

A/C ACOUS ACT ADA ADJ AFF AFG ALFG ALT ALUM ANOD APC APPROX ARCH ATTEN A/V AVW BCS BD BETW BKS BLDG BOS BRK BRNG BUR CAB CD CEM CG СН CLG CLR CMU CO COMP CONC CONF CORR

CPT

CU

DEPT

DET

DIM

DIS

DISP

DRY

DS

DW DWG DWR

ACRE / ACRES AIR CONDITIONER / AIR CONDITIONING ACOUSTICAL ACOUSTICAL CEILING TILE AMERICANS with DISABILITIES ACT ADJUSTABLE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE/GROUND ALUMINUM FULL GLASS ALTERNATIVE / ALTERNATE ALUMINUM ANODIZED ACOUSTICAL PANEL CEILING APPROXIMATE ARCHITECTURAL ATTENUATION AUDIO / VISUAL AT VARIANCE WITH BABY CHANGING STATION BOARD

ΕA

EJ

EJC

EQ

FH

FJ

FT

FV

GA

GB

GFI

HB

HR

HT HVAC HEIGHT

HEATING / VENTILATING / AIR CONDITIONING

BETWEEN BOOK SHELF BUILDING BOTTOM OF STEEL BRICK BEARING BUILT-UP ROOFING

CLOCK CABINET / CABINETRY COMPUTER DESK CEMENTITIOUS BOARD CORNER GUARD COAT HOOK CONTROL JOINT CLOSET CEILING CLEAR CONCRETE MASONRY UNIT CLEAN OUT COMPUTER CONCRETE CONFERENCE

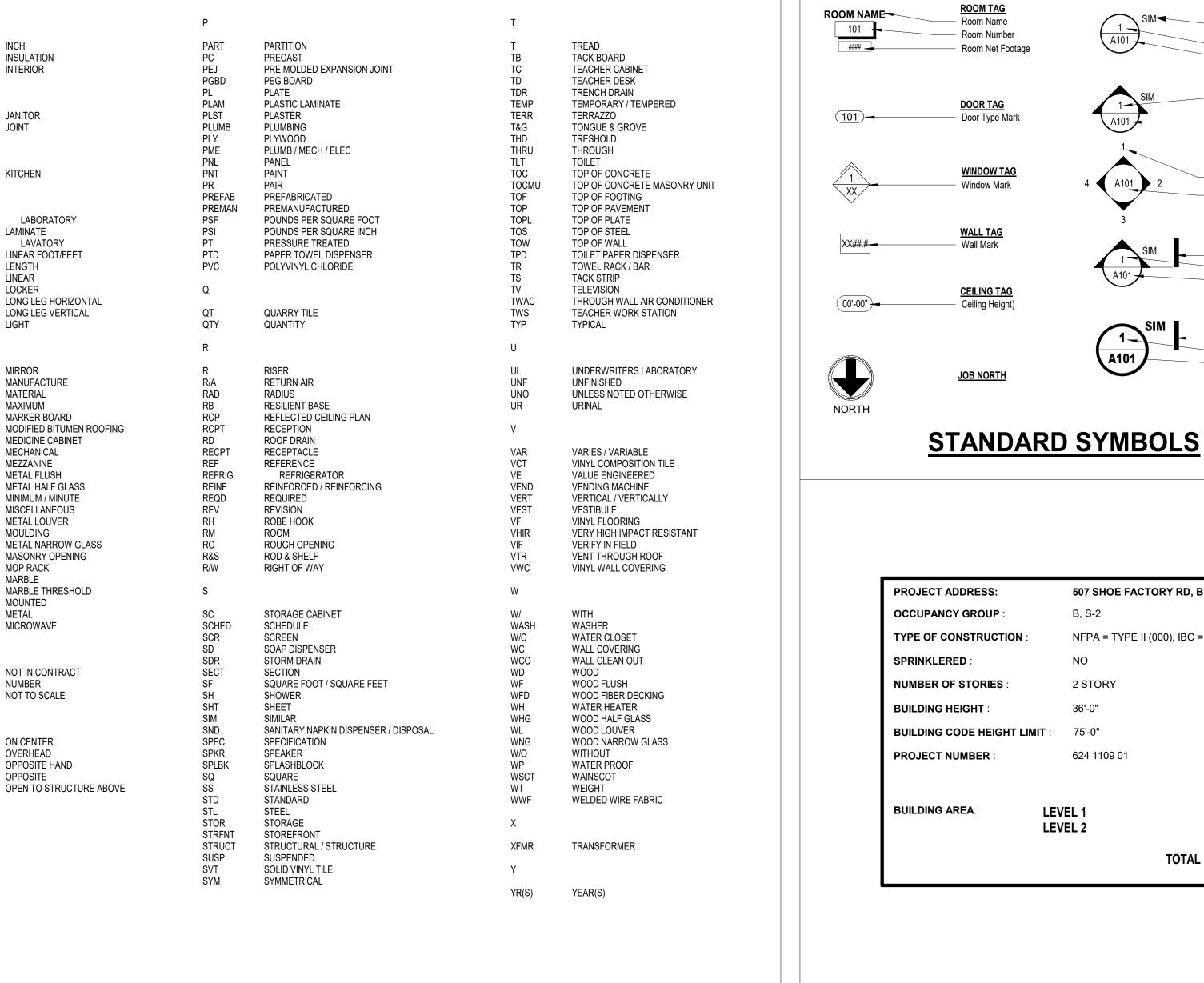
CORRIDOR CARPET COMPUTER STATION CERAMIC TILE CONDENSING UNIT

DUTCH DOOR DEPARTMENT DETAIL DRINKING FOUNTAIN DIMENSION **DISPLAY CASE / CABINET** DISPENSER DOWN DRYER DOWNSPOUT DISHWASHER DRAWING

DRAWER

INCH EACH ELECTRIC DRINKING FOUNTAIN INSUL INSULATION EDF EEW EMERGENCY EYE WASH INT INTERIOR EACH FACE EXTERIOR INSULATION FINISH SYSTEM EIFS EXPANSION JOINT EXPANSION JOINT COVER JANITOR JAN ELEC ELECTRICAL JOINT ELEV ELEVATOR EMER EMERGENCY EQUAL EQUIP KIT KITCHEN EQUIPMENT ELECTRIC SCORE BOARD ESB ETR EXISTING TO REMAIN EW EACH WAY EWC EXIST ELECTRIC WATER COOLER LABORATORY LAB EXISTING LAM LAMINATE EXP EXPANSION LAVATORY LAV EXT EXTERIOR LINEAR FOOT/FEET LGTH LENGTH LIN LINEAR LKR LOCKER FLUSH LONG LEG HORIZONTAL LLH FIRE ALARM LONG LEG VERTICAL LLV FLOOR CLEAN OUT FCO LIGHT FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FEC FINISH FLOOR MIRROR FUME HOOD MANUF MANUFACTURE FHC MAT FIRE HOSE CABINET MATERIAL FIN FINISH MAXIMUM MAX FLOOR JOINT MB MARKER BOARD FLASH FLASHING MBR FLR FLOOR MEDICINE CABINET MC FOC FACE OF CONCRETE MECH MECHANICAL FOE FACE OF EIFS MEZZ MEZZANINE FOUND FOUNDATION MF METAL FLUSH FRP FIBERGLASS REINFORCED PANEL MHG METAL HALF GLASS FOOT / FEET MIN MINIMUM / MINUTE FTG FOOTING MISC MISCELLANEOUS FURR FURRING METAL LOUVER FIELD VERIFY MLDG MOULDING FWD FLUSH WOOD DOOR METAL NARROW GLASS MNG MASONRY OPENING MO MOP RACK MRBL MARBLE GAUGE MARBLE THRESHOLD MT MTD GALV GALVANIZED MOUNTED GRAB BAR MTL METAL GB 24 24" GRAB BAR MW MICROWAVE GB 36 36" GRAB BAR GB 42 42" GRAB BAR GCO GROUND CLEAN OUT NOT IN CONTRACT GROUND FAULT INTERRUPT NIC GFRC GFRG GRD GRVL GT GLASS FIBER REINFORCED CONCRETE NUMBER NO NOT TO SCALE GLASS FIBER REINFORCED GYPSUM NTS GROUND GRAVEL GROUT GYPSUM ON CENTER GYP GYP BD GYPSUM BOARD OVERHEAD OH OPPOSITE HAND OPH OPP OPPOSITE OTSA OPEN TO STRUCTURE ABOVE HOSE BIBB HANDICAP HAND DRYER HDWR HARDWARE HM HOLLOW METAL HORZ HORIZONTAL HOUR

STANDARD ABBREVIATIONS



PROJECT DATA

SHEET INDEX SHT. NO. DESCRIPTION General Set G0.00 COVER SHEET G0.01 INDEX SHEET G1.10 BUILDING CODE SUMMARY G1.11 LEVEL 01 - LIFE SAFETY PLAN G1.21 UL DETAILS G1.22 UL DETAILS G1.23 UL DETAILS Civil Set C0.00 COVER C0.10 GENERAL NOTES & LEGEND C0.20 EXISTING CONDITIONS C0.30 SITE PLAN C0.40 GRADING PLAN C0.50 UTILITY PLAN C0.60 SITE PROFILES C0.70 EROSION CONTROL C0.80 EROSION CONTROL DETAIL (1 OF 3) C0.90 EROSION CONTROL DETAIL (2 OF 3) C1.00 EROSION CONTROL DETAIL (3 OF 3) C1.10 CONSTRUCTION DETAILS (1 OF 2) C1.20 CONSTRUCTION DETAILS (2 OF 2) C1.30 WATER AND SS DETAILS Structural Set S0.01 STRUCTURAL GENERAL NOTES S0.02 STRUCTURAL GENERAL NOTES S1.01 OVERALL FOUNDATION PLAN S1.02 FOUNDATION PLAN S2.01 OVERALL FRAMING PLAN S2.02 FLOOR FRAMING PLAN S2.03 ROOF FRAMING PLAN S3.01 TYPICAL FOUNDATION DETAILS S3.02 FOUNDATION DETAILS S3.03 FOUNDATION DETAILS S4.01 SECTIONS & DETAILS S4.02 SECTIONS & DETAILS S5.01 TYPICAL STEEL DETAILS S5.02 TYPICAL JOIST DETAILS S5.03 COMPOSITE STEEL TYPICAL DETAILS S6.01 TYPICAL CMU DETAILS Architecture Set A0.01 ARCHITECTURAL SITE PLAN A0.21 WALL TYPES AND CODES A0.31 WALL TYPE PLAN - LEVEL 01, LEVEL 02 A1.11 DIMENSION/REFERENCE PLAN - LEVEL 01, LEVEL 02 A1.21 ROOF PLAN A1.31 ROOF DETAILS A1.32 ROOF DETAILS A2.01 BUILDING ELEVATIONS A3.01 ENLARGED FLOOR PLANS - TOILET A3.02 ENLARGED FLOOR PLANS - EXTERIOR STAIR A3.03 ENLARGED FLOOR PLANS - ELEVATOR

| SHEET INDEX | | | | |
|---------------------|----------------------------------------|--|--|--|
| SHT. NO. | DESCRIPTION | | | |
| A3.11 | PLAN DETAILS | | | |
| A3.11 A4.01 | OVERALL BUILDING SECTIONS | | | |
| A4.01 A5.11 | WALL SECTIONS | | | |
| | | | | |
| A5.12 | WALL SECTIONS | | | |
| A5.13 A5.14 | WALL SECTIONS | | | |
| | WALL SECTIONS | | | |
| A5.15 | WALL SECTIONS | | | |
| A5.16 | WALL SECTIONS | | | |
| A5.17 | | | | |
| A5.21 | ENLARGED SECTIONS AND DETAILS | | | |
| A5.22 | ENLARGED SECTIONS AND DETAILS | | | |
| A5.23 | ENLARGED SECTIONS AND DETAILS | | | |
| A5.24 | ENLARGED SECTIONS AND DETAILS | | | |
| A6.11 | DOOR SCHEDULE | | | |
| A6.21 | DOOR AND WINDOW DETAILS | | | |
| A7.11 | INTERIOR ELEVATIONS | | | |
| A7.21 | INTERIOR ELEVATION DETAILS | | | |
| A8.01 | REFLECTED CEILING PLAN | | | |
| A9.11 | FINISH FLOOR PLAN AND FINISH SCHEDULE | | | |
| Plumbing set | | | | |
| P0.01 | PLUMBING LEGEND & SCHEDULES | | | |
| P1.01 | DRAINAGE & VENT PLANS | | | |
| P1.02 | HOT & COLD WATER PLANS | | | |
| P2.01 | PLUMBING RISER DIAGRAMS | | | |
| Fire Protection Set | | | | |
| FP0.00 | FIRE PROTECTION GENERAL NOTES | | | |
| Mechanical Set | | | | |
| M0.01 | MECHANICAL LEGEND & SCHEDULES | | | |
| M1.01 | MECHANICAL PLANS | | | |
| M2.01 | MECHANICAL SECTIONS | | | |
| M3.01 | MECHANICAL DETAILS | | | |
| Electrical Set | | | | |
| E0.01 | ELECTRICAL LEGEND & DETAILS | | | |
| E0.02 | LIGHTING DETAILS | | | |
| E0.03 | ELECTRICAL DETAILS | | | |
| E0.04 | ELECTRICAL SITE PLAN | | | |
| E0.05 | LIGHTING PROTECTION PLAN | | | |
| E1.01 | FLOOR PLAN - LIGHTING | | | |
| E2.01 | FLOOR PLAN - POWER | | | |
| E3.01 | FLOOR PLAN - MECHANICAL POWER | | | |
| E4.01 | FLOOR PLAN - FIRE ALARM SYSTEM | | | |
| E5.01 | POWER RISER DIAGRAM & DETAILS | | | |
| E5.02 | PANELBOARD SCHEDULES | | | |
| Telecommunications | | | | |
| T0.01 | TELECOMMUNICATIONS LEGEND & DETAILS | | | |
| T0.02 | TELECOMMUNICATIONS DETAILS | | | |
| T1.01 | FLOOR PLAN - TELECOMMUNICATION SYSTEMS | | | |
| | | | | |

INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS

INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS

INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS

INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA

NFPA 101 LIFE SAFETY CODE, 2018 EDITION WITH GEORGIA MODIFICATIONS

APPLICABLE CODES

PROJECT LOCATION -

VICINITY MAP

INTERNATIONAL FIRE CODE, 2018 EDITION WITH GEORGIA MODIFICATIONS

INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA

SUPPLEMENTS AND AMENDMENTS (2020), (2022), (2023)

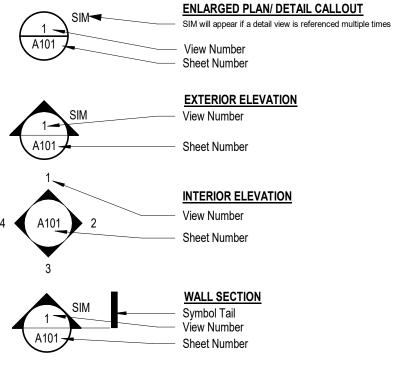
• ADA STANDARDS FOR ACCESSIBLE DESIGN, 2010 EDITION

(2020), (2022), (2024)

(2020), (2022), (2023), (2024)

AMENDMENTS (2020), (2024)

(2020), (2022)



SIM

507 SHOE FACTORY RD, BLAIRSVILLE, GA 30512

NFPA = TYPE II (000), IBC = TYPE IIB

A101

B, S-2

NO

2 STORY

36'-0"

75'-0"

LEVEL 1

LEVEL 2

624 1109 01

ROOM TAG

Room Name

Room Number

DOOR TAG Door Type Mark

WINDOW TAG

Window Mark

WALL TAG

Wall Mark

<u>CEILING TAG</u>

Ceiling Height)

JOB NORTH

Room Net Footage

| _ | Sheet Number |
|---|-----------------------------------|
| | EXTERIOR ELEVATION View Number |
| | Sheet Number |
| | INTERIOR ELEVATION |
| | View Number |
| | Sheet Number |
| | |

A3.04 ENLARGED FLOOR PLANS

WALL SECTION Symbol Tail View Number Sheet Number

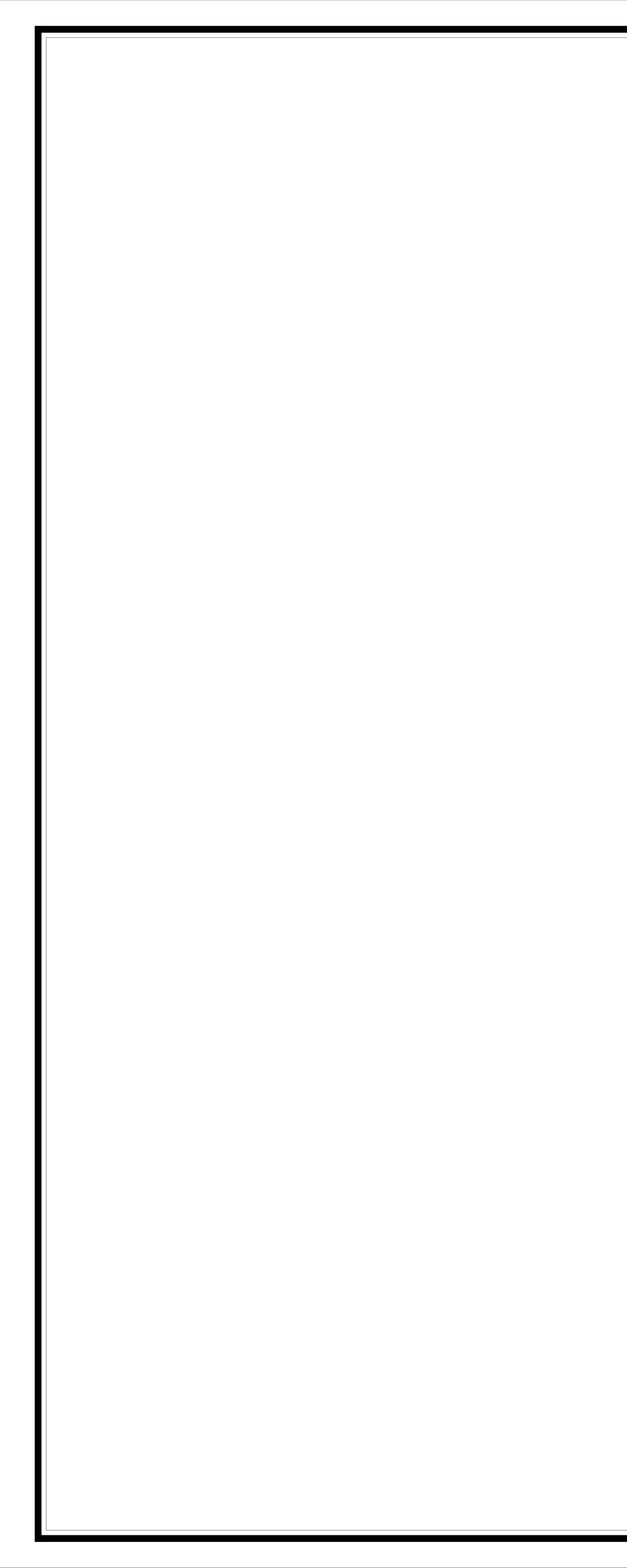
BUILDING SECTION Symbol Tail View Number Sheet Number

3,171 SF GROSS

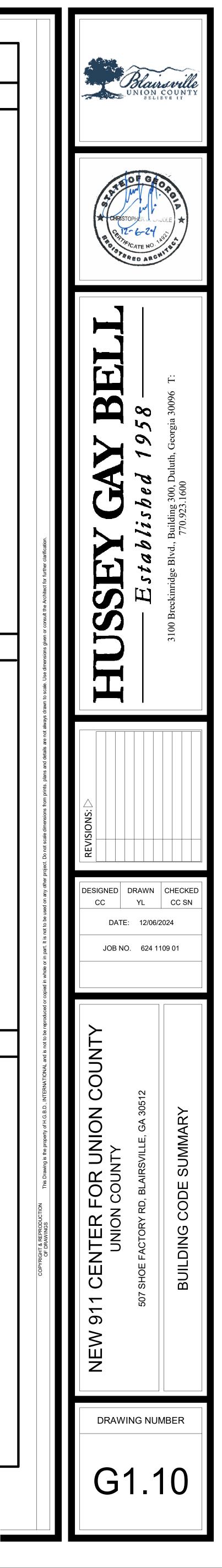
4,187 SF GROSS

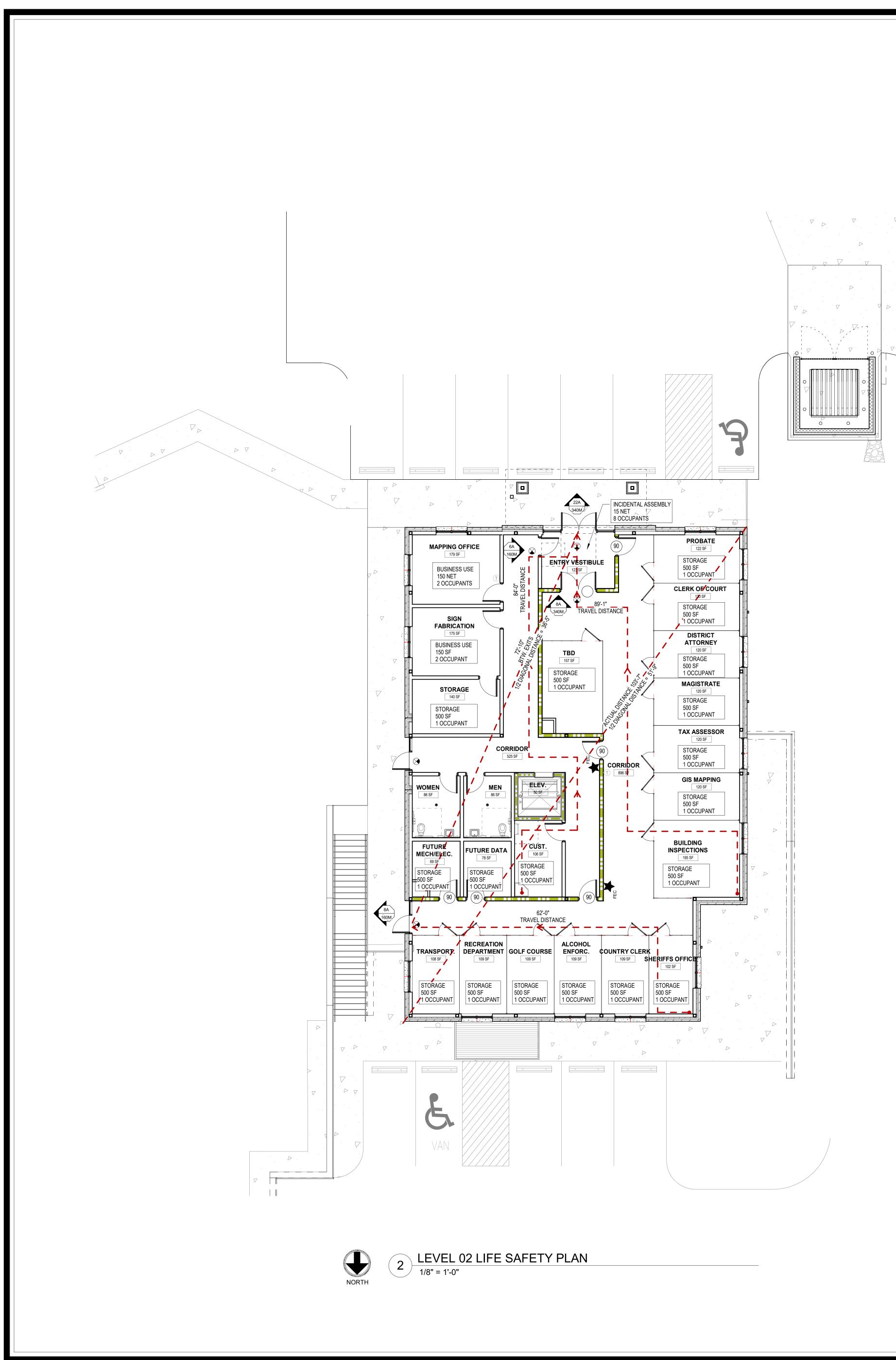
TOTAL 7,358 SF GROSS

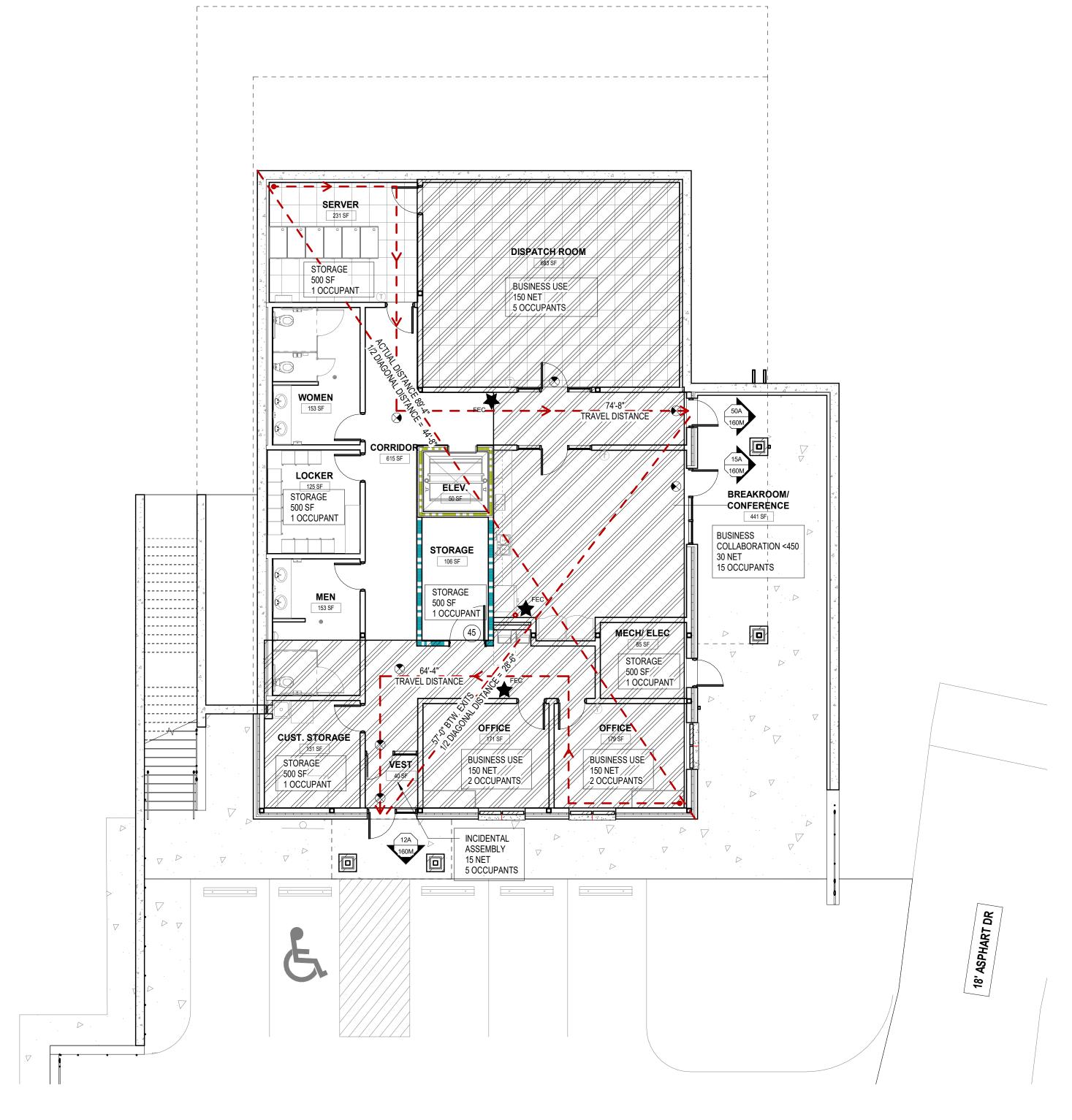




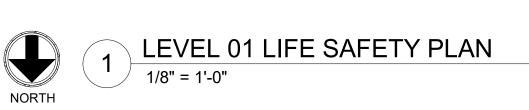
| | BUILDING CODE - PROJECT NAME | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| LIFE SAFETY CODE (NFPA 101) | INTERNATIONAL BUILDING CODE | PL | UMBING | FIXTURE C | OUNT |
| OCCUPANCY CLASSIFICATION | OCCUPANCY CLASSIFICATION | CHAPTER 6: | PLUMBING SYSTEMS (TABL | E 2902.1) | |
| CHAPTER 38: NEW BUSINESS OCCUPANCY CHAPTER 42: NEW STORAGE OCCUPANCY | CHAPTER 3: BUSINESS GROUP B SEPARATED MIXED USE OCCUPANCIES STORAGE GROUP S-2 | BUSINESS (28 AT LEVEL 1) | FIXTURE TYPE WATERCLOSET | <u>REQUIRED</u> 1 PER 25 (1 PER 50 AFTER 50) = 2 | <u>PROVIDED*</u> = 3 |
| GENERAL CODE INFORMATION | BUILDING HEIGHT AND AREA LIMITATIONS | (12 AT LEVEL 2) | LAVATORY DRINKING FOUNTAIN | 1 PER 40 (1 PER 80 AFTER 80) = 1 1 PER 100 = 1 | = 4 = 1 |
| CLASSIFICATION OF HAZARDS CONTENT (NFPA 101 38.1.5 & 42.1.5): ASSEMBLY = ORDINARY HAZARD AUTOMATIC SPRINKLER SYSTEM (NFPA13): ASSEMBLY = YES | IBC CONSTRUCTION TYPE = TYPE IIB GENERAL BUILDING HEIGHT & AREA LIMITATIONS FOR TYPE (SECTION 503): | | SERVICE SINK | NOT REQUIRED PER THE IBC 2020 AMMENDMENTS | = 0 |
| CONSTRUCTION TYPE (NFPA 220):ASSEMBLY = TYPE V (000) | BUILDING (B):NUMBER OF STORIES ALLOWED:4AREA PER FLOOR ALLOWED:69,000 SF | STORAGE (5 AT LEVEL 1) (18 AT LEVEL 2) | WATERCLOSET | 1 PER 100 = 1 | = 2 |
| MEANS OF EGRESS CODE DATA | MAXIMUM HEIGHT ALLOWED: 75'-0" (ACTUAL = 36' - 0") <u>STORAGE (S-2):</u> | | LAVATORY DRINKING FOUNTAIN | 1 PER 100 = 1 1 PER 1000 = 1 | = 2 |
| CHAPTER 7 TABLE 7.3.1.2 OCCUPANT LOAD FACTOR (SEE LIFE SAFETY PLANS) | NUMBER OF STORIES ALLOWED:4(ACTUAL = 2 STORY)AREA PER FLOOR ALLOWED:78,000 SFMAXIMUM HEIGHT ALLOWED:75'-0"(ACTUAL = 36' - 0") | | SERVICE SINK | NOT REQUIRED PER THE IBC 2020 AMMENDMENTS | = 1 = 1 |
| LIFE SAFETY OCCUPANT LOAD FACTOR LIFE SAFETY OCCUPANT LOAD FACTOR NAME AREA PERSONS NAME AREA PERSONS | LEVEL 1 3,171 SF GROSS LEVEL 2 4,187 SF GROSS | | | | |
| LEVEL 01 LEVEL 02 BUSINESS COLLABORATION <450 (30 SF PER PERSON) | TOTAL BUILDING AREA: 7,358 SF GROSS | <u>TOTAL</u> | FIXTURE TYPE WATERCLOSET | REQUIRED = 3 | PROVIDED = 5 |
| 441.27 SF15 PERSONSSIGN FABRICATION175.20 SF2BUSINESS USE (150 SF GROSS PER PERSON)353.84 SF4 PERSONSDISPATCH ROOM683.08 SF5INCIDENTAL ASSEMBLY (15 SF PER PERSON) | | | LAVATORY | = 2 | = 6 |
| OFFICE 179.37 SF 2 ENTRY VESTIBULE 122.62 SF 8 OFFICE 170.82 SF 2 122.62 SF 8 122.62 SF 8 1033.27 SF 9 PERSONS STORAGE (500 SF PER PERSON) 139.92 SF 1 INCIDENTAL ASSEMBLY (15 SF PER PERSON) STORAGE 139.92 SF 1 | CONSTRUCTION TYPE CLASSIFICATION | | DRINKING FOUNTAIN SERVICE SINK | = 2 = 1 | = 2 = 1 |
| VEST 39.58 SF 3 CUST. 106.28 SF 1 39.58 SF 3 PERSONS FUTURE DATA 77.77 SF 1 STORAGE (500 SF PER PERSON) FUTURE MECH/ELEC. 69.37 SF 1 CUST. STORAGE 131.48 SF 1 TRANSPORT. 108.21 SF 1 | CHAPTER 6: TYPES OF CONSTRUCTION (SECTION 602.5 AND TABLE 601) | | | | |
| Indication Indication Indication Indication LOCKER 124.89 SF 1 RECREATION DEPARTMENT 109.05 SF 1 SERVER 230.88 SF 1 GOLF COURSE 109.05 SF 1 STORAGE 106.48 SF 1 ALCOHOL ENFORC. 109.05 SF 1 | TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS) BUILDING ELEMENT TYPE I TYPE I TYPE II TYPE II TYPE II TYPE IV | | | | |
| MECH/ ELEC 84.88 SF 1 COUNTRY CLERK 109.05 SF 1 678.60 SF 5 PERSONS SHERIFFS OFFICE 101.50 SF 1 2192.72 SF 32 PERSONS BUILDING INSPECTIONS 195.19 SF 1 | ABABABHTABPrimary structural frame ^f (see Section 202) $3^{a,b}$ $2^{a,b}$ 1^{b} 0 1^{b} 0 HT 1^{b} 0 Bearing walls $ -$ | | | | |
| GIS MAPPING 119.62 SF 1 TAX ASSESSOR 119.62 SF 1 MAGISTRATE 119.62 SF 1 DISTRICT ATTORNEY 119.62 SF 1 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | |
| DISTRICT ATTORNET T19.02 SF CLERK OF COURT 119.62 SF PROBATE 122.08 SF TBD 157.41 SF | Nonbearing walls and partitions 0 0 0 0 0 See Section 2304.11.2 0 0 | | | | |
| 2112.06 SF 18 PERSONS 2588.51 SF 30 PERSONS Grand total 4781.23 SF 62 PERSONS | Floor construction and associated secondary members (see Section 202)221010HT10Roof construction and associated secondary members $1^{1/2^b}$ $1^{b,c}$ $1^{b,c}$ 0^c $1^{b,c}$ 0HT $1^{b,c}$ 0 | GENE | ERAL FIR | RE MARSHAI | L NOTES |
| | (see Section 202) For SI: 1 foot = 304.8 mm. a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only. b. Except in Group F-1. H. M and S-1 occupancies, fire protection of structural members in roof construction shall not be required, including protection of | MARSHAL'S OFF | CONTRACTOR SHALL OBT FICE PRIOR TO INSTALLA ⁻ | TAIN A FIRE ALARM SYSTEM PERM TION. ANY FIRE ALARM PLANS INC | |
| CHAPTER 7 - CONTINUED EGRESS CAPACITY FACTORS (TABLE 7.3.3.1): STAIRS= 0.3" PER PERSON (EXTERIOR STAIRS ONLY - NO EGRESS STAIRS) | primary structural frame members, roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members. c. In all occupancies, heavy timber complying with Section 2304.11 shall be allowed where a 1-hour or less fire-resistance rating is required. d. Not less than the fire-resistance rating required by other sections of this code. e. Not less than the fire-resistance rating based on fire separation distance (see Table 602). | 2. INSULATING N | | T FOR PERMIT. A FLAME SPREAD INDEX OF NOT M 450 AS DETERMINED IN ACCORDA | |
| SEE 7.3.3.2 FOR EXPANDED STAIR CAPACITY OTHER = 0.2" PER PERSON FOR STAIRS & CORRIDORS WIDER THAN 44" (MINIMUM CORRIDOR WIDTH = 44", LEVEL 1 (TOTAL PER FLOOR): LEVEL 1 (TOTAL PER FLOOR): ACTUAL WIDTH OF CORRIDOR(S) = 72") LEVEL = 0.2 x 33 PERSONS = 6.6" | f. Not less than the fire-resistance rating as referenced in Section 704.10. TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE ^{a, d, g} | BARRIER WALLS | S, SMOKE BARRIER WALL | DENTIFY ALL FIRE-RESISTANT-RA .S, FIRE PARTITIONS, FIRE WALLS, ENCILING IN CONCEALED SPACES | AND SHAFT ENCLOSURES |
| LEVEL 2 (TOTALS PER FLOOR): LEVEL = 0.2 x 30 PERSONS = 6.0" | FIRE SEPARATION DISTANCE = X (feet)TYPE OF CONSTRUCTIONOCCUPANCY GROUP HeOCCUPANCY GROUP F-1, M, S-1fOCCUPANCY GROUP A, B, E, F-2, I, R ⁱ , S-2, U ^h $X < 5^b$ All321 $5 < X < 10$ IA321 | SPACED NO MO | | PROTECT ALL OPENINGS." IDEN EET ON CENTER WITH A MINIMUM BACKGROUND. | |
| NUMBER OF MEANS OF EGRESS (SECTION 7.4.1.2): OCCUPANT LOAD < 500 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | OPERATE PER N | NFPA 101 LIFE SAFETY CC | TO THE USE OF A KEY OR REQUIR DDE, 2000 EDITION, CHAPTER 7-2.1 | .5.1. |
| LEVEL 1: 2 REQUIRED, 3 PROVIDED (SEE PLAN) LEVEL 2: 2 REQUIRED, 2 PROVIDED (SEE PLAN) | $X \ge 30$ All00For SI: 1 foot = 304.8 mm.a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601. | 0.7.22000102 | | | |
| COMMON PATH, DEAD END & TRAVEL DISTANCE COMMON PATH OF TRAVEL (STORAGE) = 50' (SECTION 38.2.5.2.2, 38.2.5.3.2, 38.2.6.2, (BUSINESS) = 100' NOT SERVING MORE | b. See Section 706.1.1 for party walls. c. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating. d. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located. e. For special requirements for Group H occupancies, see Section 415.6. | | | | |
| 42.2.5, 42.2.6): DEAD END CORRIDOR (STORAGE) = 50' (BUSINESS) = 20' TRAVEL DISTANCE (STORAGE) = 200' 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 00000 - 00000 - 0000 - 0000 - 0000 - 00000 - | f. For special requirements for Group S aircraft hangars, see Section 412.3.1. g. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours. h. For a building containing only a Group U occupancy private garage or carport, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater. | | | | |
| (BUSINESS) = 200' SEE LIFE SAFETY PLANS FOR ACTUAL DISTANCES | i. For a Group R-3 building of Type II-B or Type V-B construction, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater. | | | | |
| | | | | | |
| | | | | | |
| NFPA 101 FIRE RATED COMPONENTS | BUILDING CODES | | LIFE S | AFETY NOTE | S |
| CHAPTER 8 HAZARDOUS MATERIALS 38.2.11.3 : WHERE HAZARDOUS MATERIALS ARE STORED, USED, OR HANDLED, THE | INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2022), (2024) | 1. SEE ELECTRI SPECIFICATION | | ERGENCY LIGHTING LOCATIONS, C | RCUITING, AND |
| PROVISIONS OF 7.12.2 SHALL APPLY. PROTECTION FROM HAZARDS 38.3.2.1 : HAZARDOUS AREAS INCLUDING, BUT NOT LIMITED TO, AREAS USED FOR GENERAL STORAGE, BOILER OR FURNACE ROOMS, AND MAINTENANCE SHOPS THAT INCLUDE WOODWORKING AND PAINTING AREAS SHALL BE | INTERNATIONAL FIRE CODE, 2018 EDITION WITH GEORGIA MODIFICATIONS INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2022), (2023), (2024) | SATISFY CHAPT AND VISIBLE AL | ER 7 OF THE ADA STAND ARMS AND NOTIFICATION | MENTS THAT ARE REQUIRED TO E ARDS FOR ACCESSIBLE DESIGN. A APPLIANCES SHALL BE INSTALLE A COMMERCIAL LIGHT AND POWE | ACCESSIBLE AUDIBLE ED IN ACCORDANCE |
| SHOPS THAT INCLUDE WOODWORKING AND PAINTING AREAS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 8.7. HAZARDOUS MATERIALS 42.2.11.3 : WHERE HAZARDOUS MATERIALS ARE PRESENT, THE PROVISIONS OF 7.12.2 SHALL APPLY. | INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2024) INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2022) NATIONAL ELECTRICAL CODE, 2020 EDITION WITH GEORGIA AMENDMENTS (2021) | PERMANENTLY PERMANENTLY 3. EVERY OCCU | CONNECTED TO THE WIF INSTALLED. | RING OF THE PREMISES ELECTRIC UILDING, ROOM OR SPACE USED F | AL SYSTEM, AND BE |
| PROTECTION FROM HAZARDS 42.3.2 : WHERE HAZARDOUS MATERIALS ARE STORED, USED, OR HANDLED, THE PROVISIONS OF 8.7.3.1 SHALL APPLY. | INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020), (2022), (2023) NFPA 101 LIFE SAFETY CODE, 2018 EDITION WITH GEORGIA MODIFICATIONS ADA STANDARDS FOR ACCESSIBLE DESIGN, 2010 EDITION | BE PROVIDED W WITH CHAPTER | VITH AISLES LEADING TO 12 OF THE NFPA . | LES, DISPLAYS, SIMILAR FIXTURES EXITS OR EXIT ACCESS DOORWA | YS IN ACCORDANCE |
| | ADA STANDARDS FOR ACCESSIBLE DESIGN, 2010 EDITION | 5. PROVIDE FIRE JURISDICTION F | E EXTINGUISHERS PER N | AND EMERGENCY LIGHTING AS RI FPA 10, INTERNATIONAL FIRE COD DCATION AND NUMBER TO BE DET | DE AND LOCAL |
| BUSINESS - CORRIDORS, 38.3.6.1: EXCEPTION 2 - WITHIN A SPACE OCCUPIED BY A SINGLE TENANT STORAGE - CORRIDORS, 42.3.6 : THE PROVISIONS OF 7.1.3.1 SHALL NOT APPLY | | | DTECTION DRAWINGS FO EAD LOCATIONS. | R FIRE EQUIPMENT LOCATIONS, IN | NCLUDING SPRINKLER |
| BUSINESS - STORAGE, 6.1.14.4.1: WHERE SEPARATED OCCUPANCIES ARE PROVIDED, EACH PART OF THE BUILDING COMPRISING A DISTINCT OCCUPANCY, AS DESCRIBED IN THIS CHAPTER, SHALL BE COMPLETELY SEPARATED FROM OTHER OCCUPANCIES BY FIRE BARRIERS, AS SPECIFIED IN TABLE 6.1.14.4.1(a), TABLE 6.1.14.4.1(b), AND 6.1.14.4.2 THROUGH 6.1.14.4.4, UNLESS SEPARATION IS PROVIDED BY APPROVED EXISTING SEPARATIONS OR AS OTHERWISE PERMITTED BY 6.1.14.4.6. | | | | | |
| CONSTRUCTION TYPE (NFPA 220 CHAPTER 4): FIRE RESISTANCE RATING FOR TYPE IIB (000) CONSTRUCTION (HR) (NFPA 220, TABLE 4.1.1). | | | | | |
| CONSTRUCTION HOURLY RATING DESIGN ELEMENT REQUIREMENT REFERENCE | | | | | |
| EXTERIOR BEARING WALLS 0 HR.* N/A INTERIOR BEARING WALLS 0 HR. N/A COLUMNS 0 HR. N/A REAMS CIRDERS TRUSSES & ARCHES 0 HR | | | | | |
| BEAMS, GIRDERS, TRUSSES & ARCHES 0 HR. N/A FLOOR CEILING ASSEMBLIES 0 HR. N/A ROOF CEILING ASSEMBLIES 0 HR. N/A INTERIOR NONBEARING WALLS 0 HR. N/A | | | | | |
| INTERIOR NONBEARING WALLS <u>0 HR.</u> EXTERIOR NONBEARING WALLS <u>0 HR.*</u> <u>N/A</u> | | | | | |



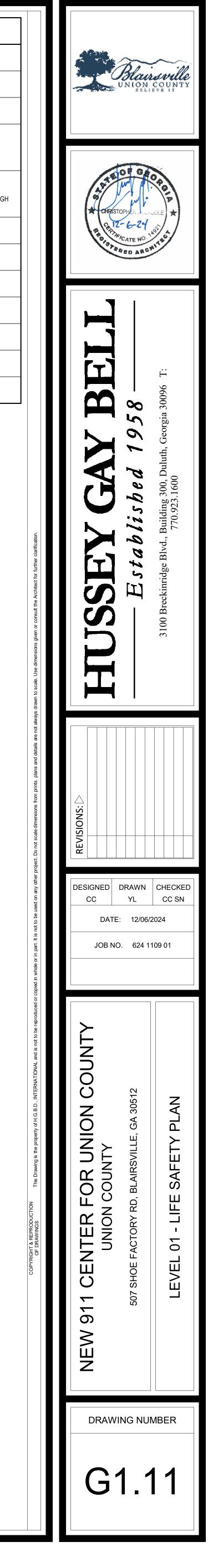




| JCTION I | DOCUMENT | PACKAGE |
|-----------------|----------|---------|
| | | |



| LIFE SAFETY PLAN L | EGEND | |
|-----------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | METAL STUD WALL (NON FIRE RATED) |
| <u>0 1 1000 1 1000 1 1000 1 1000 1 1000 1</u> | METAL STUD | 1 HOUR RATED WALL - METAL STUD |
| | CMU METAL STUD | 2 HOUR RATED WALL - CMU WALL AND METAL STUD |
| ROOM NAME 101 #### SF | | ROOM TAG ROOM NAME ROOM NUMBER ROOM SQUARE FEET |
| ?A ?M | | EGRESS CAPACITY TAG ACTUAL NUMBER OF PERSONS EXITING THROUGH THE DOOR MAX NUMBER OF PERSON ALLOWED BY CODE TO EXIT THROUG THE DOOR (THE CLEAR WIDTH OF THE DOOR DIVIDED BY .2) |
| | | TRAVEL DISTANCE |
| ۲ | | EXIT SIGN LOCATION - SEE ELECTRICAL |
| (45) | | DOOR FIRE RATING IN MINUTES |
| FEC | | FIRE EXTINGUISHER CABINET LOCATION |
| | | 2 HOUR RATED FLOOR AND CEILING BETWEEN LEVEL 01 AND LEVEL 02 |
| | | |
| | | |



START UL DETAIL HW-D-0042 XHBN.HW-D-0042 | UL Product iQ 8/24/23, 3:16 PM 8/24/23, 3:16 PM UL Product **iQ**® Solutions CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — SDT250, SDT300 MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT METAL-LITE INC — The System 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, OLMAR SUPPLY INC — STT250, STT300 equipment, system, devices, and materials. • Authorities Having Jurisdiction should be consulted before construction. R & P SUPPLY — SCT250, SCT300 • 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 RAM SALES L L C — RAM Slotted Track 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. SCAFCO STEEL STUD MANUFACTURING CO Only products which bear UL's Mark are considered Certified. TELLING INDUSTRIES L L C — True-Action Deflection Track A2. Light Gauge Framing* — Vertical Deflection Ceiling Runner — When the nor may be used as an alternate to the ceiling runners in Items 2A and 2A1. Vertical defle lips mechanically fastened within runner. Slotted clips provided with step bushings XHBN - Joint Systems (Item 2C). Vertical deflection ceiling runner installed perpendicular to direction of flu XHBN7 - Joint Systems Certified for Canada welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resis used prior to the installation of the optional spray-applied material. See General Information for Joint Systems THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800 See General Information for Joint Systems Certified for Canada A3. Light Gauge Framing* — Notched Ceiling Runner — As an alternate to the ceiling System No. HW-D-0042 shaped galv steel channel with notched return flanges sized to accommodate steel s steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds material is used. The use of welds to secure the ceiling runner may only be used prior June 21, 2023 OLMAR SUPPLY INC — Type SCR B. Steel Attachment Clips — (Optional — Not Shown) — When spray applied firepro from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not CAN/ULC S115 ANSI/UL2079 thickness of the spray-applied fire-resistive material on the bottom of the steel deck to valleys of steel deck (prior to application of spray-applied fire-resistive materials) ar Assembly Ratings — 1 and 2 Hr (See Items 2 and 3A) F Ratings — 1 and 2 Hr (See Items 2 and 3A) spaced max 24 in. (610 mm) OC. Nominal Joint Width — 1 In. T Ratings — 1 and 2 Hr (See Items 2 and 3A) C. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 floor runner and with top nesting in ceiling runner without attachment. When Epic Me Class II Movement Capabilities — 50% Compression or Extension FH Ratings — 1 and 2 Hr (See Items 2 and 3A) (92 mm) wide. When slotted ceiling runner (Item 2A1) is used, steel studs secured to s L Rating At Ambient — Less Than 1 CFM/Lin Ft FTH Ratings — 1 and 2 Hr (See Items 2 and 3A) midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2 bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 i L Rating At 400°F — Less Than 1 CFM/Lin Ft Nominal Joint Width — 1 In. D. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 in. and Class II Movement Capabilities — 50% Compression or Extension respectively. Wall to be constructed as specified in the individual Wall and Partition (Rating At Ambient — Less Than 1 CFM/Lin Ft be maintained between the top of the gypsum board and the bottom of the steel de to 51 mm) below the bottom of the ceiling runner. The hourly rating of the joint sy L Rating At 400°F — Less Than 1 CFM/Lin Ft 3. Joint System — Max separation between bottom of floor or roof and top of designed to accommodate a max 50 percent compression or extension from its instal A. Forming Material* — Nom 4 pcf (64 kg/m³) density mineral wool batt insulation of stacked on top of each other, as needed, and then compressed 25 percent in thickness The mineral wool batt insulation is to project beyond each side of the ceiling runner. shape of flute and nom 1 in. (25 mm) longer than thickness of wall; mineral wool com rate of 14.3 percent in the length (wall thickness) direction to be flush with both wall s mineral wool is to be tightly packed into the inverted flutes to the full thickness of the packed to min 25% compression within the recessed indentations immediately above be packed to the maximum depth possible to fill any embossments within the valleys and 2 hr rated assemblies, respectively, of nom 4 pcf (64 kg/m³) mineral wool batt ir bottom of the steel deck. The strips of mineral wool are compressed 50 percent and ti and bottom of the steel deck on both sides of the wall. INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing ROCK WOOL MANUFACTURING CO — Delta- Board ROCKWOOL — SAFE https://iq.ulprospector.com/en/profile?e=170098 https://iq.ulprospector.com/en/profile?e=170098 1/5 8/24/23, 3:16 PM XHBN.HW-D-0042 | UL Product iQ 8/24/23, 3:16 PM THERMAFIBER INC — Type SAF A1. Forming Material* — Plugs — (Optional, Not Shown) — Preformed mineral woo completely fill the flutes above the ceiling channel. The plugs shall project beyond ea described in Item 3A, to be used in conjunction with the plugs to fill the gap between HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs A2. Forming Material* — Strips — (Optional) — Nom 5/8 in. and 1-1/4 in. (16 and 32 assemblies respectively. The strips are compressed 50 percent and firmly packed, cut e steel floor units on both sides of the wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips B. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 r Fire Resistive Material* is applied to the Steel Floor and Form Units*, the fill mater (51 mm) on both sides of wall. When spray-appl min 1/2 in (13 mm) and overlap the spray-applied fire resistive material a min of 2 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray * Indicates such products shall bear the UL or cUL Certification Mark for juris The appearance of a company's name or product in this database does not in itself assure Only those products bearing the UL Mark should be considered to be Certified and covered UL Solutions permits the reproduction of the material contained in Product iO subject to the Systems, and/or Certifications (files) must be presented in their entirety and in a non-mislead printed from Product iQ with permission from UL Solutions" must appear adjacent to the following format: "©2023 UL LLC." CONFIGURATION B 1. Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features: https://iq.ulprospector.com/en/profile?e=170098 2/5 https://iq.ulprospector.com/en/profile?e=170098 8/24/23, 3:16 PM XHBN.HW-D-0042 | UL Product iQ A. Steel Floor And Form Units* — Max 3 in. (76 mm) deep galv steel fluted units. A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "EC" or "Toris C" A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Dek® B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units. C. Spray-Applied Fire Resistive Materials* — (Optional, Not Shown) — Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B, respectively) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (45 mm) thickness of fire resistive material. GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB ISOLATEK INTERNATIONAL — Type 300 1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features: A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "Toris C" or "ER2R" A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Dek ® B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units. 1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features: A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Type "Toris B. Spray Applied Fire Resistive Materials* — (Not Shown) — Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design. GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB ISOLATEK INTERNATIONAL — Type 300 2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual 1400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features: A. Steel Floor And Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC before optional spray-applied fire resistive material is used. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire 🕈 resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK CEMCO, LLC — CST CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H https://iq.ulprospector.com/en/profile?e=170098

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| | | |
| | Design/System/Construction/Assembly Usage Disclaimer | 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 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. | 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. |
| | The resistance assemblies and products are developed by the design submitter and have been investigated by 0L 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 | 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 method with bear Ult who have no environment of a set of the set |
| | Guide Information includes specifics concerning alternate materials and alternate methods of construction. Only products which bear UL's Mark are considered Certified. | Only products which bear UL's Mark are considered Certified. |
| m joint width is less than or equal to 3/4 in. (19 mm), vertical deflection ceiling runner lection ceiling runner to consist of galv steel channel with slotted vertical deflection | XHBN - Joint Systems | BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States |
| for permanent fastening of steel studs. Flanges sized to accommodate steel studs ited steel deck and secured to valleys with steel masonry anchors, steel fasteners or sistive material is used. The use of welds to secure the ceiling runner may only be | Suctor No. HW/D 0009 | 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 |
| | System No. HW-D-0098 June 04, 2010 | See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances |
| eiling runners in Items 2A through 2A3, notched ceiling runners to consist of C- studs (Item 2C). Notched ceiling runner installed perpendicular to direction of fluted Is spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive | Assembly Rating — 1 and 2 Hr (See Item 4) Nominal Joint Width - 1 in. | Design No. U423 June 14, 2024 |
| or to the installation of the optional spray-applied material. roofing is used ceiling runner may be secured to deck with Z-shaped clips formed | L Rating At Ambient — Less Than 1 CFM/Lin Ft (See Item 4) L Rating At 400°F — Less Than 1 CFM/Lin Ft (See Item 4) | Bearing Wall Ratings — 3/4 Hr, 1, 1-1/2 or 2 Hr (See Items 5 & 7) |
| t exceed the width (thickness) of the wall. Clips to be sized to extend through the swith 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened and top of ceiling runner with steel masonry anchors, steel fasteners or welds. Clips | Class II and III Movement Capabilities - 12.5% Compression or Extension | 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 <u>BXUV7</u> * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. |
| 3 to 19 mm) less in length than assembly height with bottom nesting in and resting on | | 77A 2 5 |
| Aetals composite floor or roof deck (Item 1A1) is used, steel studs to be min 3-5/8 in. a slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at 2A2) is used, steel studs secured to slotted vertical deflection clips, through the | | |
| I in. (610 mm) OC. | 38 | |
| Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall eck units and the top row of screws shall be installed into the studs 1-1/2 to 2 in. (38 system is dependent on the hourly rating of the wall. | | (9) (5) (5) |
| wall at time of installation of joint system is 1 in. (13 mm). The joint system is alled width. The joint system consists of forming material and a fill material, as | | 1. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel, that provide a sound structural connection between steel studs and adjacent assemblies such as floors, ceilings and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC. |
| n cut with a length approx equal to the overall thickness of the wall. Multiple pieces ess and inserted into the flutes of the steel deck above the top of the ceiling runner. r, flush with wall surfaces. Alternately, nom 4 pcf (64 kg/m ³) forming material cut to | | 1A. Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1, For Use With Item 5A and 5C) — Channel shaped runners min 3-1/2 in. deep with 1-1/4 in. flanges fabricated from min No. 20 MSG corrosion-protected steel. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC. |
| mpressed from ends and firmly packed into each flute to attain a min compression I surfaces. When Composite Steel Form and Floor Units (Items 1A1, 1A2) are used, the he wall. In addition, for the Epic Metals "Toris C" deck, the mineral wool is to be | Floor Assembly — The fire rated fluted steel unit/concrete floor assembly shall be constructed of the materials and in a manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features: A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted floor units. | 2. Steel Studs — Min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel studs, min 3-1/2 in. wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local constraints of the study shall be assembly. |
| ve the ceiling runners. For the New Millennium Versa-Dek, pieces of mineral wool shall vs of the fluted deck. Additional 5/8 in. and 1-1/4 in. (16 and 32 mm) wide strips for 1 nsulation are to be cut to fill the gap between the top of the gypsum board and tightly packed, cut edge first, into the gap between the top of the gypsum board g | B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete as measured from top plane of the floor units. | code agencies. The max stud spacing shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications. |
| E edd | C. Spray-Applied Fire Resistive Materials* — (Optional)—(Not Shown)—Prior to the installation of the forming material and fill, void or cavity material (Items 3A, 3B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (44 mm) thickness of fire resistive material. | width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. 2B. Steel Studs — (As an alternate to Item 2 and 2A, For Use With Item 5B) — Min 0.0329 in., (No. 20 MSG) corrosion-protected cold formed steel studs, min 3-1/2 in. deep by 1-5/8 |
| | | in. wide with 1/2 in. returns. Braced at mid-height and designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC. Studs |
| 4/5 | https://iq.ulprospector.com/en/profile?e=170150 1/3 | |
| RN HW D 0042 LUI Broduct iO | | attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications. |
| BN.HW-D-0042 UL Product iQ | 8/24/23, 3:15 PM XHBN.HW-D-0098 UL Product iQ ISOLATEK INTERNATIONAL — Type 300 | 2C. Framing Members - Steel Studs — (As an alternate to Item 2, For use with Item 5C) — Channel shaped, fabricated from min 20 MSG (0.0327 in. thick) corrosion-protected or galv steel, 3-1/2 in. min width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly beight. |
| ool plugs, formed to the shape of the trapezoidal fluted floor units, friction fit to ach side of the ceiling runner, flush with wall surfaces. Additional forming material, en the top of gypsum board and bottom of steel floor units. | 1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating | than assembly height. 3. Lateral Support Members — (Not shown) — Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system. |
| 32 mm) wide by 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated | of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features: A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. | 4. Wood Structural Panel Sheathing — (Optional, For use with Item 5 only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints |
| t edge first, into the gap between the top of the gypsum board and bottom of the | B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units. 1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be | centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in. The maximum loading on the steel studs was evaluated with the steel studs braced at mid-height and not braced by the plywood sheathing. |
| 2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to mm) onto gypsum board and steel deck on both sides of wall. When Spray-Applied | constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features: A. Steel Roof Deck — Max 3 in: (76 mm) deep galv steel fluted roof deck. | 5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints |
| erial is to overlap the gypsum board a min of 1/2 in. (13 mm) and the Spray-Applied lied fire resistive materials are used, the firestop joint spray shall overlap the wall a n. (51 mm) on both sides of the wall. | B. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design. | and horizontal butt joints on opposite sides of studs need not be staggered when load is reduced to 90 percent of max stud capacity. When load is at 100 percent, horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge staggered at load percent, horizontal edge staggered at load with Type ULIX. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered at 100 percent load with Type ULIX. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered at 100 percent load at 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. When used in widths other than 48 in., gypsum panels to be installed |
| sdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-06-21 | 2. Wall Assembly — Min 6 in. (152 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m ³) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. | horizontally. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr, and 2 hr ratings are as follows: Wallboard Protection on Each Side of Wall No. of Layers |
| hat products so identified have been manufactured under UL Solutions' Follow - Up Service. | See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. | & Thkns % of Rating of Panel Design Load 45 Min 1 layer, 1/2 in. thick 100 |
| l under UL Solutions' Follow - Up Service. Always look for the Mark on the product. e following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, ding manner, without any manipulation of the data (or drawings). 2. The statement | system is designed to accommodate a max 12.5 percent compression or extension from its installed width. The joint system shall consist of the following: A. Forming Material — Nom 4 pcf (64 kg/m ³) mineral wool batt insulation compressed and firmly packed to completely fill the flutes and the gap between the top of the wall and bottom of the floor or roof as a permanent form. Batt insulation cut to the shape of the fluted steel deck, approx 33 | I hr I layer, 5/8 in. thick 100 1-1/2 hr 2 layers, 1/2 in. thick 100 |
| e extracted material. In addition, the reprinted material must include a copyright notice in the | percent larger than the flutes. Pieces compressed and installed vertically into the flutes above the top of the wall. Additional pieces of batt insulation, min 6 in. wide, installed edge-first into joint opening between bottom of fluted steel deck and top of wall, parallel with joint direction, such that batt sections are compressed min 33 percent in thickness. Compressed batt sections are flush with both surfaces of wall. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. (1.22 m) apart along the length of the joint. | 2 hr 2 layers, 5/8 in. thick 80 2 hr@ 2 layers, 5/8 in. thick 100 |
| | ROCK WOOL MANUFACTURING CO — Delta Board | 2 hr 3 layers, 1/2 in. thick 100 2 hr 2 layers, 3/4 in. thick 100 |
| | A1. Forming Material*—Plugs — (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling runner. The plugs shall be flush with both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and the bottom of the steel floor units. | @Rating applicable when Batts and Blankets (Item 7) are used. |
| | HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs | CGC INC — 1/2 in. thick Type IP-X2, IPC-AR, C, WRC, or; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, IP-AR, IP-X2, IPC-AR, ULIX, ULX, or WRC; 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR, or WRC; 5/8 in. thick Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRX, or WRC; 3/4 in. thick Types |
| | B. Fill, Void or Cavity Material* — Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6mm dry thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto wall and steel deck on both sides of wall. When spray-applied fire resistive material* is applied to the steel deck, the fill material is to overlap the wall a min of 1/2 in. (14 mm) and to overlap the | AR, IP-AR or IP-X3, ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE |
| | spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of wall. When through-penetrants (Item 4) are installed within flute, the fill material shall overlap are in 1/2 in. (13 mm) onto the periphery of each penetrant, on both sides of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray | USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR, WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRX or WRC; 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE |
| | 4. Through-Penetrants — Max of two penetrants may be installed parallel with and within the flutes of the steel floor or roof deck. The annular space between | 5A. Gypsum Board* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, For direct attachment only, not to be used with Item 4) — Nom 5/8 in. or |
| | penetrants and steel deck or spray-applied fire resistive material on steel deck shall be min 0 in. (point contact) and the annular space between penetrants within the flute shall be min 2 in. (51 mm). Penetrants to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of penetrants may be used: | 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1A, 2A 8, 8A(a). Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 12) or Lead Discs or Tabs (see Item 13). |
| | A. Polyvinyl Chloride (PVC) Pipe — Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems. | RAY-BAR ENGINEERING CORP — Type RB-LBG |
| | B. Rigid Nonmetallic Conduit + — Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70). C. Steel Conduit or Tubing — Nom 1/2 in. (13 mm) diam rigid steel conduit or steel electrical metallic tubing (EMT) installed in accordance with the | 5B. Gypsum Board* — (As an alternate to Items 5 and 5A) — Nom 5/8 in. thick gypsum panels with square edges, applied horizontally or vertically. For the1 hour single layer system -when the gypsum board panels are installed horizontally the joints are to be staggered by a minimum of 12 in. on opposite sides of assembly, they are to be secured on each side of the studs with 1-1/4 in. long Type S-12 bugle head steel screws spaced 8 in. OC to the top and bottom tracks and in the field with screws 1 in. and 4 in. from the horizontal joints. When the gypsum board panels are installed vertically all vertical joints must be centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board |
| eedback | National Electrical Code (NFPA No. 70). View of steel deck, the hourly rating of the joint system is 1 hr. When Through-Penetrant(s) installed in flute of steel deck, the hourly rating of the joint system is 1 hr. View of the system is 1 hr. | secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC to the top and bottom tracks and in the field with screws 1 in and 4 in. from the perimeter. For the 2 hour double layer system - when the gypsum board panels are installed horizontally the joints need not be staggered on opposite sides of assembly. Base layer secured on each side of the studs with 1-1/4 in. long Type S-12 bugle head steel screws spaced 16 in. OC to the top and bottom track and in the field with screws beginning 1 in. and 8 in. from the |
| | * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. | horizontal joints. Face layer horizontal joints staggered 8 in from base layer joints and secured with 1-5/8 in. long Type 5-12 bugle head steel screws spaced 16 in. OC to the top and bottom tracks and in the field with screws beginning 1 in. and 8 in. from the horizontal joints. Face layer screws offset 8 in. from base layer screws. When the gypsum board panels are installed vertically all vertical joints must be centered over studs and staggered min 1 stud cavity on opposite sides of studs. Face layer gypsum boards secured to studs with 1- |
| 5/5 | https://ig.ulprospector.com/en/profile?e=170150 2/3 | |
| | | |
| | 8/24/23, 3:15 PM XHBN.HW-D-0098 UL Product iQ | 1/4 in. long Type S-12 steel screws spaced 16 in. OC with screws 2 in. and 16 in. from the perimeter. Base layer gypsum boards secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 16 in. OC with screws 1-1/2 in and 8 in. from the perimeter. Face layer screws offset 8 in. from base layer screws. GGC INC — Type USGX |
| | The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product. UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, | UNITED STATES GYPSUM CO — 5/8 in. thick Type USGX (Joint tape and compound, Item 9, optional with Type USGX) |
| | Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC." | USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type USGX (Joint tape and compound, Item 9, optional with Type USGX) USG MEXICO S A DE C V — Type USGX |
| | | 5C. Gypsum Board* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, For direct attachment only, not to be used with Item 4) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides |
| | | in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco |
| | | 5D. Gypsum Board* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, For direct attachment only, not to be used with Item 4) — Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in, shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with |
| | | beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1A, 2A 8, 8A(a). Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 12A) or Lead Discs (see Item 13A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum |
| | | MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum 5E. Gypsum Board* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, For direct attachment only, not to be used with Item 4) — Nom 5/8 in. |
| | | be: Cypsum board — (As an alternate to item 5 when used as the base layer on one or both sides of wail, For direct attachment only, not to be used with item 4) — Nom 5/8 in. may be used as alternate to all 5/8. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1A, 2A 8, 8A(a). Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed |
| | | gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". |
| | | RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall |
| | | 5F. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 17 or 18) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC. |
| | | 6. Fasteners — (Not Shown) — For use with Item 5 - Type S-12 steel screws used to attach panels to runners (Item 1 or 1A) and studs (Item 2 or 2A) or furring channels (Item 8). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC along the perimeter and in the field when panels are applied horizontally or vertically. |
| | | Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer-1-5/8 in. long for 1/2 in. and 5/8 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in. thick panels, spaced 24 in. OC. Second layer-1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in. thick panels, first layer-1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. |
| | | from layer below. 7. Batts and Blankets* — (Required as indicated under Item 5) — Nom 2 in. thick mineral wool batts, friction fitted between studs and runners. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. |
| | | 7A. Batts and Blankets* — (Optional, Not Shown) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. |
| | | 7B. Batts and Blankets* — (Optional, Not Shown) — Placed in stud cavities, glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. OWENS CORNING — Type QuietZone Acoustic Batts |
| | | 7C. Fiber, Sprayed* — (Optional) — As an alternate to Batts and Blankets (Item 7) — Not for use with Items 8A or 8B) — Spray applied mineral wool insulation. The fiber is applied |
| | | (C. Fiber, Sprayed ⁻ — (Optional) — As an alternate to Batts and Blankets (item 7) — Not for use with items 8A or 8b) — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus |
| | ă Č | 8. Furring Channels — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected |
| | Peee Peee | steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 panhead steel screws. Not for use with type FRX-G gypsum panels and Item 5A, 5C, 5D, or 5E. |
| | | 8A. Steel Framing Members (Not Shown)* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below: |
| | https://iq.ulprospector.com/en/profile?e=170150 3/3 | |
| END UL DETAIL HW-D-0042 | END UL DETAIL HW-D-0098 | |
| | | |
| | | |

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with type FRX-G gypsum panels and Item 5A, 5C, 5D, or 5E. b. Steel Framing Members* — Used to attach furring channels (Item 8a) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum selfdrilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75). 88. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below

a. Furring Channels - Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in

Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with type FRX-G gypsum panels and Item 5A, 5C, 5D, or 5E.

b. Steel Framing Members* — Used to attach furring channels to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP 8C. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with type FRX-G gypsum panels and Item 5A, 5C, 5D, or 5E. b. Steel Framing Members* — Used to attach furring channels to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237R

8D. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 8Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with type FRX-G gypsum panels and Item 5A, 5C, 5D, or 5E. b. Steel Framing Members* — Used to attach furring channels to studs (Item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw

8E. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, resilient channels and Steel Framing Members as described below a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with type FRX-G gypsum panels and Item 5A, 5C, 5D, or 5E. b. Steel Framing Members* — Used to attach resilient channels (Item 8Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

8F Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 5 b. Steel Framing Members* — Used to attach furring channels (Item 8Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

through the center hole. Furring channels are friction fitted into clips.

KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

REGUPOL AMERICA — Type SonusClip

9. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layers. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. 10. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

11. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO — Type AS

12. Lead Batten Strips — (Not Shown, For Use With Item 5A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5A) and optional at remaining stud locations. Required behind vertical joints. 12A. Lead Batten Strips — (Not Shown, for use with Item 5D) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations. 13. Lead Discs or Tabs — (Not Shown, For Use With Item 5A) — Used in lieu of or in addition to the lead batten strips (Item 12) or optional at other locations - Max 3/4 in. diam by max 0.125 in thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in by 1-1/4 in by max 0.125 in thick lead tabs placed on gypsum boards (Item 5A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". 13A. Lead Discs — (Not Shown, for use with Item 5D) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". 14. Lead Batten Strips — (Not Shown, For Use With Item 5C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5C) and optional at remaining stud locations. 15. Lead Tabs — (Not Shown, For Use With Item 5C) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5C) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary. 16. Wall and Partition Facings and Accessories* — (CLBV) (Optional, Not Shown) — For use with Item 1, Item 2 to 2C, Item 3, Item 5, Item 5, Item 7A, Item 8 and Item 9. For a maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 5), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board identical to the one used in the first layer and as specified in Item 5 shall be installed over the membrane. Additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 5 except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 7A. On the other side of the wall prior to the installation of the Gypsum Board install Resilient Channels as per Item 8. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 5 with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required laver(s) of UL Classified Gypsum Board. Alternately, on the other side of the wall prior to the installation of the Gypsum Board (Item 5), install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 5 with drywall screws as specified in Item 6. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. MSL — RefleXor membrane, SONOpan panel. 17. Foamed Plastic* - (Optional - only for use with item 5F, Not Shown, As an alternate to Item 7) Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION - Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO 18. Foamed Plastic*- (Optional, Not Shown, Only for use with item 5F, As an alternate to Item 7) Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness. BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Spraytite Comfort® XL, Walltite® XL, , Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max

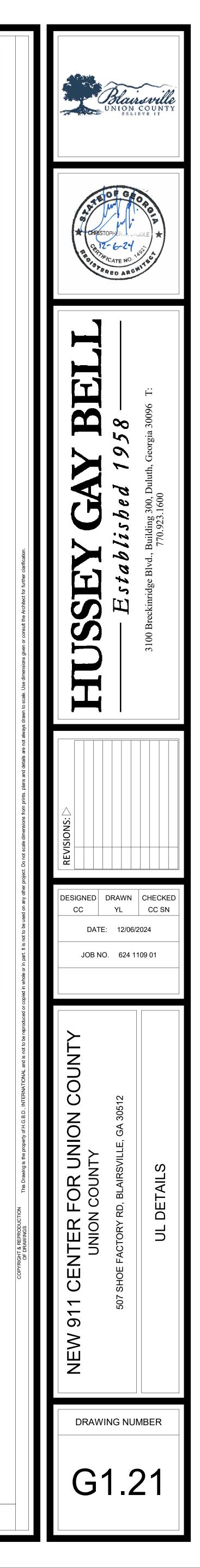
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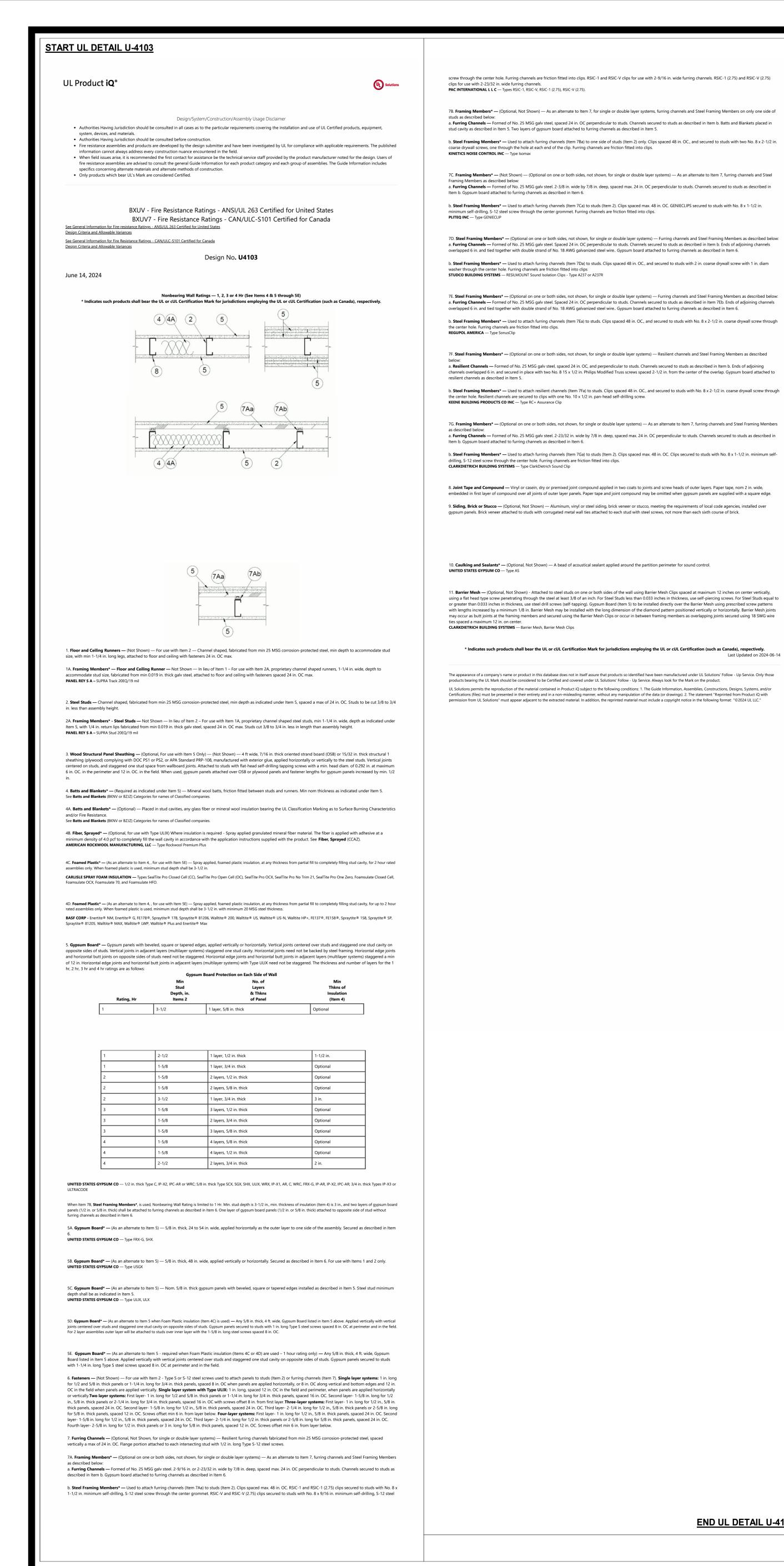
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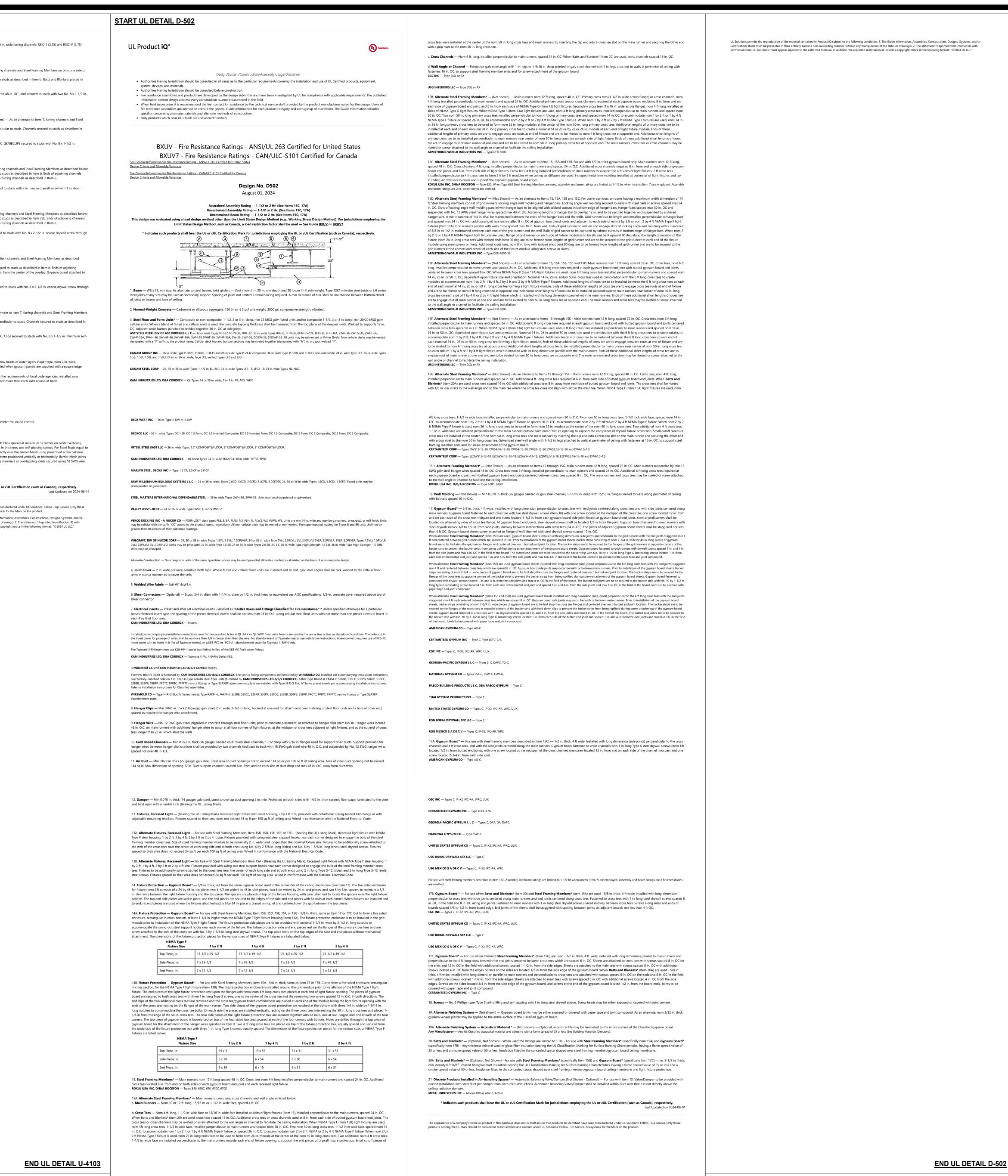
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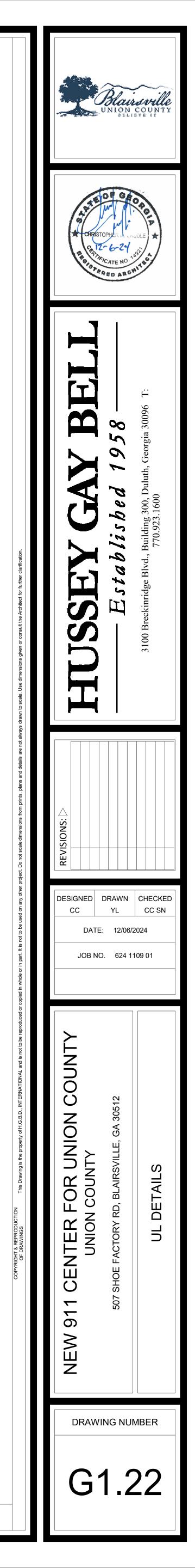
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| CLARCENTICIE RULENDE STYTEM - CD Profiles MARKET FRANKS - Profile MARKET F | accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/t¹³. INTERNATIONAL CELLULOSE CORP — Celbar-RL 3D. Batts and Blankets" — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners. See Batts and Blankets (BZJ2) category for names of manufacturers. 3E. Batts and Blankets" — For use with Item 4. And 45. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKJV or BZJ2) Categories for names of Classified companies. 3F. Fiber, Sprayed — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the endosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft¹. Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation. 3G. Foarmed Plastic' — As an alternate to Batts and Blankets (Items 3-3-F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-12 in. with min. 20 MSG thickness. CARLISLE SPRAY FOAM INSULTION — Types Sall's to OK, Seall'Ite Pro Ope Cell (CQ, Seall'ite Pro OCX, Seall'ite Pro No Trim 21, Seall'ite Pro One Zero, Framsulate Closed Cell, Feamsulate to Batts and Blankets (Items 3-3-F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. Spraytite® Stead Cell, Feamsulate t |
| FILE STRUCTURAL PRODUCTS LLC — In SPORTME I. Spring Members — Floor and Calling Runners — Not Shown — In like of here 1 through 10 — For use with here 22 addited any proprietary channel shaped numers, 1-1/4 in deep byrnin 3-5/6 in with RUNTMEST LLC — The Calling Runners — Not Shown — In like of here 1 through 11 — For use with here 2, duarted shaped numers, 1-1/4 in deep byrnin 3-5/6 in with RUNTMEST LLC — The Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here 1 through 11 — For use with here 2, duarted shaped numers, 1-1/4 in deep byrnin 3-5/6 in with Rundmest Runners (Phone Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Runners — Not Shown — In like of here and Calling Run | See Batts and Blankets (BZIZ) category for names of manufacturers. 3E. Batts and Blankets (BZIZ) category for names of manufacturers. 3E. Batts and Blankets (BKNV or BZIZ) Categories for names of Classified companies. 3F. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of material any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/tt⁻¹. Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation 3G. Foarmed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foarmed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foarmsulate OCX, Foarmsulate OCX, Foarmsulate OCX, Foarmsulate OCX, Foarmsulate OCX, Foarmsulate OCX, Soarmsulate OCX, Soartite Pro Close Gell, Coalted plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foarmed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. BASF CORP - Enertite® NM, Enertite® G, FEI72®, Sprayite® 178, Sprayite® 1206, Wallite® U20, Wallite® U2, Wallite® U2-N, Wallitie® H2+, FEI37®, FEI58®, Sprayite® 158, Sprayite® SP, Sprayite® 81205, Sprayite® 178, Sprayite® 178, Sprayite® 1206, Wallite® U20, Wallite® U2-N, Wal |
| In deep by min 3.5 kill is vide behaviour from min 000 lis is thick galv steel, strached to floor and coling with fasteners spaced 24 in. OC max. 17. Framing Members' — Floor and Celling Runners — Not Shown — In lieu of Items 1 through 15 — For use with Item 2, channel shaped numers, 1-1/4 in, deep by min 3-5/8 in, wide biblioted from min 25.05 Kit is video in min 20.05 Kit is video in wideo in wideo in min 20.05 Kit is video in wideo in min 20.05 Kit is video in wideo in min 20.05 Kit is video in min 20.05 Kit i | Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJ2) Categories for names of Classified companies. 3F. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation 3G. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. CARLISLE SPRAY FOAM INSULATION — Types SeaTite ONE, SeaTite Pro Closed Cell (CC), SeaTite Pro Open Cell (OC), SeaTite Pro OCX, SeaTite Pro No Trim 21, SeaTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OX, Foamsulate 70, and Foamsulate HFO. 3H. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. BAF CORP - Enertite & N.K. Enertite & G.R. Fat3ew, Spraytite & 81206, Wallite & US. Wallite & US-N, Wallite & HP+, FE137 &, FE158 &, Spraytite & SP, Spraytite & 81205, Spraytite & Comfort XL, Wallite & MAX, Wallitie & LWP, Wallitie & US-N, Wallitie & US-N, Wallitie & HP+, FE137 &, FE158 &, Spraytite & SP, Spraytite & 81205, Spraytite & Comfort XL, Wallitie & MAX, Wallitie & LWP, Wallitie & Plus and Enertite & Max. 4. Gypsum Board* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track |
| With HONK KONG UD — 19 K KBI With HONK KONG UD — 19 K KBI The Fanning Members" — Floor and Celling Runners — Not Shown — In like of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in, deep by min 3-5/8 in, with existenes spaced 24 in, OC max. STUECO BUILDING SYSTEMS — CROCSTUD Track HI Roor and Celling Runners — Net Shown — In like of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in, deep by min 3-5/8 in, with existenes spaced 24 in, OC max. STUECO BUILDING SYSTEMS — CROCSTUD Track HI Roor and Celling Runners — Net Shown — In like of Items 1 — For use with Item 24, proprietary channel shaped runners, 1-1/4 in, wide by min 3-5/8 in, deep Item min 020 in, his data with fastenes spaced 14 in, OC max. MARINO/WARE, DV OF WARE NODESTRIES INC — Vipe20¹⁰ Track VT100 INFERRAL MANURACTURING GROUP INC — Vipe20¹⁰ Track VT100 INFERRAL MONTACTURING GROUP INC — Vipe20¹⁰ Track INF | application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/tf¹. Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation 3G. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO. 3H. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Wallitie® 200, Wallitie® US-N, Wallitie® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Wallitie® MAX, Wallitie® LWP, Wallitie® IUS, Multite® US-N, Wallitie® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Wallitie® MAX, Wallitie® LWP, Wallitie® Plus and Enertite® Max. 4. Gypsum Board* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joi |
| in wide, attached to floor and ceiling with fasteners spaced 24 in. OC max. STUDOC BUILDING SYSTEMS — CROSSTUD Track 114. Floor and Ceiling Runners — Not Shown — Channel shaped, fabricated form min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs sporting bloom and fabricated form min 0.20 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs sporting bloom and fabricated form min 0.20 in. Thick galv steel, attached to floor and ceiling with fasteners spaced at n. OC. IMPERIAL MANUFACTURING GROUP INC — Vipe20^{om} Track VT100 11. Framing Members' — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 24, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated form min 0.020 in. Thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. IN. Framing Members' — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 24, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated form min 0.020 in. Thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE MITAL FRAMING, LL C — AlphaTRAK 11. Framing Members' — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 20, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.200 in. min. base metal thickness, attached to floor and ceiling with fasteners spaced 24 in. OC max. 12. Framing Members' — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 20, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.200 in. min. base metal thickness, attached to floor and ceiling with fasteners spaced 24 in. OC max. 13. Framing Members' — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item | cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in, with min. 20 MSG thickness. CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO. 3H. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in, with min. 20 MSG thickness. BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max. 4. Gypsum Board* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC. AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc |
| studie specified below ³ and fabricated from min 0.02 in galv steel or Thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DV OF WARE INDUSTRIES INC — Vipe20° Track V1100 IMPERIAL MANUFACTURING GROUP INC — Vipe20° Track V1100 II. Framing Members ⁴ — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.02 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. MARINO/WARE, DV OF WARE INDUSTRIES INC — Vipe20° Track II. Framing Members ⁴ — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2 L proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE METAL FRAMING, L C — AlphaTRAK IX. Framing Members ⁴ — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE METAL FRAMING, L C — AlphaTRAK IX. Framing Members ⁴ — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CENCO, LC — Viper X Track II. Framing Members ⁴ — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CENCO, LC — Viper X Track II. Framing Members ⁴ — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2D, proprietary chann | cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness. BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max. 4. Gypsum Board* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC. AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc |
| deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. MARINOYWARE, DIV OF WARE INDUSTRIES INC — Viper20 th Tack 11. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE METAL FRAMING, LL C — AlphaTRAK 1K. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CENCO, LLC — Viper X Tack 1L. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CENCO, LLC — Viper X Tack 1L. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 20, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20** 1M. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 20, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated f | OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC. |
| in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE METAL FRAMING, LLC — AlphaTRAK 1K. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CEMCO, LLC — Viper X Track 1L. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20^w 1M. Framing Members* - Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 20, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20^w 1M. Framing Members* - Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 20, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0229 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A - SUPRA Track 20/33 mil 1N. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A - SUPRA Track 20/2/3 mil 10. Framing Members* — Floor and Ceiling Runner — (Not Shown | |
| in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CEMCO, LLC — Viper X Track 1L. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20 ¹⁰ 1M. Framing Members* - Floor and Ceiling Runners – Not shown — In lieu of Item 1 through 1L – For use with Item 20, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20/33 mil 1N. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20/33 mil 10. Framing Members* — Floor and Ceiling Runner — (Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20EQ/19 mil 10. Framing Members* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max. | BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing |
| in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20™ 1M. Framing Members* - Floor and Ceiling Runners – Not shown – In lieu of Items 1 through 1L – For use with Item 20, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20/33 mil 1N. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20/23 mil 10. Framing Members* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max. | CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X, ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Type DGLW, |
| deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20/33 mil 1N. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20EQ/19 mil 10. Framing Members* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max. | Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSM-C, FSW-G, FSW-G, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX. NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR |
| from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A – SUPRA Track 20EQ/19 mil 10. Framing Members* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runner attached to floor and ceiling with fasteners 24 in. OC max. | PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop |
| 10. Framing Members* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max. | M2TECH ACTIV ⁻ Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV ⁻ Air, Gyproc DuraLine MR ACTIV ⁻ Air, Gyproc DuraLine M2TECH ACTIV ⁻ Air SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C |
| | UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX) USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) |
| 1P. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated | 4A. Gypsum Board* — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered |
| from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. | over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. CERTAINTEED GYPSUM INC — Type X-1, Type C, Type EGRG/ GlasRoc-2, Type SilentKX, Easi-Lite Type X-2 |
| 1Q. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. | CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS |
| 2. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. | SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C |
| assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 | UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX) USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) |
| QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20 TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20 | 4B. Gypsum Board* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in. CGC INC — Types AR, IP-AR |
| UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 | UNITED STATES GYPSUM CO — Types AR, IP-AR USG MEXICO S A DE C V — Types AR, IP-AR |
| 2B. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. CEMCO, LLC — Viper20™ CRACO MFG INC — SmartStud20™ MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ IMPERIAL MANUFACTURING GROUP INC — Viper20™ | 4C. Gypsum Board* — As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing. GEORGIA-PACIFIC GYPSUM LLC — Type DGG, GreenGlass Type X |
| 2C. Steel Studs — (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs. 2D. Framing Members* — Steel Studs — As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min | 4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall. NATIONAL GYPSUM CO — Types eXP-C, FSK-G, FSW-C, FSW-G, FSW-G, FSW-S, FSW-6, FSMR-C |
| 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD DMFCWBS L L C — ProSTUD MBA METAL FRAMING — ProSTUD RAM SALES L L C — Ram ProSTUD | 4E. Gypsum Board* — (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall. NATIONAL GYPSUM CO — Type SBWB |
| STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD 2E. Framing Members* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD [™] | 4F. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. RAY-BAR ENGINEERING CORP — Type R8-LBG |
| 2F. Framing Members* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. KIRII (HONG KONG) LTD — Type KIRII | 4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-3, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. CGC INC — Type SCX, ULIX |
| 2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD | CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-G, FSW-G, FSW-3, FSW-5, FSW-6, and FSMR-C UNITED STATES GYPSUM CO — Type SCX, ULIX USG BORAL DRYWALL SFZ LLC — Type SCX |
| 2H. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20 ³⁴ | |

41. Gypsum Board* — (As an alternate to Items 4 through 4F) — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. CGC INC — Types SCX, ULIX UNITED STATES GYPSUM CO — Types SCX, ULIX shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), **USG BORAL DRYWALL SFZ LLC** — Type SCX 4J. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom n 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite It 3/8 to 3/4 in. less than assembly height. sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum 1J. channel shaped studs, min 3-5/8 in, wide fabricated from min 0.018 in, thick galv steel, 4K. Gypsum Board* — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A. CGC INC — Type ULX UNITED STATES GYPSUM CO — Type ULX h Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, USG MEXICO S A DE C V — Type ULX n length than assembly height. 4L Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom n Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". h Item 1M, proprietary channel shaped steel studs, min 1-5/8 in. wide by min 3-5/8 in. deep RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall . Studs cut 3/4 in. less in length than assembly height. 4M. Gypsum Board* — (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud Gypsum Board. cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint length than assembly height. compound. Screw heads covered with joint compound. AMERICAN GYPSUM CO — Type AG-C **CERTAINTEED GYPSUM INC** — Type C 0) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, CGC INC — Types C, IP-X2, IPC-AR tension reveal from top of stud to inside of ceiling runner. **CERTAINTEED GYPSUM INC** — Type LGFC-C/A GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C ess in length than assembly height. PANEL REY S A — Types PRC, PRC2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air roprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C n assembly height. UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX USG BORAL DRYWALL SFZ LLC — Type C USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR pletely filling stud cavity. 4N. Wall and Partition Facings and Accessories* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 40. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and rmulation) — Spray applied cellulose material. The fiber is applied with water to completely norizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied oduct with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied th the application instructions supplied with the product. vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall. NATIONAL GYPSUM CO — Type FSW 4P. Gypsum Board* — As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or vorizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or ulose insulation material. The fiber is applied with water to interior surfaces in accordance vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. CGC INC — Type ULIX UNITED STATES GYPSUM CO — Types ULIX ulose fiber. The fiber is applied with water to completely fill the enclosed cavity in 4Q. Gypsum Board* — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in. density shall be 4.30 lbs/ft³. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13 wool batts, friction fit between the studs and floor and ceiling runners. 4R. Gypsum Board* — As an alternate to Item 4D. For use with Item 3E. Batts and Blankets* — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of NATIONAL GYPSUM CO — Type FSLX. 8-1/2 in thick glass fiber insulation bearing the UL Classification Marking as to Surface 4S. Gypsum Board* — As an alternate to Item 4. For use with Item 3E, Batts and Blankets* — 5/8 in. thick, 4 ft wide, installed as described in Item 4A. aterial. The fiber is applied with water to completely fill the enclosed cavity in accordance with the CERTAINTEED GYPSUM INC — Type CLLX. woven or non-woven netting may be attached by any means possible to the outer face the n either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. 4T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field. Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type QuietRock 545 ite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, 4U. Gypsum Board*— (As an alternate to Item 4 when Foam Plastic insulation Items 3G or 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC. - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud), Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, 4V. Gypsum Board* — (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced Plus and Enertite® Max. a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. **CERTAINTEED GYPSUM INC** — Type X-1, SilentFX, GlasRoc, Type C track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. ne assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, paced 12 in. OC. 5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. 6. Resilient Channel — (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L. 6A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as be and compound, Item 5, optional for use with Type USGX) described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, si-Lite Type X-2, Type LWTX ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L. e X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, ter Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, b. Framing Members* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type hrough the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. -3, FSW-5, FSW-6, FSW-8, FSL, RSX. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75) 6B. Framing Members* — — (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. c FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop ine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX) nal for use with Type USGX) 6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: X (Joint tape and compound, Item 5, optional for use with Type USGX) a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered s and horizontal butt joints on opposite sides of studs need not be staggered or backed by rews spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R C in field and perimeter. Easi-Lite Type X-2 ape and compound, Item 5, optional for use with Type USGX) 6D. Steel Framing Members* — (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels erlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. c FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop aLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air b. Steel Framing Members* — UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip X, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX) nal for use with Type USGX) X (Joint tape and compound, Item 5, optional for use with Type USGX) 6E. Steel Framing Members* — (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. installed as described in Item 4A with screw length increased to 1-1/4 in. b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

6F Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

the channel. Gypsum board attached to furring channels as described in Item 4.

screw through the center grommet. Furring channels are friction fitted into clips.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

4F, 4J, or 4L.

Furring channels are friction fit into clips MASON INDUSTRIES INC — Type CWC-50

HOMASOTE CO — Homasote Type 440-32

BLUE RIDGE FIBERBOARD INC — SoundStop

for use with Item 4M.

a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining

channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of

b Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels

verlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items

b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 10 x 2 in. screw through the center hole.

7. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of

the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be

8. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.

8A. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied

vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated

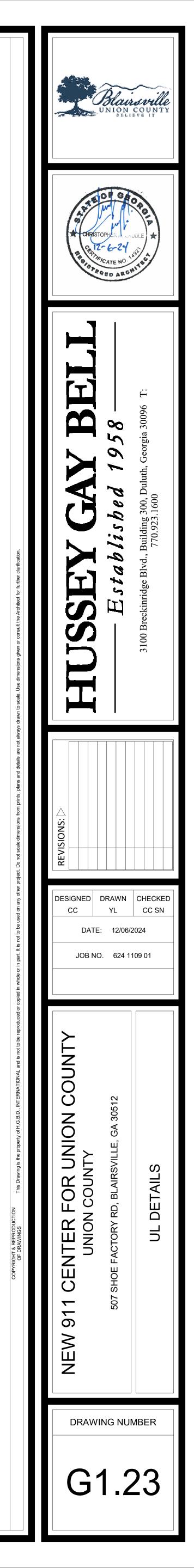
8B. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to studs with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M. HOMASOTE CO — Homasote Type 440-32 9. Lead Batten Strips — (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints. 9A. Lead Batten Strips — (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations. 10. Lead Discs or Tabs — (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in, diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". 10A. Lead Discs — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". 11. Adhesive — Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8). 12. Wall and Partition Facings and Accessories* — (CLBV) (Optional, Not Shown) — For use with Items 1 to 11, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When Reflexor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4 shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3. On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 41 with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. **MSL** — RefleXor membrane, SONOpan panel 13. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically,

using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center. CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2024-06-14 The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those

products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product. UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

END UL DETAIL D-465



FLOODPLAIN NOTE THERE IS NO FLOODPLAIN ON THIS PROPERTY FROM A WATER COURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES. WETLAND NOTE

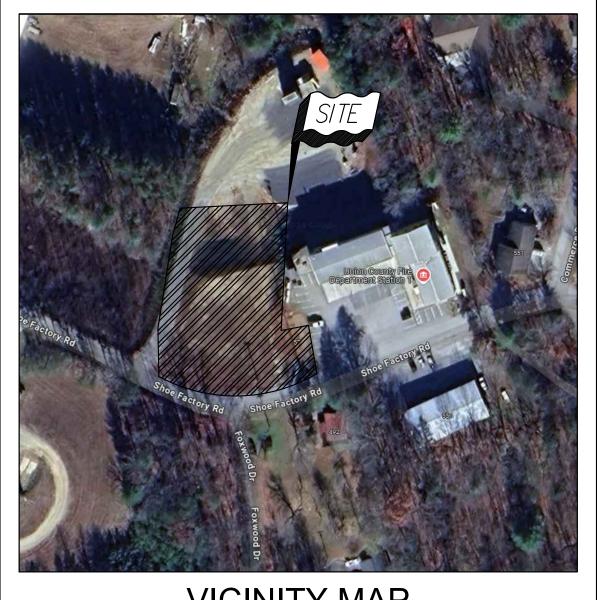
THERE ARE NO WETLANDS ON THIS SITE.

STATE WATERS BUFFER NOTE THERE ARE NO STATE WATERS BUFFERS ON OR WITHIN 200 FEET OF THIS PROPERTY.

WETLAND CERTIFICATE

WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEE CONSULTED: AND. 2) THE APPROPRIATE PLAN SHEE DOES NOT INDICATE AREAS OF U.S. ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON MAPS: AND 3) IF WETLANDS ARE INDICATED. THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY UNION COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE



VICINITY MAP SCALE: N.T.S.



FIRM NO.: 13291C0152D EFF.: 09/28/2007 SCALE: N.T.S.

3100 Breckinridge Blvd., Building 300, DULUTH, GA 30097 / T:770.923.1600 SAVANNAH • BLUE RIDGE • ATLANTA • STATESBORO • CHARLESTON • COLUMBIA NASHVILLE GREENVILLE www.husseygaybell.com

SITE DEVELOPMENT PLANS FOR UNION COUNTY 911 CENTER

SHOE FACTORY RD BLAIRSVILLE, GA 30512 LAND LOT 305 / 9 DISTRICT / PARCEL ID 086 027 B UNION COUNTY

A NEW 7,520-SF BUILDING FOR A 911 CALL CENTER AND OFFICE / STORAGE SPACE

OWNER UNION COUNTY GOVERNMENT 65 COURTHOUSE STREET, SUITE 1 BLAIRSVILLE, GA 30512 CONTACT: TONY HUGHES Phone: 706-897-5507

24 HOUR CONTACT FOR EROSION CONTROL MR. TONY HUGHES 706-897-5507

PROJECT AREA = 0.95 ACRES DISTURBED AREA = 0.69 ACRES

PROJECT DESCRIPTION THIS SITE IS A CLEARED, VACANT LOT ADJACENT TO THE UNION COUNTY FIRE DEPARTMENT STATION ONE. THE PREPARED BUILDING WILL HOUSE A NEW UNION COUNT 911 CALL CENTER IN THE LOWER LEVEL AND STORAGE AND OFFICE SPACE IN THE UPPER LEVEL. BUILDING IS 7.520 SF



MARK BOND, PE / REID DYER, RLA CONTACT: HJA PROJECT NO.: 24-558-C

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| <u>SITE VISIT CERTIFICA</u> |
|---------------------------------------------------------------------------------------------------------|
| I CERTIFY THAT PRIOR TO THE DESIGN OF CONTROL PLANS I OR A REPRESENTATIVE SUPERVISION VISITED THE SITE. |
| few W. Ne |
| REID W. DYER GA #1014 LEVEL II CERTIFIED DESIGN PROFESSIONA #06911 |

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD **GREATER THAN 14 DAYS SHALL BE STABILIZED WITH** MULCH OR TEMPORARY SEEDING.

| | Shoot List Table |
|--------------|---------------------------------|
| | Sheet List Table |
| Sheet Number | Sheet Title |
| C-00 | COVER |
| C-01 | GENERAL NOTES & LEGEND |
| C-02 | EXISTING CONDITIONS |
| C-03 | SITE PLAN |
| C-04 | GRADING PLAN |
| C-05 | UTILITY PLAN |
| C-06 | SITE PROFILES |
| C-07 | EROSION CONTROL |
| C-08 | EROSION CONTROL DETAIL (1 OF 3) |
| C-09 | EROSION CONTROL DETAIL (2 OF 3) |
| C-10 | EROSION CONTROL DETAIL (3 OF 3) |
| C-11 | CONSTRUCTION DETAILS (1 OF 2) |
| C-12 | CONSTRUCTION DETAILS (2 OF 2) |
| C-13 | WATER AND SS DETAILS |



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| | HUSSEY, GAY, BELL & DeYOUN |
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| | SINGLE WING CATCH BASIN | |
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| | HOODED CATCH BASIN | |
| | GRATE INLET / DROP INLET | |
| | FLARED END SECTION | |
| J | HEADWALL | |
| | OUTLET CONTROL STRUCTURE | 0 |
| S | SANITARY SEWER MANHOLE | S |
| | STORM SEWER MANHOLE | \bigcirc |
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| > | FLOW ARROW | |
| | TREE LINE | $\overbrace{}$ |
| SVE ECM3 | | AND ENTS |
| | SIGNIFICANT TREES | |
| <u> </u> | GUARD RAIL | 0 0 0 |
| XX | LOT NUMBER | XX |
| (XX) | PARCEL NUMBER | (XX) |
| XX | NUMBER OF PARKING SPACE NUMBER | XX |
| • | SIGN w/POST | • |
| • | DOUBLE SIGN w/POST | • |
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| • | WHEEL STOP | P |
| G | HANDICAP PARKING | Ğ. |
| d) ● | SATELLITE DISH | Ef. |
| ו | ROCK BORE LOCATION | X |
| 0 | PROPERTY CORNER | |
| | GIS BENCHMARK | |
| | TRAVERSE POINT | \bigtriangleup |
| | RIGHT OF WAY MONUMENT | |
| | IRON PIN FOUND | 0 |
| | IRON PIN SET WETLAND AREA | \checkmark |
| | LAND LOT LINE | -š- |
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| | LAND LOT NUMBER | |

FURNISHED AND INSTALLED. SHALL NOT BE USED FOR STORAGE OR PARKING.

- SPECIFICATIONS.
- SUCH NOTIFICATION.
- PRACTICES.
- CONDITIONS.
- AND UNDISTURBED.
- TRADE PRACTICES.

-ACCESS EASEMEN A.K.A. – ALSO KNOWN AS APPROX – APPROXIMATE -AIR RELEASE VALVE B&D -BEARING AND DISTANCE BC -BACK OF CURB BCCMP -BITUMINOUS COATED CMP BLDG -BUILDING - -BUILDING LINE -BENCHMARK -CATCH BASIN & G -CURB & GUTTER -CENTERLINE F -CONCRETE MONUMENT FOUND P -CORRUGATED METAL PIPE S -CONCRETE MONUMENT SET -CIFANOLIT RG HP -HIG HW -HE ID -INSI IE -INCI IE -INCI IPF -IRC IPF -IRC IRR -IRF JB -JOI JT -JOI -CLEANOUT ID -CLEANOUI IDNC -CONCRETE IB. -DEED BOOK IE -DRAINAGE EASEMENT IA -DIAMETER DIP -DUCTILE IRON PIPE DS -DOWN SPOUT DWCB -DOUBLE WING CATCH BASIN EG - EXISTING GRADE ELEV -ELEVATION EOP -EDGE OF PAVEMENT ESMT -EASEMENT ETB -ELECTRIC TRANSFORMER BOX EX. -EXISTING FDC -FIRE DEPARTMENT CONNECTION FFE -FINISHED FLOOR ELEVATION FG - FINE HYDRANT F.I.R.M. -FEDERAL INSURANCE RATE MAP FM -SEWER FORCE MAIN FOC -FACE OF CURB FP - FLOOD PLAIN FT -FOOT/FEET G -GAS LF -LINU LLL -LA LOD -LI L.P. -LI MAX -M MH -MA MIN -MI MISC -M MON -M MSL -M MSL -M N/F - M NTS -N NO. -N NPW -OCS -O JD -01'

GENERAL CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL CONFORM TO BOTH PLANS AND SPECIFICATIONS FOR THIS PROJECT. ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE

2. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, CENTER OF COLUMN, EDGE OF PAVEMENT, CENTERLINE OF PIPE, OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED. 3. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN. TREE SAVE AREAS

4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF ALL TIE-IN POINTS FOR THE INSTALLATION OF UTILITIES, CURB & GUTTER, AND PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY IF DIFFERENT THAN AS SHOWN ON PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS

AND FIELD CONDITIONS IMMEDIATELY UPON DISCOVERY. 6. ALL WORK WILL COMPLY WITH APPLICABLE STATE AND LOCAL CODES, SPECIFICATIONS AND REQUIREMENTS. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED PRIOR TO CONSTRUCTION.

DEVIATIONS FROM THESE PLANS, NOTES AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE OWNER, HIS REPRESENTATIVE OR THE ENGINEER MAY RESULT IN THE WORK BEING UNACCEPTABLE BY THE OWNER, AND REDONE TO MEET THE PLANS, NOTES AND

8. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE SAFETY AS WELL AS THE WAYS, MEANS AND METHODS OF CONSTRUCTION.

9. CONTRACTOR SHALL COORDINATE CONSTRUCTION TRAFFIC AND GENERAL PUBLIC TRAFFIC ROUTING WITH OWNER AND APPROPRIATE REGULATING AGENCY PRIOR TO CONSTRUCTION. 10. CONTRACTOR SHALL NOT WILLINGLY PROCEED WITH CONSTRUCTION IN A PARTICULAR AREA WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTION AND/OR DIFFERENCES FROM EXISTING CONDITIONS THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE

11. CITY/COUNTY/STATE INSPECTORS MAY REQUIRE CHANGES TO THE DRAWINGS AND/OR SPECIFICATIONS BASED ON THEIR INSPECTION. CONTRACTOR SHALL BRING ANY REQUIRED CHANGES TO THE ENGINEERS ATTENTION IMMEDIATELY.

12. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION. 13. ALL WORK SHALL BE PERFORMED AND FINISHED IN A WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE

14. ALL MATERIAL SHALL BE NEW- NO USED OR SALVAGED MATERIALS. 15. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE ACTIVITIES.

16. LANDSCAPING IS A HIGH PRIORITY. PROPER PROTECTION OF EXISTING LANDSCAPING, FENCES, PROPERTY CORNERS AND/OR D.O.T. CONCRETE RIGHT-OF-WAY MONUMENTS SHALL BE PROVIDED. WHERE DAMAGE OCCURS, REPLACEMENT TO EXISTING CONDITION IS REQUIRED. ALL LANDSCAPING REPLACEMENT IS SUBJECT TO APPROVAL FROM FORSYTH COUNTY AND THE ENGINEER.

17. CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLANS. 18. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS AS REQUIRED IN THE GENERAL

19. THIS PLAT IS NOT FOR RECORDING.

20. UTILITY LOCATIONS ARE SHOWN TO THE BEST KNOWLEDGE OF THE ENGINEER. CONTRACTOR IS SOLELY RESPONSIBLY FOR FIELD VERIFICATION OF ALL UTILITIES AND WILL NOT BE ENTITLED TO ANY EXTRA COMPENSATION ON ACCOUNT OF INACCURACY OR INCOMPLETENESS OF SUCH INFORMATION.

21. MAXIMUM CUT OF FILL SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL. 22. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATIONS. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES. 23. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND PRECAUTIONS TO ASSURE

THAT EXISTING SEWER LINES, FORCE MAIN LINES, AND WATER LINES REMAIN FUNCTIONAL 24. ALL WORK SHALL BE PERFORMED AND FINISHED IN A WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER AND IN ACCORDANCE WITH THE BEST RECOGNIZED

25. CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL STAGING AND/OR STORAGE REQUIRED OUTSIDE OF THE EASEMENTS PROVIDED BY OWNER. CONTRACTOR TO ALSO LOCATE STAGING AREAS AND EQUIPMENT MAINTENANCE AREAS (PARTICULARLY FOR OIL CHANGES) AT LEAST 200 FEET FROM STREAM BANKS TO MINIMIZE THE POTENTIAL FOR WASH WATER, PETROLEUM PRODUCTS, OR OTHER CONTAMINANTS FROM CONSTRUCTION EQUIPMENT ENTERING THE STREAMS.

SITE CLEARING & SITE DEMOLITION NOTES

CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTS AND BENCHMARKS AND WILL BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DESTROYED.

- THE CONTRACTOR SHALL HAVE THE LIMITS OF CLEARING AND DEMOLITION AND ALL BUFFERS STAKED WITH FLAGGING STRUNG BETWEEN ANGLE POINTS TO ENSURE THE PROPER
- AND DEMOLITION. CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING CLEARING &

LOCATION OF THE TREE SAVE FENCE AND PROPOSED IMPROVEMENTS PRIOR TO CLEARING

- DEMOLITION WORK. ANY OFF-SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST TO THE
- 4. NO CLEARING OR DEMOLITION MATERIALS SHALL BE DISPOSED OF ON-SITE ALL DEBRIS SHALL BE HAULED OFF-SITE TO DISPOSAL AREAS APPROVED BY THE STATE OF GEORGIA FOR THE HANDLING OF CLEARING & DEMOLITION MATERIALS.
- 5. ALL VEGETATION (UNLESS OTHERWISE NOTED), ROOT SYSTEMS, TOPSOIL, REFUSE, OTHER DELETERIOUS MATERIAL, EXISTING PAVEMENTS, CURBS, ORGANICS AND UNSUITABLE BEARING SOILS SHALL BE STRIPPED FROM THE SURFACE WITHIN THE CONSTRUCTION LIMITS AND DISPOSED OF OFFSITE TO A DISPOSAL AREA APPROVED BY THE STATE OF GEORGIA FOR THE
- HANDLING OF CLEARING & DEMOLITION MATERIALS. 6. CLEAN TOP SOIL MAY BE STOCKPILED IN AN AREA APPROVED BY THE ENGINEER AND REUSED LATER IN THE TOP 4" OF LANDSCAPED AREAS ONLY. EXCESS TOPSOIL SHALL BE
- DISPOSED OF OFFSITE. ALL STRUCTURES NOT IDENTIFIED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE
- DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONSTRUCTION ENTRANCE, SILT FENCE AND ANY OTHER REQUIRED EROSION CONTROL DEVICE 8.
- SHALL BE IN PLACE PRIOR TO CLEARING & DEMOLITION OPERATIONS. DISCONNECT AND SEAL OFF ABANDONED UTILITIES AND UTILITIES TO BE REMOVED PRIOR TO START OF DEMOLITION. UTILITIES SHALL BE DISCONNECTED BELOW EXISTING GRADE OR OUTSIDE OF CONTRACT LIMITS BY THE APPLICABLE UTILITY OWNER. ALL COSTS FOR THIS WORK SHALL BE BORNE BY THE CONTRACTOR.
- 10. ALL STRUCTURES TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED ABOVE AND BELOW GRADE. ABANDONED SERVICE LINES TO THE STRUCTURES SHALL ALSO BE REMOVED.
- CONTRACTOR TO PROVIDE ALL NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT CLEARING, DEMOLITION AND CONSTRUCTION IN COMPLIANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION, THE GEORGIA D.O.T. SPECIFICATIONS SECTION 150 AND ANY RULES AND REGULATIONS OF THE LOCAL AUTHORITY HAVING JURISDICTION OVER THIS PROJECT.
- 12. THE EXISTING TREES SHOWN ON THESE PLANS MAY ONLY BE THE MINIMAL AMOUNT SURVEYED AS REQUIRED FOR PERMITTING. THE SITE MAY HAVE ADDITIONAL TREES BEYOND THAT WHICH IS SHOWN. THE CONTRACTOR SHALL VISIT THE SITE BEFORE MAKING HIS BID TO INVESTIGATE THE AMOUNT OF EXISTING TREES THAT WILL NEED TO BE REMOVED WITHIN THE LIMITS OF CLEARING.

REFERENCES

- BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON A TOPOGRAPHIC SURVEY FOR UNION COUNTY GOVERNMENT. DATED AUGUST 2024 AND PREPARED BY HUSSEY GAY BELL, 322 W MAIN ST, BLUE RIDGE, GEORGIA 30513, (706) 632–4981.
- 2. THE SURVEY INDICATES THAT THIS PROPERTY DOES NOT LIE WITHIN A FLOOD HAZARD ZONE X AS IDENTIFIED ON A F.I.R.M. COMMUNITY PANEL NO. 13291C0152D DATED 09-28-07 AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - FEDERAL HAZARD INSURANCE ADMINISTRATION.
- 3. THIS SITE DOES NOT CONTAIN WETLANDS.
- 4. LAKE DOES NOT EXIST WITHIN 500' OF THE SITE.
- 5. A 50' UNDISTURBED VEGETATIVE BUFFER WILL BE MAINTAINED ADJACENT TO STATE WATERS, INCLUDING WETLANDS (FROM TOP OF BANK TO OR EDGE OF WATER). NONE
- 6. SITE DOES NOT CONTAIN STATE WATERS WHICH ARE SUBJECT TO A 25-FOOT STATE WATERS BUFFER FROM TOP OF BANK OR EDGE OF WATER.

UTILITY NOTES

- 1. ALL IMPROVEMENTS TO CONFORM WITH CITY OF BLAIRSVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS (LATEST EDITION). THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPLICABLE UTILITY AND OBTAINING THE APPLICABLE SPECIFICATIONS
- 2. CONTRACTOR TO NOTIFY CITY OF BLAIRSVILLE INSPECTOR DEPARTMENT 24 HOURS PRIOR TO BEGINNING EVERY PHASE OF CONSTRUCTION. PHONE: 706-745-2000.
- 3. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT
- HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER. 4. ALL WORK PERFORMED ON COUNTY RIGHT-OF-WAYS SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE CITY OF BLAIRSVILLE STANDARDS & SPECIFICATIONS.
- 5. ANY WORK IMPACTING TRAFFIC FLOW OR SAFETY SHALL BE DONE IN ACCORDANCE WITH AND APPROVED BY CITY OF BLAIRSVILLE ENGINEERING DEPARTMENT AND GEORGIA D.O.T.
- 6. ALL MATERIAL SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE APPROVED BY THE OWNER IN WRITING. 7. RIP-RAP SHALL BE PLACED AT ALL STORM DRAIN HEADWALLS AND CONSIST OF 50
- POUND STONES.
- BLAIRSVILLE WORK. PHONE: 811
- SLOPES OVER 14%.
- STREAM IS PROHIBITED.
- DELINEATED ON THESE PLANS.
- 17. ALL MANHOLES SHALL USE CAST IN BOLT DOWN RING, COVER AND GASKET. 18. THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL, PROVIDED IT IS NOT BURIED WITHIN 100' OF ANY PROPERTY LINE OR ENCLOSED STRUCTURE.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO STATE APPROVED LANDFILL. 19. SEE SHEET C-13 FOR PIPE BEDDING DETAILS. 20. THE CITY OF BLAIRSVILLE MAY HAVE AN APPROVED CONTRACTOR LIST FOR

RESPONSIBILITY OF THE CONTRACTOR.

| ABBREVIATIONS | |
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| GI - GRATE INLET GM -GAS METER GMD -GEORGIA MILITIA DISTRICT G.P.SGLOBAL POSITIONING SYSTEM GV -GATE VALVE HC -HANDICAP HDPE -HIGH DENSITY POLYETHYLENE HGL -HYDRAULIC GRADE LINE H.L.PHOUSE LOCATION PLAN REQUIRED HP -HIGH POINT HW -HEADWALL ID -INSIDE DIAMETER IE -INVERT ELEVATION IN -INCH IPF -IRON PIN FOUND IPS -IRON PIN SET IRR -IRRIGATION LINE JB -JUNCTION BOX JT -JOINT LF -LINEAR FOOT/FEET LLL -LAND LOT LINE LOD -LIMITS OF DISTURBANCE L.PLIGHT POLE MAX -MAXIMUM MH -MANHOLE MIN -MINIMUM MISC -MISCELLANEOUS MON -MONUMENT MSL -MEAN SEA LEVEL MT -MARKED TREE N/F - NOW OR FORMERLY NTS -NOT TO SCALE NONUMBER NPW - NON-POTABALE WATER OCS -OUTLET CONTROL STRUCTURE OD -OUTSIDE DIAMETER P.BPLAT BOOK PC -POINT OF CURVATURE PGPAGE M -PONNING | P.O.C -POINT OF COMMENCEMENT PROP -PROPOSED PT -POINT OF TANGENCY PVMT -PAVEMENT PVC -POLYVINYL CHLORIDE PIPE R -RADIUS RCP -REINFORCED CONCRETE PIPE R.D.PRESIDENTIAL DRAINAGE PLAN REQUIRED REV -REVISED OR REVISION RW - REUSE WATER R/W -RIGHT OF WAY SD -STORM DRAIN SS -SANITARY SEWER SSE -SANITARY SEWER EASEMENT ST - STORM SEWER LINE STA - STATION NUMBER SW -SIDEWALK SWCB-SINGLE WINGED CATCH BASIN T -TELEPHONE TC -TOP OF CURB ELEVATION TOB -TOP OF BANK TPF - TREE PROTECTION FENCING T.P.O.BTRUE POINT OF BEGINNING U -UNDERGROUND VCP -VITRIFIED CLAY PIPE W -WATER W -WATER METER WV -WATER VALVE YI - YARD INLET |

- 8. ALL DISTURBED AREAS TO BE RETURNED TO EXISTING GRADE AS SOON AS CONSTRUCTION PHASES PERMIT.
- 9. THERE WILL BE NO DISPOSAL OF DEBRIS ONSITE, ALL CONSTRUCTION DEBRIS SHALL BE REMOVED AND DISPOSED OF PROPERLY BY THE CONTRACTOR. 10. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL INFRASTRUCTURE FOR A ONE
- YEAR PERIOD FOLLOWING FINAL ACCEPTANCE OF THE PROJECT BY CITY OF 11. CONTRACTOR TO NOTIFY UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF
- 12. ALL PERMANENT SANITARY SEWER EASEMENTS SHOULD BE DRIVABLE WITH NO CROSS
- 13. CONSTRUCTION DEBRIS, LIQUID CONCRETE, OLD RIP-RAP, OLD SUPPORT MATERIALS, AND OTHER LITTER IN STREAMS OR IN AREAS OF POTENTIAL MIGRATION INTO THE
- 14. NO BURY PITS ALLOWED WITHIN SANITARY SEWER EASEMENTS.
- 15. NO FENCES, STRUCTURES, OR OTHER OBSTRUCTIONS ALLOWED WITHIN SANITARY SEWER EASEMENTS UNLESS OTHERWISE SHOWN IN DRAWINGS 16. LIMITS OF CLEARING SHALL BE WITHIN THE TEMPORARY CONSTRUCTION EASEMENTS
- INSTALLATION AND/OR MANUFACTURER OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE COUNTY TO OBTAIN THE APPLICABLE LIST.
- 21. THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THERE COULD BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE

SANITARY SEWER NOTES

- ANCHOR COLLARS SHALL BE PROVIDED ON SANITARY SEWER LINES WHOSE SLOPE EXCEEDS
- 2. TOPS OF EXISTING MANHOLES SHALL BE RAISED/LOWERED AS NECESSARY TO BE FLUSH WITH NEW FINISHED GRADES.
- 3. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATION OF EXISTING WASTEWATER SYSTEM AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION OF NEW LINES.
- 4. SANITARY SEWER LINES SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO BACKFILLING. 5. MINIMUM ANGLE BETWEEN INFLUENT AND EFFLUENT SANITARY SEWER LINES AT A MANHOLE =
- 90 DEGREES. 6. ALL SEWER PIPE CONSTRUCTION MUST CONFORM TO CITY OF BLAIRSVILLE COUNTY STANDARDS
- AND SPECIFICATIONS. 7. ALL WASTE WATER EASEMENTS MUST BE DRESSED AND GRASSED TO CONTROL EROSION PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT.
- 8. NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
- 9. LOW PRESSURE AIR TESTING IS REQUIRED FOR ALL WASTE WATER PIPE SYSTEMS. THIS TEST MUST MEET ALL REQUIREMENTS AS OUTLINED IN ASTM C-828-80 OR CURRENT REVISION. AN INSPECTOR MUST BE PRESENT DURING TESTING. 10. NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
- 11. EIGHT INCH OR LARGER PIPE LINES SHOULD BE TV INSPECTED.
- 12. COMPACTION OF BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO 90% OF THE PROCTER DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER DEBRIS AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. THE USE OF PRECAST INVERT MANHOLES IS ACCEPTABLE PROVIDED THE INVERTS ARE NOT MODIFIED.
- 14. AS-BUILTS AND RECORD DRAWINGS ARE REQUIRED PRIOR TO REQUESTING A CERTIFICATE OF OCCUPANCY.

