



December 23, 2022

Lee's Summit Missouri
Development Services
220 SE Green St.
Lee's Summit, MO 64063

Re: Fire Station #5 Plan Review Conditions from 12/07/2022

Building Plan Review

Reviewed By: Joe Frogge

Rejected

2. 2018 IBC 1704.2 Special inspections. Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more approved agencies to perform inspections during construction on the types of work listed under Section 1705. These inspections are in addition to the inspections identified in Lee's Summit Code of Ordinances Chapter 7. (See code section for exceptions)

Action required: Provide statement of special inspections / letter of responsibility from company contracted to perform special inspections.

Response: The City of Lee's Summit is close to obtaining a Letter of Intent from a Special Inspections firm Geotechnology per Rodney Hudson, City of Lee's Summit.

6. ICC/NSSA 500 Standard for the Design and Construction of Storm Shelters – 106.1.1 Peer review. A peer review by an independent registered design professional for compliance with the requirements of Chapters 3, 5, 6, and 7 shall be conducted for the following shelter types.

1. Community shelters with occupant load greater than 50.
2. Storm shelters in elementary schools, secondary schools, and day care facilities with an occupant load greater than 16.
3. Storm shelter in Risk Category IV (essential facilities) as defined in Table 1604.5 in the International Building code.

Action required: Provide 3rd Party peer review for storm shelter.
12/5/22 - Provide verification the items in report have been resolved.

Response: See attached "FS5_Storm Shelter Review_GLMV response"

7. 2018 IBC 706.1 General. Fire walls shall be constructed in accordance with Section 706.2 through 706.11. The extent and location of such fire walls shall provide a complete separation. Where a fire wall also separates occupancies that are required to be separated by a fire barrier wall, the most restrictive requirements of each separation shall apply.

Action required: Provide complete UL details that include nail/screw patterns.
12/5/22 - Complete detail for UL 419 required

Responses: 12/23/2022 UL details, including fastener patterns for track, framing and sheathing are shown on sheet A-602 (see attached drawing sheet)



Stand Structural Engineering Inc
8234 Robinson St.
Overland Park, KS 66204

Date: 11/03/2022

Paul Michell
GLMV Architecture
9229 Ward Parkway Blvd
Suite 210
Kansas City, MO 64114

Reference: Lee's Summit Fire Station 4 Storm Shelter Peer Review

Dear Mr. Michell,

As requested, we have conducted a peer review of the storm shelter portion of the above referenced project to determine conformity to the 2020 ICC 500. Our review is based on the signed and sealed drawings dated October 19, 2022. Based on the drawings provided, the storm shelter appears to be approximately 17' by 45' and located on the first floor of the new fire station. The shelter is constructed with masonry walls and cast in place concrete roof supported on shallow foundations and the adjacent floor structure is attached to the shelter roof.

For the purpose of this report, any references to "EOR" pertain to the overall structural engineer of record for the project (Leigh and O'Kane), and any references to "AOR" pertain to the architect of record (GLMV Architecture, Inc).

Construction Documents Comments:

We reviewed the construction documents to verify the required design information and correct structural design criteria per Chapters 1 (Sections 106, 107, 110 and 111) and 3 are shown and suggest the following modifications:

1. Section 106.2.1.13 – A floor plan specifically locating the storm shelter on the Architectural and Structural drawings is required. A blow up has been provided on G-004, but it is not called out on the overall floor plans.
Response: **Sheet A-101 has been revised to show the area of the Storm Shelter. See attached revised sheet.**
2. Section 106.2.1.18 – Venting area is required to be listed. Architectural sheet G-004 indicates it is per the MEP drawings, but we are not able to find it on the MEP drawings. We recommend either the Mechanical Engineer or AOR list the venting requirements associated with Section 702.4. All venting penetrations need to be coordinated with the EOR.
Response: **On sheet M101 there is a supply fan (SF-1) that is mounted within the storm shelter to provide mechanical ventilation fresh air to the shelter during emergency operation. The airflow is 250cfm which is enough air for 50 people if using the 5 cfm/person air value listed in Section 702.4.**
3. Section 111.1 – Structural observations shall be provided during construction of the shelter by a registered professional. This requirement needs to be listed in the construction documents.
Response: **18.C. "STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE SHELTER BY A REGISTERED PROFESSIONAL." Has been added to sheet S-001 in ASI 01 issues 11/16/2022. See attached ASI 01.**

Sheet S-302

1. Sections A1 and C6 indicate a connection to the storm shelter with an edge angle and post installed anchors. The embedment length for the anchor was not provided so the connection strength could

not be reviewed. The EOR should verify that the storm shelter has been designed for a force which equals the ultimate failure strength of the connection, or the element being connected, whichever is less, per Section 304.9.

Response: Connection embed added to sheet S-302 in addendum ASI 01 issued 11/16/2022 and supplemental calculations added to calculation package. See attached ASI 01.

Sheet S-303

1. Sections A4 shows the storm shelter slab cantilevered over an inset drinking fountain. A calculation was not found for this unique condition. The EOR should verify that the storm shelter slab has been designed for the cantilever loads combined with the connection loads per Section 304.9.

Response: Reinforcement in the slab is uniform and the moments in the ~ 5'-0" x 2'-0" area do not control the slab design. This condition was analyzed in our design software.

Sheet S-307

1. Section C2 indicates the requirements for louver opening protection in the shelter lid. The section shows the #4 bars to be spaced at 2 3/4" on center. Considering the rebar diameter, the clear area is 2 1/4" x 2 1/4" with an area of 5.06 square inches. However, per section 306.6, the maximum area must not exceed 3 1/2" square inches. We recommend decreasing the spacing to 2 1/4" on center each way.

Response: Spacing changed to 2 1/4" on detail C2 sheet S-307 in ASI 001 issued 11/16/2022. See attached ASI 01

Sheet M101

1. The HVAC plan shows a 4" diameter dryer vent extending through the storm shelter roof. It is unclear how this is possible considering the missile protection detail C2/S-307. We recommend the EOR and AOR coordinate the penetration requirements for the dryer vent.

Response: Per revised coded note 15 on sheet M-101 in ASI-01 issued 11/16 we added a metal shroud to the dryer penetration since the dryer duct cannot have any obstructions in it per the IMC. Refer to attached sheet M101 plan note #15 PROVIDE CYCLONE, OR EQUAL, CWVSO 10X11X10 SHROUD AROUND DRYER DUCT PENETRATION.

Calculation Comments:

Structural calculations were provided by Leigh and O'Kane, dated 10.19.22. We provide the following comments:

1. On page 3 of 799, a statement has been included regarding connection to the storm shelter and that the main structure is considered independent from the shelter. However, per the drawing sections, the floor structure is connected to the storm shelter. We recommend revising the sentence to indicate the floor attachment.

Response: **Noted**

2. On page 11 of 799, the Kd factor is listed as 0.85. ICC 500 Section 304.3 requires a factor of 1.0 for determining the wind loads. We recommend the EOR confirm that the correct coefficient was used in the MFWRS pressure calculations, and the shelter has been designed for the correct wind forces.

Response: Kd is 1.0 for our analysis model. Ref. Page 108.

3. On pages 11 and 16 of 799, the internal pressure coefficients are listed as +/- 0.18 in the general wind load requirements. The subsequent load case tables show the coefficients as +/- 0.55 that are listed on the drawings. We recommend the EOR confirm that the correct coefficients were used in the pressure calculations, and the shelter has been designed for the correct wind forces.

Response: This is an output error with the software. GCPI was entered as +/- 0.55. This is shown on page 11. GCPI can also be seen in the TSD output. GCPI does not show on components and cladding calculation but has been considered. See screen shot below:



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| | | |
|------------------------------|------------------|---------------|
| Made by: JMB | Date: 10/17/2022 | Job No. 21-18 |
| Revision: | Date: | Sheet No. 9 |
| Project Name: FIRE STATION 4 | | |



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| Made by: JMB | Date: 10/17/2022 | Job No. 21-18 |
| Revision: | Date: | Sheet No. 110 |
| Project Name: FIRE STATION 4 | | |

General wind load requirements

Basic wind speed $V = 250.0$ mph
Risk category IV
Velocity pressure exponent coef (Table 26.6-1) $K_z = 0.85$
Ground elevation above sea level $Z_g = 0$ ft
Ground elevation factor $K_g = \exp(-0.000362 \times Z_g/1ft) = 1.00$
Exposure category (cl.26.7.3) C
Enclosure classification (cl.26.12) Enclosed buildings
Internal pressure coef +ve (Table 26.13-1) $GC_{pi,0} = 0.18$
Internal pressure coef -ve (Table 26.13-1) $GC_{pi,-1} = -0.18$
Gust effect factor $G_f = 0.85$
Minimum design wind loading (cl.27.4.7) $p_{min,z} = 8$ lb/ft²
Topography
Topography factor not significant $K_{zt} = 1.0$
Velocity pressure equation $q = 0.00256 \times K_z \times K_{gt} \times K_{zt} \times V^2 \times 1 \text{ psf/mph}^2$

Velocity pressures table

| z (ft) | K_z (Table 26.10-1) | q_z (psf) |
|--------|-----------------------|-------------|
| 13.00 | 0.85 | 115.60 |

Peak velocity pressure for internal pressure

Peak velocity pressure - internal (as roof press.) $q_i = 115.60$ psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$
Net force $F_w = p \times A_{net}$

Roof load case 1 - Wind 0, $GC_{pi} 0.55, -C_{pe}$

| Zone | Ref. height (ft) | Ext pressure coefficient C_{pe} | Peak velocity pressure q_z (psf) | Net pressure p (psf) | Area A_{net} (ft ²) | Net force F_w (kips) |
|---------|------------------|-----------------------------------|------------------------------------|------------------------|-----------------------------------|------------------------|
| A (-ve) | 13.00 | -1.02 | 115.60 | -163.48 | 292.50 | -47.82 |
| B (-ve) | 13.00 | -0.81 | 115.60 | -143.28 | 292.50 | -41.91 |
| C (-ve) | 13.00 | -0.59 | 115.60 | -121.44 | 225.00 | -27.32 |

Total vertical net force $F_{w,v} = -117.05$ kips

Total horizontal net force $F_{w,h} = 0.00$ kips

Walls load case 1 - Wind 0, $GC_{pi} 0.55, -C_{pe}$

| Zone | Ref. height (ft) | Ext pressure coefficient C_{pe} | Peak velocity pressure q_z (psf) | Net pressure p (psf) | Area A_{net} (ft ²) | Net force F_w (kips) |
|------|------------------|-----------------------------------|------------------------------------|------------------------|-----------------------------------|------------------------|
| A | 13.00 | 0.80 | 115.60 | 15.03 | 585.00 | 8.79 |
| B | 13.00 | -0.50 | 115.60 | -112.71 | 585.00 | -65.94 |
| C | 13.00 | -0.70 | 115.60 | -132.36 | 234.00 | -30.97 |
| D | 13.00 | -0.70 | 115.60 | -132.36 | 234.00 | -30.97 |

| Reference | Zone | Design Pressure (psf) | Area (ft ²) | Applied Load (kip) |
|-----------|-------|-----------------------|-------------------------|--------------------|
| W1 52 | Zero | 0.0 | 26 | 0.0 |
| W1 | W1 | -14.4 | 500 | -27.2 |
| W1 50 | Zero | 0.0 | 12 | 0.0 |
| W1 53 | W1 53 | 0.9 | 223 | 2.2 |
| W1 49 | Zero | 0.0 | 23 | 0.0 |
| W1 51 | W1 51 | 0.9 | 406 | 4.0 |
| W1 48 | Zero | 0.0 | 1 | 0.0 |
| W1 53 | W1 53 | 0.9 | 27 | 0.3 |
| W1 47 | Zero | 0.0 | 1 | 0.0 |
| W1 | W1 | -18.7 | 27 | -3.8 |
| W1 46 | Zero | 0.0 | 4 | 0.0 |
| W1 53 | W1 53 | 0.9 | 73 | 0.7 |
| W1 45 | Zero | 0.0 | 6 | 0.0 |
| W1 51 | W1 51 | 0.9 | 114 | 1.1 |
| W1 44 | Zero | 0.0 | 3 | 0.0 |
| W1 | W1 | -14.4 | 66 | -5.0 |
| W1 43 | Zero | 0.0 | 4 | 0.0 |
| W1 | W1 | -18.7 | 68 | -4.9 |
| W1 42 | Zero | 0.0 | 8 | 0.0 |
| W1 | W1 | -18.7 | 136 | -9.1 |

Average Wall Loads

Wind 9
Left 0
Right 0

Lateral Loads by Level

| Level | Total (kip) | Center (ft, in) |
|---------------------|-------------|-----------------|
| St. TOP AB (TOP AB) | 8.0 | -12.4 |
| St. L2 (LEVEL 2) | 8.0 | -12.4 |
| Total | 16.0 | -24.8 |

Total Loads

1
-
0

136 Wind -x/y, $GC_{pi} 0.55, -C_{pe}$

Wall Zone Loads

| Reference | Zone | Design Pressure (psf) | Area (ft ²) | Applied Load (kip) |
|-----------|-------|-----------------------|-------------------------|--------------------|
| W1 52 | Zero | 0.0 | 26 | 0.0 |
| W1 | W1 | -14.4 | 500 | -27.2 |
| W1 50 | Zero | 0.0 | 12 | 0.0 |
| W1 53 | W1 53 | 0.9 | 223 | 2.2 |
| W1 49 | Zero | 0.0 | 23 | 0.0 |
| W1 51 | W1 51 | 0.9 | 406 | 4.0 |
| W1 48 | Zero | 0.0 | 1 | 0.0 |

4. On page 50 of 799, the maximum ultimate slab moment is listed as 12.0 kft/ft. However, based on our calculations, the maximum dead plus live load moment is 17.6 kft/ft. While the slab calculation indicates that the capacity is sufficient for the higher moment, we recommend review of the maximum loading and capacity to confirm sufficiency.

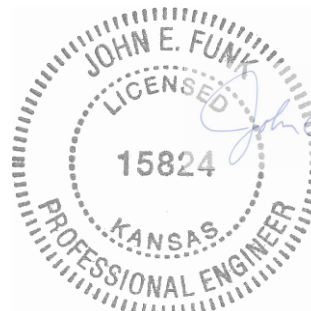
Response: This calculation was a check for a different loading situation. Final slab design was completed in our design & analysis software

This concludes our review of the currently available construction documents for the storm shelter. Based on our review, we recommend acceptance of the storm shelter design pending the modifications listed herein. It must be noted that our limited scope of work does not include an exhaustive review of the entire structural design for the project. The responsibility for the adequacy of the design of the storm shelter and all other structural elements of the project remains with the EOR. Our review consists of structural design items and criteria only, and additional peer reviews should be provided for other disciplines for chapters 4, 5, 6, and 7 of the ICC 500. Please call us if you have any questions or need additional clarification concerning these comments. Should you desire us to continue with a more detailed review or have any questions regarding this report, please let us know.

Sincerely,

John E. Funk

John Funk, PE
Principal



11/03/22

CITY OF LEE'S SUMMIT

FIRE STATION #5

801 MISSOURI HIGHWAY 150

LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

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FIRE STATION #5

CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150

LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

| TERMS AND ABBREVIATIONS | | | | | | | | | |
|-------------------------|--------------|---|-----------|---|----------|---------|--------|-----------------------|----------|
| ABBREVIATION TERM | | CONST CONSULT | | CONSTRUCTION CONSULTANT | | FHC FHP | | FIRE HOSE CABINET | |
| A | A LABEL | CLASS A DOOR | CONT | CONSULTANT | CON | FIN | FIN | FULL HEIGHT PARTITION | FL |
| | A/C | AIR CONDITION(ER) | COORD | COORDINATE | FIN BS | FIN GR | FIN GR | FINISH BOTH SIDES | LVR |
| | A/C UNIT | AIR CONDITIONING UNIT | COV PL | CORRIDOR | FIN FLR | FIN GR | FIN GR | FINISH FLOOR | LW PLAS |
| | A/E | ARCHITECT/ENGINEER | CP | COVER PLATE | FIN WD | FIN GR | FIN GR | FINISH WOOD | LWC |
| | AAP | ALARM ANNUNCIATOR PANEL | CPT | CONTROL PANEL | FIXT | FLR | FLR | FIXTURE | M |
| | AB | ANCHOR BOLT | CRCMF | CARPET | FLG | FLR | FLR | FLOORING | MACH RM |
| | ABBRV | ABBREVIATION | CRT YD | COURTYARD | FLR | FLR | FLR | FLOOR | MATL |
| | ACC | ACCESSIBLE | CS | CASE | FLR FIN | FLR | FLR | FLOOR FINISH | MAX |
| | ACoust INSL | ACOUSTICAL INSULATION | CSG | CASING | FLR PL | FLR | FLR | FLOOR PLATE | MC |
| | ACoust PNL | ACOUSTICAL PANEL | CSI | CONSTRUCTION | FLR SK | FLR | FLR | FLOOR SINK | MD |
| D | ACS DR | ACCESS DOOR | | SPECIFICATIONS INSTITUTE | FN | FLR | FLR | FLOOR FINISH | MECH |
| | ACS FLR | ACCESS FLOOR | | COUNTER SUNK | FOUNT | FLR | FLR | FLOOR FINISH | MECH RM |
| | ACS PNL | ACCESS PANEL | CSMT | CASEMENT | FR | FLR | FLR | FLOOR FINISH | MEMB |
| | ACT | ACOUSTICAL CEILING TILE | CSTL | CASE STEEL | FRMG | FLR | FLR | FLOOR FINISH | MEZZ |
| | ADA | AMERICANS WITH DISABILITIES ACT | CSWK | CASEWORK | FRP | FLR | FLR | FLOOR FINISH | MFR |
| | | ABOVE FINISHED FLOOR | CT | CERAMIC TILE | FRV | FLR | FLR | FLOOR FINISH | MIN |
| | AFF | AGGREGATE | CT STN | CUT STONE | FRST GL | FLR | FLR | FLOOR FINISH | MIRR |
| | AGGR | AUTHORITY HAVING JURISDICTION | CTF | CERAMIC TILE BASE | FRTW | FLR | FLR | FLOOR FINISH | MISC |
| | AHU | AIR HANDLING UNIT | CTG | CERAMIC TILE FLOOR | FT | FLR | FLR | FLOOR FINISH | MLDG |
| | AJA | AMERICAN INSTITUTE OF ARCHITECTS | CTR | COATING | FTG | FLR | FLR | FLOOR FINISH | MLWK |
| ALM | ALM | ALARM | CTRL | CENTER | FURN | FLR | FLR | FLOOR FINISH | MOD |
| | ALT | ALTERNATE | CU FT | CUBIC FEET | FW | FLR | FLR | FLOOR FINISH | MOD BIT |
| | ALT NO | ALTERNATE NUMBER | CU IN | CUBIC INCH | FWC | FLR | FLR | FLOOR FINISH | MOPR |
| | ALUM | ALUMINUM | CU YD | CUBIC YARD | FWRK | FLR | FLR | FLOOR FINISH | MR |
| | ANN | ANNUNCIATOR | CURT | CURTAIN | | FLR | FLR | FLOOR FINISH | MS |
| | ANOD | ANODIZE | | | | FLR | FLR | FLOOR FINISH | MTL |
| | APC | ACOUSTICAL PANEL CEILING | | | | FLR | FLR | FLOOR FINISH | MWB |
| | APPD | APPROVED | | | | FLR | FLR | FLOOR FINISH | |
| | APPROX | APPROXIMATE | | | | FLR | FLR | FLOOR FINISH | |
| | ARCH | ARCHITECT | | | | FLR | FLR | FLOOR FINISH | |
| ASKLR | ASKLR | AUTOMATIC SPRINKLER | DEPT | DEPARTMENT | GFRP | FLR | FLR | FLOOR FINISH | G |
| | ASPH | ASPHALT | DTL | DETAIL | GFRP | FLR | FLR | FLOOR FINISH | GALV |
| | AV | AUDIO VISUAL | DLF | DRINKING FOUNTAIN | GFRP | FLR | FLR | FLOOR FINISH | GALV STL |
| | | | WL MTD DF | WALL MOUNTED DRINKING FOUNTAIN | GFRP | FLR | FLR | FLOOR FINISH | GB |
| | B LABEL | CLASS B DOOR | DIA | DIAMETER | GL | FLR | FLR | FLOOR FINISH | GC |
| | B PL | BASE PLATE | DIM | DIMENSION | GL BLK | FLR | FLR | FLOOR FINISH | GFRG |
| | BAS | BUILDING AUTOMATION SYSTEM | DIST | DISTANCE | GLU LAM | FLR | FLR | FLOOR FINISH | |
| | BB | BASEBOARD | DOC | DOCUMENT | GLZ | FLR | FLR | FLOOR FINISH | GFRG |
| | BC | BOOKCASE | DPDN | DEMOUNTABLE PARTITION | GLZ CMU | FLR | FLR | FLOOR FINISH | |
| | BD | BOARD | DR | DOOR | | FLR | FLR | FLOOR FINISH | |
| BDRY | BDRY | BOUNDARY | DR CL | DOOR CLOSER | GPC | FLR | FLR | FLOOR FINISH | GR |
| | BFF | BUILDING FINISHED FLOOR | DR FR | DOOR FRAME | GR BM | FLR | FLR | FLOOR FINISH | GR FL |
| | BHMA | BUILDING HARDWARE | DR OPNG | DOOR OPENING | GR LN | FLR | FLR | FLOOR FINISH | GR LN |
| | | MANUFACTURER'S ASSOCIATION | DRH | DOOR HOLDER | GSB | FLR | FLR | FLOOR FINISH | GSB |
| | BITUM | BITUMINOUS | DRLV | DOOR LOUVER | GUT | FLR | FLR | FLOOR FINISH | GUT |
| | BLKHD | BULKHEAD | DRST | DOOR STOP | GWT | FLR | FLR | FLOOR FINISH | GWT |
| | BLT IN | BUILT IN | DRSW | DOOR SWITCH | GYM | FLR | FLR | FLOOR FINISH | GYM |
| | BLW CLG | BELOW CEILING | DW | DISHWASHER | GYP | FLR | FLR | FLOOR FINISH | GYP |
| | BN | BULLNOSE | DWG | DRAWING | GYP BD | FLR | FLR | FLOOR FINISH | GYP BD |
| | BRCG | BRACING | | | GYP PLAS | FLR | FLR | FLOOR FINISH | GYP PLAS |
| BRDG | BRDG | BRIDGING | E LABEL | CLASS E DOOR | H | FLR | FLR | FLOOR FINISH | H |
| | BRDG JST | BRIDGING JOIST | EACH | EACH | HB | FLR | FLR | FLOOR FINISH | HCP |
| | BRG | BEARING | EFS | EXTERIOR FINISH SYSTEM | HCW | FLR | FLR | FLOOR FINISH | HCW |
| | BRG PL | BEARING PLATE | EGB | EXTERIOR GYPSUM BOARD | HCWD | FLR | FLR | FLOOR FINISH | HCWD |
| | BRZ | BRONZE | EGSB | EXTERIOR GYPSUM SHEATHING BOARD | HDWL | FLR | FLR | FLOOR FINISH | HDWL |
| | BTWN | BETWEEN | EIFS | EXTERIOR INSULATION AND FINISH SYSTEM | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | BUR | BUILT-UP ROOFING | EJ | EXPANSION JOINT | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | | | EL | ELEVATION | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | | | ELEC | ELECTRICAL | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | | | ELEV | ELEVATOR | HMD | FLR | FLR | FLOOR FINISH | HMD |
| C | C LABEL | CLASS C DOOR | ENR | ENTRANCE | HM | FLR | FLR | FLOOR FINISH | HM |
| | CAB | CABINET | EOS | EDGE OF SLAB | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CAC | CEILING ATTENUATION | EPS | EXPANDED POLYSTYRENE BOARD (INSULATION) | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CLASS | | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CATW | CATWALK | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CBB | CEMENTITIOUS BACKER BOARD | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CEM | CEMENT | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CEM FIN | CEMENT FINISH | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CEM PLAS | CEMENT PLASTER | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| | CEM PLAS CLG | CEMENT PLASTER CEILING | | | HMD | FLR | FLR | FLOOR FINISH | HMD |
| CER | CER | CERAMIC | EQ | EQUIP | I | FLR | FLR | FLOOR FINISH | I |
| | CF | CONTRACTOR FURNISHED/CONTRACTOR INSTALLED | EQ | EQUIP | IBC | FLR | FLR | FLOOR FINISH | IBC |
| | CF/CI | CONTRACTOR FURNISHED/CONTRACTOR INSTALLED | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CF/CI | CONTRACTOR FURNISHED/CONTRACTOR INSTALLED | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CFE | CONTRACTOR FURNISHED EQUIPMENT | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CFLG | COUNTERFLASHING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CFMF | COLD-FORMED METAL FRAMING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CG | CORNER GUARD | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CHFR | CHAMFER | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CIP | CAST-IN-PLACE | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| CIR | CIR | CIRCLE | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CJ | CONTROL JOINT | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CL | CLADDING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLDG | CEILING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLG DIFF | CEILING DIFFUSER | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLG GR | CEILING GRILLE | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLG HT | CEILING HEIGHT | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLG REG | CEILING REGISTER | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLK JT | CAULKED JOINT | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CLR | COLOR | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| CMPSTR | CMPSTR | COMPOSITE | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CMPTR | COMPUTER | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CMU | CONCRETE MASONRY UNIT | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CNR | CORNER | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CNTOR | CONTRACTOR | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CNTR | COUNTER | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CO | COLUMN | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | COL | COMMUNICATION | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | COMM | CONCRETE | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CONC | CONCRETE FLOORING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| CONC FLR | CONC FLR | CONCRETE FLOORING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | CONC OPNG | CONCRETE OPENING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| CONC OPNG | CONC OPNG | CONCRETE OPENING | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |
| | | | EQ | EQUIP | ICC | FLR | FLR | FLOOR FINISH | ICC |

GRAPHIC SYMBOLS LEGEND

FLOOR PLAN REFERENCE INDICATORS

NAME

NO

ROOM TAG

101A

DOOR TAG

101A

REVISION TAG

101A

WINDOW TAG

100'-0"

SPOT ELEVATION TAG

100'-0"

CENTER LINE

100'-0"

EQUIPMENT TAG

100'-0"

NORTH INDICATOR

PLAN NORTH

PROJECT NORTH LINE

TRUE NORTH LINE

COLUMN LINE GRID INDICATOR

GRID IDENTIFICATION

GRID IDENTIFICATION

VIEW NAME

GRAPHIC SCALE

0 4' 8' 16'

DRAWING BLOCK TITLE

VIEW NUMBER

C4

DRAWING BLOCK TITLE

VIEW SCALE

X" = X'-X"

DETAIL/CALLOUT IDENTIFICATION

DETAIL NUMBER

NO

SHEET NUMBER

NO

SHEET NUMBER

EXTERIOR ELEVATION IDENTIFICATION

ELEVATION NAME

ELEVATION

ELEVATION

ELEVATION

BUILDING SECTION IDENTIFICATION

SECTION NUMBER

NO

SHEET NUMBER

NO

SHEET NUMBER

EXTERIOR ELEVATION IDENTIFICATION

ELEVATION NUMBER

NO

SHEET NUMBER

NO

SHEET NUMBER

WALL SECTION IDENTIFICATION

SECTION NUMBER

NO

SHEET NUMBER

NO

SHEET NUMBER

INTERIOR ELEVATION IDENTIFICATION

ELEVATION NUMBER

NO

SHEET NUMBER

NO

SHEET NUMBER

MATERIAL SYMBOLS LEGEND

CONCRETE (CAST-IN-PLACE)

CONCRETE (CAST-IN-PLACE)

PLASTER (GYPSUM OR PORTLAND CEMENT)

PLASTER (GYPSUM OR PORTLAND CEMENT)

GROUT

GROUT

GLASS (ELEVATION)

GLASS (ELEVATION)

BRICK (COMMON/FACE)

BRICK (COMMON/FACE)

EARTHWORK (CRUSHED ROCK GRAVEL)

EARTHWORK (CRUSHED ROCK GRAVEL)

CONCRETE MASONRY UNIT

CONCRETE MASONRY UNIT

EARTHWORK (COMPACTED FILL)

EARTHWORK (COMPACTED FILL)

STONE (CAST)

STONE (CAST)

SAND

SAND

ALUMINUM

ALUMINUM

CMU LINTEL

CMU LINTEL

ORNAMENTAL METAL

ORNAMENTAL METAL

CMU BOND BEAM

CMU BOND BEAM

STEEL AND OTHER METALS

STEEL AND OTHER METALS

CMU (SECTION)

CMU (SECTION)

INSULATION (BLANKET)

INSULATION (BLANKET)

PLYWOOD

PLYWOOD

INSULATION, RIGID BOARD

INSULATION, RIGID BOARD

WOOD BLOCKING OR SHIM

WOOD BLOCKING OR SHIM

SHEET METAL

SHEET METAL

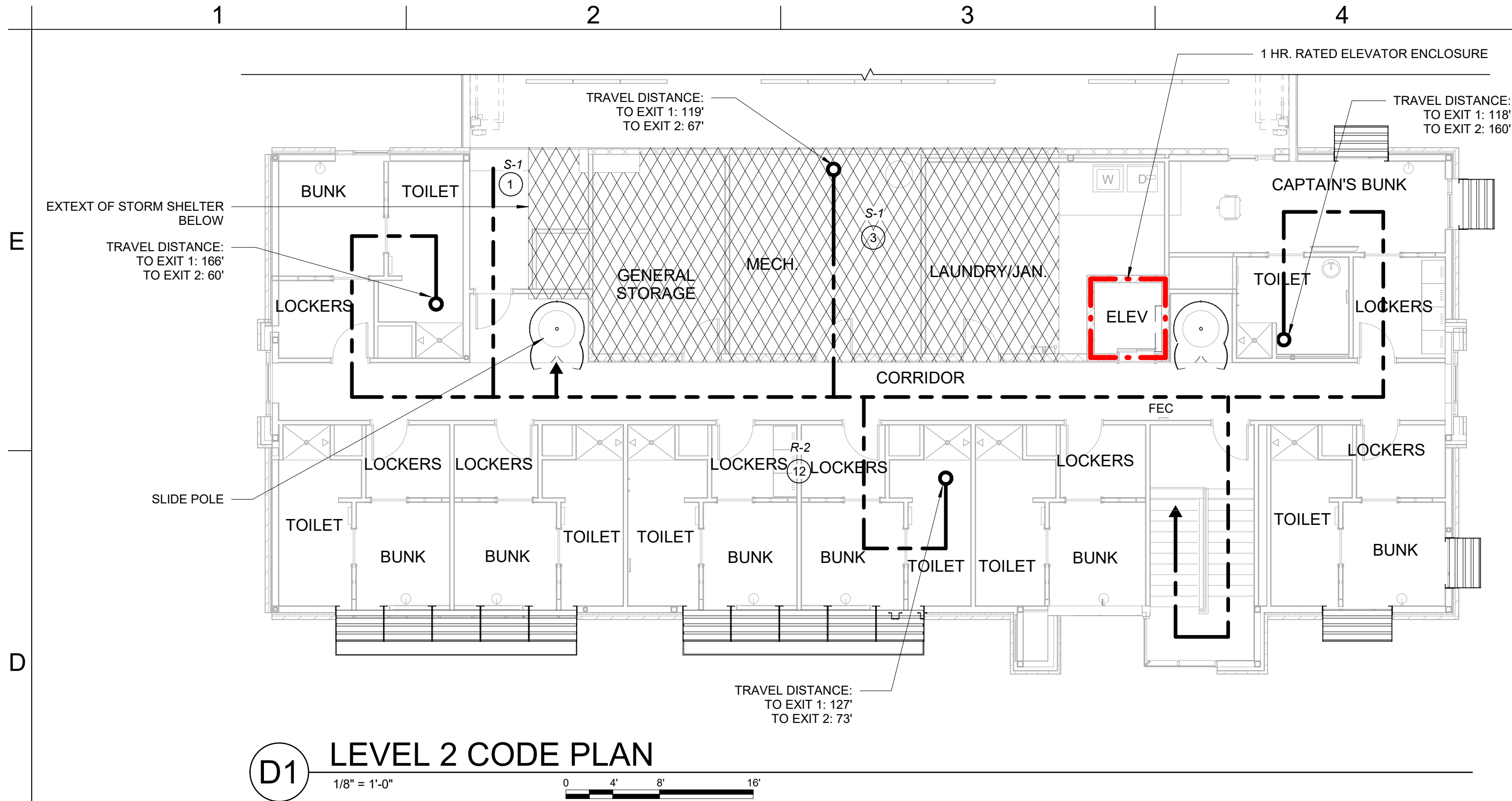
WOOD FRAMING (CONTINUOUS)

WOOD FRAMING (CONTINUOUS)

SHEET INDEX

| SHEET NUMBER | SHEET NAME | SHEET NUMBER | SHEET NAME |
|-----------------|----------------------------|--------------|--------------------------------|
| FIRE STATION #5 | | | |
| GENERAL | COVER SHEET | MECHANICAL | MPE SITE PLAN |
| G-001 | COVER SHEET | ME001 | SITE LIGHTING PHOTOMETRIC PLAN |
| G-002 | CODE SUMMARY | ME002 | MPE ROOF PLAN |
| G-003 | CODE MODIFICATION | M-001 | HVAC SYMBOLS LEGEND |
| G-004 | STORM SHELTER CODE SUMMARY | M-101 | FIRST FLOOR HVAC PLAN |
| | | M-102 | SECOND FLOOR HVAC PLAN |
| | | M-201 | FIRST FLOOR HVAC PIPING PLAN |
| | | M-202 | SECOND FLOOR HVAC PIPING PLAN |
| | | M-301 | MECHANICAL DETAILS |
| | | M-401 | MECHANICAL SCHEDULES |
| | | M-402 | MECHANICAL SCHEDULES |
| CIVIL | SURVEY | PLUMBING | PLUMBING SYMBOLS LEGEND |
| C-000 | SURVEY | P-001 | UNDERGROUND PLUMBING PLAN |
| C-100 | SITE PLAN | P-101 | FIRST FLOOR PLUMBING PLAN |
| C-101 | LAYOUT PLAN | P-102 | SECOND FLOOR PLUMBING PLAN |
| C-102 | DEMOLITION PLAN | P-301 | PLUMBING DETAILS |
| C-103 | EROSION CONTROL PLAN | P-302 | WASTE AND VENT RISERS |
| C-104 | GRADING & DRAINAGE PLAN | P-303 | DOMESTIC WATER RISERS |
| C-105 | UTILITY PLAN | P-401 | PLUMBING SCHEDULES |
| C-220 | | | |

FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5/LSMO FireStation 5.rvt



CODE INFORMATION

I. Applicable Codes

- A. 2018 IBC
- C. 2020 ICC 500
- D. ICC/ANSI A117.1-2009
- E. 28 CODE OF FEDERAL REGULATIONS (CFR) PART 35.15 AS DETAILED IN THE DEPARTMENT OF JUSTICE TITLE II ADA REGULATIONS AND THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN

II. Building Information:

- A. II-B Construction (Per IBC 602)
- B. Fully Sprinklered (Per IBC 901.2)
- C. Full Perimeter Frontage (Per IBC 506.3)
- D. Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)

III. Code Compliance Summary:

A. Building Height & Area:

- 1. Allowable Area / Stories / Height per IBC Table 504.3, 504.4, 506.2, Fully-Sprinklered:
 - S-1: 52,500 sf / 3-story / 75 ft. (S-1 most restrictive height)
 - S-2: 78,000 sf / 4-story / 75 ft.
 - B: 69,000 sf / 4-story / 75 ft.
 - R-2: 48,000 sf / 5-story / 75 ft. (R-2 most restrictive area)

2. Allowable:

Height: 3-story, 75 ft.
Area per story: 48,000 sf

3. Proposed:

Height: 2-Story Building, 33 ft
Area:
7,692 sf - First Floor
3,754 sf - Second Floor
11,446 sf - Total

98 sf - Mezzanine above Apparatus Bays
3,606 sf - Apparatus Bay

per IBC 505.2.1: "The aggregate area of a mezzanine or mezzanines within a room shall not exceed one-third of the floor area of that room or space in which they are located."

"Exception 2: The aggregate area of mezzanine in building and structures of Type I or II construction shall be not greater than one-half of the floor area of the room in buildings and structures equipped throughout with an approved automatic sprinkler system in accordance with Section 903.1.1 and an approved emergency voice/alarm communication system in accordance with Section 907.5.2.2."

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

| | Required | Proposed |
|-----------------------------|----------|----------|
| Exterior Load Bearing Walls | 0 hr. | 0 hr. |
| Interior Load Bearing Walls | 0 hr. | 0 hr. |
| Structural Frame | 0 hr. | 0 hr. |
| Floor Construction | 0 hr. | 0 hr. |
| Roof Construction | 0 hr. | 0 hr. |

2. Corridors with Sprinkler System per IBC-T 1020.1

| | | |
|--|-------|-------|
| A, B, E, F, M, S, U | 0 hr. | 0 hr. |
| R per Code modification. See sheet G-003 | 0 hr. | 0 hr. |
| Elevator Shaft Enclosure | 1 hr. | 1 hr. |

Notes:

- a. Per IBC 708.4: "Fire partitions shall extend from the top of the foundation or floor/ceiling assembly below to one of the following: 1. The underside of the floor or roof sheathing, slab or deck above. 2. The underside of a floor/ceiling or roof/ceiling assembly having a fire-resistance rating that is not less than the fire-resistance rating of the fire partition."
- b. Also, per IBC 708.4.1: "The supporting construction for a fire partition shall have a fire-resistance rating that is equal to or greater than the required fire-resistance rating of the supported fire partition. Exception: In buildings of Types IIB, IIIB and VB construction, the supporting construction requirement shall not apply to fire partitions separating tenant spaces in covered and open mall buildings, fire partitions separating dwelling units, fire partitions separating sleeping units and fire partitions serving as corridor walls."

3. Exterior Walls per Separation Distance IBC Table 602:

| | | |
|----------------------|-------|-------|
| Greater than 30 feet | 0 hr. | 0 hr. |
| Less than 5 feet | 1 hr. | 1 hr. |

4. Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening

Protection per IBC Table 705.8

5 to less than 10 feet, Unprotected, Sprinklered (UP,S)

25%

5. Accessory Storage room separation (>100sf)

0 hr.

C. Occupant Load (IBC Table 1004.5)

| | |
|-------------|----|
| Business | 19 |
| Residential | 12 |
| Storage | 34 |
| Total | 65 |

D. Plumbing Fixtures as Required per IBC Table 2902.1:

Notes:

- 1. Per IBC 2902.1.1, occupancy shall be viewed at 50% male and 50% female
- 2. Per IPC 424.2 "In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and education occupancies. Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies.
- 3. Occupant loads for plumbing fixture calculations have been calculated in accordance with IPC Table 403.1 and IBC 2902

| | | |
|------------------------|-----------------|-------------|
| Business | 1894gsf / 100 | 18.90cc |
| - Toilets (M): | 190cc / 25 | 0.76 |
| - Toilets (F): | 190cc / 25 | 0.76 |
| - Lavatories (M): | 190cc / 25 | 0.76 |
| - Lavatories (F): | 190cc / 25 | 0.76 |
| - Drinking Fountain: | 190cc / 100 | 0.19 |
| Residential | 2538gsf / 200 | 12.00cc |
| - Toilets (M): | 120cc / 10 | 1.20 |
| - Toilets (F): | 120cc / 10 | 1.20 |
| - Lavatories (M): | 120cc / 10 | 1.20 |
| - Lavatories (F): | 120cc / 10 | 1.20 |
| - Showers: | 120cc / 8 | 1.50 |
| - Drinking Fountain: | 120cc / 100 | 0.12 |
| Storage | 1969gsf / 300 | 6.60cc |
| 3606gsf / 200 | 18.00cc | |
| 322gsf / 50 | 6.40cc | |
| - Toilets (M): | 310cc / 100 | 0.31 |
| - Toilets (F): | 310cc / 100 | 0.31 |
| - Lavatories (M): | 310cc / 100 | 0.31 |
| - Lavatories (F): | 310cc / 100 | 0.31 |
| - Drinking Fountain: | 310cc / 1000 | 0.03 |
| Totals | | |
| - Toilets (Unisex): | 4.54 Required / | 11 Provided |
| - Lavatories (Unisex): | 4.54 Required / | 11 Provided |
| - Showers: | 1.50 Required / | 9 Provided |
| - Drinking Fountain: | 0.34 Required / | 1 Provided |
| - Service Sink: | 2 Required / | 2 Provided |

E. Means of Egress Notes:

- 1. See Code Plan for additional exit / egress information
- 2. Per IBC Table 1017.2, Exit Access Travel Distance shall not exceed 250'.
- 3. Maximum Common Path of Egress Travel

1. Per IBC Table 1006.2.1

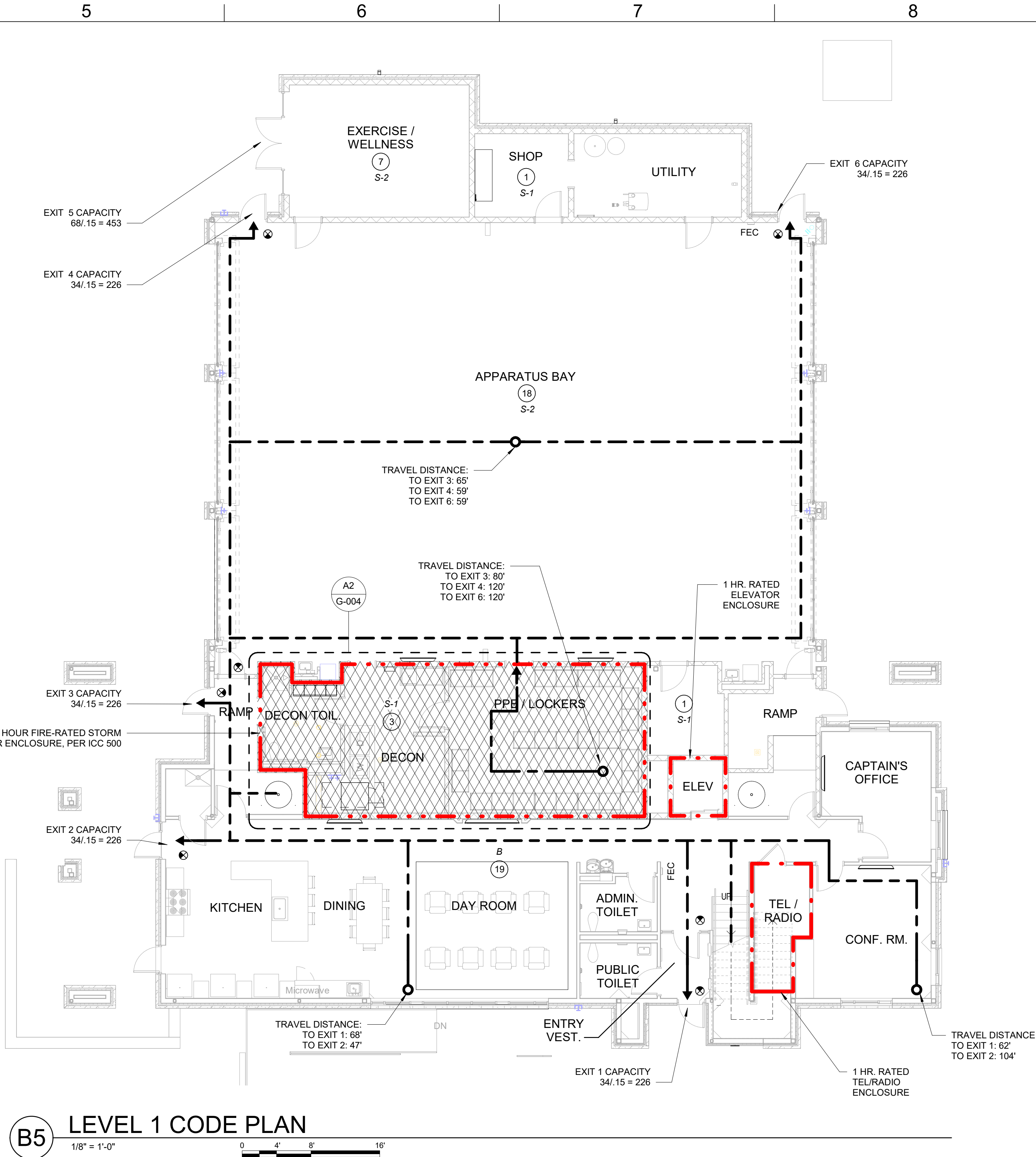
| | |
|------------|--------|
| Required | |
| B, S | 100 ft |
| R-2 | 125 ft |
| All others | 75 ft |

G. Sprinkler System

- 1. NFPA 13
- 2. IBC 903
- 3. Centrally Monitored

H. Fire Alarm System

- 1. Per IBC 907.2.9.1, Exception 1: "Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler waterflow."



CODE PLAN LEGEND

| | |
|--|---|
| | STORM SHELTER EXTENTS |
| | NUMBER OF OCCUPANTS PER AREA |
| | EXIT SIGN |
| | FIRE EXTINGUISHER CABINET, FULLY RECESSED |
| | DEFIBRILLATOR CABINET, SEMI-RECESSED |
| | OCCUPANCY USE |
| | EGRESS PATH |
| | 1 HR. RATED CONSTRUCTION |
| | 2 HR. RATED CONSTRUCTION |

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

| PER IBC TABLE 803.13 | | | |
|----------------------|--|--|---------------------------|
| Group | INTERIOR EXIT STAIRWAYS AND EXIT PASSAGEWAYS | CORRIDOR AND ENCLOSURE FOR EXIT ACCESS | ROOMS AND ENCLOSED SPACES |
| B | B | C | C |
| R-2, S | C | C | C |

CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450.
CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450.
CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450.

REVISIONS:

| # | Description | Date |
|---|-------------|------|
|---|-------------|------|



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architects seal affixed to this sheet applies only to the material and work shown on this sheet. All drawings, specifications or other documents not submitted for review shall not be considered prepared by the architect, and the architect expressly disclaims any and all responsibility for such plans, drawings, or documents not submitted for review.

PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

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CODE SUMMARY

G-002

CODE MODIFICATION 1:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:
NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER () APPROVAL (X) DENIAL

SIGNATURE: Tracy Deister DATE: 8/1/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: () APPROVED (X) DENIED

SIGNATURE: [Signature] DATE:

COMMENTS: Ratios must comply with accessibility requirements of the 2018 International Building Code

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofls.net

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 <https://www.ada.gov/reg2010/2010ADASTandardsGuidance2010ADA4a...>

physical construction, whichever comes first," stating that "altering a design after a building permit has been issued can be an undue burden."

After considering these comments, the Department has decided to continue to use the commencement of physical construction as the triggering event for application of the 2010 Standards for facilities covered by title II. The Department has also added clarifying language at Sec. 35.151(c)(1) to the regulation to make it clear that the date of ceremonial groundbreaking or the date a structure is razed to make it possible for construction of a facility to take place does not qualify as the commencement of physical construction.

Section 234 of the 2010 Standards provides accessibility guidelines for newly designed and constructed amusement rides. The amusement ride provisions do not provide a "triggering event" for new construction or alteration of an amusement ride. An industry commenter requested that the triggering event of "first use" be noted in the Advisory note to section 234.1 of the 2004 ADAAG, be included in the final rule. The Advisory note provides that "All custom designed and constructed rides are new upon its first use, which is the first time amusement park patrons take the ride." The Department declines to treat amusement rides differently than other types of new construction and alterations. Under the final rule, they are subject to Sec. 35.151(c). Thus, newly constructed and altered amusement rides shall comply with the 2010 Standards if the start of physical construction or the alteration is on or after 18 months from the publication date of this rule. The Department also notes that section 234.4.2 of the 2010 Standards only applies where the structural or operational characteristics of an amusement ride are altered. It does not apply in cases where the only change to a ride is the theme.

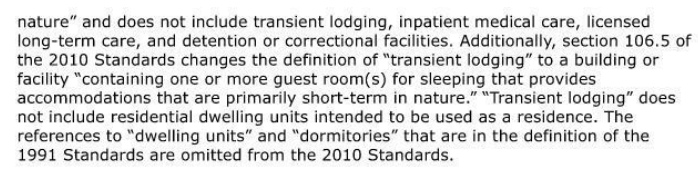
Noncomplying new construction and alterations. The element-by-element safe harbor referenced in Sec. 35.150(b)(2) has no effect on new or altered elements in existing facilities that were subject to the 1991 Standards or UFAS on the date that they were constructed or altered, but do not comply with the technical and scoping specifications for those elements in the 1991 Standards or UFAS. Section 35.151(c)(1) of the final rule sets forth the rules for noncompliant new construction or alterations in facilities that were subject to the requirements of this part. Under the final rule, a facility that is noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012, shall, on or after March 15, 2012 be made accessible in accordance with the 2010 Standards.

§ 35.151(e) Scope of coverage

In the NPRM, the Department proposed a new provision, Sec. 35.151(d), to clarify that the requirements established by Sec. 35.151, including those contained in the 2004 ADAAG, prescribe what is necessary to ensure that buildings and facilities, including fixed or built-in elements in new or altered facilities, are accessible to individuals with disabilities. Once the construction or alteration of a facility has been completed, all other aspects of programs, services, and activities conducted in that facility are subject to the operational requirements established in this final rule. Although the Department may use the requirements of the 2010 Standards as a guide to determining when and how to make equipment and furnishings accessible, those determinations fall within the discretionary authority of the Department.

The Department also wishes to clarify that the advisory notes, appendix notes, and figures that accompany the 1991 and 2010 Standards do not establish separately enforceable requirements unless specifically stated otherwise in the text of the standards. This clarification has been made to address concerns expressed by AEPDM commenters who mistakenly believed that the advisory notes in the 2004 ADAAG established requirements beyond those established in the text of the guidelines (e.g., Advisory 504.4 suggests, but does not require, that covered entities provide physical contrast on stair tread nosing to make them more visible to individuals with low vision). The Department received no significant comments on this section and it is unchanged in the final rule.

Definitions of residential facilities and transient lodging. The 2010 Standards add a definition of "residential dwelling unit" and modify the current definition of "transient lodging." Under section 106.5 of the 2010 Standards, "residential dwelling unit" is defined as "a unit intended to be used as a residence, that is permanently long-term in nature"



January 25, 2022

Joe Frogge & Mike Weisenborn
City of Lee's Summit, Missouri
Development Services
220 SE Green Street
Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5
Modification Request to IBC 2018 Section 1109.2
Exception #3 - Clustered Multiple Single-User Toilet and Bathing Facilities

Dear Mr. Deister and Mr. Elam:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. Lemay Erickson Willcox Architects (LEWA) and GLMV Architects requests a code modification for the following:

- The request is for the City of Lee's Summit to follow the 2010 Department of Justice "Guidance on the 2010 ADA Standards for Accessible Design" which is attached. The guidance outlines this portion of an Emergency Services building that is covered by the residential dwelling standards rather than the transient lodging standards as these standards apply to the private living spaces of the station (not accessible to the public).

Sincerely,

[Signature]
Matthew Fadel, AIA, LEED AP
Project Manager

8 of 655

12/18/2021, 9:57 AM

CODE MODIFICATION 2:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:
NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deister DATE: 8/1/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED () DENIED

SIGNATURE: [Signature] DATE:

COMMENTS:

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofls.net

January 25, 2022

Joe Frogge & Mike Weisenborn
City of Lee's Summit, Missouri
Development Services
220 SE Green Street
Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5
Modification Request to IBC 2018 Section 508.4.4 and Section 1020.1

Dear Mr. Frogge and Mr. Weisenborn:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. Lemay Erickson Willcox Architects (LEWA) and GLMV Architects request a code modification for the following:

- The occupancy classification of the building is designed as "Mixed-Use, non-separated". The design designates the first floor spaces (plan-south of the apparatus bays) as "Business Group B" while the second floor spaces are designated as "Residential Group R-2". In accordance with IBC Section 508.4.4, Table 508.4.4, the code requires that there be a 1-hour fire-rated separation between those occupancies. Also, in accordance with IBC Table 1020.1, because the total occupant load in the R-2 occupancy is greater than 10 (12 total occupants), the required fire-resistance rating for the corridor is 1-hour rating to the exit. The occupants of the R-2 spaces are professional, able-bodied firefighters who will have a detailed familiarity of the building where they will spend most of their time. They are also equipped with the knowledge and experience to handle fire-related issues within their own building. We request that the City of Lee's Summit eliminate the requirement for the "B" and "R-2" occupancies to have 1-hour fire rated separation between occupancies and to eliminate the continuous 1-hour fire rating for egress to an exit. This would allow for the main stair to be open and communicate between the first and second floors and would also allow the two response fire poles to serve as the secondary means of egress from the second floor to the building exits.

Sincerely,

[Signature]
Matthew Fadel, AIA, LEED AP
Project Manager

CODE MODIFICATION 3:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:
NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deister DATE:

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED () DENIED

SIGNATURE: [Signature] DATE:

COMMENTS:

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofls.net

February 10, 2022

Joe Frogge & Mike Weisenborn
City of Lee's Summit, Missouri
Development Services
220 SE Green Street
Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5
Modification Request to IBC 2018, CHAPTER 2 - DEFINITIONS to Exit Access as it relates to Section 1006.3.3(2)

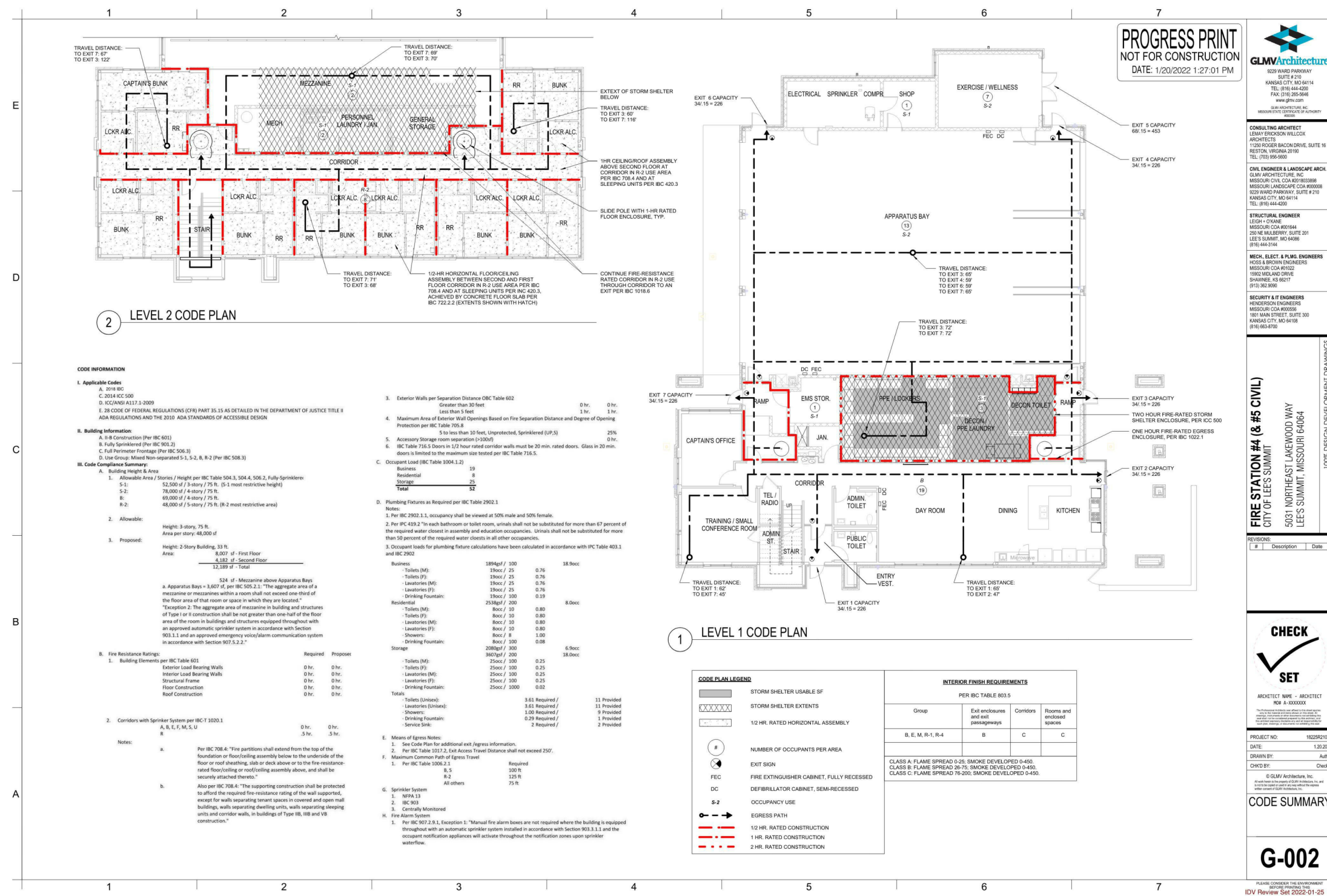
Dear Mr. Deister and Mr. Elam:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. Lemay Erickson Willcox Architects (LEWA) and GLMV Architects requests a code modification for the following:

- In accordance with Table 1006.3.3(2), the R-2 Use Group on the second floor requires a second exit or access to a second exit from the second floor to the first floor, and the main stair is designated as an Exit Access Stair; the request is for the City of Lee's Summit to consider the fire response pole included as a part of the "Exit Access".
- The plan current represents two response poles located at approximately the one-third and two-thirds points of the second floor corridor. As the second floor will house the private bunks of professional, able-bodied firefighters, they will have a very high level of familiarity and comfort with the use of such poles. The occupants will readily use those devices as part of their means of egress out of the station. The three vertical egress elements are located on the second floor and provide egress paths that allow for remote ways of exiting the building safely and address the intent of the code.

Sincerely,

[Signature]
Matthew Fadel, AIA, LEED AP
Project Manager



CONSULTING ARCHITECT
FSMA ARCHITECTS
11250 ROGER BACON DRIVE, SUITE 16
RESTON, VIRGINIA 20190
TEL: (703) 956-5600

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HOOCH & BROWN ENGINEERS
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SHAWNEE, KS 66217
(913) 362-9090

SECURITY & IT ENGINEERS
HENDERSON ENGINEERS
MISSOURI COA #000556
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 863-8700

ISSUED FOR CONSTRUCTION
FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:
Description Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architect uses the seal to the seal applies only to the sealed and dated drawings on this sheet. All drawings, regardless of date, including those not sealed, are not to be considered prepared by the architect, and the architect expressly disclaims any and all responsibility for such plan, drawing, or documents not exhibiting this seal.

PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: JSP
CHK'D BY: PJM

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CODE MODIFICATION

G-003

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FILE PATH: BM 360://18225R21001_LeeSummitFireStation_#4 and #5LSMO_FIRE STATION 5.rvt

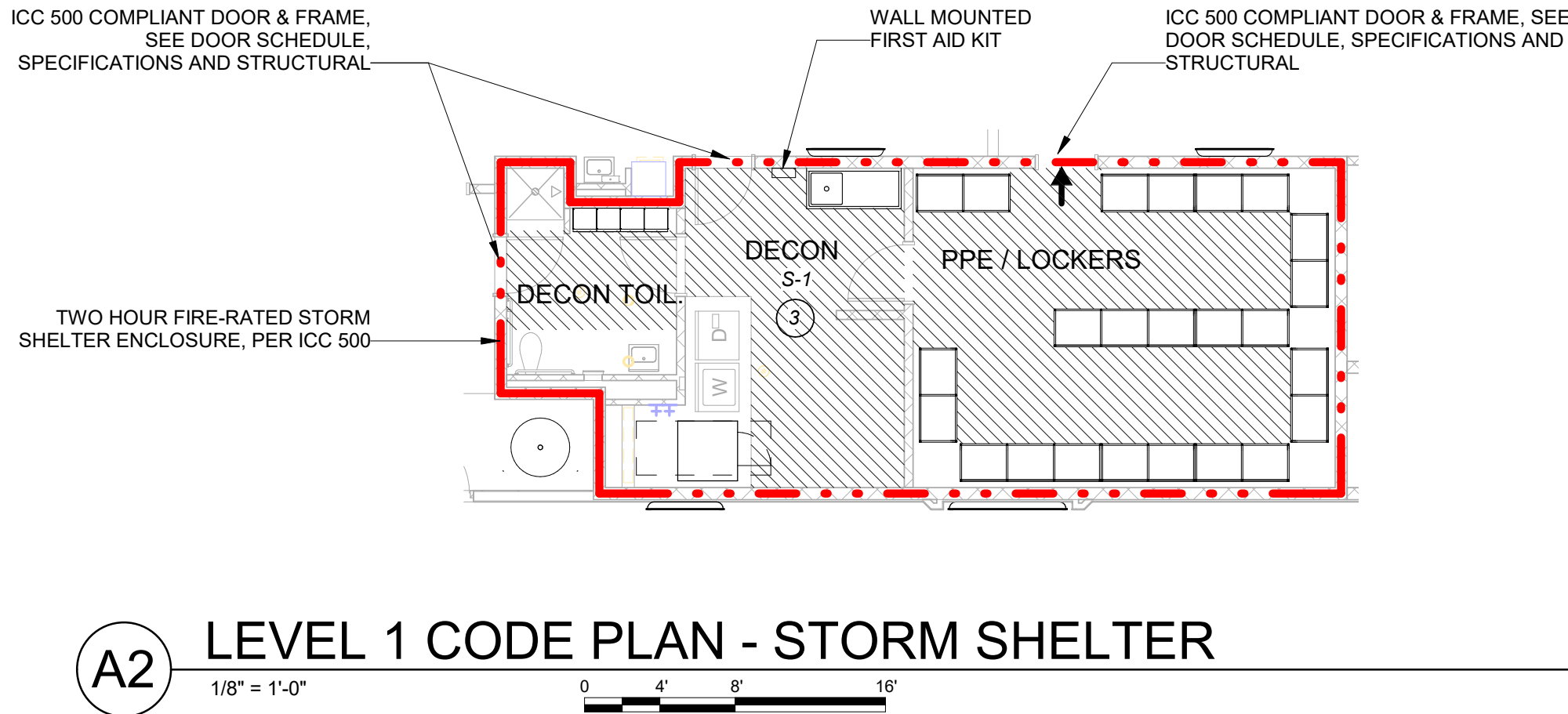
E

D

C

B

A



STORM SHELTER INFORMATION:

THE PROJECT HAS BEEN DESIGNED TO THE ICC 500-2020, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER REQUIREMENTS.

SEE STRUCTURAL, ARCHITECTURAL, INTERIOR, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CALCULATIONS NOT REPRESENTED ON THIS SHEET.

REFER TO THIS SHEET FOR EXTENTS OF THE STORM SHELTER.

| [S106.2.1] DESIGN INFORMATION | | |
|---|---|--|
| • TYPE: | COMMUNITY SHELTER FOR TORNADO PROTECTION | |
| • RISK CATEGORY: | IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS) | |
| • DESIGN WIND SPEED (V _i): | 250 MPH | |
| • WIND EXPOSURE CATEGORY: | C | |
| • INTERNAL PRESSURE COEFFICIENT (GC _{pi}): | +/- 0.55 | |
| • TOPOGRAPHIC FACTOR (K _{zt}): | 1.0 | |
| • DIRECTIONALITY FACTOR (K _d): | 1.0 | |
| • DESIGN WIND PRESSURE FOR THE SPECIFICATION OF COMPONENTS AND CLADDING OF THE STORM SHELTER ENVELOPE | SEE STRUCTURAL SHEET S-001 | |
| • SITING: | | |
| • MINIMUM FLOOR ELEVATION PER AUTHORITY HAVING JURISDICTION | N/A | |
| • 500-YEAR FLOOD ELEVATION | N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE | |
| • STORM SURGE FLOOD ELEVATION | N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE | |
| • STORM SHELTER FLOOR ELEVATION | 100' - 0" (909.24' CIVIL) | |
| • OCCUPANT LOAD (AS A STORM SHELTER) | | |
| • DESIGN OCCUPANCY LOAD | 80 | |
| • USABLE FLOOR AREA | 407 S.F. (AS INDICATED WITH HATCHED AREA PER §502.4.2) | |
| • VENTING AREA: | REFERENCE MPE SHEET | |
| • SANITATION FIXTURE CALCULATION (TABLE 702.3) | | |
| • STORM SHELTER TYPE: | COMMUNITY, DESIGN OCCUPANCY LOAD >= 50 | |
| • WATER CLOSETS: | 1 (1 PER 250 FOR THE FIRST 500 OCCUPANTS) REQ'D, 1 PROVIDED | |
| • HAND WASHING FACILITIES: | 1 (1 PER 1,000 OCCUPANTS) REQ'D, 1 PROVIDED | |
| • MINIMUM FOUNDATION REQUIREMENTS | | |
| • CAPACITY | REFERENCE STRUCTURAL SHEETS | |
| • THICKNESS | REFERENCE STRUCTURAL SHEETS | |
| • STEEL REINFORCEMENT/ CONCRETE COVER | SEE STRUCTURAL SHEETS | |
| • INSTALLATION REQUIREMENTS | | |
| • ANCHOR LOCATION, MINIMUM EDGE/ END DISTANCE | REFERENCE STRUCTURAL SHEETS | |
| • MIN. REQUIRED CAPACITY POST-INSTALLED ANCHORS | | |

MAXIMUM TRAVEL DISTANCE TO ICC-500 SHELTER:
1,000'-0" MAX. REQUIRED (PER IBC 423).
163'-0" PROVIDED FROM ROOM 203A.

STORM SHELTER SITING:
1. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA ON THE SITE SUSCEPTIBLE TO FLOODING.
2. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA PROXIMATE TO HAZARDOUS MATERIALS.
3. STORMSHELTER IS LOCATED OUTSIDE A HIGH-RISK FLOOR HAZARD AREA.

SECTION 504 SIGNAGE FOR COMMUNITY SHELTERS

508.1 SIGNAGE REQUIREMENTS.
All storm shelters shall be marked with design inforamtion in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in acco4rdance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

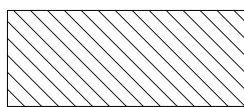
508.2 DESIGN INFORMATION SIGNAGE.
All storm shelters shall have a sign on or within the storm shelter with all of the following:
1. The design occupant capacity.
2. The storm type.
3. The design wind speed.
4. The edition of the ICC 500 used for the design.
5. The name of the manufacturer or builder of the storm shelter.

508.5 DIRECTIONAL SIGNAGE WITHIN A HOST BUILDING
Where a storm shelter is within a host building, to direct untended occupants to the storm shelter. The path of travel to the storm shelter shall be clearly marked to indicate the direction of travel in cases where the path of travel is not immediately visible to the intended occupants.

508.6 ENTRY SIGNAGE
Signage indicating "Tornado Shelter" or "Hurricane Shelter" and appropriate symbols as applicable, shall be installed on the outside of the storm shelter, adjacent to every access opening intended to provide entry for occupants into the storm shelter.

508.7 PERIMETER SIGNAGE
Signs shall be installed inside of the storm shelter adjacent to every access or egress opening, which access nonprotected areas located outside of the storm shelter. For example, signage indicating "Notice: Now leaving the Tornado shelter," or "Notice: Now leaving the Hurricane Shelter."

STORM SHELTER LEGEND



USABLE FLOOR AREA



2 HR FIRE SEPARATION ASSEMBLY -
REFER TO WALL ASSEMBLY AND PARTITION TYPE DETAILS FOR ASSEMBLY INFORMATION



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#000305

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SECURITY & IT ENGINEERS
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MISSOURI COA #000556
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KANSAS CITY, MO 64108
(816) 663-8700

**FIRE STATION #5
CITY OF LEE'S SUMMIT**
**801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082**
ISSUED FOR CONSTRUCTION

REVISIONS:

| # | Description | Date |
|---|-------------|------|
|---|-------------|------|



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

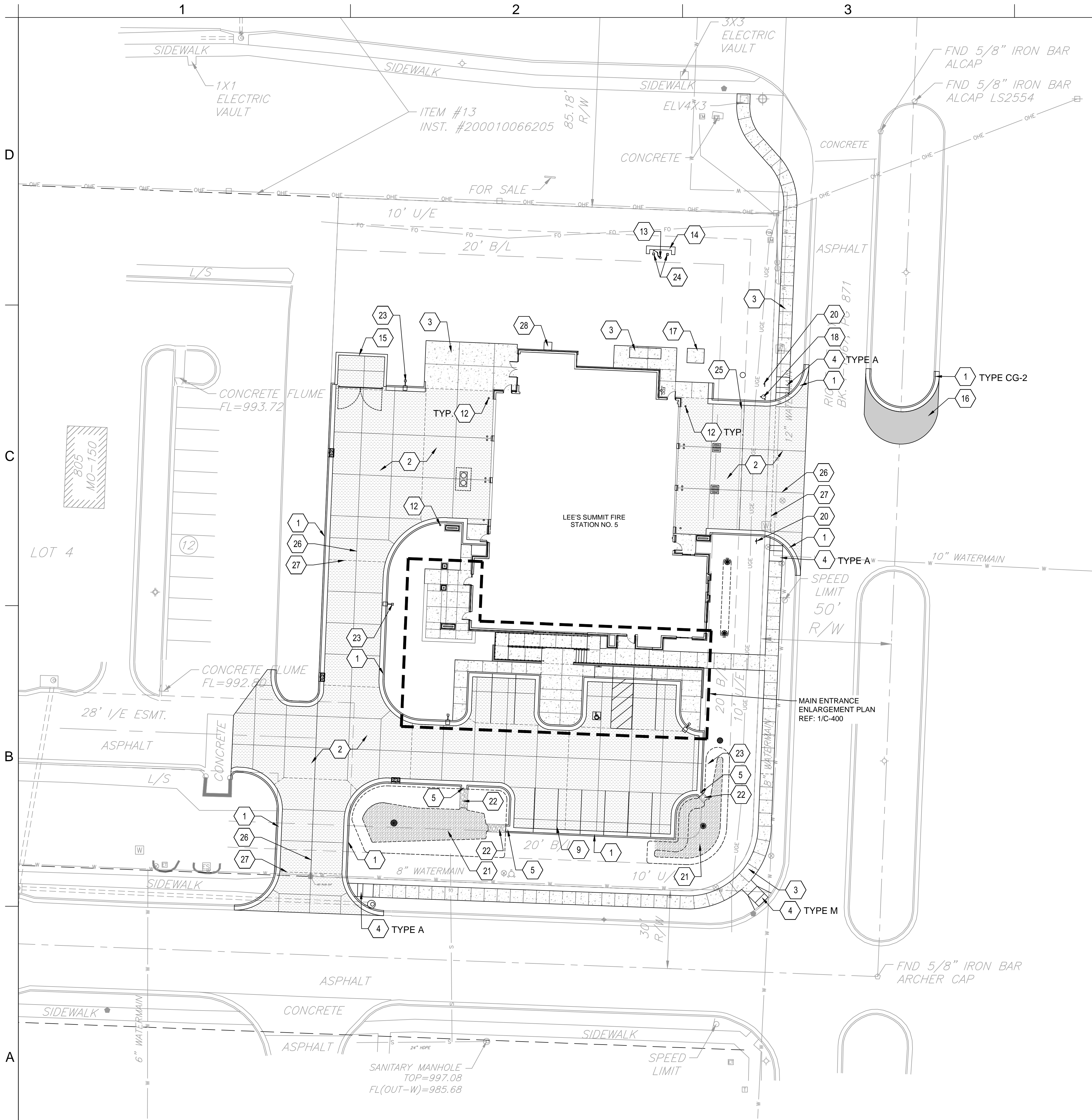
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**STORM SHELTER
CODE SUMMARY**

G-004

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BEFORE PRINTING THIS



GENERAL SITE NOTES:

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION/DIGGING.
4. ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST. PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. CONTRACTOR SHALL REPAIR ALL DISTURBED LANDSCAPING.
6. REFERENCE GRADING & DRAINAGE PLAN FOR DETAILED CURB TRANSITION POINTS.

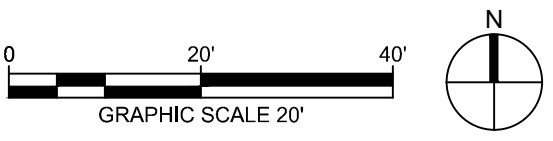
KEYNOTES

1. TYP. CURB & GUTTER
TYPE CG-1 UNLESS OTHERWISE NOTED.
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C-503
2. TYP. CONCRETE PAVING
REF: 1/C-500
3. CONCRETE SIDEWALK PAVING
REF: 1/C-504
4. ADA SIDEWALK RAMP.
REF: 3/C-504
5. CURB CUT
REF: 11/C-500
6. RETAINING WALL
REF: STRUCTURAL
7. CONCRETE STEPS
REF: 4/C-502
8. ADA RAMP AND GALVANIZED HANDRAIL
REF: 2, 3, 4, 5/C-502
9. PAVEMENT STRIPING
REF: 3/C-500
10. ADA PAVEMENT MARKING
REF: 4/C-500
11. ADA PARKING SIGN
REF: 5/C-500
12. TYP. SAFETY BOLLARD
REF: 2/C-500
13. FLAG POLE
REF: 7/C-500
14. MONUMENT SIGN
REF: 8-10/C-500
15. DUMPSTER ENCLOSURE
REF: 1-6/C-501
16. ROADWAY ASPHALT PATCH
LEE'S SUMMIT STANDARD DETAIL
REF: 2/C-504
17. TRANSFORMER CONCRETE PAD
REF: MEP
18. RELOCATED FIRE HYDRANT
REF: C-220
19. SCREEN WALL
REF: ARCH
20. DO NOT ENTER SIGN
REF: 6/C-500
21. MISSOURI RIVER ROCK, 1'-1 1/2" IN SIZE.
PLACED OVER GEOTEXTILE FABRIC.
REF: 3 & 4/C-401
22. MISSOURI RIVER ROCK RIPRAP, 3'-5" IN SIZE.
PLACED OVER GEOTEXTILE FABRIC.
REF: 11/C-500
23. TYP. AREA LIGHTING
REF: ELECTRICAL
24. TYP. FLAG POLE LIGHTING
REF: ELECTRICAL
25. LIMIT OF SNOW MELT SYSTEM
REF: MEP
26. CONSTRUCTION JOINT
REF: 2/C-503
27. ISOLATION JOINT
REF: 2/C-503
28. 3' X 3' CONCRETE SPLASH BLOCK
REF: 1/C-504

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK
- MISSOURI RIVER ROCK
- RETAINING WALL

1 SITE PLAN
1" = 20'-0"



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

| # | Description | Date |
|---|-------------|------|
|---|-------------|------|

DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196
10/26/2022

The Professional Engineers and drafters of this sheet agree to hold the engineer and firm harmless for any and all errors, omissions, or other documents not submitted for review and approval by the engineer and firm. The engineer and firm shall not be held responsible for any and all errors, omissions, or other documents not submitted for review and approval by the engineer and firm.

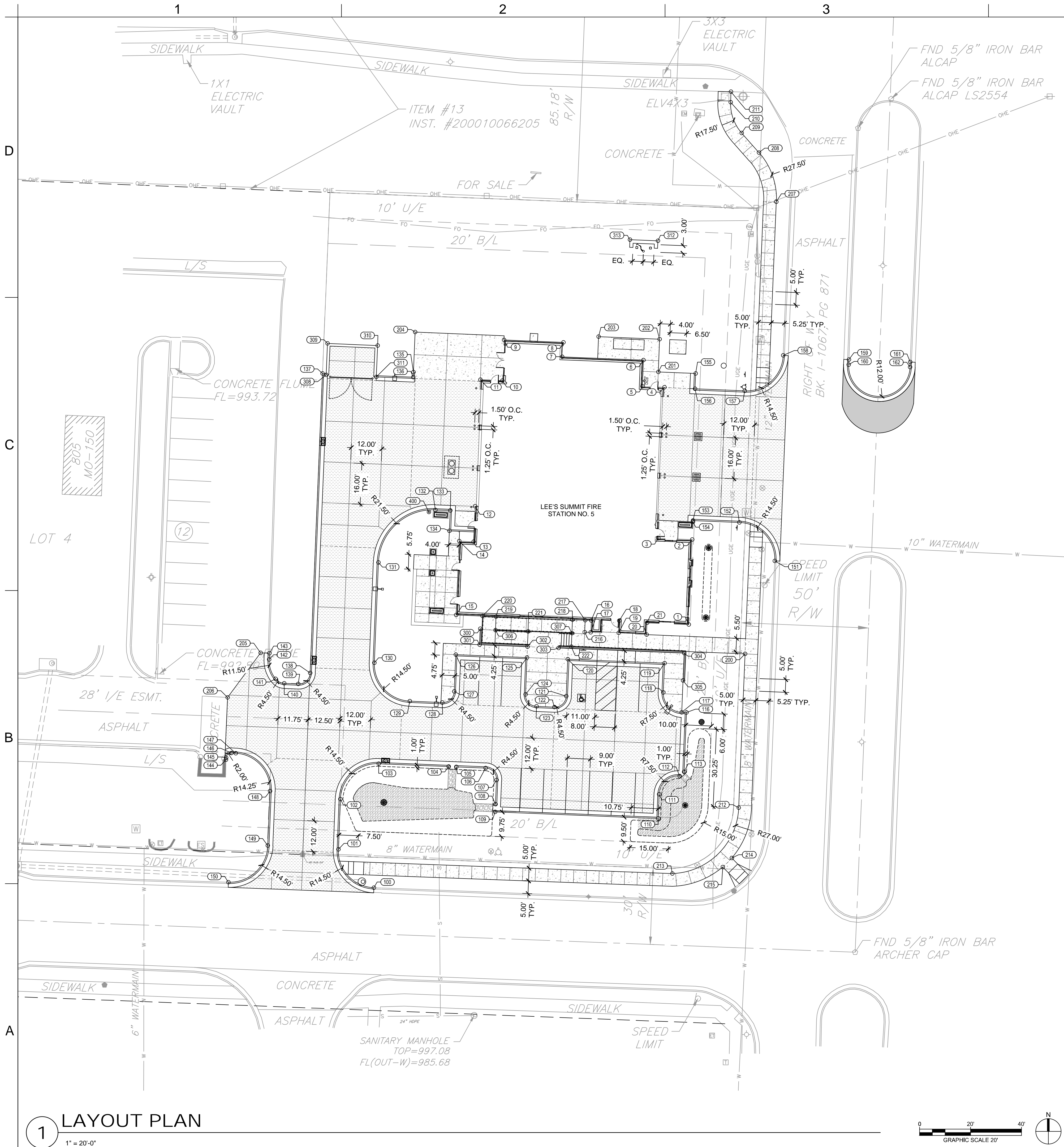
PROJECT NO: 18225R21001
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CHKD BY: DMH

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SITE PLAN

C-100

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LAYOUT NOTES

- 1. ALL CURB POINTS INDICATE BACK OF CURB UNLESS OTHERWISE NOTED.
- 2. SEE UTILITY PLAN FOR ALL UTILITY LOCATIONS AND LAYOUT.

| LAYOUT TABLE | | | |
|--------------|-------------|--------------|-------------|
| POINT NO. | NORTHING | EASTING | DESCRIPTION |
| 1 | 977961.0508 | 2818527.9968 | BLDG |
| 2 | 977994.3558 | 2818529.3645 | BLDG |
| 3 | 977994.9029 | 2818516.0424 | BLDG |
| 4 | 978054.1030 | 2818518.4736 | BLDG |
| 5 | 978054.4586 | 2818509.8143 | BLDG |
| 6 | 978064.7417 | 2818510.2357 | BLDG |
| 7 | 978066.0534 | 2818478.2947 | BLDG |
| 8 | 978071.7029 | 2818478.8291 | BLDG |
| 9 | 978072.6603 | 2818455.5154 | BLDG |
| 10 | 978056.7154 | 2818454.8606 | BLDG |
| 11 | 978057.0711 | 2818446.2012 | BLDG |
| 12 | 978007.4046 | 2818444.1615 | BLDG |
| 13 | 977993.5413 | 2818443.5922 | BLDG |
| 14 | 977993.7738 | 2818437.9302 | BLDG |
| 15 | 977964.7985 | 2818436.7403 | BLDG |
| 16 | 977962.6237 | 2818489.6956 | BLDG |
| 17 | 977957.9610 | 2818489.5041 | BLDG |
| 18 | 977962.5471 | 2818500.7018 | BLDG |
| 19 | 977957.7594 | 2818500.5051 | BLDG |
| 20 | 977957.0583 | 2818511.4856 | BLDG |
| 21 | 977961.7210 | 2818511.6771 | BLDG |
| 100 | 977857.8114 | 2818404.4309 | CURB |
| 101 | 977872.8579 | 2818390.5043 | CURB |
| 102 | 977892.5228 | 2818391.2609 | CURB |
| 103 | 977906.4532 | 2818406.3451 | CURB |
| 104 | 977905.3279 | 2818433.7559 | CURB |
| 105 | 977905.2049 | 2818436.7534 | CURB |
| 106 | 977904.7332 | 2818448.2432 | CURB |
| 107 | 977900.0523 | 2818452.5548 | CURB |
| 108 | 977890.5603 | 2818452.1650 | CURB |
| 109 | 977887.5629 | 2818452.0419 | CURB |
| 110 | 977884.9368 | 2818515.9880 | CURB |
| 111 | 977894.4288 | 2818516.3778 | CURB |
| 112 | 977901.6058 | 2818524.3953 | CURB |
| 113 | 977903.2415 | 2818526.1710 | CURB |
| 116 | 977926.5147 | 2818527.1267 | CURB |
| 117 | 977926.5937 | 2818525.2050 | CURB |
| 118 | 977934.3951 | 2818518.0191 | CURB |
| 119 | 977945.8854 | 2818518.4910 | CURB |
| 120 | 977947.4446 | 2818480.5230 | CURB |
| 121 | 977932.9569 | 2818479.9280 | CURB |
| 122 | 977928.8453 | 2818475.2471 | CURB |
| 123 | 977928.9325 | 2818468.2530 | CURB |
| 124 | 977933.6134 | 2818463.9415 | CURB |
| 125 | 977948.1012 | 2818464.5365 | CURB |
| 126 | 977949.2501 | 2818436.5600 | CURB |
| 127 | 977934.7623 | 2818435.9651 | CURB |
| 128 | 977930.4507 | 2818431.2842 | CURB |
| 129 | 977930.9750 | 2818418.5014 | CURB |
| 130 | 977946.0563 | 2818404.6086 | CURB |
| 131 | 977985.3941 | 2818406.2199 | CURB |
| 132 | 978005.9963 | 2818428.5798 | CURB |
| 133 | 978005.7578 | 2818434.4152 | CURB |
| 134 | 977997.7681 | 2818434.0887 | CURB |
| 135 | 978060.0648 | 2818419.9688 | CURB |
| 136 | 978058.0664 | 2818419.8867 | CURB |
| 137 | 978059.5293 | 2818384.2588 | CURB |
| 138 | 977942.0584 | 2818379.4156 | CURB |
| 139 | 977937.7481 | 2818374.7335 | CURB |
| 140 | 977937.9760 | 2818369.2236 | CURB |
| 141 | 977939.7570 | 2818365.8193 | CURB |
| 142 | 977947.3249 | 2818363.3264 | CURB |
| 143 | 977949.8057 | 2818363.4146 | CURB |
| 144 | 977908.0055 | 2818346.3667 | CURB |
| 145 | 977908.7720 | 2818346.4110 | CURB |
| 146 | 977910.6535 | 2818348.5228 | CURB |
| 147 | 977910.5543 | 2818350.2429 | CURB |

| LAYOUT TABLE | | | |
|--------------|-------------|--------------|-------------|
| POINT NO. | NORTHING | EASTING | DESCRIPTION |
| 148 | 977895.7090 | 2818363.6726 | CURB |
| 149 | 977874.3278 | 2818362.7921 | CURB |
| 150 | 977859.9520 | 2818347.3463 | CURB |
| 151 | 977985.9905 | 2818561.7588 | CURB |
| 152 | 978001.0741 | 2818547.8782 | CURB |
| 153 | 978001.8385 | 2818529.6722 | CURB |
| 154 | 978001.3499 | 2818529.6518 | CURB |
| 155 | 978059.5199 | 2818530.7136 | CURB |
| 156 | 978053.5172 | 2818530.4621 | CURB |
| 157 | 978052.6995 | 2818549.9744 | CURB |
| 158 | 978066.5984 | 2818565.0696 | CURB |
| 159 | 978064.9792 | 2818590.8405 | CURB |
| 160 | 978062.9815 | 2818590.7572 | CURB |
| 161 | 978063.9999 | 2818614.9252 | CURB |
| 162 | 978062.0135 | 2818614.8424 | CURB |
| 200 | 977949.5112 | 2818550.0897 | PAVE |
| 201 | 978060.1225 | 2818516.0497 | PAVE |
| 202 | 978072.9884 | 2818516.5781 | PAVE |
| 203 | 978073.9732 | 2818492.5983 | PAVE |
| 204 | 978075.7618 | 2818420.6133 | PAVE |
| 205 | 977949.9284 | 2818359.9668 | PAVE |
| 206 | 977932.4304 | 2818347.0272 | PAVE |
| 207 | 978126.8807 | 2818562.3780 | PAVE |
| 208 | 978146.1608 | 2818555.5595 | PAVE |
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| 218 | 977962.9161 | 2818482.3591 | PAVE |
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| 220 | 977964.3751 | 2818447.0505 | PAVE |
| 221 | 977958.3239 | 2818464.9486 | PAVE |
| 222 | 977952.3103 | 2818481.9326 | PAVE |
| 300 | 977959.3831 | 2818446.1832 | WALL |
| 301 | 977953.1180 | 2818445.9361 | WALL |
| 302 | 977952.3469 | 2818464.7108 | WALL |
| 303 | 977951.8460 | 2818476.9093 | WALL |
| 304 | 977949.8217 | 2818526.2015 | WALL |
| 305 | 977939.0807 | 2818525.7604 | WALL |
| 306 | 977958.8485 | 2818452.1754 | WALL |
| 307 | 977957.6175 | 2818482.1505 | WALL |
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| 309 | 978071.2940 | 2818386.2453 | WALL |
| 310 | 978070.4837 | 2818405.8986 | WALL |
| 311 | 978058.1613 | 2818405.3905 | WALL |
| 312 | 978111.5826 | 2818515.8967 | WALL |
| 313 | 978112.0038 | 2818504.9051 | WALL |
| 400 | 978005.1651 | 2818426.0425 | BOLLARD |

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK
- MISSOURI RIVER ROCK
- RETAINING WALL



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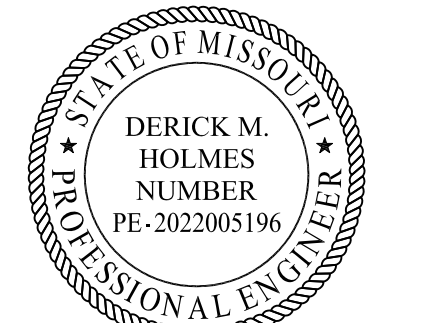
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LEE'S SUMMIT, MISSOURI 64082

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DATE: 10.26.2022

DRAWN BY: KDW

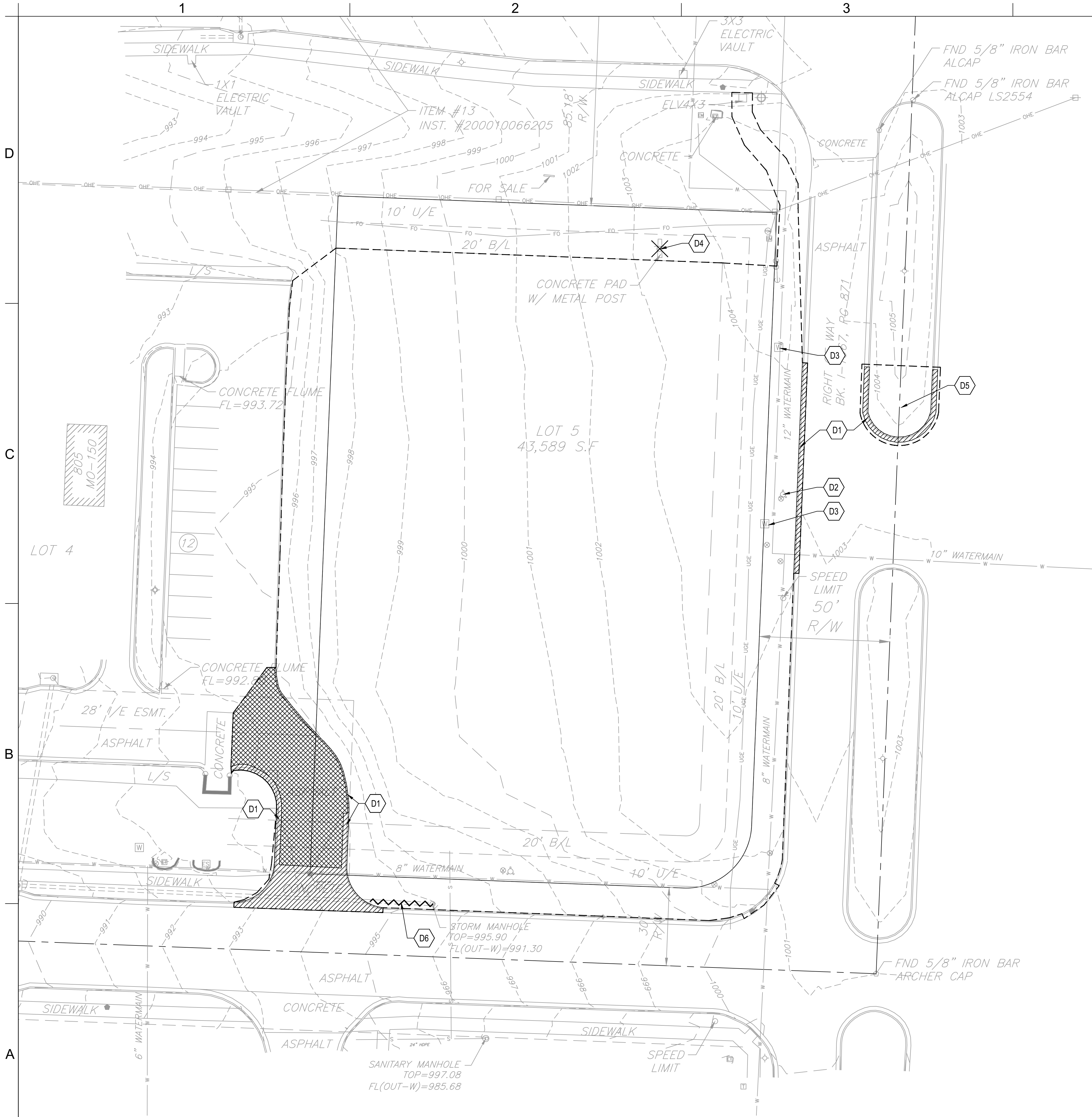
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LAYOUT PLAN

C-101

PLEASE CONSIDER THE ENVIRONMENT
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1 DEMOLITION PLAN
1" = 20'-0"

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, UNDERGROUND STORAGE TANKS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. EXISTING PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING WORK TO BE PERFORMED AND REMOVAL OF ALL SERVICE LINES. CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BMP'S) AS APPROVED BY OWNER, AUTHORITY HAVING JURISDICTION, AND CONSTRUCTION MANAGER.
7. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8. PRIOR TO ANY DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES MUST BE INSTALLED.
9. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
11. CONTRACTOR TO CLEAR SITE TO EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
12. CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN PROPERTY BOUNDARY LIMITS NOT INDICATED AS PROTECTED OR TO REMAIN.

KEYNOTES

- D1 REMOVE CURB & GUTTER
- D2 RELOCATE FIRE HYDRANT
REF: C-220
- D3 ADJUST WATER VALVE
TO PROPOSED GRADE
- D4 REMOVE SIGN POST AND FOUNDATION.
CAP AND ABANDON ALL ELECTRICAL IN PLACE
- D5 MOVE BOULDERS AND LANDSCAPE TO BE
EQUIDISTANT FROM CURB AS EXISTING CONDITION
- D6 REMOVE STORMWATER PIPE, REMOVE AND RELOCATE
STORM STRUCTURE, REF: C-104

LEGEND

- PAVEMENT TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- SITE FEATURE TO BE REMOVED
- APPROXIMATE LIMITS OF DISTURBANCE

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REVISIONS:

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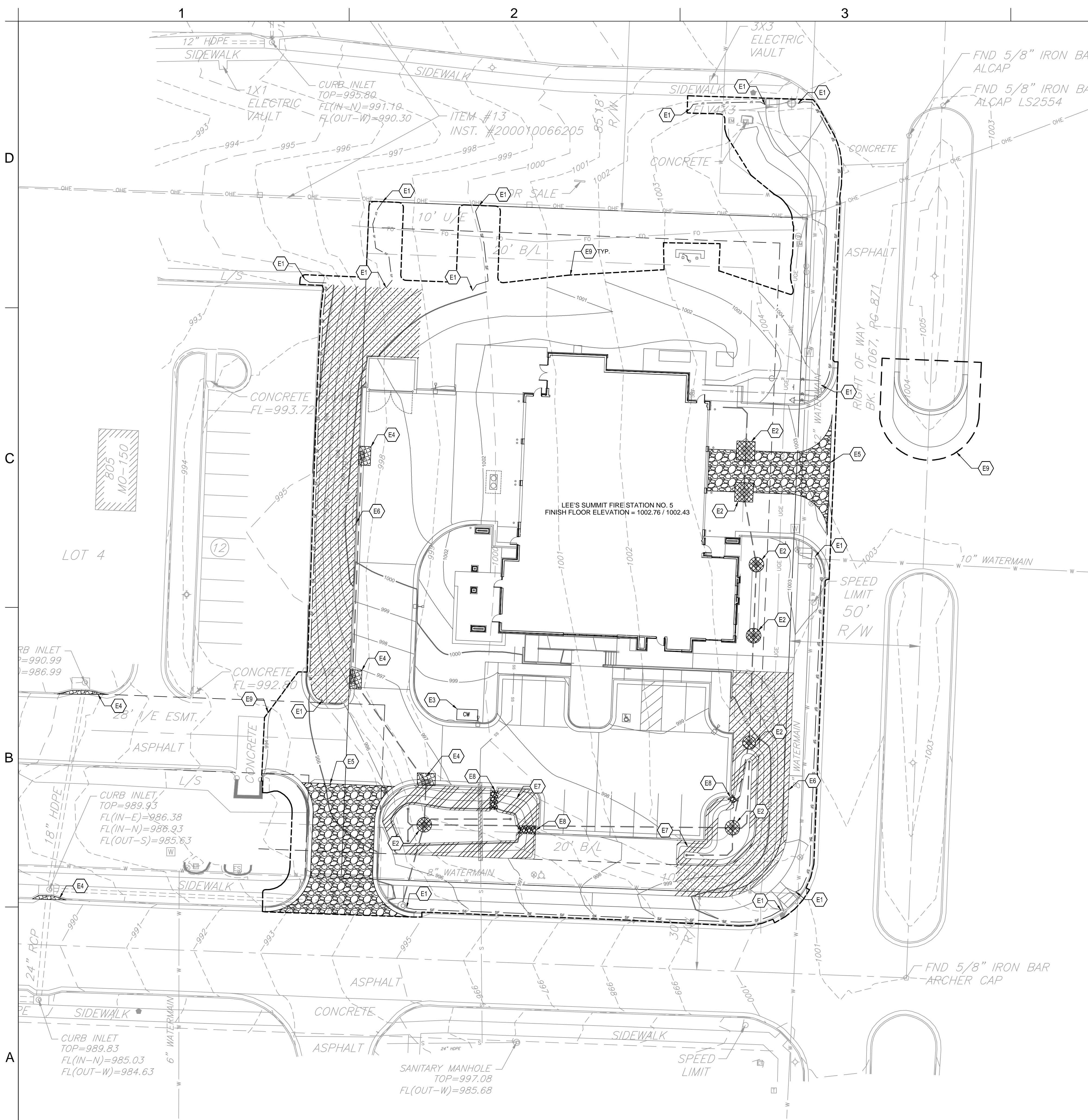
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NUMBER
PE-2022005196
10/26/2022
DERICK HOLMES - CIVIL ENGINEER
MD# PE-2022005196
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| | |
|-------------|-------------|
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| DATE: | 10.26.2022 |
| DRAWN BY: | KDW |
| CHKD BY: | DMH |

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DEMOLITION PLAN

C-102



GENERAL EROSION AND SEDIMENT CONTROL NOTES:

THIS SHEET OUTLINES MINIMUM STORMWATER PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTION OF SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC SEDIMENT AND EROSION CONTROL SCHEDULE. THESE NOTES ARE TO BE USED AS A GUIDELINE ONLY. THE PROJECT IS NOT CONSIDERED COMPLETE UNTIL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES ARE IN PLACE TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL TEMPORARY PRACTICES MUST BE PROPERLY REMOVED.

IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS PURSUANT TO THE GENERAL NPDES PERMIT FOR CONSTRUCTION STORMWATER, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THIS SITE. THE PLAN WAS DEVELOPED TO MINIMIZE THE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS. PREVENTION WILL BE PROVIDED THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES. THESE TECHNIQUES WILL INCLUDE BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE, THE FOLLOWING STEPS SHALL BE TAKEN DURING CONSTRUCTION:

1. PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AND GRAVEL CONSTRUCTION ENTRANCES.
2. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS:
 - 2.1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES
 - 2.2. INSTALL TEMPORARY PERIMETER SILT FENCE
 - 2.3. INSTALL TEMPORARY EXISTING CURB INLET PROTECTION
 - 2.4. CONSTRUCT SITE IMPROVEMENTS
 - 2.5. INSTALL PROTECTION FOR NEWLY INSTALLED CURB INLETS, AREA INLETS, AND JUNCTION BOXES
 - 2.6. INSTALL EROSION AND SEDIMENT CONTROL BLANKETS AND TURF REINFORCEMENT MATS
 - 2.7. SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS
 - 2.8. REMOVE TEMPORARY PRACTICES, PERIMETER CONTROLS, AND PERFORM SITE CLEANUP.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE KANSAS CITY METRO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. INSTALL SILT FENCE AT INDICATED LOCATIONS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. SILT FENCE SHALL BE KEPT IN PLACE UNTIL THE PROJECT IS STABILIZED.
4. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCE(S) AND CLEANING OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH STOCKPILES OF TOPSOIL OR FILL MATERIALS AND WITH SOIL ON SLOPES.
6. SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP SEDIMENT.
7. NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
8. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.
9. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT ALL JURISDICTIONAL AUTHORITY REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE RECEIVING SITE WILL BE PROPERLY PERMITTED, WHEN REQUIRED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
11. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED, AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

EROSION CONTROL KEYNOTES

- E1 SILT FENCE
REF: 3 / C-510
- E2 AREA INLET AND JUNCTION BOX PROTECTION
REF: 1 / C-511
- E3 CONCRETE WASHOUT
REF: 1 / C-510
- E4 CURB INLET PROTECTION
REF: 4 / C-510
- E5 CONSTRUCTION ENTRANCE
REF: 1 / C-510
- E6 TEMPORARY EROSION CONTROL BLANKET
REF: 2 / C-510
- E7 PERMANENT TURF REINFORCEMENT MAT
REF: 2 / C-510
- E8 RIPRAP
REF: C-100
- E9 LIMITS OF DISTURBANCE

LEGEND

--- LIMITS OF DISTURBANCE

— SF — SILT FENCE

[Grid Pattern] AREA INLET PROTECTION

[CW] CONCRETE WASHOUT

[Wavy Line] CURB INLET PROTECTION

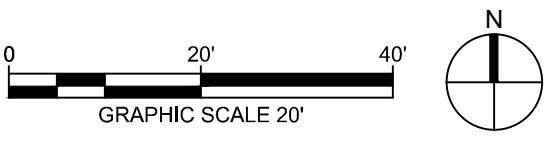
[Cross-hatch] CONSTRUCTION ENTRANCE

[Diagonal Lines] TEMPORARY EROSION CONTROL BLANKET

[Stippled] PERMANENT TURF REINFORCEMENT MAT

[Riprap Pattern] RIPRAP

1 EROSION CONTROL PLAN
1" = 20'-0"



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10/26/2022
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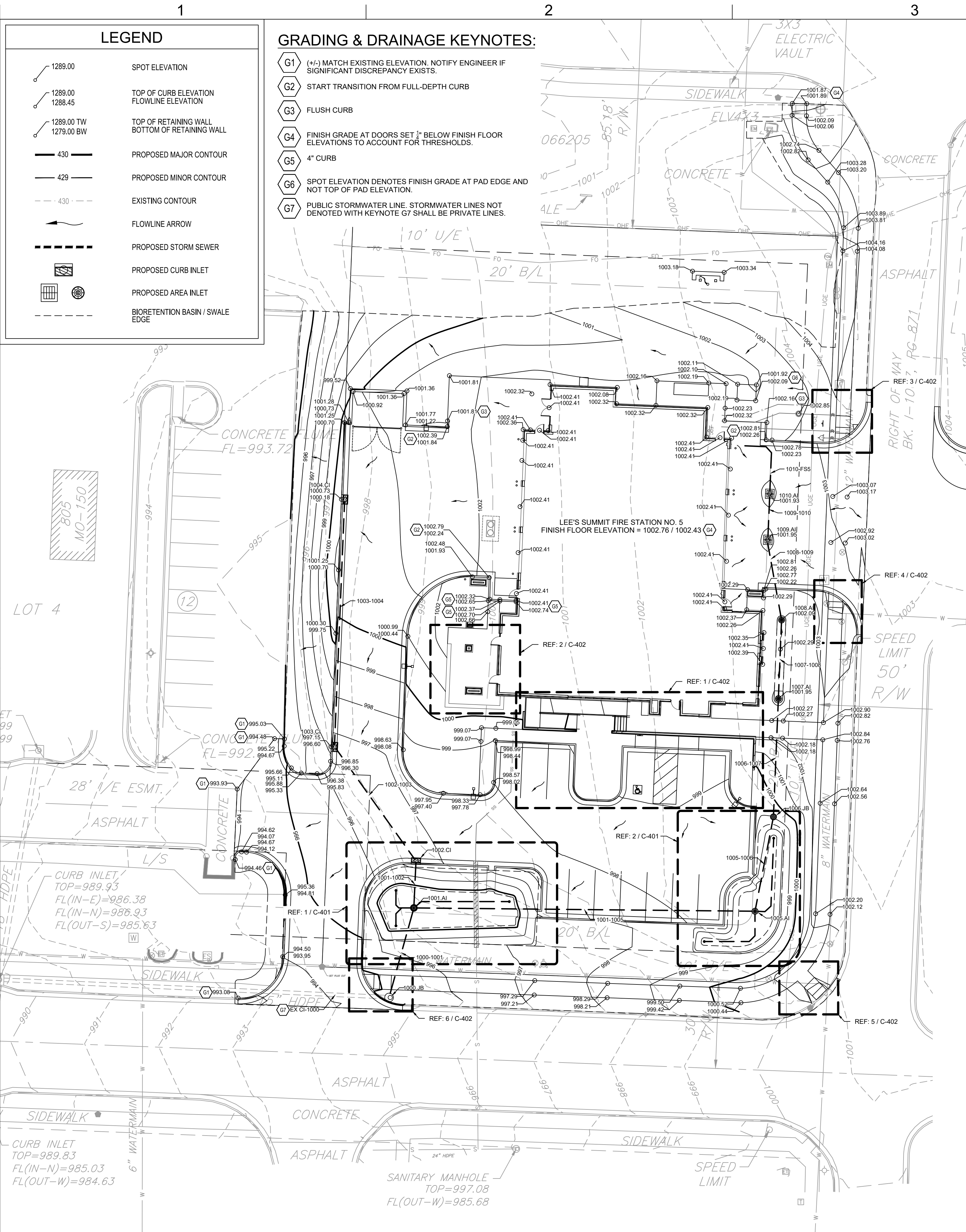
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CHKD BY: DMH

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EROSION CONTROL PLAN

C-103

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1 GRADING & DRAINAGE PLAN
1" = 20'-0"

GRADING & DRAINAGE KEYNOTES:

- G1 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G2 START TRANSITION FROM FULL-DEPTH CURB
- G3 FLUSH CURB
- G4 FINISH GRADE AT DOORS SET 3" BELOW FINISH FLOOR ELEVATIONS TO ACCOUNT FOR THRESHOLDS.
- G5 4" CURB
- G6 SPOT ELEVATION DENOTES FINISH GRADE AT PAD EDGE AND NOT TOP OF PAD ELEVATION
- G7 PUBLIC STORMWATER LINE. STORMWATER LINES NOT DENOTED WITH KEYNOTE G7 SHALL BE PRIVATE LINES.

GENERAL GRADING & DRAINAGE NOTES:

- SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SHEET. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT.
- ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GROUND ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, LOW VOLUME CHANGE MATERIAL, TOPSOIL, ETC. WHEN GRADING THE SITE.
- ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED (GREEN SPACES) SHALL BE FINISH GRADED WITH A MINIMUM OF SIX INCHES OF TOPSOIL.
- ALL EXCAVATIONS AND EMBANKMENTS SHALL COMPLY WITH THE RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1, UNLESS NOTED OTHERWISE ON THE PLANS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS OF CONNECTION POINTS AS SHOWN ON GRADING PLANS. NOTIFY ENGINEER IF DISCREPANCY EXISTS FOR DIRECTION.
- ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.
- SEE DRAWINGS C-230 AND C-231 FOR STORMWATER PROFILE DRAWINGS.

ADA NOTES:

- ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED.
- THE CONTRACTOR MUST REVIEW ALL DOCUMENTS REFERENCED IN THESE NOTES FOR ACCURACY, COMPLIANCE, AND CONSISTENCY WITH INDUSTRY GUIDELINES.
- THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ACCESSIBLE (ADA) COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, AND INTER-BUILDING ACCESS TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLE SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION.
 - PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 48-INCHES MINIMUM WIDTH. UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP MUST BE PROVIDED. ALONG THE ACCESSIBLE PATH OF TRAVEL, OPENINGS MUST NOT EXCEED 12-INCH IN WIDTH. VERTICAL CHANGES OF UP TO 1/2-INCH ARE PERMITTED ONLY IF THEY INCLUDE A 1/4-INCH BEVEL AT A SLOPE NOT STEEPER THAN 1:2. NO VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED.
 - ACCESSIBLE RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES. LEVEL LANDINGS MUST BE PROVIDED AT EACH END OF ACCESSIBLE RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES, AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES. HANDRAILS ON BOTH SIDES OF THE RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES.
 - ACCESSIBLE CURB RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED, THEY MUST NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDINGS MUST BE PROVIDED AT RAMPS TOP AT A MINIMUM OF 36-INCHES LONG (48-INCHES PREFERRED). IN ALTERATIONS, WHEN THERE IS NO LANDING AT THE TOP, FLARE SIDES SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%).
 - DOORWAY LANDING AREAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH OF TRAVEL. THIS LANDING MUST BE SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE CLEARLY PERMITTED BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCES INCORPORATED BY CODE).
 - WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ACCESSIBLE COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, THE CONTRACTOR MUST VERIFY ALL EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR IN ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS BEFORE COMMENCING. ANY CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES.
 - THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, PRIOR TO POURING CONCRETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND/OR REPLACE NON-CONFORMING CONCRETE AND/OR PAVEMENT SURFACES.
- IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.

| STORMWATER STRUCTURE TABLE | | | | | |
|----------------------------|-----------------------|--|----------------------------------|-------------------------------|--|
| STRUCTURE NAME | GRATE / RIM ELEVATION | PIPES IN | PIPES OUT | CL NORTHING & EASTING | NOTES |
| 1000.JB | 995.28 | 1000-1001, 12" INV IN = 990.90 | EX CI-1000, 15" INV OUT = 990.60 | N: 977860.16 E: 2818399.70 | EXISTING MANHOLE, SEE NOTE 1 |
| 1001.AI | 995.50 | 1001-1005, 12" INV IN = 991.71 1001-1002, 12" INV IN = 991.71 BIO UNDERDRAIN 1.1, 6" INV IN = 992.00 BIO UNDERDRAIN 1.2, 6" INV IN = 992.00 | 1000-1001, 12" INV OUT = 991.21 | N: 977891.22 E: 2818408.30 | 30" AREA INLET W/ DOME GRATE, SEE NOTE 2 REF: C-401; 1 / C-530, 5 / C-531 & 1-2 / C-532 |
| 1002.CI | 996.63 | 1002-1003, 12" INV IN = 992.06 | 1001-1002, 12" INV OUT = 991.86 | N: 977907.48 E: 2818409.02 | 2'X3" CURB INLET REF: 1 / C-530 & 1-2 / C-531 |
| 1003.CI | 996.60 | 1003-1004, 12" INV IN = 992.73 | 1002-1003, 12" INV OUT = 992.53 | N: 977947.03 E: 2818380.76 | 2'X3" CURB INLET REF: 1 / C-530 & 1-2 / C-531 |
| 1004.CI | 1000.18 | | 1003-1004, 12" INV OUT = 998.00 | N: 978032.84 E: 2818384.29 | 2'X3" CURB INLET REF: 1 / C-530 & 1-2 / C-531 |
| 1005.AI | 997.86 | 1005-1006, 12" INV IN = 993.66 BIO UNDERDRAIN 2.1, 6" INV IN = 994.03 BIO UNDERDRAIN 2.2, 6" INV IN = 994.03 | 1001-1005, 12" INV OUT = 993.16 | N: 977890.08 E: 2818526.60 | 24" AREA INLET W/ DOME GRATE, SEE NOTE 2 REF: C-401; 1 / C-530 & 2, 3, 5 / C-531 |
| 1006.JB | 999.40 | 1006-1007, 12" INV IN = 994.21 | 1005-1006, 12" INV OUT = 994.01 | N: 977922.79 E: 2818532.99 | 24" DRAIN BASIN W/ SOLID COVER REF: 1 / C-530 & 2, 4, & 5 / C-531 |
| 1007.AI | 1001.95 | 1007-1008, 12" INV IN = 995.19 | 1006-1007, 12" INV OUT = 994.99 | N: 977963.78 E: 2818534.70 | 24" AREA INLET W/ DOME GRATE REF: 1 / C-530 & 2, 3, & 5 / C-531 |
| 1008.AI | 1002.09 | 1008-1009, 12" INV IN = 995.90 | 1007-1008, 12" INV OUT = 995.70 | N: 977991.06 E: 2818535.81 | 24" AREA INLET W/ DOME GRATE REF: 1 / C-530 & 2, 3, & 5 / C-531 |
| 1009.AI | 1001.95 | 1009-1010, 12" INV IN = 996.62 | 1008-1009, 12" INV OUT = 996.42 | N: 978018.84 E: 2818531.05 | STANDARD DOUBLE GRATE INLET REF: 2 / C-530 |
| 1010.AI | 1001.93 | 1010-FS5, 6" INV IN = 997.09 | 1009-1010, 12" INV OUT = 996.89 | N: 978034.78 E: 2818531.72 | STANDARD DOUBLE GRATE INLET REF: 2 / C-530 |
| EX CI | 989.93 | EX CI-1000, 15" INV IN = 986.38 | | N: 977866.28 E: 2818263.15 | EXISTING CURB INLET, SEE NOTE 3 REF: 3-4 / C-530 |

| STORMWATER PIPE TABLE | |
|-----------------------|--|
| NAME | PIPE DESCRIPTION |
| BIO UNDERDRAIN 2.2 | 28.85 L.F. OF PERFORATED 6" PVC @ 0.5% |
| BIO UNDERDRAIN 2.1 | 25.92 L.F. OF PERFORATED 6" PVC @ 0.5% |
| BIO UNDERDRAIN 1.2 | 17.72 L.F. OF PERFORATED 6" PVC @ 0.5% |
| BIO UNDERDRAIN 1.1 | 32.74 L.F. OF PERFORATED 6" PVC @ 0.5% |
| EX CI-1000 | 133.81 LF OF 15" HDPE @ 3.16% |
| 1000-1001 | 31.21 LF OF 12" HDPP @ 1.00% |
| 1001-1002 | 14.52 LF OF 12" HDPP @ 1.00% |
| 1001-1005 | 116.32 LF OF 12" HDPP @ 1.25% |
| 1002-1003 | 47.13 LF OF 12" HDPP @ 1.00% |
| 1003-1004 | 84.45 LF OF 12" HDPP @ 3.88% |
| 1005-1006 | 31.33 LF OF 12" HDPP @ 1.12% |
| 1006-1007 | 39.03 LF OF 12" HDPP @ 2.00% |
| 1007-1008 | 25.31 LF OF 12" HDPP @ 2.00% |
| 1008-1009 | 26.08 LF OF 12" HDPP @ 2.00% |
| 1009-1010 | 13.70 LF OF 12" HDPP @ 2.00% |
| 1010-FS5 | 23.28 LF OF 6" HDPE @ 1.13% |

NOTES

- CONTRACTOR TO REUSE EXISTING MANHOLE, IF POSSIBLE. SEE C-102. GROUT AND REPAIR EXISTING PIPE PENETRATIONS NO LONGER NECESSARY PER CITY OF LEE'S SUMMIT, MO STANDARDS. NOTIFY ENGINEER IF STRUCTURE IS UNABLE TO BE REUSED. EXISTING INVERT ELEVATION NOT ASSUMED BASED ON LINEAR INTERPOLATION. CONTRACTOR TO FIELD VERIFY AND CONTACT ENGINEER IF DISCREPANCY EXISTS.
- BIORETENTION BASIN OUTLET CONTROL STRUCTURE. SEE C-401.
- THIS STRUCTURE HAS ADDITIONAL EXISTING PIPES NOT SHOWN IN THIS STRUCTURE TABLE.

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100% CONSTRUCTION DOCUMENT DRAWINGS

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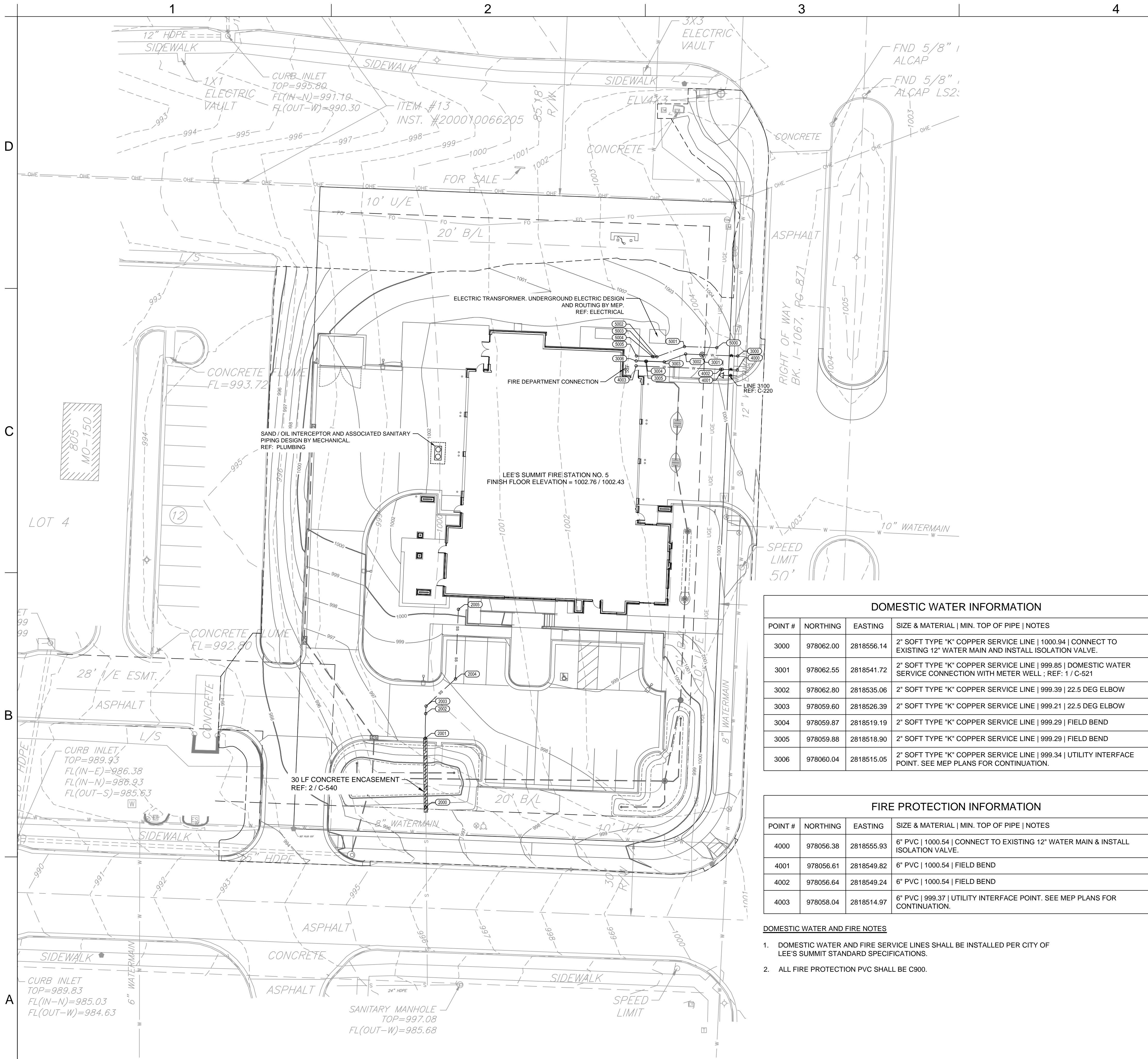
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GRADING & DRAINAGE PLAN

C-104

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| DOMESTIC WATER INFORMATION | | | | |
|----------------------------|-----------|------------|--|--|
| POINT # | NORTHING | EASTING | SIZE & MATERIAL MIN. TOP OF PIPE NOTES | |
| 3000 | 978062.00 | 2818556.14 | 2" SOFT TYPE "K" COPPER SERVICE LINE 1000.94 CONNECT TO EXISTING 12" WATER MAIN AND INSTALL ISOLATION VALVE. | |
| 3001 | 978062.55 | 2818541.72 | 2" SOFT TYPE "K" COPPER SERVICE LINE 999.85 DOMESTIC WATER SERVICE CONNECTION WITH METER WELL ; REF: 1 / C-521 | |
| 3002 | 978062.80 | 2818535.06 | 2" SOFT TYPE "K" COPPER SERVICE LINE 999.39 22.5 DEG ELBOW | |
| 3003 | 978059.60 | 2818526.39 | 2" SOFT TYPE "K" COPPER SERVICE LINE 999.21 22.5 DEG ELBOW | |
| 3004 | 978059.87 | 2818519.19 | 2" SOFT TYPE "K" COPPER SERVICE LINE 999.29 FIELD BEND | |
| 3005 | 978059.88 | 2818518.90 | 2" SOFT TYPE "K" COPPER SERVICE LINE 999.29 FIELD BEND | |
| 3006 | 978060.04 | 2818515.05 | 2" SOFT TYPE "K" COPPER SERVICE LINE 999.34 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION. | |

| FIRE PROTECTION INFORMATION | | | | |
|-----------------------------|-----------|------------|--|--|
| POINT # | NORTHING | EASTING | SIZE & MATERIAL MIN. TOP OF PIPE NOTES | |
| 4000 | 978056.38 | 2818555.93 | 6" PVC 1000.54 CONNECT TO EXISTING 12" WATER MAIN & INSTALL ISOLATION VALVE. | |
| 4001 | 978056.61 | 2818549.82 | 6" PVC 1000.54 FIELD BEND | |
| 4002 | 978056.64 | 2818549.24 | 6" PVC 1000.54 FIELD BEND | |
| 4003 | 978058.04 | 2818514.97 | 6" PVC 999.37 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION. | |

- DOMESTIC WATER AND FIRE NOTES**
- DOMESTIC WATER AND FIRE SERVICE LINES SHALL BE INSTALLED PER CITY OF LEE'S SUMMIT STANDARD SPECIFICATIONS.
 - ALL FIRE PROTECTION PVC SHALL BE C900.

GENERAL UTILITY NOTES:

UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, CODES, AND DETAILS OF THE CITY OF LEE'S SUMMIT, MO AND UTILITY PROVIDERS.

