

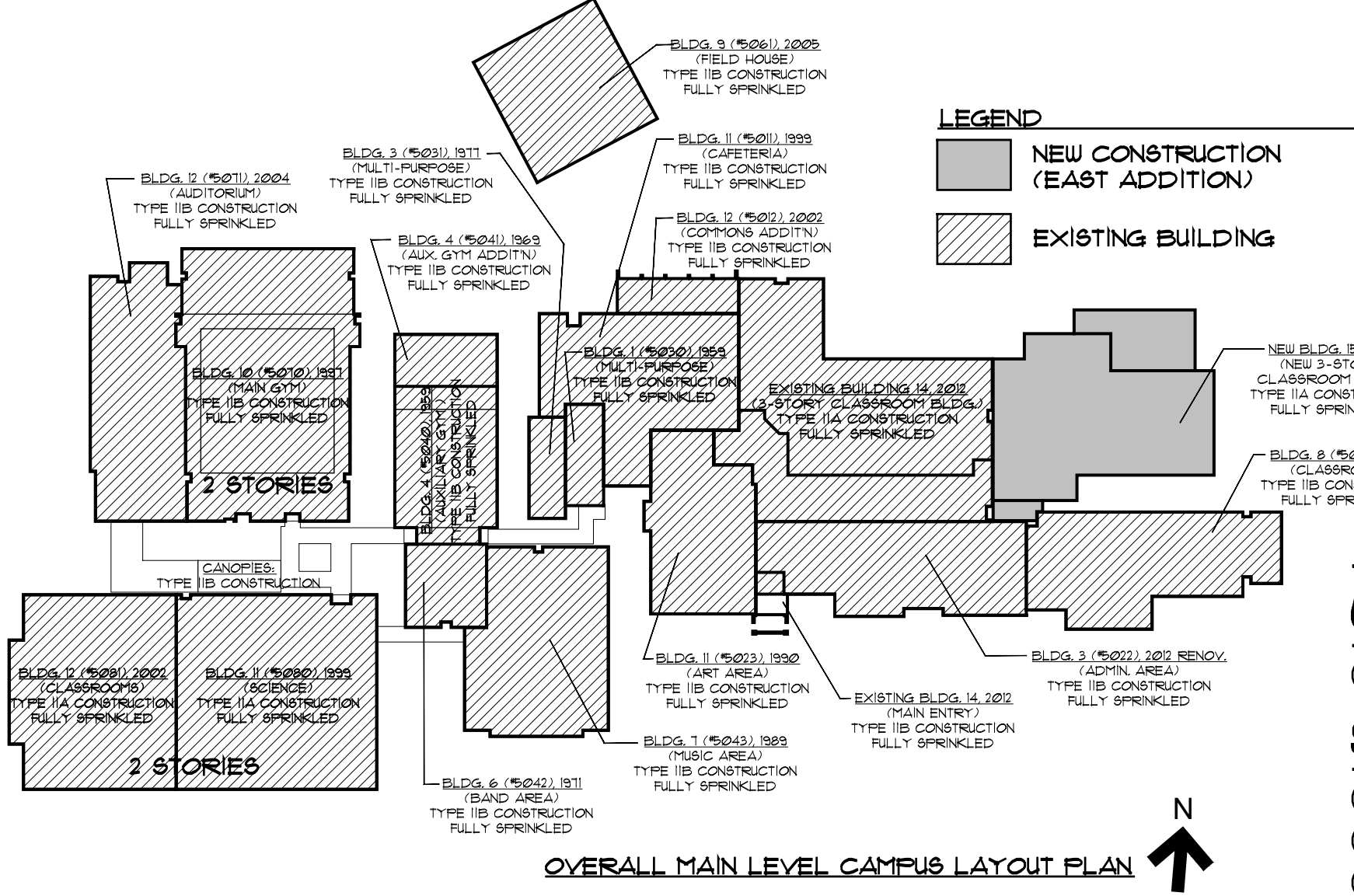
# NORTH GWINNETT HIGH SCHOOL

## EAST ADDITION

20 LEVEL CREEK ROAD / SUWANEE, GA 30024  
FOR GWINNETT COUNTY BOARD OF EDUCATION  
(CITY OF SUWANEE, GEORGIA)

SITE CODE # 1130.01 / FACILITY CODE # 4556

DATE	REVISION	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	



OVERALL MAIN LEVEL CAMPUS LAYOUT PLAN

### 3-STORY CLASSROOM BUILDING (EAST) ADDITION

**GWINNETT COUNTY PUBLIC SCHOOLS - BUILDING PLAN REVIEW**  
Facilities and Operations  
53 Gwinnett Drive  
Lawrenceville, Georgia 30045-6900

John Gramigna, Director of Facility Planning (770-513-6621)  
Caray Bell, Engineering Review Coordinator (770-513-6624)

#### BUILDING CODE COMPLIANCE CHECKLIST

PROJECT CRITERIA: Plan review is based on the following information:

DATE OF REVIEW: 11/22/2021 REVISED	B.P. FILE:
BUILDING PERMIT #:	SITE DEVELOPMENT PERMIT:
DISTRICT/LAND LOT/ PARCEL #: 7th/288R-72-87-015	ZONING DISTRICT: R-75

PROJECT NAME: NORTH GWINNETT HIGH SCHOOL - EAST ADDITION  
PROJECT ADDRESS: 20 LEVEL CREEK ROAD, SUWANEE, GA 30024

OCCUPANCY CLASSIFICATION	EDUCATION	CONSTRUCTION CLASSIFICATION	IIA
Calculated Occupant Load: 1,187	1,187	Type of Construction: Sprinklered (YES or NO)	YES

NEW BUILDING AREA PER FLOOR (SQ. FT.)	NUMBER OF STORIES	BUILDING HEIGHT
Main Floor Area: 27,076 SQ. FT.	3	49'-6"
Second Floor Area: 22,460 SQ. FT.		85'-0"
Third Floor Area: 22,460 SQ. FT.		35'-0"

DESIGN LOADS	40 CLASS, 80 CORR.
Minimum Floor Live Loads (psf):	20
Minimum Roof Live Loads (psf):	II
Seismic Design Category:	

Scope of Building Permit - [X] Applicable Box

[ ] SHELL ONLY	Building with no interior finish construction
[X] COMPLETE	Single tenant building (with interior finish construction) or other miscellaneous structure
[ ] MULTI-TENANT	Includes one Shell Building Permit and a separate Interior Finish Permit for each suite

No. of Buildings (1 permit required per bldg.): 1  
No. of Suits (1 permit required per suite): N/A

All construction specified on documents submitted for building permit shall comply with the requirements of the Georgia Building Code (herein noted as "GCCO") including revisions, amendments and appendices to the following codes:

- International Building Code - 2018 Edition with 2020 Georgia State Amendments
- National Electrical Code - 2020
- International Existing Building Code - 2018 Edition with 2021 Georgia State Amendments
- International Plumbing Code - 2018 Edition with 2020 Georgia State Amendments
- International Fuel Gas Code - 2018 Edition with 2020 Georgia State Amendments
- NFPA National Electrical Code - 2017 Edition
- NFPA 101 Life Safety Code - 2015 Edition
- International Fire Code - 2018 Edition with GA Modifications 120-3-3
- Gwinnett County Construction Code - (2015 Edition)
- ADA - 2010 Standards
- Gwinnett County Ordinance for Fire Protection and Life Safety (2021 Edition)
- (As modified by the State Fire Marshal per CH 120-3-3)
- Title 25 OCGA (State Fire Law) & Title 20 OCGA (Access to and Use of Public Facility by Persons with Disabilities)

Plans Reviewed by:  
Atlas Technical Consultants, Inc.  
770.263.5945

#### COVER 1 DRAWING

#### SITE 21 DRAWINGS

- C0.00 SITE WORK COVER SHEET
- C0.01 BOUNDARY & TOPOGRAPHIC SURVEY
- C0.02 BOUNDARY & TOPOGRAPHIC SURVEY
- C1.50 SITE DEMOLITION & REMOVAL PLAN
- C2.00 LAYOUT, STAKING & PAVING PLAN
- C3.00 SITE GRADING PLAN
- C3.10 STORM DRAINAGE PLAN
- C3.20 STORM PIPE PROFILES & WALL ELEVATION
- C4.00 NPDES GENERAL NOTES
- C4.05 NPDES GENERAL NOTES
- C4.10 INITIAL ES & PC PLAN
- C4.20 INTERMEDIATE ES & PC PLAN
- C4.30 FINAL ES & PC PLAN
- C4.40 ES & PC CALCS & VEGETATIVE PRACTICES
- C4.45 ES & PC DETAILS
- C4.46 ES & PC DETAILS
- C7.00 SITE WORK CONSTRUCTION DETAILS
- C7.01 SITE WORK CONSTRUCTION DETAILS
- C7.02 SITE WORK CONSTRUCTION DETAILS
- C7.03 STORM STRUCTURE DETAILS
- C7.04 STORM STRUCTURE DETAILS

#### STRUCTURAL 37 DRAWINGS

- S0.1 STRUCTURAL GENERAL NOTES & SCHEDULES
- S0.2 CONC. & CMU GENERAL NOTES & SCHEDULES
- S0.3 STEEL GENERAL NOTES & SCHEDULES
- S0.4 COMPONENTS & CLADDING & ROOF DECK ATTACHMENT
- S0.5 LOAD MAP PLANS
- S1.1 MAIN LEVEL FOUNDATION PLAN - ADDITION & ADJ. EX.
- S1.2 LEVELS 2 & 3 FLOOR FRAMING PLAN & ADJ. EX.
- S2.1 MAIN LEVEL FOUNDATION PLAN - EX. BLDG. ALTS.
- S2.2 SECOND LEVEL FRAMING PLAN - EX. BLDG. ALTS.
- S2.3 THIRD LEVEL FRAMING PLAN - EX. BLDG. ALTS.
- S2.4 ROOF FRAMING PLAN
- S2.5 EXISTING BUILDING ALTERATION PLANS
- S2.6 EXISTING BUILDING ALTERATION PLANS
- S3.1 STEEL COL. BRG. SECTIONS & DETAILS
- S3.2 FOUNDATION SECTIONS & DETAILS
- S3.3 FOUNDATION SECTIONS & DETAILS
- S3.4 FOUNDATION SECTIONS & DETAILS
- S3.11 SLAB ON GRADE DETAILS
- S3.21 CONC. WALL SECTIONS & DETAILS
- S4.1 CMU WALL DETAILS & SCHEDULES
- S4.2 CMU WALL SECTIONS & DETAILS
- S4.3 CMU WALL SECTIONS & DETAILS
- S4.4 CMU TOP OF WALL DETAILS
- S5.1 COMPOSITE STEEL FRAMING DETAILS
- S5.2 FLOOR FRAMING SECTIONS & DETAILS
- S5.3 FLOOR FRAMING SECTIONS & DETAILS
- S5.4 FLOOR FRAMING SECTIONS & DETAILS
- S6.1 TYP. STEEL FRAMING SECTIONS & DETAILS
- S6.2 TYP. STEEL ROOF FRAMING SECTIONS & DETAILS
- S6.3 ROOF FRAMING SECTIONS & DETAILS
- S6.4 ROOF FRAMING SECTIONS & DETAILS
- S6.5 EX. ROOF ALTERATION FRAMING SECTIONS & DETAILS
- S6.6 1-STORY CONNECTOR FRAMING SECTIONS & DETAILS
- S7.1 STEEL BRACE CONNECTION DETAILS & KEY PLAN
- S7.2 STEEL BRACE ELEVATIONS
- S7.3 STEEL BRACE ELEVATIONS
- S7.4 STEEL BRACE ELEVATIONS

#### ARCHITECTURAL 32 DRAWINGS

- F1.1 FIRE PLAN, PROTECTION NOTES & DETAILS
- F1.2 FIRE PROTECTION NOTES & DETAILS
- F1.3 LIFE SAFETY PLANS
- PH1.1 EXISTING CAMPUS PLAN, PHASING DIAGRAMS
- D1.1 DEMOLITION PLAN, NOTES & DETAILS
- A1.1 OVERALL MAIN LEVEL ADDITION FLOOR PLAN
- A1.2 OVERALL 2ND & 3RD LEVEL ADDITION FLOOR PLAN
- A2.1 MAIN LEVEL ADDITION FLOOR PLAN
- A2.2 SECOND LEVEL ADDITION FLOOR PLAN
- A2.3 THIRD LEVEL ADDITION FLOOR PLAN
- A2.4 GENERAL NOTES, FINISH SCHED., SECTIONS & DETAILS
- A2.5 FLOOR TILE PATTERN PLAN
- A2.6 PLAN DETAILS
- A2.7 PLAN DETAILS
- A3.1 ENLARGED TOILET PLANS, ELEVATIONS & DETAILS
- A3.2 INTERIOR ELEVATIONS - ACOUST. PANELS
- A4.1 DOOR SCHEDULE, ELEVATIONS, NOTES, & DETAILS
- A4.2 DOOR & WINDOW FRAME DETAILS
- A4.3 METAL & ALUM. FRAME ELEVATIONS
- A5.1 EXTERIOR ELEVATIONS, DETAILS
- A5.2 EXTERIOR ELEVATIONS, DETAILS
- A6.1 CASEWORK ELEVATIONS & DETAILS
- A7.1 BUILDING SECTIONS, TYP. WALL SECTION, DETAILS
- A7.2 BUILDING SECTIONS, DETAILS
- A7.3 BUILDING SECTIONS, DETAILS
- A7.4 SECTIONS & DETAILS - BAND AREA
- A8.1 STAIR 5 ENLARGED PLANS, SECTION, DETAILS
- A8.2 STAIR 4 ENLARGED PLANS & DETAILS
- A8.3 STAIR 4 SECTIONS
- A8.4 STAIR 5 SECTIONS
- A9.1 OVERALL ROOF PLAN
- A9.2 ROOF DETAILS & SECTIONS

#### PLUMBING 12 DRAWINGS

- PD0.1 SITE PLAN - PLUMBING - DEMO
- PO.1 SITE PLAN - PLUMBING
- PO.2 SITE UTILITY DETAILS & PROFILES
- P1.1 PARTIAL PLAN MAIN LEVEL - PLUMBING
- P1.2 PARTIAL PLAN SECOND LEVEL - PLUMBING
- P1.3 PARTIAL PLAN THIRD LEVEL - PLUMBING
- P1.4 PARTIAL PLAN EXISTING MAIN LEVEL - PLUMBING
- P2.1 1/4" TOILET PLANS & RISERS
- P2.2 1/4" TOILET PLANS & RISERS
- P2.3 1/4" LAB PLANS & RISERS
- P3.1 PLUMBING LEGEND, SCHEDULES, & DETAILS
- P3.2 PLUMBING, GAS, & SPRINKLER DETAILS

#### MECHANICAL 8 DRAWINGS

- M0.1 DEMOLITION PLAN & DETAIL PLANS - HVAC
- M1.1 MAIN LEVEL ADDITION PLAN - HVAC
- M1.2 SECOND LEVEL ADDITION PLAN - HVAC
- M1.3 THIRD LEVEL ADDITION PLAN - HVAC
- M2.1 HVAC DETAILS, H.P. SYSTEM FLOW DIAGRAM
- M2.2 HVAC DETAILS & SECTIONS
- M3.1 LEGENDS & SCHEDULES
- M4.1 ENERGY MANAGEMENT & AUTO. TEMP. CONTROLS

#### ELECTRICAL 23 DRAWINGS

- DE1.1 MAIN LEVEL DEMO PLAN - LIGHTING
- DE1.2 MAIN LEVEL DEMO PLAN - LIGHTING
- E0.1 SITE PLAN - ELECTRICAL
- E1.1 MAIN LEVEL PLAN ADDITION - LIGHTING
- E1.2 SECOND LEVEL PLAN ADDITION - LIGHTING
- E1.3 THIRD LEVEL PLAN ADDITION - LIGHTING
- E1.4 MAIN LEVEL PARTIAL PLAN - LIGHTING
- E2.1 MAIN LEVEL PLAN ADDITION - POWER
- E2.2 SECOND LEVEL PLAN ADDITION - POWER
- E2.3 THIRD LEVEL PLAN ADDITION - POWER
- E2.4 EXISTING MECH. ROOM - POWER & DEMO
- E2.5 EXISTING BLDGS. MAIN LEVEL - POWER
- E2.6 EXISTING BLDGS. LOWER/ UPPER LEVEL - POWER
- E3.1 MAIN LEVEL FLOOR PLAN - FIRE ALARM
- E3.2 SECOND LEVEL FLOOR PLAN - FIRE ALARM
- E3.3 THIRD LEVEL FLOOR PLAN - FIRE ALARM
- E3.4 EXISTING MAIN LEVEL FLOOR PLAN - FIRE ALARM
- E3.5 EXISTING MAIN & LOWER LEVEL PLANS - FIRE ALARM
- E3.6 EXISTING MAIN & UPPER LEVEL PLANS - FIRE ALARM
- E3.7 EXISTING FIELD HOUSE PLANS - FIRE ALARM
- E4.1 DETAILS, DIAGRAMS, & LEGENDS
- E4.2 PANEL SCHEDULES - POWER RISER DIAGRAM
- E4.3 PANEL SCHEDULES

RCF NOTE: ARCHITECTURAL REFLECTED CEILING PLANS ARE NOT PROVIDED. REFER TO ELEC. LIGHTING PLANS FOR LAYOUTS. COORDIN. W/ HVAC PLANS MIX SERIES.

#### TELECOM (DIVISION 27) - N.I.C. 30 DRAWINGS

- L0.1 SITE PLAN - TELECOM
- L0.2 SITE PLAN NEW FIBER/25 PAIR ROUTE
- L1.0 MAIN LEVEL ADDITION IDF U DATA PLAN
- L1.1 SECOND LEVEL ADDITION IDF V DATA PLAN
- L2.0 RACK DETAILS, RISERS & DETAILS
- L2.1 SYMBOLS & DETAILS
- L2.2 DIV 26 & 27 RESPONSIBILITIES
- L3.0 MAIN LEVEL ADDITION INTERCOM PLAN
- L3.1 SECOND LEVEL ADDITION INTERCOM PLAN
- L3.2 THIRD LEVEL ADDITION INTERCOM PLAN
- L3.3 DIV 27 RESPONSIBILITIES
- L3.4 DIV 27 INTERCOM & DIV 26 RESPONSIBILITIES
- L3.5 INTERCOM SYMBOLS & LEGEND
- L3.6 INTERCOM DETAILS
- L3.7 INTERCOM DETAILS
- L4.0 OVERALL DATA CLOSET SEPARATION
- L4.1 IDF G INTERCOM CABLING
- L4.2 IDF G INTERCOM CABLING
- L4.3 IDF D INTERCOM CABLING
- L4.4 IDF S INTERCOM CABLING
- L4.5 IDF T INTERCOM CABLING
- L4.6 IDF F & IDF E INTERCOM CABLING
- L4.7 IDF B INTERCOM CABLING
- L4.8 IDF B INTERCOM CABLING
- L4.9 IDF N INTERCOM CABLING
- L4.10 IDF N UPPER FLOOR INTERCOM CABLING
- L4.11 IDF J INTERCOM CABLING
- L4.12 IDF H INTERCOM CABLING
- L4.13 IDF L INTERCOM CABLING
- L4.14 IDF I & IDF K INTERCOM CABLING

TOTAL SHEETS: 164 DRAWINGS

**NOTE:**  
GWINNETT COUNTY FIRE MARSHAL INSPECTIONS ARE TO BE SCHEDULED ONLINE AT:  
<https://eca-produccela.com/GWINNETT/welcome.aspx>  
-- 50% = INSPECTIONS OF VERTICAL PENETRATIONS  
-- 80% = INSPECTIONS OF ANY FIRE RATED PARTITIONS, FLOOR OR CEILING, CEILING COVER UP.  
-- 100% = FINAL INSPECTION. ALL SYSTEMS AND EQUIPMENT ARE INSTALLED AND OPERATIONAL.  
ANY INSPECTION REQUESTS MADE BEFORE 2:00 PM WILL BE SCHEDULED FOR THE NEXT BUSINESS DAY.

**NOTE:**  
SEPARATE SUBMITTALS AND REVIEW BY FIRE PLAN REVIEW FOR:  
-- FIRE SPRINKLER  
-- FIRE ALARM SYSTEMS  
-- KITCHEN HOODS  
-- FIRE SUPPRESSION SYSTEMS  
-- RACK STORAGE (PRODUCT HEIGHT OVER 12 FEET)  
-- STORAGE AND/ OR USE OF HAZARDOUS MATERIALS

ALL BUILDINGS DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE FOLLOWING CODES, WHICH INCLUDE REVISIONS, AMENDMENTS AND APPENDICES:

- INTERNATIONAL BUILDING CODE - 2018 EDITION WITH 2020 GEORGIA STATE AMENDMENTS
- INTERNATIONAL FUEL GAS CODE - 2018 EDITION WITH 2020 GEORGIA STATE AMENDMENTS
- INTERNATIONAL MECHANICAL CODE - 2018 EDITION WITH 2020 GEORGIA STATE AMENDMENTS
- INTERNATIONAL PLUMBING CODE - 2018 EDITION WITH 2020 GEORGIA STATE AMENDMENTS
- NATIONAL ELECTRICAL CODE - 2020 EDITION WITH 2021 GEORGIA STATE AMENDMENTS
- INTERNATIONAL ENERGY CONSERVATION CODE - 2018 EDITION WITH 2020 GEORGIA STATE SUPPLEMENTS & AMENDMENTS

**2018 GWINNETT COUNTY ORDINANCE FOR FIRE PREVENTION AND PROTECTION ORDINANCE**  
**2020 OCGA 120-3-3 GEORGIA MINIMUM FIRE SAFETY STANDARDS**  
**2018 INTERNATIONAL FIRE CODE (IFC) (AMENDED BY 120-3-3)**  
**NFPA 101 LIFE SAFETY CODE - 2015 EDITION (AMENDED BY 120-3-3)**  
**2010 ADA STANDARD FOR ACCESSIBLE DESIGN (MISSING GWINNETT FIRE ORDINANCE CODES)**  
**GEORGIA ACCESSIBILITY CODE (CHAPTER) 120-3-20**

**NOTE:**  
SPRINKLER SYSTEM TO BE PROVIDED IN ACCORDANCE W/ THE GWINNETT COUNTY FIRE PROTECTION AND LIFE SAFETY ORDINANCE. SPRINKLER CONTRACTOR SHALL OBTAIN A SPRINKLER SYSTEM PERMIT FROM THE GWINNETT COUNTY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE A SPRINKLER SYSTEM TEST CERTIFICATE AT THE TIME OF FINAL INSPECTION. SPRINKLER SYSTEMS SHALL BE OFF SITE MONITORED AT A CONSTANTLY ATTENDED LOCATION.

**NOTE:**  
PLANS FOR FIRE-PROTECTION SPRINKLER PIPING INCLUDING COMPLETE SEISMIC SUPPORT DETAILS SHALL BE REVIEWED AND APPROVED BY THE FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION FOR COMPLIANCE WITH SBC SECTION 1621.101 AND NFPA 13.

**NOTE:**  
FIRE ALARM SYSTEM TO BE PROVIDED IN ACCORDANCE WITH THE GWINNETT COUNTY FIRE PROTECTION AND LIFE SAFETY ORDINANCE AND NFPA 72. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT FROM THE GWINNETT COUNTY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE A FIRE ALARM SYSTEM TEST CERTIFICATE AT THE TIME OF FINAL INSPECTION.

**NOTE:**  
SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1104.12 OF THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE SHALL BE AVAILABLE AT THE TIME THE BUILDING IS APPROVED FOR OCCUPANCY.

**NOTE:**  
MATERIALS EXPOSED WITHIN PLenums ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT (IBC SECTIONS 716.5 AND 101.4). ALSO IFC 602.2.1.

**DESIGNERS OF RECORD:**  
ARCHITECT:  
JEFFREY G. ROBINSON (GUNNINGHAM FOREHAND MATTHEWS & MOORE, ARCH., INC.)  
2011 MANCHESTER STREET, N.E., ATLANTA, GA 30324 PH: 404-873-2182  
STRUCTURAL ENGINEER:  
JUSTIN P. FULL (FRUIT EBERLY STONE, STRUCTURAL ENGINEERS)  
1892 CENTURY PLACE, SUITE 201, ATLANTA, GA 30348 PH: 404-487-5923  
SITE / CIVIL DESIGN:  
JUSTIN MATTHEW (MATT) TANNER (BREEDLOVE LAND PLANNING, INC.)  
1022 OLD BISHOP ROAD, BISHOP, GA 30612 PH: 770-483-1173  
PLUMBING, MECHANICAL, ELECTRICAL ENGINEER: SPROLLOCK 4 ASSOCIATES, INC.  
BUILDING: MICHAEL W. DILLON (ELECTRICAL) (CLINTON) LYN KELLETT  
MECHANICAL: MICHAEL W. DILLON  
2870 CLAIRMONT ROAD, N.E. SUITE 6122 ATLANTA, GA 30329 PH: 404-633-0245

**NOTE:**  
DO NOT REPRODUCE THESE DRAWINGS OR PROJECT MANUAL WITHOUT THE WRITTEN CONSENT OF GUNNINGHAM FOREHAND MATTHEWS & MOORE ARCHITECTS, INC.

**NOTE:**  
\*\*AC-1 REFERENCES IN THESE DOCUMENTS TO BUILDING SQUARE FOOTAGES ARE FOR OWNER'S PURPOSES ONLY. DO NOT RELY ON THESE NUMBERS FOR BIDDING PURPOSES. CONTRACTOR IS RESPONSIBLE FOR ESTIMATING ALL QUANTITIES.

**NOTE:**  
SIGNS, LOCATION, NUMBER AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.

**NOTE:**  
DO NOT BREAK THESE DOCUMENTS INTO PARTS AND SUB-PARTS. THE GWINNETT COUNTY BOARD OF EDUCATION ASSUMES NO RESPONSIBILITY FOR THE REPARATION OF THESE DOCUMENTS BY ANY ENTITY OF THE CONTRACTING INDUSTRY. EACH CONTRACTING ENTITY SHALL BE RESPONSIBLE FOR ALL THE WORK RELATED TO THEIR TRADES WHERE EVER IT MAY BE SHOWN IN THE CONTRACT DOCUMENTS PACKAGES.

**BUILDING SCOPE INFO:**  
CONSTRUCTION CLASSIFICATION:  
TYPE OF CONSTRUCTION: IIA (SEE FU #1 & #2)  
FULLY SPRINKLERED: YES (NEW ADDITION)  
NO. OF STORIES: 3 (THIRD LEVEL SHELL)

**SQUARE FOOTAGE BREAKDOWN:**

THIRD LEVEL:	4'-22'46" 85'
SECOND LEVEL:	4'-22'46" 85'
MAIN LEVEL:	4'-21'10" 85'
TOTAL BLDG. AREA	4'-11'30" 85'. (SEE NOTE **AC-1 THIS SHEET)
ILLU'S (INSTRUCTIONAL UNITS)	NEW ADDITION: 25 ILLU'S (160 ILLU'S TOTAL FACILITY)

OCCUPANT LOAD CALCULATION: 1187 OCCUP.

OCCUPANCY CLASSIFICATION: EDUCATION  
DESIGN F.T.E.: 800 STUDENT ADDITION  
(125 TOTAL NEW STUDENTS IN FACILITY)

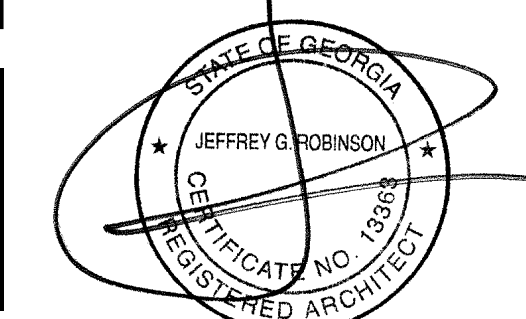
**NOTE:**  
COMBUSTIBLE INTERIOR FINISH PRODUCTS SHALL BE PROVIDED PER THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE 2018 EDITION. CONTRACTOR SHALL PROVIDE VERIFICATION AT THE TIME OF FINAL INSPECTION THAT THE PRODUCTS COMPLY WITH THE REQUIREMENTS.

**GENERAL NOTES & FINISH SCHEDULE ON A2.4**

THE LOCAL FIRE OFFICIAL HAS REVIEWED AND APPROVED A SET OF DOCUMENTS IDENTICAL TO THIS SET OF DOCUMENTS ON 12 / 21 / 21

A CONSTRUCTION PERMIT WILL BE ISSUED TO THE CONTRACTOR AT THE START OF CONSTRUCTION.

(SIGNED) Jeffrey G. Robinson  
ARCHITECT



FACILITY CODE 667-4556

**cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152**

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
ISS. BY: JRM, AP  
REV. BY: JRM, JMT

NO. 15: 594-LD-01-21

**CS**

**PROJECT CONTACTS**

**JOB NAME:** NORTH GWINNETT HIGH SCHOOL ADDITION  
**BLP JOB No.:** 21074  
**OWNER/DEVELOPER:**  
 NAME: GWINNETT COUNTY BOARD OF EDUCATION  
 ADDRESS: 157 OLD PEACHTREE RD NW  
 CITY: ST. JAMES, LAWRENCEVILLE, GA 30043  
 CONTACT: CAREY BELL  
 PHONE: 770-933-4600  
**ARCHITECT:**  
 NAME: CUNNINGHAM FOREHAND MATTHEWS & MOORE ARCHITECTS, INC.  
 ADDRESS: 2011 HANCOCK ST NE  
 CITY: ST. JAMES, ATLANTA, GA 30334  
 CONTACT: JEFF ROBINSON  
 PHONE: 404-873-1700  
 EMAIL: JROBINSON@CFM1.NET  
**SITE DESIGN PROFESSIONAL:**  
 NAME: BREEDLOVE LAND PLANNING, INC.  
 ADDRESS: 1609 OLD BISHOP ROAD  
 CITY: ST. JAMES, SUWANEE, GA 30021  
 CONTACT: JOE MOON  
 PHONE: 770-483-1173  
 EMAIL: JMOON@LANDPLANNING.NET  
**BOUNDARY AND TOPOGRAPHIC INFORMATION PREPARED BY:**  
 NAME: HICKLAND-YOTER & ASSOCIATES  
 ADDRESS: 4174 SILVER PEAK PARKWAY  
 CITY: ST. JAMES, SUWANEE, GA 30024  
 PHONE: 770-531-6500  
 DATED: MAY 05, 2021

**SITE WORK CONSTRUCTION DRAWINGS**

FOR:

**ADDITIONS & ALTERATIONS TO  
 NORTH GWINNETT HIGH SCHOOL  
 20 LEVEL CREEK RD NW, SUWANEE, GA 30024**

PREPARED FOR:

**GWINNETT COUNTY BOARD OF EDUCATION**

**DRAWING ISSUE RECORD**

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
12/21/21	ADDENDUM NO. 3	
01/28/22	POST BID ADDENDUM	
1/28/22	CONFORMED SET	

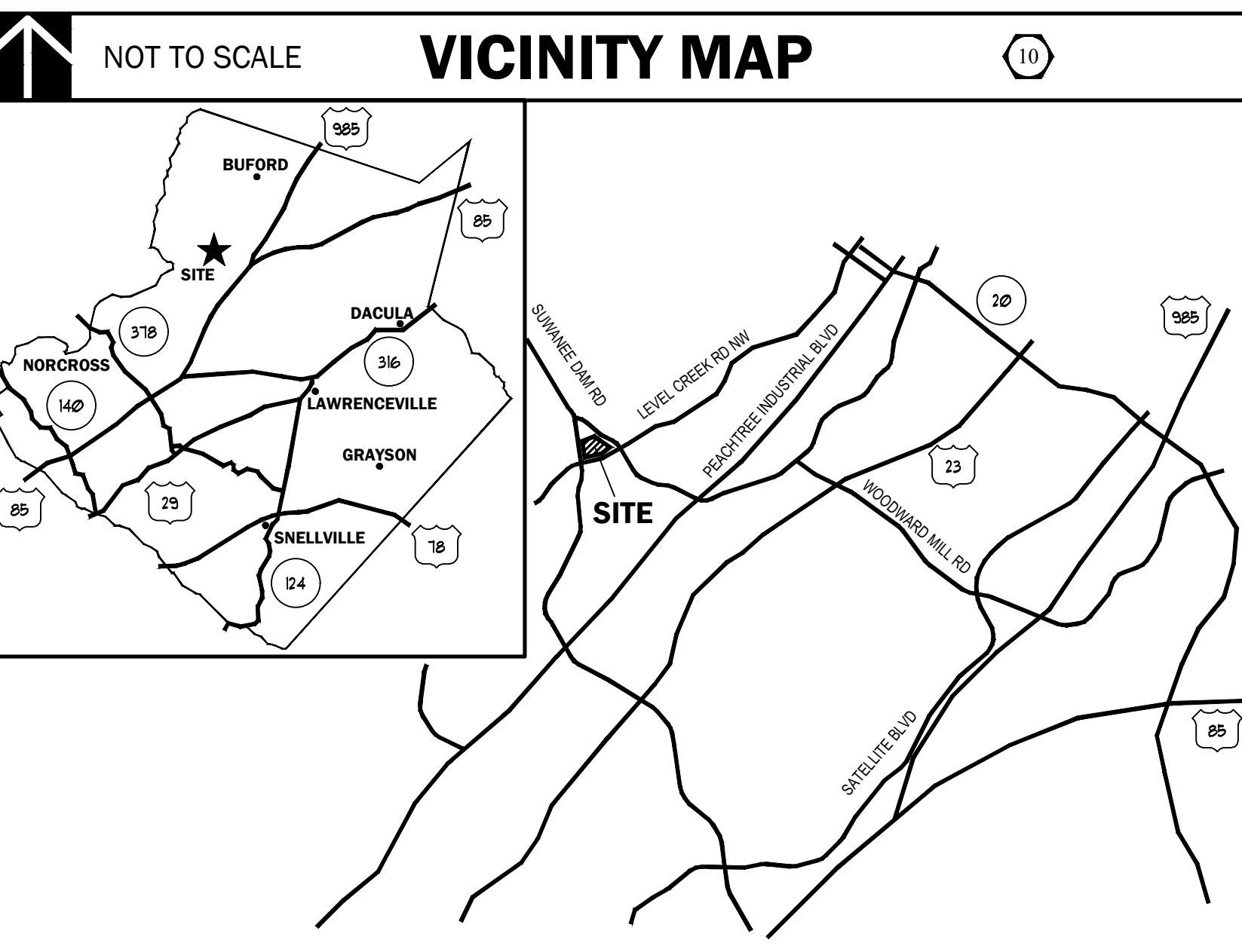
SITE WORK COVER SHEET

ADDITIONS AND ALTERATIONS TO:  
 NORTH GWINNETT HIGH SCHOOL

20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

JOB NO. SHL-D05-15  
 DATE: AUGUST 1, 2020

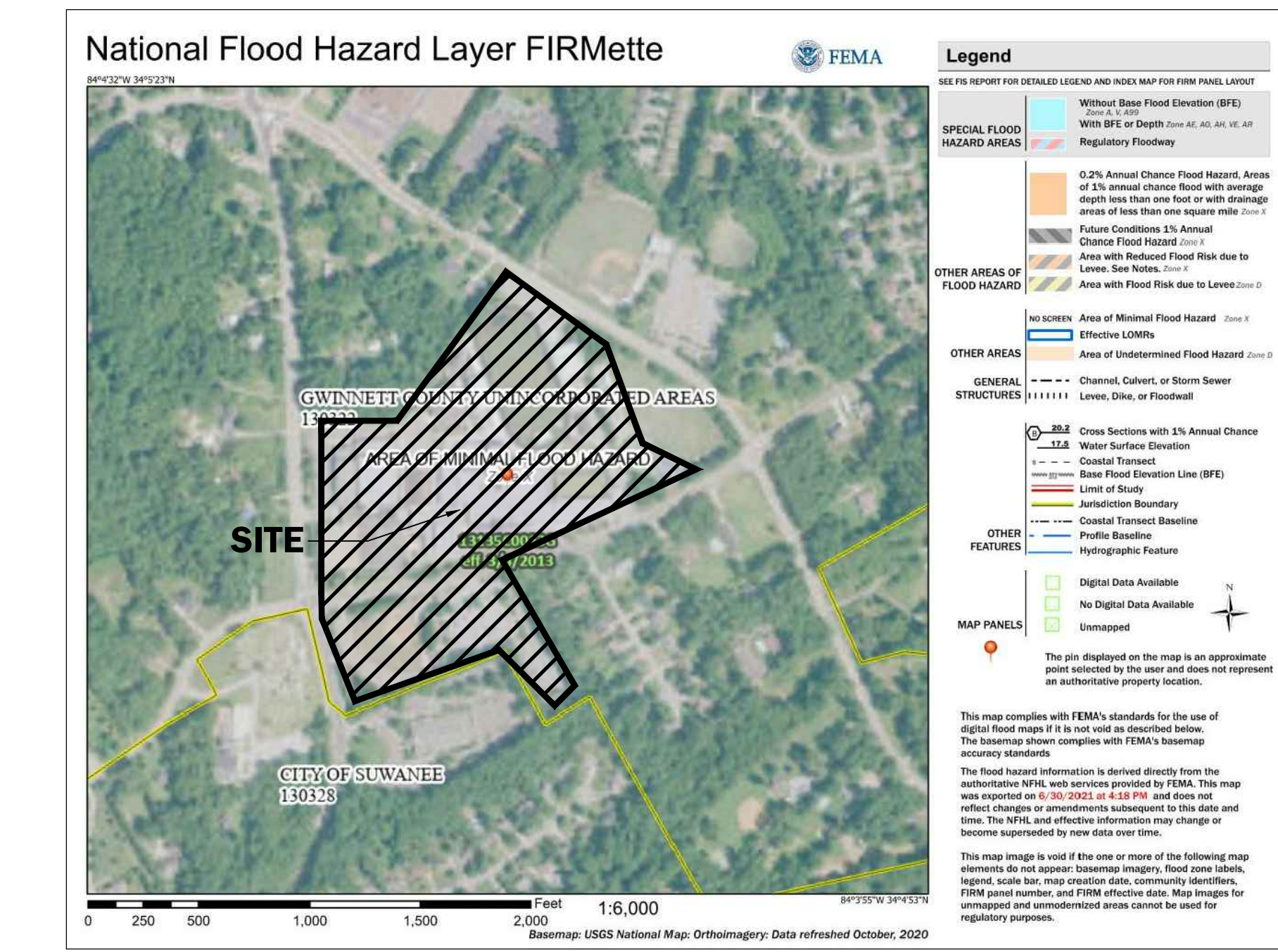
CK. BY JCH  
 DWG. BY JMG



41 THERE ARE NO WETLANDS LOCATED ON OR WITHIN 200' OF THIS SITE.  
 THERE ARE NO STATE WATERS LOCATED ON OR WITHIN 200' OF THIS SITE.

**F.E.M.A. FLOODPLAIN MAP**

FLOODPLAIN HAZARD NOTE: NO PORTIONS OF THIS SITE ARE LOCATED WITHIN ZONE X OF A 100-YEAR FLOOD HAZARD ZONE AS INDICATED ON THE LATEST FIRM PANEL FROM FEMA AS PROVIDED BELOW.



**AS-BUILT REQUIREMENTS**

CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND PAY FOR ALL AS-BUILT INFORMATION AS REQUIRED BY LOCAL AGENCIES. CONTRACTOR SHALL VERIFY AND INCLUDE PRICING FOR REQUIRED AS-BUILT INFORMATION DURING BIDDING PROCESS. AS-BUILT INFORMATION MAY INCLUDE BUT NOT BE LIMITED TO: SANITARY SEWER, DOMESTIC WATER, FIRE LINES, FORCE MAINS, OVERHEAD AND UNDERGROUND POWER, PHONE, GAS, CABLE, STORM AND ALL DETENTION & WATER QUALITY FACILITIES. REQUIRED AS-BUILT INFORMATION SHALL BE PROVIDED AT LEAST THREE WEEKS PRIOR TO APPLICATION FOR FINAL CERTIFICATE OF OCCUPANCY.

AS-BUILT SURVEY OF DETENTION FACILITY SHALL CONTAIN (AT A MINIMUM) THE FOLLOWING:

- ALL CONTOURS AND ELEVATIONS (ABOVE GROUND DETENTION FACILITY).
- DIAMETER, LENGTH, TYPE OF MATERIAL, ALL INVERTS OF HEADERS, BARRELS, OUTLET CONTROL STRUCTURES AND OUTLET PIPES (UNDERGROUND DETENTION FACILITY).
- BOTTOM OF BASIN ELEVATION IN FRONT OF OUTLET DEVICE AND OPPOSITE END OF BASIN TO VERIFY POSITIVE DRAINAGE.
- TOP OF WALL OR DAM ELEVATION TO VERIFY FREEBOARD.
- WIDTH OF DAM (IF APPLICABLE) AT TOP OF DAM.
- MAXIMUM FONDING ELEVATION AND LIMITS OF FONDING.
- LOCATION OF FOND IN RESPECT TO PROPERTY LINES, ROAD, RIGHT-OF-WAYS AND OTHER EASEMENTS.
- REGISTERED SURVEYOR'S SEAL.
- DATE OF AS-BUILT SURVEY.
- DETAIL OF OUTLET DEVICE SHOWING ALL ELEVATIONS AND DIMENSIONS.

AS-BUILT HYDROLOGIC STUDY SHALL CONTAIN THE FOLLOWING:

- APPROPRIATE GEORGIA REGISTERED PROFESSIONAL SEAL.
- DATE OF STUDY.
- ALLOWABLE RELEASE RATES AS INDICATED IN THE ORIGINAL DESIGN FOR ALL STORMS.
- DESIGN VOLUMES AS INDICATED IN THE ORIGINAL STUDY FOR ALL STORMS.
- CALCULATIONS SHOWING THE ACTUAL 2, 10, 25, AND 100 YEAR RELEASE RATES, FONDING ELEVATIONS AND VOLUMES.
- DETAIL OF OUTLET DEVICE SHOWING ALL ELEVATIONS AND DIMENSIONS.
- DRAINAGE MAP.

**GENERAL NOTES**

ACCESS TO ALL BUILDINGS DURING CONSTRUCTION SHALL BE MAINTAINED AND OPEN TO EMERGENCY VEHICLES AT ALL TIMES THROUGH THE USE OF EXISTING OR TEMPORARY ROADS, DRIVES, AND/OR WALLS.

BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS DEEMED NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION ON GWINNETT COUNTY ROADS.

CUT AND FILL SLOPES SHALL NOT EXCEED 3:1 V.

ALL SPOT ELEVATIONS IN PARKING AREAS ARE AT THE BASE OF THE FACE OF CURBS, UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL STAKE ALL BUILDING CORNERS AND HAVE APPROVAL FROM THE ARCHITECT BEFORE COMMENCING THE CONSTRUCTION OF ANY FOOTINGS.

ALL CONSTRUCTION SHALL MEET OR EXCEED THE MINIMUM STANDARDS OF GWINNETT COUNTY.

ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET SHALL BE REFERRED TO THE ARCHITECT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

CONTRACTOR SHALL VERIFY ALL BENCHMARKS BEFORE BEGINNING ANY WORK.

TREE SAVE AREA(S) SHALL BE PROTECTED BY THE CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL TREES WITHIN AREAS TO BE GRADED UNLESS NOTED TO BE SAVED.

ALL STORM PIPE AND STORM STRUCTURES SHALL BE IN ACCORDANCE WITH GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

DISTURBED AREAS SHALL BE GRADED WITH TEMPORARY VEGETATIVE COVER AS PER THE TECHNICAL SPECIFICATIONS, AS SOON AS THE CONSTRUCTION PHASE PERMITS.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES.

ALL GRADES SHOWN ARE FINISHED GRADES.

ALL PERIMETER SILT BARRIERS SHALL BE INSTALLED PRIOR TO ANY GRADING ACTIVITY. CONTRACTOR SHALL INSTALL ALL REMAINING SILT BARRIERS AT THE EARLIEST OPPORTUNITY PERMITTED BY THE CONSTRUCTION PHASE. CONTRACTOR SHALL INSPECT AND REPAIR OR REPLACE ANY DAMAGED PORTION OF EACH SILT BARRIERS DAILY. CONTRACTOR SHALL REMOVE ACCUMULATED DEPOSITS OF SILT AND SPREAD OVER SITE. CONTRACTOR SHALL REMOVE SILT BARRIERS WHEN GRADING IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.

ALL STORM STRUCTURES SHALL HAVE A TEMPORARY SEDIMENT TRAP AS PER DETAIL, INSTALLED THE DAY OF INSTALLATION OF SAID STRUCTURE.

CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT IN DETENTION BASIN(S) AT A TIME IN WHICH THE ACCUMULATION REACHES EIGHTEEN (18) INCHES AND AT THE END OF CONSTRUCTION, ONLY WHEN ALL DISTURBED AREAS HAVE BEEN FULLY STABILIZED THROUGH PERMANENT VEGETATION OR PAVING.

ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY MARKED AND IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

SIGNS (LOCATION NUMBER AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN.

**CIVIL SHEET INDEX**

#	SHEET #	SHEET NAME
1.	00.00	SITE WORK COVER SHEET
2.	00.01	LIMITED TOPOGRAPHIC SURVEY
3.	00.02	LIMITED TOPOGRAPHIC SURVEY
4.	C1.50	SITE DEMOLITION PLAN
5.	C2.00	SITE LAYOUT & PAVING PLAN
6.	C3.00	SITE GRADING PLAN
7.	C3.10	STORM DRAINAGE PLAN
8.	C3.20	STORM PIPE PROFILES & WALL ELEVATIONS
9.	C4.00	NPDES NOTES
10.	C4.05	NPDES NOTES
11.	C4.10	ES&PC - INITIAL PLAN
12.	C4.20	ES&PC - INTERMEDIATE PLAN
13.	C4.30	ES&PC - FINAL PLAN
14.	C4.40	ES&PC VEGETATIVE PRACTICES
15.	C4.45	ES&PC CALCUS
16.	C4.46	ES&PC DETAILS
17.	C7.00	SITWORK CONSTRUCTION DETAILS
18.	C7.01	SITWORK CONSTRUCTION DETAILS
19.	C7.02	SITWORK CONSTRUCTION DETAILS
20.	C7.03	SITWORK CONSTRUCTION DETAILS
21.	C7.04	SITWORK CONSTRUCTION DETAILS

**PROJECT DATA**

PROJECT ADDRESS: 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024

ZONING: GCA  
 PARCELS: T87 015  
 PROPOSED USE: SCHOOL  
 ADDITION TO HIGH SCHOOL

TOTAL AREA OF SITE: 0.74 AC  
 DISTURBED AREA: 0.74 AC

CONSTRUCTION EXIT COORDINATES: LATITUDE: 34.06605, LONGITUDE: -84.06541

**GWINNETT COUNTY NOTES:**

1. IT IS THE OWNER'S/DEVELOPER'S RESPONSIBILITY TO BE IN COMPLIANCE WITH APPLICABLE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND CLEAN WATER ACT REQUIREMENTS.

2. GWINNETT COUNTY ASSUMES NO RESPONSIBILITY FOR OVERFLOW OR EROSION OF NATURAL OR ARTIFICIAL DRAINS BEYOND THE EXTENTS OF THE STREET RIGHT-OF-WAY, OR FOR THE EXTENSION OF GULCHES BEYOND THE FRONT YARD ON THE APPROVED AND RECORDED PLAN. GWINNETT COUNTY DOES NOT ASSUME THE RESPONSIBILITY AND THE MAINTENANCE OF PIPES IN DRAINAGE EASEMENTS BEYOND THE CITY RIGHT-OF-WAY.

3. WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND 2) THE APPROPRIATE PLANS SHEET (DOES / DOES NOT CHECK APPROPRIATE BOX) INDICATE AREAS ON UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND 3) IF THAT LAND DISTURBANCE OF PROTECTED WETLAND SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION (SECTION 404) PERMIT HAS BEEN OBTAINED.

**BMPs FOR IMPAIRED STREAM**

2. A LARGE SIGN (4' X 8'; SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGNS SHALL BE VISIBLE FROM A PUBLIC ROADWAY, IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOT HAS BEEN SUBMITTED.

3. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION III.C.1 OF THE NPDES PERMIT.

4. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 14 HOUR PERIOD, RECORDED THE EXCEPTIONS SPECIFIED IN SECTION IV.D.2.A OF THE NPDES PERMITS.

5. CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS (REFER TO SPECIFICATIONS).

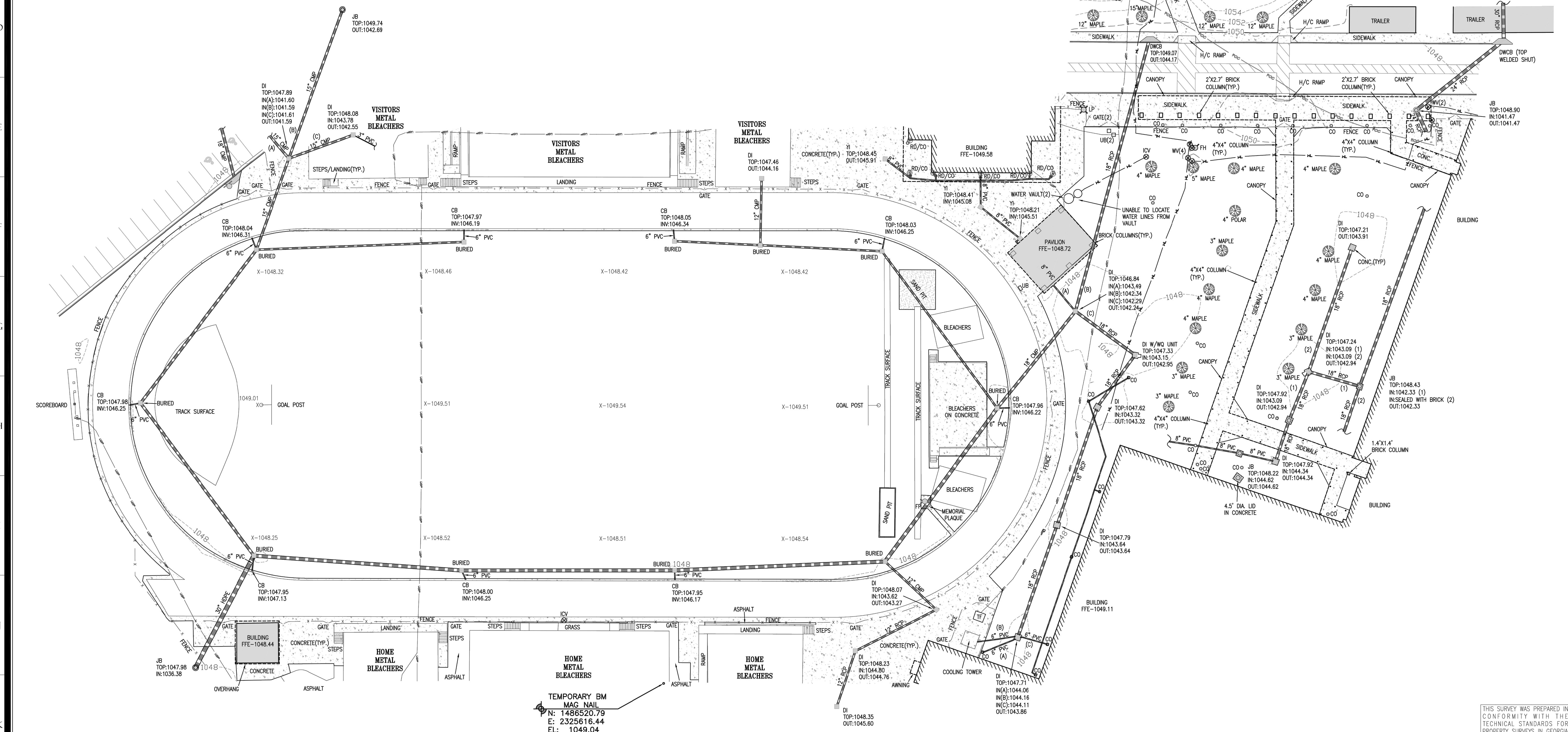
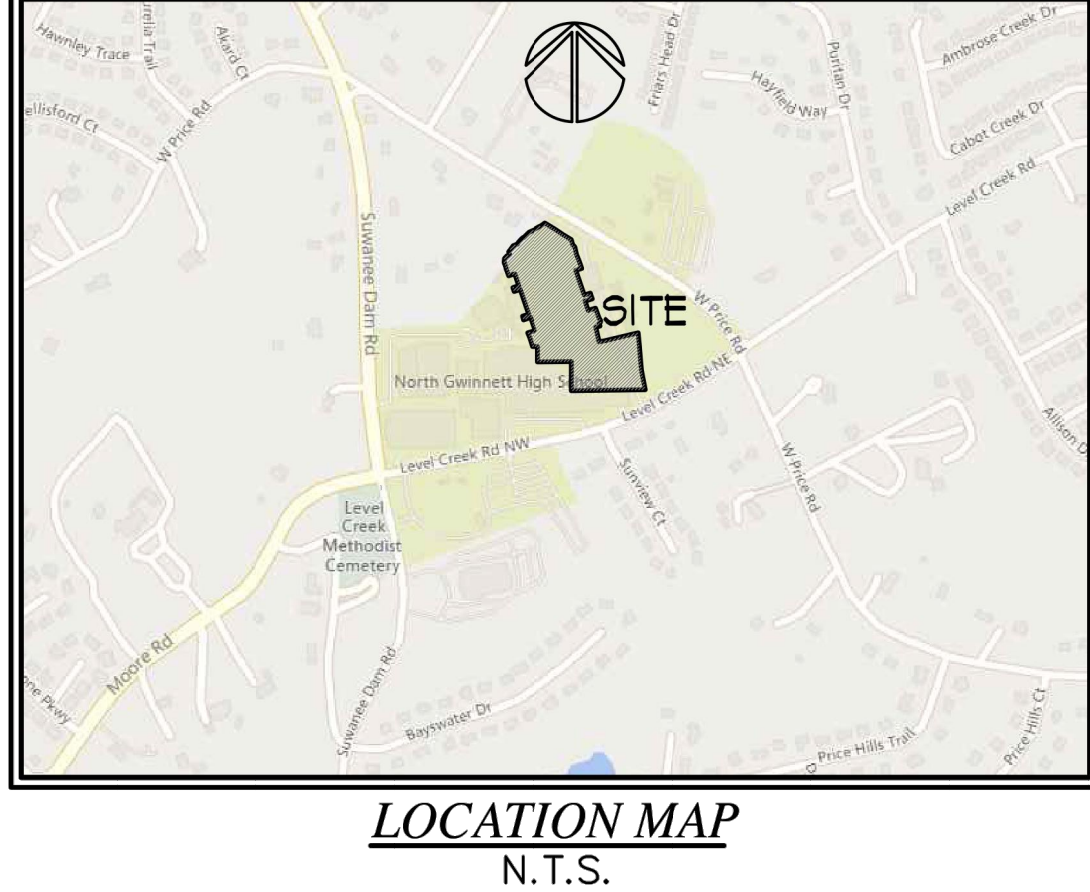
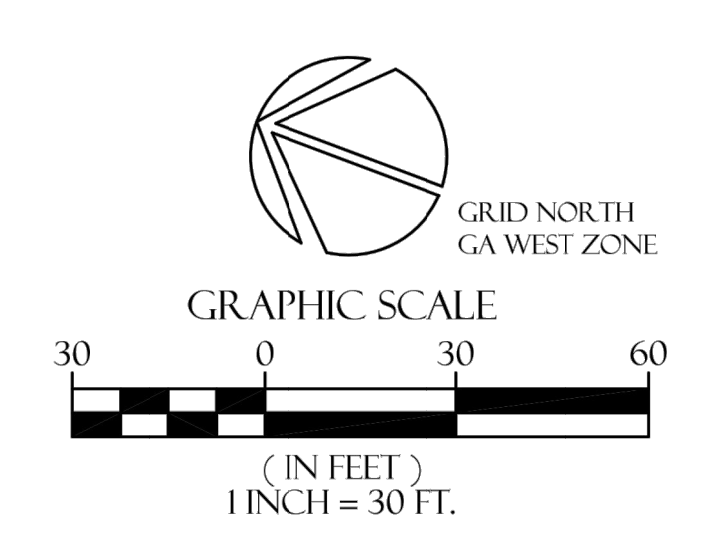
NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

LEGEND	ABBREVIATIONS
UTILITY POLE (PP)	INV INVERT ELEVATION
GUY WIRE	CMP CORRUGATED METAL PIPE
LIGHT POLE (LP)	RCP REINFORCED CONCRETE PIPE
FLAG POLE (FP)	HDPE HIGH DENSITY POLYETHYLENE
FIRE HYDRANT (FH)	DIP DUCTILE IRON PIPE
SIGN	TFE FINISHED FLOOR ELEVATION
JUNCTION BOX (JB)	TEM TEMPORARY BENCHMARK
DROP INLET (DI)	GM GAS METER
WATER VALVE (WV)	GV GAS VALVE
ROOF DRAIN (RD)	FDC FIRE DEPARTMENT CONNECTION
CLEAN OUT (CO)	UCGM UNDERGROUND CABLE MARKER
WATER METER (WM)	# ILM GAS LINE MARKER
SANITARY MANHOLE	WLM WATER LINE MARKER
IRON PIN FOUND	UB UTILITY BOX
CONCRETE	PB PLAT BOOK
WALL	DB DEED BOOK
HEAD WALL (HW)	N/F NOW OR FORMERLY
FENCE LINE	SSMH SANITARY SEWER MANHOLE
TREE LINE	DWCB DOUBLE WING CATCH BASIN
HANDICAP RAMP	SWCB SINGLE WING CATCH BASIN
CURB AND GUTTER	TD TRENCH DRAIN
	FES FLARED END SECTION
	CONC CONCRETE
	EJB ELECTRICAL JUNCTION BOX
	PM POWER METER
	SB SWITCH BOX
	TF TRANSFORMER
	ICV IRRIGATION CONTROL VALVE
	H/C HEATING AND COOLING UNIT
	YI YARD INLET
	CB CATCH BASIN
	PI PEDESTAL

UTILITY LINE LEGEND	
	UNDERGROUND POWER LINE
	WATER LINE
	COMMUNICATION LINE

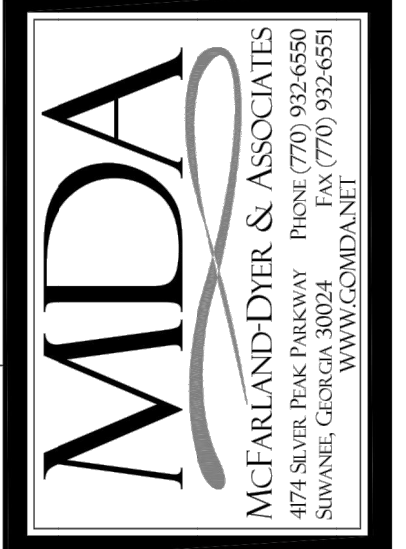
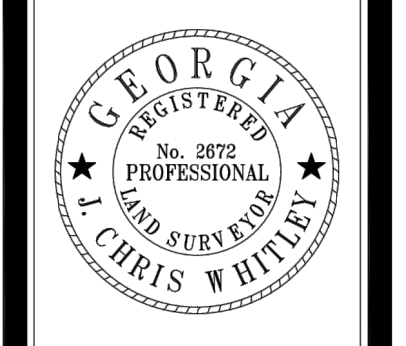
**GENERAL NOTES:**

- FIRM MAP NUMBER 13135C00235, EFFECTIVE 03/04/2013 INDICATES THAT THIS TRACT OF LAND DOES NOT LIE IN AN AREA DESIGNATED AS HAVING FLOOD HAZARD.
- THIS PLAN OF SURVEY MAKES NO WARRANTY OR GUARANTEE AS TO THE EXISTENCE OF ANY EASEMENTS OF ANY TYPE, NO ABSTRACT OR TITLE SEARCH WAS PERFORMED BY THE SURVEYOR TO DISCOVER THE EXISTENCE OF ANY EASEMENTS.
- THE PREMISES SHOWN AND DESCRIBED HEREON ARE SUBJECT TO ANY EXISTING EASEMENTS, RIGHTS-OF-WAY, RESTRICTIVE COVENANTS, ZONING REGULATIONS, AND/OR SETBACK LINES WHETHER OR NOT THEY MAY BE SHOWN ON THE PLAN HEREON OR WHETHER OR NOT RECORDED IN THE PUBLIC RECORDS. NO LIABILITY IS ASSUMED BY THE UNDERSIGNED FOR ANY LOSS THAT MAY BE ASSOCIATED WITH THE EXISTENCE OF ANY EASEMENTS OR RESTRICTION ON THE USE OF THE PROPERTY.
- ELEVATIONS DETERMINED BY A TRIMBLE R6 GPS, MODEL #4 AND ELEVATIONS ADJUSTED TO GEOID03 = NAVD83.
- SITE ADDRESS: 23 LEVEL CREEK ROAD SUWANEE, GA 30024
- PARCEL ID: 7287 015
- MCFARLAND-DYER & ASSOCIATES DID NOT PERFORM A BOUNDARY SURVEY ON THE SUBJECT PROPERTY.



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DATE	DESCRIPTION
03/22/2021	LIMITED TOPOGRAPHIC SURVEY
05/07/2021	ADDITIONAL TOPO AREA

DATE	DESCRIPTION
03/22/2021	LIMITED TOPOGRAPHIC SURVEY
05/07/2021	ADDITIONAL TOPO AREA

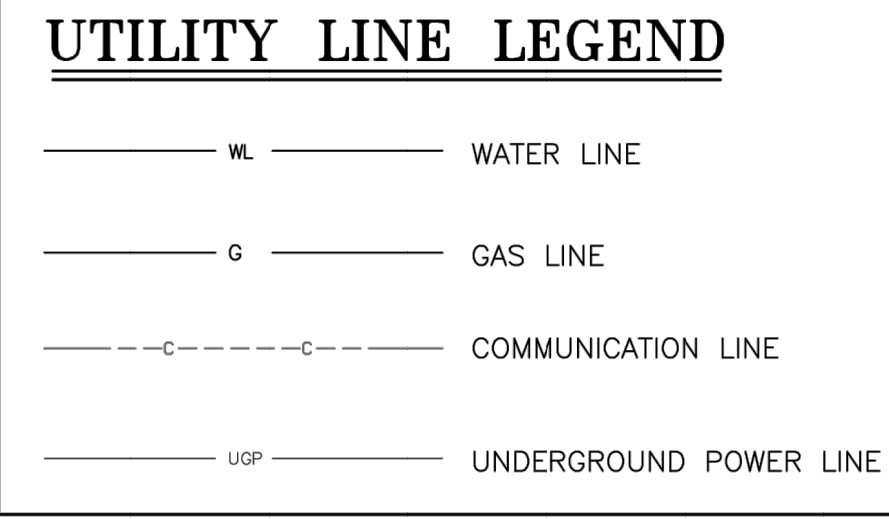
**LIMITED TOPOGRAPHIC SURVEY**  
GWINNETT COUNTY PUBLIC SCHOOLS  
(NORTH GWINNETT HIGH SCHOOL - FOOTBALL FIELD)

LL 288, 7TH DISTRICT  
GWINNETT COUNTY, GEORGIA  
SHEET 1 OF 1

TOPOGRAPHIC/BOUNDARY SURVEY

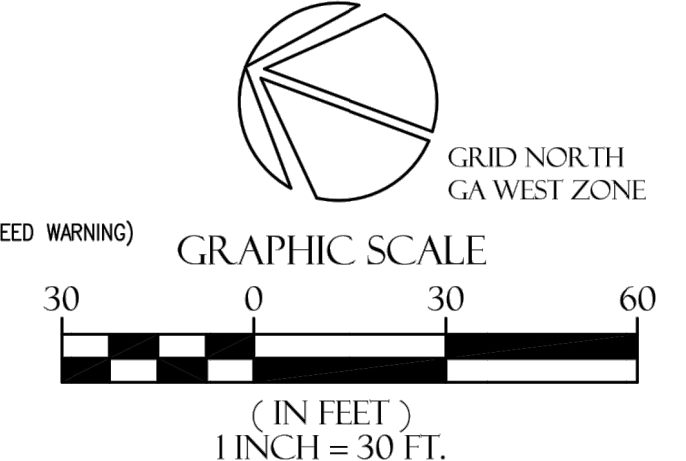
TREE CHART

TREE #	TREE SIZE	TREE TYPE	TREE #	TREE SIZE	TREE TYPE	TREE #	TREE SIZE	TREE TYPE	TREE #	TREE SIZE	TREE TYPE
3312	12"	MAPLE	4491	19"	PINE	4746	16"	PINE	5338	21"	PINE
3313	15"	MAPLE	4492	12"	WILD CHERRY	4748	12"	PINE	5339	12"	PINE
3314	15"	MAPLE	4493	19"	PINE	4749	15"	PINE	5385	18"	PINE
3315	12"	MAPLE	4494	15"	PINE	4750	13"	PINE	5387	14"	PINE
3325	15"	MAPLE	4495	15"	PINE	4751	13"	PINE	5388	13"	PINE
3678	14"	MAPLE	4496	18"	PINE	4752	13"	PINE	5390	13"	PINE
3679	16"	MAPLE	4497	15"	PINE	4760	12"	PINE	5392	15"	PINE
3682	13"	MAPLE	4498	15"	PINE	4761	13"	PINE	5393	15"	PINE
3684	17"	MAPLE	4499	13"	PINE	4769	12"	PINE	5396	15"	PINE
3685	13"	MAPLE	4501	12"	OAK	4819	14"	PINE	5398	16"	PINE
3686	15"	MAPLE	4502	12"	OAK	4820	12"	PINE	5200	18"	PINE
4390	19"	PINE	4506	14"	PINE	4821	12"	PINE	5206	12"	PINE
4393	12"	PINE	4507	16"	PINE	4822	12"	PINE	5207	14"	PINE
4394	15"	PINE	4671	13"	PINE	4823	14"	PINE	5209	15"	PINE
4395	15"	PINE	4680	17"	PINE	4854	16"	PINE	5210	14"	PINE
4396	16"	PINE	4681	12"	PINE	4855	15"	PINE	5211	14"	PINE
4397	15"	PINE	4683	12"	PINE	4881	12"	PINE	5213	13"	PINE
4402	13"	PINE	4684	13"	PINE	4885	12"	PINE	5214	15"	PINE
4425	16"	PINE	4686	12"	PINE	4888	13"	PINE	5215	15"	PINE
4426	14"	PINE	4687	12"	PINE	4889	12"	PINE	5218	13"	PINE
4427	17"	PINE	4688	15"	PINE	4890	13"	PINE	5227	19"	PINE
4428	13"	PINE	4695	13"	PINE	4942	13"	PINE	5230	15"	PINE
4430	14"	PINE	4696	14"	PINE	4943	12"	PINE	5231	14"	PINE
4431	12"	PINE	4731	12"	PINE	4944	12"	PINE	5234	15"	PINE
4432	16"	PINE	4732	13"	PINE	4945	13"	PINE	5236	20"	PINE
4484	13"	PINE	4733	14"	PINE	4946	14"	PINE	5239	16"	PINE
4488	23"	PINE	4734	14"	PINE	5014	15"	BRADFORD PEAR	5242	19"	PINE
4489	15"	PINE	4736	16"	PINE	5129	22"	PINE	5245	17"	PINE
4490	26"	PINE	4745	16"	PINE	5137	14"	PINE	5246	12"	PINE

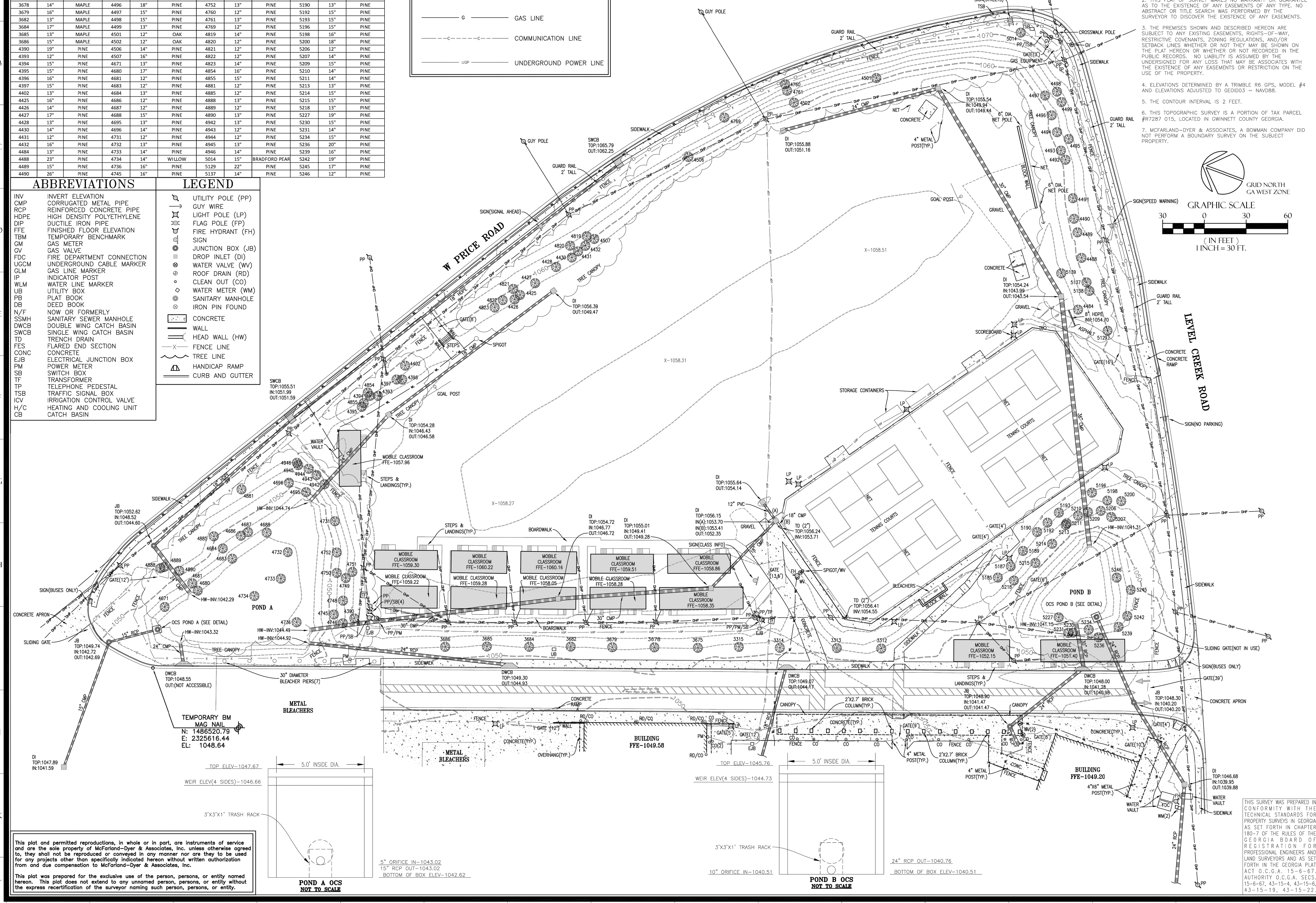


GENERAL NOTES:

1. FIRM MAP NUMBER 13135C0126F, EFFECTIVE 09/29/2006, INDICATES THAT THIS TRACT DOES NOT LIE IN AN AREA DESIGNATED AS HAVING FLOOD HAZARD.
2. THIS PLAT OF SURVEY MAKES NO WARRANTY OR GUARANTEE AS TO THE EXISTENCE OF ANY EASEMENTS OF ANY TYPE. NO ABSTRACT OR TITLE SEARCH WAS PERFORMED BY THE SURVEYOR TO DISCOVER THE EXISTENCE OF ANY EASEMENTS.
3. THE PREMISES SHOWN AND DESCRIBED HEREON ARE SUBJECT TO ANY EXISTING EASEMENTS, RIGHTS-OF-WAY, RESTRICTIVE COVENANTS, ZONING REGULATIONS, AND/OR SETBACK LINES WHETHER OR NOT THEY MAY BE SHOWN ON THE PLAT HEREON OR WHETHER OR NOT RECORDED IN THE PUBLIC RECORDS. NO LIABILITY IS ASSUMED BY THE UNDERSIGNED FOR ANY LOSS THAT MAY BE ASSOCIATED WITH THE EXISTENCE OF ANY EASEMENTS OR RESTRICTION ON THE USE OF THE PROPERTY.
4. ELEVATIONS DETERMINED BY A TRIMBLE R6 GPS, MODEL #4 AND ELEVATIONS ADJUSTED TO GEOID03 ~ NAVD83.
5. THE CONTOUR INTERVAL IS 2 FEET.
6. THIS TOPOGRAPHIC SURVEY IS A PORTION OF TAX PARCEL #R7287 015, LOCATED IN GWINNETT COUNTY GEORGIA.
7. MCFARLAND-DYER & ASSOCIATES, A BOWMAN COMPANY DID NOT PERFORM A BOUNDARY SURVEY ON THE SUBJECT PROPERTY.



ABBREVIATIONS	LEGEND
INV	INVERT ELEVATION
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
DIP	DUCTILE IRON PIPE
FFE	FINISHED FLOOR ELEVATION
TEBM	TEMPORARY BENCHMARK
GM	GAS METER
GV	GAS VALVE
FDC	FIRE DEPARTMENT CONNECTION
LUCM	UNDERGROUND CABLE MARKER
GLM	GAS LINE MARKER
IP	INDICATOR POST
WLM	WATER LINE MARKER
UB	UTILITY BOX
PB	PLAT BOOK
DB	DEED BOOK
N/F	NOW OR FORMERLY
SSMH	SANITARY SEWER MANHOLE
DWCB	DOUBLE WING CATCH BASIN
SWCB	SINGLE WING CATCH BASIN
TD	TRENCH DRAIN
FES	FLARED END SECTION
CONC	CONCRETE
EJB	ELECTRICAL JUNCTION BOX
PM	POWER METER
SB	SWITCH BOX
TF	TRANSFORMER
TP	TELEPHONE PEDESTAL
TSB	TRAFFIC SIGNAL BOX
ICV	IRRIGATION CONTROL VALVE
H/C	HEATING AND COOLING UNIT
CB	CATCH BASIN



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9/28/21

McFarland-Dyer & Associates  
Professional Engineer  
Chris W. Hill  
Surveyor  
No. 1770 (2018)  
State of Georgia

DATE	DESCRIPTION
09-28-2021	LIMITED TOPOGRAPHIC SURVEY

FOR: GWINNETT COUNTY PUBLIC SCHOOLS (NORTH GWINNETT HIGH SCHOOL)

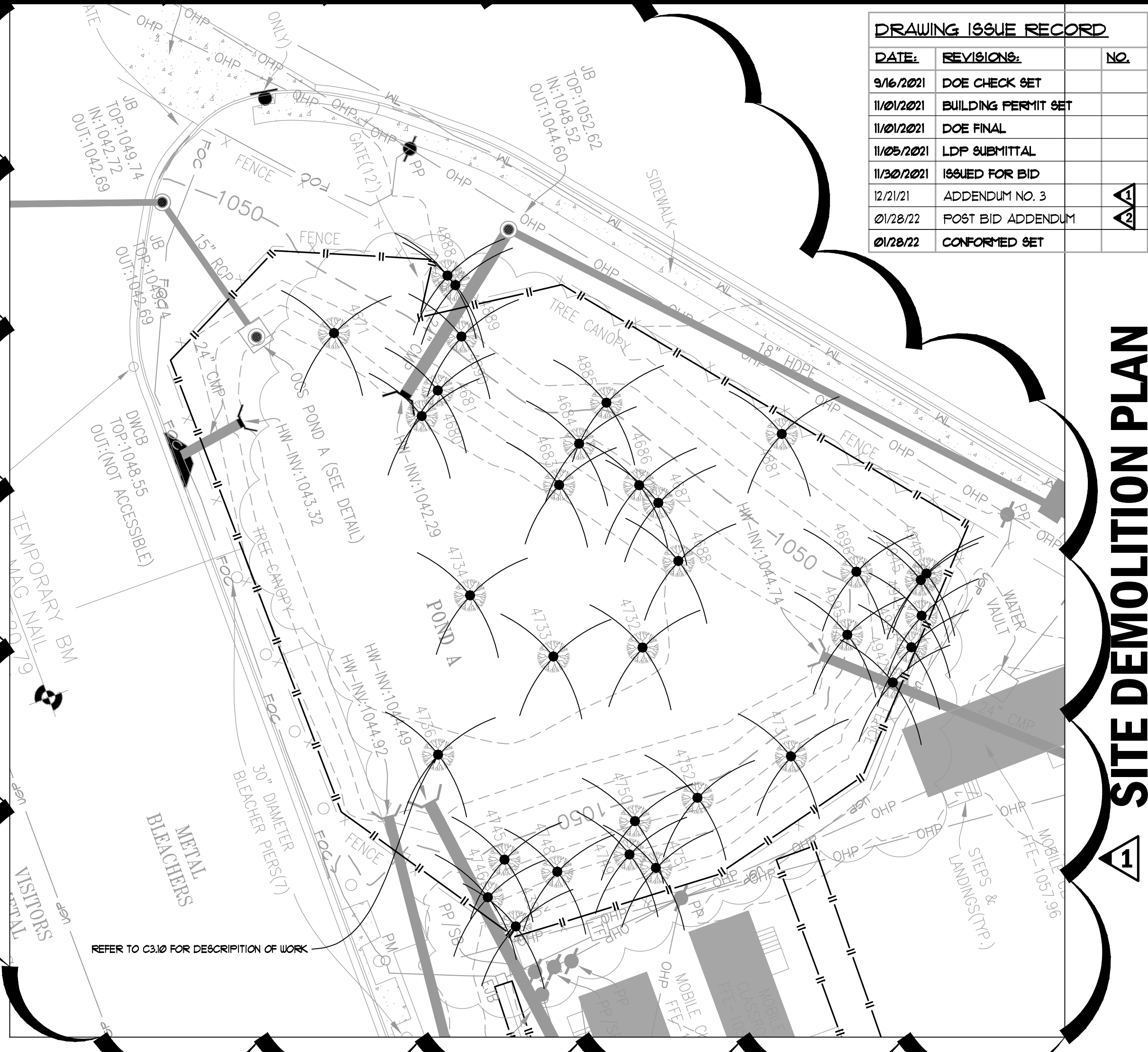
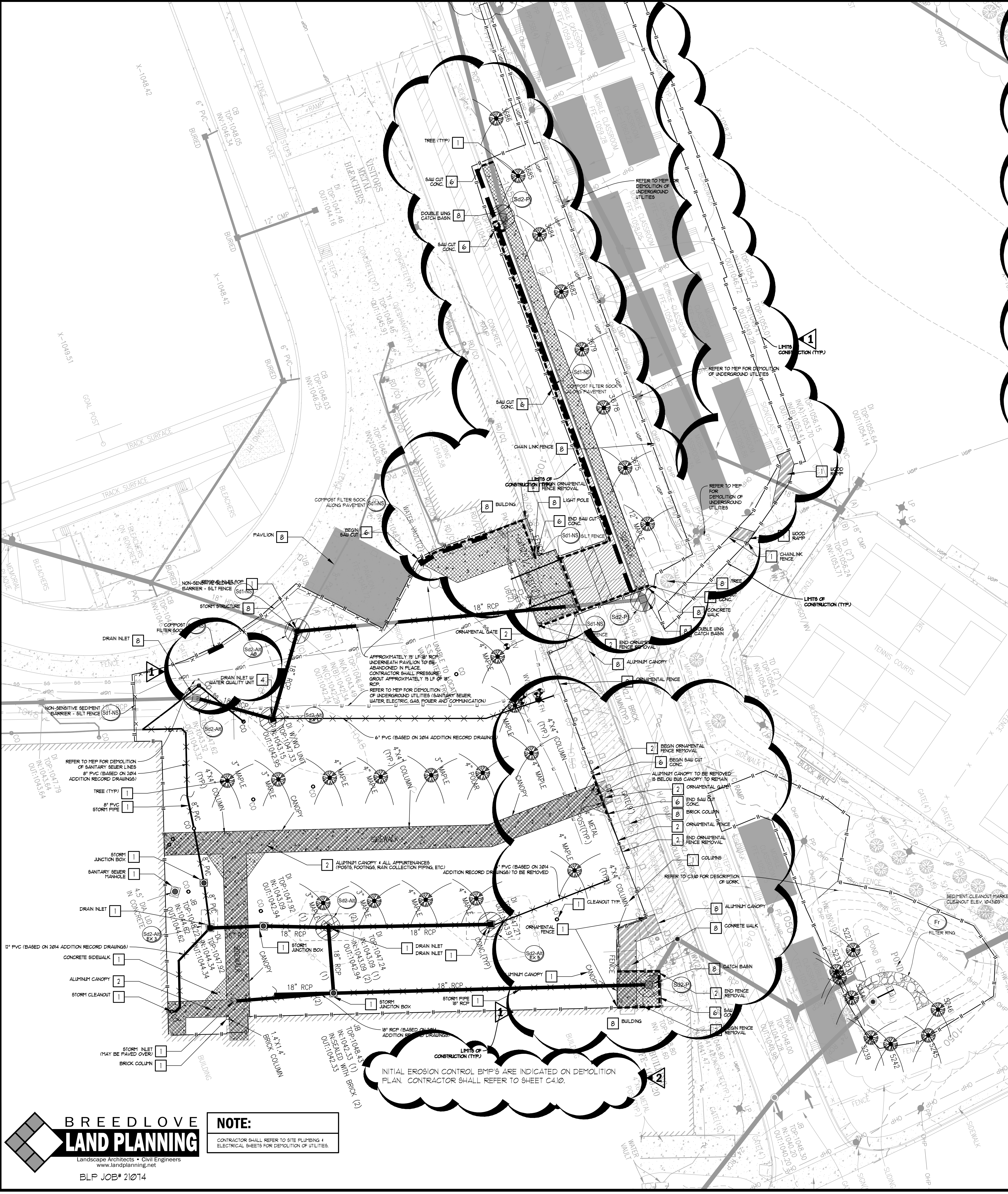
DATE: 09-28-2021  
CHECKED BY: M.P.  
SURVEYED BY: K.B.

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MCFARLAND-DYER & ASSOCIATES, INC.

LIMITED TOPOGRAPHIC SURVEY

SHEET 1 OF 1

TOPOGRAPHIC/BOUNDARY SURVEY



DRAWING ISSUE RECORD		
DATE	REVISION	NO.
3/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
12/21/21	ADDENDUM NO. 3	
01/28/22	POST BID ADDENDUM	
01/28/22	CONFORMED SET	AA

**ADDITIONS AND ALTERATIONS TO:**  
**NORTH GUINNETT HIGH SCHOOL**  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GUINNETT COUNTY SCHOOLS  
 GUINNETT COUNTY, GEORGIA

**amingham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE: August 1, 2020  
 JOB NO.: BHL-19-09-19  
 DWG. BY: JRG  
 CK. BY: JCT

C1.50

**GENERAL DEMOLITION NOTES**

- CONTRACTOR SHALL REFER TO PHASING SECTION OF THE SPECIFICATIONS. ALL DEMOLITION SHALL BE COORDINATED WITH PHASING.
- WORK DONE AHEAD OF SEQUENCE OR FOR TEMPORARY PROVISIONS SHALL HAVE EXISTING DISTURBED SURFACES PATCHED TO MATCH ORIGINAL CONDITIONS UNTIL NEW CONSTRUCTION REPLACES SUCH REPAIRS OR MODIFICATIONS.
- CONTRACTOR SHALL PROVIDE NECESSARY EROSION CONTROL MEASURES DURING THE DEMOLITION PHASE OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL ITEMS REMOVED FROM SITE. DISPOSAL SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES. THERE SHALL BE NO ON-SITE BURIAL OF DEBRIS GENERATED FROM CONSTRUCTION ACTIVITIES.
- UNLESS OTHERWISE NOTED, EXISTING ITEMS WITHIN THE PROJECT LIMITS WILL BE REPAIRED IN PLACE AND PROTECTED FROM DAMAGE DURING THE CONSTRUCTION PERIOD. ANY FACILITIES THAT ARE DAMAGED WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- CONTRACTOR SHALL SAVE & PROTECT ALL BUILDINGS, FOUNDATIONS, CONCRETE FENCES, PLAY EQUIPMENT, ETC. ON THE PROPERTY UNLESS OTHERWISE NOTED. DAMAGE SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- CONTRACTOR SHALL SAVE AND PROTECT ALL EXISTING STORM DRAINAGE STRUCTURES UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL FENCING WITHIN LIMITS OF WORK UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE WITH OWNER THE REMOVAL ANY EXISTING LANDSCAPE MATERIALS OR SITE FEATURES WHICH THE OWNER ELECTS TO RETAIN.
- CONTRACTOR SHALL ACCOMPLISH DEMOLITION WITHIN THE DRIP LINE OF EXISTING SPECIEN TREES BY UTILIZING HAND LABOR PROCEDURES WITHOUT DAMAGING THE ROOT SYSTEM OF TREE.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN SAFE, CLEARLY MARKED PEDESTRIAN ACCESS ROUTES TO ALL BUILDING ENTRANCES THROUGHOUT ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.
- LIMITS OF CURB AND GUTTER DEMOLITION ARE SUBJECT TO THE NEAREST CONSTRUCTION JOINT.
- CURB AND GUTTER DEMOLITION SHALL BE REPAIRED TO THE NEAREST CONSTRUCTION JOINT.
- CONTRACTOR SHALL PROVIDE ABRASION SAWS CUTS PRIOR TO DEMOLITION ADJACENT TO ALL PAVEMENT AREAS TO BE SAVED/REMOVED TO PROVIDE A CLEAN EDGE THAT RESULT IN ADDITIONAL DEMOLITION AND NEW PAVEMENT INSTALLATION PAID FOR AND EXECUTED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OR RELOCATION (AT HIS/HER EXPENSE) OF EXISTING ITEMS THAT CONFLICT WITH NEW CONSTRUCTION UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL AND/OR RELOCATION OF ALL ITEMS WHERE NEW PAVING IS LOCATED.
- CONTRACTOR SHALL REPAIR TO EXISTING CONDITIONS ANY PAVES OR SITE FEATURE DEPOSED OR DAMAGED DURING INSTALLATION OF NEW RAIN LEADERS, UTILITIES OR OTHER NEW SITE FEATURES.
- CONTRACTOR SHALL RELOCATE OR ADJUST AS NECESSARY ALL EXISTING UTILITY APPURTENANCES (VALVES, LINES, POWER, TELEPHONE AND CABLE LINES THAT SERVE THE EXISTING BUILDINGS WITH THE APPROPRIATE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE THE REMOVAL AND OR RELOCATION OF EXISTING GAS AND WATER METER VALVES, LINES, POWER, TELEPHONE AND CABLE LINES THAT SERVE THE EXISTING BUILDINGS WITH THE APPROPRIATE UTILITY COMPANIES.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING IMMEDIATELY ANY DAMAGE TO AN ACTIVE UTILITY.
- REFER TO SITE UTILITY PLANS FOR RELOCATION, REMOVAL, ABANDONMENT, AND/OR MODIFICATION OF ALL EXISTING PIPING FEATURES ON SITE.

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**BMPs FOR IMPAIRED STREAM**

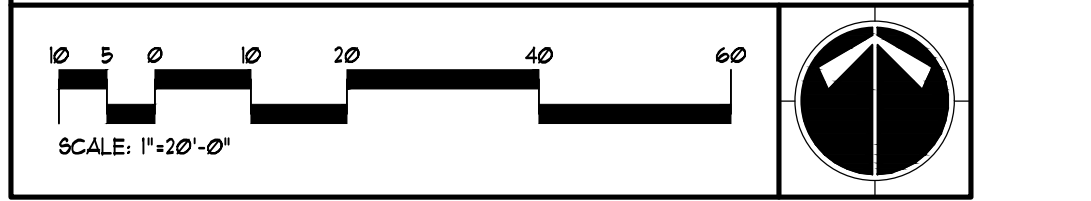
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- USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION 11.01 OF THE NPDES PERMIT.
- CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.25 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION 11.02(A) OF THE NPDES PERMIT.
- CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS (REFER TO SPECIFICATIONS).

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

**DEMOLITION LEGEND**

- TO BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- TO BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TURNED OVER TO THE OWNER FOR REUSE
- TO BE REMOVED BY OWNER
- RELOCATE AS NECESSARY (RAIN) AND/OR ADJUST AS NECESSARY AT THE CONTRACTOR'S EXPENSE
- TO BE REMOVED, RELOCATED, MODIFIED OR ADJUSTED BY OTHERS
- SAW CUT LINE
- TO BE REMOVED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TURNED OVER FOR REUSE AT THIS SITE
- SAVE & PROTECT DURING CONSTRUCTION
- CONCRETE WALKS, CONCRETE STAIRS, CONCRETE DRIVEWAYS, CONCRETE DRIVEWAYS (DEMOLISH & REMOVE PAVEMENTS TO SUBGRADE)
- ASPHALT PAVEMENT REMOVAL LIMITS (DEMOLISH & REMOVE PAVEMENTS TO SUBGRADE)
- GRAVEL REMOVAL LIMITS (DEMOLISH & REMOVE TO SUBGRADE)
- BUILDING STRUCTURE DEMOLITION LIMITS (CONTRACTOR SHALL COORDINATE DEMOLITION OF EXISTING UTILITIES WITH APPLICABLE PERMIT)
- LIMITS OF CONSTRUCTION ACTIVITY
- TREE REMOVAL AREA
- TREE SAVE AREA
- EXISTING TREE TO BE REMOVED

**GRAPHIC SCALE & ORIENTATION**



**CALL BEFORE YOU DIG**



GEORGIA LAW MANDATES THAT, BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY USING EMBEST ON 1-800-843-8383 OR BY CALLING 811 OR 1-800-252-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

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 www.landplanning.net  
 BLP JOB# 21074

**NOTE:**  
 CONTRACTOR SHALL REFER TO SITE PIPING & ELECTRICAL SHEETS FOR DEMOLITION OF UTILITIES.

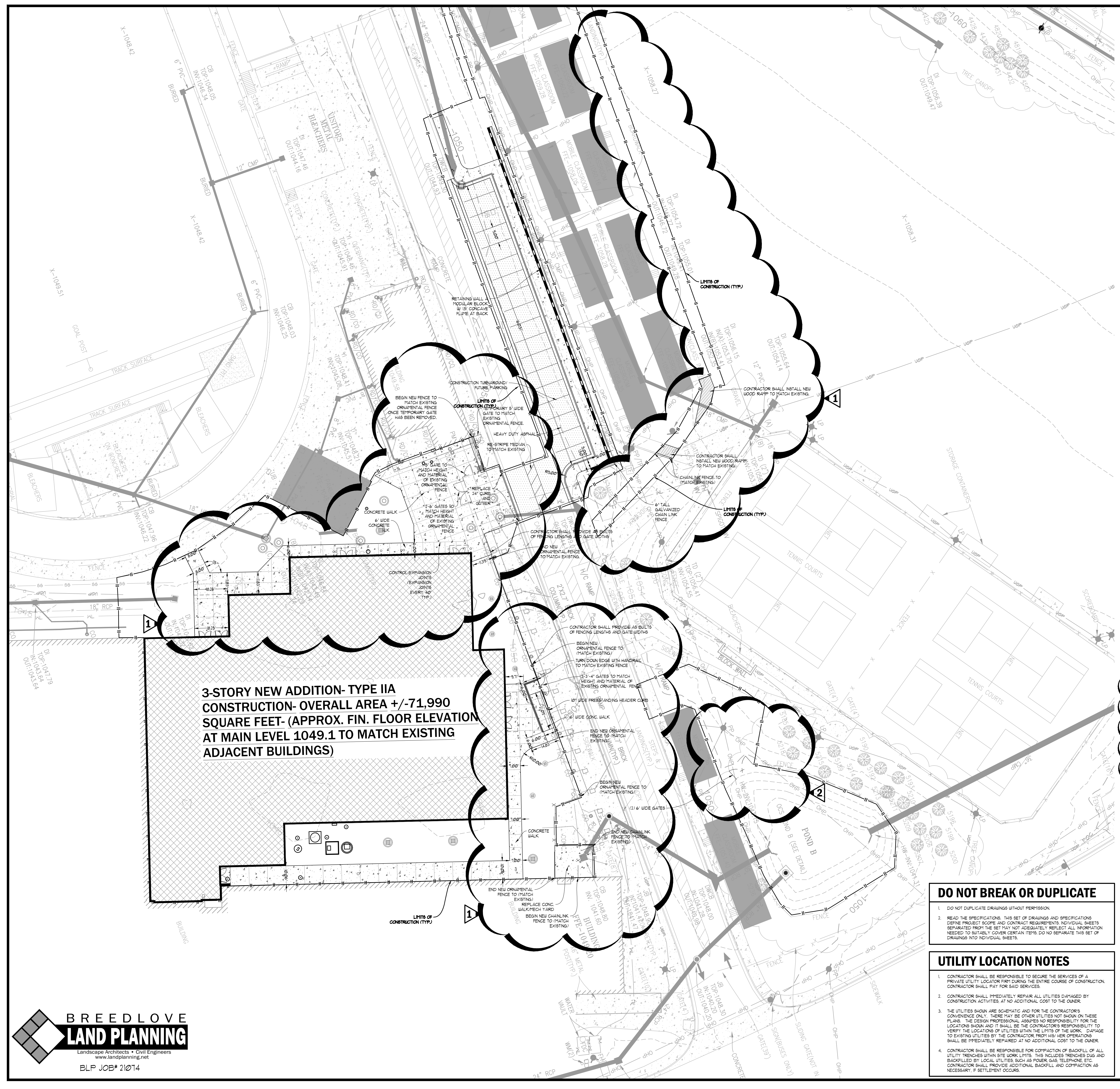
INITIAL EROSION CONTROL BMPs ARE INDICATED ON DEMOLITION PLAN. CONTRACTOR SHALL REFER TO SHEET C4.10.

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
3/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
12/21/21	APPENDUM NO. 3	
01/03/22	APPENDUM NO. 4	AA
01/28/22	CONFORMED SET	

ADDITIONS AND ALTERATIONS TO:  
**NORTH GWINNETT HIGH SCHOOL**  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

**cunningham, forehand, matthews & moore**  
 architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152  
 DATE: August 1, 2020  
 JOB NO.: BHL-19-09-19  
 DWG. BY: JRQ  
 OK. BY: JCI  
**C2.00**

**SITE LAYOUT & PAVING PLAN**



**3-STORY NEW ADDITION- TYPE IIA  
 CONSTRUCTION- OVERALL AREA +/-71,990  
 SQUARE FEET- (APPROX. FIN. FLOOR ELEVATION  
 AT MAIN LEVEL 1049.1 TO MATCH EXISTING  
 ADJACENT BUILDINGS)**

**GWINNETT COUNTY FIRE NOTES**

- DURING CONSTRUCTION AND FOR PERMANENT ACCESS, ROADWAYS CONSTRUCTED OF AN ALL LEATHER SURFACE, CAPABLE OF SUPPORTING 15,000 POUNDS GROSS WEIGHT SHALL BE PROVIDED PER INTERNATIONAL FIRE CODE CHAPTER 5, SECTION 503.2, APPENDIX D, 2001, 2006 EDITION. (GROUND AND FLOOR SURFACES) ALONG ACCESSIBLE ROUTES AND WALKS, RAMPS, STAIRS, AND CURB RAMPS SHALL BE STABLE, FIRM, SLIP-RESISTANT, AND SHALL COMPLY WITH RULE 50-3-30-14.8 GEORGIA ACCESSIBILITY CODE.

**BMPs FOR IMPAIRED STREAM**

- A LARGE SIGN (4' X 8', SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY, IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOT HAS BEEN SUBMITTED.
- USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION III.D.1 OF THE NPDES PERMIT.
- CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF .05 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECORDING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.2.G OF THE NPDES PERMIT.
- CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. (REFER TO SPECIFICATIONS).

**GENERAL LAYOUT NOTES**

- PROPOSED BUILDING USE: HIGH SCHOOL.
- CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE ARCHITECT FOR CLARIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DISCREPANCIES WHICH ARE NOT REPORTED.
- CONTRACTOR SHALL STAKE ALL BUILDING CORNERS AND OBTAIN ARCHITECTS APPROVAL BEFORE POURING ANY FOOTINGS.
- REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.
- ALL DIMENSIONS ARE TO THE FACE OF CURBS AND FACE OF WALLS.
- ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
- CURB AND GUTTER RADIUS ARE (R) UNLESS OTHERWISE NOTED.

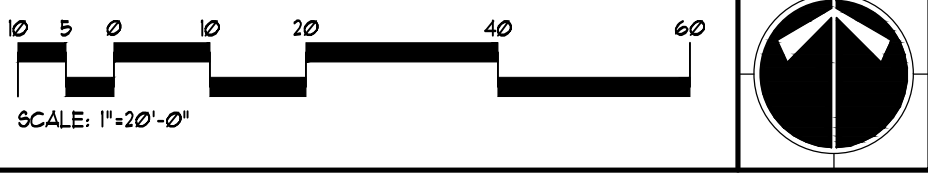
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**GRAPHIC SCALE & ORIENTATION**



**CALL BEFORE YOU DIG**



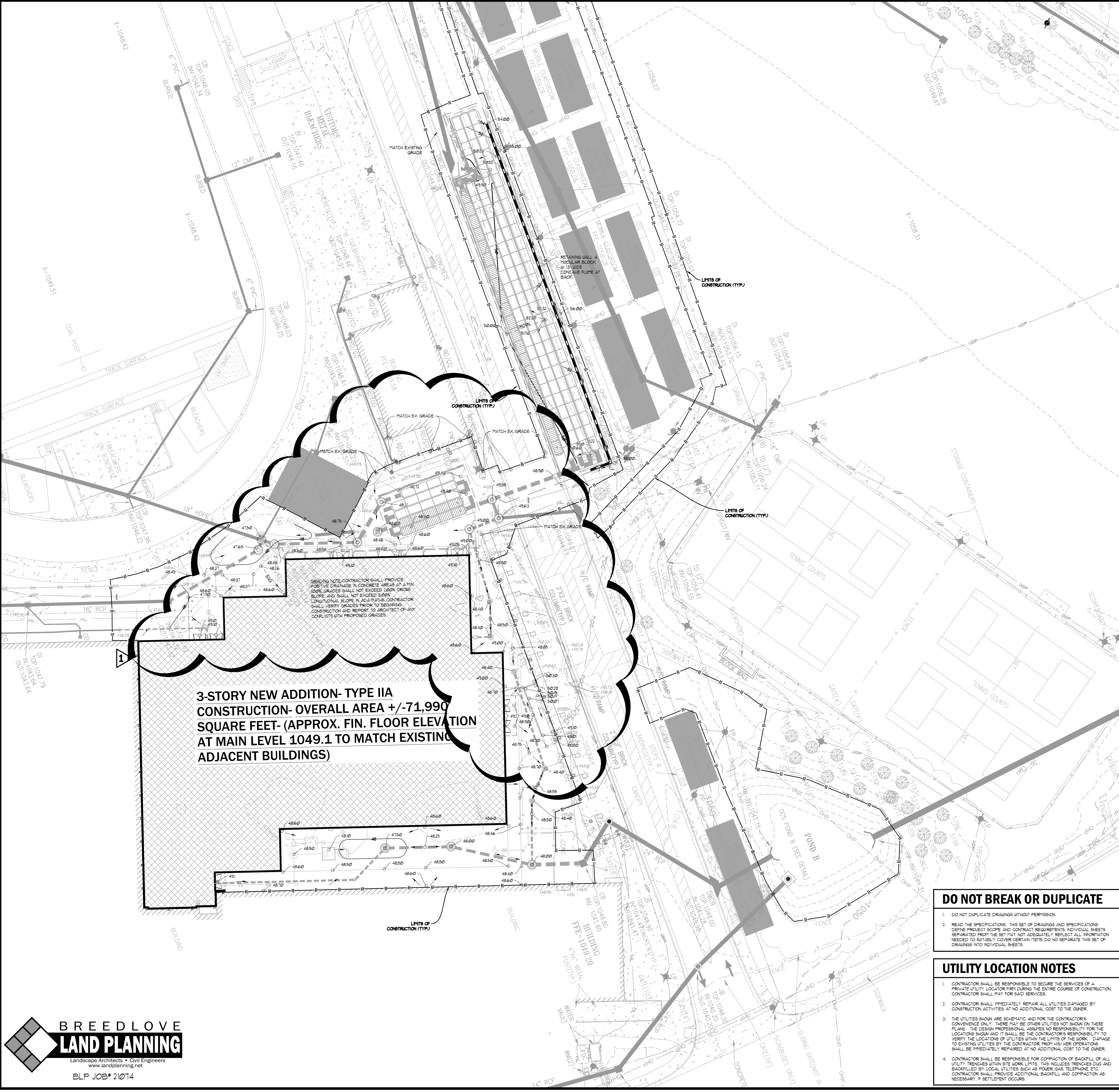
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DRAWING ISSUE RECORD		
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12/21/21	ADDENDUM NO. 3	
01/28/22	CONFORMED SET	A

**SITE GRADING PLAN**

ADDITIONS AND ALTERATIONS TO:  
**NORTH GUINNETT HIGH SCHOOL**  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GUINNETT COUNTY SCHOOLS  
 GUINNETT COUNTY, GEORGIA

DATE: August 1, 2020  
 JOB NO.: BHL-19-09-19  
 DWN BY: JRG  
 OK BY: JCI



**3-STORY NEW ADDITION- TYPE IIA  
 CONSTRUCTION- OVERALL AREA +/- 71,990  
 SQUARE FEET- (APPROX. FIN. FLOOR ELEVATION  
 AT MAIN LEVEL 1049.1 TO MATCH EXISTING  
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**BMPs FOR IMPAIRED STREAM**

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E. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION II.D.1. OF THE NPDES PERMIT.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.6.a. OF THE NPDES PERMIT.

G. CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. (REFER TO SPECIFICATIONS)

NOTE: REFER TO CADS FOR IMPAIRED STREAM MAP

**INSUFFICIENT FILL**

INSUFFICIENT FILL MATERIAL: IF QUANTITY OF GRADING MATERIAL IS INSUFFICIENT TO PROVIDE FINISHED GRADE ELEVATIONS INDICATED ON DRAWINGS, CONTRACTOR SHALL OBTAIN ADDITIONAL FILL MATERIAL OF SPECIFIED QUALITY FROM AN OFF-SITE SOURCE. OBTAINING, HAULING, PLACEMENT, COMPACTON, AND STABILIZATION OF ADDITIONAL FILL MATERIAL SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN OBTAINING FILL MATERIAL.

**EXCESS CUT**

EXCESS CUT MATERIAL: IF QUANTITY OF GRADING MATERIAL IS IN EXCESS OF QUANTITIES NECESSARY TO PROVIDE FINISHED GRADE ELEVATIONS INDICATED ON DRAWINGS, EXCESS MATERIAL SHALL BE HAULED OFF SITE. HAULING AND DISPOSAL OF EXCESS MATERIAL SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF EXCESS MATERIAL.

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**GRAPHIC SCALE & ORIENTATION**

**CALL BEFORE YOU DIG**

**GEORGIA811**  
 www.Georgia811.com

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**BREEDLOVE  
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 Landscape Architects • Civil Engineers  
 www.landplanning.net  
 BLP JOB# 21074

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

C3.00

MATCHLINE 'A'

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NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

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11/05/2021	ISSUED FOR BID	
12/21/21	APPENDUM NO. 3	
01/03/22	APPENDUM NO. 4	
01/28/22	CONFORMED SET	AA

## STORM DRAINAGE PLAN

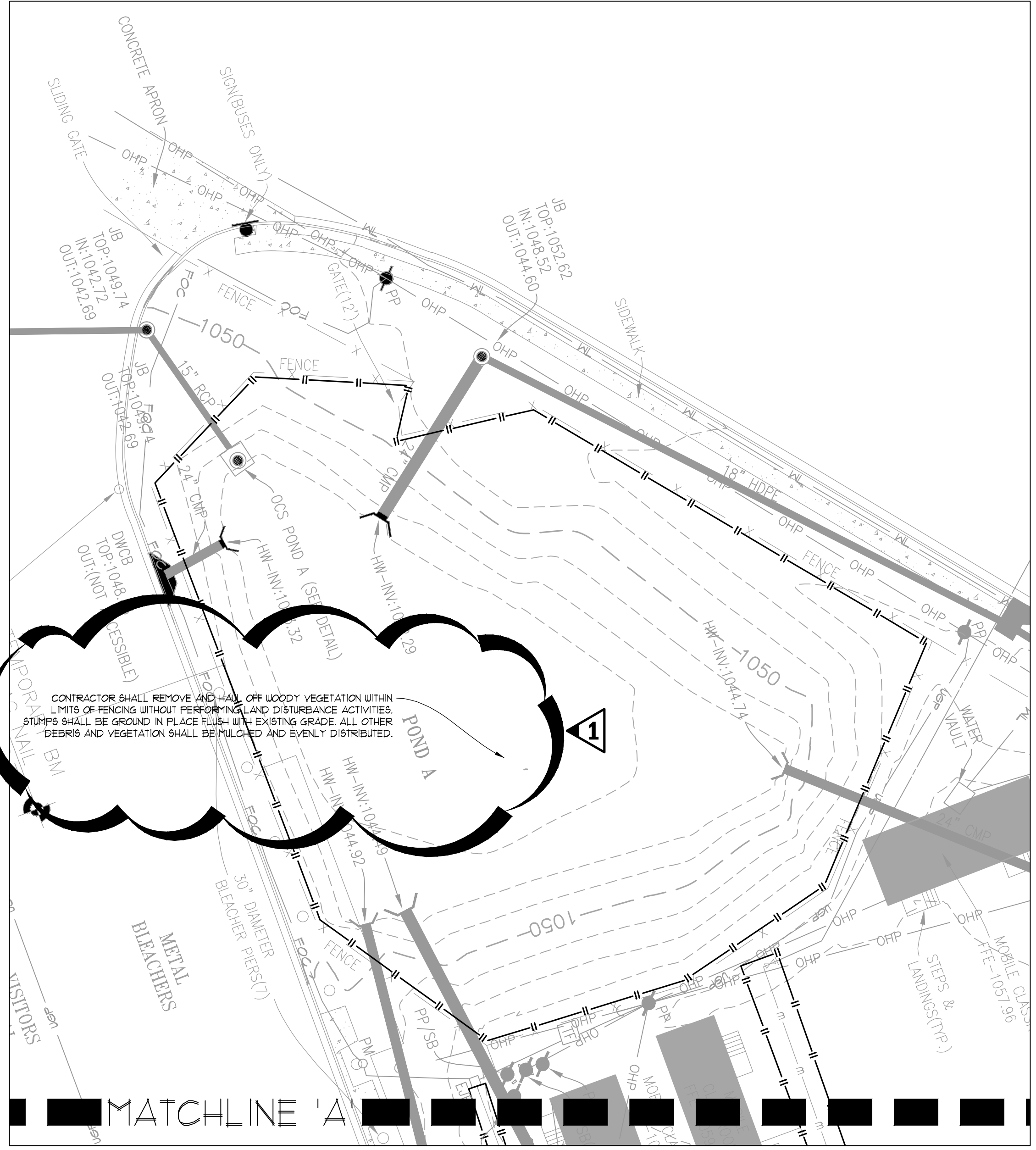
ADDITIONS AND ALTERATIONS TO:  
 NORTH GUINNETT HIGH SCHOOL  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GUINNETT COUNTY SCHOOLS  
 GUINNETT COUNTY, GEORGIA

DATE: AUGUST 1, 2020  
 DWG. NO.: BHL-19-09-19  
 OK BY: JCI

# cunningham, forehand, matthews & moore

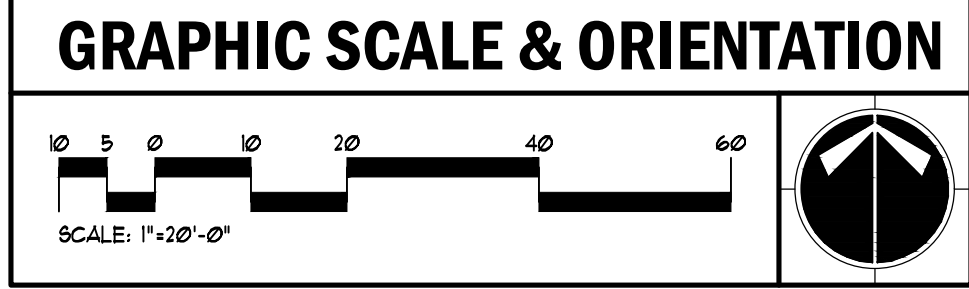
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C3.10



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**CALL BEFORE YOU DIG**

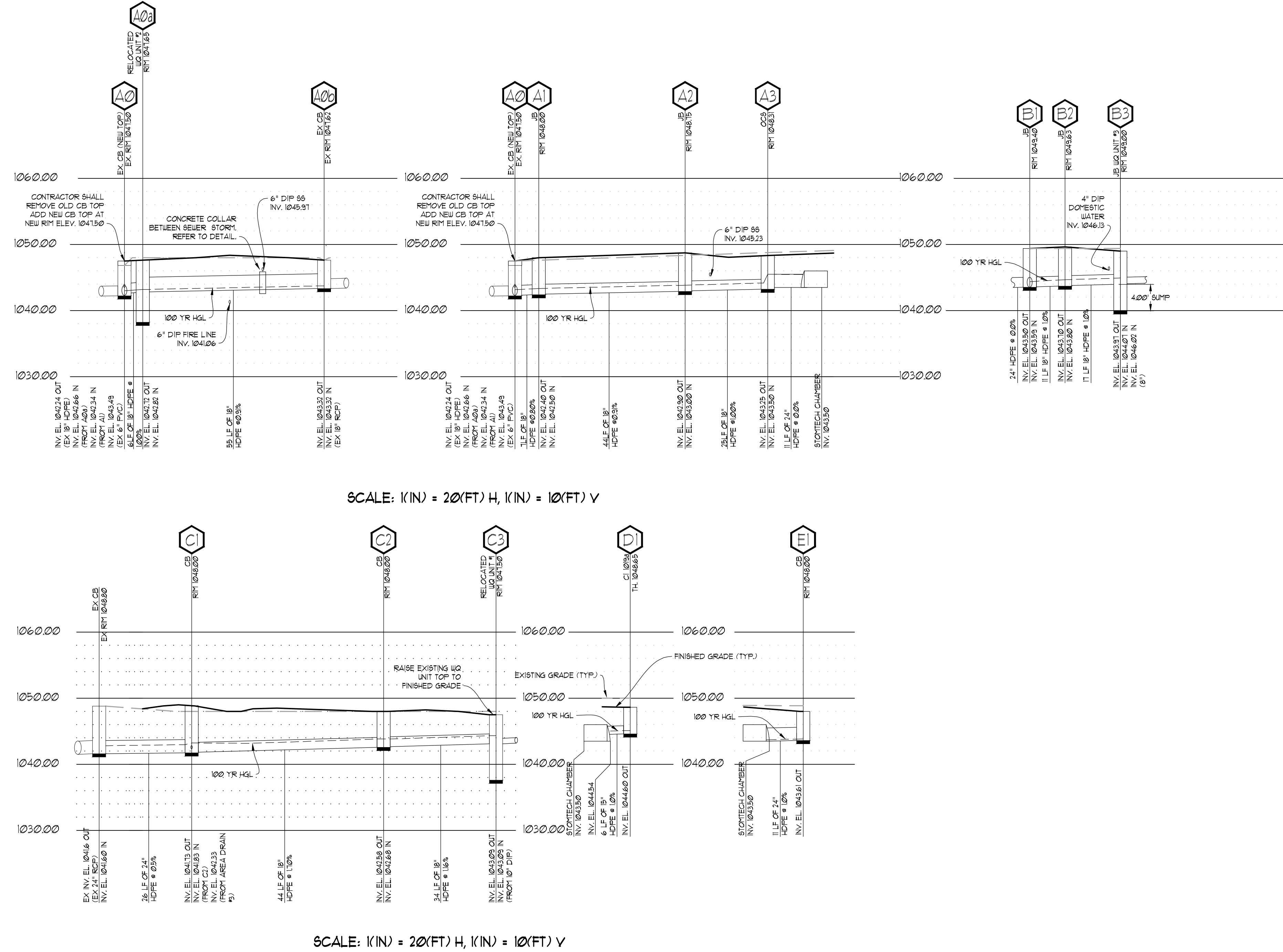
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**BREEDLOVE LAND PLANNING**  
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 BLP JOB # 21074



# STORM PIPE PROFILES



DATE	REVISION	NO.
3/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
01/03/22	ADDENDUM NO. 4	AA
01/28/22	POST BID ADDENDUM	
01/28/22	CONFORMED SET	

## STORM PIPE PROFILES & WALL ELEVATION

ADDITIONS AND ALTERATIONS TO:  
**NORTH GWINNETT HIGH SCHOOL**  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

DATE: August 1, 2020  
 JOB NO.: 8HL-19-09-19  
 DWG. BY: JRJG  
 CK. BY: JCM

cunningham, forehand, matthews & moore, architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152

C3.20

**BREEDLOVE LAND PLANNING, INC. PIPECHART**

YEAR STORM EVENT: 100 YEAR

PROJECT: NORTH GWINNETT HS ADDITION  
 PROJECT LOCATION: SUWANEE, GA

Upstream Structure	Downstream Structure	Drainage Area	c-factor	Inlet Time	Q	Total Q	Capacity	Pipe Length	Pipe Size	Slope	n-value	Velocity	Depth	Inv. Up	Inv. Dn	HGL Up	HGL Dn	Inlet Depth	
E	E1	UG	0.08	0.80	5	0.64	0.64	24.29	11 If	24	1.00	0.012	2.89	0.22	1043.61	1043.50	1043.88	1043.72	11.19
D	D1	UG	0.15	0.95	5	1.42	1.42	8.83	6 If	15	1.00	0.012	4.31	0.34	1043.45	1043.39	1043.92	1043.73	4.03
C	C3	C2	0.80	0.93	5	7.39	7.39	12.27	34 If	18	1.16	0.012	5.88	0.96	1043.09	1042.68	1044.14	1043.64	35.26
	C2	C1	0.03	0.55	5	0.16	7.51	14.84	44 If	18	1.70	0.012	6.08	0.93	1042.58	1041.83	1043.64	1042.76	44.06
	C1	Ex. CB	0.11	0.84	5	0.92	8.37	16.92	26 If	24	0.50	0.012	5.25	0.99	1041.73	1041.60	1042.76	1042.59	27.26
B	B3	B2	0.88	0.93	5	6.28	6.28	11.50	17 If	18	1.00	0.012	5.58	0.87	1043.97	1043.80	1044.94	1044.67	16.62
	B2	B1	0.00	0.00	0	0.00	6.28	11.59	11 If	18	1.00	0.012	5.94	0.79	1043.70	1043.59	1044.67	1044.38	10.60
A	A0b	A0a	0.25	0.66	5	1.64	1.64	11.38	55 If	18	0.91	0.012	3.40	0.47	1043.27	1042.72	1043.75	1043.19	54.82
	A0a	A0	0.00	0.00	0	0.00	1.58	11.84	6 If	18	1.00	0.012	3.99	0.37	1042.72	1042.66	1043.19	1043.03	5.53
	UG	A3	0.00	0.00	5	0.00	6.02	6.02	0.00	11 If	24	0.00	0.012	1.92	2.00	1043.50	1043.50	1043.51	1043.50
A3	A3	A2	0.00	0.00	0	0.00	6.02	11.38	25 If	18	1.00	0.012	5.49	0.85	1043.25	1043.00	1044.20	1043.85	25.00
	A2	A1	0.00	0.00	0	0.00	6.02	10.82	44 If	18	0.91	0.012	5.49	0.85	1042.90	1042.50	1043.85	1043.35	44.26
A1	A0	0.00	0.00	0	0.00	6.02	10.48	7 If	18	0.80	0.012	5.63	0.82	1042.40	1042.34	1043.35	1043.16	7.08	

### BMPs FOR IMPAIRED STREAM

- A LARGE SIGN (4' X 8' SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGNS SHALL BE VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S) AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOTI. HAS BEEN SUBMITTED.
- USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 60 DAYS (1) CALIBRATED DAYS IN ACCORDANCE WITH SECTION II, D.1 OF THE NPDES PERMIT.
- CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24-HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.6 OF THE NPDES PERMIT.
- CONDUCT SOIL TESTS TO IDENTIFY AND TO PREVENT SITE-SPECIFIC FERTILIZER NEEDS. (REFER TO SPECIFICATIONS.)

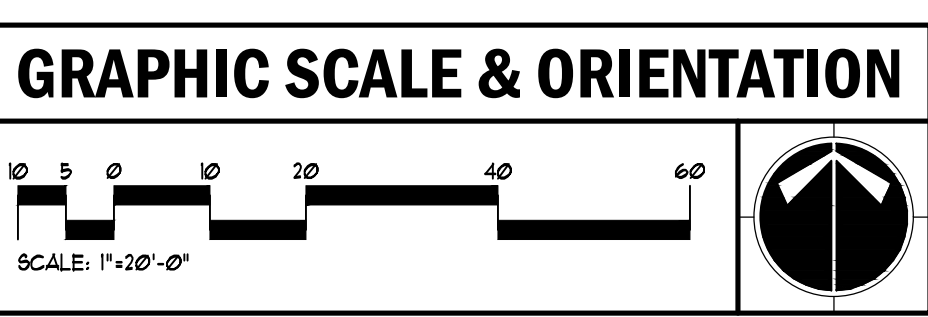
NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

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- READ THE SPECIFICATIONS. THIS SET OF DRAWINGS AND SPECIFICATIONS DEFINE PROJECT SCOPE AND CONTRACT REQUIREMENTS. INDIVIDUAL SHEETS SEPARATED FROM THE SET MAY NOT ADEQUATELY REFLECT ALL INFORMATION NEEDED TO SUITABLY COVER CERTAIN ITEMS. DO NOT SEPARATE THIS SET OF DRAWINGS INTO INDIVIDUAL SHEETS.

### UTILITY LOCATION NOTES

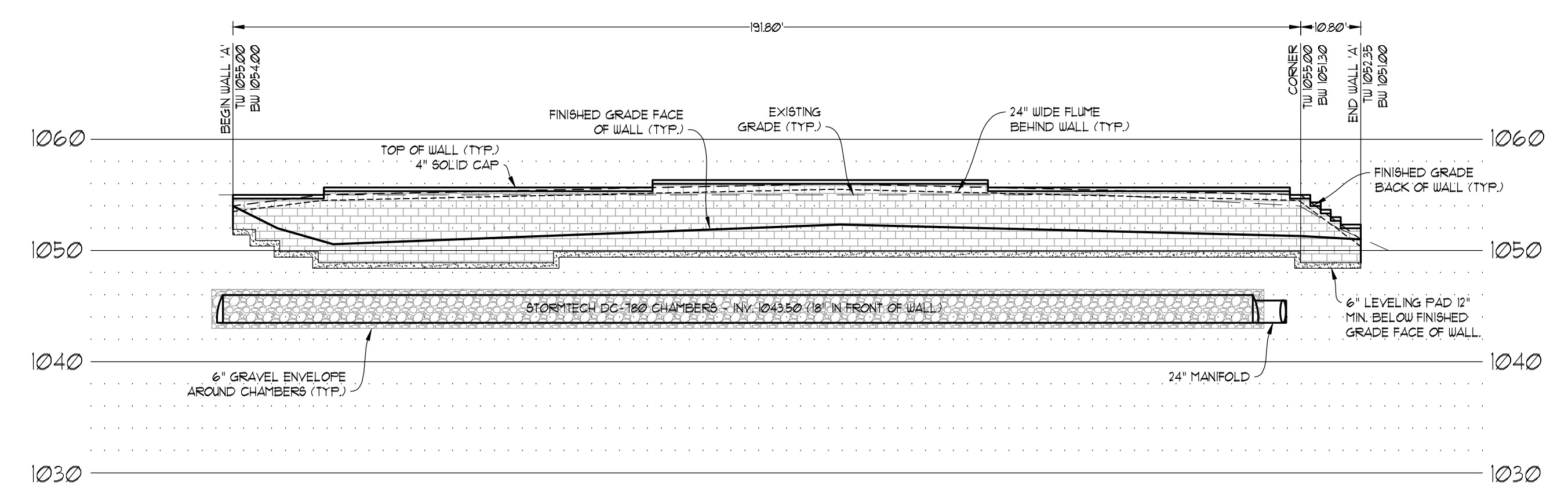
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- CONTRACTOR SHALL IMMEDIATELY REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE UTILITIES SHOWN ARE SCHEMATIC AND FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATION SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR FROM HIS/HER OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DUG AND BACKFILLED BY LOCAL UTILITIES SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND PROTECTION AS NECESSARY, IF SETTLEMENT OCCURS.



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 www.Georgia811.com

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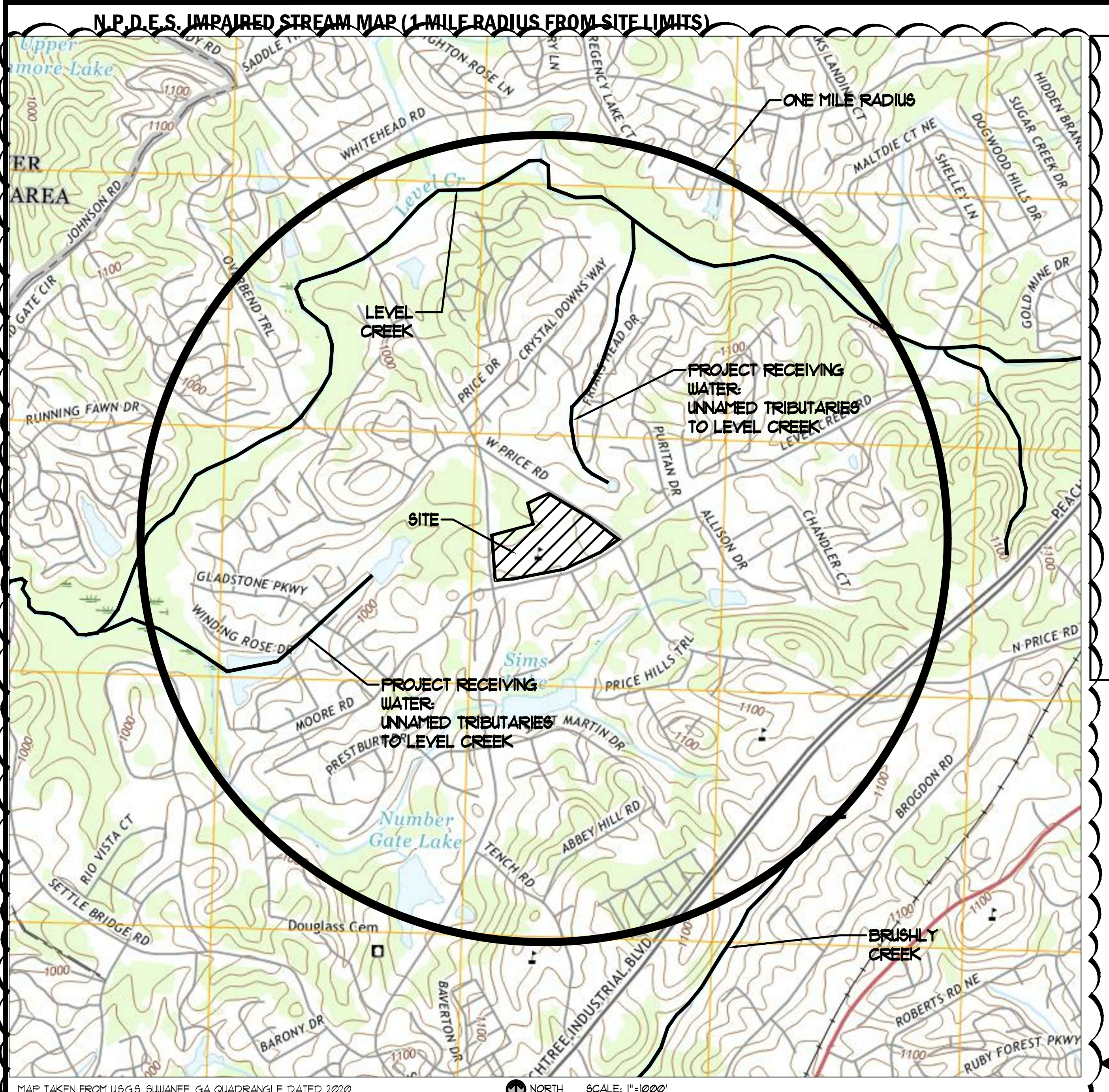


RETAINING WALL 'A' ELEVATION  
 MODULAR BLOCK

SCALE: 1"=10' V  
 1"=20' H

**BREEDLOVE LAND PLANNING**  
 Landscape Architects • Civil Engineers  
 www.landplanning.net  
 BLP JOB# 21074





MAP TAKEN FROM U.S.G.S. QUADRANGLE DATED 2012



Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AGI	Percent of AGI
AmC2	Appling sandy loam, 6 to 10 percent slopes, moderately eroded	B	1.1	4.3%
AmC2	Appling sandy clay loam, 6 to 10 percent slopes, eroded	B	4.9	19.6%
ApB	Appling-Hard Labor complex, 2 to 6 percent slopes	B	0.5	2.0%
ClC2	Cecil clay loam, 6 to 10 percent slopes, eroded	B	0.1	0.5%
Cfs	Chewada silt loam, 0 to 2 percent slopes, frequently flooded	B/D	0.0	0.1%
CYB2	Cecil sandy loam, 2 to 6 percent slopes, moderately eroded	B	1.5	6.0%
Ub	Urban land-Urthornts complex		16.9	67.6%
<b>Totals for Area of Interest</b>			<b>25.0</b>	<b>100.0%</b>

**IMPAIRED STREAM SEGMENT**

THIS SITE (SITE) WILL NOT DISCHARGE STORM WATER FROM ANY CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT OR WITHIN A LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIODIVERSITY IMPAIRED STREAM SEGMENT.

IF ANY STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES DISCHARGED INTO AN IMPAIRED STREAM SEGMENT THAT HAS BEEN LISTED FOR THE CRITERIA VIOLATED BY THE (IMPAIRED FROM COMPLETION) AND/OR BY (IMPAIRED MACROINVERTEBRATE COMPLETION) WITHIN CATEGORY 4A, 4B, OR 4, AND THE POTENTIAL CAUSE IS EITHER NOT KNOWN SOURCE OR NOT KNOWN SOURCE, THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE BMPs LISTED IN PART II(C) (A) THRU (I) OF THE PERMIT.

SEE APPENDIX I INCLUDED WITH THESE PLANS FOR FOUR (4) ADDITIONAL BMPs TO BE IMPLEMENTED WITH THIS PROJECT.

THE NEAREST IMPAIRED STREAM DOWNSTREAM OF THE PROJECT SITE IS LEVEL CREEK.

**TMDL IMPLEMENTATION PLAN**

A TMDL IMPLEMENTATION PLAN HAS (HAS NOT) BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN CHECKBOX ITEM #2) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOTICE OF INTENT.

THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.

**THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPs FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH ARE APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.**

Plan Page #	Included Y/N	Description
		The four items chosen must be appropriate for the site conditions.
		a. During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as " trout streams " requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards per acre drained).
		c. Use berms in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
Y		d. A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
Y		e. Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Section III.D.1. of the NPDES Permit.
Y		f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES Permit.
		g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
		i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
		j. Use "Dirt It" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)
		k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
		l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or over any increased flows.
		m. Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
		n. Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
		o. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) is expected to occur.
		p. Conduct site-specific fertilizer tests.
		q. Conduct site-specific fertilizer tests to determine the appropriate nitrogen and phosphorus application rates for the site. Fertilizer application rates shall be based on soil test results and shall be in accordance with Section IV.D.4.(3)(a)-(c) and (4) of the permit.
		r. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
		s. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gawcc.org/georgia.gov)
		* This requirement is different for infrastructure projects. Certified personnel for primary permittees shall conduct inspections at least once every fourteen (14) calendar days and within 24 hours of the end of the storm that is 0.5 inches or greater in accordance with Section IV.D.4.(3)(a)-(c) of the permit.
		t. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.
		u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Section IV.A.5 of the permit. The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.
		v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.

**Bmps FOR IMPAIRED STREAM**

D. A LARGE SIGN (4' X 8'; SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY (IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S) AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOT HAS BEEN SUBMITTED.)

E. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION III.D.1. OF THE NPDES PERMIT.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.6.D. OF THE NPDES PERMIT.

G. CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. REFER TO SPECIFICATIONS.

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

**GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES**

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	MAP SYMBOL
Cd	CHECKDAM	[Symbol]
Ch	CHANNEL STABILIZATION	[Symbol]
Co	CONSTRUCTION EXIT	[Symbol]
Cr	CONSTRUCTION ROAD STABILIZATION	[Symbol]
Dc	STREAM DIVERSION CHANNEL	[Symbol]
Di	DIVERSION	[Symbol]
Dn1	TEMPORARY DOWNSTREAM STRUCTURE	[Symbol]
Dn2	PERMANENT DOWNSTREAM STRUCTURE	[Symbol]
Fr	FILTER RING	[Symbol]
Ga	GABION	[Symbol]
Gr	GRADE STABILIZATION STRUCTURE	[Symbol]
Lv	LEVEL SPREADER	[Symbol]
Rd	ROCK FILTER DAM	[Symbol]
Re	RETAINING WALL	[Symbol]
Rt	RETRO FITTING	[Symbol]
Sd1	SEDIMENT BARRIER	[Symbol]
Sd2	INLET SEDIMENT TRAP	[Symbol]
Sd3	TEMPORARY SEDIMENT BASIN	[Symbol]
Sd4	TEMPORARY SEDIMENT TRAP	[Symbol]
Sk	FLOATING SURFACE SUMMER	[Symbol]
Spb	SEEP BERM	[Symbol]

VEGETATIVE PRACTICES

CODE	PRACTICE	MAP SYMBOL
Bf	BUFFER ZONE	[Symbol]
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	[Symbol]
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	[Symbol]
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)	[Symbol]
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)	[Symbol]
Ds4	DISTURBED AREA STABILIZATION (SOODING)	[Symbol]
Du	DUST CONTROL ON DISTURBED AREAS	[Symbol]
Fi-Co	FLOCCULANTS AND COAGULANTS	[Symbol]
Sb	STREAMBANK STABILIZATION USING PERM. VEGETATION	[Symbol]
Ss	SLOPE STABILIZATION	[Symbol]
Tac	TACKLERS AND BINDERS	[Symbol]

**GSWCC LEVEL II CERTIFICATIONS**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY SUPERVISION.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. CAR 10000.

SIGNED: *Justin M. Tanner* DATE: 11-09-2021

CERTIFIED DESIGN PROFESSIONAL: JUSTIN M. TANNER  
 GEORGIA CERTIFICATION NO. LEVEL II #200002448  
 EXPIRATION DATE: 03-29-2024  
 COMPANY: BREEDLOVE LAND PLANNING, INC.

**UTILITY LOCATION NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRM DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES.
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**24-HOUR EROSION CONTACT**

NAME: CAREY BELL  
 COMPANY: GWINNETT COUNTY PUBLIC SCHOOLS  
 EMAIL ADDRESS: CAREY.BELL@GCPSC.ORG  
 PHONE NUMBER: 770-933-6634

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**NPDES NOTES**

ADDITIONS AND ALTERATIONS TO:  
 NORTH GWINNETT HIGH SCHOOL  
 20 LEVEL CREEK RD NW  
 FOR GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

DATE: AUGUST 1, 2020  
 JOB NO. SHL-C08-15  
 DWG. BY: JMG  
 CK. BY: JCH

**cunningham, forehand, matthews & moore, architects, inc.** - atlanta, georgia 30324 - phone (404) 873-2152

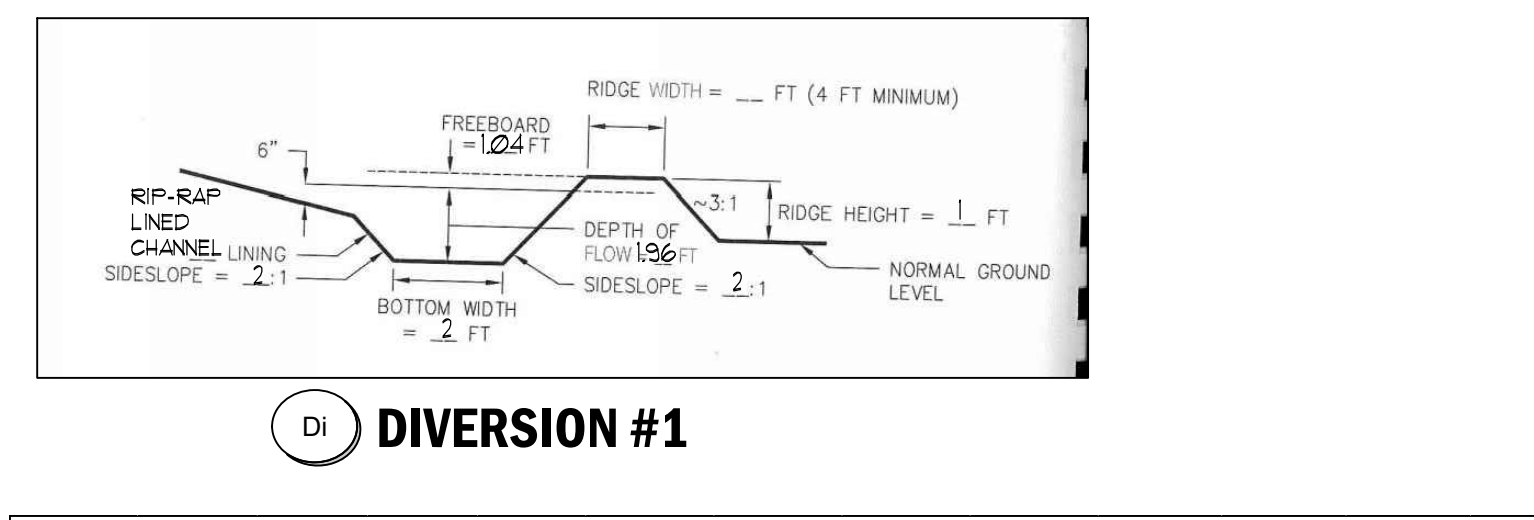
**C4.05**



Area	Erosion plan sheet reference	Drainage area (acres)	Length (ft)	Drainage area (acres) per 100 ft	Sed Storage Height at inlet (ft)	avg. bank slope gradient	Provided Volume	Required Volume **	Provided Volume > Required Volume?
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									

\* Can not exceed 0.25 acres per 100 linear feet of inlet fence per Green Book.  
\*\* Required Volume is 67 cu yd/acre of drainage area.

DATE	REVISIONS	NO.
3/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
01/03/22	ADDENDUM NO. 4	
01/28/22	POST BID ADDENDUM	
01/28/22	CONFORMED SET	AA



Structure	Diameter (in)	Q25 (cfs)	V25 (fps)	Yc (in)	Tailwater condition	Figure	La (ft)	W1 (ft)	W2 (ft)	d50 (ft)	dMAX (ft)	D (ft)
Ex 30" HW	30	13.59	2.04	20.35	MAXIMUM	6-34.2	12	7.5	7.30	1.50	1.80	2.70
Ex 36" HW	36	7.22	1.51	23.07	MAXIMUM	6-34.2	16	9	9.40	1.80	2.70	4.05

**CHANNEL #1**

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

- Lots in the channel that this check dam is being used on: 0.03 CFS.
- Above 2.0 cfs: Yes No NO Ch-1
- If Yes, list BMP being used in conjunction with check dam: VELOCITY: 0.49 FT/S

**RATIONALE FOR NOT PROVIDING AN SD3**

WE ARE NOT ABLE TO PROVIDE AN SD3 FOR TEMPORARY SEDIMENT STORAGE FOR NORTH GUINNETT HIGH SCHOOL DUE TO THE EXISTING INFRASTRUCTURE. WE ARE UTILIZING SALT FENCE ON THE PERIMETER. EXCAVATED SD2-ALT'S UNDERCUTTING STORAGE WATER POND TO PROVIDE THE NECESSARY 61 CUBIC YARDS OF STORAGE TO COMPLY WITH 46100000.

**CONSTRUCTION SCHEDULE**

PROJECT NAME: NORTH GUINNETT HIGH SCHOOL

MAJOR SOIL-DISTURBING ACTIVITY	OCCURRENCE
1. PRE-CONSTRUCTION MEETING WITH GUINNETTIA	MONTH 1
2. INITIAL CONSTRUCTION EROSION CONTROL	MONTH 1
3. FENCE TREE SAVE AREAS & LIMITS OF WORK	MONTH 1-2
4. INITIAL EROSION CONTROL MEASURES	MONTH 1-2
5. INITIAL BMP INSPECTION (A.C.A. 1562 1-2 DAY LETTER)	MONTHS 2-4
6. SITE PREPARATION & DEMOLITION	MONTH 2
7. INITIAL INTERMEDIATE EROSION CONTROL MEASURES	MONTHS 4-6
8. GRADING OPERATIONS	MONTHS 3-6
9. STORM DRAIN UTILITY INSTALLATION	MONTHS 12-14
10. CURB AND PAVING INSTALLATION	MONTHS 14-9
11. FINAL EROSION CONTROL MEASURES	MONTHS 16-11
12. SITE CLEANUP	MONTH 11
13. FINAL INSPECTIONS	MONTHS 18-9
14. REMOVAL OF TEMPORARY EROSION CONTROL MEASURES	MONTHS 18-9

**GENERAL EROSION NOTES**

- NOTIFY CITY/COUNTY INSPECTORS 24 HOURS BEFORE BEGINNING OF EVERY CONSTRUCTION PHASE.
- ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND DISTURBING ACTIVITIES AND CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ALL SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY GRADING.
- SEDIMENT BARRIER DEVICES SHALL BE INSPECTED AND REPAIRED OF DAMAGE DAILY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND SPREAD ON SITE.
- ALL DISTURBED AREAS SHALL BE GRAZED AS SOON AS CONSTRUCTION PHASE PERMITS.
- 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.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT, SHALL BE THE RESPONSIBILITY OF THE OWNER.
- ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET SHALL BE REFERRED TO THE ARCHITECT PRIOR TO THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- SEDIMENT STORAGE LEVEL MARKERS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE FULL VOLUME. MAXIMUM CUT OR FILL SLOPE IS (2:1) HORIZONTAL TO 1 VERTICAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY DOWN DRAINS ON FILL SLOPES TO PREVENT EROSION PRIOR TO STABILIZATION.
- CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM DETENTION BASIN PRIOR TO CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN FULLY STABILIZED.
- 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 AT NO ADDITIONAL COST TO THE OWNER.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDINGS.

**DO NOT BREAK OR DUPLICATE**

DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION.

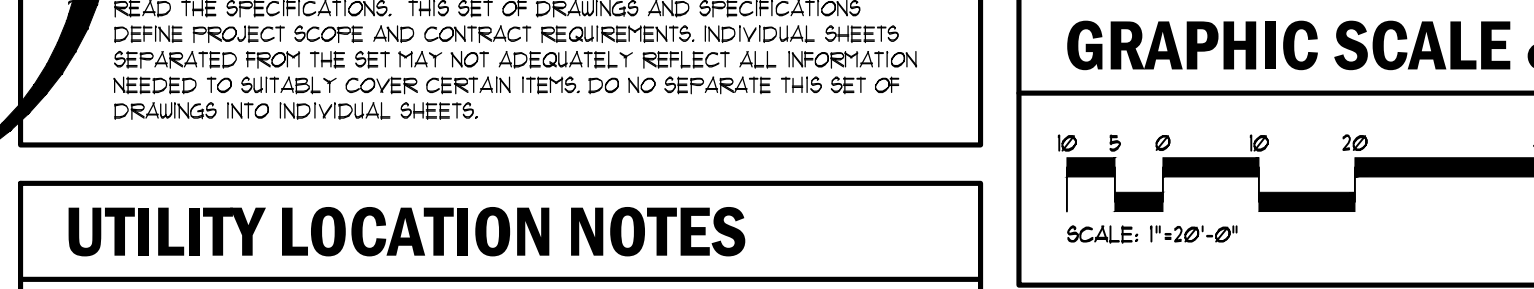
READ THE SPECIFICATIONS, THIS SET OF DRAWINGS AND SPECIFICATIONS BEFORE BEGINNING WORK. CONTRACTOR SHALL PROVIDE ADDITIONAL SHEETS SEPARATED FROM THE SET MAY NOT ADEQUATELY REFLECT ALL INFORMATION NEEDED TO SUITABLY COVER CERTAIN ITEMS. DO NOT SEPARATE THIS SET OF DRAWINGS INTO INDIVIDUAL SHEETS.

**UTILITY LOCATION NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE THE SERVICES OF A PRIVATE UTILITY LOCATOR PRIOR TO THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES.
- CONTRACTOR SHALL IMMEDIATELY REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE UTILITIES SHOWN ARE SCHEMATIC AND FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATION, DEPTH AND TYPE OF UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR FROM HIS/her OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DIG AND BACKFILLED BY LOCAL UTILITIES SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND COMPACTATION AS NECESSARY IF SETTLEMENT OCCURS.

**24-HOUR ES&PC CONTACTS**

NAME:	CAREY BELL
COMPANY:	GUINNETT COUNTY PUBLIC SCHOOLS
EMAIL ADDRESS:	CAREY.BELL@GCSG903.ORG
PHONE NUMBER:	770-93-6624



**CALL BEFORE YOU DIG**

**GEORGIA811**  
www.Georgia811.com

GEORGIA LAW MANDATES THAT BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY USING EMBEST ON (800) 452-8822 OR BY CALLING 811 OR (404) 252-1411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

**BMPs FOR IMPAIRED STREAM**

D. A LARGE 9'6" (4' X 8') SEE DETAIL 9, C&D SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY (IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S) AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOTI HAS BEEN SUBMITTED.

E. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 60 DAYS IN ACCORDANCE WITH SECTION III (I) OF THE NPDES PERMIT.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OR 90 DAYS OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV (A) OF THE NPDES PERMIT.

G. CONDUCT SOIL TESTS TO DETERMINE AND TO PREPARE SITE-SPECIFIC FERTILIZER NEEDS (REFER TO SPECIFICATIONS).

NOTE: REFER TO C&D FOR IMPAIRED STREAM MAP

**DISTURBED AREA**

TOTAL SITE AREA: 25.1 AC  
DISTURBED AREA INITIAL: 0.81 AC

**HYDROSEEDING NOTE**

ALL LAWN AREAS SHALL BE SEEDING WITH KENTUCKY 31 BERGE (TEMPORARY) OR HULLED BERBERA (PERMANENT). APPLY FESCUE AT THE RATE OF FIVE (5) POUNDS PER ONE THOUSAND (1000) SQUARE FEET OR APPLY BERBERA AT THE RATE OF TWO (2) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. ALL DESIGNATED AREAS SHALL BE PLANTED WITH A HYDRO-SEEDER AFTER AREAS HAVE BEEN PREPARED FOR SEEDING. OTHERS HYDROLOGICAL (1000' OR APPROVED EQUAL) AS MANUFACTURED BY PROFILE PRODUCTS CO. SHALL BE APPLIED AT THE RATE OF ONE THOUSAND FIVE HUNDRED (1500) POUNDS PER ACRE ON AT SLOPES TO 1 VERTICAL TO 1 HORIZONTAL. TWO THOUSAND FIVE HUNDRED (2500) POUNDS PER ACRE ON SLOPES GREATER THAN 1:1. SEED FERTILIZER, LIME AND FIBER IN ONE OPERATION. EXISTING TREES AND SHRUBS IN HYDRO-SEEDING AREA SHALL BE PROTECTED DURING HYDROSEEDING.

**EROSION NARRATIVE**

THE CONTRACTOR SHALL INSTALL INITIAL PERIMETER CONTROL BMP'S (SILT FENCE), COMPOST FILTER SOCK, A CONSTRUCTION EXIT PRIOR TO REQUESTING INITIAL INSPECTION. LAND DISTURBANCE SHALL BE LIMITED TO THE AREA SHOWN ON THIS PLAN UNTIL THE INITIAL INSPECTION HAS OCCURRED AND INSTALLATION OF THE INITIAL BMP'S HAS BEEN APPROVED. AFTER INITIAL INSPECTION HAS BEEN APPROVED, ALL OTHER LAND DISTURBING ACTIVITIES MAY COMMENCE. CONTRACTOR SHALL INSPECT AND MAINTAIN ALL INITIAL BMP'S AND TRANSITION TO INTERMEDIATE BMP'S (SEE C&D) AS PHASING REQUIRES.

**INITIAL EROSION INSPECTION**

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S BEFORE UTILIZATION.

THE PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPCD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S.

THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMP'S HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED.

THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE (AND OPERATOR) WITHIN SEVEN (7) DAYS AND THE PERMITTEE (AND OPERATOR) MUST CONTACT ALL DISTURBING ACTIVITIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

**GSWCC LEVEL II CERTIFICATIONS**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY SUPERVISION.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT AND THE EROSION AND SEDIMENT CONTROL IN GEORGIA (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY OF THE YEAR IN WHICH THE CONSTRUCTION ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATERS OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGN SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. 100000.

SIGNED: *[Signature]* DATE: 11-09-2021

CERTIFIED DESIGN PROFESSIONAL JUSTIN M TANNER  
GSWC CERTIFICATION NO. LEVEL II \* 0000003448  
EXPIRATION DATE: 03-31-2024  
COMPANY: BREEDLOVE LAND PLANNING, INC.

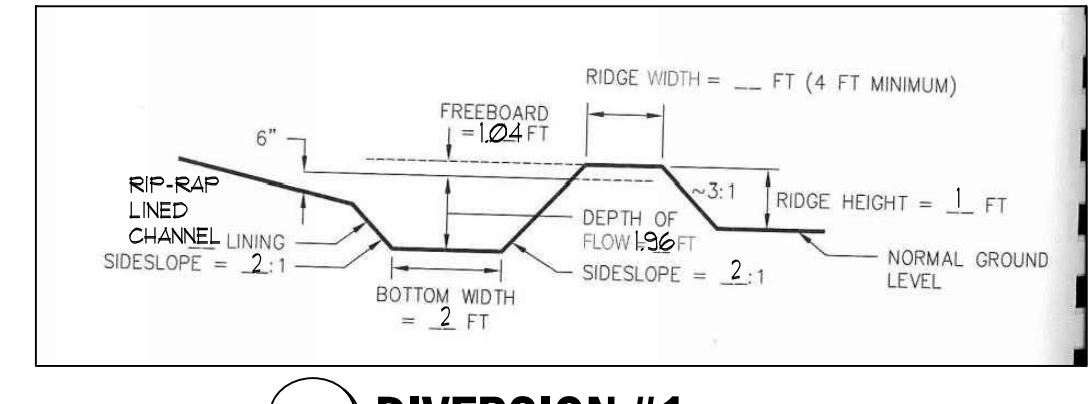
**CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS AS REQUIRED BY CONTRACT DOCUMENTS AND LOCAL GOVERNING REGULATIONS. (PROVIDE LISTED BMP'S ABOVE OVER ENTIRE SITE (TYP.))**



Area	Erosion plan sheet reference	3 Length (acres)	4 Drainage area (acres)	5 Sed Storage per 100 ft**	6 Sed Storage at site fence	7 Sed avg back slope gradient	8 Provided Volume	9 Required Volume**	10 Provided Volume**	11 Required Volume**
1	Sheet 1	1.0	1.0	100	100	10%	100	100	100	100

\* Can not exceed 0.25 acres per 100 linear feet of silt fence per Green Book  
 \*\* Required Volume is 87 cu yd / acre of drainage area

DATE	REVISIONS	NO.
3/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/05/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
01/03/22	ADDENDUM NO. 4	AA
01/28/22	POST BID ADDENDUM	
01/28/22	CONFORMED SET	



**DI DIVERSION #1**

**CHANNEL #1**

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1. In the channel which this check dam is being used in: **0.02 CFS**

2. Above 2.0 cfs: Yes  No

3. If Yes, has BMP being used in conjunction with check dam: **Ch-1**

VELOCITY: 0.49 FT/S

Structure	Diameter (in)	Q25 (cfs)	V25 (fps)	Yc (in)	Tailwater Condition	Figure	La (ft)	Ws (ft)	Wc (ft)	d50 (ft)	dMAX (ft)	D (ft)
Ex. 30" HW	30	13.59	2.04	20.35	MAXIMUM	6-34.2	12	7.5	7.30	1.20	1.80	2.70
Ex. 36" HW	36	7.22	1.51	23.07	MAXIMUM	6-34.2	16	9	9.40	1.60	2.70	4.05

**RATIONALE FOR NOT PROVIDING AN SD3 (48)**

WE ARE NOT ABLE TO PROVIDE AN SD3 FOR TEMPORARY SEDIMENT STORAGE FOR NORTH GUINNETT HS SCHOOL DUE TO THE EXISTING INFRASTRUCTURE. WE ARE UTILIZING USING SILT FENCE ON THE PERIMETER EXCAVATED SEDIMENT BASINS UNDERSTANDING STORMWATER FLOW TO PROVIDE THE NECESSARY 61 CUBIC YARDS OF STORAGE TO COMPLY WITH GAO1000001.

**CONSTRUCTION SCHEDULE (20)**

PROJECT NAME: NORTH GUINNETT HIGH SCHOOL

ACTIVITY	MONTH
1. MAJOR SOIL-DISTURBING ACTIVITY	MONTH 1
2. PRE-CONSTRUCTION MEETING WITH GUINNETT	MONTH 1
3. INITIAL CONSTRUCTION ENTRANCE	MONTH 1-1.2
4. INITIAL INITIAL EROSION CONTROL MEASURES	MONTH 1-2
5. INITIAL BMP INSPECTION (A.C.A. ISSUE 1-2 DAY LETTER)	MONTH 2-4
6. SITE PREPARATION / DEMOLITION	MONTH 2-4
7. INITIAL INTERMEDIATE EROSION CONTROL MEASURES	MONTH 2-4
8. GRADING OPERATIONS	MONTH 3-8
9. FINE GRADING / UTILITY INSTALLATION	MONTH 3-8
10. CURB AND PAVING INSTALLATION	MONTH 3-8
11. FINAL EROSION CONTROL MEASURES	MONTH 4-9
12. SITE CLEANUP	MONTH 4-9
13. FINISH / FINAL INSPECTIONS	MONTH 11
14. REMOVAL OF TEMPORARY EROSION CONTROL MEASURES	MONTH 11-15

**GENERAL EROSION NOTES**

- NOTIFY CITY/COUNTY INSPECTORS 24 HOURS BEFORE BEGINNING OF EVERY CONSTRUCTION PHASE.
- ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND DISTURBING ACTIVITIES AND CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ALL SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY GRADING.
- SEDIMENT BARRIER DEVICES SHALL BE INSPECTED AND REPAIRED OF DAMAGE DAILY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND SPREAD ON SITE.
- ALL DISTURBED AREAS SHALL BE GRAZED AS SOON AS CONSTRUCTION PHASE PERMITS.
- 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.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT, SHALL BE THE RESPONSIBILITY OF THE OWNER.
- ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET SHALL BE REFERRED TO THE ARCHITECT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- SEDIMENT STORAGE LEVEL MARKERS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 10% FULL VOLUME.
- MAXIMUM CUT OR FILL SLOPE IS (2) TO 1 HORIZONTAL TO 1 VERTICAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY DOOR DRAINS ON FILL SLOPES TO PREVENT EROSION PRIOR TO STABILIZATION.
- CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM DETENTION BASIN AT END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN FULLY STABILIZED.
- 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 AT NO ADDITIONAL COST TO THE OWNER.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDINGS.

**DO NOT BREAK OR DUPLICATE**

- DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION.
- READ THE SPECIFICATIONS, THIS SET OF DRAWINGS AND SPECIFICATIONS BEFORE BEGINNING WORK AND CONTRACTOR REQUIREMENTS INDIVIDUAL SHEETS SEPARATED FROM THE SET MAY NOT ADEQUATELY REFLECT ALL INFORMATION NEEDED TO SUITABLY COVER CERTAIN ITEMS. DO NOT SEPARATE THIS SET OF DRAWINGS INTO INDIVIDUAL SHEETS.

**UTILITY LOCATION NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE THE SERVICES OF A PRIVATE UTILITY LOCATOR PRIOR DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES.
- CONTRACTOR SHALL IMMEDIATELY REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE UTILITIES SHOWN ARE SCHEMATIC AND FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATION, DEPTH AND TYPE OF UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR FROM ANY OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DUG AND BACKFILLED BY LOCAL UTILITIES SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND PROTECTION AS NECESSARY IF SETTLEMENT OCCURS.

**BMPs FOR IMPAIRED STREAM (22)**

- A LARGE SIGN (4' X 8' SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S) AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) AND A NO. THAT IS NOT BEING SUBMITTED.
- USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION II, D, 1 OF THE NPDES PERMIT.
- CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV, B.6.d OF THE NPDES PERMIT.
- CONDUCT SOIL TESTS TO IDENTIFY AND TO PREVENT SITE-SPECIFIC FERTILIZER NEEDS (REFER TO SPECIFICATIONS).

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

**INTERMEDIATE EROSION SUMMARY**

MAINTAIN ALL PREVIOUSLY INSTALLED BMPs AS REQUIRED. PERFORM MAINTENANCE GRADING, CONSTRUCT DRIVE WALLS, AND SET FINAL STORM STRUCTURES. CONTINUE TO PROVIDE SEDIMENT STORAGE BY INSTALLATION OF SED-ALT (EXCAVATED INLETS). UPON APPROVAL OF INTERMEDIATE BMPs, MOVE INTO PHASE 3 CONSTRUCTION AND EROSION MEASURES (C409).

PROVIDE TEMPORARY AND PERMANENT GRASSING ON ALL FINAL GRADED AREAS AS SOON AS POSSIBLE.

**DISTURBED AREA**

TOTAL SITE AREA: 251 AC    DISTURBED AREA: 146 AC

**HYDROSEEDING NOTE**

ALL LAWN AREAS SHALL BE SEEDING WITH KENTUCKY 31 PERENNIAL OR HILDED BERTHA PERENNIAL, APRIL 15 TO APRIL 30 AT THE RATE OF FIVE (5) POUNDS PER ONE THOUSAND (1000) SQUARE FEET OR APRIL 15 TO APRIL 30 AT THE RATE OF TWO (2) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. ALL DESIGNATED AREAS SHALL BE PLANTED WITH A HYDRO-SEEDER AFTER AREAS HAVE BEEN PREPARED FOR SEEDING. INLETS, PLANS SHOW OTHERWISE. IN DESIGNATED AREAS APPROVED EROSION AS MANUFACTURED BY PRINCE PRODUCTS CO. SHALL BE APPLIED AT THE RATE OF ONE THOUSAND FIVE HUNDRED (1500) POUNDS PER ACRE ON FURROWS TWO THOUSAND (2000) POUNDS PER ACRE ON SLOPES UP TO (1) TO 1 HORIZONTAL TO 1 VERTICAL AND TWO THOUSAND FIVE HUNDRED (2500) POUNDS PER ACRE ON SLOPES GREATER THAN 1 TO 1. APRIL 15 SEED FERTILIZER. LIME AND FIBER IN ONE OPERATION. EXISTING TREES AND SHRUBS IN HYDRO-SEEDING AREA SHALL BE PROTECTED DURING HYDROSEEDING.

**GSWCC LEVEL II CERTIFICATIONS**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY SUPERVISION.

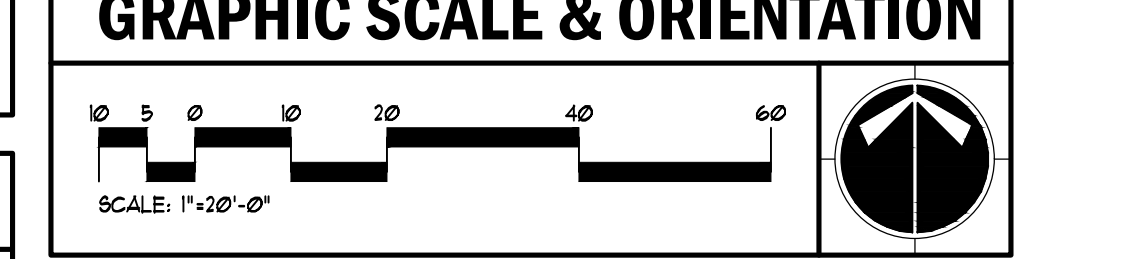
I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY OF THE YEAR IN WHICH THE DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE YEAR IN WHICH THE RECEIVING WATERS (S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GA0000000.

SIGNED: *Justin Manner*    DATE: 11-09-2021

CERTIFIED DESIGN PROFESSIONAL JUSTIN MANNER  
 GSWCC CERTIFICATION NO. LEVEL II # 0000003448  
 EXPIRATION DATE: 03-31-2024  
 COMPANY: BREEDLOVE LAND PLANNING, INC.

**24-HOUR ES&PC CONTACTS**

NAME:	CAREY BELL
COMPANY:	GUINNETT COUNTY PUBLIC SCHOOLS
EMAIL ADDRESS:	CAREYB@GCSK12.ORG
PHONE NUMBER:	706-93-6624



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 www.Georgia811.com

GEORGIA 811 HANDBOOK STATES THAT BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY USING EMBEDEST ON UNDESIGNED LOCATIONS OR BY CALLING 811 OR 1-800-251-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

**ES&PC PLAN-INTERMEDIATE PLAN**

ADDITIONS AND ALTERATIONS TO:  
 NORTH GUINNETT HIGH SCHOOL  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GUINNETT COUNTY SCHOOLS  
 GUINNETT COUNTY, GEORGIA

DATE: August 1, 2020  
 JOB NO.: BHL-19-19  
 OK BY: JCM  
 DRW BY: JRJ

**cunningham, forehand, matthews & moore, architects, inc.** - atlanta, georgia 30324 - phone (404) 873-2152

**amingham forehand matthews moore**

C4.20

**BREEDLOVE LAND PLANNING**  
 Landscape Architects • Civil Engineers  
 www.landplanning.net  
 BLP JOB # 21074



DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
3/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
01/03/22	ADDENDUM NO. 4	
01/24/22	POST BID ADDENDUM	
01/28/22	CONFORMED SET	AA

**ES&PC PLAN-FINAL PLAN**

ADDITIONS AND ALTERATIONS TO:  
**NORTH GUINNETT HIGH SCHOOL**  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30024  
 FOR GUINNETT COUNTY SCHOOLS  
 GUINNETT COUNTY, GEORGIA

**cunningham, forehand, matthews & moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

JOB NO. BHL-19-09-19  
 DATE: August 1, 2020  
 DWG. BY: JRQ  
 OK BY: JCT

C4.30

### CONSTRUCTION SCHEDULE

PROJECT NAME:	NORTH GUINNETT HIGH SCHOOL	
MAJOR SOIL DISTURBING ACTIVITY	OCURRENCE	MONTH
1. PRE-CONSTRUCTION MEETING WITH OWNER/LIA		MONTH 1
2. INSTALL CONSTRUCTION ENTRANCE EXIT		MONTH 1
3. FENCE TREE SAVE AREAS & LIMITS OF WORK		MONTH 1-2
4. INSTALL INITIAL EROSION CONTROL MEASURES		MONTH 1-2
5. INTERMEDIATE EROSION CONTROL MEASURES		MONTH 2-4
6. GRADING OPERATIONS		MONTHS 4-6
7. CURB AND PAVING INSTALLATION		MONTHS 8-9
8. SITE CLEANUP		MONTHS 10-11
9. REMOVAL OF TEMPORARY EROSION CONTROL MEASURES		MONTHS 10-11
10. FINAL INSPECTIONS		MONTHS 10-11
11. REMOVAL OF TEMPORARY EROSION CONTROL MEASURES		MONTHS 10-11

### BMPs FOR IMPAIRED STREAM

D. A LARGE SIGN (4' X 8' SEE DETAIL S, C400) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE (THE PERMITTEE'S AND THE CONTACT PERSON'S) AND TELEPHONE NUMBER(S) UNTIL A NOTI HAS BEEN SUBMITTED.

E. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION III, D, I OF THE NPDES PERMIT.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.25 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD. RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV(D)(4) OF THE NPDES PERMIT.

G. CONDUCT SOIL TESTS TO IDENTIFY AND TO FULFILL SITE-SPECIFIC FERTILIZER NEEDS (REFER TO SPECIFICATIONS).

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

### FINAL EROSION SUMMARY

CONTRACTOR SHALL MAINTAIN ALL PREVIOUSLY INSTALLED BMPs AS REQUIRED. ALL AREAS SHALL BE STABILIZED AS SHOWN IN THE PLANS.

