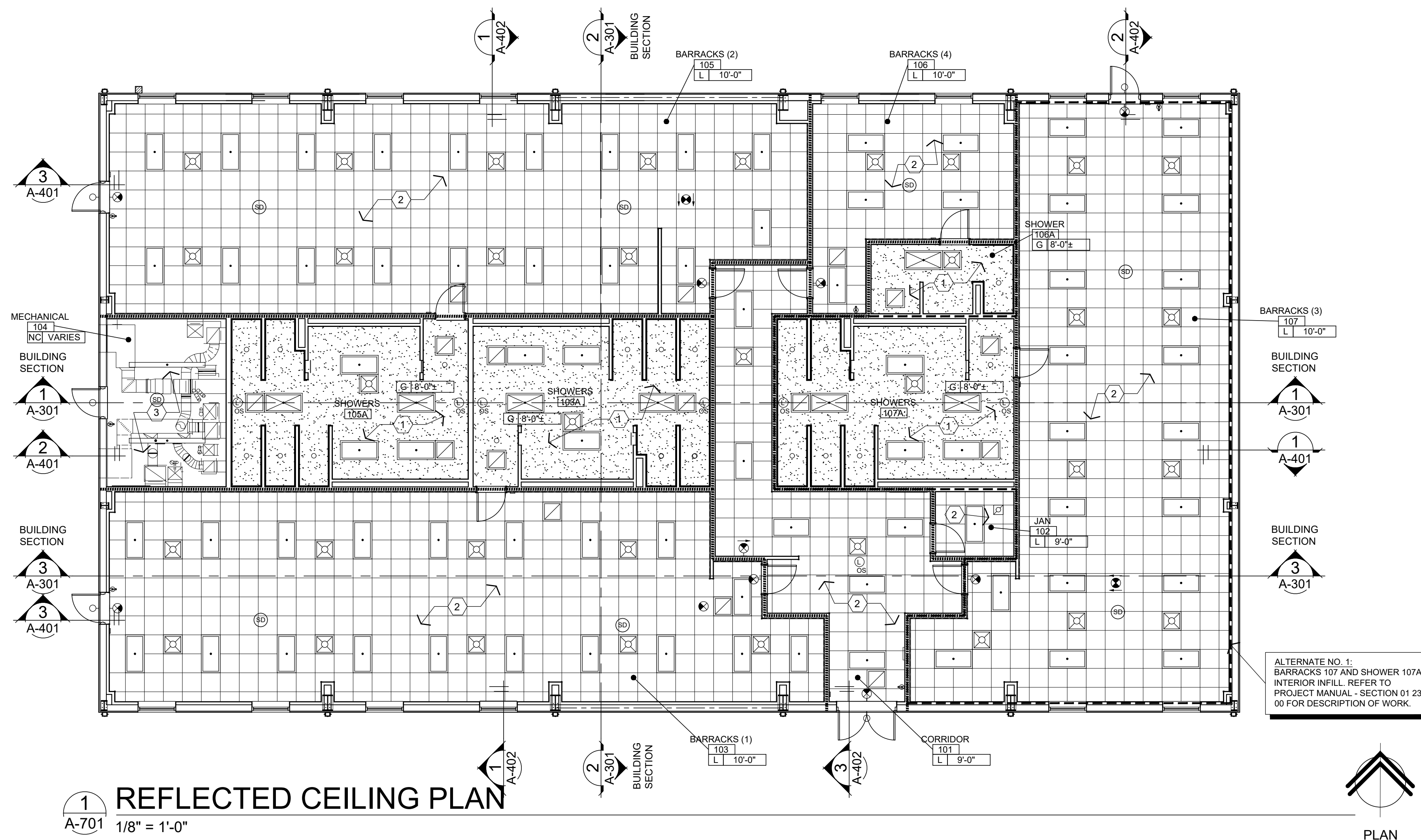
- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO INTERIOR WALL AND CEILING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- (C) MECHANICAL REGISTERS ARE SHOWN ON THIS DRAWING FOR THE ARCHITECTURAL LOCATIONS ONLY. REFER TO THE MECHANICAL DRAWINGS FOR TYPES, SIZES, DISTRIBUTION, CONNECTIONS, AND ALL OTHER REQUIREMENTS.
- (D) LIGHTING FIXTURES ARE SHOWN ON THIS DRAWING FOR THE ARCHITECTURAL LOCATIONS, QUANTITIES, AND GENERAL FIXTURE TYPE ONLY. SEE THE ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE AND CIRCUITING.
- (E) CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEM, LIGHT FIXTURES, CEILING SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED ON THE DRAWING.
- (F) CONTRACTOR TO SUBMIT FIRE SUPPRESSION HEAD LOCATIONS SHOWING COORDINATION WITH REFLECTED CEILING MECHANICAL AND ELECTRICAL SYSTEMS. CENTER HEADS IN TILES.
- (G) REFER TO INTERIOR FINISH PLAN FOR CEILING FINISHES.
- (H) PROVIDE SUSPENDED ACOUSTICAL CEILING TILE HOLD DOWN CLIPS AT AREAS SUBJECT TO UPLIFT. EXTEND 8'-0" MINIMUM INTO INTERIOR AT EXTERIOR DOOR LOCATIONS.
- (I) INDICATED CEILING ELEVATIONS TO BOTTOM OF FRAMING AT GYPSUM BOARD CONSTRUCTION AND BOTTOM OF SUSPENDED ACOUSTICAL CEILING GRID CONSTRUCTION, UNLESS OTHERWISE NOTED.
- (J) PROVIDE SUSPENDED CEILING SEISMIC BRACING, REFER TO DETAILS 2/A-701 AND 3/A-701.
- (K) COORDINATE ATTACHMENT REQUIREMENTS TO PRE-ENGINEERED METAL BUILDING STRUCTURE WITH MANUFACTURER.
- (L) EXPOSED MECHANICAL, ELECTRICAL AND FIRE SUPPRESSION SYSTEMS TO BE INSTALLED IN NEAT AND ORDERLY LAYOUT. PROVIDE FRAMING, SUPPORTS AND ATTACHMENTS AS REQUIRED FOR COMPLETE INSTALLATION.

## KEY NOTES

- (1) 5/8" GYPSUM BOARD ON COLD-FORM METAL JOIST FRAMING. REFER TO STRUCTURAL DRAWINGS AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.
- (2) SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO INTERIOR FINISH PLANS FOR FINISHES.
- (3) EXPOSED UNFINISHED STRUCTURE, MECHANICAL AND ELECTRICAL SYSTEMS.

## SYMBOLS LEGEND

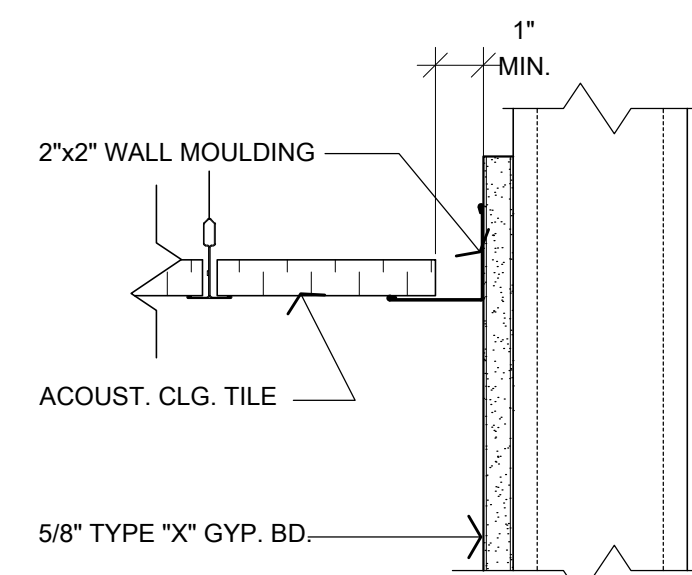
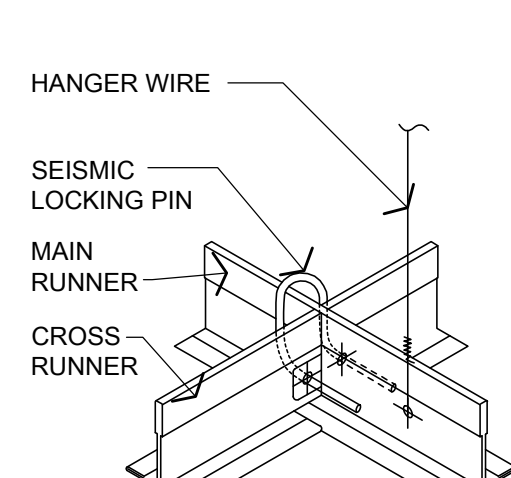
- LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- LIGHT FIXTURE
- SUPPLY GRILLE
- RETURN GRILLE
- CEILING ELEVATION (ABOVE FINISH FLOOR)
- EXIT LIGHT. SHADED SIDE INDICATES FACE OF EXIT SIGN. ARROW INDICATES TRAVEL DIRECTION(S).
- GYPSUM BOARD CEILING CONSTRUCTION
- WALLS THAT EXTEND TO ROOF DECK. REFER TO CODE ANALYSIS PLAN FOR ADDITIONAL REQUIREMENTS.
- CEILING MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED SMOKE DETECTOR SENSOR



## REFLECTED CEILING PLAN

1  
A-701  
1/8" = 1'-0"

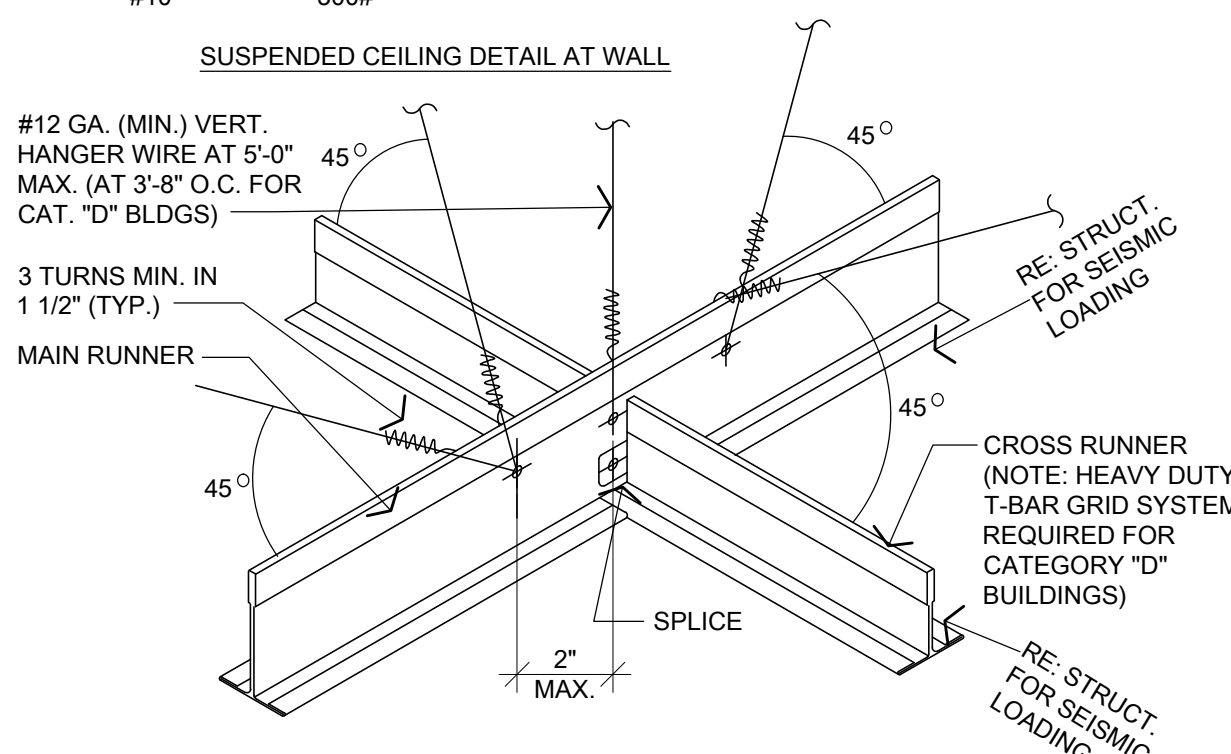
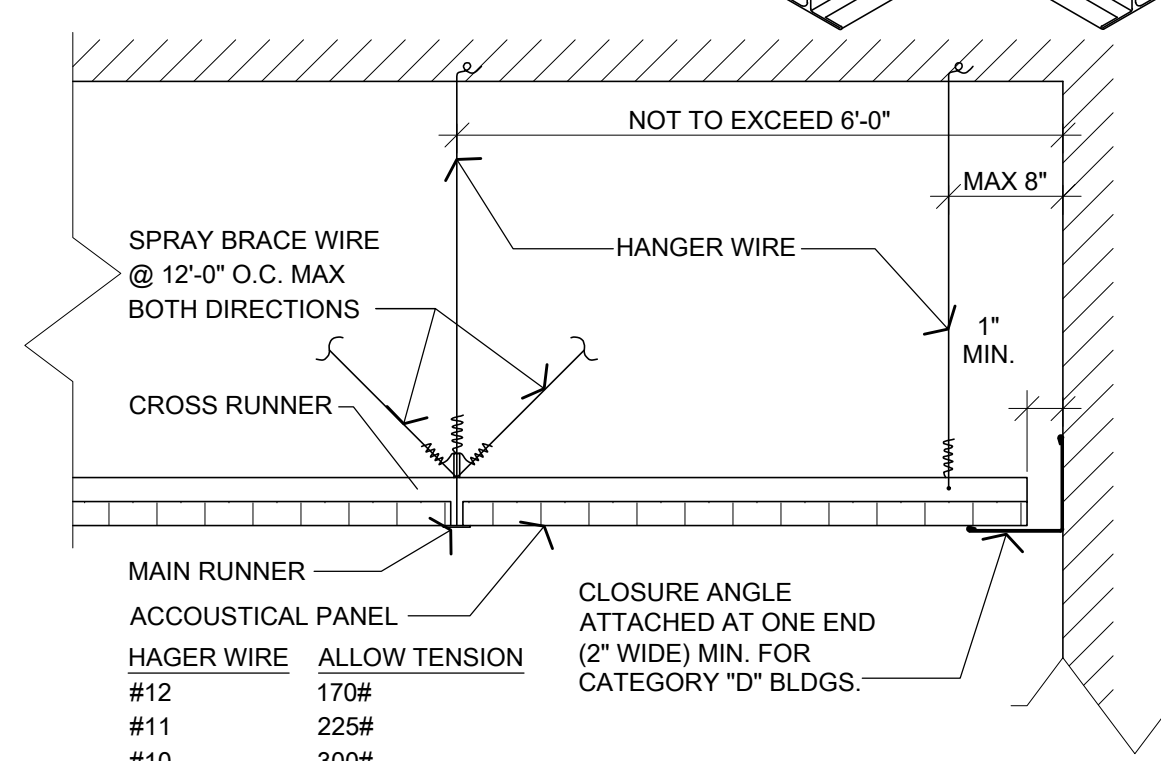
LOCKING CLIP TO FASTEN CROSS RUNNER TO MAIN BEAM RUNNER  
SPICES AND INTERSECTIONS OF RUNNERS SHALL BE ATTACHED WITH MECHANICAL INTERLOCKING CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH BEND TABS, OR OTHER APPROVED CONNECTORS. DESIGN CONNECTORS FOR 2x DESIGN LOAD OR ULTIMATE AXIAL TENSION OR COMPRESSION (MINIMUM 180 POUNDS).