- INSTALLATION, BEDDING, & TESTING OF UTILITY INSTALLATIONS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
- STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL PLUMBING CONTRACTOR.
- CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER, ENGINEER, AND CITY OF LEE'S SUMMIT, MO UPON COMPLETION OF ALL UTILITIES.
- UTILITY TRENCH BACKFILL SHALL BE PER PROJECT SPECIFICATIONS.
- UTILITY PIPE LENGTHS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ACTUAL LENGTHS OF PIPE REQUIRED PRIOR TO BIDDING & INSTALLING UTILITIES.
- UTILITY CONTRACTOR TO COORDINATE BUILDING CONNECTION POINTS WITH PLUMBING PLAN AND BUILDING CONTRACTOR.
- CONTRACTOR TO ADJUST EXISTING WATER VALVES TO PROPOSED GRADE, AS REQUIRED.
- FIELD BEND INFORMATION IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO FOLLOW PIPE MANUFACTURER'S RECOMMENDATIONS FOR FIELD ADJUSTMENTS OF PIPE BETWEEN FITTINGS.

| SANITARY SEWER INFORMATION | | | | |
|----------------------------|-----------|------------|---|--|
| POINT # | NORTHING | EASTING | SIZE & MATERIAL SLOPE DOWNSTREAM INV. EL. NOTES | |
| 2000 | 977879.55 | 2818429.96 | 4" PVC N/A 989.58 CONNECTION TO EXISTING SERVICE. SEE SANITARY SEWER NOTE 2 | |
| 2001 | 977907.40 | 2818429.72 | 4" PVC 4.32% 990.78 FIELD BEND | |
| 2002 | 977917.33 | 2818429.88 | 4" PVC 4.32% 991.21 FIELD BEND | |
| 2003 | 977920.39 | 2818430.01 | 4" PVC 4.32% 991.34 45 DEG ELBOW | |
| 2004 | 977931.40 | 2818441.95 | 4" PVC 13.19% 993.49 45 DEG ELBOW | |
| 2005 | 977959.53 | 2818443.11 | 4" PVC 13.19% 997.20 CLEANOUT UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION | |

- SANITARY SEWER NOTES**
- ALL PVC PIPE SHALL BE SDR 26.
 - APPROXIMATE LOCATION OF EXISTING SANITARY SEWER STUB (PER CITY AS-BUILTS). CONTRACTOR TO FIELD VERIFY PRIOR TO INSTALLING UPSTREAM PIPE.

| GAS INFORMATION | | | | |
|-----------------|-----------|------------|--|--|
| POINT # | NORTHING | EASTING | FINISHED GRADE NOTES | |
| 5000 | 978065.39 | 2818547.67 | 1003.26 SEE GAS NOTE 2 | |
| 5001 | 978065.83 | 2818534.58 | 1002.30 22.5 DEG ELBOW | |
| 5002 | 978061.70 | 2818523.44 | 1002.22 22.5 DEG ELBOW | |
| 5003 | 978061.75 | 2818522.21 | 1002.23 FIELD BEND | |
| 5004 | 978061.77 | 2818521.63 | 1002.24 FIELD BEND | |
| 5005 | 978062.04 | 2818515.13 | 1002.30 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION. | |

- GAS NOTES**
- GAS LINE DESIGN AND INSTALLATION PER SERVICE PROVIDER.
 - EXISTING GAS NOT PICKED UP ON SITE SURVEY. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR SERVICING SITE WITH NATURAL GAS.

| UTILITY LEGEND | |
|----------------|-------------------------------------|
| G | PROPOSED GAS |
| SS | PROPOSED SANITARY SEWER |
| --- | PROPOSED STORM SEWER |
| | PROPOSED CURB INLET |
| | PROPOSED STORMWATER MANHOLE |
| | PROPOSED AREA INLET |
| W | PROPOSED WATER |
| | PROPOSED ISOLATION VALVE |
| | PROPOSED FIRE HYDRANT |
| FDC | PROPOSED FIRE DEPARTMENT CONNECTION |

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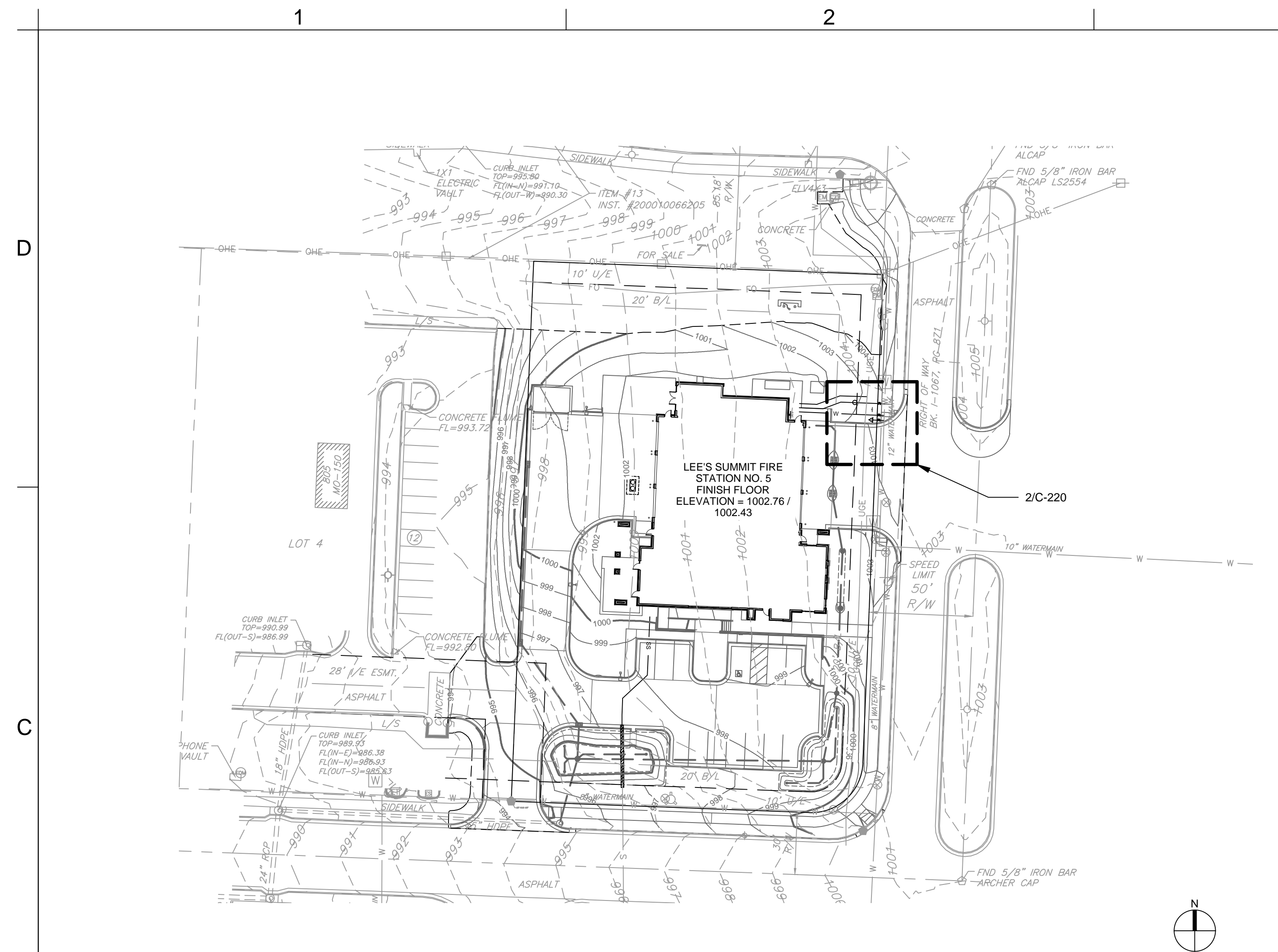
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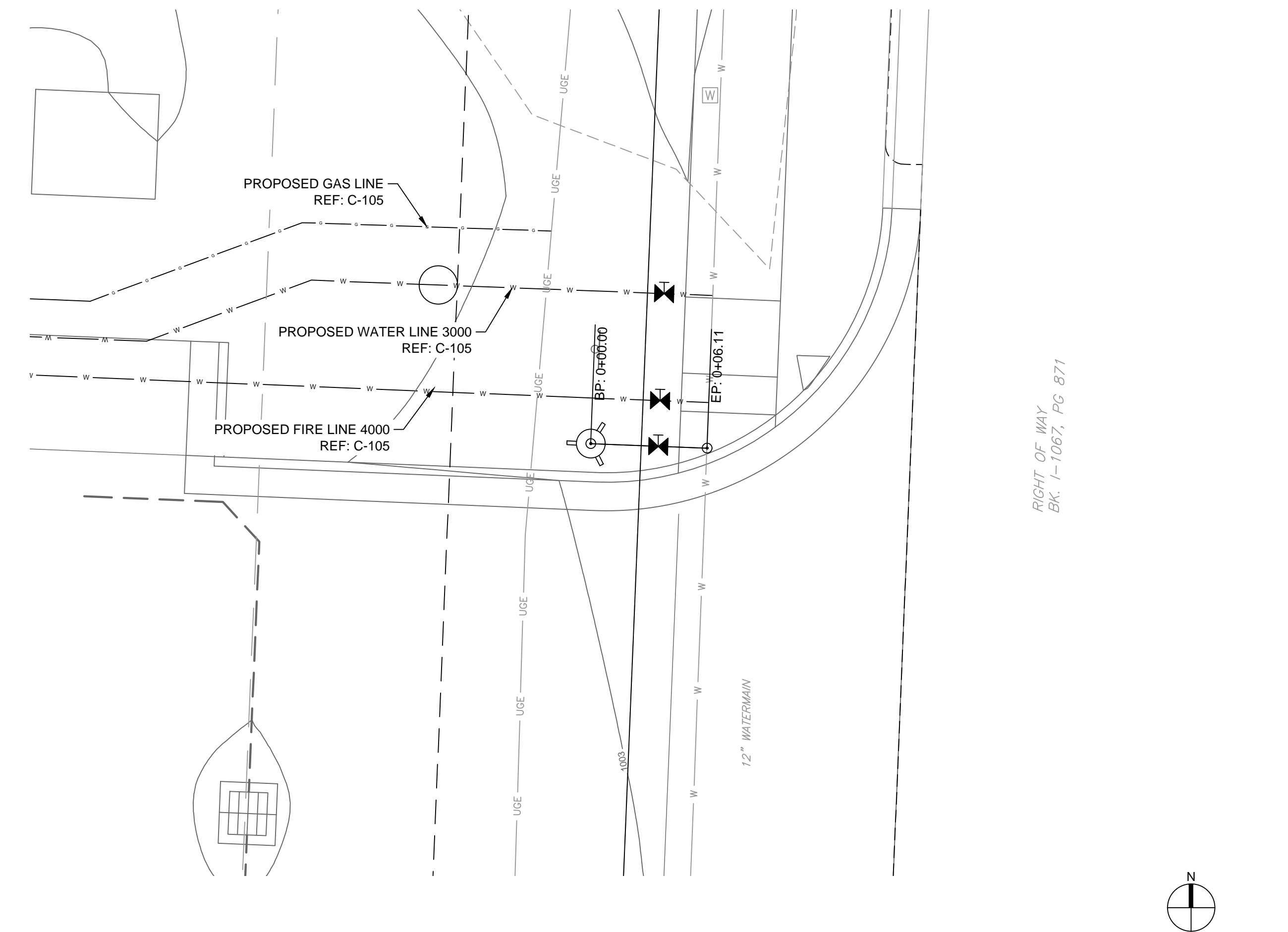
UTILITY PLAN

C-105

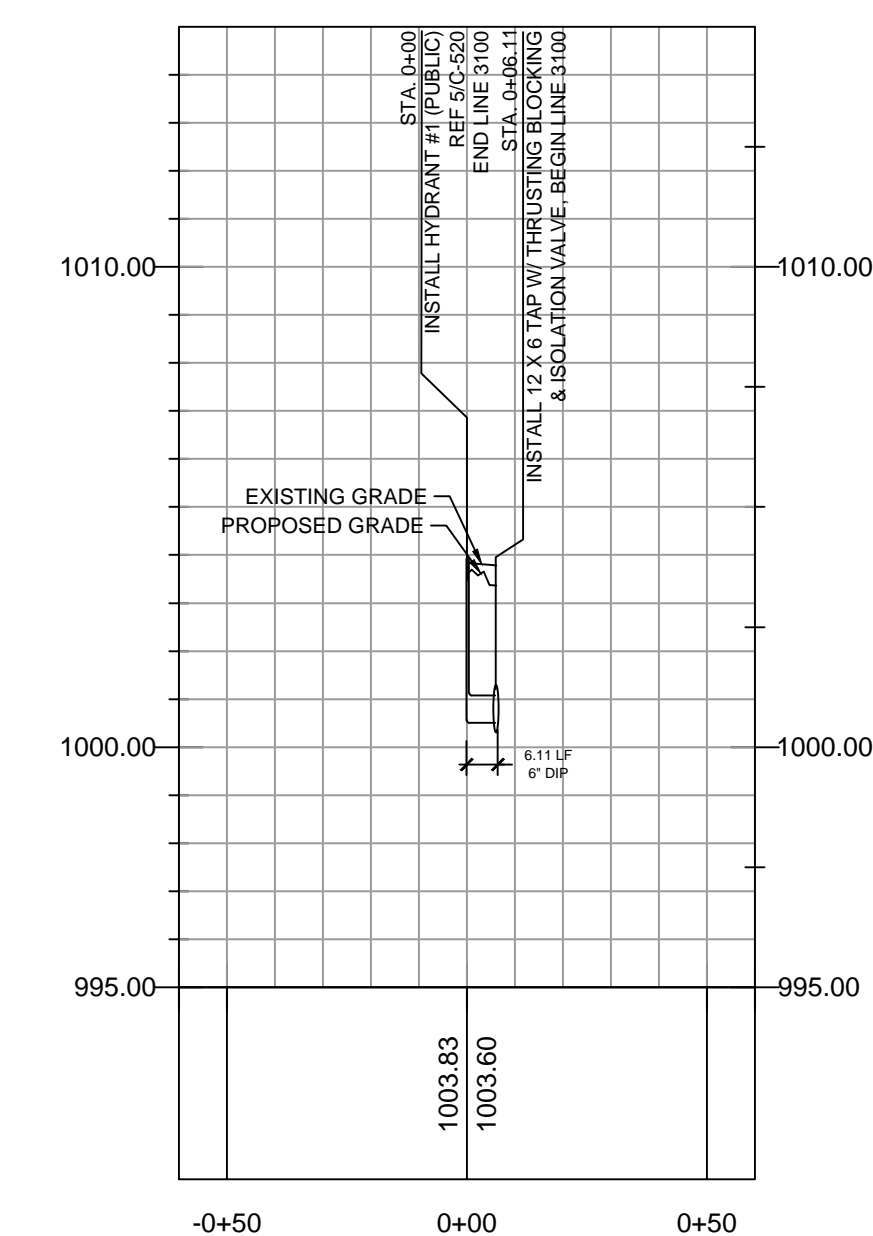
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1 FIRE PROTECTION LINE PLAN VIEW
SCALE: HORIZONTAL 1"=40'



2 FIRE PROTECTION LINE PLAN VIEW ENLARGEMENT
SCALE: HORIZONTAL 1"=5'



3 FIRE PROTECTION LINE 3100 PROFILE

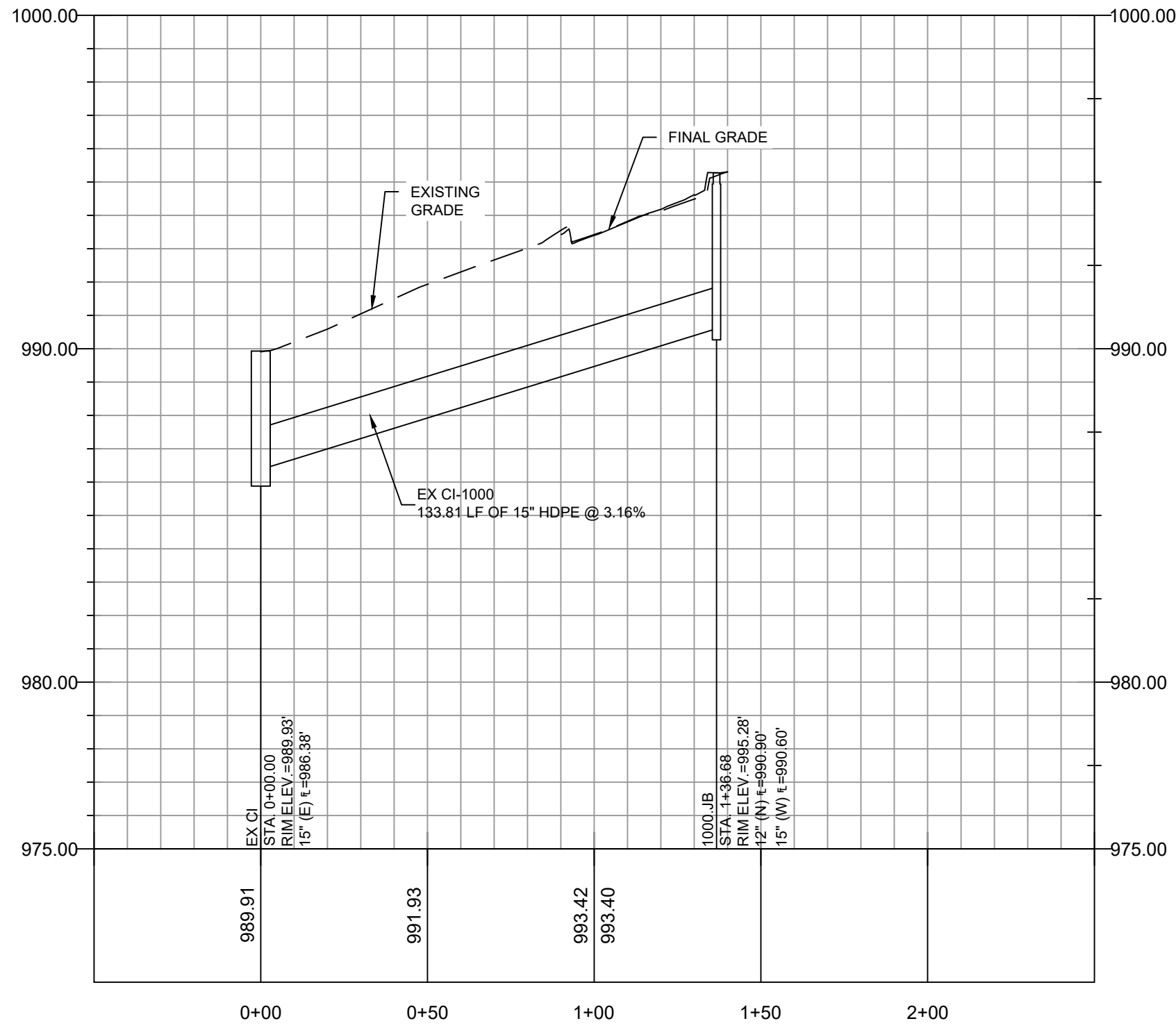
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1 EX CI - 1000.JB PROFILE

SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL: 1"=4'

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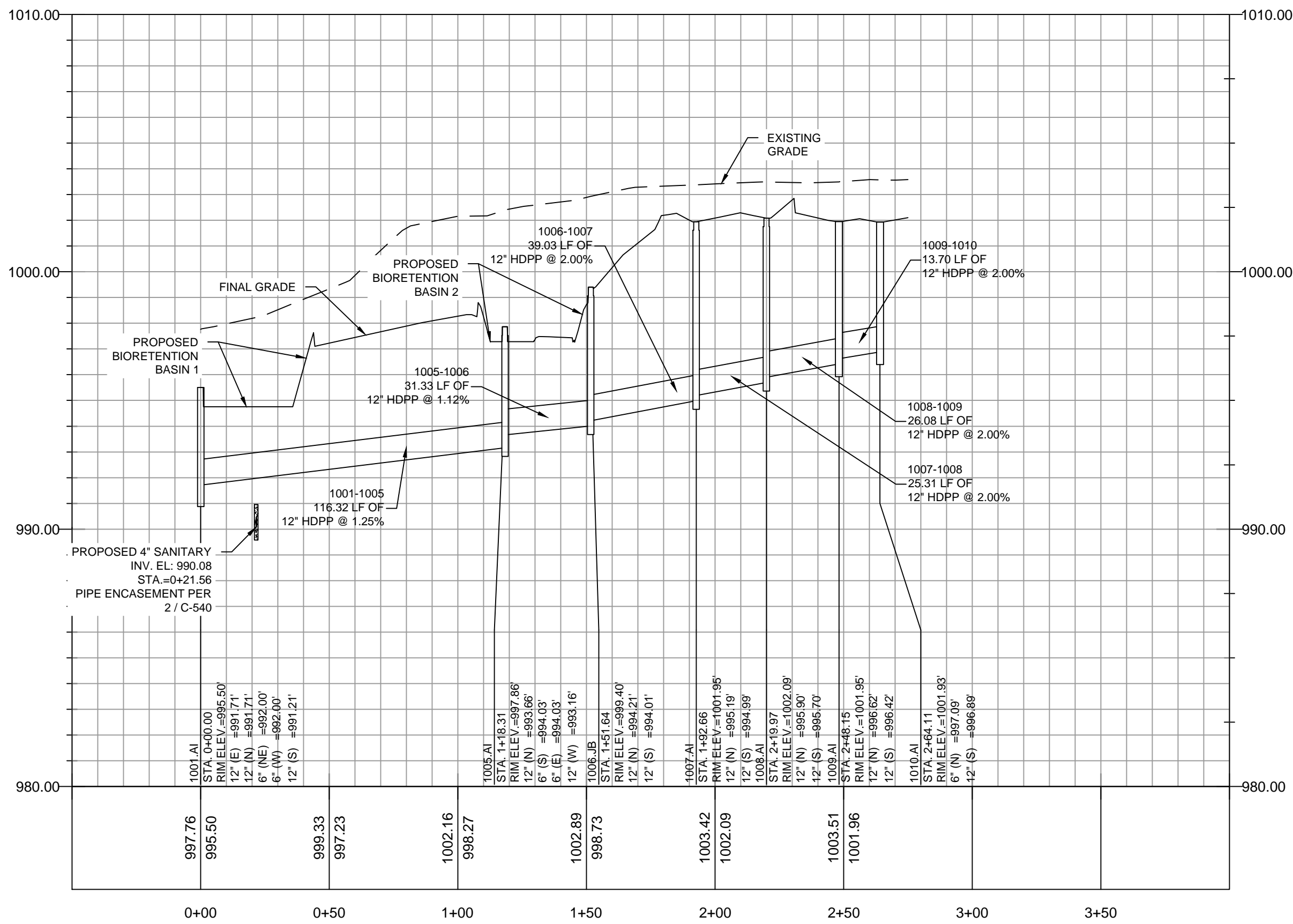
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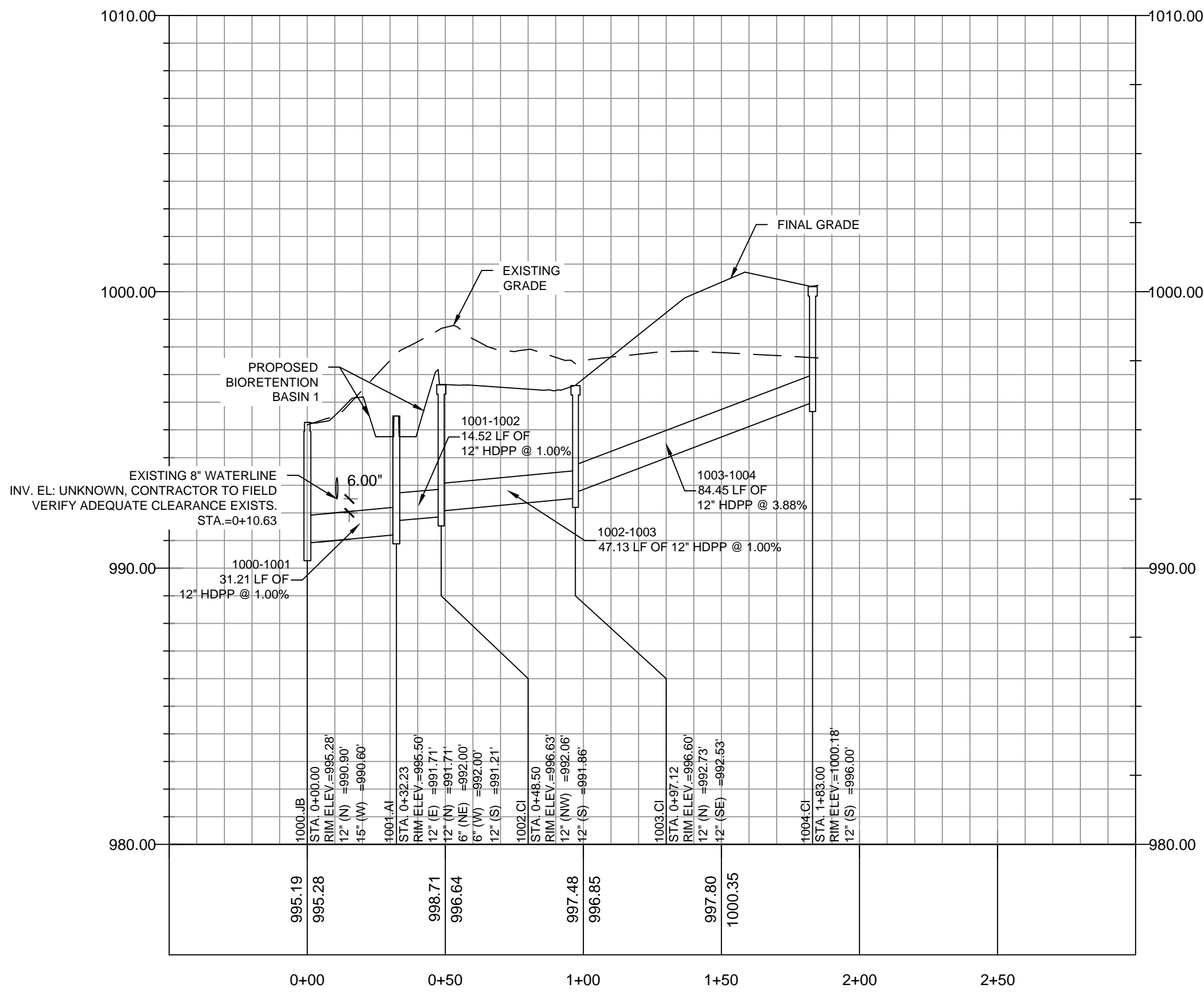
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1 1001.AI - 1010.AI PROFILE
SCALE: HORIZONTAL 1"=40' SCALE:VERTICAL: 1"=4'



2 1000.JB - 1004.CI PROFILE
SCALE: HORIZONTAL 1"=40' SCALE:VERTICAL: 1"=4'



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| DRAWN BY: | HFL |
| CHKD BY: | DMH |

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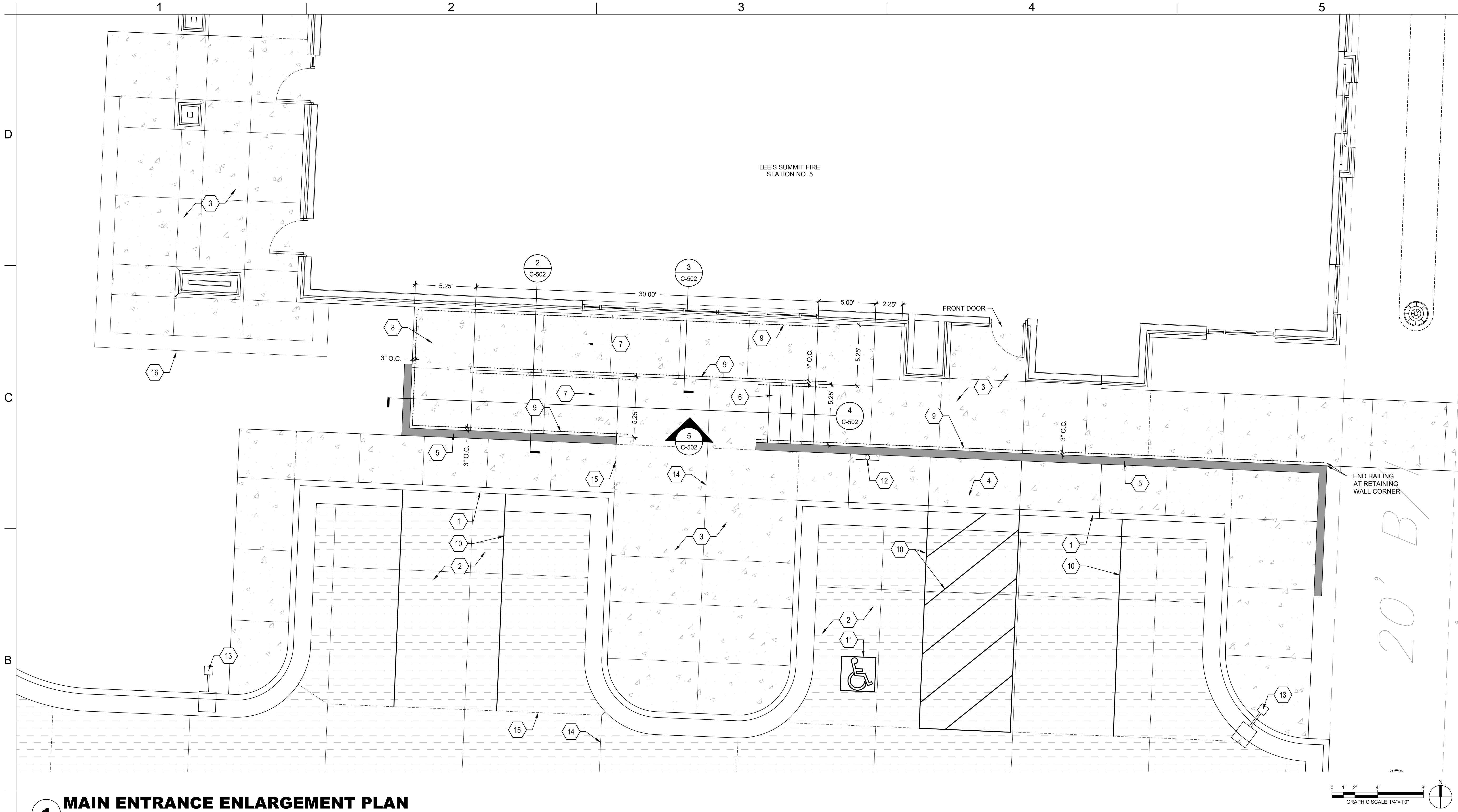
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1 MAIN ENTRANCE ENLARGEMENT PLAN
1/4" = 1'-0"

KEYNOTES

- | | |
|--|--|
| 1 TYP. CURB & GUTTER LEE'S SUMMIT STANDARD DETAIL REF: 3/C-503 | 9 GALVANIZED RAILING REF: 2, 3, 4, 5/C502 |
| 2 TYP. CONCRETE PAVING REF: 1/C-500 | 10 PAVEMENT STRIPING REF: 3/C-500 |
| 3 CONCRETE SIDEWALK PAVING REF: 1/C-504 | 11 ADA PAVEMENT MARKING REF: 4/C-500 |
| 4 ADA SIDEWALK RAMP REF: 3/C-504 | 12 ADA PARKING SIGN REF: 5/C-500 |
| 5 RETAINING WALL, SMOOTH FINISH REF: C-402, C-502 & STRUCTURAL | 13 TYP. AREA LIGHTING REF: 2/C-503 |
| 6 CONCRETE STEPS REF: 2/C-503 | 14 CONSTRUCTION JOINT REF: 2/C-503 |
| 7 ADA RAMP | 15 ISOLATION JOINT REF: 2/C-503 |
| 8 ADA RAMP LANDING | 16 SCREEN WALL REF: ARCHITECTURE |

LEGEND

- | | |
|--|----------------------|
| | TYP. CURB & GUTTER |
| | TYP. CONCRETE PAVING |
| | ASPHALT PATCH |
| | CONCRETE SIDEWALK |
| | MISSOURI RIVER ROCK |
| | RETAINING WALL |

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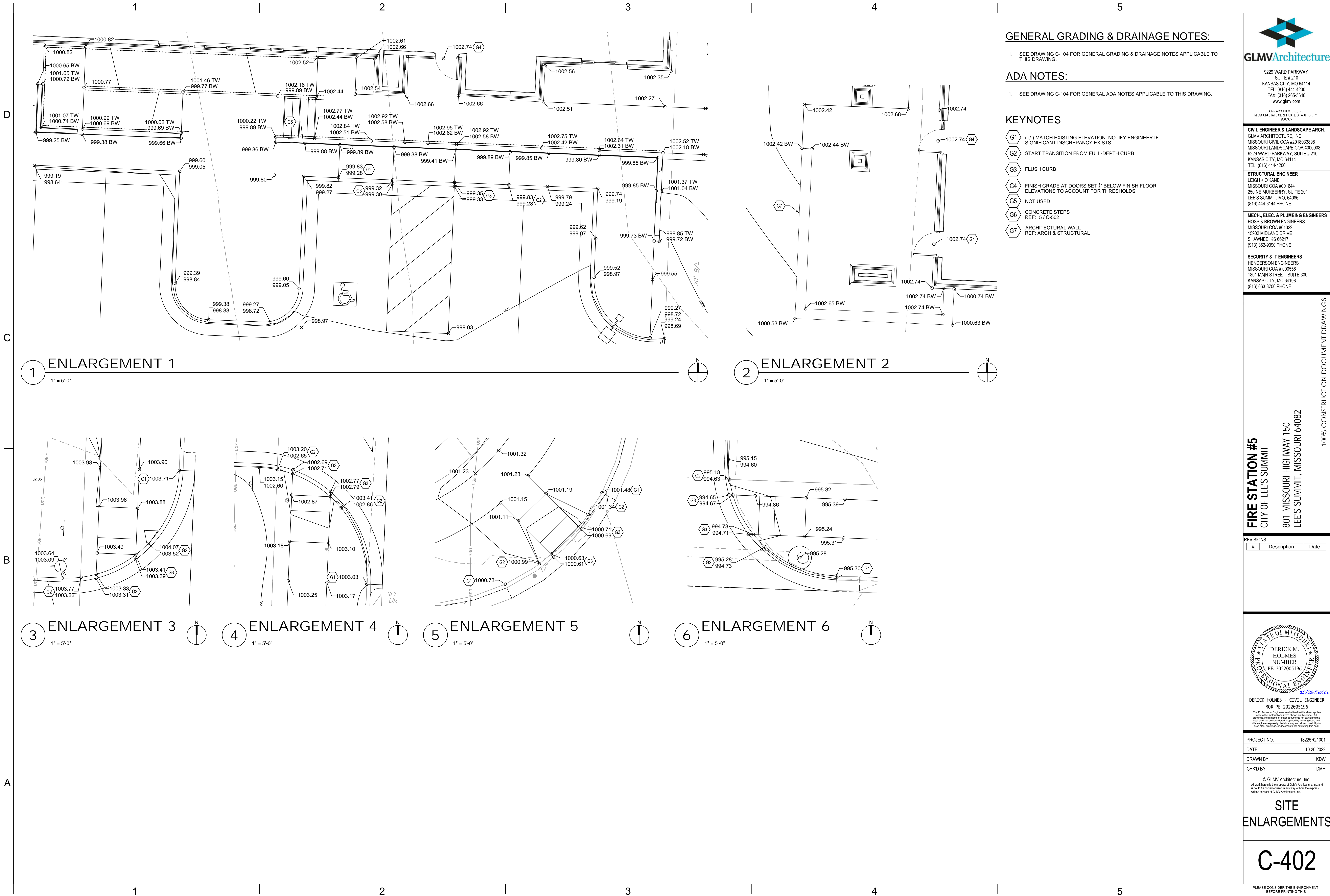
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**SITE
ENLARGEMENTS**

C-400



GENERAL GRADING & DRAINAGE NOTES:

1. SEE DRAWING C-104 FOR GENERAL GRADING & DRAINAGE NOTES APPLICABLE TO THIS DRAWING.

ADA NOTES:

1. SEE DRAWING C-104 FOR GENERAL ADA NOTES APPLICABLE TO THIS DRAWING.

KEYNOTES

- G1 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G2 START TRANSITION FROM FULL-DEPTH CURB
- G3 FLUSH CURB
- G4 FINISH GRADE AT DOORS SET 1/2" BELOW FINISH FLOOR ELEVATIONS TO ACCOUNT FOR THRESHOLDS.
- G5 NOT USED
- G6 CONCRETE STEPS
REF: 5 / C-502
- G7 ARCHITECTURAL WALL
REF: ARCH & STRUCTURAL

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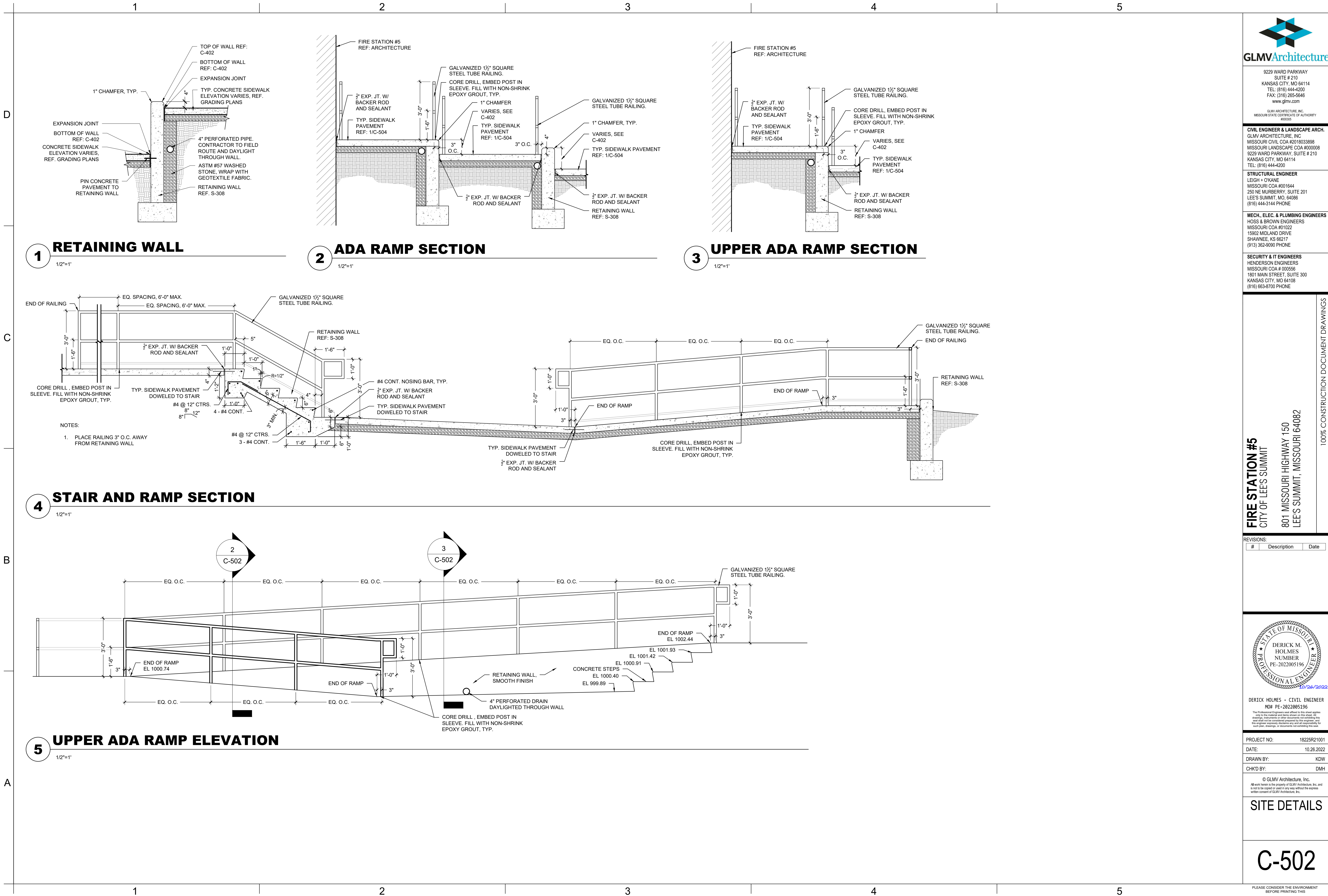
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SITE ENLARGEMENTS

C-402

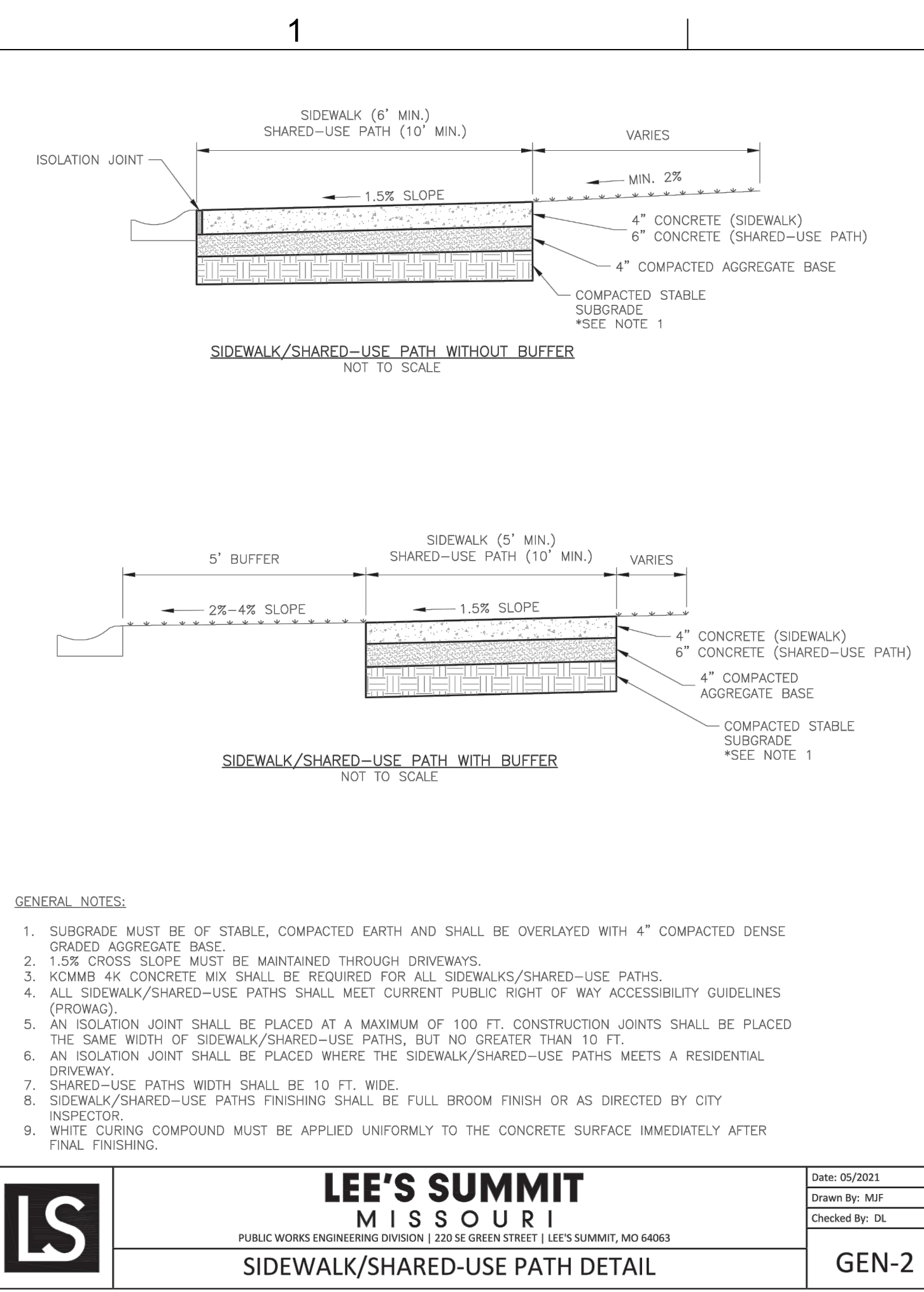
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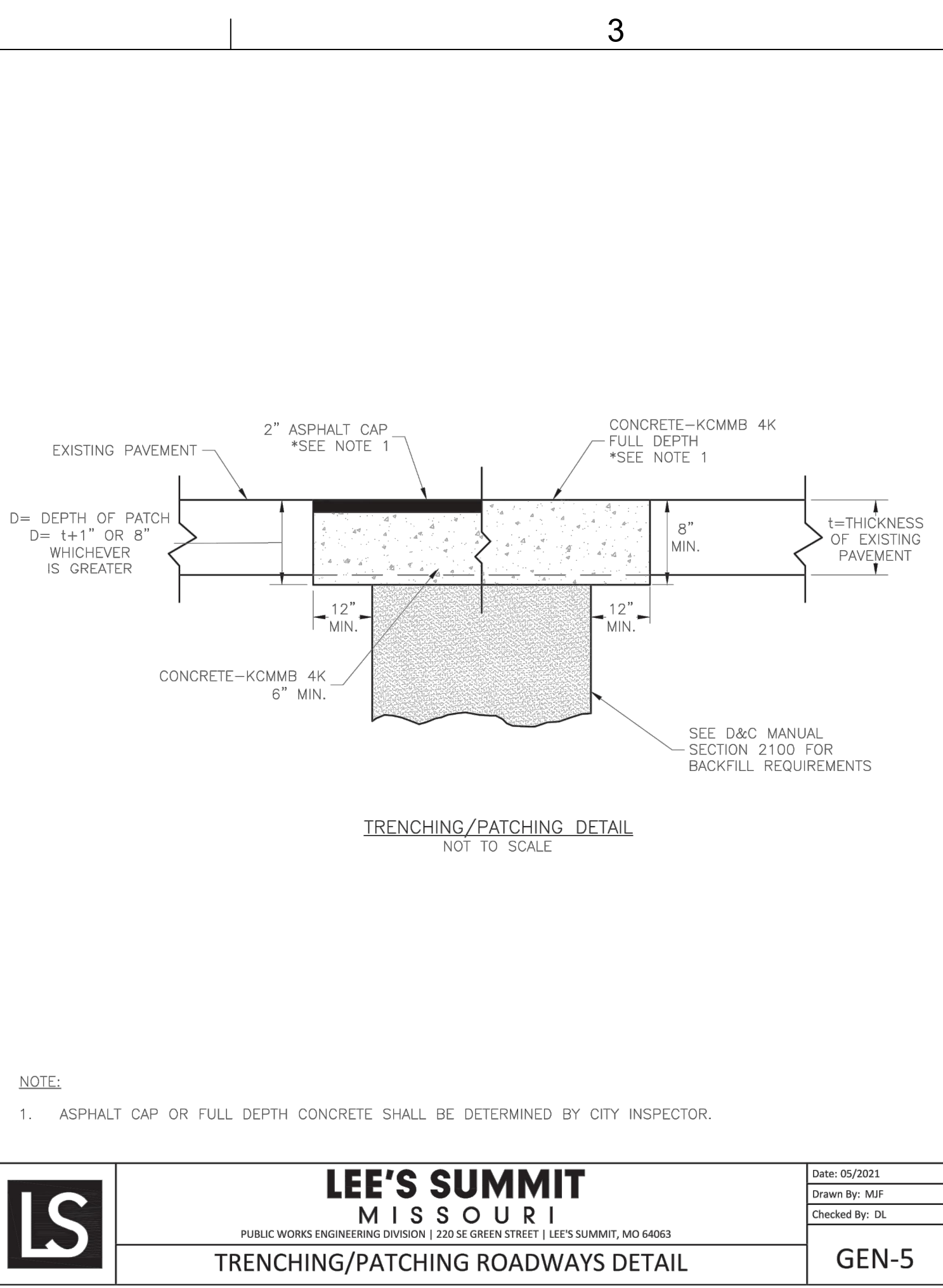
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C



LEE'S SUMMIT TYPICAL SIDEWALK

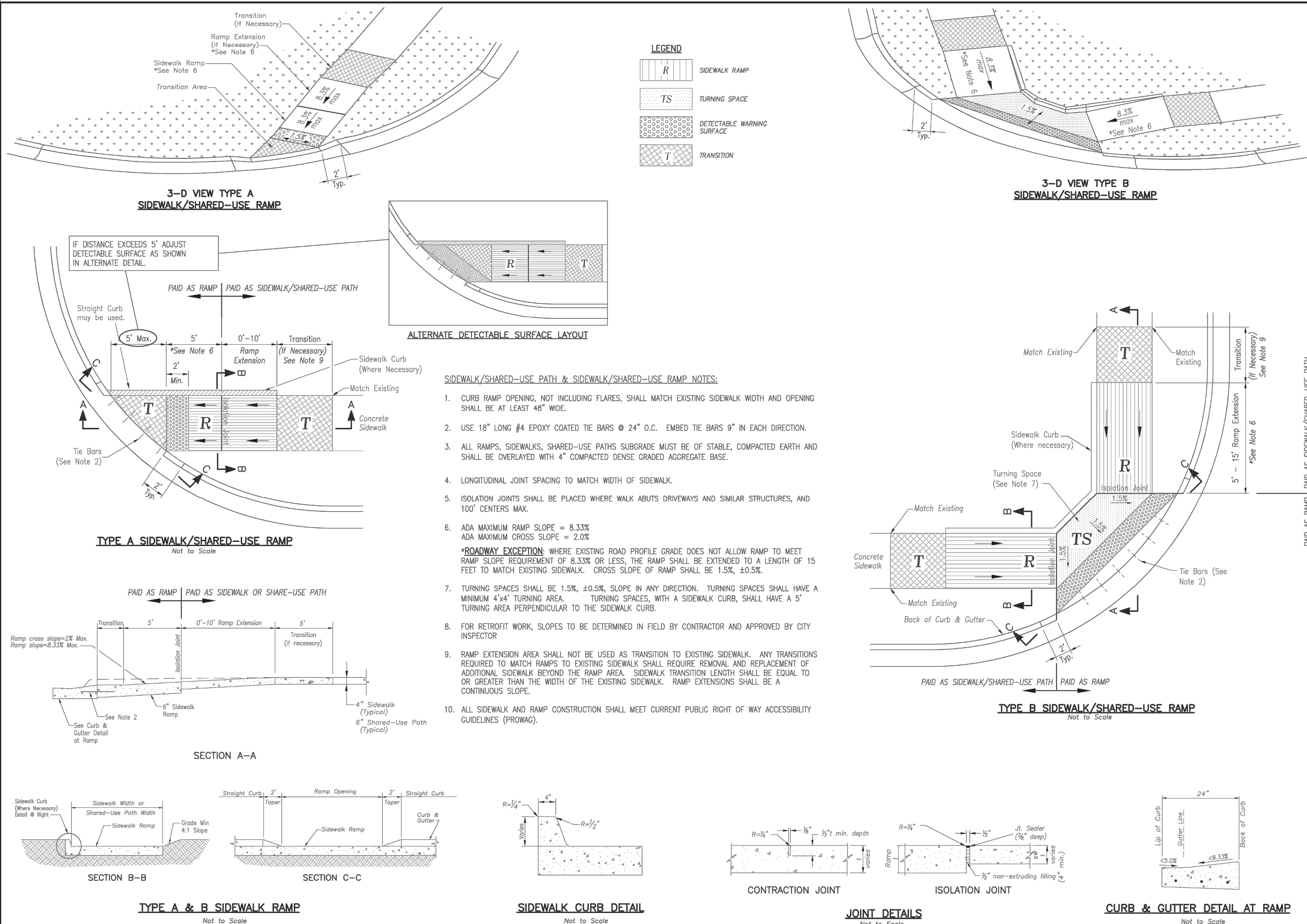
2



LEE'S SUMMIT TYPICAL ROADWAY PATCH

B

A



LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT

3

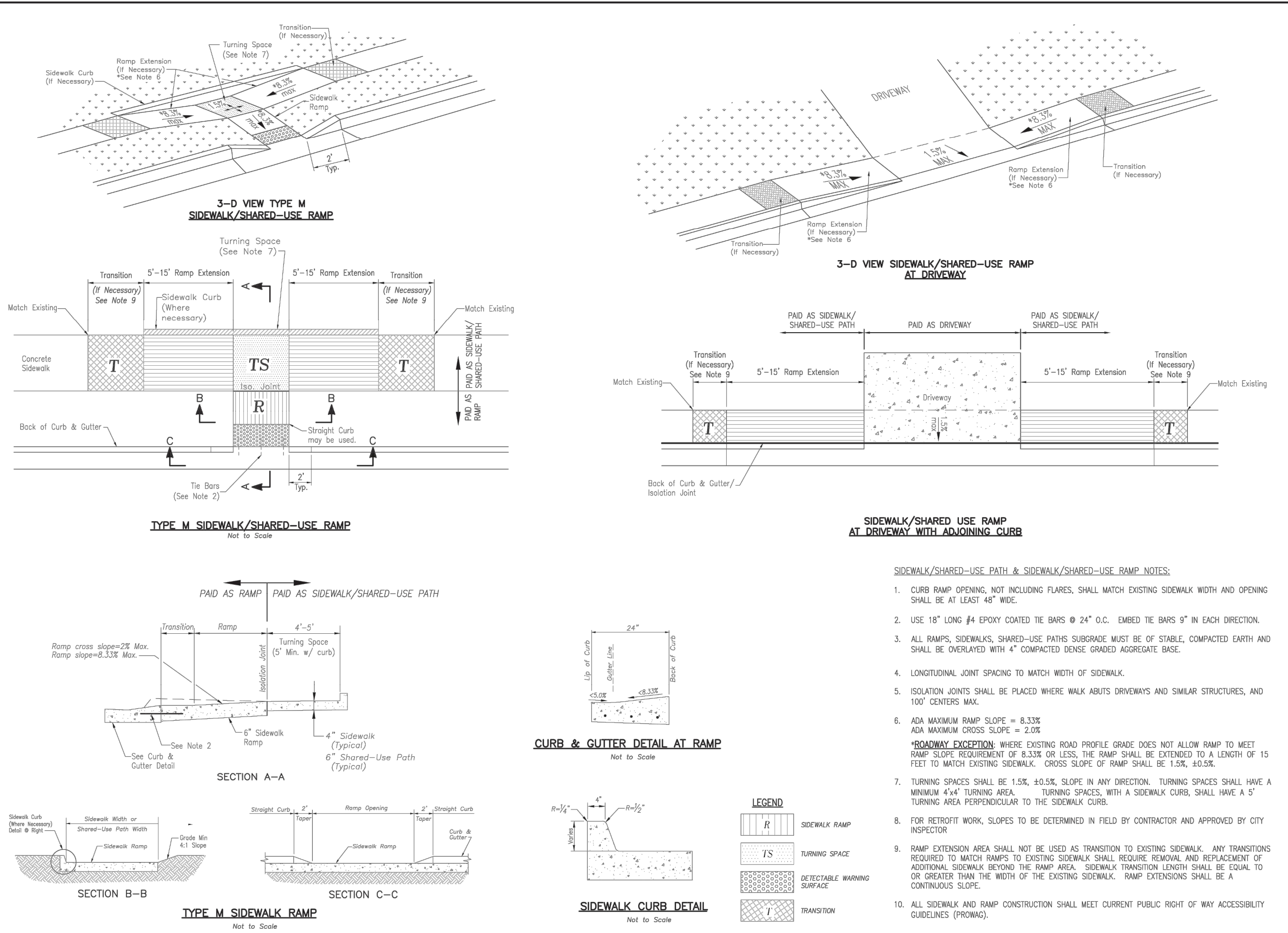
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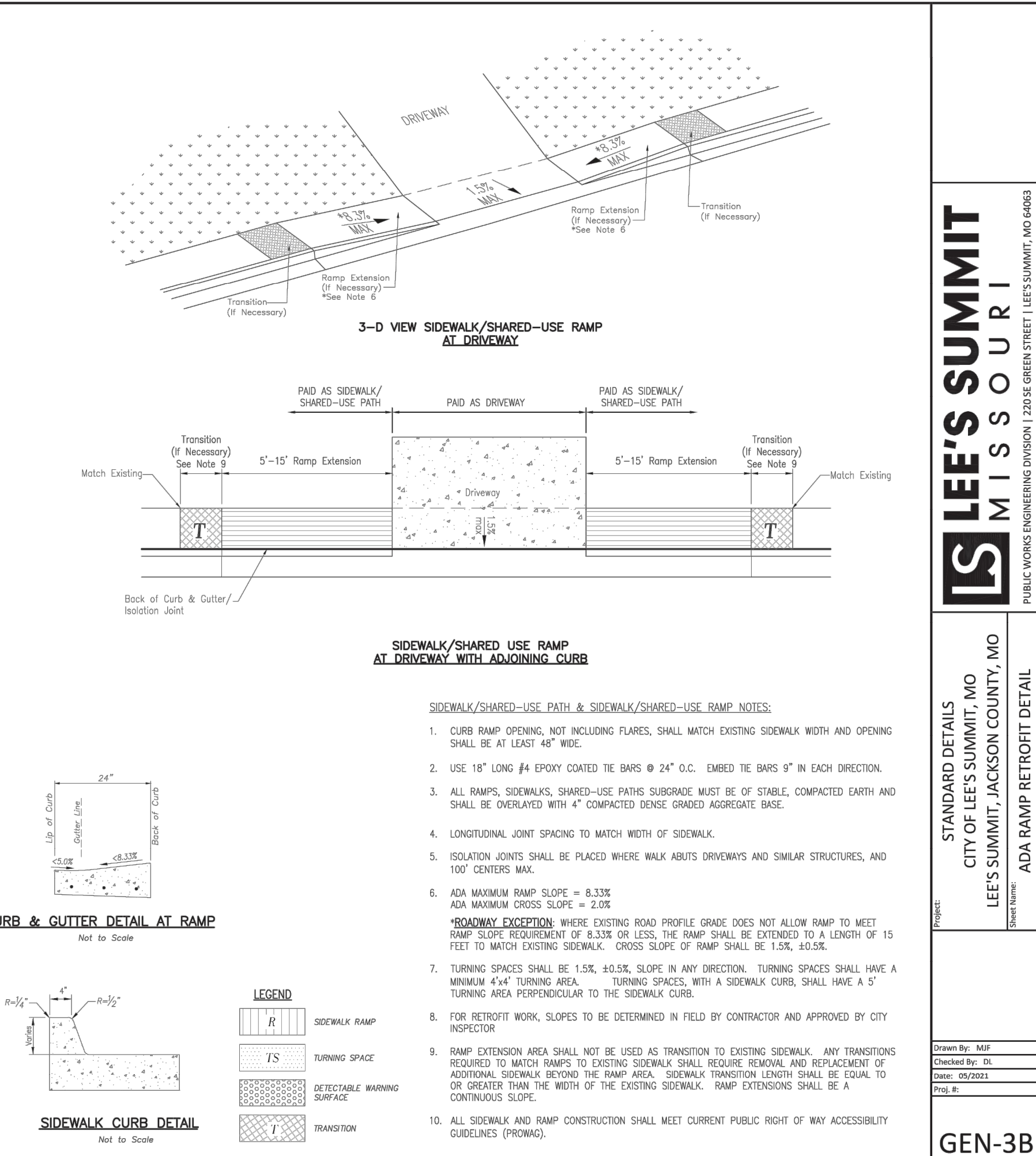


LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT

5

5

5



LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT

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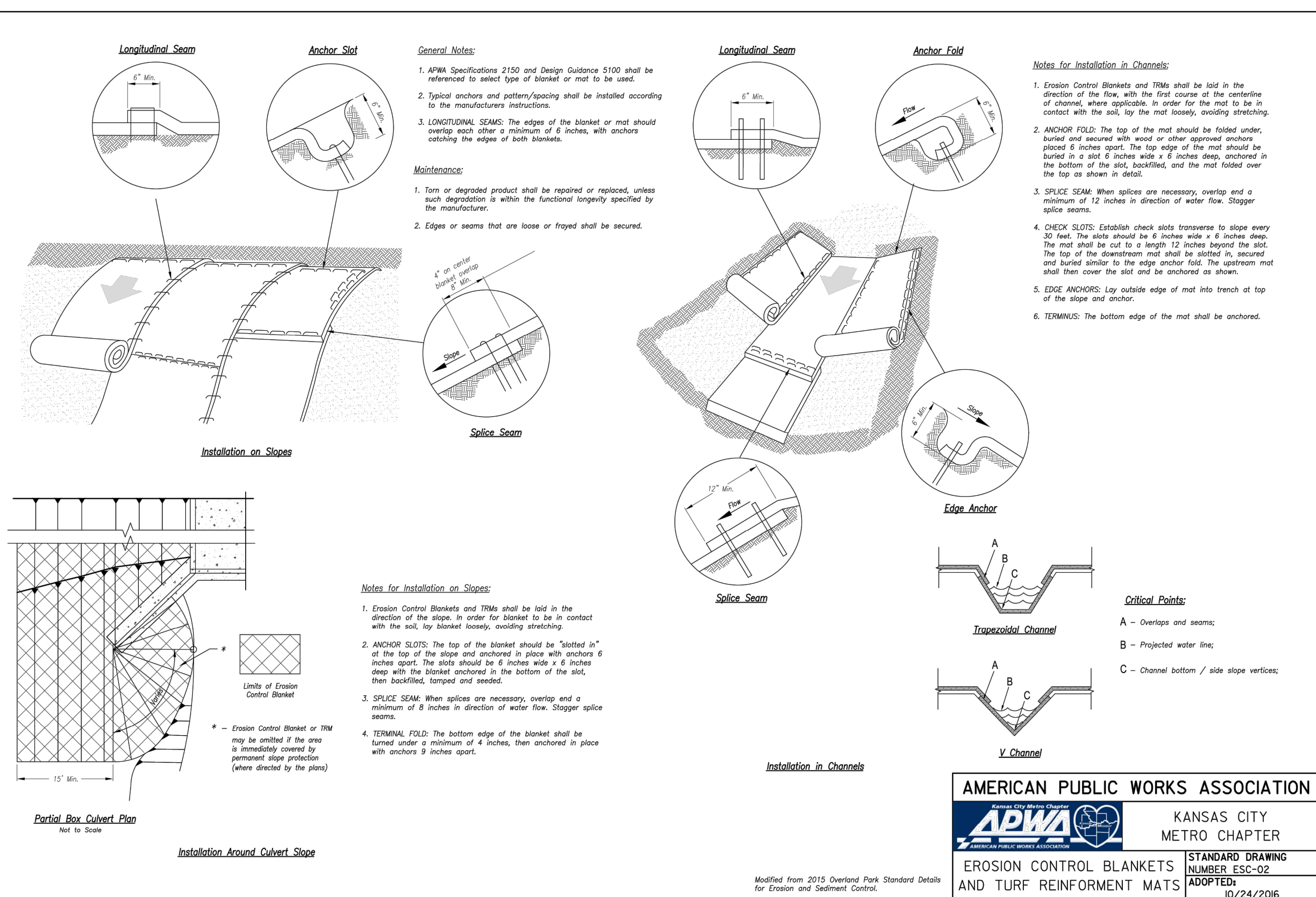
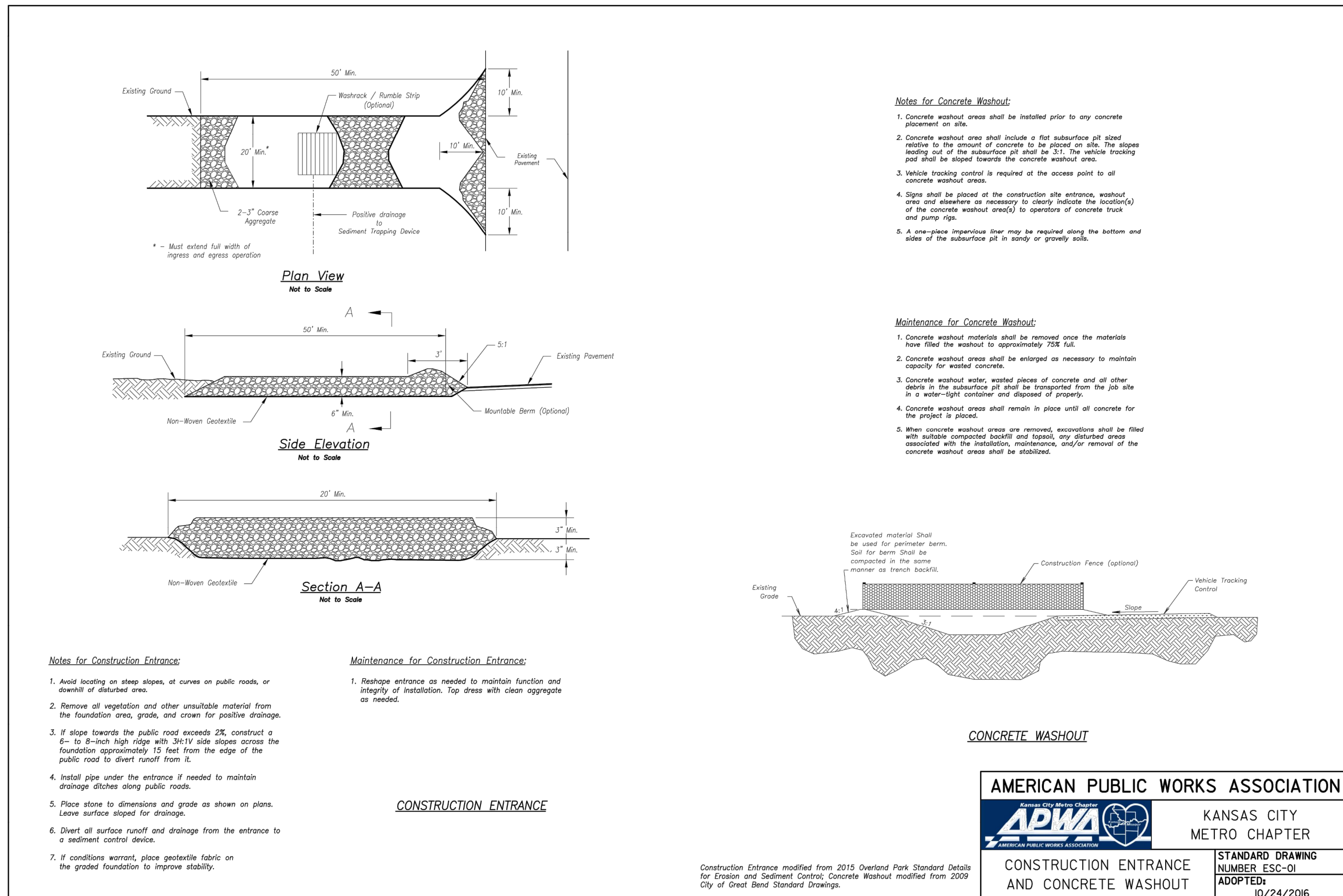
SITE DETAILS

C-504

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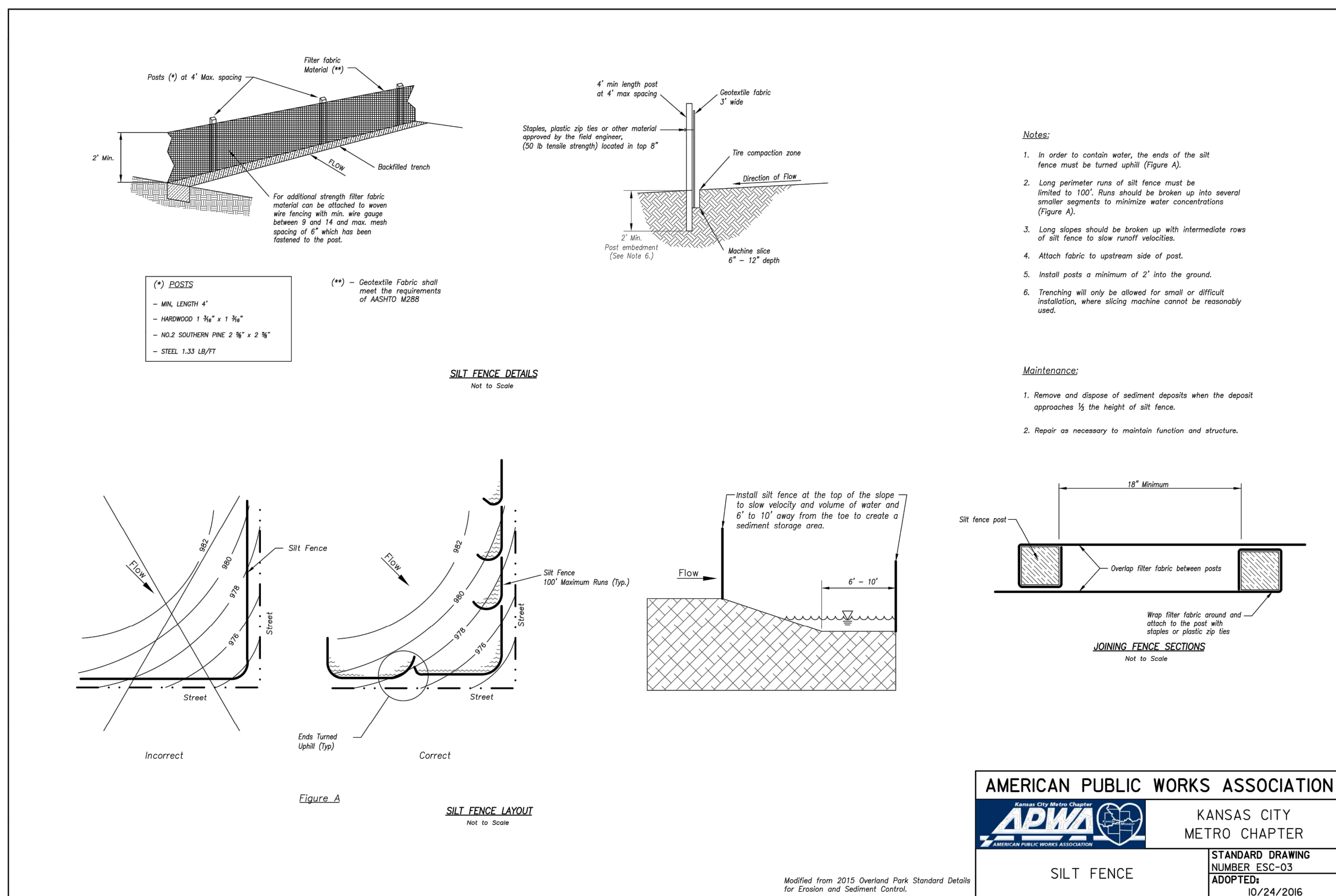


C

2

EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS

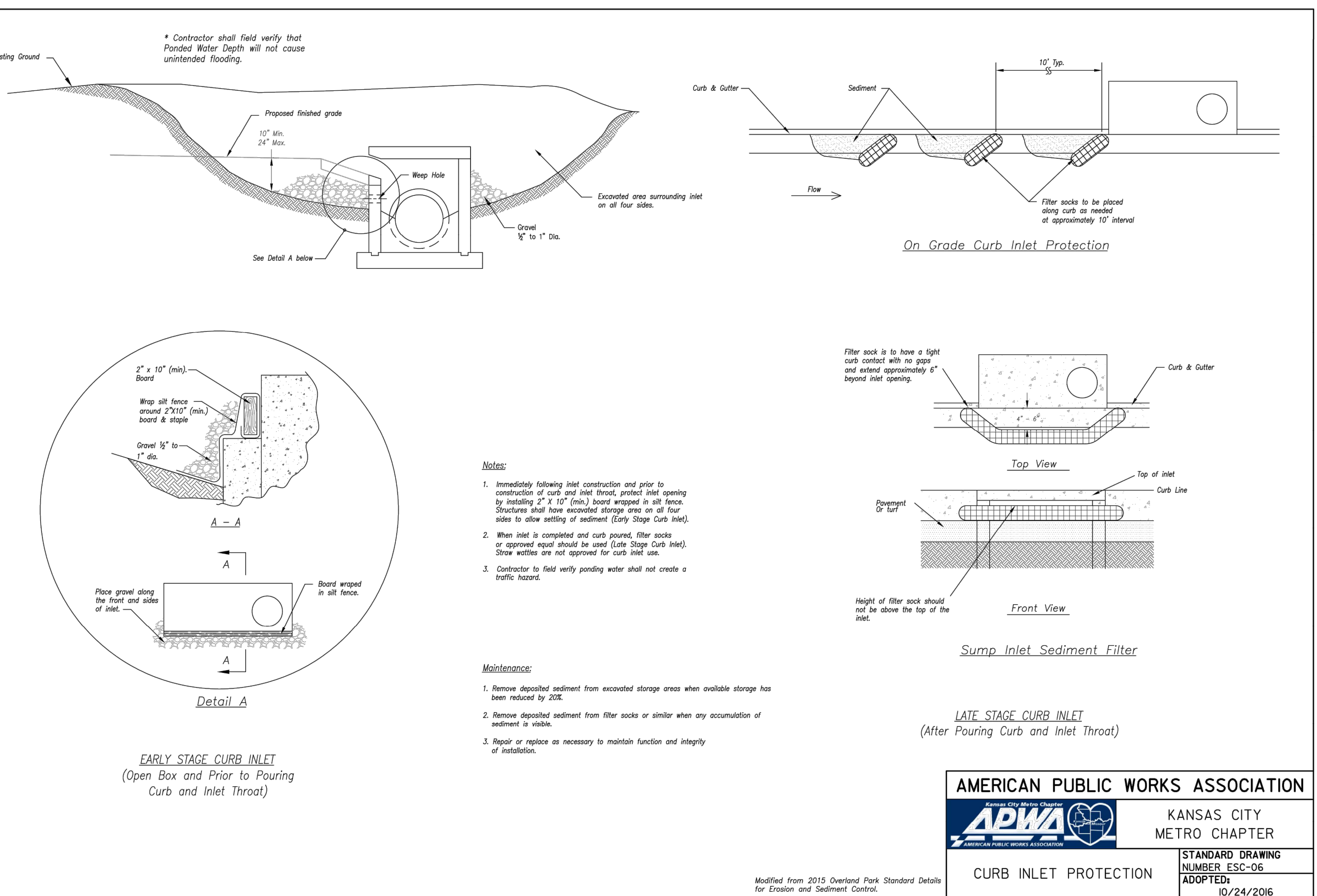
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4

CURB INLET PROTECTION

NTS



SILT FENCE

3

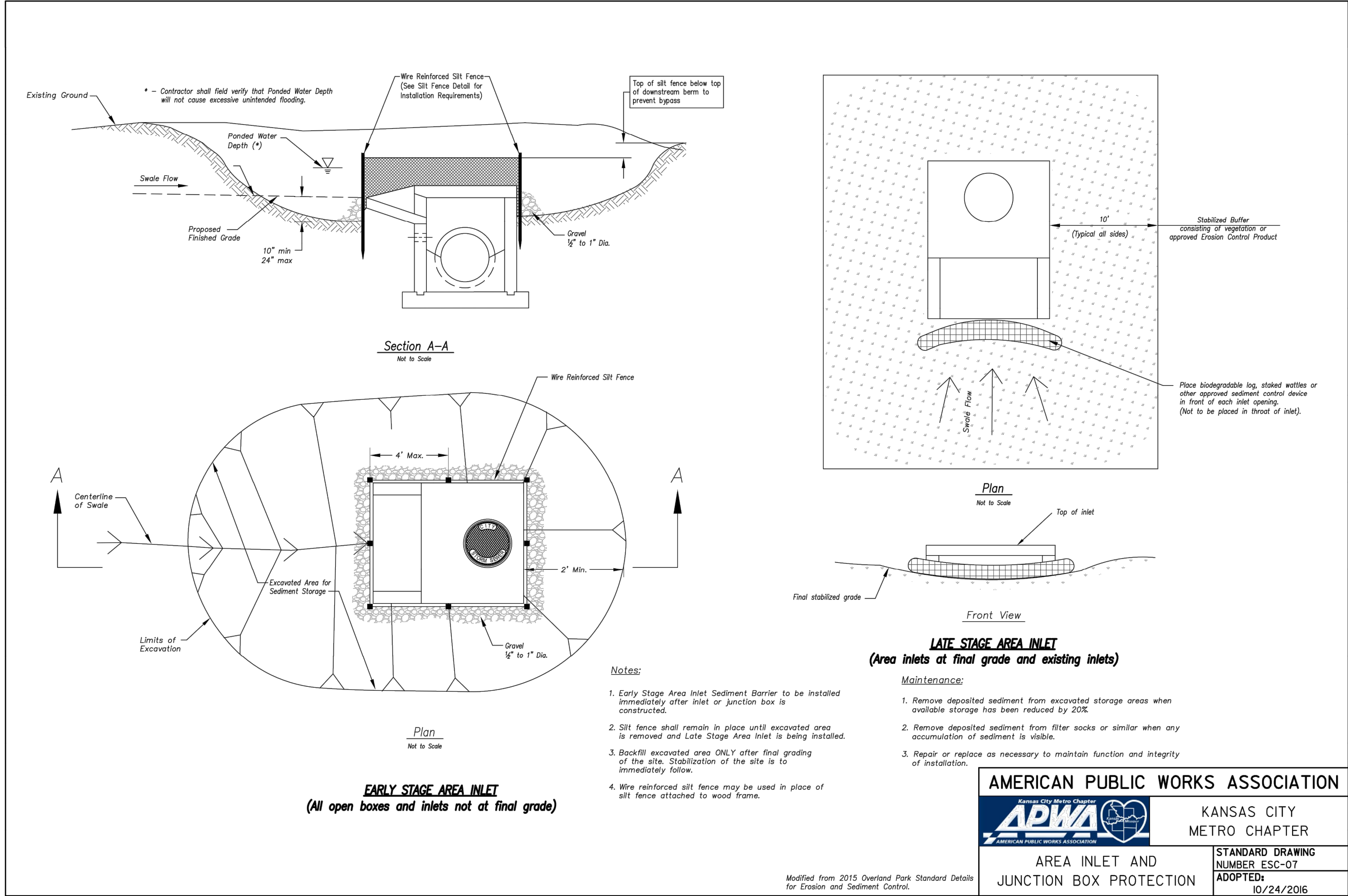
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B

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1

AREA INLET AND JUNCTION BOX PROTECTION

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EROSION
CONTROL
DETAILS

C-511

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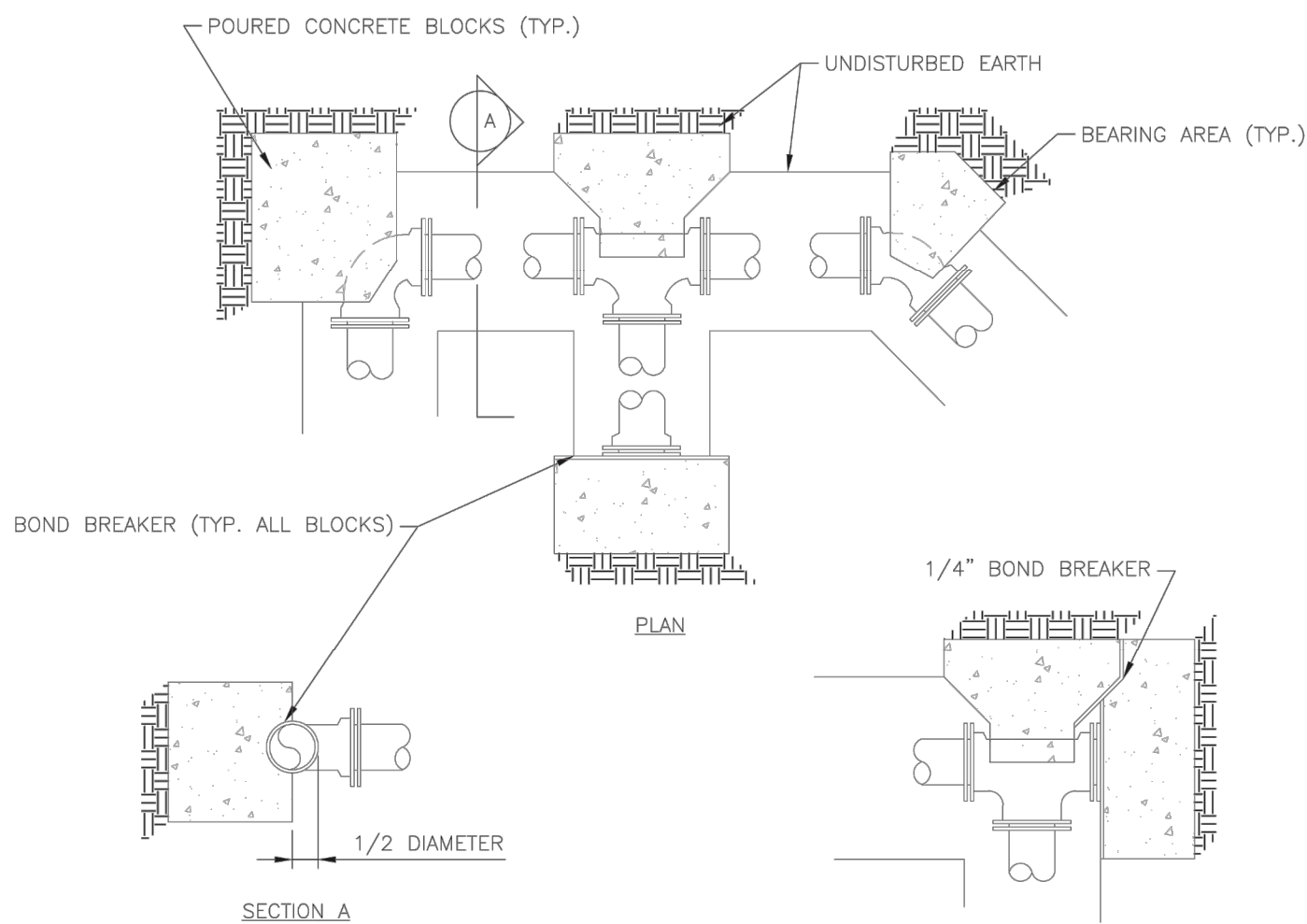
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B

A

| REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF) | | | | | |
|---|------------------|------------|------------|--------------|---------------|
| NOM. DIA. (INCHES) | 180 TEE, PLUG | 90 BEND | 45 BEND | 22.5 BEND | 11.25 BEND |
| 6 | 4.7 | 6.7 | 4.0 | 4.0 | 4.0 |
| 8 | 8.4 | 11.8 | 6.4 | 4.0 | 4.0 |
| 10 | 13.1 | 18.5 | 10.0 | 5.1 | 4.0 |
| 12 | 18.8 | 26.7 | 14.4 | 7.4 | 4.0 |
| 14 | 25.7 | 36.3 | 19.6 | 10.0 | 5.0 |
| 16 | 33.5 | 47.4 | 25.6 | 13.1 | 6.6 |
| 18 | 42.4 | REST. JT. | 32.5 | 16.5 | 8.3 |
| 20 | REST. JT. | REST. JT. | 40.1 | 20.4 | 10.3 |
| 24 | REST. JT. | REST. JT. | REST. JT. | 29.4 | 14.8 |



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



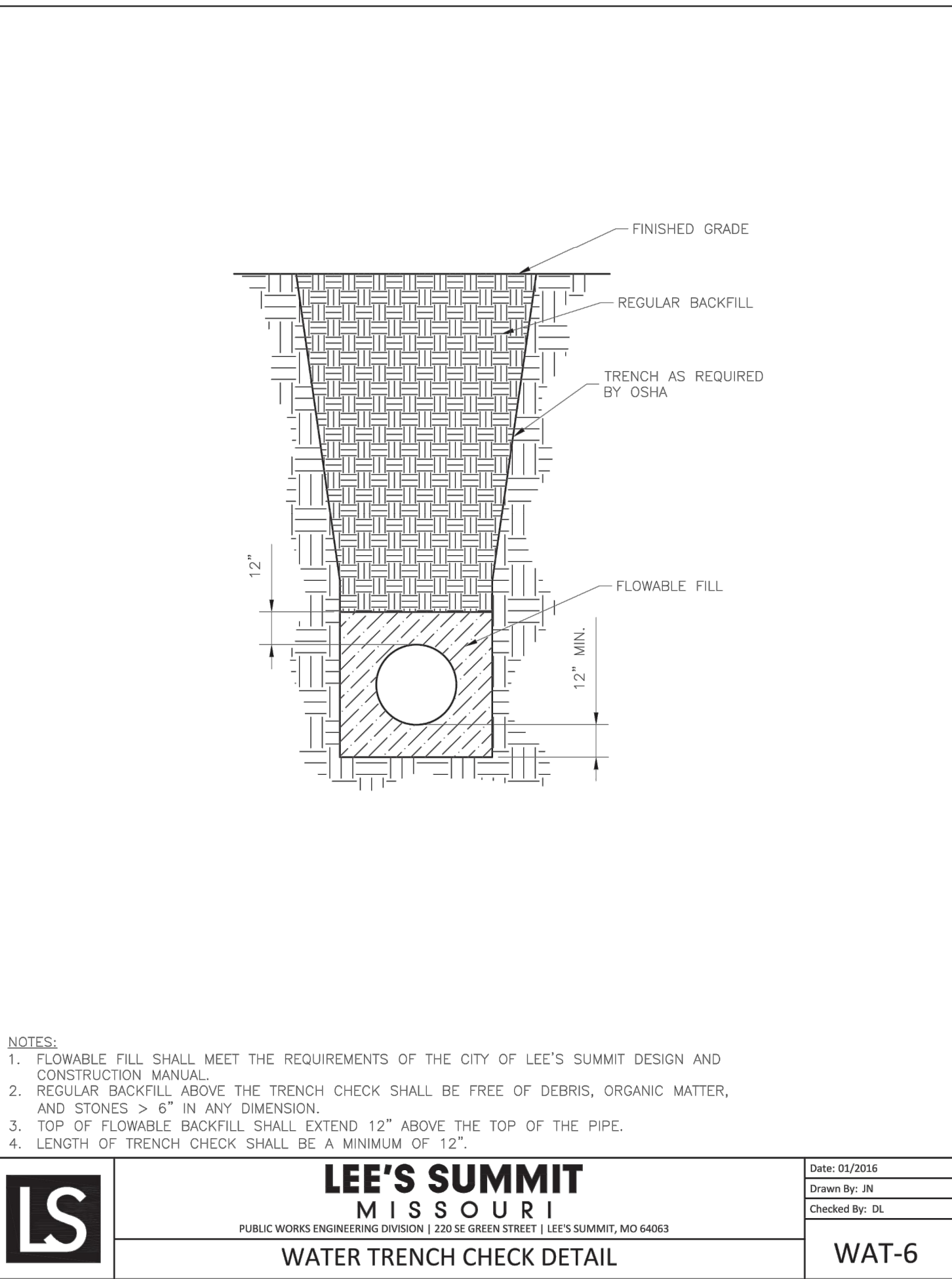
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HORIZONTAL THRUST BLOCK

Date: 01/2016
Drawn By: JN
Checked By: DL

WAT-1

1 HORIZONTAL THRUST BLOCK

NTS



- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".



LEE'S SUMMIT
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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
WATER TRENCH CHECK DETAIL

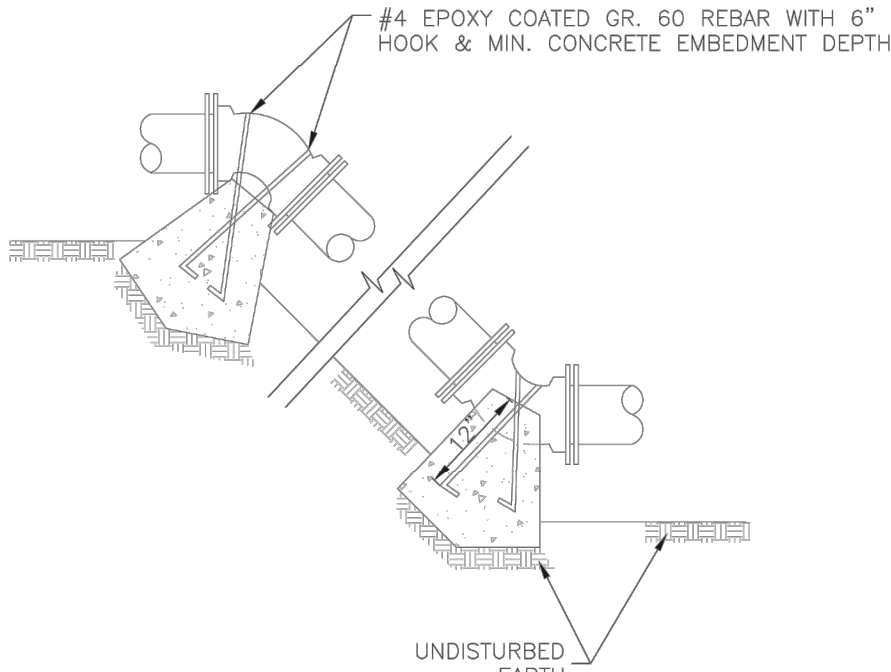
Date: 01/2016
Drawn By: JN
Checked By: DL

WAT-6

4 WATER TRENCH CHECK DETAIL

NTS

| REQUIRED CONCRETE VOLUME (CUBIC FEET - CF) | | | | | |
|--|------------------|------------|------------|--------------|---------------|
| NOM. DIA. (INCHES) | 180 TEE, PLUG | 90 BEND | 45 BEND | 22.5 BEND | 11.25 BEND |
| 6 | 50.5 | 71.4 | 38.6 | 19.7 | 9.9 |
| 8 | 89.8 | 126.9 | 68.7 | 35.0 | 17.6 |
| 10 | 140.2 | 198.3 | 107.3 | 54.7 | 27.5 |
| 12 | 202.0 | REST. JT. | 154.6 | 78.8 | 39.6 |
| 14 | REST. JT. | REST. JT. | 210.4 | 107.3 | 53.9 |
| 16 | REST. JT. | REST. JT. | REST. JT. | 140.1 | 70.4 |
| 18 | REST. JT. | REST. JT. | REST. JT. | 177.3 | 89.1 |
| 20 | REST. JT. | REST. JT. | REST. JT. | REST. JT. | 110.0 |
| 24 | REST. JT. | REST. JT. | REST. JT. | REST. JT. | 158.4 |



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



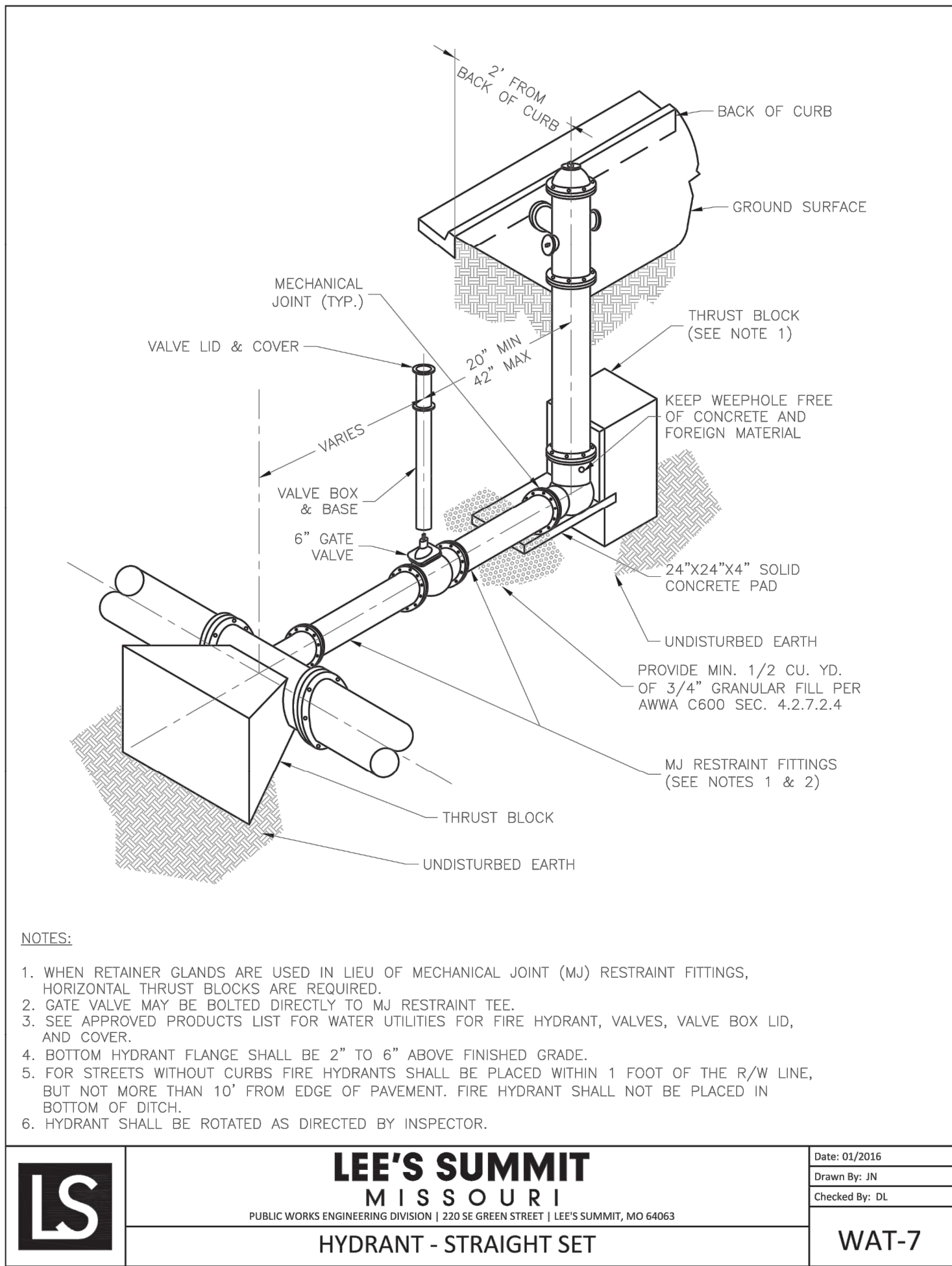
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VERTICAL THRUST BLOCK

Date: WAT-2
Drawn By: JN
Checked By: DL

WAT-2

2 VERTICAL THRUST BLOCK

NTS



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.



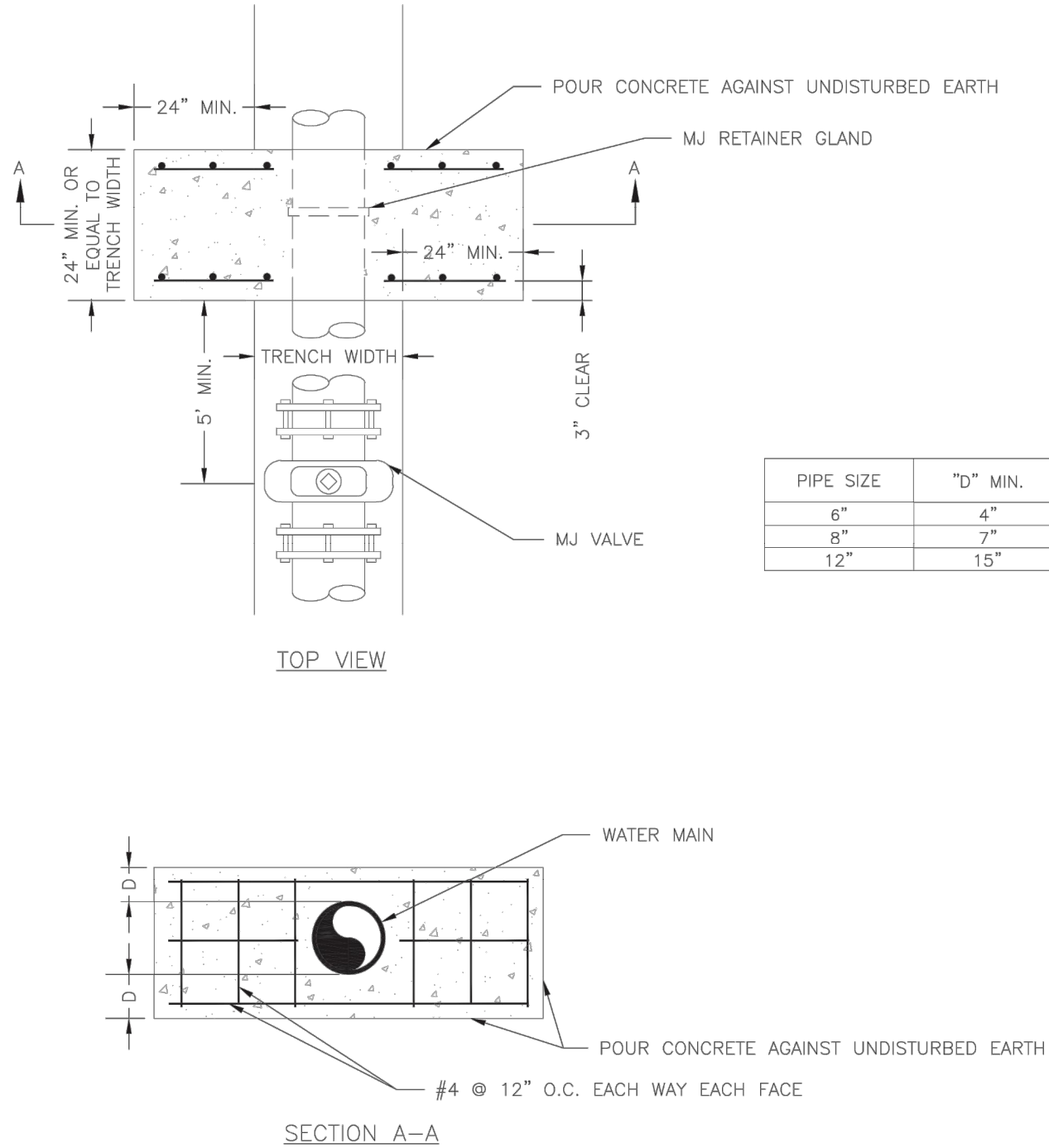
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HYDRANT - STRAIGHT SET

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WAT-7

5 HYDRANT - STRAIGHT SET

NTS



NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"



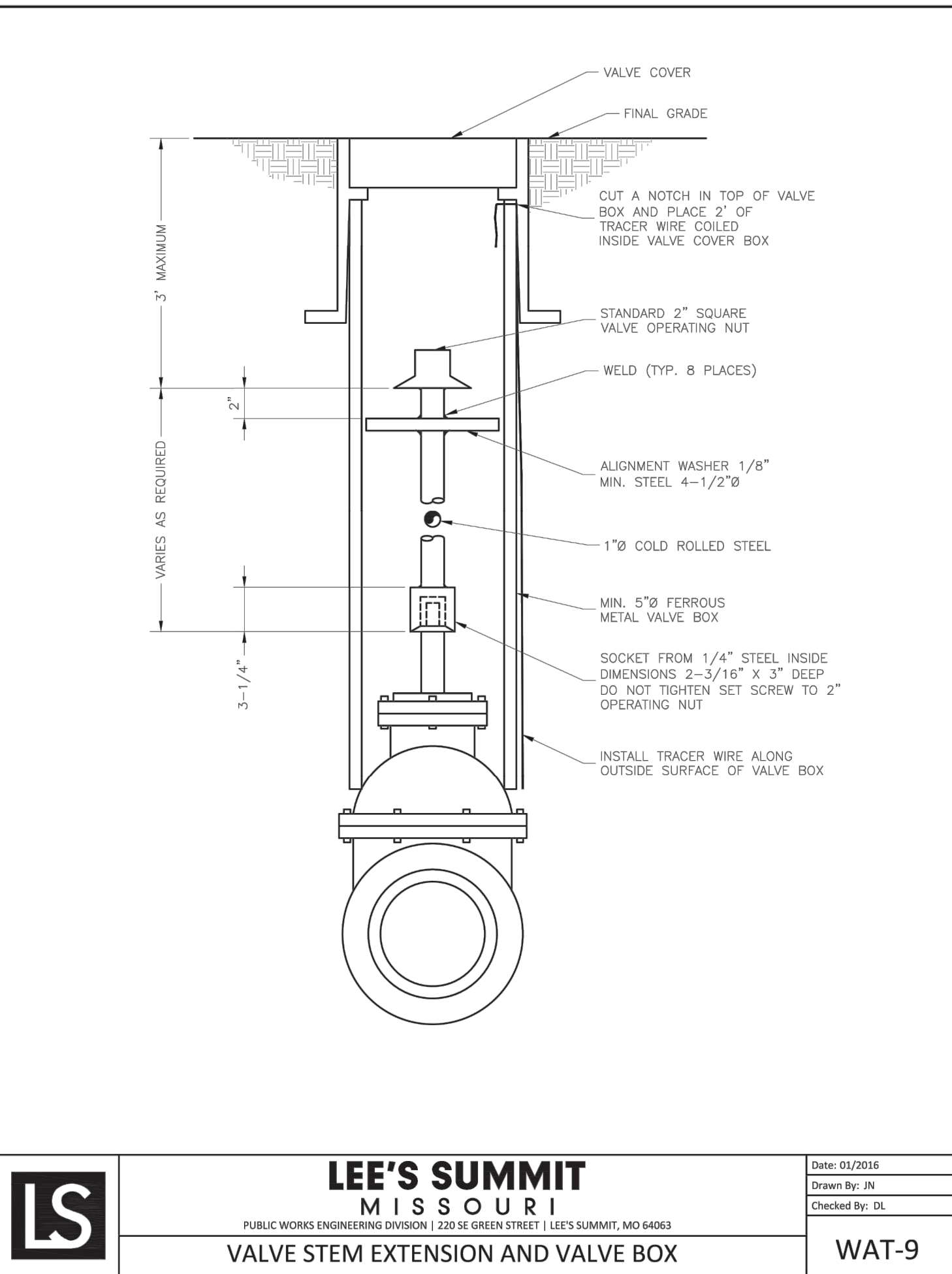
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STRADDLE BLOCK

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WAT-3

3 STRADDLE BLOCK

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VALVE STEM EXTENSION AND VALVE BOX

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WAT-9

6 VALVE STEM EXTENSION & VALVE BOX

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FIRE STATION #5

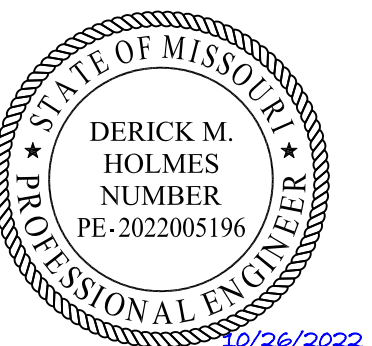
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WATER
DETAILS

C-520

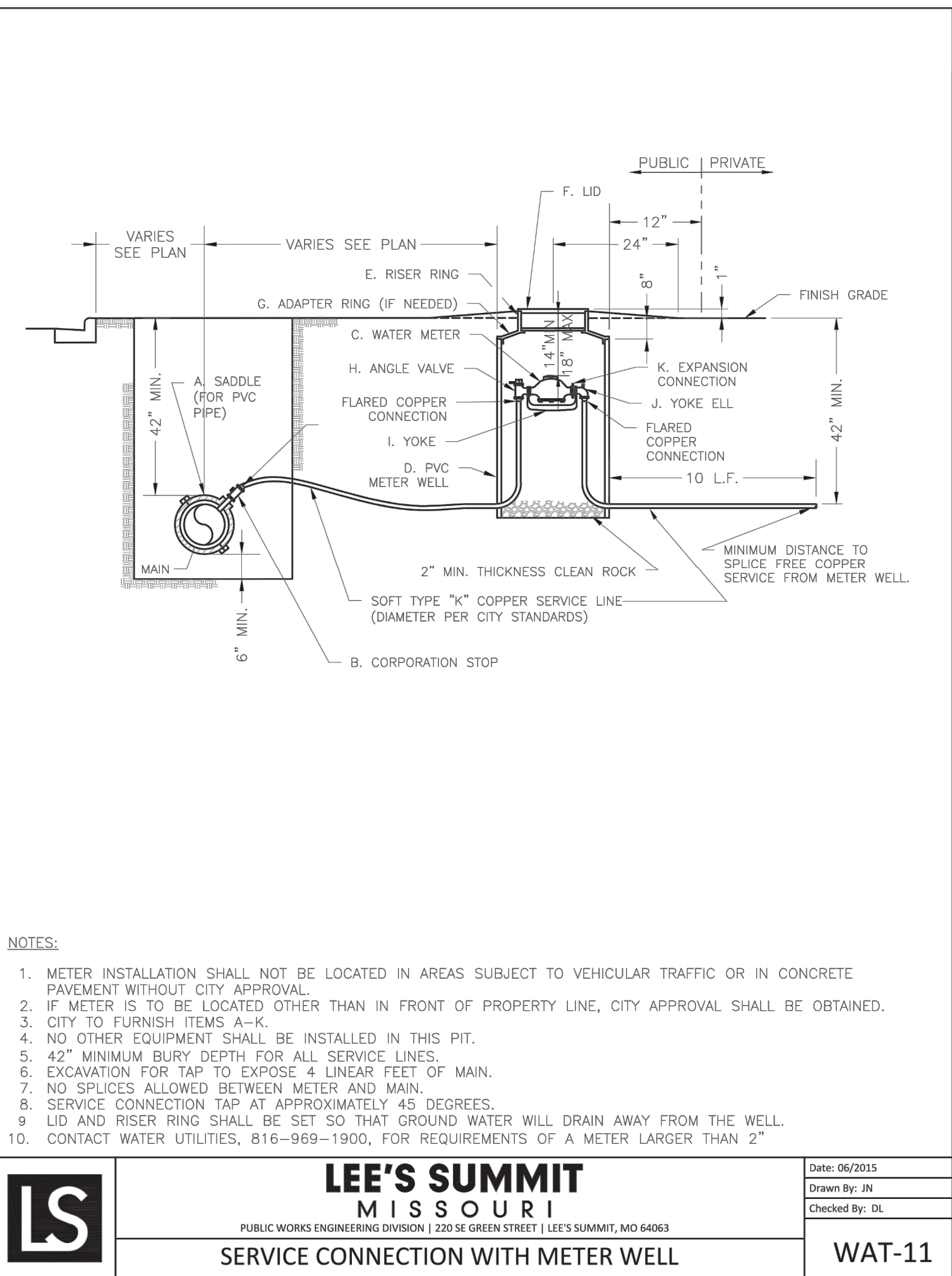
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D

C

B

A



- NOTES:
1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
 2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
 3. CITY TO FURNISH ITEMS A-K.
 4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
 5. 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
 6. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
 7. NO SPLICES ALLOWED BETWEEN METER AND MAIN.
 8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
 9. LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
 10. CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

LS

LEE'S SUMMIT

MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 06/2015

Drawn By: JN

Checked By: DL


SERVICE CONNECTION WITH METER WELL

WAT-11

1

SERVICE CONNECTION WITH METER WELL

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LEE'S SUMMIT, MISSOURI 64082

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

| # | Description | Date |
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MO# PE-2022005196
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PROJECT NO: 18225R21001

DATE: 10.26.2022

DRAWN BY: SJB

CHKD BY: DMH

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WATER DETAILS

C-521

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Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.


MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

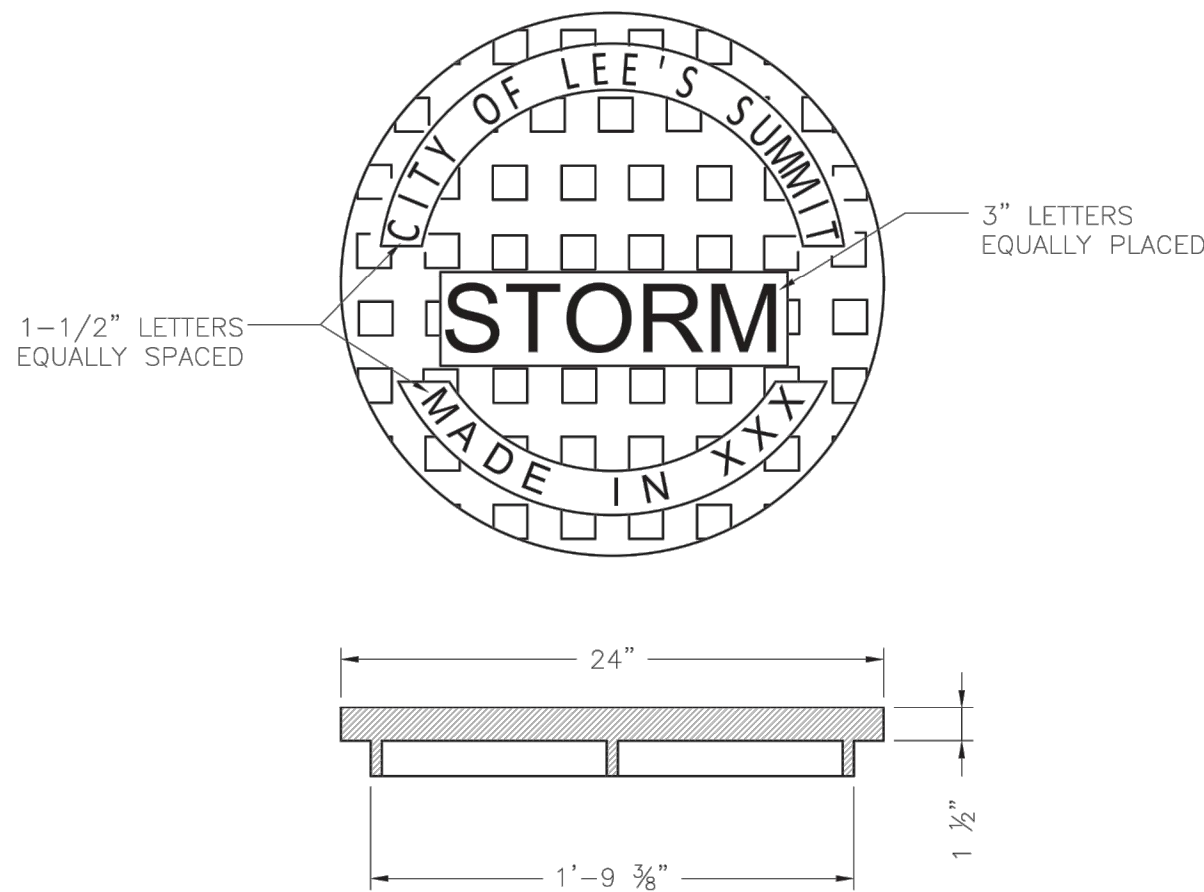
INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

| | | | |
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| | DATE 3-10-00 | | |
| | REVISED BY NMH | PROJECT NO. NAME | |
| | DATE 02-21-16 | TITLE | |
| DWG SIZE A | SCALE 1:1 | SHEET 1 OF 1 | 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS DWG NO. 7001-110-011 REV J |

1 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS

NTS



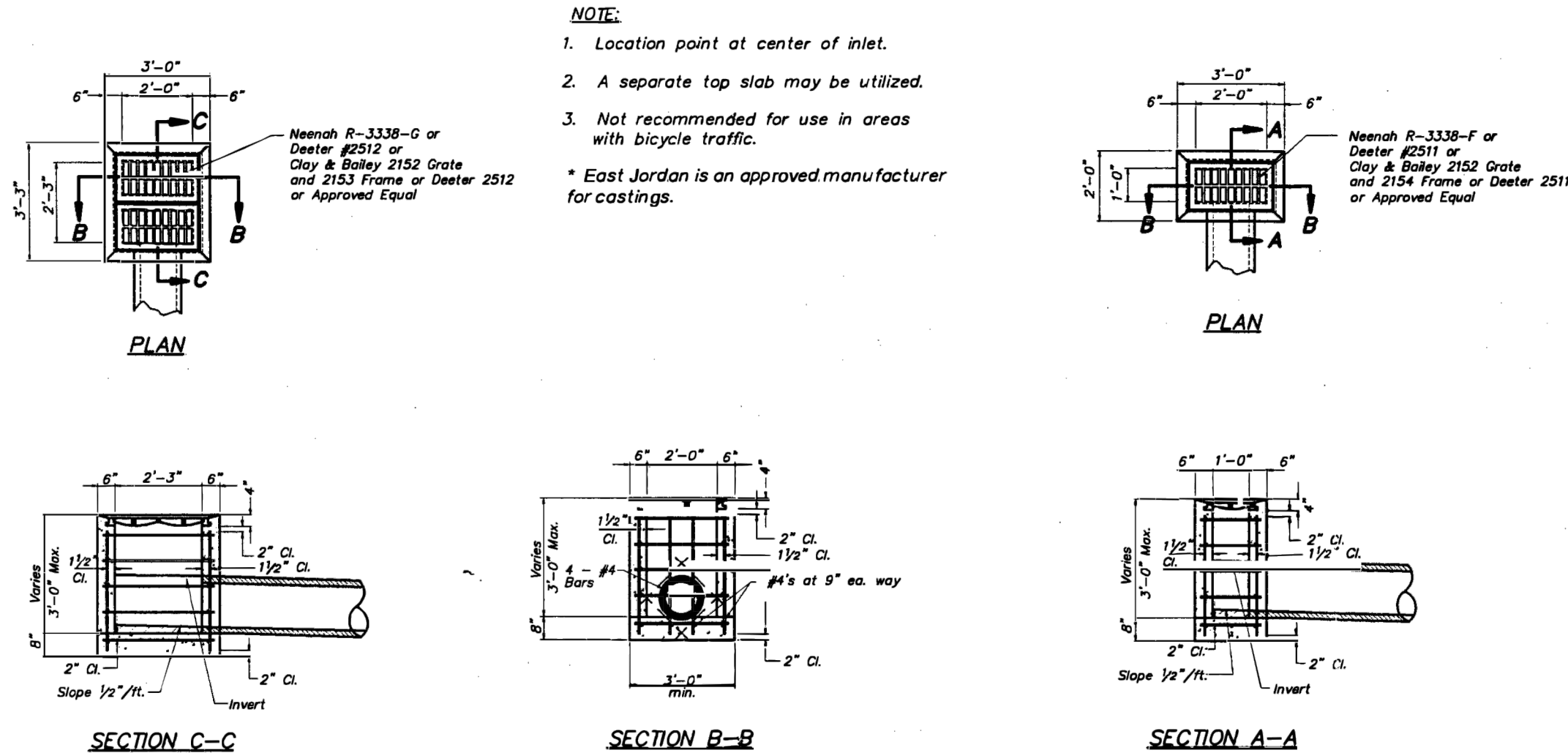
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCT LIST.

| | | | |
|---|--|--|-------|
|  | LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 | Date: 05/2023 Drawn By: MAF Checked By: DL | STM-6 |
| | | | |
| | | | |
| | | | |

3 STORM MANHOLE COVER DETAIL

NTS




NOTE:

1. Location point at center of inlet.
2. A separate top slab may be utilized.
3. Not recommended for use in areas with bicycle traffic.

* East Jordan is an approved manufacturer for castings.

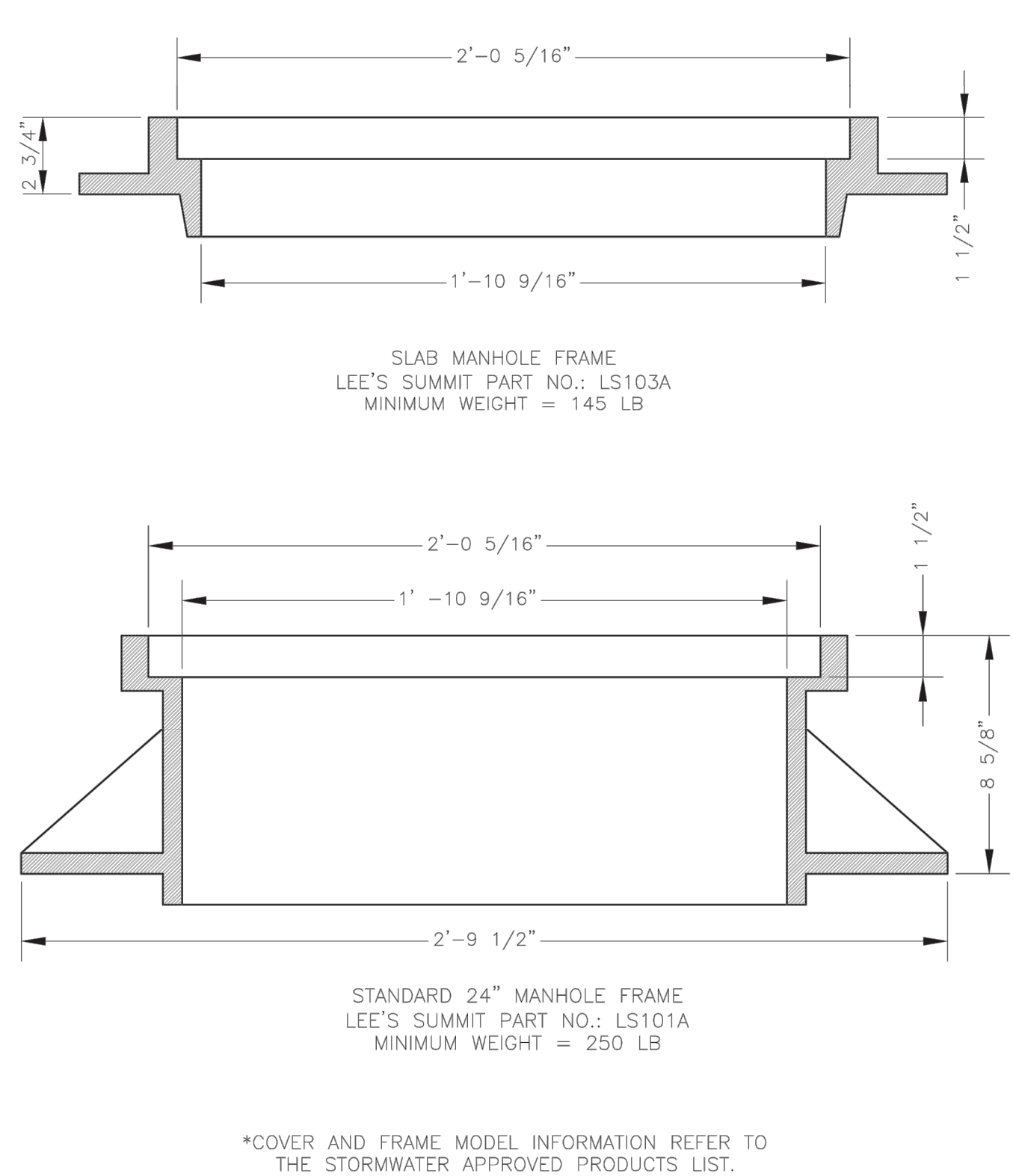
DOUBLE GRATE INLET DETAILS

SINGLE GRATE INLET DETAILS

| | |
|---|--|
| AMERICAN PUBLIC WORKS ASSOCIATION | |
|  | |
| GRATE INLET DETAILS | |
| KANSAS CITY METROPOLITAN CHAPTER | |
| STANDARD DRAWING NUMBER G-1 ADOPTED: APRIL 17, 1996 | |

2 GRATE INLET DETAIL

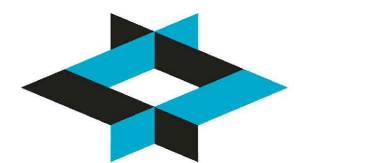
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| | | | |
| | | | |
| | | | |

4 STORM MANHOLE FRAME DETAIL

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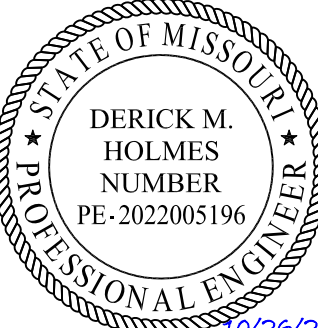
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MO# PE-2022005196

The Professional Engineers and drafters in this sheet are duly licensed and are duly qualified in the State of Missouri. The undersigned hereby certifies that the undersigned has prepared the design, drawings and other documents not constituting this sheet and not contained herein by the engineer and the engineer's assistant or assistants are duly qualified in the State of Missouri.