ALL PREVIOUS AREAS OF DISTURBANCE NOT SHOWN TO BE SOGGED OR FULCHED SHALL BE PREPARED PER TECHNICAL SPEC AND SOGGED WITH BERMLUDA GRASS (D44) FINAL STABILIZATION SHALL BE AT MIN 10% DENSITY WITH 100% COVERAGE.

WHEN STABILIZATION HAS BEEN ACHIEVED IN ACCORDANCE WITH THE NPDES PERMIT AND CONTRACT DOCUMENTS, THE NOTI SHALL BE FILED AND ALL REMAINING TEMPORARY BMPs REMOVED.

### PERMANENT STABILIZATION LEGEND

Ds1	ERK STRAW (SEE C1)
Ds3	HYDROSEED WITH BERMLUDA (SEE C440)
Ds4	SOB (SEE C440)

**NOTE:**  
 PLANTING, INCLUDING TREES, SHRUBS, GROUND COVER, SOD AND PERMANENT GRASSING (SEEDING) IS NOT IN CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY GRASSING THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PREPARE ALL PLANTING BEDS, ISLANDS AND LAWN AREAS FOR PLANTING PER PROJECT SPECIFICATIONS.

- ### GENERAL EROSION NOTES
- NOTIFY CITY/COUNTY INSPECTORS 24 HOURS BEFORE BEGINNING OF EVERY CONSTRUCTION PHASE.
  - ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
  - THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND DISTURBING ACTIVITIES AND CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
  - ALL SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY GRADING.
  - SEDIMENT BARRIER DEVICES SHALL BE INSPECTED AND REPAIRED OF DAMAGE DAILY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND SPREAD ON SITE.
  - ALL DISTURBED AREAS SHALL BE GRADED AS SOON AS CONSTRUCTION PHASE PERMITS.
  - 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.
  - MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT SHALL BE THE RESPONSIBILITY OF THE OWNER.
  - ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET SHALL BE REFERRED TO THE ARCHITECT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
  - SEDIMENT STORAGE LEVEL MARKERS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
  - MAXIMUM CUT OR FILL SLOPE IS (2) : (1) HORIZONTAL TO 1 VERTICAL.
  - CONTRACTOR SHALL PROVIDE TEMPORARY DOWN DRAINS ON HILL SLOPES TO PREVENT EROSION PRIOR TO STABILIZATION.
  - CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM DETENTION BASIN AT END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN FULLY STABILIZED.
  - 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 AT NO ADDITIONAL COST TO THE OWNER.
  - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

### DISTURBED AREA

TOTAL SITE AREA: 25.1 AC    DISTURBED AREA: 146 AC

### HYDROSEEDING NOTE

ALL LAWN AREAS SHALL BE SEEDING WITH KENTUCKY 31 BERGEE (TEMPORARY) OR HILLED BERMLUDA (PERMANENT), APRIL 15 SEED AT THE RATE OF FIVE (5) POUNDS PER ONE THOUSAND (1000) SQUARE FEET OR APPLY BERMLUDA AT THE RATE OF TWO (2) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. ALL DESIGNATED AREAS SHALL BE PLANTED WITH A HYDRO-SEEDER AFTER AREAS HAVE BEEN PREPARED FOR SEEDING UNLESS PLANS SHOW OTHERWISE. HYDROSEEDING SHALL BE APPLIED AT THE RATE OF ONE THOUSAND FIVE HUNDRED (1500) POUNDS PER ACRE ON FLAT SURFACES TWO THOUSAND (2000) POUNDS PER ACRE ON SLOPES UP TO (3) : (1) HORIZONTAL TO 1 VERTICAL AND TWO THOUSAND FIVE HUNDRED (2500) POUNDS PER ACRE ON SLOPES GREATER THAN (3) : (1) VERTICAL. SEED FERTILIZER, LIME AND FIBER IN ONE OPERATION. EXISTING TREES AND SHRUBS IN HYDRO-SEEDING AREA SHALL BE PROTECTED DURING HYDROSEEDING.

### GSWCC LEVEL II CERTIFICATIONS

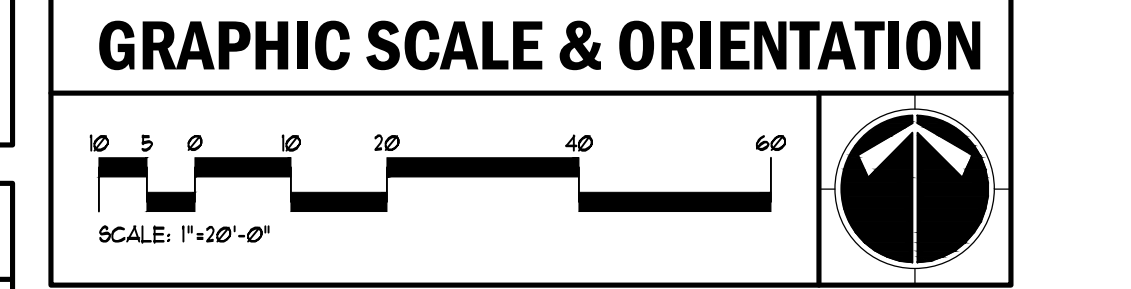
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY SUPERVISION.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DESIGN AND CONSTRUCTION FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY OF THE YEAR IN WHICH THE DISTURBING ACTIVITY WAS INITIATED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATERS (S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. W-0000000.

SIGNED: *Justin M Tanner*    DATE: 11-01-2021  
 CERTIFIED DESIGN PROFESSIONAL JUSTIN M TANNER  
 GSWCC CERTIFICATION NO. LEVEL II # 0000003448  
 EXPIRATION DATE: 03-29-2024  
 COMPANY: BREEDLOVE LAND PLANNING, INC.

### 24-HOUR ES&PC CONTACTS

NAME:	CAREY BELL
COMPANY:	GUINNETT COUNTY PUBLIC SCHOOLS
EMAIL ADDRESS:	CAREY.BELL@GCSK90.ORG
PHONE NUMBER:	770-913-6624



### CALL BEFORE YOU DIG

**GEORGIA811**  
 www.Georgia811.com

GEORGIA LAW MANDATES THAT BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY USING EREUBEST ON WEBSITE OR BY CALLING 811 OR 1-800-368-1111 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

### DO NOT BREAK OR DUPLICATE

- DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION.
- READ THE SPECIFICATIONS, THIS SET OF DRAWINGS AND SPECIFICATIONS DURING PROJECT SCOPE AND CONTRACT REQUIREMENTS. INDIVIDUAL SHEETS SEPARATED FROM THE SET MAY NOT ADEQUATELY REFLECT ALL INFORMATION NEEDED TO SUITABLY COVER CERTAIN ITEMS. DO NOT SEPARATE THIS SET OF DRAWINGS INTO INDIVIDUAL SHEETS.

- ### UTILITY LOCATION NOTES
- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRST DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES.
  - CONTRACTOR SHALL IMMEDIATELY REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
  - THE UTILITIES SHOWN ARE SCHEMATIC AND FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATION SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR FROM HIS/HER OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BACKFILL ON ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DIG AND BACKFILLED BY LOCAL UTILITIES SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND PROTECTION AS NECESSARY IF SETTLEMENT OCCURS.

**3-STORY NEW ADDITION - TYPE IIA  
 CONSTRUCTION - OVERALL AREA +/- 71,990  
 SQUARE FEET - (APPROX. FIN. FLOOR ELEVATION  
 AT MAIN LEVEL 1049.1 TO MATCH EXISTING  
 ADJACENT BUILDINGS)**

CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS AS REQUIRED BY CONTRACT DOCUMENTS AND LOCAL GOVERNING REGULATIONS. (PROVIDE LISTED BMPs ABOVE OVER ENTIRE SITE (TYP.))

Ds1    Ds3    Ds4

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 Landscape Architects • Civil Engineers  
 www.landplanning.net  
 BLP JOB # 21074





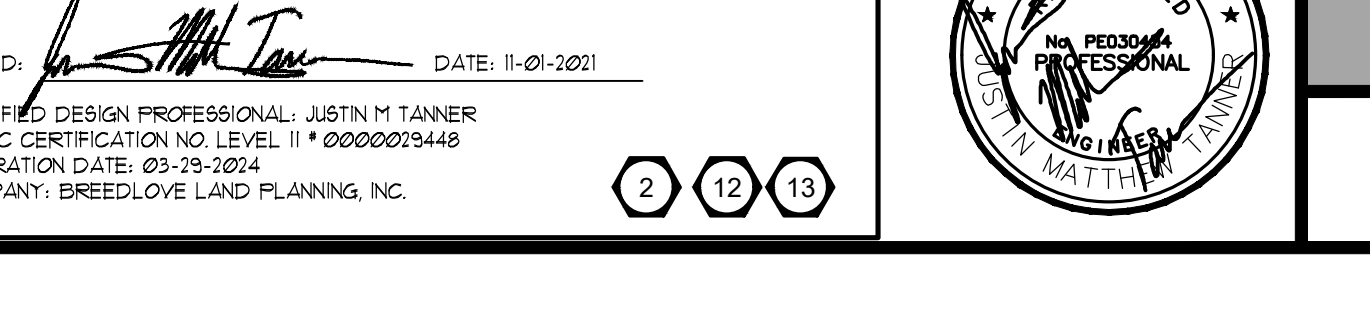
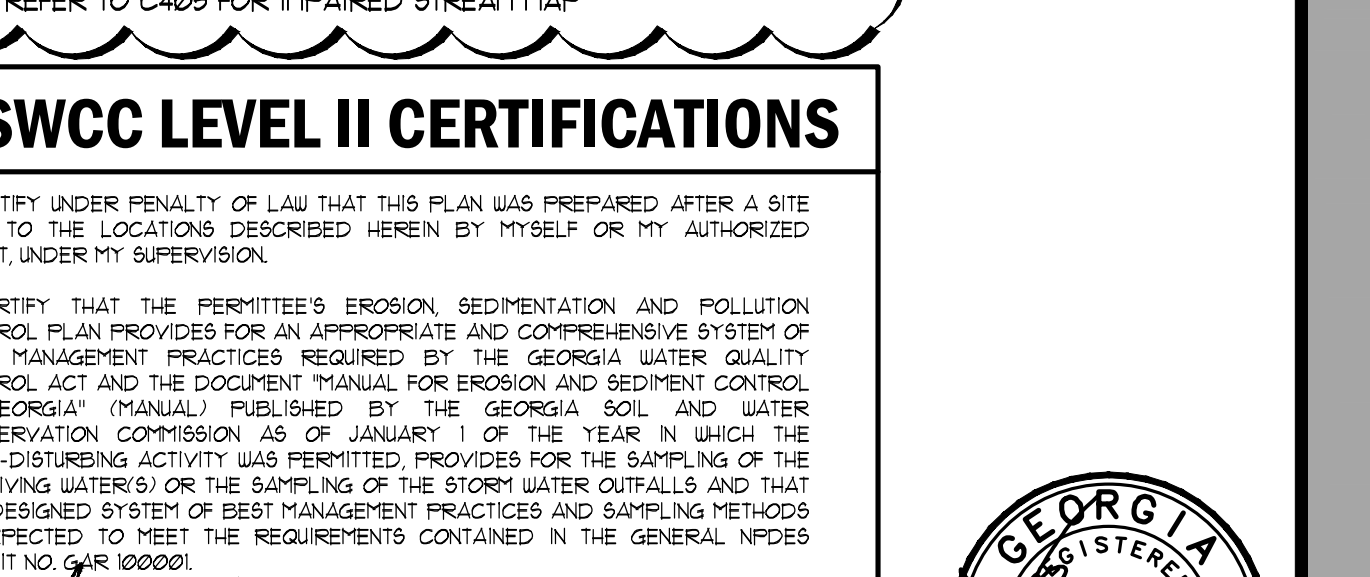
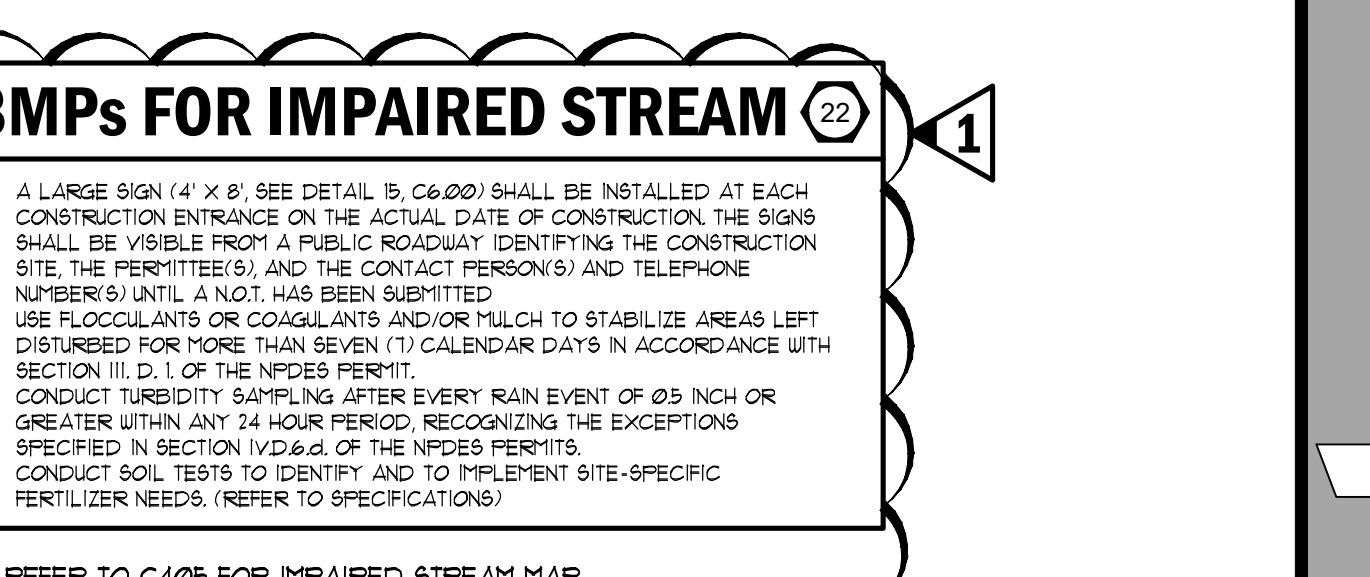
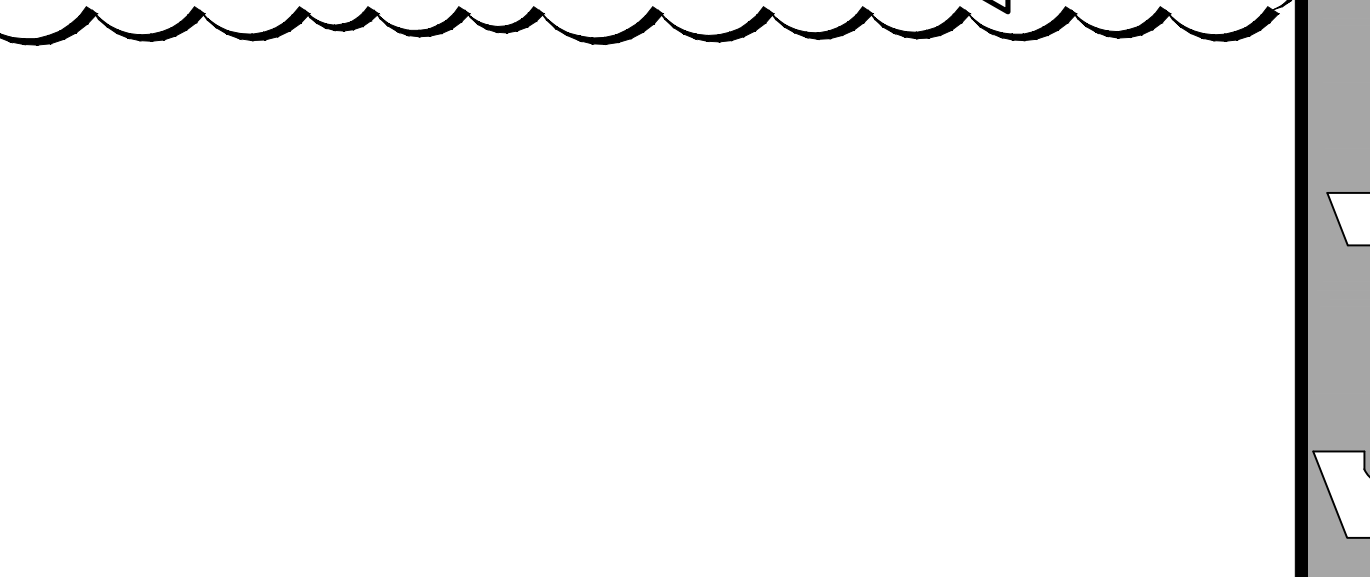
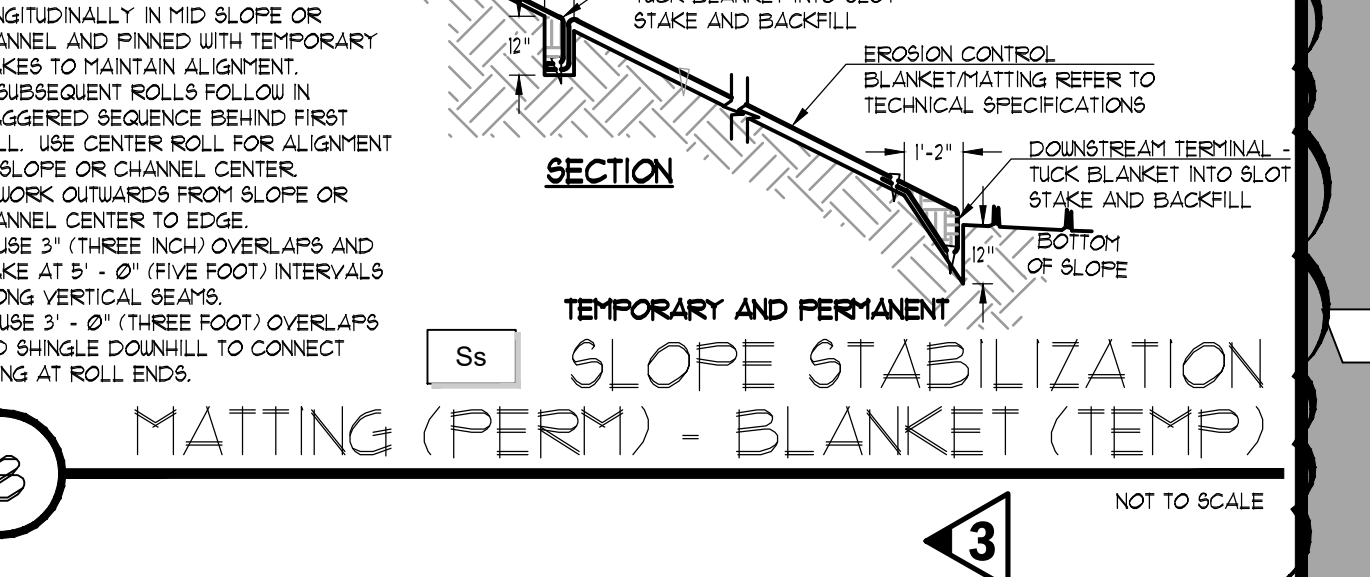
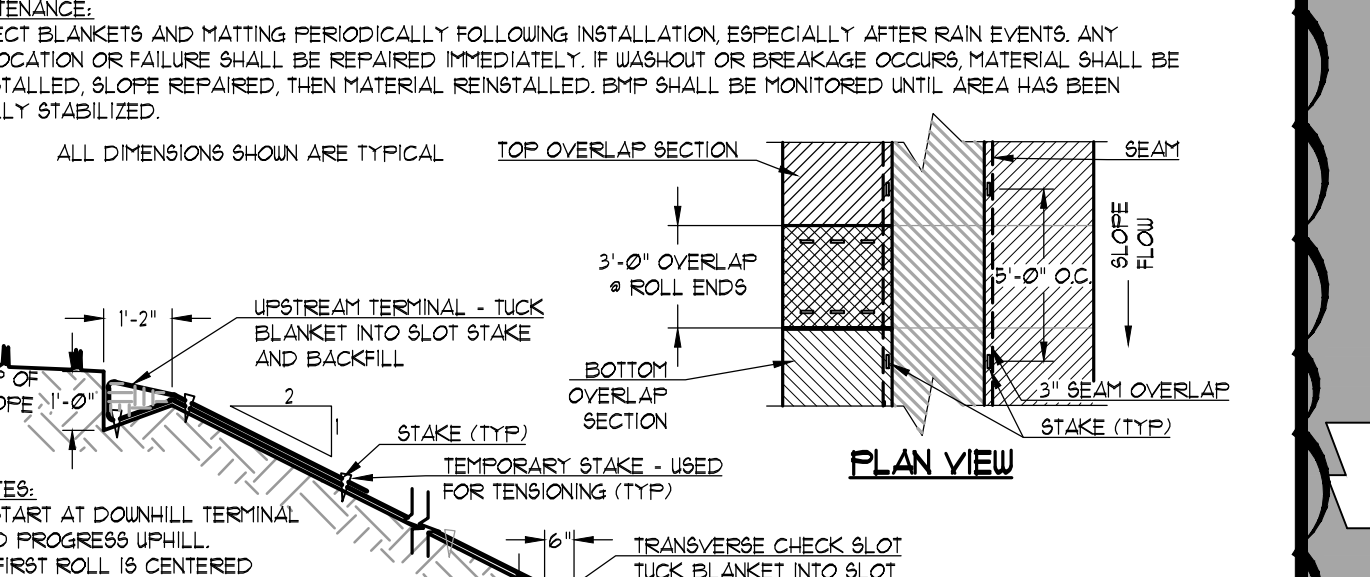
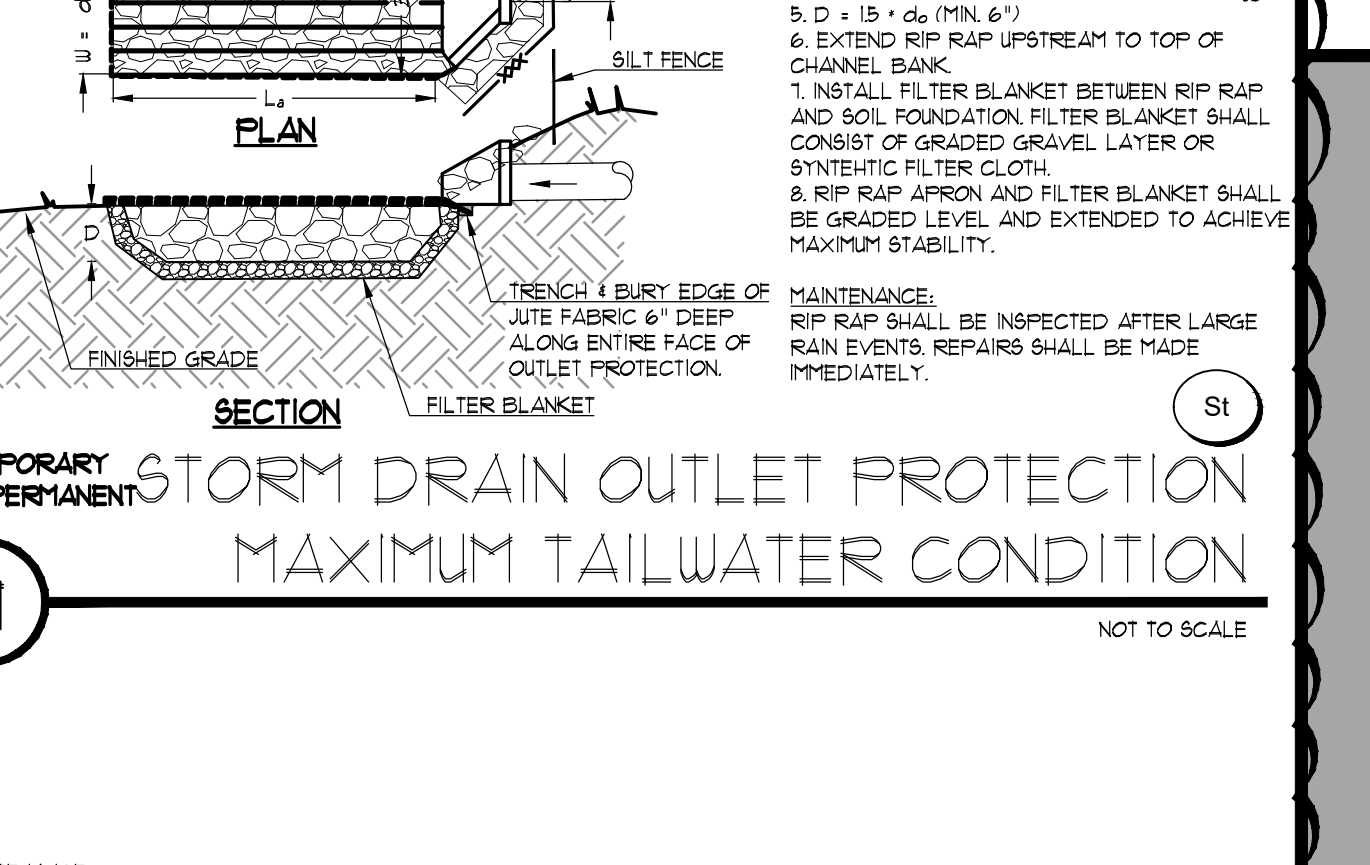
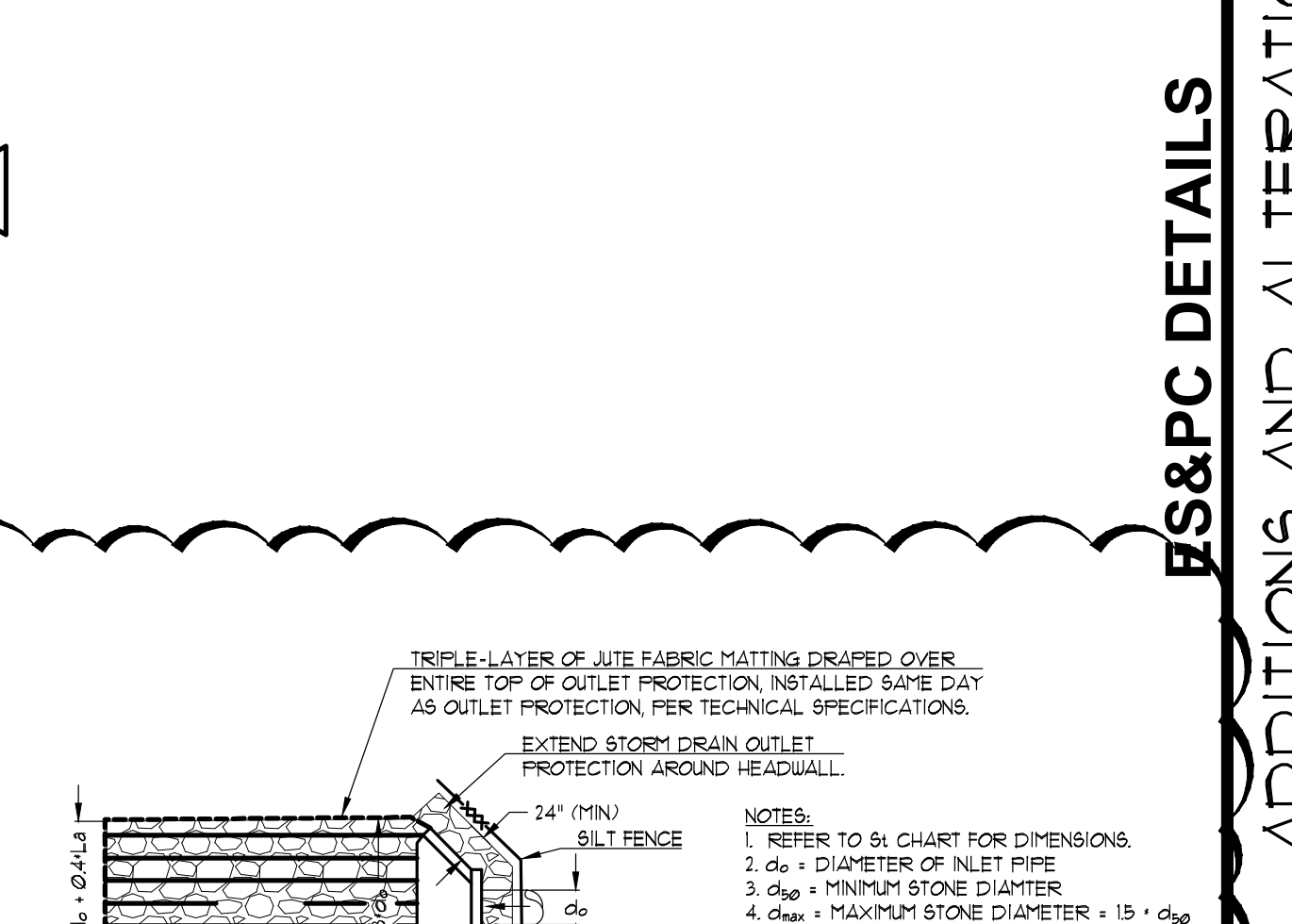
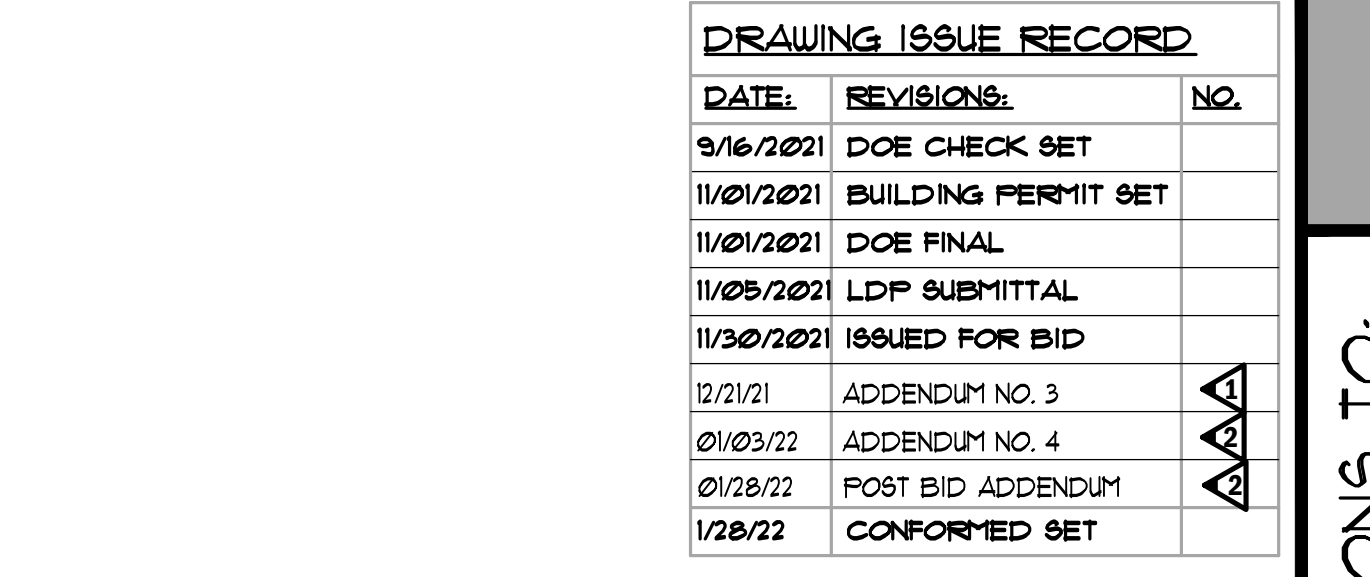
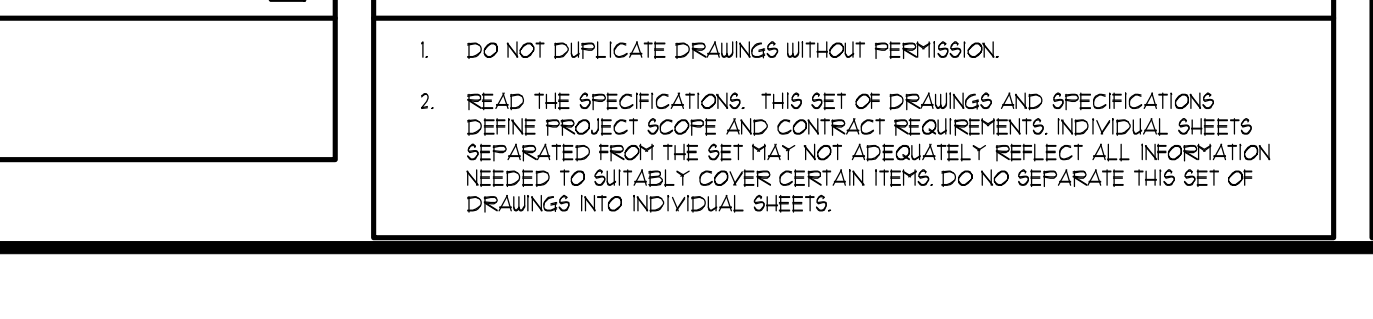
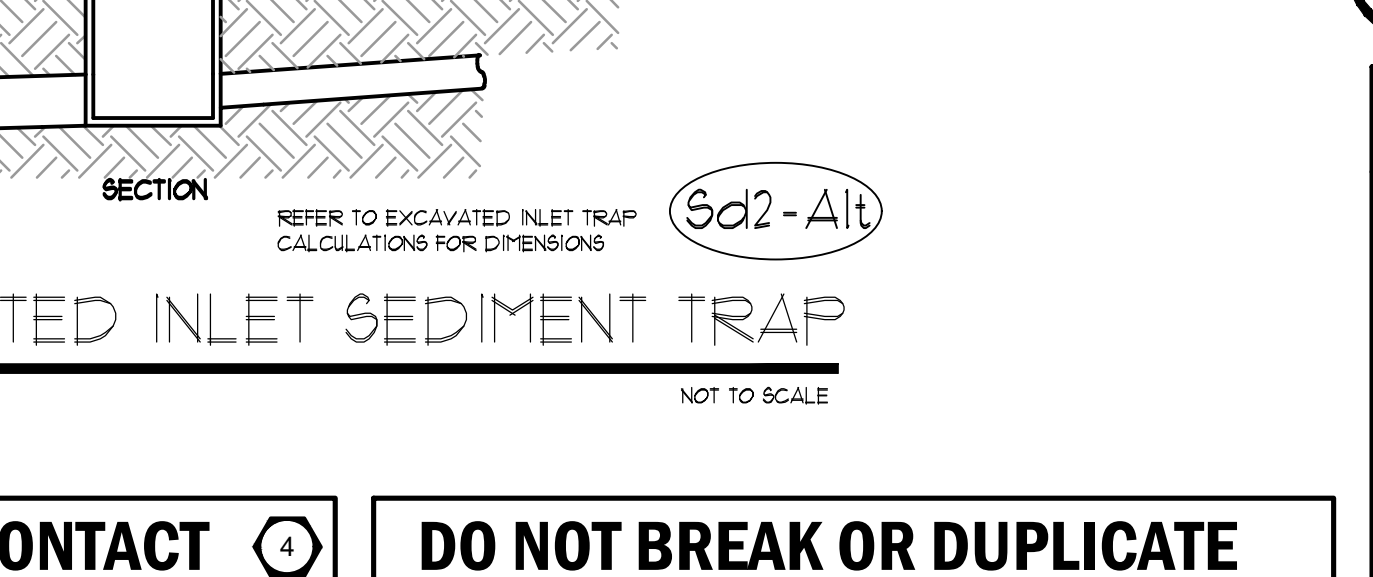
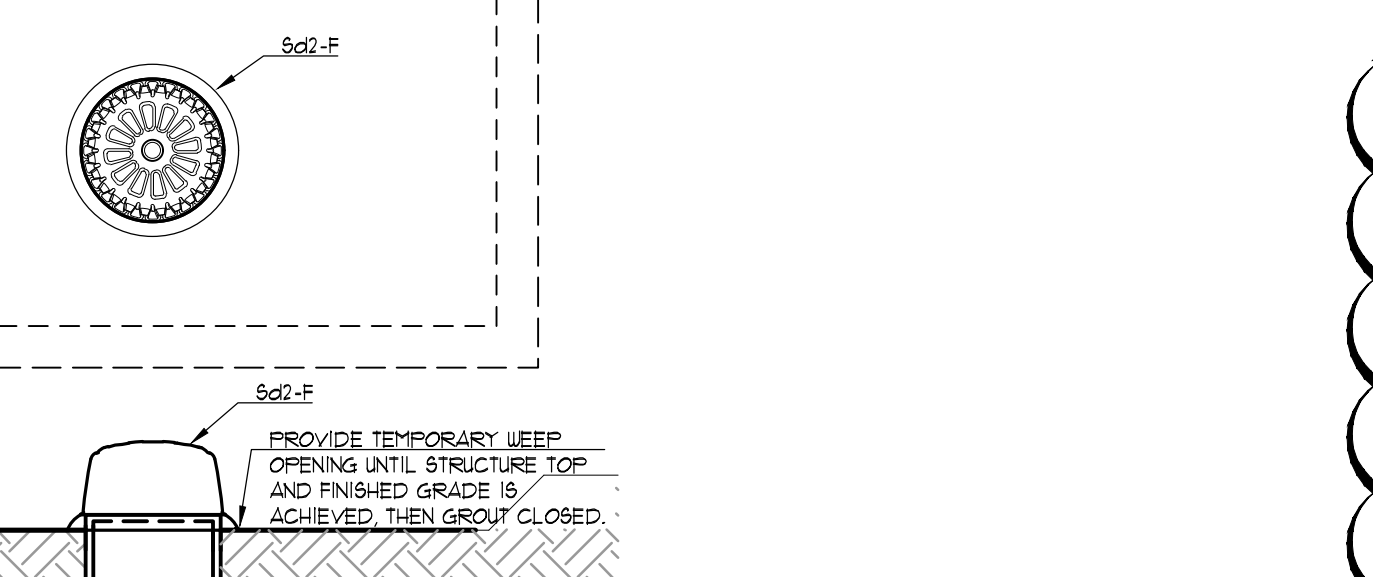
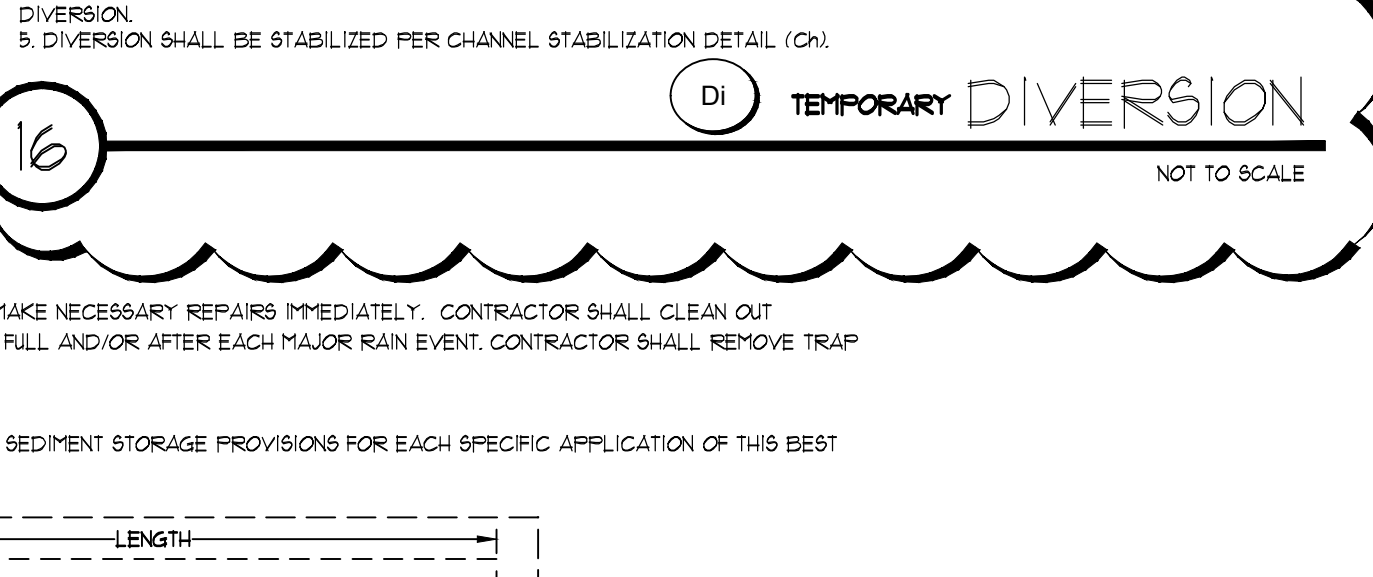
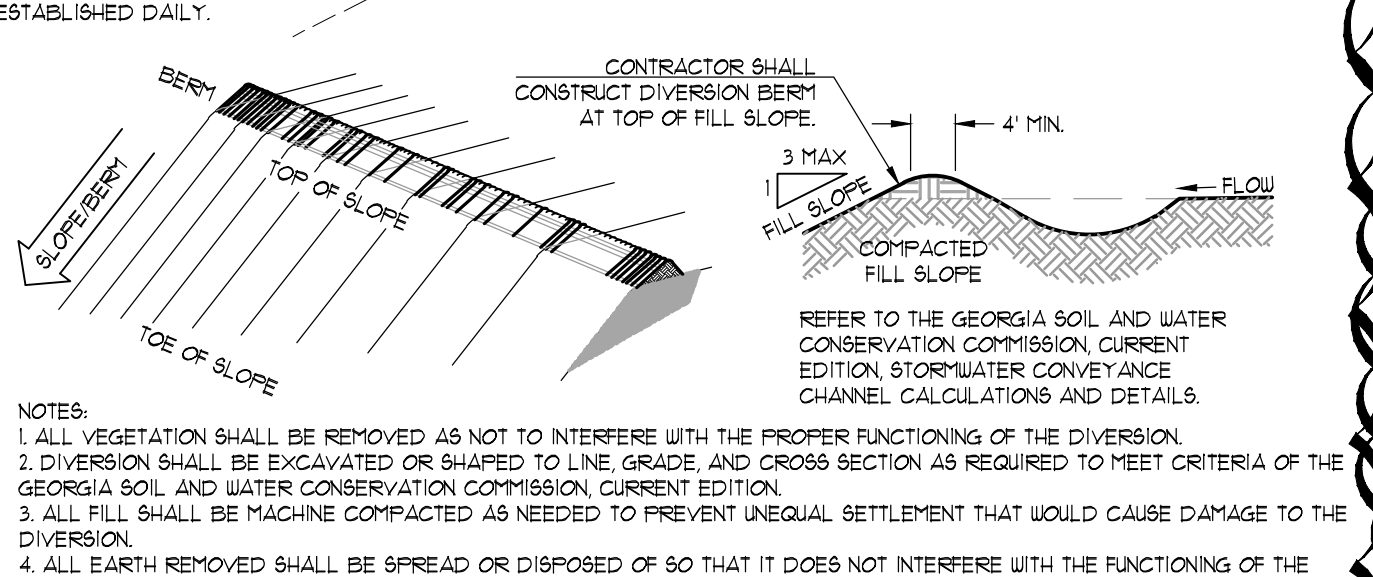
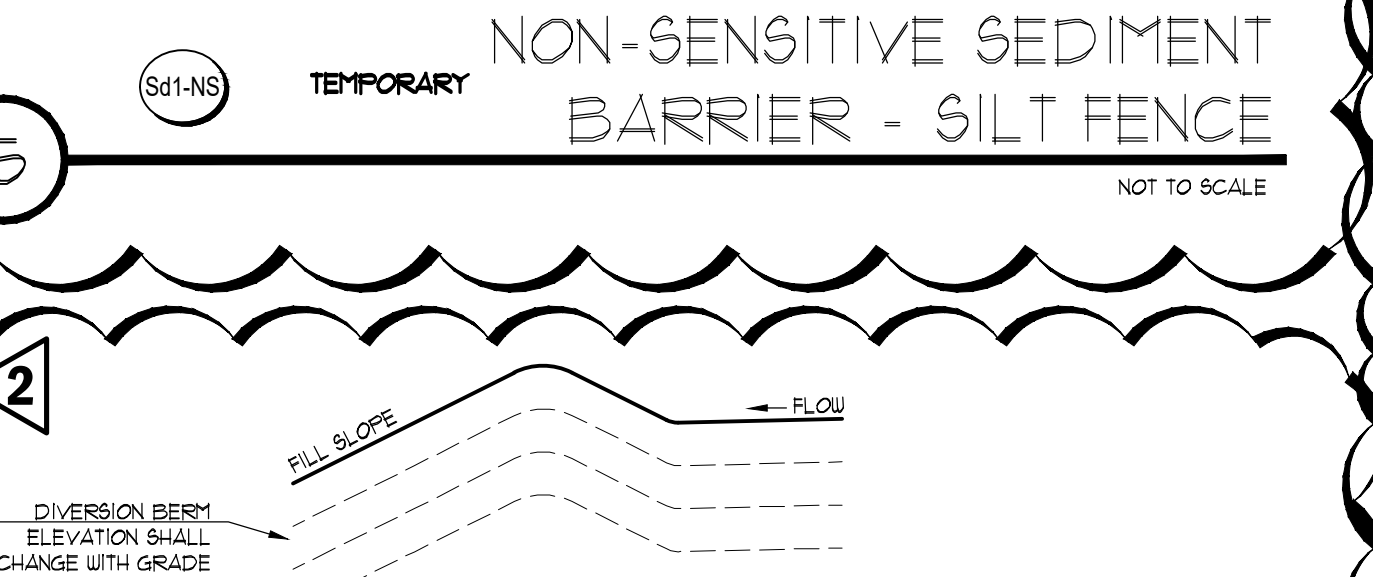
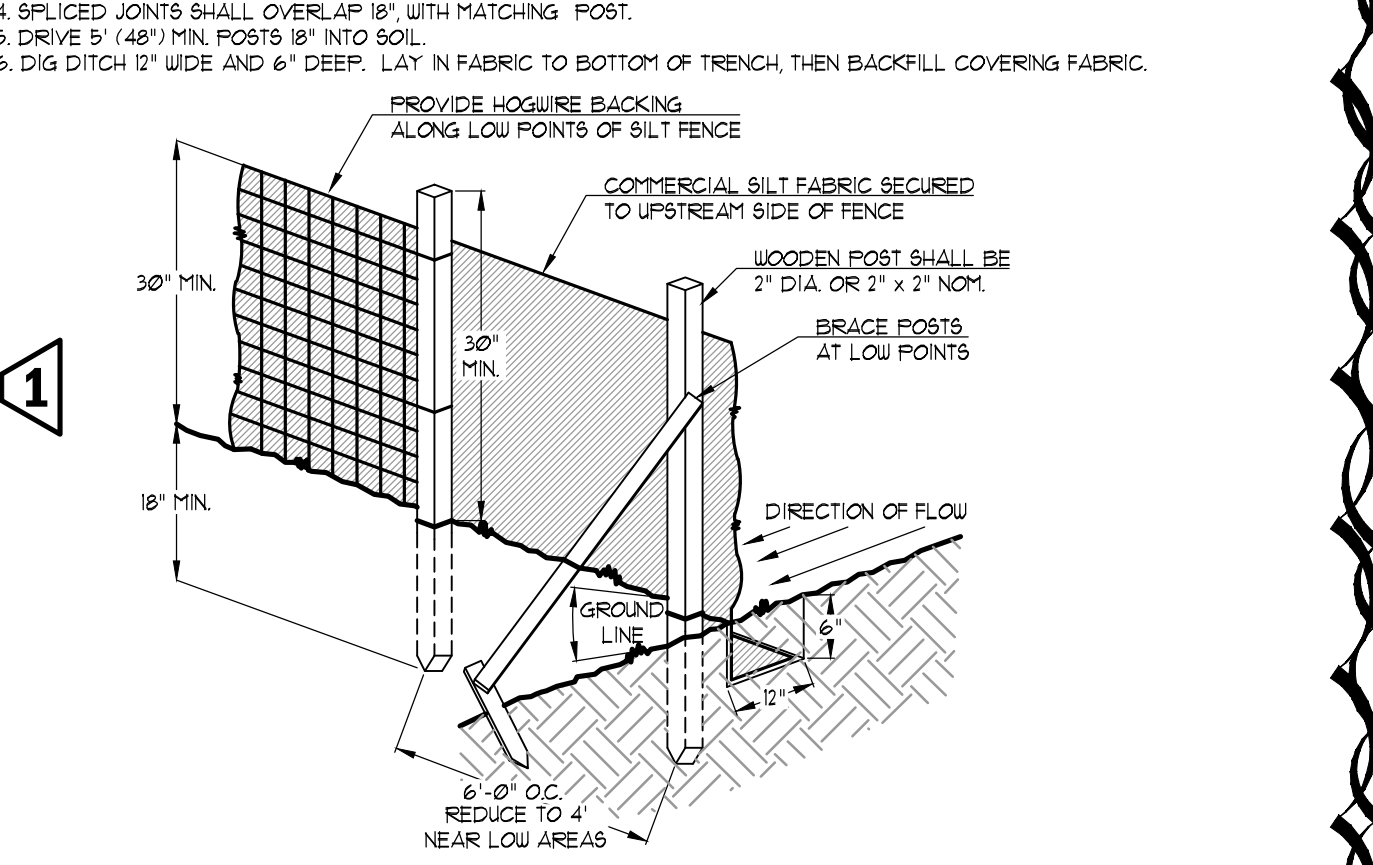
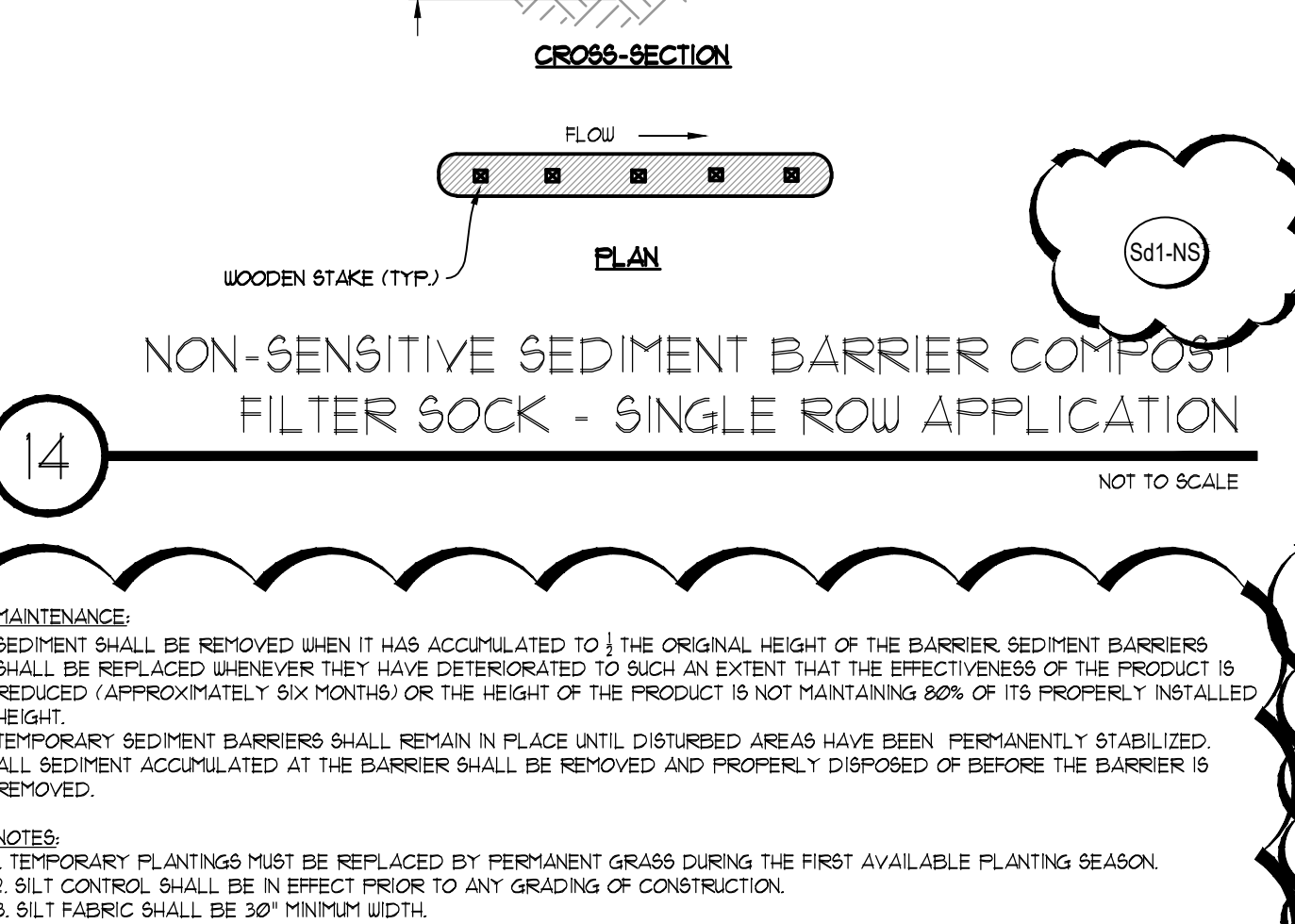
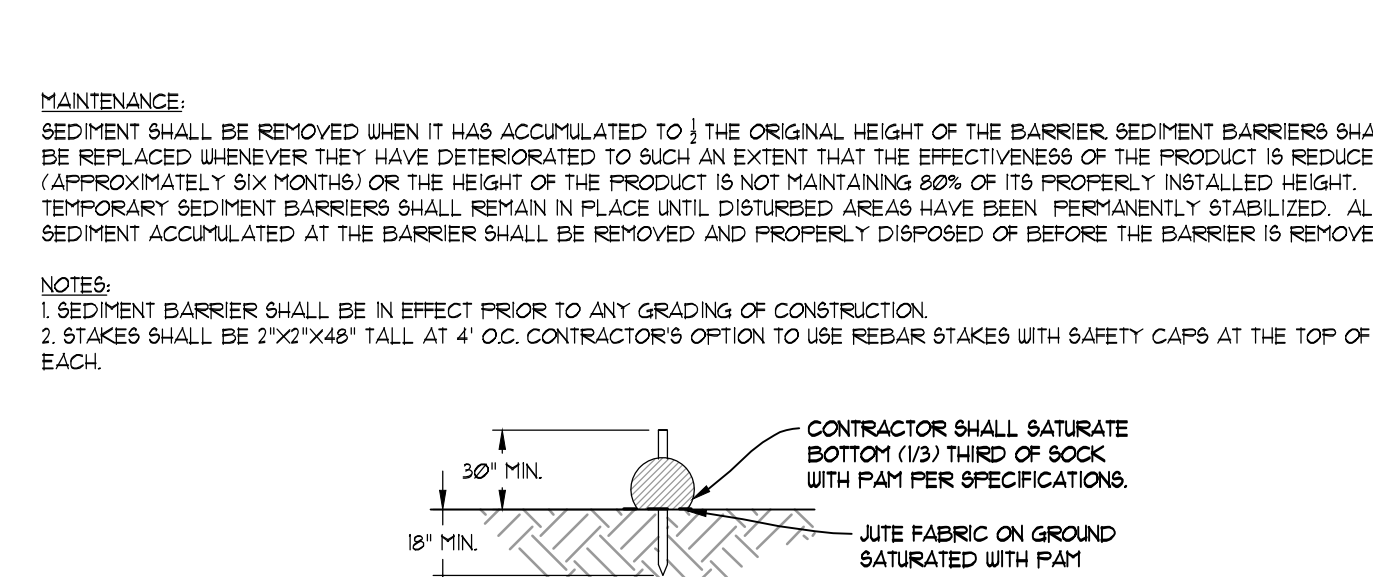
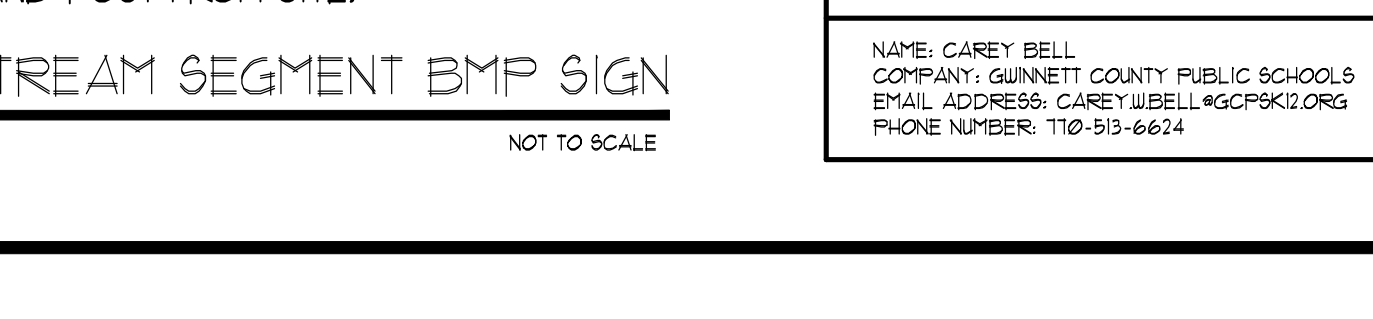
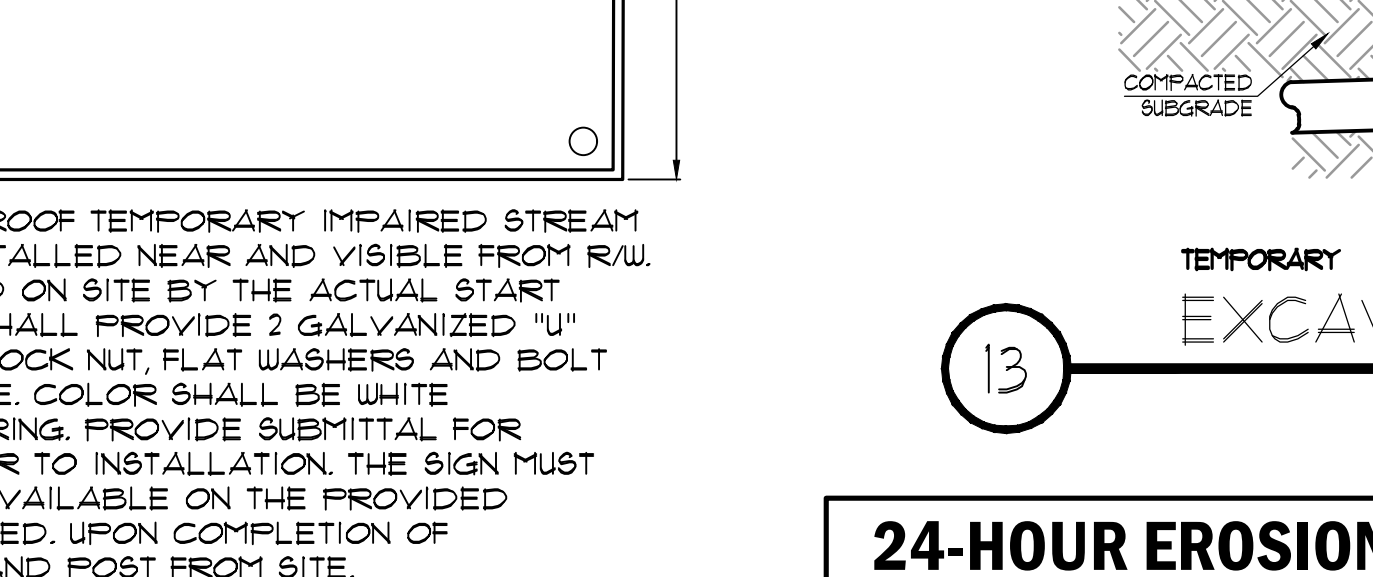
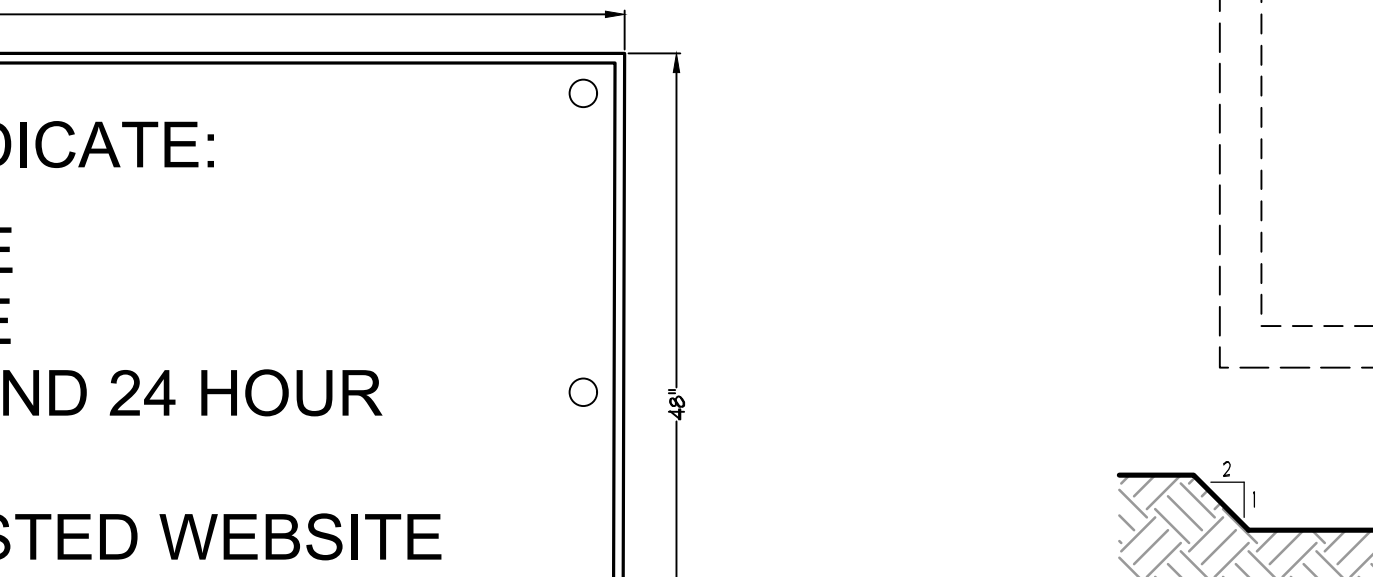
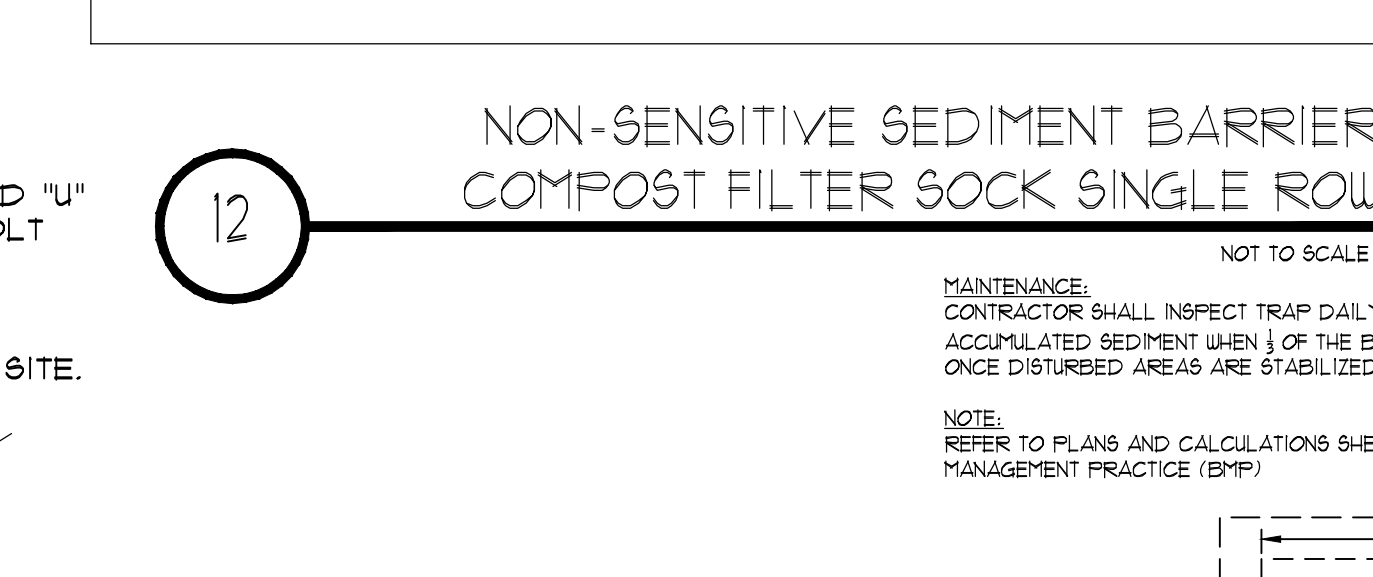
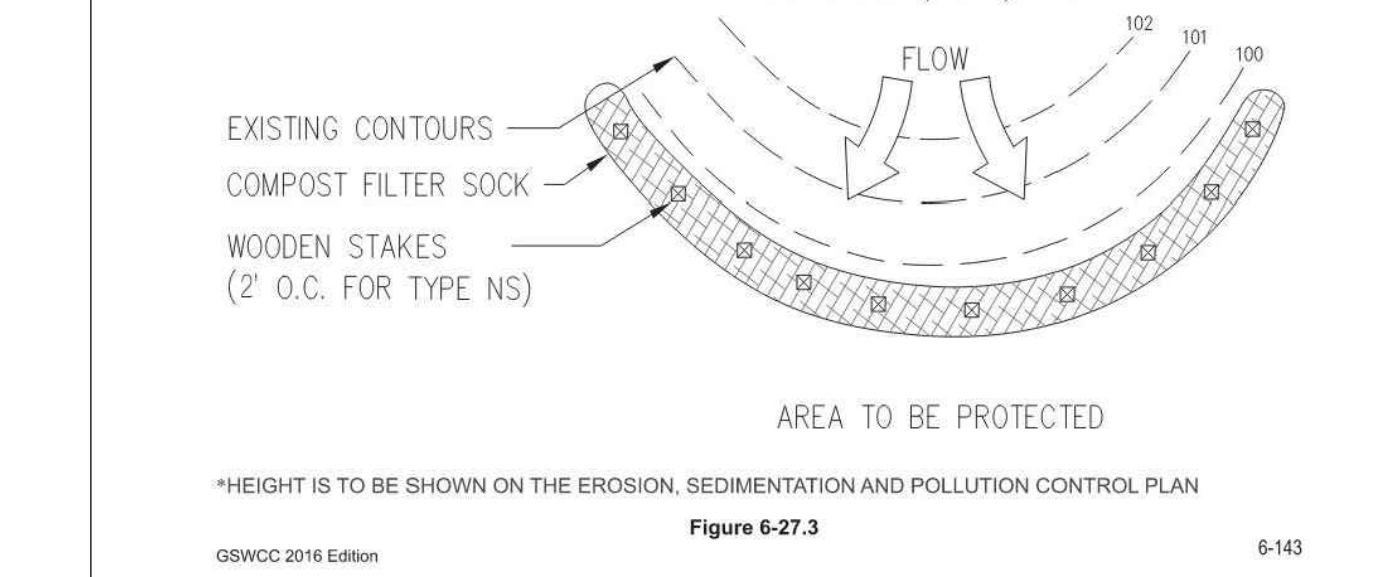
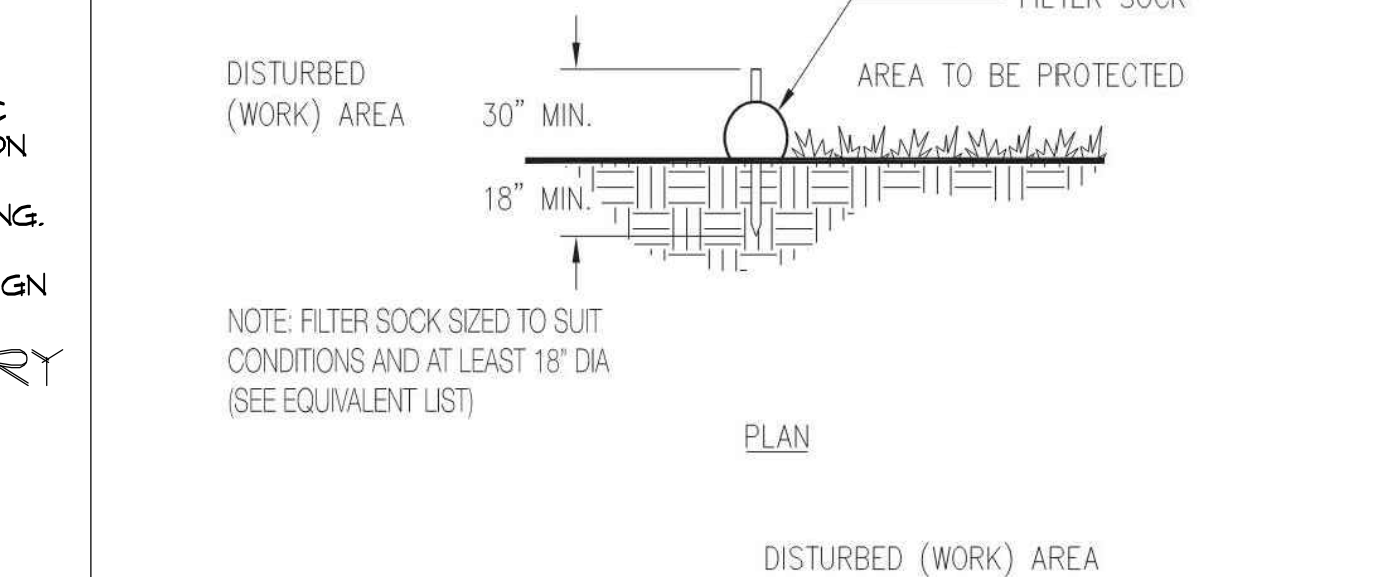
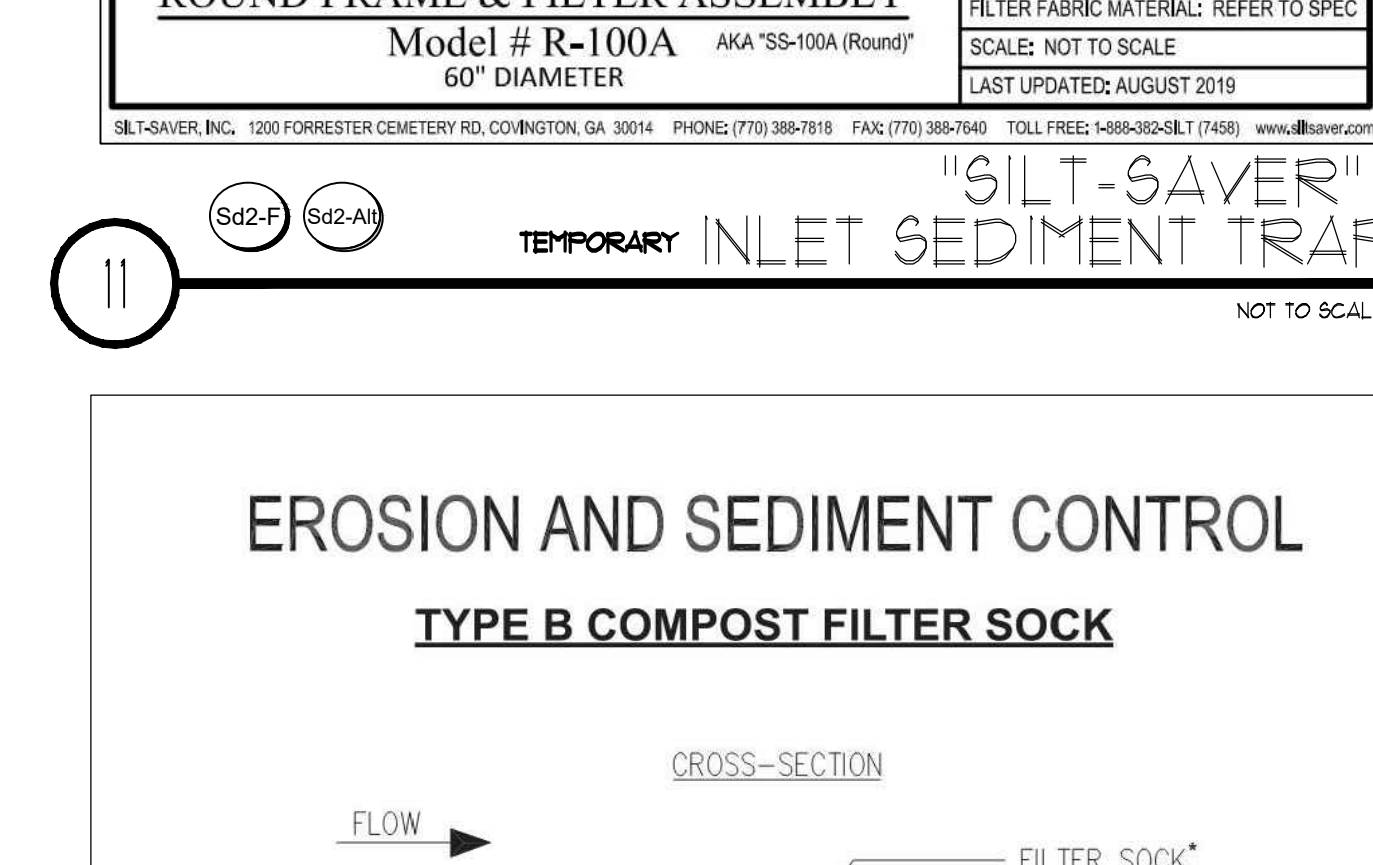
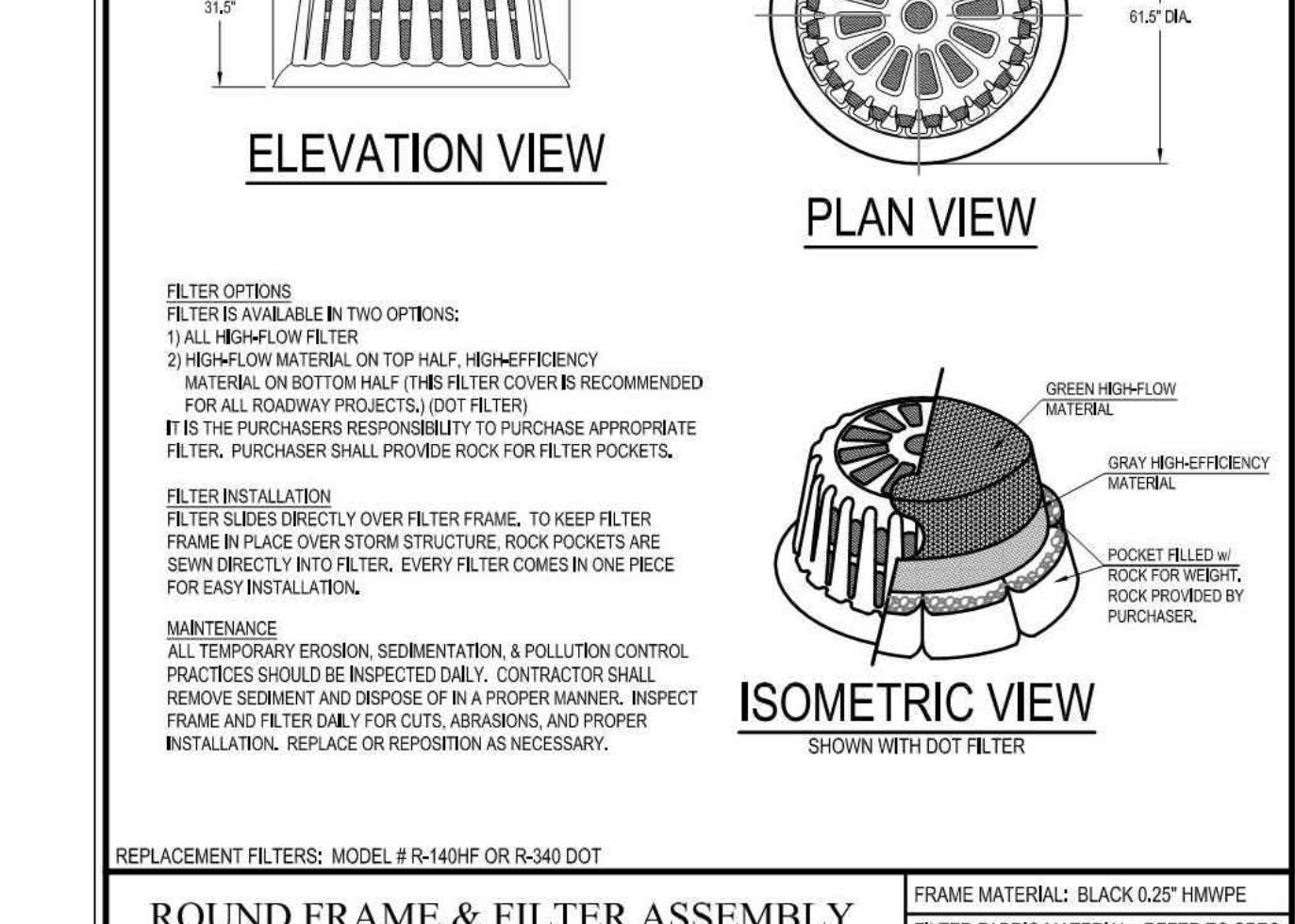
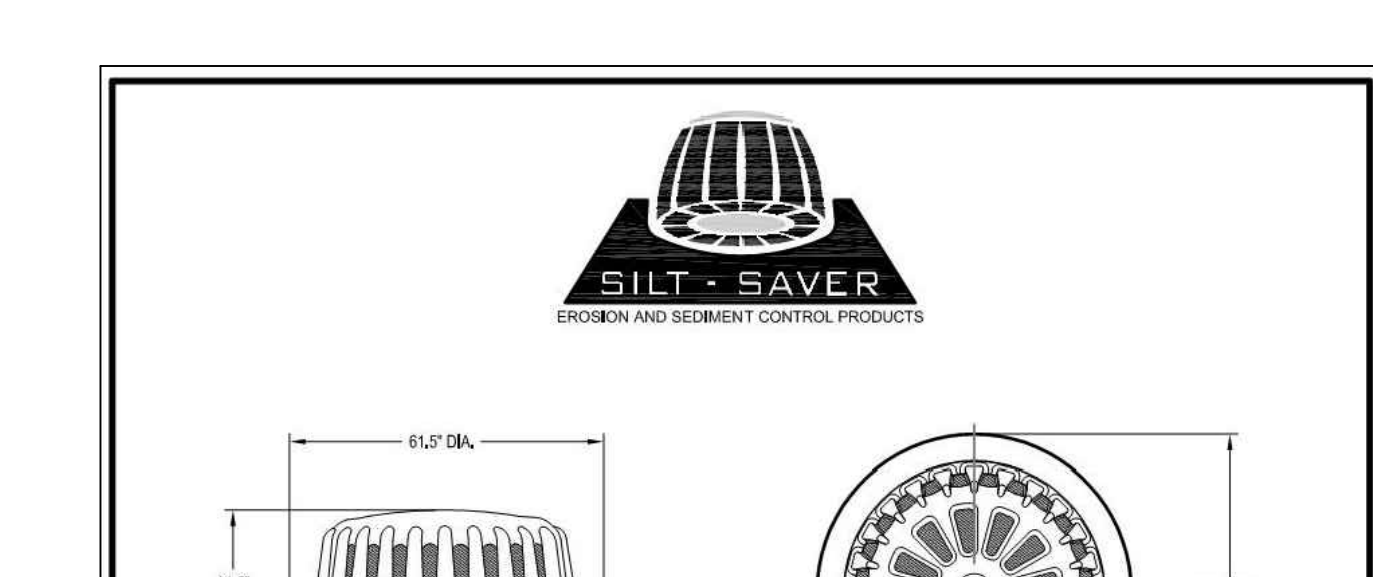
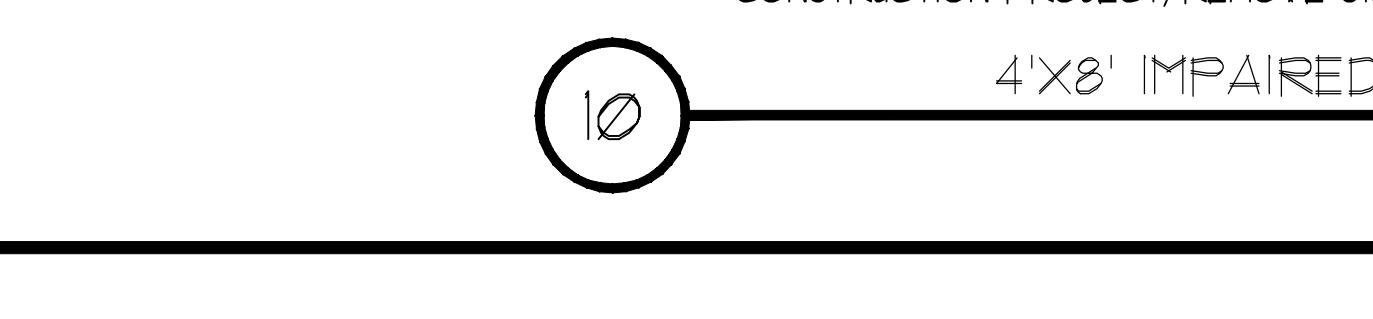
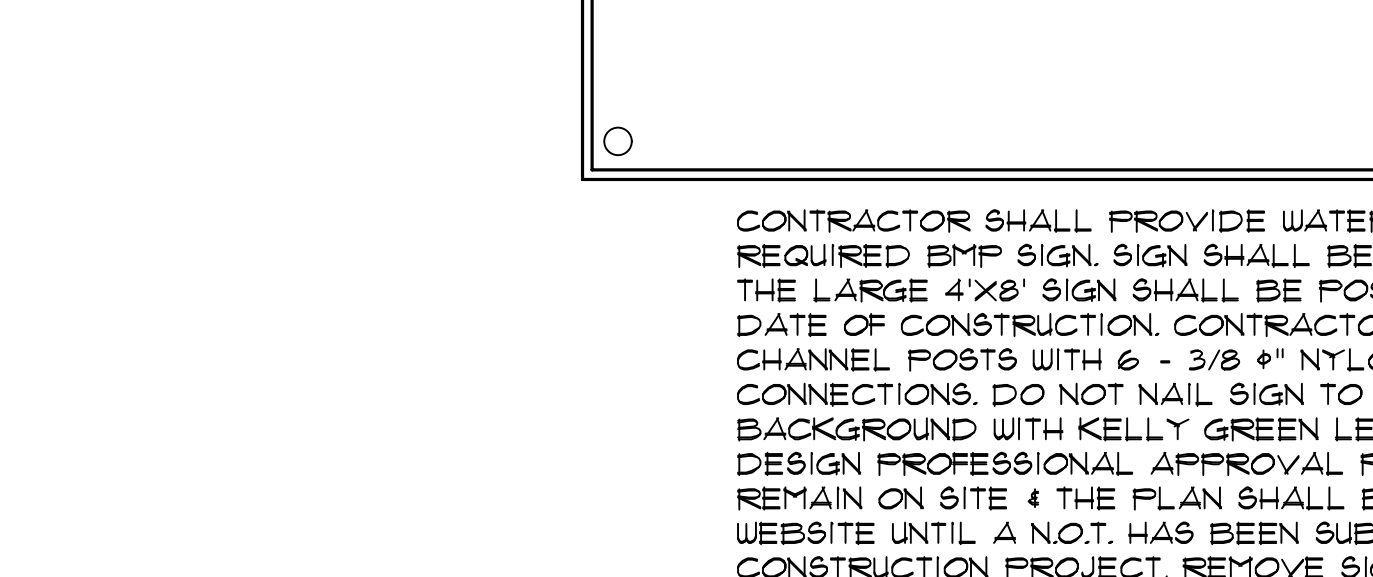
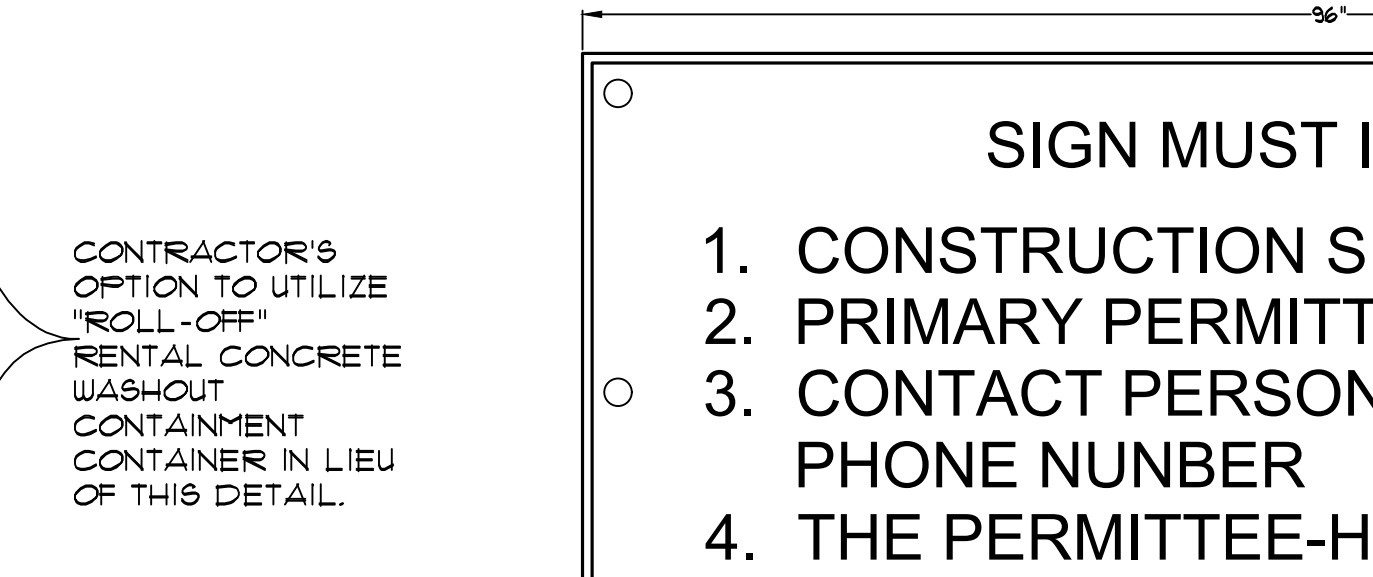
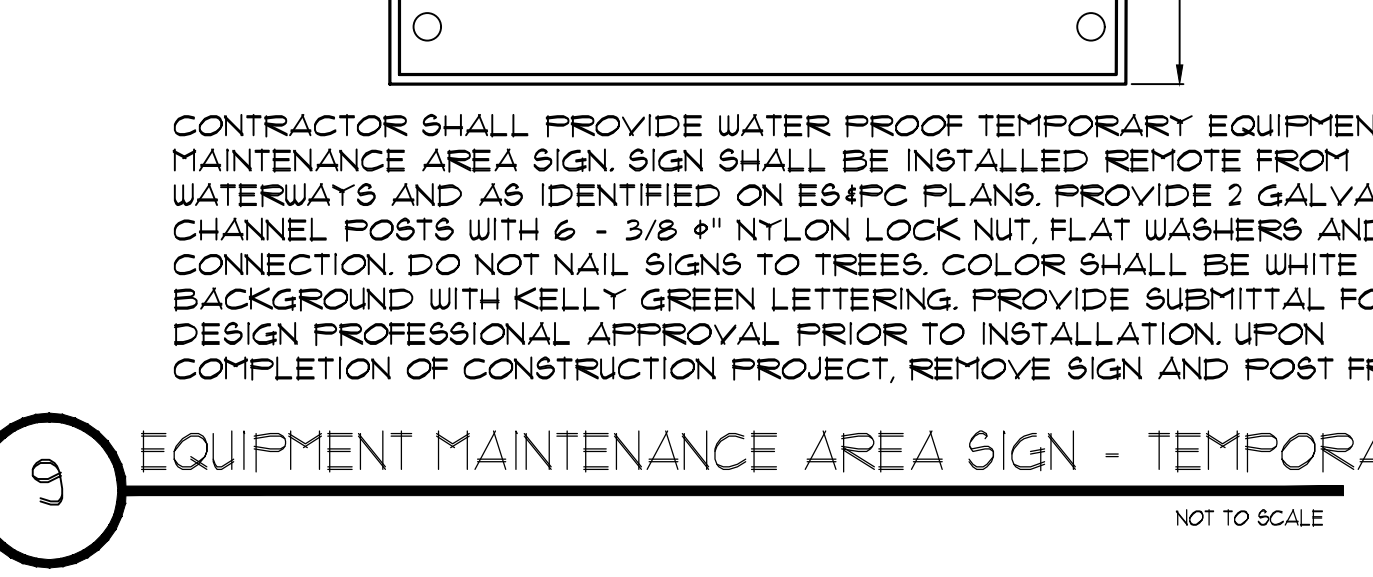
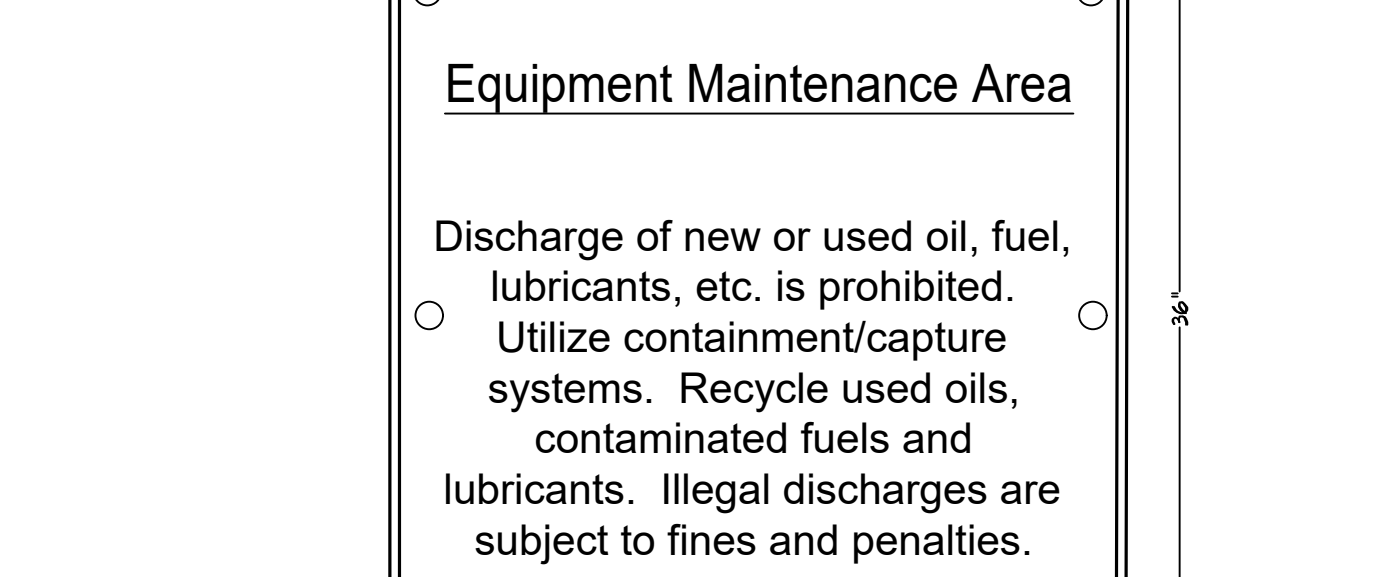
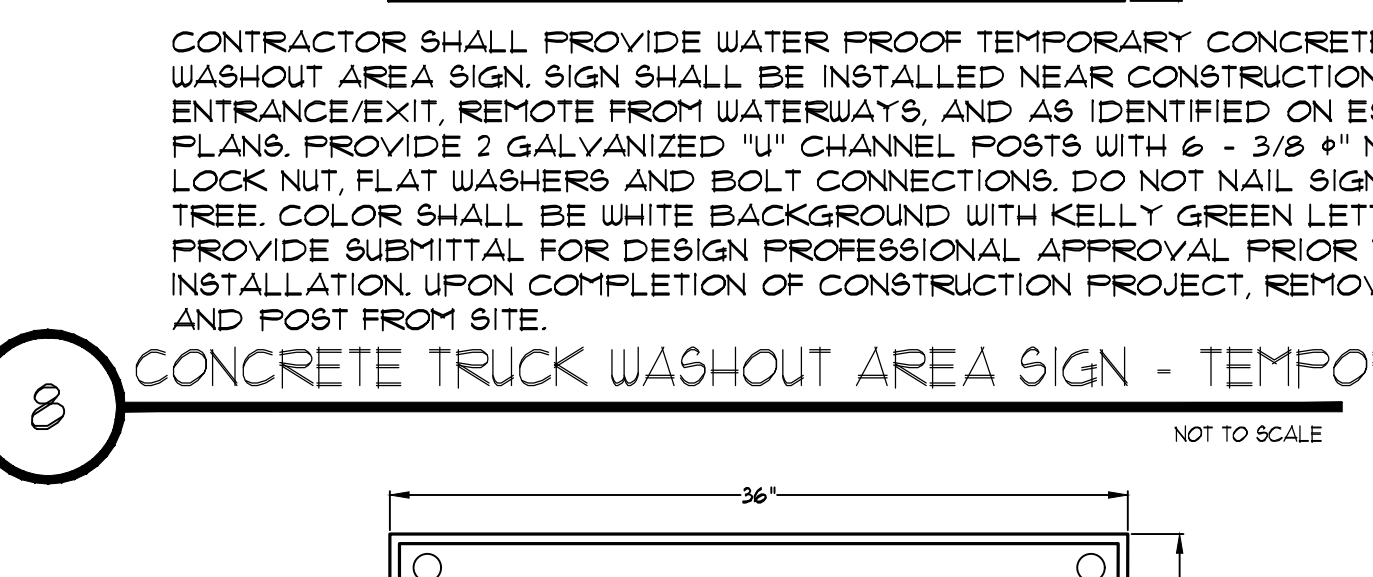
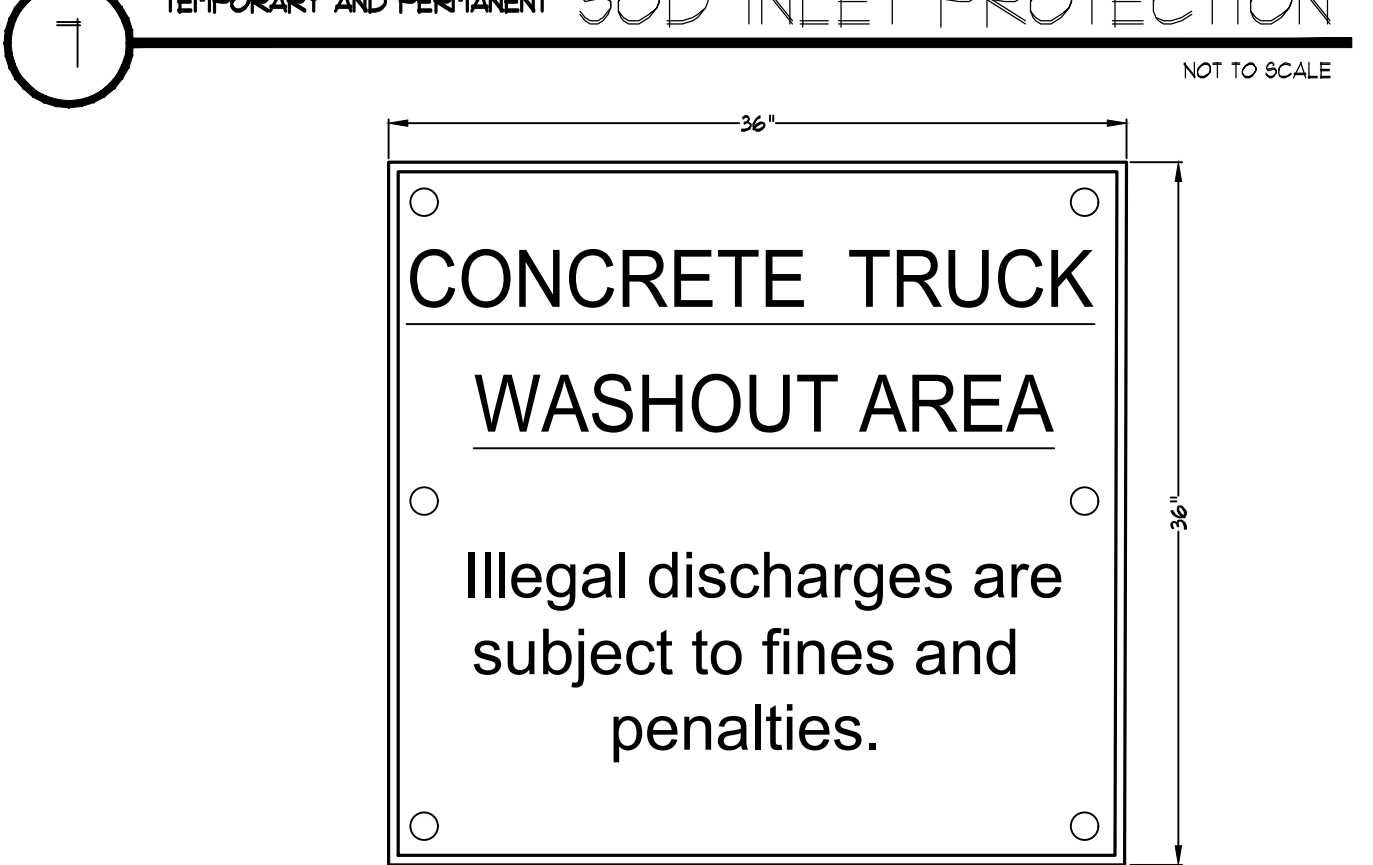
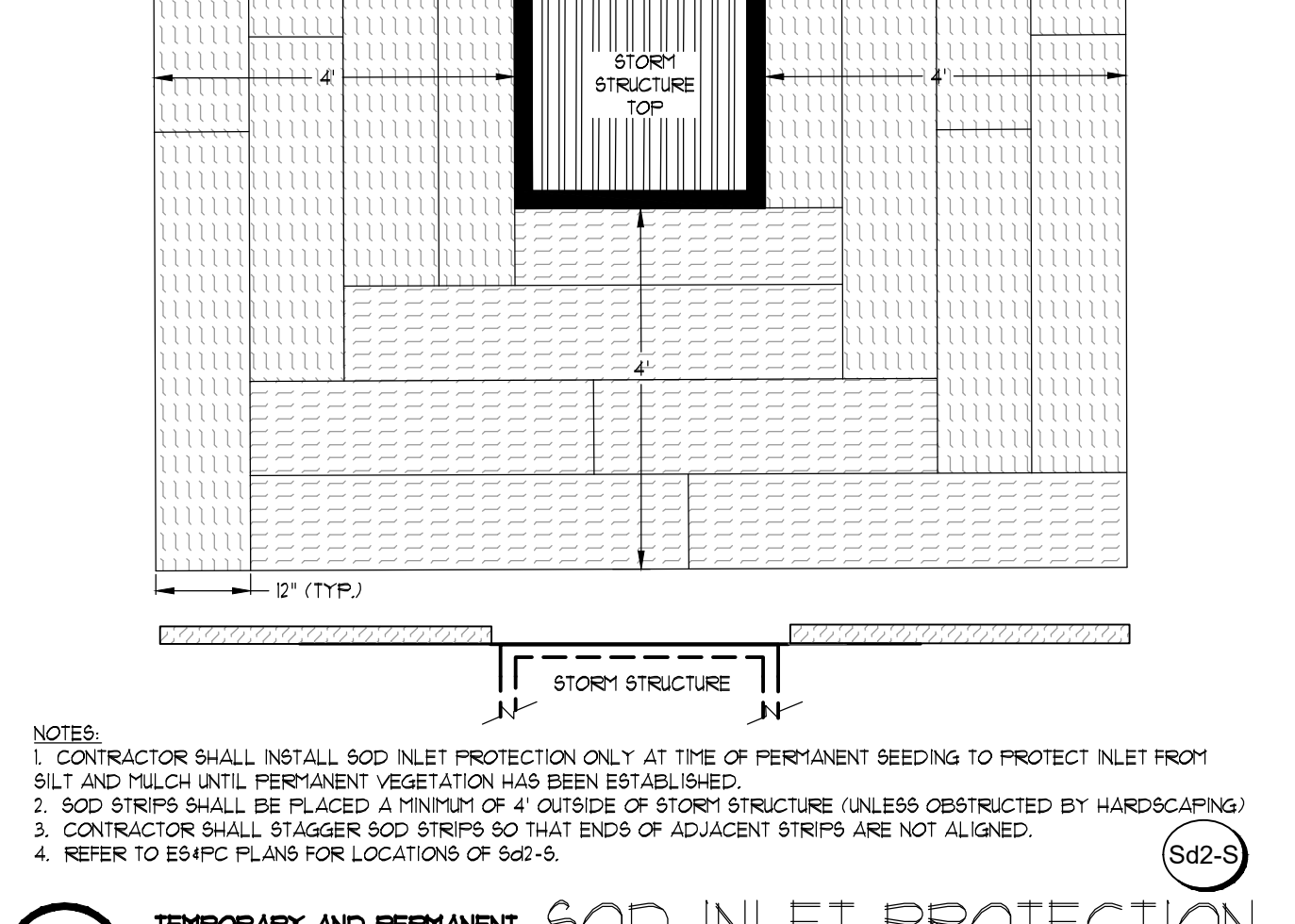
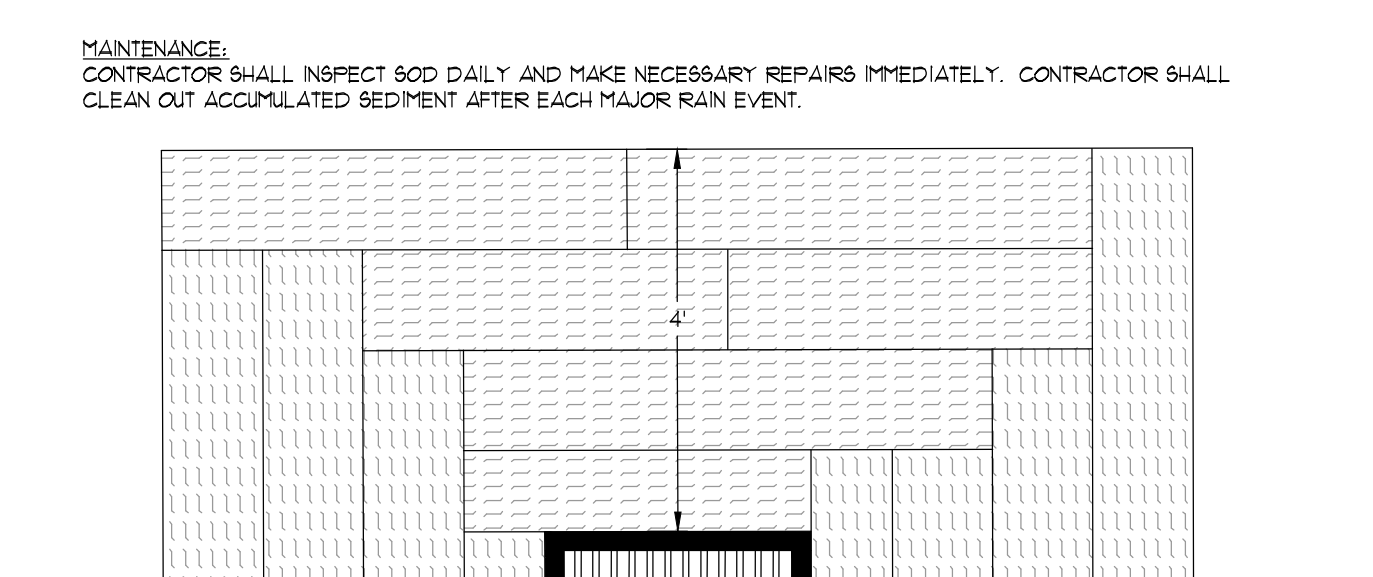
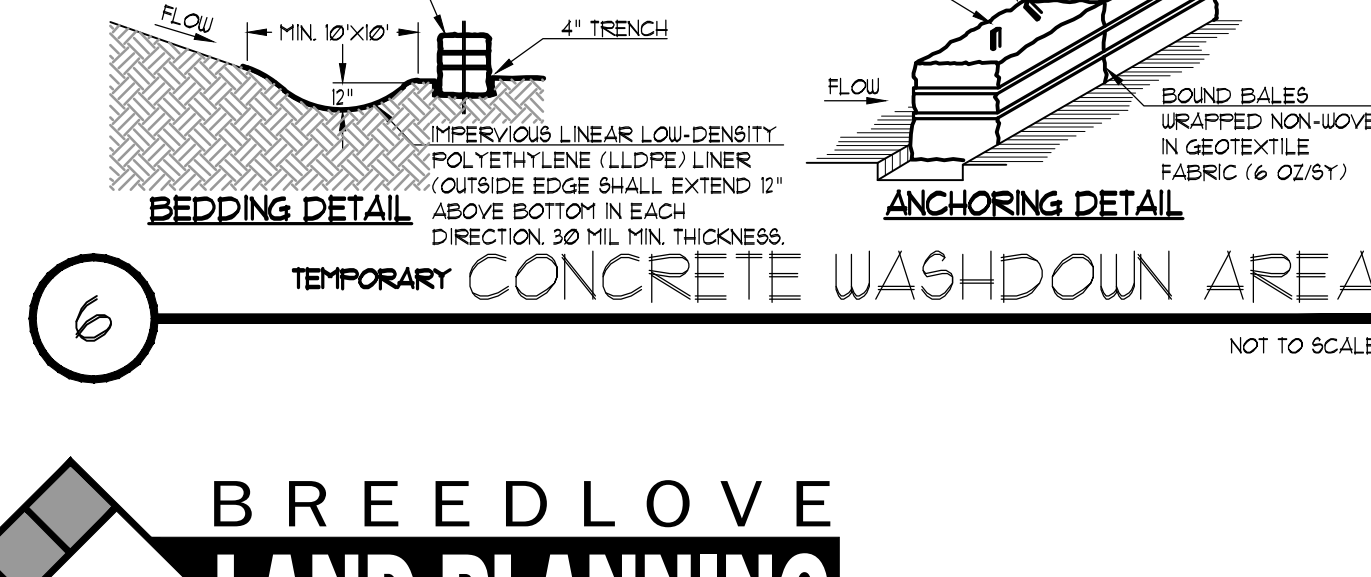
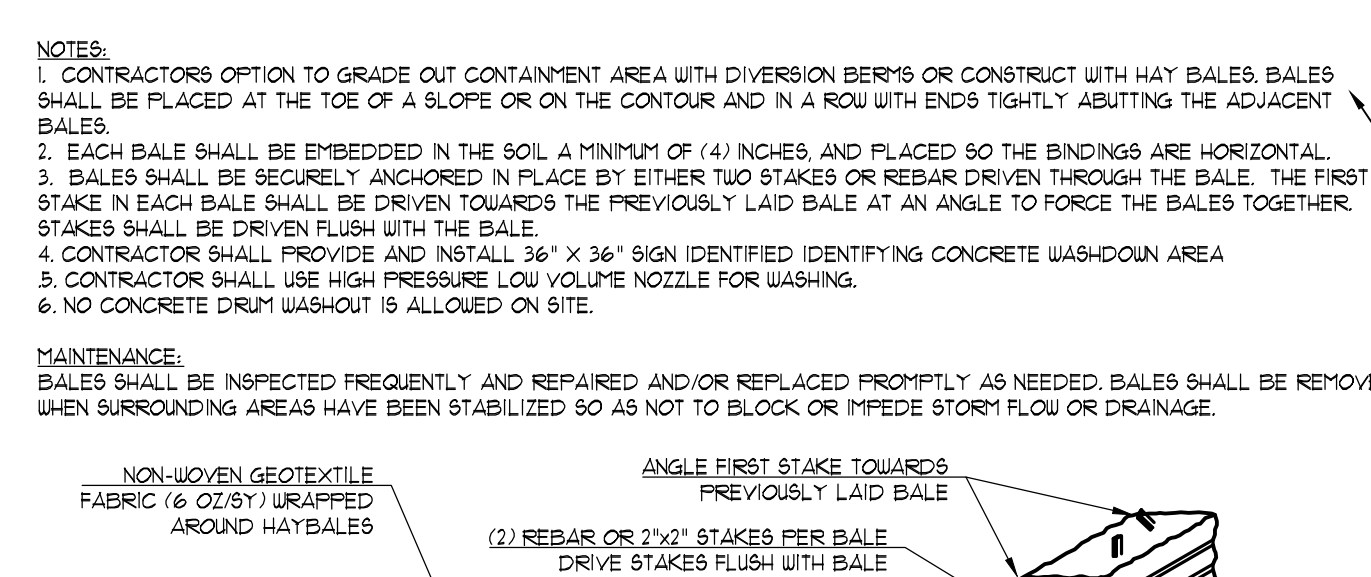
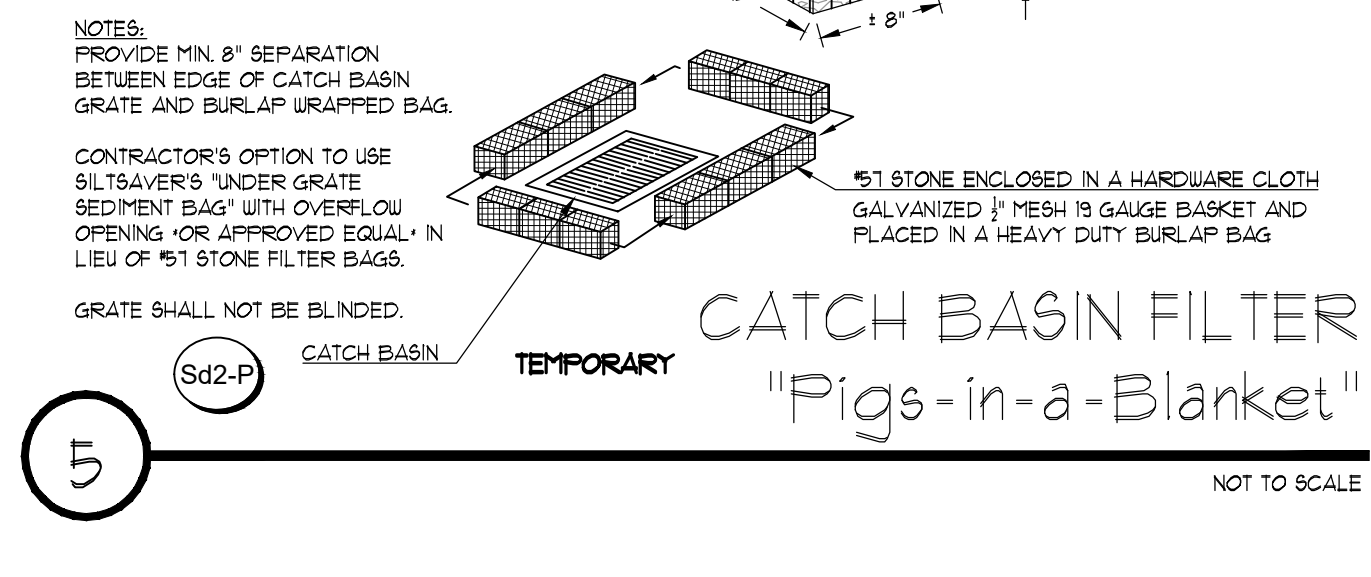
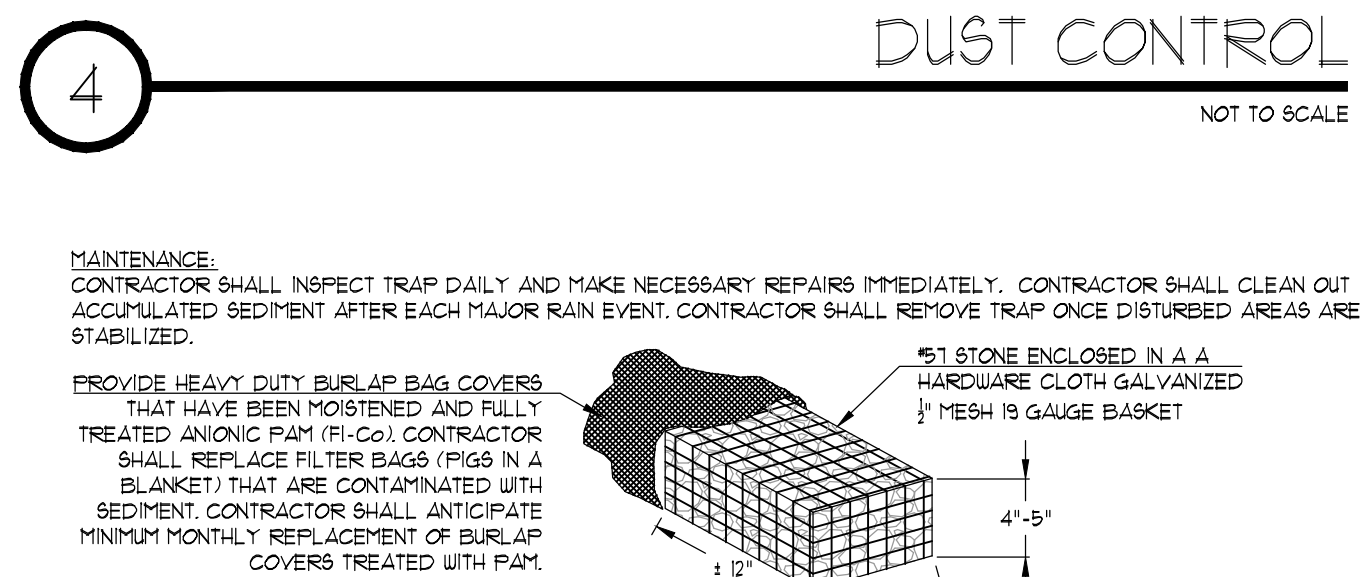
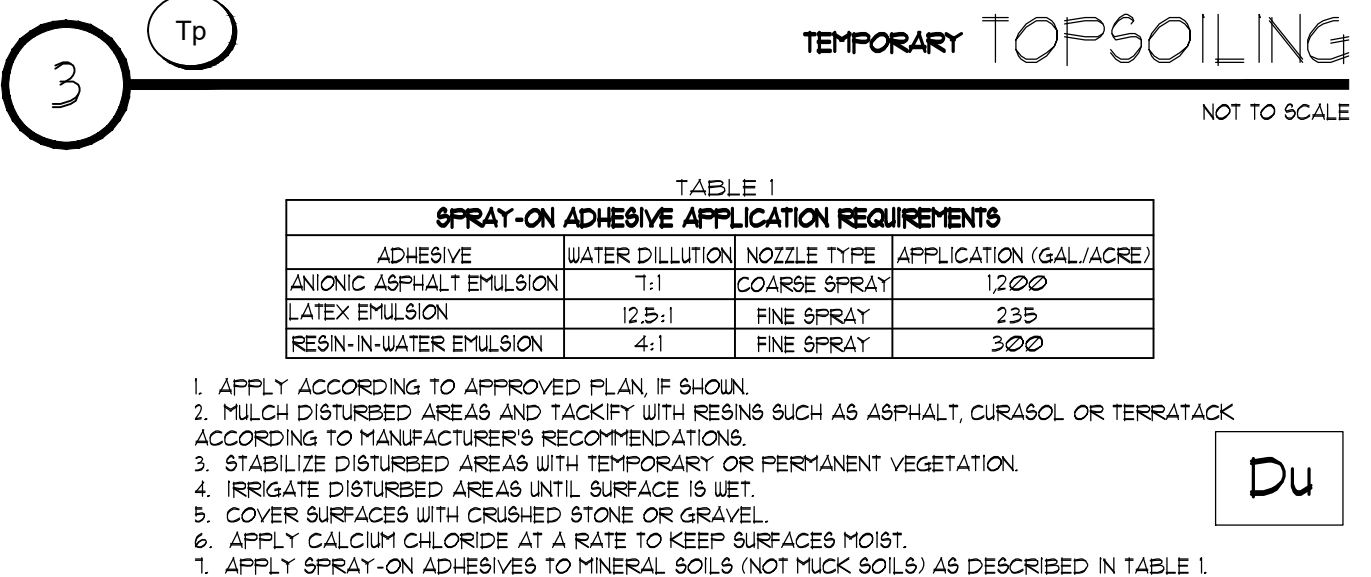
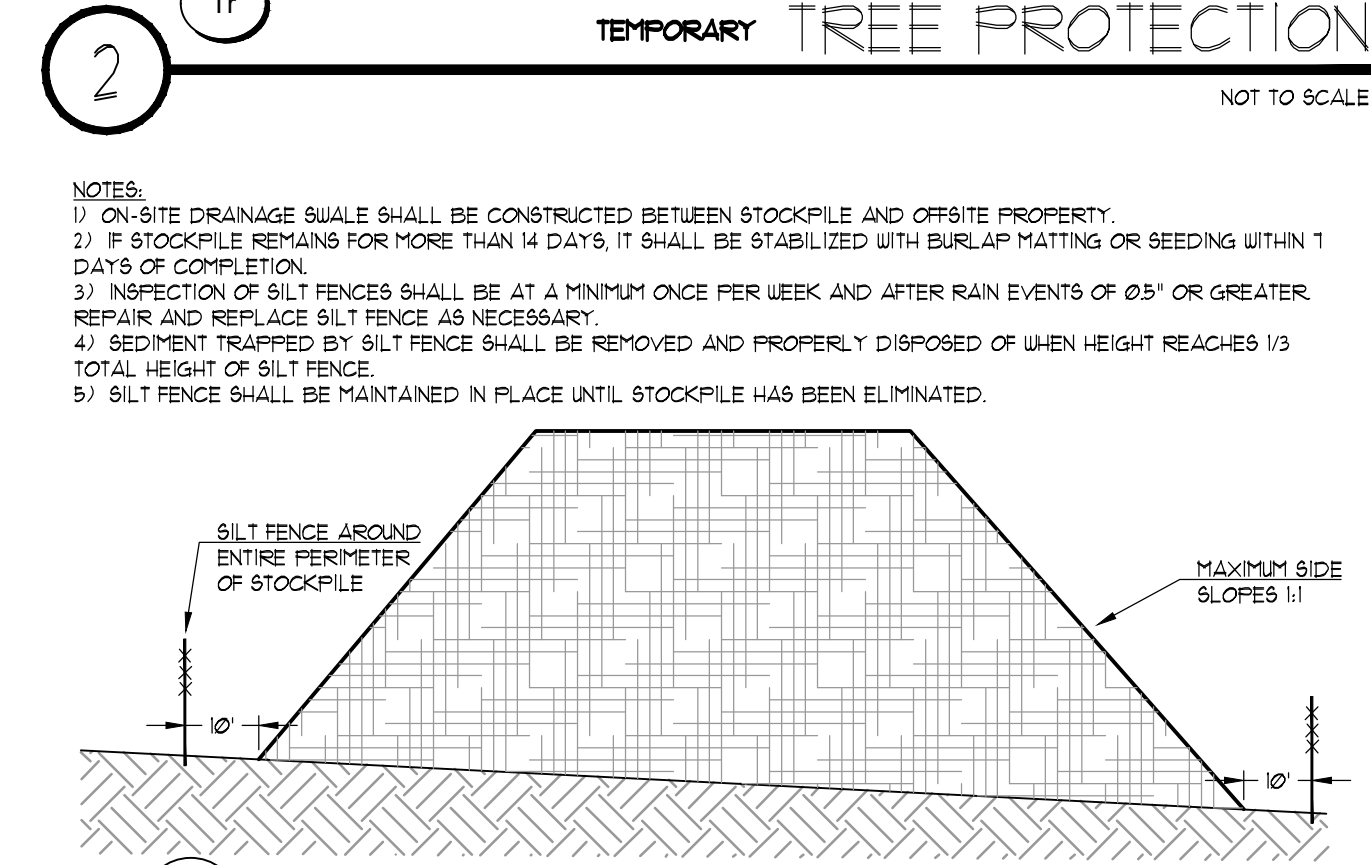
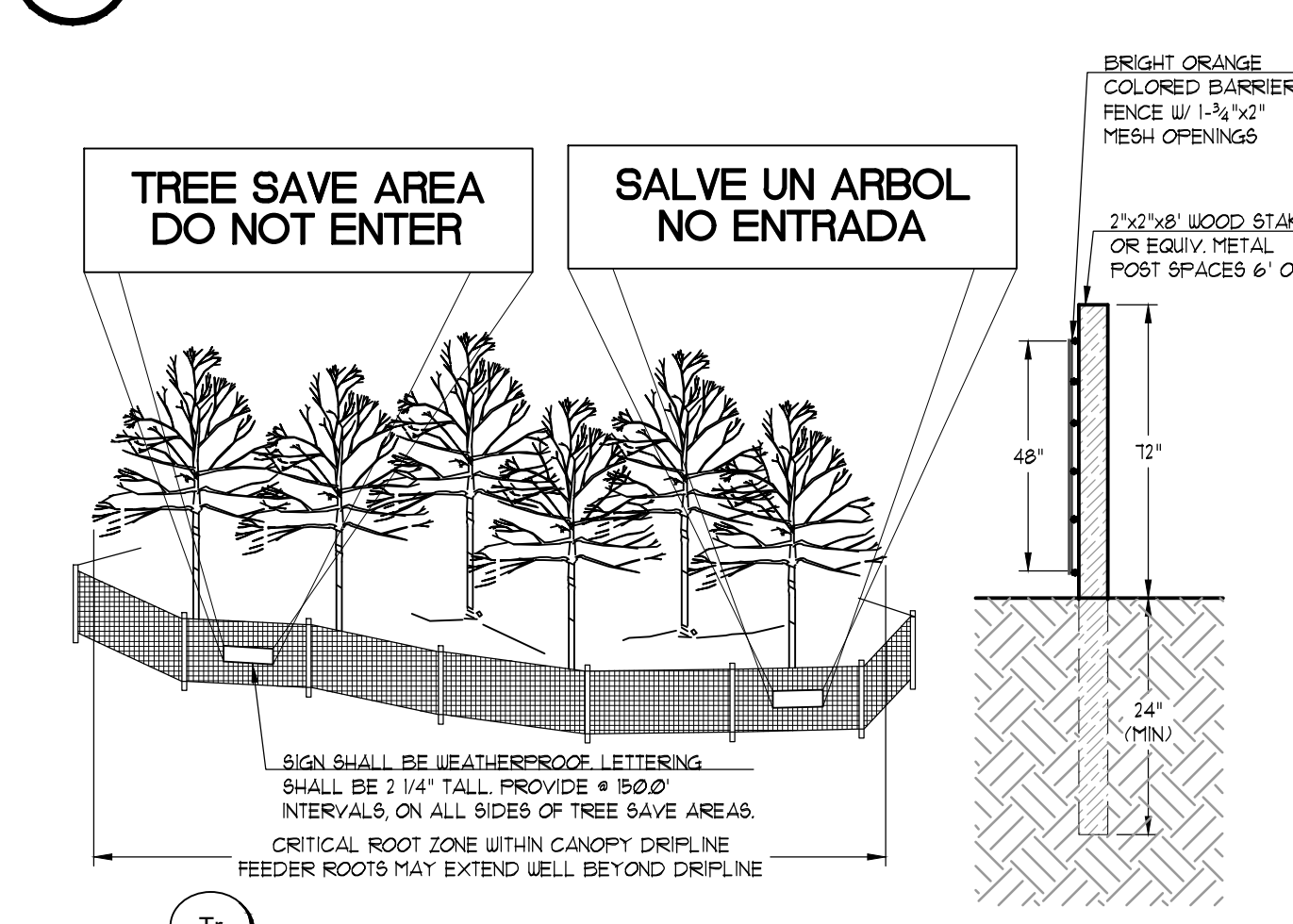
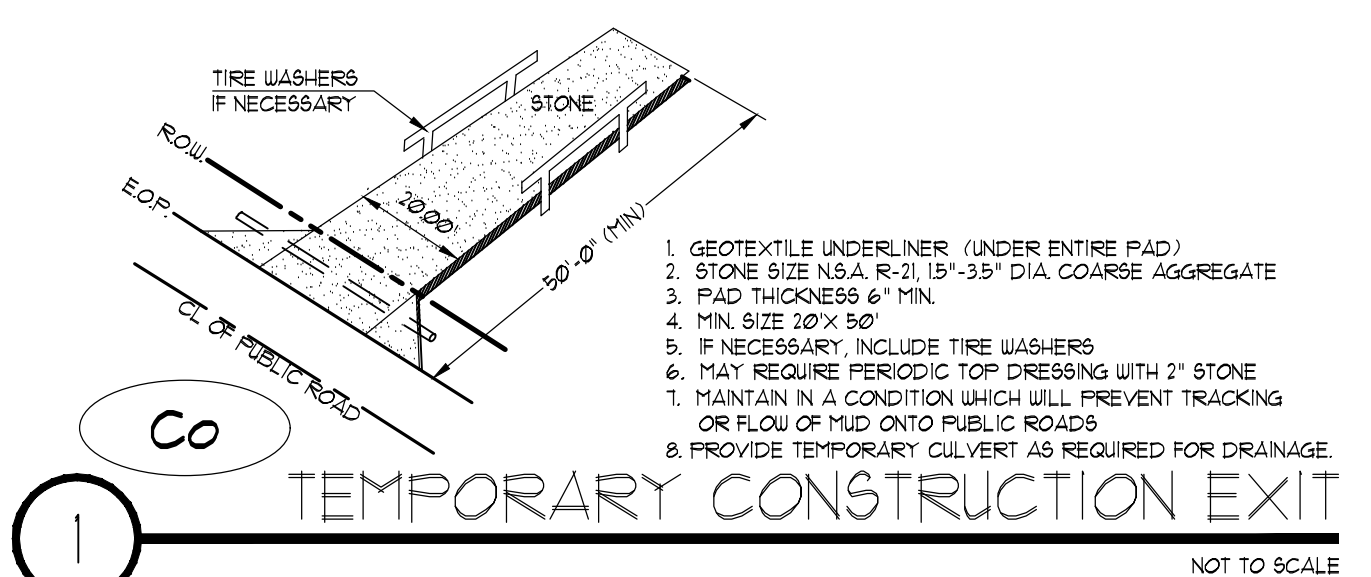


DATE	REVISIONS	NO
9/6/2021	DOE CHECK SET	
10/02/2021	BUILDING PERMIT SET	
10/02/2021	DOE FINAL	
11/05/2021	LDP SUBMITTAL	
11/21/21	ADDENDUM NO. 3	
01/03/22	ADDENDUM NO. 4	
01/28/22	POST BID ADDENDUM	
1/28/22	CONFORMED SET	

ADDITIONS AND ALTERATIONS TO:  
**NORTH GWINNETT HIGH SCHOOL**  
 220 LEVEL CREEK RD NW  
 FOF GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

JOB NO. SHL-208-15  
 DATE: AUGUST 1, 2020  
 DWG. BY: JRC  
 CK. BY: JCT  
 BREEDLOVE LAND PLANNING  
 30324 - phone (404) 873-2152  
 atlanta, georgia  
 n.e. - 2011 manchester street, inc. - 2011 manchester street, n.e. - atlanta, georgia  
 matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia

**ES&PC DETAILS**



**BREEDLOVE LAND PLANNING**  
 Landscape Architects • Civil Engineers  
 www.landplanning.net  
 BLP JOB# 21074

**CONCRETE TRUCK WASHOUT AREA**  
 Illegal discharges are subject to fines and penalties.

**EROSION AND SEDIMENT CONTROL**  
 TYPE B COMPOST FILTER SOCK

**NON-SENSITIVE SEDIMENT BARRIER**  
 COMPOST FILTER SOCK SINGLE ROW

**TEMPORARY DIVERSION**

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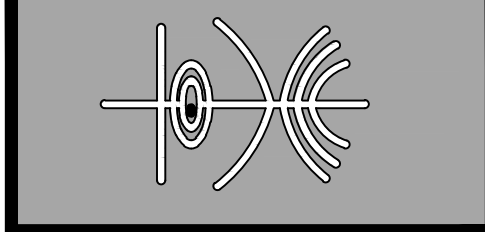
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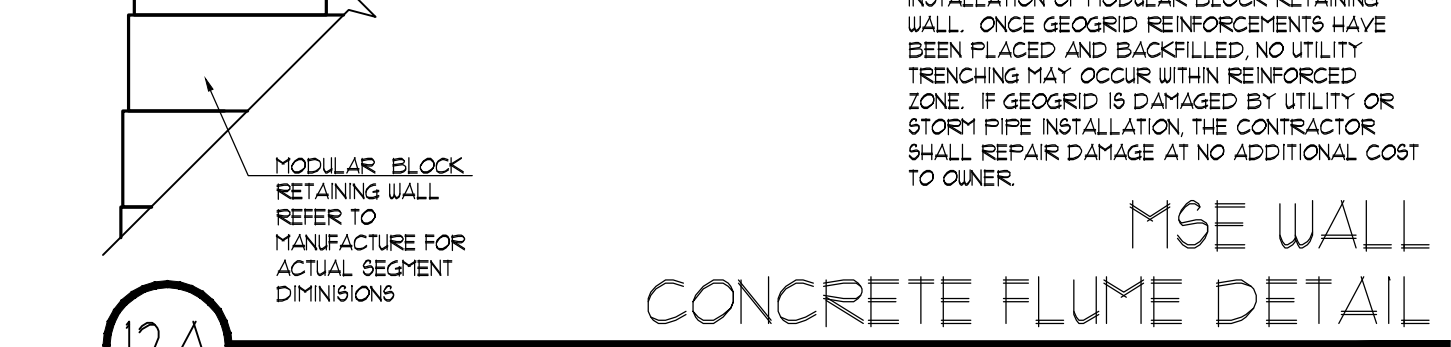
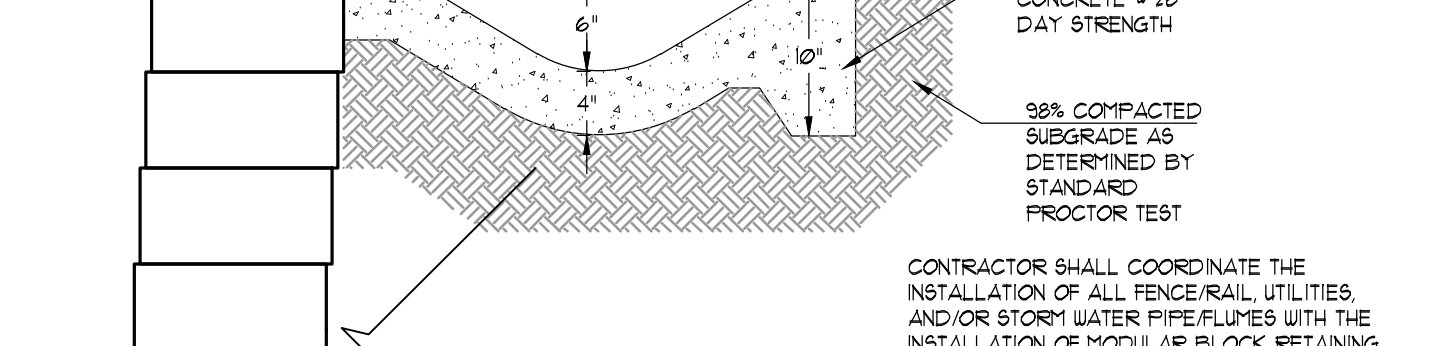
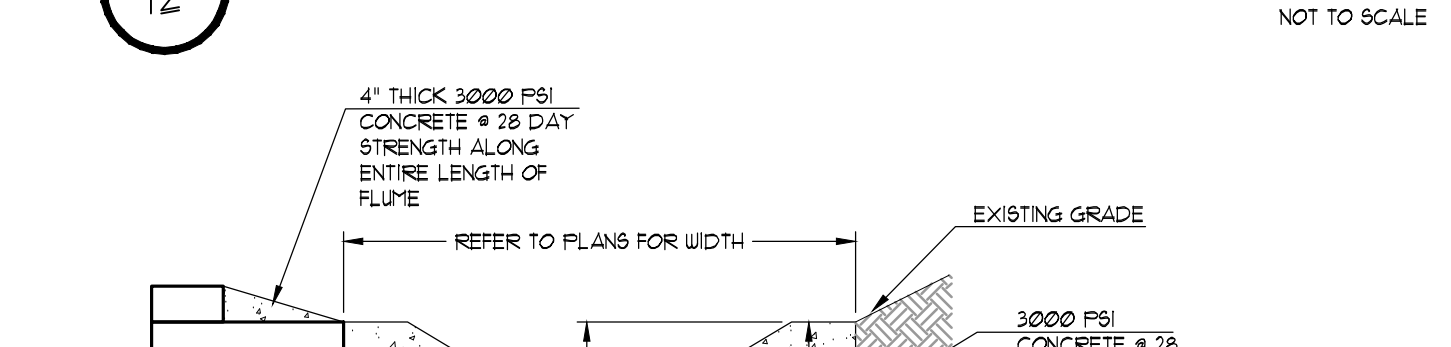
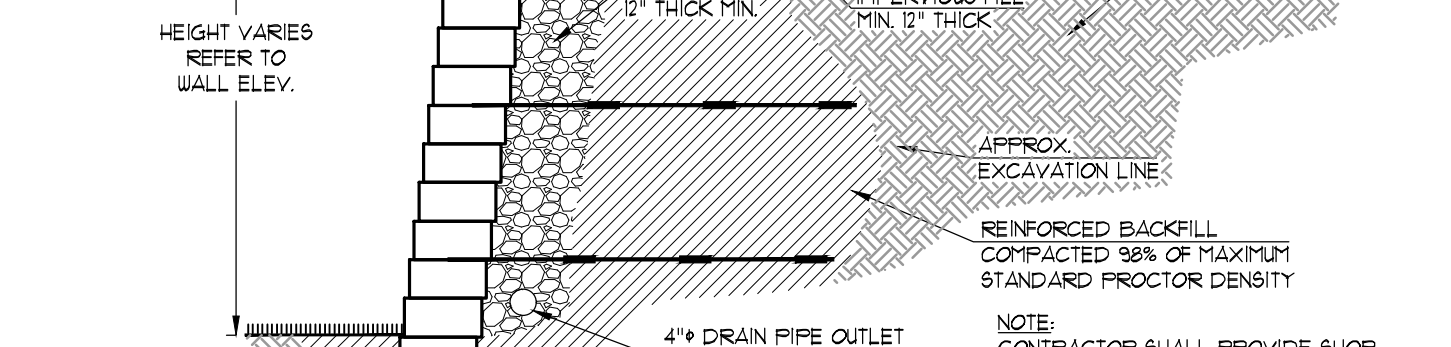
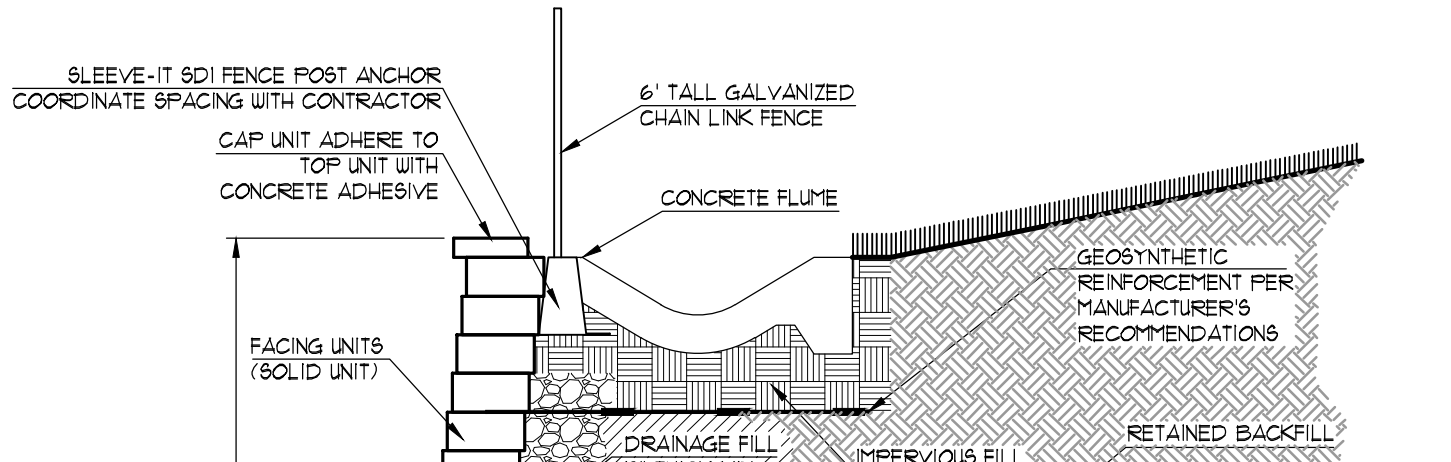
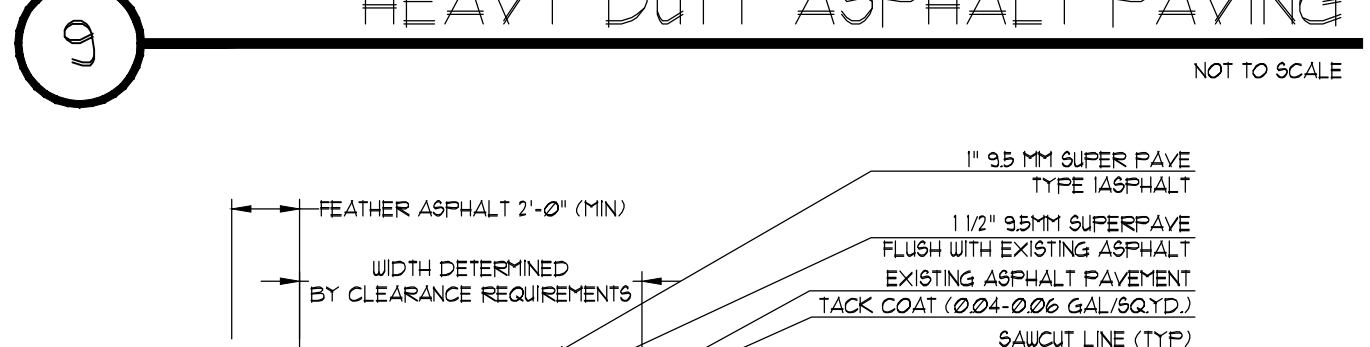
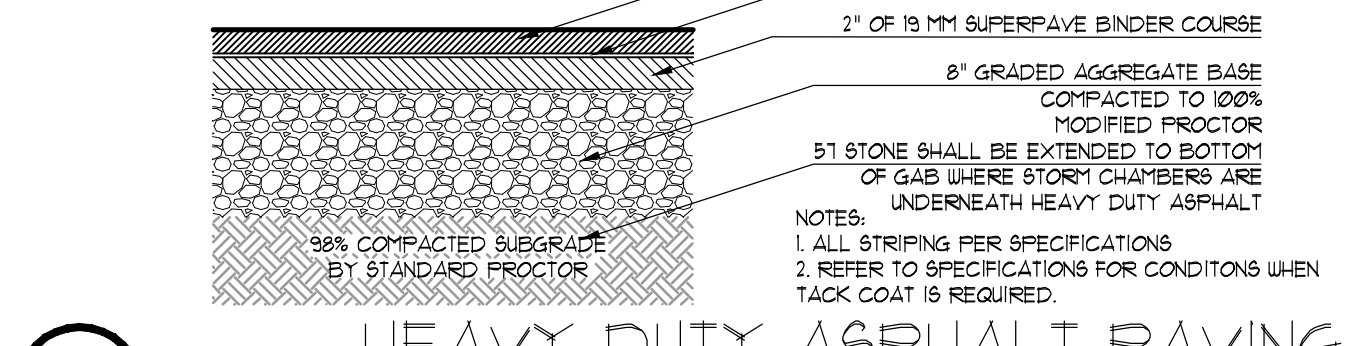
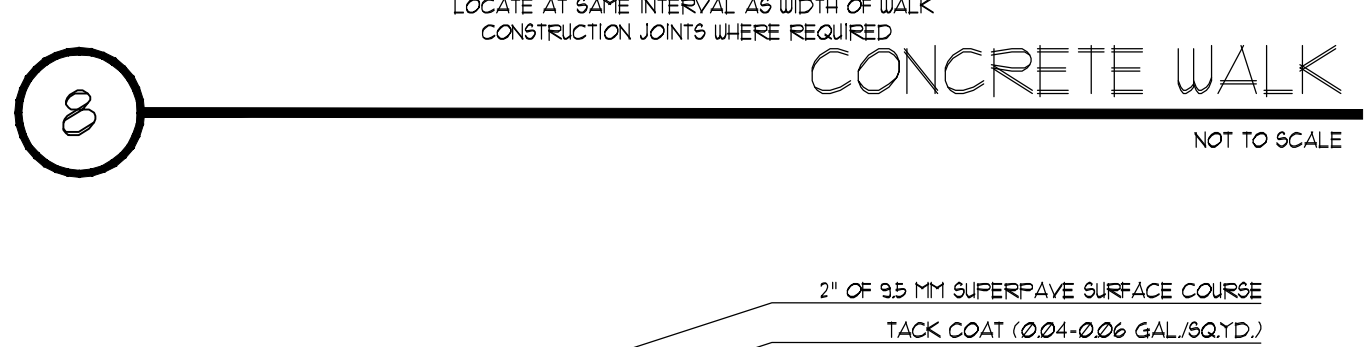
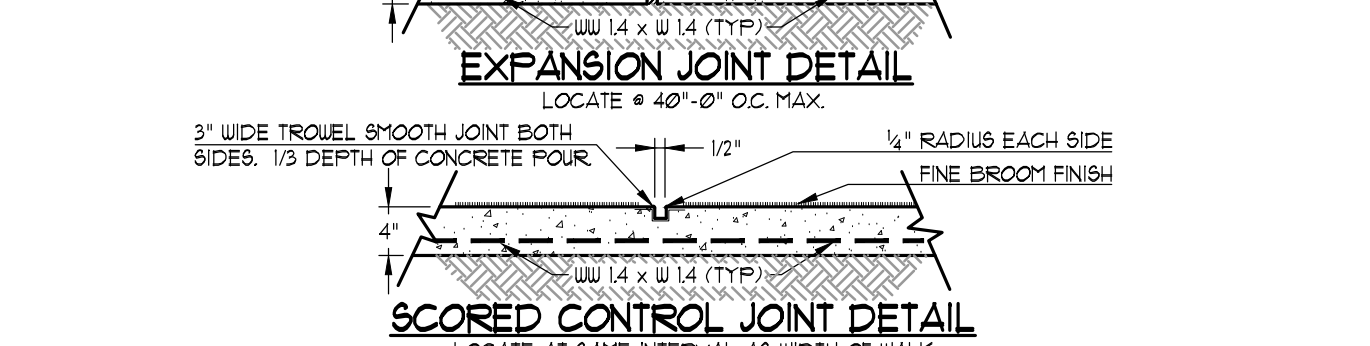
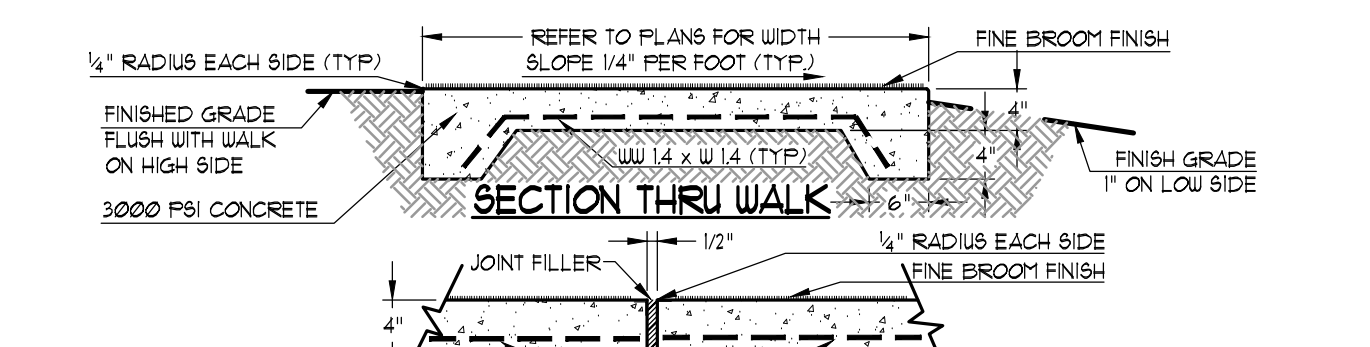
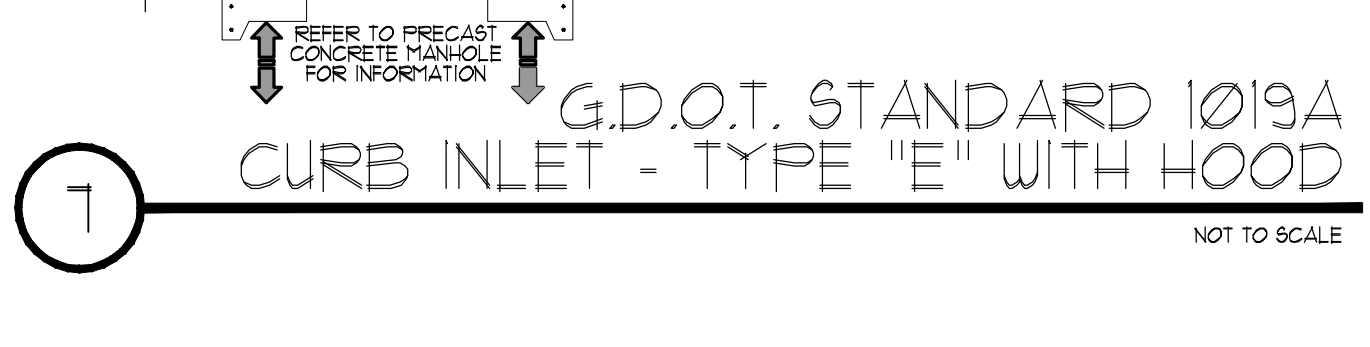
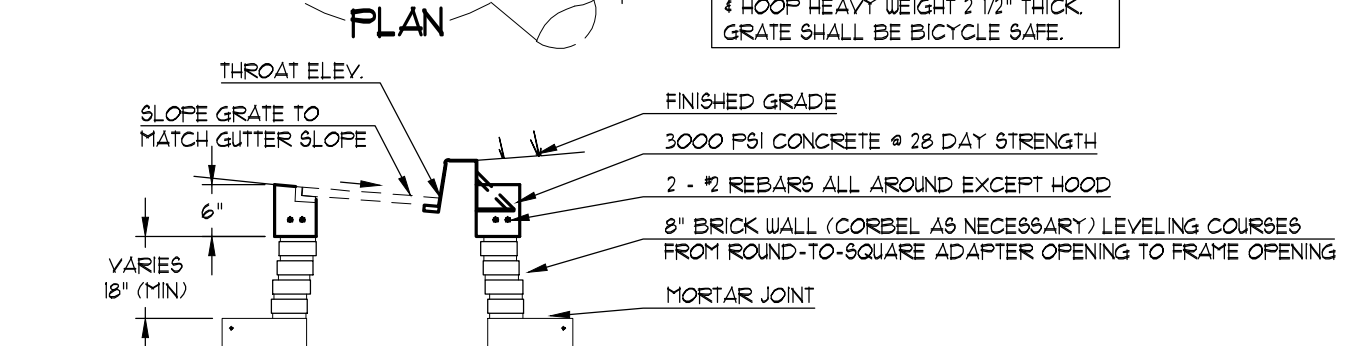
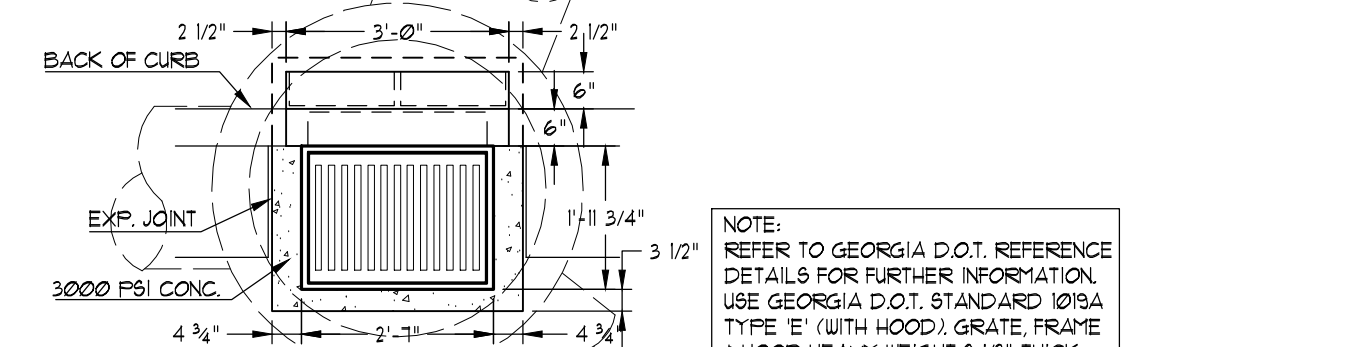
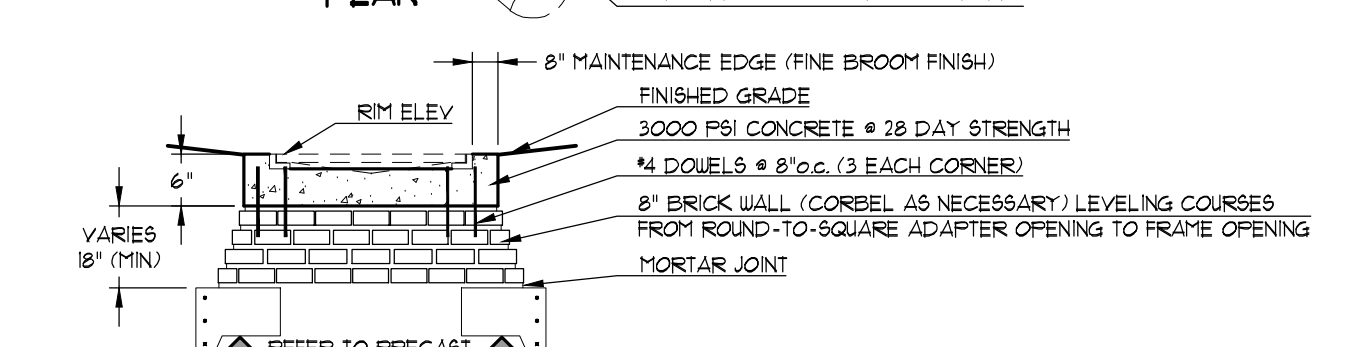
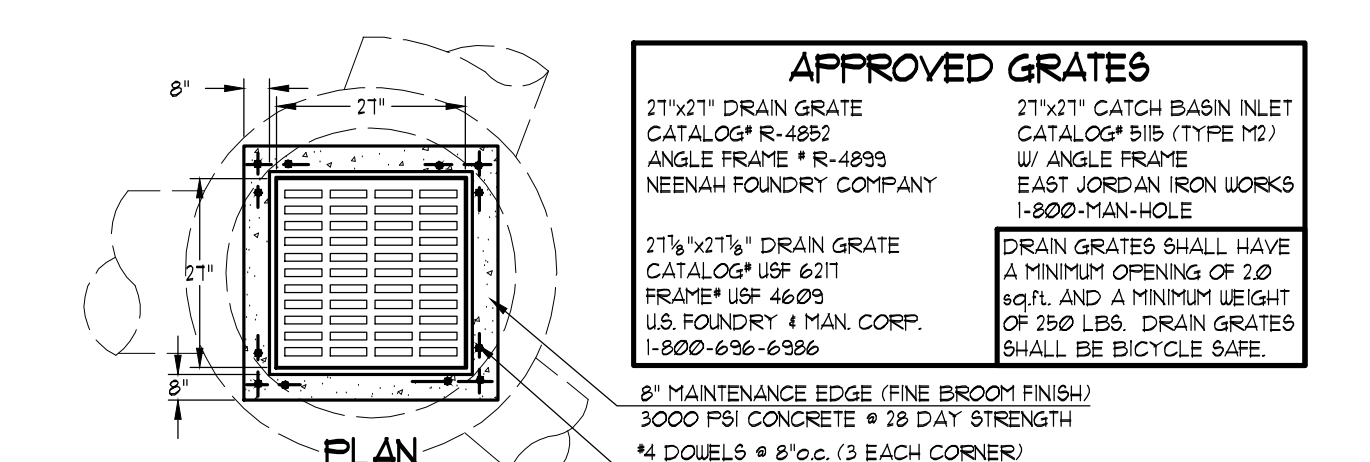
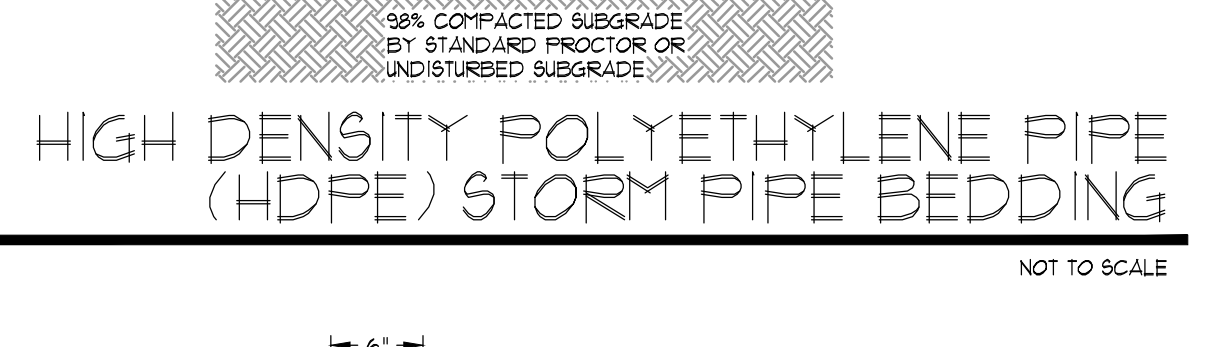
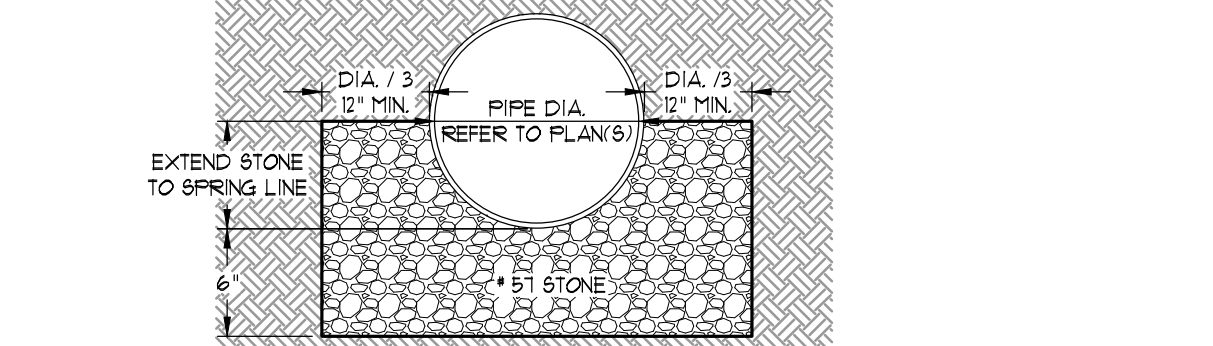
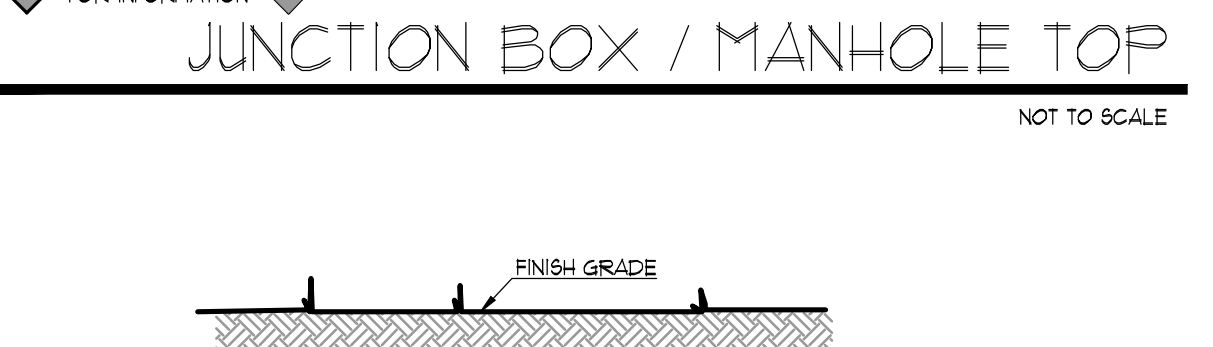
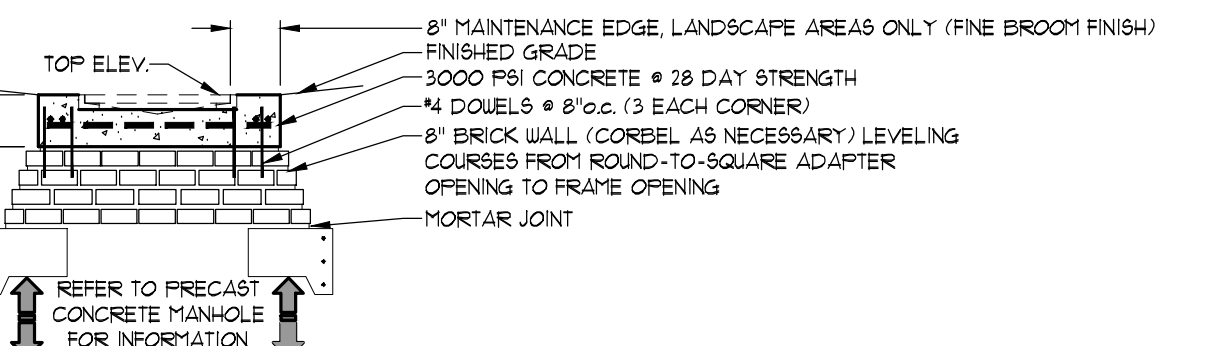
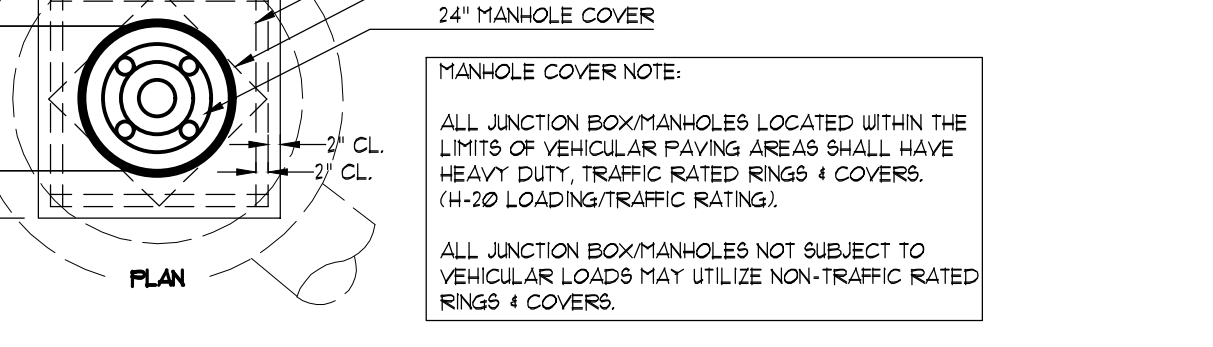
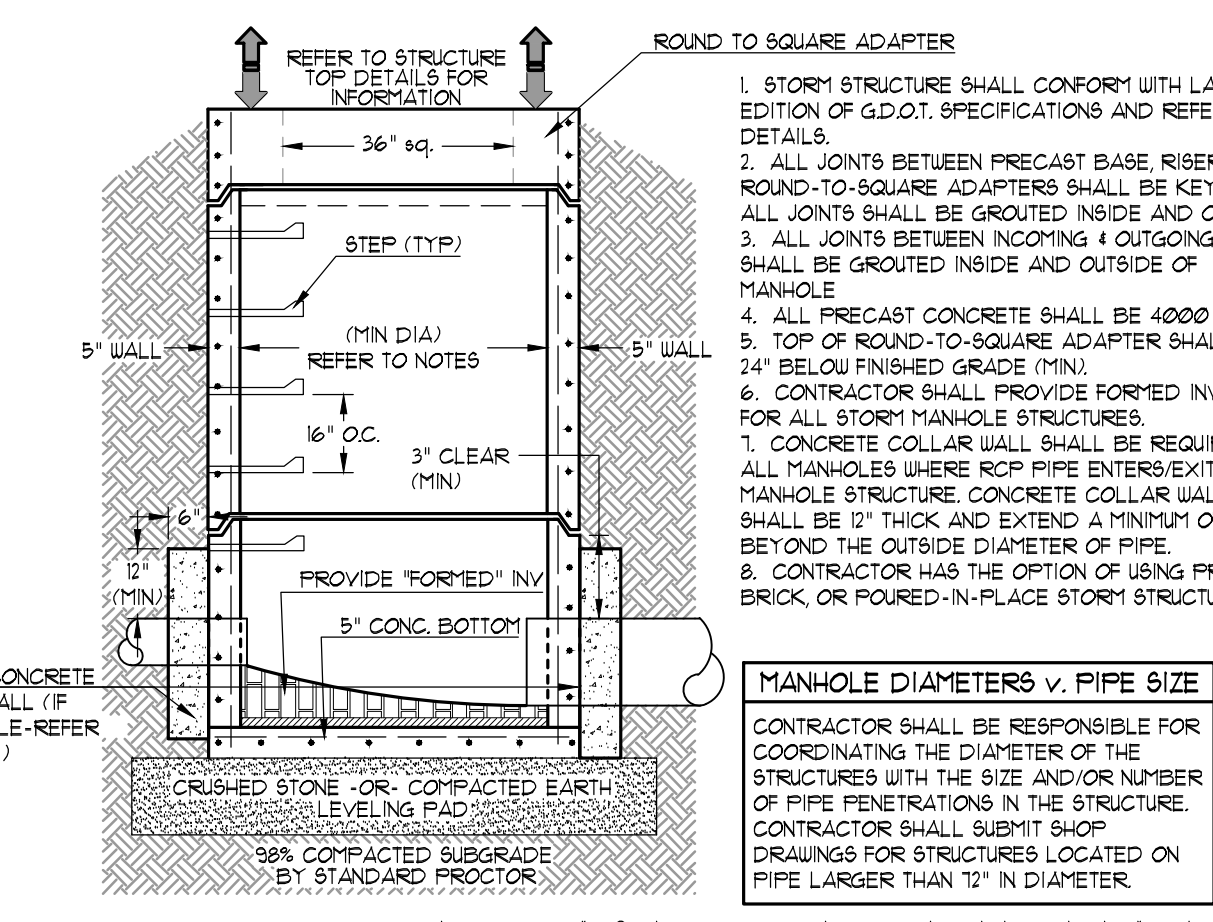
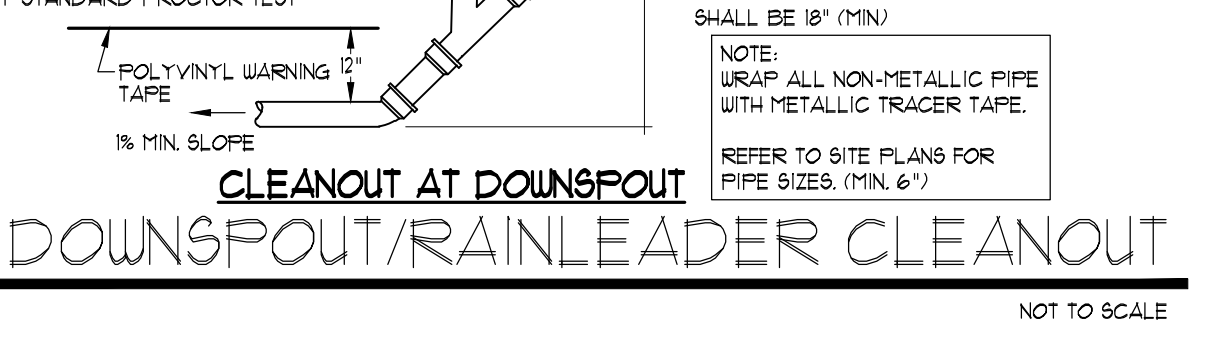
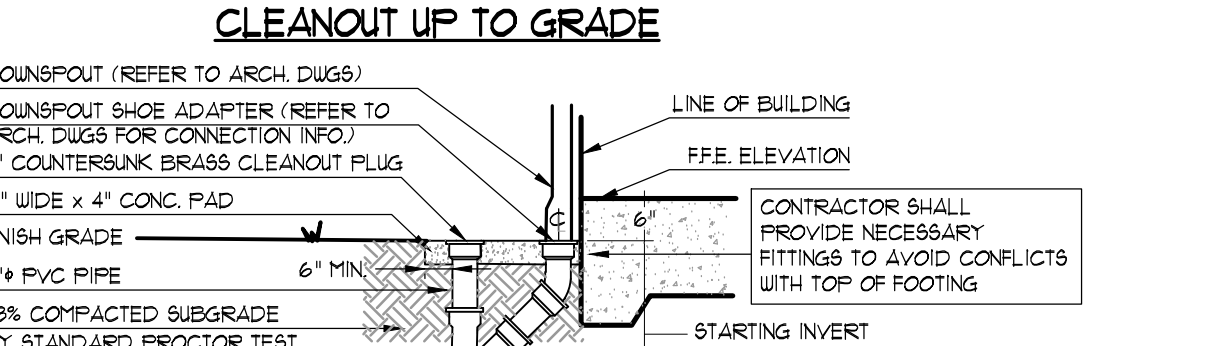
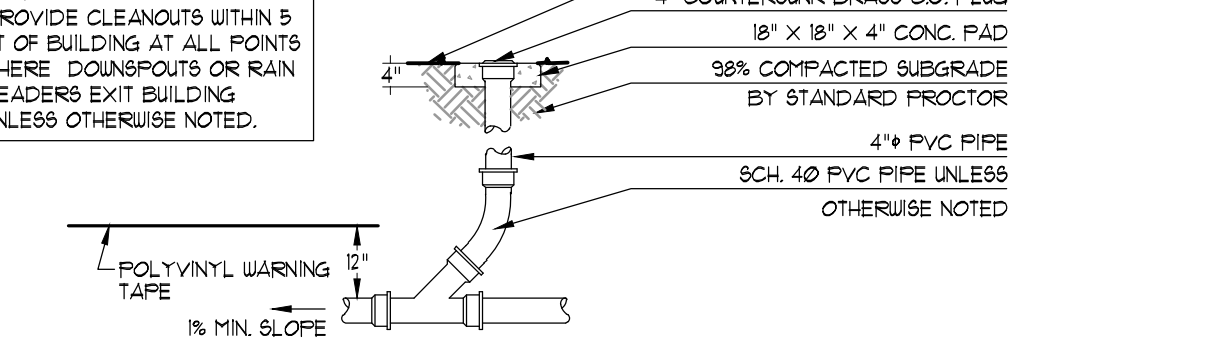
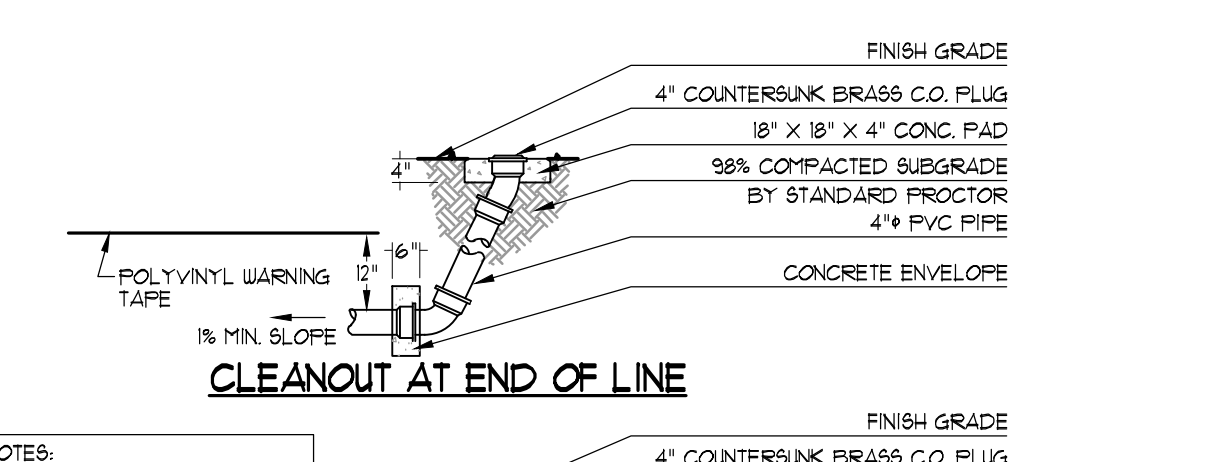
DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/30/2021	LDP SUBMITTAL	
1/21/22	ISSUED FOR BID	
	ADDENDUM NO. 3	
1/28/22	CONFORMED SET	

ADDITIONS AND ALTERATIONS TO:  
 NORTH GWINNETT HIGH SCHOOL  
 20 LEVEL CREEK RD NW  
 FORT GWINNETT, GEORGIA 30044  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

C7.00



**1599CGC**

APPROX. WEIGHT WITH FRAME = 59.00 LBS

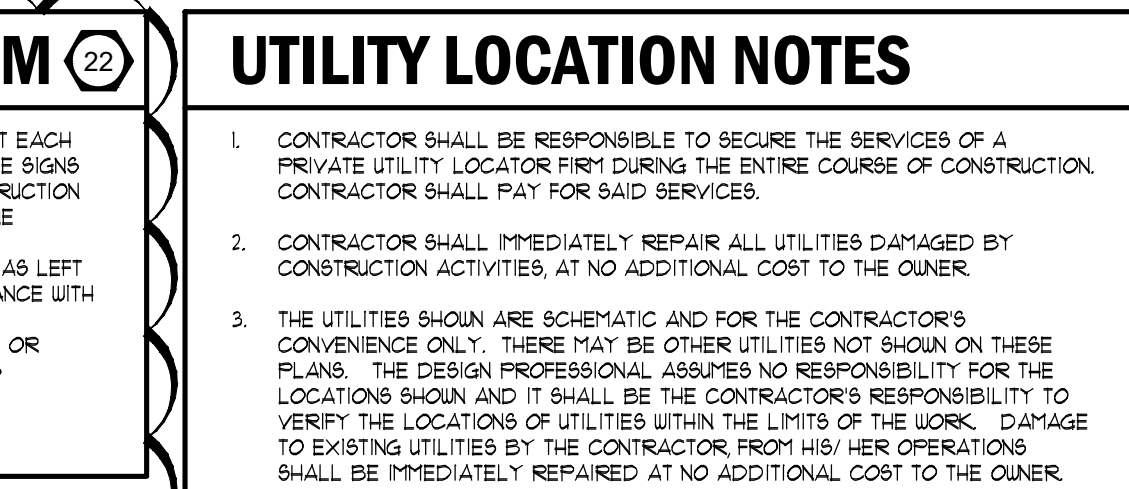
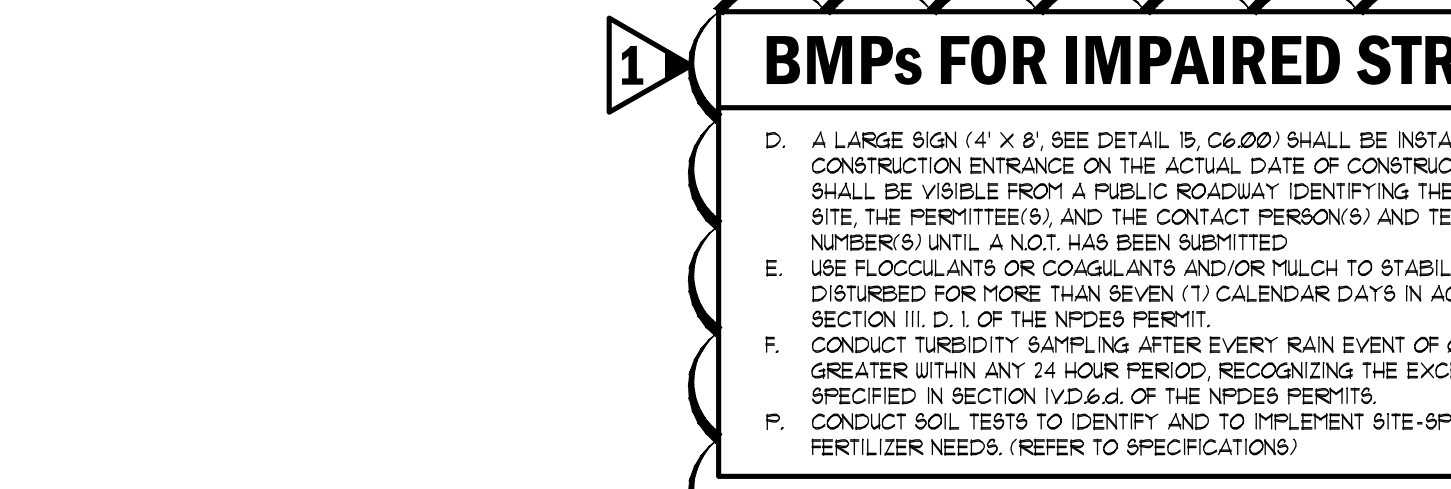
DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/01/2021	BUILDING PERMIT SET	
11/01/2021	DOE FINAL	
11/30/2021	LDP SUBMITTAL	
1/21/22	ISSUED FOR BID	
	ADDENDUM NO. 3	
1/28/22	CONFORMED SET	

DRAWN BY: EBC    MATERIAL: DUCTILE IRON    3130 VERONA AVE, BUREAU, GA 30618  
 REVISIONS BY: EBC    PROJECT NO./NAME:    PHN (770) 832-2443  
 DATE: 3-16-10    DWG NO.: 7001-110-209    REV: C    FAX (770) 832-2499  
 www.cfmcast-iron.com

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DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY. DIMENSIONS ARE IN INCHES. GRATE MEETS H-20 LOAD RATING. QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05. PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-630.

CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL FENCE RAIL UTILITIES AND/OR STORM LATER PIPE LINES WITH THE INSTALLATION OF MODULAR BLOCK RETAINING WALLS. ONCE GEORGIA REINFORCEMENTS HAVE BEEN PLACED AND BACKFILLED, NO UTILITY TRENCHING THAT OCCURS WITHIN REINFORCED ZONE. IF GEORGIA IS DAMAGED BY FAILURE OR STORM PIPE INSTALLATION, THE CONTRACTOR SHALL REPAIR DAMAGE AT NO ADDITIONAL COST TO OWNER.



**CALL BEFORE YOU DIG**

**GEORGIA811**

www.Georgia811.com

GEORGIA LAW MANDATES THAT BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY USING REQUEST ON www.GEORGIA811.COM OR BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

**24-HOUR EROSION CONTACT**

NAME: CAREY BELL  
 COMPANY: GWINNETT COUNTY PUBLIC SCHOOLS  
 EMAIL ADDRESS: CAREY.BELL@GCPKS.GA.GOV  
 PHONE NUMBER: 770-953-6634

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 2. READ THE SPECIFICATIONS. THIS SET OF DRAWINGS AND SPECIFICATIONS DEFINE PROJECT SCOPE AND CONTRACT REQUIREMENTS. INDIVIDUAL SHEETS SEPARATED FROM THE SET MAY NOT ACCURATELY REFLECT ALL INFORMATION NEEDED TO SUITABLY COVER CERTAIN ITEMS. DO NOT SEPARATE THIS SET OF DRAWINGS INTO INDIVIDUAL SHEETS.

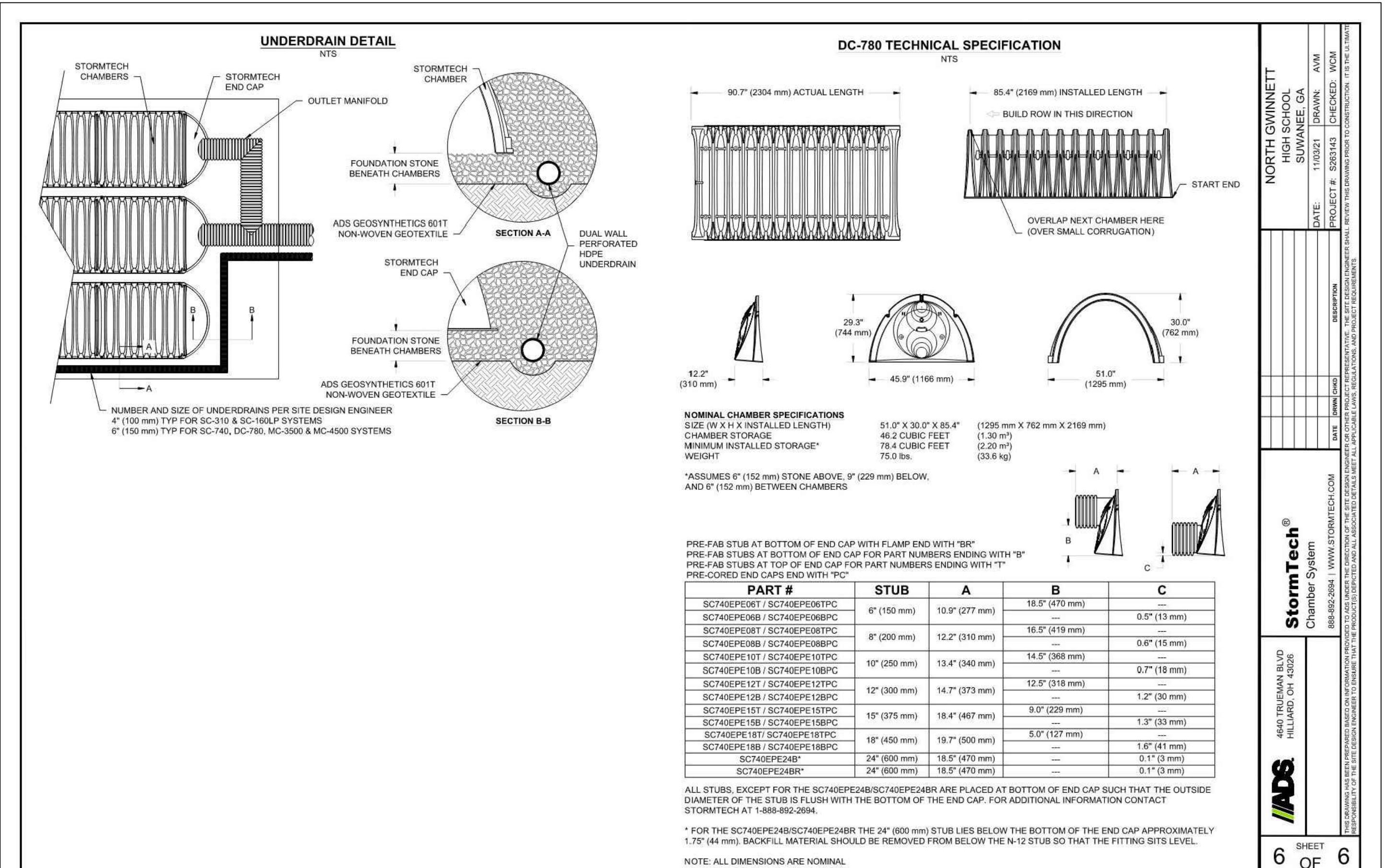
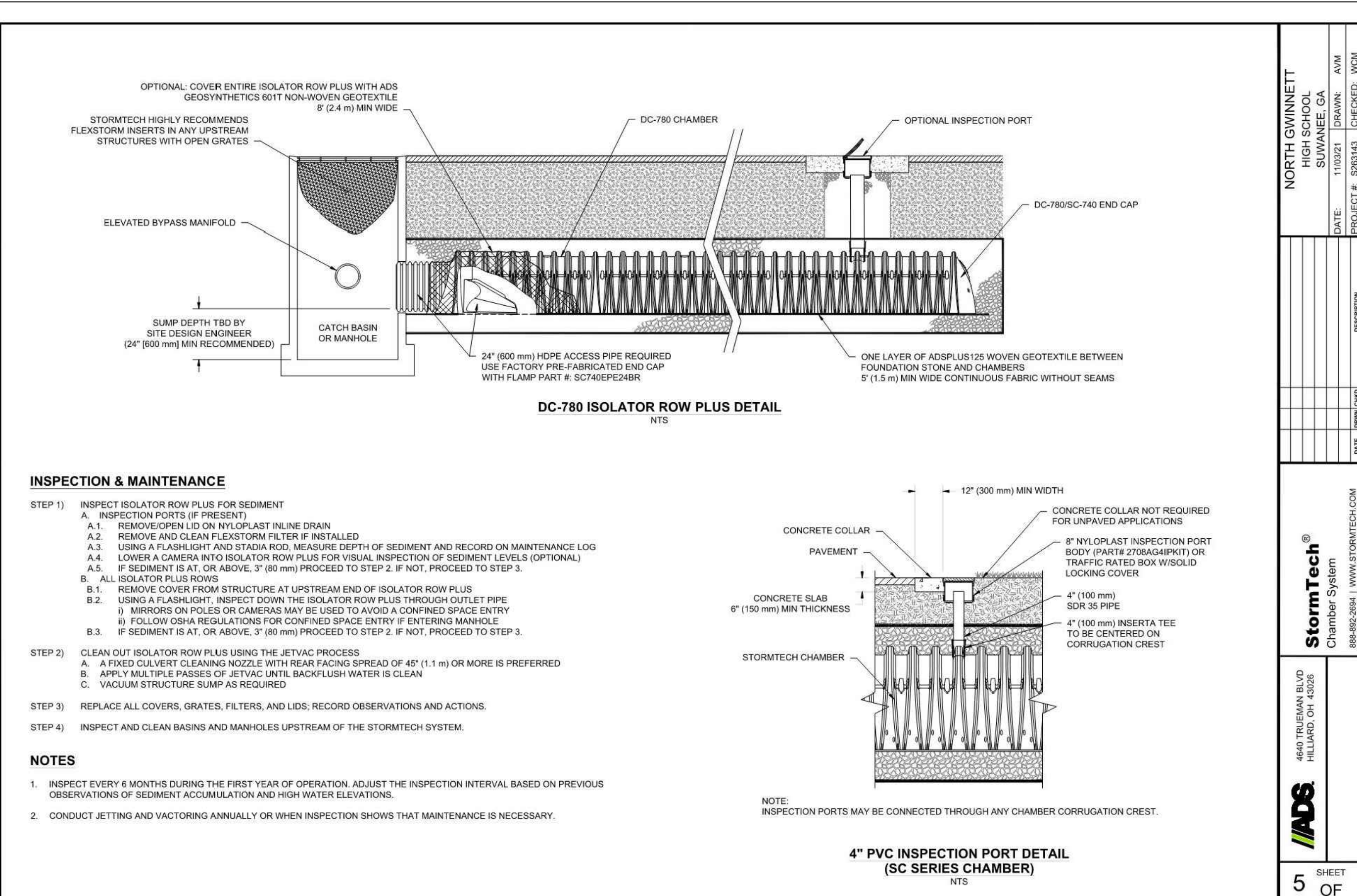
**BREEDLOVE LAND PLANNING**

Landscape Architects • Civil Engineers  
 www.landplanning.net  
 BLP JOB# 21074



DRAWING ISSUE RECORD

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/20/2021	BUILDING PERMIT SET	
11/20/2021	DOE FINAL	
11/25/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
1/28/22	CONFORMED SET	



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Landscape Architects • Civil Engineers  
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BLP JOB# 21014

**BMPs FOR IMPAIRED STREAM** (23)

- D. A LARGE SIGN (4' X 8'; SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S). UNTIL A NOTIFICATION HAS BEEN SUBMITTED.
- E. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION II, D.1 OF THE VICES PERMIT.
- F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.25 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.2.6.4 OF THE VICES PERMIT.
- G. CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. (REFER TO SPECIFICATIONS)

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

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GEORGIA LAW MANDATES THAT BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK YOU MUST CONTACT GEORGIA 811 BY USING ENDESBEST ON WWW.GEORGIA811.COM OR BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

**UTILITY LOCATION NOTES**

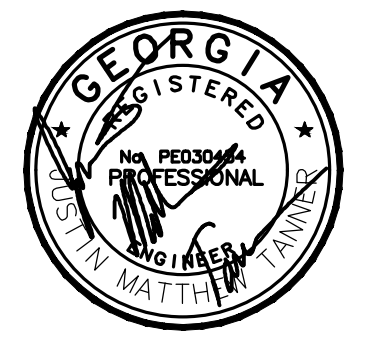
- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRM DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES.
- CONTRACTOR SHALL IMMEDIATELY REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE UTILITIES SHOWN ARE SCHEMATIC AND FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATION, DEPTH AND IDENTIFICATION OF UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR FROM HIS/HER OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DUG AND BACKFILLED BY LOCAL UTILITIES SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND COMPACTION AS NECESSARY, IF SETTLEMENT OCCURS.

**24-HOUR EROSION CONTACT** (4)

NAME: CAREY BELL  
COMPANY: GWINNETT COUNTY PUBLIC SCHOOLS  
EMAIL ADDRESS: CAREY.BELL@GCPKS.ORG  
PHONE NUMBER: 770-513-4614

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SITE WORK CONSTRUCTION DETAILS

ADDITIONS AND ALTERATIONS TO:  
NORTH GWINNETT HIGH SCHOOL  
220 LEVEL CREEK ROAD NW  
FOR GWINNETT COUNTY SCHOOLS  
GWINNETT COUNTY, GEORGIA

DATE: AUGUST 1, 2022  
JOB NO. SHL-2022-15  
DWG. BY JRC  
CK. BY JCH

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

C7.02

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/02/2021	BUILDING PERMIT SET	
11/02/2021	DOE FINAL	
11/02/2021	LDP SUBMITTAL	
11/30/2021	ISSUED FOR BID	
12/2/21	ADDENDUM NO. 3	A
1/28/22	CONFORMED SET	

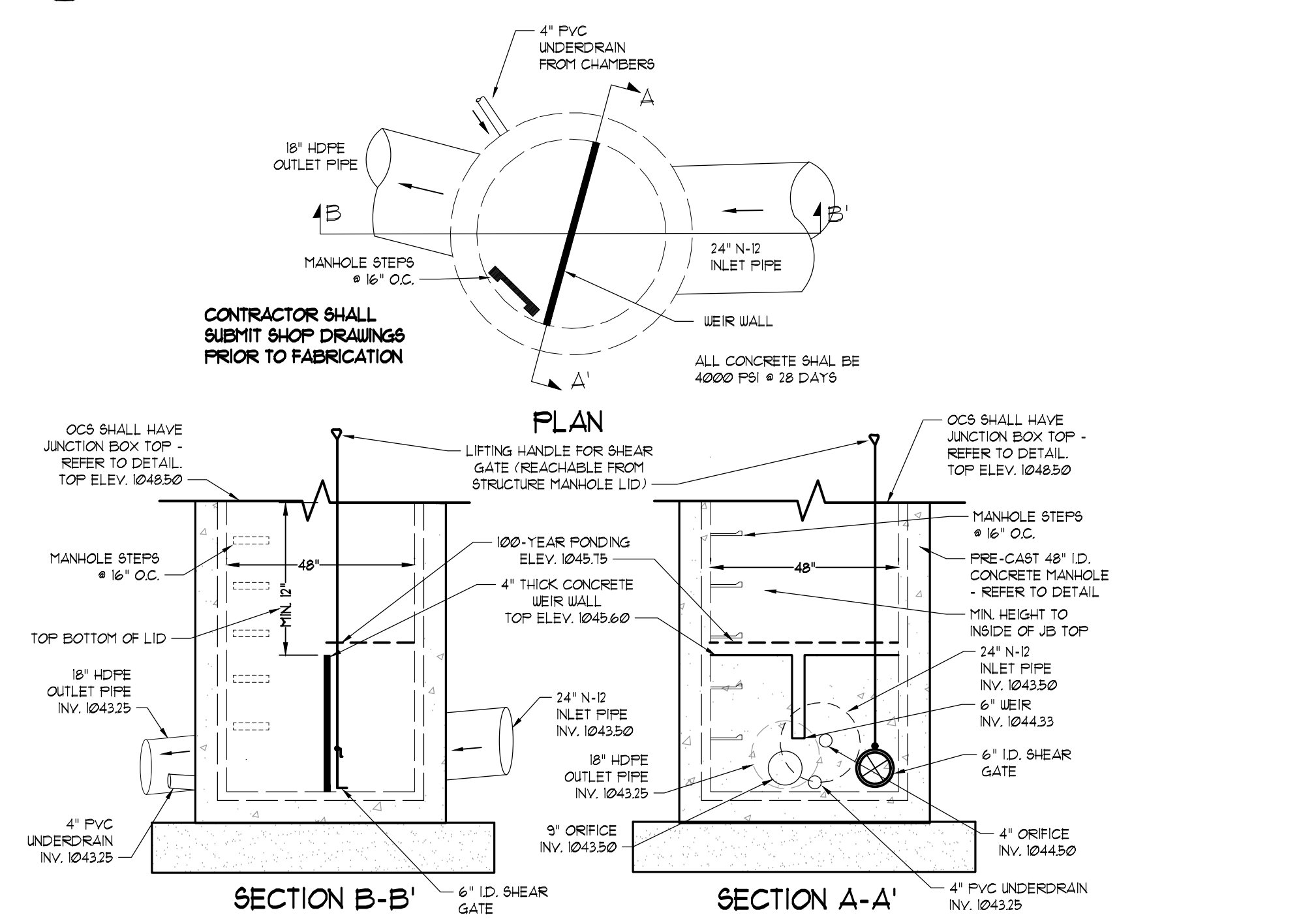
ADDITIONS AND ALTERATIONS TO:  
 NORTH GWINNETT HIGH SCHOOL  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30088  
 FOR GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

SITE WORK CONSTRUCTION DETAILS

cunningham forehand matthews moore  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

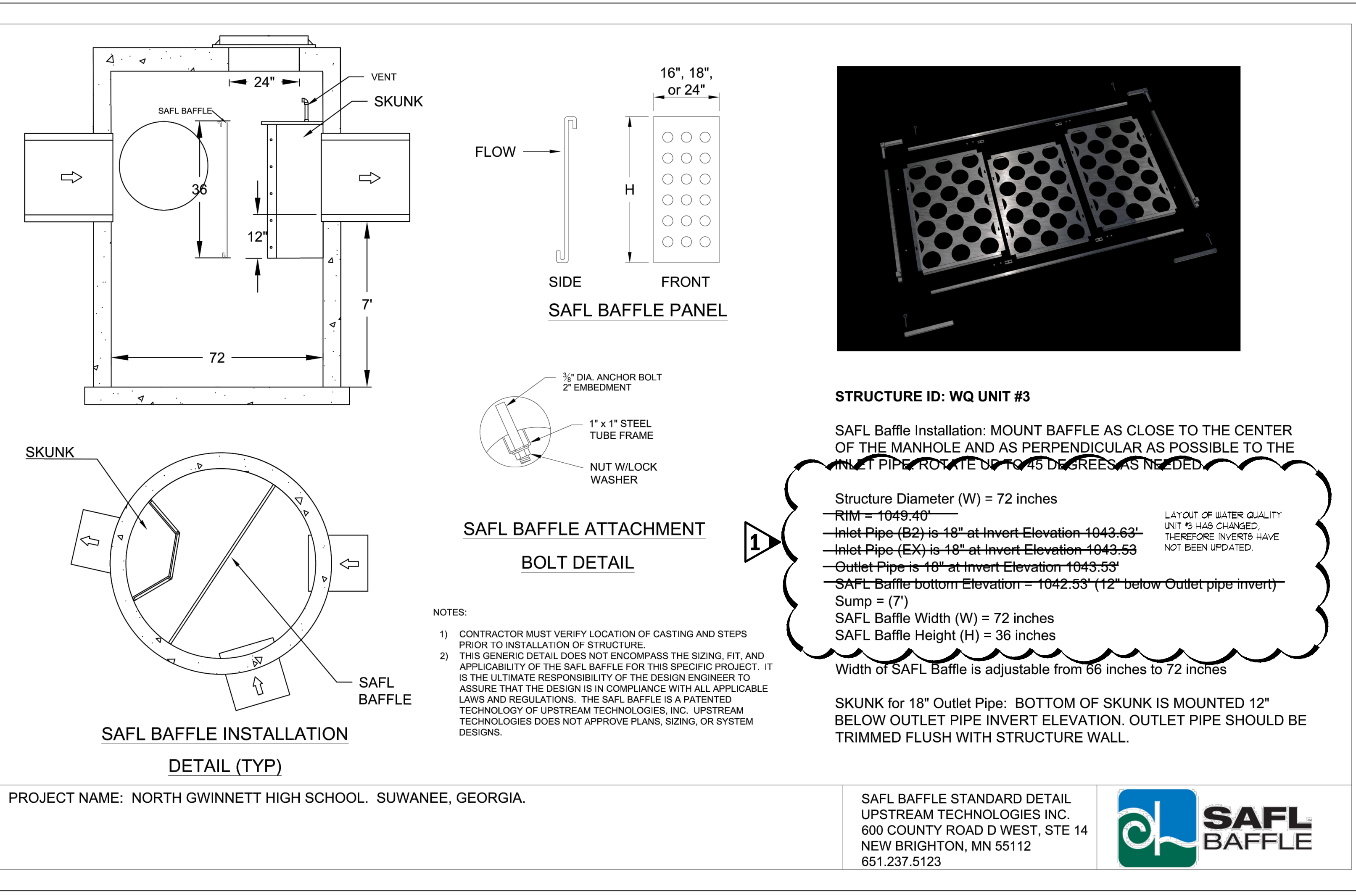
JOB NO. SHL-2021-15  
 DATE AUGUST 1, 2020  
 DWG. BY JRC  
 CK. BY JCH

1 DETAIL NOT USED  
NOT TO SCALE



STORMWATER MANAGEMENT FACILITY #2  
OUTLET CONTROL STRUCTURE AI

2 NOT TO SCALE



**STRUCTURE ID: WQ UNIT #3**

SAFL Baffle Installation: MOUNT BAFFLE AS CLOSE TO THE CENTER OF THE MANHOLE AND AS PERPENDICULAR AS POSSIBLE TO THE INLET PIPE. ROTATE UP TO 45 DEGREES AS NEEDED.

Structure Diameter (W) = 72 inches  
 RIM = 1049.40'  
 Inlet Pipe (D2) is 18" at Invert Elevation 1043.63'  
 Inlet Pipe (EX) is 18" at Invert Elevation 1043.53'  
 Outlet Pipe is 18" at Invert Elevation 1043.53'  
 SAFL Baffle bottom Elevation = 1042.53' (12" below Outlet pipe invert)  
 Sump = 7'  
 SAFL Baffle Width (W) = 72 inches  
 SAFL Baffle Height (H) = 36 inches

Width of SAFL Baffle is adjustable from 66 inches to 72 inches

SKUNK for 18" Outlet Pipe: BOTTOM OF SKUNK IS MOUNTED 12" BELOW OUTLET PIPE INVERT ELEVATION. OUTLET PIPE SHOULD BE TRIMMED FLUSH WITH STRUCTURE WALL.

3 STORM STRUCTURE B1  
JB WATER QUALITY UNIT #3  
NOT TO SCALE

**BMPs FOR IMPAIRED STREAM**

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- USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION III.D.1 OF THE NPDES PERMIT.
- CONDUCT TURBIDITY SAMPLING AFTER EACH MAJOR EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD. RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.6.6 OF THE NPDES PERMIT.
- CONDUCT SOIL TESTS TO IDENTIFY AND TO PRESENT SITE-SPECIFIC FERTILIZER NEEDS. (REFER TO SPECIFICATIONS).

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

**UTILITY LOCATION NOTES**

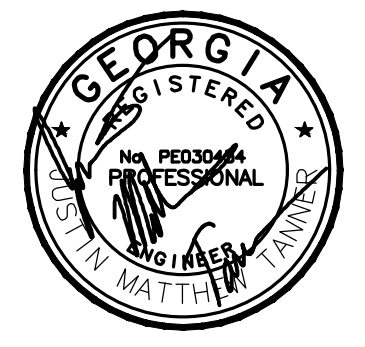
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**24-HOUR EROSION CONTACT**

NAME: CAREY BELL  
 COMPANY: GWINNETT COUNTY PUBLIC SCHOOLS  
 EMAIL ADDRESS: CAREY.BELL@GCPKS.ORG  
 PHONE NUMBER: 770-933-6634

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11/30/2021	ISSUED FOR BID	
1/28/22	CONFORMED SET	

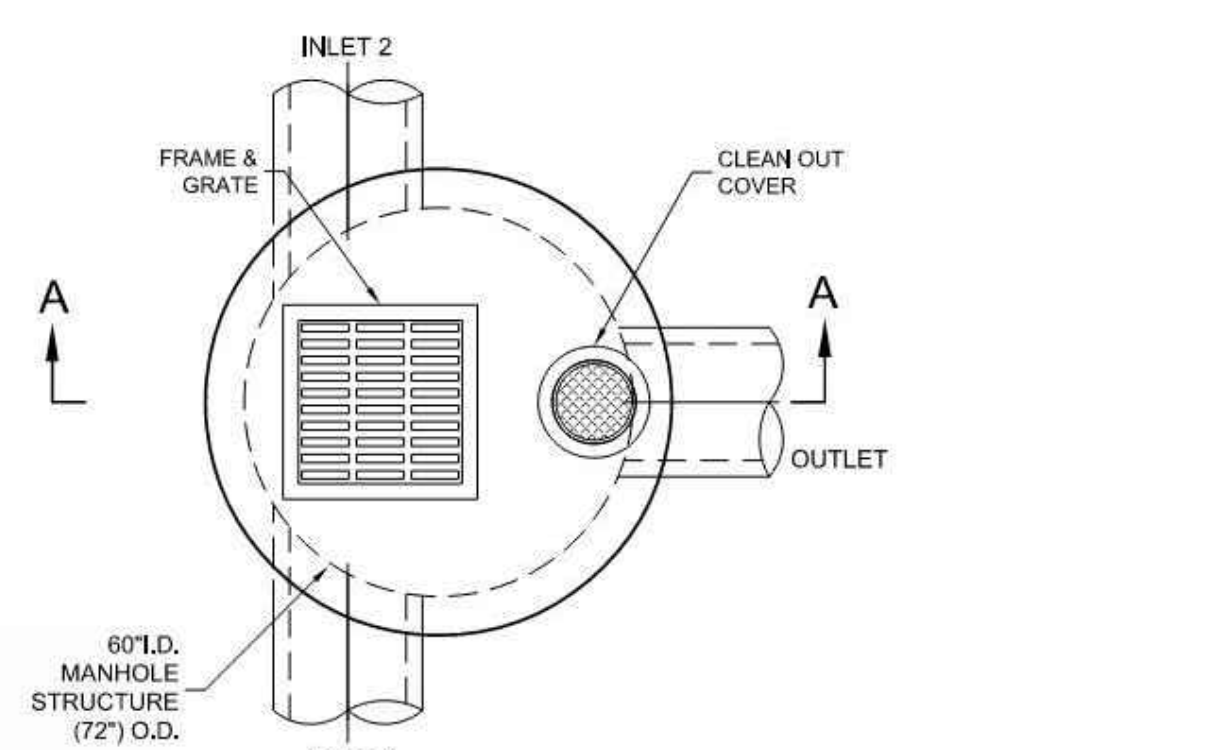
  
**ADDITIONS AND ALTERATIONS TO:**  
**NORTH GWINNETT HIGH SCHOOL**  
 20 LEVEL CREEK RD NW  
 SUWANEE, GA 30088  
 FOR GWINNETT COUNTY SCHOOLS  
 GWINNETT COUNTY, GEORGIA

**SITE WORK CONSTRUCTION DETAILS**

JOB NO. SHL-D05-15  
 DATE AUGUST 1, 2020  
 DWG. BY JMG  
 CK. BY JCH  
 CUNNINGHAM, FOREHAND, MATTHEWS & MOORE, ARCHITECTS, INC. - 2011 MANCHESTER STREET, N.E. - ATLANTA, GEORGIA 30324 - PHONE (404) 873-2152

cunningham forehand matthews moore

C7.04



**PLAN VIEW**

CONTRACTOR TO GROUT TO FINISHED GRADE GRADE RING/RISERS

CONTRACTOR TO BRING 12" CLEAN OUT COVER TO GRADE (NO PRECAST RINGS AVAILABLE)

CONTRACTOR SHALL RAISE TOP OF STRUCTURE TO ELEV. 1043.50

DEFLECTOR PAN & COVER

FIBERGLASS SEPARATION CYLINDER & INLET

INLET 1 & 2 PIPE Ø18" RCP

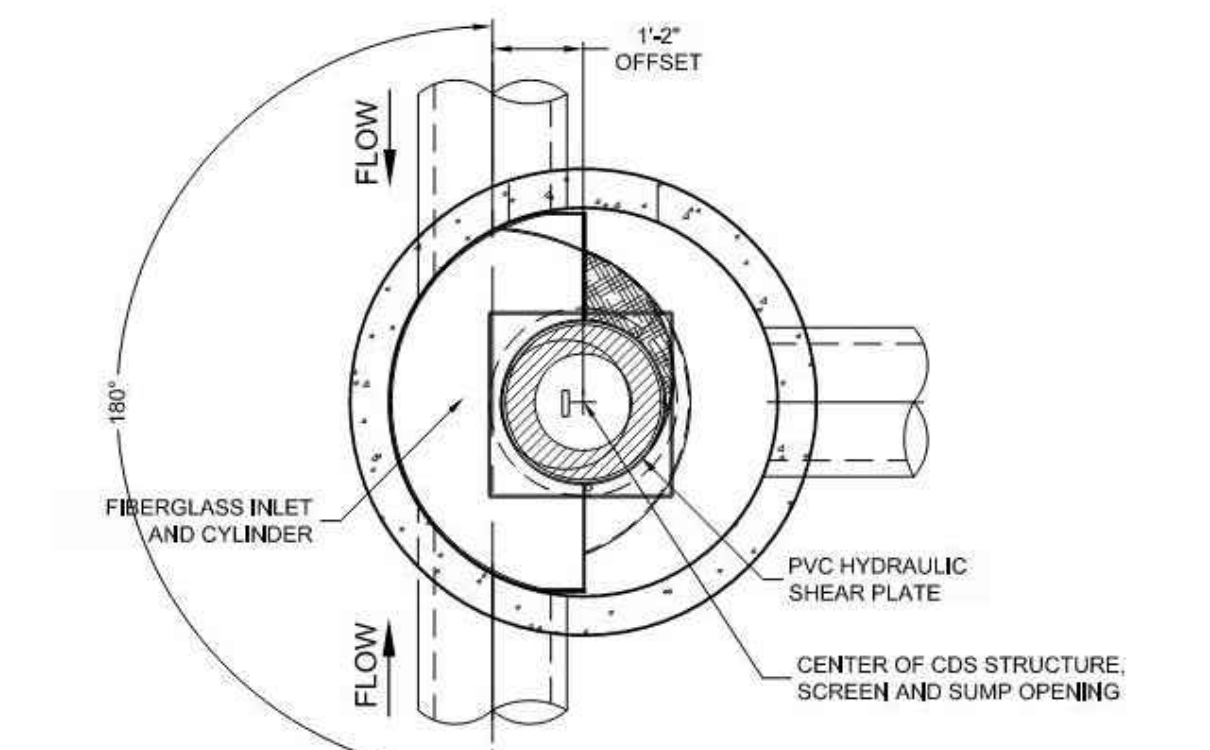
OIL BAFFLE

SEPARATION SCREEN

PVC HYDRAULIC SHEAR PLATE

SOLIDS STORAGE SUMP

CONCRETE DIMENSIONS WILL BE PROVIDED WITH CONTRACT DRAWING AT TIME OF APPROVAL



**SECTION B-B**

1/2" OFFSET

FIBERGLASS INLET AND CYLINDER

PVC HYDRAULIC SHEAR PLATE

CENTER OF CDS STRUCTURE, SCREEN AND SUMP OPENING

MATERIALS LIST - PROVIDED BY CONTECH		
COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET & CYLINDER	CONTECH
1	28"x28" DEFLECTOR PAN & COVER	CONTECH
1	2400 MICRON SEP. SCREEN	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1	GRADE RINGS/ RISERS	CONTRACTOR
1	Ø12"x4" CLEAN OUT COVER	CONTRACTOR
1	24"x24" FRAME AND GRATE	CONTRACTOR

**SITE DESIGN DATA**

WATER QUALITY FLOW RATE 1.57 CFS

25-YEAR PEAK FLOW RATE 8.19 CFS

**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. [www.contech-us.com](http://www.contech-us.com)
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO H520 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

**INSTALLATION NOTES**

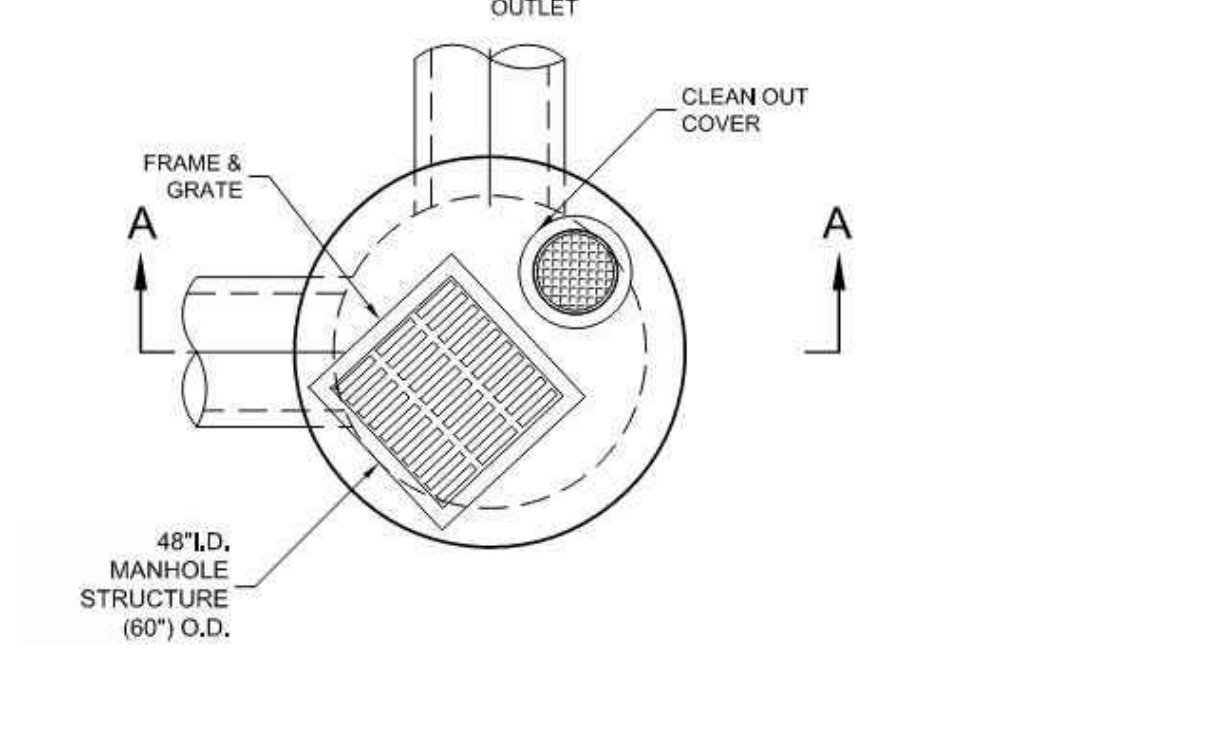
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**STRUCTURE WEIGHT**  
APPROXIMATE HEAVIEST PICK = T.B.D. LBS.

CONTECH  
PROPOSAL  
DRAWING

CDS2025-5-C - 457803-01  
ADDITIONS & ALTERATIONS TO  
NORTH GWINNETT H.S.  
SUWANEE, GA  
SITE DESIGNATION: A2

STORM STRUCTURE C3 - RELOCATED WATER QUALITY UNIT #1



**PLAN VIEW**

CONTRACTOR TO GROUT TO FINISHED GRADE GRADE RING/RISERS

CONTRACTOR TO BRING 12" CLEAN OUT COVER TO GRADE (NO PRECAST RINGS AVAILABLE)

CONTRACTOR SHALL RAISE TOP OF STRUCTURE TO ELEV. 1042.50

DEFLECTOR PAN & COVER

FIBERGLASS SEPARATION CYLINDER & INLET

INLET PIPE Ø18" RCP

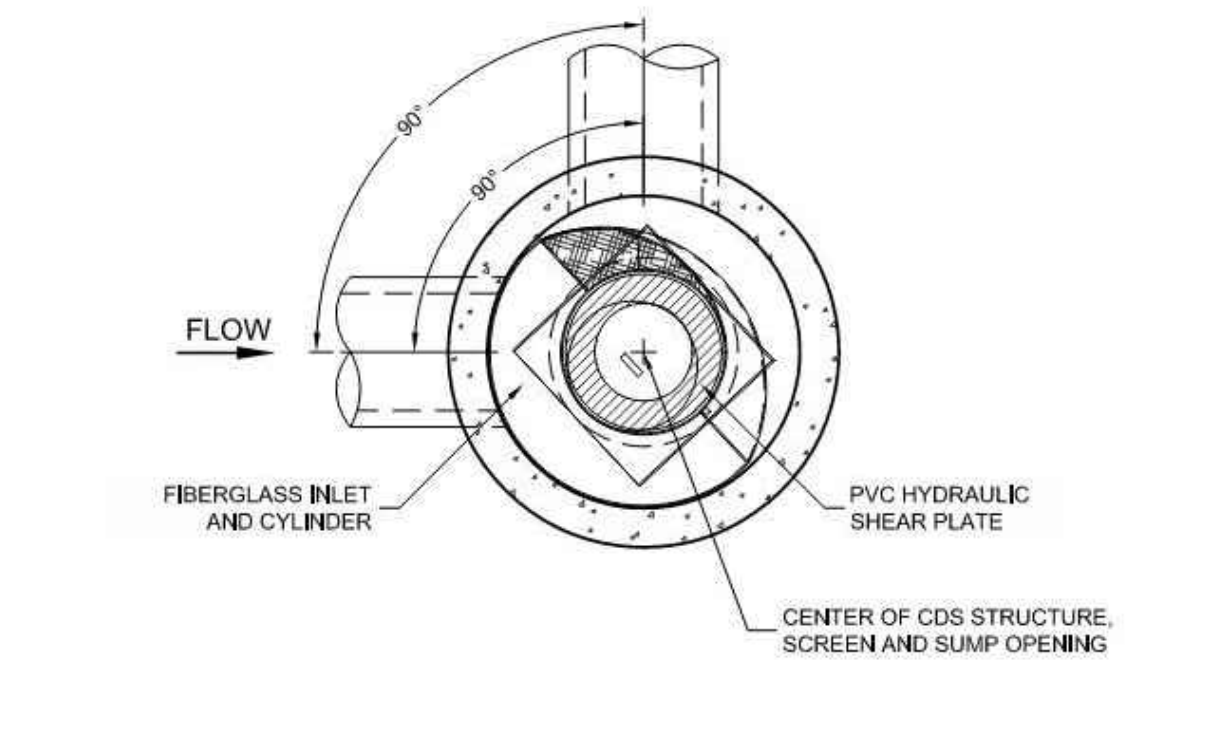
OIL BAFFLE

SEPARATION SCREEN

PVC HYDRAULIC SHEAR PLATE

SOLIDS STORAGE SUMP

CONCRETE DIMENSIONS WILL BE PROVIDED WITH CONTRACT DRAWING AT TIME OF APPROVAL



**SECTION B-B**

FIBERGLASS INLET AND CYLINDER

PVC HYDRAULIC SHEAR PLATE

CENTER OF CDS STRUCTURE, SCREEN AND SUMP OPENING

MATERIALS LIST - PROVIDED BY CONTECH		
COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET & CYLINDER	CONTECH
1	28"x28" DEFLECTOR PAN & COVER	CONTECH
1	2400 MICRON SEP. SCREEN	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1	GRADE RINGS/ RISERS	CONTRACTOR
1	Ø12"x4" CLEAN OUT COVER	CONTRACTOR
1	24"x24" FRAME AND GRATE	CONTRACTOR

**SITE DESIGN DATA**

WATER QUALITY FLOW RATE 0.46 CFS

25-YEAR PEAK FLOW RATE 1.46 CFS

**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. [www.contech-us.com](http://www.contech-us.com)
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO H520 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

**INSTALLATION NOTES**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**STRUCTURE WEIGHT**  
APPROXIMATE HEAVIEST PICK = T.B.D. LBS.

CONTECH  
PROPOSAL  
DRAWING

CDS2015-4-C - 457803-01  
ADDITIONS & ALTERATIONS TO  
NORTH GWINNETT H.S.  
SUWANEE, GA  
SITE DESIGNATION: B2

STORM STRUCTURE A0a - RELOCATED WATER QUALITY UNIT #2

**BMPs FOR IMPAIRED STREAM**

D. A LARGE SIGN (4' X 8'; SEE DETAIL B, C&D) SHALL BE INSTALLED AT EACH CONSTRUCTION ENTRANCE ON THE ACTUAL DATE OF CONSTRUCTION. THE SIGN SHALL BE VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOT 1489 HAS BEEN SUBMITTED.

E. USE FLOCCULANTS OR COAGULANTS AND/OR MELCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH SECTION 11.D.1. OF THE NPDES PERMIT.

F. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD. RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION 11.D.6. OF THE NPDES PERMIT.

G. CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. (REFER TO SPECIFICATIONS.)

NOTE: REFER TO C405 FOR IMPAIRED STREAM MAP

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www.Georgia811.com

GEORGIA LAW MANDATES THAT BEFORE BEGINNING ANY MECHANIZED DIGGING OR EXCAVATION WORK, YOU MUST CONTACT GEORGIA 811 BY USING 888-888-8888 OR 800-888-8888 OR BY CALLING 811 OR 1-800-282-7411 AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS IN ADVANCE TO HAVE UTILITY LINES MARKED.

**24-HOUR EROSION CONTACT**

NAME: CAREY BELL  
COMPANY: GWINNETT COUNTY PUBLIC SCHOOLS  
EMAIL ADDRESS: CAREY.BELL@GCPKS.ORG  
PHONE NUMBER: 770-933-6634

**DO NOT BREAK OR DUPLICATE**

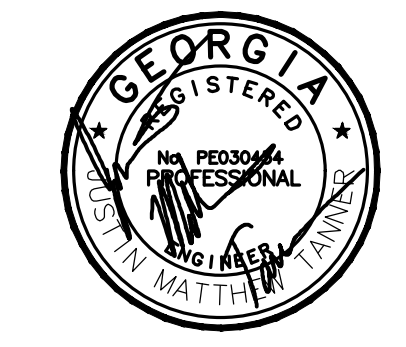
1. DO NOT DUPLICATE DRAWINGS WITHOUT PERMISSION.

2. READ THE SPECIFICATIONS. THIS SET OF DRAWINGS AND SPECIFICATIONS DEFINE PROJECT SCOPE AND CONTRACT REQUIREMENTS. INDIVIDUAL SHEETS SEPARATED FROM THE SET MAY NOT ADEQUATELY REFLECT ALL INFORMATION NEEDED TO SUITABLY COVER CERTAIN ITEMS. DO NOT SEPARATE THIS SET OF DRAWINGS INTO INDIVIDUAL SHEETS.

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**UTILITY LOCATION NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRM DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES.
- CONTRACTOR SHALL IMMEDIATELY REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE UTILITIES SHOWN ARE SCHEMATIC AND FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF UTILITIES WITHIN THE LIMITS OF THE WORK. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR FROM HIS/her OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DUG AND BACKFILLED BY LOCAL UTILITIES SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND COMPACTION AS NECESSARY, IF SETTLEMENT OCCURS.



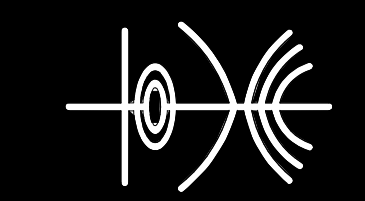








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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

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S0.4

**COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF)**

IBC 2018: LOCATION PER ASCE 7-16: FIGURE 30.3-1 & 30.3-2A

EFFECTIVE WIND AREA (FT <sup>2</sup> )	ROOF					ROOF OVERHANGS			WALLS		PARAPETS	
	ALL ROOF ZONES	1'	2	3	1, 1'	2	3	ALL WALL ZONES	4	5	P4 (+&-)	P5 (+&-)
<10	16.0	-32.5	-56.5	-74.6	-101.7	-56.5	-74.6	-101.7	32.5	-43.3	99.2	128.3
20	16.0	-32.5	-52.8	-69.8	-92.1	-55.6	-68.2	-90.5	31.0	-33.7	40.4	92.9
50	16.0	-32.5	-47.9	-63.5	-79.4	-54.4	-59.7	-75.7	29.1	-31.8	-36.6	84.4
>100	16.0	-32.5	-44.2	-58.7	-69.8	-53.5	-53.3	-64.5	27.7	-30.4	-33.7	78.0
>500	16.0	-22.0	-35.5	-47.5	-47.5	-35.5	-38.5	-38.5	24.4	-27.1	-27.1	63.2

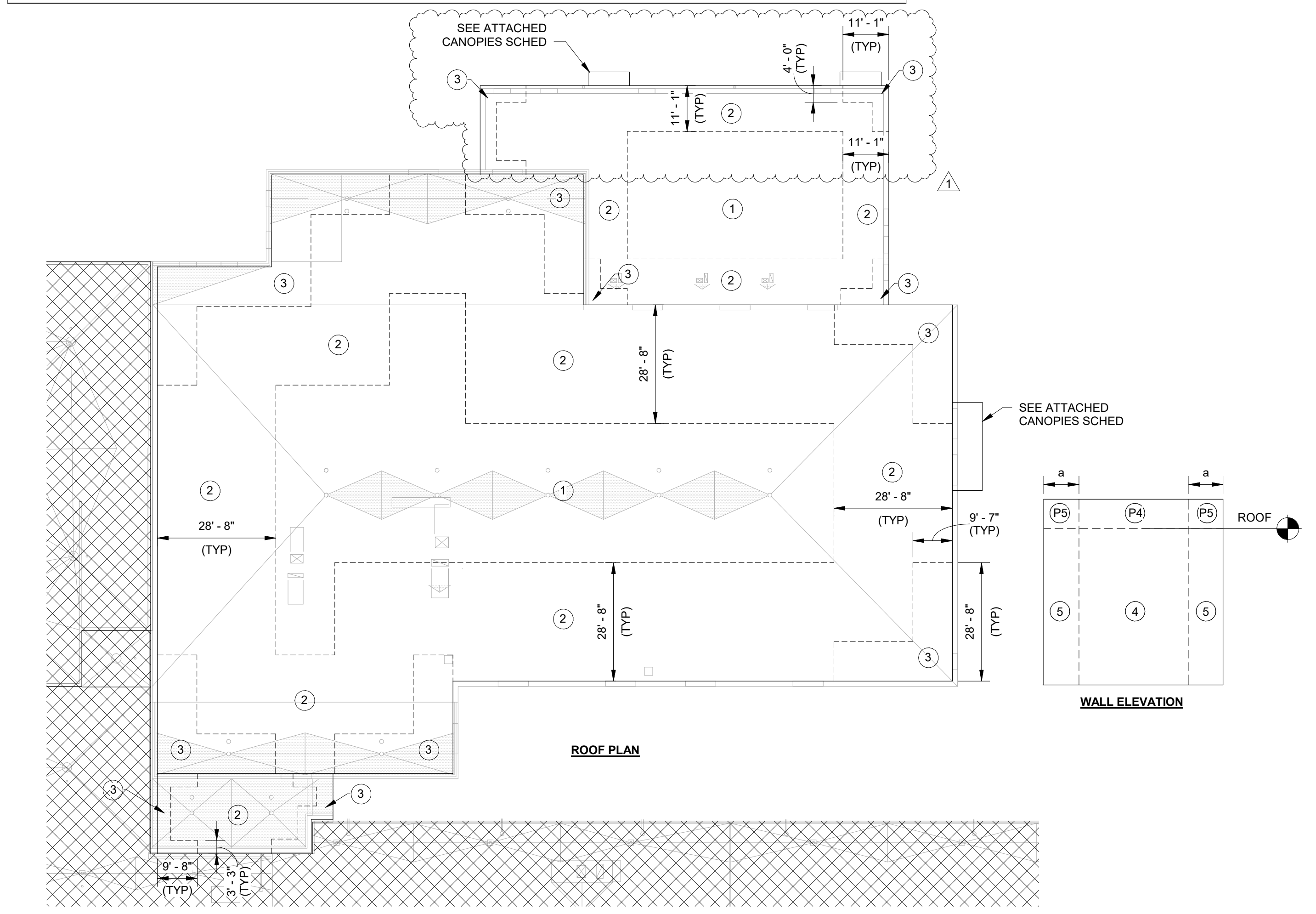
ROOFTOP EQUIPMENT  
 Phoriz = 57.1 psf  
 Puplift = 45.1 psf

- NOTES:
- 1 a = 17'-9". SEE ASSOCIATED ROOF PLAN MAP FOR LOCATION OF a-ZONES. WALL a-ZONE LOCATIONS TO MATCH ROOF a-ZONES.
  - 2 POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE. NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.
  - 3 EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
  - 4 FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREA.
  - 5 DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.
  - 6 PARAPET COMPONENTS AND CLADDING ARE THOSE ELEMENTS WHICH EXIST ABOVE THE HORIZONTAL PLANE OF THE ROOF AND SHALL BE DESIGNED FOR:
    - POSITIVE AND NEGATIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON OUTSIDE FACE.
    - POSITIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
    - NEGATIVE PRESSURES 2 OR 3 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
  - P4/5 SHALL BE APPLIED TO THE DESIGN OF THE STRUCTURAL ELEMENT OF THE PARAPET AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE PARAPET.
  - 7 A DESIGN WIND PRESSURE (HORIZONTAL AND VERTICAL) SHALL BE APPLIED TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUs, AHUs, AND SCREEN WALLS.
  - 8 ROOFH: DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE OVERHANG.

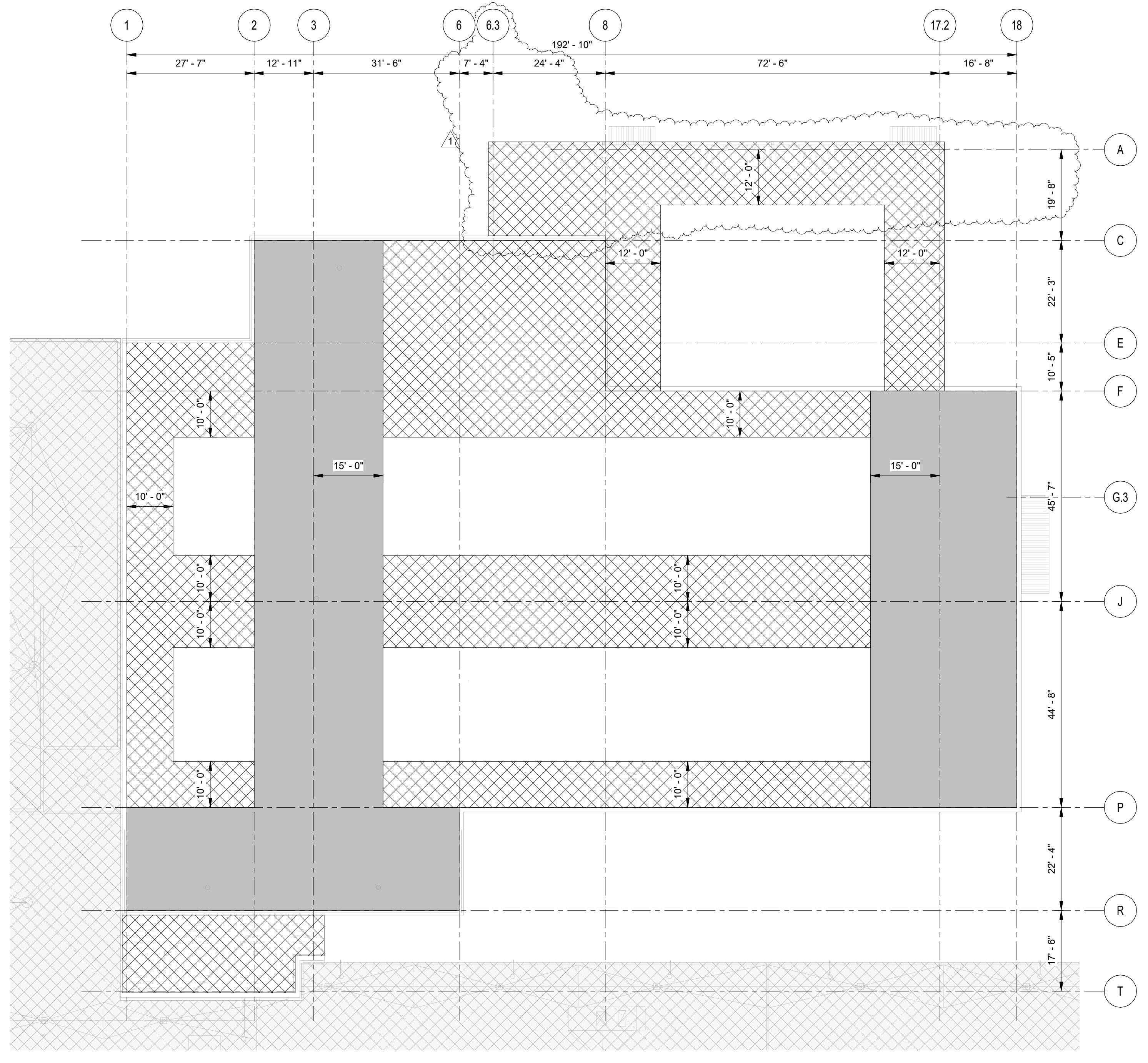
**COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF) (ATTACHED CANOPIES)**

IBC 2018: LOCATION PER ASCE 7-16: FIGURE 30.11-1A & 30.11-1B

EFFECTIVE WIND AREA (FT <sup>2</sup> )	NET PRESSURES		TOP SURFACE		BOTTOM SURFACE	
	DOWN	UPLIFT	+	-	+	-
<10	27.1	-18.1	24.1	-34.6	24.1	-24.1
20	25.3	-17.2	22.3	-31.0	22.3	-22.3
50	22.9	-16.0	19.9	-26.2	19.9	-21.0
>100	21.1	-16.0	18.1	-22.6	18.1	-19.6



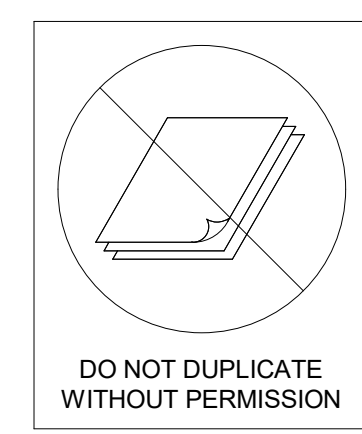
**COMPONENTS & CLADDING ROOF PLAN**  
 SCALE: 3/64" = 1'-0"  
 1 S0.4



**STEEL ROOF DECK ATTACHMENT PATTERN PLAN**  
 SCALE: 1/16" = 1'-0"  
 2 S0.4

NOTES:

1. BASE ATTACHMENT IS 5/8" DIA PUDDLE WELDS W/ #10 TEK SIDELAPS
2. [Symbol] DENOTES 22 GA DECK, 36/4 W/ (3) - SIDELAPS  
 [Symbol] DENOTES 22 GA DECK, 36/7 W/ (3) - SIDELAPS  
 [Symbol] DENOTES 22 GA DECK, 36/7 W/ (4) - SIDELAPS



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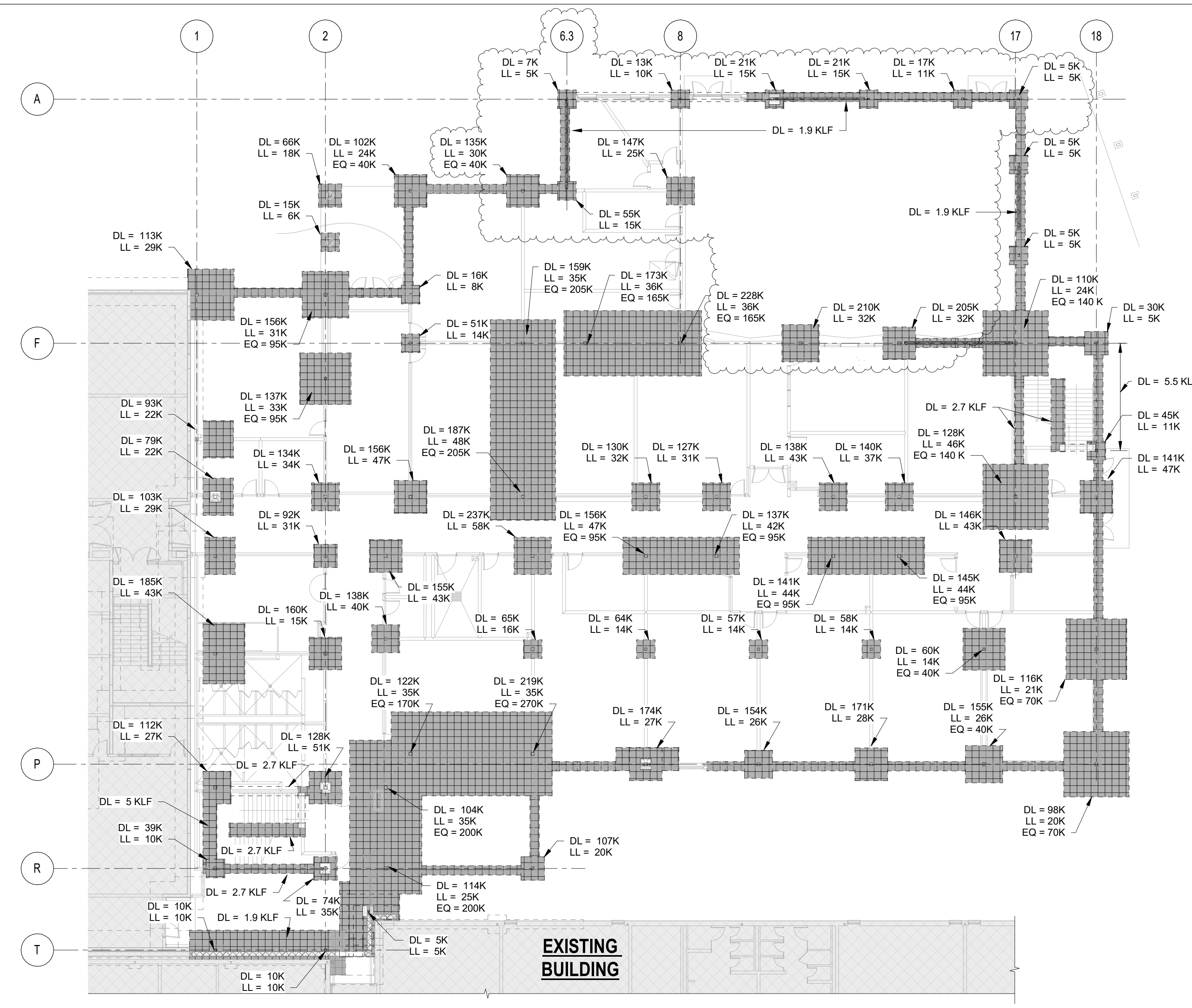
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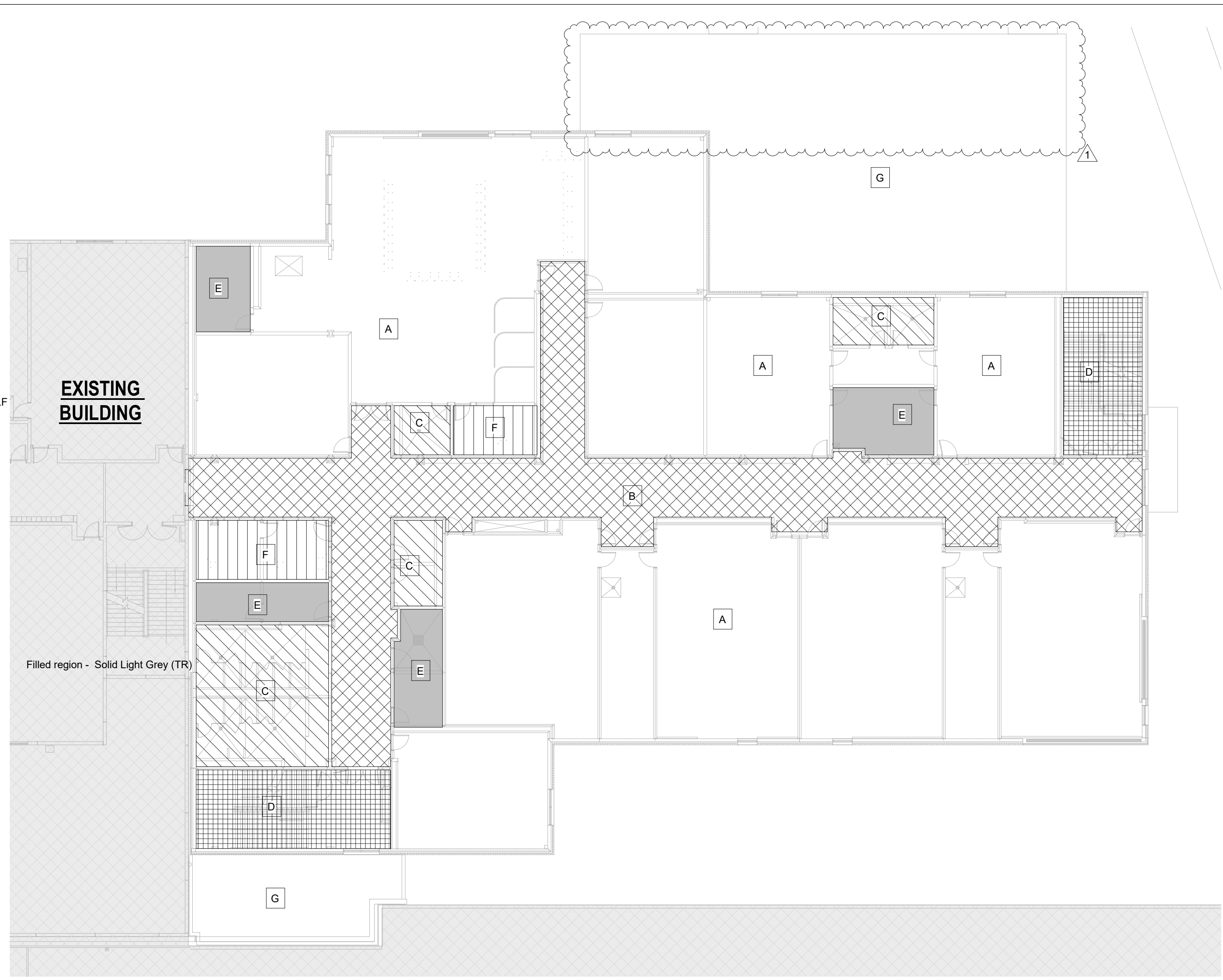
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S0.5



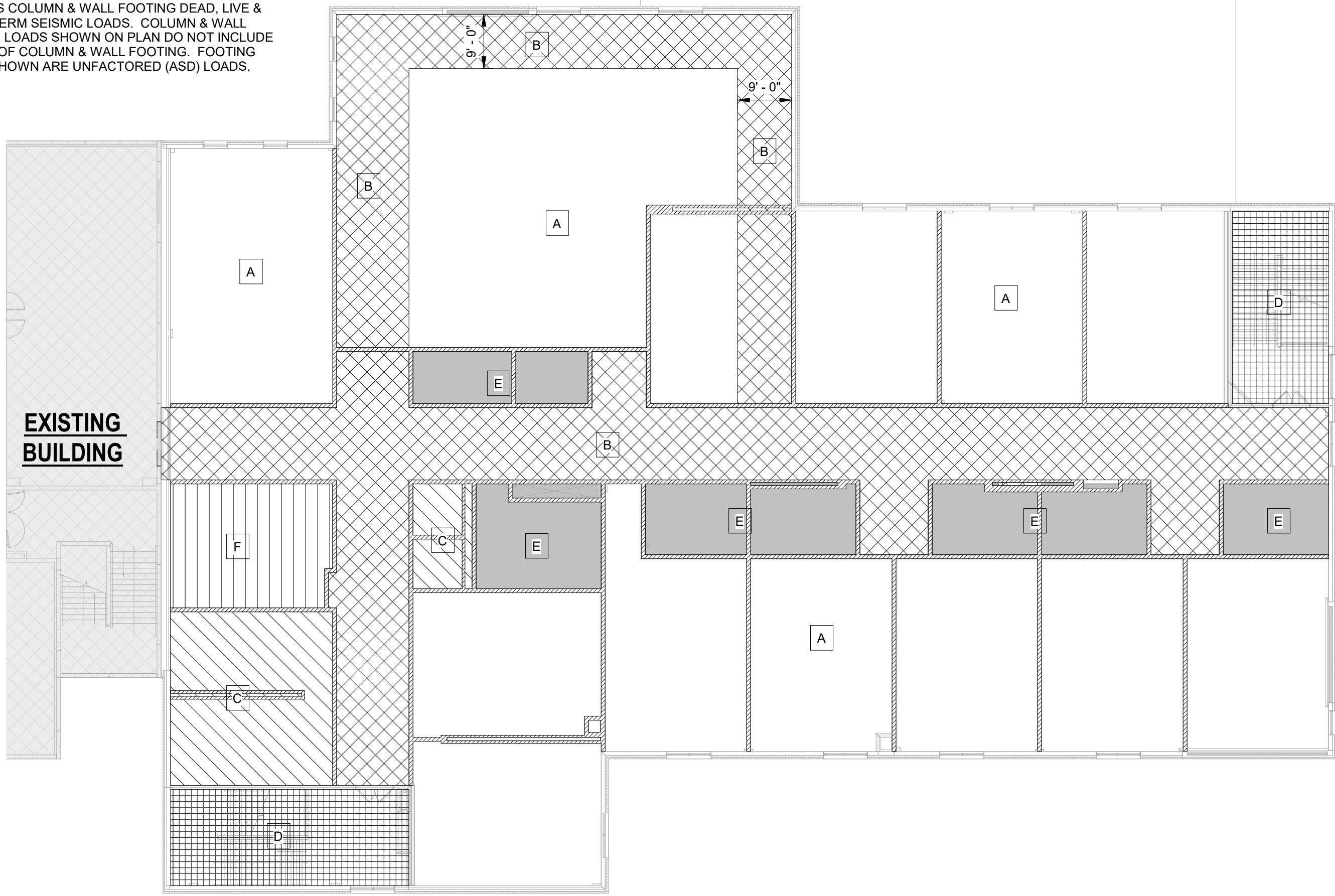
**AGGREGATE PIER LOAD MAP**  
SCALE: 1/16" = 1'-0"



**SECOND FLOOR LOAD MAP**  
SCALE: 1/16" = 1'-0"

**AGGREGATE PIER LOAD MAP NOTES:**

- DENOTES LOCATIONS WHERE COLUMN AND WALL SHALLOW FOUNDATIONS REQUIRE AN INTERMEDIATE FOUNDATION SYSTEM, SUCH AS RAMMED AGGREGATE PIERS, BELOW. SEE GEOTECHNICAL REPORT AND GENERAL NOTES FOR FURTHER DETAILS.
- THE PURPOSE OF THIS PLAN IS TO CLARIFY FOUNDATION LOCATIONS REQUIRING INTERMEDIATE FOUNDATION SYSTEM BELOW ONLY. SEE FOUNDATION PLANS FOR INFORMATION NOT SHOWN ON THIS PLAN.
- FOUNDATIONS BEARING ON AGGREGATE PIERS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 5000 PSF.
- DL = ##K DENOTES COLUMN & WALL FOOTING DEAD, LIVE & SHORT TERM SEISMIC LOADS. COLUMN & WALL FOOTING LOADS SHOWN ON PLAN DO NOT INCLUDE WEIGHT OF COLUMN & WALL FOOTING. FOOTING LOADS SHOWN ARE UNFACTORED (ASD) LOADS.
- EXTERIOR WALL FOOTING DL = 2.2 KLF UNLESS NOTED OTHERWISE ON PLAN.
- AT COMBINED FOOTING LOCATIONS WHERE EQ LOAD LISTED, SEISMIC LOAD ONLY ACTS ON ONE COLUMN PER COMBINED FOOTING (DOES NOT ACT SIMULTANEOUSLY ON EACH COLUMN BEARING ON COMBINED FOOTING)



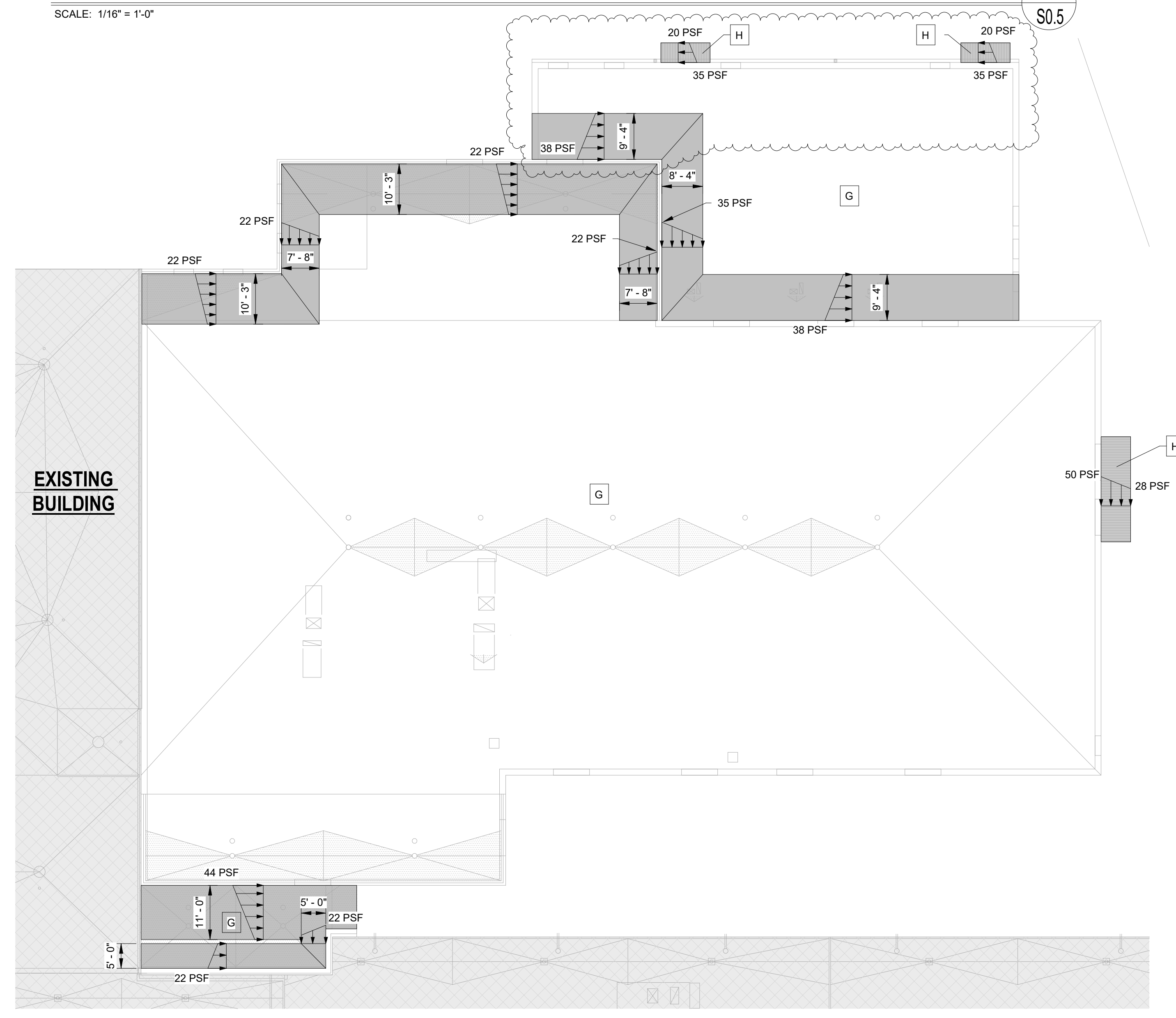
**THIRD FLOOR LOAD MAP**  
SCALE: 1/16" = 1'-0"

**LOAD MAP KEY**

LOAD MARK	OCCUPANCY OR USE	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	POINT LOAD (LB)	UNIFORM SNOW LOAD (PSF)	PARTITION LOAD (PSF)
A	CLASSROOM	15	40	Yes	1000	-	CMU SELF WEIGHT
B	CORRIDOR	15	80	Yes	1000	-	CMU SELF WEIGHT
C	RESTROOM	15	60	Yes	-	-	CMU SELF WEIGHT
D	STAIR	15	100	No	300	-	CMU SELF WEIGHT
E	STORAGE	15	125	No	2000	-	CMU SELF WEIGHT
F	OFFICE	15	50	Yes	2000	-	CMU SELF WEIGHT + 15 PSF PARTITION LOAD
G	ROOF	20	20	Yes	-	8.5	-
H	ROOF	20	20	Yes	-	9.5	-

**LOAD MAP NOTES:**

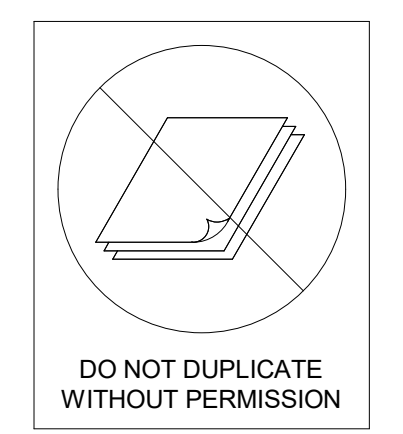
- FOR DESIGN LOAD CRITERIA - SEE S0.1
- SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE SELF-WEIGHT OF THE STRUCTURE.
- SEE FRAMING PLANS FOR DESIGN LOADS OF SPECIFIC ITEMS SUCH AS ELEVATORS AND MECHANICAL EQUIPMENT.
- LIVE LOAD REDUCTION SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.
- ALL LOADS ARE SERVICE LEVEL (ALLOWABLE STRESS DESIGN).
- DENOTES LOCATION OF ASSUMED FUTURE 8" CMU WALL AT THIRD FLOOR. STRUCTURE HAS BEEN DESIGNED FOR ADDITIONAL WEIGHT OF ASSUMED FUTURE 8" CMU WALLS AT LOCATIONS SHOWN ON THIRD FLOOR LOAD MAP.



**OVERALL ROOF LOAD MAP**  
SCALE: 1/16" = 1'-0"

**ROOF SNOW DRIFT LOAD NOTES:**

- DENOTES LOCATION OF SNOW DRIFT. SNOW LOAD VARIES LINEARLY BETWEEN MAXIMUM AND MINIMUM VALUES GIVEN ON PLAN. THE VALUES GIVEN ARE THE TOTAL SNOW LOAD (DRIFT+BALANCED FLAT ROOF SNOW). SEE LOAD MAP KEY FOR UNIFORM SNOW LOAD WHERE DRIFT LOADS DO NOT CONTROL.
- XXX PSF -XXX PSF DENOTES MAXIMUM SNOW DRIFT INTENSITY VALUE. LOW END VALUE (BALANCED ROOF SNOW LOAD VALUE TO BE USED WITH SNOW DRIFT COMBINATION = 3.5 PSF)

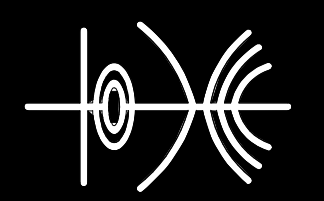


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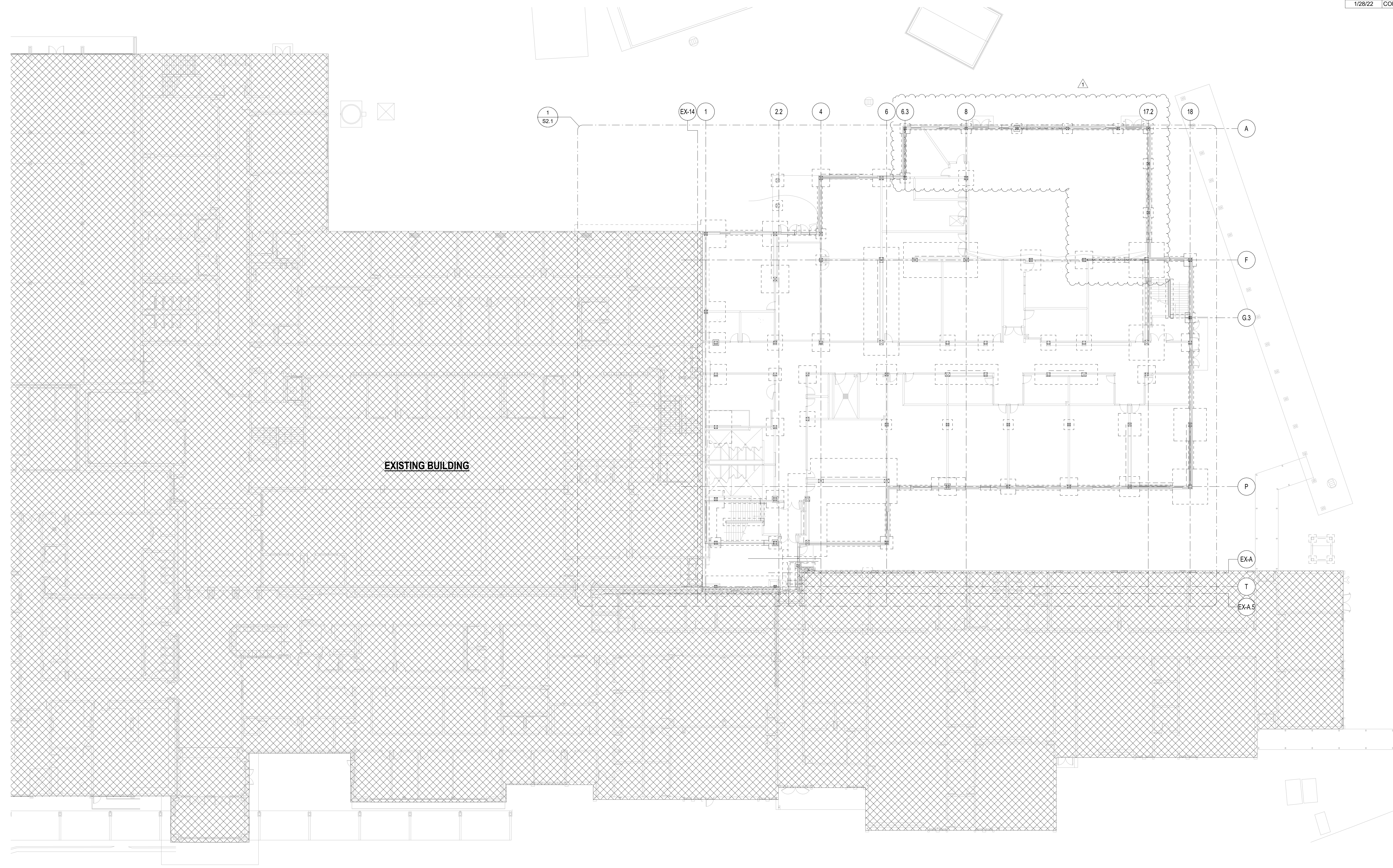
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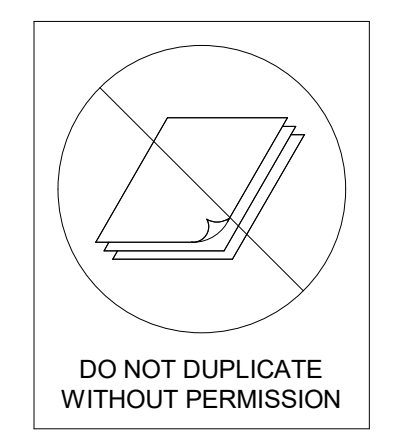


**EXISTING BUILDING**

**OVERALL MAIN LEVEL FOUNDATION PLAN -  
ADDITION AND ADJACENT EXISTING BUILDINGS**

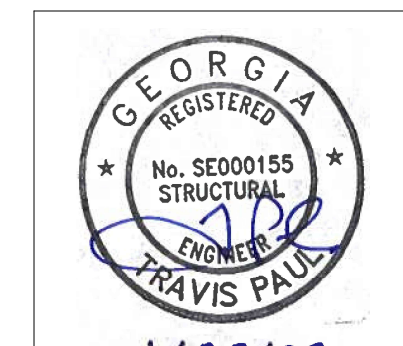
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1  
S1.1



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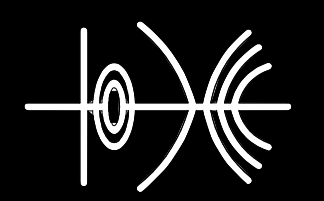
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**S1.1**

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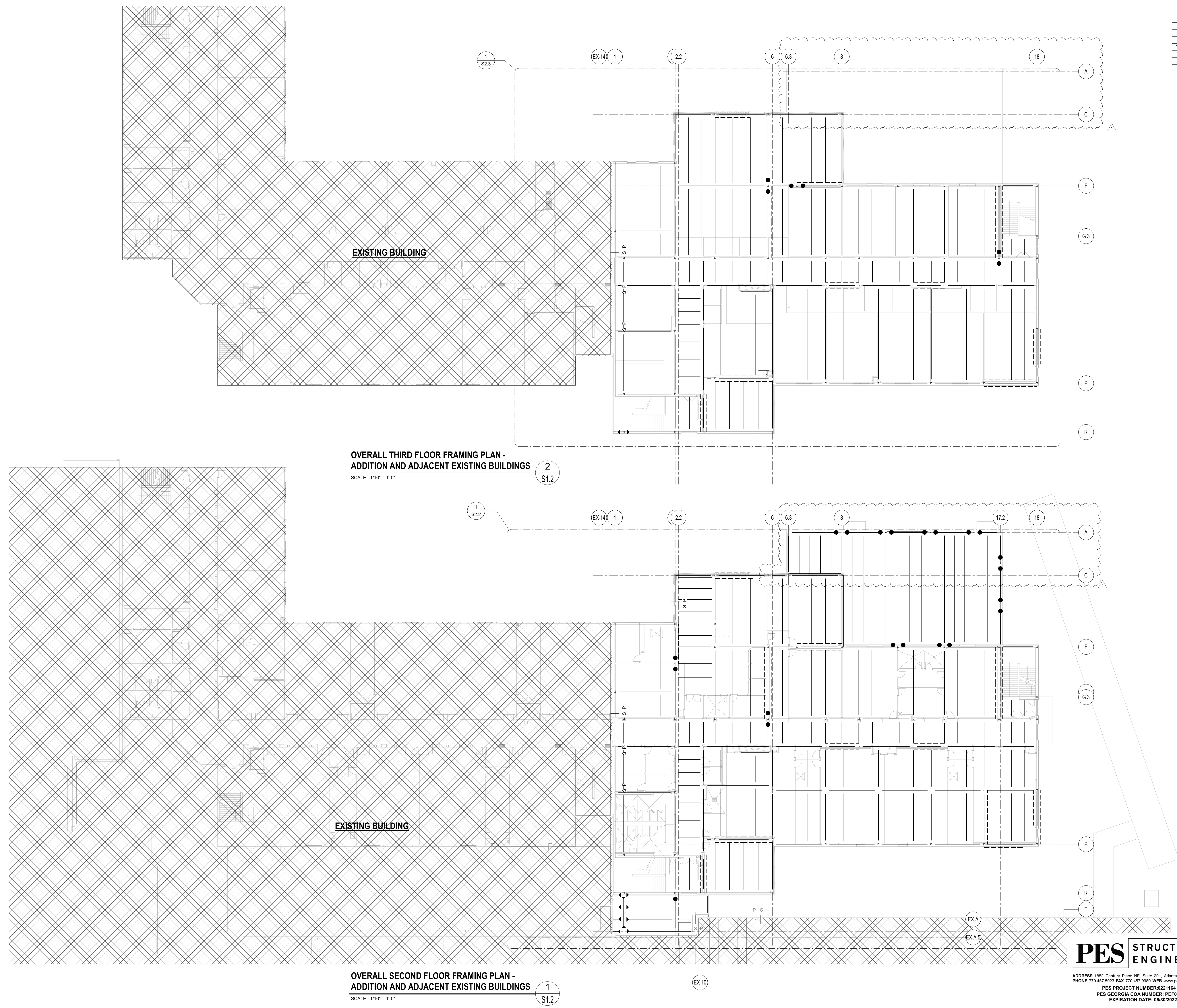
  
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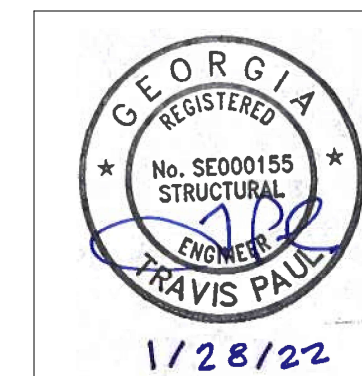
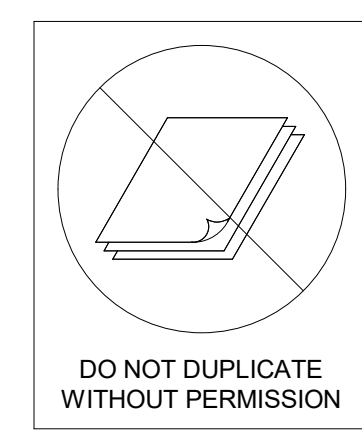
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**S1.2**



**OVERALL THIRD FLOOR FRAMING PLAN -  
ADDITION AND ADJACENT EXISTING BUILDINGS** 2  
 SCALE: 1/16" = 1'-0" S1.2

**OVERALL SECOND FLOOR FRAMING PLAN -  
ADDITION AND ADJACENT EXISTING BUILDINGS** 1  
 SCALE: 1/16" = 1'-0" S1.2



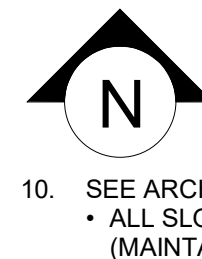
**PES STRUCTURAL ENGINEERS**  
 ADDRESS: 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
 PHONE: 770-457-5923 FAX: 770-457-3989 WEB: www.pesengineers.com  
 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022

1/28/22

**MAIN LEVEL FOUNDATION PLAN - EAST  
ADDITION AND EXISTING BLDG ALTERATIONS**

SCALE: 1/8" = 1'-0"  
FOUNDATION PLAN NOTES:

- 4" CONCRETE SLAB-ON-GROUND REINFORCED W/ WWR 6x6-W2 1W/2.1 @ 1-1/2" BELOW T/SLAB OVER 4" CRUSHED STONE BASE (SEE ARCH FOR MOISTURE BARRIER LOCATIONS)
- T/SLAB = SEE CIVIL REF T/SLAB = 0'-0"
- BASE PLATE MARK SEE 5/S3.1  
COLUMN MARK (SEE SCHEDULE S3.1)  
CONCRETE PIER MARK (SEE SCHEDULE ON S3.1)  
FOUNDATION MARK (SEE SCHEDULE ON S3.1)
- TOP OF FOOTING ELEVATION
1. SUBMIT PROPOSED SLAB-ON-GROUND CONSTRUCTION OR CONTRACTION JOINT LOCATIONS. FOR SCHEMATIC CJ PLAN SEE 1/S3.11
- FOR TRENCHES ADJACENT TO FOUNDATIONS SEE 1/S3.2
- FOR PIPING PASSING UNDER WALL FOUNDATIONS SEE 2/S3.2
- FOR PIPING PASSING UNDER FOOTINGS SHALL BE PLACED AND INSPECTED BEFORE FOUNDATIONS ARE PREPARED.
- GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY GC SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- DENOTES STEP IN FOUNDATION SEE 3/S3.2
- DENOTES BRACKED FRAME - SEE ELEVATIONS
- INSTALL THICKENED SLAB UNDER STAIR STRINGER SEE 9/S3.11
- DENOTES DEPRESSED SLAB. SEE 3/S3.11 & ARCH.

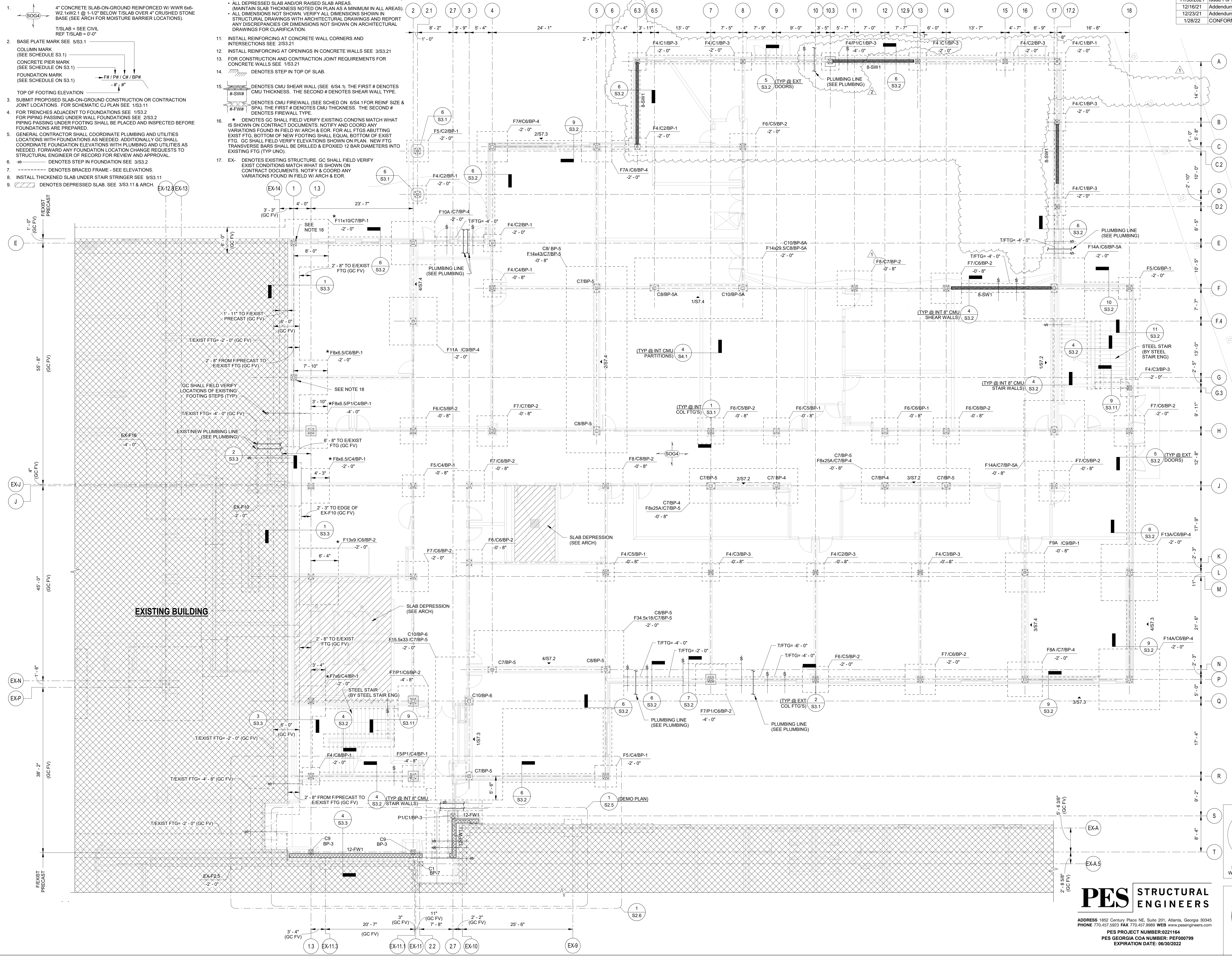


1  
S2.1

18. DRILL AND EPOXY (4) - 3/4" DIA A36 ALL-THREAD ANCHOR RODS FOR BASE PLATE INTO TOP OF EXISTING FOOTING (EMBED = 12"; PROJECTION = 7")

- SEE ARCHITECTURAL DRAWINGS FOR:
  - ALL SLOPED SLAB AREAS.
  - (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS)
  - ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS)
  - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- INSTALL REINFORCING AT CONCRETE WALL CORNERS AND INTERSECTIONS SEE 2/S3.2
- INSTALL REINFORCING AT OPENINGS IN CONCRETE WALLS SEE 3/S3.21
- FOR CONSTRUCTION AND CONTRACTION JOINT REQUIREMENTS FOR CONCRETE WALLS SEE 1/S3.21
- DENOTES STEP IN TOP OF SLAB.
- DENOTES CMU SHEAR WALL (SEE 6/S4.1). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES SHEAR WALL TYPE.
- DENOTES CMU FIREWALL (SEE SCHED ON 6/S4.1 FOR REIN SIZE & SPA). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES FIREWALL TYPE.
- \* --- DENOTES GC SHALL FIELD VERIFY EXISTING CONDNS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY AND COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR. FOR ALL FTGS ABUTTING EXIST FTG, BOTTOM OF NEW FOOTING SHALL EQUAL BOTTOM OF EXIST FTG. GC SHALL FIELD VERIFY ELEVATIONS SHOWN ON PLAN. NEW FTG TRANSVERSE BARS SHALL BE DRILLED & EPOXYED 12 BAR DIAMETERS INTO EXISTING FTG (TYP UNO).
- EX- --- DENOTES EXISTING STRUCTURE. GC SHALL FIELD VERIFY EXIST CONDITIONS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY & COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR.

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DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
12/16/21	Addendum No. 2	1
12/23/21	Addendum No. 3	2
1/28/22	CONFORMED SET	



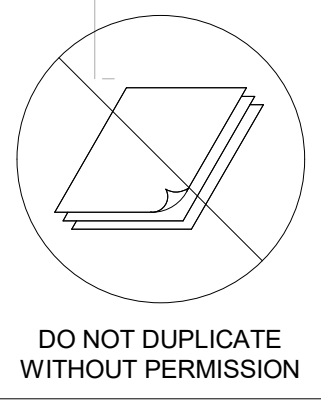
FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**  
cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

**PES STRUCTURAL ENGINEERS**

ADDRESS 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
PHONE 770-457-5923 FAX 770-457-5999 WEB www.pesengineers.com  
PES PROJECT NUMBER: 0221164  
PES GEORGIA COA NUMBER: PEF000799  
EXPIRATION DATE: 06/30/2022

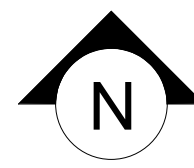


S2.1

1/28/22

SECOND FLOOR FRAMING PLAN - EAST  
ADDITION AND EXISTING BLDG ALTERATIONS

1  
S2.2



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

STEEL FLOOR FRAMING PLAN NOTES:

1. DENOTES 3 1/2" LIGHT WEIGHT CONCRETE ON 2" ZO GAUGE COMPOSITE STEEL DECK (TOTAL THICKNESS = 5 1/2"). W/WVR 6x6-W2.1xW2.1 IN FLAT SHEETS AT MID-DEPTH OF SLAB.  
MINIMUM DECK PROPERTIES:  
I<sub>p</sub> = 0.409 IN<sup>4</sup>/FT  
I<sub>w</sub> = 0.409 IN<sup>4</sup>/FT  
S<sub>p</sub> = 0.341 IN<sup>3</sup>/FT  
S<sub>w</sub> = 0.346 IN<sup>3</sup>/FT
2. T/S LAB = (+) 16' - 0"
3. T/STEEL = (+) 15'-6 1/2" T/STEEL = BOTTOM OF DECK, UNLESS NOTED OTHERWISE.
4. DENOTES THE AMOUNT OF CAMBER ON THE BEAM OR GIRDER.  
DENOTES QUANTITY OF 3/4" DIA x 3 1/2" LG HEADED STUD ANCHORS WELDED TO TOP FLANGE OF STEEL BEAM.  
DENOTES BEAM SIZE  
TOP OF STEEL ELEVATION (UNLESS NOTED OTHERWISE)  
FOR TYPICAL COMPOSITE STEEL FRAMING SECTIONS AND DETAILS SEE S5.1
5. GENERAL CONTRACTOR SHALL VERIFY ALL OPENING DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. V=MK DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) SHEAR REACTION. IF REACTION IS NOT SHOWN, DESIGN FOR 20 K.
7. M=MK-FT DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) MOMENT REACTION (+ OR -). IF FORCE IS NOT SHOWN, DESIGN FOR 20 K-FT.
8. A=MK DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) AXIAL DRAG FORCE. IF FORCE IS NOT SHOWN, DESIGN FOR 5 K.
9. DENOTES BRACED FRAME - SEE ELEVATIONS.
10. BB DENOTES BEAM BOTTOM FLANGE BRACE PER DETAIL 10/S6.1.
11. CB DENOTES COLUMN BRACE PER DETAIL 5/S6.2.

STEEL ROOF FRAMING PLAN NOTES:

1. SEE S2.4 FOR ROOF FRAMING PLAN NOTES.

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12/16/21	Addendum No. 2	1
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NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024

FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE Issue Date  
DRW BY: RAS  
CHK BY: ABS  
APP. BY: SHL-001-21

**PES STRUCTURAL ENGINEERS**

REGISTERED PROFESSIONAL ENGINEER  
NO. SE000155  
TRAVIS PAUL

ADDRESS 1852 Century Plaza NE, Suite 201, Atlanta, Georgia 30345  
PHONE 770-457-5050 FAX 770-457-5989 WEB www.pesengineers.com

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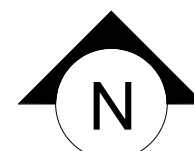
1/28/22

**S2.2**

**THIRD FLOOR FRAMING PLAN - EAST ADDITION  
AND EXISTING BUILDING ALTERATIONS**

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

1  
S2.3



**STEEL FLOOR FRAMING PLAN NOTES:**

- DENOTES 3 1/2" LIGHT WEIGHT CONCRETE ON 2" 20 GAUGE COMPOSITE STEEL DECK (TOTAL THICKNESS = 5 1/2") W/ WWR 6X6-W2.1XW2.1 IN FLAT SHEETS AT MID-DEPTH OF SLAB.  
MINIMUM DECK PROPERTIES:  
I<sub>p</sub> = 0.439 IN<sup>4</sup>/FT  
I<sub>n</sub> = 0.406 IN<sup>4</sup>/FT  
S<sub>p</sub> = 0.341 IN<sup>3</sup>/FT  
S<sub>n</sub> = 0.346 IN<sup>3</sup>/FT
- TISLAB = (+) 3/2" - 0"
- TISTEEL = (+) 3/4" 1/2" TISTEEL = BOTTOM OF DECK, UNLESS NOTED OTHERWISE.
- DENOTES THE AMOUNT OF CAMBER ON THE BEAM OR GIRDER.  
DENOTES QUANTITY OF 3/4" DIA x 3 1/2" LG HEADED STUD ANCHORS WELDED TO TOP FLANGE OF STEEL BEAM.  
DENOTES BEAM SIZE.  
TOP OF STEEL ELEVATION (UNLESS NOTED OTHERWISE)
- FOR TYPICAL COMPOSITE STEEL FRAMING SECTIONS AND DETAILS SEE S5.1
- GENERAL CONTRACTOR SHALL VERIFY ALL OPENING DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- V=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) SHEAR REACTION. IF REACTION IS NOT SHOWN, DESIGN FOR 20 K.
- M=#K-FT DENOTES MOMENT CONNECTION. DESIGN CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.
- M=#K-FT DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) MOMENT REACTION (+ OR -). IF FORCE IS NOT SHOWN, DESIGN FOR 20 K-FT.
- DENOTES DRAG CONNECTION. DESIGN CONNECTIONS FOR AXIAL FORCES INDICATED ON PLAN AND IN ELEVATIONS.
- A=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) AXIAL DRAG FORCE. IF FORCE IS NOT SHOWN, DESIGN FOR 5 K.
- DENOTES BRACED FRAME - SEE ELEVATIONS.
- BB DENOTES BEAM BOTTOM FLANGE BRACE PER DETAIL 10/S6.1
- CB DENOTES COLUMN BRACE PER DETAIL 5/S6.2

- DENOTES CMU SHEAR WALL (SEE S4.1). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES SHEAR WALL TYPE.
- DENOTES CMU FIREWALL (SEE SCHED ON S4.1 FOR REIN. SIZE & SPA). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES FIREWALL TYPE.
- DENOTES DEPRESSED SLAB. SEE ARCH FOR EXTENTS.
- VENEER RELIEF ANGLE REQ'D @ ENTIRE PERIMETER OF LEVEL 3 FLOOR. SEE SECTIONS AROUND PERIMETER OF BUILDING FOR RELIEF ANGLE SIZE AND DETAILING
- EX- DENOTES EXISTING STRUCTURE. GC SHALL FIELD VERIFY EXIST. CONDITIONS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY & COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR.

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DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
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11/30/2021	Issue For Bid	
12/16/21	Addendum No. 2	1
1/28/22	CONFORMED SET	



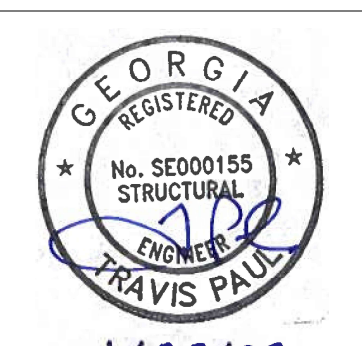
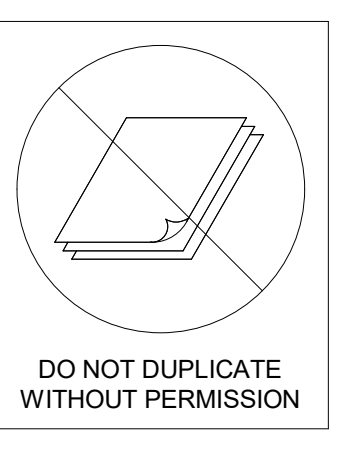
**NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

**cunningham forehand matthews moore**

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PHONE 770-457-5923 FAX 770-457-5989 WEB www.pesengineers.com  
PES PROJECT NUMBER: 021164  
PES GEORGIA COA NUMBER: PEF000799  
EXPIRATION DATE: 06/30/2022

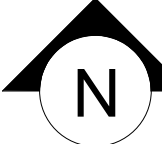


1/28/22



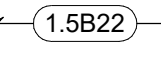
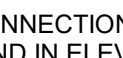



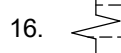
**ROOF FRAMING PLAN - EAST ADDITION**

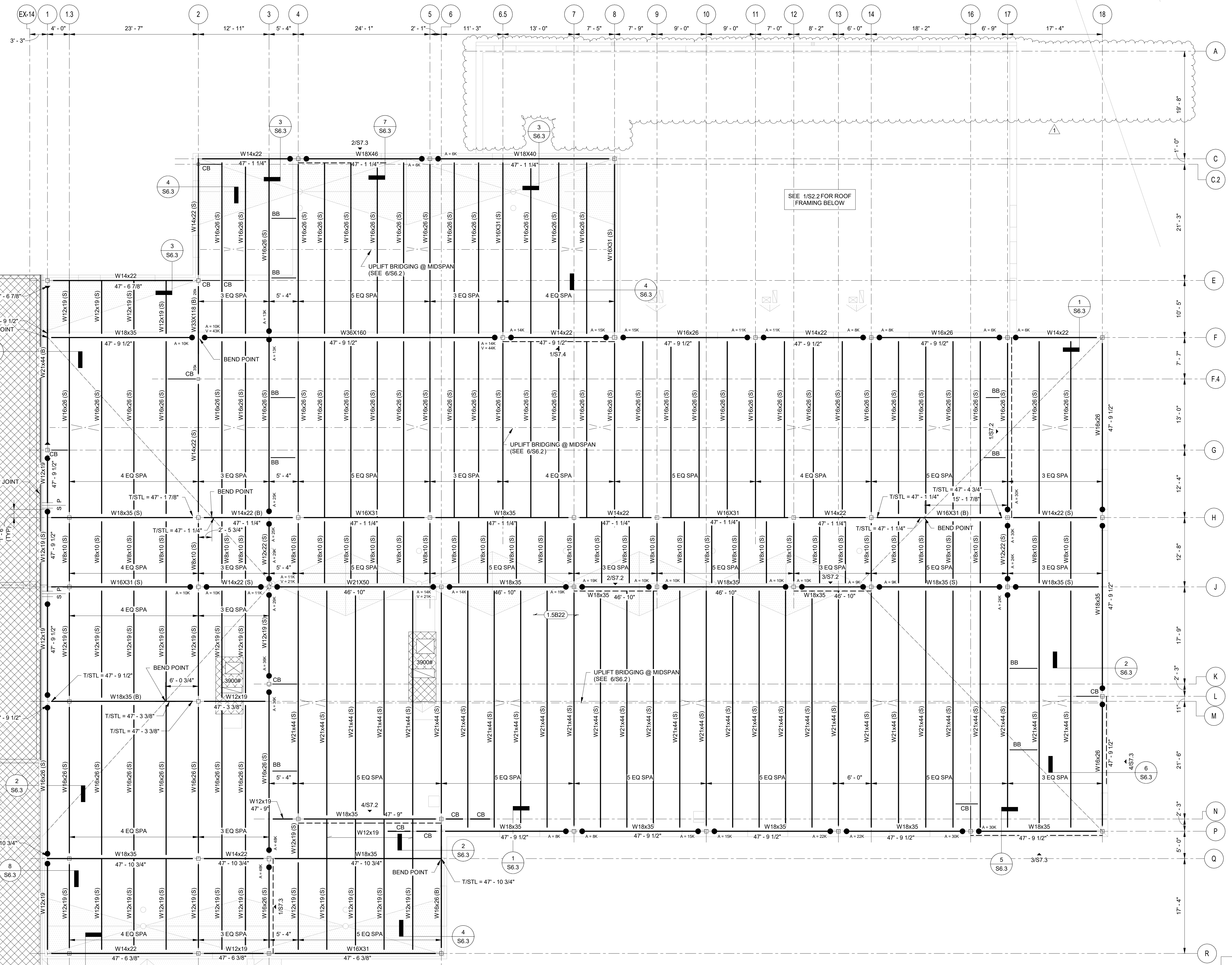
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S2.4



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

**STEEL ROOF FRAMING PLAN NOTES:**

1.  DENOTES 22 GAUGE 1 1/2" TYPE B WIDE RIB STEEL ROOF DECK. MINIMUM DECK PROPERTIES:  
I<sub>p</sub> = 0.155 IN<sup>4</sup>/FT  
I<sub>n</sub> = 0.178 IN<sup>4</sup>/FT  
S<sub>p</sub> = 0.169 IN<sup>3</sup>/FT  
S<sub>n</sub> = 0.179 IN<sup>3</sup>/FT
2. SEE PLAN FOR TOP OF STEEL ELEVATIONS.  
(+) # - #/#: DENOTES TOP OF STEEL ELEVATION (TYP UNO - SEE PLAN)  
W-SHAPE (S): DENOTES BEAM SLOPES @ DECK BEARING  
W-SHAPE (B): DENOTES BENT BEAM, MITER AND CJP WELD BENT BEAMS @ BEND POINT.
3. NOTIFY STRUCTURAL ENGINEER OF RECORD IF PIPING WEIGHT IS IN EXCESS OF THOSE NOTED IN SCHEDULE. FOR ALL PIPING SUPPORTED FROM ROOF STRUCTURE SEE 50.3
4. DO NOT SUPPORT MULTIPLE SPRINKLER MAINS FROM THE SAME BEAM. GENERAL CONTRACTOR TO PROVIDE SPRINKLER DRAWINGS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND COORDINATION PRIOR TO BEAM FABRICATION.
5. PROVIDE SUPPORT FRAME AT ROOF DRAINS, VENTS, EXHAUST FANS, HATCHES, AND OTHER OPENINGS LARGER THAN 12" PER 118.2. COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
6. ROOF EDGE ANGLES SHALL BE CONTINUOUS. FOR SPLICE CONNECTION SEE 2/S6.2
7. MAXIMUM SPACING OF STEEL ROOF BEAMS SHALL BE 6'-0" OC, UNLESS NOTED OTHERWISE.
8. V=MK DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) SHEAR REACTION. IF REACTION IS NOT SHOWN, DESIGN FOR 20 K.
9.  DENOTES MOMENT CONNECTION. DESIGN CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.  
M=MK-FT DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) MOMENT REACTION (+ OR -). IF FORCE IS NOT SHOWN, DESIGN FOR 20 K-FT.
10.  DENOTES DRAG CONNECTION. DESIGN CONNECTIONS FOR AXIAL FORCES INDICATED ON PLAN AND IN ELEVATIONS.
11. A=MK DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) AXIAL DRAG FORCE. IF FORCE IS NOT SHOWN, DESIGN FOR 5 K.
12.  DENOTES BEAM BOTTOM FLANGE BRACE PER DETAIL 10/S6.1
13.  DENOTES COLUMN BRACE PER DETAIL 5/S6.2
16.  DENOTES CMU SHEAR WALL BELOW.
17. EX-# DENOTES EXISTING STRUCTURE. GC SHALL FIELD VERIFY EXIST CONDITIONS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY & COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR.



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1/28/22	CONFORMED SET	

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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE Issue Date

BY RAS

SHL-001-21

ABS

Issue Date

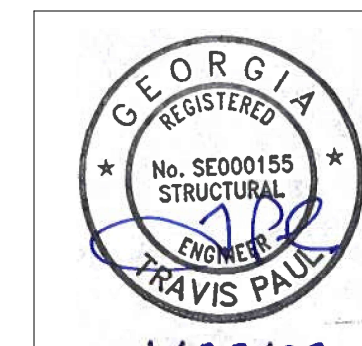
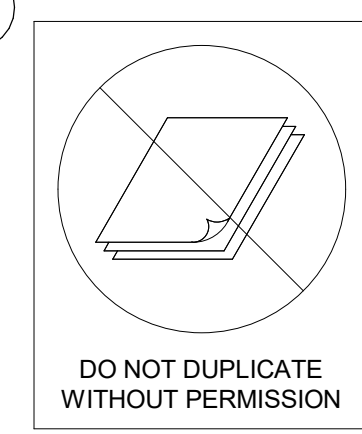
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**PES STRUCTURAL ENGINEERS**

ADDRESS 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
PHONE 770.457.5923 FAX 770.457.5989 WEB www.pesengineers.com

PES PROJECT NUMBER:021164  
PES GEORGIA COA NUMBER: PEF000799  
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1/28/22

**S2.4**

DATE	REVISIONS	NO.
11/1/2021	Blgd. Permit Set	
11/1/2021	DOE Final	
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NORTH GWINNETT HIGH SCHOOL  
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 GWINNETT COUNTY, GEORGIA

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DATE: Issue Date

DRAWN BY: ABS

CHECKED BY: RAS

APP. NO.: SHL-001-21

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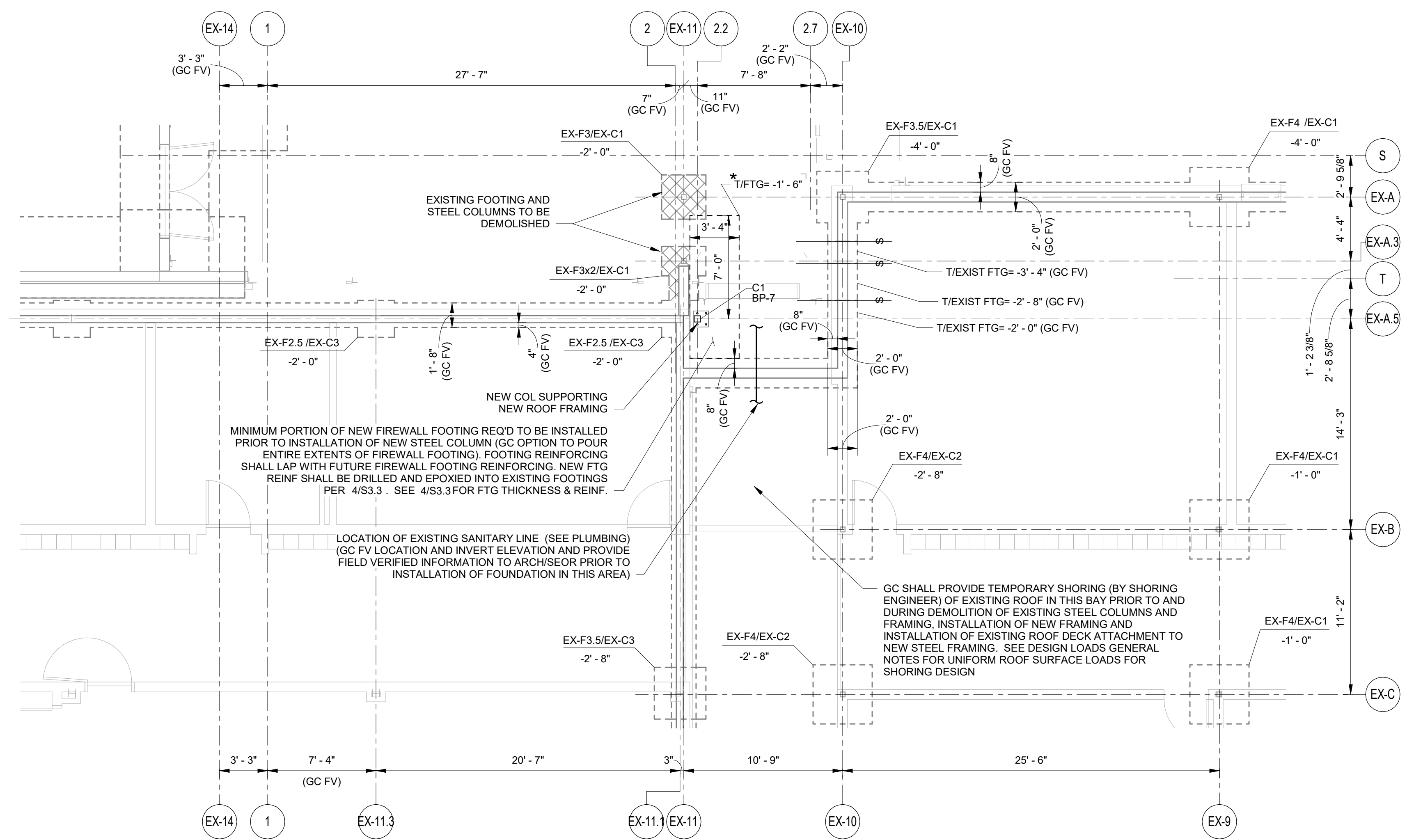
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DATE: Issue Date

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APP. NO.: SHL-001-21



**PARTIAL MAIN LEVEL FDN DEMO PLAN - ADDITION AND ADJACENT EXISTING BUILDINGS**  
 SCALE: 3/16" = 1'-0"  
 1 S2.5

EXISTING FOUNDATION SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
EX-F2.5	2'-6"	2'-6"	1'-0"	-	-
EX-F3	3'-0"	3'-0"	1'-0"	-	-
EX-F3.5	3'-6"	3'-6"	1'-0"	-	-
EX-F4	4'-0"	4'-0"	1'-0"	-	-
EX-F10	10'-0"	10'-0"	1'-6"	-	-
EX-F16	16'-0"	16'-0"	2'-6"	-	-
EX-F17	17'-0"	17'-0"	2'-6"	-	-

EXISTING COLUMN SCHEDULE	
MARK	SIZE
EX-C1	EX-HSS44x14
EX-C2	EX-HSS44x12
EX-C3	EX-Wide Flange Column

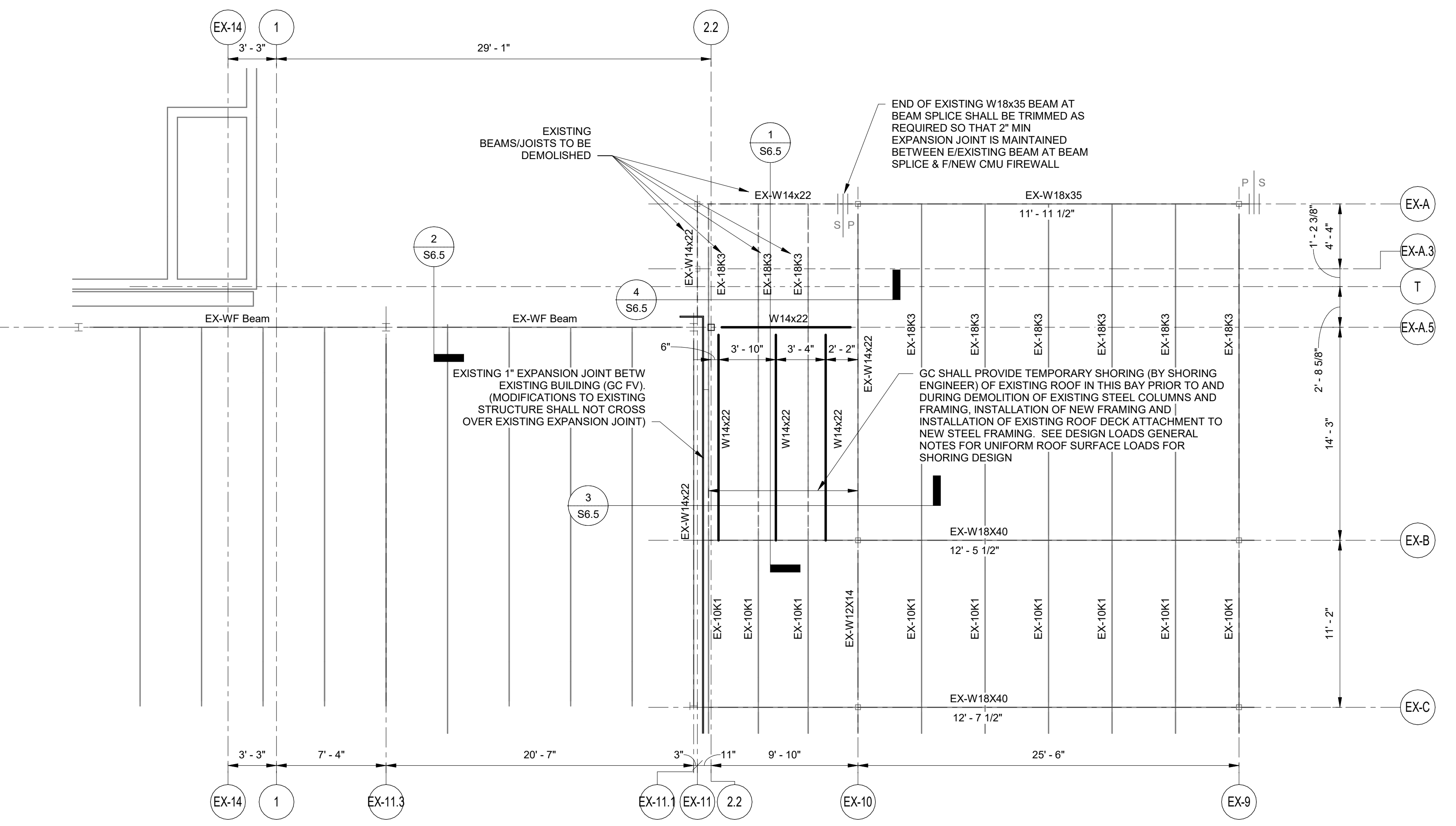
NOTE: ALL EXISTING WALL FOOTINGS ARE 1'-0" THICK PER EXISTING STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE.

**FOUNDATION PLAN NOTES:**

- 4" CONCRETE SLAB-ON-GROUND REINFORCED W/ WWR 6x6-W2.1xW2.1 @ 1'-1 1/2" BELOW T/S LAB OVER 4" CRUSHED STONE BASE (SEE ARCH FOR MOISTURE BARRIER LOCATIONS).  
T/S LAB = SEE CIVIL REF T/S LAB = 0'-0"
- BASE PLATE MARK SEE S/3.1  
COLUMN MARK (SEE SCHEDULE S3.1)  
CONCRETE PIER MARK (SEE SCHEDULE ON S3.1)  
FOUNDATION MARK (SEE SCHEDULE ON S3.1)
- TOP OF FOOTING ELEVATION
- FOR TRENCHES ADJACENT TO FOUNDATIONS SEE 1/S3.2  
FOR PIPING PASSING UNDER WALL FOUNDATIONS SEE 2/S3.2  
FOR PIPING PASSING UNDER STAR STRINGER SEE 9/S3.11
- GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY GC SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- DENOTES BRACED FRAME - SEE ELEVATIONS.
- INSTALL THICKENED SLAB UNDER STAR STRINGER SEE 9/S3.11
- DENOTES DEPRESSED SLAB. SEE 3/S3.11 & ARCH.

- SEE ARCHITECTURAL DRAWINGS FOR:
  - ALL SLOPED SLAB AREAS. (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
  - ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS. (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
  - ALL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- INSTALL REINFORCING AT CONCRETE WALL CORNERS AND INTERSECTIONS SEE 2/S3.2
- INSTALL REINFORCING AT OPENINGS IN CONCRETE WALLS SEE 3/S3.2
- FOR CONSTRUCTION AND CONTRACTION JOINT REQUIREMENTS FOR CONCRETE WALLS SEE 1/S3.2
- DENOTES STEP IN TOP OF SLAB.
- DENOTES CMU SHEAR WALL (SEE 6/S4.1). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES SHEAR WALL TYPE.
- DENOTES CMU FIREWALL (SEE SCHED ON 6/S4.1 FOR REIN SIZE & SPA). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES FIREWALL TYPE.
- \* DENOTES GC SHALL FIELD VERIFY EXISTING COND'NS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY AND COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR. FOR ALL FTGS ABUTTING EXIST FTG, BOTTOM OF NEW FOOTING SHALL EQUAL BOTTOM OF EXIST FTG. GC SHALL FIELD VERIFY ELEVATIONS SHOWN ON PLAN. NEW FTG TRANSVERSE BARS SHALL BE DRILLED & EPOXIED 12 BAR DIAMETERS INTO EXISTING FTG (TYP AND).
- EX- DENOTES EXISTING STRUCTURE. GC SHALL FIELD VERIFY EXIST CONDITIONS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY & COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR.

18. DRILL AND EPOXY (4) - 3/4" DIA A36 ALL-THREAD ANCHOR RODS FOR BASE PLATE INTO TOP OF EXISTING FOOTING (EMBED = 12"; PROJECTION = 7")



**PARTIAL SECOND LEVEL FRAMING DEMO PLAN - EXISTING BUILDING ALTERATIONS**  
 SCALE: 3/16" = 1'-0"  
 2 S2.5

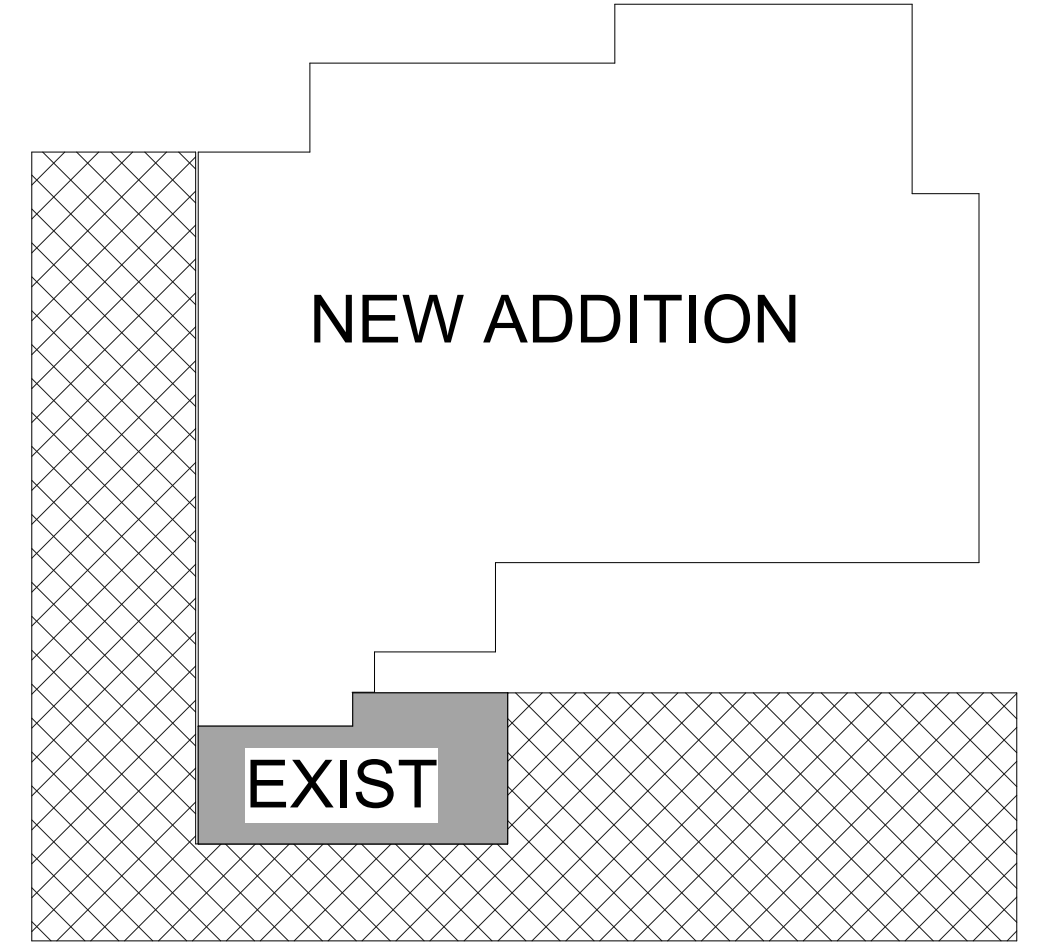
**STEEL FLOOR FRAMING PLAN NOTES:**

- DENOTES 3 1/2" LIGHT WEIGHT CONCRETE ON 2'-20 GAUGE COMPOSITE STEEL DECK (TOTAL THICKNESS = 5 1/2") W/ WWR 6x6-W2.1xW2.1 IN FLAT SHEETS AT MID-DEPTH OF SLAB.  
MINIMUM DECK PROPERTIES:  
I<sub>p</sub> = 0.409 IN<sup>4</sup>/FT  
I<sub>x</sub> = 0.406 IN<sup>4</sup>/FT  
S<sub>x</sub> = 0.341 IN<sup>3</sup>/FT  
S<sub>y</sub> = 0.346 IN<sup>3</sup>/FT
- T/S LAB = (+) 16'-0"
- T/STEEL = (+) 15'-6 1/2" T/STEEL = BOTTOM OF DECK, UNLESS NOTED OTHERWISE.
- DENOTES THE AMOUNT OF CAMBER ON THE BEAM OR GIRDER.  
DENOTES QUANTITY OF 3/4" DIA x 3 1/2" LG HEADED STUD ANCHORS WELDED TO TOP FLANGE OF STEEL BEAM
- DENOTES BEAM SIZE  
TOP OF STEEL ELEVATION (UNLESS NOTED OTHERWISE)
- FOR TYPICAL COMPOSITE STEEL FRAMING SECTIONS AND DETAILS SEE S5.1
- GENERAL CONTRACTOR SHALL VERIFY ALL OPENING DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- V=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) SHEAR REACTION. IF REACTION IS NOT SHOWN, DESIGN FOR 20 K.
- M=#K-DENOTES MOMENT CONNECTION. DESIGN CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.
- M=#K-FT DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) MOMENT REACTION (+ OR -). IF FORCE IS NOT SHOWN, DESIGN FOR 20 K-F.
- DENOTES DRAG CONNECTION. DESIGN CONNECTIONS FOR AXIAL FORCES INDICATED ON PLAN AND IN ELEVATIONS.
- A=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) AXIAL DRAG FORCE. IF FORCE IS NOT SHOWN, DESIGN FOR 5 K.
- DENOTES BRACED FRAME - SEE ELEVATIONS.
- BB DENOTES BEAM BOTTOM FLANGE BRACE PER DETAIL 10/S6.1
- CB DENOTES COLUMN BRACE PER DETAIL 5/S6.2

- DENOTES CMU SHEAR WALL (SEE S4.1). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES SHEAR WALL TYPE.
- DENOTES CMU FIREWALL (SEE SCHED ON S4.1 FOR REIN SIZE & SPA). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES FIREWALL TYPE.
- DENOTES DEPRESSED SLAB. SEE ARCH FOR EXTENTS.
- EX- DENOTES EXISTING STRUCTURE. GC SHALL FIELD VERIFY EXIST CONDITIONS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY & COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR.

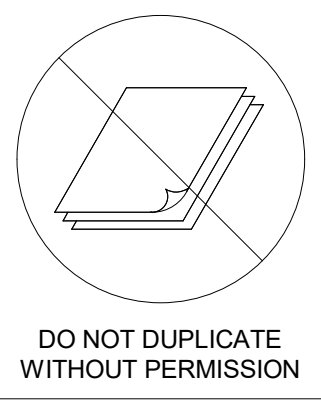
**STEEL ROOF FRAMING PLAN NOTES:**

- SEE S2.4 FOR ROOF FRAMING PLAN NOTES.



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 PHONE 770-457-5923 FAX 770-457-5999 WEB www.pesengineers.com  
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 PES GEORGIA COA NUMBER: PEF00799  
 EXPIRATION DATE: 06/30/2022

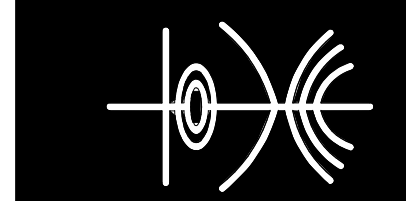


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S2.5

1/28/22

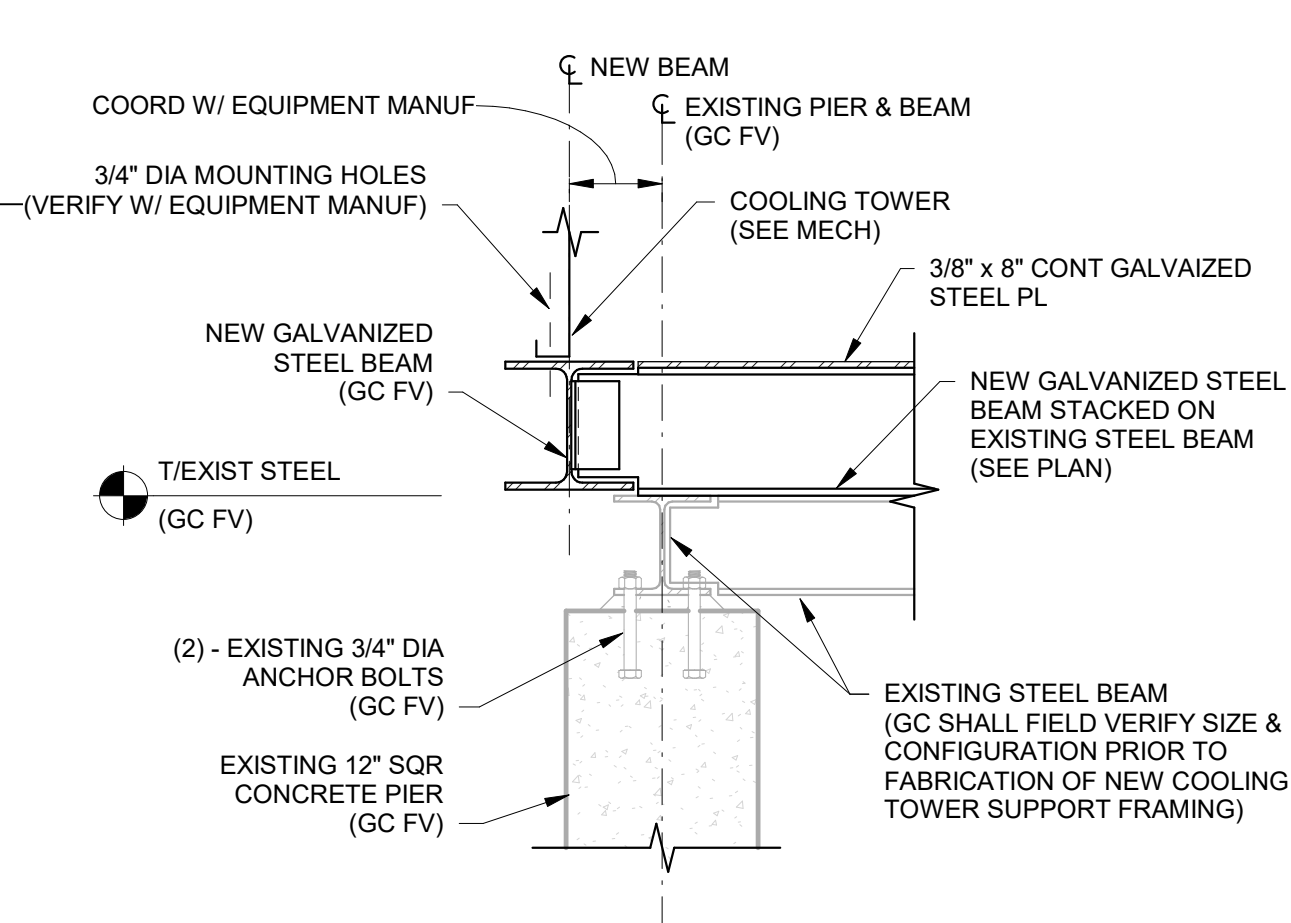
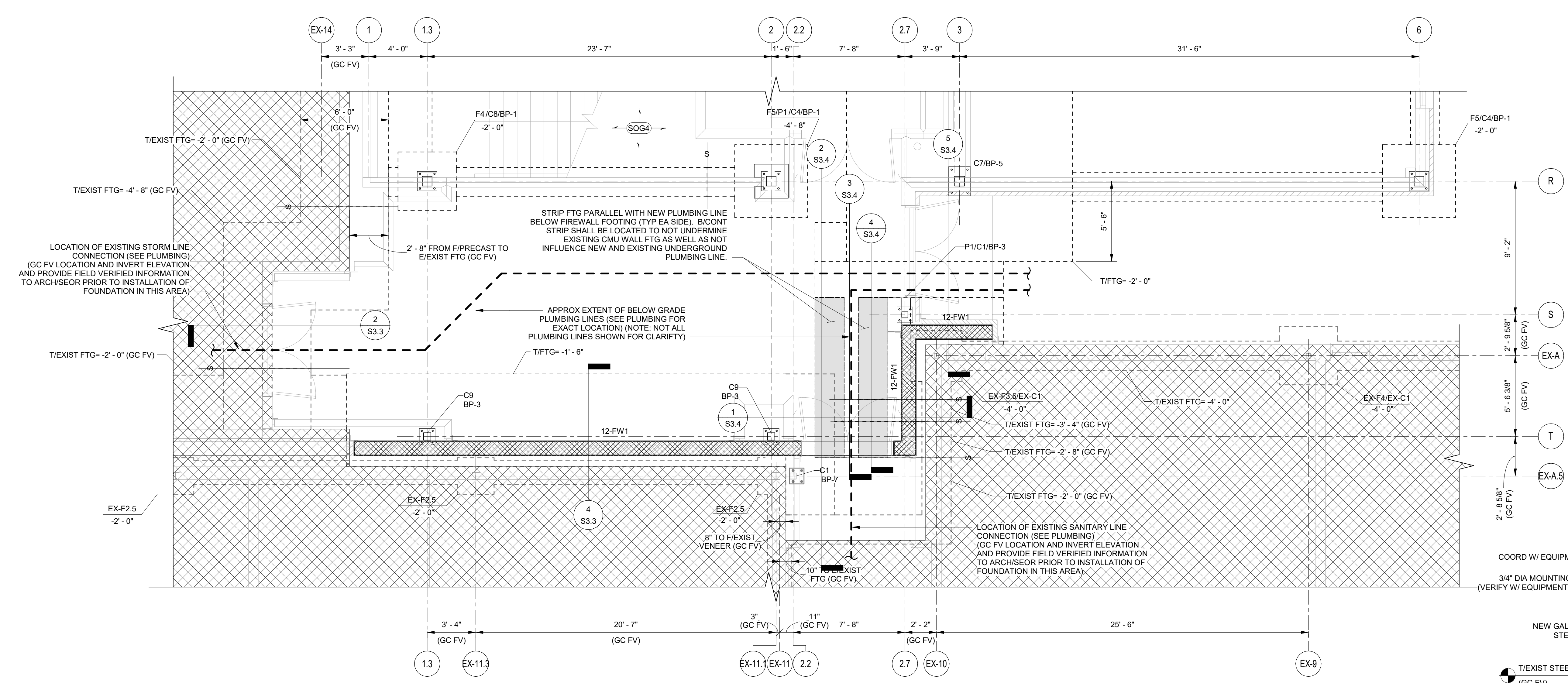
DATE	REVISIONS	NO.
11/1/2021	Blgd. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
12/8/2021	Blgd. Permit ReSubmittal	
1/28/22	CONFORMED SET	



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**EAST ADDITION**  
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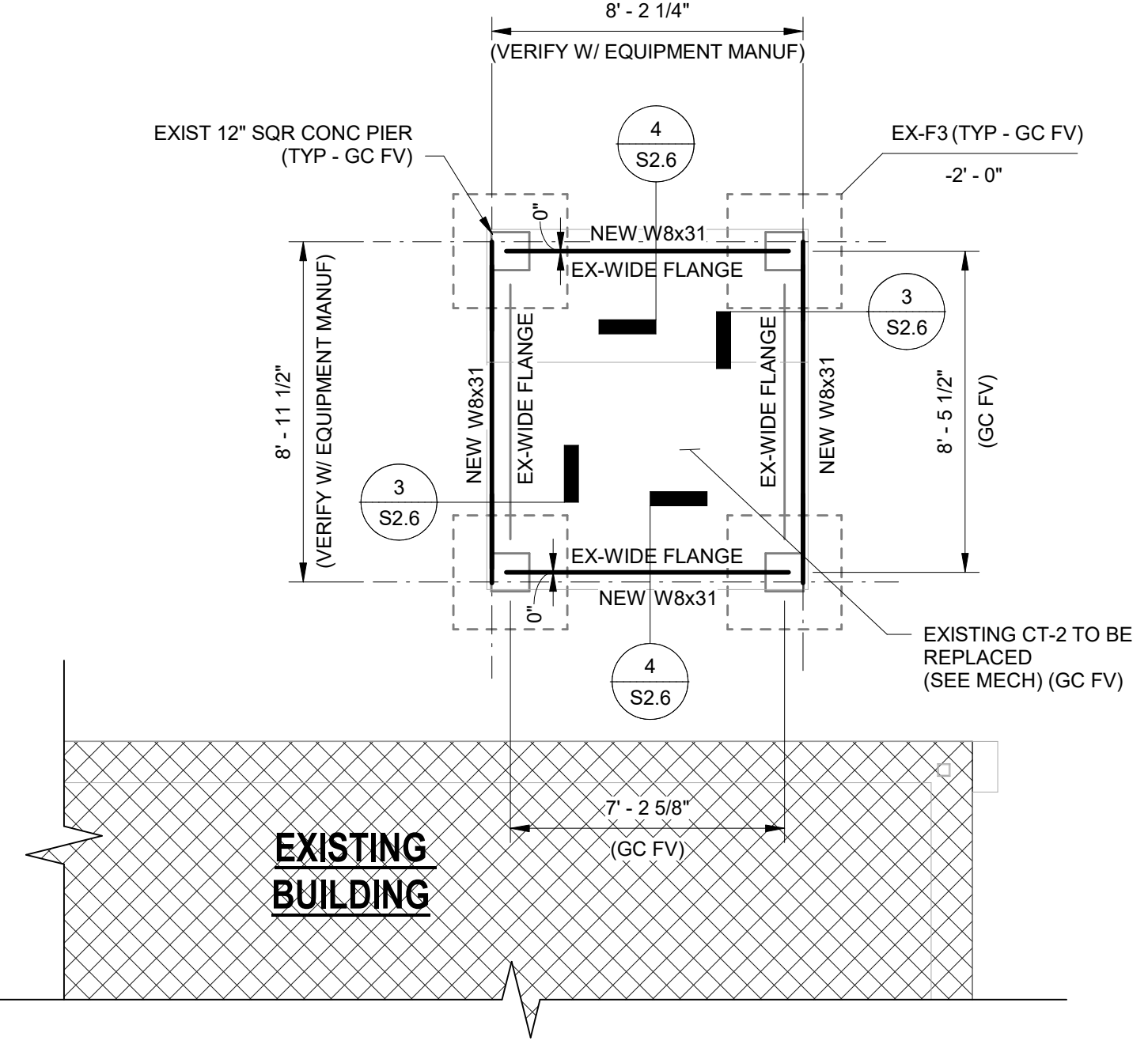


**PARTIAL MAIN LEVEL FOUNDATION PLAN**

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

FOUNDATION PLAN NOTES:

- 4" CONCRETE SLAB-ON-GROUND REINFORCED W/ WWR 6x6-W2.1xW2.1 @ 1-1/2" BELOW T/SLAB OVER 4" CRUSHED STONE BASE (SEE ARCH FOR MOISTURE BARRIER LOCATIONS).  
T/SLAB = SEE CIVIL REF T/SLAB = 0'-0"
- BASE PLATE MARK SEE S/S3.1  
COLUMN MARK (SEE SCHEDULE S3.1)  
CONCRETE PIER MARK (SEE SCHEDULE ON S3.1)  
FOUNDATION MARK (SEE SCHEDULE ON S3.1)
- SUBMIT PROPOSED SLAB-ON-GROUND CONSTRUCTION OR CONTRACTION JOINT LOCATIONS. FOR SCHEMATIC C/J PLAN SEE 1/S3.11
- FOR TRENCHES ADJACENT TO FOUNDATIONS SEE 1/S3.2 FOR PIPING PASSING UNDER WALL FOUNDATIONS SEE 2/S3.2 PIPING PASSING UNDER FOOTING SHALL BE PLACED AND INSPECTED BEFORE FOUNDATIONS ARE PREPARED.
- GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY GC SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- Ø DENOTES STEP IN FOUNDATION SEE 3/S3.2
- SEE ARCHITECTURAL DRAWINGS FOR:  
• ALL SLOPED SLAB AREAS (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).  
• ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).  
• ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- #-FW# DENOTES CMU FIREWALL (SEE SCHED ON 6/S4.1 FOR REINF SIZE & SPA). THE FIRST # DENOTES CMU THICKNESS. THE SECOND # DENOTES FIREWALL TYPE.
- \* DENOTES GC SHALL FIELD VERIFY EXISTING CONDNS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY AND COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR. FOR ALL FTGS ABUTTING EXIST FTG, BOTTOM OF NEW FOOTING SHALL EQUAL BOTTOM OF EXIST FTG. GC SHALL FIELD VERIFY ELEVATIONS SHOWN ON PLAN. NEW FTG TRANSVERSE BARS SHALL BE DRILLED & EPOXIED 12 BAR DIAMETERS INTO EXISTING FTG (TYP UNO).
- EX- DENOTES EXISTING STRUCTURE. GC SHALL FIELD VERIFY EXIST CONDITIONS MATCH WHAT IS SHOWN ON CONTRACT DOCUMENTS. NOTIFY & COORD ANY VARIATIONS FOUND IN FIELD W/ ARCH & EOR.



**EXISTING COOLING TOWER REPLACEMENT FOUNDATION PLAN**

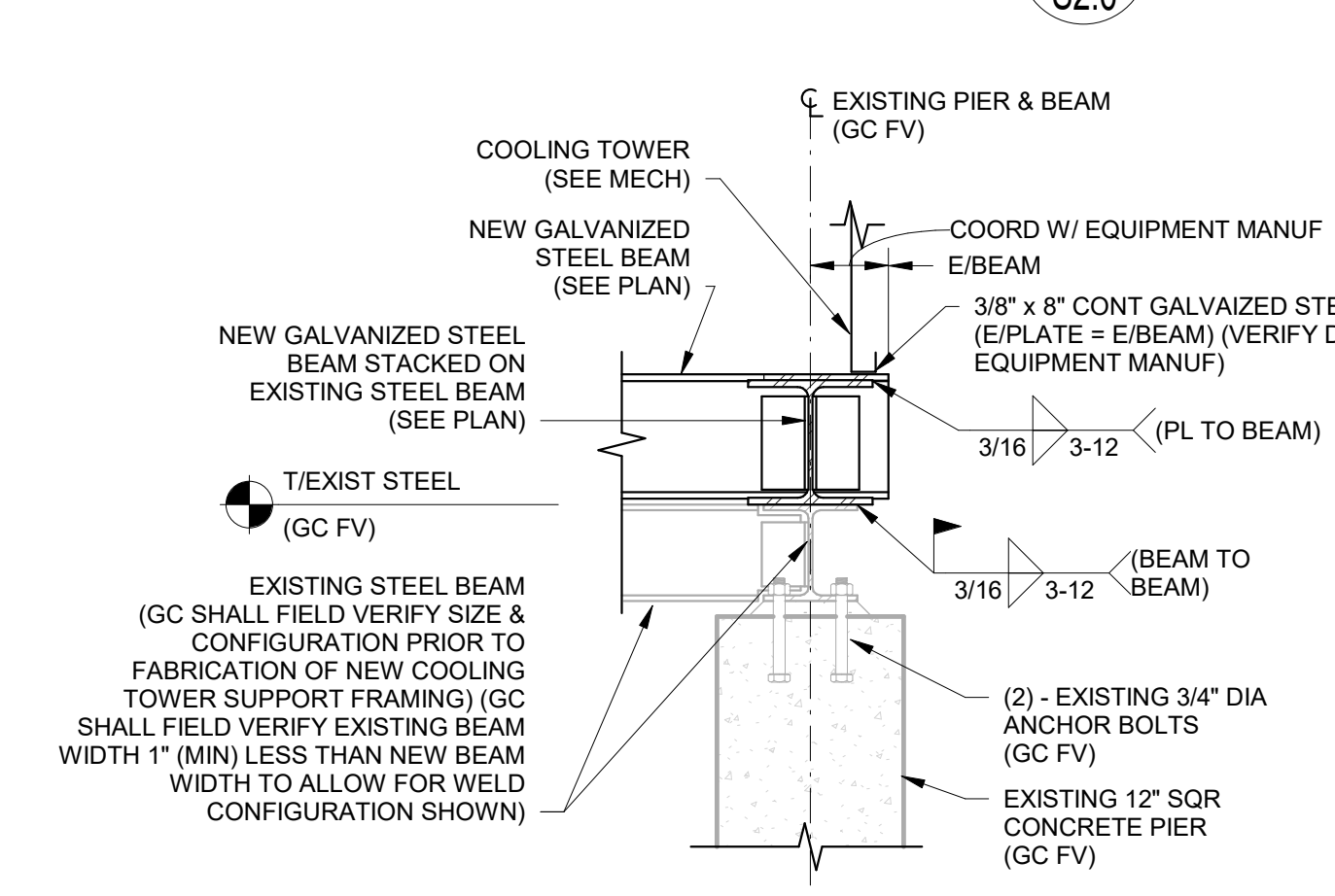
SCALE: 1/4" = 1'-0"

COOLING TOWER REPLACEMENT PLAN NOTES:

- PRIOR TO FABRICATION OF NEW COOLING TOWER SUPPORT FRAMING, GC SHALL FIELD VERIFY ALL EXISTING COOLING TOWER SUPPORT FRAMING, PIERS & FOUNDATION SIZES AND DIMENSIONS MATCH WHAT IS SHOWN ON STRUCTURAL DRAWINGS. GC SHALL REPORT ANY DISCREPANCIES FOUND IN FIELD TO ARCHITECT AND EOR.
- EX-WIDE FLANGE: DENOTES EXISTING GALVANIZED WIDE FLANGE STEEL BEAM. GC SHALL FIELD VERIFY EXISTING COOLING TOWER SUPPORT BEAM SIZE PRIOR TO FABRICATION OF NEW COOLING TOWER SUPPORT FRAMING.
- CONDITION OF EXISTING COOLING TOWER CONC PIERS, FOUNDATIONS AND STEEL BEAMS SHALL BE INSPECTED PRIOR TO INSTALLATION OF NEW STEEL FRAMING. FINDINGS SHALL BE REPORTED TO THE ARCHITECT AND EOR. IF DAMAGE BEYOND REPAIR IS OBSERVED TO EXISTING COOLING TOWER SUPPORT FRAME, A NEW SUPPORT FRAME SHALL BE INSTALLED IN ITS PLACE.