**SPECIAL NOTE:**  
REFER TO SHEET G-101 FOR PROJECT SEISMIC DESIGN CATEGORY TO DETERMINE INSTALLATION REQUIREMENTS.

## 3 SUSP. CLG. PERM. DETAIL

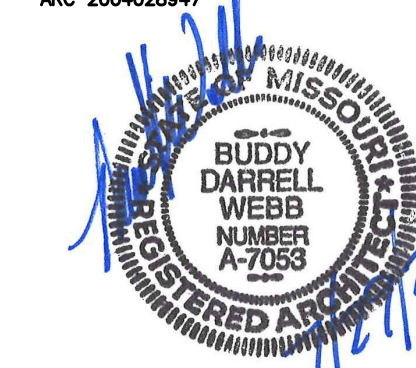
3  
A-701  
3" = 1'-0"



## 2 SUSP. CLG. SEISMIC DETAIL

2  
A-701  
NOT TO SCALE





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REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-I-101  
DRAWN BY: BW-AP  
CHECKED BY: BDW  
DESIGNED BY: BW-AP

SHEET TITLE:  
**INTERIOR FINISH  
PLAN (ALTERNATES  
NO. 1 & NO. 3)**

SHEET NUMBER:

**I-101**

27 OF 36 SHEETS  
07/29/2022

## INTERIOR FINISH TYPES

- F1** TYPE: EXPOSED CONCRETE WITH LIQUID DENSIFIER TREATMENT (REFER PROJECT MANUAL)  
MFG: CLEAR  
COLOR: CLEAR
- AF2** BASE BID: PROVIDE FLOOR FINISH TYPE "F1".  
ALTERNATE NO. 3:  
TYPE: RESINOUS FLOORING (SEAMLESS)  
MFG: "DUR-A-FLEX" - DUR-A-CHIP (BASIS FOR DESIGN)  
COLOR: COBBLESTONE (GRAY WITH BLACK, GRAY, BEIGE AND WHITE FLAKES)  
FINISH: MACRO / COURSE (NON-SLIP)
- B1** TYPE: RESILIENT BASE  
MFG: JOHNSONITE OR EQUAL (BASIS FOR DESIGN)  
MATERIAL: RUBBER  
COLOR: 40 BLACK  
SIZE: 6" (TYPE TS)
- B2** TYPE: TILE BASE  
MFG: DAL-TILE OR EQUAL (BASIS FOR DESIGN)  
SERIES: COLOR WHEEL COLLECTION - CLASSIC  
COLOR: MATTE DESERT GRAY X714 (OR EQUAL)  
SIZE: 6" X 6" SANITARY COVE WITH BULLNOSE TOP OR FLAT TOP, REFER TO DETAILS 4/A-501 & 3/1-101.  
NOTE: PROVIDE SPECIAL SHAPES FOR INSIDE CORNER, OUTSIDE CORNER, AND FINISH TYPE TRANSITIONS. (OMIT AT ALTERNATE NO. 3 LOCATIONS)
- BASE BID: PROVIDE BASE FINISH TYPE "B2".  
ALTERNATE NO. 3:  
TYPE: RESINOUS FLOORING (SEAMLESS)  
MFG: "DUR-A-FLEX" - DUR-A-CHIP (BASIS FOR DESIGN)  
COLOR: COBBLESTONE (GRAY WITH BLACK, GRAY, BEIGE AND WHITE FLAKES)  
FINISH: MACRO / COURSE (NON-SLIP)  
EXTEND UP WALL INTEGRAL WITH FLOORING 6", REFER TO DETAIL 7/1-101.
- AB3** TYPE: RESINOUS FLOORING (SEAMLESS)  
MFG: "DUR-A-FLEX" - DUR-A-CHIP (BASIS FOR DESIGN)  
COLOR: COBBLESTONE (GRAY WITH BLACK, GRAY, BEIGE AND WHITE FLAKES)  
FINISH: MACRO / COURSE (NON-SLIP)  
EXTEND UP WALL INTEGRAL WITH FLOORING 6", REFER TO DETAIL 7/1-101.
- W1** TYPE: GYPSUM BOARD  
FINISH: PAINT (FIELD)  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: SW 7029 (AGREEABLE GRAY)  
SHEEN: SEMI-GLOSS
- W2** TYPE: GYPSUM BOARD  
FINISH: PAINT (FIELD)  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: SW 7029 (AGREEABLE GRAY) (MOLD AND MILDEW RESISTANT)  
SHEEN: SEMI-GLOSS
- W3** TYPE: GYPSUM BOARD  
FINISH: PAINT (ACCENT)  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: SW 6425 (RELENTLESS OLIVE)  
SHEEN: SEMI-GLOSS
- W4** TYPE: GLAZED CERAMIC TILE  
MFG: DAL-TILE OR EQUAL (BASIS FOR DESIGN)  
SERIES: COLOR WHEEL COLLECTION - CLASSIC  
COLOR: MATTE ARCTIC WHITE 0790 (1) (OR EQUAL)  
SIZE: 6" X 6"  
PATTERN: STACKED  
MFG: MAPEI (BASIS FOR DESIGN)  
GROUT: KERAPoxy CO (BASIS FOR DESIGN)  
COLOR: 38 AVALANCHE (OR EQUAL)  
NOTE: PROVIDE SPECIAL SHAPES FOR INSIDE CORNERS, OUTSIDE CORNERS, AND EDGE FINISH TRANSITIONS.
- W5** TYPE: PRE-ENGINEERED METAL BUILDING LINER PANEL  
STYLE: CHIEF CS/AP PANEL WALL SYSTEM  
COLOR: FROST WHITE (FW)
- C1** TYPE: SUSPENDED ACOUSTICAL CEILING  
MFG: ARMSTRONG OR EQUAL (BASIS FOR DESIGN)  
STYLE: DUNE  
ITEM NO.: 1774  
SIZE: 24"X24"X5/8"  
EDGE: ANGLED TEGULAR  
COLOR: WHITE  
GRID: ALUMINUM 15/16" EXPOSED TEE  
COLOR: WHITE
- C2** TYPE: GYPSUM BOARD  
TEXTURE: LEVEL 5 SMOOTH DRYWALL SURFACE  
FINISH: PAINT  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: SW 7029 (AGREEABLE GRAY) (MOLD AND MILDEW RESISTANT)  
SHEEN: SEMI-GLOSS
- C3** TYPE: EXPOSED STRUCTURE  
FINISH: UNFINISHED
- D1** TYPE: INTERIOR SURFACES HOLLOW METAL DOORS & FRAMES  
FINISH: PAINT  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: SW 6991 (BLACK MAGIC)  
SHEEN: SEMI-GLOSS
- D2** TYPE: EXTERIOR SURFACES DOORS & FRAMES  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: GLOSS  
SHEEN: GLOSS
- SS1** TYPE: SOLID SURFACE FABRICATIONS  
MFG: WILSONART OR EQUAL (BASIS FOR DESIGN)  
COLOR: MIDNIGHT FROST 9244SS  
LAVATORY: WILSONART "AV1812" OR EQUAL (BASIS FOR DESIGN)
- SP1** TYPE: TOILET COMPARTMENTS  
MFG: ASI - ACCURATE PARTITIONS OR EQUAL (BASIS FOR DESIGN)  
COLOR: GRAPHITE GRAFIX 3020 (BLACK CORE)
- SP2** TYPE: METAL SUPPORT BRACKETS AT LAVATORY LOCATIONS  
FINISH: PAINT  
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)  
COLOR: SW 6991 (BLACK MAGIC) (MATCH "D1")  
SHEEN: SEMI-GLOSS

## GENERAL NOTES

- A** REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B** FINAL COLORS AND TEXTURES TO BE SELECTED BY OWNER FROM MANUFACTURER'S SPECIFIED SAMPLES.
- C** PROVIDE FLOORING TRANSITIONS, REDUCERS AND EDGING AS REQUIRED FOR SPECIFIC CONDITIONS.
- D** REFER TO EXTERIOR FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- E** REFER TO ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- F** REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL REQUIREMENTS.
- G** GYPSUM BOARD FINISH TEXTURE TO BE SMOOTH FINISH ON "LEVEL 5" SURFACE. FINAL TEXTURES TO BE SELECTED BY OWNER FROM SPECIFIED SAMPLES.
- H** ALL GYPSUM BOARD EXPOSED WALLS TO BE FINISH TYPE "W1" UNLESS OTHERWISE INDICATED.
- I** ALL GYPSUM BOARD EXPOSED WALLS TO BE PROVIDED WITH BASE FINISH TYPE "B1" UNLESS OTHERWISE INDICATED.
- J** ALL SHOWER ENCLOSURE WALLS TO BE FINISH TYPE "W4" UNLESS OTHERWISE INDICATED.
- K** ALL INTERIOR STEEL DOORS AND FRAMES TO BE FINISH TYPE "D1" UNLESS OTHERWISE INDICATED. ALL EXTERIOR STEEL DOORS AND FRAMES TO BE FINISH TYPE "D1" ON INTERIOR SIDE AND FINISH TYPE "D2" ON EXTERIOR SIDE OF DOOR.
- L** ALL TOILET COMPARTMENTS TO BE FINISH TYPE "SP1".
- M** ALL MILLWORK AND WINDOW SILL SOLID SURFACE FABRICATIONS TO BE FINISH TYPE "SS1", UNLESS OTHERWISE INDICATED.
- N** PROVIDE SEALANT AT ALL EXPOSED CONCRETE FLOOR JOINTS. COLOR TO MATCH NATURAL CONCRETE GRAY.
- O** ALL ELECTRICAL DEVICES TO BE BLACK FINISH AND COVER PLATES TO BE STAINLESS STEEL FINISH, UNLESS OTHERWISE INDICATED.
- P** ALL WINDOW OPENINGS TO BE PROVIDED WITH WINDOW BLINDS. COLOR TO MATCH WINDOW FRAME.
- Q** ALL METAL SUPPORT BRACKETS FOR MILLWORK TO BE PAINTED "SP2", UNLESS OTHERWISE INDICATED.

## KEY NOTES

- 1** RESIN FLOORING TO CONCRETE FLOOR FINISH TRANSITION, REFER TO DETAIL 8/1-101 (ALTERNATE NO. 3).
- 2** CONCRETE FLOOR JOINTS, REFER TO STRUCTURAL. PROVIDE SEALANT AT ALL EXPOSED LOCATIONS.
- 3** CORNER GUARD, REFER TO DETAIL 5/1-101.
- 4** WALL END CORNER GUARD, REFER TO DETAIL 6/1-101.
- 5** DRINKING FOUNTAIN STAINLESS STEEL (24 GA. WITH US32D FINISH) WALL COVERING WITH EXPOSED EDGES BEVELED, REFER TO INTERIOR ELEVATIONS.
- 6** TILE TO PAINT WALL FINISH TRANSITION.