PROJECT NO: 18225R21001

DATE: 10.26.2022

DRAWN BY: SJB

CHKD BY: DMH

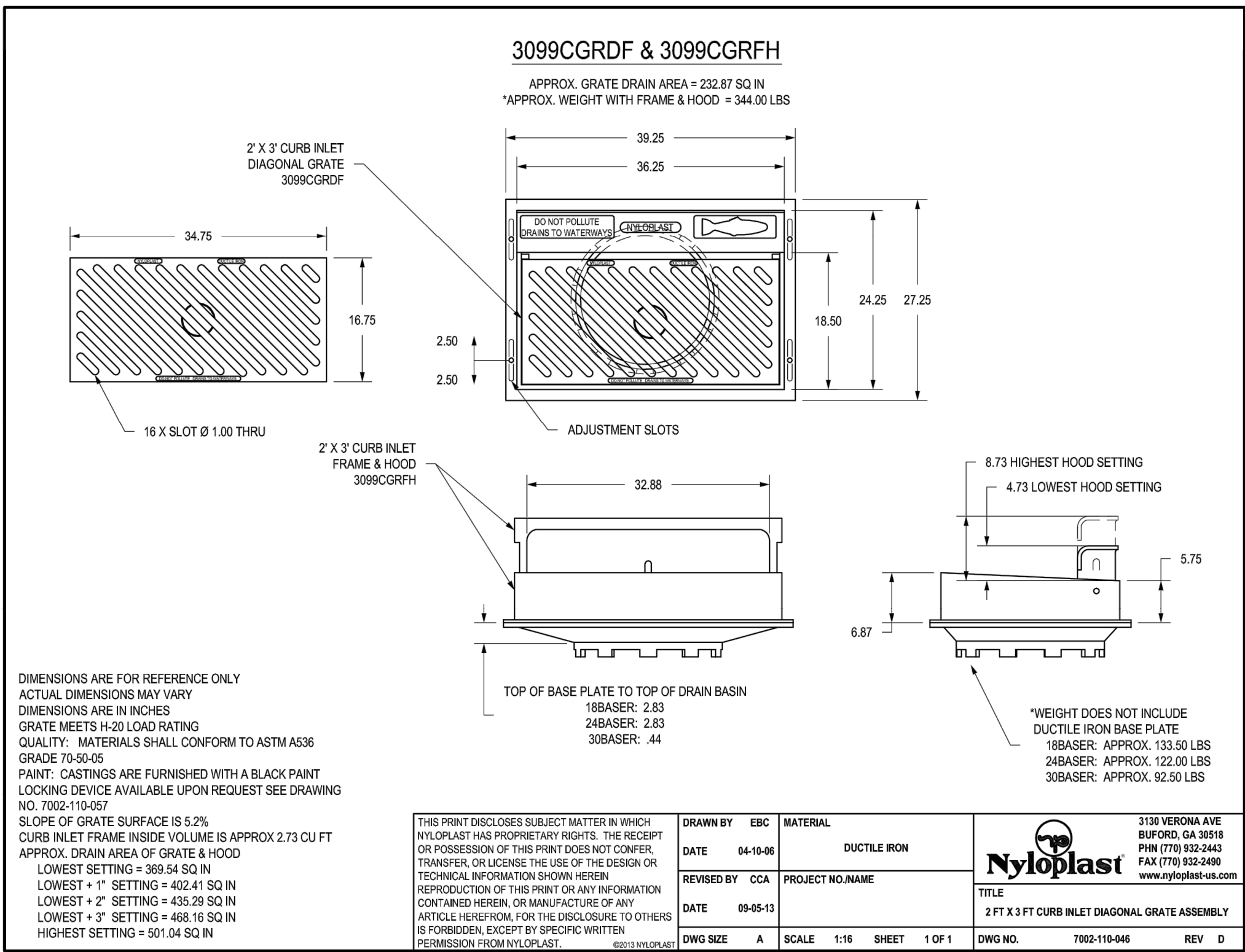
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STORMWATER
DETAILS

C-530

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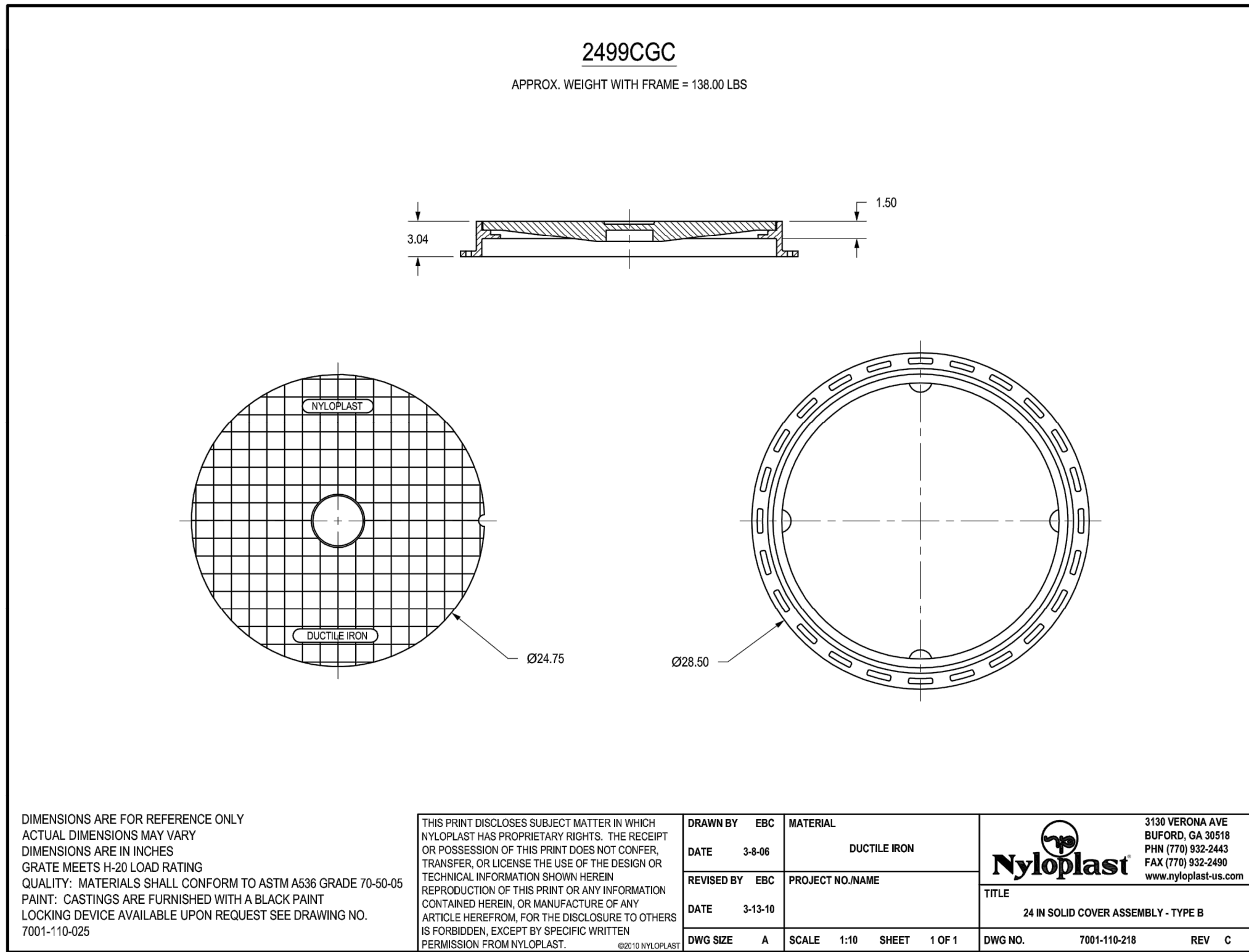


C

1 2'x3' CURB INLET DIAGONAL GRATE ASSEMBLY

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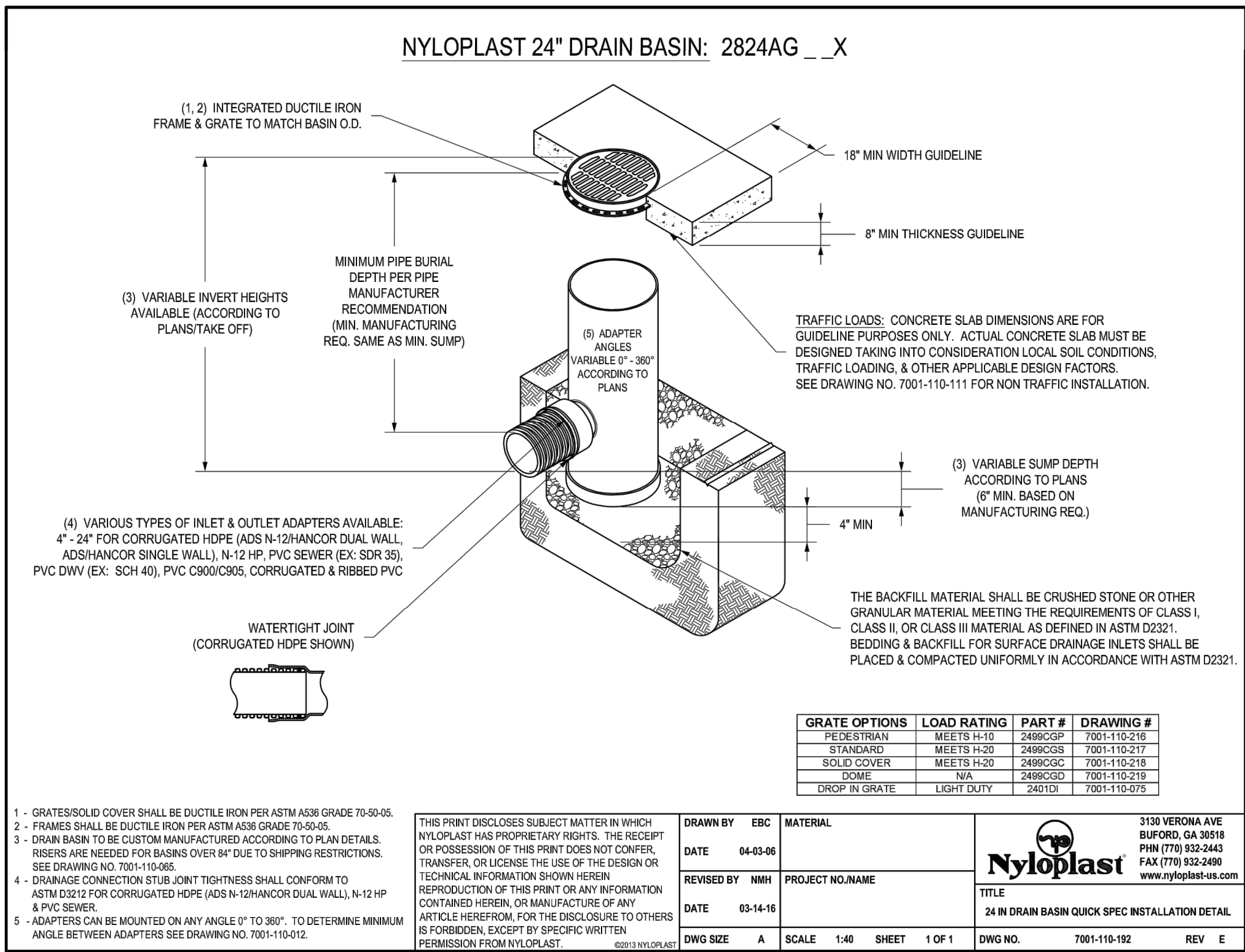
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24" SOLID COVER ASSEMBLY - TYPE B

NTS

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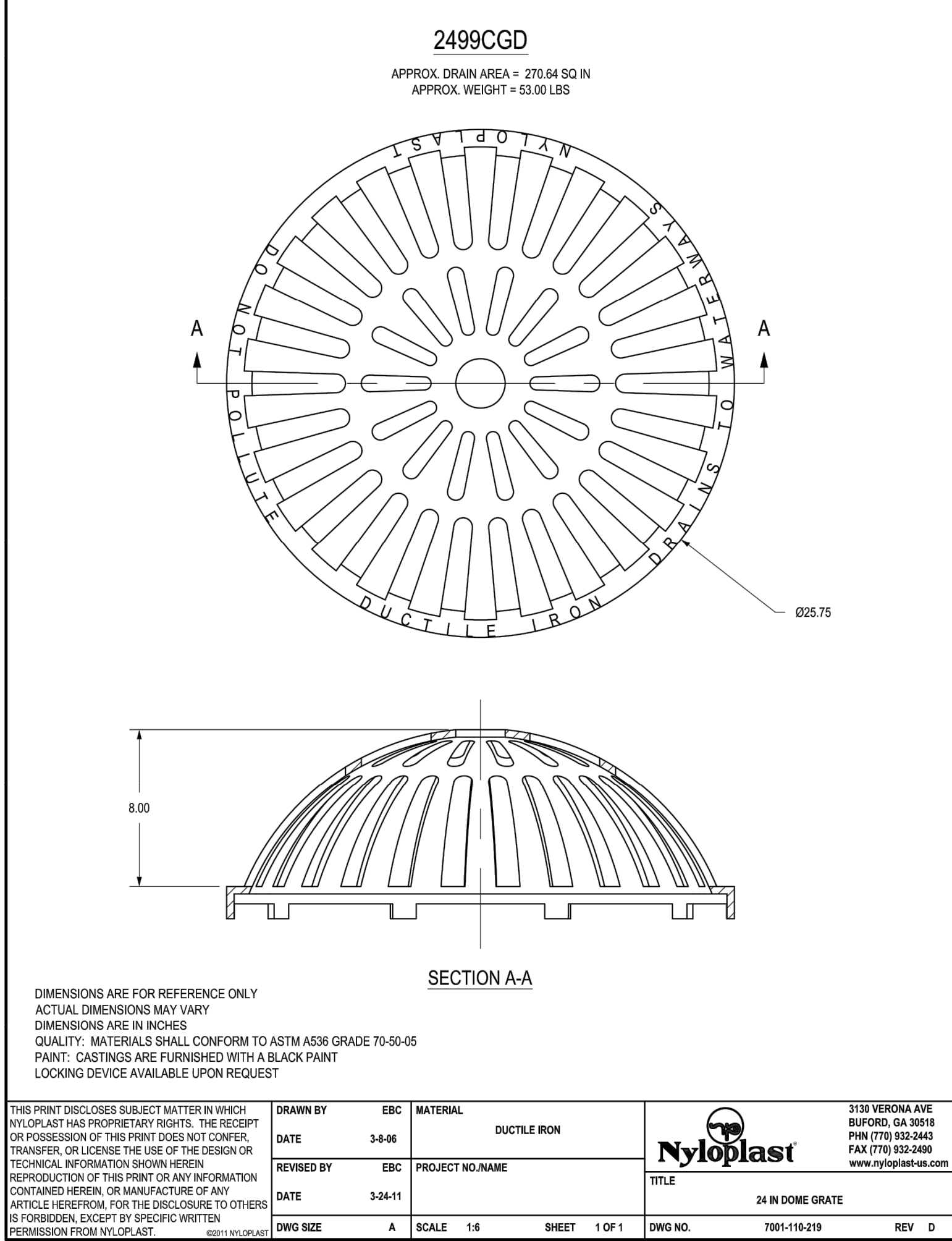


2

24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

NTS

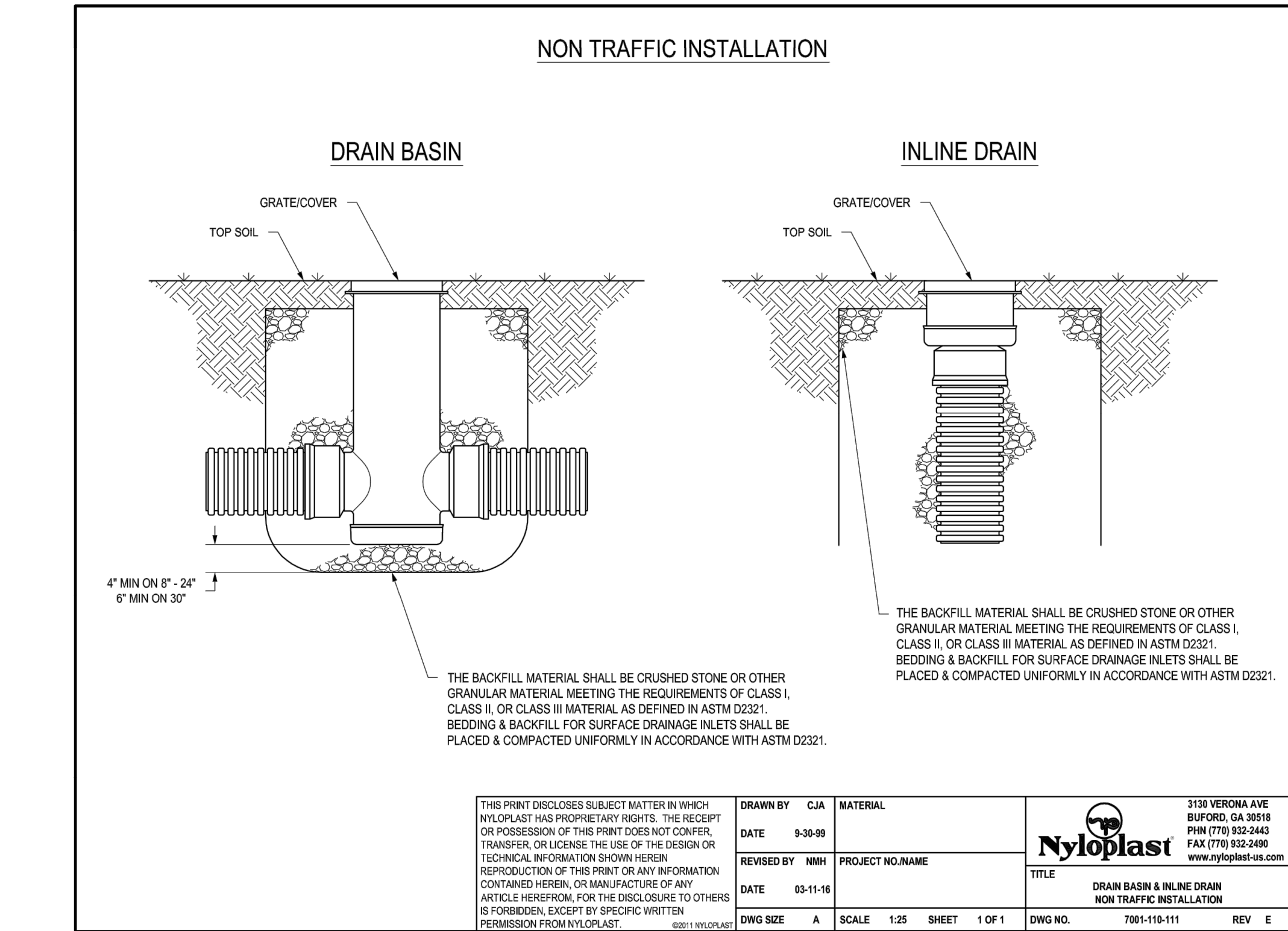
4



3 24" DOME GRATE

NTS

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5

DRAIN BASIN & INLINE DRAIN NON-TRAFFIC INSTALLATION

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DATE: 10.26.2022

DRAWN BY: SJB

CHKD BY: DMH

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STORMWATER DETAILS

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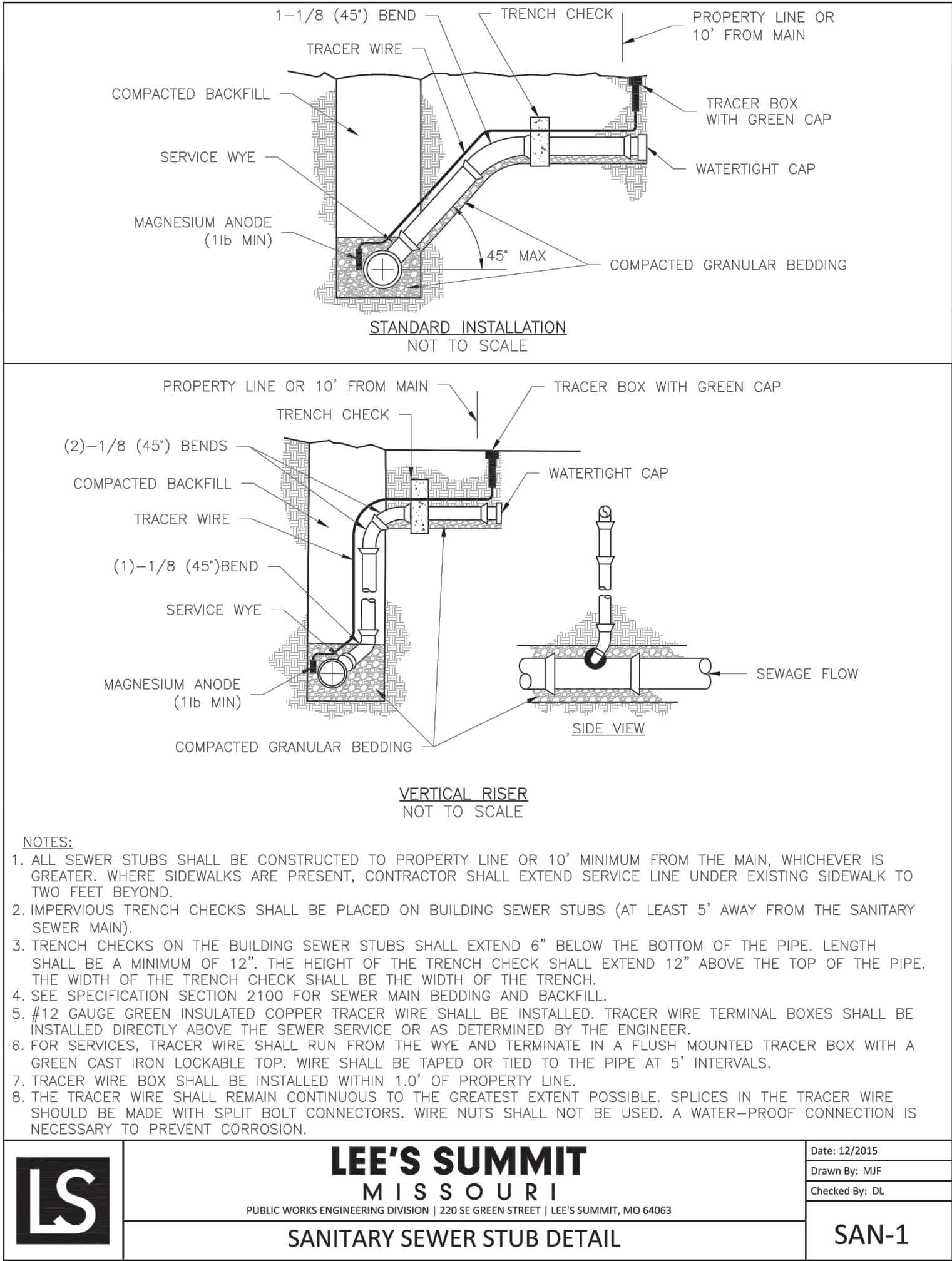


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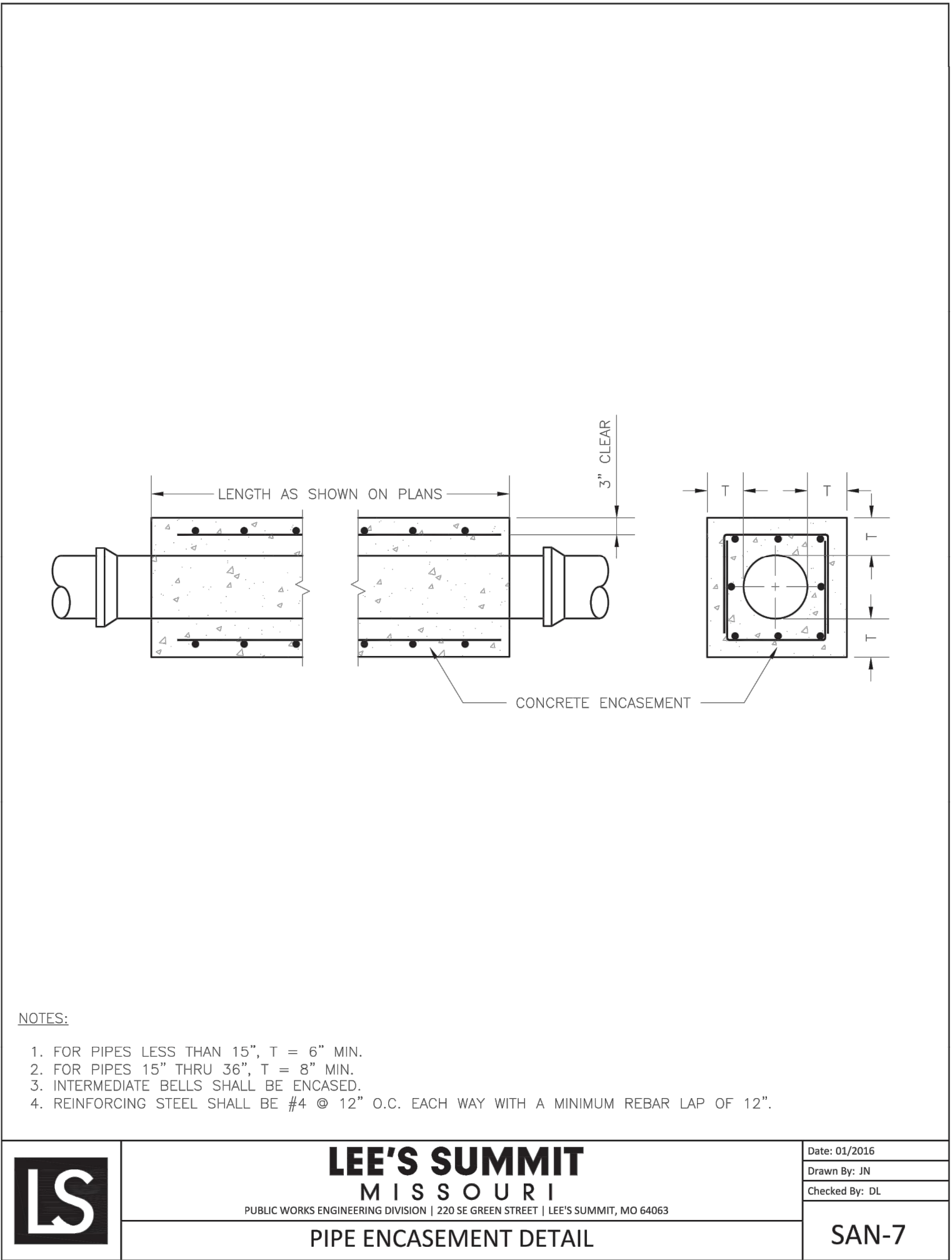
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2 **PIPE ENCASEMENT**
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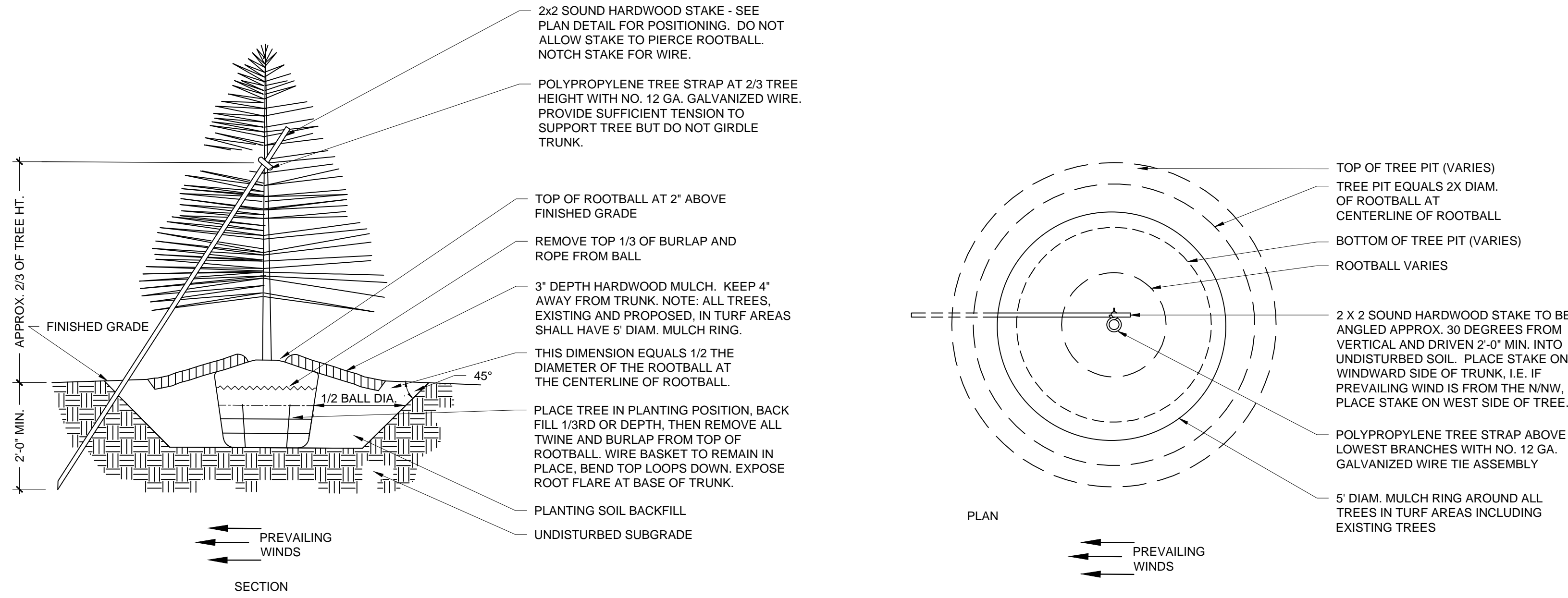
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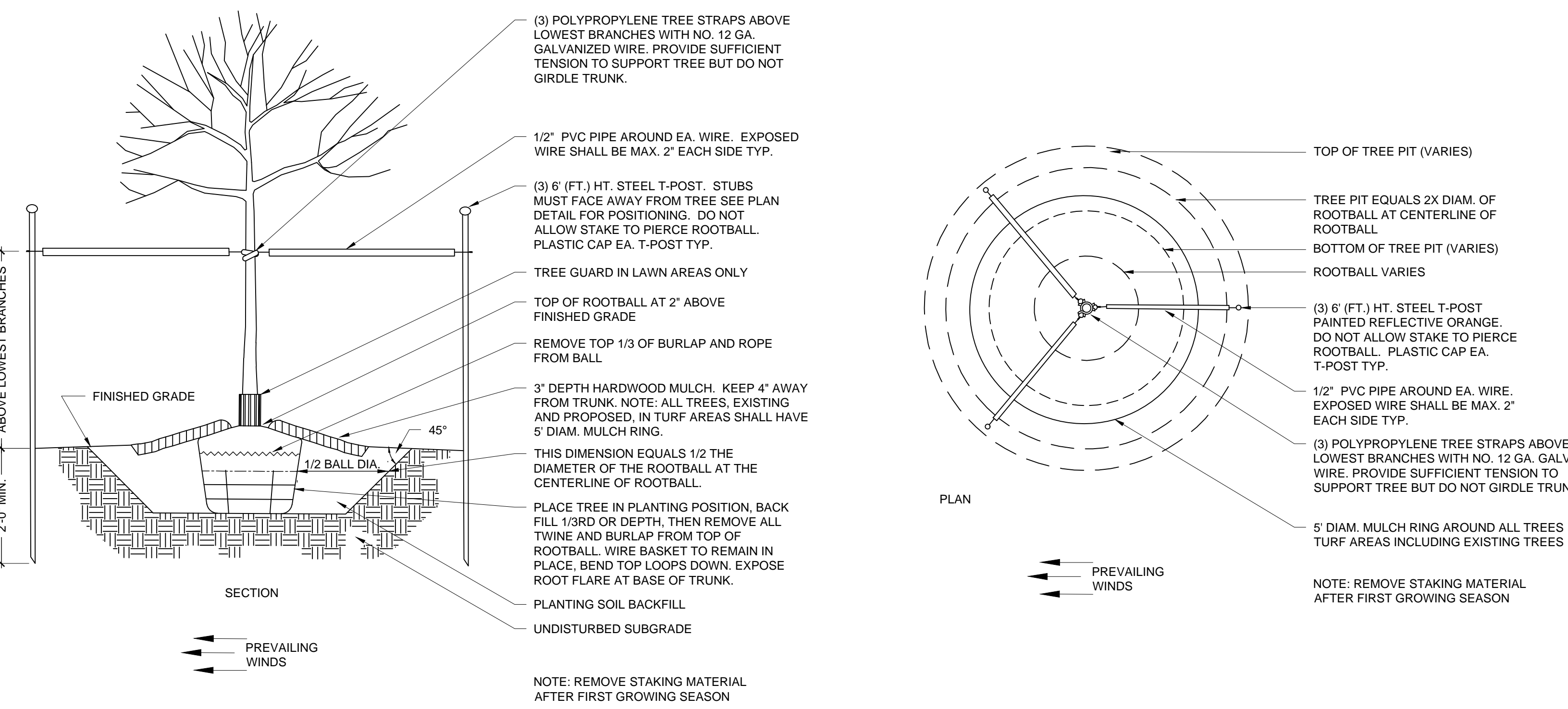
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1 EVERGREEN TREE PLANTING

N.T.S.

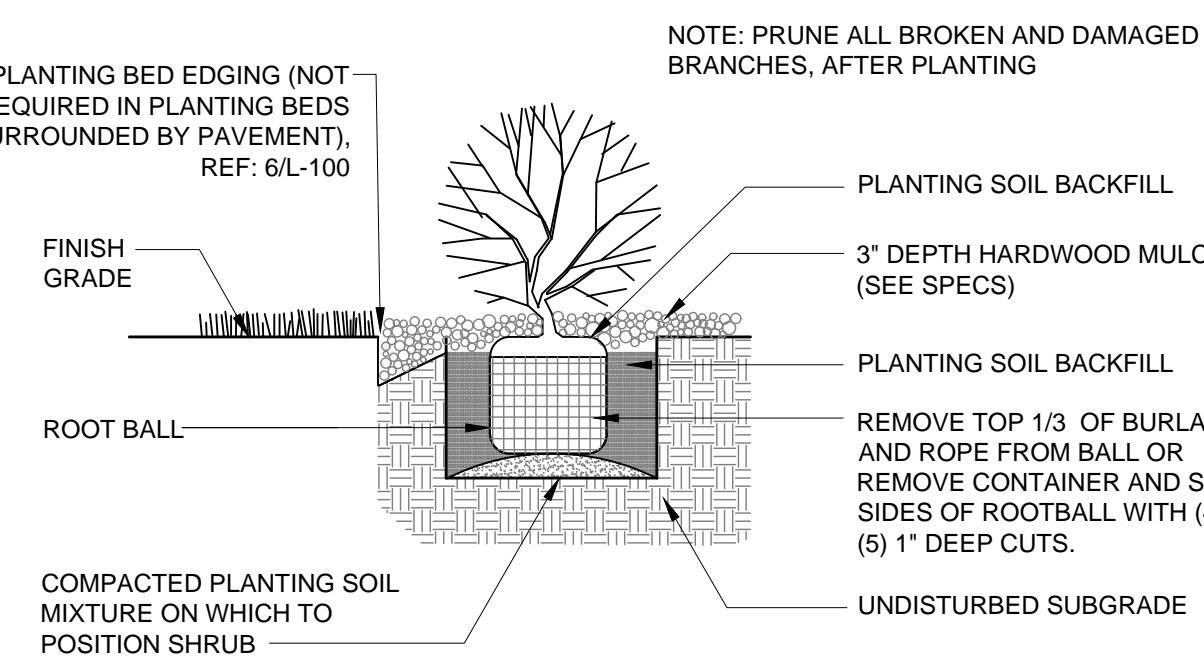
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3 DECIDUOUS TREE PLANTING

N.T.S.

B



5 SHRUB PLANTING

N.T.S.

A

2 EVERGREEN TREE STAKING

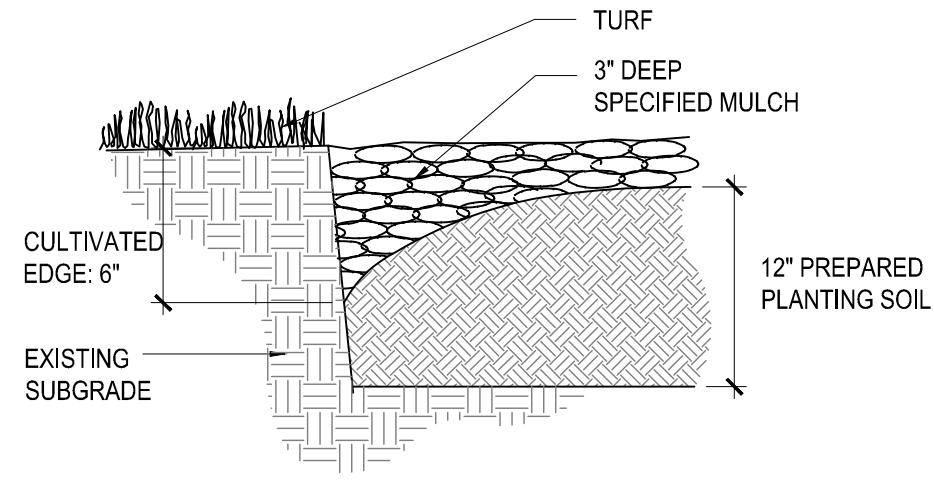
N.T.S.

C

4 DECIDUOUS TREE STAKING

N.T.S.

B



6 CULTIVATED EDGE

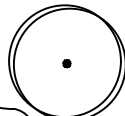

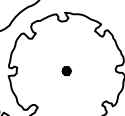















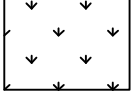
N.T.S.

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GENERAL LANDSCAPE SITE NOTES

- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 48 HOURS ADVANCE NOTICE TO ALL THOSE COMPANIES/UTILITIES THAT HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
 - CONTRACTOR SHALL VERIFY ALL PLANT COUNTS, QUANTITIES AND AREAS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO ORDERING OR INSTALLING MATERIALS SPECIFIED.
 - SEE PLANT SCHEDULE FOR PLANT LEGEND AND QUANTITIES.
 - SYMBOLS INDICATED ON THE PLAN TAKE PRIORITY OVER WRITTEN QUANTITIES AND LABELS.
 - PLANTS CALLED OUT IN PLAN ARE CONSIDERED IN CLUSTERS EVEN IF NOT ATTACHED BY CONNECTING LINES. CALLOUTS HAVE TOTAL COUNTS NEEDED.
 - CONTRACTOR SHALL MAINTAIN THE LANDSCAPE UNTIL SUBSTANTIAL COMPLETION. MAINTENANCE WORK SHALL CONSIST OF APPLYING WATER, WEEDING, AND FERTILIZING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DISEASE AND PEST CONTROL DURING THE MAINTENANCE PERIOD.
 - CONTRACTOR TO VERIFY, WITH SOIL ANALYSIS, THE SOIL AMENDMENT NEEDED AND CONTACT THE LANDSCAPE ARCHITECT IF THERE ARE ANY INADEQUATE AMENITIES.
 - PLANT MATERIAL SHALL NOT BE DELIVERED TO THE SITE NOR INSTALLED WHEN TEMPERATURES ARE ABOVE 90°F OR BELOW 40°F AT THE TIME OF PLANTING AND FORECASTED FOR A PERIOD OF 2 WEEKS AFTER INSTALLATION.
 - CONTRACTOR TO PROVIDE A 1-YEAR WARRANTY ON ALL INSTALLED PLANTINGS FROM POINT OF SUBSTANTIAL COMPLETION.
- ## PLANTING NOTES
- ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE AND INFESTATION, AND TRUE TO TYPE, VARIETY, SIZE SPECIFIED, AND FORM PER THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1, CURRENT VERSION), PUBLISHED BY THE AMERICAN NURSERYMEN'S ASSOCIATION.
 - PLANT MATERIAL SHALL BE PLANTED AND MAINTAINED TO ASNS SPECIFICATIONS.
 - CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
 - NO SUBSTITUTIONS FOR VARIETY OR CULTIVAR SHALL BE ACCEPTED WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT.
 - ALL TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY, PAYING ATTENTION TO EVEN SPACING IN THE ROW OR COVERAGE AREA OF THE INDIVIDUAL SPECIES AND HOW IT IS BEING USED.
 - ALL PLANTING BEDS ABUTTING LAWN AREAS SHALL HAVE A CULTIVATED EDGE (SEE DETAIL, THIS SHEET).
 - ALL PLANTINGS SHALL BE THOROUGHLY WATERED IN WITH A GARDEN HOSE, TWICE, THE SAME DAY AS INSTALLATION TO ELIMINATE AIR POCKETS IN THE BACKFILL.
 - NO PLANTINGS SHALL BE PLACED CLOSER THAN 3' FROM THE BACK OF THE CURB TO ALLOW FOR VEHICLE BUMPER OVERHANG.
 - PROPOSED TREES SHALL NOT BE PLACED OVER EXISTING OR PROPOSED UTILITY SERVICE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND UTILITY LOCATIONS AND HAVE THEM MARKED DURING TREE PLANTING OPERATIONS. IF UTILITY IS DAMAGED DURING PLANTING, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR AND OWNER OF UTILITY AND PAYING FOR REPAIR OF THE DAMAGED UTILITY.
 - ALL PLANTING BEDS WILL HAVE 3-INCHES OF SHREDDED BROWN HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED.

PLANT SCHEDULE

| TREES | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE | |
|---|------|-----------|---|--------|-------|----------|
|  | AB | 3 | Acer rubrum 'Brandywine' / Brandywine Red Maple | B & B | 2.5" | |
|  | AA | 3 | Acer rubrum 'Armstrong' / Armstrong Red Maple | B & B | 2.5" | |
|  | GP | 2 | Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree | B & B | 2.5" | |
|  | KP | 2 | Koelreuteria paniculata / Golden Rain Tree | B & B | 2.5" | |
|  | MA | 3 | Malus x 'Adirondack' / Adirondack Crabapple | B & B | 2.5" | |
|  | NW | 5 | Nyssa sylvatica 'Wildfire' / Black Gum | B & B | 2.5" | |
|  | UC | 1 | Ulmus x 'Frontier' / Frontier Elm | B & B | 2.5" | |
|  | ZM | 3 | Zelkova serrata 'Musashino' / Musashino Sawleaf Zelkova | B & B | 2.5" | |
| CONIFERS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE | |
|  | PB | 4 | Picea pungens 'Baby Blue' / Baby Blue Colorado Spruce | B & B | 6' Ht | |
|  | TS | 10 | Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae | B & B | 6' Ht | |
| SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | SIZE | SPACING |
|  | Ca | 25 | Cornus sericea 'Artic Fire' / Artic Fire Dogwood | 5 gal | Pot | 48" o.c. |
|  | Ec | 3 | Euonymus alatus 'Compactus' / Compact Burning Bush | 5 gal | Pot | 72" o.c. |
|  | Ho | 33 | Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily | Quart | Pot | 18" o.c. |
|  | Hf | 3 | Hosta x 'First Frost' / First Frost Hosta | 2 gal | Pot | 30" o.c. |
|  | Lm | 20 | Liriope muscari / Lily Turf | Quart | Pot | 12" o.c. |
|  | Rr | 12 | Rosa x 'Knockout' TM / Rose | 2 gal | Pot | 48" o.c. |
| GRASSES | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | SIZE | SPACING |
|  | Ck | 20 | Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass | 3 gal. | Pot | 36" o.c. |
|  | Sh | 34 | Sporobolus heterolepis / Prairie Dropseed | 2 gal | Pot | 30" o.c. |
| EVERGREEN | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | SIZE | SPACING |
|  | JI | 17 | Juniperus chinensis 'Gold Lace' / Gold Lace Juniper | 5 gal | Pot | 60" o.c. |
| SOD/SEED | CODE | QTY | BOTANICAL / COMMON NAME | TYPE | | |
|  | Fa | 15,451 sf | Festuca arundinacea / Tall Fescue 90% Fescue, 10% Bluegrass Mix | sod | | |

7 LANDSCAPE SCHEDULE

A

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KANSAS CITY, MO 64114
TEL: (816) 444-4200

STRUCTURAL ENGINEER
LEIGH + O'KANE
MISSOURI COA #001644
250 NE MURBERRY, SUITE 201
LEE'S SUMMIT, MO, 64086
(816) 444-3144 PHONE

MECH., ELEC. & PLUMBING ENGINEERS
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(816) 663-8700 PHONE

FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

| # | Description | Date |
|---|-------------|------|
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KYLE WARD - LANDSCAPE ARCHITECT
MOR PLA-2016002020

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PROJECT NO: 18225R21001
DATE: 10.26.2022
DRAWN BY: KDW
CHKD BY: CDW

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LANDSCAPE SCHEDULE

L-100

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LANDSCAPE NOTES

1. ALL SHRUBS ADJACENT TO A SIDEWALK OR EDGE SHALL BE PLANTED $\frac{1}{2}$ THE SPACING SPECIFIED IN THE PLANT SCHEDULE.
2. SEE SHEET L-100 FOR PLANT SCHEDULE AND QUANTITIES.
3. FINAL PLANT LOCATIONS TO BE VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL PLANTING BED EDGES SHALL BE A CULTIVATED EDGE. SEE DETAIL 6 ON SHEET L-100.
5. ALL LANDSCAPE AREAS (EXCLUDING SOD) ARE TO BE MULCHED WITH A 3" DEEP LAYER OF BROWN HARDWOOD MULCH AT THE CONCLUSION OF THE PLANTING OPERATIONS. MULCH SHALL BE DOUBLE GROUND, HARDWOOD, 1" DIAMETER IN SIZE OR SMALLER.

LANDSCAPE LEGEND

| TREES | CODE | BOTANICAL NAME | COMMON NAME |
|------------------|-------------|---|----------------------------------|
| | AB | <i>Acer rubrum</i> 'Brandywine' | Brandywine Red Maple |
| | AA | <i>Acer rubrum</i> 'Armstrong' | Armstrong Red Maple |
| | GP | <i>Ginkgo biloba</i> 'Princeton Sentry' | Princeton Sentry Maidenhair Tree |
| | KP | <i>Koeleria paniculata</i> | Golden Rain Tree |
| | MA | <i>Malus x 'Adirondack'</i> | Adirondack Crabapple |
| | NW | <i>Nyssa sylvatica</i> 'Wildfire' | Black Gum |
| | UC | <i>Ulmus x 'Frontier'</i> | Frontier Elm |
| | ZM | <i>Zelkova serrata</i> 'Musashino' | Musashino Sawleaf Zelkova |
| <u>CONIFERS</u> | <u>CODE</u> | <u>BOTANICAL NAME</u> | <u>COMMON NAME</u> |
| | PB | <i>Picea pungens</i> 'Baby Blue' | Baby Blue Colorado Spruce |
| | TS | <i>Thuja occidentalis</i> 'Smaragd' | Emerald Green Arborvitae |
| <u>SHRUBS</u> | <u>CODE</u> | <u>BOTANICAL NAME</u> | <u>COMMON NAME</u> |
| | Ca | <i>Cornus sericea</i> 'Artic Fire' | Artic Fire Dogwood |
| | Ec | <i>Euonymus alatus</i> 'Compactus' | Compact Burning Bush |
| | Ho | <i>Hemerocallis x 'Stella de Oro'</i> | Stella de Oro Daylily |
| | Hf | <i>Hosta x 'First Frost'</i> | First Frost Hosta |
| | Lm | <i>Liriope muscari</i> | Lily Turf |
| | Rr | <i>Rosa x 'Knockout'</i> TM | Rose |
| <u>GRASSES</u> | <u>CODE</u> | <u>BOTANICAL NAME</u> | <u>COMMON NAME</u> |
| | Ck | <i>Calamagrostis x acutiflora</i> 'Karl Foerster' | Feather Reed Grass |
| | Sh | <i>Sporobolus heterolepis</i> | Prairie Dropseed |
| <u>EVERGREEN</u> | <u>CODE</u> | <u>BOTANICAL NAME</u> | <u>COMMON NAME</u> |
| | Jl | <i>Juniperus chinensis</i> 'Gold Lace' | Gold Lace Juniper |
| <u>SOD/SEED</u> | <u>CODE</u> | <u>BOTANICAL NAME</u> | <u>COMMON NAME</u> |
| | Fa | <i>Festuca arundinacea</i> 90% Fescue, 10% Bluegrass Mix | Tall Fescue |



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KYLE WARD - LANDSCAPE ARCHITECT
MO# PLA-2016002020

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| PROJECT NO: | 18225R21001 |
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| DATE: | 10.26.2022 |
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| DRAWN BY: | KDW |
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LANDSCAPE

LANDSCAPE TEAM

PLAN

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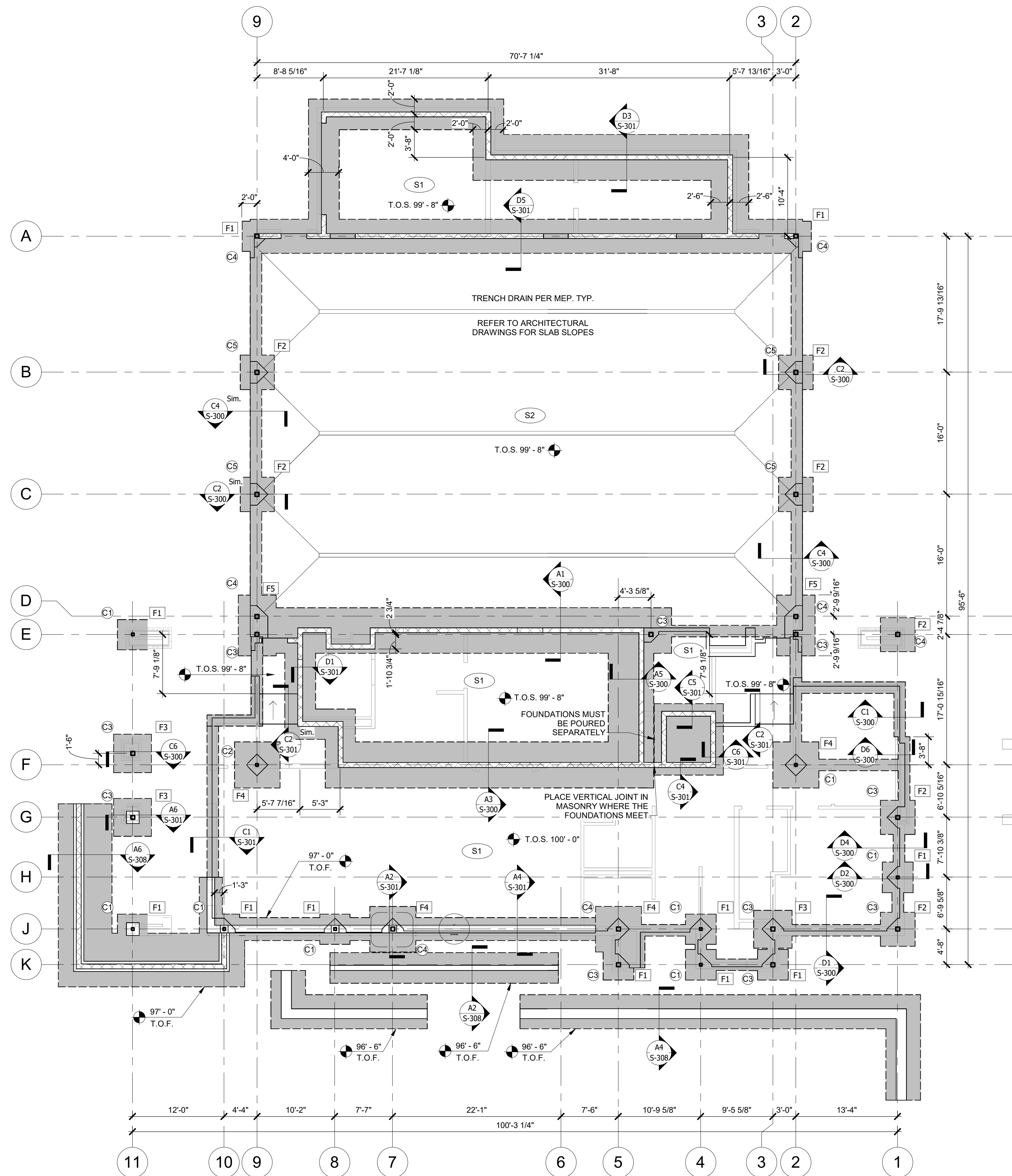
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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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FILE PATH: BM 360/18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT_F5S.mt



A1 APP BAY FF
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. TOP OF CONCRETE SLAB ELEVATION = 100'-0" U.N.O.
2. SLAB REINFORCEMENT PER SCHEDULE
3. SLAB CONTROL AND CONSTRUCTION JOINTS PER TYPICAL DETAILS. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
4. ISOLATION JOINTS PER DETAIL 11/S-402
5. FOOTING STEPS PER DETAIL 13/S-402
6. CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
7. DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
8. REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
9. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR RETAINING WALL AND RAMP LOCATION AND ELEVATION INFORMATION.
10. GENERATOR PADS TO BE 12" THICK CONCRETE W/ #5 @ 8" O.C. EACH WAY TOP AND BOTTOM, REFER TO MANUFACTURER'S INFORMATION FOR REQUIRED PAD SIZE. REFER TO CIVIL & MEP DRAWINGS FOR LOCATIONS.

STRUCTURAL FOUNDATION SCHEDULE

| MARK | LENGTH | WIDTH | DEPTH | REINFORCEMENT |
|------|---------|---------|---------|--------------------|
| F1 | 4' - 0" | 4' - 0" | 2' - 4" | #6 @ 8" O.C. EW TB |
| F2 | 4' - 6" | 4' - 6" | 2' - 4" | #6 @ 8" O.C. EW TB |
| F3 | 5' - 0" | 5' - 0" | 2' - 4" | #6 @ 8" O.C. EW TB |
| F4 | 6' - 0" | 6' - 0" | 2' - 4" | #6 @ 8" O.C. EW TB |
| F5 | 8' - 0" | 5' - 0" | 2' - 4" | #6 @ 8" O.C. EW TB |

STRUCTURAL COLUMN SCHEDULE

| MARK | COLUMN |
|------|------------|
| C1 | HSS4X4X3/8 |
| C2 | HSS4X4X1/2 |
| C3 | HSS6X6X3/8 |
| C4 | HSS6X6X1/2 |
| C5 | HSS6X6X5/8 |

SLAB SCHEDULE

| MARK | TYPE | REINFORCEMENT |
|------|-----------------------|-----------------------|
| S1 | 4" SLAB ON GRADE | #4 @ 16" O.C. E.W. |
| S2 | 8" SLAB ON GRADE | #6 @ 18" O.C. E.W. |
| S3 | 12" STORM SHELTER LID | #5 @ 8" O.C. T/B E.W. |



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PROJECT NO: 18225R21001

DATE: 11.16.2022

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CHKD BY: WNH

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**FOUNDATION
PLAN**

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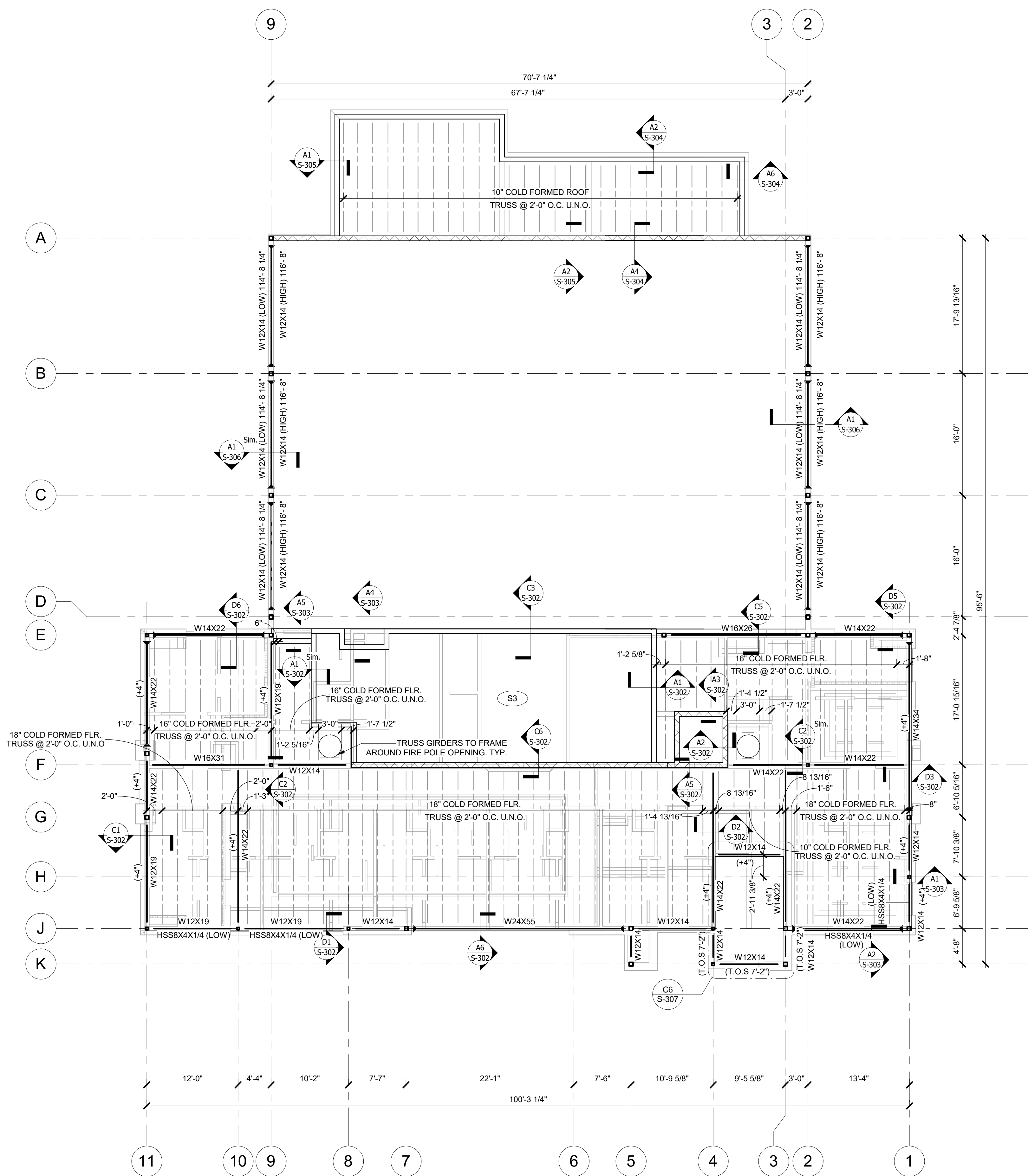
E

D

C

B

A



A1 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.58 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
5. COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
6. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
7. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS LONG AS THE MAX SPACING IS UPHELD.

FLOOR FRAMING PLAN NOTES:

1. T.O.S. 112'-1"
2. FLOOR DECK 0.6C 22GA. METAL DECK W/ 3" TOTAL DEPTH CONCRETE FASTENED TO SUPPORTS USING #10 SCREWS IN A 36/4 PATTERN W/ (3) # 10 SCREW SIDE LAP FASTENERS PER SPAN. DECK MUST SPAN A MIN. OF 2 SPANS. REINFORCE CONCRETE W/ WWF 6X6 - W1.4XW1.4
3. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
4. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
5. NON-LOAD BEARING WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF FLOOR FRAMING.
6. COLD FORMED FLOOR JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
7. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
8. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

| SLAB SCHEDULE | | |
|---------------|-----------------------|-----------------------|
| MARK | TYPE | REINFORCEMENT |
| S1 | 4" SLAB ON GRADE | #4 @ 16" O.C. E.W. |
| S2 | 8" SLAB ON GRADE | #6 @ 18" O.C. E.W. |
| S3 | 12" STORM SHELTER LID | #5 @ 8" O.C. T/B E.W. |



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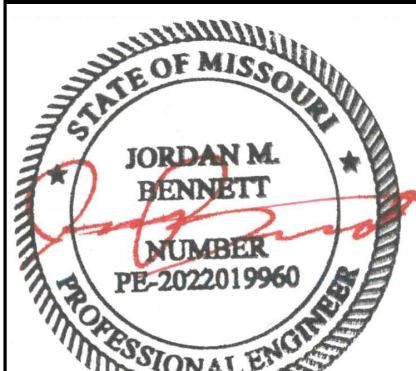
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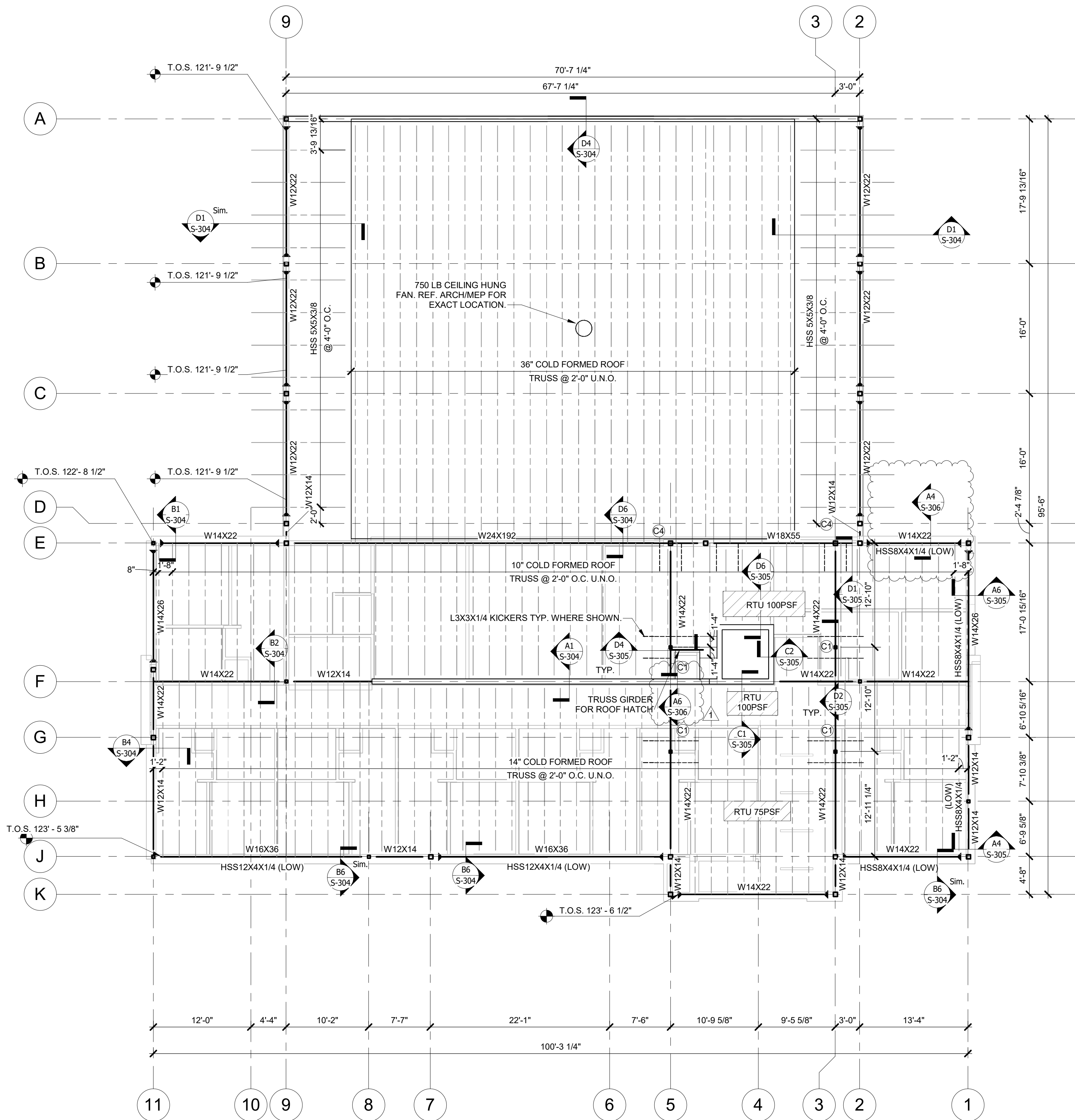
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LEVEL 2
FRAMING PLAN

S-101

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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
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7. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

| STRUCTURAL COLUMN SCHEDULE | |
|----------------------------|------------|
| MARK | COLUMN |
| C1 | HSS4X4X3/8 |
| C2 | HSS4X4X1/2 |
| C3 | HSS6X6X3/8 |
| C4 | HSS6X6X1/2 |
| C5 | HSS6X6X5/8 |



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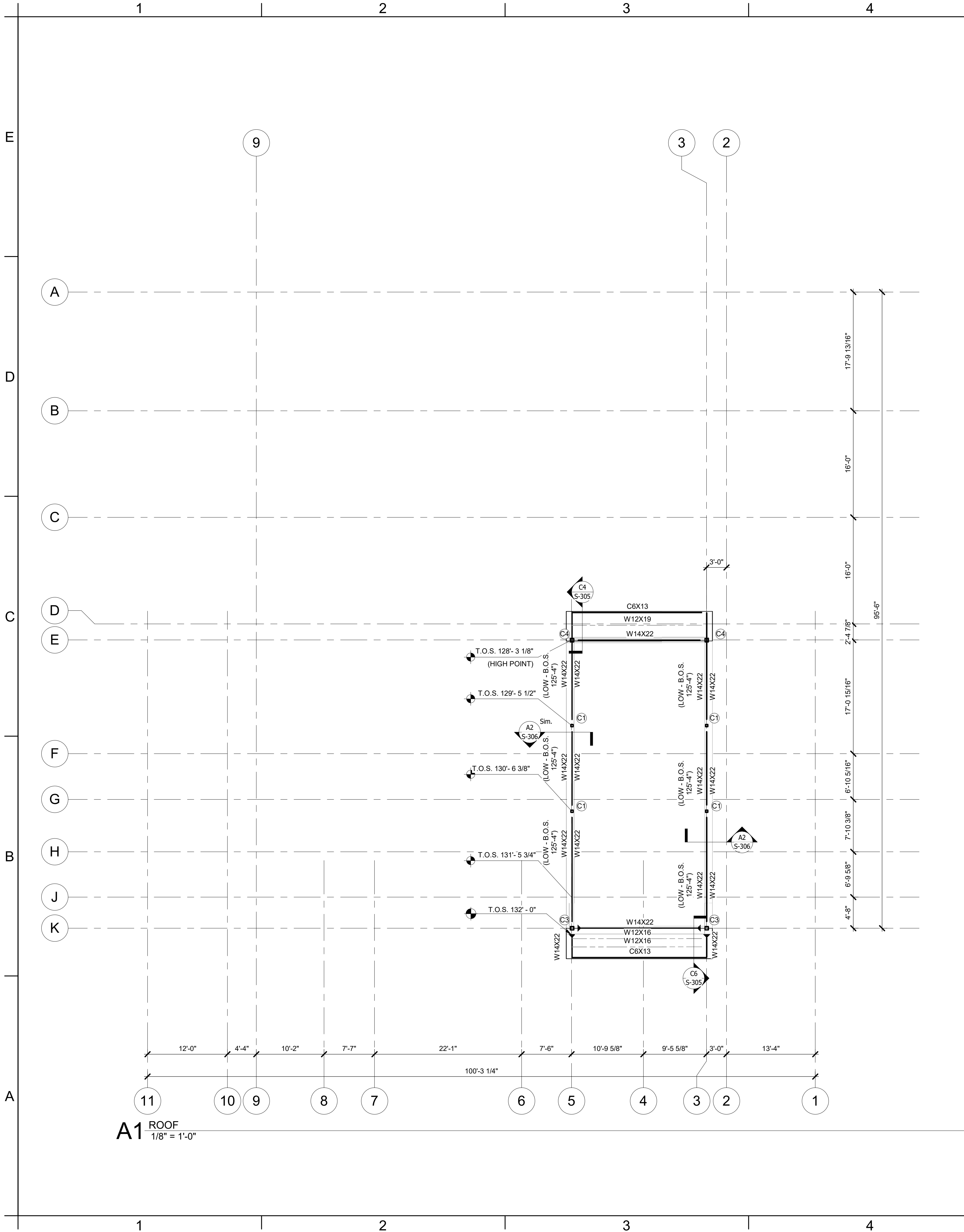
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**LOW ROOF
FRAMING PLAN**

S-103


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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 3/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
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5. COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
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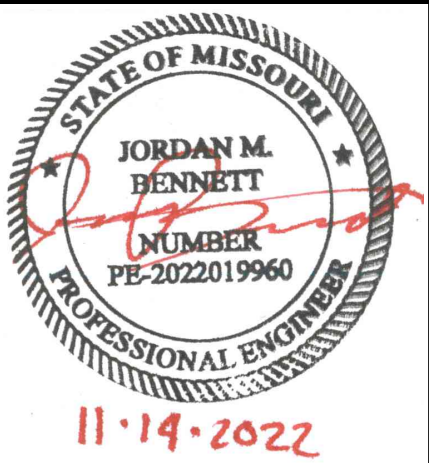
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801 MISSOURI HIGHWAY 150
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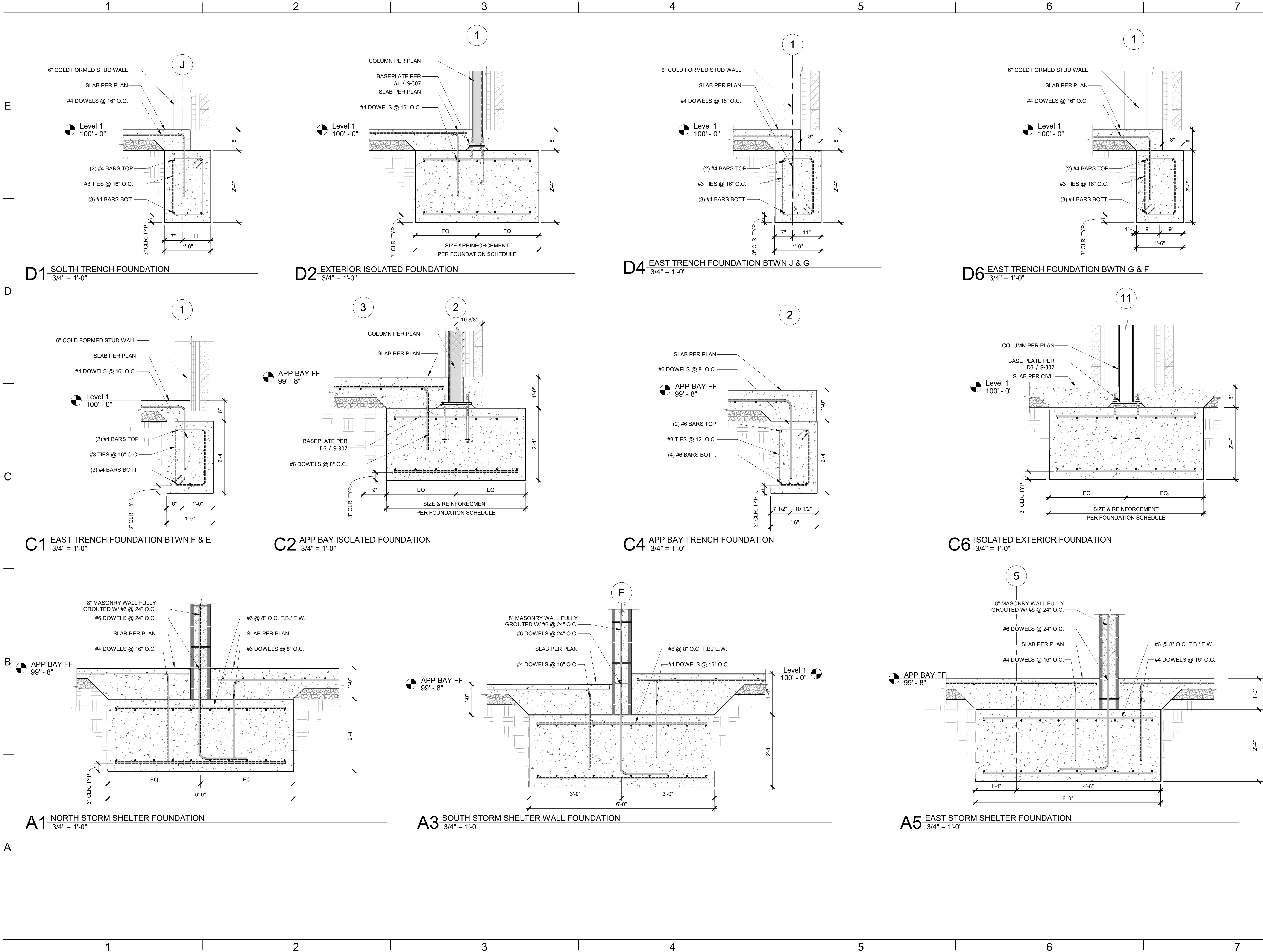
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**HIGH ROOF
FRAMING PLAN**

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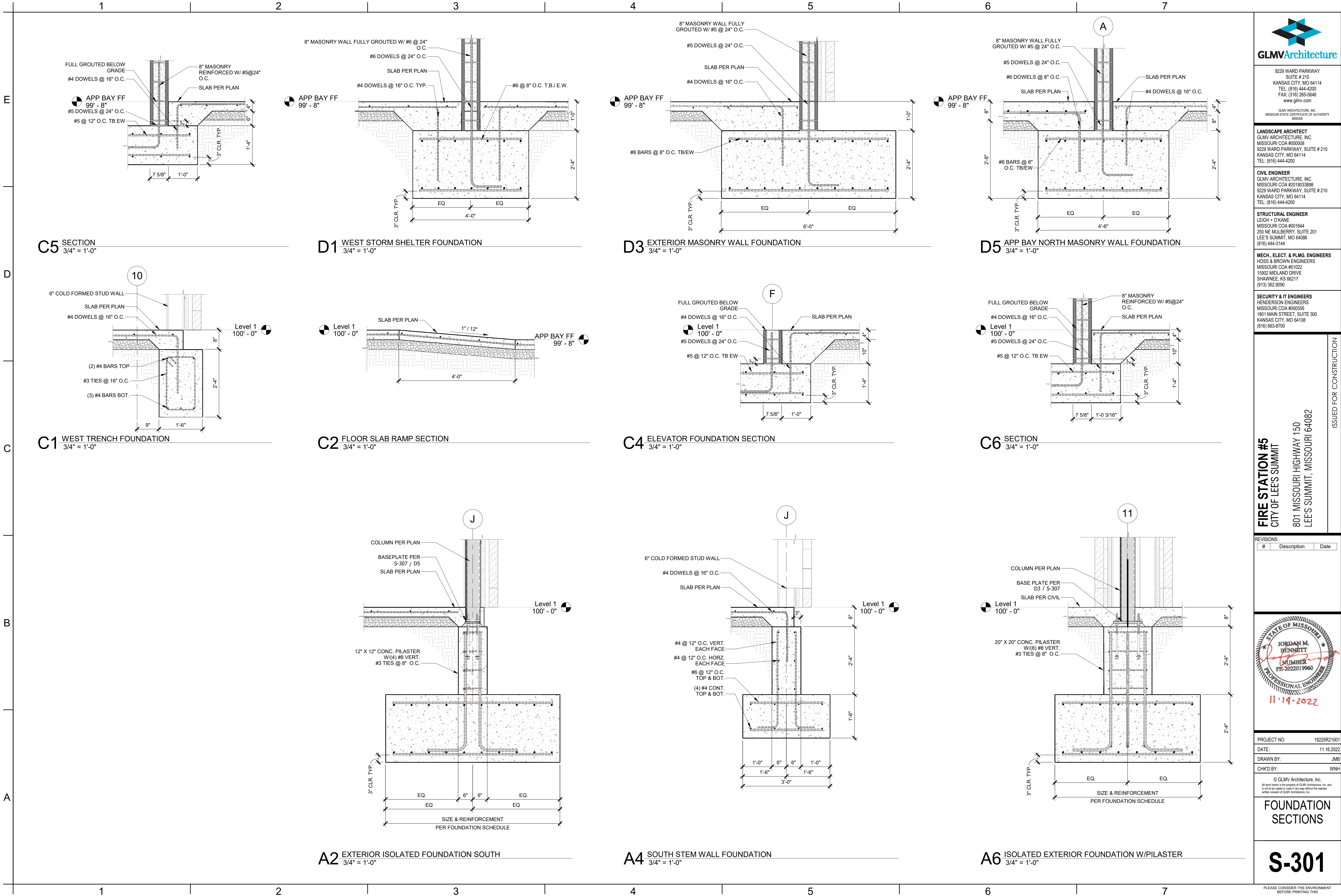
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**FOUNDATION
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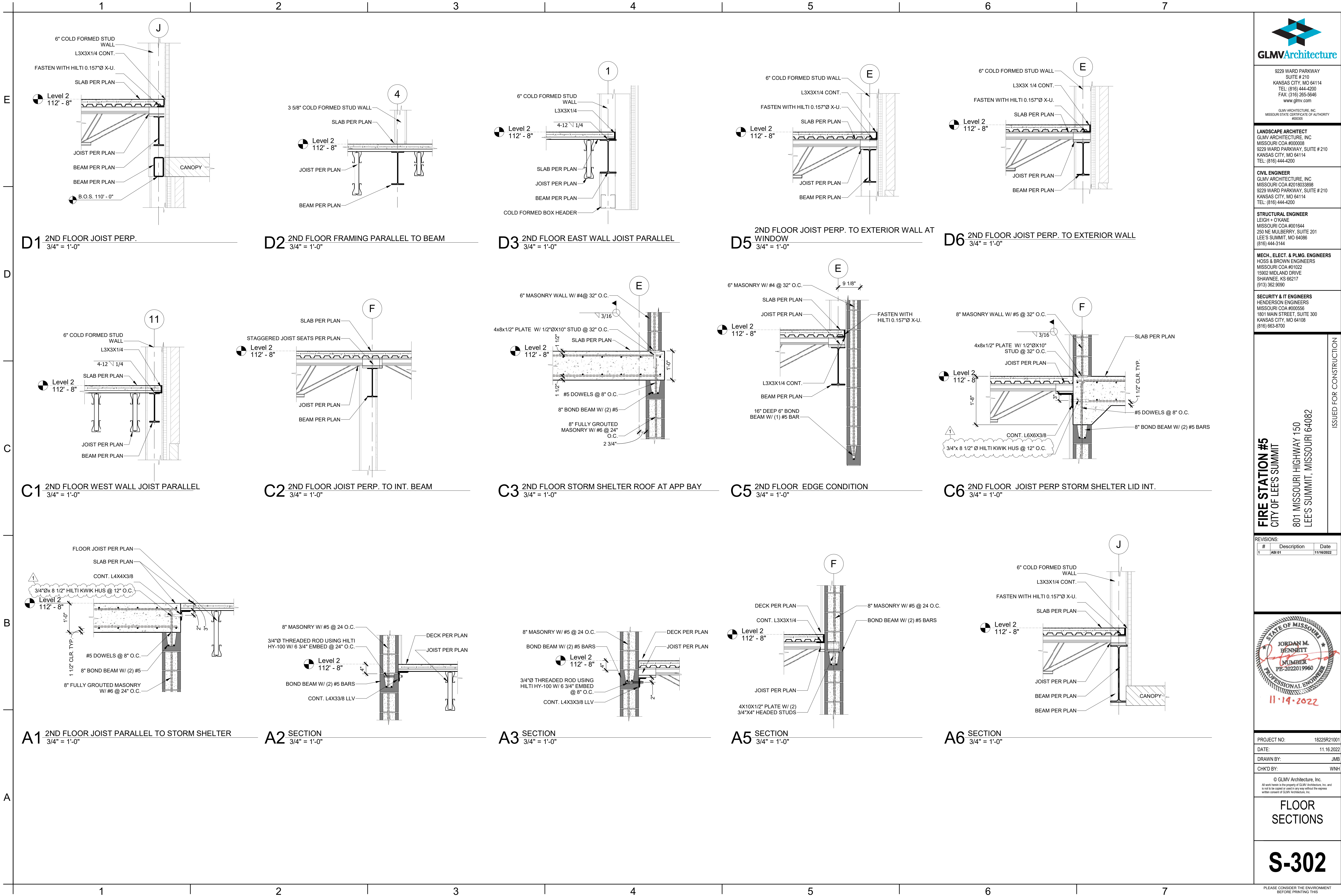
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| DATE: | 11.16.2022 |
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**FLOOR
SECTIONS**

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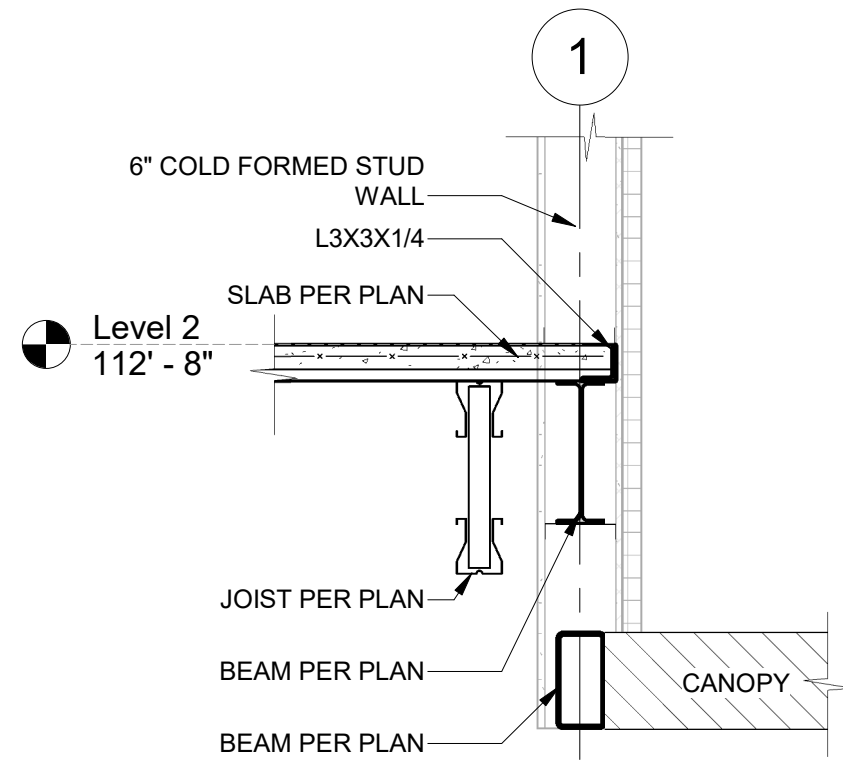
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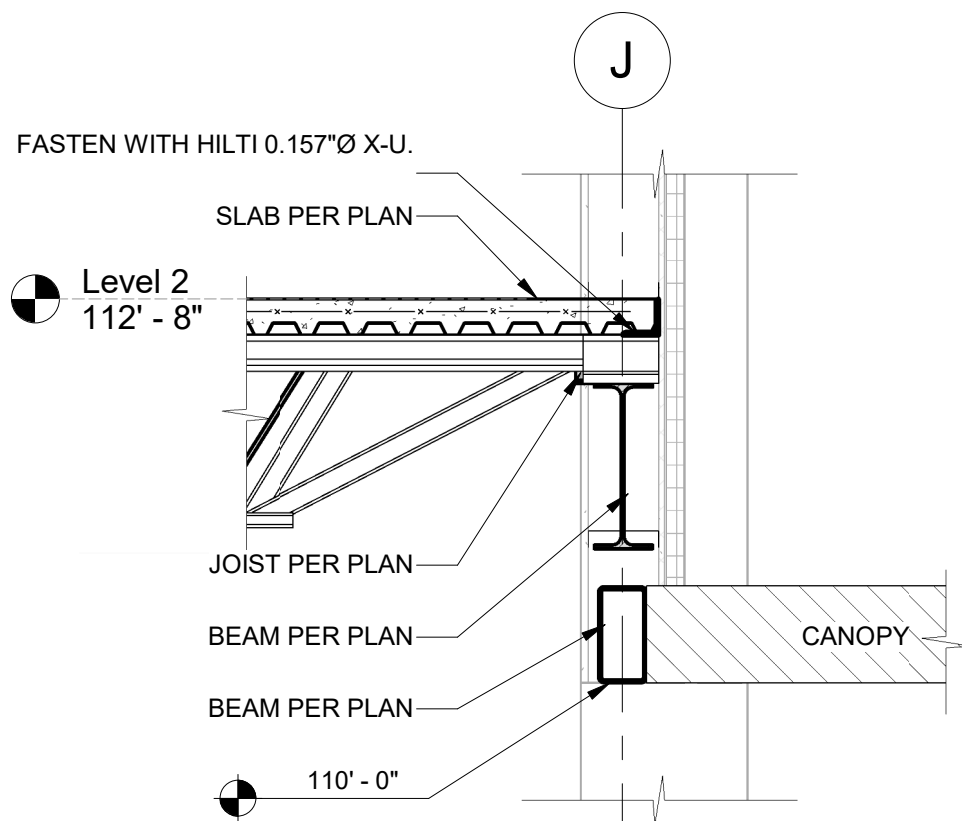
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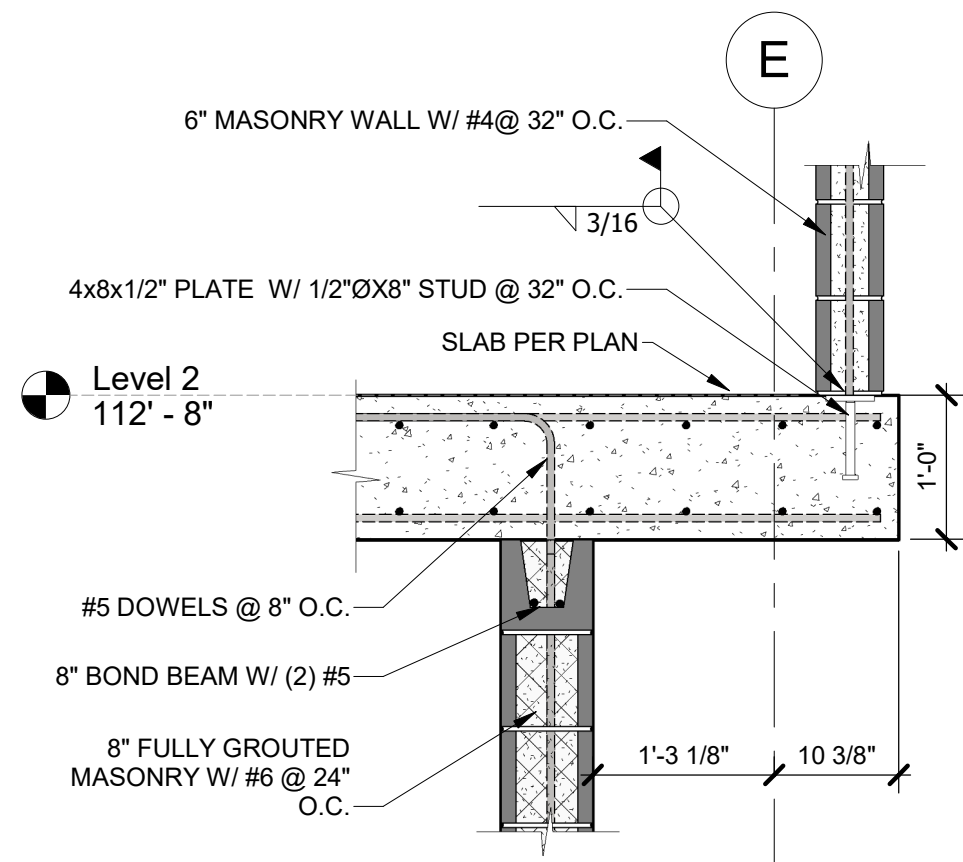
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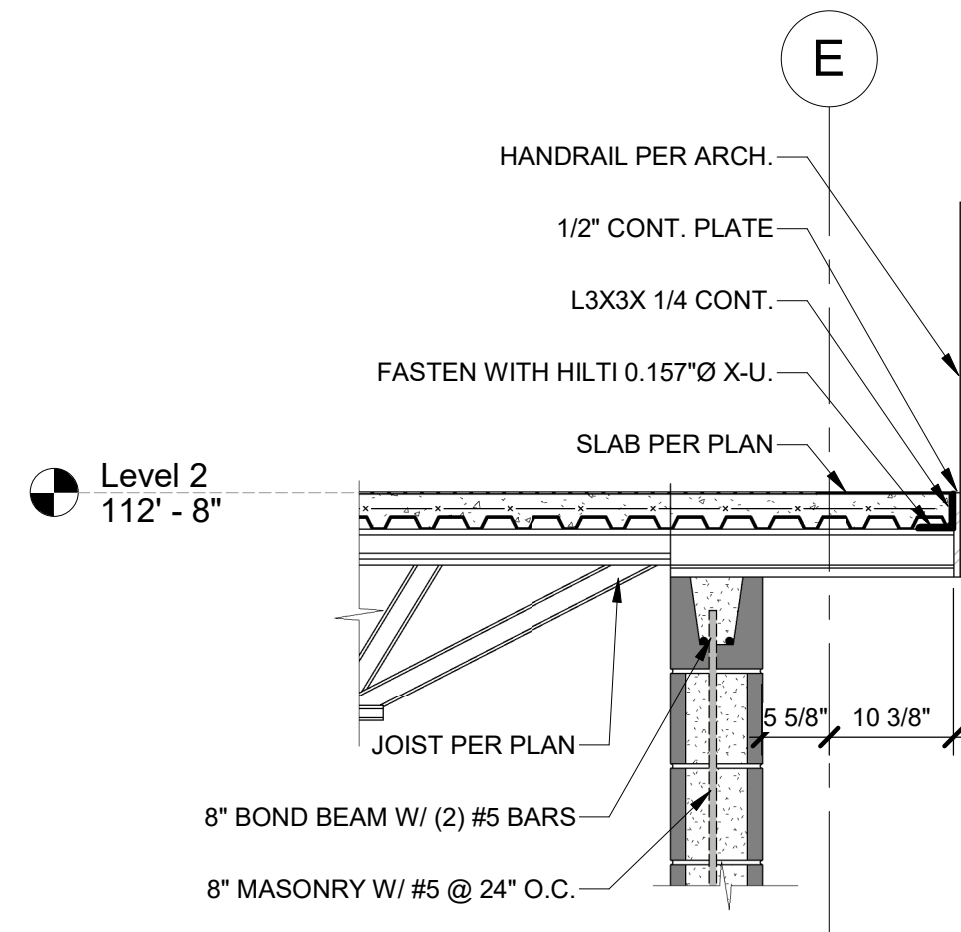
A1 SECTION
3/4" = 1'-0"



A2 SECTION
3/4" = 1'-0"



A4 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"



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DATE: 11.16.2022

DRAWN BY: JMB

CHKD BY: WNH

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**FLOOR
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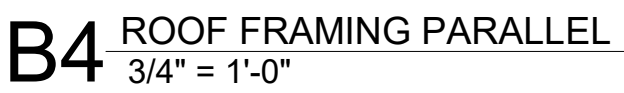
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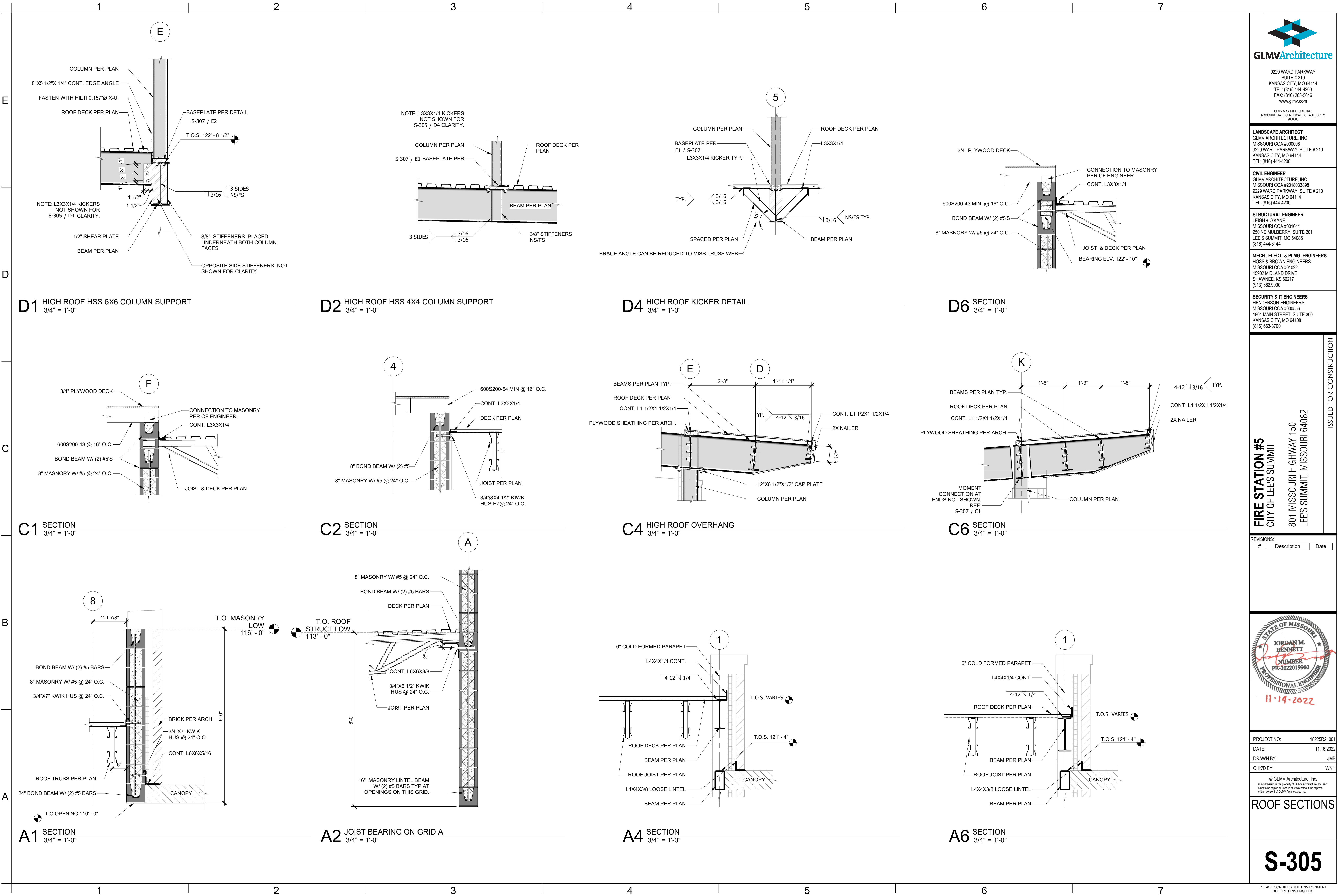
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| | 11.16.2022 |
| BY: | JMB |
| BY: | WNH |







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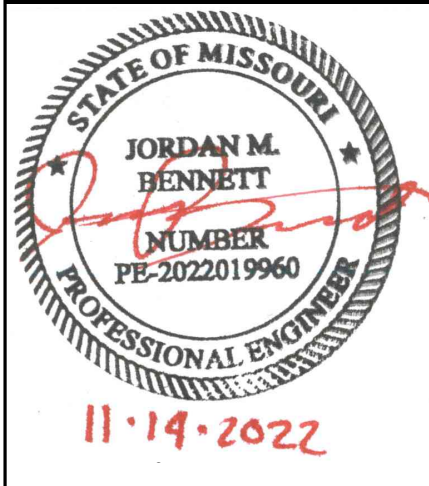
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FIRE STATION #5
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801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

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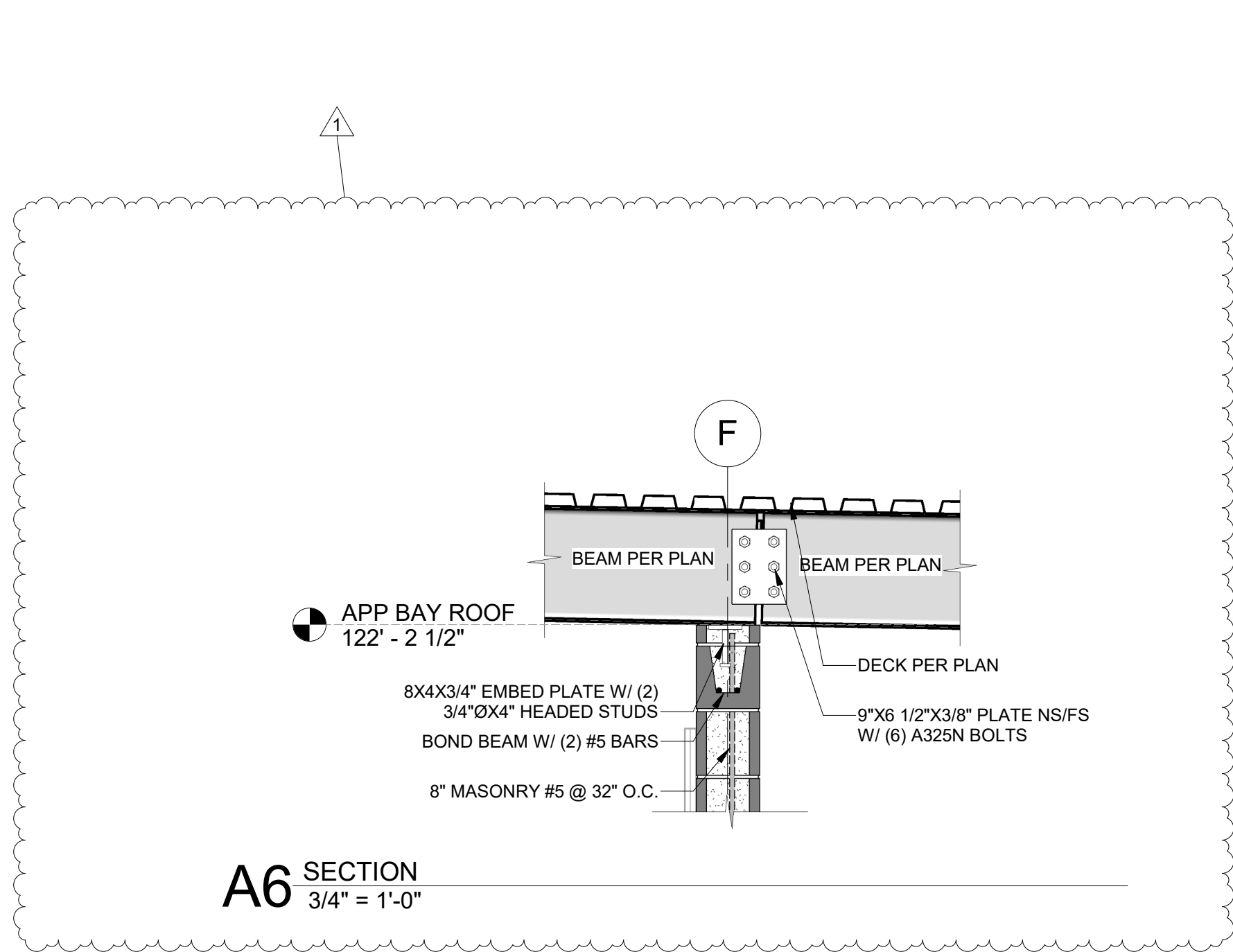
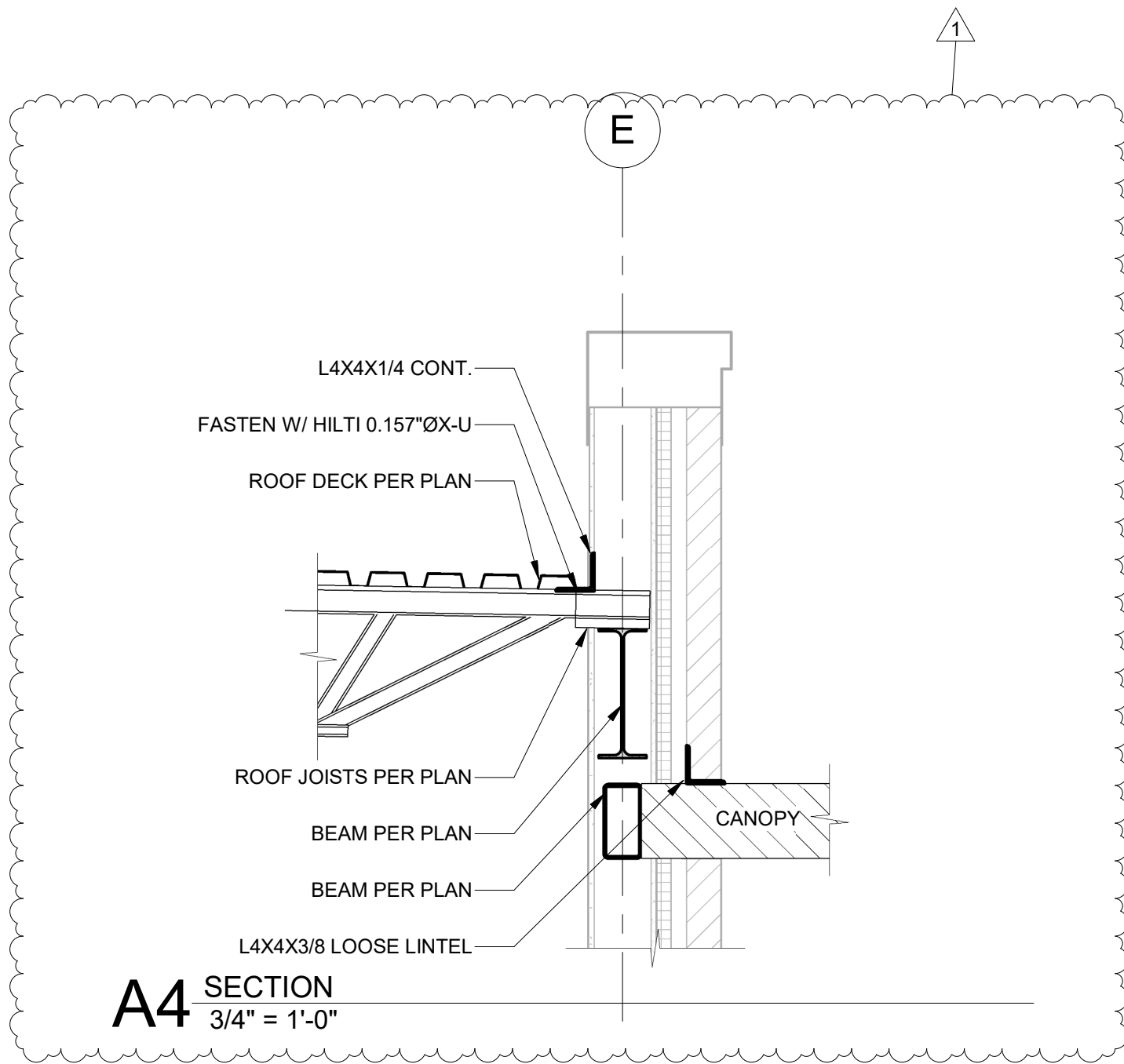
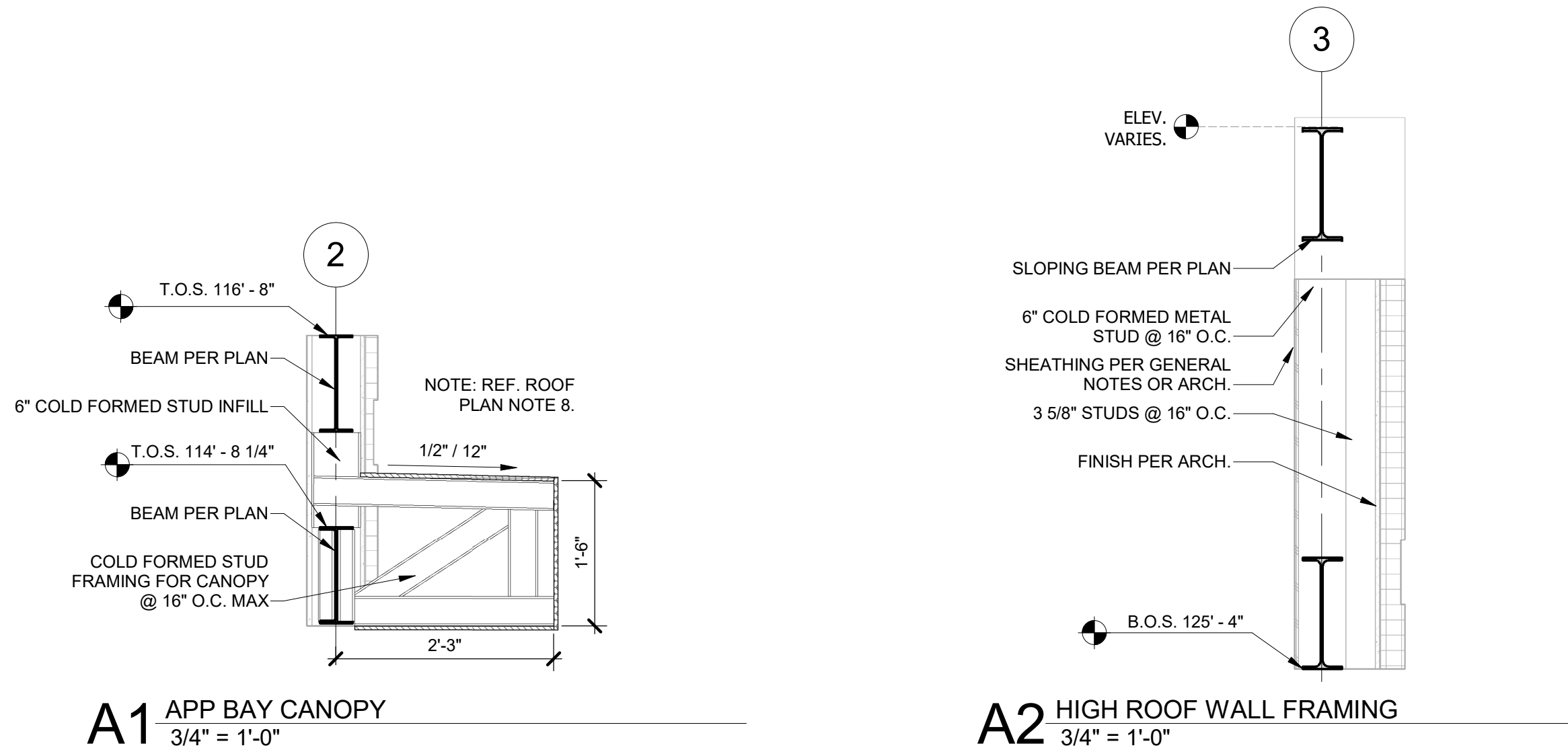
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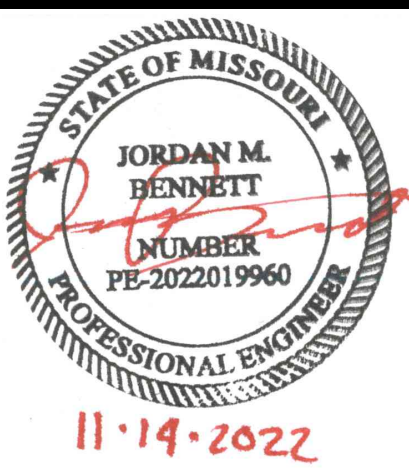
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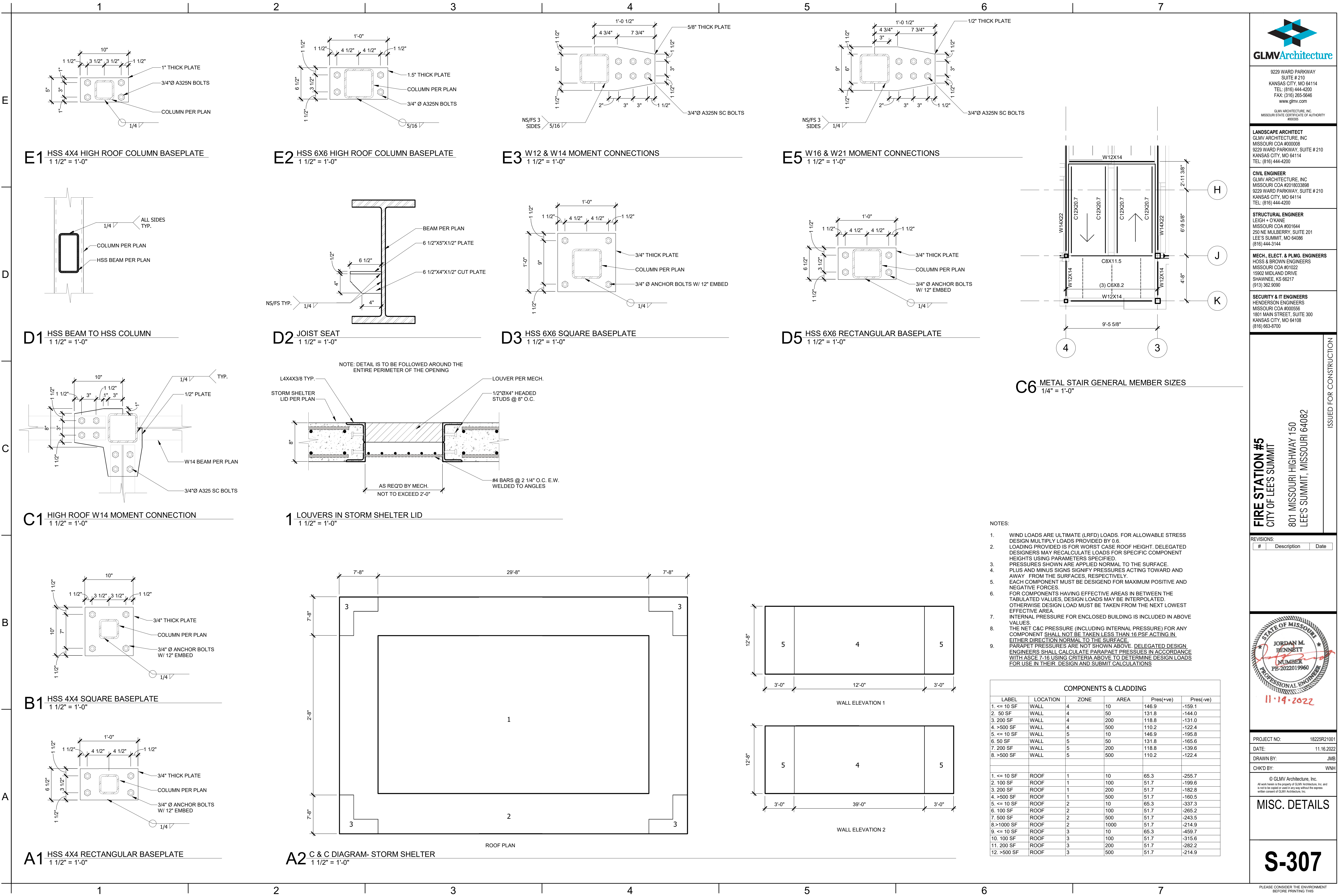
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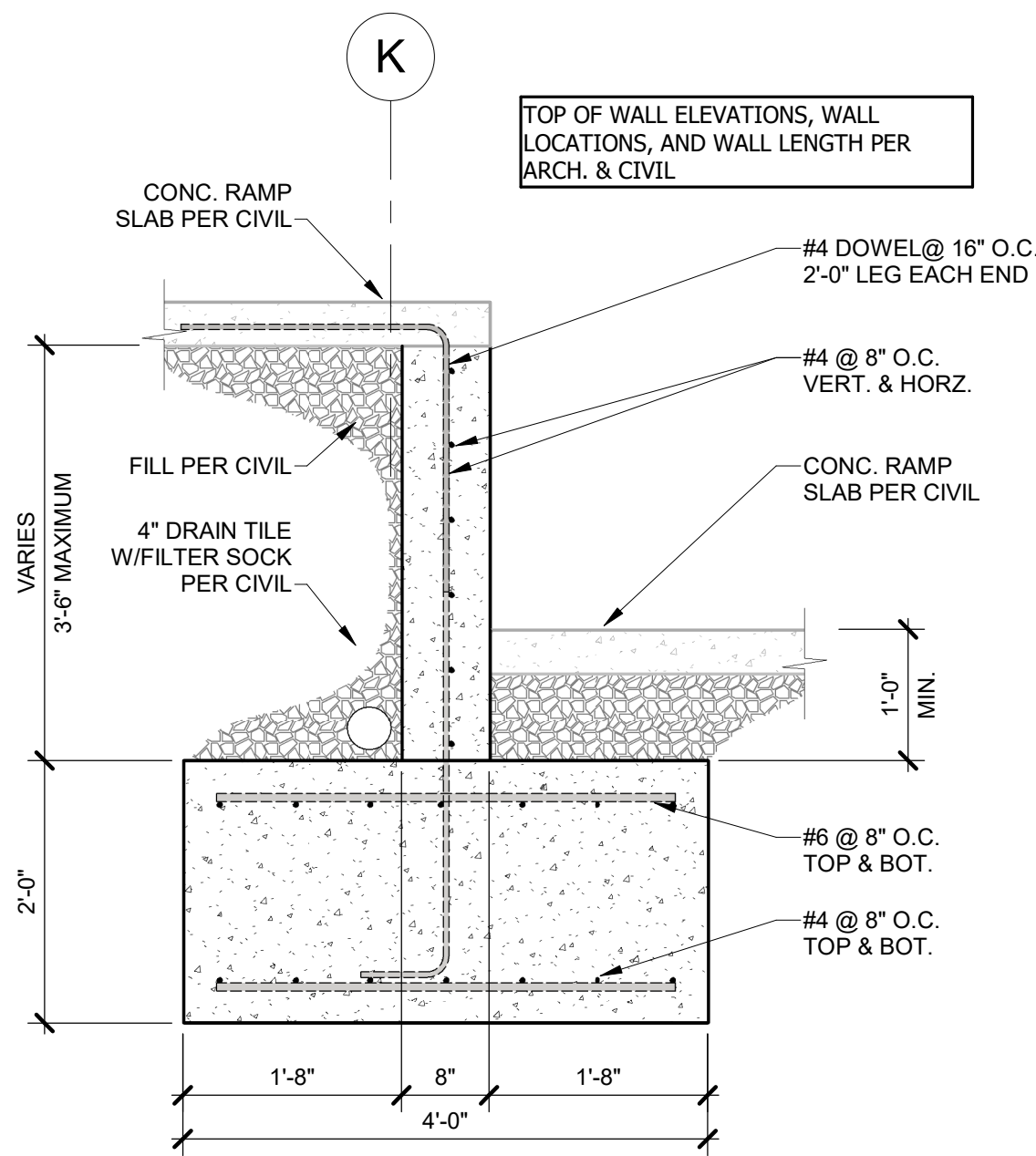
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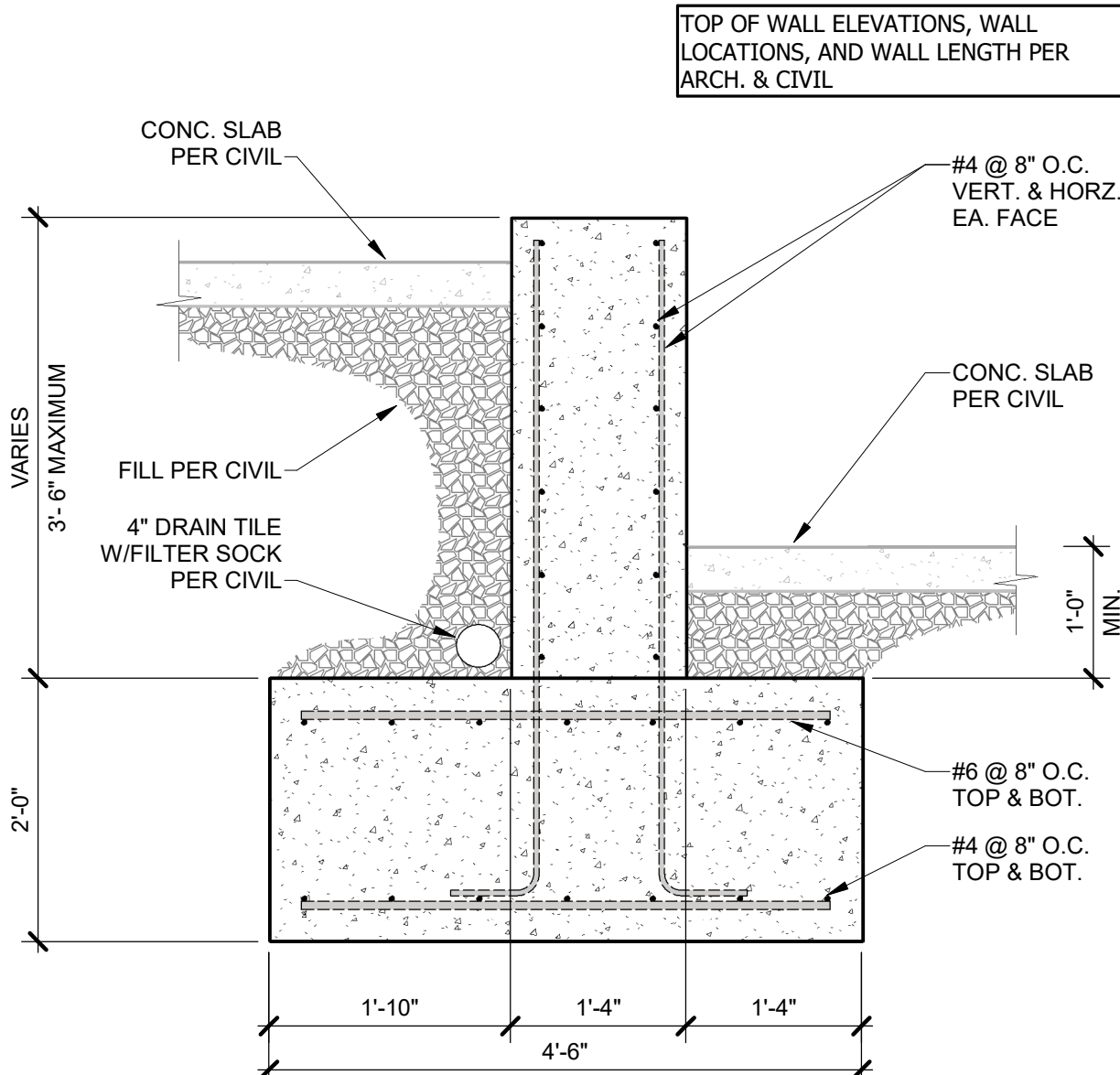
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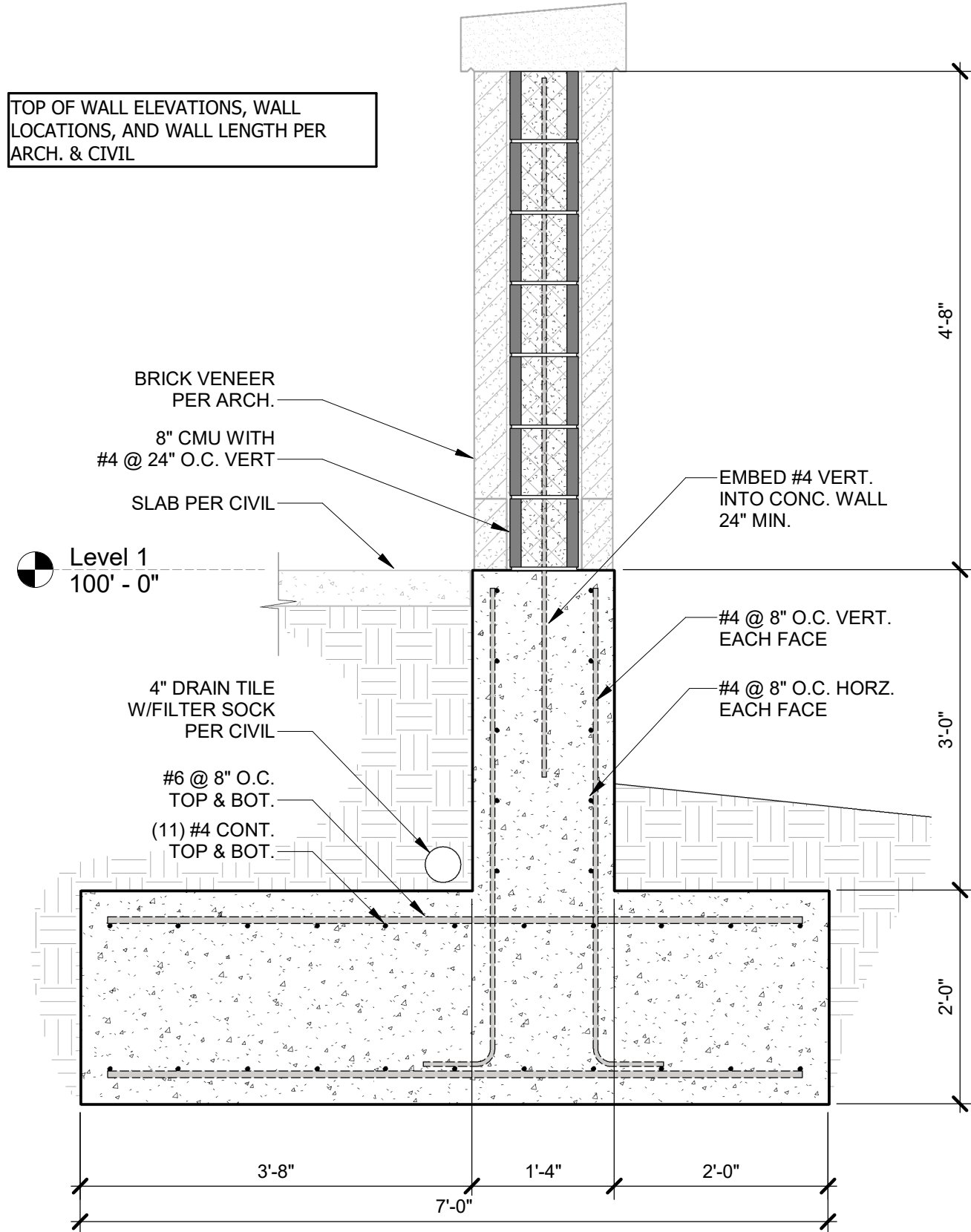
A2 RETAINING WALL BETWEEN RAMPS
3/4" = 1'-0"



A4 TYPICAL RETAINING WALL SECTION
3/4" = 1'-0"



A6 RETAINING WALL SECTION @ PATIO
3/4" = 1'-0"