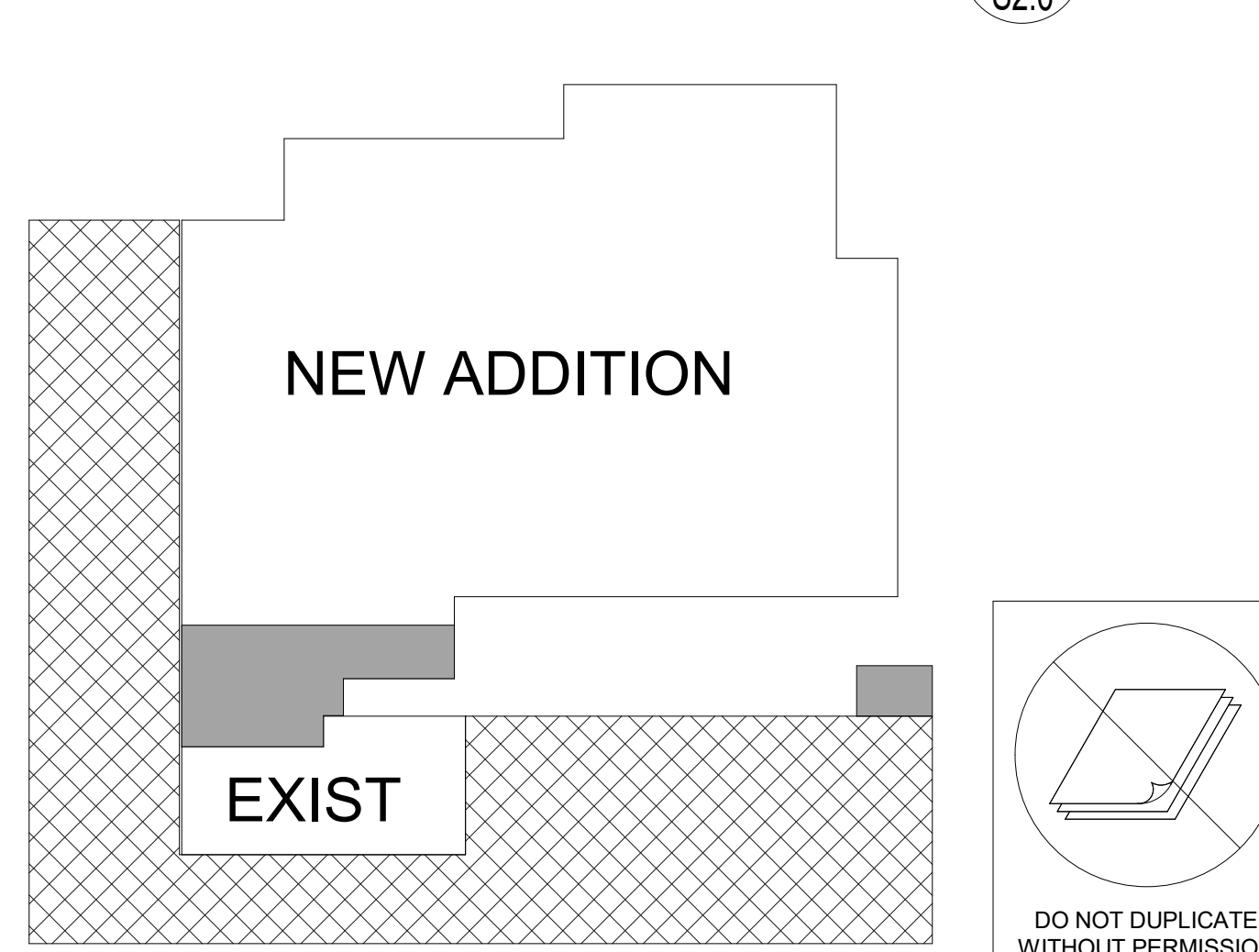
**SECTION 3**

SCALE: 1" = 1'-0"



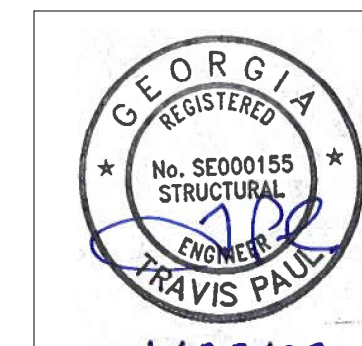
**SECTION 4**

SCALE: 1" = 1'-0"



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 PHONE 770-457-5923 FAX 770-457-5999 WEB www.pesengineers.com  
 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022



1/28/22

S2.6

DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
1/28/22	CONFORMED SET	

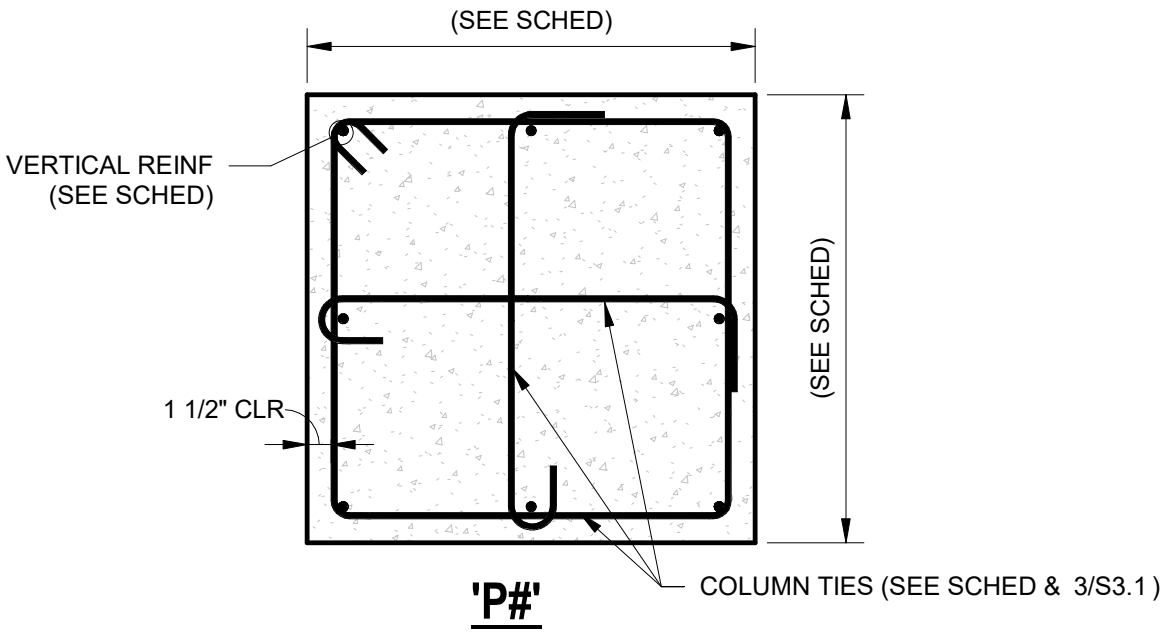
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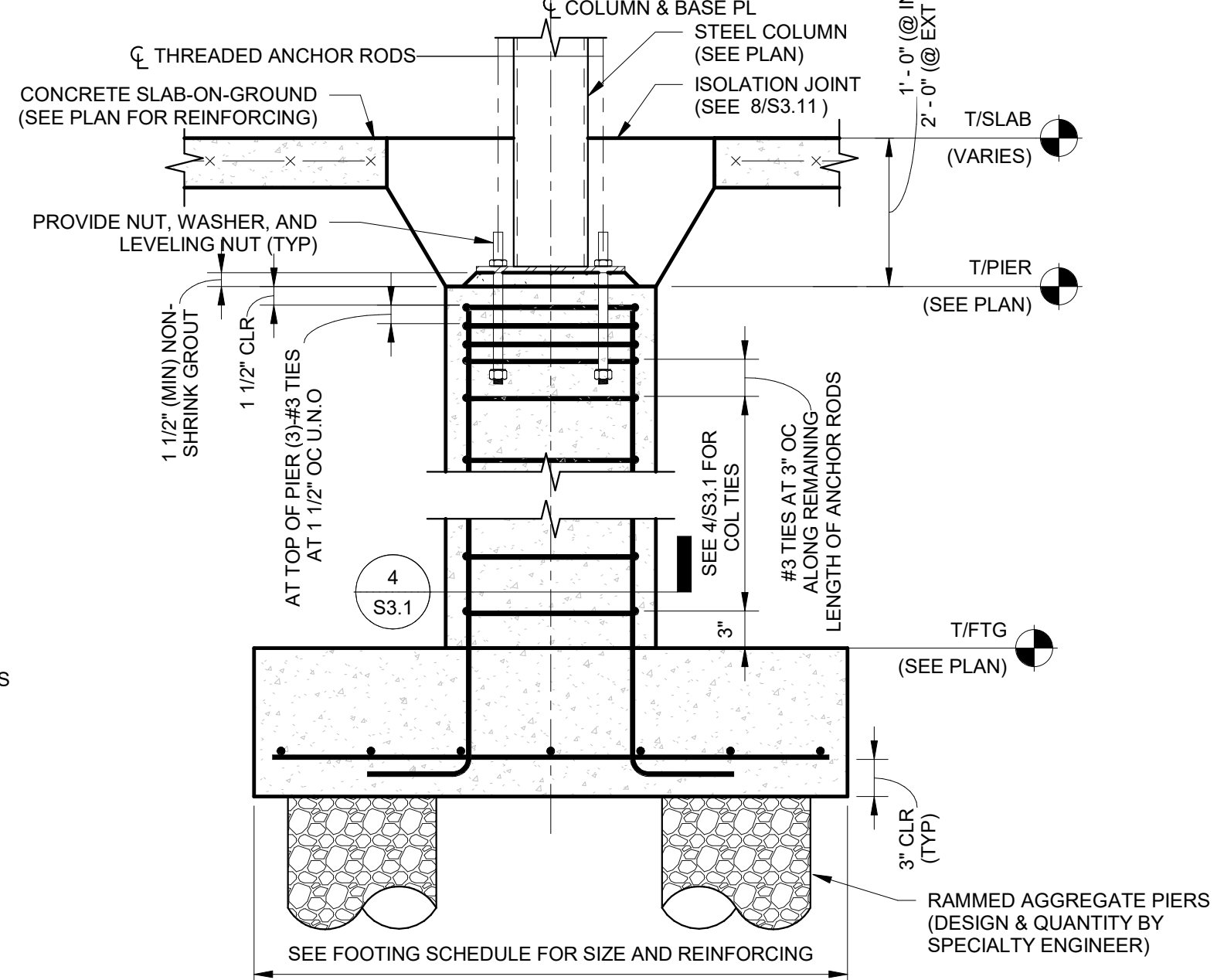
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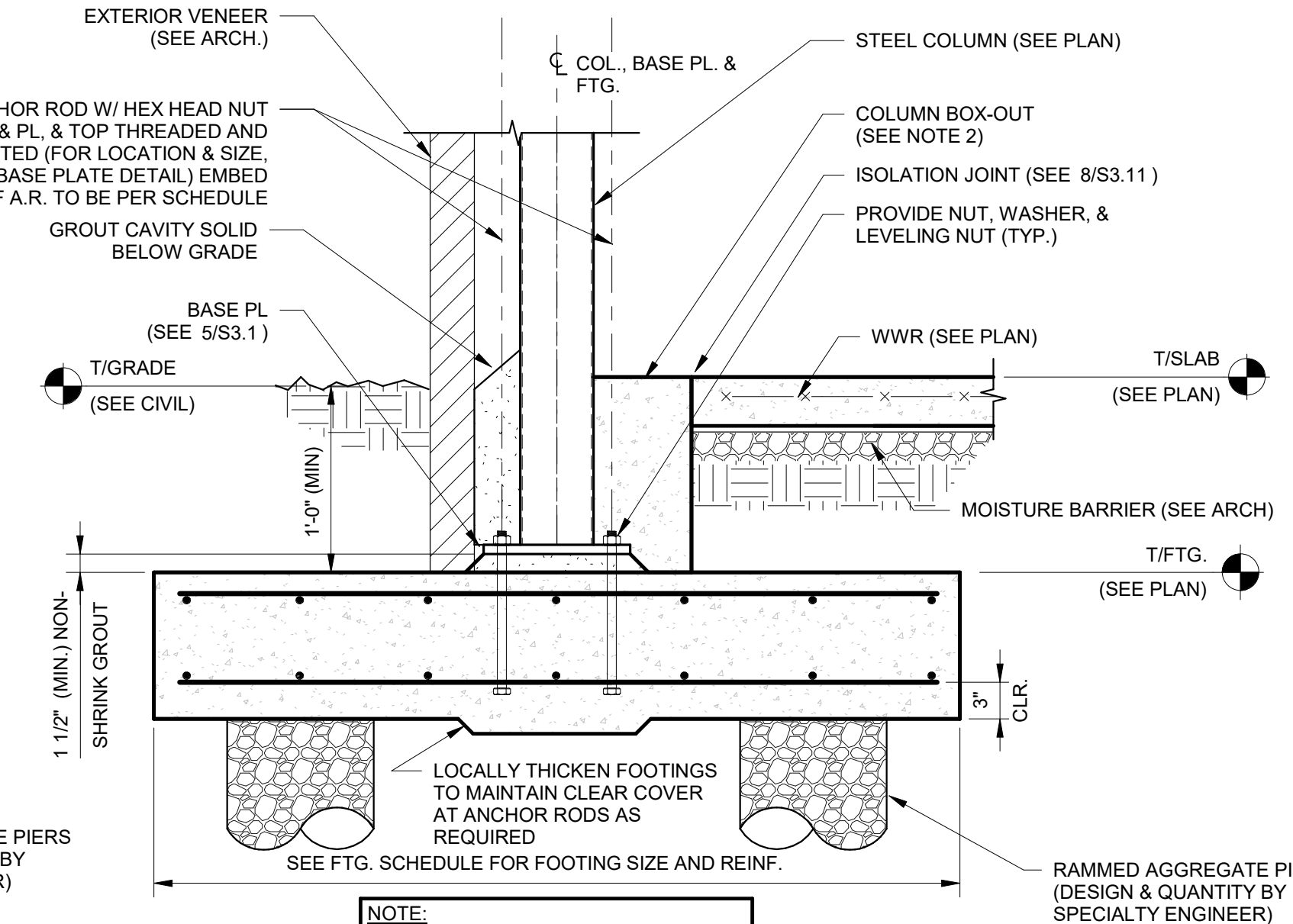
CONCRETE PIER SCHEDULE			
MARK	SIZE	VERTICAL REINFORCING	COLUMN TIES
P1	28" x 28"	(8) - #7	#3 @ 9" OC



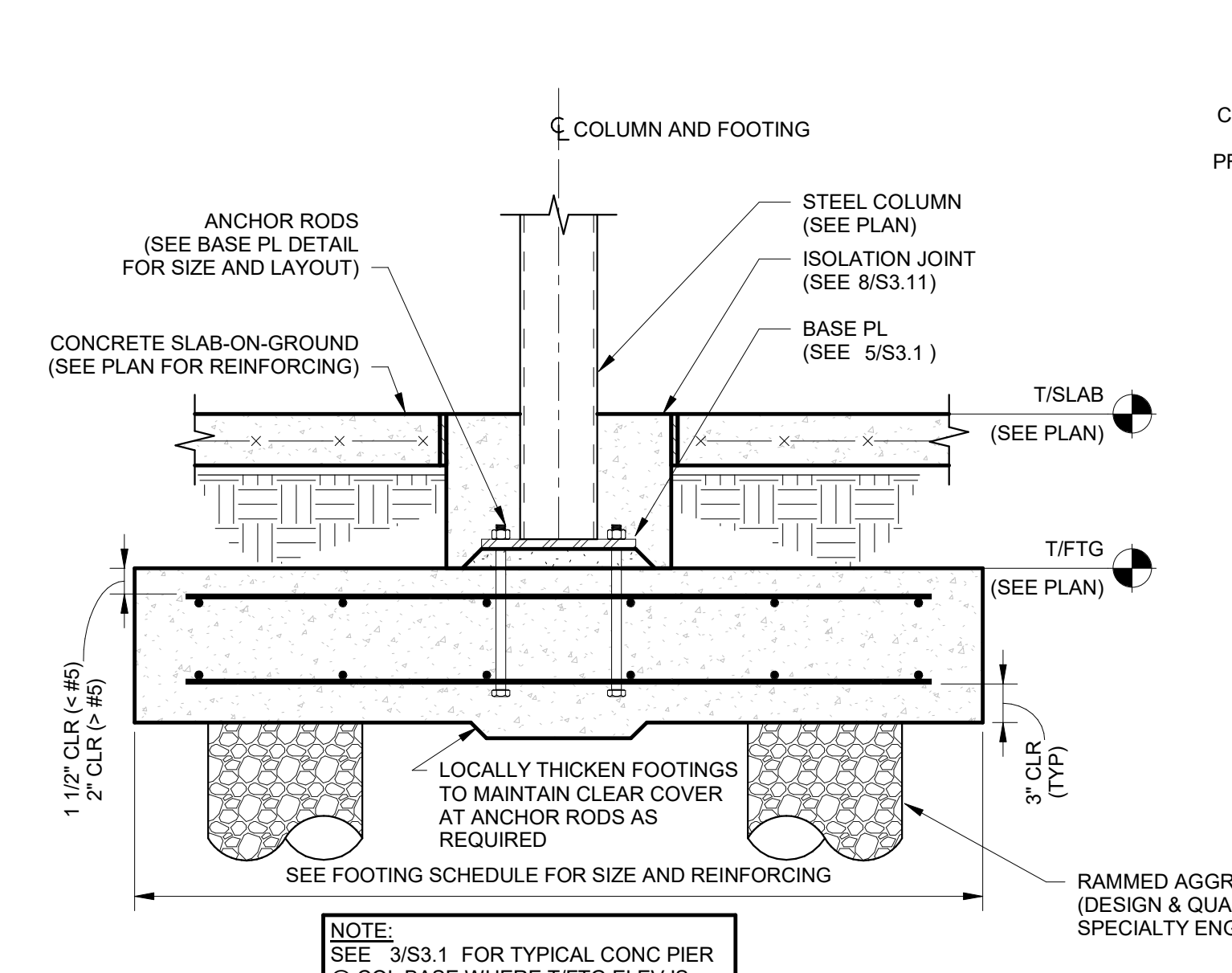
**TYPICAL CONCRETE PIER REINFORCING - DETAIL**  
 SCALE: 1" = 1'-0"  
 S3.1



**TYPICAL INTERIOR COLUMN FOOTING WITH CONCRETE PIER - SECTION**  
 SCALE: 1" = 1'-0"  
 S3.1



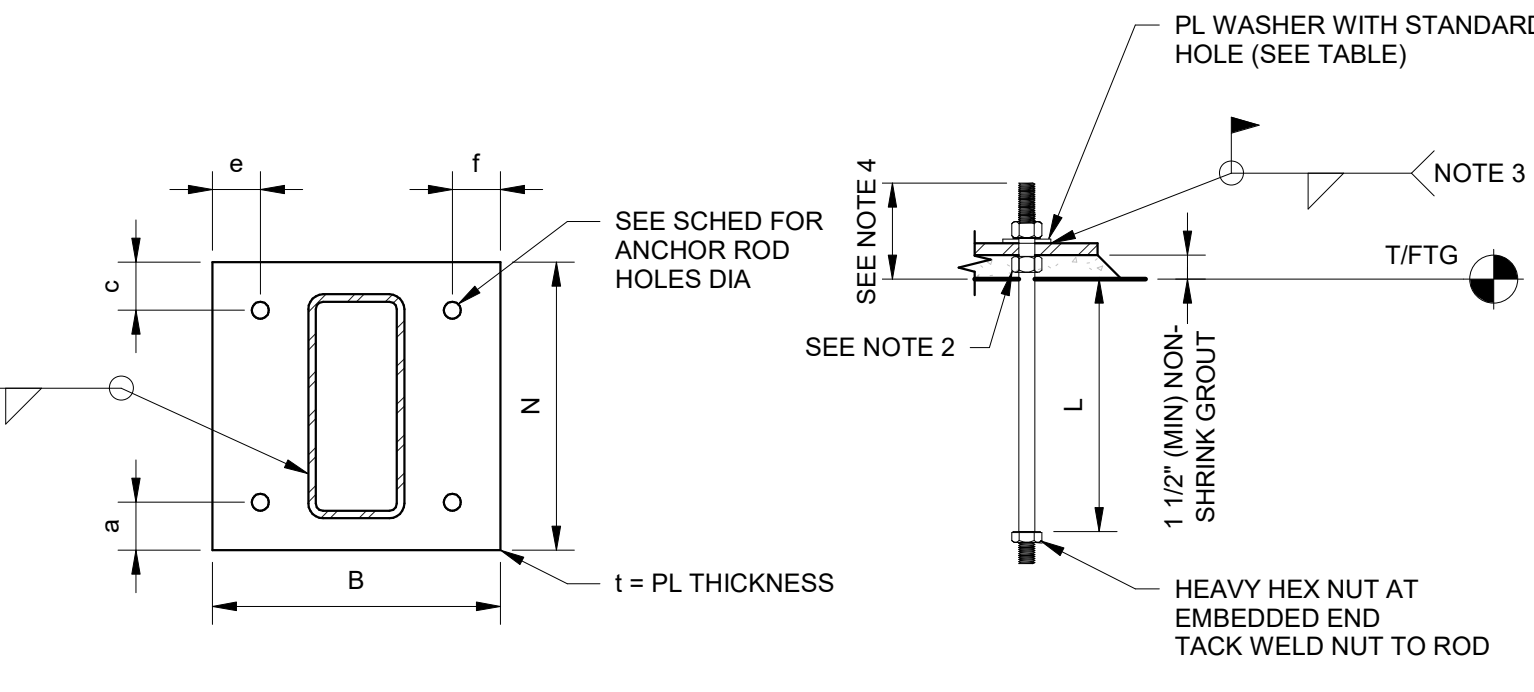
**TYPICAL EXTERIOR COLUMN FOOTING**  
 SCALE: 1" = 1'-0"  
 S3.1



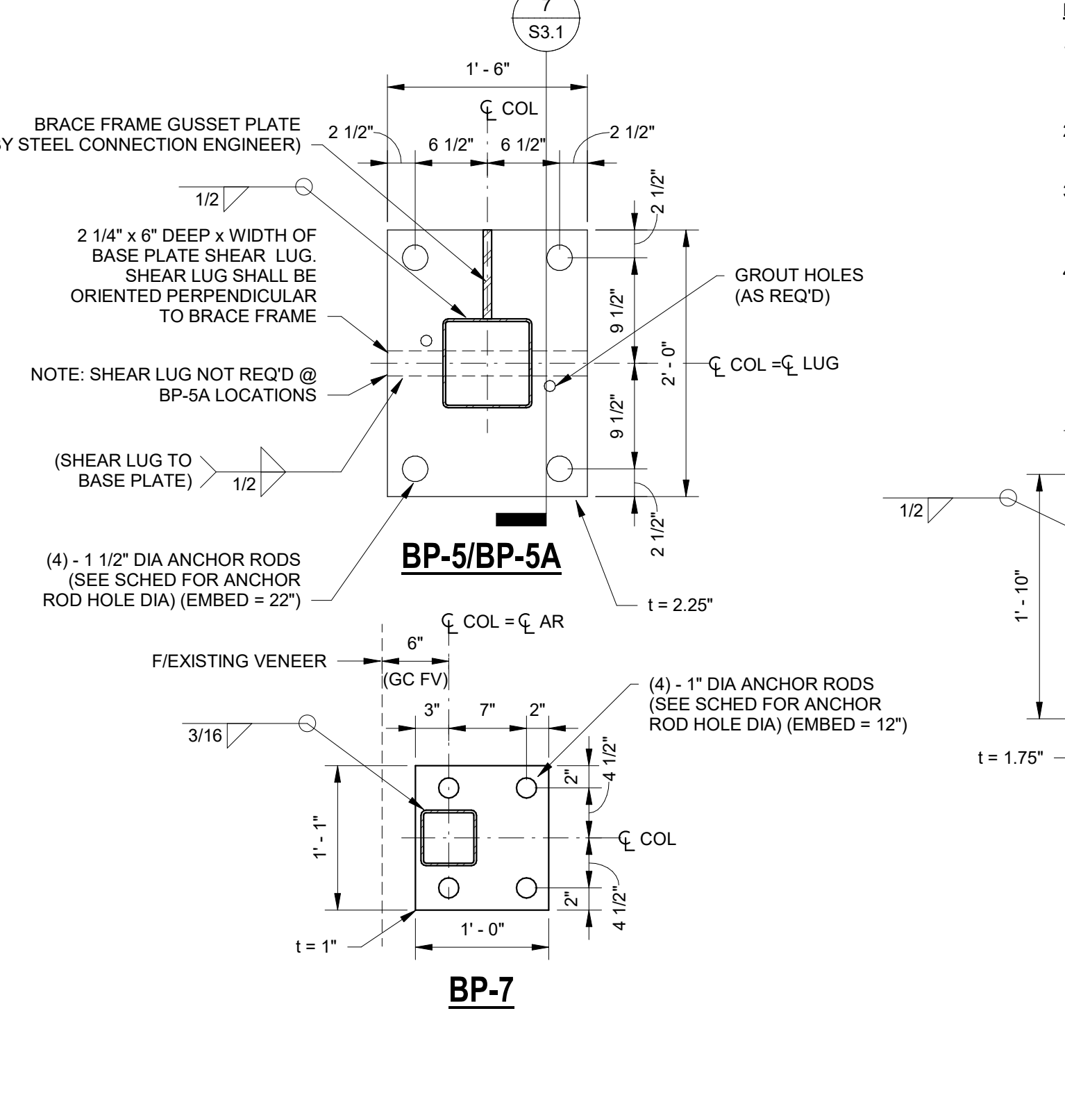
**TYPICAL INTERIOR COLUMN FOOTING - SECTION**  
 SCALE: 1" = 1'-0"  
 S3.1

BASE PLATE SCHEDULE										
TYPE MARK	N	B	a	c	e	f	t	ROD DIAMETER	L	P
BP-1	1'-4"	1'-4"	2"	2"	2"	2"	1"	3/4"	1'-0"	7"
BP-2	1'-4"	1'-4"	2"	2"	2"	2"	1 1/2"	3/4"	1'-0"	7"
BP-3	1'-1"	1'-1"	2"	2"	2"	2"	1"	3/4"	1'-0"	7"
BP-4	1'-6"	1'-6"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	1 1/2"	1 1/4"	1'-3"	7"
BP-5	1'-6"	2'-0"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	1 1/2"	1 1/4"	1'-10"	9"
BP-5A	1'-6"	2'-0"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	1 1/2"	1 1/4"	1'-10"	9"
BP-6	1'-10"	1'-10"	3"	3"	3"	3"	1 3/4"	1 1/2"	1'-10"	9"
BP-7	1'-0"	1'-1"	2"	2"	2"	3"	1"	3/4"	1'-0"	7"

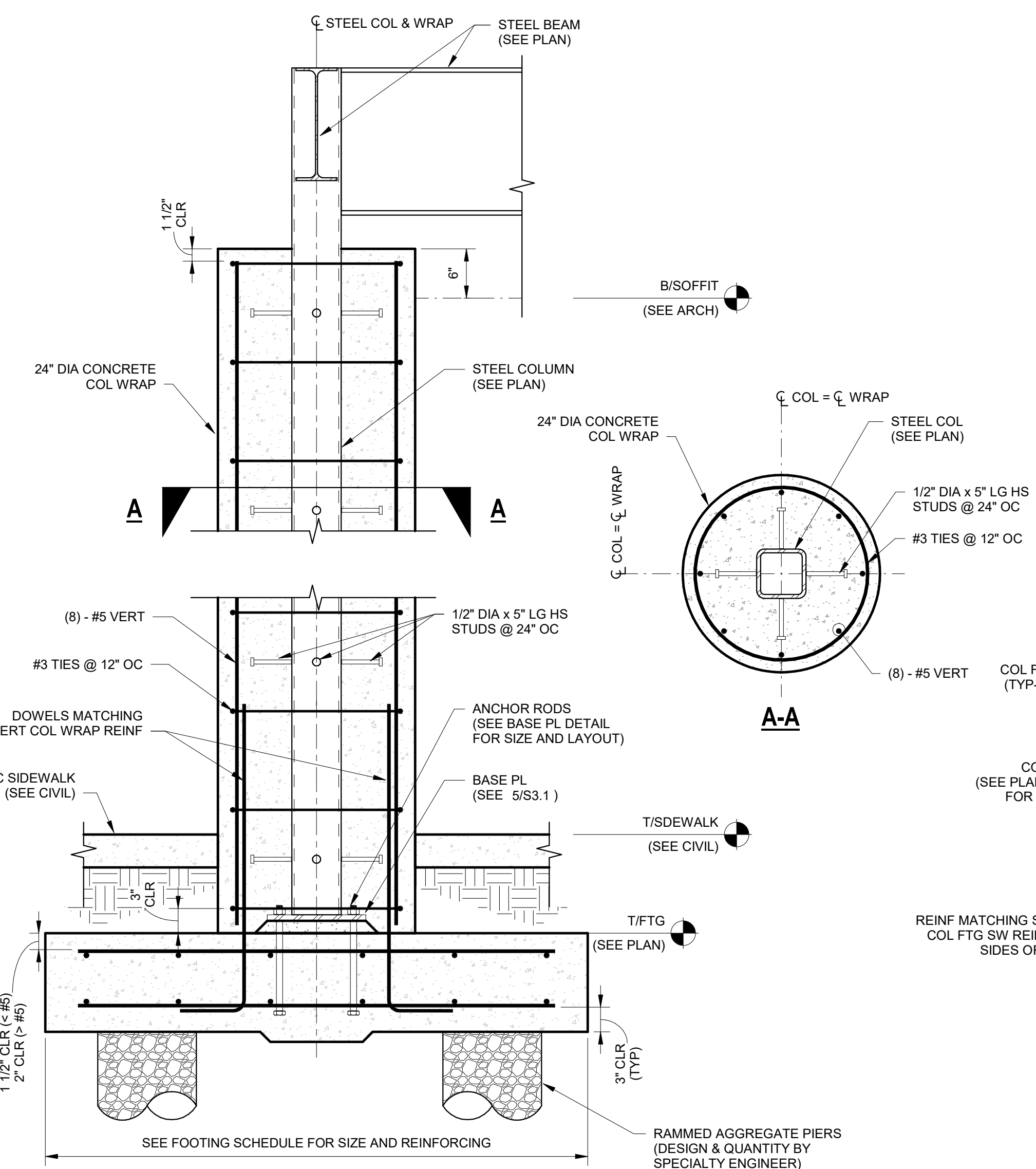
BASE PLATE HOLE DIAMETER AND PLATE WASHER SIZE			
ANCHOR RODS DIA	BASE PL HOLE DIA	MIN WASHER DIMENSION	MIN WASHER THICKNESS
3/4"	1 5/16"	2"	1/4"
7/8"	1 9/16"	2 1/2"	5/16"
1"	1 13/16"	3"	3/8"
1 1/4"	2 1/16"	3"	1/2"
1 1/2"	2 5/16"	3 1/2"	1/2"
1 3/4"	2 3/4"	4"	5/8"
2"	3 1/4"	5"	3/4"
2 1/2"	3 3/4"	5 1/2"	7/8"



- NOTES:**
- \* WELD SIZE SHALL BE: 3/16" FOR COLUMN WALL OR WEB THICKNESS < 1/2", 1/4" FOR COLUMN WALL OR WEB THICKNESS BETWEEN 1/2" AND 3/4", 5/16" FOR COLUMN WALL OR WEB THICKNESS > 3/4". WELD SIZE = 1/4" FOR BP-4 BASE PLATES.
  - PROVIDE LEVELING NUTS AND WASHERS, SHIM STACKS, OR LEVELING PLATE TO TEMPORARILY SUPPORT COLUMN DURING LEVELING AND GROUTING.
  - WELD REQUIRED ONLY AT BRACED FRAME AND MOMENT FRAME COLUMNS. AS AN ALTERNATIVE TO WELDING, FILL ALL VOIDS BETWEEN ANCHOR ROD AND BASE PLATE HOLES WITH GROUT OR EPOXY PRIOR TO INSTALLING WASHER AND NUT.
  - PROVIDE ADEQUATE PROJECTION FOR INSTALLATION OF NUT ABOVE BASE PLATE, 6" MINIMUM.



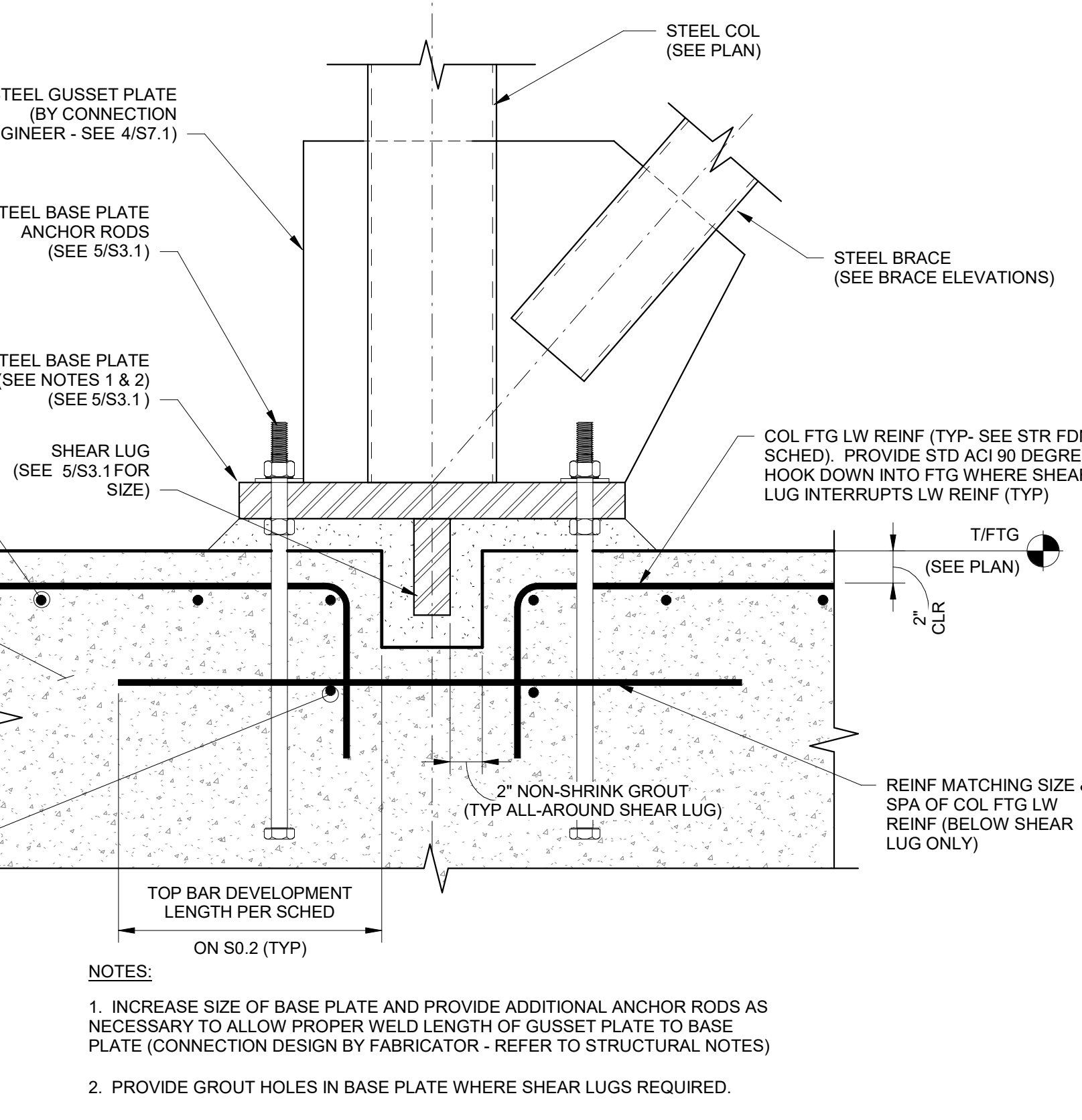
**BASE PLATE DETAILS**  
 SCALE: 1" = 1'-0"  
 S3.1



**TYPICAL CONC COL WRAP**  
 SCALE: 1" = 1'-0"  
 S3.1

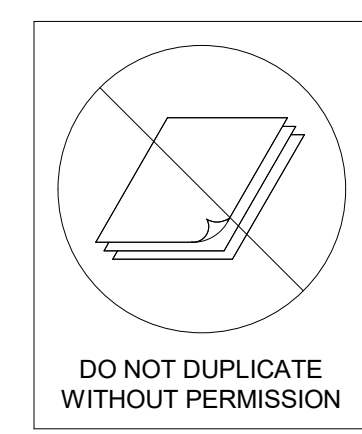
COLUMN SCHEDULE	
MARK	SIZE
C1	HSS2X6X1/4
C2	HSS6X6X1/4
C3	HSS6X6X5/16
C4	HSS8X8X1/4
C5	HSS8X8X5/16
C6	HSS8X8X3/8
C7	HSS8X8X1/2
C8	HSS8X8X5/8
C9	HSS8X8X3/4
C10	HSS10X8X5/8

FOUNDATION SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F4	4'-0"	4'-0"	1'-3"	(5) - #5 EW	-
F5	5'-0"	5'-0"	1'-3"	(6) - #5 EW	-
F6	6'-0"	6'-0"	1'-6"	(7) - #6 EW	-
F7	7'-0"	7'-0"	1'-6"	(8) - #6 EW	-
F7A	7'-0"	7'-0"	1'-6"	(8) - #6 EW	(8) - #6 EW
F7x6	7'-0"	6'-0"	1'-4"	(8) - #6 SW, (7) - #6 LW	(8) - #6 SW, (7) - #6 LW
F8	8'-0"	8'-0"	1'-9"	(9) - #6 EW	-
F8A	8'-0"	8'-0"	1'-9"	(9) - #6 EW	(9) - #6 EW
F8x5	8'-0"	6'-6"	1'-4"	(9) - #6 SW, (7) - #6 LW	(8) - #6 SW, (7) - #6 LW
F8x5A	25'-0"	8'-0"	2'-6"	(9) - #6 LW, (26) - #7 SW	(9) - #6 LW, (26) - #7 SW
F9A	9'-0"	9'-0"	1'-9"	(10) - #7 EW	(10) - #7 EW
F10A	10'-0"	10'-0"	2'-3"	(11) - #7 EW	(11) - #7 EW
F11A	11'-0"	11'-0"	2'-3"	(12) - #7 EW	(12) - #7 EW
F11x10	11'-0"	10'-0"	1'-4"	(12) - #7 SW, (11) - #7 LW	(12) - #7 SW, (11) - #7 LW
F13A	13'-0"	13'-0"	2'-0"	(14) - #7 EW	(14) - #7 EW
F13x9	13'-0"	9'-0"	2'-0"	(14) - #7 SW, (10) - #7 LW	(14) - #7 SW, (10) - #7 LW
F14A	14'-0"	14'-0"	2'-3"	(15) - #7 EW	(15) - #7 EW
F14x29.5	14'-0"	29'-6"	2'-6"	(15) - #8 LW, (31) - #7 SW	(15) - #8 LW, (31) - #7 SW
F14x43	43'-0"	14'-0"	2'-6"	(15) - #8 LW, (44) - #7 SW	(15) - #8 LW, (44) - #7 SW
F15.5x33	33'-0"	15'-6"	2'-9"	(17) - #8 LW, (34) - #7 SW	(17) - #8 LW, (34) - #7 SW
F34.5x18	34'-6"	18'-0"	2'-9"	(19) - #8 LW, (36) - #7 SW	(19) - #8 LW, (36) - #7 SW

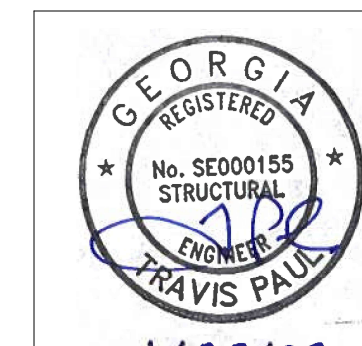


**BASE PLATE SHEAR LUG - SECTION**  
 SCALE: 1 1/2" = 1'-0"  
 S3.1

- NOTES:**
- INCREASE SIZE OF BASE PLATE AND PROVIDE ADDITIONAL ANCHOR RODS AS NECESSARY TO ALLOW PROPER WELD LENGTH OF GUSSET PLATE TO BASE PLATE (CONNECTION DESIGN BY FABRICATOR - REFER TO STRUCTURAL NOTES)
  - PROVIDE GROUT HOLES IN BASE PLATE WHERE SHEAR LUGS REQUIRED.



**PES STRUCTURAL ENGINEERS**  
 ADDRESS: 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
 PHONE: 770-457-5923 FAX: 770-457-9999 WEB: www.pesengineers.com  
 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022



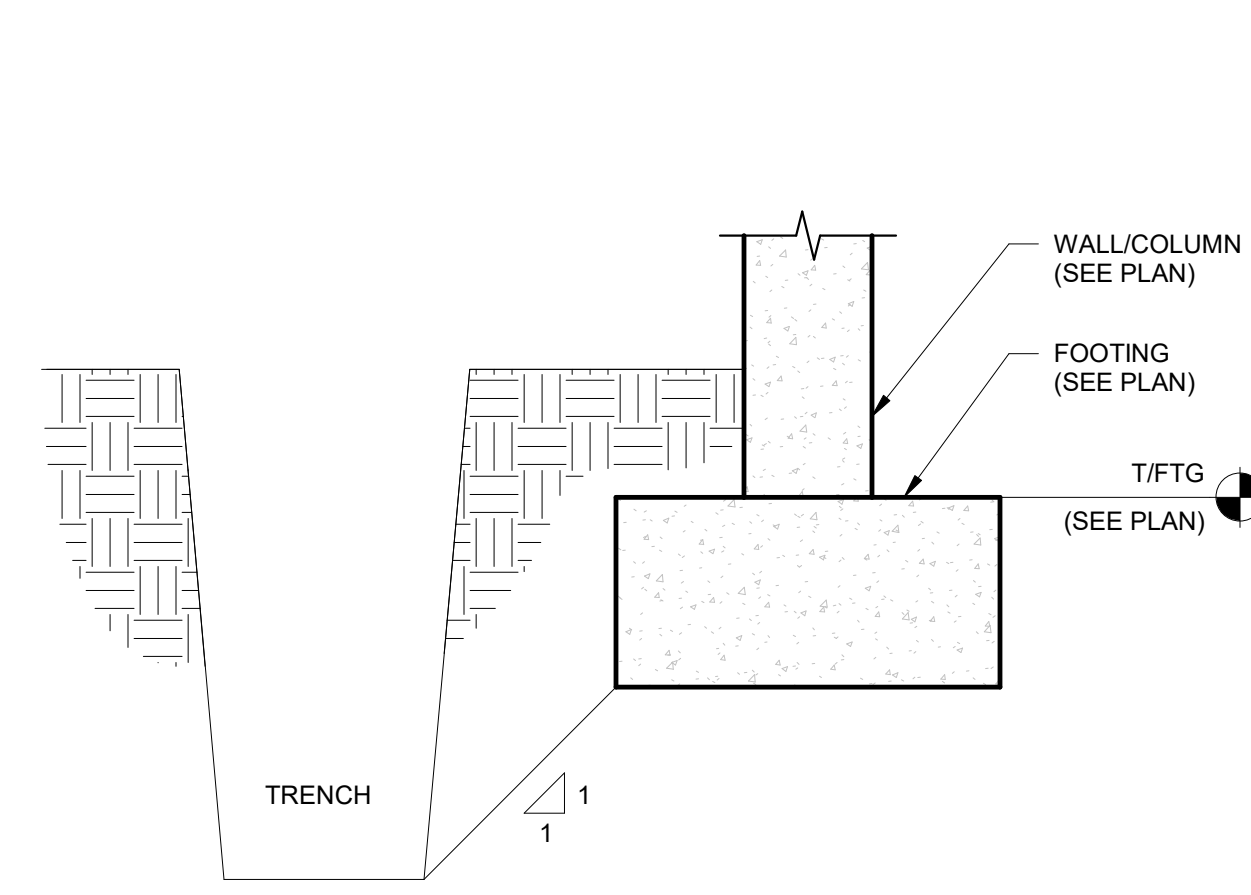
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DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
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11/1/2021	DOE Final	
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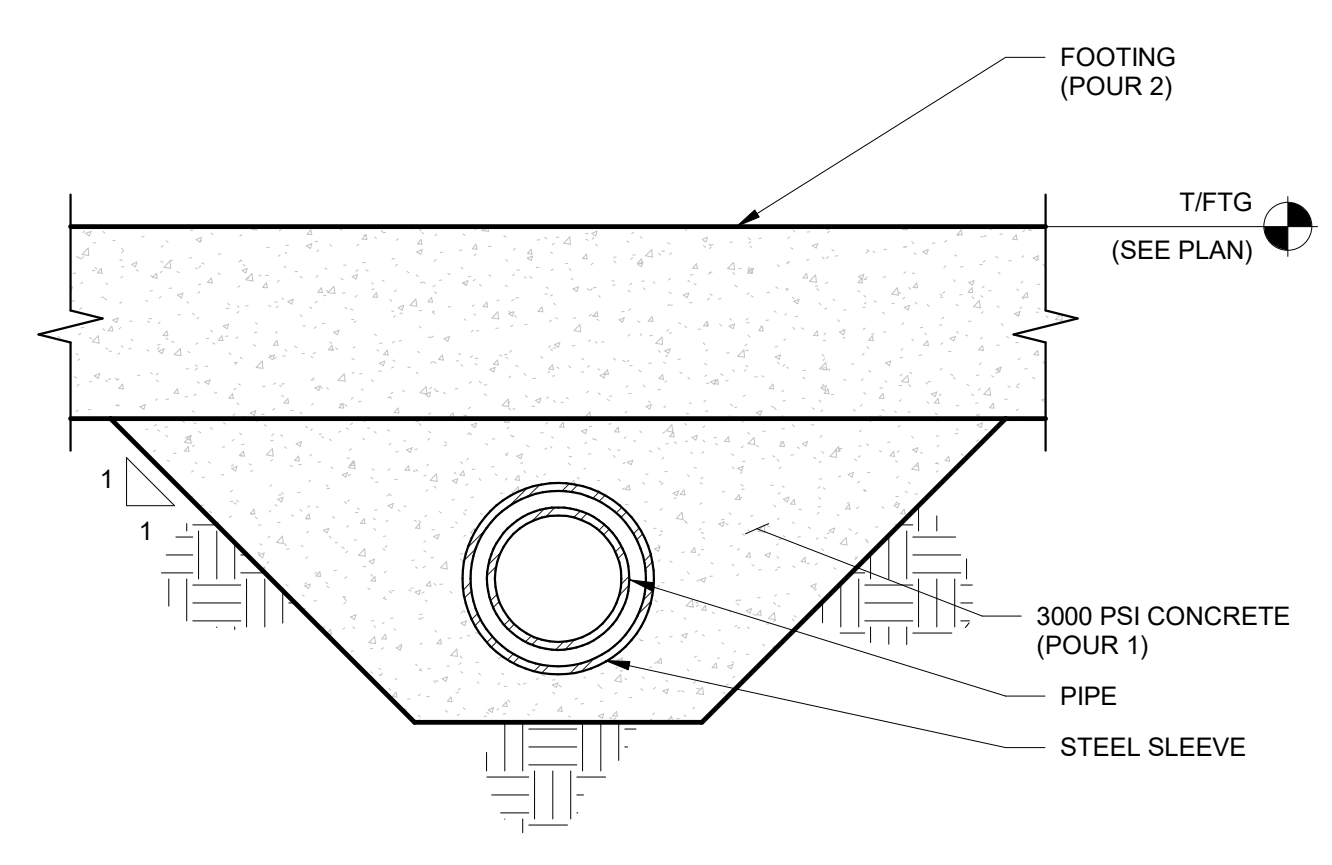
FACILITY CODE 667-4556  
 DATE Issue Date  
 SHL-001-21  
 RAS  
 ABS

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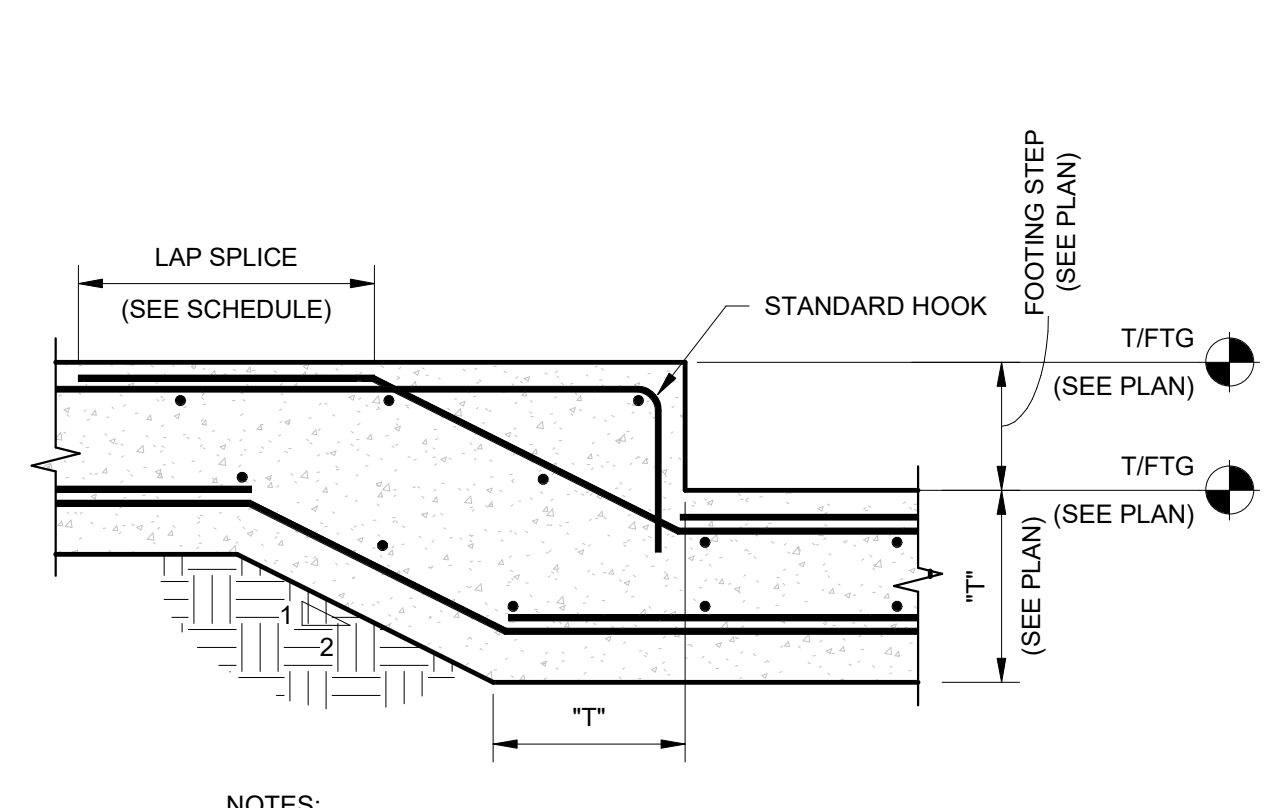
**TYPICAL FOOTING ADJACENT TO TRENCH - SECTION**  
SCALE: 1" = 1'-0"

1  
S3.2



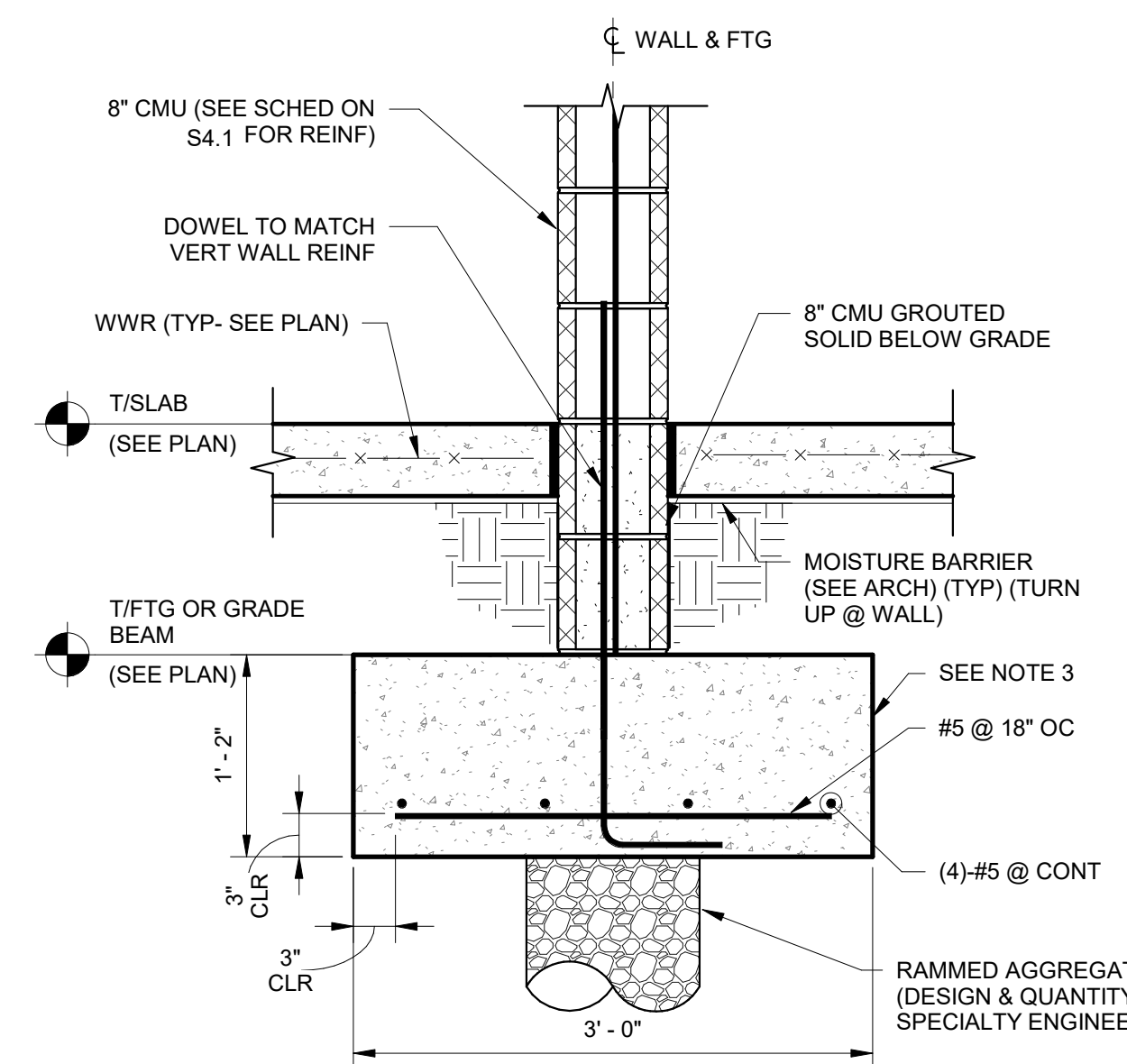
**TYPICAL PIPE UNDER FOOTING - SECTION**  
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2  
S3.2



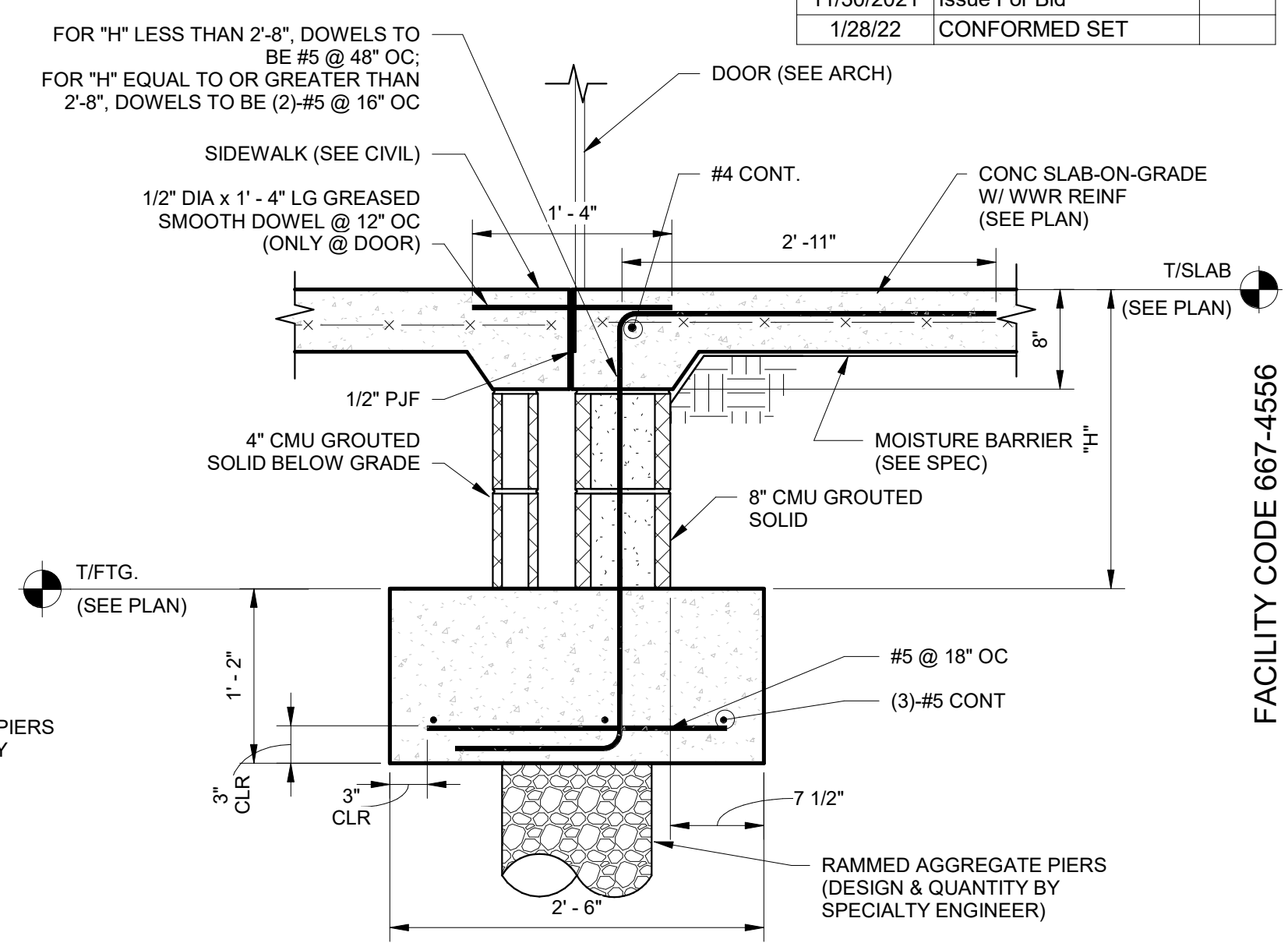
**TYPICAL FOOTING STEP - SECTION**  
SCALE: 1" = 1'-0"

3  
S3.2



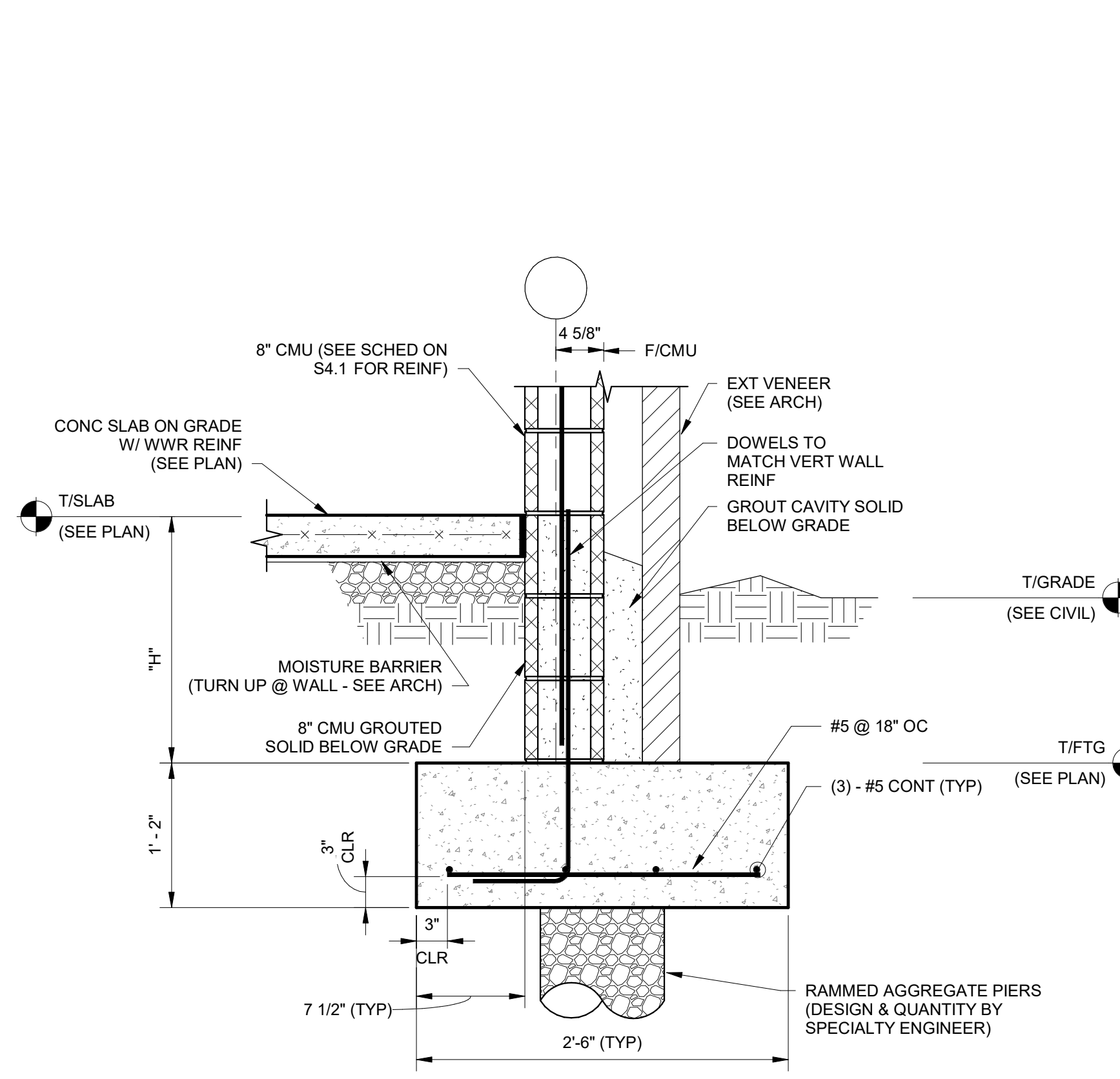
**SECTION**  
SCALE: 1" = 1'-0"

4  
S3.2



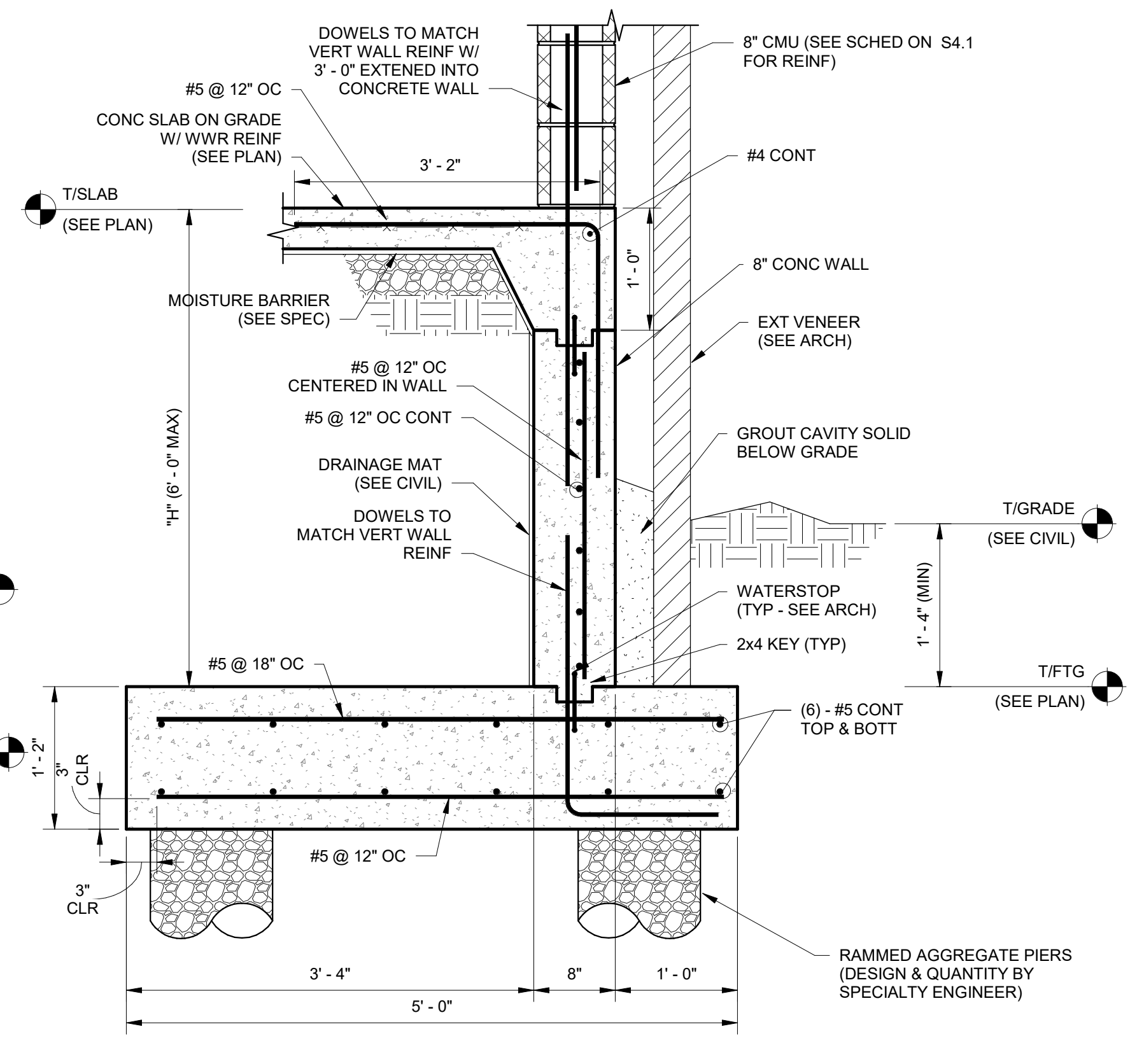
**SECTION**  
SCALE: 1" = 1'-0"

5  
S3.2



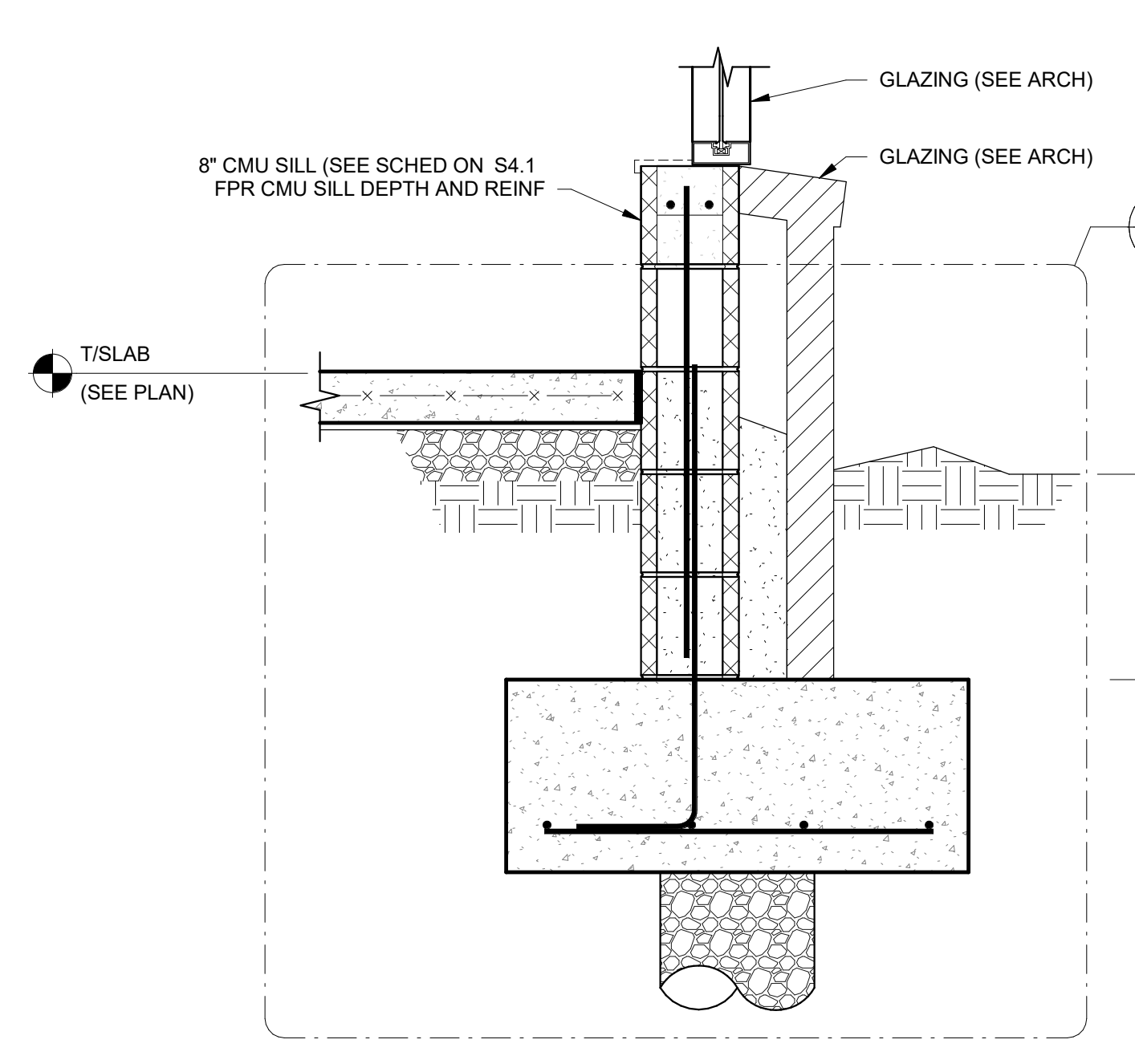
**TYP EXT 8" CMU WALL FDN FOR "H" <= 3' - 4"**  
SCALE: 1" = 1'-0"

6  
S3.2



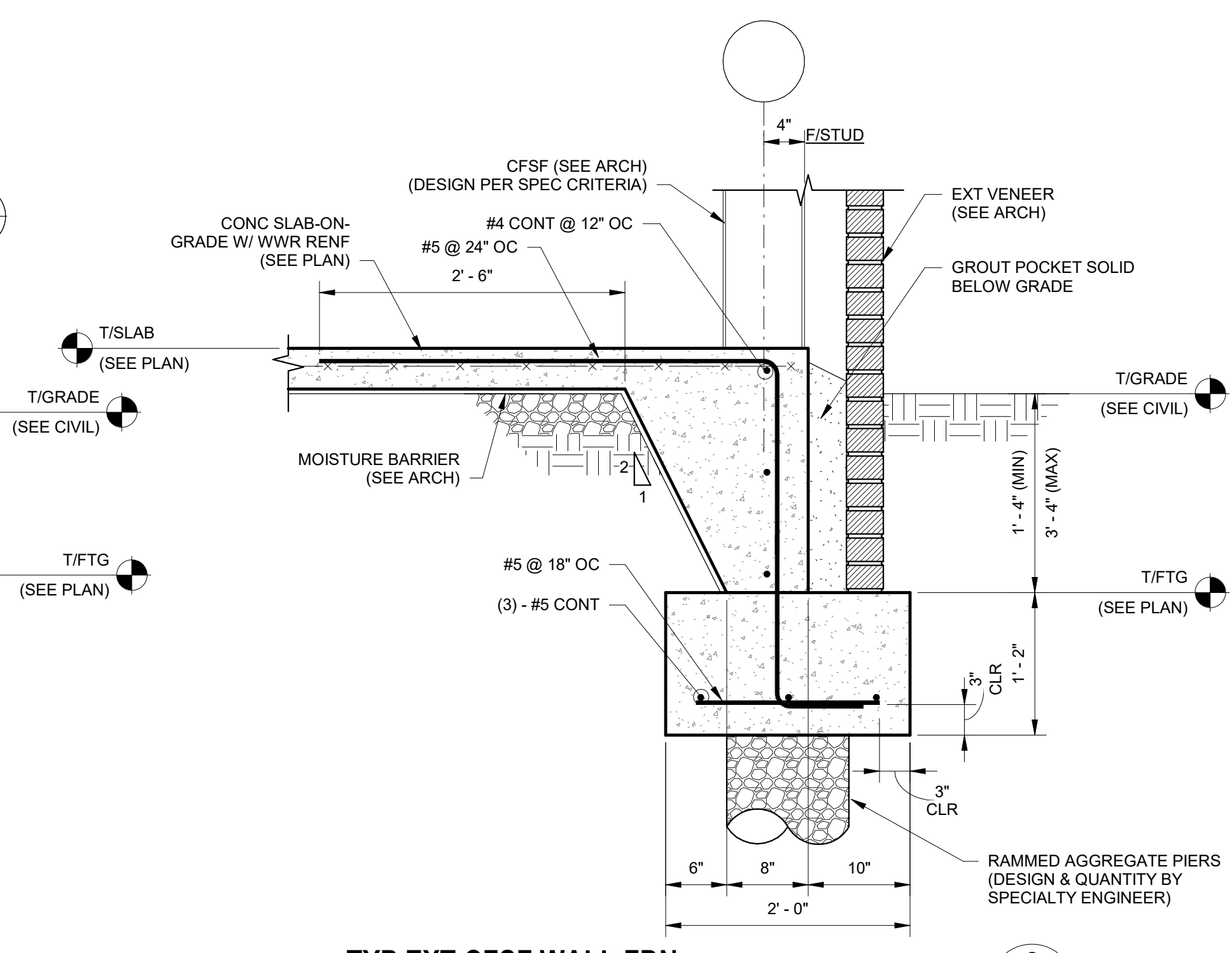
**TYP EXT 8" CMU WALL FDN FOR "H" > 3' - 4"**  
SCALE: 1" = 1'-0"

7  
S3.2



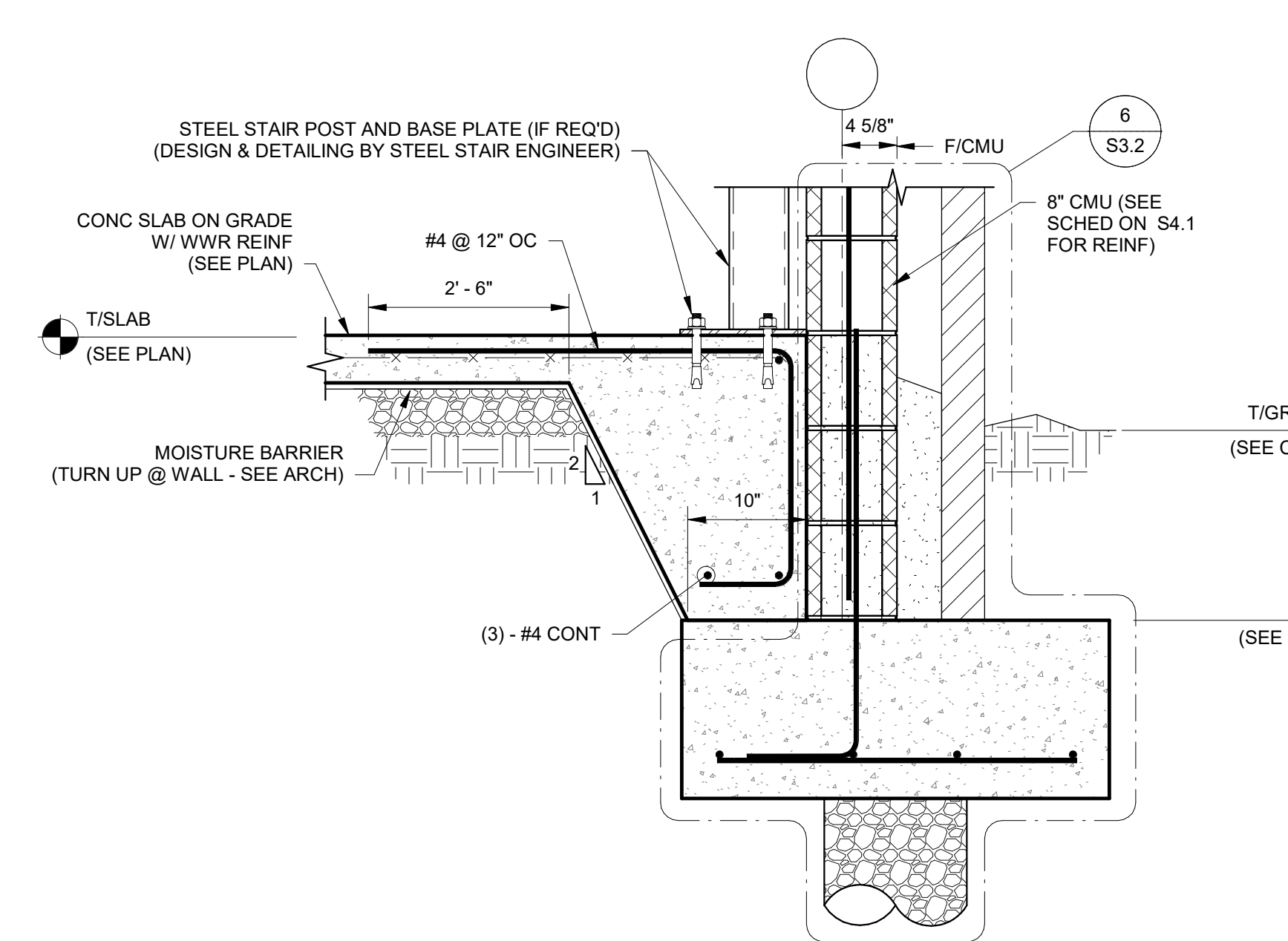
**TYP EXT 8" CMU WALL FDN @ WINDOW LOCATIONS**  
SCALE: 1" = 1'-0"

8  
S3.2



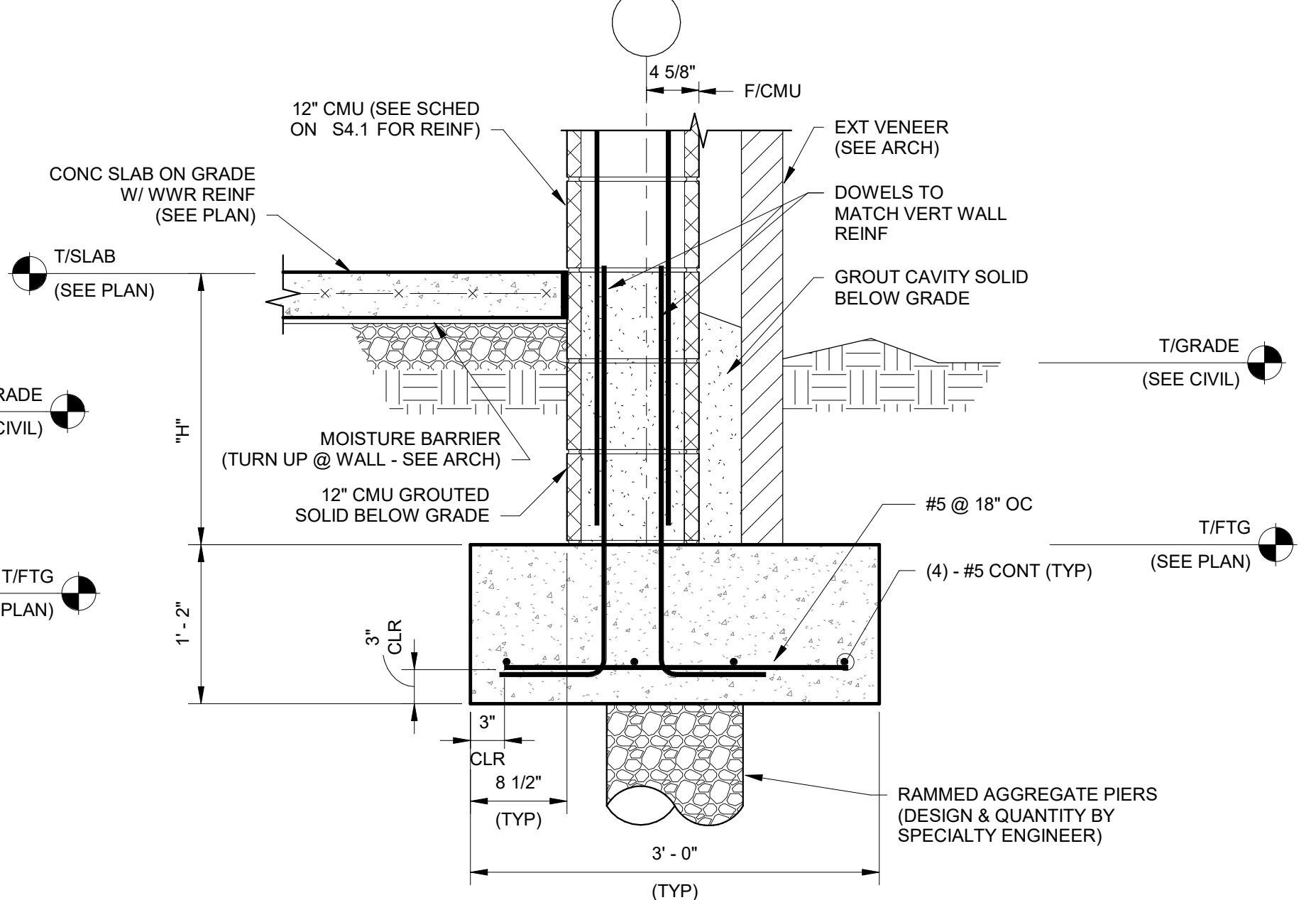
**TYP EXT CFSF WALL FDN**  
SCALE: 1" = 1'-0"

9  
S3.2



**SECTION**  
SCALE: 1" = 1'-0"

10  
S3.2

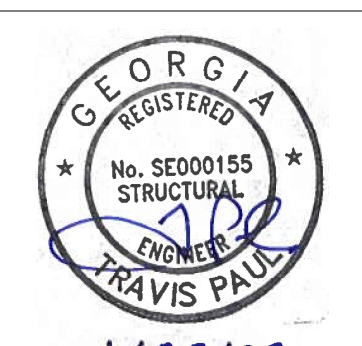
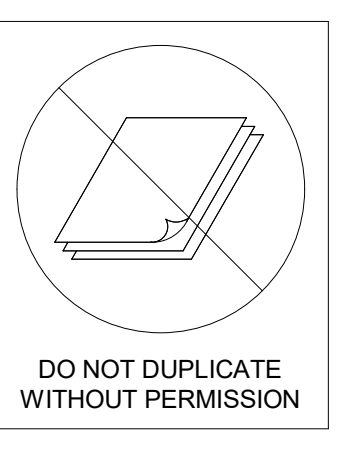


**TYP EXT 12" CMU WALL FDN FOR "H" <= 3' - 4"**  
SCALE: 1" = 1'-0"

11  
S3.2

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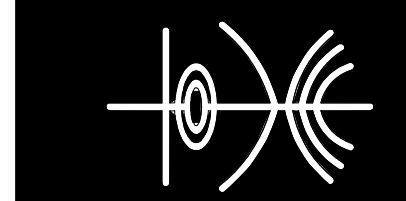
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 PHONE 770-457-5923 FAX 770-457-5989 WEB www.pesengineers.com  
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S3.2

DRAWING ISSUE RECORD		
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9/16/2021	DOE Check Set	
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1/28/22	CONFORMED SET	



**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE Issue Date

APP. BY SHL-001-21

CHK. BY RAS

DES. BY ABS

DATE Issue Date

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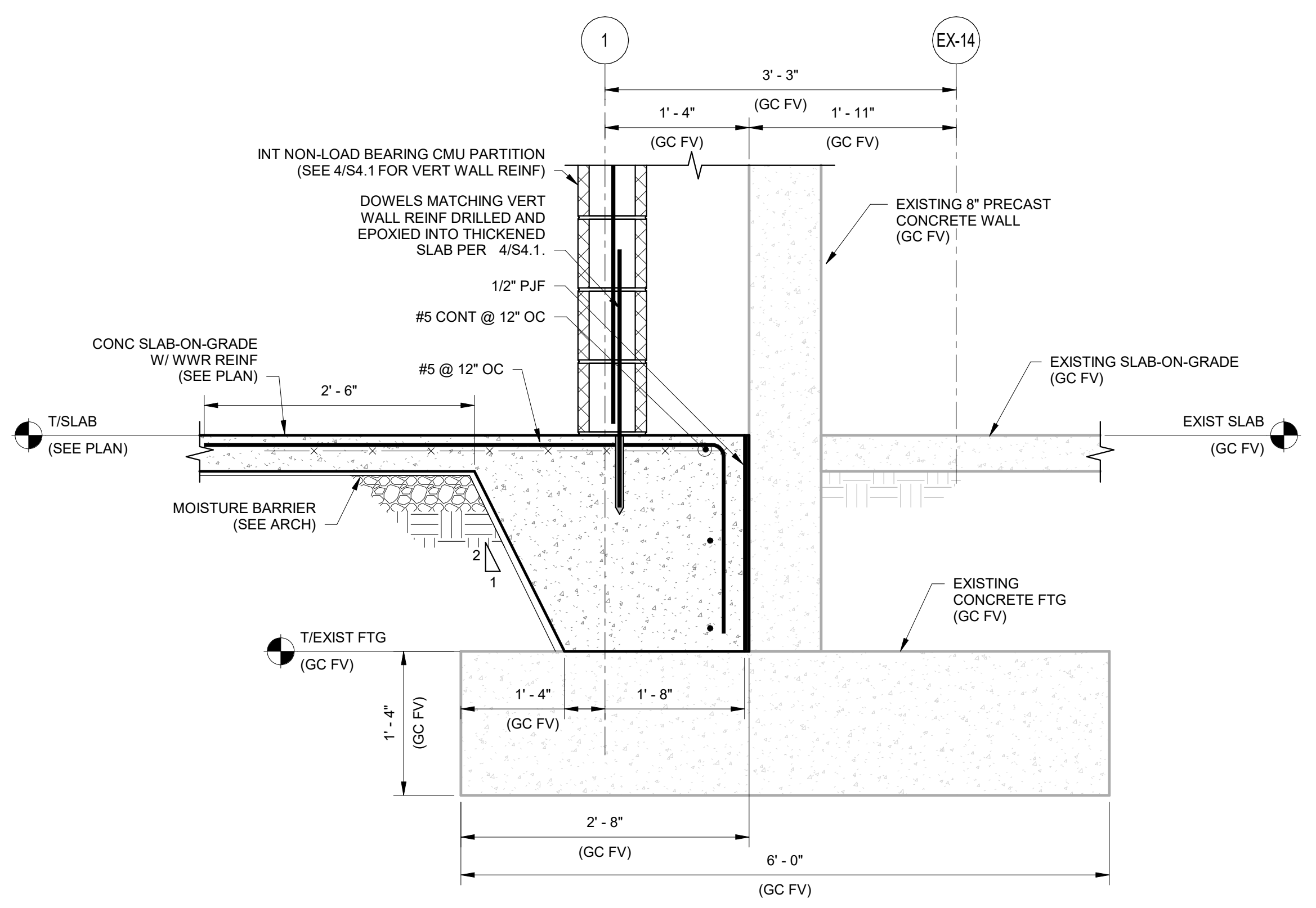
DATE Issue Date

APP. BY SHL-001-21

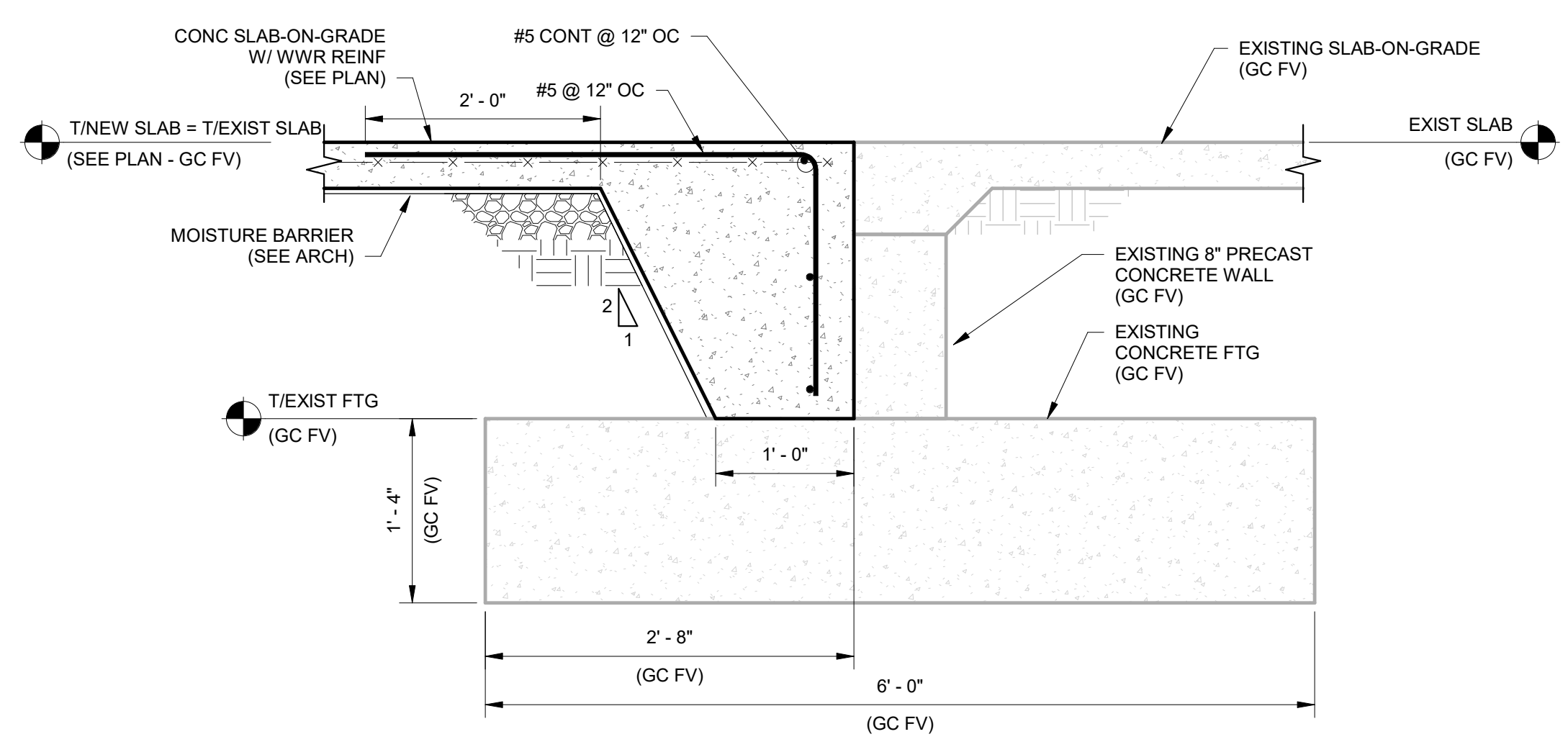
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DES. BY ABS

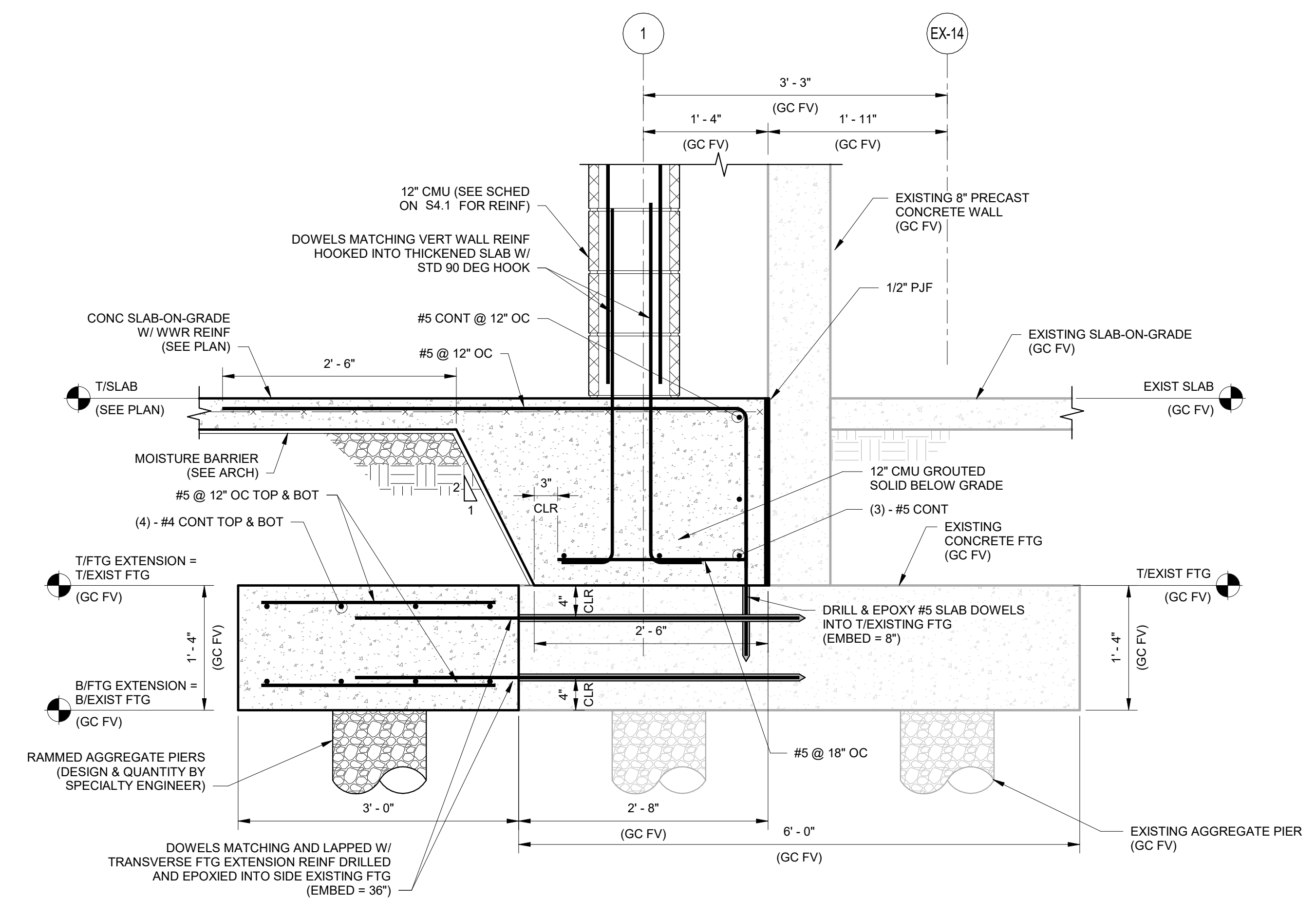
DATE Issue Date



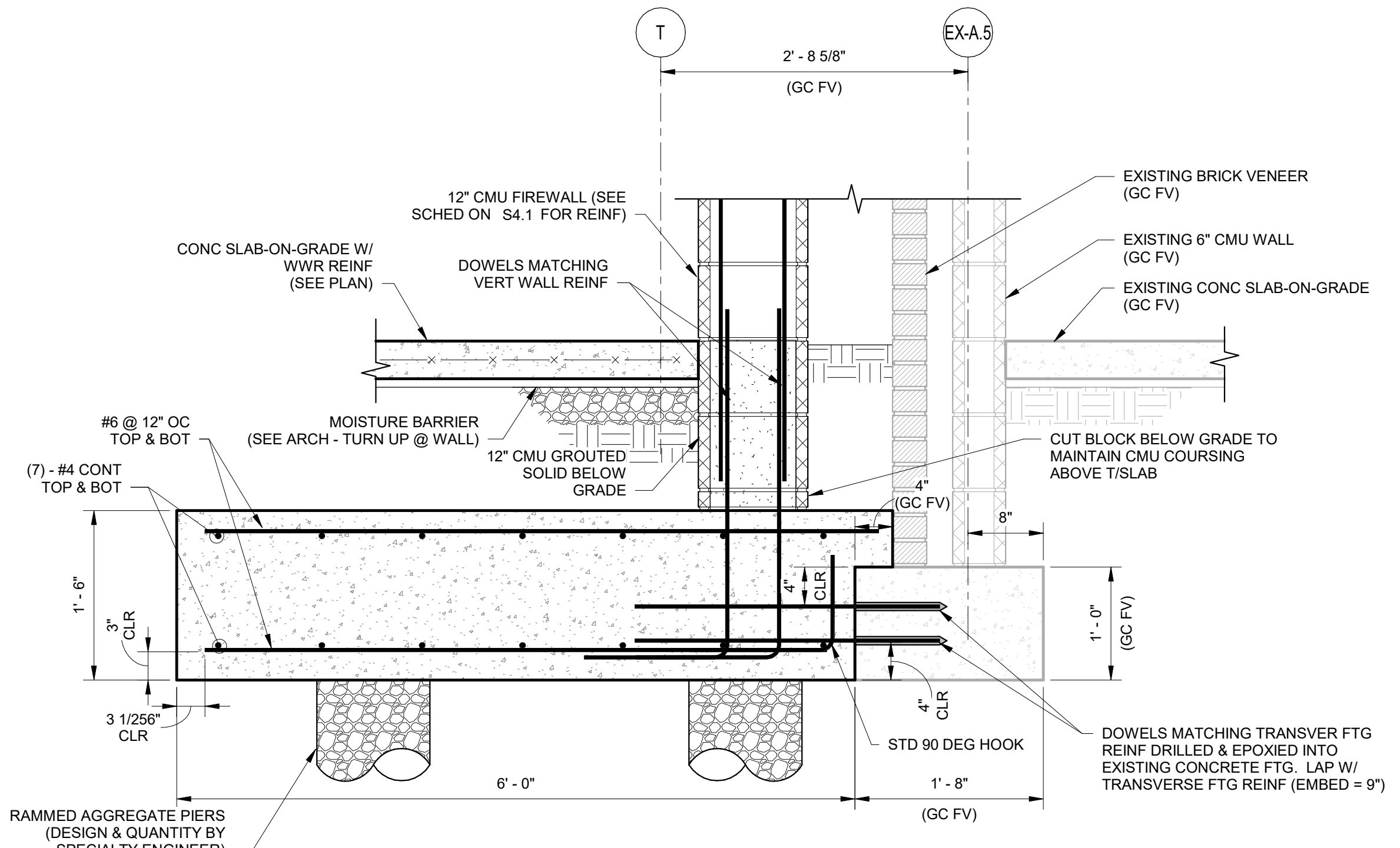
**SECTION 1**  
 SCALE: 1" = 1'-0"  
 S3.3



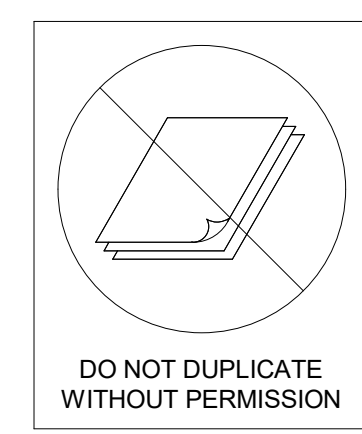
**SECTION 2**  
 SCALE: 1" = 1'-0"  
 S3.3



**SECTION 3**  
 SCALE: 1" = 1'-0"  
 S3.3

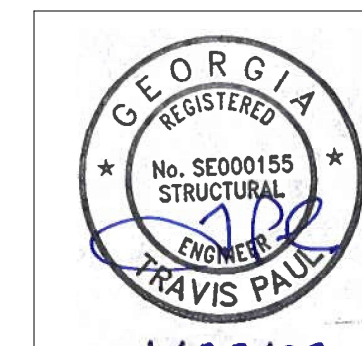


**SECTION 4**  
 SCALE: 1" = 1'-0"  
 S3.3



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S3.3

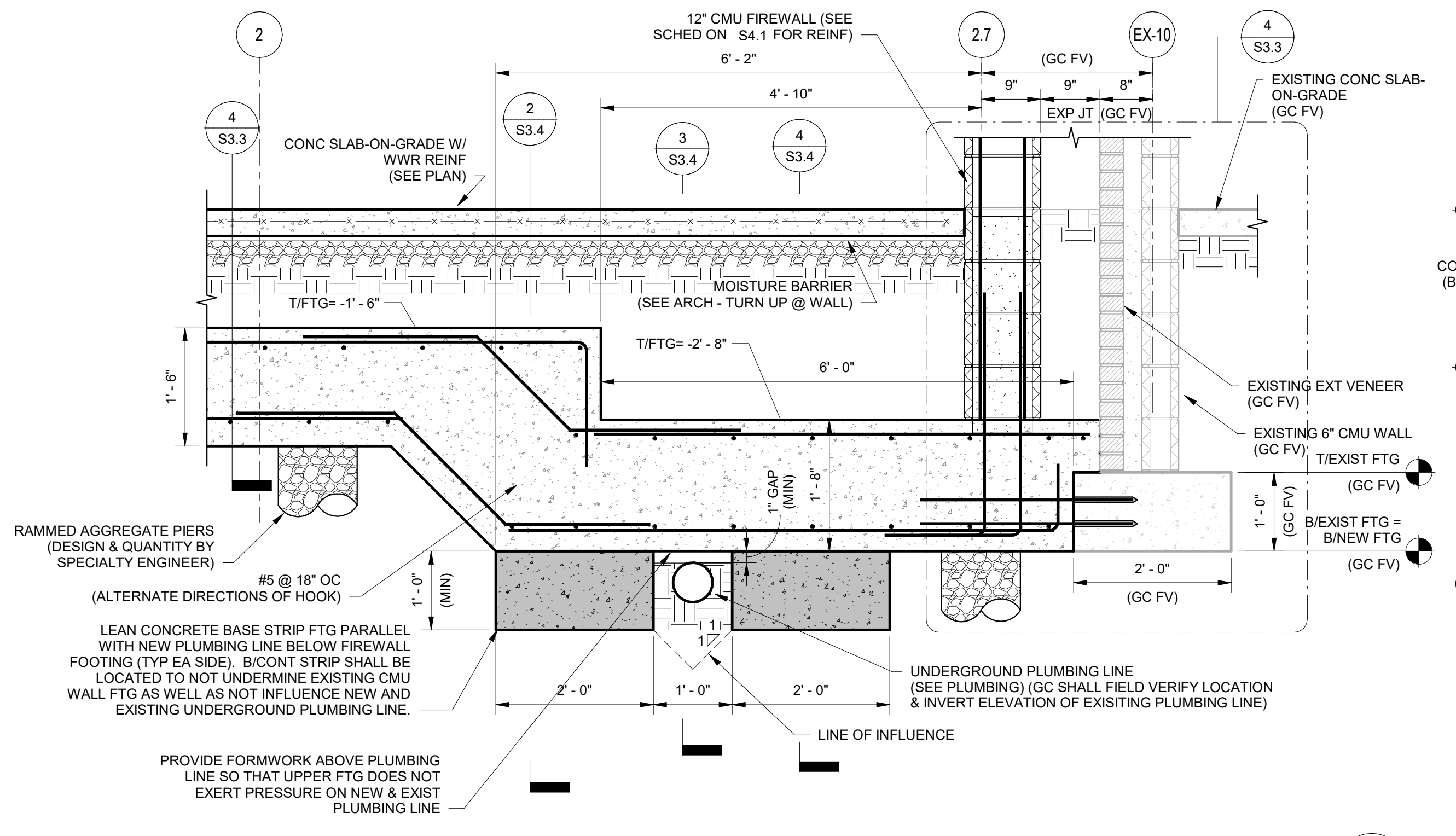
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DATE	REVISIONS	NO.
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NORTH GWINNETT HIGH SCHOOL  
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 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
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 GWINNETT COUNTY, GEORGIA

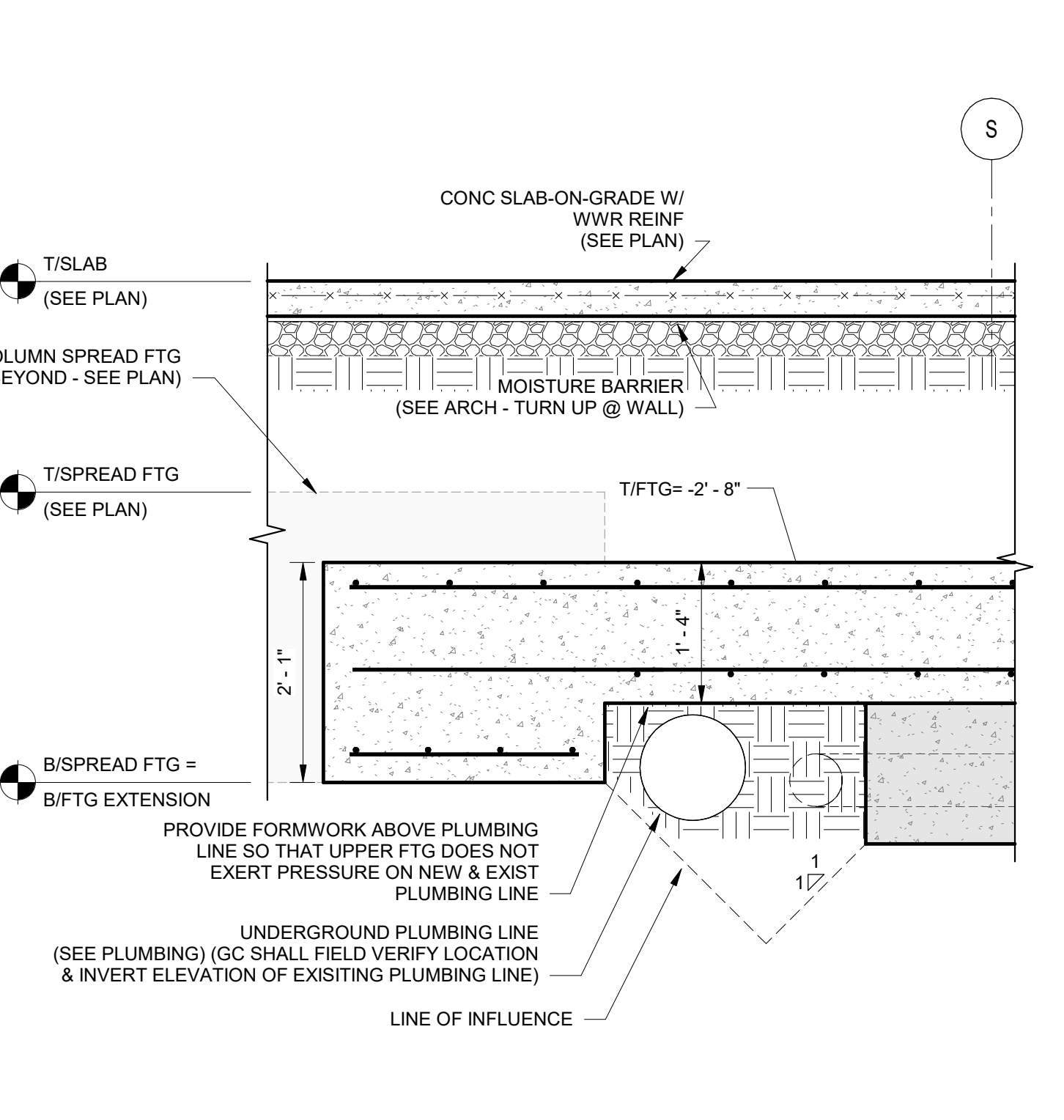
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 SHL-001-21  
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 RAS  
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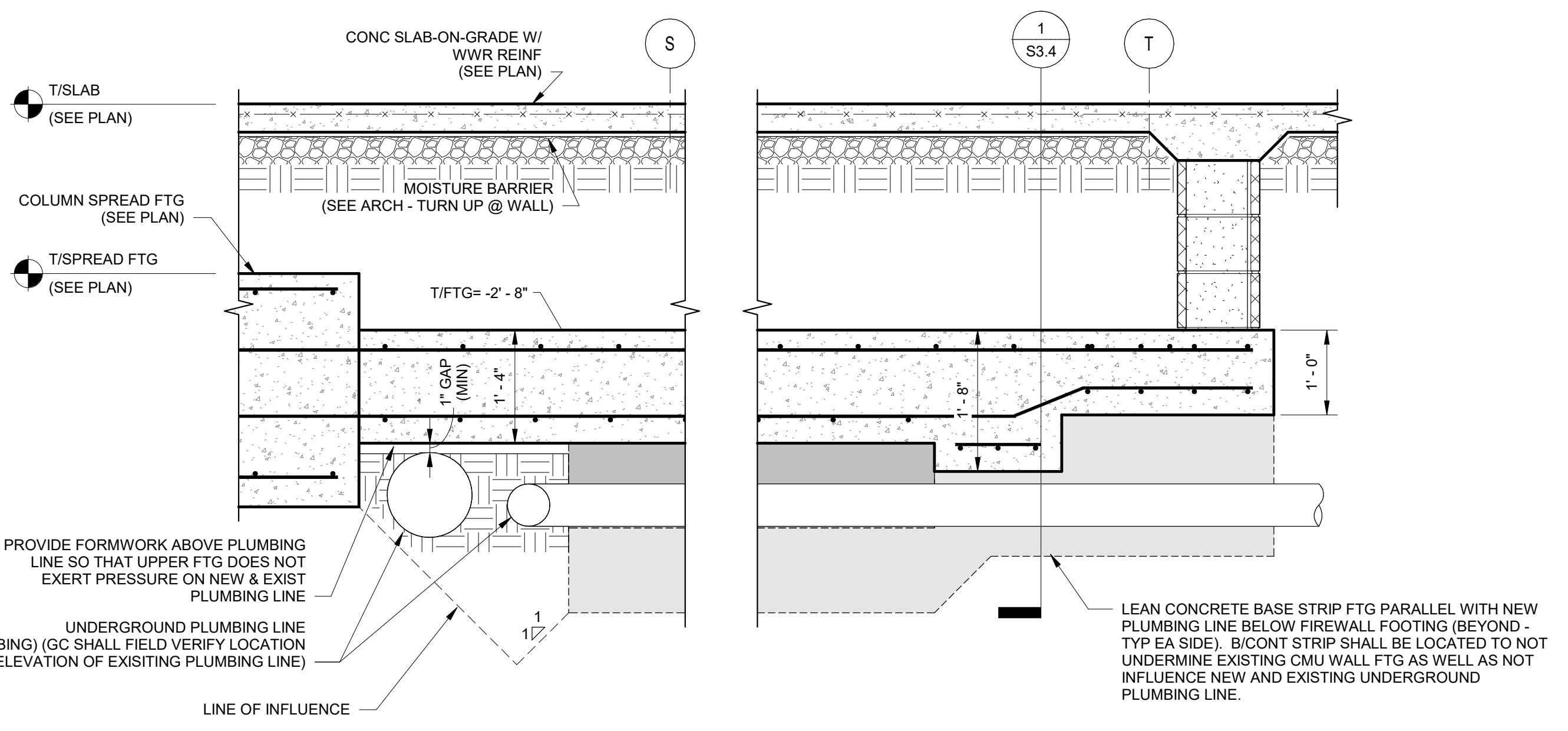
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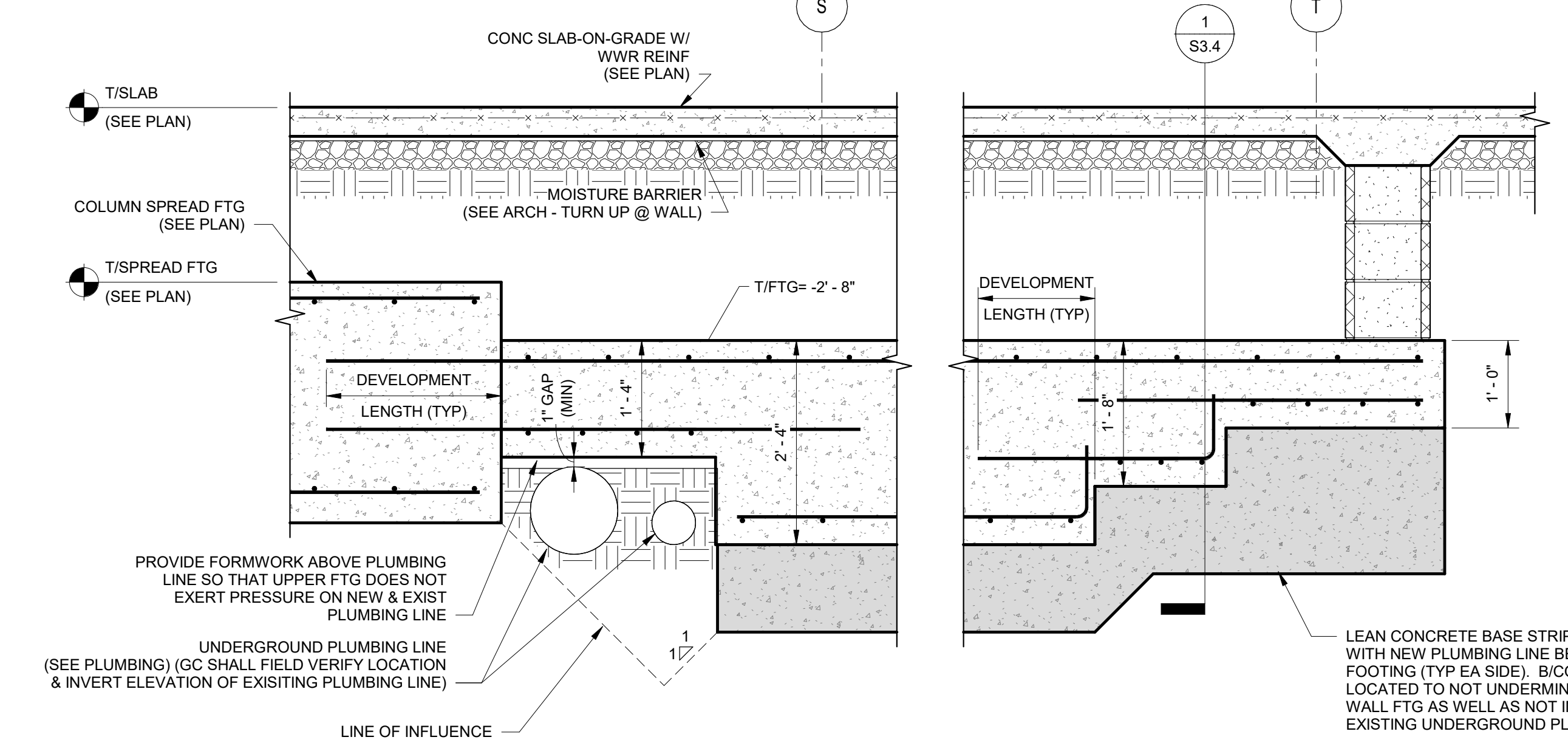
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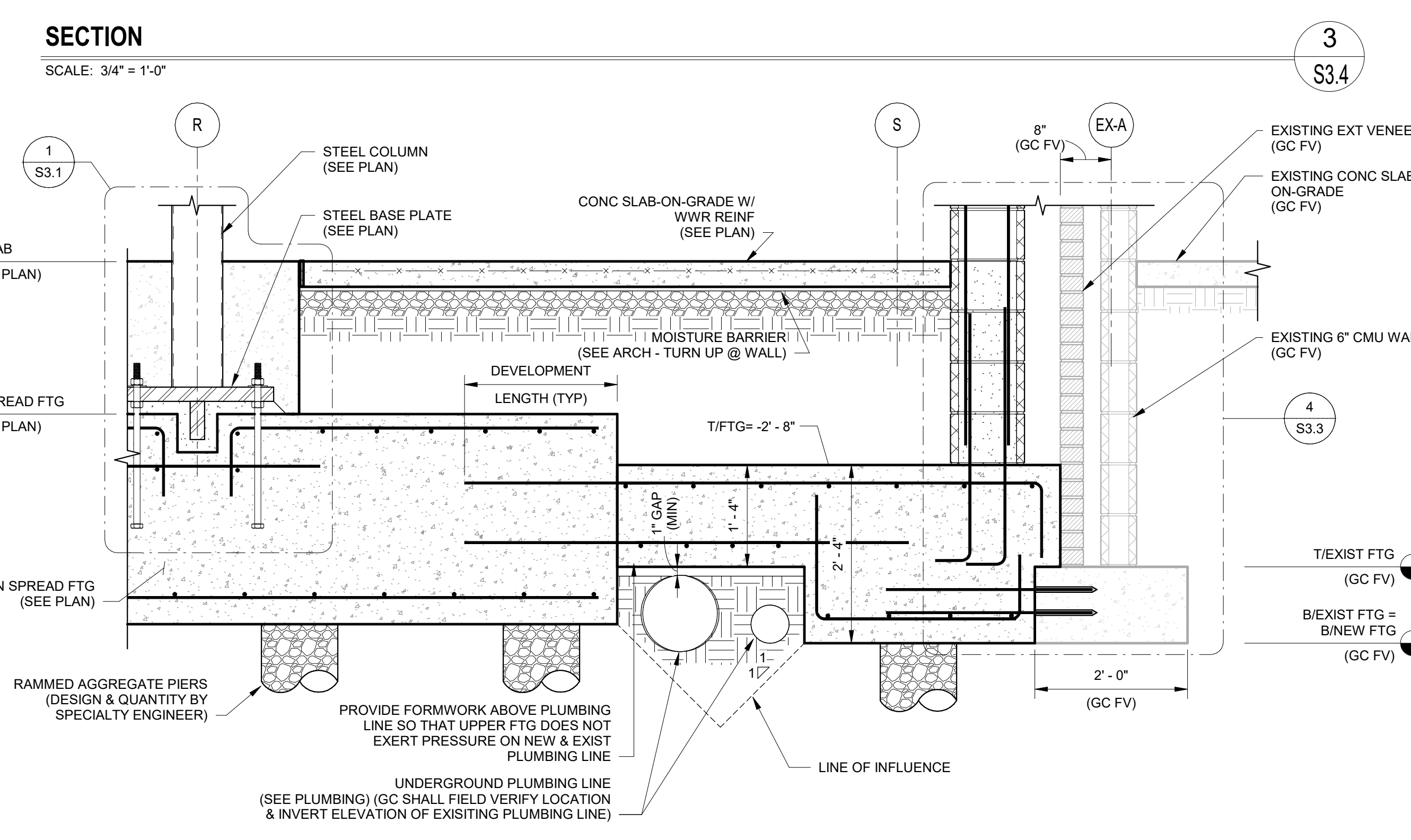
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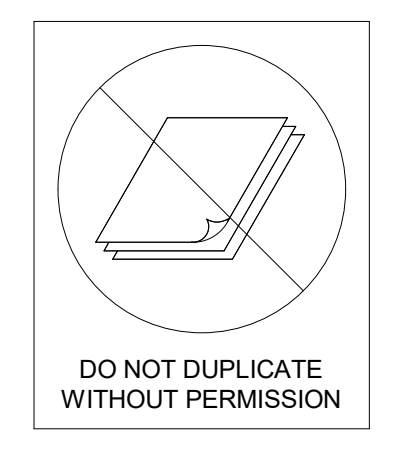
**SECTION 3**  
SCALE: 3/4" = 1'-0"



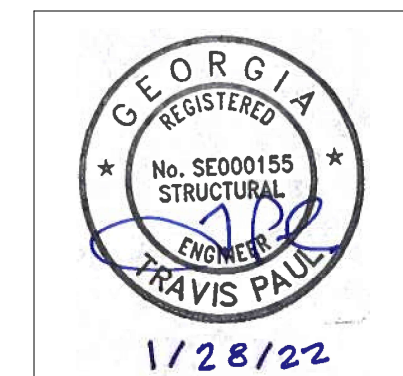
**SECTION 4**  
SCALE: 3/4" = 1'-0"



**SECTION 5**  
SCALE: 3/4" = 1'-0"



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1/28/22	CONFORMED SET	

**NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE Issue Date

NO. Issue No.

BY Issue By

FOR Issue For

DATE Issue Date

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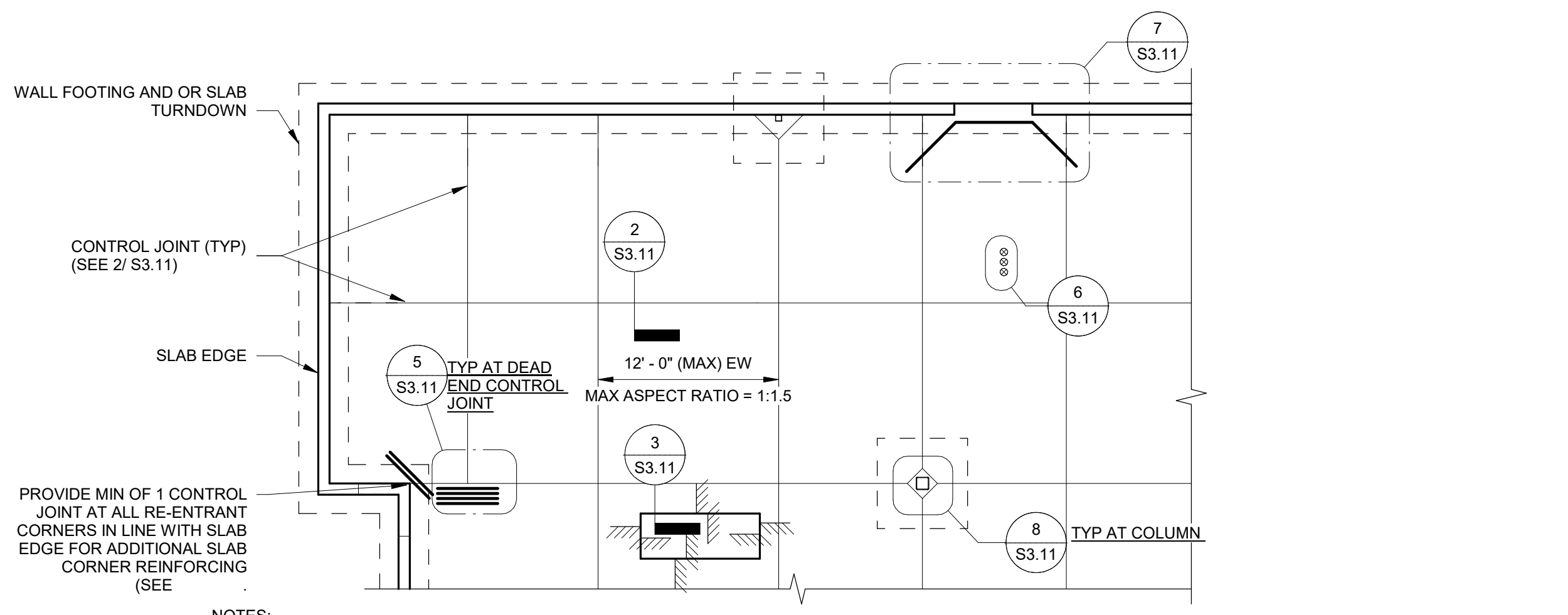
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DATE Issue Date

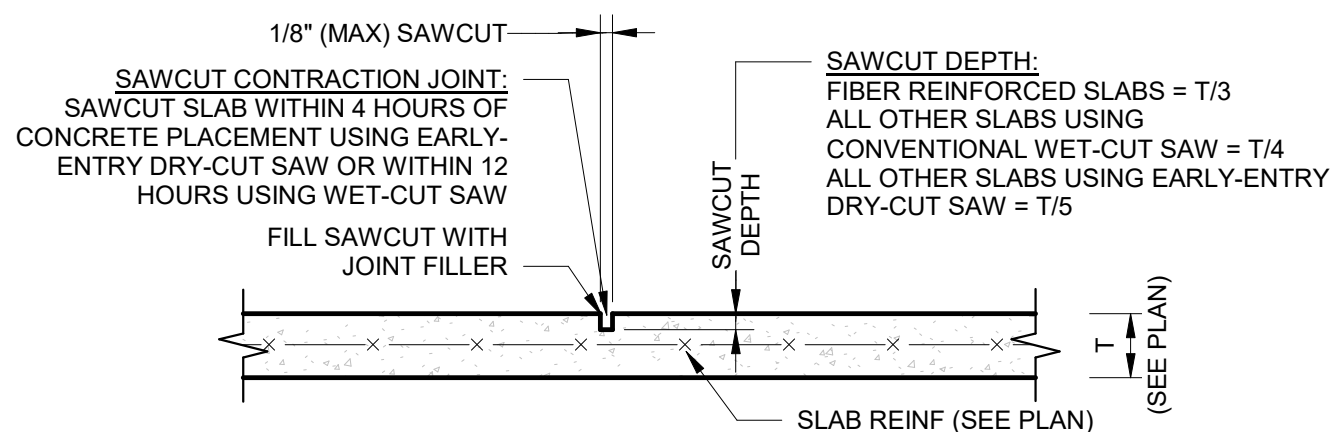
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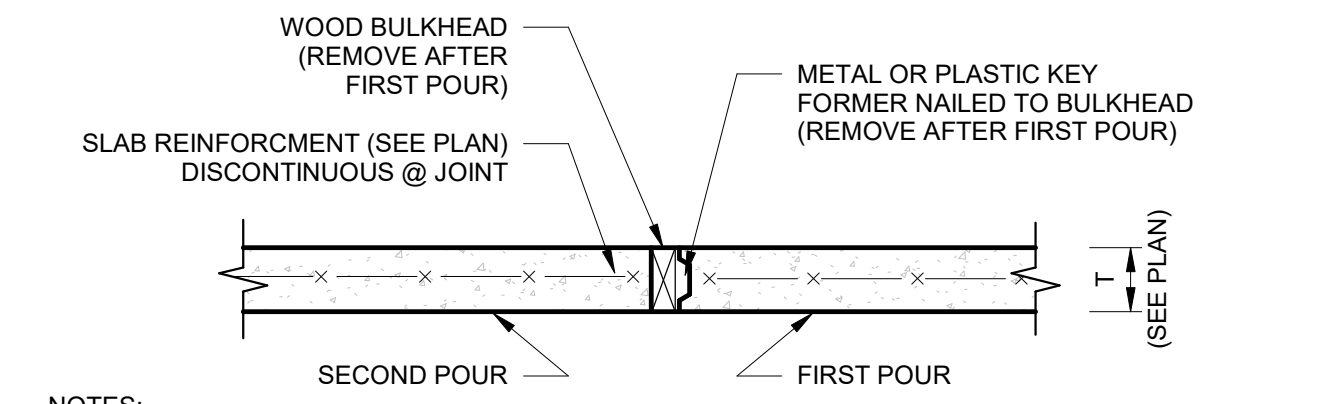
FOR Issue For



**TYPICAL CONTROL JOINT KEY PLAN - PLAN**  
NOT TO SCALE



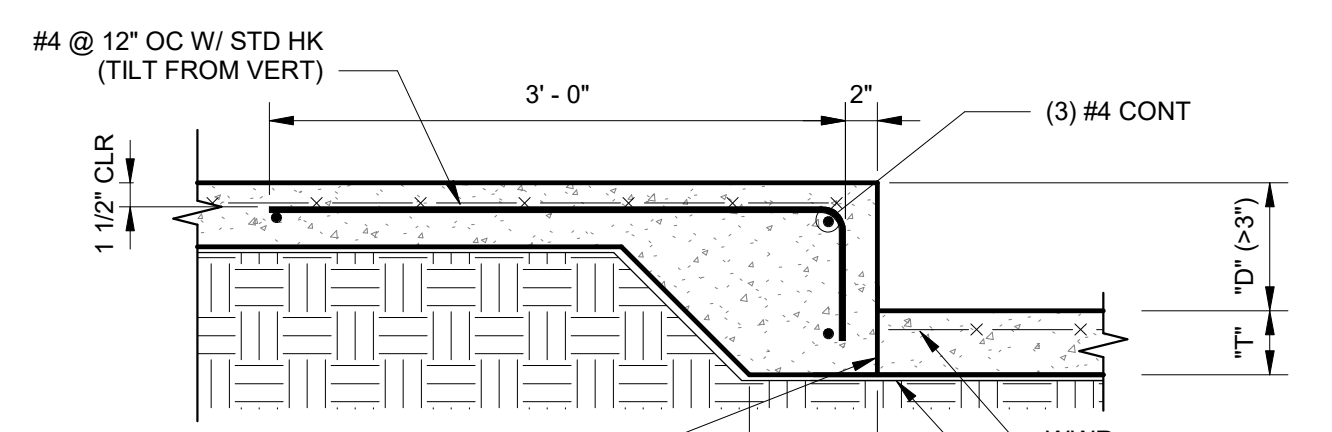
**SAWCUT CONTRACTION JOINT**



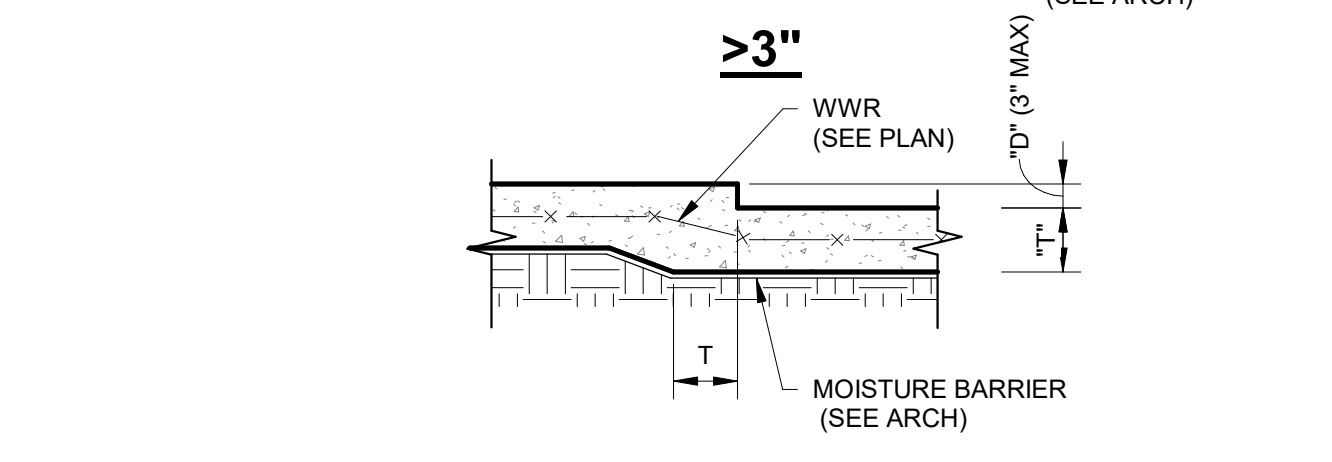
**CONSTRUCTION JOINT**

**TYPICAL CONSTRUCTION/CONTRACTION JOINT DETAILS - SECTION**

SCALE: 1" = 1'-0"



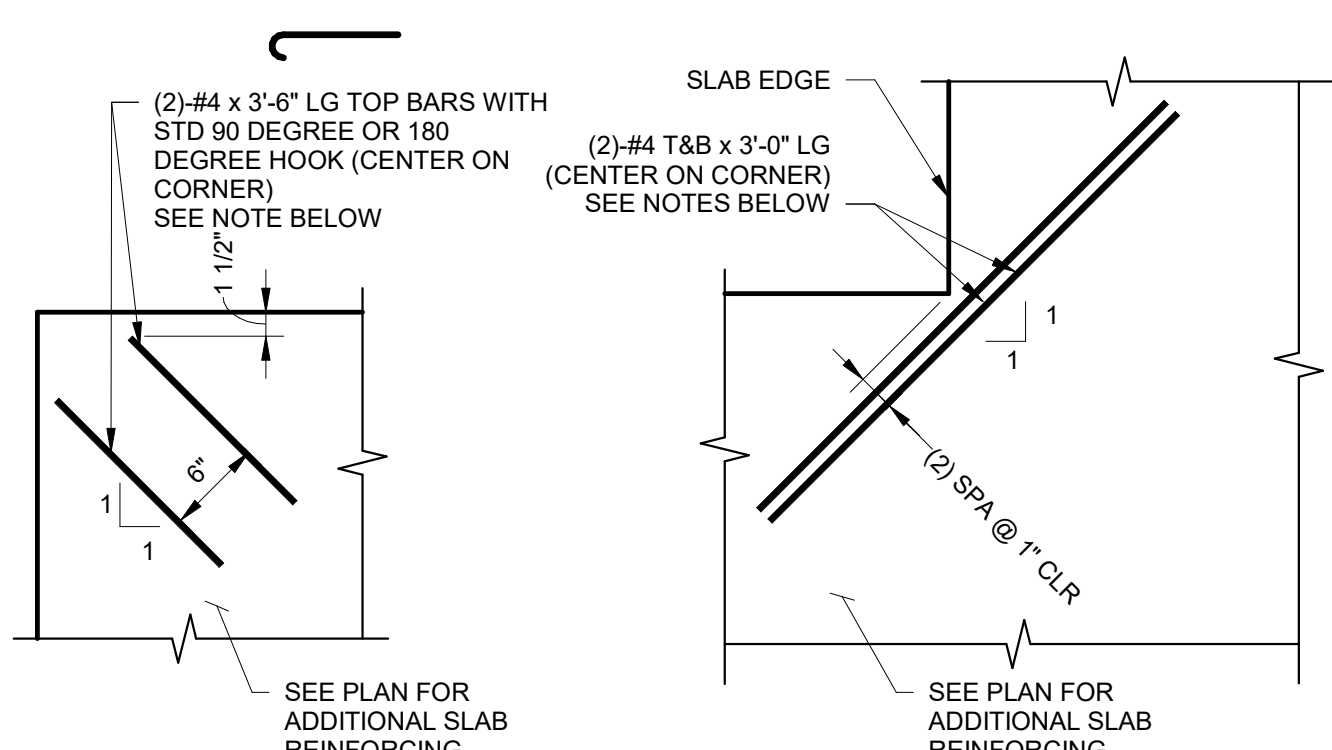
**TYPICAL DEPRESSED SLAB - SECTION**



**WIDE DOOR OPENING**

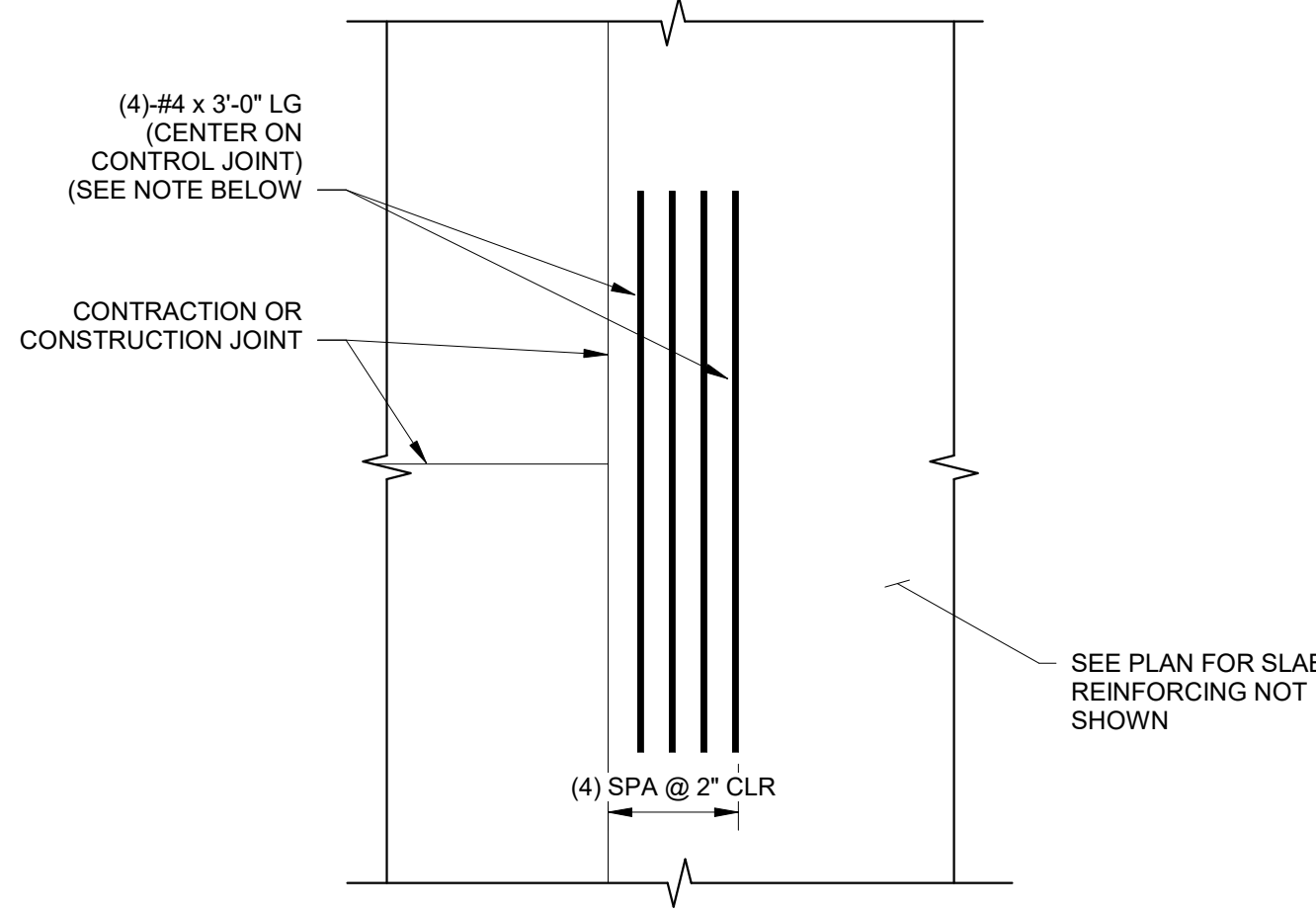
**TYPICAL SLAB REINFORCING AT DOORS - PLAN**

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



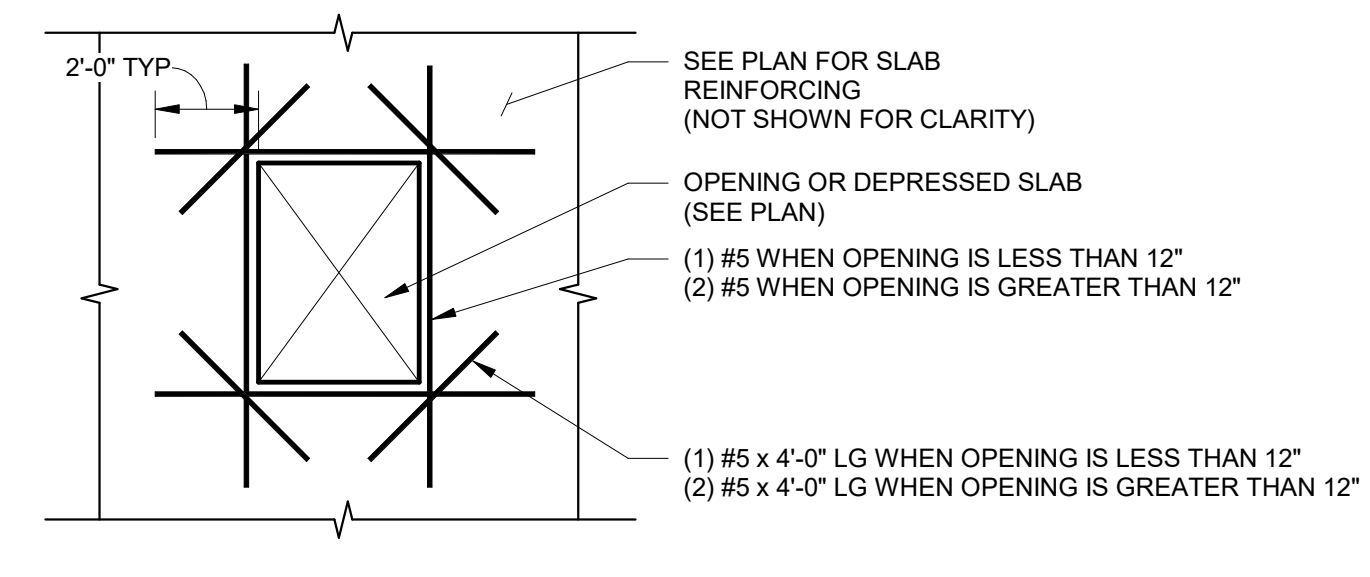
**TYPICAL ADDITIONAL SLAB CORNER REINFORCING - PLAN**

SCALE: 1" = 1'-0"



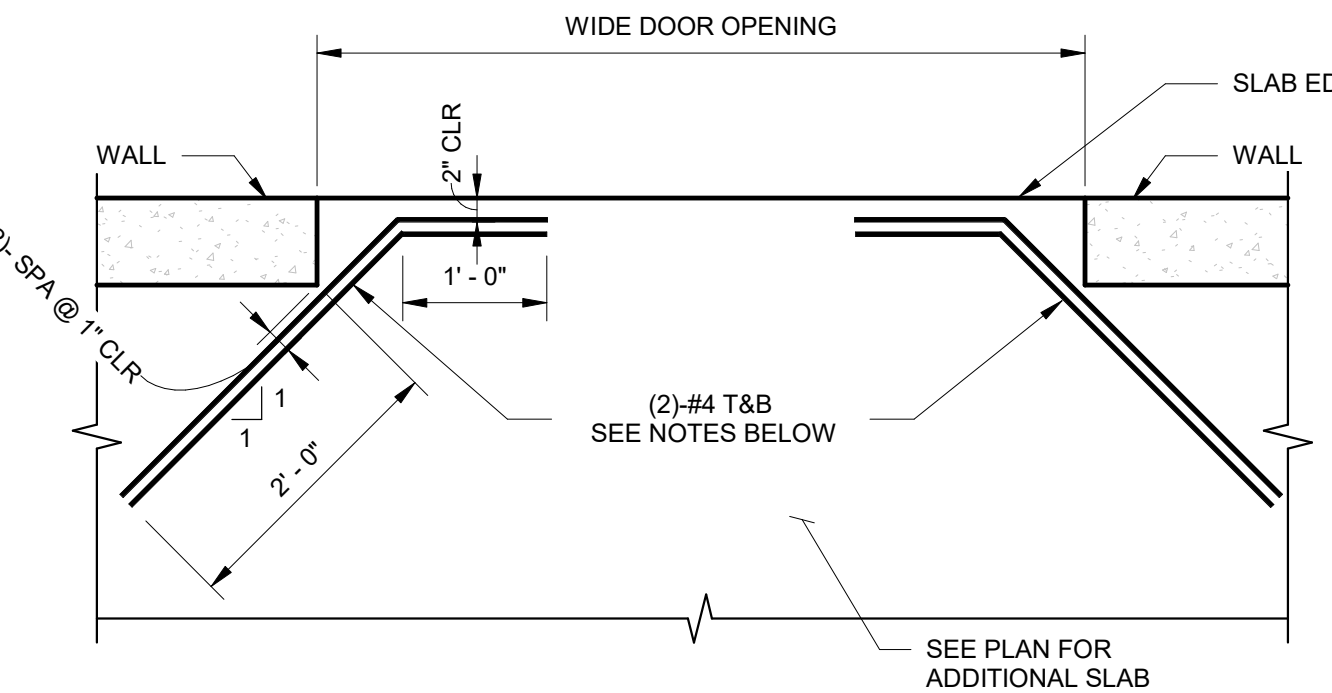
**TYPICAL DEAD END CONTROL JOINT REINFORCING - PLAN**

SCALE: 1" = 1'-0"



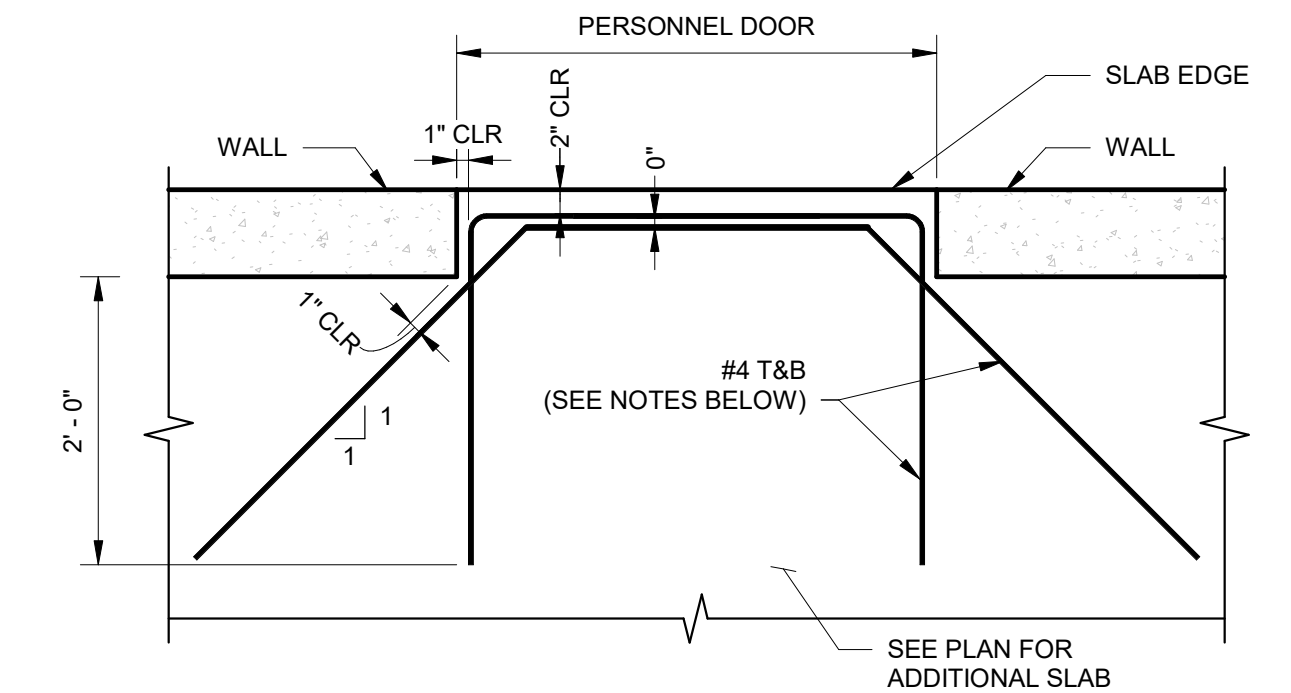
**TYPICAL REINFORCING AT SLAB-ON-GROUND OPENINGS - PLAN**

SCALE: NTS



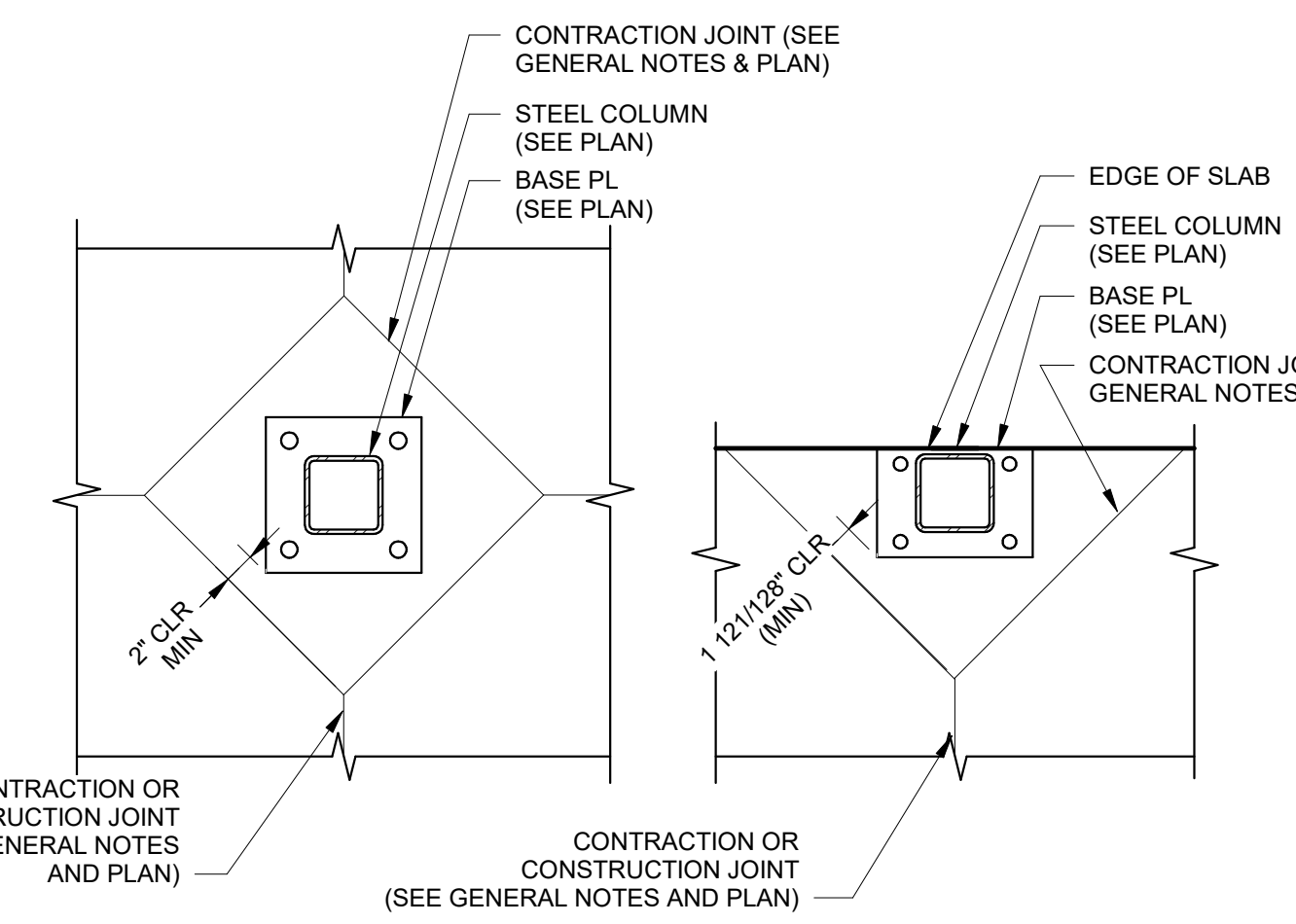
**TYPICAL SLAB REINFORCING AT DOORS - PLAN**

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



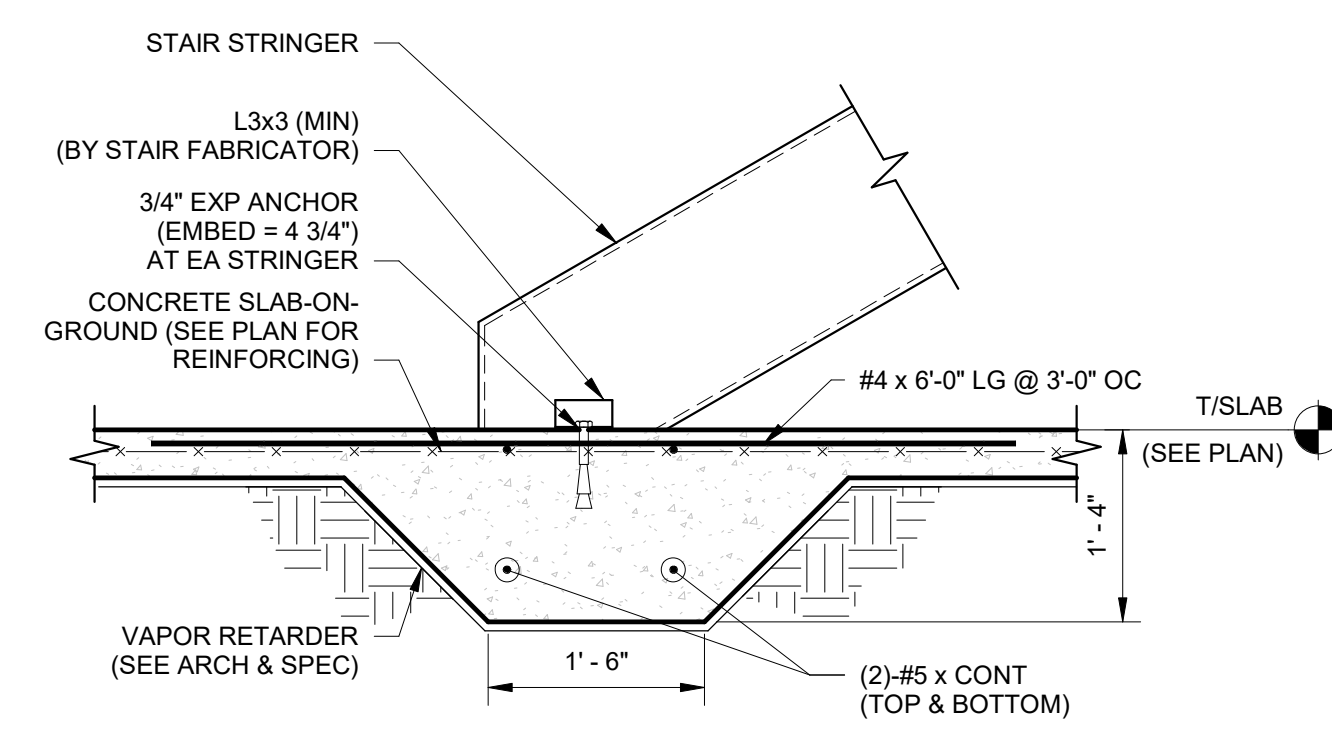
**PERSONNEL DOOR OPENING**

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



**TYPICAL ISOLATION JOINT - PLAN**

SCALE: 1" = 1'-0"

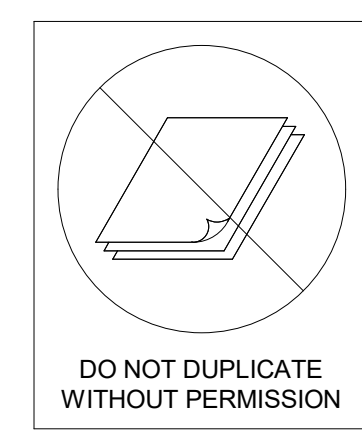


**TYPICAL THICKENED SLAB AT STAIR - SECTION**

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

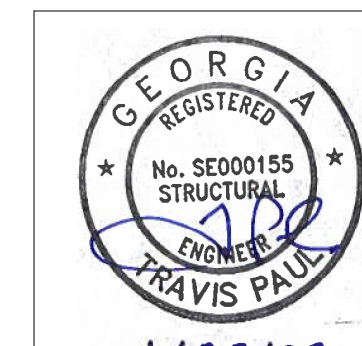
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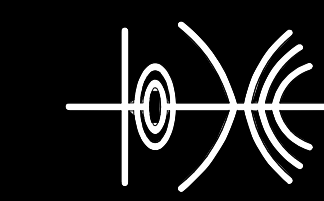


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S3.11



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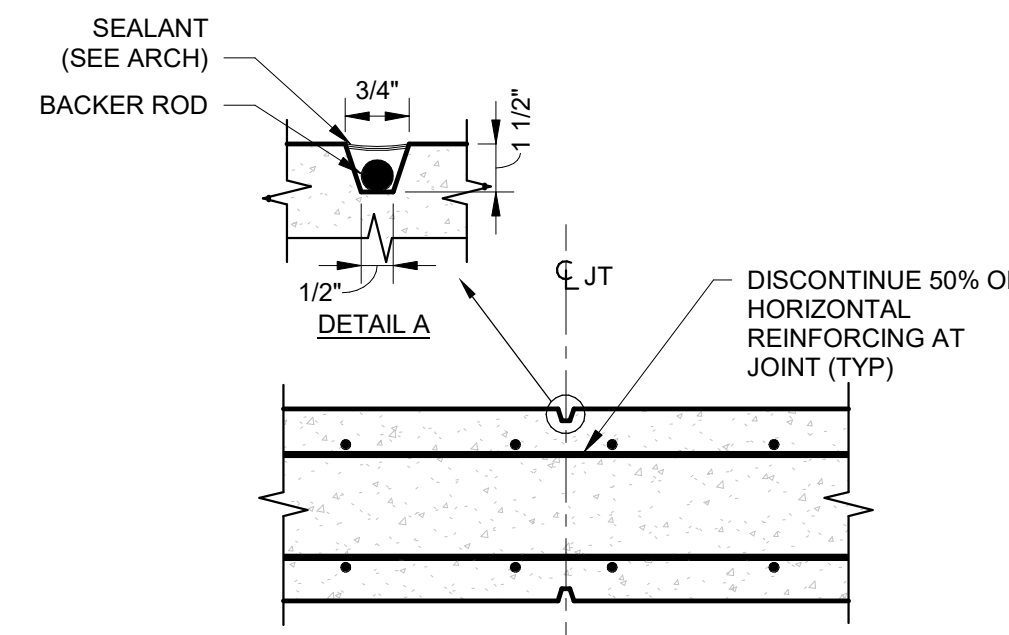


**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

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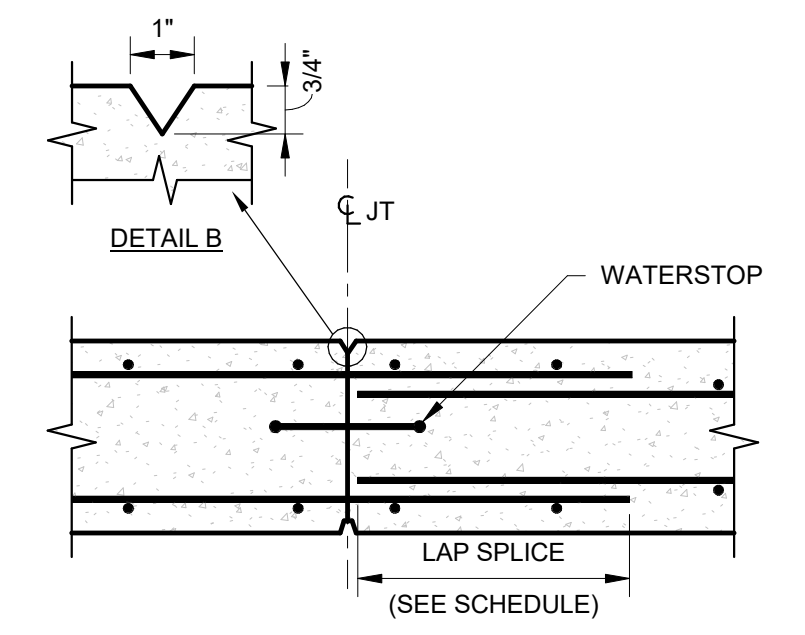


**TYPICAL WALL CONTRACTION JOINT**

- NOTES:**
1. WALL CONTRACTION JOINT DETAIL APPLIES ONLY AT EXTERIOR AND SITE WALLS. DETAIL DOES NOT APPLY TO INTERIOR FOUNDATION WALLS, SHEAR WALLS OR OTHER LOAD BEARING WALLS.
  2. WHERE NOT EXPLICITLY NOTED OR SHOWN OTHERWISE, GENERAL CONTRACTOR SHALL INSTALL CONTRACTION JOINTS AS FOLLOWS:
    - SPACING NOT TO EXCEED 20'-0" IN CONTINUOUS WALLS
    - LOCATED NOT CLOSER THAN 5'-0" AND NOT FURTHER THAN 12'-0" FROM WALL CORNERS
    - AT LOCATIONS WHERE WALL HEIGHT CHANGES
    - AT LOCATIONS WHERE WALL THICKNESS CHANGES

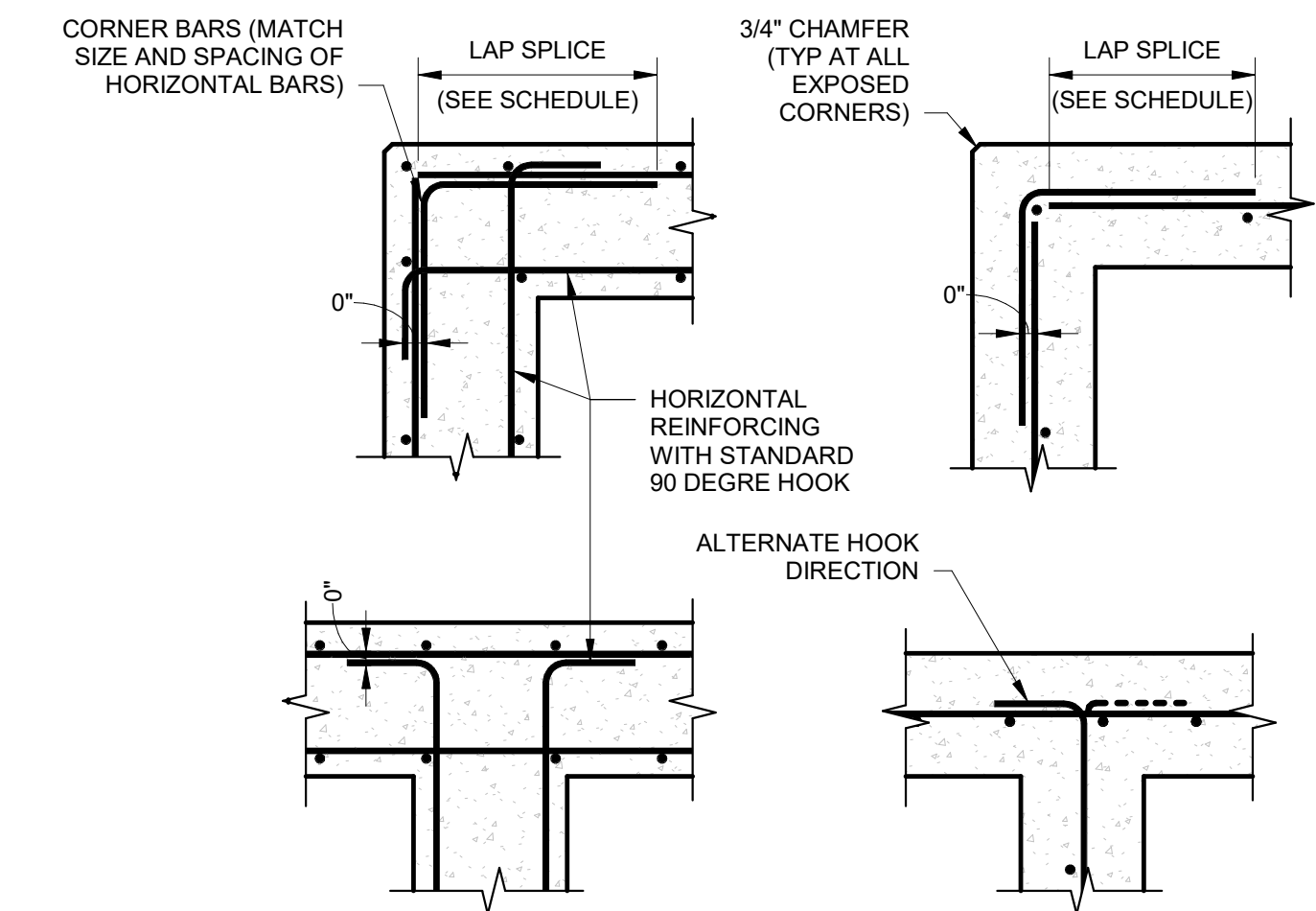
**TYPICAL CONCRETE WALL JOINTS - PLAN**  
 SCALE: 1" = 1'-0"

1  
S3.21



**TYPICAL WALL CONSTRUCTION JOINT**

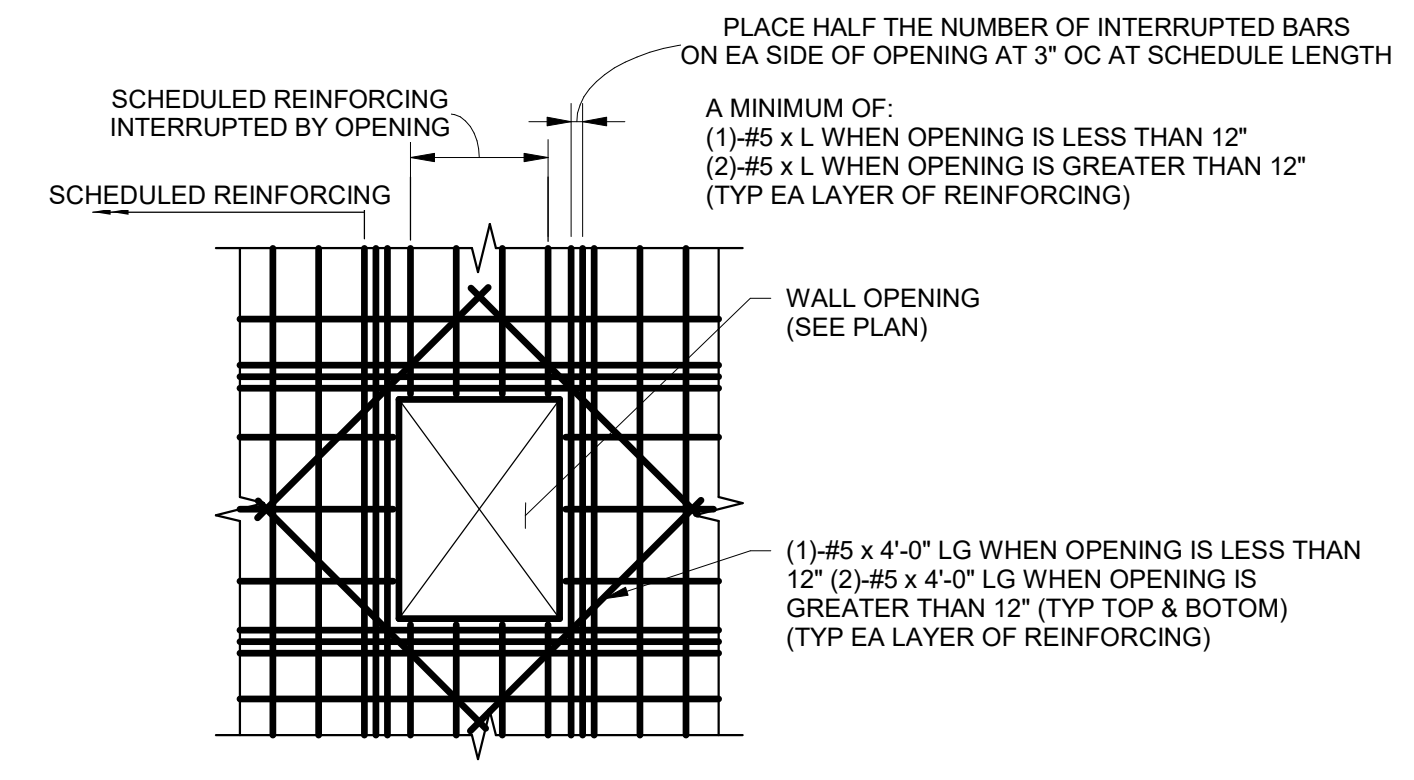
- NOTES:**
1. CHAMFER STRIP IS NOT REQUIRED WHERE WALL IS NOT EXPOSED TO VIEW.
  2. IF CHAMFER STRIP IS USED AT WALLS TO BE BACKFILLED, INSTALL JOINT SEALANT PER DETAIL A AT SOIL SIDE OF WALL.
  3. WATERSTOP IS NOT REQUIRED AT INTERIOR WALLS.