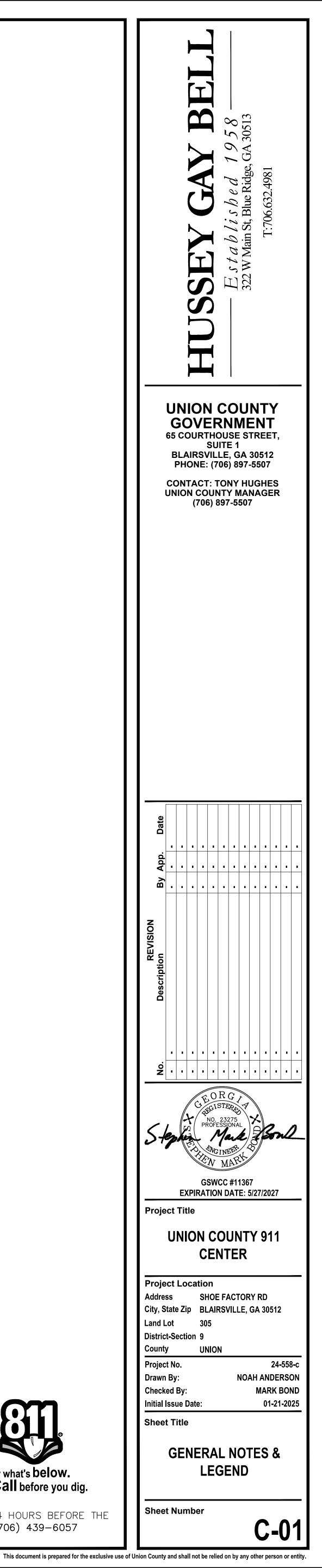
CONDITIONS FOR PVC (SEWER)

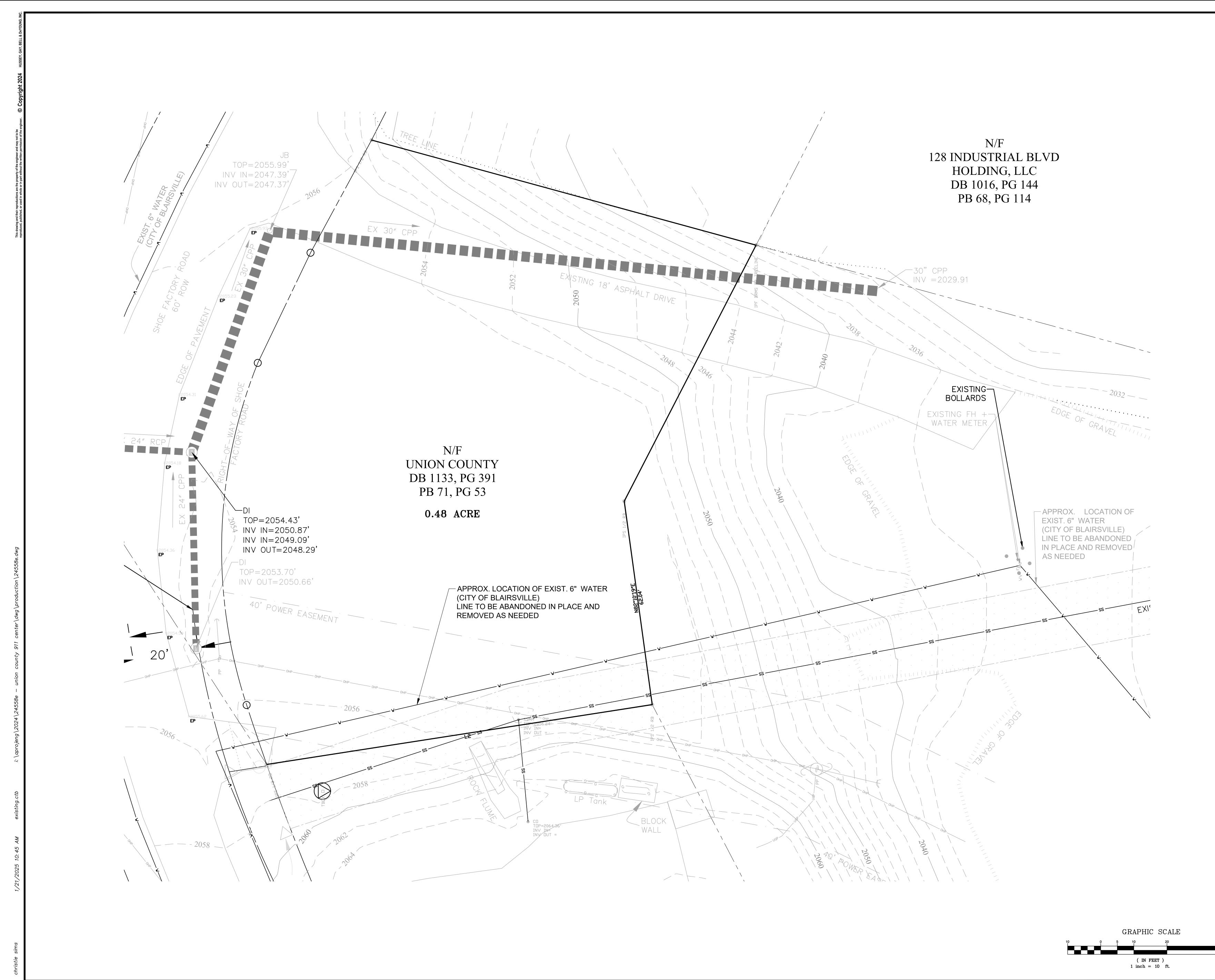
- 1. PIPE SHALL BE ASTM-3034, SDR 35 IN 12.5 FOOT LAYING LENGTHS WITH ELASTOMERIC SEALED JOINTS IN ACCORDANCE WITH ASTM-D3212.
- 2. PIPE BEDDING SHALL BE #57, SHARP, ANGULAR, CRUSHED STONE. BEDDING SHALL EXTEND A MINIMUM OF 4" BELOW THE PIPE AND EXTEND TO THE TOP OF THE PIPE. THE BEDDING SHALL BE COMPACTED BY "SLICING WITH A FLAT SHOVEL". THE WIDTH OF THE DITCH AT THE TOP OF THE PIPE SHALL BE A MAXIMUM OF 3'.
- 3. INITIAL BACKFILL: AFTER BEDDING, COMPLETE INITIAL BACKFILL WITH # 57 STONE. IF NO ROCK IS ENCOUNTERED, INITIAL BACKFILL SHALL EXTEND TO A HEIGHT 6" ABOVE THE TOP OF THE PIPE. OTHERWISE INITIAL BACKFILL SHALL EXTEND TO 12" ABOVE THE TOP OF PIPE. 4. FITTINGS FOR LATERAL CONNECTIONS SHALL BE 45' WYES AND BENDS. PROVIDE PVC PIPE
- STOPPERS FOR EACH LATERAL. PROVIDE SPECIAL WATER-TIGHT CONNECTIONS AT MANHOLES AND TRANSITIONS TO DUCTILE IRON PIPE AS RECOMMENDED BY THE PIPE MANUFACTURER.
- 5. AFTER INSTALLATION, A DEFLECTION TEST IS REQUIRED. INITIAL DEFLECTION SHALL BE LIMITED TO 3% OF THE UNDEFLECTED DIAMETER. A SECOND TEST SHALL BE MADE AT LEAST 8 MONTHS AFTER THE INSTALLATION BUT BEFORE FINAL ACCEPTANCE. AT THAT TIME, DEFLECTION SHALL BE LIMITED TO 5% OF THE UNDEFLECTED DIAMETER.

WATER NOTES

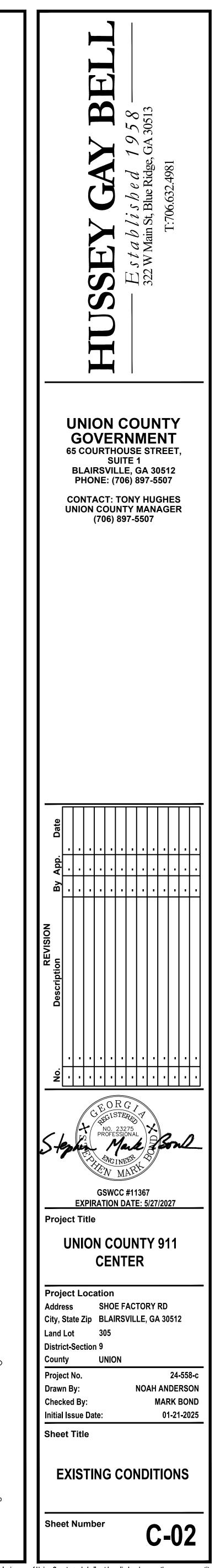
- 1. THE LOCATION OF THE DOMESTIC AND FIRE LINES MUST BE COORDINATED W/THE BUILDING PLUMBING PLAN PRIOR TO INSTALLATION.
- 2. NO TEES ALLOWED ON WATER MAIN TIE-INS. USE STAINLESS STEEL TAPPING SLEEVE AND TAPPING VALVE.
- 3. ALL CITY WATERLINE SHALL BE DUCTILE IRON PIPE AND COMPLY TO ANSI/AWWA AZ1-111-85 STANDARD SPECIFICATIONS.
- 4. ALL BENDS MUST INCLUDE MEGA-LUGS AND CONCRETE KICKERS. THRUST BLOCKS SHALL BE LOCATED AT ALL WATER PIPE VALVES,
- 5. VERTICAL BENDS, AND VERTICAL ELBOWS, TEES AND FIRE HYDRANTS. 6. ALL WATER VALVE MARKERS SHALL BE PLACED AT ALL LOCATIONS WHERE WATER VALVES ARE NOT IN THE STREETS. WATER VALVES THAT ARE IN THE STREET WILL BE CLEARLY MARKED ON
- THE CURB. 7. NOTIFY THE CITY OF BLAIRSVILLE 48 HOURS PRIOR TO START OF EACH PHASE OF CONSTRUCTION.

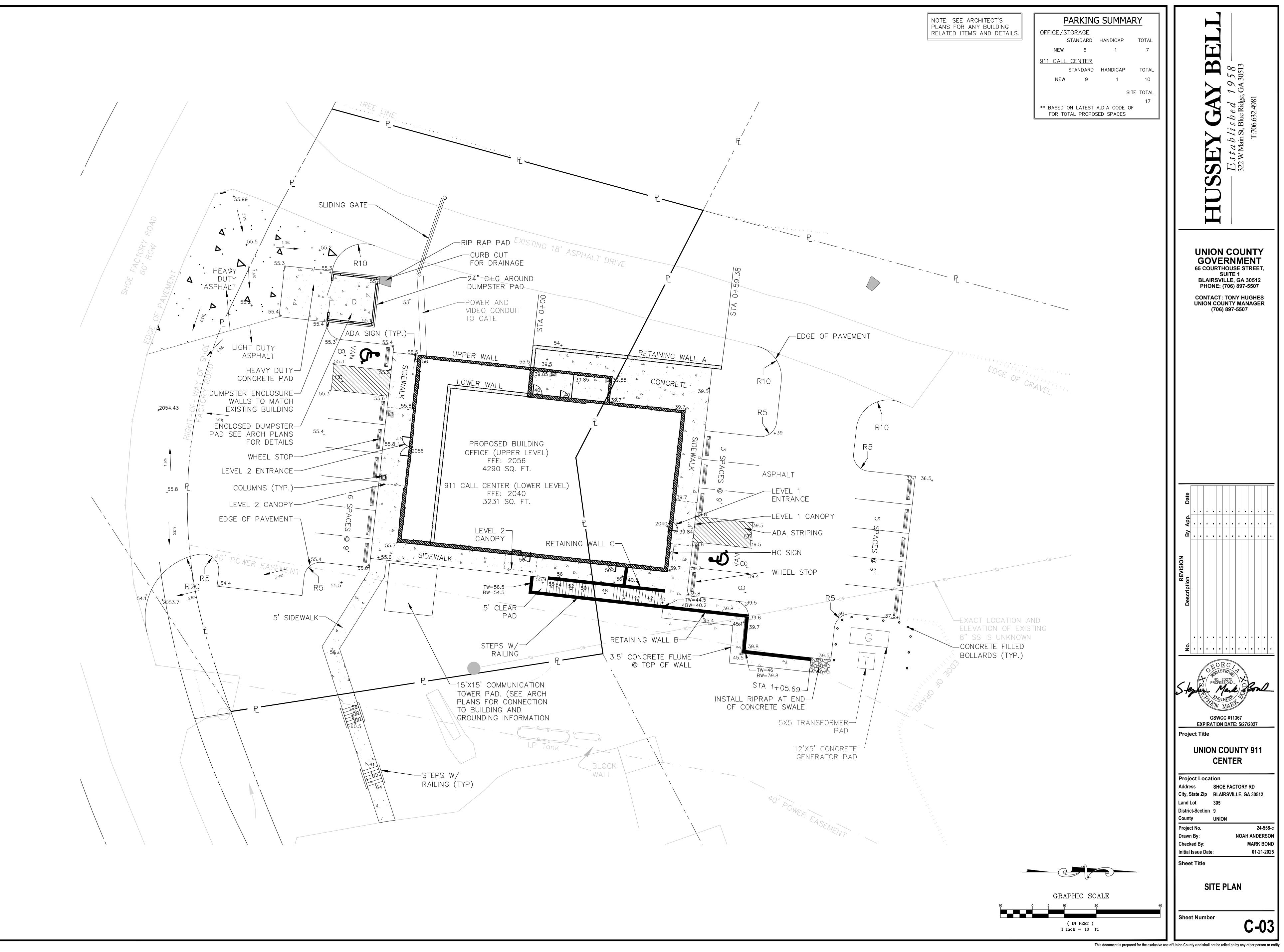


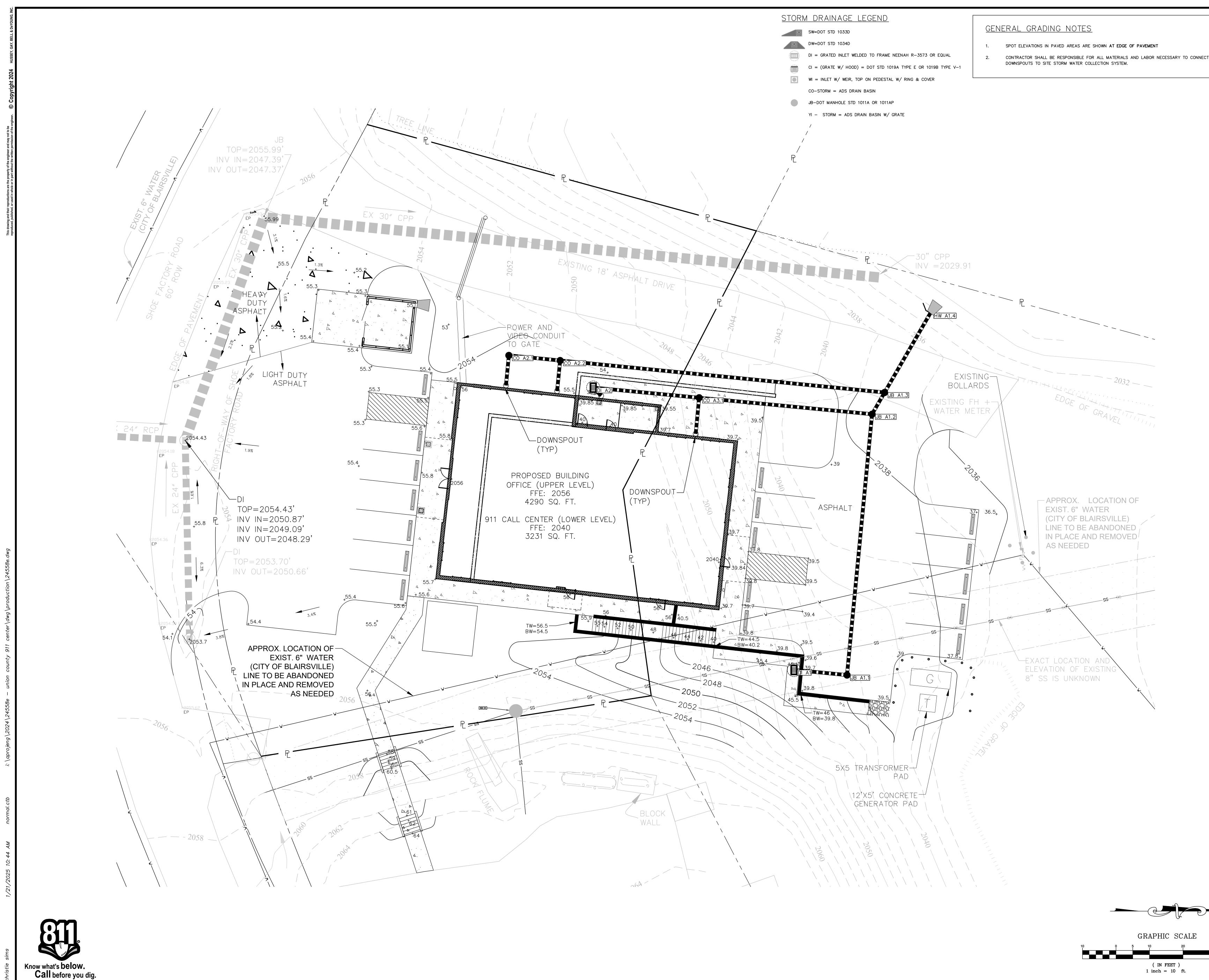




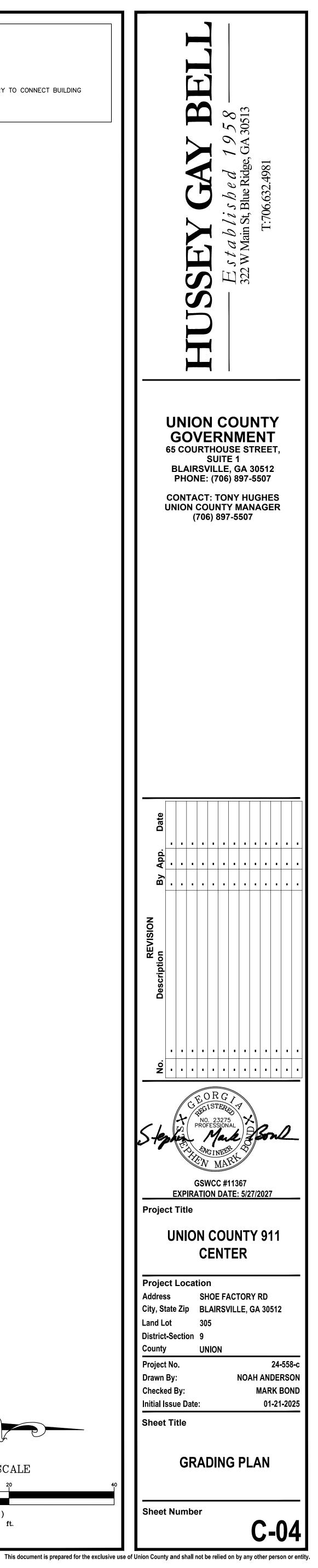
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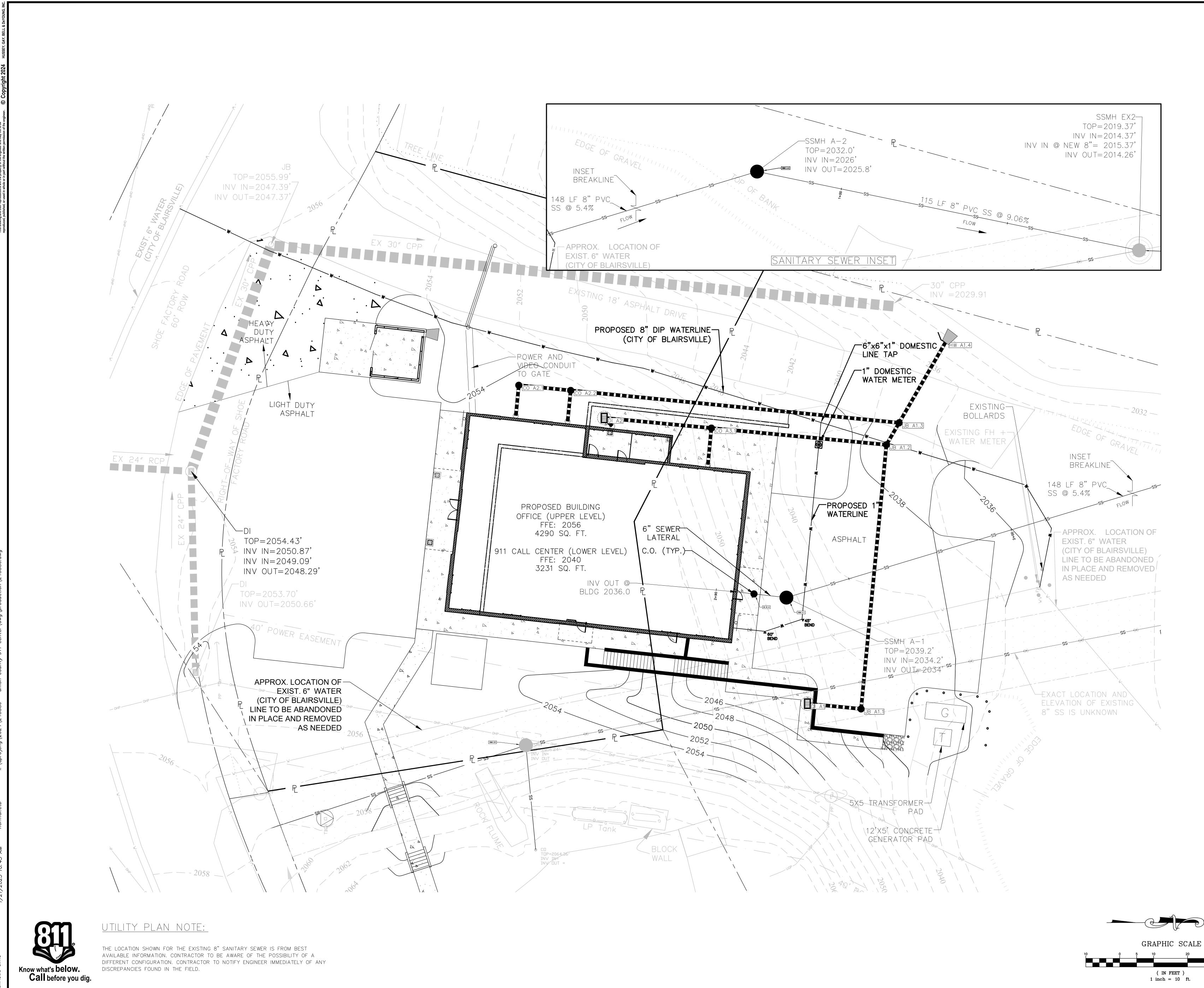


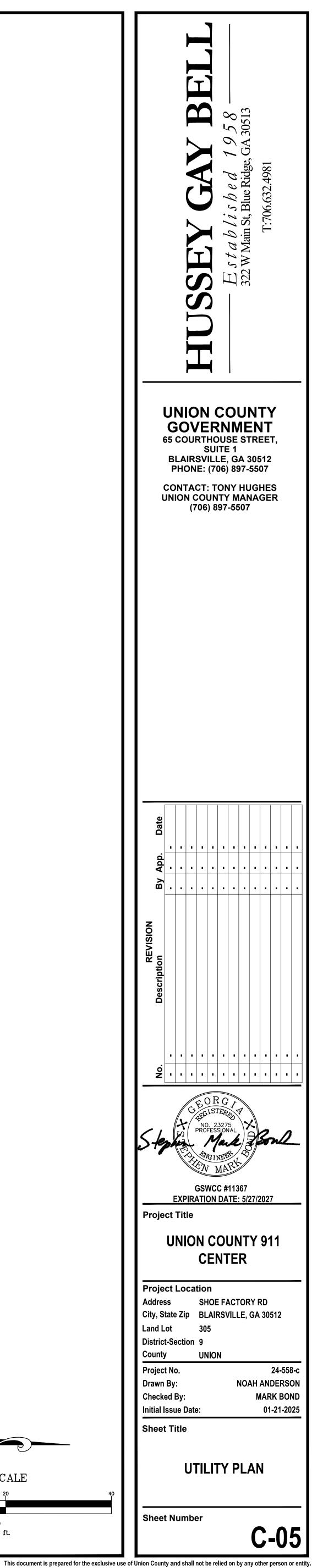


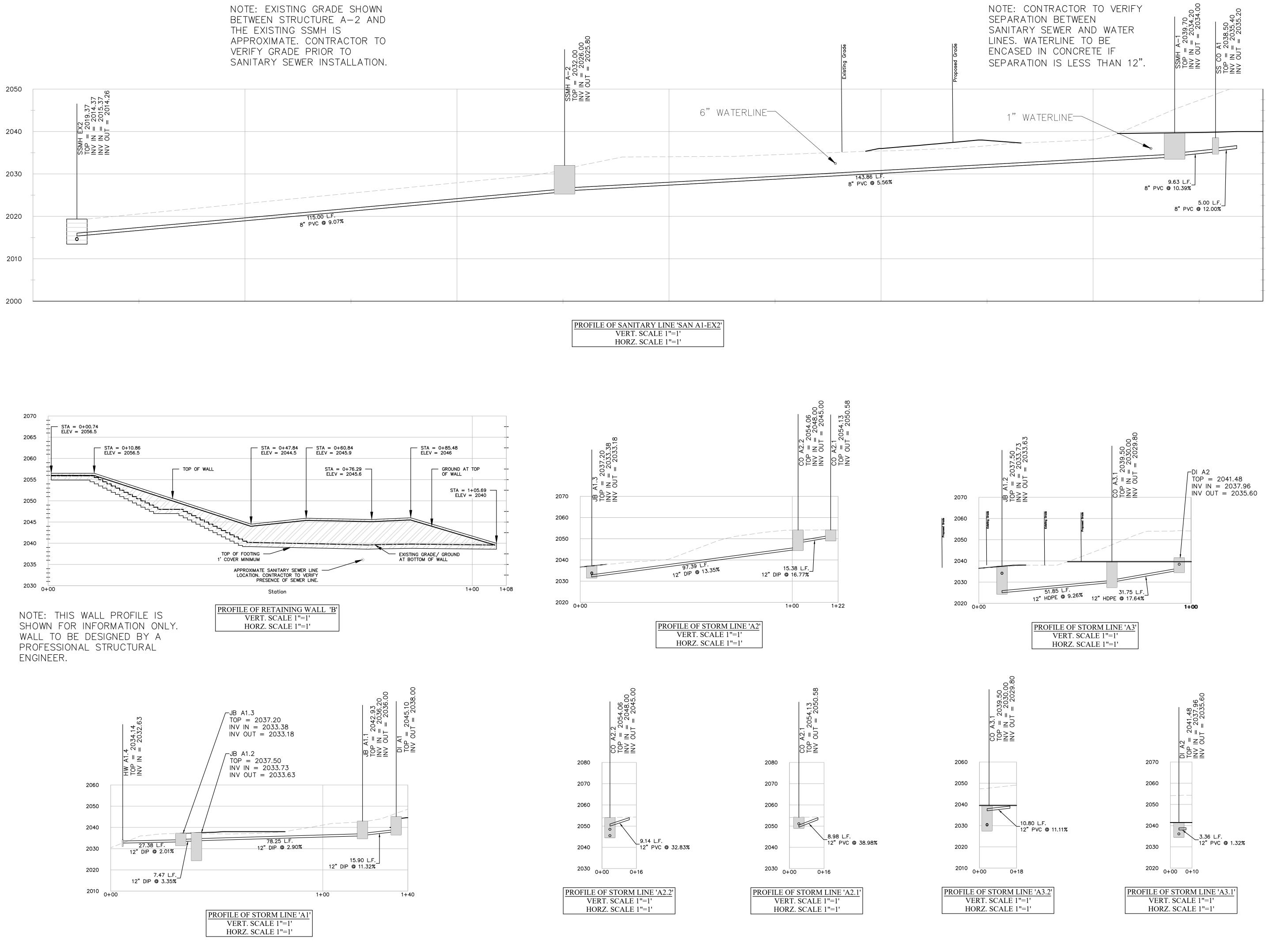


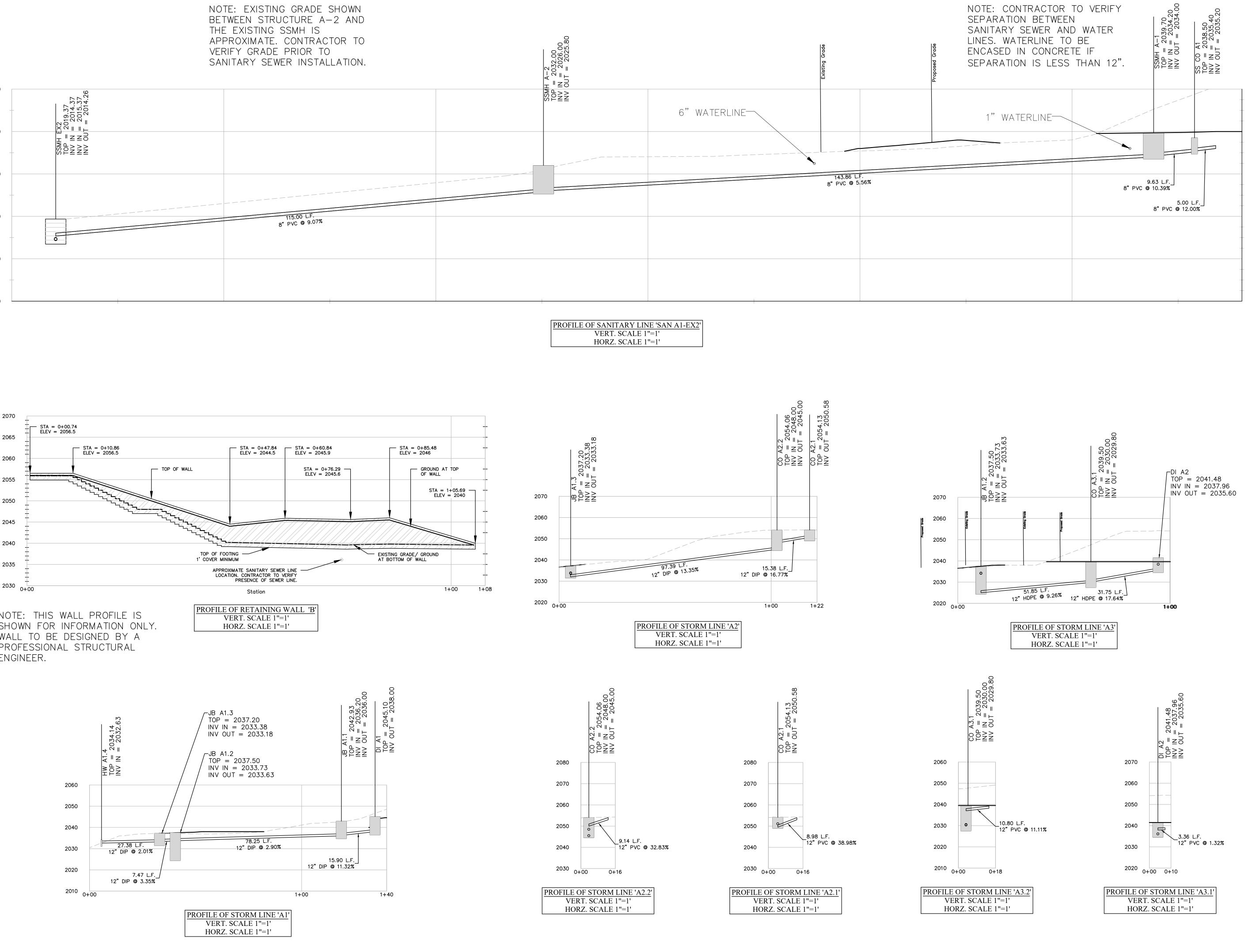
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR NECESSARY TO CONNECT BUILDING

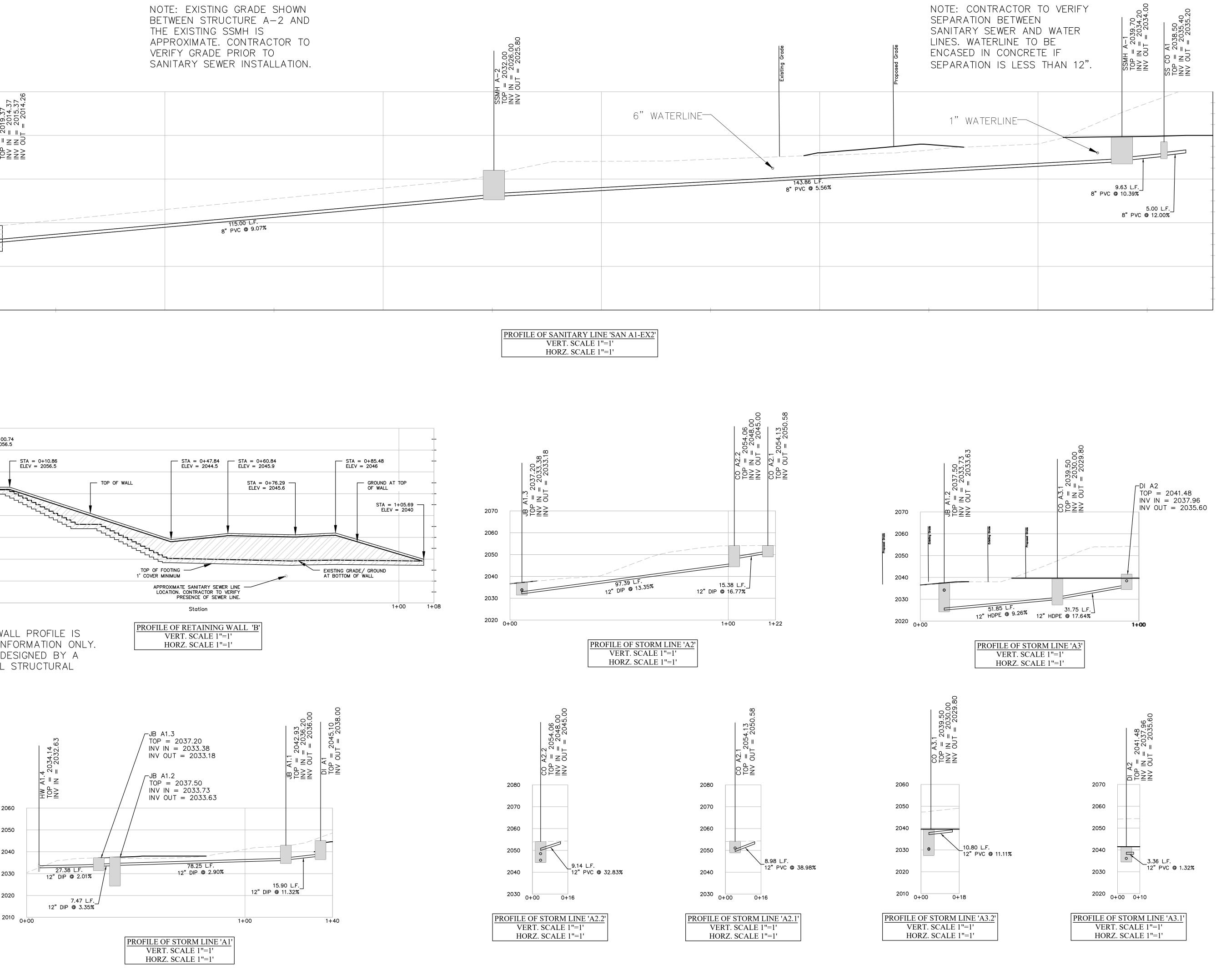


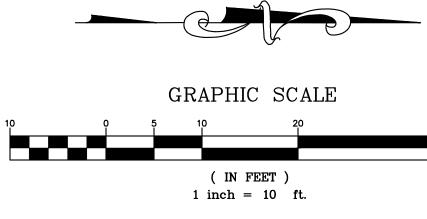


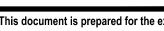


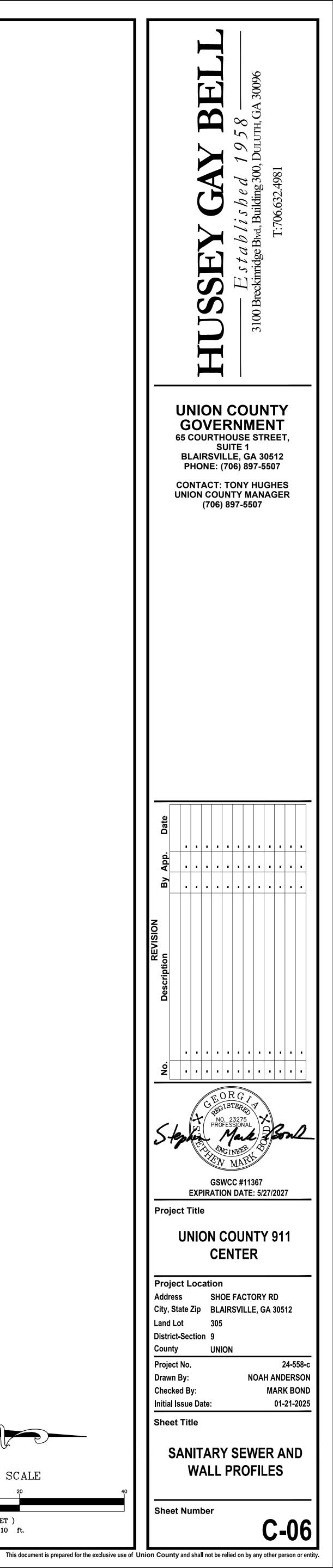


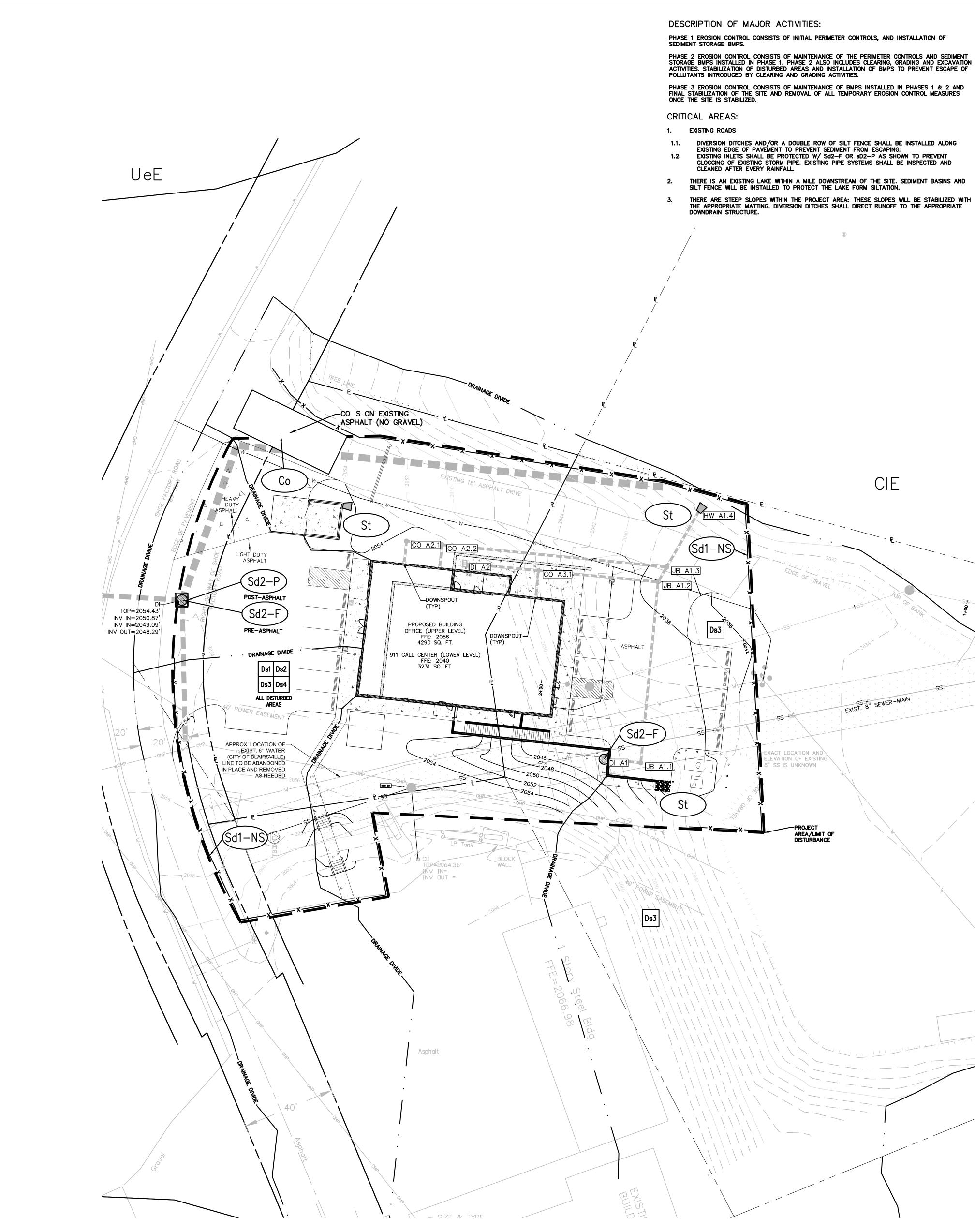




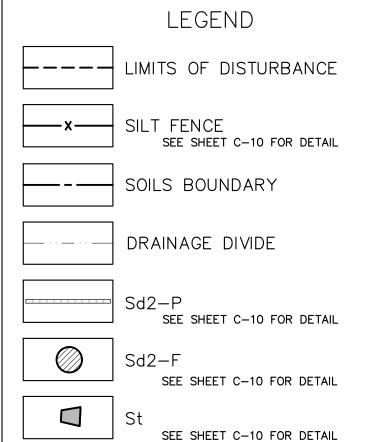


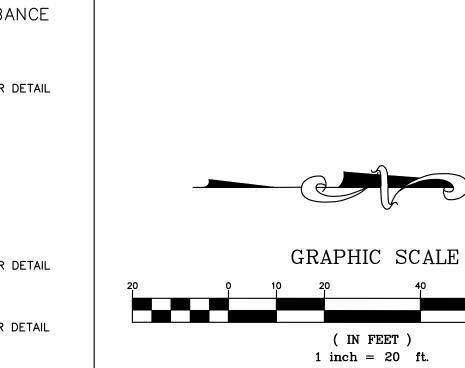






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| This document is prepared for t | ne |





24 HOUR EMERGENCY CONTACT: MR. TONY HUGHES (706) 897-5507

UeE – URBAN LAND-EVARD-CLIFTON COMPLEX, 10 TO 35 PERCENT SLOPES.

PERCENT SLOPES.

CIE - CLIFTON-EVARD COMPLEX, 10 TO 25 PERCENT SLOPES.

CxF - COWEE-EVARD COMPLEX, 25 TO 45

SOIL CLASSIFICATION TABLE

FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL THE EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO GEORGIA STANDARDS. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL

THE CONTRACTOR AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXISTS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY

III EROSION NOTES:

ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREAS THAT PROVIDES A SECONDARY CONTAINMENT FEATURE. TYPICALLY THIS WILL CONSIST OF AN EARTHEN BERM CONSTRUCTED AROUND 3 SIDES OF THE STORAGE AREA. EMERGENCY PROCEDURES FOR SPILLS SHALL BE KEPT IN THE CONSTRUCTION TRAILER INCLUDING EMERGENCY CONTACT NUMBERS. THE CONTRACTOR SHALL LOCATED STORAGE FACILITIES IN AREAS WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR.

PORTAJOHNS SHALL BE LOCATED ONSITE AND USED DURING CONSTRUCTION.

MATERIAL EMERGENCY PROCEDURES FOR SPILL OR REPORTABLE QUALITY OF PETROLEUM PRODUCTS: 5.

UNCLASSIFIED FILL AREAS AS DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER. PAINT AND/OR OTHER CHEMICALS SHALL BE STORED IN SECURED FACILITIES WITH RESTRICTED ACCESS TO EMPLOYEES ONLY. CLEAN UP AND DISPOSAL OF THIS MATERIAL SHALL BE IN ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE APPROVED OFF-SITE WASTE FACILITIES CLASSIFIED TO ACCEPT THAT

II EROSION NOTES: SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY. DISTURBED AREAS ARE TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. 2. STORAGE LOCATION AND DISPOSAL PROCEDURES FOR CONCRETE TRUCK OR MIXER WASH OUT: CONCRETE TRUCK WAS OUT LOCATION SHALL BE IN A TEMPORARY TRUCK WASH AREA LOCATED IN AN AREA DESIGNATED BY THE CONTRACTOR. WASH OUT SHALL BE CONTAINED WITHIN A PIT OR TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED AREAS SHOWN TO BE SAVED ON THE TREE SAVE PLAN. DISPOSAL OF MATERIAL SHALL BE EITHER THE BREAKING OF MATERIAL INTO ACCEPTABLE PIECES AND PLACEMENT WITHIN

15. SOLID WASTE DISPOSAL TO BE OFF-SITE AS DESCRIBED IN THE SOLID WASTE MANAGEMENT AFFIDAVIT. NOT DISCHARGE TO WATERS OF THE STATE EXCEPT AS AUTHORIZED BY A SECTION

3. PROPERTY OWNER: UNION COUNTY GOVERNMENT 65 COURTHOUSE STREET, SUITE 1 BLAIRSVILLE, GA 30512 CONTACT: TONY HUGHES UNION COUNTY MANAGER

PHONE: (706) 897-5507

ucmanager@uniongov.com

404 PERMIT.

13. THERE ARE NO WETLANDS ON THE PROPOSED PROJECT. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROPOSED PROJECT. 14. THERE IS NO TREE PROTECTION REQUIRED FOR THIS SITE.

CONTRACTOR.

EROSION NOTES:

4. PROJECT ACREAGE = 0.97 ACRES

6. THE ADJACENT PROPERTY IS ZONED XXX.

7. THERE ARE NO STREAM BUFFERS ON THE PROJECT.

5. DISTURBED AREA = 0.69 ACRES

DRIVES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN 9. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN STORAGE STRUCTURES, INDICATING THE 3/3 FULL VOLUME (CLEAN OUT LEVEL). DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, 10. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. GRADING. 11. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING. 12. CONCENTRATED FLOW AREAS AND ALL SLOPES GREATER THAN 2.5:1 WITH A HEIGHT OF 10 FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.

6.

3.

HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

THIS SHEET IS FOR EROSION, SEDIMENT &

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS

MEASURED FROM THE POINT OF WRESTED VEGETATION OR

WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS

ADDITIONAL EROSION & SEDIMENT CONTROL

NOTE: CONTRACTOR SHALL REFERENCE THE LATEST

CONSTRUCTION, MAINTENANCE AND DISPOSAL OF ALL

MEASURES WILL BE INSTALLED IF DEEMED

EDITION OF THE "MANUAL FOR EROSION AND

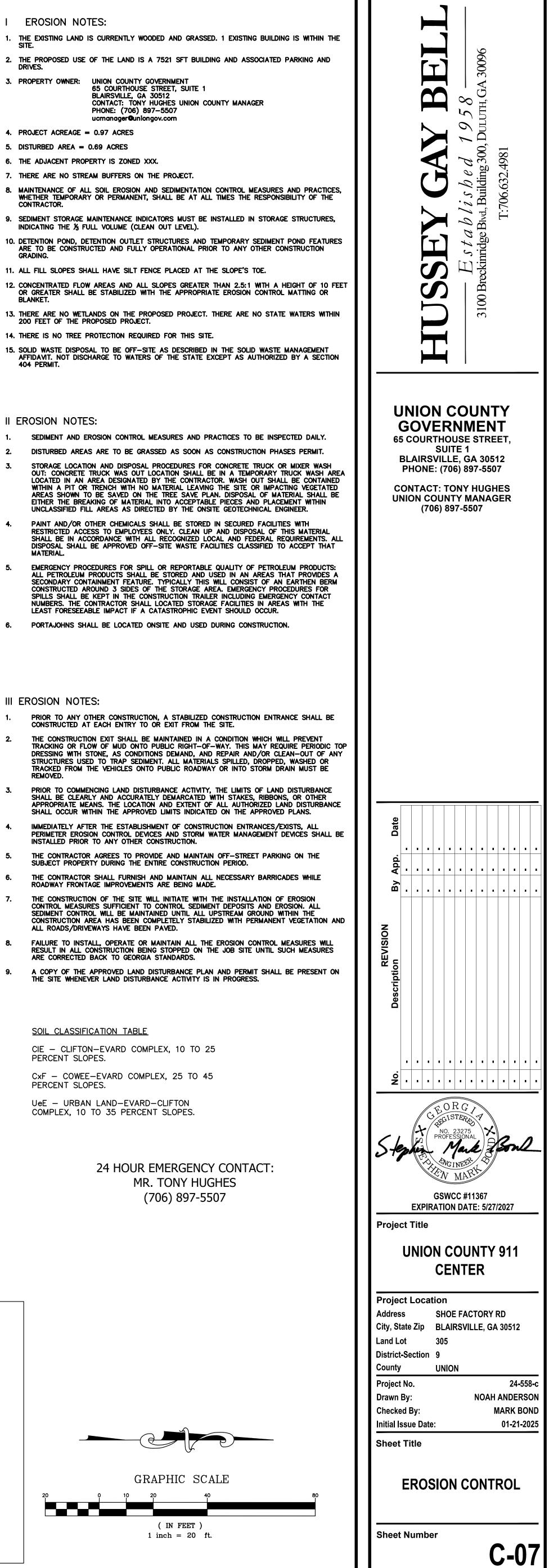
EROSION AND SEDIMENT CONTROL MEASURES.

SEDIMENT CONTROL IN GEORGIA" FOR THE

NECESSARY BY ON-SITE INSPECTION

POLLUTION CONTROL PURPOSES ONLY.

MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A



e exclusive use of Union County and shall not be relied on by any other person or entity.

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION | CODE | PRAC |
|----------------------|---------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------|
| Cd | CHECKDAM | | J | A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow. | Sr | TEMF ST CR(|
| Ch | CHANNEL STABILIZATION | | TT | Improving, constructing or stabilizing an open channel, existing stream, or ditch. | St | STOF OL PRO |
| Co CONSTRUCTION EXIT | | (LABEL) | A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets. | Su | SU ROU | |
| Cr | CONSTRUCTION ROAD STABILIZATION | | Cr | A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on—site vehicle transportation routes. | Тс | TUF CL |
| Dc | STREAM DIVERSION CHANNEL | | | A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed. | Тр | TOP |
| Di | DIVERSION | | | An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure. | Tr | PRO |
| Dn1 | TEMPORARY DOWNDRAIN STRUCTURE | | Dn1 (LABEL) | A flexible conduit of heavy—duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive. | Wt | VEG WATE STOF CON CH |
| Dn2 | PERMANENT DOWNDRAIN STRUCTURE | | Dn2 (LABEL) | A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope. | | |
| Fr | FILTER RING | | | A temporary stone barrier constructed at storm drain inlets and pond outlets. | | |
| Ga | GABION | | S | Rock filter baskets which are hand-placed into position forming soil stabilizing structures. | CODE | PRAC |
| Gr | GRADE STABILIZATION STRUCTURE | | Gr J (LABEL) | Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. | Bf | BUFF |
| Lv | LEVEL SPREADER | | | A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils. | Cs | COAS STABILIZ VEGI |
| Rd | ROCK FILTER DAM | | | A permanent or temporary stone filter dam installed across small streams or drainageways. | Ds1 | DISTUF STABILIZ MULCF |
| Re | RETAINING WALL | * | Re (LABEL) | A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design. | Ds2 | DISTUR STAB (WIT SE |
| Rt | RETRO FITTING | | (LABEL) | A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter. | Ds3 | DISTUF STAB (WIT SE |
| Sd1 | SEDIMENT BARRIER | | (INDICATE TYPE) | | Ds4 | DISTUR STAB (SC |
| Sd2 | INLET SEDIMENT TRAP | | | An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities. A basin created by excavation or a dam | Du | DUST C DISTURE |
| Sd3 | TEMPORARY SEDIMENT BASIN | | (LABEL) | across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. | FI-Co | FLOCCU |
| Sd4 | TEMPORARY SEDIMENT TRAP | | | A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser. | Sb | STRE STAB (USII VEGE |
| Sk | FLOATING SURFACE SKIMMER | | (LABEL) | A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow. | Ss | SLOPE S |
| Spb | SEEP BERM | | Spb | Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers | Тас | TACKIF |

STRUCTURAL PRACTICES

| RACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|-----------------------------------------------------------------|------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | |
| TEMPORARY STREAM CROSSING | | (JABEL) | A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment. |
| STORMDRAIN OUTLET PROTECTION | | (37) | A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff. |
| SURFACE ROUGHENING | | Les | A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading. |
| TURBIDITY CURTAIN | | () () | A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain). |
| TOPSOILING | | (SHOW STRIPING AND STORAGE AREAS) | The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities. |
| TREE PROTECTION | \bigcirc | (DENOTE TREE CENTERS) | To protect desirable trees from injury during construction activity. |
| VEGETATED VATERWAY OR STORMWATER CONVEYANCE CHANNEL | | <u>++</u>) | Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures. |

VEGETATIVE PRACTICES

| RACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | |
| BUFFER ZONE | | Bf (LABEL) | Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams. |
| COASTAL DUNE ABILIZATION (WITH VEGETATION) | JANEXF + + + + + + + + + + + + + + + + + + + | Cs | Planting vegetation on dunes that are denuded artificially constructed, or re-nourished. |
| DISTURBED AREA ABILIZATION (WITH MULCHING ONLY) | | Ds1 | Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover. |
| DISTURBED AREA STABILIZATION (WITH TEMP SEEDING) | | Ds2 | Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. |
| DISTURBED AREA STABILIZATION (WITH PERM SEEDING) | Chrony Chrony Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line | Ds3 | Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. |
| ISTURBED AREA STABILIZATION (SODDING) | | Ds4 | A permanent vegetative cover using sods on highly erodable or critically eroded lands. |
| UST CONTROL ON STURBED AREAS | | Du | Controlling surface and air movement of dust on construction site, roadways and similar sites. |
| OCCULANTS AND COAGULANTS | | FI-Co | Substance formulated to assist in the solids/liquid separation of suspended particles in solution. |
| STREAMBANK STABILIZATION (USING PERM VEGETATION) | | Sb | The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems. |
| OPE STABILIZATION | | Ss | A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels. |
| ACKIFIERS AND BINDERS | | Тас | Substance used to anchor straw or hay mulch by causing the organic material to bind together. |
| | | | |

| DEFINITION | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST PROTECTION ON DISTURBED OR DENUDED AREAS. | GROW |
| REQUIREMENT FOR REGULATORY COMPLIANCE MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPO DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SH CONDITIONS FOR TEMPORARY GRASSING ARE LACKING, MULCH CAN CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIE ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF SPECIFICATION Ds1-DISTURBED AREA STABILIZATION (WITH TEMPORA | APPL IS EX IALL E BE US D AT THE |
| SPECIFICATIONS grading and shaping | |
| EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DES CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIV OTHERS. | |
| NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZ IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED. SEEDBED PREPARATION | ED BY |
| WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NO CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT R LOOSE AND NOT SEALED BY RAINFALL. | |
| WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOO PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE | |
| LIME AND FERTILIZER AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTH A RATE DETERMINED BY SOIL TEST FOR pH. BIO STIMULANTS SHOU LESS THAN 3% ORGANIC MATTER IN THE SOIL. SOILS MUST BE TES FERTILIZER AND AMENDMENT AMOUNTS. FERTILIZER SHOULD BE APP INCORPORATED WITH A DISK, RIPPER OR CHISEL. ON STEEP SLOPES APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND HYDRAU REMAINING REQUIRED APPLICATION RATE. | LD BE TED T PLIED I S, FER |
| SEEDING SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AF SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRI NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. A TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY BY HAND. | CULTI- LL OR APPRO |
| MULCHING TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED W MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TER REFER TO Ds1 – DISTURBED AREA STABILIZATION (WITH MULCHIN | M PRC |
| IRRIGATION DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED. | |
| Ds-2 DISTURBED AREA STABILIZATION w | / TE |
| | |
| | |
| DEFINITION | |
| A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE CONDITIONS THIS APPLICATION IS APPROPRIATE FOR AREAS WHICH REQUIRE IMME | OR C |
| INLETS, GRASS SWALES, AND WATERWAYS WITH INTERMITTENT FLOW. PLANNING CONSIDERATIONS | DIATE |
| | |
| SODDING CAN INITIALLY BE MORE COSTLY THAN SEEDING, BUT THE INITIAL COSTS. 1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK US 2. REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE L | ADVA |
| INITIAL COSTS. 1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK US 2. REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE L 3. CAN BE ESTABLISHED NEARLY YEAR-ROUND. SODDING IS PREFERABLE TO SEED IN WATERWAYS AND SWALES BEC | ADVAI SE. ACK C CAUSE |
| INITIAL COSTS. 1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK US 2. REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE L 3. CAN BE ESTABLISHED NEARLY YEAR-ROUND. | ADVAI SE. ACK C CAUSE CONCET |
| INITIAL COSTS. 1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK US 2. REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE L 3. CAN BE ESTABLISHED NEARLY YEAR-ROUND. SODDING IS PREFERABLE TO SEED IN WATERWAYS AND SWALES BEC THE CHANNEL AFTER APPLICATION. SODDING MUST BE STAKED IN C 6-6.1) CONSIDER USING SOD FRAMED AROUND DROP INLETS TO RE GRADE. | ADVA SE. ACK C CAUSE CONCEI DUCE |
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WING SEEDINGS FOR SEASONAL

AREAS WITHIN 14 DAYS OF PLIED TO ROUGH GRADED AREAS EXPECTED TO BE UNDISTURBED FOR BE USED. IF OPTIMUM PLANTING USED AS A SINGULAR EROSION THE APPROPRIATE DEPTH, SOIL SURFACE. REFER TO SEEDING).

AND INSTALLED EROSION IONS, SEDIMENT BARRIERS AND

Y HAND-SEEDED VEGETATION OR

REQUIRED. WHEN USING JIRED IF THE SOIL MATERIAL IS

CUT SLOPES, THE SOIL SHALL BE SEED TO LODGE AND GERMINATE

WISE. APPLY AGRICULTURAL LIME AT BE CONSIDERED WHEN THERE IS TO DETERMINE REQUIRED BEFORE LAND PREPARATION AND RTILIZER SHALL BE HYDRAULICALLY MULCH, THEN TOPPED WITH THE

AND SEASON OF THE YEAR. SEED -PACKER-SEEDER, OR CULTIPACKER SEEDERS SHOULD OPRIATE DEPTH OF PLANTING IS COVER SEED WITH SOIL IF SEEDED

T THE USE OF MULCH. OTECTION. LY).

CAUSING RUNOFF AND EROSION. JRE GERMINATION OF THE SEED.

EMPORARY SEEDING 2016

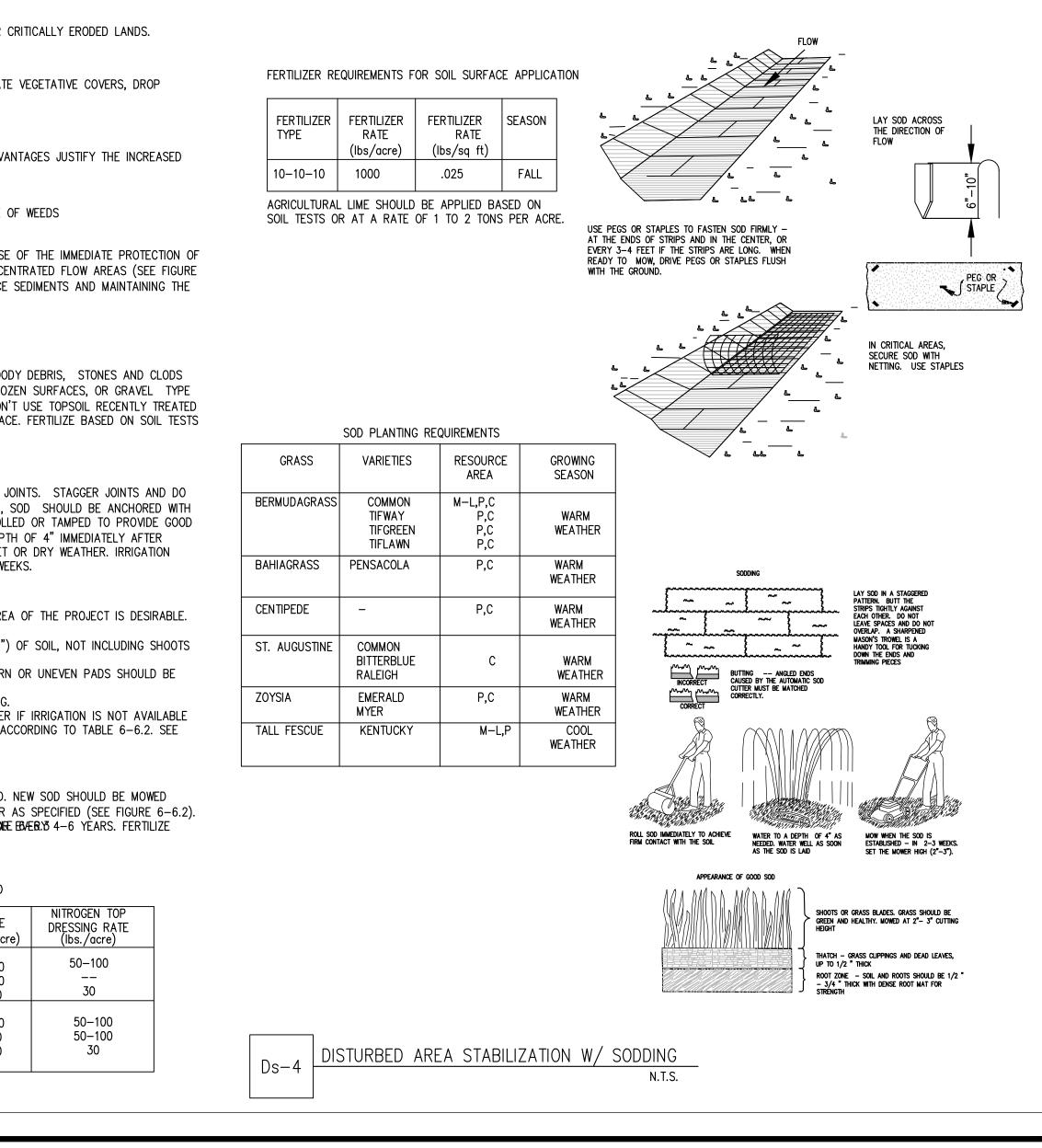
| | ECIES BROADCAST RATES 2/ - PLS 3/ PER ACRE PER 1000 S.F. AREA 4/ J F | | | F | ۲L | NT | IN(| ΞC |)AT | ES |) | | | | |
|------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------|---------------|---|----------|-------------|-----|----|-------------|-------------|-------|---|----------|---|----------------------------------------------------------------------------------------------------------------------------|
| SPECIES | RATES 2/ | - PLS 3/ PER 1000 S.F. | AREA 4/ | J | F | М | A | М | J | J | A S | 0 | N | D | REMARKS |
| BARLEY (Hordeum vulgare) ALONE IN MIXTURES | 144 LBS. 24 LBS. | 3.3 LBS. 0.6 LBS. | M-L P C | J | F | м | A | м | J | - - - | | 0 | - - | D | 14,000 SEED PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS. |
| LESPEDEZA, ANNUAL (Lespedeza striata) ALONE IN MIXTURES | 40 LBS. 10 LBS. | 0.9 LBS. 0.2 LBS. | M–L P C | | | | | | | | A S | | | | 200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT EL. |
| LOVEGRASS, WEEPING (Eragrotis curvula) ALONE IN MIXTURES | 4 LBS. 2 LBS. | 0.1 LBS. 0.05 LBS. | M-L P C | J | | | A | M | _ _ J | J | A S | 0 | N | D | 1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA |
| MILLET, BROWNTOP (Panicum fasciculatum) ALONE IN MIXTURES | 40 LBS. 10 LBS. | 0.9 LBS. 0.2 LBS. | M–L P C | J | F | - - - | ► | м | J | | A S | 0 | N | D | 137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES. |
| RYE (Secale cereale) ALONE IN MIXTURES | 168 LBS. 28 LBS. | 3.9 LBS. 0.6 LBS. | M–L P C | J | | M | A | M | J | J | , | 0 | - N | D | 18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY. |
| RYEGRASS, ANNUAL (Lolium temulentum) ALONE | 40 LBS. | 0.9 LBS. | M–L P C | | | _ | _ | | | | | 1 | - | - | 227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS <u>NOT</u> TO BE USED IN MIXTURES. |
| MILLET, PEARL (Panicum glaucum) ALONE | 50 LBS. | 1.1 LBS. | M–L P C | J | F | | _ | Ι | ' - J | - | A 5 | | | | 88,000 SEED PER POUND. QUICK, DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES. |
| OATS (Avena sativa) ALONE IN MIXTURES | 128 LBS. 32 LBS. | 2.9 LBS. 0.7 LBS. | M–L P C | J | F | | | | J | | A S | | | - | 13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY. |
| SUDAN GRASS (Sorghum sudanese) ALONE | 60 LBS. | 1.4 LBS. | M–L P C | J | F | | | | 1 | | A S | 0 | N | D | 55,000 SEED PER POUND. GOOD <u>NOT</u> ON DROUGHT SITES. RECOMMENDED FOR MIXTURES. |
| TRITICALE (X-Triticosecale) ALONE IN MIXTURES | 144 LBS. 24 LBS. | 3.3 LBS. 0.6 LBS. | С | J | F | | | | J | | | | | - | USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY. |
| WHEAT (Triticum aestivum) ALONE IN MIXTURES | 180 LBS. 30 LBS. | 4.1 LBS. 0.7 LBS. | M–L P C | | F | | | м | | | - | - | | | 15,000 SEED PER POUND. WINTERHARDY. |

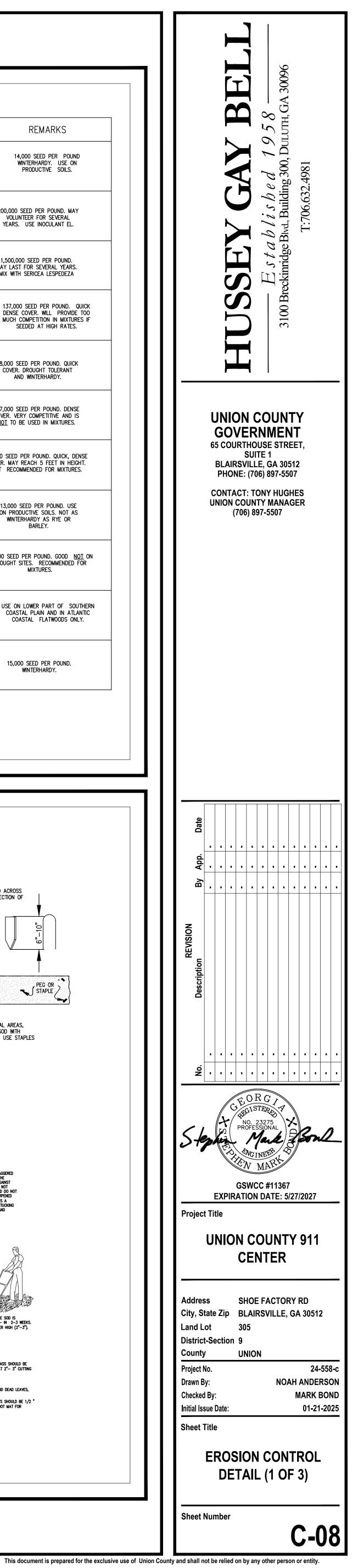
1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO HEAVILY.

2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED. 3/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED.

4/ M-L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S P REPRESENTS THE SOUTHERN PIEDMONT MLRA

C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRAS





| | THIS PRACTICE SHALL BE APP UNDISTURBED FOR LONGER TH IMMEDIATELY TO ALL AREAS A DISTURBING ACTIVITIES AT THE AREAS NOT COVERED BY PERI UNIFORMLY COVERED IN PERM. MEASURES (SUCH AS THE USE BEEN EMPLOYED. PERMANENT VINES; A CROP OF PERENNIAL GROWING SEASON A 70% COVE FINAL STABILIZATION APPLIES PROJECTS ON LAND USED FOF MAY BE ACCOMPLISHED BY ST SILVICULTURAL USE. UNTIL THI FACILITIES ARE OPERATIONAL, SEDIMENTATION CONTROL MEAS | AN SIX MONTHS. TI T FINAL GRADE. FII SITE HAVE BEEN MANENT STRUCTURE ANENT VEGETATION E OF RIP RAP, GAB VEGETATION SHALL VEGETATION SHALL VEGETATION APPR ERAGE BY PERENNI, TO EACH PHASE O AGRICULTURAL OF ABILIZING THE DIST S STANDARD IS SA INTERIM STABILIZA |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | PLANNING CONSIDERATIONS 1. USE CONVENTIONAL PLAN 2. WHEN MIXED PLANTINGS SHALL BE USED. 3. NO-TILL PLANTING IS EFF ANNUAL COVER CROP. 4. BLOCK SOD PROVIDES IM ADJACENT TO CONCRETE STABILIZATION (WITH SOD 5. IRRIGATION SHOULD BE U 6. LOW MAINTENANCE PLAN EROSION CONTROL. 7. MOWING SHOULD NOT BE WILDLIFE PLANTINGS SHOU PLANT LIST. | ARE DONE DURING FECTIVE WHEN PLAN MEDIATE COVER. IT FLUMES AND OTHE DING). ISED WHEN THE SO IS, AS WELL AS NA PERFORMED DURIN |
| | GRADING & SHAPING GRADING AND SHAPING MAY N EQUIPMENT IS TO BE USED. V WHEN CONVENTIONAL SEEDING FEASIBLE AND PRACTICAL SO SEEDBED PREPARATION, SEEDI CONCENTRATIONS OF WATER T SAFE OUTLET. DIVERSIONS AN APPROPRIATE STANDARDS AN LIME AND FERTILIZER APPLICA WHEN HYDRAULIC SEEDING EQ INNOCULANT (IF NEEDED), AND SLURRY. THE INNOCULANT, IF | ERTICAL BANKS SH AND FERTILIZING / THAT EQUIPMENT (ING, MULCHING AND THAT WILL CAUSE E D OTHER TREATMEN D SPECIFICATIONS. <u>TION</u> UIPMENT IS USED, D WOOD CELLULOSE |
| | INTO THE HYDRAULIC SEEDER. KEEP THE INGREDIENTS THORCAREA WITHIN ONE HOUR AFTE FINELY GROUND LIMESTONE WISCOMPLETED OR IN COMBINABE DONE, LIME AND FERTILIZE 1. APPLY BEFORE LAND PREPARATION. 2. MIX WITH THE SOIL USED 3. BROADCAST AFTER STEEF 4. A FERTILIZER PELLET SHATREE SEEDLING. LIME AND FERTILIZER RATES A AGRICULTURAL LIME IS REQUIRE INDICATE OTHERWISE. GRADED | THE SLURRY MIXTO DUGHLY MIXED. THE R BEING PLACED IN LL BE MIXED WITH ATION WITH THE TOI R SHALL BE APPLIE PARATION SO THA TO FILL THE HOLE SURFACES ARE S ALL BE PLACED AT AND ANALYSIS RED AT A RATE OF AREAS REQUIRE LI |
| | MONTHS OF PLANTING PERMAI AGRICULTURAL LIME SHALL BE AGRICULTURE. LIME SPREAD BY CONVENTION IS CALCITIC OR DOLOMITIC LIM THROUGH A 10-MESH SIEVE, NOT LESS THAN 25 PERCENT | : WITHIN THE SPECI AL EQUIPMENT SHA ESTONE GROUND S NOT LESS THAN 50 |
| | <u>SPECIES</u> | BROADCA <u>RATES 1/ –</u> PER ACRE |
| | FESCUE, TALL (FESTUCA ARUNDINACEA) ALONE | 50 LBS. 1. |
| | BERMUDA, COMMON (CYNODON DACTYLON) ALONE WITH OTHER PERENNIALS | 10 LBS 6 LBS |
| | BERMUDA, COMMON (CYNODON DACTYLON) UNHULLED SEED WITH TEMPORARY COVER WITH OTHER PERENNIALS | 10 LBS 6 LBS |
| | BERMUDA SPRIGS (CYNODON DACTYLON) COASTAL, COMMON, MIDLAND, OR TIFT 44 COASTAL, COMMON, OR TIFT 44 TIFT 78 | 40 CU. FT C OR SOD PLUGS 3 |
| | CENTIPEDE (ERMOCHLOA OPHIUROIDES) | BLOCK SOD |
| | LOVECRASS WEEPING | I |

DISTURBED AREA STABILIZATION w/ PERMANENT VEGETATION Ds-.

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION. INSTRUCTIONS

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED FINAL STABILIZATION MEANS THAT ALL SOIL COMPLETED, AND THAT FOR UNPAVED AREAS AND RES, AT LEAST 70% OF THE SOIL SURFACE IS OR EQUIVALENT PERMANENT STABILIZATION BIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE _ CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL ROPRIATE FOR THE REGION, SUCH THAT WITHIN THE IAL VEGETATION SHALL BE ACHIEVED. OF CONSTRUCTION. FOR LINEAR CONSTRUCTION OR SILVICULTURAL PURPOSES, FINAL STABILIZATION STURBED LAND FOR ITS AGRICULTURAL OR SATISFIED AND PERMANENT CONTROL MEASURES AND ATION MEASURES AND TEMPORARY EROSION AND BE REMOVED.

HERE POSSIBLE. MARGINAL PLANTING PERIODS, COMPANION CROPS

- ANTING IS DONE FOLLOWING A SUMMER OR WINTER
- I IS ESPECIALLY EFFECTIVE IN CONTROLLING EROSION HER STRUCTURES. REFER TO Ds-4 DISTURBED AREA
- OIL IS DRY OR WHEN SUMMER PLANTINGS ARE DONE. NATIVES, SHOULD BE USED TO ENSURE LONG LASTING
- ING THE QUAIL NESTING SEASON (MAY TO SEPT.) IN CRITICAL AREA PLANTINGS. SEE MANUAL FOR

WHERE HYDRAULIC SEEDING AND FERTILIZING HALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT. ARE TO BE DONE, GRADE AND SHAPE WHERE CAN BE USED SAFELY AND EFFICIENTLY DURING D MAINTENANCE OF THE VEGETATION. EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A ENT PRACTICES SHALL CONFORM WITH THE

THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, E OR WOOD PULP FIBER MULCH AND APPLIED IN A E MIXED WITH THE SEED PRIOR TO BEING PLACED TURE WILL BE AGITATED DURING APPLICATION TO E MIXTURE WILL BE SPREAD UNIFORMLY OVER THE IN THE HYDROSEEDER.

- WATER AND APPLIED IMMEDIATELY AFTER MULCHING OP DRESSING. WHEN CONVENTIONAL PLANTING IS TO IED UNIFORMLY IN ONE OF THE FOLLOWING WAYS. AT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED
- ES, DISTRIBUTE IN FURROWS. SCARIFIED, PITTED OR TRENCHED. FROOT DEPTH IN THE CLOSING HOLE BESIDE EACH

F ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX /EGETATION, ADDITIONAL LIME IS NOT REQUIRED. CIFICATIONS OF THE GEORGIA DEPARTMENT OF

ALL BE "GROUND LIMESTONE." GROUND LIMESTONE SO THAT 90% OF THE MATERIAL WILL PASS 50% WILL PASS THROUGH A 50-MESH SIEVE AND JGH A 100-MESH SIEVE.

LIME AND FERTILIZER RATES AND ANALYSIS CONT AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND

98% OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70% WILL PASS THROUGH A 100-MESH SIEVE.

ATLANTIC COAST FLATWOODS MLRA'S. (SEE MANUAL). AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED. INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-5.1.

PLANT SELECTION

CONSERVATION SERVICE BEFORE THEY ARE USED. PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, METHOD OF PLANTING; AND THE NEEDS AND DESIRES OF THE LAND USER. SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA, TALL FESCUE AND WEEPING LOVEGRASS. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET WEEPING LOVEGRASS WITH SERICEA LESPEDEZA (SCARIFIED) AND TALL FESCUE WITH SERICEA LESPEDEZA (UNSCARIFIED).

PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID-SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENTS AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.

<u>SEED_QUALITY</u>

THE TERM "PURE LIVE SEED" IS USED TO EXPRESS THE QUALITY OF SEED AND IS NOT SHOWN ON THE LABEL. PURE LIVE SEED, PLS, IS EXPRESSED AS A PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE. INFORMATION ON PERCENT GERMINATION AND PURITY CAN BE FOUND ON SEED TAGS. PLS IS DETERMINED BY MULTIPLYING THE PERCENT OF PURE SEED WITH THE PERCENT OF GERMINATION; I.E., PLS = % GERMINATION x % PURITY

THE PERCENT OF PLS HELPS YOU DETERMINE THE AMOUNT OF SEED YOU NEED. FOR EXAMPLE IF THE SEEDING RATE IS 10 POUNDS PLS AND THE BULK SEED IS 56% PLS, THE BULK SEEDING RATE IS: <u>10 LBS. OF PLS / ACRE</u> = 17.9 LBS / ACRE

56% PLS YOU WOULD NEED TO PLANT 17.9 LBS/ACRE TO PROVIDE 10 LBS/ACRE OF PURE LIVE SEED.

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS:

- ALLEVIATE COMPACTION: INCORPORATE LIME AND FERTILIZER: SMOOTH AND FIRM THE SOI ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD BE DONE ON THE CONTOUR, WHERE FEASIBLE. 4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 IN. APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- HOLES, OPENING FURROWS, OR DIBBLE PLANTING. 2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS
- WITHOUT CROWDING. 3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

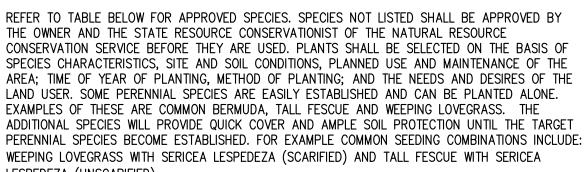
ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. THE INNOCULANT SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER. A MIXING MEDIUM RECOMMENDED BY THE MANUFACTURER SHALL BE USED TO BOND THE INNOCULANT TO THE SEED. FOR CONVENTIONAL SEEDING, USE TWICE THE AMOUNT OF INNOCULANT RECOMMENDED BY THE MANUFACTURER. FOR HYDRAULIC SEEDING, FOUR TIMES THE AMOUNT OF INNOCULANT RECOMMENDED BY THE MANUFACTURER SHALL BE USED. ALL INOCULATED SEED SHALL BE PROTECTED FROM THE SUN AND HIGH TEMPERATURES AND SHALL BE PLANTED THE SAME DAY INOCULATED. NO INOCULATED SEED SHALL REMAIN IN THE HYDROSEEDER LONGER THAN ONE HOUR.

| | | | PLAN | is, pl <i>i</i> | AN IIN | IG RA | AIES, | , AN | D PL | AN I II | NGĽ | AIES | Ś | | | |
|------------------------------------------------|----------------------------|-----------------------------------------|----------------------------|-----------------|--------|----------------|-------|----------------------------|-------------------------------------------|----------------------|----------------------|--------------|------------|--------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>SPECIES</u> | | DCAST <u>– PLS 2/</u> PER 1000 | RESOURCE <u>AREA 3/</u> | • | olid | LINE: NDIC, | s ini | <u>PLA</u> DICA PERI | r <u>es e</u> Ntinc Te oi Missie | <u>g da</u> Ptimi | . <u>tes</u> Um c | DATE: MAR | 5, D(| DTTE L DA | TES.) |) |
| | | sq. ft. | | J | F | М | A | М | J | L | A | S | 0 | N | D | |
| FESCUE, TALL (FESTUCA ARUNDINACEA) ALONE | 50 LBS. | 1.1 LB. | M-L | | _ | | - | | | | | | <u>-</u> . | | | 227,000 SEED PER POUND. US ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. AP TOPDRESSING IN SPRING FOLLO FALL PLANTINGS. NOT FOR HEA USE AREAS OR ATHLETIC FIELD |
| BERMUDA, COMMON (CYNODON DACTYLON) | | | P C | | | | | | | | | | | | | 1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING A SOD FORMING. FULL SUN. GOOD |
| ALONE | 10 LBS | 0.2 LB | | | | | | | | | | | | | | FOR ATHLETIC FIELDS. |
| WITH OTHER PERENNIALS | 6 LBS | 0.1 LB | | | | | | | | | | | | | | |
| BERMUDA, COMMON (CYNODON DACTYLON) | | | P C | | | | | | | | | | | | | |
| UNHULLED SEED | | | | | - | | | | | | | | | <u> </u> | | PLANT WITH WINTER ANNUALS. |
| WITH TEMPORARY COVER | 10 LBS | 0.2 LB | | | | | | | | | | | | | | PLANT WITH TALL FESCUE. |
| WITH OTHER PERENNIALS | 6 LBS | 0.1 LB | | | | | | | | | | | | | | |
| BERMUDA SPRIGS (CYNODON DACTYLON) | 40 CU. FT O SOD PLUG | | M-L | | | | | | _ | | | | | | | A CUBIC FOOT CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 CUBI |
| COASTAL, COMMON, MIDLAND, OR TIFT 44 | | | | | | | | | | | | | | | | FEET OR APPROXIMATELY 800 SPRIGS. |
| COASTAL, COMMON, OR TIFT 44 | | | P C | | | _ | | | | • | | | | | | SAME AS ABOVE |
| TIFT 78 | | | С | | . | - | | | | | | | | | | SOUTHERN COASTAL PLAIN ONL |
| CENTIPEDE (ERMOCHLOA OPHIUROIDES) | BLOCK S | SOD ONLY | P C | | | | | | | | | | | | | DROUGHT TOLERANT. FULL SUN PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN |
| | | | | | | | | | | | | | - | | | CONCENTRATED FLOW AREAS. |
| | | | | J | F | м | A | м | J | J | A | S | 0 | N | D | IRRIGATION IS NEEDED UNTIL FU ESTABLISHED. DO NOT PLANT N PASTURES. WINTERHARDY AS FA NORTH AS ATHENS AND ATLANT |
| LOVEGRASS, WEEPING (ERAGROSTIS CURVULA) | | | M-L | | | . <u> </u> | | | | | | | | | | 1,500,000 SEED PER POUND. QU COVER. DROUGHT TOLERANT. GR |
| ALONE | 4 LBS | 0.1 LB | P | ŀ | - | | | - | | | | | | | | WELL WITH SERICEA LESPEDEZA |
| WITH OTHER PERENNIALS | 2 LBS | 0.05 LB | . | | | | | | | | | | | | | ROADBANKS |
| | | | | | | | | | | | | | | | | |

LIMESTONE." FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT

<u>PLANTING</u>

IT IS DESIRABLE TO USE DOLOMITIC LIMESTONE IN THE SAND HILLS, SOUTHERN COASTAL PLAIN AND



1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 IN.

1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING



HYDRAULIC SEEDING: MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE. CONVENTIONAL SEEDING: SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER

MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT. NO-TILL SEEDING: NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH. INDIVIDUAL PLANTS: SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR

HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TOPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.

DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONES PER ACRE. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT

SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER THE HYDRAULIC SEEDING. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 4:1 OR STEEPER SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.

PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED

AREAS WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS. EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH

APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS AND OTHER STRUCTURES FROM ASPHALT DISCOLORATION. 2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT. LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. 3 SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO TD - TACKIFIERS AND BINDERS. 4. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE, 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S

BEDDING MATERIAL: MULCH USED AS A BEDDING MATERIAL TO CONSERVE MOISTURE AND CONTROL WEEDS IN NURSERIES, ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS.

| MATERIAL | <u>DEPTH</u> |
|--------------|--------------|
| GRAIN STRAW | 4" TO 6" |
| GRASS HAY | 4" TO 6" |
| PINE NEEDLES | 3"TO 5" |
| WOOD WASTE | 4" TO 6" |

SPECIFICATIONS.

IRRIGATION: IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

TOPDRESSING: WILL BE APPLIED ON ALL TEMPORARY AND PERMANENT (PERENNIAL) SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. RECOMMENDED RATES OF APPLICATION ARE LISTED IN TABLE 6-5.1

SECOND YEAR AND MAINTENANCE FERTILIZATION: SECOND YEAR FERTILIZER RATES AND MAINTENANCE FERTILIZER RATES ARE LISTED IN TABLE 6-5.1

LIME MAINTENANCE APPLICATION: APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS OR AS INDICATED BY SOIL TESTS. SOIL TESTS CAN BE CONDUCTED TO DETERMINE MORE ACCURATE REQUIREMENTS IF DESIRED.

USE AND MANAGEMENT: MOW SERICEA LESPEDEZA ONLY AFTER FROST TO ENSURE THAT THE SEEDS ARE MATURE. MOW BETWEEN NOVEMBER AND MARCH. BERMUDAGRASS, BAHIAGRASS AND TALL FESCUE MAY BE MOWED AS DESIRED. MAINTAIN AT LEAST 6 INCHES OF TOP GROWTH UNDER ANY USE AND MANAGEMENT. MODERATE USE OF TOP GROWTH IS BENEFICIAL AFTER ESTABLISHMENT. EXCLUDE TRAFFIC UNTIL THE PLANTS ARE WELL ESTABLISHED. BECAUSE OF THE QUAIL NESTING SEASON, MOWING SHOULD NOT TAKE PLACE BETWEEN MAY AND SEPTEMBER.

| | | | ANALYSIS OR EQUIVALENT N-P-K | | N TOP DRESSING RATE |
|----|------------------------------------------|--------------------------------|------------------------------------|--------------------------------------------------------|------------------------------------------------------------|
| 1. | COOL SEASON GRASSES | FIRST SECOND MAINTENANCE | 6-12-12 6-12-12 10-10-10 | 1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC. | 50-100 LBS./AC. 1/ 2/ 30 |
| 2. | COOL SEASON GRASSES AND LEGUMES | FIRST SECOND MAINTENANCE | 6-12-12 0-10-10 0-10-10 | 1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC. | 0–50 LBS./AC. 1/ |
| 3. | GROUND COVERS | FIRST SECOND MAINTENANCE | 10-10-10 10-10-10 10-10-10 | 1300 LBS./AC. 3/ 1300 LBS./AC. 3/ 1100 LBS./AC. | |
| 4. | PINE SEEDLINGS | FIRST | 20-10-5 | ONE 21-GRAM PELLET PER SEEDLING PLACED | |
| 5. | SHRUB LESPEDEZA | FIRST MAINTENANCE | 0-10-10 0-10-10 | IN THE CLOSING HOLE 700 LBS./AC. 700 LBS./AC. 4/ | |
| 6. | TEMPORARY COVER CROPS SEEDED ALONE | FIRST | 10–10–10 | 500 LBS./AC. | 30 LBS./AC. 5/ |
| 7. | WARM SEASON GRASSES | FIRST SECOND MAINTENANCE | 6-12-12 6-12-12 10-10-10 | 1500 LBS./AC. 800 LBS./AC. 400 LBS./AC. | 50–100 LBS./AC. 2/ 6/ 50–100 LBS./AC. 2/ 30 LBS./AC. |
| 8. | WARM SEASON GRASSES AND LEGUMES | FIRST SECOND MAINTENANCE | 6-12-12 0-10-10 0-10-10 | 1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC. | 50 LBS./AC. 6/ |

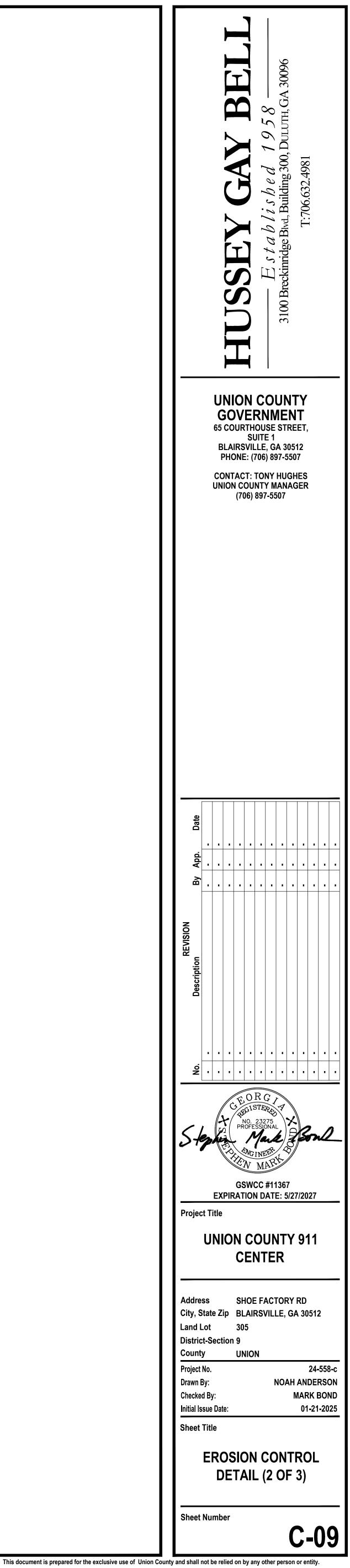
APPLY IN SPRING FOLLOWING SEEDING. APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED. APPLY IN 3 SPLIT APPLICATIONS.

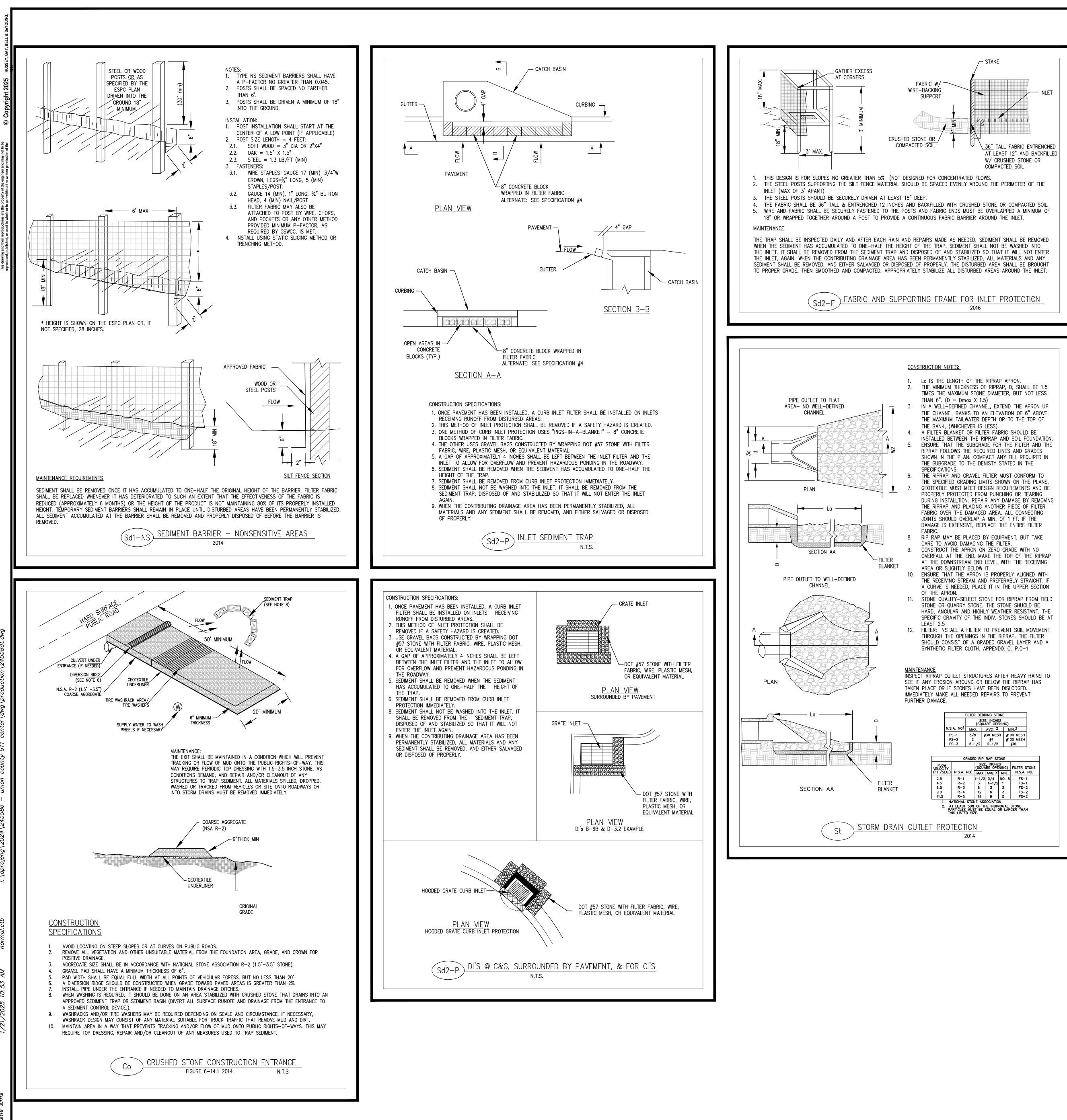
APPLY WHEN PLANTS ARE PRUNED.

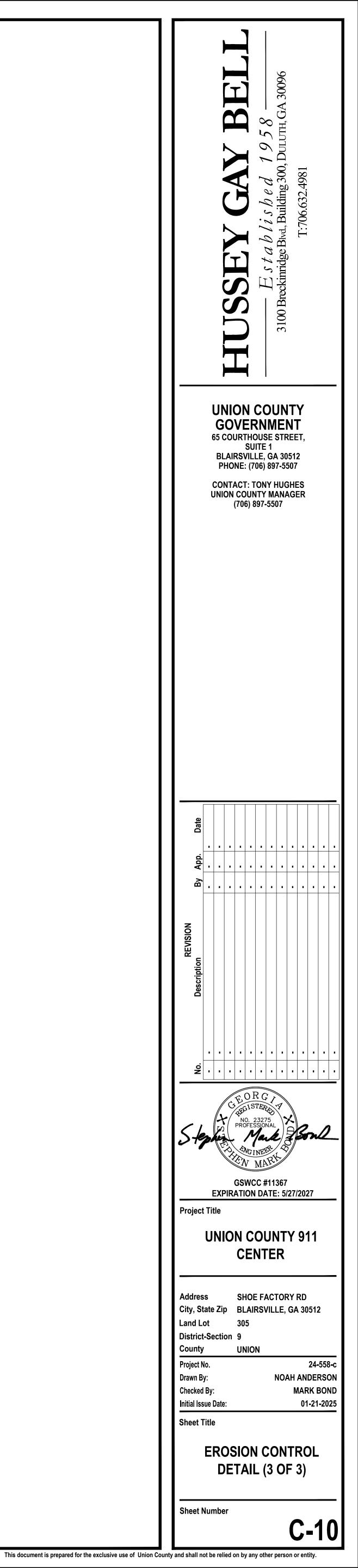
APPLY TO GRASS SPECIES ONLY. 6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

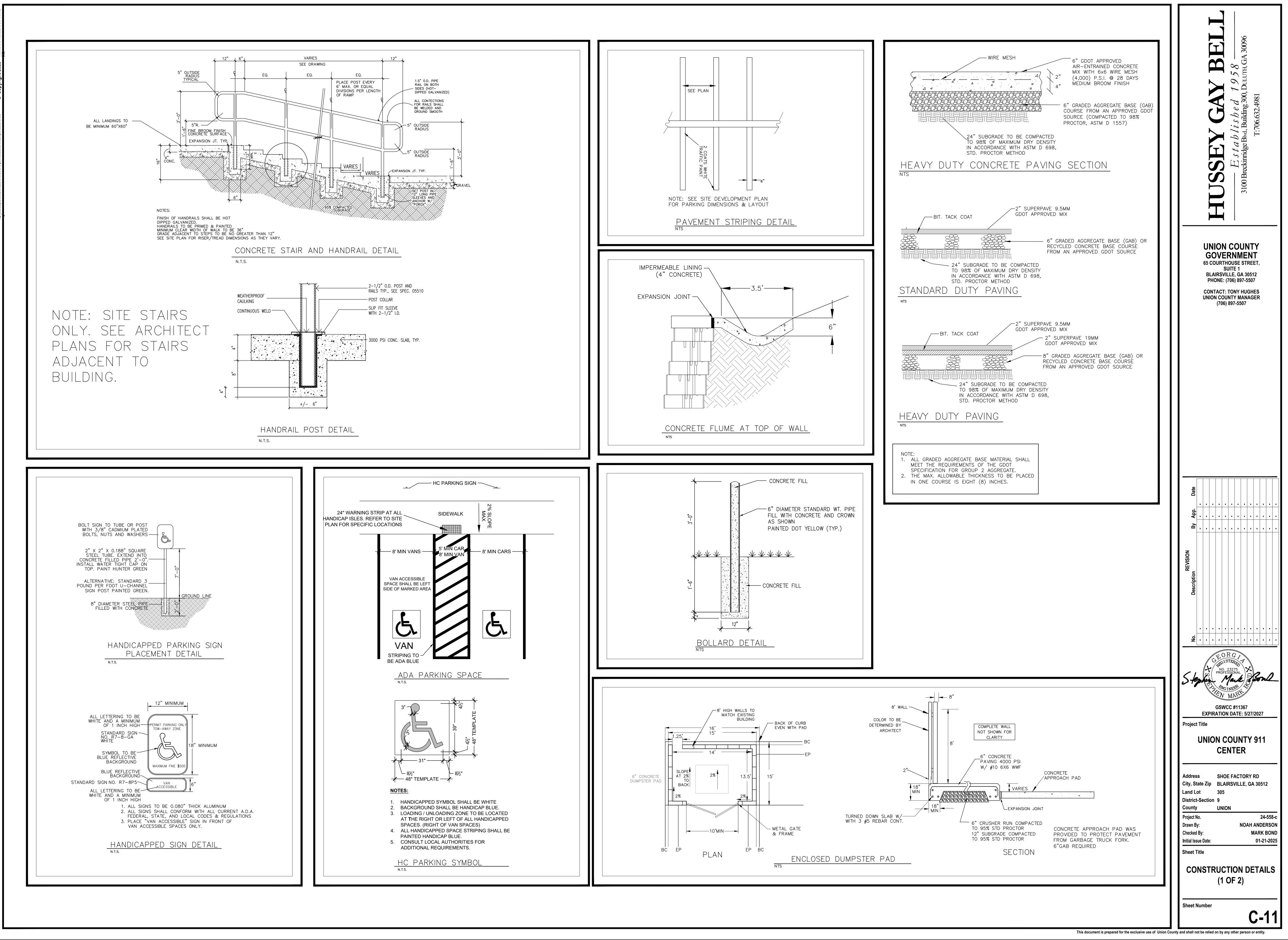
| Pt | ECIFICATIONS |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IULO | HING WITHOUT SEEDING |
| | STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN SION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER. |
| <u>site</u> | PREPARATION |
| 1. 2. 3. | GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES. |
| MUL | CHING MATERIALS |
| SELE 1. | CT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED: DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION. |
| 2. | WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS. |
| 3. | POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED. |
| <u>APPI</u> | YING MULCH |
| WHEI 1. 2. 3. | N MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20–30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES. APPLY POLYETHYLENE FILM ON EXPOSED AREAS. |
| ANC | HORING MULCH |
| 1. | STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. |
| | STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TACKIFIERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. |
| 2. 3. | NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY. |
| | |
| | Ds-1 DISTURBED AREA STABILIZATION W/MULCHING ONLY |

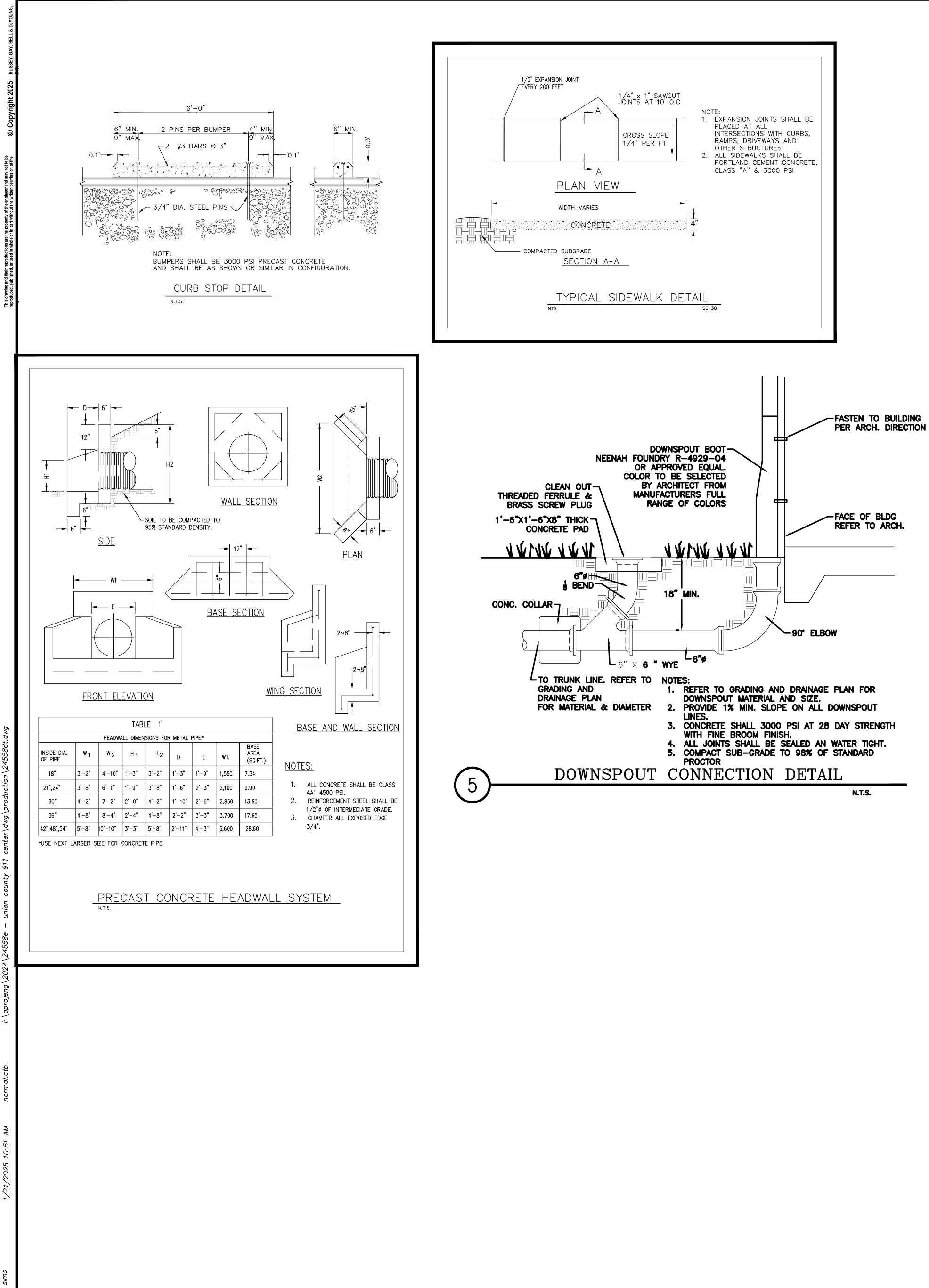
| | DEFINITION |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONTROLLING SURFACE AND AIR | movement of dust on construction sites, roads, and demolition sites. PURPOSE |
| | R MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, ANIMALS OR PLANT LIFE. |
| | CONDITIONS |
| THIS PRACTICE IS APPLICABLE TO DAMAGE MAY OCCUR WITHOUT | O AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE TREATMENT. |
| | METHODS AND MATERIALS |
| TEMPORARY METHODS: | |
| INSTEAD OF ASPHALT TO BIND N | DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED MULCH MATERIAL. REFER TO STANDARD Tac—TACKIFIERS. RESINS SUCH AS CURASOL OR CCORDING TO MANUFACTURER'S RECOMMENDATIONS. |
| VEGETATIVE COVER SEE STANDA | RD Ds2 – DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING). |
| <u>SPRAY-ON ADHESIVES</u> THESE AF AREAS. REFER TO STANDARD T | RE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE ac. |
| SHOULD BE USED BEFORE WIND | ENED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS RT, SPRING TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH ECT. |
| IRRIGATION THIS IS GENERALLY D WET. REPEAT AS NEEDED. | DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS |
| BE USED TO CONTROL AIR CURR | , SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN RENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION. |
| CALCIUM CHLORIDE APPLY AT A | RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT. |
| PERMANENT METHODS: | |
| | ANDARD Ds3 — DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) EXISTING AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. |
| TOPSOILING THIS ENTAILS COVER | ING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TP-TOPSOILING. |
| STONE COVER SURFACE WITH CR | RUSHED STONE OR COARSE GRAVEL. SEE STANDARD Cr-CONSTRUCTION ROAD STABILIZATION. |
| | |
| | DUST CONTROL ON DISTURBED AREAS |

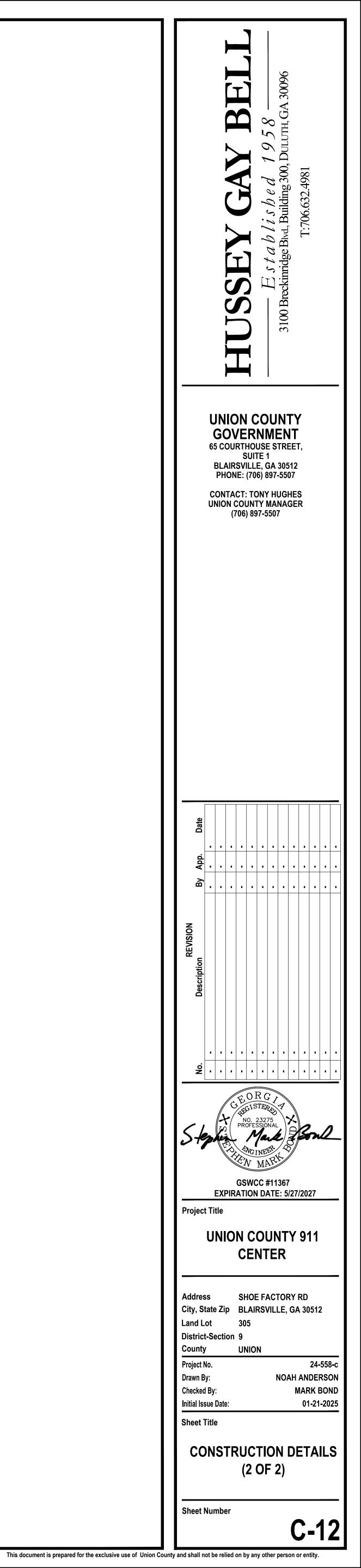




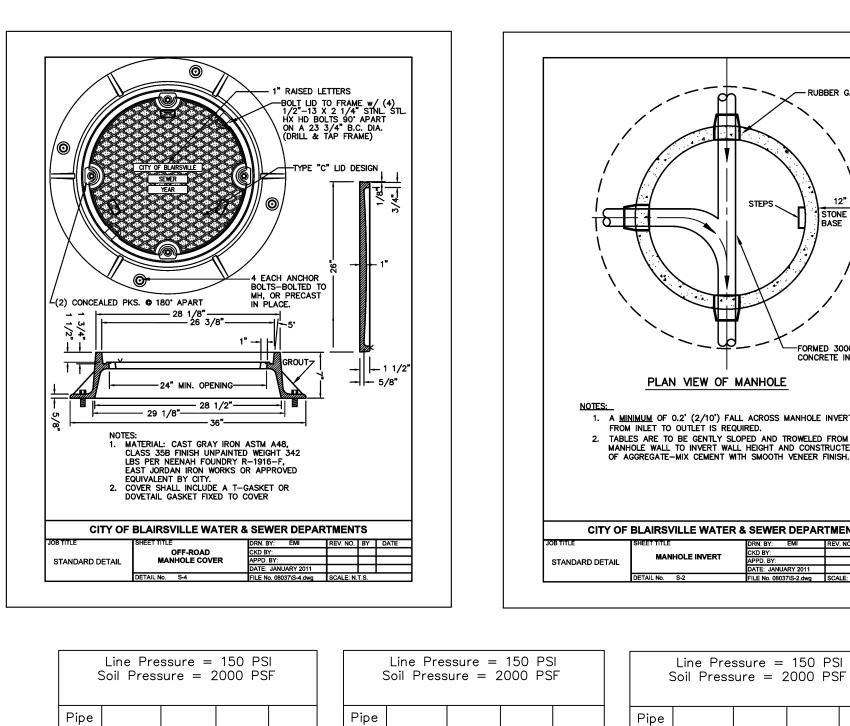


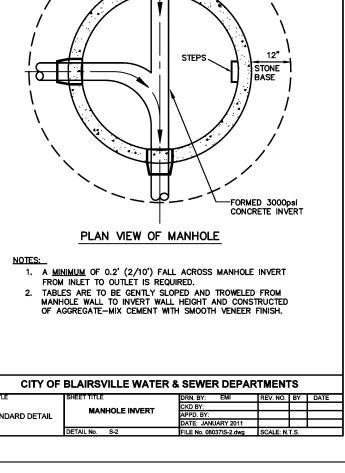








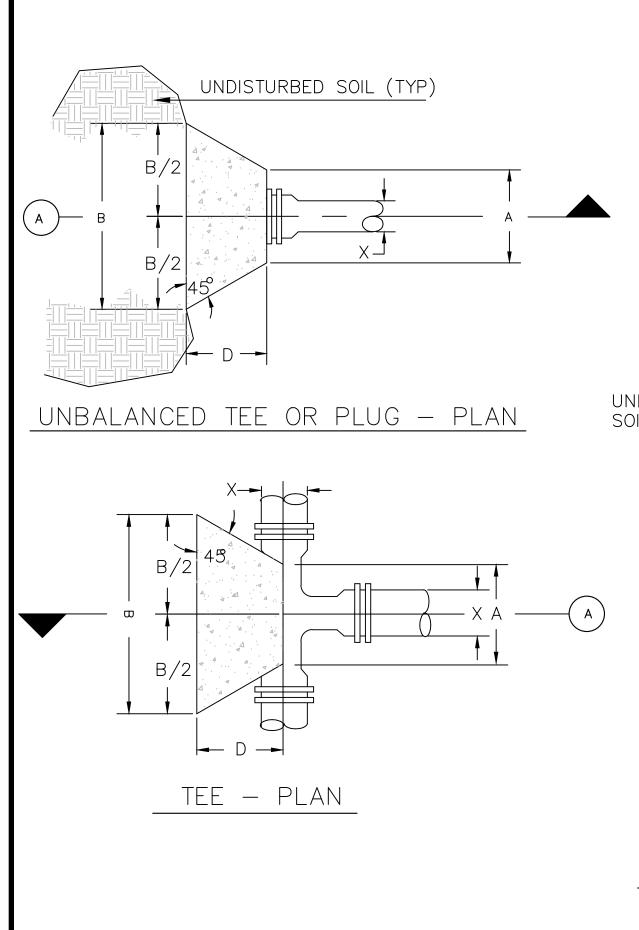


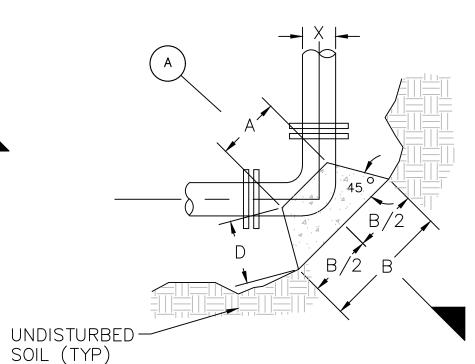


Soil Pressure = 2000 PSF Size | Α B Size В Size в 11 1/4 DEGREE BEND 90 DEGREE BEND Unbalanced Tee & Plug 2'-10" 6'-0" 6'-0" 2'-9" 2'-7" 7'-0" 7'-0" 4'-6" 1'-9'' | 2'-9'' | 2'-9'' | 1'-0''2'-5" 5'-0" 5'-0" 2'-3' 2'-1" | 6'-0" | 6'-0" | 3'-9" 1'-6" | 2'-3"| 2'-3"| 18" 2'-3" | 4'-6" | 4'-6" | 2'-0" 18" 1'-11" | 5'-6" | 5'-6" | 3'-6" 1'-4" | 2'-0" | 2'-0" 1'-0" 2'-1" | 4'-0" | 4'-0" | 1'-9" 1'-9" | 5'-0" | 5'-0" | 3'-3" 1'-3" | 1'-9" | 1'-9" | 1'-0" | 14" | 1'-7" | 4'-0" | 4'-0" | 2'-6" 1'-11" 3'-6" 3'-6" 1'-6" 14" $1'-2" \mid 1'-6" \mid 1'-6" \mid 1'-0" \mid$ 1'-4" 3'-6" 3'-6" 2'-3" 1'-8" | 3'-0" | 3'-0" | 1'-3 |'-2" | 1'-6" | 1'-6" | 1'-0" | 12" | 1'-3" | 3'-0" | 3'-0" | 2'-0" 1'-0" 1'-3" 1'-3" 1'-0"10" 1'-6" | 2'-6" | 2'-6" | 1'-0" 1'-4" | 2'-0" 2'-0" | 1'-0' 1'-0" | 2'-6" | 2'-6" | 1'-9" 0'-10" 1'-0" 1'-0" 1'-0" 1'-2" | 1'-6" |1'-6" |1'-0" | 0'-11" | 1'-9" |1'-9" | 1'-6" 6" 0'-9" | 1'-0" | 1'-0" | 1'-0" 1'-0" | 1'-0" |1'-0" |1'-0' 4" 0'-9" 1'-3" 1'-3" 1'-3" 0'-7" | 1'-0" | 1'-0" | 1'-0" 45 DEGREE BEND Tee 22 1/2 DEGREE BEND 24" 2'-6" 6'-0" 6'-0" 3'-6" 24" 2'-4" 5'-6" 5'-0" 3'-9" 24" 2'-0" 3'-6" 2'-6" | 1'-11"| 4'-6" | 4'-0" | 3'-0"| 20" 20" 2'-4" 5'-0" 5'-0" 3'-0" 1'-8" 3'-0" 3'-0" 1'-9" 18" 1'-2" 4'-6" 4'-6" 2'-9" 18" 1'-9" 4'-0" 4'-0" 2'-9" 1'-6" | 2'-9" | 2'-9" | 1'-6" | 16" 1'-6" 4'-0" 4'-0" 2'-6" 16" | 1'-7" | 3'-6" | 3'-6" | 2'-3" 16" 1'-5" 2'-6" 2'-6" 1'-3"
 14"
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 14" 1'-3" | 3'-0" | 3'-0" | 2'-0" | 14" 1'-4" 2'-3" 2'-3" 1'-0"
 12"
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 3'-0"
 2'-0"
 12" | 1'-2" | 2'-0" | 2'-0" | 1'-0" | 12" | 1'-3" | 3'-0" | 2'-6" | 2'-0" | 10" 1'-3" 2'-6" 2'-6" 1'-6" 1'-3" | 2'-6" | 2'-0" | 1'-9" 1'-0" | 1'-9" |1'-9" |1'-0" 1'-0" | 2'-0" | 2'-0" | 1'-6" 8" | 1'-0" | 1'-9" | 1'-3" | 8" 0'-10" 1'-6" 1'-6" 1'-0" 8" 0'-11" 1'-6" 1'-6" 1'-3" 6" 0'-11" 1'-6" 1'-6" 1'-0" 6" 0'-9" 1'-3" 1'-3" 1'-0" 4" 0'-10" 1'-0" 1'-0" 1'-0" 4" | 0'-9" | 1'-0" | 1'-0" | 1'-0" | 4" | 0'-7" | 1'-0" | 1'-0" | 1'-0" | NOTES 1. BLOCKING SHALL BE CLASS "C" CONCRETE ; "SACKCRETE" WILL NOT BE ALLOWED. 2. THE WATER LINE MUST BE LOWERED IN ORDER TO HAVE FIVE FEET (5') OF COVER AT THE BEND, TEE, REDUCER OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED. 3. THE CONTRACTOR HAS THE OPTION TO USE RESTRAINED JOINTS IN LIEU OF OR IN ADDITION TO CONCRETE BLOCKING AS SPECIFIED IN SECTION 02660 OF THE SPECIFICATIONS.