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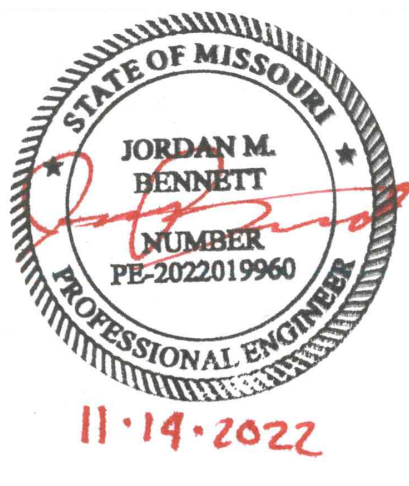
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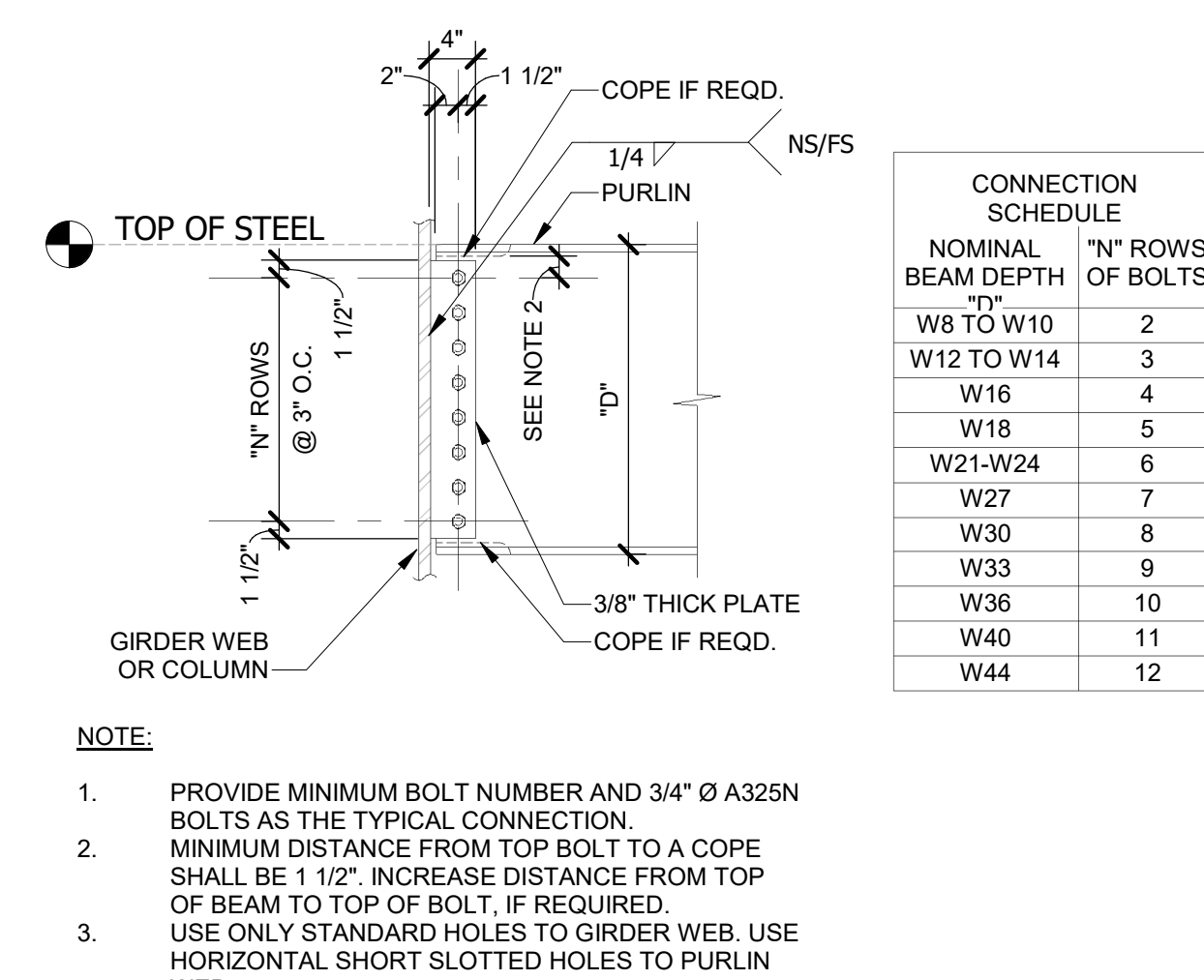
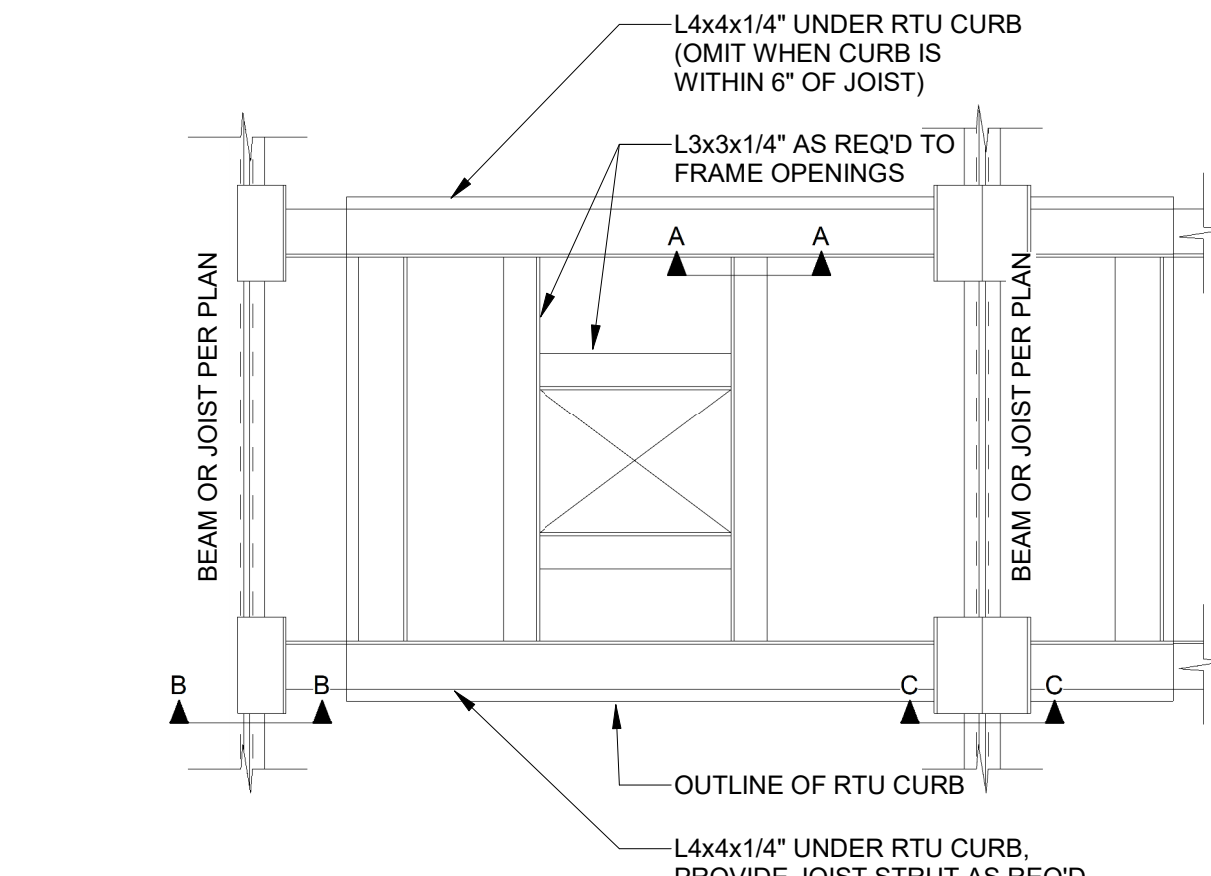
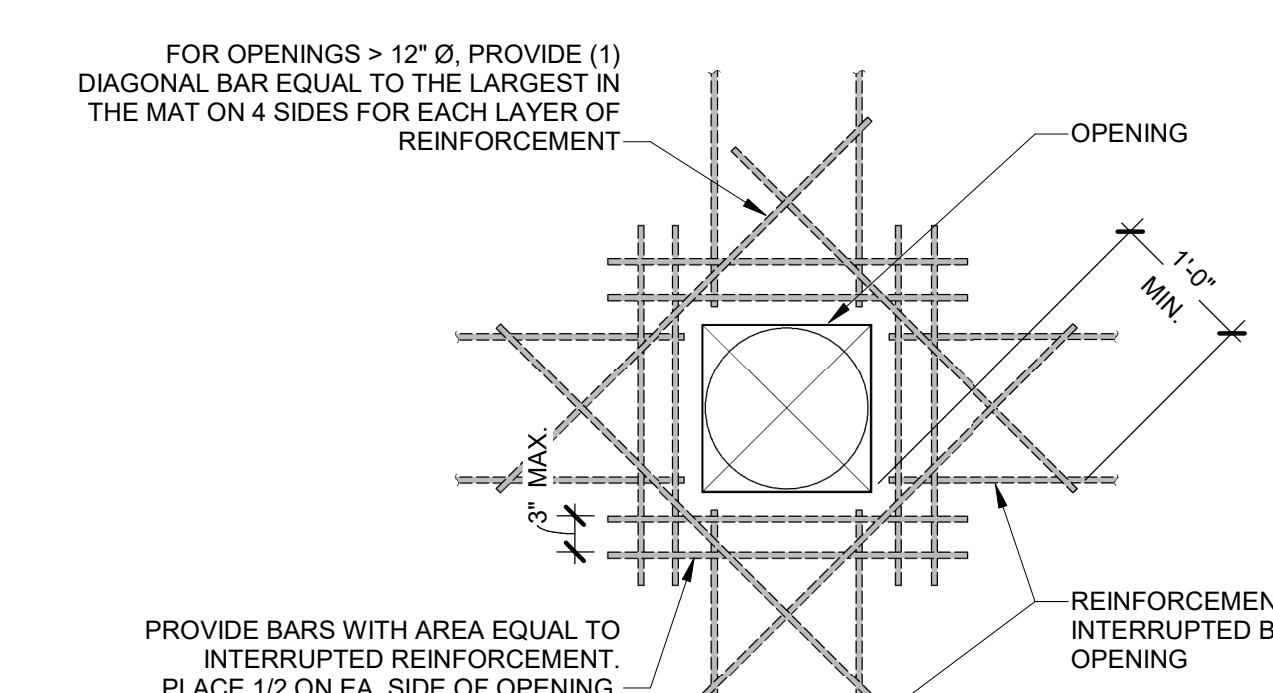
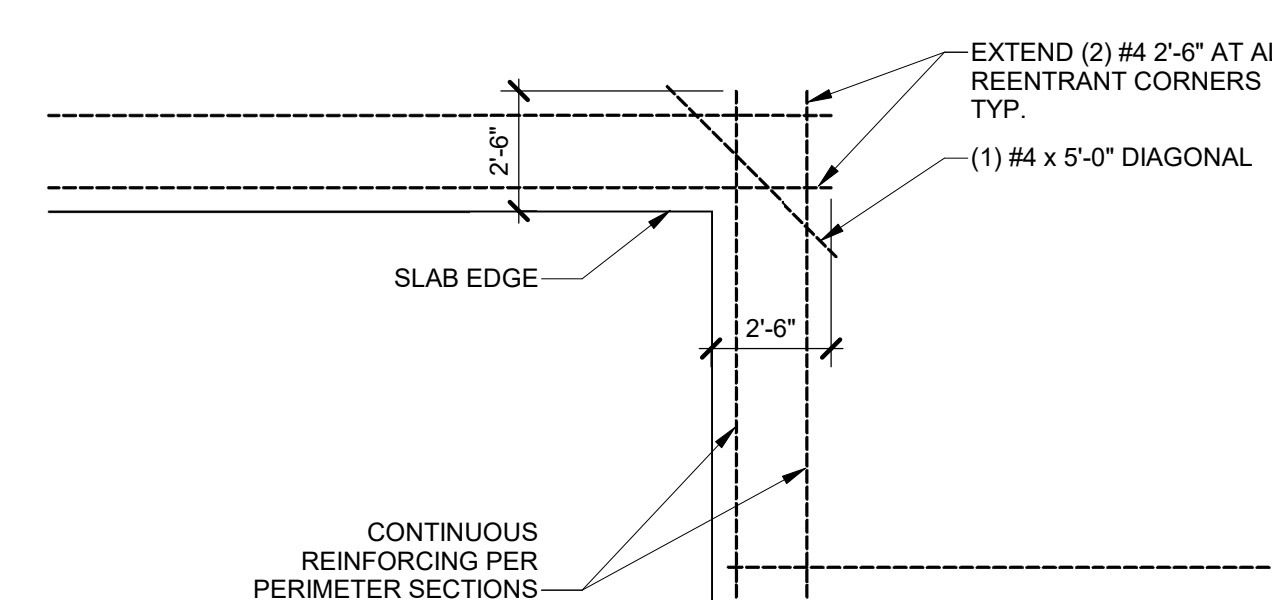
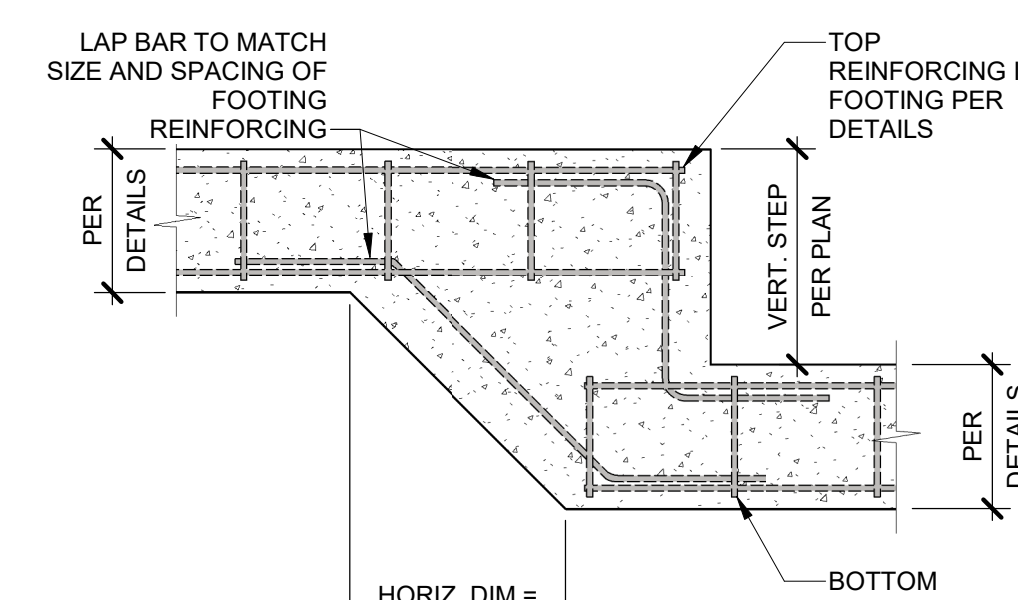
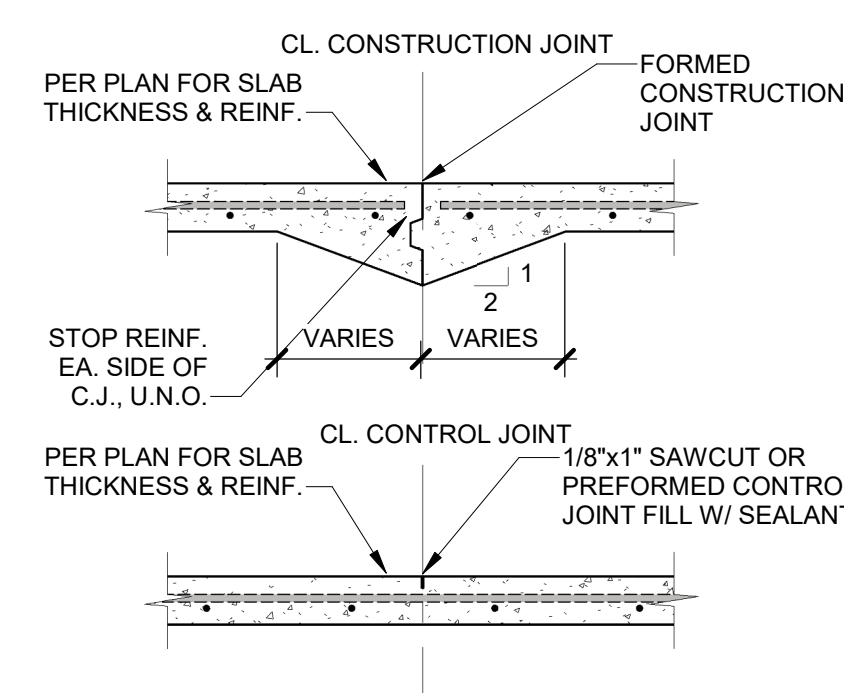
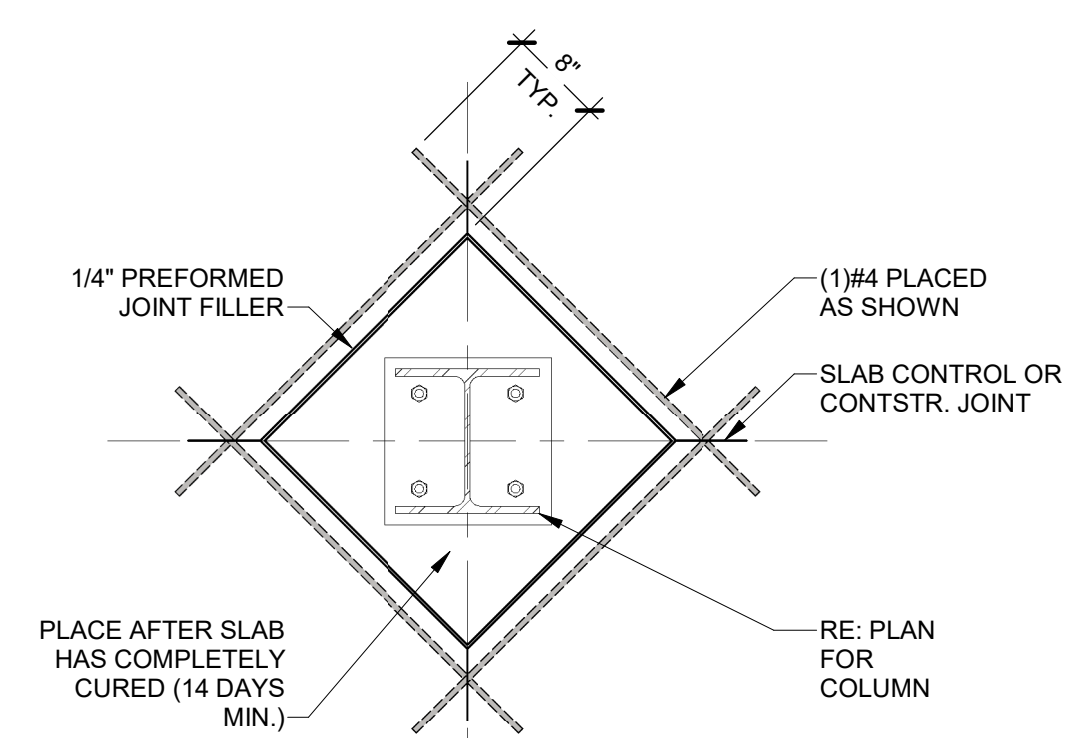
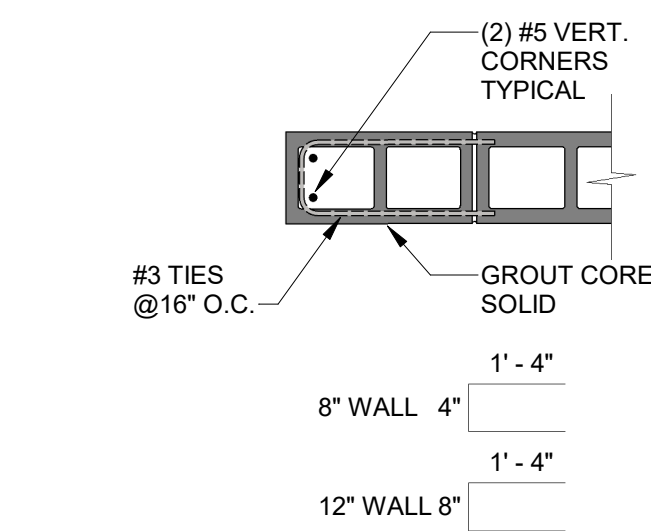
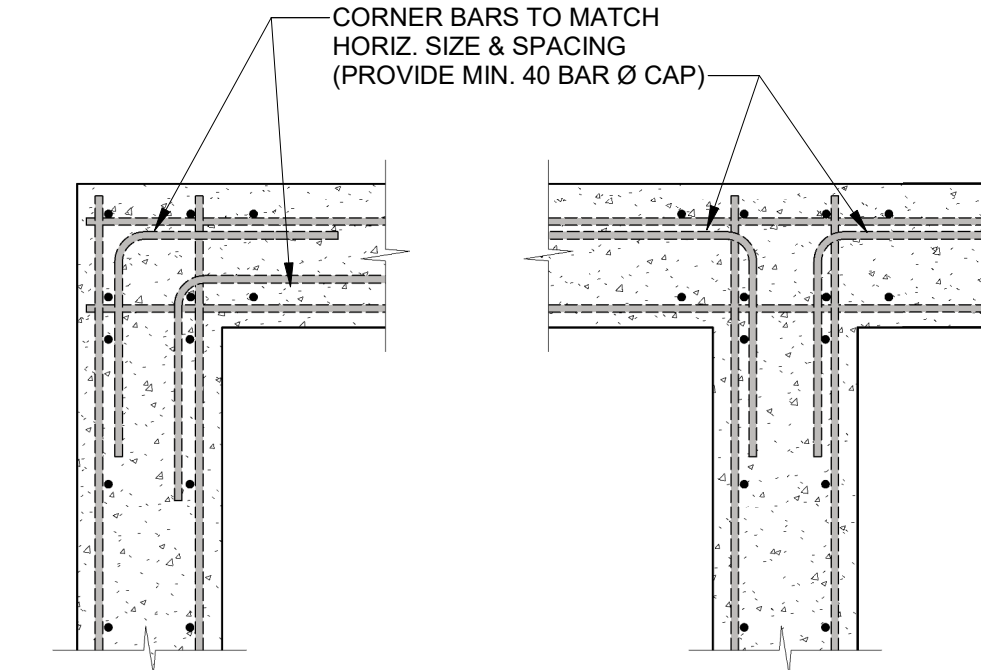
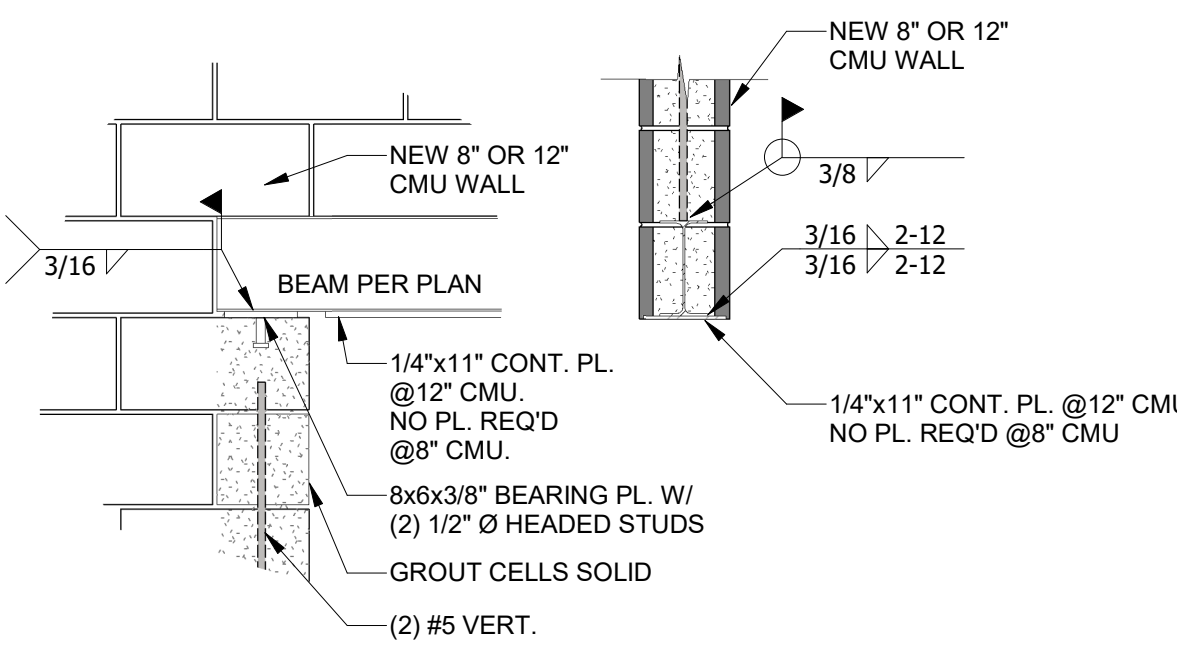
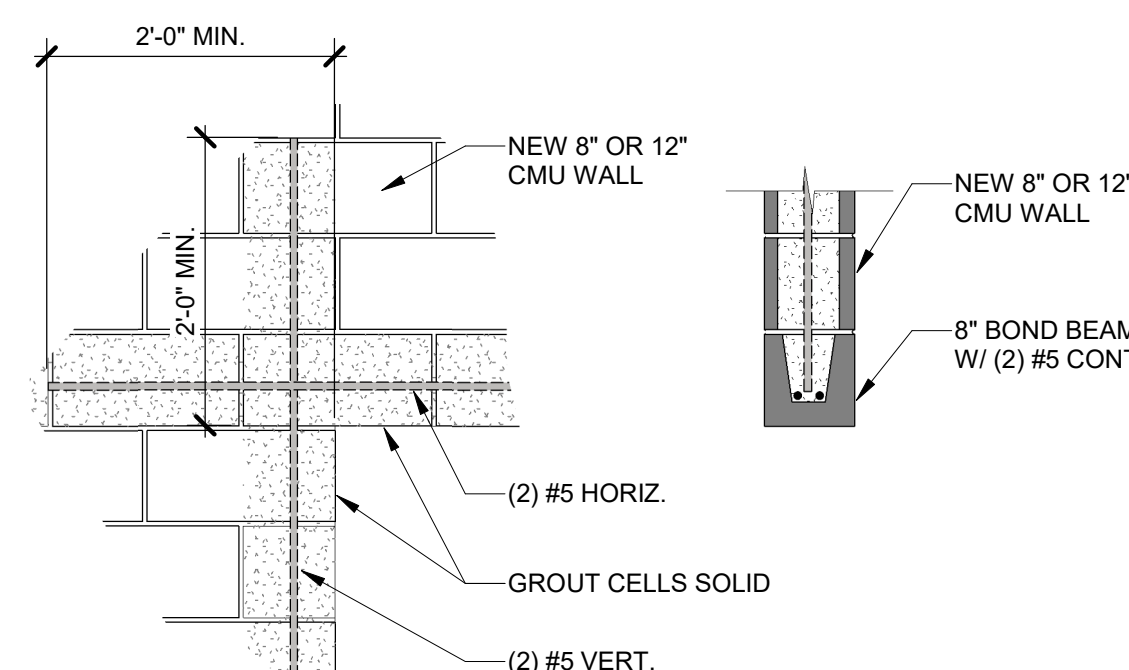
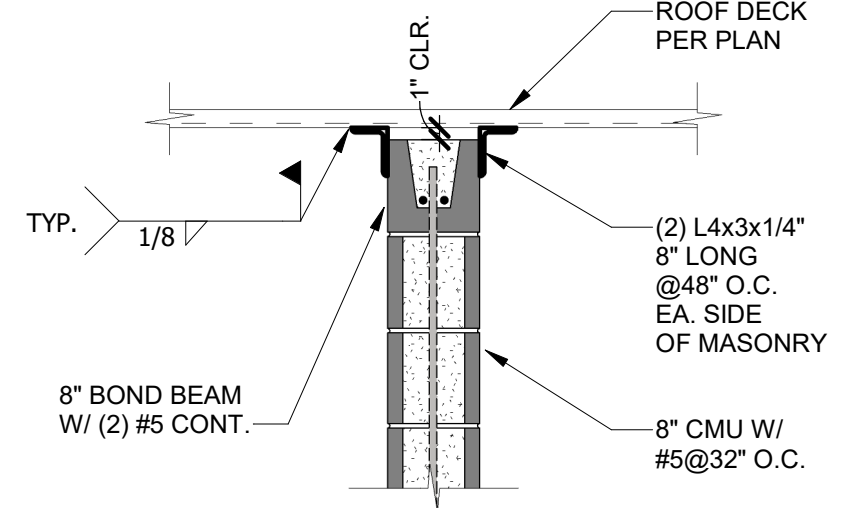
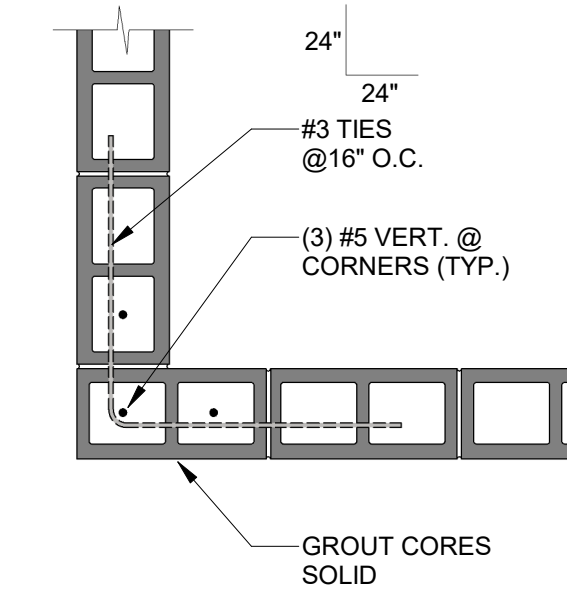
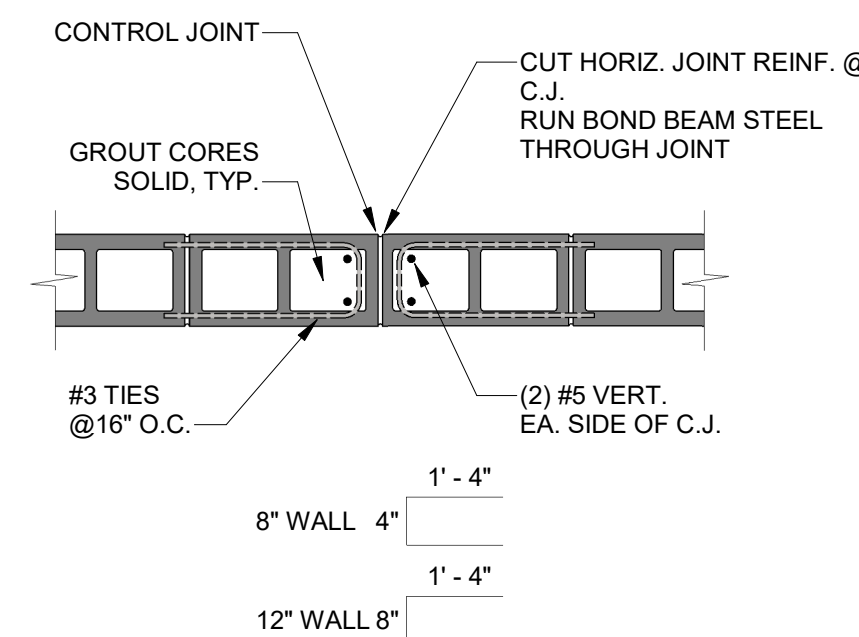
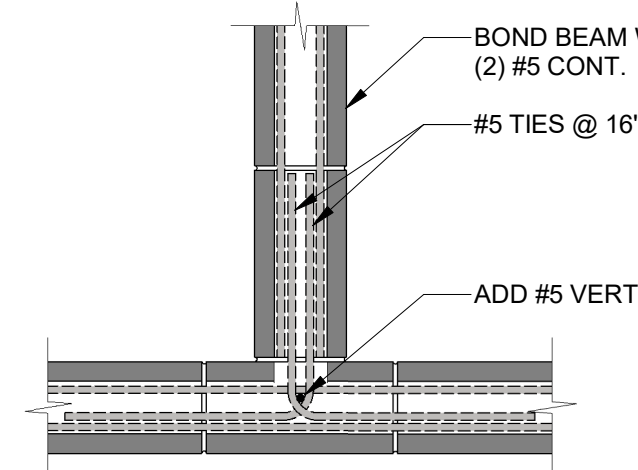
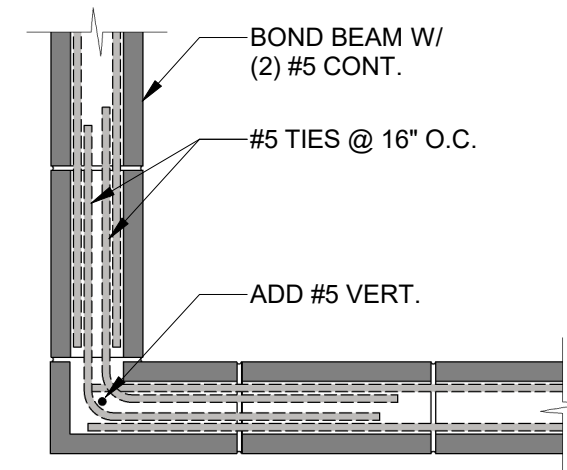
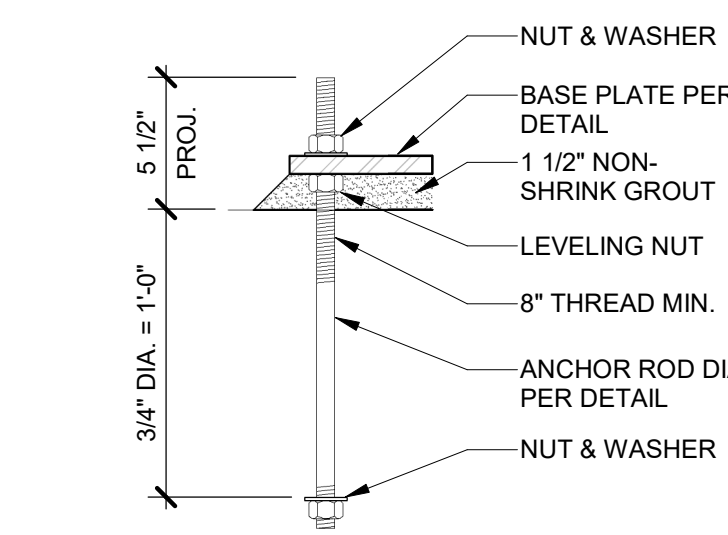
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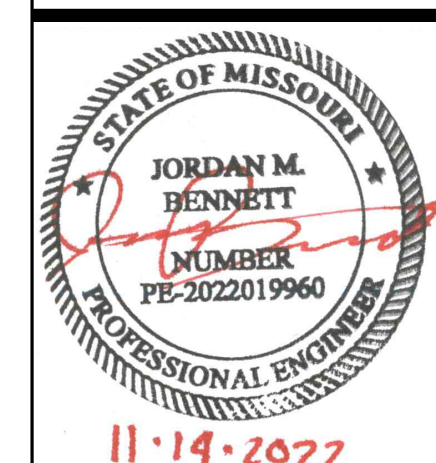
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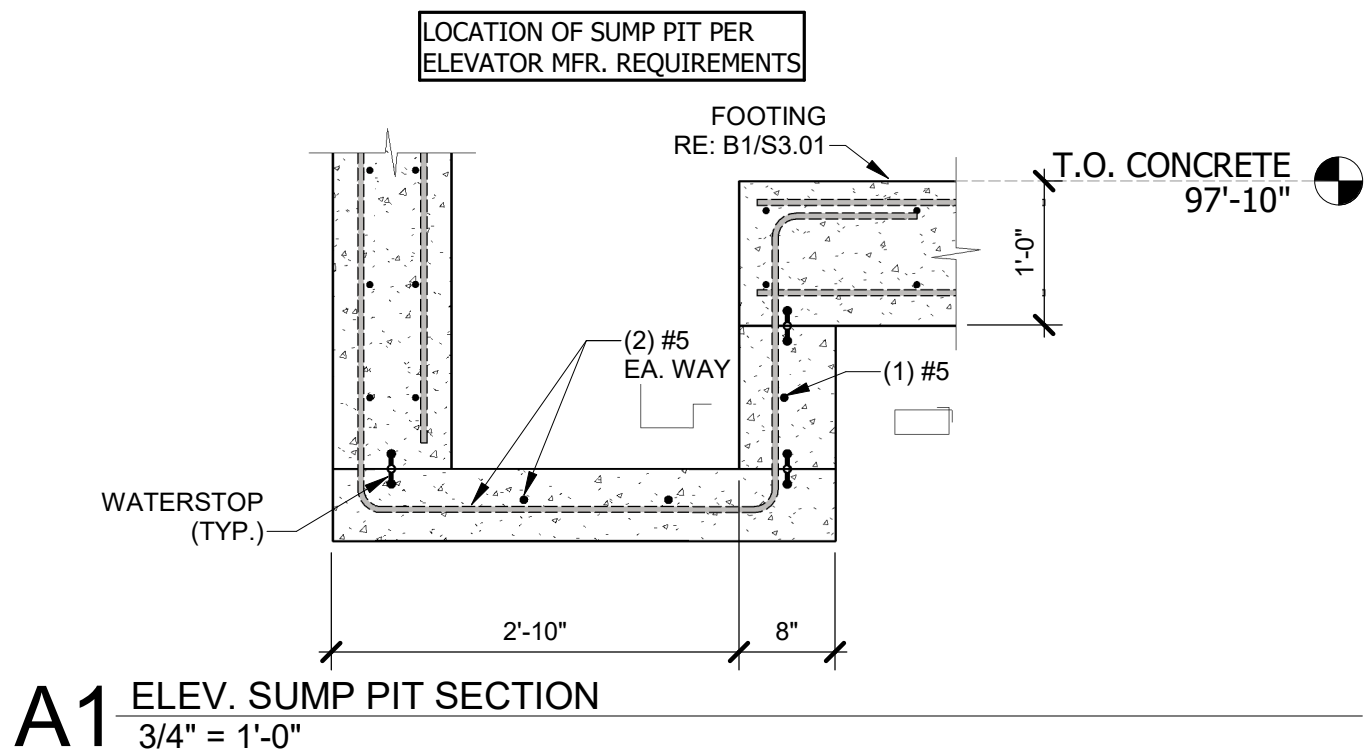
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CITY OF LEE'S SUMMIT

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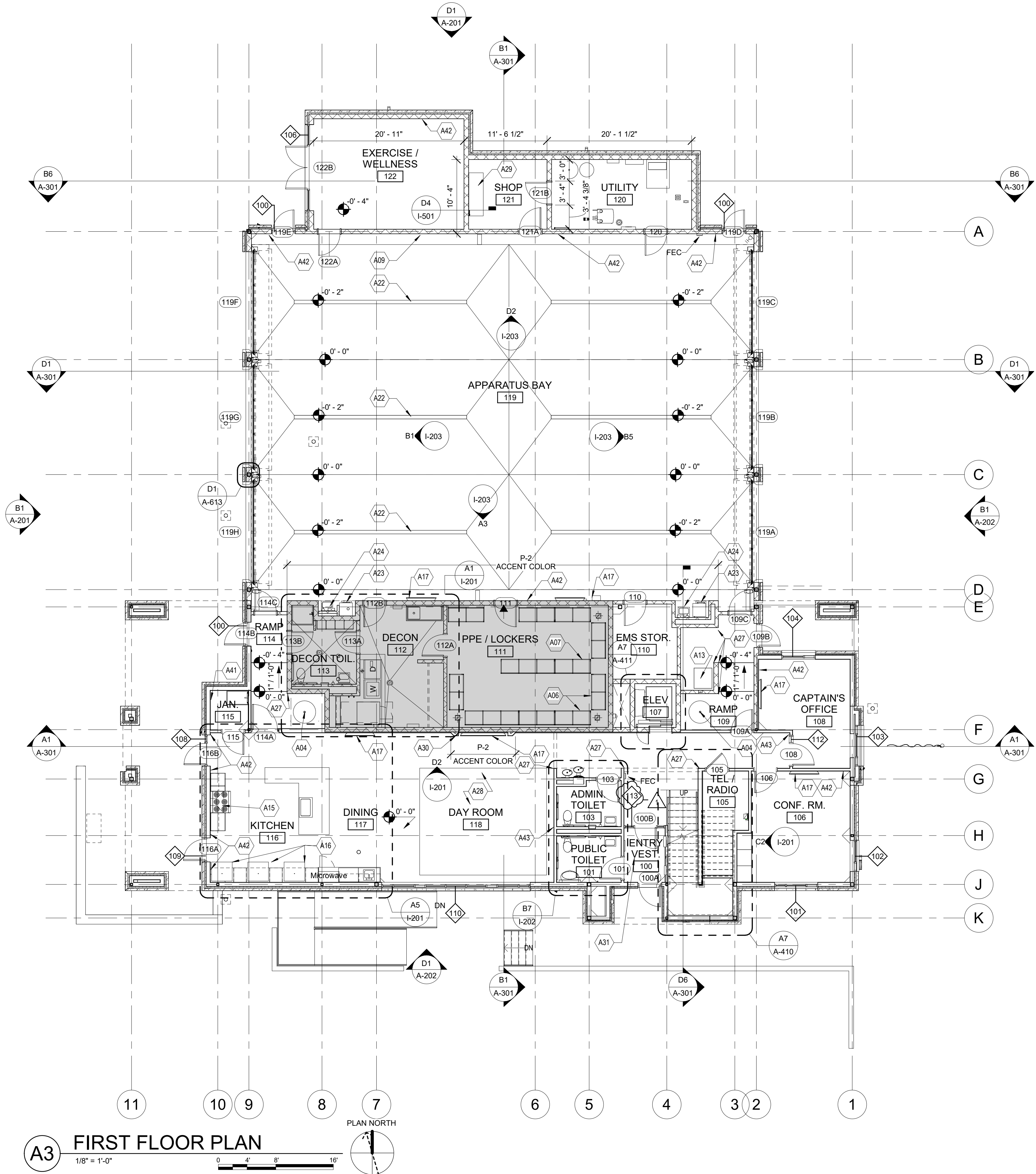
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ARCH NOTES

- THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- ALL DOORS ARE LOCATED 8 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O.).
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.

FLOOR PLAN KEYNOTES

| KEY | DESCRIPTION |
|-----|---|
| A01 | ROOFTOP ACCESS LADDER AND ACCESS HATCH |
| A04 | SLIDING POLE UNIT (1 HR RATED) |
| A06 | 30"-WIDE, WALL-HUNG "GEAR GRID" LOCKERS |
| A07 | 30"-WIDE, FREE-STANDING "GEAR GRID" LOCKERS |
| A09 | GEAR GRID WALL-MOUNT HOSE DRYER, OFOI |
| A11 | HEAVY-DUTY RESIDENTIAL WASHER, OFCI |
| A12 | HEAVY-DUTY RESIDENTIAL DRYER, OFCI |
| A13 | ICE MACHINE, CFCI |
| A15 | 6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION |
| A16 | RESIDENTIAL REFRIGERATOR, OFOI |
| A17 | WALL-MOUNTED TV, OFOI, BLOCKING AND TV BRACKET, CFCI |
| A22 | TRENCH DRAIN, SEE PLUMBING |
| A23 | BOOT WASH, SEE PLUMBING |
| A24 | HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING |
| A26 | CAR WASH SYSTEM INTEGRATED INTO THIS BAY, SEE PLUMBING |
| A27 | VINYL CORNER GUARD AT EXTERIOR CORNER - FULL WALL HEIGHT |
| A28 | CARPET TILE, RECESSED TO BE LEVEL W/ TOP OF POLISHED CONC FLOOR |
| A29 | WOOD WORK BENCH |
| A30 | GYP. BD. SURROUND TO CREATE TV NICHE |
| A31 | RECESSED SLAB AT ENTRY FOR RECESSED W.O.M. |
| A41 | MOP AND BROOM RACK |
| A42 | P-2 - ACCENT COLOR |
| A43 | P-3 - ACCENT COLOR |

FLOOR PLAN NOTES

■ EXTEND OF STORM SHELTER, SEE G-004 FOR MORE INFORMATION



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FIRST FLOOR PLAN

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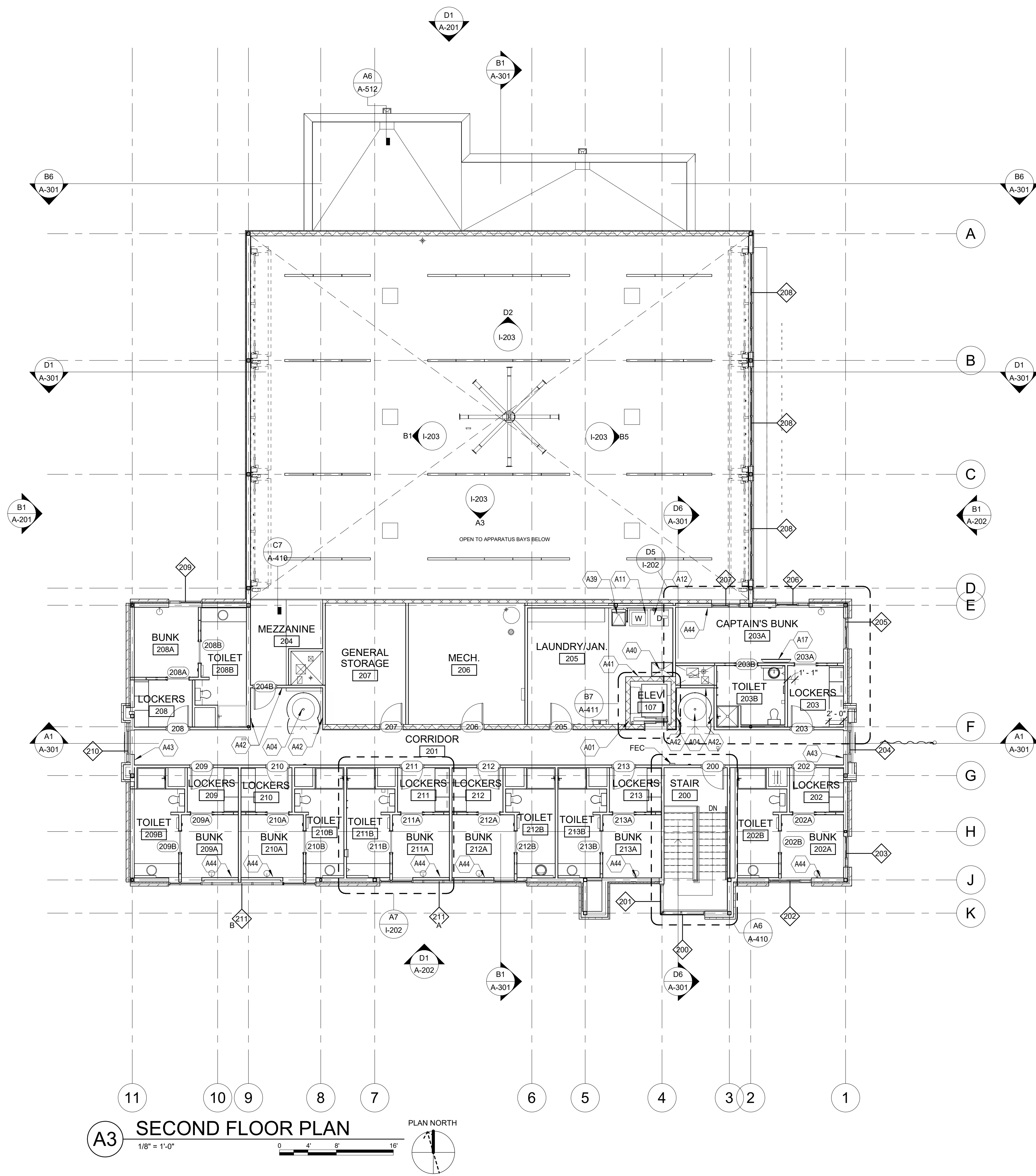
E

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B

A



ARCH NOTES

- THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- ALL DOORS ARE LOCATED 6 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O.).
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.

FLOOR PLAN KEYNOTES.

| KEY | DESCRIPTION |
|-----|--|
| A01 | ROOFTOP ACCESS LADDER AND ACCESS HATCH |
| A04 | SLIDING POLE UNIT (1 HR RATED) |
| A11 | HEAVY-DUTY RESIDENTIAL WASHER, OFCI |
| A12 | HEAVY-DUTY RESIDENTIAL DRYER, OFCI |
| A17 | WALL-MOUNTED TV, OFCI. BLOCKING AND TV BRACKET, CFCI |
| A39 | UTILITY SINK |
| A40 | MOP SINK |
| A41 | MOP AND BROOM RACK |
| A42 | P-2 - ACCENT COLOR |
| A43 | P-3 - ACCENT COLOR |
| A44 | P-4 - ACCENT COLOR |



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LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

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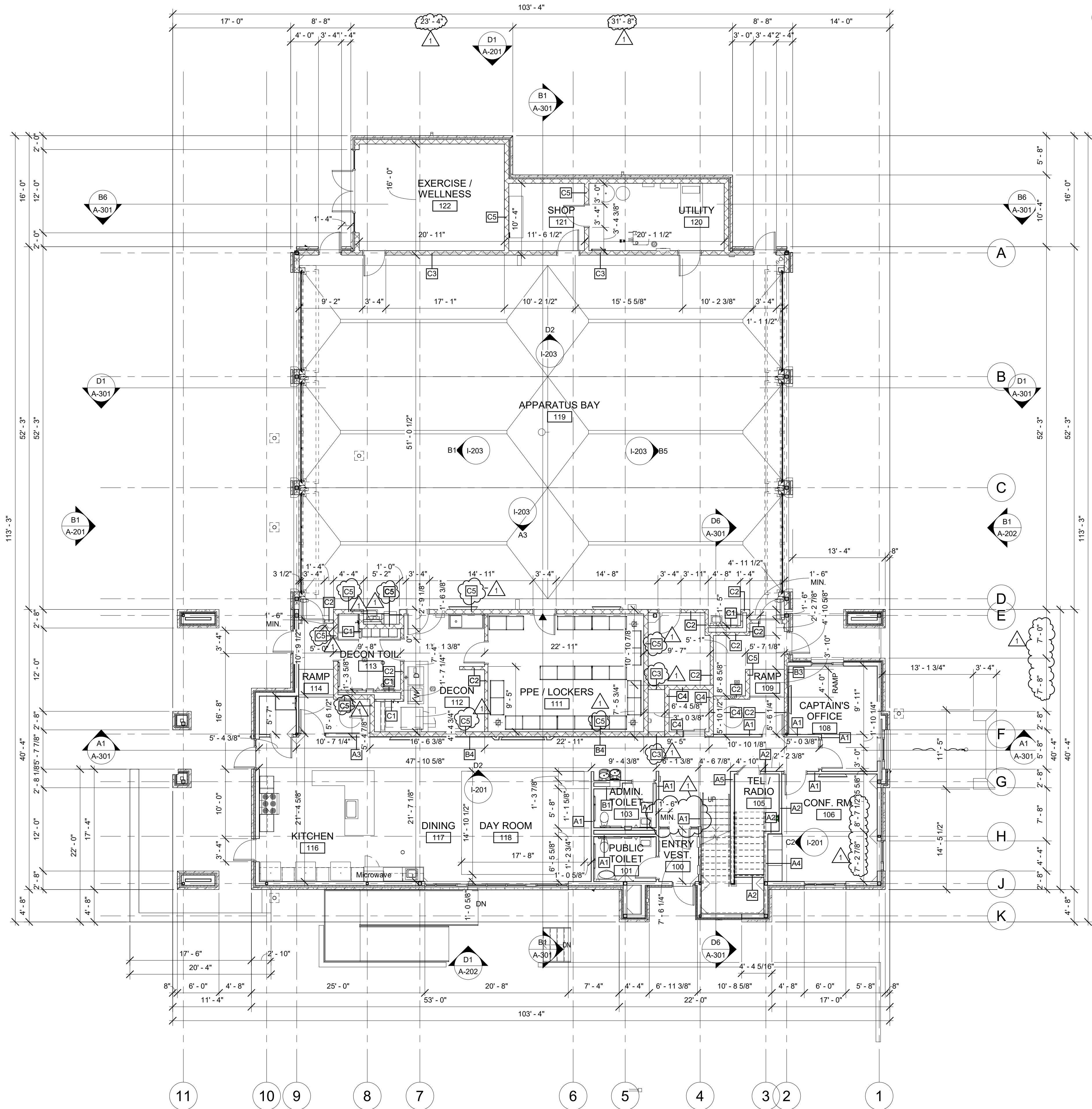
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SECOND FLOOR PLAN

A-102

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A3 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"

ARCH NOTES

- A. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- B. THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
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- G. ALL DOORS ARE LOCATED 6 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O.).
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- M. REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.



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FIRST FLOOR
DIMENSION PLAN

A-103

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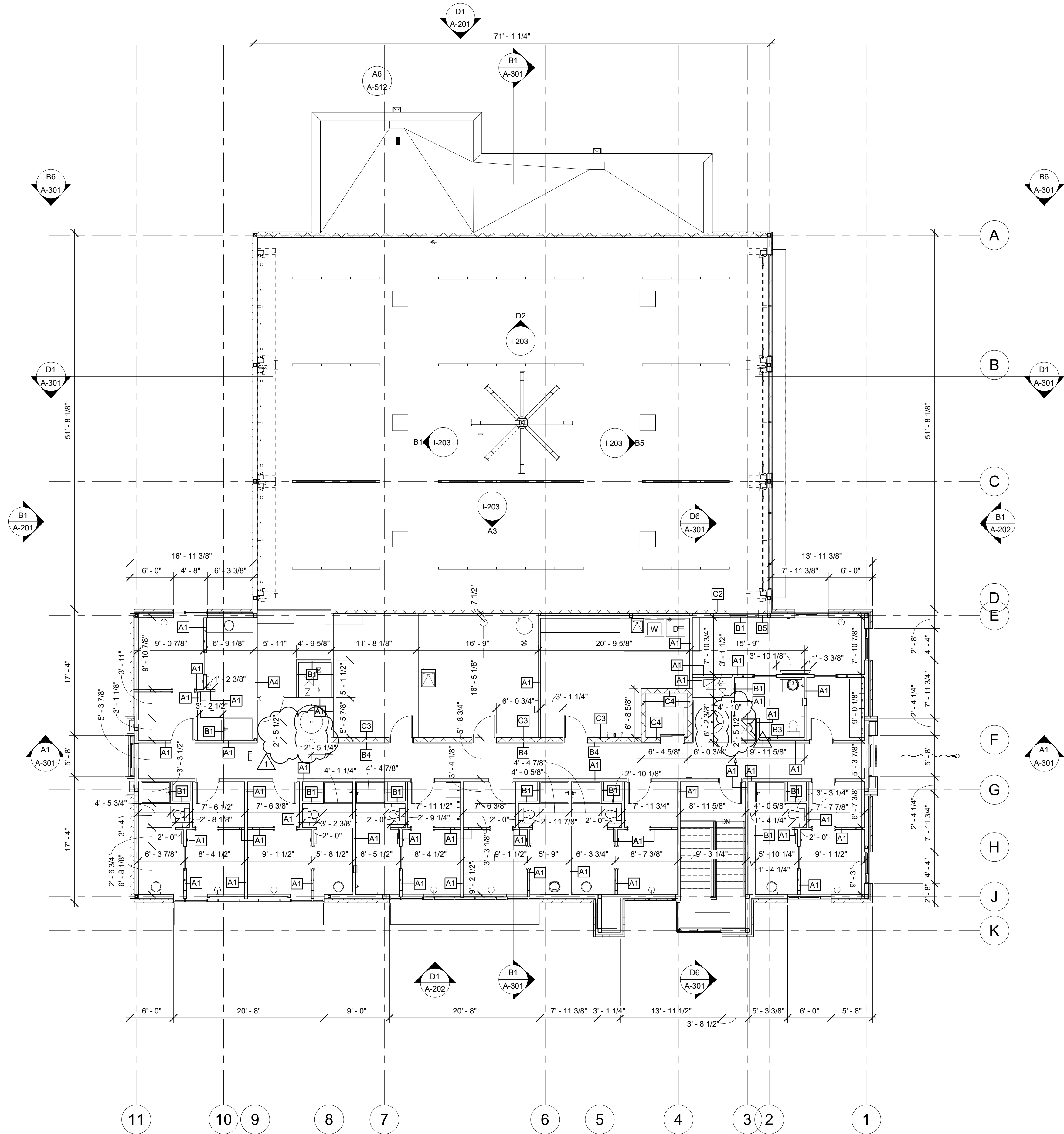
E

D

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A



A3 SECOND FLOOR DIMENSION PLAN
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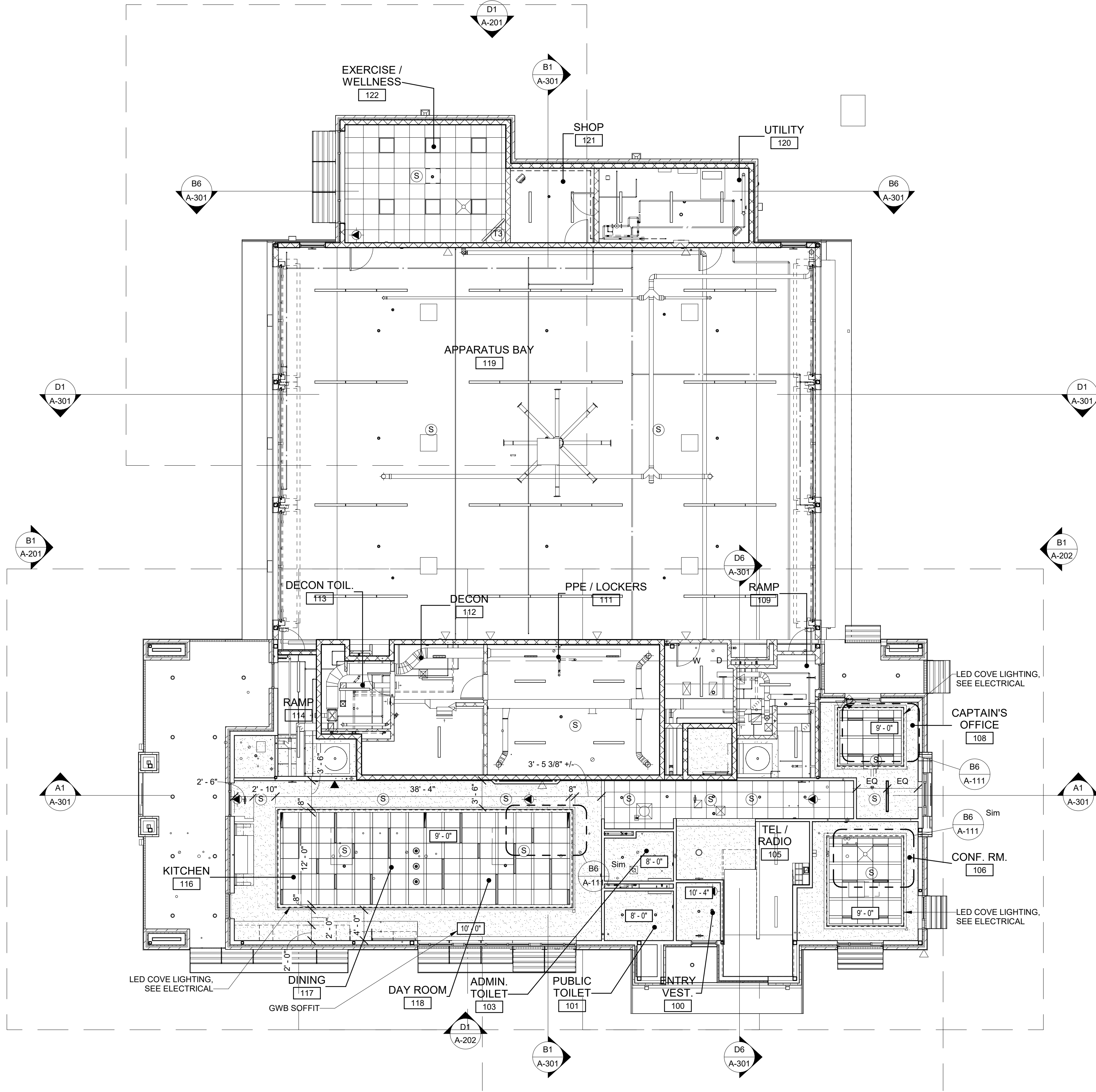
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SECOND FLOOR
DIMENSION PLAN

A-104

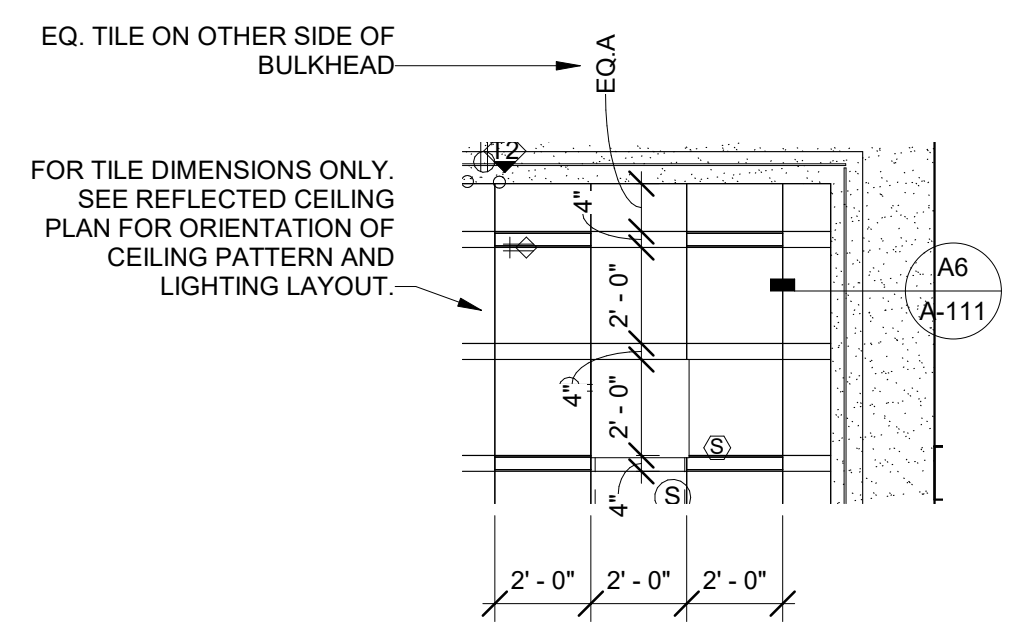
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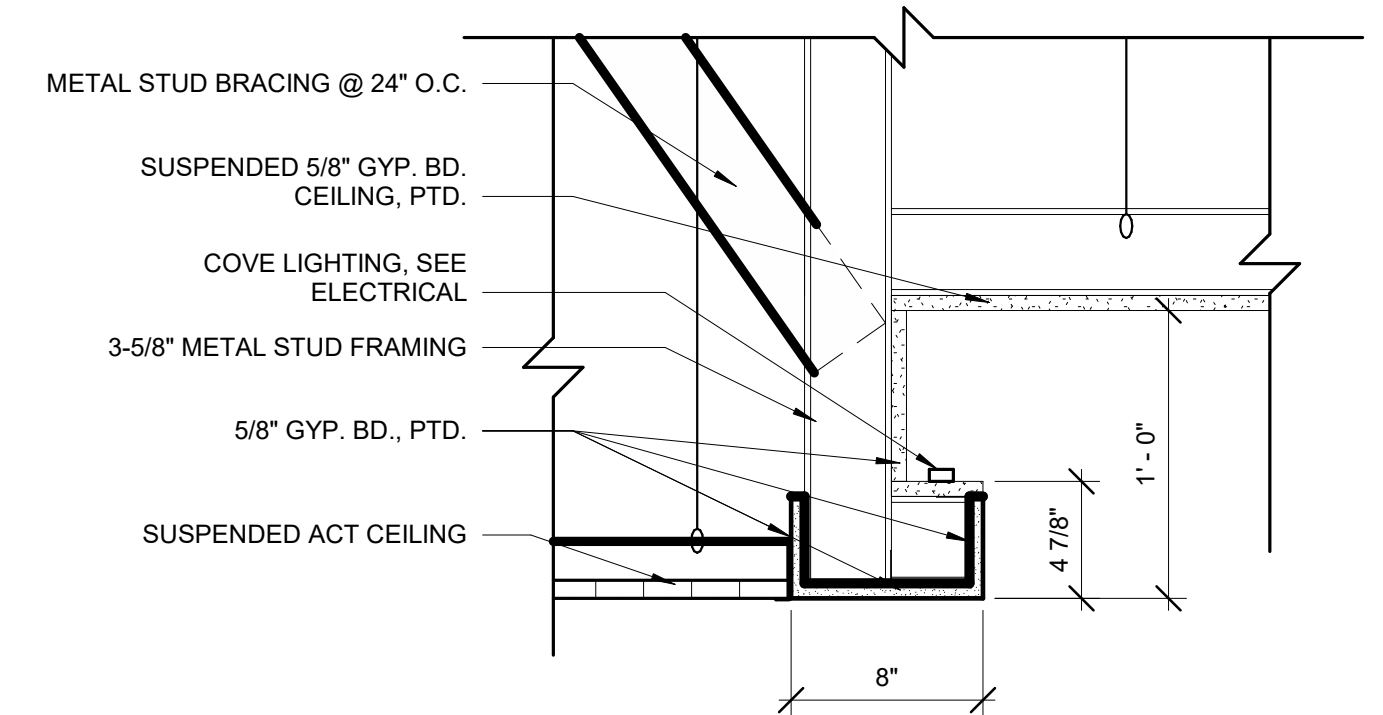
A1 LEVEL 1 CEILING PLAN

CEILING PLAN LEGEND

| | | | |
|--|--|--|--|
| | PLASTER, GYPSUM OR PORTLAND CEMENT | | LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4) |
| | TILE, ACOUSTICAL CEILING | | LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4) |
| | SHEET METAL | | LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8) |
| | CEILING ELEVATION TAG | | LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4) |
| | PENDANT HEAD SPRINKLERS | | LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT B (1x4) |
| | ACCESS DOOR (AD) OR ACCESS PANEL (AP) | | LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT C (1x8) |
| | RETURN AIR, CEILING | | EMERGENCY LIGHTING, ONE EMERGENCY BATTERY POWER |
| | SUPPLY AIR, CEILING | | EMERGENCY LIGHTING, THREE EMERGENCY BATTERY POWER |
| | LIGHT FIXTURE, FLUORESCENT EMERGENCY | | HEAT DETECTOR |
| | EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROW | | SMOKE DETECTOR |
| | LIGHT FIXTURE, INCANDESCENT, CEILING MOUNTED | | |
| | LIGHT FIXTURE, 4' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5' POP | | |
| | LIGHT FIXTURE, 2' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5' POP | | |



B6 BULKHEAD CEILING DETAIL



A6 BULKHEAD AND COVE DETAIL

SHEET NOTES

- SEE ROOM FINISH SCHEDULE SHEET I-601 FOR CEILING TYPES AND MATERIALS IN EACH ROOM/AREA.
- PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN ACCORDANCE WITH IBC AND CISCA GUIDELINES.
- ALL DIMENSIONS ARE FROM FACE OF FINISH MATERIAL.
- CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
- CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHTS ABOVE CASEWORK, U.N.O.
- SEE ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING, AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH CEILING LAYOUT SHOWN ON THIS SHEET.
- LIGHT FIXTURES, HVAC DIFFUSERS, AND SPECIAL SYSTEMS ARE SHOWN FOR POSITIONING WITHIN FINISH CEILING LAYOUT. COORDINATE WITH ELECTRICAL, MECHANICAL, AND SPECIAL SYSTEMS DRAWINGS FOR FIXTURE TYPES, LOCATIONS, SIZES, AND SCHEDULES.
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- CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM, AND MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED, U.N.O..
- INSTALL ACCESS PANELS IN GYP BD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
- LIGHT FIXTURES LOCATED AT STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
- LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.

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PAUL J. MICHELL
NUMBER A-2009021701
11/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
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FIRST FLOOR
REFLECTED
CEILING PLAN

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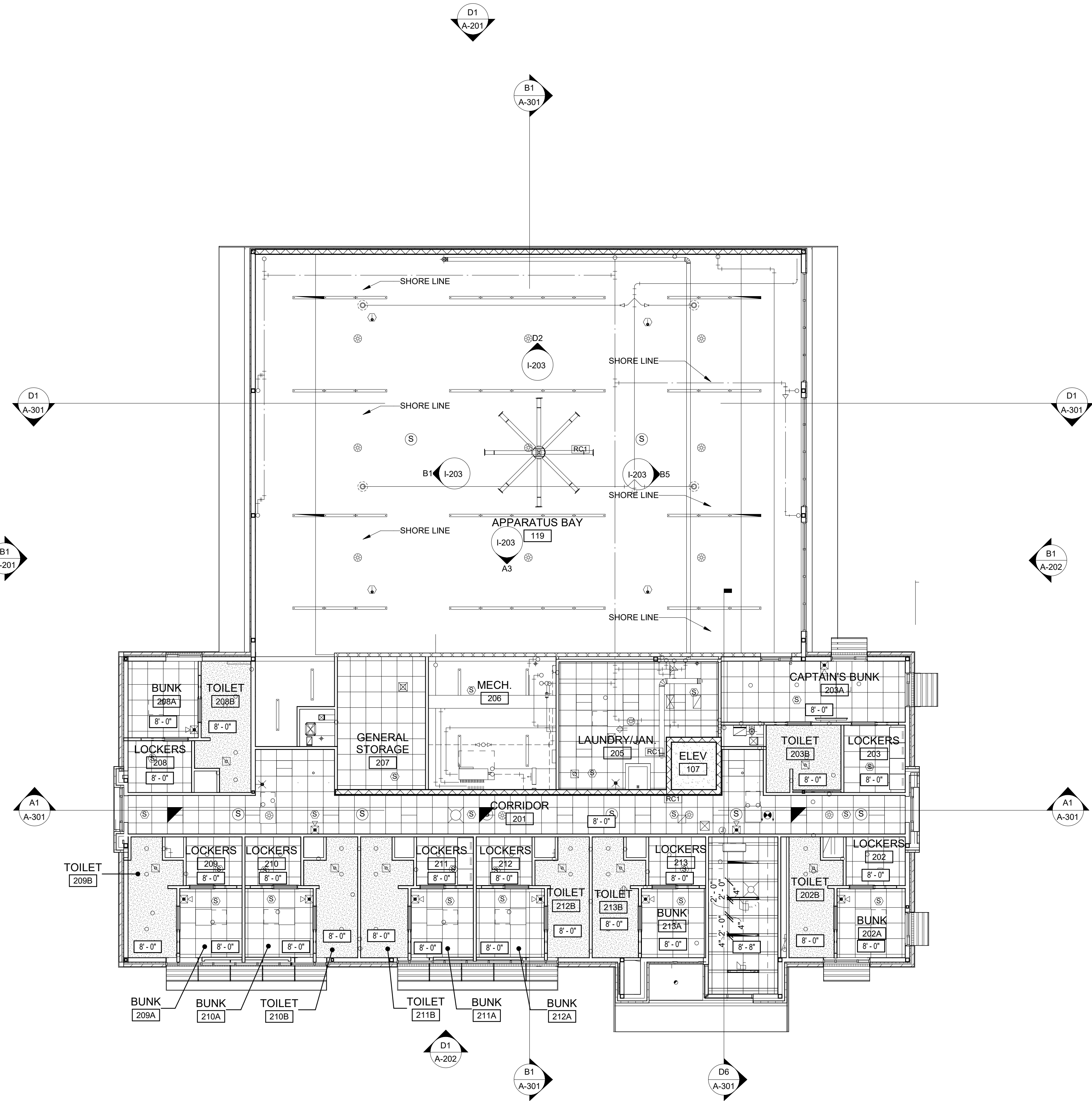
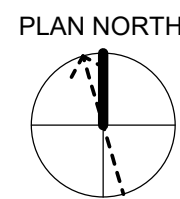
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A1 LEVEL 2 CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'



CEILING PLAN LEGEND

| | | | |
|--|--|--|--|
| | PLASTER, GYPSUM OR PORTLAND CEMENT | | LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4) |
| | TILE, ACOUSTICAL CEILING | | LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4) |
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| | CEILING ELEVATION TAG | | LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4) |
| | PENDANT HEAD SPRINKLERS | | LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT B (1x4) |
| | ACCESS DOOR (AD) OR ACCESS PANEL (AP) | | LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT C (1x8) |
| | RETURN AIR, CEILING | | EMERGENCY LIGHTING, ONE EMERGENCY BATTERY POWER |
| | SUPPLY AIR, CEILING | | EMERGENCY LIGHTING, THREE EMERGENCY BATTERY POWER |
| | LIGHT FIXTURE, FLUORESCENT EMERGENCY | | HEAT DETECTOR |
| | EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROW | | SMOKE DETECTOR |
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| | LIGHT FIXTURE, 4' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP | | |
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MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

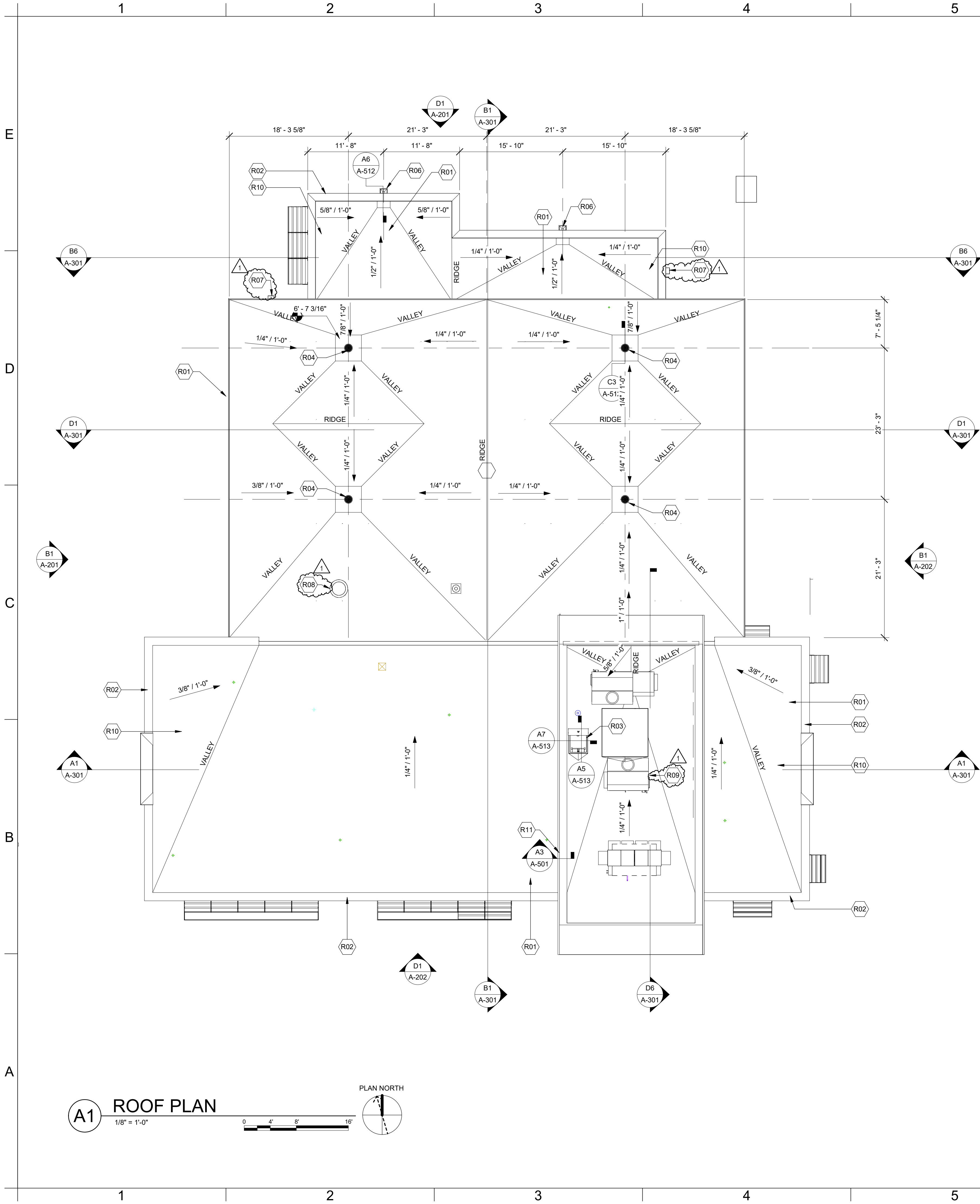
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SECOND FLOOR
REFLECTED
CEILING PLAN

A-112

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| ROOF PLAN KEYNOTES | |
|--------------------|---|
| KEY | DESCRIPTION |
| R01 | FULLY ADHERED TPO ROOFING ON 1/2" RECOVERY BD. |
| R02 | PRE-FINISHED SHEET METAL PARAPET CAP |
| R03 | PRE-FABRICATED ROOF HATCH |
| R04 | INTERNAL ROOF DRAIN (RE: PLMG.) |
| R05 | PRE-FINISHED SHEET METAL DOWNSPOUT & CONDUCTOR HEAD |
| R07 | EXTERIOR WALL-MOUNTED LIGHT FIXTURE (RE: ELECT.) |
| R08 | ROOF-MOUNTED EXHAUST FAN (RE: MECH. & ELECT.) |
| R09 | ROOF-MOUNTED MECHANICAL EQUIP. (RE: MECH. & ELECT.) |
| R10 | TAPERED RIGID INSUL. ROOF CRICKET |
| R11 | 24"x30" METAL ACCESS DOOR |



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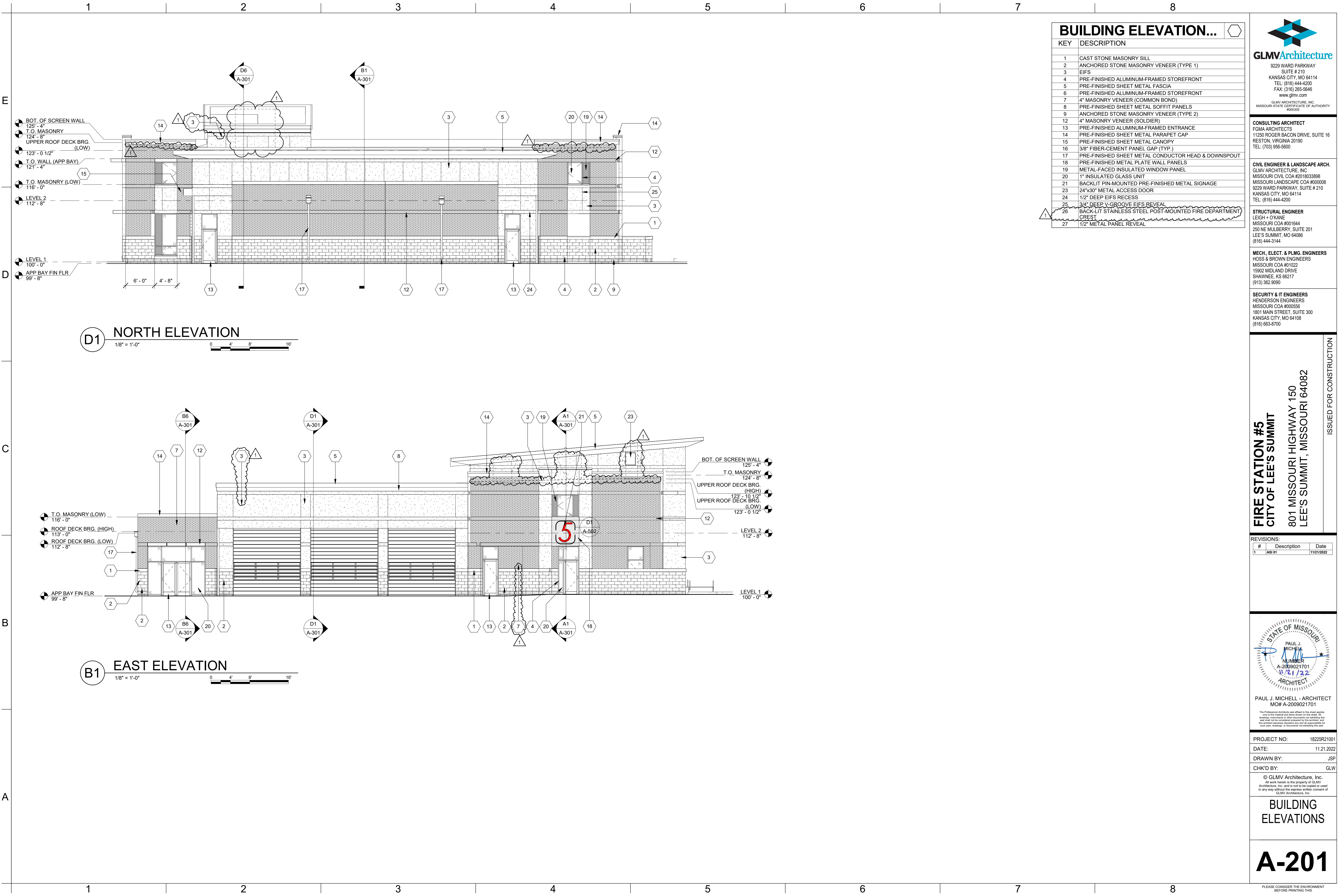
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ROOF PLAN

A-121

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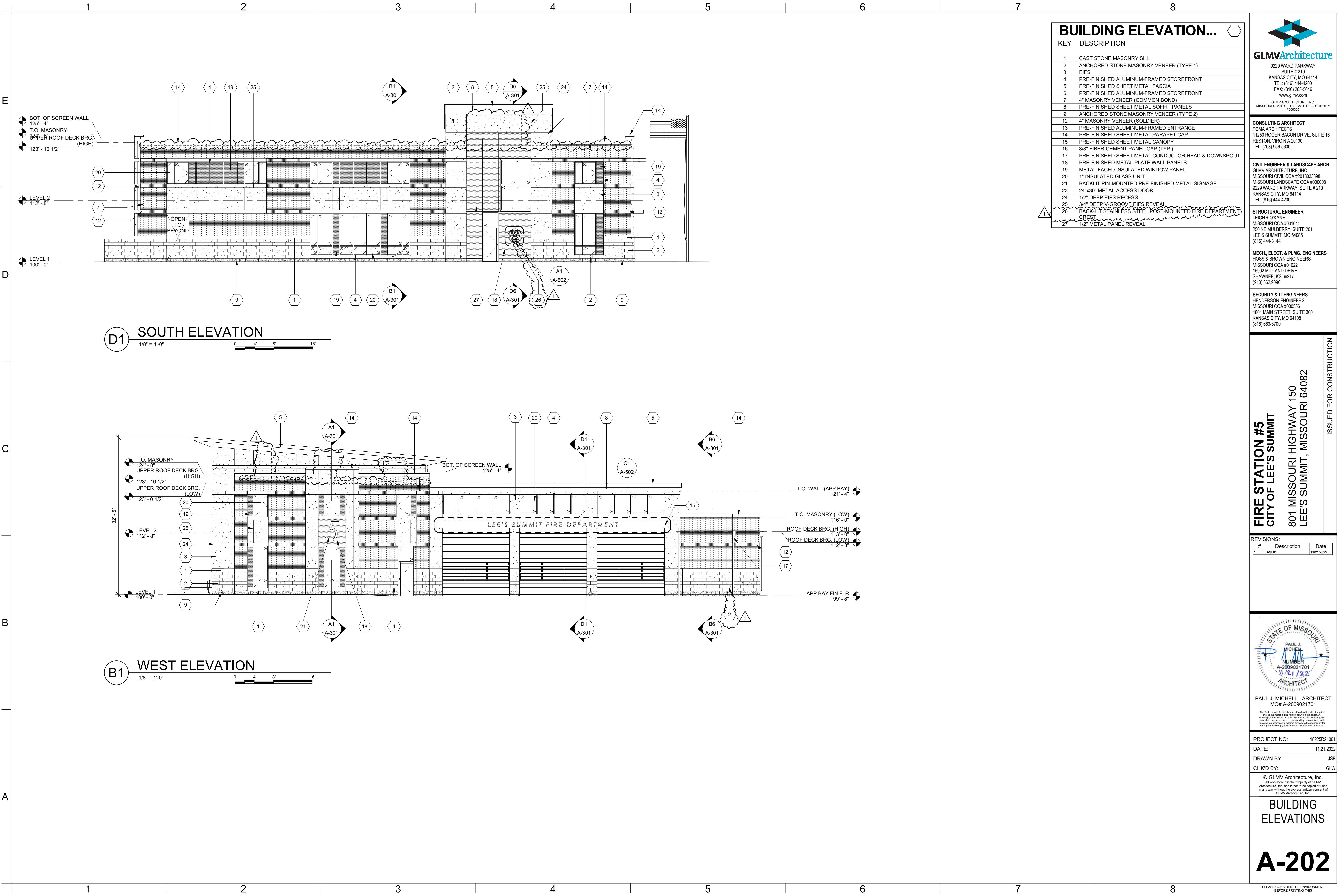
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BUILDING ELEVATIONS

A-201

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| BUILDING ELEVATION... | |
|-----------------------|---|
| KEY | DESCRIPTION |
| 1 | CAST STONE MASONRY SILL |
| 2 | ANCHORED STONE MASONRY VENEER (TYPE 1) |
| 3 | EIFS |
| 4 | PRE-FINISHED ALUMINUM-FRAMED STOREFRONT |
| 5 | PRE-FINISHED SHEET METAL FASCIA |
| 6 | PRE-FINISHED ALUMINUM-FRAMED STOREFRONT |
| 7 | 4" MASONRY VENEER (COMMON BOND) |
| 8 | PRE-FINISHED SHEET METAL SOFFIT PANELS |
| 9 | ANCHORED STONE MASONRY VENEER (TYPE 2) |
| 12 | 4" MASONRY VENEER (SOLDIER) |
| 13 | PRE-FINISHED ALUMINUM-FRAMED ENTRANCE |
| 14 | PRE-FINISHED SHEET METAL PARAPET CAP |
| 15 | PRE-FINISHED SHEET METAL CANOPY |
| 16 | 3/8" FIBER-CEMENT PANEL GAP (TYP.) |
| 17 | PRE-FINISHED SHEET METAL CONDUCTOR HEAD & DOWNSPOUT |
| 18 | PRE-FINISHED METAL PLATE WALL PANELS |
| 19 | METAL-FACED INSULATED WINDOW PANEL |
| 20 | 1" INSULATED GLASS UNIT |
| 21 | BACKLIT PIN-MOUNTED PRE-FINISHED METAL SIGNAGE |
| 23 | 24"x30" METAL ACCESS DOOR |
| 24 | 1/2" DEEP EIFS RECESS |
| 25 | 3/4" DEEP V-GROOVE EIFS REVEAL |
| 26 | BACK-LIT STAINLESS STEEL POST-MOUNTED FIRE DEPARTMENT CREST |
| 27 | 1/2" METAL PANEL REVEAL |



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PAUL J. MICHELL
NUMBER
A-2009021701
11/21/22
ARCHITECT

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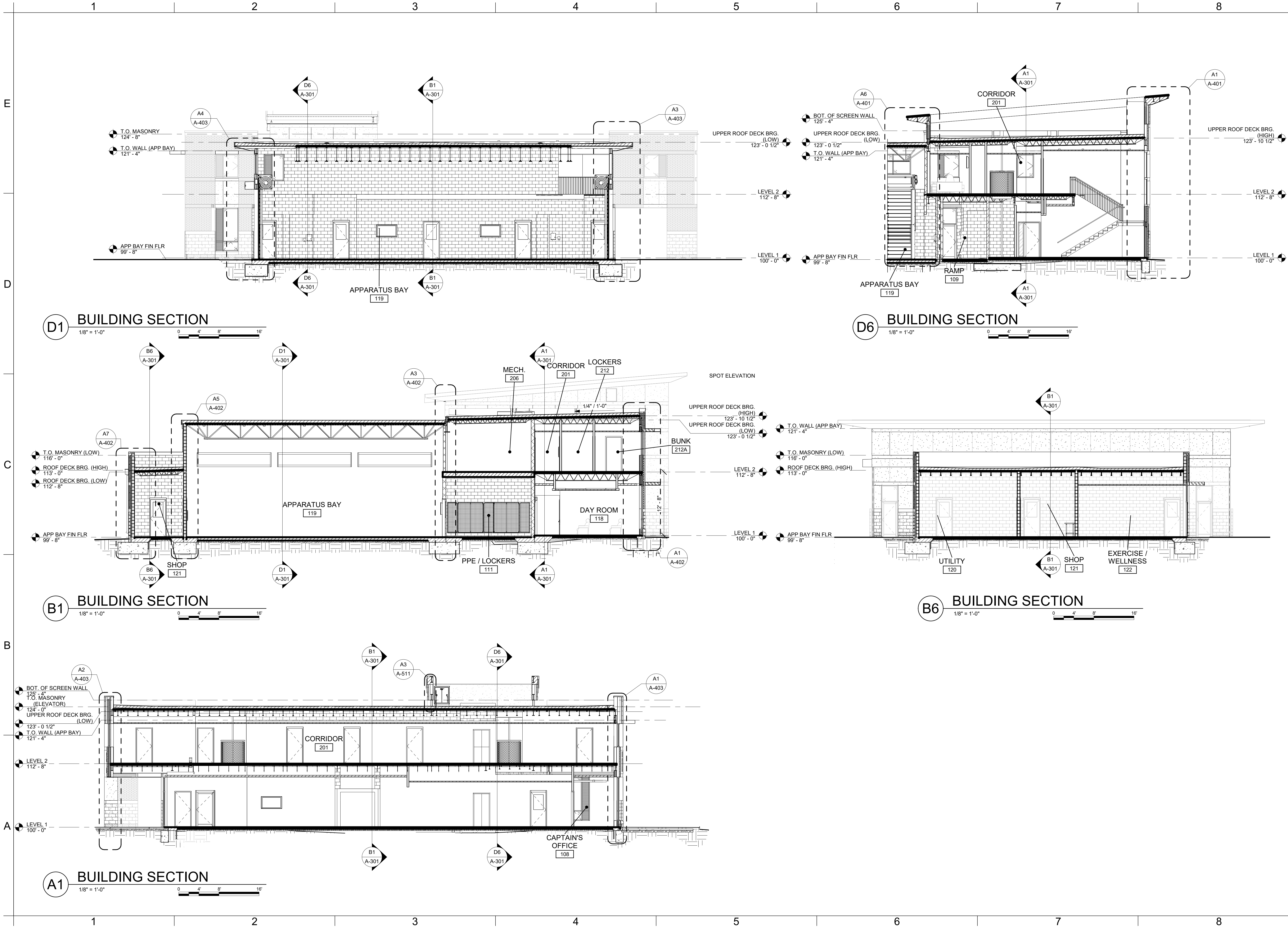
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BUILDING ELEVATIONS

A-202

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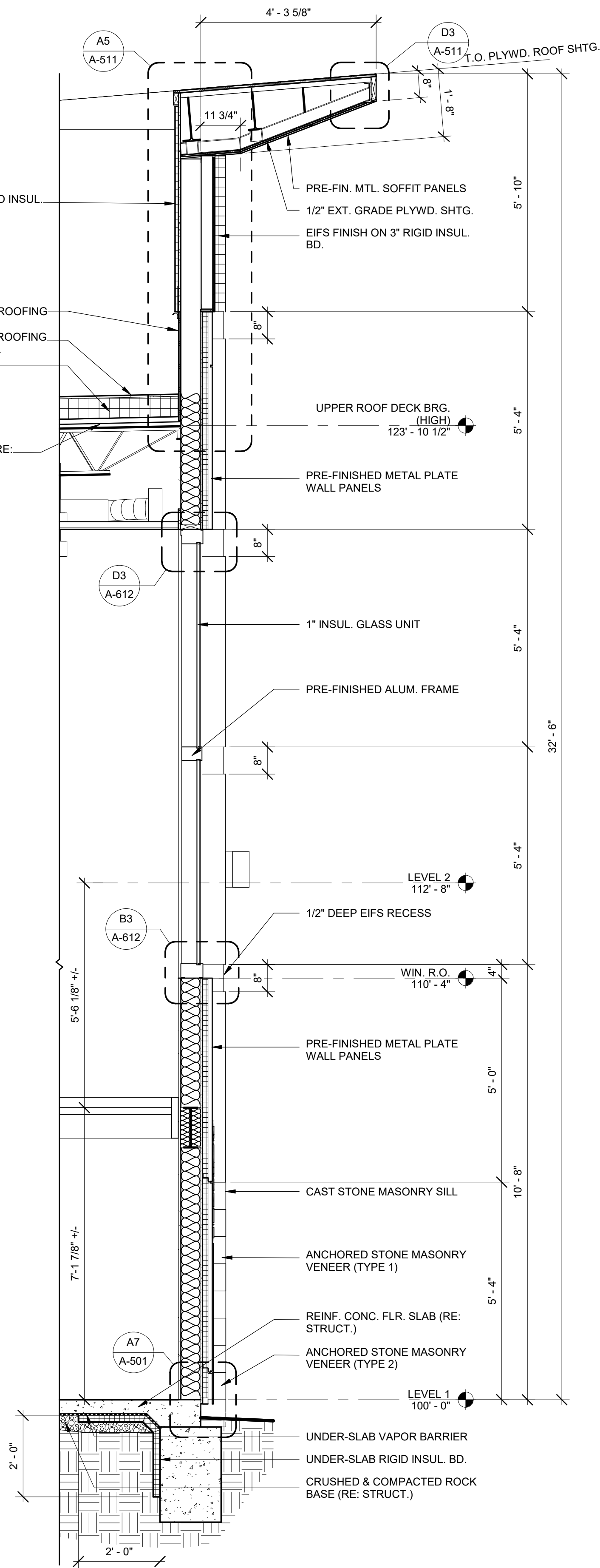
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BUILDING SECTIONS

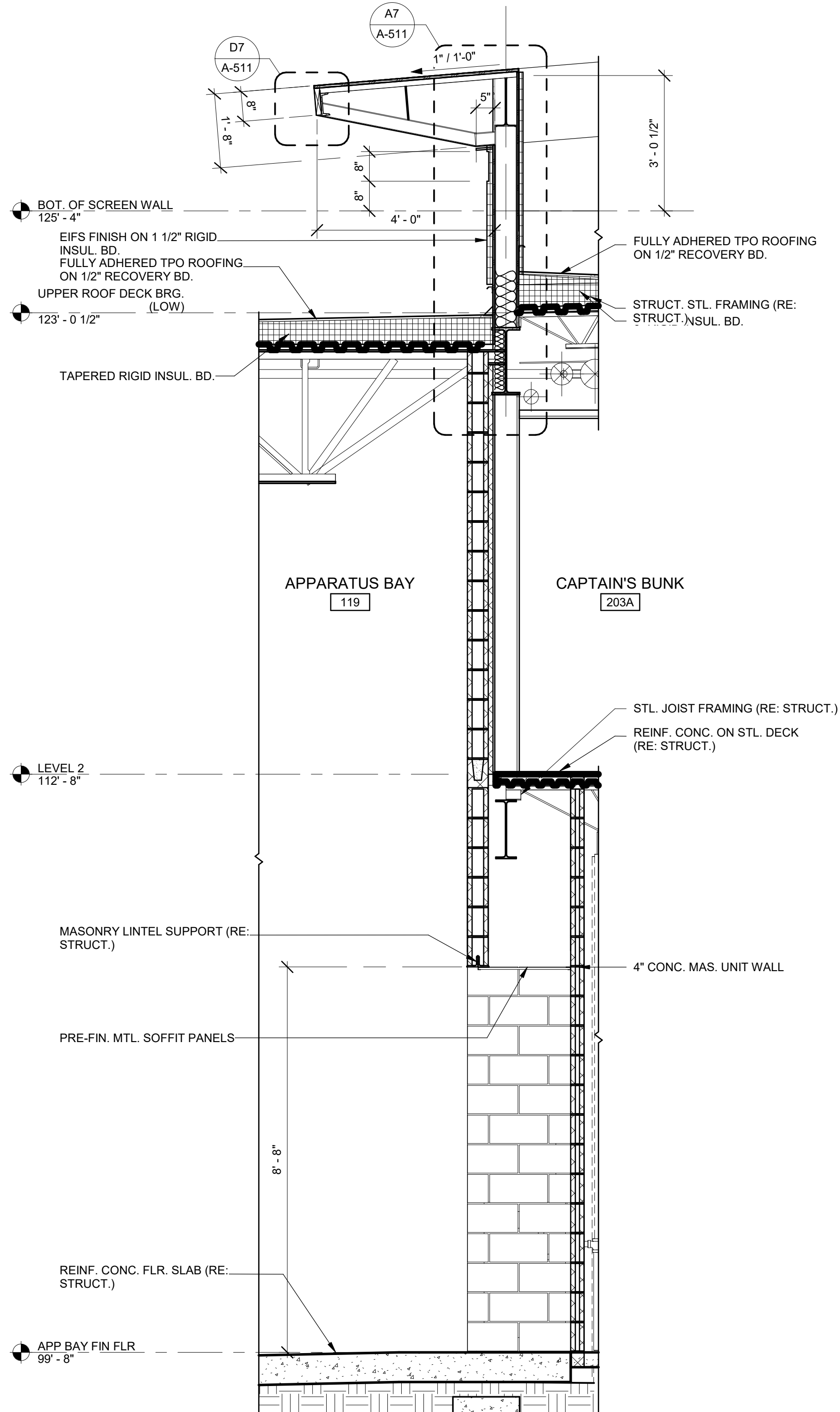
A-301

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A1 STAIR SECTION
1/2" = 1'-0"



A6 WALL SECTION
1/2" = 1'-0"



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WALL SECTIONS

A-401

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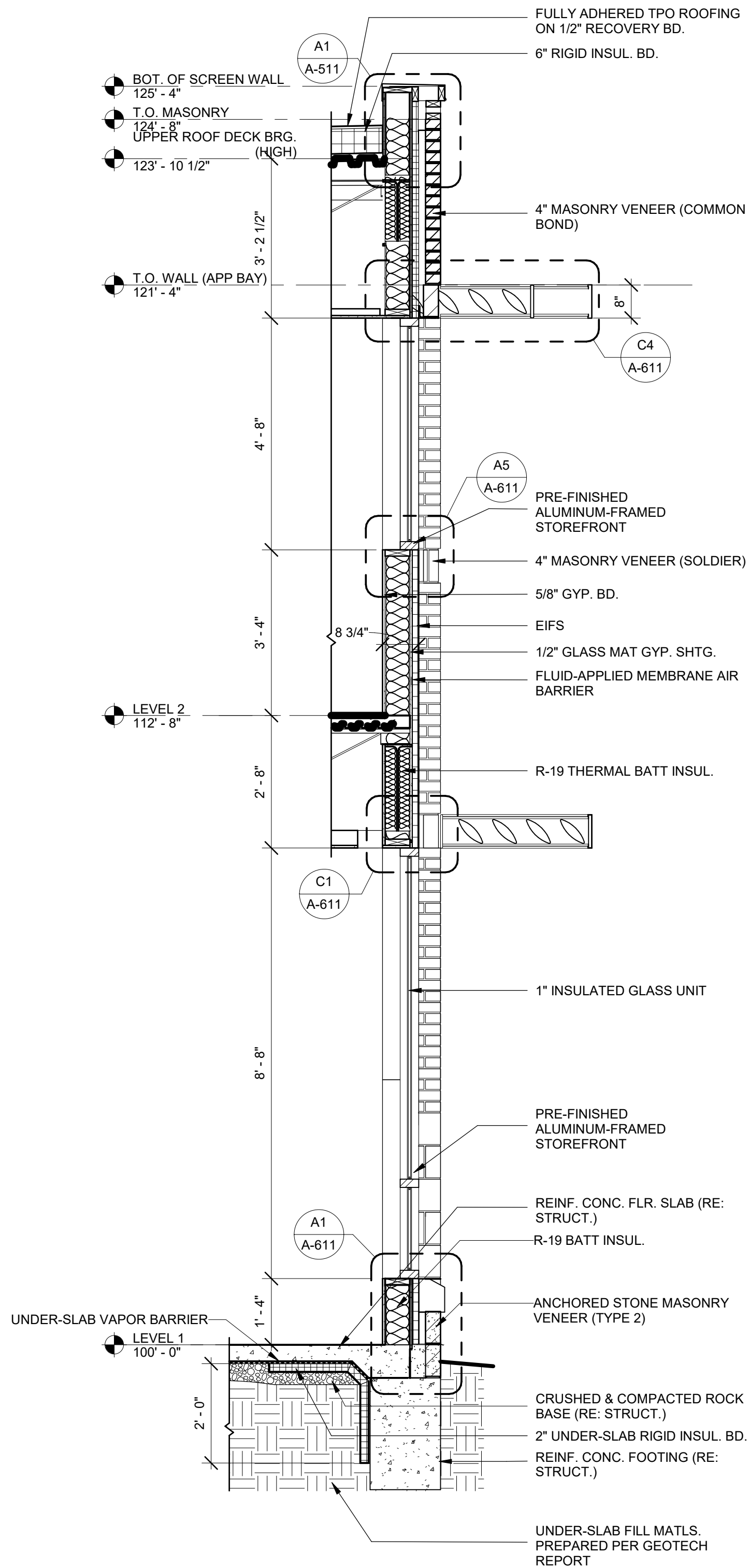
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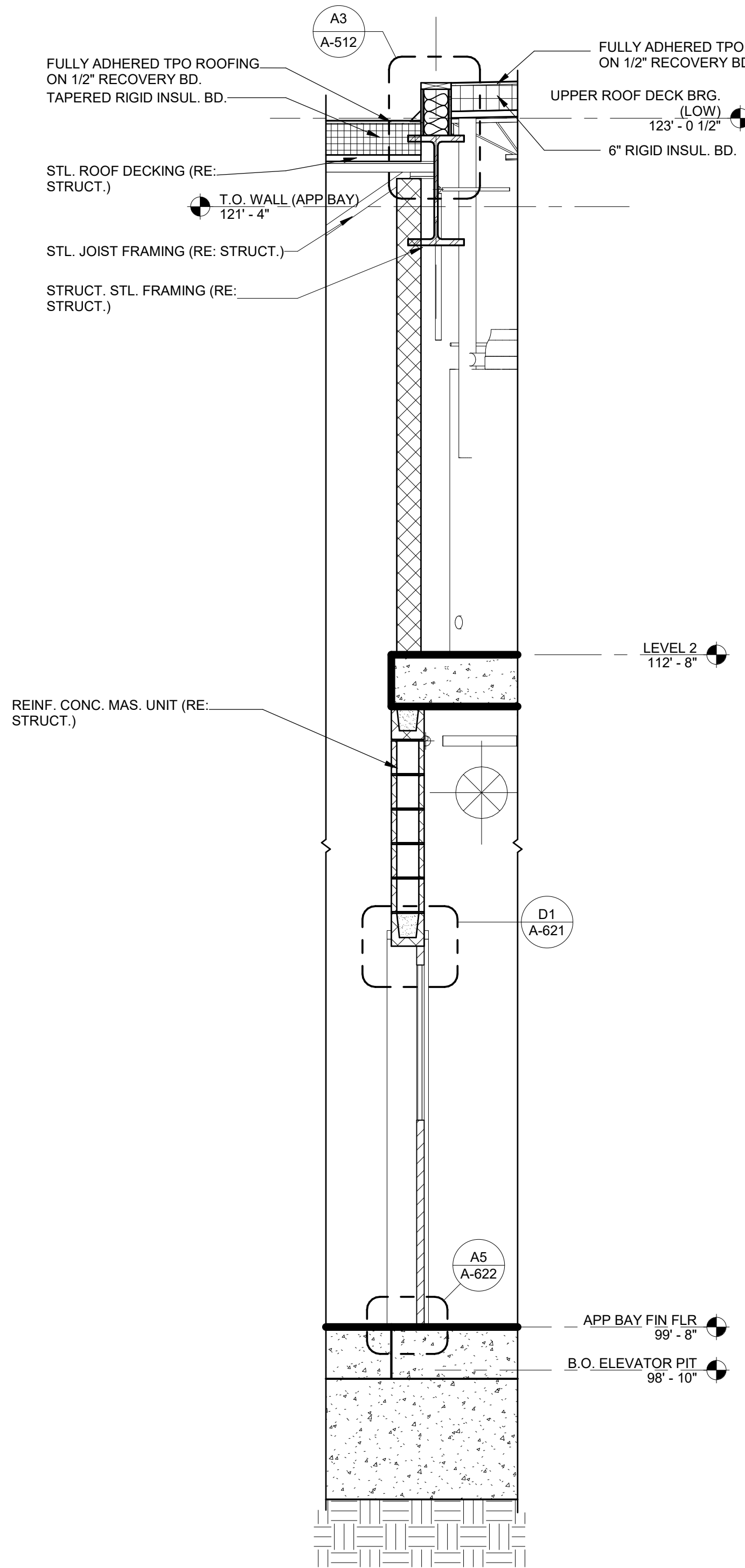
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B

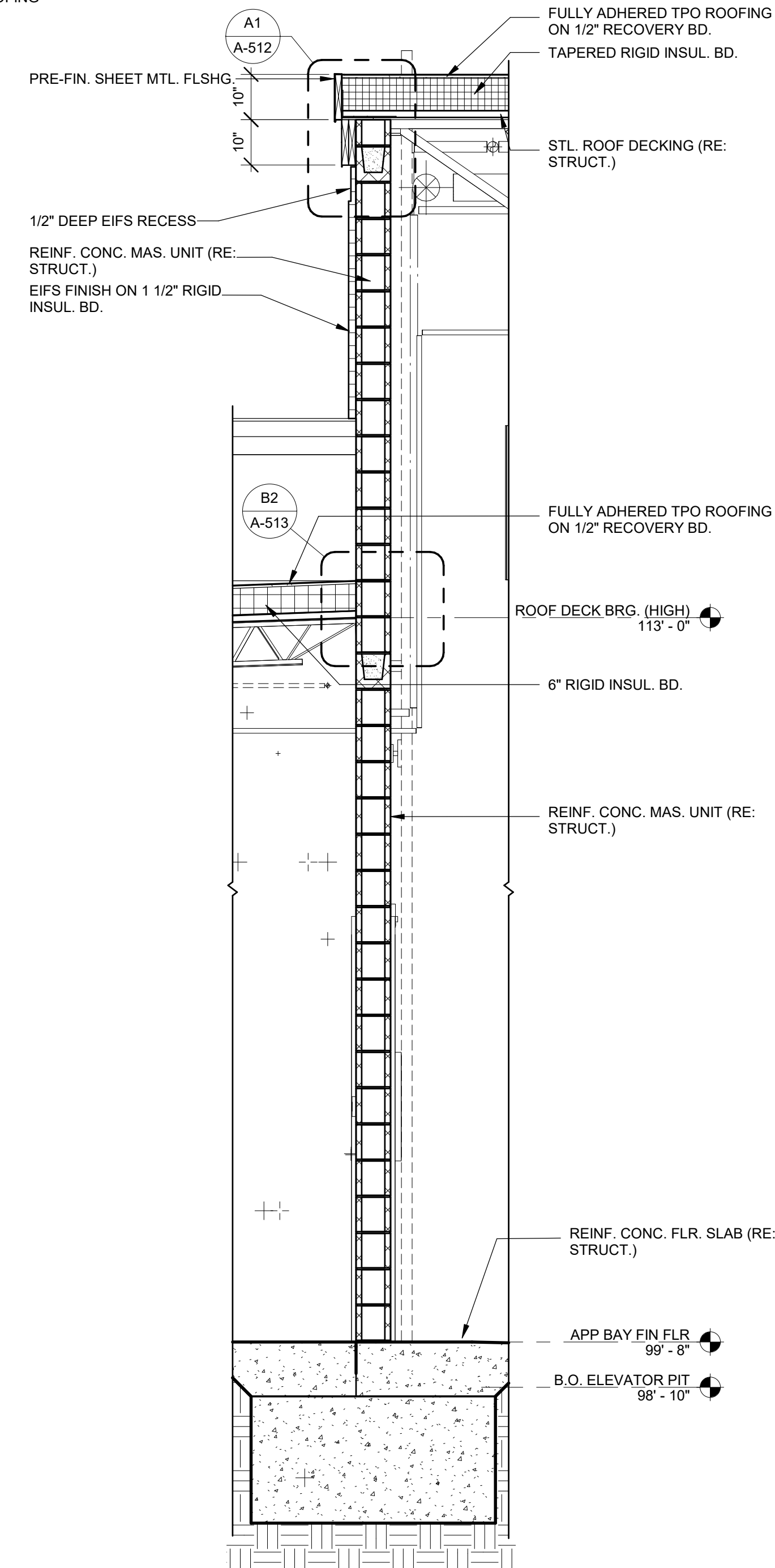
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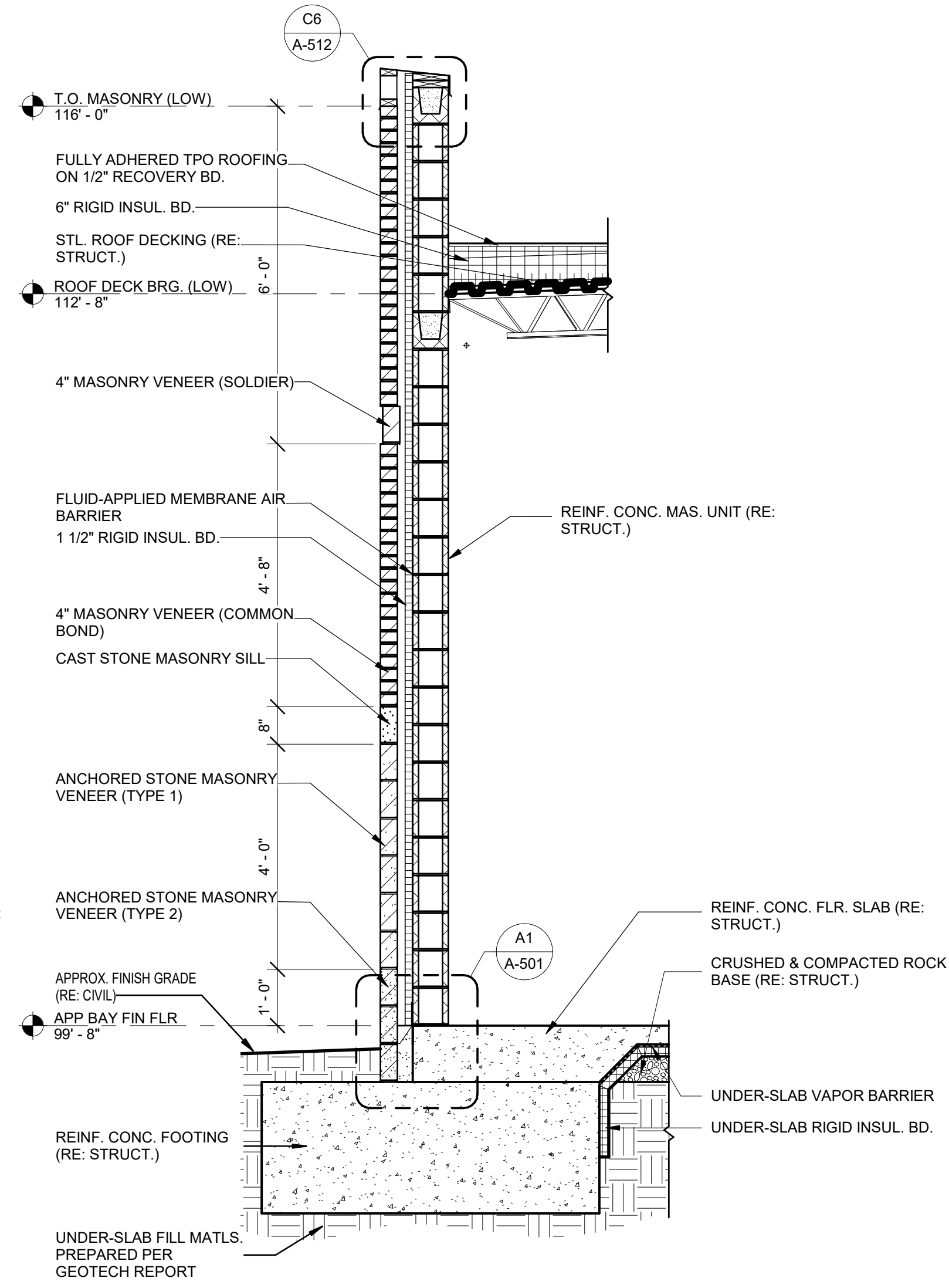
A1 WALL SECTION
1/2" = 1'-0"



A3 WALL SECTION
1/2" = 1'-0"



A5 WALL SECTION
1/2" = 1'-0"



A7 WALL SECTION
1/2" = 1'-0"



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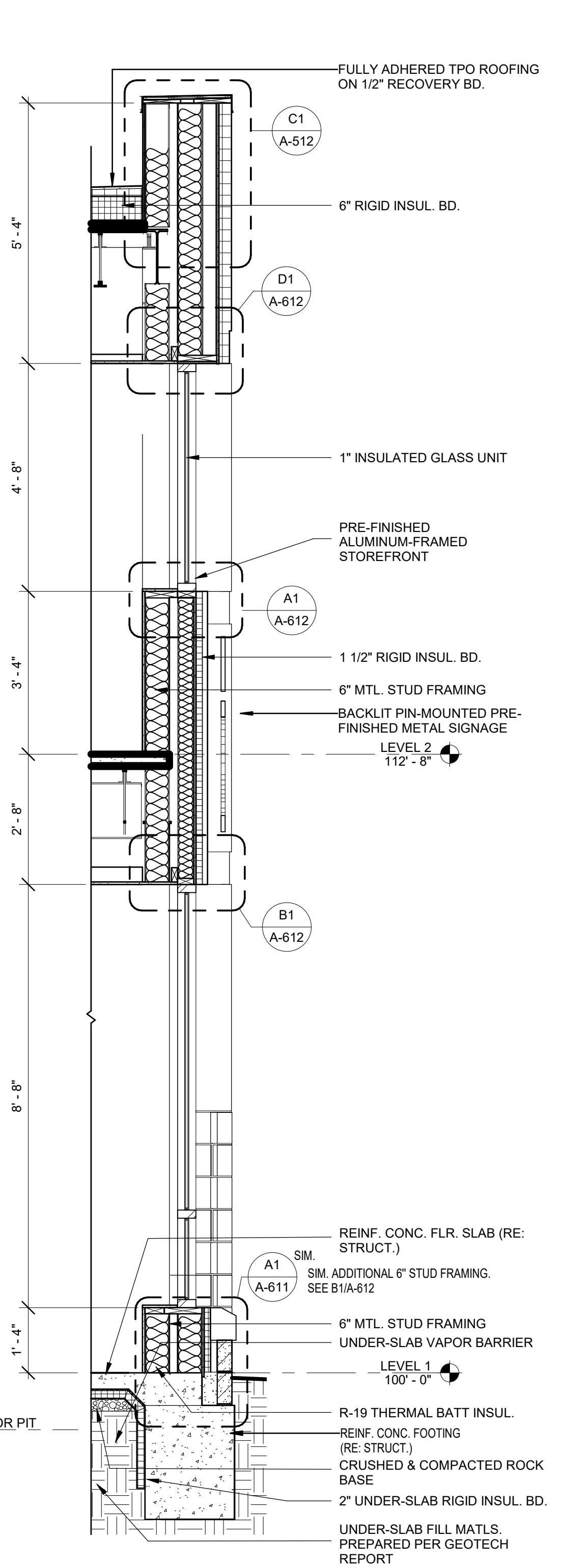
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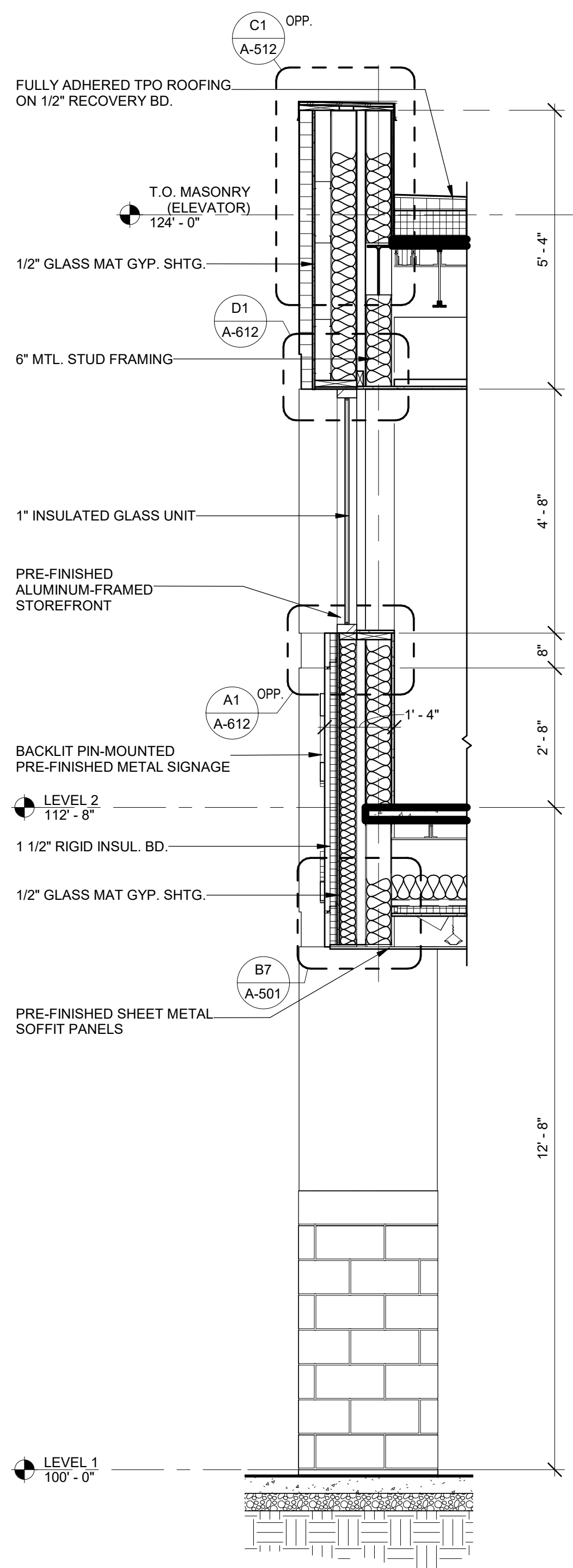
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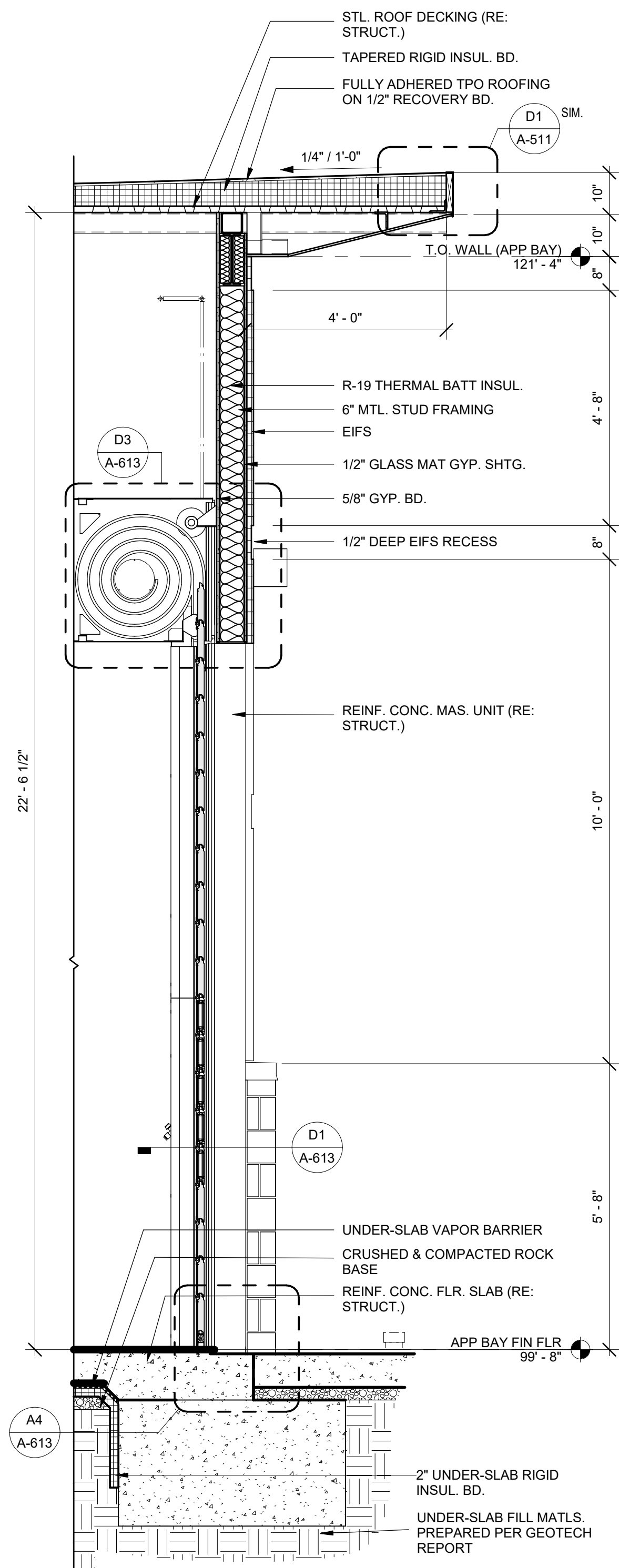
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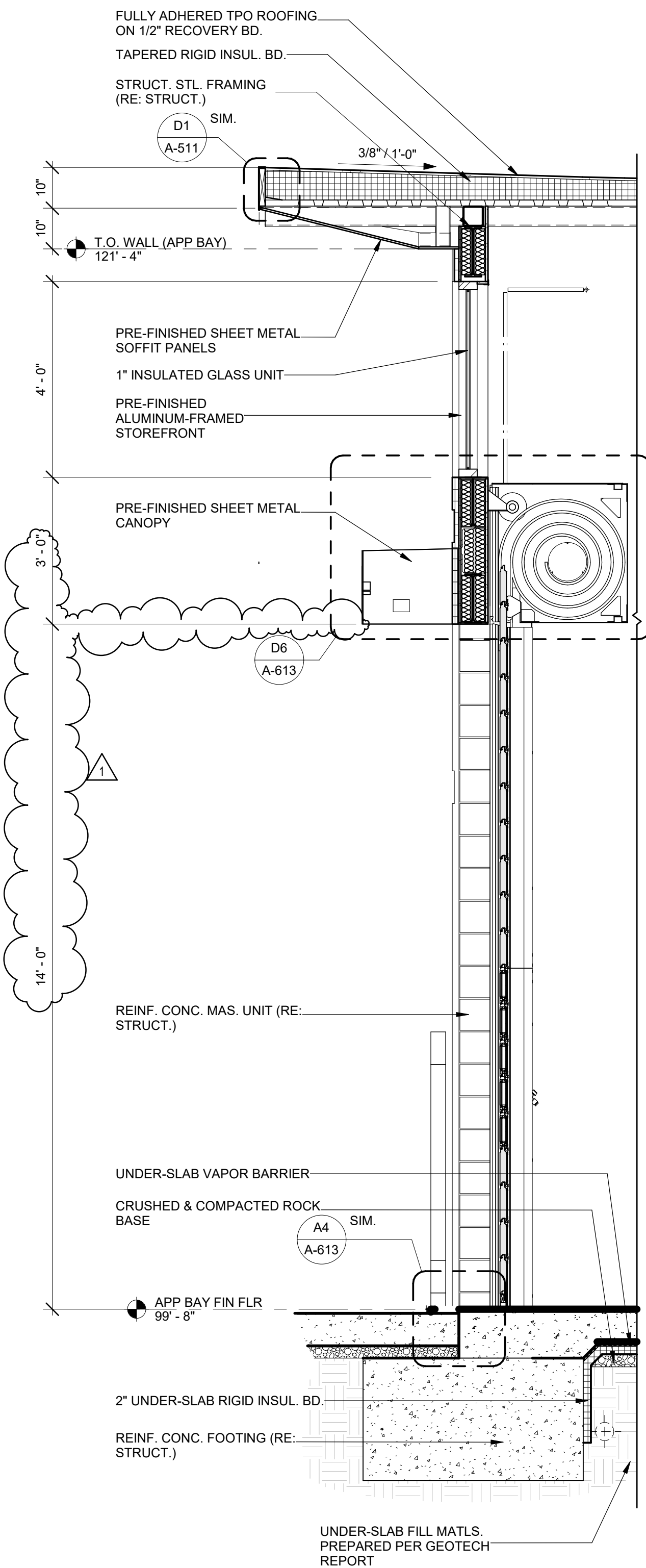
A1 WALL SECTION
1/2" = 1'-0"



A2 WALL SECTION
1/2" = 1'-0"



A3 WALL SECTION
1/2" = 1'-0"



A4 WALL SECTION
1/2" = 1'-0"



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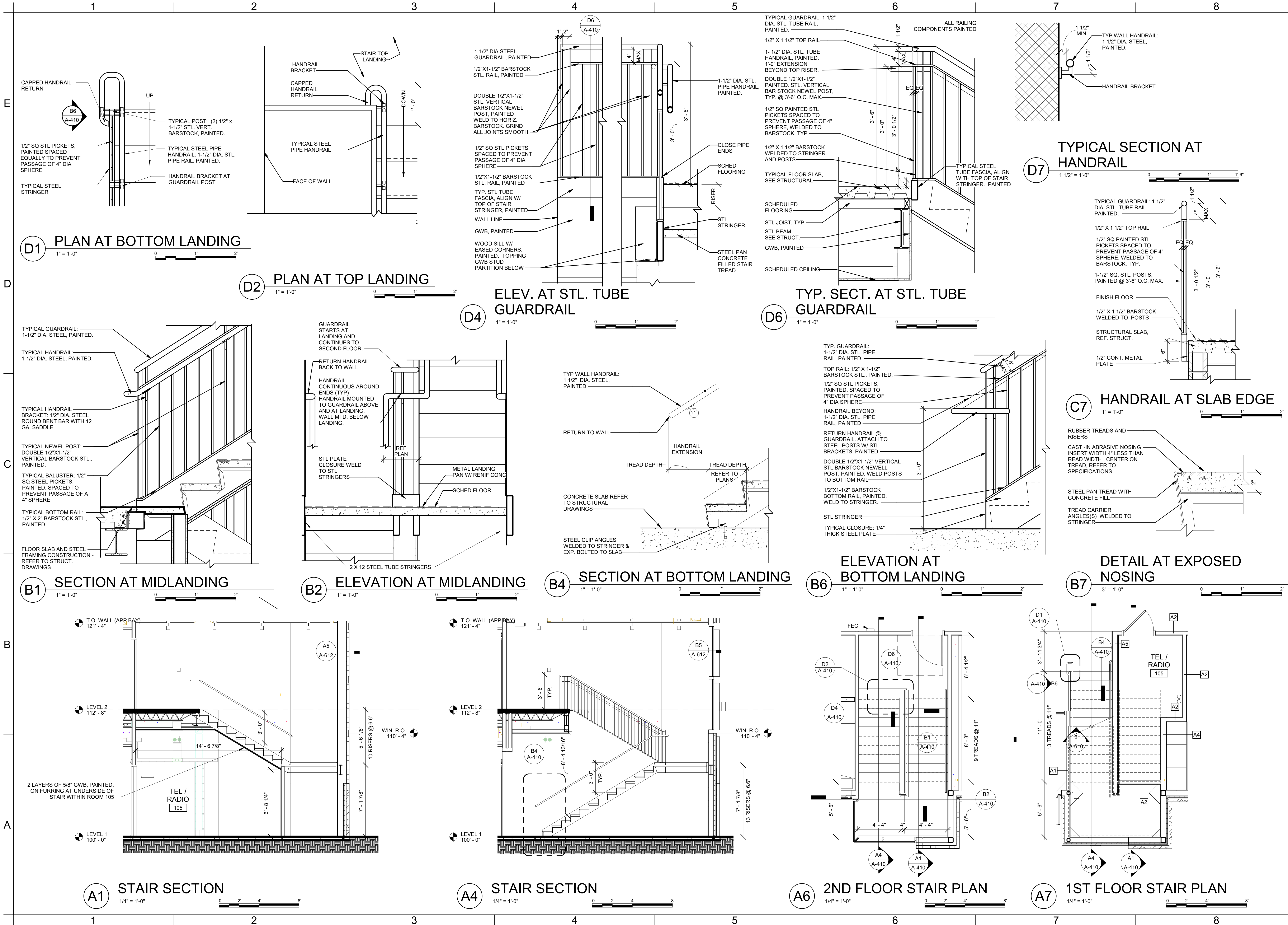
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WALL SECTIONS

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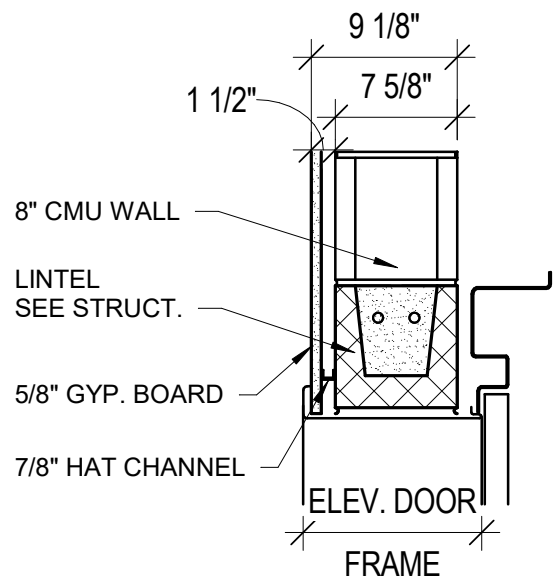
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D

C

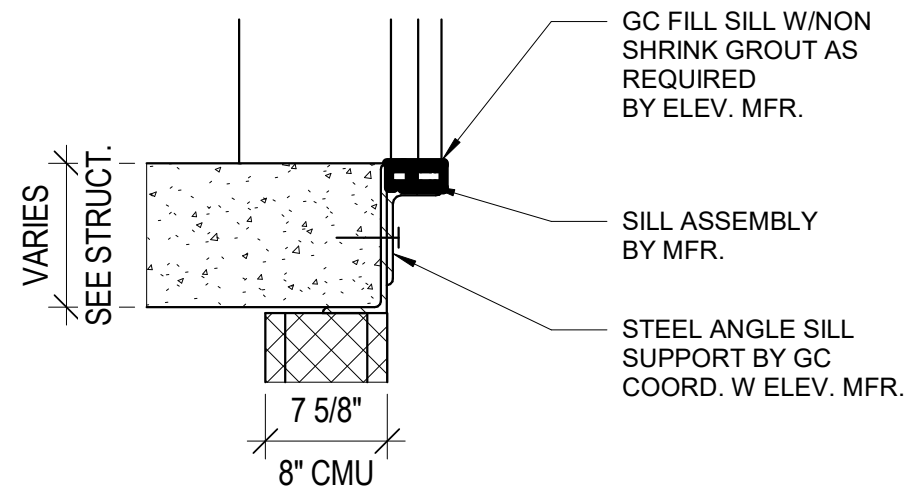
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A



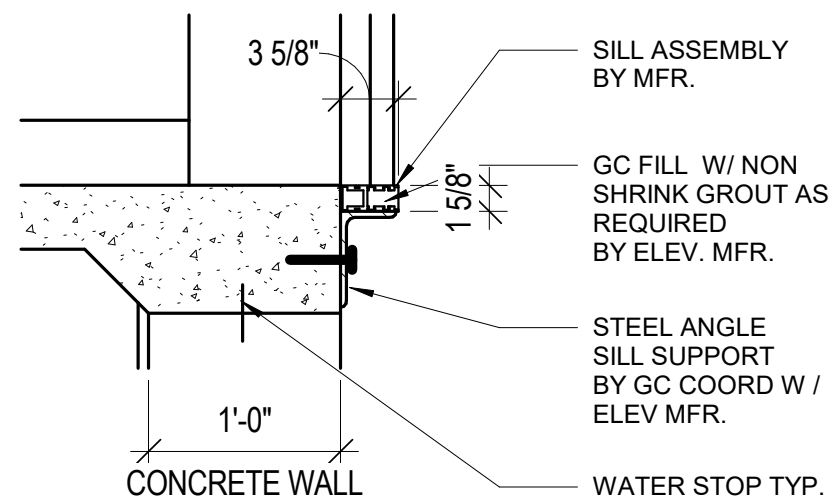
ELEVATOR DOOR
HEAD - TYP.

C5



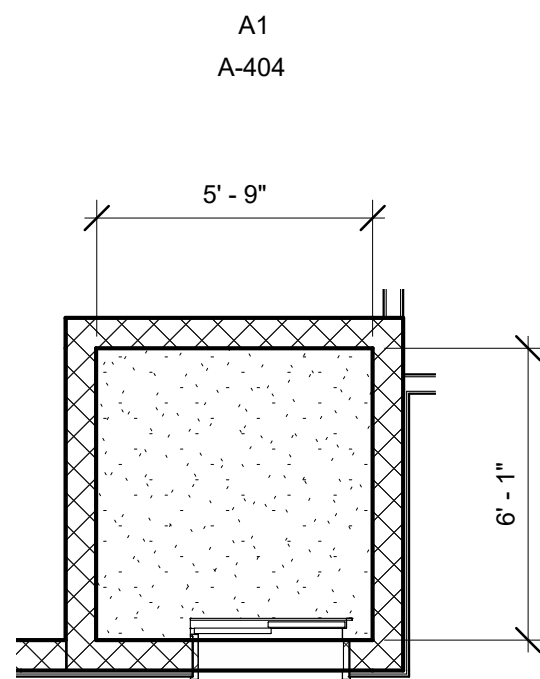
ELEVATOR - DOOR SILL TYP.