**TYPICAL REINFORCING AT CONCRETE WALL CORNERS & INTERSECTIONS - PLAN**

SCALE: 1" = 1'-0"

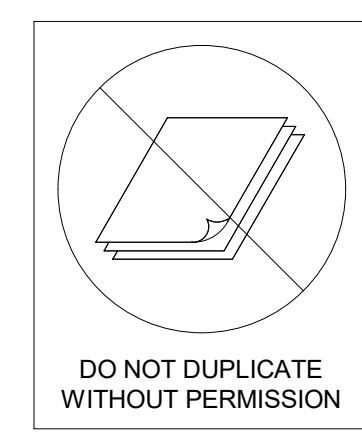
2  
S3.21



**TYPICAL REINFORCING AT CONCRETE WALL OPENING - SECTION**

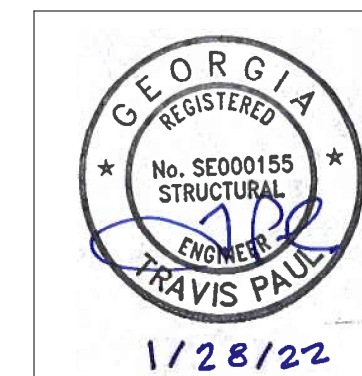
SCALE: 3/4" = 1'-0"

3  
S3.21



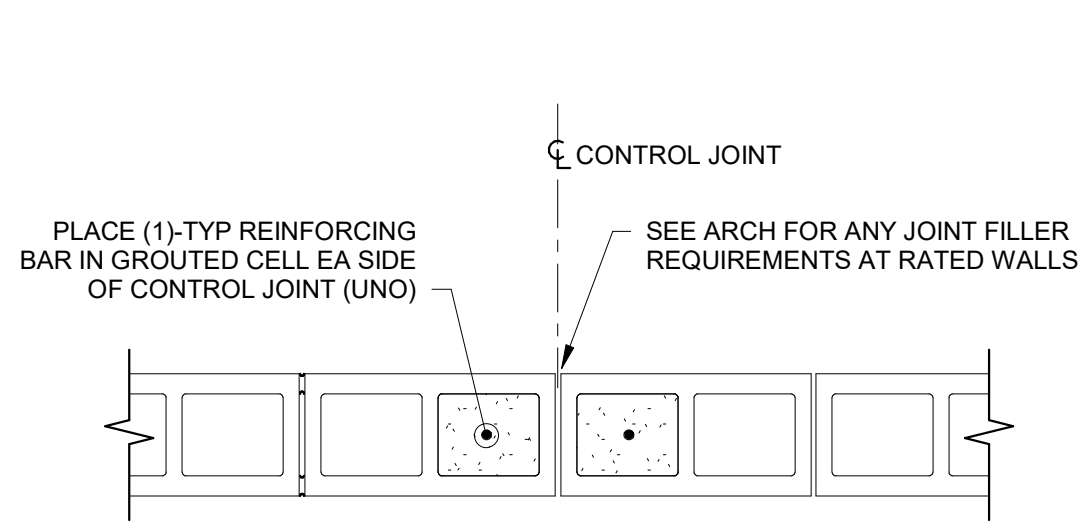
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1/28/22

S3.21

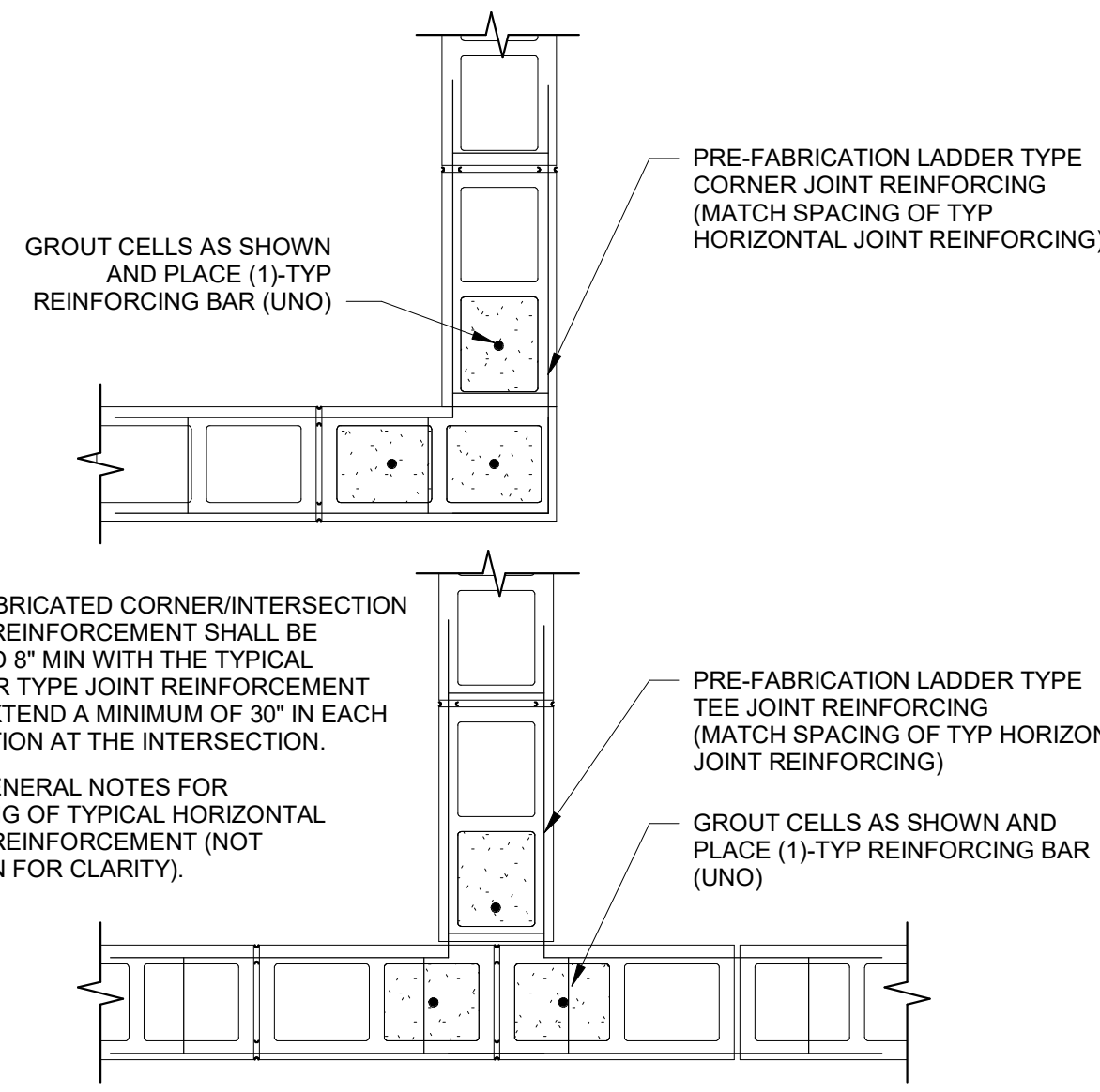


- NOTES:**
- CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SHALL MATCH VENEER CONTROL JOINTS WHERE APPLICABLE.
  - CONTROL JOINTS SHALL NOT BE LOCATED THROUGH BEAMS OR LINTELS, THEIR BEARING DISTANCE, OR THE REQUIRED JAMBS ON EITHER SIDE OF THE OPENING.
  - CONTROL JOINTS SHALL NOT BE LOCATED WITHIN A WALL DESIGNATED ON THE STRUCTURAL PLANS AS A SHEAR WALL WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
  - HORIZONTAL JOINT REINFORCEMENT TO STOP AT EACH SIDE OF CONTROL JOINT. TYPICAL HORIZONTAL JOINT REINFORCEMENT NOT SHOWN FOR CLARITY.
  - DO NOT CUT CONTINUOUS BOND BEAMS OR BOND BEAM REINFORCEMENT AT CONTROL JOINTS. PROVIDE APPEARANCE OF CONTROL JOINT IN BOND BEAM WHERE JOINT IS EXPOSED (SEE ARCHITECTURAL).
  - WHERE NOT EXPLICITLY NOTED OR SHOWN OTHERWISE, GC SHALL INSTALL CONTROL JOINTS AS FOLLOWS:
    - SPACING NOT TO EXCEED 25'-0" IN CONTINUOUS WALLS
    - LOCATED NOT CLOSER THAN 4'-0" AND NOT FURTHER THAN 12'-0" FROM WALL CORNERS
    - AT LOCATIONS WHERE WALL HEIGHT CHANGES
    - AT LOCATIONS WHERE WALL THICKNESS CHANGES

**TYPICAL CMU WALL CONTROL JOINT - PLAN**

SCALE: 1" = 1'-0"

1  
S4.1

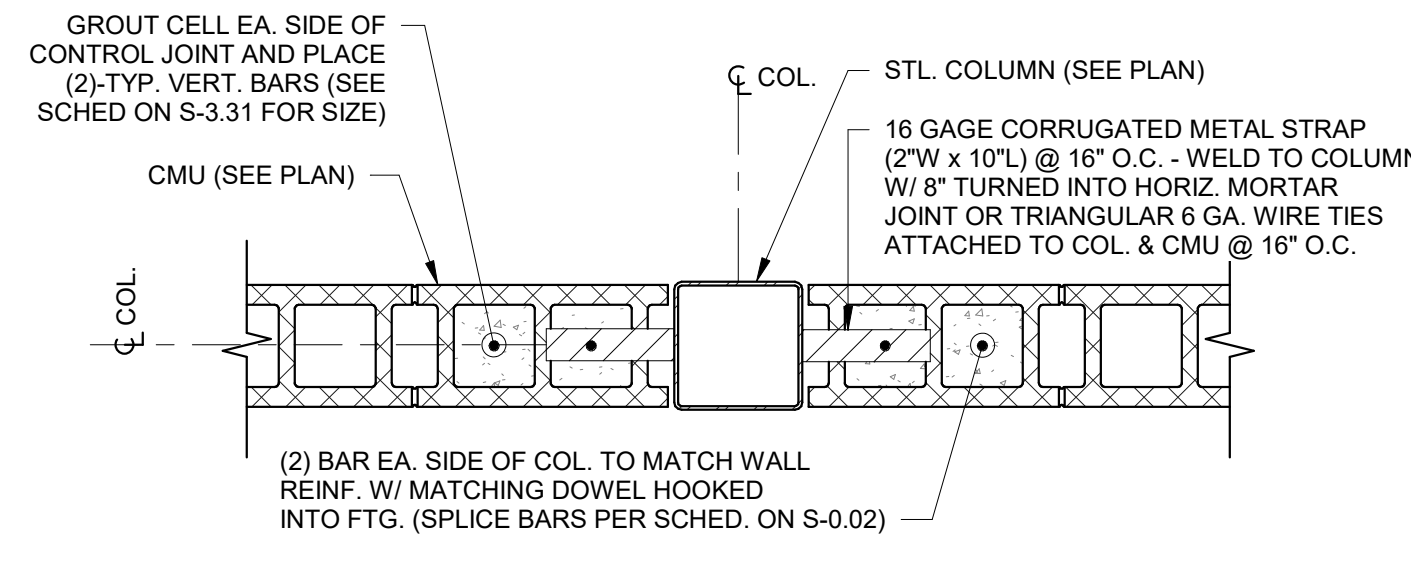


- NOTES:**
- PRE-FABRICATED CORNER/INTERSECTION JOINT REINFORCEMENT SHALL BE LAPPED 6" MIN WITH THE TYPICAL LADDER TYPE JOINT REINFORCEMENT AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.
  - SEE GENERAL NOTES FOR SPACING OF TYPICAL HORIZONTAL JOINT REINFORCEMENT (NOT SHOWN FOR CLARITY).

**TYPICAL CMU WALL CORNER/INTERSECTION REINFORCEMENT - PLAN**

SCALE: 1" = 1'-0"

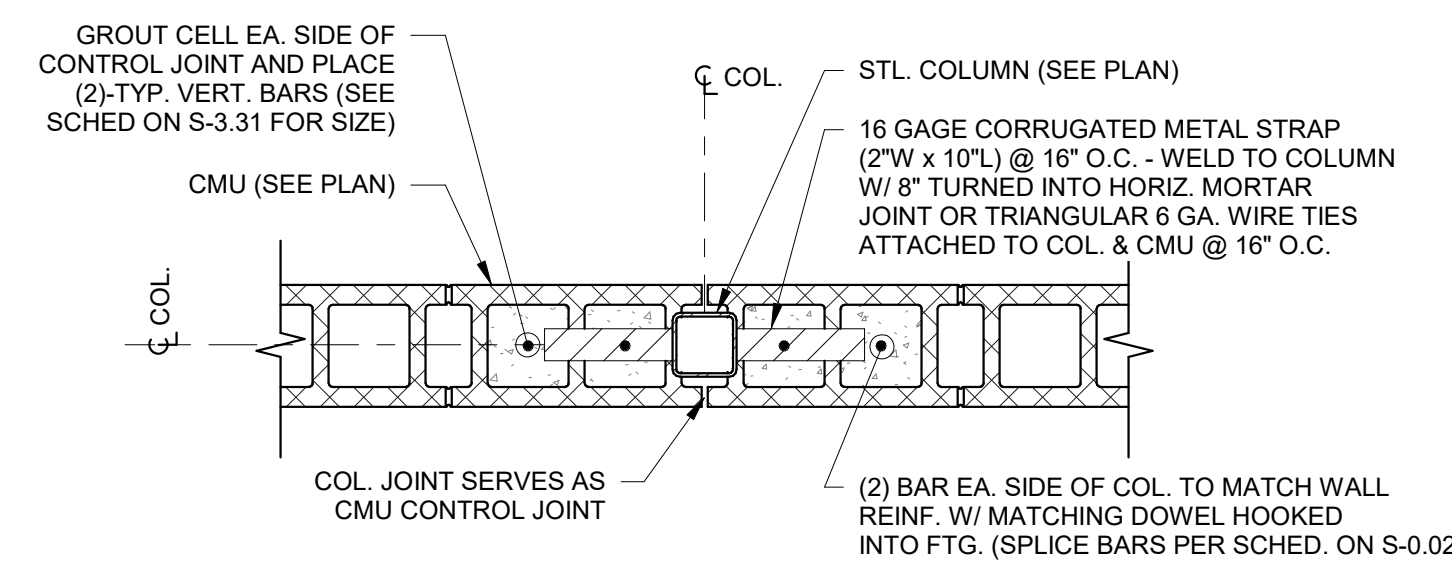
2  
S4.1



**AT COLUMNS THAT MATCH CMU WIDTH**

**TYPICAL MASONRY WALL TO STEEL COLUMN CONNECTION**

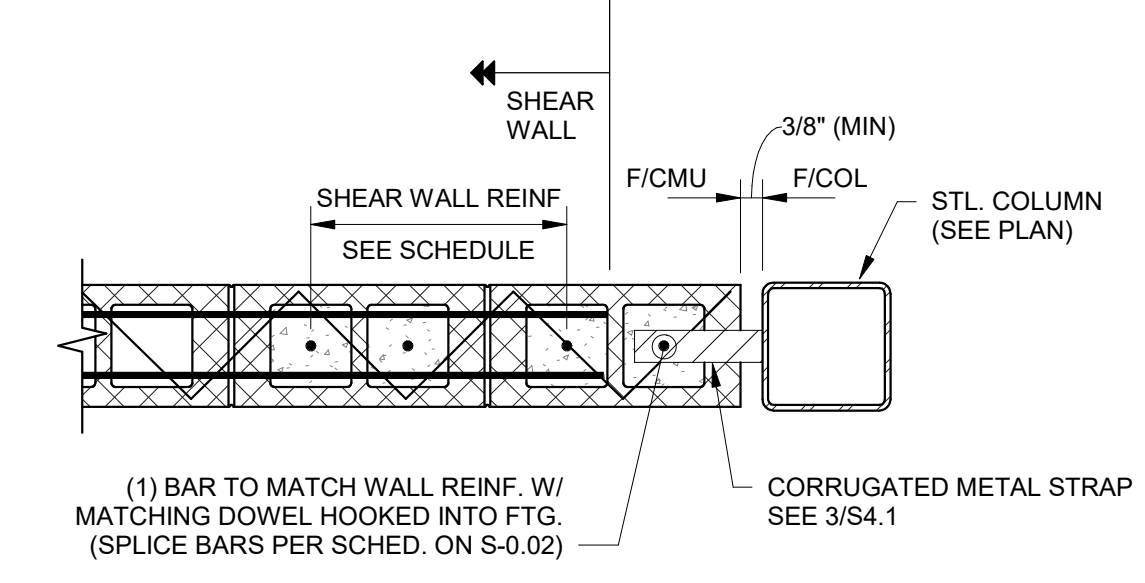
SCALE: 1" = 1'-0"



**AT COLUMNS THAT FIT INSIDE CMU WIDTH**

- NOTES:**
- SEE ARCH FOR PILASTERS AROUND COLUMNS.

3  
S4.1

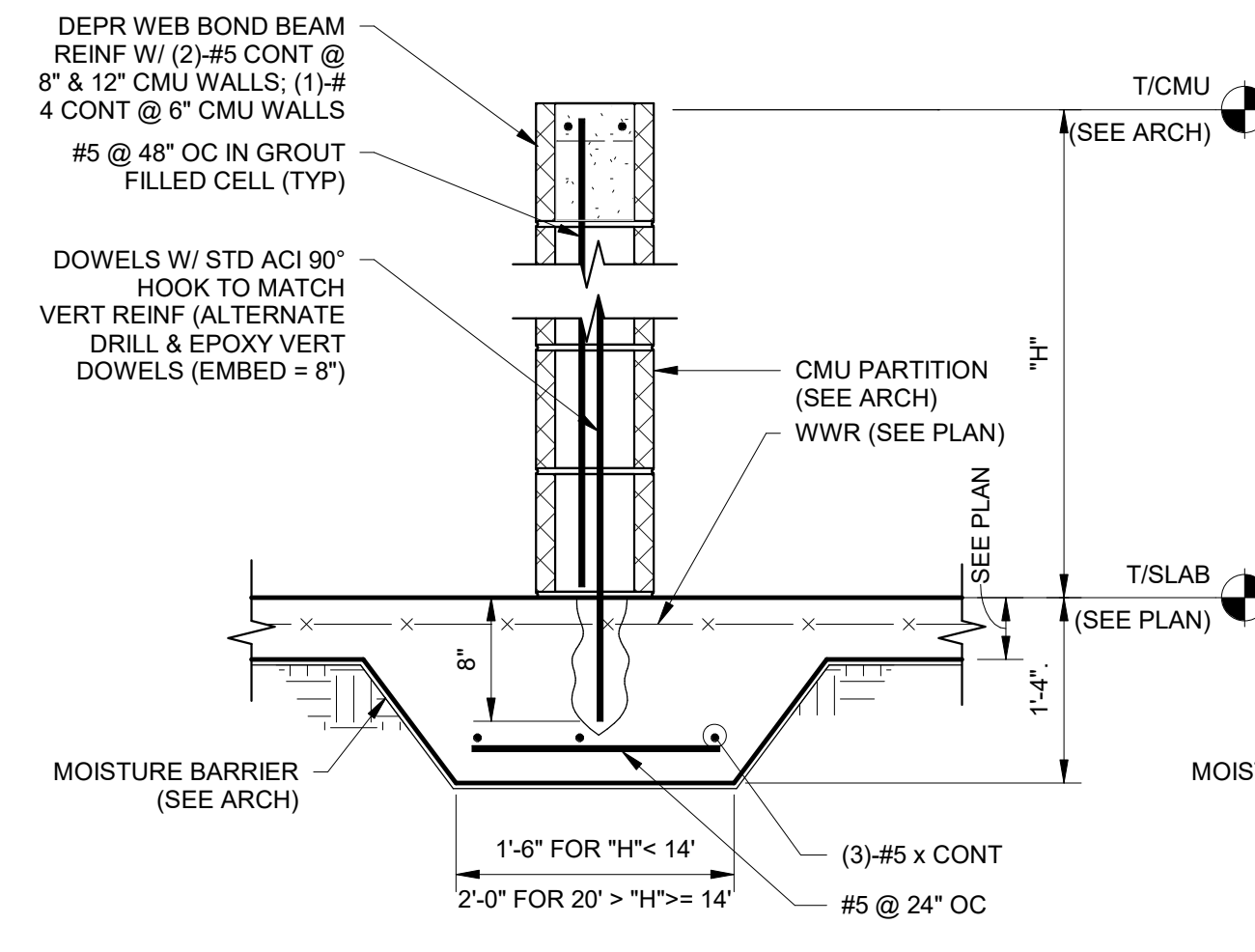


**AT SHEAR WALL END**

**TYPICAL THICKENED SLAB UNDER NON-LOAD BEARING CMU WALL - SECTION**

SCALE: 1" = 1'-0"

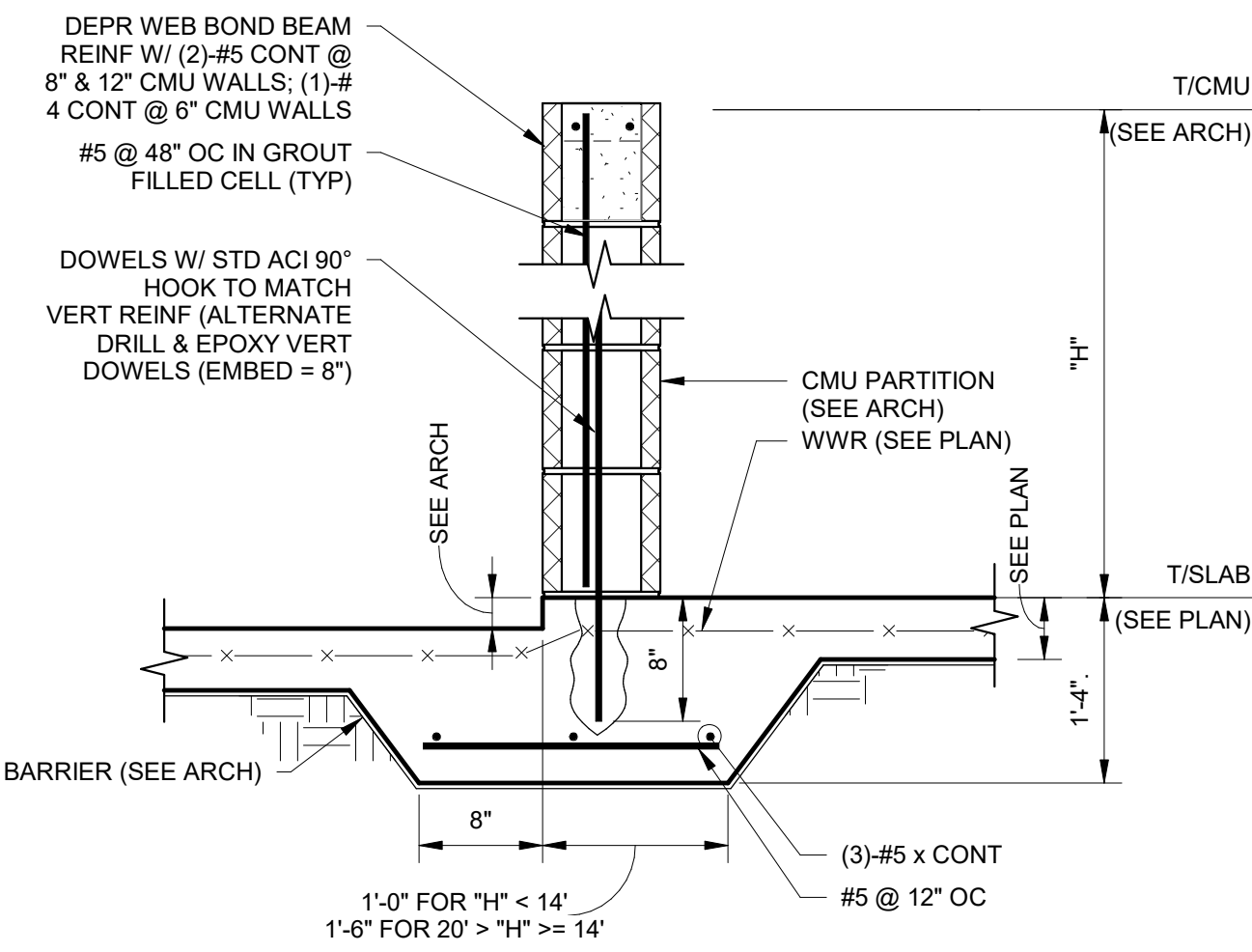
4  
S4.1



**TYP CMU PART @ SLAB ON GRADE**

**TYPICAL THICKENED SLAB UNDER NON-LOAD BEARING CMU WALL - SECTION**

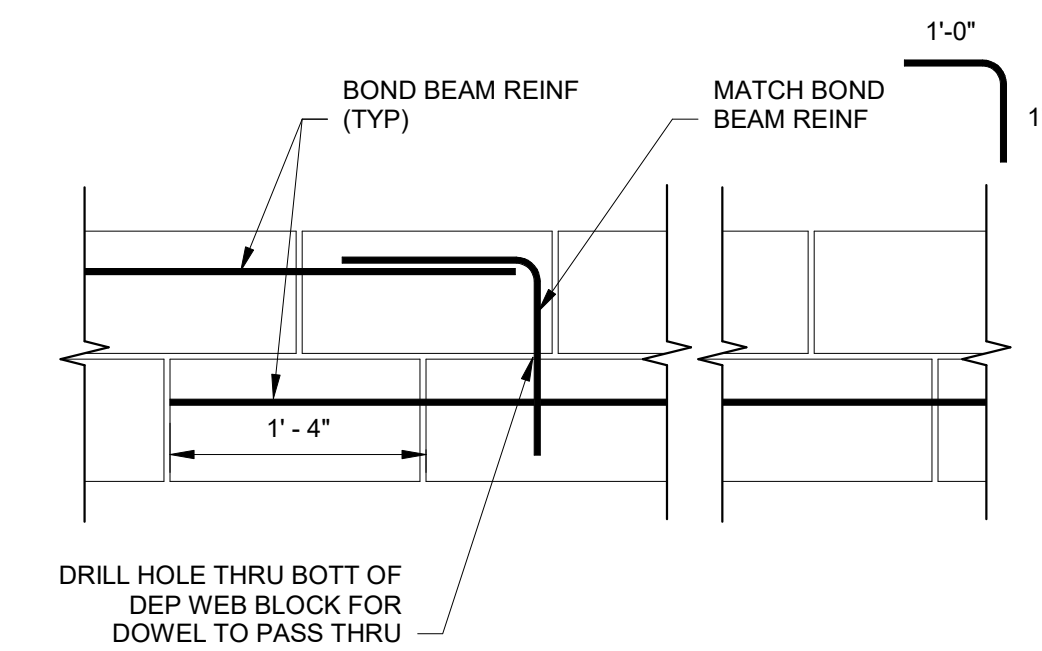
NOT TO SCALE



**CMU PART W/ DEPR SLAB @ SLAB ON GRADE**

**TYPICAL THICKENED SLAB UNDER NON-LOAD BEARING CMU WALL - SECTION**

NOT TO SCALE

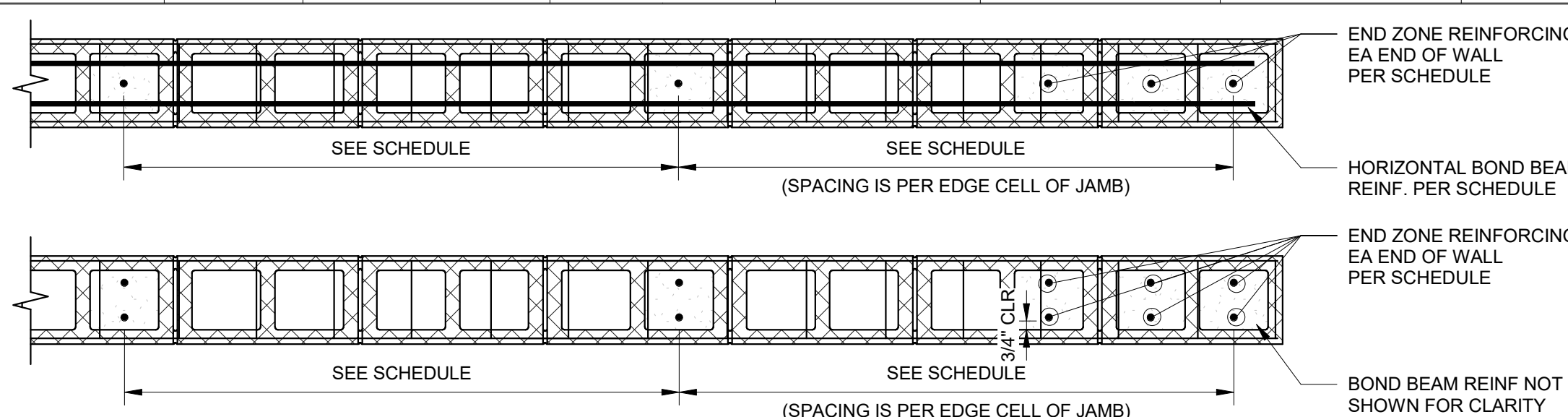


**TYPICAL STEP IN MASONRY BOND BEAM**

SCALE: 1" = 1'-0"

5  
S4.1

CMU WALL SCHEDULES								
LOCATION	NOMINAL THICKNESS	LEVEL	BLOCK STRENGTH	f <sub>m</sub>	VERTICAL REINFORCING	HORIZONTAL REINFORCING	T/WALL BENT PLATE SPACING (SEE S4.4)	END ZONE REINF
TYPICAL WALL EXTERIOR	8"	ALL LEVELS	2000 PSI	2000 PSI	(1)-#5 @ 40" OC	SEE SECTIONS & DETAILS	48"	N/A
INTERIOR CENTER STAIR WALLS	8"	FULL HEIGHT	2000 PSI	2000 PSI	(1)-#6 @ 16" OC	SEE SECTIONS & DETAILS	48"	N/A
INTERIOR 8-SW1	8"	ALL LEVELS	2000 PSI	2000 PSI	(1)-#5 @ 48" OC	SEE SECTIONS & DETAILS	40"	(3)- CELLS REINF W/ (1)-#5
EXTERIOR 8-SW1	8"	SEE TYPICAL WALL EXTERIOR	2000 PSI	2000 PSI	(1)-#6 @ 40" OC	SEE SECTIONS & DETAILS	40"	(3)- CELLS REINF W/ (1)-#5
12-FW1	12"	FULL HEIGHT	2000 PSI	2000 PSI	(2)-#6 @ 32" OC EF	SEE SECTIONS & DETAILS	N/A	N/A
EXTERIOR STAIR NO. 4 & 5 WALLS	12"	FULL HEIGHT	2000 PSI	2000 PSI	(2)- #6 @ 24" OC EF	SEE SECTIONS & DETAILS	32"	N/A
EXTERIOR STAIR NO. 4 SOUTH WALL	8"	FULL HEIGHT	2000 PSI	2000 PSI	(1)- #6 @ 32" OC	SEE SECTIONS & DETAILS	48"	N/A
EXTERIOR BAND WALLS	8"	FULL HEIGHT	2000 PSI	2000 PSI	(1)- #6 @ 40" OC	SEE SECTIONS & DETAILS	48"	N/A



**PLAN DETAILS**

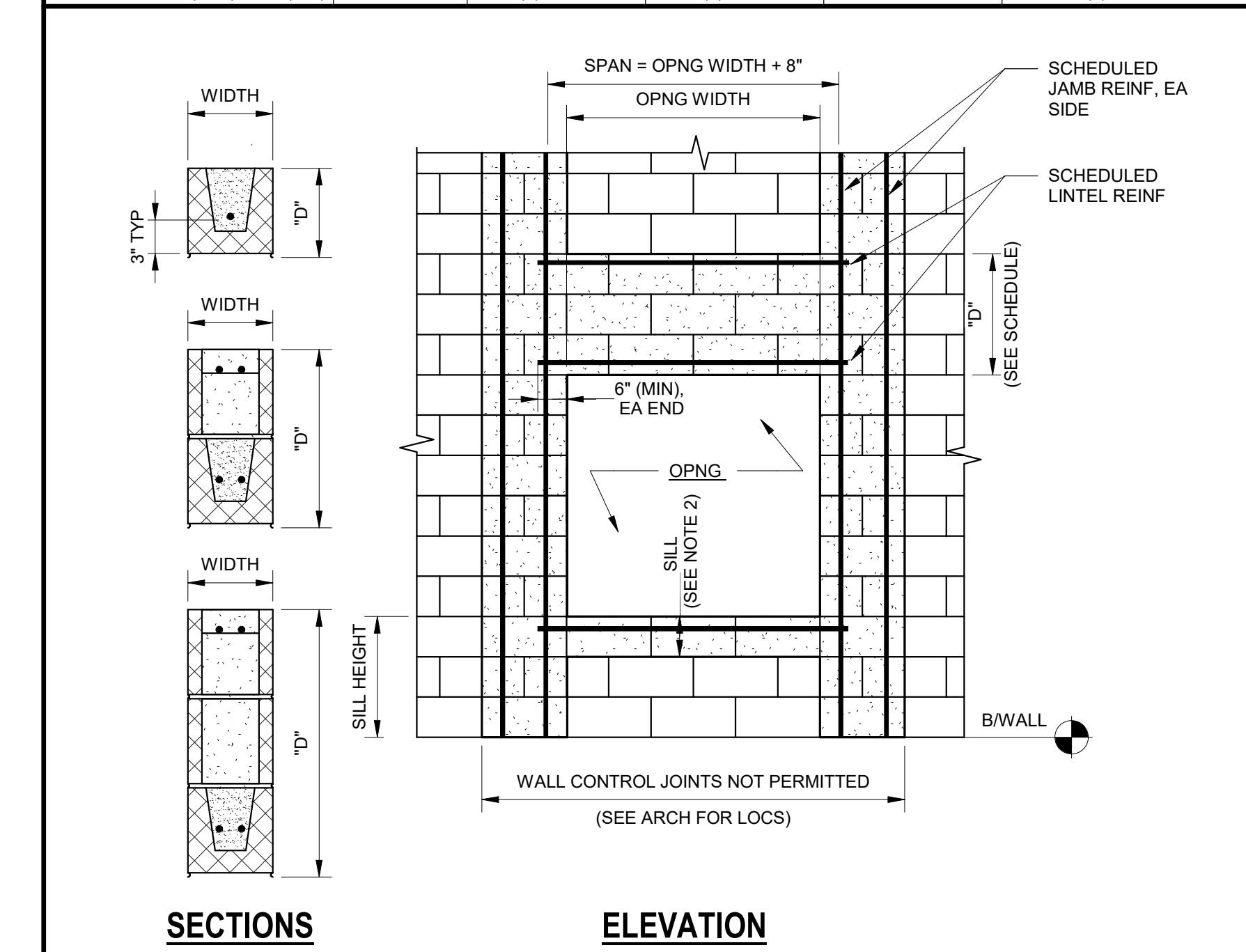
- NOTES:**
- SEE 1/54.2 & 2/54.2 FOR V1, V2, H1 & H2 LAYOUT REQUIRED FOR SHEAR WALL ELEVATIONS.
  - SEE 3/54.1 FOR TYPICAL MASONRY WALL TO STEEL COLUMN CONNECTION
  - MASONRY WALL CONTROL JOINTS (SEE ARCH FOR SPECIFIC LOCATIONS) SHALL NOT OCCUR WITHIN SHEAR WALLS, OR WITHIN OR BETWEEN REINFORCED JAMB CELLS OR AT LINTEL (TYP UNO)
  - SEE 3A, 3B & 4/54.2 FOR ALLOWABLE SHEAR WALL PENETRATION LOCATIONS.
  - IN ADDITION TO BOND BEAMS REQ'D PER SCHEDULE, PROVIDE BOND BEAMS PER SECTIONS. PROVIDE BOND BEAM REINF W/ (2)-#5 IN GROUT FILL W/ BOND BEAM (1) COURSE ABOVE CEILING ADJACENT TO WALL (TYP @ ALL SHEAR WALLS WHERE BOND BEAMS NOT REQ'D PER SCHEDULE.)
  - SEE CONCRETE MASONRY NOTES AND RELEVANT SECTIONS AND DETAILS FOR ADDITIONAL REINFORCING AND REQUIREMENTS NOT SHOWN IN THIS SCHEDULE.
  - HEIGHT = UNBRACED WALL HEIGHT (DISTANCE FROM TOP OF FOOTING TOP OF WALL OR TOP OF WALL CONNECTION TO FLOOR/ROOF BEAM OR DECK EDGE ANGLE, OR DISTANCE BETWEEN LOW & HIGH ROOF BEAMS).
  - SEE 4/54.1 FOR REINFORCING FOR INTERIOR NON-LOAD BEARING CMU PARTITION WALLS ON SLABS-ON-GRADE (SEE ARCH FOR WALL TYPES & HEIGHTS).
  - SEE 2/54.4 & 3/54.4 FOR TYPICAL BRACING AT TOP OF INTERIOR NON LOAD BEARING CMU PARTITION WALLS.
  - SEE 1/54.1 & 2/54.1 & 3/54.1 FOR TYPICAL CMU REINFORCING AT CONTROL JOINTS, CORNERS & INTERSECTIONS, AND COLUMNS.
  - CMU WALLS SHALL BE GROUTED SOLID WHERE CONNECTIONS ARE REQUIRED FOR CANOPIES.
  - INTERIOR NON-LOAD BEARING CMU PARTITIONS ON ELEVATED SLABS SHALL BE REINFORCED W/ #5 @ 48" OC. VERTICAL DOWELS SHALL BE DRILLED & EPOXED 3" INTO ELEVATED SLAB (SEE POST-INSTALLED ANCHORS SCHEDULE FOR REQUIRED EPOXY ADHESIVE).

**CMU WALL REINFORCING SCHEDULE**

SCALE: 1" = 1'-0"

6  
S4.1

CONCRETE MASONRY UNIT LINTEL & JAMB SCHEDULE					
SPAN	LINTEL DEPTH "D"	LINTEL REINFORCING			JAMB REINFORCING (SEE NOTE 5)
		6" WALL	8" WALL	12" WALL	
≤ 4'-0"	8"	(1) - #5	(1) - #5	(1) - #5	(2) - CELLS
> 4'-0" TO ≤ 6'-4"	16"	(1) - #5	(2) - #4	(2) - #4	(3) - CELLS
> 6'-4" TO ≤ 7'-4" (EXT); 9'-6" (INT)	24"	(1) - #5	(2) - #5	NA	(4) - CELLS



**CONCRETE MASONRY UNIT LINTEL & JAMB SCHEDULE**

- NOTES:**
- LINTELS SHALL BE CONSTRUCTED WITH U-BLOCKS AT THE BOTTOM AND DEPRESSED WEB BLOCKS ABOVE AND SHALL BE FULLY GROUTED.
  - SILL REINFORCING REQUIREMENTS:
    - OPENING WIDTH ≤ 6'-0" AND SILL HEIGHT ≤ 3'-0": SILL REINFORCING NOT REQUIRED.
    - OPENING WIDTH > 6'-0" OR SILL HEIGHT > 3'-0": PROVIDE REINFORCED LINTEL ACCORDING TO SCHEDULE.
  - NOTIFY STRUCTURAL ENGINEER OF RECORD IF OPENING WIDTH EXCEEDS SCHEDULED WIDTHS.
  - SEE CONCRETE MASONRY GENERAL NOTES AND RELEVANT SCHEDULES, SECTIONS, AND DETAILS FOR ADDITIONAL REINFORCING AND REQUIREMENTS NOT SHOWN IN THIS SCHEDULE.
  - PROVIDE (1) BAR PER CELL IN JAMBS, TYPICAL. WHERE SCHEDULED JAMB REINFORCING EXCEEDS THE NUMBER OF CELLS, PROVIDE (2) BARS PER CELL LOCATED 3/4" CLEAR FROM EACH FACE SHELL.

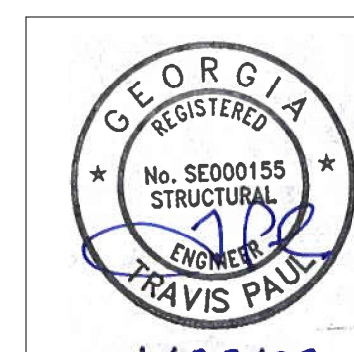
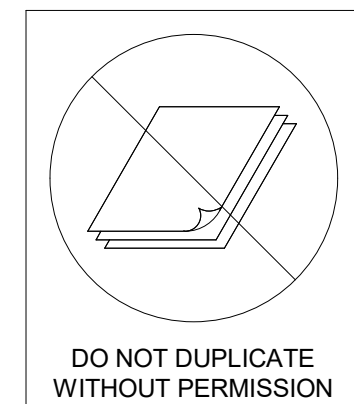
**CMU LINTEL & JAMB REINFORCING SCHEDULE**

NOT TO SCALE

7  
S4.1

**PES STRUCTURAL ENGINEERS**

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PES GEORGIA COA NUMBER: PEF000799  
EXPIRATION DATE: 06/30/2022



**NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION**  
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FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
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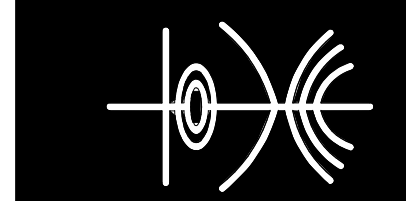
FACILITY CODE 667-4556

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S4.1

1/28/22

DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
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11/1/2021	DOE Final	
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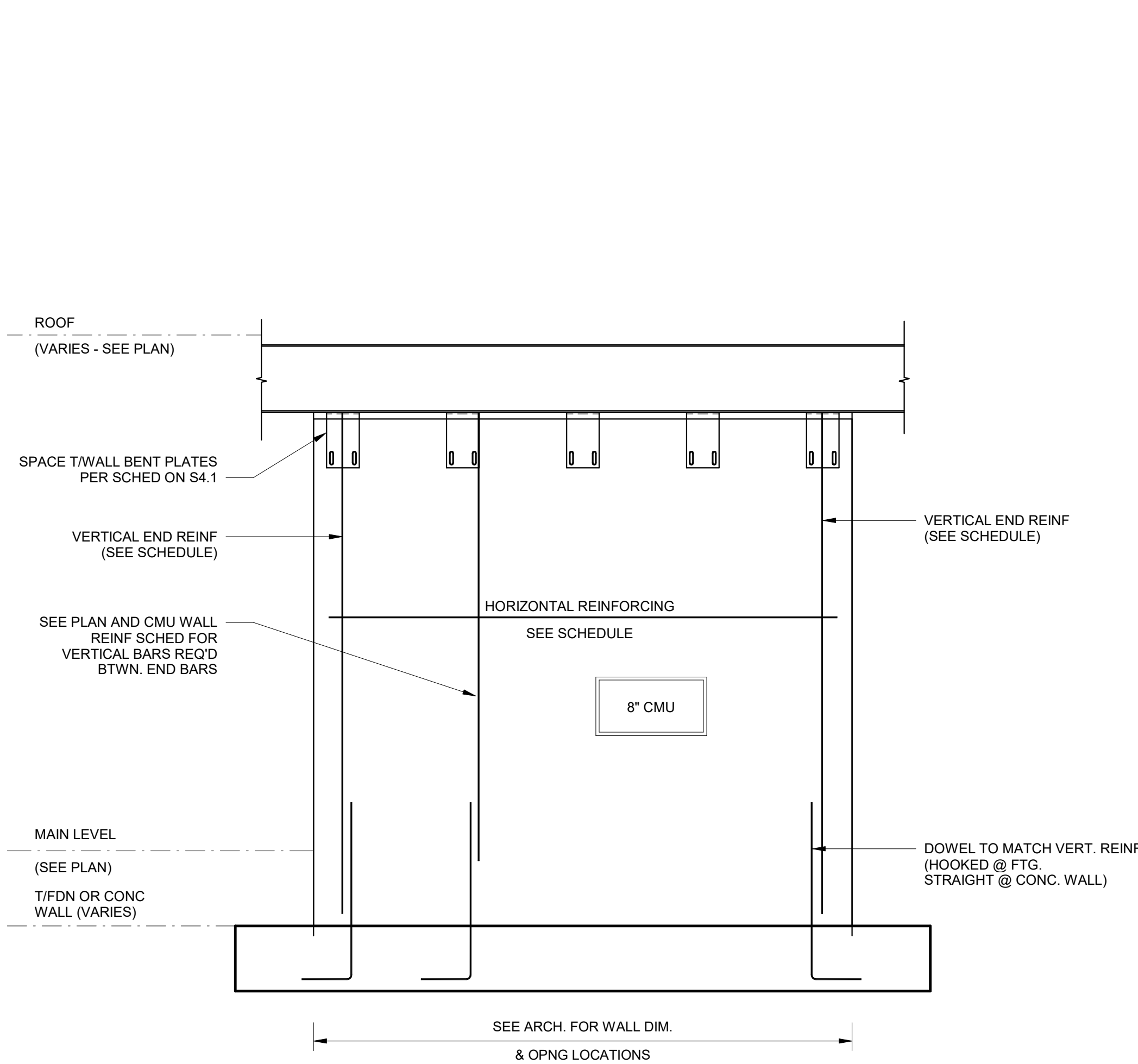
ISSUE DATE

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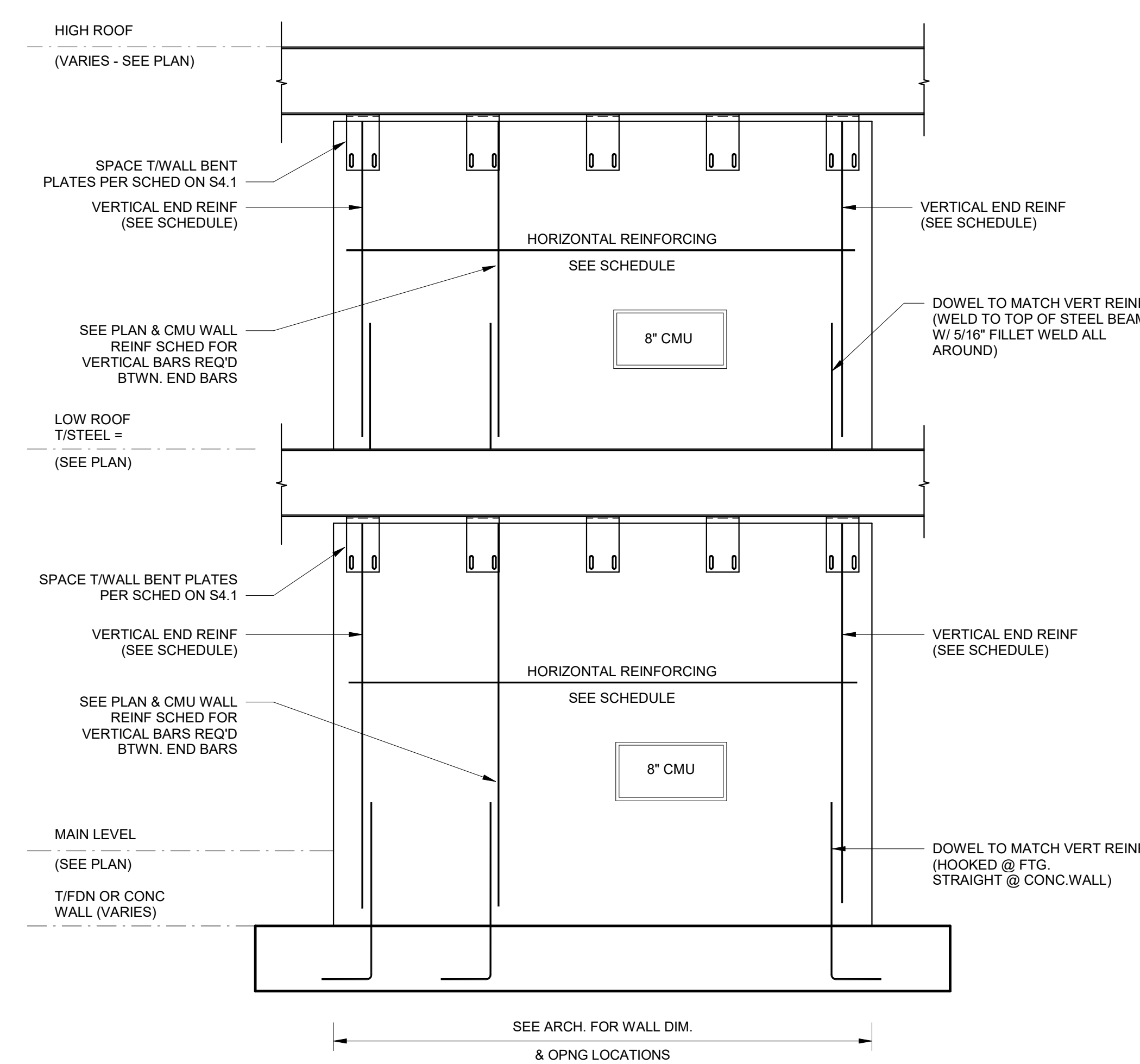
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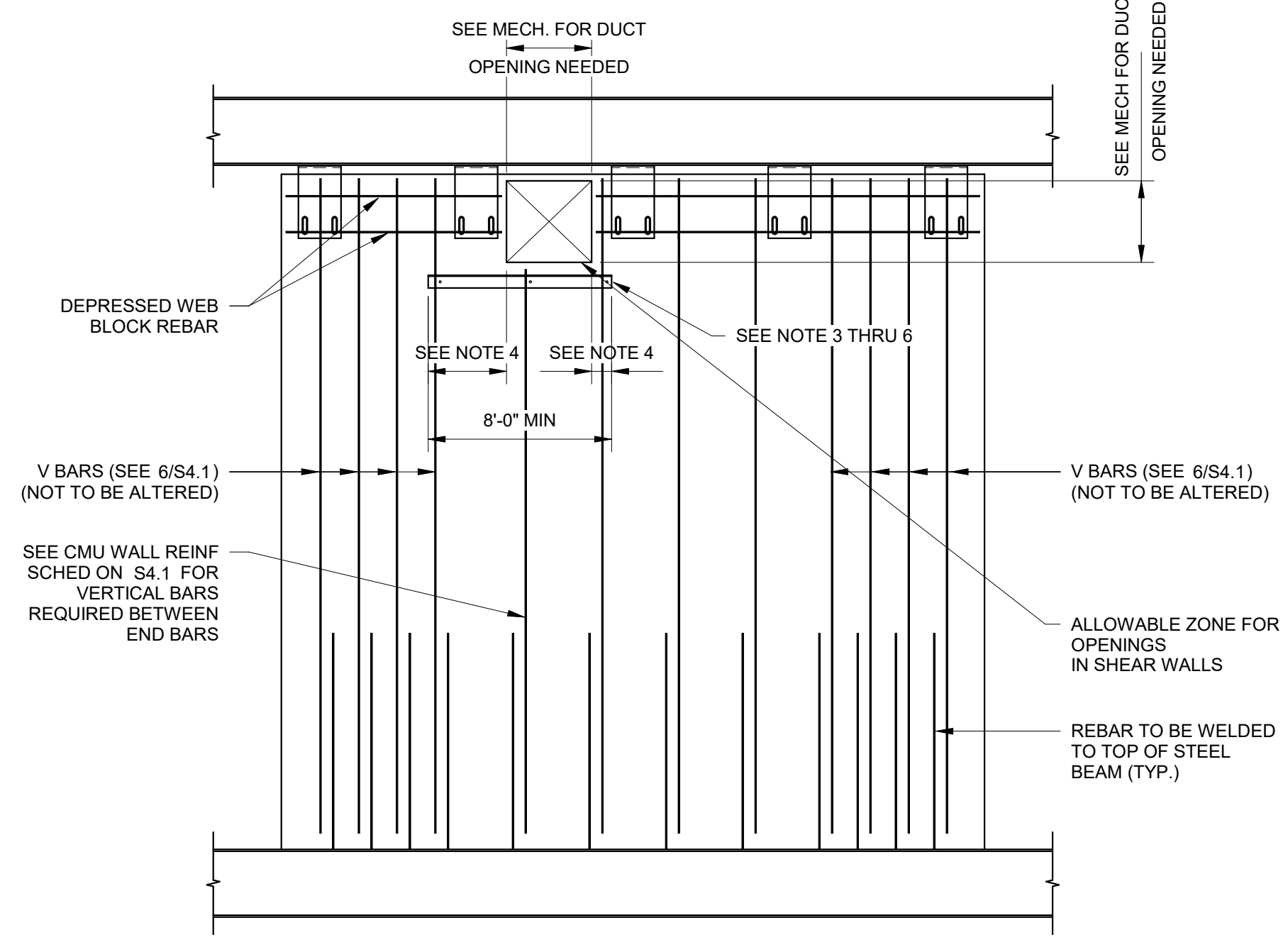
**TYPICAL ONE-STORY SHEAR WALL WALL ELEVATION**  
 NOT TO SCALE

1  
S4.2



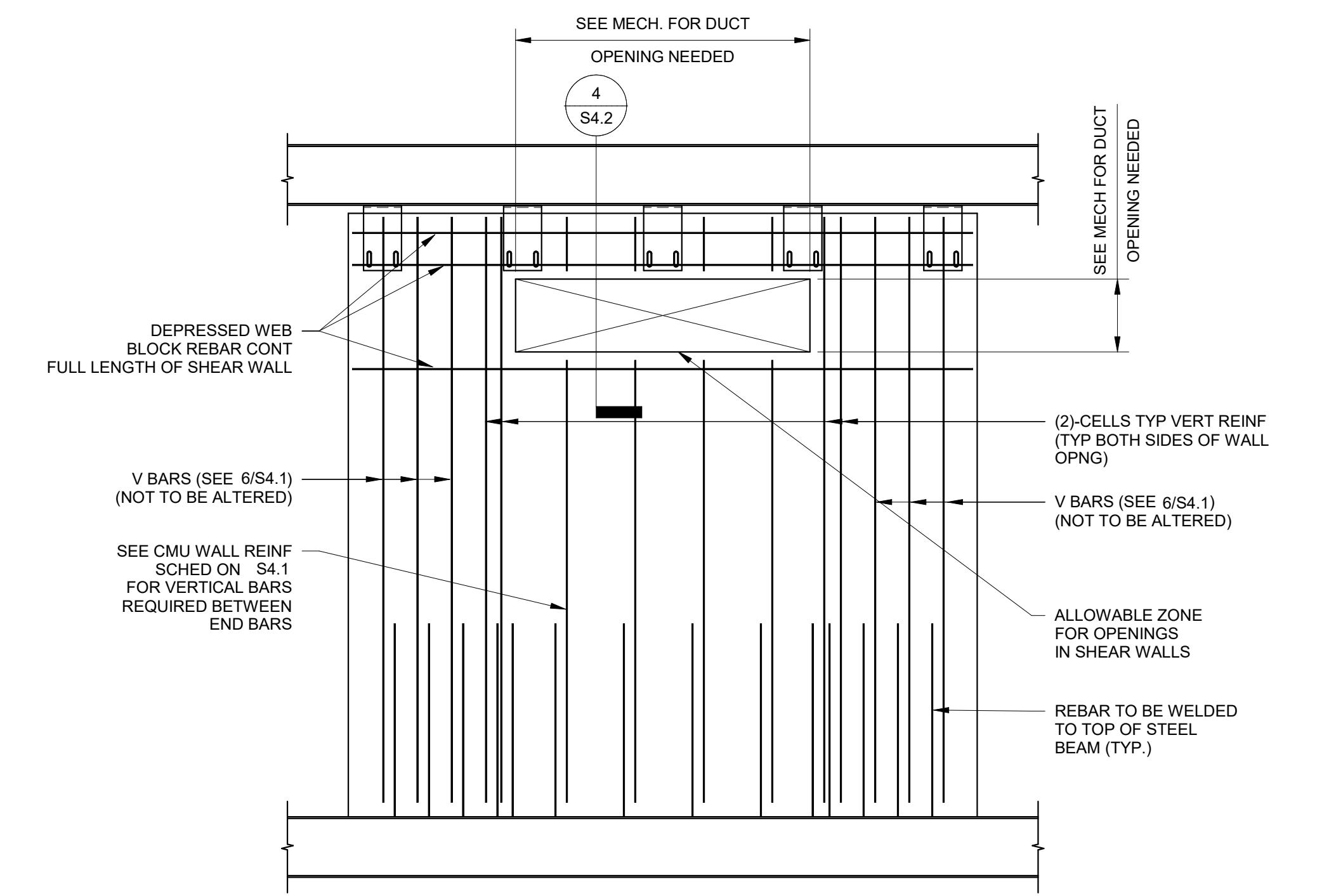
**TYPICAL SHEAR WALL ELEVATION W/ MULTIPLE MID-HEIGHT BEAMS**  
 SCALE: 3/8" = 1'-0"

2  
S4.2



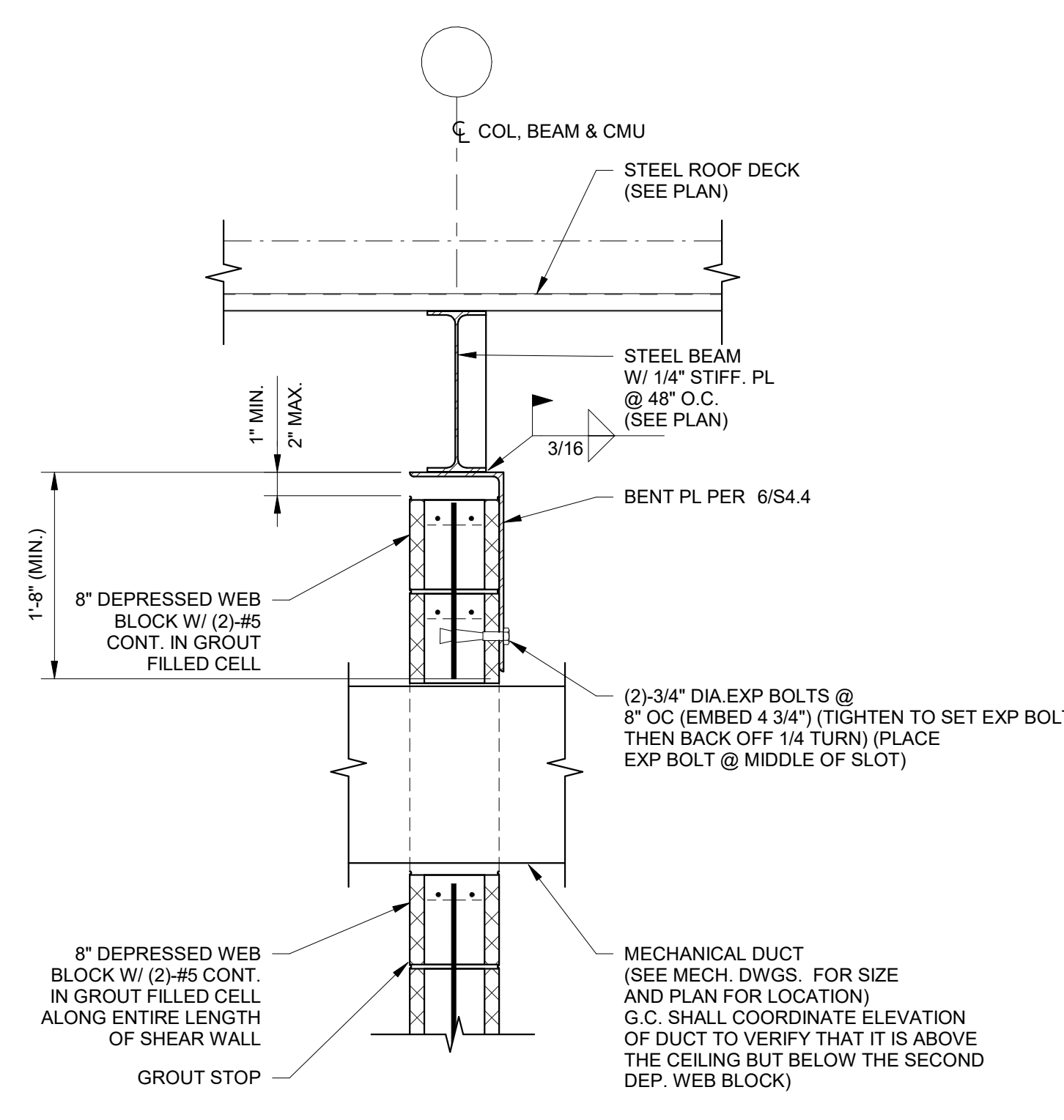
**TYPICAL ALLOWABLE SHEAR WALL PENETRATIONS WHEN PENETRATIONS ARE IN TOP TWO CMU COURSES OF WALL**  
 SCALE: 3/8" = 1'-0"

3A  
S4.2



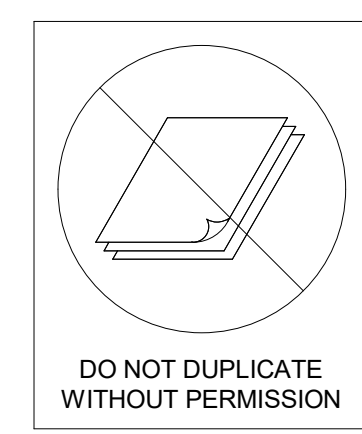
**TYPICAL ALLOWABLE SHEAR WALL PENETRATIONS**  
 SCALE: 3/8" = 1'-0"

3B  
S4.2



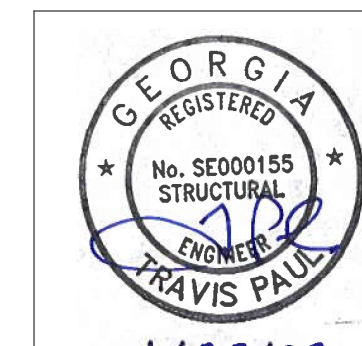
**SECTION**  
 SCALE: 1" = 1'-0"

4  
S4.2



**PES STRUCTURAL ENGINEERS**

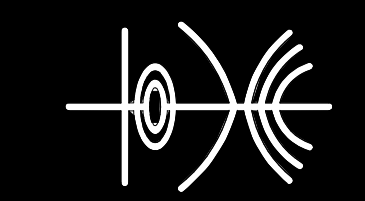
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 PHONE 770-457-5923 FAX 770-457-5999 WEB www.pesengineers.com  
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 PES GEORGIA COA NUMBER: PEF000799  
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S4.2

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
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11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
12/16/21	Addendum No. 2	1
1/28/22	CONFORMED SET	



**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE Issue Date

APP. NO. SHL-001-21

DES. BY RAS

CHECK BY ABS

DATE Issue Date

APP. NO. SHL-001-21

DES. BY RAS

CHECK BY ABS

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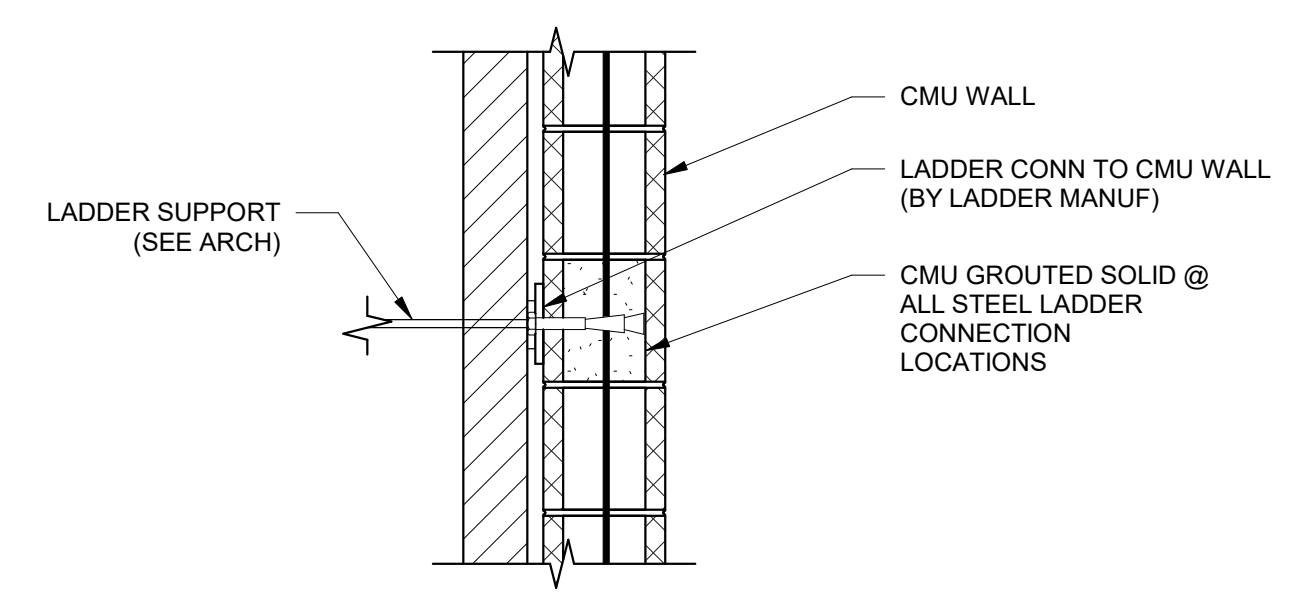
DATE Issue Date

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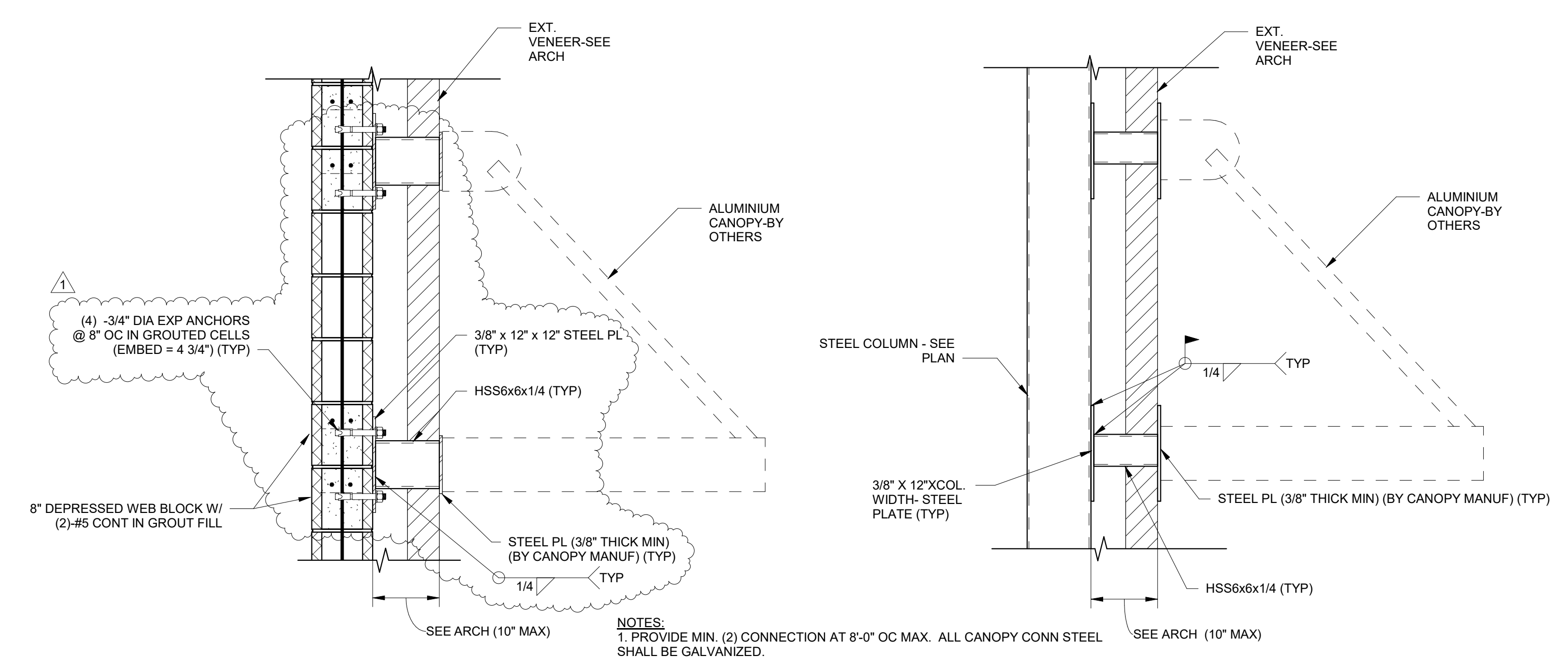
DES. BY RAS

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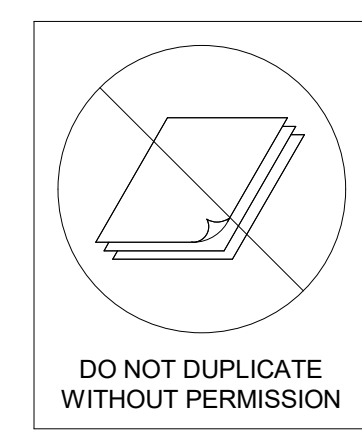


**ACCESS LADDER SUPPORT DETAIL**  
 SCALE: 1" = 1'-0"  
 1  
 S4.3



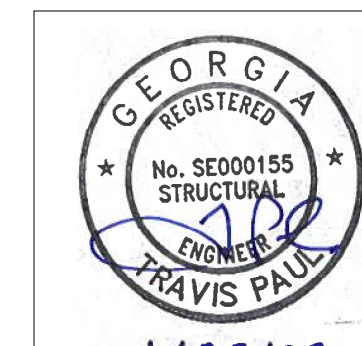
**TYPICAL ALUMINUM CANOPY DETAIL @ CMU WALL/STEEL COLUMN**  
 SCALE: 1" = 1'-0"  
 5  
 S4.3

NOTES:  
 1. PROVIDE MIN. (2) CONNECTION AT 8'-0" OC MAX. ALL CANOPY CONN STEEL SHALL BE GALVANIZED.  
 2. FINAL CANOPY CONNS TO STRUCTURE SHALL BE COORDINATED W/ FINAL SELECTED CANOPIES PRIOR TO FABRICATION OR INSTALLATION.



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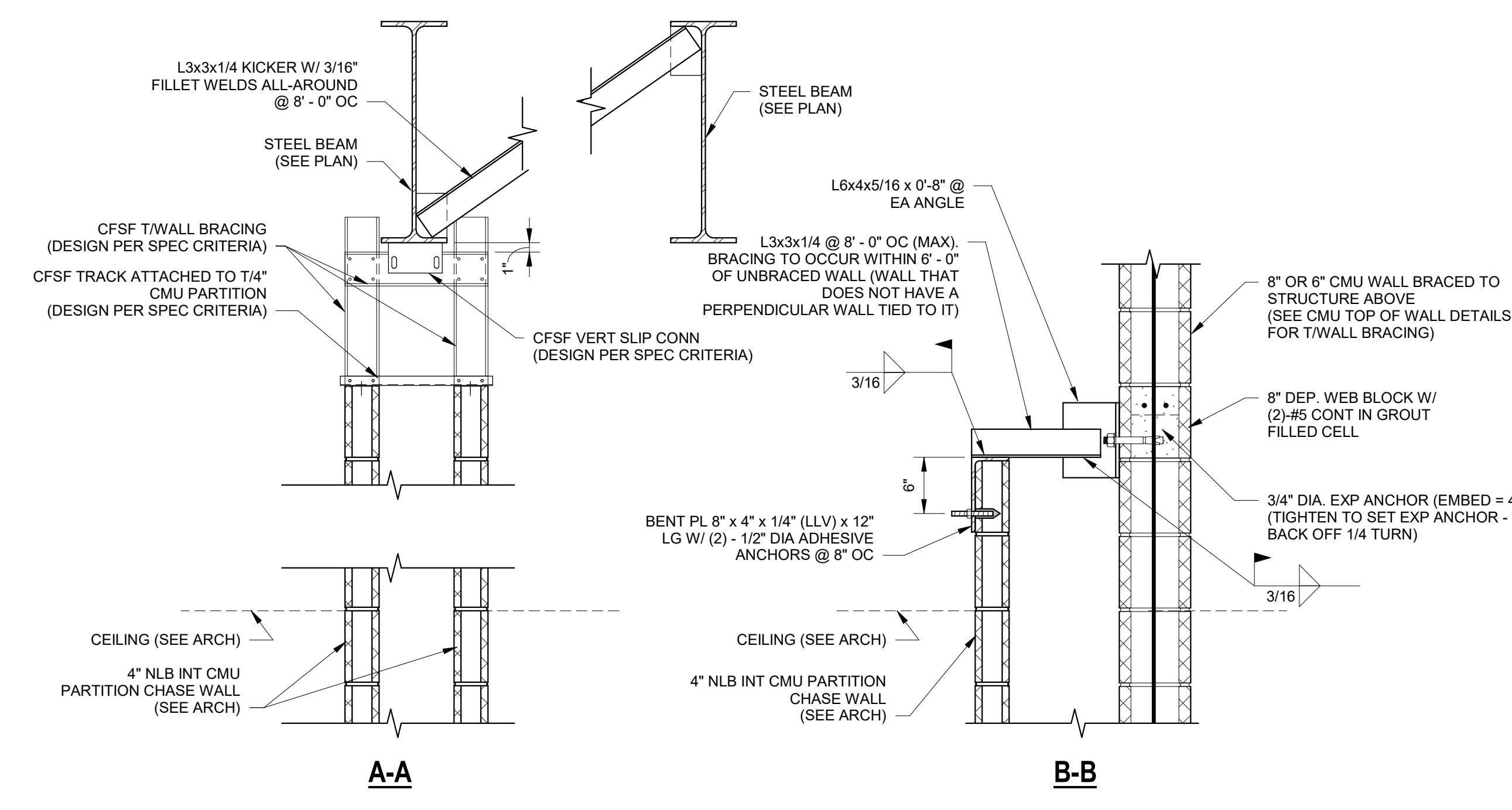
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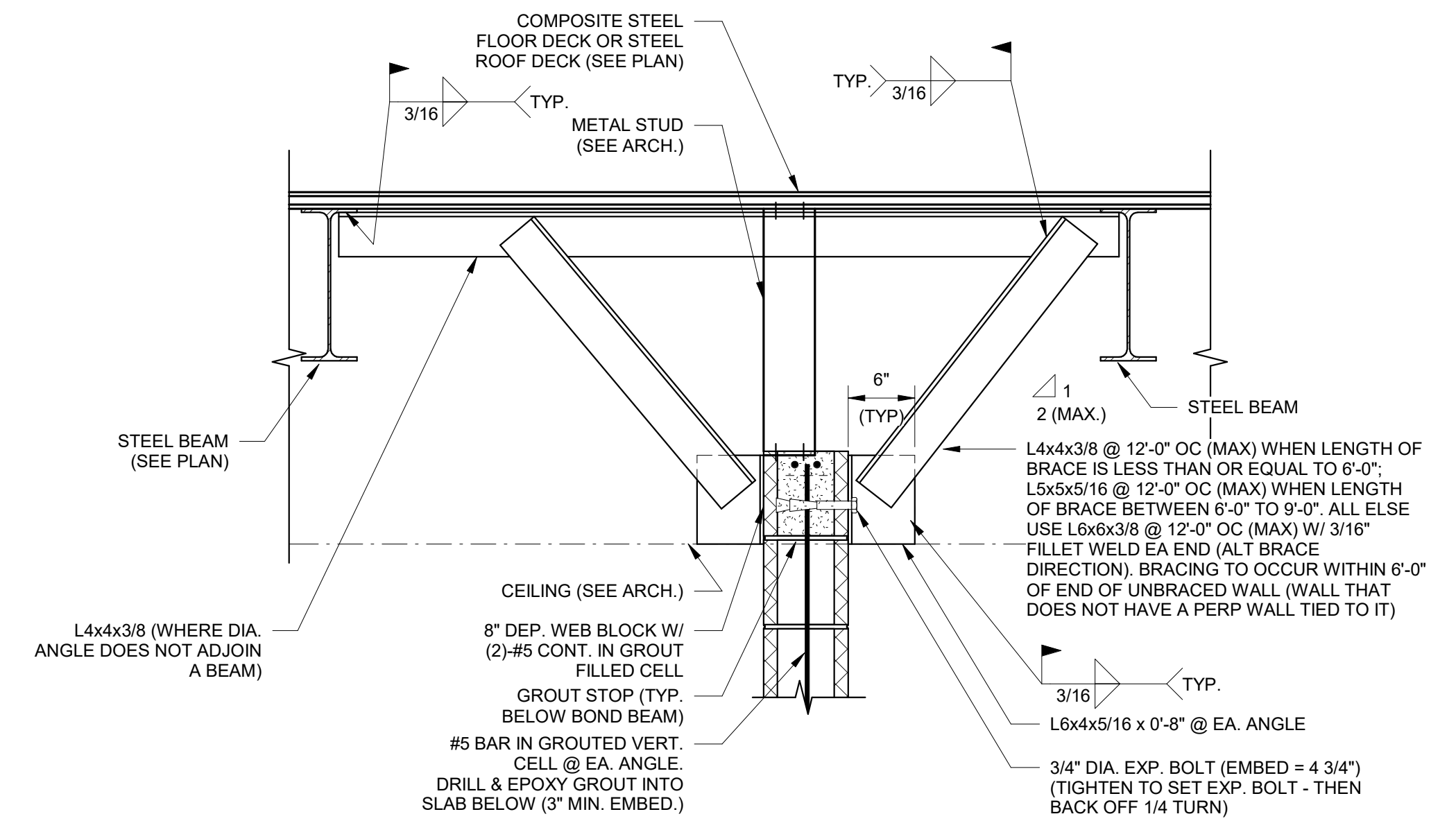
S4.3

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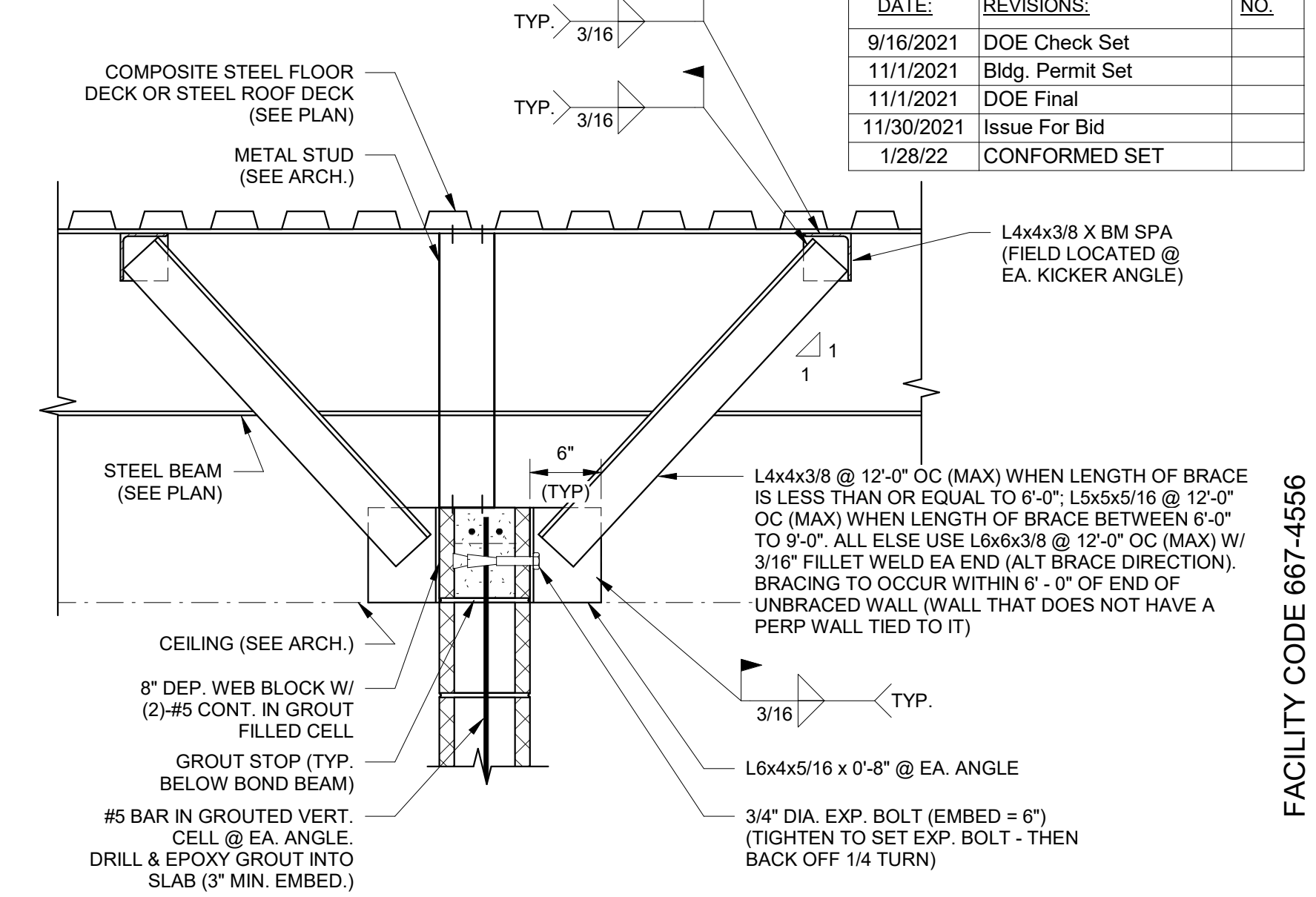
**TYPICAL 4" NLB CHASE CMU WALL TOP OF WALL BRACING**

- NOTES:
- DETAIL A-A APPLIES WHERE T1/4" CMU CHASE WALL LOCATED ON EA SIDE OF BRACE BRACE. DETAIL B-B APPLIES WHERE T1/4" CMU CHASE WALL STOPS JUST ABOVE CEILING AND ADJACENT 6" OR 8" CMU WALL IS CONTINUOUS TO STRUCTURE ABOVE.



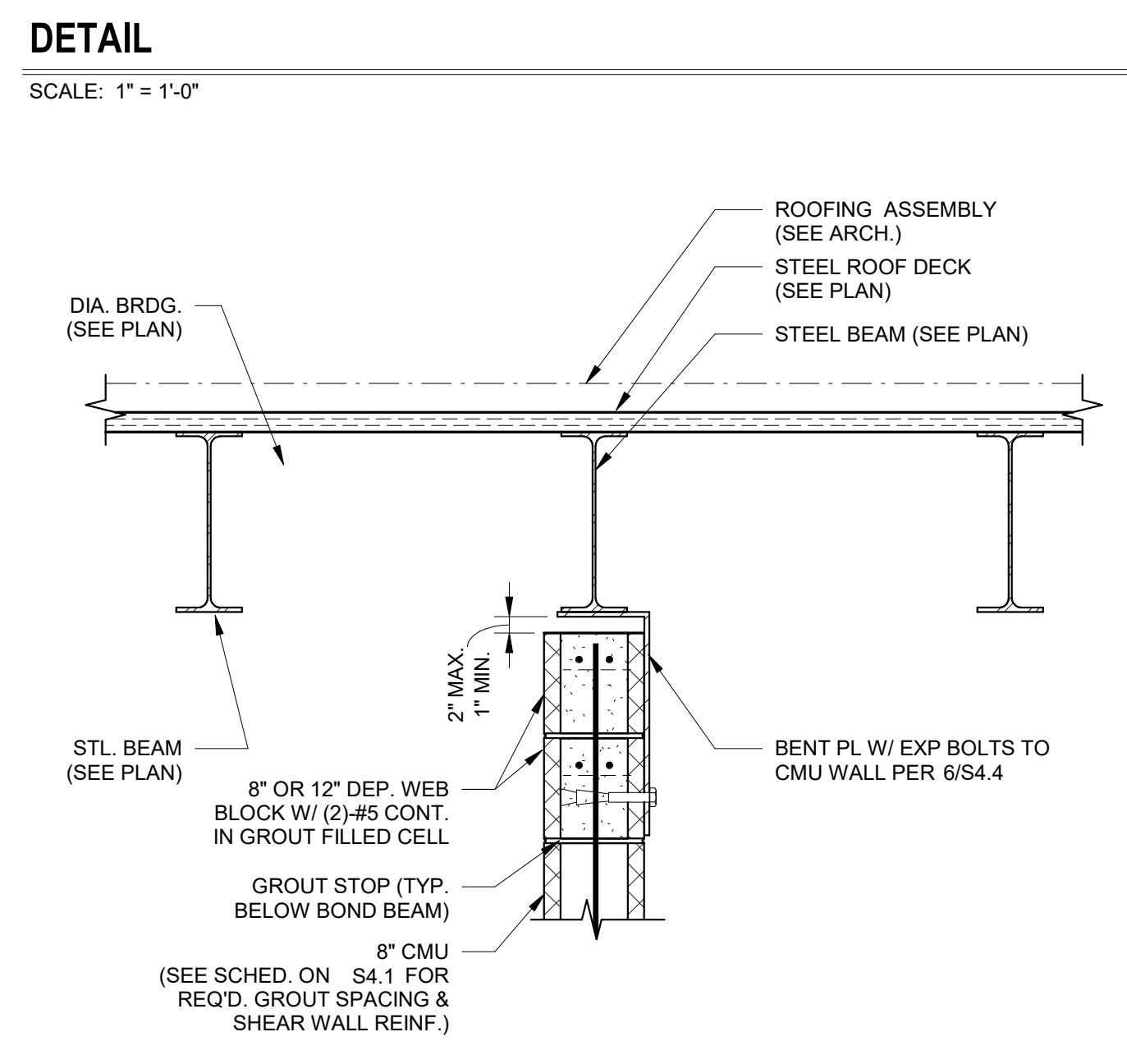
**TYP. INTERIOR CMU WALL TOP SUPPORT FOR UNSUPPORTED WALL HORIZ. LENGTHS EXCEEDING 20' AT 8" CMU WALLS AND EXCEEDING 12' AT 6" CMU WALLS**

- NOTES:
- "UNSUPPORTED" LENGTH IS THE HORIZONTAL DISTANCE FROM ONE INTERSECTING CMU WALL JOINED W/ JOINT REINF PER 2/S4.1, TO THE NEXT, WHERE CONTROL JOINT SEPARATES THE INTERSECTING WALL, THE INTERSECTING WALL IS NOT CONSIDERED A SUPPORT.
  - DETAIL TO BE USED FOR:
    - ALL INTERIOR NON-LOAD BEARING CMU WALLS ON SLABS-ON-GRADE OF THE LENGTHS LISTED.
    - AT ALL INTERIOR NON-LOAD BEARING CMU WALLS ON ELEVATED SLABS OF THE LENGTHS LISTED.



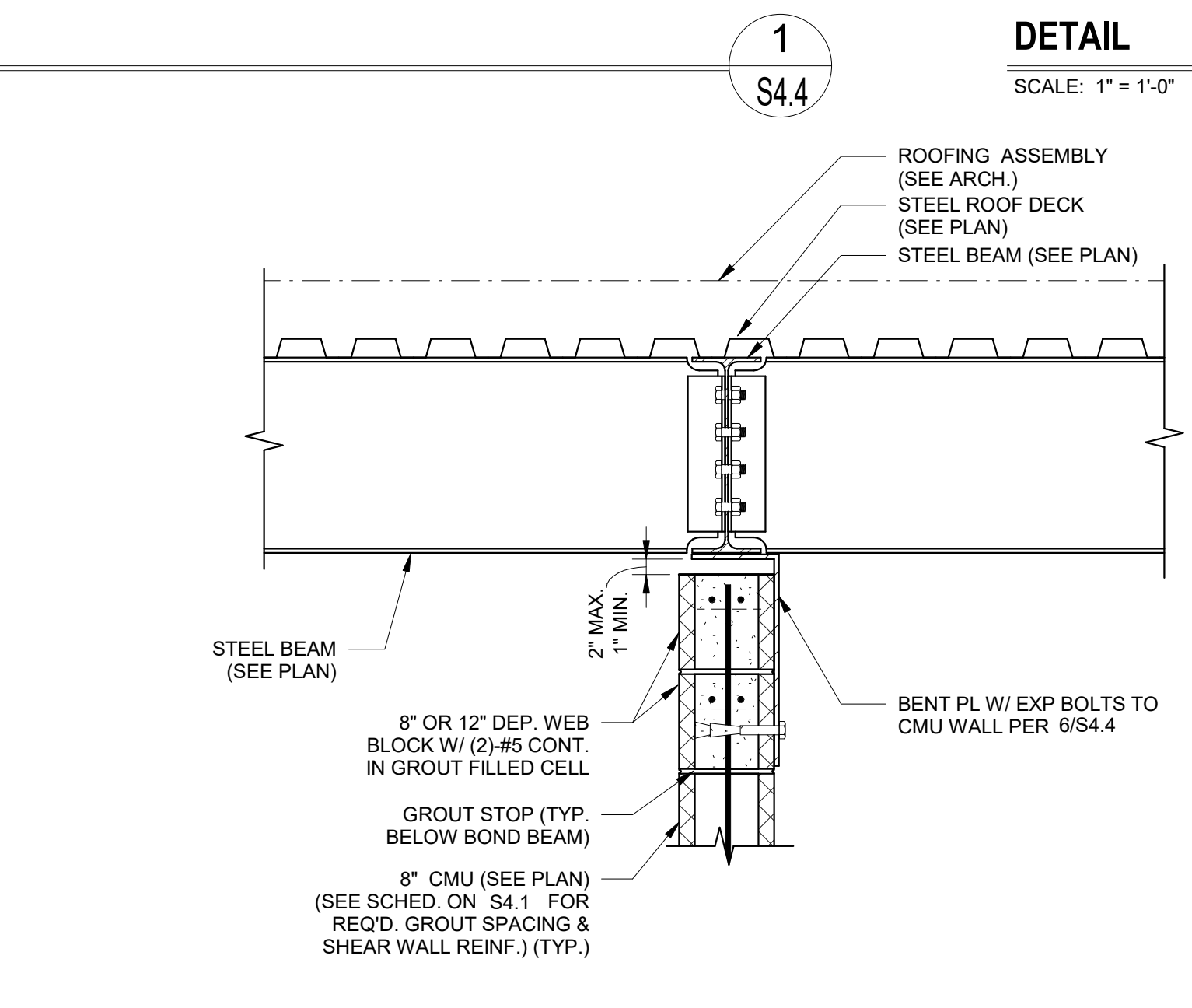
**TYP. INTERIOR CMU WALL TOP SUPPORT FOR UNSUPPORTED WALL HORIZ. LENGTHS EXCEEDING 20' AT 8" CMU WALLS AND EXCEEDING 12' AT 6" CMU WALLS**

- NOTES:
- "UNSUPPORTED" LENGTH IS THE HORIZONTAL DISTANCE FROM ONE INTERSECTING CMU WALL JOINED W/ JOINT REINF PER 2/S4.1, TO THE NEXT, WHERE CONTROL JOINT SEPARATES THE INTERSECTING WALL, THE INTERSECTING WALL IS NOT CONSIDERED A SUPPORT.
  - DETAIL TO BE USED FOR:
    - ALL INTERIOR NON-LOAD BEARING CMU WALLS ON SLABS-ON-GRADE OF THE LENGTHS LISTED.
    - AT ALL INTERIOR NON-LOAD BEARING CMU WALLS ON ELEVATED SLABS OF THE LENGTHS LISTED.



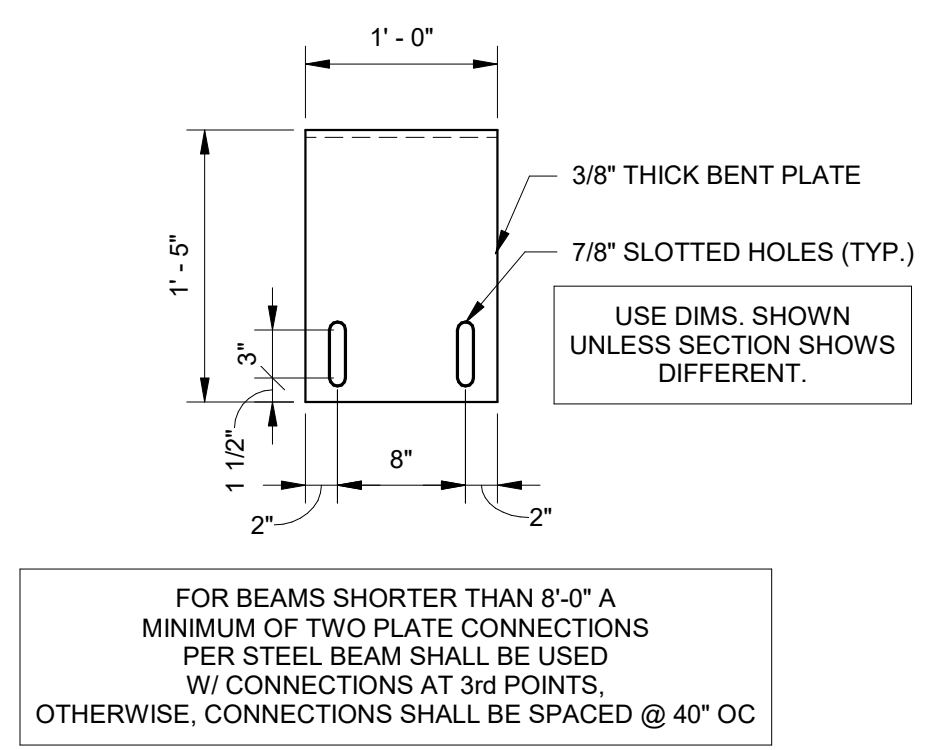
**TYPICAL @ INT CMU SHEAR WALLS**

SCALE: 1" = 1'-0"

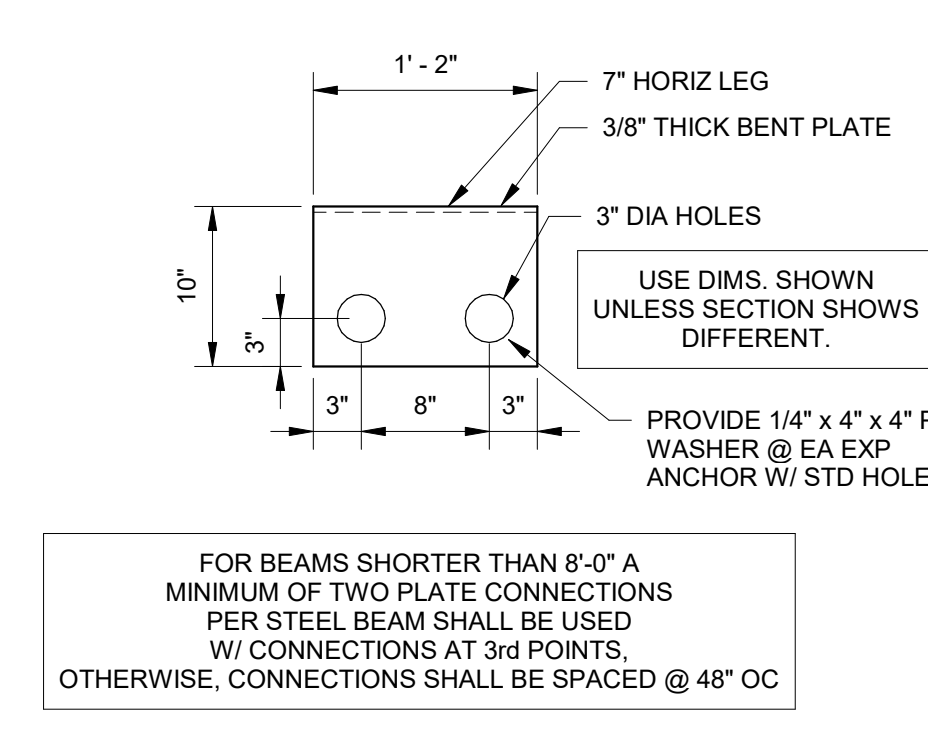


**TYPICAL @ INT CMU SHEAR WALLS**

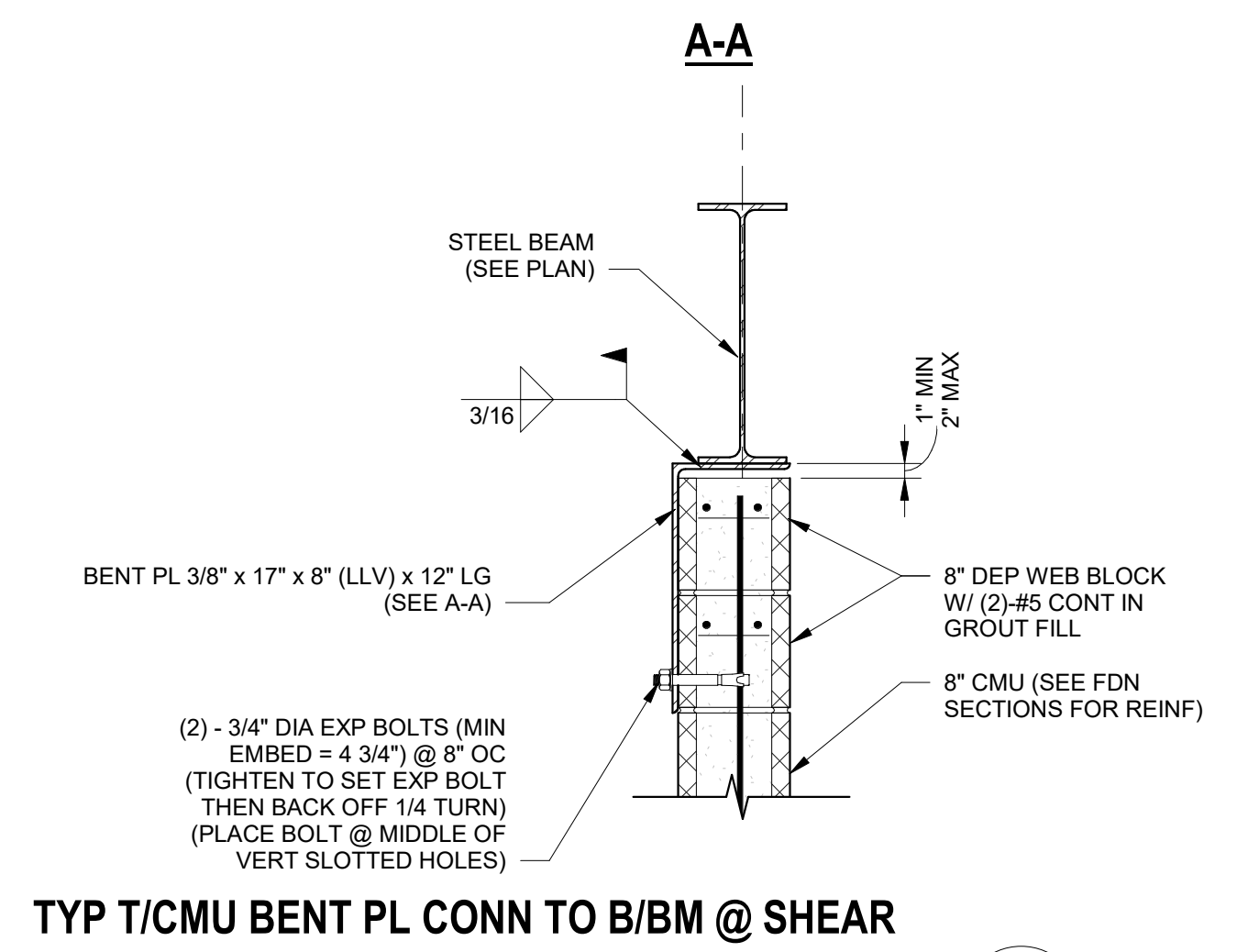
SCALE: 1" = 1'-0"



FOR BEAMS SHORTER THAN 8'-0" A MINIMUM OF TWO PLATE CONNECTIONS PER STEEL BEAM SHALL BE USED W/ CONNECTIONS AT 3rd POINTS. OTHERWISE, CONNECTIONS SHALL BE SPACED @ 40" OC

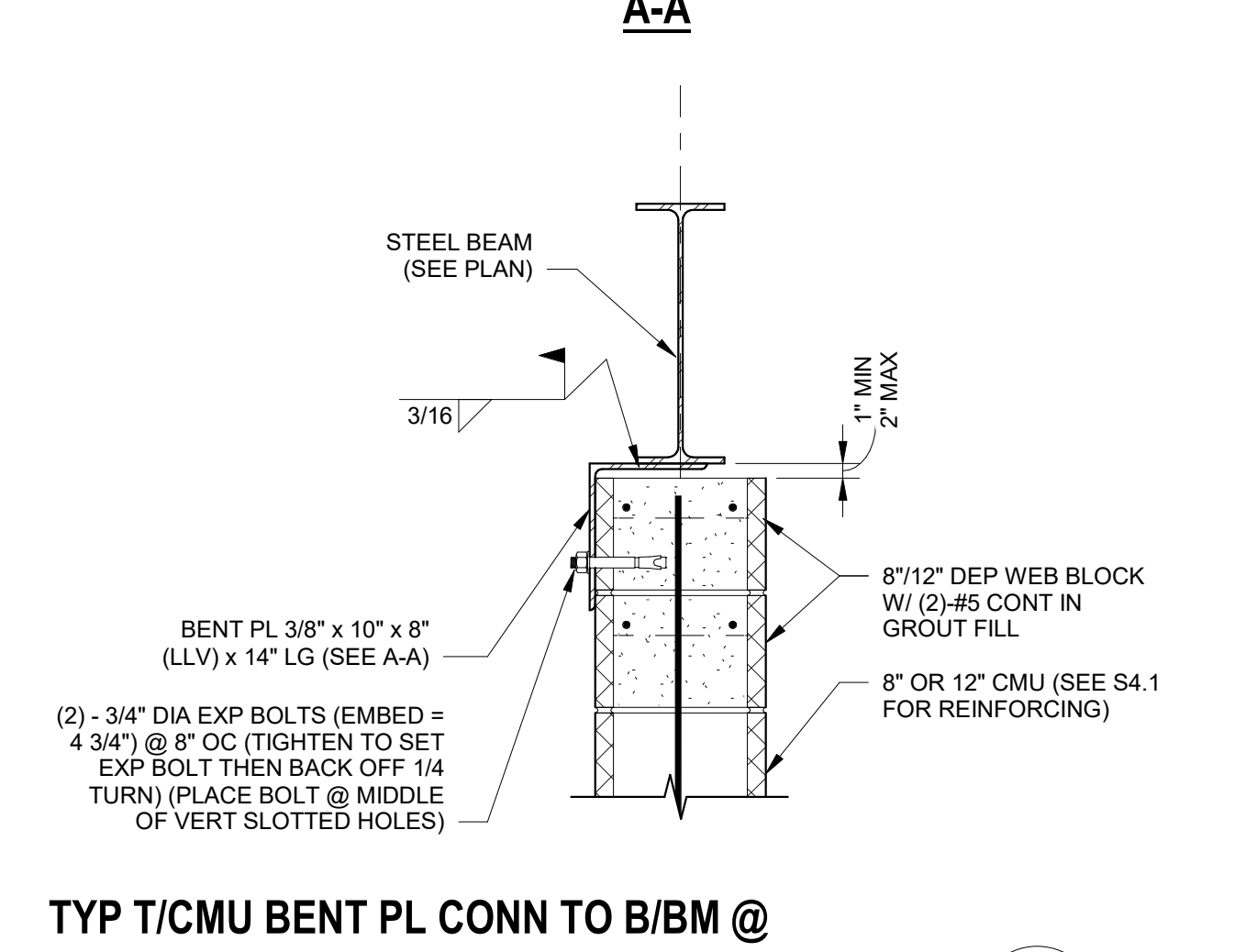


FOR BEAMS SHORTER THAN 8'-0" A MINIMUM OF TWO PLATE CONNECTIONS PER STEEL BEAM SHALL BE USED W/ CONNECTIONS AT 3rd POINTS. OTHERWISE, CONNECTIONS SHALL BE SPACED @ 48" OC



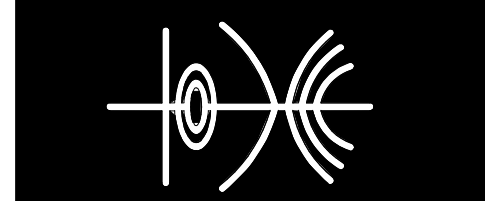
**TYP T/CMU BENT PL CONN TO B/BM @ SHEAR WALLS**

SCALE: 1" = 1'-0"



**TYP T/CMU BENT PL CONN TO B/BM @ EXTERIOR NON-SW'S**

SCALE: 1" = 1'-0"



**NORTH GWINNETT HIGH SCHOOL**  
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 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE: Issue Date

ISSUE NO: SHL-001-21

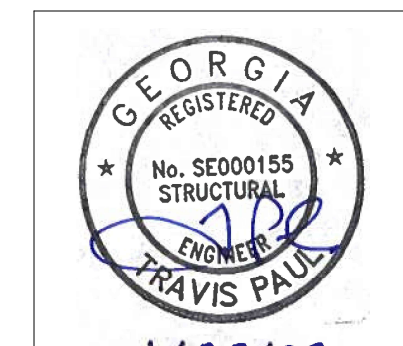
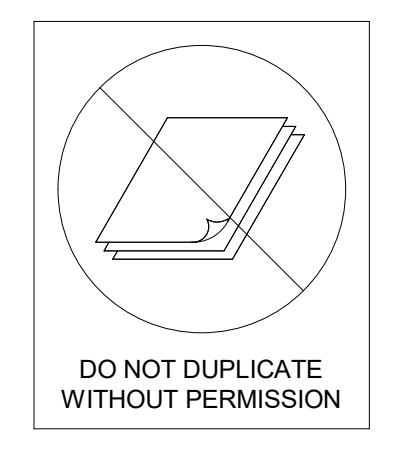
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ISSUE NO: ABS

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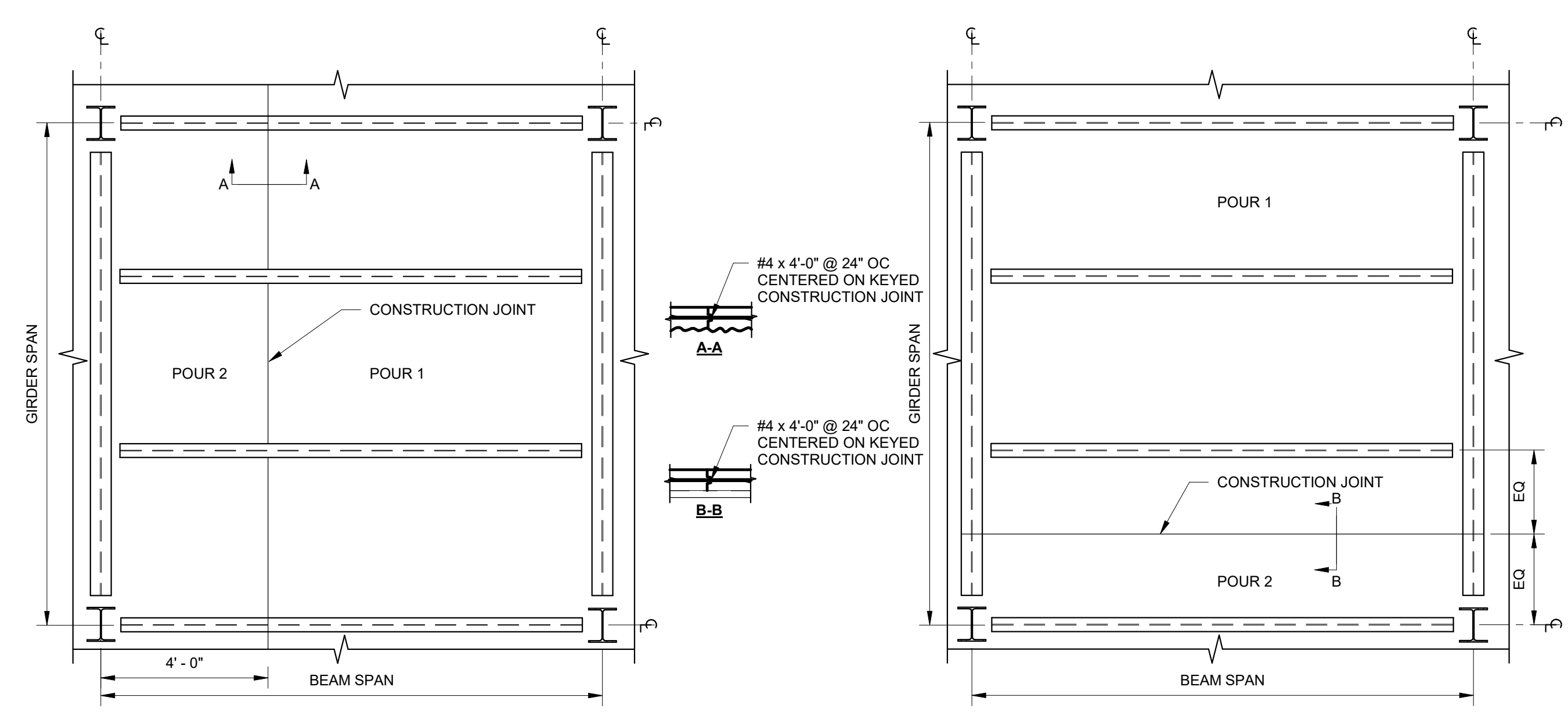
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1/28/22

**S4.4**

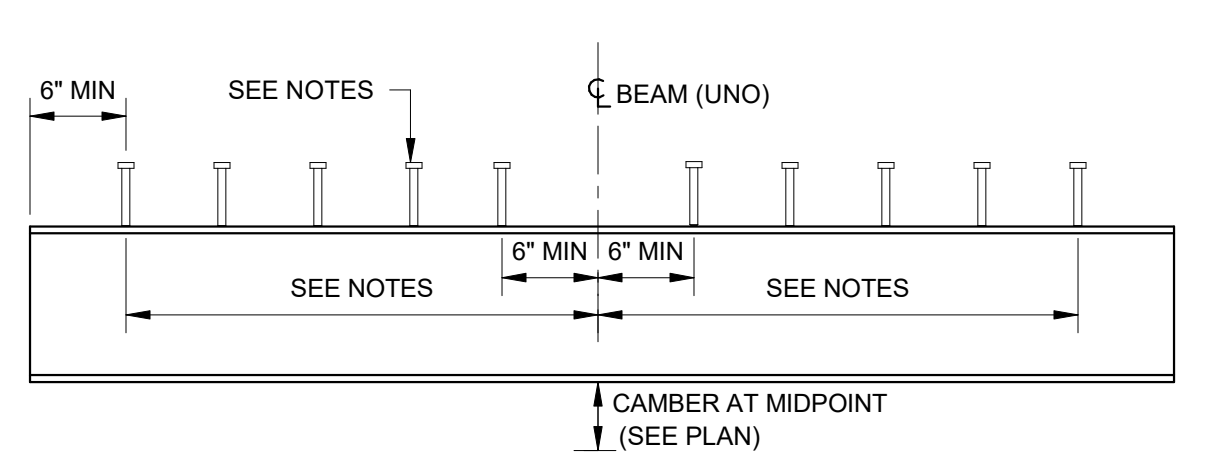
DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
1/28/22	CONFORMED SET	



**COMPOSITE FRAMING CONSTRUCTION JOINT LOCATION - PLAN**

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

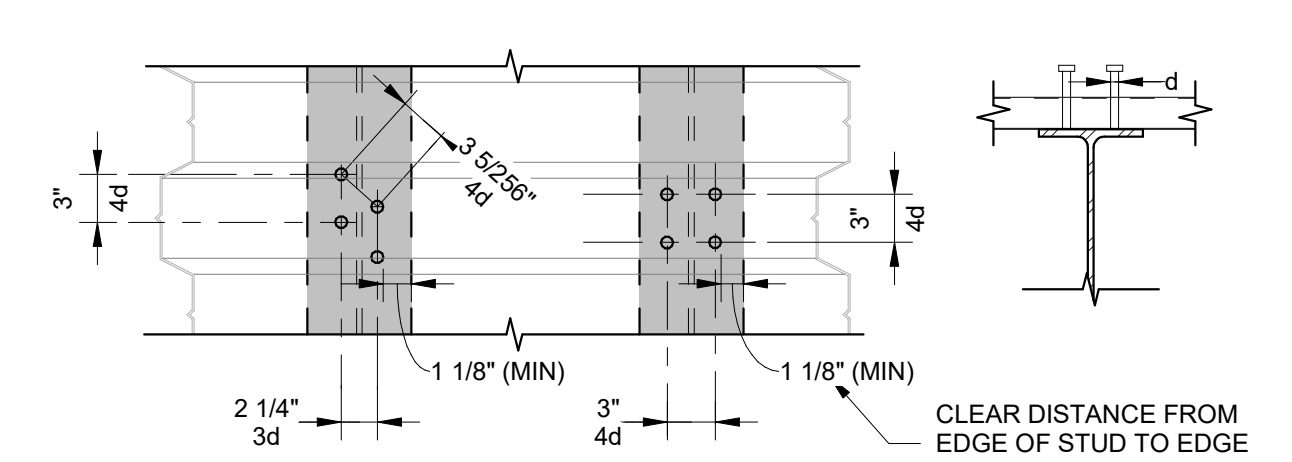
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S5.1



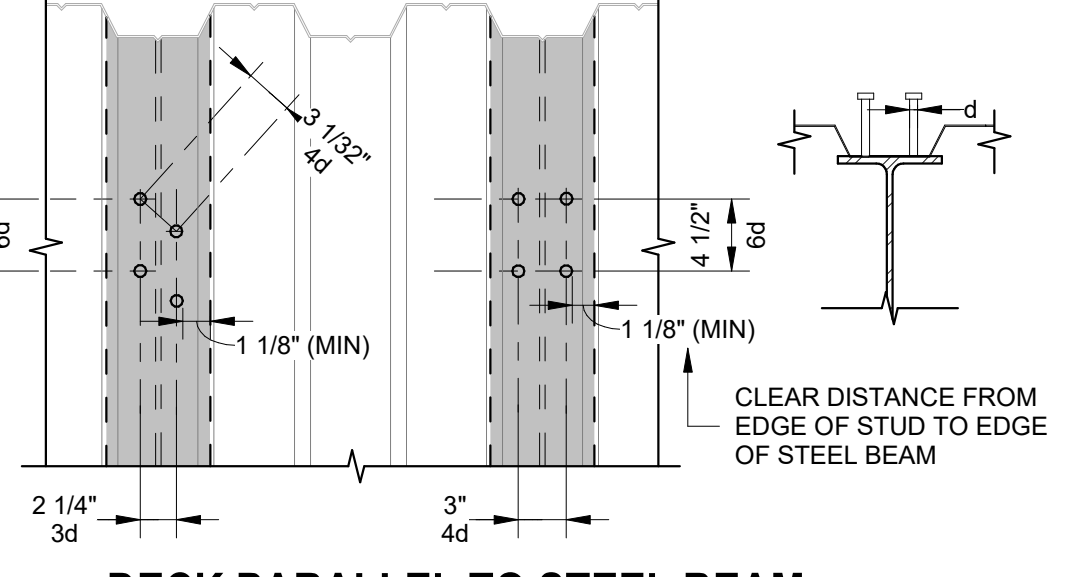
- NOTES:**
- FOR BEAMS PERPENDICULAR TO DECK SPAN:
    - EQUALLY SPACE ANCHORS IN ONE ROW ALONG BEAM AT A MAXIMUM SPACING OF 24" OC. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF THERE ARE INSUFFICIENT ANCHORS TO SPACE AT 24" OC ALONG THE BEAM.
    - MINIMUM ANCHOR SPACING ALONG BEAM IS 3" OC (4x STUD DIAMETER).
    - IF THERE ARE ANCHORS REMAINING, ASSIGN ONE ANCHOR TO EVERY OTHER RIB WITHOUT AN ANCHOR STARTING AT EACH END OF THE BEAM.
    - IF THERE ARE STILL ANCHORS REMAINING, ASSIGN ONE ANCHOR TO EACH RIB WITHOUT AN ANCHOR, AGAIN STARTING AT EACH END OF THE BEAM.
    - IF NUMBER OF ANCHORS EXCEEDS NUMBER OF RIBS, ASSIGN ONE ANCHOR TO EACH RIB. ASSIGN SECOND ANCHOR TO EACH RIB STARTING AT EACH END OF BEAM UNTIL ALL ANCHORS ARE USED. SEE A-A FOR MINIMUM ANCHOR SPACE. EDGE OF ANCHORS SHALL BE LOCATED A MINIMUM OF 1 1/8" (1.5x STUD DIAMETER) FROM EDGE OF BEAM FLANGE (3" GAUGE). WELD ANCHORS AFTER ASSIGNING IS COMPLETE.
  - FOR BEAMS PARALLEL TO DECK SPAN:
    - EQUALLY SPACE TOTAL QUANTITY OF ANCHORS IN ONE ROW ALONG BEAM. IF QUANTITY OF ANCHORS EXCEEDS THE MINIMUM SPACING IN NOTE b BELOW, INSTALL ANCHORS IN TWO ROWS ALONG BEAM.
    - MINIMUM ANCHOR SPACING ALONG BEAM IS 4 1/2" OC (6x STUD DIAMETER).
    - FOR ONE ROW OF ANCHORS, LOCATE ANCHORS OVER BEAM WEB. FOR TWO ROWS OF ANCHORS, SEE B-B FOR MINIMUM ANCHOR SPACING. EDGE OF ANCHORS SHALL BE LOCATED A MINIMUM OF 1 1/8" (1.5x STUD DIAMETER) FROM EDGE OF BEAM FLANGE. (3" GAUGE).
  - SEE COMPOSITE FLOOR SYSTEM NOTES AND FRAMING PLAN FOR HEADED STUD ANCHOR SIZE, LENGTH AND QUANTITY.

**DISTRIBUTED HEADED STUD ANCHOR PLACEMENT**

SCALE: 1" = 1'-0"

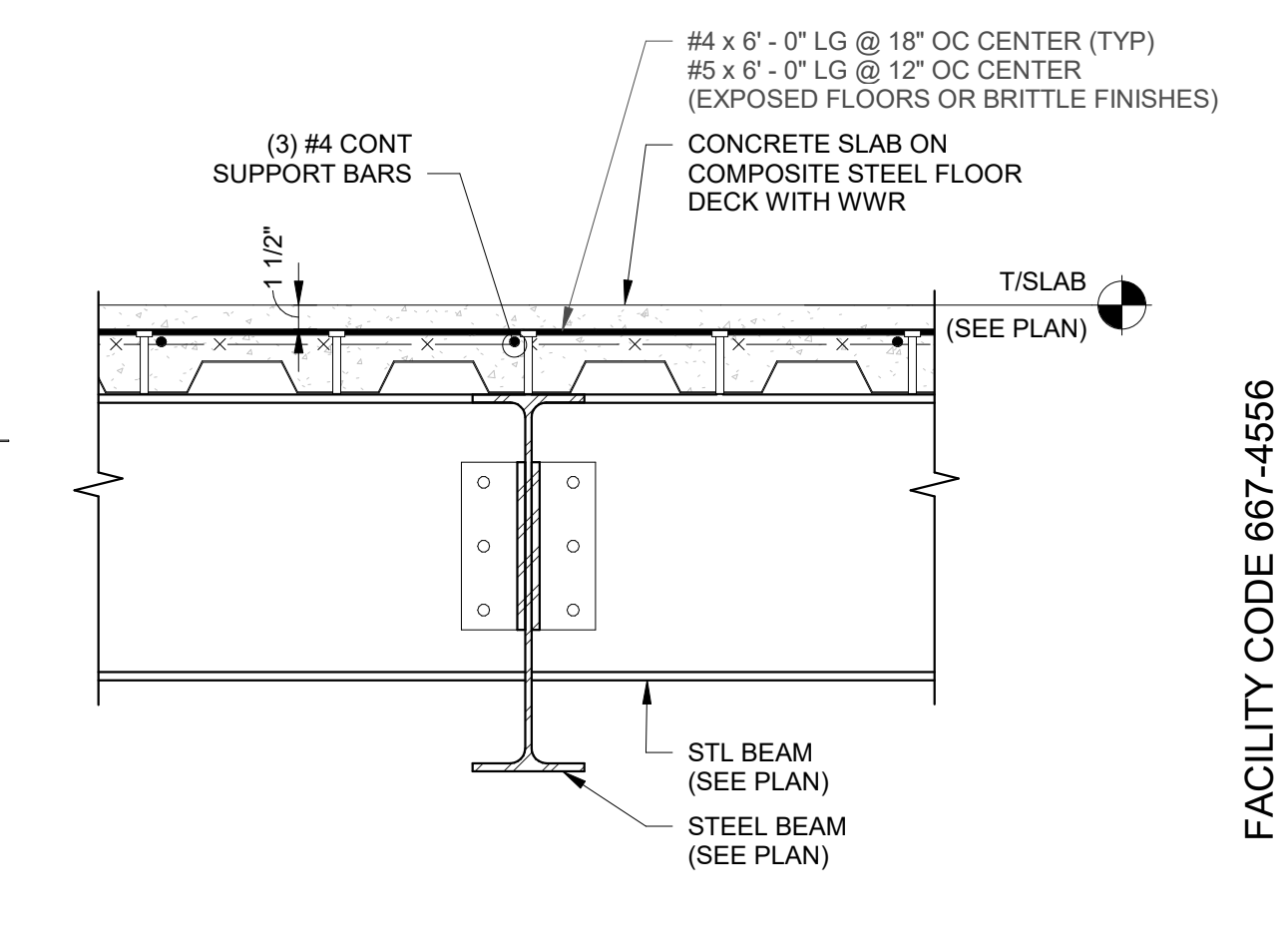


**DECK PERPENDICULAR TO STEEL BEAM**



**DECK PARALLEL TO STEEL BEAM**

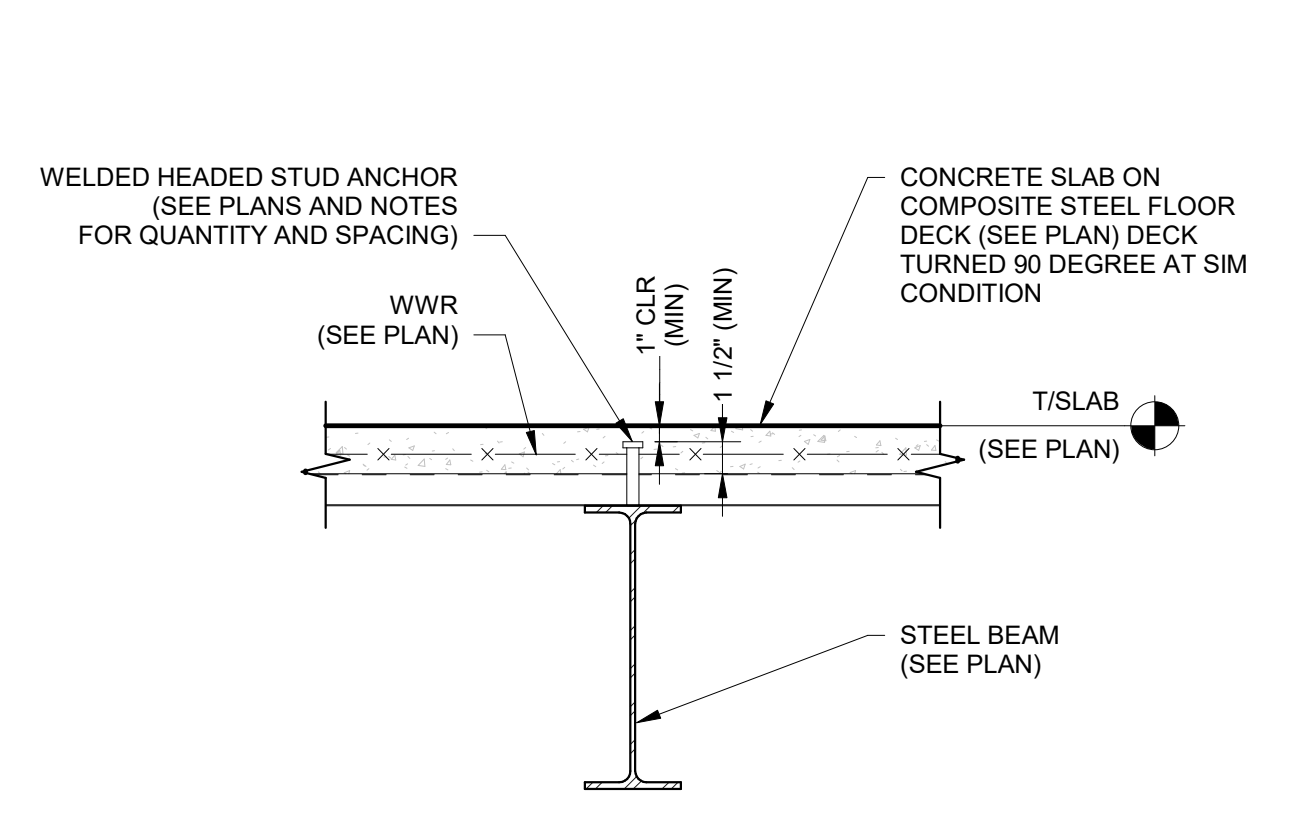
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**TYPICAL COMPOSITE STEEL GIRDER - SECTION**

SCALE: 1" = 1'-0"

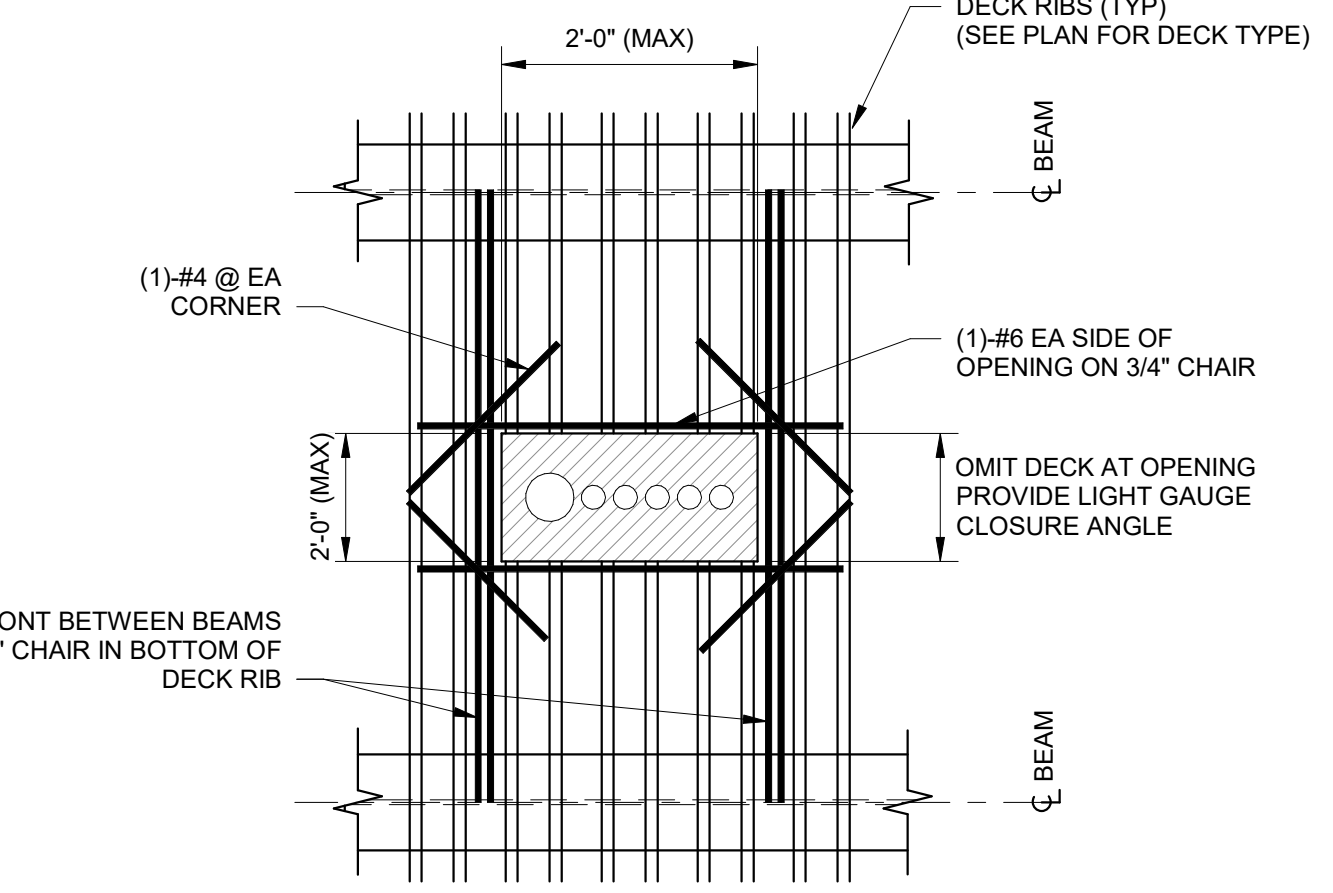
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S5.1



**TYPICAL COMPOSITE STEEL BEAM - SECTION**

SCALE: 1" = 1'-0"

4  
S5.1

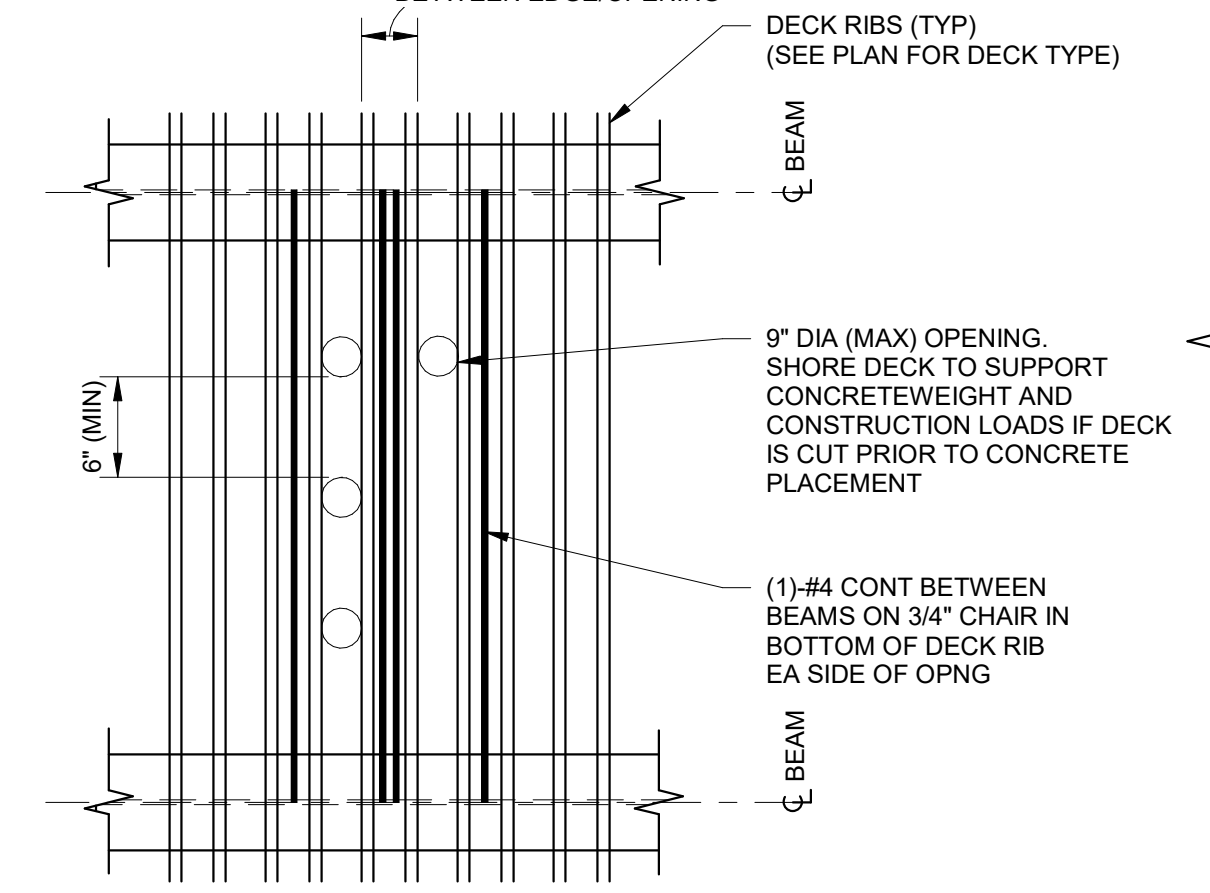


**MULTIPLE SLEEVES IN SINGLE OPENING**

- NOTES:**
- REINFORCING SHALL EXTEND 2'-0" MINIMUM PAST EACH SIDE OF OPENING.
  - ALL OPENINGS TO BE REVIEWED AND APPROVED BY EOR. ADDITIONAL FRAMING MAY BE REQUIRED.

**COMPOSITE SLAB PIPE PENETRATION - PLAN**

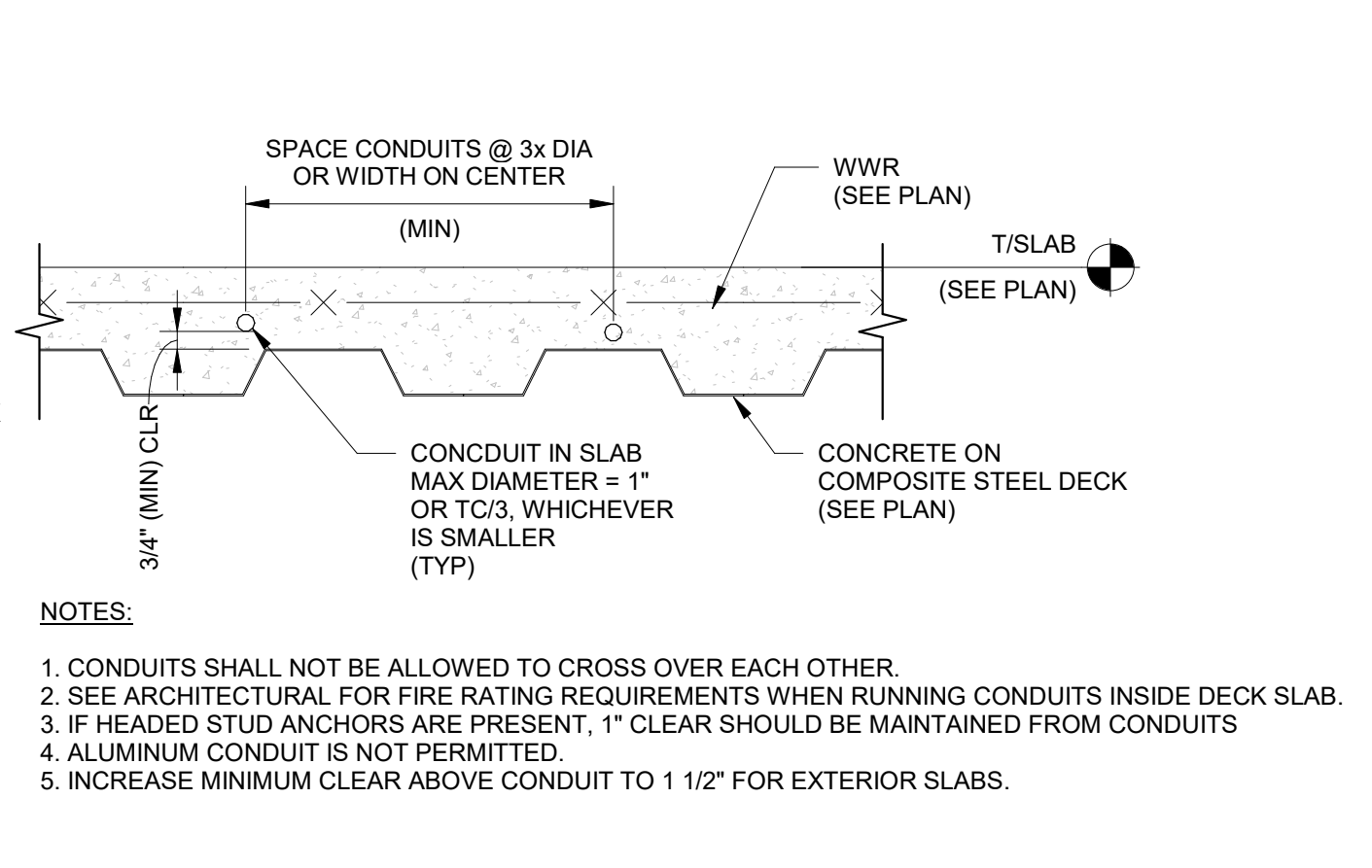
SCALE: 1" = 1'-0"



**ISOLATED OPENINGS**

- NOTES:**
- REINFORCING SHALL EXTEND 2'-0" MINIMUM PAST EACH SIDE OF OPENING.