## SIGNAGE GENERAL NOTES

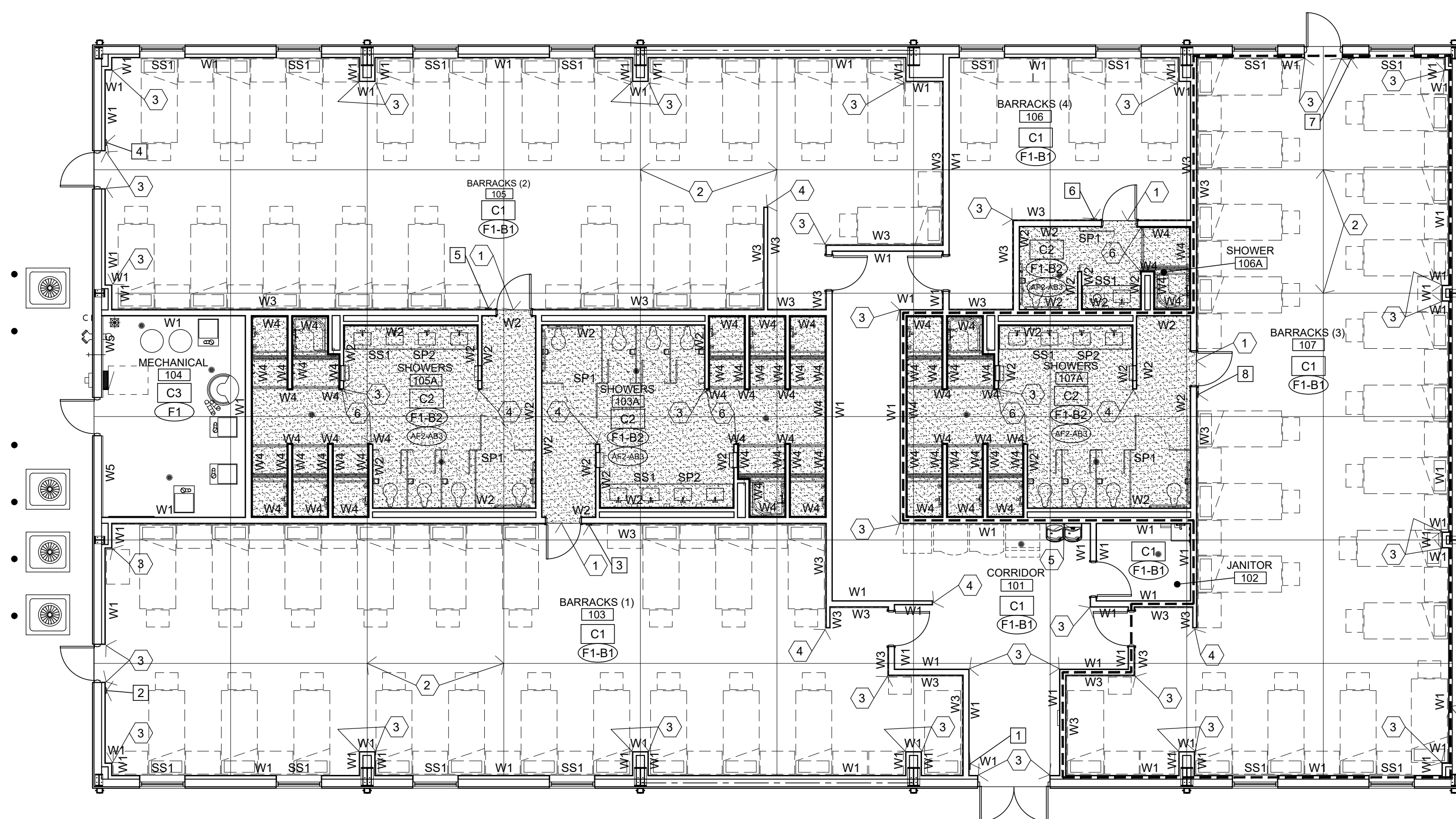
- A.** CONFIRM ALL ROOM SIGNAGE COPY WITH OWNER.
- B.** FOR TYPICAL SIGN MOUNTING HEIGHT REFER TO DETAIL 4/1-101.
- C.** SIGN DIMENSIONS SHOWN REFLECT FACE PLATE ONLY.
- D.** THE MOUNTING LOCATION OF INTERIOR SIGNS SHOULD BE ARRANGED SO THAT A PERSON CAN APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR A DOOR SWING.
- E.** SIGNAGE COLORS TO BE WHITE TEXT AND SYMBOLS ON BLUE (NO. 15090 IN FEDERAL STANDARD 595B) BACKGROUND. COPY AND GRAPHICS TO BE A CONTRASTING COLOR. ARCHITECT TO SELECT FINAL COLORS FROM MANUFACTURER'S FULL RANGE OF COLORS.
- F.** SIGN MATERIAL TO LAMINATED-SHEET, SANDBLASTED POLYMER FACE SHEET WITH RAISED GRAPHICS LAMINATED TO ACRYLIC OR PHENOLIC BACKING TO PRODUCE COMPOSITE SHEET. COMPOSITE SHEET THICKNESS TO BE 1/4". SURFACE FINISH AND APPLIED GRAPHICS TO BE MANUFACTURER'S STANDARD FACTORY APPLIED EXTERIOR GRADE SIGN PAINT.

## SIGNAGE SCHEDULE

SIGN NO.	ROOM NO.	SIGN TYPE	SIGN COPY	PICTOGRAMS TYPE(S)
1	101	2/1-101	EXIT	A
2	103	2/1-101	EXIT	A
3	103	2/1-101	MEN	A & B
4	105	2/1-101	EXIT	A
5	105	2/1-101	MEN	A & B
6	106	2/1-101	WOMEN	A & C
7	107	2/1-101	EXIT	A
8	107	2/1-101	MEN	A & B

## SYMBOLS LEGEND

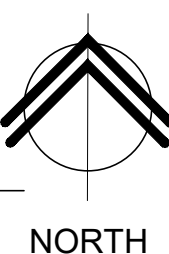
- (F-X-B)** FLOOR OR BASE FINISH TYPE
- CX** CEILING FINISH TYPE
- WX** WALL FINISH TYPE(S) AND TRIM TYPE(S)
- [PATTERN]** FLOOR FINISH PATTERN
- [X]** SIGN TYPE NUMBER, REFER SIGN SCHEDULE



ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL, REFER TO  
PROJECT MANUAL - SECTION 01 23 00  
FOR DESCRIPTION OF WORK.

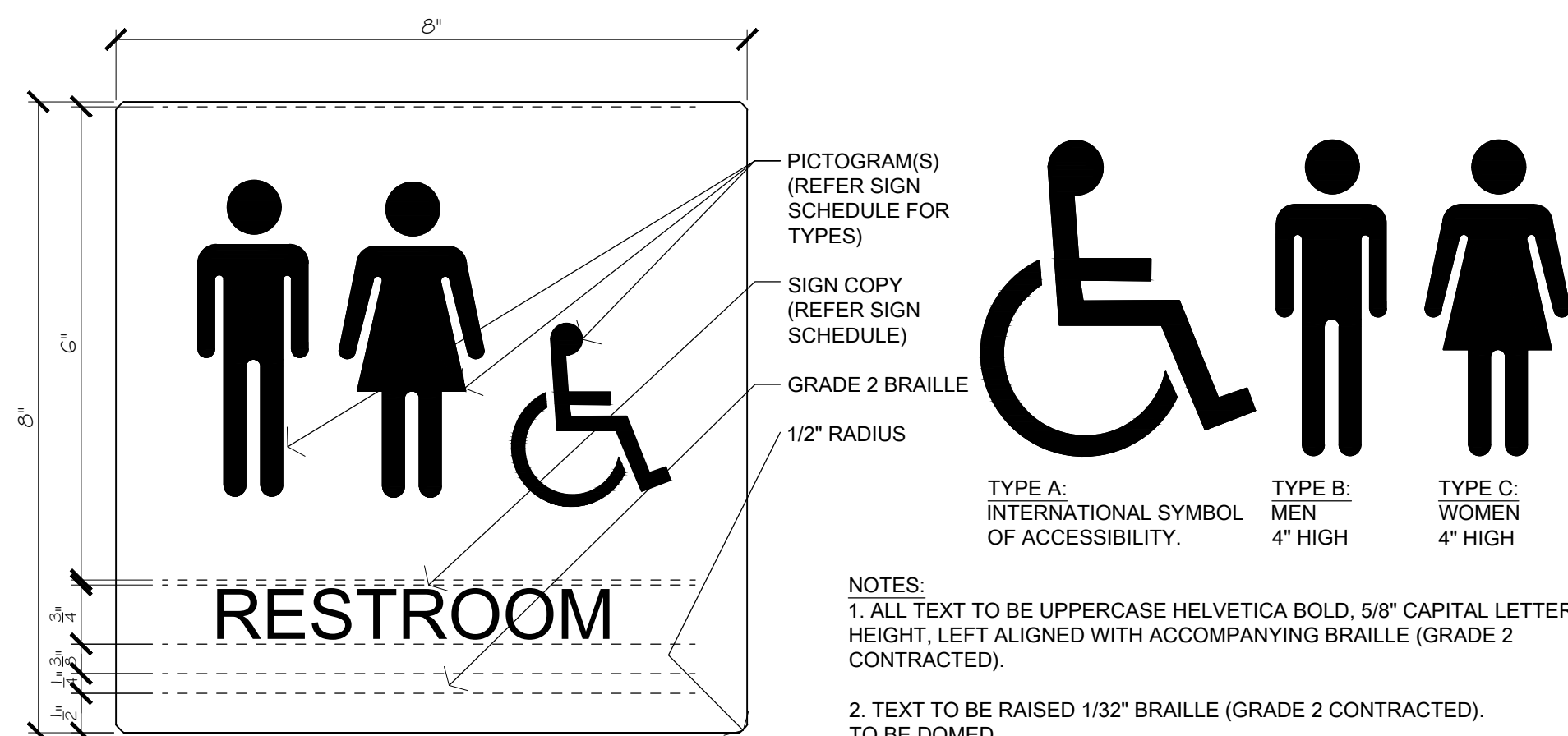
ALTERNATE NO. 1  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL, REFER TO PROJECT MANUAL - SECTION  
01 23 00 FOR DESCRIPTION OF WORK.

ALTERNATE NO. 3:  
RESINOUS FLOORING AND BASE.

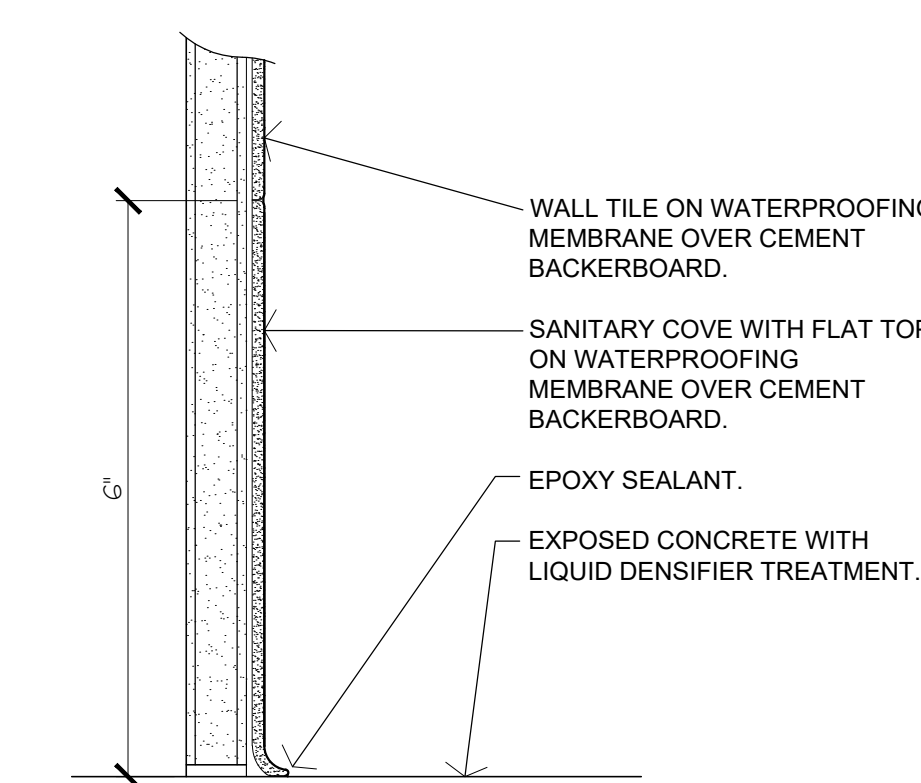


## 1 INTERIOR FINISH PLAN

1-101 1/8" = 1'-0"



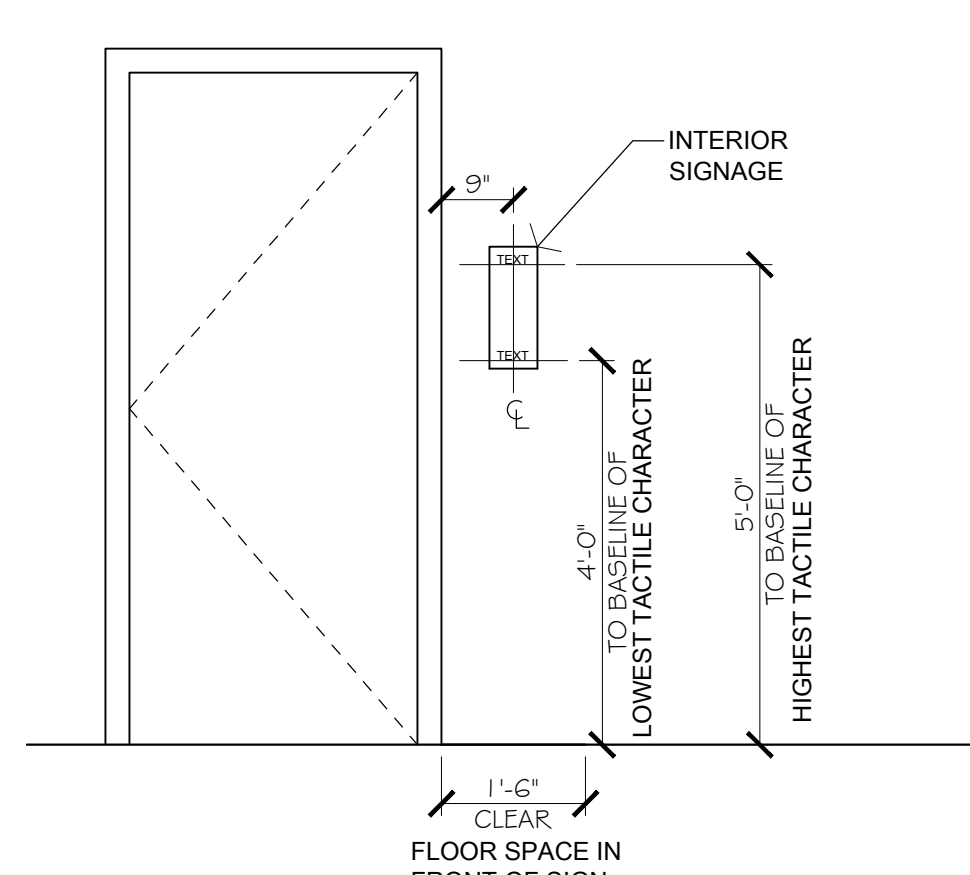
- NOTES:**
- ALL TEXT TO BE UPPERCASE HELVETICA BOLD. 5/8" CAPITAL LETTER HEIGHT. LEFT ALIGNED WITH ACCOMPANYING BRAILLE (GRADE 2 CONTRACTED).
  - TEXT TO BE RAISED 1/32" BRAILLE (GRADE 2 CONTRACTED). TO BE DOMED.
  - PICTOGRAMS ILLUSTRATED FOR GRAPHIC PROPORTIONS ONLY. REFER TO SIGN TYPE FOR PICTOGRAM HEIGHTS REQUIRED.



BASE BID:  
CONCRETE FLOOR WITH TILE BASE.