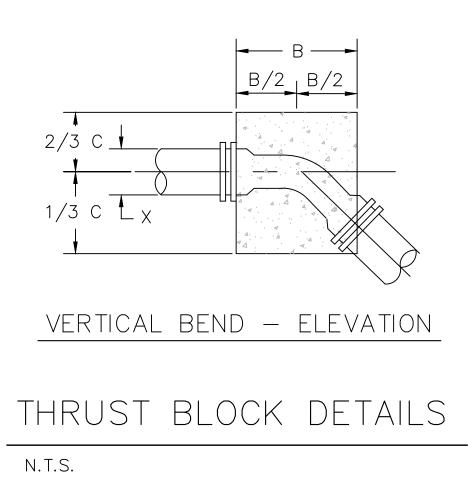
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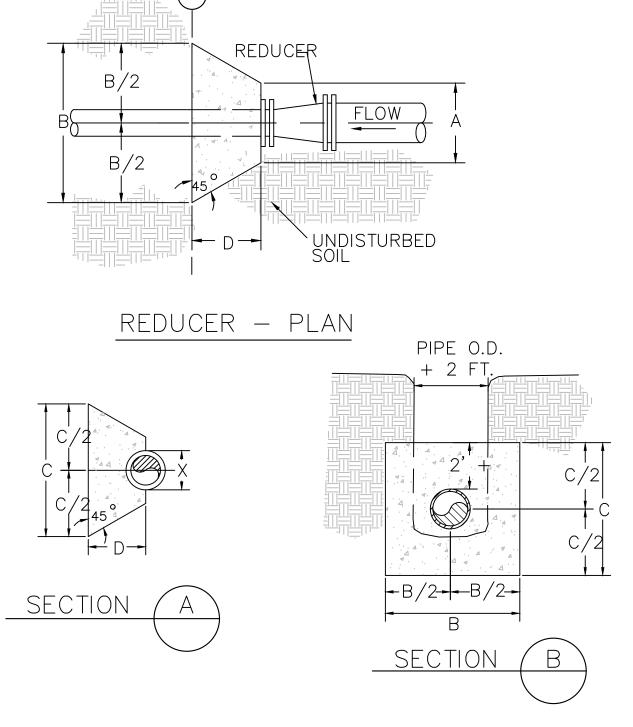
THRUST BLOCK DIMENSIONS

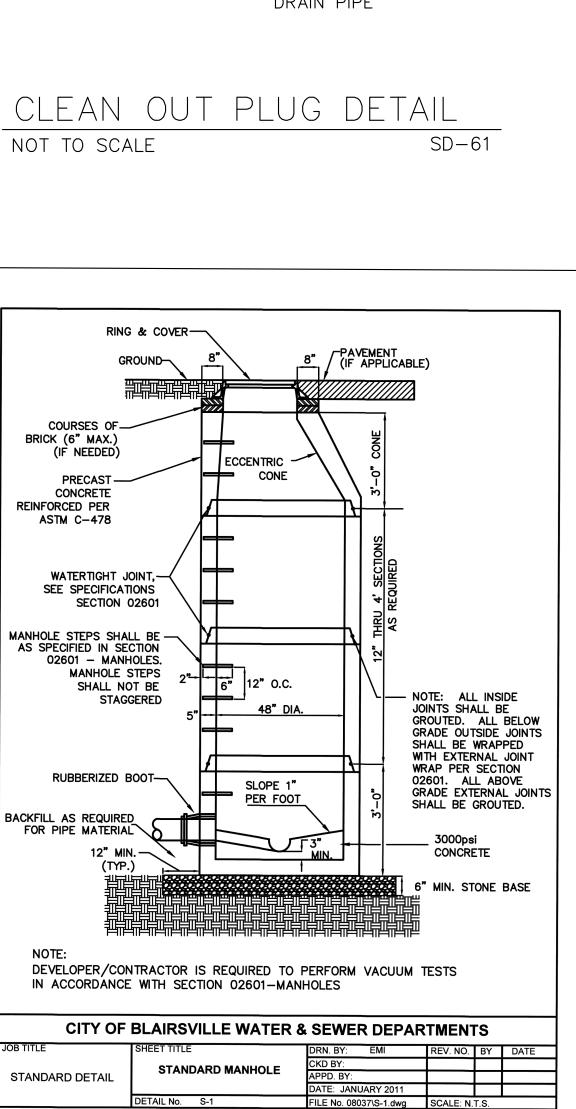


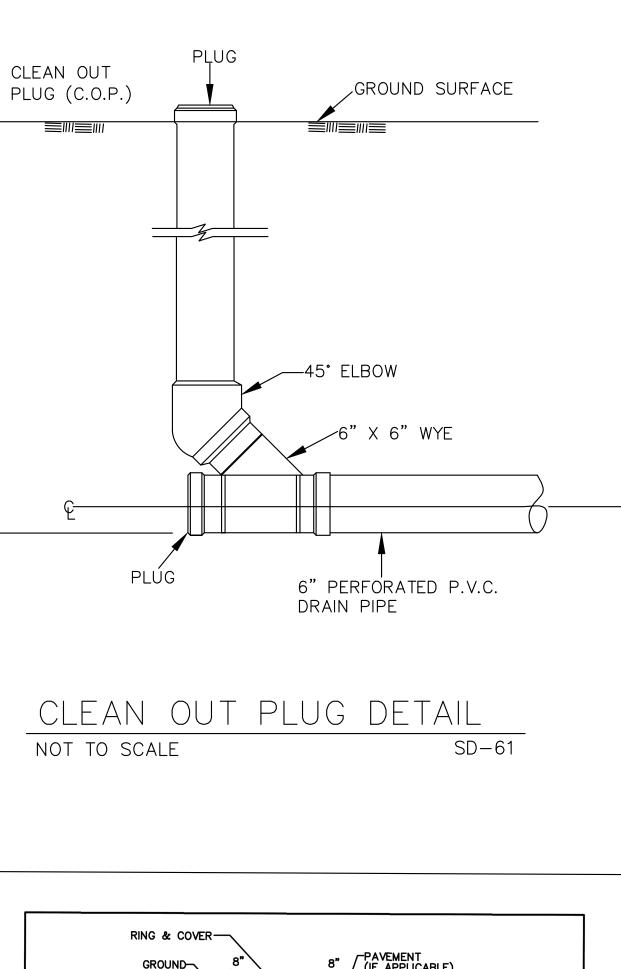




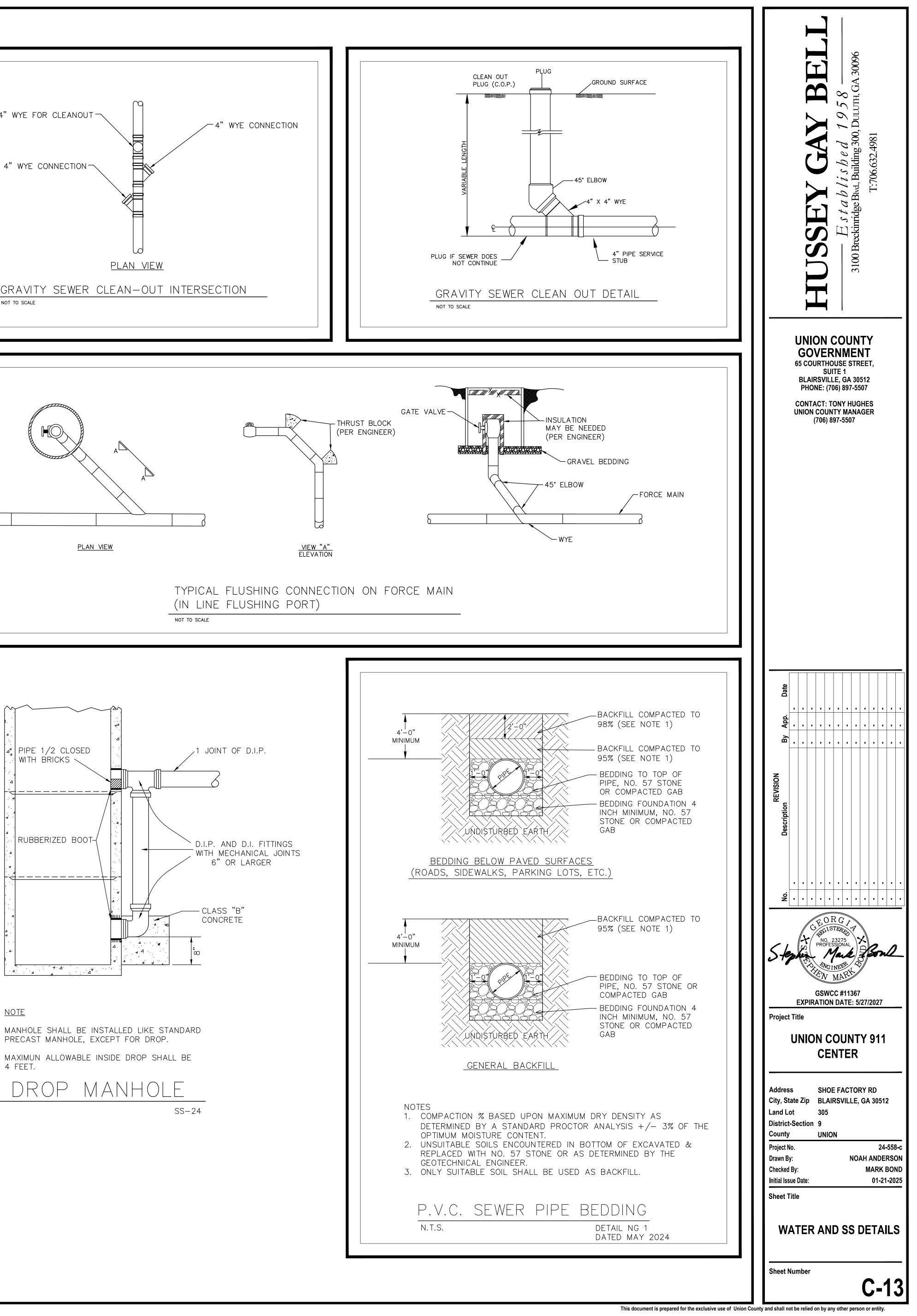


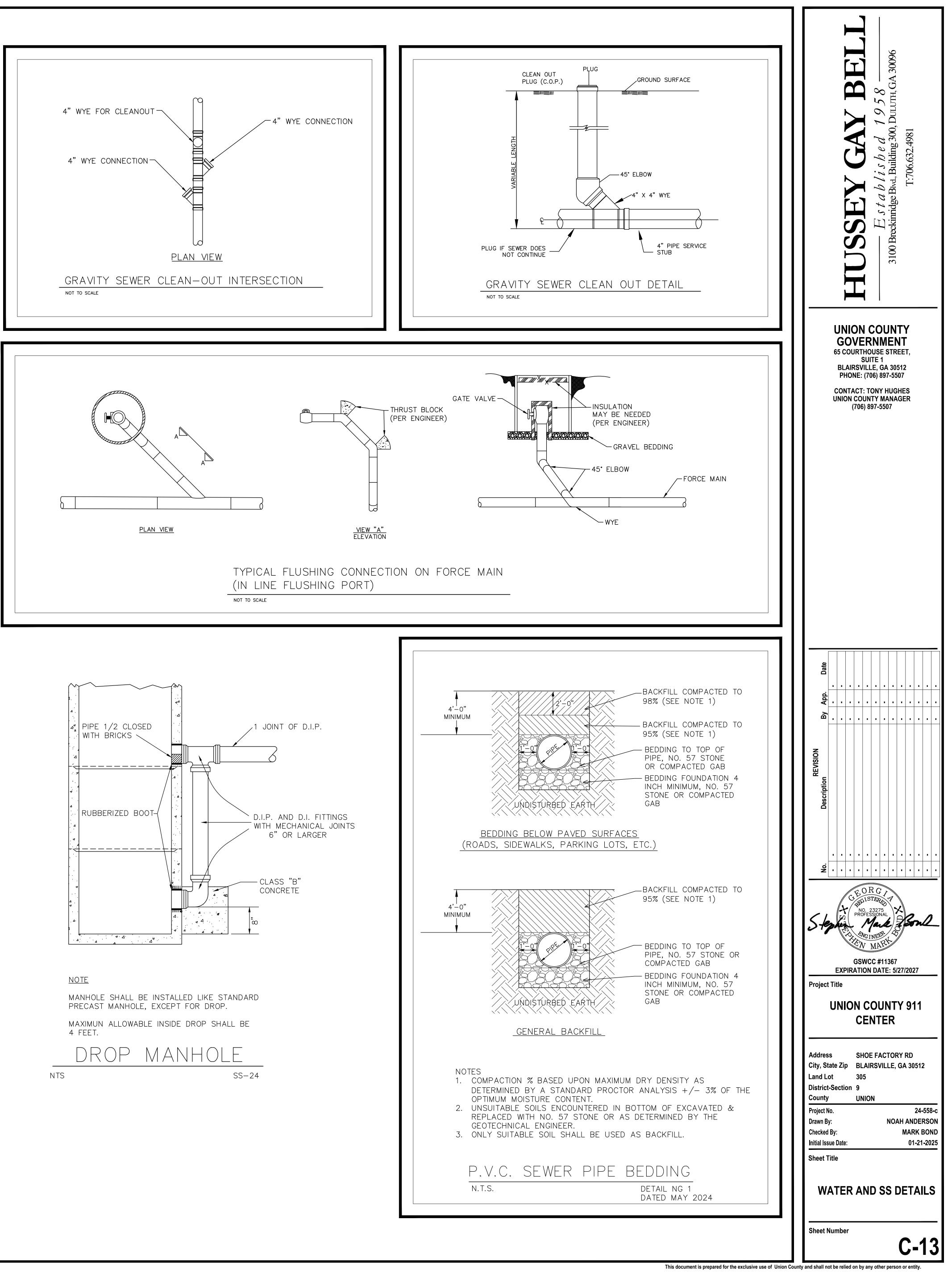


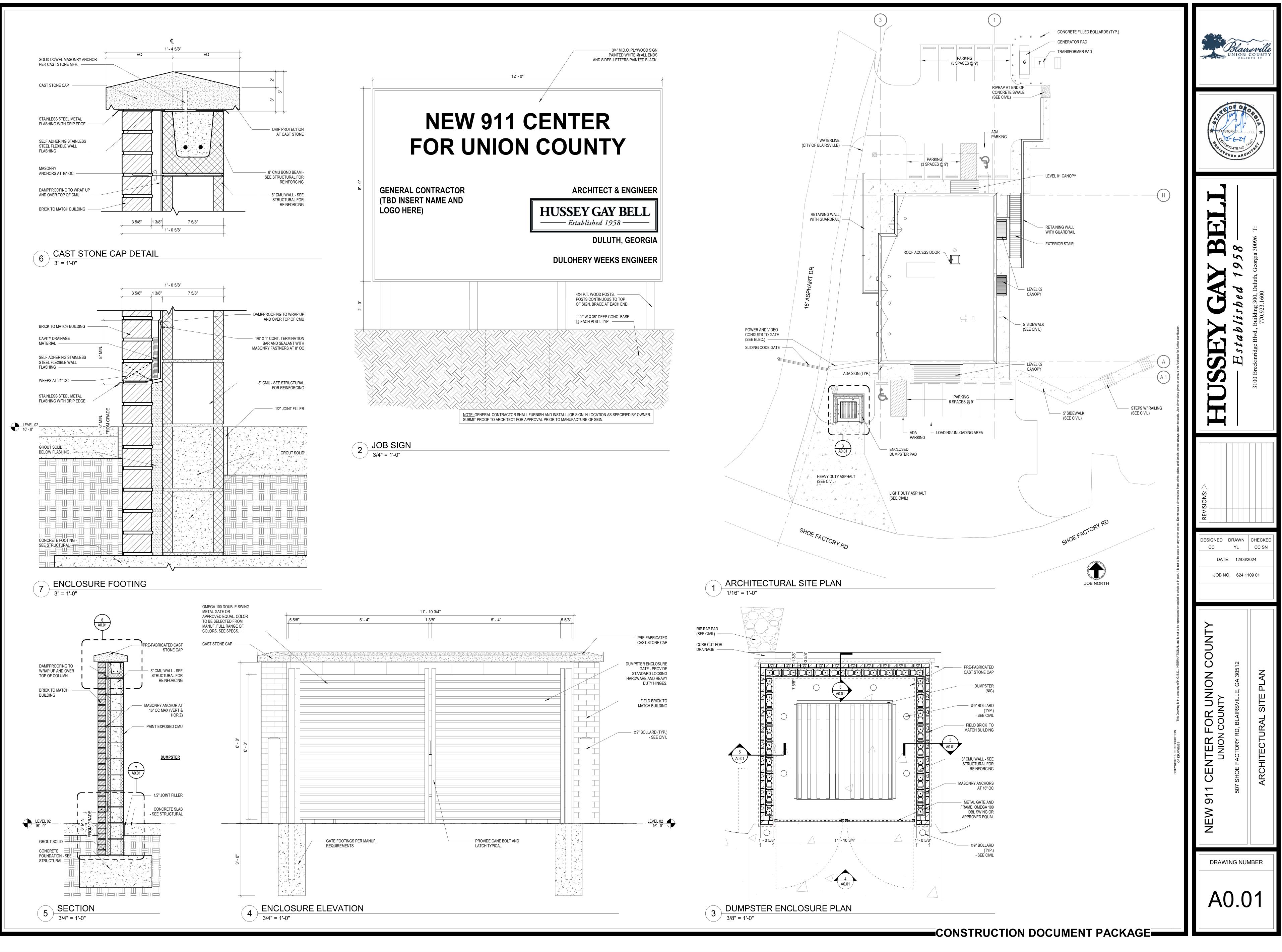




4 FEET.

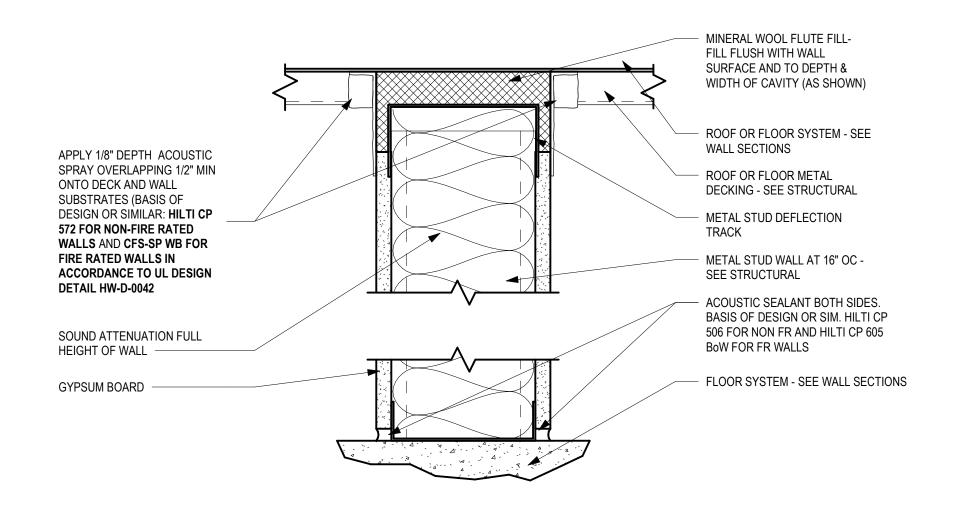




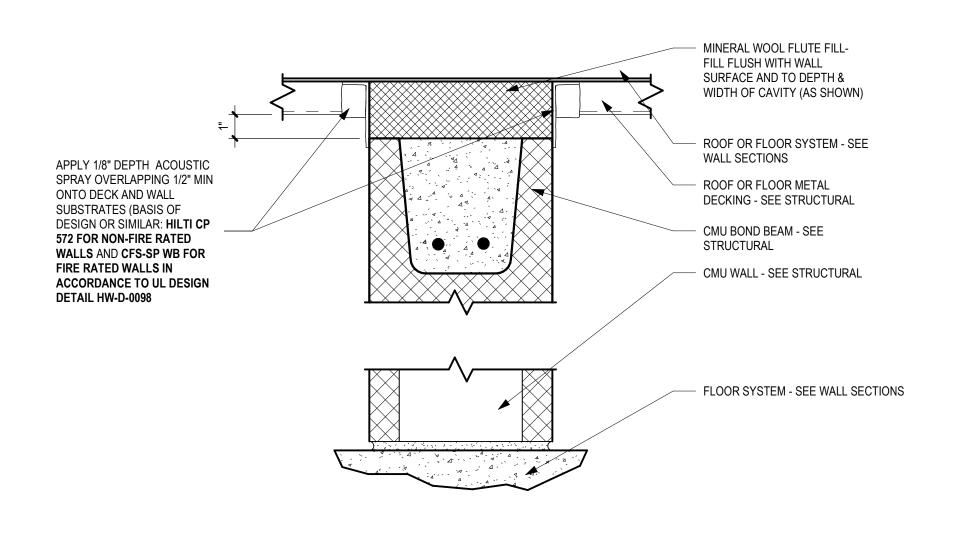


| LEGEND A,B,C = INDICATES REFERENCED WALL TYPE C = CONCRETE MASONRY UNIT c = T0 6" ABOVE SCHEDULED CEILING i = SOUND ATTENUATION ABOVE CEILING AND A M = METAL STUD FRAMING S = SHAFT WALL W = WOOD STUD FRAMING | 3 = 2 1/2" METAL STUD 4 = 3 5/8" METAL STUD | | RAL NOTES: D SPACING FOR WALLS SHALL BE 16" OC MAX | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WALL TYPE MARKER | CC8S | | | |] |
| WALL SECTION | SECURE TOP OF WALL TO STRUCTURE ABOVE AND SEAL SEE DETAIL JAO.21 SEE RCP FOR CEILING TYPE 8" CMU WALL - SEE STRUCTURAL FOR REINFORCING CC8S = 8" CMU SHAFT WALL 2 HOUR RATED- SEE STRUCTURAL | | | | |
| PLAN | | | | | - |
| | CC8S | | | | |
| DESCRIPTION | CONCRETE MASONRY UNIT WALL 2 HOUR FIRE RATED UP TO UNDERSIDE OF DECKING ABOVE (OR SHAFT WALL FROM LOWER LEVEL FLOOR TO UNDERSIDE OF ROOF DECKING) | | | | |
| <u>UL DESIGN #</u> | UL DESIGN #U905 | | | | - |
| WALL TYPE MARKER | AM6 AM6i | BM6 BM6i CM6i | DM6i | EM4c | |
| WALL SECTION | SECURE TOP OF WALL TO STRUCTURE ABOVE AND SEAL ACOUSTICALLY SEE DETAIL 1/A0.21 FLOOR DECK, ROOF DECK OR STRUCTURE, SEE STRUCTURAL SOUND ATTENUATION BATTS FULL HEIGHT OF WALL SEE REFLECTED CEILING DETAIL STUDS AT 16" OC 5/8" GYPSUM BOARD ANG = SAME AS AM6i WITHOUT SOUND ATTENUATION BATTS ANG = 6" METAL STUD WALL EXTENDS TO SLAB COORD W/ STRUCT. BASE & FLOORING AS SCHED. CONC. SLAB, SEE STRUCT DWG'S ACOUSTICAL SEALANT BOTH SIDES - SEE DETAIL 1/A0.21 | SECURE TOP OF WALL TO STRUCTURE ABOVE AND SEAL SEE DETAIL 1/A0.21 FLOOR DECK, ROOF DECK OR STRUCTURE, SEE STRUCTURAL SOUND ATTENUATION BATTS FULL HEIGHT OF WALL SEE REFLECTED CEILING PLAN FOR SCHED. CEILING METAL STUDS AT 16" OC METAL STUDS AT 16" OC S/8" GYPSUM BOARD ANCHOR STUDS TO SLAB COOR'D W/ STRUCT. BASE & FLOORING AS SCHED. CONC. SLAB, SEE STRUCT DWG'S ACOUSTIC SEALANT BOTH SIDES. BASIS OF DESIGN OR SIM. HILTL OF 605 BOW FOR FR WALLS | SECURE TOP OF WALL TO STRUCTURE ABOVE AND SEAL SEE DETAIL 1/A0.21 FLOOR DECK, ROOF DECK OR STRUCTURE, SEE STRUCTURAL SOUND ATTENUATION BATTS FULL HEIGHT OF WALL SEE REFLECTED CEILING PLAN FOR SCHED. CEILING METAL STUDS AT 16" OC 5/8" GYPSUM BOARD' ANCHOR STUDS TO SLAB COORD W/ STRUCT. BASE & FLOORING AS SCHED. CONC. SLAB, SEE STRUCT DWG'S ACOUSTICAL SEALANT - SEE DETAIL 1/A0.21 | EXTEND GYPSUM BOARD min, 6" ABOVE SCHED. CEILING & BRACE PER STRUCTURAL SEE REFLECTED CEILING PLAN FOR SCHED. CEILING METAL STUDS AT 16" OC 5/8" GYPSUM BOARD ANCHOR STUDS TO SLAB COORD W STRUCTURE BASE & FLOORING AS SCHEDULED CONC. SLAB, SEE STRUCT DWG'S ACOUSTICAL SEALANT BOTH SIDES - SEE DETAIL 1/A0.21 | EXTEND GYI min. 6" ABOV CEILING & B STRUCTURA SEE REFLEC PLAN FOR S CEILING METAL STU 5/8" GYPSUM ANCHOR ST COOR'D W S RESILIENT E SEE FINISH CONC. SLAE STRUCT DW ACOUSTICA SEE DETAIL |
| PLAN | AM6, AM6i | BM6, BM6i | DM6i | EM4c | |
| DESCRIPTION | METAL STUD W/ GYPSUM BOARD ON BOTH SIDES, FULL HEIGHT OF WALL SEALED AT FLOOR AND DECK. (SEE PLAN FOR STUD SIZES) NON LOAD BEARING - NOT RATED | METAL STUD W/ FIRE RATED GYPSUM BOARD ON BOTH SIDES, FULL HEIGHT OF WALL. SEALED @ FLOOR AND DECK. UL #465 - NON LOAD BEARING 1 HOUR WALL OR UL #423 2 HOUR (SEE UL FOR ADDITIONAL GYPSUM BOARD REQUIREMENTS) | METAL STUD W/ GYPSUM BOARD ON BOTH SIDES, FULL HEIGHT OF WALL SEALED AT FLOOR AND DECK. (SEE PLAN FOR STUD SIZES) NON LOAD BEARING - NOT RATED | METAL STUD W/ GYPSUM BOARD ON BOTH SIDES WITH ACOUSTIC INSULATION ABOVE (SEE PLAN FOR STUD SIZES) NOT RATED - NON LOAD BEARING | METAL STU ON BOTH SI (SEE PLAN F NOT RATED |
| <u>UL DESIGN #</u> | | UL #465 - NON LOAD BEARING 1 HOUR WALL. UL #423 - LOAD BEARING 2 HOUR WALL. | | | |

| GENERAL | NOTES: |
|---------|--------|

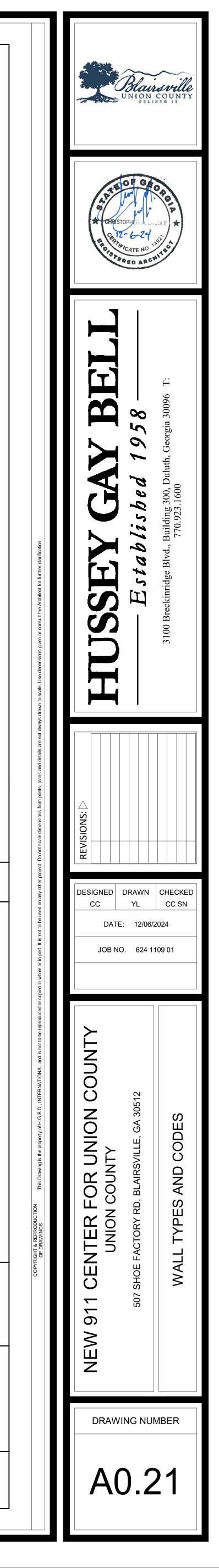


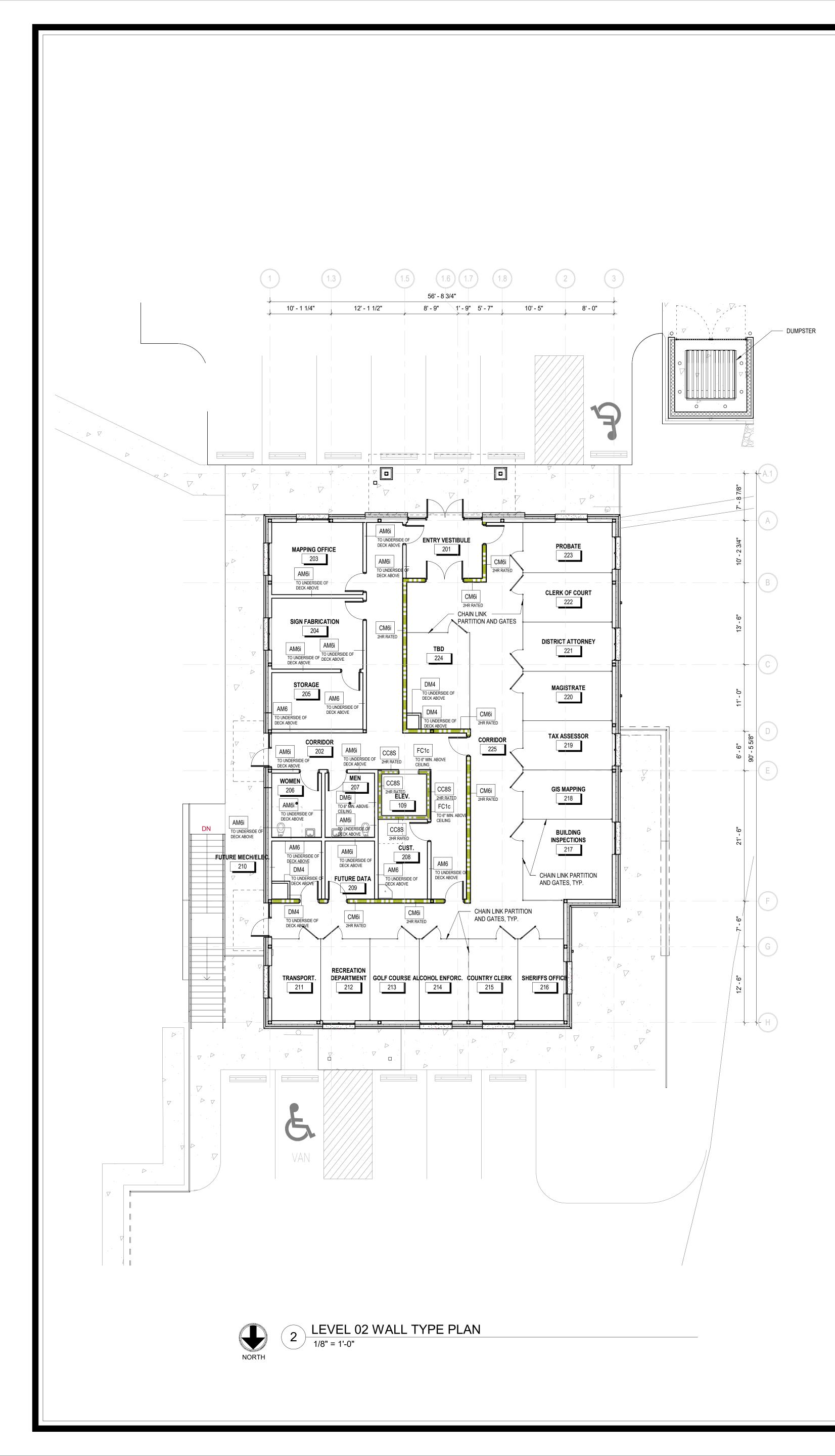
JOINT PROTECTION DETAIL - METAL STUD WALLS 1 JOIN I 3" = 1'-0"

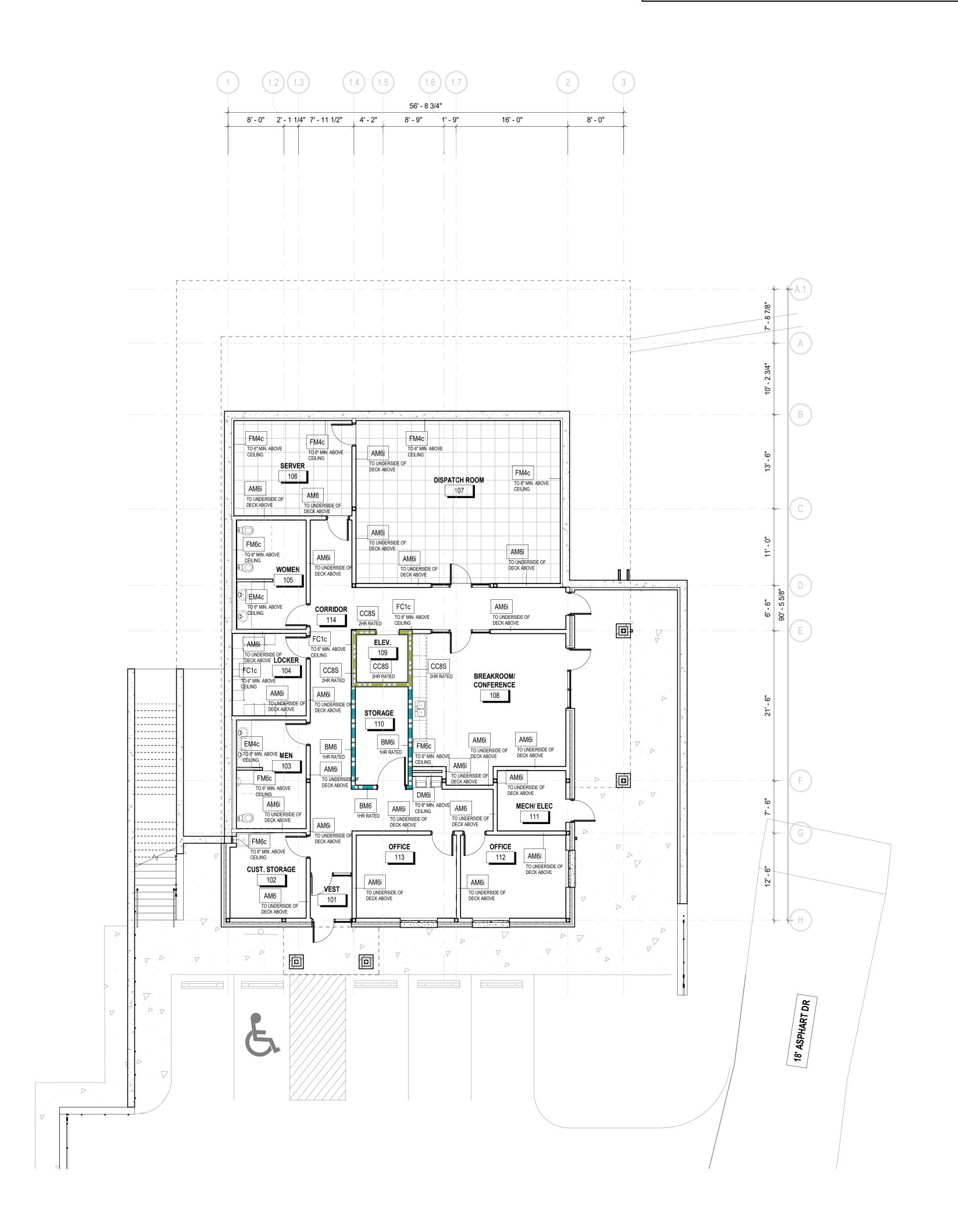


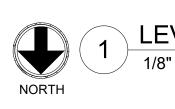
2 JOINT PROTECTION DETAIL - CMU WALLS 3" = 1'-0"

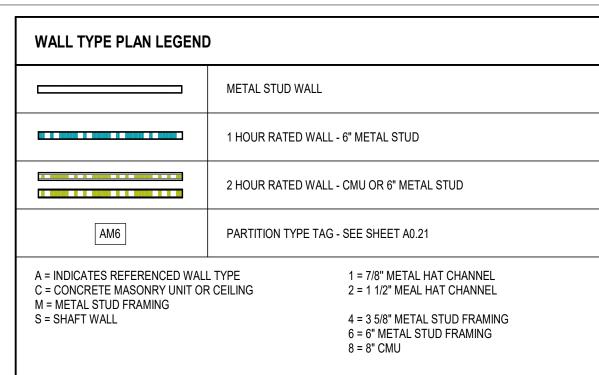
| First BAC First First BAC First BAC First BAC First BAC First BAC First BAC State Bac First Bac First Bac First Bac State Bac First Bac First Bac < | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--|
| VE SOLED NACCE PHD SHEAD BALL CTID CHILING CTID CHILIN | FM4c FM6c | FC1c | |
| TUDS TO SLAB STUD WALL EXTENDS TO G'INN RAOVE THE CELINO TRUE OF INN RAOVE THE CELINO TRUE of VIENT ACCUSTIC STRUCTURE TRUE of VIENT ACOUSTIC INSULATION ABOVE IS CHEDULE TRUE OF INN RAOVE THE ACOUSTIC AL SEALANT - SEE DETAIL 1/A0.21 | ECTED CEILING | min. 6" ABOVE SCHED. CEILING SEE REFLECTED CEILING PLAN FOR SCHED. | |
| FM4c FM6c JD W/ GYPSUM BOARD SIDES WITH ACOUSTIC INSULATION ABOVE FOR STUD SIZES) | TUDS TO SLAB STRUCTURE BASE I SCHEDULE B, SEE NG'S AL SEALANT - | 7/8" FURRING CHANNELS ATTACHED TO CMU OR CONCRETE WALLS RESILIENT BASE SEE FINISH SCHEDULE ACOUSTICAL SEALANT - | |
| SIDES WITH ACOUSTIC INSULATION ABOVEON BOTH SIDES WITH ACOUSTIC INSULATION ABOVE (SEE PLAN FOR STUD SIZES) | | FC1c | |
| | SIDES WITH ACOUSTIC INSULATION ABOVE FOR STUD SIZES) | ON BOTH SIDES WITH ACOUSTIC INSULATION ABOVE (SEE PLAN FOR STUD SIZES) | |
| | | | |



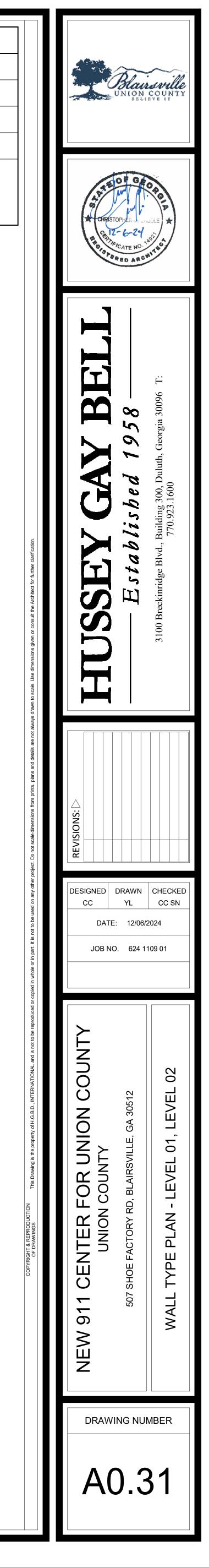


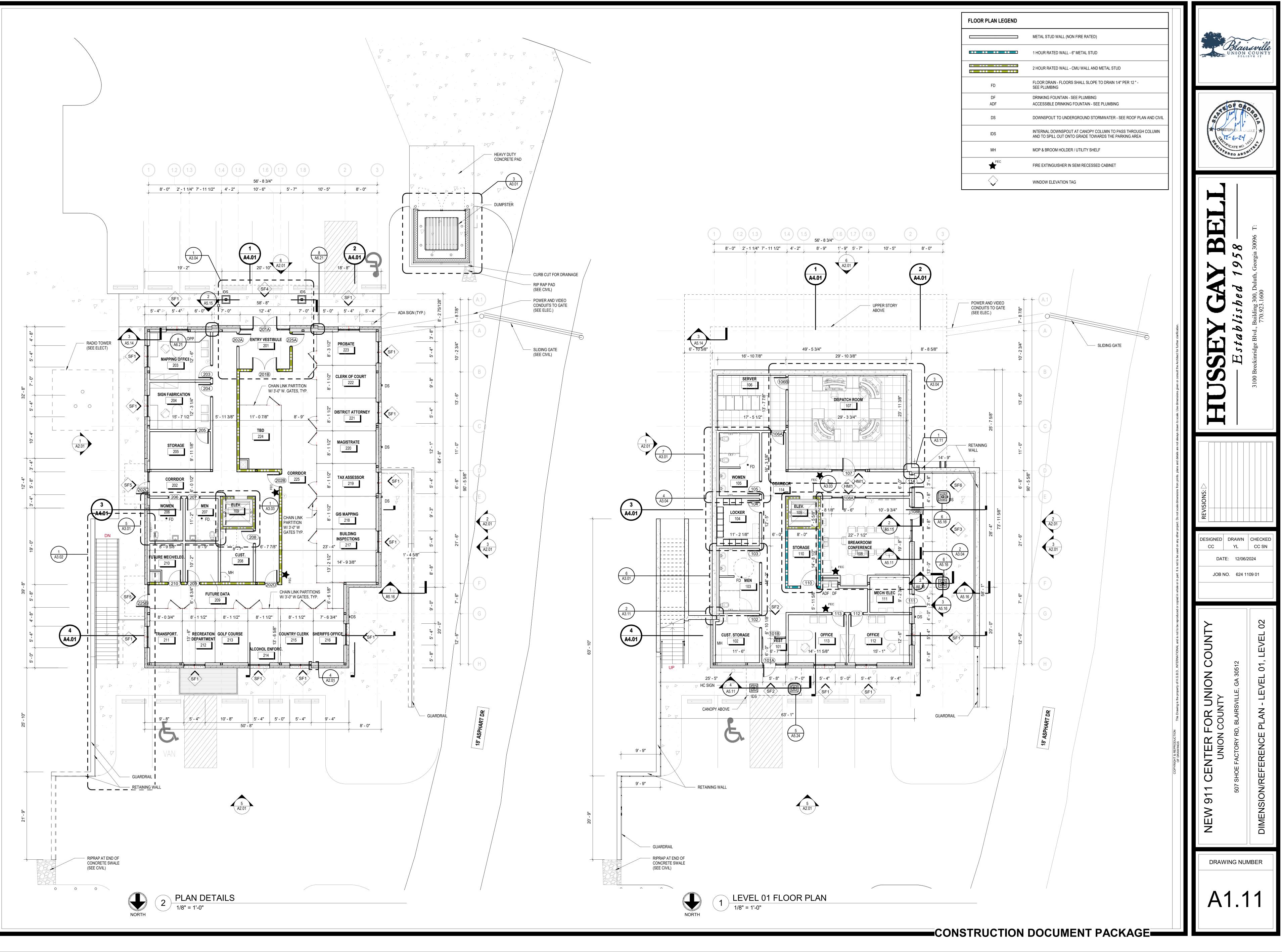




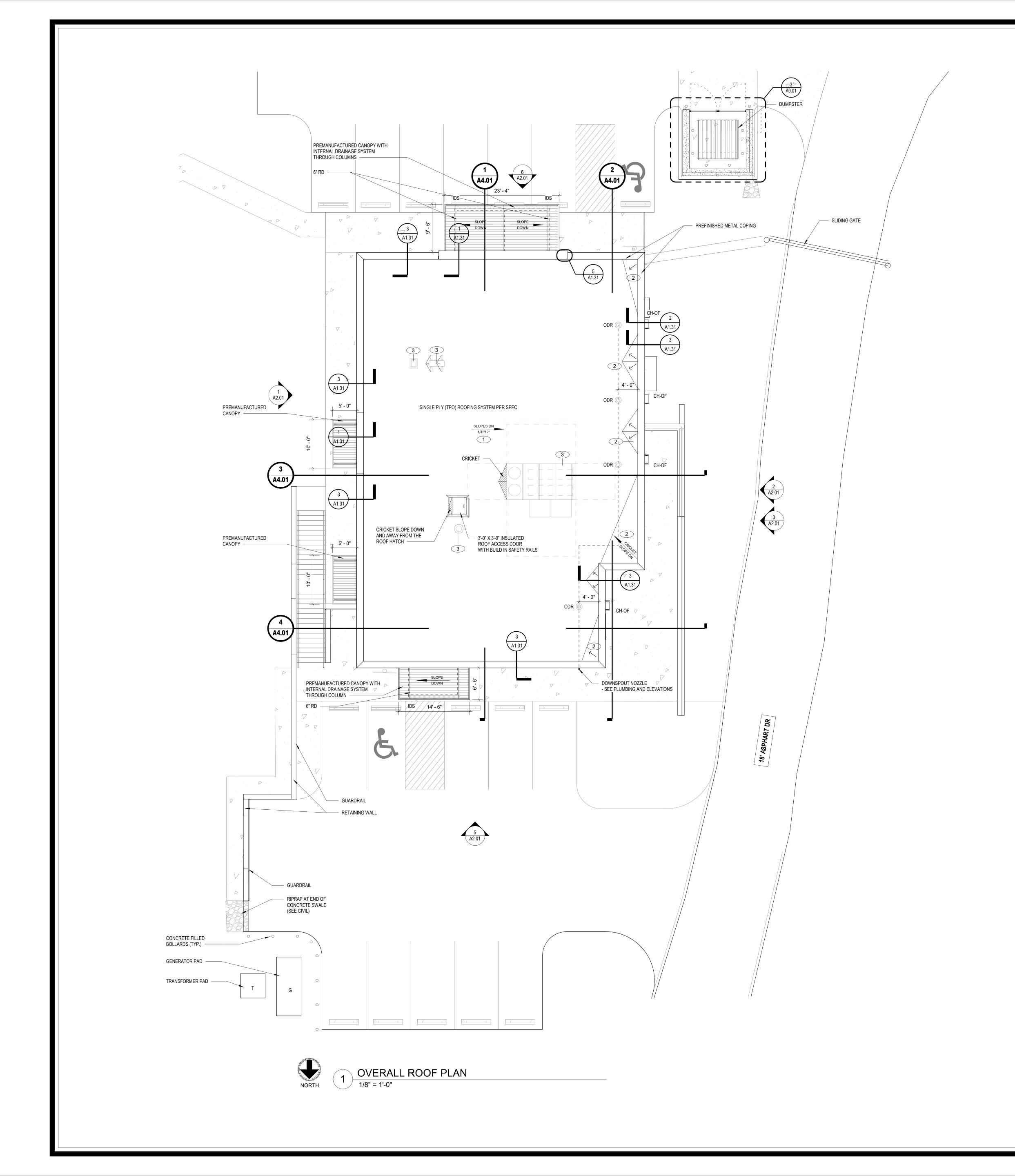


1 LEVEL 01 WALL TYPE PLAN 1/8" = 1'-0"





| FLOOR PLAN LEGEND | |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| | METAL STUD WALL (NON FIRE RATED) |
| | 1 HOUR RATED WALL - 6" METAL STUD |
| | 2 HOUR RATED WALL - CMU WALL AND METAL STUD |
| FD | FLOOR DRAIN - FLOORS SHALL SLOPE TO DRAIN 1/4" PER 12 " - SEE PLUMBING |
| DF | DRINKING FOUNTAIN - SEE PLUMBING |
| ADF | ACCESSIBLE DRINKING FOUNTAIN - SEE PLUMBING |
| DS | DOWNSPOUT TO UNDERGROUND STORMWATER - SEE ROOF PLAN AND |
| IDS | INTERNAL DOWNSPOUT AT CANOPY COLUMN TO PASS THROUGH COLU AND TO SPILL OUT ONTO GRADE TOWARDS THE PARKING AREA |
| МН | MOP & BROOM HOLDER / UTILITY SHELF |
| FEC | FIRE EXTINGUISHER IN SEMI RECESSED CABINET |
| \bigcirc | WINDOW ELEVATION TAG |
| | |



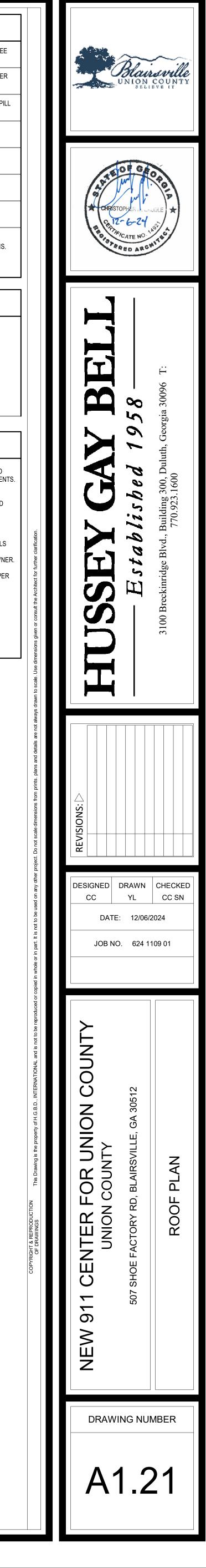
ROOF PLAN LEGEND THRU WALL SCUPPER TO CONDUCTOR HEAD WITH OVERFLOW AND DOWNSPOUT - SEE CH-OF ELEVATIONS AND DETAIL 2 / A1.31 SMOOTH RECTANGULAR DOWNSPOUT TO CONNECT TO UNDERGROUND STORMWATER DS SYSTEM - SEE CIVIL INTERNAL DOWNSPOUT AT CANOPY COLUMN TO PASS THROUGH COLUMN AND TO SPILL IDS OUT ONTO GRADE TOWARDS THE PARKING AREA ROOF WALKWAY PADS - SHALL BE COMPATIBLE WITH TPO ROOFING SYSTEM - PADS WP SHALL BE PLACED AT ROOF HATCH AND AROUND MECHANICAL UNITS TO PROVIDE PROTECTION WHILE SERVICING EQUIPMENT ODR OVERFLOW ROOF DRAIN - SEE PLUMBING AND DETAIL 2 / A1.31 GENERAL NOTES: 1. SEE PLUMBING AND MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS.

KEYED NOTES :

| SINGLE PLY MEMBRANE (TPO) ROOFING OVER 1/2" OVERLAY BOARD OVER 6" (R-30 MIN) RIGID INSULATION OVER METAL DECKING. |
|----------------------------------------------------------------------------------------------------------------------|
| USE RIGID INSULATION TO PROVIDE CRICKET SLOPE |
| MECHANICAL EQUIPMENT - SEE MECHANICAL |
| |

ROOF NOTES :

- 1. ROOF INSTALLATION MUST MEET ALL NATIONAL ROOFING CONTRACTORS ASSOCIATION GUIDELINES AND ROOF MANUFACTURER'S PRINTED INSTRUCTIONS FOR 20 YEAR WARRANTY WITH FLASHING ENDORSEMENTS.
- 2. ALL ROOF SURFACES TO HAVE MIN. 1/4"/ FT. SLOPE. CRICKET w/TAPERED INSULATION AS NEEDED BEHIND HVAC UNITS.
- COORDINATE ROOFING WORK WITH MECH/HVAC WORK. KEEP BUILDING WEATHERTIGHT.
 INDICATED THICKNESS FOR METALS ARE TO ESTABLISH MINIMUM REQUIREMENTS ONLY. PROVIDE METALS OF SUFFICIENT THICKNESS FOR THE CONDITION. ANY METALS THAT INDICATE "OIL-CANNING" AFTER
- INSTALLATION WILL BE REQUIRED TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.INSTALL 2 ROWS OF 30" WALKWAY PADS AROUND ALL ROOF TOP UNITS AND AT ROOF HATCH. TYPICAL. PER
- SPECS.6. ALL ROOF TOP UNITS ARE TO BE COUNTERFLASHED AND INSULATED BY ROOFING CONTRACTOR.
- ALL COPINGS TO HAVE STANDING SEAMS @ 10' MAX. PER SMACNA PLATE 68, SECTION A-A.
- 8. GAS PIPE ABOVE THE ROOF TO BE PAINTED YELLOW PER THE SPECIFICATIONS.



9 PARAPET TRANSITION DETAIL SECTION 3" = 1'-0"

| | PREFINISHED METAL COPING | | |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------|
| | SINGLE PLY ROOFING TO TURN UP OVER PARAPET AND BACK UNDER PARAPET ASSEMBLY INTO THE SPRAY FOAMED INSULATION A MINIMUM OF 3" | | |
| | PT 2X8'S WITH PT 3/4" PLYWOOD AT TOP AND BOTTOM - FASTEN TOGETHER AND TO PARAPET - SEE PARAPET DETAILS | | |
| \bullet | T.O. MAIN ENTRY PARAPET | | 2" BOARD INSULATION |
| ľ | 3 1/2" X 3 1/2" HEAVY GAUGE COLD-ROLLED METAL ANGLE | | FLUID APPLIED MEMBF |
| | FIELD BRICK VENEER | | |
| | MASONRY ANCHORS AT 16" OC | | GYPSUM BOARD SH |
| | CAVITY DRAINAGE MATERIAL | | STEEL TU |
| | WEEP AT 24" OC | | |
| | PREFINISHED METAL FLASHING WITH CONT DRIP EDGE | | SELF ADHERING ST STEEL FLEXIBLE WALL F |
| | CONT SEALANT | | METAL STUD FRAMING W FACED BATT INSULA |
| | SPRING LOCK REGLET FLASHING | | R. |
| 31 | 1" TERMINATION BAR WITH CONT | | GROUT SOLID BELOW F |
| _ | - TURN TPO UP SIDE OF BRICK | | 1/2" REVEAL IN PARAPET |
| | PREFINISHED METAL FLASHING 6" MIN. | | STEEL ANGLE - SEE STRU |
| | BUTT PLATE WITH COPING REVEAL - TURN UP WALL 8" - 1/2"- | | FLUID APPLIED MEMBF |
| <u> </u> | | | |
| <u></u> | | | STEEL BEAM AT PARAF |
| | | | <u> </u> |
| | T.O. STEEL 34' - 0" | | |
| | | 1" 8" | |
| | PREFINISHED METAL PARAPET | 1 | |
| | PT 2X6'S WITH PT 3/4" | | |
| | PLYWOOD AT TOP AND BOTTOM - FASTEN TOGETHER AND TO PARAPET - SEE | | |

-5/8"

r (/

2"

-+`+

6" 5/8"-

9 1/4"

ROOF DECK AT HIGH PARAPET 6 3" = 1'-0"

SINGLE PLY (TPO)

MEMBRANE ROOF

1/2" OVERLAY BOARD -

PT 2X6 CONT BLOCKING

WITH PT 1/2" PLYWOOD

5" RIGID INSULATION

METAL ROOF DECK -

SEE STRUCTURAL

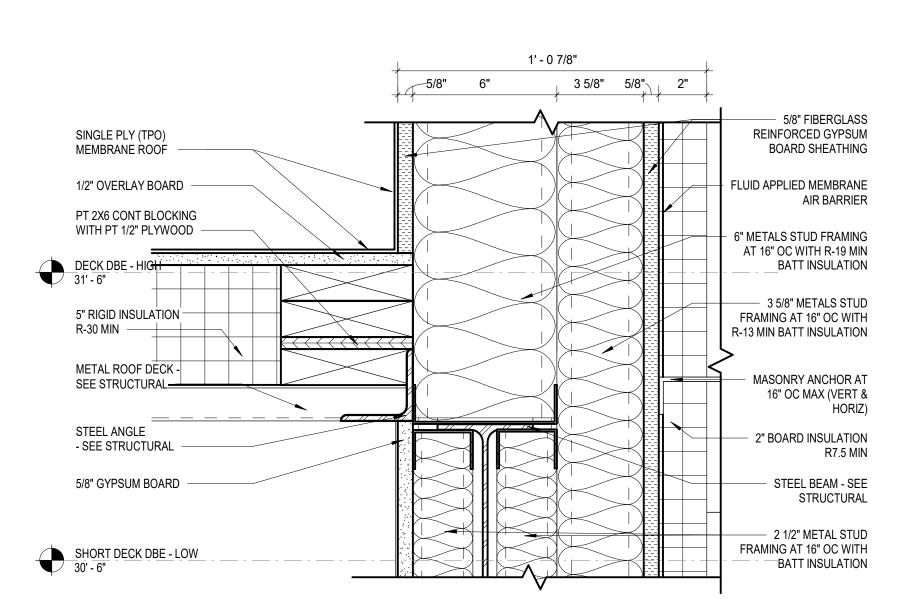
- SEE STRUCTURAL

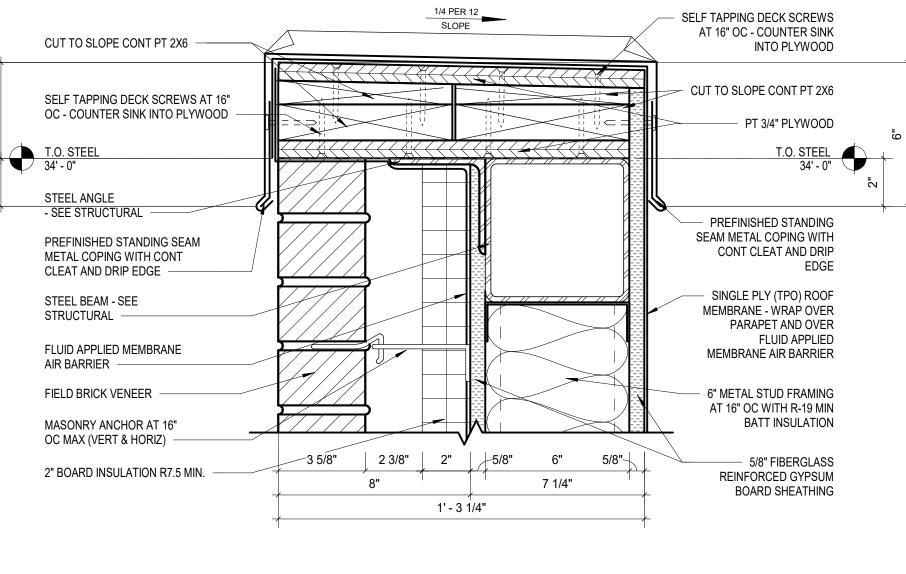
5/8" GYPSUM BOARD

STEEL ANGLE

<u>DECK DBE - HIGH</u> 31' - 6"

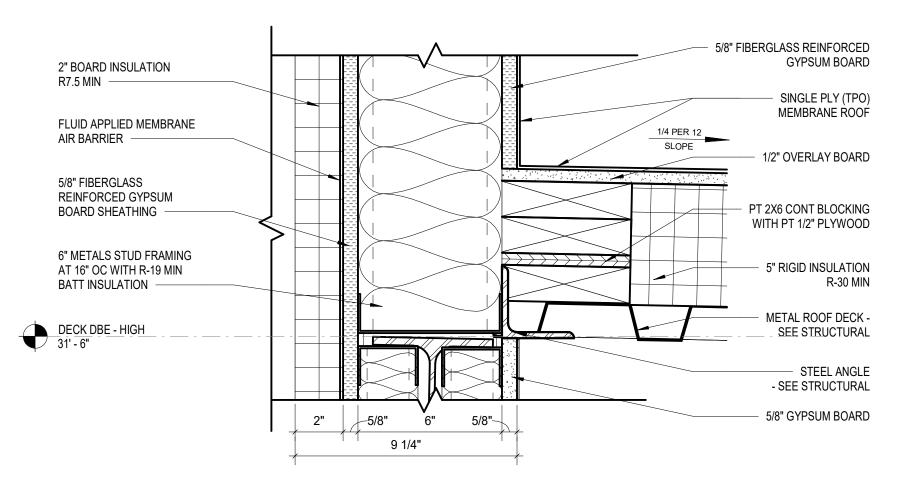
R-30 MIN -



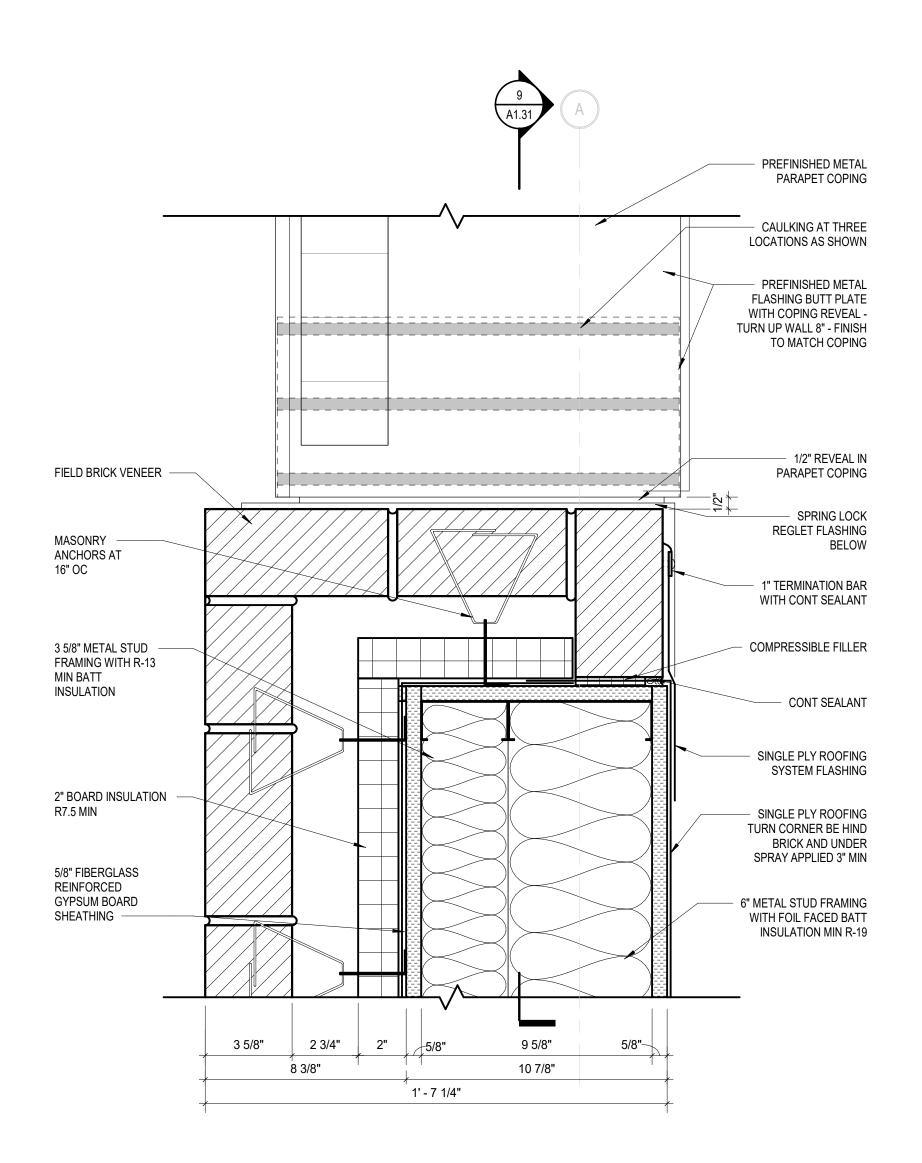




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- 5/8" FIBERGLASS

REINFORCED GYPSUM

FLUID APPLIED MEMBRANE

6" METALS STUD FRAMING

AT 16" OC WITH R-19 MIN

— 2" BOARD INSULATION

BATT INSULATION

- STEEL BEAM - SEE

— 2 1/2" METAL STUD

BATT INSULATION

FRAMING AT 16" OC WITH

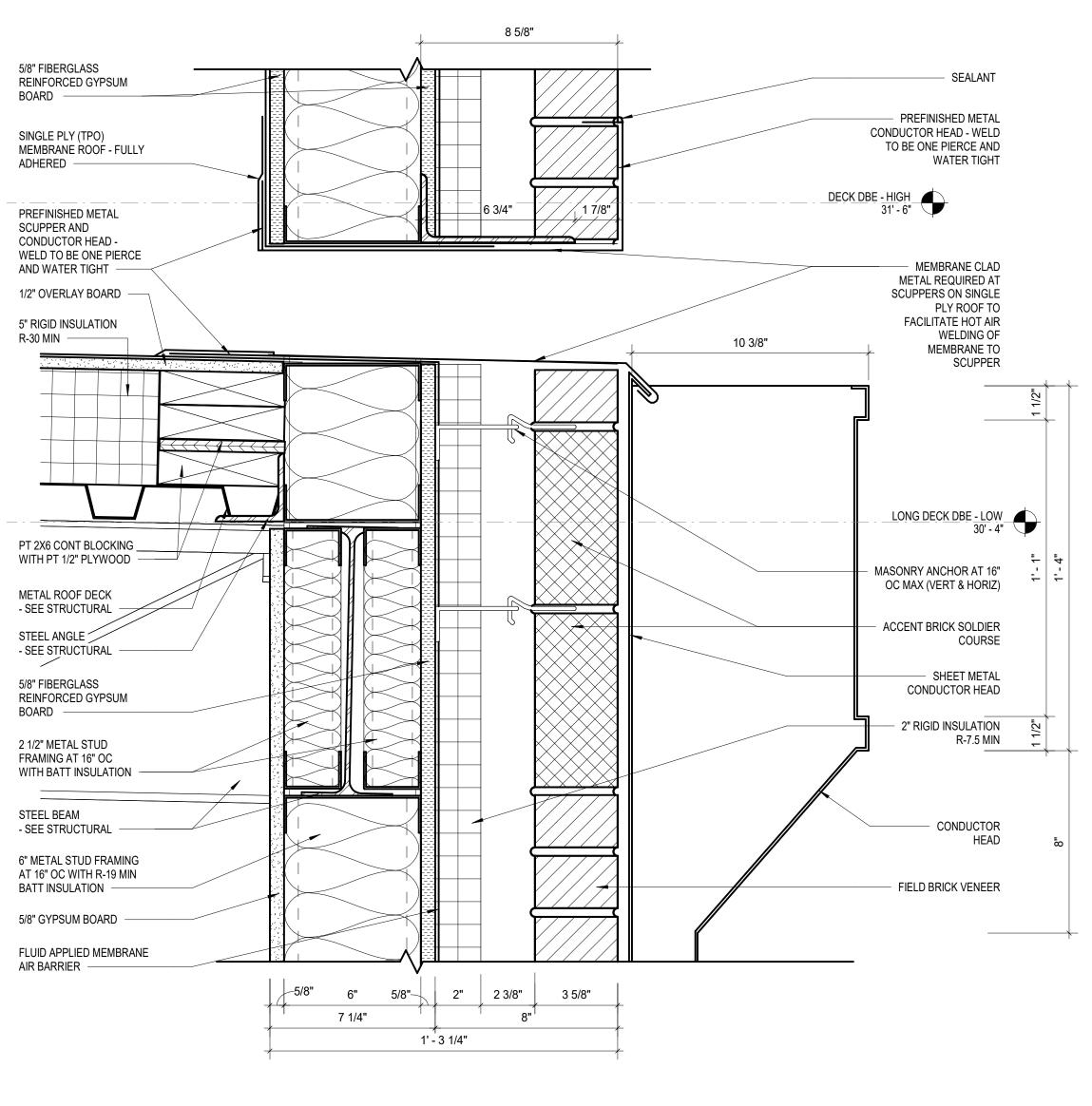
STRUCTURAL

R7.5 MIN

BOARD SHEATHING

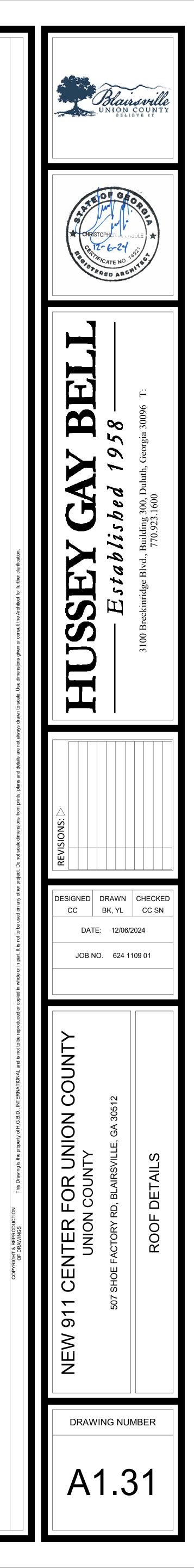
AIR BARRIER

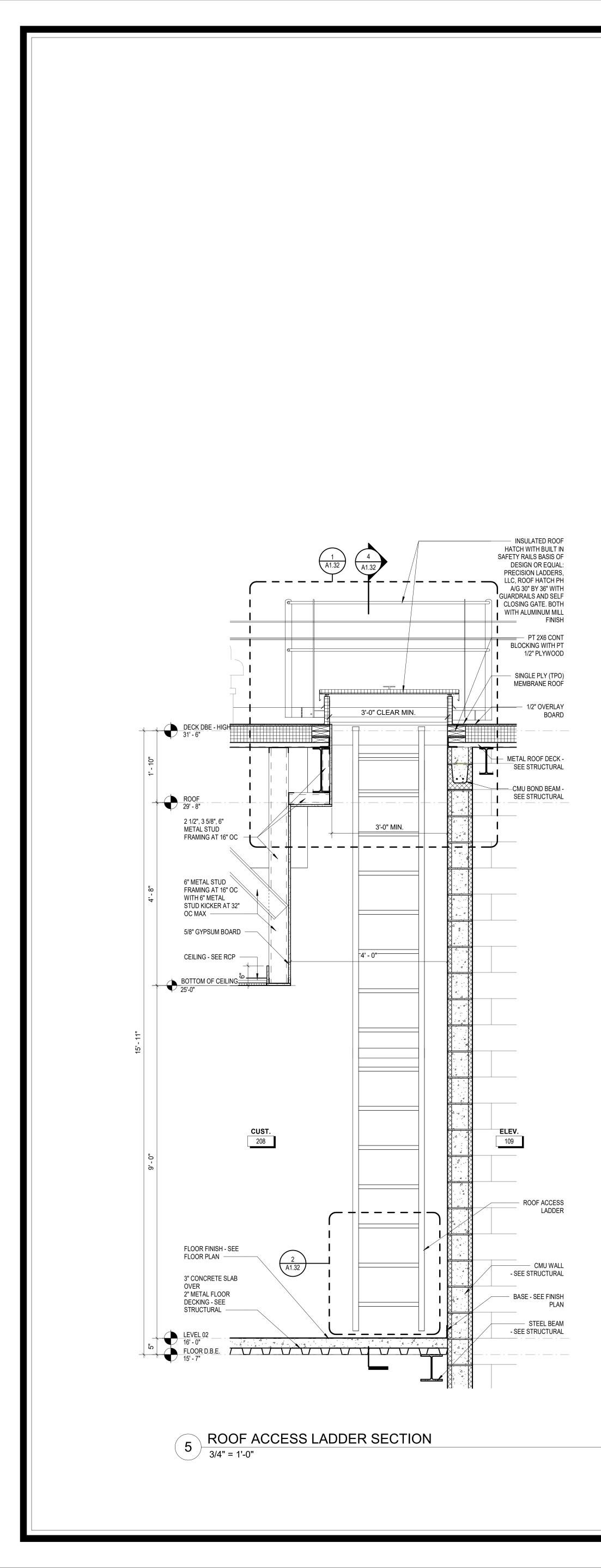
| | | | 1/4 PER 12 SLOPE | | | | |
|------------------------------------------------------------------------------------------------------------|------------------|----------------------|--------------------------|--------|--------|----------------------------------------------------------------------------|---------|
| CONT PT 2X6 | $\bigvee \frown$ | | | | | CONT PT 2X8 | |
| PREFINISHED STANDING SEAM METAL COPING WITH CONT CLEAT AND DRIP EDGE | | | | | | — SELF TAPPING DECK SCREWS AT 16" OC - COUNTER SINK INTO PLYWOOD | 4 |
| | | | | | | T.O. MAIN ENTRY PARAPET 36' - 0" | |
| | | | | | | PT 3/4" PLYWOOD | 2" MIN. |
| SELF TAPPING DECK SCREWS AT 16" OC - COUNTER SINK INTO PLYWOOD | | | | | | PREFINISHED STANDING SEAM METAL COPING WITH CONT CLEAT AND DRIP EDGE | |
| STEEL ANGLE - SEE STRUCTURAL | | | | _ | | FLUID APPLIED MEMBRANE AIR BARRIER | |
| STEEL BEAM - SEE STRUCTURAL | | | | | | FIELD BRICK VENEER | |
| SINGLE PLY (TPO) ROOF MEMBRANE - WRAP OVER PARAPET AND OVER FLUID APPLIED MEMBRANE AIR BARRIER | | | | | | 2" BOARD INSULATION R7.5 MIN. | |
| 6" METAL STUD FRAMING AT 16" OC WITH R-19 MIN BATT INSULATION | | | | | | MASONRY ANCHOR AT 16" OC MAX (VERT & HORIZ) | |
| 5/8" FIBERGLASS REINFORCED GYPSUM | | | | | | 5/8" FIBERGLASS REINFORCED GYPSUM BOARD SHEATHING | |
| BOARD SHEATHING | 5/8" | 6" 3 5/8' 10 7/8" | * 5/8" 2" | 2 3/4" | 3 5/8" | 3 5/8" METALS STUD FRAMING AT 16" OC WITH R-13 MIN BATT INSULATION | |
| | | | 1' - 7 1/4" [†] | | | | |
| WALL PARAPE | Γ ΠΕΤΔΙΙ Δ | Τ ΗΙGΗ ΡΔ | RAPET | | | | |

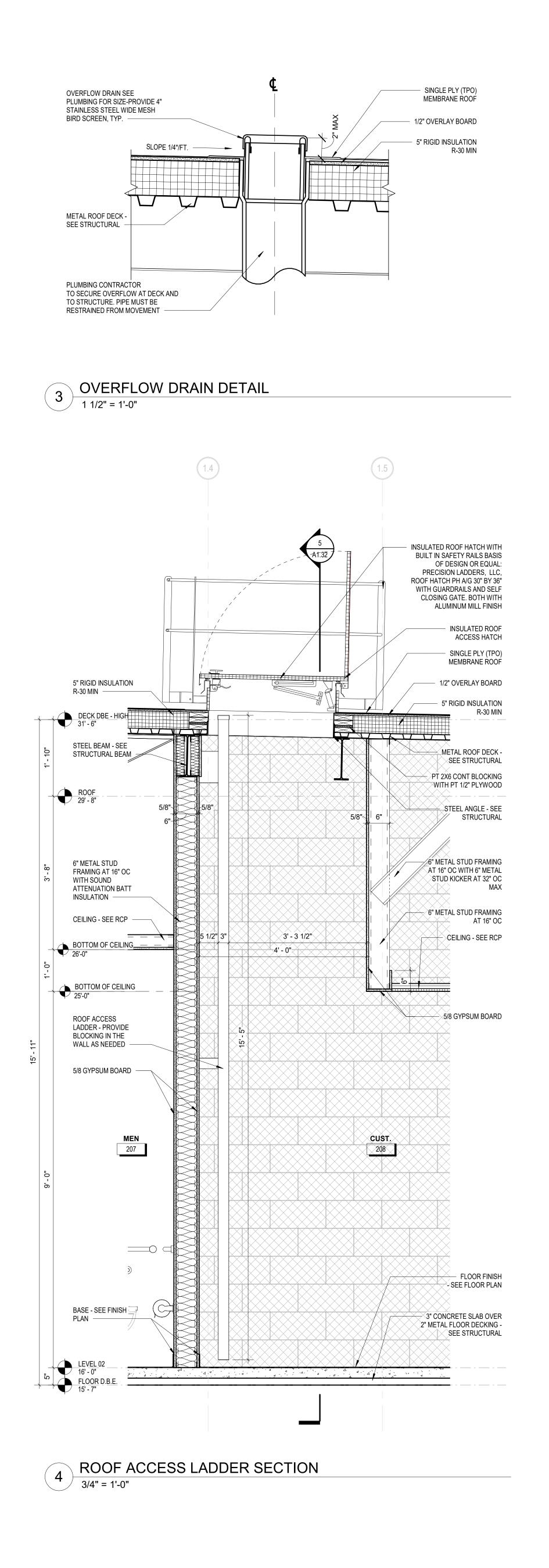


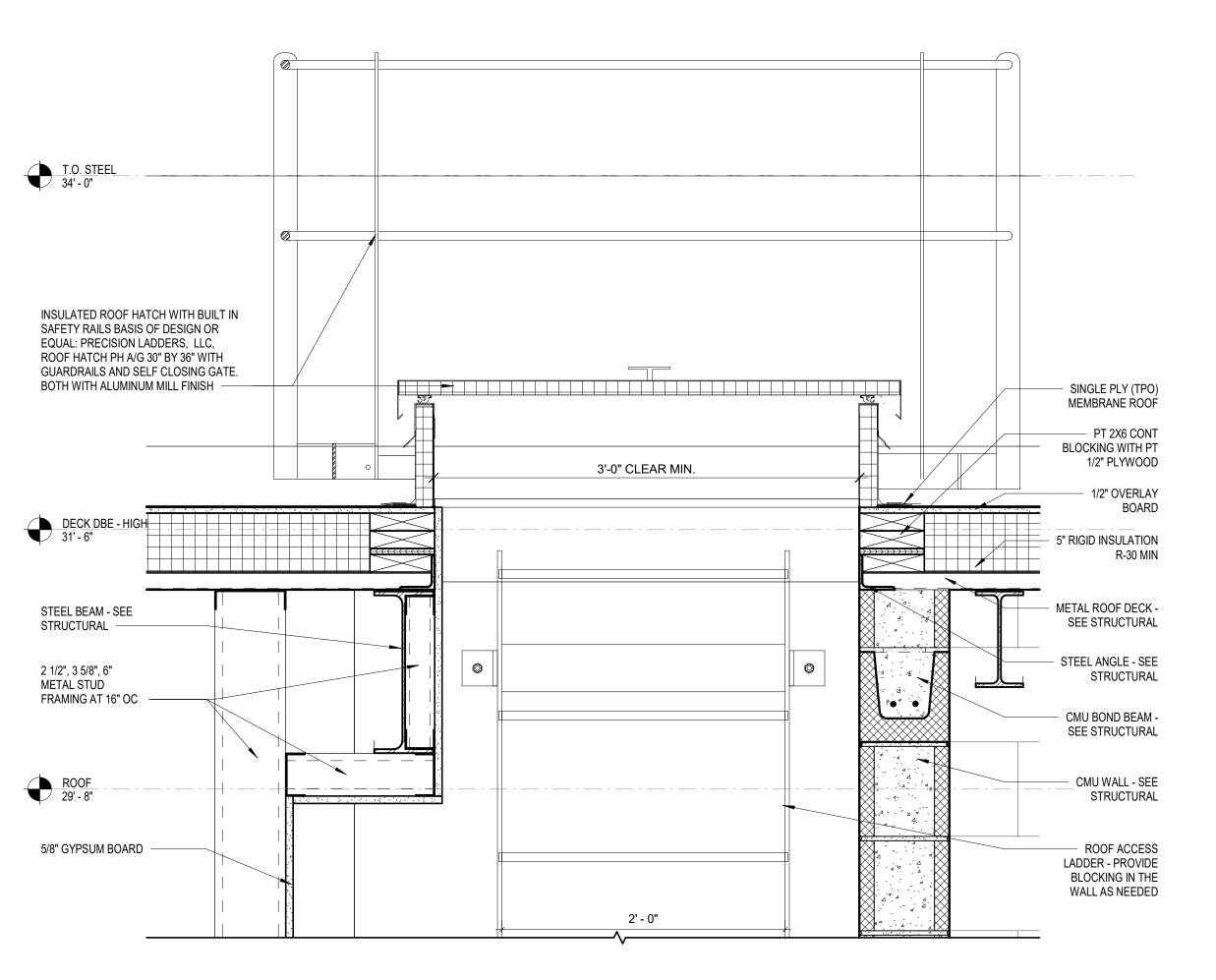
2 SCUPPER SECTION DETAIL 3" = 1'-0"

1

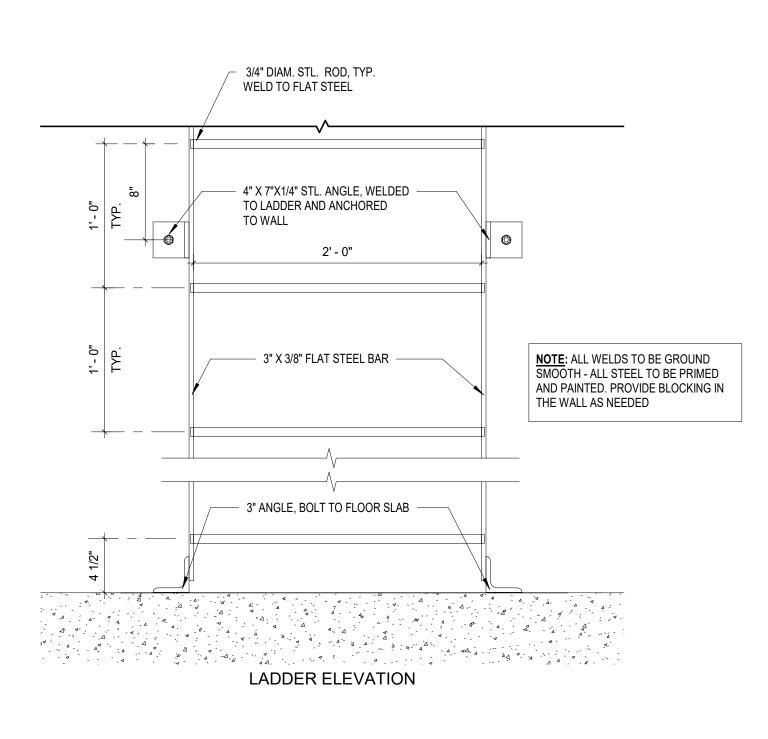




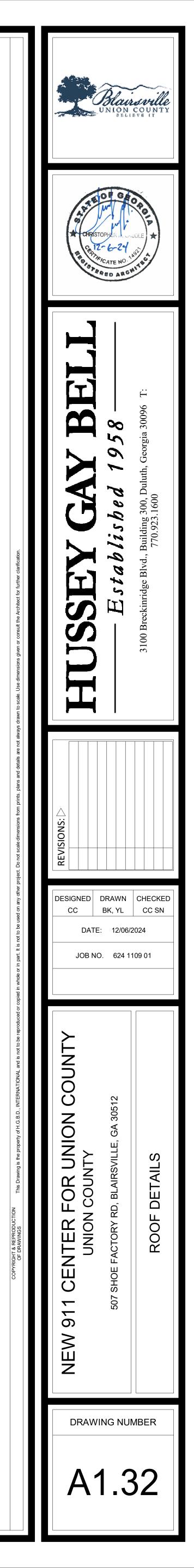


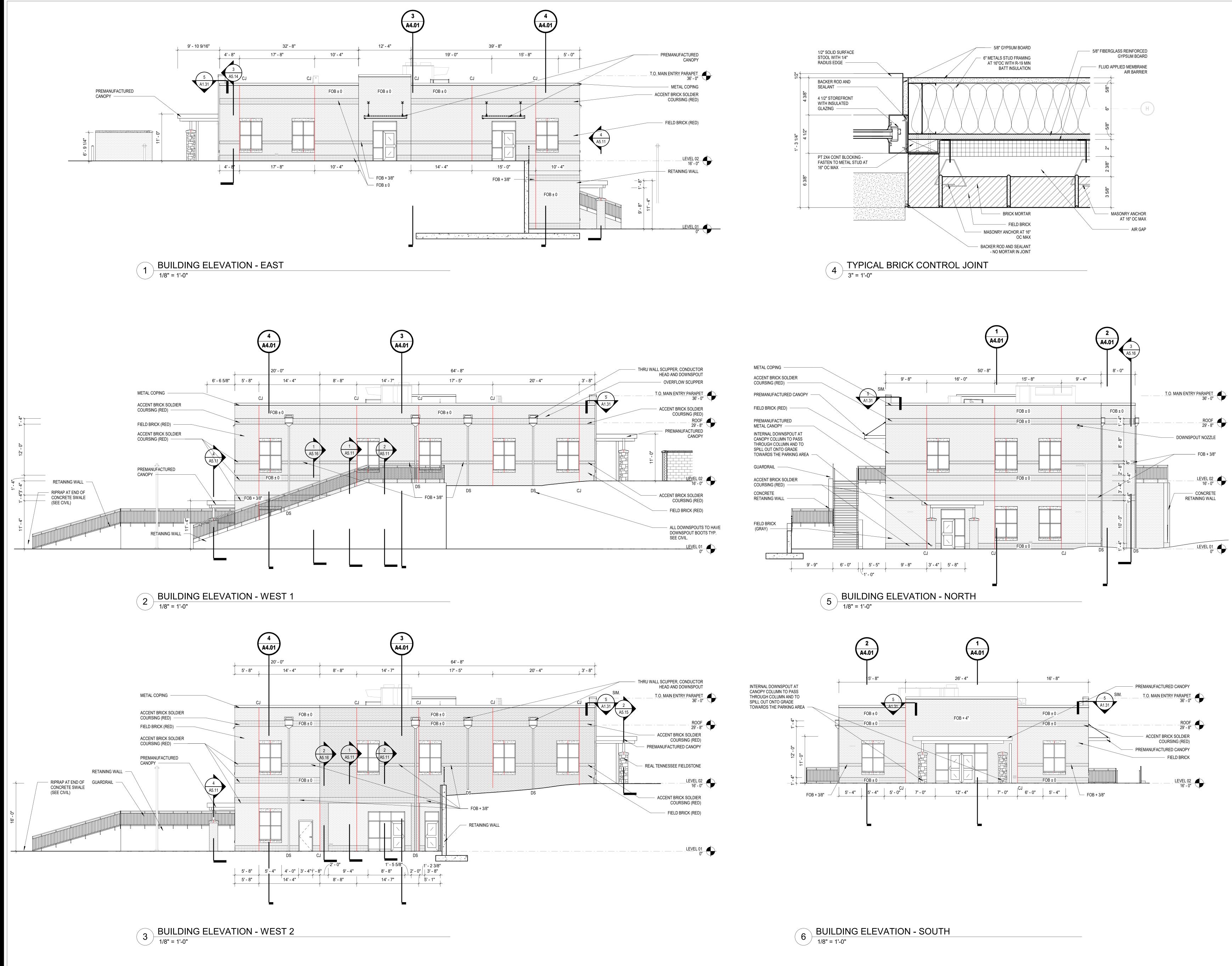


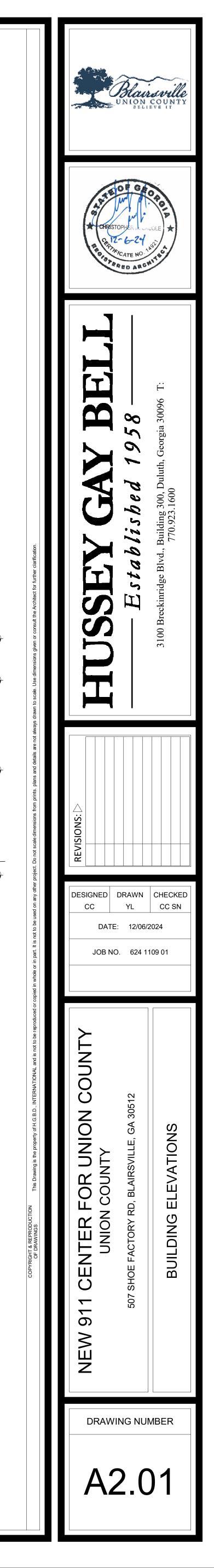
1 ROOF HATCH & LADDER ELEVATION

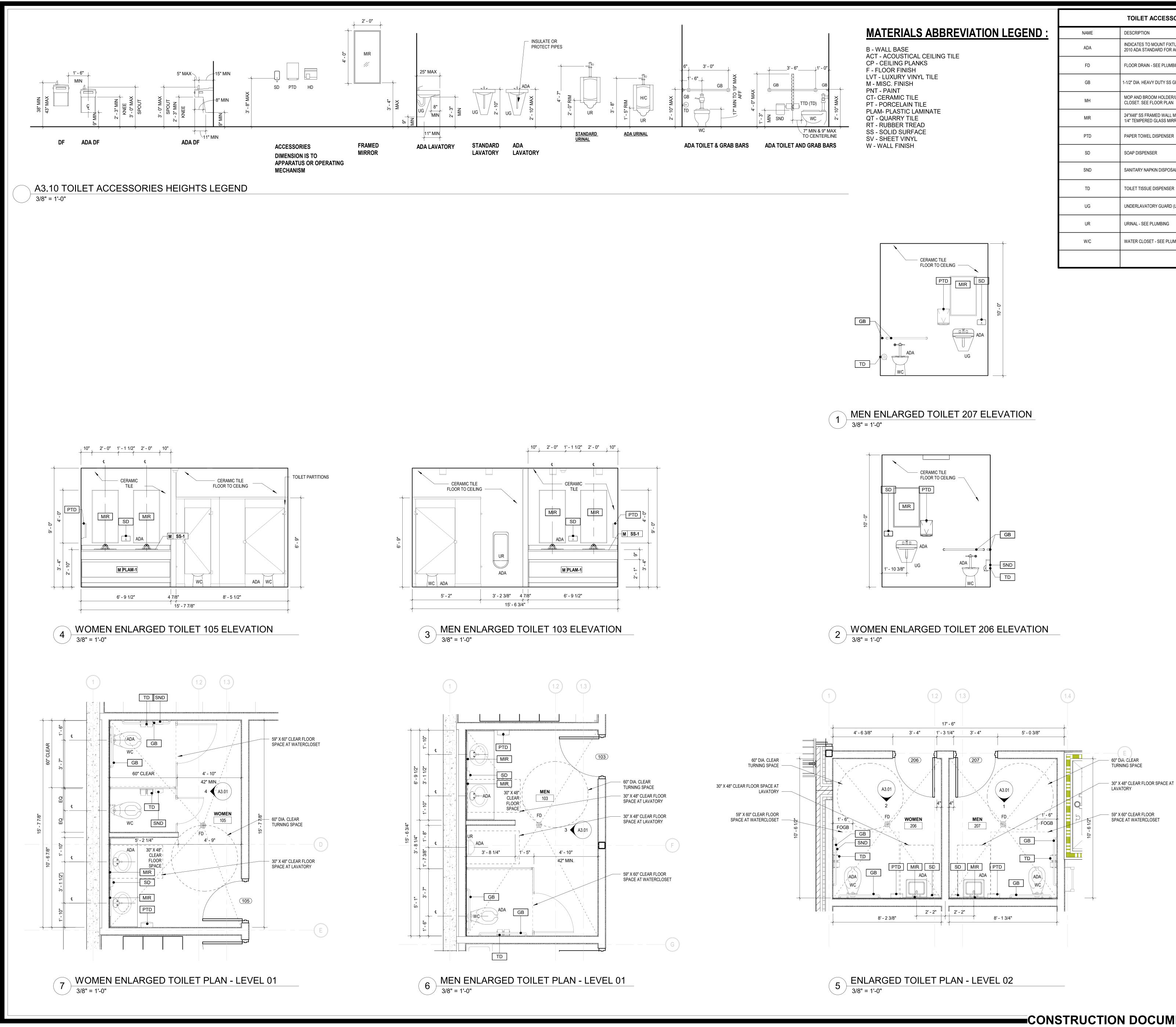


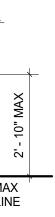
2 LADDER ELEVATION 1 1/2" = 1'-0"



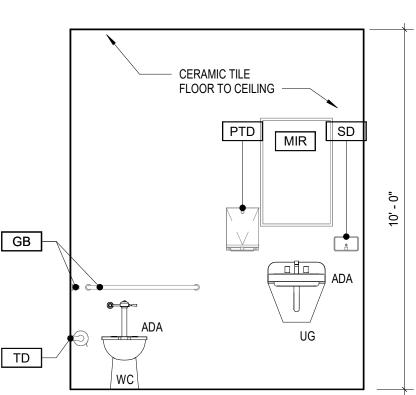


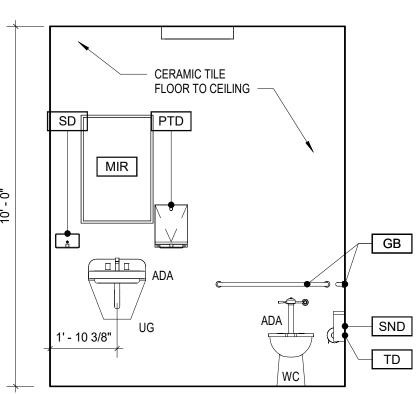


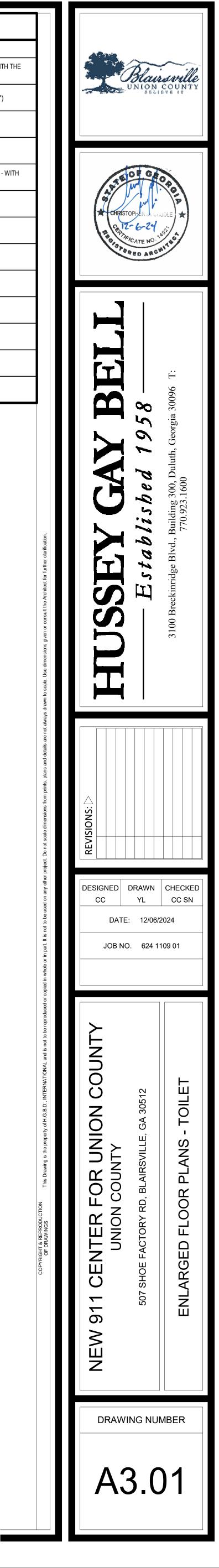


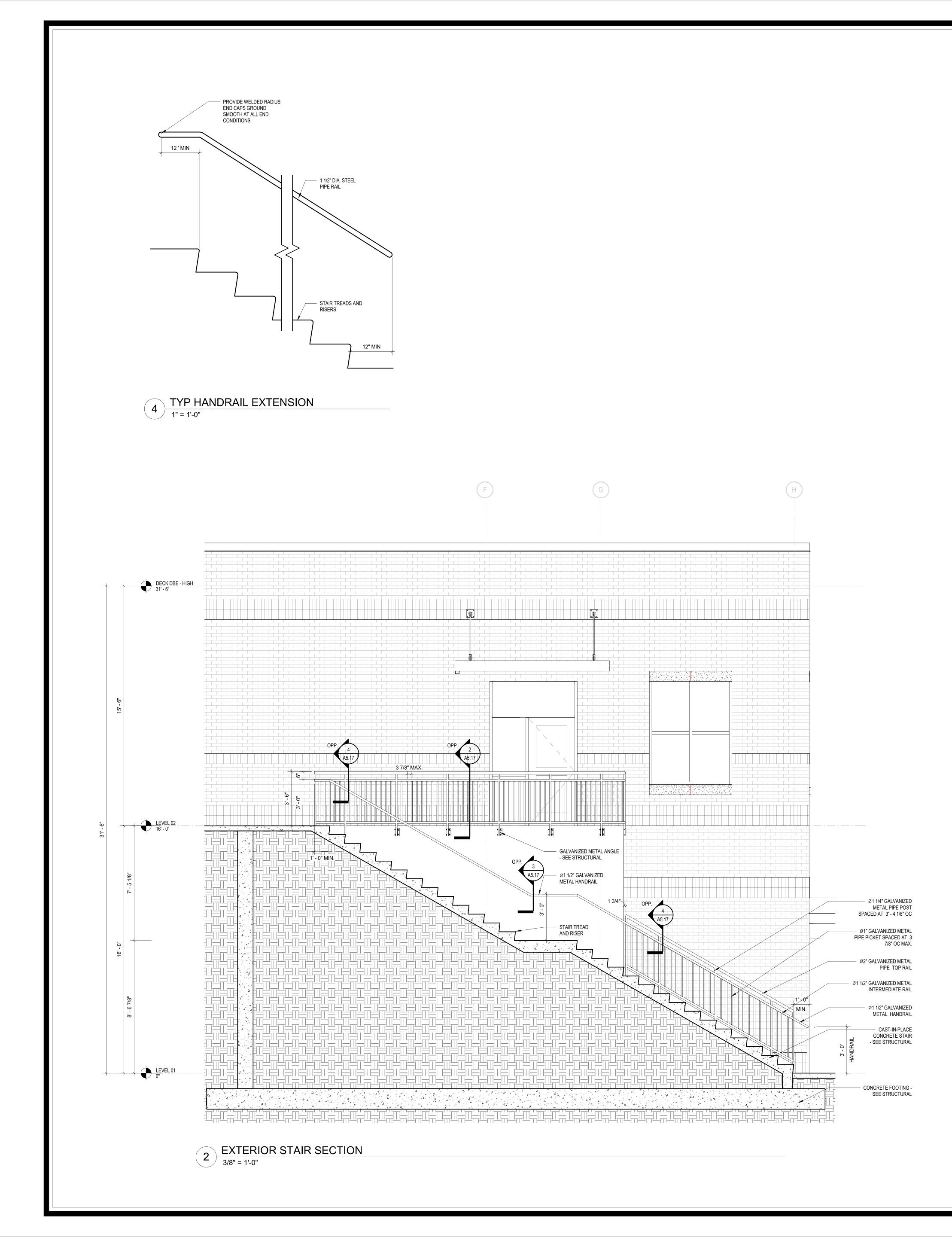


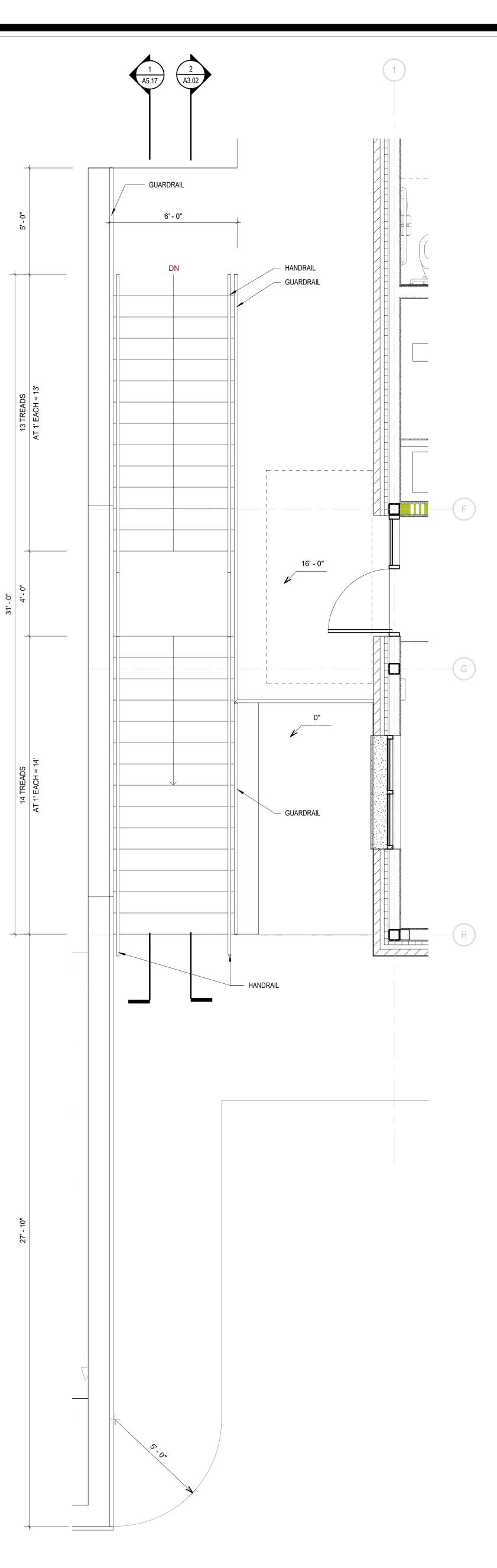
| | TOILET ACCESSORIES LEGEND |
|------|------------------------------------------------------------------------------------------------------------|
| NAME | DESCRIPTION |
| ADA | INDICATES TO MOUNT FIXTURE AT ACCESSIBLE HEIGHT IN COMPLIANCE WITH 2010 ADA STANDARD FOR ACCESSIBLE DESIGN |
| FD | FLOOR DRAIN - SEE PLUMBING (SLOPES TO FLOOR DRAIN SHALL BE 1/4":12") |
| GB | 1-1/2" DIA. HEAVY DUTY SS GRAB BAR (36" AND 42") |
| МН | MOP AND BROOM HOLDER/UTILITY SHELF - PROVIDE AT EACH CUSTODIAL CLOSET. SEE FLOOR PLAN |
| MIR | 24"X48" SS FRAMED WALL MIRROR ATTACHED W/ CONCEALED FASTENERS - W 1/4" TEMPERED GLASS MIRROR |
| PTD | PAPER TOWEL DISPENSER |
| SD | SOAP DISPENSER |
| SND | SANITARY NAPKIN DISPOSAL |
| TD | TOILET TISSUE DISPENSER |
| UG | UNDERLAVATORY GUARD (LAVATORY PROTECTIVE ENCLOSURE) |
| UR | URINAL - SEE PLUMBING |
| W/C | WATER CLOSET - SEE PLUMBING |
| | |



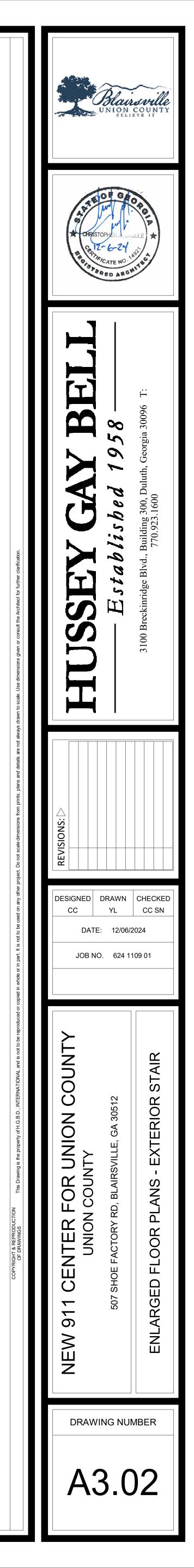


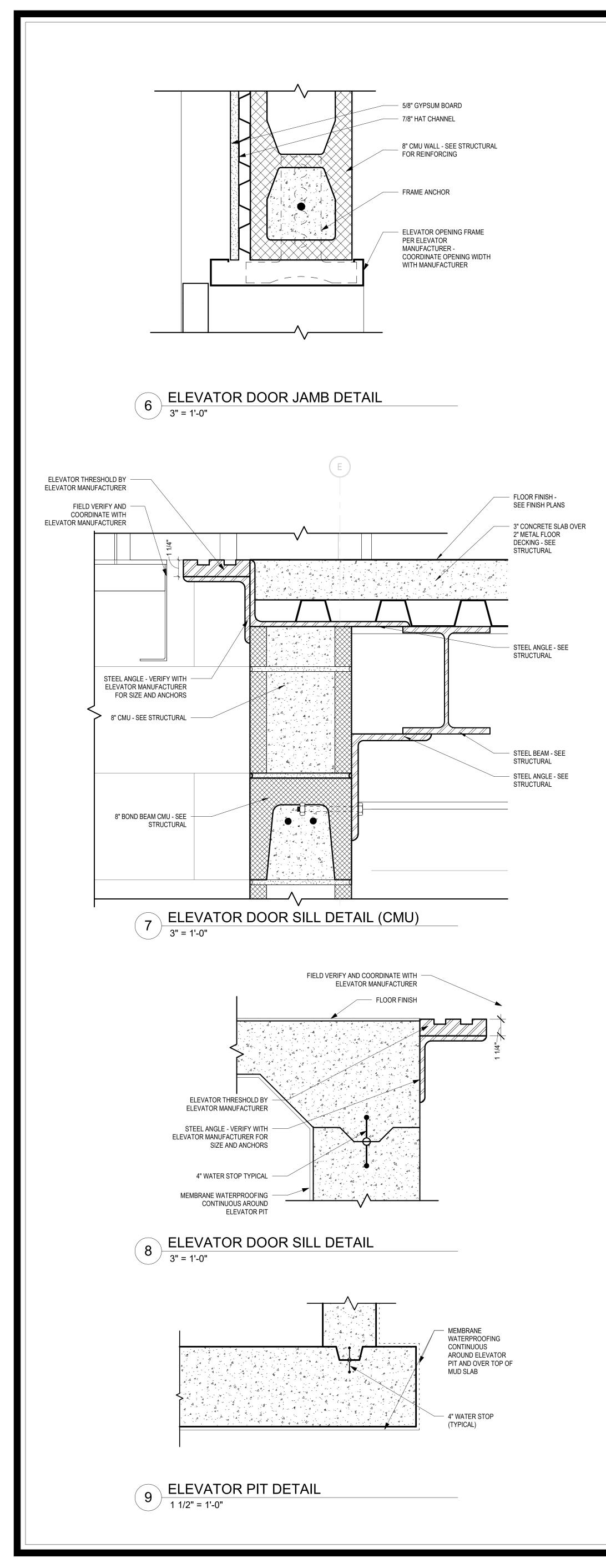


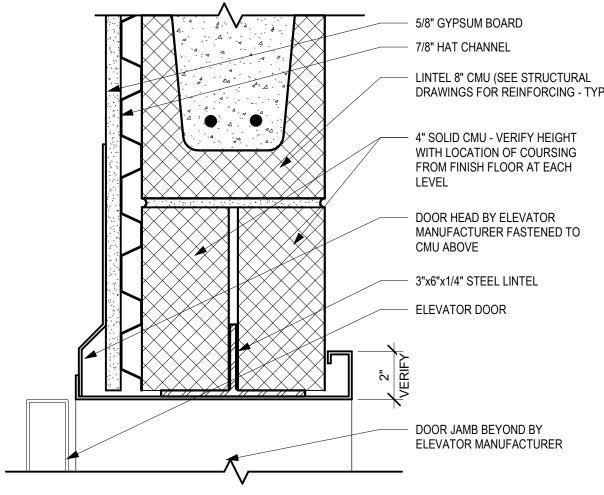




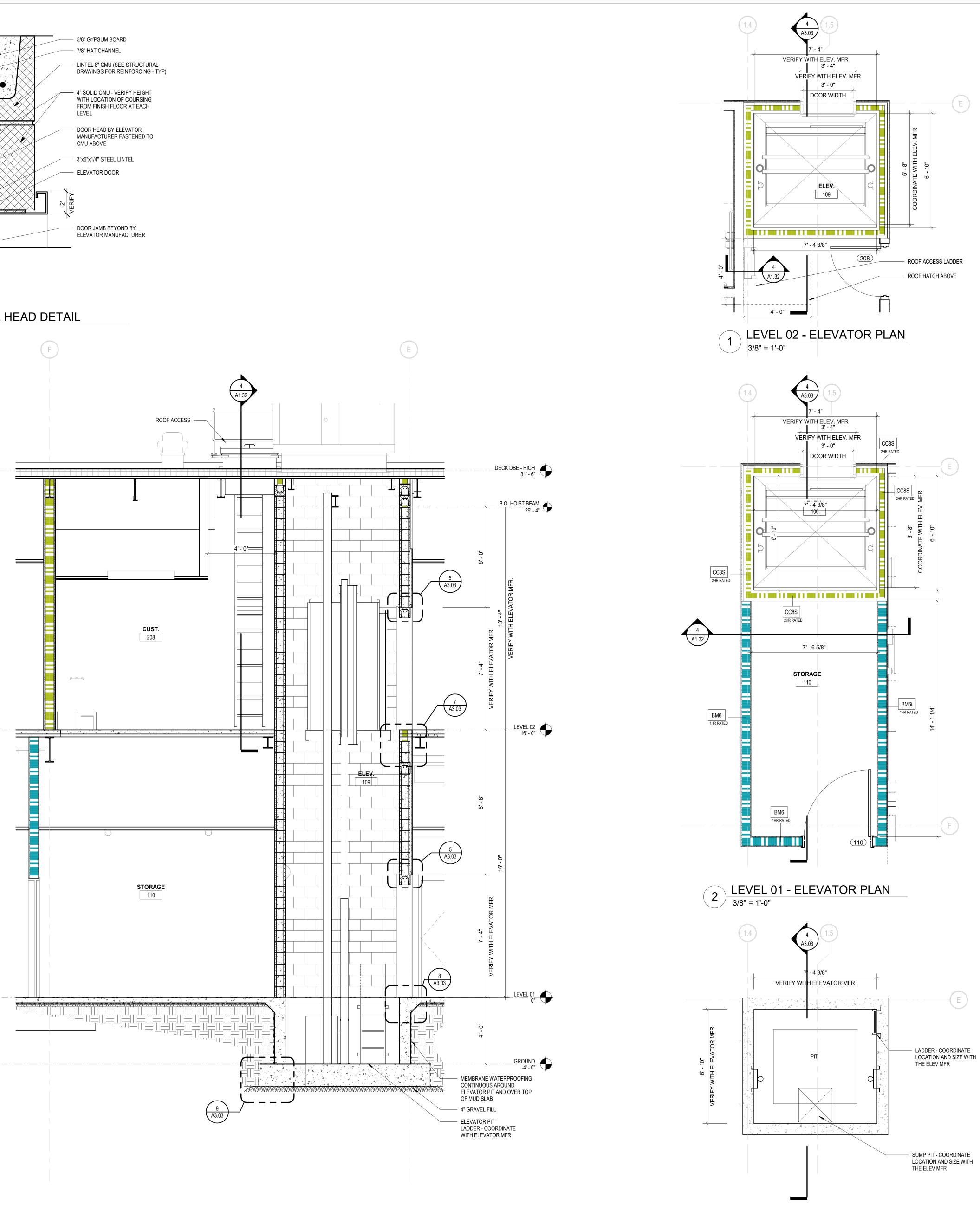
1 LEVEL 02 - EXTERIOR STAIR PLAN 3/8" = 1'-0"





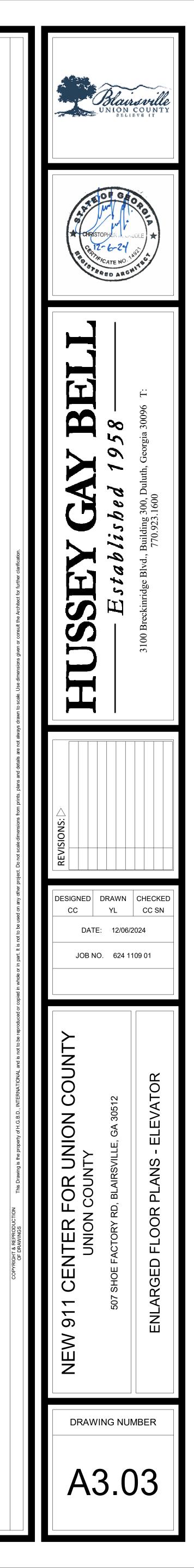


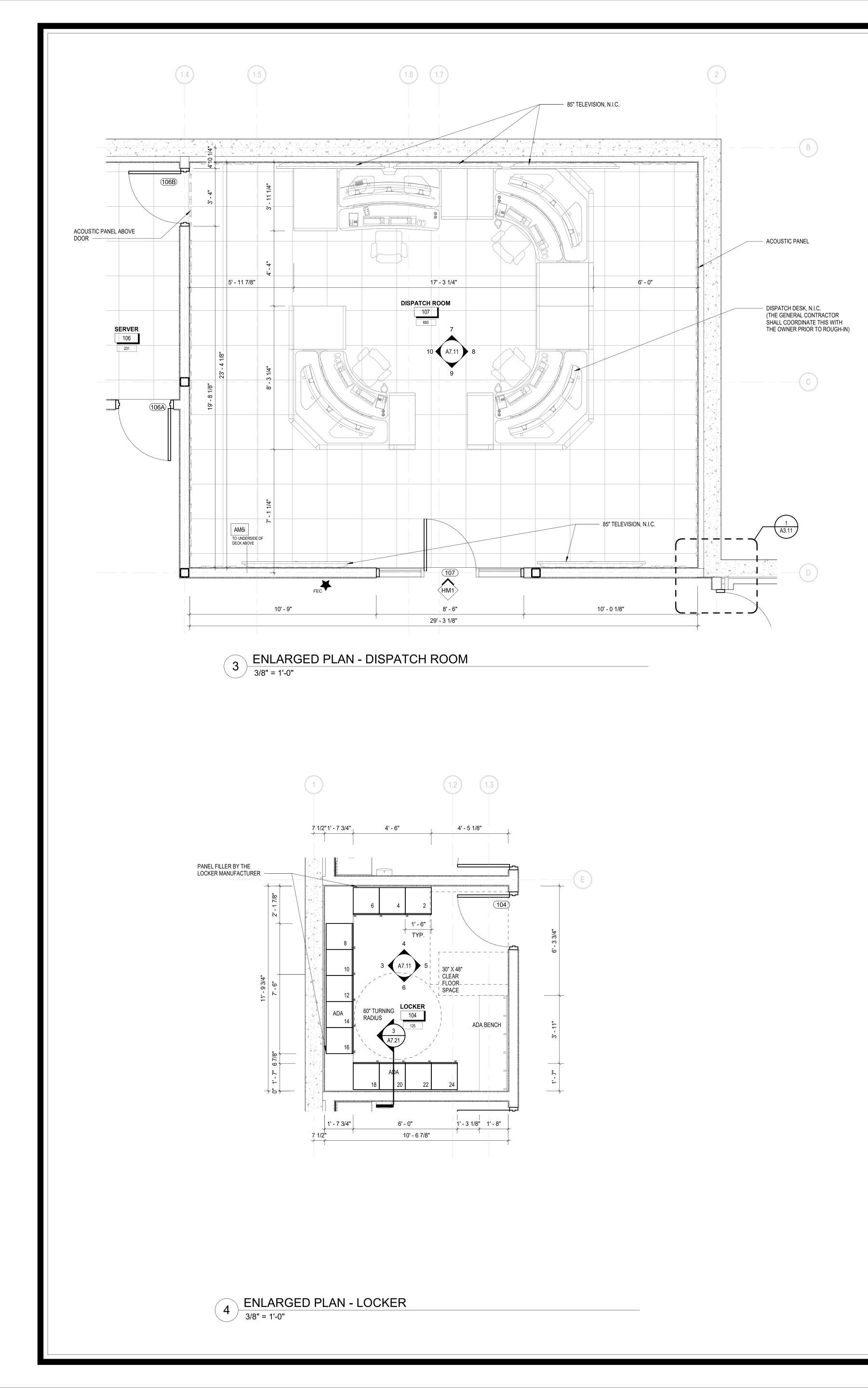
ELEVATOR DOOR HEAD DETAIL (5) / 3" = 1'-0"

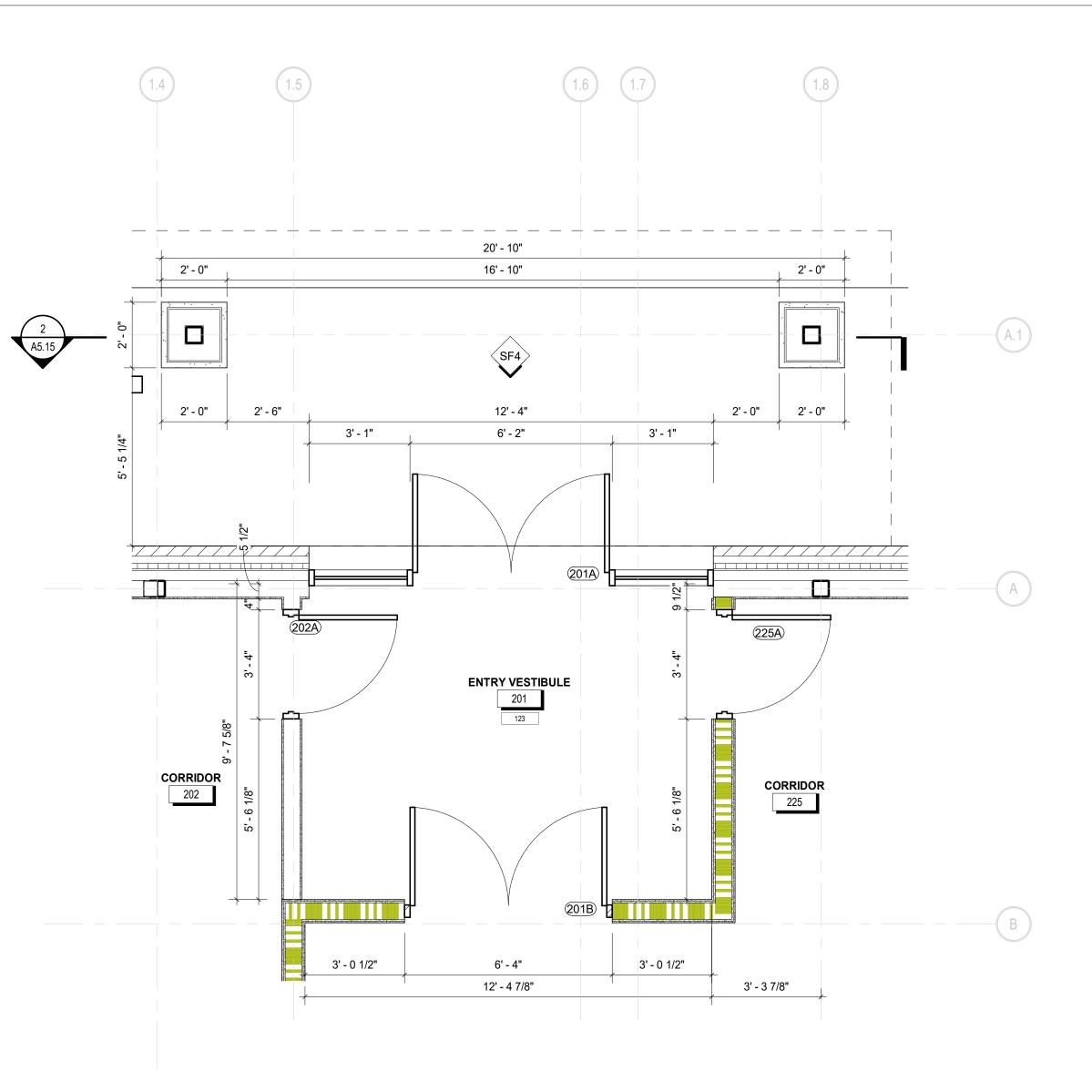




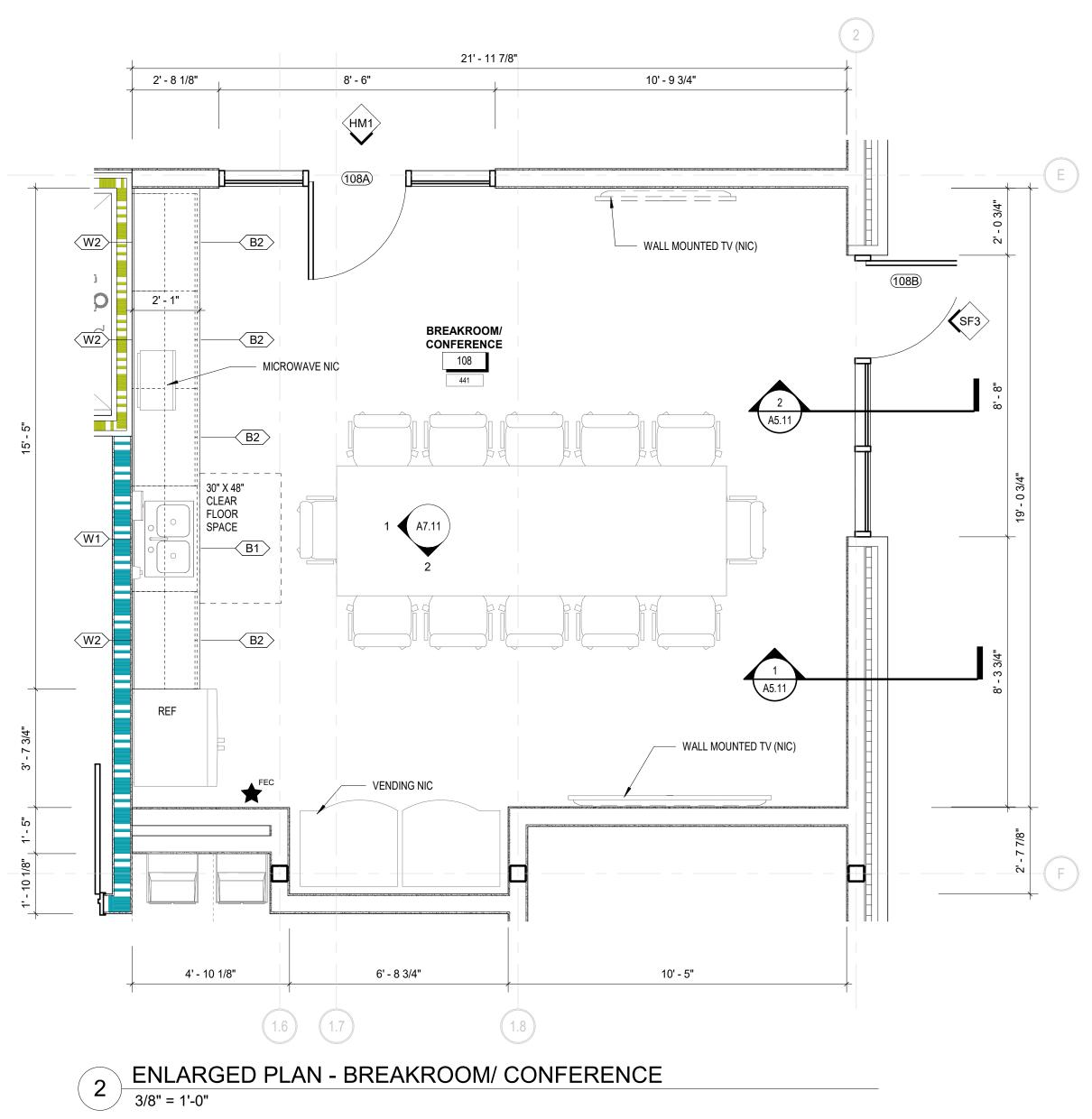
3 PIT - ELEVATOR PLAN 3/8" = 1'-0"











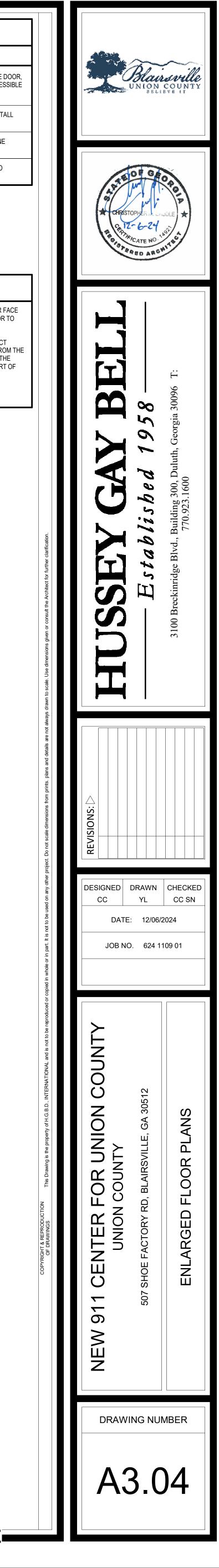
| | CASEWORK LEGEND |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------|
| TAG | DESCRIPTION |
| B1 | 39"W x 34"T x 24"D - ADA BASE CABINET SINK CABINET W/ DOUBLE DOO SEE PLAN VIEW FOR CLEAR SPACE AND FRONT APPROACH ACCESSIE SINK. |
| B2 | 36"W x 34"T x 24"D - DOUBLE DOOR, BASE CABINET W/ (2) TWO 6" TALL DRAWERS AND (1) ADJUSTABLE SHELF. |
| W1 | 39"W x 24"T x 12"D - WALL CABINET W/ (2) TWO DOORS AND (1) ONE ADJUSTABLE SHELF. |
| W2 | 36"W x 30"T x 12"D - WALL CABINET W/ (2) TWO DOOR AND (2) TWO ADJUSTABLE SHELVES. |
| | |

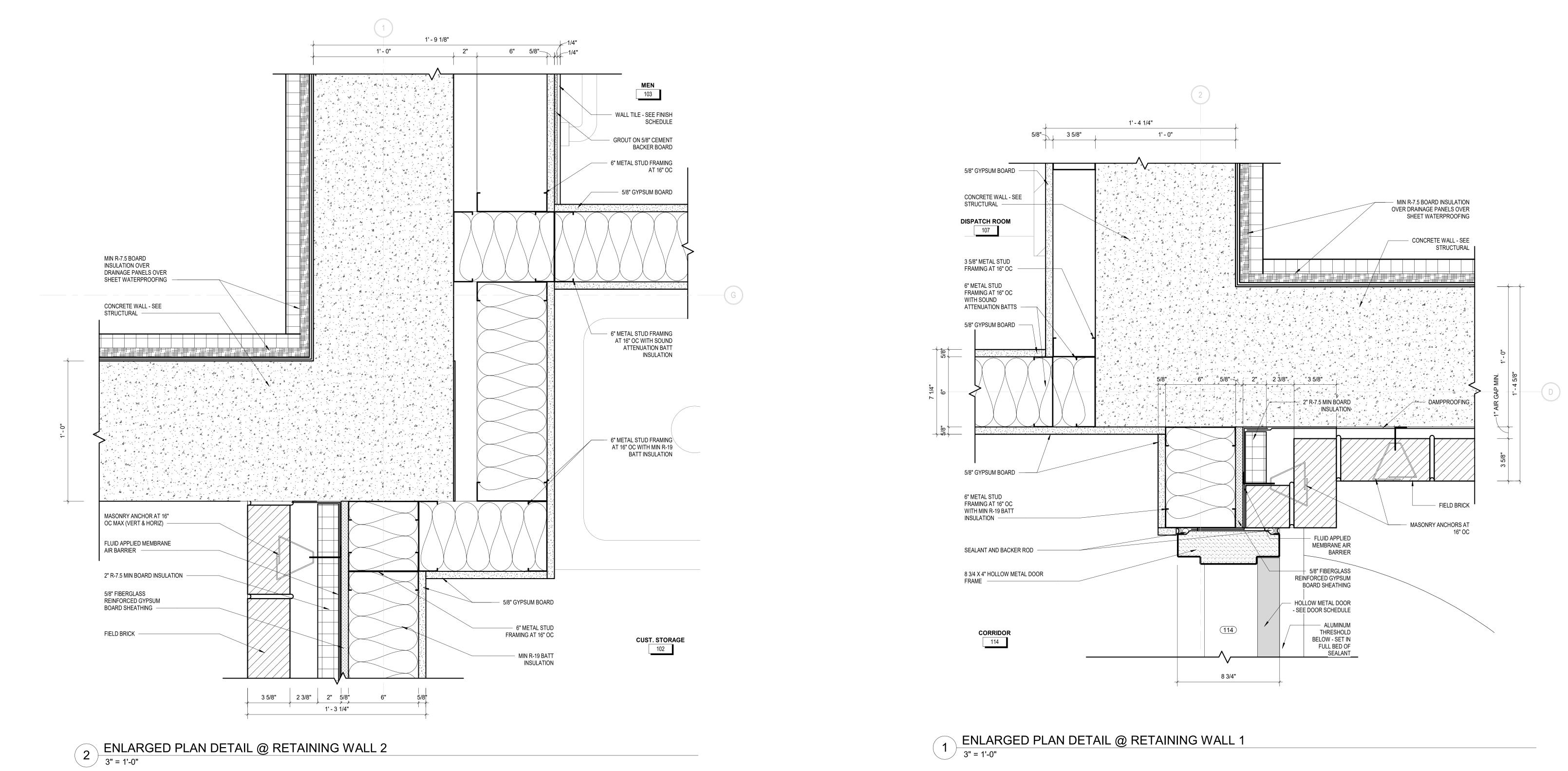
GENERAL NOTES:

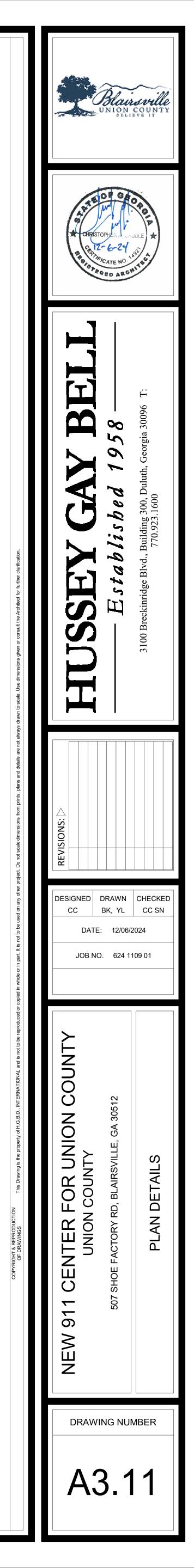
ALL CASEWORK W/ EXPOSED ENDS SHALL BE FINISHED TO MATCH

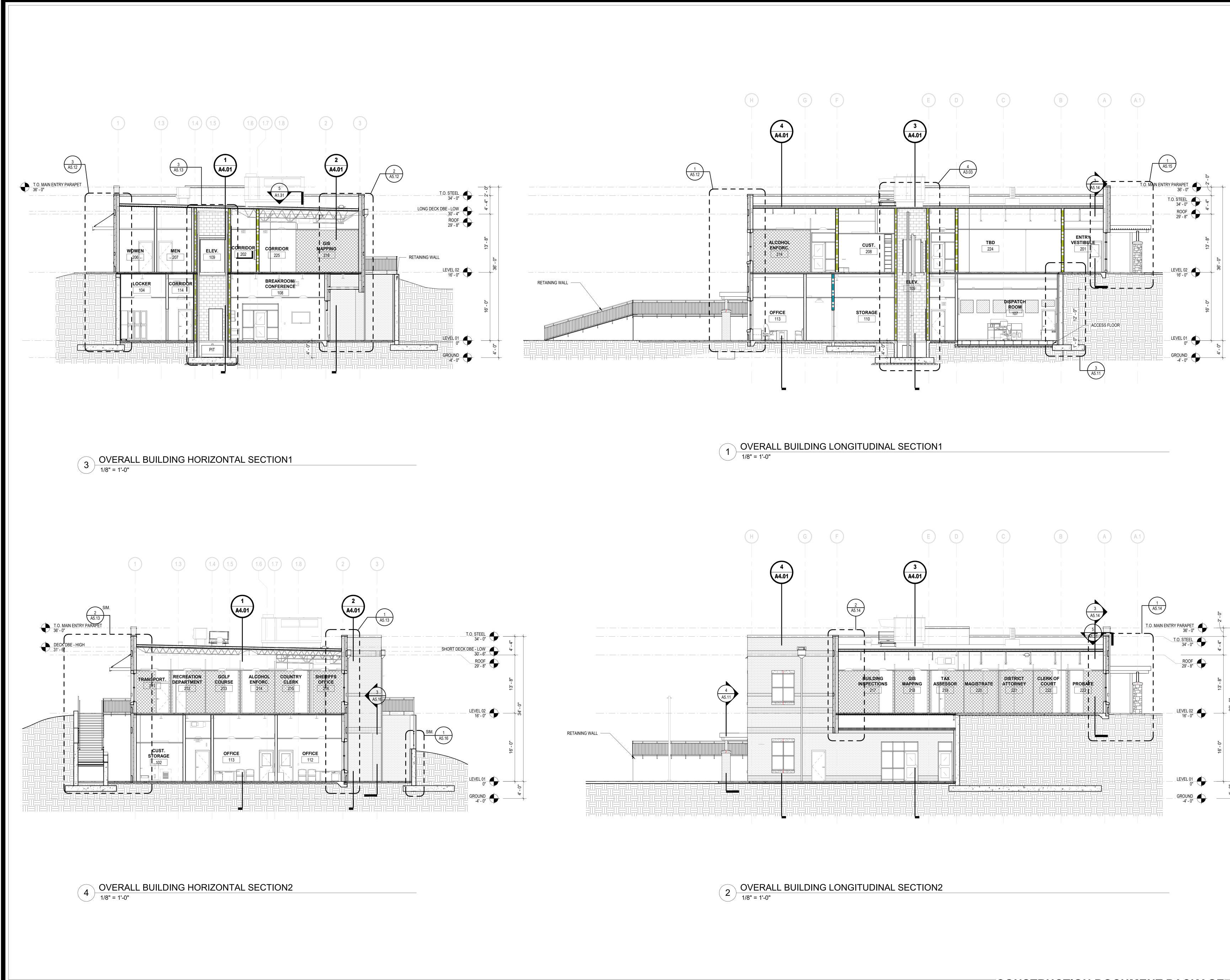
| | CASEWORK NOTES |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | ALL DIMENSIONS ARE TO FACE OF METAL STUD OR FACE OF COUNTER TOP OR FACE OF CABINET, UNLESS OTHERWISE NOTED. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING OF CABINETS |
| 2. | IF CONFLICTING INFORMATION OR INSTRUCTIONS ARE FOUND IN THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT IN WRITING. IN THE ABSENCE OF A REQUEST FOR CLARIFICATION, THE GENERAL CONTRACTOR SHALL ASSUME THE MORE EXPENSIVE OPTION AS PART OF THE BASE BID. |

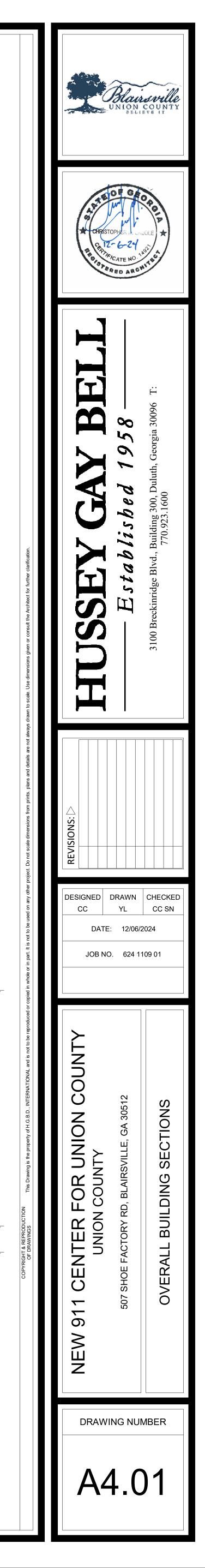
3. FOGB = FACE OF GYPSUM BOARD

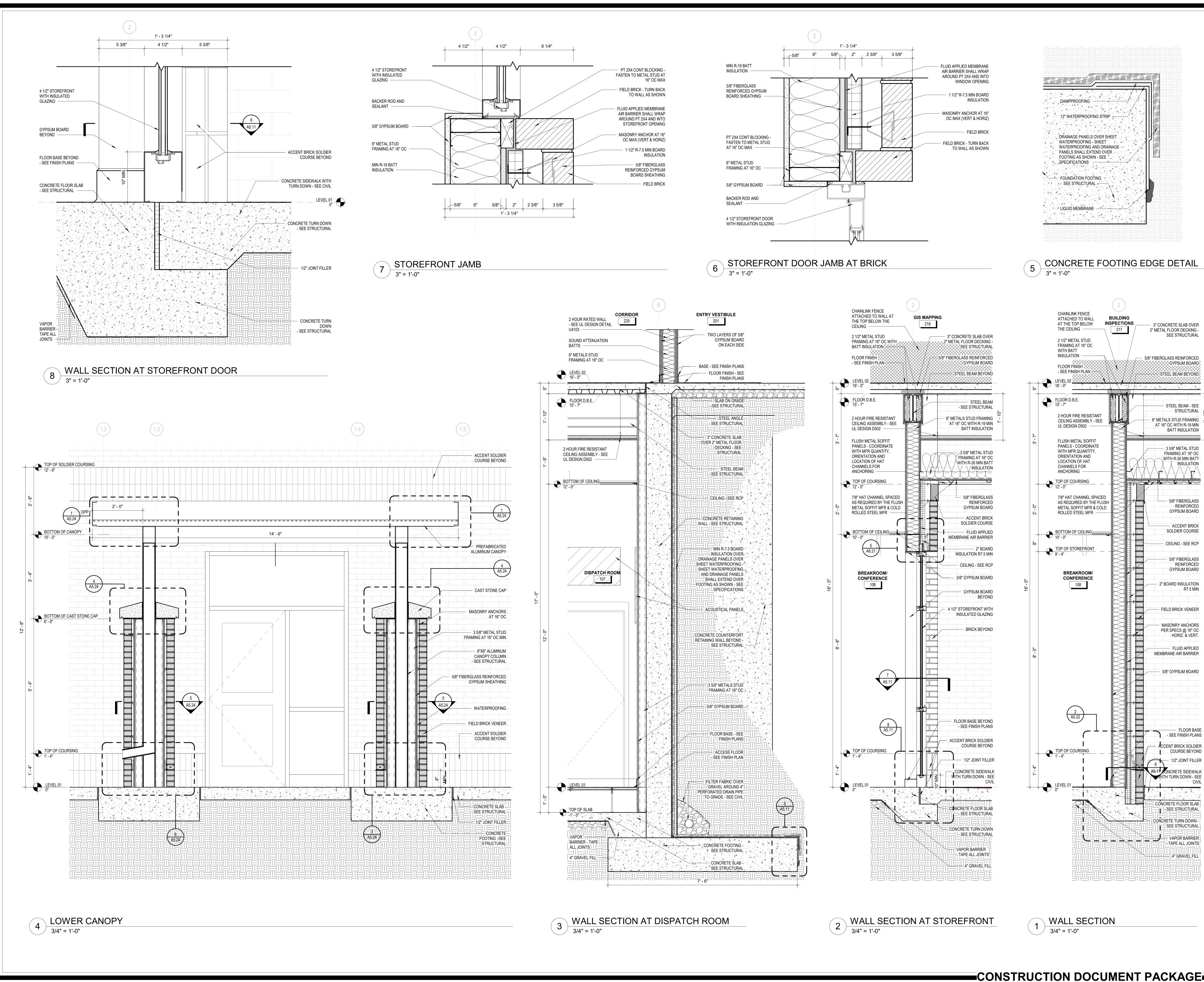




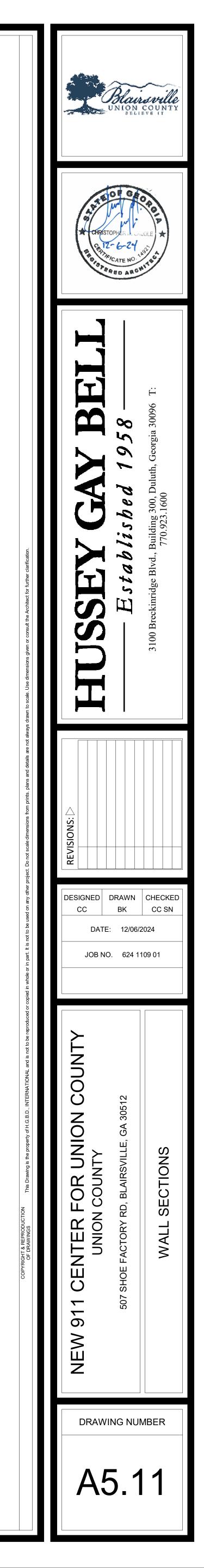




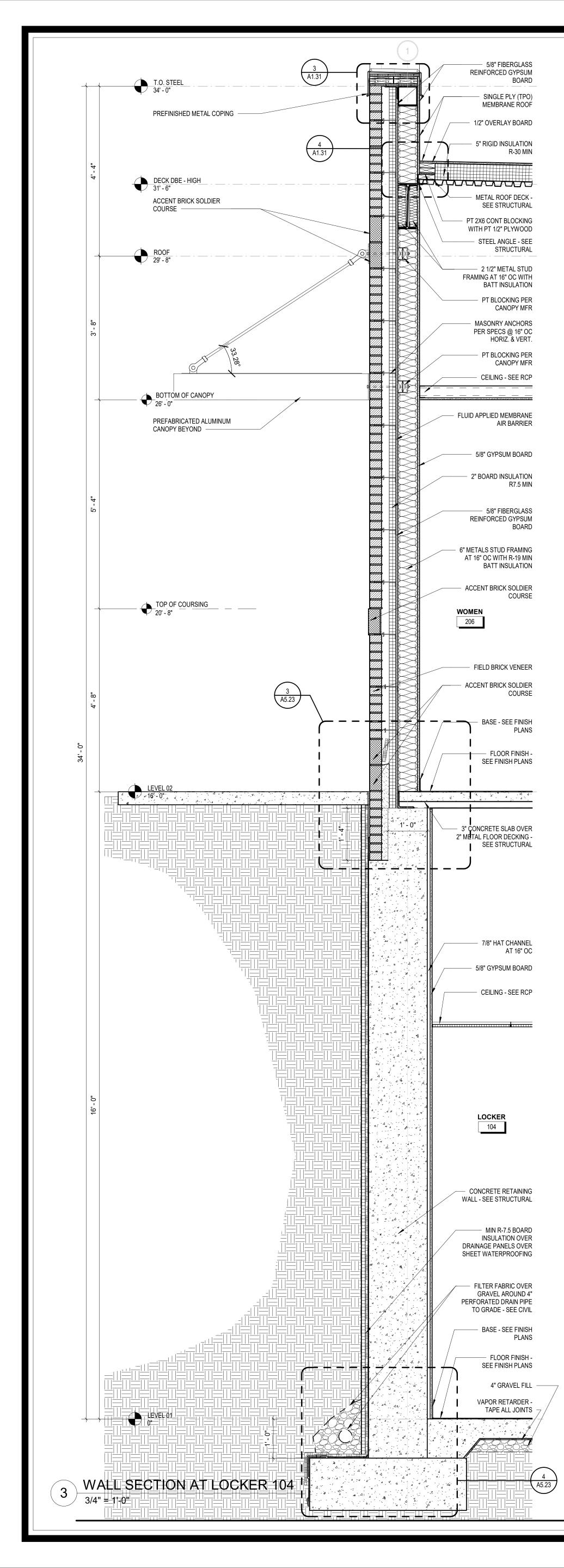


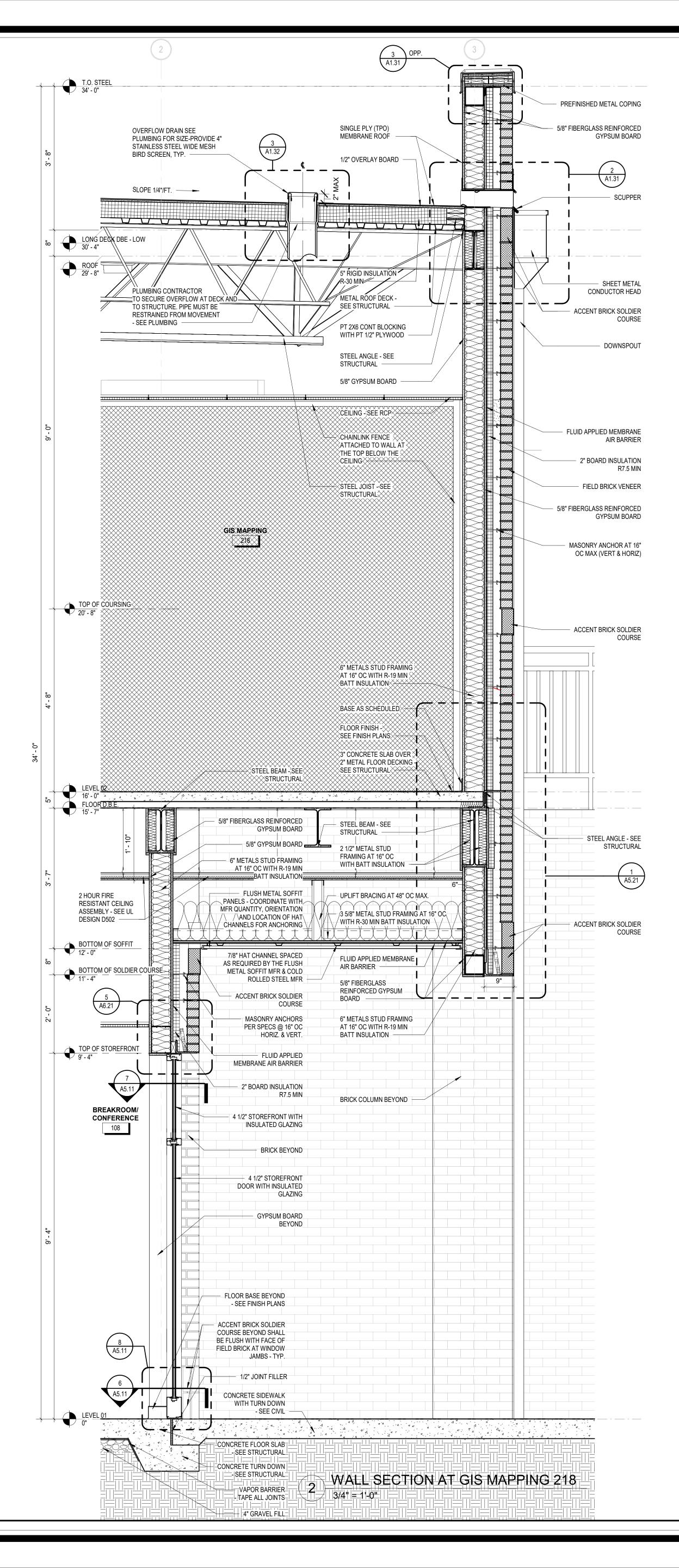


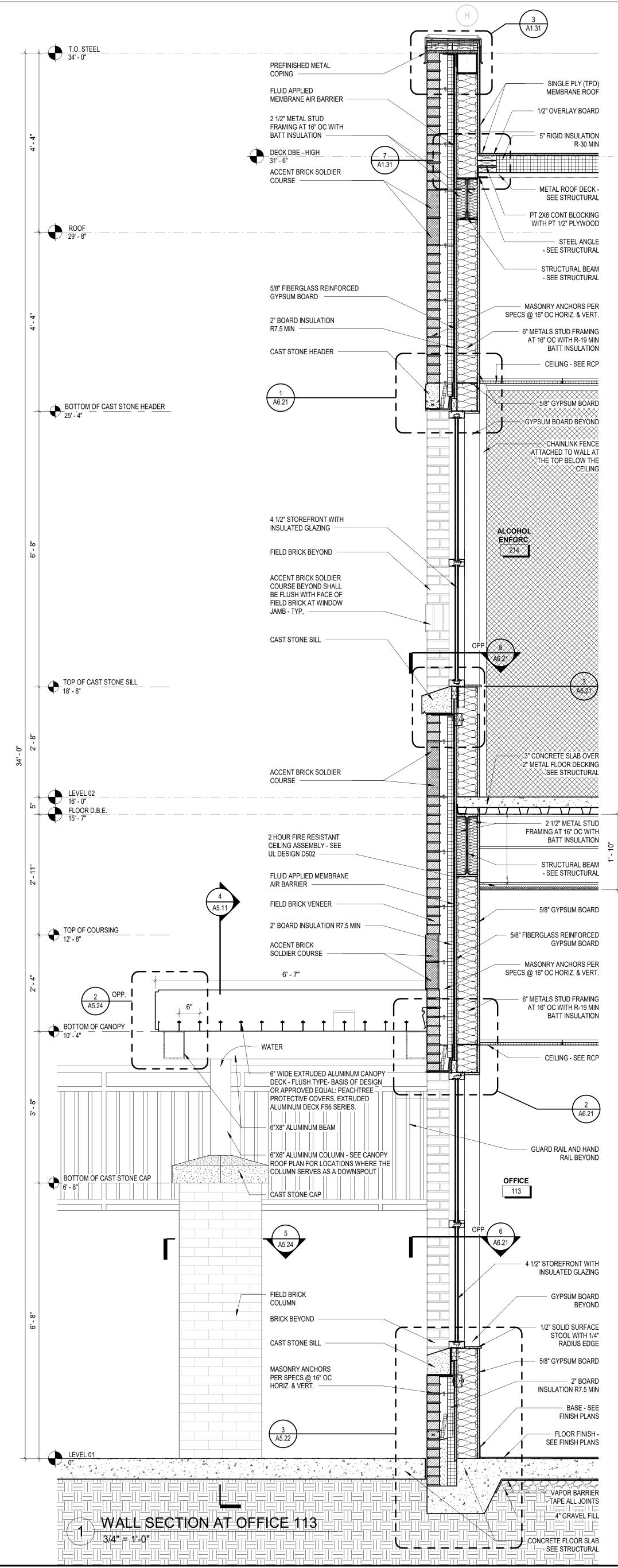
CONSTRUCTION DOCUMENT PACKAGE



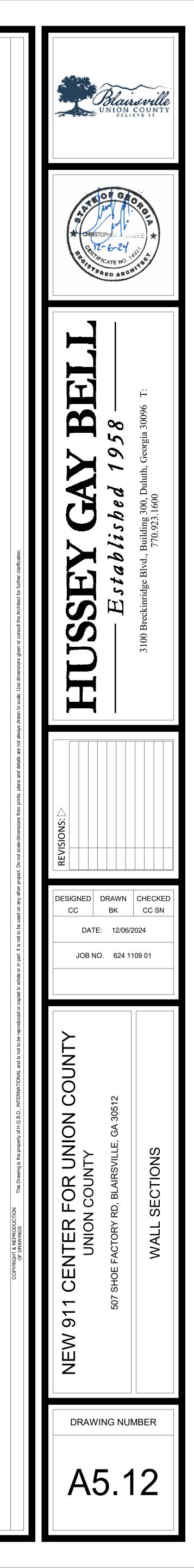
CIVIL

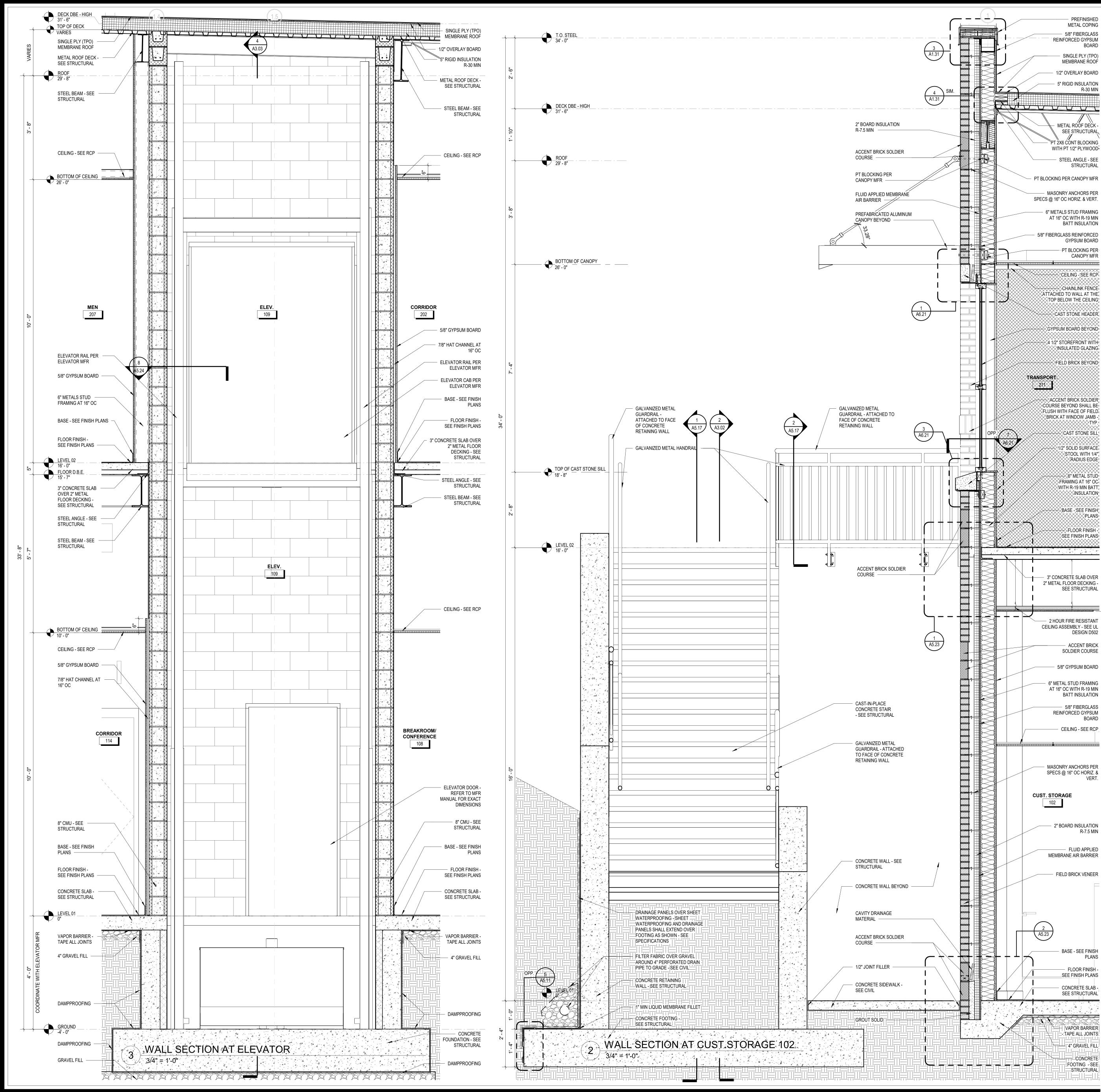


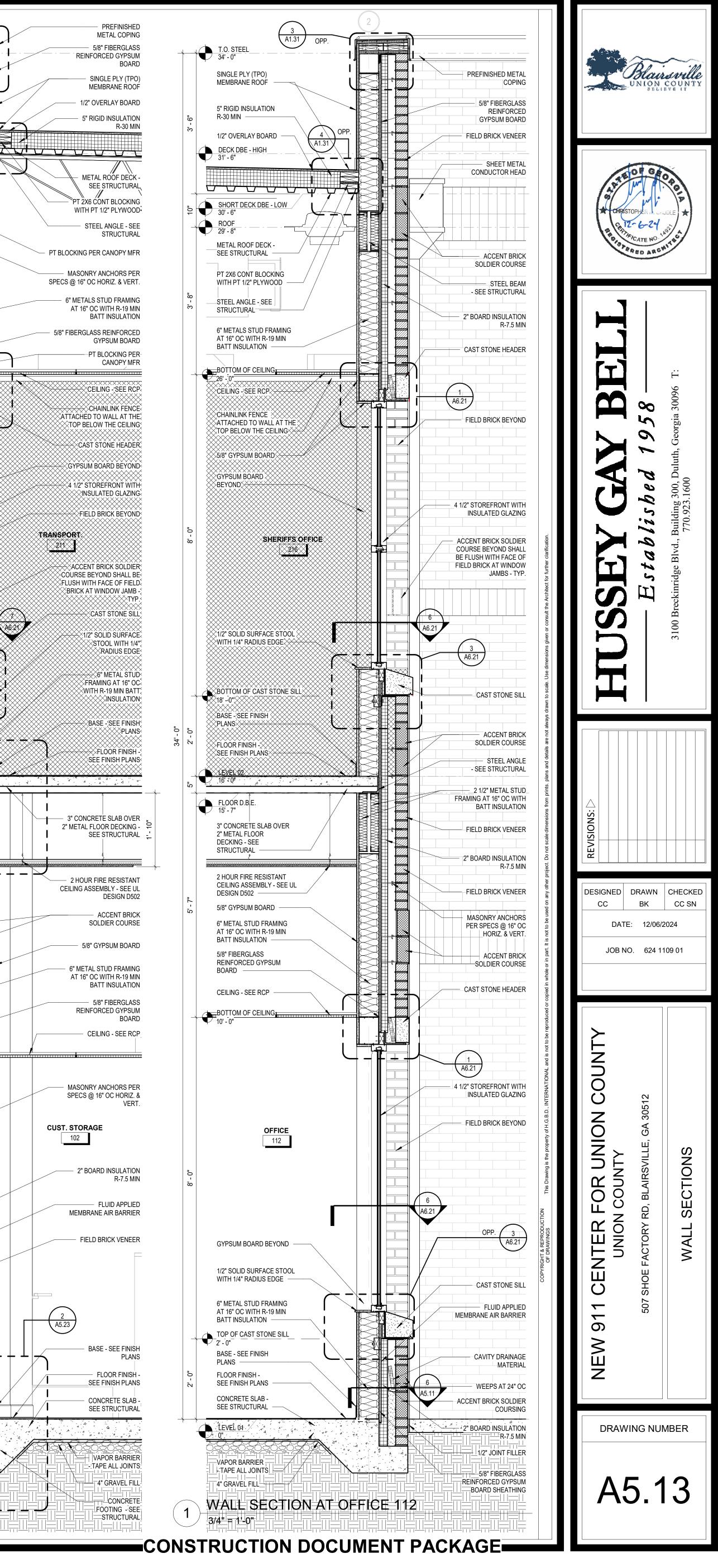


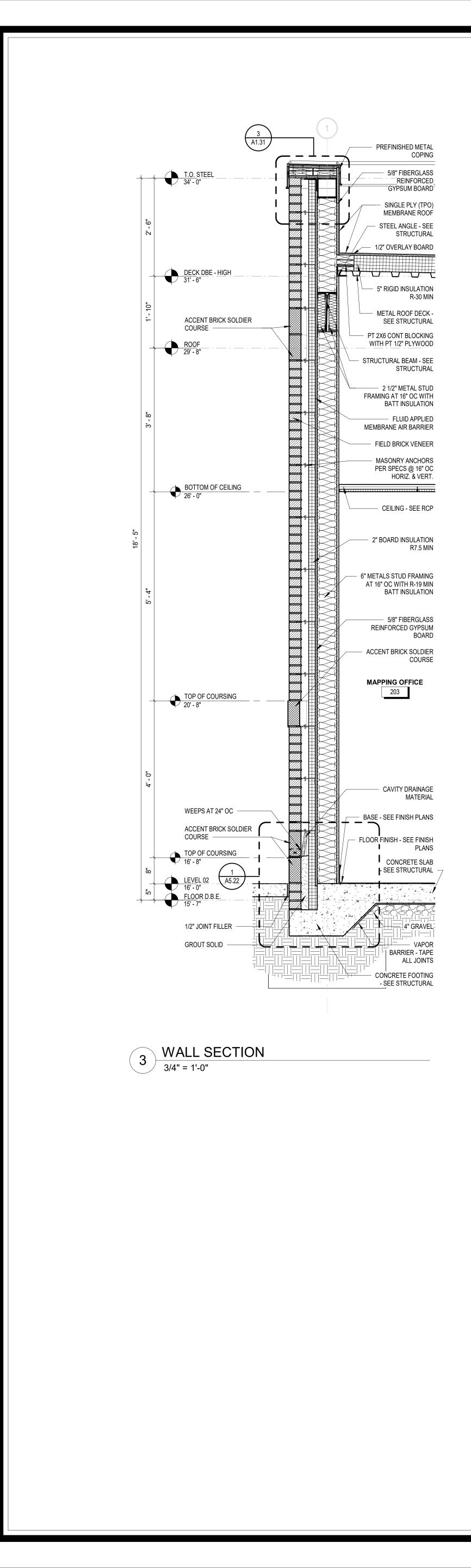


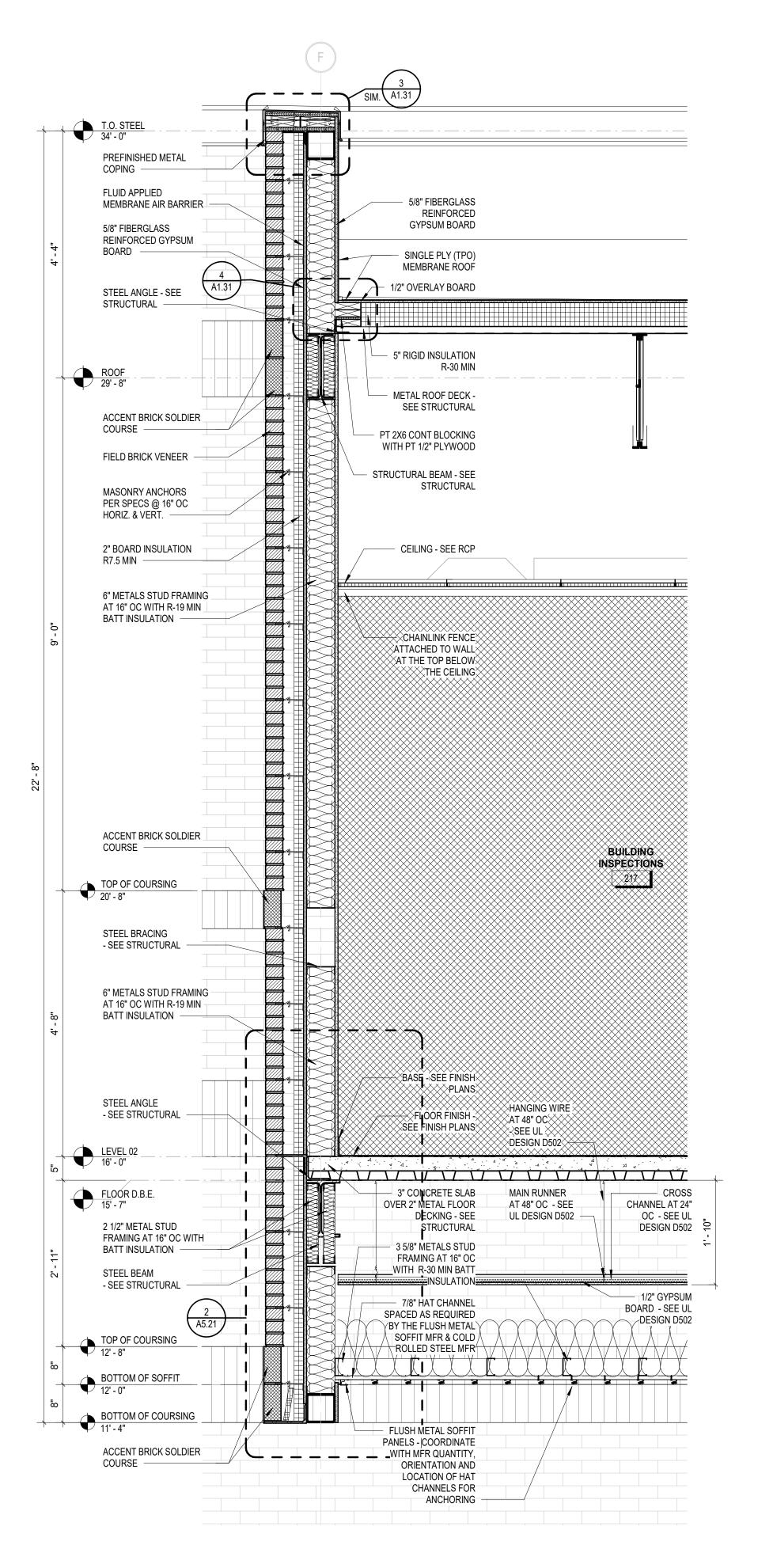
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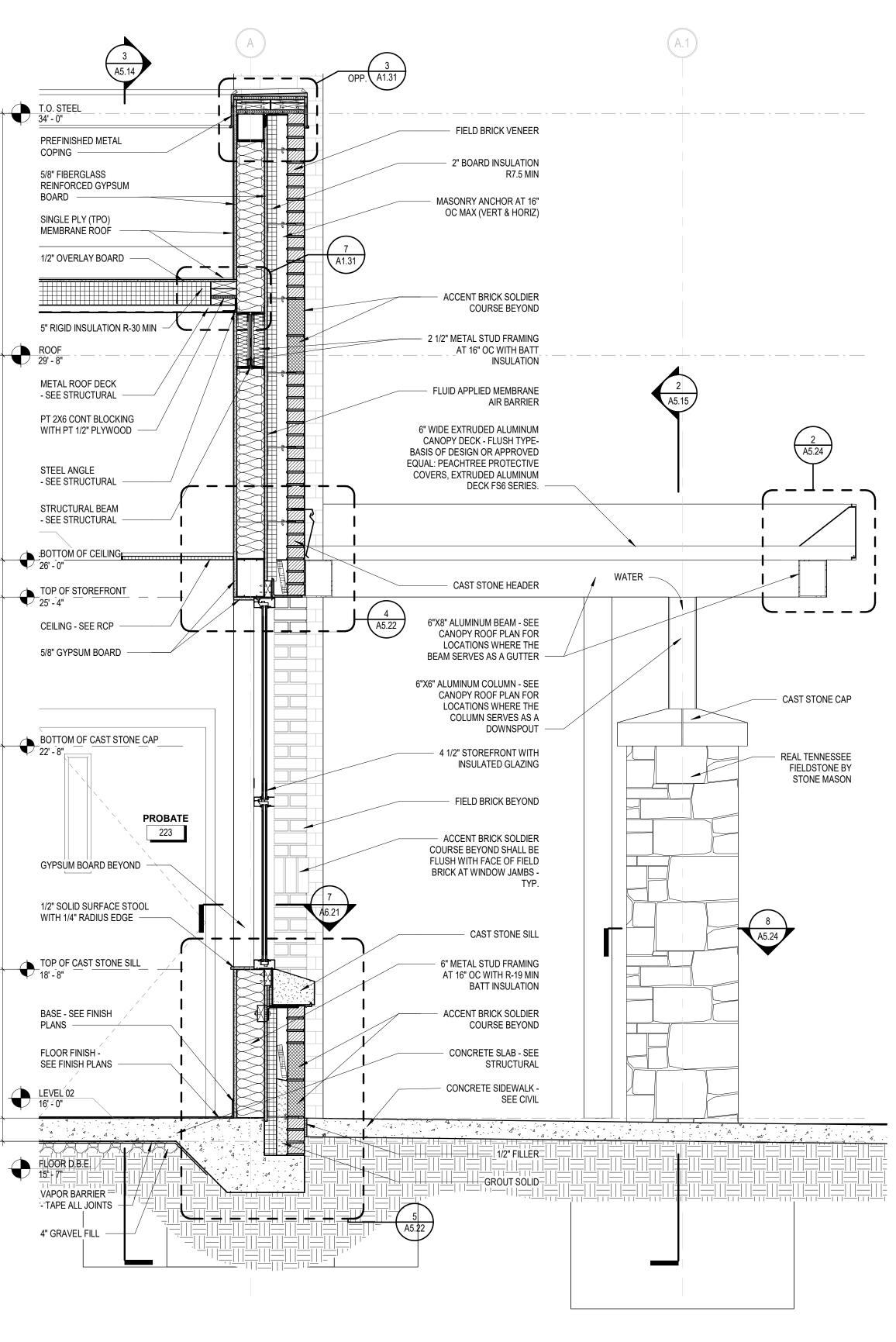








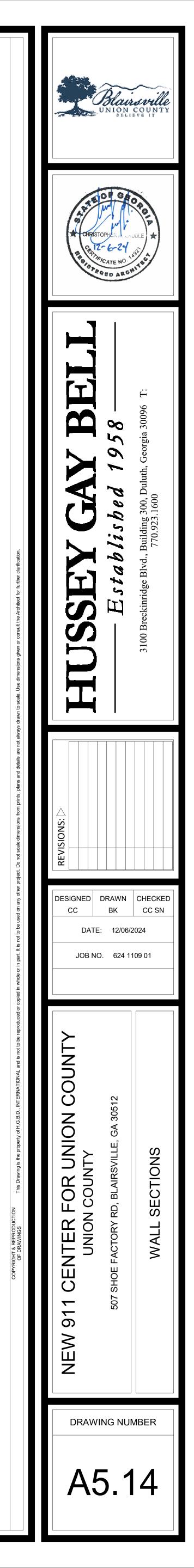


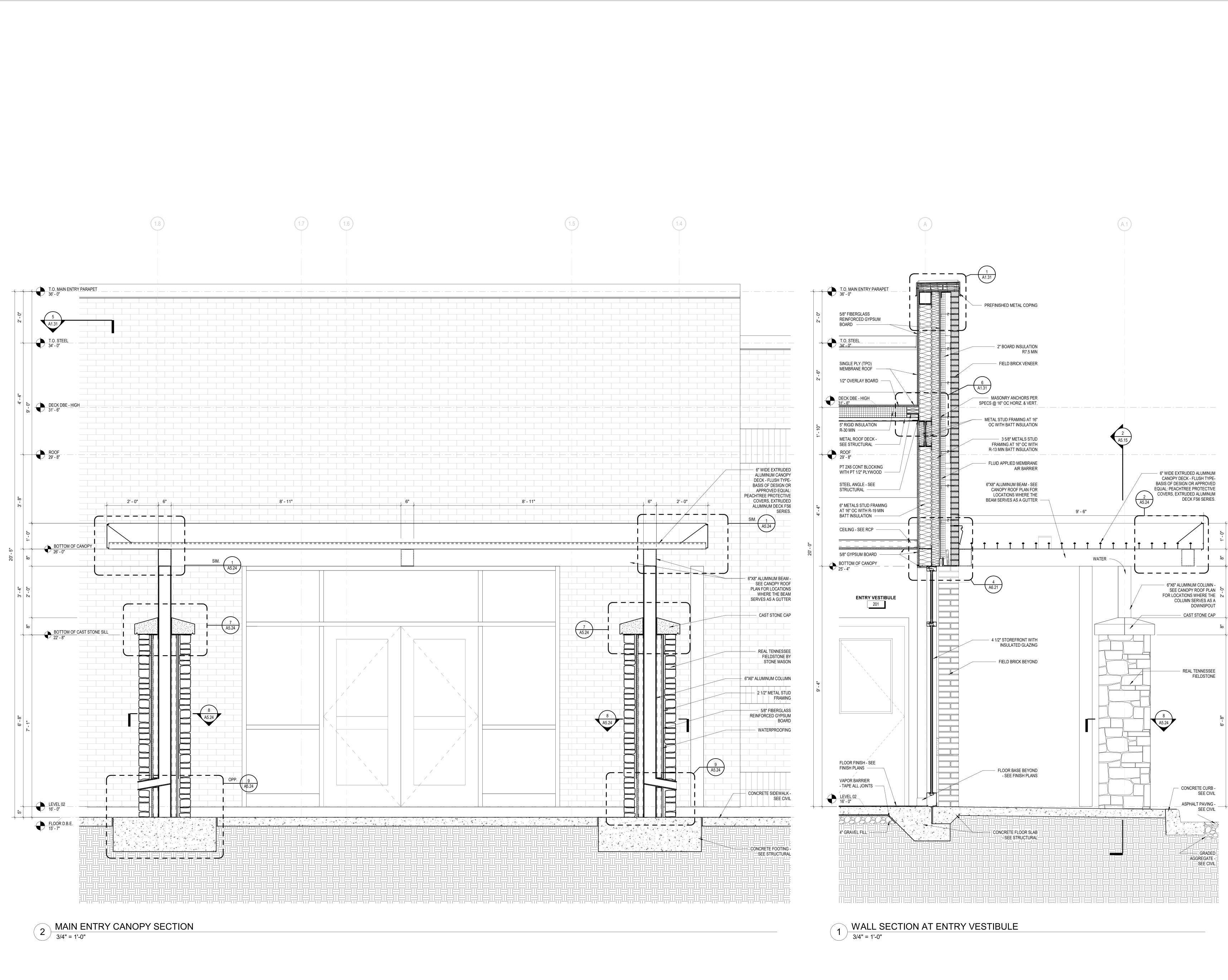


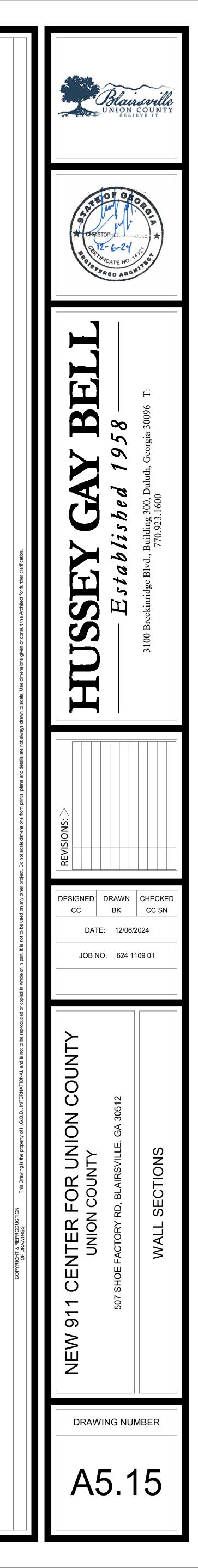
1 WALL SECTION AT PROBATE 223 3/4" = 1'-0"

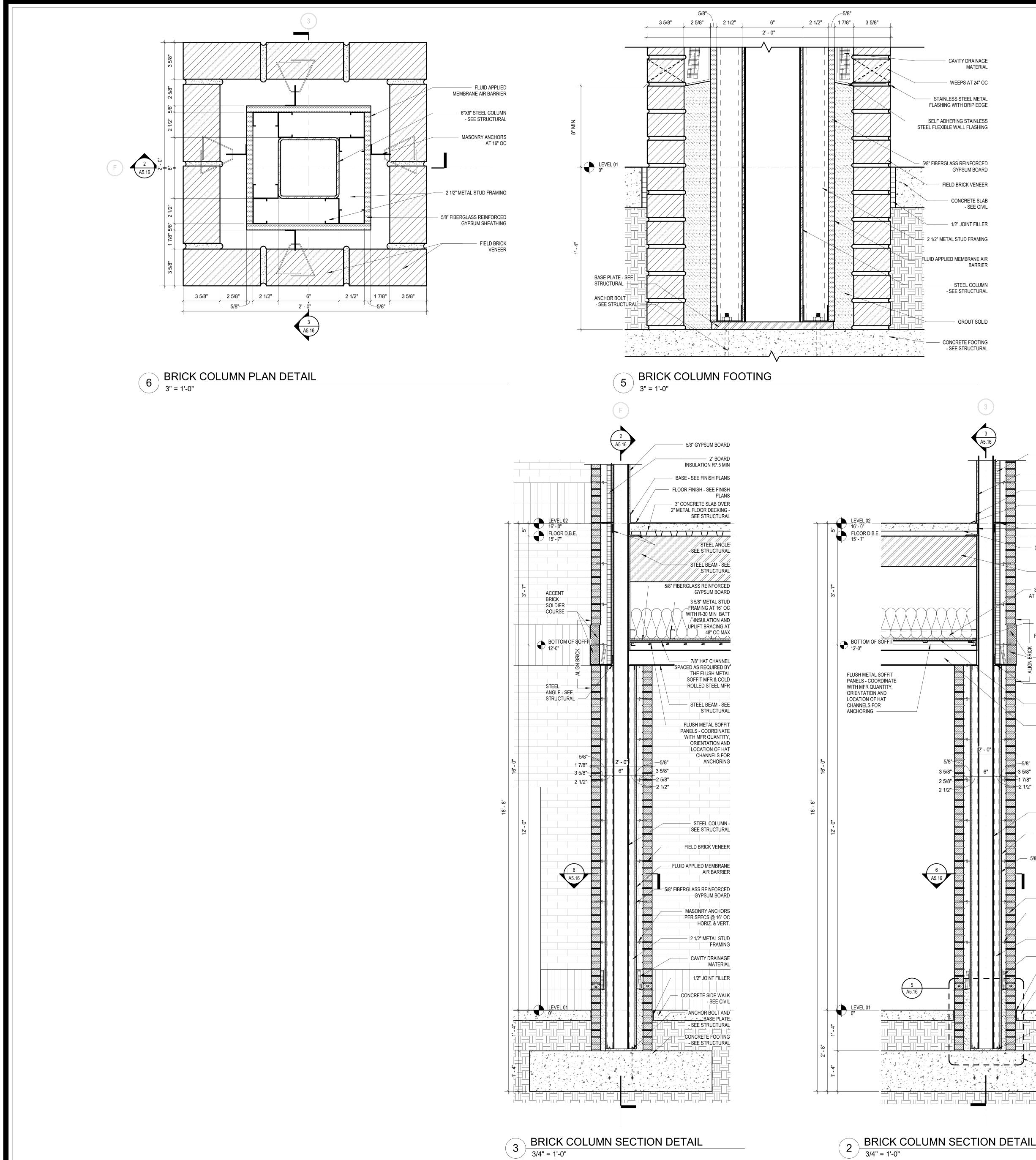
D.

-****--****----









- SEE CIVIL

GROUT SOLID

BASE - SEE FINISH PLANS - FLOOR FINISH -SEE FINISH PLANS — STEEL ANGLE - SEE STRUCTURAL - 3" CONCRETE SLAB OVER 2" METAL FLOOR DECKING -SEE STRUCTURAL - SEE STRUCTURAL - 3 5/8" METAL STUD FRAMING AT 16" OC WITH R-30 MIN BATT INSULATION AND UPLIFT BRACING AT 48" OC MAX 7/8" HAT CHANNEL SPACED AS REQUIRED BY THE FLUSH METAL SOFFIT MFR & COLD ROLLED STEEL MFR - ACCENT BRICK SOLDIER COURSE STEEL ANGLE- SEE STRUCTURAL

— 2" BOARD

INSULATION R7.5 MIN

5/8" GYPSUM BOARD

- 5/8" FIBERGLASS REINFORCED GYPSUM BOARD STEEL BEAM - SEE STRUCTURAL

MATERIAL

- 1/2" JOINT FILLER

-3 5/8" -1 7/8" -2 1/2" - STEEL COLUMN -SEE STRUCTURAL - FLUID APPLIED MEMBRANE AIR BARRIER - 5/8" FIBERGLASS REINFORCED GYPSUM BOARD FIELD BRICK VENEER MASONRY ANCHORS PER SPECS @ 16" OC HORIZ. & VERT. — 2 1/2" METAL STUD FRAMING - CAVITY DRAINAGE

---5/8'

- CONCRETE SIDEWALK - SEE CIVIL ANCHOR BOLT AND BASE PLATE-- SEE STRUCTURAL × 4 - 4` 7 |}4 CONCRETE FOOTING SEE STRUCTURAL

DAMPPROOFING, SHALL TURN UP AND OVER TOP OF CONCRETE WALL 1" MIN. AIR SPACE MASONRY ANCHOR AT 16" OC MAX (VERT & HORIZ) -FIELD BRICK VENEER 1 1/8" 3 5/8" 1 1/2"

GALVANIZED METAL

CAST STONE CAP

GUARDRAIL - IN-BED AND

GROUT INTO CONCRETE RETAINING WALL



5 1/2"

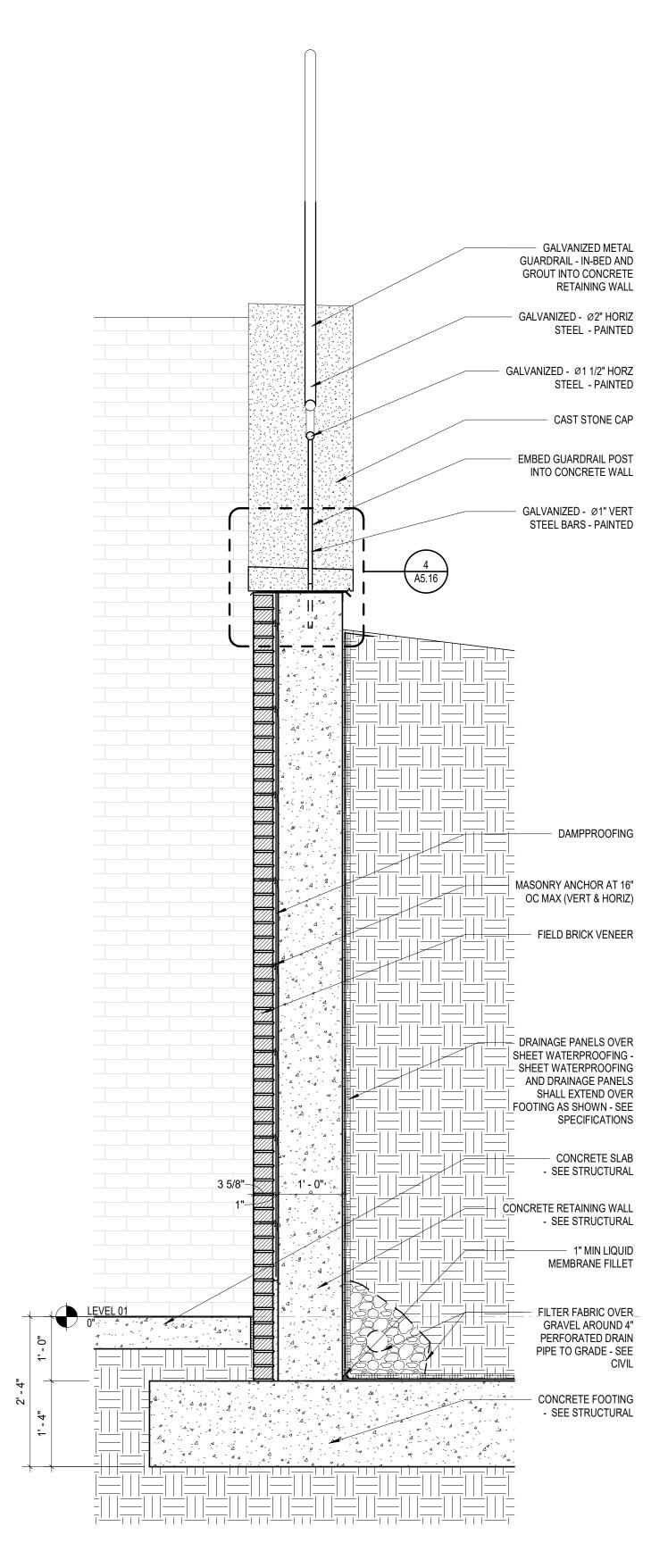
1' - 8 5/8"

1"

1' - 0"

5 1/2"

2 3/8"



SELF ADHERING

DRIP BY THE

CAST STONE

FLASHING

WITH DRIP EDGE

RETAINING WALL

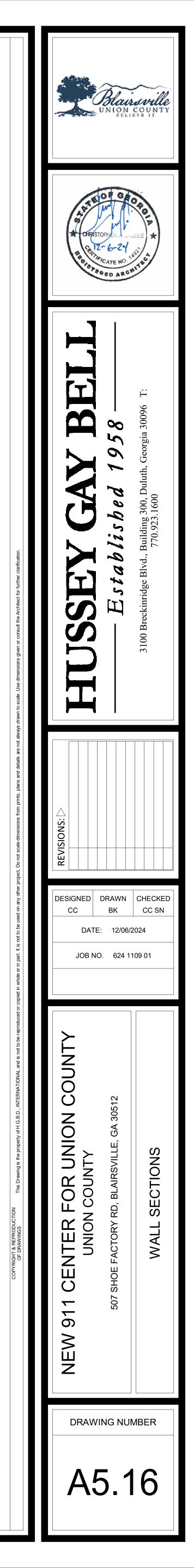
- SEE STRUCTURAL

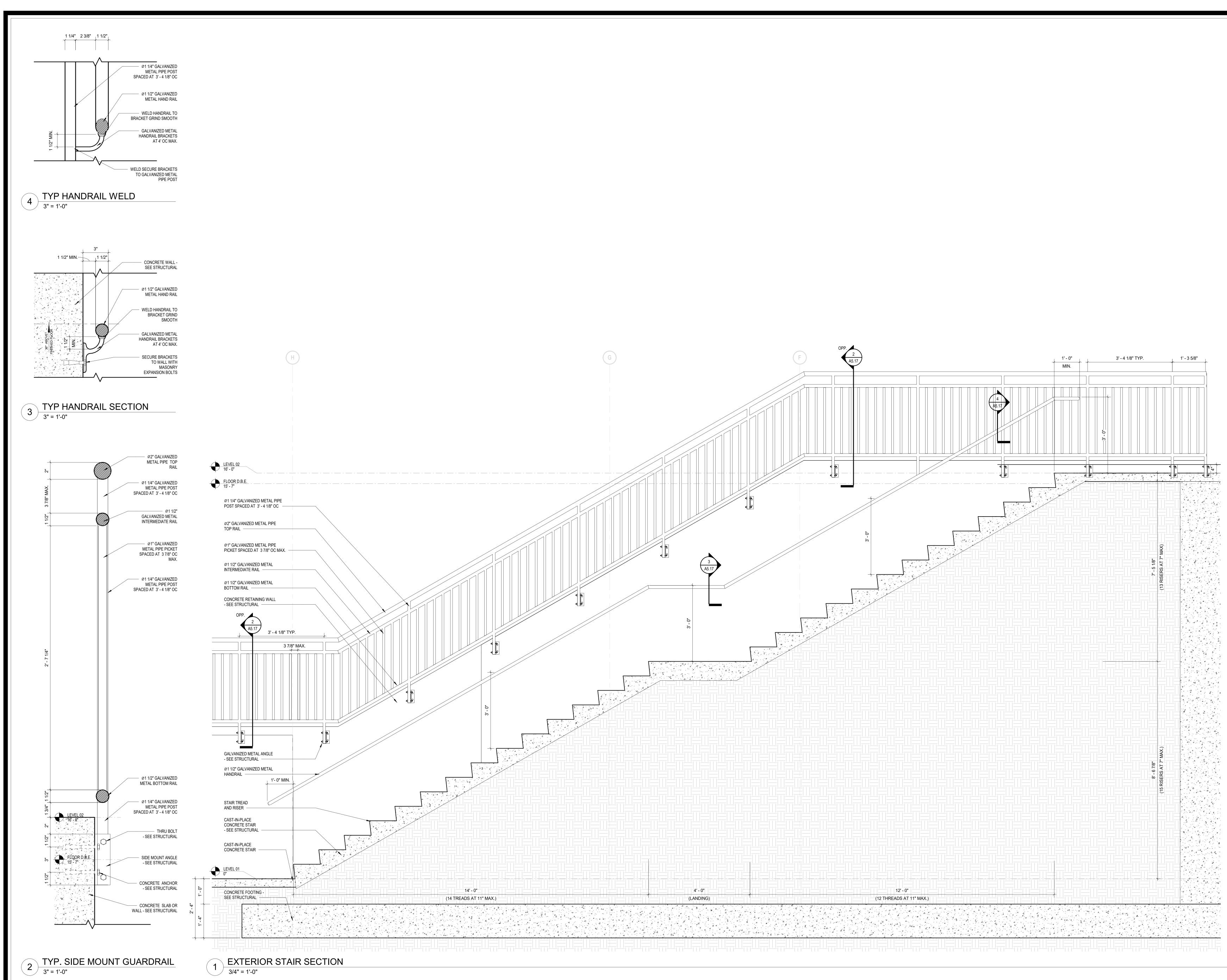
MFR

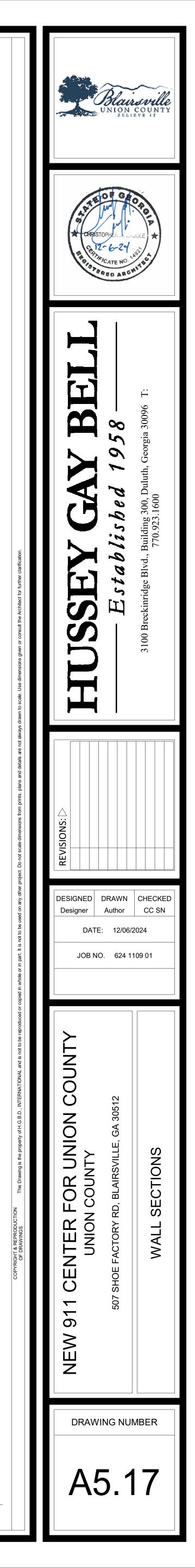
STAINLESS FLEXIBLE WALL FLASHING

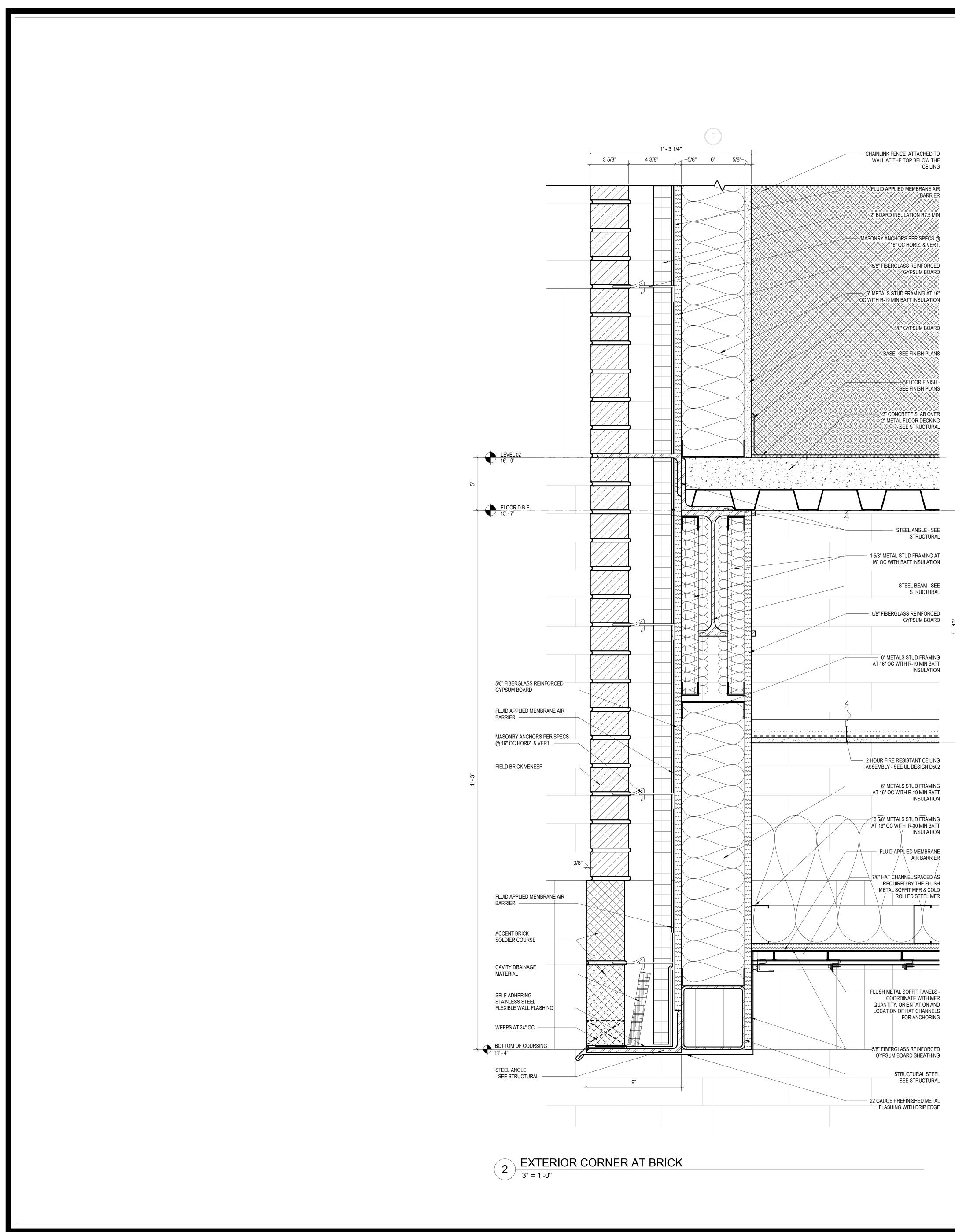
PREFINISHED METAL

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

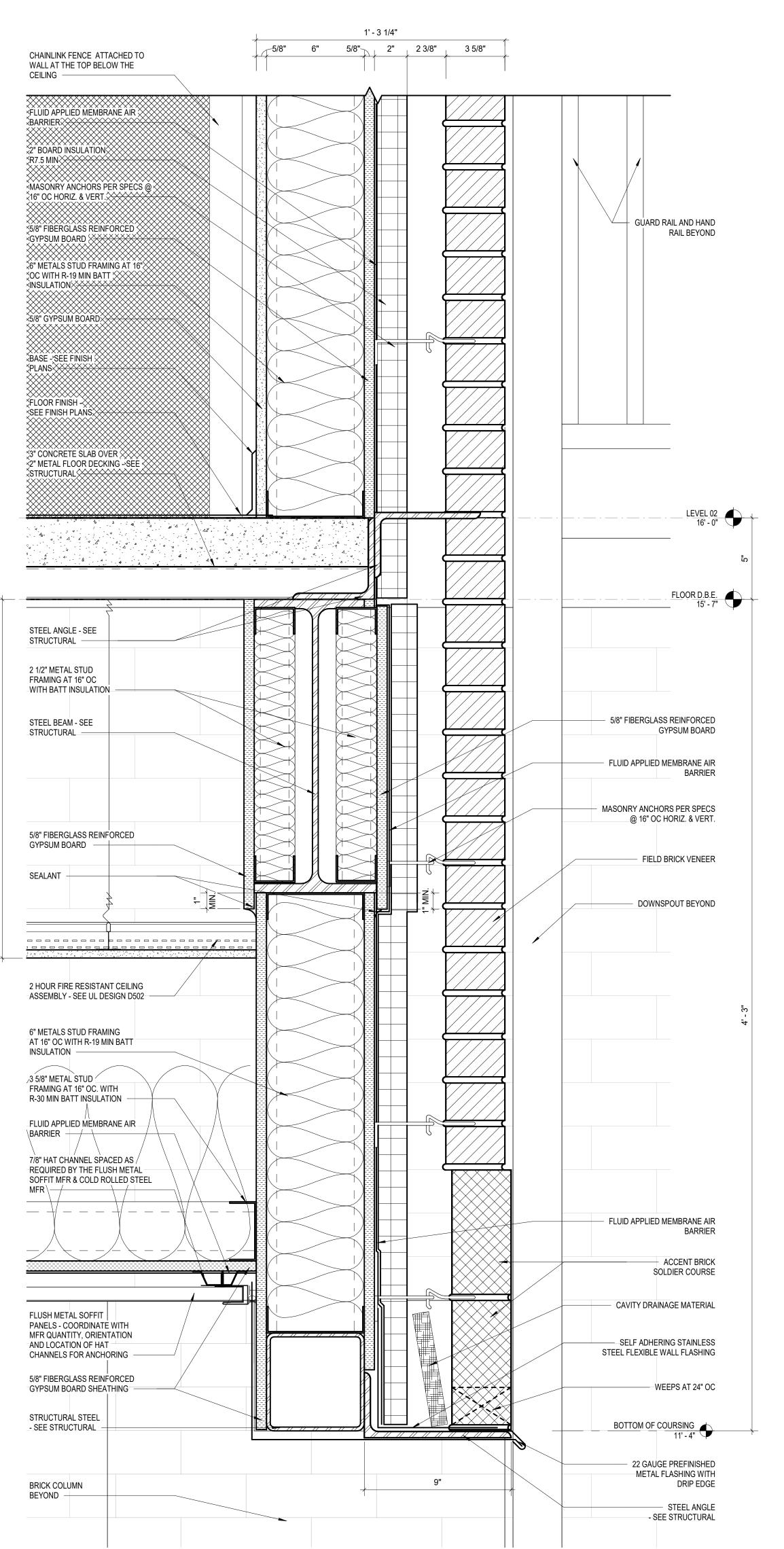


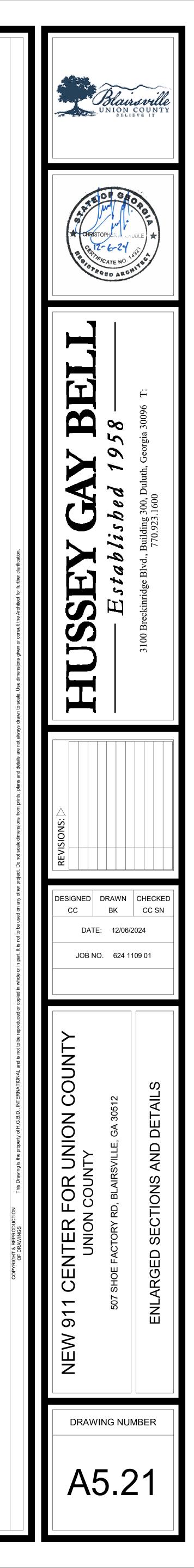


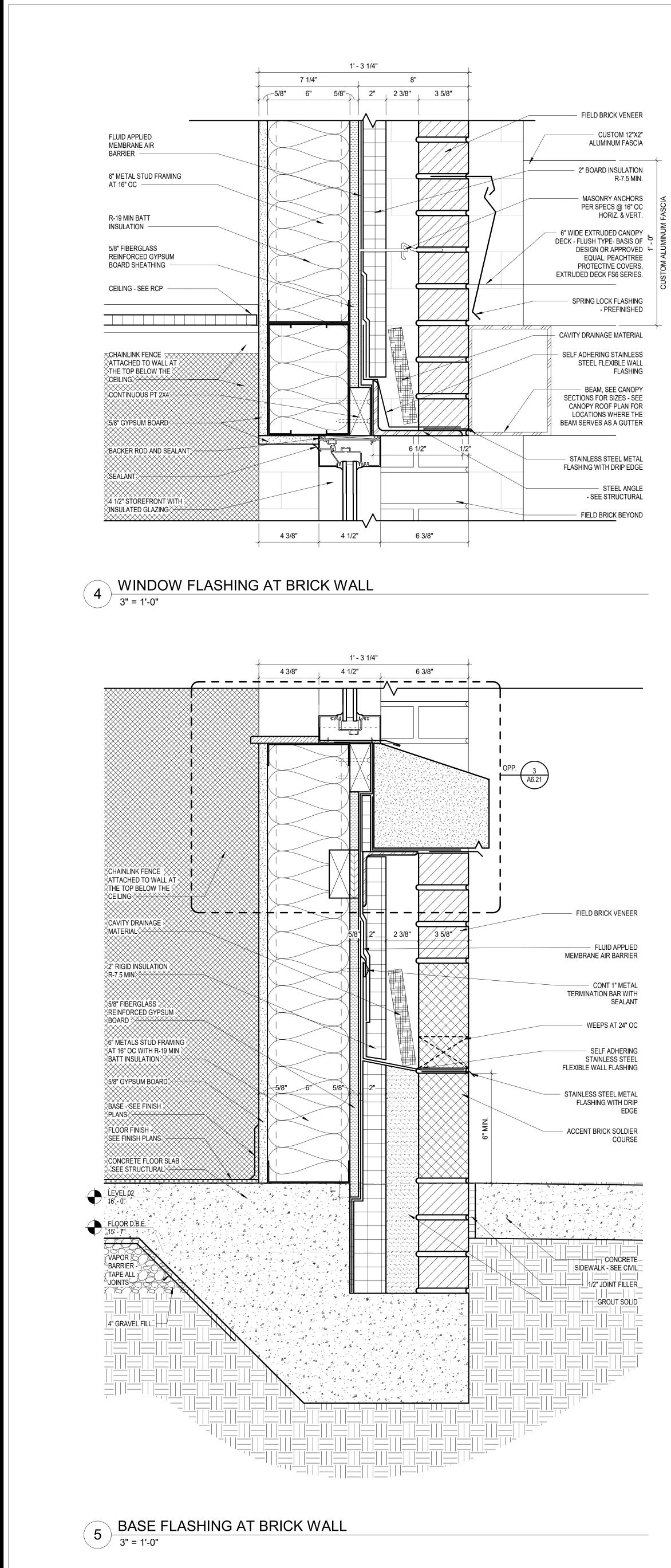




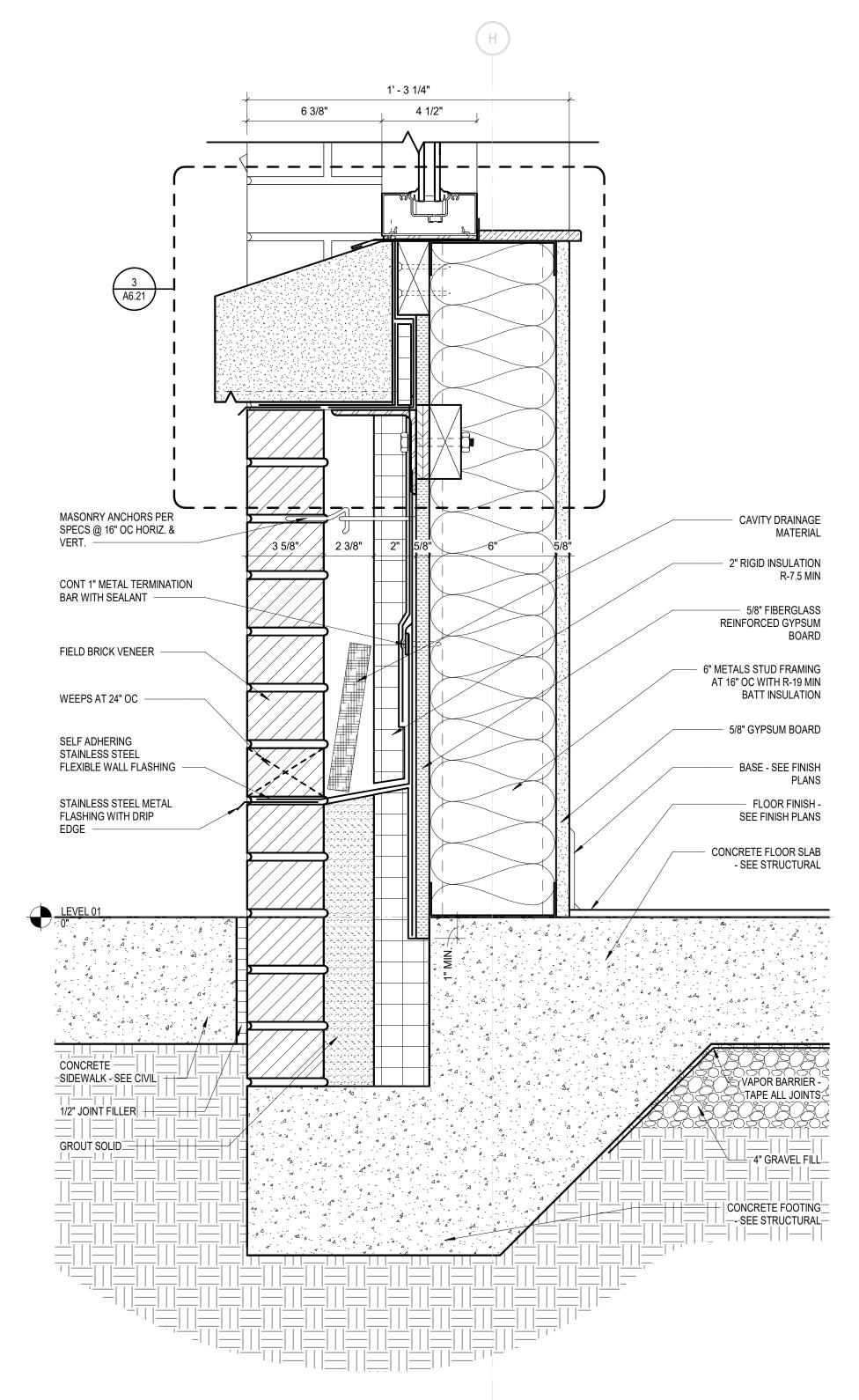


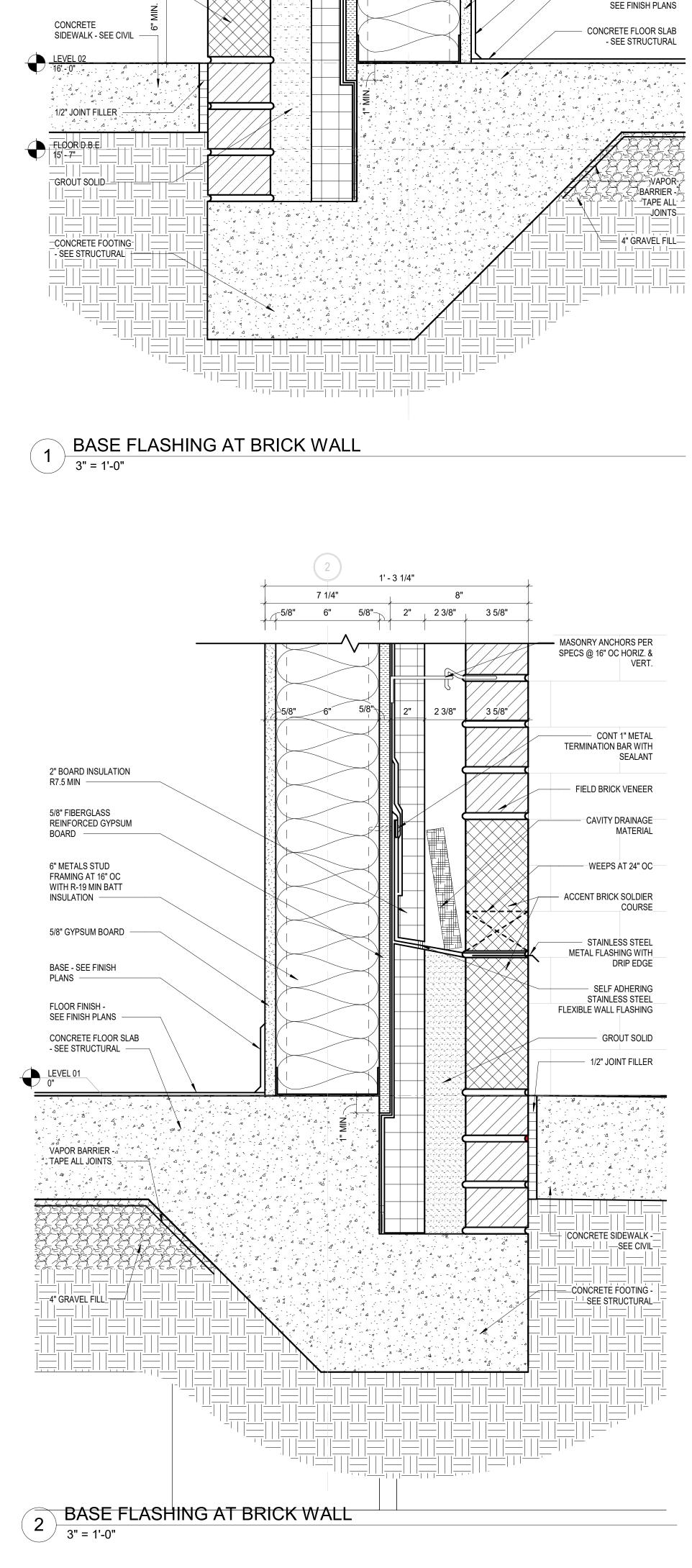






3 BASE FLASHING AT BRICK WALL 3" = 1'-0"





1' - 3 1/4"

2 3/8" 2" 5/8" 6"

+

8"

3 5/8"

FLUID APPLIED

COURSE -

CONT 1" METAL

SEALANT —

MEMBRANE AIR BARRIER

ACCENT BRICK SOLDIER

TERMINATION BAR WITH

WEEPS AT 24" OC -----

SELF ADHERING

STAINLESS STEEL

FLEXIBLE WALL FLASHING

STAINLESS STEEL METAL

FLASHING WITH DRIP

ACCENT BRICK SOLDIER

EDGE ——

COURSE —

7 1/4"

5/8"---

- CAVITY DRAINAGE

- 2" RIGID INSULATION

- 5/8" FIBERGLASS

REINFORCED GYPSUM

6" METALS STUD FRAMING

AT 16" OC WITH R-19 MIN

BATT INSULATION

- 5/8" GYPSUM BOARD

- BASE - SEE FINISH

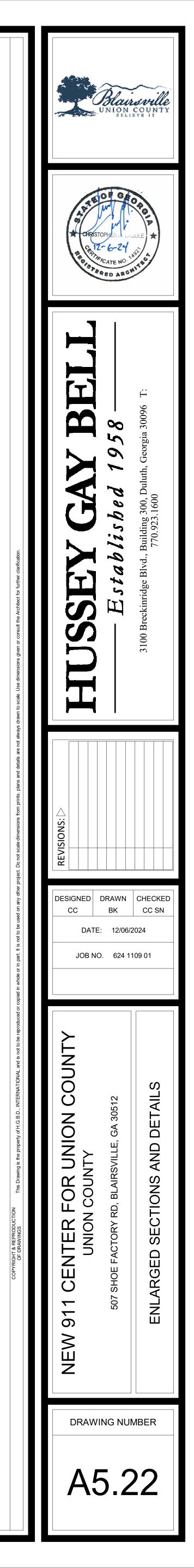
- FLOOR FINISH -

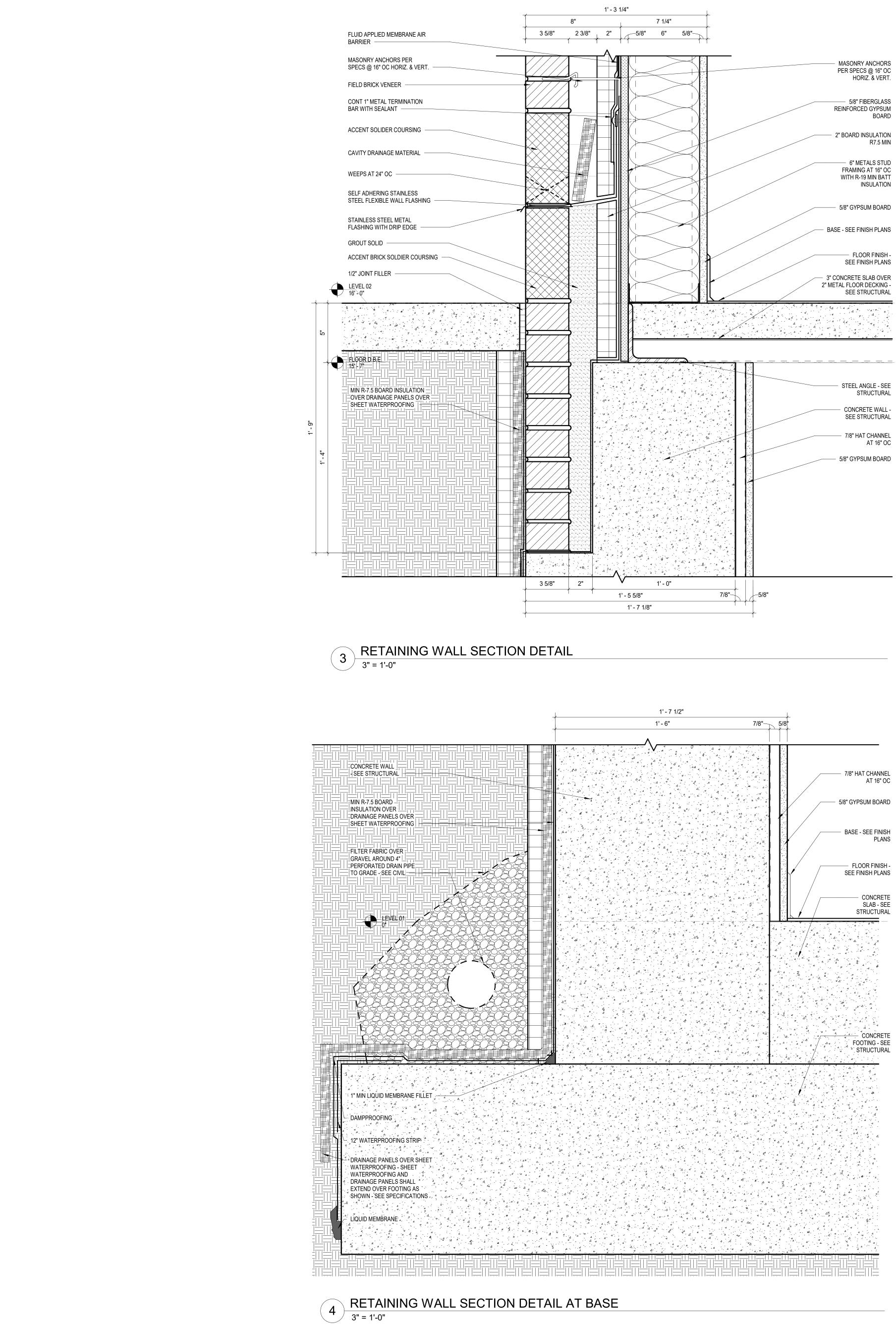
PLANS

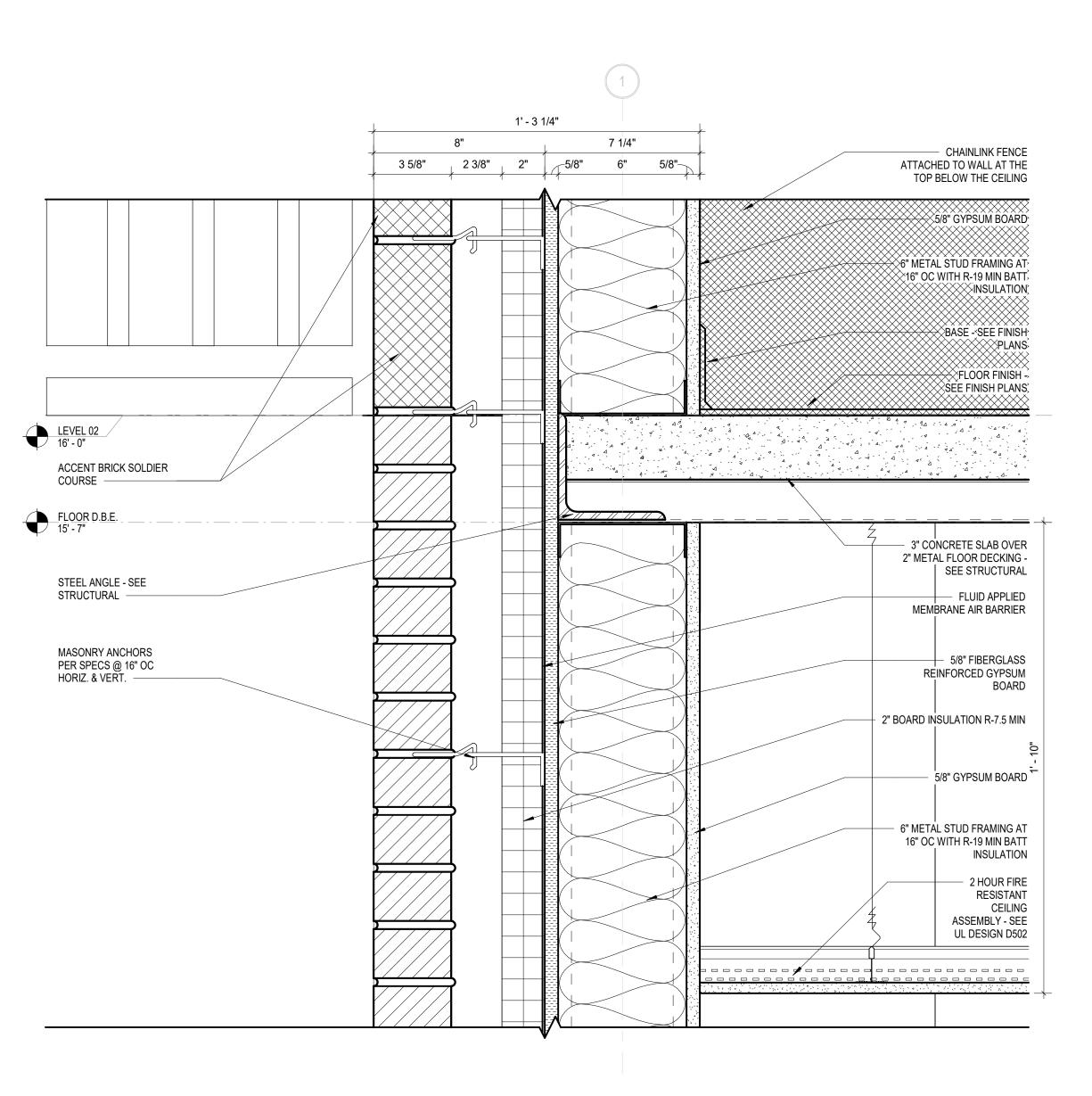
MATERIAL

R-7.5 MIN

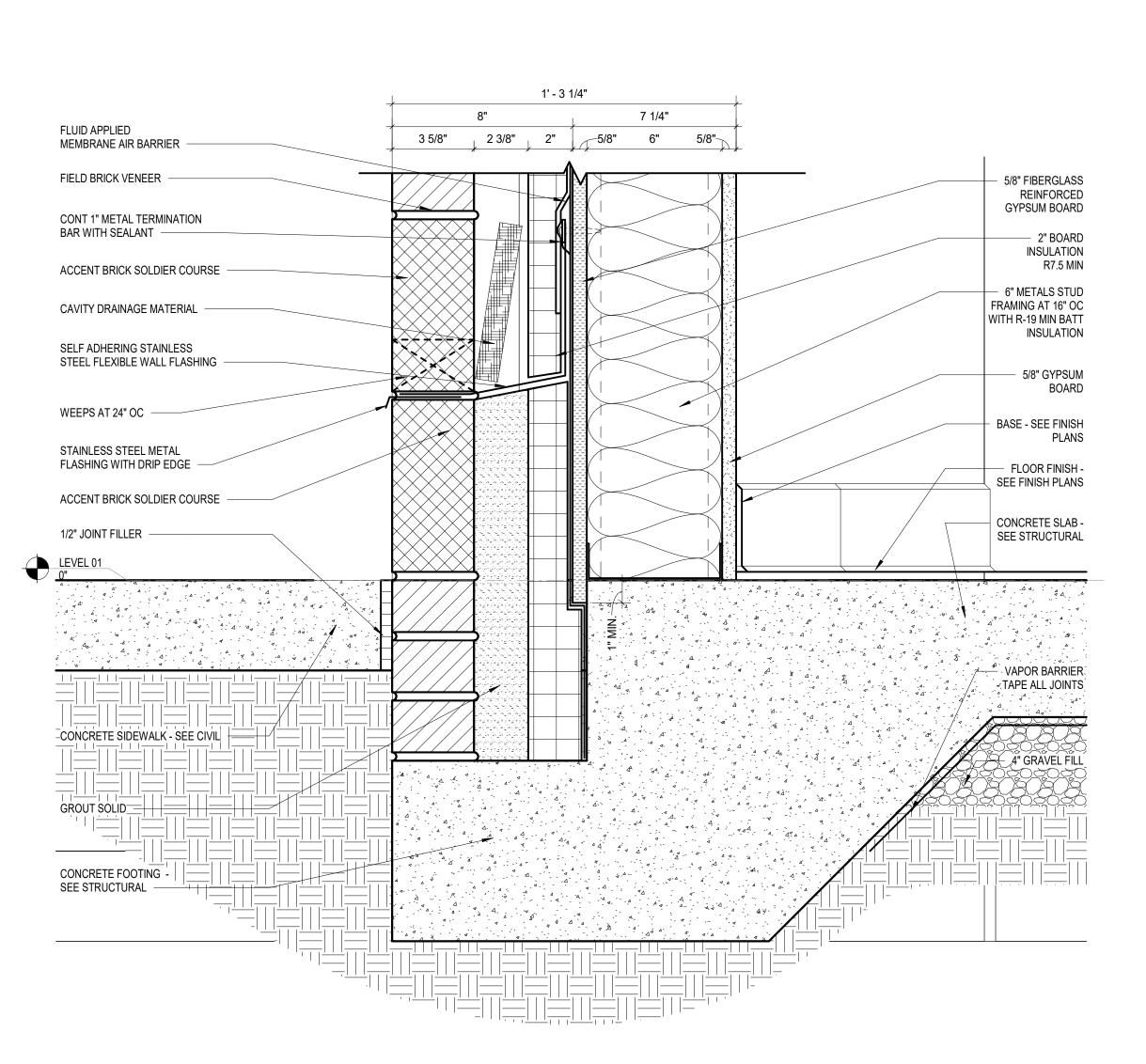
BOARD



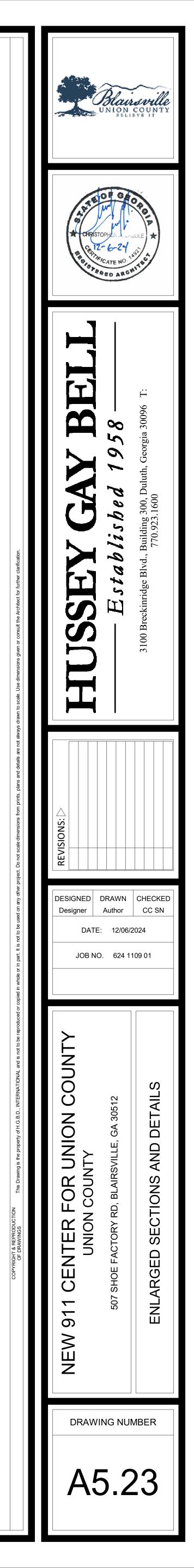


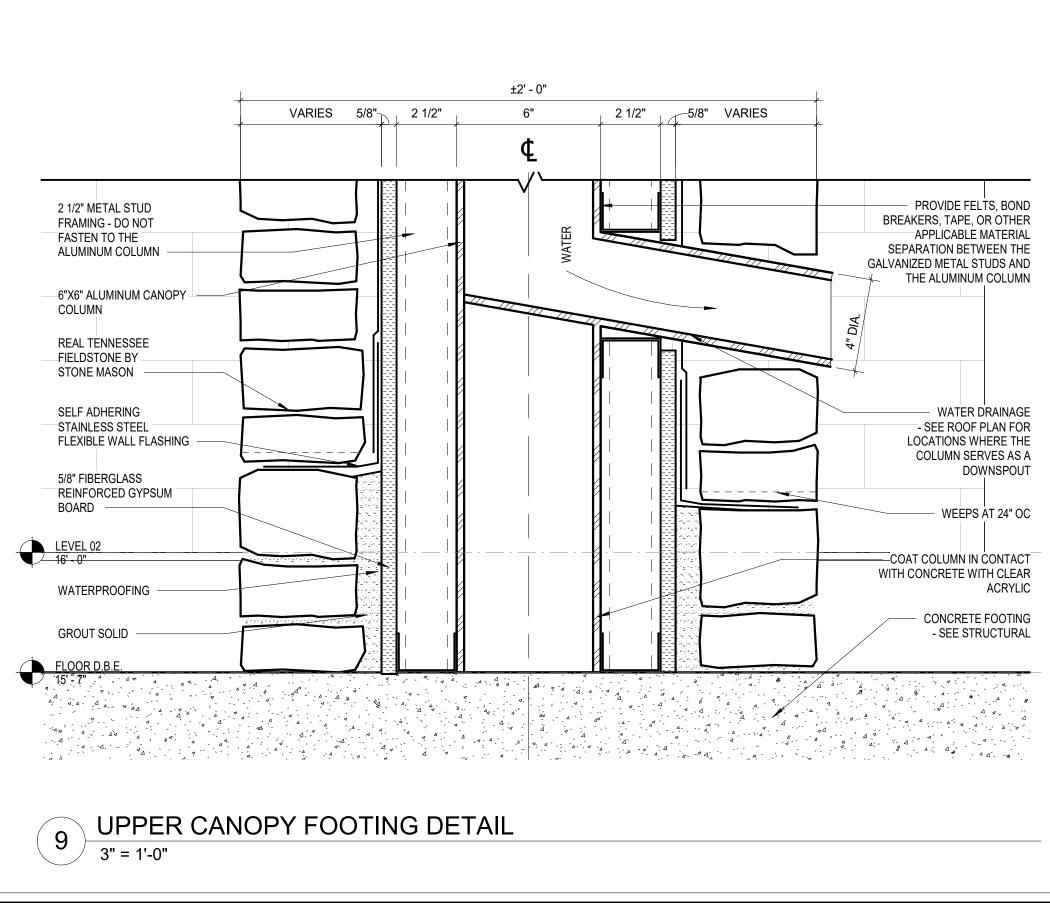


1 BRICK WALL AT LEVEL 02 3" = 1'-0"

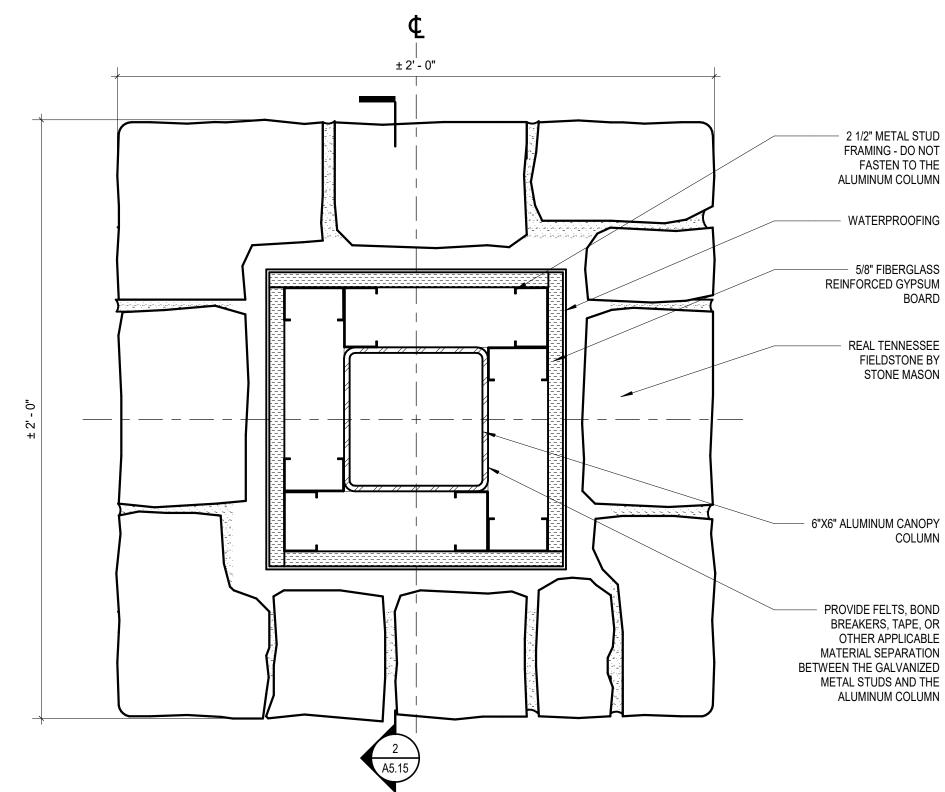


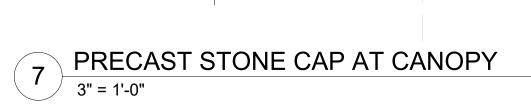
2 BASE FLASHING AT BRICK WALL 3" = 1'-0"

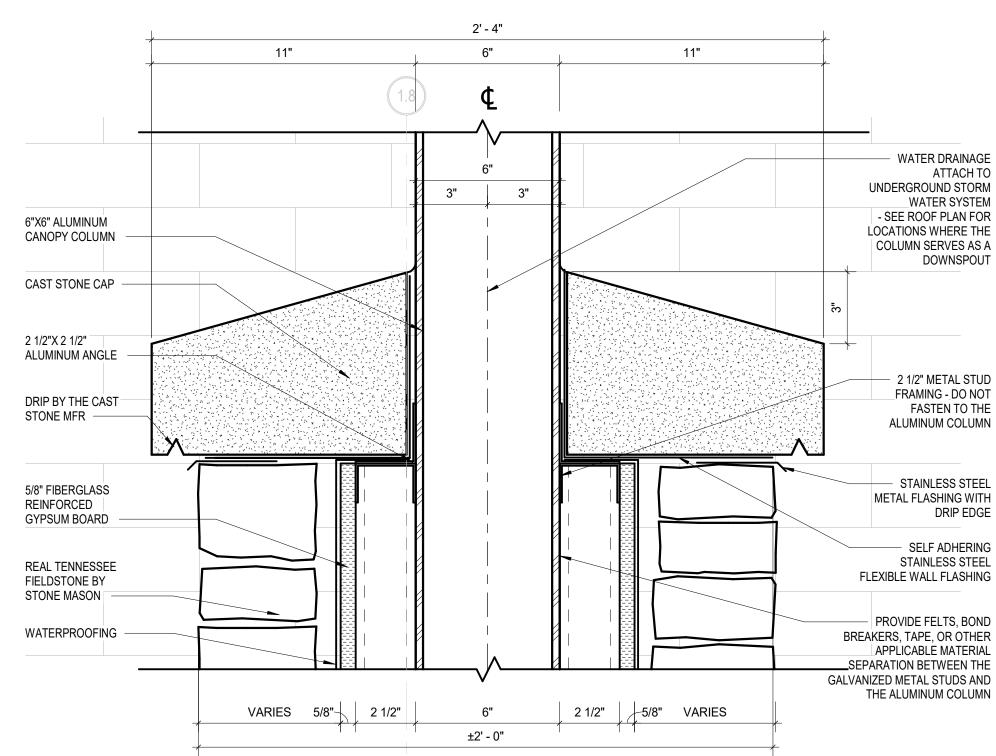




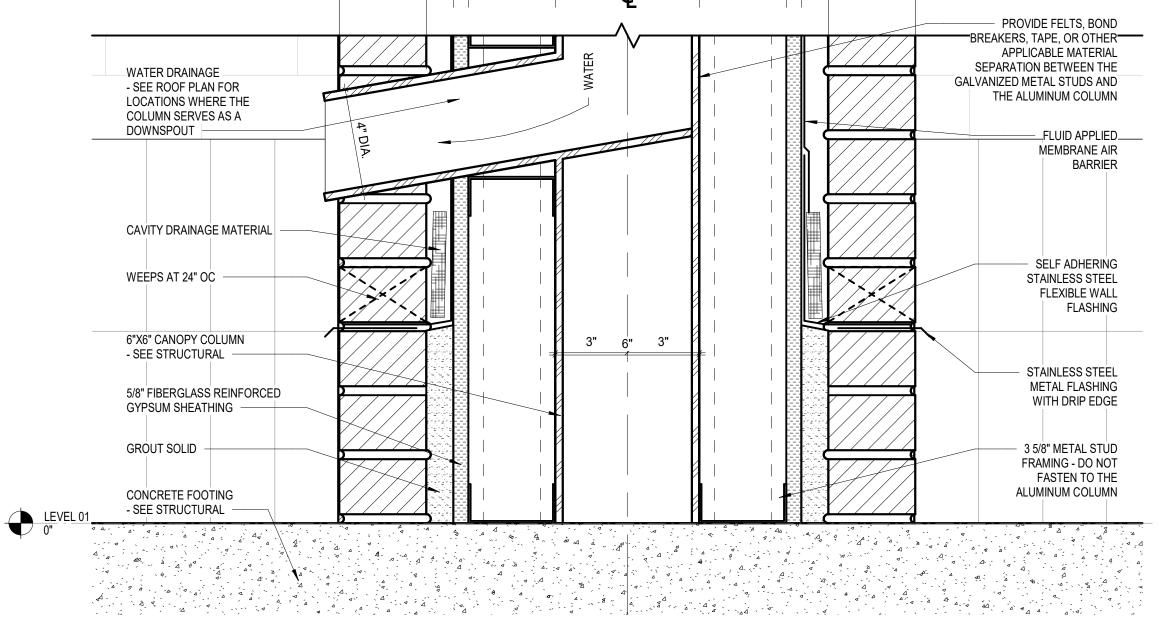








6 LOWER CANOPY FOOTING DETAIL 3" = 1'-0"



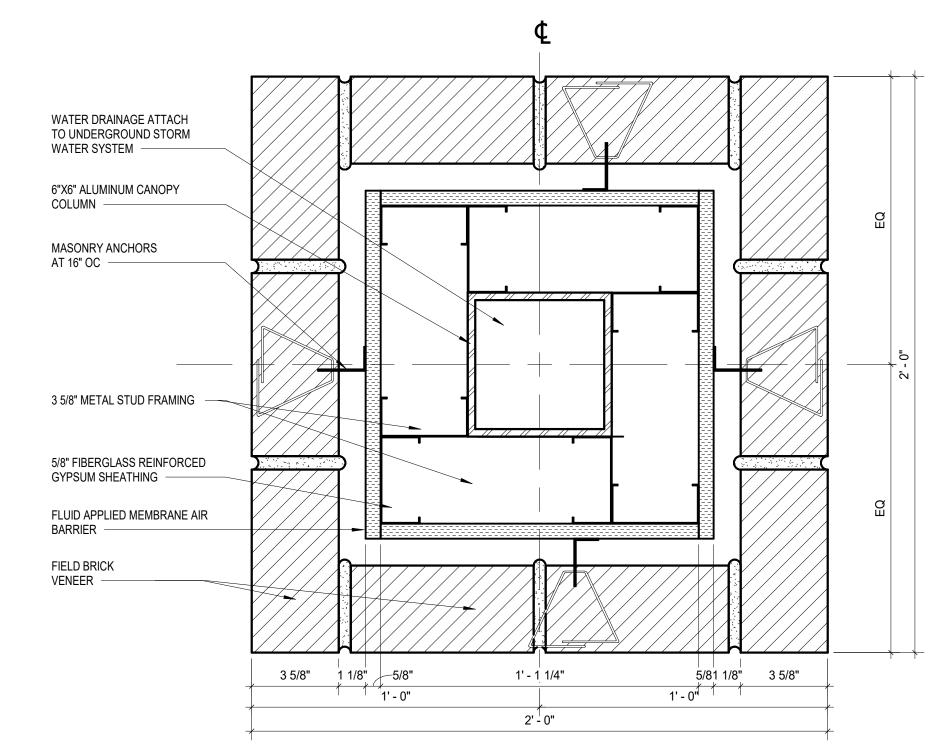
2' - 0"

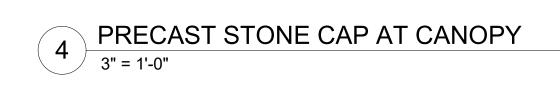
6"

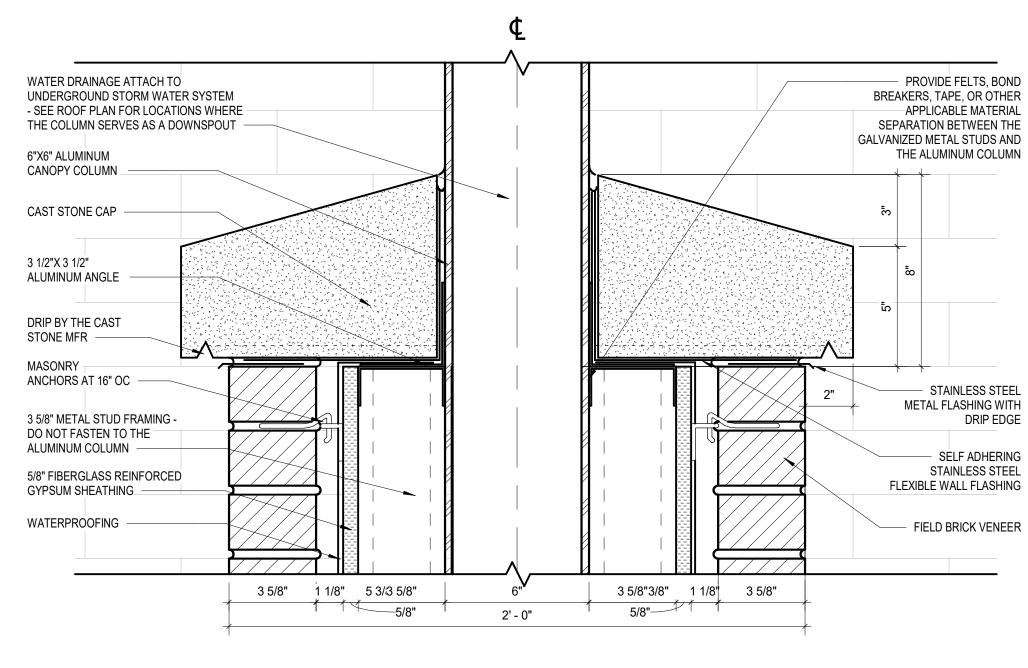
3 5/8" 5/8" 1 1/8" 3 5/8"

5 CANOPY COLUMN PLAN DETAIL 3" = 1'-0"

3 5/8" 1 1/8" _5/8" 3 5/8"







2 1/2" METAL STUD FRAMING - DO NOT FASTEN TO THE ALUMINUM COLUMN STAINLESS STEEL METAL FLASHING WITH DRIP EDGE - SELF ADHERING

ATTACH TO

STAINLESS STEEL FLEXIBLE WALL FLASHING PROVIDE FELTS, BOND APPLICABLE MATERIAL SEPARATION BETWEEN THE

> 2 1/2" METAL STUD FRAMING - DO NOT FASTEN TO THE ALUMINUM COLUMN

WATERPROOFING - 5/8" FIBERGLASS

REINFORCED GYPSUM BOARD

> FIELDSTONE BY STONE MASON

> > COLUMN

BREAKERS, TAPE, OR OTHER APPLICABLE MATERIAL SEPARATION METAL STUDS AND THE ALUMINUM COLUMN

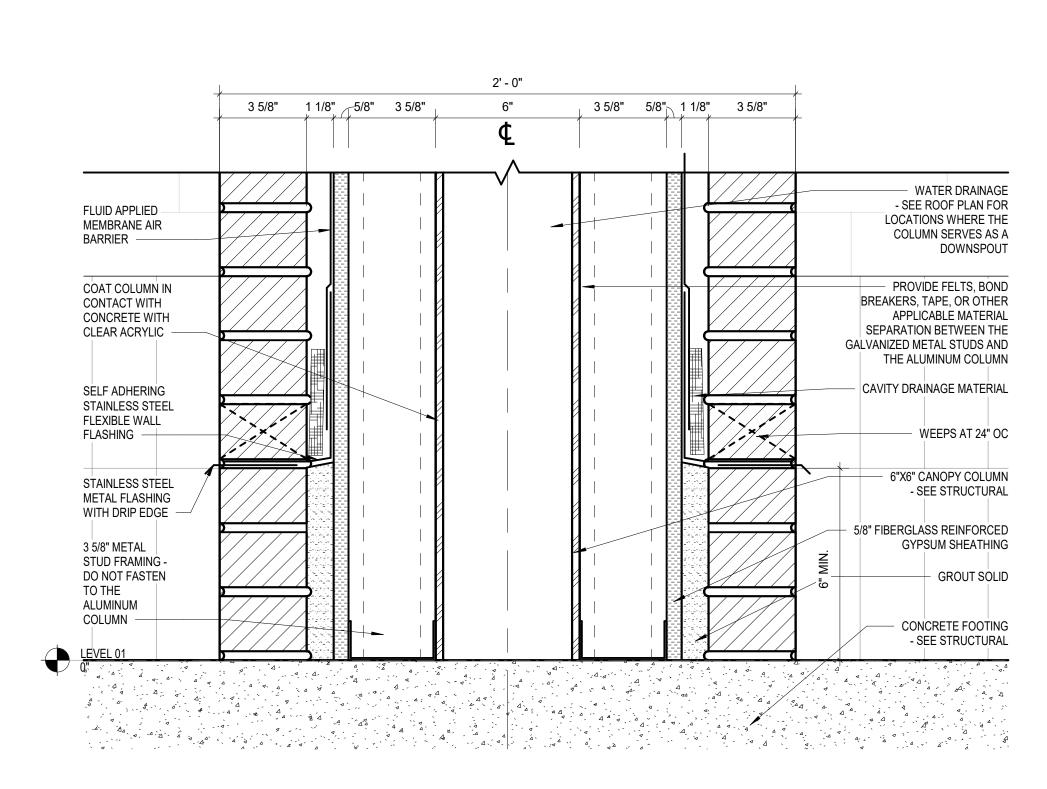
WATER DRAINAGE -SEE ROOF PLAN FOR LOCATIONS WHERE THE COLUMN SERVES AS A DOWNSPOUT WEEPS AT 24" OC ACRYLIC

> CONCRETE FOOTING - SEE STRUCTURAL

CONSTRUCTION DOCUMENT PACKAGE

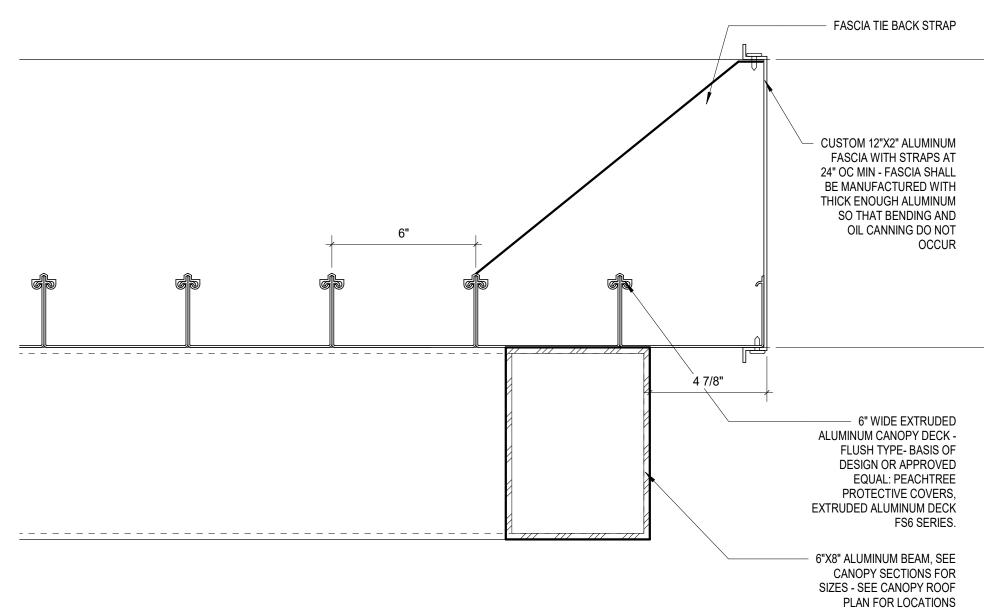
3 LOWER CANOPY FOOTING DETAIL / 3" = 1'-0"

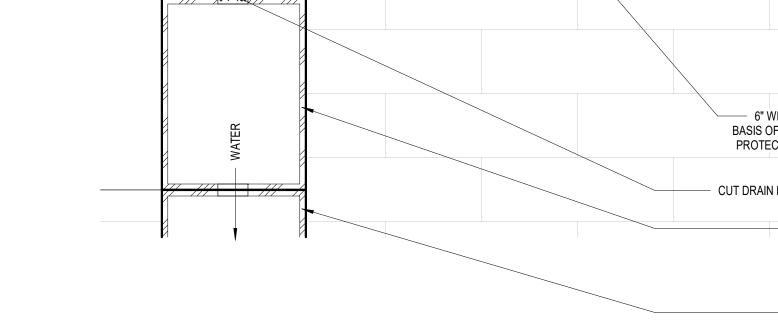
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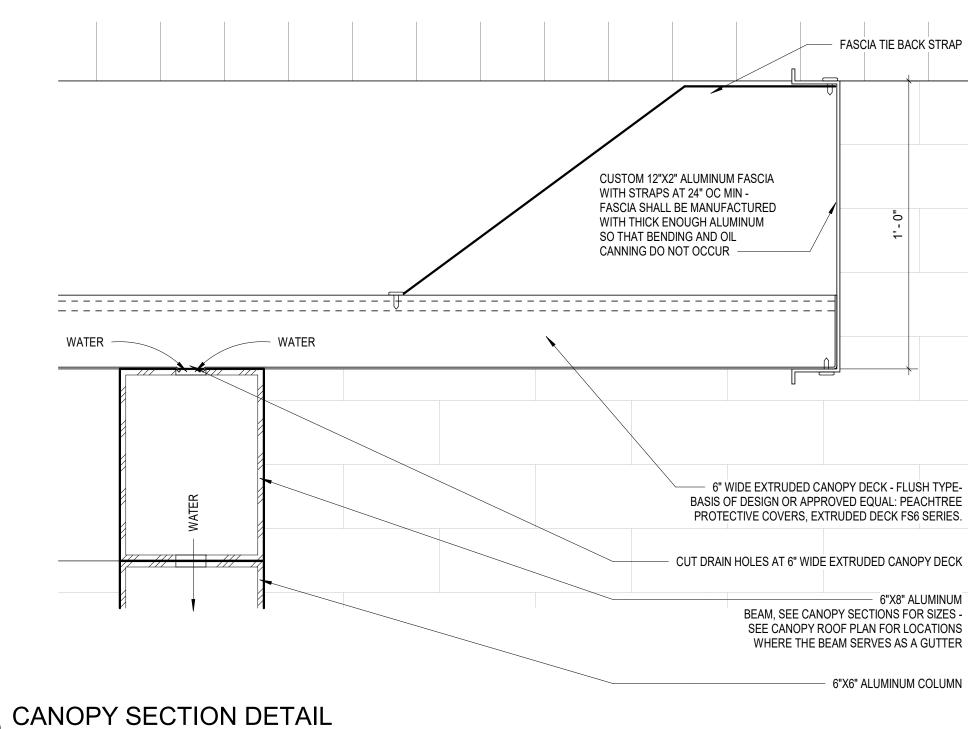




3" = 1'-0"