B5



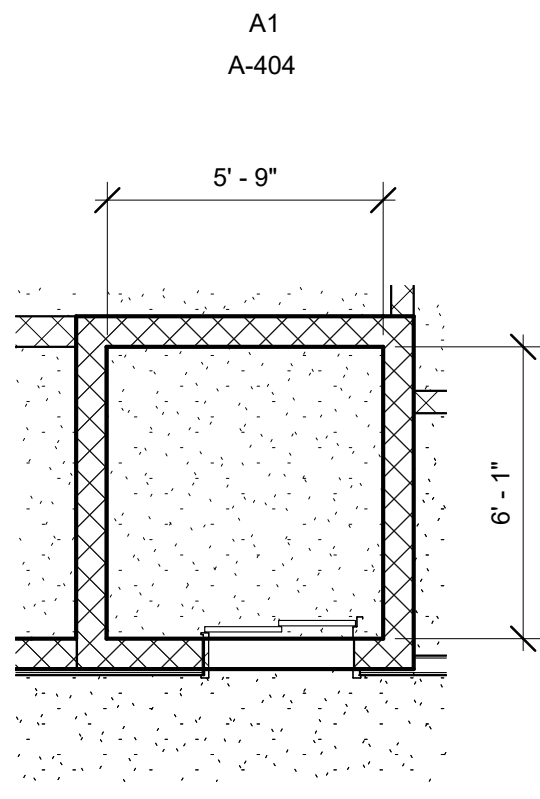
ELEVATOR DOOR SILL
1ST FLOOR

A5



ENL. ELEVATOR PLAN -
2ND FLOOR

B7



ENL. ELEVATOR PLAN -
1ST FLOOR

A7



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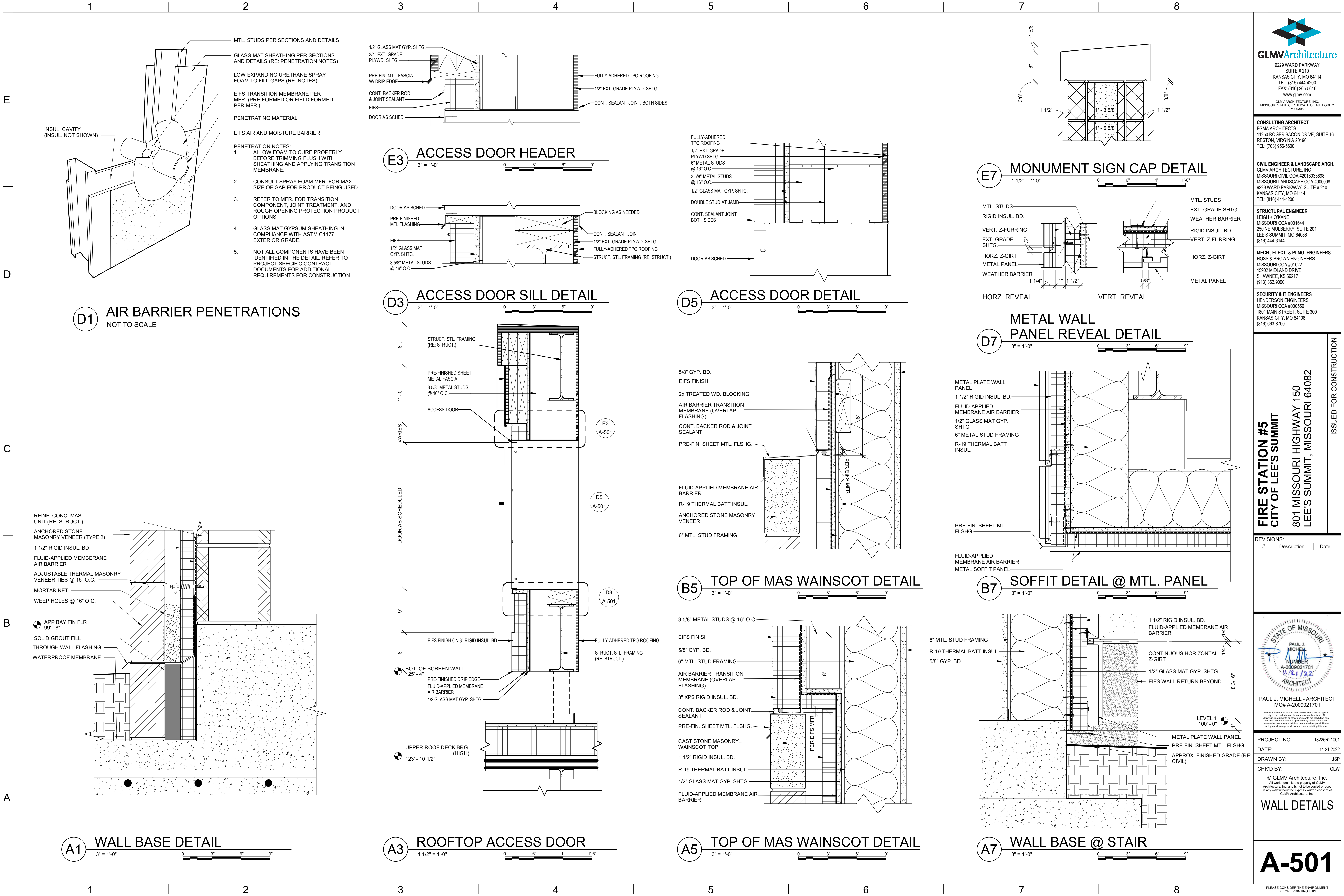
PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: JSP
CHK'D BY: PJM

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**ENLARGED
ELEVATOR PLAN**

A-411

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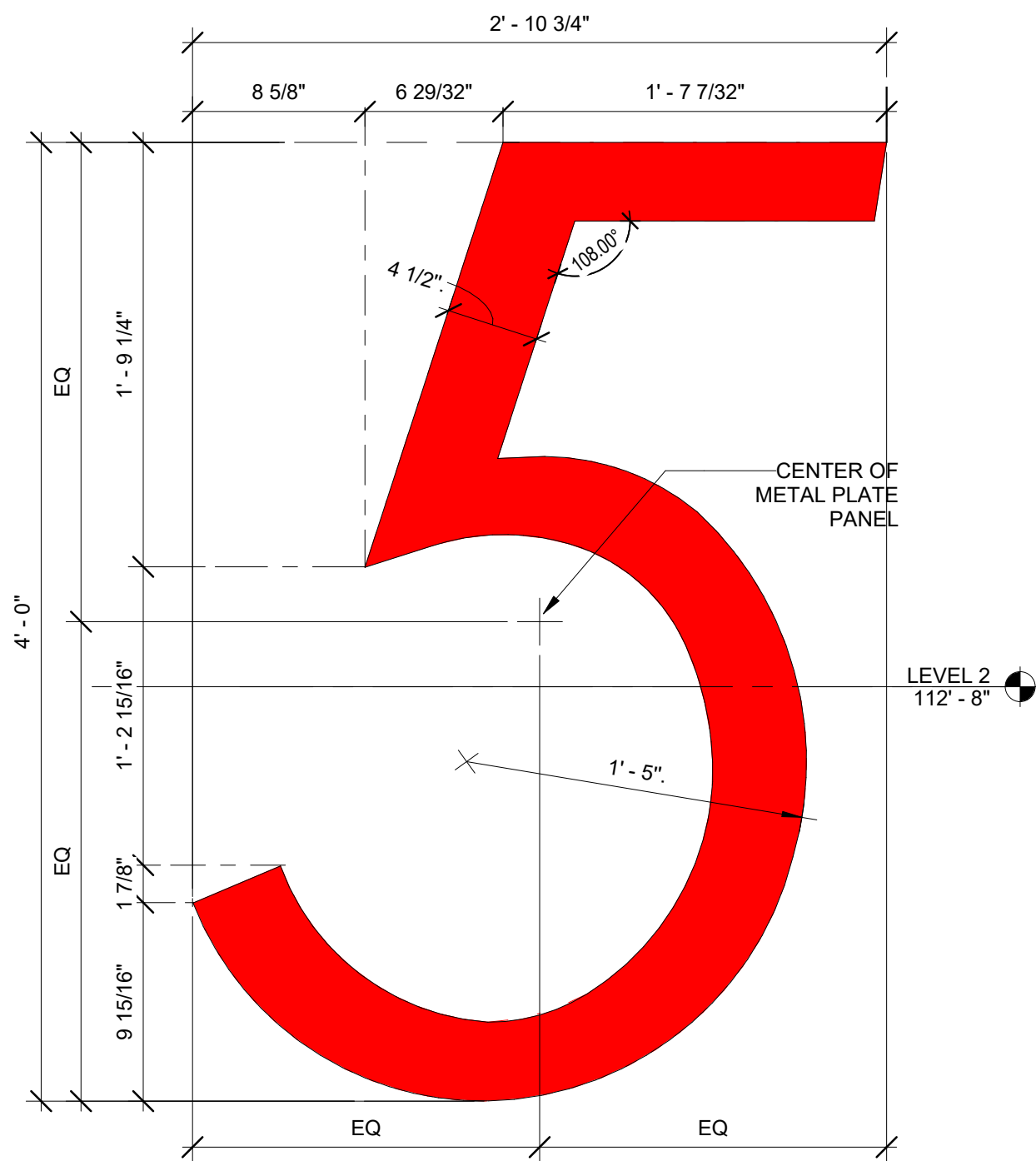
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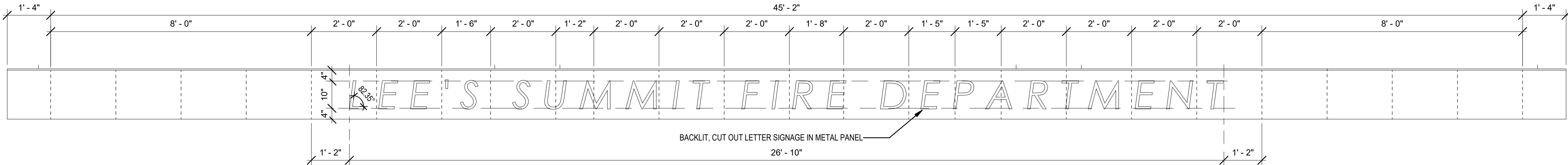
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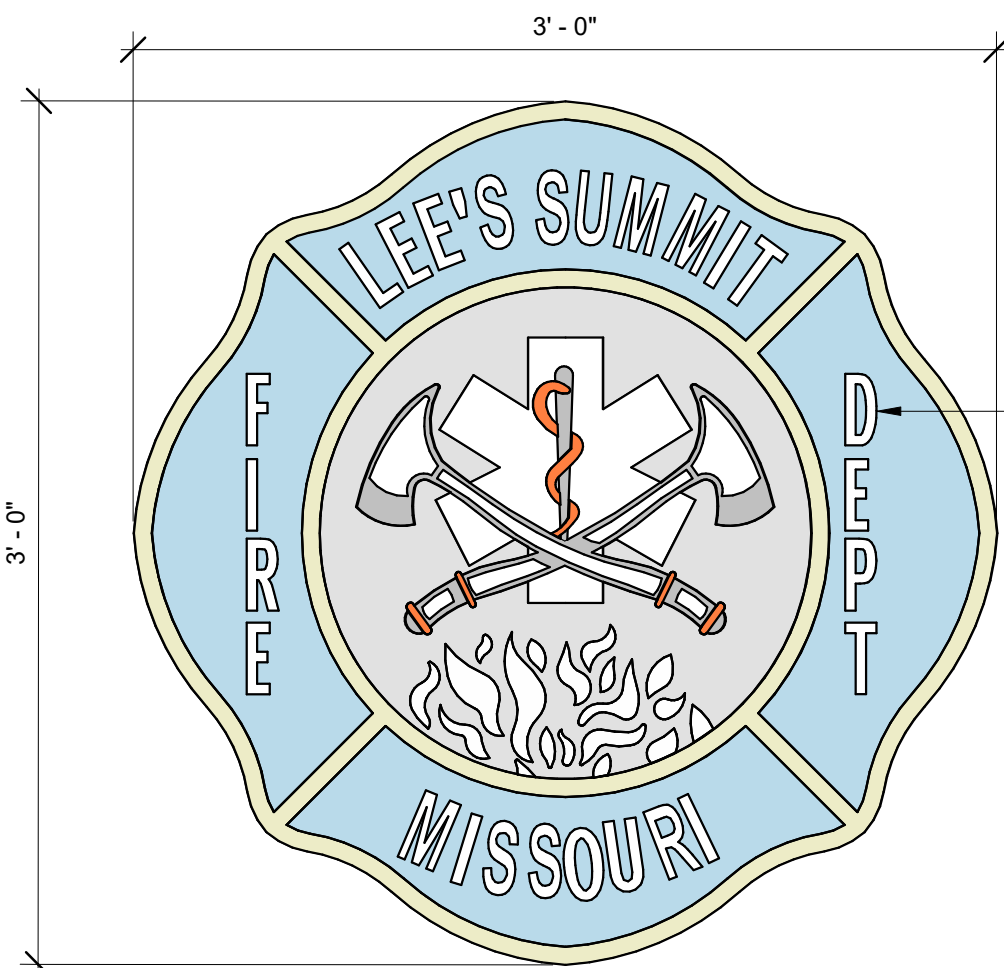
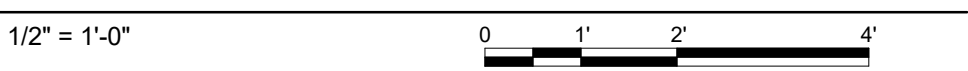
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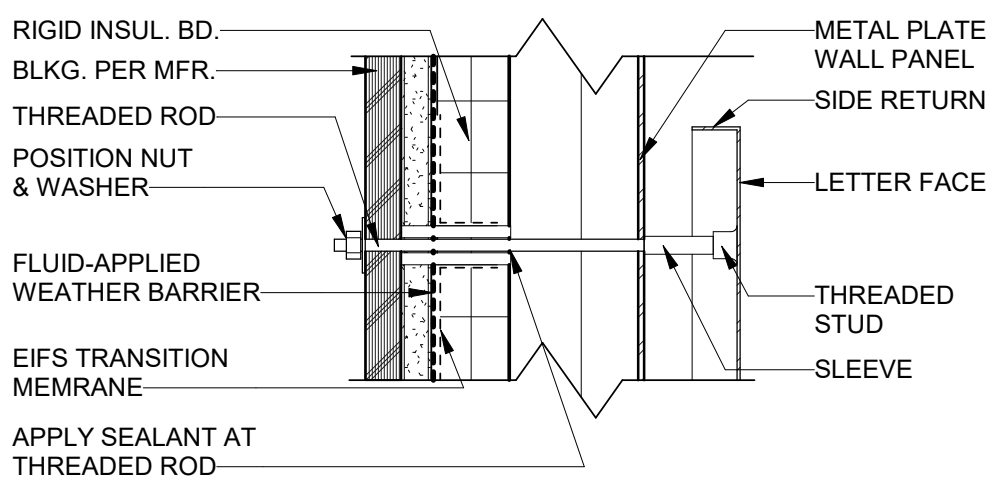
D1 SIGNAGE DETAIL



C1 CANOPY SIGN DETAIL



- NOTES:
1. VERIFY COLORS WITH THE OWNER.
 2. OWNER TO PROVIDE ELECTRONIC COPY ACCURATELY DEPICTING ACTUAL LAYOUT FOR USE IN THE CREATION OF THE CREST.
 3. COLORS SHOWN ARE NOT ACTUAL COLORS, ONLY REPRESENTATIVE OF THE NUMBER DIFFERENT COLORS TO BE EXPECTED.



A4 SIGNAGE ATTACHMENT DETAIL



A1 FIRE DEPARTMENT CREST



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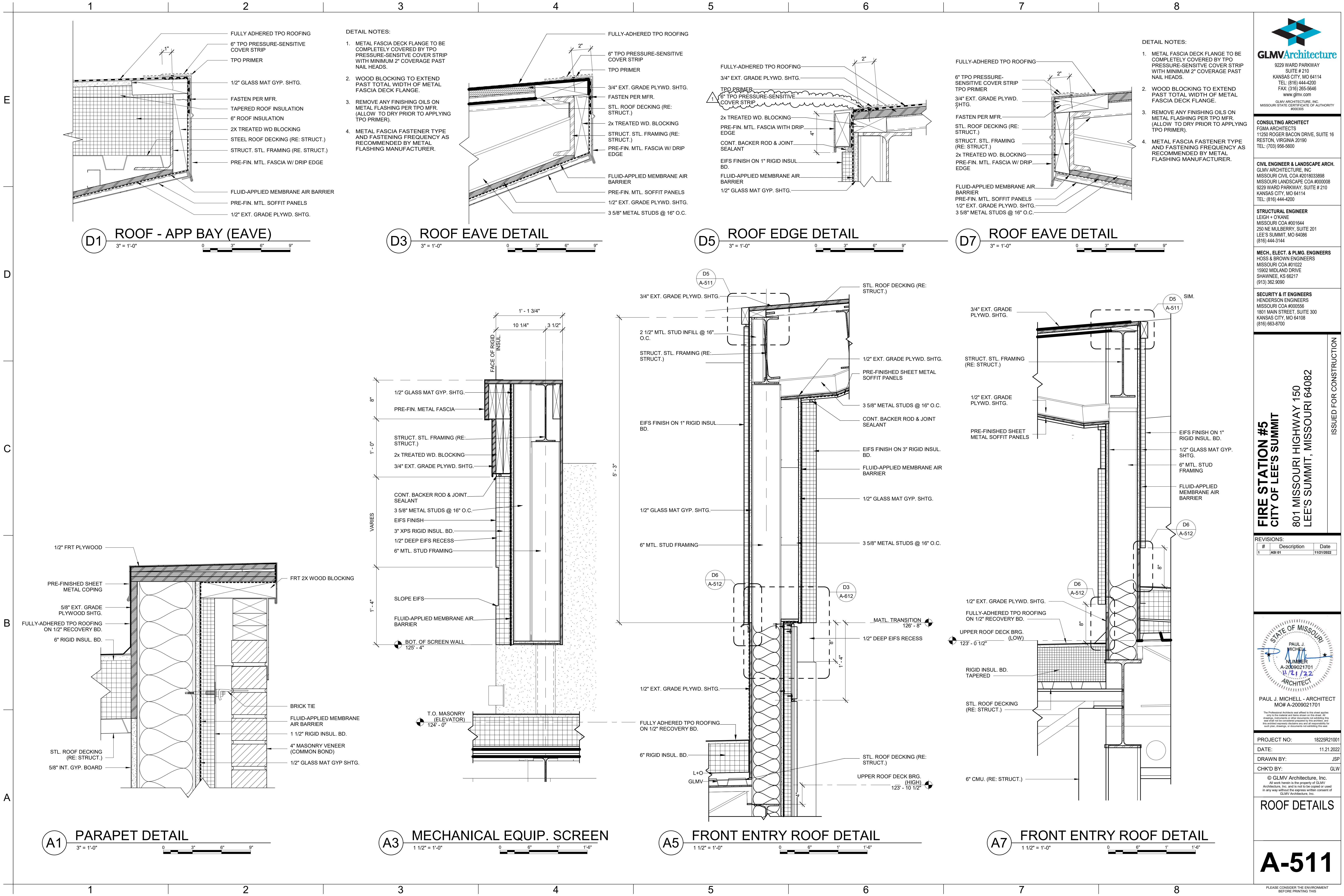
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WALL DETAILS

A-502

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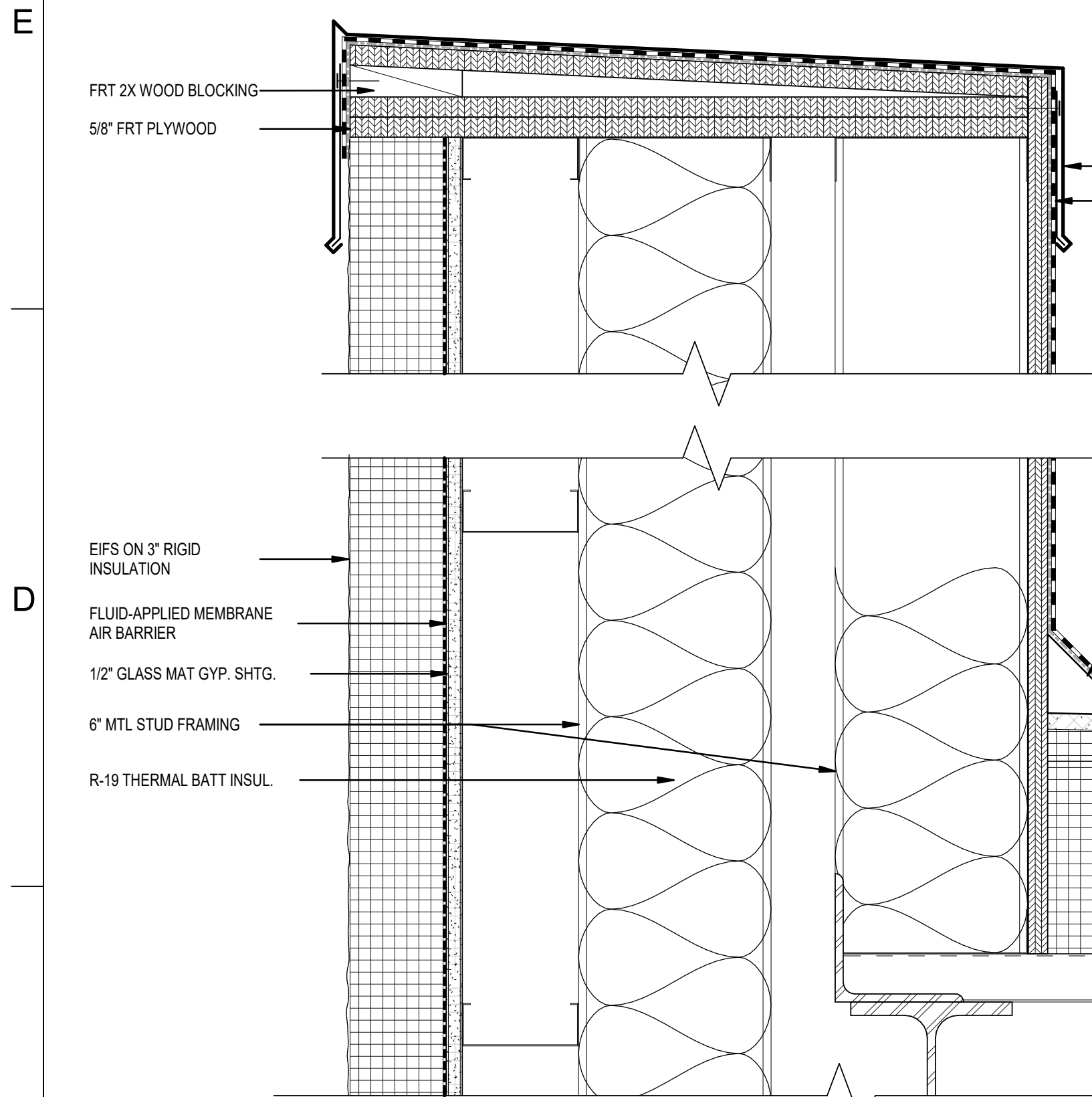
PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: JSP
CHK'D BY: GLW

ROOF DETAILS

A-511

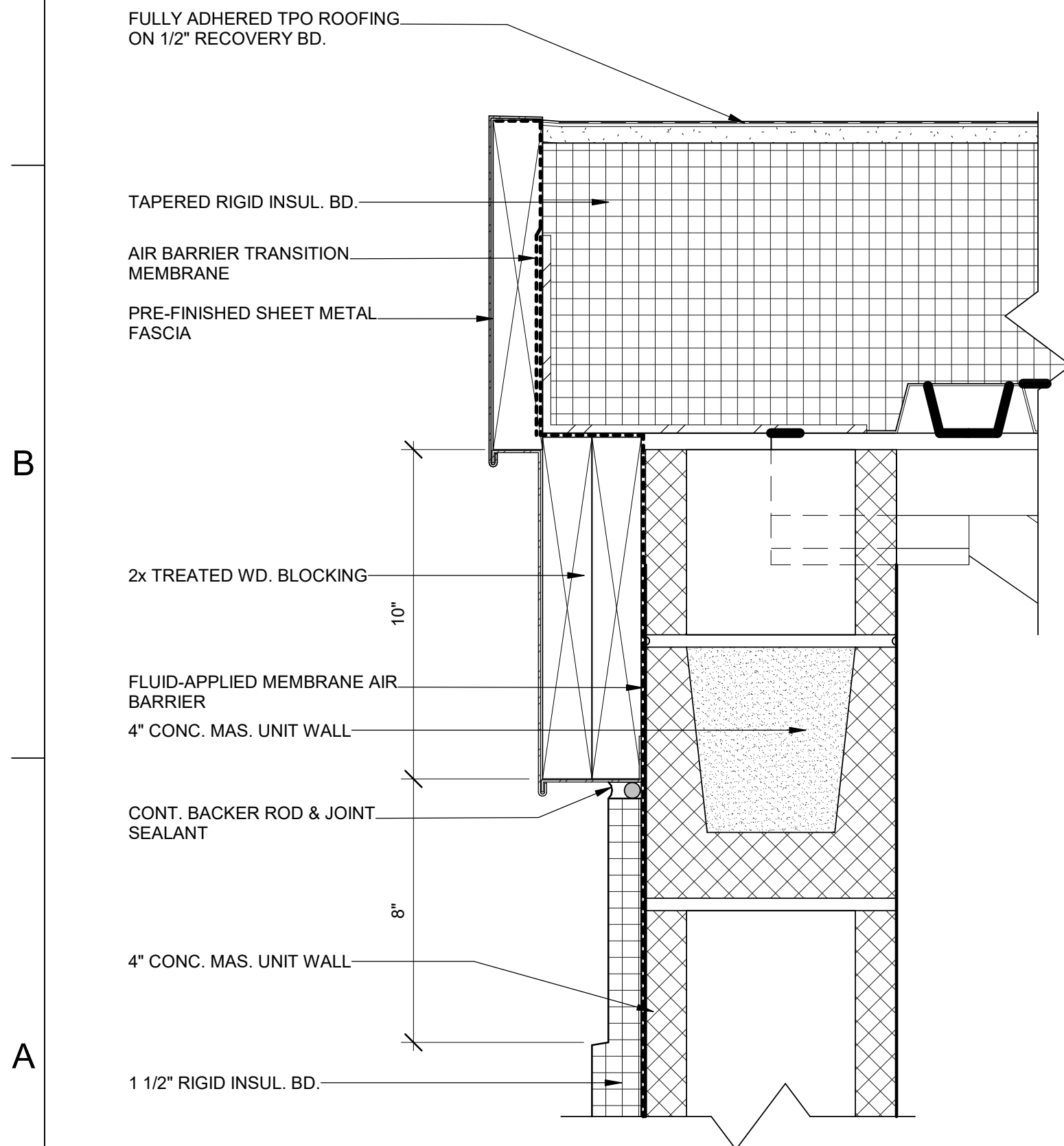
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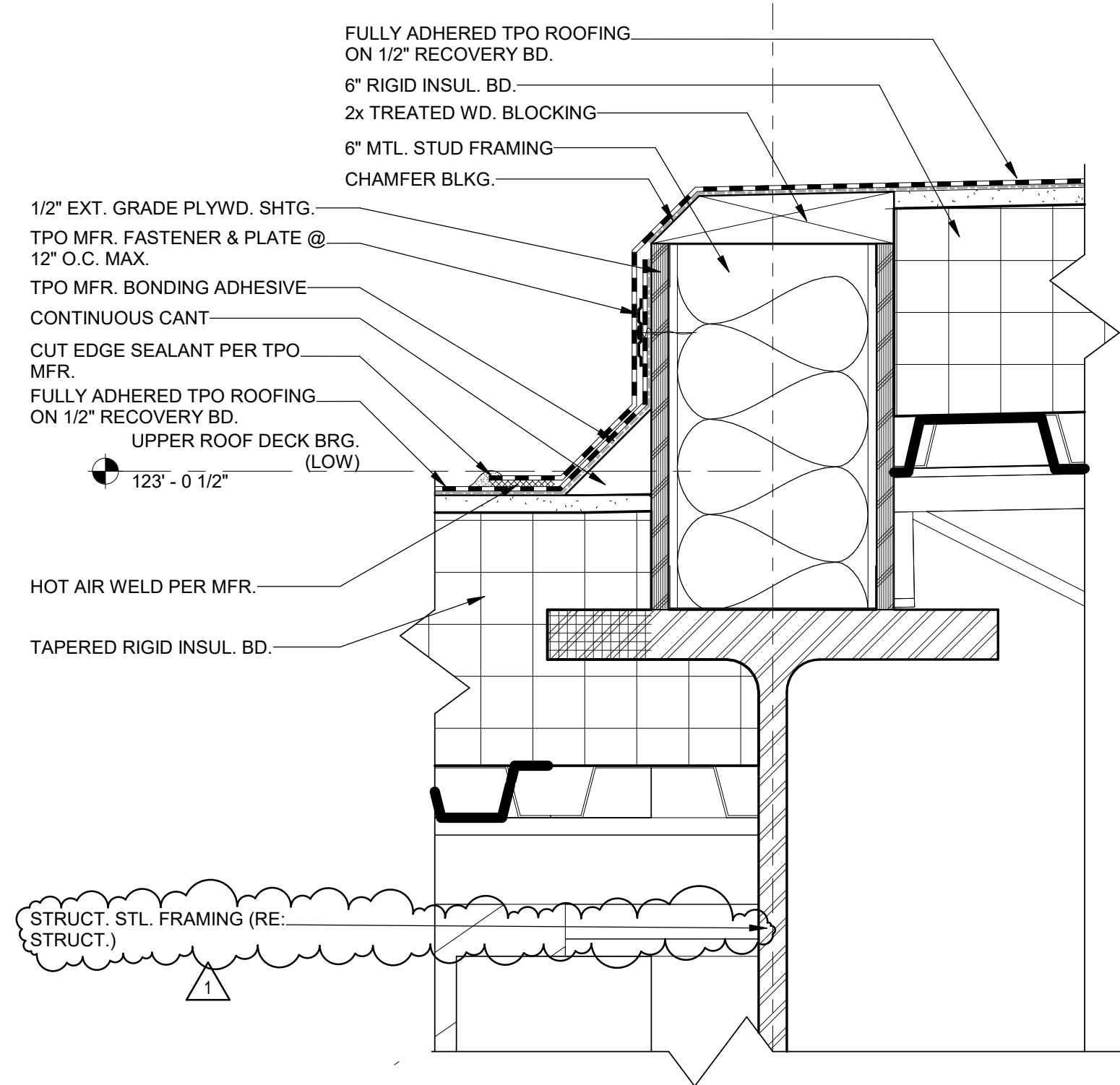
C1 PARAPET DTL @ EIFS

3" = 1'-0" 0 3' 6' 9'



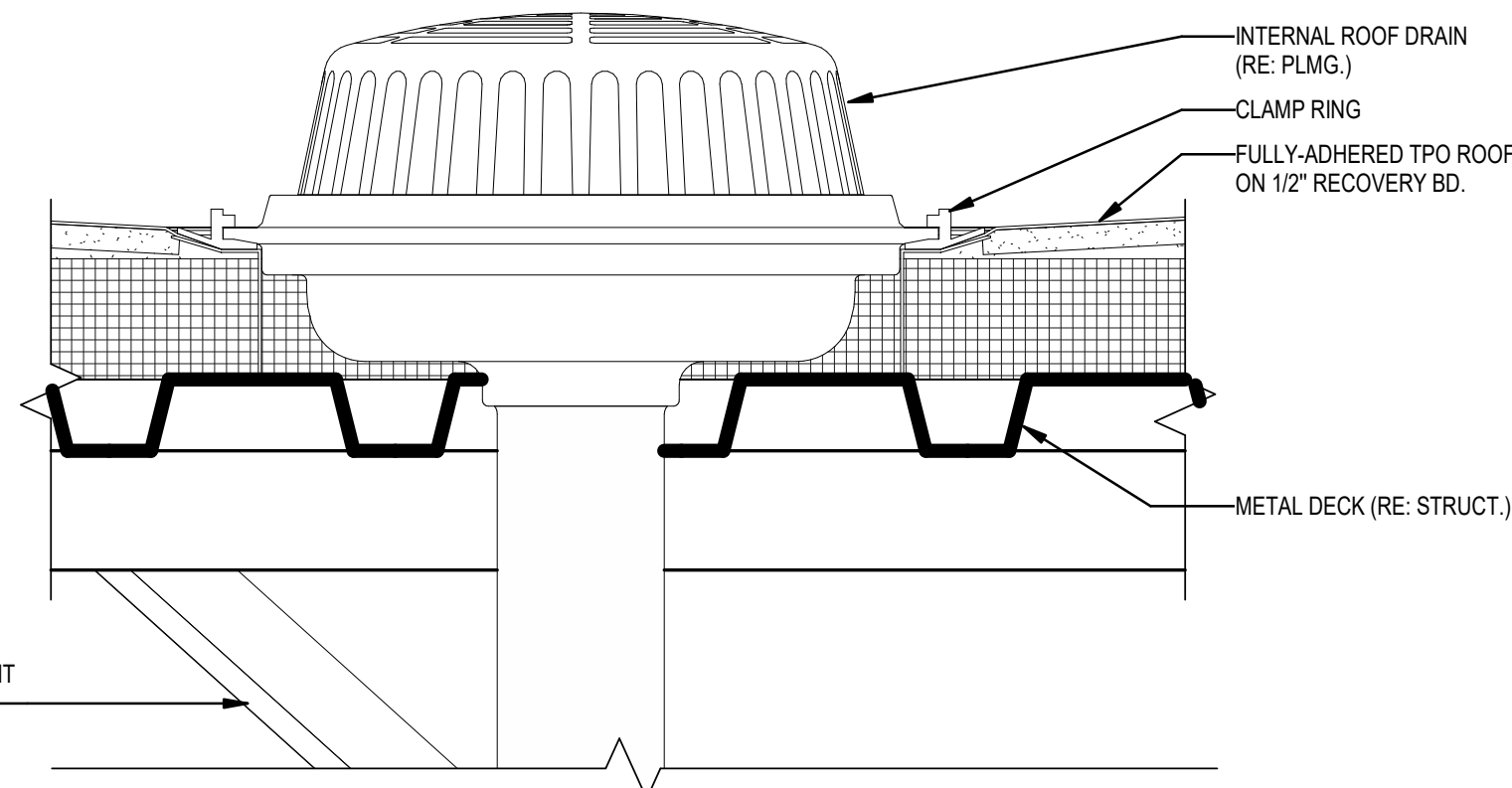
A1 ROOF RAKE EDGE DETAIL

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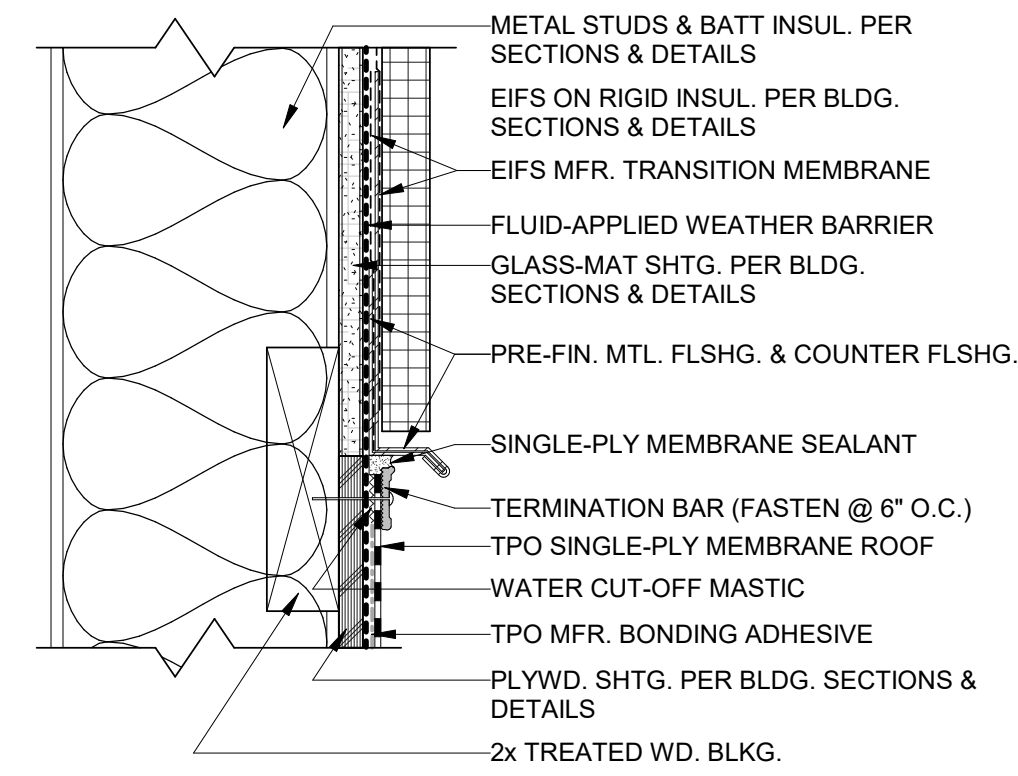
A3 ROOF TRANSITION DETAIL

3" = 1'-0" 0 3' 6' 9'

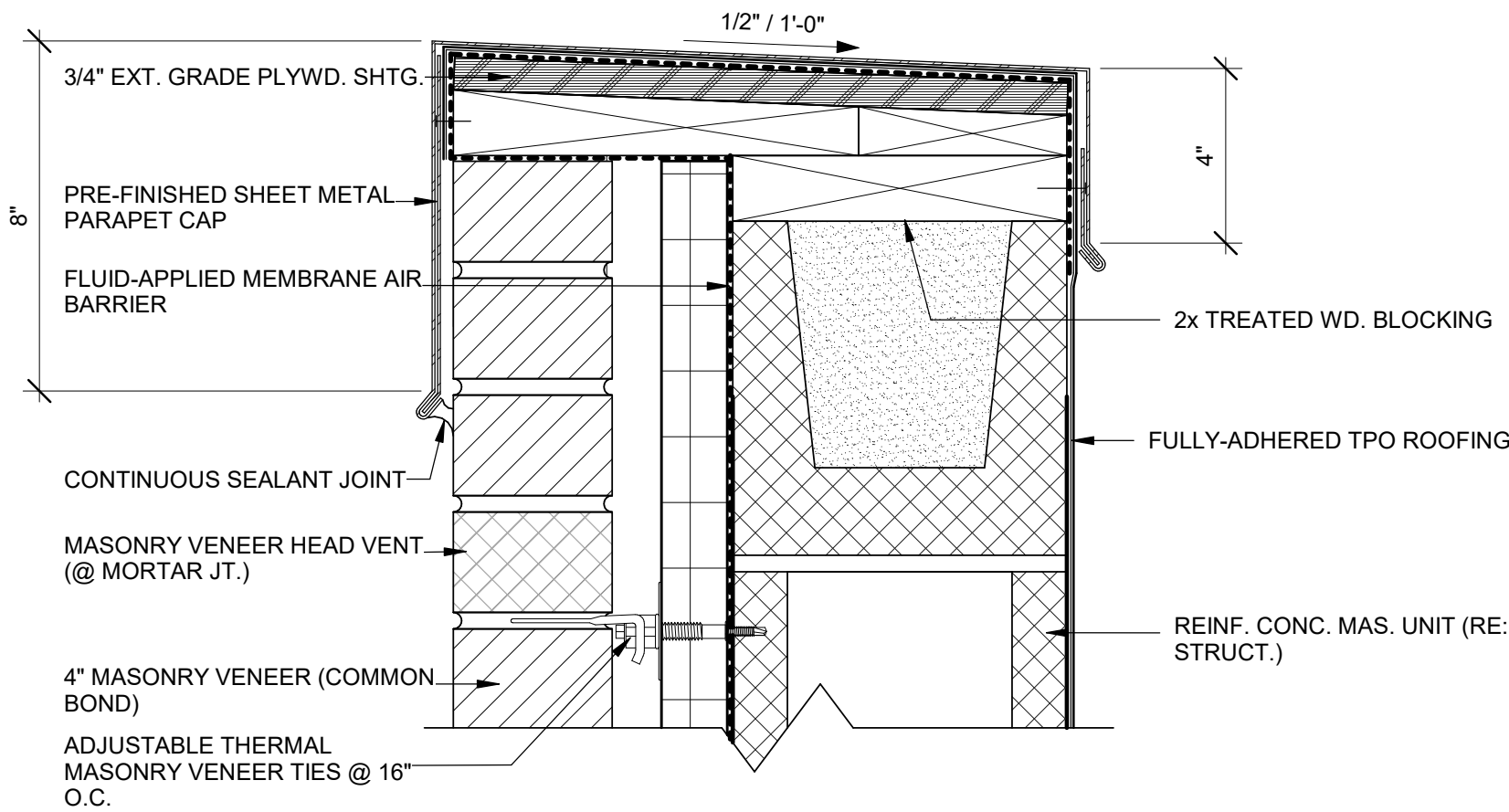


C3 ROOF DRAIN DETAIL

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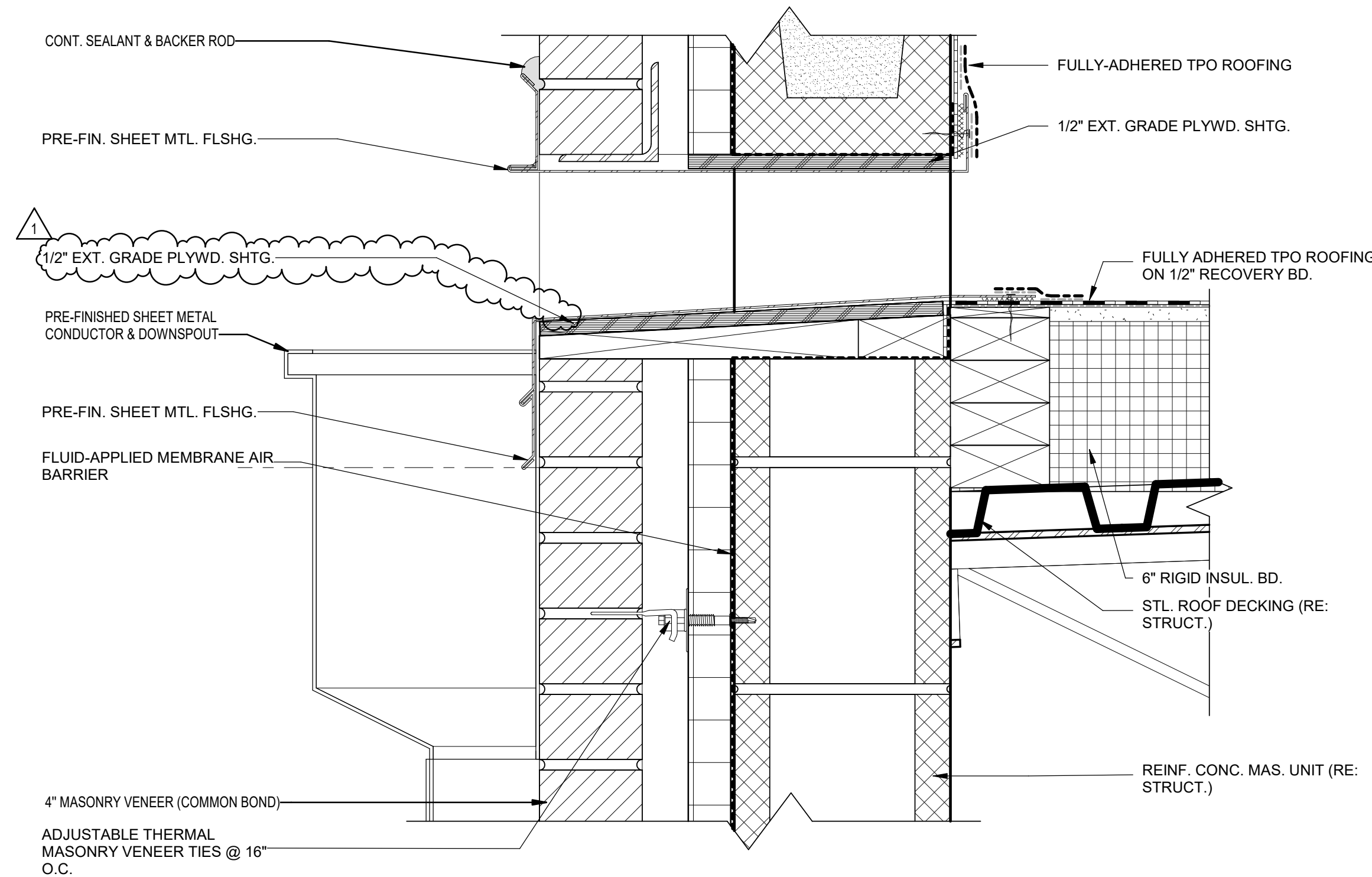


D6 ROOF TERMINATION DETAIL



C6 PARAPET DETAIL

3" = 1'-0" 0 3' 6' 9'



A6 SCUPPER DETAIL

3" = 1'-0" 0 3' 6' 9'

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ROOF DETAILS

A-512

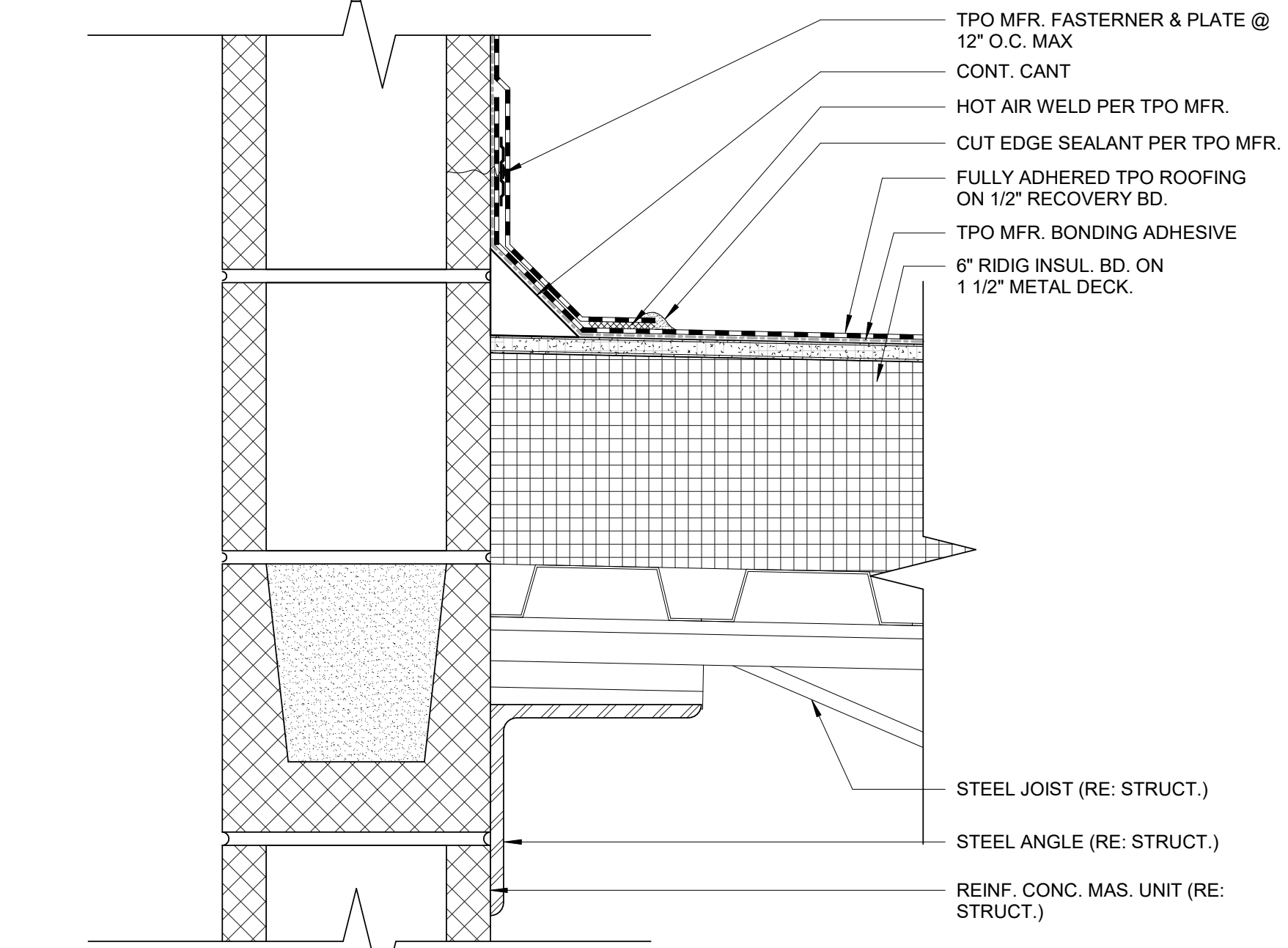
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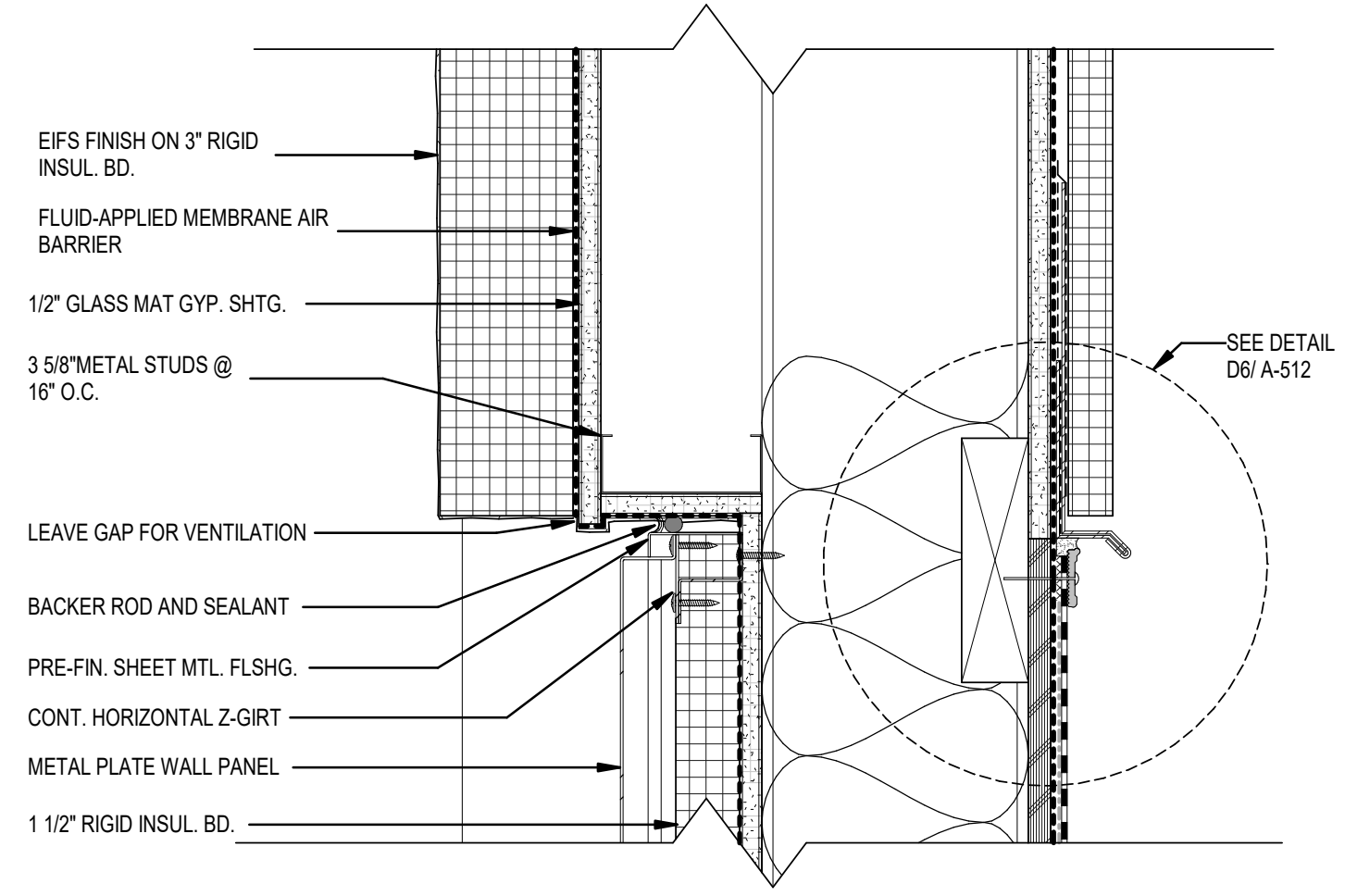
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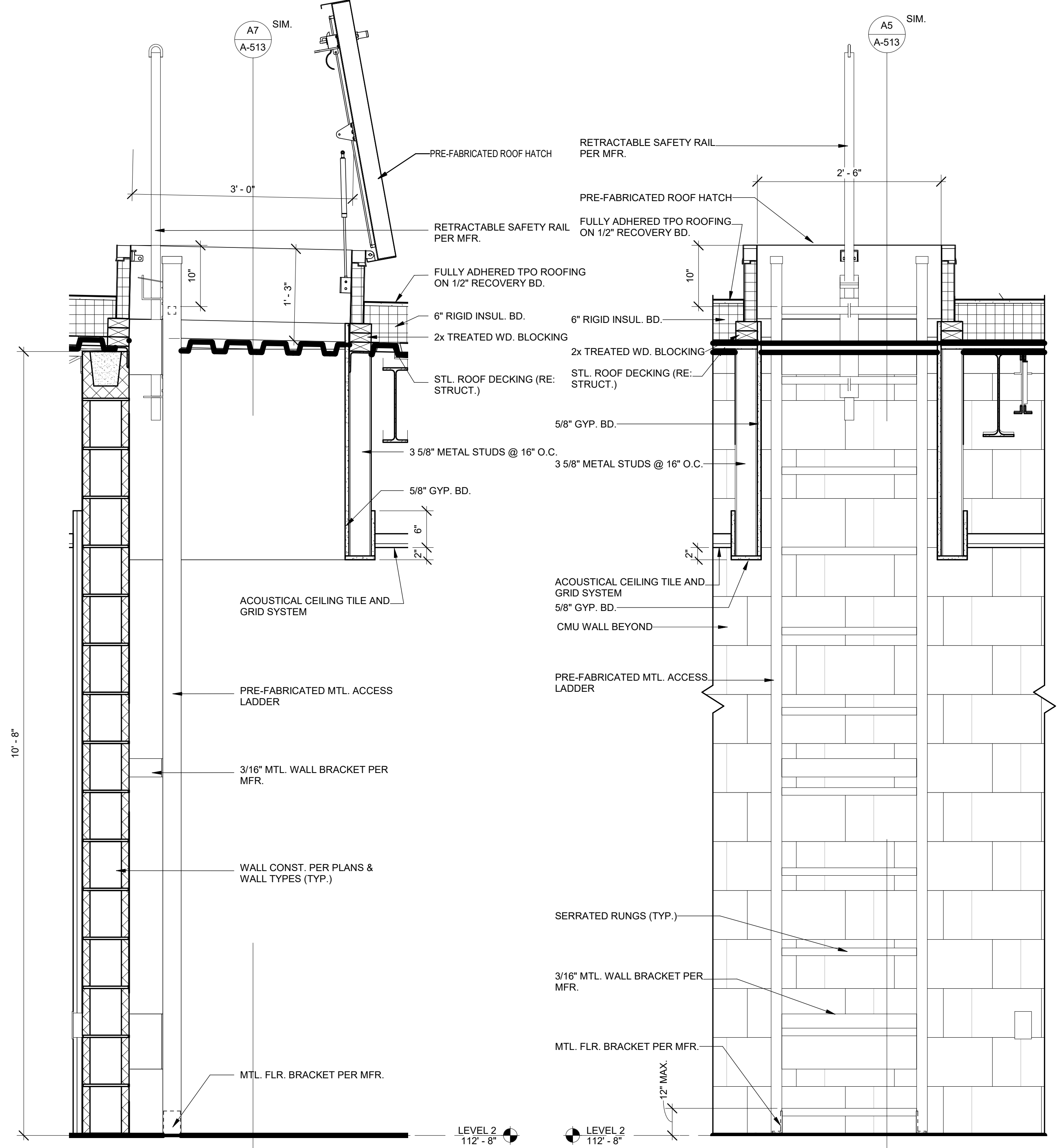
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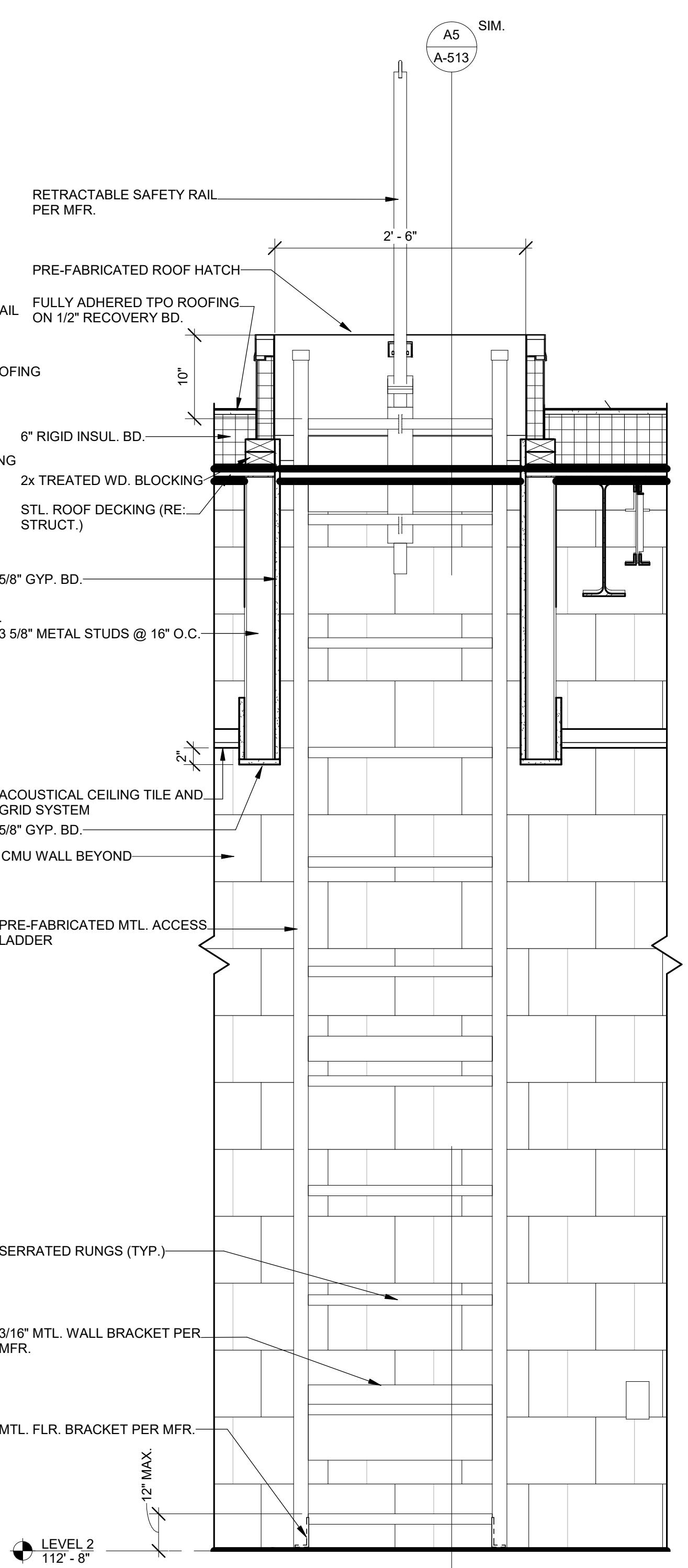
B2 WALL- CMU - VERT TRANS @ APP BAY
3" = 1'-0"



A2 EIFS TRANSITION DETAIL
3" = 1'-0"



A5 ROOF HATCH DETAIL
1" = 1'-0"



A7 ROOF HATCH DETAIL
1" = 1'-0"



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E

D

C

B

A

1

1



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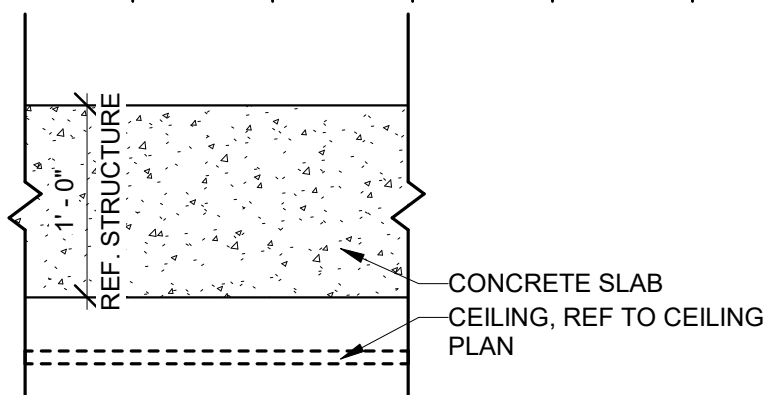
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PARTITION TYPES

A-601

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@ STORM SHELTER

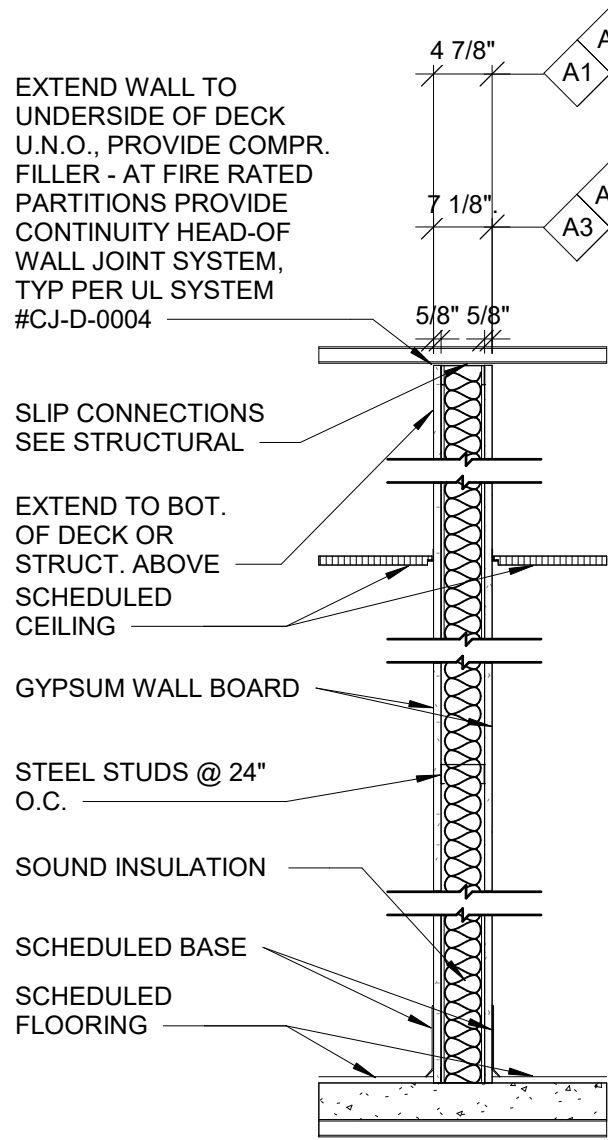
E7 2 HOUR FLOOR/CEILING ASSEMBLY

1" = 1'-0"

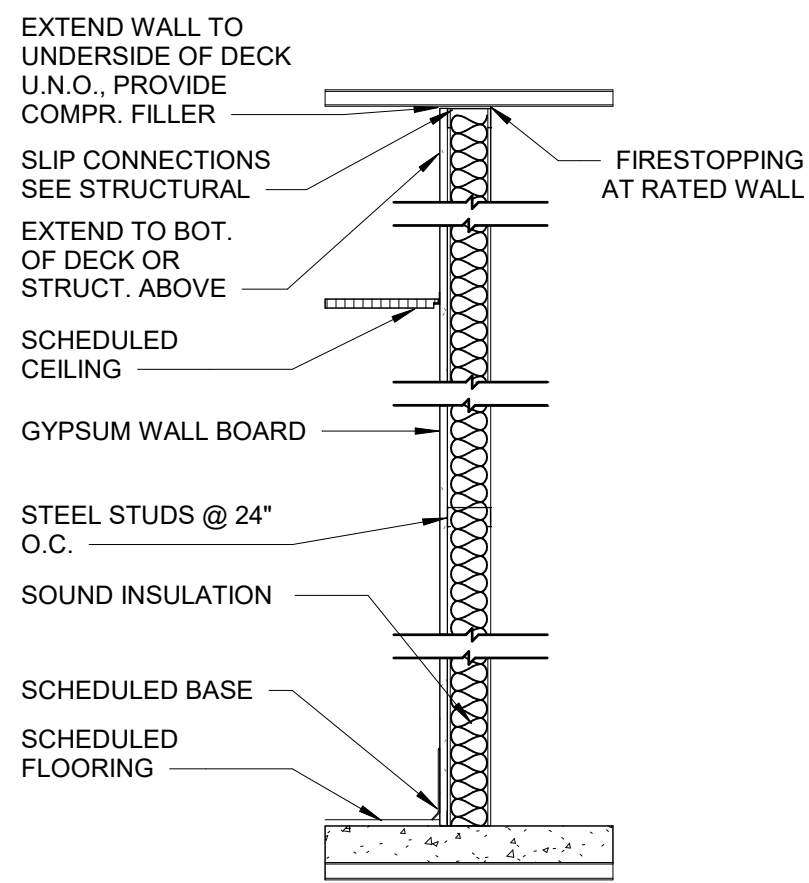


TABLE 722.2.2.1
MINIMUM SLAB THICKNESS (inches)

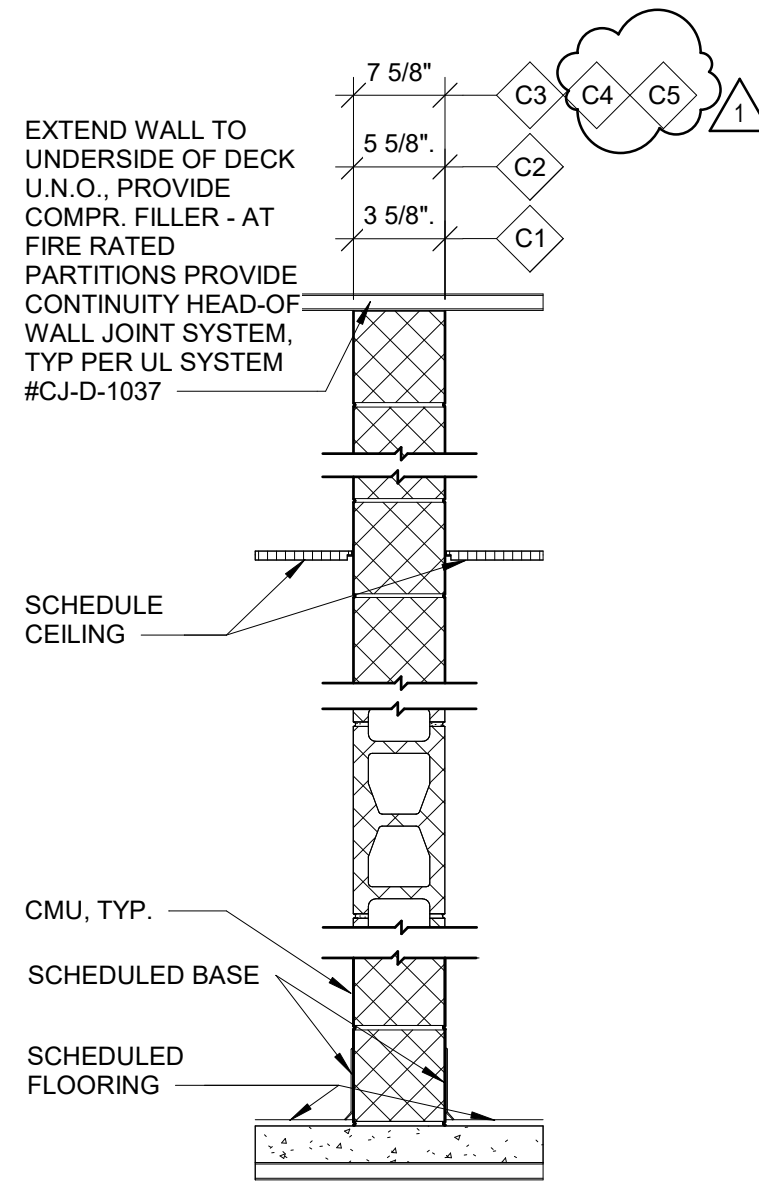
| CONCRETE TYPE | FIRE-RESISTANCE RATING (hours) | | | | |
|------------------|--------------------------------|-------|-----|-----|-----|
| | 1 | 1 1/2 | 2 | 3 | 4 |
| Siliceous | 3.5 | 4.3 | 5 | 6.2 | 7 |
| Carbonate | 3.2 | 4 | 4.6 | 5.7 | 6.6 |
| Sand-lightweight | 2.7 | 3.3 | 3.8 | 4.6 | 5.4 |
| Lightweight | 2.5 | 3.1 | 3.6 | 4.4 | 5.1 |



- A1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- A2** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- STC 48
- A3** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- STC 44
- A4** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- A5** 6" STEEL STUD PARTITION
- 2 LAYERS 5/8" TYPE 'X' GWB ONE SIDE
- 1 LAYER 5/8" TYPE 'X' GWB ONE SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419



- B1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB 1 SIDE
- B3** 1 5/8" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB
- B4** 7/8" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB
- B5** 6" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB



- C1** 4" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C2** 6" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C3** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C4** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U906
- C5** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- 2 HR FIRE RATING PER UL DESIGN NO. - U906

A5 PARTITION TYPES

3/4" = 1'-0"



UL Product iQ®

BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

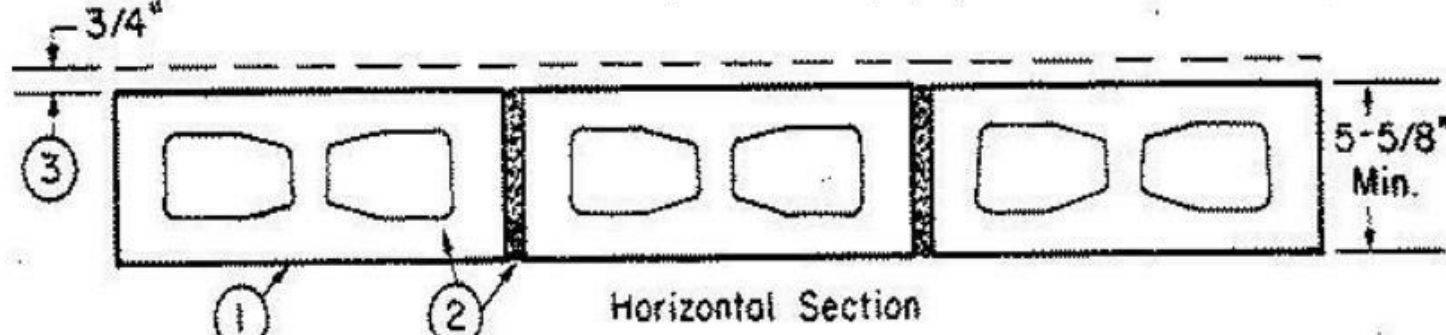
Design No. U906

June 6, 2022

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Concrete Blocks* — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).
See Concrete Blocks category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax HI Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4A. Building Units* — As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

| # | Description | Date |
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| 1 | ASB 01 | 11/21/2022 |


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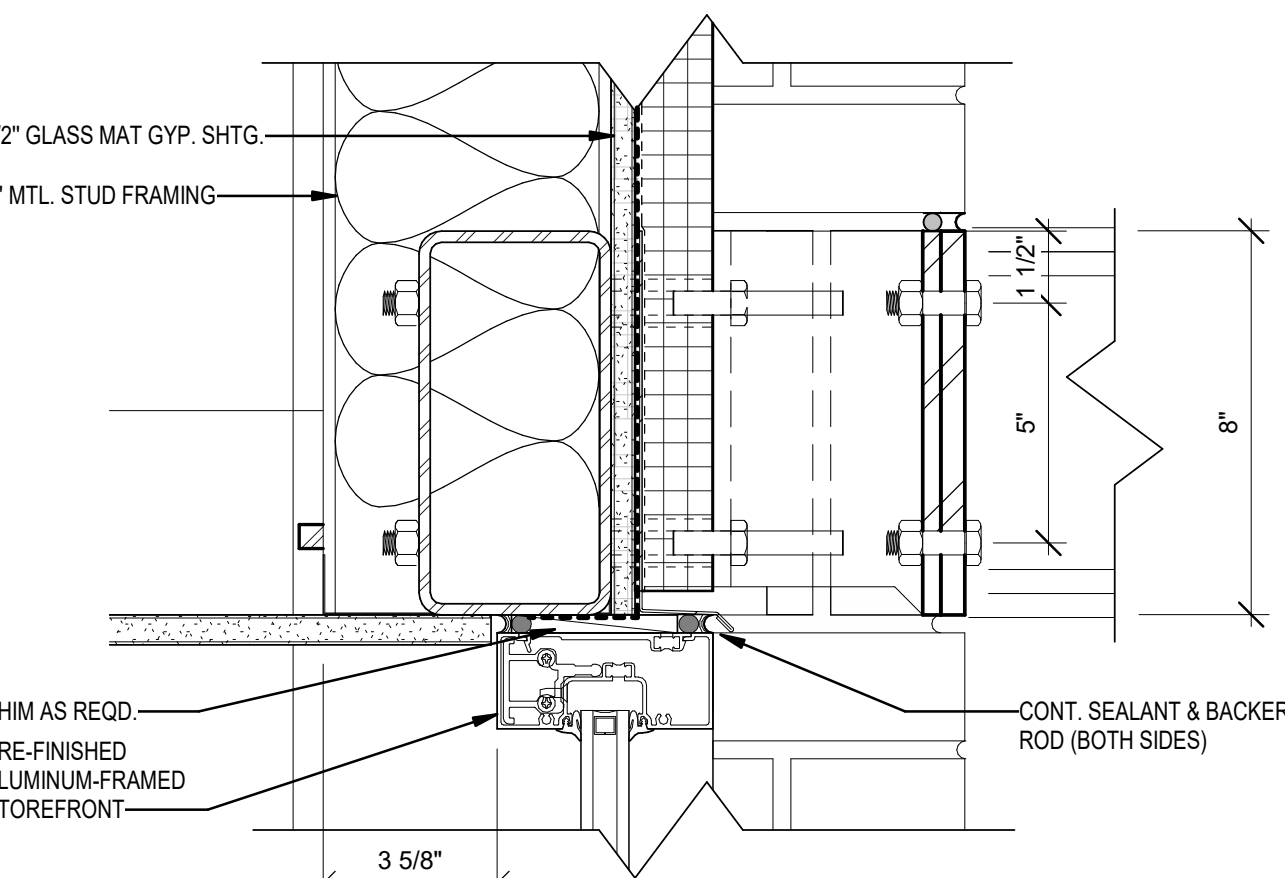
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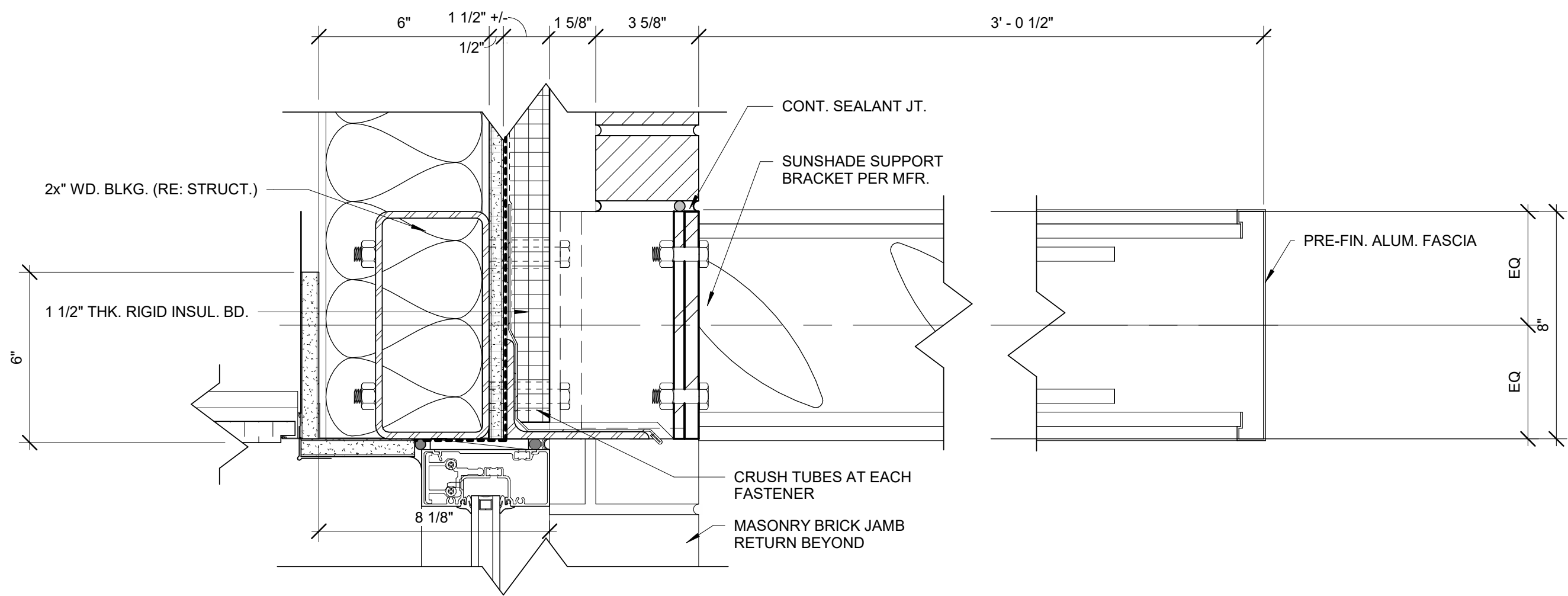
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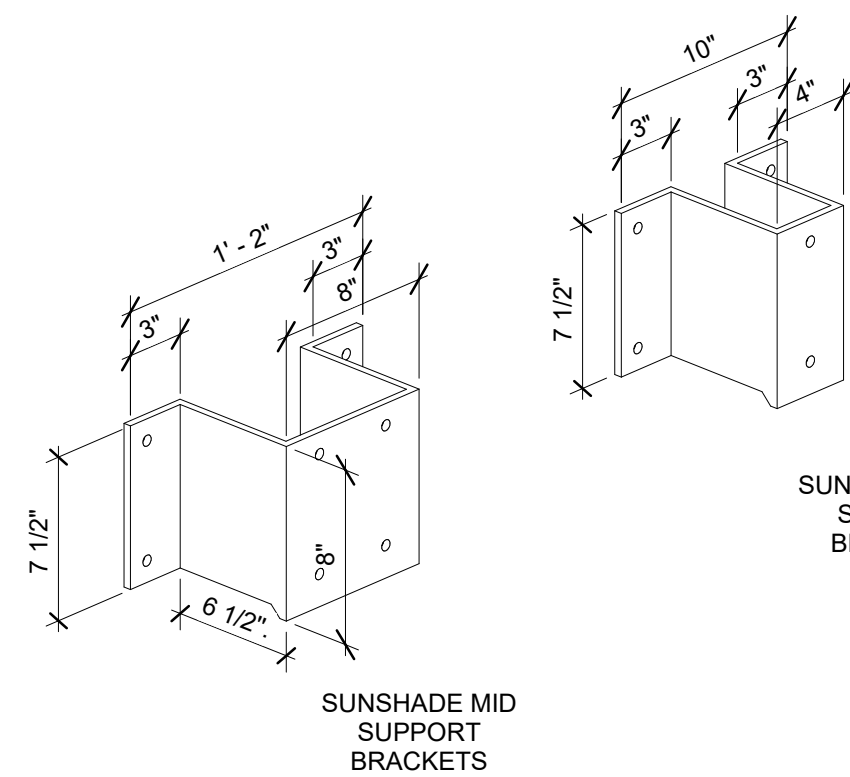
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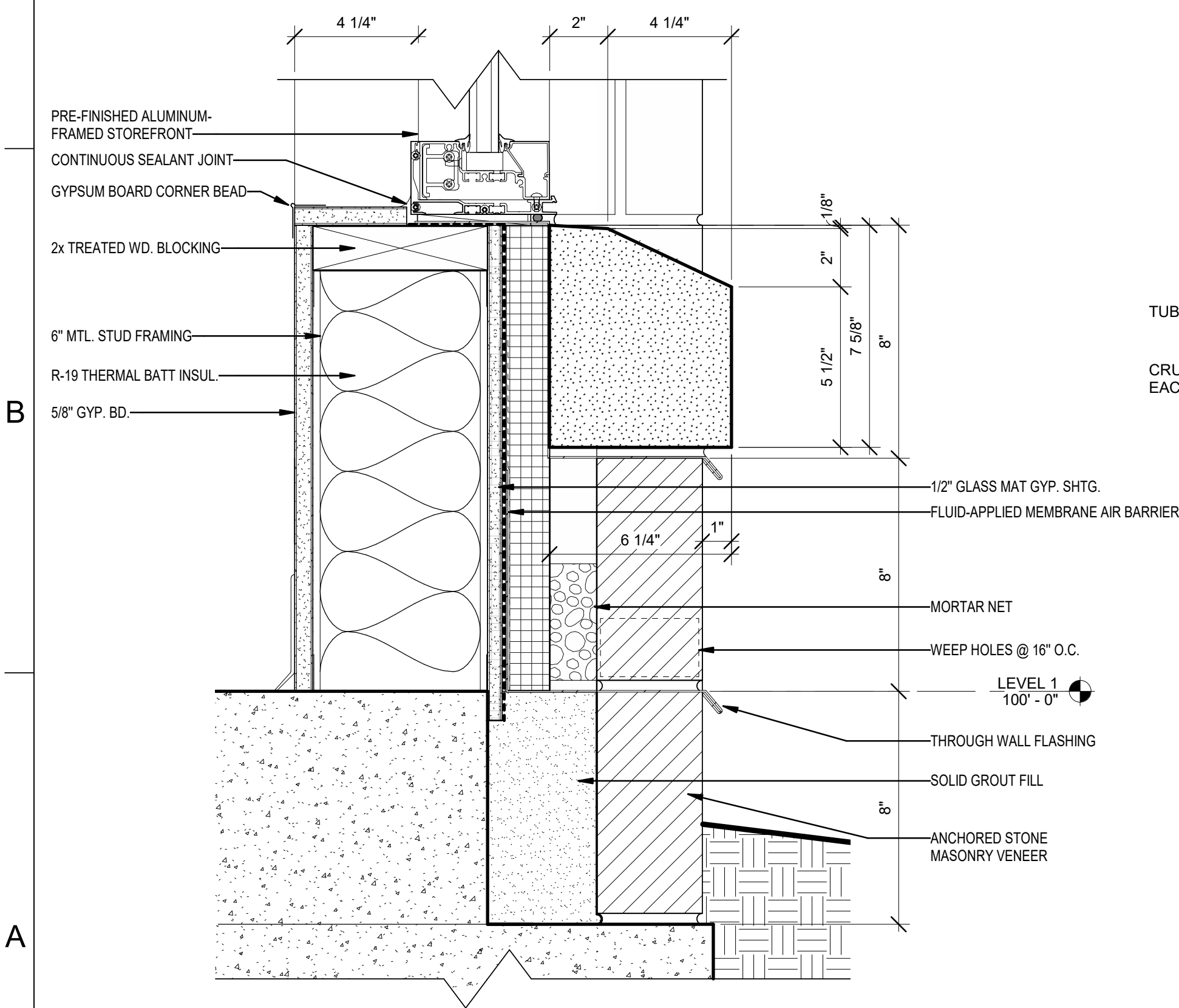
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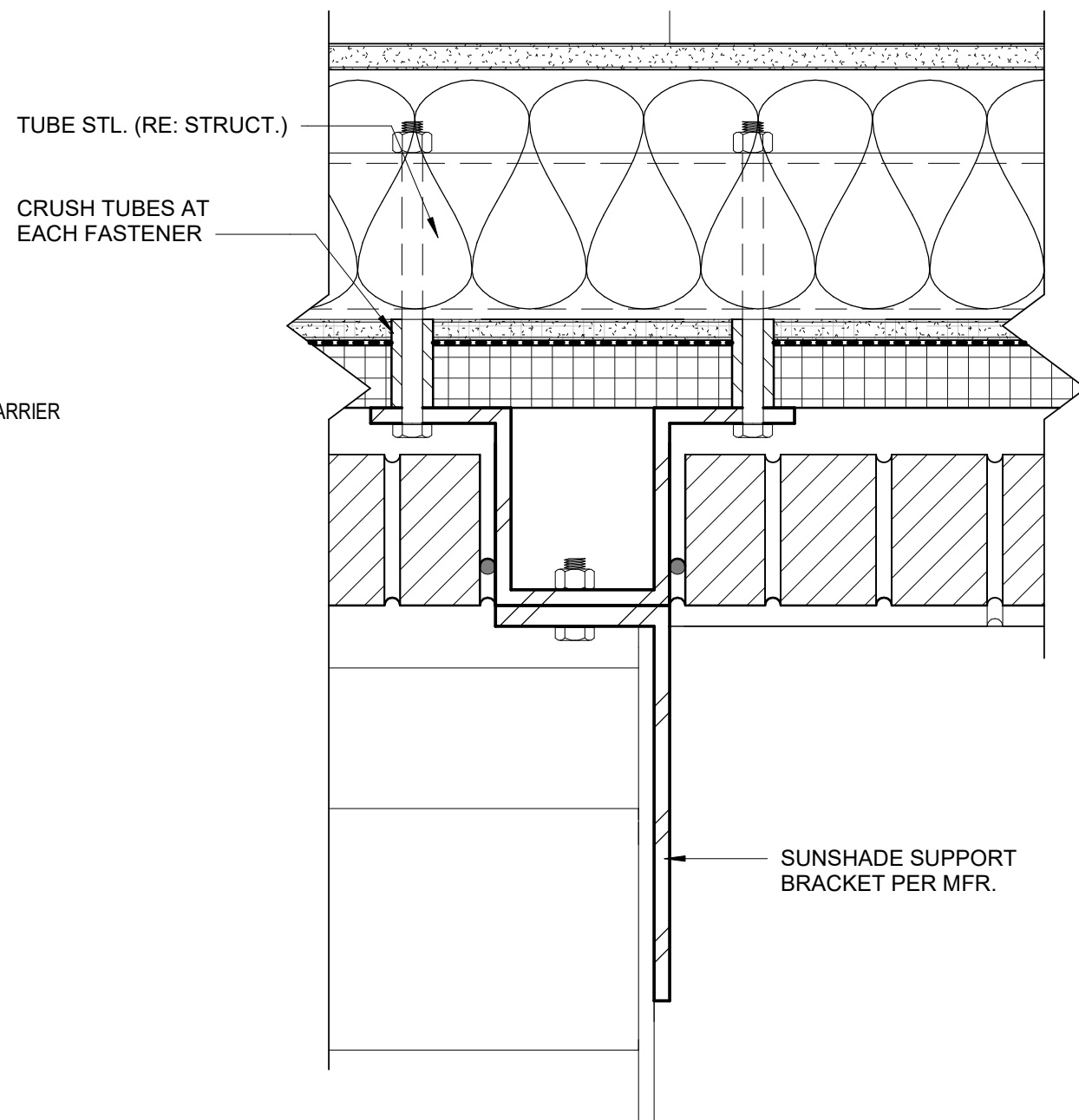
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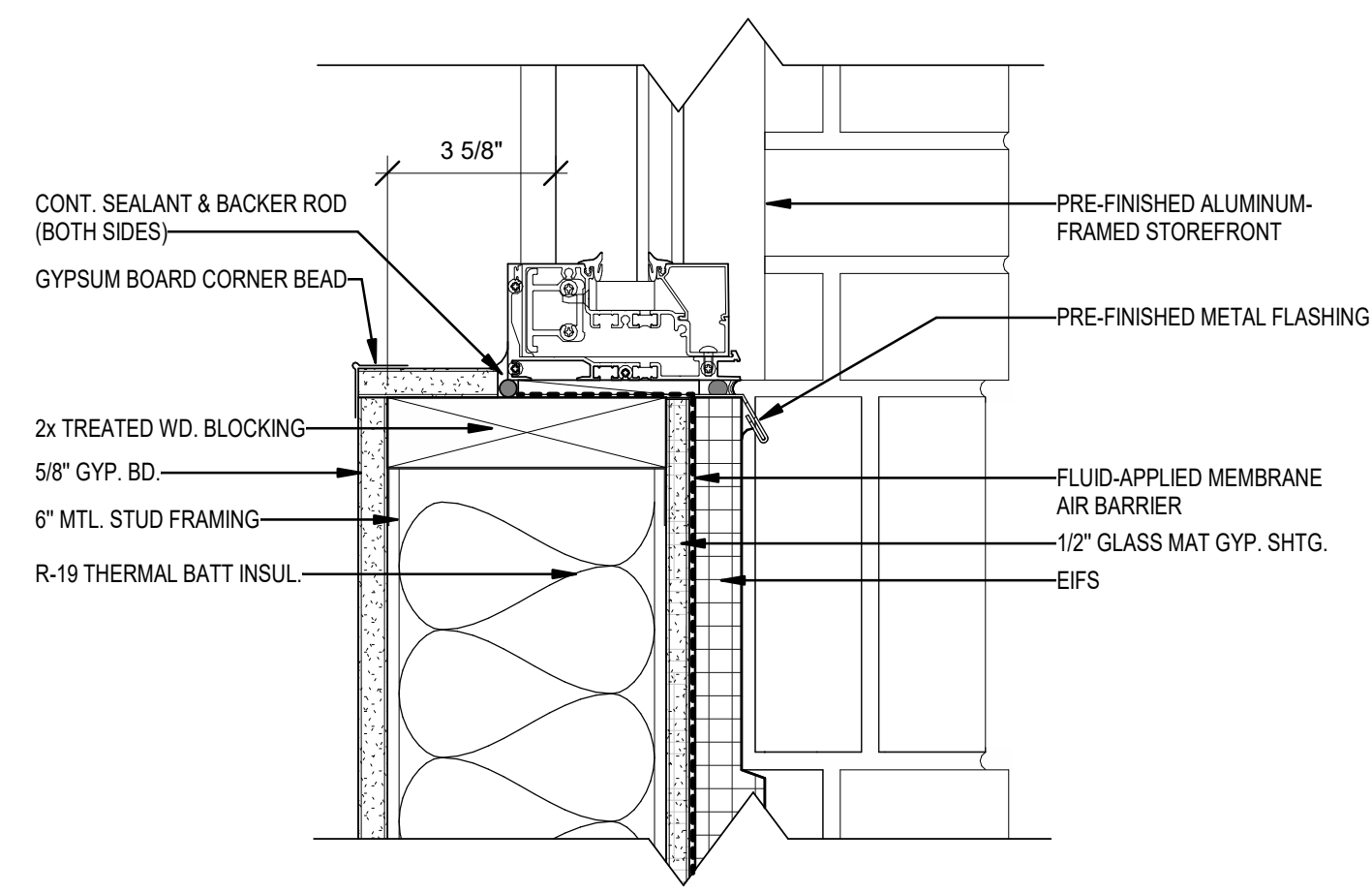
C7 SUNSHADE BRACKET



A1 WINDOW SILL DETAIL



A3 SUNSHADE PLAN DETAIL



A5 WINDOW SILL @ EIFS

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CHK'D BY: PJM

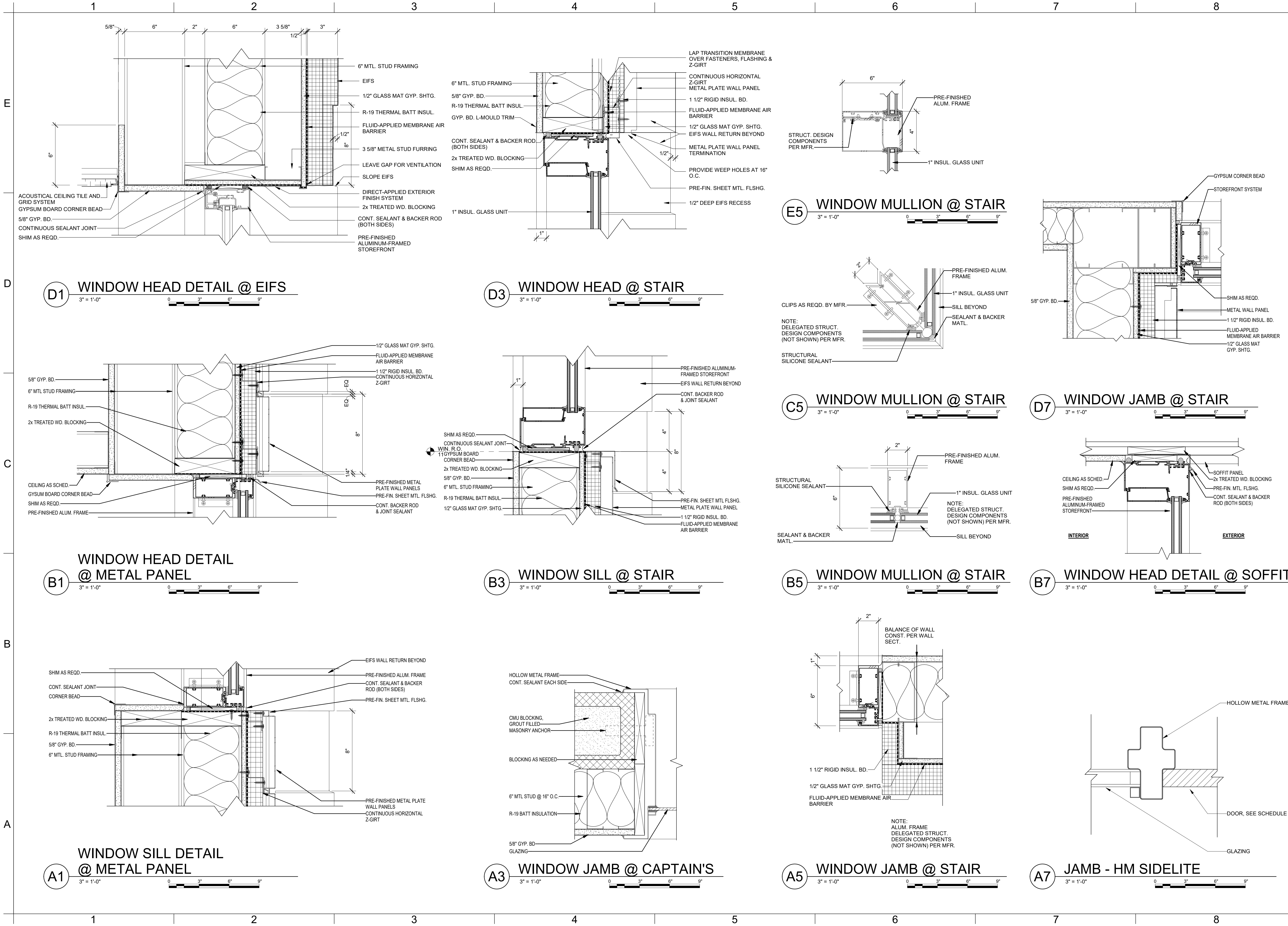
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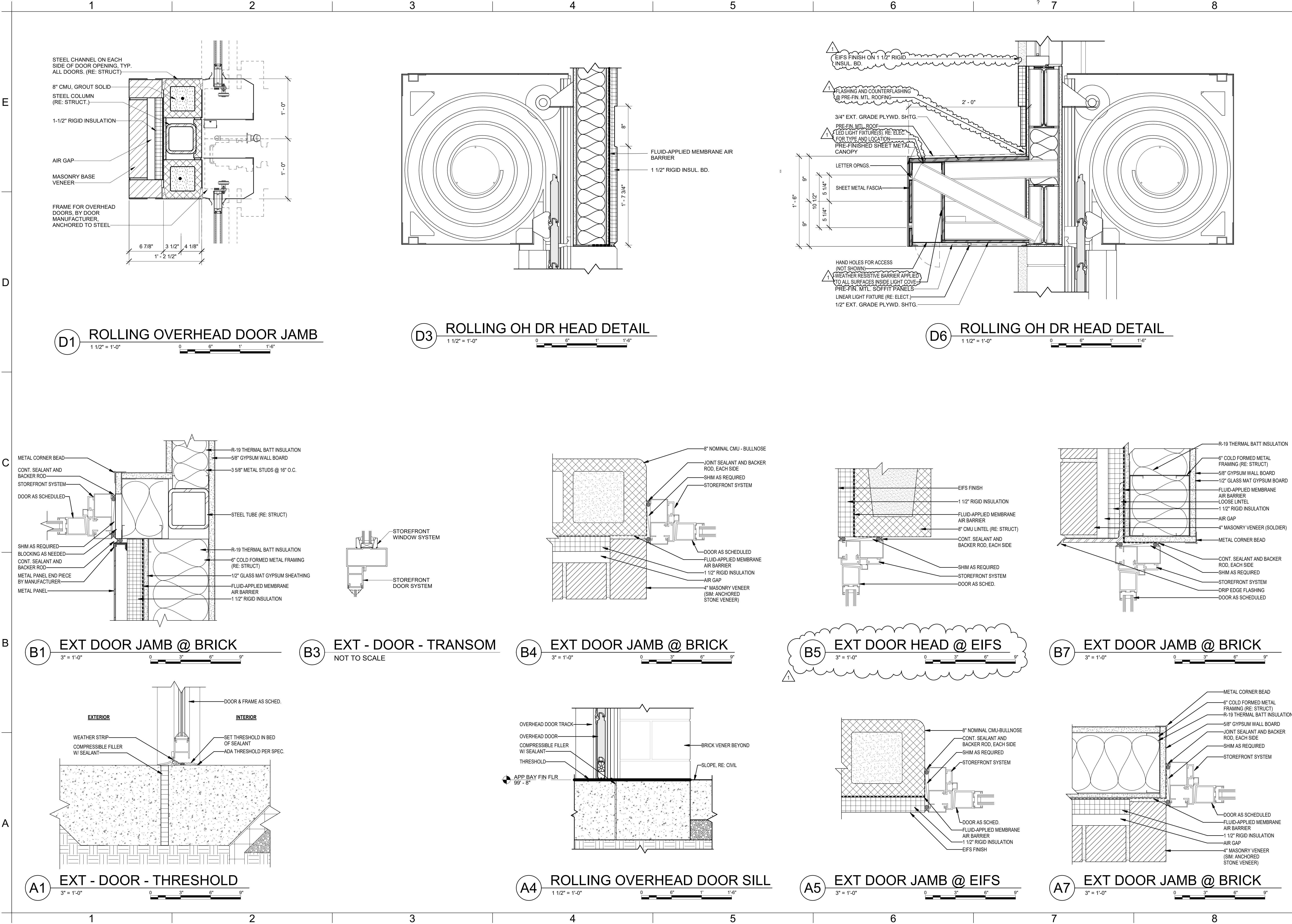
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EXTERIOR DOOR DETAILS

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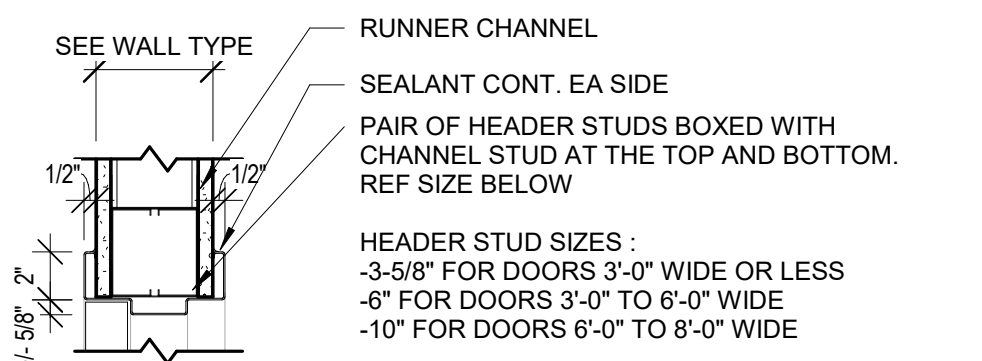
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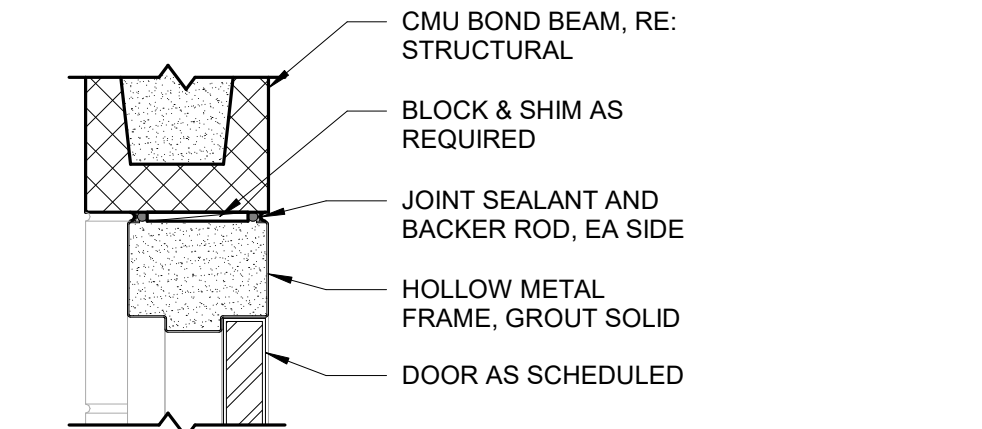
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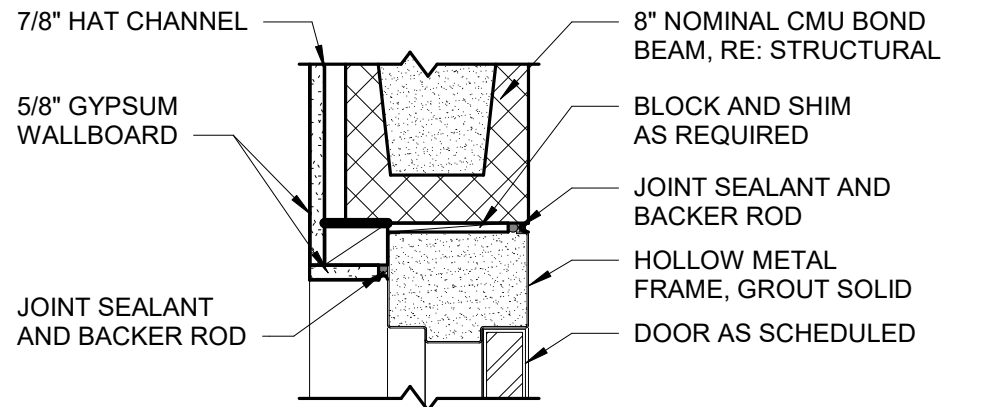
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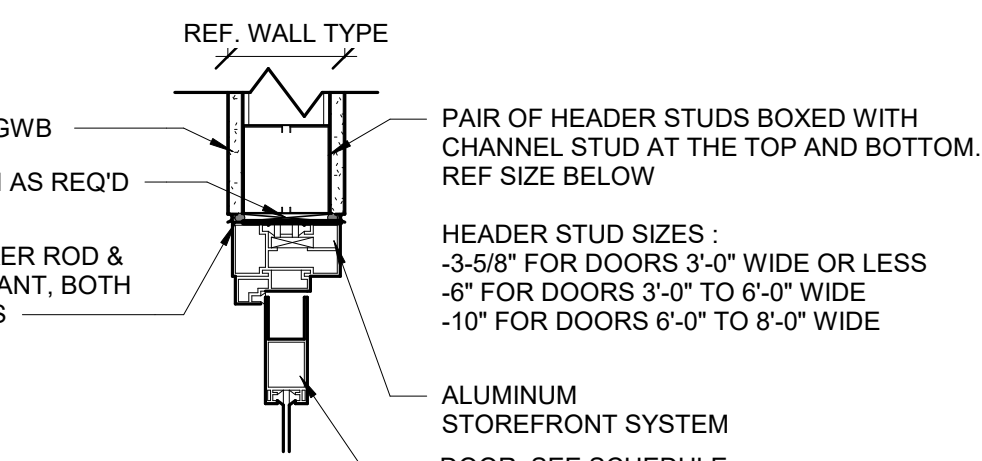
DOOR - HEAD @ INT METAL STUD WALL
1 1/2" = 1'-0"



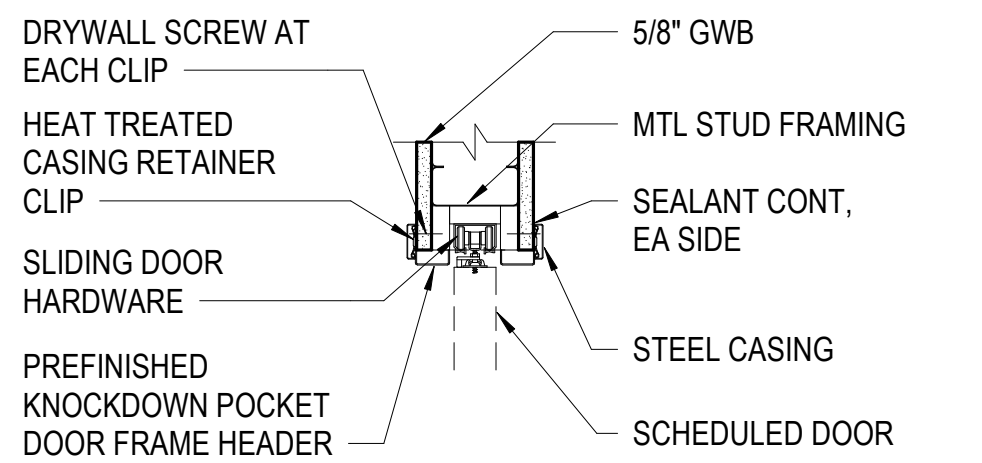
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1 1/2" = 1'-0"



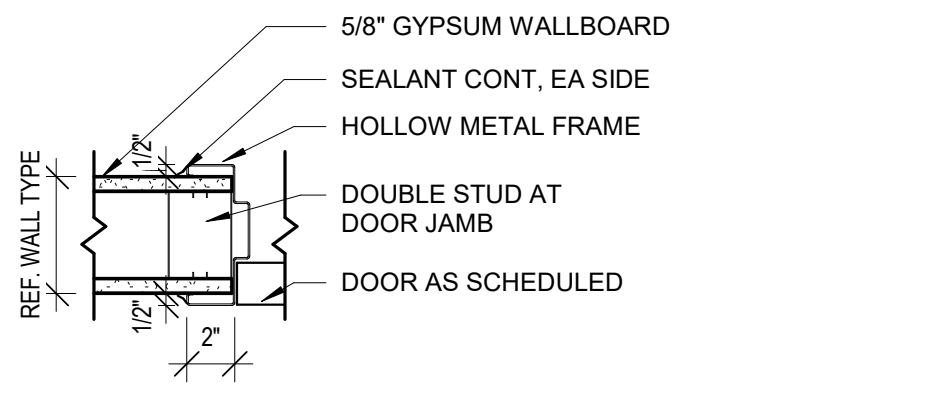
DOOR - HEAD @ INT 8" CMU W/ FURRING 1 SIDE
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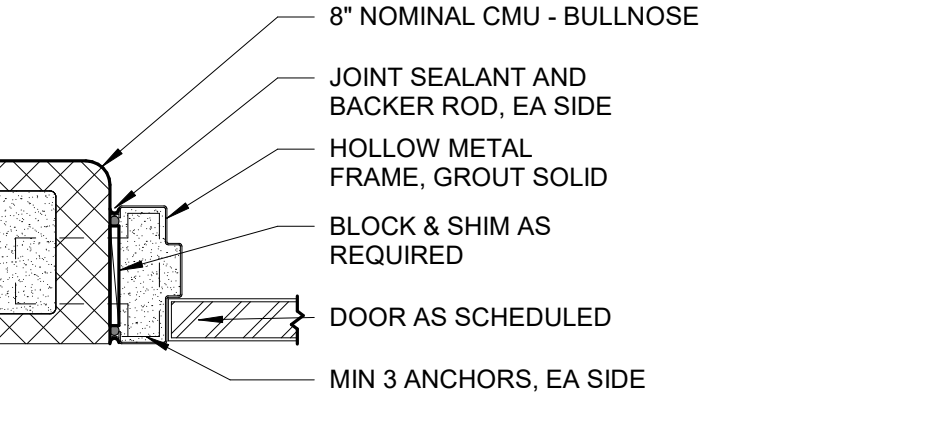
HEAD - STOREFRONT
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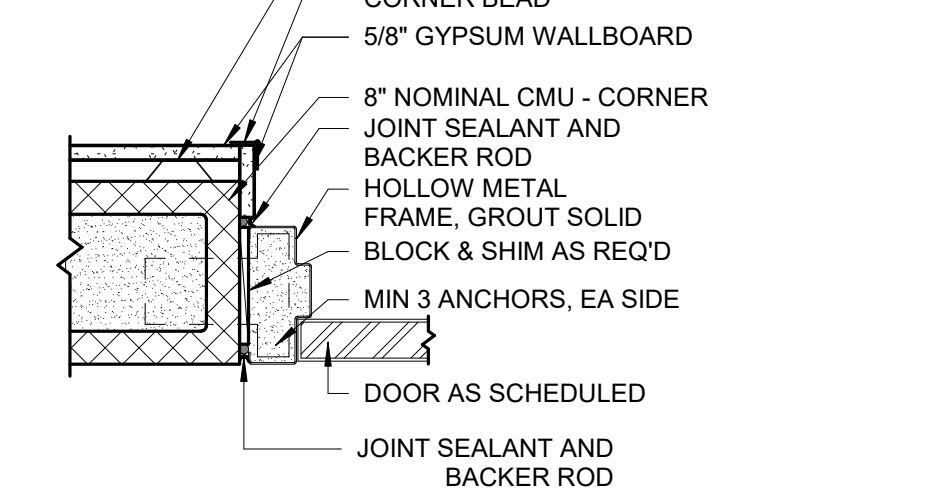
DOOR HEAD DETAIL - POCKET
1 1/2" = 1'-0"



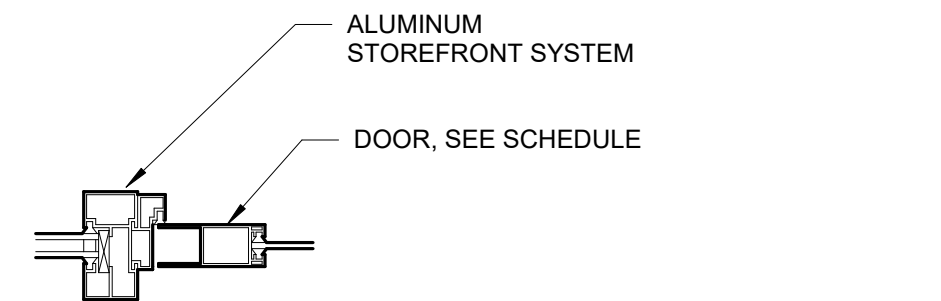
DOOR - JAMB @ INT METAL STUD WALL
1 1/2" = 1'-0"



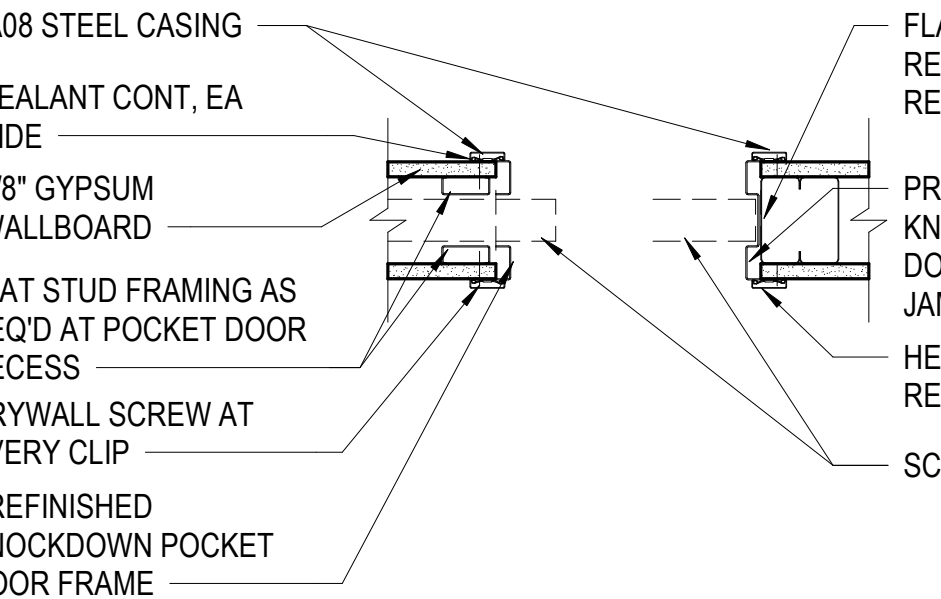
DOOR - JAMB @ INT 8" CMU
1 1/2" = 1'-0"



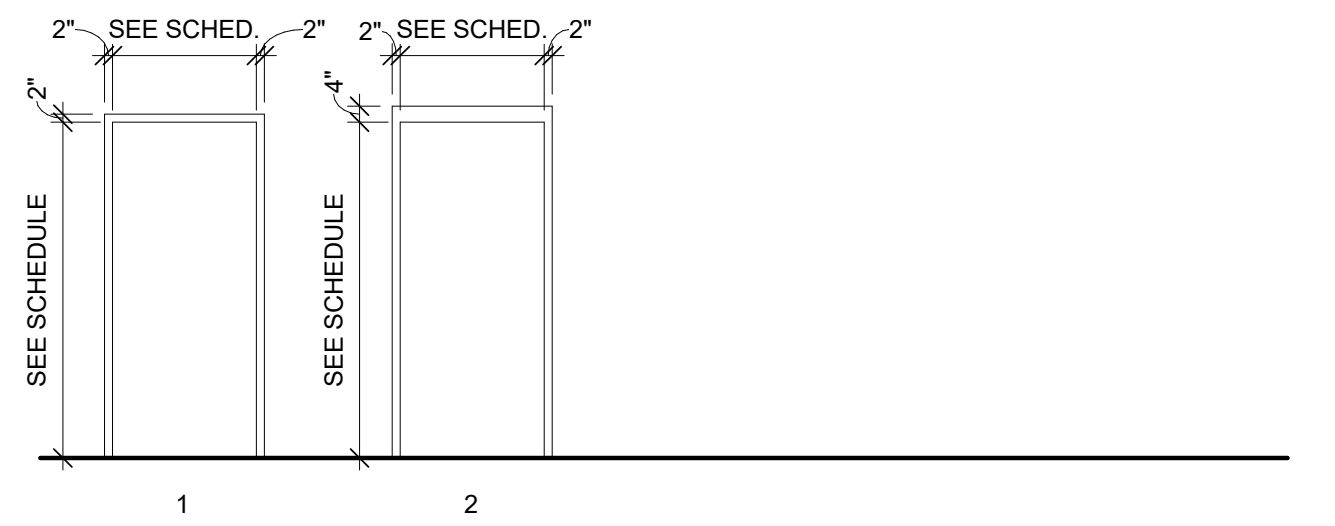
DOOR - JAMB @ INT 8" CMU W/ FURRING 1 SIDE
1 1/2" = 1'-0"



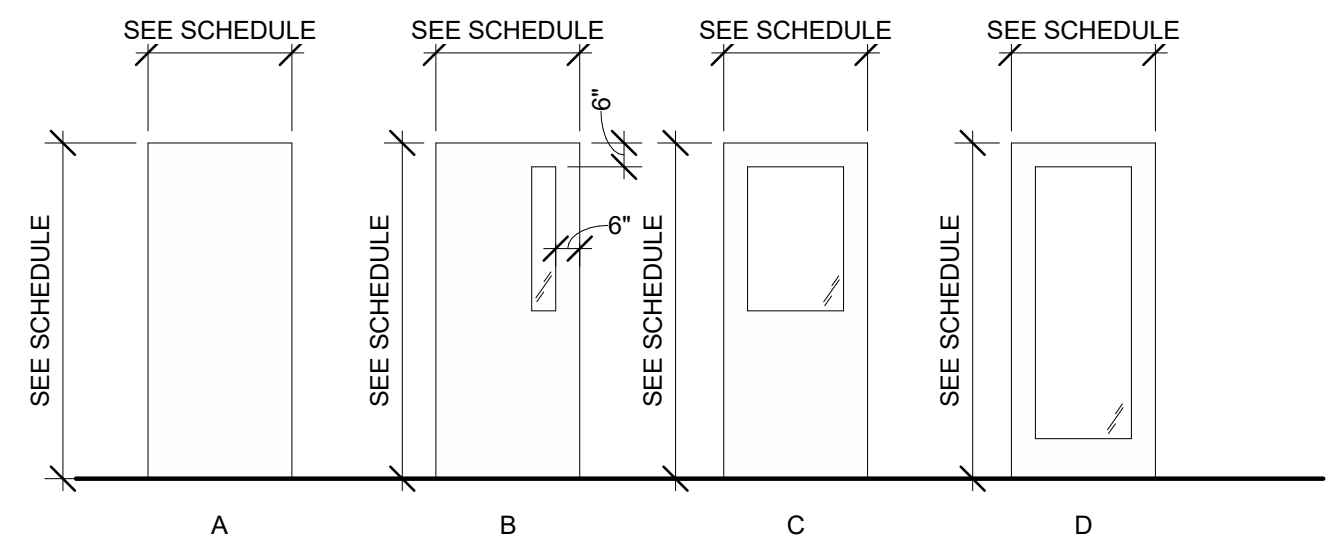
JAMB - STOREFRONT
1 1/2" = 1'-0"



DOOR JAMB DETAIL - POCKET
1 1/2" = 1'-0"



DOOR FRAME LEGEND
1/4" = 1'-0"



DOOR LEGEND
1/4" = 1'-0"

GLAZING LEGEND

- GL-1 1" INSULATED GLAZING UNIT
GL-2 1/4" GLAZING UNITS
GL-3 1-HOUR FIRE-RATED GLAZING
- INSULATED LAMINATED PRE-FINISHED METAL PANEL
- GLAZING MATERIAL (GL)

DOOR HARDWARE NOTES:

- HW-1 - ACCESS CONTROL - CARD READER 1 SIDE, FREE EGRESS OTHER
- HW-2 - PASSAGE - ALWAYS UNLOCKED BOTH WAYS
- HW-3 - PRIVACY - PINHOLE OUTSIDE, PUSH BUTTON LOCK INSIDE TO LOCK OUTSIDE LEVER, RELEASE BY ROTATING INSIDE LEVER, FREE EGRESS FROM INSIDE
- HW-4 - OFFICE - KEY OUTSIDE, PUSH/TURN BUTTON INSIDE TO LOCK AND UNLOCK OUTSIDE LEVER, FREE EGRESS FROM INSIDE
- HW-5 - STORE ROOM - OUTSIDE ALWAYS LOCKED. LATCHBOLT RELEASED W/ KEY OUTSIDE OR ROTATING INSIDE LEVER, FREE EGRESS FROM INSIDE
- HW-6 - CLASSROOM - KEY OUTSIDE TO LOCK OR UNLOCK OUTSIDE LEVER, FREE EGRESS FROM INSIDE
- HW-7 - PULL HARDWARE OUTSIDE. THUMB TURN LOCK FROM INSIDE, FREE EGRESS FROM INSIDE
- HW-8 - STORM SHELTER HARDWARE.

DOOR NOTES

DOOR SCHEDULE LEGEND:

- ALUM ALUMINUM
ANOD ANODIZED
HM HOLLOW METAL
IM INSULATED METAL
PTD PAINTED
SCW SOLID CORE WOOD
STL STEEL
STN STAINED
T TEMPERED GLASS

GENERAL NOTES:

- ALL INTERIOR DOOR GLAZING IS GL-2 (U.N.O.)
- ALL EXTERIOR DOORS ARE TO HAVE INSULATED GLAZING GL-1
- ELEVATIONS VIEWED FROM BUILDING EXTERIOR SIDE (U.N.O.)
- SOLID CORE WOOD DOORS ARE 1 3/4" THICK (U.N.O.)
- EXTERIOR ALUMINUM STOREFRONT DOORS ARE 2" THICK (U.N.O.)
- PROVIDE PANIC HARDWARE IN ACCORDANCE IBC 1010.1.10
- ALL DOORS WITH GLAZING TO HAVE TEMPERED SAFETY GLAZING PER IBC 2406.
- DOOR HARDWARE AND CLOSERS SHALL CONFORM TO ANSI 117.1 & ADA REQUIREMENTS AT ALL DOORS.
- THE OPENING FORCE FOR INTERIOR DOORS SHALL NOT EXCEED A 5-POUND FORCE AND SHALL SWING FULLY OPEN WHEN SUBJECTED TO A 15 POUND FORCE. THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND FORCE. COMPLY WITH IBC 1010.1.3 AND ANSI 117.1.404.2.8.
- FIRE DOORS MUST BE SELF-CLOSING AND LATCHING PER NFPA 80-99
- ENTRANCE DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR DEVICE. MANUALLY OPERATED FLUSH BOLTS, DEAD BOLTS, OR SURFACE BOLTS ARE NOT PERMITTED.
- EXTERIOR HM DOORS SHALL BE INSULATED U.N.O.
- FOR DOOR HARDWARE SET DESCRIPTIONS, SEE SPECIFICATION SECTION 087100 DOOR HARDWARE.