## 3 COVE BASE DETAIL

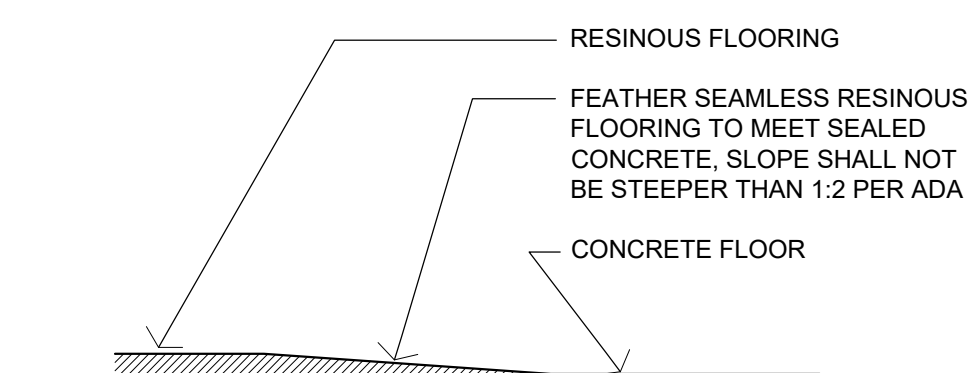
1-101 6" = 1'-0"



- NOTES:**
- INSTALL INTERIOR SIGNS THAT IDENTIFY ROOMS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. IF THERE IS NOT ADEQUATE SPACE ADJACENT TO THE LATCH SIDE OF THE DOOR ON THE WALL, MOUNT THE SIGN ON THE DOOR. CENTER THE SIGN ALONG THE WIDTH OF THE DOOR AND MOUNT AS THE SAME HEIGHTS AS INDICATED ABOVE.
  - MOUNT WITH CONCEALED ANCHORS, PER MANUFACTURER'S STANDARD METHOD FOR SUBSTRATE. SIGN PANEL SHALL REMAIN FLAT UNDER INSTALLED CONDITIONS AS INDICATED AND WITHIN A TOLERANCE OF +/- 1/16" MEASURED DIAGONALLY FROM CORNER TO CORNER.

## 4 TYP. SIGN MOUNTING

1-101 1/2" = 1'-0"



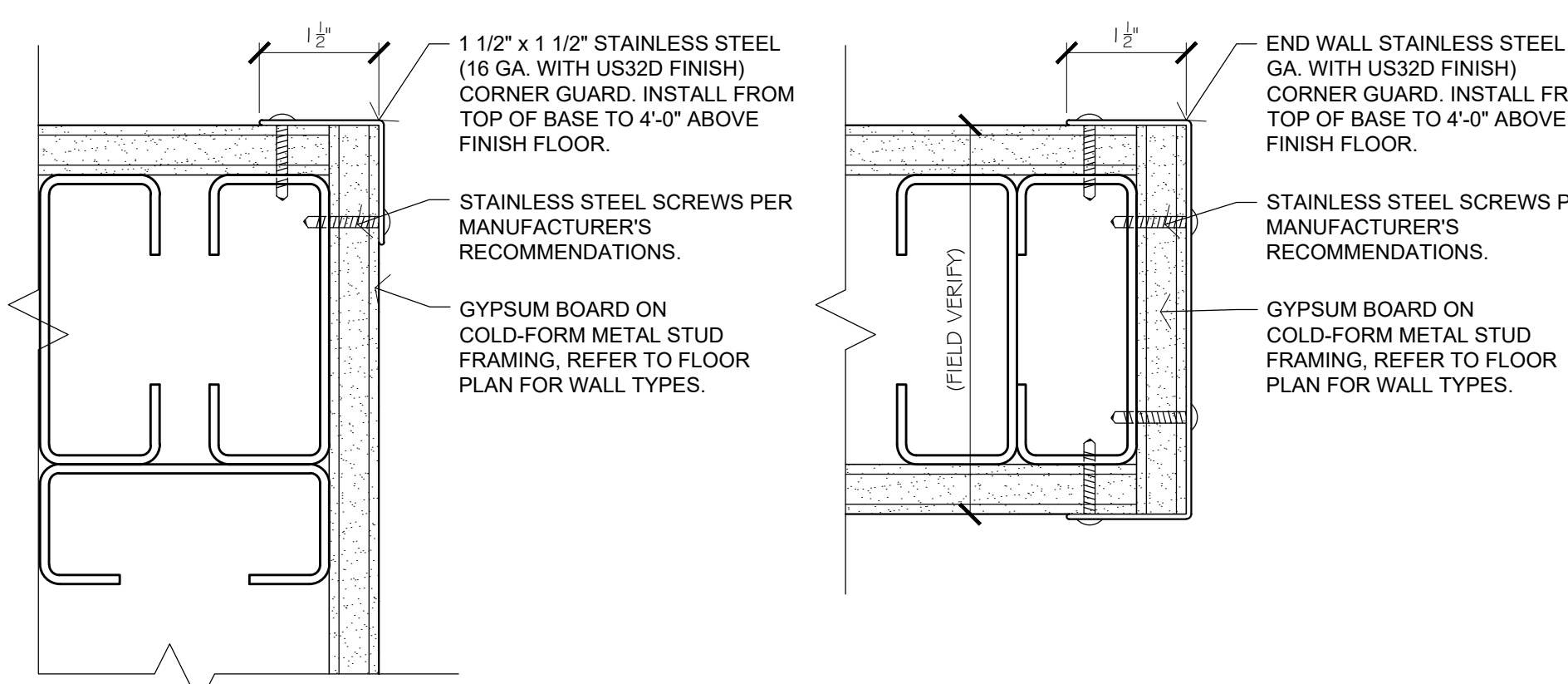
ALTERNATE NO. 2:  
RESINOUS FLOORING AND BASE.

## 8 FLOOR TRANSITION

1-101 6" = 1'-0"

## 2 PICTOGRAM SIGNS

1-101 6" = 1'-0"



## 5 CORNER GUARD

1-101 6" = 1'-0"

## 6 CORNER GUARD

1-101 6" = 1'-0"

## 7 COVE BASE DETAIL

1-101 6" = 1'-0"

## 8 FLOOR TRANSITION

1-101 6" = 1'-0"



**KEYNOTES:**

○ WALL PACKS SHALL BE MOUNTED AT APPROXIMATELY 9'-0". REFER TO LIGHTING PLAN FOR CIRCUITRY.

**SPECIAL NOTE:**

A UTILITY INFRASTRUCTURE PROJECT (T2124-01) IS IN PROGRESS AT THE WAPPAPPELLO TRAINING SITE. REFER TO SITE UTILITY PLAN SHEET C-104 FOR ADDITIONAL INFORMATION. COORDINATE ALL UTILITY WORK WITH THE WAPPAPPELLO TRAINING SITE FACILITY MANAGER AND MISSOURI NATIONAL GUARD (MONG) REPRESENTATIVE.



07-29-22

RYAN S. JONES - ENGINEER  
PE-2004017193  
PROFESSIONAL SEAL

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DESIGN AND CONSTRUCTION

DEPARTMENT OF  
PUBLIC SAFETY  
MISSOURI ARMY  
NATIONAL GUARD

CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-SE-101  
DRAWN BY: TJG  
CHECKED BY: RSJ  
DESIGNED BY: TJG

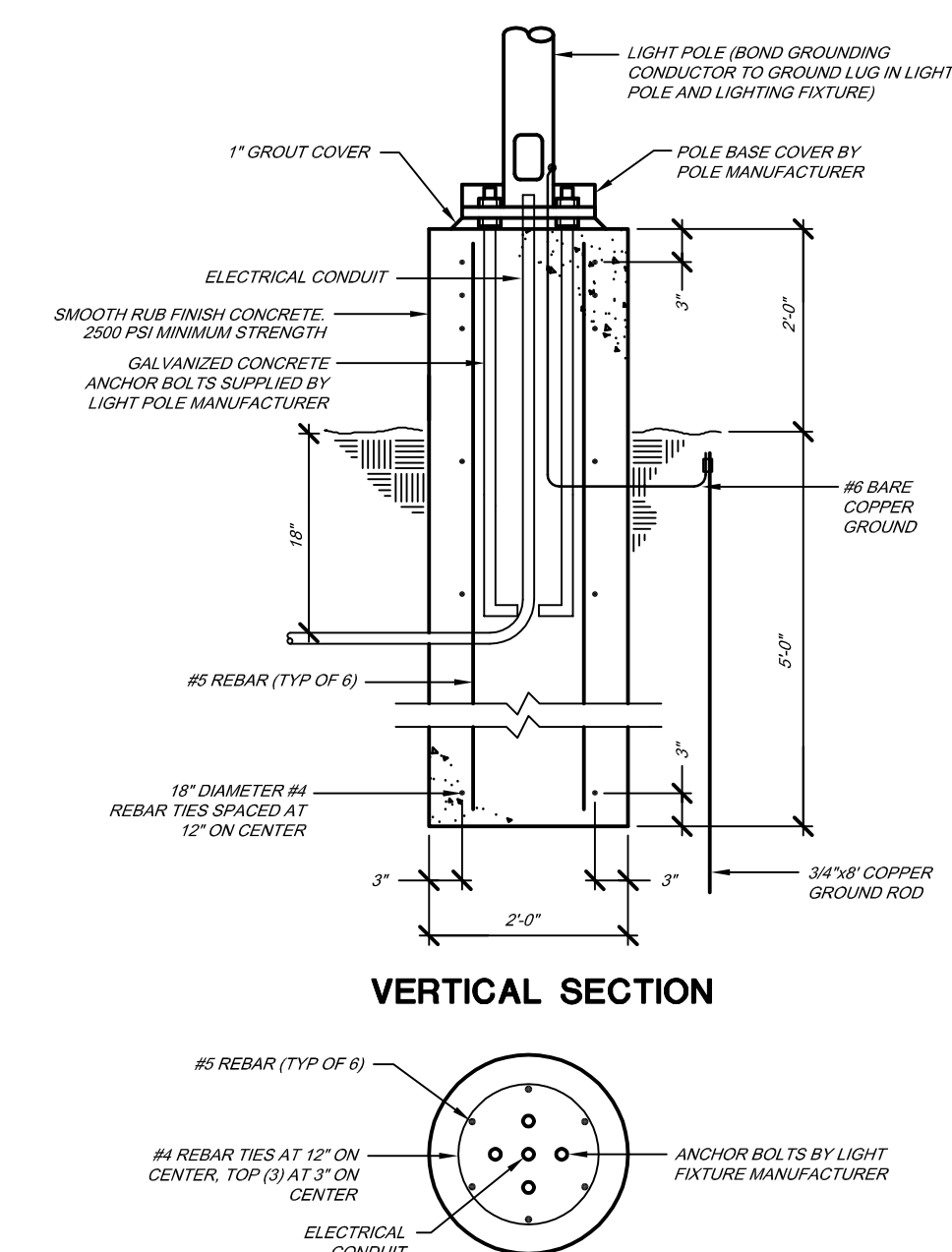
SHEET TITLE:

**SITE LIGHTING  
PLAN  
(ALTERNATE NO. 2)**

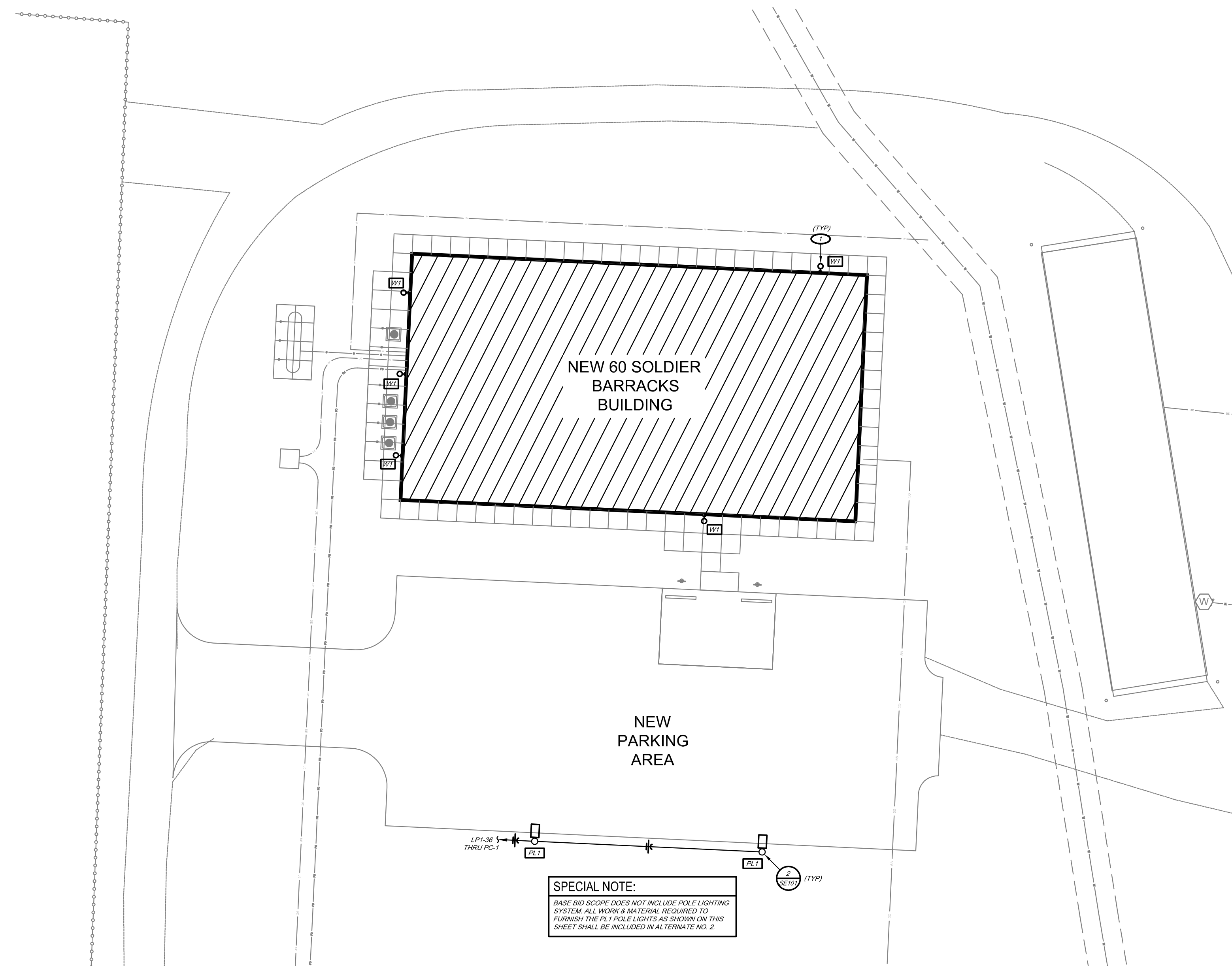
SHEET NUMBER:

**SE-101**

28 OF 36 SHEETS  
07/29/2022



**2 LIGHT POLE CONCRETE BASE**  
NO SCALE



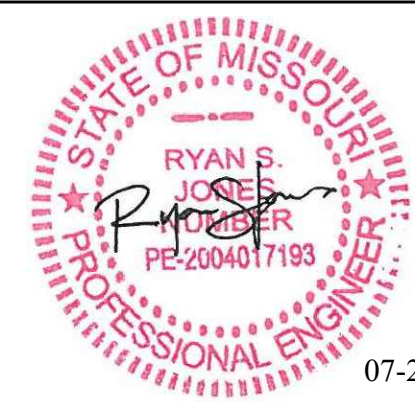
**1 SITE LIGHTING PLAN**  
1" = 20'-0"  
NORTH



**KEYNOTES:**

- (1) 4" WASTE UP TO FINISH GRADE CLEANOUT.
- (2) SERVICES SHALL BE INSTALLED 5'-0" OUTSIDE BUILDING. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- (3) 2" WASTE UP TO LAVATORY.
- (4) 2" TRAPPED WASTE UP TO SHOWER DRAIN.
- (5) 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- (6) 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- (7) 4" WASTE UP TO FINISHED FLOOR CLEANOUT.
- (8) 1.5" VENT UP.
- (9) 4" WASTE UP TO WATER CLOSET.
- (10) 2" VENT UP.
- (11) 2" WASTE UP TO DRINKING FOUNTAIN.
- (12) 3" TRAPPED WASTE UP TO MOP SINK.
- (13) 6" FIRE SERVICE AND 2.5" DOMESTIC WATER SERVICE PIPING UP.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



RYAN S. JONES - ENGINEER  
PE-2004017193  
PROFESSIONAL SEAL

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WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-P-101  
DRAWN BY: TKB  
CHECKED BY: RSJ  
DESIGNED BY: TKB

SHEET TITLE:  
**UNDERFLOOR  
PLUMBING PLAN  
(ALTERNATE NO.1)**

SHEET NUMBER:

**P-101**

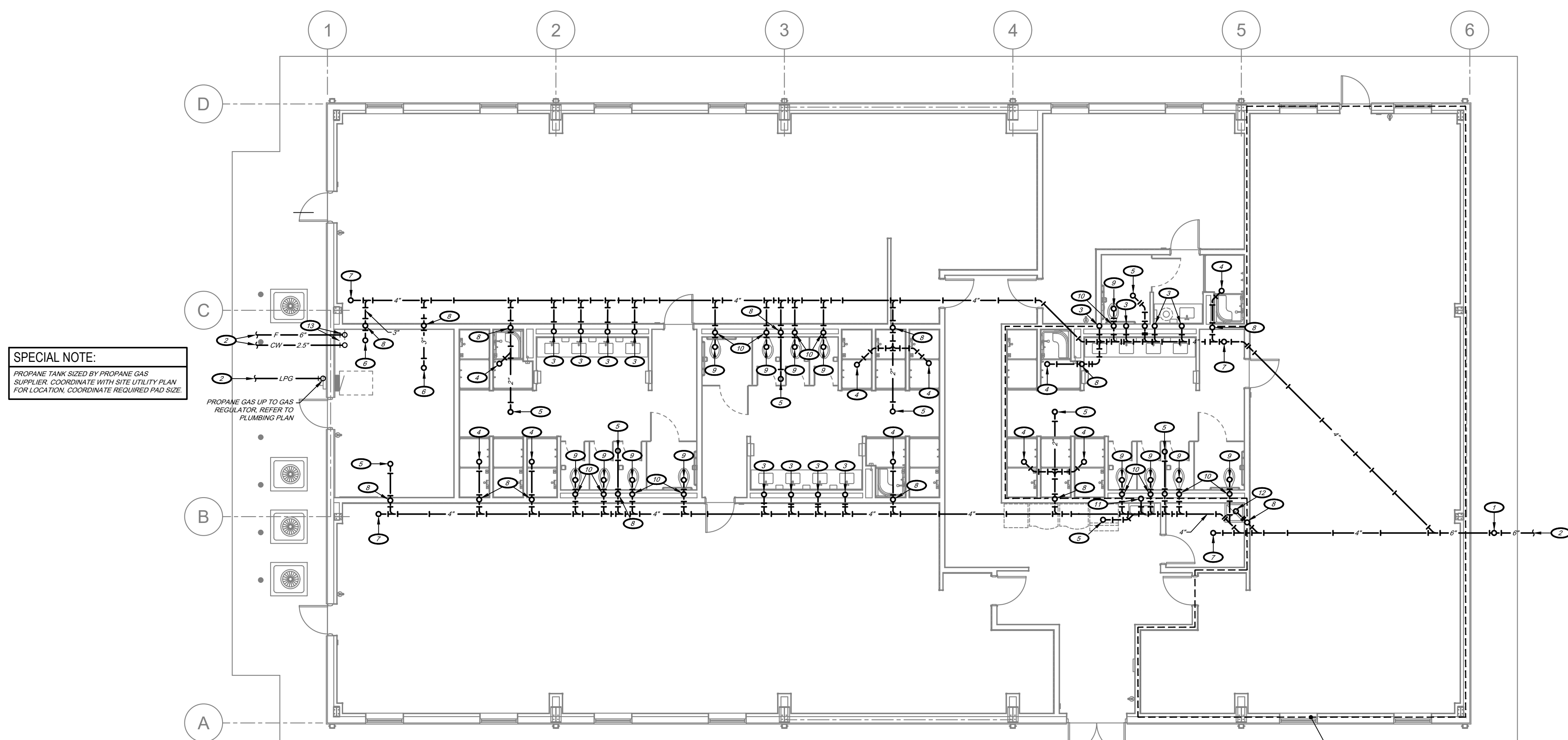
29 OF 36 SHEETS  
07/29/2022

**PLUMBING GENERAL NOTES:**

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
3. PIPING LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, DUCTWORK, LIGHT FIXTURES, CONDUITS, ETC.
4. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED. IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
5. COORDINATE WITH ALL CONTRACTORS TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
6. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. PROVIDE ADAPTER AND FITTINGS FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIER. REFER TO EQUIPMENT TEMPLATES / DRAWINGS FOR ADDITIONAL INFORMATION.
7. ALL MATERIALS IN FLEUMS SHALL BE NON COMBUSTIBLE FLEUM RATED.
8. ROOF CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF PENETRATIONS AND FLASHING REQUIREMENTS TO MAINTAIN ROOF INTEGRITY. COORDINATE CLOSELY WITH ROOF CONTRACTOR ALL ROOF REQUIREMENTS.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE CONSTRUCTION DOCUMENTS AS A WHOLE AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE DOCUMENTS AND SHOULD BE REVIEWED WITH THE SPECIFIC MEP AND STRUCTURAL DRAWINGS FOR EACH WALL SCORE OF WORK.
10. SEAL AROUND ALL FIRE RATED WALLS WITH FIRE STOPPING/CALKING TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.
11. PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT, ETC.
12. ALL EXPOSED PIPING, SUPPORTS, ETC. SHALL BE PRIMED AND PAINTED PER THE SPECIFICATIONS.

**PLUMBING SYMBOLS:**

	SANITARY WASTE PIPING BELOW SLAB
	SANITARY WASTE PIPING ABOVE SLAB
	SANITARY COMBINATION WASTE AND VENT PIPING
	PRIMARY ROOF DRAIN PIPING BELOW SLAB
	PRIMARY ROOF DRAIN PIPING ABOVE SLAB
	SECONDARY ROOF DRAIN PIPING ABOVE SLAB
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
	FIRE SPRINKLER PIPING
	PLUMBING VENT PIPING
	CONDENSATE DRAIN PIPING
	PROPANE GAS PIPING
	COMPRESSED AIR
	FUEL OIL
	SHUT-OFF VALVE
	BALANCE VALVE
	UNION
	CHECK VALVE
	SHOCK ABSORBER
	PRESSURE GAUGE
	TEE / ELBOW DOWN WITH VALVE IN VERTICAL PIPE
	FREEZE-PROOF WALL HYDRANT / HOSE BIBB
	BACKFLOW PREVENTER
	PRESSURE REGULATOR
	FLOOR DRAIN
	FINISH GRADE CLEANOUT
	FINISH FLOOR CLEANOUT
	FINISH WALL CLEANOUT



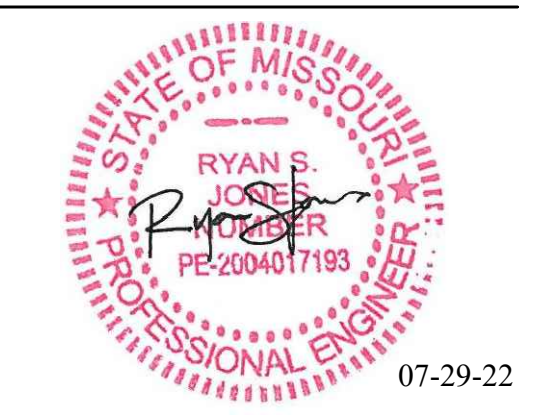
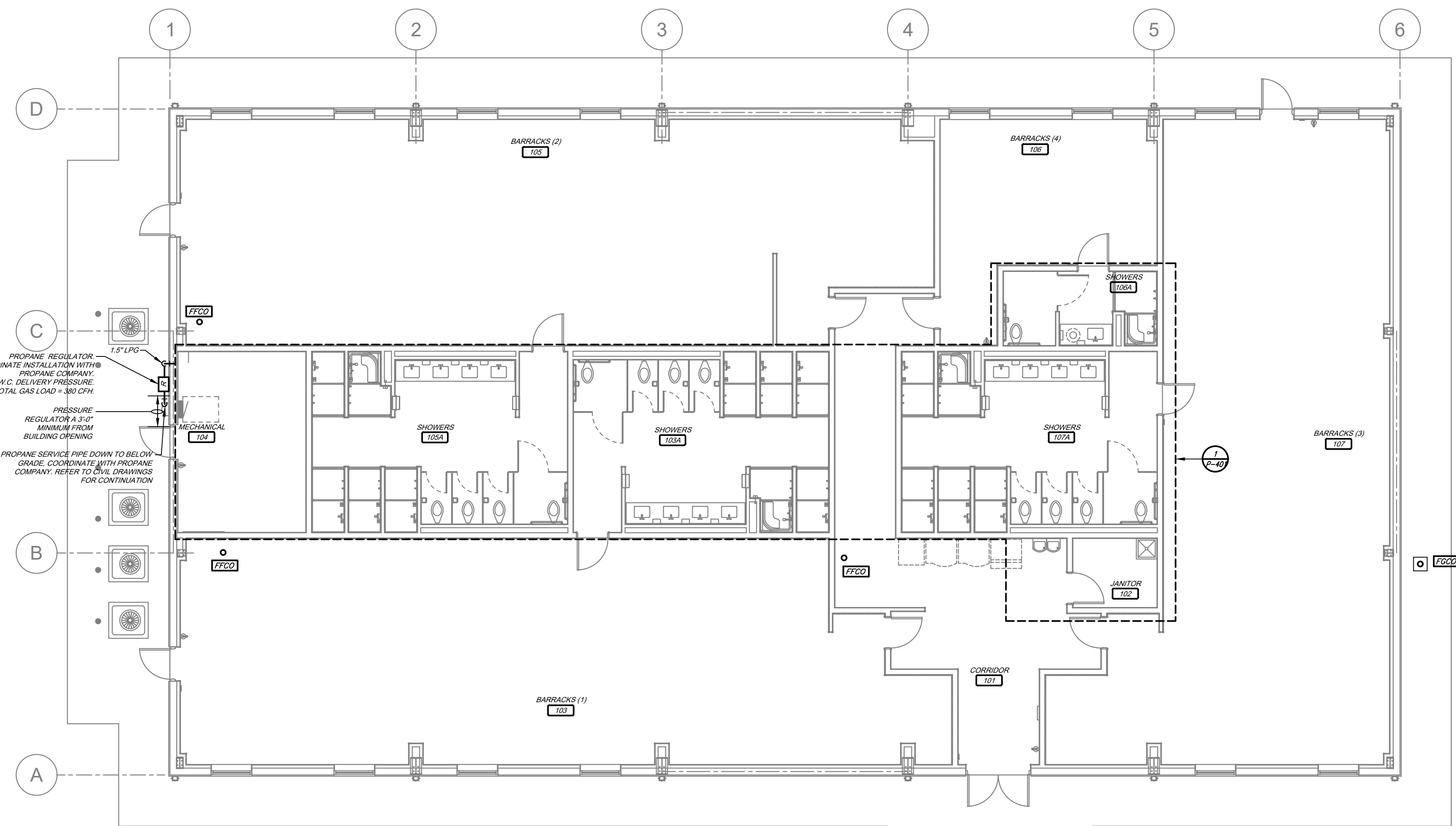
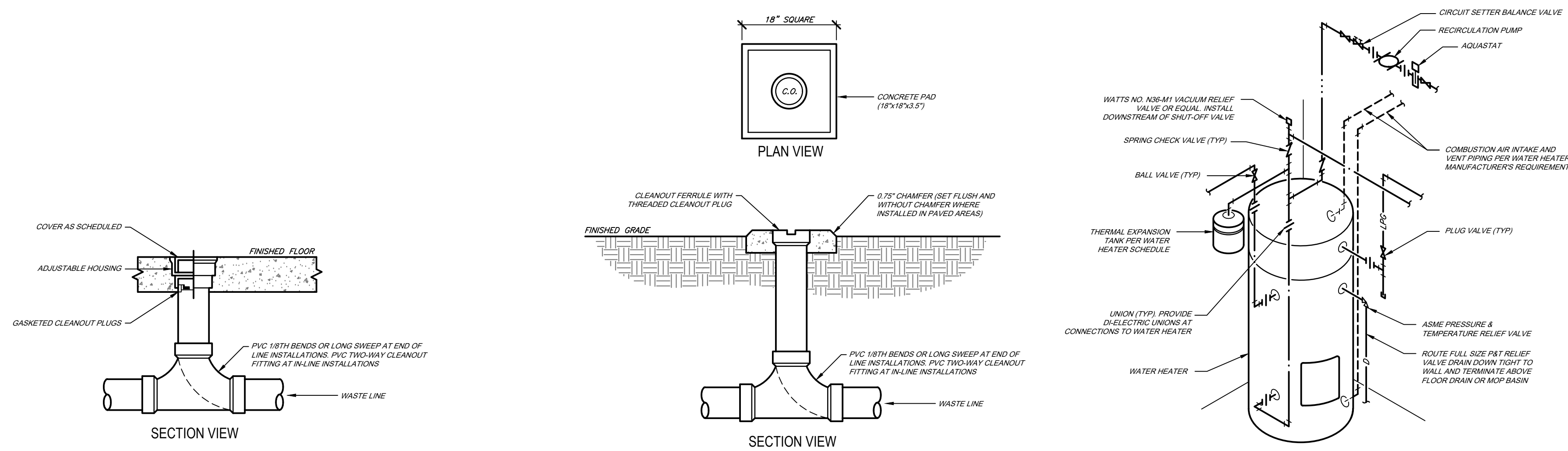
**SPECIAL NOTE:**  
PROPANE TANK SIZED BY PROPANE GAS SUPPLIER. COORDINATE WITH SITE UTILITY PLAN FOR LOCATION. COORDINATE REQUIRED PWD SIZE.