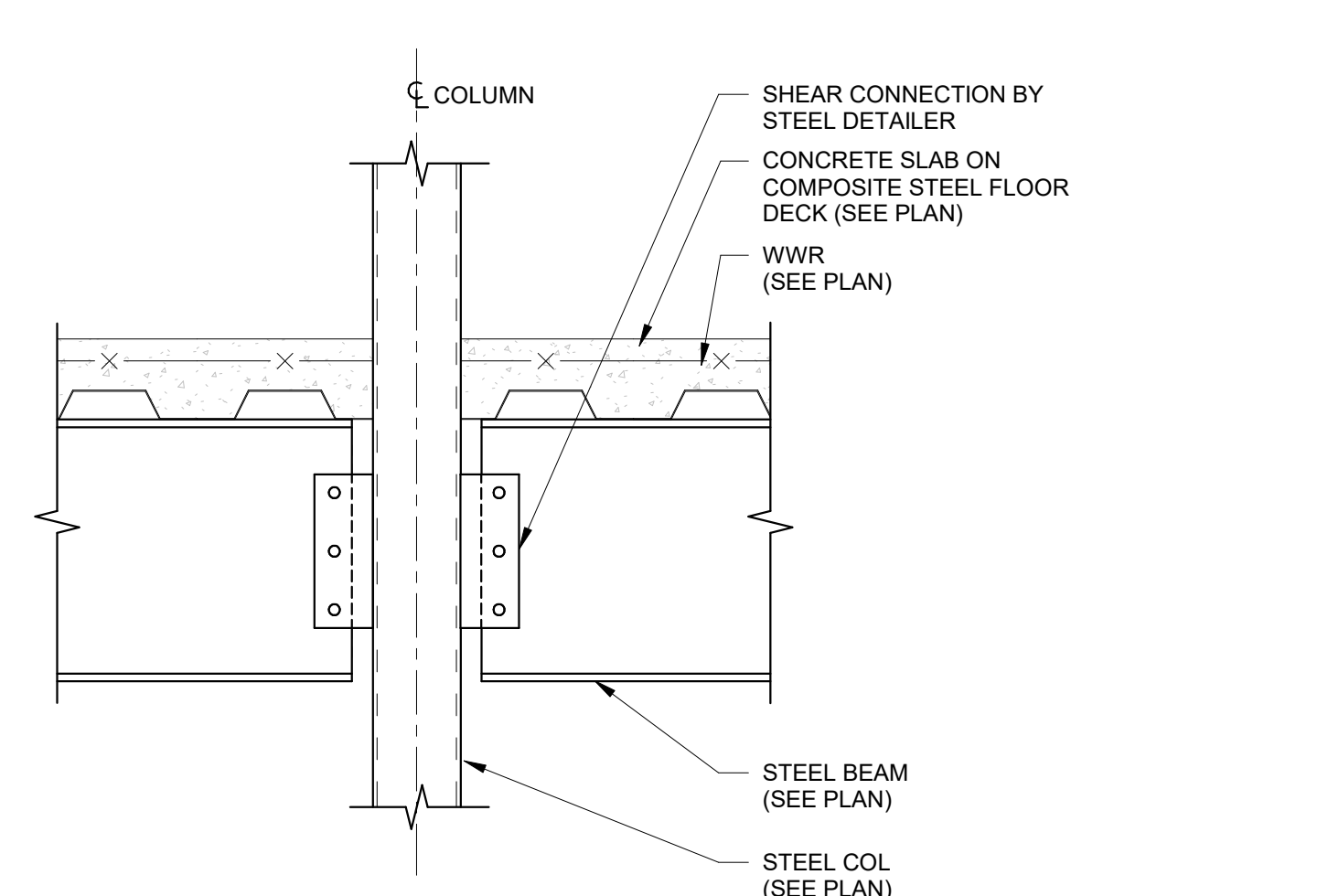
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S5.1



**TYPICAL CONDUIT IN DECK SLAB - SECTION**

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

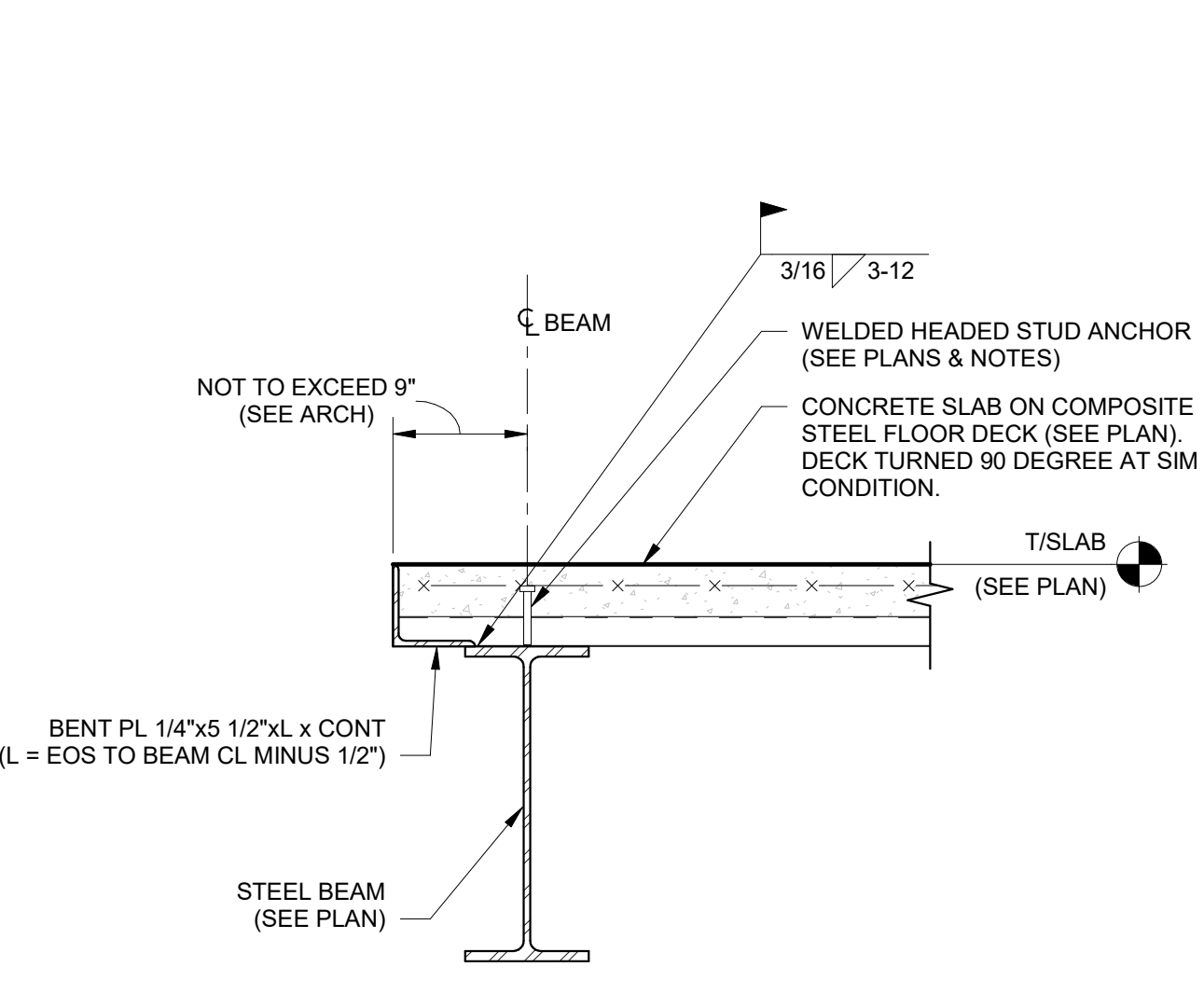
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**TYPICAL COMPOSITE STEEL BEAM TO STEEL COLUMN CONNECTION - SECTION**

SCALE: 1" = 1'-0"

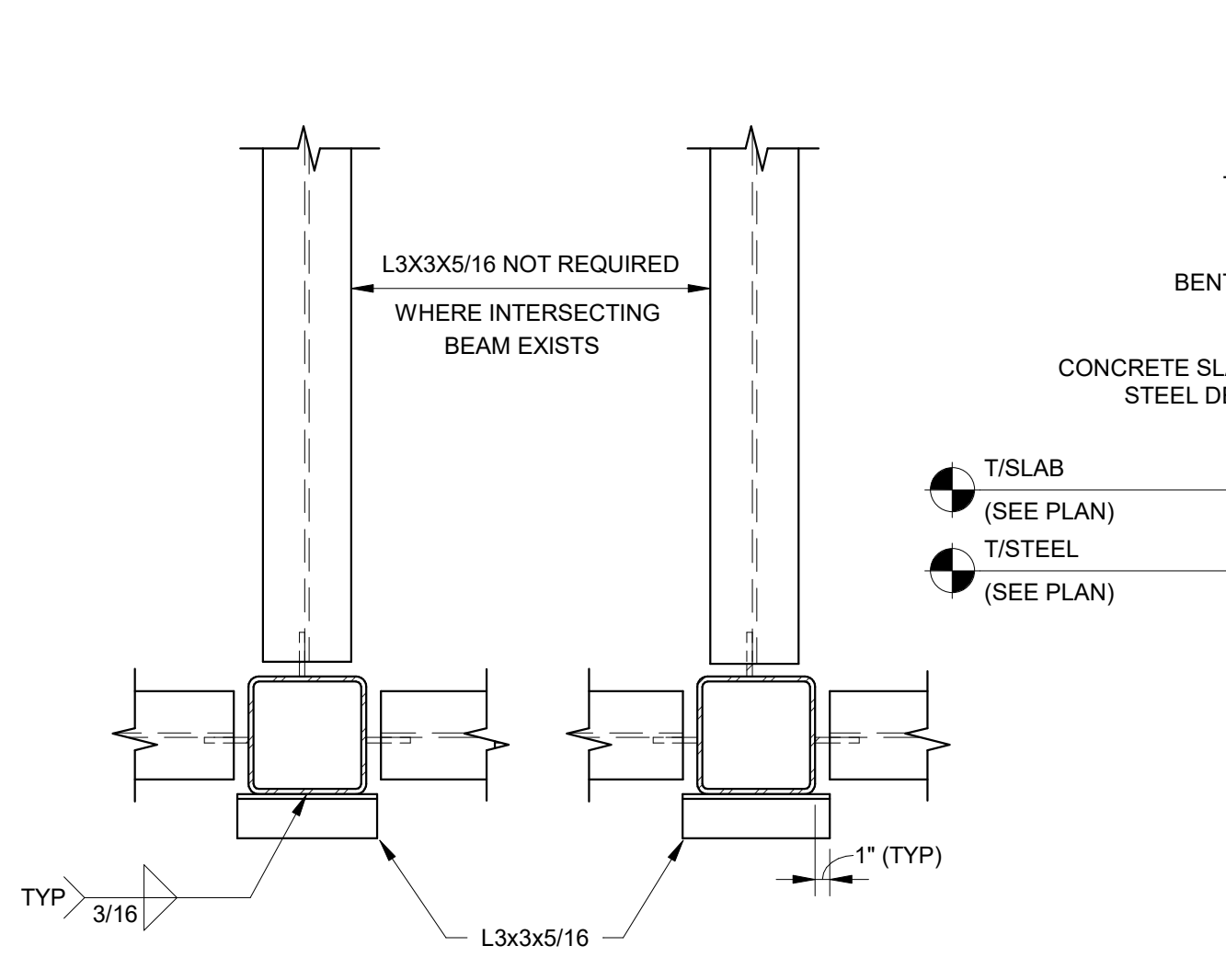
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**EDGE OF SLAB DETAIL AT INTERIOR CONDITIONS - SECTION**

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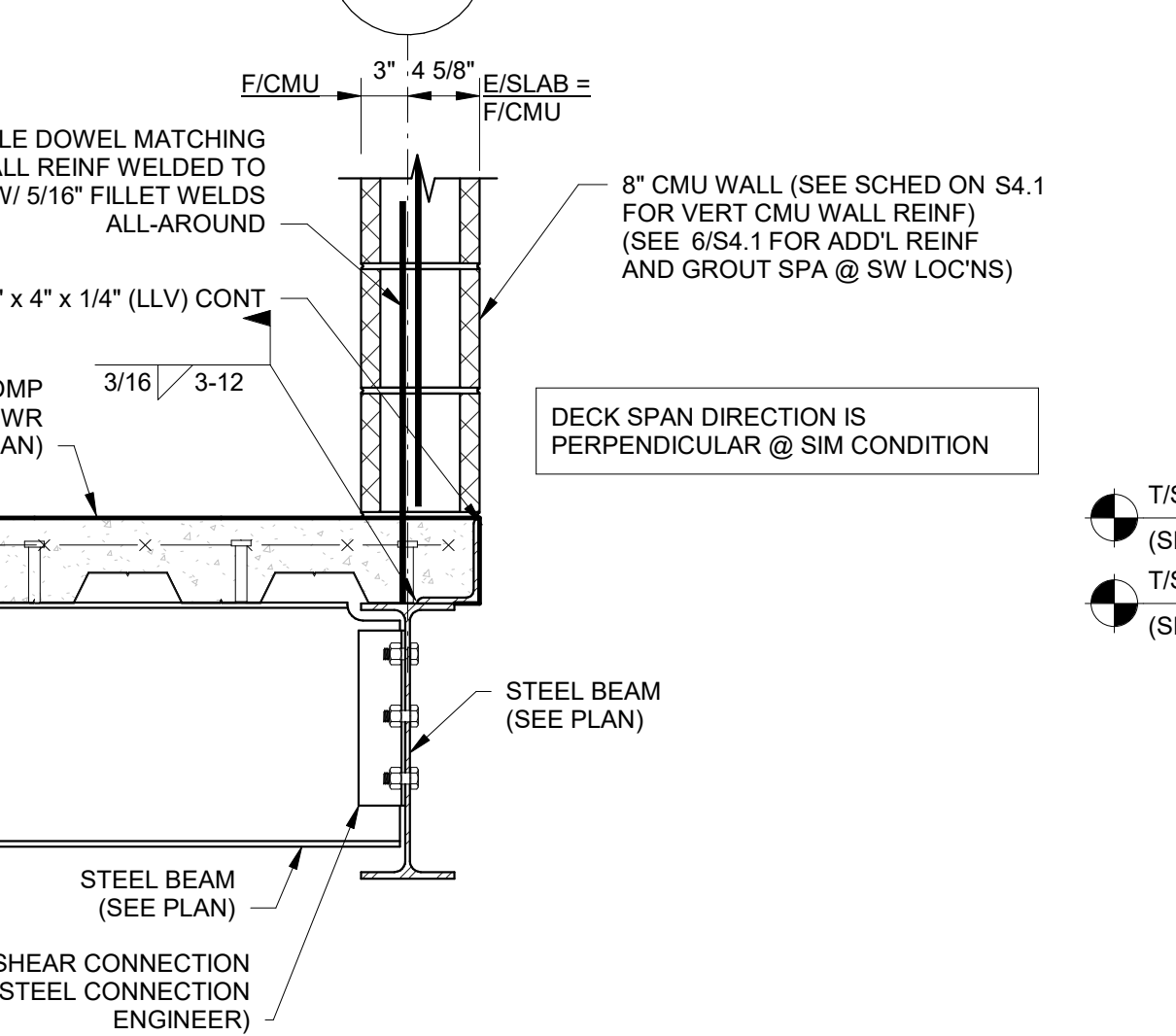
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S5.1



**DECK SUPPORT ANGLE AT HSS COLUMN - PLAN**

SCALE: 1" = 1'-0"

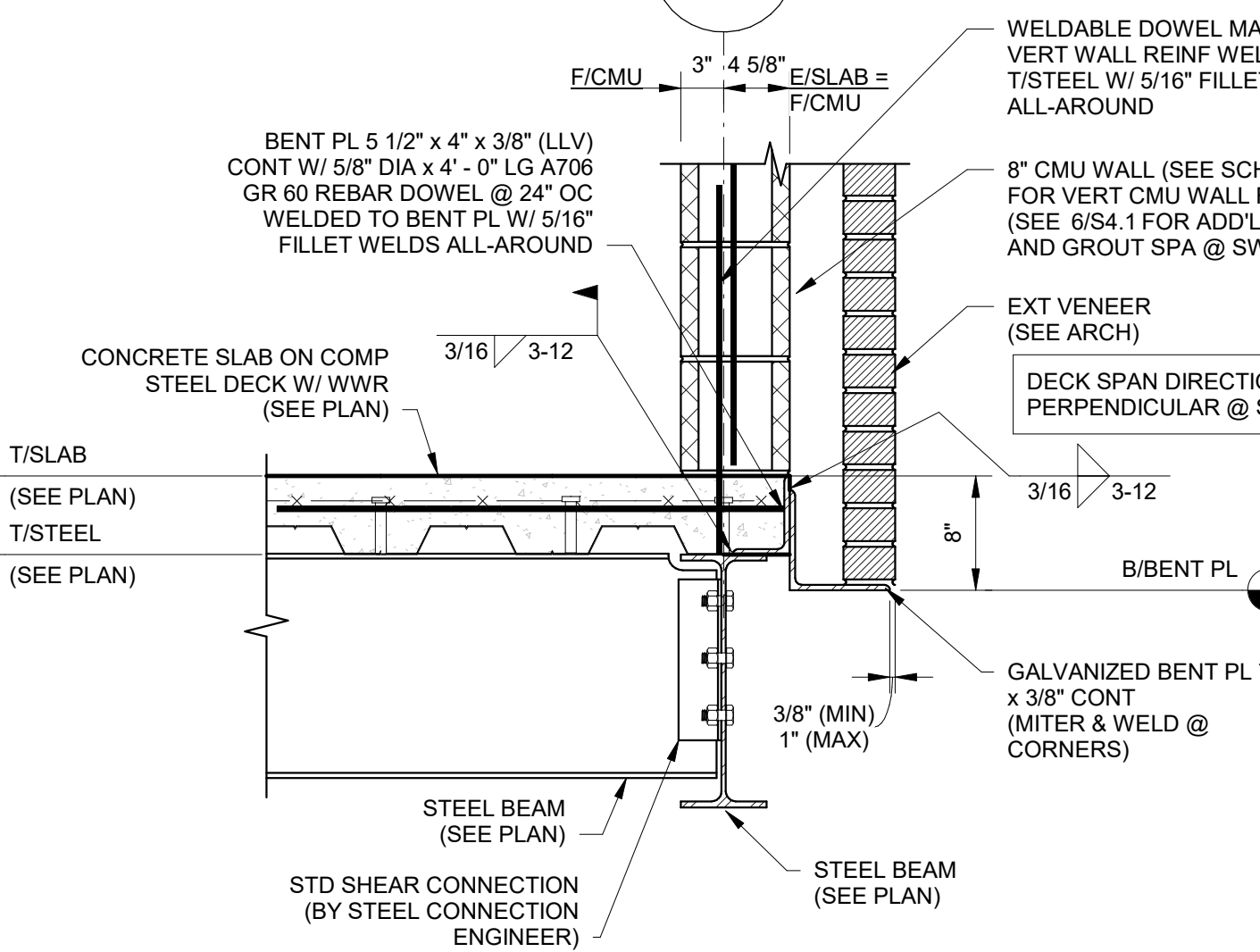
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**TYPICAL EXTERIOR SLAB EDGE DETAIL @ SECOND FLOOR**

SCALE: 1" = 1'-0"

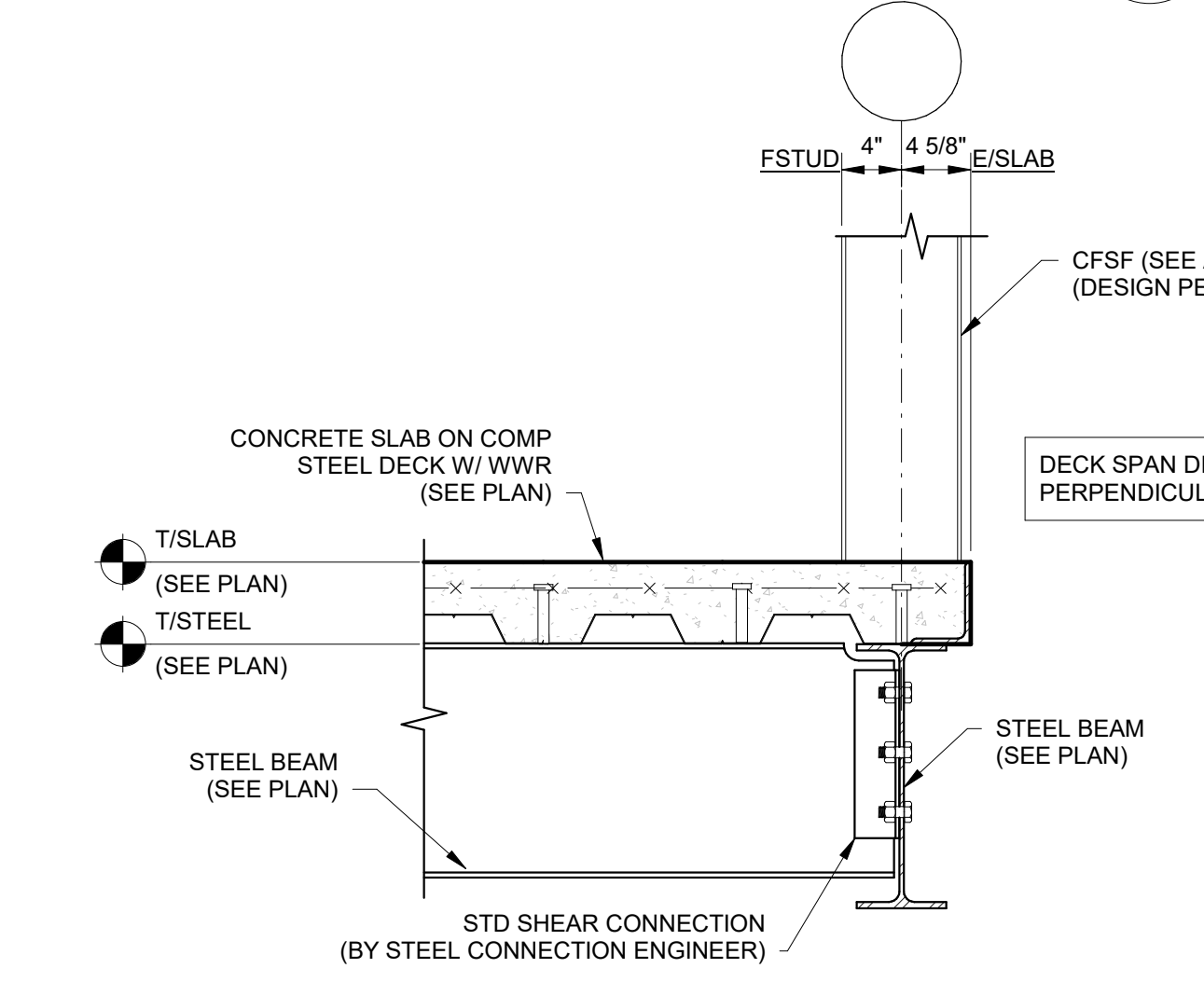
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**TYPICAL EXTERIOR SLAB EDGE DETAIL @ THIRD FLOOR**

SCALE: 1" = 1'-0"

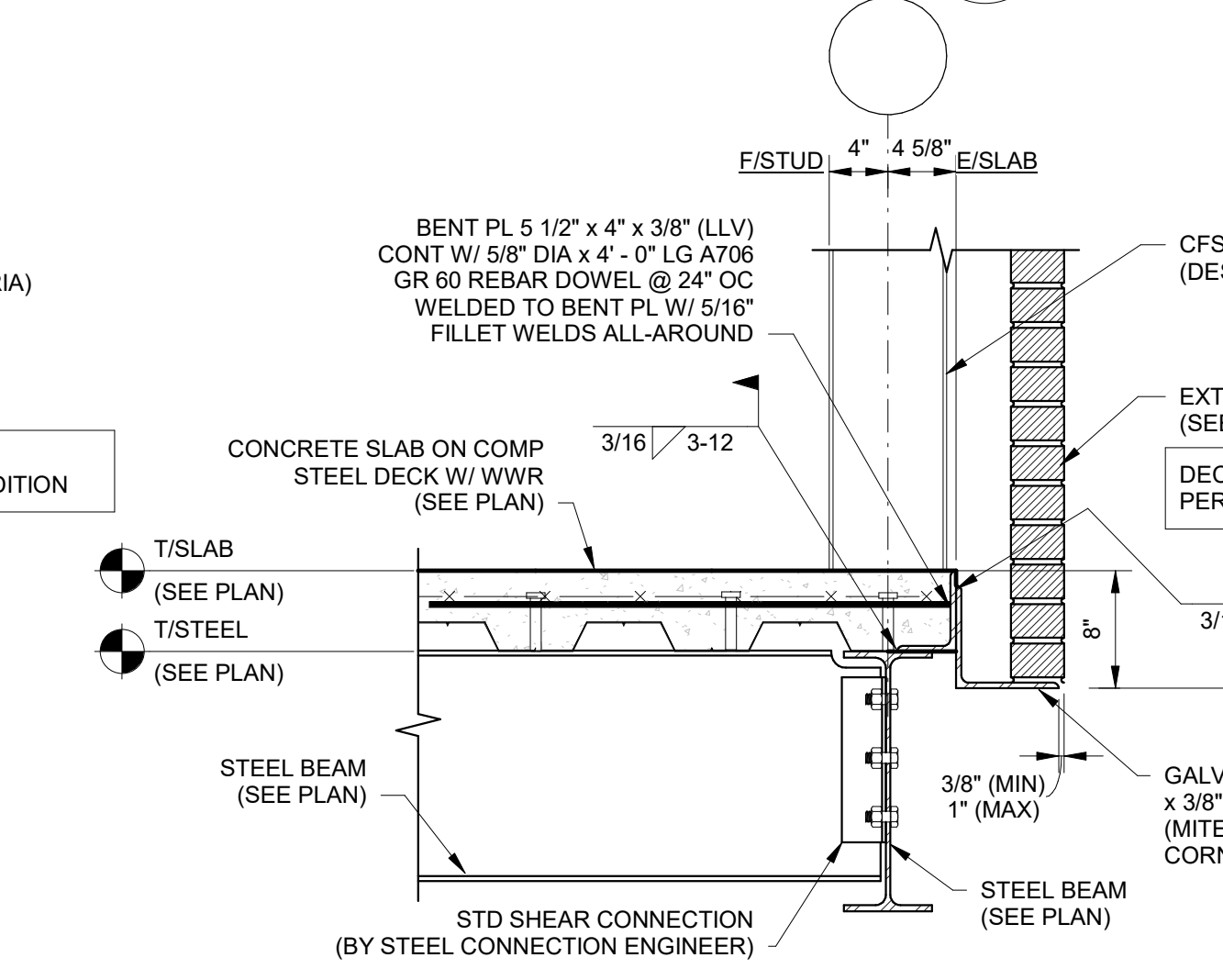
11  
S5.1



**TYPICAL EXTERIOR SLAB EDGE DETAIL @ SECOND FLOOR (@ CFSF)**

SCALE: 1" = 1'-0"

12  
S5.1



**TYPICAL EXTERIOR SLAB EDGE DETAIL @ THIRD FLOOR (@ CFSF)**

SCALE: 1" = 1'-0"

13  
S5.1

**North Gwinnett High School**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

FACILITY CODE 667-4556

DATE Issue Date

DRAWING ISSUE RECORD

DO NOT DUPLICATE WITHOUT PERMISSION

PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
 PHONE 770-457-5923 FAX 770-457-5999 WEB www.pesengineers.com  
 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022

1/28/22

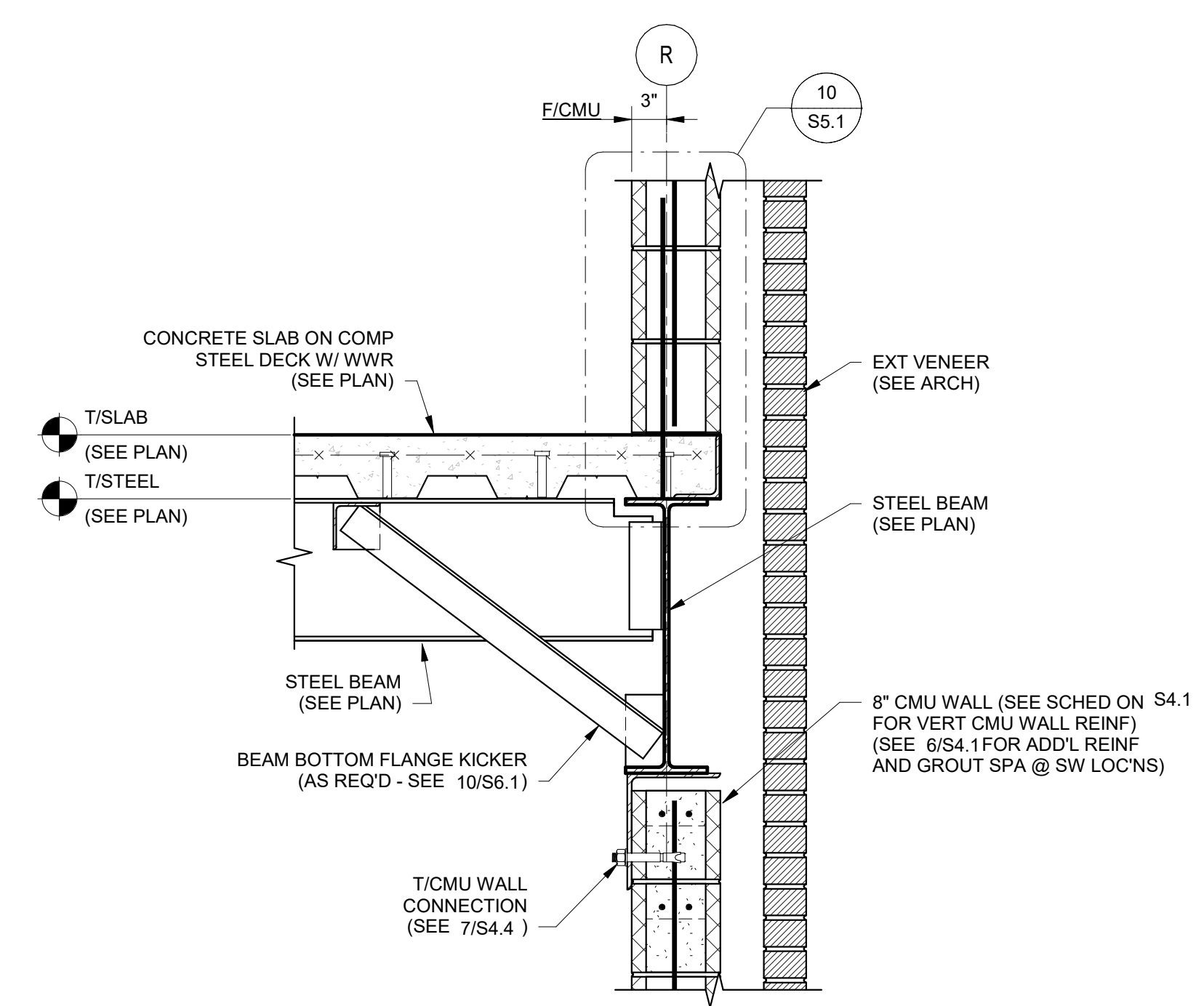
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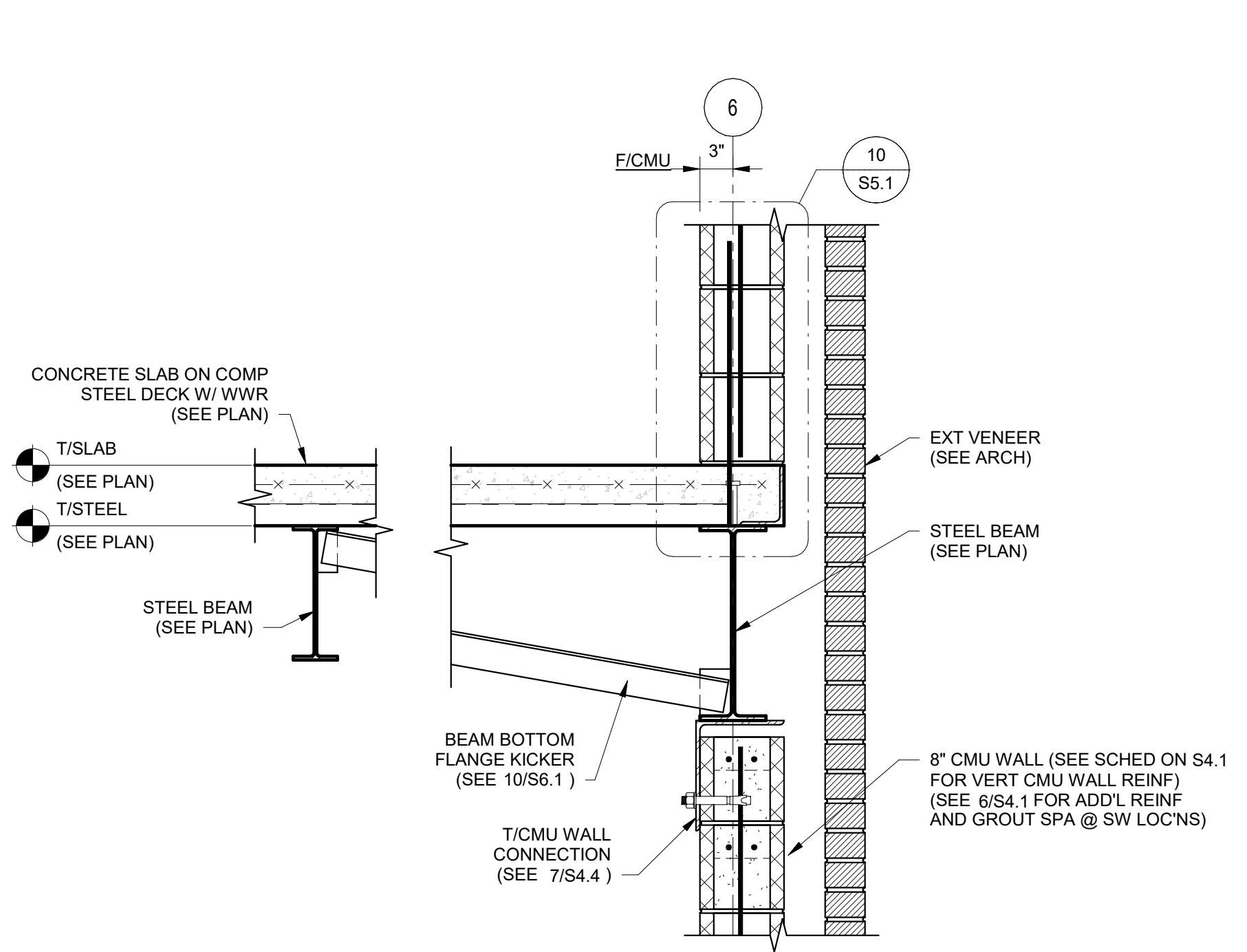
NORTH GWINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556  
 DATE Issue Date  
 DRAWN BY RAS  
 CHECKED BY ABS  
 APP. NO. SHL-001-21

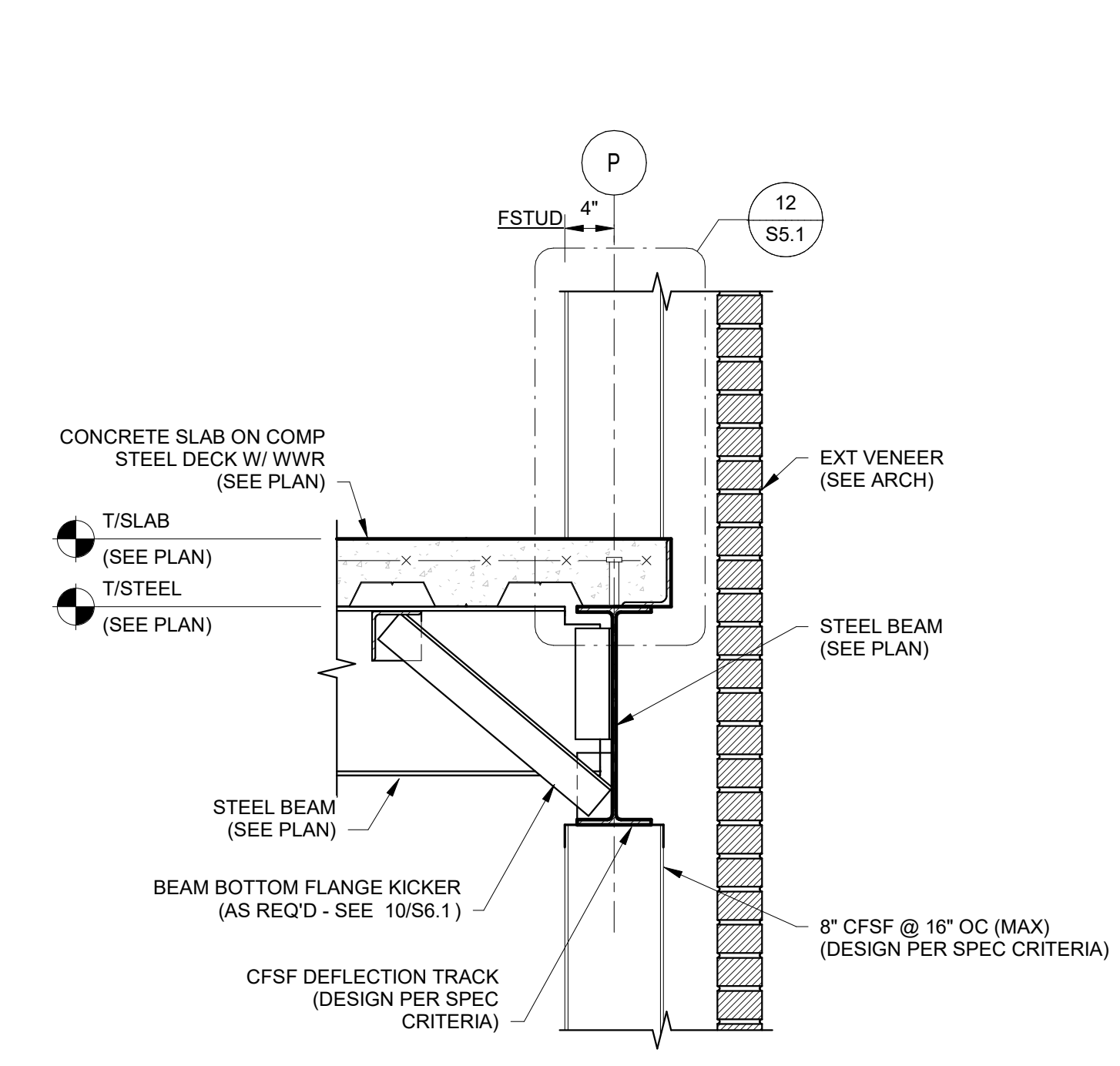
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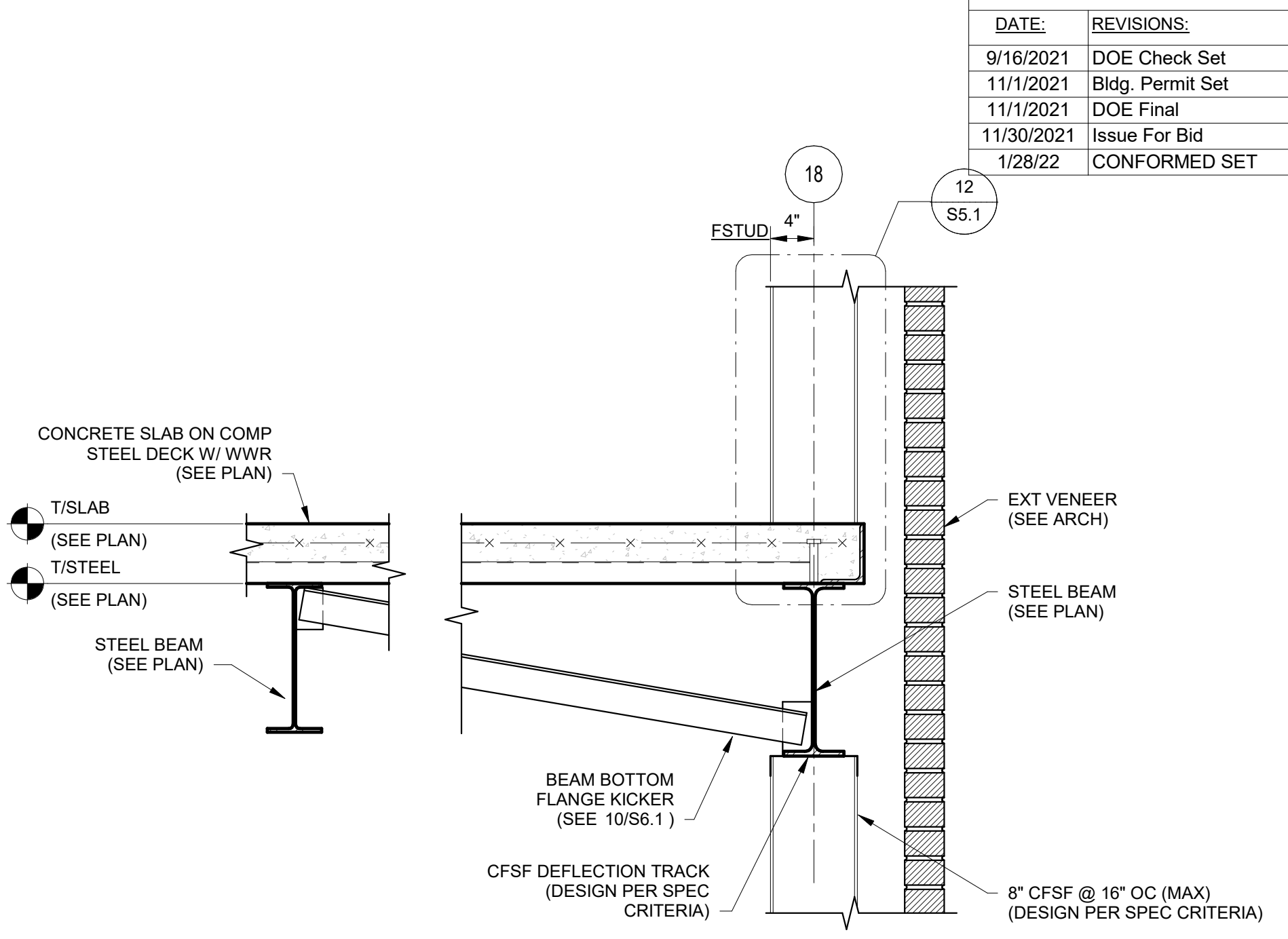
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SCALE: 1" = 1'-0"  
S5.2



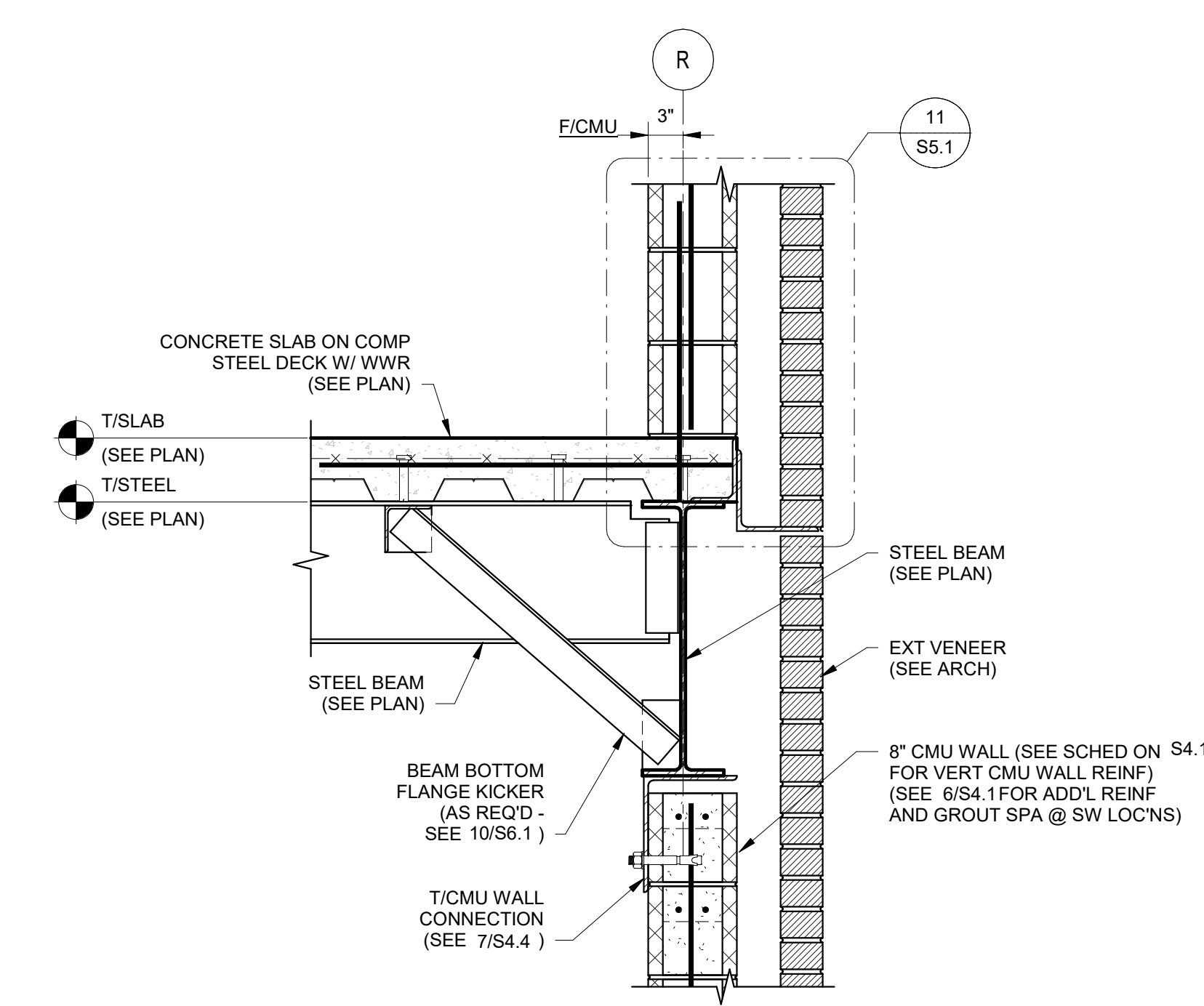
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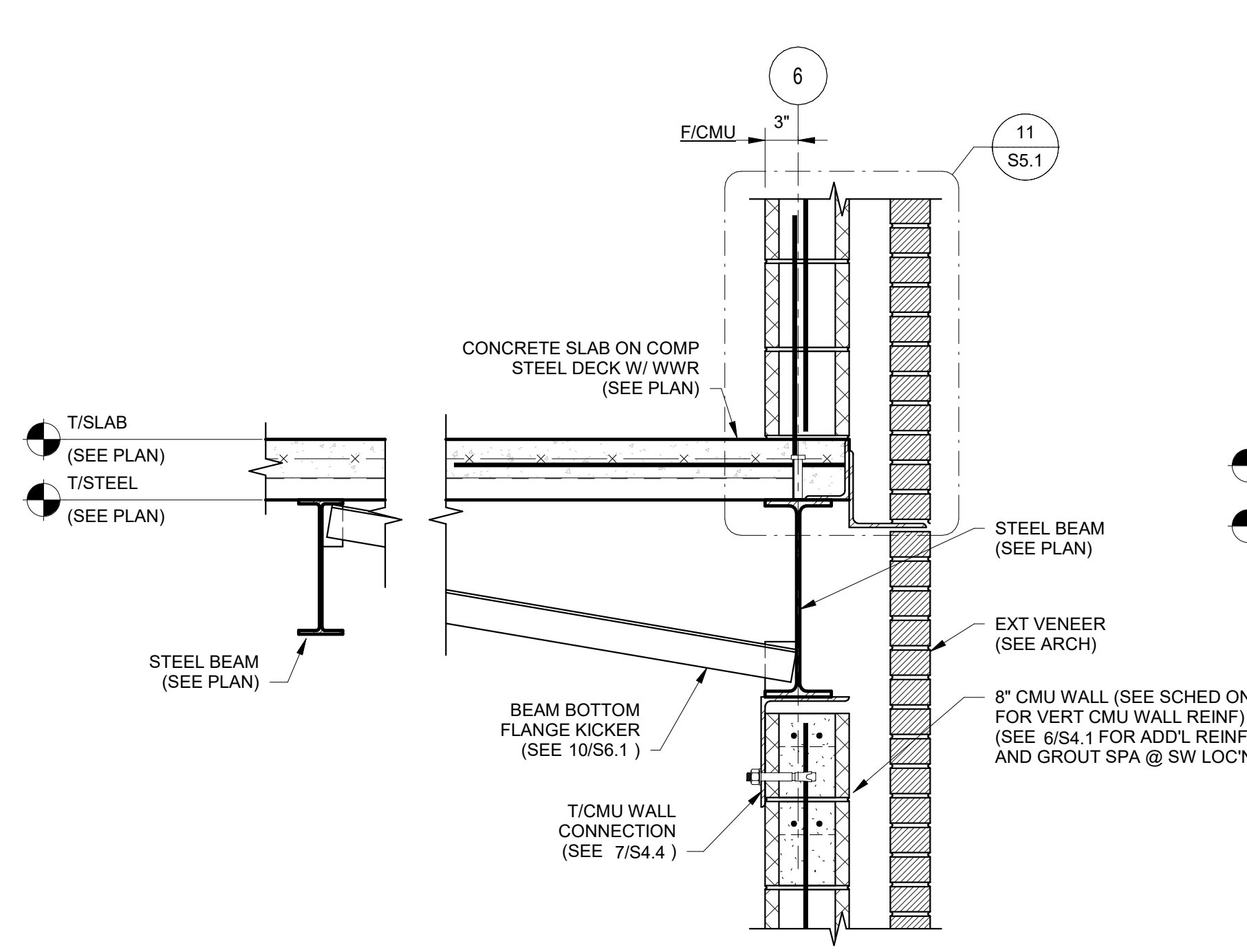
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S5.2



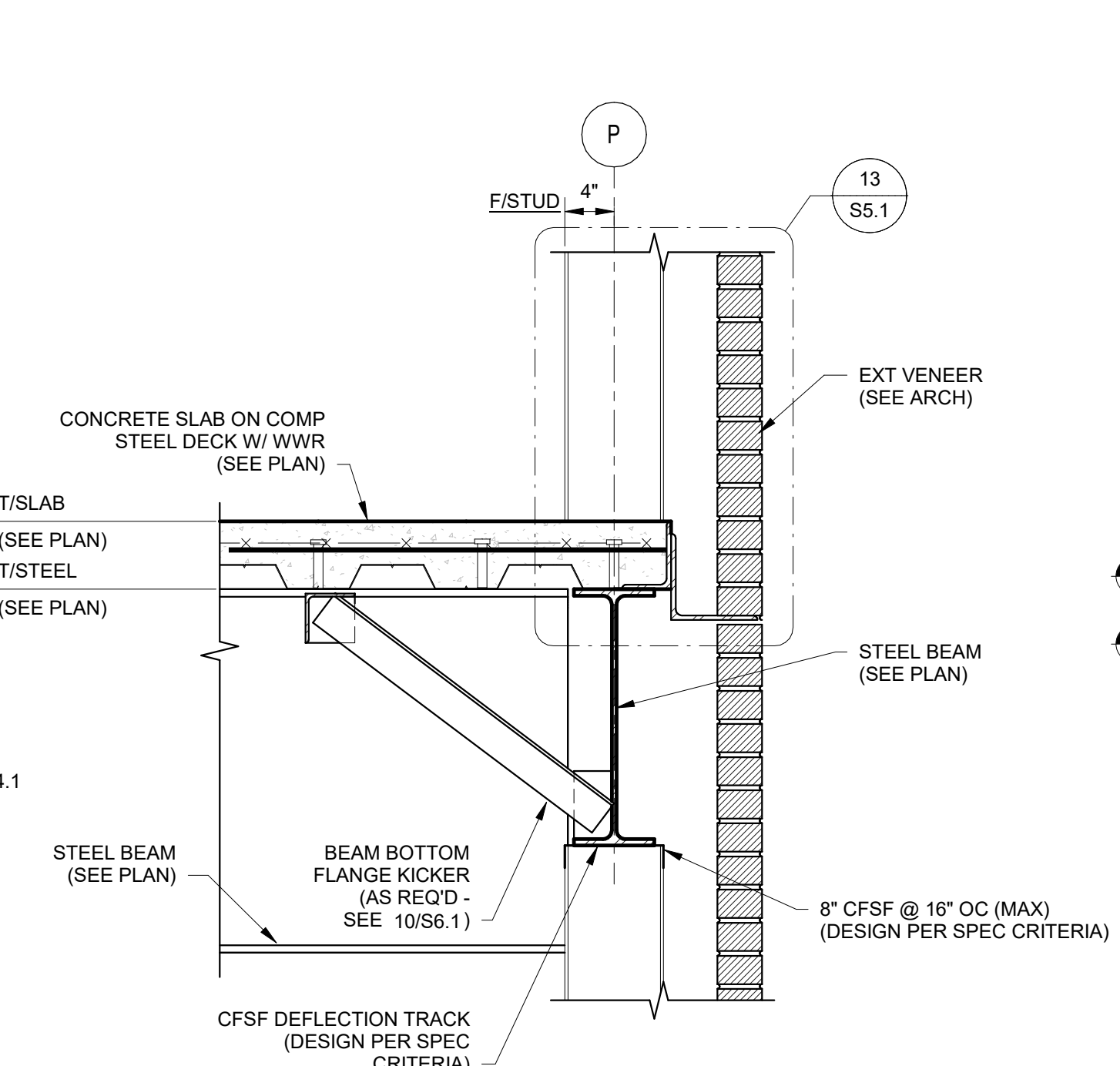
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SCALE: 1" = 1'-0"  
S5.2



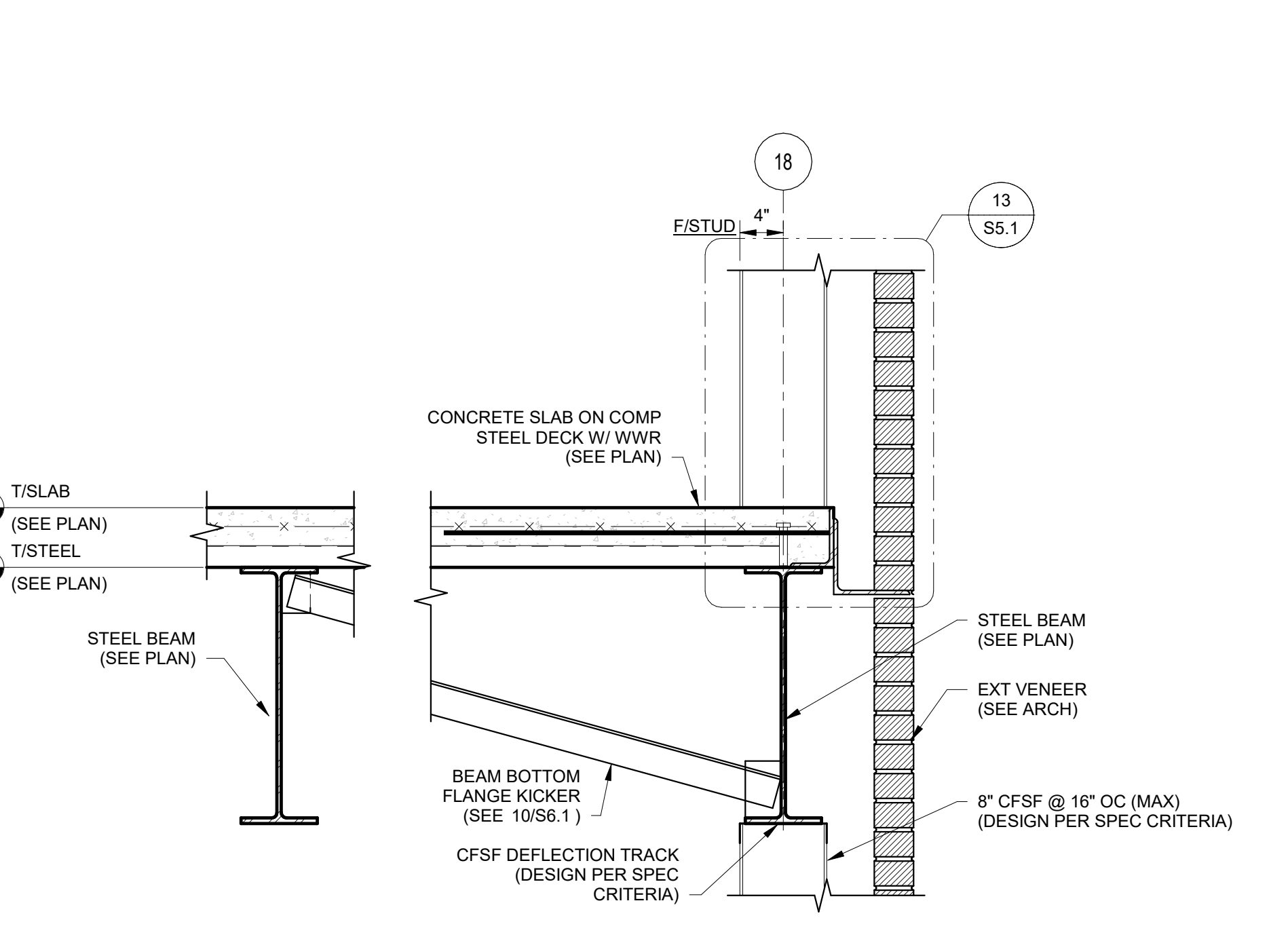
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S5.2



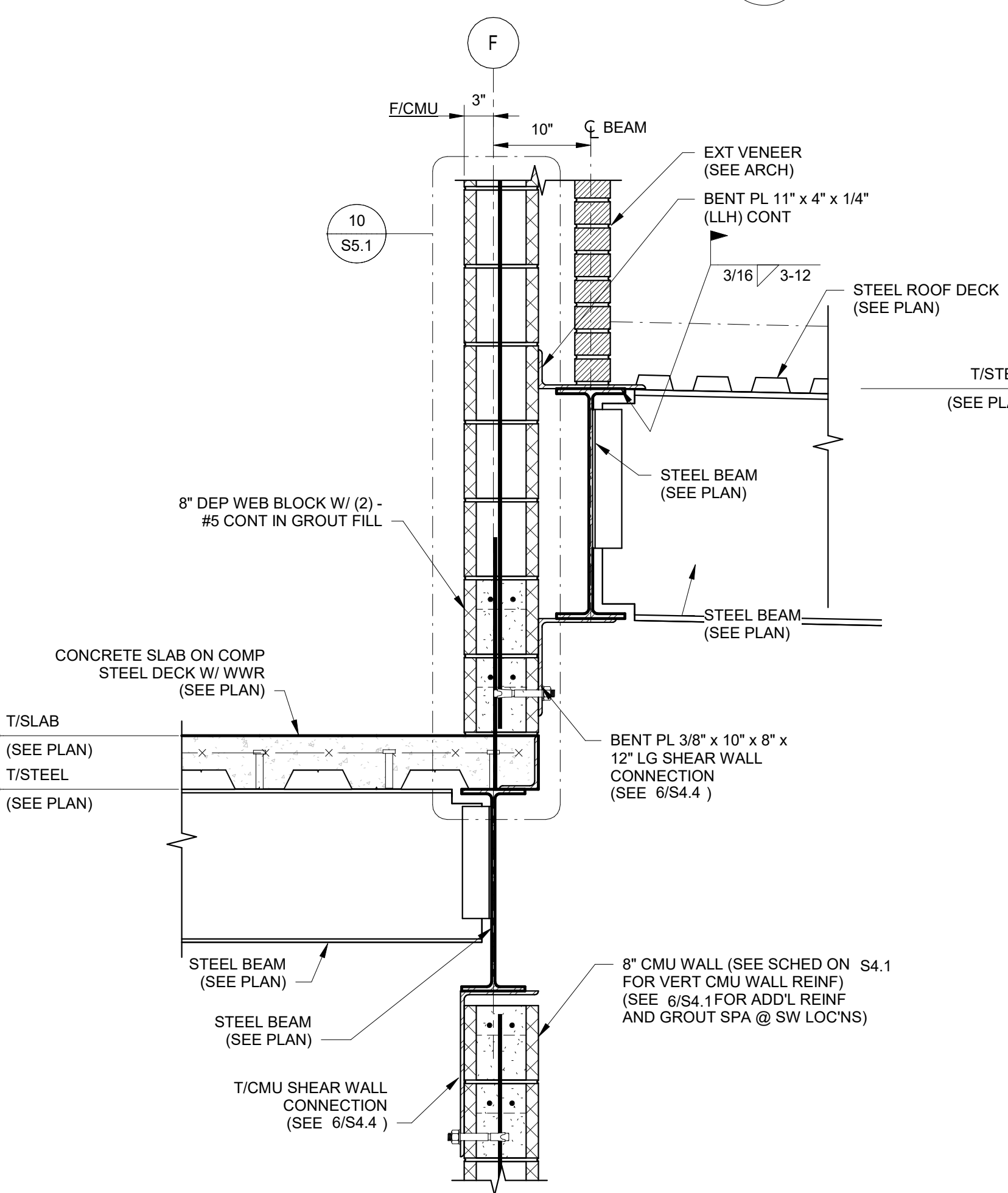
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S5.2



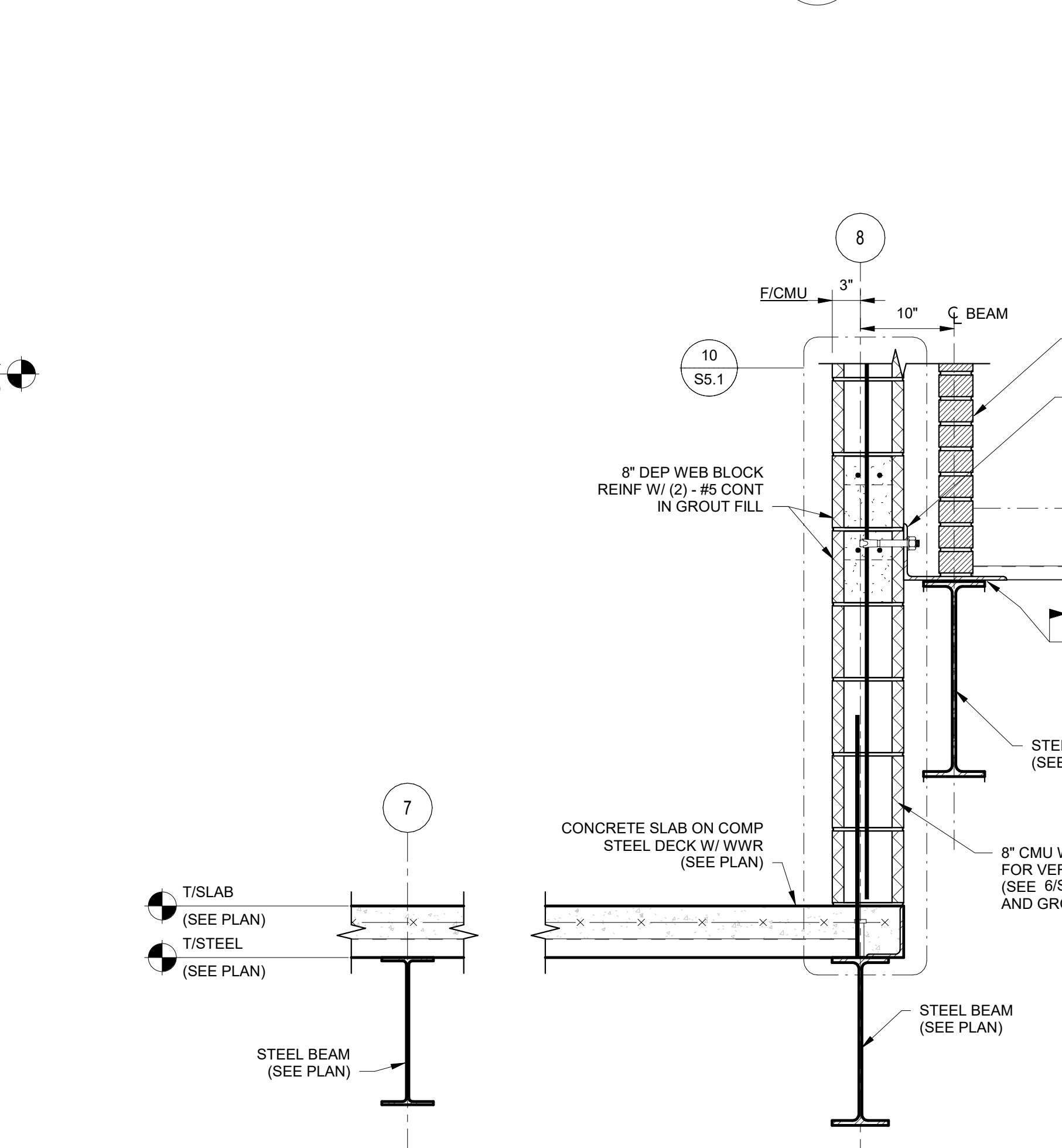
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S5.2



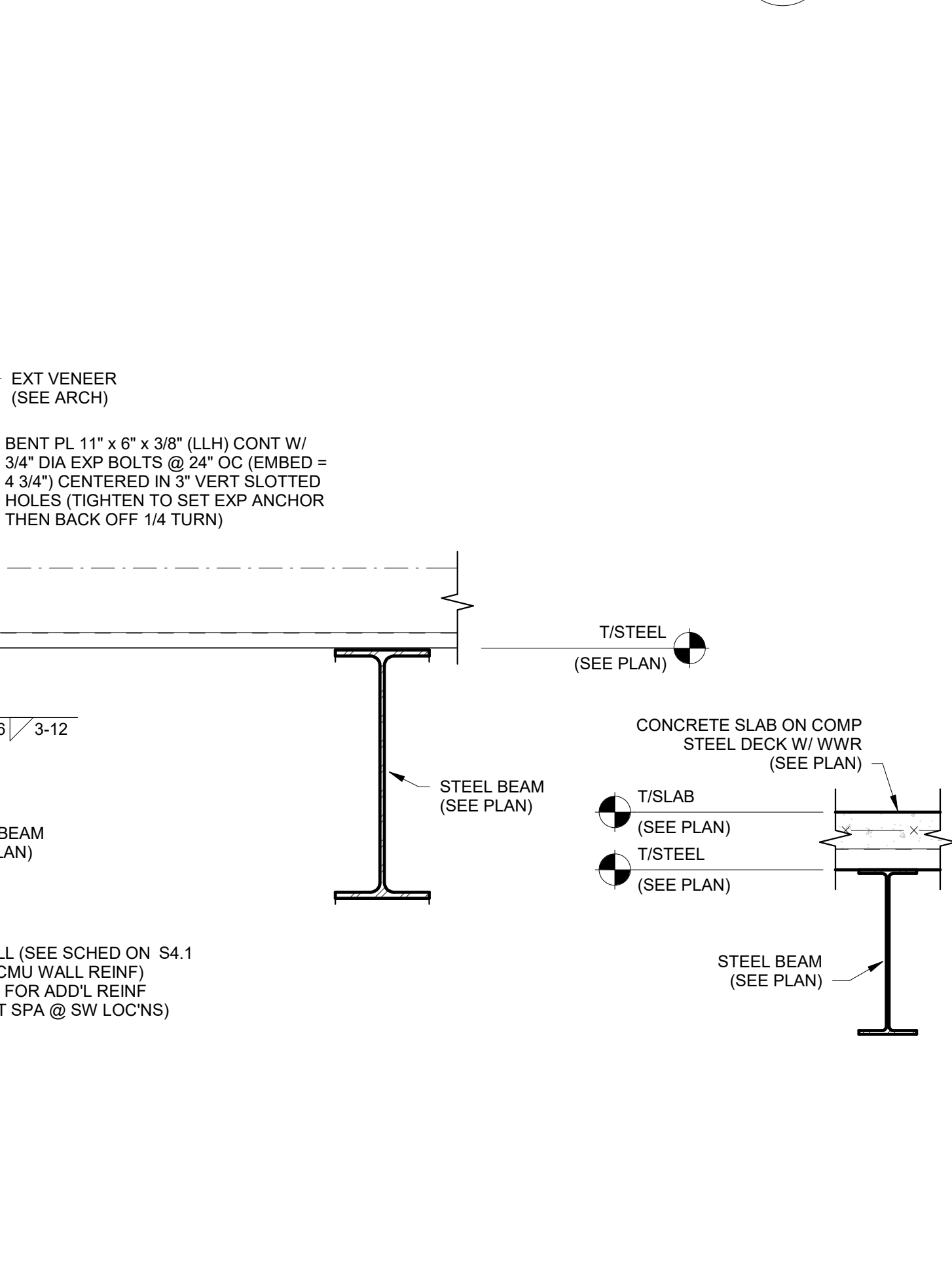
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S5.2



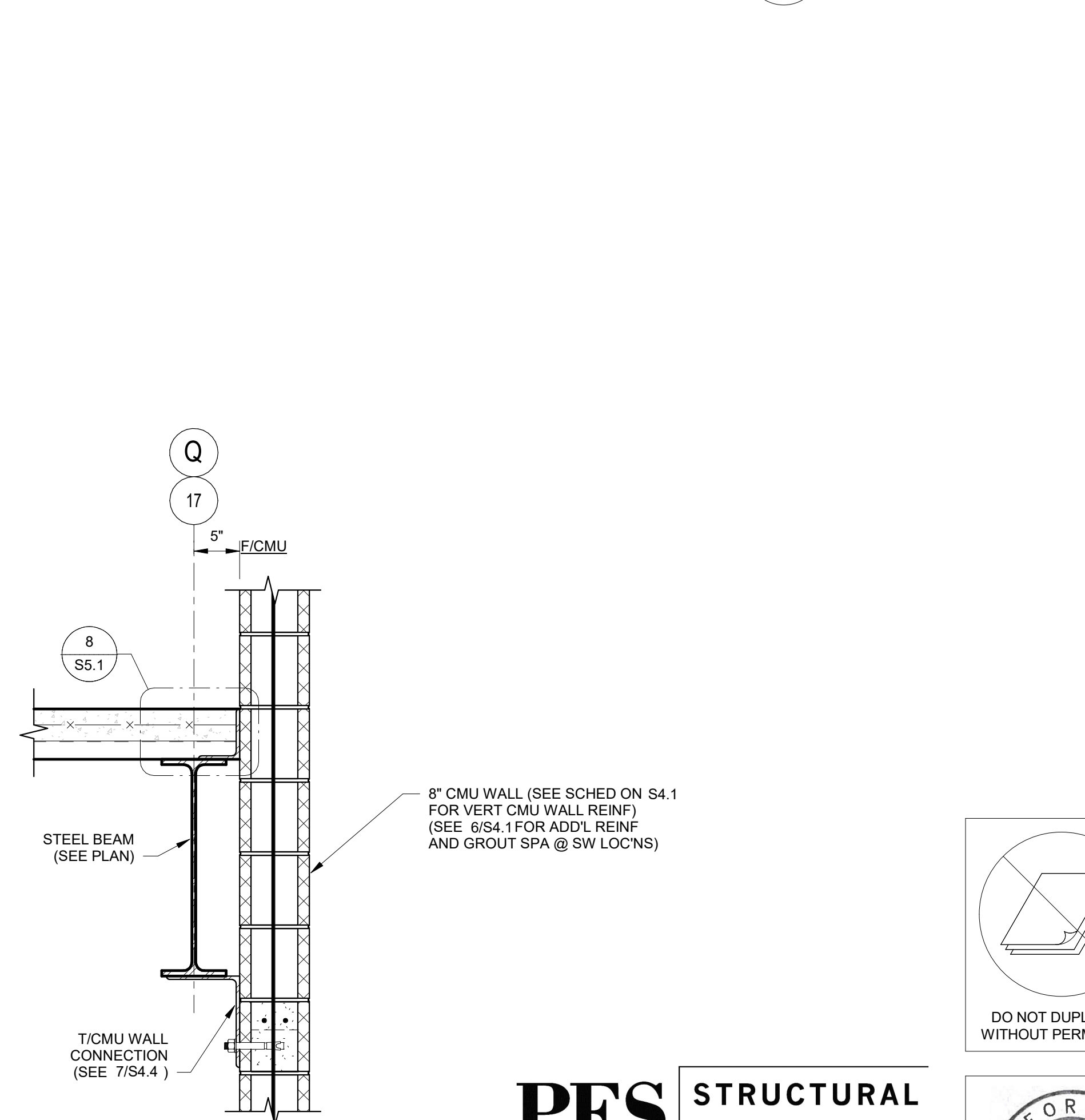
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S5.2



**SECTION 10**  
SCALE: 1" = 1'-0"  
S5.2



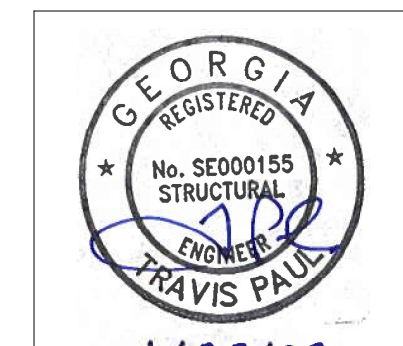
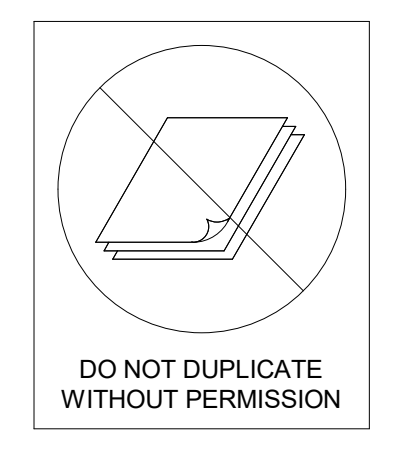
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S5.2



**SECTION 11**  
SCALE: 1" = 1'-0"  
S5.2

**PES STRUCTURAL ENGINEERS**

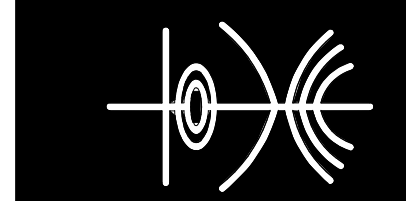
ADDRESS 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
 PHONE 770-457-5923 FAX 770-457-5999 WEB www.pesengineers.com  
 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022



1/28/22

S5.2

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
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1/28/22	CONFORMED SET	



**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

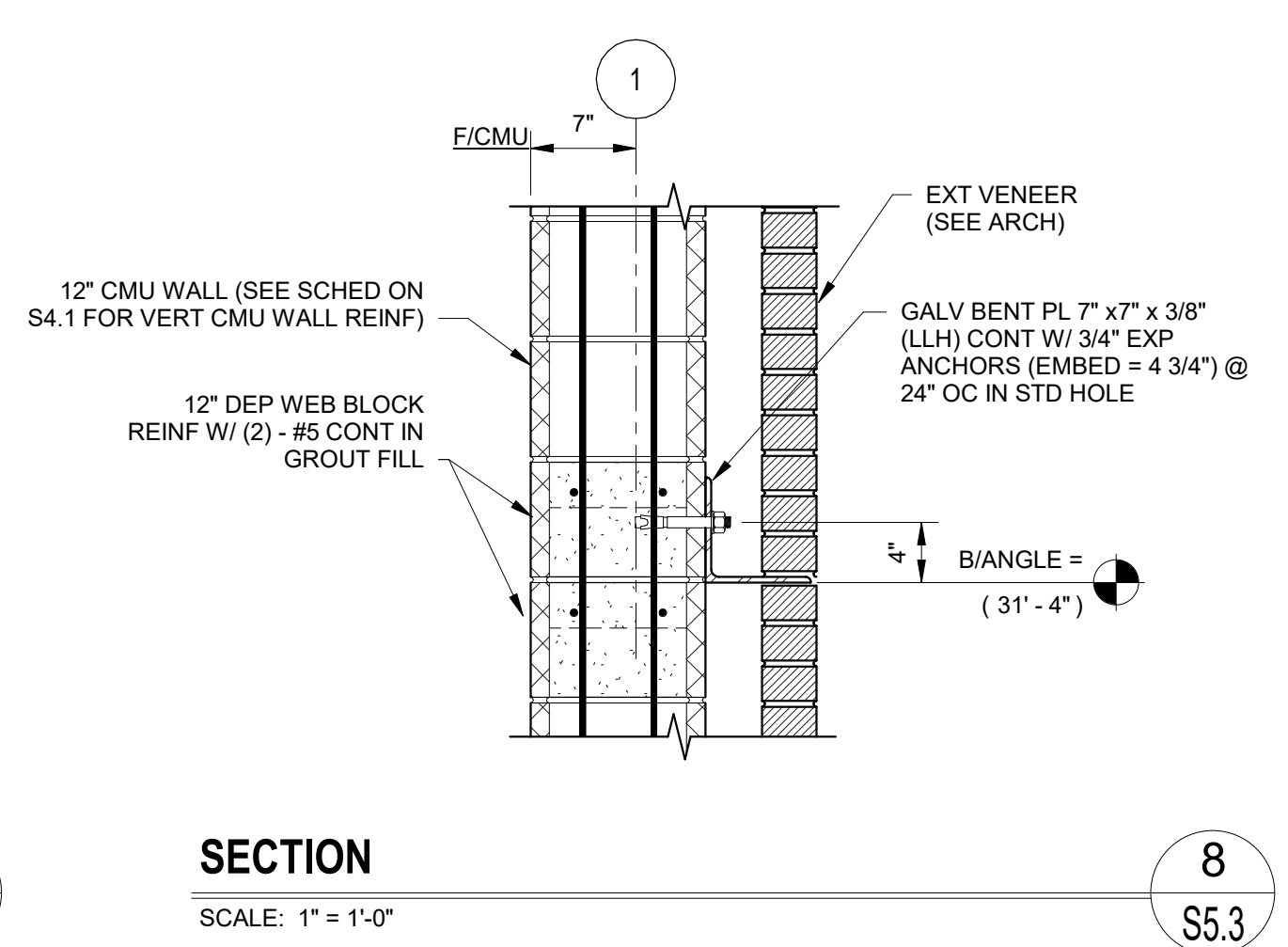
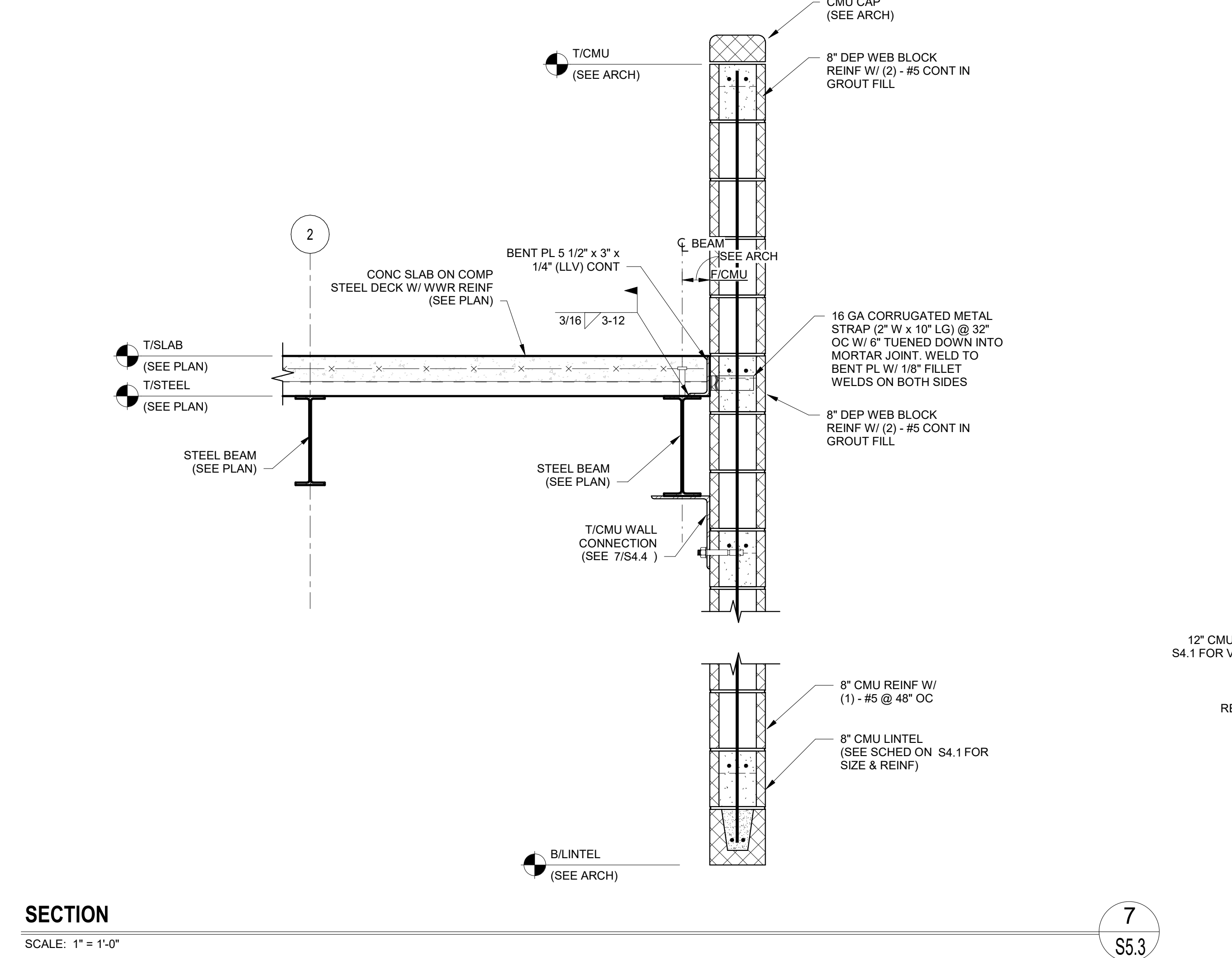
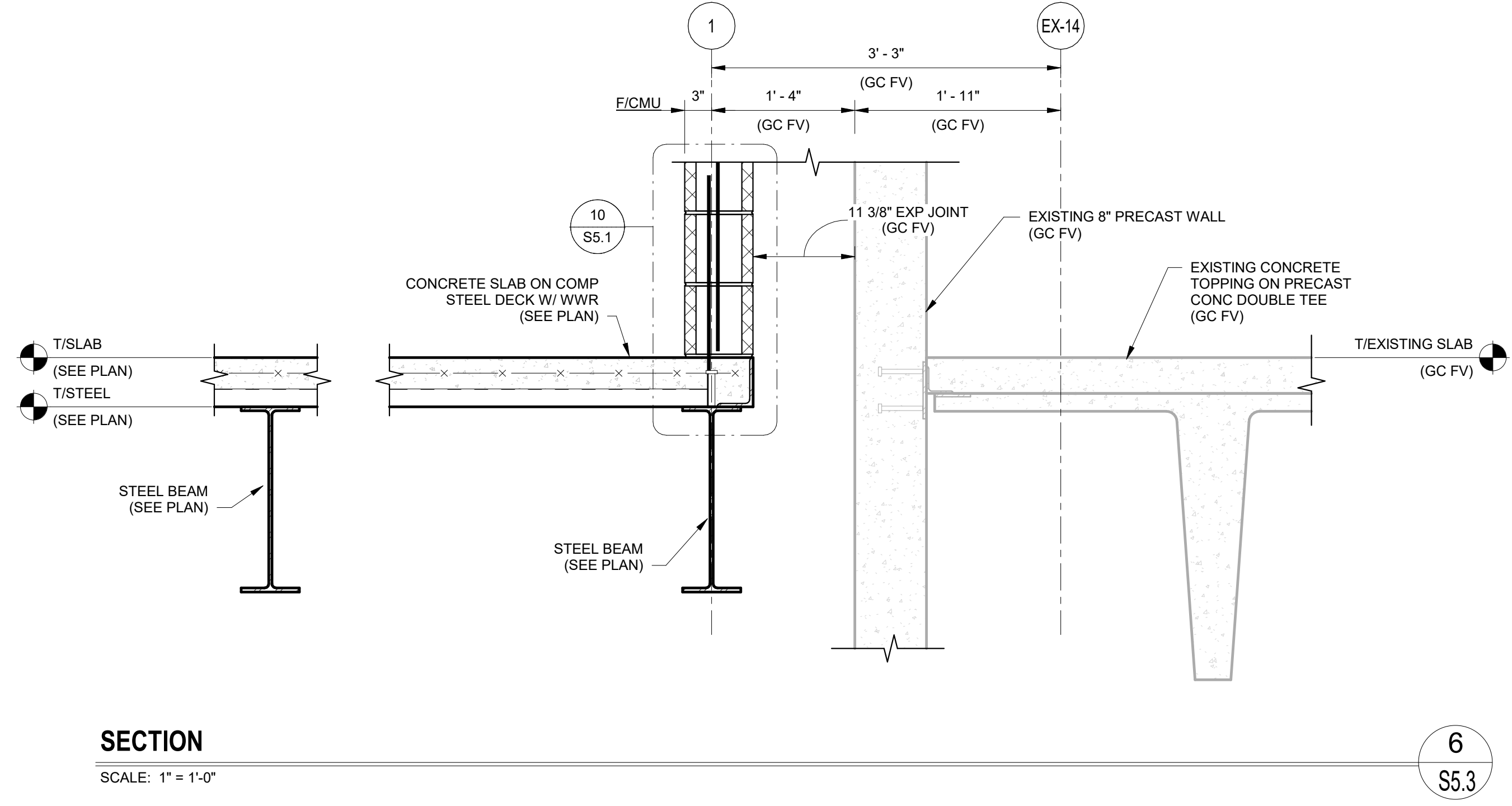
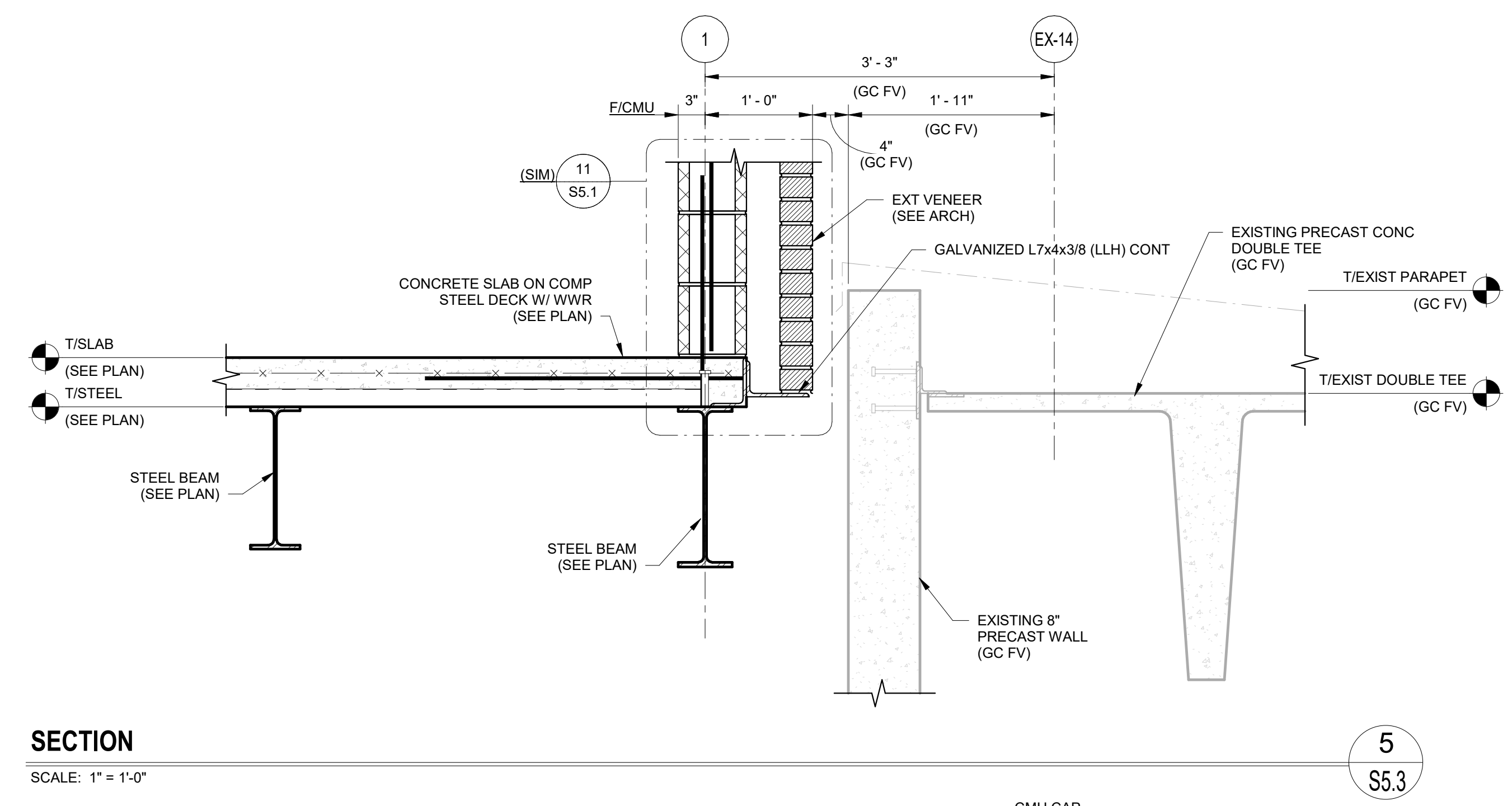
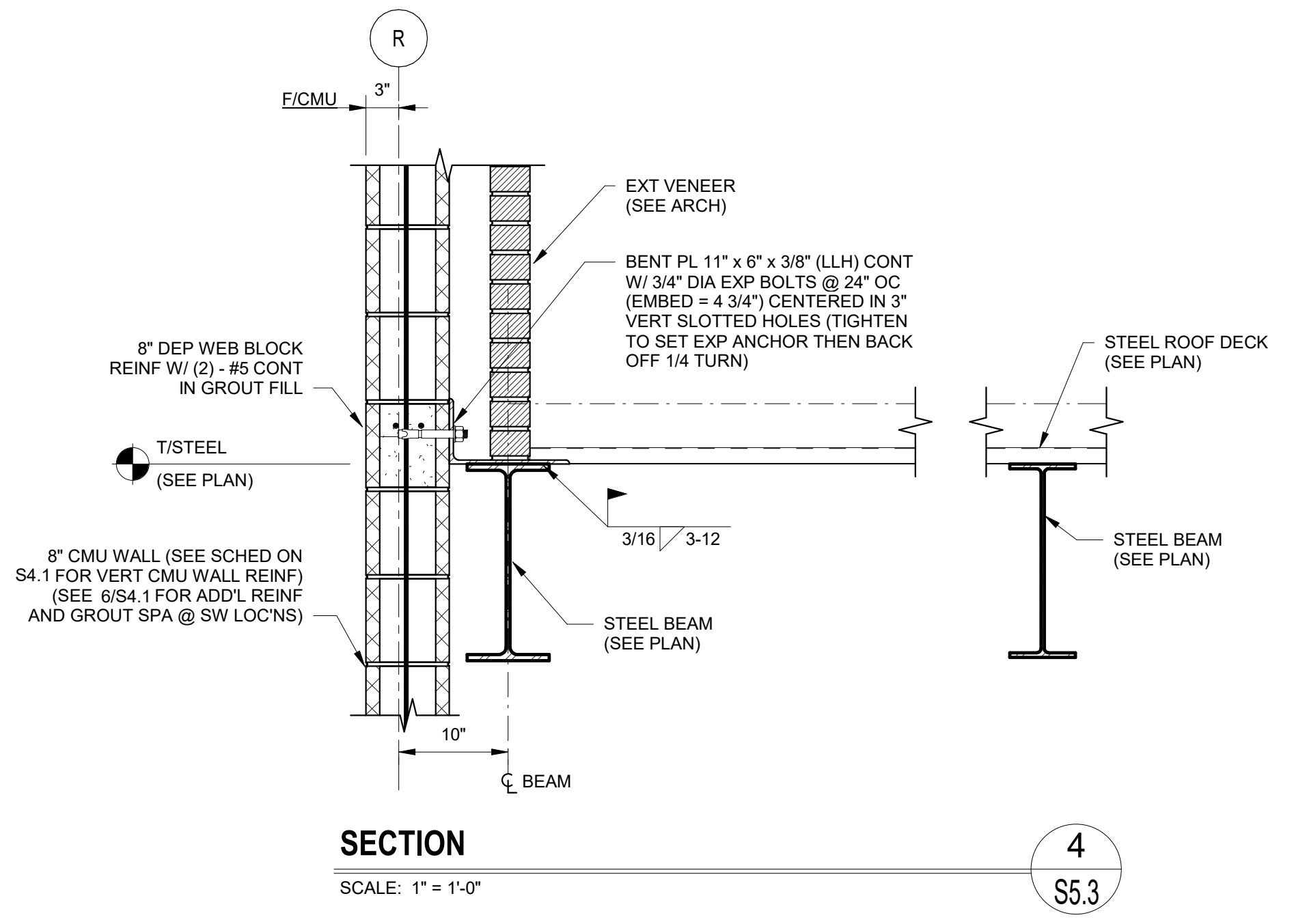
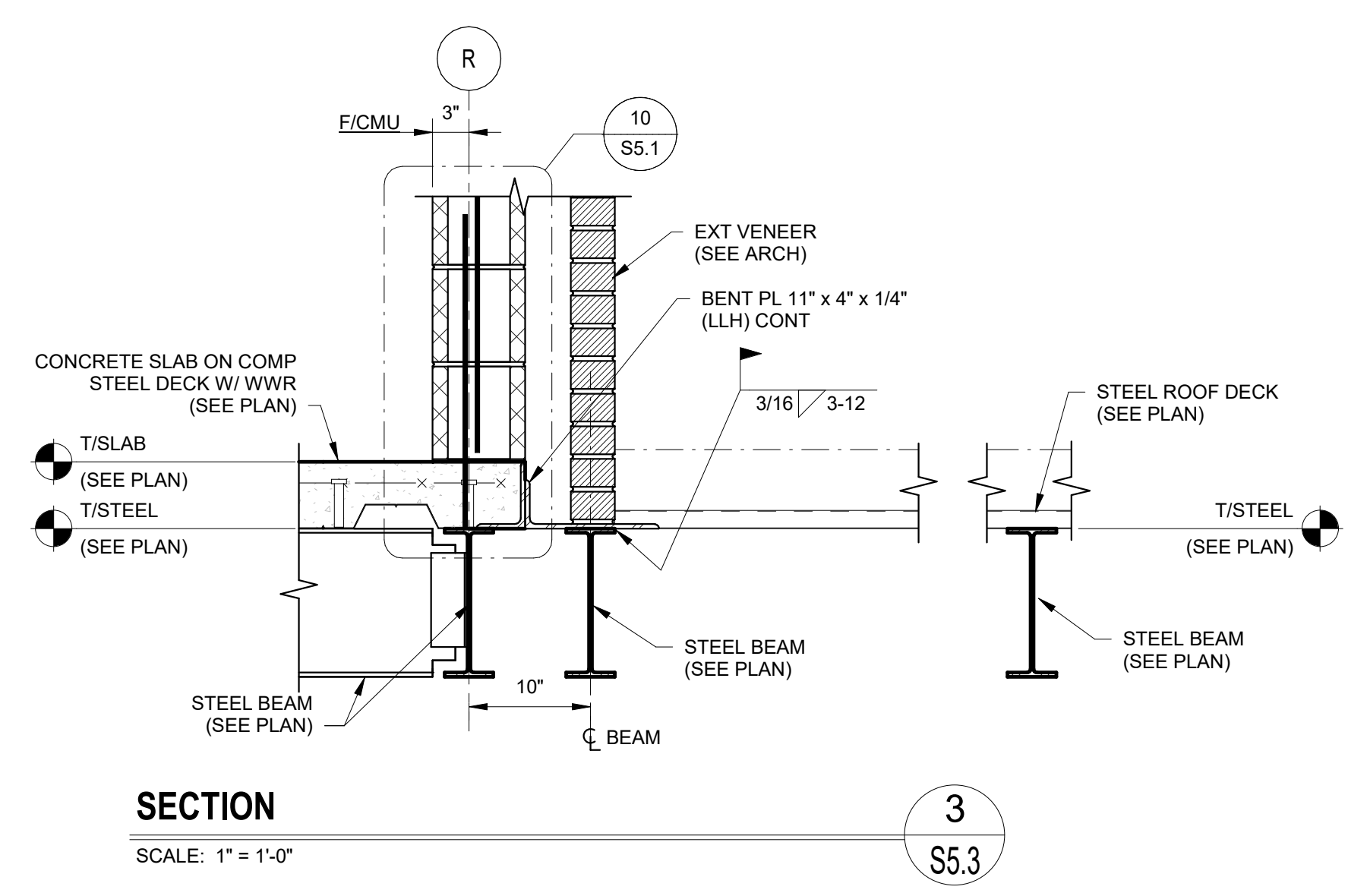
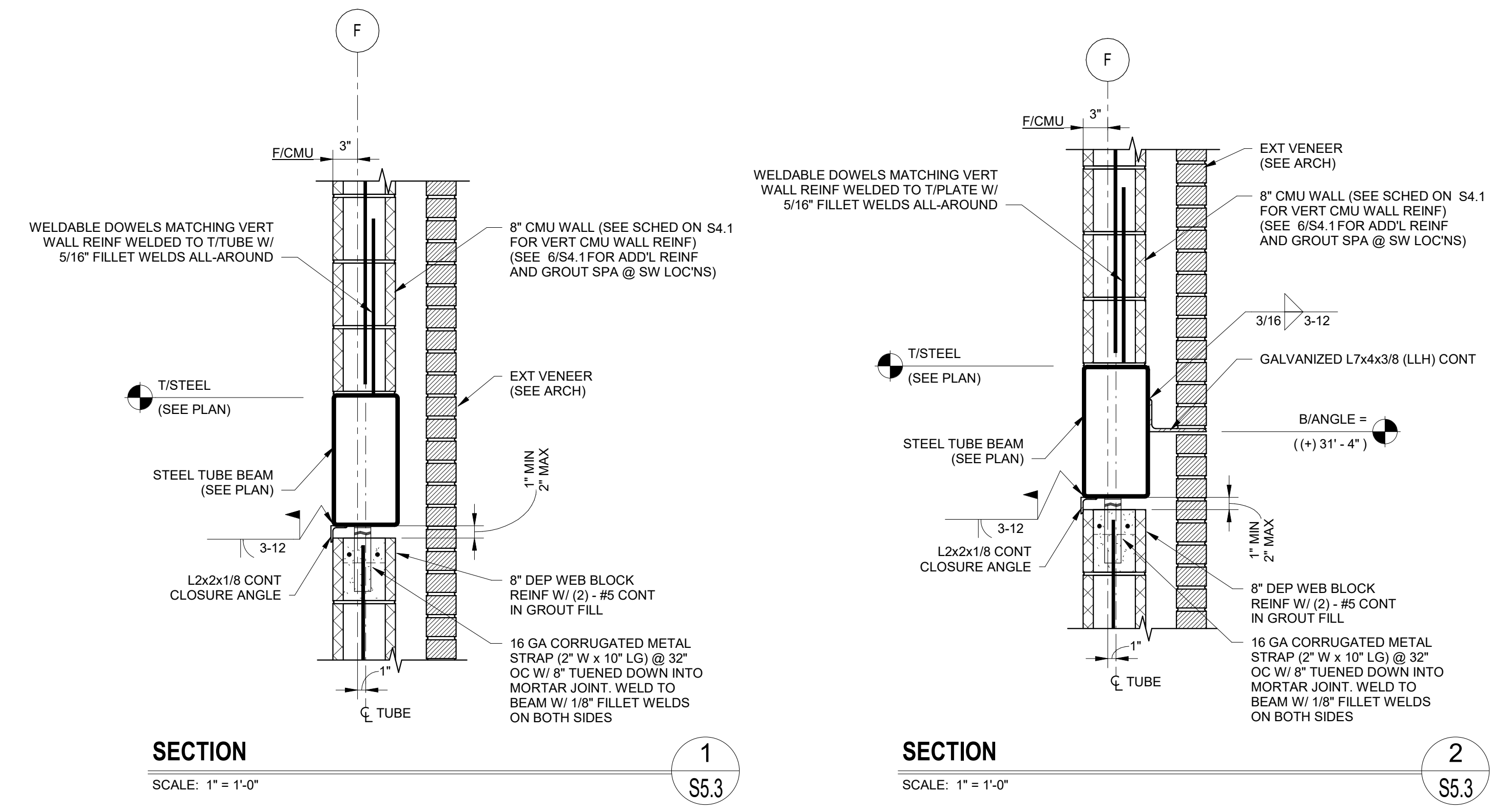
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DWG. BY: RAS

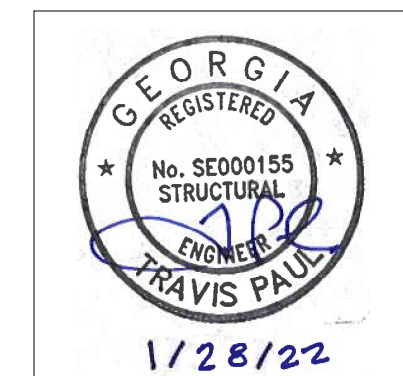
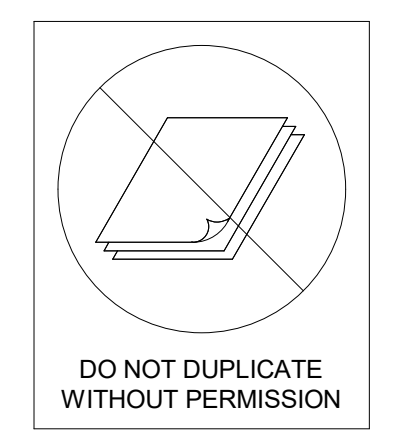
APP. NO. SHL-001-21

DATE Issue Date

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 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152



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 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022



S5.3

1/28/22

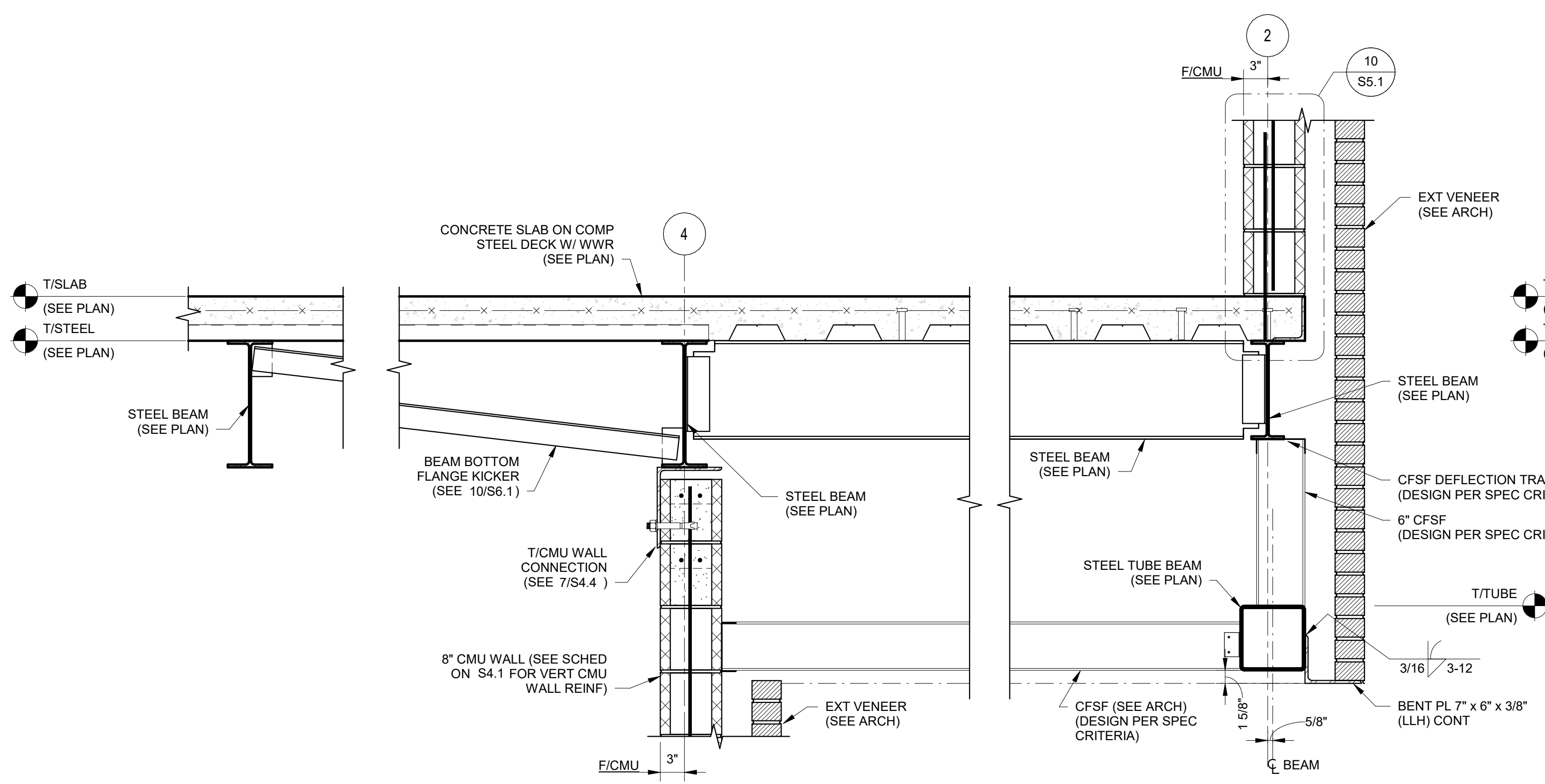


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11/30/2021	Issue For Bid	
12/16/21	Addendum No. 2	1
1/28/22	CONFORMED SET	

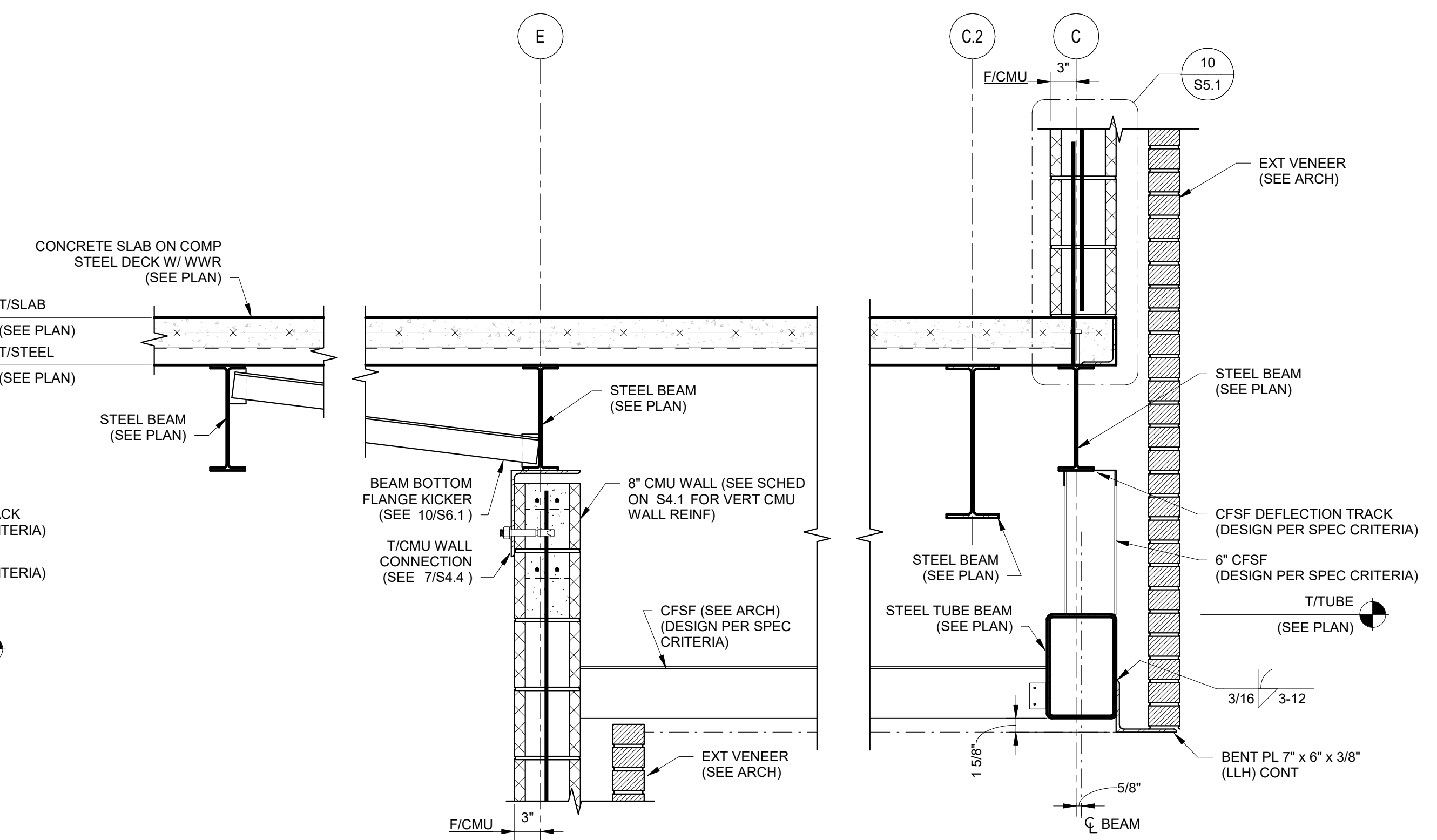
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

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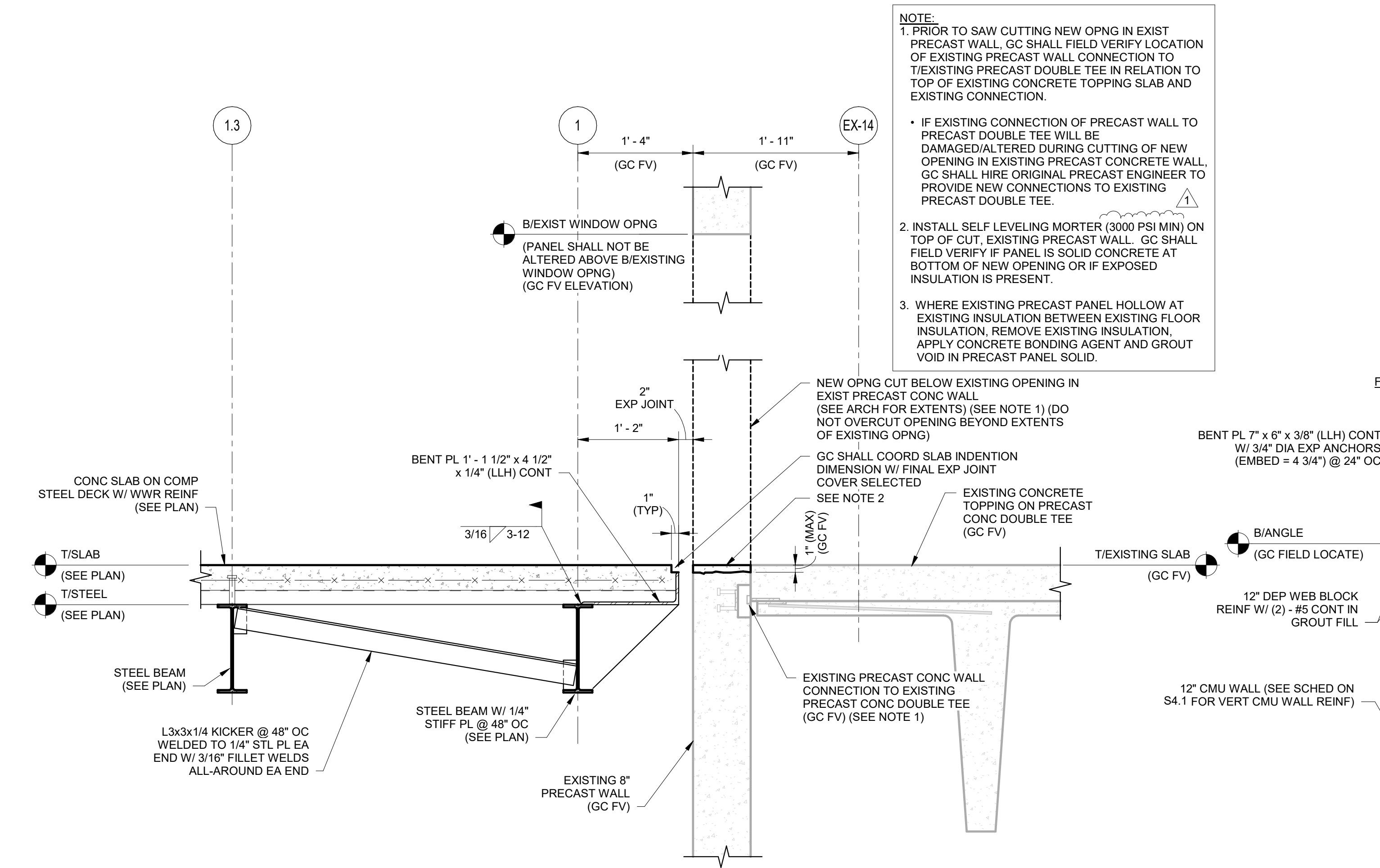
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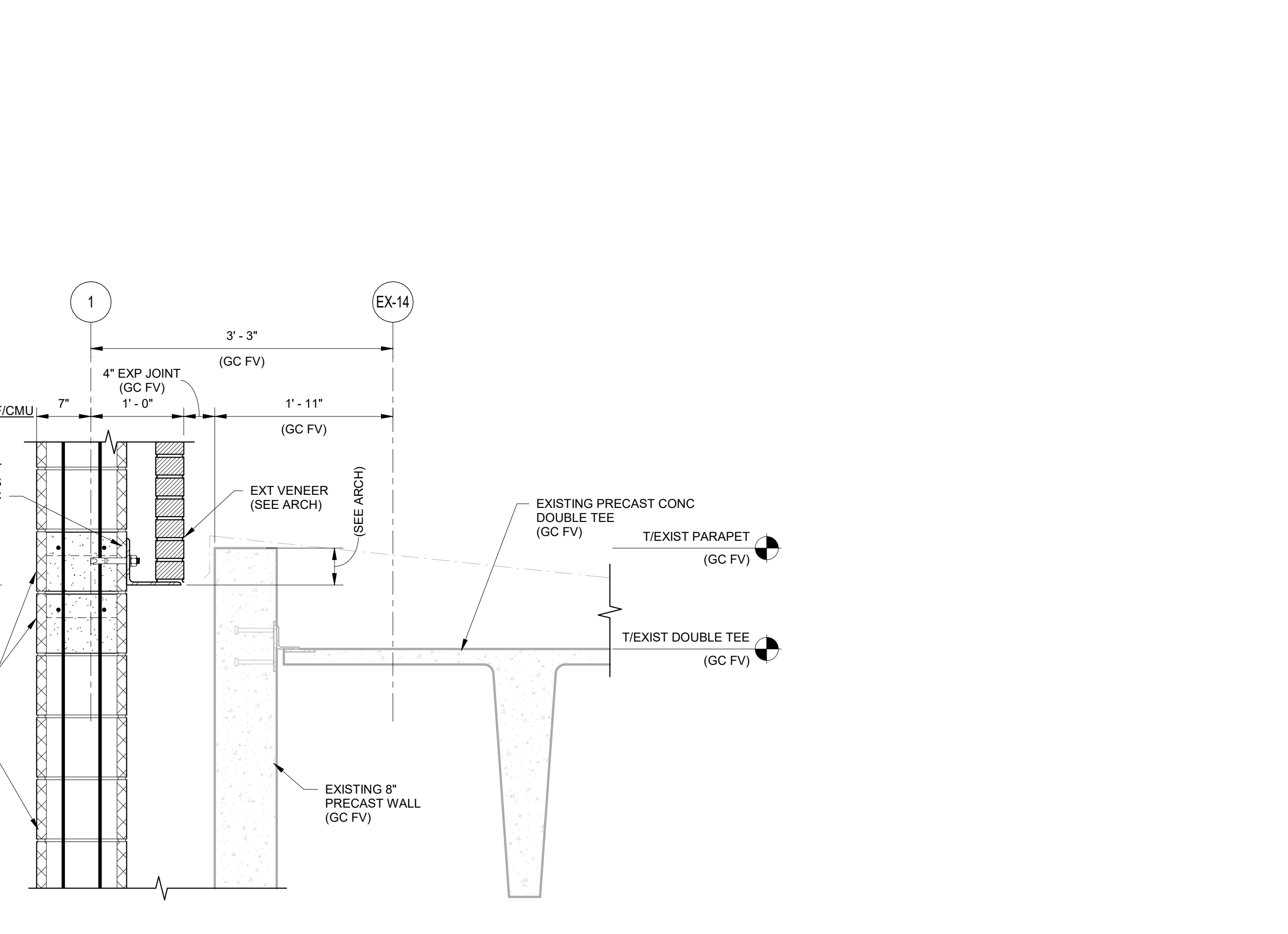
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SCALE: 1" = 1'-0"



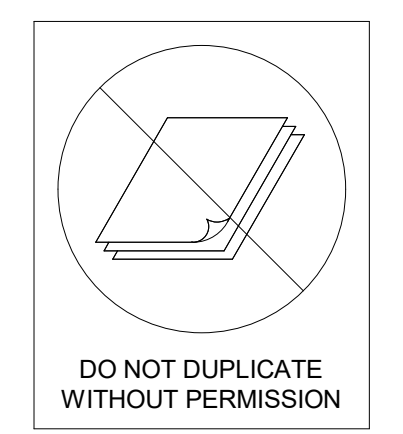
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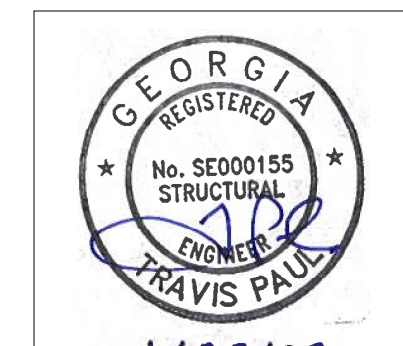
**SECTION 4**  
SCALE: 1" = 1'-0"

**NOTE:**

- PRIOR TO SAW CUTTING NEW OPNG IN EXIST PRECAST WALL, GC SHALL FIELD VERIFY LOCATION OF EXISTING PRECAST WALL CONNECTION TO EXISTING PRECAST DOUBLE TEE IN RELATION TO TOP OF EXISTING CONCRETE TOPPING SLAB AND EXISTING CONNECTION.
- IF EXISTING CONNECTION OF PRECAST WALL TO PRECAST DOUBLE TEE WILL BE DAMAGED/ALTERED DURING CUTTING OF NEW OPNG IN EXISTING PRECAST CONCRETE WALL, GC SHALL HIRE ORIGINAL PRECAST ENGINEER TO PROVIDE NEW CONNECTIONS TO EXISTING PRECAST DOUBLE TEE.
- INSTALL SELF LEVELING MORTAR (3000 PSI MIN) ON TOP OF CUT, EXISTING PRECAST WALL. GC SHALL FIELD VERIFY IF PANEL IS SOLID CONCRETE AT BOTTOM OF NEW OPENING OR IF EXPOSED INSULATION IS PRESENT.
- WHERE EXISTING PRECAST PANEL HOLLOW AT EXISTING INSULATION BETWEEN EXISTING FLOOR INSULATION, REMOVE EXISTING INSULATION, APPLY CONCRETE BONDING AGENT AND GROUT VOID IN PRECAST PANEL SOLID.



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 PES PROJECT NUMBER: 0221164  
 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022



1/28/22

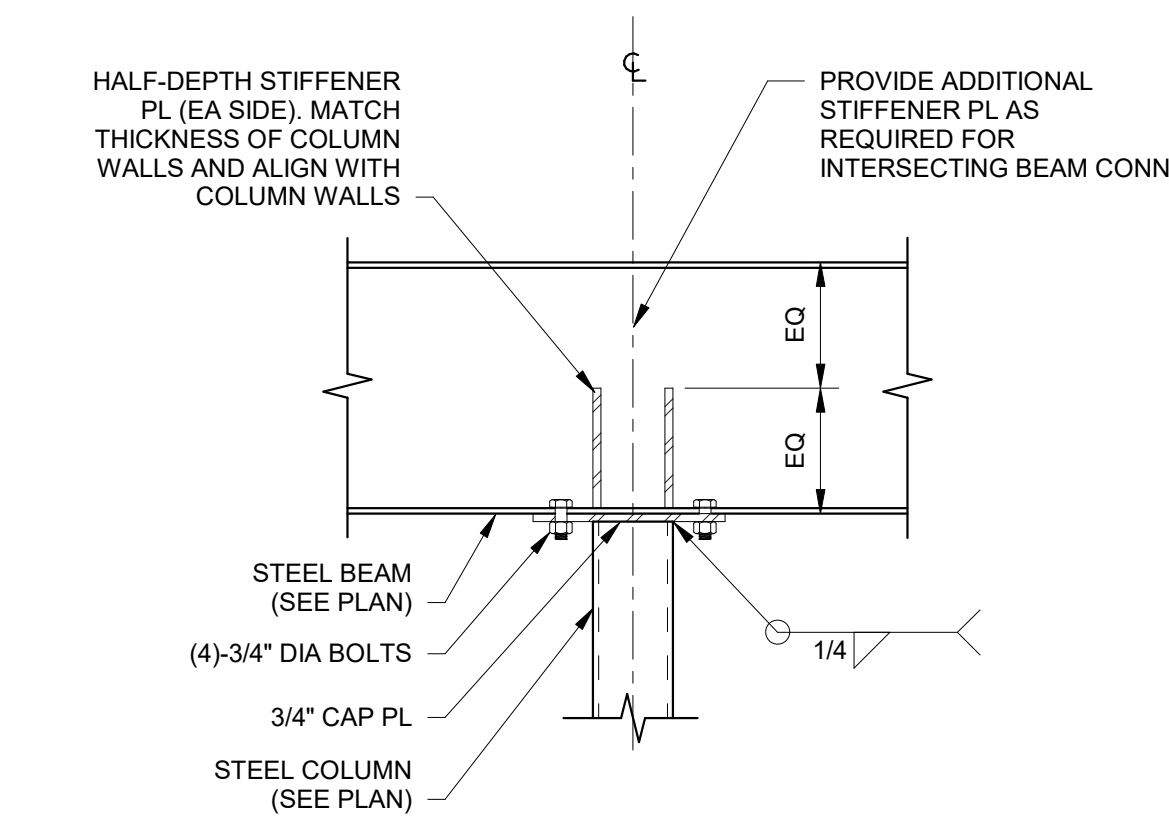
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11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
12/16/21	Addendum No. 2	1
1/28/22	CONFORMED SET	

NORTH GWINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

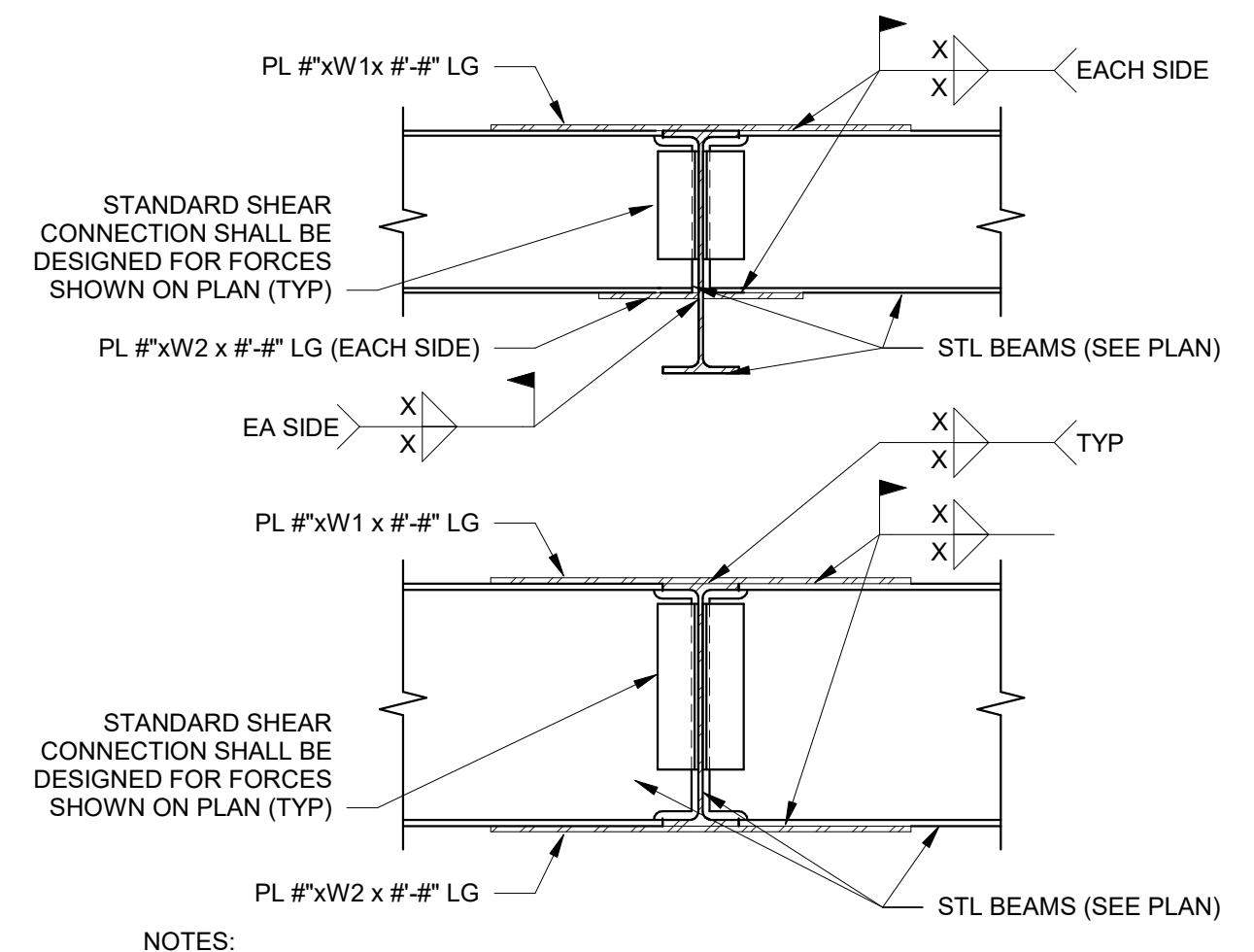
FACILITY CODE 667-4556

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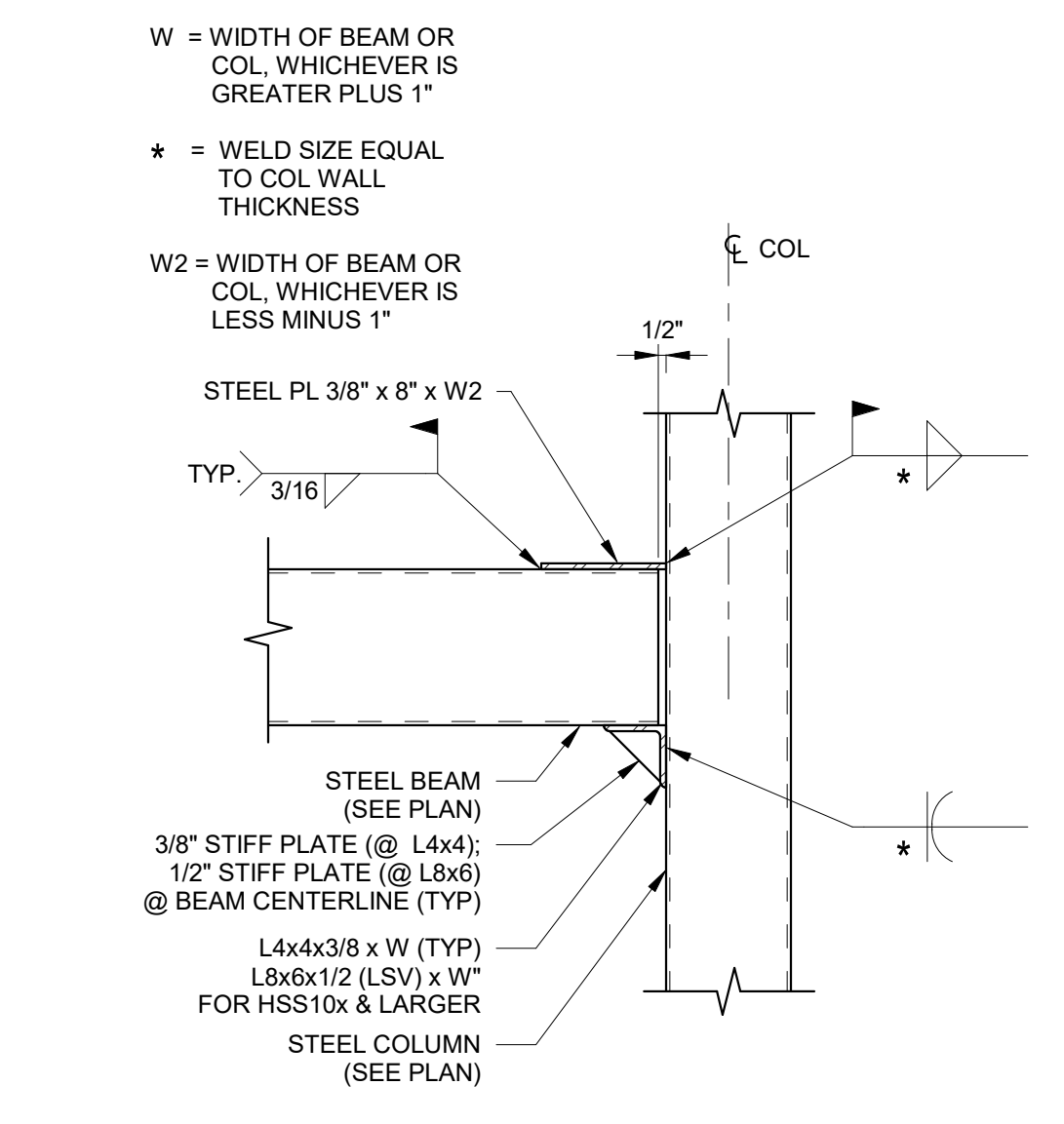
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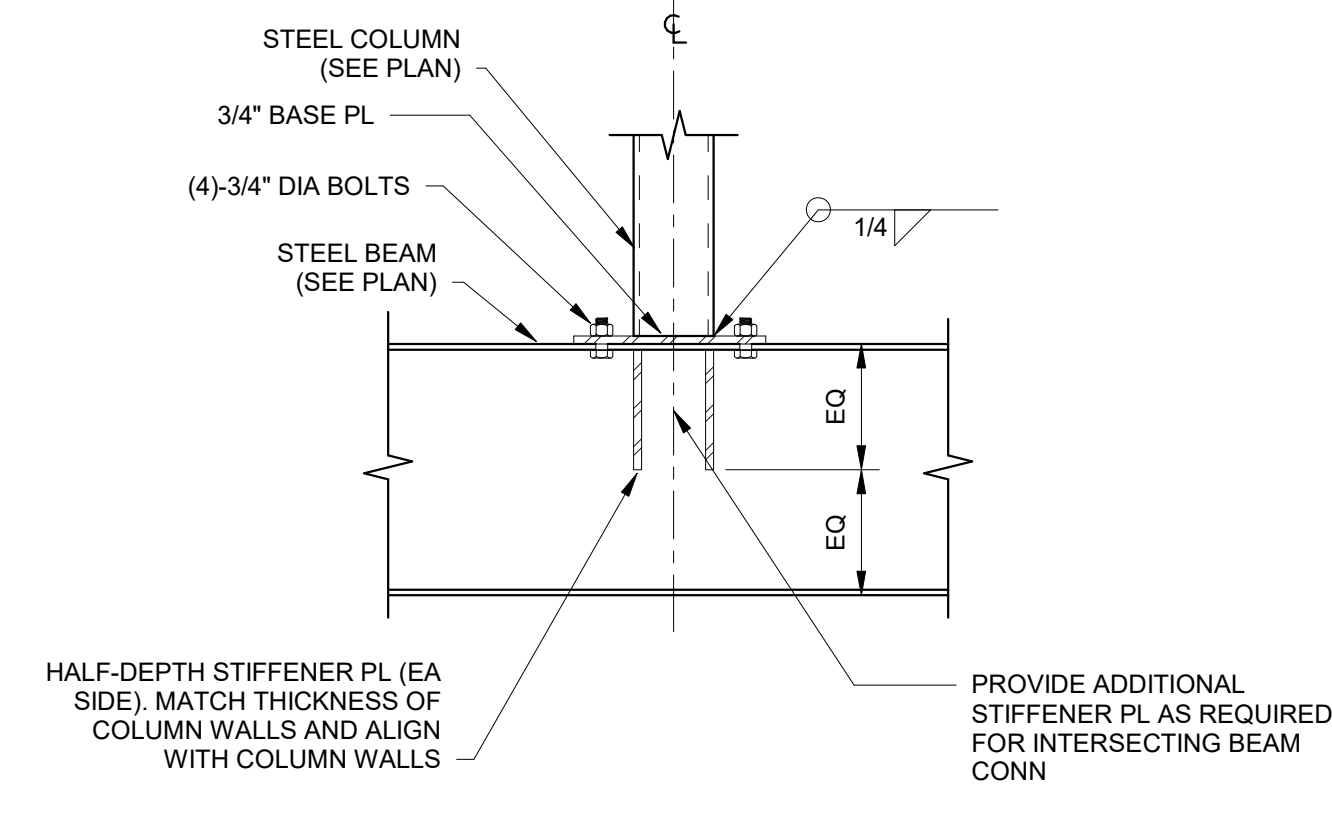
**TYPICAL CONTINUOUS BEAM TO COLUMN CONNECTIONS - DETAILS**  
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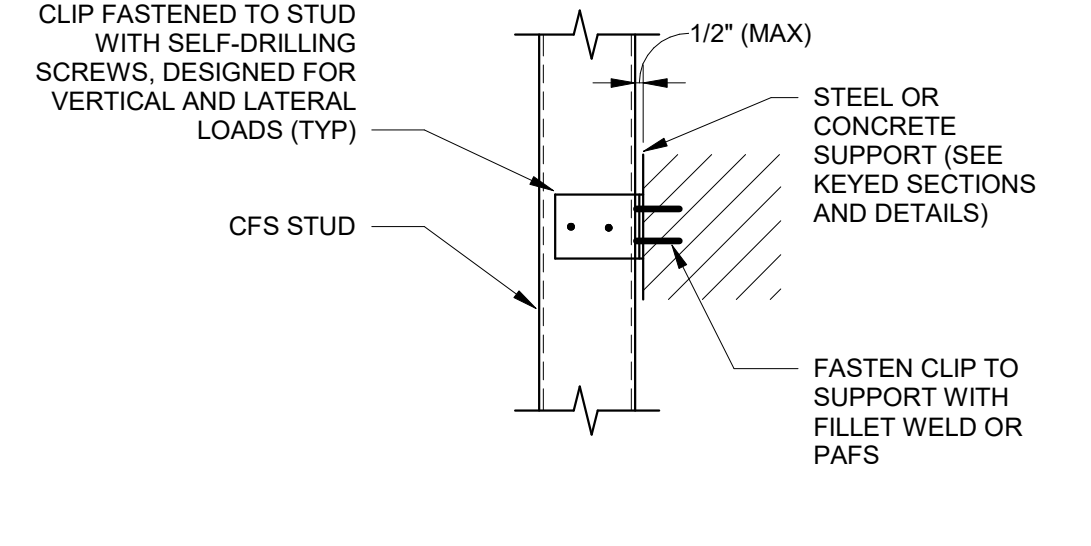
**TYPICAL BEAM THROUGH GIRDER MOMENT CONNECTIONS - SECTION**  
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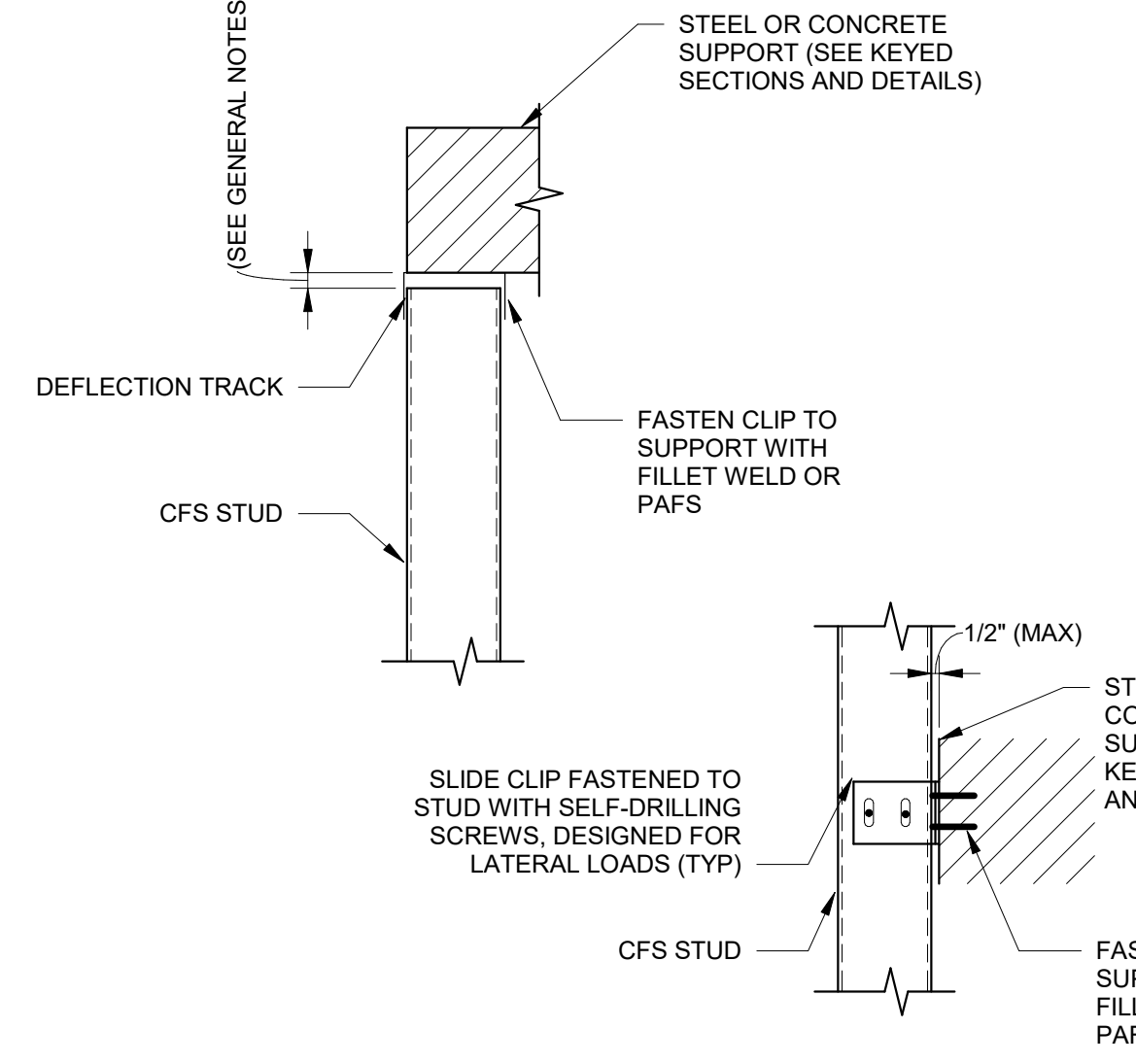
**TYPICAL TUBE BEAM TO COL CONNECTION**  
 SCALE: 1" = 1'-0"



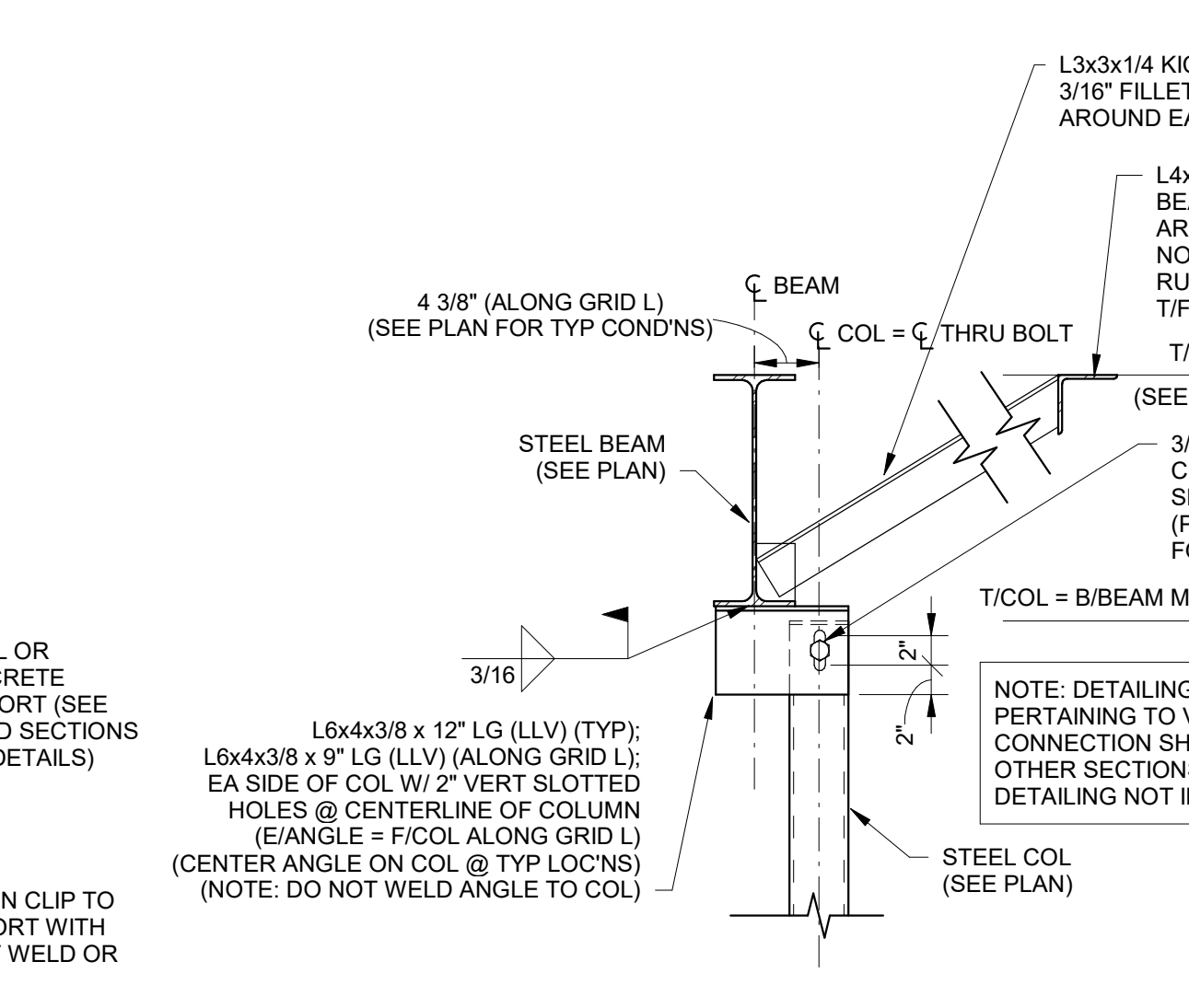
**TYPICAL HSS COLUMN-TO-TRANSFER BEAM CONNECTION**  
 SCALE: 1" = 1'-0"



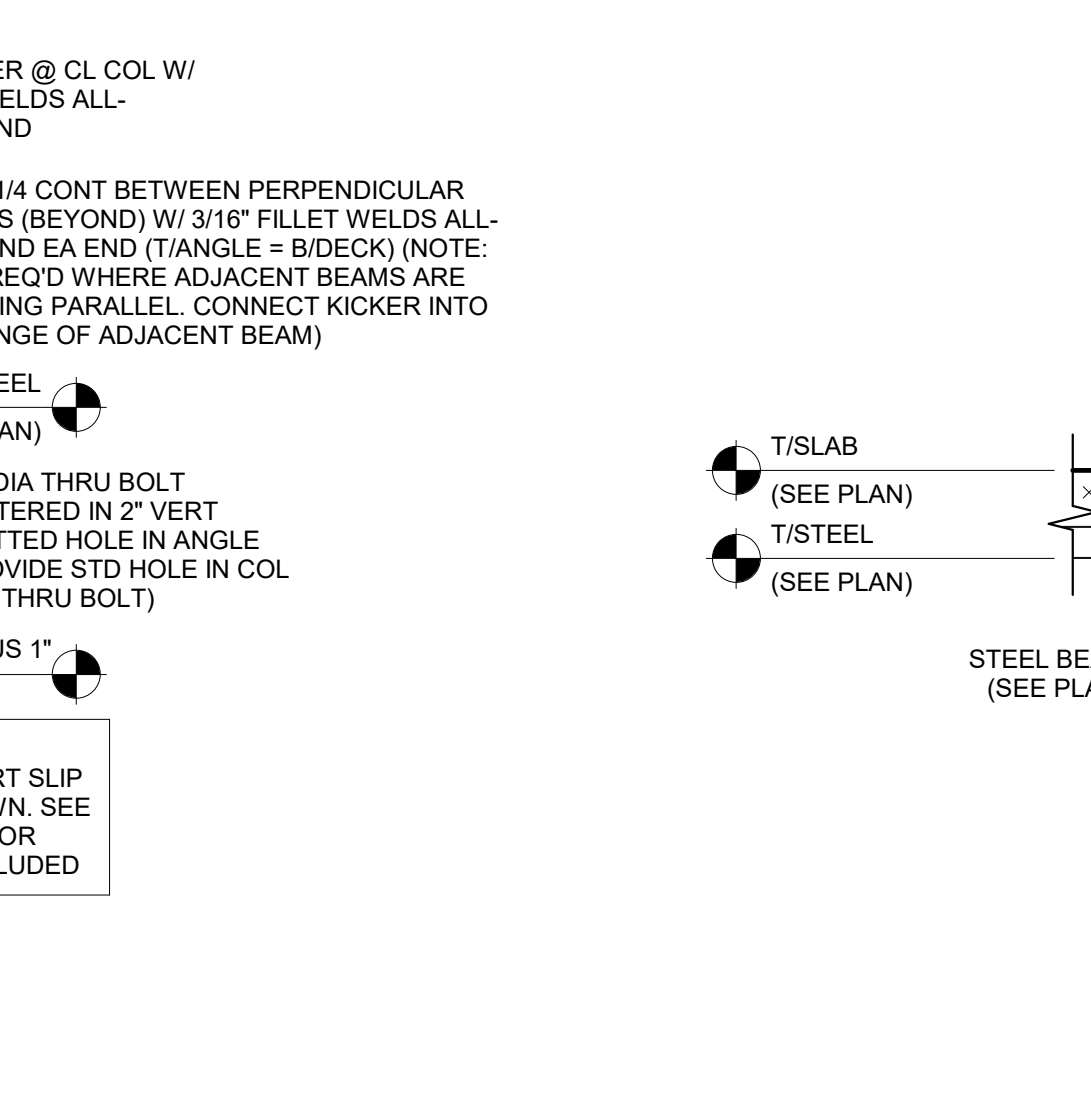
**TYPICAL RIGID STUD CONNECTION - SECTION**  
 SCALE: 1" = 1'-0"



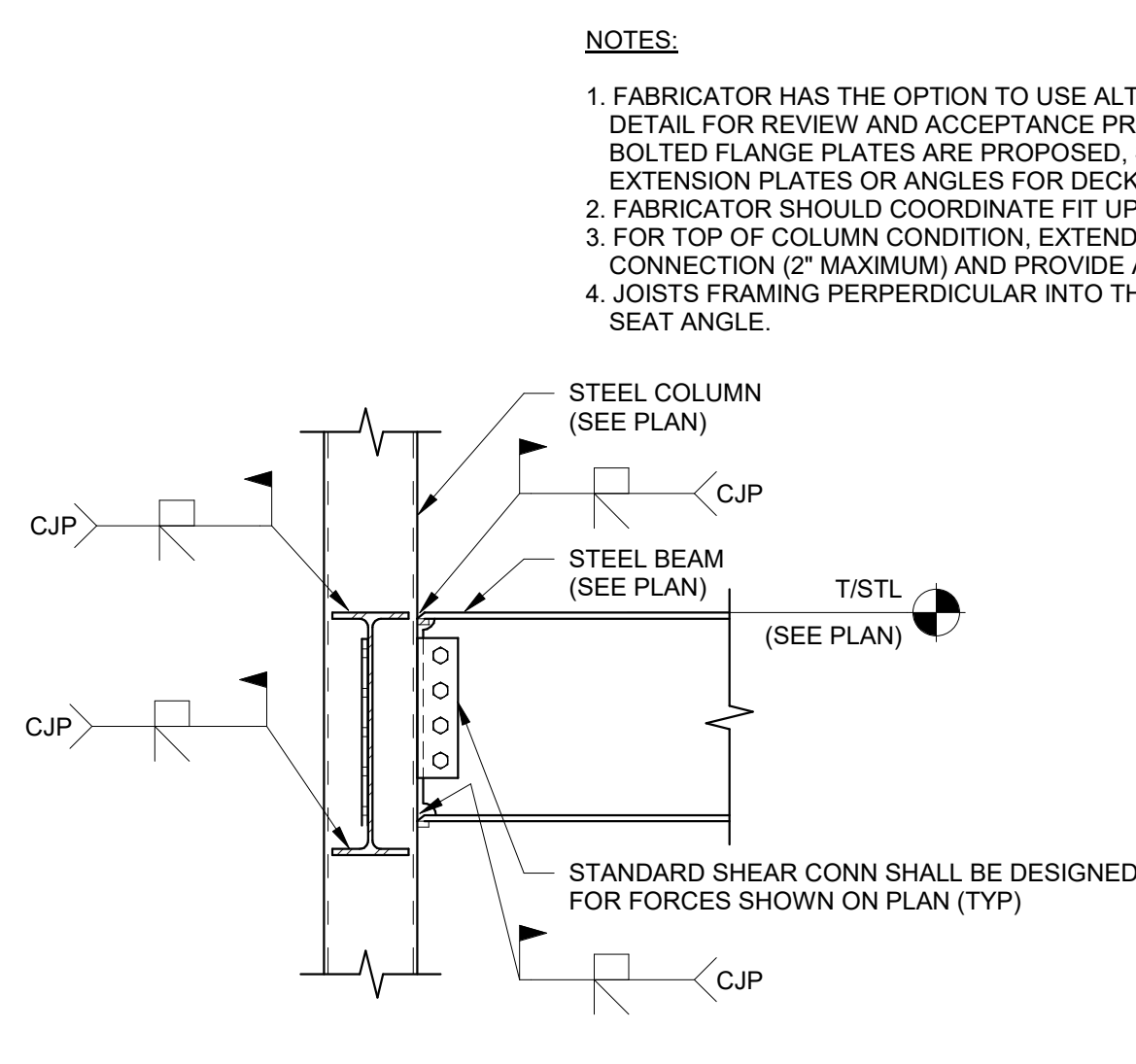
**TYPICAL VERTICAL DEFLECTION STUD CONNECTIONS - SECTION**  
 SCALE: 1" = 1'-0"



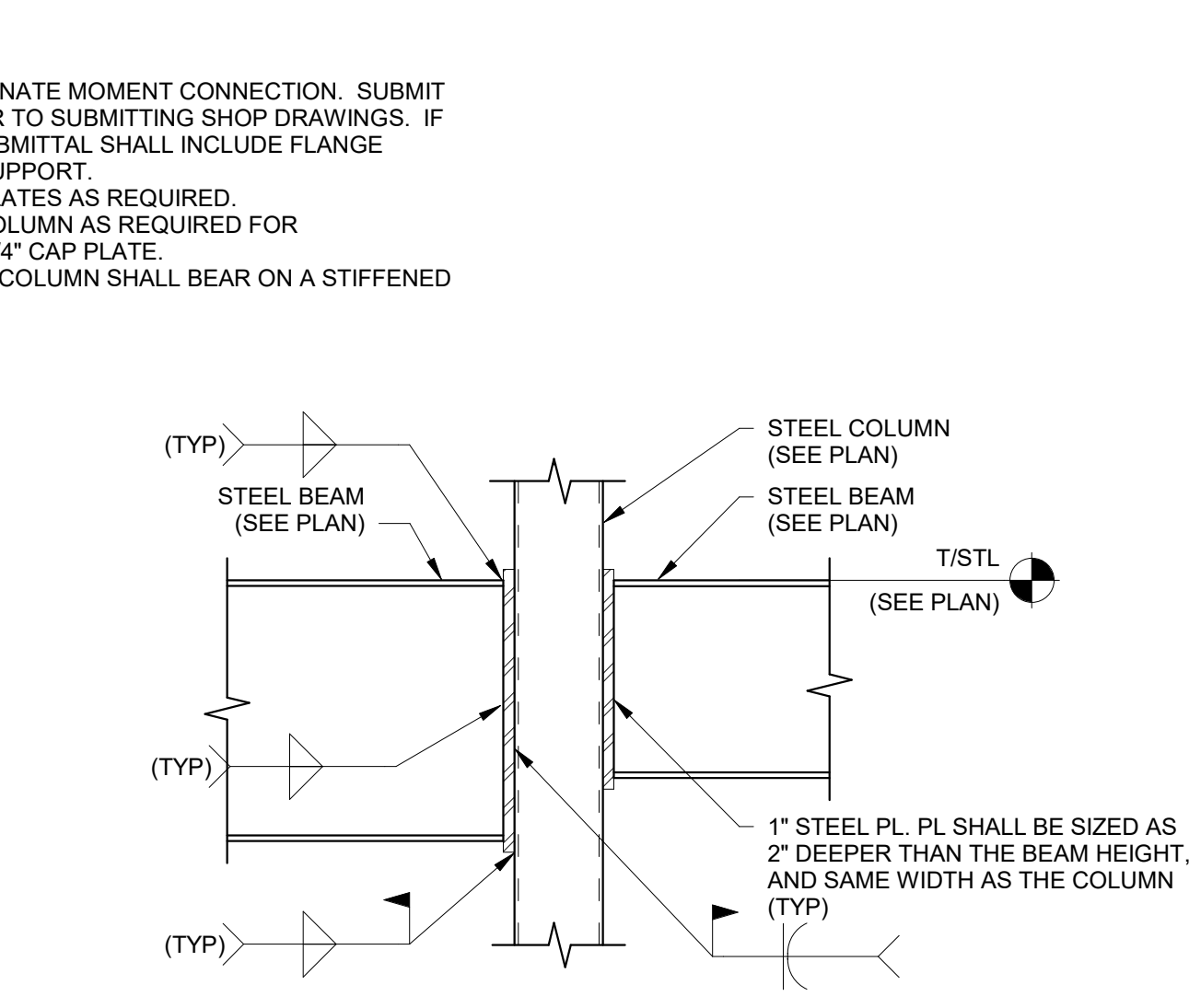
**TYP VERT SLIP CONN @ COLUMNS @ UNDERSIDE OF STEEL BEAM**  
 SCALE: 1" = 1'-0"



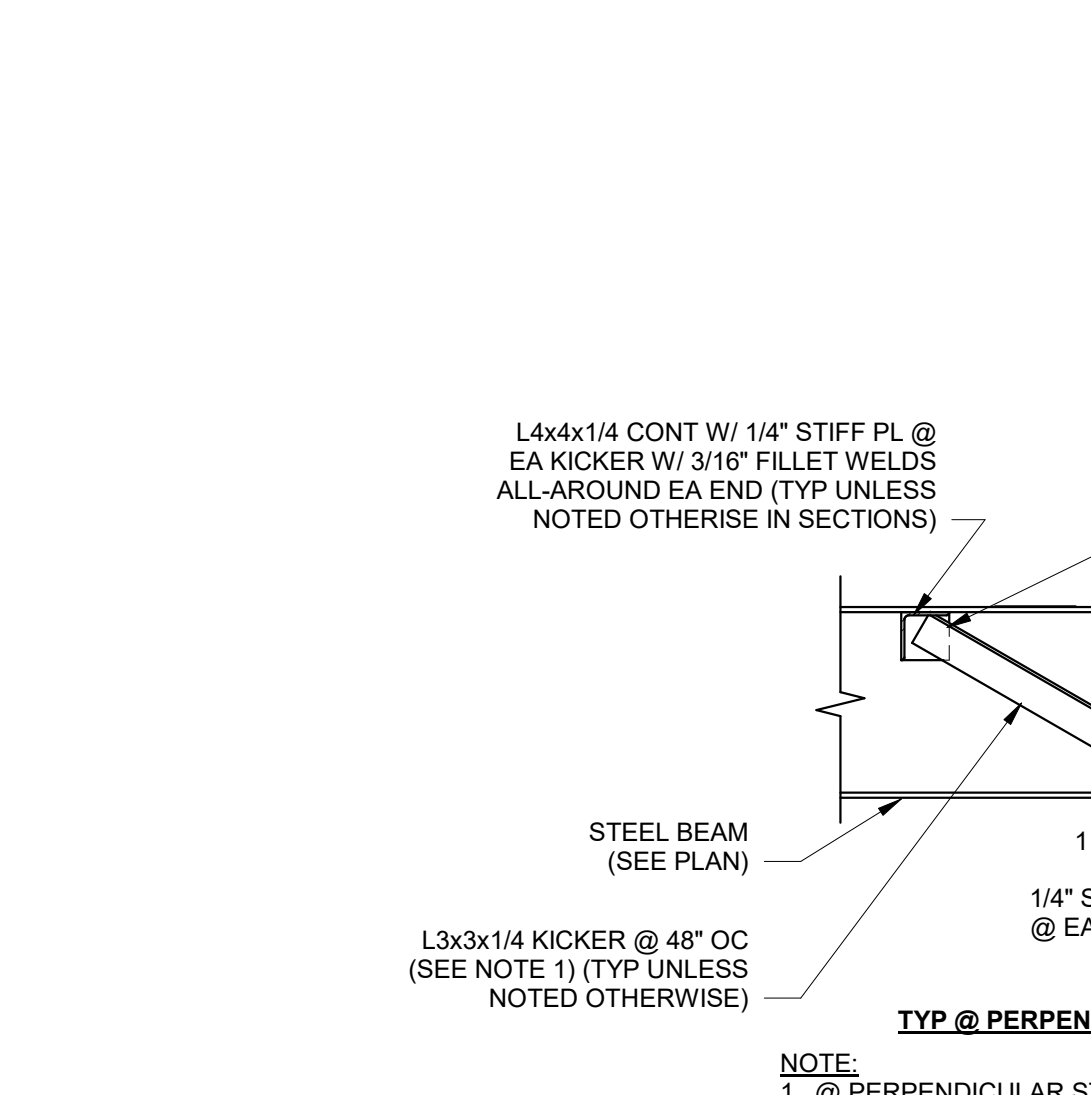
**TYP VERT SLIP CONN @ COLUMNS @ UNDERSIDE OF STEEL DECK**  
 SCALE: 1" = 1'-0"



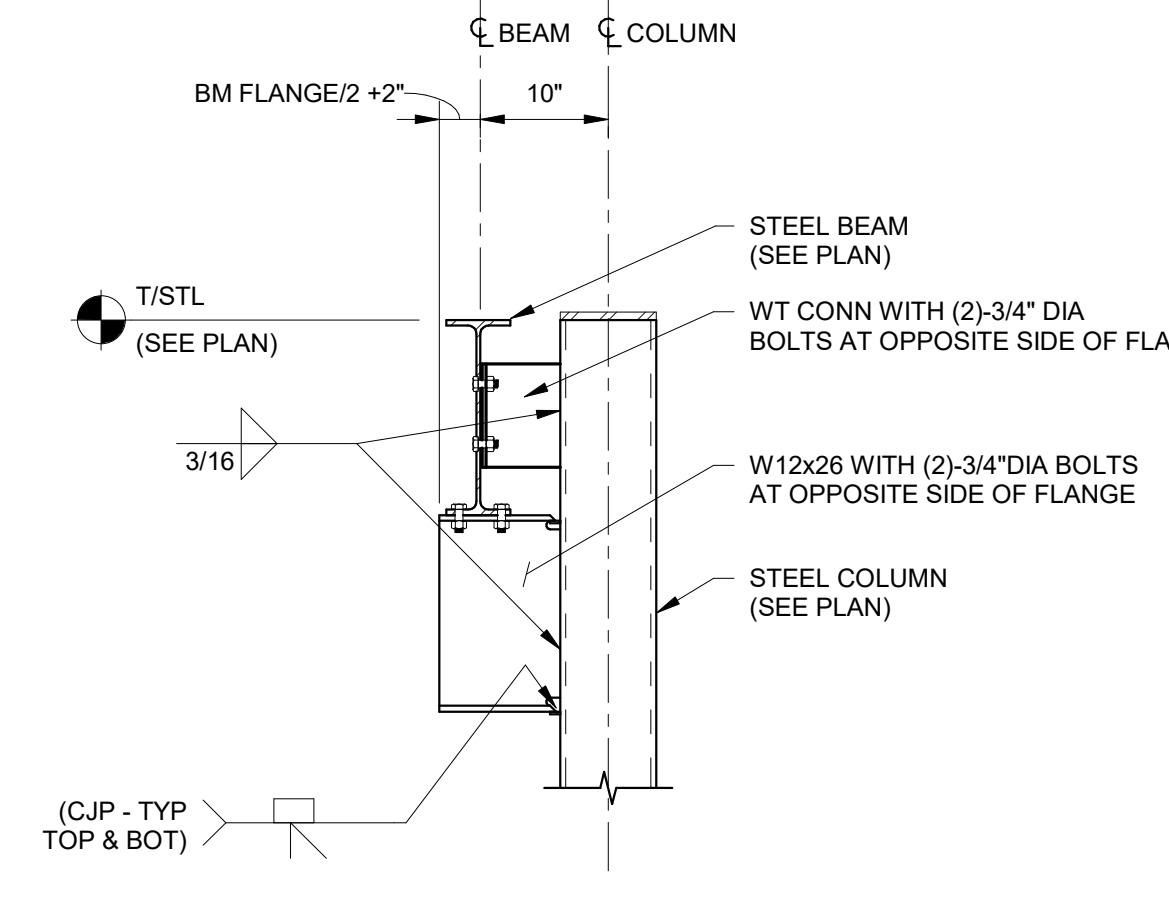
**TYPICAL WIDE FLANGE BEAM TO HSS COLUMN MOMENT CONNECTIONS - SECTION**  
 SCALE: 3/4" = 1'-0"



**TYPICAL BEAM BRACING - SECTION**  
 SCALE: 3/4" = 1'-0"



**TYPICAL PARALLEL STEEL BEAM**  
 SCALE: 3/4" = 1'-0"

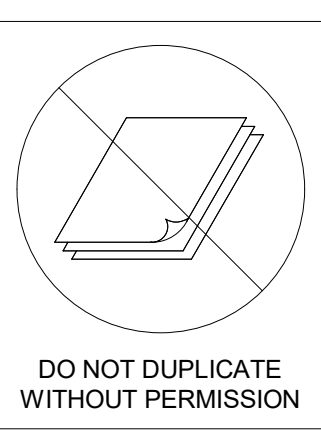


**TYPICAL OFFSET BEAM SEAT CONNECTION - DETAIL**  
 SCALE: 1" = 1'-0"

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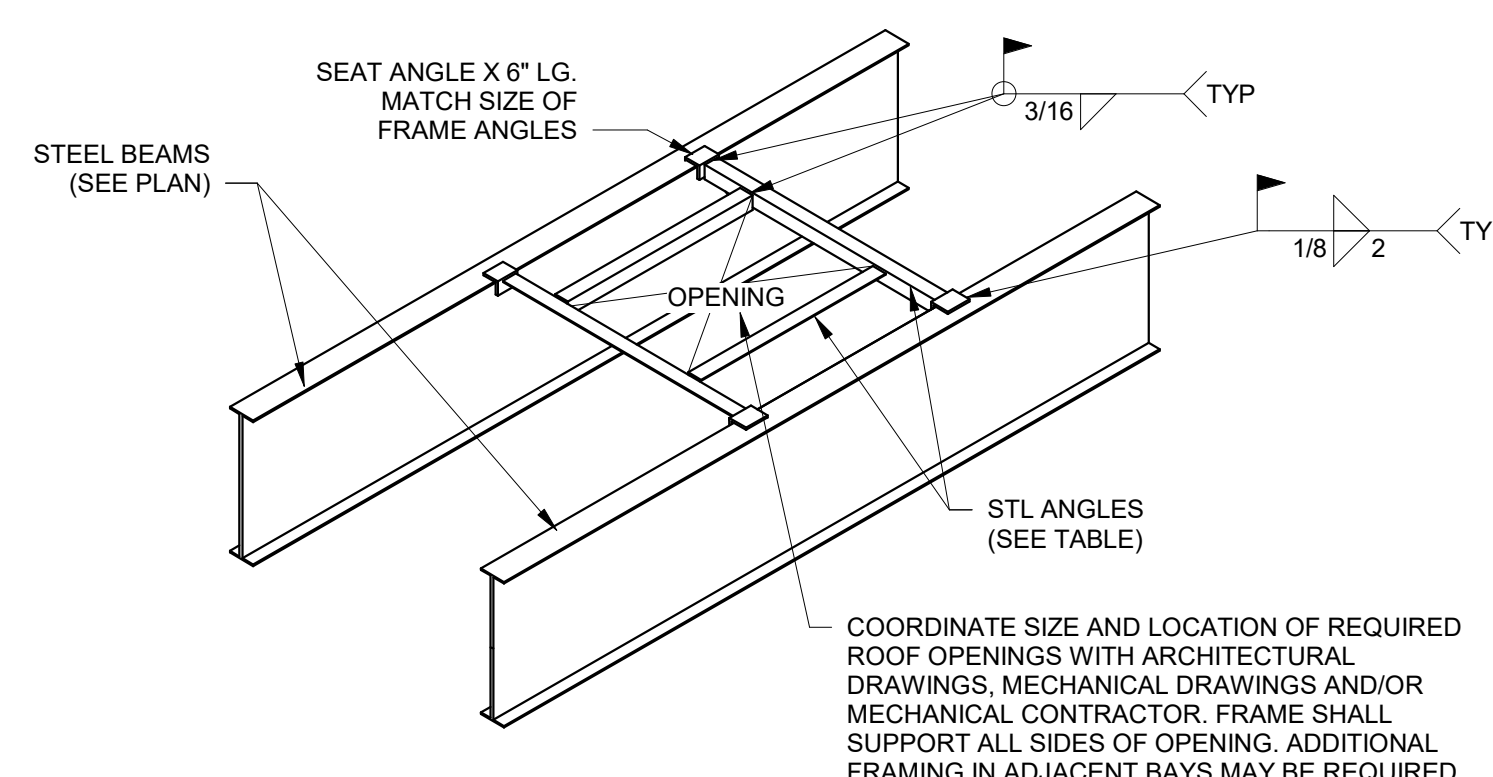
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 PHONE: 770-457-5923 FAX: 770-457-5999 WEB: www.pesengineers.com

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 PES GEORGIA COA NUMBER: PEF000799  
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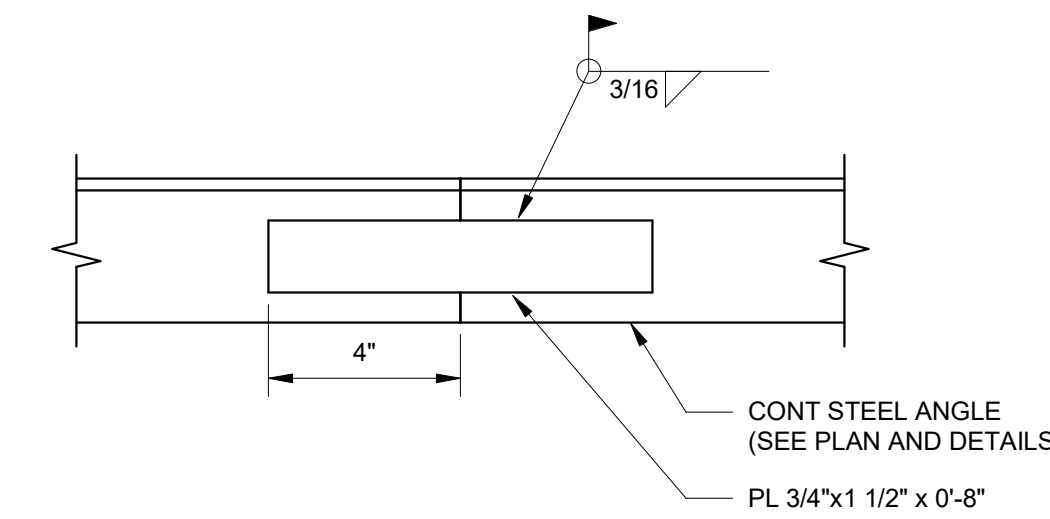
SPAN	ANGLE SIZE
UP TO 4'-0"	L3X3X3/16
4'-1" TO 6'-0"	L4X3X1/4 (LLV)
6'-1" TO 8'-0"	L5X3X1/4 (LLV)
8'-1" TO 10'-0"	L6X4X5/16 (LLV)

- NOTES:
1. PROVIDE FRAMING AT ROOF DRAINS.
  2. WELD/CONNECT DECK TO ALL FRAMING AT 6" OC MAXIMUM SPACING. COORDINATE WITH ENGINEER FOR SPECIAL DETAILS REQUIRED TO CONNECT ANGLES TO EXISTING DECK IN AN INSTALLATION OF NEW UNIT ON EXISTING ROOF FRAMING.
  3. WHEN BEAM BRIDGING CONFLICTS WITH ROOF OPENING FRAMES, STOP BRIDGING AT EACH SIDE OF OPENING, PROVIDE CROSS BRIDGING AT LAST BRIDGING SPACE EACH SIDE OF OPENING AND CONNECT ENDS OF BRIDGING TO OPENING FRAMING. ADD ADDITIONAL BRIDGING AND CROSS BRIDGING ON EACH SIDE OF OPENING ON EACH SIDE OF CUT BRIDGING AREA WITH BRIDGING EXTENDED ONE BAY BEYOND EACH SIDE OF OPENING.
  4. ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).
  5. THIS DETAIL IS NOT APPLICABLE TO ROOFTOP EQUIPMENT CURBS. REFER TO TYPICAL EQUIPMENT CURB SUPPORT DETAIL FOR CURB SUPPORT FRAMING.

TYPICAL ROOF OPENING DECK SUPPORT FRAMING - ISOMETRIC

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

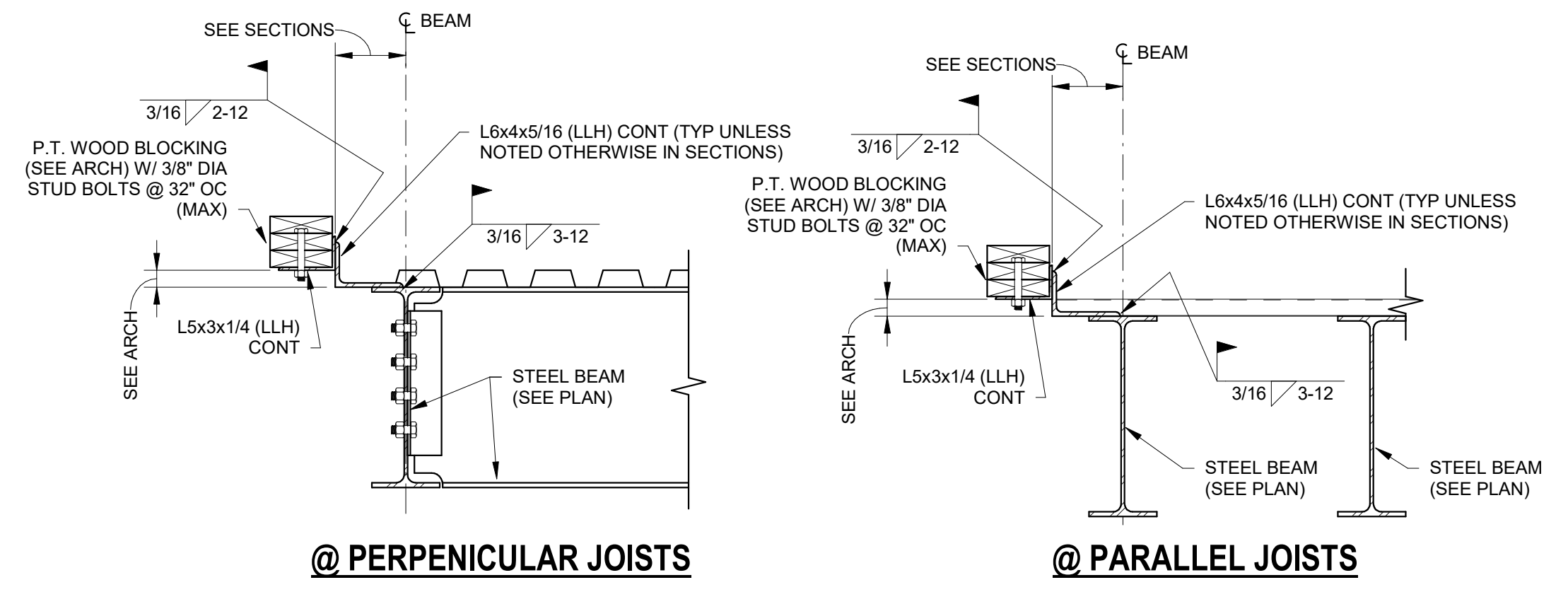
1  
S6.2



TYPICAL CONTINUOUS ROOF ANGLE SPLICE - SECTION

SCALE: 3" = 1'-0"

2  
S6.2



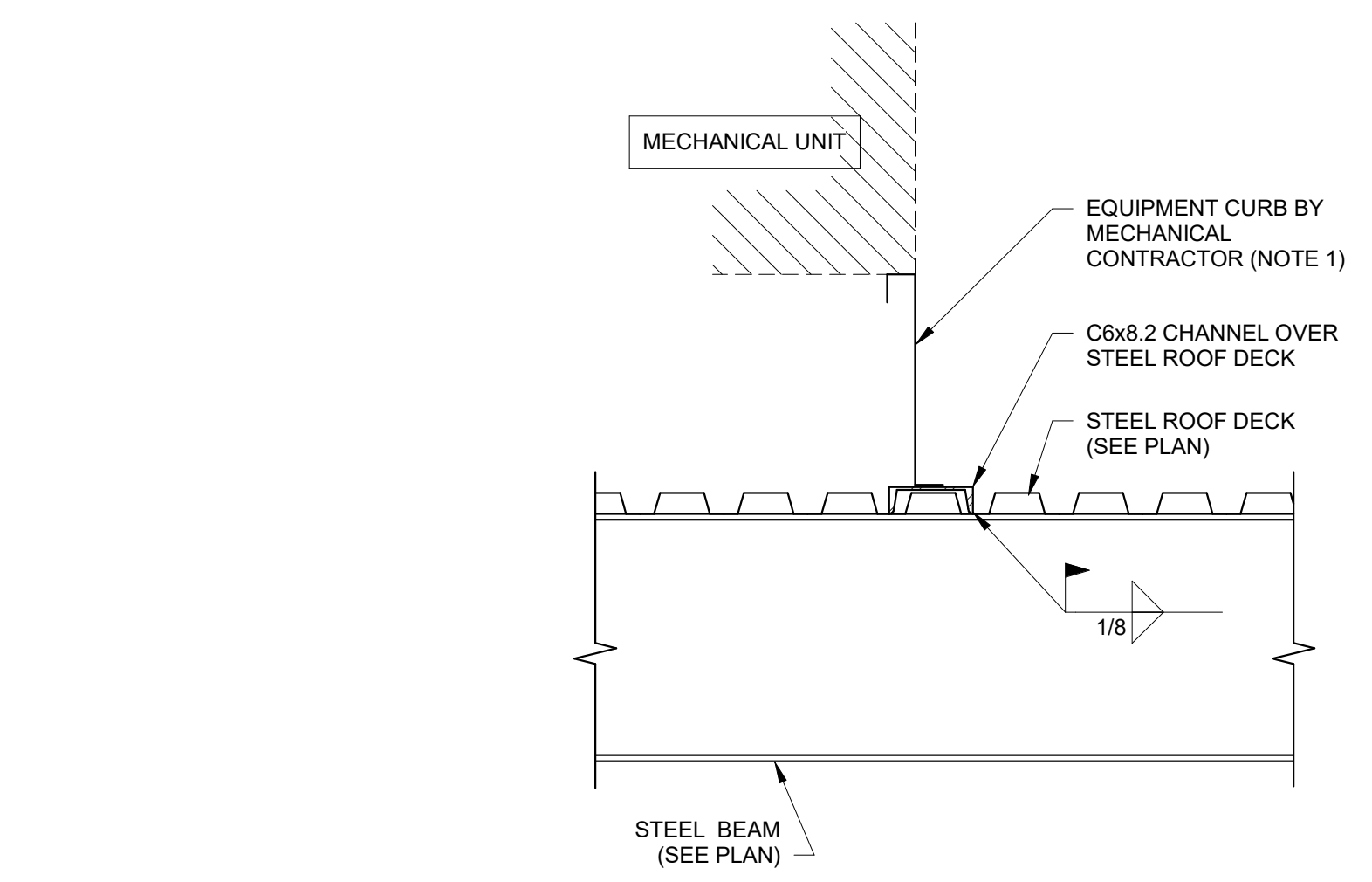
@ PERPENDICULAR JOISTS

@ PARALLEL JOISTS

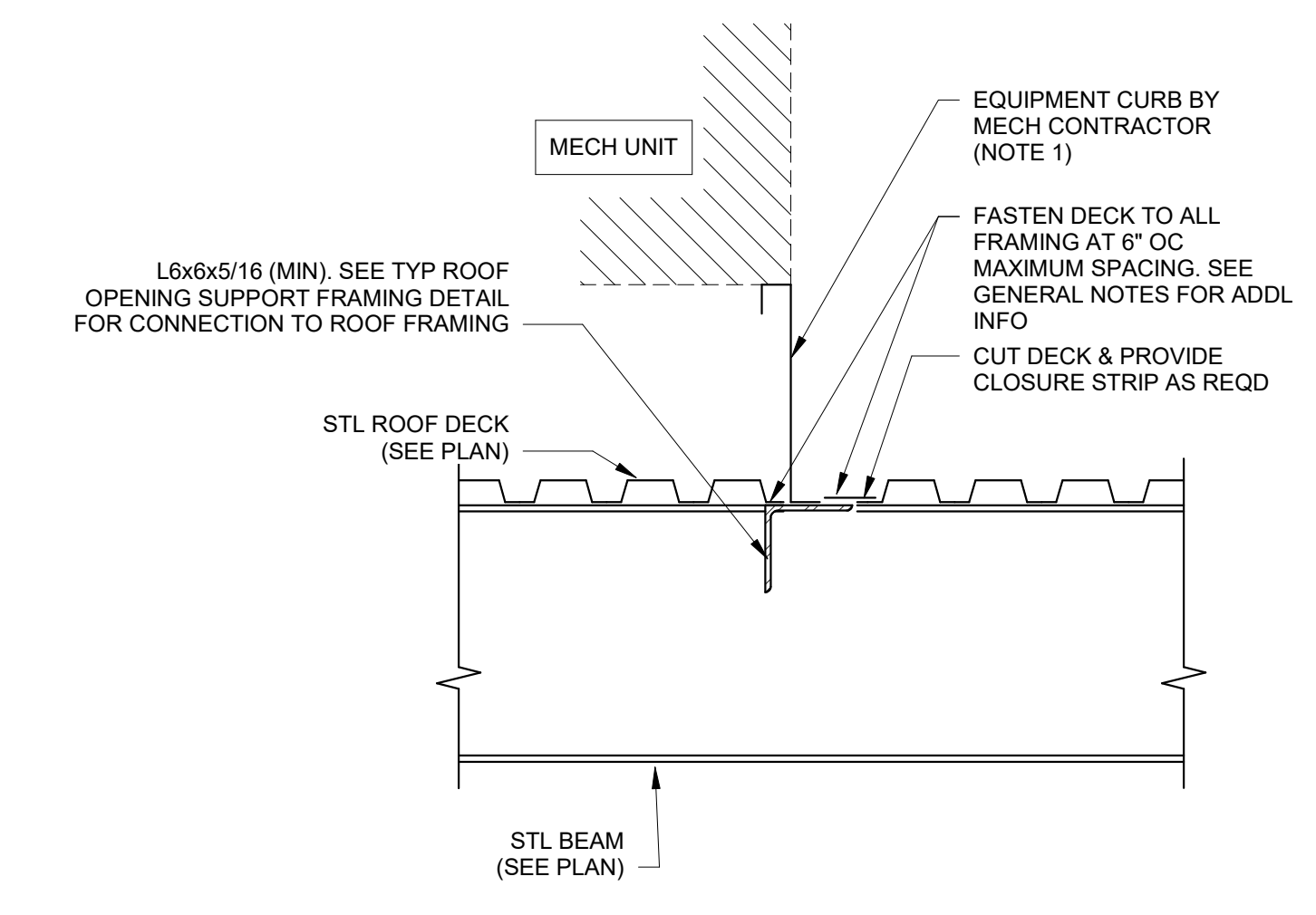
TYPICAL ROOF DECK EDGE ANGLE

SCALE: 1" = 1'-0"

3  
S6.2



UNIT WEIGHT > 3000 LBS



UNIT WEIGHT < 3000 LBS

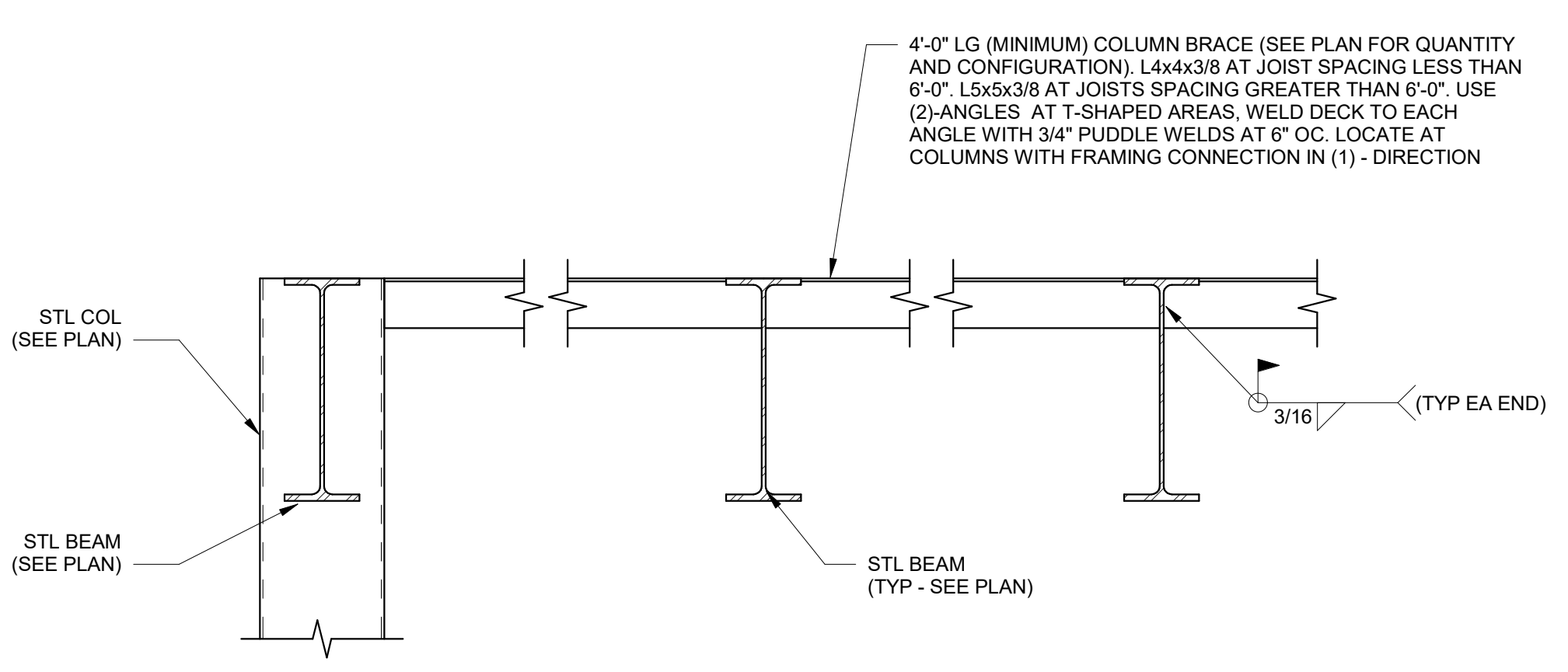
NOTES:

1. COORDINATE SIZE AND LOCATION OF EQUIPMENT CURB WITH MECHANICAL CONTRACTOR. CURB SHALL BE SUPPORTED ON ALL SIDES.
2. ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).
3. NOTIFY ENGINEER IF EQUIPMENT SIZE AND/OR WEIGHT (INCLUDING CURB) EXCEEDS WEIGHT NOTED ON PLANS.
4. IN ADDITION TO CURB SUPPORT FRAME, INSTALL TYPICAL ROOF OPENING FRAME TO SUPPORT DECK AT PERIMETER OF OPENINGS. SEE TYPICAL ROOF OPENING FRAME DETAIL FOR ADDITIONAL INFORMATION.
5. PROVIDE LARGER FRAMING MEMBERS AS REQUIRED FOR ANCHORAGE OF EQUIPMENT CURB.