DOOR SCHEDULE

| MARK | ROOM NAME | DOOR | | | | | | FRAME | | | DETAIL | | | HWDNR NOTES | REMARKS |
|------|---------------------|----------|----------|------|----------|--------|---------|-------|----------|--------|----------|--------------------------|----------|-------------|-----------------------------------|
| | | SIZE | | TYPE | MATERIAL | FINISH | GLAZING | TYPE | MATERIAL | FINISH | HEAD | JAMB | SILL | | |
| | | WIDTH | HEIGHT | | | | | | | | | | | | |
| 100A | ENTRY VEST. | 3' - 0" | 7' - 0" | D | ALUM | ANOD | GL-1 | - | ALUM | ANOD | B3/A-613 | B1/A-613 | A1/A-613 | HW-7 | PANIC HARDWARE |
| 100B | ENTRY VEST. | 3' - 0" | 7' - 0" | D | ALUM | ANOD | GL-1 | - | ALUM | ANOD | B1/A-621 | B3/A-621 | A7/A-622 | HW-1 | PANIC HARDWARE |
| 101 | PUBLIC TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | E7/A-622 | HW-3 | |
| 103 | ADMIN. TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | E7/A-622 | HW-3 | |
| 105 | TEL / RADIO | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | A5/A-622 | HW-2 | 45 MIN FIRE RATING |
| 106 | CONF. RM. | 3' - 0" | 7' - 0" | D | SCW | STN | GL-2 | 1 | HM | PTD | E1/A-621 | E3/A-621 | A5/A-622 | HW-4 | |
| 108 | CAPTAIN'S OFFICE | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 & A7/A612 | A5/A-622 | HW-4 | |
| 109A | RAMP | 3' - 0" | 7' - 0" | C | SCW | PTD | GL-3 | 1 | HM | PTD | E1/A-621 | E3/A-621 | - | HW-2 | PANIC HARDWARE |
| 109B | RAMP | 3' - 0" | 7' - 0" | D | ALUM | ANOD | - | - | ALUM | ANOD | B3/A-613 | B4/A-613 | A1/A-613 | HW-1 | PANIC HARDWARE |
| 109C | APPARATUS BAY | 3' - 0" | 7' - 6" | C | HM | PTD | GL-2 | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-1 | |
| 110 | EMS STOR. | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-2 | |
| 111 | PPE / LOCKERS | 3' - 0" | 7' - 6" | A | STL | PTD | - | 1 | STL | PTD | B3/A-622 | A3/A-622 | - | HW-8 | STORM SHELTER - 2 HR. FIRE RATING |
| 112A | DECON | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-2 | |
| 112B | DECON | 3' - 0" | 7' - 6" | A | STL | PTD | - | 1 | STL | PTD | B3/A-622 | A3/A-622 | - | HW-8 | STORM SHELTER- 2 HR. FIRE RATING |
| 113A | DECON TOIL. | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-3 | |
| 113B | DECON TOIL. | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | B3/A-622 | A3/A-622 | - | HW-8 | STORM SHELTER - 2 HR. FIRE RATING |
| 114A | RAMP | 3' - 6" | 7' - 0" | C | SCW | PTD | GL-3 | 1 | HM | PTD | E1/A-621 | E3/A-621 | - | HW-2 | PANIC HARDWARE |
| 114B | RAMP | 3' - 0" | 7' - 6" | D | ALUM | ANOD | GL-1 | 2 | ALUM | ANOD | B3/A-613 | A7/A-613 | A1/A-613 | HW-1 | PANIC HARDWARE |
| 114C | APPARATUS BAY | 3' - 0" | 7' - 6" | C | HM | PTD | GL-2 | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-1 | |
| 115 | JAN. | 3' - 0" | 7' - 0" | A | HM | PTD | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | - | HW-2 | |
| 116A | KITCHEN | 3' - 0" | 7' - 0" | D | ALUM | ANOD | GL-1 | 1 | ALUM | ANOD | B3/A-613 | A7/A-613 | A1/A-613 | HW-1 | PANIC HARDWARE |
| 116B | KITCHEN | 3' - 0" | 7' - 0" | D | ALUM | ANOD | GL-2 | 1 | ALUM | ANOD | B3/A-613 | A7/A-613 & B3/A-621 | A1/A-613 | HW-1 | PANIC HARDWARE |
| 119A | APPARATUS BAY | 14' - 0" | 14' - 0" | | | | | | | | D6/A-613 | D1/A-613 | A4/A-613 | | FOUR FOLD DOOR |
| 119B | APPARATUS BAY | 14' - 0" | 14' - 0" | | | | | | | | D6/A-613 | D1/A-613 | A4/A-613 | | FOUR FOLD DOOR |
| 119C | APPARATUS BAY | 14' - 0" | 14' - 0" | | | | | | | | D6/A-613 | D1/A-613 | A4/A-613 | | FOUR FOLD DOOR |
| 119D | APPARATUS BAY | 3' - 0" | 7' - 0" | D | ALUM | ANOD | GL-1 | 1 | ALUM | ANOD | B3/A-613 | B4/A-613 SIM. & A5/A-613 | A1/A-613 | HW-1 | PANIC HARDWARE |
| 119E | APPARATUS BAY | 3' - 0" | 7' - 0" | D | ALUM | ANOD | GL-1 | 1 | ALUM | ANOD | B3/A-613 | B4/A-613 SIM. & A5/A-613 | A1/A-613 | HW-1 | PANIC HARDWARE |
| 119F | APPARATUS BAY | 14' - 0" | 14' - 0" | | | | | | | | D3/A-613 | D1/A-613 | A4/A-613 | | HIGH SPEED OVERHEAD |
| 119G | APPARATUS BAY | 14' - 0" | 14' - 0" | | | | | | | | D3/A-613 | D1/A-613 | A4/A-613 | | HIGH SPEED OVERHEAD |
| 119H | APPARATUS BAY | 14' - 0" | 14' - 0" | | | | | | | | D3/A-613 | D1/A-613 | A4/A-613 | | HIGH SPEED OVERHEAD |
| 120 | UTILITY | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-2 | |
| 121A | SHOP | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-2 | |
| 121B | SHOP | 3' - 0" | 7' - 6" | A | HM | PTD | - | 1 | HM | PTD | D1/A-621 | D3/A-621 | - | HW-2 | |
| 122A | EXERCISE / WELLNESS | 3' - 0" | 7' - 6" | C | HM | PTD | GL-2 | 1 | HM | PTD | D1/A-621 | D3/A-621 | A5/A-622 | HW-2 | |
| 122B | EXERCISE / WELLNESS | 6' - 0" | 7' - 0" | D | ALUM | ANOD | GL-1 | 2 | ALUM | ANOD | B3/A-613 | B3/A-621 | A1/A-613 | HW-7 | DOOR PAIR |
| 200 | CORRIDOR | 3' - 0" | 7' - 0" | B | SCW | STN | GL-2 | 1 | HM | PTD | E1/A-621 | E3/A-621 | B7/A-622 | HW-2 | PANIC HARDWARE |
| 202 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 202A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 202B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 203 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 203A | CAPTAIN'S BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 203B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 204B | MEZZANINE | 3' - 0" | 7' - 0" | B | SCW | STN | GL-2 | 2 | HM | PTD | E1/A-621 | E3/A-621 | A5/A-622 | HW-2 | |
| 205 | LAUNDRY/JAN. | 3' - 0" | 7' - 0" | A | SCW | STN | - | 2 | HM | PTD | C1/A-621 | C3/A-621 | D7/A-622 | HW-2 | |
| 206 | MECH. | 3' - 0" | 7' - 0" | B | SCW | STN | GL-2 | 2 | HM | PTD | C1/A-621 | C3/A-621 | A5/A-622 | HW-2 | |
| 207 | GENERAL STORAGE | 3' - 0" | 7' - 0" | A | SCW | STN | - | 2 | HM | PTD | C1/A-621 | C3/A-621 | A5/A-622 | HW-2 | |
| 208 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 208A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 208B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 209 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 209A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 209B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 210 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 210A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 210B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 211 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 211A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 211B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 212 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 212A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 212B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |
| 213 | LOCKERS | 3' - 0" | 7' - 0" | A | SCW | STN | - | 1 | HM | PTD | E1/A-621 | E3/A-621 | C7/A-622 | HW-2 | |
| 213A | BUNK | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | - | HW-3 | POCKET DOOR |
| 213B | TOILET | 3' - 0" | 7' - 0" | A | SCW | STN | - | | HM | PTD | A1/A-621 | A3/A-621 | D7/A-622 | HW-3 | POCKET DOOR |



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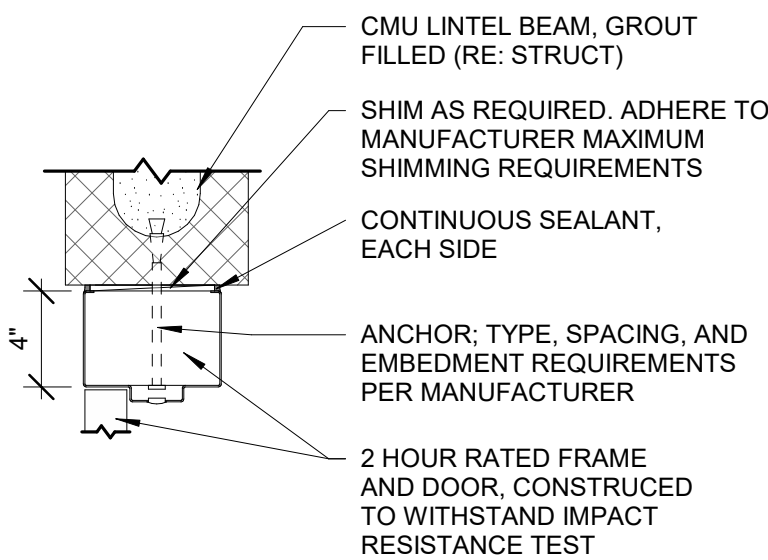
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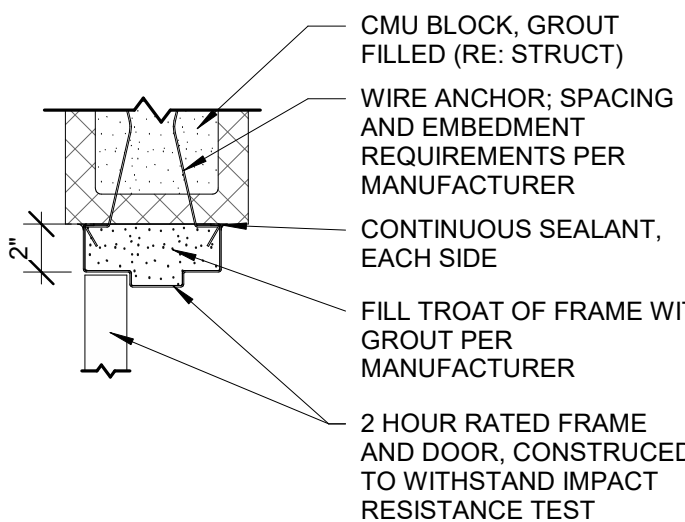
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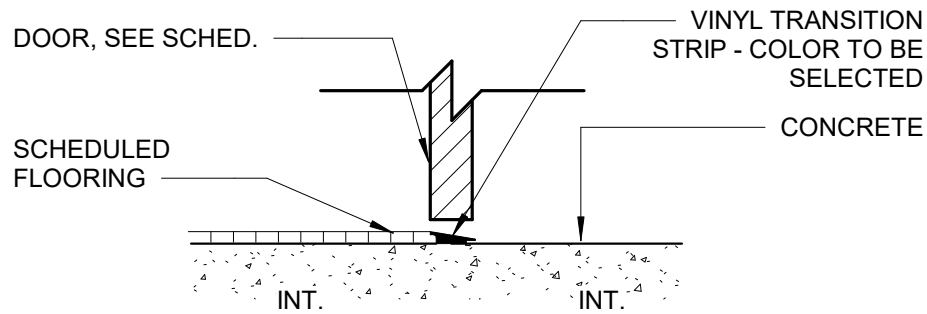
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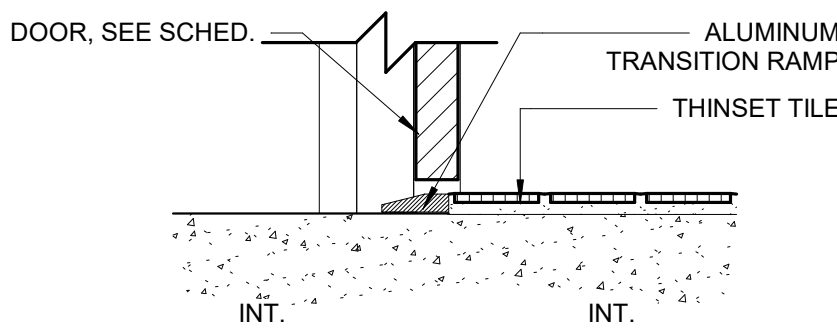
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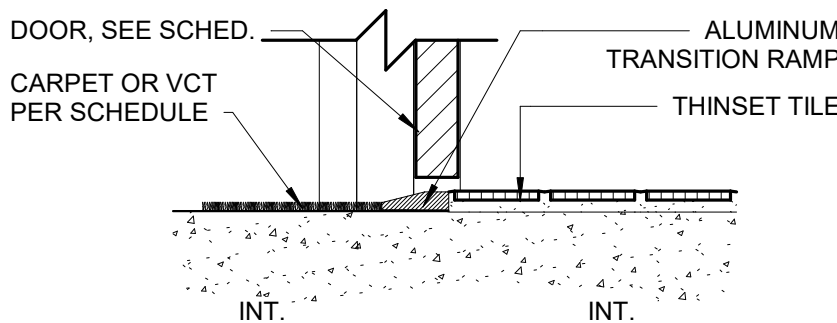
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STORM SHELTER



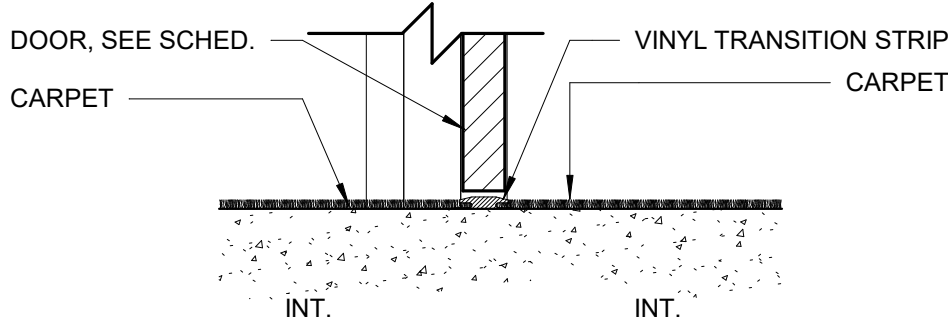
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INT CONC TO CPT, VCT, RF



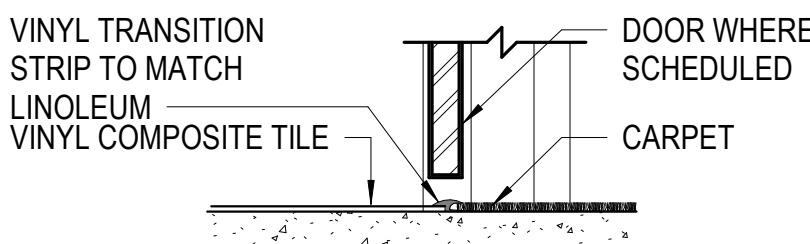
E7 THRESHOLD - CONC TO TILE



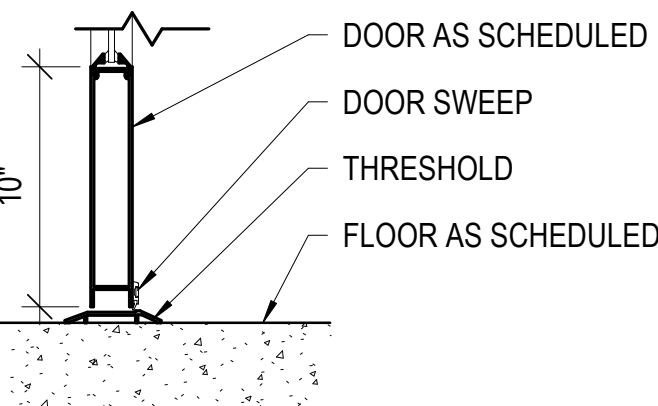
D7 THRESHOLD - CPT, LVT, VCT
TO TILE



C7 THRESHOLD -
CPT TO CPT



B7 THRESHOLD - VCT TO CPT



A7 STOREFRONT - SILL - DOOR



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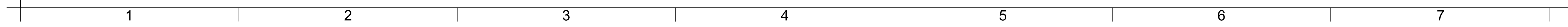
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DOOR DETAILS

A-622

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SHEET NOTES



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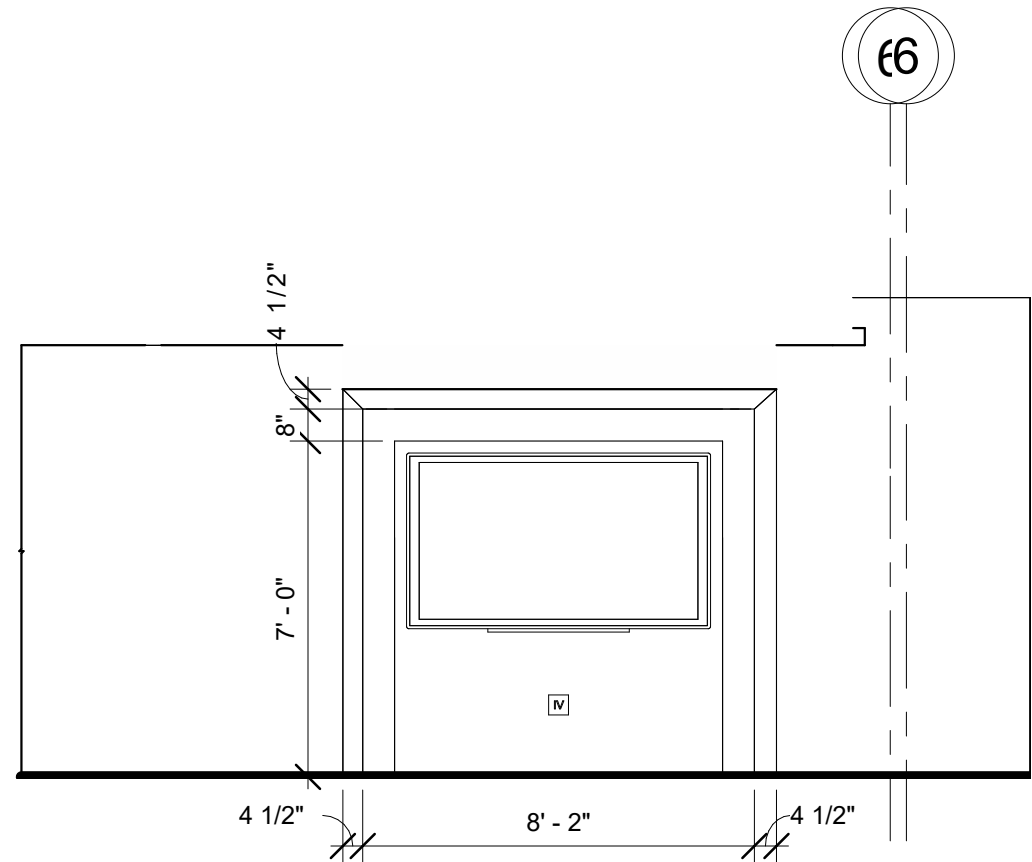
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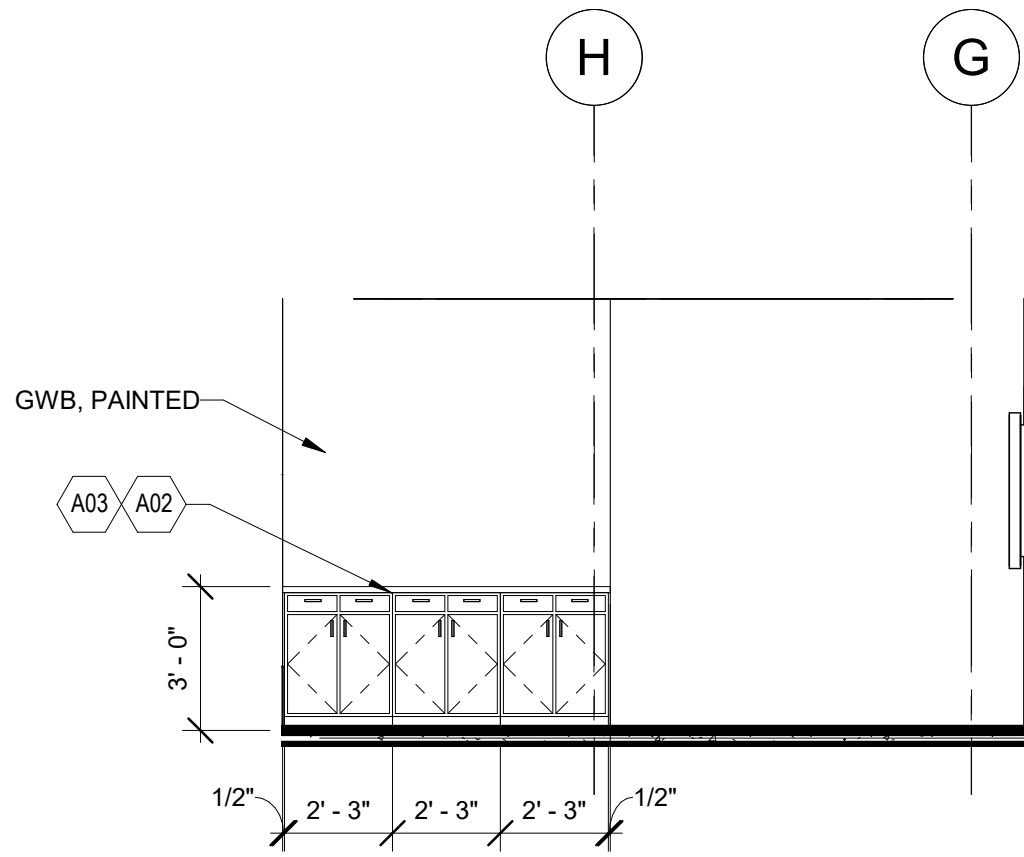
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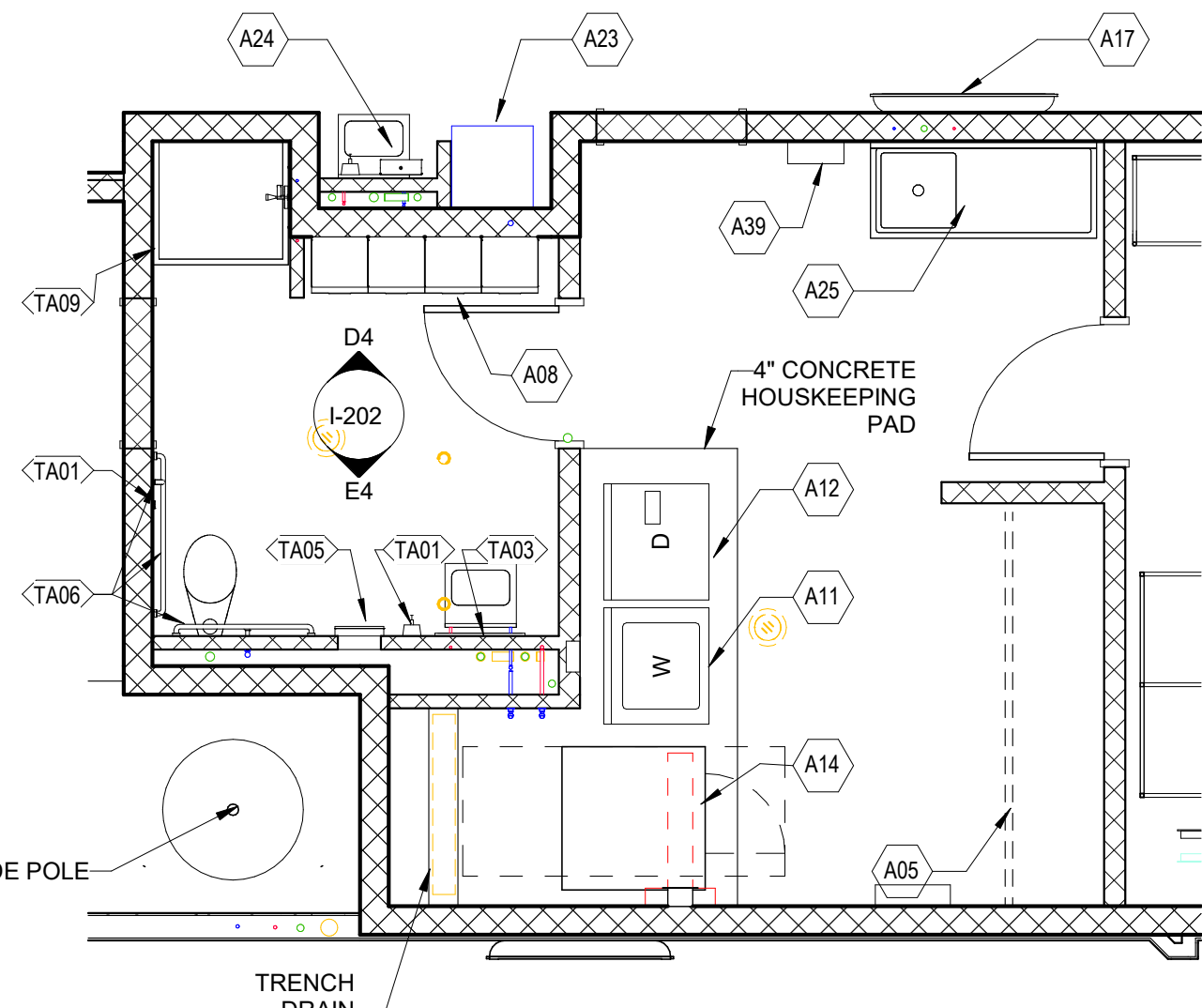
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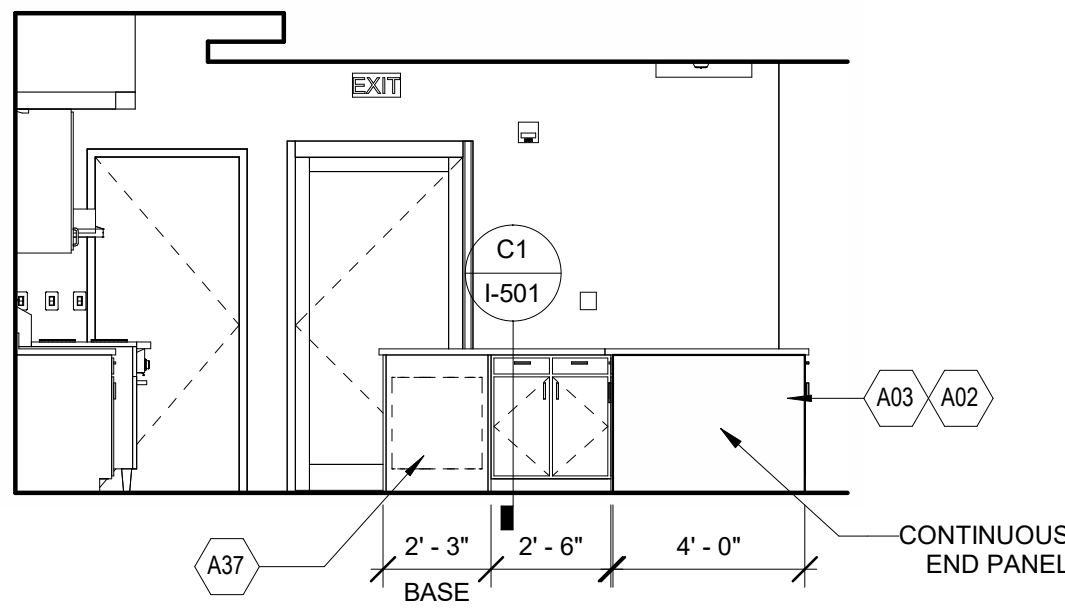
D2 DAY ROOM ELEVATION
1/4" = 1'-0"



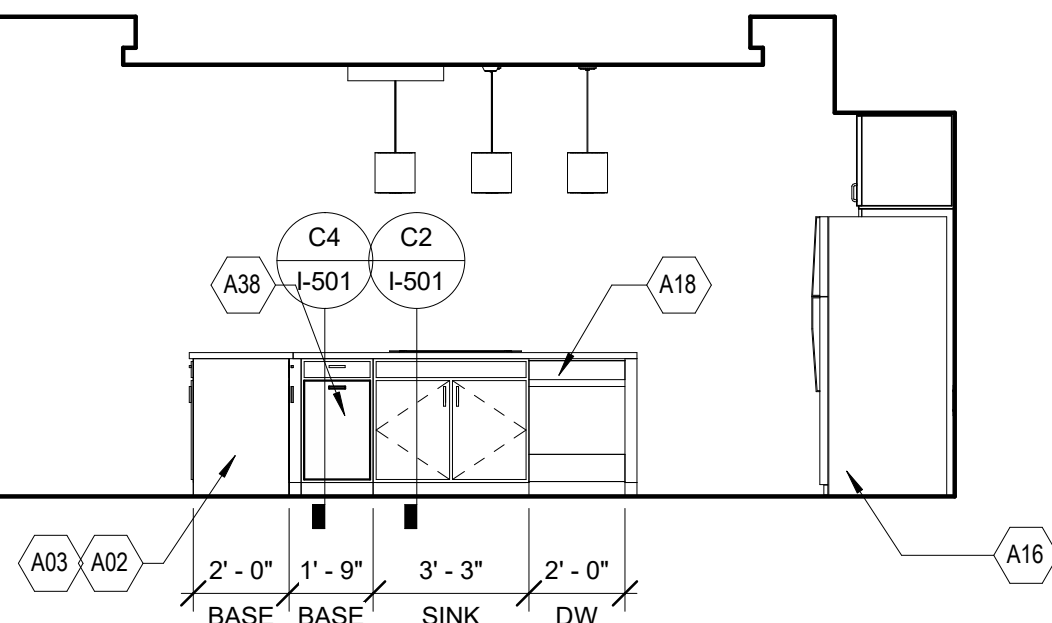
C2 CONF. ROOM EAST ELEVATION
1/4" = 1'-0"



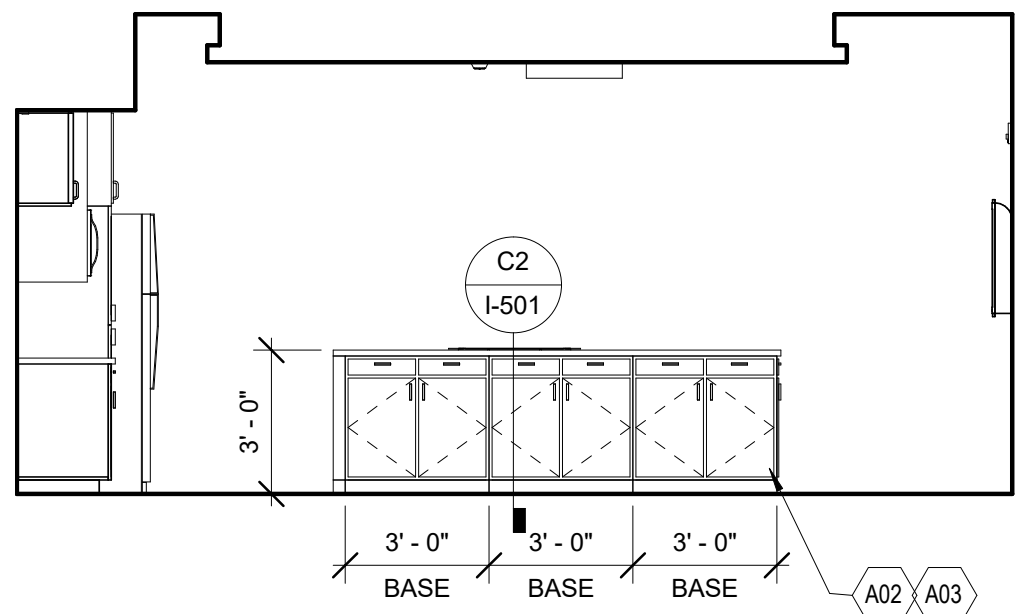
A1 DECON ENLARGED FLOOR PLAN



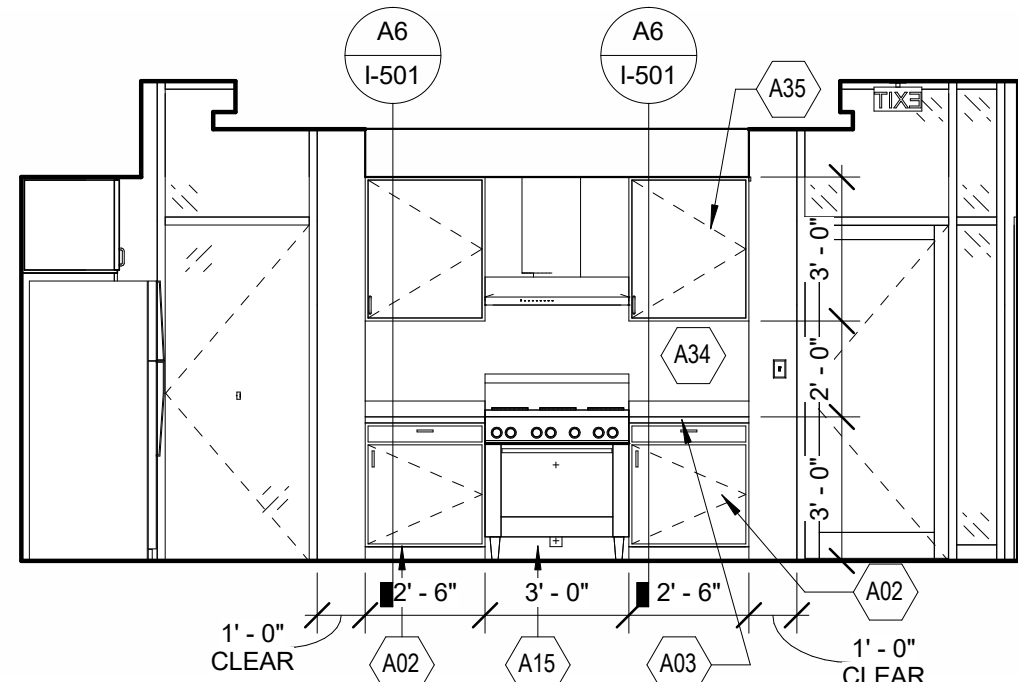
D3 KITCHEN NORTH ELEVATION
1/4" = 1'-0"



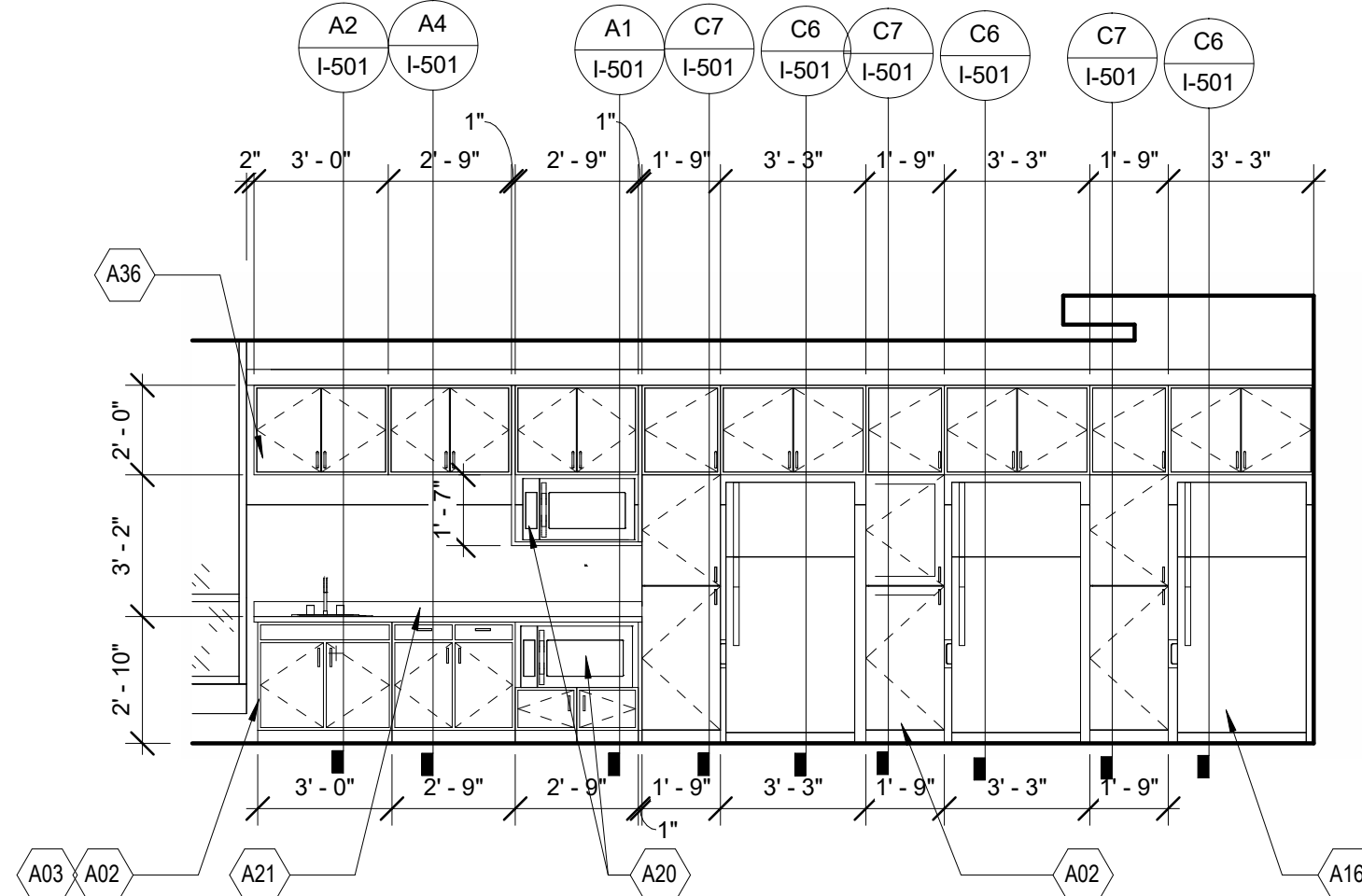
C3 KITCHEN ISLAND EAST ELEVATION
1/4" = 1'-0"



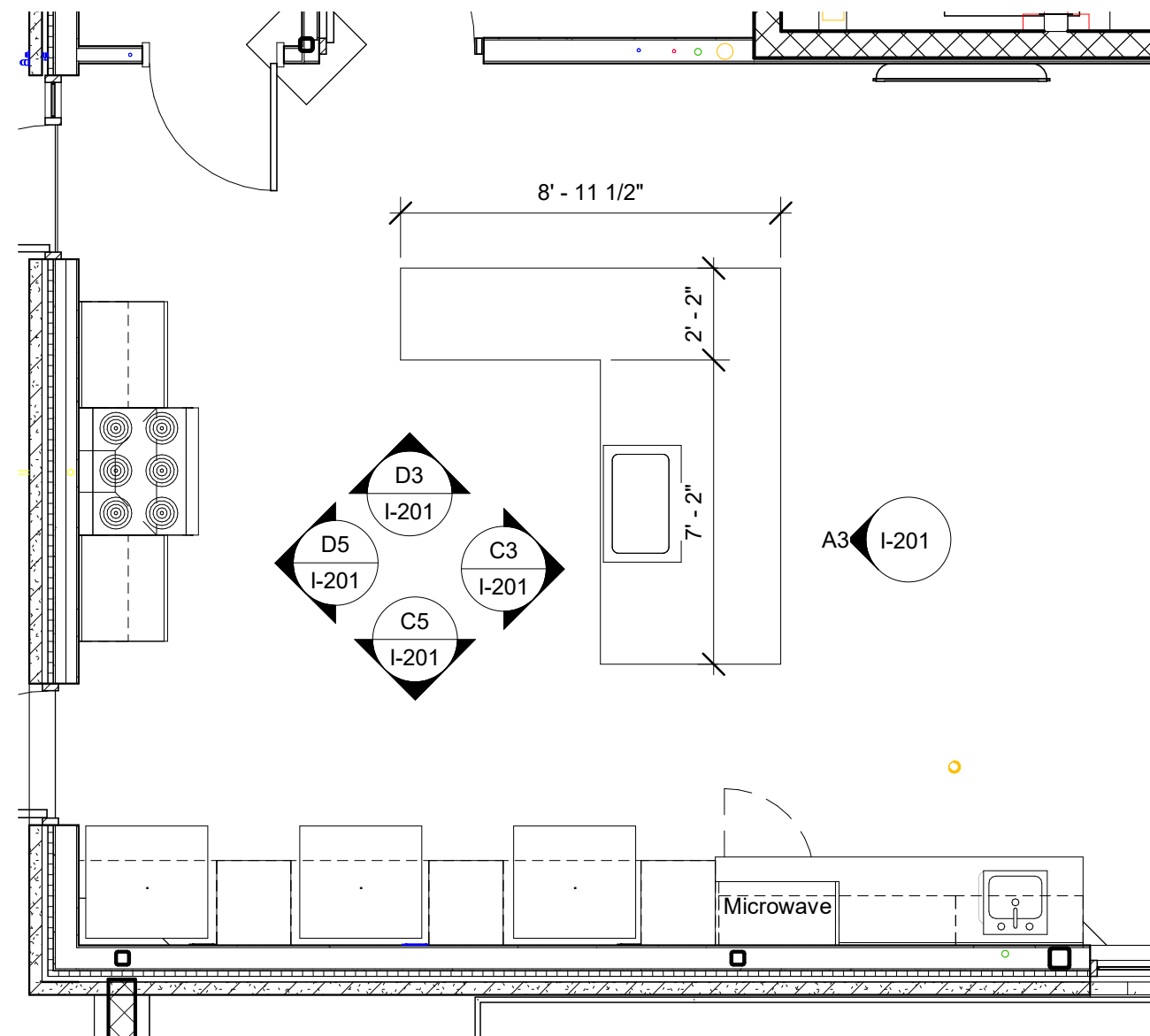
A3 KITCHEN ISLAND WEST ELEVATION
1/4" = 1'-0"



D5 KITCHEN WEST ELEVATION
1/4" = 1'-0"



C5 KITCHEN SOUTH ELEVATION
1/4" = 1'-0"



A5 KITCHEN ENLARGED PLAN
1/4" = 1'-0"

KEYNOTES

| Note Number | Note Description |
|-------------|---|
| A02 | PLYBOO BASE CABINETS |
| A03 | QUARTZ COUNTERTOP |
| A05 | GEAR DRYER RACK (HEAVY-DUTY HANGING ROD) W/WIRE SHELF ABOVE ROD |
| A08 | 5-TIER METAL PERSONAL LOCKERS |
| A11 | HEAVY-DUTY RESIDENTIAL WASHER, OFCI |
| A12 | HEAVY-DUTY RESIDENTIAL DRYER, OFCI |
| A14 | COMMERCIAL WASHER/EXTRACTOR, BASIS OF DESIGN: HUEBSCH MODEL HYN040FNH, OFCI |
| A15 | 6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION |
| A16 | RESIDENTIAL REFRIGERATOR, OFCI |
| A17 | WALL-MOUNTED TV , OFCI. BLOCKING AND TV BRACKET, CFCI |
| A18 | DISHWASHER-OFCI |
| A20 | MICROWAVE - OFCI |
| A21 | COFFEE MAKER - OFCI |
| A23 | BOOT WASH, SEE PLUMBING |
| A24 | HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING |
| A25 | 2-COMPARTMENT STAINLESS STEEL SINK W/ DRAINBOARDS |
| A34 | STAINLESS STEEL BACKSPLASH |
| A35 | 36" HIGH PLYBOO WALL CABINETS |
| A36 | 24" HIGH PLYBOO WALL CABINETS |
| A37 | BELOW COUNTER TRASH RECEPTACLE, RUBBERMAID BRUTE 20 GALLON - MODEL FG262000, W/ DOLLY - MODEL FG264043BLA, OFCI |
| A38 | PULL-OUT DOUBLE RECYCLING CABINET |
| A39 | FIRST AID KIT |

TOILET ACCESSORIES...

| Note Number | Note Description |
|-------------|---|
| TA01 | TOILET PAPER DISPENSER - CFCI |
| TA02 | SOAP DISPENSER - MOTION ACTIVATED AUTOMATIC - CFCI |
| TA03 | FRAMED MIRROR - CFCI |
| TA04 | FRAMELESS MIRROR - CFCI |
| TA05 | PAPER TOWEL DISPENSER - MOTION ACTIVATED AUTOMATIC AND WASTE RECEPTACLE -CFCI |
| TA06 | GRAB BAR- 42" CFCI |
| TA07 | TOWEL HOOK-CFCI |
| TA08 | FOLD DOWN CHANGING STATION-CFCI |
| TA09 | SHOWER ROD AND CURTAIN-CFCI |
| TA11 | GRAB BAR- 36" CFCI |
| TA12 | GRAB BAR- 18" CFCI |



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**INTERIOR
DESIGN
ELEVATIONS**

I-201

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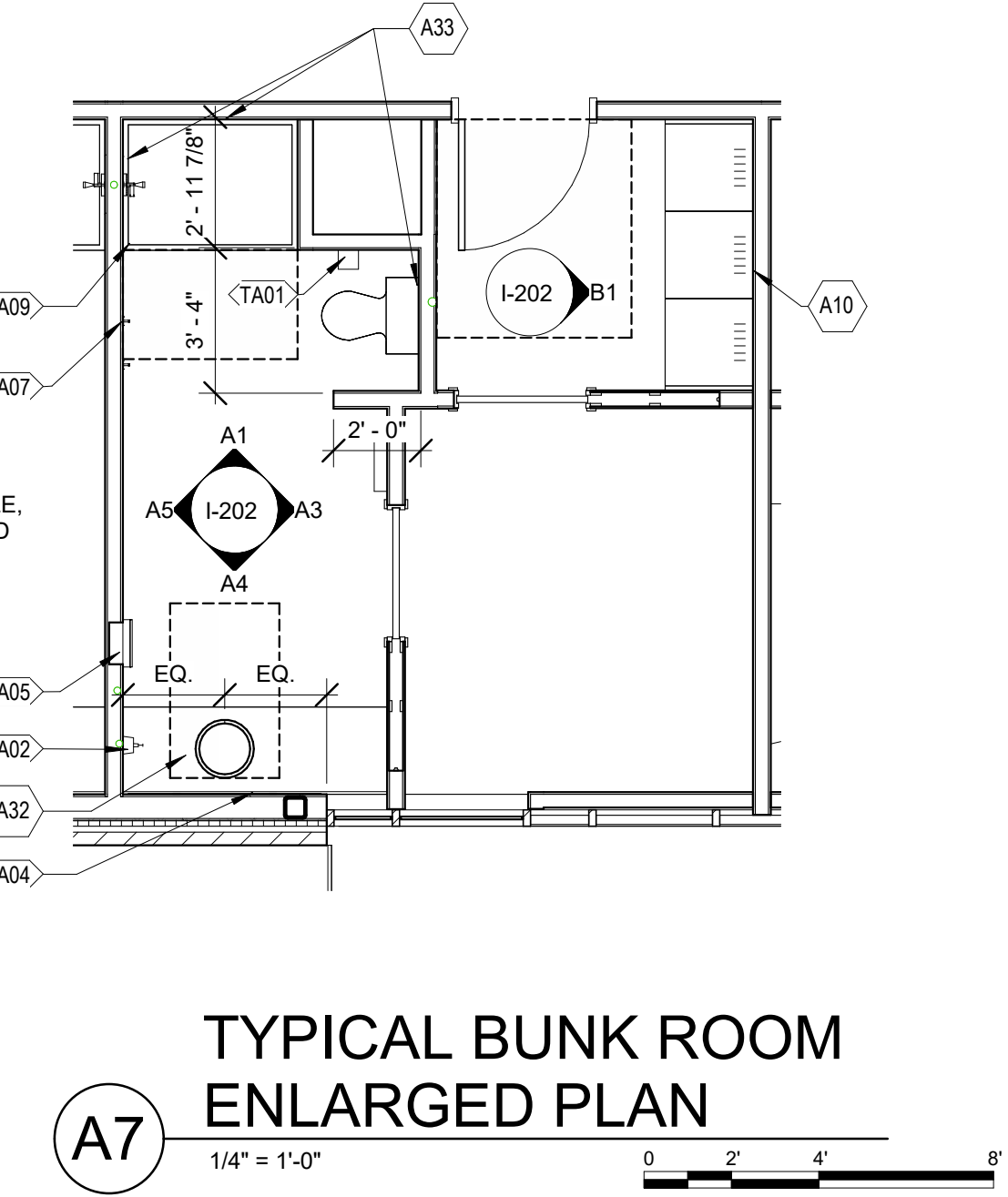
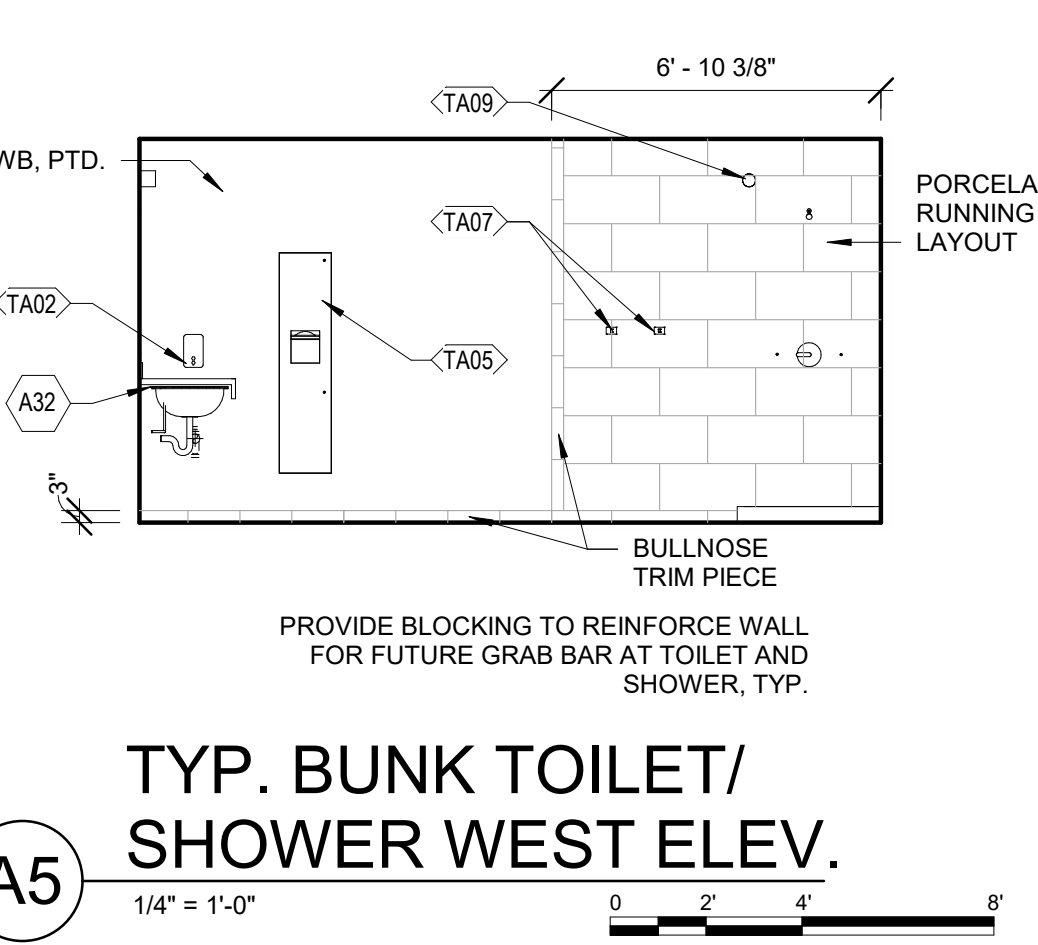
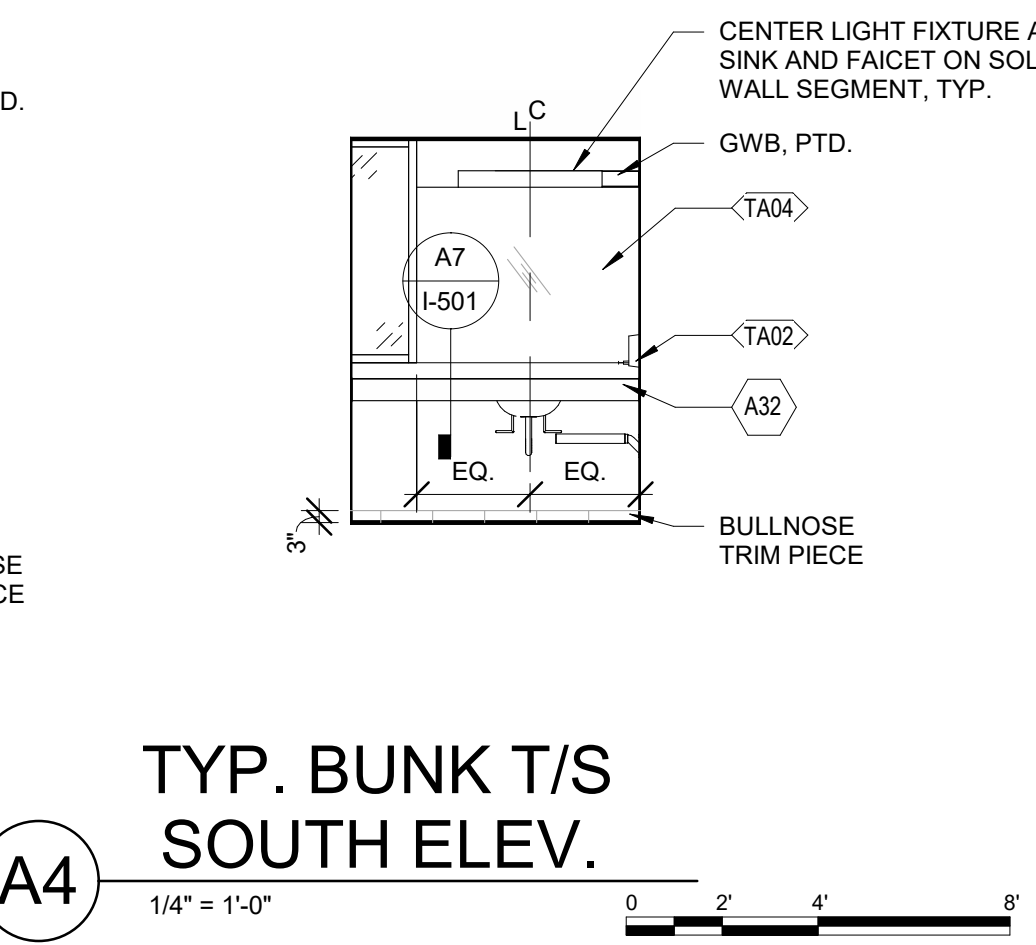
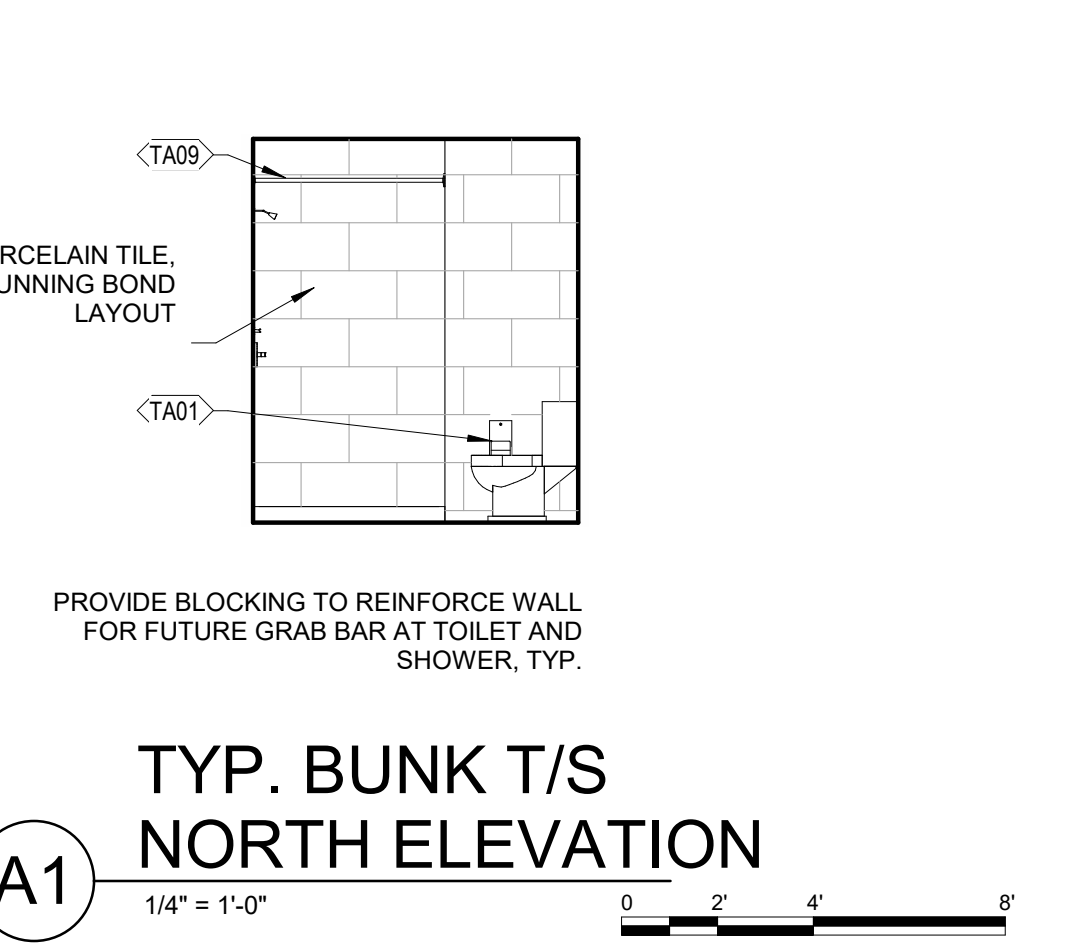
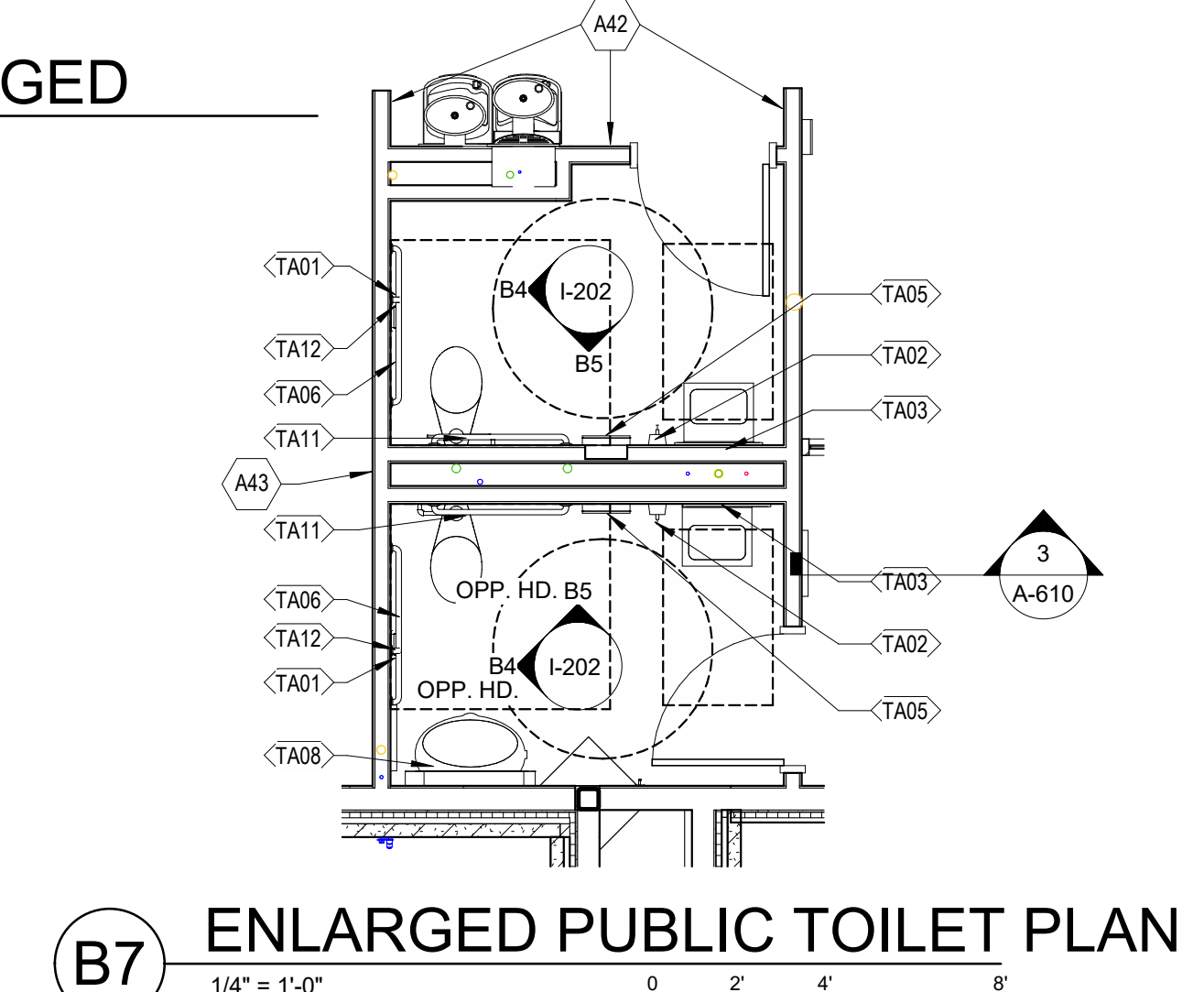
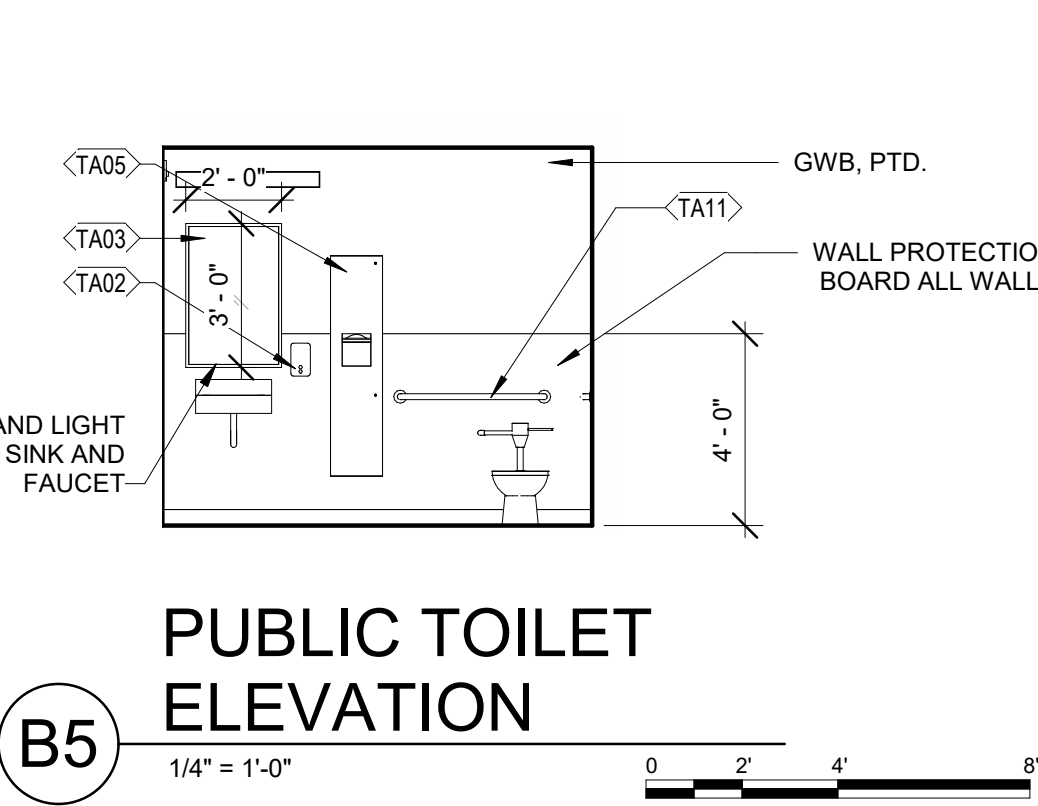
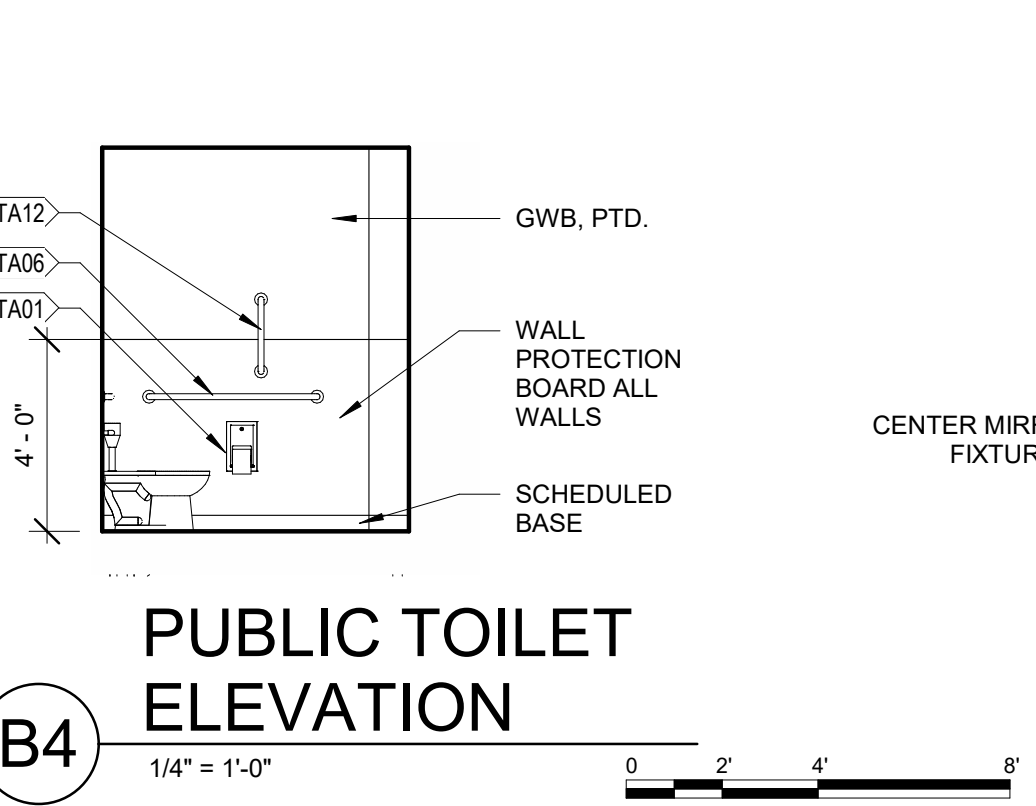
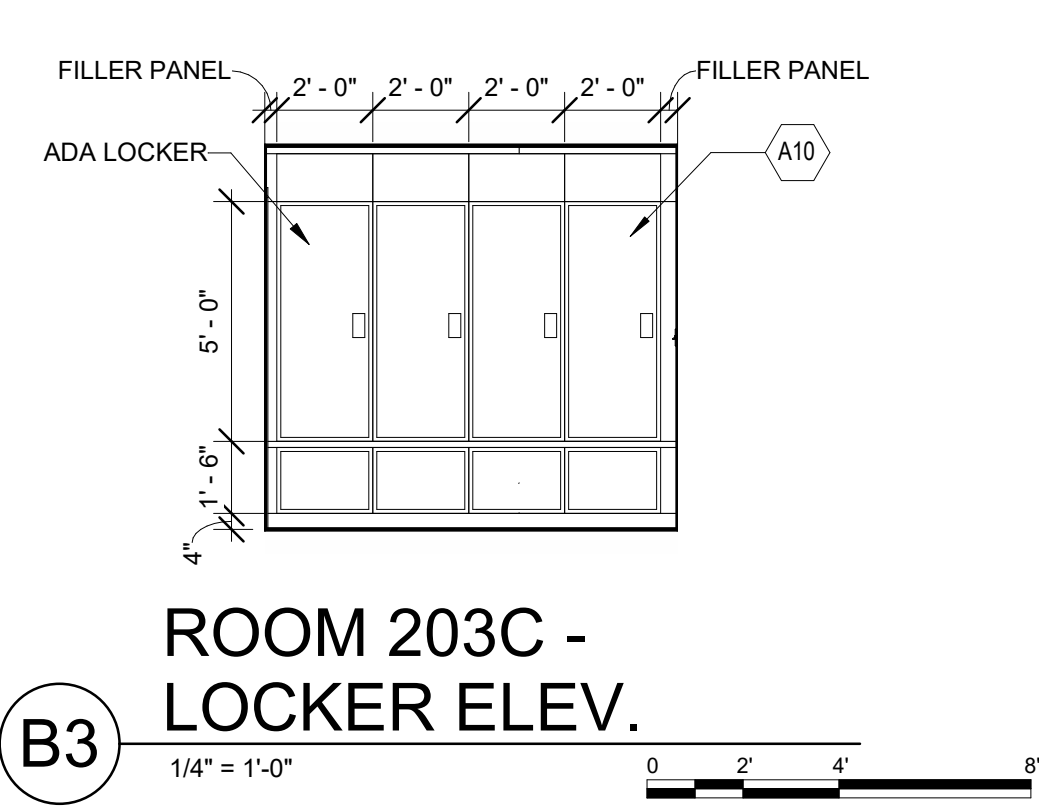
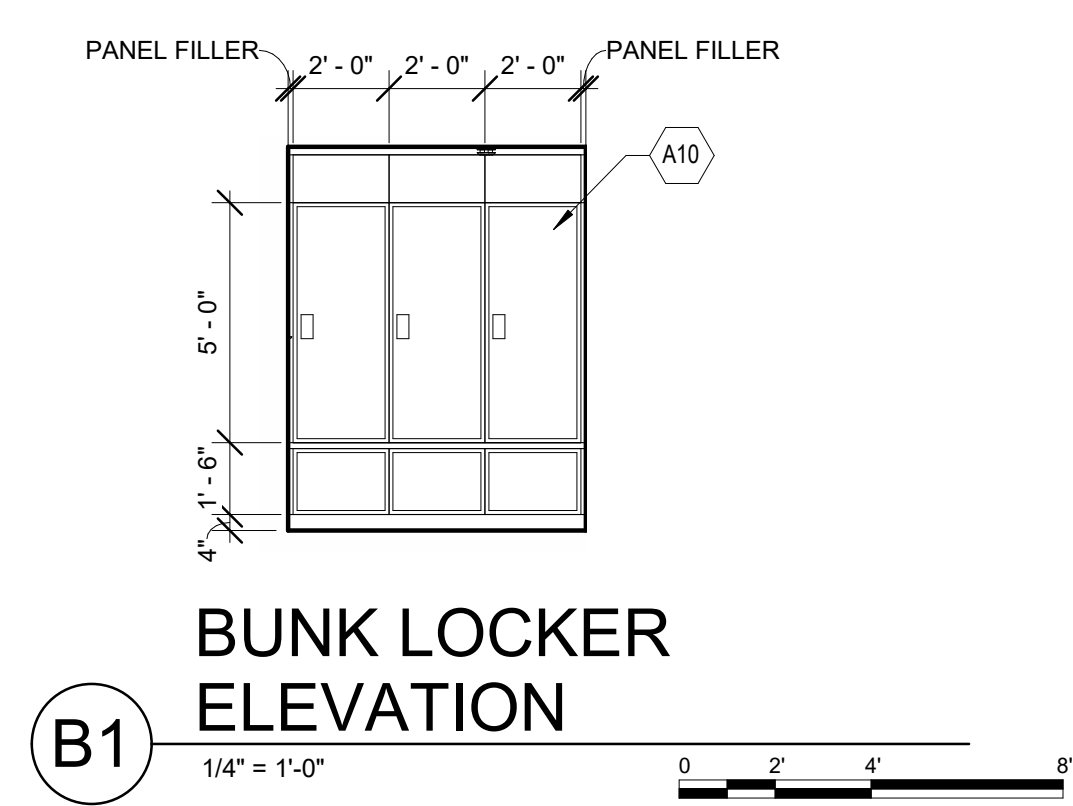
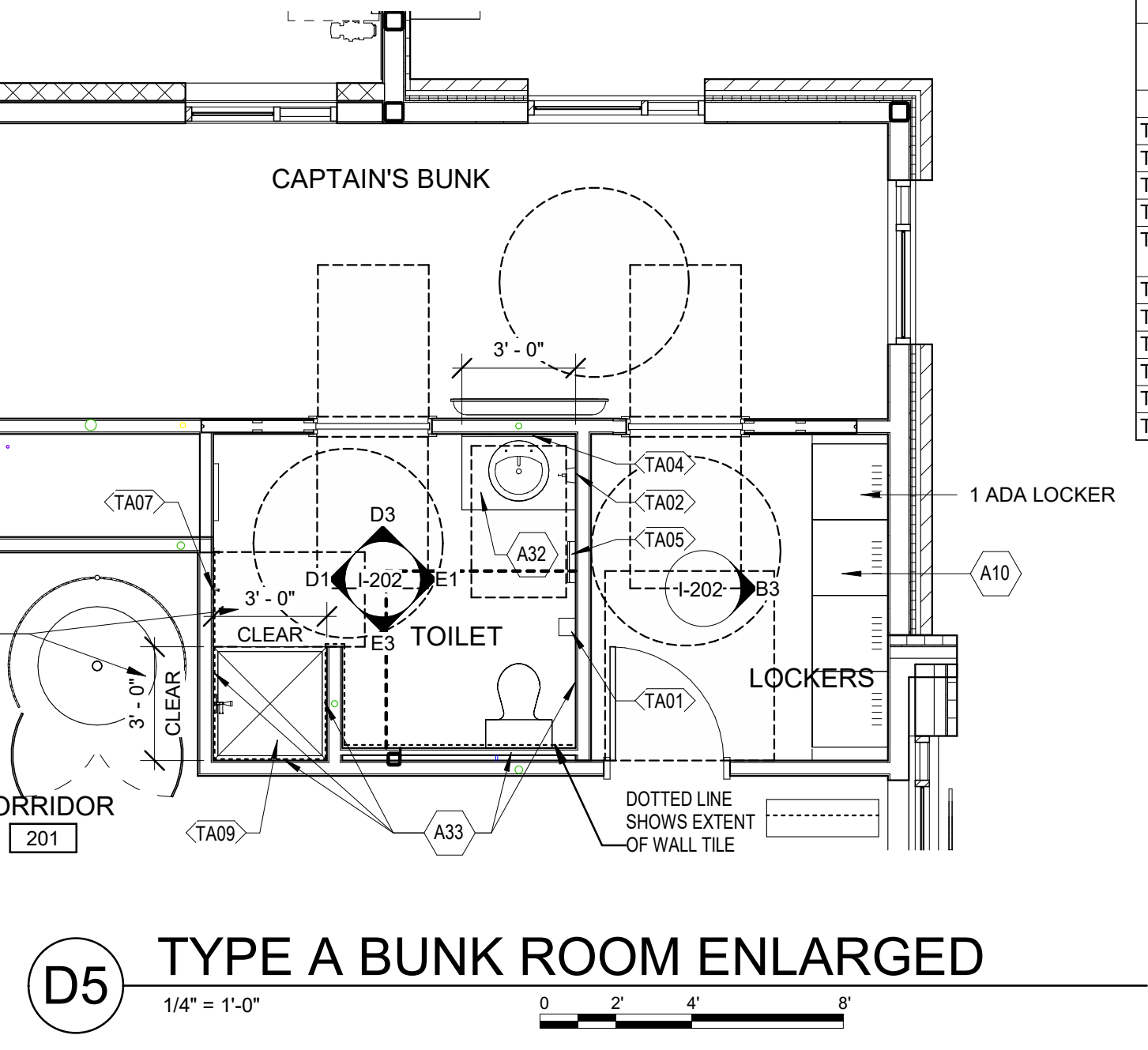
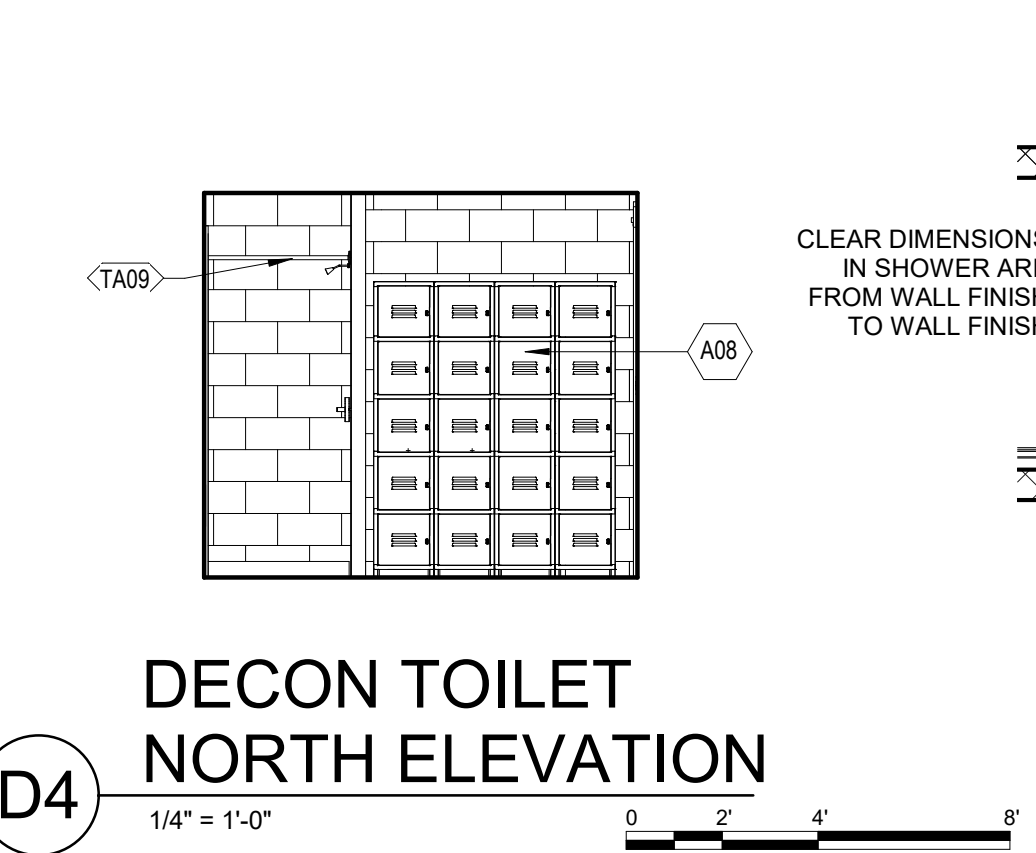
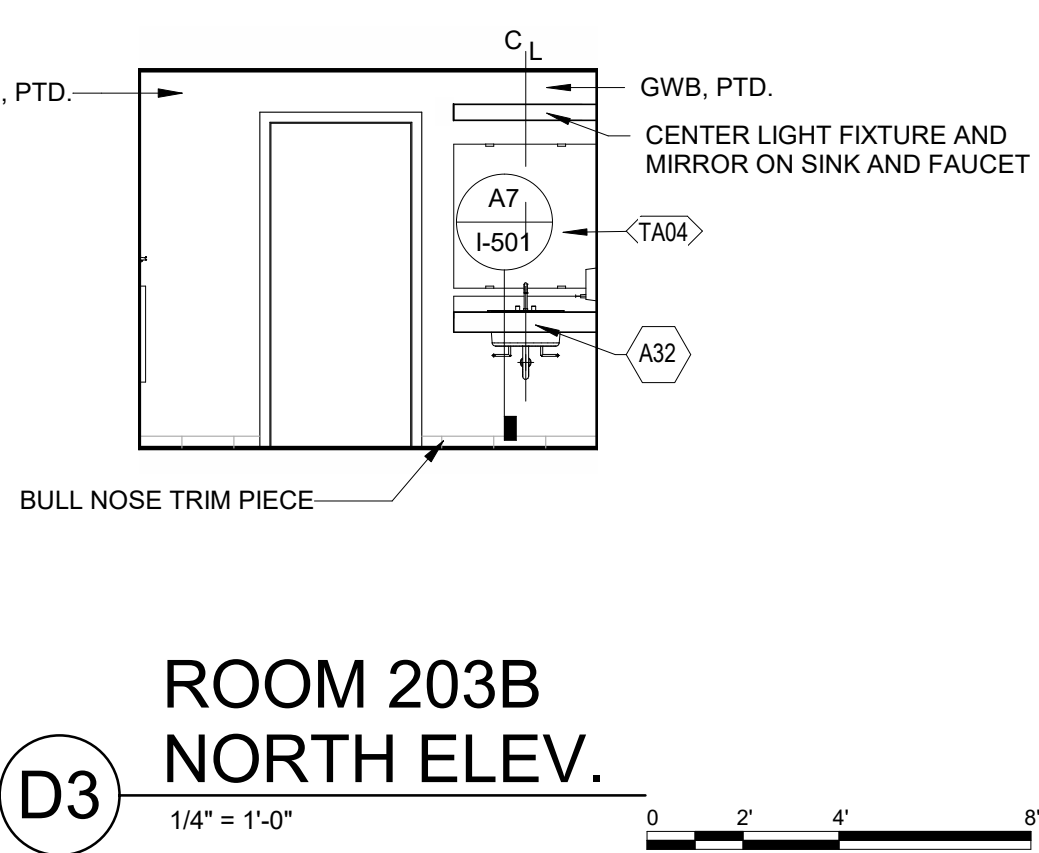
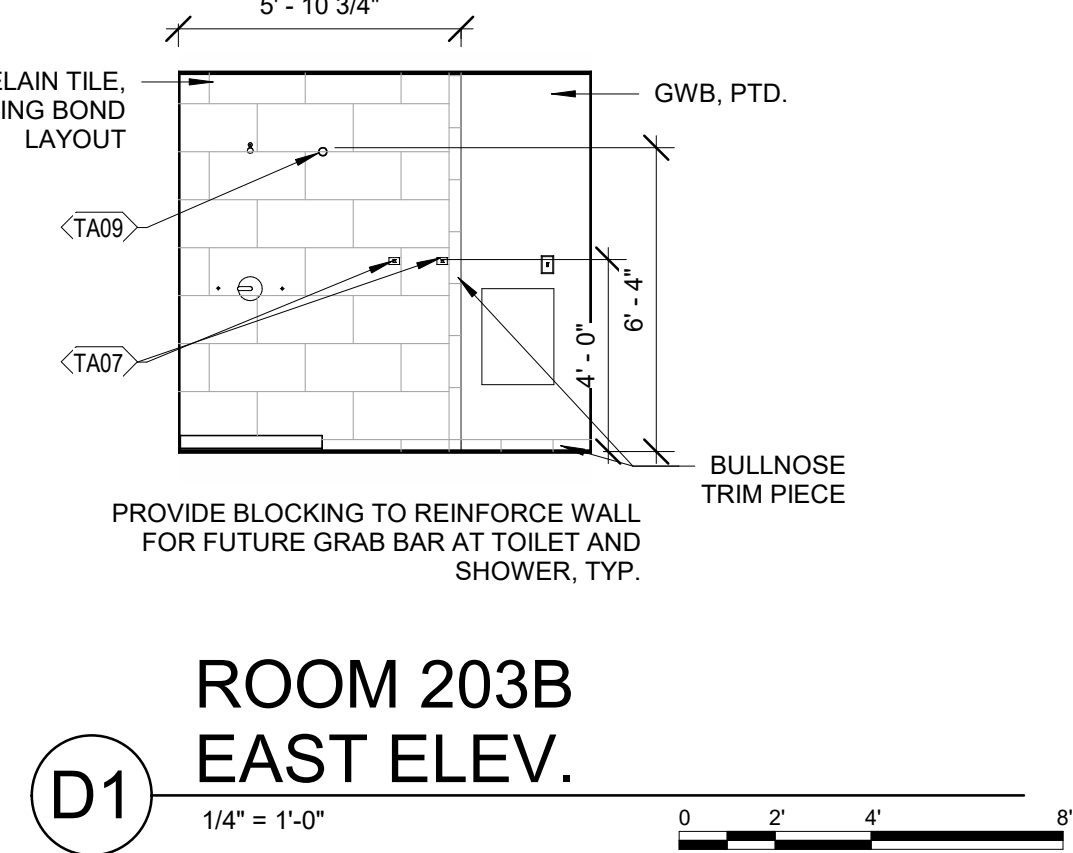
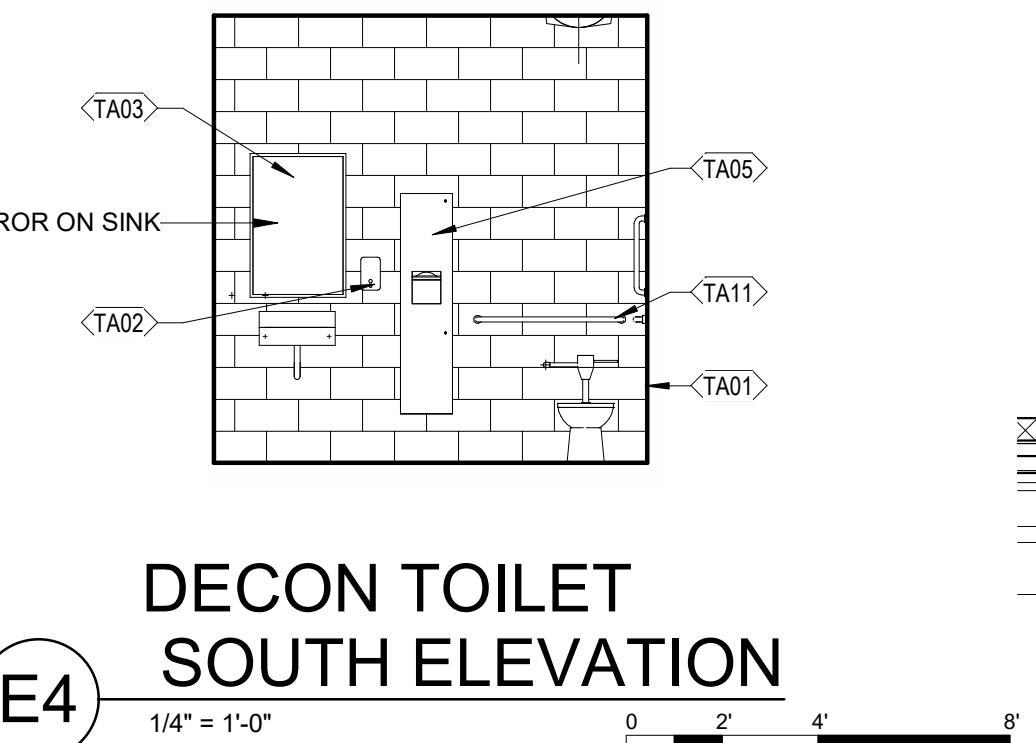
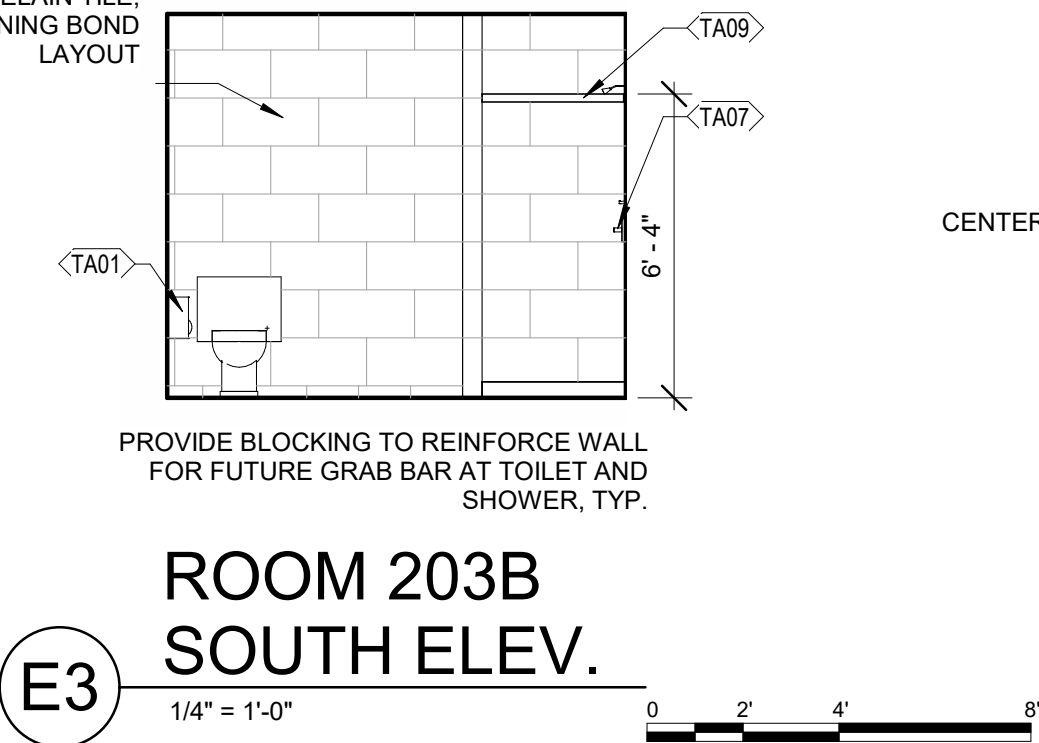
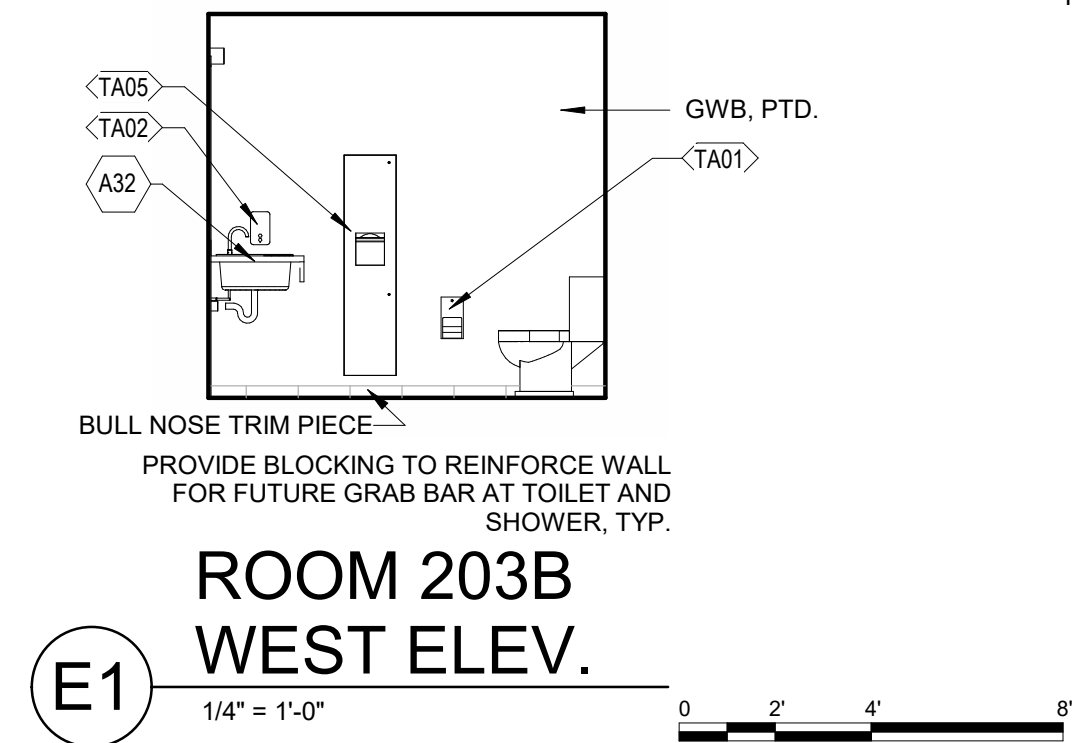
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| KEYNOTES - I-202 | |
|------------------|---|
| Note Number | Note Description |
| A08 | 5 TIER METAL PERSONAL LOCKERS |
| A10 | 24" X 24" DRAWER BASE LOCKER, TYP. ON 4" CONCRETE BASE. SLOPED TOP. |
| A32 | SOLID SURFACE COUNTERTOP W/ INTEGRAL 4" BACKSPLASH AND 5" APRON |
| A33 | REINFORCING IN WALL FOR FUTURE GRAB BARS/FOLDING SHOWER SEAT |

| TOILET ACCESSORIES.. | |
|----------------------|---|
| Note Number | Note Description |
| TA01 | TOILET PAPER DISPENSER - CFCI |
| TA02 | SOAP DISPENSER - MOTION ACTIVATED AUTOMATIC - CFCI |
| TA03 | FRAMED MIRROR - CFCI |
| TA04 | FRAMELESS MIRROR - CFCI |
| TA05 | PAPER TOWEL DISPENSER - MOTION ACTIVATED AUTOMATIC AND WASTE RECEPTACLE -CFCI |
| TA06 | GRAB BAR- 42" CFCI |
| TA07 | TOWEL HOOK-CFCI |
| TA08 | FOLD DOWN CHANGING STATION-CFCI |
| TA09 | SHOWER ROD AND CURTAIN-CFCI |
| TA11 | GRAB BAR- 36" CFCI |
| TA12 | GRAB BAR- 18" CFCI |

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LEE'S SUMMIT, MISSOURI 64082

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| 1 | 11/21/2022 | JSP |
| 2 | 11/21/2022 | PJM |

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DATE: 11.21.2022
DRAWN BY: JSP
CHK'D BY: PJM

STATE OF MISSOURI
PAUL J. MICHELL
NUMBER A-2009021701
11/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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INTERIOR DESIGN ELEVATIONS

I-202

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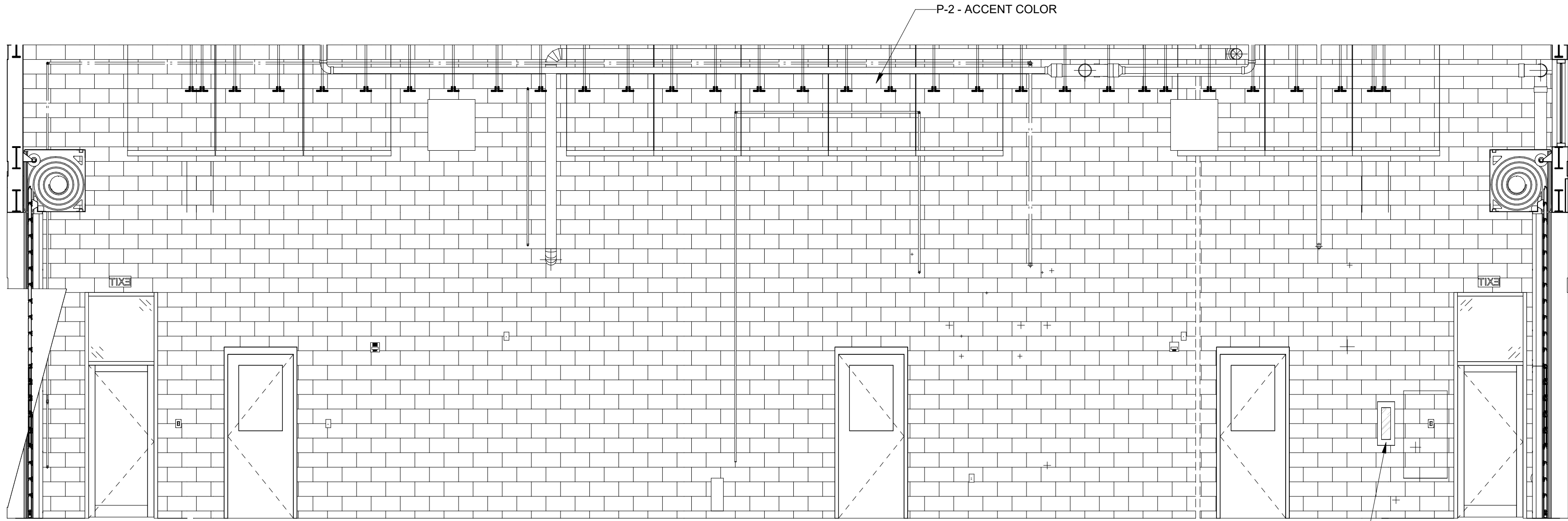
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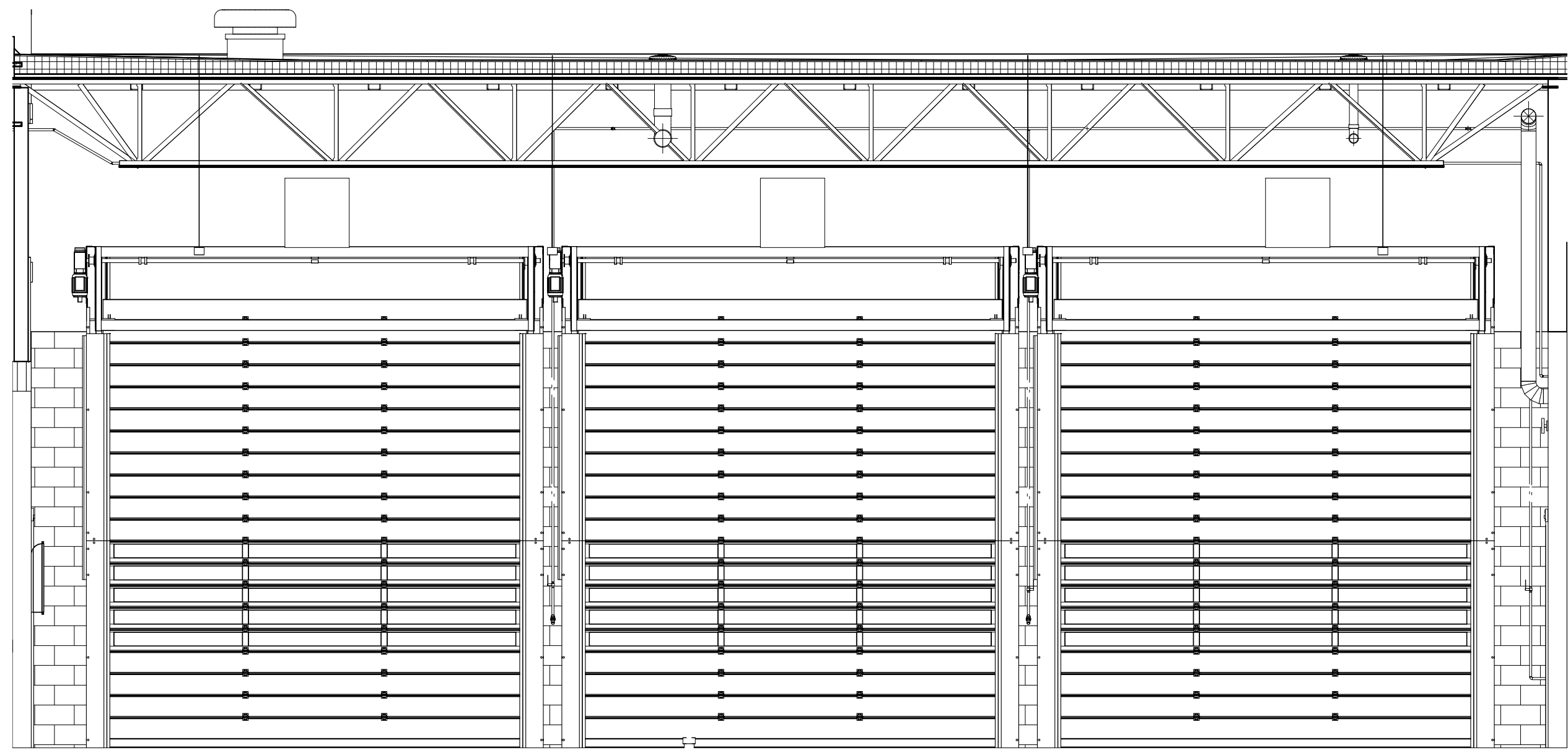


D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

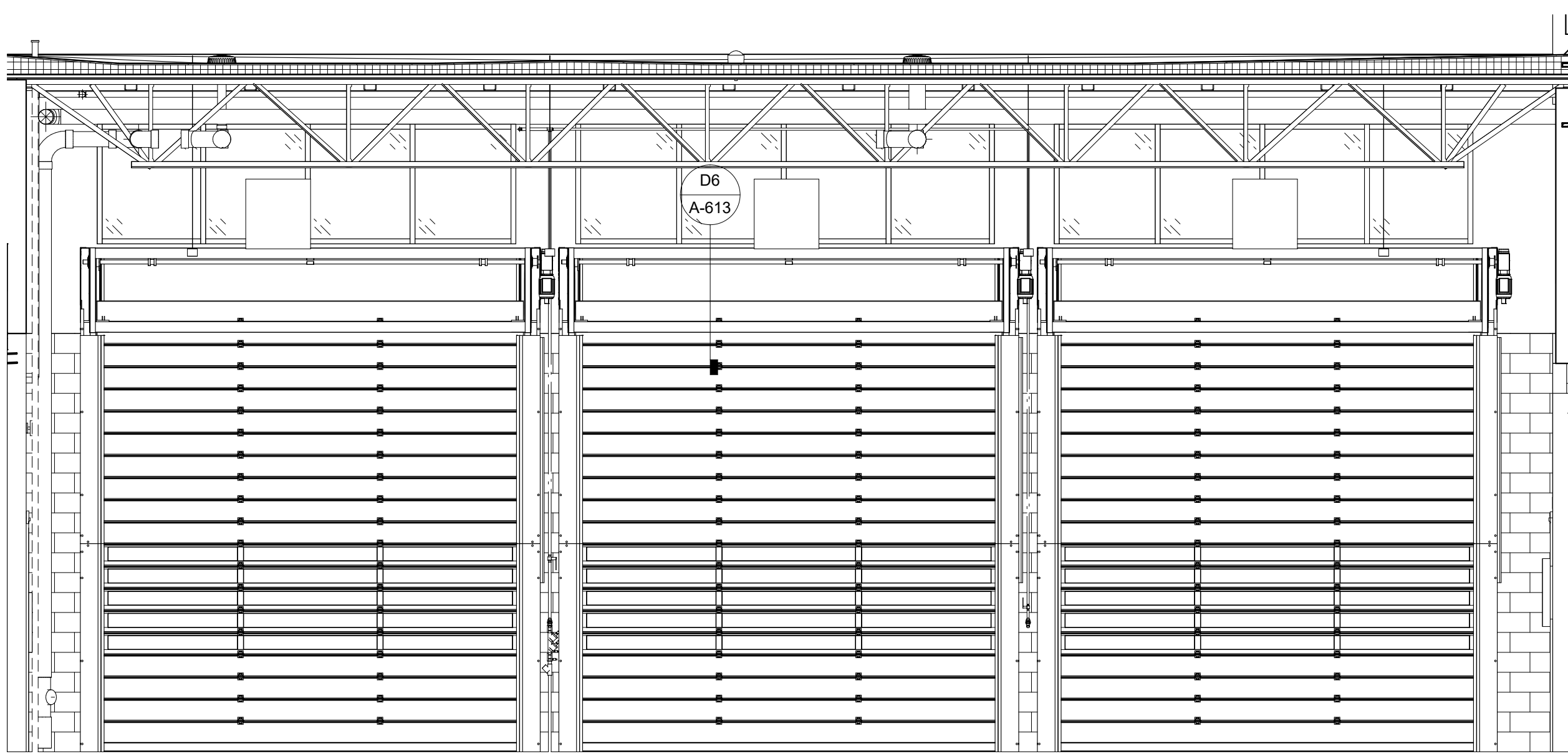
FEC



B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"

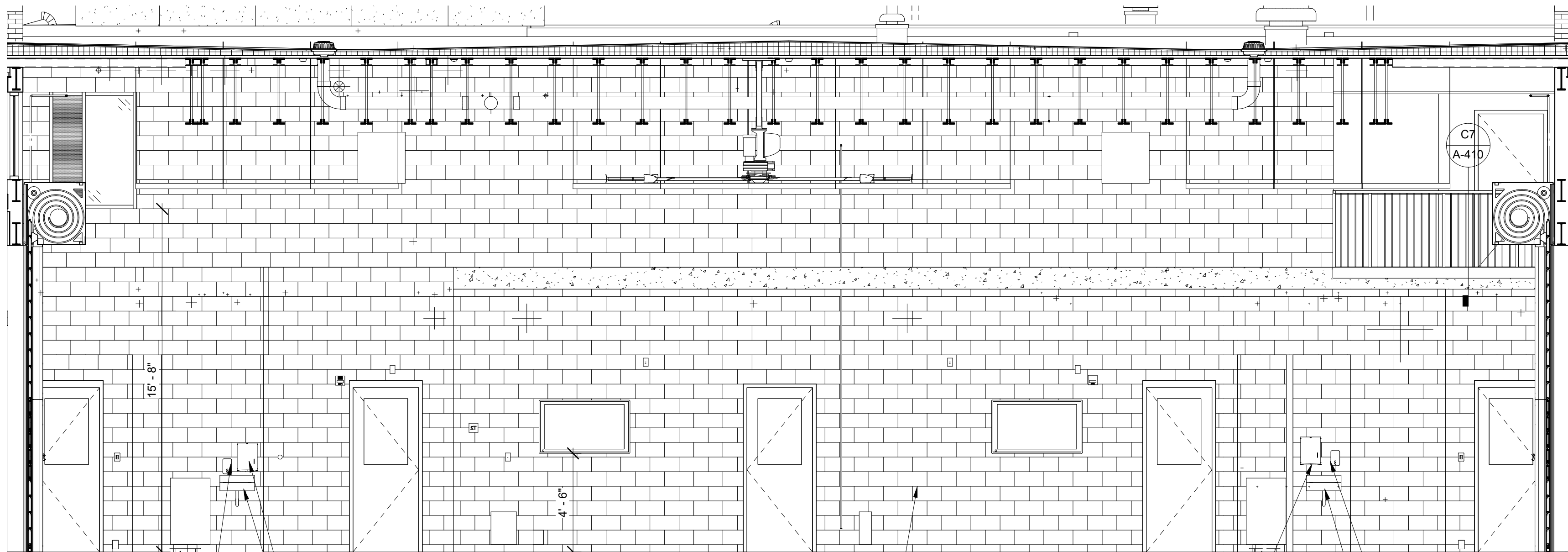
0 2' 4' 8'



B5 APPARATUS BAY WEST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



A3 APPARATUS BAY SOUTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



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APPARATUS BAY ELEVATIONS

I-203

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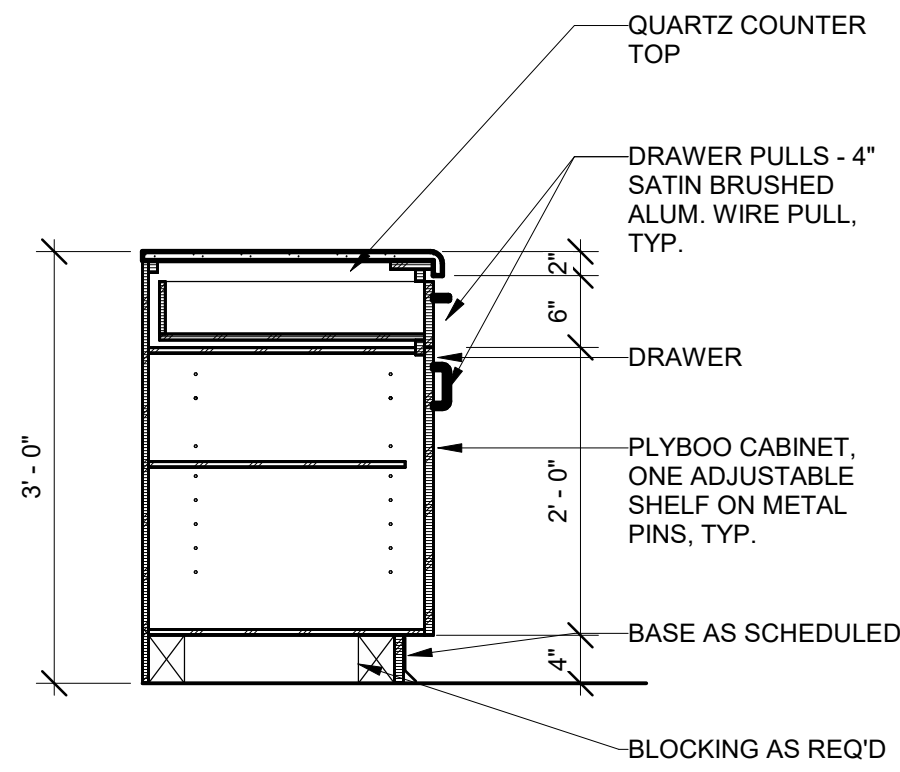
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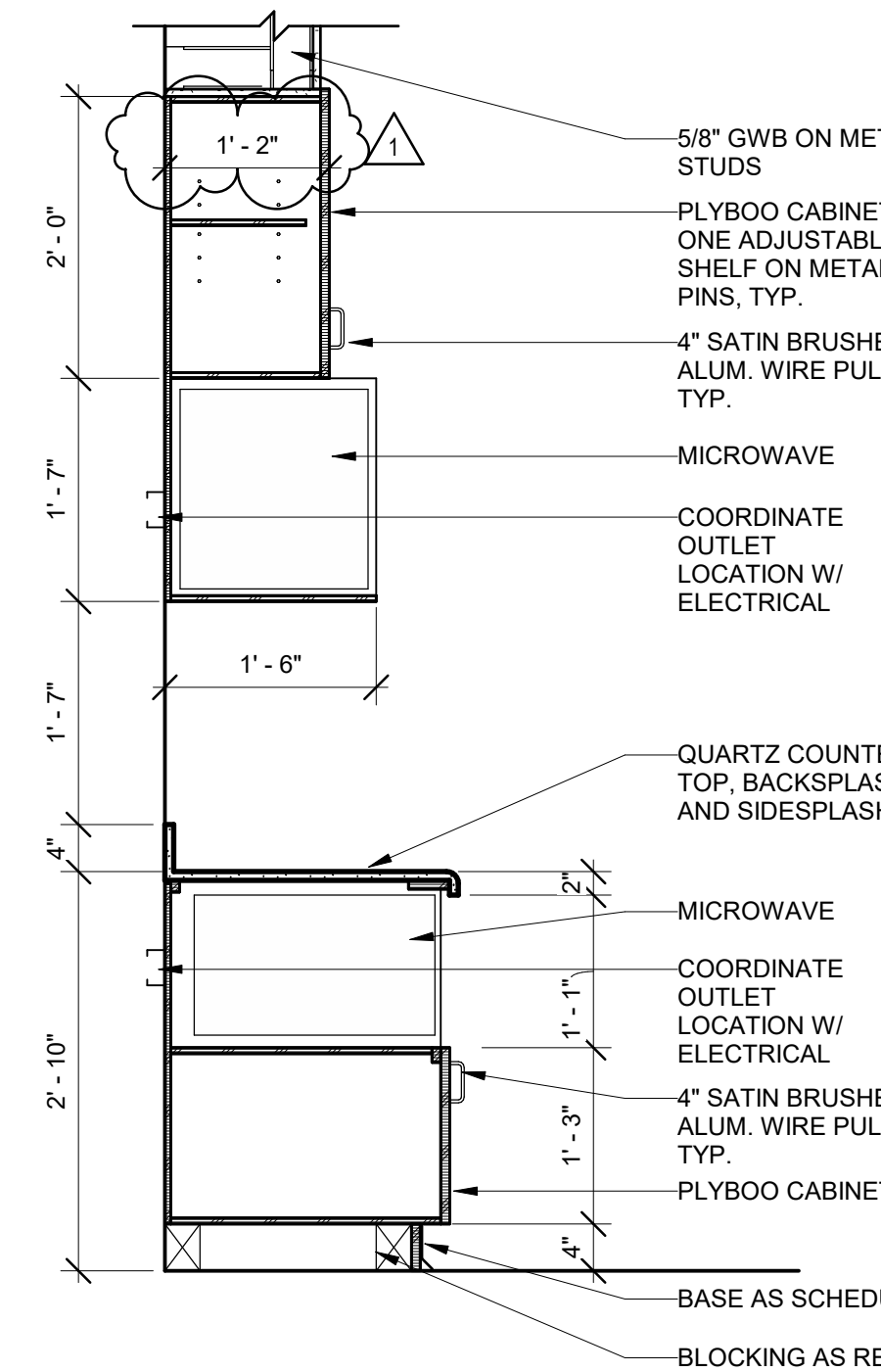
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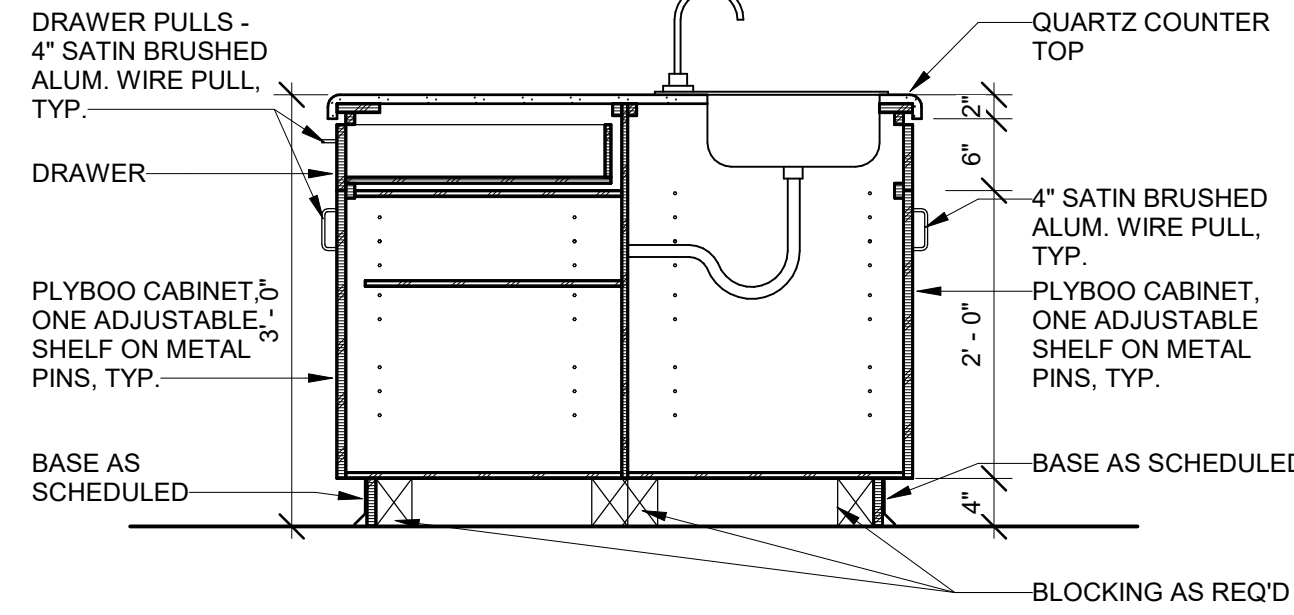
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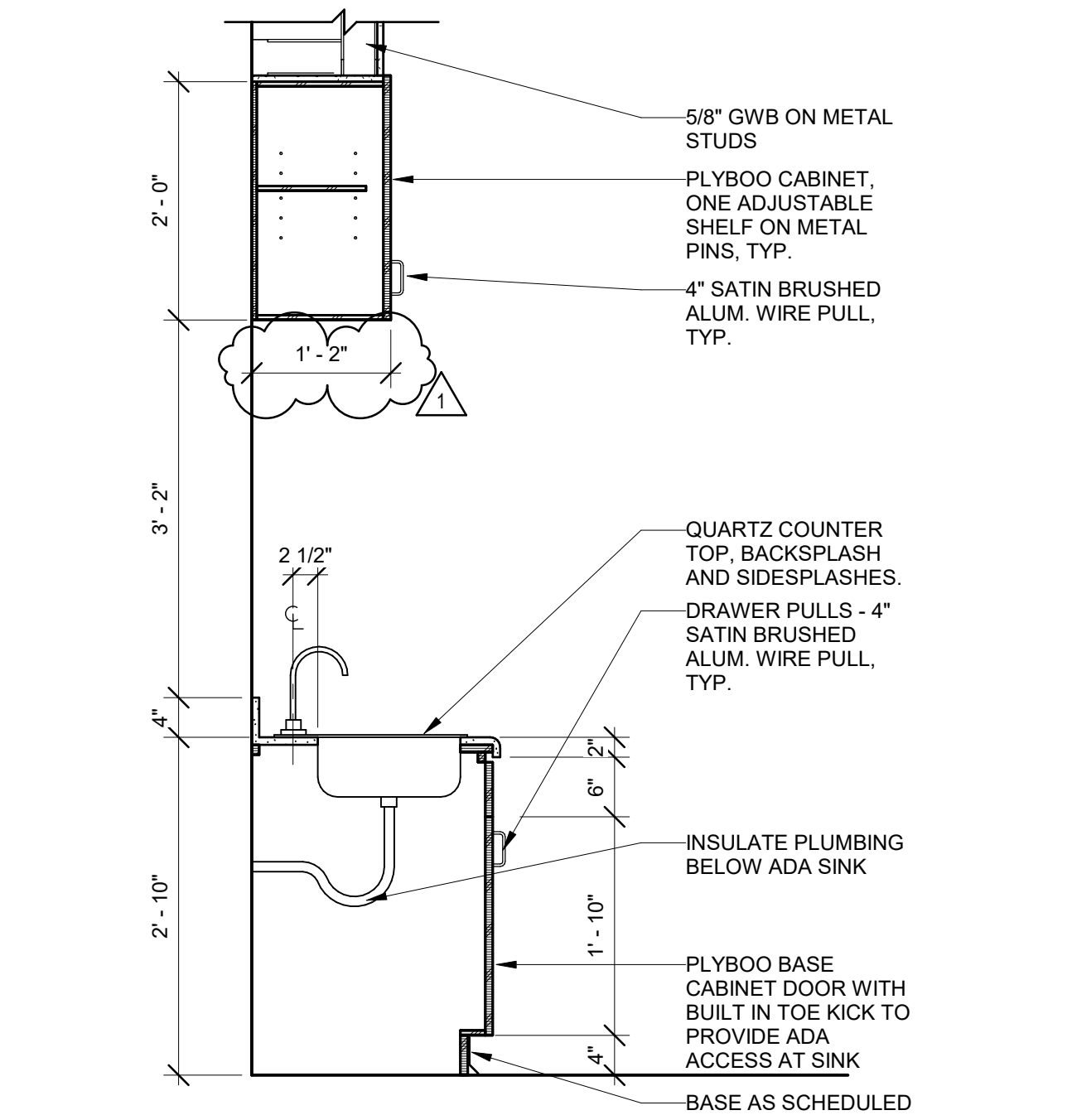
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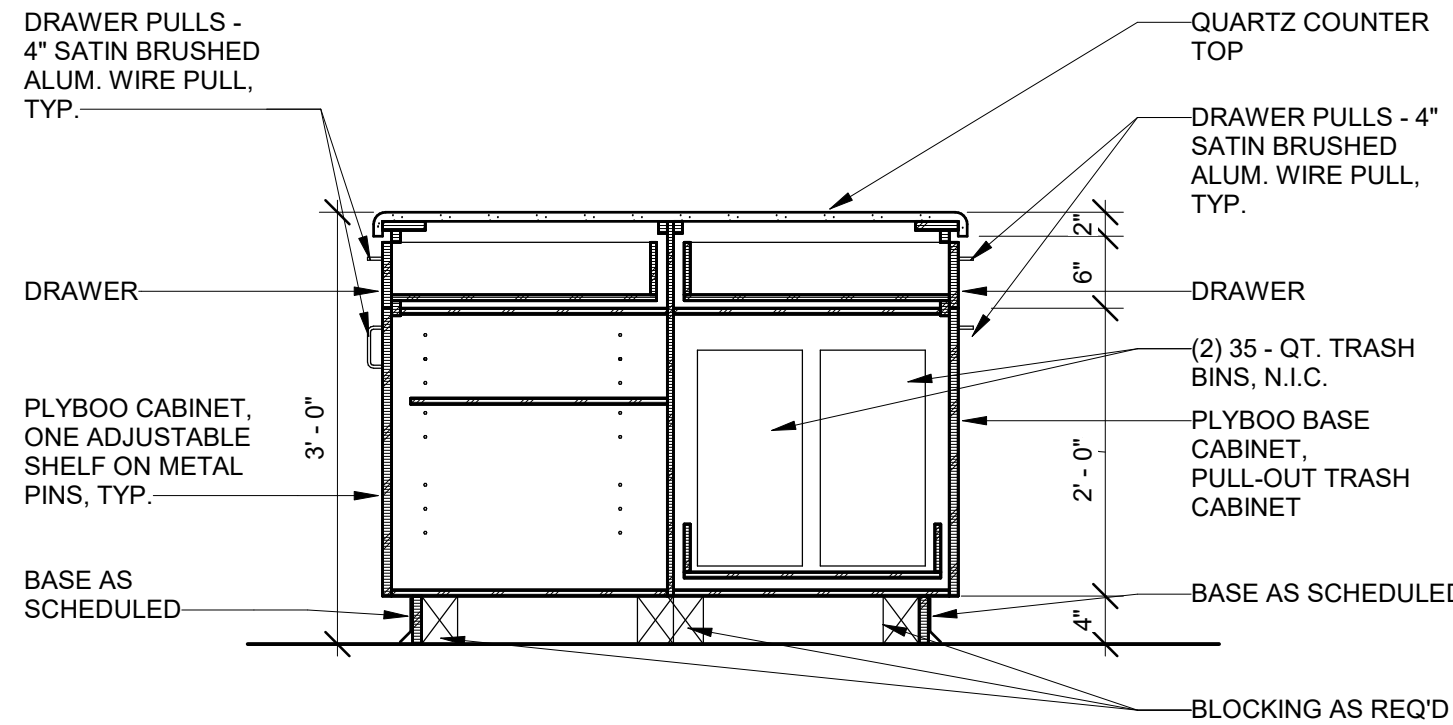
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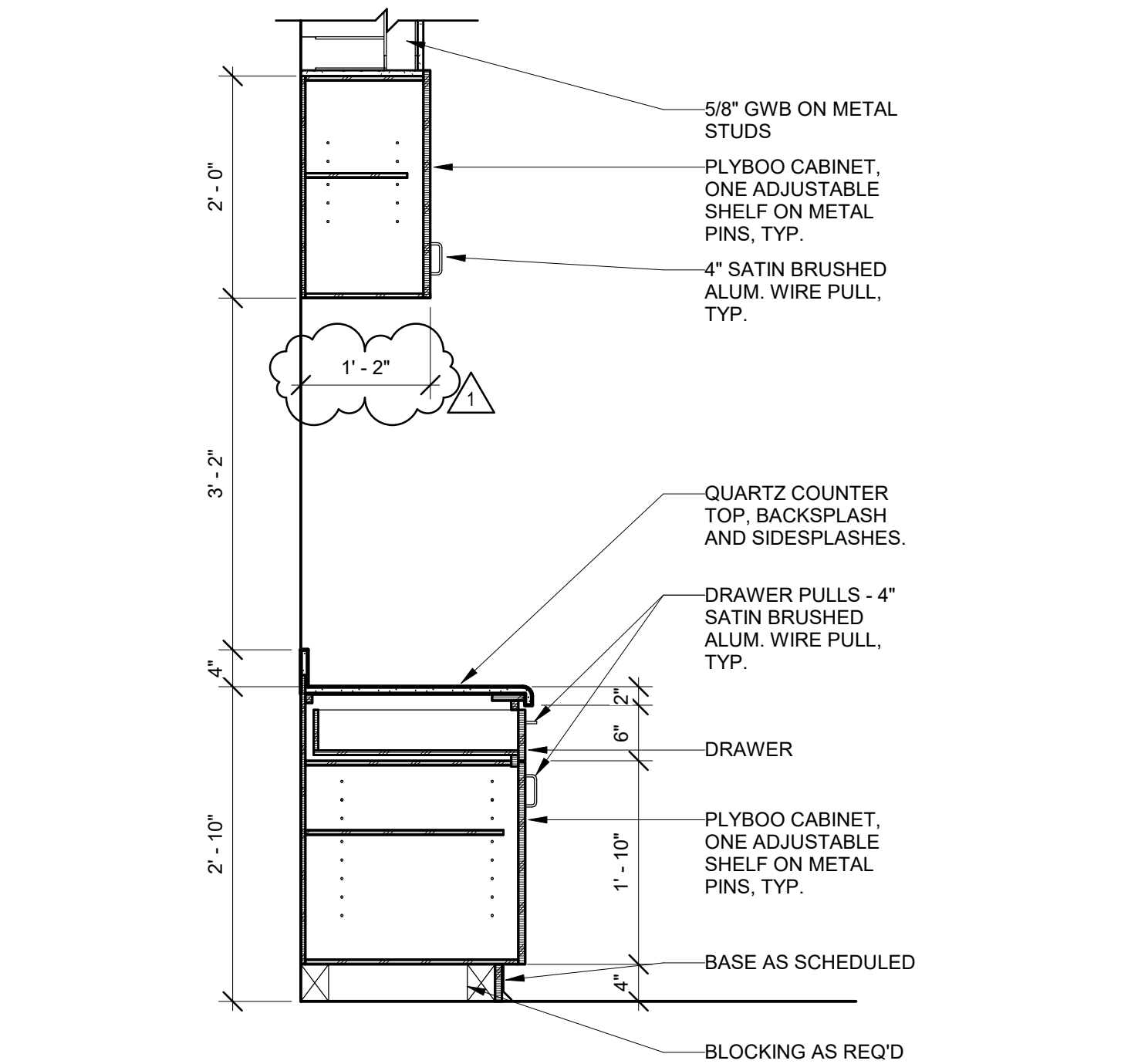
C2 CASEWORK SECTION @ ISLAND SINK



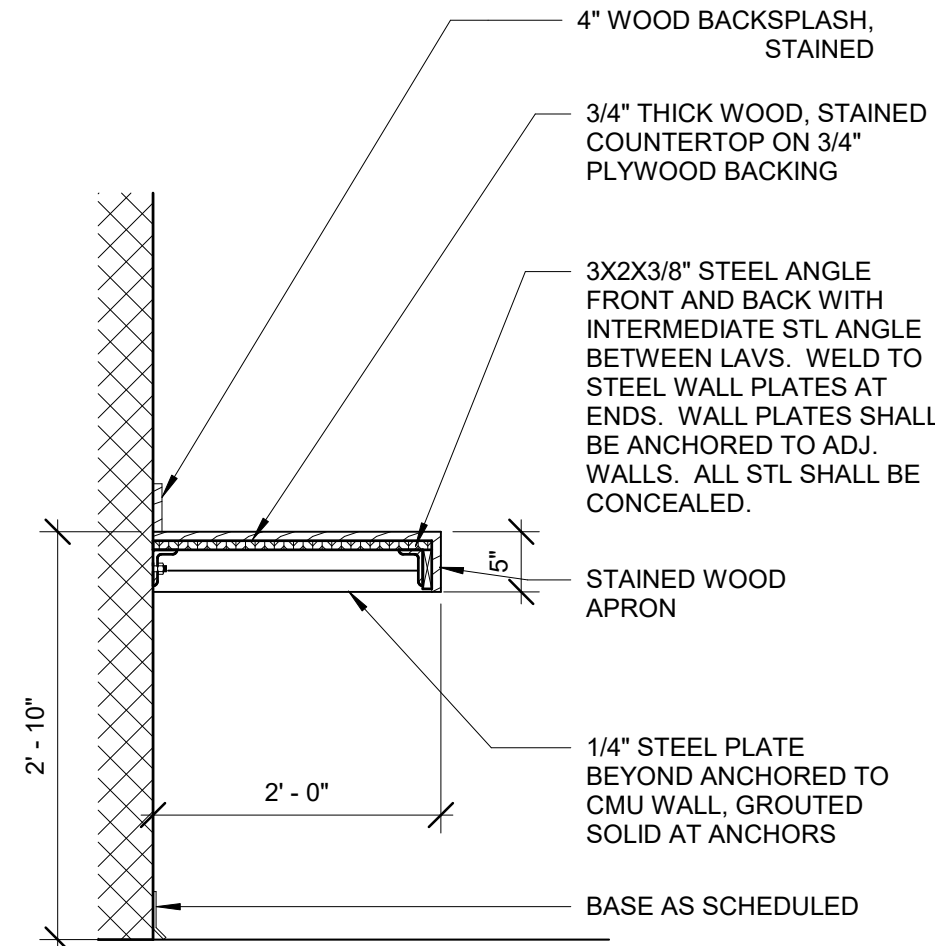
A2 CASEWORK SECTION @ ADA SINK



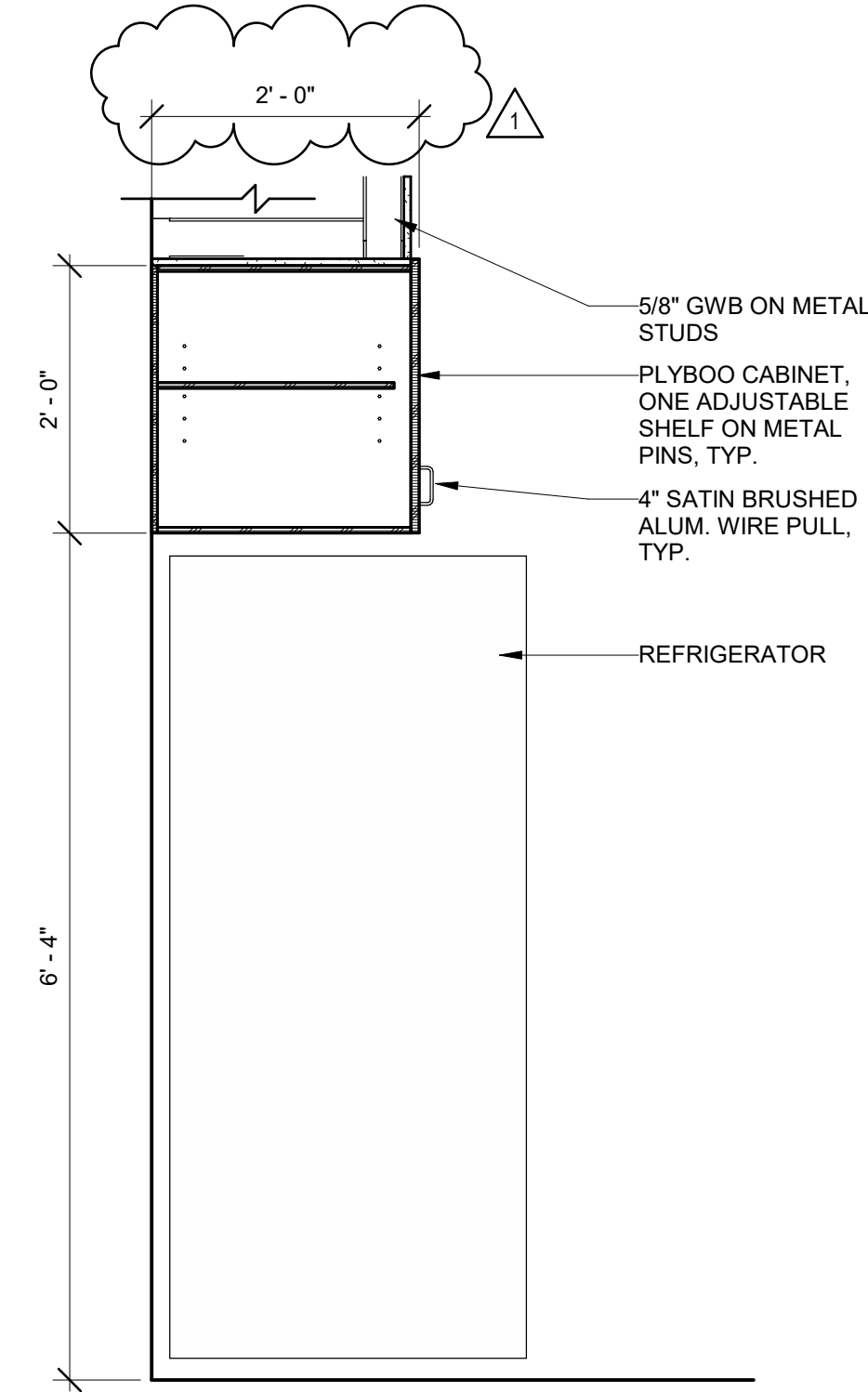
C4 CASEWORK SECTION @ RECYCLING



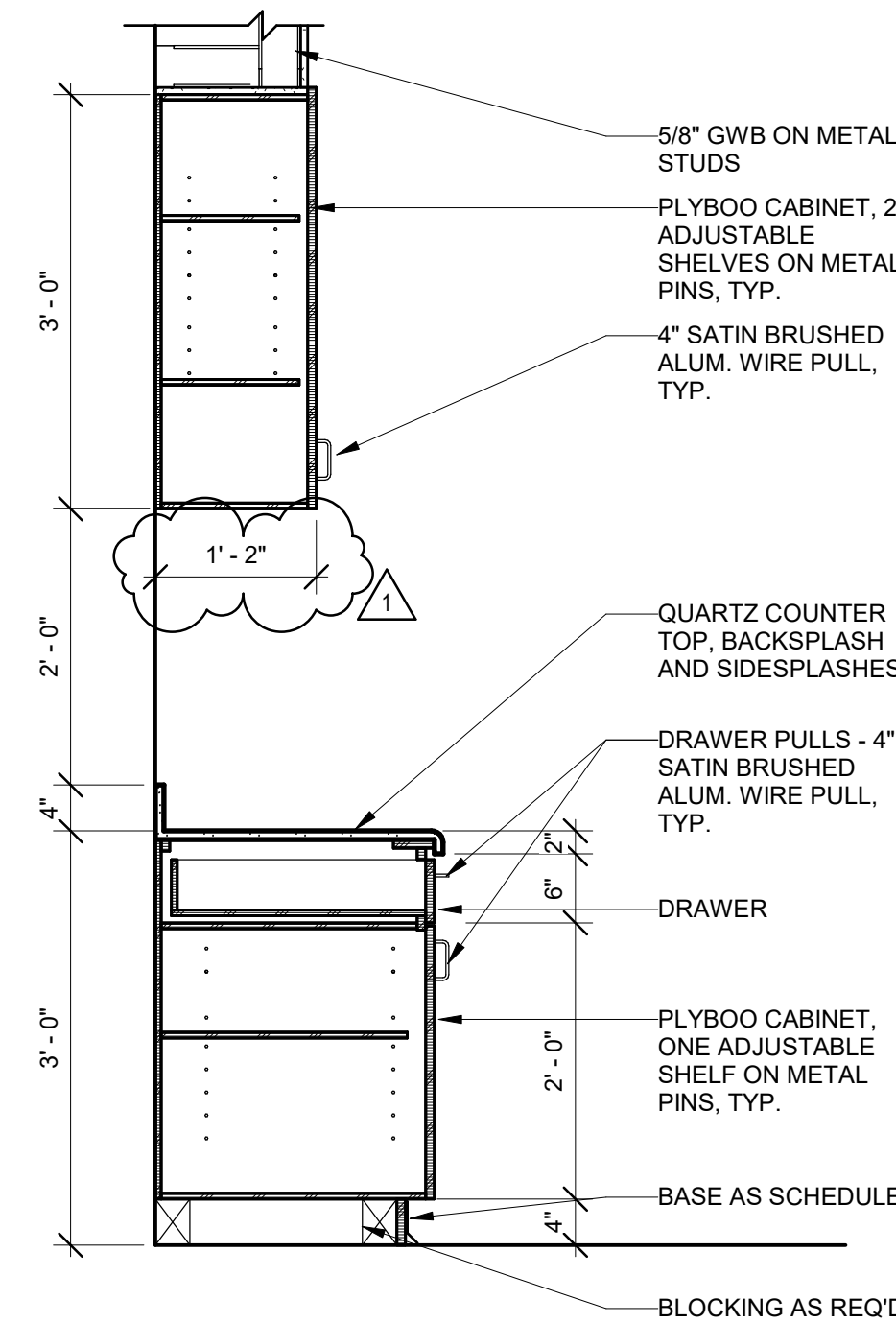
A4 CASEWORK SECTION @ KITCHEN ADA, TYP.