PROPANE GAS UP TO GAS REGULATOR. REFER TO PLUMBING PLAN.

ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO  
PROJECT MANUAL - SECTION 01 23  
00 FOR DESCRIPTION OF WORK.

**1 UNDERFLOOR PLUMBING PLAN**  
1/8" = 1'-0"  
PLAN NORTH





RYAN S. JONES - ENGINEER  
PROFESSIONAL SEAL

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CONSTRUCT NEW  
60 SOLDIER BARRACKS

WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-P-102  
DRAWN BY: TKB  
CHECKED BY: RSJ  
DESIGNED BY: TKB

SHEET TITLE:  
**PLUMBING PLAN**

SHEET NUMBER:  
**P-102**  
30 OF 36 SHEETS  
07/29/2022



SYSTEM	PIPING						FITTINGS		MAXIMUM WORKING		FIELD TEST		NOTES
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (DEG F)	PRESSURE (PSI)	TIME (HOURS)	
CONDENSATE DRAIN ABOVE GRADE	ALL	M	-	-	B88	COPPER	COPPER	DR 1 SJ	10 FT	40-70	10 FT	1	-
DOMESTIC WATER ABOVE GRADE	0.5"-3"	L	-	-	B88	COPPER	COPPER	SJ	120	40-180	150	1	7
DOMESTIC WATER BELOW GRADE	ALL	K	-	-	B88	COPPER	COPPER	SJ	120	40-180	150	1	-
DOMESTIC WATER SERVICE BELOW GRADE	ALL	PVC	-	-	A1181	PVC	CI	MJ	200	50-90	200	2	6
FIRE PROTECTION	ALL	-	-	-	-	-	-	-	-	-	200	2	2
FIRE SPRINKLER SERVICE BELOW GRADE	ALL	-	-	-	-	-	-	-	-	-	200	2	-
PROPANE GAS ABOVE GRADE	0.5" - 2.5"	CW	40	A	A53	CS/BLK	MI	THRD	5	-	150	2	-
REFRIGERANT PIPING	ALL	ACR	-	-	B280	CP	CP	SJ	150	40-180	200	4	-
SANITARY WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR 1 SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE AND VENT - RETURN AIR PLENUMS	ALL	NH	SS	-	A74	CI	CI	DR 1 NH	10 FT	50-180	10 FT	1	3
SANITARY WASTE AND VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR 1 SW	10 FT	50-180	10 FT	1	1.3
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	-	-	B88	COPPER	COPPER	DR 1 SJ	10 FT	40-70	10 FT	1	-

NOTES:  
 1. THE USE OF CELLULAR CORE PVC WASTE AND VENT PIPING IS STRICTLY PROHIBITED.  
 2. THE USE OF CPVC AND POLYETHYLENE PIPING IS STRICTLY PROHIBITED.  
 3. SANITARY WASTE AND VENT PIPING LOCATED WITHIN RETURN AIR PLENUMS SHALL BE CAST IRON OR SHALL BE ENCLOSED IN A GYPSUM BOARD SOFFIT.  
 4. NATURAL GAS PIPING INSTALLED IN RETURN AIR PLENUMS AND CONCEALED SPACES SHALL HAVE APPROVED FITTINGS ONLY. VALVES, UNIONS, THREADED FITTINGS, ETC. ARE NOT PERMITTED.  
 5. NATURAL GAS INSTALLED OUTSIDE SHALL BE PAINTED WITH TWO COATS OF UV RESISTANT ENAMEL PAINT. COLOR TO MATCH WALL COLOR OR EXTERIOR WALL AND YELLOW ON THE ROOF.  
 6. VERIFY PAINT COLOR WITH ARCHITECT BEFORE INSTALLATION.  
 7. PROVIDE PIPING MATERIAL PER LOCAL WATER COMPANY REQUIREMENTS IF DIFFERENT THAN SCHEDULED.  
 8. AT CONTRACTORS OPTION, PER CROSSLINKED POLYETHYLENE TUBING MAY BE USED FOR DOMESTIC WATER ABOVE GROUND PIPING. REFER TO SPECIFICATIONS.

APPROVED PIPE & FITTING MANUFACTURERS:  
 CAST IRON - CHARLOTTE TYLER, CENTRAL FOUNDRY OR PRE-BID APPROVED EQUAL.  
 COPPER - CERRO, CHASE, WUELLER, REVUE, COPPER OR PRE-BID APPROVED EQUAL.  
 PE-X-B - WATTS, VIEGA, OR PRE-BID APPROVED EQUAL.  
 PVC (SOLID) - CHARLOTTE TYLER, CHEMTRON, OR PRE-BID APPROVED EQUAL.  
 CARBON STEEL - ARMOCO, YOUNGSTOWN, UNITED STATES STEEL OR PRE-BID APPROVED EQUAL. GROOVED FITTINGS - VICTAULIC, GRUUVLOK OR PRE-BID APPROVED EQUAL.

ABBREVIATIONS:  
 BS - BELL AND SPIGOT  
 CI - CAST IRON  
 CS - CARBON STEEL  
 CW - CONTINUOUS WELD  
 DI - DUCTILE IRON  
 DR - DRAINAGE FITTING  
 FRP - FIBERGLASS REINFORCED  
 DWV - DRAINAGE WASTE AND VENT  
 HDPE - HIGH DENSITY POLYETHYLENE  
 MJ - MECHANICAL JOINT  
 NG - NEOPRENE GASKET  
 PIRFP - PRE-INSULATED FIBERGLASS REINFORCED PLASTIC  
 RPP-HDPE - RIGID POLYURETHANE INSULATION WITH HDPE JACKET  
 PEK - PEK CROSSLINKED POLYETHYLENE TUBING  
 NH - NO-HUB  
 SJ - 95-5 TIN-ANTIMONY SOLDER JOINT  
 SS - STANDARD STRENGTH / SERVICE WEIGHT  
 SW - SOLVENT WELD  
 TEAH - THERMOSETTING EPOXY ADHESIVE WITH HEAT

PLUMBING PUMP SCHEDULE												
MARK	SERVICE	BASIS OF DESIGN MANUFACTURER	SERIES	SIZE	INLET	DISCH	GPM	HEAD (FT)	NPSH	TYPE	WORKING CLASS	NOTES/ACCESSORIES
HW1	WH1	BELL & GOSSETT	NRF	22	0.75"	0.75"	2	6	-	IL	150	92W 2940 1201 AB WATER 100-140 1.2

GENERAL NOTES:  
 1. PROVIDE TIME CLOCK AND AQUASTAT KIT. INSTALL REMOTE TEMPERATURE SENSOR WHERE HOT WATER RETURN PIPING CONNECTS TO HOT WATER PIPING.  
 2. PROVIDE BALANCE, CHECK AND SERVICE VALVES AT ALL BRANCH PIPING FROM MAIN HOT WATER RECIRCULATION PIPE.

EQUIVALENT MANUFACTURERS:  
 1. GRUNDFOS  
 2. TACO  
 3. WATTS

ABBREVIATIONS:  
 NPSH - NET POSITIVE SUCTION HEAD  
 DHW - DOMESTIC HOT WATER  
 AB - ALL BRONZE  
 AI - ALL IRON  
 AS - AQUASTAT KIT  
 IL - IN-LINE

WATER SOFTENER SCHEDULE												
MARK	BASIS OF DESIGN MANUFACTURER	MODEL NO.	NORMAL FLOW RATE (GPM) @ 15PSI LOSS	MAX FLOW RATE (GPM) @ 25PSI LOSS	BACKWASH FLOW RATE (GPM)	RESIN VOLUME (CU FT)	BACKWASH VOLUME (GALLONS)	DAILY WATER USAGE (GALLONS)	BRINE TANK SALT CAPACITY (LBS)	VOLTAGE/PHASE	ACCESSORIES	
WS1	CULLIGAN	CTM-300-DF	170	95	15	10	541	2,500	1,800	120/1	1.2	

ACCESSORIES:  
 1. BASIS OF DESIGN CULLIGAN CONTACT INFORMATION: MARCUS MONTEZ, (417) 434-0811, mmontez@halswater.com  
 2. INCLUDE PROGRAMMABLE SYSTEM CONTROLLER WITH DIGITAL KEYPAD WITH BATTERY BACKUP.

EQUIVALENT MANUFACTURERS:  
 1. EASY WATER  
 2. FLECK  
 3. ROBERT B HILL

MARK	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	ACCESSORIES	PIPING CONNECTION SIZES				NOTES	EQUIVALENT MANUFACTURERS
					COLD WATER	HOT WATER	WASTE	VENT		
BFP1	BACKFLOW PREVENTER	WATTS	957	STAINLESS STEEL HOUSING, TWO IN LINE INDEPENDENT CHECK VALVES, REPLACEMENT CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS, NON-RISING RESILIENT SEATED GATE VALVES, AIR GAP DRAIN FITTING	2"	-	-	-	-	FEBCO, ZURN
DF1	BILEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	EMABFTLWSSK	ZURN Z1258-B, CARRIER, 1.25" TRAP, SUPPLY AND STOP VALVE, MATCHING ACCESSORY CANE APRON FOR ADA PROTECTION	0.5"	-	2"	1.5"	1.2,3,4,7	HAWS, OASIS
FD1	LIGHT DUTY FLOOR DRAIN	ZURN	FD2210	NICKEL BRONZE GRATE, PROSET TRAPGUARD	-	-	SEE PLAN	SEE PLAN	1	JOSAM, SIOUX CHIEF, SMITH, WATTS
FFCO	FINISH FLOOR CLEANOUT	ZURN	ZN1400	NICKEL BRONZE TOP	-	-	SEE PLAN	-	1	JOSAM, SIOUX CHIEF, SMITH, WATTS
FGCO	FINISH GRADE CLEANOUT	ZURN	ZN1400-HD	HEAVY DUTY TOP	-	-	SEE PLAN	-	1	JOSAM, SIOUX CHIEF, SMITH, WATTS
FWCO	FINISH WALL CLEANOUT	ZURN	Z1446	STAINLESS STEEL COVER	-	-	SEE PLAN	-	1	JOSAM, SIOUX CHIEF, SMITH, WATTS
FPWH	FREEZEPROOF WALL HYDRANT	ZURN	Z1320	1/4 TURN, NON-FREEZE WALL HYDRANT W/ INTEGRAL VACUUM BREAKER LOOSE KEY	0.75"	-	-	-	1	SMITH, WATTS, WOODFORD
HB1	HOSE BIBB	ZURN	Z1341XL-PC	FLOISHED CHROME WALL HOSE BIBB W/ VACUUM BREAKER	0.5"	-	-	-	1	WATTS, WOODFORD, PRIER
IB1	ICE MAKER BOX	GUYT GRAY	MB1H4AB	QUARTER TURN VALVE, WATTS TO DUAL CHECK BACKFLOW PREVENTER, HAMMER ARRESTER, FLEXIBLE SUPPLY	0.5"	-	-	-	-	LSP, OATEY
LV1	LAVATORY, INTERGRAL BOWL REFER TO ARCHITECTURAL DRAWINGS	-	-	AMERICAN STANDARD #7385.004 SINGLE CONTROL FAUCET WITH 0.5 GPM VADAL-RESISTANT AERATOR, WATTS USG-B MIXING VALVE (SET AT 120F), GRID STRAINER, 1.25" TAILPIECE AND TRAP, SUPPLIES AND STOP VALVES	0.5"	0.5"	2"	1.5"	1.2,3,4,5	ZURN, DELTA
MB1	MOP BASIN	FIAT	MSB-2424	830-AA FAUCET WITH INTEGRAL MIXER, WATTS USG-B MIXING VALVE (SET AT 120F), 838-AA HOSE AND BRACKET, 889-CC MOP HANGER, MGS2424 WALL GUARD	0.5"	0.5"	3"	1.5"	1	STERN WILLIAMS, ZURN, PROFLO
SA	SHOCK ABSORBER	ZURN	Z1700	-	SEE PLAN	SEE PLAN	-	-	6	SIOUX CHIEF, SMITH, WATTS
SD1	SHOWER DRAIN	ZURN	Z5880-1	36" LONG FRAME WITH #WG WAVE GRATE, 2" NO-HUB BOTTOM OUTLET.	-	-	2"	1.5"	-	INFINITY, LUXE
SD2	SHOWER DRAIN	ZURN	Z5880-2	90" LONG FRAME WITH (1)-36" L. #WG WAVE GRATE AND (1)-48" L. #WG WAVE GRATE. (1)-2" NO-HUB BOTTOM OUTLETS.	-	-	2"	1.5"	8	INFINITY, LUXE
SD3	SHOWER DRAIN	ZURN	Z5880-2	120" LONG FRAME WITH (2)-36" L. #WG WAVE GRATES. (2)-2" NO-HUB BOTTOM OUTLETS.	-	-	2"	1.5"	8	INFINITY, LUXE
SV1	SHOWER VALVE	SYMMONS	S-9601-P	SHOWER TRIM WITH TEMP/PR PRESSURE BALANCE SHOWER VALVE	0.5"	0.5"	-	-	-	AMERICAN STANDARD, DELTA
SV2	ADA SHOWER VALVE	SYMMONS	9605-PLR	ADA SHOWER TRIM WITH TEMP/PR PRESSURE BALANCE SHOWER VALVE WITH ADA 36" GRAB BAR AND HAND SHOWER, DIVERTOR VALVE	0.5"	0.5"	-	-	-	AMERICAN STANDARD, DELTA
WC1	FLOOR MOUNT FLUSH VALVE WATER CLOSET	ZURN	Z5655-BWL	Z5955S-EL ELONGATED, STANDARD WHITE OPEN FRONT SEAT, SUPPLY & STOP VALVE, ZURN ZER9000-HET AQUA VANTAGE FLUSH VALVE	1.25"	-	4"	2"	6	TOTO, AMERICAN STANDARD
WC2	ADA FLOOR MOUNT FLUSH VALVE WATER CLOSET	ZURN	Z5655-BWL.1	Z5955S-EL ELONGATED, STANDARD WHITE OPEN FRONT SEAT, SUPPLY & STOP VALVE, ZURN ZER9000-HET AQUA VANTAGE FLUSH VALVE	1.25"	-	4"	2"	3.6	TOTO, AMERICAN STANDARD