TYPICAL EQUIPMENT CURB SUPPORT - SECTION

SCALE: 1" = 1'-0"

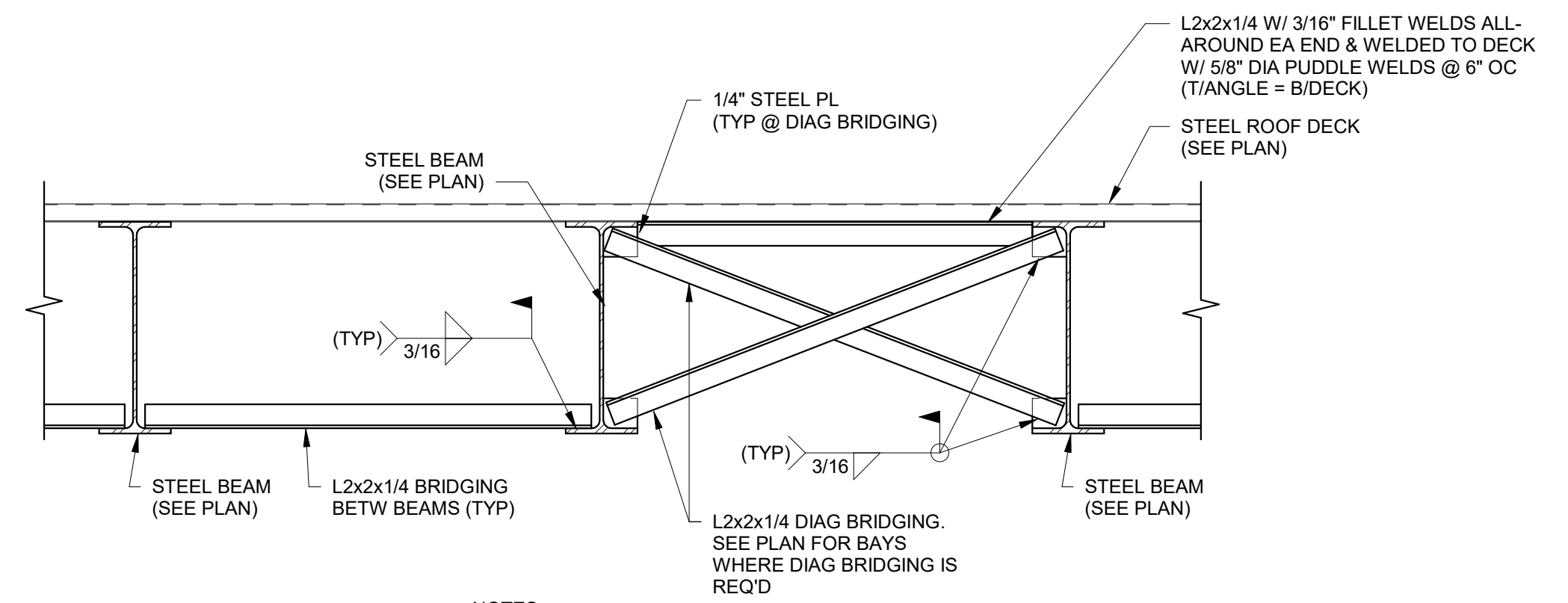
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S6.2



TYPICAL COLUMN BRACE

SCALE: 1" = 1'-0"

5  
S6.2



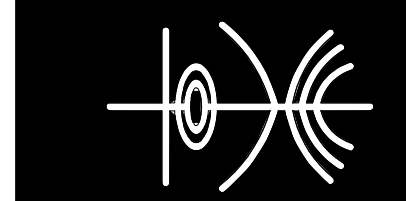
TYPICAL UPLIFT BRIDGING AT ROOF BEAMS

SCALE: 1" = 1'-0"

6  
S6.2

NOTES:

1. SEE PLAN FOR BRIDGING LOCATIONS.
2. BEAM BRIDGING IS NOT DESIGNED TO SUPPORT HANGING LOADS. MEP EQUIPMENT SHALL BE SUSPENDED FROM ROOF BEAMS.



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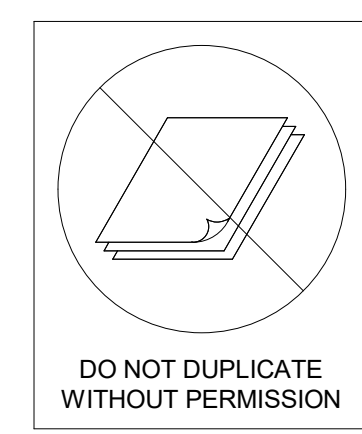
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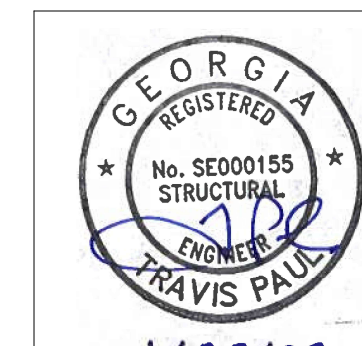
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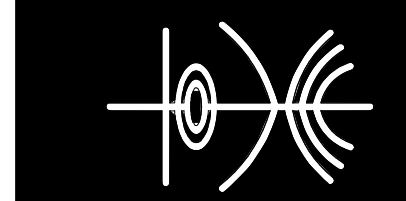
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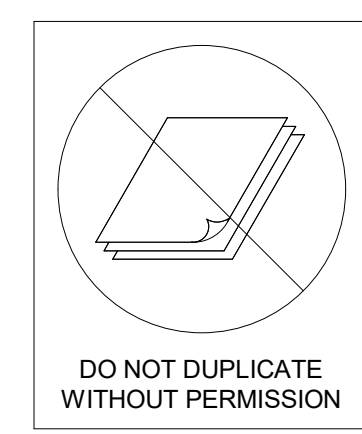
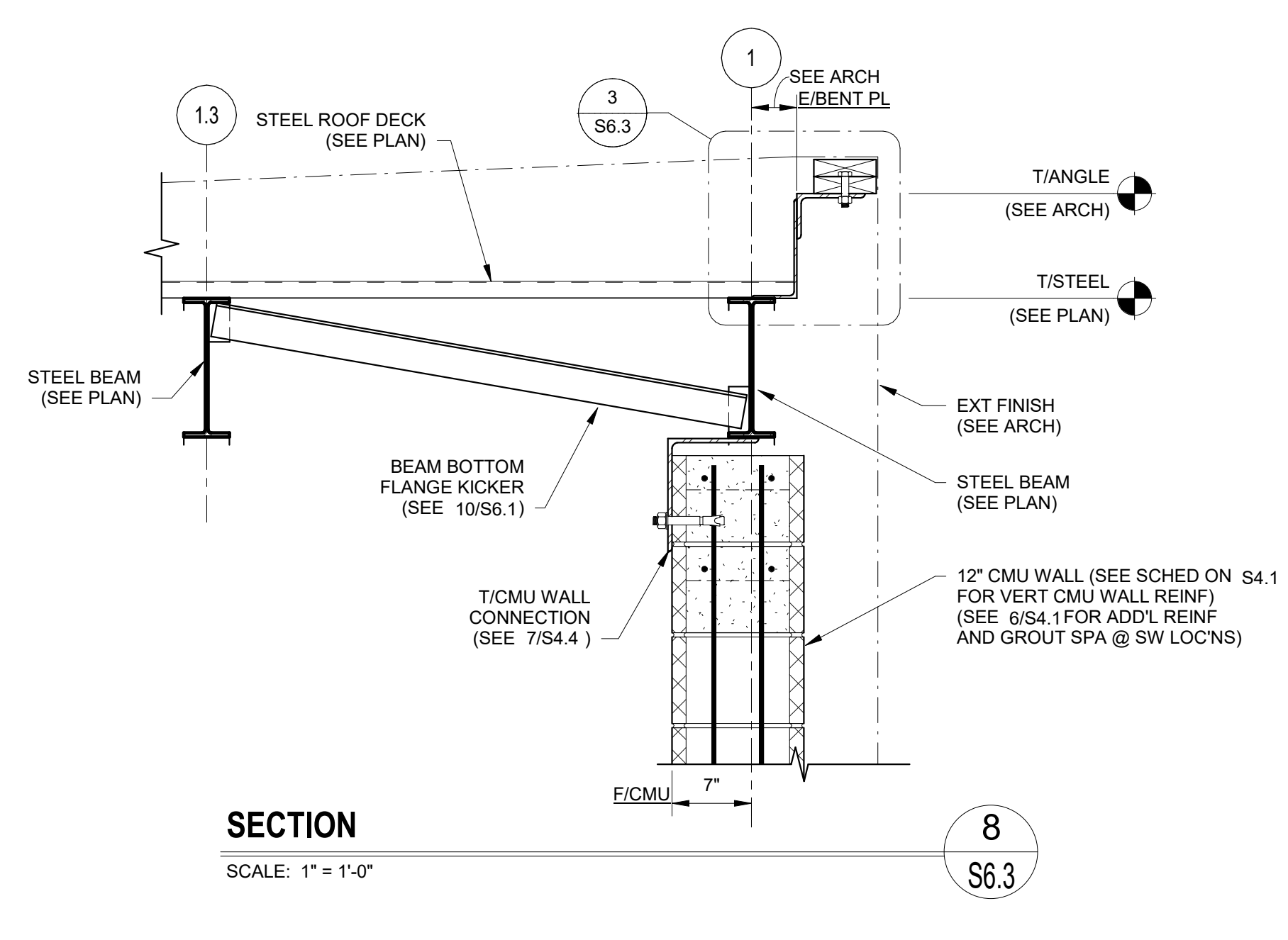
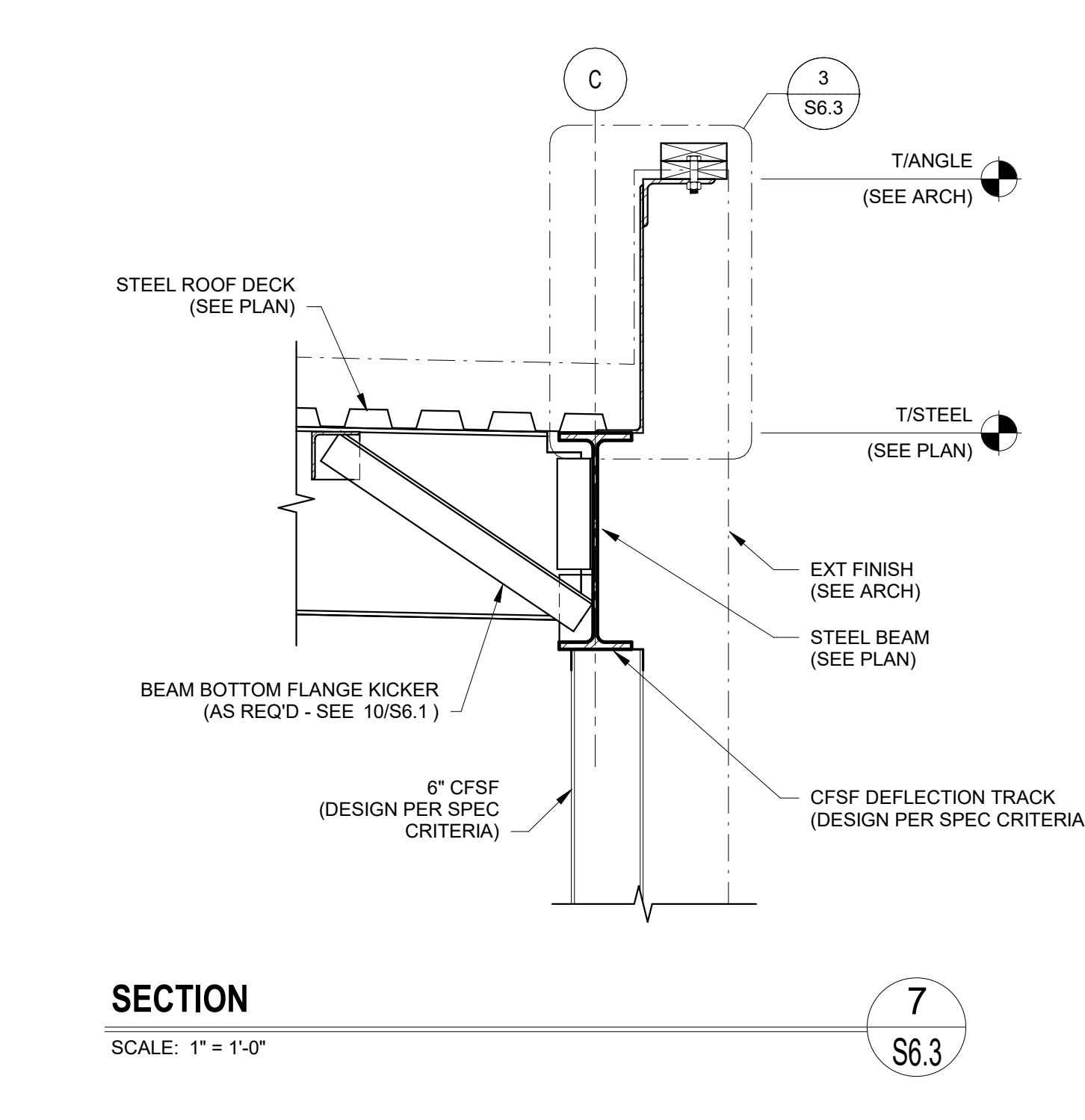
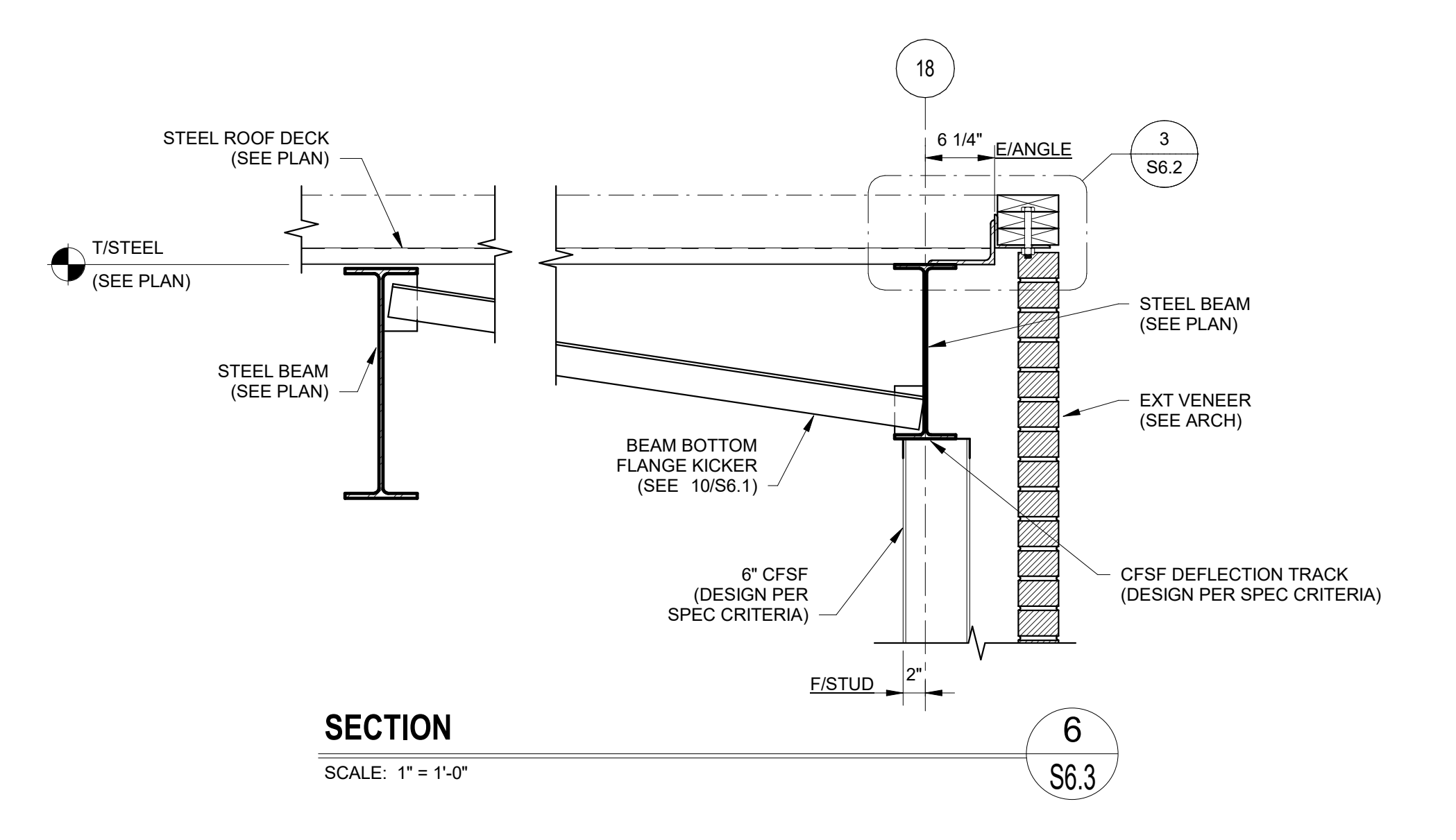
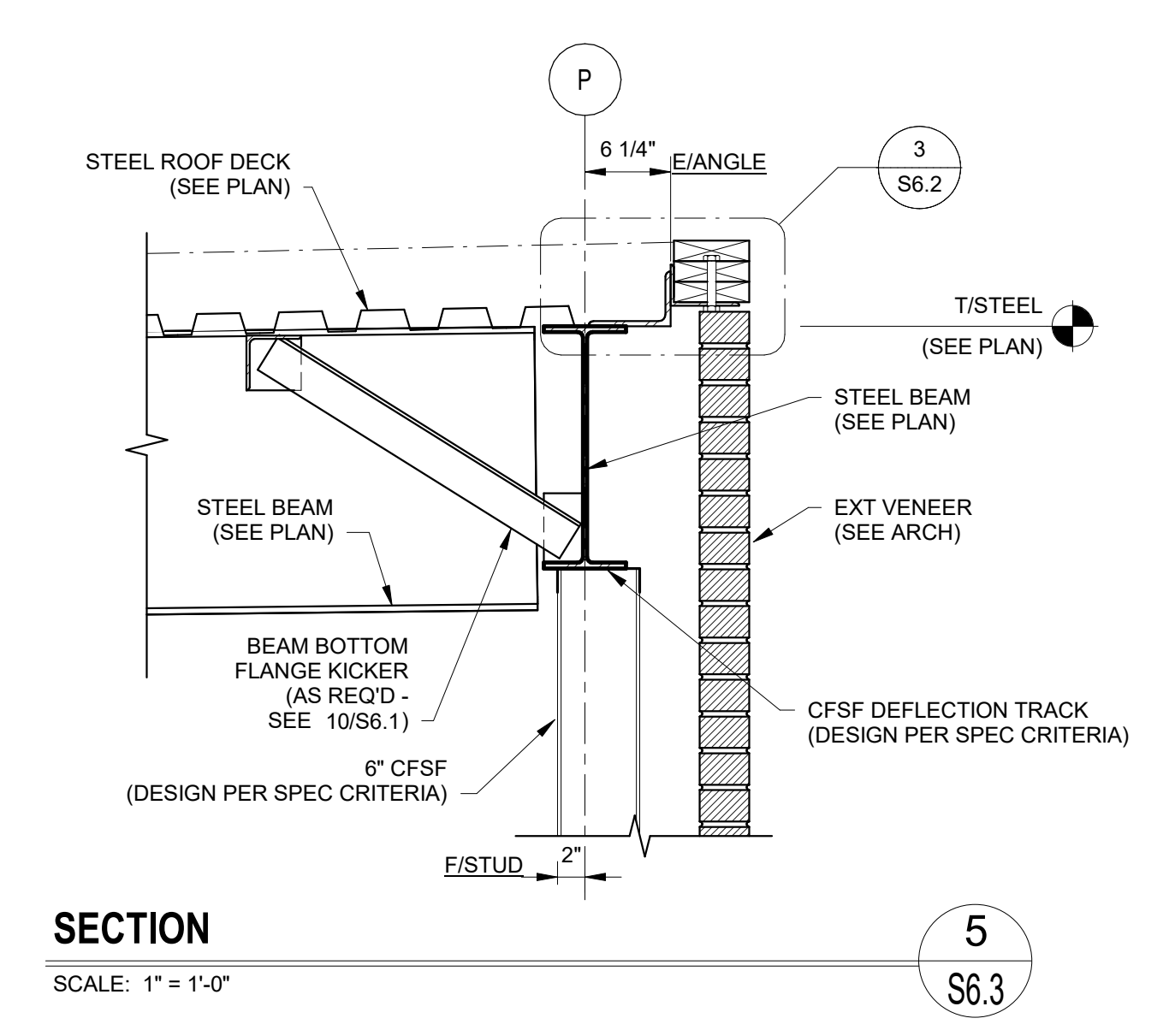
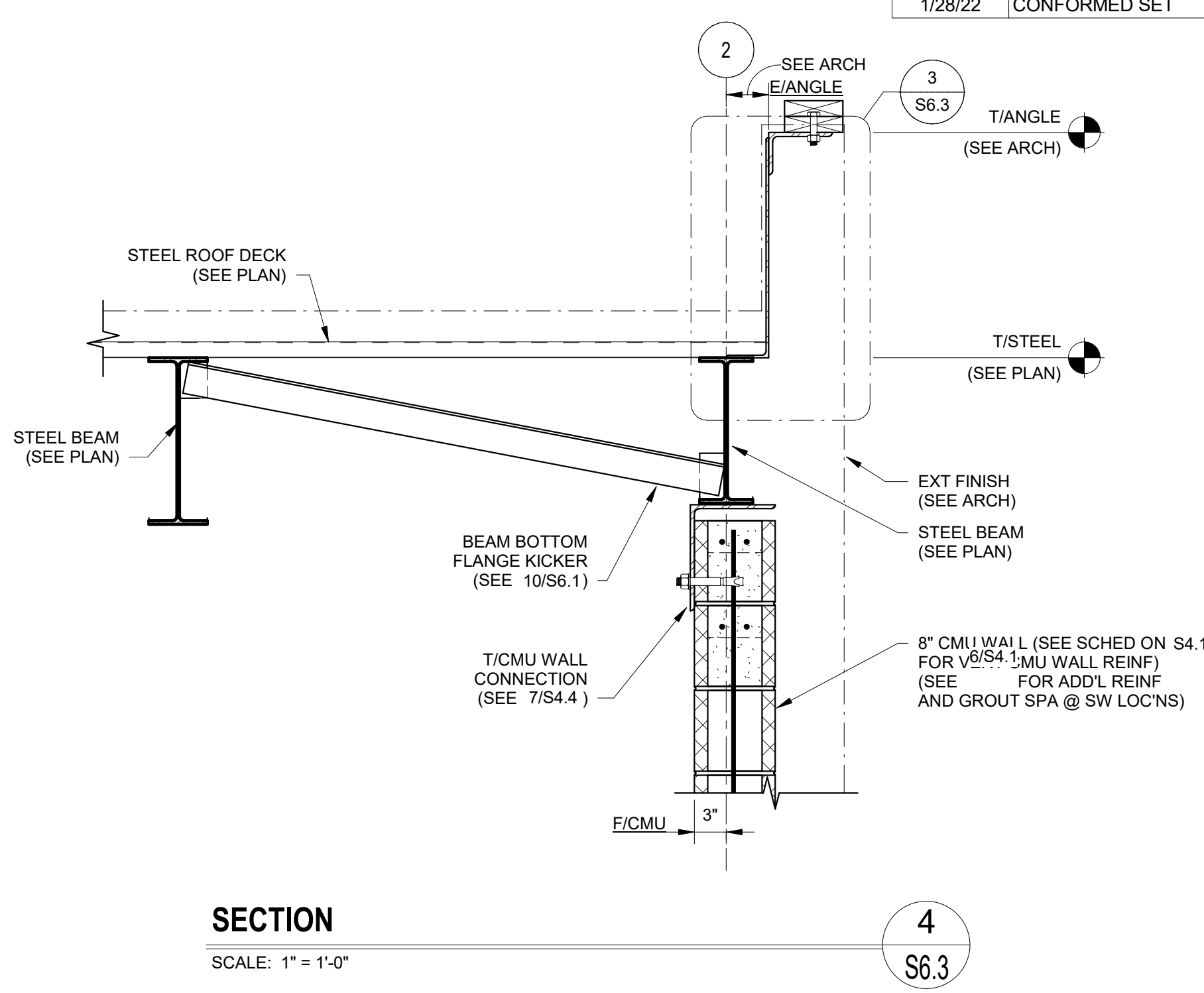
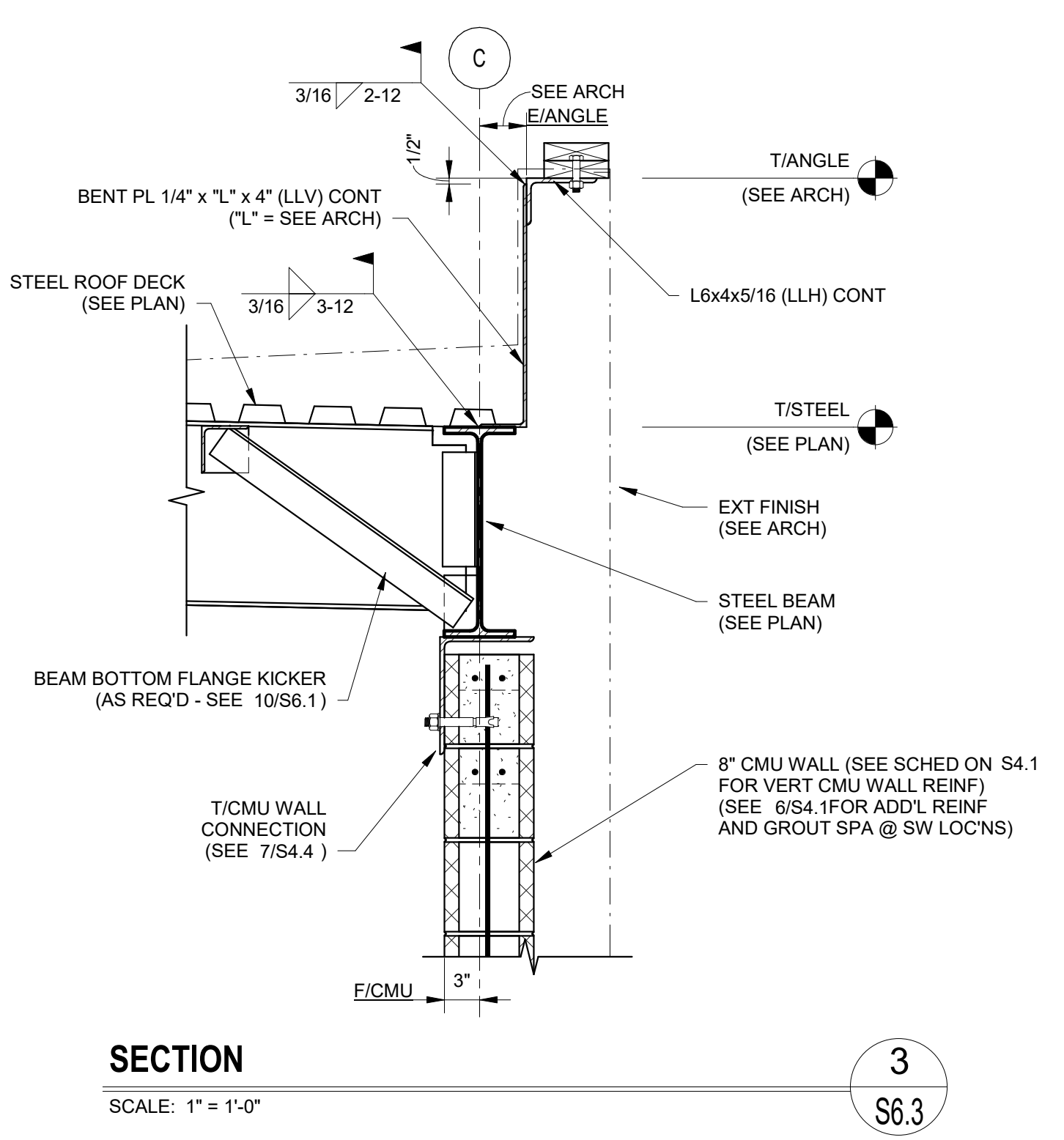
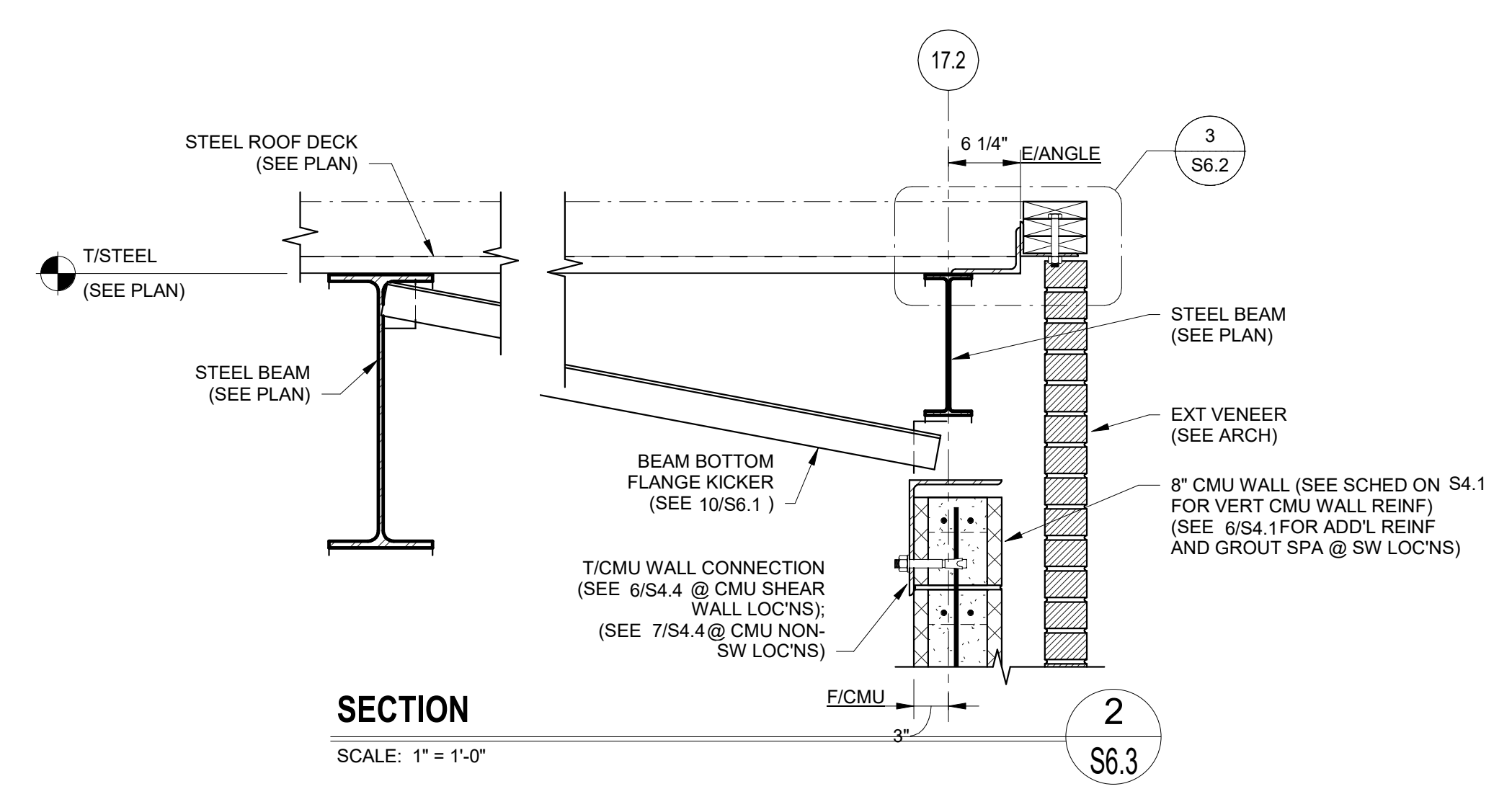
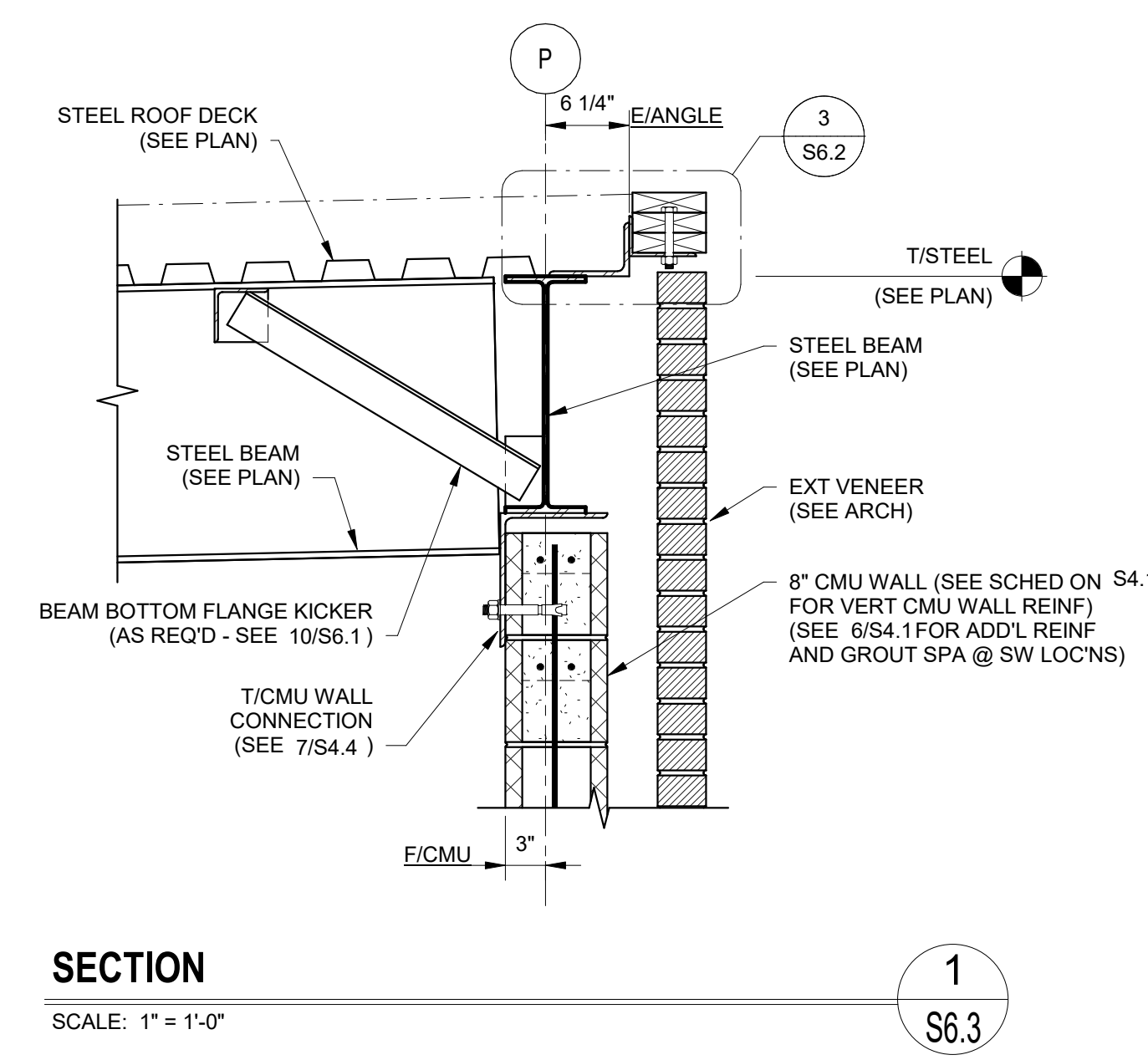


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 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

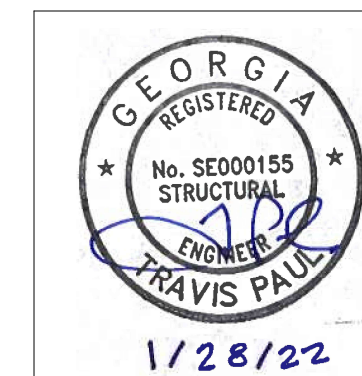
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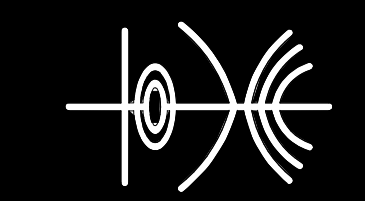
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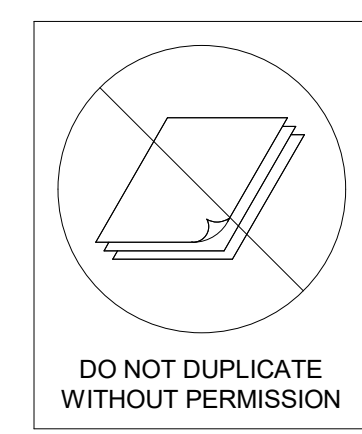
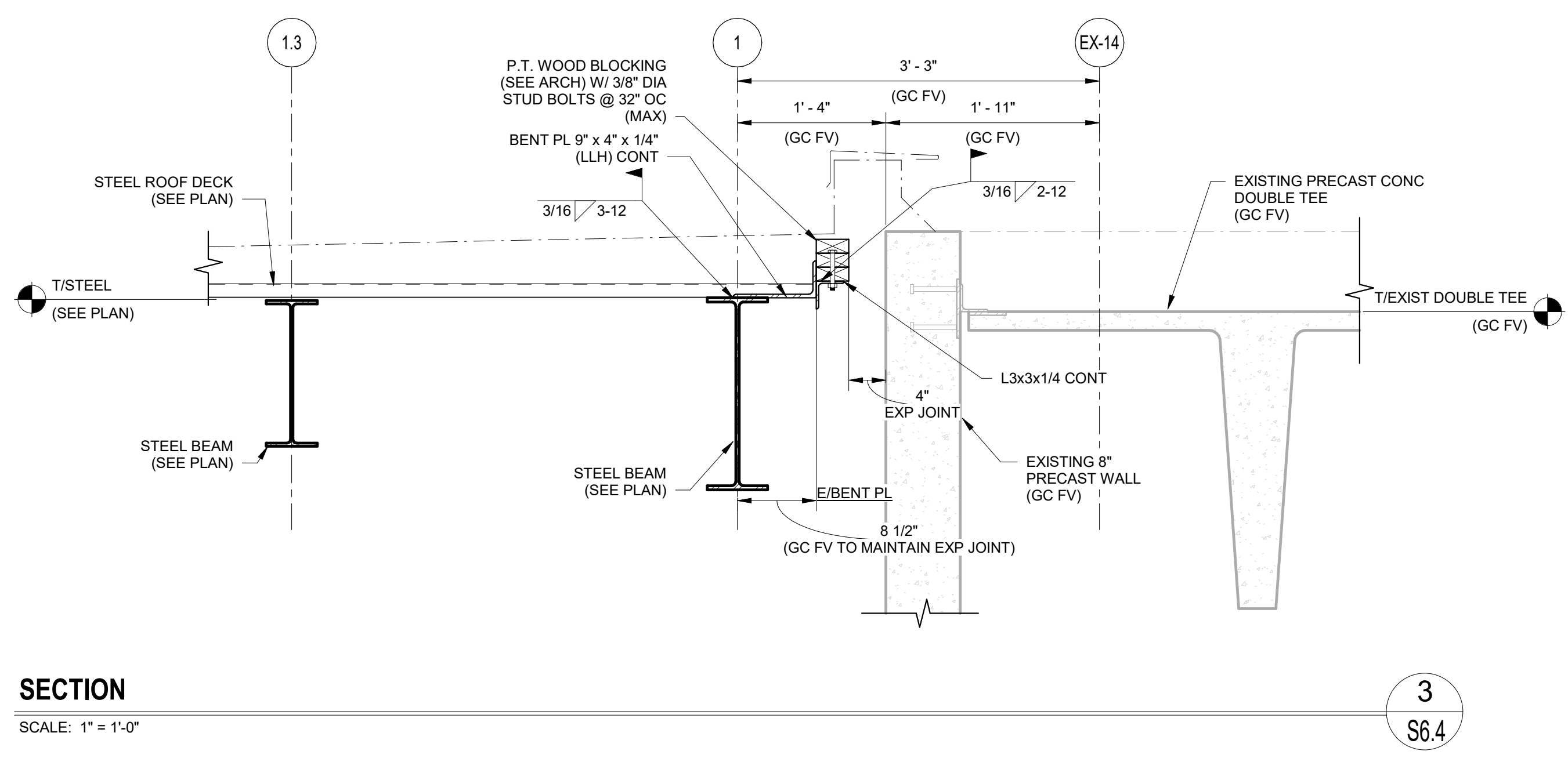
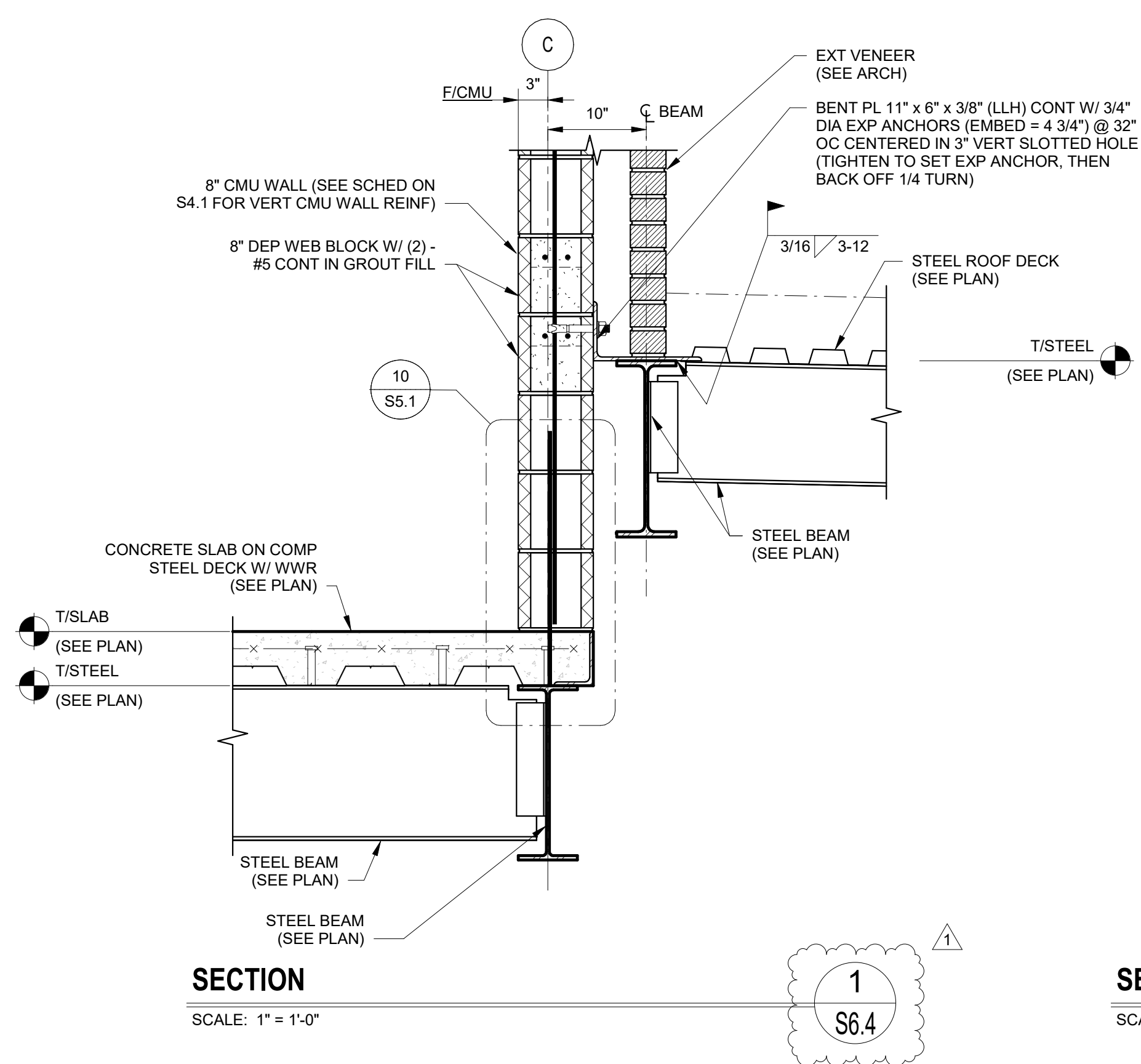
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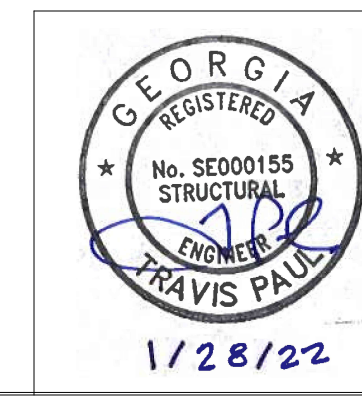
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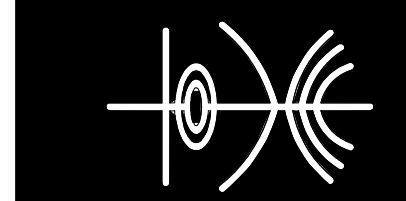
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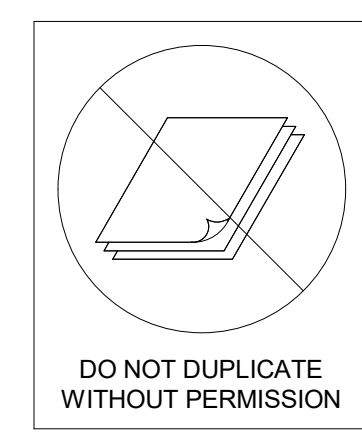
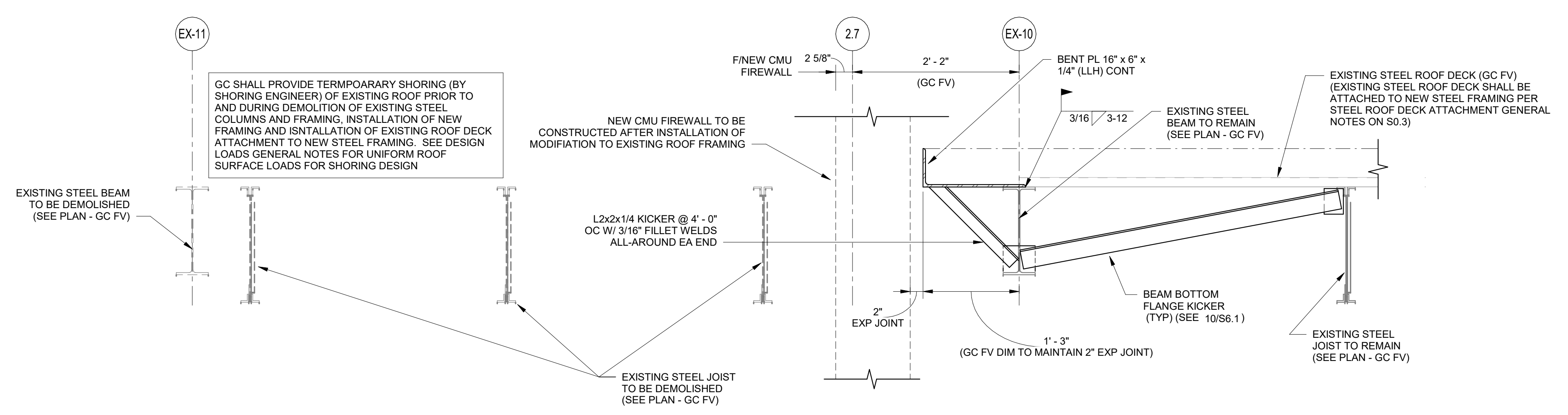
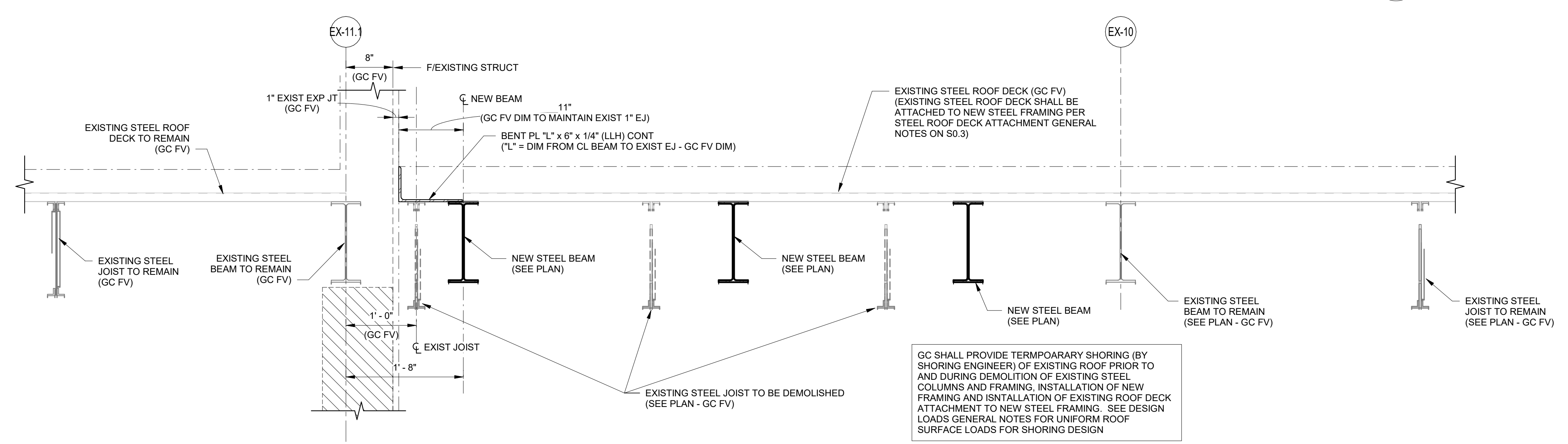
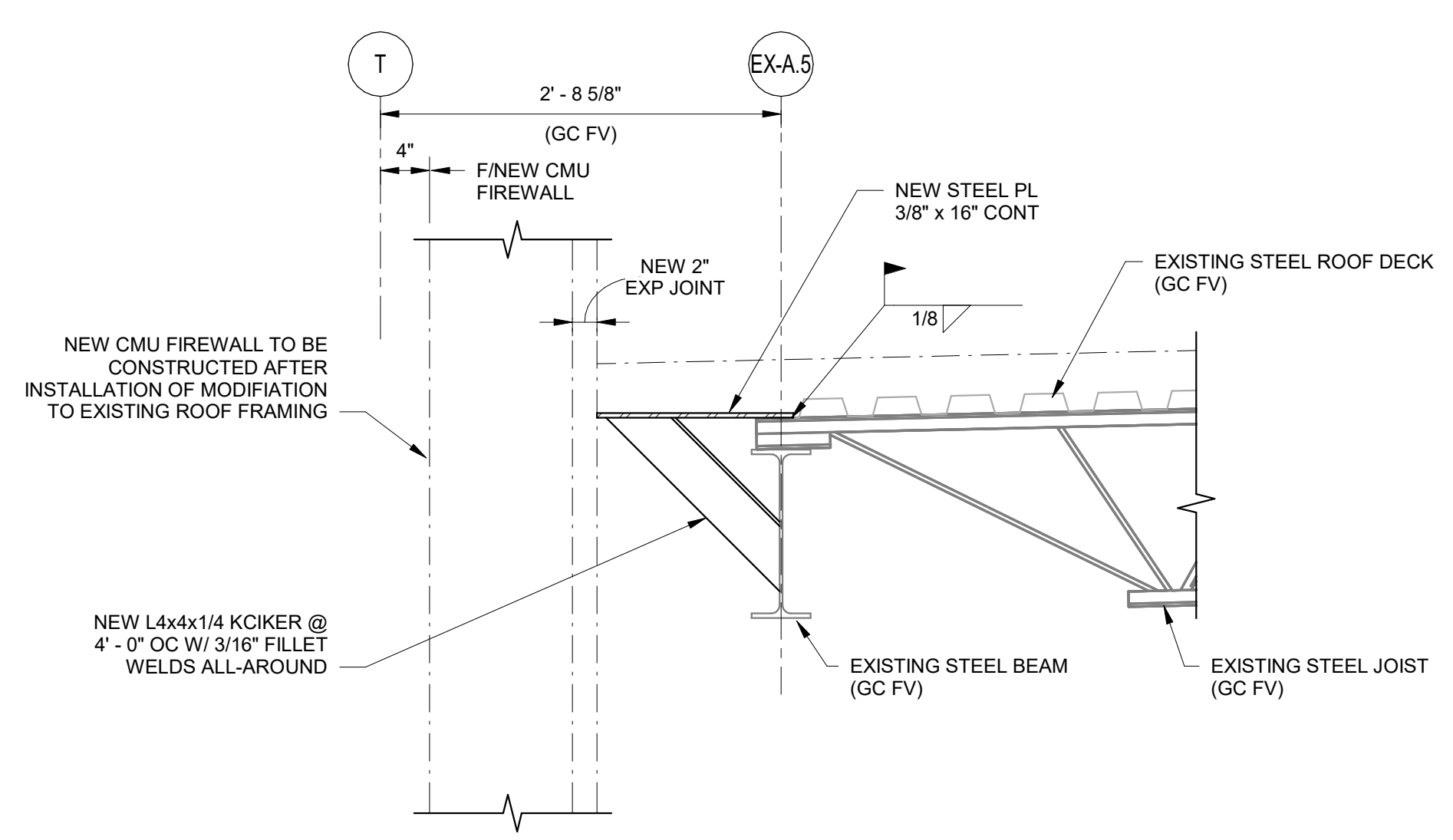
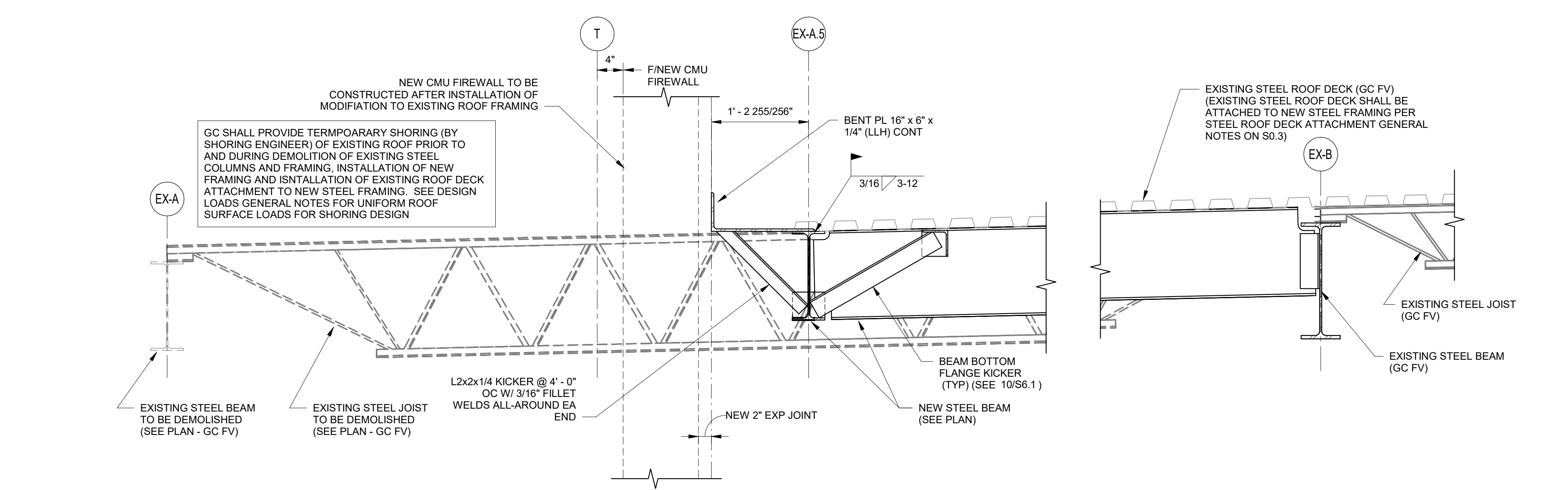
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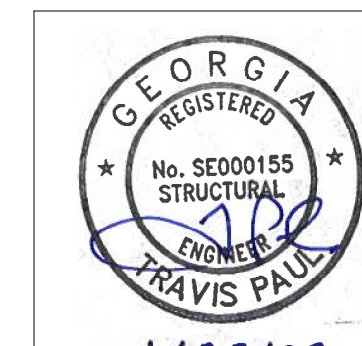
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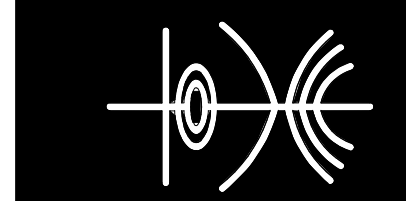
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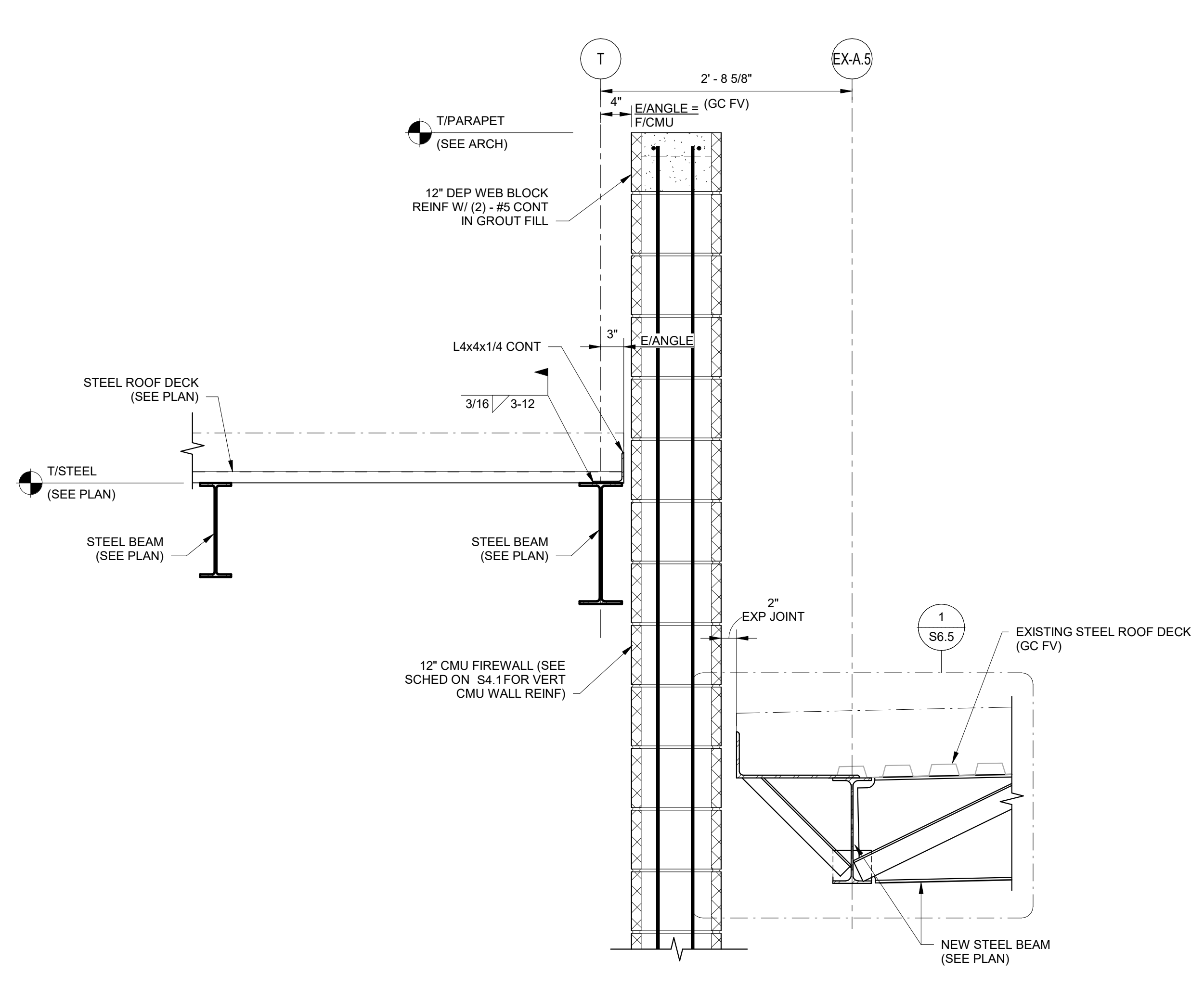


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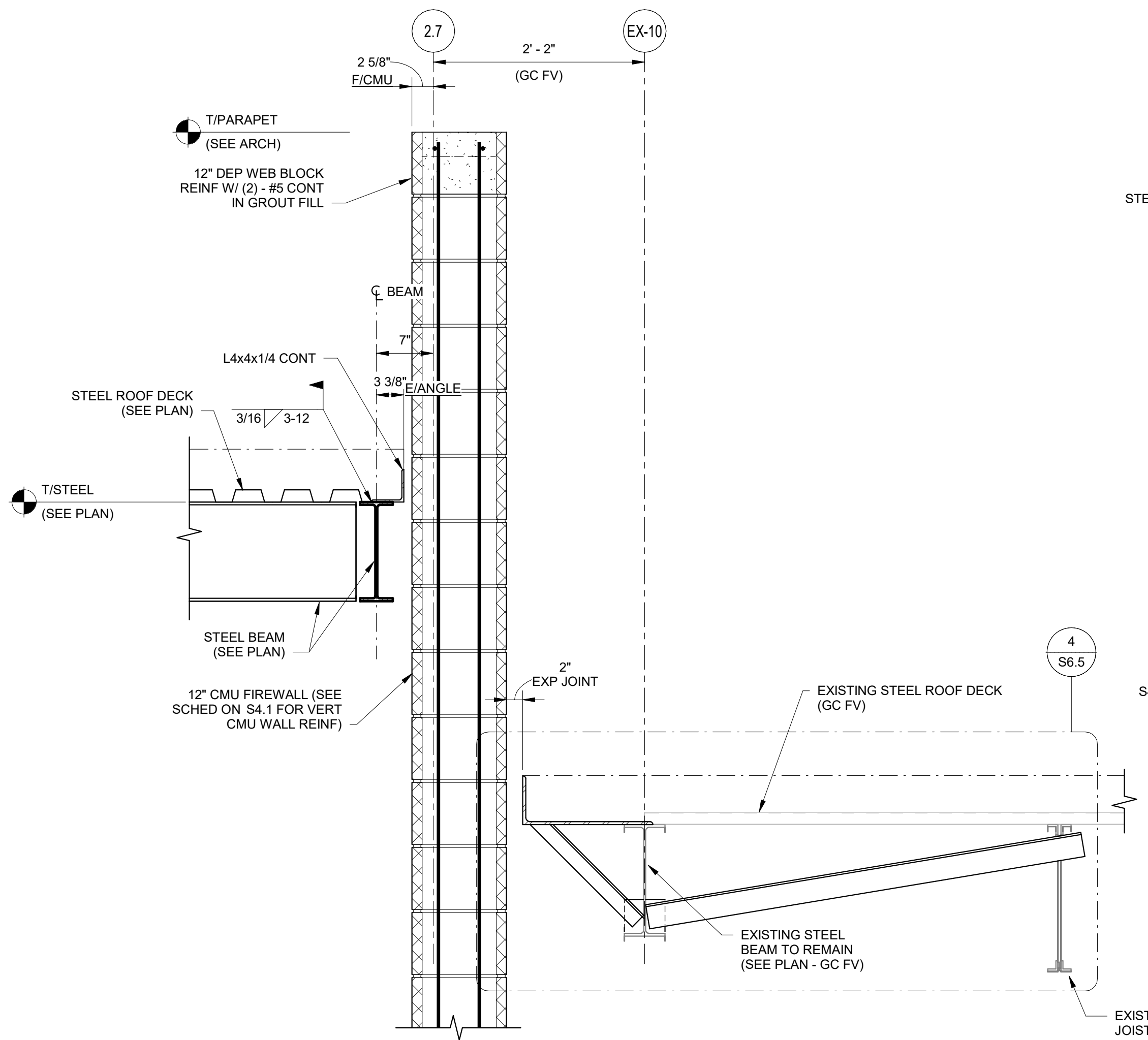
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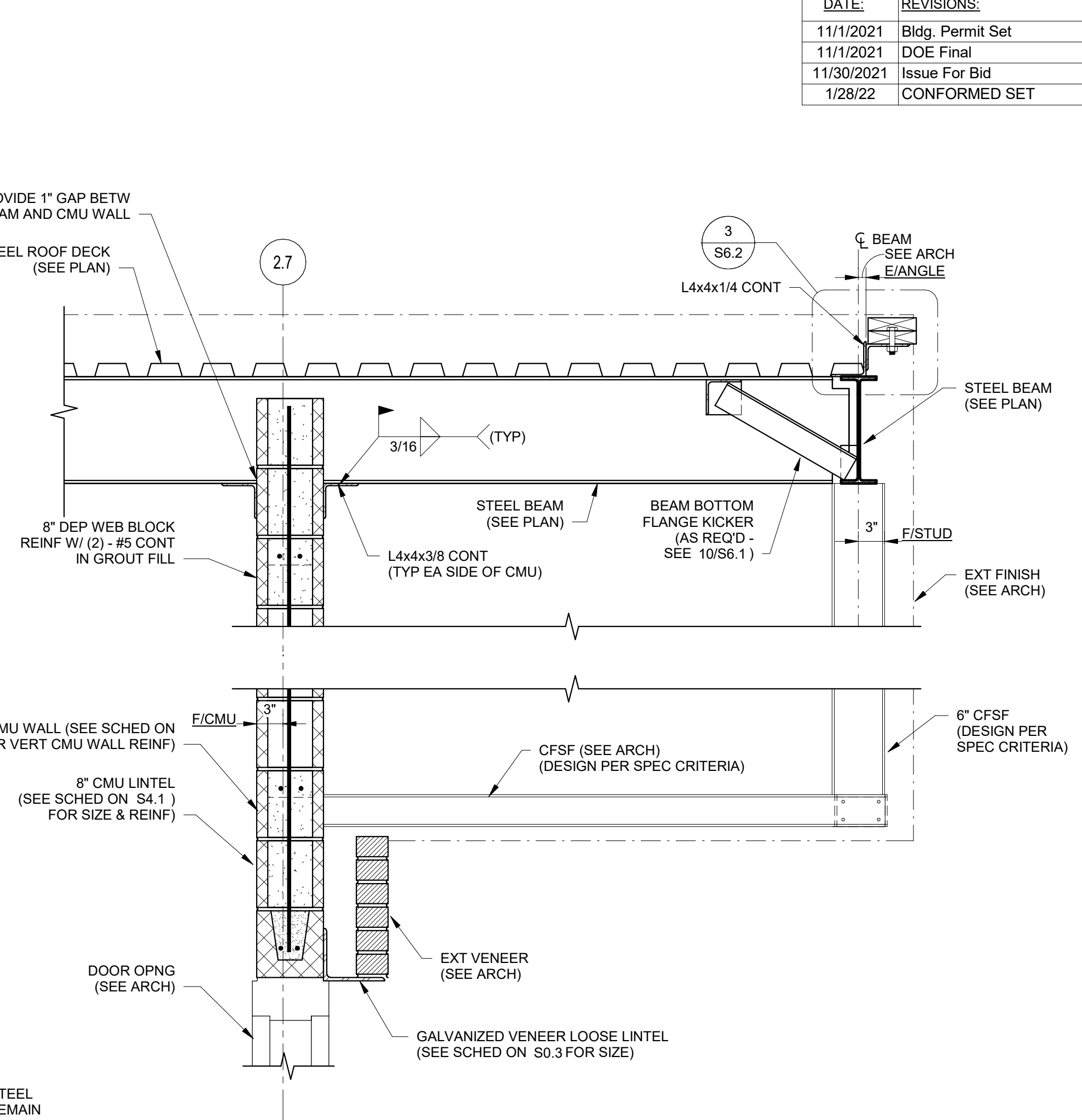
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1  
 S6.6



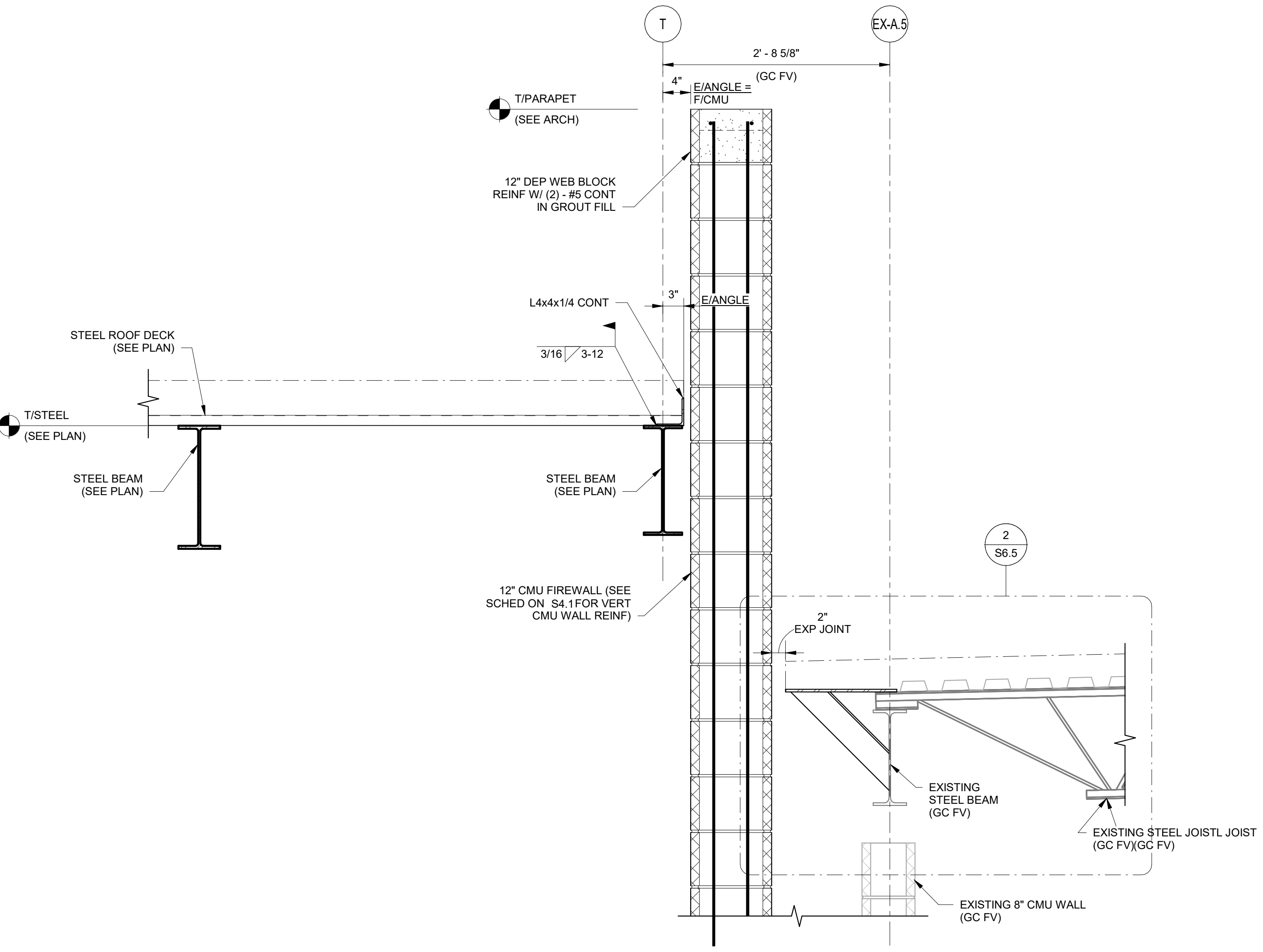
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2  
 S6.6



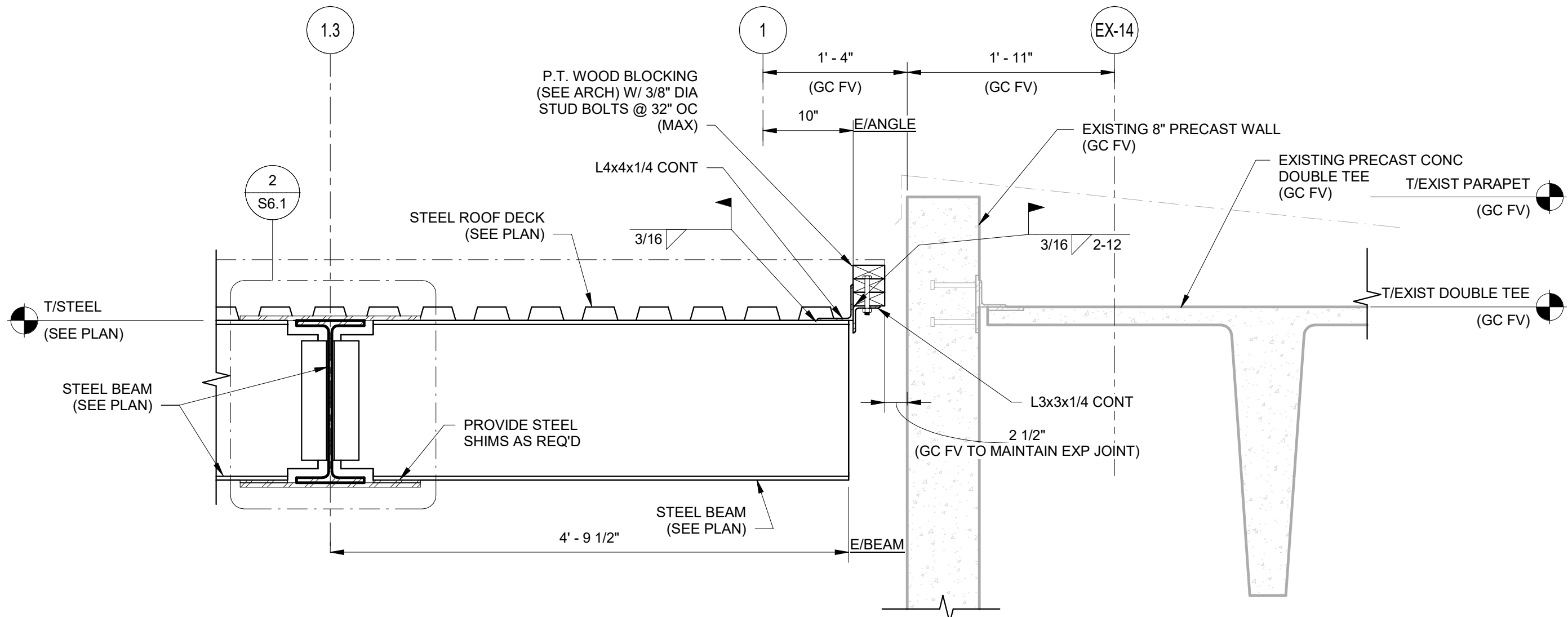
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3  
 S6.6



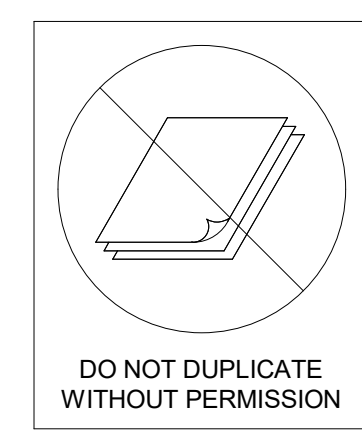
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4  
 S6.6



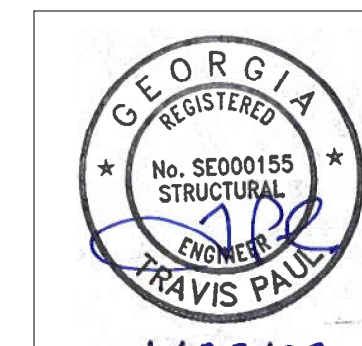
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5  
 S6.6



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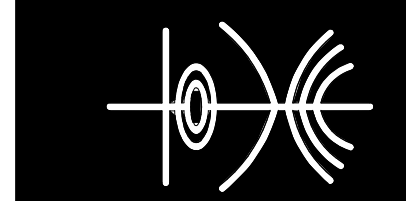
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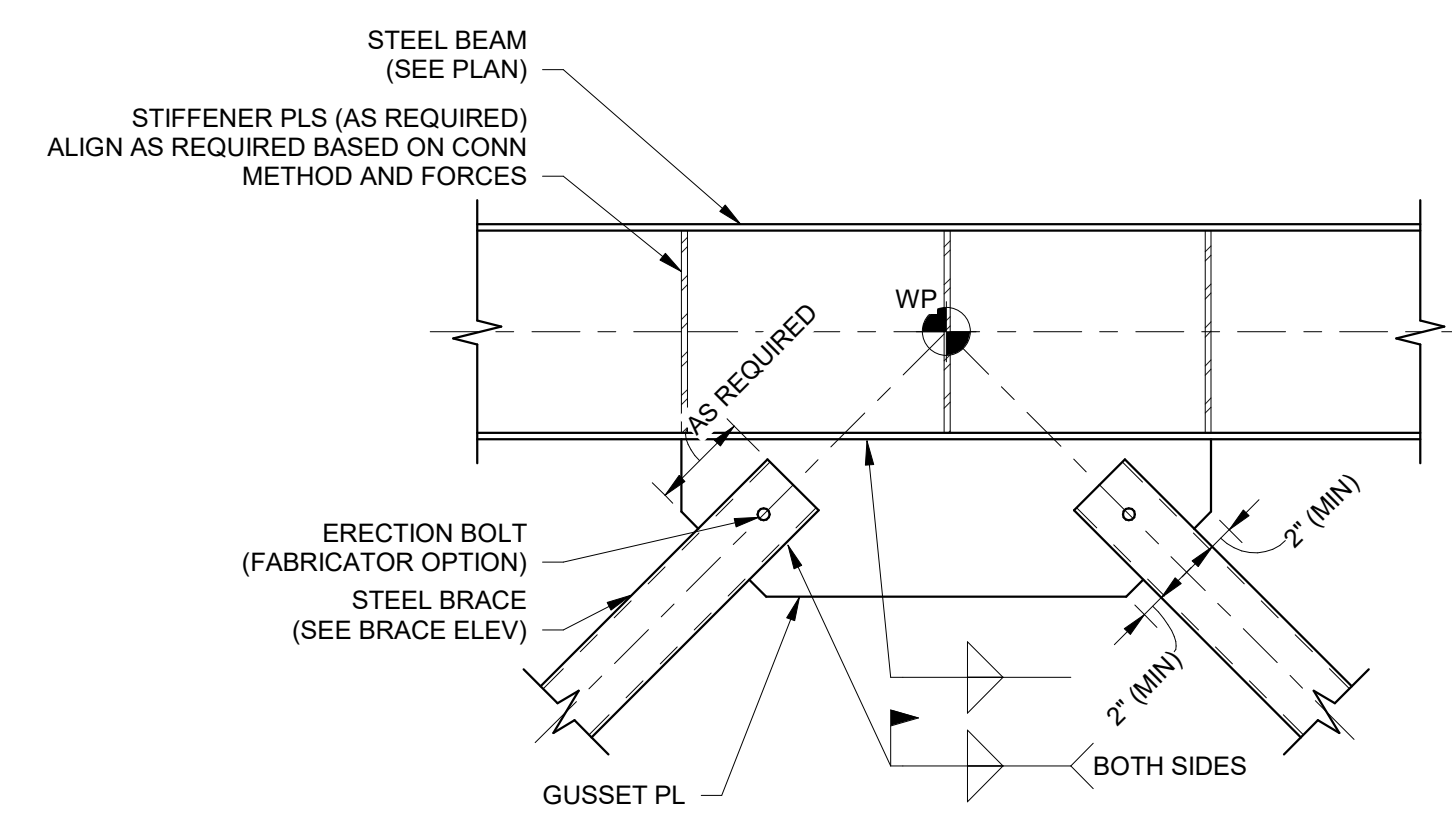
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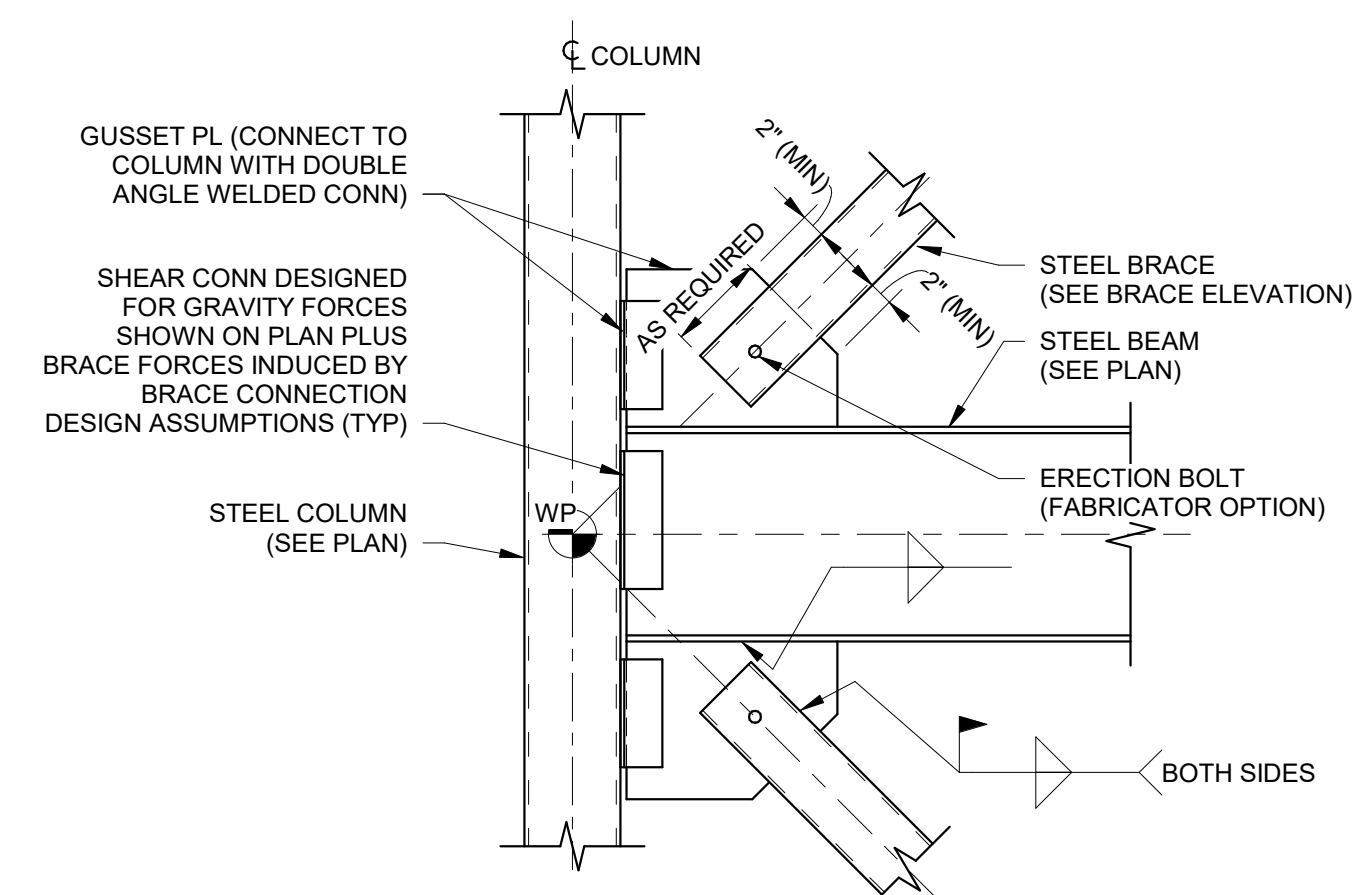
**cunningham forehand matthews moore**

S7.1



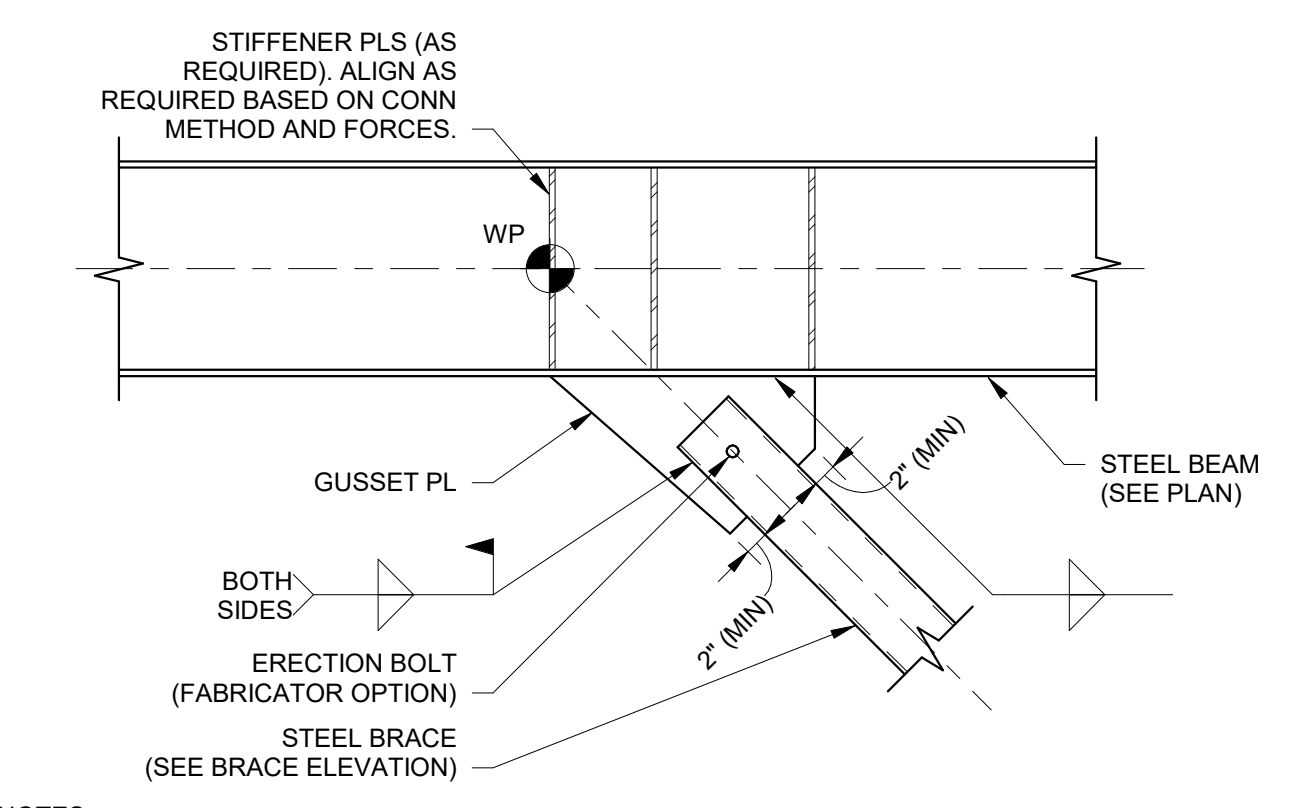
- NOTES:**
1. FABRICATOR SHALL SUBMIT BRACE CONNECTION CALCULATIONS WITH SHOP DRAWINGS. CONNECTIONS SHALL BE DESIGNED FOR FORCES SHOWN ON BRACE ELEVATIONS AND FRAMING PLANS.
  2. AT SIMILAR CONDITIONS THE BRACING COULD BE PRESENT AT THE TOP OF THE BEAM.

**WIDE FLANGE BEAM WITH BRACE CONNECTION - SECTION**  
 SCALE: 3/4" = 1'-0" 1 S7.1



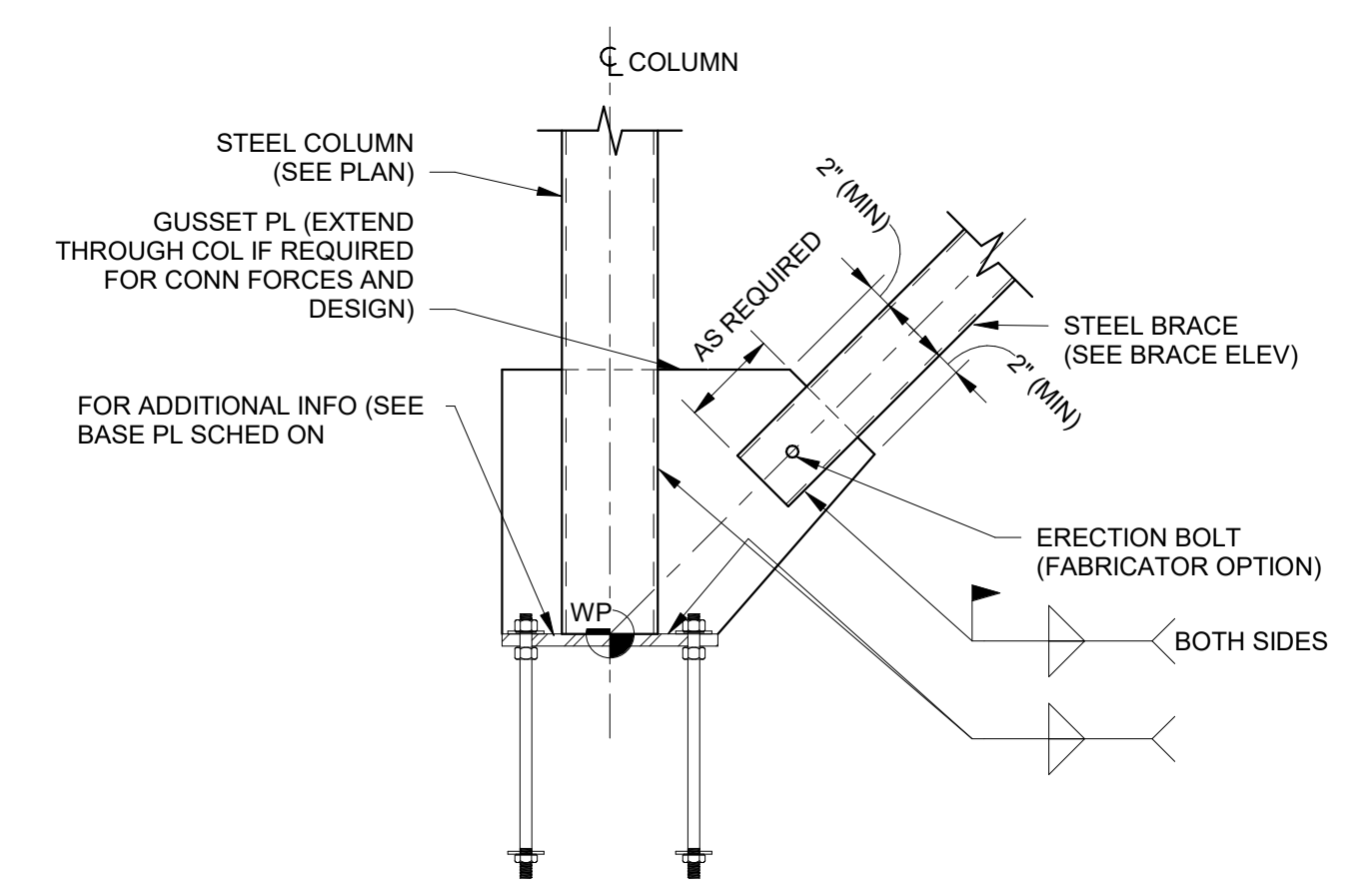
- NOTES:**
1. FABRICATOR SHALL SUBMIT BRACE CONNECTION CALCULATIONS WITH SHOP DRAWINGS. CONNECTIONS SHALL BE DESIGNED FOR FORCES SHOWN ON BRACE ELEVATIONS AND FRAMING PLANS.
  2. FABRICATOR HAS THE OPTION TO USE BOLTED GUSSET CONNECTIONS. SUBMIT DETAIL FOR REVIEW AND ACCEPTANCE PRIOR TO SUBMITTING SHOP DRAWINGS.
  3. AT SIMILAR CONDITIONS EITHER THE TOP OR BOTTOM BRACE WILL NOT BE PRESENT.

**WIDE FLANGE BEAM TO HSS COLUMN WITH BRACE CONNECTION - SECTION**  
 SCALE: 3/4" = 1'-0" 2 S7.1



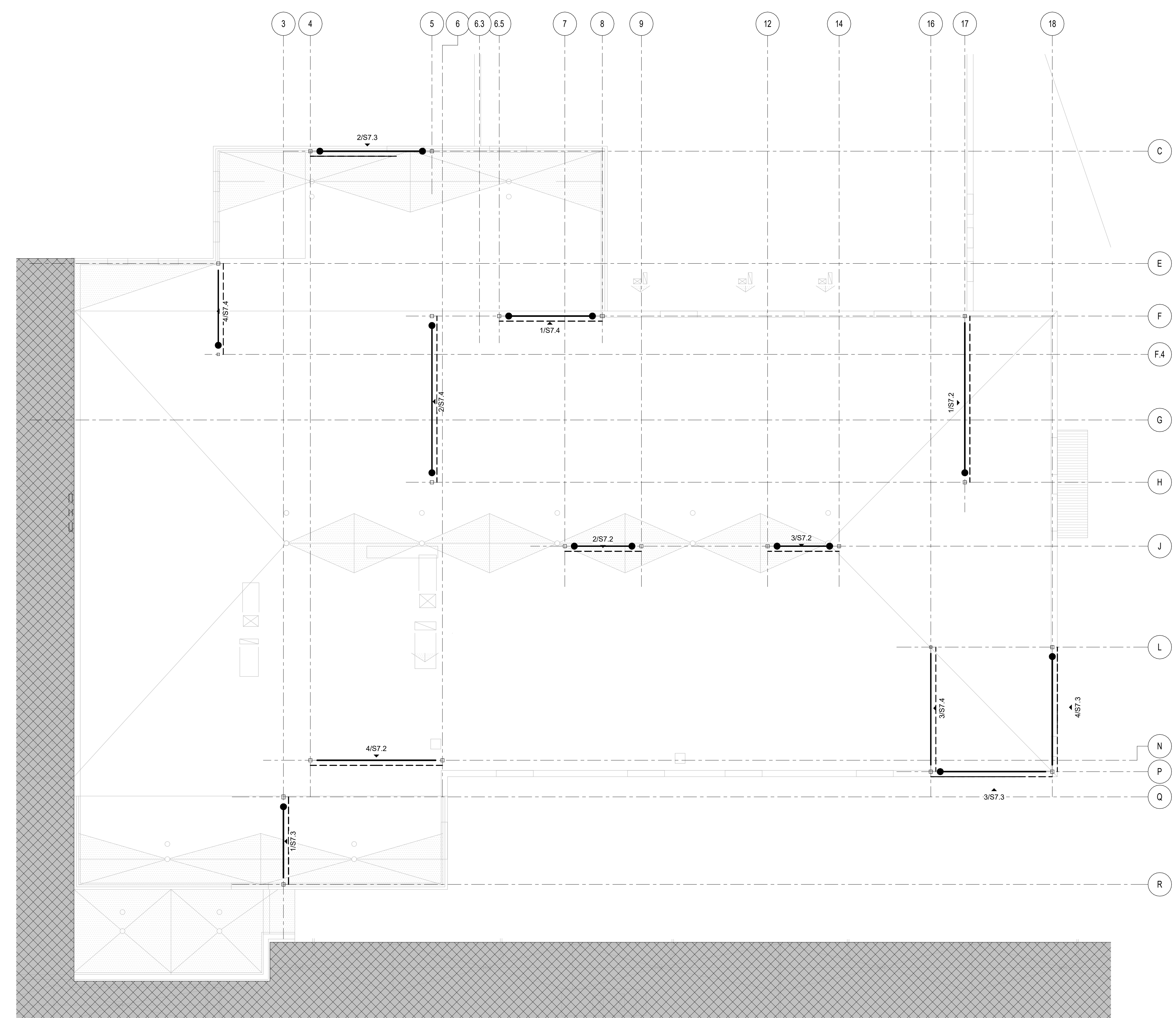
- NOTES:**
1. FABRICATOR SHALL SUBMIT BRACE CONNECTION CALCULATIONS WITH SHOP DRAWINGS. CONNECTIONS SHALL BE DESIGNED FOR FORCES SHOWN ON BRACE ELEVATIONS AND FRAMING PLANS.
  2. AT SIMILAR CONDITIONS THE BRACING COULD BE PRESENT AT THE TOP OF THE BEAM.

**WIDE FLANGE BEAM WITH BRACE CONNECTION - SECTION**  
 SCALE: 3/4" = 1'-0" 3 S7.1



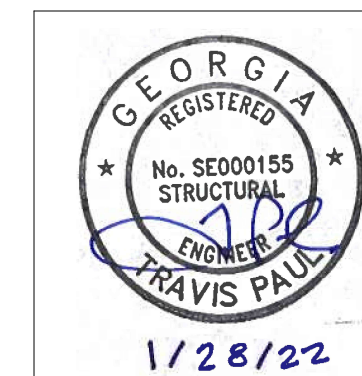
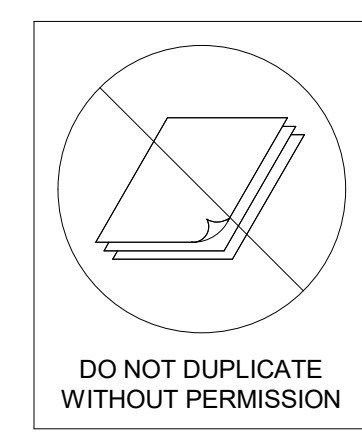
- NOTES:**
1. FABRICATOR SHALL SUBMIT BRACE CONNECTION CALCULATIONS WITH SHOP DRAWINGS. CONNECTIONS SHALL BE DESIGNED FOR FORCES SHOWN ON BRACE ELEVATIONS AND FRAMING PLANS.

**HSS COLUMN BASE WITH BRACE CONNECTION - SECTION**  
 SCALE: 3/4" = 1'-0" 4 S7.1



**STEEL BRACE FRAME KEY PLAN**  
 SCALE: 3/32" = 1'-0" 5 S7.1

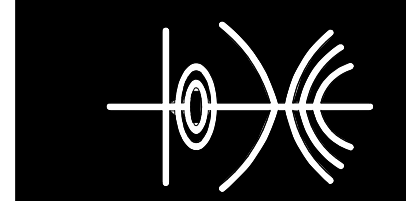
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 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022



1/28/22



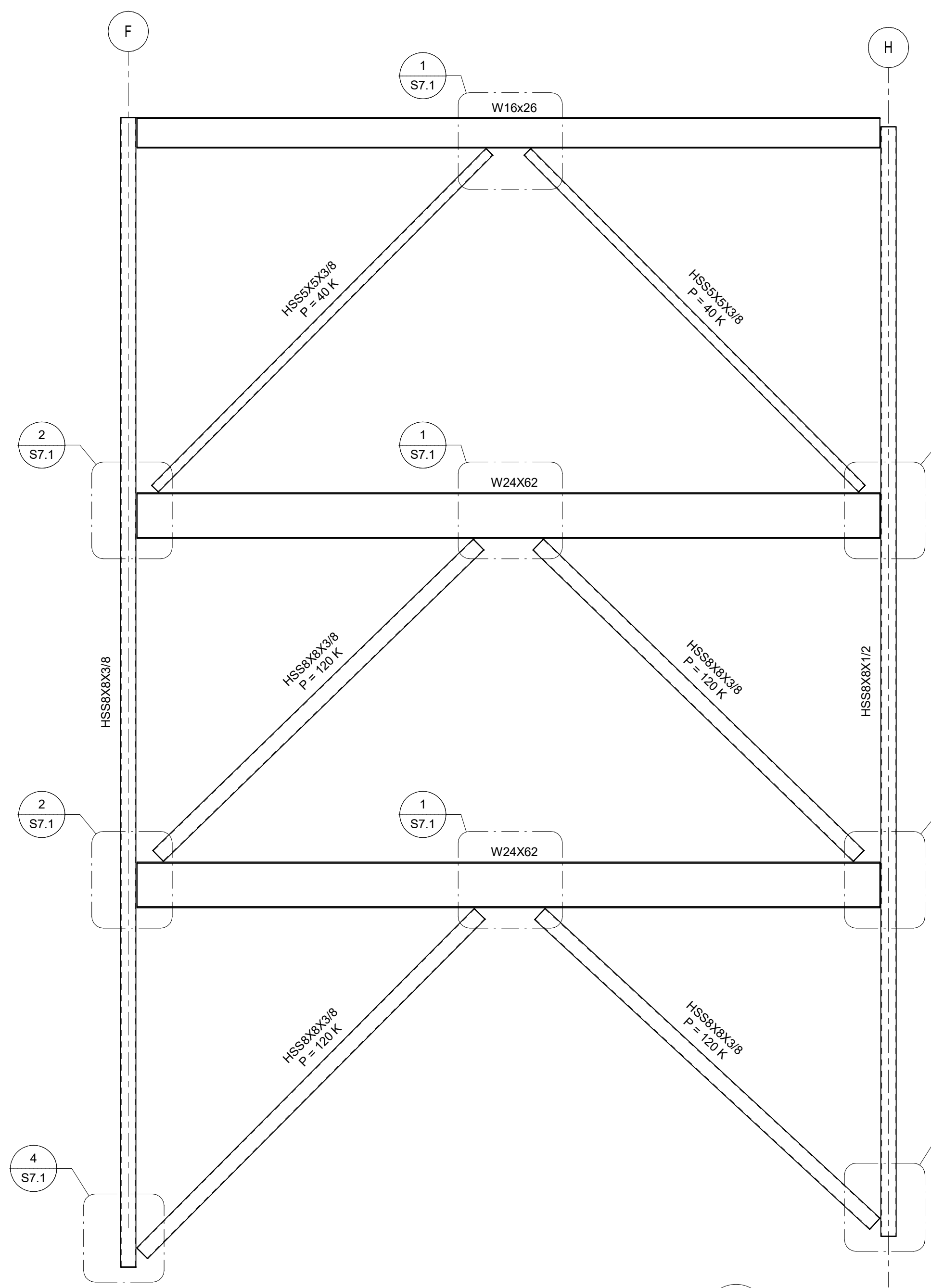
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DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
1/28/22	CONFORMED SET	



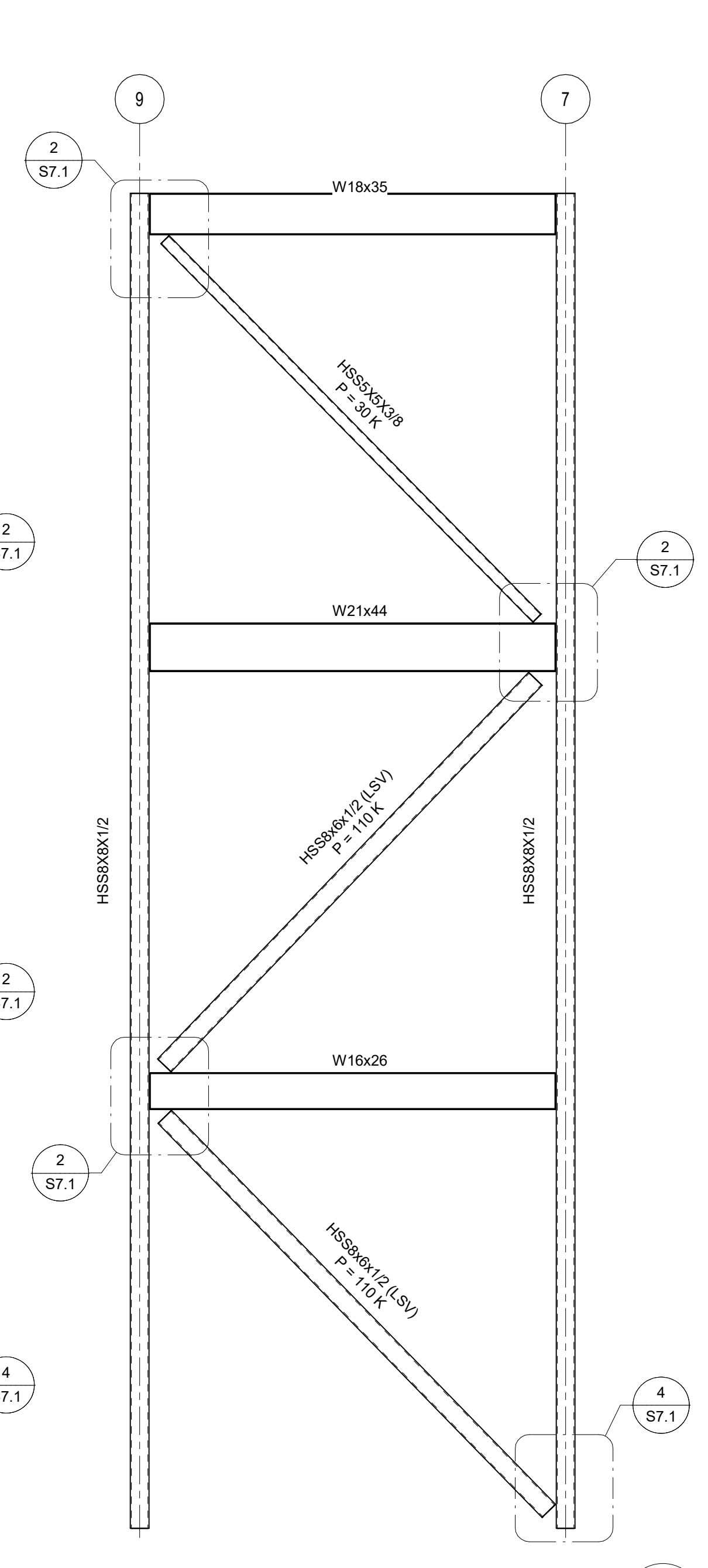
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

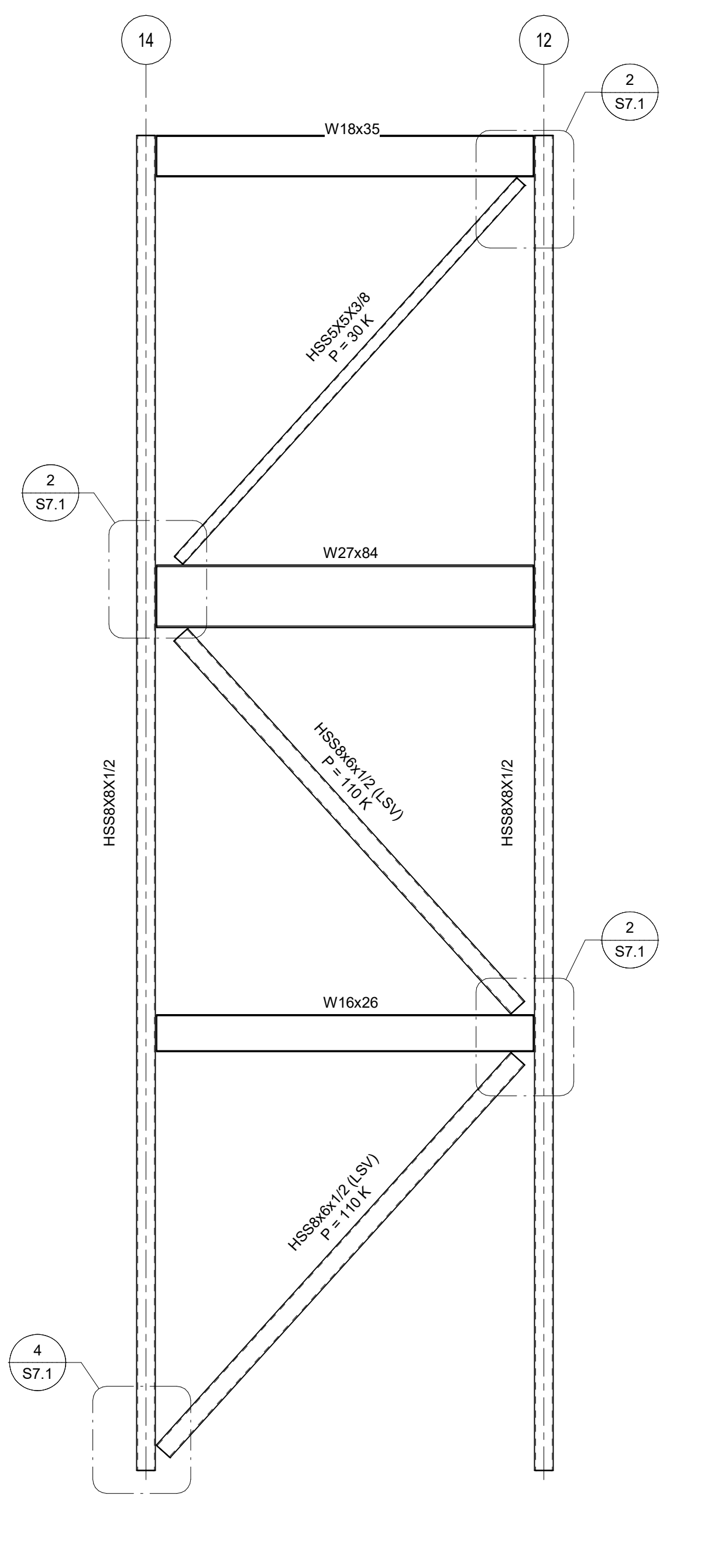
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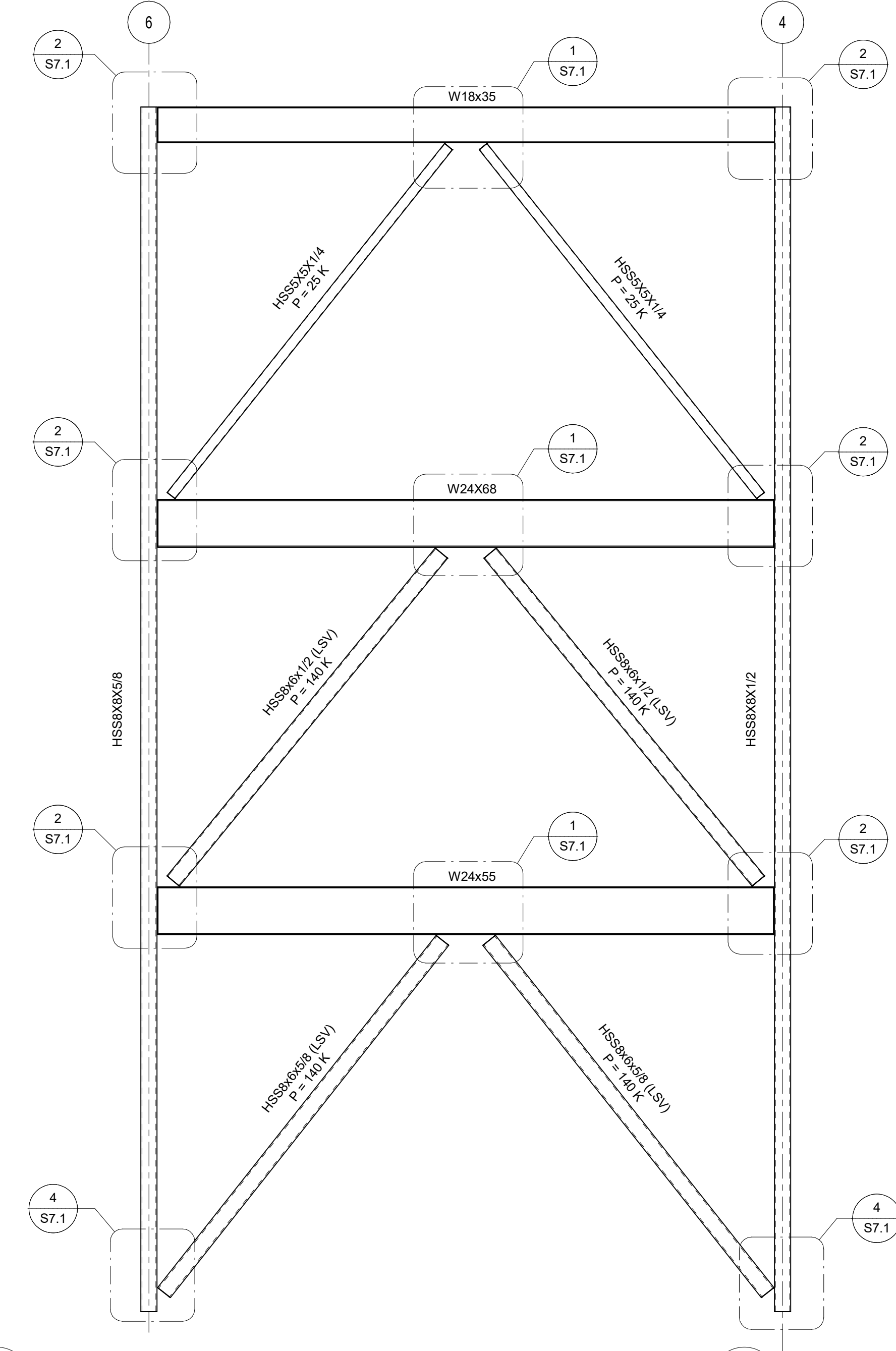
**BRACE ELEVATION 17/F-H**  
 SCALE: 1/4" = 1'-0"  
 1 S7.2



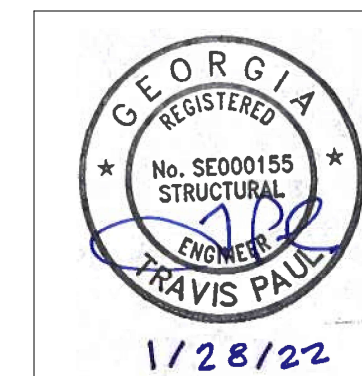
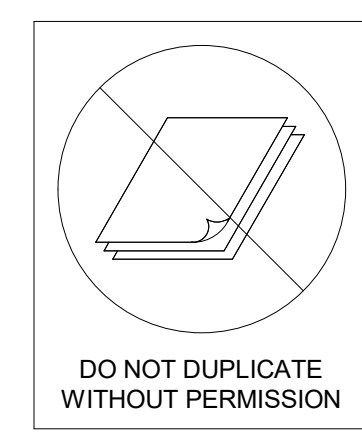
**BRACE ELEVATION J/7-9**  
 SCALE: 1/4" = 1'-0"  
 2 S7.1



**BRACE ELEVATION J/12-14**  
 SCALE: 1/4" = 1'-0"  
 3 S7.2

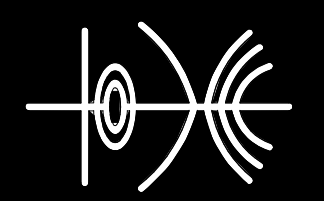


**BRACE ELEVATION N/4-6**  
 SCALE: 1/4" = 1'-0"  
 4 S7.2



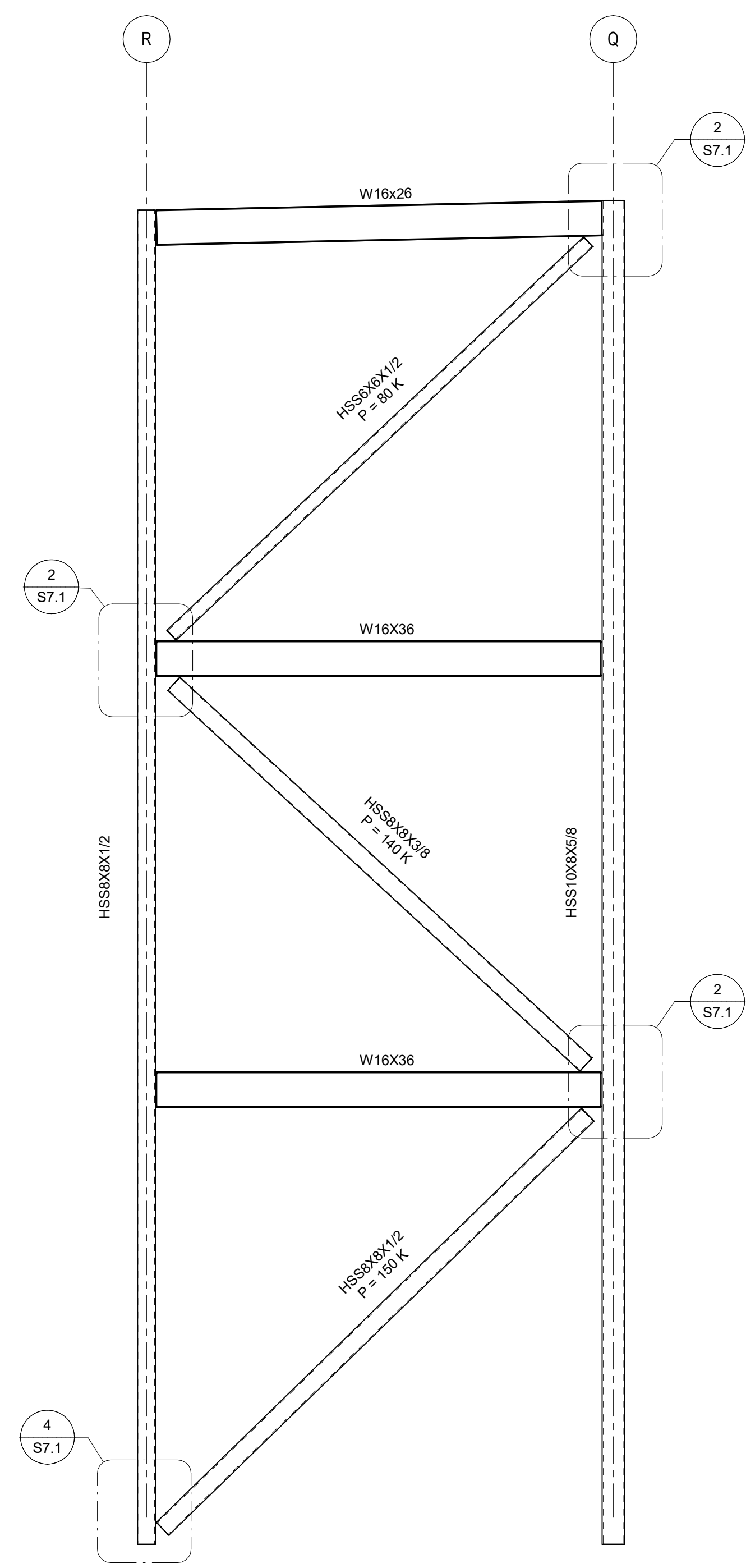
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 PES GEORGIA COA NUMBER: PEF000799  
 EXPIRATION DATE: 06/30/2022

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
1/28/22	CONFORMED SET	

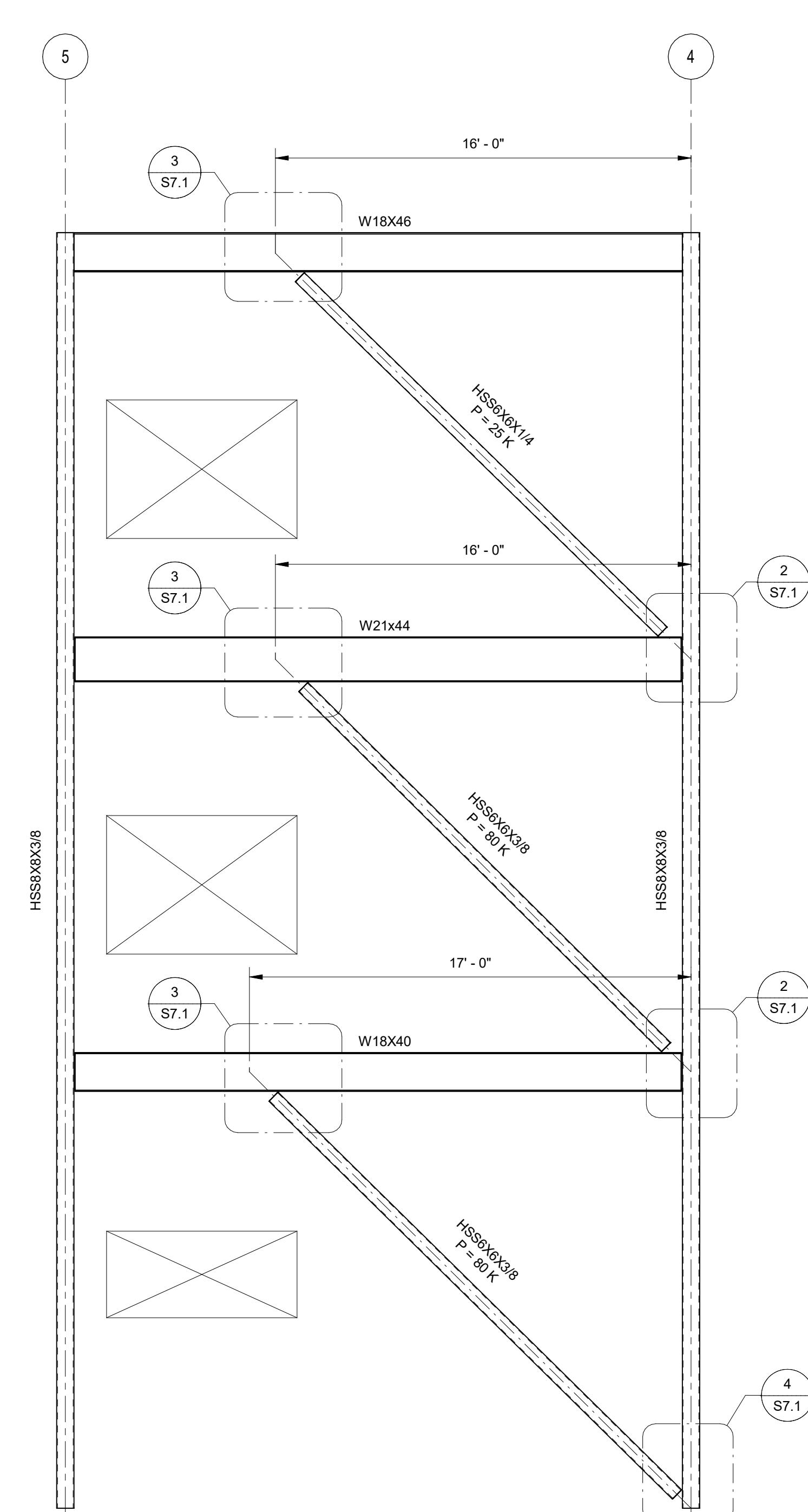
  
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FACILITY CODE 667-4556

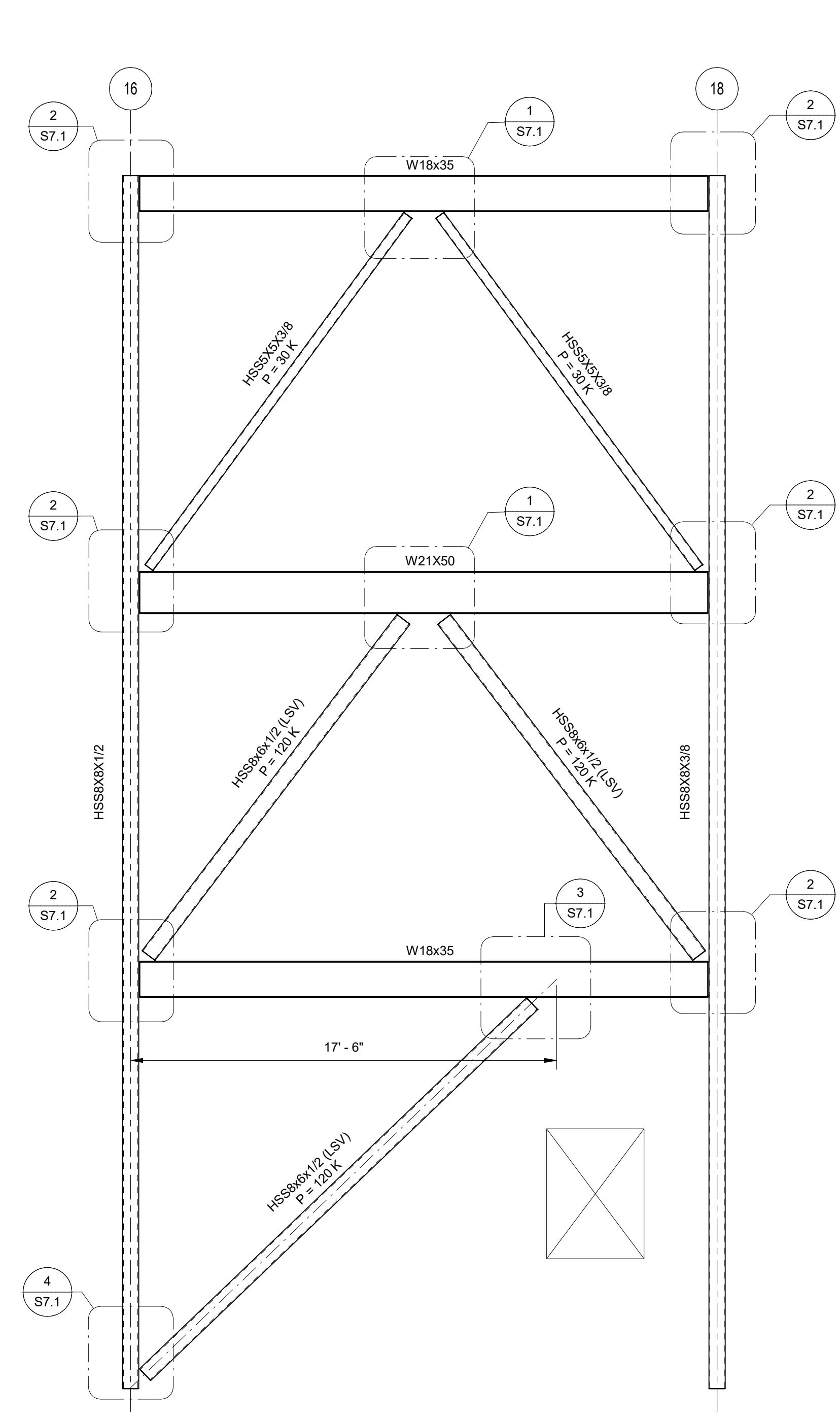
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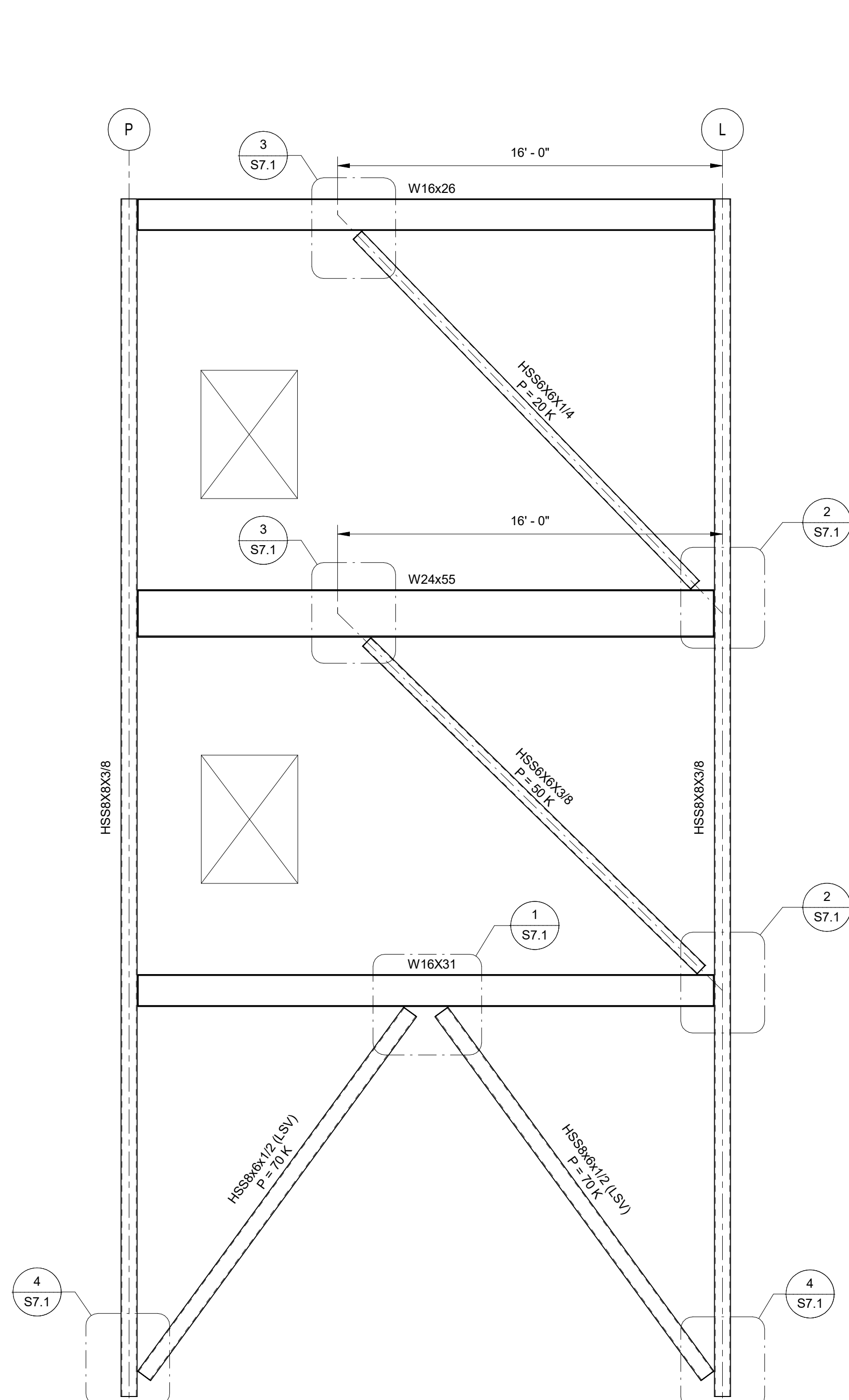
**BRACE ELEVATION 3/Q-R**  
SCALE: 1/4" = 1'-0"  
1 S7.3



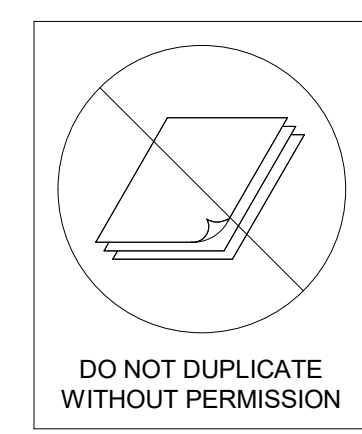
**BRACE ELEVATION C/4-5**  
SCALE: 1/4" = 1'-0"  
2 S7.3



**BRACE ELEVATION P/16-18**  
SCALE: 1/4" = 1'-0"  
3 S7.3

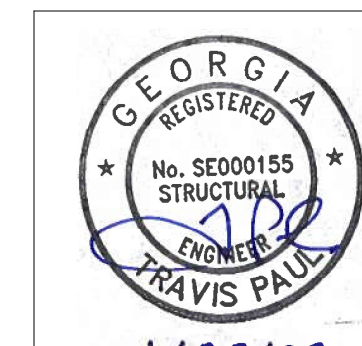


**BRACE ELEVATION 18/L-P**  
SCALE: 1/4" = 1'-0"  
4 S7.3



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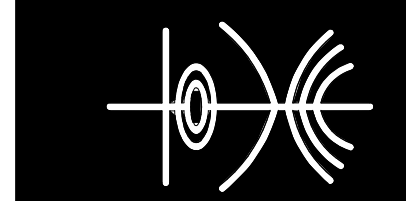
ADDRESS 1852 Century Place NE, Suite 201, Atlanta, Georgia 30345  
 PHONE 770-457-5923 FAX 770-457-5989 WEB www.pesengineers.com  
 PES PROJECT NUMBER: 0221164  
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1/28/22

S7.3

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE Check Set	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	Issue For Bid	
1/28/22	CONFORMED SET	



**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
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 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE

ISSUE DATE

DESIGNED BY

RAS

CHECKED BY

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APP. NO.

SHL-001-21

DATE

ISSUE DATE

DESIGNED BY

RAS

CHECKED BY

ABS

APP. NO.

SHL-001-21

DATE

ISSUE DATE

DESIGNED BY

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APP. NO.

SHL-001-21

DATE

ISSUE DATE

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DATE

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DESIGNED BY

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APP. NO.

SHL-001-21

DATE

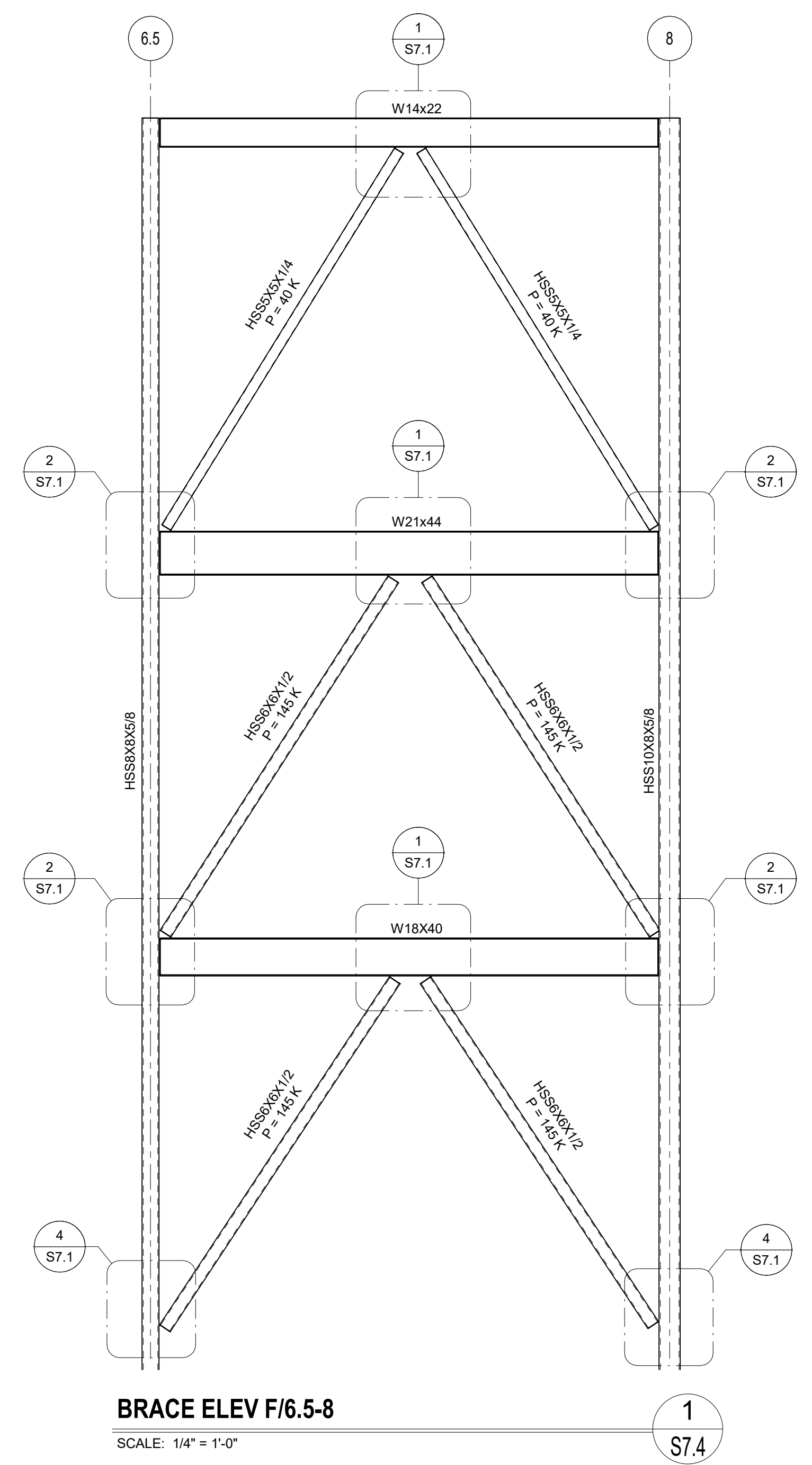
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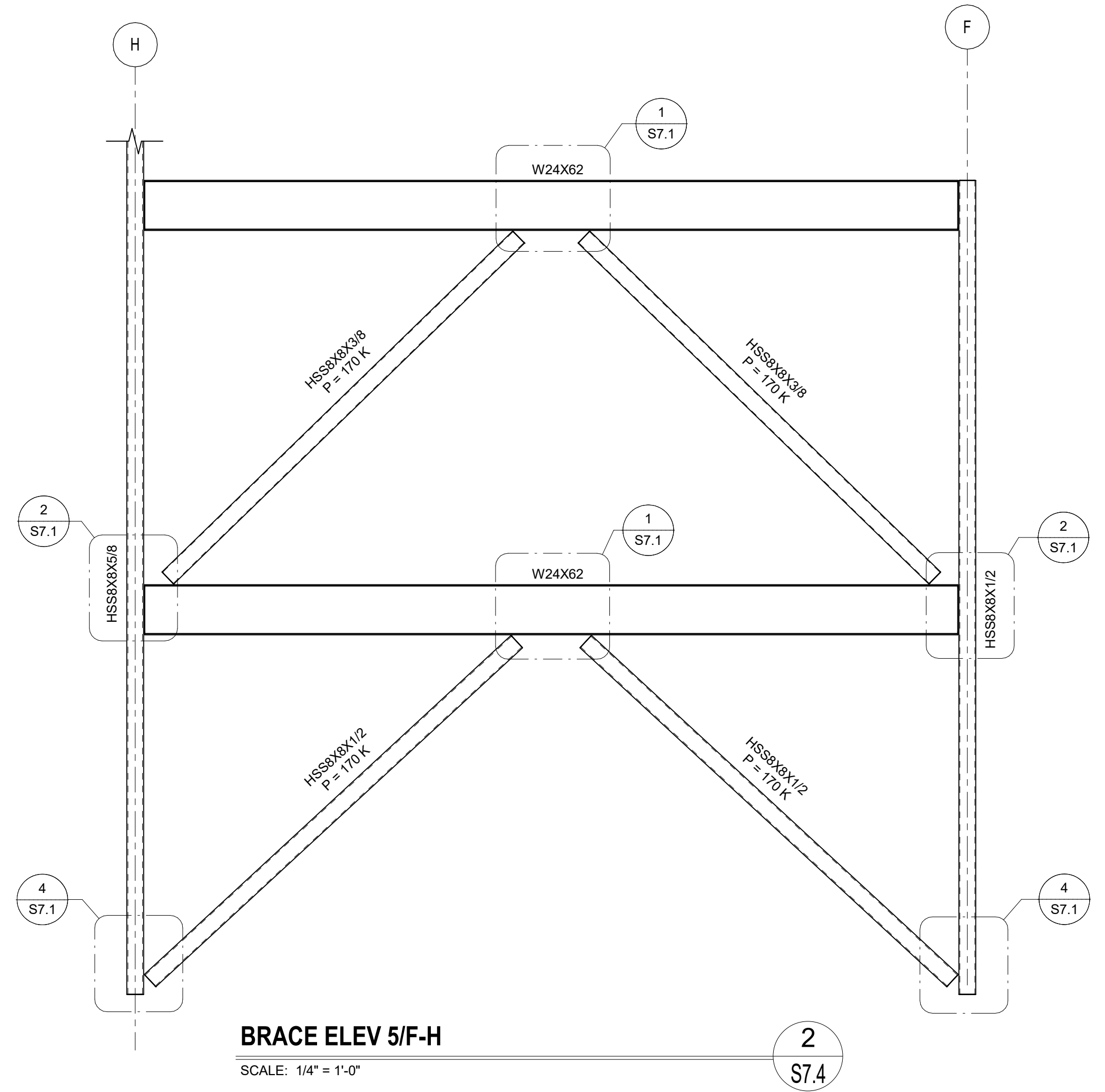
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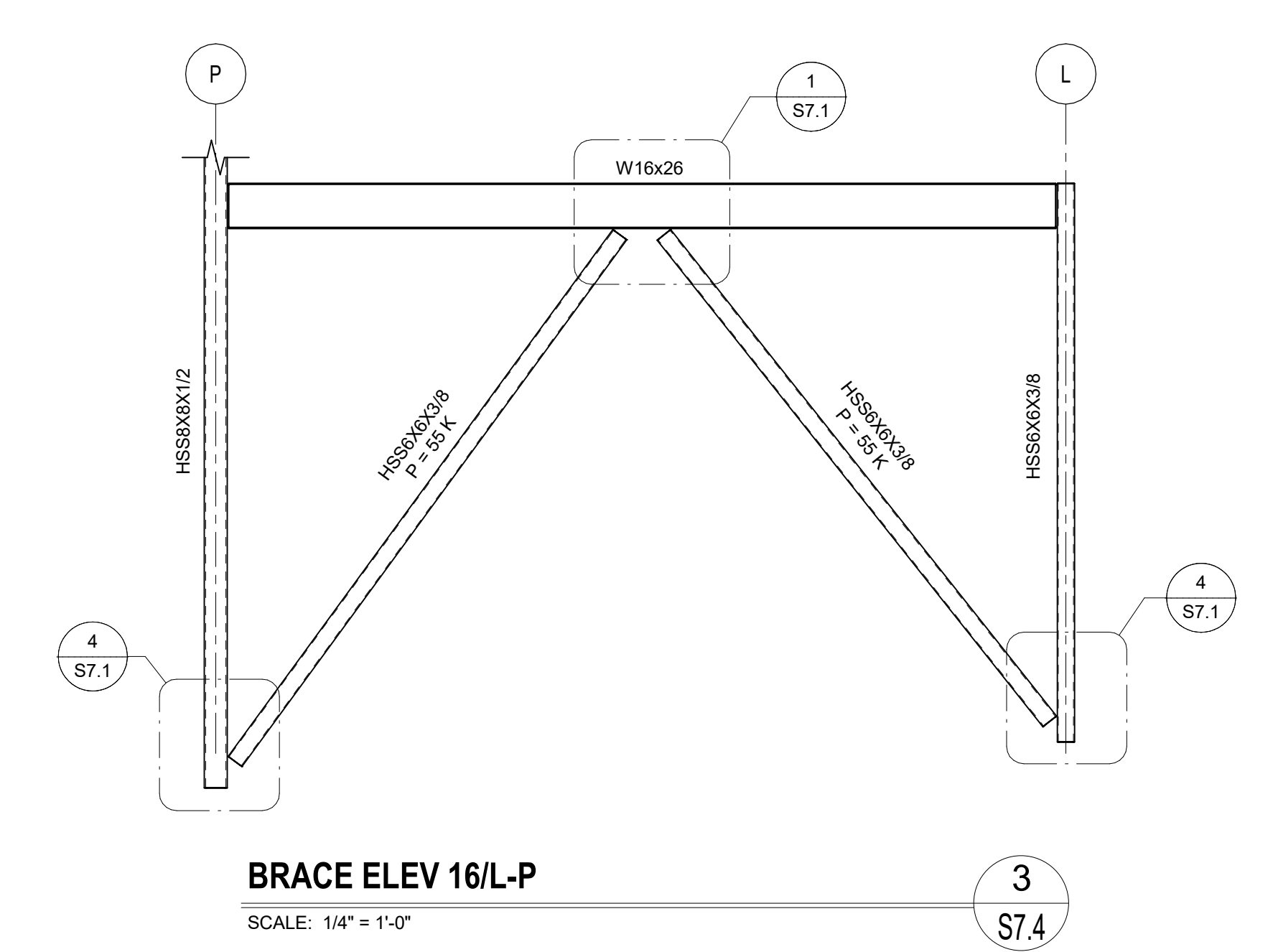
**BRACE ELEV F/6.5-8**

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



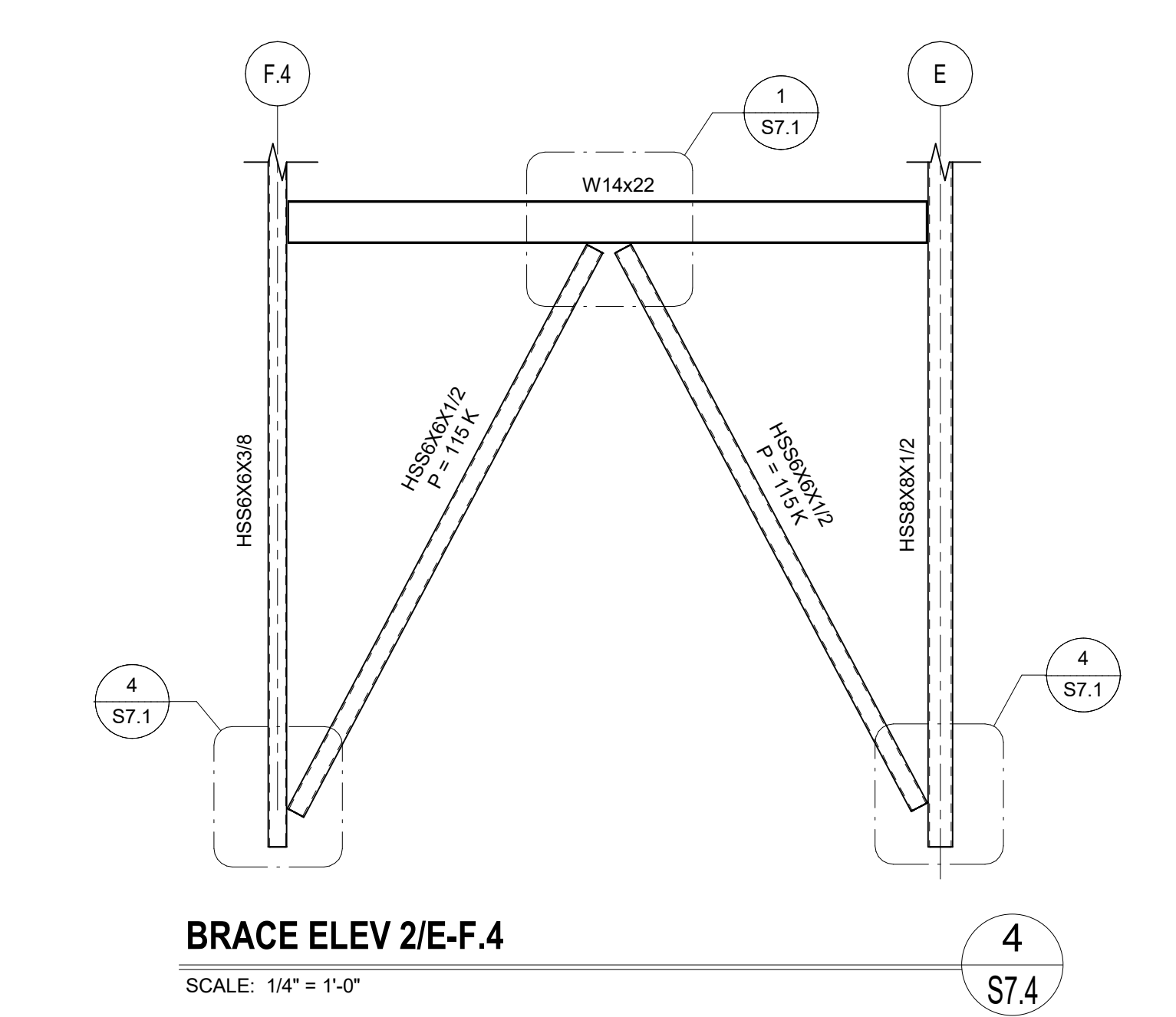
**BRACE ELEV 5/F-H**

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



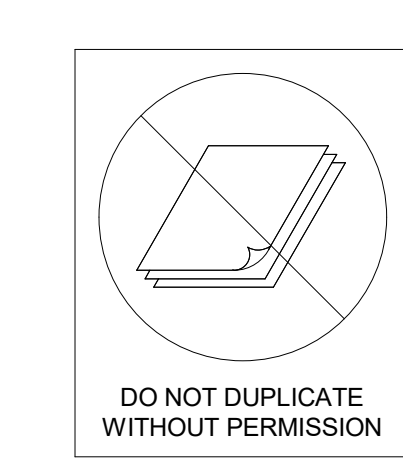
**BRACE ELEV 16/L-P**

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

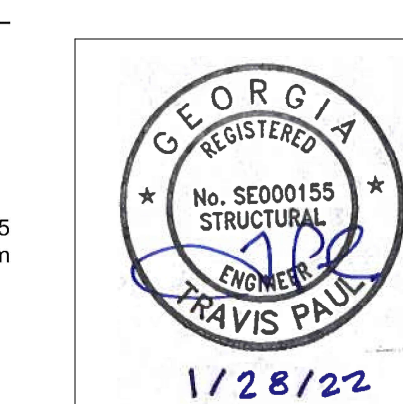


**BRACE ELEV 2/E-F.4**

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



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**S7.4**

DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/20/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	

BUILDING ELEMENT	FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)		
	TYPE II	TYPE I	DETAILS
PRIMARY STRUCTURAL FRAME (a)	A	X71 D915 PT32	SF1.1 SFL.2 SFL.2
BEARING WALLS Exterior (7g) Interior	1	U425 U438 HW-0-008 U439 U438	6P1.1 7P1.1 12P1.1 SFL.2 SFL.2
NON BEARING WALLS AND PARTITIONS Exterior (7g) Interior (a)	See Table 602		
FLOOR CONSTRUCTION AND ASSOCIATED SECOND MEMBERS (SEE SECTION 202)	1	D925	SFL.2 See 4P1.1 See 4P1.2
ROOF CONSTRUCTION AND ASSOCIATED SECOND MEMBERS (SEE SECTION 202)	1(b)(c)	PT32	1P1.2

**NOTE: ALL VALUES LISTED IN TABLE ABOVE APPLY TO THIS PROJECT**

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 AND B-1, CATEGORY I, FIRE PROTECTION OF STRUCTURAL MEMBERS SHALL NOT BE REQUIRED, INCLUDING PROTECTION OF ROOF FRAMING AND BEARING WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 2 FEET OR MORE ABOVE ANY FLOOR IMMEDIATELY BELOW.

c. FIRE-RATED TREATED WOOD MEMBERS SHALL BE ALLOWED TO BE USED FOR SUCH UNPROTECTED MEMBERS.

d. IN ALL OCCUPIED AREAS, HEAVY TIMBER SHALL BE ALLOWED WHERE A 1-HOUR OR LESS FIRE-RESISTANCE RATING IS REQUIRED.

e. NOT APPLICABLE.

f. NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED BY OTHER SECTION OF THIS CODE.

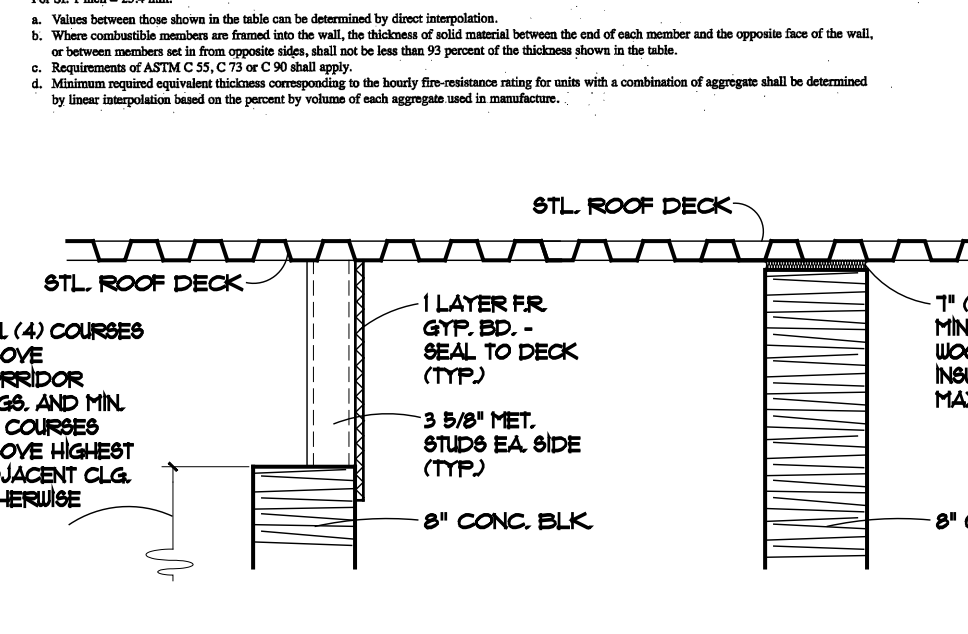
g. NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE USE TABLE 602 OF IBC 2018 (P. 108).

h. NOT LESS THAN THE FIRE-RESISTANCE RATING AS REFERENCED IN SECTION 704.10

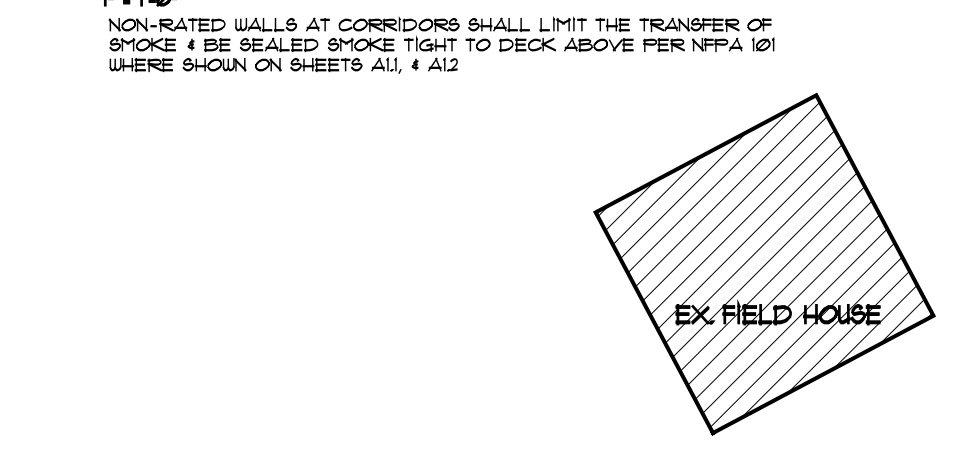
TYPE OF AGGREGATE	MINIMUM EQUIV. THICKNESS (inches)											
	FIRE-RESISTANCE RATING (hours)				FIRE-RESISTANCE RATING (hours)				FIRE-RESISTANCE RATING (hours)			
Ungraded, clean, or washed	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0
Graded, clean, or washed	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0
Graded, clean, or washed, with 3/4" max. aggregate	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0
Graded, clean, or washed, with 1/2" max. aggregate	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0

CONCRETE TYPE	MINIMUM SLAB THICKNESS (inches)			
	1 1/2	2	3	4
Siliceous	3.5	4.3	5.0	6.2
Carbonate	3.2	4.0	4.6	5.7
Sand-lightweight	2.7	3.3	3.8	4.6
* Lightweight	2.5	3.1	3.7	4.4

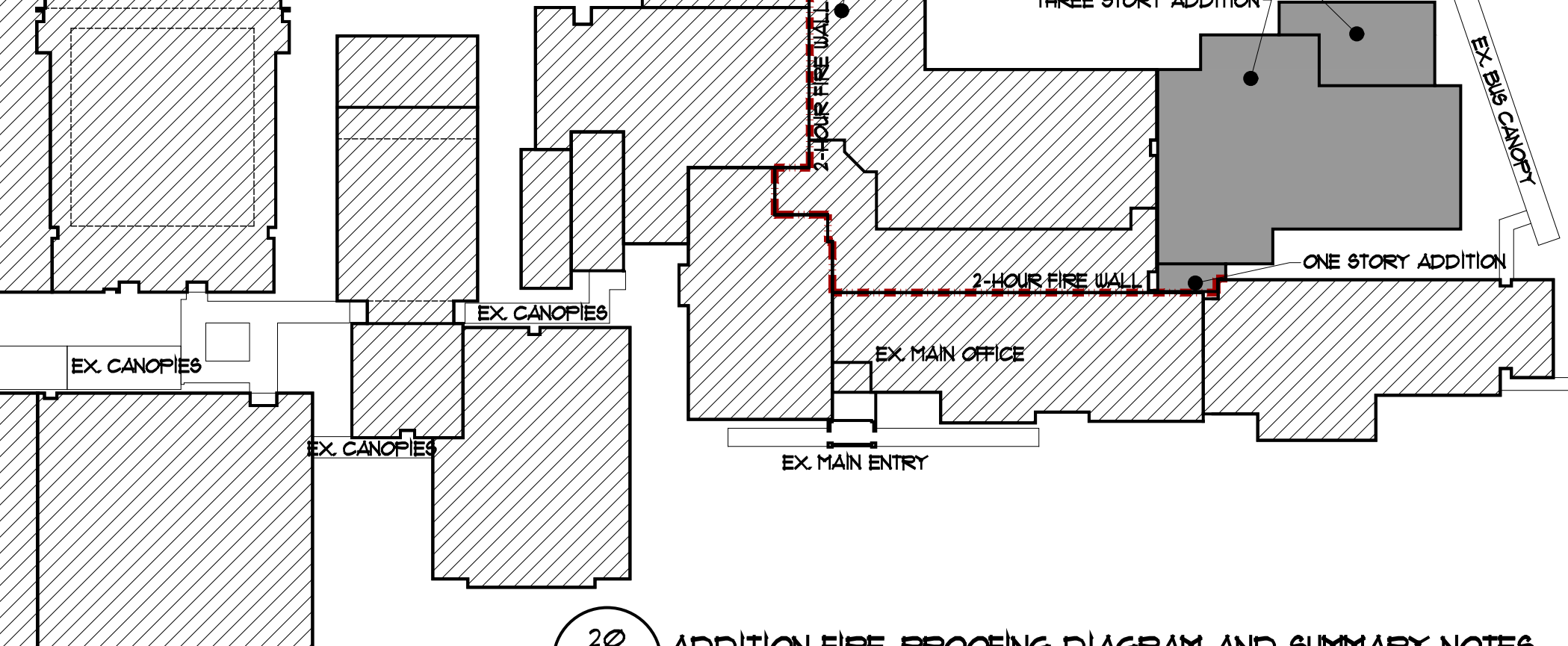
For 12" in ch. to 24" diam.