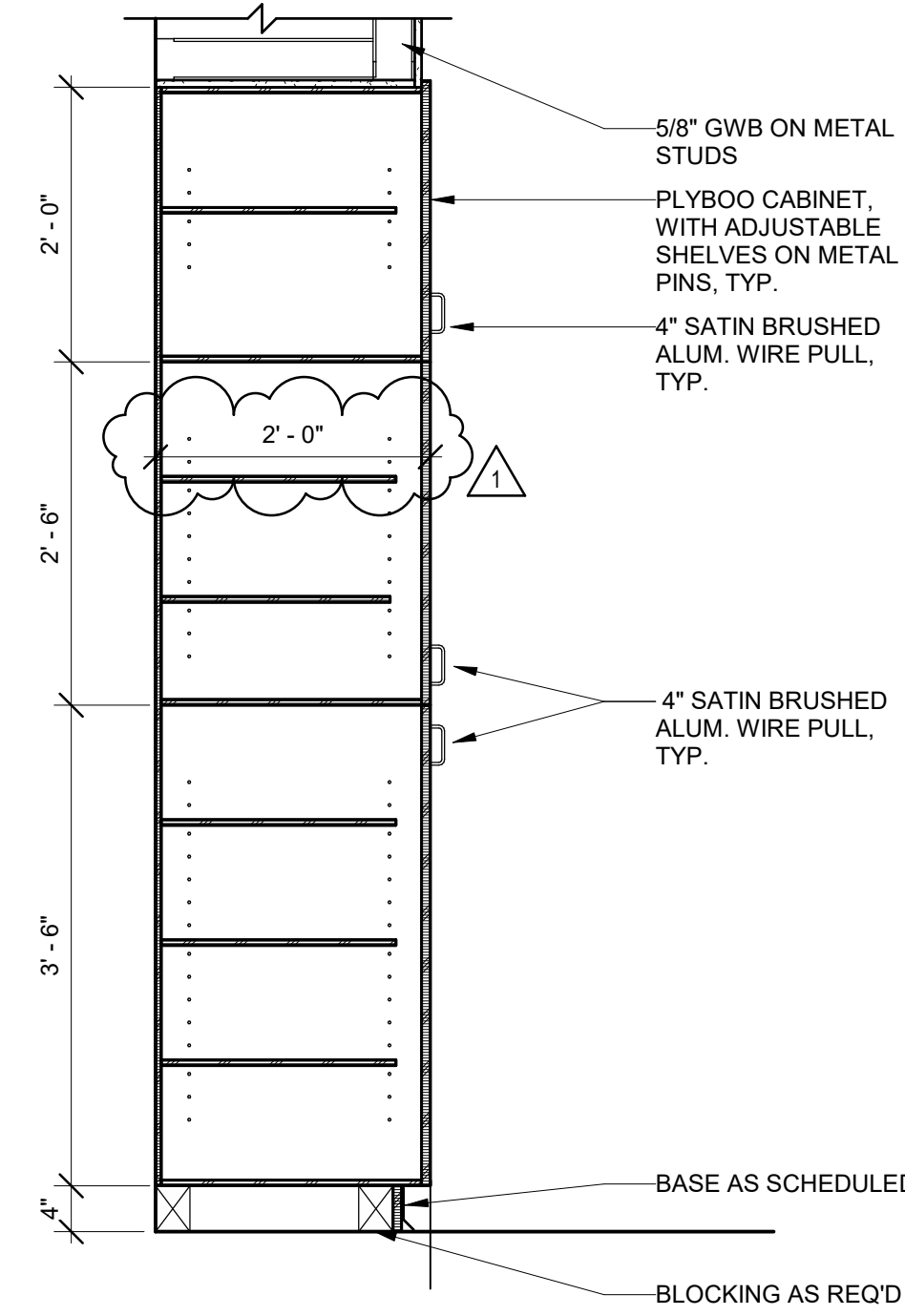
D4 WORKBENCH



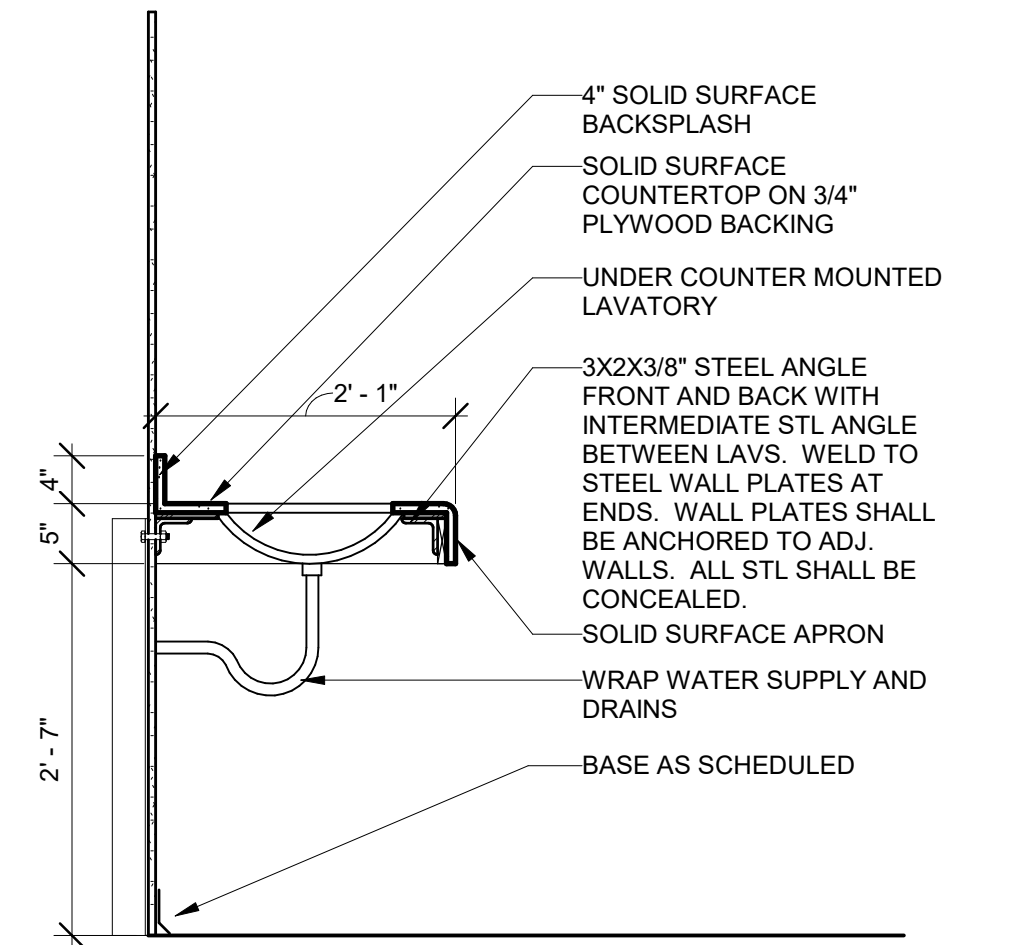
C6 CASEWORK SECTION @ REFRIGERATOR



A6 CASEWORK SECTION @ KITCHEN, TYP.



C7 CASEWORK SECTION @ PANTRY



A7 CASEWORK SECTION @ TOILETS

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| CHK'D BY: | BUD |

CASEWORK SECTIONS

I-501

E

D

C

B

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| ROOM NO. | NAME | FLOOR | BASE TYPE/ FINISH | NORTH MAT. / FIN. | EAST MAT. / FIN. | SOUTH MAT. / FIN. | WEST MAT. / FIN. | CEILING | IR | WET | REMARKS |
|----------|---------------------|---------------|----------------------|----------------------|---------------------|----------------------|---------------------|----------------|----|-----|---|
| | | | | | | | | | | | |
| 100 | ENTRY VEST. | POLISHED CONC | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | | | |
| 101 | PUBLIC TOILET | RF | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | | | PROTECTION BOARD ON WET WALL |
| 103 | ADMIN. TOILET | RF | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | PROTECTION BOARD ON WET WALL |
| 105 | TEL / RADIO | VCT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | EXP/PTD | | | |
| 106 | CONF. RM. | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 107 | ELEV | | | | | | | | | | |
| 108 | CAPTAIN'S OFFICE | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 109 | RAMP | SC | RB | CMU/PTD | CMU/PTD | GWB/PTD | CMU/PTD | EXP/PTD | | | |
| 110 | EMS STOR. | SC | RB | CMU/PTD | CMU/PTD | GWB/PTD | CMU/PTD | EXP/PTD | | | |
| 111 | PPE / LOCKERS | SC | RB | CMU/PTD | CMU/PTD | CMU/PTD | CMU/PTD | EXP/PTD | | | |
| 112 | DECON | SC | RB | CMU/ EPOXY PTD | CMU/ EPOXY PTD | CMU/ EPOXY PTD | CMU/ EPOXY PTD | EXP/PTD | | | |
| 113 | DECON TOIL. | SC | RB | CMU/ EPOXY PTD | CMU/ EPOXY PTD | CMU/ EPOXY PTD | CMU/ EPOXY PTD | EXP/PTD | | | |
| 114 | RAMP | SC | RB | CMU/PTD | GWB/PTD | GWB/PTD | CMU/PTD | EXP/PTD | | | |
| 115 | JAN. | | | | | | | | | | |
| 116 | KITCHEN | POLISHED CONC | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT DECORATIVE | | | |
| 117 | DINING | POLISHED CONC | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT DECORATIVE | | | |
| 118 | DAY ROOM | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT DECORATIVE | | | |
| 119 | APPARATUS BAY | SC | - | CMU/PTD | CMU/PTD | CMU/PTD | CMU/PTD | EXP/PTD | | | |
| 120 | UTILITY | SC | - | CMU/PTD | CMU/PTD | CMU/PTD | CMU/PTD | EXP/PTD | | | |
| 121 | SHOP | SC | - | CMU/PTD | CMU/PTD | CMU/PTD | CMU/PTD | EXP/PTD | | | |
| 122 | EXERCISE / WELLNESS | RAF | RB | CMU/PTD | CMU/PTD | CMU/PTD | CMU/PTD | ACT | | | |
| 200 | STAIR | RT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 201 | CORRIDOR | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | CORRIDOR WALLS TO RECEIVE CORNER GUARDS |
| 202 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 202A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 202B | TOILET | PT | PT | PT | GWB/PTD/PT | GWB/PTD | GWB/PTD/PT | GWB/PTD | | | |
| 203 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 203A | CAPTAIN'S BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 203B | TOILET | PT | PT | GWB/PTD | GWB/PTD/PT | PT | GWB/PTD | GWB/PTD | | | |
| 204 | MEZZANINE | | | | | | | | | | |
| 205 | LAUNDRY/JAN. | PT | PT | GWB/PTD | GWB/PTD | CMU/PTD | CMU/GWB/PTD | ACT | | | |
| 206 | MECH. | SC | - | CMU/PTD | GWB/PTD | CMU/PTD | GWB/PTD | - | | | |
| 207 | GENERAL STORAGE | SC | RB | GWB/PTD | GWB/PTD | CMU/PTD | GWB/PTD | | | | |
| 208 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 208A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 208B | TOILET | PT | PT | GWB/PTD | GWB/PTD/PT | PT | GWB/PTD/PT | GWB/PTD | | | |
| 209 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 209A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 209B | TOILET | PT | PT | PT | GWB/PTD/PT | GWB/PTD | GWB/PTD/PT | GWB/PTD | | | |
| 210 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 210A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 210B | TOILET | PT | PT | PT | GWB/PTD/PT | GWB/PTD | GWB/PTD/PT | GWB/PTD | | | |
| 211 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 211A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 211B | TOILET | PT | PT | PT | GWB/PTD/PT | GWB/PTD | GWB/PTD/PT | GWB/PTD | | | |
| 212 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 212A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 212B | TOILET | PT | PT | PT | GWB/PTD/PT | GWB/PTD | GWB/PTD/PT | GWB/PTD | | | |
| 213 | LOCKERS | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 213A | BUNK | CPT | RB | GWB/PTD | GWB/PTD | GWB/PTD | GWB/PTD | ACT | | | |
| 213B | TOILET | PT | PT | PT | GWB/PTD/PT | GWB/PTD | GWB/PTD/PT | GWB/PTD | | | |

ROOM FINISH CODE

GENERAL NOTES:

1. ALL FLOOR FINISHES TO EXTEND UNDER MOVEABLE FURNITURE
2. ALL EXPOSED STRUCTURE IS TO BE PAINTED U.N.O.
3. PROVIDE WINDOW TREATMENTS AT ALL EXTERIOR WINDOWS AND/OR STOREFRONT GLAZING SYSTEM SECTIONS
4. ALL WALL/CEILING/EXPOSED STRUCTURE PAINT COLORS TO BE P-1 U.N.O. REFER TO FINISH PLANS FOR EXTENT OF ACCENT WALL COLORS
5. ALL TILED WALLS TO USE GLASS MAT BOARD
6. ALL ROOMS MARKED "WET" ARE TO RECEIVE WATER RESISTANT GWB
7. ALL ROOMS MARKED "IR" ARE TO RECEIVE 5/8" IMPACT RESISTANT TYPE 'X' GWB

FINISH SCHEDULE LEGEND:

ACT ACOUSTICAL CEILING TILE
CPT CARPET TILE
CMU CONCRETE MASONRY UNIT
EXP EXPOSED STRUCTURE
GWB GYPSUM WALL BOARD
HPC HIGH PERFORMANCE COATING
IR IMPACT RESISTANT
PC POLISHED CONCRETE
PT PORCELAIN TILE
PTD PAINTED
RAF RESILIENT ATHLETIC FLOOR
RF RUBBER FLOORING
RT RUBBER TREAD
RB RUBBER BASE
SC SEALED CONCRETE



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| DATE: | 11.21.2022 |
| DRAWN BY: | KSK |
| CHK'D BY: | PJM |

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FINISH SCHEDULE

I-601

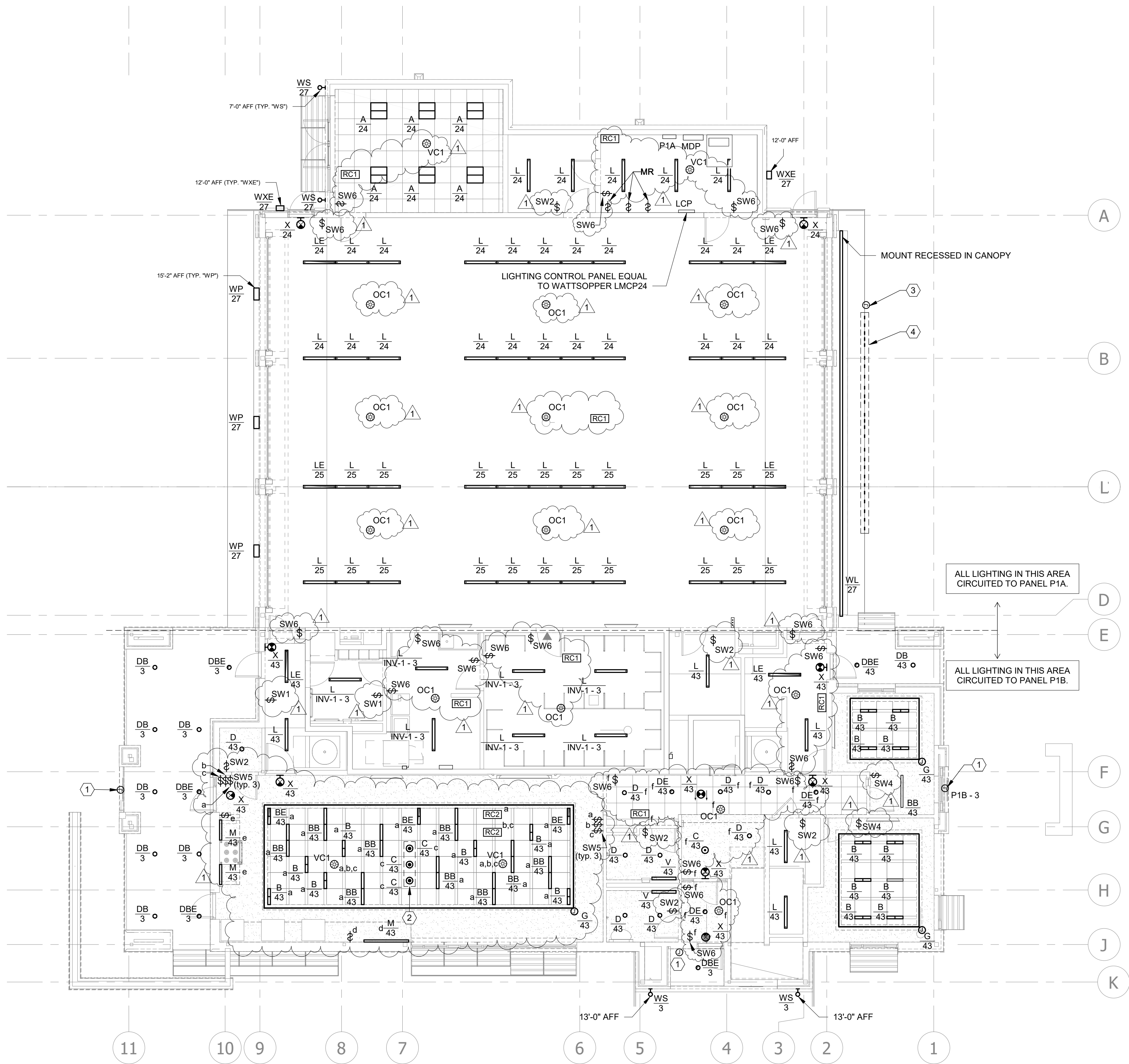
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ALL EXTERIOR LIGHTING AND
SIGNAGE TO BE CIRCUITED THROUGH
LIGHTING CONTROL PANEL 'LCP'.

ALL LIGHTING IN THIS AREA
CIRCUITED TO PANEL P1A.

ALL LIGHTING IN THIS AREA
CIRCUITED TO PANEL P1B.

LIGHTING PLAN NOTES:

- 1 J-BOX INSTALLED TO PROVIDE POWER FOR BUILDING MOUNTED SIGNAGE WITH INTEGRAL LIGHTING.
- 2 BOTTOM OF "C" FIXTURES IN DINING SHALL BE HUNG 6'-4" AFF.
- 3 J-BOX INSTALLED TO PROVIDE POWER TO DRIVER AND LED STRIP LIGHTS FOR OUTDOOR SIGNAGE LIGHTING
- 4 LED STRIP SHALL BE INSTALLED BEHIND EACH LETTER BETWEEN STUDS AT THE TOP OF EACH SPACE. THE LED STRIP SHALL BE INSTALLED AT A LENGTH FROM STUD TO STUD INDIVIDUAL SECTIONS SHOULD EACH HAVE A FIXTURE WHIP LONG ENOUGH TO REACH THE DRIVER LOCATION ALL CONNECTIONS TO THE DRIVER SHALL OCCUR INSIDE THE BUILDING. COORDINATE EXACT REQUIREMENTS OF INSTALLATION WITH ARCHITECT BEFORE ROUGH IN.



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FIRST FLOOR
LIGHTING RCP

E101

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A1 FIRST FLOOR LIGHTING RCP

1/8" = 1'-0"



FILE PATH: B:\360-118225R21001_FireStation_#4 and #5\LSMO_FIRE STATION_5_MEP_V19.rvt

LIGHTING PLAN NOTES:

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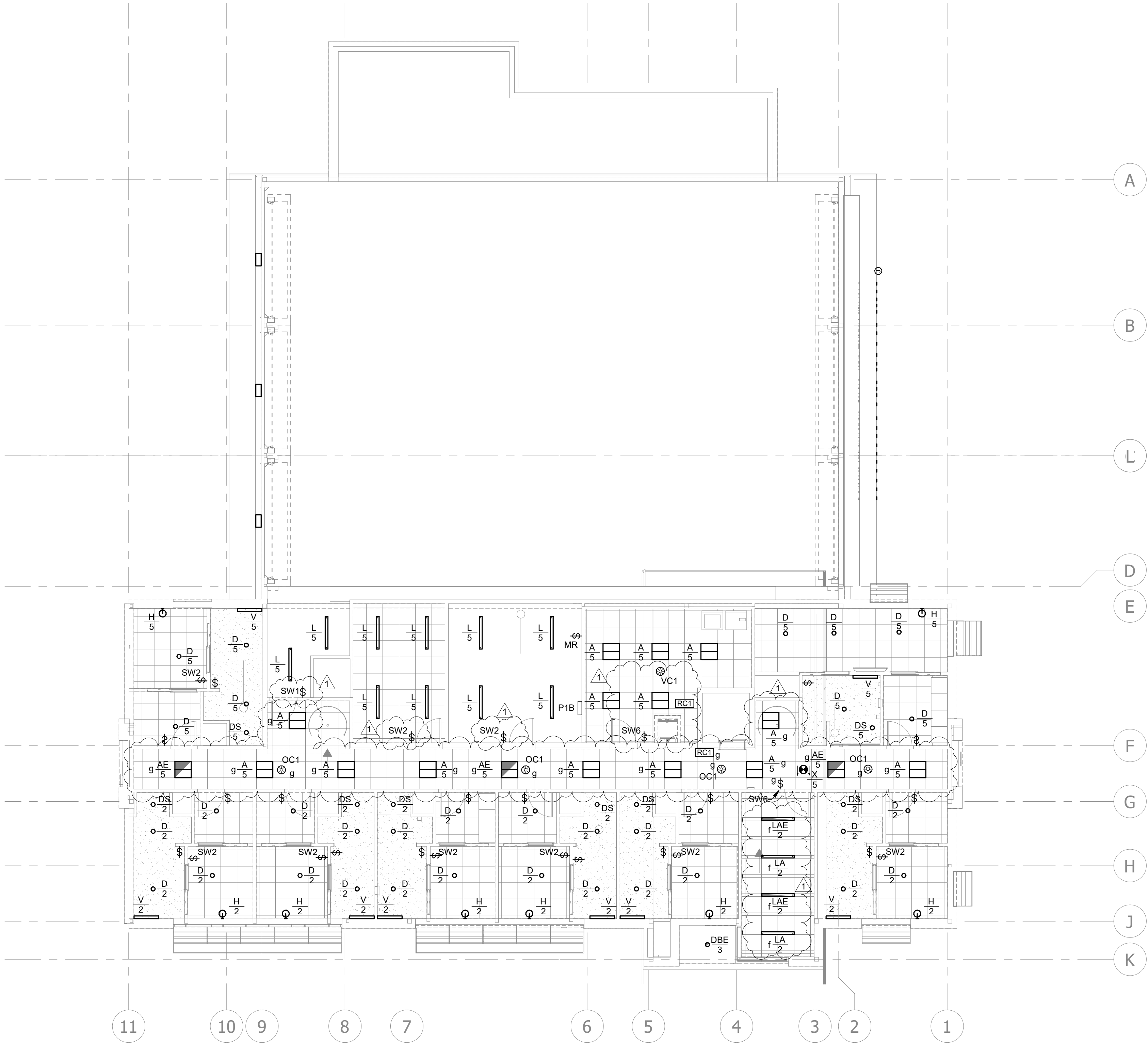
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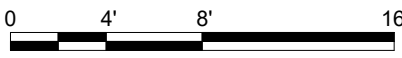
SECOND FLOOR
LIGHTING RCP

E102

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1 SECOND FLOOR LIGHTING RCP
1/8" = 1'-0"



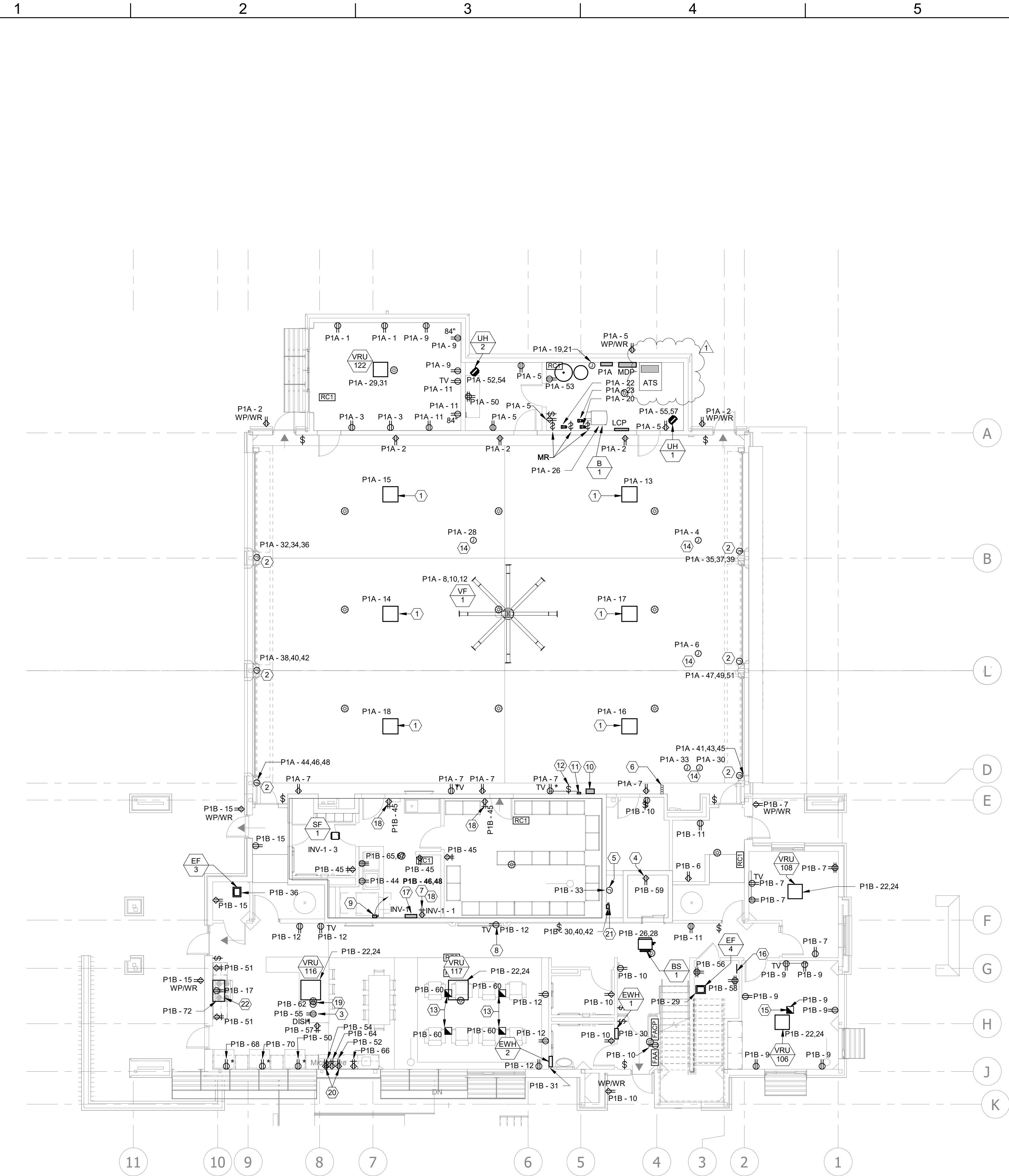
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A1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"

- ELECTRICAL PLAN NOTES:**
- 1 REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR AIR-VAC SYSTEM DETAILS.
 - 2 J-BOX INSTALLED FOR POWER TO AUTOMATIC GARAGE DOOR. COORDINATE EXACT LOCATION WITH GARAGE DOOR MOTOR INSTALLATION.
 - 3 RECEPTACLE INSTALLED UNDER COUNTER FOR DISHWASHER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
 - 4 GFCI RECEPTACLE INSTALLED IN ELEVATOR PIT.
 - 5 J-BOX INSTALLED FOR ELEVATOR LIGHTING.
 - 6 GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
 - 7 PROVIDE RED COLORED RECEPTACLE FOR EMERGENCY. POWERED FROM THE INVERTER.
 - 8 MOUNT TV RECEPTACLE IN WALL FURRING.
 - 9 240V/2P/30A FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. PROVIDE FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
 - 10 AIR-VAC SYSTEM CONTROLLER. REFER MECH.
 - 11 MULTI-GAS DETECTION SYSTEM. REFER MECH.
 - 12 VF-1 FAN CONTROLLER. REF. MECH.
 - 13 TYPE A: SINGLE GANG RECEPTACLE FLOOR BOX, REFER TO SPECS.
 - 14 PROVIDE 30FT. HEAVY-DUTY #12 AWG. POWER CORD WITH NEMA 5-20R CONNECTION. PROVIDE STRAIN RELIEF WHERE CORD MOUNTS TO THE J-BOX ABOVE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - 15 TYPE B: TWO GANG RECEPTACLE/DATA FLOOR BOX, REFER TO SPECS. ROUTE 1-1/2" CONDUIT FROM FLOOR BOX UP INTO WALL FOR AVIT NEEDS.
 - 16 PROVIDE GROUNDING BAR IN TEL/RADIO. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
 - 17 STORM SHELTER INVERTER. REFER TO SPECS.
 - 18 RECEPTACLE SHALL BE SURFACE MOUNTED WITH SURFACE RACEWAY.
 - 19 PROVIDE POWER CONNECTION AND SWITCH UNDER SINK FOR DISPOSER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
 - 20 MICROWAVE RECEPTACLES. MOUNT ONE AT 24" AFF. AND THE SECOND AT 5'-6" VERIFY EXACT DIMENSIONS WITH CASEWORK.
 - 21 PROVIDE EATON ELEVATOR POWER SWITCH MODEL ES1T2R2GF1_N.
 - 22 PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #G300B. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF, CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM/STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

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**FIRST FLOOR
POWER PLAN**

E201

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- 15 PROVIDE CYCLONE, OR EQUAL, CWVSO
10X11X10 SHROUD AROUND DRYER
DUCT PENETRATION



M101

1 2 3 4 5 6 7 8

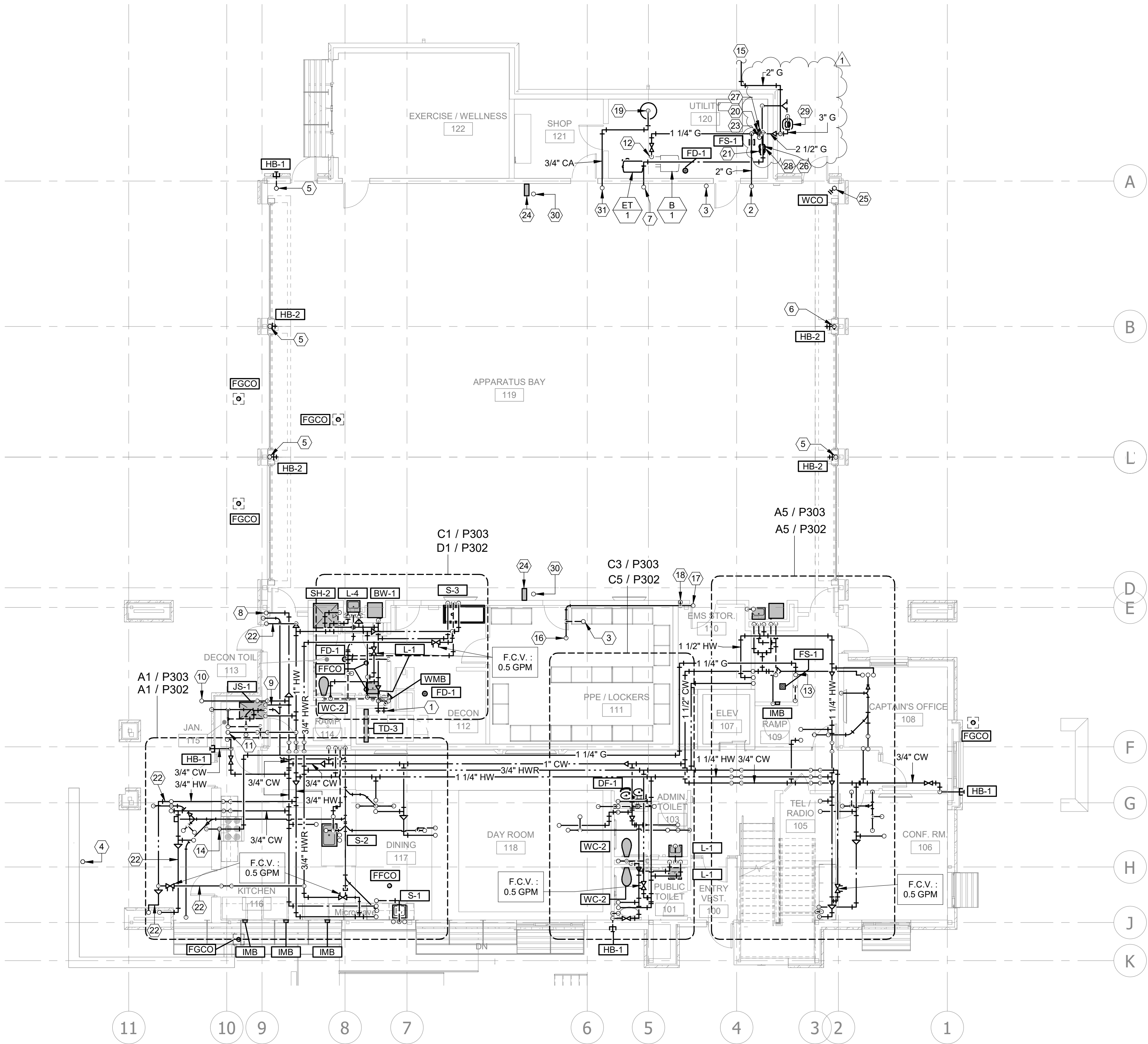
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A



A1 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"



PLUMBING PLAN NOTES:

- 1 PROVIDE TWO HB-2, ONE COLD, ONE HOT, FOR THE WATER CONNECTIONS TO THE COMMERCIAL WASHING MACHINE.
- 2 2" NATURAL GAS UP.
- 3 2" VENT UP.
- 4 3/4" NATURAL GAS AND SHUT-OFF VALVE UP TO GRILL.
- 5 3/4" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE.
- 6 1" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE. 1" LINE CONTINUES BELOW GRADE WITH 1" DOUBLE CHECK BACK FLOW PREVENTER CONNECTED IN LINE.
- 7 1-1/2" COLD WATER PIPE UP.
- 8 1/2" COLD, 1/2" HOT, AND 2" WASTE UP TO LAVATORY.
- 9 3/4" COLD, 3/4" HOT WATER, AND 1-1/2" VENT DOWN TO JANITOR'S SINK.
- 10 1/2" COLD WATER AND 4" WASTE UP TO WATER CLOSET.
- 11 1/2" COLD, 1/2" HOT WATER, AND 2" TRAPPED WASTE UP TO SHOWER.
- 12 1-1/4" GAS DOWN TO BOILER.
- 13 1-1/4" GAS FROM ABOVE.
- 14 1-1/4" GAS DOWN. 3/4" GAS TO TEE OFF AND SERVE RANGE OVEN WITH SHUT-OFF VALVE. PROVIDE SOLENOID VALVE IN LINE TO RANGE FOR CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM. 3/4" GAS PIPE TO TEE OFF AND BE ROUTED OUTSIDE OF BUILDING AND DOWN BELOW GRADE TO OUTDOOR GRILL.
- 15 2" GAS TO GENERATOR.
- 16 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- 17 2" WASTE UP TO SINK.
- 18 2" WASTE DOWN.
- 19 3/4" COMPRESSED AIR PIPING DOWN TO COMPRESSOR.
- 20 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING DOMESTIC WATER TO BE MOUNTED IN VERTICAL POSITION.
- 21 4" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
- 22 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
- 23 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE.
- 24 AIR HOSE REEL, REFER TO SPECS.
- 25 6" STORM DRAIN DOWN BELOW GRADE.
- 26 4" FIRE PROTECTION WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
- 27 2" DOMESTIC WATER SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 28 4" FIRE SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 29 NEW GAS SERVICE AND METER.
- 30 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 31 3/4" COMPRESSED AIR UP.


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**FIRST FLOOR
PLUMBING PLAN**

P101

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FILE PATH: BM 380-118225R21001_Lee'sSummitFireStation_#4 and #5LSMO_FIRE STATION_5_WEP_V19.rvt

SPECIFICATIONS

1. 4" Plain End inlet/outlet, 3" Plain End vents.
2. Max flow rate: 100 GPM
3. Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
4. Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
5. Maximum operating temperature 140 °F continuous.
6. Highway rated covers: 16,000 lb. capacity.

NOTES

1. Snap-in Flow control (ships with unit).
2. Seamless medium density polyethylene tank.
3. Unit supplied with built-in adapter for up to 5" of adjustability. Additional riser(s) available for deeper burial depth.
4. Cover placement allows full access to tank for proper maintenance.
5. Narrow footprint allows clearance through doorways and down stairs.
6. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
7. For on the-floor or buried applications.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE

Striem Oil Reserve™ oil/sand separator model OS-100 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, snap-in flow control and (2) vent connections. Separator flow rate shall be 100 GPM. Separator oil capacity shall be 144 gallons. Sand capacity shall be 95 gallons. Covers shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

The OS-100 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

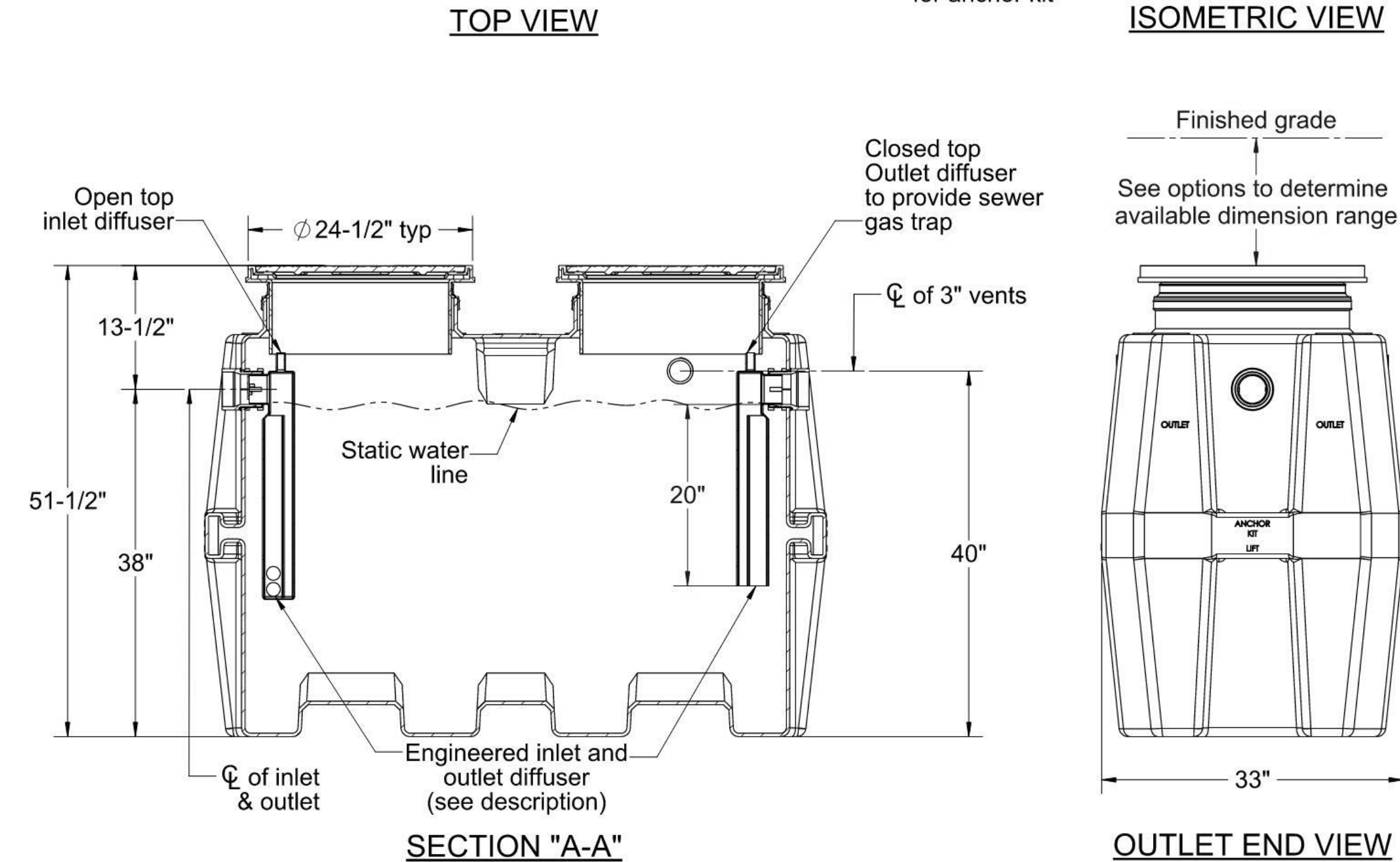
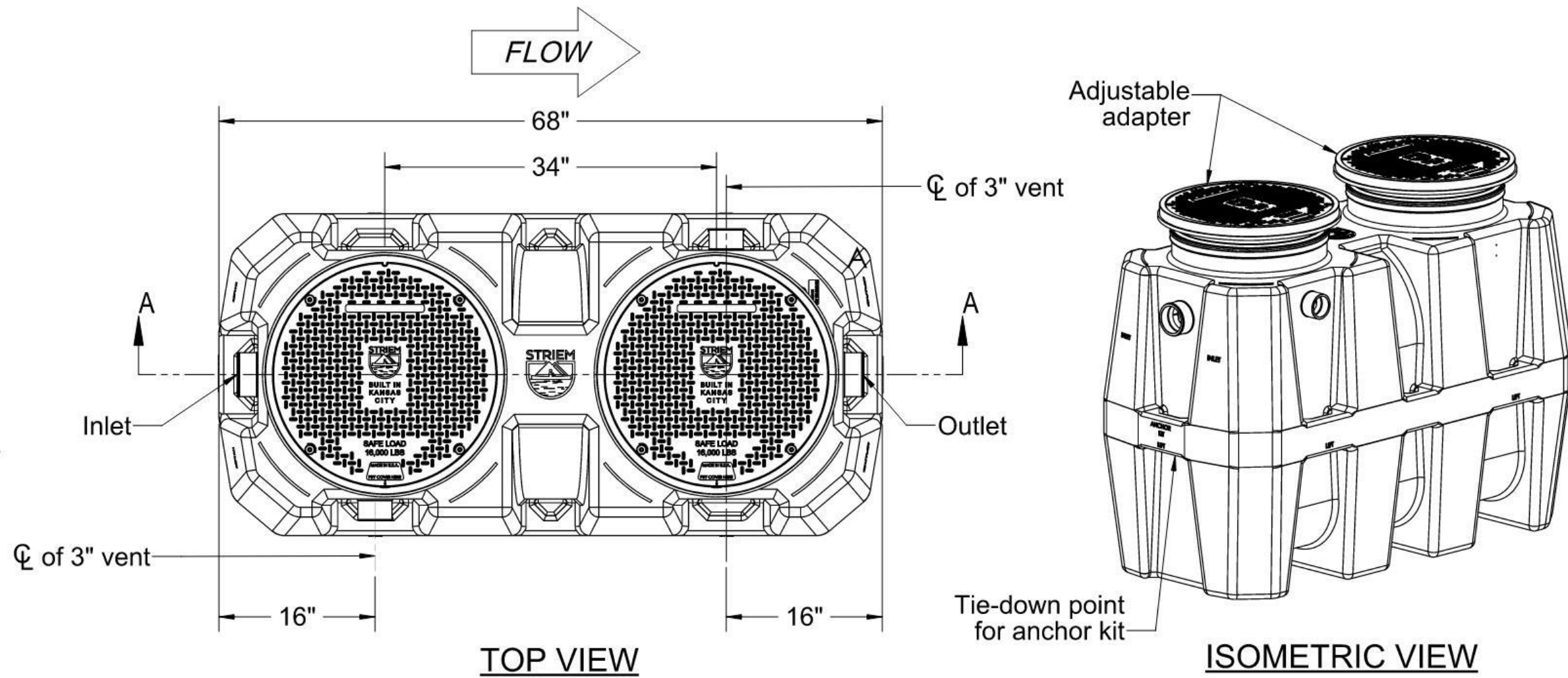
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing Media (double)*
- ☐ HDK-2 - High Water Anchor Kit

*Clean Sweep Coalescing Media not compatible with CPRK

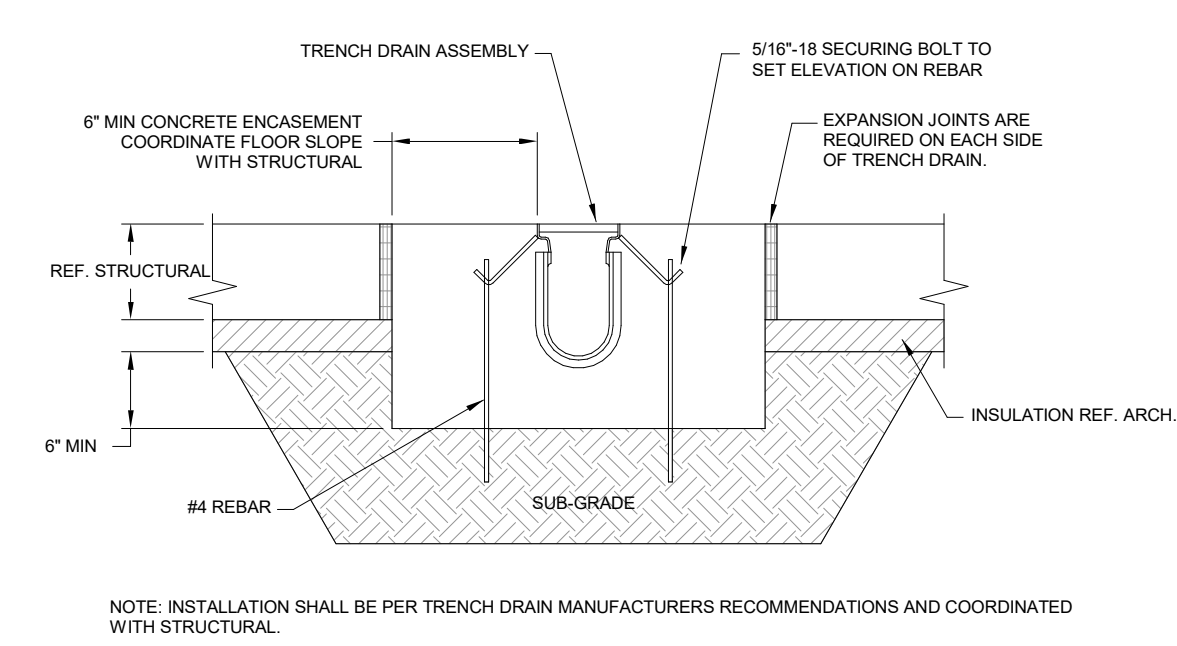
RISER OPTIONS

- ☐ SR24 (2) - >5"-24"
 - ☐ LR24 (2) - >24"-39"
 - ☐ SR24 (4) - >39"-43"
 - ☐ SR24 (2) + LR24 (2) - >43"-58"
 - ☐ LR24 (4) - >58"-72"
 - ☐ SR24 (2) + LR24 (4) - >72"-90"
- ☐ CPRK (2) : >11" - 90"
 - Corrugated Pipe Riser Kit.
 - 18" diameter corrugated pipe by others.
 - Used in substitute of SR/LR riser options
 - See CPRK specification for more detail.

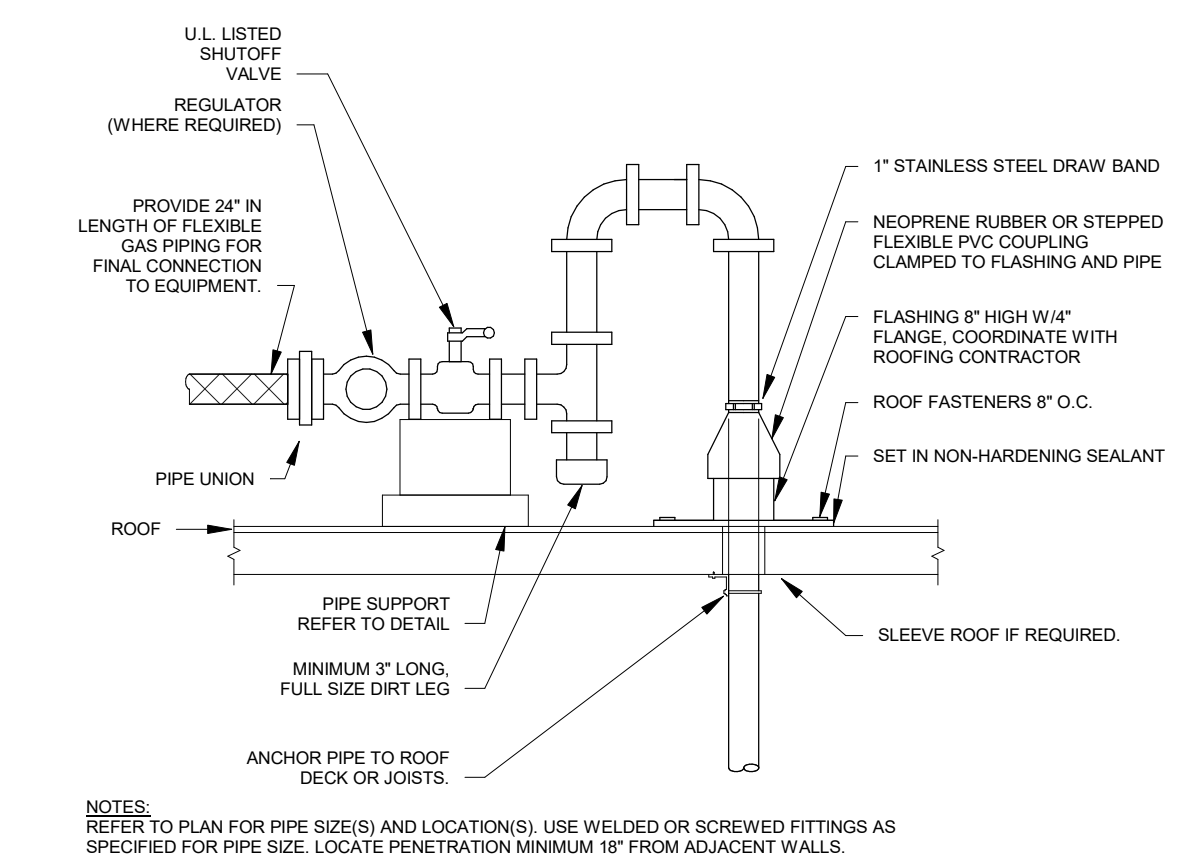
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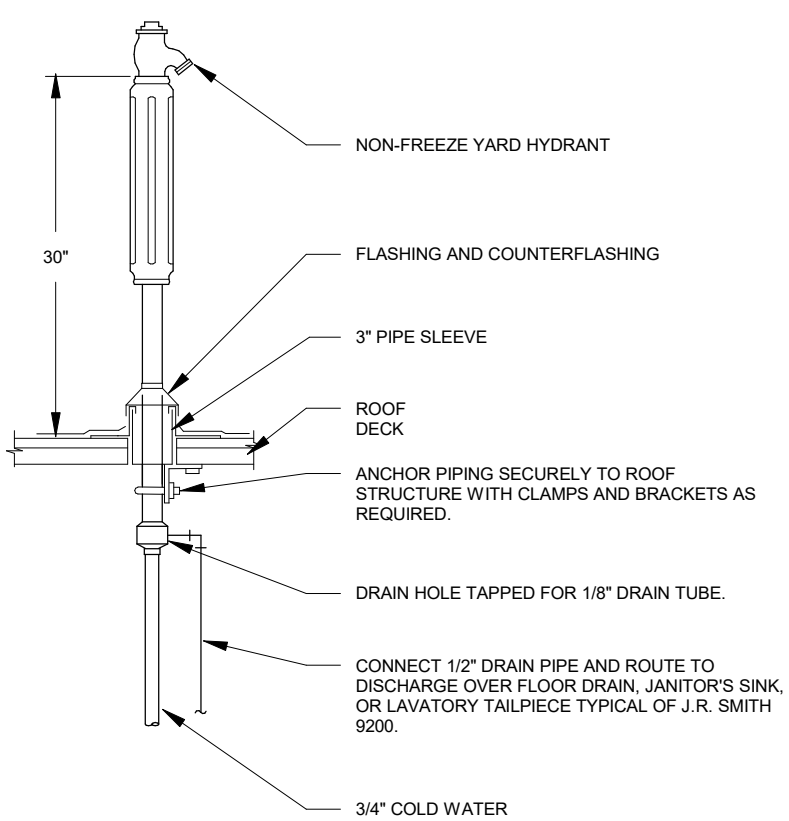
| | | | |
|---|--|--|-------------|
| MODEL NUMBER: OS-100 | | SPECIFICATION SHEET | |
| DESCRIPTION: 100 GPM POLYETHYLENE OIL/SAND SEPARATOR | | Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 orders@striemco.com www.striemco.com | |
| DWG BY: MJ | | DATE: 12/09/2020 | REV: 0 ECO: |
| | | Made in the U.S.A | |



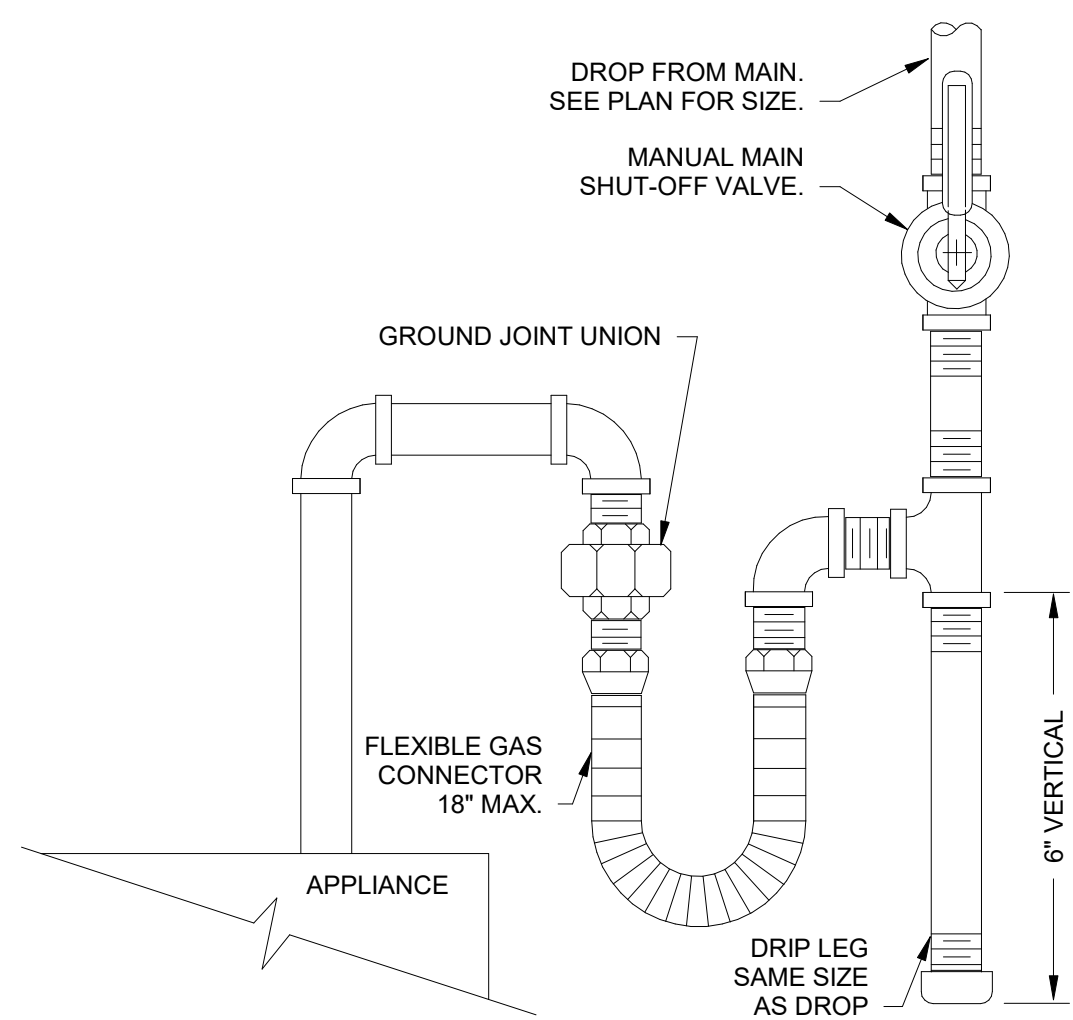
D7 TRENCH DRAIN DETAIL
NOT TO SCALE



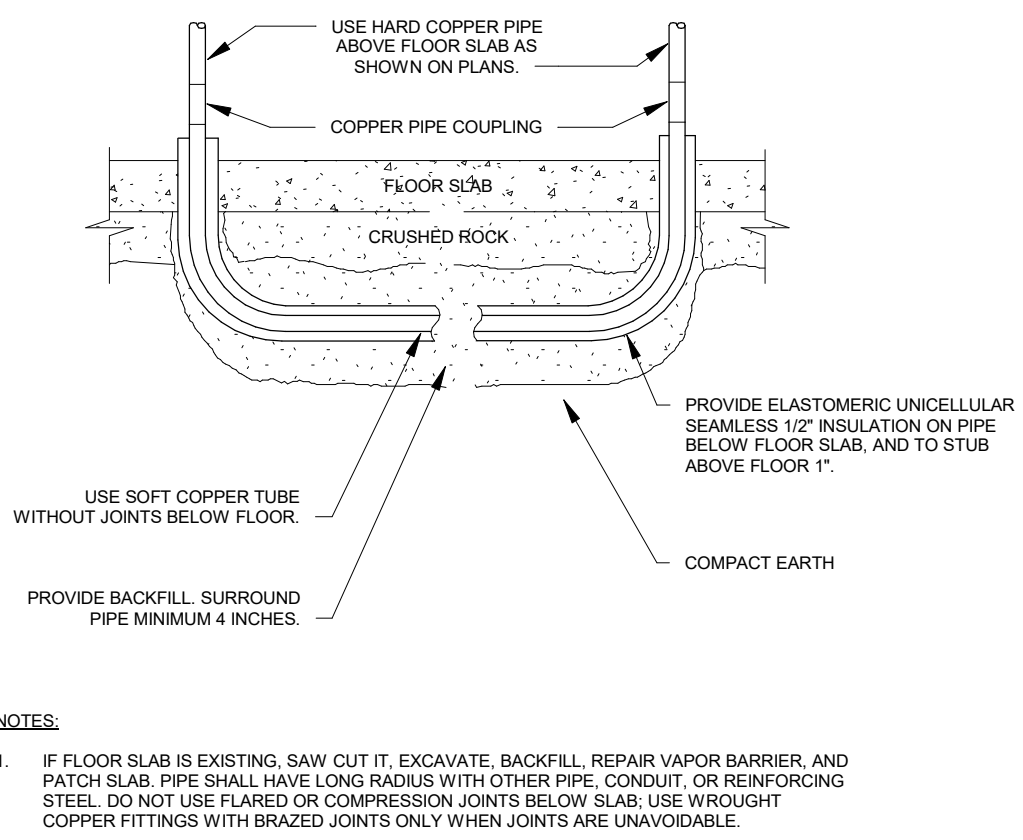
C7 GAS PIPE THRU ROOF
NOT TO SCALE



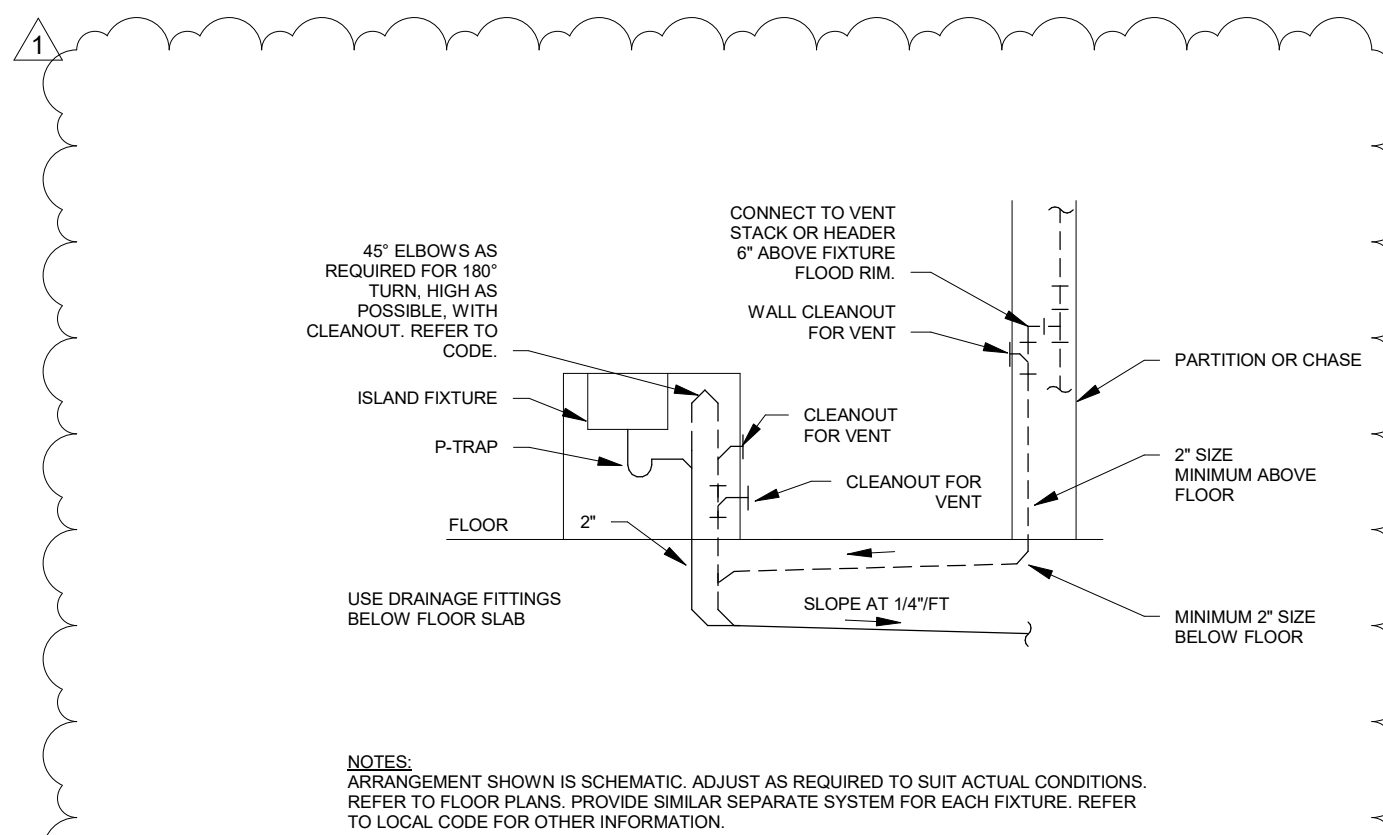
B7 ROOF HYDRANT
NOT TO SCALE



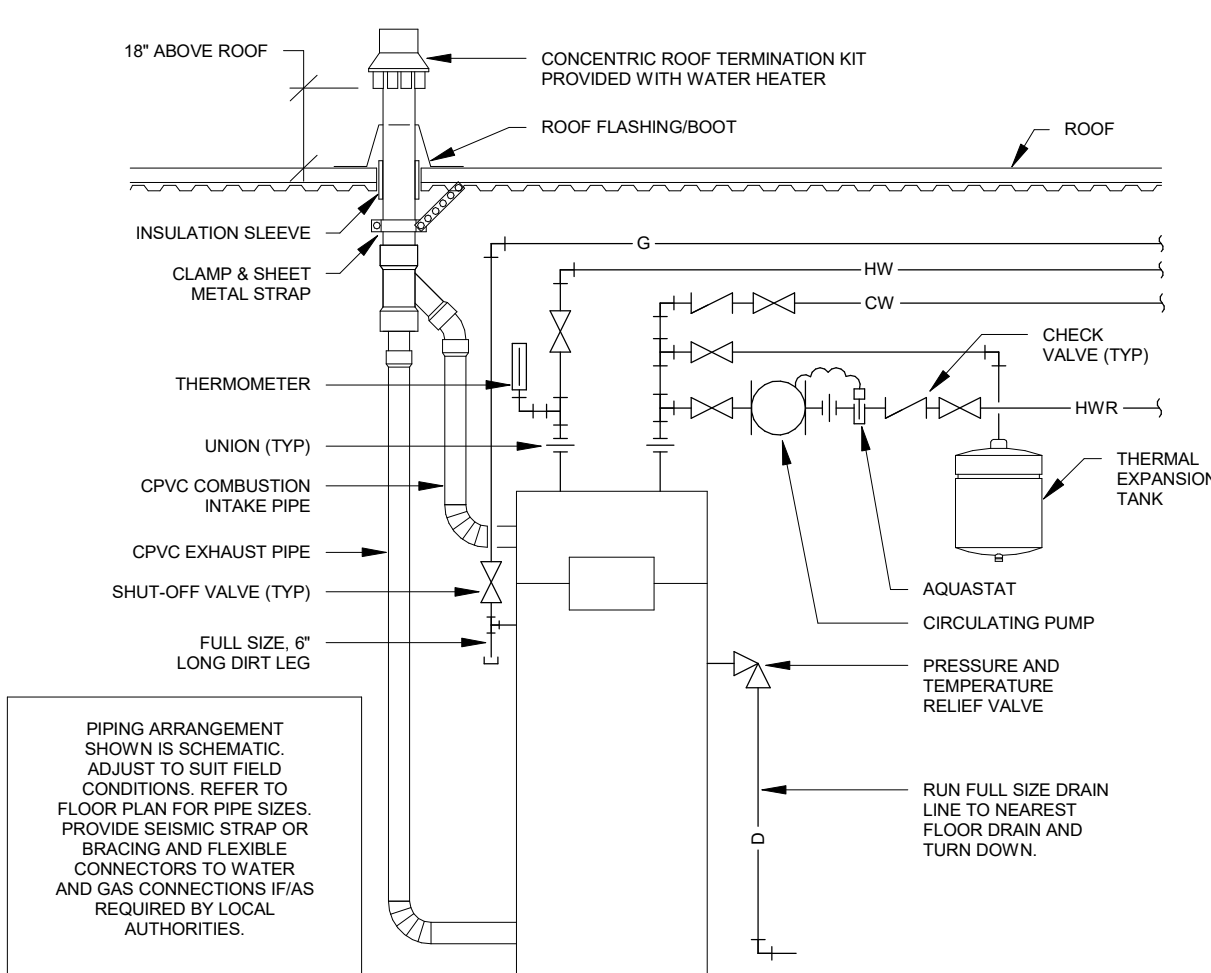
A1 GAS APPLIANCE CONNECTION DETAIL
NOT TO SCALE



A3 UNDER SLAB WATER PIPE
NOT TO SCALE



A5 ISLAND FIXTURE VENT
NOT TO SCALE



A7 GAS WATER HEATER AND HIGH EFF VENT ROOF
NOT TO SCALE

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PLUMBING DETAILS

P301

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MARK D. MAURER

E

D

C

B

A

GENERAL NOTES

| SPECIFICATION REFERENCES: | |
|---------------------------------|--|
| 1. | REFER TO DIVISION 27 SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" AND RELATED DOCUMENTS AND SECTIONS FOR PRODUCT INFORMATION AND ADDITIONAL REQUIREMENTS. |
| 2. | CATEGORY AND FIBER CABLEING SHALL BE INSTALLED, TERMINATED, AND TESTED PER DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS". |
| GENERAL PATHWAY NOTES: | |
| 1. | ALL BUILDING INFRASTRUCTURE, CONDUIT, AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, RACEWAYS, CABLE TRAYS, PEDESTALS, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, DOORS, LIDS, AND COVERS ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET. |
| 2. | REFER TO "CONDUIT ROUTING AND SEPARATION" ON THIS SHEET FOR CONDUIT SPACING INFORMATION. |
| 3. | PROVIDE CONTINUOUS UNOBSTRUCTED CABLE PATH FOR ENTIRE LENGTH OF CABLE RUN. EXPOSED CABLEING MAY REQUIRE CONDUIT TRANSITION(S) TO ACHIEVE A COMPLETE PATHWAY. |
| 4. | COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES. |
| 5. | REFER TO LIFE SAFETY PLANS FOR LOCATION OF FIRE- AND SMOKE-RATED WALLS AND FLOORS. PROVIDE LISTED FIRESTOPPING SYSTEMS FOR PENETRATIONS PER DIVISION 27 SPECIFICATION SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS". |
| BOX SCHEDULE NOTES: | |
| 1. | VERIFY QUANTITIES, LOCATIONS, AND MOUNTING WITH PLAN, DETAIL, AND EQUIPMENT VIEW DRAWINGS. |
| 2. | ALL BOXES SHOWN IN SCHEDULE ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET. |
| 3. | FIELD VERIFY MOUNTING CONDITIONS AND BOX SIZE PRIOR TO INSTALLATION. |
| 4. | WALL MOUNTED BOXES SHOWN AT SWITCH OR CONVENIENCE OUTLET HEIGHT SHALL MATCH MOUNTING HEIGHT OF ADJACENT BOXES ON WALL UNLESS OTHERWISE NOTED. |
| 5. | WALL MOUNTED TERMINATION GANG BOXES SHALL BE MOUNTED 18" A.F.F. TO CENTER OF DEVICE UNLESS OTHERWISE NOTED. |
| 6. | WALL MOUNTED TERMINATION NEMA AND MANUFACTURER SPECIFIC BOXES SHALL BE MOUNTED 16" A.F.F. TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED. |
| 7. | SURFACE MOUNTED BOXES SHALL BE PAINTED TO MATCH SURROUNDING FINISH. |
| 8. | COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES. |
| GENERAL PANEL AND PLATE NOTES: | |
| 1. | CUSTOM TERMINATION COVER PANELS AND PLATES SHALL BE PROVIDED PER SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" REQUIREMENTS AND SHALL BE SIZED TO APPROPRIATELY SELF-TRIM THEIR CORRESPONDING BACK BOX. |
| 2. | ALL PANELS AND PLATES SHALL BE 1/8" THICK (MINIMUM) BLACK ANODIZED ALUMINUM WITH ENGRAVED OR LASER ETCHED LETTERING OF A CONTRASTING COLOR. DEFAULT ENGRAVED TEXT COLOR SHALL BE WHITE. UTILIZE 3/16" UPPER CASE LETTERING, SANS-SERIF FONT. VERIFY PLATE COLOR WITH ARCHITECT. |
| 3. | REINFORCE PLATE AND/OR INCREASE PLATE THICKNESS TO MINIMIZE DEFLECTION. |
| 4. | UTILIZE COUNTERSUNK SCREW HEADS. SCREWS HEADS SHALL MATCH PLATE COLOR. |
| 5. | ANY PANEL AND PLATE DETAILS OR INFORMATION RELATED TO TERMINATION PLATING CONTAINED IN THIS SET ARE INCLUDED FOR COMMUNICATION OF FABRICATION REQUIREMENTS AND ARE FOR CONCEPT ONLY. LAYOUTS DO NOT REFLECT SPECIFIC REQUIREMENTS FOR THIS PROJECT UNLESS SPECIFICALLY STATED AS SUCH. VERIFY SIZES OF ALL COMPONENTS AND BOXES PRIOR TO SUBMITTAL OF SHOP DRAWINGS. |
| 6. | FIELD VERIFY THE SIZE OF ALL COMPONENTS AND BOXES PRIOR TO INSTALLATION. MODIFY PLATE SIZES IN THE CASE OF ALTERATIONS TO FIELD CONDITIONS. |
| 7. | REFER TO SPECIFICATIONS FOR SUBMITTAL AND ADDITIONAL PANEL AND PLATE REQUIREMENTS. |
| CABLE TERMINATION NOTES: | |
| 1. | ALL AUDIO TERMINATIONS SHOULD COMPLY WITH RANE CORPORATION RANENOTE 110 REFERENCE FOR SOUND SYSTEM INTERCONNECTION. |
| EQUIPMENT RACK NOTES: | |
| 1. | REFER TO SPECIFICATIONS FOR RACK LAYOUT SUBMITTAL REQUIREMENTS. |
| 2. | ANY RACK LAYOUTS OR INFORMATION RELATED TO EQUIPMENT RACKING CONTAINED IN THIS SET ARE FOR CONCEPT ONLY. VERIFY RACK LAYOUT FOR EQUIPMENT FURNISHED PRIOR TO SUBMITTAL OF SHOP DRAWINGS. REVISE AS REQUIRED FOR ALTERNATES ACCEPTED OR REJECTED. |
| 3. | IF THERE ARE DIFFERENCES IN EQUIPMENT RACKING INFORMATION TO THAT SHOWN ON THE SIGNAL FLOW DIAGRAMS, SIGNAL FLOWS SHALL TAKE PRECEDENCE. |
| LOUDSPEAKER INSTALLATION NOTES: | |
| 1. | ANY STRUCTURAL DETAILS, STRUCTURAL MEMBER TYPES, SIZES, AND ATTACHMENT METHODS CONTAINED IN THIS SET ARE SHOWN FOR CONCEPT ONLY. FINAL DESIGN, INCLUDING DOCUMENTATION STAMPED BY STRUCTURAL ENGINEER (PROVIDED AS PORTION OF SHOP DRAWING REQUIREMENTS), SHALL BE MADE BY THE CONTRACTOR AND SHALL BE VERIFIED BY THE OWNER AND AV CONSULTANT. |
| 2. | REFER TO SPECIFICATIONS FOR ALL MOUNTING, INSTALLATION, ACCESS, AND SHOP DRAWING REQUIREMENTS. |
| 3. | EXPOSED LOUDSPEAKER CIRCUITS UTILIZING STRUCTURAL STEEL PATHWAYS SHALL BE ROUTED HIGH WITHIN TRUSS SPACE OR WHERE OTHERWISE PROTECTED FROM DAMAGE. ROUTING SHALL MINIMIZE CIRCUIT LENGTH BETWEEN LOUDSPEAKER AND EQUIPMENT RACK WHERE FEASIBLE. NEATLY BUNDLE CIRCUITS AND FASTEN SECURELY TO STRUCTURE TO ENSURE PROPER SUPPORT AND PROTECTION. TO MINIMIZE DAMAGE FROM TEMPORARY RIGGING ACTIVITIES ASSOCIATED WITH SPECIAL EVENT SUPPORT, AVOID ROUTING CIRCUITS IN AREAS PRONE TO THIS USE, I.E. BOTTOM CHORDS OF TRUSSES. AVOID CONTACT OR CONFLICT WITH OTHER BUILDING ELEMENTS SUCH AS LIGHTING FIXTURES & BALLASTS, DUCTS, RIGGING, AND SHARP EDGES. CABLE COLOR SHALL MATCH SURROUNDING ELEMENTS. |

CONDUIT/CIRCUIT GROUP DIVISIONS

| GROUP | DESCRIPTIONS | LEVEL | BANDWIDTH |
|-------|---|---|------------------------------------|
| A | CONTROL CIRCUITS DATA CIRCUITS FIBER CIRCUITS | 0-28 VOLT INTO <50 KOHMS 2 VOLT PEAK-TO-PEAK INTO 100 OHMS | 0 Hz TO 250 MHz 0 Hz TO 500 MHz |
| L | LINE LEVEL AUDIO CIRCUITS | -30dBu TO +24dBu | 20 Hz TO 20kHz |
| M | MICROPHONE LEVEL AUDIO CIRCUITS | BELOW -30dBu | 20 Hz TO 20kHz |
| P | PRODUCTION INTERCOM COMMUNICATION CIRCUITS | -30dBu TO +24dBu | 20 Hz TO 20kHz |
| S | SPEAKER LEVEL AUDIO CIRCUITS INCLUDING BOTH LOW IMPEDANCE AND HIGH IMPEDANCE (70 VOLT) TYPES | GREATER THAN +24dBu | 20 Hz TO 20kHz |
| V | VIDEO CIRCUITS | 1 VOLT PEAK-TO-PEAK INTO 75 OHMS | 0 Hz TO 250 MHz |
| W | RF LEVEL CIRCUITS INCLUDING WIRELESS MICROPHONE, ANTENNA CABLE, SATELLITE, ASSISTED LISTENING SYSTEM, AND TV DISTRIBUTION | GREATER THAN +24dBu | 5 MHz TO 3GHz |

CONDUIT ROUTING AND SEPARATION

BOTH EMT

| EMT | RIGID | M | L, P | W | S | V |
|-------------------------|-------|----------|----------|----------|----------|----------|
| M | - | ADJACENT | 6" | 12" | 12" | 12" |
| L, P | - | 6" | ADJACENT | 12" | 12" | 6" |
| W | - | 12" | 12" | ADJACENT | ADJACENT | 6" |
| S | - | 12" | 12" | ADJACENT | ADJACENT | 6" |
| V | - | 12" | 6" | 6" | 6" | ADJACENT |
| POWER CONDUIT UNDER 60A | | 24" | 24" | 24" | 24" | 24" |
| POWER CONDUIT 60A | | 36" | 36" | 36" | 36" | 36" |
| POWER CONDUIT 120A | | 48" | 48" | 48" | 48" | 48" |
| POWER CONDUIT 240A | | - | RIGID | RIGID | RIGID | RIGID |
| POWER CONDUIT 400A | | - | RIGID | RIGID | RIGID | RIGID |

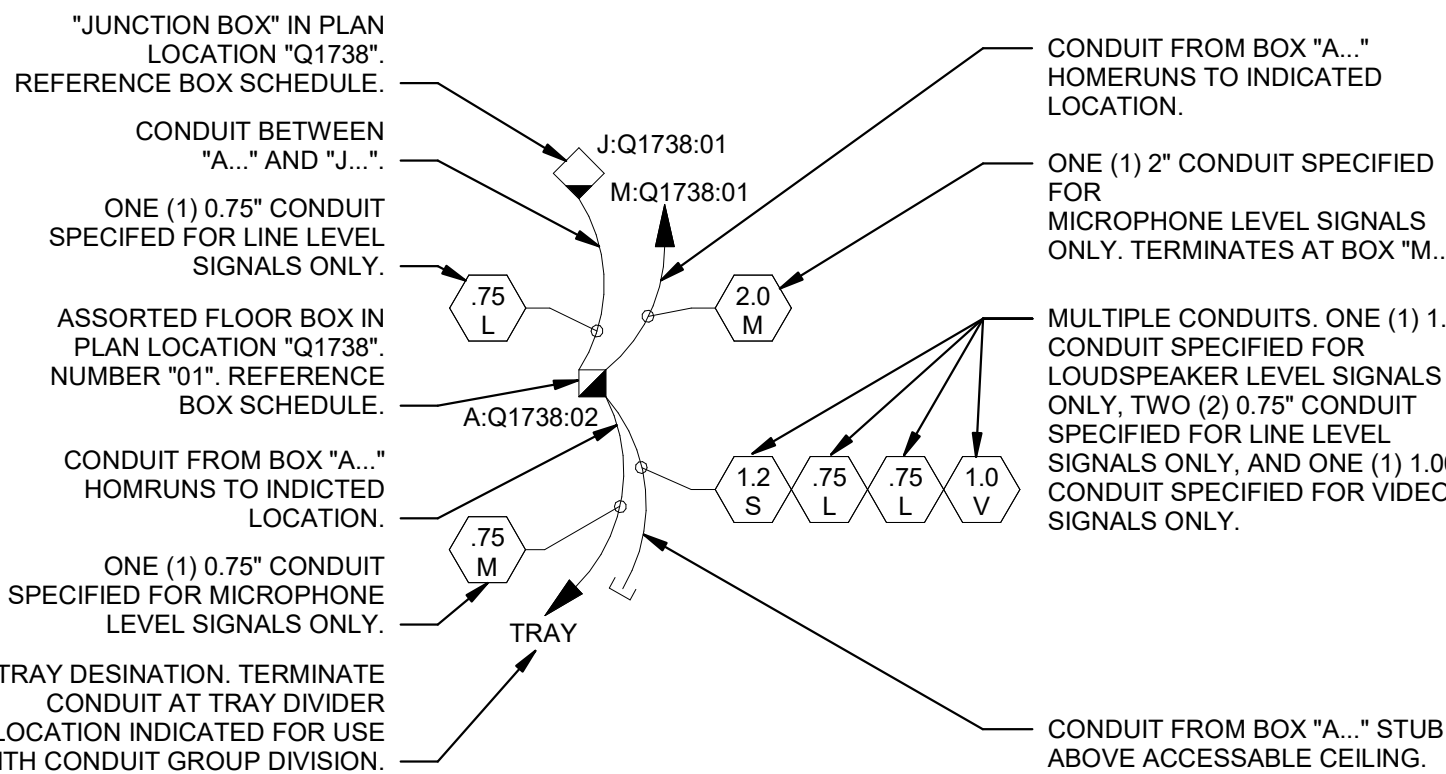
POWER IN RIGID

| EMT | RIGID | M | L, P | W | S | V |
|------|-------------------------|----------|----------|----------|----------|----------|
| M | - | ADJACENT | 6" | 12" | 12" | 12" |
| L, P | - | 6" | ADJACENT | 12" | 12" | 6" |
| W | - | 12" | 12" | ADJACENT | ADJACENT | 6" |
| S | - | 12" | 12" | ADJACENT | ADJACENT | 6" |
| V | - | 12" | 6" | 6" | 6" | ADJACENT |
| - | POWER CONDUIT UNDER 60A | 4" | 4" | 4" | 4" | 4" |
| - | POWER CONDUIT 60A | 8" | 8" | 8" | 8" | 8" |
| - | POWER CONDUIT 120A | 12" | 12" | 12" | 12" | 12" |
| - | POWER CONDUIT 240A | 24" | 24" | 24" | 24" | 24" |
| - | POWER CONDUIT 400A | 48" | 48" | 48" | 48" | 48" |

BOTH IN RIGID

| EMT | RIGID | M | L, P | W | S | V |
|-----|-------------------------|----------|----------|----------|----------|----------|
| - | M | ADJACENT | ADJACENT | ADJACENT | ADJACENT | ADJACENT |
| - | L, P | ADJACENT | ADJACENT | ADJACENT | ADJACENT | ADJACENT |
| - | W | ADJACENT | ADJACENT | ADJACENT | ADJACENT | ADJACENT |
| - | S | ADJACENT | ADJACENT | ADJACENT | ADJACENT | ADJACENT |
| - | V | ADJACENT | ADJACENT | ADJACENT | ADJACENT | ADJACENT |
| - | POWER CONDUIT UNDER 60A | 1" | 1" | 1" | 1" | 1" |
| - | POWER CONDUIT 60A | 2" | 2" | 2" | 2" | 2" |
| - | POWER CONDUIT 120A | 4" | 4" | 4" | 4" | 4" |
| - | POWER CONDUIT 240A | 8" | 8" | 8" | 8" | 8" |
| - | POWER CONDUIT 400A | 16" | 16" | 16" | 16" | 16" |

PLAN BOX & CONDUIT EXAMPLE



NOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.

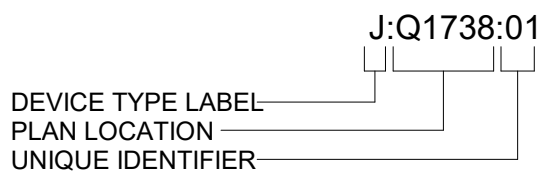
PLAN LEGEND

| BOX AND PLAN SYMBOLS | |
|---|--|
| | WALL BOX. "X" INDICATES FUNCTION OF BOX (REFER TO BOX LABEL LEGEND). "##" INDICATES BOX DESIGNATION. |
| | FLOOR BOX. SIMILAR TO ABOVE. |
| | POKE THRU. SIMILAR TO ABOVE. |
| | CEILING MOUNTED BOX. SIMILAR TO ABOVE. |
| | FLUSH MOUNTED CEILING LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION. |
| | PENDANT MOUNTED LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION. |
| | CEILING MOUNTED MICROPHONE. SIMILAR TO ABOVE. NO BACK BOX. |
| | CEILING MOUNTED CAMERA. SIMILAR TO ABOVE. NO BACK BOX. |
| TYPICAL BOX SYMBOLS | |
| | WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES. |
| | FLOOR BOX. CEILING BOX. SIMILAR TO ABOVE. "YY" INDICATES SYMBOL TYPE. "F#" INDICATES UNIQUE IDENTIFIER. |
| CONDUIT LEGEND | |
| | INDICATES ASSORTED SIGNALS ONLY. "A" SPECIFIES SIZE OF CONDUIT. |
| | INDICATES LINE LEVEL SIGNALS ONLY. "L" SPECIFIES SIZE OF CONDUIT. |
| | INDICATES MICROPHONE LEVEL SIGNALS ONLY. "M" SPECIFIES SIZE OF CONDUIT. |
| | INDICATES PRODUCTION INTERCOM LEVEL SIGNALS ONLY. "P" SPECIFIES SIZE OF CONDUIT. |
| | INDICATES LOUDSPEAKER LEVEL SIGNALS ONLY. "S" SPECIFIES SIZE OF CONDUIT. |
| | INDICATES VIDEO SIGNALS ONLY. "V" SPECIFIES SIZE OF CONDUIT. |
| | INDICATES WIRELESS/RF SIGNALS ONLY. "W" SPECIFIES SIZE OF CONDUIT. |
| | 0.75" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | 1" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | 1.25" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | 1.5" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | 2" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | 2.5" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | 3" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE. |
| | CONDUIT PATH. |
| | CONDUIT PATH CONTINUES ON TO DESTINATION AS INDICATED. |
| | CONDUIT STUB TO ACCESSIBLE PORTION OF CEILING. BUSH CONDUIT ENDS. |
| | CONDUIT STUB TO BELOW RAISED FLOOR IF PRESENT, OTHERWISE BELOW FLOOR SLAB. BUSH CONDUIT ENDS. |
| | CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION |
| | EXPOSED CABLE PATH. NO CONDUIT. |
| | CABLE TRAY. SIZE AS INDICATED ON PLANS. |
| REFER TO BOX SCHEDULE FOR ADDITIONAL INFORMATION. | |

LABEL LEGEND

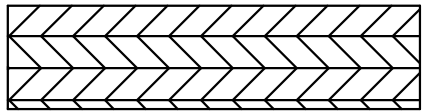
| | |
|----|-------------------------|
| A | ASSORTED |
| B | BROADCAST |
| C | CONTROL |
| D | DSS SATELLITE |
| E | EXISTING |
| F | FUTURE / BY OTHERS |
| G | GAME CLOCK |
| J | JUNCTION / PULL BOX |
| K | CAMERA |
| L | LINE-LEVEL AUDIO |
| M | MICROPHONE-LEVEL AUDIO |
| P | PRODUCTION INTERCOM |
| R | EQUIPMENT RACK |
| S | LOUDSPEAKER-LEVEL AUDIO |
| T | TELEVISION DISTRIBUTION |
| V | VIDEO |
| W | WIRELESS / RF |
| DS | DIGITAL SIGNAGE |
| DV | DIRECT VIEW LED |
| FP | FLAT PANEL DISPLAY |
| LS | LOUDSPEAKER |
| PR | PROJECTOR |
| PS | PROJECTION SCREEN |
| TV | TELEVISION |
| VW | VIDEO WALL |

LABEL STANDARD

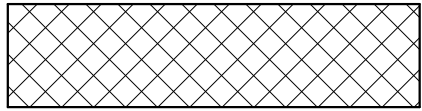


CALL OUTS

ENLARGED PLAN CALLOUT



NOT IN SCOPE



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LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

| # | Description | Date |
|---|-------------|------|
|---|-------------|------|



10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

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AUDIO-VIDEO
GENERAL NOTES

TA000

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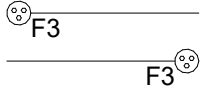
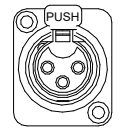

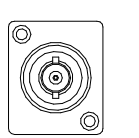
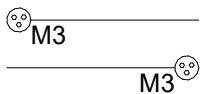
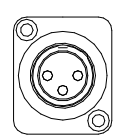
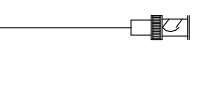

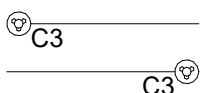
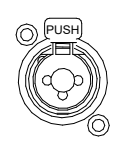


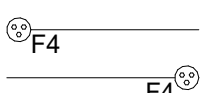
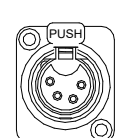
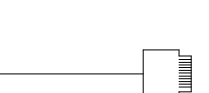

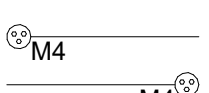
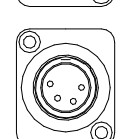

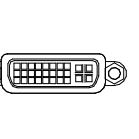
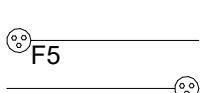
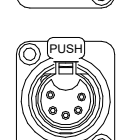
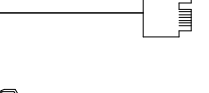
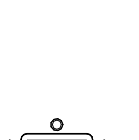
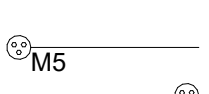
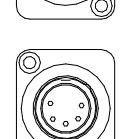


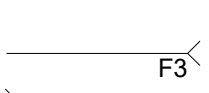
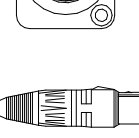

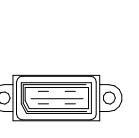
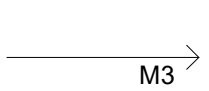
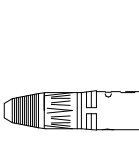
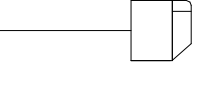


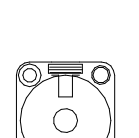

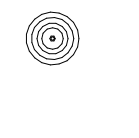

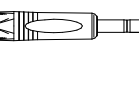

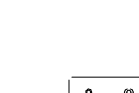

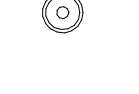






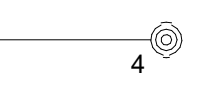
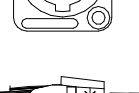

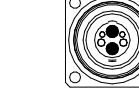
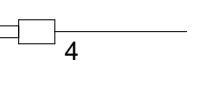


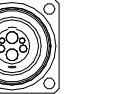
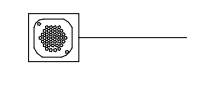



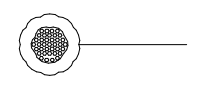








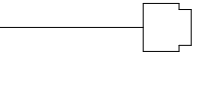

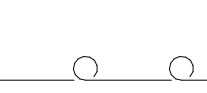
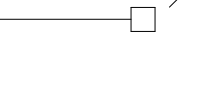
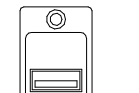





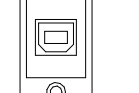


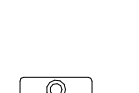


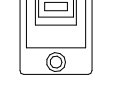
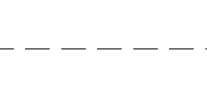
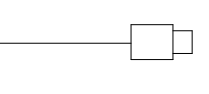

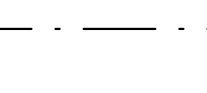


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B

A

AUDIO-VIDEO SYMBOLS

| AUDIO | | | VIDEO | | |
|---|---|---|---|---|---|
| SIGNAL FLOW | PANEL/PLATE | DESCRIPTION | SIGNAL FLOW | PANEL/PLATE | DESCRIPTION |
|  |  | FEMALE 3-PIN XLR PANEL MOUNT CONNECTOR |  |  | BNC PANEL MOUNT CONNECTOR |
|  |  | MALE 3-PIN XLR PANEL MOUNT CONNECTOR |  |  | CABLE END BNC CONNECTOR |
|  |  | FEMALE COMBO 3-PIN XLR AND 1/4" PANEL MOUNT CONNECTOR |  |  | 75 OHM BNC TERMINATOR |
|  |  | FEMALE 4-PIN XLR PANEL MOUNT CONNECTOR |  |  | RGBHV HD-15 PANEL MOUNT CONNECTOR |
|  |  | MALE 4-PIN XLR PANEL MOUNT CONNECTOR |  |  | RGBHV HD-15 CABLE MOUNT CONNECTOR |
|  |  | FEMALE 5-PIN XLR PANEL MOUNT CONNECTOR |  |  | DVI PANEL MOUNT CONNECTOR |
|  |  | MALE 5-PIN XLR PANEL MOUNT CONNECTOR |  |  | DVI CABLE MOUNT CONNECTOR |
|  |  | FEMALE XLR CABLE MOUNT CONNECTOR (NUMBER BELOW SYMBOL INDICATES NUMBER OF PINS) |  |  | HDMI PANEL MOUNT CONNECTOR |
|  |  | MALE XLR CABLE MOUNT CONNECTOR (NUMBER BELOW SYMBOL INDICATES NUMBER OF PINS) |  |  | HDMI CABLE MOUNT CONNECTOR |
|  |  | 1/4" 3-CONDUCTOR PANEL MOUNT CONNECTOR |  |  | DISPLAYPORT PANEL MOUNT CONNECTOR |
|  |  | 1/4" 3-CONDUCTOR CABLE MOUNT CONNECTOR |  |  | DISPLAYPORT CABLE MOUNT CONNECTOR |
|  |  | 1/8" 3-CONDUCTOR MINI PANEL MOUNT CONNECTOR |  |  | F-STYLE RF PANEL MOUNT CONNECTOR |
|  |  | 1/8" 3-CONDUCTOR MINI CABLE MOUNT CONNECTOR |  |  | F-STYLE RF CABLE MOUNT CONNECTOR |
|  |  | SPEAKON JACK, 2-CONDUCTOR BLANK, 4-CONDUCTOR SHOWN |  |  | VIDEO PATCH PANEL JACK |
|  |  | SPEAKON PLUG, SIMILAR TO ABOVE |  |  | TRIAx MALE |
|  |  | MALE DT12 PANEL MOUNT CONNECTOR |  |  | TRIAx FEMALE |
|  |  | FEMALE DT12 PANEL MOUNT CONNECTOR |  |  | SMPTE 304 MALE |
| | | |  |  | SMPTE 304 FEMALE |
| CONTROL | | | DEVICES AND CONNECTIONS | | |
| SIGNAL FLOW | PANEL/PLATE | DESCRIPTION | SIGNAL FLOW | | DESCRIPTION |
|  |  | COM (DB-9) PANEL MOUNT CONNECTOR |  | | CONNECTION TO CHASSIS GROUND |
|  |  | COM (DB-9) CABLE MOUNT CONNECTOR |  | | RUBBER JACKETED EXTENSION CABLE |
|  |  | IR EMITTER |  | | PARALLEL CONNECTION OR CHANGE IN WIRE TYPE |
|  |  | USB TYPE A PANEL MOUNT CONNECTOR |  | | ANTENNA |
|  |  | USB TYPE A CABLE MOUNT CONNECTOR |  | | PATCH POINT, CONNECT TO PATCH PANEL PER SPECIFICATION REQUIREMENTS |
|  |  | USB TYPE B PANEL MOUNT CONNECTOR |  | | CONNECTION BUBBLE UPPER DESIGNATION REFERS TO CONNECTION LABEL LOWER DESIGNATION REFERS TO THE SHEET NUMBER ON WHICH THE CONNECTION IS CONTINUED. |
|  |  | USB TYPE B CABLE MOUNT CONNECTOR |  | | EQUIPMENT / TERMINATIONS WITHIN A COMMON LOCATION AS LABELED. |
|  |  | USB TYPE C PANEL MOUNT CONNECTOR |  | | ALTERNATE OUTLINE |
|  |  | USB TYPE C CABLE MOUNT CONNECTOR | | | |
| NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE. | | | | | |
| CALL OUTS | | | | | |
| ENLARGED PLAN CALLOUT | | | | | |
| NOT IN SCOPE | | | | | |

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

WIRE TYPE AND ABBREVIATIONS

| (NOTE 1) | ABBREVIATION DEFINITION OR SIGNAL TYPES | WIRE TYPE | (NOTE 2) |
|--|--|---------------|----------|
| AB | AUDIO TRANSPORT OVER MANUF. PROPRIETARY (NON-IP) PROTO. - REQ. STP | CAT6 STP | 90m |
| AEC | ACOUSTIC ECHO CANCELING SIGNAL | - | - |
| AES | DIGITAL AUDIO OVER AES FORMAT - BALANCED UNBALANCED | 22 AWG | 100m |
| AN | AUDIO TRANSPORT OVER IP STANDARD PROTOCOL REQUIRING STP | RG-6 | 1000m |
| CC | RELAY OR CONTACT CLOSURE CONTROL SIGNAL | CAT6 STP | 90m |
| Com | CONTROL SIGNAL (RS232, RS422, RS485) | 22 AWG | |
| Cii | CONTROL SIGNAL OVER MANUF. PROPRIETARY PROTOCOL | (NOTE 3) | |
| D | DVI VIDEO SIGNAL | PREMADE | 25' |
| DM | DIGITAL MEDIA AUDIO/VIDEO/CONTROL SIGNAL | CAT6 STP | 90m |
| DP | DISPLAY PORT SIGNAL | PREMADE | 3m |
| FW | FIREWIRE IEEE 1394 | PREMADE | 4.5m |
| GPIO | GPIO/GPO/GPIO - GENERAL PURPOSE INPUT AND/OR OUTPUT | (NOTE 4) | |
| H | HDMI VIDEO/AUDIO SIGNAL | (NOTE 3) | |
| HOSDI | HD-SDI PER SMPTE 292M | RG-59 | 300' |
| | | RG-6 | 370' |
| | | RG-11 | 580' |
| IC | INTERCOM (PRODUCTION) | 22 AWG | |
| IR | INFRARED CONTROL SIGNAL | PREMADE | |
| I/O | VARIABLE VOLTAGE CONTROL SIGNAL | 22 AWG | |
| L | LINE LEVEL AUDIO SIGNAL | 22 AWG | |
| LAN | ETHERNET | CAT6 | 90m |
| LS | LOUDSPEAKER LEVEL AUDIO SIGNAL 2/4/8/16OHM | (NOTE 5) | |
| LS70 | LOUDSPEAKER LEVEL AUDIO SIGNAL 70V | (NOTE 5) | |
| M | MICROPHONE LEVEL AUDIO SIGNAL | 22 AWG | |
| MADI | MADI SIGNAL PROTOCOL | RG-6 | 100m |
| | | SMF | 40km |
| MIDI | MIDI CONTROL SIGNAL | PREMADE | |
| MMF | MULTI-MODE FIBER | (NOTE 3) | |
| Mono | MONO AUDIO SIGNAL | 22 AWG | |
| Phone | TELEPHONE SIGNAL | CAT3 | |
| R | RGBHV VIDEO SIGNAL | PREMADE | 25' |
| Ref | REFERENCE/SYNC/BLACK - BLACK BURST OR TRI-LEVEL SYNCHRONIZATION | RG-59 | |
| RF | RADIO FREQUENCY | RG-59 | IN RACK |
| | RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP) | RG-6X | 40' |
| | RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP) | RG-213 | 65' |
| | RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP) | RG-8/U | 120' |
| SAT IF | SATELLITE INTERMEDIATE FREQUENCY SIGNAL (TYPICALLY L-BAND) | RG-59 | IN RACK |
| | | RG-6 | DROP |
| | | RG-11 | DISTRO |
| SDI | SERIAL DIGITAL INTERFACE PER SMPTE 259M | PREMADE | 950' |
| | | RG-6 | 1150' |
| | | RG-11 | 1850' |
| SMF | SINGLE-MODE FIBER | (NOTE 3) | 2.5Km |
| SPDIF | DIGITAL AUDIO OVER S/PDIF | PREMADE | 10m |
| St | STEREO AUDIO SIGNAL | PREMADE | 5m |
| | | 22 AWG | |
| TLY | TALLY | 24 AWG | |
| TB | THUNDERBOLT SIGNAL | PREMADE | 3m |
| TC | TIMECODE | RG-59 | |
| TIE LINES | MICROPHONE LEVEL | 22 AWG | |
| | LINE LEVEL | 22 AWG | |
| | LOUDSPEAKER LEVEL | (NOTE 4) | |
| | VIDEO | (NOTE 4) | |
| TPA | AUDIO SIGNAL OVER TWISTED PAIR | CAT6 | 90m |
| TPC | CONTROL SIGNAL OVER TWISTED PAIR | CAT6 | 90m |
| TPT | TELEVISION SIGNAL OVER TWISTED PAIR | CAT6 | 90m |
| TPV | VIDEO SIGNAL OVER TWISTED PAIR | CAT6 | 90m |
| TRIAx | TRIAx VIDEO CAMERA CABLE | RG-59/U | IN ROOM |
| | | RG-11/U | 2950' |
| TV | CABLE TELEVISION DISTRIBUTION SIGNAL | RG-59 | IN RACK |
| | | RG-6 | DROP |
| | | RG-11 | DISTRO |
| | | 1/2" HARDLINE | TRUNK |
| USB | UNIVERSAL SERIAL BUS SIGNAL | PREMADE | |
| USB1 | USB VERSION 1.0 | PREMADE | 5m |
| USB2 | USB VERSION 2.0 | PREMADE | 5m |
| USB3 | USB VERSION 3.0 | PREMADE | 5m |
| V | COMPOSITE VIDEO SIGNAL | RG-59 | 750' |
| | | RG-6 | 900' |
| | | RG-11 | 1200' |
| | | RG-59 | 125' |
| | | RG-6 | 200' |
| | | RG-59 | 200' |
| | | RG-6 | 250' |
| | | RG-11 | 390' |
| | | (NOTE 4) | |
| Y | COMPONENT VIDEO SIGNAL | | |
| 3GSDI | 3G-SDI PER SMPTE 424M | | |
| 6GSDI | 6G-SDI | | |
| * | DENOTES PORTION OF ITEM | | |
| NOTES | | | |
| COMPLY WITH ALL MANUFACTURER REQUIREMENTS. | | | |
| 1 SIGNAL FLOW SIGNAL TYPE ABBREVIATION. | | | |
| 2 CABLE DISTANCE LIMITATION. CONTACT CONSULTANT FOR CONDITIONS OUTSIDE PARAMETERS. | | | |
| 3 REFER TO SPECIFICATION FOR WIRE TYPE. | | | |
| 4 REFER TO SIGNAL FLOWS FOR WIRE TYPE. | | | |
| 5 REFER TO SCHEDULES FOR WIRE TYPE. | | | |
| SIGNAL FLOW BLOCK LEGEND | | | |
| <div><div>Block Description</div><div><div>Y/S/V 1</div><div>M/L 1</div><div>Y/S/V 2</div><div>M/L 2</div><div>R/Y 3</div><div>St 1</div><div>R/Y 4</div><div>St 2</div><div>R/Y 5</div><div>St 3</div><div>DM 1</div><div>DM 2</div><div>USB</div><div>IR In</div><div>IO</div><div>IO</div><div>LAN</div></div><div><div>Y/S/V 1/2</div><div>St 1</div><div>Y/S/V 3</div><div>St 2</div><div>R/Y/S/V 4</div><div>St 3</div><div>DM 5</div><div>DM 6</div><div>DM 7</div><div>Cont Net</div><div>LS L</div><div>LS R</div><div>Com A</div><div>Com B</div><div>IR A</div><div>IR B</div><div>CC 1</div></div></div> <div><div>VARIES PER DEVICE</div><div>↑</div><div>↓</div></div> <div><div>SPECIFICATION REFERENCE</div><div>DEVICE IDENTIFICATION AND LABEL</div><div>SIGNAL TYPE (TYPICAL) SEE WIRE TYPE AND ABBREVIATIONS SCHEDULE</div><div>PRODUCT REFLECTING BASIS OF DESIGN</div></div> | | | |



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DATE: 10.26.2022
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CHK'D BY: M.MAURER

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AUDIO-VIDEO
GENERAL
SYMBOLS

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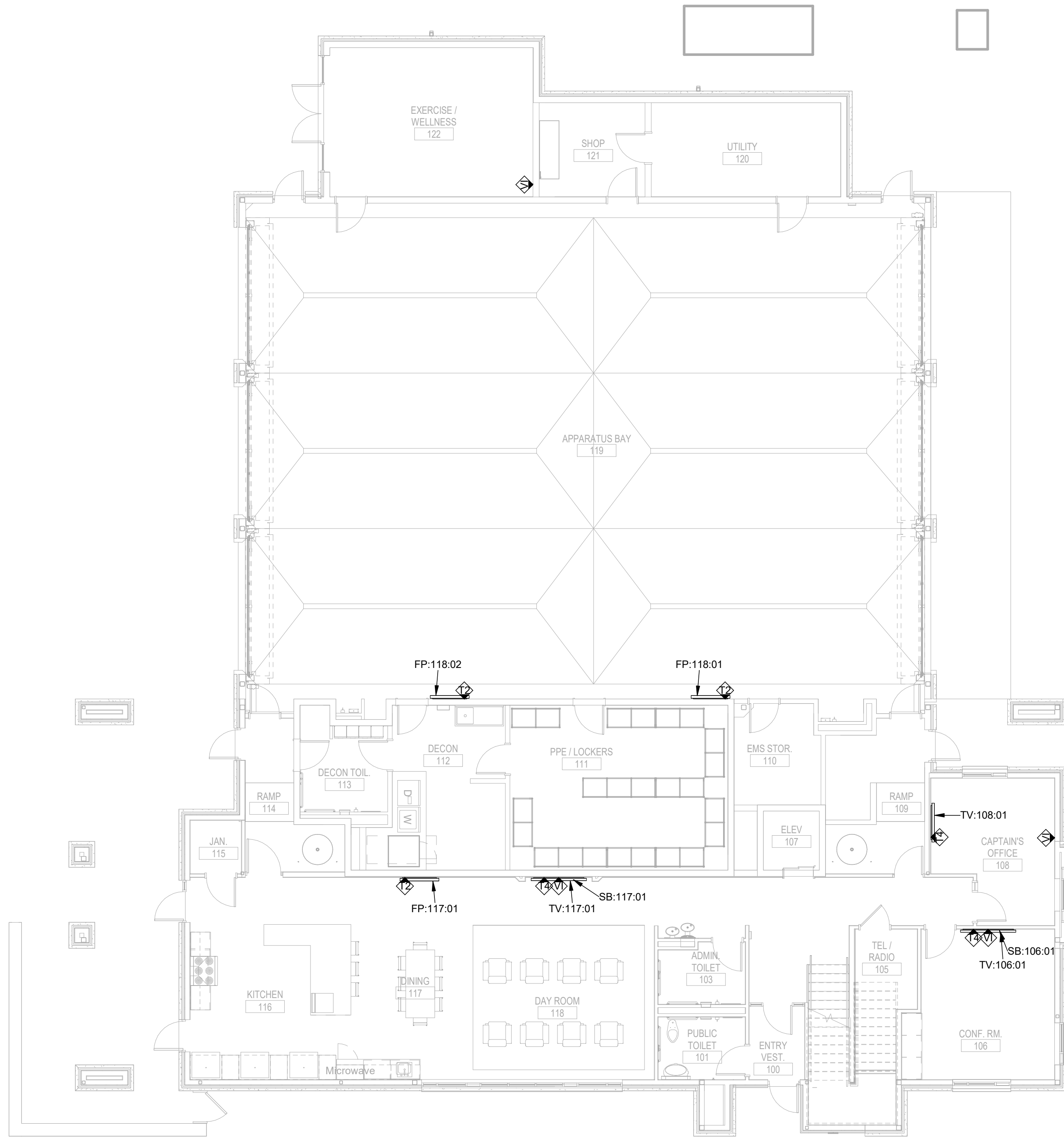
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A



A1 AUDIO VIDEO LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH

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NUMBER E-28923
10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.ROSE
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AUDIO-VIDEO
LEVEL 1 PLAN

TA101

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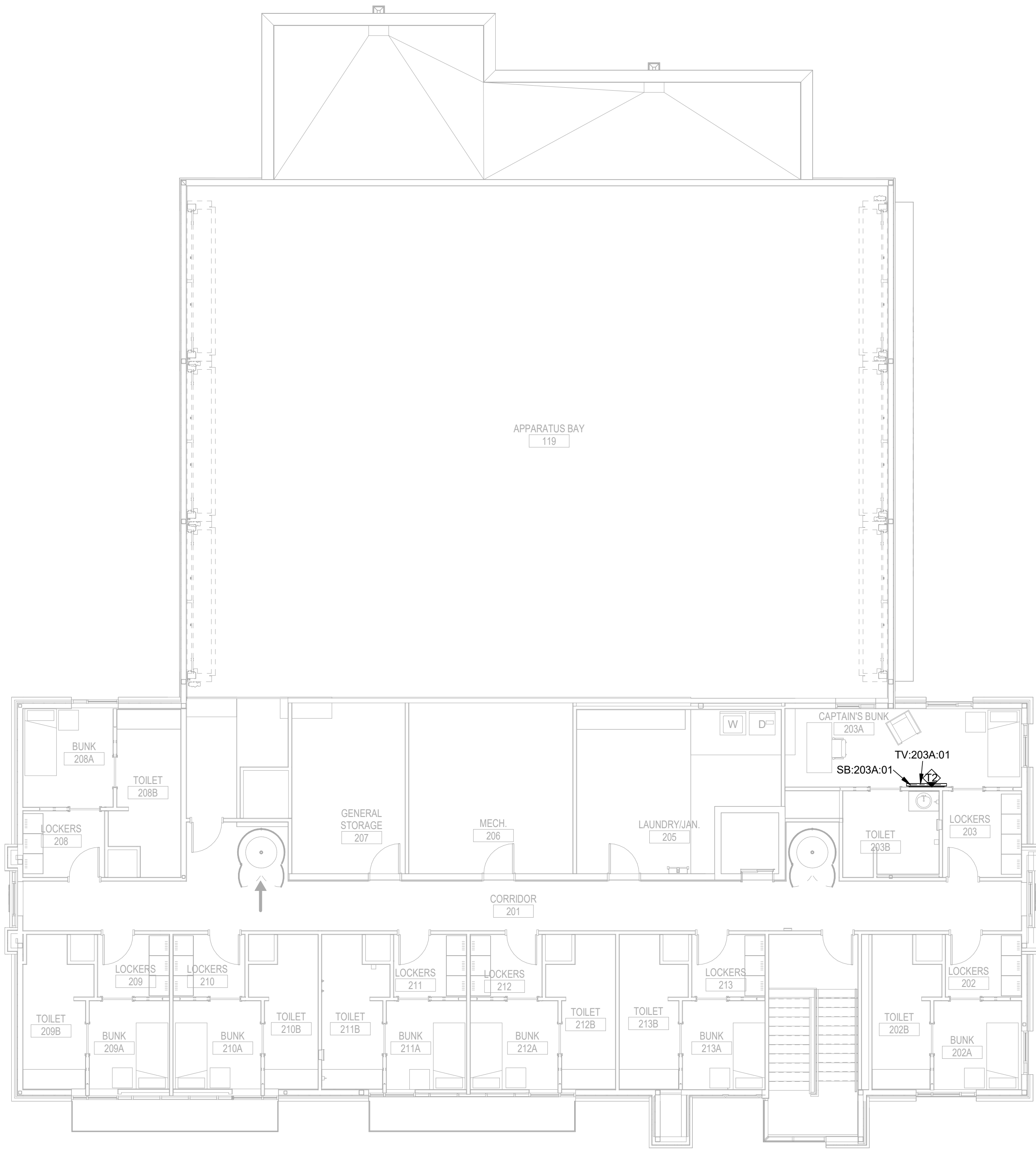
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A1 AUDIO VIDEO LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH

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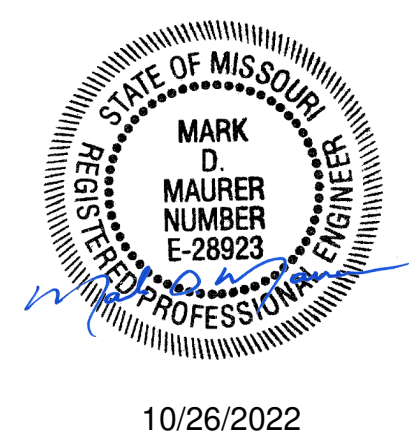
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AUDIO-VIDEO
LEVEL 2 PLAN