NOTES:  
 1. ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE.  
 2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.  
 3. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.  
 4. ALL COLORS AND FINISHES SELECTED BY ARCHITECT.  
 5. TRUEBRO ADA LAV SHIELD ON SUPPLIES, WASTE, AND MIXING VALVES.  
 6. PROVIDE SHOCK ABSORBER FOR ALL INDIVIDUAL FIXTURES OR BATTERIES. SIZE UNITS SERVING FIXTURE BATTERIES PER MANUFACTURERS RECOMMENDATIONS.  
 7. PROVIDE RECTANGULAR STEEL TUBE CARRIER AT FRAMED WALLS. WALL HANGERS AT CMU WALLS.  
 8. FRAME TO EXTEND CONTINUOUS UNDER SHOWER SEPARATING WALLS WITH GRATES SEPARATED BETWEEN SHOWER WALLS. REFER TO PLUMBING PLAN. COORDINATE EXACT DIMENSIONS WITH ARCHITECTURAL PLANS. REFER TO UNDERFLOOR PLUMBING PLAN FOR APPROXIMATE LOCATIONS OF DRAIN OUTLET IN FRAME.

WATER HEATER SCHEDULE												
MARK	BASIS OF DESIGN MANUFACTURER	MODEL #	TYPE	GALLON CAPACITY	RECOVERY GPM @ 90F RISE	INPUT BTUH	OUTPUT BTUH	NAFUE	KW	VOLTAGE/PHASE	ACCESSORIES	
WH1	AO SMITH	BTH-500	LPG	119	720	500	475	95%	-	120/1	1,2,3,4,5,6	

ACCESSORIES:  
 1. THERMAL EXPANSION TANK EQUIVALENT TO AMTRON MODEL ST-12.  
 2. DRAIN VALVE WITH THREADED HOSE CONNECTION.  
 3. ASME PRESSURE & TEMPERATURE RELIEF VALVE.  
 4. INCLUDE CONDENSATE NEUTRALIZATION KIT.  
 5. INCLUDE CONCENTRIC VENT TERMINATION KIT.  
 6. WATER HEATER SHALL BE PROPANE MODEL.

EQUIVALENT MANUFACTURERS:  
 1. BRADFORD-WHITE  
 2. LOCHINVAR  
 3. STATE

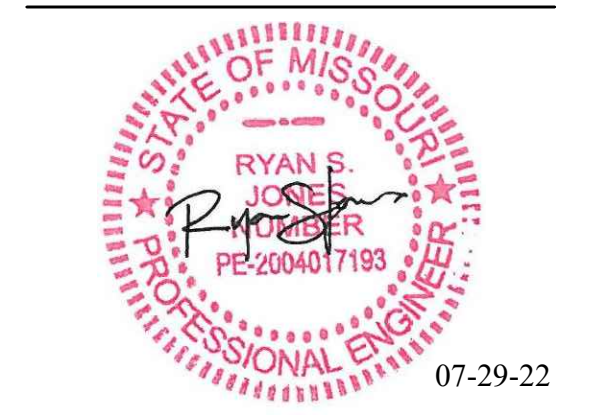
**KEYNOTES:**

- 0.75" PROPANE DOWN TO FURNACE. PROVIDE SHUTOFF VALVE, DIRT LEG AND UNION.
- 0.5" PROPANE DOWN TO FURNACE. PROVIDE SHUTOFF VALVE, DIRT LEG AND UNION.
- 1.25" PROPANE DOWN TO WATER HEATER. PROVIDE SHUTOFF VALVE, DIRT LEG AND UNION.
- 0.5" COLD AND HOT WATER DOWN IN SHOWER VALVE ENCLOSURE TO MIXING VALVE.
- 1.5" VENT DOWN TO UNDER FLOOR.
- 1.5" VENT, 0.5" COLD AND HOT WATER DOWN TO LAVATORY. 2" WASTE DOWN TO UNDER FLOOR. COORDINATE ROUTING OF WASTE PIPE THROUGH THICKENED SLAB UNDER WALL.
- 2" VENT AND 1.25" COLD WATER DOWN TO WATER CLOSET.
- 1.5" VENT, 0.75" COLD AND HOT WATER DOWN IN WALL. 2" WASTE DOWN TO UNDER FLOOR. PROVIDE TEE IN WALL ON WATER PIPING WITH 0.5" COLD AND HOT WATER TO BACK TO BACK LAVATORIES. PROVIDE DOUBLE WYE FITTING IN WASTE PIPING FOR BACK TO BACK LAVATORIES.
- 0.75" COLD WATER DOWN SECURED TO WALL AT APPROXIMATELY 18" ABOVE FLOOR ROUTE THRU EXTERIOR WALL TO WALL HYDRANT.
- 0.5" VENT UP, 3" VENT THRU ROOF.
- 0.5" COLD AND HOT WATER DOWN TO MOP BASIN.
- 1.5" VENT AND 0.5" COLD WATER DOWN TO DRINKING FOUNTAIN.
- 2.5" NORMALLY CLOSED BALL VALVE FOR WATER SOFTENER BYPASS.
- 2" PVC VENT AND 4" COMBUSTION AIR VENT FROM WATER HEATER. ROUTE UP TO 8". PROVIDE VENT TERMINATION KIT. REFER TO WATER HEATER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 0.75" COLD WATER DOWN AND HORIZONTALLY THRU WALL TO HOSE BIBB. LOCATE HOSE BIBB AT APPROXIMATELY 18" ABOVE FINISHED FLOOR.
- CONFIGURE WATER SERVICE PIPING TO MAINTAIN SPACE FOR INSTALLATION OF A POSSIBLE FUTURE WATER METER.
- PROPOSED LOCATION FOR FIRE DEPARTMENT CONNECTION. VERIFY LOCATION WITH LOCAL FIRE DEPARTMENT AUTHORITIES. COORDINATE ROUTING OF PIPING WITH ALL OTHER TRADES.
- 0.5" COLD WATER DOWN IN WALL TO ICE MAKER SUPPLY BOX.

**FIRE SPRINKLER GENERAL NOTES:**

- REFER TO SPECIFICATIONS DIVISION 21 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE DESIGN, MATERIALS, EQUIPMENT, FABRICATION, INSTALLATION, ETC. FOR A WET PIPE FIRE SPRINKLER SYSTEM THROUGHOUT THE ENTIRE BUILDING. ALL PORTIONS OF THE FIRE SPRINKLER SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR/ENGINEER. ANY PIPING SHOWN AT BUILDING OR ON SITE IS FOR REFERENCE ONLY.
- THE FIRE SPRINKLER SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF NFPA 13, STATE AND LOCAL CODES AS ADOPTED BY THE COUNTY OF NEWTON, MISSOURI. ALL FIRE SPRINKLER SYSTEM MATERIALS SHALL BE LISTED. FIRE SPRINKLER SYSTEM CONTRACTOR SHALL ENGINEER AND INSTALL THE FIRE SPRINKLER SYSTEM AS REQUIRED TO PROVIDE PROPER COVERAGE FOR THE AREA OF WORK.
- SECURE ALL FEES, PERMITS, ETC. NECESSARY IN CONNECTION WITH THIS WORK. CONTRACTOR SHALL PAY ALL TAP AND EQUIPMENT FEES.
- THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN FLOW READINGS FOR PURPOSES OF DESIGN.
- SPRINKLER HEADS LOCATED IN GYPSUM AND LAY-IN CEILING AREAS SHALL BE CONCEALED RECESSED HEADS WITH CONVEYERS IN COLOR AS SELECTED BY ARCHITECT. HEADS IN AREAS WITH EXPOSED STRUCTURE SHALL BE BRASS, UPRIGHT HEADS.
- CONTRACTOR SHALL SUBMIT AN ELECTRONIC SET OF SCALED LAYOUT DRAWINGS, CALCULATIONS, AND CUT SHEETS TO ARCHITECT/ENGINEER FOR COORDINATION AND APPROVAL. LAYOUT DRAWINGS SHALL INCLUDE SPRINKLER HEAD AND PIPING LOCATIONS, SERVICE DETAILS, ETC. SUBMIT REQUIRED MATERIALS TO AGENCY HAVING JURISDICTION FOR APPROVAL AND PERMIT.
- FIRE SPRINKLER WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR WITH AT LEAST 3 YEARS OF INSTALLATION EXPERIENCE ON PROJECTS WITH FIRE PROTECTION WORK SIMILAR TO THAT REQUIRED FOR THE PROJECT. THE FIRE SPRINKLER SYSTEM SHALL BE ENGINEERED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI, AND THE DESIGN DRAWINGS AND CALCULATIONS SHALL BEAR HIS/HER MISSOURI SEAL AND SIGNATURE.
- PROVIDE FIRE DEPARTMENT CONNECTIONS IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.
- CENTER SPRINKLER HEADS IN CEILING TILES AND BETWEEN LIGHTING FIXTURES AS APPLICABLE. HEAD PLACEMENT SHALL BE SUBJECT TO ARCHITECTURAL APPROVAL BASED ON AESTHETICS.

STATE OF MISSOURI  
 MICHAEL L. PARSON,  
 GOVERNOR



RYAN S. JONES - ENGINEER  
 PE-2004017193  
 07-29-22  
 PROFESSIONAL SEAL  
 Missouri State Certificate of Authority #2005026903  
 Specialties: Mechanical Engineering, Energy Engineering, and Construction Management. I am an independent contractor and do not represent any company. My services are provided on a contract basis. I am not responsible for any damage, liability or cost resulting directly or indirectly from such changes to the fullest extent of the law.

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DEPARTMENT OF  
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CONSTRUCT NEW  
 60 SOLDIER BARRACKS

WAPPAPPELO  
 TRAINING SITE  
 461 COUNTY ROAD 517  
 WAPPAPPELO, MISSOURI

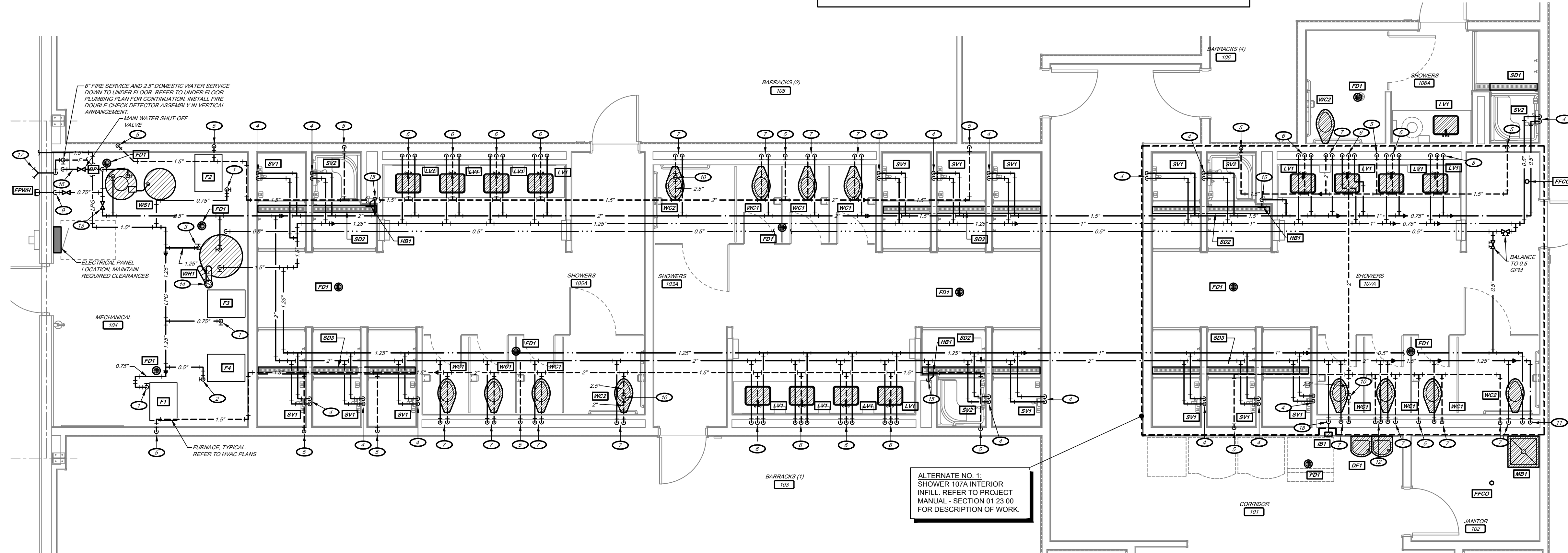
PROJECT # T2124-01  
 SITE # 6325  
 ASSET # 8136325016  
 BUILDING # 3

REVISION:  
 DATE:  
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 ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-P-401  
 DRAWN BY: TKB  
 CHECKED BY: RSJ  
 DESIGNED BY: TKB

SHEET TITLE:  
 ENLARGED  
 PLUMBING PLAN  
 AND SCHEDULES  
 (ALTERNATE NO.1)