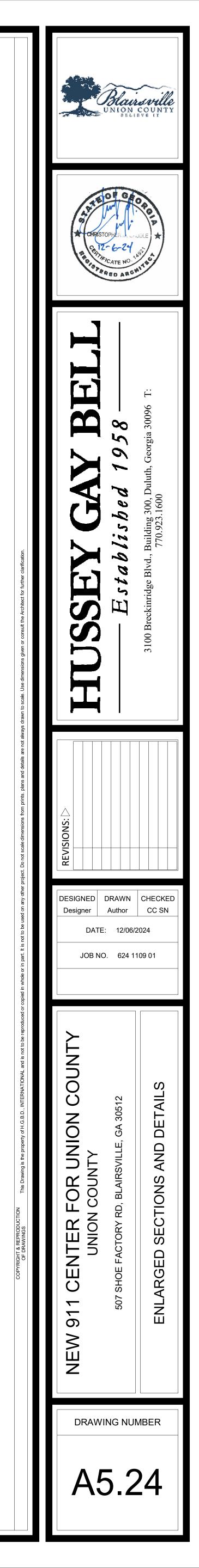


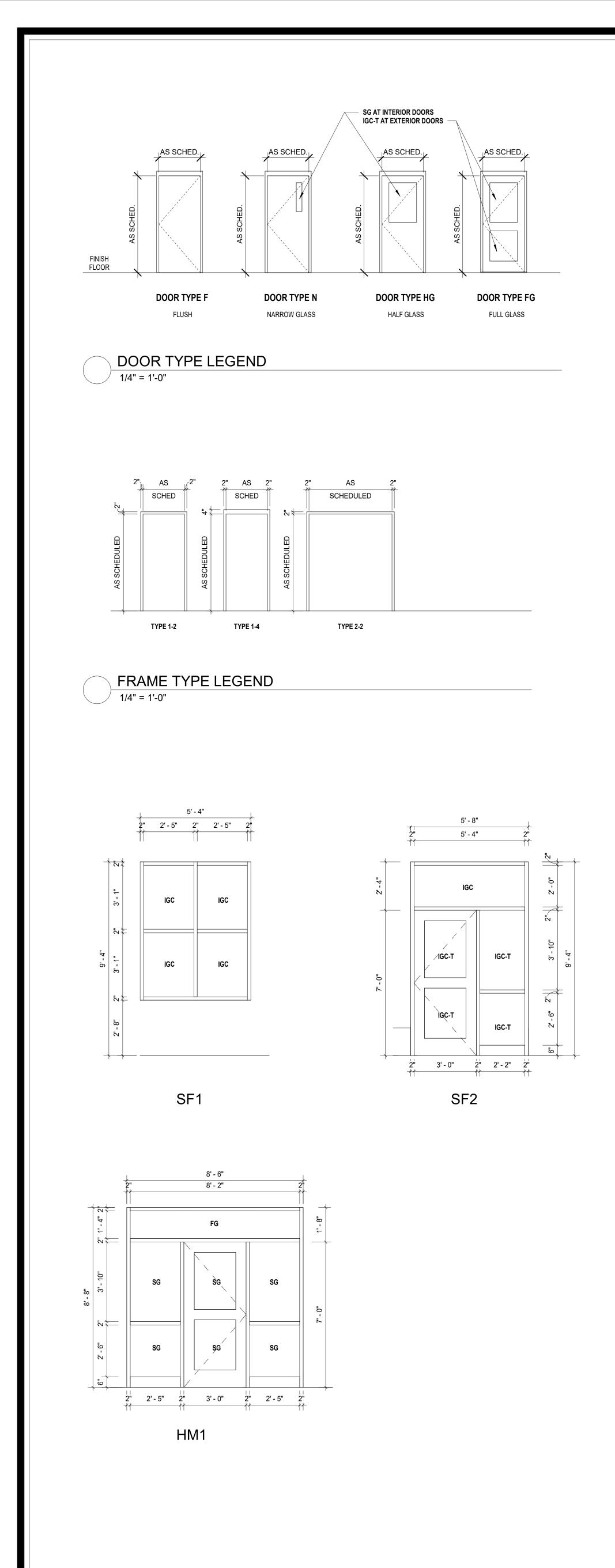




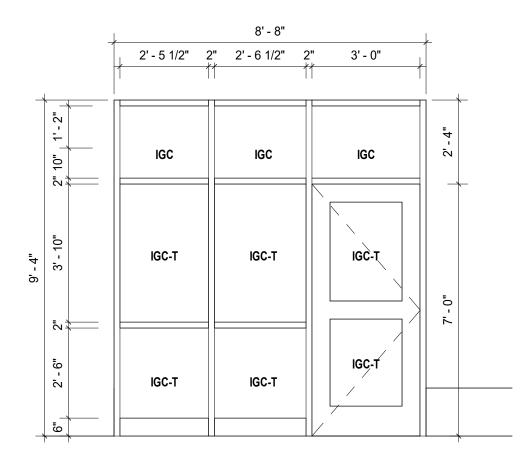
WHERE THE BEAM SERVES

AS A GUTTER

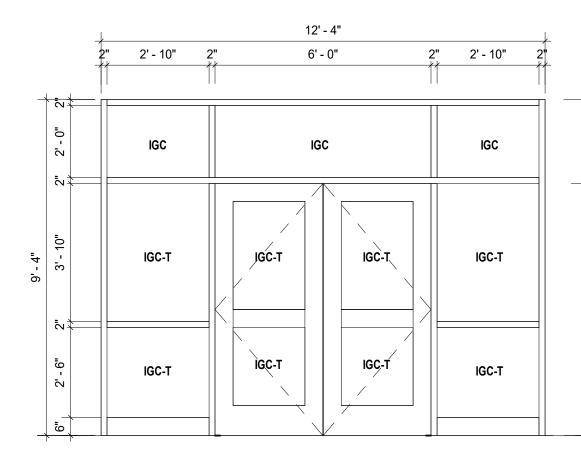




| | | | DOOR SCHEDULE | | | | | | | | | | | | | |
|----------------|-------------------------------------------------------------|-------------|--------------------|--------------------|------------------|------------|---------|------------|--------------|-------|------|------|------------|------------|--------|------------------|
| | | | DOOR | | | | | | 1 | FRAME | | | | NISH | FIRE | |
| RAME AND | DOOR LEGEND | MARK | | HT | THK | MAT | PANEL | TYPE | MAT | HEAD | JAMP | SILL | DOOR | FRAME | RATING | REMARKS |
| | | | | 71 01 | 4.0/4 | | 50 | 050 | | | | | MED | | 1 | |
| SF | 4 1/2" STOREFRONT (ALUMINUM FRAME) | 101A | 3' - 0" 3' - 0" | 7' - 0" 7' - 0" | 1 3/4" | | FG | SF2 SF2 | ALUM ALUM | | | | MFR MFR | MFR MFR | | INSULATED, GLASS |
| HM | 8 3/4" HOLLOW METAL FRAME AND/OR HOLLOW METAL DOORS | 101B 102 | 3 - 0 | 7 - 0 | 1 3/4" 1 3/4" | ALUM WD | FG | 1-2 | HM | | | | STAIN | PAINT | | |
| ALUM | ALUMINUM (DOORS) | 102 | 3 - 0 | 7 - 0" | 1 3/4 | WD | | 1-2 | НМ | | | | STAIN | PAINT | | |
| | | 103 | 3' - 0" | 7'-0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| VD | WOOD (DOORS) | 104 | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| IFR | MANUFACTURE'S FINISH | 106A | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 106J 106B | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 107 | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | HM1 | HM | | | | STAIN | PAINT | | INSULATED, GLASS |
| GLAZING LE | GEND | 108A | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | HM1 | HM | | | | STAIN | PAINT | | INSULATED, GLASS |
| | | 108B | 3' - 0" | 7' - 0" | 1 3/4" | ALUM | FG | SF3 | ALUM | | | | MFR | MFR | | , |
| SG | SAFETY GLASS, 1/4" CLEAR TEMPERED | 110 | 4' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | 45 | |
| | | 111 | 3' - 0" | 7' - 0" | 1 3/4" | HM | F | 1-4 | HM | | | | PAINT | PAINT | | |
| | | 112 | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | 1-2 | HM | | | | STAIN | PAINT | | |
| ĒG | 1/4" CLEAR GLASS | 113 | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 114 | 3' - 0" | 7' - 0" | 1 3/4" | ALUM | HG | SF6 | ALUM | | | | MFR | MFR | | |
| GC | INSULATED GLASS UNITS (LOW E) | LEVEL 02 | | | | | | | 1 | | | | | | | • |
| 90 | INSULATED GLASS UNITS (LOW E) | 201A | 6' - 0" | 7' - 0" | 1 3/4" | ALUM | FG | SF4 | ALUM | | | | MFR | MFR | | INSULATED, GLASS |
| | | 201B | 6' - 0" | 7' - 1" | 1 3/4" | WD | Ν | 2-2 | HM | | | | PAINT | PAINT | 90 | |
| GC-T | INSULATED GLASS UNITS, TEMPERED (LOW E) | 202A | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | 1-2 | HM | | | | STAIN | PAINT | | |
| - | | 202B | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | 90 | |
| | | 202C | 3' - 0" | 7' - 0" | 1 3/4" | ALUM | FG | SF5 | ALUM | | | | MFR | MFR | | INSULATED, GLASS |
| NOTES | | 202D | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | 90 | |
| | | 203 | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | 1-2 | HM | | | | STAIN | PAINT | | |
| VERIEV IN FIEL | LD ALL DIMENSIONS PRIOR TO FABRICATION OF STOREFRONT AND HM | 204 | 3' - 0" | 7' - 0" | 1 3/4" | WD | HG | 1-2 | HM | | | | STAIN | PAINT | | |
| FRAMES. | | 205 | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 206 | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 207 | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 208 | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | | |
| | | 209 | 3' - 0" | 7' - 0" | 1 3/4" | WD | IF - | 1-2 | HM | | | | STAIN | PAINT | 90 | |
| | | 210 | 3' - 0" | 7' - 0" | 1 3/4" | WD | F | 1-2 | HM | | | | STAIN | PAINT | 90 | |
| | | 225A | 3' - 0" | 7' - 0" | 1 3/4" | WD | N | 1-2 | HM | | | | STAIN | PAINT | 90 | |
| | | 225B | 3' - 0" | 7' - 0" | 1 3/4" | ALUM | FG | SF5 | ALUM | | | | MFR | MFR | | INSULATED, GLASS |

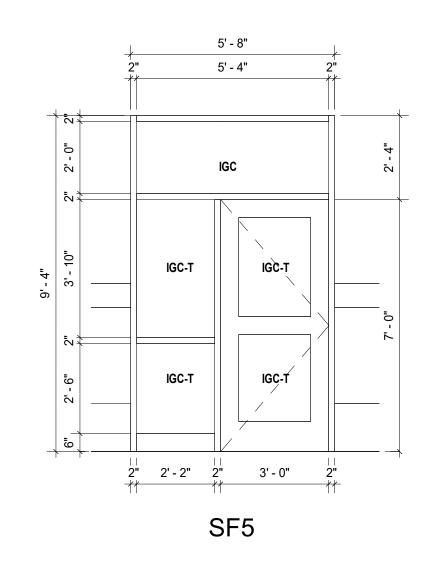


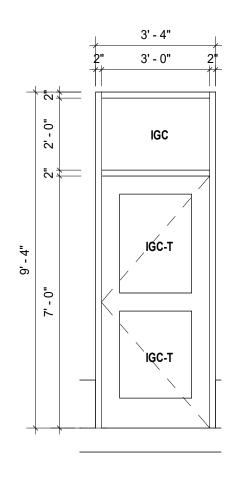
SF3



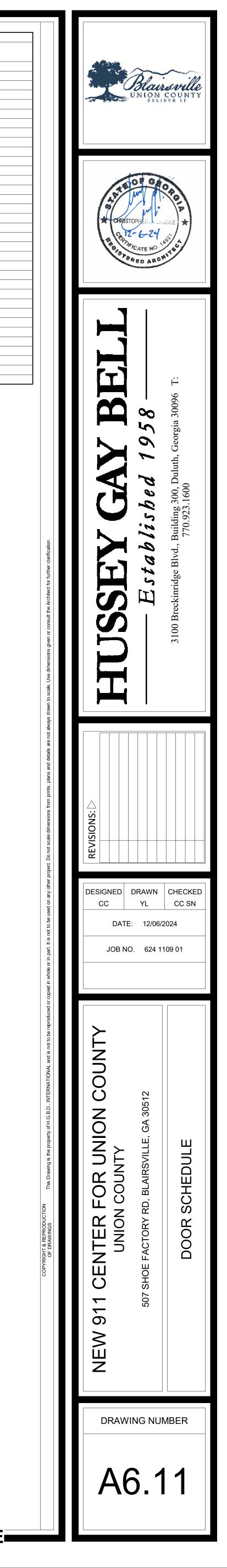
SF4

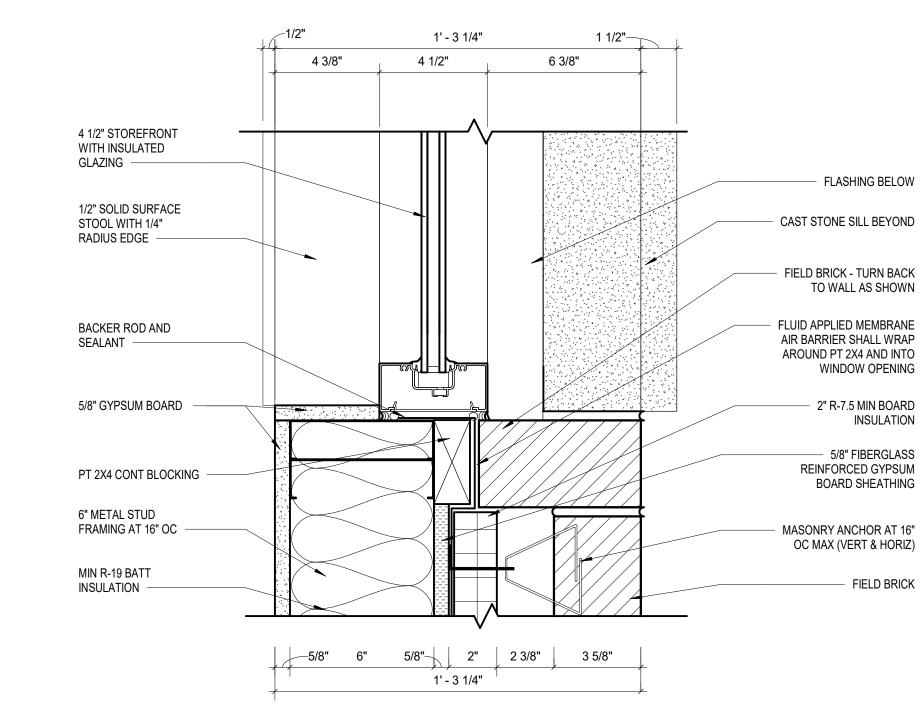
PROVIDE WINDOW BLINDS AT ALL APPLICABLE WINDOWS





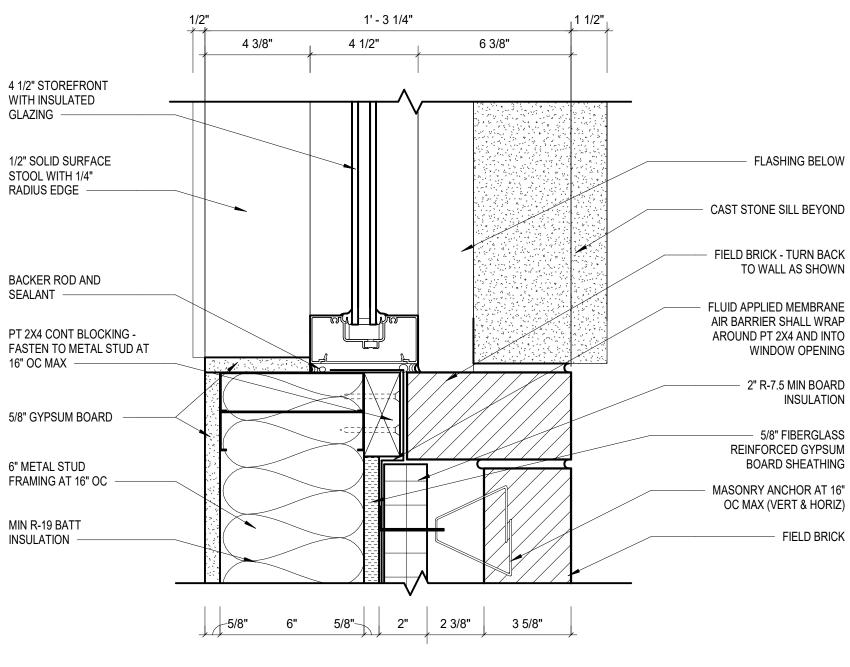
SF6



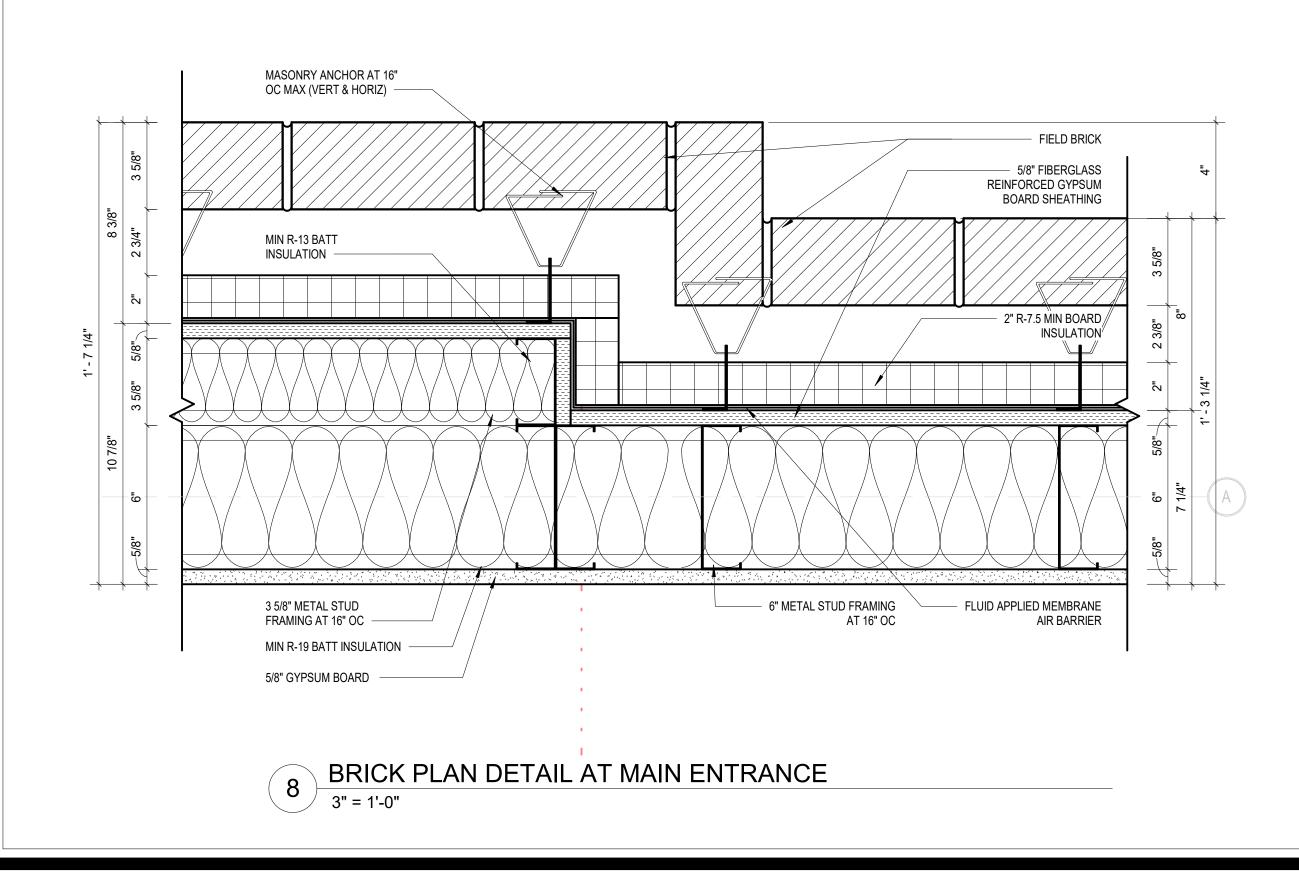




6 WINDOW JAMB AT BRICK WALL - 2 3/8" AIR GAP 3" = 1'-0"



7 WINDOW JAMB AT BRICK WALL - 2 3/8" AIR GAP 3" = 1'-0"

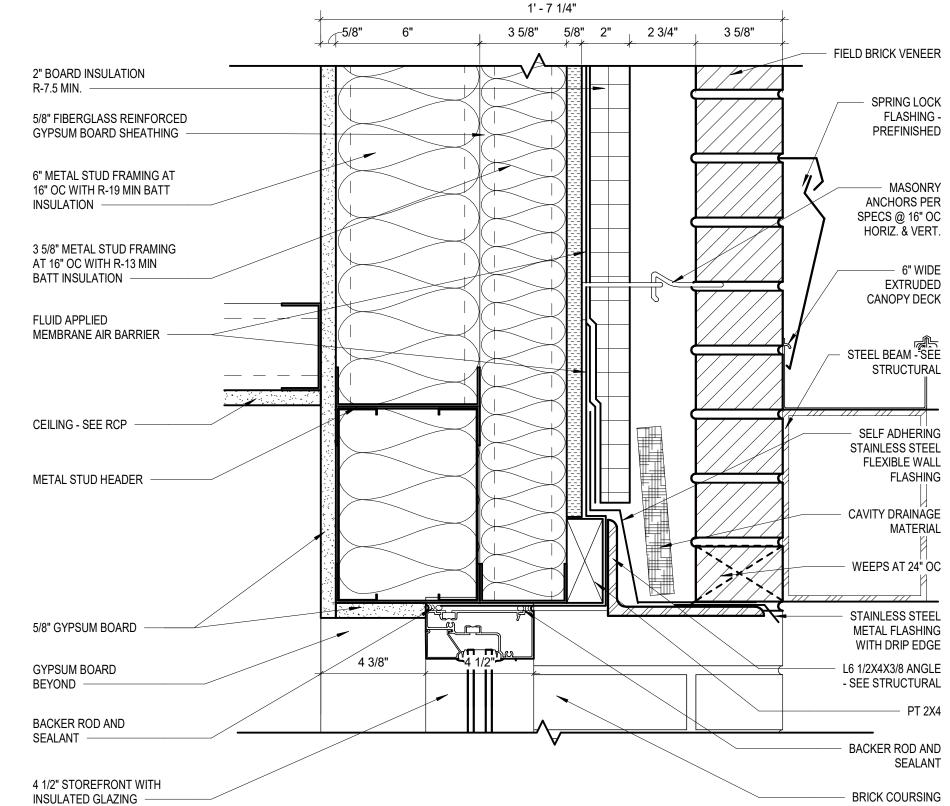


5 WINDOW HEAD DETAIL AT BRICK & METAL STUD 3" = 1'-0"

INSULATION 5/8" FIBERGLASS REINFORCED GYPSUM BOARD SHEATHING - FIELD BRICK

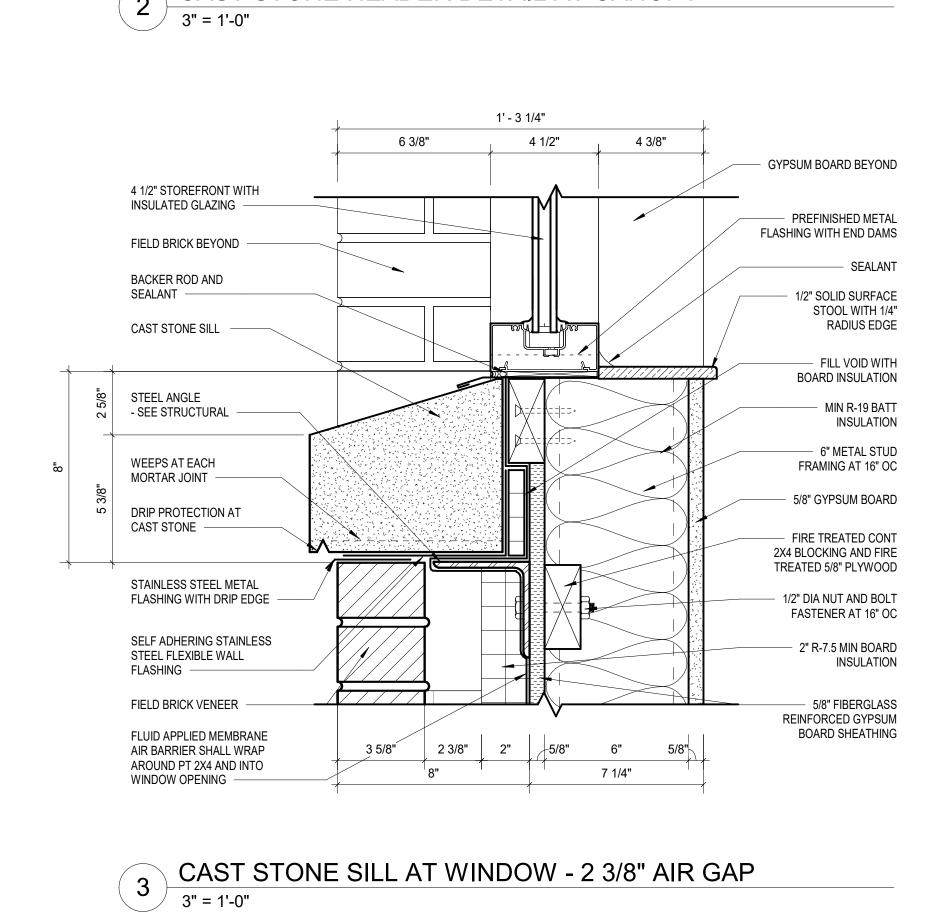
WINDOW OPENING 2" R-7.5 MIN BOARD

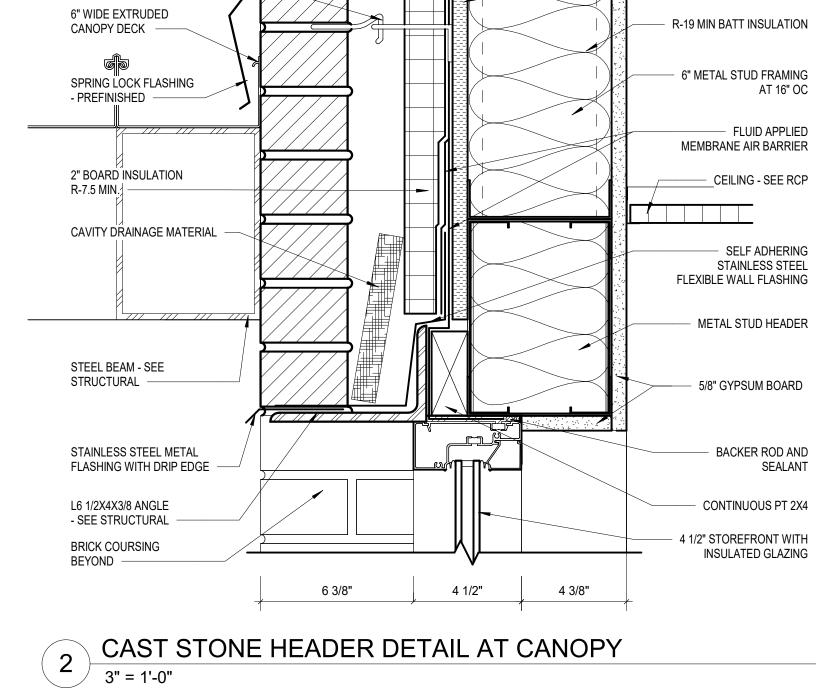
- FLASHING BELOW CAST STONE SILL BEYOND FIELD BRICK - TURN BACK TO WALL AS SHOWN FLUID APPLIED MEMBRANE AIR BARRIER SHALL WRAP AROUND PT 2X4 AND INTO WINDOW OPENING 2" R-7.5 MIN BOARD INSULATION - 5/8" FIBERGLASS REINFORCED GYPSUM BOARD SHEATHING MASONRY ANCHOR AT 16"

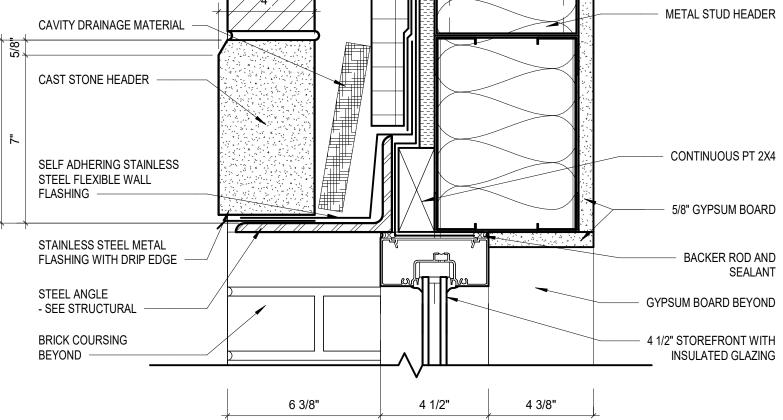


BRICK HEADER DETAIL AT WINDOW 4 3" = 1'-0"

| - | 1' - 3 1/4" 5/8" 6" 5/8" 2" | 2 3/8" 3 5/8" | <u>د</u> |
|---------------------------------------------------------|--------------------------------|---------------|------------------------------------------------------------|
| 6" METAL STUD FRAMING | | | FIELD BRICK VENEEF |
| AT 16" OC | | + | FLUID APPLIED |
| R-19 MIN BATT INSULATION | | | MEMBRANE AIR BARRIEF |
| CEILING - SEE RCP | | | |
| 5/8" FIBERGLASS REINFORCED GYPSUM BOARD SHEATHING | | | 2" BOARD INSULATION R-7.5 MIN |
| CONTINUOUS PT 2X4 | | | CAVITY DRAINAGE MATERIAI |
| BACKER ROD AND SEALANT | | | SELF ADHERING STAINLESS STEEL FLEXIBLE WALL FLASHING |
| 5/8" GYPSUM BOARD | | | WEEPS AT 24" OC |
| 4 1/2" STOREFRONT WITH INSULATED GLAZING | | | STAINLESS STEEL METAI FLASHING WITH DRIP EDGE |
| | | | STEEL ANGLE - SEE STRUCTURAL |
| | | | BRICK BEYONI |
| - | 4 3/8" 4 1/2" | 6 3/8" | £ |







1' - 3 1/4"

6"

2 3/8" 2" 5/8"

1' - 3 1/4"

6"

5/8" FIBERGLASS

BOARD SHEATHING

5/8" FIBERGLASS

REINFORCED GYPSUM

BOARD SHEATHING

2 3/8" 2" 5/8"

3 5/8"

FIELD BRICK VENEER -

/ 3" = 1'-0"

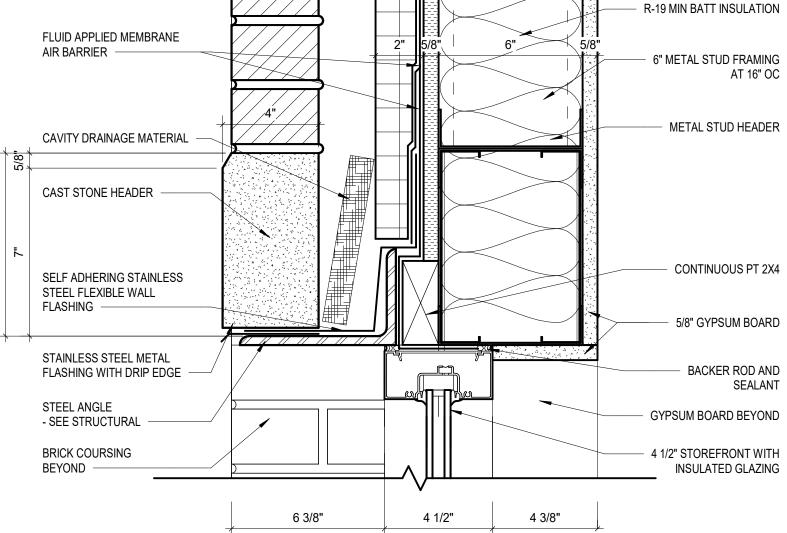
MASONRY ANCHOR AT

16" OC MAX (VERT &

HORIZ) —

MIN.

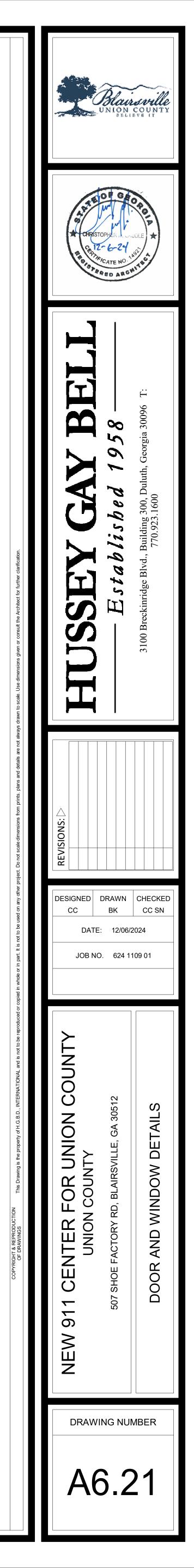
2" BOARD INSULATION R-7.5

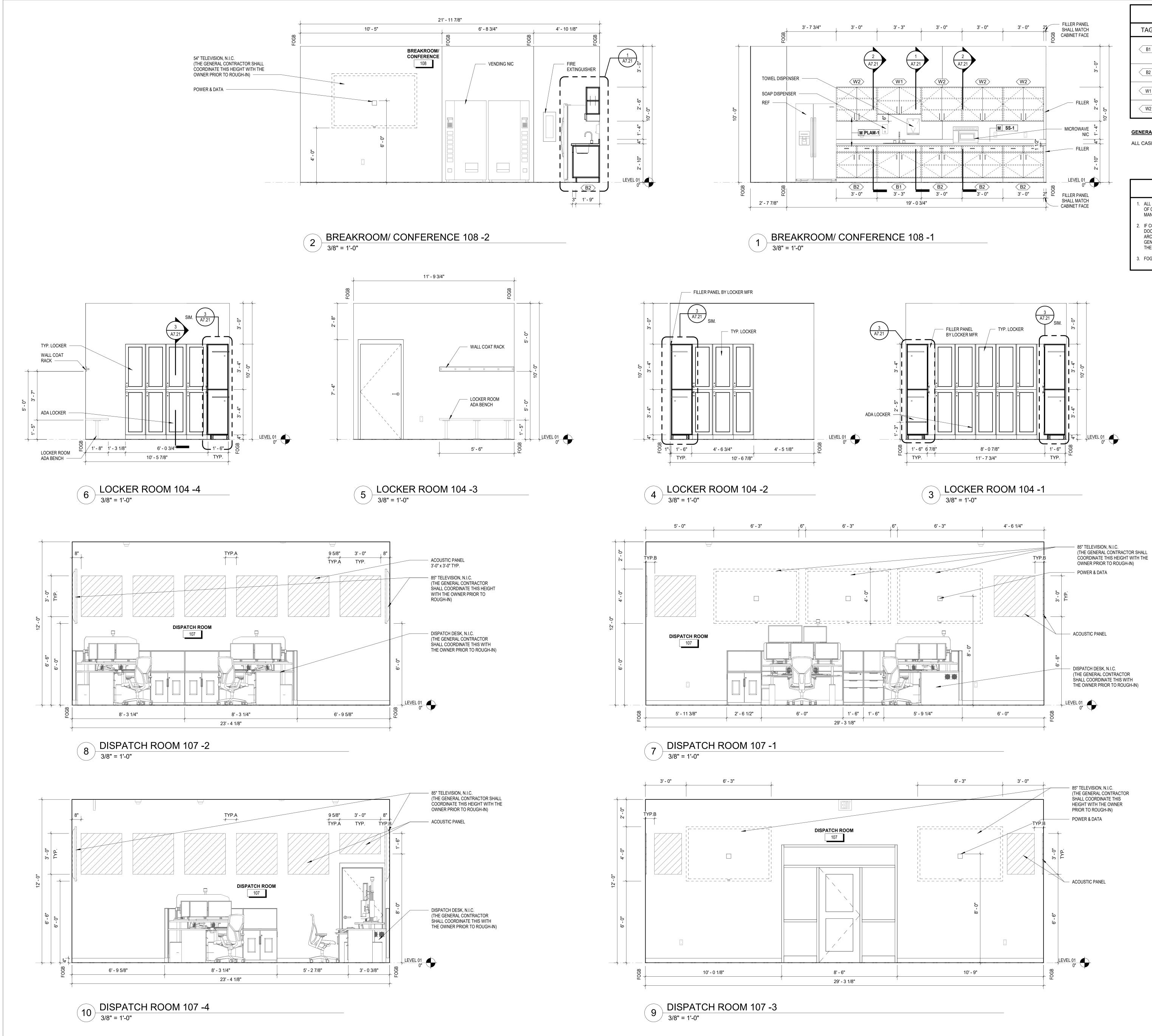


CAST STONE HEADER DETAIL AT WINDOW

3 5/8"

BEYOND

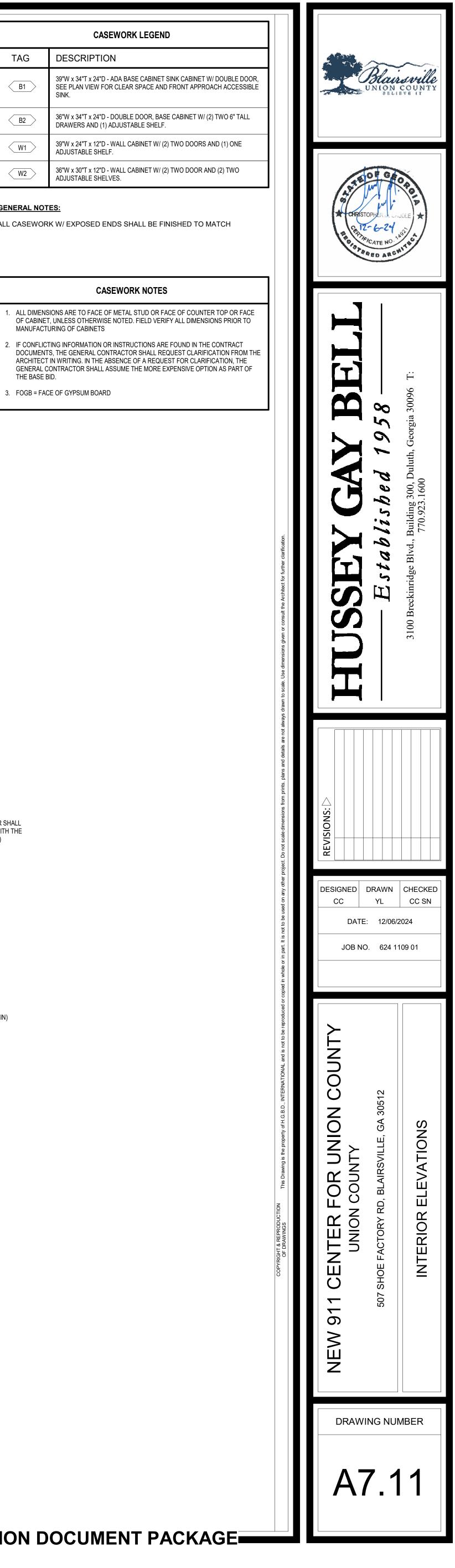


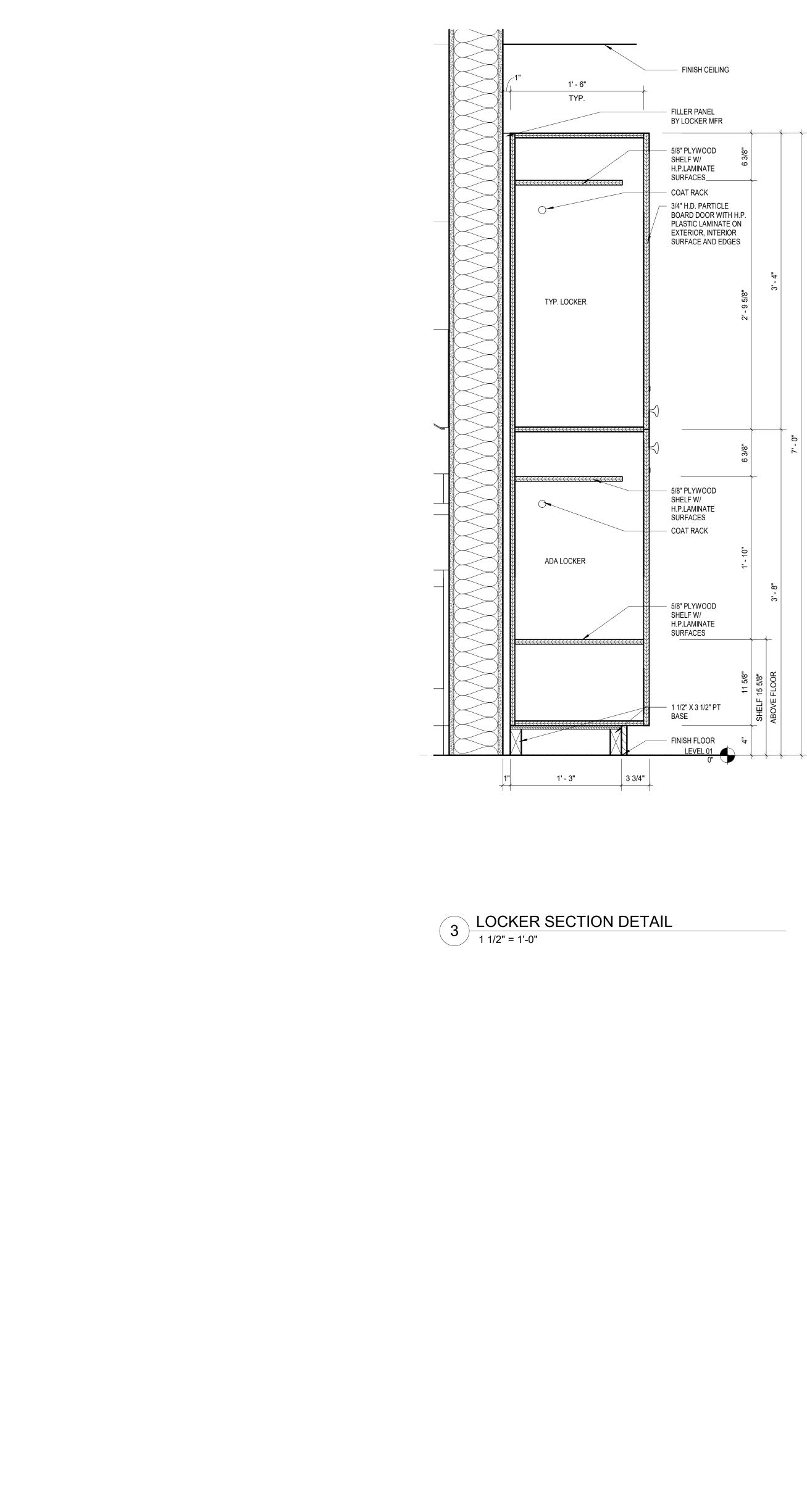


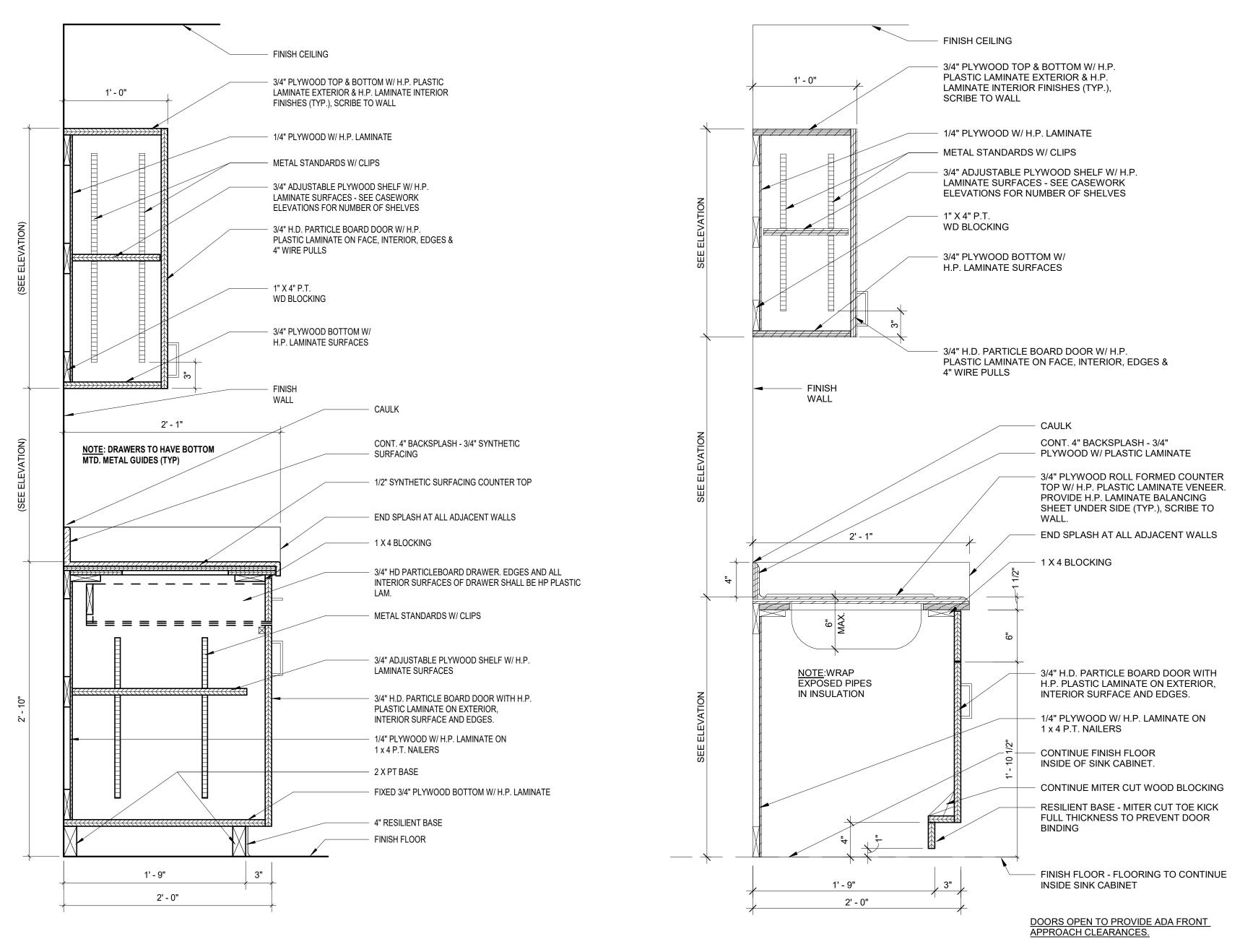
| CASEWORK LEGEND | | | | | | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| TAG | DESCRIPTION | | | | | | | |
| B1 | 39"W x 34"T x 24"D - ADA BASE CABINET SINK CABINET W/ DOUBLE DO SEE PLAN VIEW FOR CLEAR SPACE AND FRONT APPROACH ACCESSI SINK. | | | | | | | |
| B2 | 36"W x 34"T x 24"D - DOUBLE DOOR, BASE CABINET W/ (2) TWO 6" TALL DRAWERS AND (1) ADJUSTABLE SHELF. | | | | | | | |
| W1 | 39"W x 24"T x 12"D - WALL CABINET W/ (2) TWO DOORS AND (1) ONE ADJUSTABLE SHELF. | | | | | | | |
| W2 | 36"W x 30"T x 12"D - WALL CABINET W/ (2) TWO DOOR AND (2) TWO ADJUSTABLE SHELVES. | | | | | | | |

GENERAL NOTES:

ALL CASEWORK W/ EXPOSED ENDS SHALL BE FINISHED TO MATCH





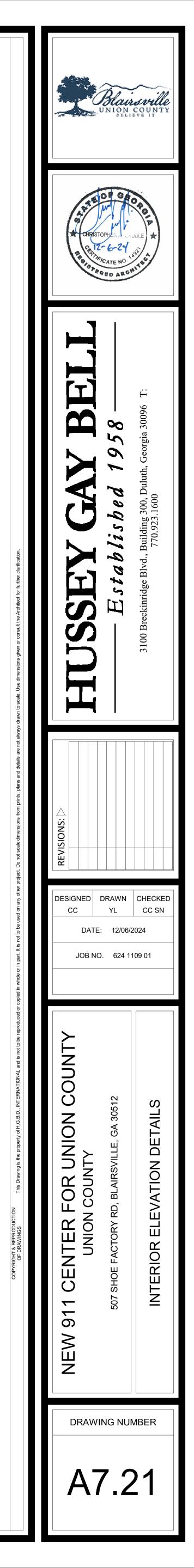


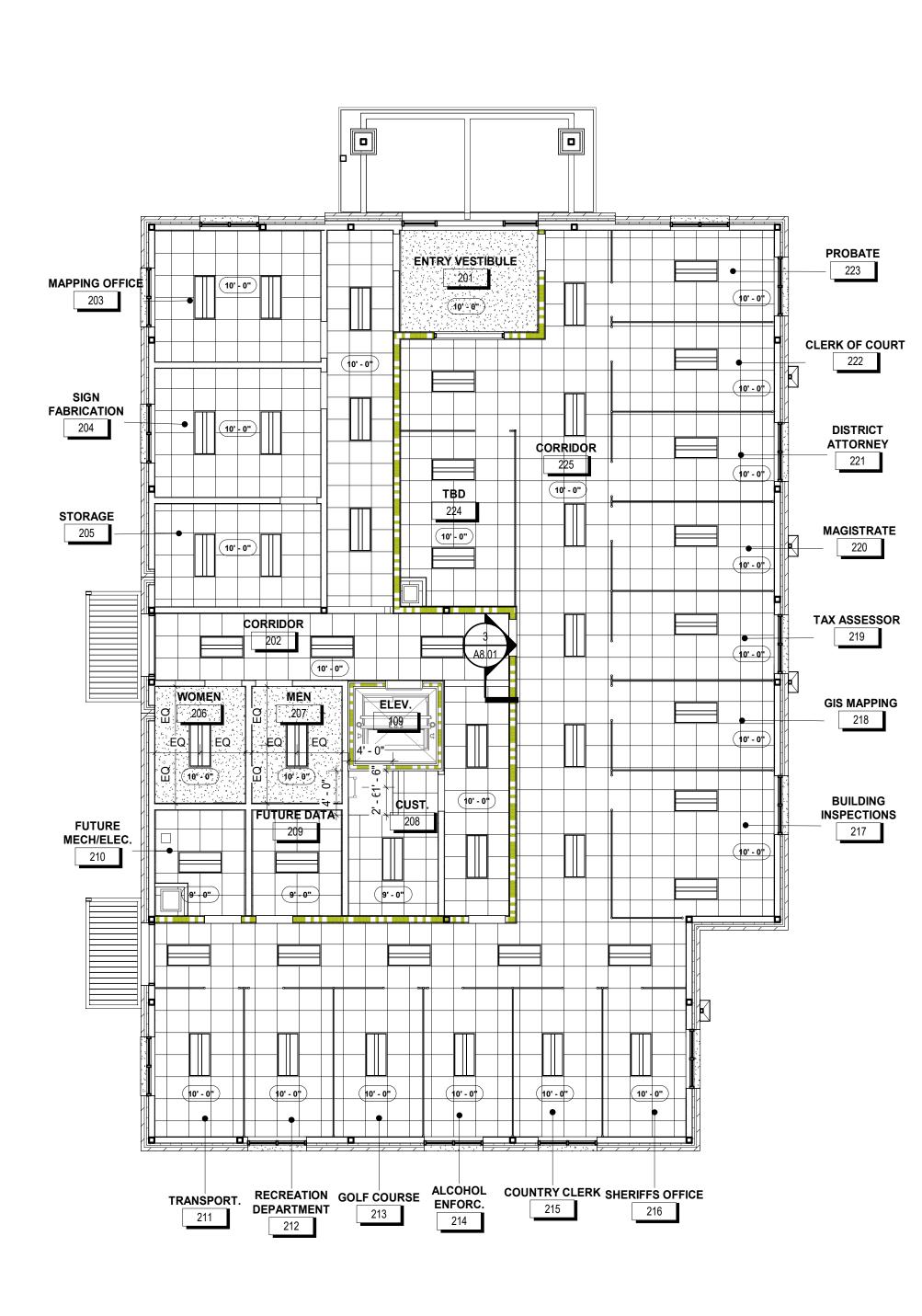
2 CASE WORK SECTION 1 1/2" = 1'-0"

NOTE:

• REFER TO INTERIOR ELEVATIONS FOR NOTES PERTAINING TO ADD ALTERNATES.

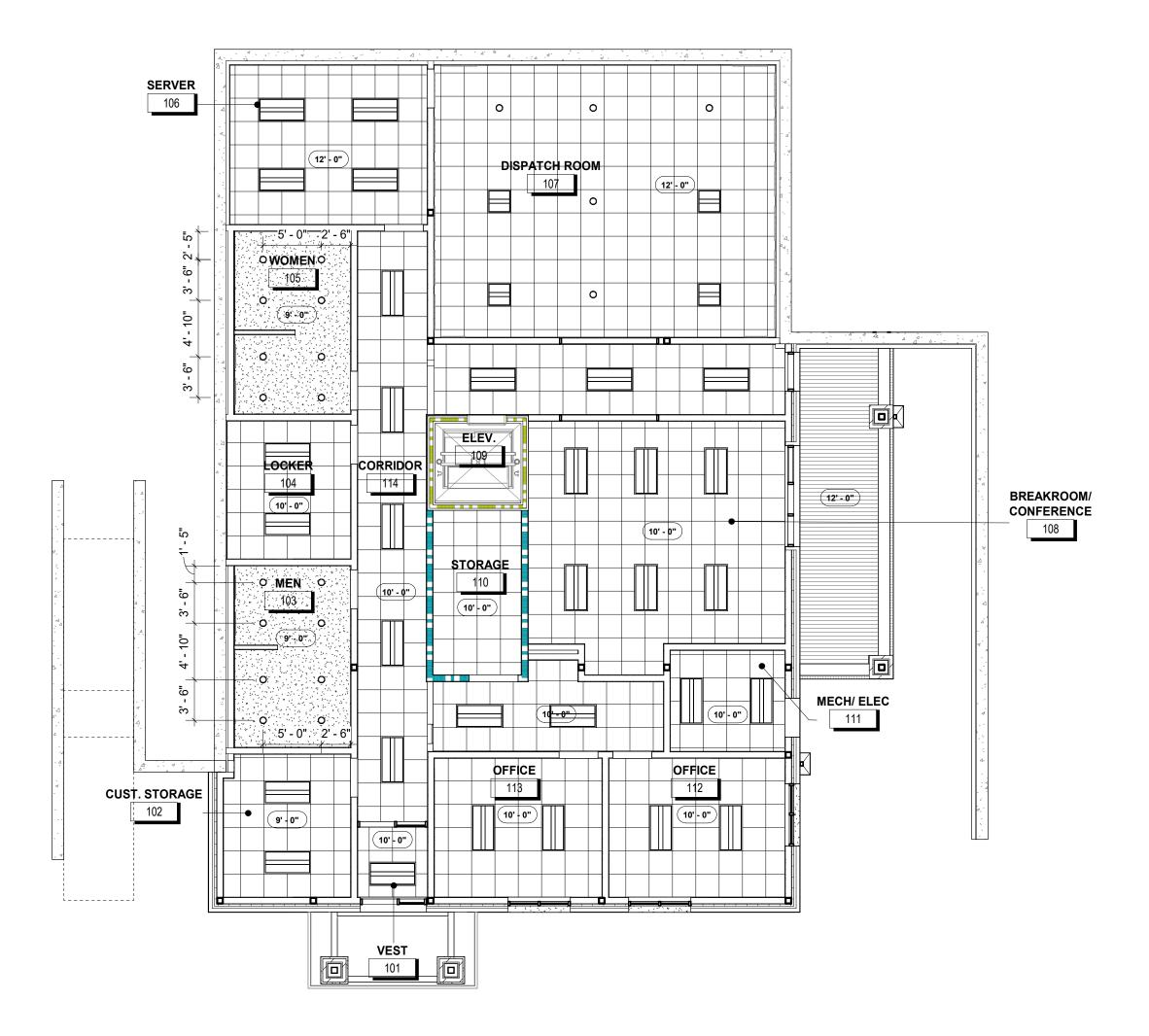
1 CASEWORK SECTION AT SINK (ADA)

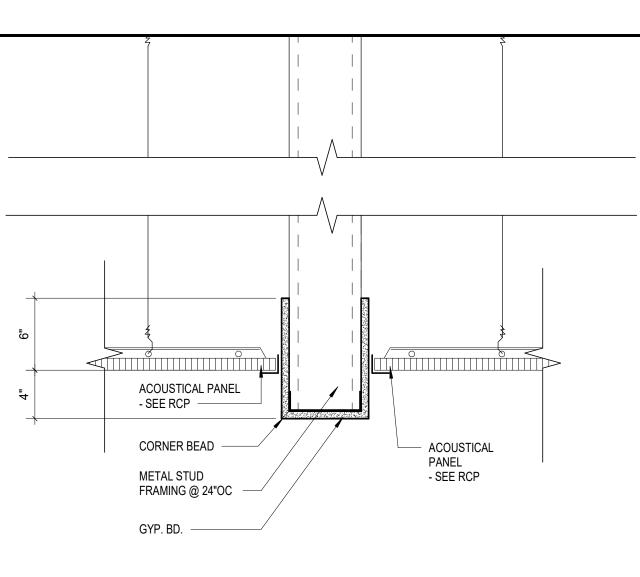


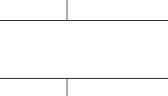












3 CEILING DETAIL 1 1/2" = 1'-0"

| RCP SYMBOL LEGEN |) |
|------------------------------|-----------------------------------------------------------------------------------|
| SYMBOL | DESCRIPTION |
| | 2'-0"x2'-0" SUSPENDED LAY-IN ACOUSTICAL PANEL CEILING SYSTEM. w/SQUARE EDGE |
| | INDICATES LOCATION OF SOUND ATTENUATION ABOVE THE CEILING |
| | GYPSUM BOARD CEILING |
| | PREFINISHED METAL SOFFIT PANEL |
| | 2' x 4' OR 2' x 2' LIGHT FIXTURE - SEE ELECTRICAL |
| X | LED EXIT SIGN - SEE ELECTRICAL. |
| ĺ | EXTERIOR LIGHT - SEE ELECTRICAL. |
| | 4" WIDE LED PENDANT LIGHT FIXTURE - SEE ELECTRICAL. |
| $\bigcirc \bigcirc \bigcirc$ | ROUND CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL. |
| | GENERAL PURPOSE 4' INDUSTRIAL STRIP FIXTURE - SEE ELECTRICAL. |
| | HVAC RETURN |
| | HVAC SUPPLY |

NOTES:

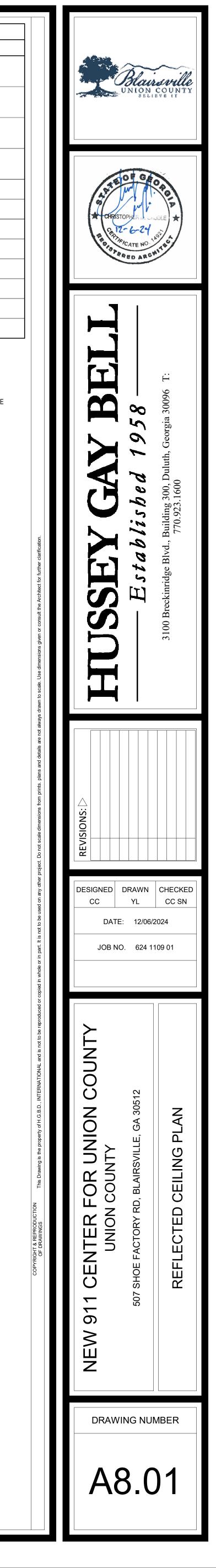
1. CEILING GRIDS TO BE CENTERED IN SPACE EACH DIRECTION. ADJUST GRID SUCH THAT NO PORTIONS OF TILE OCCUR AT WALL LESS THAN 4" WIDE.

2. REFER TO MEP DRAWINGS FOR FIXTURE TYPE AND QUANTITY . 3. PROVIDE ACCESS PANELS FOR SHUT OFF VALVES OR ACCESS TO ANY MECHANICAL EQUIPMENT NEEDED - SEE

MECHANICAL AND PLUMBING DRAWINGS 4. SEE ELECTRICAL DRAWINGS FOR MOUNTING LIGHTING FIXTURE TYPE

5. ALL GYPSUM BOARD FASTENED TO UNDERSIDE OF ROOF TRUSSES THAT ARE EXPOSED TO VIEW SHALL BE FINISHED AND PAINTED.

6. EXPOSED STRUCTURE ABOVE SHALL BE FOG PAINTED. COLOR TO BE SELECTED BY THE ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.



| | | | FINISH MATERIAL LIST |
|--------------|--------|---------------------|-------------------------------------------------------------|
| SURFACE | SYMBOL | MATERIAL | MANU BASIS |
| | LVT | LUXURY VINYL TILE | SHAW TERRAIN II - STYLE 0454V - COLOR TBD FROM FULL RANGE (|
| FLOORING | DATA | ACCESS FLOOR SYSTEM | REFER TO SPECS |
| | СТ | CERAMIC TILE | DALTILE - HAUT MONDE - COLOR TBD FROM FULL RANGE OF OPTI |
| 5405 | RB | RUBBER BASE | ROPPE TP RUBBER BASE - CONTOURS WALL BASE SYSTEM - COLC |
| BASE | СТ | CERAMIC TILE BASE | 6" HIGH COVE BASE TO MATCH CT FLOORING |
| | СТ | CERAMIC TILE | DALTILE - COLOR WHEEL LINEAR, POLISHED 4X16 LAID VERTICALL |
| WALLS | PNT-1 | GYPSUM BD. | SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX EGO |
| | PNT-2 | GYPSUM BD. | SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX EGO |
| COUNTER TOPS | SS-1 | SOLID SURFACE | WILSONART SOLID SURFACE COUNTERTOP - COLOR TBD - REFER |
| COUNTERTOPS | | | |
| CABINETRY | PLAM-1 | LAMINATE | WILSONART - MATTE FINISH - COLOR TBD FROM FULL RANGE OF |
| CABINETRY | | | |
| CEILING | ACT-1 | ACOUSTICAL TILE | ARMSTRONG OPTIMA LAY IN 2 X 2 ACOUSTICAL CEILING PANELS/H |
| | PNT | GYPSUM BD. | SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX EGO |



| MATE | ERIAL ABBREVIATION LEGEND: |
|------|----------------------------|
| ACT | ACOUSTICAL CEILING TILE |
| В | WALL BASE |
| F | FLOOR FINISH |
| LVT | LUXURY VINYL TILE |
| Μ | MISC. FINISH |
| PLAM | PLASTIC LAMINATE |
| PNT | PAINT |
| PT | PORCELAIN TILE |
| СТ | CERAMIC TILE |
| RB | RUBBER BASE |
| SS | SOLID SURFACE |
| W | WALL FINISH |
| | |

DATA RAISED DATA FLOOR SYS SC SEALED CONCRETE

NUFACTURER SIS OF DESIGN

E OF OPTIONS PTIONS - 12 X 24 LOR TBD.

LLY/SOLDIER STACKED - COLOR TBD FROM FULL RANGE OF OPTIONS GG SHELL - 2 COATS MIN. PLUS PRIMER - COLOR TBD GG SHELL - 2 COATS MIN. PLUS PRIMER - COLOR TBD ER TO ELEVATIONS

F COLORS

HEAVY DUTY MTL. SUSPENSION SYSTEM - WHITE GG SHELL - 2 COATS MIN. PLUS PRIMER SW7007 CEILING BRIGHT WHITE

| A9.11 ROOM FINISH SCHEDULE | | | | | | | | | | | | | | |
|----------------------------|----------------------------------|----------|----------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------------|---------|---------------------------------------------------|
| | SPACE | FLO | OR | | | | | VALLS CEILIN | | | | | LING | |
| ROOM | | | | | NORTH | | EAST | | SOUTH | | WEST | _ | | |
| NO. | ROOM NAME | MAT. | FIN. | MAT. | FIN. | MAT. | FIN. | MAT. | FIN. | MAT. | FIN. | MAT. | FIN. | REMARKS |
| 01 | VEST | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
| 01 02 | CUST. STORAGE | SC | SC | GYP. | PNT-1 | GYP. | PNT-1 PNT-1 | GYP. | PNT-1 PNT-1 | GYP. | PNT-1 PNT-1 | GYP. | PNT | REFER TO FINISH PLANS FOR LVT LOCATIONS |
| 02 | MEN | CT | CT | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | WET WALLS TO HAVE WALL TILE FROM FLOOR TO CEILING |
| 03 04 | LOCKER | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | REFER TO FINISH PLANS FOR LVT LOCATIONS |
| 05 | WOMEN | CT | CT | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | WET WALLS TO HAVE WALL TILE FROM FLOOR TO CEILING |
| 06 | SERVER | • . | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | 1 1 1 1 | REFER TO SPECS. FOR DATA FLOORING SYSTEM |
| 07 | DISPATCH ROOM | | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-2 | ACT | | REFER TO SPECS. FOR DATA FLOORING SYSTEM |
| 08 | BREAKROOM/ CONFERENCE | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-2 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
| 09 | ELEV. | LVT | RB | MFR | MFR | MFR | MFR | MFR | MFR | MFR | MFR | MFR | | |
| 10 | STORAGE | SC | SC | CMU | PNT-1 | CMU | PNT-1 | CMU | PNT-1 | CMU | PNT-1 | GYP. | PNT | |
| 11 | MECH/ ELEC | SC | SC | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | |
| 12 | OFFICE | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
| 13 | OFFICE | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
| 14 | CORRIDOR | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
|)1 | ENTRY VESTIBULE | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | REFER TO FINISH PLANS FOR LVT LOCATIONS |
|)2 | CORRIDOR | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
|)3 | MAPPING OFFICE | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
|)4 | SIGN FABRICATION | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
|)5 | STORAGE | LVT | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | REFER TO FINISH PLANS FOR LVT LOCATIONS |
|)6)6 | WOMEN | CT | CT | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | WET WALLS TO HAVE WALL TILE FROM FLOOR TO CEILING |
| 07 | MEN | CT | CT | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | WET WALLS TO HAVE WALL TILE FROM FLOOR TO CEILING |
|)8 | CUST. | SC | SC | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT | WET WALLS TO THAVE WALL THE TROWT LOOK TO CEILING |
|)9 | FUTURE DATA | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| | FUTURE MECH/ELEC. | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 10 | TRANSPORT. | SC | RB | GYP. | PNT-1 PNT-1 | GYP. | PNT-1 PNT-1 | GYP. | PNT-1 PNT-1 | GYP. | PNT-1 PNT-1 | ACT | | |
| 11 | RECREATION DEPARTMENT | SC | RB | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | ACT | | |
| 12 13 | | SC | | | | GYP. GYP. | - | | | GYP. GYP. | PNT-1 PNT-1 | ACT | | |
| | | | RB | GYP. | PNT-1 | | PNT-1 | GYP. | PNT-1 | | | | | |
| 14 15 | ALCOHOL ENFORC. | SC | RB | GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | ACT ACT | | |
| 15 16 | COUNTRY CLERK SHERIFFS OFFICE | SC SC | RB RB | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | GYP. GYP. | PNT-1 PNT-1 | ACT | | |
| | | | | | | | | | | | | | | |
| 17 | BUILDING INSPECTIONS | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 8 | GIS MAPPING | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 9 | TAX ASSESSOR | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 20 | | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 21 | | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 22 | CLERK OF COURT | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 23 | PROBATE | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 24 | TBD | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |
| 25 | CORRIDOR | SC | RB | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | GYP. | PNT-1 | ACT | | |

FLOOR JOINT AT SLAB. SEE STRUCTURAL DWGS.

FLOOR JOINT AT SLAB. SEE STRUCTURAL DWGS.

A DENOTES SIGN TYPE "A"



1 LEVEL 01 FINISH FLOOR PLAN 1/8" = 1'-0"

 \triangleright

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| FLOOR FINISH LEGEND | | | | | | | | |
|---------------------|-----------------------|--------------------|----------------------------------------|--|--|--|--|--|
| LVT-1 | sc | | RAISED DATA ROOM FLOORING SYSTEM | | | | | |
| LVT-2 | СТ | | | | | | | |
| | XX-X — | ROOM | x | | | | | |
| | FLO CEILII XX-X | NG BASE XX- | x | | | | | |
| | | ANDARD H SYMBOL | | | | | | |

NOTES:

PRICING ONLY.

- 1. INSTALL TRANSITION STRIPS BETWEEN DISSIMILAR FLOOR FINISHES.
- 2. CONTRACTOR TO SUBMIT ALL FINISH SAMPLES TO ARCHITECT PRIOR TO ORDERING FOR VERIFICATION OF CORRECT PRODUCT AND COLOR.
- 3. REFER TO A6.11 FOR STOREFRONT FINISH.
- 4. FINISHES TO MEET FLAME SPREAD AND SMOKE DEVELOPED RATINGS PER CODE.
- 5. EXTEND FLOORING UNDER COUNTERTOPS AND BASE CABINETS UNLESS NOTED OTHERWISE.
- 6. CONTROL JOINTS ARE SHOWN FOR REFERENCE ONLY, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 7. PROVIDE SHOP DRAWINGS SHOWING ALL PROPOSED JOINT LAYOUTS IN TILE PRIOR TO INSTALLATION W/ A PRE-INSTALLATION CONFERENCE.
- 8. ALL FLOOR DRAINS ARE TO BE COVERED AND PROTECTED PRIOR TO ANY TILE OR OTHER FINISH FLOOR INSTALLATION, AND SHALL REMAIN COVERED AND PROTECTED THROUGH FINAL GROUTING AND CLEANING. ALL DRAINS MUST BE KEPT CLEAN AND FREE OF ANY CONSTRUCTION DEBRIS, MORTAR, GROUT, TOILET PARTITION SHAVINGS, ETC.
- 9. SAW-CUT CONTROL JOINTS IN EXISTING SLAB/FLOOR TO BE RELOCATED TO THE NEXT NEAREST GROUT JOINT WITH APPROVED CRACK ISOLATION MEMBRANE PER TCNA METHOD F125 PARTIAL.
- 10. ALL FINISHES AND PAINT LOCATIONS ARE PENDING FINALIZATION UNTIL AFTER OWNER FINISH MEETING. FOR

ALL FINISH COLOR SAMPLES SHALL BE PROVIDED AT THE JOB TRAILER FOR FINAL COLOR SELECTION. COLOR SLECTION WILL BE MADE BY THE OWNER AND ARCHITECT. SELECTION WILL NOT BE MADE UNTIL ALL FINISH COLOR SAMPLES HAVE BEEN PROVIDED FOR THE PROJECT.

PER NFPA 101 INTERIOR WALL AND CEILING FINISH MATERIALS SHALL COMPLY AND BE TESTED IN ACCORDANCE WITH ASTM E84 OR ANSI/UL 723 (2018 IBC SECTION 803). INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, OR ANSI/UL 723 STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS. SHALL COMPLY PER NFPA 101, SECTION 10.2 AT CORRIDORS, LOBBIES AND ENCLOSED STAIRWAYS INTERIOR WALL AND CEILING FINISH MATERIALS SHALL

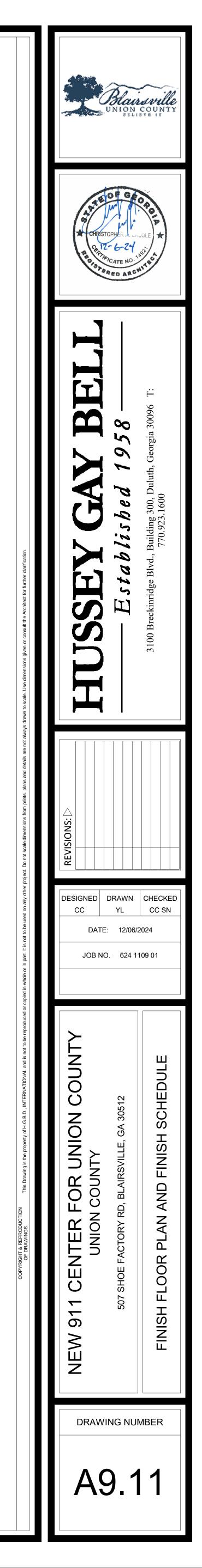
INTERIOR WALL AND CEILING FINISH MATERIALS

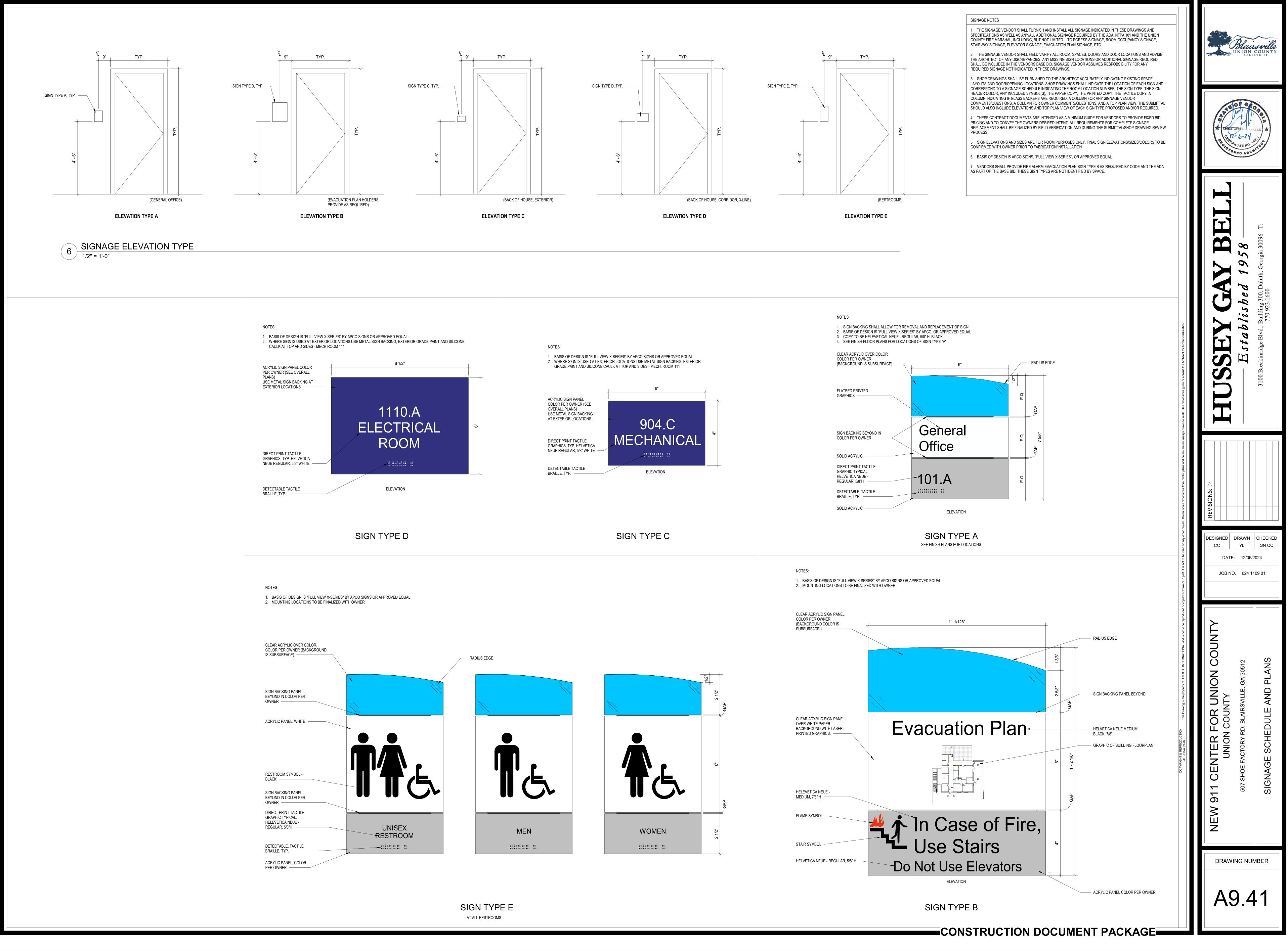
COMPLY WITH NFPA 101 SECTION 10.2 AND SHALL BE CLASS A OR CLASS B IN ALL CORRIDORS AND LOBBIES AND SHALL BE CLASS A IN ALL ENCLOSED STAIRWAYS. AT ASSEMBLY AREAS, INTERIOR WALL AND CEILING FINISH

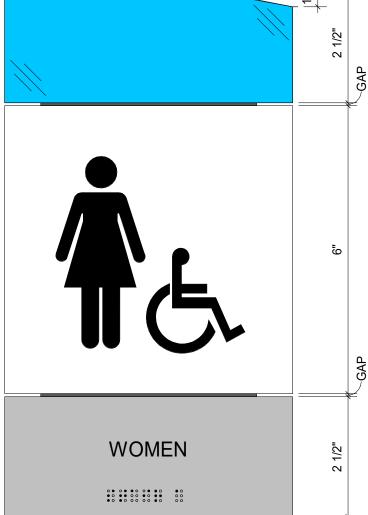
MATERIALS SHALL COMPLY WITH NFPA 101 SECTION 10.2 AND SHALL BE CLASS A OR CLASS B IN GENERAL ASSEMBLY AREAS HAVING OCCUPANT LOADS OF MORE THAN 300 AND SHALL BE CLASS A, CLASS B OR CLASS C IN ASSEMBLY AREAS HAVING OCCUPANT LOADS OF 300 OR FEWER.

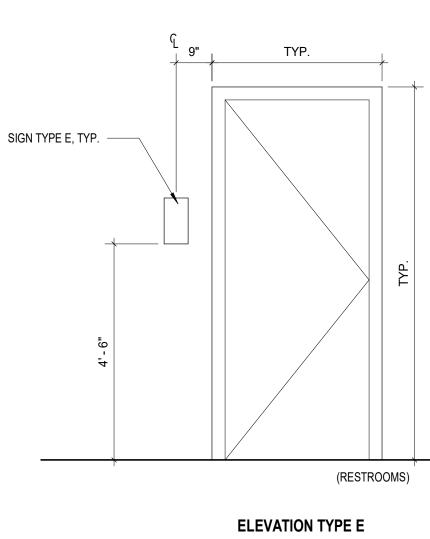
INTERIOR WALL MATERIAL FLAME SPREAD INDEX

ALL INTERIOR WALL COVERINGS AND FINISH MATERIALS INCLUDING LAMINATED PRODUCTS SHALL COMPLY WITH THE REQUIREMENTS FOR FLAME SPREAD INDEX IN ACCORDANCE WITH ASTM E84 OR UL 723 AS PER THE 2018 IBC SECTION 803









| I. RISK CATEGORY & IMPORTANCE FACTORS: A. RISK CATEGORY B. WIND FACTOR | | 1. THI AD 2. STI |
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| B. WIND FACTOR C. SNOW FACTOR D. SEISMIC FACTOR | . 1.2 | 2. STI CO DR |
| 2. DESIGN DEAD LOADS: A. FLOOR B. ROOF | | 3. NO API |
| B. DESIGN LIVE LOADS*: A. FLOOR: | | 4. NO OF |
| STAIRS STORAGE B. ROOF | . 125 PSF | 5. OP AR 6. THI |
| * LIVE LOADS ARE REDUCIBLE IN ACCORDANCE W | VITH THE BUILDING CODE. | STI TIM |
| A. ULTIMATE WIND SPEED B. DIRECTIONALITY FACTOR (Kd) C. EXPOSURE CATEGORY D. ENCLOSURE CLASSIFICATION | . 0.85 . C | 7. THI FUI CO |
| E. GUST EFFECT FACTOR (G) F. COMPONENT AND CLADDING LOADS (100 SQ. FT., | . 0.85 , ZONES ARE PER ASCE-7) ROOFS | 8. DO CO |
| ROOFS 10 FT ² 100 FT ² | WALLS | 9. CO OF 1 10. THI |
| ROOFS 10 FT ² 100 FT ² NEGATIVE ZONE 1 -58.5 PSF -45.7 PSF NEGATIVE ZONE 1' -33.6 PSF -33.6 PSF NEGATIVE ZONE 2 -77.2 PSF -60.7 PSF | 0.6h | CO |
| NEGATIVE ZONE 3 -105.2 PSF -72.3 PSF POSITIVE ALL ZONES 16.0 PSF 16.0 PSF | | AN 11. WH OR |
| OVERHANG ZONE 1&1' -52.9 PSF -49.8 PSF OVERHANG ZONE 2 -71.6 PSF -49.6 PSF OVERHANG ZONE 3 -99.6 PSF -61.2 PSF | | SH 12. AT |
| WALLS NEGATIVE ZONE 4 -36.4 PSF -31.5 PSF NEGATIVE ZONE 5 -44.8 PSF -34.9 PSF | | INC RE ME |
| POSITIVE ZONES 4 & 5 33.6 PSF 28.7 PSF REFERENCE ASCE 7 FOR EFFECTIVE WIND AREAS NOT LISTED. OTHERWISE, | h = 31'-0" | 13. CO CH) DR |
| USE THE SMALLEST APPLICABLE AREA. <u>GABI</u> | <u>& C WIND ZONES</u> <u>LES Ø ≤ 7°, h ≤ 60'-0"</u> <u>SLOPES ≤ 3°, h ≤ 60'-0"</u> | 14. THI AR |
| 5. EARTHQUAKE LOADS: A. SITE CLASS B. Ss = | 0.345 | 15. THI FLC |
| C. S1 = D. SDS = E. SD1 = | . 0.106 . 0.299 0.106 | 16. THI EN DO |
| F. SEISMIC DESIGN CATEGORY G. BASIC SEISMIC FORCE RESISTING SYSTEM = H. RESPONSE MODIFICATION COEFFICIENT, R = | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. | 17. STI MA |
| I. OVER-STRENGTH FACTOR (Ω0) J. DEFLECTION AMPLIFICATION FACTOR (Cd) K. SEISMIC RESPONSE COEFFICIENT (Cs) = | . 3.0 . 3.0 . 0.150 | 18. RE CO TEI |
| L. LONG PERIOD TRANSITION PERIOD (TL) M. ANALYSIS PROCEDURE N. DESIGN BASE SHEAR = | . EQUIVALENT LATERAL FORCE | OT 19. SEI THI |
| SNOW LOADS: A. GROUND SNOW LOAD B. FLAT ROOF SNOW LOAD (Pf) | . 8.4 PSF | AN 20. PR |
| C. THERMAL FACTOR (Ct) D. SNOW EXPOSURE FACTOR (Ce) E. RAIN ON SNOW SURCHARGE F. UNIFORM ROOF SNOW LOAD | . 1.0 . 1.0 . 5.0 PSF | SH, PR OF STI |
| 7. RETAINING WALLS: A. LATERAL PRESSURE METHOD | EQUIVALENT FLUID PRESSURE | FOUND |
| B. ACTIVE SOIL PRESSURE C. AT-REST SOIL PRESSURE D. COEFFICIENT OF FRICTION E. SOIL DENSITY (HEEL) | . 66 PCF 0.4 | 1. SPI KSI |
| | | AN |
| SPECIAL INSPECTIONS: | | 2. THI HO |
| | NCE WITH IBC SECTION 1704.2.4 SHALL BE SUBMITTED TO | 2. THI |
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. DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. R IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP ND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS. S OR MODIFICATIONS SHALL BE MADE IN OR TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN THE ARCHITECT

IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL -4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO

IRAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS. CTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON

FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE ADS ARE IMPOSED. JRE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR ALL THE TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE

R'S CONSTRUCTION METHODS AND/OR SEQUENCES. E THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL OCUMENTS, SEE ARCHITECTURAL DRAWINGS.

R'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

CTOR SHALL INFORM THE PROFESSIONAL OF RECORD. IN WRITING, OF ANY DEVIATION FROM THE OCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION ESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR CALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION CHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

CTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE ONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR NGS AND WORK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, AFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE AT THE JOB SITE OR ORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS. CHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZE AND EXTENT OF ERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL

L CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE HALL BE NOTIFIED OF ANY DISCREPANCIES. CTOR SHALL VERIFY ALL FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENT WEIGHTS AS WELL AS

OR ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CTOR SHALL NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ED IN THE FIELD WHICH ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT

. CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY EPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.

TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO ICAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR PECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED

CTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. CTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

PENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR NE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS AND HE SHALL ALL OPENINGS WHETHER SHOWN ON THE DRAWINGS OR NOT. HE SHALL VERIFY SIZE AND L INGS WITH THE MECHANICAL CONTRACTOR. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE . DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL

TINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 3.0 VIDUAL COLUMN FOOTINGS AND 3.0 KSF FOR CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE LIVE

S HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. ADEQUATE BEARING CAPACITY IS NON-EXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING WERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS. AY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.

FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZES AND DIMENSIONS, AS SHOWN ON PLANS. ALL SOIL S AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE EVEL PLANE BEFORE PLACING CONCRETE.

OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY ING UNSUITABLE MATERIALS AS IDENTIFIED BY THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE NY FILL MATERIAL REQUIRED AT THE SITE SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CAL INVESTIGATION REPORT AND APPROVED BY A SOILS ENGINEER. ROCKS OF A DIAMETER GREATER PECIFIED SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN ACCORDING TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND COMPACTED TO A AXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE TY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE.

NCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING RIOR TO CASTING THE CONCRETE.

MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE FERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION. ISFACTORY OR UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON UNIT PRICES SET FORTH IN THE CONTRACT.

L SHALL BE AN EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE, CONFORMING TO THE ITS OF ASTM STANDARD C33, AND HAVING A GRADATION AS FOLLOWS:

| 100 % PASSING | A 3/4" SIEVE |
|-----------------|----------------|
| 10-30 % PASSING | . A 1/2" SIEVE |
| 0-10 % PASSING | . A 3/8" SIEVE |
| 0-5 % PASSING | . A #4 SIEVE |
| | |

HIN 10'-0" OF THE BUILDING LIMIT SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL OR PREPARATION. OUND AND OVER FOUNDATION ELEMENTS SHALL BE OF SUITABLE MATERIAL, INSPECTED AND PRE-

BY THE TESTING ENGINEER.

AINST WALLS SHALL BE PLACED IN 8 INCH LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE . UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS UPON TOP AND BOTTOM SLABS/FOUNDATION FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED GIGN COMPRESSIVE STRENGTH. WALLS WITH SLAB-ON-GROUND AT THE TOP OF THE WALL SHALL BE RED AND BRACED DURING BACKFILLING.

OPE OF EXCAVATIONS SHALL BE IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT AND . PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY IT CAVING

STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

TINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT EVATION. BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN

ROM THE ENGINEER

AST ON SLOPING SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

DESIGN IS BASED ON THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION EMBER 5, 2024 AS PREPARED BY GEO-HYDRO ENGINEERS, PROJECT NO. 242482.20".

IITTALS

UBMITTALS ARE DEFINED AS THE FOLLOWING PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD: _ STAIRS & LADDERS -FORMED METAL FRAMING RAILS & GUARDS I LINK FENCE

ED SUBMITTALS SHALL BE APPROVED BY THE PROJECT ARCHITECT AND/OR ENGINEER OF RECORD. THE UBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN BY THE BUILDING OFFICIAL.

2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING: FOOTINGS, SLABS ON GRADE & ELEVATED SLABS.. RETAINING WALLS, BASEMENT WALLS, DEEP FDN. & COLUMN/PIERS... 4500 PSI

CONCRETE:

3. ALL CONCRETE SHALL HAVE A DENSITY OF 150 PCF UNLESS NOTED OTHERWISE.

- 4. CONCRETE SHALL BE ENTRAINED AS REQUIRED TO CONFORM TO DURABILITY REQUIREMENTS OF ACI 318. 5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR ALL UNIQUE CONCRETE APPLICATIONS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL BE CERTIFIED BY AN ENGINEER
- REGISTERED IN THE PROJECT STATE. MIX DESIGN TEST DATA SHALL COMPLY WITH ACI 318 AND SHALL INCLUDE (AT A
- MINIMUM) AVERAGE 28 DAY STRENGTH, NUMBER OF SAMPLES, AND STANDARD DEVIATION (IF APPLICABLE). TEST RESULTS SHALL NOT BE MORE THAN 24 MONTHS OLD AT TIME OF SUBMITTAL.
- 6. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE. 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 60.
- 8. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/SLAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES AND ENDS. 9. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF
- THE ACI DETAILING MANUAL
- 10. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
- 11. REINFORCEMENT LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 (CLASS "B" WHERE APPLICABLE), UNLESS NOTED OTHERWISE. ALL CONTINUES REINFORCEMENT SHALL BE SPLICED AS REQUIRED.
- 12. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS, AS SHOWN ON TYPICAL BAR PLACING DETAILS.
- 13. PROVIDE 3" X 6" X 20 GAGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS-ON-GRADE.
- 14. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 15. PRODUCTS AND MATERIALS: A. TYPE I/II PORTLAND CEMENT SHALL CONFORM TO ASTM-C150. B. AGGREGATES SHALL CONFORM TO ASTM C-33. REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60). FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION. E. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER. F. NON-SHRINK GROUT SHALL BE READY TO USE NON-METALLIC AGGREGATE AND DEVELOP A 7-DAY COMPRESSIVE STRENGTH OF 5000 PSI.
- 16. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST ADDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE"
- 17. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH....... 3 INCHES CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER. #5 BARS AND SMALLER. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - BEAMS AND COLUMNS. SLABS, WALLS, AND JOISTS...
- 18. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER'S APPROVAL. WHERE WELDING IS APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL.
- 19. SLAB-ON-GRADE SHALL BE SAW CUT IMMEDIATELY AFTER CONCRETE HARDENS. THE CONTRACTOR SHALL SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT CUT" ® INTERNATIONAL OR SIM.)
- 20. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP IF CUT WITH A CONVENTIONAL SAW, OR 1" DEEP IF CUT WITH AN EARLY-ENTRY DRY-CUT SAW. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE.
- 21. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO THE SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME. SEVERAL SAWS MAY BE REQUIRED SO THAT JOINTS ARE PLACED IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF THE SLAB IS CRITICAL. REFER TO THE ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
- 22. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
- 23. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117, SLAB CLASS 5 (ACI 302) STANDARD TEST METHOD USING F NUMBERS. THE SPECIFIC FLATNESS AND LEVELNESS SHALL BE F/F-35 AND F/L-20. 24. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER
- BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING, UNLESS NOTED OTHERWISE 25. PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL
- CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
- 26. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE ACI 318.
- 27. PROVIDE CONTROL/CONSTRUCTION JOINTS IN CANTILEVERED CONCRETE WALLS AT A MAXIMUM SPACING OF TWICE THE HEIGHT OF THE WALL ABOVE THE TOP OF FOOTING. MAXIMUM JOINT SPACING SHALL NOT EXCEED 24'-0". CONTROL JOINTS SHALL HAVE A 3/4" DEEP BY 1-1/2" WIDE TAPERED REVEAL AT EACH SIDE OF THE WALL. AT CONTROL JOINTS, EVERY OTHER HORIZONTAL BAR SHALL BE CUT BACK 1-1/2" FROM THE CONTROL JOINT. CONSTRUCTION JOINTS SHALL BE FORMED SIMILARLY TO CONTROL JOINTS. AT CONSTRUCTION JOINTS, ALL HORIZONTAL STEEL SHALL BE DISCONTINUOUS AND A DOWEL BAR OF SIZE AND SPACING TO MATCH THE HORIZONTAL REINFORCING SHALL BE EMBEDDED A MINIMUM OF 40 BAR DIAMETERS AT EACH SIDE OF THE CONSTRUCTION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL JOINT TREATMENT.

| CONCRETE REINFORCEMENT LAP LENGTH SCHEDULE | | | | | | | | |
|--------------------------------------------|-------------------|-------|-----------|---------|-----------------|-------|--|--|
| BAR | r f'c = 3,000 PSI | | f'c = 4,0 | 000 PSI | f'c = 4,500 PSI | | | |
| SIZE | TOP BARS | OTHER | TOP BARS | OTHER | TOP BARS | OTHER | | |
| #3 | 28" | 22" | 25" | 19" | 23" | 18" | | |
| #4 | 38" | 29" | 33" | 25" | 31" | 24" | | |
| #5 | 47" | 36" | 41" | 31" | 38" | 30" | | |
| #6 | 56" | 43" | 49" | 37" | 46" | 35" | | |
| #7 | 81" | 63" | 71" | 54" | 67" | 51" | | |
| #8 | 93" | 72" | 81" | 62" | 76" | 59" | | |
| NOTES | S: | | | | | | | |

- 1. WHERE THE CLEAR SPACING BETWEEN BARS BEING SPLICED IS LESS THAN (2) BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
- 2. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%.
- 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS. 4. LAP SPLICE LENGTHS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE LAP SPLICE
- LENGTHS BY 30%.
- 5. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED
- 6. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINED TWO MATTS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

METAL FLOOR DECK:

- 1. METAL FLOOR DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE SPECIFICATIONS AND
- COMMENTARY FOR STEEL FLOOR DECK, CURRENT EDITION. 2. THE STEEL DECK WORK SHALL CONSIST OF FURNISHING EVERYTHING (LABOR, MATERIALS, ACCESSORIES, AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- EQUIPMENT, ETC.) NECESSARY AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF ALL STEEL DECK WORK. 3. SUBMIT PLACEMENT AND DETAILED ("SHOP") DRAWINGS FOR REVIEW. NO STEEL DECK SHALL BE INSTALLED UNTIL
- THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 4. STEEL DECK UNITS SHALL BE OF SUFFICIENT LENGTH TO ACCOMMODATE THREE SPAN INSTALLATION. 5. PROVIDE CLOSURES AT SIDES, ENDS, AROUND COLUMNS, AND AT ALL OTHER PLACES WHERE LOSS OF CONCRETE IS POSSIBLE. ALL CLOSURES SHALL BE CONSTRUCTED OF 16 GAGE STEEL, UNLESS NOTED OTHERWISE.
- 6. STEEL DECK AND CLOSURES SHALL BE GALVANIZED, HAVING A COATING OF 0.5 OUNCES/S.F. AND CONFORMING TO ASTM A-525. 7. SHEAR CONNECTORS SHALL BE 3/4" DIAMETER HEADED STUDS WHICH WILL BE 3-1/2" LONG AFTER INSTALLATION,
- UNLESS NOTED OTHERWISE. THEY SHALL BE INSTALLED USING AUTOMATIC END WELDERS OF SUFFICIENT CAPACITY.
- TO WELD THEM THROUGH THE STEEL DECK TO THE TOP FLANGE OF THE BEAM, AS SHOWN IN THE TYPICAL DETAILS .. 8. THE DECK SHALL BE CONNECTED BY THE SHEAR CONNECTORS, TYPICALLY, AND WHERE INSUFFICIENT
- CONNECTORS ARE SPECIFIED, WELDING WASHERS SHALL BE ADDED TO THOSE FLUTES.
- 9. WHERE ONE OR TWO SPAN UNITS OF STEEL DECK ARE USED, THEY SHALL BE SHORED AT THEIR MIDPOINTS PRIOR TO CASTING CONCRETE
- 10. THE CONTRACTOR SHALL FURNISH 7% ADDITIONAL CONCRETE TO COMPENSATE FOR THE DEFLECTION OF THE METAL DECK.

1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318 (LATEST ADDITION)

3000 PSI

2 INCHES

1-1/2 INCHES 1-1/2 INCHES

3/4 INCHES

MASONRY:

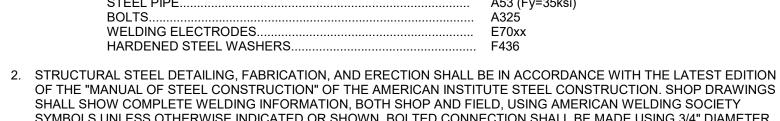
- 1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 530 (LATEST EDITION)
- 2. MASONRY SHALL BE LIGHTWEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH, fm, OF 1500 PSI BASED ON GROSS AREA. MORTAR SHALL CONFORM TO ASTM C270 TYPES S OR M. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8".
- 3. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
- 4. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM COLD DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE.
- 5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
- 6. CONTROL JOINTS SHALL BE LOCATED IN THE INTERIOR WALLS FOR THE BUILDING AT A SPACING NOT EXCEEDING 0.67 TIMES THE WALL HEIGHT (30 FEET MAX). JOINTS SHALL, AT A MINIMUM, BE LOCATED AT INTERSECTING WALLS AND JAMBS/LINTELS OF OPENING IN WALL.
- 7. GROUTED CELLS WITH VERTICAL REINFORCEMENT SHALL BE LOCATED ADJACENT TO CONTROL OR EXPANSION JOINTS.
- 8. ALL REINFORCED CELLS AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID. 9. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE. IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN
- THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING. 10. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
- 11. VERTICAL BARS SHALL BE HELD IN POSITION WITH PRE-MANUFACTURED TIES AT TOP AND BOTTOM AND AT
- INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING NOR 10 FEET. 12. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
- 13. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS
- UNOBSTRUCTED CELL AREA NOT LESS THAN 2-1/2" X 3". 14. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
- 15. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
- 16. ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION.
- 17. WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE CELLS SHALL BE FULLY GROUTED AT LEAST 8" ABOVE AND BELOW EACH BOLT OR ANCHOR. 18. REINFORCING SHALL BE LAPPED A MINIMUM OF 36 INCHES. U.N.O.
- 19. WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTINGS SHALL BE 12" THICK AND HAVE A MINIMUM OF 4" PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (3) #5 BARS CONTINUOUS.
- 20. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES.

STRUCTURAL STEEL

1. CODE: LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ANSI/AISC 360. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

| WIDE FLANGE SHAPES ALL CHANNELS, ANGLES, PLATES, ETC. (UNO) STRUCTURAL TUBES | A36 (Fy=36ksi) |
|------------------------------------------------------------------------------------|----------------|
| ANCHOR BOLTS | |
| STEEL PIPE | |
| BOLTS | A325 |
| WELDING ELECTRODES | E70xx |

HARDENED STEEL WASHERS.

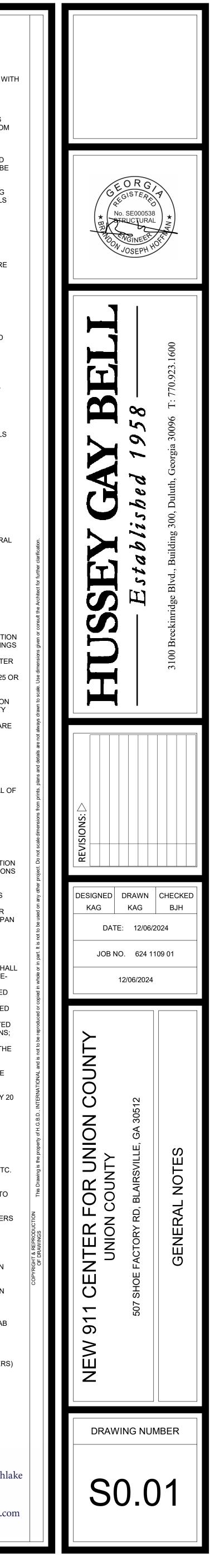


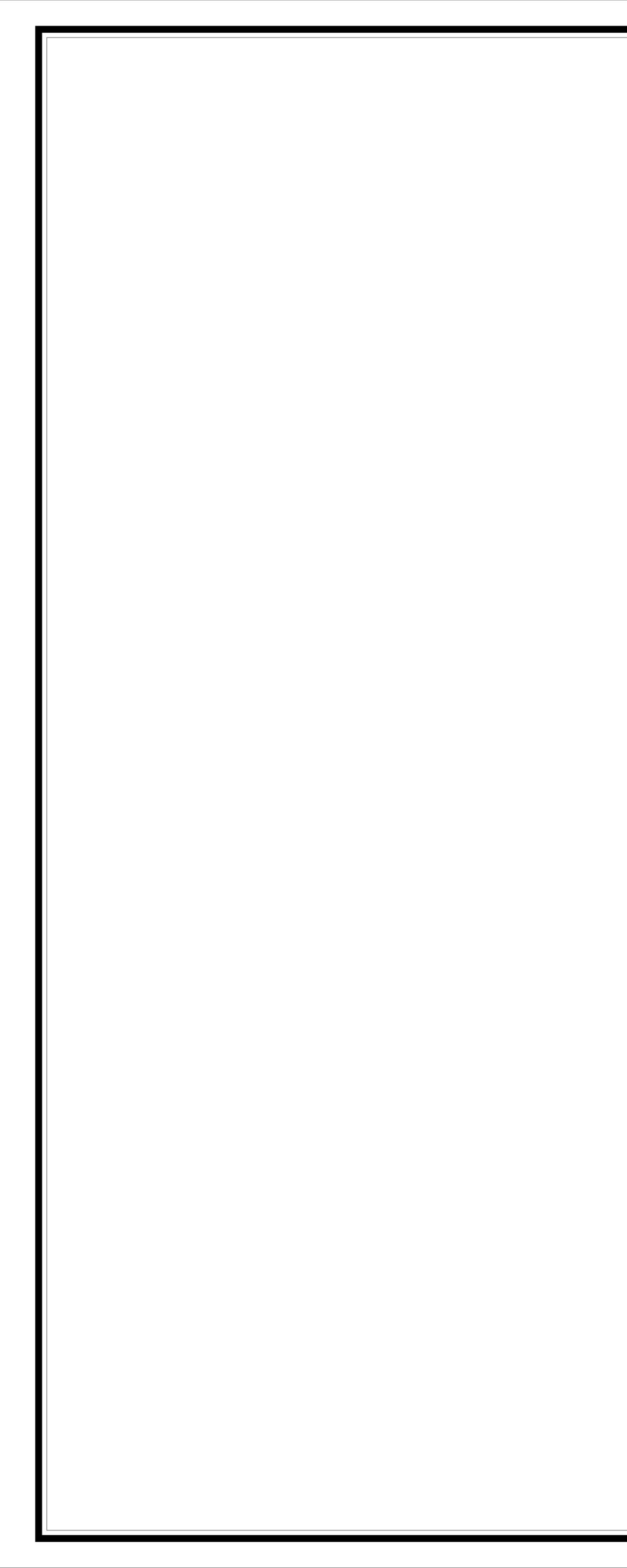
- OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE STEEL CONSTRUCTION. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED OR SHOWN, BOLTED CONNECTION SHALL BE MADE USING 3/4" DIAMETER BOLTS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN STRICT CONFORMANCE WITH LATEST EDITION RSCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- 3. THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE SHEAR WALLS & BRACED/MOMENT FRAMES FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT.
- 4. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN, SEE SPECIFICATIONS.
- 5. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- 6. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS. 7. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY, ANCHOR BEAMS TO
- MASONRY WITH TWO 3/4" DIAMETER ANCHOR BOLTS WITH A 1'-4" EMBEDMENT. 8. WHERE BEAMS INTERSECT AT THE TERMINATING ELEVATION OF A COLUMN, THE BEAM WITH THE GREATEST REACTION SHALL BEAR ON TOP OF THE COLUMN. WHERE THE BEAMS INTERSECT AT THE INTERMEDIATE ELEVATION
- OF A COLUMN, THE FRAMING BEAMS SHALL BE CONNECTED TO THE COLUMNS WITH A WT. FIN PLATE CONNECTIONS ARE NOT PERMITTED. 9. CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING:
 - A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE CONSTRUCTION DOCUMENTS.
 - B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION. WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH
- CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION. D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL
- BE 3/4". MAX. DIA. 1-1/8". PROVIDE AT LEAST 2 BOLTS PER CONNECTION. TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD. E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS SIMPLE, UNRESTRAINED
- BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED. F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS DESIGN OF SPECIAL CONNECTIONS BETWEEN STEEL FRAMING COMPONENTS, INCLUDING BUT NOT LIMITED TO: BRACE END CONNECTIONS; MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS; AND MEMBER SPLICE CONNECTIONS, DESIGNED BY ANYONE OTHER THAN THE PROJECT STRUCTURAL
- ENGINEER-OF-RECORD, SHALL BE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. 10. MOMENT CONNECTIONS (SHOWN ON THE PLANS) SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY OF THE
- BEAMS BEING CONNECTED. "CPW" INDICATES COMPLETE PENETRATION WELD. 11. TENSILE CONNECTIONS SHALL BE DESIGNED FOR A FORCE RESULTING FROM MULTIPLYING THE GROSS AREA BY 20
- 12. STEEL STAIRS SHALL BE DESIGNED AND DETAILED BY A SPECIALTY ENGINEER.
- 13. FABRICATE AND ERECT FLOOR MEMBERS WITH NATURAL CAMBER UP.
- 14. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE SIZE OF WELDS SHALL NOT BE SMALLER THAN 1/4".
- 15. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
- 16. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 17. PROVIDE STIFFENERS TO BEAR UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS, ON ALL MEMBERS FRAMING OVER COLUMNS, AT BEAM COLUMN JOINTS (AS REQUIRED BY THE AISC SPECIFICATIONS) AND WHERE SHOWN ON THE DRAWINGS.
- 18. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATIONS OF LOOSE LINTELS.
- 19. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- 20. ALL HORIZONTAL TUBES REQUIRE AN END PLATE AT EACH END WITH A THICKNESS EQUAL TO OR GREATER THAN THE TUBE'S WALL THICKNESS.
- 21. SHORING OF FLOOR MEMBERS TO CONTROL SLAB THICKNESS, FLOOR LEVEL AND OTHER TOLERANCES, AND CONCRETE PONDING IS THE CONTRACTOR'S OPTION. FLOORS SHALL BE CAST SO AS TO MAINTAIN UNIFORM SLAB THICKNESS ACROSS THE TOP OF STEEL MEMBERS.
- 22. FOR ALL COMPOSITE BEAMS USING CONCRETE SLAB AS COMPRESSIVE FLANGE, THE BEAM-TO-COLUMN CONNECTION SHOULD DEVELOP THE END REACTION OF THE CONNECTED BEAM. THE END REACTION OF THE CONNECTED BEAM CAN BE OBTAINED BY MULTIPLYING UNIFORM LOADS AS GIVEN IN PART 3 (BEAMS AND GIRDERS) OF THE AISC MANUAL OF STEEL CONSTRUCTION, BY THE FOLLOWING FACTORS:





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METAL STUDS AND JOISTS (COLD FORM FRAMING)

- A. SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE INCLUDING PLACEMENT
- PLANS, ELEVATIONS, AND SECTIONS. a. INCLUDE LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING;
- b. INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING,
- B. CALCULATIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR REVIEW BY ENGINEER OF RFCORD
- C. PRODUCT CATALOG WITH PROPERTIES OF ALL FRAMING AND ACCESSORIES.
- 2. DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO LATEST ADDITION OF THE AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" INCLUDING SUBSEQUENT SUPPLEMENTS. ALL METAL STUDS SHALL BE GALVANIZED.
- 3. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" UNLESS NOTED OTHERWISE.
- 4. ALL PRODUCTS TO BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL MANUFACTURERS ASSOCIATION.
- 5. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS PREPARED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRAPPING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
- 6. MEMBER SIZE. GAGE AND SPACING OF EXTERIOR WALL STUDS AND ALL MEMBERS CONNECTIONS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. SUBMIT CALCULATIONS FOR MEMBERS AND CONNECTIONS WITH SHOP DRAWINGS (SIGNED AND STAMPED BY LICENSED STRUCTURAL ENGINEER IN THE STATE IN WHICH THE PROJECT WILL BE CONSTRUCTED) TO ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS SHALL SHOW WALL SECTIONS COORDINATED WITH DRAWINGS SHOWING FRAMING, ACCESSORIES, ANCHORAGE AND CONNECTION DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITHTHE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY
- DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN COLD-FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND CONDITIONS INDICATED BELOW. A. DESIGN LOADS: AS INDICATED ON DRAWINGS OR COMPUTED USING DESIGN CRITERIA PROVIDED. B. DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING
 - a. EXTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT, 1/360 OF THE WALL HEIGHT FOR SIMULATED STONE WALLS OR STUCCO FINISHES, 1/600 FOR BRICK OR STONE VENEER WALLS.
 - b. INTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A HORIZONTAL LOAD OF 5 LBF/SQ. FT.
 - FOR TOTAL LOADS OF THE SPAN.
- SHEATHING MATERIALS. FOR STRENGTH CALCULATIONS, WALLS SHALL BE DESIGNED AS BRACED AT THE STRAP SPACING (OR UNBRACED IF NO STRAPS ARE DESIGNATED) IF FULL-HEIGHT STRUCTURAL SHEATHING IS NOT INSTALLED ON BOTH SIDES OF STUDS. STRUCTURAL SHEATHING IS LIMITED TO PLYWOOD AND OSB. SHEATHING, BRIDGING, AND BRACING SHALL BE INSTALLED PRIOR TO VERTICAL LOAD OF LOAD BEARING WALLS.
- 9. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATED BUILDING ENVELOPE WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120 DEG F (67 DEG C).
- 10. PROVIDE TEMPORARY SHORES, GUYS, BRACES, AND OTHER SUPPORTS DURING ERECTION TO KEEP STRUCTURAL FRAMING SECURE, PLUMB, AND IN ALIGNMENT AGAINST TEMPORARY CONSTRUCTION LOADS EQUAL IN INTENSITY TO DESIGN LOADS. REMOVE TEMPORARY SUPPORTS WHEN PERMANENT STRUCTURAL FRAMING CONNECTIONS AND BRACING ARE IN PLACE, UNLESS OTHERWISE INDICATED.
- 11. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS (INCLUDES SLIP TRACKS, SLIP CLIPS, & BYPASS CLIPS): A. UPWARD AND DOWNWARD MOVEMENT EQUALS 1/240 TIMES THE SPAN OF THE UPPER BOUND PRIMARY STRUCTURAL ELEMENT (BEAM).
- 12. MINIMUM MEMBER SIZES ARE AS FOLLOWS: FLANGE THICKNESS (MILS) S (STUD) 162 T (TRACK) 200
- 13. MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 20 TO 18 GAUGE (33 TO 43 MILS) SHALL BE 33 KSI. MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 16 TO 12 GAUGE (54 TO 97 MILS) SHALL BE 50 KSI.
- 14. ALL STUDS BACKING MASONRY OR STONE VENEER SHALL BE 43 MILS MIN.
- 15. THE QUANTITY OF STUDS OR JOISTS PLACED ON EACH SIDE OF OPENINGS SHALL BE DESIGNATED BY THE SPECIALTY ENGINEER. (2) STUDS MIN. EACH SIDE OF OPENING.
- 16. SELF-DRILLING TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 OR AN APPROVED DESIGN OR RECOGNIZED DESIGN STANDARD. ALL SCREWS SHALL BE NON-CORROSIVE NO. 12-14 STANDARD SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).
- 17. ALL POWDER ACTUATED FASTENERS (PAF) SHALL BE 0.157" MIN. DIAMETER POWDER ACTUATED FASTENERS. 18. ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. MIN.
- EDGE DISTANCE FOR SCREWS SHALL BE 1".
- SHALL BE CONNECTED TO TRACKS AT EACH SIDE.
- SPLICE ELEMENT.
- 21. ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEED WELDER PER ASTM A-108. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.3, LATEST EDITION. DO NOT WELD SHAPES LESS THAN 68 MILS (14 GAUGE).
- 22. APPLY ZINC COATING TO ALL WELDS. 23. SHOP- FABRICATE ALL FRAMING MEMBERS FOR FIELD BOLTED ASSEMBLY. THE SURFACES OF THE BOLTED CONNECTIONS MUST BE SMOOTH AND FREE FROM BURRS OR DISTORTIONS.

STEEL JOISTS:

- "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES" OF THE STEEL JOIST INSTITUTE (SJI). 2. STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE
- RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ALL STEEL JOISTS. JOIST DESIGNATIONS ON THE STRUCTURAL DRAWINGS REPRESENT A TYPICAL JOIST FOR A UNIFORM SPACING AND LOADING. THE JOIST MANUFACTURER SHOULD DESIGN & PROVIDE SPECIAL (KSP) JOISTS INTERACTING WITH ROOF MOUNTED MECHANICAL UNITS OR THAT HAVE CONCENTRATED OR NON-UNIFORM LOADS FROM A DIFFERENT SOURCE. CONTRACTOR SHALL SEND INFORMATION TO THE ARCHITECT GIVING THE SIZE AND OPERATING WEIGHT OF THE UNIT ACTUALLY PURCHASED FOR VERIFICATION PRIOR TO FABRICATION OF BAR JOISTS OR ROOF DECK. SEE ADDITIONAL ATYPICAL LOADING PROVIDED ON THE STRUCTURAL FRAMING PLAN.
- UNLESS OTHERWISE NOTED, STEEL JOISTS SHALL BE DESIGNED AS SIMPLY SUPPORTED UNIFORMLY LOADED TRUSSES WITH THE TOP CHORD BRACED AGAINST LATERAL BUCKLING. THE UNIFORM DESIGN LOAD SHALL BE THE TOTAL SAFE UNIFORMLY DISTRIBUTED LOAD AS SHOWN IN THE SJI STANDARD LOAD TABLE.
- 4. WHEN NET UPLIFT FORCES DUE TO WIND ARE SHOWN ON THE DRAWINGS, THE MANUFACTURER SHALL DESIGN THE JOISTS, BRIDGING, AND CONNECTIONS OF THE JOISTS TO THE SUPPORTING STRUCTURE FOR THE NET UPLIFT. A SINGLE LINE OF BOTTOM CHORD BRIDGING MUST BE PROVIDED NEAR THE FIRST BOTTOM CHORD PANEL POINTS WHENEVER UPLIFT DUE TO WIND FORCES IS SHOWN ON THE DESIGN DRAWINGS.
- 5. WHEN NON-UNIFORM OR CONCENTRATED LOADS ARE SHOWN ON THE DRAWINGS, THE MANUFACTURER SHALL DESIGN THE JOISTS IN ACCORDANCE WITH THE SJI STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIES
- 6. STEEL JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE SJI SPECIFICATION. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE PLACED AND STEEL JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS. COORDINATE BRIDGING LOCATIONS TO AVOID INTERFERENCE WITH ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT.
- 7. MINIMUM BEARING REQUIREMENTS FOR K-SERIES JOISTS, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: A. ON STRUCTURAL STEEL.. B. ON STEEL BEARING PLATES OVER MASONRY OR CONCRETE... 4 INCHES
- 8. UNLESS NOTED OTHERWISE, K-SERIES STEEL JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK OR STEEL BEARING PLATES WITH TWO 1/8" FILLET WELDS (ONE EACH SIDE), 2" LENGTH MINIMUM, OR WITH (2) 1/2" DIAMETER BOLTS (ONE EACH SIDE).
- 9. MINIMUM BEARING REQUIREMENTS FOR LH-SERIES JOISTS, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: A. ON STRUCTURAL STEEL. B. ON STEEL BEARING PLATES OVER MASONRY OR CONCRETE.... 6 INCHES
- 10. UNLESS NOTED OTHERWISE, LH-SERIES STEEL JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK OR STEEL BEARING PLATES WITH TWO 1/4" FILLET WELDS (ONE EACH SIDE), 2" LENGTH MINIMUM, OR WITH (2) 3/4" DIAMETER BOLTS (ONE EACH SIDE).
- 11. STEEL JOISTS AT COLUMN CENTER LINES SHALL BE BOLTED TO STRUCTURAL STEEL WITH (2) 1/2" DIAMETER BOLTS. WHERE STEEL JOISTS DO NOT SPACE TO COLUMN CENTER LINES, USE BOLTED CONNECTIONS FOR THE STEEL JOIST CLOSEST TO THE CENTER LINE.
- 12. HOLES IN STEEL JOIST CHORDS WILL NOT BE PERMITTED, EXCEPT FOR BOLTED CONNECTIONS AT THE BEARING END OF THE STEEL JOIST.
- 13. ALL THE ITEMS SUCH AS MECHANICAL EQUIPMENT, DUCT WORK, PIPES, CEILING FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE STEEL JOISTS SHALL BE FRAMED WITH AUXILIARY FRAMING TO THE PANEL POINTS OF THE STEEL JOISTS. METHODS OF FRAMING THAT INDUCE BENDING TO THE STEEL JOIST CHORDS OR WEB MEMBERS WILL NOT BE PERMITTED.
- 14. CONTRACTOR SHALL COORDINATE LOCATION OF JOISTS AND MASONRY WALLS TO PREVENT INTERFERENCE. 15. EXTEND JOIST BOTTOM CHORD TYPICALLY AT COLUMN LINES. DO NOT WELD BOTTOM CHORD UNTIL ROOF DEAD
- LOAD IS IN PLACE.
- FOR REPAIRING AND/OR REPLACING DAMAGED MEMBERS. IF REPAIRS ARE MADE, A LETTER BEARING THE SEAL OF A REGISTERED ENGINEER MUST BE PROVIDED BY THE JOIST MANUFACTURER APPROVING SUCH REPAIRS.

1. CONTRACTOR SHALL SUBMIT THE FOLLOWING AS A COMPLETE PACKAGE, DELAYED SUBMITTAL:

FABRICATION; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.

FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.

c. CEILING JOIST FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE SPAN FOR LIVE LOADS AND 1/240

8. DESIGN WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF

19. TRACKS SHALL BE CONNECTED TO SUPPORTS WITH TWO SCREWS OR PINS AT 16" O.C. MAX. STUDS OR JOISTS

20. ALL BRIDGING MUST BE CONTINUOUS FOR FULL LENGTH OF WALL OR PROPERLY SPLICED WITH AN APPROVED

1. STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE

2-1/2 INCHES

4 INCHES

16. DAMAGED MEMBERS WILL BE REJECTED. THE CONTRACTOR AND THE JOIST MANUFACTURER ARE RESPONSIBLE

POST-INSTALLED ANCHORS:

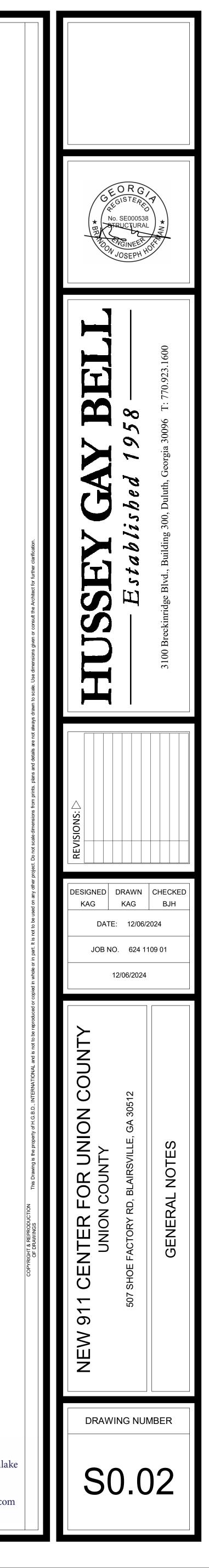
- 1. POST-INSTALLED ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. POST-INSTALLED ANCHORS SHALL NOT BE USED FOR MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS WITHOUT PERMISSION FROM THE ENGINEER OF RECORD.
- 2. TESTING, SCANNING, AND LOCATING OF EXISTING REINFORCEMENT IS REQUIRED PRIOR TO INSTALLATION OF POST-INSTALLED ANCHORS TO AVOID INTERFERENCE AND/OR DAMAGE TO IN-PLACE REINFORCEMENT.
- 3. SUBSTITITION REQUESTS FOR SPECIFIED POST-INSTALLED ANCHORS SHALL BE ACCOMPANIED BY ADEQUATE CALCULATIONS BY A ENGINEER LICENSED IN THE PROJECT STATE THAT THE REQUESTED ANCHOR MEETS OR EXCEEDS THAT OF WHAT IS SPECIFIED.
- 4. MECHANICAL ANCHORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.2 QUALIFICATION OF POST INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY. 5. ADHESIVE ANCHOR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION
- OF ACI 355.4 QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (355.4) AND COMMENTARY. BULKMIXED (E.G., BUCKET-MIXED) ADHESIVES ARE NOT PERMITTED. 6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.
- 7. CONCRETE AT TIME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS. FOR INSTALLATION OF ADHESIVE ANCHORS IN CONCRETE HAVING AN AGE LESS THAN 21 DAYS, TESTS SHALL BE
- CONDUCTED TO VERIFY THE PERFORMANCE OF THE PRODUCT IN ACCORDANCE WITH ACI 355.4. 8. THE CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER TEMPERATURES.
- 9. ADHESIVE ANCHORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII) AS SUPPLIED WITH THE ADHESIVE, ADHESIVE CARTRIDGE, MIXING NOZZLE, EXTENSION TUBE, DISPENSER, AND ALL REQUIRED EQUIPMENT FOR PROPERLY CLEANING THE DRILLED HOLE.
- 10. ALL-THREADED ROD (EYEBOLTS, THREADED STUDS, INTERNAL THREADED PARTS) TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36. F1554 OR OTHER APPROVED ANCHOR ASSEMBLY TYPES. (STAINLESS STEEL ANCHOR RODS SHALL BE AISI TYPE 304 OR TYPE 316.) THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHERWISE. COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. WITH HOT-DIPPED GALVANIZED RODS, USE OVERSIZED TAPPED, HOT-DIPPED GALVANIZED NUTS.
- 11. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM OR WITH A MECHANICAL EXPANSION ANCHOR SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT IS COMPATIBLE WITH THE ANCHOR ROD/ALLOY, GALVANIZED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. ELECTROPLATE GALVANIZING IS NOT ACCEPTABLE. DISSIMILAR METAL ASSEMBLIES SHALL BE SEPARATED BY NYLON, EPDM, OR OTHER APPROVED NON-METALLIC WASHERS.
- 12. REINFORCING BARS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES OR AS POST-INSTALLED REINFORCING SHALL CONFORM TO ASTM A615, A706, A995, OR A1035
- 13. THE EMBEDMENT DEPTH SPECIFIED SHALL BE DEFINED AS THE DEPTH FROM THE BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED.
- 14. ADHESIVE CARTRIDGES SHALL BE STORED UNDER CONDITIONS IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS REGARDING TEMPERATURE, EXPOSURE TO SUNLIGHT, ETC. AND EVIDENCE OF COMPLIANCE SHALL BE MADE AVAILABLE UPON REQUEST. THE USE OF EXPIRED ADHESIVE, AS INDICATED BY THE EXPIRATION DATE ON THE CARTRIDGE, IS PROHIBITED.
- 15. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE SPECIFICATIONS (ALT: CONTRACT DOCUMENTS), BOTH POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
- 16. ADHESIVE ANCHORS WITH DIAMETER GREATER THAN 3/8- INCH INSTALLED IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL SHALL EMPLOY A PISTON PLUG FOR THE ADHESIVE INJECTION.
- 17. INSTALLATION OF ADHESIVE ANCHORS IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT.
- 18. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE EXPANSION AND/OR ADHESIVE ANCHOR INCLUDING, BUT NOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN-OUT BRUSHES, BLOWOUT BULBS, OIL-FREE COMPRESSED AIR, VACUUMS, WRENCHES, ETC.
- 19. UNLESS OTHERWISE SPECIFIED, ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR, WHERE NOT OTHERWISE PROSCRIBED, A ROCK DRILL. WHERE SPECIFIED AND WHERE PERMITTED BY THE MPII, HOLES MAY BE DRILLED WITH A DIAMOND CORE DRILL. IN ALL CASES, THE BIT DIAMETER SHALL BE IN ACCORDANCE WITH THE MPII.
- 20. ANCHOR HOLES SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE MPIL PRIOR TO ADHESIVE INJECTION.
- 21. DRILLED AND CLEANED ANCHOR HOLES SHALL BE PROTECTED FROM CONTAMINATION AND WATER (E.G. RAIN) UNTIL THE ADHESIVE IS INSTALLED.
- 22. A DRILLED ANCHOR HOLE SHALL BE RE-CLEANED JUST PRIOR TO ADHESIVE INJECTION IF, IN THE OPINION OF THE ENGINEER, INSPECTOR, OR OWNER'S REPRESENTATIVE, THE HOLE HAS BECOME CONTAMINATED AFTER INITIAL CLEANING.
- 23. ADHESIVE SHALL BE INJECTED IN ACCORDANCE WITH THE MPII USING EQUIPMENT AND PROCEDURES AS SPECIFIED THEREIN FOR THE SPECIFIC CONDITIONS ASSOCIATED WITH THE INJECTION. THIS SHOULD BE CLEARLY SPECIFIED IN THE MPII, IF NOT, ANOTHER PRODUCT SHOULD BE SPECIFIED.
- 24. ANCHOR ELEMENTS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT. OR OTHER COATINGS. THREADS ON THE PROJECTING PORTION OF THE ANCHOR ELEMENT SHALL BE PROTECTED FROM ADHESIVE CONTAMINATION.
- 25. INSTALLED ADHESIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. ANCHORS DISPLACED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

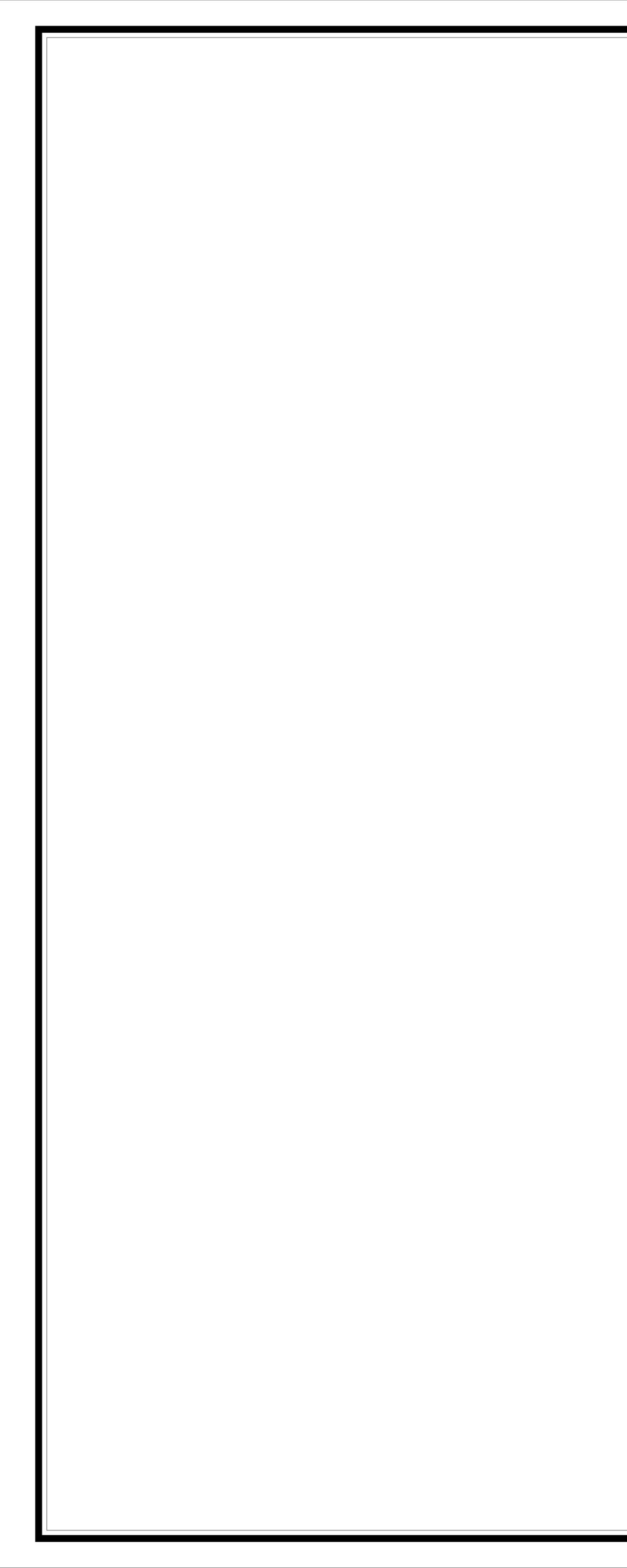
26. POST-INSTALLED REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED.