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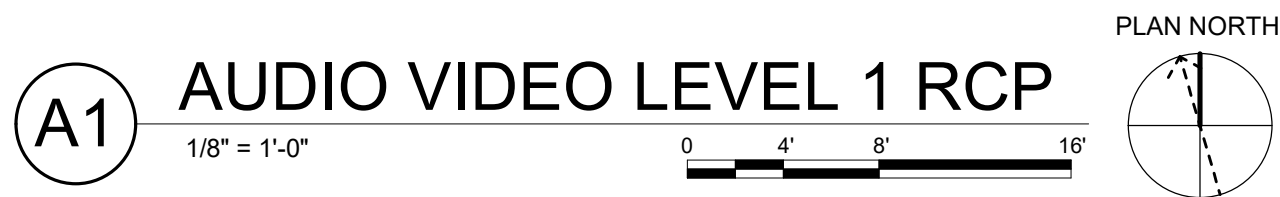
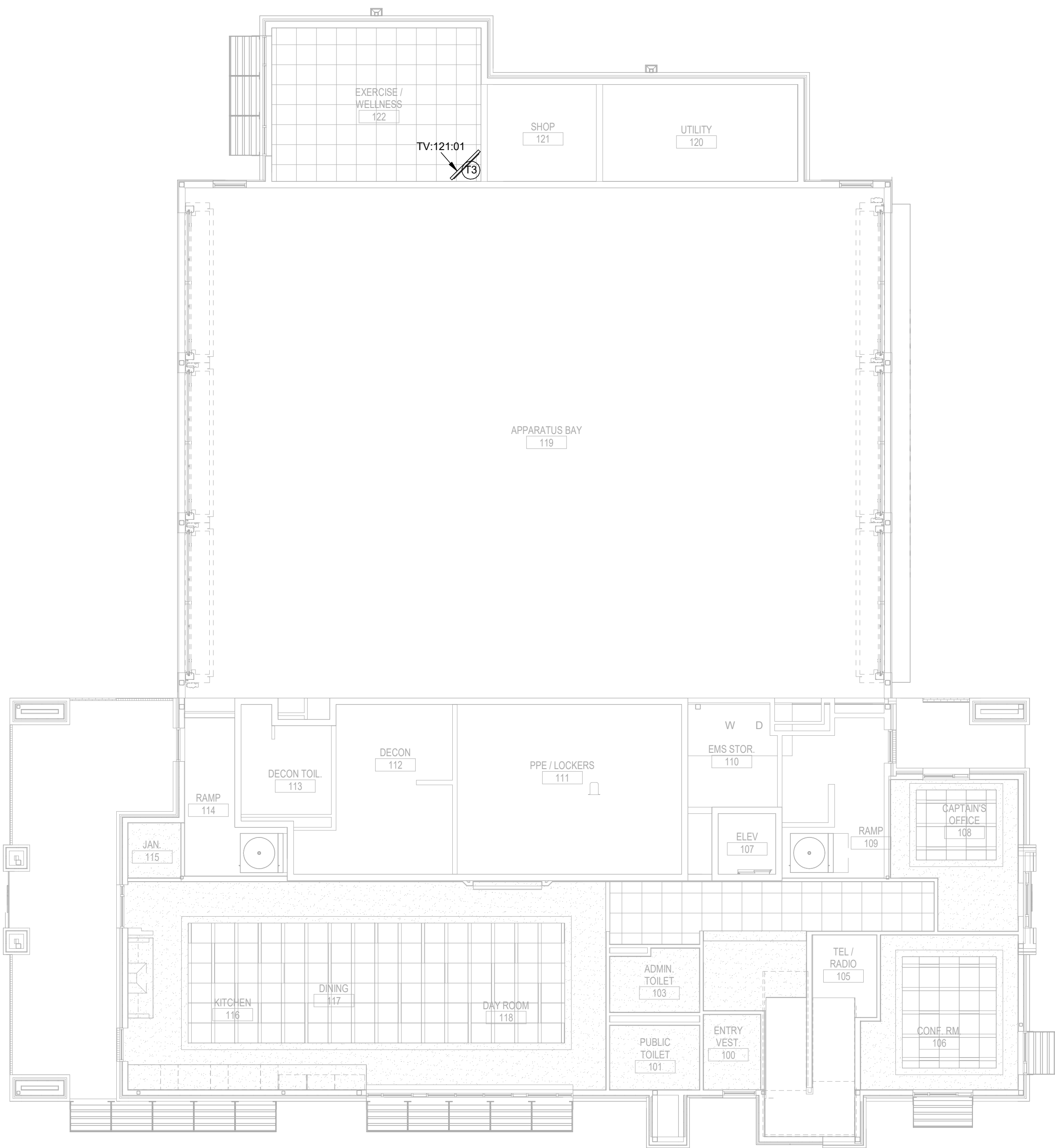
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100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

| # | Description | Date |
|---|-------------|------|
|---|-------------|------|



10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

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AUDIO-VIDEO
LEVEL 1 RCP

TA201

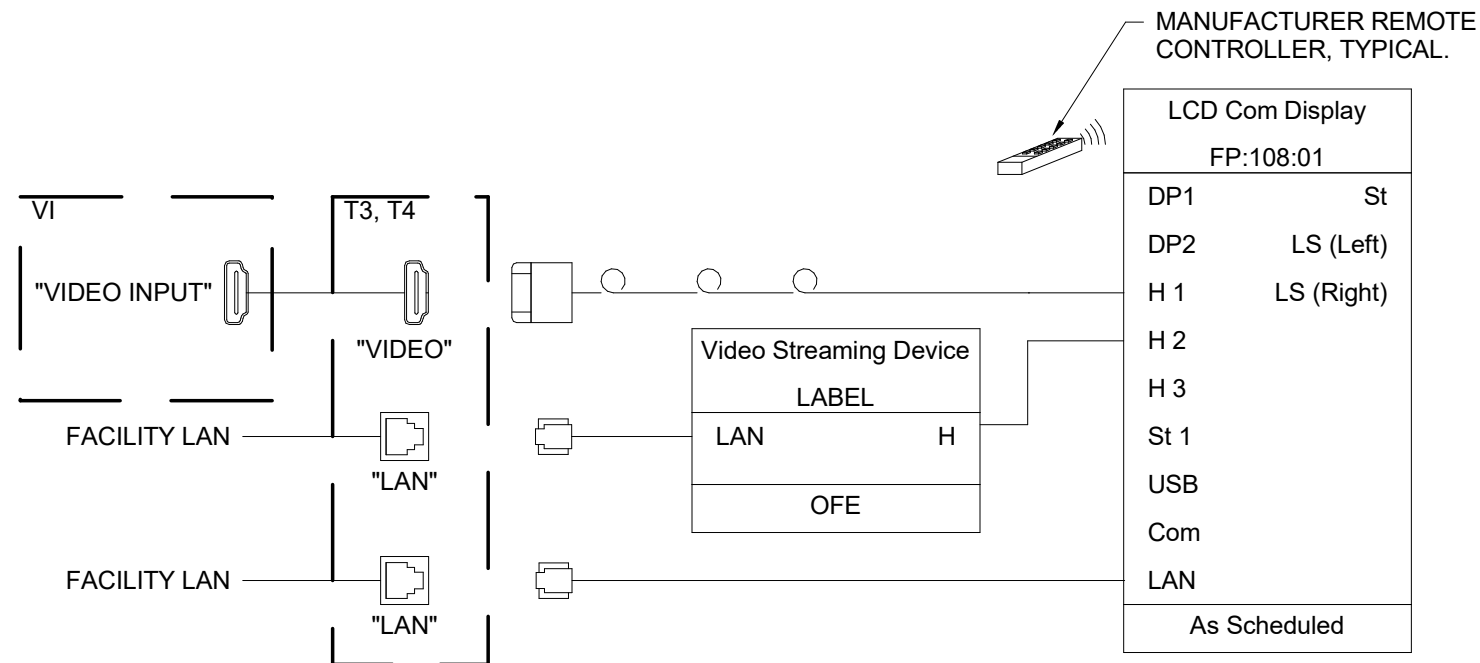
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| AUDIO-VIDEO BOX SCHEDULE - TYPICALS | | | | | | | | | | | |
|-------------------------------------|-----------------------------------|----------------|---------------|--------------|--------------------------------|---------------|-----------------|---------|---------|--|-------|
| BOX FUNCTION | | BOX PROPERTIES | | | | | BOX ACCESSORIES | | | CONDUIT REQUIREMENTS | |
| ID | DESCRIPTION | TYPE | B.O.D. MANUF. | B.O.D. MODEL | INSTALL HEIGHT (CENTER OF BOX) | MOUNTING | COVER | INSERTS | SIZE | ROUTE | NOTES |
| T2 | TELEVISION CONNECTION BOX | 2-GANG/2-GANG | RACO | 260 W/ 818 | MATCH CENTER HEIGHT OF DISPLAY | FLUSH | BLANK | NONE | 1.25" C | ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM | |
| T3 | TELEVISION CONNECTION CEILING BOX | 2-GANG/2-GANG | RACO | 167 W/ 818 | 0" | CEILING FLUSH | BLANK | NONE | - | - | |
| T4 | TELEVISION CONNECTION BOX | 2-GANG/2-GANG | RACO | 260 W/ 818 | MATCH CENTER HEIGHT OF DISPLAY | FLUSH | BLANK | NONE | 1.25" C | ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM | |
| VI | ASSORTED CONNECTION WALL BOX | 2-GANG/1-GANG | RACO | 260 W/ 843 | 18" | FLUSH | BLANK | NONE | 1.25" C | ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM | |

| AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE | | | | | | | | | |
|---|----------------------------|-----------------|-----------------|---|-------------------------|--------------|------------------------|-------------|-------|
| DISPLAY PROPERTIES | | | | MOUNTING REQUIREMENTS | | | DISPLAY RESPONSIBILITY | | |
| ID | SPEC NAME | B.O.D. MANUF. | B.O.D. MODEL | INSTALL HEIGHT AFF. (CENTER OF DISPLAY) | TYPE | FURNISHED BY | INSTALLED BY | PROVIDED BY | NOTES |
| FP:117:01 | LCD COMM DISPLAY - 2160/55 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING ADA | CONTRACTOR | CONTRACTOR | OWNER | |
| FP:118:01 | LCD COMM DISPLAY - 2160/55 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING | CONTRACTOR | CONTRACTOR | OWNER | |
| FP:118:02 | LCD COMM DISPLAY - 2160/55 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING | CONTRACTOR | CONTRACTOR | OWNER | |
| TV:106:01 | LCD COMM DISPLAY - 2160/75 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING | CONTRACTOR | CONTRACTOR | OWNER | |
| TV:108:01 | LCD COMM DISPLAY - 2160/55 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING | CONTRACTOR | CONTRACTOR | OWNER | |
| TV:117:01 | LCD COMM DISPLAY - 2160/75 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING ADA | CONTRACTOR | CONTRACTOR | OWNER | |
| TV:121:01 | LCD COMM DISPLAY - 2160/55 | ONWER FURNISHED | ONWER FURNISHED | 102" | CEILING - POLE | CONTRACTOR | CONTRACTOR | OWNER | |
| TV:203A:01 | LCD COMM DISPLAY - 2160/55 | ONWER FURNISHED | ONWER FURNISHED | 60" | WALL - ARTICULATING | CONTRACTOR | CONTRACTOR | OWNER | |

| AUDIO-VIDEO LOUDSPEAKER SCHEDULE | | | | | | | | | | | | | |
|----------------------------------|------------------------|---------------|--------------|-----------------|-----------------|----------------------|--------|-------------|-------|------|----------------|----------------|-------|
| ID | LOUDSPEAKER PROPERTIES | | | | | LOUDSPEAKER MOUNTING | | ORIENTATION | | | ENCLOSURE/HORN | | NOTES |
| | SPEC NAME | B.O.D. MANUF. | B.O.D. MODEL | IMPEDANCE (OHM) | 70V TAP (WATTS) | MOUNTING CONDITION | HEIGHT | YAW | PITCH | ROLL | ROLL ENCL. 90 | ROTATE HORN 90 | |

| | | | | | | | | | | | | | |
|------------|---------------|-----|-------|---|---|---------|-----|-------|-------|-------|----|----|--|
| SB:106:01 | SB 8 4x2 - SP | JBL | PSB-1 | 8 | - | SURFACE | 38" | 0.00° | 0.00° | 0.00° | No | No | |
| SB:117:01 | SB 8 4x2 - SP | JBL | PSB-1 | 8 | - | SURFACE | 38" | 0.00° | 0.00° | 0.00° | No | No | |
| SB:203A:01 | SB 8 4x2 - SP | JBL | PSB-1 | 8 | - | SURFACE | 44" | 0.00° | 0.00° | 0.00° | No | No | |

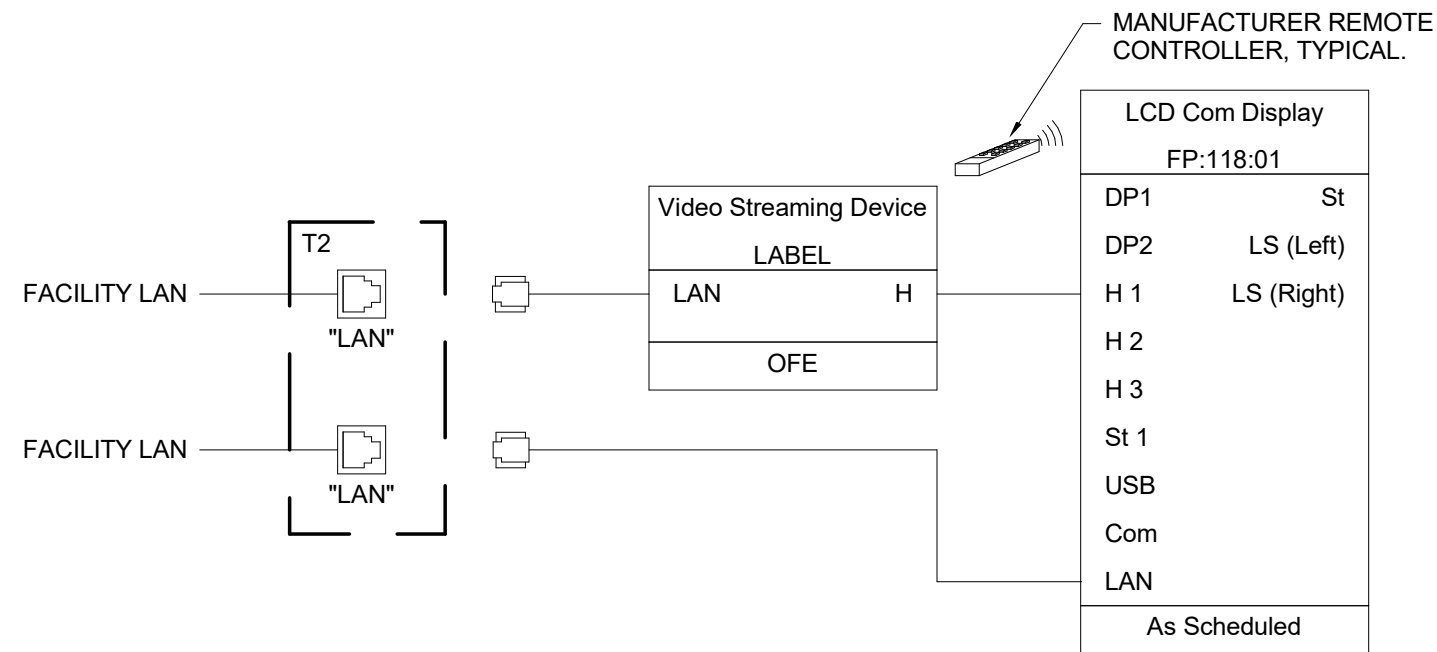


B1 CAPTAIN'S OFFICE 108 DISPLAY WITH LOCAL HDMI, FP:108:01 SHOWN

NOT TO SCALE

NOTES:

- SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
 - EXERCISE / WELLNESS 122 (FP:122:01)

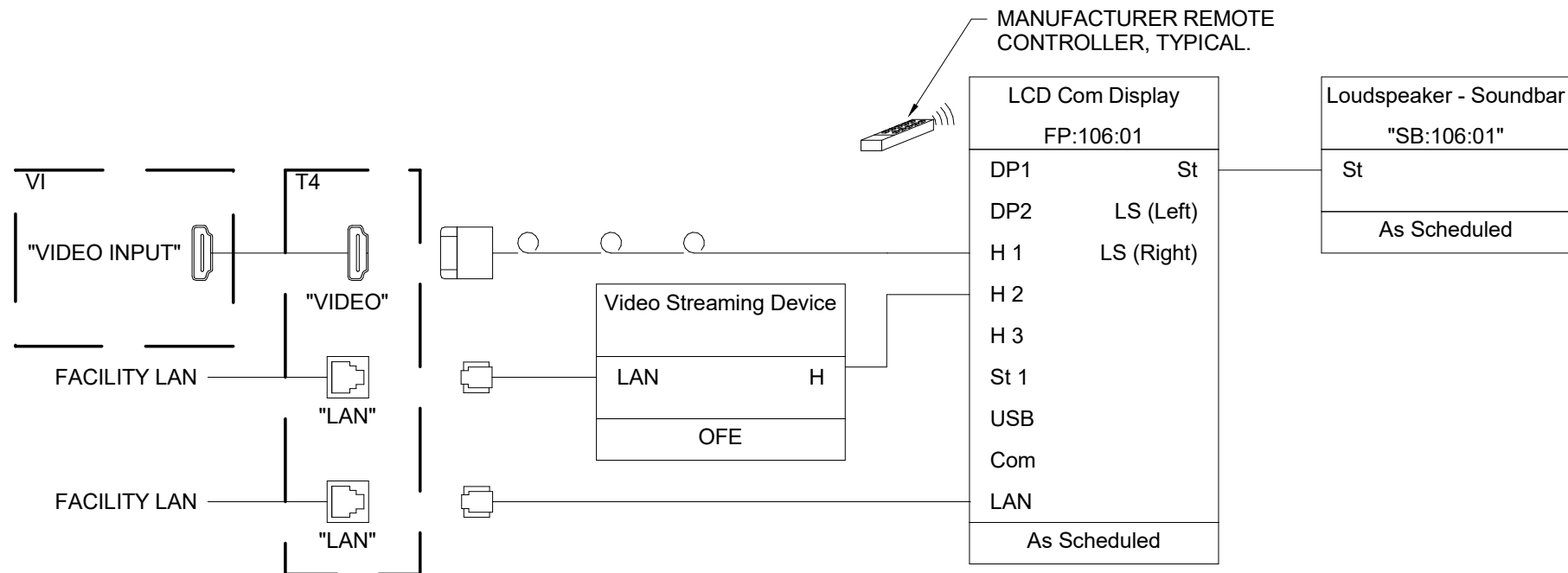


A1 APPARATUS BAY 118 DISPLAY, TYPICAL FP:118:01 SHOWN

NOT TO SCALE

NOTES:

- SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
 - APPARATUS BAY 118 (FP:118:02)
 - DINNING 117 (FP:117:01)

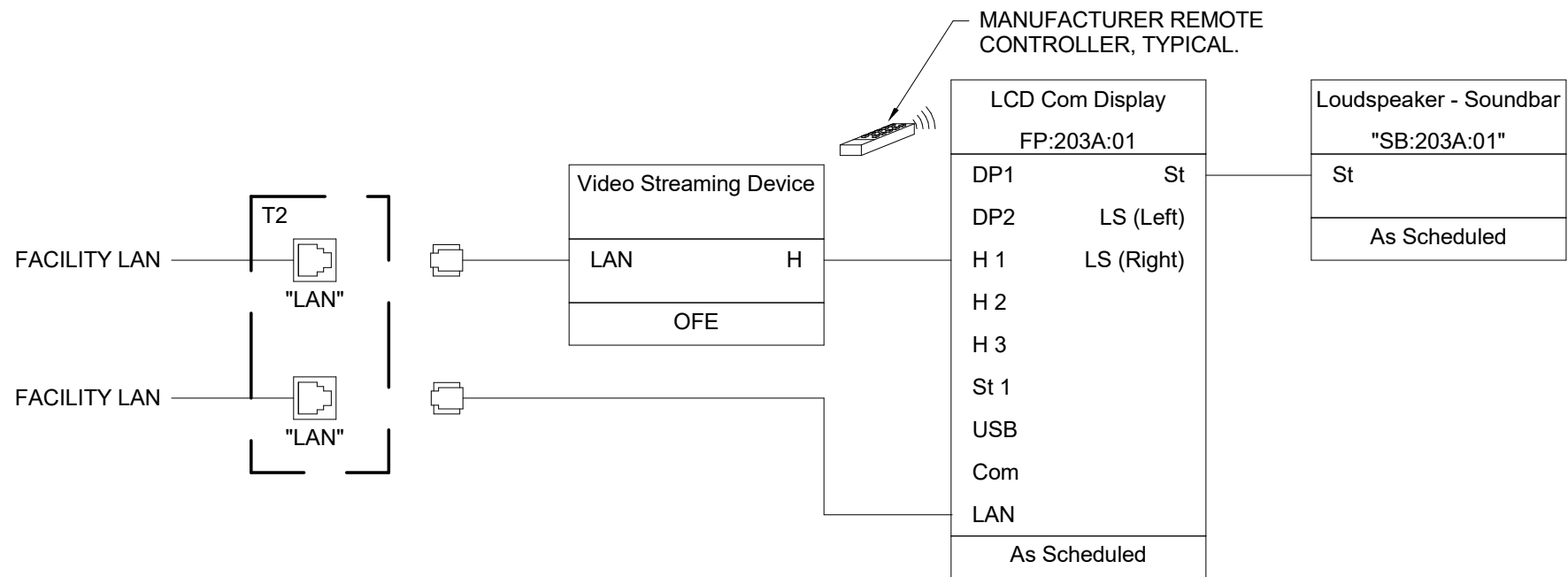


B4 SINGLE DISPLAY WITH LOCAL HDMI, TYPICAL TRAINING/SMALL CONFERENCE ROOM 106 SHOWN

NOT TO SCALE

NOTES:

- SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
 - DAY ROOM 117



A4 CAPTAIN'S BUNK 203 DISPLAY

NOT TO SCALE



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AUDIO-VIDEO SCHEDULES & SIGNAL FLOWS

TA600

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TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V2.00

| STANDARD MOUNTING HEIGHTS | | | |
|---|--|--|--|
| TELECOM BACKBOARD (BOTTOM OF BACKBOARD) | 4" | | |
| LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE) | 90" | | |
| CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY) | 3"(MIN) | | |
| LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE) | 108"(MIN) | | |
| DATA WALL OUTLET | SAME AS ADJACENT DEVICE, UNO | | |
| TELEVISION OUTLET | REFER TO ARCH DRAWINGS | | |
| TMGB/TGB (CENTERLINE) | 84" | | |
| WALL CLOCK (CENTERLINE) | 84" | | |
| INTERCOM (CENTERLINE) | 48" | | |
| USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO BOTTOM OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS. | | | |
| ABBREVIATIONS | | | |
| A AMPERES | LAN LOCAL AREA NETWORK | | |
| ADA AMERICANS WITH DISABILITIES ACT | LCC LIMITED COMBUSTIBLE CABLE | | |
| AFC ABOVE FINISHED CEILING | LEC LOCAL EXCHANGE CARRIER | | |
| AFF ABOVE FINISHED FLOOR | LED LIGHT-EMITTING DIODE | | |
| AFG ABOVE FINISHED GRADE | LF LINEAR FEET | | |
| AHJ AUTHORITY HAVING JURISDICTION | MAN METROPOLITAN AREA NETWORK | | |
| ANSI AMERICAN NATIONAL STANDARDS INSTITUTE | MATV MASTER ANTENNA TELEVISION | | |
| AP ACCESS POINT | MC MAIN CROSS-CONNECT | | |
| AV AUDIO-VIDEO | MDF MAIN DISTRIBUTION FRAME | | |
| AWG AMERICAN WIRE GAUGE | MFR MANUFACTURER | | |
| BAS BUILDING AUTOMATION SYSTEM | MH MAINTENANCE HOLE | | |
| BBC BACKBONE BONDING | MM MULTIMODE | | |
| BD BUILDING DISTRIBUTOR | MPOE MAIN POINT OF ENTRANCE | | |
| BDF BUILDING DISTRIBUTION FRAME | MPOP MAIN POINT OF PRESENCE | | |
| BFC BELOW FINISHED CEILING | MTD MOUNTED | | |
| C CONDUIT | N/A NOT APPLICABLE | | |
| CAT CATEGORY | NEC NATIONAL ELECTRICAL CODE | | |
| CATV COMMUNITY ANTENNA TELEVISION | NFPA NATIONAL FIRE PROTECTION ASSOCIATION | | |
| CCTV CLOSED CIRCUIT TELEVISION | NIC NOT IN CONTRACT | | |
| CD CAMPUS DISTRIBUTOR | nm NANOMETER | | |
| CMP COMMUNICATIONS PLENUM | NRTL NATIONALLY RECOGNIZED TESTING LAB | | |
| CMR COMMUNICATIONS RISER | OC ON CENTER | | |
| JACKET | OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION | | |
| DAS DISTRIBUTED ANTENNA SYSTEM | OSP OUTSIDE PLANT | | |
| dB DECIBELS | PBB PRIMARY BONDING BUSBAR | | |
| DEMO DEMOLITION | PBX PRIVATE BRANCH EXCHANGE | | |
| (E) EXISTING | POE POWER OVER ETHERNET | | |
| ECIA ELECTRICAL CONTRACTOR ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION | PON PASSIVE OPTICAL NETWORK | | |
| EMI ELECTROMAGNETIC INTERFERENCE | POTS PLAIN OLD TELEPHONE SERVICE | | |
| EMS ENERGY MANAGEMENT SYSTEM | PSTN PUBLIC SWITCHED TELEPHONE NETWORK | | |
| EMT ELECTRICAL METALLIC TUBING | QTY QUANTITY | | |
| ER EQUIPMENT ROOM | RCDD REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER | | |
| ETR EXISTING TO REMAIN | RMC RIGID METAL CONDUIT | | |
| FACP FIRE ALARM ANNUNCIATOR PANEL | RU RACK UNIT | | |
| FACP FIRE ALARM CONTROL PANEL | SBB SECONDARY BONDING BUSBAR | | |
| FD FLOOR DISTRIBUTOR | SCS STRUCTURED CABLING SYSTEM | | |
| FMC FLEXIBLE METAL CONDUIT | SF SQUARE FEET | | |
| FS FIRE STOP SYSTEM | SM SINGLEMODE | | |
| FLR FLOOR | SPECS SPECIFICATIONS | | |
| F/UTP SCREEN TWISTED PAIR (SHIELDED) | TBB TELECOMMUNICATIONS BONDING BACKBONE TO BE DETERMINED | | |
| GC GENERAL CONTRACTOR | TBD TELECOMMUNICATIONS TO BE DETERMINED | | |
| GYP GYPSUM BOARD | TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION | | |
| HC HORIZONTAL CROSS-CONNECT | TR TELECOMMUNICATIONS ROOM | | |
| HCM HORIZONTAL CABLE MANAGER | TYP TYPICAL | | |
| HH HAND HOLE | UNO UNLESS NOTED OTHERWISE | | |
| HZ HERTZ | UL UNDERWRITER LABORATORIES, INC. | | |
| IMC INTERMEDIATE METAL CONDUIT | UPS UNINTERRUPTIBLE POWER SUPPLY | | |
| IP INTERNET PROTOCOL | UI/UTP UNSHIELDED TWISTED PAIR | | |
| ISP INTERNET SERVICE PROVIDER | V VOLTS(S) | | |
| ISP INSIDE PLANT CABLE | VCN VERTICAL CABLE MANAGER | | |
| JB JUNCTION BOX | W WIRE | | |
| J-BOX JUNCTION BOX | WAN WIDE AREA NETWORK | | |
| | WAO WORK AREA OUTLET | | |
| | WAP WIRELESS ACCESS POINT | | |
| | WP WEATHER PROOF | | |
| | WR WEATHER RESISTANT | | |
| | WT WATERTIGHT | | |
| | XP EXPLOSION-PROOF | | |

| PATHWAYS | |
|-------------------------|---|
| | WIRE MESH CABLE TRAY (W"=WIDTH, "H"=HEIGHT) |
| | VERTICAL CABLE TRAY |
| | UNDERGROUND CONDUIT ("H"=QUANTITY, "D"=CONDUIT DIAMETER) |
| | CONDUIT ("H"=QUANTITY, "D"=CONDUIT DIAMETER) |
| | CABLE SUPPORTS OR J-HOOKS |
| | CONDUIT SLEEVE ("H"=QUANTITY, "D"=CONDUIT DIAMETER) |
| | UL FIRESTOP SYSTEM ASSEMBLY |
| | PULL BOX ("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT) |
| | SPLICE |
| RISER DIAGRAMS | |
| | FIBER OPTIC CROSS CONNECT |
| | COPPER UTP CROSS CONNECT |
| | 110-TYPE PROTECTOR BLOCK |
| | PATCH PANEL |
| | SECONDARY BONDING BUSBAR (SBB) |
| | PRIMARY BONDING BUSBAR (PBB) |
| | TELECOMMUNICATIONS BACKBONE CABLING (REFER TO RISER DIAGRAM FOR MORE INFORMATION) |
| TELECOMMUNICATIONS ROOM | |
| | LADDER RACK |
| | PRIMARY BONDING BUSBAR (PBB) - WALL ELEVATION VIEW |
| | SECONDARY BONDING BUSBAR (SBB) - WALL ELEVATION VIEW |
| | PBB/SBB - PLAN VIEW |
| | TELECOM BACKBOARD |
| | TWO-POST EQUIPMENT RACK |
| | FOUR-POST EQUIPMENT RACK |
| | EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION) |
| CABLE TYPES | |
| A | CATEGORY 6 CABLE |
| B | CATEGORY 6A CABLE |

| TELECOMMUNICATIONS OUTLETS | | | | |
|---|--|----------|-------------------|-------------|
| SYMBOL | DESCRIPTION | CABLE(S) | | DETAIL |
| | | A | B | |
| ▽ 1D | DATA WALL OUTLET | 1 | 0 | A3,D5/TN500 |
| ▽ 2D | DATA WALL OUTLET | 2 | 0 | A3,D5/TN500 |
| ▽ 2D, TV | DATA WALL OUTLET FOR AV DISPLAY. MOUNT AT 60" AFF. | 2 | 0 | C5/TN500 |
| ▽ WAP | DATA WALL OUTLET FOR WIRELESS ACCESS POINT. MOUNT AT 120" AFF. | 1 | 0 | A1,E1/TN500 |
| ▽ W, 1D | TELEPHONE, VoIP WALL OUTLET | 1 | 0 | D7/TN500 |
| ▽ 2D,ELEV | DATA WALL OUTLET FOR ELEVATOR | 2 | 0 | D5/TN500 |
| ⊕ 1D | DAT CEILING OUTLET | 0 | 1 | A1,E1/TN500 |
| 2D, TYPE "X" | MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS. REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX TYPE | 2 | 0 | D1/TN501 |
| TELECOMMUNICATIONS END-POINT DEVICES | | | | |
| DEVICE SCHEDULE | | | | |
| SYMBOL | DESCRIPTION | CABLE(S) | | DETAIL |
| | | A | B | |
| Ⓢ RT | PAGING SPEAKER, RECESSED CEILING TILE MOUNT | 1 | 0 | C1/TN500 |
| Ⓢ P | PAGING SPEAKER, PENDANT CEILING MOUNT | 1 | 0 | C1/TN500 |
| TELECOMMUNICATIONS RESPONSIBILITY MATRIX | | | | |
| | | | Furnish | |
| Description | | | Construction Team | |
| General Communications | | | | |
| Grounding and Bonding | | | X | |
| Hangers and Supports | | | X | |
| Conduits and Backboxes | | | X | |
| Surface Raceways | | | X | |
| Underground pathways for utility entrance and floor boxes | | | X | |
| Firestops, Conduit Sleeves, and Sleeve Seals | | | X | |
| Structured Cabling | | | | |
| Telecom Room Cabinets, Racks, Frames, and Enclosures | | | X | |
| Copper Horizontal Cable and Connectivity | | | X | |
| Data Communications | | | | |
| Router / Firewall | | | | |
| Core Switch / Edge Switch | | | | |
| Wireless Access Points | | | | |
| Servers / Storage and Backup | | | | |
| Laptops / Desktops / Copiers / Printers / Scanners | | | | |
| Voice Communications | | | | |
| VoIP Gateway / Analog handsets | | | | |
| VoIP handset wall mount kit | | | | |
| VoIP handsets | | | | |
| VoIP Network licensing | | | | |
| Distributed & Monitoring Communications | | | | |
| Overhead Analog/IP Paging | | | X | |
| Electronic Safety and Security | | | | |
| Conduits and Backboxes for Security systems | | | X | |
| Refer to Security drawings for Security Scope | | | | |

| GENERAL NEW WORK NOTES | |
|------------------------|---|
| 1. | READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS. |
| 2. | ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS. |
| 3. | FULLY COORDINATE ALL FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES. |
| 4. | ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE; FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR. A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE. |
| 5. | ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (F/S). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRES TOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM. |
| 6. | BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS. |
| 7. | ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569. |
| 8. | TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.) |
| | |
| HATCHING LEGEND | |
| ENLARGED PLAN | |
| NOT IN SCOPE (NIS) | |

| ANNOTATION | |
|--|--|
| | TECHNOLOGY PLAN CALLOUT |
| | EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED) |
| | CONNECTION POINT OF NEW WORK TO EXISTING |
| | DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER |
| | SECTION CUT DESIGNATION |
| | DEDICATED EQUIPMENT ACCESS TILE |
| | ACCESS PANEL |
| LINETYPE LEGEND | |
| THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC. | |
| EXISTING | NEW |
| DEMOLISH | FUTURE |

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FIRE STATION #5
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10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.CORONADO
CHK'D BY: M.MAURER

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TECHNOLOGY GENERAL NOTES

TN000

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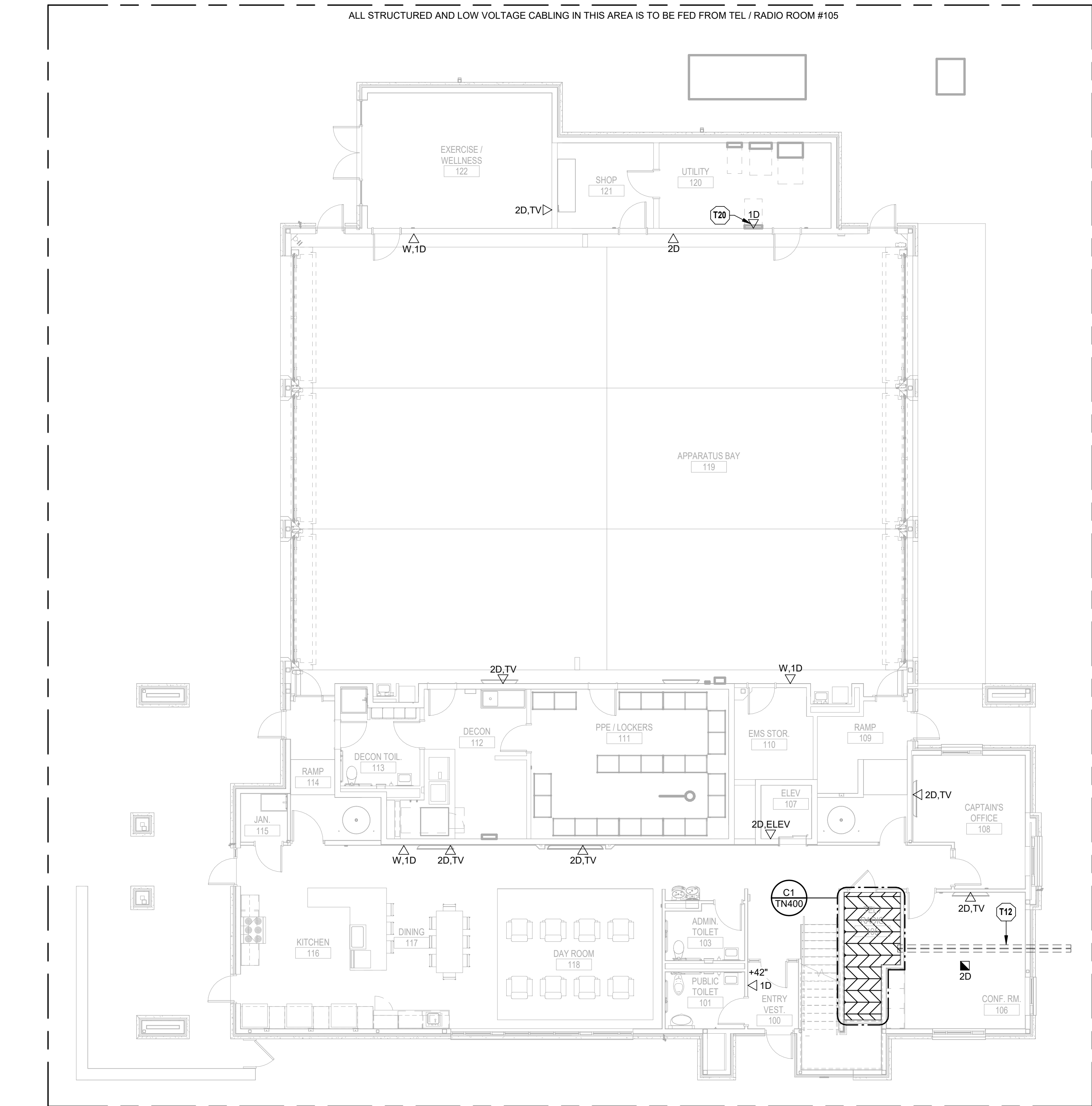
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(A1) TECHNOLOGY LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH

- TECHNOLOGY PLAN NOTES:**
- T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PULL STRING. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T20 PROVIDE DATA OUTLET FOR LIGHTING CONTROL PANEL. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH ELECTRICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.

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NUMBER E-28923
10/26/2022

PROJECT NO: 2150001291
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**TECHNOLOGY
LEVEL 1 PLAN**

TN101

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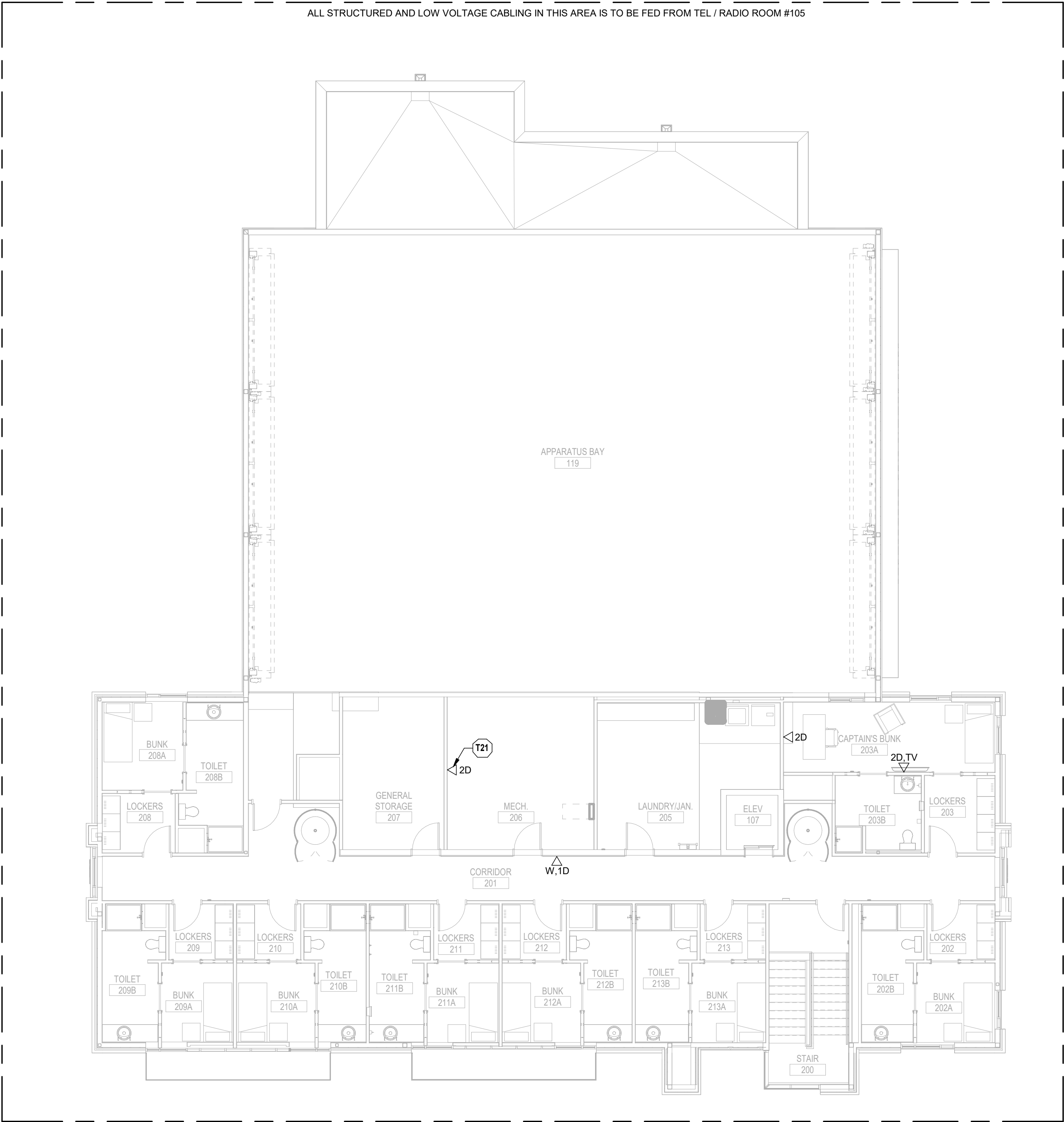
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6

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8

TECHNOLOGY PLAN NOTES:
T21 PROVIDE DATA OUTLET FOR BMS CONTROL PANEL. REFER TO MECHANICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.



A1

TECHNOLOGY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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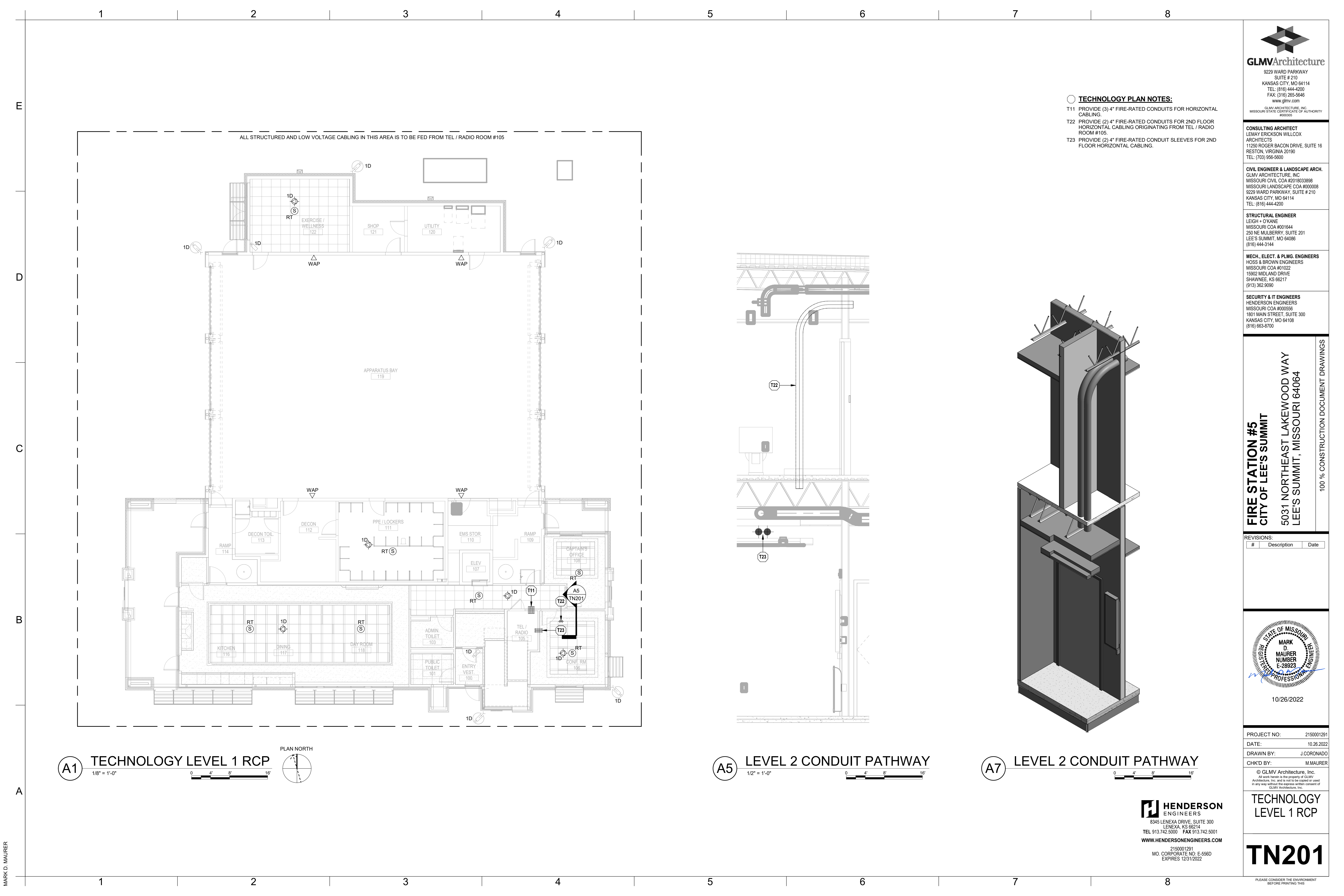
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TECHNOLOGY
LEVEL 2 PLAN

TN102

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TECHNOLOGY PLAN NOTES:

- T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.

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TECHNOLOGY
LEVEL 1 RCP

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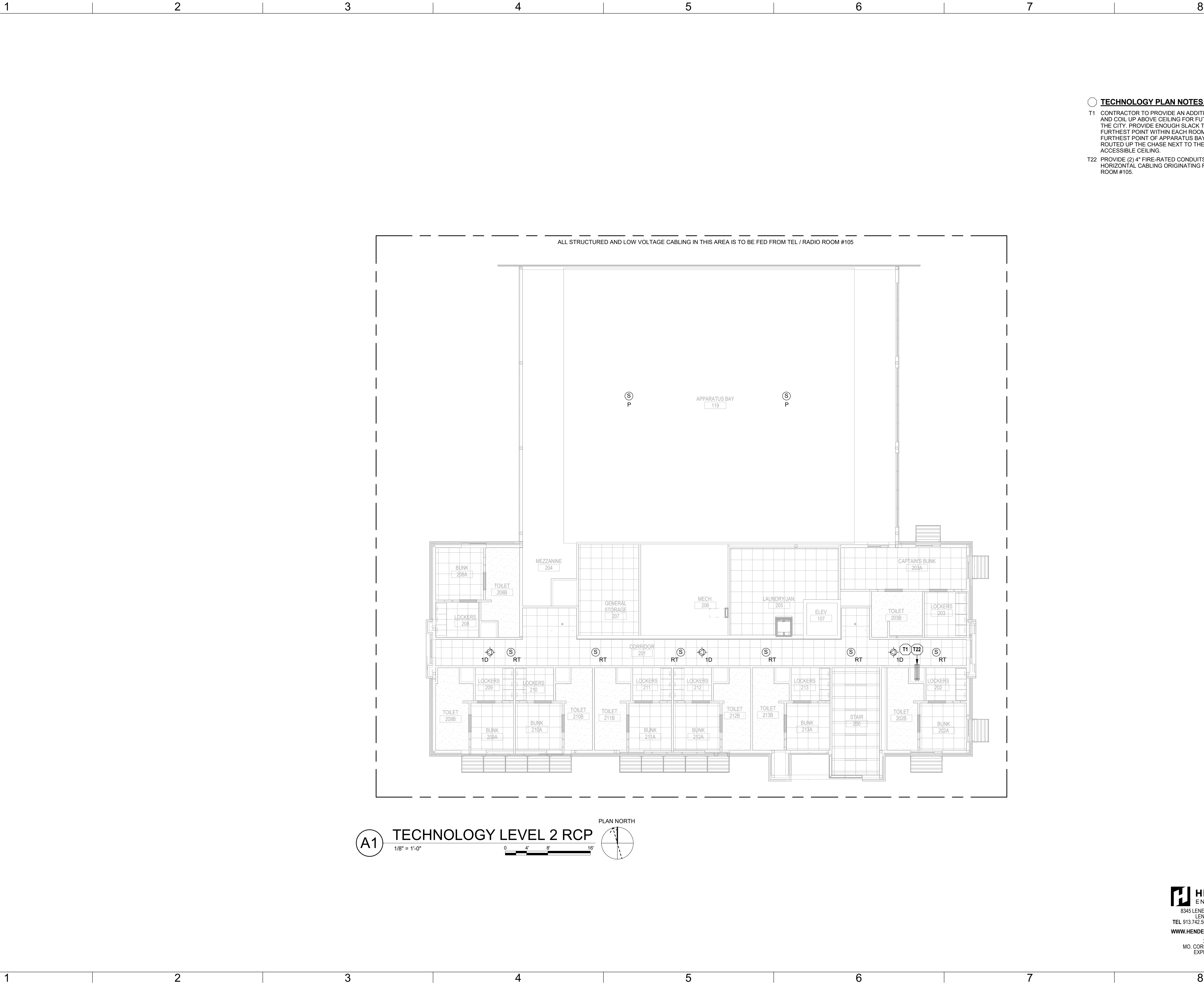
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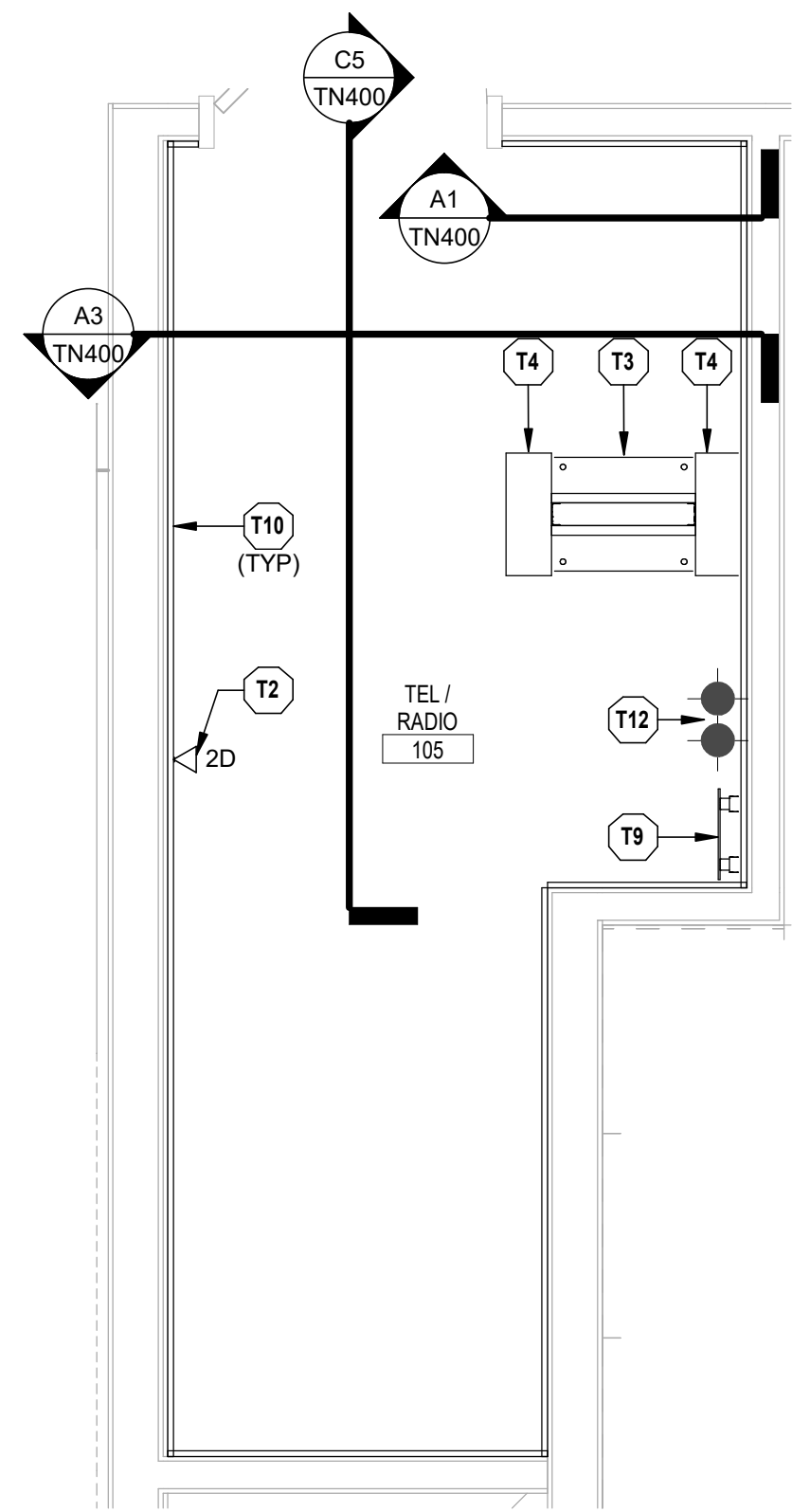
TECHNOLOGY
LEVEL 2 RCP

TN202

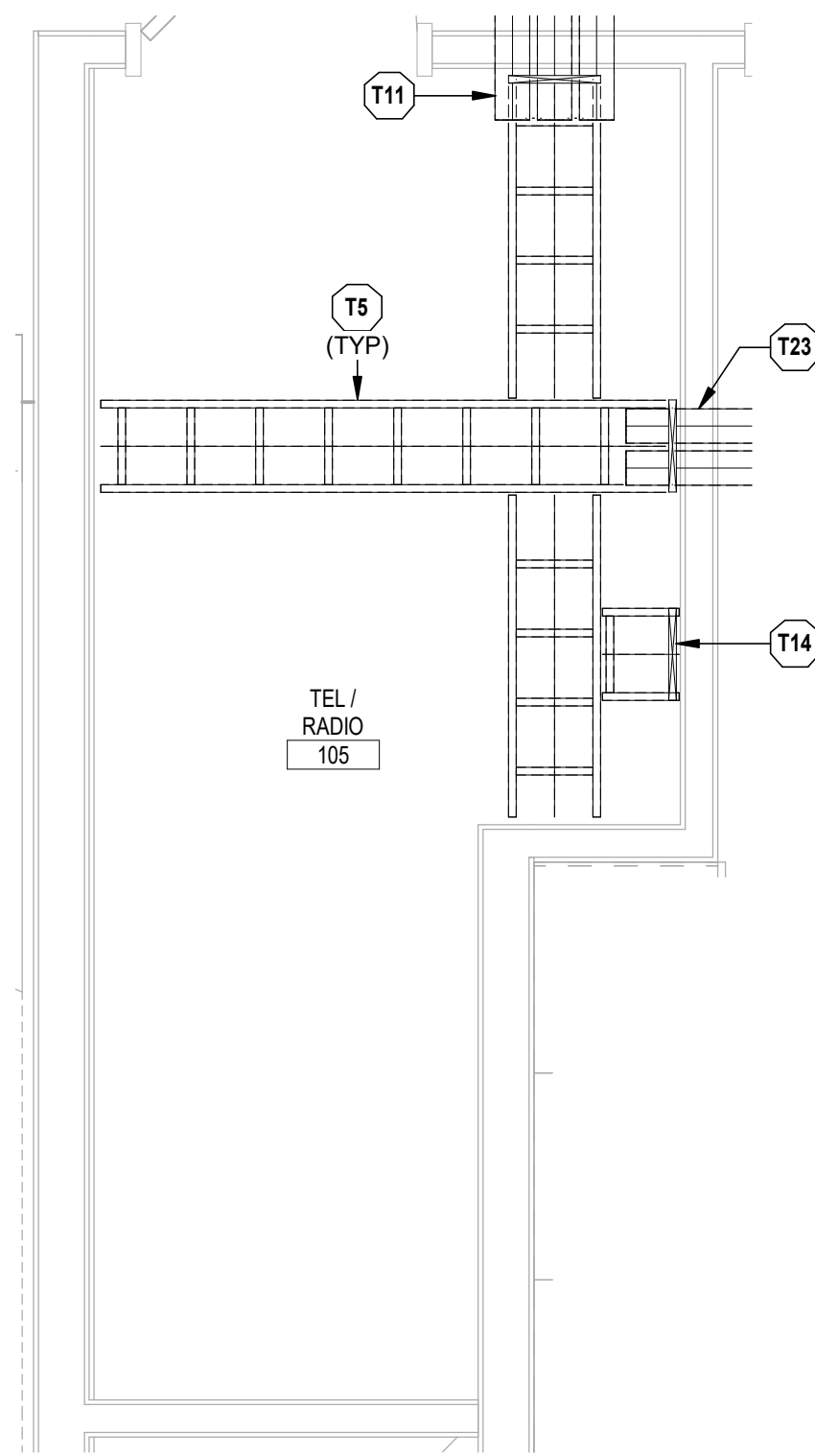
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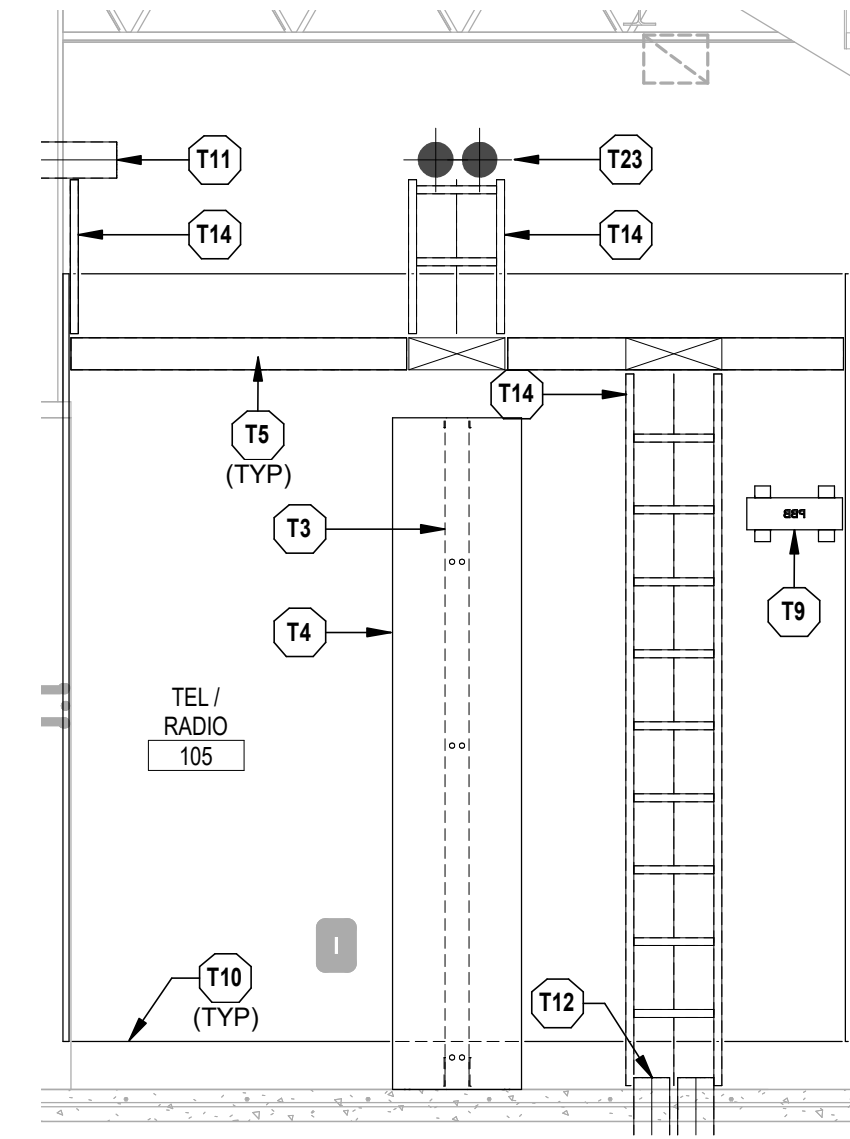
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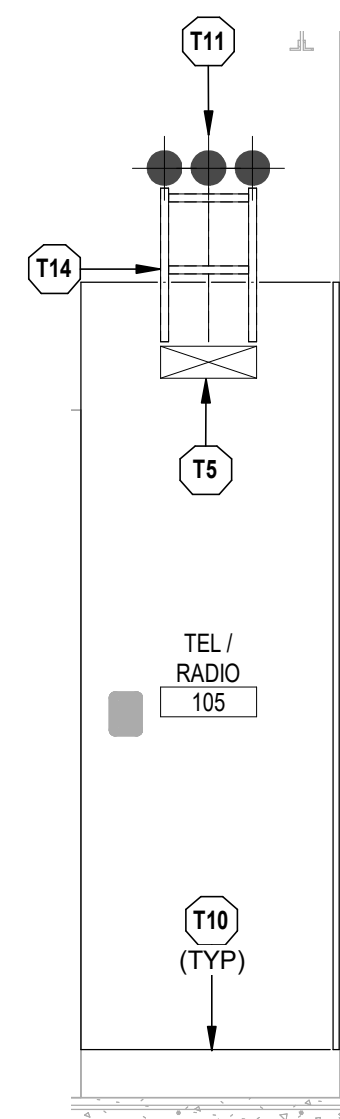
(C1) TEL/RADIO #105 - ENLARGED PLAN



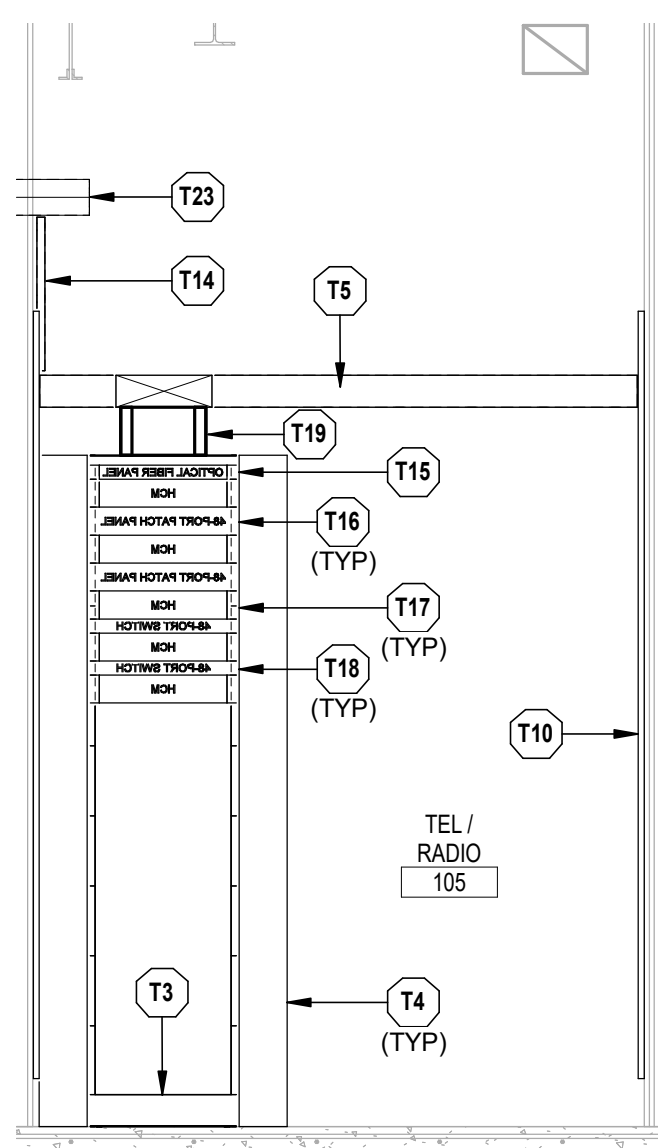
TEL/RADIO #105 - PATHWAY PLAN



C5 TEL / RADIO 105 - PLAN WEST ELEVATION



TEL / RADIO 105 - PLAN NORTH ELEVATION



A3 TELE / RADIO 105 - RACK ELEVATION

- TECHNOLOGY PLAN NOTES:**
- T2 PROVIDE DATA OUTLET FOR SECURITY SYSTEM. REFER TO SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATION AND SECURITY PROVIDER.
- T3 PROVIDE TWO-POST FLOOR RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T4 PROVIDE VERTICAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T5 PROVIDE 12" WIDE LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T6 PROVIDE TELECOMMUNICATIONS PRIMARY BUS BAR (PBB). REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T10 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C 3/4" THICK FIRE RATED PLYWOOD BACKBOARDS DOUBLE COATED IN UL 723 CLASSIFIED FIRE RETARDANT LOW GLOSS WHITE PAINT. THE "A" SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. PLYWOOD SHALL BE PAINTED PRIOR TO INSTALLATION OF EQUIPMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PLUMB STRUNG. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T13 PROVIDE 12" WIDE VERTICAL LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T15 PROVIDE OPTICAL FIBER ENCLOSURE, PANELS AND MODULES TO PROVIDE POINT-TO-POINT TERMINATION OF OPTICAL FIBER CABLES FOR A FULLY-FUNCTIONING SYSTEM. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T16 PROVIDE PATCH PANEL FOR HORIZONTAL CABLING. PROVIDE APPROPRIATE QUANTITY TO SUPPORT DEVICES CONNECTED FROM CONDUITS. SEE SCHEDULE NOTED IN SPECIFICATIONS. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T17 PROVIDE HORIZONTAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T18 OWNER PROVIDED NETWORK SWITCH.
- T19 PROVIDE 6" RUNWAY EXTENSION KIT AND A 3" TOP PLATE AT EACH EQUIPMENT RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.



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FIRE STATION #5
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
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| DRAWN BY: | J.CORONADO |
| CHK'D BY: | M.MAURER |

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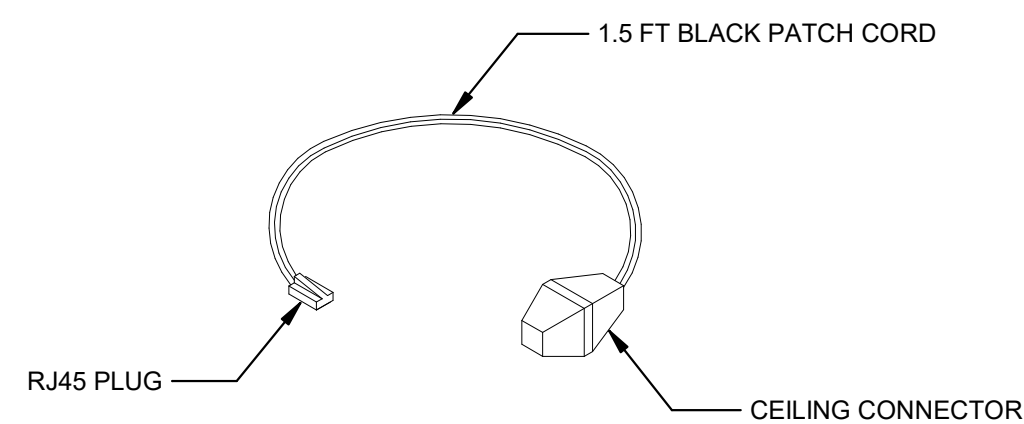
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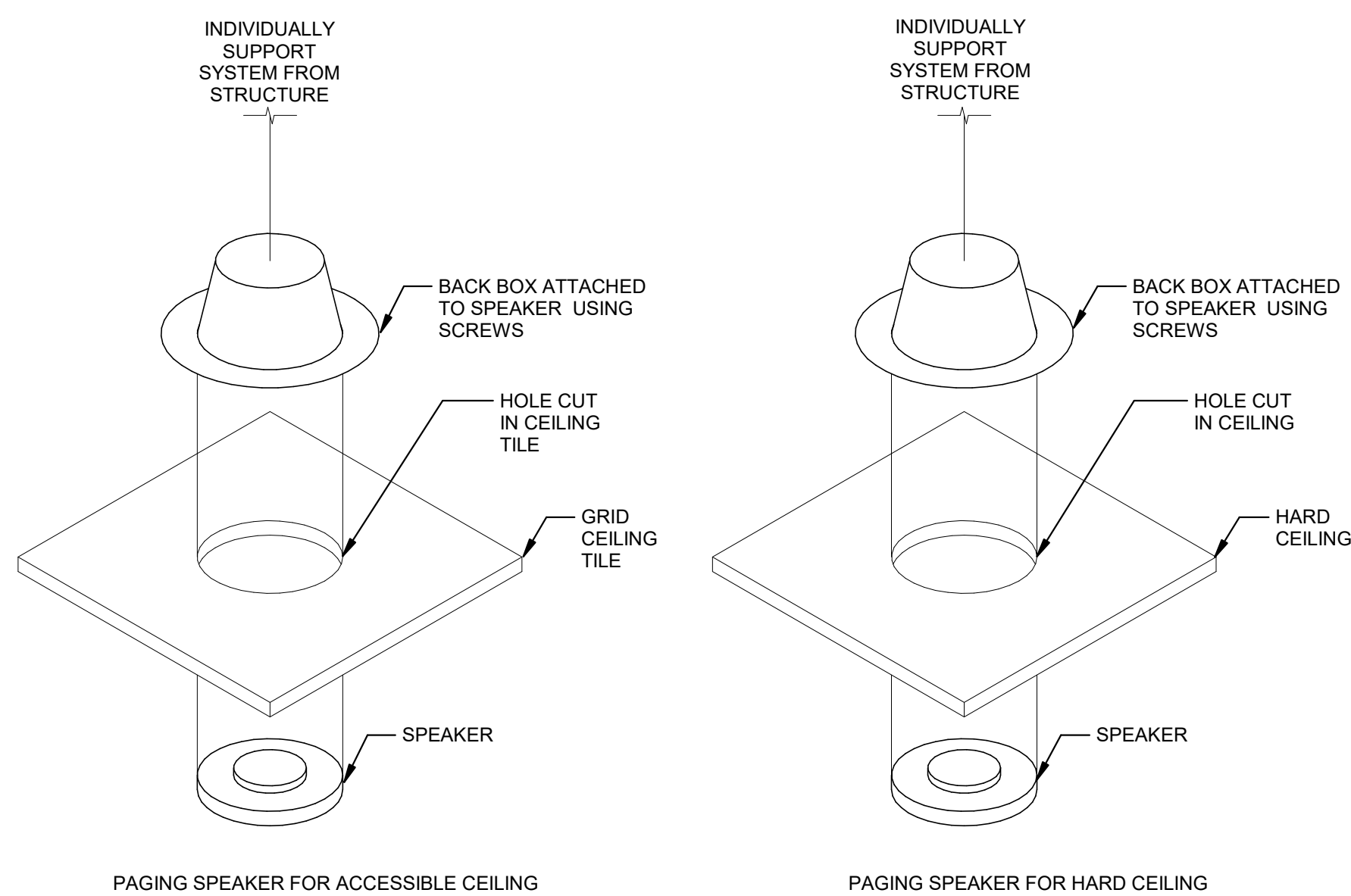
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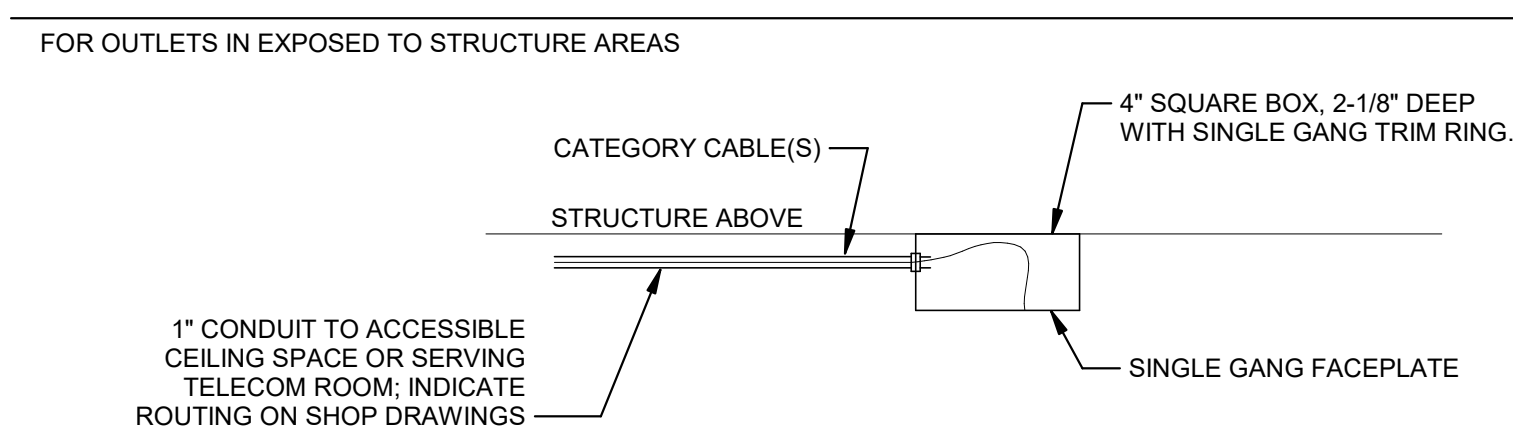
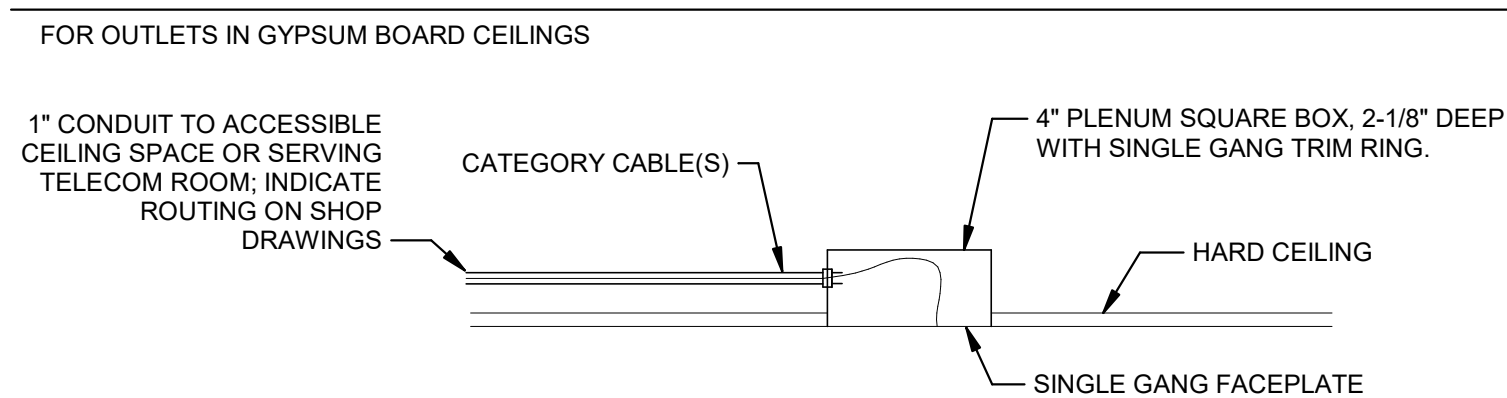
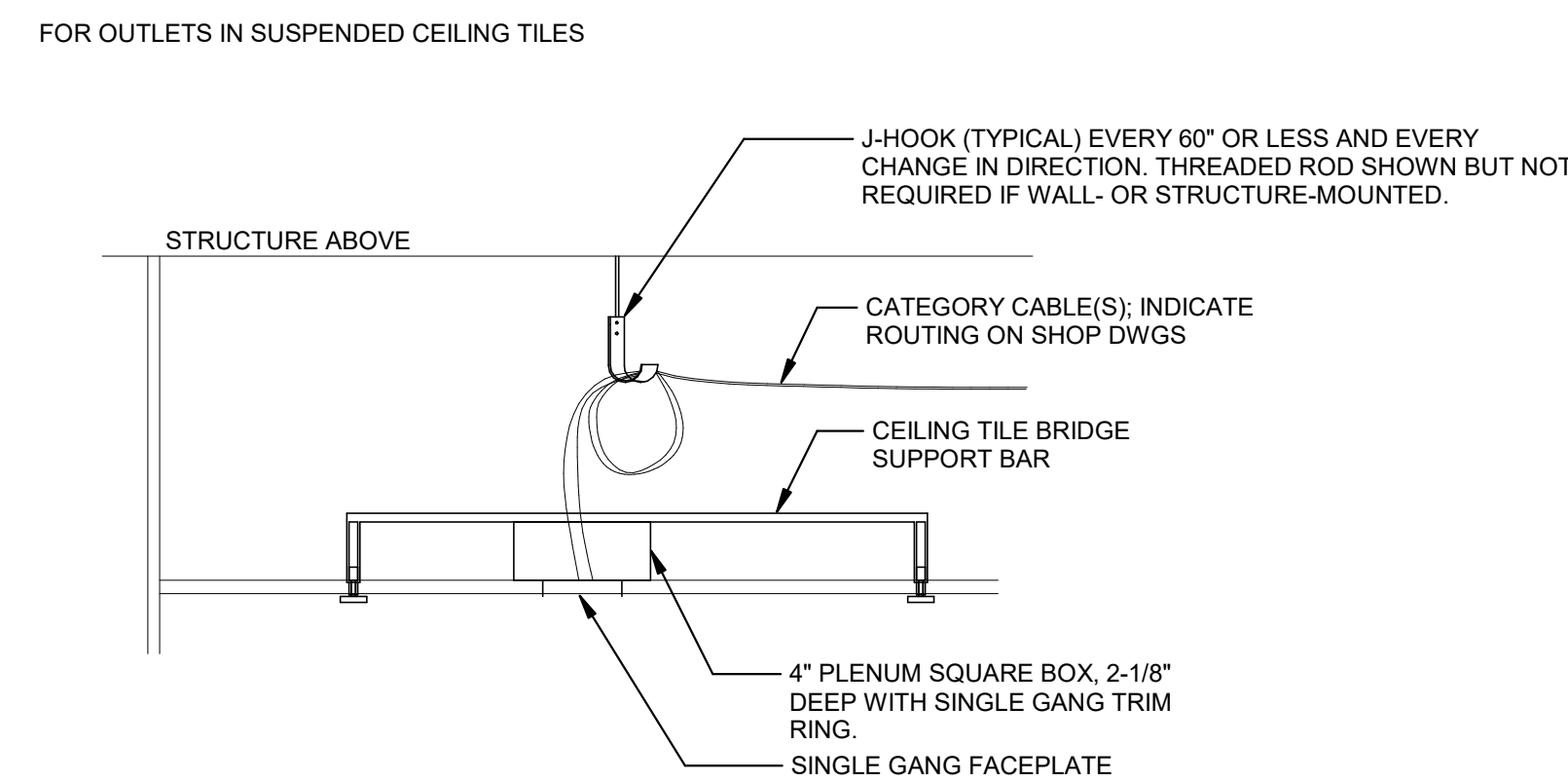
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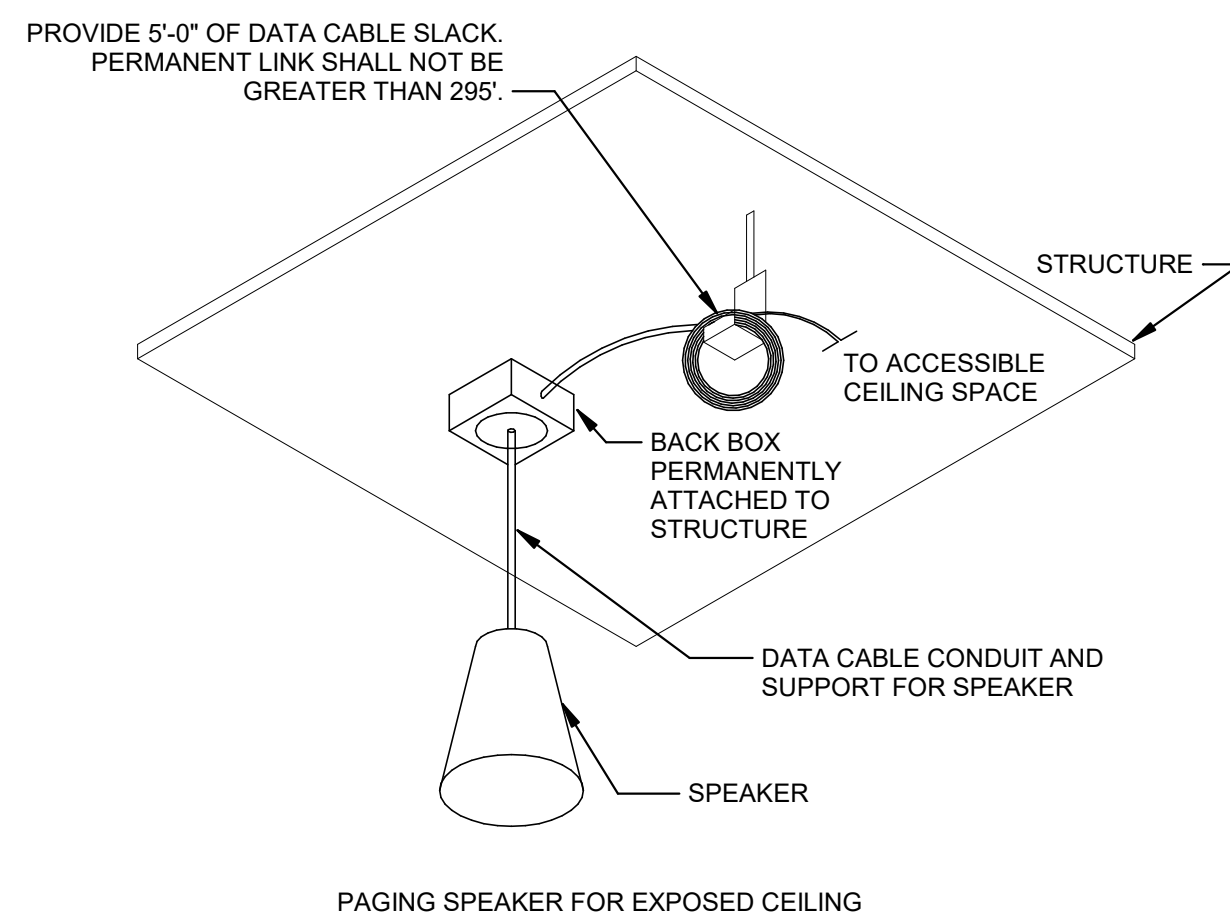
E1 ACCESS POINT CONNECTOR ASSEMBLY
NOT TO SCALE



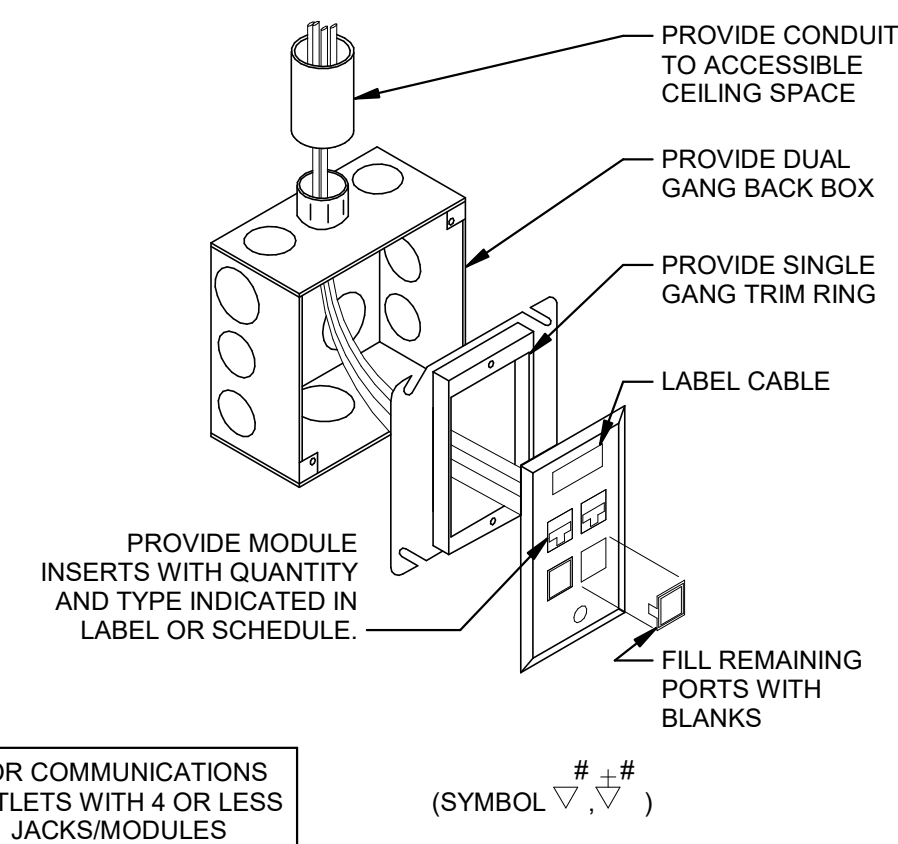
C1 SPEAKER INSTALLATION



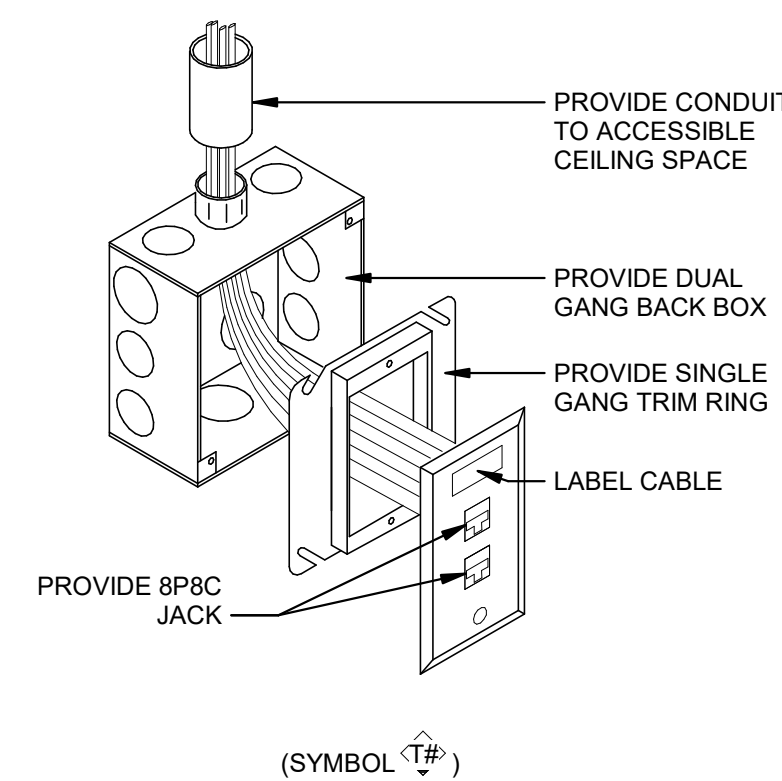
A1 CEILING COMM OUTLET 2D



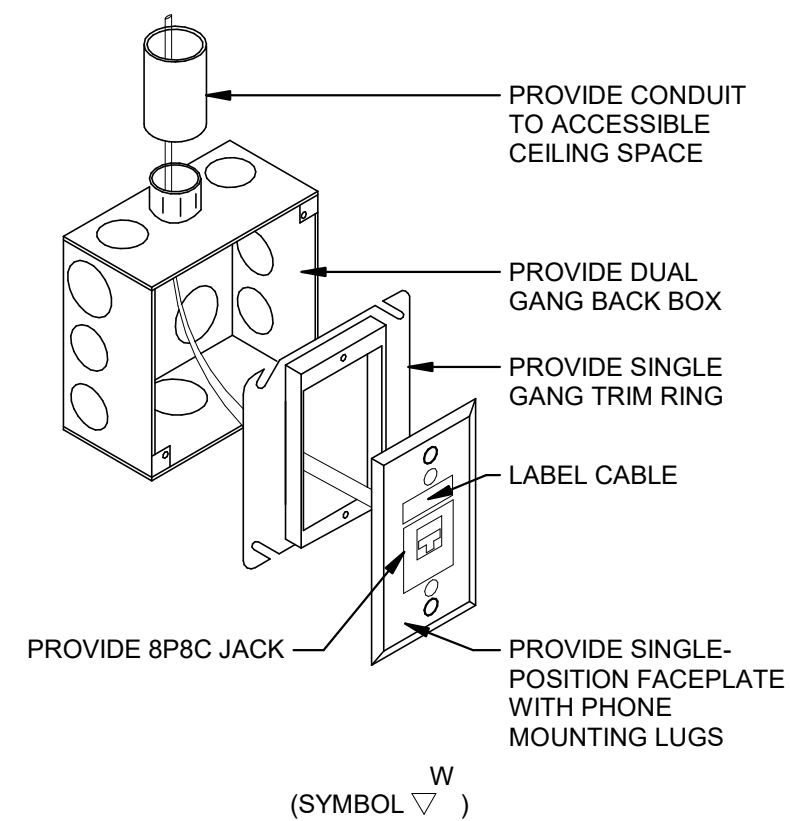
A3 COMMUNICATIONS OUTLET MOUNTING
NOT TO SCALE



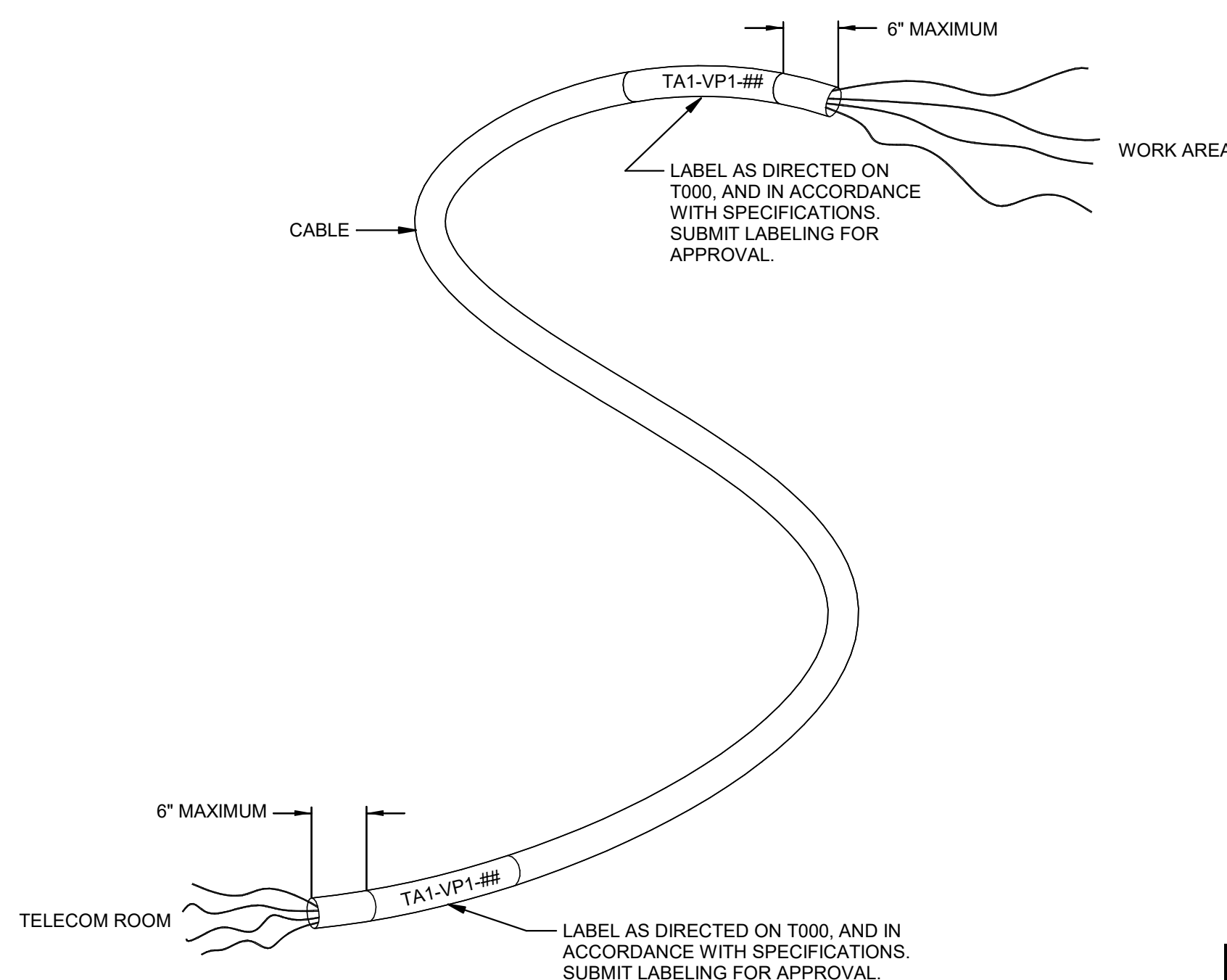
(D5) SINGLE GANG COMM OUTLET (3D)
NOT TO SCALE



(C5) SINGLE GANG COMM OUTLET FOR DISPLAY (3D)
NOT TO SCALE



D7 WALL PHONE OUTLET (3D)



A6 LABELING OF HORIZONTAL CABLE
NOT TO SCALE



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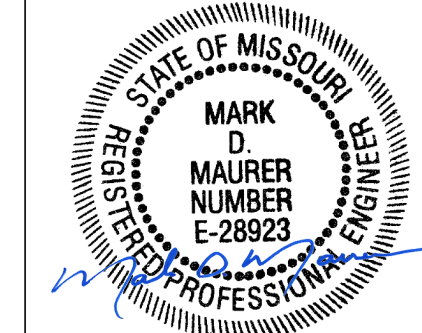
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DATE: 10.26.20

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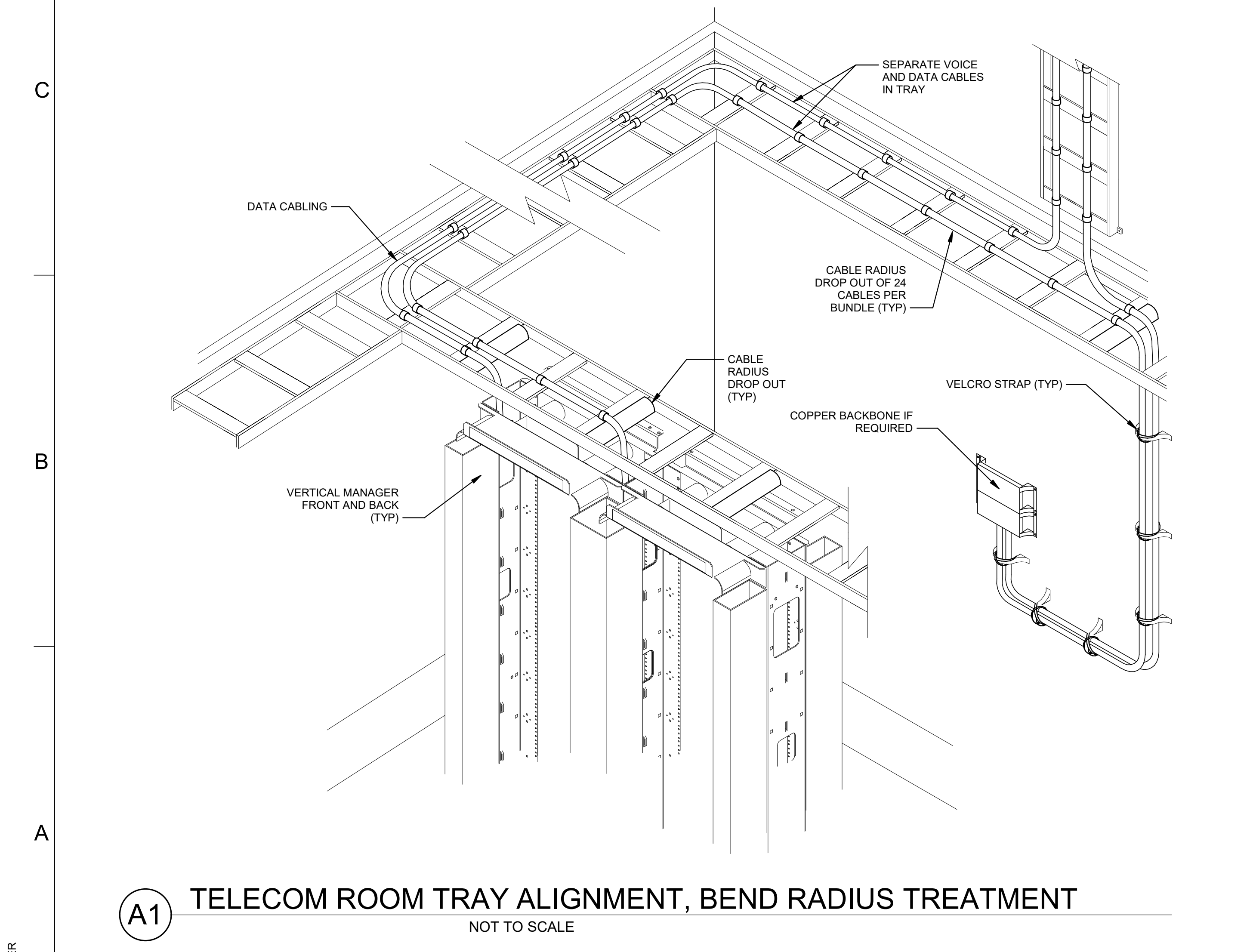
TN500

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D1

FLOOR BOX

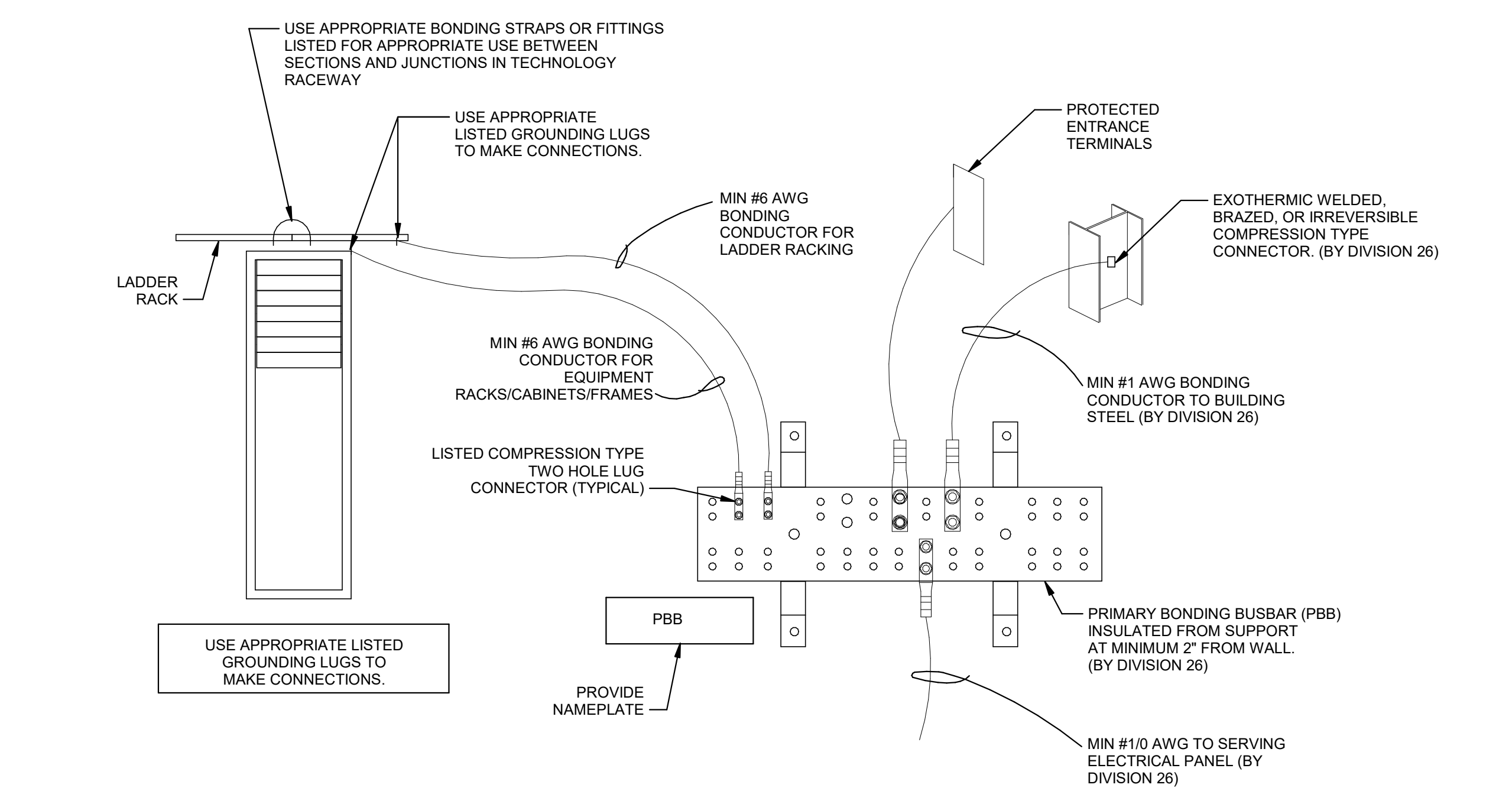
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D5

PBB CONNECTIONS DIAGRAM

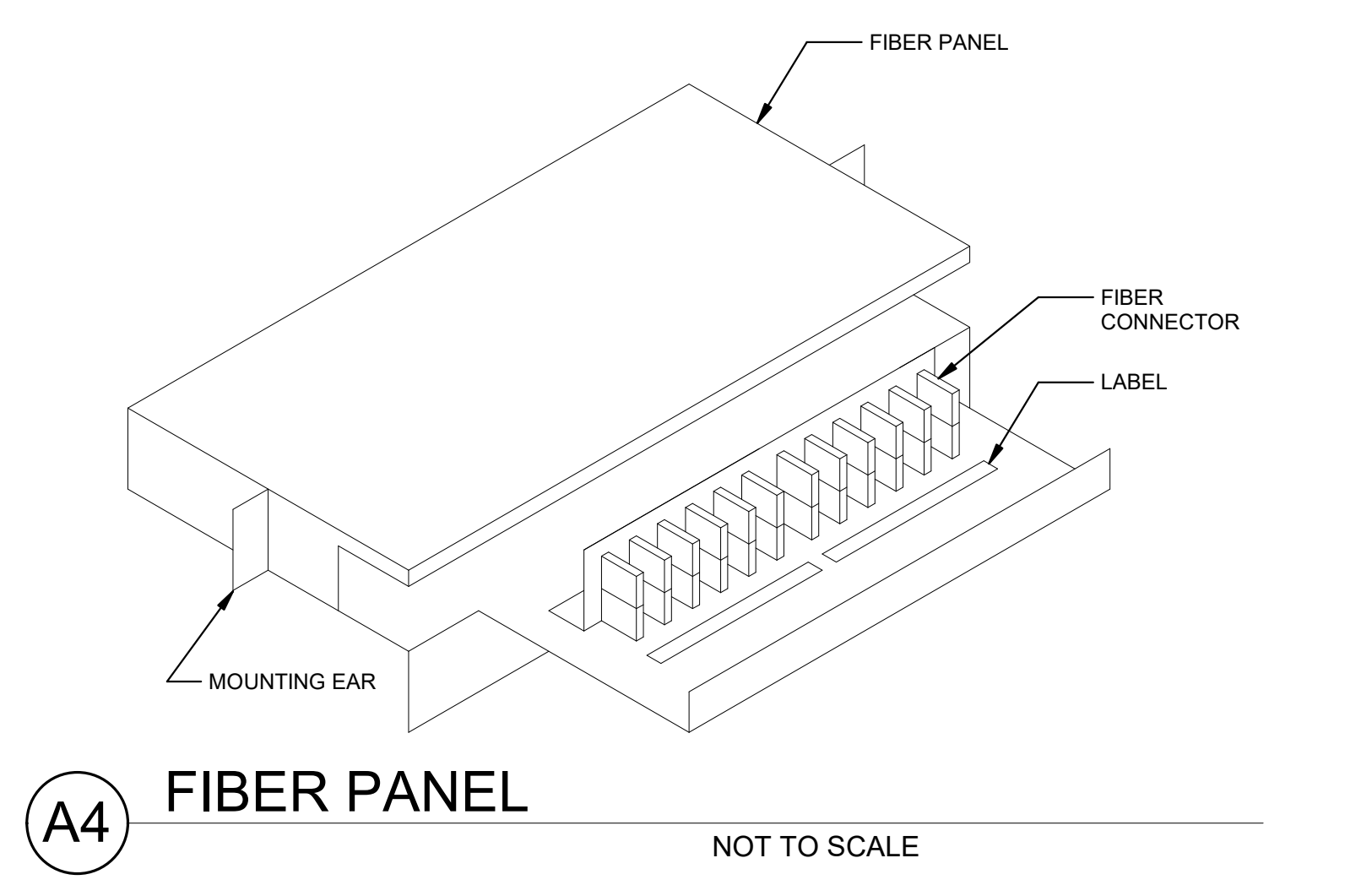
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FIRE STOP SYSTEM

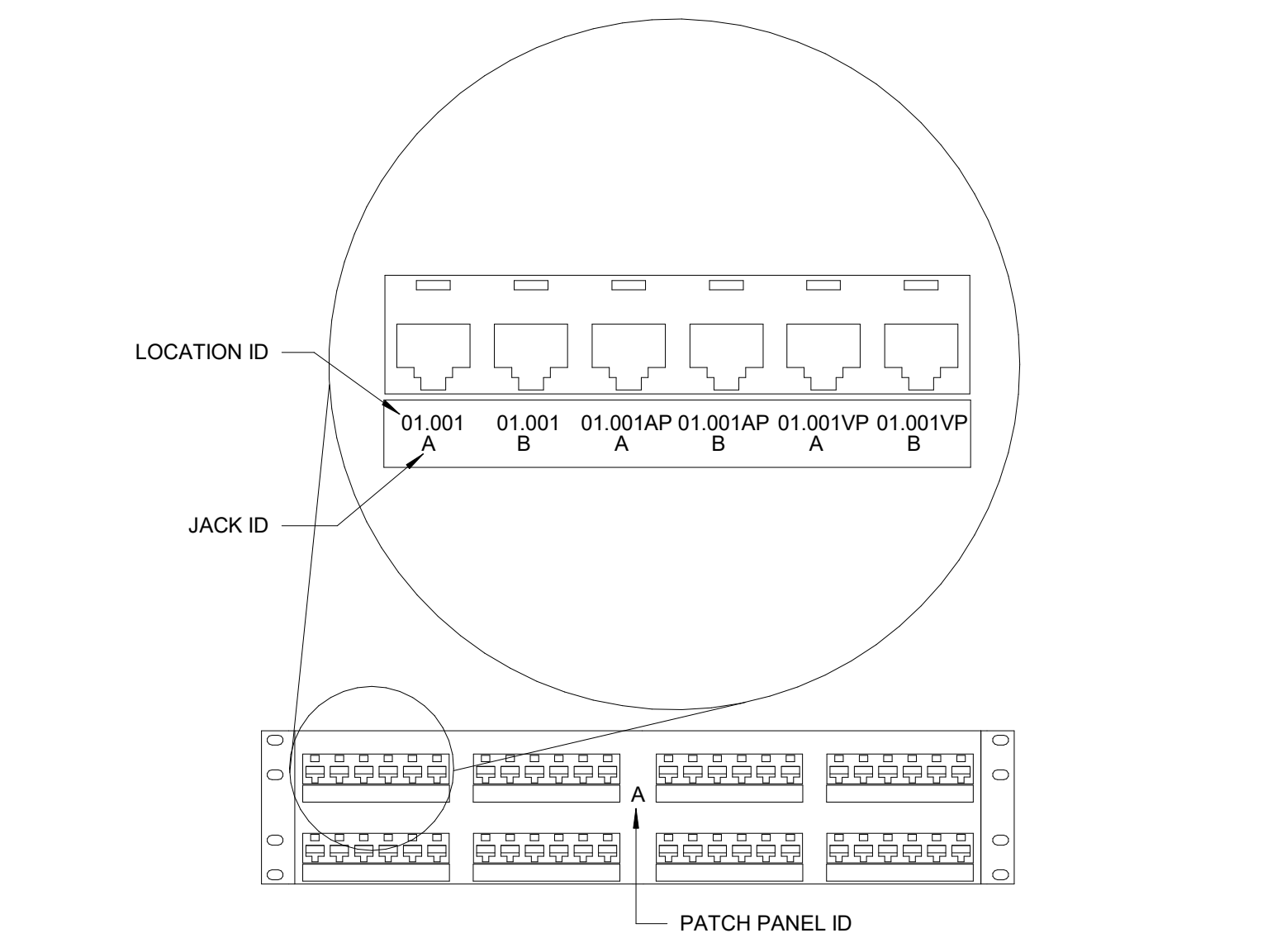
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B7

TYPICAL PATCH PANEL LABELING DETAIL

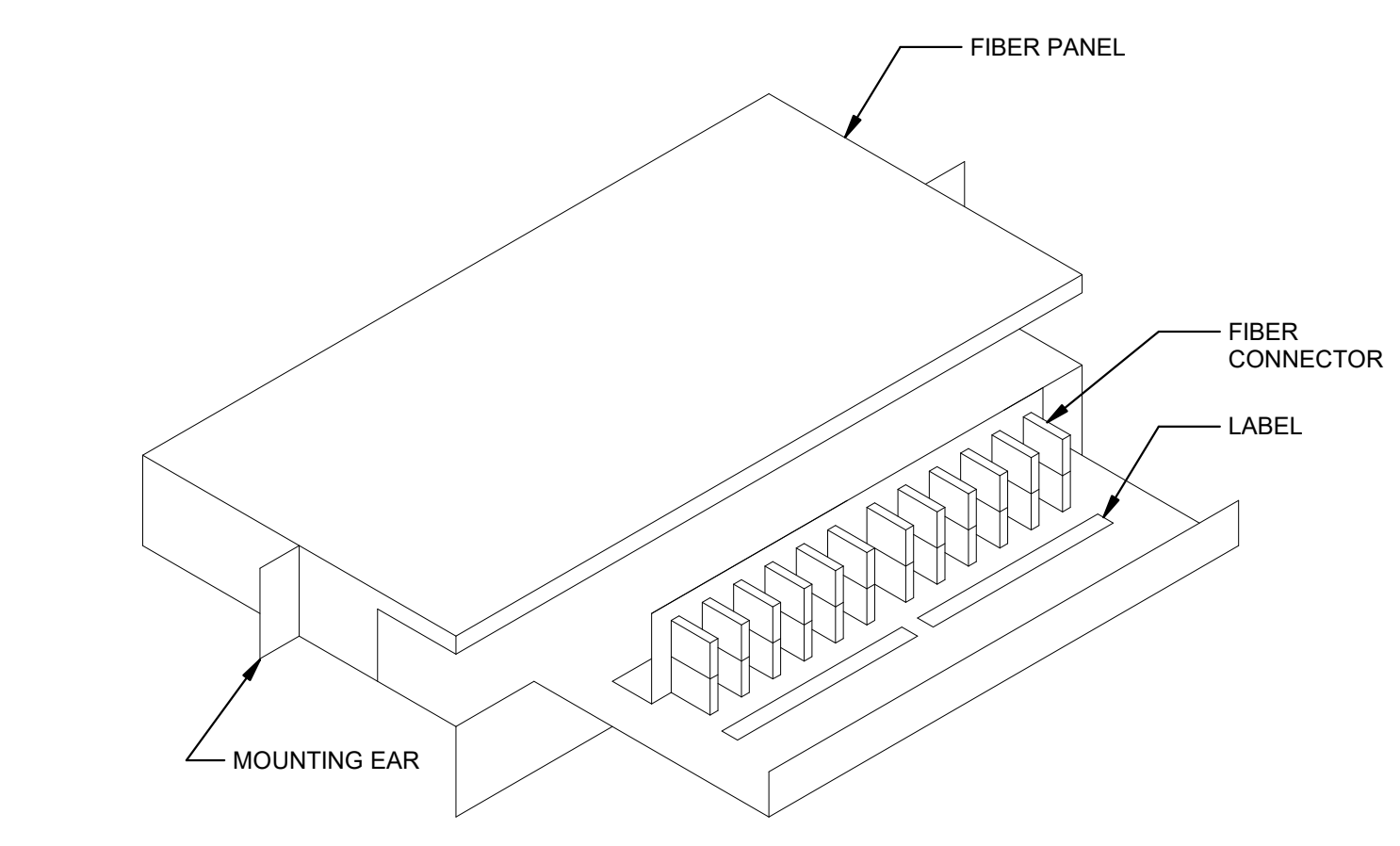
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A4

FIBER PANEL

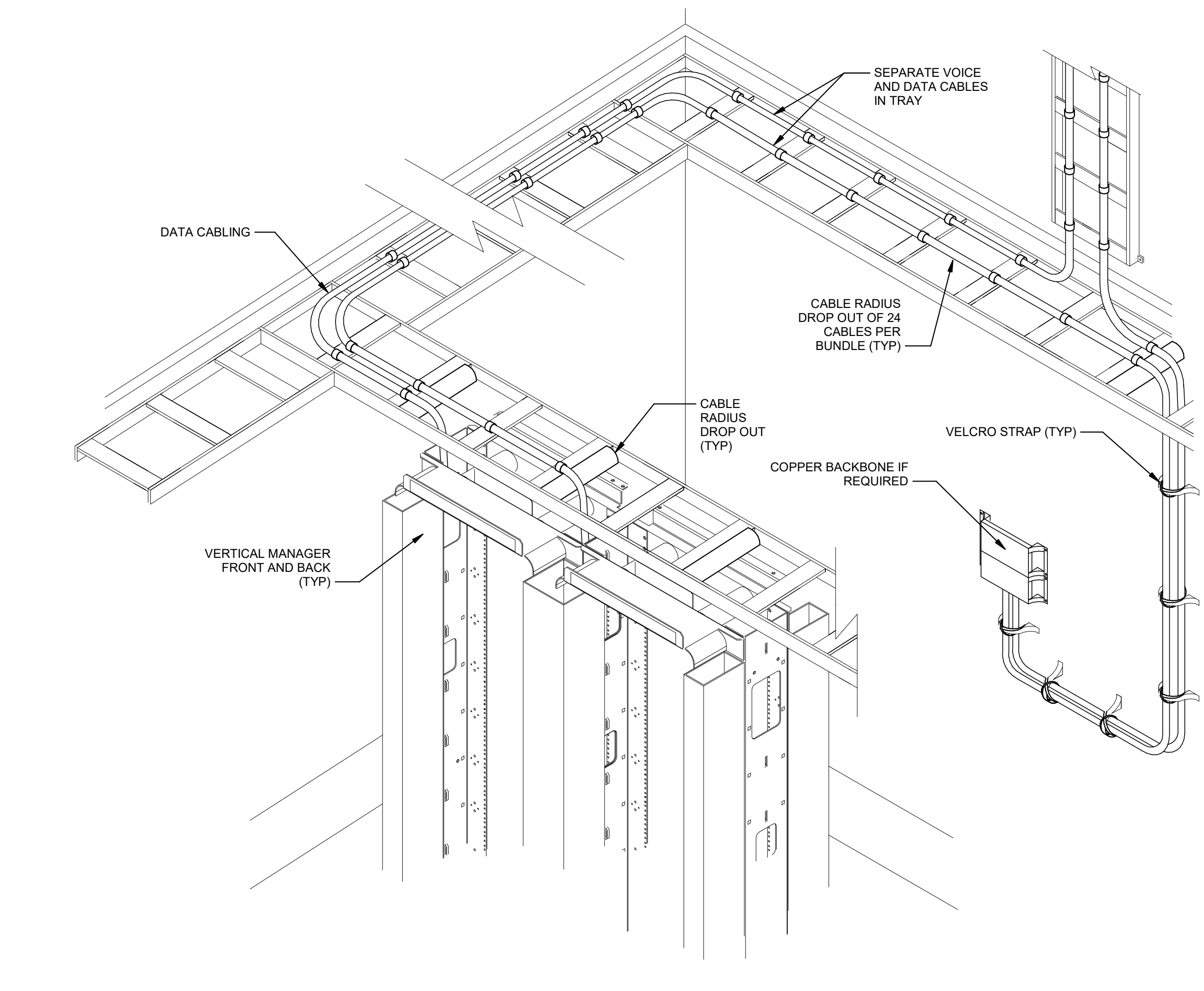
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A1

TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT

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100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:
Description Date

10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.CORONADO
CHK'D BY: M.MAURER

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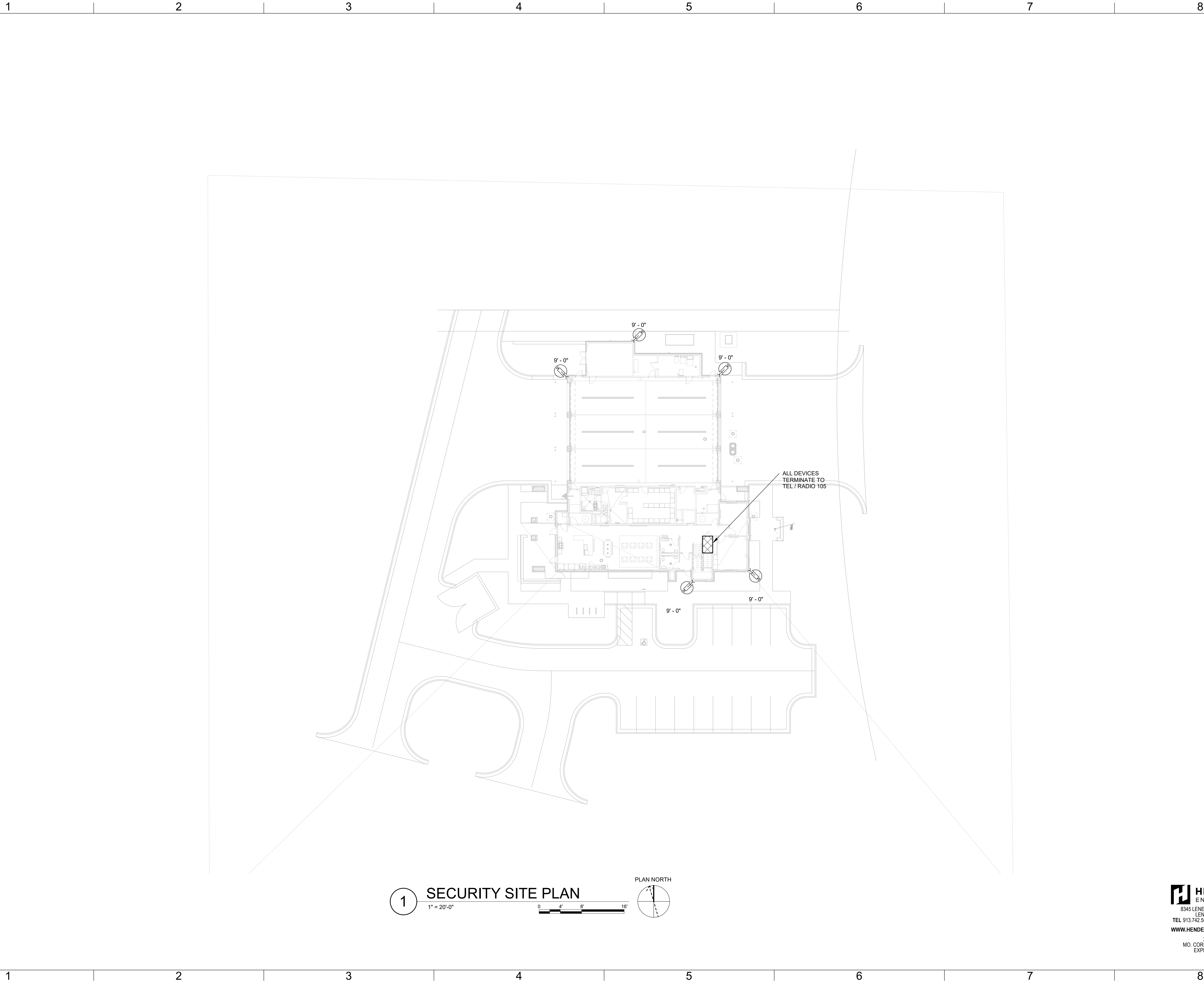
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MARK D. MAURER

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E



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DRAWN BY: R.GAMMON
CHK'D BY: M.MAURER

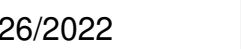
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SECURITY SITE
PLAN

TY100

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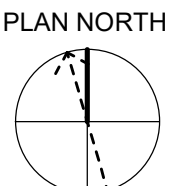
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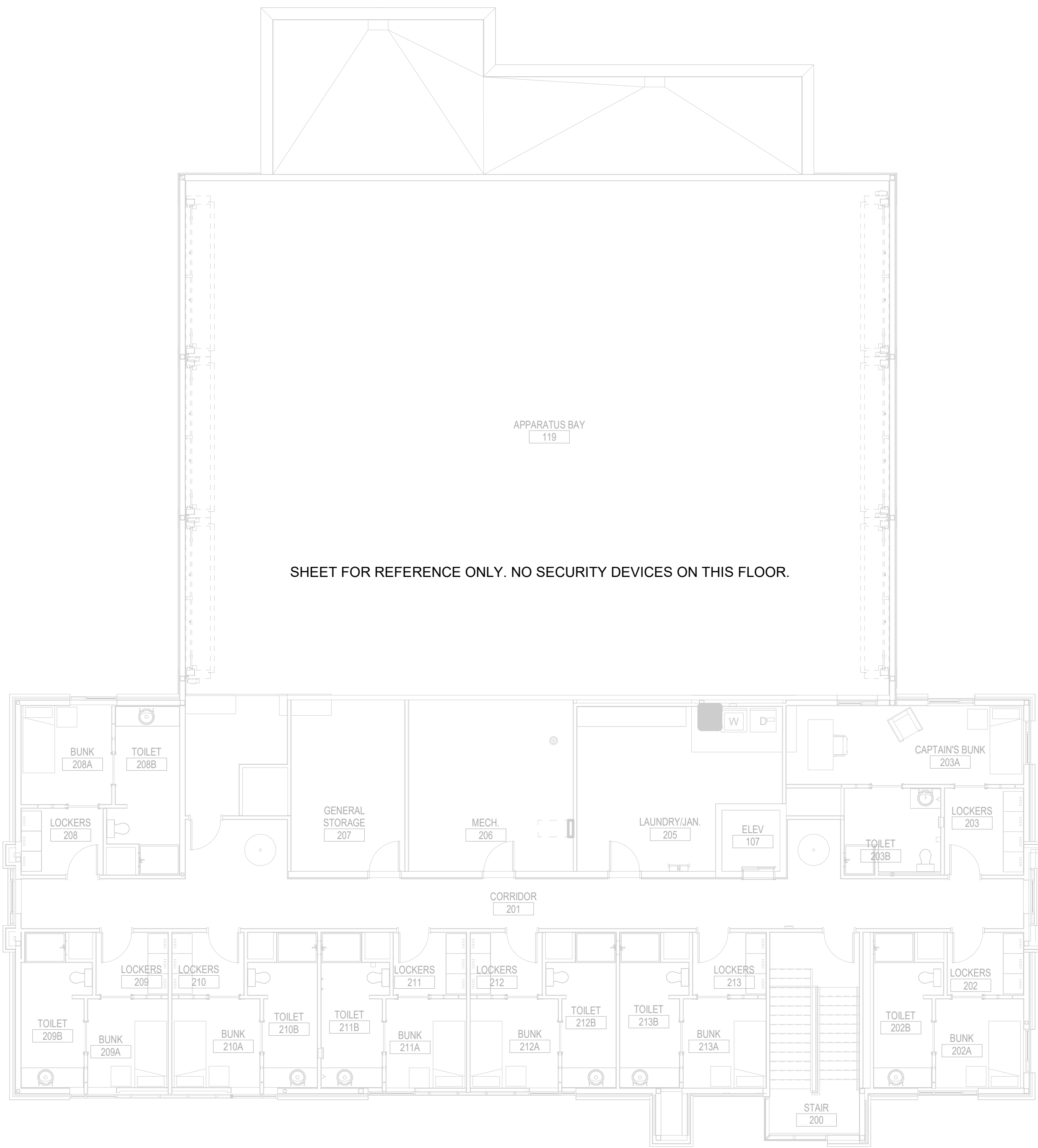
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A1

SECURITY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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SECURITY LEVEL
2 PLAN

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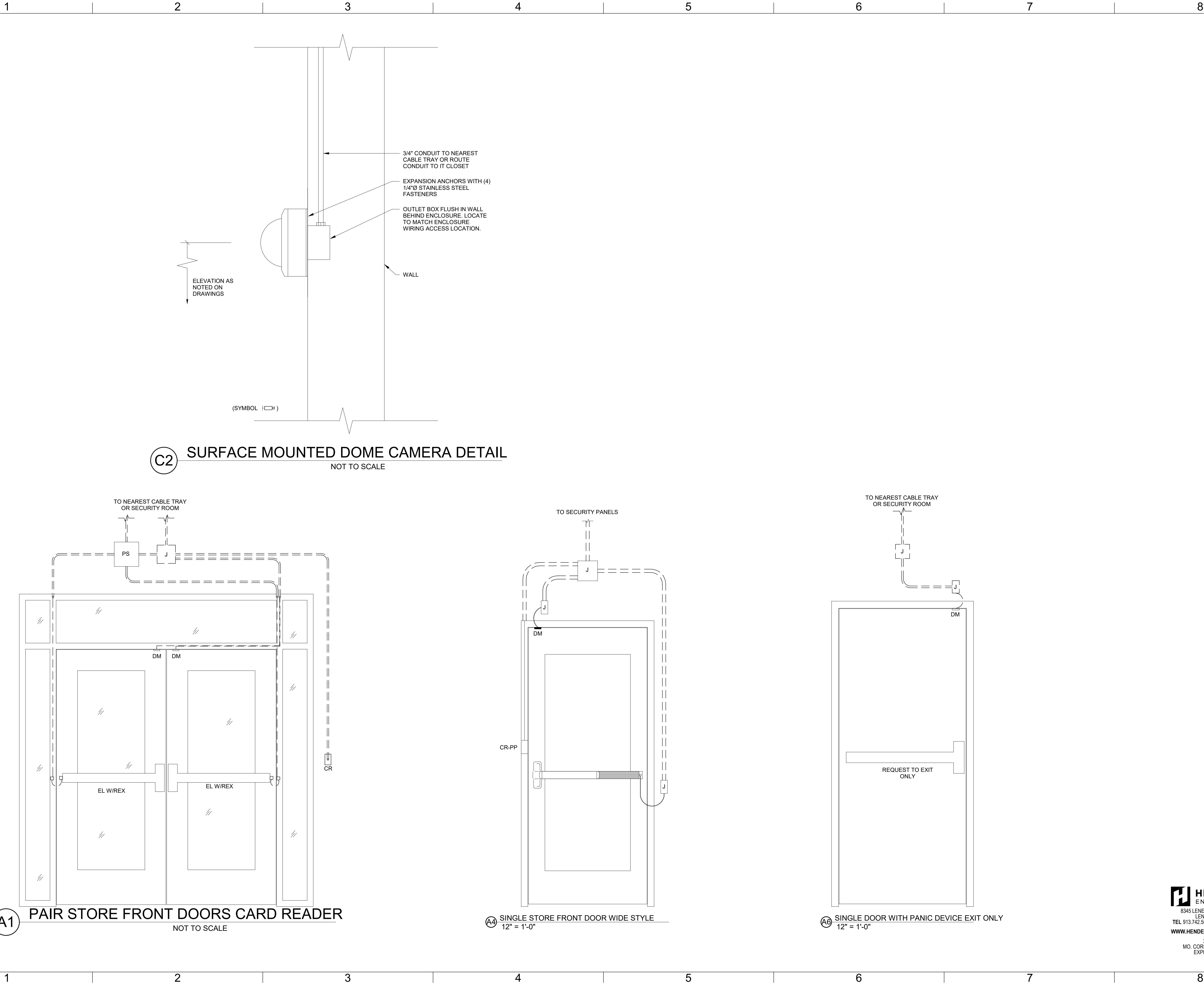
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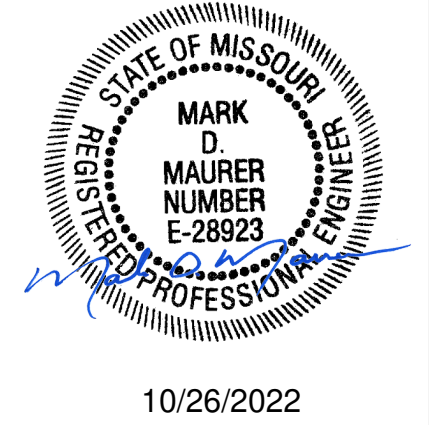
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