SHEET NUMBER:  
**P-401**  
 31 OF 36 SHEETS  
 07/29/2022



**1 ENLARGED PLUMBING PLAN**  
 1/4" = 1'-0"  
 PLAN NORTH

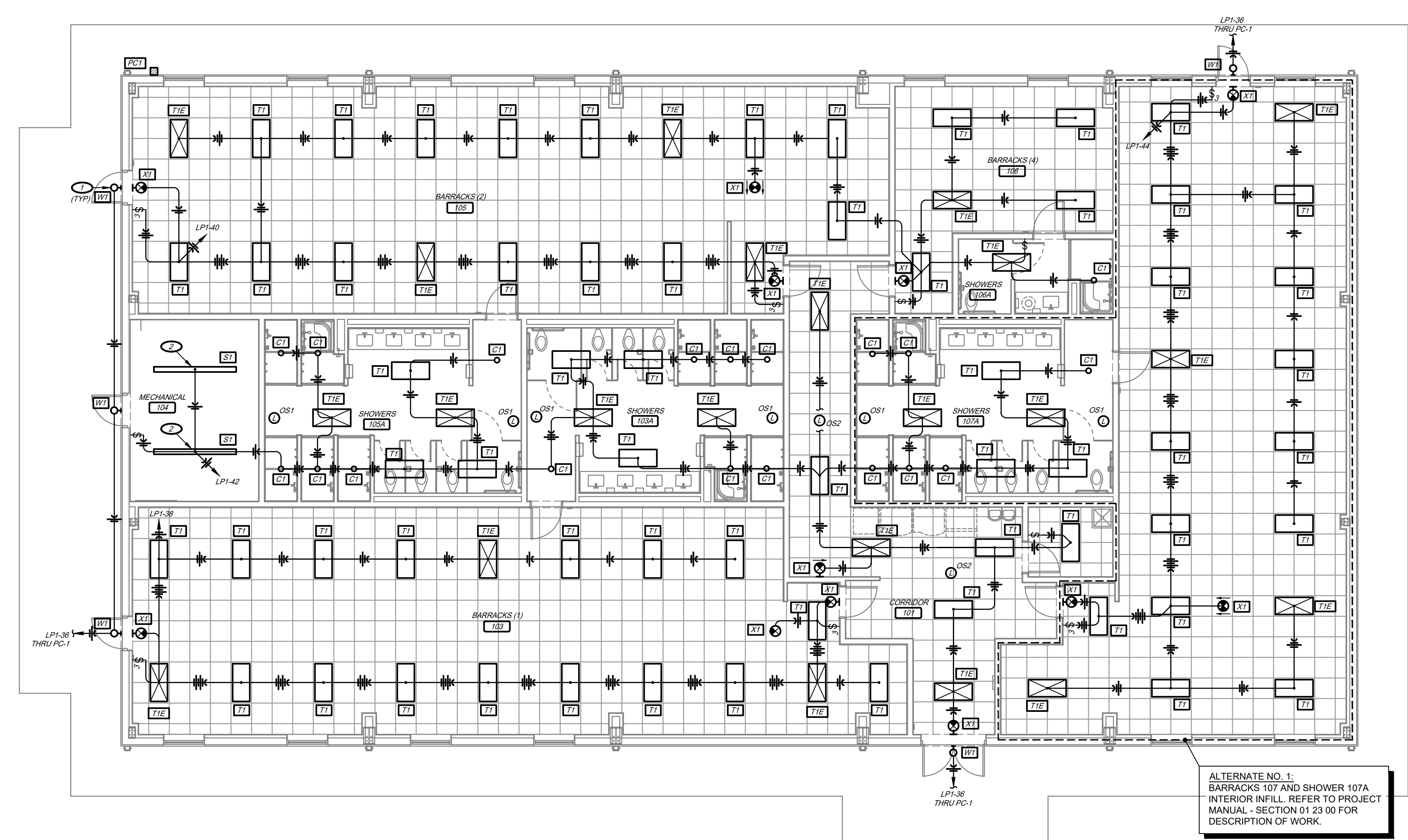






**KEYNOTES:**

- ⊖ WALL PACK SHALL BE INSTALLED AT APPROXIMATELY 9'-0"
- ⊖ FIELD COORDINATE EXACT LOCATION AND MOUNTING OF LIGHTING FIXTURE TO AVOID CONFLICT WITH DUCTWORK IN MECHANICAL ROOM



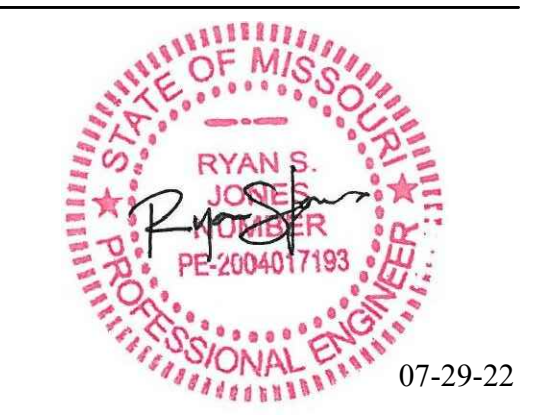
ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO PROJECT  
MANUAL - SECTION 01 23 00 FOR  
DESCRIPTION OF WORK.

**1 LIGHTING PLAN**  
1/8" = 1'-0"  
**PLAN NORTH**

**LIGHTING SYMBOLS:**

- EXIT LIGHT; WALL MOUNTED / CEILING MOUNTED
- EMERGENCY LIGHT
- EXT-EMERGENCY LIGHT
- FLUORESCENT OR LED LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- LIGHT SWITCH
- 3-WAY LIGHT SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR
- LIGHTING & POWER PANELBOARD
- CONDUIT CONCEALED IN CEILING OR WALL
- CONDUIT BELOW GRADE
- HOME RUN; TICK MARKS INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
- GROUND WIRE
- FEEDER PER SCHEDULE

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



RYAN S. JONES - ENGINEER  
PROFESSIONAL SEAL

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WAPPAPELLO  
TRAINING SITE  
461 COUNTY ROAD 517  
WAPPAPELLO, MISSOURI

PROJECT # T2124-01  
SITE # 6325  
ASSET # 8136325016  
BUILDING # 3

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DATE: \_\_\_\_\_  
ISSUE DATE: 07/29/2022

CAD DWG FILE: T2124-01-6325-8136325016-E-101  
DRAWN BY: TJG  
CHECKED BY: RSJ  
DESIGNED BY: TJG

SHEET TITLE:  
**LIGHTING PLAN  
(ALTERNATE NO. 1)**

SHEET NUMBER:

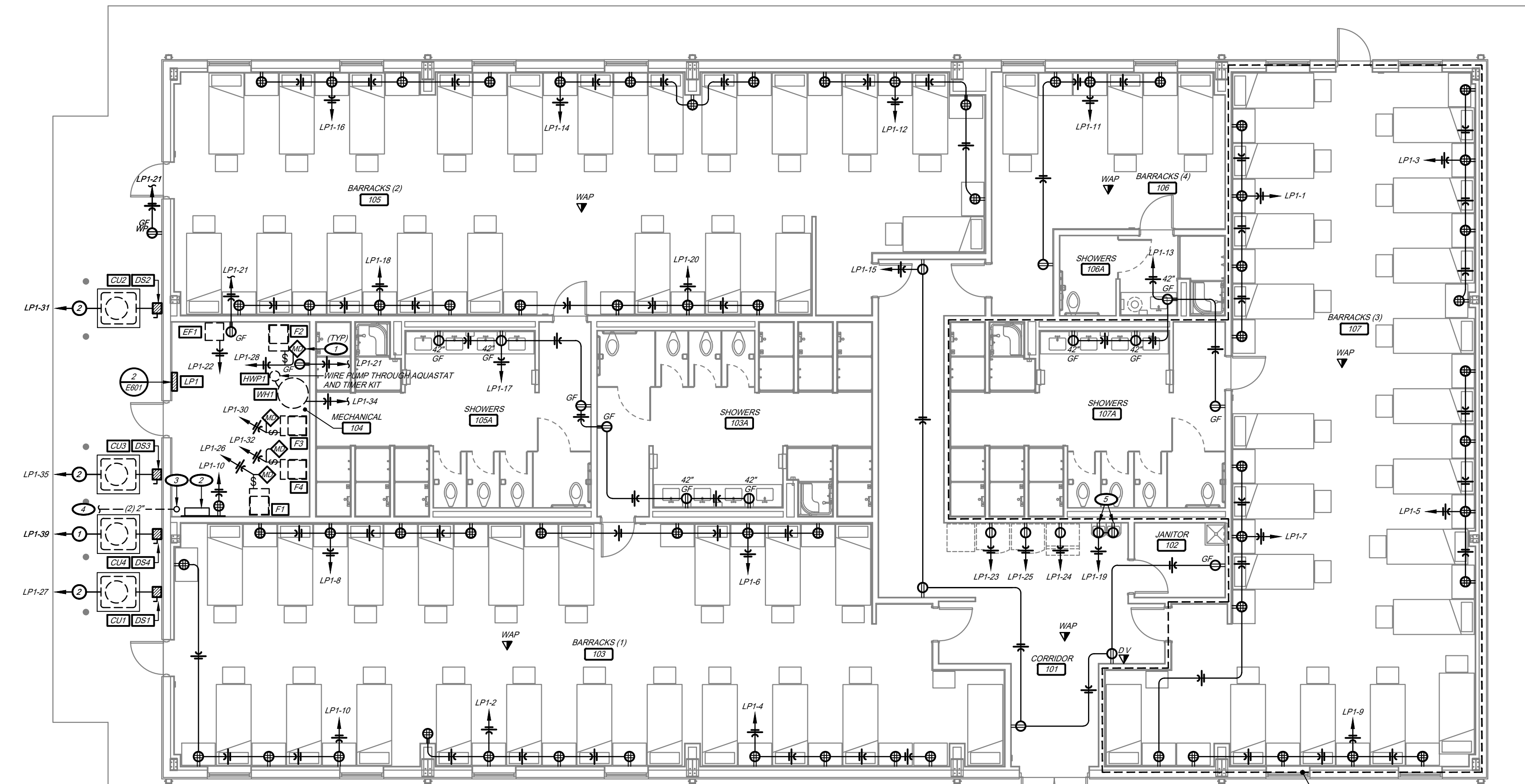
**E-101**

33 OF 36 SHEETS  
07/29/2022



**KEYNOTES:**

- PROVIDE POWER TO MOTORIZED DAMPERS. FIELD COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- LOW-VOLTAGE PATCH PANEL AND ENCLOSURE INSTALLED ON PHONE BOARD.
- (2) 2" COMMUNICATIONS CONDUIT STUBBED UP TO PHONE BOARD.
- REFER TO CIVIL PLANS FOR CONTINUATION.
- INSTALL RECEPTACLES CONCEALED BEHIND DRINKING FOUNTAIN ENCLOSURE PER MANUFACTURER'S INSTRUCTIONS.



ALTERNATE NO. 1:  
BARRACKS 107 AND SHOWER 107A  
INTERIOR INFILL. REFER TO PROJECT  
MANUAL - SECTION 01 23 00 FOR  
DESCRIPTION OF WORK.

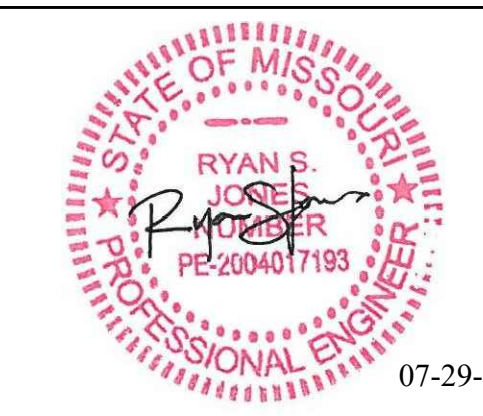
**1 POWER PLAN**  
1/8" = 1'-0"  
PLAN NORTH

**CONDUIT & CONDUCTOR SCHEDULE:**

- (2) #10 AND (1) #10 GROUND IN 1/2" CONDUIT.
- (2) #8 AND (1) #10 GROUND IN 3/4" CONDUIT.

**ELECTRICAL SYMBOLS:**

- SIMPLEX RECEPTACLE: 2P, 3W, 15A OR 20A, 125V
- 14-30 SIMPLEX RECEPTACLE, NEMA CONFIGURATION AS INDICATED
- DUPLEX RECEPTACLE: 2P, 3W, 15A OR 20A, 125V
- 42" DUPLEX RECEPTACLE: MOUNTED @ 42" ABOVE FINISHED FLOOR
- AC DUPLEX RECEPTACLE: MOUNTED 6" ABOVE COUNTERTOP BACKSPASH
- C DUPLEX RECEPTACLE: INSTALLED FLUSH WITH CEILING
- GF DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER
- WP DUPLEX RECEPTACLE: WEATHERPROOF
- HP DOUBLE DUPLEX RECEPTACLE WITH COMMON FACEPLATE
- RECEPTACLE MOUNTED IN FLUSH FLOOR BOX. REFER TO SPECIFICATIONS
- D COMBINATION VOICE & DATA TELECOMMUNICATIONS OUTLET. ROUGH-IN JUNCTION BOX OR PLASTER RING, (1) CAT5 VOICE CABLE & (1) CAT5 DATA CABLE ROUTED TO PATCH PANEL, COVER PLATE & JACK
- WAP DATA TELECOMMUNICATIONS OUTLET INSTALLED FLUSH WITH CEILING. ROUGH-IN JUNCTION BOX OR PLASTER RING, (1) CAT5 VOICE CABLE & (1) CAT5 DATA CABLE ROUTED TO PATCH PANEL, COVER PLATE & JACK
- TV CABLE TV OUTLET. ROUGH-IN JUNCTION BOX OR PLASTER RING ONLY. CABLE COVER PLATE & JACKS PROVIDED BY OTHERS.
- JUNCTION BOX
- LIGHTING & POWER PANELBOARD
- CONDUIT CONCEALED IN CEILING OR WALL
- CONDUIT BELOW GRADE
- HOME RUN: TICK MARKS INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
- GROUND WIRE
- FEEDER PER SCHEDULE
- DISCONNECT SWITCH



RYAN S. JONES - ENGINEER  
PROFESSIONAL SEAL

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CAD DWG FILE: T2124-01-6325-8136325016-E-102  
DRAWN BY: TJG  
CHECKED BY: RJS  
DESIGNED BY: TJG

SHEET TITLE:  
**POWER PLAN**  
**(ALTERNATE NO. 1)**

SHEET NUMBER:  
**E-102**  
34 OF 36 SHEETS  
07/29/2022