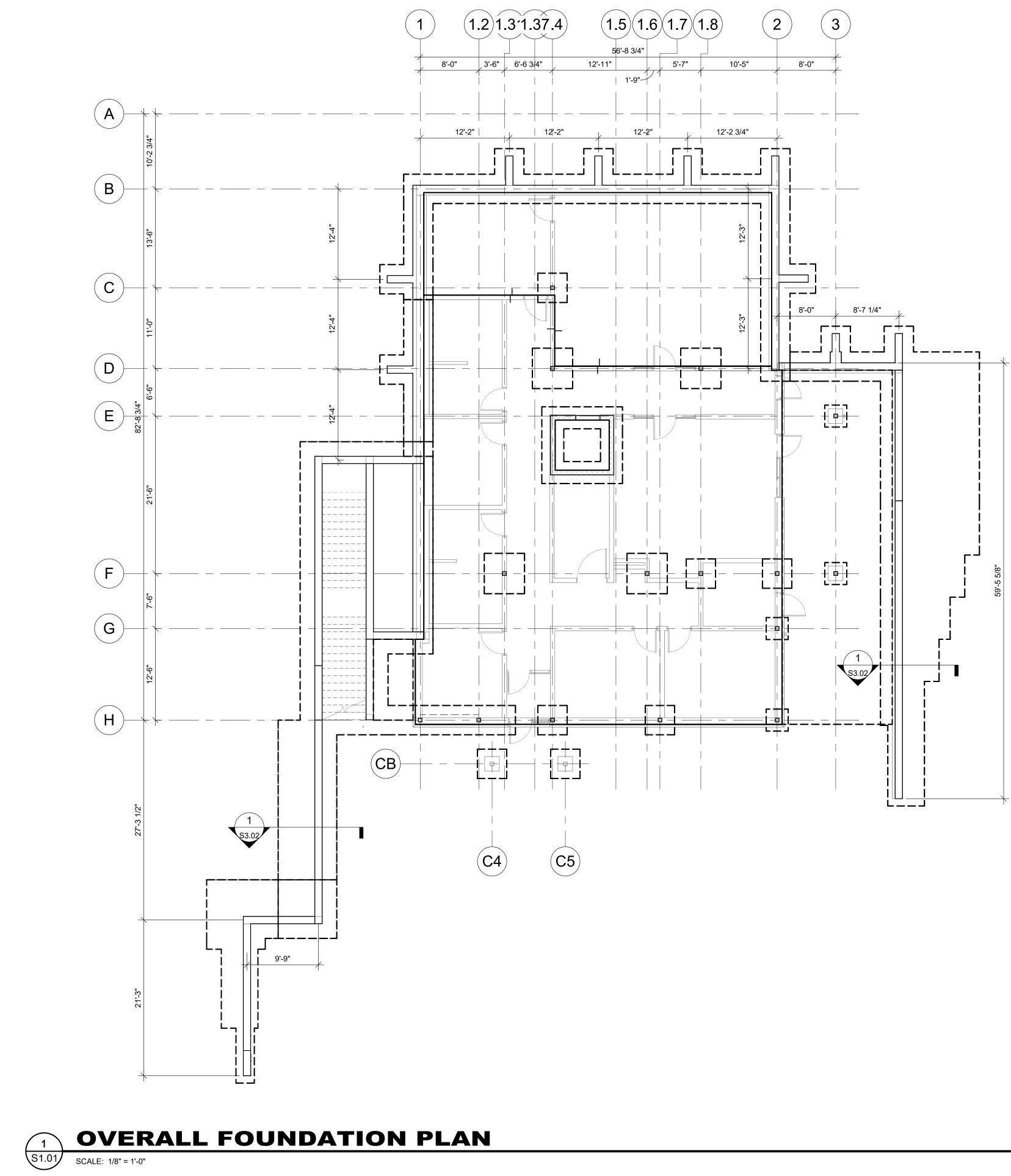
- SUSPENSION FROM ROOF STRUCTURE:
- 1. SUBCONTRACTORS INSTALLING CONDUIT, PIPING, OR EQUIPMENT SUSPENDED FROM THE STRUCTURE SHALL ATTEND A PRE-CONSTRUCTION MEETING.
- 2. ATTACHMENT TO METAL DECK, BRIDGING OR JOIST STRUTS IS PROHIBITED.
- 3. HANGER ATTACHMENT TO STEEL BAR JOIST: A. PIPE HANGERS SHALL BE ATTACHED TO BOTTOM CHORDS OF JOISTS AT PANEL POINTS WITH APPROVED STEEL WASHER PLATES AND DOUBLE NUTS ONLY IF CONCENTRATED LOADS ARE SHOWN ON THE STRUCTURAL DRAWINGS
- B. PIPE HANGERS SHALL BE ATTACHED TO TOP CHORDS OF BAR JOISTS AT PANEL POINTS WITH APPROVED UNDER DECK "C"-CLAMPS. C. IF HANGERS CANNOT BE INSTALLED WITH 3" OF PANEL POINTS, THE JOIST SHALL BE REINFORCED AS SHOWN ON
- STRUCTURAL DRAWINGS. 4. PIPE HANGERS SHALL BE ATTACHED TO BOTTOM FLANGES OF WIDE FLANGE BEAMS, I-BEAMS, AND CHANNELS WITH APPROVED "BEAM CLAMPS" AND "CHANNEL CLAMPS".
- 5. ALL SINGLE OR MULTIPLE TIER CABLE TRAYS, PIPE RACKS OR GROUPS OF DUCTS PERPENDICULAR TO THE JOISTS SHALL BE SUPPORTED FROM EACH BAR JOIST AND BEAM. SUCH A SYSTEM PARALLEL TO JOISTS SHALL BE ATTACHED TO TWO ADJACENT JOISTS AT 8'-0" O.C.
- 6. INDIVIDUAL PIPES UP TO 6" IN DIAMETER SHALL BE SUPPORTED FROM ALTERNATE JOISTS WHEN PIPES ARE PERPENDICULAR TO THE JOIST AND AT 10'-0" O.C., MAXIMUM, WHEN PIPES ARE PARALLEL TO THE JOISTS. INDIVIDUAL PIPES LARGER THAN 6" SHALL BE SUPPORTED AT EACH BAR JOIST WHEN PIPES ARE PERPENDICULAR TO THE JOIST AND AT 10'-0" O.C., MAXIMUM, WHEN PIPES ARE PARALLEL TO THE JOISTS.
- 7. HANGERS SHALL BE ADDED AT PANEL POINTS AT ALL LOCATIONS WHERE VALVES OR FITTINGS OCCUR.
- 8. ROUTING OF PIPES AND CONDUIT SHALL BE COORDINATED BY THE CONTRACTOR
- METAL ROOF DECK:
- 1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK, CURRENT EDITION. 2. THE STEEL DECK WORK SHALL CONSIST OF FURNISHING EVERYTHING (LABOR, MATERIALS, ACCESSORIES,
- EQUIPMENT, ETC.) NECESSARY AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF ALL STEEL DECK WORK AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- 3. SUBMIT PLACEMENT AND DETAILED ("SHOP") DRAWINGS FOR REVIEW. NO STEEL DECK SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 4. STEEL DECK UNITS SHALL BE OF SUFFICIENT LENGTH TO ACCOMMODATE THREE SPAN INSTALLATION PER STANDARDS ESTABLISHED BY THE STEEL DECK INSTITUTE.
- 5. METAL ROOF DECK SHALL BE OF THE CONFIGURATION, DEPTH AND MINIMUM GAUGE SHOWN ON THE DRAWINGS. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWINGS, AS A MINIMUM. SEE ROOF PLAN NOTES
- 6. DO NOT HANG OR SUPPORT ANY LOADS FROM THE METAL DECK.
- 7. WHERE POSSIBLE, METAL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS. TWO SPAN DECK SHALL BE USED ONLY WHERE DECK LAYOUT DOES NOT PERMIT THE USE OF THREE SPANS. SINGLE SPAN DECK IS NOT PERMITTED.
- 8. ROOF OPENINGS LESS THAN 6" SQUARE OR DIAMETER REQUIRE NO REINFORCEMENT. OPENINGS 6" TO 10". INCLUSIVE. SHALL BE REINFORCED WITH A 20 GAUGE GALVANIZED PLATE WELDED TO THE DECK AT EACH CORNER. AND 6" MAXIMUM CENTERS WITH A 5/8" DIAMETER PUDDLE WELD OR SHEET METAL SCREWS. SEE DRAWINGS FOR REINFORCEMENT OF OPENINGS LARGER THAN 10".



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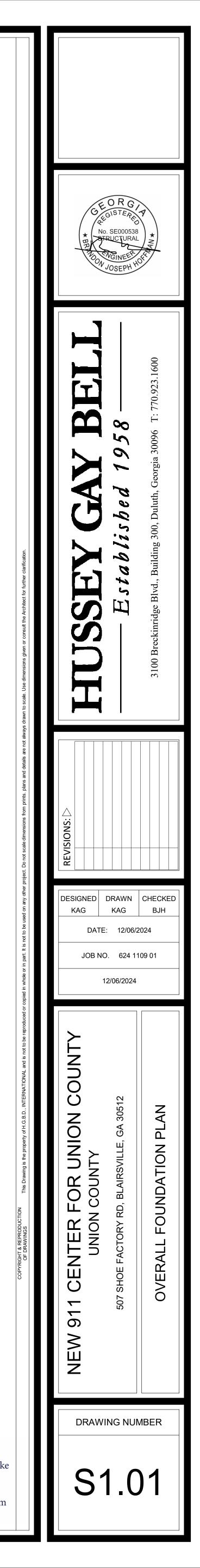


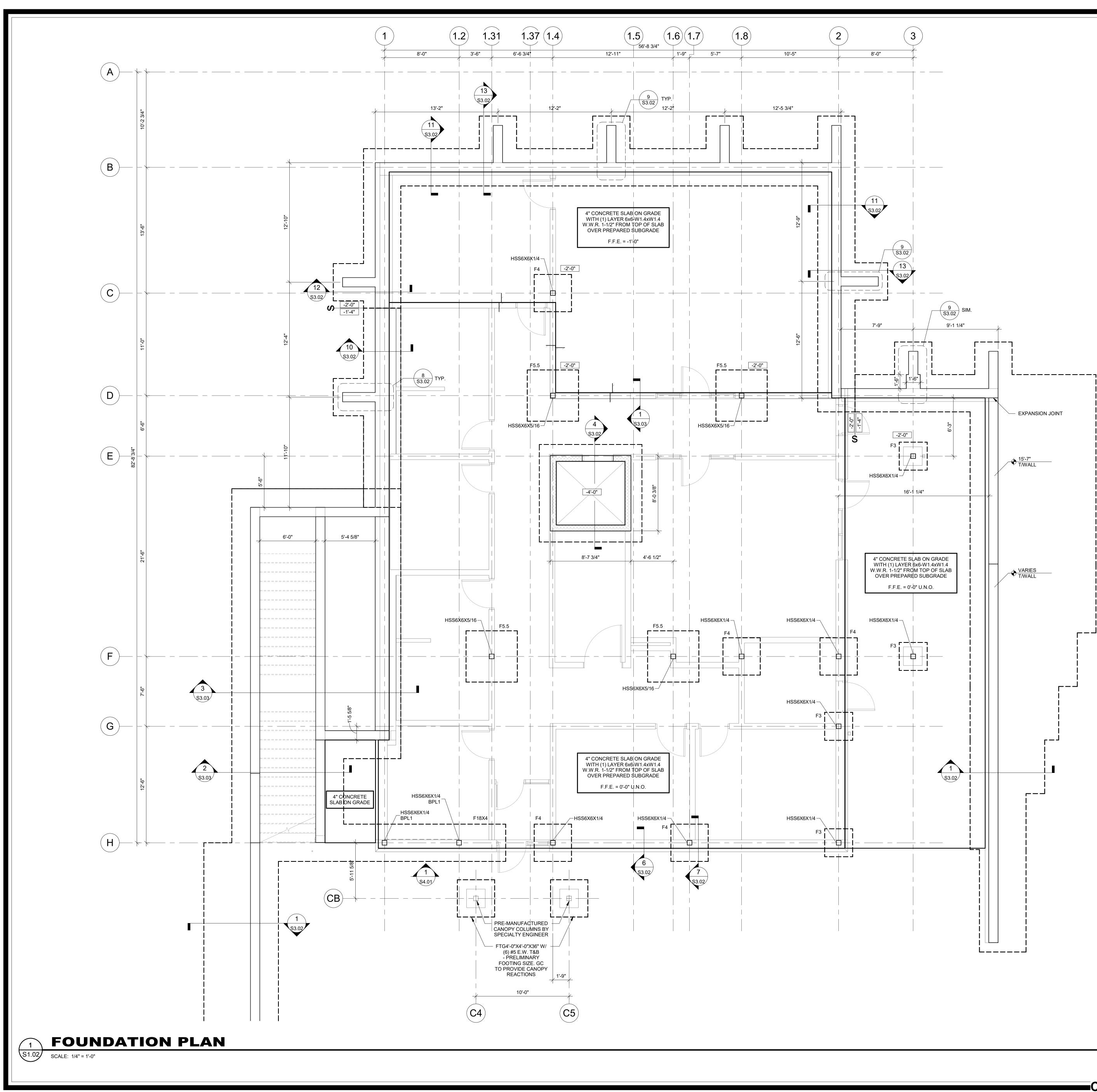






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FOUNDATION PLAN NOTES:

- TOP OF ALL EXTERIOR FOOTINGS SHALL BE -1'-4" BELOW FINISHED FLOOR, U.N.O.
 TOP OF ALL INTERIOR FOOTINGS SHALL BE -0'-8" BELOW FINISHED FLOOR, U.N.O.
- REFER TO ARCH'L AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, EXTERIOR SLABS, DRAINAGE, RAMPS, STEPS, WALKS, ETC.
 BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE
- MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADINGS. FOOTINGS SHALL BE CENTERED ON THE CENTER INFORTHE MALL AND/C
- FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE WALL AND/OR COLUMNS, U.N.O.
 COORDINATE LOCATION OF LOWERED FOOTINGS WITH PLUMBING DRAWINGS.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
- REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF SLAB AND FOUNDATION PENETRATIONS.
 THICKEN SLAB TO MAINTAIN THE SLAB THICKNESS AROUND FLOOR BOXES AND CONDUIT
- CONDUIT.

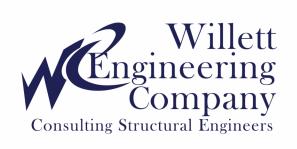
FOUNDATION PLAN LEGEND

-X'-XX"

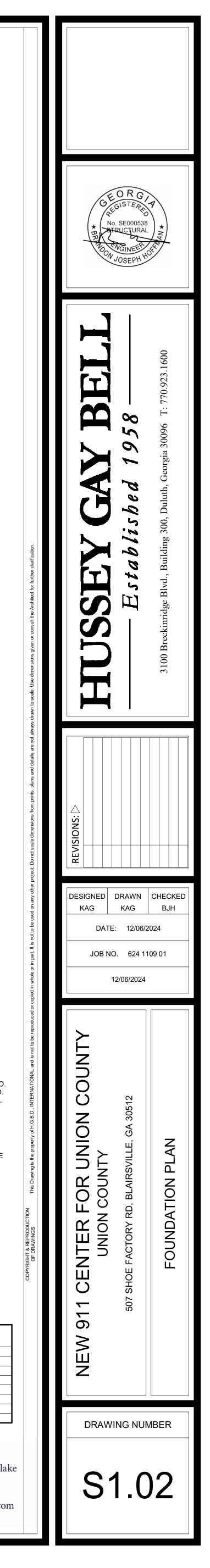
INDICATES STEP IN FOUNDATION (SEE STEPPED FOOTING DETAIL)
 INDICATES ATYPICAL TOP OF FOOTING ELEVATION

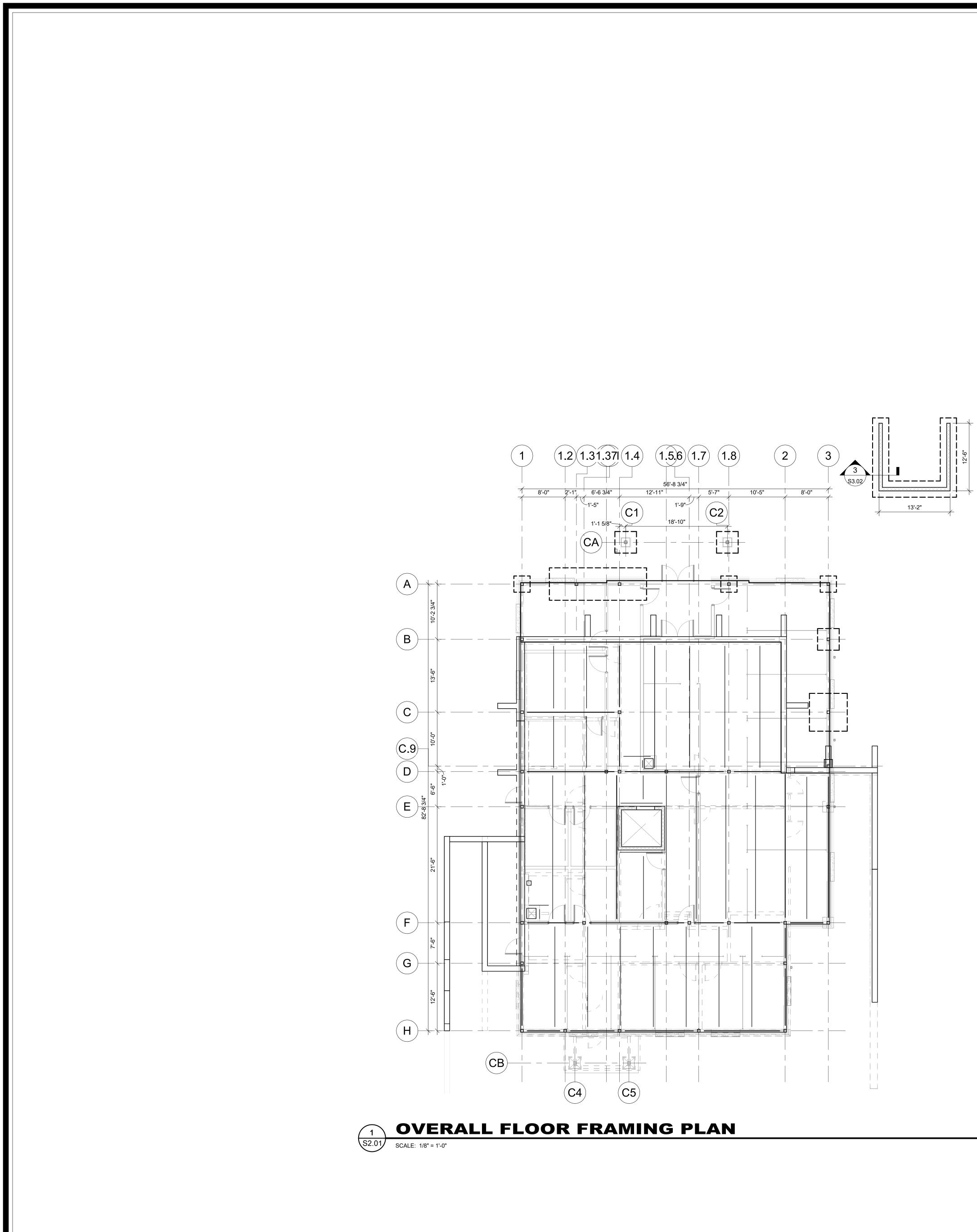
INDICATES A STEP IN THE SLAB ON GRADE

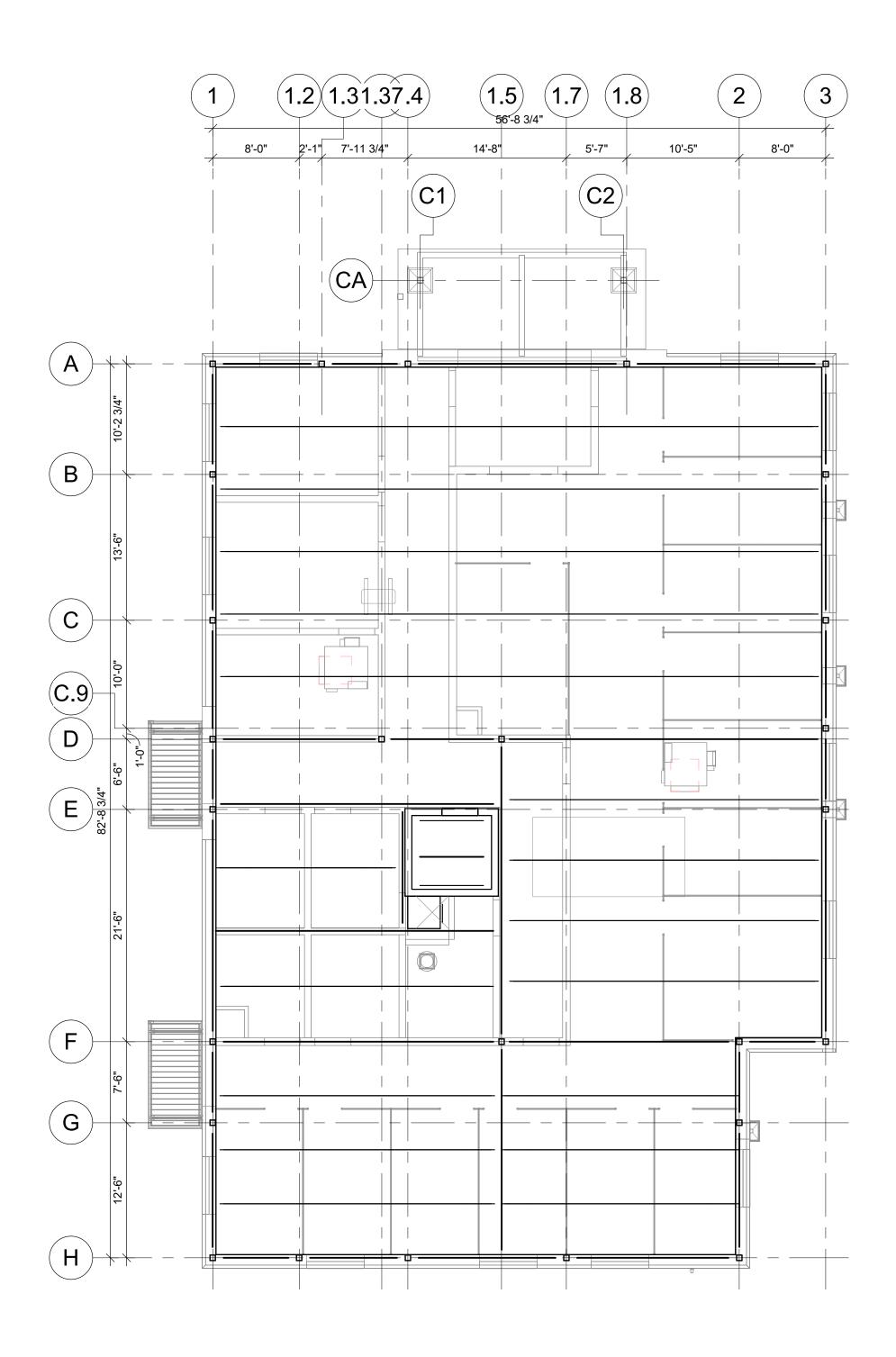
| | | FOOTING | <u>SCHEDULE</u> | |
|-------|----------|---------|-----------------|------------------------|
| MARK | LENGTH | WIDTH | THICKNESS | REINFORCEMENT |
| 4 | 4' - 0" | 4' - 0" | 3' - 0" | (5) #5 E.W. |
| F3 | 3' - 0" | 3' - 0" | 1' - 4" | (4) #5 E.W. |
| F4 | 4' - 0" | 4' - 0" | 1' - 4" | (5) #5 E.W. |
| F5.5 | 5' - 6" | 5' - 6" | 1' - 4" | (7) #5 E.W. |
| F7 | 7' - 0" | 7' - 0" | 1' - 4" | (8) #5 E.W. |
| F18X4 | 18' - 0" | 4' - 0" | 1' - 4" | #5 @ 10" O.C. E.W. T&B |
| F18X6 | 18' - 0" | 6' - 0" | 1' - 4" | #5 @ 10" O.C. E.W. T&B |



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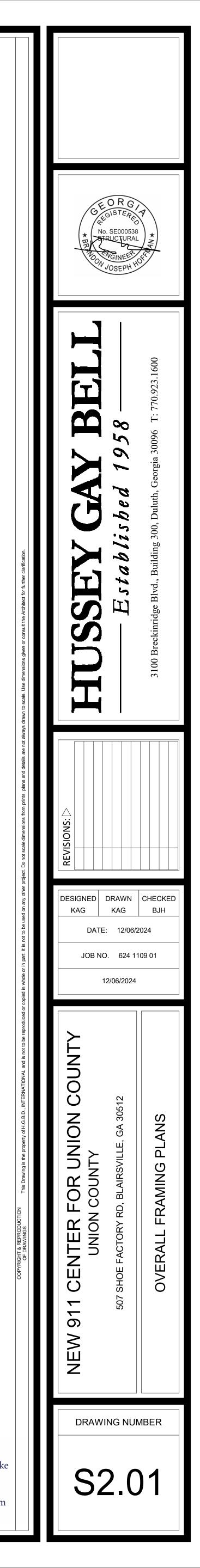


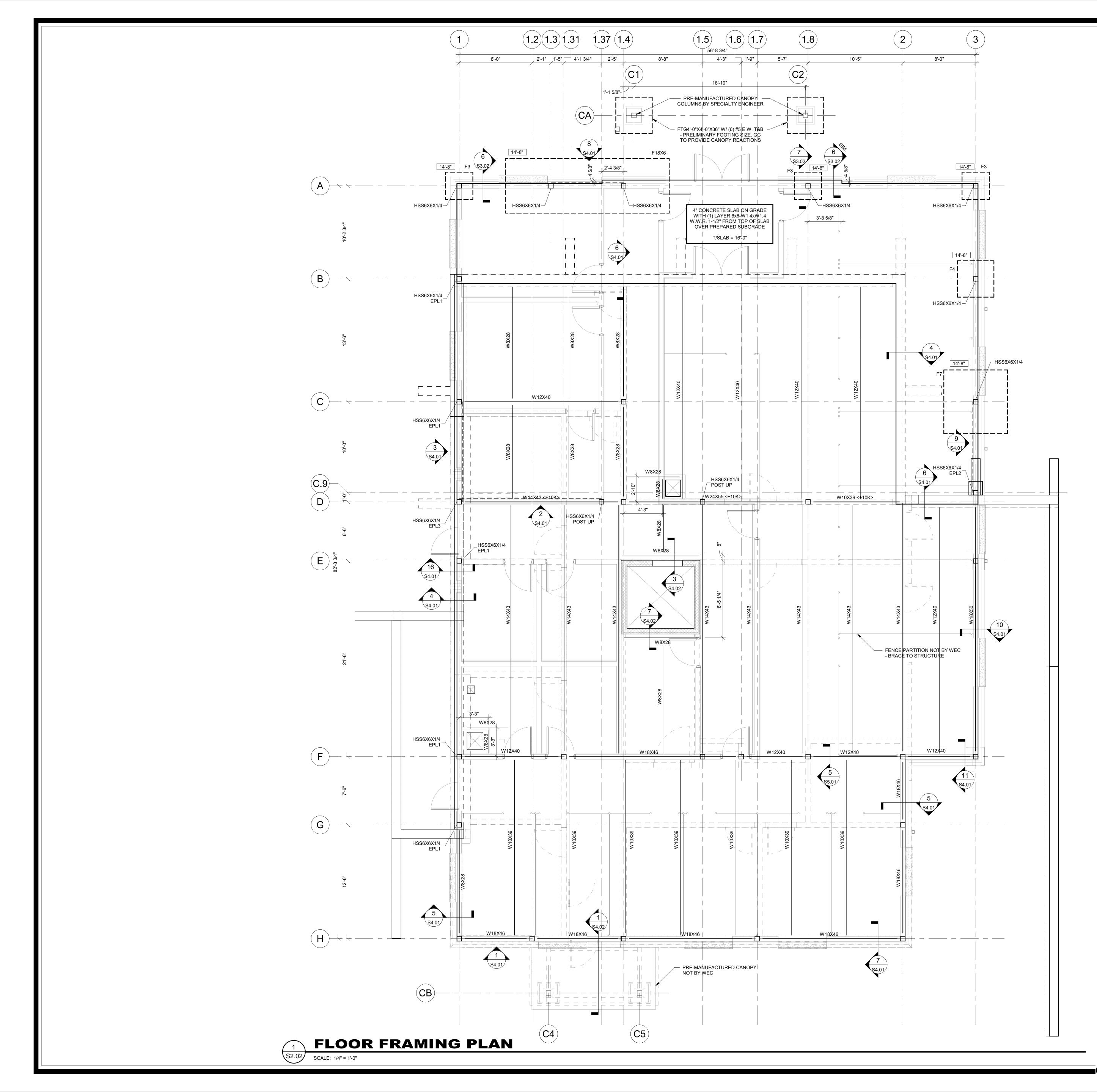


OVERALL ROOF FRAMING PLAN 2 S2.01 SCALE: 1/8" = 1'-0"



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FOUNDATION PLAN NOTES:

- 1. TOP OF ALL EXTERIOR FOOTINGS SHALL BE -1'-4" BELOW FINISHED FLOOR, U.N.O. 2. TOP OF ALL INTERIOR FOOTINGS SHALL BE -0'-8" BELOW FINISHED FLOOR, U.N.O.
- 3. REFER TO ARCH'L AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER,
- CURBS, EXTERIOR SLABS, DRAINAGE, RAMPS, STEPS, WALKS, ETC. 4. BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE
- MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADINGS. 5. FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE WALL AND/OR
- COLUMNS, U.N.O.
- 6. COORDINATE LOCATION OF LOWERED FOOTINGS WITH PLUMBING DRAWINGS. 7. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE
- SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS. 8. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF
- SLAB AND FOUNDATION PENETRATIONS. 9. THICKEN SLAB TO MAINTAIN THE SLAB THICKNESS AROUND FLOOR BOXES AND CONDUIT.

FOUNDATION PLAN LEGEND

INDICATES STEP IN FOUNDATION (SEE STEPPED FOOTING DETAIL) -X'-XX" INDICATES ATYPICAL TOP OF FOOTING ELEVATION

INDICATES A STEP IN THE SLAB ON GRADE

| | | FOOTING | <u>SCHEDULE</u> | |
|-------|----------|---------|-----------------|------------------------|
| MARK | LENGTH | WIDTH | THICKNESS | REINFORCEMENT |
| 4 | 4' - 0" | 4' - 0" | 3' - 0" | (5) #5 E.W. |
| F3 | 3' - 0" | 3' - 0" | 1' - 4" | (4) #5 E.W. |
| F4 | 4' - 0" | 4' - 0" | 1' - 4" | (5) #5 E.W. |
| F5.5 | 5' - 6" | 5' - 6" | 1' - 4" | (7) #5 E.W. |
| F7 | 7' - 0" | 7' - 0" | 1' - 4" | (8) #5 E.W. |
| F18X4 | 18' - 0" | 4' - 0" | 1' - 4" | #5 @ 10" O.C. E.W. T&B |
| F18X6 | 18' - 0" | 6' - 0" | 1' - 4" | #5 @ 10" O.C. E.W. T&B |

FLOOR FRAMING PLAN NOTES

- DECK SHALL BE 3" NW CONCRETE ON 2" VLI 22 GA. GALV. COMPOSITE METAL DECK (5" TOTAL THICKNESS) U.N.O. W/ (1) LAYER 6x6:W2.1xW2.1 WWR 1-1/2" BELOW T/SLAB. BEAMS SHALL BE SPACED AT 6'-6" O.C. MAX. ATTACH DECK TO SUPPORTING MEMBER WITH 5/8" DIA. PUDDLE WELDS IN A 36/4 PATTERN WITH (2) #10 SCREWS PER SIDELAP. 2. T/SLAB = 16'-0" U.N.O.
- 3. DO NOT CUT CONTROL JOINTS IN ELEVATED SLABS. PROVIDE #4x4'-0" DOWELS @ 12" O.C. AT GIRDERS. 4. DO NOT PLACE CONDUIT IN ELEVATED SLABS.
- 5. VERIFY AND COORDINATE EQUIPMENT WITH MEP DRAWINGS FOR EXACT SIZE AND LOCATION. CONTACT ARCHITECT AND E.O.R. IF DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND MEP DRAWINGS AND INFORMATION SHOWN ON STRUCTURAL PLANS. 6. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF DECK
- PENETRATIONS.

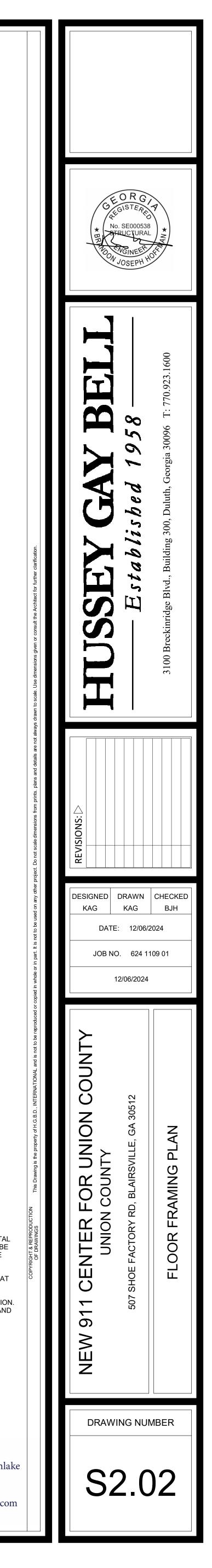
FLOOR FRAMING PLAN LEGEND:

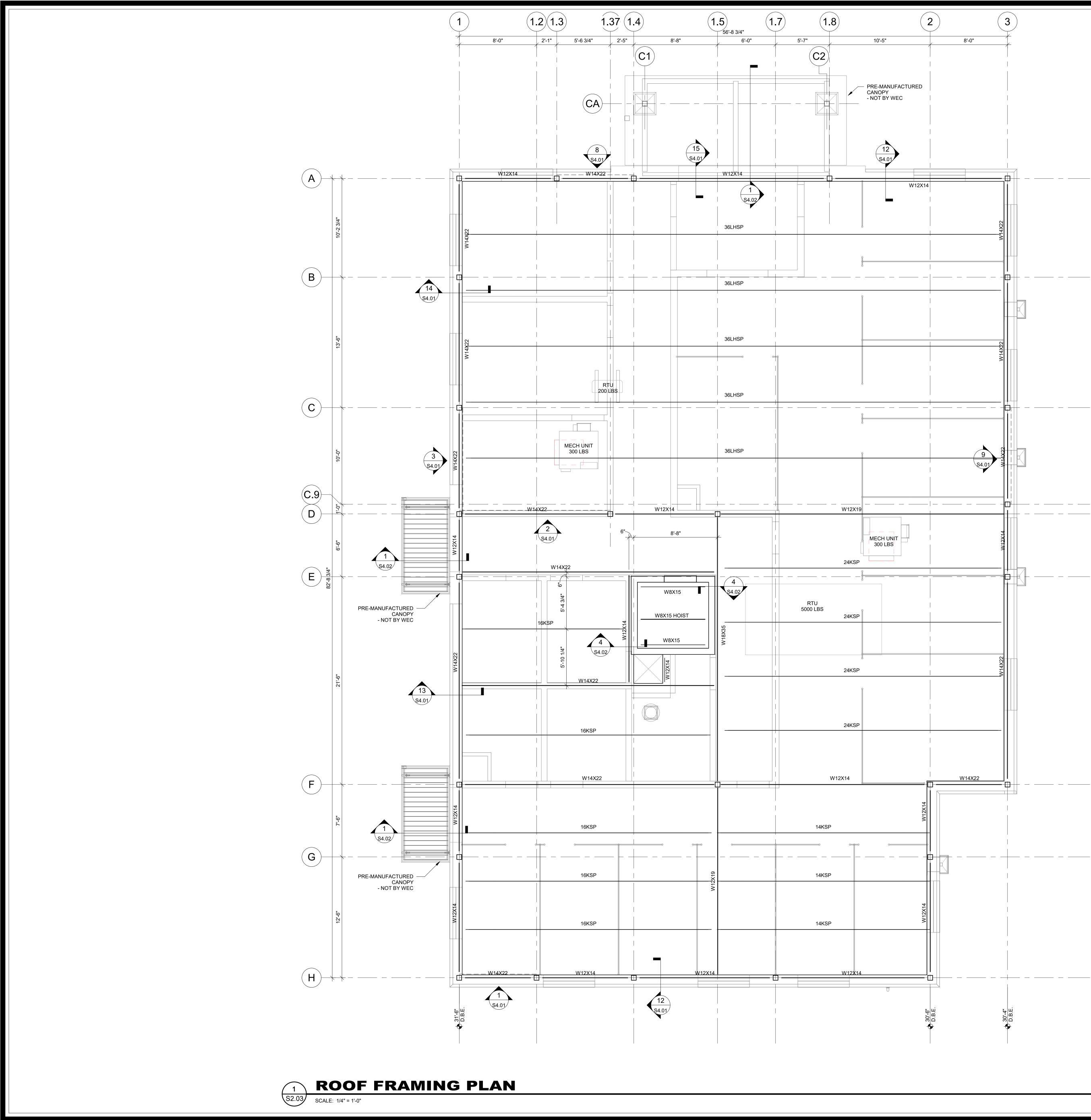
INDICATES BEAM SPLICE (SEE BEAM SPLICE DETAIL)

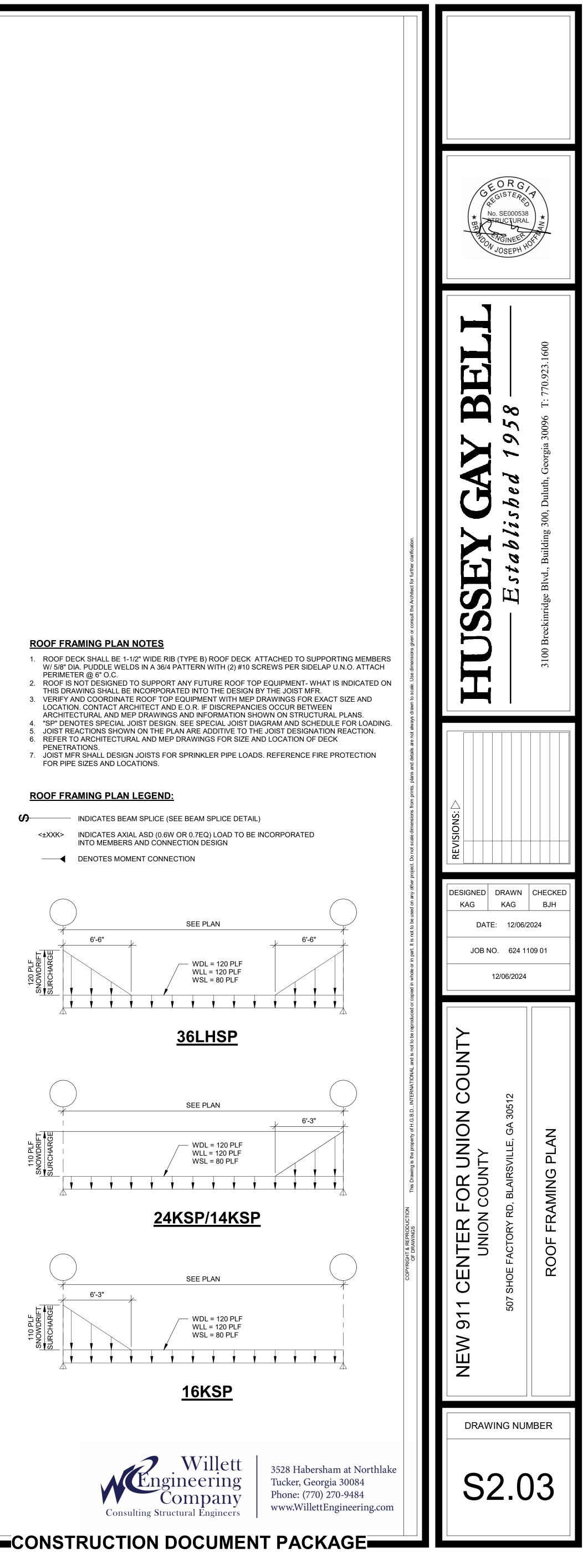
<±XXK> INDICATES AXIAL ASD (0.6W OR 0.7EQ) LOAD TO BE INCORPORATED INTO MEMBERS AND CONNECTION DESIGN DENOTES MOMENT CONNECTION

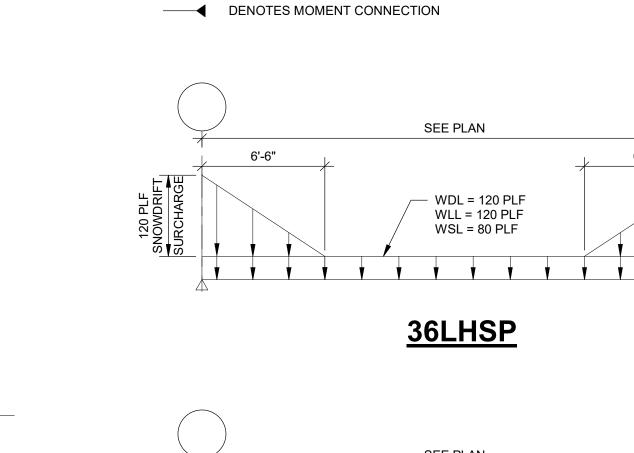


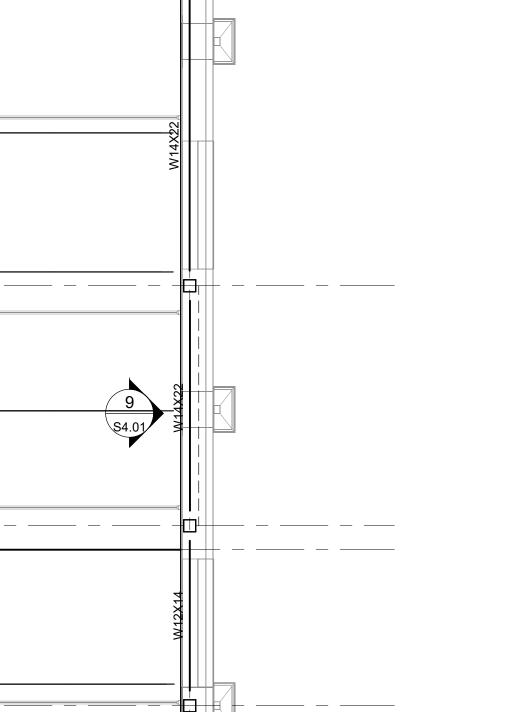
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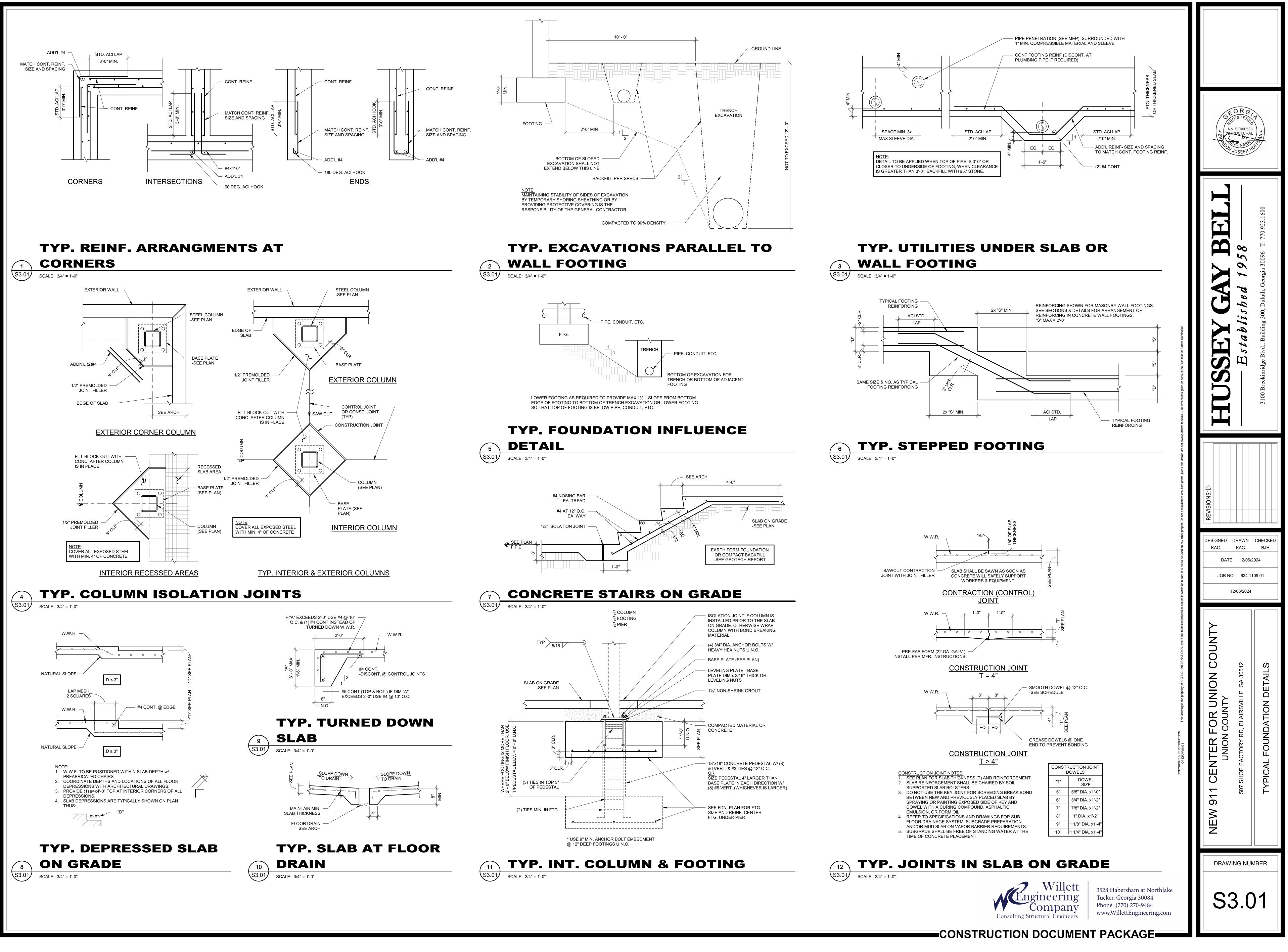


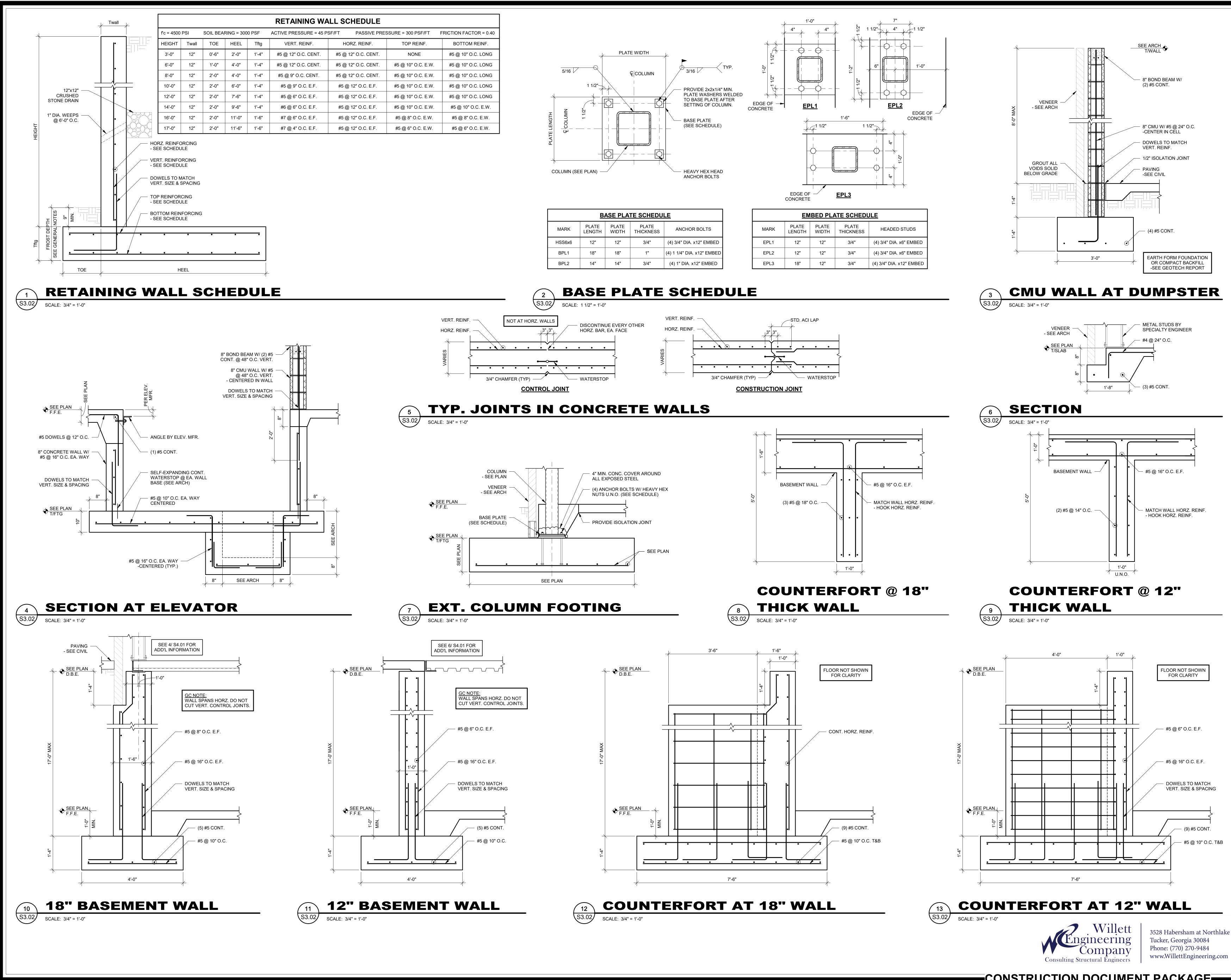










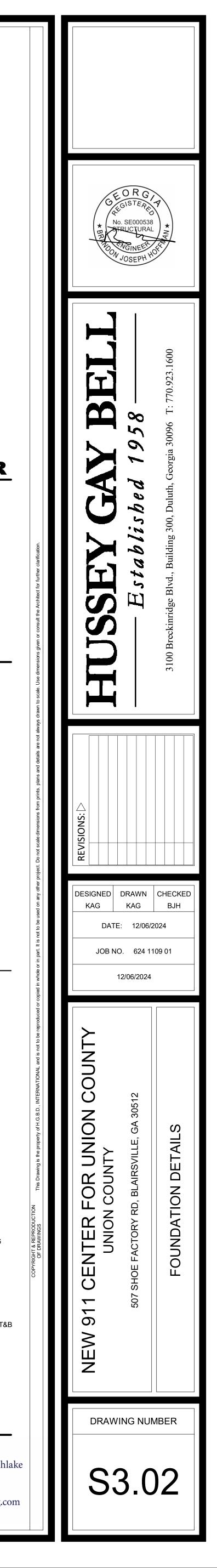


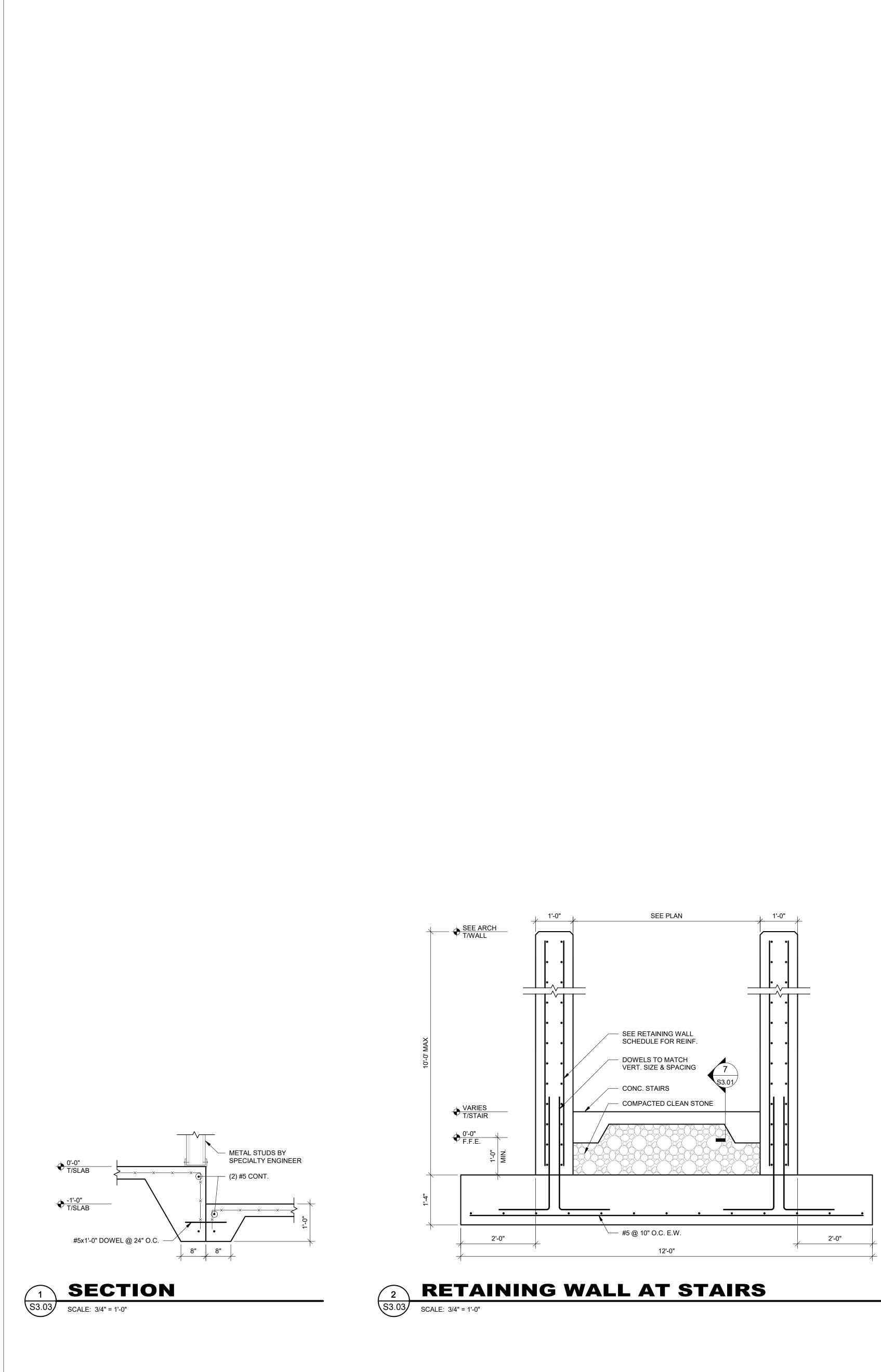




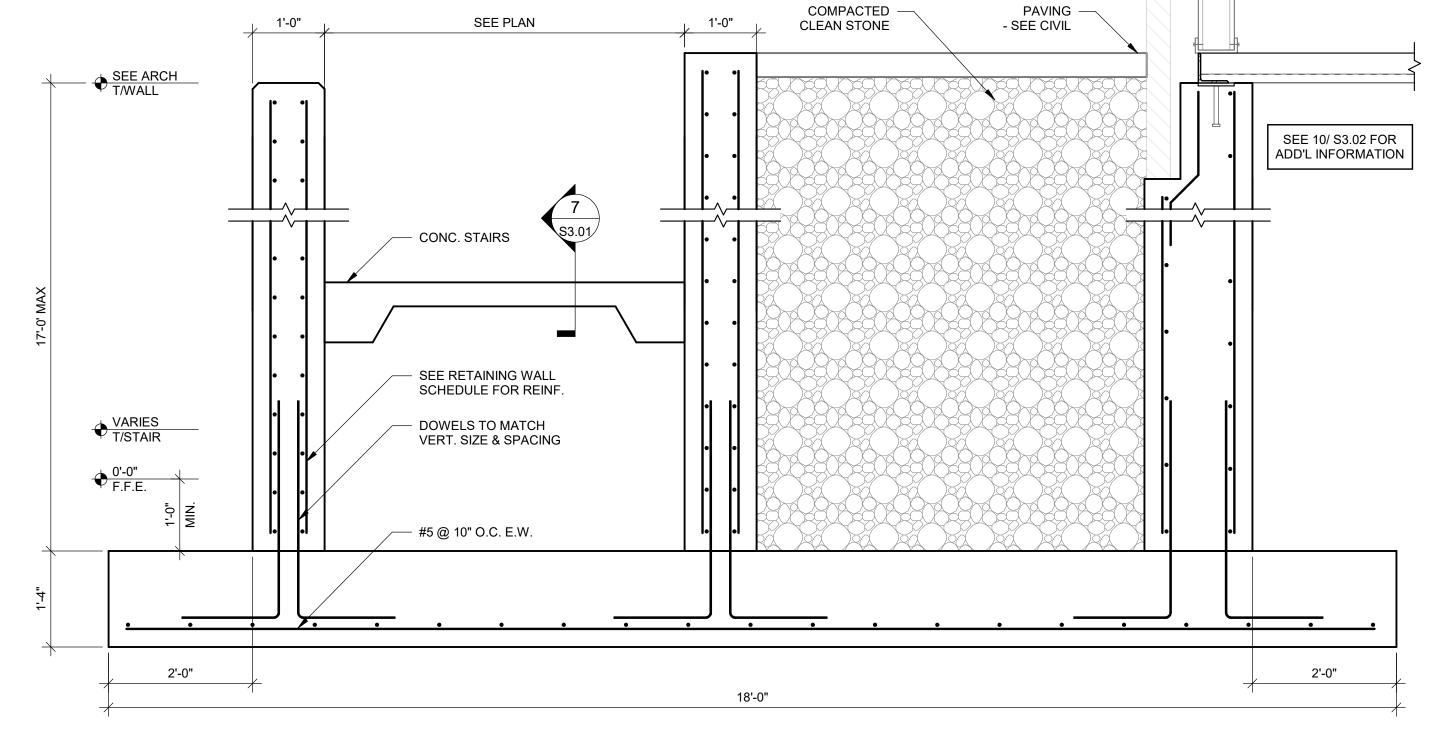
| DGE OF | | <u>EPL3</u> | ' |
|----------------|----------------|--------------------|-------------------------|
| <u>EN</u> | IBED PLA | ATE SCHEDU | JLE |
| PLATE ENGTH | PLATE WIDTH | PLATE THICKNESS | HEADED STUDS |
| 12" | 12" | 3/4" | (4) 3/4" DIA. x6" EMBED |
| 12" | 12" | 3/4" | (4) 3/4" DIA. x6" EMBED |
| | | | |

| EMBED PLATE SCHEDULE | | | | | | | |
|----------------------|----------------|--------------------|--------------------------|--|--|--|--|
| PLATE ENGTH | PLATE WIDTH | PLATE THICKNESS | HEADED STUDS | | | | |
| 12" | 12" | 3/4" | (4) 3/4" DIA. x6" EMBED | | | | |
| 12" | 12" | 3/4" | (4) 3/4" DIA. x6" EMBED | | | | |
| 18" | 12" | 3/4" | (4) 3/4" DIA. x12" EMBED | | | | |







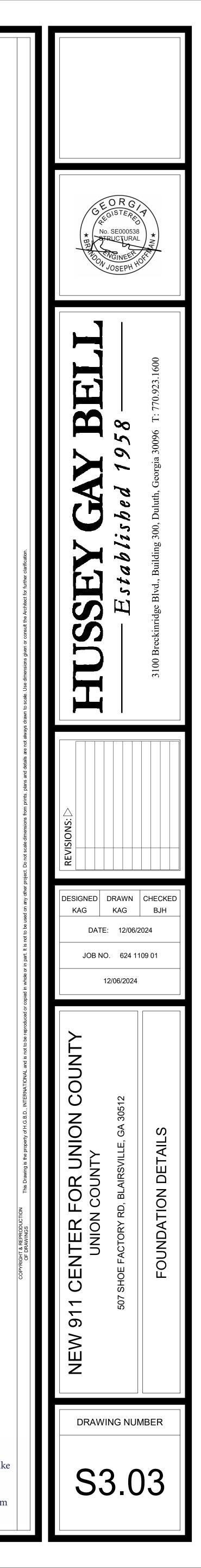


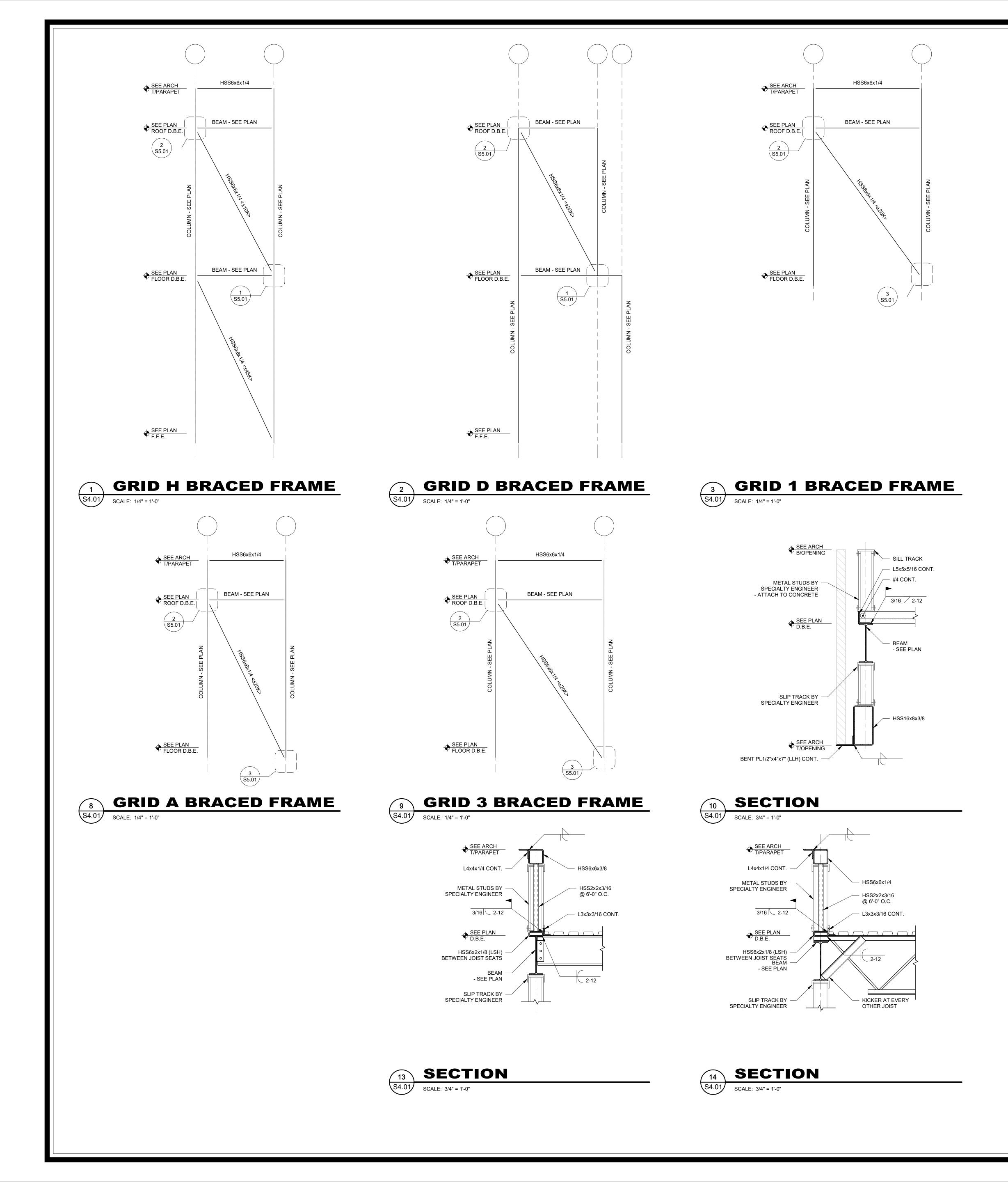


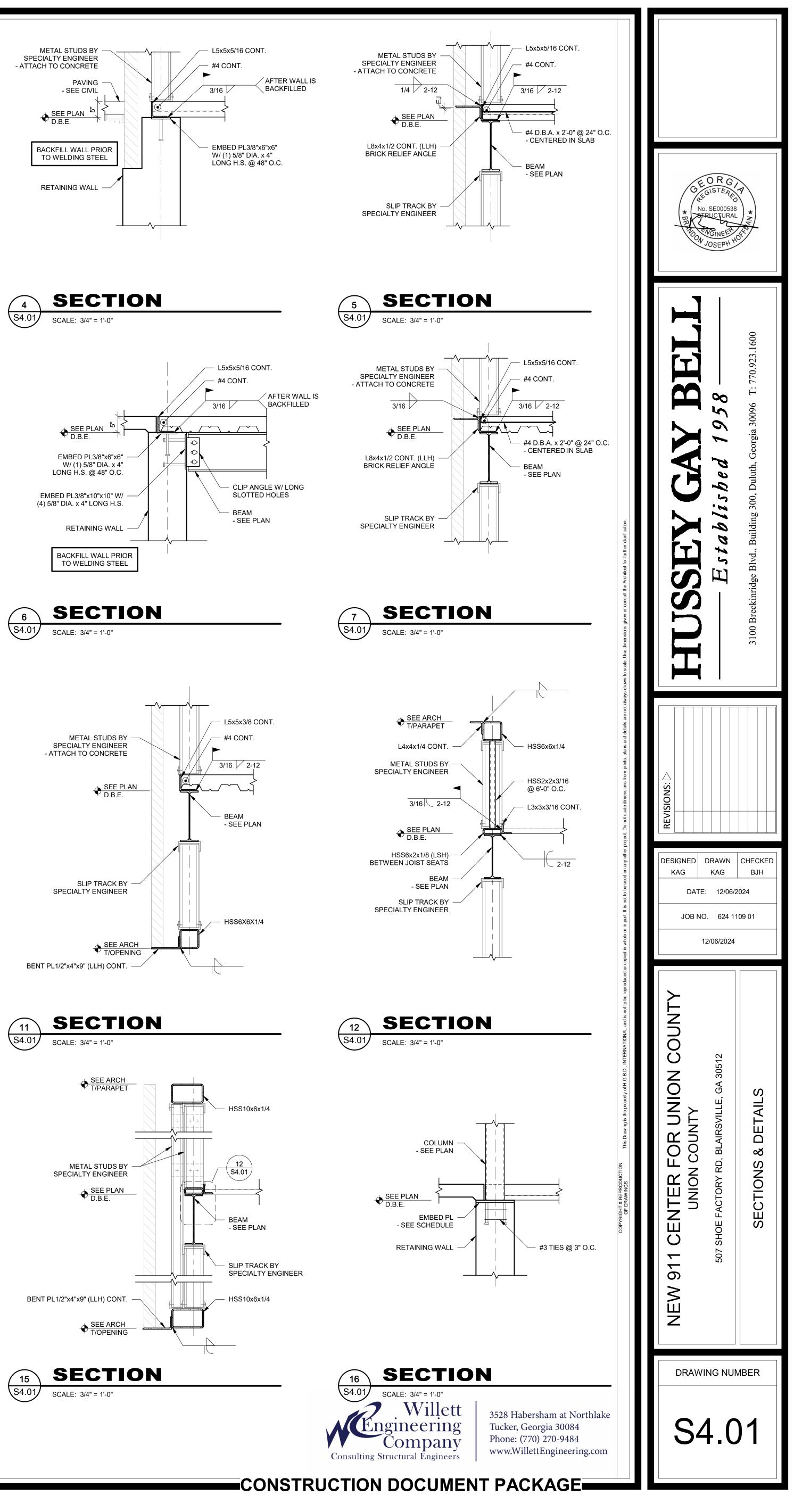
CONSTRUCTION DOCUMENT PACKAGE

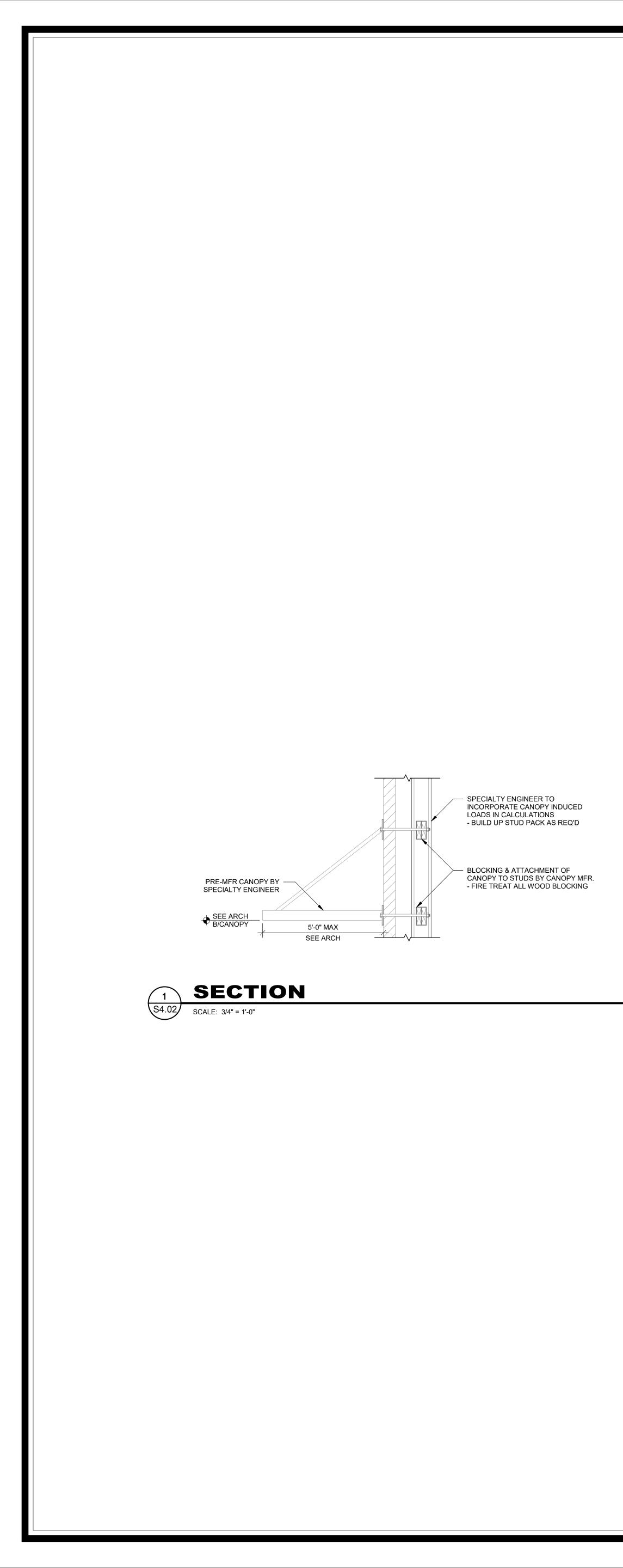
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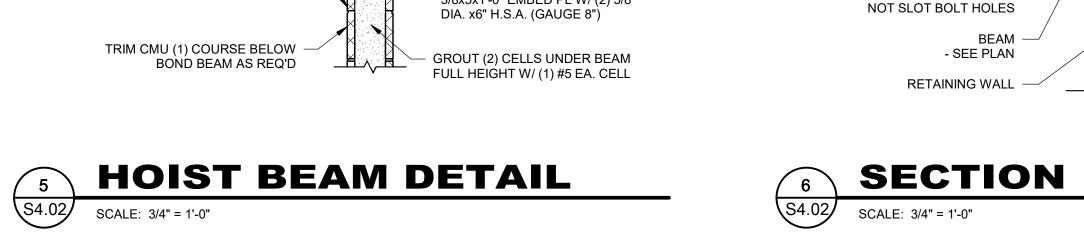
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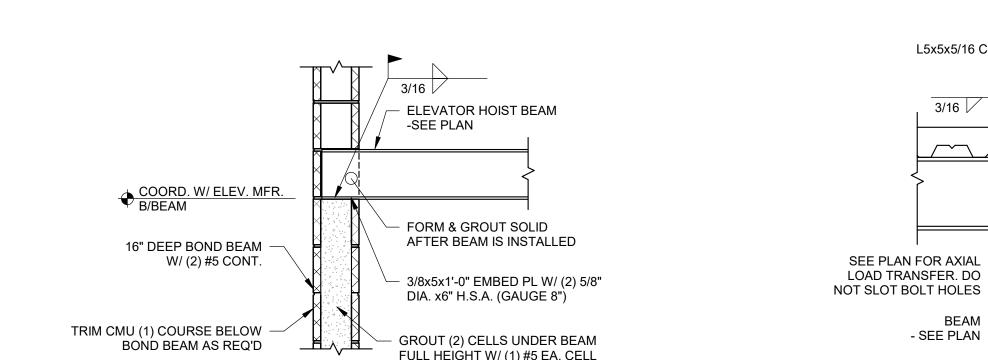


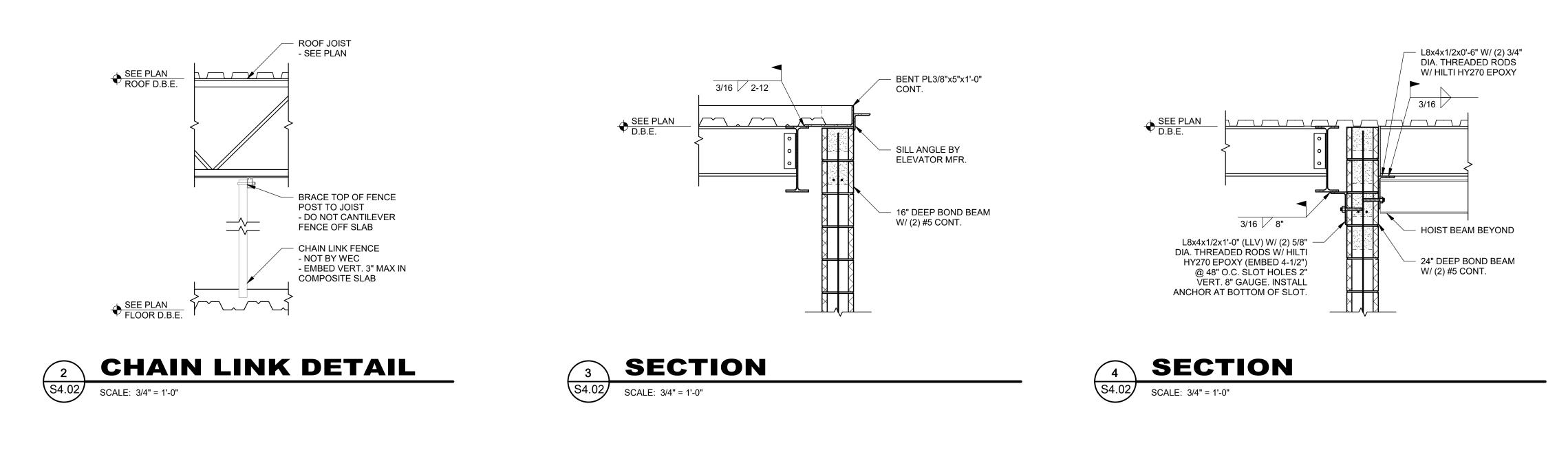












L5x5x5/16 CONT.

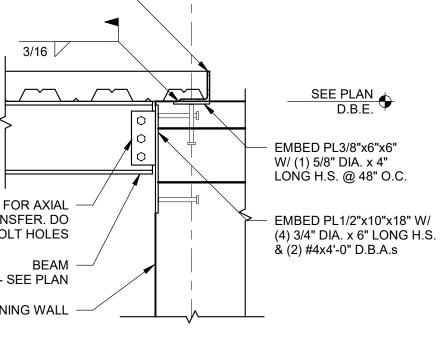


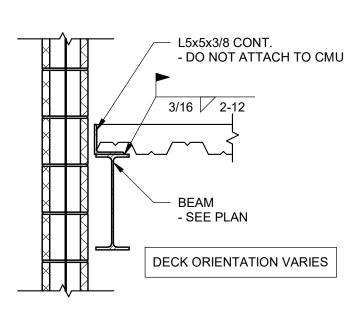
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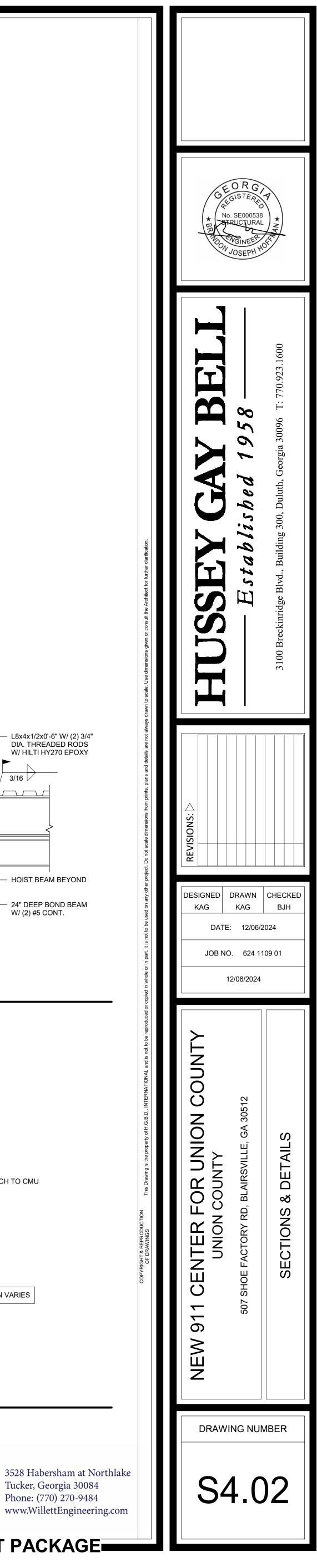
SECTION

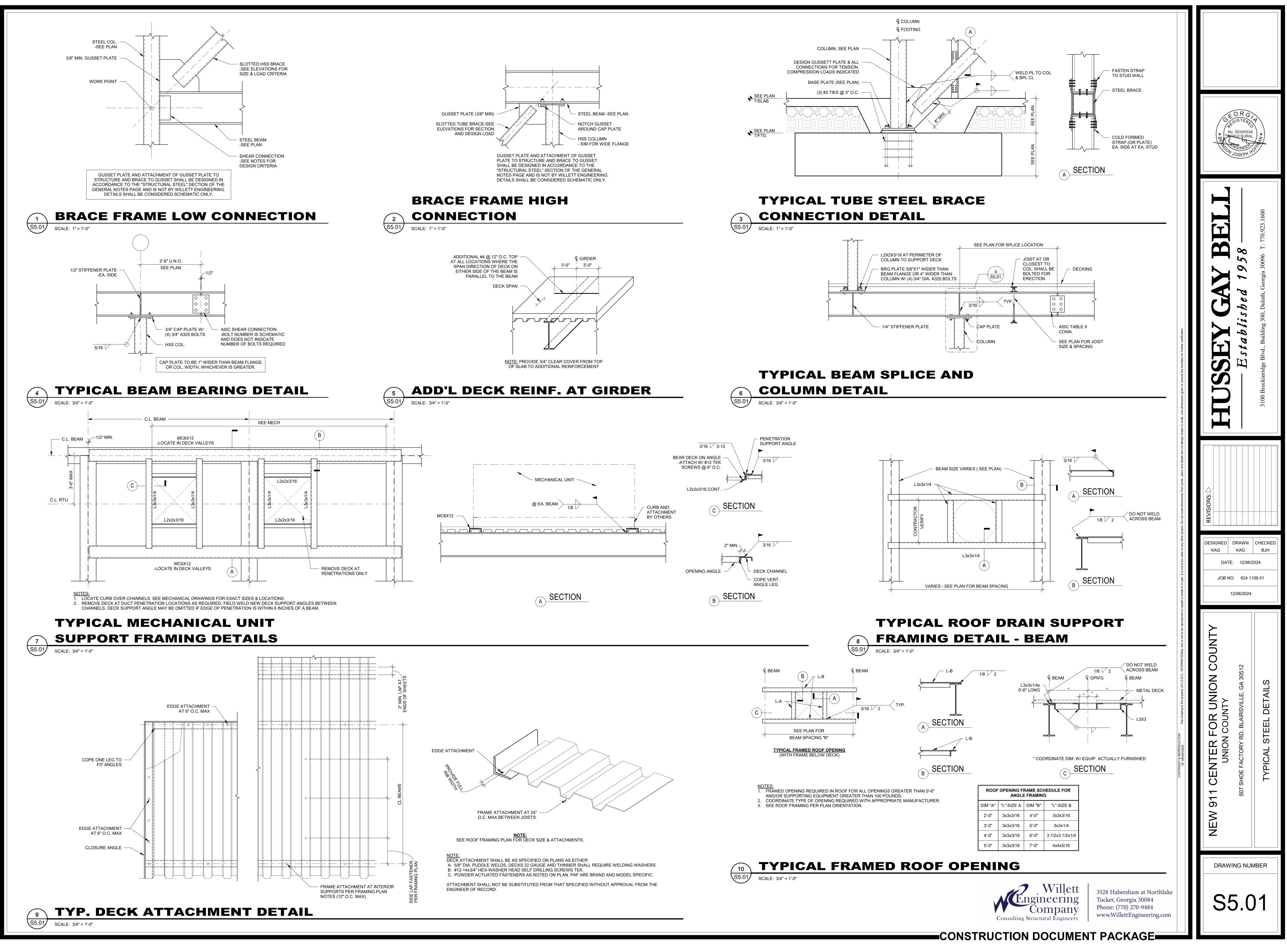
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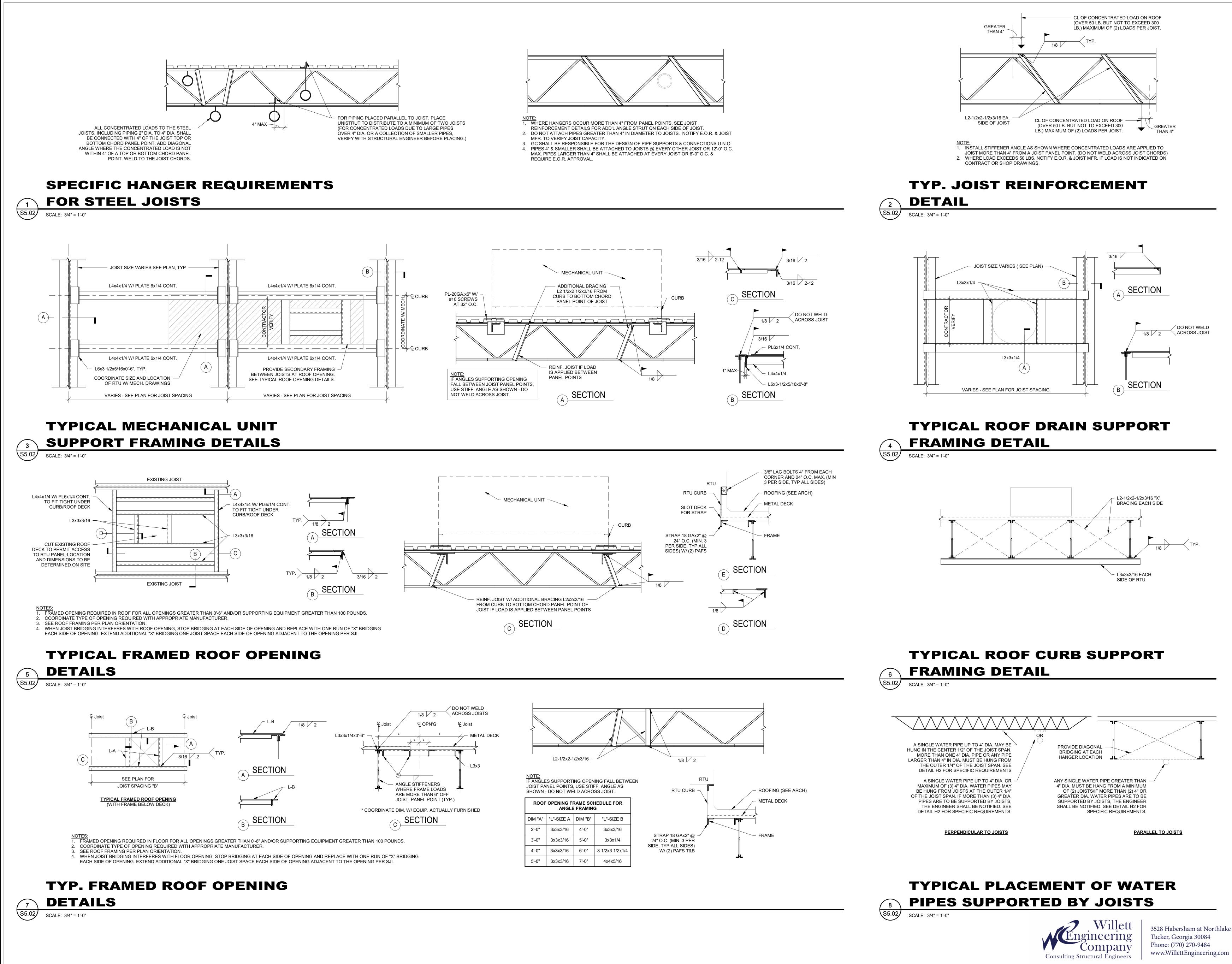
S4.02 SCALE: 3/4" = 1'-0"

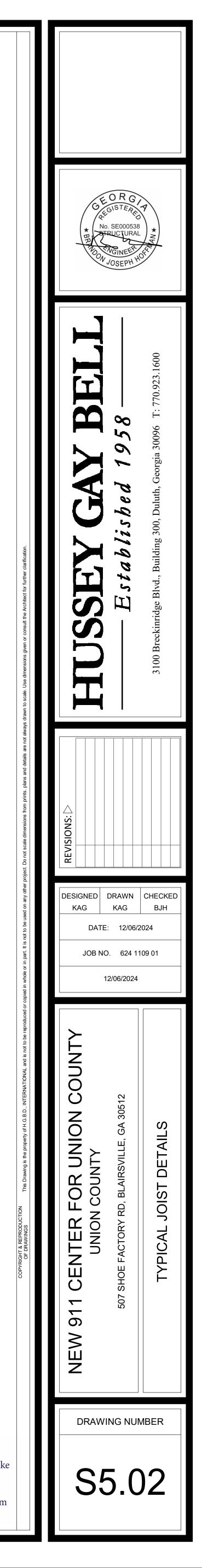


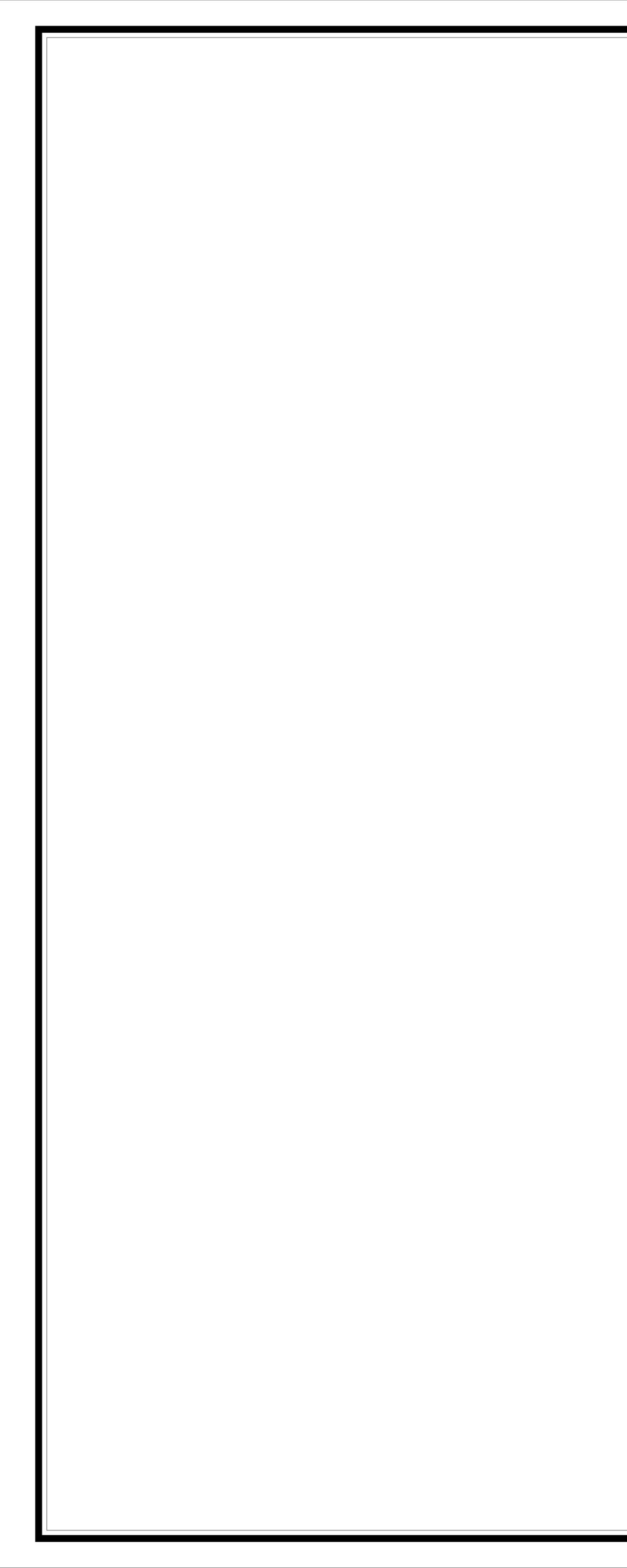


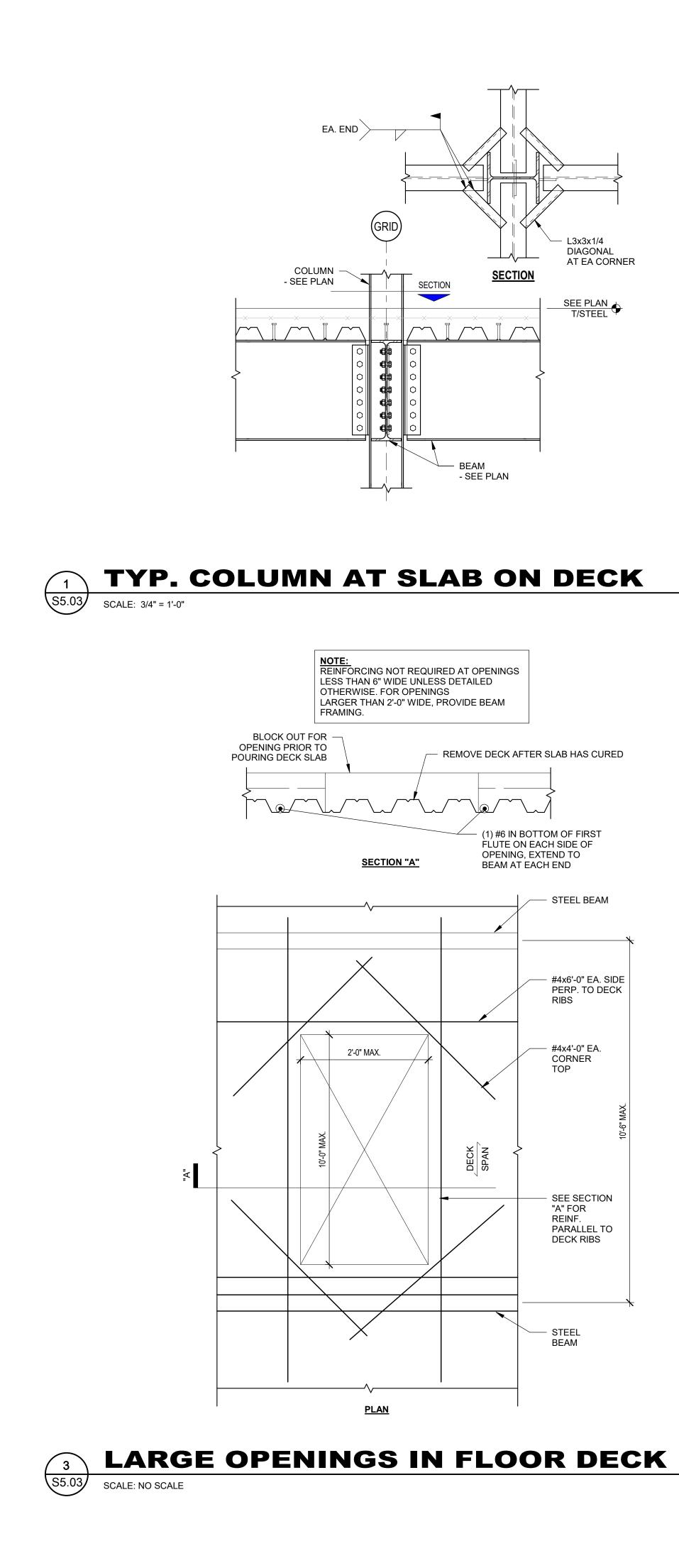


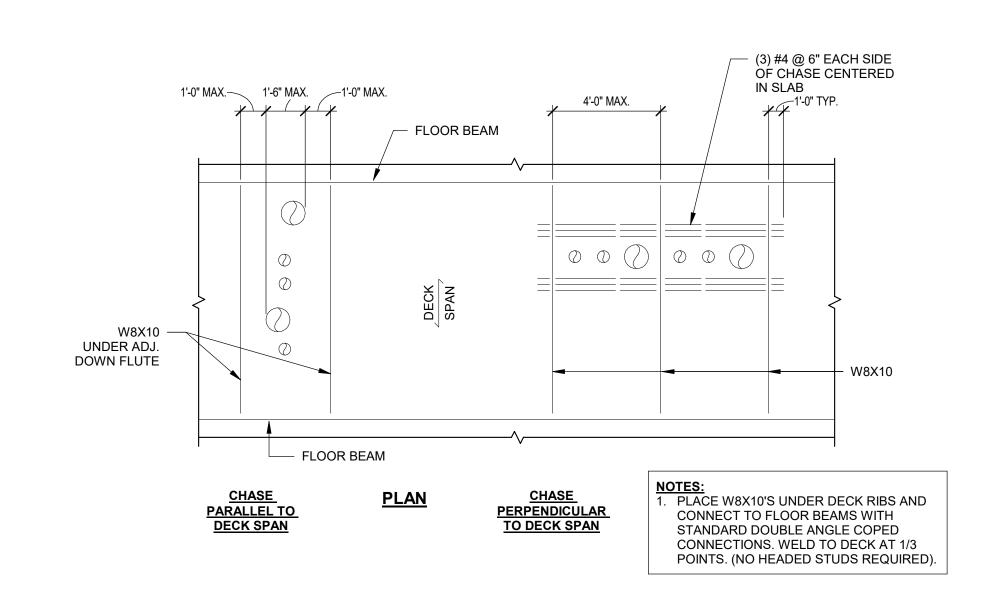




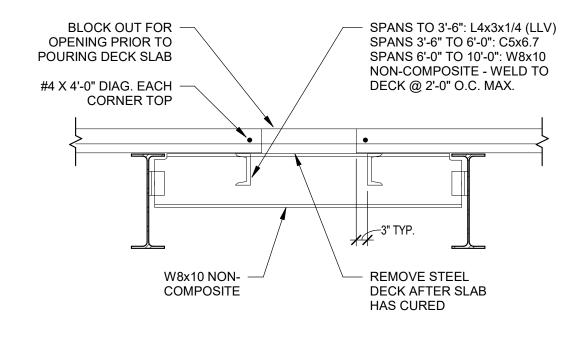






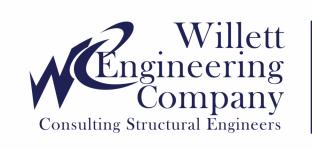




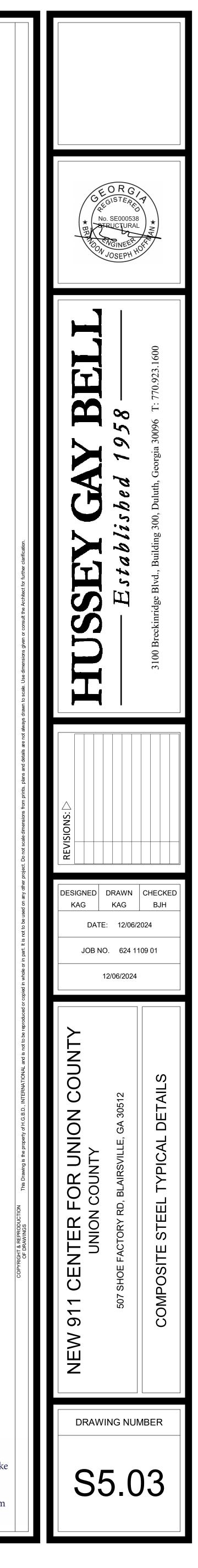


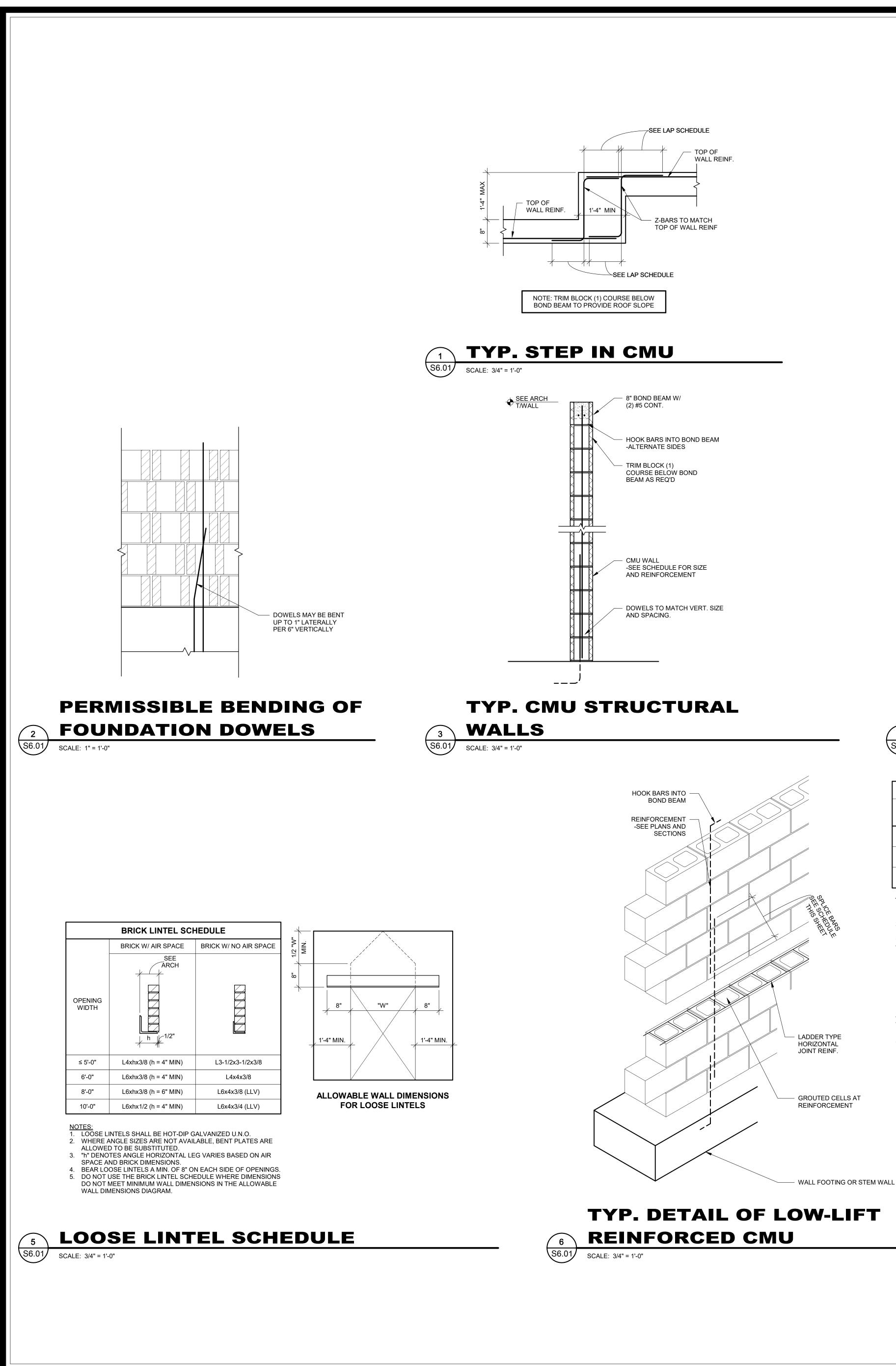


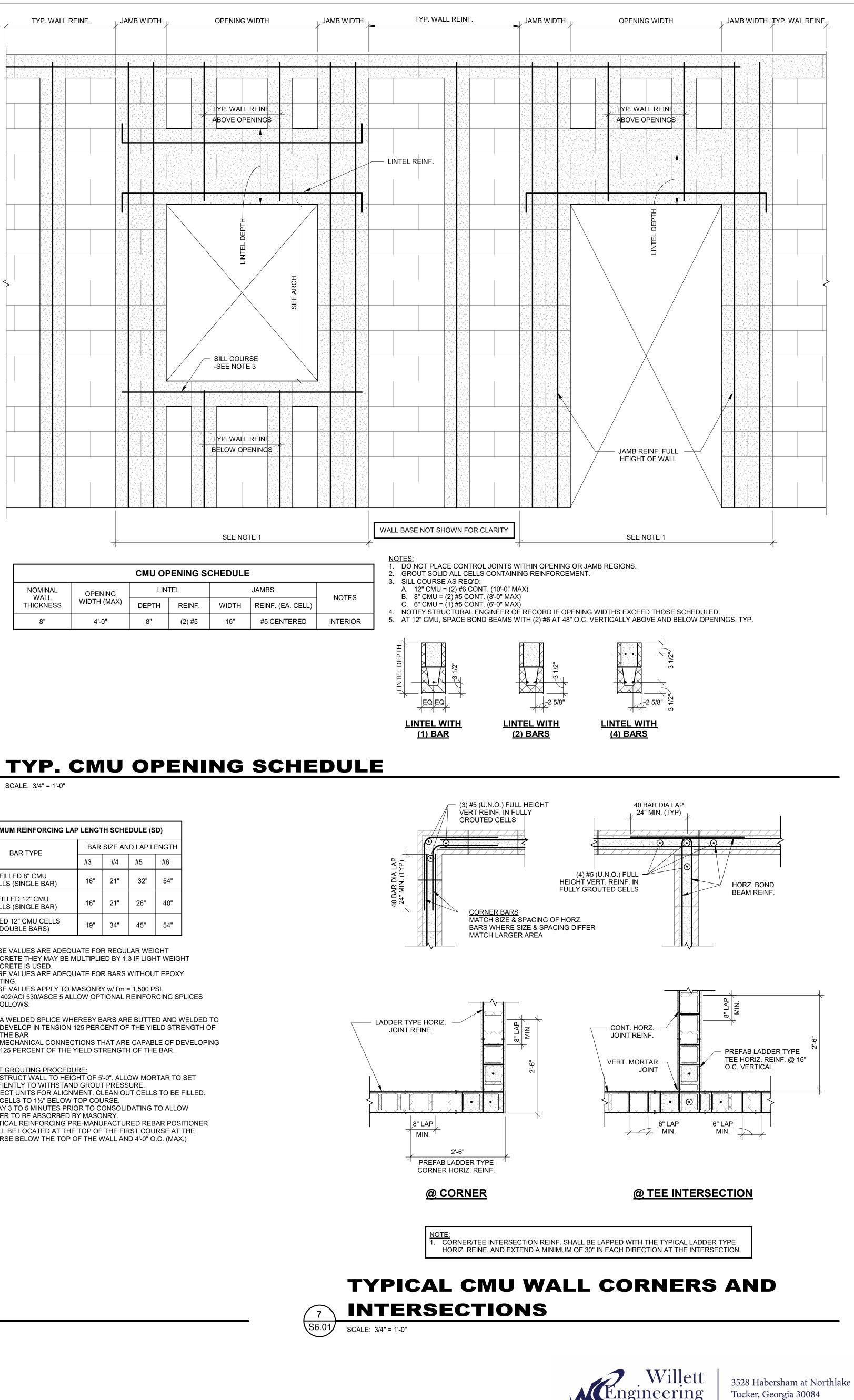
OPENINGS IN FLOOR DECK



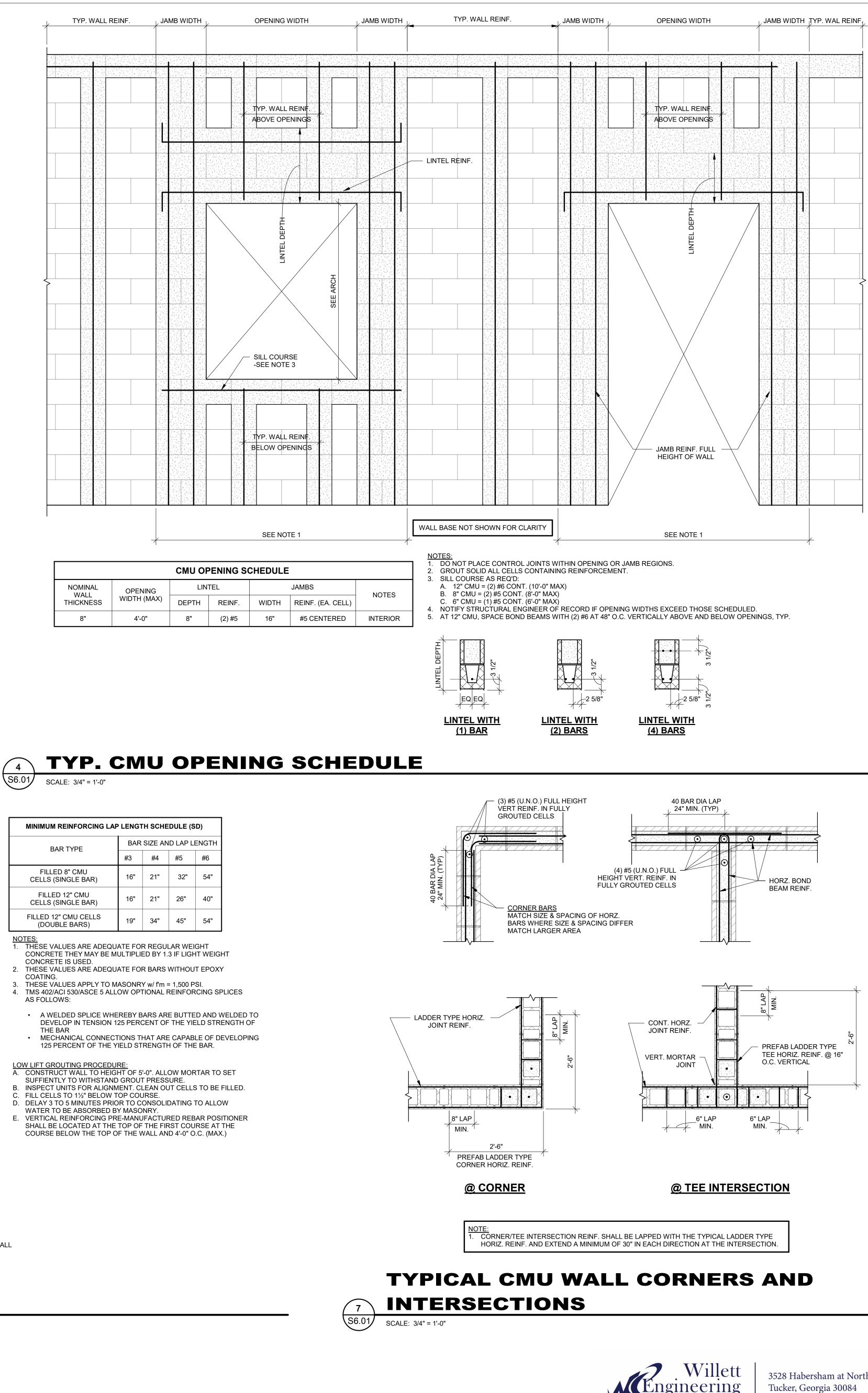
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| | | CMU OF | PENING |
|-----------------|-------------|--------|--------|
| NOMINAL WALL | OPENING | LIN | TEL |
| THICKNESS | WIDTH (MAX) | DEPTH | REINF |
| 8" | 4'-0" | 8" | (2) #5 |
| | | | |

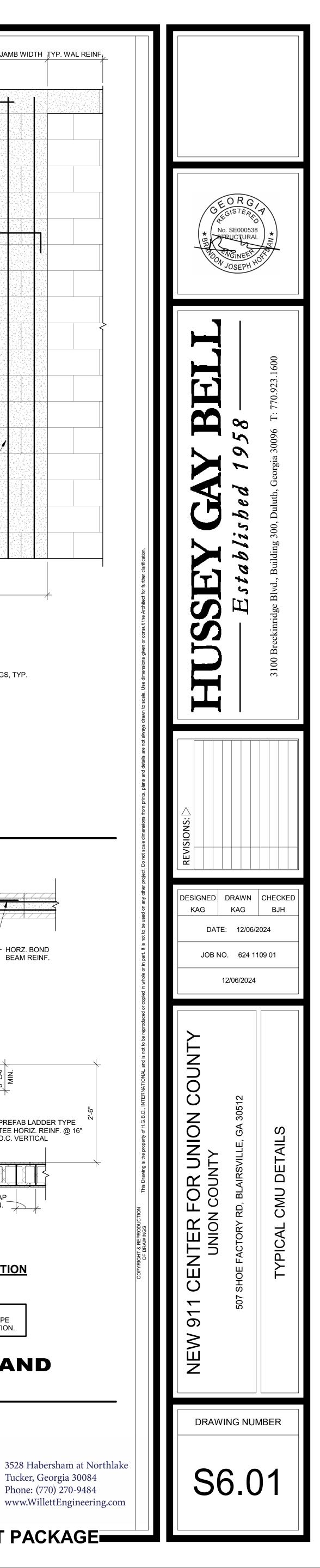


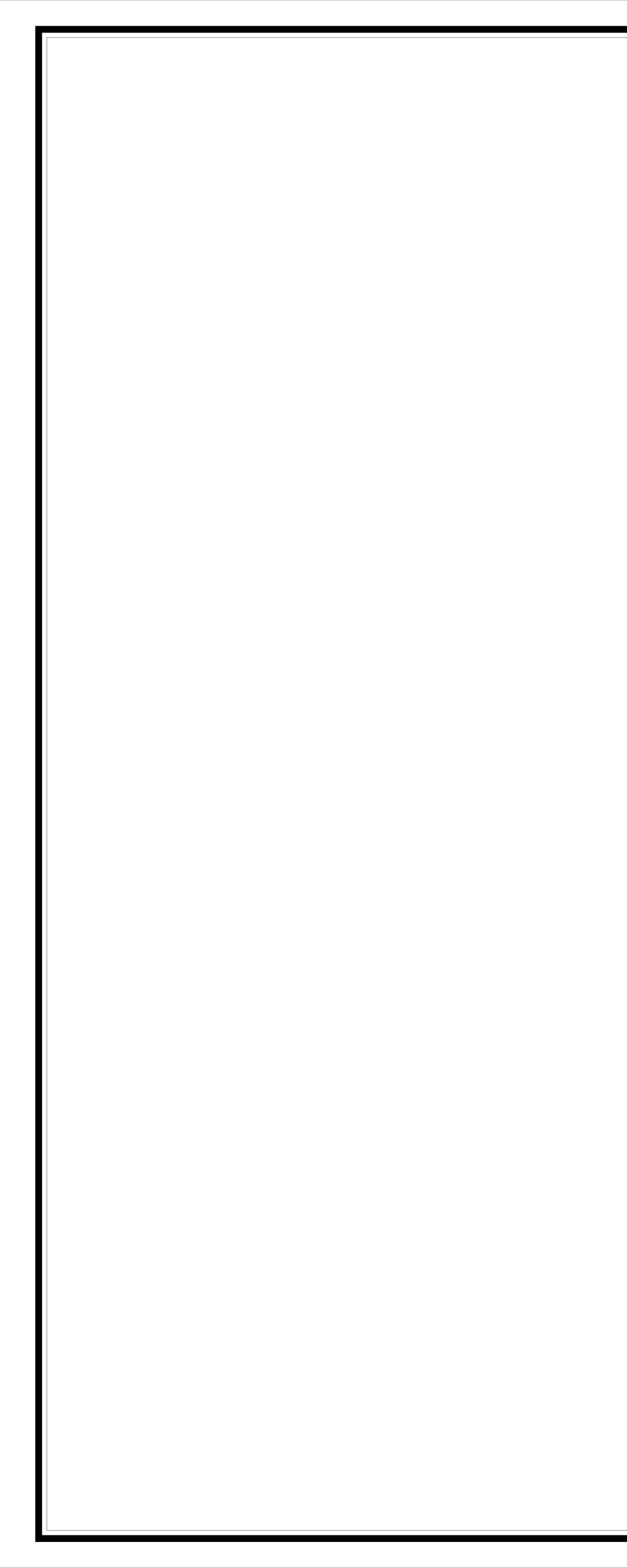
| MINIMUM REINFORCING LAP LENGTH SCHEDULE (SD) | | | | | | |
|----------------------------------------------|-----|---------|-----------|-------|--|--|
| BAR TYPE | BAR | SIZE AN | ID LAP LI | ENGTH | | |
| | #3 | #4 | #5 | #6 | | |
| FILLED 8" CMU CELLS (SINGLE BAR) | 16" | 21" | 32" | 54" | | |
| FILLED 12" CMU CELLS (SINGLE BAR) | 16" | 21" | 26" | 40" | | |
| FILLED 12" CMU CELLS (DOUBLE BARS) | 19" | 34" | 45" | 54" | | |

Consulting Structural Engineers

Company

Phone: (770) 270-9484





| | ROOF AIR CONDITIONER SCHEDULE | | | | | | | | | | | |
|-------|-------------------------------|------|--------|-------|-------------------------------------------|-------|--------|---------------------|-------|--------|--------------|-------------------------------------------|
| | AIRF | LOW | EXT. | | COOLING CAPACITY @ 95°F O.A. SUPPLY FILTE | | | | | FILTER | | |
| ITEM | CF | M | STATIC | TOTAL | DTAL SENS. ENTERING AIR LEAVING AIR F. | | FAN HP | THICKNESS / REMARKS | | | | |
| | TOTAL | O.A. | IN. WG | MBH | MBH | DB °F | WB °F | DB °F | WB °F | MAX. | EFFICIENCY | |
| RAC-1 | 6000 | 800 | 2 | 231 | 149 | 80 | 67 | 55 | 54 | 5 | 2" / MERV 13 | CARRIER 50K VAV / EER 10.0 / IEER 13.2 |

1. REFER TO ELECTRICAL PLANS FOR POWER CONNECTIONS. REFER TO SPEC SECTION 235110 FOR FURTHER INFORMATION. 2. INSTALL AN AIR TREATMENT DEVICE(S) IN ALL RAC UNITS. 3. BALANCE SYSTEM TO 5260 CFM. RAC UNIT IS SIZED FOR FUTURE SECOND FLOOR CONVERSION.

| | | | | | TERMI | NAL UNI | r schedi | JLE | | |
|------|----------------------|---------------------------------|----------------|------------|--------------------------|----------------|-------------------------------|-------------------------------|-------------------|--------------------------------------------------|
| ITEM | INLET SIZE IN. | PRIMARY AIR CFM MAX./MIN. | HEATING CFM | FAN CFM | EXT. STATIC IN. WG | CAPACITY KW | HEATING ENTERING AIR °F | CAPACITY LEAVING AIR °F | HEATING STAGES | REMARKS |
| TU-1 | 12 | 950 / 285 | 950 | 950 | 0.5 | 8.0 208/3 | 62 | 88 | SCR | TITUS DTQS SERIES FAN POWERED VAV - MAX. NC-3 |
| TU-2 | 08 | 660 / 305 | 305 | | 0.25 | 3.5 208/3 | 55 | 91 | SCR | TITUS DESV SINGLE DUCT VAV - MAX. NC-30 |
| TU-3 | 09 | 1000 / 300 | 300 | | 0.25 | 3.5 208/3 | 55 | 92 | SCR | TITUS DESV SINGLE DUCT VAV - MAX. NC-30 |
| TU-4 | 12 | 1050 / 315 | 1050 | 1050 | 0.5 | 9.0 208/3 | 64 | 91 | SCR | TITUS DTQS SERIES FAN POWERED VAV - MAX. NC-3 |
| TU-5 | 14 | 1600 / 480 | 1600 | 1600 | 0.5 | 10.0 208/3 | 64 | 85 | SCR | TITUS DTQS SERIES FAN POWERED VAV - MAX. NC-3 |

1. REFER TO ELECTRICAL PLANS FOR POWER CONNECTIONS. REFER TO SPEC SECTION 232420 FOR FURTHER INFORMATION. 2. MAXIMUM STATIC PRESSURE DROP SHALL BE RATED AT MAXIMUM CFM FOR THE AIR VALVE AND COIL. 3. MAXIMUM NC SHALL BE FOR ALL OPERATING CONDITIONS (DISCHARGED AND RADIATED).

| | | | FAN S | SCHEDUL | _E | | |
|------|----------------|-------------------------|----------------------------------|------------------------|--------------------|---------------------|-------------------------------------|
| ITEN | AIRFLOW CFM | EXT. STATIC IN.WG | TYPE | MAX. SONE RATING | MAX. FAN RPM | MAX. MOTOR HP | REMARKS |
| EF-1 | 635 | 0.50 | ROOF CENTRIFUGAL DIRECT DRIVE | 9.3 | 1562 | 1/6 | GREENHECK G CONTINUOUS OPERATION |

1. REFER TO ELECTRICAL PLANS FOR POWER CONNECTIONS. REFER TO SPEC SECTION 232310 FOR FURTHER INFORMATION.

| | DUCTLESS HEAT PUMP SCHEDULE | | | | | | | | |
|----------------|-----------------------------|------|--------|--------|----------|-----------|----------|---------------------------------------|--|
| | AIRF | LOW | EXT. | COOLII | NG CAPAC | CITY @ 95 | ΰ°F Ο.Α. | | |
| ITEM | CF | M | STATIC | TOTAL | SENS. | ENTER | ING AIR | REMARKS | |
| | TOTAL | O.A. | IN. WG | MBH | MBH | DB °F | WB °F | | |
| DHP-1 DAH-1 | 780 | | | 36 | 25 | 80 | 67 | CARRIER 37MARAQ / 45MAHAQ 19 SEER2 | |

2. INSTALL AN AIR TREATMENT DEVICE(S) IN ALL DAH UNITS.

| ELECTRIC HEATER SCHEDULE | | | | | | | |
|--------------------------|---------------------------|----------------|----------------|----------------------|----------------------------|--|--|
| ITEM | TYPE | CAPACITY KW | AIRFLOW CFM | CONTROL | REMARKS | | |
| EH-1 | HEAVY DUTY WALL HEATER | 4.8 208/3 | 100 | INTEGRAL TSTAT | QMARK AWH SURFACE MOUNT | | |
| 1. REFER TO I | ELECTRICAL PLANS FOR PC | WER CONNECT | IONS. REFER T | O SPEC SECTION 23311 | 0 FOR FURTHER INFORMATION. | | |

1 REFER TO ELECTRICAL PLANS FOR POWER CONNECTIONS. REFER TO SPEC SECTION 236110 FOR FURTHER INFORMATION.

AIR DISTRIBUTION SCHEDULE

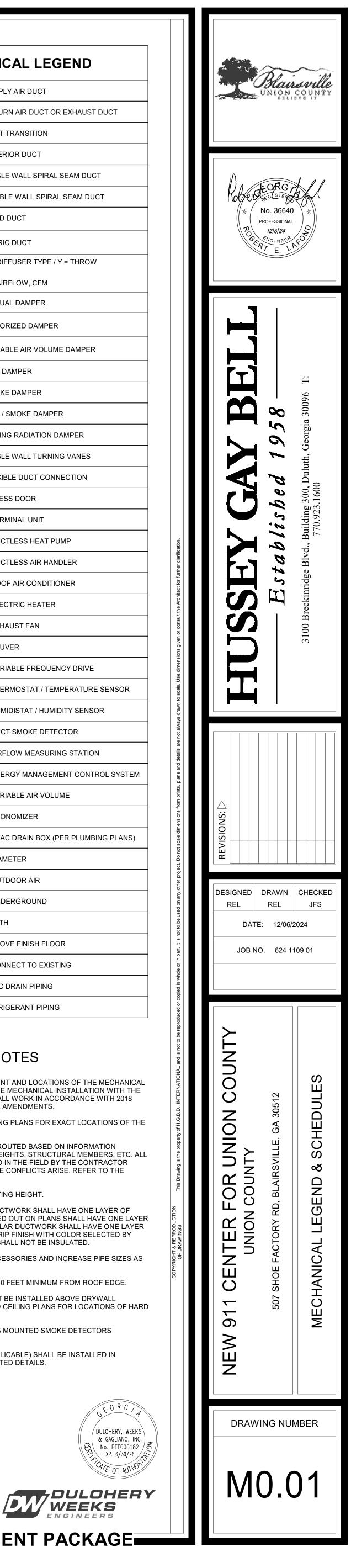
| DESIGNATION | DESCRIPTION |
|-------------|-----------------------------------------------------------------|
| A | 6" NECK SQUARE PLAQUE FACE CEILING DIFFUSER, LAY-IN |
| В | 8" NECK SQUARE PLAQUE FACE CEILING DIFFUSER, LAY-IN |
| С | 10" NECK SQUARE PLAQUE FACE CEILING DIFFUSER, LAY-IN |
| D | 12" NECK SQUARE PLAQUE FACE CEILING DIFFUSER, LAY-IN |
| E | 6" NECK SQUARE PLAQUE FACE CEILING DIFFUSER, SURFACE MOUNTED |
| F | 1'x2' EGGCRATE CEILING RETURN / EXHAUST GRILLE, LAY-IN |
| G | 2'x2' EGGCRATE CEILING RETURN / EXHAUST GRILLE, LAY-IN |
| Н | 1'x1' EGGCRATE CEILING RETURN / EXHAUST GRILLE, SURFACE MOUNTED |

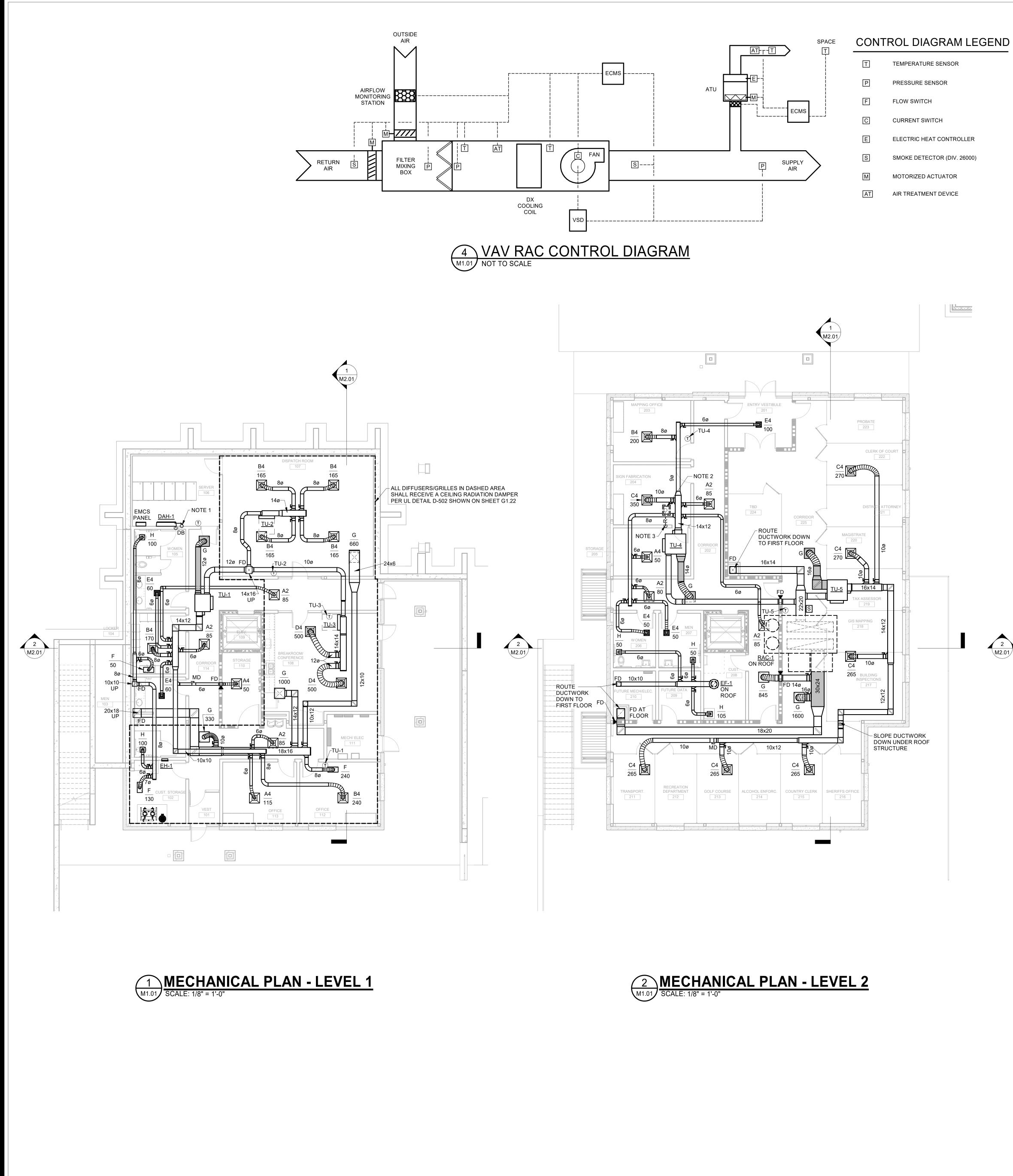
1. REFER TO SPEC SECTION 232210 FOR FURTHER INFORMATION.

| MECHANICAL LEGEND | |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|
| | SUPPLY AIR DUCT |
| | RETURN AIR DUCT OR EXHAUST DUCT |
| | DUCT TRANSITION |
| | EXTERIOR DUCT |
| | SINGLE WALL SPIRAL SEAM DUCT |
| | DOUBLE WALL SPIRAL SEAM DUCT |
| | LINED DUCT |
| | FABRIC DUCT |
| XY | — X = DIFFUSER TYPE / Y = THROW |
| Z | – Z = AIRFLOW, CFM |
| | MANUAL DAMPER |
| | MOTORIZED DAMPER |
| | VARIABLE AIR VOLUME DAMPER |
| | FIRE DAMPER |
| SD | SMOKE DAMPER |
| FSD | FIRE / SMOKE DAMPER |
| CRD | CEILING RADIATION DAMPER |
| The second se | SINGLE WALL TURNING VANES |
| | FLEXIBLE DUCT CONNECTION |
| AD | ACCESS DOOR |
| TU | TERMINAL UNIT |
| DHP | DUCTLESS HEAT PUMP |
| DAH | DUCTLESS AIR HANDLER |
| RAC | ROOF AIR CONDITIONER |
| EH | ELECTRIC HEATER |
| EF | EXHAUST FAN |
| L | LOUVER |
| VFD | VARIABLE FREQUENCY DRIVE |
| Ū | THERMOSTAT / TEMPERATURE SENSOR |
| B | HUMIDISTAT / HUMIDITY SENSOR |
| S | DUCT SMOKE DETECTOR |
| AMS | AIRFLOW MEASURING STATION |
| EMCS | ENERGY MANAGEMENT CONTROL SYSTEM |
| VAV | VARIABLE AIR VOLUME |
| ECON | ECONOMIZER |
| DB | HVAC DRAIN BOX (PER PLUMBING PLANS) |
| Ø DIA | DIAMETER |
| OA | OUTDOOR AIR |
| UG | UNDERGROUND |
| W/ | WITH |
| AFF | ABOVE FINISH FLOOR |
| | |
| D | |
| | REFRIGERANT PIPING |

GENERAL NOTES

- 1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF THE MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH 2018 INTERNATIONAL MECHANICAL CODE (IMC) WITH GA AMENDMENTS.
- 2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF THE CEILING MOUNTED DEVICES.
- 3. DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCTS SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE. REFER TO THE ENGINEER.
- 4. REFER TO SENSOR MOUNTING DETAIL FOR MOUNTING HEIGHT.
- 5. ALL CONCEALED SUPPLY AIR AND RETURN AIR DUCTWORK SHALL HAVE ONE LAYER OF TYPE 'A' DUCT WRAP. ALL LINED DUCTWORK CALLED OUT ON PLANS SHALL HAVE ONE LAYER OF TYPE 'A' DUCT LINER. ALL EXPOSED RECTANGULAR DUCTWORK SHALL HAVE ONE LAYER OF TYPE 'A' DUCT LINER AND SHALL HAVE PAINT GRIP FINISH WITH COLOR SELECTED BY ARCHITECT. GENERAL EXHAUST AIR DUCTWORK SHALL NOT BE INSULATED.
- 6. INCLUDE ALL REQUIRED REFRIGERANT PIPING ACCESSORIES AND INCREASE PIPE SIZES AS NEEDED FOR LONG LINE LENGTH APPLICATIONS.
- 7. ROOF MOUNTED EQUIPMENT SHALL BE LOCATED 10 FEET MINIMUM FROM ROOF EDGE.
- CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF HARD CEILINGS. 8. DEVICES REQUIRED TO BE ACCESSIBLE SHALL NOT BE INSTALLED ABOVE DRYWALL
- 9. SMOKE DAMPERS SHALL BE ACTUATED BY CEILING MOUNTED SMOKE DETECTORS FURNISHED AND INSTALLED BY DIV. 26/27.
- 10. ALL FIRE DAMPERS AND SMOKE DAMPERS (AS APPLICABLE) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S UL LISTED DETAILS.

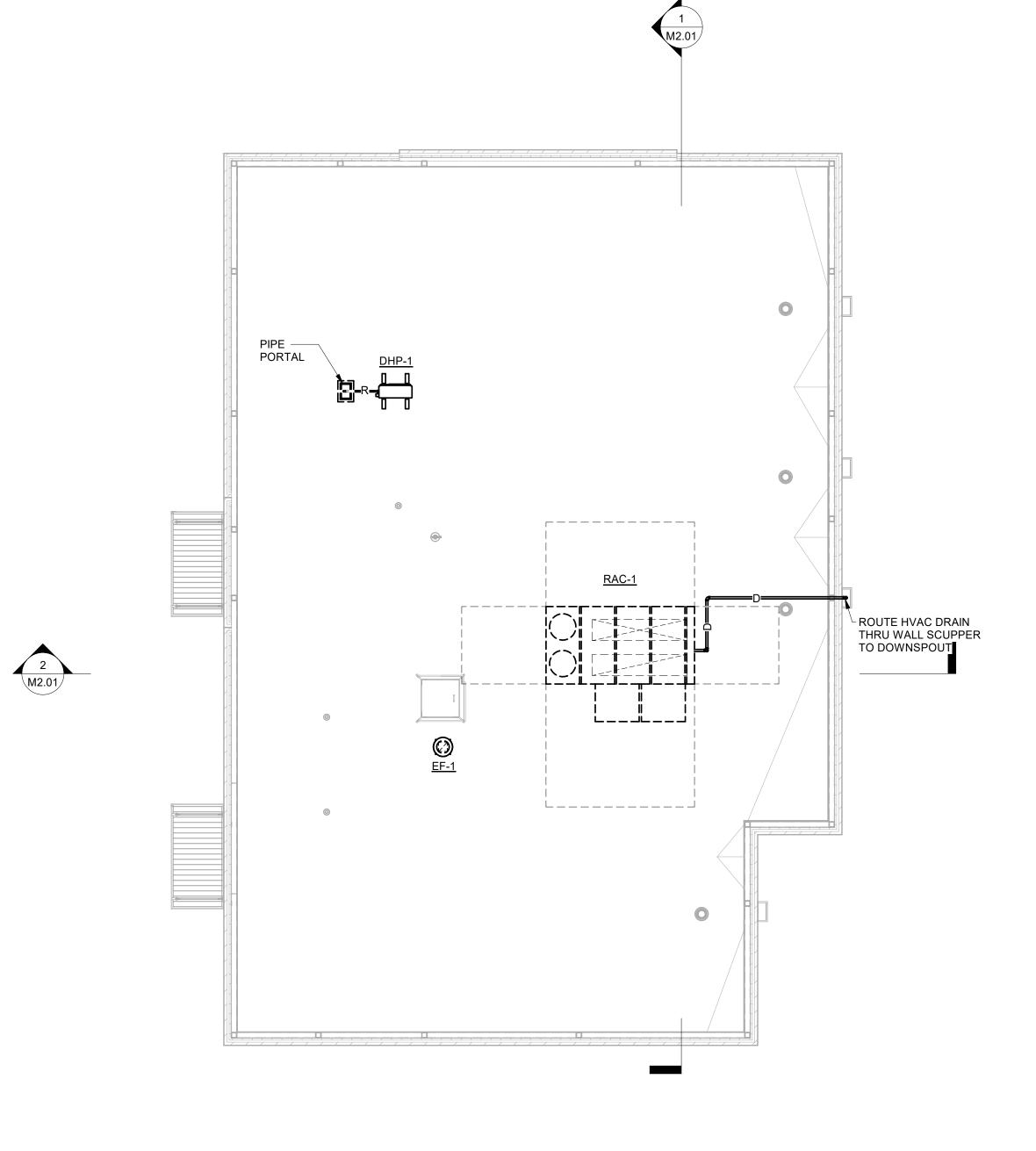




CONSTRUCTION DOCUMENT PACKAGE

GEORG/

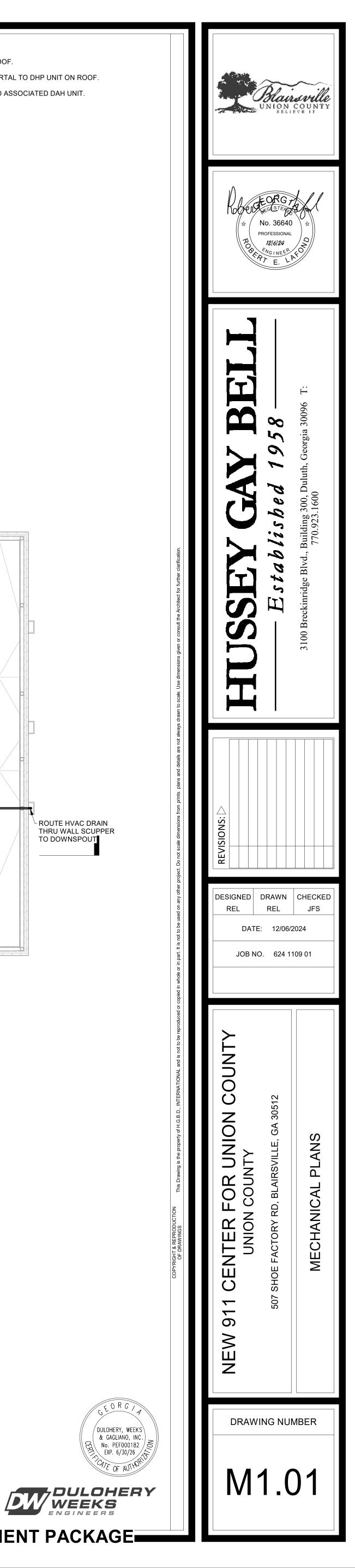


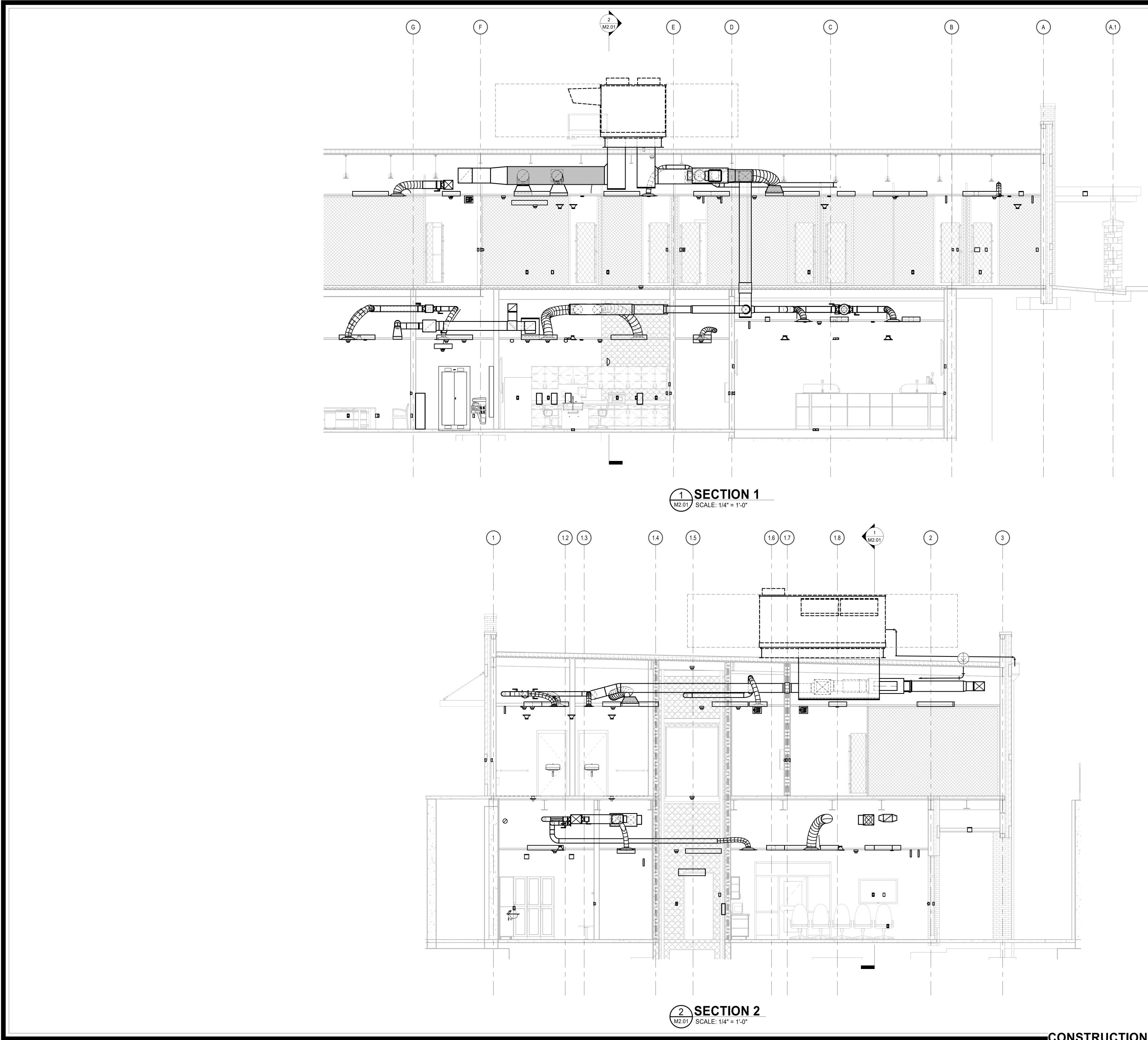


3. ROUTE REFRIGERANT PIPING DOWN IN WALL TO ASSOCIATED DAH UNIT.

SHEET NOTES

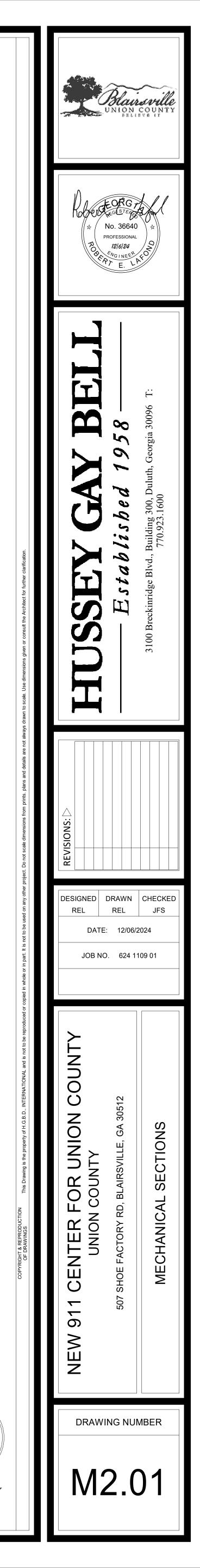
1. ROUTE REFRIGERANT PIPING UP IN WALL TO ROOF. 2. ROUTE REFRIGERANT PIPING UP THRU PIPE PORTAL TO DHP UNIT ON ROOF.

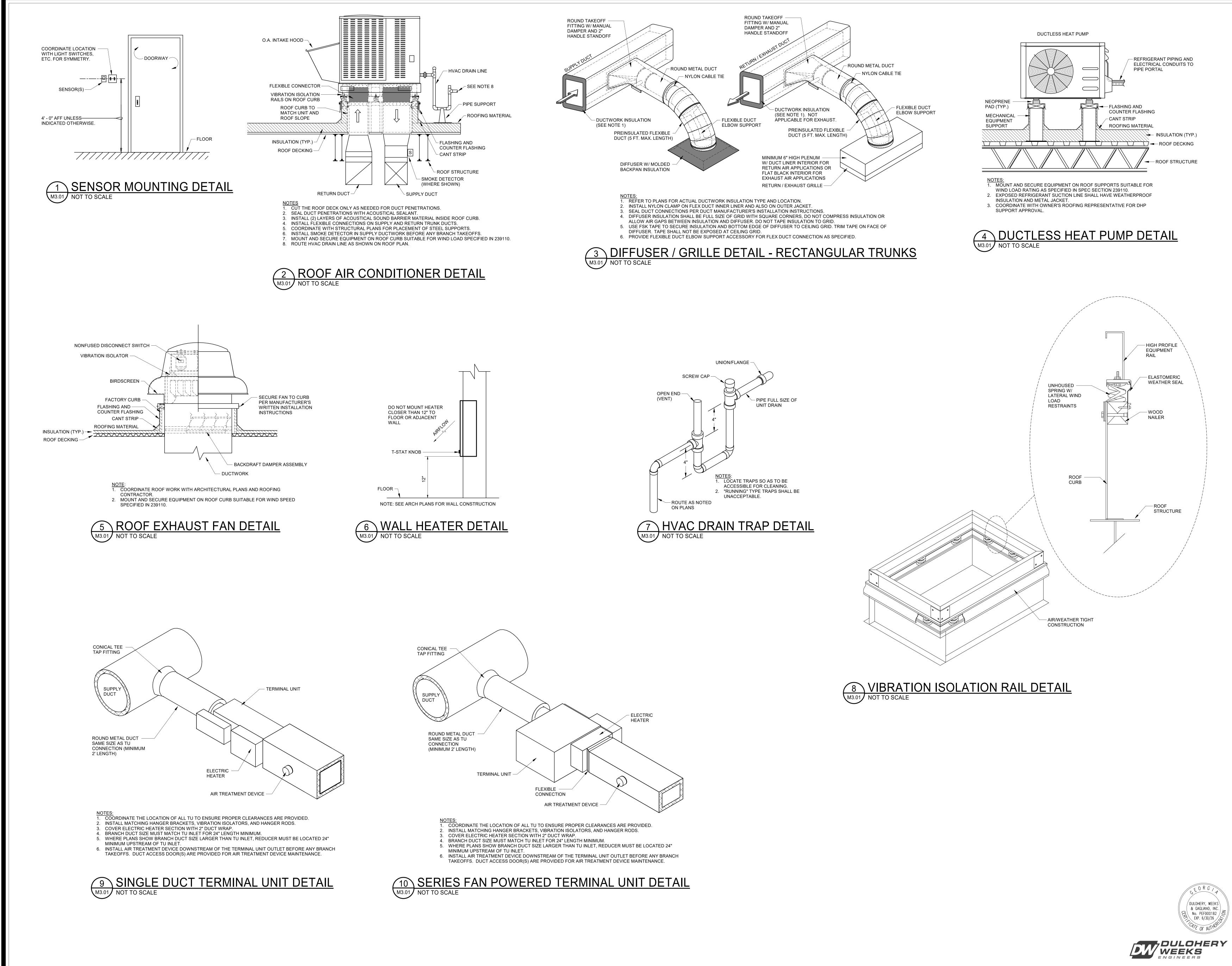


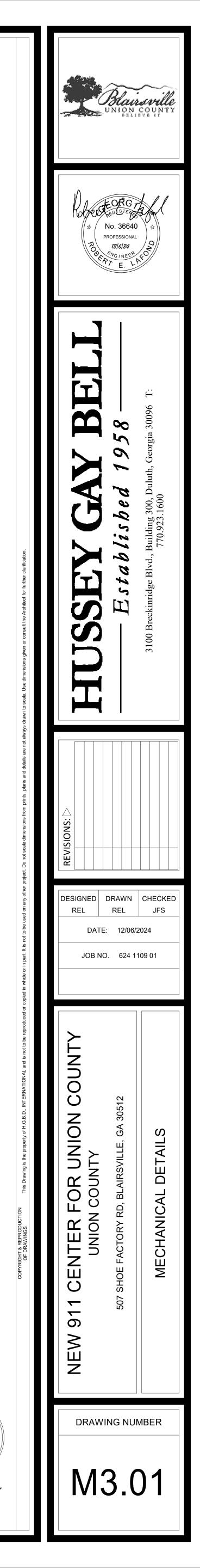


DULOHERY, WEEKS & GAGLIANO, INC. No. PEF000182 EXP. 6/30/26 THE OF AUTHORIT

GEORGIA







LEGEND:

| LEGE | ND: | |
|----------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIGHTING FIXT | URES: | |
| LIGHTING FIXT | URE SCHEDU SWITCH WILL F | ENT TO FIXTURE DENOTES DESIGNATION PER THE LE. LOWERCASE LETTER DENOTES SWITCHLEG. THE HAVE THE SAME DESTINATIONS. NUMERAL DENOTES ION. |
| REFER TO THE | E FIXTURE SCI | HEDULE FOR THE SPECIFIC FIXTURE INFORMATION. |
| NON- EMERGENCY | GENERATOF BACKUP | र |
| | | LIGHTING FIXTURE: LINEAR |
| | | LIGHTING FIXTURE: LINEAR |
| | | LIGHTING FIXTURE: LINEAR |
| ┝━━━┥ | ⊢∙ − | LIGHTING FIXTURE: STRIP |
| \square | | LIGHTING FIXTURE: WALL MTD. |
| $\otimes \Theta$ | •• | DOWNLIGHT/SCONCE FIXTURE |
| | ⊗ \varTheta ⊗⊣ | EXIT AREA OF REFUGE LIGHT: UNIVERSAL MTD. |
| | IFIER TAGS: | |
| IDENTIFIER TA | AGS ADJACEN | EVICE DENOTES BRANCH CIRCUIT CONNECTION. T TO DEVICES INDICATE: |
| С | | OUNT ABOVE COUNTERTOP OR BACKSPLASH, 9" BOVE WORK SURFACE TO CENTER |
| XX" WP | | OUNT DEVICE AT HEIGHT INDICATED |
| | | |
| RECEPTACLE | S: | |
| APPLICABLE, NEAREST THA | ADJUST SO DI AT HEIGHT. TH | IT OF RECEPTACLES SHALL BE 18" TO CENTER, UNO. IF EVICE COVER IS IN THE CENTER OF MASONRY COURSE IE HEIGHT ESTABLISHED SHALL GOVERN FOR ALL BOX STALLED IN MASONRY OR FRAMED WALLS. |
| θ | N | ORMAL POWER RECEPTACLE: SIMPLEX |
| € | | |
| ÷ | Τ | ORMAL POWER RECEPTACLE: GROUND-FAULT-INTERRUPTING |
| + + + | | ORMAL POWER RECEPTACLE: QUADRUPLEX MERGENCY GENERATOR POWERED RECEPTACLE: DUPLEX |
| # | Eľ | MERGENCY GENERATOR POWERED RECEPTACLE: QUADRUPLEX |
| - | | MERGENCY GENERATOR POWERED RECEPTACLE: GROUND- AULT-INTERRUPTING TYPE |
| ⊞ | LC SI FL AI | LUSH FLOOR BOX WITH (2) DUPLEX RECEPTACLES AND (2) DW VOLTAGE COMPARTMENTS. POVIDE LEGRAND RFBA ERIES 4 GANG FLOOR BX FOR ON-GRADE CONCRETE LOORS. COORDINATE FINISH OF COVERPLATE WITH RCHITECT. PROVIDE 1-1/4" CONDUIT FROM EACH LOW DLTAGE COMPARTMENT TO ABOVE ACCESSIBLE CEILING. |
| W | | ECTRIC WATER COOLER POWER CONNECTION. FED FROM FCI CIRCUIT BREAKER. |
| Ð | RI | ECEPTACLE: CEILING MOUNTED |
| | | |
| SAME MANNE | R AS SPECIFII NITCHLEG CO | TCHES SHALL BE 48" NOMINAL, ADJUSTED IN THE ED ABOVE, FOR RECEPTACLES. LOWERCASE LETTER NNECTION. THE RESPECTIVE FIXTURE(S) WILL HAVE |
| S | S | WITCH: SINGLE-POLE |
| S ₃ S4 | | WITCH: THREE-WAY TYPE WITCH: FOUR-WAY TYPE |
| S _a | S | WITCH: SUBSCRIPT THAT INDICATES CORRESPONDING IXTURES THAT SWITCH CONTROLS |
| SV | S S (" C 2 P | WITCH: LOW VOLTAGE OVERRIDE SWITCH FOR VACANCY ENSOR. WHERE MULTIPLE SUBSCRIPTS ARE INDICATED ab" FOR EXAMPLE) PROVIDE A PUSHBUTTON FOR EACH ORRESPONDING GROUP OF FIXTURES TO BE CONTROLLED 2 BUTTON SWITCH FOR "ab" FOR EXAMPLE). THE USHBUTTONS SHALL BE MOUNTED UNDER A SINGLE GANG ACEPLATE. |
| D | B | WITCH: DIMMER TYPE. DIMMER SHALL BE COMPATIBLE WITH ALLAST INSTALLED. PROVIDE ALL LOW VOLTAGE CABLING ND CONNECTIONS FOR 0 TO 10 VOLT DIMMING. |
| s _K | | |
| S _O | | |
| (0 _s) | | CCUPANCY SENSOR, CEILING MOUNTED |
| os | 0 | CCUPANCY SENSOR, WALL MOUNTED |
| (Va) | 1/ | ACANCY SENSOR, CEILING MOUNTED |

GROUND CONNECTION BRANCH CIRCUITS: CONDUCTOR COUNTS ARE SHOWN ON THE HOMERUNS ONLY. CONTRACTOR SHALL DETERMINE COUNTS FOR INTERMEDIATE RUNS BASED ON THE MANNER IN WHICH THE CIRCUIT ELEMENTS ARE CONNECTED. REFER TO THE SPECIFICATION SECTIONS 262010, 262080, & 262030 FOR SPECIAL REQUIREMENTS. $\overline{}$ BRANCH CIRCUIT: CONCEALED BRANCH CIRCUIT: CONCEALED IN FLOOR SLAB _____ BRANCH CIRCUIT: EXPOSED _____ 'HOMERUN' TO PANEL: NUMBER OF HASH MARKS INDICATES QUANTITY OF UNGROUNDED CONDUCTORS LA-1,3,5

IN MINIMUM 3/4" RACEWAY. GROUNDED CONDUCTORS (NEUTRALS) ARE NOT SHOWN. NUMBER OF ARROWHEADS DENOTES QUANTITY OF CIRCUITS INSTALLED. ONE DEDICATED NEUTRAL IS REQUIRED FOR EACH CIRCUIT INSTALLED, SEE SPECIFICATIONS. EACH CONDUCTOR SHALL BE MIN. #12 AWG UNLESS NOTED OTHERWISE. FOR MECHANICAL EQUIPMENT, SEE MECHANICAL EQUIPMENT RATINGS AND CONNECTIONS SCHEDULE FOR ELECTRICAL CHARACTERISTICS.

PROTECTION

SHEET

DISCONNECT SWITCH

DRY-TYPE TRANSFORMER

ELECTRICAL EQUIPMENT:

4

Т

<u>XX-1</u>

| FIRE ALARM: | |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F | FIRE ALARM PULL STATION. WALL MOUNTED WITH OPERABLE PART OF THE DEVICE AT 42" AFF. |
| X | FIRE ALARM SIGNAL, HORN AND FLASHING LIGHT, 80" AFF TO THE BOTTOM OF THE LINES. "C" DESIGNATION INDICATES CEILING MOUNTED. |
| 义 | FIRE ALARM STROBE LIGHT, 80" AFF TO THE BOTTOM OF THE |
| X | FIRE ALARM STROBE LIGHT, CEILING MOUNTED. |
| ¥ H | FIRE ALARM SIGNAL, HORN. 90" AFF TO THE TOP OF THE DEVICE. WEATHER PROOF. |
| $\langle 2 \rangle$ | FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED. |
| (2) | FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC DUC |
| $\langle \mathbf{I} \rangle$ | FIRE ALARM HEAT DETECTOR, 135 DEG, OPERATION. |
| \mathbf{O} | FIRE ALARM CARBON MONOXIDE DETECTOR. |
| DH | FIRE ALARM DOOR HOLDER, WALL MOUNTED, CONSULT ARCHITECTURAL DRAWINGS TO DETERMINE TYPE REQUIRED PROVIDE POWER FROM NEAREST RECEPTACLE CIRCUIT AND CONNECT TO FIRE ALARM SYSTEM. |
| VS | TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLI SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRIC |
| WF | FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRIC |
| FACP | FIRE ALARM CONTROL PANEL, FLUSH RECESSED WALL MOUN |
| FAA | FIRE ALARM REMOTE LCD ANNUNCIATOR PANEL. FLUSH RECESSED WALL MOUNTED. |
| SD | SMOKE DAMPER, 120V, PROVIDE POWER CONNECTION AND A NEEDED SMOKE DETECTION AND CONTROL MODULES AS REQUIRED BY NFPA 72 FOR PROPER OPERATION. |
| | |

GENERAL NOTES:

- 1. THE ELECTRICAL DRAWINGS ARE ONLY PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- TO HOMERUNS SHOWN AND CORRESPONDING CIRCUIT NUMBERS ADJACENT TO THE DEVICE OR FIXTURE. REFER TO THE SPECIFICATIONS FOR THE WIRING METHODS. BRANCH CIRCUIT RATINGS SHALL BE BASED ON OVERCURRENT DEVICE RATINGS SHOWN IN THE PANEL SCHEDULES.
- 3. REFER TO THE ELECTRICAL PANELBOARD SCHEDULES AND EQUIPMENT RATINGS & CONNECTIONS SCHEDULE FOR VOLTAGE, BRANCH CIRCUITS REQUIREMENTS, BREAKERS SIZES AND OTHER RELATED ELECTRICAL EQUIPMENT TO BE PROVIDED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.

PC PHOTOCELL: LOCATE UNDER EAVES, FACING NORTH, AVOID ANY OTHER OUTSIDE LIGHT SOURCE

VACANCY SENSOR, CEILING MOUNTED

VACANCY SENSOR, WALL MOUNTED

 (v_s)

VS

REFER TO ONE-LINE DIAGRAM AND EQUIPMENT CONNECTION SCHEDULE FOR LOAD DATA USED AS THE BASIS OF DESIGN AND REQUIRED CONNECTIONS. VERIFY LOAD AND LOCATION WITH EQUIPMENT CUT-SHEETS AND INSTALLER.

SWITCH: MOTOR RATED, WITHOUT OVERLOAD

PANELBOARD: SURFACE MOUNTED

EQUIPMENT AS NOTED, SEE ABBREVIATIONS, THIS

VALL MOUNTED WITH VICE AT 42" AFF.

80" AFF TO THE BOTTOM OF THE LENS. CEILING MOUNTED.

90" AFF TO THE TOP OF THE

FOR, CEILING MOUNTED.

ETECTOR LOCATED IN HVAC DUCT.

WALL MOUNTED, CONSULT TO DETERMINE TYPE REQUIRED. REST RECEPTACLE CIRCUIT AND

STEM D AND INSTALLED WITH SPRINKLER FIRE ALARM SYSTEM BY ELECTRICAL.

AND INSTALLED WITH SPRINKLER FIRE ALARM SYSTEM BY ELECTRICAL.

L, FLUSH RECESSED WALL MOUNTED. NNUNCIATOR PANEL. FLUSH

/IDE POWER CONNECTION AND ALL AND CONTROL MODULES AS PROPER OPERATION.

2. WHERE COMPLETE BRANCH CIRCUIT WIRING IS NOT SHOWN, PROVIDE ACCORDING

MISCELLANEOUS COMPONENTS:

J

J JUNCTION BOX: MTD. ABOVE CEILING

BDA / ERRC SYSTEM NOTES: 1. THE CONTRACTOR SHALL PROVIDE A COMPLETE BI-DIRECTIONAL ANTENNA (BDA)

JUNCTION BOX: WALL MTD.

SYSTEM FOR EMERGENCY RESPONDER RADIO COVERAGE (ERRC) FOR THE ENTIRE BUILDING. THE BDA/ERRC SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN FCC CERTIFIED TECHNICIAN TRAINED ON THE SYSTEM BEING INSTALLED. THE SYSTEM SHALL COMPLY WITH UL 2524, NFPA 72, NFPA 1221 AND IFC. THE SYSTEM SHALL BE OF THE SAME MANUFACTURER AS THE FIRE ALARM SYSTEM. BDA SYSTEM DESIGN SHALL BE SUBMITTED WITH THE FIRE ALARM SYSTEM SHOP DRAWINGS FOR ENGINEER'S REVIEW. PROVIDE ROOF PENETRATION AS REQUIRED FOR ROOF MOUNTED ANTENNA -COORDINATE WITH ARCHITECT FOR LOCATION. CRITICAL AREAS SHALL BE PROVIDED WITH 100% FLOOR AREA RADIO COVERAGE. GENERAL

SPECIFIED BY AHJ. 2. BDA/ERRC SYSTEM SHALL BE A DEDUCTIVE ALTERNATE IN THE BID PRICE. RADIO SIGNAL COVERAGE IN THE BUILDING SHALL BE TESTED NEAR THE END OF BUILDING ONSTRUCTION AFTER ALL WALLS, CEILINGS, ROOF AND MAJOR COMPONENTS HAVE EEN INSTALLED. THE PRICE OF THE SYSTEM SHALL BE OFFERED BACK TO OWNER NLY IF RADIO SIGNALS (WITHOUT THE BDA/ERRC SYSTEM) MEET THE COVERAGE REQUIREMENTS LISTED ABOVE.

BUILDING AREAS SHALL BE PROVIDED WITH 95% RADIO COVERAGE, OR AS

ΔF FΜ OA OB RF XA

ITEM AV BP-1 DHP/DAH-1 EF-1 EH-1 HWCP-1 JH/JH1 JHL RAC-1 TU-1 TU-2 TU-3 TU-4 TU-5 WH-1

MATERIALS MAY BE ORDERED.

| | | LIG | HTING FIXTURE SC | HEDULE | | | |
|------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------|
| TYPE | DESCRIPTION | MANUFACTURER/SERIES | REFLECTOR/DIFFUSER | FINISH | MOUNTING | LAMPS | NOTES |
| A | 2'X4' VOLUMETRIC LED TROFFER | LITHONIA VTL SERIES COLUMBIA | ACRYLIC LINEAR PRISMATIC CENTER DIFFUSER WITH | WHITE | RECESSED | 4000 LUMENS 33W 4000K | 0-10V DIMMING |
| A2 | 2'X2' VOLUMETRIC LED TROFFER | METALUX CRUZ SERIES DAY-BRITE | DIFFUSER TRIM RINGS | WINE | CEILING | 3300 LUMENS 27W 4000K | TO 1% |
| AF | 2'X4' VOLUMETRIC LED TROFFER | LITHONIA VTL SERIES COLUMBIA METALUX CRUZ SERIES DAY-BRITE | ACRYLIC LINEAR PRISMATIC CENTER DIFFUSER WITH DIFFUSER TRIM RINGS | WHITE | RECESSED CEILING. FLANGE MOUNTED. | 4000 LUMENS 33W 4000K | |
| В | 2'X4' LED FLAT PANEL SELECTABLE LUMENS | LITHONIA CPANL SERIES ELITE 22FPLBL SERIES METALUX FPS SERIES ILP VPAN SERIES | FROSTED ACRYLIC LENS | WHITE | RECESSED CEILING | 4000 LUMENS 40W 4000K | |
| С | 4' LONG LED VAPORTIGHT LIGHT | LITHONIA DMW2 SERIES METALUX 4VT3 SERIES COLUMBIA LXEM SERIES ILP WTZ SERIES | FIBERGLASS REINFORCED POLYESTER HOUSING, HIGH IMPACT POLYCARBONATE LENS | WHITE | SURFACE | 4,000 LUMENS 32W 4000K | WET LOCATION, IP67 LISTED |
| D | 6" ROUND LED DOWN LIGHT | LITHONIA LDN6 SERIES HALO COMMERCIAL PD6 SERIES PRESCOLITE LF6 SERIES INTENSE IML6, ELITE HH6 | OPEN SEMI-SPECULAR CLEAR ALZAK CONE. MEDIUM BEAM SPREAD. | TRIM RING - WHITE | RECESSED CEILING | 2000 LUMENS 22.5W 4000K | 0-10V DIMMING TO 1% |
| E | 4' LED STRIP | LITHONIA ZL1D SERIES METALUX SRLED SERIES COLUMBIA LCL SERIES ELITE OEC SERIES | FROSTED DROP LENS | WHITE (HOUSING) | SURFACE OR SUSPENDED | 5,000 LUMENS 41W 4000K | |
| ЕМ | 2 HEAD, WALL MOUNTED EMERGENCY FIXTURE | LITHONIA "ELM" SERIES BEGHELI HUBBELL SURE-LITE DUAL-LITE | | WHITE | WALL MOUNTED | LED | 90 MIN. BATTERY |
| OA | LED WALL PACK SURFACE MOUNT VANDAL RESISTANT | LITHONIA WDGE SERIES MCGRAW/EDISON IST SERIES SPAULDING TRP SERIES GARDCO 101 SERIES HUBBELL TRP2 SERIES | TYPE IV DISTRIBUTION | BY ARCHITECT | WALL MOUNTED | 4000 LUMENS 45W 4000K | |
| OB | SQUARE SEMI- RECESSED SOFFIT LIGHT | LITHONIA SCNY LED SERIES MCGRAW/EDISON SPAULDING GARDCO HUBBELL | FLAT POLYCARBONATE FROSTED LENS | WHITE | RECESSED | 4200 LUMENS 28W 4000K | |
| SL | POLE MOUNTED SITE LIGHT | LITHONIA DSX1 SERIES BEACON VIPER SERIES GARDCO PUREFORM SERIES ILP SKYLINE SERIE | TYPE 3 MEDIUM DISTRIBUTION | BY ARCHITECT | PROVIDE 30' SQUARE STEEL POLE | LED: 20,939 LUMENS, 165W, 4000K | |
| XA | SINGLE FACE EXIT | BEGHELLI OL2 SERIES HUBBELL LE SERIES SURE-LITE ES SERIES | GREEN LETTERS "EXIT" | INJECTION MOLDED CLEAR ACRYLIC LENS | CEILING | LED | |
| XB | DOUBLE FACE EXIT | EMERGILITE LXN SERIES DUAL-LITE LES SERIES LITHONIA EDGR SERIES | | W/RECESSED HOUSEING | | | |

| | | MECHA | NICAL EQUI | PMENT RAT | INGS AND CONNE | ECTIONS | | |
|-------|----|-------|------------|-----------|----------------|------------|--------------------|--------|
| VOLT | PH | FLA | MCA | MOCP | PANEL CKT | DISCONNECT | WIRE SIZE | NOTES |
| | | | | | | | | |
| 120 V | 1 | 15 | 15 | 20 | EM1-71 | MRS | 2#12,#12G,1/2"C. | |
| 208 V | 3 | 16.7 | 20 | 30 | EM1-60,62,64 | 30A/3P | 3#10,#10G,3/4"C. | |
| 208 V | 1 | 33 | 33 | 35 | EM1-46,48 | 60A/2P/3R | 2#8,#10G,3/4"C. | NOTE 4 |
| 120 V | 1 | 2.2 | 3 | 15 | EM1-50 | BY DIV 23 | 2#12,#12G,1/2"C. | |
| 208 V | 1 | 23.1 | 25 | 30 | EM1-66,68 | BY DIV 23 | 2#10,#10G,3/4"C. | |
| 120 V | 1 | 4 | 5 | 20 | EM1-81 | MRS | 2#12,#12G,1/2"C. | |
| 208 V | 3 | 92.3 | 100 | 125 | EM1-61,63,65 | 200A/3P | 3#1/0,#6G,1-1/2"C. | |
| 208 V | 1 | 15 | 15 | 20 | EM1-67,69 | 30A/2P | 2#12,12G,1/2"C. | |
| 208 V | 3 | 138 | 138 | 175 | EM1-40,42,44 | BY DIV 23 | 3#2/0,#6,2"C. | |
| 208 V | 3 | 34 | 34 | 35 | EM1-28,30,32 | BY DIV 23 | 3#8,#10G,3/4"C. | |
| 208 V | 3 | 12.1 | 12.1 | 15 | EM1-34,36,38 | BY DIV 23 | 3#12,#12G,1/2"C. | |
| 208 V | 3 | 12.1 | 12.1 | 15 | EM1-43,45,47 | BY DIV 23 | 3#12,#12G,1/2"C. | |
| 208 V | 3 | 44.5 | 44.4 | 45 | EM1-49,51,53 | BY DIV 23 | 3#6,#10G,1"C. | |
| 208 V | 3 | 49.6 | 49.6 | 50 | EM1-55,57,59 | BY DIV 23 | 3#6,,#10G,1"C. | |
| 208 V | 3 | 28.9 | 30 | 40 | EM1-54,56,58 | 60A/3P | 3#8,#10G,3/4"C. | |

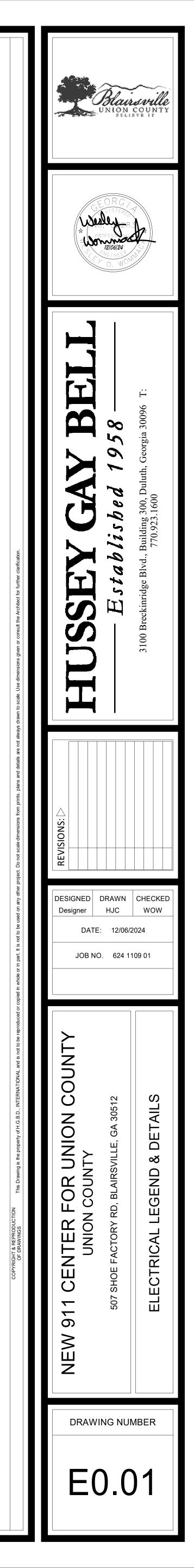
MECHANICAL EQUIPMENT RATINGS AND CONNECTION SCHEDULE NOTES:

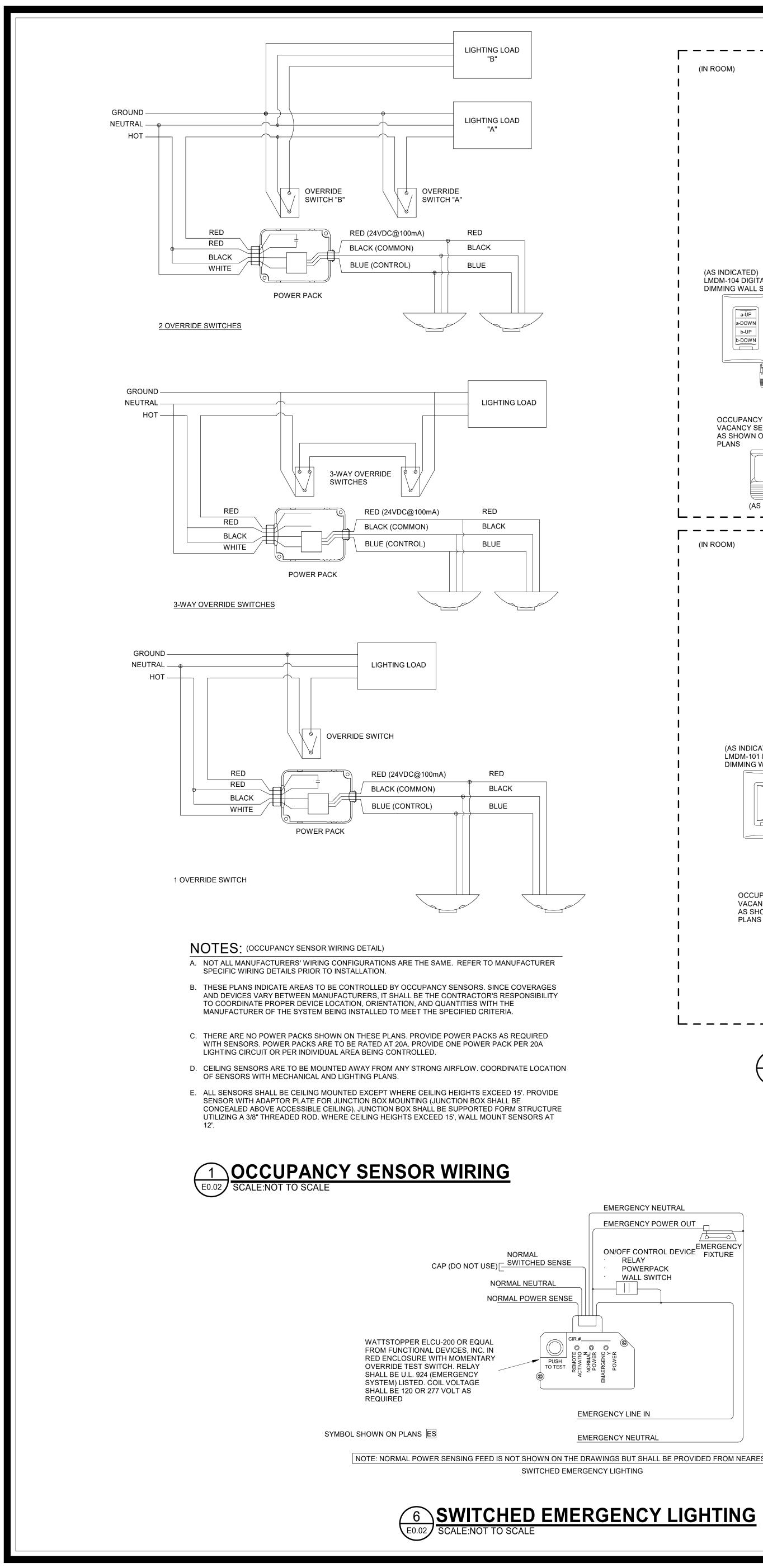
1. REFER TO SECTION 260120 FOR THE COORDINATION AFFIDAVIT THAT MUST BE SUBMITTED AND APPROVED BEFORE

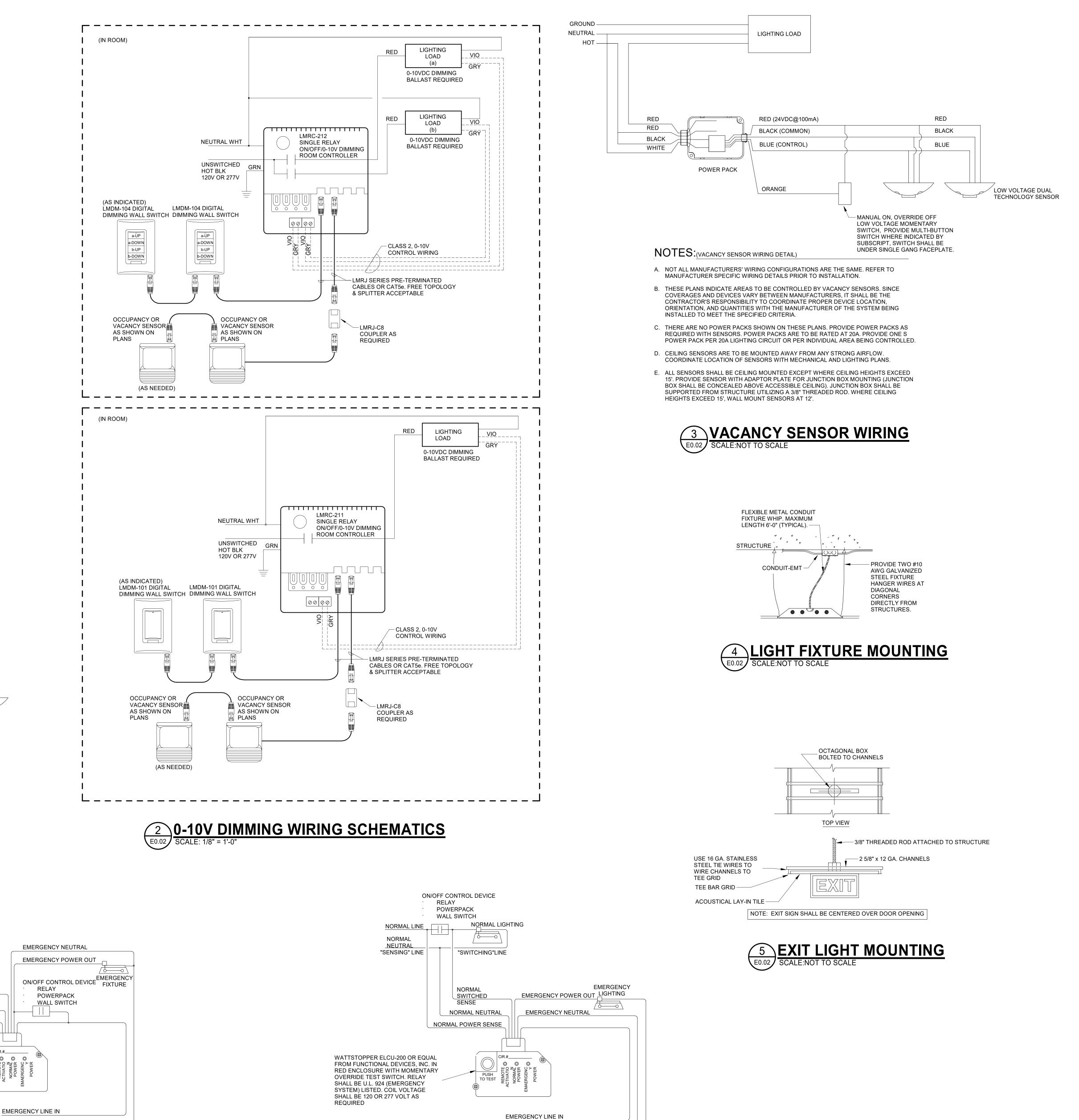
2. THE DESIGN IS BASED ON SINGLE POINT CONNECTIONS TO ALL EQUIPMENT, UNLESS NOTED OTHERWISE.

3. WHERE STARTER IS REQUIRED BY DIV 26, IT IS SHOWN AS SIZE 1, ETC. ALL STARTERS SHALL BE COMBINATION TYPE UNLESS INDICATED OTHERWISE. DISCONNECTS ARE SHOWN AS 30/3/1, ETC.

4. THE INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT. PROVIDE 30 AMP, 3 POLE TOGGLE SWITCH ON LINE SIDE OF INDOOR UNIT. REFER TO UNIT CUT-SHEETS FOR CONNECTION REQUIREMENTS. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR ALL WIRING COMPONENTS AND INSTALLATION.

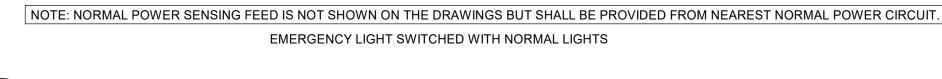






EMERGENCY NEUTRAL

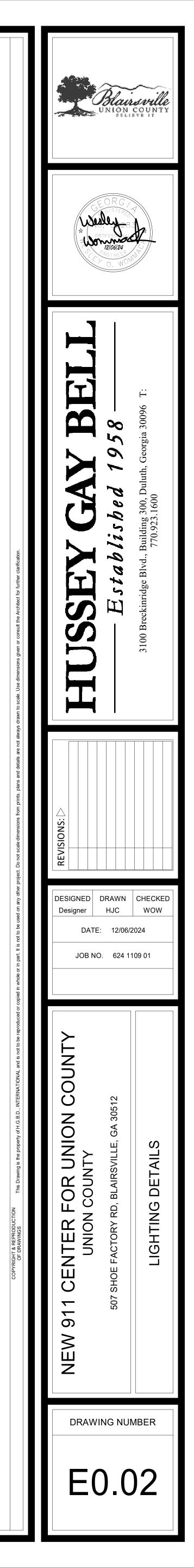
NOTE: NORMAL POWER SENSING FEED IS NOT SHOWN ON THE DRAWINGS BUT SHALL BE PROVIDED FROM NEAREST NORMAL POWER CIRCUIT.

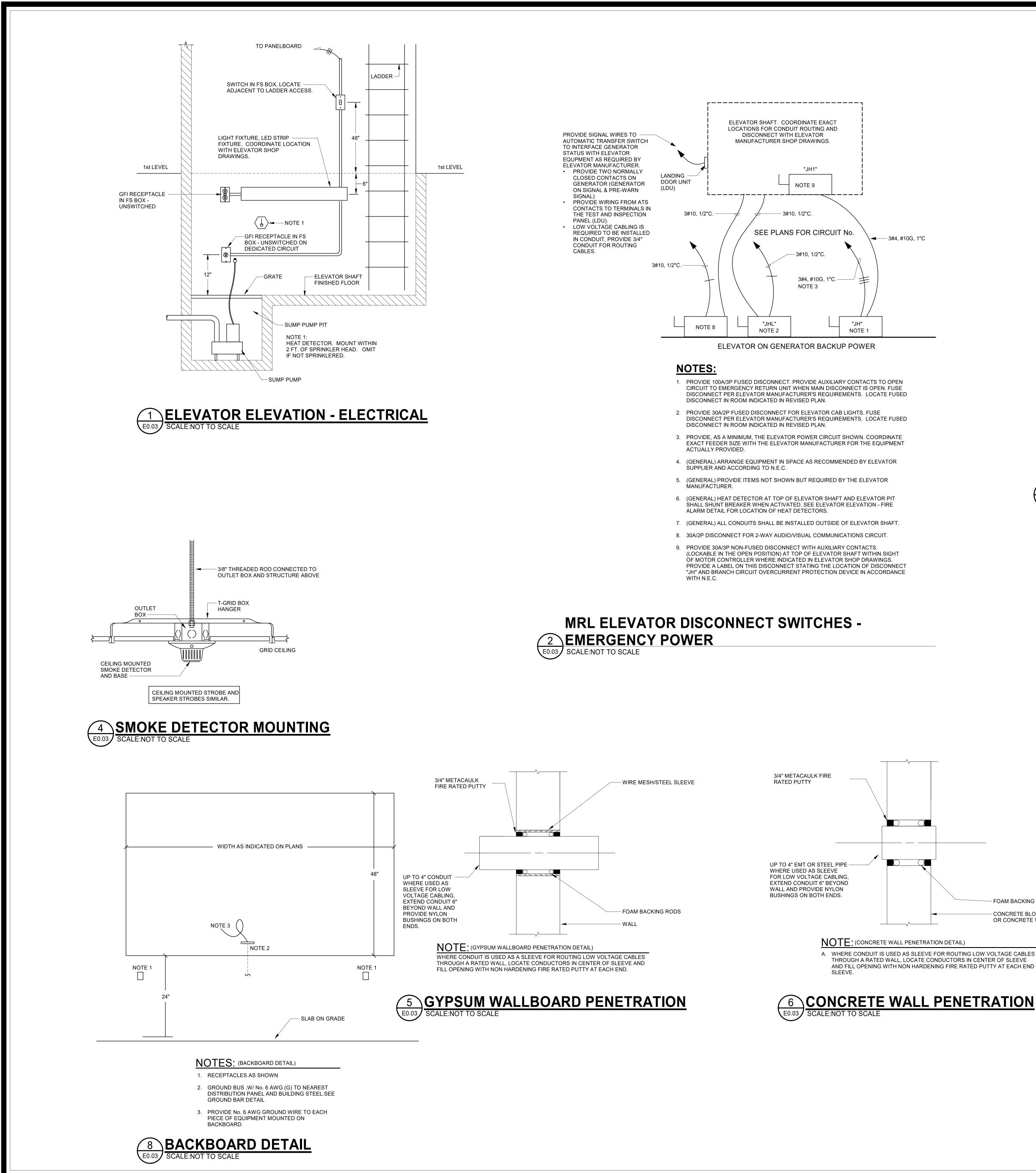


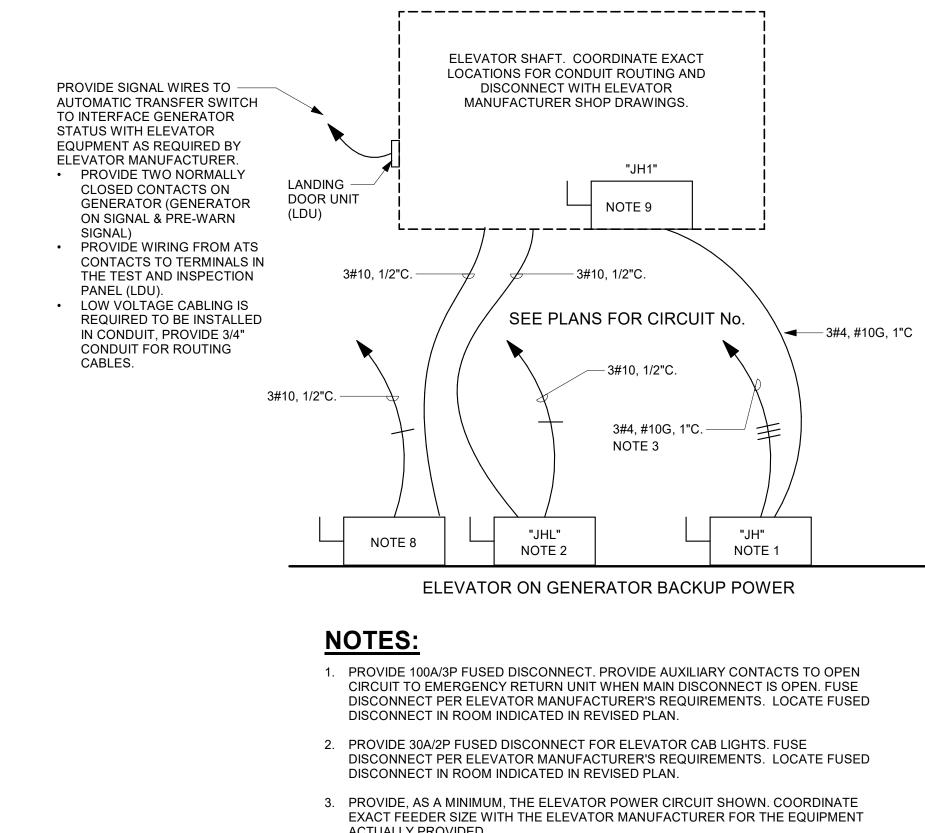


SYMBOL SHOWN ON PLANS EN

EMERGENCY NEUTRAL





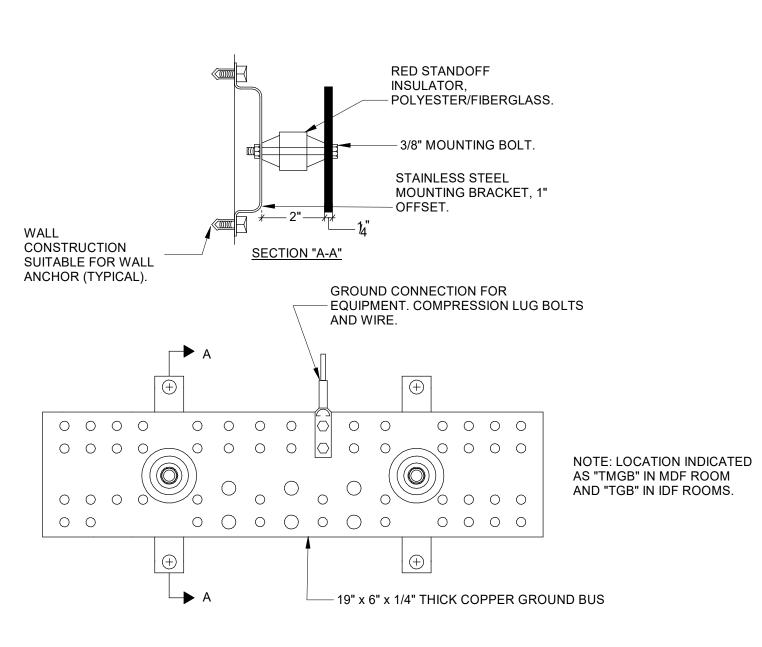


E0.03 SCALE:NOT TO SCALE

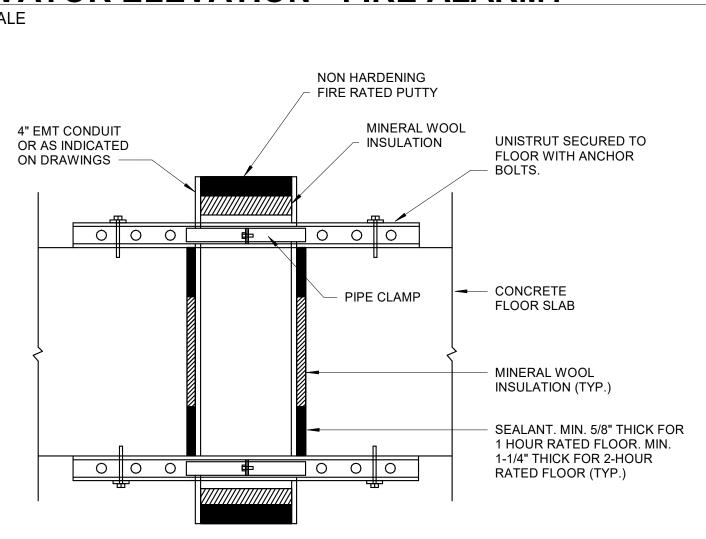




- FOAM BACKING RODS - CONCRETE BLOCK (CMU) OR CONCRETE WALL







A. COORDINATE INSTALLATION OF DETECTORS WITH ELEVATOR EQUIPMENT.

C. THE EXACT PLACEMENT OF DETECTORS SHALL BE FIELD DETERMINED IN

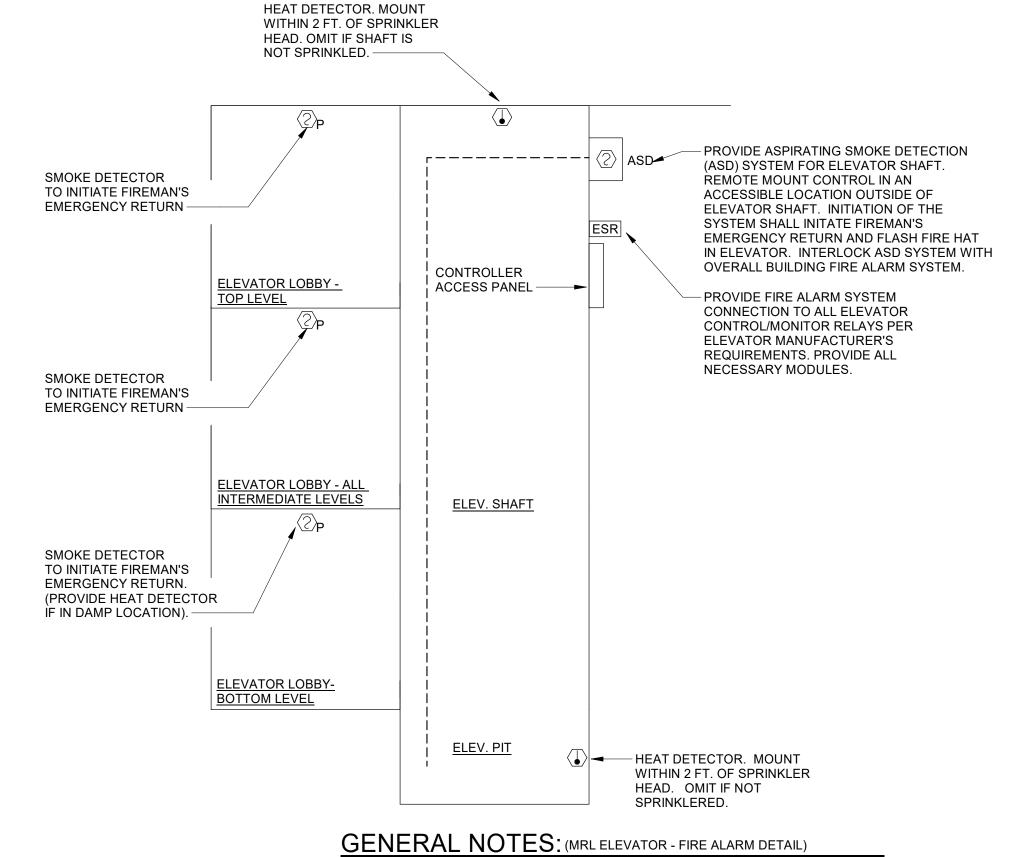
TO INITIATE ELEVATOR POWER SHUTOFF UPON ACTIVATION.

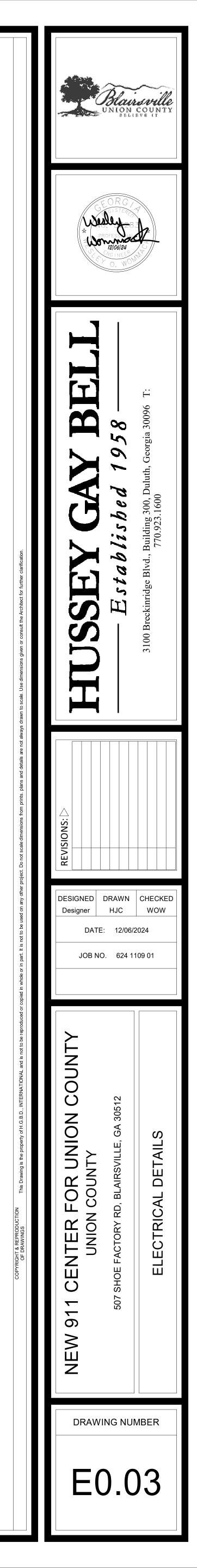
D. THIS DETAIL SHALL BE ADAPTED AS REQUIRED FOR ALL ELEVATORS.

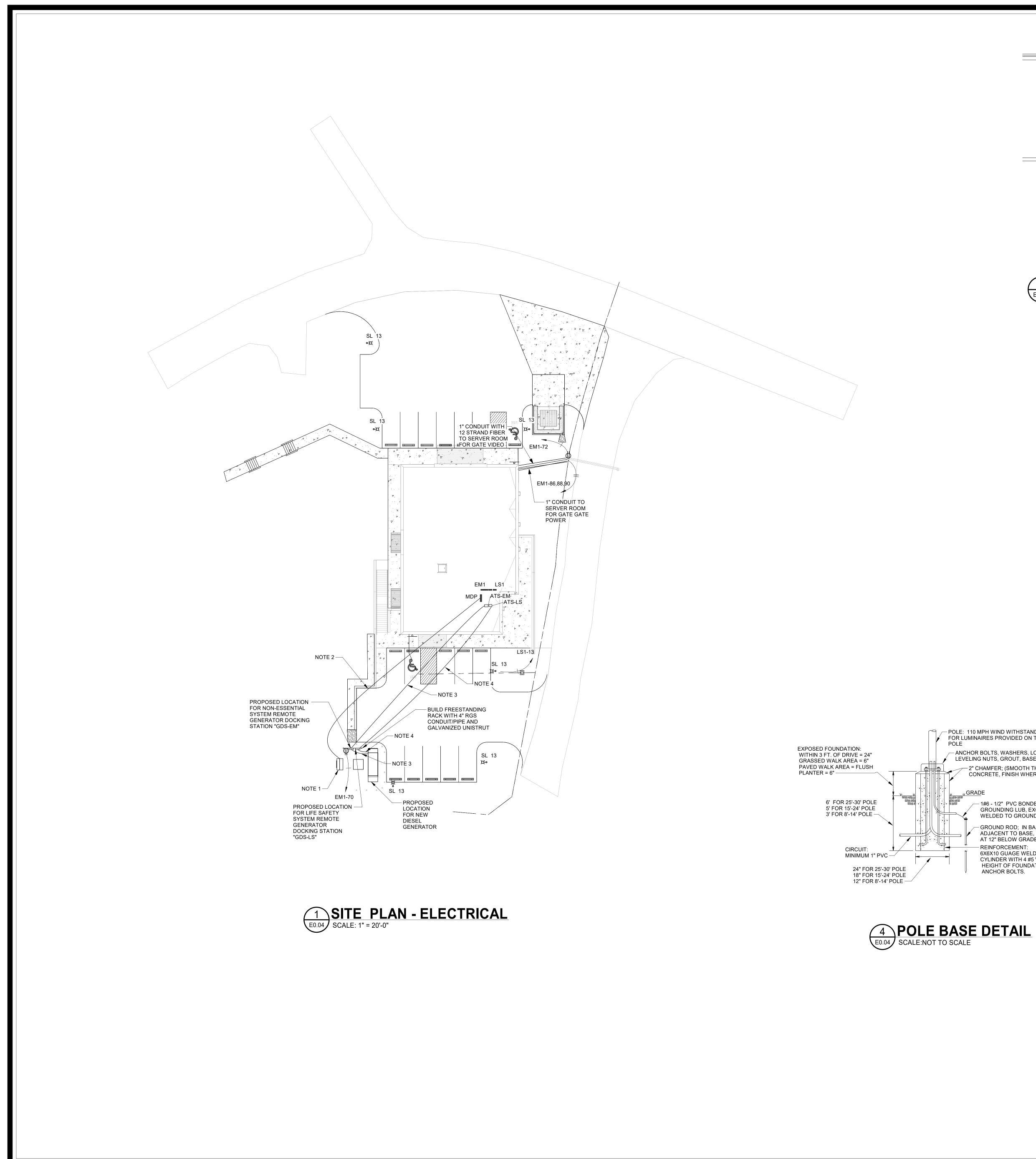
B. INTERLOCK HEAT DETECTORS WITH SHUNT TRIP BREAKER SERVING ELEVATOR

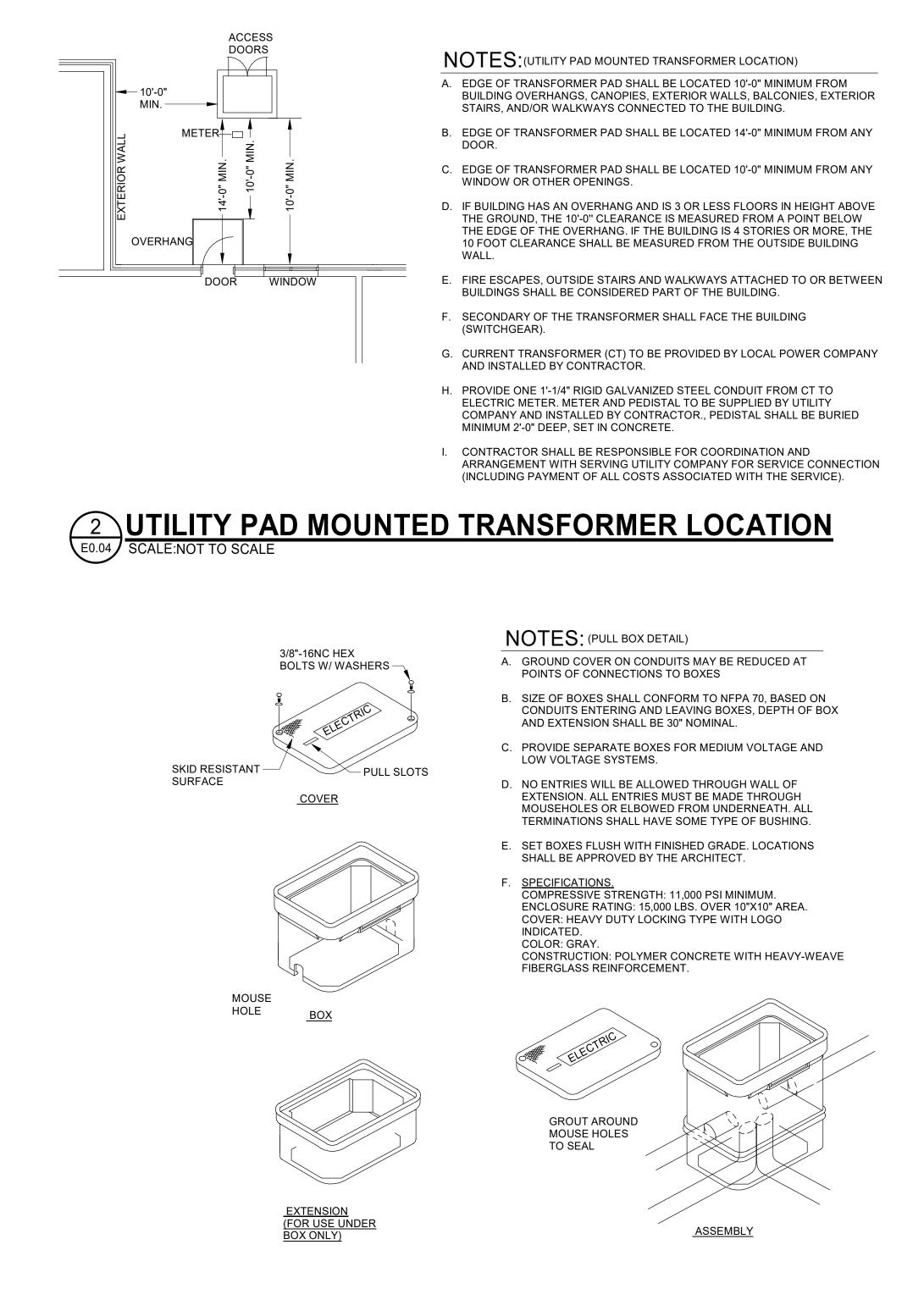
ACCORDANCE WITH ASME A17.1, NFPA 72, AND THE ELEVATOR MANUFACTURER.

3 E0.03 MRL ELEVATOR ELEVATION - FIRE ALARM1 SCALE:NOT TO SCALE











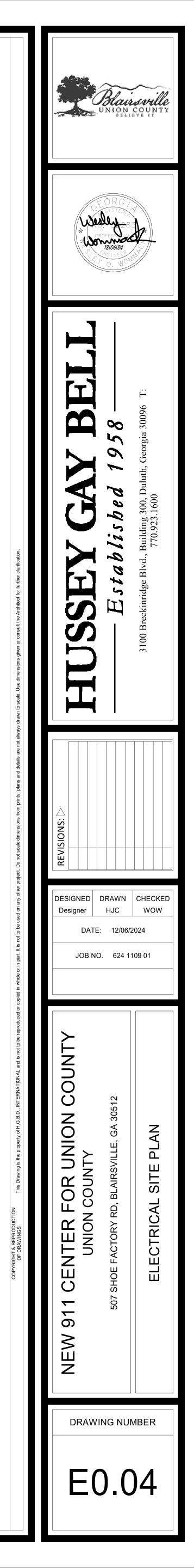
POLE: 110 MPH WIND WITHSTAND FOR LUMINAIRES PROVIDED ON THIS

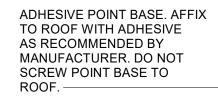
- POLE - ANCHOR BOLTS, WASHERS, LOCKWASHERS, LEVELING NUTS, GROUT, BASE COVER 2" CHAMFER; (SMOOTH THE CONCRETE, FINISH WHERE EXPOSED)
- GRADE - 1#6 - 1/2" PVC BONDED TO POLE GROUNDING LUB, EXOTHERMICALLY WELDED TO GROUND ROD - GROUND ROD; IN BASE OR ADJACENT TO BASE, 3/4"x 10'-0" TOP AT 12" BELOW GRADE
 - REINFORCEMENT: 6X6X10 GUAGE WELD WIRE MESH IN A CYLINDER WITH 4 #5 VERTICAL REBAR, HEIGHT OF FOUNDATION ; TIED TO ANCHOR BOLTS.

- **GENERAL NOTES:**
- A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICIAL SURVEYS AND OTHER TRADES.
- B. CONTACT UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. PROVIDE GRS ELBOWS PAINTED WITH BITUMINOUS PAINT TO TRANSITION TO ABOVE
- GRADE OR SLAB. D. CONTRACTORS SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO
- ROUGH-IN. ALL NEW INSTALLATION SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.
- E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITIES FOR THIS PROJECT.
- F. MINIMUM SIZE OF ALL CONDUITS ON THIS SHEET SHALL BE 3/4 IN.
- G. PROVIDE PULL BOXES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN, SEE PULL BOX DETAIL.

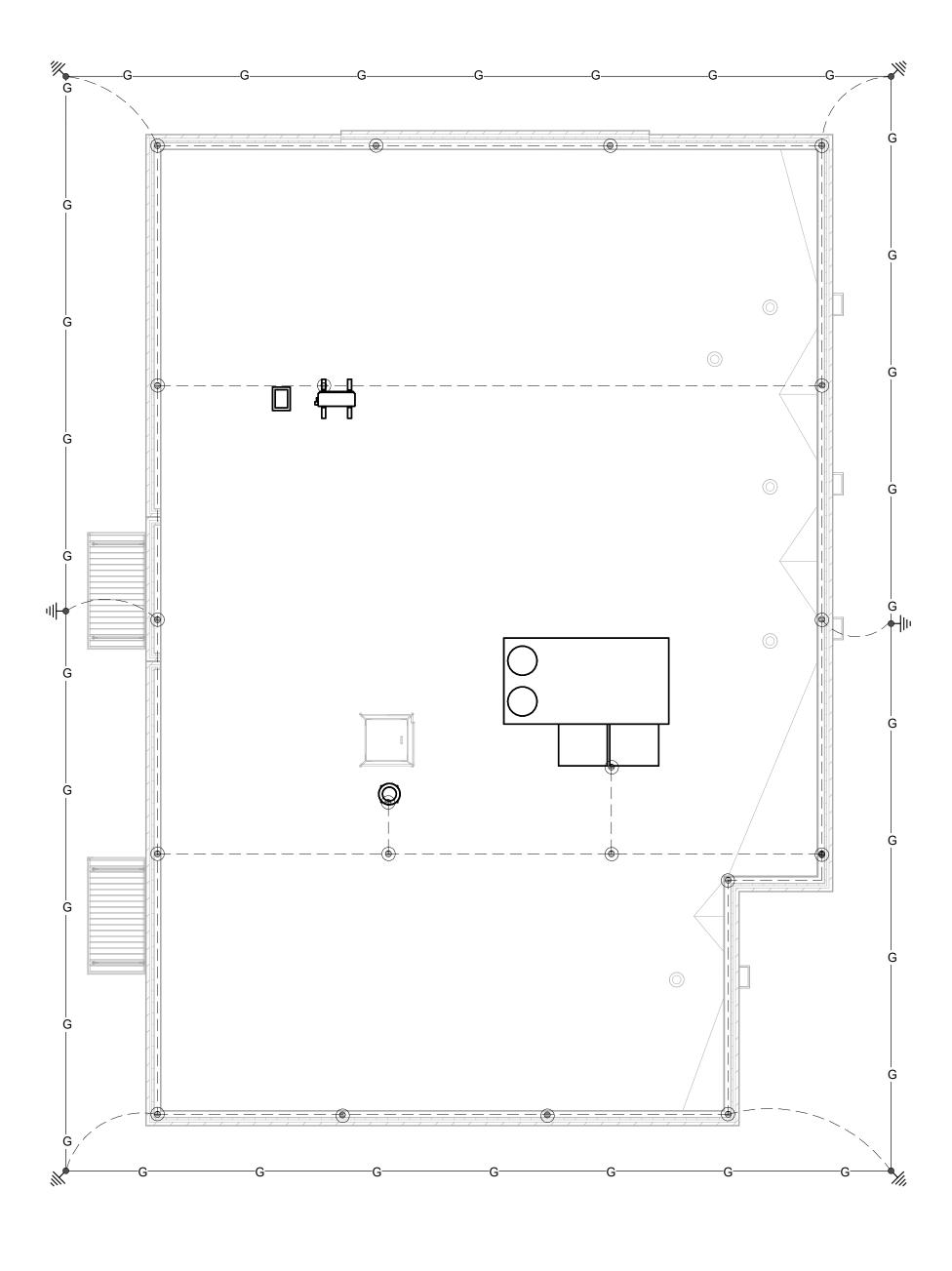
NOTES:

- 1. PROPOSED LOCATION OF NEW PAD MOUNTED UTILITY TRANSFORMER AND METER. TRANSFORMER FURNISHED AND INSTALLED BY UTILITY COMPANY, REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL PLAN AND REFER TO UTILITY PAD MOUNTED TRANSFORMER LOCATION DETAIL,2/E0.04. COORDINATE WITH ELECTRIC POWER UTILITY FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO BID.
- 2. PROVIDE CONDUIT BELOW GRADE FROM NEW UTILITY TRANSFORMER TO PANEL 'MDP'. CONDUITS SHALL BE GALVANIZED RIGID STEEL UNDER PARKING AND DRIVE AREAS. REFER TO RISER DIAGRAM FOR SERVICE CONDUCTOR QUANTITY AND SIZING.
- 3. PROVIDE CONDUIT BELOW GRADE FROM NEW GENERATOR TO NEW GENERATOR DOCKING STATION 'GDS-EM' AND FROM 'GDS-EM' TO NEW AUTOMATIC TRANSFER SWITCH 'ATS-EM'. CONDUITS SHALL BE GALVANIZED RIGID STEEL UNDER PARKING AND DRIVE AREAS. REFER TO RISER DIAGRAM FOR CONDUCTOR QUANTITY AND SIZING.
- 4. PROVIDE CONDUIT BELOW GRADE FROM NEW GENERATOR TO NEW GENERATOR DOCKING STATION 'GDS-EM' AND FROM 'GDS-LS' TO NEW AUTOMATIC TRANSFER SWITCH 'ATS-LS'. CONDUITS SHALL BE GALVANIZED RIGID STEEL UNDER PARKING AND DRIVE AREAS. REFER TO RISER DIAGRAM FOR CONDUCTOR QUANTITY AND SIZING.

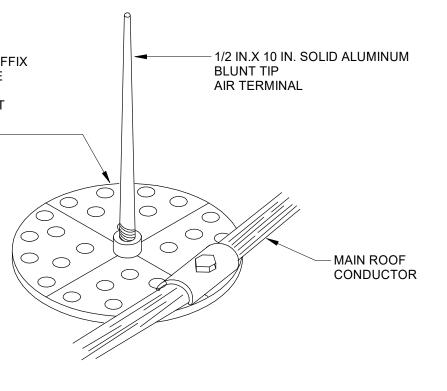








1 E0.05 **LIGHTNING PROTECTION PLAN - ROOF** SCALE: 1/8" = 1'-0"



<u>2</u>LIGHTNING POINT ATTACHMENT DETAIL

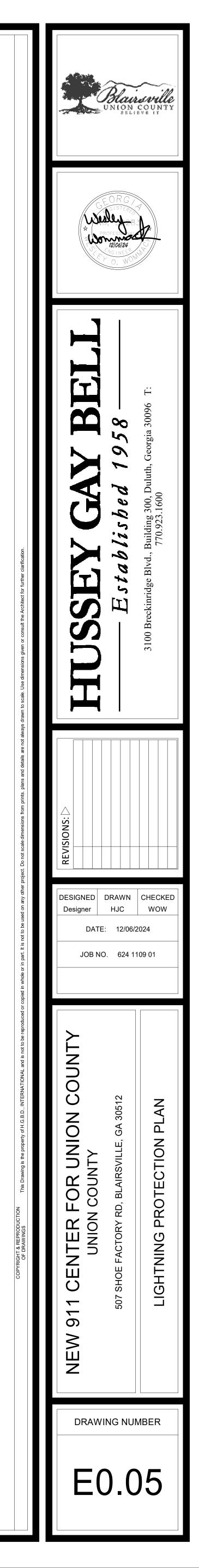
GENERAL NOTES:

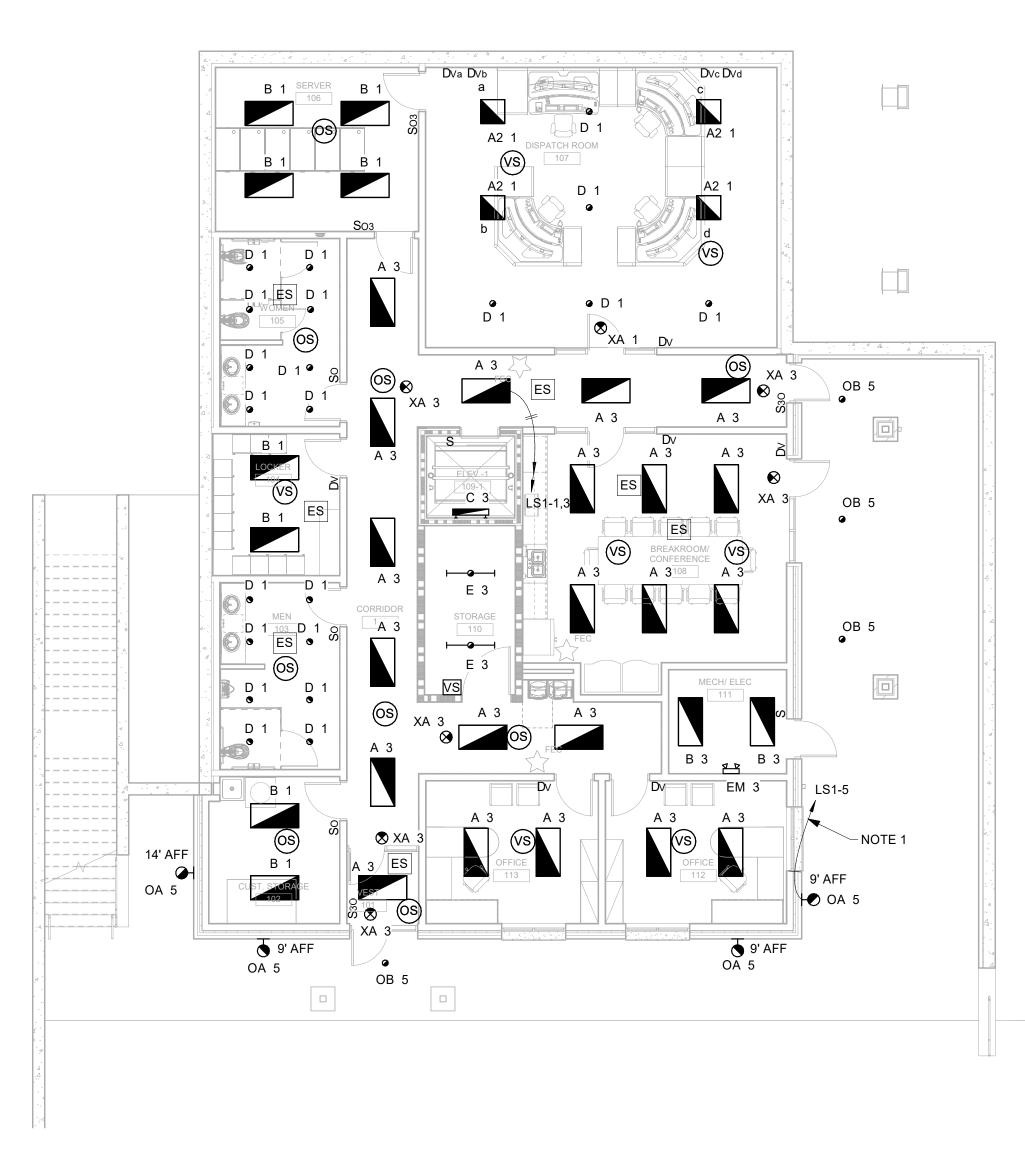
- A. LOCATE AIR TERMINALS AS SHOWN OR AS REQUIRED TO ACHIEVE U.L. MASTER LABEL. PROVIDE ADDITIONAL ELECTRODES AND DOWN CONDUCTORS AS REQUIRED ALSO TO MEET NFPA 78 AND UL96A.. TAKE CARE TO ENSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS AND RIDGE ENDS, AND THAT MAXIMUM SPACING DOES NOT EXCEED 20'-0", AND THAT MINIMUM PROJECTION ABOVE OBJECT PROTECTED IS 10" (POINTS PROJECTING 24" MAY BE SPACED @ 25'-0" MAX.
- B. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR AND INSURE THAT ALL BENDS HAVE AT LEAST AN 8 IN. RADIUS AND DO NOT EXCEED 90 DEGREES.
- C. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0". ON CENTER MAXIMUM. VERIFY COMPATIBILITY OF ADHESIVE ON METAL ROOF APPLICATIONS PRIOR TO INSTALLATION.
- D. GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0". BELOW GRADE AND 2'-0". FROM FOUNDATION WALL DRIVEN RODS SHALL PENETRATE EARTH AT EAST 10'-0".
- E. BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS SHOWN AND AS REQUIRED BY CODES. F. INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER
- BUILDING GROUND SYSTEMS AS SHOWN OR AS REQUIRED BY CODE. G. SYSTEM SHALL BE INSTALLED AS SHOWN TO ENSURE PROPER CODE COMPLIANCE AND SYSTEM
- CERTIFICATION. ANY MAJOR VARIANCE SHALL ENTAIL RESUBMITTAL AND NEW APPROVAL. H. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION
- PROCEDURES.
- I. ALL MATERIAL TO BE UNDERWRITER'S LABORATORIES APPROVED WITH LABELS ON CONDUCTORS @ 10'-0" INTERVALS AND LABELS ON ALL AIR TERMINALS.
- J. COMPLETED INSTALLATION AS SHOWN SHALL BEAR U.L. MASTER LABEL.TO BE SECURED BY SYSTEM INSTALLER PER UL96A.
- K. ALL MATERIALS SHOWN AND INTENDED FOR USE ARE TO BE AS MANUFACTURED BY THOMPSON LIGHTNING PROTECTION INC., 901 SIBLEY HWY. ST.PAUL, MN 55118. APPROVED EQUALS ARE INDEPENDENT PROTECTION CO. AND ROBBINS LIGHTNING PROTECTION CO.
- L. INSTALLATION SHALL COMPLY IN ALL RESPECTS TO L.P.I. CODE 175. INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER. COMPLETED INSTALLATION TO RECEIVE SYSTEM CERTIFICATION INCLUDING SUBMITTAL OF FORM L.P.I.-1-R91.

DESIGN DEVELOPMENT PACKAGE

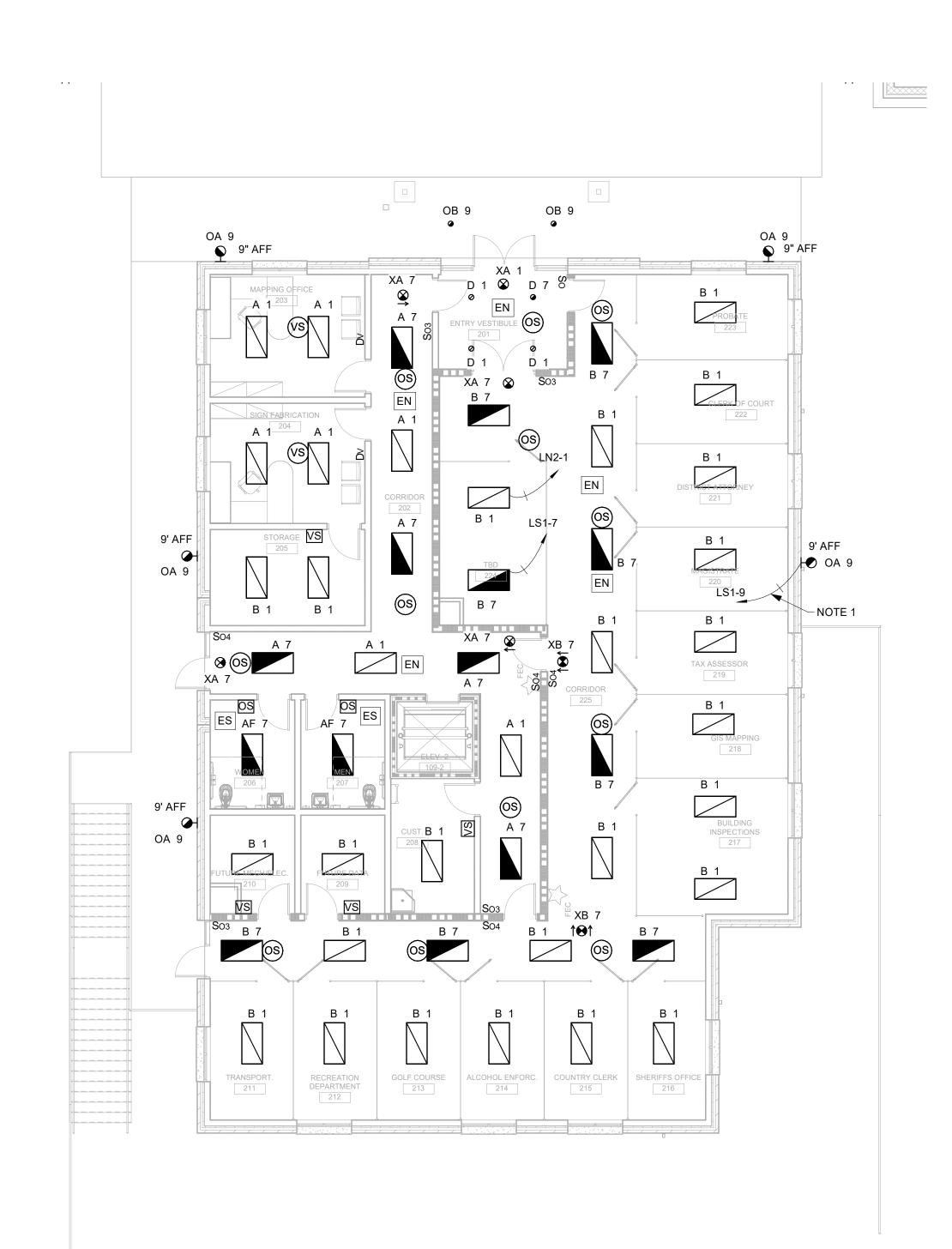
CRITICAL COORDINATION NOTE ROOFER/GC MUST ADVISE ROOFING TYPE TO LIGHTNING PROTECTION SYSTEM INSTALLER FOR PROPER ADHESIVE SELECTION. NO LIGHTNING PROTECTION WORK WITHOUT THIS INFO. INSTALLATION IS BASED UPON ALL ROOF-MOUNTED LIGHTNING PROTECTION EQUIPMENT BEING ADHERED DIRECTLY TO ROOF SURFACE. ANY VARIANCE OR SPECIAL PROVISIONS BY ROOFING CONTRACTOR. DO NOT PENETRATE ROOF, NO EXCEPTIONS.

LEGEND: CLASS II MAIN CONDUCTOR ON ROOF CONNECTION TO GROUND ROD (UNDERGROUND) ____X____ ()LIGHTNING POINT GROUND RODS •----|||I CLASS II MAIN CONDUCTOR BELOW GRADE G









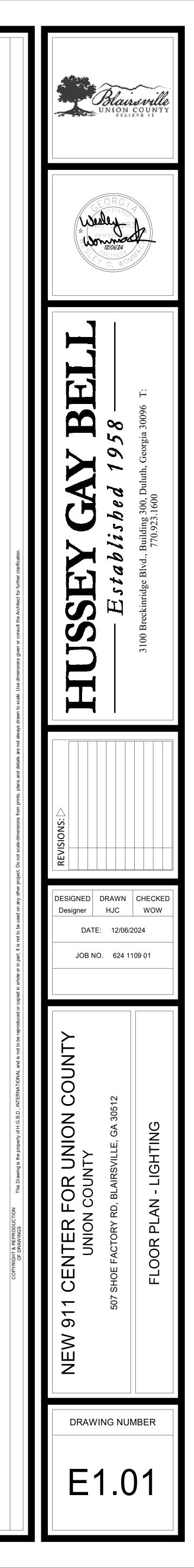
NOTES:

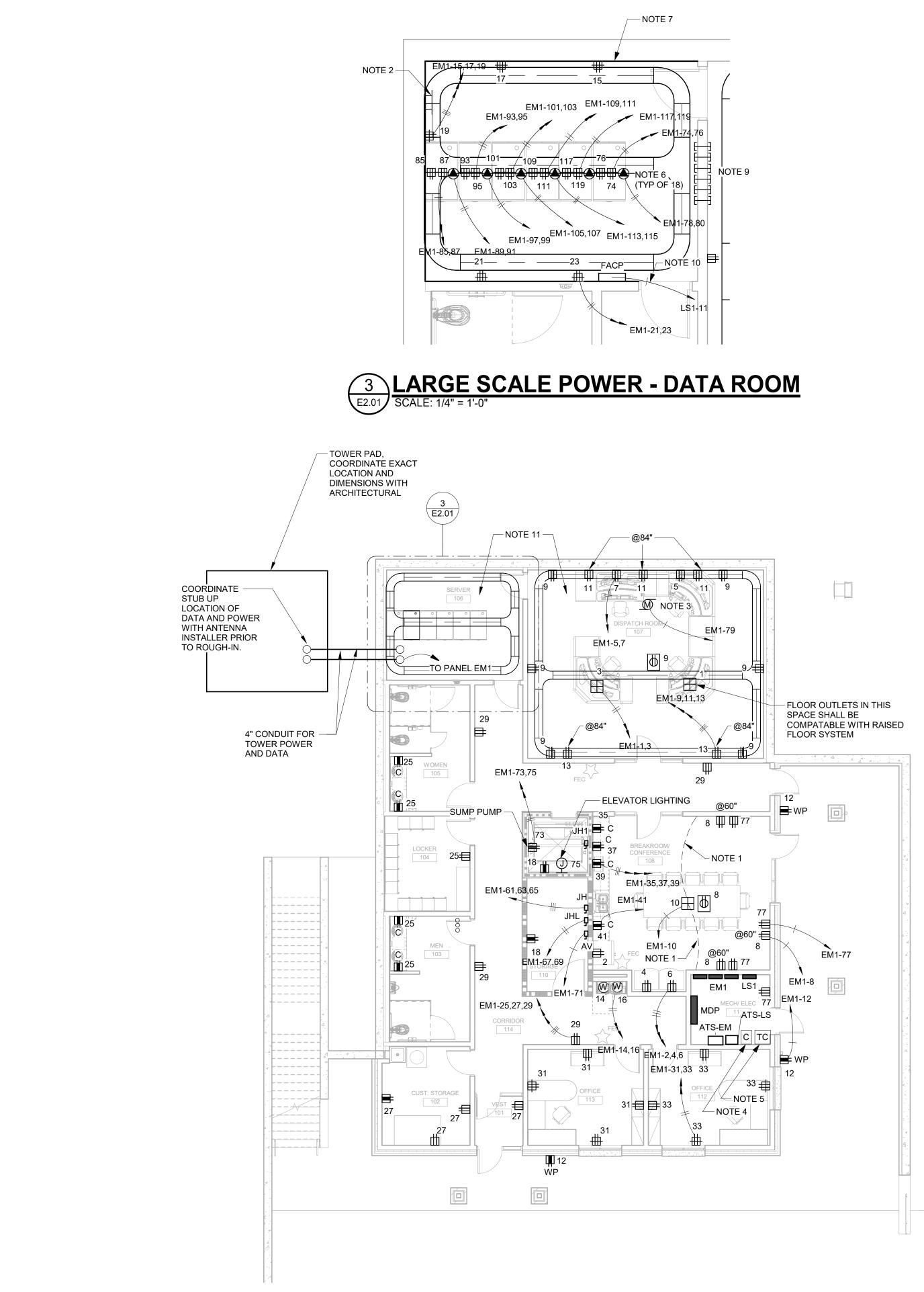
1. PROVIDE #10 ENTIRE CIRCUIT. ROUTE CIRCUIT TO EXTERIOR LIGHTING CONTACTOR. CONTACTOR TO BE CONTROLLED BY PHOTOCELL AND TIMECLOCK. SEE NOTES 1 AND 2 ON E3.01 FOR MORE INFORMATION.

2 E1.01 **LIGHTING PLAN - LEVEL 2** SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. COORDINATE EXACT LOCATIONS AND MOUNTINGS (FLANGE/LAY-IN) WITH ARCHITECTURAL CEILING PLAN AND SCHEDULES PRIOR TO ORDERING AND INSTALLING ANY FIXTURE.
- B. EXIT LIGHT AND NIGHT LIGHT CIRCUITS ARE TO REMAIN UNSWITCHED.
- C. PROVIDE UNSWITCHED PHASE CONDUCTOR TO EACH EMERGENCY FIXTURE FOR BATTERY CHARGING AND POWER LOSS SENSING.
- D. SEE LARGE SCALE PLANS FOR CIRCUITRY WITHIN TYPICAL SPACES.
- E. ALL SPACES ARE TO BE CONTROLLED BY OCCUPANCY OR VACANCY SENSOR UNLESS SPECIFICALLY NOTED OTHERWISE. SEE DETAILS AND NOTES ON SHEET E0.02 FOR ADDITIONAL REQUIREMENTS.

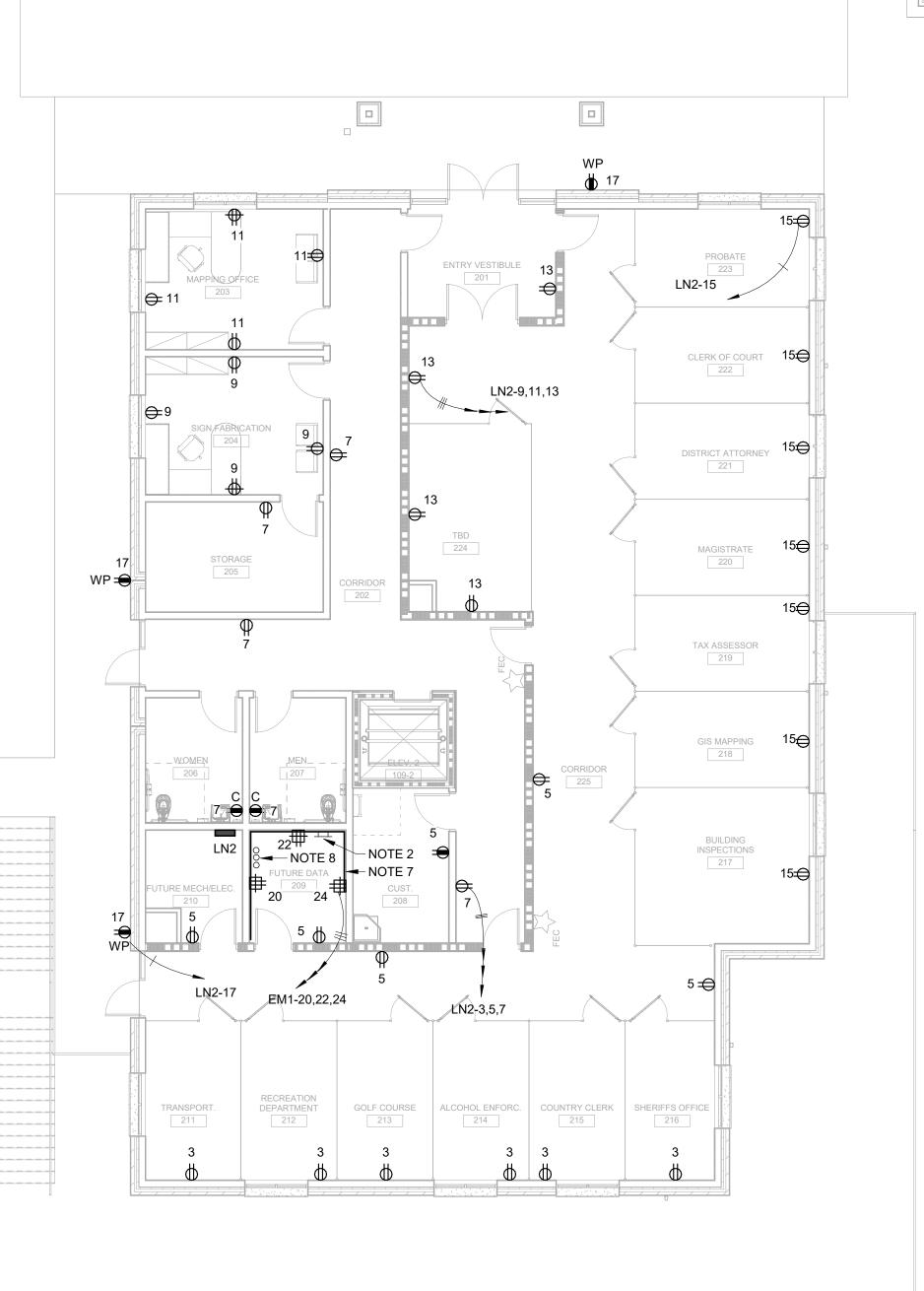






GENERAL NOTES:

- A. THE WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE (N.E.C.).
- B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS OF EQUIPMENT.
- C. ALL NEW WIRING AND CONDUIT IS TO BE RUN CONCEALED IN WALLS, CONCEALED ABOVE CEILING, AND/OR CONCEALED BELOW THE FLOOR. ANY FINISH THAT IS CUT OR DEMOLISHED IS TO BE PATCHED AND/OR PAINTED TO MATCH ADJACENT FINISH.
- LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- E. PROVIDE SUPPORT CHANNEL FRAME FOR MOUNTING DISCONNECTS WHEN WALL MOUNTING IS NOT AVAILABLE. AVOID MOUNTING DIRECTLY ON EQUIPMENT HOUSINGS.
- G. DISTANCE LIMITATIONS FOR ALL 120 VOLT, 20A BRANCH CIRCUITS: a. CIRCUIT LENGTHS EXCEEDING 70 FEET SHALL CONSIST OF NO. 10 AWG CIRCUIT CONDUCTORS. b. CIRCUIT LENGTHS EXCEEDING 115 FEET SHALL CONSIST OF NO. 8 AWG CIRCUIT CONDUCTORS.
- c. CIRCUIT LENGTHS EXCEEDING 180 FEET SHALL CONSIST OF NO. 6 AWG CIRCUIT CONDUCTORS. d. CONDUIT SIZE SHALL BE INCREASED ACCORDINGLY.
- H. MARK ANY UNUSED CIRCUIT BREAKERS AS SPARES. PROVIDE PANELBOARD DIRECTORIES PER PROJECT
- SPECIFICATIONS.



- D. WALL JUNCTION BOXES AND CONDUIT FOR THERMOSTATS AND SENSORS SHALL BE PROVIDED -VERIFY EXACT
- I. ALL RECEPTACLES AND DEVICES SHALL BE INSTALLED FLUSH IN WALL UNLESS NOTED OTHERWISE.

NOTES:

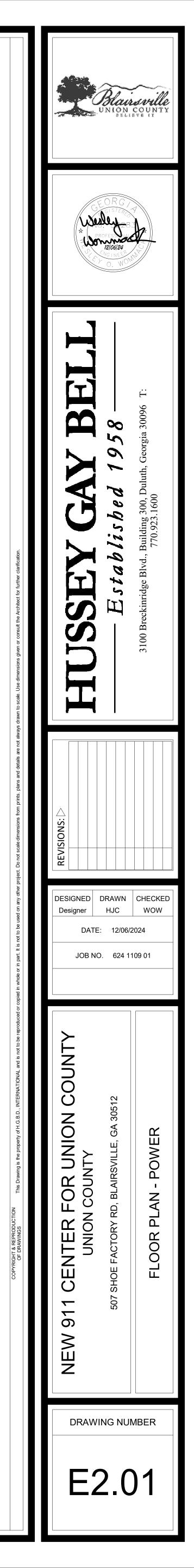
- IN ADDITION TO POWER CIRCUIT SHOWN, EXTEND 1-1/4"C. W/ PULL STRING FROM FLOOR BOX, UP WALL AND INTO ACCESSIBLE CEILING FOR FUTURE NETWORK CABLES. 2. TELECOMMUNICATIONS EQUIPMENT GROUND BUS. SEE DETAIL 9/E0.03.
- 3. MOTOR FOR MOTORIZED PROJECTOR SCREEN, COORDINATE EXACT LOCATION WITH ARCHITECTURAL/OWNER.
- 4. 8 POLE ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE COIL OF CONTACTOR TO BE CONTROLLED BY ADJACENT TIMECLOCK.
- 5. PROVIDE A 4 CIRCUIT DIGITAL ASTRONOMICAL TIMECLOCK WITH BATTERY BACKUP, INTERLOCK TIMECLOCK WITH
- AN EXTERIOR MOUNTED PHOTOCELL FACING NORTH CLEAR OF MAN-MADE LIGHT SOURCES.
- 6. MOUNT OUTLETS IN DATA RACK, CONDUIT SHALL COME UP THROUGH THE RAISED FLOOR.
- 7. PROVIDE PLYWOOD BACKBOARD. SEE 8/E0.03.

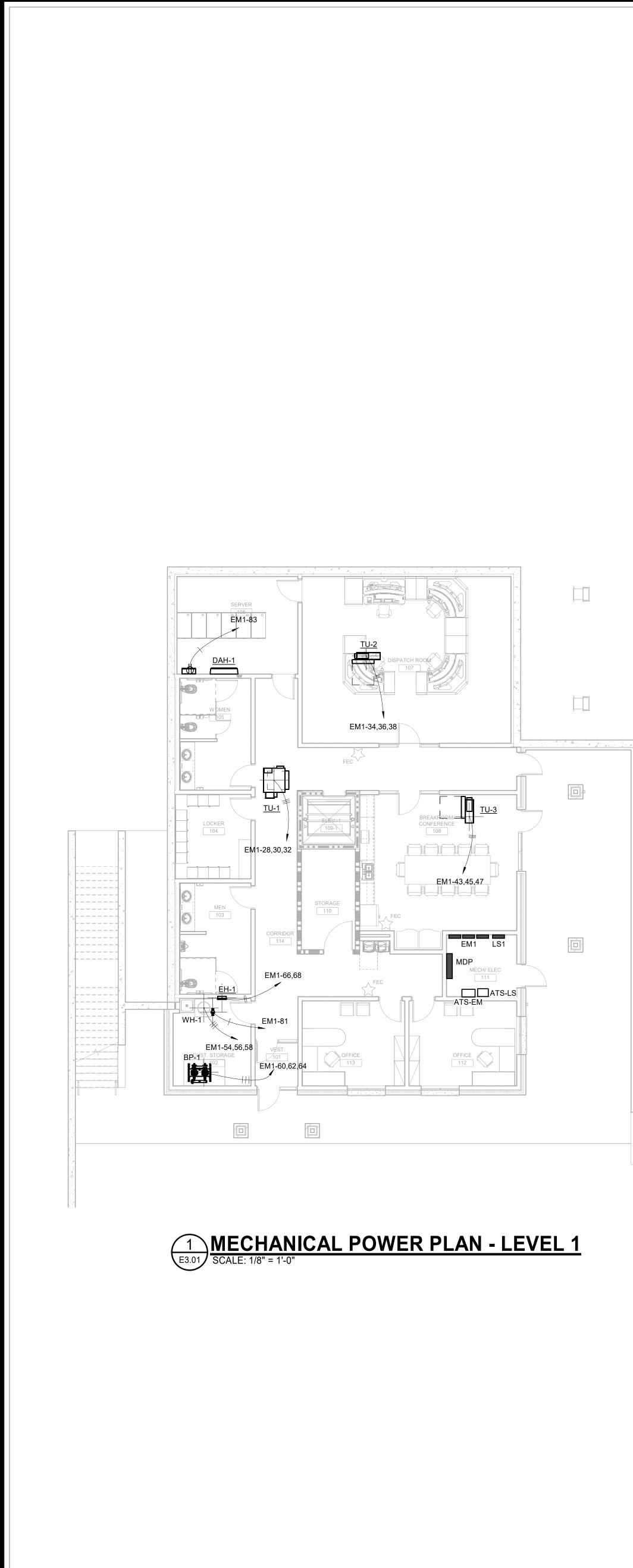
A GRID PATTERN AND PER THE MANUFACTURER'S REQUIREMENTS.

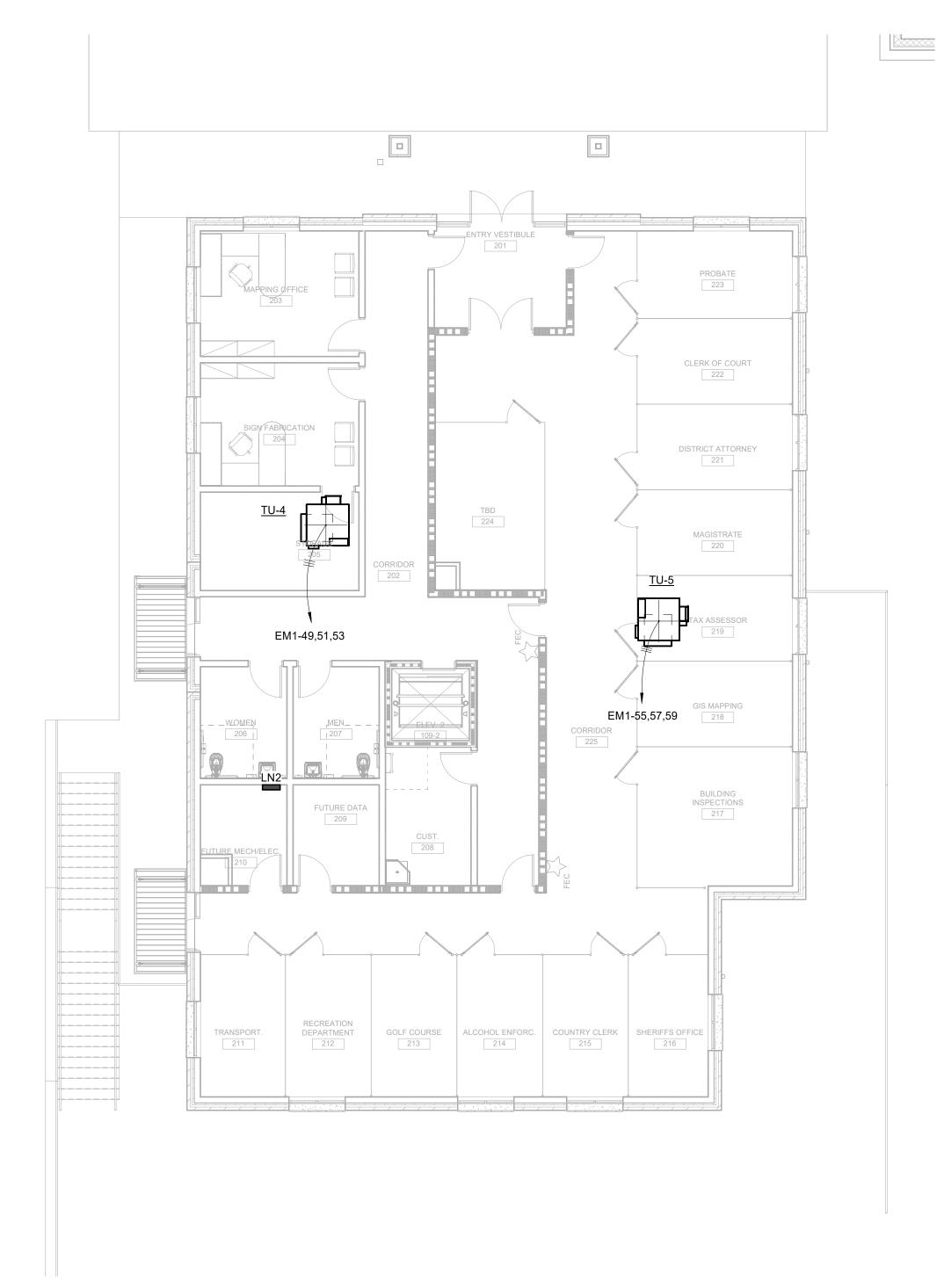
- 8. PROVIDE (3) 4" CONDUIT SLEEVES THROUGH FLOOR TO ABOVE ACCESSIBLE CEILING ON LEVEL 1 FOR LOW VOLTAGE CABLING BETWEEN FLOORS. SEE DETAIL 7/E0.03.
- 9. PROVIDE (6) 4" CONDUIT SLEEVES FOR PASSING CABLES BETWEEN SERVER ROOM AND DISPATCH ROOM. 10. LABEL BREKER WITH RED NAMEPLATE "FIRE ALARM CONTROL PANEL". LABEL FIRE ALARM CONTROL PANEL WITH
- CIRCUIT NUMBER SERVING IT. PROVIDE BREAKER LOCK FOR CIRCUIT BREAKER. 11. SERVER ROOM 106 AND DISPATCH ROOM 107 WILL HAVE COMPUTER ROOM RAISED ACCESS FLOORS. THE METAL COMPONENTS OF THE FLOOR STRUCTURE (PEDESTALS AND STRINGERS) SHALL BE CONNECTED TO THE BUILDING'S GROUNDING ELECTRODE SYSTEM BY BONDING TO THE TELECOMMUNICATIONS EQUIPMENT GROUND BUS IN SERVER ROOM 106 WITH #4 AWG COPPER CONDUCTOR. THE ENTIRE FLOOR SYSTEM SHALL BE BONDED IN

2 E2.01 **POWER PLAN - LEVEL 2** SCALE: 1/8" = 1'-0"

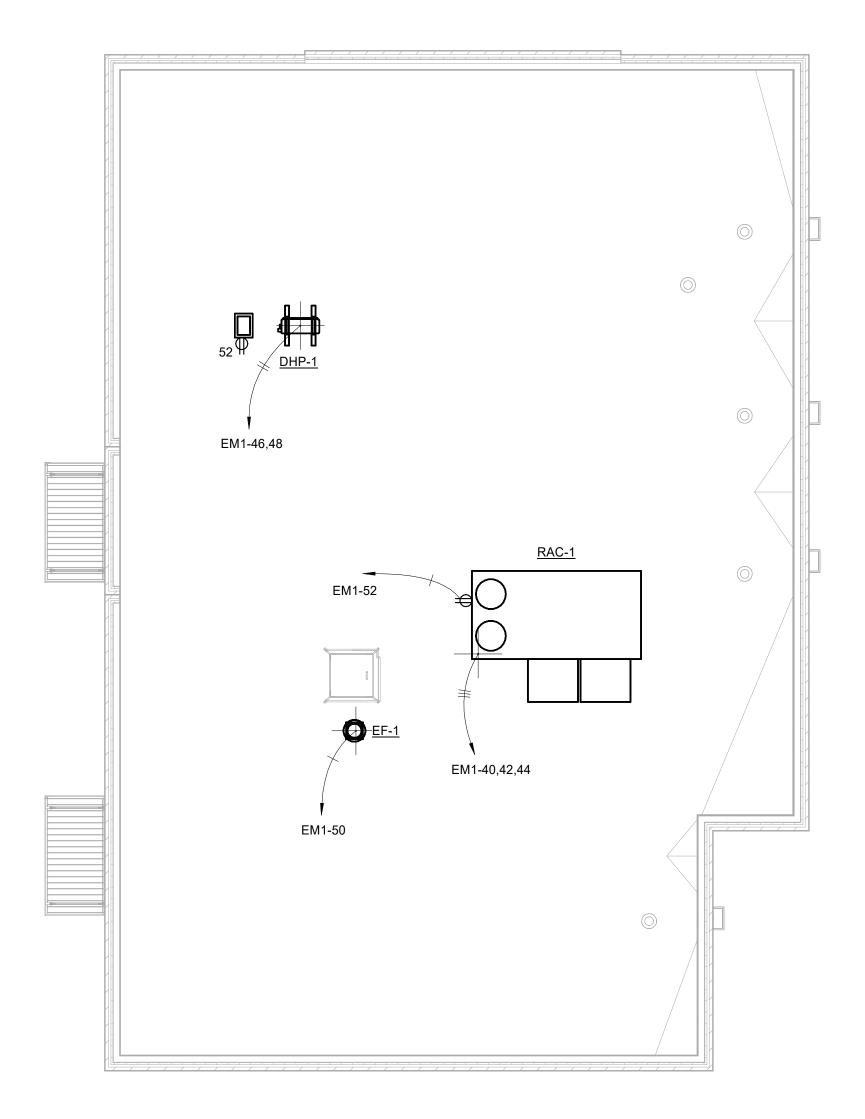
DESIGN DEVELOPMENT PACKAGE



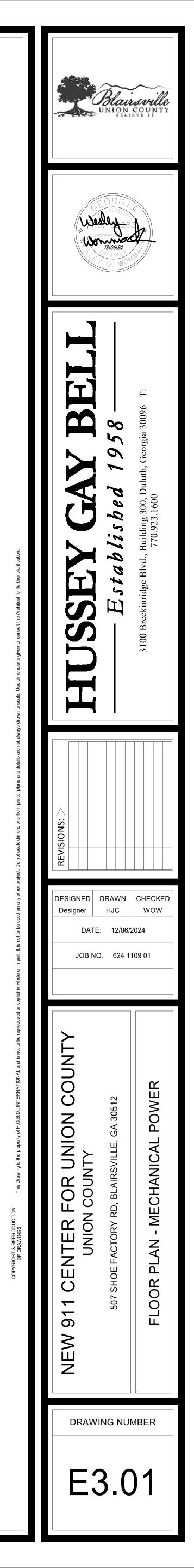


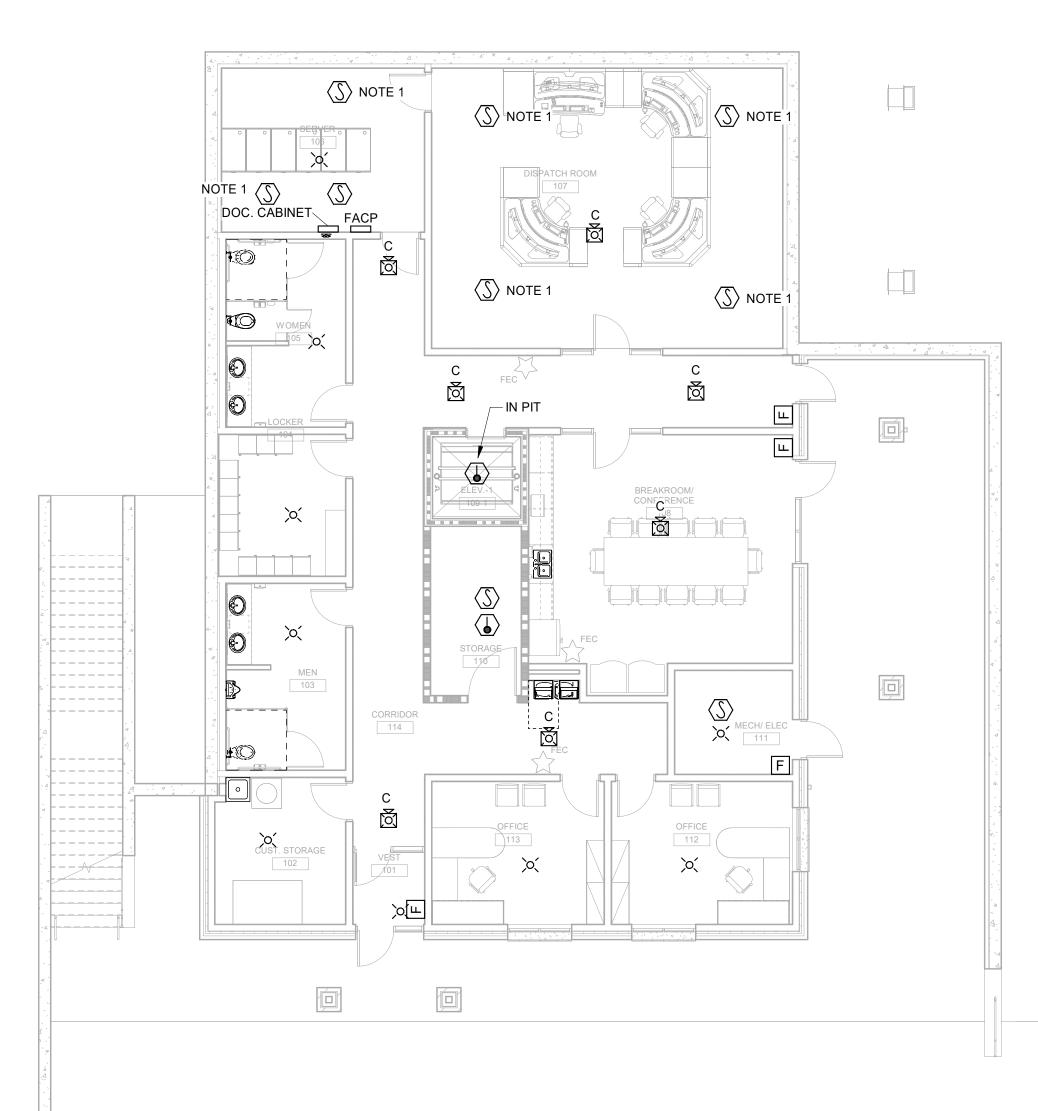


2 E3.01 MECHANICAL POWER PLAN - LEVEL 2 SCALE: 1/8" = 1'-0"

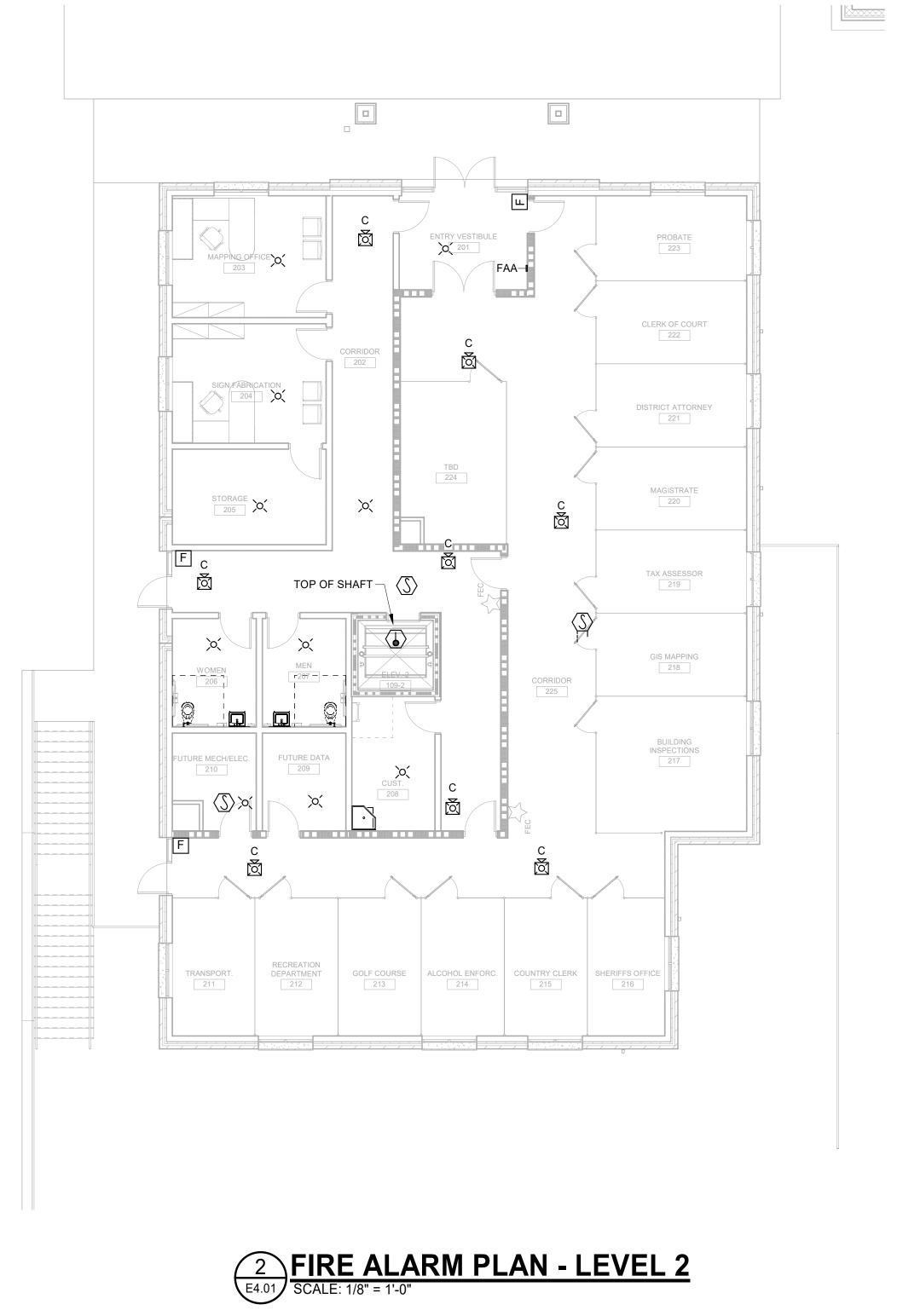


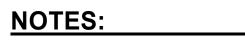
3 E3.01 SCALE: 1/8" = 1'-0"







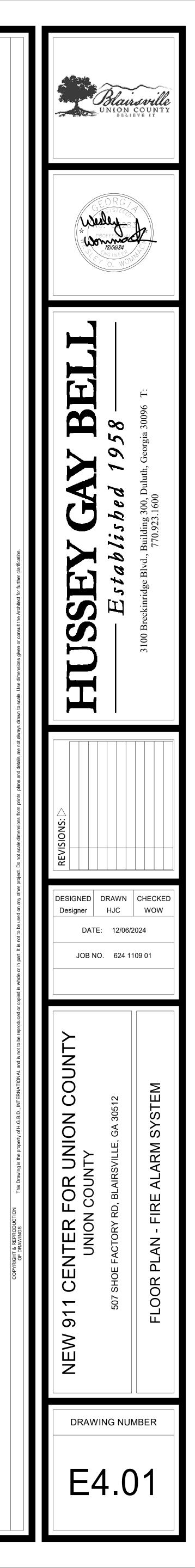


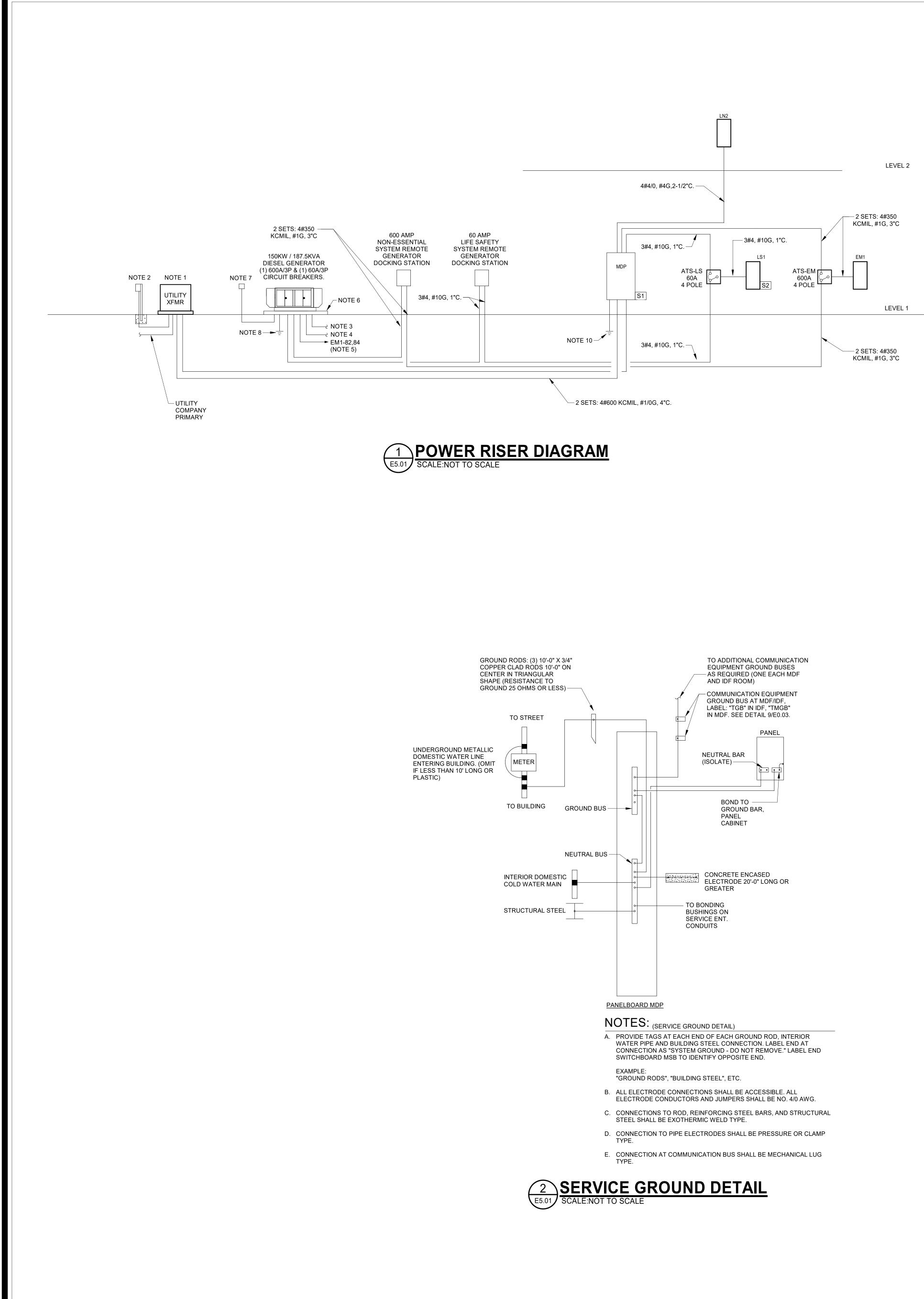


1. PROVIDE SMOKE DETECTOR MOUNTED BELOW RAISED FLOOR.

GENERAL NOTES:

- A. CONSULT ARCHITECTURAL DRAWINGS TO DETERMINE EXACT LOCATION FOR MOUNTING MAGNETIC DOOR HOLDERS.
- B. ALL HVAC EQUIPMENT PROVIDED WITH DUCT DETECTORS SHALL BE INTERFACED WITH FIRE ALARM SYSTEM TO SHUT DOWN DURING AN ALARM CONDITION. MOUNT DETECTOR ACCORDING TO MECHANICAL SPECIFICATIONS. WHERE MOUNTED ABOVE CEILING
- PROVIDE REMOTE LED INDICATOR LIGHTS MOUNTED IN CEILING TILE BELOW UNIT. C. ALL FIRE ALARM CABLING SHALL BE IN CONDUIT.
- D. PROVIDE TO THE STATE FIRE MARSHAL'S OFFICE THE FOLLOWING:
- 1. PLAN VIEW DRAWN TO SCALE. 2. LOW VOLTAGE CONTRACTOR'S NAME, LICENSE NUMBER AND SIGNATURE. 3. EQUIPMENT SUBMITTALS.
- 4. BATTERY CALCULATIONS. 5. WIRING CLASS.
- 6. INITIATING/NOTIFICATION DEVICE INFORMATION.
- E. MOUNT DETECTOR UPSTREAM OF AIR FLOW FROM SMOKE DAMPERS. INTERLOCK SMOKE DAMPERS WITH FIRE ALARM PANEL PROVIDE POWER FOR SMOKE DAMPERS AS REQUIRED FROM NEAREST CORRIDOR RECEPTACLE CIRCUIT OR AS INDICATED ON POWER PLANS.
- F. PROVIDE FIRE ALARM CONNECTION TO EACH SMOKE DAMPER AND COMBINATION FIRE/SMOKE DAMPER. SEE MECHANICAL PLANS FOR LOCATIONS AND QUANTITIES OF SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS. PROVIDE A DUCT SMOKE DETECTOR AT EACH UNIT.

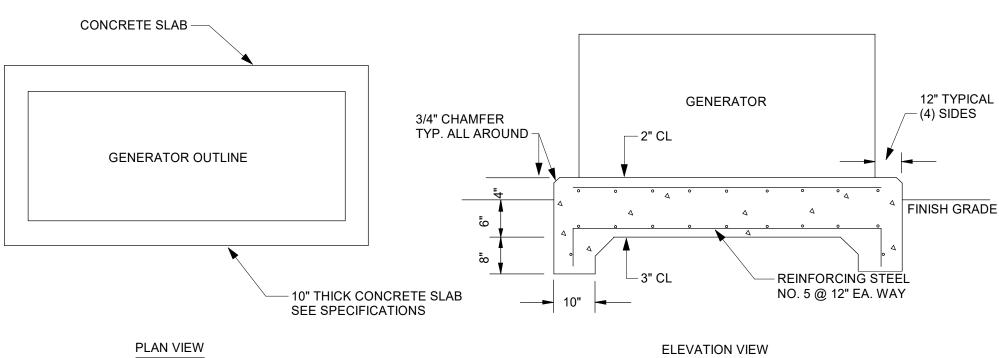




RISER DIAGRAM LEGEND & EQUIPMENT NOTES: 100A/3P BREAKER IN SUPPLYING PANEL. 60A/3P BREAKER IN SUPPLYING PANEL. SURGE PROTECTION NOTES:

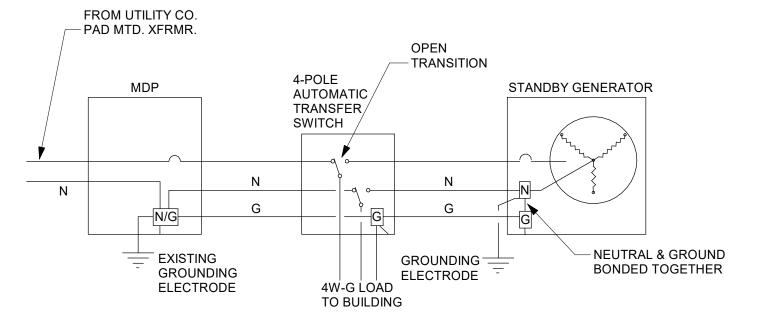
NOTES:

- 1. UTILITY COMPANY PAD MOUNTED TRANSFORMER SEE SITE PLAN FOR UTILITY COMPANY REQUIREMENTS.
- 2. METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR. 3. PROVIDE 1" C. TO EACH AUTOMATIC TRANSFER SWITCH FOR
- REQUIREMENTS.
- PROVIDE WIRING PER MANUFACTURER'S REQUIREMENTS.
- HEATER. 6. SEE GENERATOR PAD DETAIL.
- 7. PAD LOCKABLE STAINLESS STEEL NEMA 4X BOX WITH HINGED NEAR GENERATOR.
- 8. SEE 4-POLE ATS GROUNDING DETAIL, 4/E5.01.
- WHITE 1/2" HIGH ON BLACK BACKGROUND.



PLAN VIEW

4 E5.01 **4-POLE ATS GROUNDING DETAIL** SCALE:N.T.S.



<u>3 GENERATOR PAD DETAIL</u> E5.01 SCALE:NOT TO SCALE

10. SEE SERVICE GROUNDING DETAIL, 2/E5.01.

9. PROVIDE ENGRAVED LABEL "SERVICE 2 OF 2". LETTERS SHALL BE

GASKETED COVER. THIS BOX SHALL HOUSE BUTTON TO SHUT DOWN EMERGENCY GENERATORS. PROVIDE ENGRAVED LABEL "PUSH BUTTON TO SHUT DOWN GENERATORS." LETTERS SHALL BE WHITE 1/4" HIGH ON RED BACKGROUND. MOUNT 48" AFF. MOUNT ON RACK

5. PROVIDE 5#10, 3/4" C. FOR POWER TO BATTERY CHARGER AND BLOCK

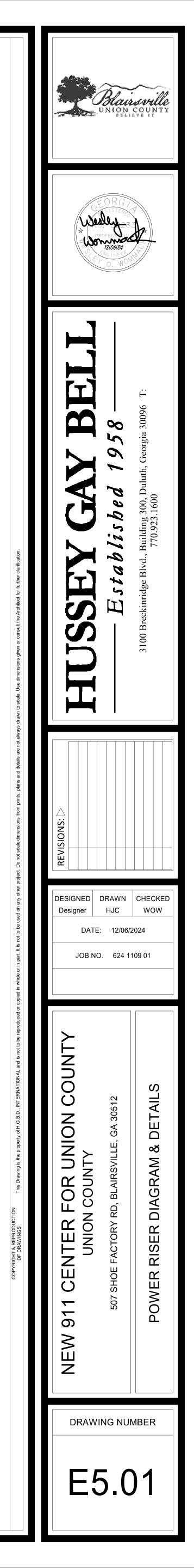
4. PROVIDE 1" C. TO GENERATOR REMOTE ANNUNCIATOR PANEL.

CONTROL WIRES. PROVIDE WIRING PER MANUFACTURER'S

EXACT LOCATION. ELECTRICAL CONTRACTOR TO PROVIDE PAD PER

PROVIDE BREAKERS IN PANELS FOR SPD UNITS WHETHER OR NOT INDICATED ON PANEL SCHEDULE. THERE SHALL BE NO SPLICES IN PANEL, COORDINATE MOUNTING OF TVSS BREAKER PRIOR TO ROUGH IN.

S 1 SURGE PROTECTION DEVICE IN MAIN SERVICE PANEL: PROVIDE 5-#2 CONDUCTORS IN 1- 1 /2" C FROM SURGE PROTECTION DEVICE IN DISTRIBUTION PANELS: PROVIDE 5-#6 CONDUCTORS IN 1" C FROM

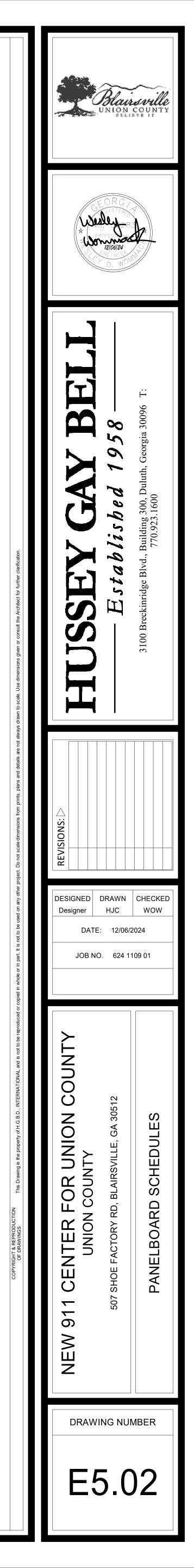


| | | | VOLTAGE: 120/208 WYE PHASE: 3 WIRES: 4 A.I.C. RATING: 22,000 | M | MAIN | Rating: S type: Fed by: | BREA | KER TY CO. XF | MR | LOCATION: MECH/ ELEC MOUNTING: SURFACE RATING: NEMA 1 TOTAL LOAD: 214332 VA | 111 | | |
|-------|------------|---|-----------------------------------------------------------------------|-------|-------|-------------------------------|---------------------|------------------|-------|--------------------------------------------------------------------------------------|-----|------------|----|
| скт 1 | RIP | Ρ | CIRCUIT DESCRIPTION | A | A B C | | CIRCUIT DESCRIPTION | P | TRIP | СКТ | | | |
| 1 | | | | 3135 | 0 | | | | | | | | 2 |
| 3 6 | 50 A | 3 | ATS-LS | | | 1585 | 0 | | | SPARE | 3 | 100 A | 4 |
| 5 | | | | | | | | 1872 | 0 | _ | | | 6 |
| 7 | | | | 64560 | 0 | | | | | | | 100 | 8 |
| 9 | 600 A | 3 | ATS-EM | | | 66566 | 0 | | | SPARE | 3 | 100 A | 10 |
| 11 | | | | | | | | 67378 | 0 | | | | 12 |
| 13 | 005 | | | 3365 | 0 | | | | | | | | 14 |
| 15 | 225 A | 3 | PANEL LN2 | | | 3240 | 0 | | | SPARE | 3 | 60 A | 16 |
| 17 | | | | | | | | 2700 | 0 | | | | 18 |
| 19 | | 1 | SPACE | | | | | | | SPACE | 1 | | 20 |
| 21 | | 1 | SPACE | | | | | | | SPACE | 1 | | 22 |
| 23 | | 1 | SPACE | | | | | | | SPACE | 1 | | 24 |
| 25 | | 1 | SPACE | | | | | | | SPACE | 1 | | 26 |
| 27 | | 1 | SPACE | | | | | | | SPACE | 1 | | 28 |
| 29 | | 1 | SPACE | | | | | | | SPACE | 1 | | 30 |
| 31 | | 1 | SPACE | | | | | | | SPACE | 1 | | 32 |
| 33 | | 1 | SPACE | | | | | | | SPACE | 1 | | 34 |
| 35 | | 1 | SPACE | | | | | | | SPACE | 1 | | 36 |
| 37 | | 1 | SPACE | | 0 | | | | | | | 100 | 38 |
| 39 | | 1 | SPACE | | | | 0 | | | SURGE PROTECTION DEVICE | 3 | A | 40 |
| 41 | | 1 | SPACE | | | | | | 0 | | | | 42 |
| | | | | 70994 | | 7139 | | 7195 | - | | | | |
| | | | | 592 | A | 595 | iΑ | 600 |) A (| | | | |

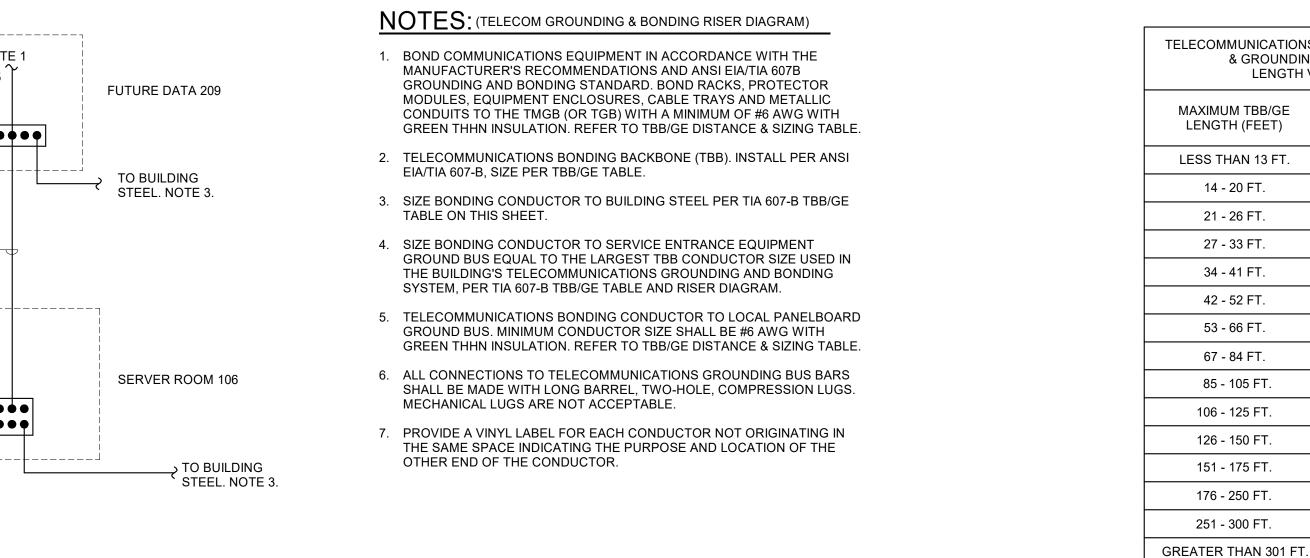
| | | | PANEL: LN2 VOLTAGE: 120/208 WYE PHASE: 3 WIRES: 4 A.I.C. RATING: 10,000 | Μ | MAIN | RATING: S TYPE: FED BY: | MLO | | | LOCATION: FUTURE ME MOUNTING: SURFACE RATING: NEMA 1 TOTAL LOAD: 9305 VA | CH/EL | .EC. 21 | 10 |
|-----|------|---|-------------------------------------------------------------------------------------|------|------|-------------------------------|------|------|------|-----------------------------------------------------------------------------------|-------|---------|-----|
| скт | TRIP | Ρ | CIRCUIT DESCRIPTION | A | • | E | 3 | (| ; | CIRCUIT DESCRIPTION | P | TRIP | СКТ |
| 1 | 20 A | 1 | LIGHTING | 1565 | 0 | | | | | SPARE | 1 | 20 A | 2 |
| 3 | 20 A | 1 | RECEPTACLES | | | 1080 | 0 | | | SPARE | 1 | 20 A | 4 |
| 5 | 20 A | 1 | RECEPTACLES | | | | | 1080 | 0 | SPARE | 1 | 20 A | 6 |
| 7 | 20 A | 1 | RECEPTACLES | 1080 | 0 | | | | | SPARE | 1 | 20 A | 8 |
| 9 | 20 A | 1 | RECEPTACLES | | | 900 | 0 | | | SPARE | 1 | 20 A | 10 |
| 11 | 20 A | 1 | RECEPTACLES | | | | | 1080 | 0 | SPARE | 1 | 20 A | 12 |
| 13 | 20 A | 1 | RECEPTACLES | 720 | 0 | | | | | SPARE | 1 | 20 A | 14 |
| 15 | 20 A | 1 | RECEPTACLES | | | 1260 | 0 | | | SPARE | 1 | 20 A | 16 |
| 17 | 20 A | 1 | RECEPTACLES | | | | | 540 | 0 | SPARE | 1 | 20 A | 18 |
| 19 | | 1 | SPACE | | | | | | | SPACE | 1 | | 20 |
| 21 | | 1 | SPACE | | | | | | | SPACE | 1 | | 22 |
| 23 | | 1 | SPACE | | | | | | | SPACE | 1 | | 24 |
| 25 | | 1 | SPACE | | | | | | | SPACE | 1 | | 26 |
| 27 | | 1 | SPACE | | | | | | | SPACE | 1 | | 28 |
| 29 | | 1 | SPACE | | | | | | | SPACE | 1 | | 30 |
| 31 | | 1 | SPACE | | | | | | | SPACE | 1 | | 32 |
| 33 | | 1 | SPACE | | | | | | | SPACE | 1 | | 34 |
| 35 | | 1 | SPACE | | | | | | | SPACE | 1 | | 36 |
| 37 | | 1 | SPACE | | | | | | | SPACE | 1 | | 38 |
| 39 | | 1 | SPACE | | | | | | | SPACE | 1 | | 40 |
| 41 | | 1 | SPACE | | | | | | | SPACE | 1 | | 42 |
| - | | | | 3365 | 5 VA | 3240 |) VA | 2700 |) VA | | | | |
| | | | | 29 | Α | 28 | A | 23 | Α | | | | |

| | | | PANEL: LS1 | | | | | | | | | | |
|-----|------|---|-----------------------------------------------------------------------|------|-------|-------------------------------|------|------|------|------------------------------------------------------------------------------------|-----|------|----|
| | | | VOLTAGE: 120/208 WYE PHASE: 3 WIRES: 4 A.I.C. RATING: 10,000 | N | MAINS | Rating: 5 Type: Fed by: | MLO | | | LOCATION: MECH/ ELEC MOUNTING: SURFACE RATING: NEMA 1 TOTAL LOAD: 6556 VA | 111 | | |
| скт | TRIP | Ρ | CIRCUIT DESCRIPTION | | 4 | E | 3 | (| C | CIRCUIT DESCRIPTION | Ρ | TRIP | СК |
| 1 | 20 A | 1 | LIGHTING | 985 | | | | | | SPACE | 1 | | 2 |
| 3 | 20 A | 1 | LIGHTING | | | 1240 | | | | SPACE | 1 | | 4 |
| 5 | 20 A | 1 | LIGHTING | | | | | 372 | | SPACE | 1 | | 6 |
| 7 | 20 A | 1 | LIGHTING | 731 | | | | | | SPACE | 1 | | 8 |
| 9 | 20 A | 1 | LIGHTING | | | 345 | | | | SPACE | 1 | | 10 |
| 11 | 20 A | 1 | FACP (RED AND LOCKABLE BKR) | | | | | 1500 | | SPACE | 1 | | 12 |
| 13 | 20 A | 1 | SITE LIGHTING | 1500 | | | | | | SPACE | 1 | | 14 |
| 15 | 20 A | 1 | SPARE | | | 0 | | | | SPACE | 1 | | 16 |
| 17 | 20 A | 1 | SPARE | | | | | 0 | | SPACE | 1 | | 18 |
| 19 | 20 A | 1 | SPARE | 0 | | | | | | SPACE | 1 | | 20 |
| 21 | 20 A | 1 | SPARE | | | 0 | | | | SPACE | 1 | | 22 |
| 23 | 20 A | 1 | SPARE | | | | | 0 | | SPACE | 1 | | 24 |
| 25 | 20 A | 1 | SPARE | 0 | 0 | | | | | | | | 26 |
| 27 | 20 A | 1 | SPARE | | | 0 | 0 | | | SURGE PROTECTION DEVICE | 3 | 60 A | 28 |
| 29 | 20 A | 1 | SPARE | | | | | 0 | 0 | | | | 30 |
| | | | | 313 | 5 VA | 158 | 5 VA | 187 | 2 VA | | | | |
| | | | | 26 | Ā | 13 | A | 16 | δA | | | | |

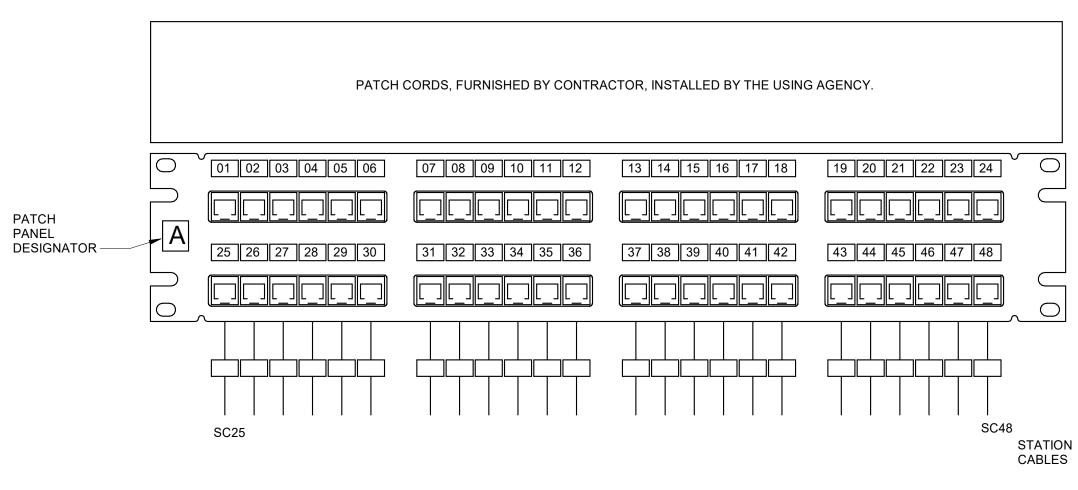
| | | | VOLTAGE: 120/208 WYE PHASE: 3 WIRES: 4 A.I.C. RATING: 10,000 | | MAINS | ATING: TYPE: ED BY: | MLO | | | LOCATION: MECH/ ELEC MOUNTING: SURFACE RATING: NEMA 1 TOTAL LOAD: 198503 VA | | | |
|------------|--------------|--------|-----------------------------------------------------------------------|-------|-------|---------------------------|-------|-------|-------|--------------------------------------------------------------------------------------|---|--------------|----------|
| | TRIP | Ρ | CIRCUIT DESCRIPTION | | 4 | E | 3 | (| | CIRCUIT DESCRIPTION | Ρ | TRIP | |
| | 20 A | 1 | RECEPTACLES | 180 | 180 | 400 | 400 | | | | 1 | 20 A | |
| | 20 A 20 A | 1 | RECEPTACLES RECEPTACLES | | | 180 | 180 | 180 | 180 | VENDING VENDING | 1 | 20 A 20 A | |
| | 20 A | 1 | RECEPTACLES | 180 | 720 | | | 100 | 100 | RECEPTACLES | 1 | 20 A | - |
| | 20 A | 1 | RECEPTACLES | 100 | . 20 | 1260 | 180 | | | RECEPTACLES | 1 | 20 A | |
| 11 | 20 A | 1 | RECEPTACLES | | | | | 540 | 540 | RECEPTACLES | 1 | 20 A | 12 |
| | 20 A | 1 | RECEPTACLES | 360 | 180 | | | | | EWC (GFCI BKR) | 1 | 20 A | |
| | 20 A | 1 | RECEPTACLES | | | 360 | 180 | | | EWC (GFCI BKR) | 1 | 20 A | |
| | 20 A | 1 | RECEPTACLES | 200 | 200 | | | 360 | 360 | RECEPTACLES | 1 | 20 A | - |
| | 20 A 20 A | 1 | RECEPTACLES RECEPTACLES | 360 | 360 | 360 | 360 | | | RECEPTACLES RECEPTACLES | 1 | 20 A 20 A | |
| | 20 A | 1 | RECEPTACLES | | | 000 | 000 | 360 | 360 | RECEPTACLES | 1 | 20 A | - |
| | 20 A | 1 | RECEPTACLES | 900 | 0 | | | | | SPARE | 1 | 20 A | |
| 27 | 20 A | 1 | RECEPTACLES | | | 720 | 4083 | | | | | | 28 |
| | 20 A | 1 | RECEPTACLES | | | | | 720 | 4083 | TU-1 | 3 | 35 A | |
| | 20 A | 1 | RECEPTACLES | 1080 | 4083 | | | | | | _ | | 32 |
| | 20 A | 1 | RECEPTACLES | | | 1080 | 1453 | 400 | 4450 | | | 00.4 | 34 |
| | 20 A 20 A | 1 | RECEPTACLES RECEPTACLES | 180 | 1453 | | | 180 | 1453 | TU-2 | 3 | 20 A | 36 38 |
| | 20 A | | MICROWAVE (GFCI BKR) | 100 | 1455 | 180 | 16572 | | | | | | 40 |
| | 20 A | 1 | RECEPTACLES | | | 100 | 10012 | 180 | 16572 | RAC-1 | 3 | 175 | 42 |
| 43 | | | | 1453 | 16572 | | | | | | | A | 44 |
| 45 | 20 A | 3 | TU-3 | | | 1453 | 3432 | | | DHP/DAH-1 | 2 | 35 A | 46 |
| 47 | | | | | | | | 1453 | 3432 | | | | 48 |
| 49 | | _ | | 5344 | 264 | | | | | EF-1 | 1 | 20 A | |
| | 50 A | 3 | TU-4 | | | 5344 | 360 | 5244 | 2465 | SERVICE RECPETACLES | 1 | 20 A | - |
| 53 55 | | | | 5956 | 3465 | | | 5344 | 3465 | WH-1 | 3 | 40 A | 54 56 |
| | 50 A | 3 | TU-5 | 3930 | 5405 | 5956 | 3465 | | | | | 40 A | 58 |
| 59 | 0071 | Ũ | | | | | 0100 | 5956 | 2005 | | | | 60 |
| 61 | 405 | | | 11085 | 2005 | | | | | BP-1 | 3 | 30 A | 62 |
| 63 | 125 A | 3 | ELEVATOR - JH/JH1 SHUNT TRIP BREAKER | | | 11085 | 2005 | | | | | | 64 |
| 65 | | | | | | | | 11085 | 2402 | EH-1 | 2 | 30 A | 66 |
| 67 69 | 20 A | 2 | ELEVATOR JHL | 1560 | 2402 | 4500 | 400 | | | | - | | 68 |
| | 20 A | 1 | AV | | | 1560 | 180 | 1800 | 180 | RECEPTACLES RECEPTACLES | 1 | 20 A 20 A | |
| | 20 A | 1 | SUMP PUMP | 1500 | 360 | | | 1000 | 100 | RECEPTACLES | 1 | 20 A | - |
| | 20 A | 1 | ELEVATOR LIGHTS | | | 180 | 360 | | | RECEPTACLES | 1 | 20 A | |
| 77 | 20 A | 1 | RECEPTACLES | | | | | 720 | 90 | RECEPTACLES | 2 | 20 A | 78 |
| 79 | 20 A | 1 | MOTORIZED PROJECTOR | 500 | 90 | | | | | RECEPTACLES | 2 | | 80 |
| | 20 A | 1 | HWCP-1 | | | 480 | 1500 | | | GENERATOR BATTERY | 1 | 20 A | |
| | 20 A | 1 | EMCS | 0.00 | 0.47 | | | 180 | 1500 | GENERATOR BLOCK HEATER | 1 | 20 A | |
| | 20 A 20 A | 1 1 | RECEPTACLES RECEPTACLES | 360 | 347 | 360 | 347 | | | SLIDING GATE | 3 | 20 A | 86 88 |
| 89 | | - | | | | 500 | 547 | 90 | 347 | | | 20 7 | 90 |
| 91 | 20 A | 2 | RECEPTACLES | 90 | | | | | | | - | | 92 |
| 93 | 20 A | 1 | RECEPTACLES | | | 360 | | | | | | | 94 |
| | 20 A | 1 | RECEPTACLES | | | | | 360 | | | | | 96 |
| 97 | 20 A | 2 | RECEPTACLES | 90 | | _ | | | | | | | 98 |
| 99 | | | | | | 90 | | 000 | | | - | | 100 |
| 101 103 | 20 A | 1 1 | RECEPTACLES RECEPTACLES | 360 | | | | 360 | | | | | 102 |
| 105 | | - | | 300 | | 90 | | | | | | | 104 |
| 107 | 20 A | 2 | RECEPTACLES | | | | | 90 | | | + | | 100 |
| | 20 A | 1 | RECEPTACLES | 360 | | | | | | | | | 110 |
| 111 | 20 A | 1 | RECEPTACLES | | | 360 | | | | | | | 112 |
| 113 | 20 A | 2 | RECEPTACLES | | | | | 90 | | | | | 114 |
| 115 | | | | 90 | | 0.00 | | | | | | | 116 |
| | 20 A | 1 | RECEPTACLES | | | 360 | | 260 | | | | | 118 |
| 119 121 | 20 A | 1 | RECEPTACLES | 90 | | | | 360 | | | | | 120 |
| 121 | 20 A | 2 | RECEPTACLES | 90 | | 90 | | | | | | | 124 |
| 125 | | | <u> </u> | | | 50 | | | | | + | - | 126 |
| | | | | 6456 | 0 VA | 6656 | 6 VA | 6737 | 8 VA | | | 1 | 1.20 |
| | | | | | | - | | | | | | | |

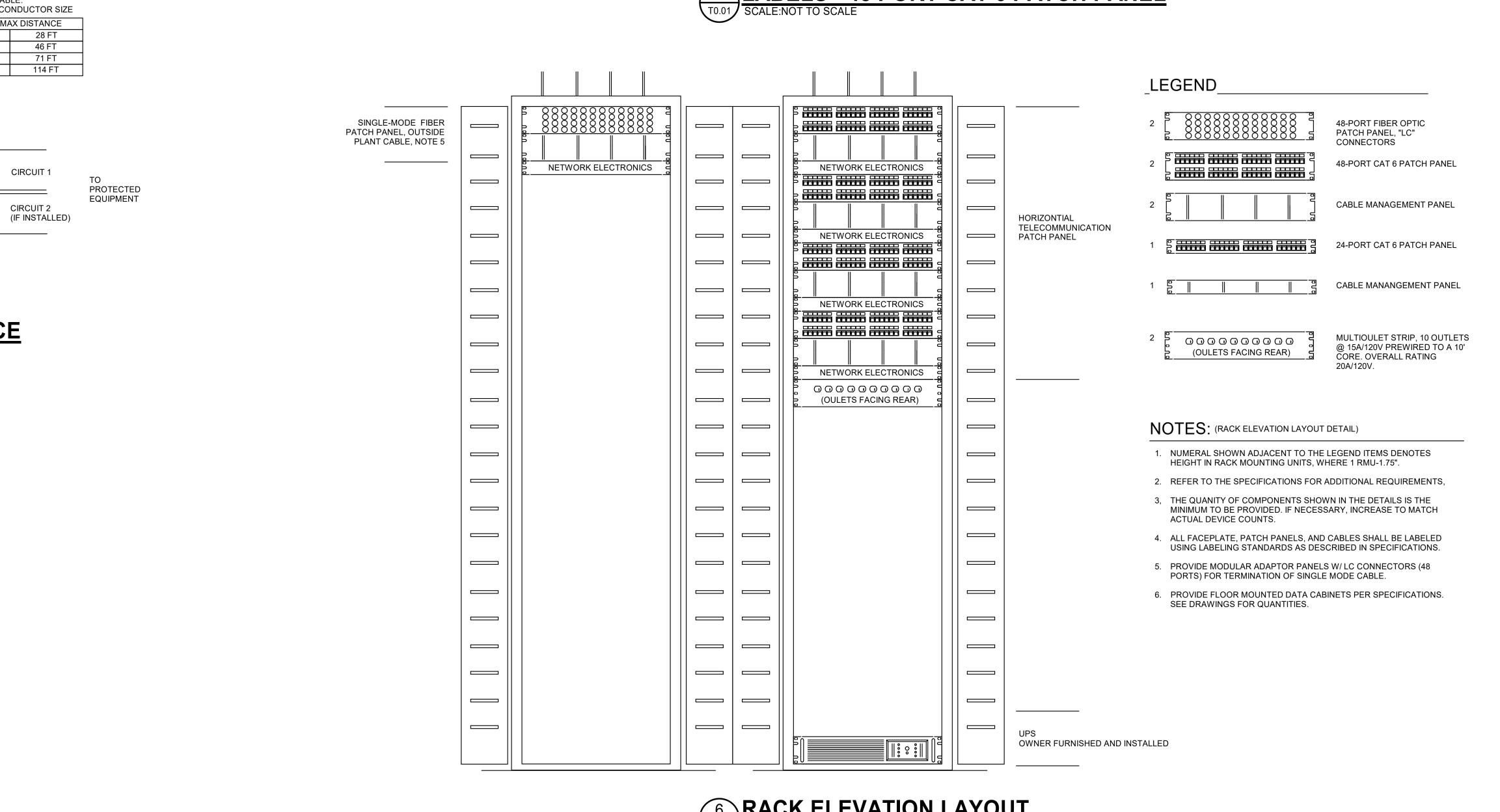


| | | | =R TAGS [.] | — |
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| | | NUMERAL A IDENTIFIER | DJACENT TO DEVICE DENOTES BRANCH CIRCUIT CONNECTION. AGS ADJACENT TO DEVICES INDICATE: | |
| | <text></text> | | ABOVE WORK SURFACE TO CENTER | TGB●● |
| V MOUNT DEVICE IN VALUE TO APPEND AND RECOMPTING OT MOUNT DEVICE IN VALUE TO APPEND AND RECOMPTING CONSTRUCT TO AND | <text></text> | WP | PROVIDE WEATHER-PROOF COVER | |
| | <text></text> | TV | MOUNT DEVICE AT 84" AFF, ADJACENT TO TV RECEPTACLE | NOTE 2 |
| ELECOMMUNICATIONS □ Interpretation of the same relight to concrete sources of the top of the same relight to the same relight to the top of the same relight to the same relighton to the same relight to the same relighton to the sa | <complex-block></complex-block> | 0011 | CEILING, WHICHEVER IS LOWER. MOUNT DEVICE IN CEILING TILE, WHERE CAMERA IS SHOWN IN CEILING | |
| WILE NOT THE LECONMENDED FOR OUTLET & DESIGNATES NUMBER OF MILLION WILE NOT ALL SUMMERS & DESIGNATES NUMBER OF MILLIONE MARKENS OF FIERE COUNDUTS ENVENTION ACCOUNT COMMENS AND SECTION TYPE ACCOUNT OF MILLIONE MARKENS NOT COMMENS MARKENS NOT DESCRIPTION ACCOUNT OF MULLIONE MARKENS NOT DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION MARKENS NOT DESCRIPTION DESCRIPTI | <form></form> | | | _ OWER |
| CACK VARIE OF PIERA CONDUCT SUBJECT TA ADACK WITH VERTICAL WIRE CONDUCT SUBJECT TO SUBJECT A SUBJECT AVERAGE CONDUCT SUBJECT TO SUBJECT AVERAGE CONDUCT SUBJECT TO SUBJECT AVERAGE CONDUCT SUBJECT TO SUBJECT AVERAGE CONTROL OF PIERA CONSUMERATION JUNCTION SUBJECT CONSUMERATION | <complex-block> Image: Additional processing of the set of t</complex-block> | | TELECOMMUNICATIONS OUTLET: x DESIGNATES NUMBE RJ-45 JACKS FOR DATA, y DESIGNATES NUMBER OF RJ-4 | R OF |
| CONDUCT SLEEVE NUMBER & SIZE 24' TYP, UND COMMONS AND SLEEVE NUMBER & SIZE 24' TYP, UND COMMONS AND STREEME SUBJECT & SUBJECT | <text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text> | ٥ | JACK PAIRS OF FIBER 3'-6"L x 2'-0"W x 7'-0"H EIA/TIA RACK WITH VERTICAL WIRE | |
| PLYWOOD, SHIGH, LENOTH AS INDICATED CELING MTD. TELECOMMUNICATION JUNCTION BOX CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELING MTD. TELECOMMUNICATION JUNCTION BOX AND SECURITY A CAMERA SYSTEM CELOSED ORGUIT TO CAMERA (FXED) WALL MOUNTED PROVIDE (1) CAT 6 DROVER A COLLOCATION. ACCESS CONTROL SYSTEM CIOSED ORGUT TO CAMERA (FXED) WALL MOUNTED. PROVIDE (1) CAT 6 DROVER POYER DROONNEDT LOW WYE THAG CARENG FROTECTION DEVICE OCATIONS SECURITY A CAMERA SYSTEM SECURITY A CAMERA SYSTEM SECURITY A CAMERA SYSTEM SECURITY A CAMERA SYSTEM MTH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. SECURITY A CAMERA SYSTEM COORDINATE MUNITING HEIGHTS DRIVCE LOCATIONS A POWER DOOTIFICL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. SECURITY AND AND BODY SECURITY A DIVICE INCLUE LOCATIONS A POWER DOOTIFICL REQUIREMENTS MITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. SECURITY AND AND AND SYSTEM INSTALLER. COORDINATE MUNITING HEIGHTS DRIVCE INCLUDATIONS FOR TYPE. CONTINUE AND AND AND SYSTEM INSTALLER. SECURITY AND AND AND AND SYSTEM INSTALLER. SECURITY AND | <text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text> | | CONDUIT SLEEVE: NUMBER & SIZE, 2-4" TYP., UNO | SERVICE GROUNDING |
| CONDUCTION OF THE FOOD MUNICATION JUNCTION BOX AND CONDUCT ROUGH-IN TO NEAREST ACCESSIBLE CELLING SECURITY & CAMERA SYSTEMS COORDINATE MOLINITING HEIGHTS, DEVICE LOCATIONS, & POWERCONTROL COORDINATE MOLINITING HEIGHTS, DEVICE LOCATIONS, & POWERCONTROL REQUIREMENTS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WOLTAGE CABLING SIGUE FOR POWER POWERCONTROL REQUIREMENTS WITH ARCHITES, DEVICE LOCATIONS & POWERCONTROL REQUIREMENTS WITH ARCHITES, DEVICE LOCATION DEVICE FOR FACH SERVERS SYSTEM OF SERVERS SYSTEM OF SERVERS PROTECTION DEVICE FOR FACH CONDUCTOR SULL REVIEWS OF SERVERS PROTECTION DEVICE FOR FACH OF SERVERS PROT | <image/> | | PLYWOOD, 8' HIGH, LENGTH AS INDICATED | DETAIL. |
| SECURITY & CAMERA SYSTEMS COORDINATE MOUNTING HERGINTS, DEVICE LOCATIONE, & POWERPCONTROL COORDINATE MOUNTING HERGINTS, DEVICE LOCATIONE, & POWERPCONTROL COORDINATE MOUNTING HERGINTS, DEVICE DORD AT EACH LOCATION. COORDINATE MOUNTING HERGINTS, DEVICE DORD AT EACH LOCATION. COORDINATE MOUNTING HERGINTS, DEVICE LOCATIONS, & POWERPCONTROL COESE CONTROL SYSTEMS COESE CONTROL SPORP OWER POWER DISCONNECT LOW COESE CONTROL SYSTEMS COESE CONTROL SPORP OWER POWER DISCONNECT LOW COESE CONTROL SPORP OWER ROWS AND CONDUIT REQUIREMENTS: COESE CONTROL SPORP OWER ROWS AND CONDUIT REQUIREMENTS: COESE CONTROL SPORP OWER ROWS AND CONDUIT REQUIREMENTS: COESE CONTROL SPORP OWER ROWS AND SPECIFICATIONS FOR TYPE: COESE CONTROL SPORP ORECTION DEVICE DETALL OF SUBGR PROTECTION DEVICE FOR EACH EXTERNOL LOW NOLTAGE SYSTEMS CIRCUITS SURPRESSION CONDUCTION SPECIFICATIONS SAND SPECIFICATIONS FOR TYPE: COESE CONTROL CONTROL REGULTIONS AND SPECIFICATIONS FOR TYPE: COESE CONTROL CONTROL REGULTIONS AND SYSTEM INSTALLER. OFFICE TOR CONTROL REGULTIONS AND SYSTEM INSTALLER. OFFICE TOR CONTROL REGULTIONS AND | <section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header> | | CEILING MTD. TELECOMMUNICATION JUNCTION BOX ANI | |
| COORDINATE MOUNTING HEIGHTS, DEVICE LOCATIONS & POWERCONTROL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. CLOSED CIRCUIT VCAMERA (FKED), WALL MOUNTED. PROVIDE (1) CAT 6 DROP AT EACH LOCATION. CLOSED CIRCUIT VCAMERA (FKED), WALL MOUNTED. PROVIDE (1) CAT 6 DROP AT EACH LOCATION. ACCESS CONTROL SYSTEM SEED CARLING DROP AT EACH LOCATION. ACCESS CONTROL SYSTEM SEED FAIL DTDD2 FOR POWER POWER DISCONNECT. LOW YOI TAGE CARLING, ROYES AND CONDUIT REQUIREMENTS. REFER TO ARCHITECTURAL PLANS AND DOOR SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO ARCHITECTURAL PLANS AND DOOR SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. TO EXCENSION STREM INSTALLER. SEED CARD READER SPEAKER SYSTEM: CONDINATE MOUNTING HEIGHTS, DEVICE LOCATIONS & POWERCONTROL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. SPEAKER SYSTEM: CONDINATE MOUNTING HEIGHTS, DEVICE LOCATIONS & POWERCONTROL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. SPEAKER SYSTEM: CONDINATE MOUNTING HEIGHTS, DEVICE LOCATION & POWERCONTROL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER. SPEAKER SYSTEM: CONDINATE MOUNTING HEIGHTS, DEVICE LOCATION DEVICE DETALL A PROVIDE SURGE PROTECTION DEVICE FOR EACH EXCENSION WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR TYPE. SPEAKER SYSTEM INSTALLER. SEED CONTROL ON DEVICE LOCATION DEVICE FOR EACH EXCENSION WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR TYPE. SEED READER SURGE PROTECTION DEVICE FOR EACH CURCULE SURGE ROUTE ON TO ARREST INTER- SEED CONTROL OF SYSTEM DESART, TELECOMMUNICATIONS GROUNDUCTOR SIZED DETA TALLE FROM UNG CONTROL OF CURCUL SURGE PROTECTION DEVICE LOCATION TO MERCE FOR EACH CURCUL SURGE SUPPRESSION WEINER AND CURCUL SURGE SUPPRESSION WEINER AND CURCUL SURGE SUPPRESSION WEINER AND CURCUL SURGE SUPPRESSION WEINER AND CURCUL SURGE SUPPRESSION WEINER AND CURCUL SURGE SUPPRESSION WEINER AND CURCUL SURGE SUPPRESSION SUPPRESSION SUPPRESSION SUPPRESSION SUPPRESSION SUPPRESSION SUPP | <complex-block></complex-block> | | | |
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| | T0.01 SCALE:NO SCALE | A. PROV EXTE B. ELEC CONE PROT SYST GROU | (SIGNALING CIRCUIT SURGE PROTECTION DEVICE DETAIL) DE SURGE PROTECTION DEVICE FOR EACH NOR LOW VOLTAGE SYSTEMS CIRCUIT. RICAL CONTRACTOR SHALL PROVIDE GROUNDING UCTOR SIZED PER TABLE FROM SURGE ECTION DEVICE LOCATION TO NEAREST INTER- M GROUNDING BUSBAR, TELECOMMUNICATIONS NDING BUSBAR, OR PANELBOARD GROUNDING | GROUNDI WIRE S 12 AW 10 AW 8 AW0 6 AW0 |
| PATCH PANEL PER MTR OR TR IMPLIED LOCATION OF JACK (NO LABEL REQUIRED.) | | A. PROVEXTE B. ELEC CONE PROT SYST GROU BUSB | CISIGNALING CIRCUIT SURGE PROTECTION DEVICE DETAIL DE SURGE PROTECTION DEVICE FOR EACH NOT LOW VOLTAGE SYSTEMS CIRCUITS UCTOR SIZED PER TABLE FROM SURGE SETION DEVICE LOCATION TO NEAREST INTER- MIGROUNDING BUSBAR, OR PANELBOARD GROUNDING NDING BUSBAR, OR PANELBOARD GROUNDING CIRCUIT 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | GROUND WIRE S 12 AW 10 AW 8 AW 6 AW 10 AW 8 AW 6 AW 10 A |
| PATCH PANEL PER MTR OR TR | B B B B B B | A. PROV EXTE B. ELEC CONE PROT SYST GROU BUSB | CISIGNALING CIRCUIT SURGE PROTECTION DEVICE DETALL DE SURGE PROTECTION DEVICE FOR EACH RICAL CONTRACTOR SHALL PROVIDE GROUNDING UCTOR SIZED PER TABLE FROM SURGE ECTION DEVICE LOCATION TO NEAREST INTER- ING GROUNDING BUSBAR, OR PANELBOARD GROUNDING ING CIRCUIT 2 INFORMATION CONTENT INFORMATION CONT | GROUND DITEK 2MHLP 2 CIRCUIT SURGE SUPPRESSION GROUND 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| PATCH PANEL PER MTR OR TR MPLIED LOCATION OF JACK (NO LABEL REQUIRED.) NOTES:(FACEPLATE DETAIL) A. PROVIDE WHITE JACKS FOR DATA. | B B 01,02,03 NOTES: (FACEPLATE DETAIL) A. PROVIDE WHITE JACKS FOR DATA. | A. PROVEXTE B. ELEC CONE PROT SYST GROU BUSB | CISIGNALING CIRCUIT SURGE PROTECTION DEVICE DETALL DE SURGE PROTECTION DEVICE FOR EACH RICAL CONTRACTOR SHALL PROVIDE GROUNDING UCTOR SIZED PER TABLE FROM SURGE ECTION DEVICE LOCATION TO NEAREST INTER- ING GROUNDING BUSBAR, OR PANELBOARD GROUNDING ING CIRCUIT 1 UTTO SIZED PER TABLE FROM SURGE ING ROUNDING BUSBAR, OR PANELBOARD GROUNDING ING CIRCUIT 1 UTTO EVICE LOCATION TO NEAREST INTER- ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- INFORMATION OF DUSBAR, OR PANELBOARD GROUNDING ING CIRCUIT 2 UTTO EVICE LOCATION TO NEAREST INTER- INFORMATION OF DUSBAR, OR PANELBOARD GROUNDING TO NEAREST INTER- INFORMATION OF DUSBAR, OR PANELBOARD GROUNDING TO NEAREST INTER- INFORMATION OF DUSBAR, OR PANELBOARD GROUNDING TO NEAREST INTER- INFORMATION OF DUSBAR, OR PANELBOARD GROUNDING TO NEAREST I | GROUND DITEK 2MHLP 2 CIRCUIT SURGE SUPPRESSION GROUND DITEK-MB10 BASE CEED PROTECTED DITEK-MB10 BASE CEED PROTECTED DITEK-MB10 BASE CEED PROTECTION DEEV CEED PROTECTION DEEV CEED PROTECTION OF PATCH PANEL PER MIT OR TR PATCH PANEL PER MIT OR TR MPLIED LOCATION OF JACK (NO LABEL REQUIRED.) NOTES: (FACEPLATE DETAIL) A. PROVIDE WHITE JACKS FOR DATA. |
| PATCH PANEL PER MTR OR TR MPLIED LOCATION OF JACK (NO LABEL REQUIRED.) NOTES: (FACEPLATE DETAIL) A. PROVIDE WHITE JACKS FOR DATA. | Image: Second state in the second s | A. PROV EXTE B. ELEC CONE PROT SYST GROU BUSB | CISIONALING CIRCUIT SURGE PROTECTION DEVICE DETAIL DE SURGE PROTECTION DEVICE FOR EACH RICAL CONTRACTOR SHALL PROVIDE GROUNDING SUCTOR SIZED PER TABLE FROM SURGE SUTOR DEVICE LOCATION TO NEAREST INTER- MISSION OF THE LOCOMMUNICATIONS DURING USBAR, OR PANELBOARD GROUNDING IN IN IN IN IN IN IN IN IN IN | GROUND UTEK 2MHLP 2 CIRCUIT SURGE SUPPRESSION CIRCUIT SURGE SUPPRESSION UPTEK-MB10 BASE CEED PROTECTED DITEK-MB10 BASE CEED COMMUNICATIONS ROOM NUMBER RACK NUMBER PER MTR OR TR PATCH PANEL PER MTR OR TR MPLIED LOCATION OF JACK (NO LABEL REQUIRED.) NOTES: (FACEPLATE DETAIL) A. PROVIDE WHITE JACKS FOR DATA. |



MMUNICATIONS GROUNDING & BONDING RISER DIAGRAM





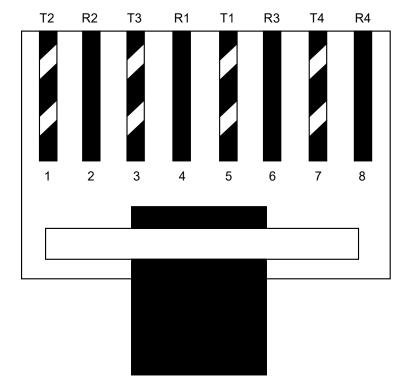
| ONDING BACKBONE (TBB) EQUALIZER (GE) . SIZE TABLE |
|---------------------------------------------------------|
| MINIMUM AWG CONDUCTOR |
| 6 |
| 4 |
| 3 |
| 2 |
| 1 |
| 1/0 |
| 2/0 |
| 3/0 |
| 4/0 |
| 250 kcmil |
| 300 kcmil |
| 350 kcmil |
| 500 kcmil |
| 600 kcmil |
| F |

NOTE: ALL CONDUCTORS SHALL HAVE GREEN THHN INSULATION.

750 kcmil

T568-B PINOUT 1. ORANGE/WHITE 2. ORANGE 3. GREEN/WHITE

- 4. BLUE
- 5. BLUE/WHITE
- 6. GREEN 7. BROWN/WHITE
- 8. BROWN

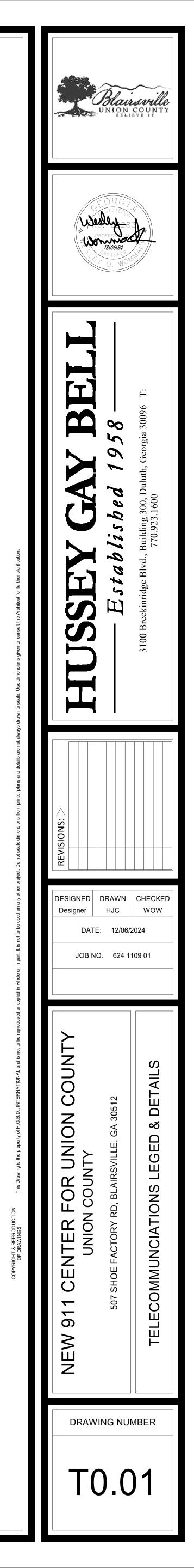


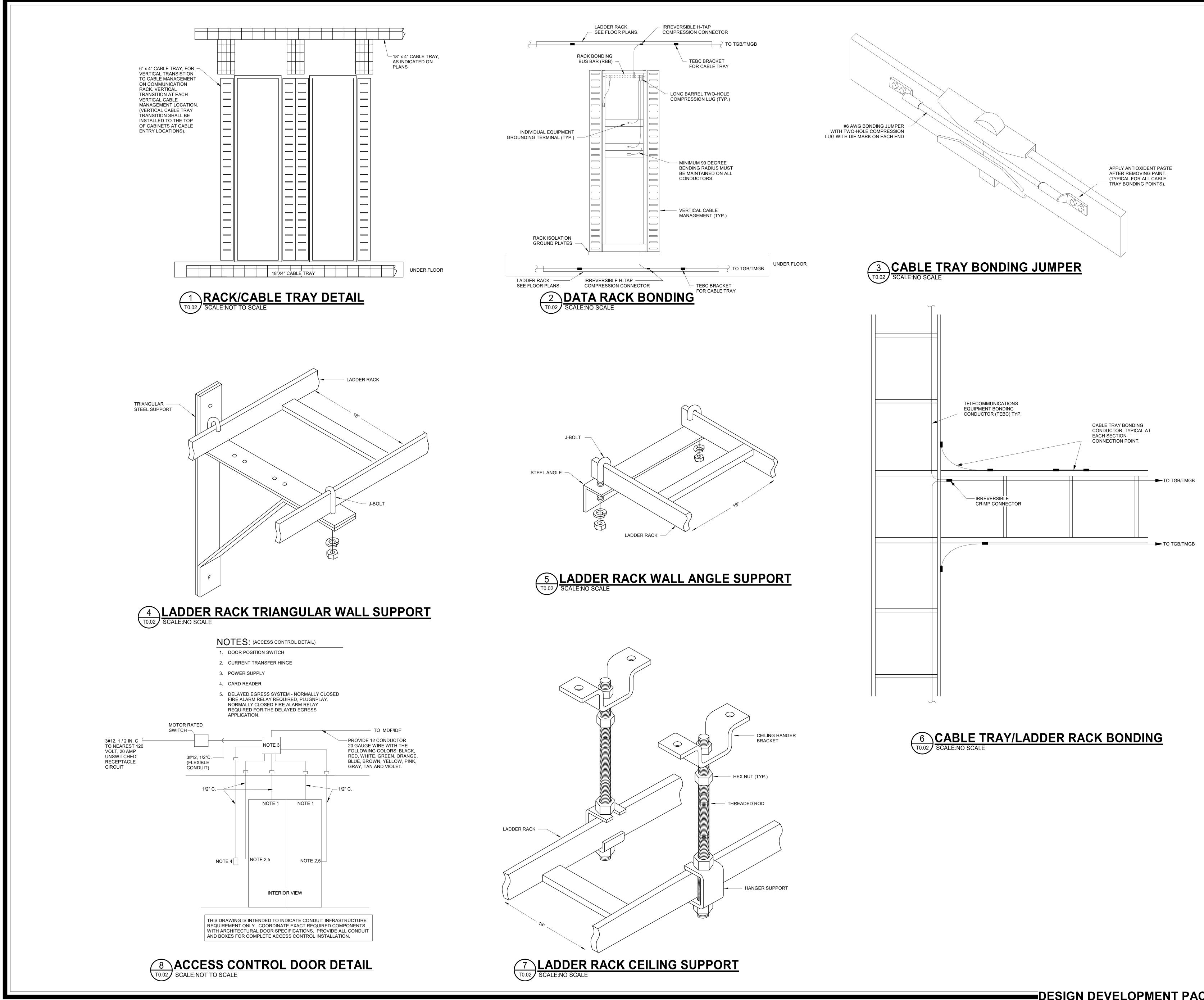


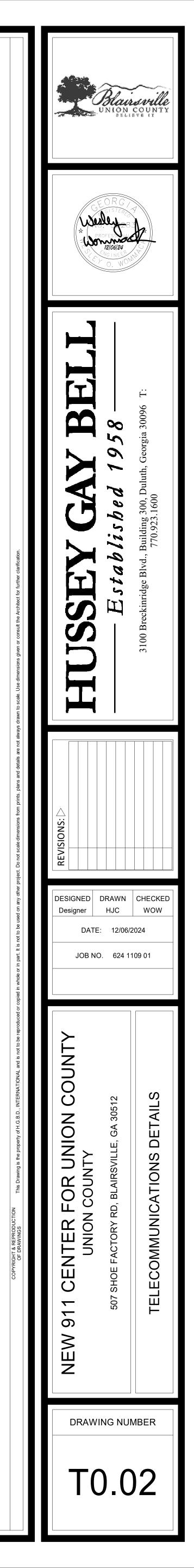
THIS DETAIL IS NOT INTENDED TO DEFINE OVERALL CABLE QUANTITIES.

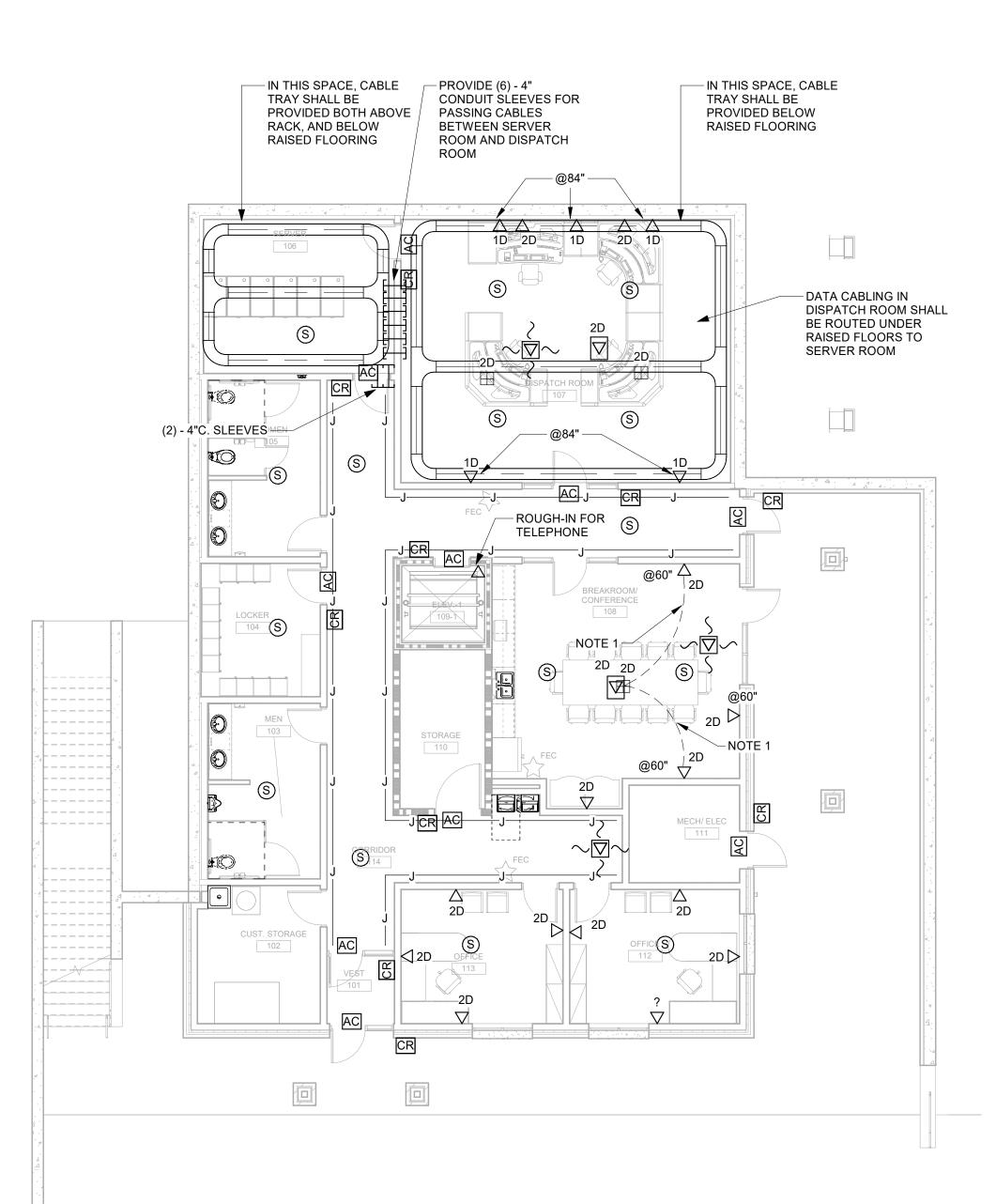
4 T0.01 **LABELS - 48 PORT CAT 6 PATCH PANEL** SCALE:NOT TO SCALE

6 T0.01 RACK ELEVATION LAYOUT SCALE:NOT TO SCALE







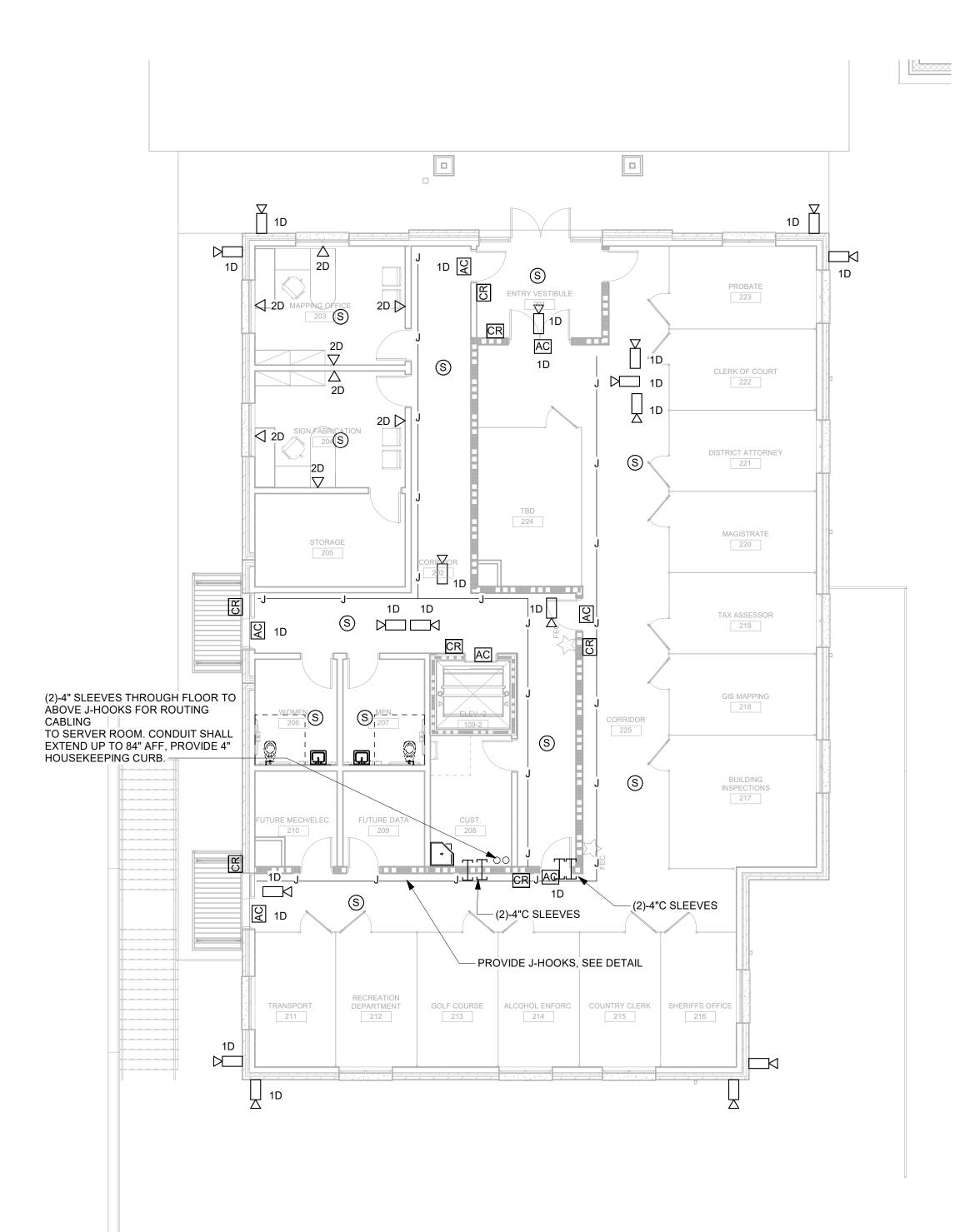




NOTES: (J-HOOK DETAIL)

- A. ALL J-HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.
- PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.
- C. WHERE J-HOOKS ARE 2 OR MORE ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.
- D. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-
- HOOKS. E. FIRE SEAL AROUND ALL CONDUIT SLEEVES AS SHOWN IN CONDUIT PENETRATION DETAILS. SEE ARCHITECTURAL SHEET REQUIRED RATINGS.
- F. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGH-IN.
- G. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL
- PLAN FOR WALL MATERIALS. H. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING VELCRO TIE WRAPS
- AT MINIMUM 5' INTERVALS. I. J-HOOKS SHALL SUPPORT CABLING FOR: INTERCOM, DATA, TELEPHONE,
- CCTV, INTRUSION AND TELEVISION DISTRIBUTION.
- J. J-HOOKS SHALL SUPPORT A SINGLE SYSTEM CABLING SHALL NOT BE INTERMINGLED.
- K. PROVIDE QUANTITY OF J-HOOKS AS REQUIRED FOR CABLING NOTED ON DRAWINGS, DO NOT EXCEED J-HOOK CAPACITY.

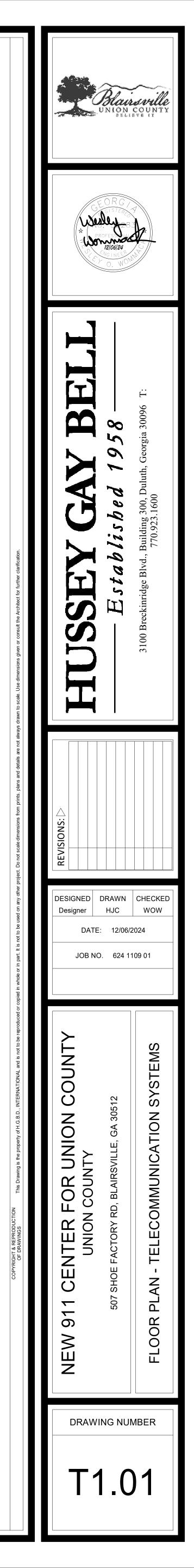


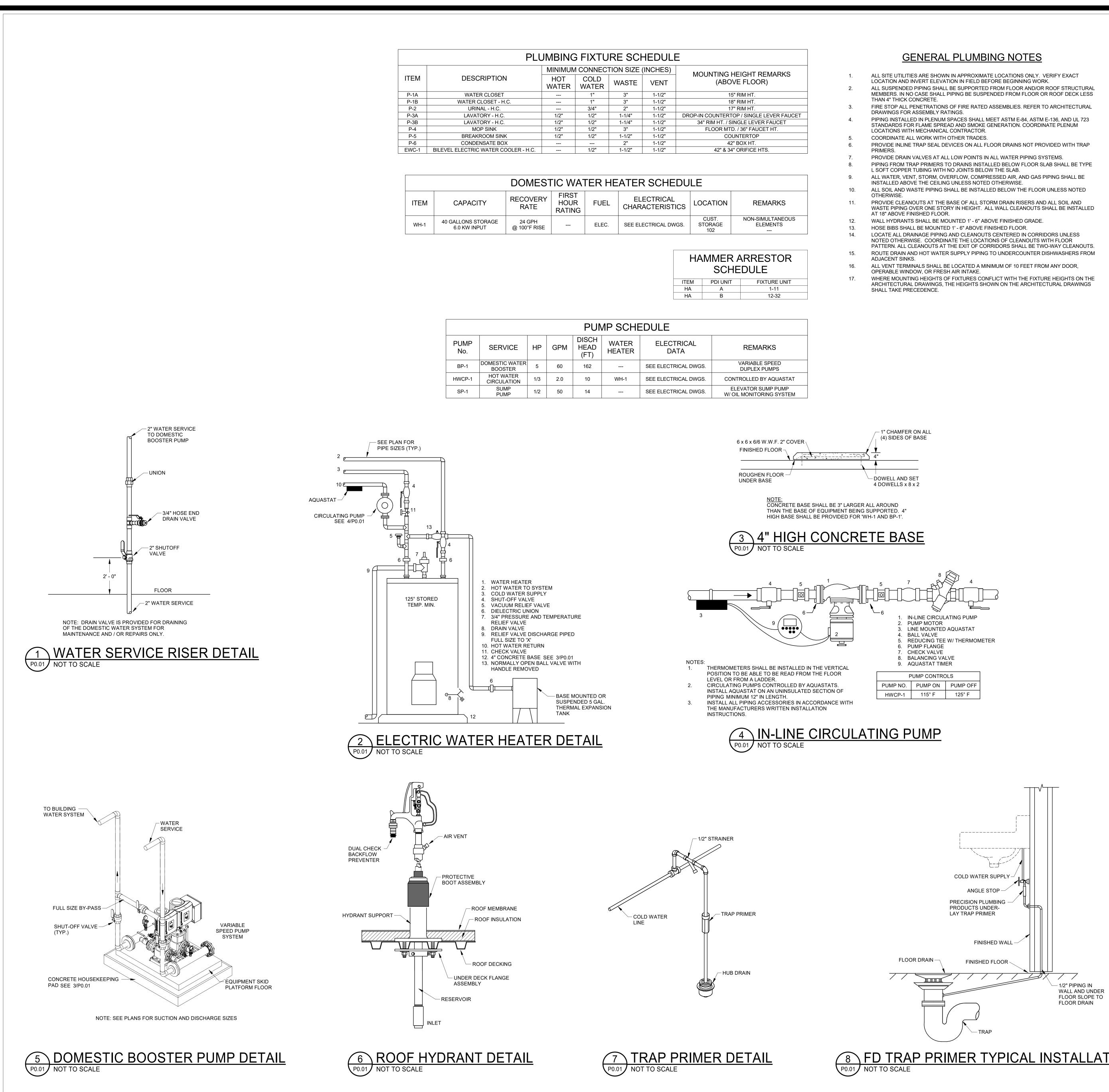


NOTES:

1. EXTEND 1-1/4"C. W/ PULL STRING FROM FLOOR BOX, UP WALL AND INTO BOTTOM OF TELECOMMUNICATIONS OUTLET FOR FUTURE AV CABLES.

2 T1.01 **TELECOMMUNICATIONS PLAN - LEVEL 2** SCALE: 1/8" = 1'-0"



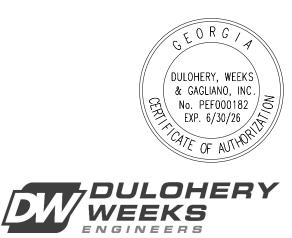


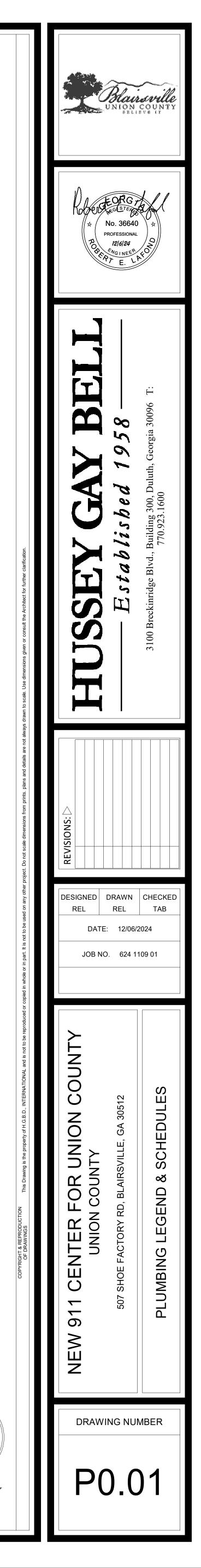
| IM DESCRIPTION HOI WATER COLD WATER VENT (ABOVE FLOOR) 2. A WATER CLOSET 1* 3* 1-1/2* 15*RIM HT. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. <th></th> <th></th> <th>MINIMU</th> <th>A CONNEC</th> <th>TION SIZE</th> <th>(INCHES)</th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | MINIMU | A CONNEC | TION SIZE | (INCHES) | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------|----------------------------|-------------------|--------------|-----------------------|--------------------|--------------------------------------------------|----------------------------------|----------------------------------------------------|------------------------------------------------------------|
| B WATER CLOSET - H.C. 1* 3* 1-1/2* 18* RIM HT. 3. 2 URINAL - H.C. 3/4* 2* 1-1/2* 17* RIM HT. 3. 3. A LAVATORY - H.C. 1/2* 1-1/4* 1-1/2* DROP-IN COUNTERTOP / SIGLE LEVER FAUCET 4. B LAVATORY - H.C. 1/2* 1-1/4* 1-1/2* DROP-IN COUNTERTOP / SIGLE LEVER FAUCET 4. MOP SINK 1/2* 1/2* 1-1/4* 1-1/2* DROP-IN COUNTERTOP / SIGLE LEVER FAUCET 4. 5 BREAKROOM SINK 1/2* 1-1/2* 1-1/2* GOUNTERTOP / SIGLE LEVER FAUCET 5. 6 CONDENSATE BOX 2* 1-1/2* 42* 8.34* ORFICE HTS. 5. 1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2* 1-1/2* 42* 8.34* ORFICE HTS. 7. 8. 9. 10. 11. 11. 11. 11. 11. 1 MATE RATE FIRST HOUR ELEC | M | DESCRIPTION | - | | WASTE | VENT | MO | | | 1. 2. | A L A |
| D WH-1 CAPACITY RECOVERY RATE FUEL FLOC FUEL FLO | <u>م</u> | WATER CLOSET | | 1" | 3" | 1-1/2" | | 1: | i" RIM HT. | | Ν |
| Z DUNKE TIL: The 34' Z 11/2' 11/2' DROP-IN COUNTERTOP / SINGLE LEVER FAUCET 4. 18 LAVATORY - H.C. 1/2' 1/2' 1-1/2' DROP-IN COUNTERTOP / SINGLE LEVER FAUCET 4. 18 LAVATORY - H.C. 1/2' 1/2' 1-1/2' 34'' RIM HT./SINGLE LEVER FAUCET 5. 5 BREARCOM SINK 1/2' 1/2'' 1-1/2'' FLOOR MTD. / 36'' FAUCET HT. 5. 6 CONDENSATE BOX ' 2'' 1-1/2'' 42'' BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 42'' BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 42'' BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 42'' BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 1/2'''''''''''''''''''''''''''''''''''' | В | WATER CLOSET - H.C. | | 1" | 3" | 1-1/2" | | 18 | B" RIM HT. | | Т |
| AA LAVATORY-H.C. 1/2" 1/14" 1-1/2" DROP-IN COUNTERTOP / SINGLE LEVERY FADCET 4. BB LAVATORY-H.C. 1/2" 1/14" 1-1/2" 34" RIM HT./SINGLE LEVER FADCET 5. 5 BREAKROOM SINK 1/2" 1/2" 1-1/2" 1-1/2" GOUNTERTOP / SINGLE LEVER FAUCET HT. 5. 6 CONDENSATE BOX 2" 1-1/2" 42" & 34" ORIFICE HTS. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2" 1-1/2" 42" & 34" ORIFICE HTS. 6. DOMESTIC WATER HEATER SCHEDULE 9. 10. 10. 8. 9. 10. TEM CAPACITY FIRST RATE FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. wH-1 40 GALLONS STORAGE 24 GPH @ 100"F RISE ELEC. SEE ELECTRICAL DWGS. CUST NON-SIMULTANEOUS LICE 12. 13. 14. 40 GALLONS STORAGE 24 GPH @ 100"F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE STORAGE 12. 13. 14. 100"F RISE | 2 | URINAL - H.C. | | 3/4" | 2" | 1-1/2" | | 17 | /" RIM HT. | 3. | F |
| B LAVATORY - H.C. 112' 112' 112' 114' 1-1/2' 34 KIM H1./SINGLE LEVER FAUCET IT. 5 BREAKROOM SINK 11/2'' 12'' 1''' FLOOR MTD./36' FAUCET HT. 5. 6 CONDENSATE BOX 2'' 1-1/2'' COUNTERTOP 5. 5 BREAKROOM SINK 1/2'' 1/2'' 1-1/2'' 42'' BOX HT. 6. 5.1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 42'' BOX HT. 6. 2.1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 42'' BOX HT. 6. 2.1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2'' 1-1/2'' 42'' BOX HT. 6. 7.8 1.1/2'' 1-1/2'' 1-1/2'' 42'' BOX HT. 6. 7. 8.0 MCONESTIC WATER HEATER SCHEDULE IOCATION REMARKS 10. 11. TEM CAPACITY RECOVERY FIRST HOUR CUST. NON-SIMULTANEOUS 12. | ۹ – T | LAVATORY - H.C. | 1/2" | 1/2" | 1-1/4" | 1-1/2" | DROP-IN | COUNTERT | OP / SINGLE LEVER FAUCET | | C |
| 4 MOP SINK 1/2" 1/2" 3" 1-1/2" FLOOR MTD. / 36" FAUCET HT. 5 BREAKROOM SINK 1/2" 1/2" 1-1/2" COUNTERTOP 5. 6 CONDENSATE BOX 2" 1-1/2" 42" BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2" 1-1/2" 42" BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2" 1-1/2" 42" BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2" 1-1/2" 42" BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - HEATER SCHEDULE 9. 9. 10. 1. TEM CAPACITY RECOVERY RATE FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. WH-1 40 GALLONS STORAGE 24 GPH GP 100"F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE 102 12. WH-1 40 GALLONS STORAGE 24 GPH GP 100"F RISE <td< td=""><td>В</td><td>LAVATORY - H.C.</td><td>1/2"</td><td>1/2"</td><td>1-1/4"</td><td>1-1/2"</td><td>34"</td><td>' RIM HT. / S</td><td>NGLE LEVER FAUCET</td><td>4.</td><td>F</td></td<> | В | LAVATORY - H.C. | 1/2" | 1/2" | 1-1/4" | 1-1/2" | 34" | ' RIM HT. / S | NGLE LEVER FAUCET | 4. | F |
| 5 BREAKROOM SINK 1/2" 1/2" 1-1/2" 1-1/2" COUNTERTOP 5. 6 CONDENSATE BOX 2" 1-1/2" 42" BOX HT. 6. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2" 1-1/2" 42" BOX HT. 6. 7. 8. 9. 1.1/2" 1-1/2" 1-1/2" 42" & 34" ORIFICE HTS. 7. TEM CAPACITY RECOVERY RATE FIRST HOUR RTING FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. WH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100"F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE 102 12. HAMMER ARRESTOR SCHEDULE 13. | <u>ا</u> | MOP SINK | 1/2" | 1/2" | 3" | 1-1/2" | | FLOOR MT | D. / 36" FAUCET HT. | | L |
| a CONDENSATE BOX 2" 1-1/2" 42" BOX HT. 6. 2-1 BILEVEL ELECTRIC WATER COOLER - H.C. 1/2" 1-1/2" 1-1/2" 42" & 34" ORIFICE HTS. 7. 8. POMESTIC WATER COOLER - H.C. 1/2" 1-1/2" 1-1/2" 42" & 34" ORIFICE HTS. 7. 8. 9. 0. 0. 0. 0. 0. 0. 0. 0. TEM CAPACITY RECOVERY RATE FIRST HOUR RATING FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. MH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100"F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE 102 NON-SIMULTANEOUS ELEMENTS 102 12. 14. HAMMER ARRESTOR SCHEDULE 15. 16. | 5 | BREAKROOM SINK | 1/2" | 1/2" | 1-1/2" | 1-1/2" | | CO | JNTERTOP | 5 | (|
| Dilevel electric water cooler - H.C. 1/2" 1-1/2" 1-1/2" 42" & 34" ORIFICE HTS. 7. 8. 9. 9. 9. 10. 10. 10. TEM CAPACITY RECOVERY RATE FIRST HOUR RATING FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. NH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100°F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE 102 NON-SIMULTANEOUS ELEMENTS 12. 14. 14. 10. 11. 11. 11. 11. | 6 | CONDENSATE BOX | | | 2" | 1-1/2" | | 42 | " BOX HT. | | F |
| 8. 9. 10. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. | -1 | BILEVEL ELECTRIC WATER COOLER - H | | 1/2" | 1-1/2" | 1-1/2" | | 42" & 34 | " ORIFICE HTS. | 5. | F |
| TEM CAPACITY RECOVERY RATE FIRST HOUR RATE FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. /H-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100°F RISE ELEC. SEE ELECTRICAL DWGS. CUST. STORAGE 102 NON-SIMULTANEOUS ELEMENTS 12. 13. 14. HAMMER ARRESTOR SCHEDULE 15. 16. | | | | | | | | | | | P |
| rem CAPACITY RECOVERY RATE FIRST HOUR RATE FUEL ELECTRICAL CHARACTERISTICS LOCATION REMARKS 11. vH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100°F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE 102 NON-SIMULTANEOUS ELEMENTS 102 12. 13. 13. 14. VH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100°F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE STORAGE 102 NON-SIMULTANEOUS ELEMENTS 12. 13. 14. VH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100°F RISE ELEC. SEE ELECTRICAL DWGS. STORAGE 102 NON-SIMULTANEOUS ELEMENTS 13. 14. HAMMER ARRESTOR SCHEDULE 16. 16. 16. 16. 16. | | | | | | | | | | 8. | F F L |
| WH-1 40 GALLONS STORAGE 6.0 KW INPUT 24 GPH @ 100°F RISE ELEC. SEE ELECTRICAL DWGS. CUST. STORAGE 102 NON-SIMULTANEOUS ELEMENTS 12. 13. 14. HAMMER ARRESTOR SCHEDULE 15. 16. | | DON | ESTIC V | ATER H | HEATER | R SCHE | DULE | | | 8. 9. | P P L A |
| HAMMER ARRESTOR SCHEDULE 15. 16. | ГЕМ | CARACITY RECO | ERY FIRS | T R FUEI | EL | ECTRICAL | 1.00 | CATION | REMARKS | 8. 9. 10. | F L A II A C F V |
| SCHEDULE ^{16.} | | CAPACITY RECO RA 40 GALLONS STORAGE 24 G | ERY FIRS E HOU RATII | T R FUEI NG | - EL CHAR | ECTRICAL ACTERISTI | | CUST. ORAGE | NON-SIMULTANEOUS | 8. 9. 10. 11. 12. 13. | F F L A III A C F V V V F |
| | | CAPACITY RECO RA 40 GALLONS STORAGE 24 G | ERY FIRS E HOU RATII | T R FUEI NG | - EL CHAR | ECTRICAL ACTERISTI | ICS LOC IGS. ST | CUST. ORAGE 102 | NON-SIMULTANEOUS ELEMENTS | 8. 9. 10. 11. 12. 13. 14. | |
| HA A 1-11 | | CAPACITY RECO RA 40 GALLONS STORAGE 24 G | ERY FIRS E HOU RATII | T R FUEI NG | - EL CHAR | ECTRICAL ACTERISTI | ICS LOC IGS. ST | CUST. ORAGE 102 MMER SCH PDI UNIT | NON-SIMULTANEOUS ELEMENTS | 8. 9. 10. 11. 12. 13. 14. 15. | |

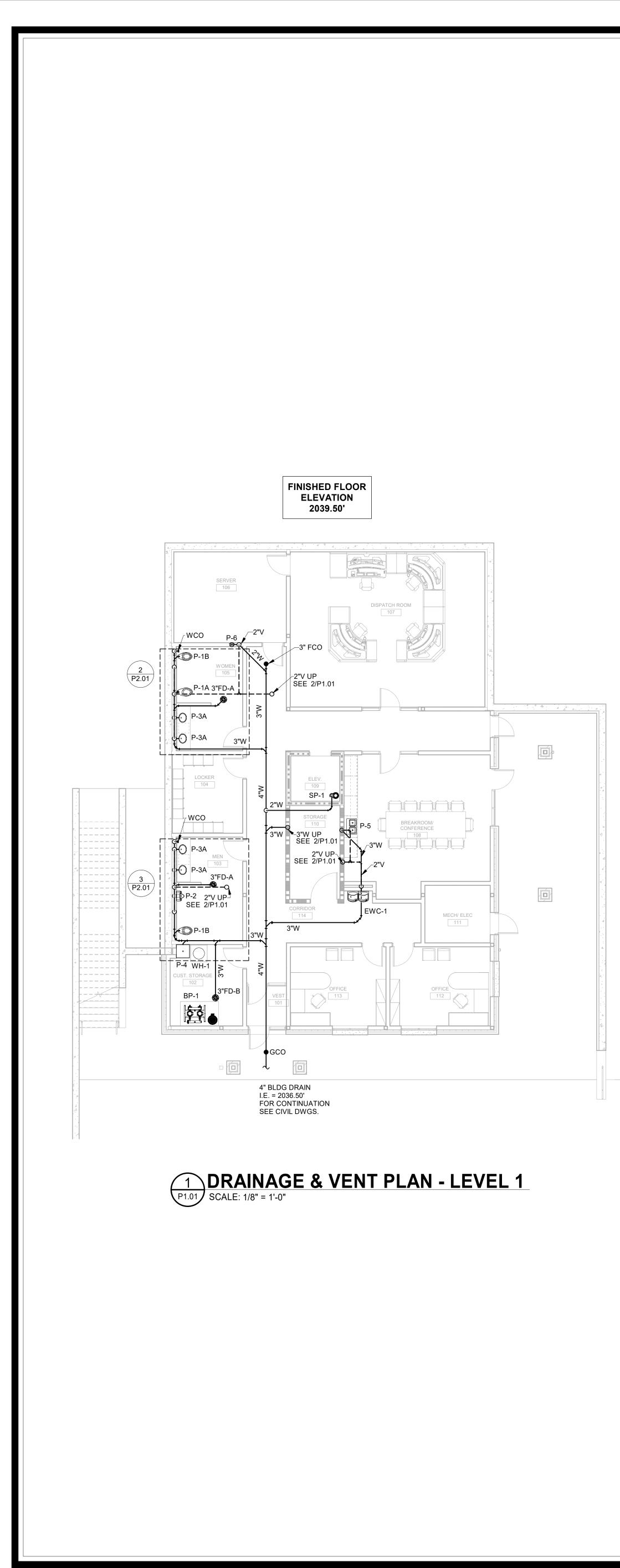
| | | | | PUN | / P SCHE | EDULE | |
|-------------|---------------------------|-----|-----|-----------------------|-----------------|----------------------|------------------------------------------------|
| PUMP No. | SERVICE | HP | GPM | DISCH HEAD (FT) | WATER HEATER | ELECTRICAL DATA | REMARKS |
| BP-1 | DOMESTIC WATER BOOSTER | 5 | 60 | 162 | | SEE ELECTRICAL DWGS. | VARIABLE SPEED DUPLEX PUMPS |
| HWCP-1 | HOT WATER CIRCULATION | 1/3 | 2.0 | 10 | WH-1 | SEE ELECTRICAL DWGS. | CONTROLLED BY AQUASTAT |
| SP-1 | SUMP PUMP | 1/2 | 50 | 14 | | SEE ELECTRICAL DWGS. | ELEVATOR SUMP PUMP W/ OIL MONITORING SYSTEM |

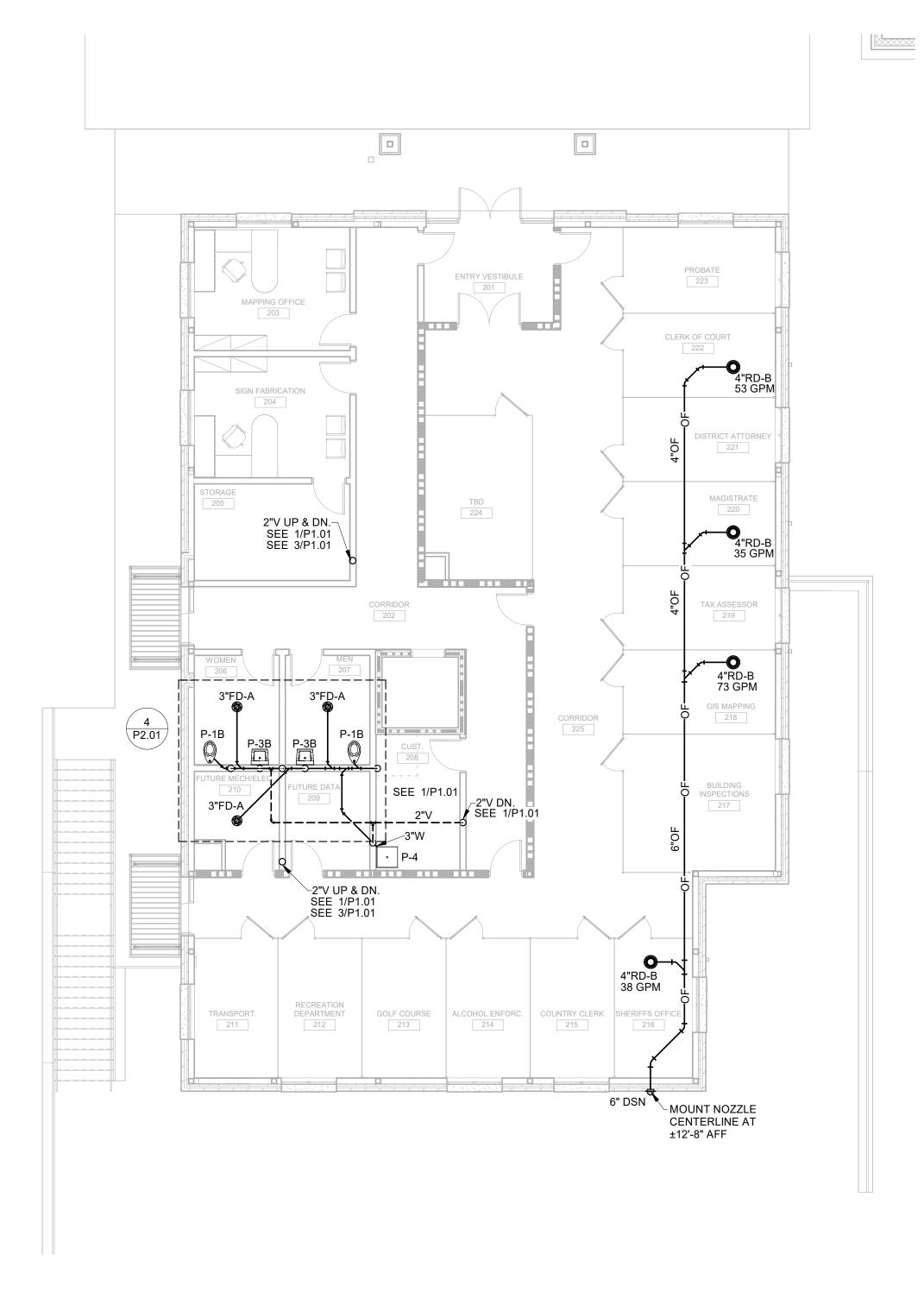
| RAP PRIMER TYPICAL INSTALLATION DETAIL |
|----------------------------------------|
| |

| PLUMBING LEGEND | | |
|-----------------|------------------------------|--------------------------------------|
| ABBREVIATION | SYMBOL | DESCRIPTION |
| HWR | | HOT WATER RETURN PIPING |
| Н | | HOT WATER PIPING |
| С | | COLD WATER PIPING |
| G | G | GAS PIPING |
| CA | СА | COMPRESSED AIR PIPING |
| ST | st | STORM DRAIN PIPING (ABOVE GROUND) |
| ST | – – – st – – – | STORM DRAIN PIPING (BELOW GROUND) |
| OF | OF | OVERFLOW DRAIN PIPING |
| W | | SOIL AND WASTE PIPING |
| V | | VENT PIPING |
| GW | GW | GREASE WASTE DRAIN PIPING |
| | 国 人 | SOLENOID VALVE |
| | \bowtie | SHUTOFF VALVE |
| | -124- | CHECK VALVE |
| | | THERMOSTATIC BALANCING VALVE |
| HB/E | +••• | HOSE BIB (WALL BOX) FREEZE PROOF |
| HB/B | + | HOSE BIB (WALL BOX) NON-FREEZE PROOF |
| HB/R | $\overline{\bullet}$ | ROOF HYDRANT FREEZE PROOF |
| HB/I | | HOSE BIB (INTERIOR) |
| WCO | | WALL CLEANOUT |
| FCO | ۲ | FLOOR CLEANOUT |
| GCO | | GRADE CLEANOUT |
| RD-'' | | ROOF DRAIN - TYPE |
| FD-'' | $\overline{(\mathfrak{A})}$ | FLOOR DRAIN - TYPE |
| FS-'' | | FLOOR SINK - TYPE |
| DSN | 4 | DOWNSPOUT NOZZLE |
| HA-'' | ۲ | WATER HAMMER ARRESTER - TYPE |
| | \mathbf{e} | CONNECT TO EXISTING |
| VTR | 0 | VENT THROUGH ROOF |
| VTS | <u> </u> | VENT THROUGH SIDEWALL |
| HWCP | Ģ | HOT WATER RECIRCULATING PUMP |
| WH | | WATER HEATER |
| AC | | AIR COMPRESSOR |
| RAD | | REFRIGERATED AIR DRYER |
| AFF | | ABOVE FINISHED FLOOR |
| AFG | | ABOVE FINISHED GRADE |
| B/F | | BELOW FLOOR |
| A/C | | ABOVE CEILING |
| U/G | | UNDER GROUND |
| I.E. | | INVERT ELEVATION |
| GPM | | GALLONS PER MINUTE |
| GPH | | GALLONS PER HOUR |
| TYP. | | TYPICAL |
| Т-Р | | TRAP PRIMER |
| PSI | | POUNDS PER SQUARE INCH |
| CFH | | CUBIC FEET PER HOUR |
| W.C. | | WATER COLUMN |
| ARCH. | | ARCHITECTURAL |
| | | |
| DWGS. | | DRAWINGS |

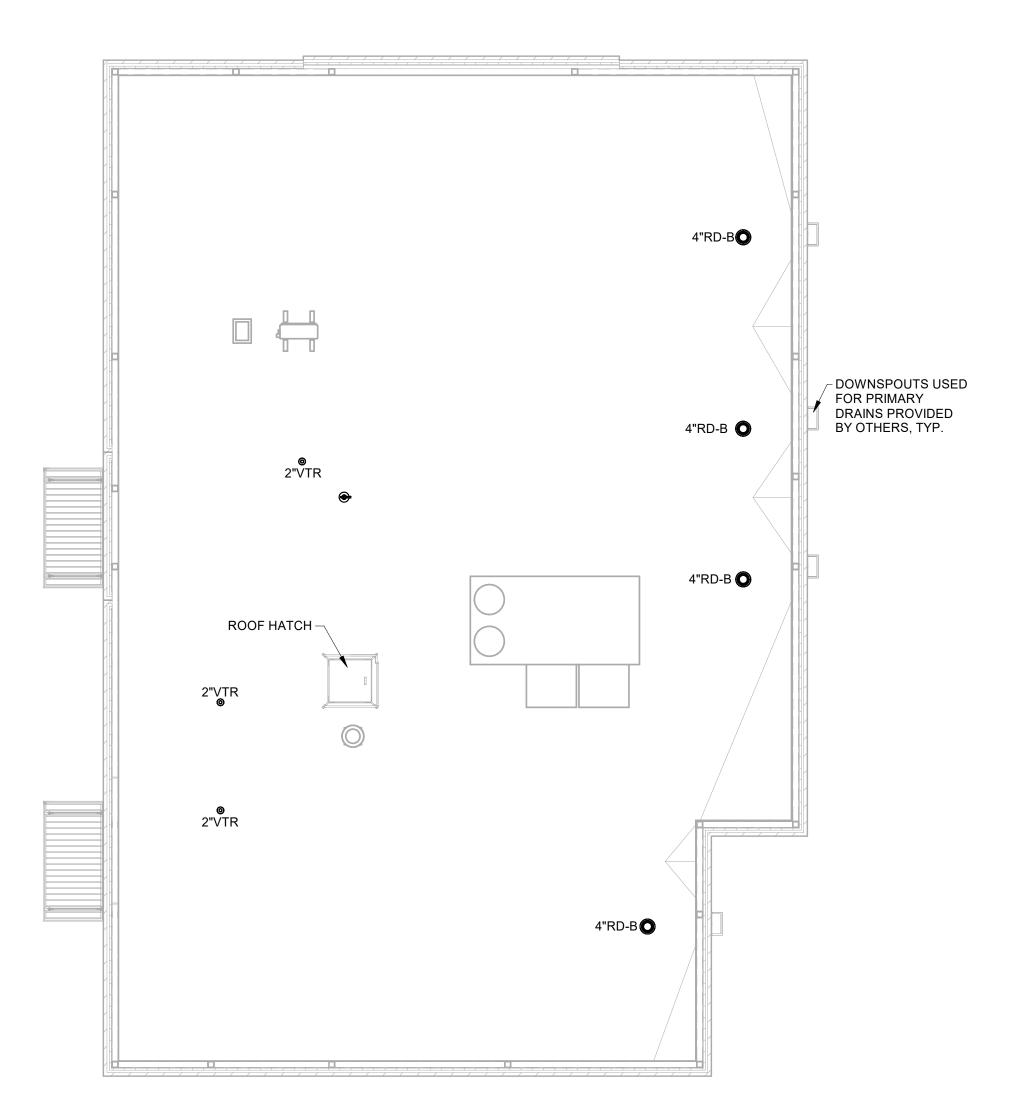








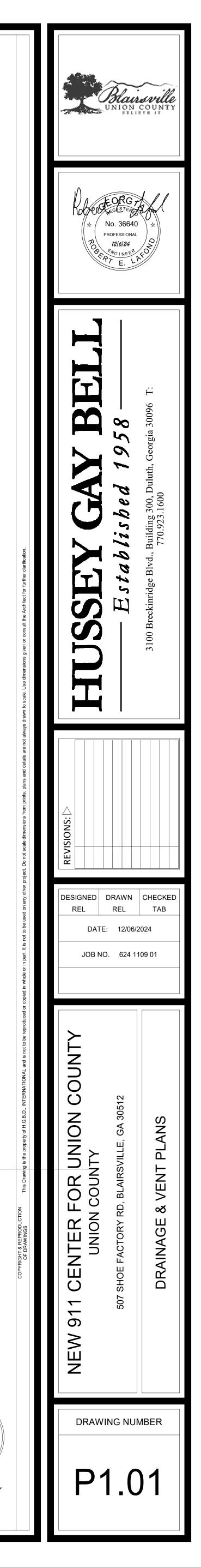
2 P1.01 **DRAINAGE & VENT PLAN - LEVEL 2** SCALE: 1/8" = 1'-0"

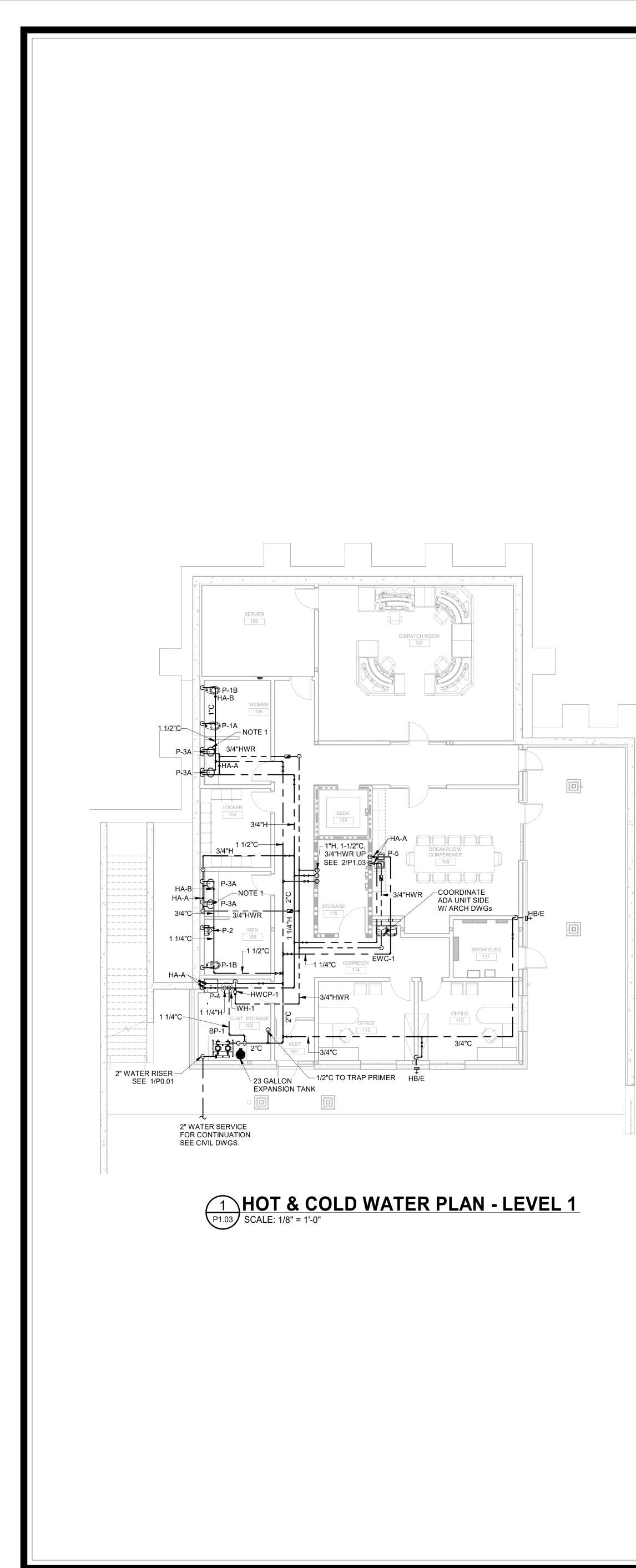


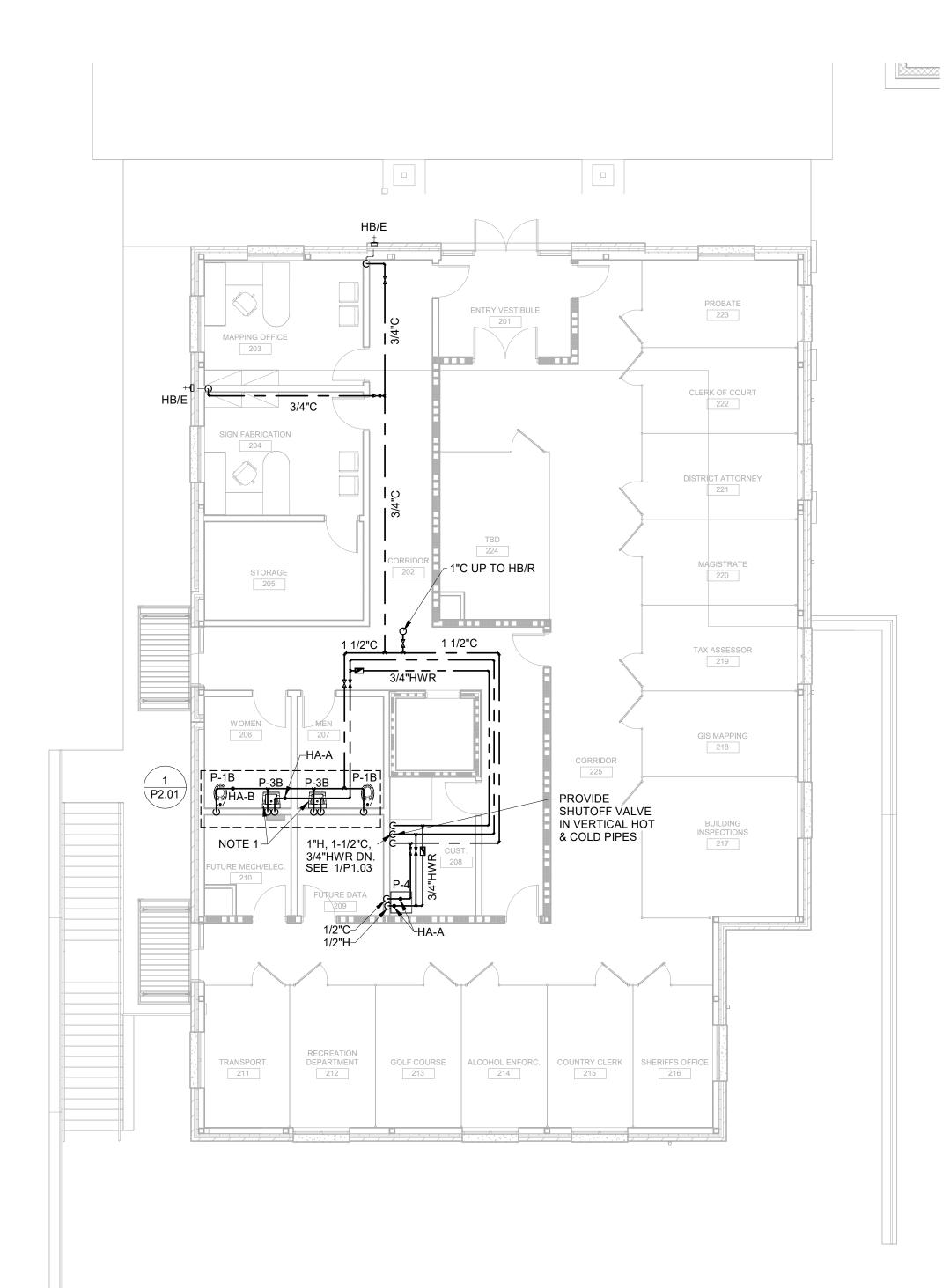




CONSTRUCTION DOCUMENT PACKAGE







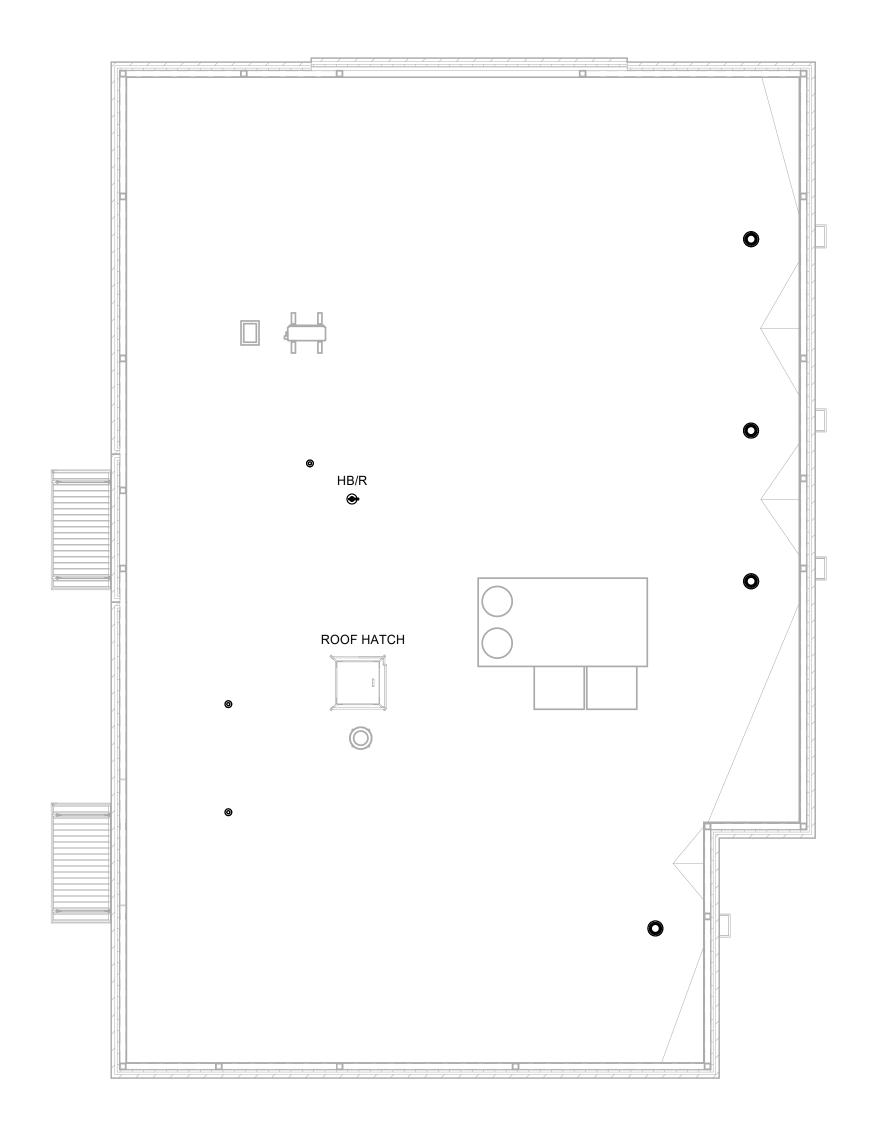
2 HOT & COLD WATER PLAN - LEVEL 2 P1.03 SCALE: 1/8" = 1'-0"



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3 HOT & COLD WATER PLAN - ROOF SCALE: 1/8" = 1'-0"



SHEET NOTES

1. PROVIDE TRAP PRIMER CONNECTION THIS LAVATORY. SEE 8/P0.01