**17 TYP. DET. @ NON-RATED WALLS EXTENDED TO BOT. OF ROOF FLOOR DECK ABOVE**

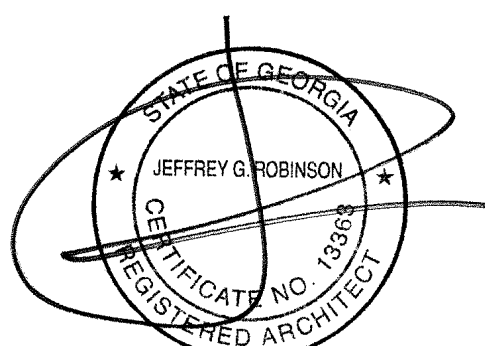


**18 F.E. CABINET & BRACKET ELEV. 12" x 18"**



**20 ADDITION FIRE-PROOFING DIAGRAM AND SUMMARY NOTES TYPE IIA CONSTRUCTION, FULLY SPRINKLED PER NFPA 13**

FLOOR	FLOOR CONSTRUCTION AT ELEVATED CONCRETE SLAB ON 3-STORY PORTION OF THE ADDITION IS METAL DECK WITH 3/4" LIGHTWEIGHT CONCRETE ABOVE DECK FLUTES, FOR A 2-HOUR RATING WITHOUT BRANT-FIREPROOFING THE DECK - SEE DETAIL 2/FI, U/L DESIGN P125. FLOOR FRAMING SHALL HAVE SPRAY-ON FIREPROOFING TO 2-HOUR PROTECTION, ALSO PER U/L D925.
FLOOR NOTE 1	SEE DETAILS 12/FI 4 & 3/FI FOR PENETRATIONS THRU RATED FLOOR.
FRAME	FRAME NOTE 1: STRUCTURAL FRAME SUPPORTING A ROOF ONLY, SHALL HAVE SPRAY-ON FIREPROOFING TO 1-HOUR PROTECTION (REF: IBC TABLE 601, FOOTNOTE 'A') - SEE DETAIL 11/FI, U/L DESIGN XT11. FRAME NOTE 2: STRUCTURAL FRAME SUPPORTING MORE THAN ONE STORY SHALL HAVE SPRAY-ON FIREPROOFING TO 2-HOUR PROTECTION (REF: IBC TABLE 601) - SEE DETAIL 11/FI, U/L DESIGN XT11. FRAME NOTE 3: ALL STRUCTURE LOCATED WITHIN A RATED WALL SHALL HAVE SPRAY-ON FIREPROOFING PROTECTION EQUAL TO THE RATING OF THE WALL WITH WHICH THE STRUCTURE IS LOCATED.
ROOF	ROOF CONSTRUCTION IS METAL DECK WITH SPRAY-ON FIREPROOFING TO 1-HOUR PROTECTION - SEE DET. 1P12, U/L DESIGN PT32.
	EXISTING NORTH GUINNETT HIGH SCHOOL BUILDINGS - MIX OF TYPE IIA & IIB CONSTRUCTION, FULLY SPRINKLED, TOTAL AREA = 473,841 SF.
	ADDITION - THIRD LEVEL: +22,460 SF. SECOND LEVEL: +22,460 SF. MAIN LEVEL: +22,460 SF. TOTAL BLDG. AREA = 471,991 SF.



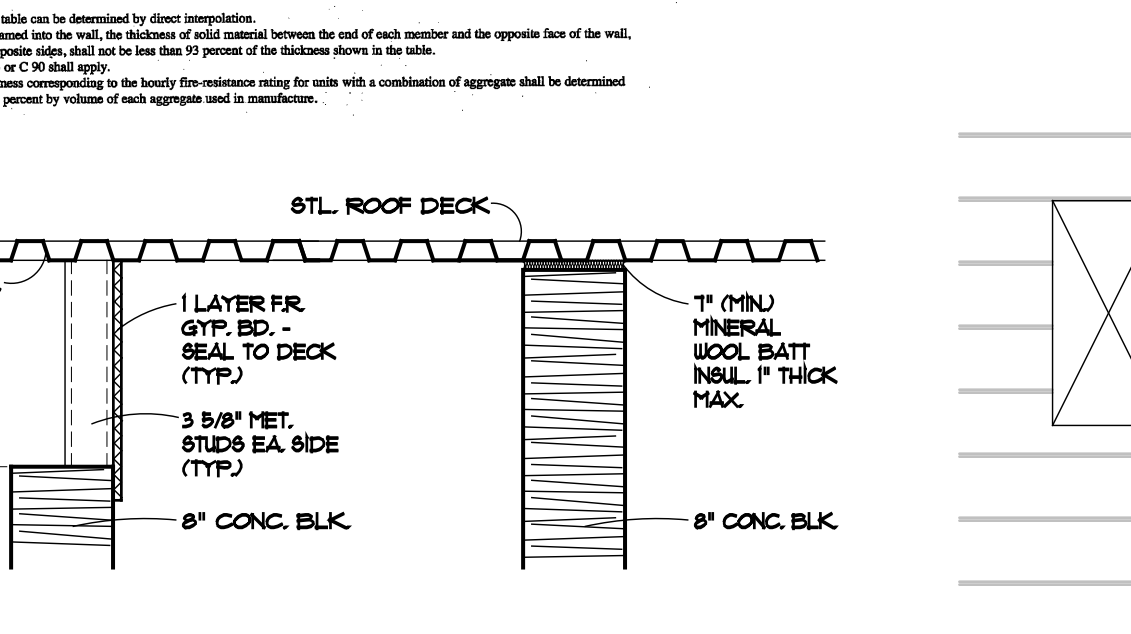
**14 FIRE RESISTANCE RATINGS**

TAKEN FROM "INTERNATIONAL BUILDING CODES", 2018 EDITION, P. 801

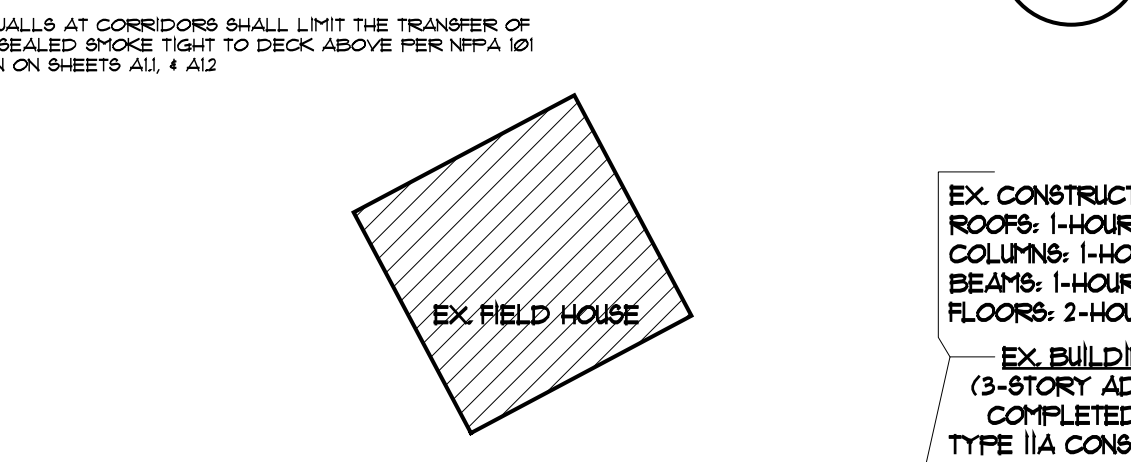
TABLE 602  
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

TAKEN FROM "INTERNATIONAL BUILDING CODES", DATED 2006, P. 140

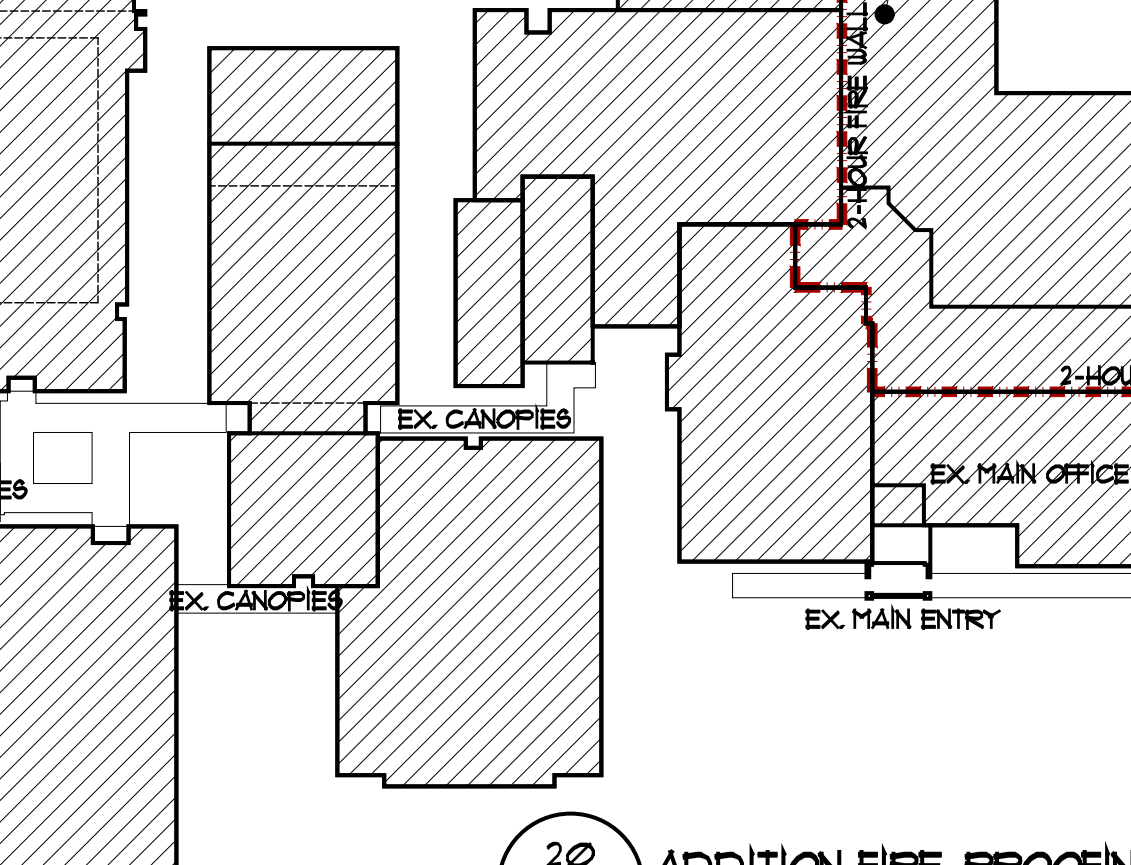
TABLE 720.2.2.1  
MINIMUM SLAB THICKNESS (inches)



**17 TYP. DET. AT 1-HR & 2 HR WALLS EXTENDED TO DECK ABOVE BEAM OR JOIST**



**17 TYP. DET. AT 1-HR & 2 HR WALLS EXTENDED TO DECK ABOVE BEAM OR JOIST**

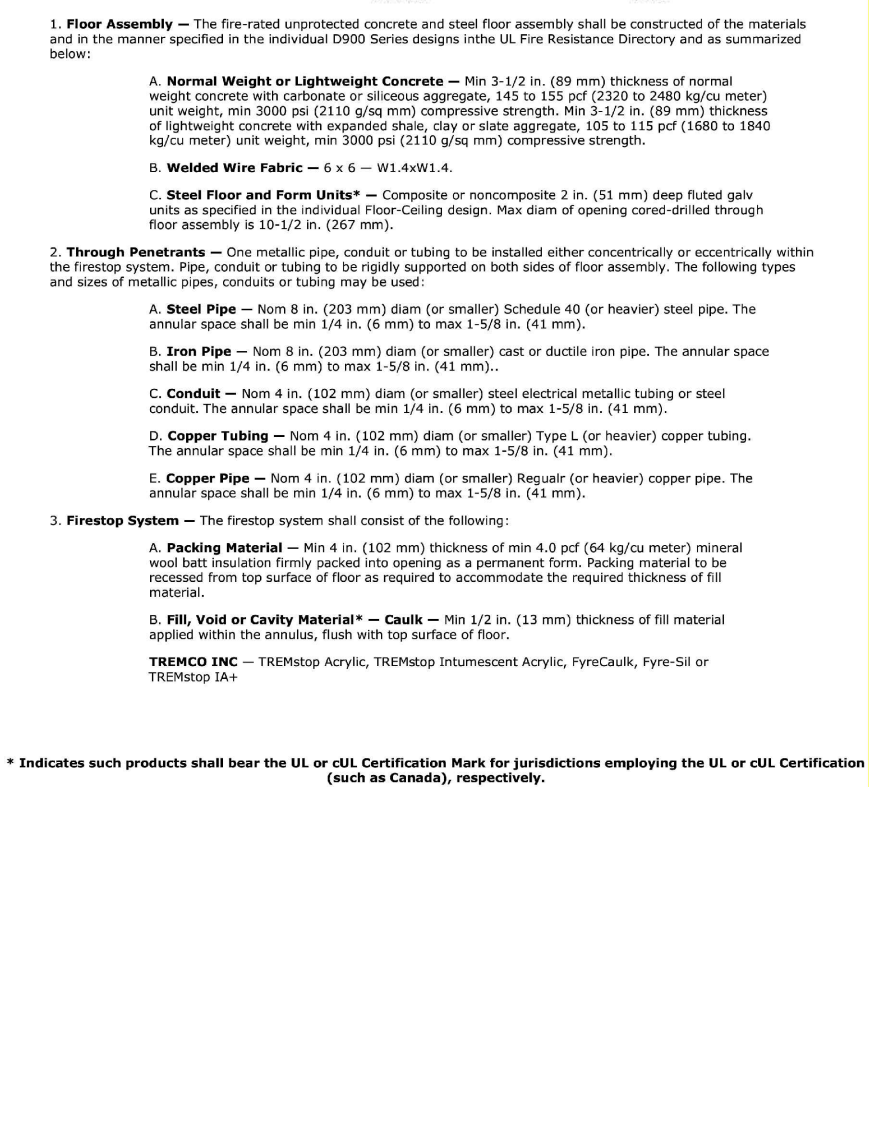
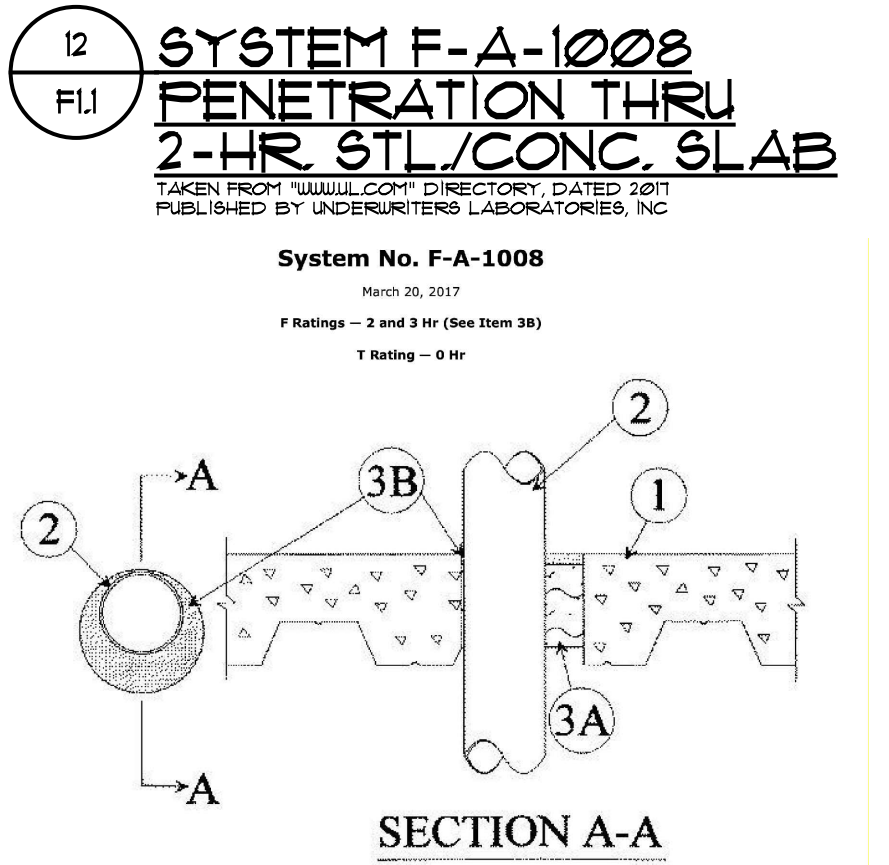
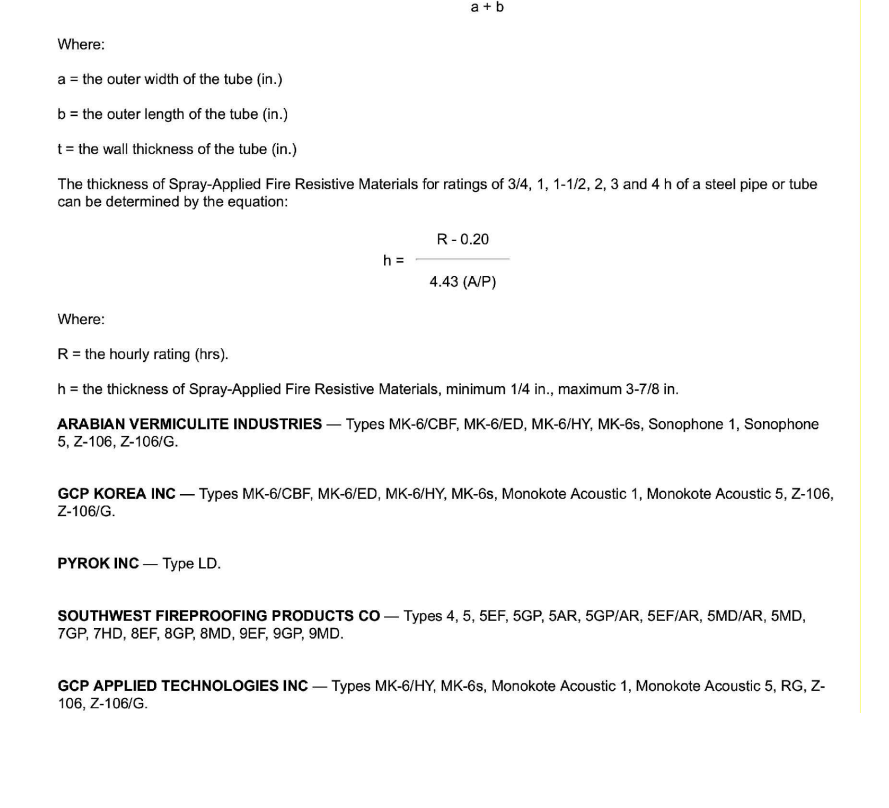
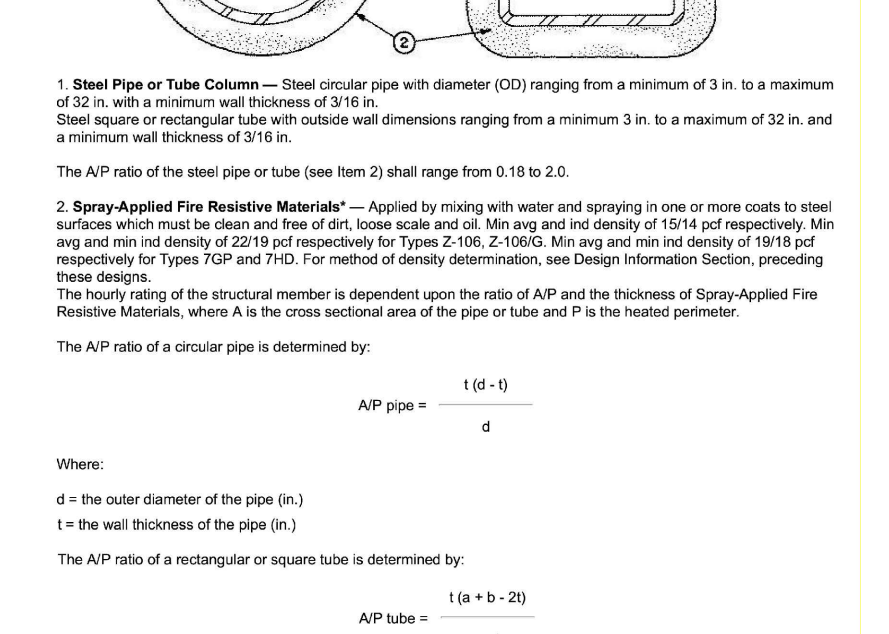
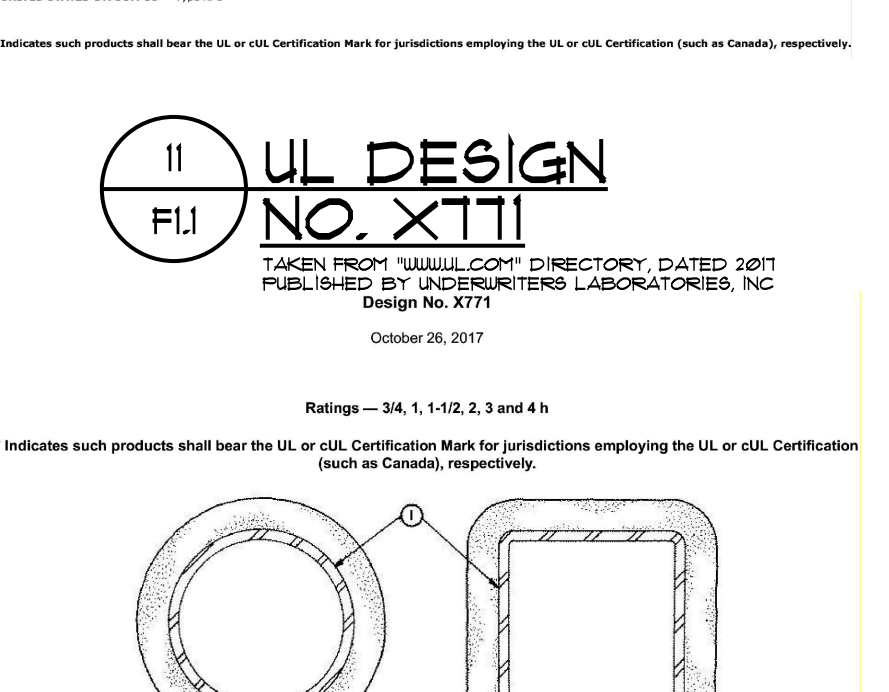
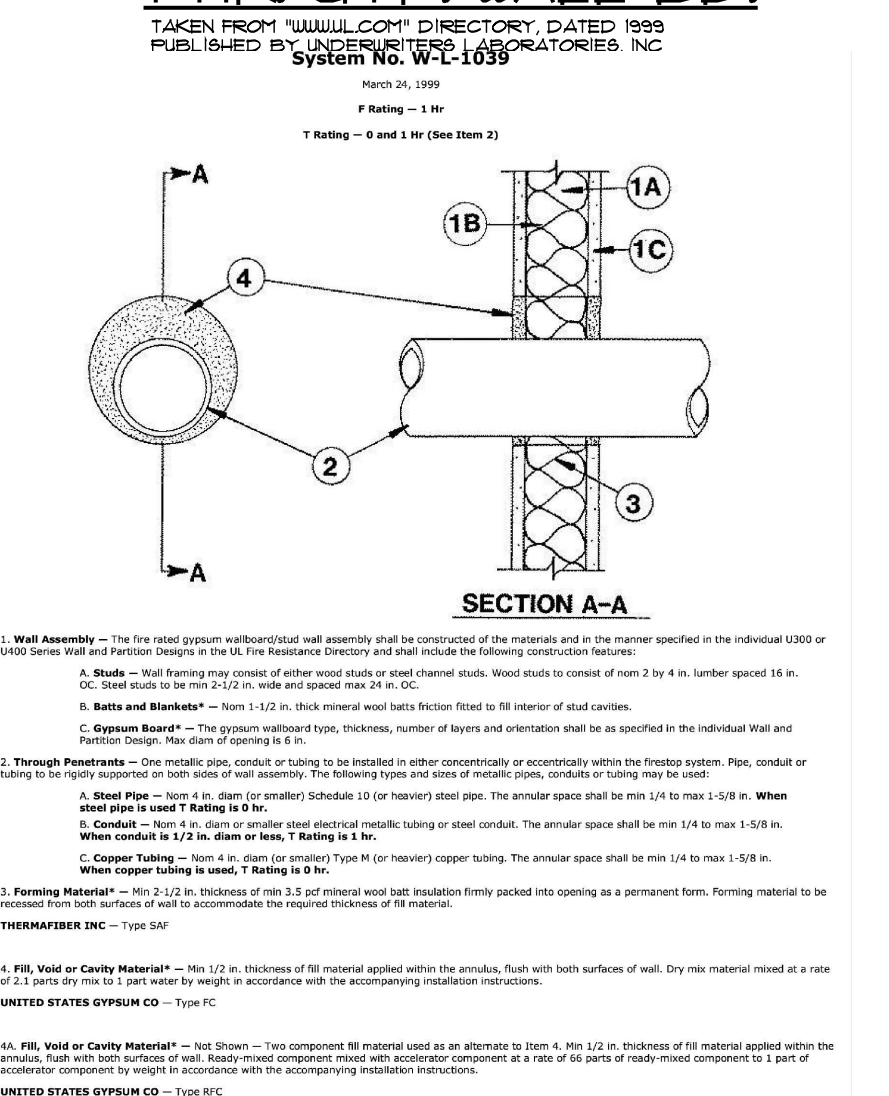


**17 TYP. DET. AT 1-HR & 2 HR WALLS EXTENDED TO DECK ABOVE BEAM OR JOIST**

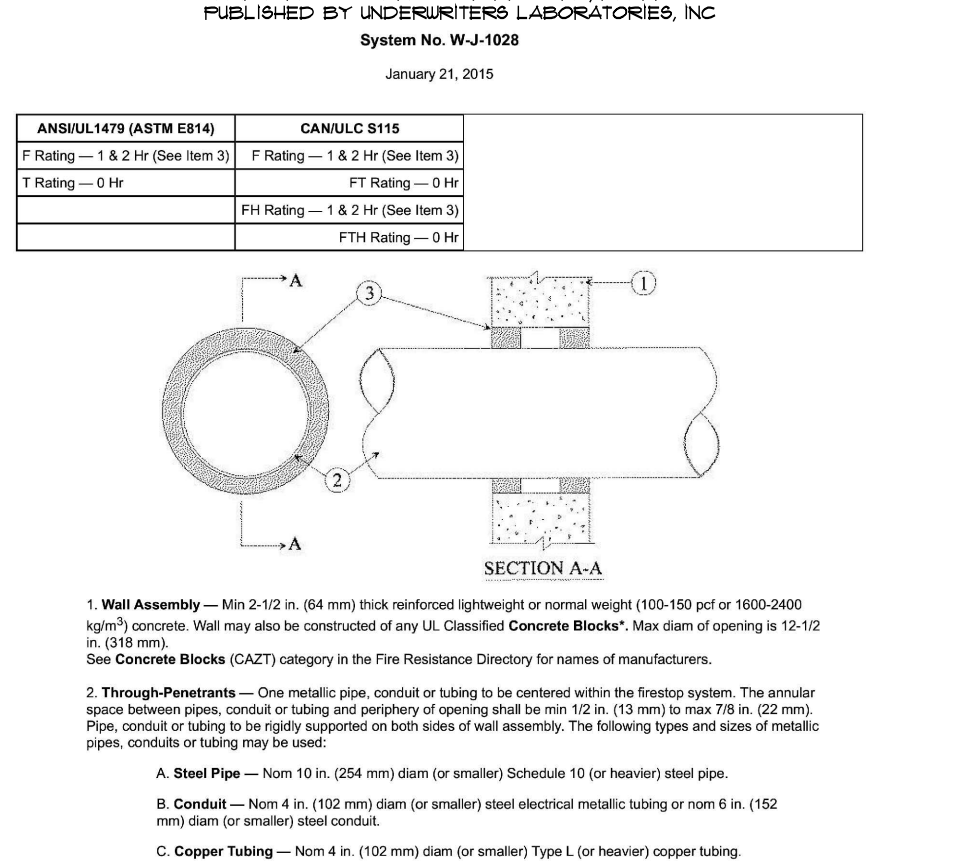
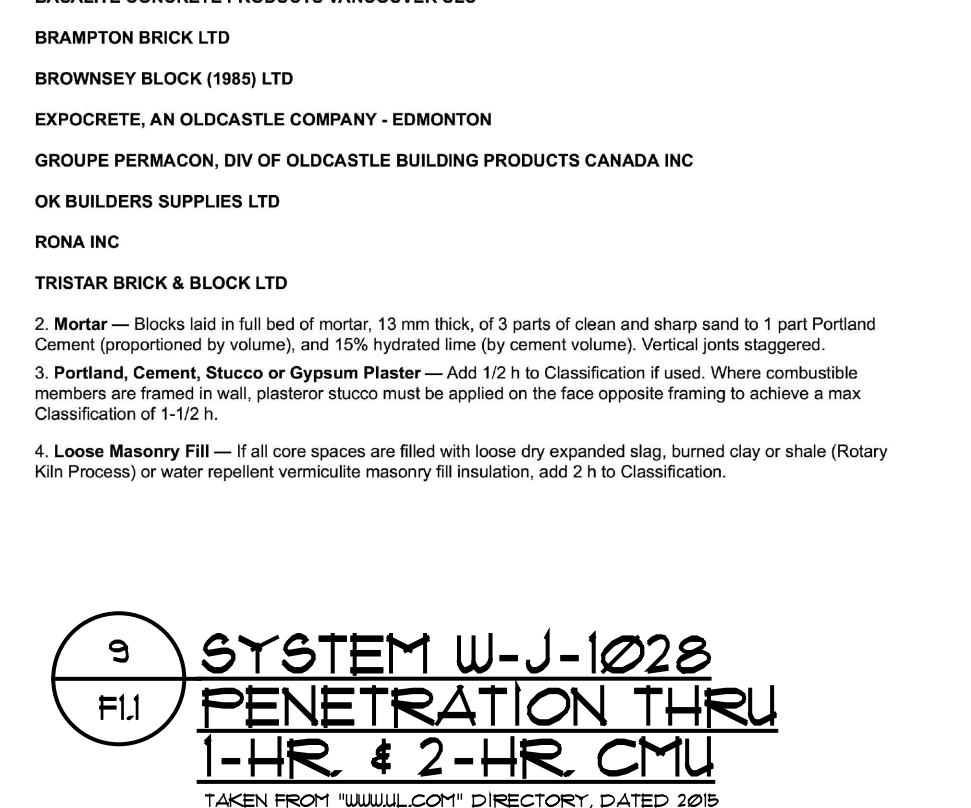
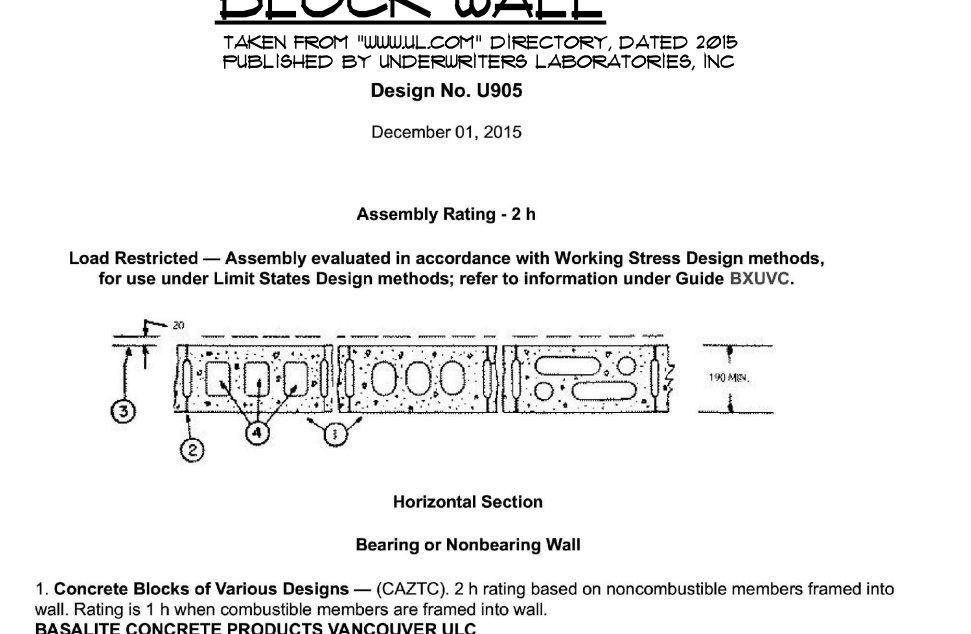
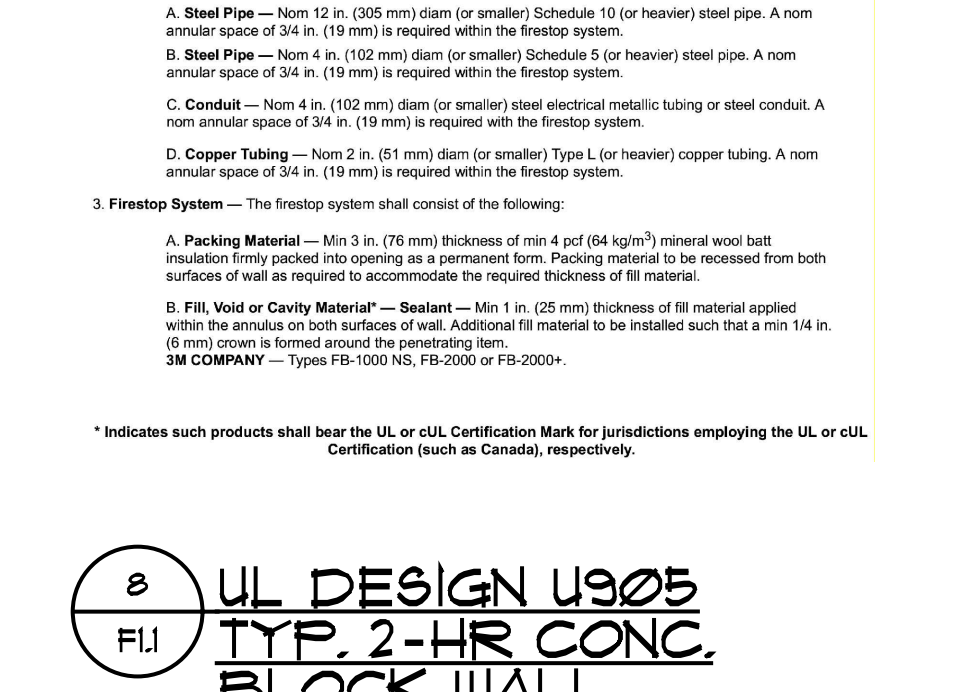
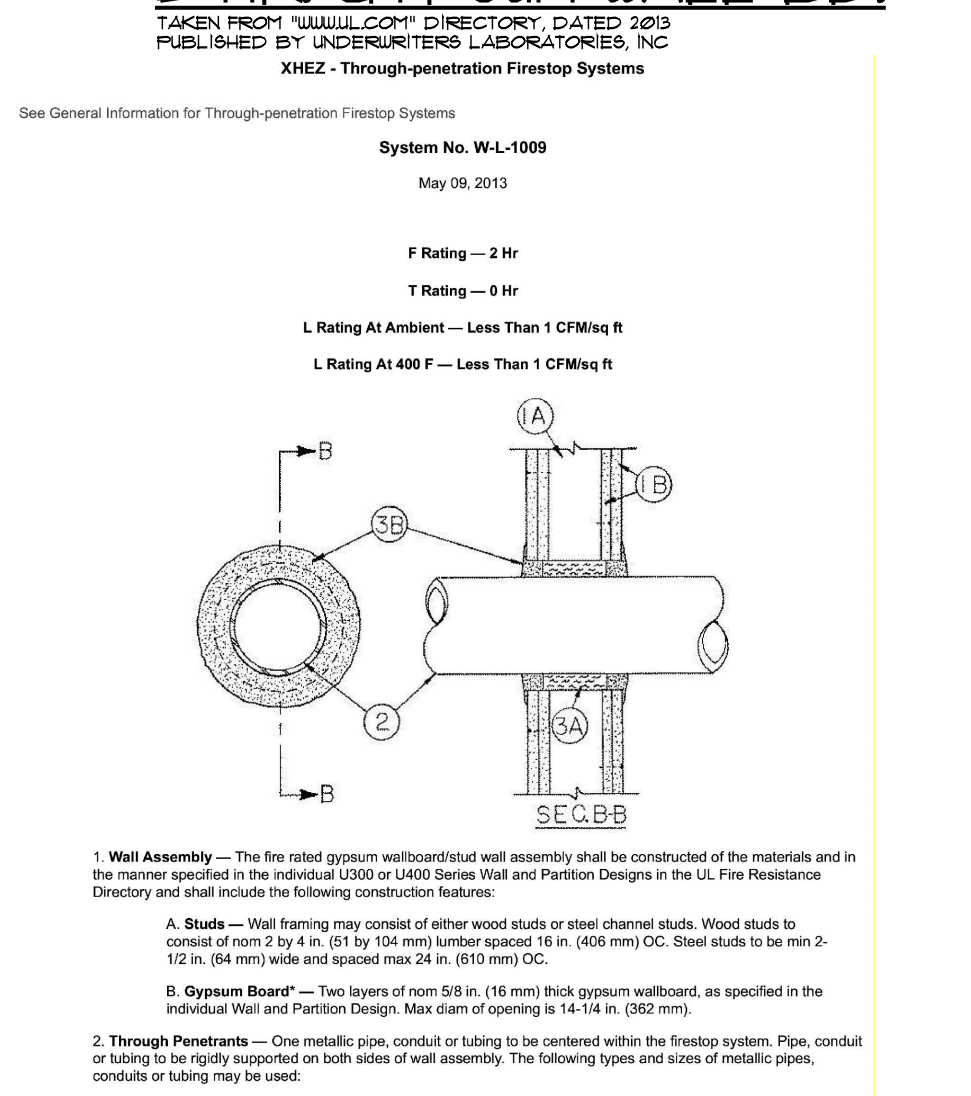
**17 TYP. DET. AT 1-HR & 2 HR WALLS EXTENDED TO DECK ABOVE BEAM OR JOIST**

**NOTE:** ALL PENETRATIONS THRU FIRE WALLS SHALL BE FIRE STOPPED WITH 3/8" FIRE BARRIER OR EQUAL PRODUCTS MEETING UL 1478 OR ANY EQA FIRE RATING IN ACCORDANCE WITH ARTICLE 508.2(2) OF THE NATIONAL ELECTRICAL CODE.

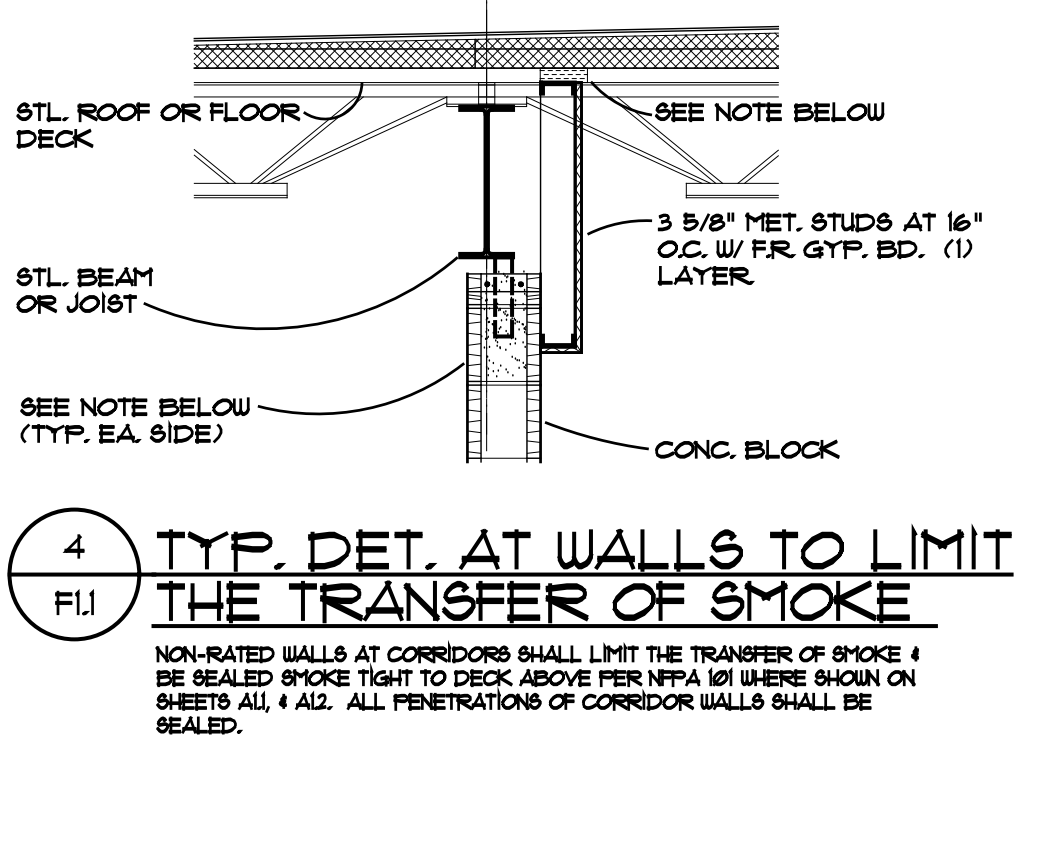
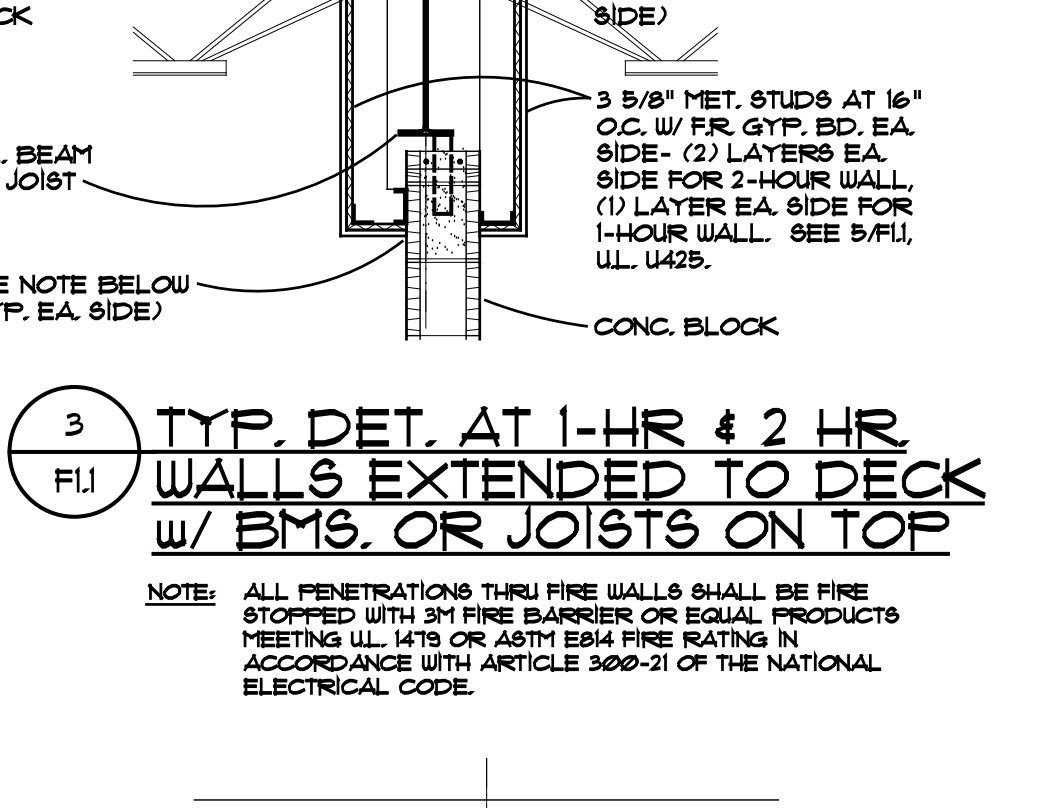
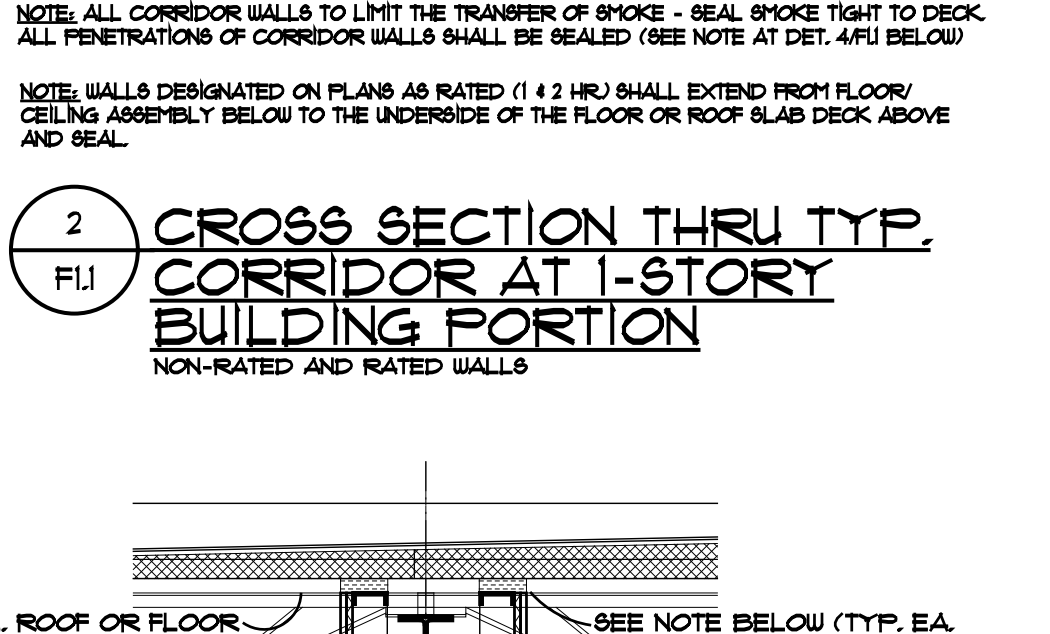
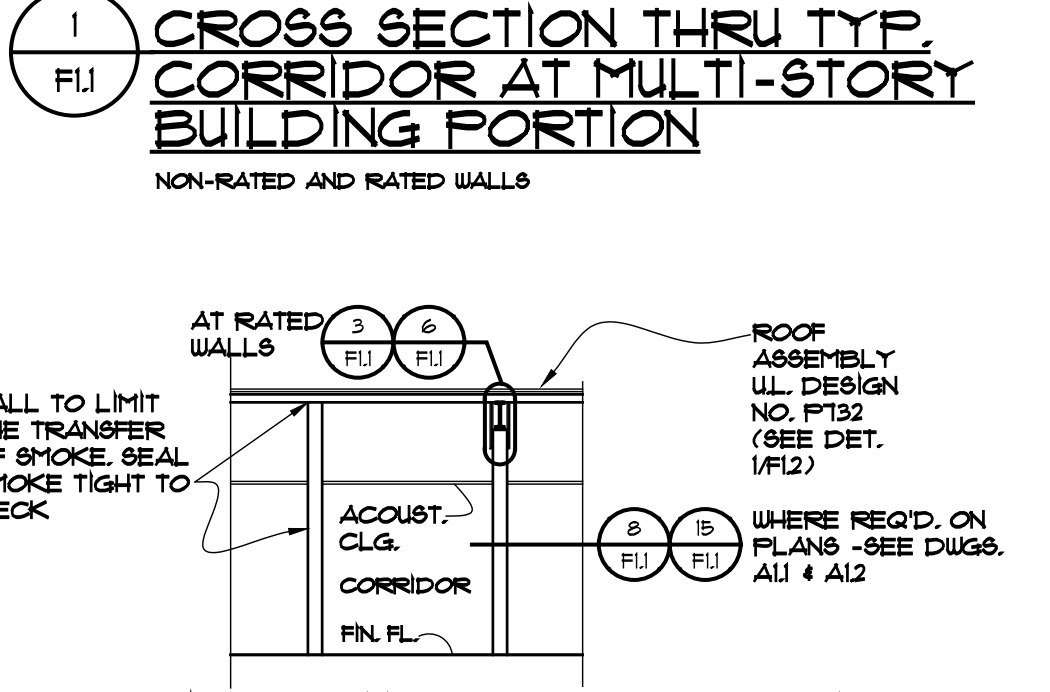
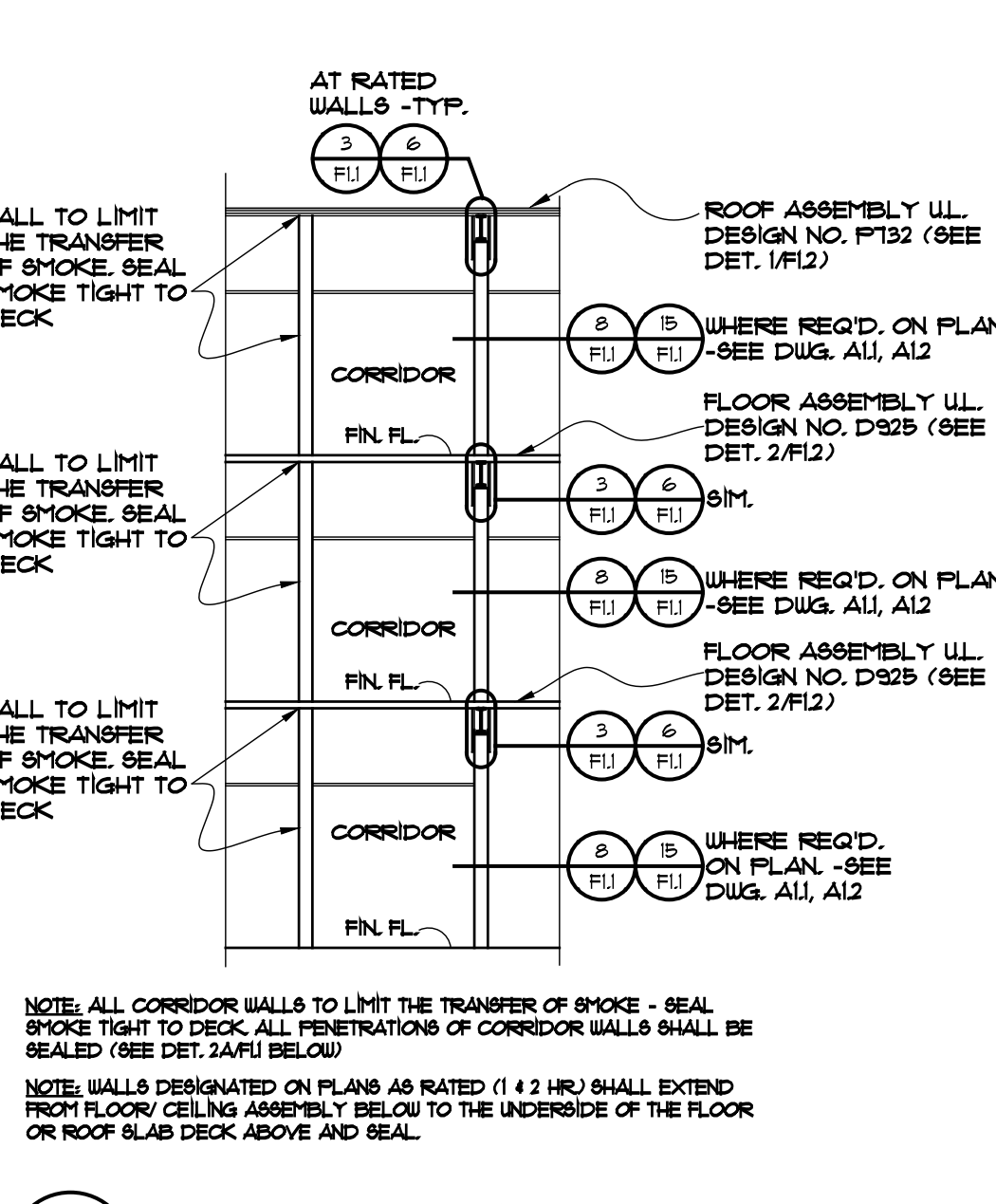
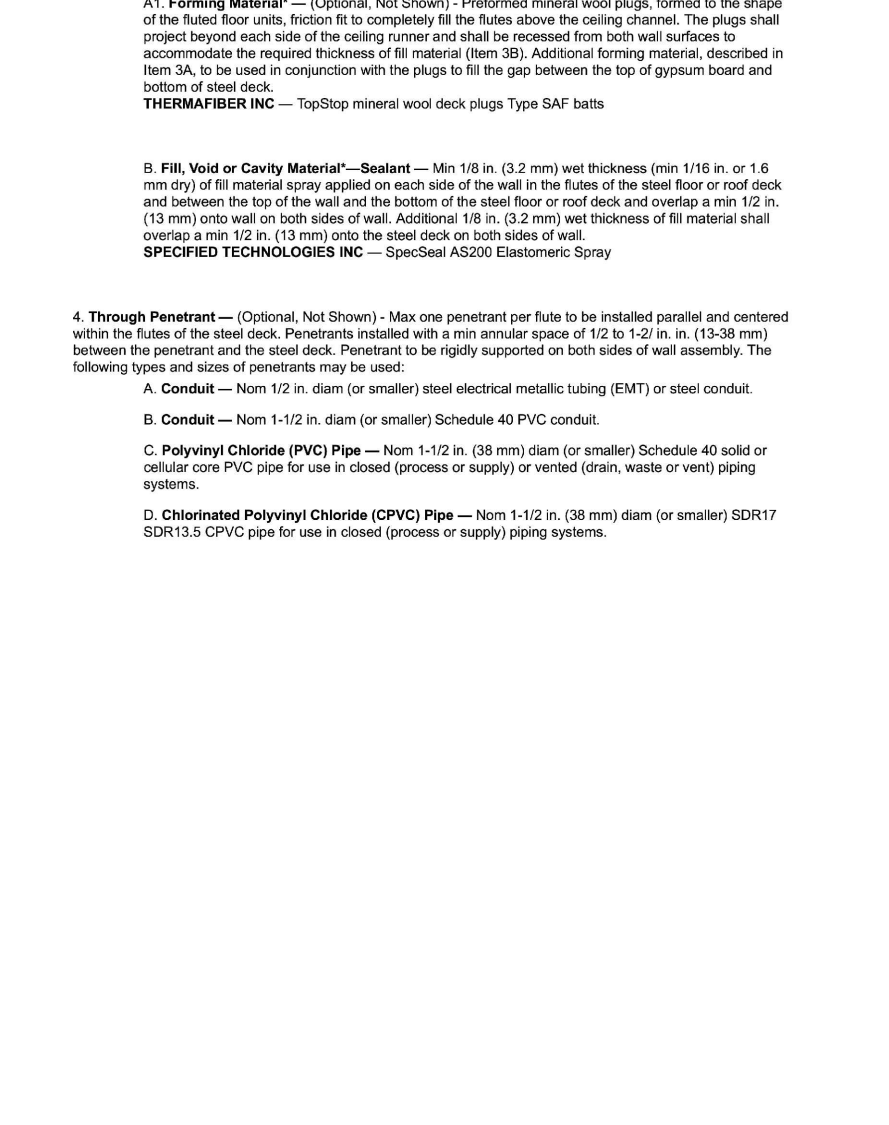
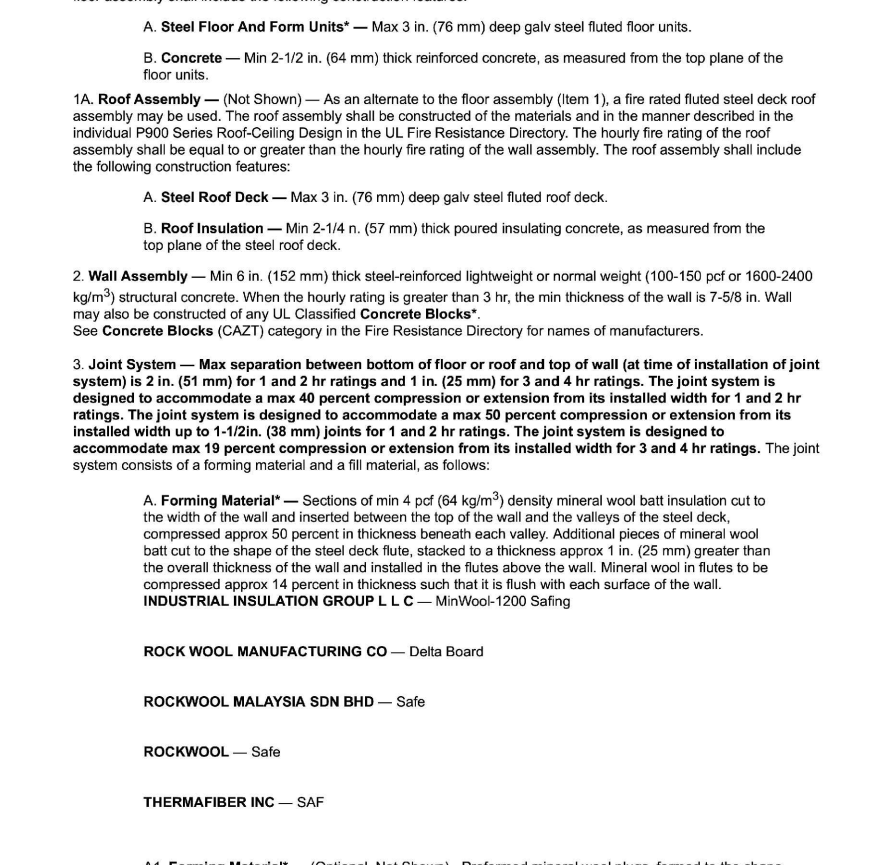
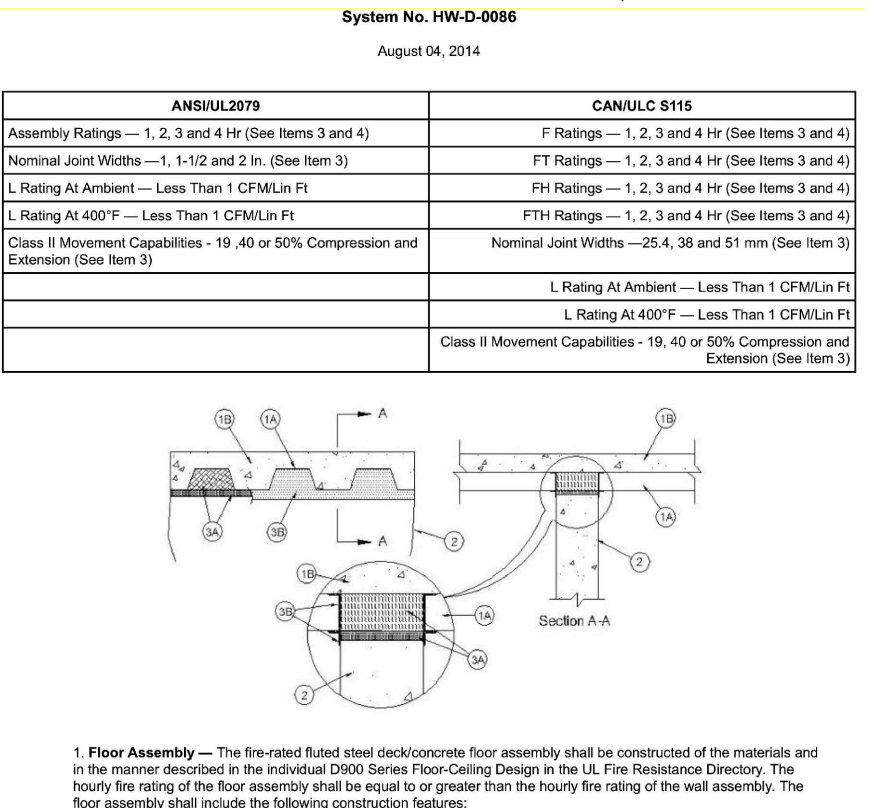
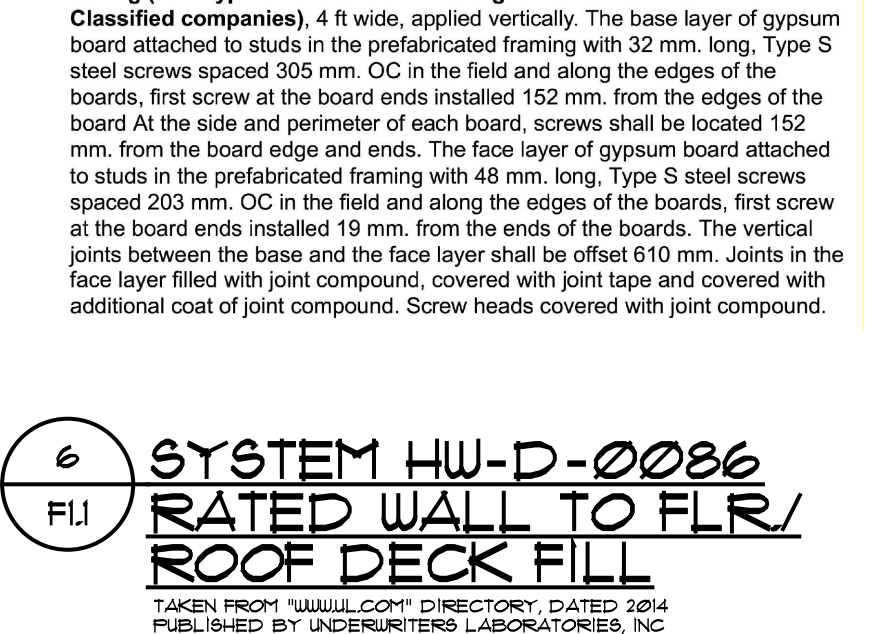
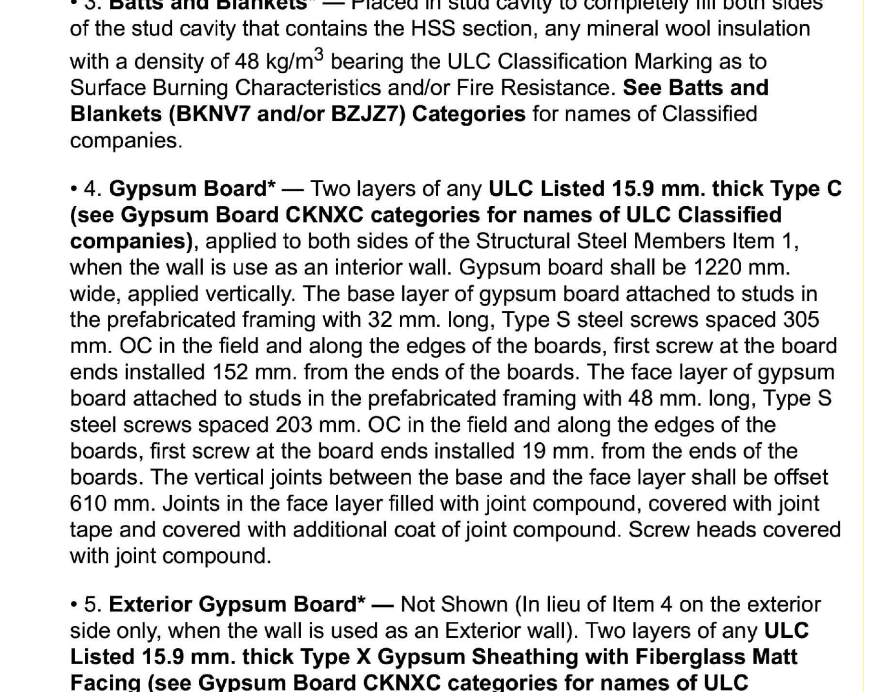
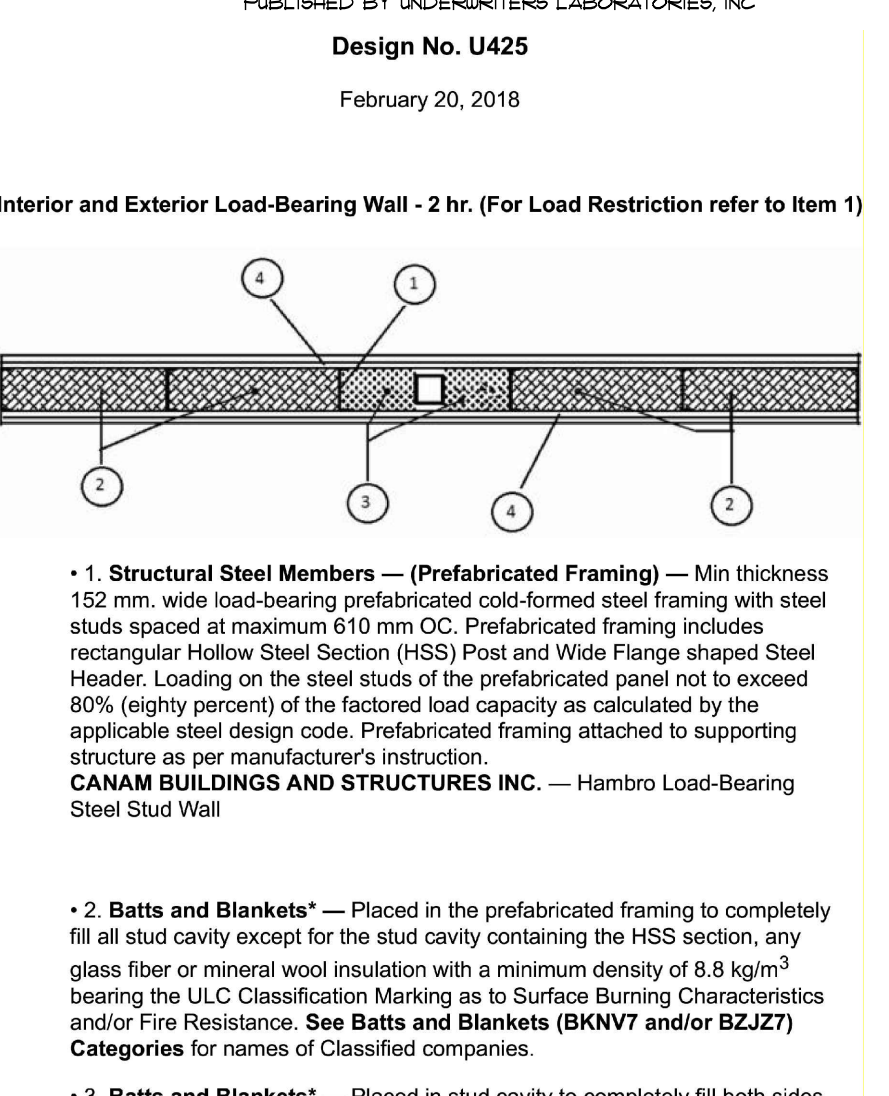
**10 SYSTEM NO. W-L-1039 PENETRATION THRU 2-HR GYP. WALL BD.**



**7 SYSTEM NO. W-L-1009 PENETRATION THRU 2-HR GYP. WALL BD.**



**5 UL DESIGN NO. U425**





**LIFE SAFETY GENERAL NOTES:**

**NOTE L91- OCCUPANT LOADS CALCULATED AS FOLLOWS:**

CLASSROOM/ EDUCATIONAL - 20 SF. PER PERSON  
BAND/ VOCATIONAL (HEALTH) - 50 SF. PER PERSON  
OFFICE/ WORKROOM - 100 SF. PER PERSON  
STORAGE/ MECH/ ELEC/ IDF - 0 SF. PER PERSON  
UNFINISHED SPACE (FUTURE) - 0 SF. PER PERSON

**ALLOWABLE AREA CALCS PER IBC (SEC. 506) AS FOLLOWS:**

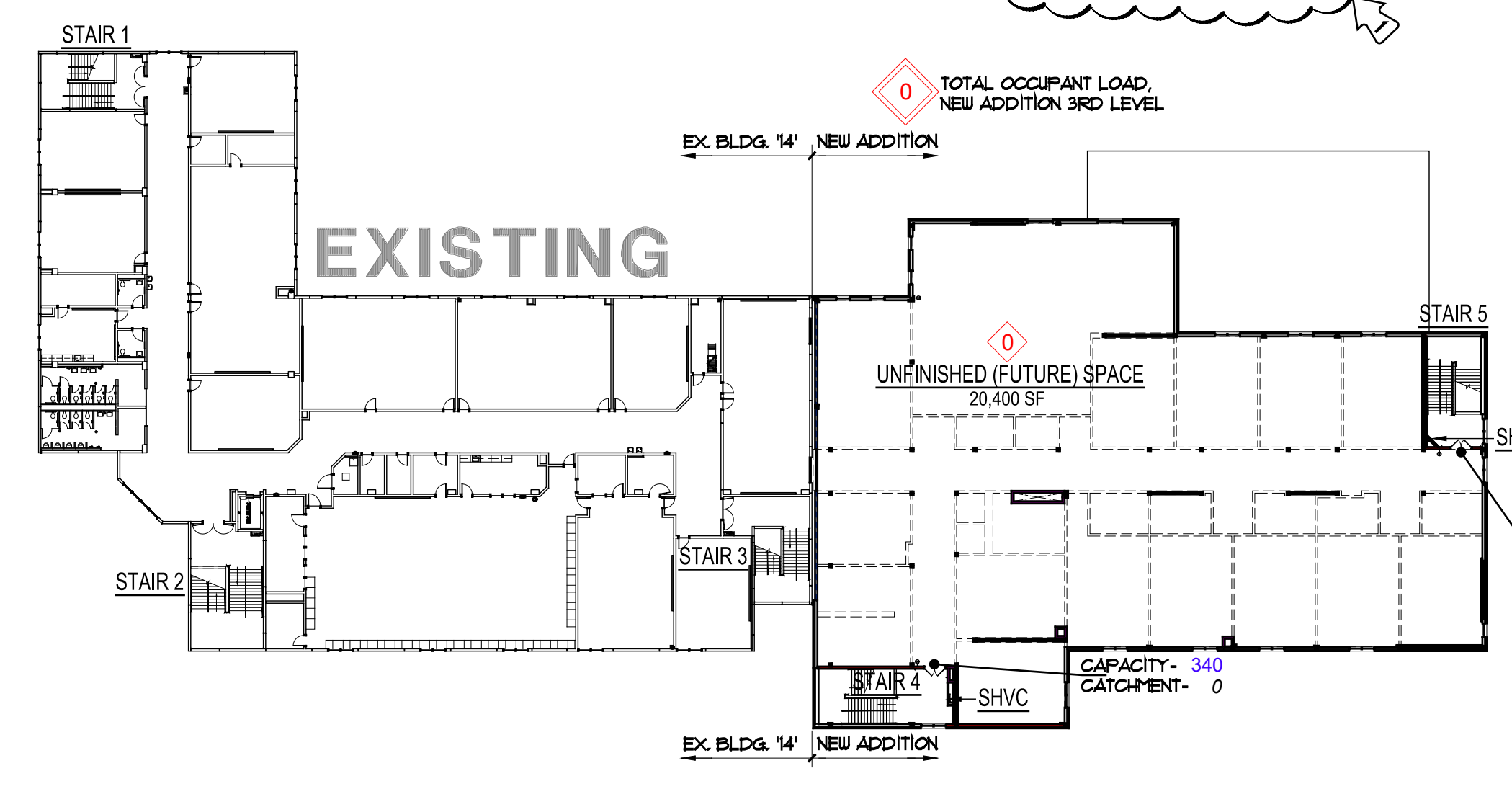
IBC TABLE 506.2 - OCCUPANCY CLASS 'E' - FOOTNOTE '9M':  
 $A_a = (A_t + (N_s \times F)) \times 5a$   
 $A_a = (79,500 + (26,500 \times 35)) \times 3$   
 $A_a = (79,500 + 9,275) \times 3$   
 $A_a = (88,775) \times 3 = 266,325 \text{ SF. (79,500 SF. PER FLOOR MAX.)}$

**BUILDING AREAS, SQUARE FEET (EXISTING, ADDITION, & COMBINED):**

	EX. BLDG. 14	NEW EAST ADDITION	COMBINED TOTAL
MAIN LEVEL:	31,670	21,070	52,740
2ND LEVEL:	25,865	22,460	48,325
3RD LEVEL:	25,865	22,460	48,325
TOTALS:	83,400	66,000	149,400

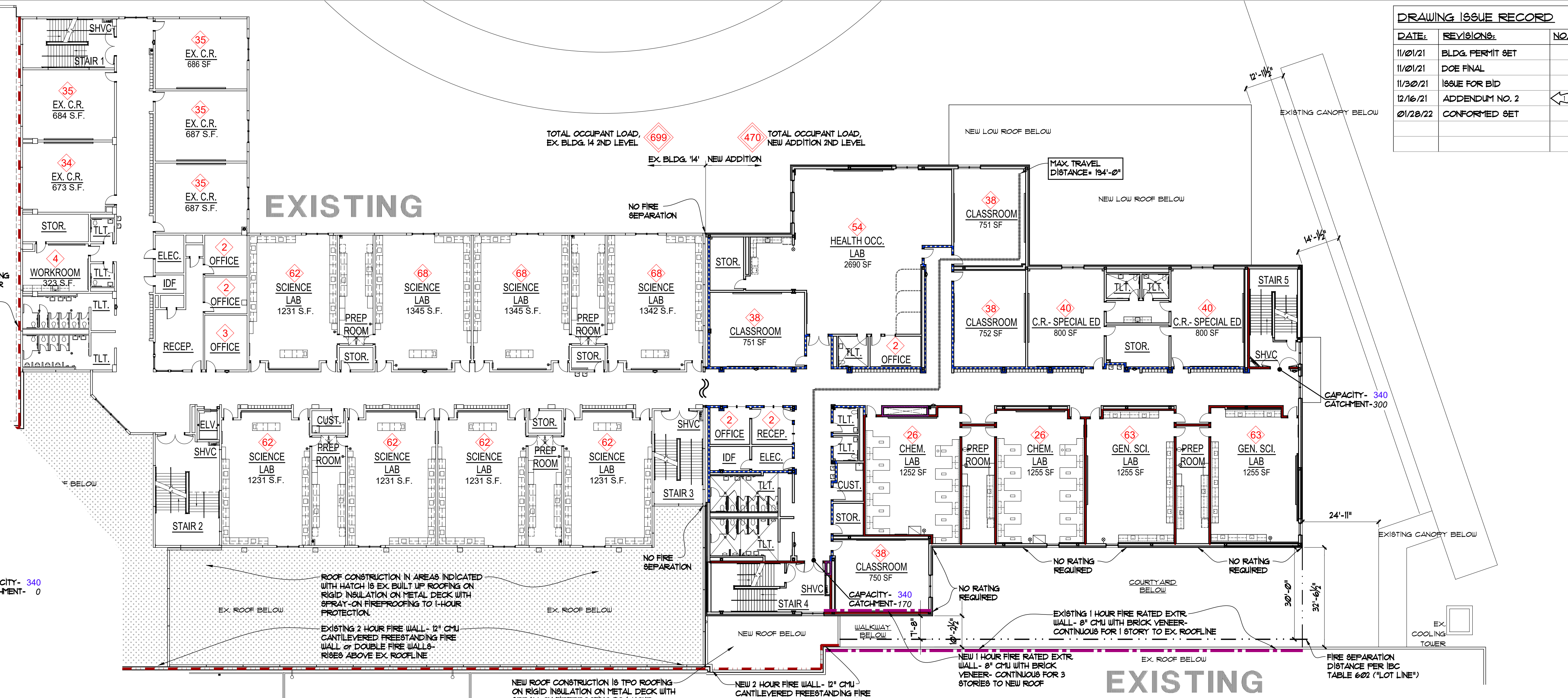
TOTAL OCCUPANT LOAD FOR NEW EAST ADDITION = 1167 OCCUPANTS

DATE:	REVISIONS:	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	



EXISTING

**3 THIRD LEVEL ADDITION- LIFE SAFETY PLAN**  
1" = 40'



EXISTING

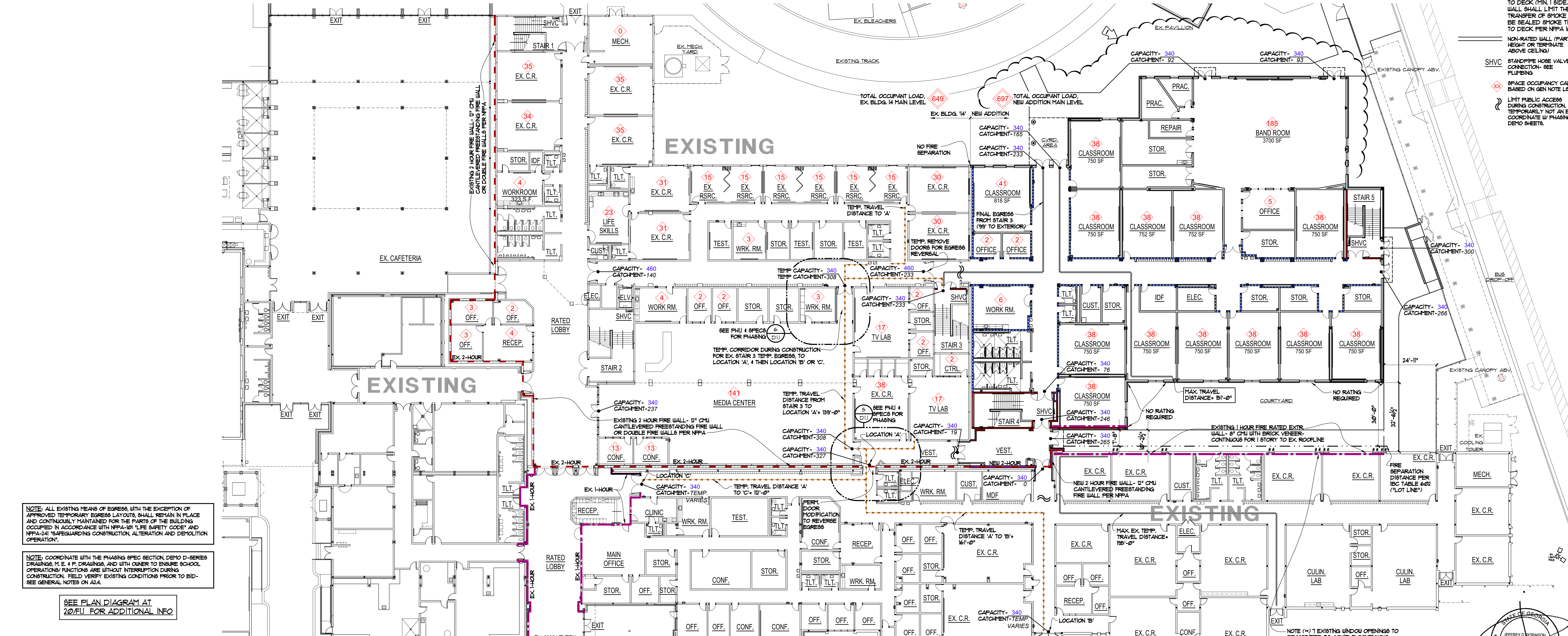
EXISTING

**2 SECOND LEVEL ADDITION- LIFE SAFETY PLAN**  
1" = 20'

SEE PLAN DIAGRAM AT 20/F.I. FOR ADDITIONAL INFO

**LIFE SAFETY LEGEND**

- 1 HOUR RATED WALL - SEALED TO DECK
- 2 HOUR RATED WALL - SEALED TO DECK
- SMOKE WALL - EXTENDED TO DECK (MIN. 1 SIDE). WALL SHALL LIMIT THE TRANSFER OF SMOKE & BE SEALED SMOKE TIGHT TO DECK PER NFPA 101.
- NON-RATED WALL (PARTIAL HEIGHT OR TERMINATE ABOVE CEILING).
- SHVC STANDPIPE HOSE VALVE CONNECTION - SEE PLUMBING
- SPACE OCCUPANCY CALC BASED ON GEN NOTE L51
- LIMIT PUBLIC ACCESS DURING CONSTRUCTION. TEMPORARILY NOT AN EXIT. COORDINATE W/ PHASING & DEMO SHEETS.



EXISTING

EXISTING

**1 MAIN LEVEL ADDITION- LIFE SAFETY PLAN**  
1" = 20'

NOTE: ALL EXISTING MEANS OF EGRESS, WITH THE EXCEPTION OF APPROVED TEMPORARY EGRESS LAYOUTS, SHALL REMAIN IN PLACE AND CONTINUOUSLY MAINTAINED FOR THE PARTS OF THE BUILDING OCCUPIED IN ACCORDANCE WITH NFPA-101 "LIFE SAFETY CODE" AND NFPA-241 "SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATION".

NOTE: COORDINATE WITH THE PHASING SPEC SECTION, DEMO D-SERIES DRAWINGS, 1/2" & 1/4" DRAWINGS, AND WITH OTHER TO ENSURE SCHOOL OPERATIONS/ FUNCTIONS ARE WITHOUT INTERRUPTION DURING CONSTRUCTION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID-SEE GENERAL NOTES ON A44.

SEE PLAN DIAGRAM AT 20/F.I. FOR ADDITIONAL INFO

NOTE: (\*) 1 EXISTING WINDOW OPENINGS TO BE MODIFIED TO ACHIEVE CONTINUOUS 1-HOUR FIRE RATING. REPLACE EX. WINDOW W/ 60-MINUTE RATED ALU. WINDOW ASSEMBLY W/ FIRE RATED GLAZING. SEE A43 AND A82.

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE: MARCH 1, 2021

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

DESIGNER: JEFFREY G. ROBINSON

ARCHITECT: CUNNINGHAM, FOREHAND, MATTHEWS & MOORE

PROJECT NO.: 2011-001

DATE: MARCH 1, 2021

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

DESIGNER: JEFFREY G. ROBINSON

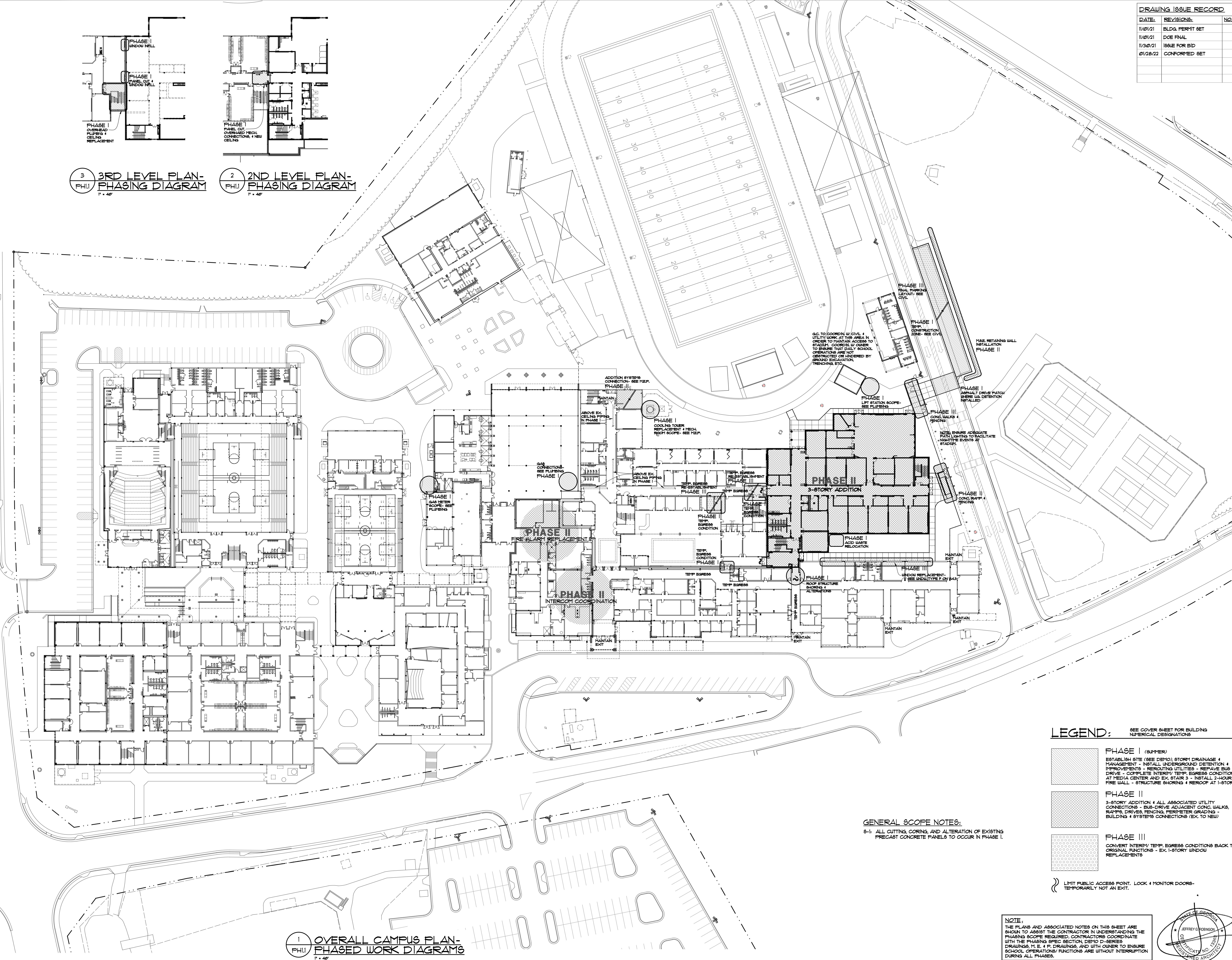
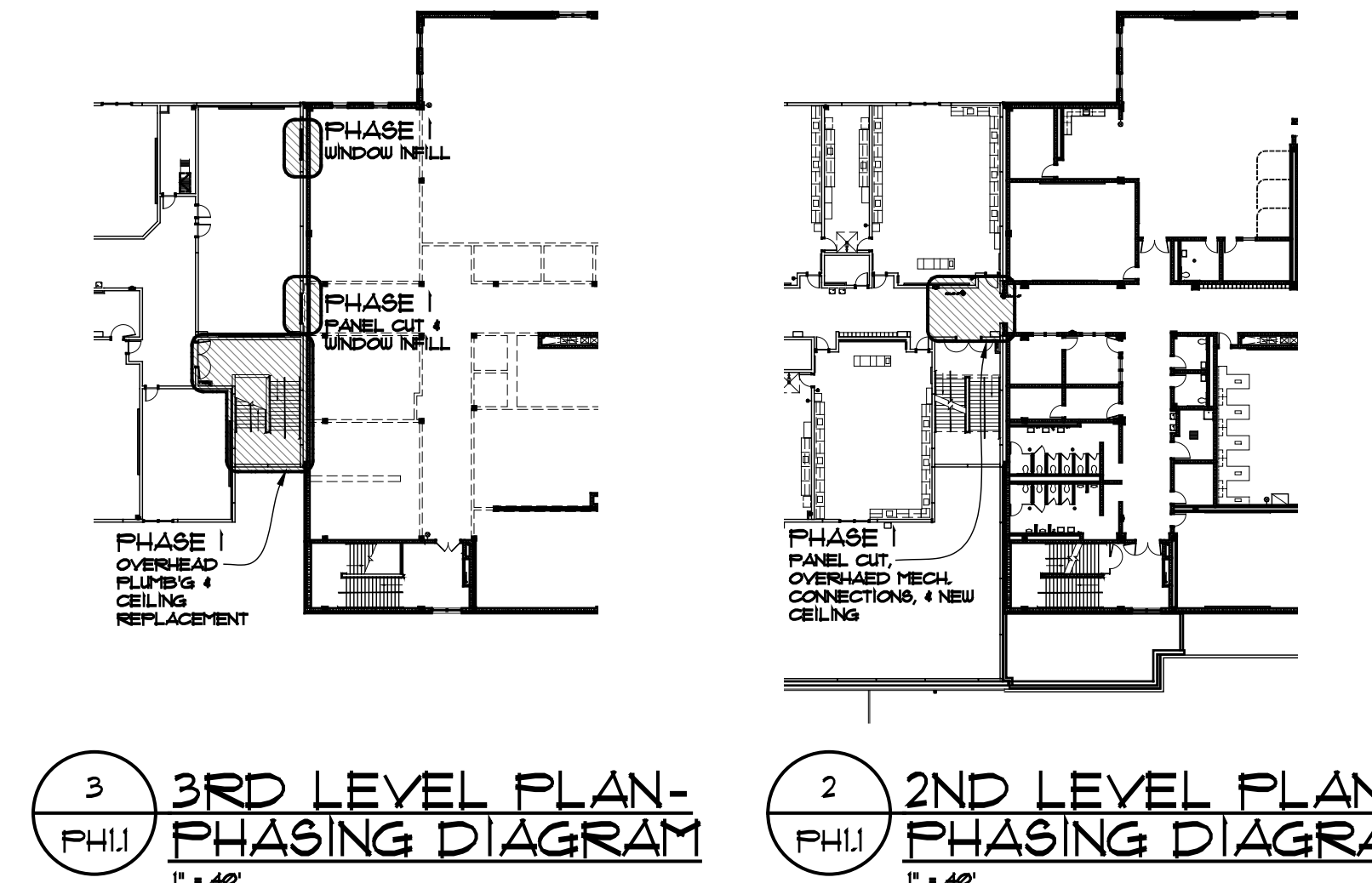
ARCHITECT: CUNNINGHAM, FOREHAND, MATTHEWS & MOORE

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	

FACILITY CODE 66T-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 DESIGNED BY: JRM, AP  
 CHECKED BY: JRM, PMT

**cunningham, forehand, matthews & moore**  
 architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152

**PH1.1**

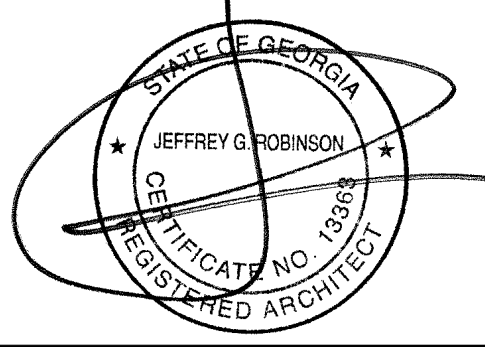


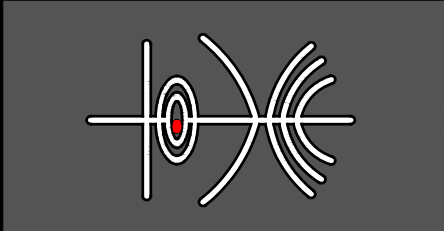
1 OVERALL CAMPUS PLAN-PHASED WORK DIAGRAMS  
1" = 40'

**GENERAL SCOPE NOTES:**  
 5-1: ALL CUTTING, CORING, AND ALTERATION OF EXISTING PRECAST CONCRETE PANELS TO OCCUR IN PHASE I.

- LEGEND:** SEE COVER SHEET FOR BUILDING NUMERICAL DESIGNATIONS
- PHASE I (SUMMER)**  
 ESTABLISH SITE (SEE DEMO) STORM DRAINAGE & MANAGEMENT - INSTALL UNDERGROUND DETENTION & IMPROVEMENTS - REROUTING UTILITIES - REPAVE BUS DRIVE - COMPLETE INTERIM TEMP. EGRESS CONDITIONS AT MEDIA CENTER AND EX. STAIR 3 - INSTALL 2-HOUR FIRE WALL - STRUCTURE SHORING & REEROOF AT 1-STORY
  - PHASE II**  
 3-STORY ADDITION & ALL ASSOCIATED UTILITY CONNECTIONS - BUS-DRIVE ADJACENT CONC. WALKS, RAMPS, DRIVES, FENCING, PERIMETER GRADING - BUILDING & SYSTEMS CONNECTIONS (EX. TO NEW)
  - PHASE III**  
 CONVERT INTERIM TEMP. EGRESS CONDITIONS BACK TO ORIGINAL FUNCTIONS - EX. 1-STORY UNDERGROUND REPLACEMENTS
- LIMIT PUBLIC ACCESS POINT. LOCK & MONITOR DOORS - TEMPORARILY NOT AN EXIT.

**NOTE:**  
 THE PLANS AND ASSOCIATED NOTES ON THIS SHEET ARE SHOWN TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE PHASING SCOPE REQUIRED. CONTRACTORS COORDINATE WITH THE PHASING SPEC SECTION, DEMO D-DRAWINGS, DRAWINGS, M.E. & P. DRAWINGS, AND WITH OWNER TO ENSURE SCHOOL OPERATIONS/FUNCTIONS ARE WITHOUT INTERRUPTION DURING ALL PHASES.





**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews**  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

**D1.1**

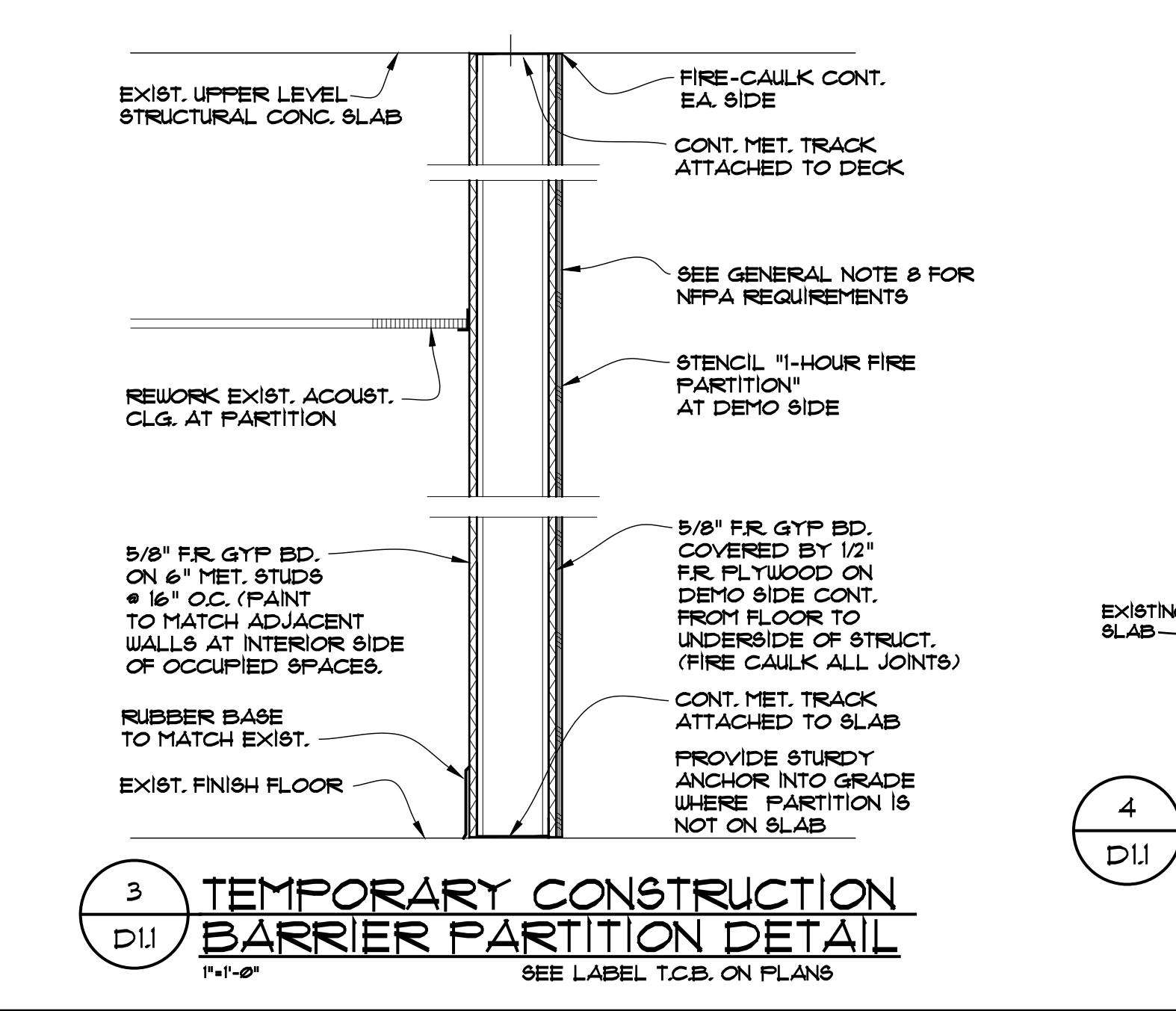
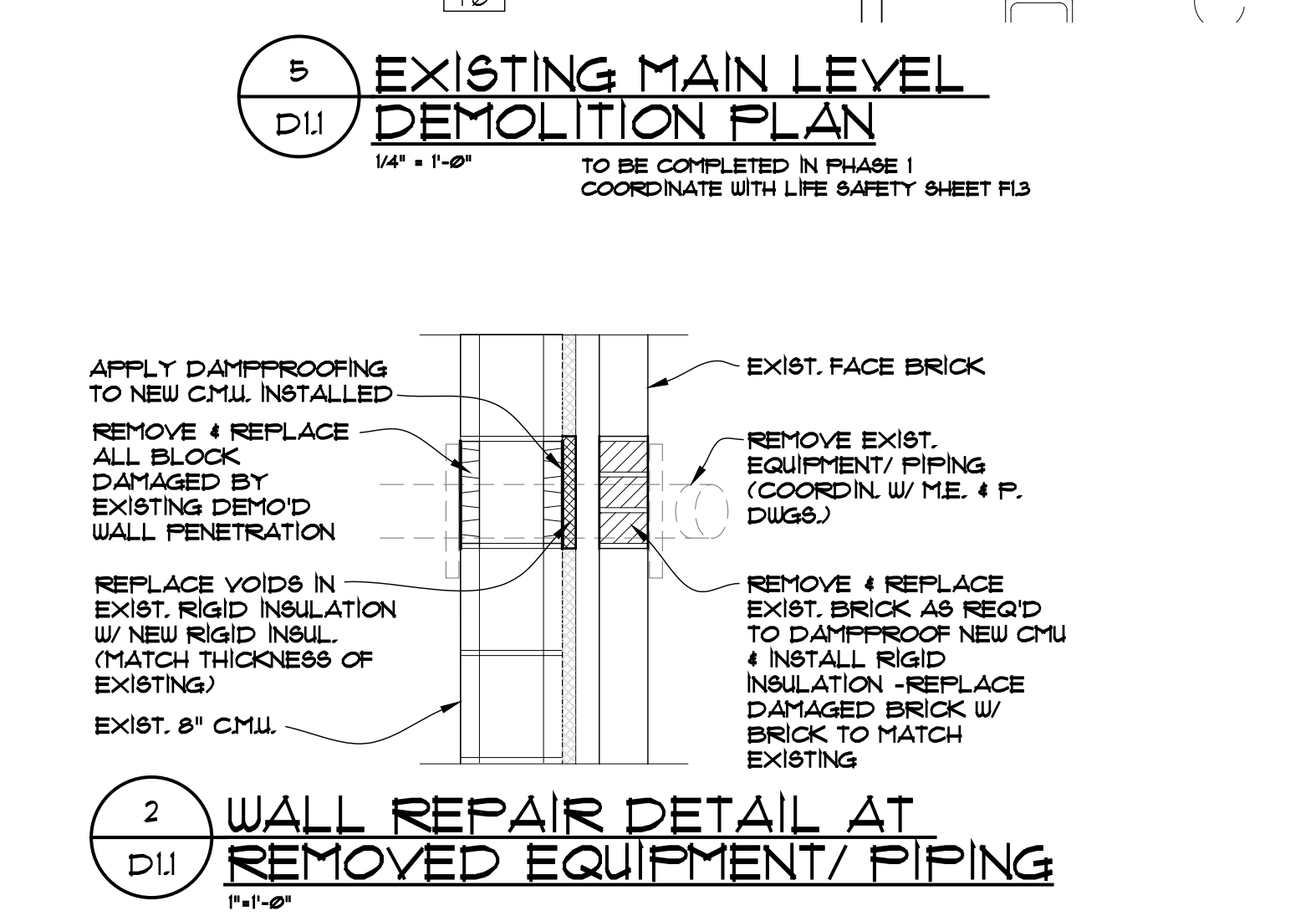
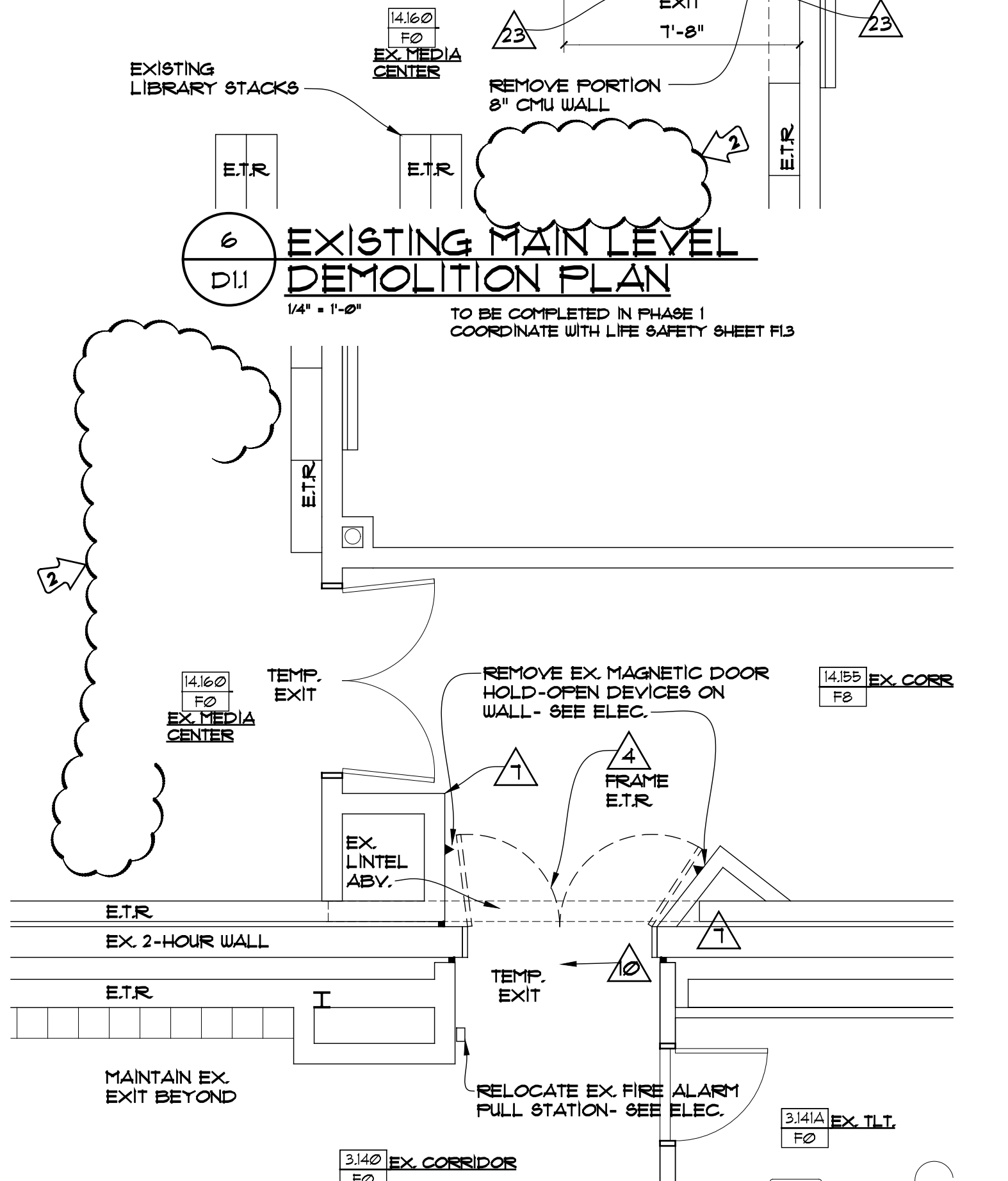
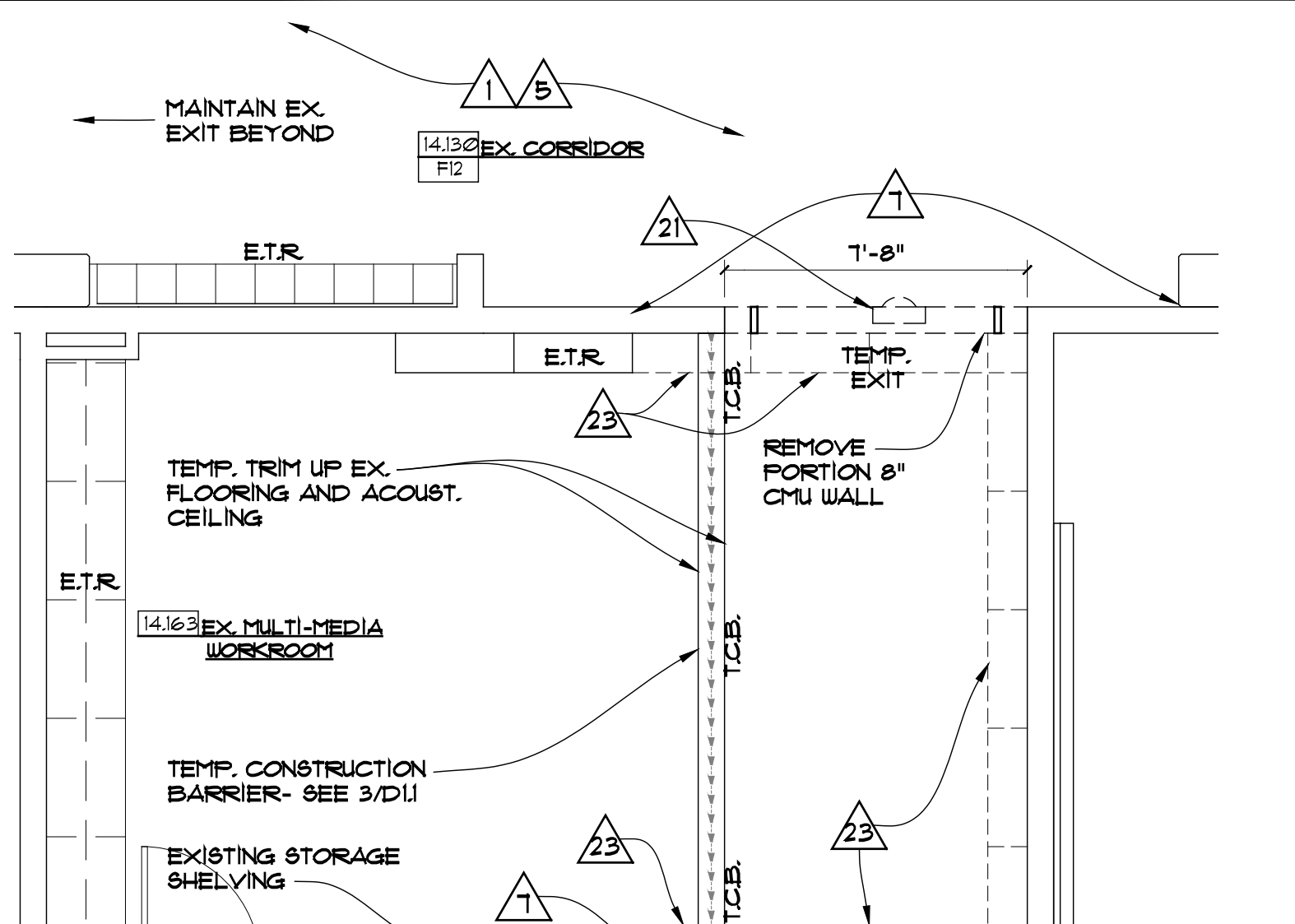
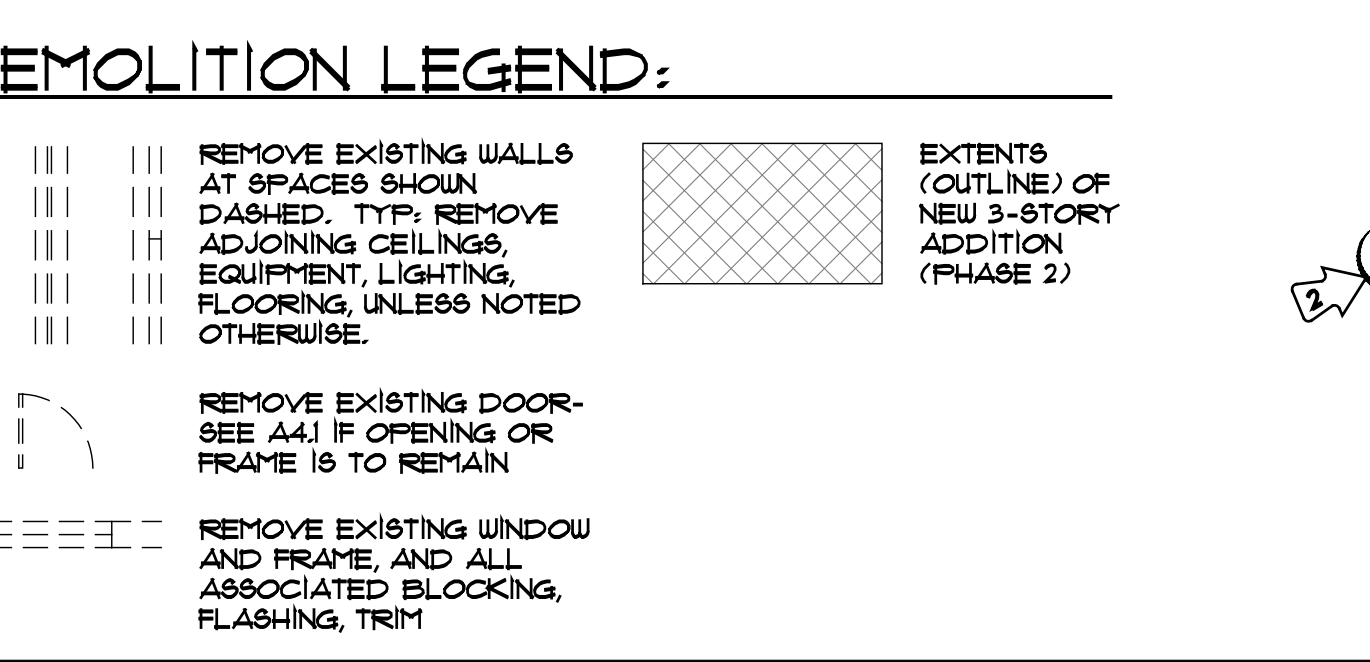
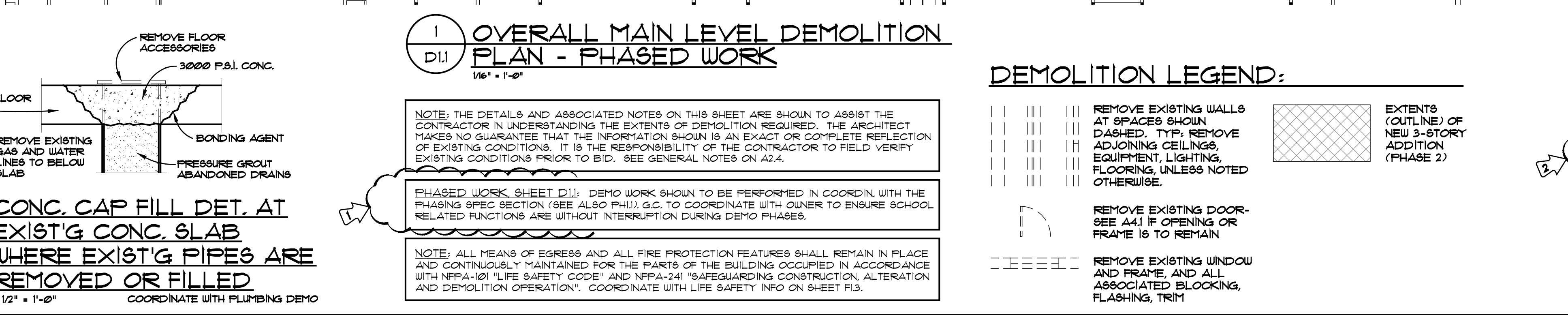
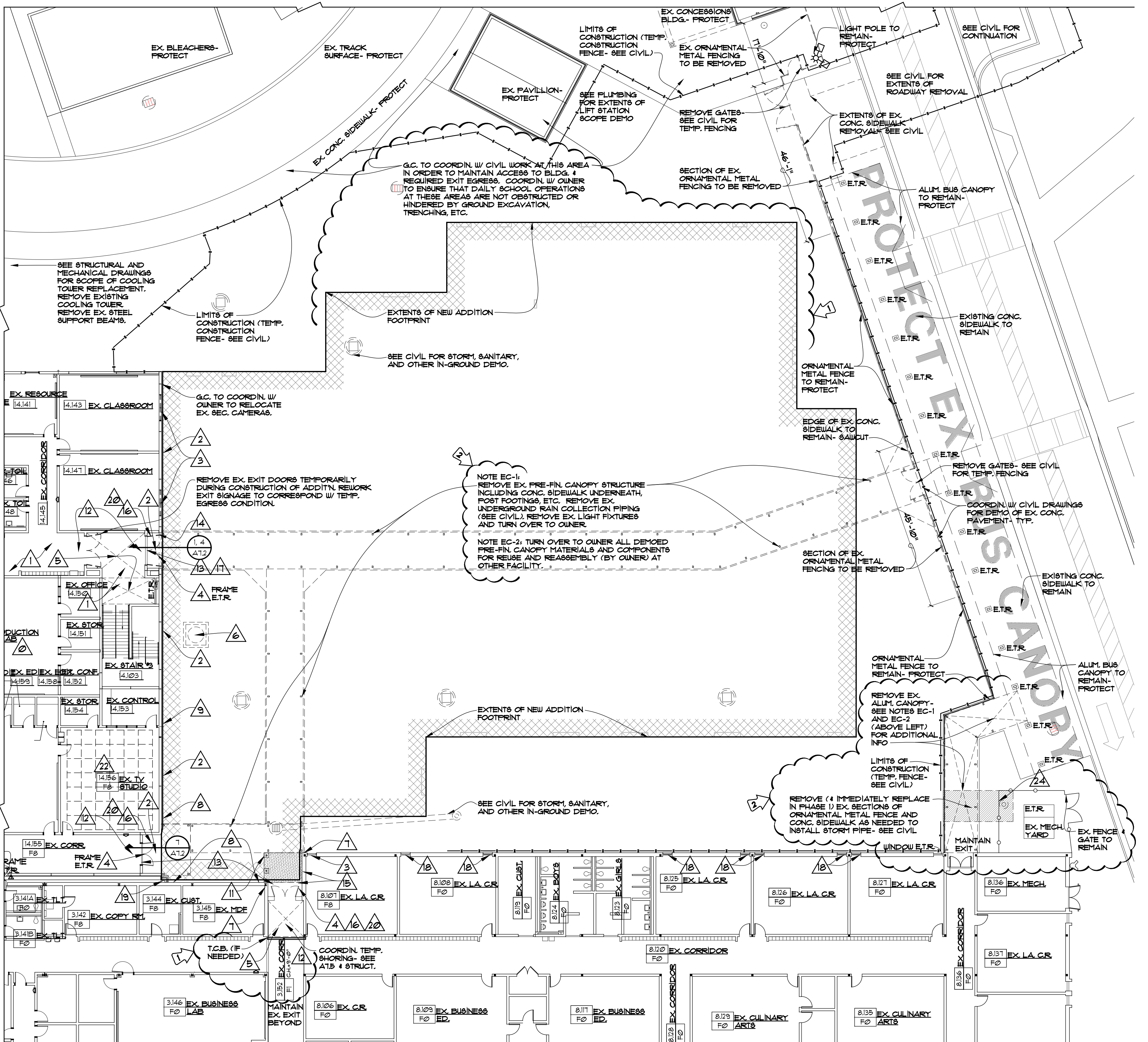
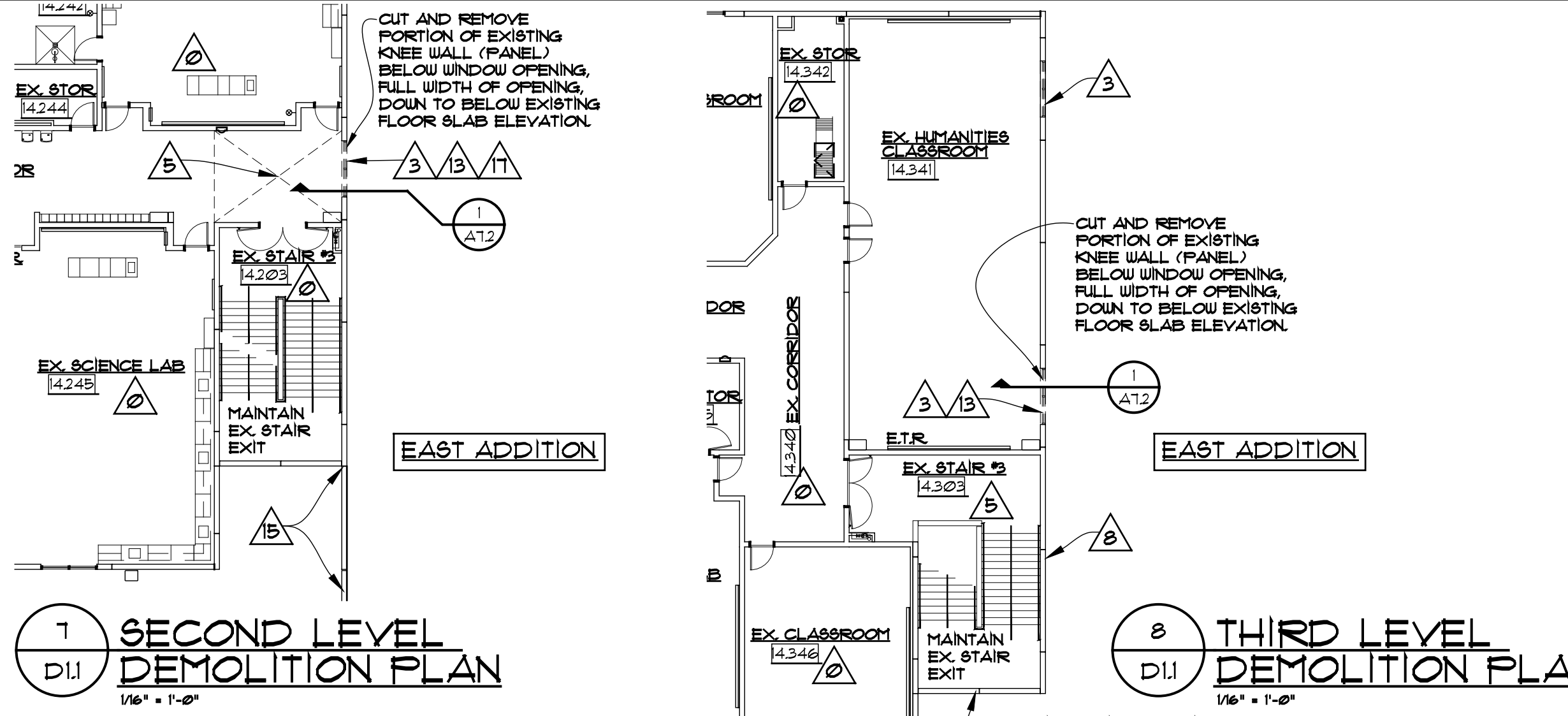
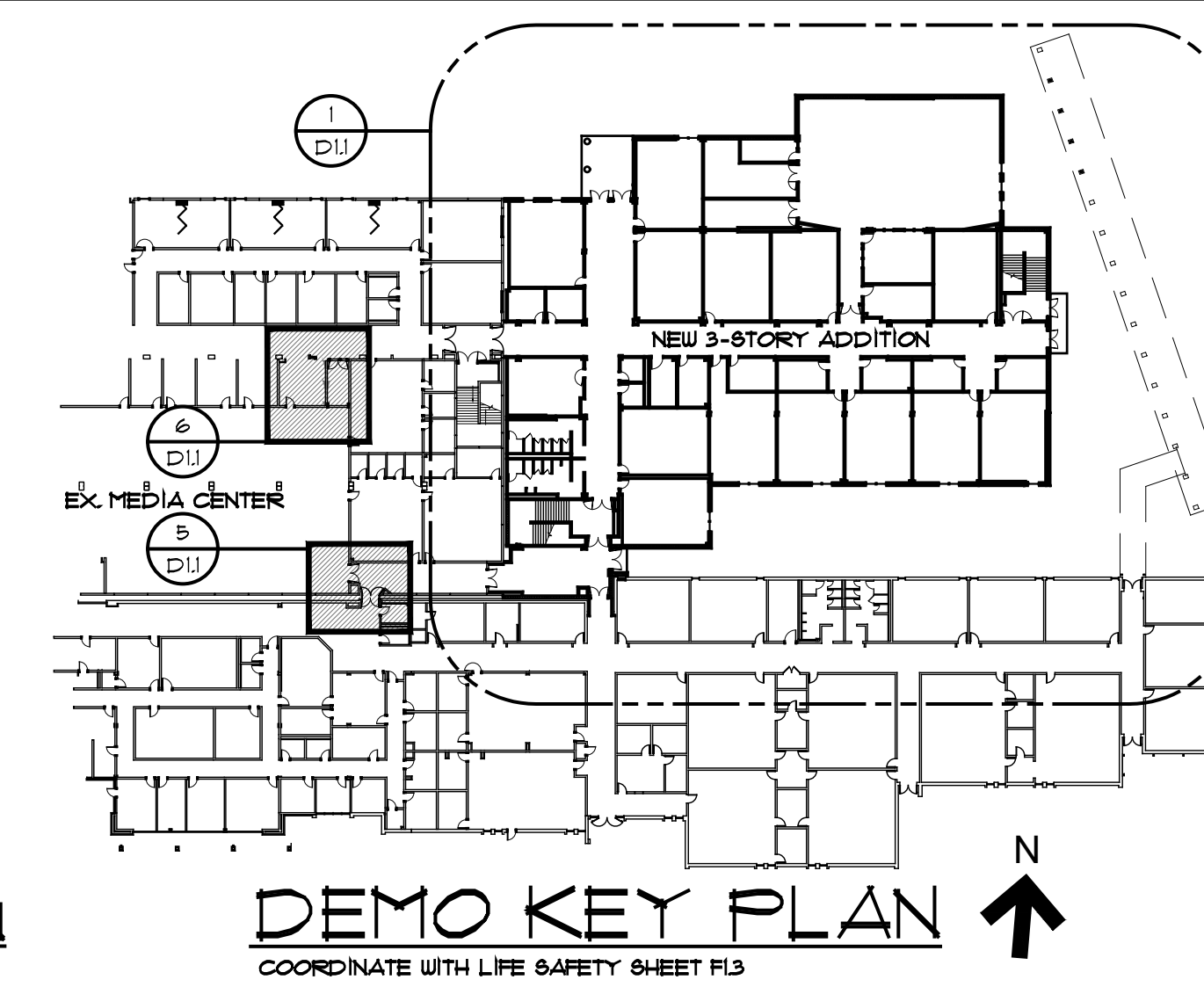
DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
12/21/21	ADDENDUM NO. 3	
01/28/22	CONFOITED SET	

### GENERAL DEMOLITION NOTES:

- THESE NOTES APPLY TO ALL DRAWINGS
- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE, PARTICULARLY DIMENSIONS AND CONDITIONS AFFECTING SHOP DRAWING SUBMITTALS.
  - BEFORE ANY WORK IS BEGUN IN THE EXISTING BUILDING, CONTRACTOR WILL CONDUCT A WALK THRU OF THE ENTIRE COMPLEX WITH THE OWNER AND ARCHITECT TO DETERMINE THE CONDITION OF THE EXISTING SPACES REQUIRING WORK UNDER THIS CONTRACT. CONDITIONS OF EACH SPACE PRIOR TO COMMENCEMENT OF WORK WILL BE NOTED.
  - WHERE EXISTING MATERIALS OR OBJECTS ARE REMOVED, RELOCATED OR MODIFIED, THE GEN. CONTRACTOR SHALL PATCH DAMAGED SURFACE FROM WHICH THE MATERIAL WAS REMOVED, RELOCATED OR MODIFIED TO MATCH ADJACENT MATERIAL OR FINISH. FOR EXPOSED PORTION OF EXISTING WALL AT INTERSECTION WITH DEMOLISHED WALL, REMOVE CUT ALL EXPOSED OR PROTRUDING REINFORCING AND TIES, AND PATCH BLOCK (TOOTH-IN IF APPLICABLE) AS NEEDED TO MATCH EXISTING GROUT LINES (STACKED PATTERN IF ADJ.) AND TEXTURE CONSISTENTLY.
  - IN AREAS TO BE RENOVATED, CONTRACTOR SHALL REMOVE ALL FURNISHINGS & EQUIPMENT NECESSARY TO BE MOVED TO CARRY OUT THE WORK. CONTRACTOR SHALL PLACE OR STORE FURNISHINGS & EQUIPMENT ON SITE, IN SPACES AS DIRECTED BY THE OWNER. UPON COMPLETION OF RENOVATION WORK, FURNISHINGS OR EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE REINSTALLED IN THE RENOVATED SPACES. THIS INCLUDES DISCONNECTION AND RECONNECTION OF ITEMS REQUIRING MECHANICAL, ELECTRICAL, OR PLUMBING FINISHES.
  - WHERE PORTIONS OF EXISTING FLOOR SLABS ARE REMOVED, RETREAT SOIL FOR TERMITE CONTROL, AND PATCH IN NEW VAPOR BARRIER PRIOR TO REPLACING SLABS. WHERE WALLS, ETC. ARE REMOVED, GRIND FLOOR SLAB AS NECESSARY FOR SMOOTH APPLICATION OF NEW FLOOR FINISH.
  - WHERE NEW DOORS WITH HOLLOW METAL FRAMES ARE INSTALLED AT EXISTING WALLS, REMOVE ADEQUATE BLOCK TO TOOTH-IN NEW BLOCK AT JAMBES. FIRST TWO CELLS FILLED WITH GROUT FULL HEIGHT TO SUPPORT NEW BLOCK AT DOOR HEAD. TOOTH ALL NEW BLOCK IN TO MATCH EXISTING.
  - WHERE EXISTING PLUMBING IS TO BE REMOVED, CAP PLUMBING IN WALL AND BELOW FLOOR (PATCH TO MATCH SURROUNDING SURFACES). COORDINATE REQUIREMENTS FOR FLOOR SLAB REMOVAL FOR PLUMBING REVISIONS WITH PLUMBING DRAWINGS.
  - TEMPORARY BARRIER PARTITIONS SHALL MEET THE REQUIREMENTS OF NFPA 241 (CURRENT EDITION) "SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS", CHAPTER 4, PARA. 4.3 TEMPORARY ENCLOSURES. SEE DETAIL 3/D11 ON PLANS THIS SHEET.
  - SEE CIVIL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
  - WHERE PLUMBING FIXTURES ARE SHOWN DASHED OR ARE SHOWN WITHIN DASHED SPACES OR CABINETS, REMOVE THOSE FIXTURES. CAP ALL PLUMBING LINES IN FLOOR OR WALLS AND PATCH SURFACE TO MATCH EXISTING. REFER TO DETAIL 4/D11 FOR CONCRETE CAP DETAIL FOR ABANDONED DRAIN LINES AT EXISTING SLAB.
  - AT EXISTING SPACES SHOWN DASHED REMOVE ALL MISCELLANEOUS FRAMING ELEMENTS USED TO SUPPORT SUSPENDED CEILING SYSTEMS (GAYLOR SYSTEMS, ETC.) CONTRACTOR SHALL REMOVE ALL EQUIPMENT, LIGHTING, OPERABLE WALLS, ETC.
  - PROTECT EXISTING 1-HR RATED SMOKE WALLS, UNO, WHERE WORK IS TO BE PERFORMED AT / WITHIN EXISTING 1-HR RATED SMOKE WALLS, NEW RATED BLOCK WORK SHALL BE "TOOTHED" TO MAINTAIN WALL RATING. NEW PORTIONS OF THE EXISTING 1-HR SMOKE WALLS SHALL BE RE-ALIGNED TO THE ROOF DECK ABOVE AS REQUIRED PER DETAILS 3/D11 AND 4/D11. SEE THIS SHEET 4 OVERALL FIRE RATING PLAN ON SHEET 41 FOR LOCATION OF EXISTING/ NEW 1-HR RATED SMOKE WALLS.
  - REMOVE ALL EXISTING ELECTRICAL SUPPLY NO LONGER REQUIRED. REMOVE ABANDONED WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX & CAP OFF UNLESS DIRECTED OTHERWISE BY ELECTRICAL DRAWINGS. SEE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
  - WHERE NEW WORK OCCURS ABOVE EXISTING CEILING TO REMAIN, PROTECT EXISTING CEILING GRID AND TILES, AND ANY OTHER ITEMS IN THE VICINITY OF THE WORK PERFORMED. CONTRACTOR SHALL REPLACE ITEMS DAMAGED IN THE PROCESS. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.

### DEMOLITION KEY NOTES:

- NO DEMOLITION REQUIRED AT THIS SPACE UNLESS SPECIFICALLY NOTED OTHERWISE ON DEMOLITION FLOOR PLANS. COORDIN. W/ PLUMBING, MECH. & ELEC. DRAWINGS.
- PROCELAIN TILE FLOOR PROTECTION: INSTALL 6" MIL POLYETHYLENE PLASTIC BARRIER OVER EXISTING PROCELAIN TILE FLOORING. COVER ENTIRE FLOOR AREA WITH 1/8" OSB SHEETS, FOLLOWING ALL OVERHEAD WORK. REMOVE OSB AND PLASTIC FLOOR PROTECTION.
- REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED WIRING. COORDIN. W/ ELECTRICAL.
- REMOVE EXISTING ALUMINUM STORE FRONT WINDOW ASSEMBLY AND ASSOCIATED FRAMES SHOWN DASHED AND IN WALLS INDICATED TO BE REMOVED. COORDIN. REFURBISH W/ OWNER.
- REMOVE EXISTING DOOR(S), COORDIN. WITH DOOR SCHEDULE. REMOVE FRAME IF IN WALL SHOWN DASHED INDICATED TO BE REMOVED. COORDIN. REFURBISH W/ OWNER.
- REMOVE EXISTING CEILING GRID, (COORDIN. W/ FINISH SCHED. & NOTES, & PHASING INFO). COORDIN. W/ ELECTRICAL FOR LIGHT FIXTURE SCOPE.
- REMOVE EXISTING ACID WASTE TANK & DILUTION BASIN, AND ASSOCIATED PIPING. COORDIN. W/ PLUMBING AND CIVIL FOR RELOCATION SCOPE.
- EXISTING BUILDING STRUCTURE TO REMAIN. CONTRACTOR SHALL USE CAUTION IN REMOVING WALLS NEW LINES OF EXISTING WALLS, COULD BE TO REMAIN. SEE STRUCTURAL DRAWINGS FOR FRAMING DETAILS WHERE PORTIONS OF EXISTING WALLS ARE TO BE REMOVED.
- EX. DOWNSPOUT OR OVERFLOW NOZZLE TO BE REMOVED OR REPLACED - SEE PLUMBING. COLLECT EXISTING STORM PIPING W/ NEW TO BE ROUTED AWAY FROM NEW WORK & DISCHARGE AWAY FROM BLDGS. (SEE 2/D11). COORDIN. TEMP. ROUTING IF APPLICABLE.
- REMOVE EXISTING WALL HYDRANT AND ASSOCIATED PIPING. COORDIN. W/ PLUMBING.
- REMOVE EXISTING EXIT LIGHT FIXTURE AND ASSOCIATED WIRING. COORDIN. W/ ELECTRICAL.
- SHADED AREA DENOTES SCOPE OF SELECTIVE DEMO IN PHASE I; REMOVE COVERED PORCH STRUCTURE, INCLUDING ROOF, STEEL FRAMING (TRUSSES), ALL EXISTING BRICK & CMU COLUMN WRAPS, STEEL COLUMNS, & ALL FOUNDATIONS - COORDIN. W/ STRUCT. & ME.P., & PHASING.
- REMOVE EXISTING EXIT SIGNAGE TO CORRESPOND W/ TEMP. EGRESS CONSTRUCTION MARK OF EXISTING EXIT SIGN UNTIL TEMPORARY EXIT CONDITION IS NO LONGER REQUIRED.
- CONNECTION TO EXISTING CONC. SLAB. COORDINATE SLAB FINISHED FLOOR ELEVATION.
- G.C. COORDINATE W/ OWNER FOR REMOVAL OF AUDIO-VISIO PHONE ENTRY SYSTEM. COORDINATE RELOCATION - SEE DOOR SCHEDULE AND NOTES ON 421.
- REMOVE EXISTING PORTION OF BUILT-UP ROOFING AND FLASHING TO ACCOMMODATE NEW CONSTRUCTION. PATCH ROOFING TO MATCH ADJACENT EXISTING ROOFING. PROVIDE TEMP. MEASURES TO INSURE A WATER-TIGHT CONDITION FOR EXISTING OCCUPIED SPACES.
- G.C. TO TEMP. SECURE EX. DOOR AS NEEDED TO PROHIBIT ACCESS FROM UNAUTHORIZED PERSONS DURING WORK. G.C. HAS OPTION OF USING TEMP. CONSTRUCTION BARRIER (SEE 3/D11). TEMP. REMOVE EXIT SIGNAGE TO CORRESPOND W/ TEMP. EXIT CONDITION IF REQUIRED.
- NEW HVAC AND PLUMBING CONNECTIONS THRU EXISTING PRECAST CONCRETE PANEL ABOVE AT EXISTING WALL. COORDINATE OPENING & LOCATION WITH MECH. PLUMBING DRAWINGS.
- REMOVE EXISTING ALUMINUM STORE FRONT WINDOW ASSEMBLY AND ASSOCIATED FRAMES. PROTECT EXISTING TO REMAIN BRICK ROULOCK BILL. COORDIN. REFURBISH W/ OWNER.
- REMOVE EXISTING PORTION OF 8" CMU AND BRICK VENEER CORNER (1-STORY) THAT CREATES EXISTING EXPANSION JOINT TERMINATION FOR EXISTING 2-HOUR FIRE WALL. REMOVE ASSOCIATED FOUNDATION SEGMENT, AND ABOVE ROOF FLASHING, COPING, AND METAL PANELS. SEE 421. 12" CMU (2-HOUR) FIRE WALL TO ALIGN WITH EXISTING AND EXTEND PER PLANS.
- REMOVE EXISTING PORTION OF CONCRETE SIDEWALK SLAB THAT EXTENDS INTO RECESSED DOOR NICHE. SEE KEY NOTE 13 (ABOVE) FOR FIELD VERIFICATION FOR FUTURE SLAB.
- REMOVE EXISTING FIRE EXTINGUISHER CABINET ASSEMBLY AND ASSOCIATED COMPONENTS SHOWN IN WALLS INDICATED TO BE REMOVED. COORDIN. REFURBISH (TURN OVER) W/ OWNER.
- COORDIN. OVERHEAD WORK WITH EXISTING PIPE SUPPORT GRID AT CEILING. PROTECT STUDIO LIGHTING. REPLACE CEILING ASSEMBLY TO ORIGINAL CONDITION ONCE WORK IS COMPLETE.
- REMOVE EXISTING WALL SHELVING TEMPORARILY. PROTECT AND STORE FOR REINSTALLATION ONCE INTERIM EGRESS IS CONCLUDED. COORDIN. W/ OWNER.
- REMOVE (AND IMMEDIATELY REPLACE IN PHASE I) SECTION OF 6" HGT. CHAIN-LINK FENCE & BARBED WIRE, AS REQUIRED TO REPLACE STORM PIPES & EXISTING PLUMBING TRENCHING TO MATCH EXISTING. INCLUDING VINYL PRIVACY SLATS.



NOTE: THE DETAILS AND ASSOCIATED NOTES ON THIS SHEET ARE SHOWN TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE EXTENTS OF DEMOLITION REQUIRED. THE ARCHITECT MAKES NO GUARANTEE THAT THE INFORMATION SHOWN IS AN EXACT OR COMPLETE REFLECTION OF EXISTING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. SEE GENERAL NOTES ON 42-4.

PHASED WORK SHEET D11: DEMO WORK SHOWN TO BE PERFORMED IN COORDIN. WITH THE PHASING SPEC SECTION (SEE ALSO PH1). G.C. TO COORDINATE WITH OWNER TO ENSURE SCHOOL RELATED FUNCTIONS ARE WITHOUT INTERRUPTION DURING DEMO PHASES.

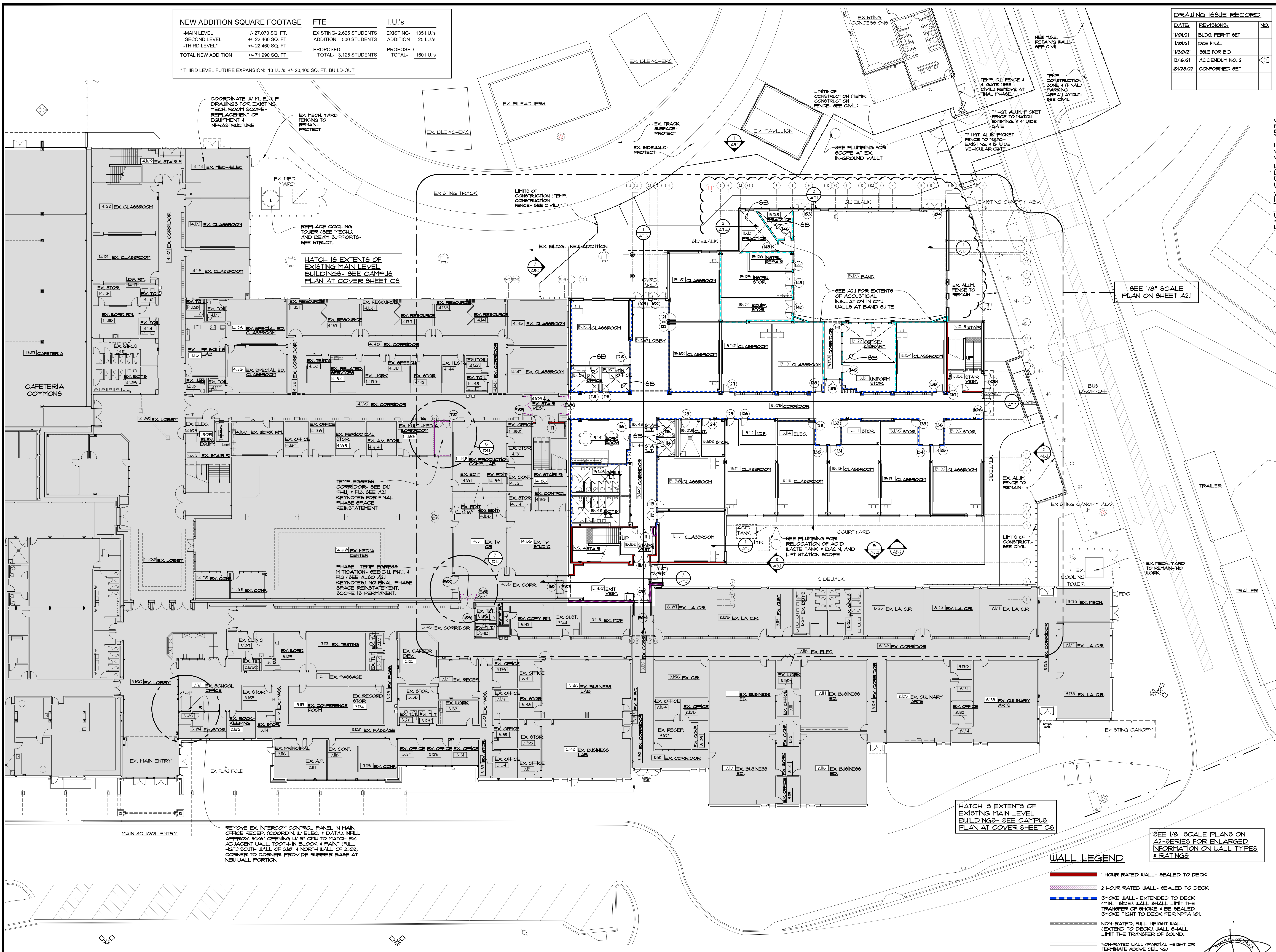
NOTE: ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES SHALL REMAIN IN PLACE AND CONTINUOUSLY MAINTAINED FOR THE PARTS OF THE BUILDING OCCUPIED IN ACCORDANCE WITH NFPA-101 "LIFE SAFETY CODE" AND NFPA-241 "SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS". COORDINATE WITH LIFE SAFETY INFO ON SHEET #13.



NEW ADDITION SQUARE FOOTAGE		FTE	I.U.'s
MAIN LEVEL	+/- 27,070 SQ. FT.	EXISTING- 2,625 STUDENTS	EXISTING- 135 I.U.'s
SECOND LEVEL	+/- 22,480 SQ. FT.	ADDITION- 500 STUDENTS	ADDITION- 25 I.U.'s
THIRD LEVEL	+/- 22,480 SQ. FT.	PROPOSED	PROPOSED
TOTAL NEW ADDITION	+/- 71,990 SQ. FT.	TOTAL- 3,125 STUDENTS	TOTAL- 160 I.U.'s

\* THIRD LEVEL FUTURE EXPANSION: 131 I.U.'s, +/- 20,400 SQ. FT. BUILD-OUT

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	



**NORTH GUINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GUINNETT COUNTY BOARD OF EDUCATION  
 GUINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

FACILITY CODE 667-4556

DATE: MARCH 1, 2022  
 DESIGNED BY: JRM, AP  
 DRAWN BY: MMT, AP  
 CHECKED BY: JRM, PMT

A1.1

**WALL LEGEND**

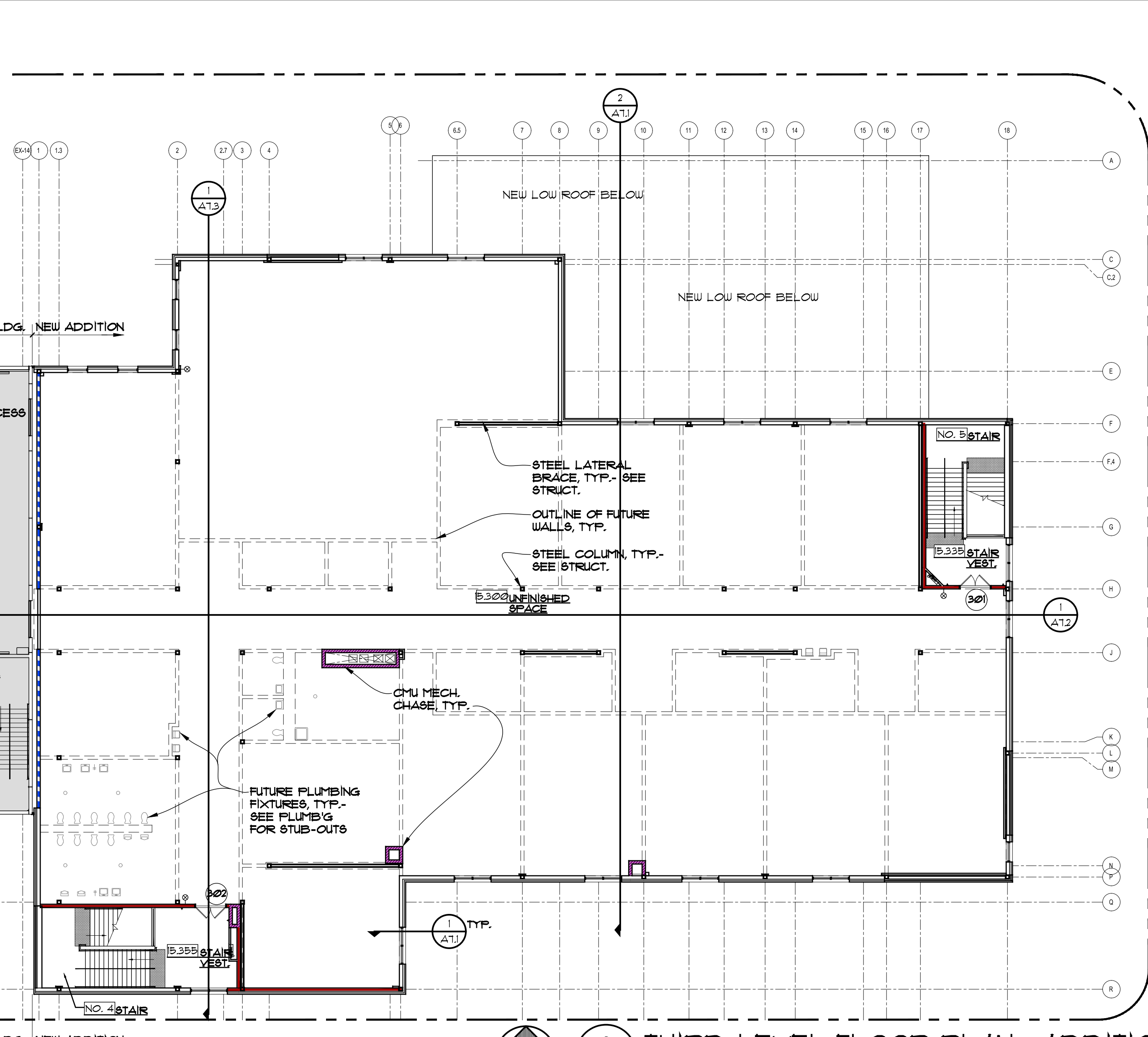
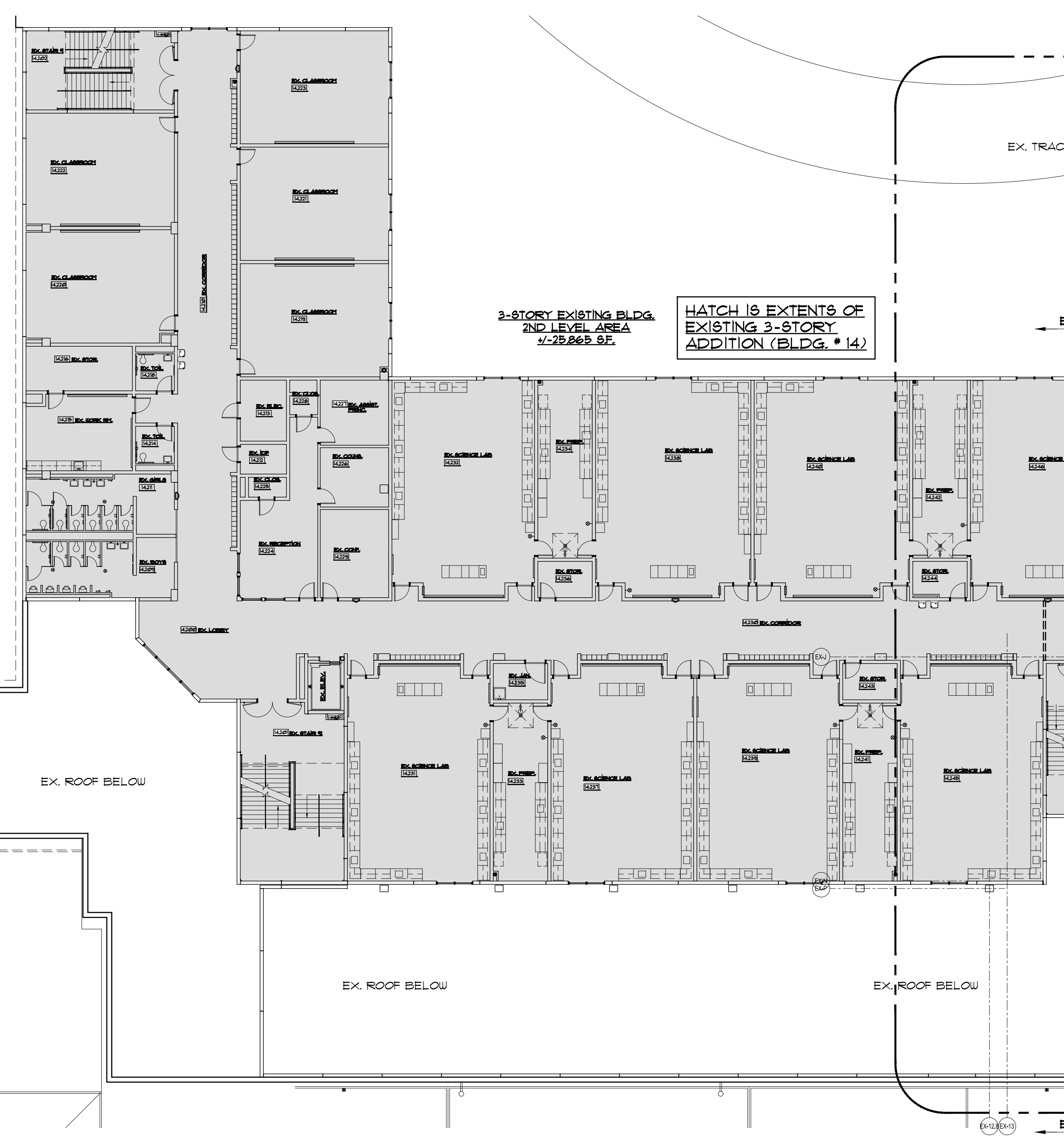
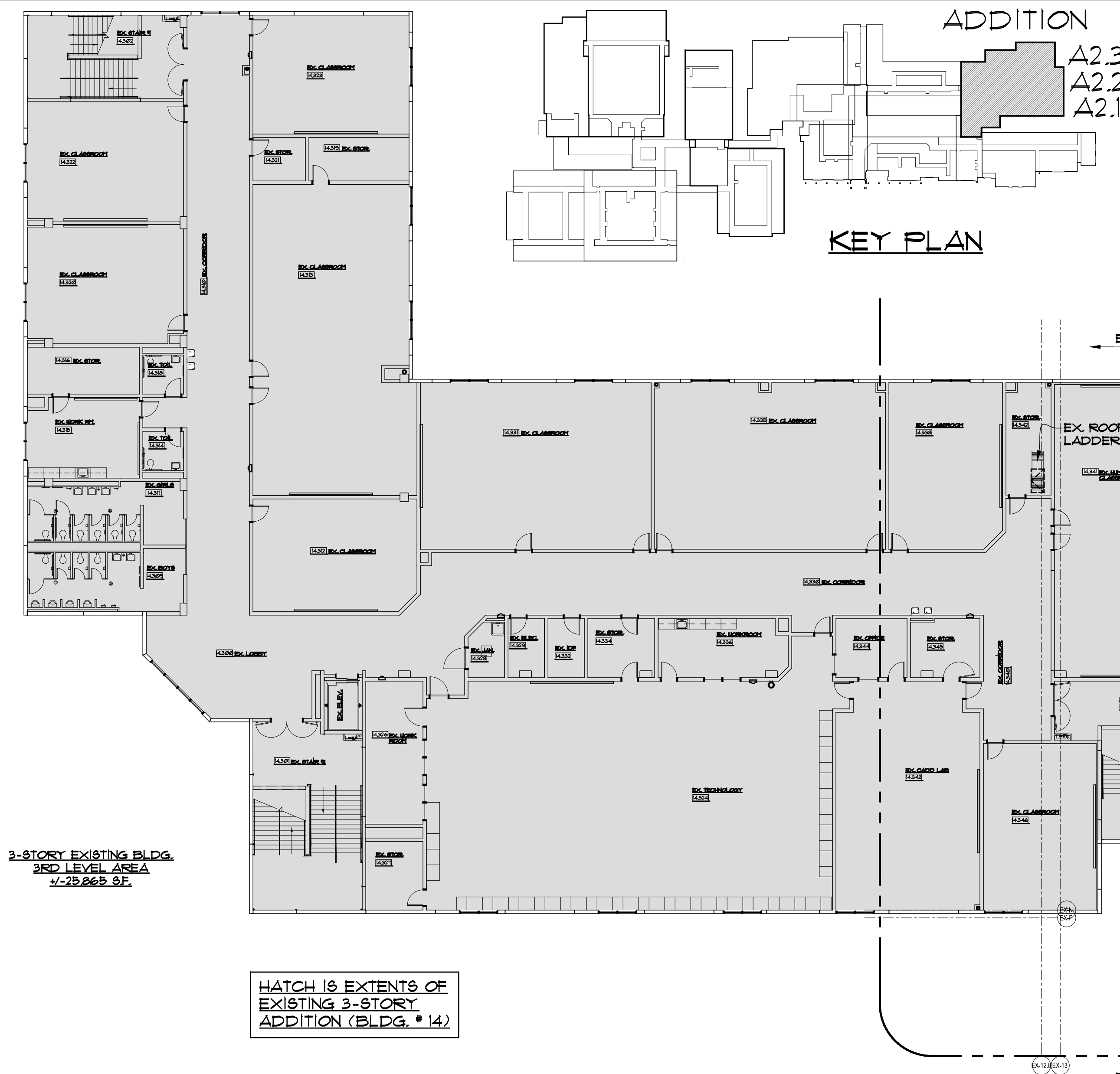
- 1 HOUR RATED WALL - SEALED TO DECK
- 2 HOUR RATED WALL - SEALED TO DECK
- SMOKE WALL - EXTENDED TO DECK (MIN. 1 SIDE). WALL SHALL LIMIT THE TRANSFER OF SMOKE & BE SEALED SMOKE TIGHT TO DECK PER NFPA 101.
- NON-RATED, FULL HEIGHT WALL (EXTEND TO DECK). WALL SHALL LIMIT THE TRANSFER OF SOUND.
- NON-RATED WALL (PARTIAL HEIGHT OR TERMINATE ABOVE CEILING)
- ACOUSTICAL FILLED-CELL WALL (FULL HEIGHT, EXTEND TO DECK)
- PROVIDE SOUND BATT INSULATION ABOVE CEILING

NORTH

1  
A1.1  
1/8" = 1'-0"

**MAIN LEVEL FLOOR PLAN- ADDITION AND ADJACENT EXISTING BUILDINGS**

DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	

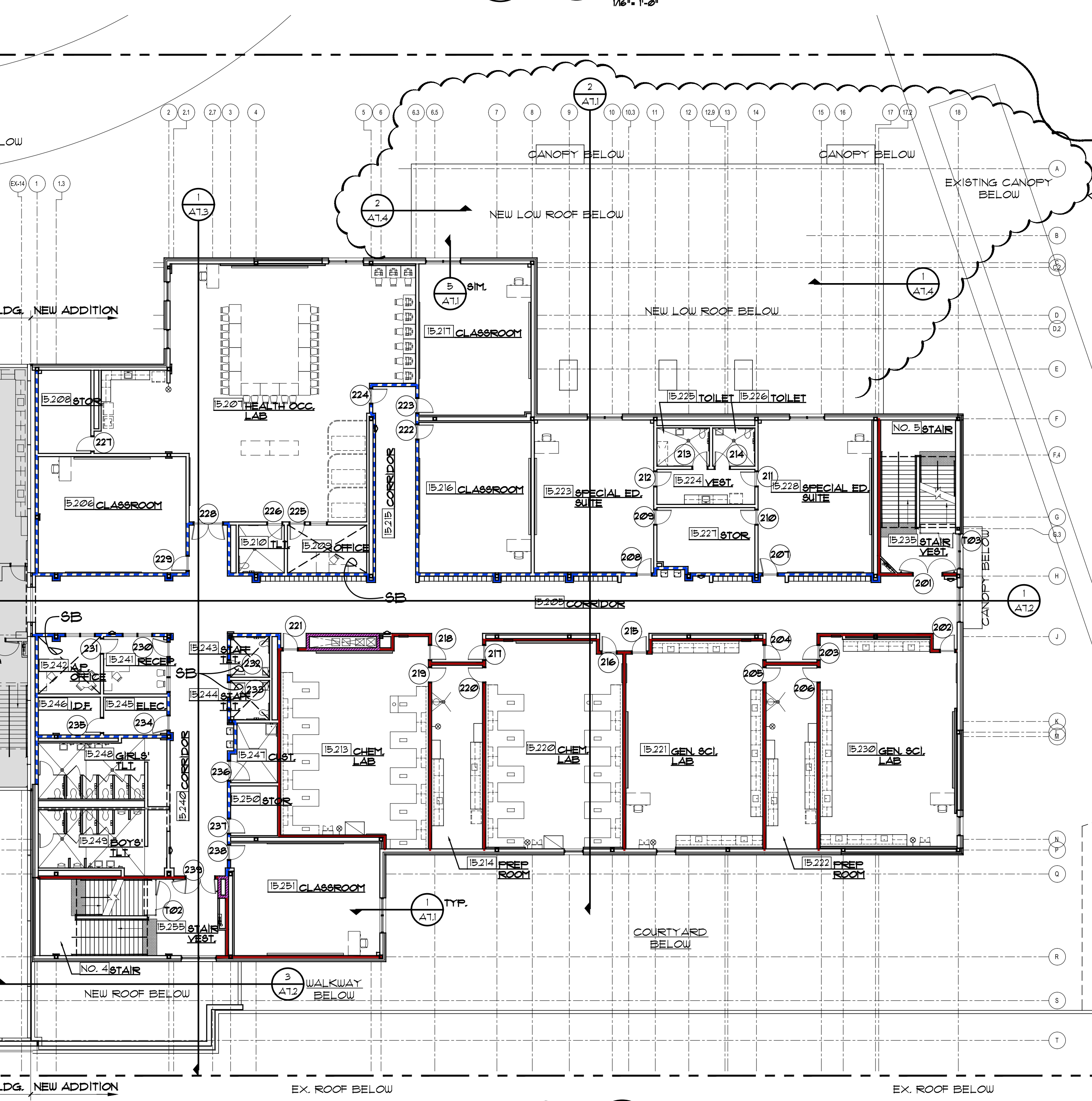
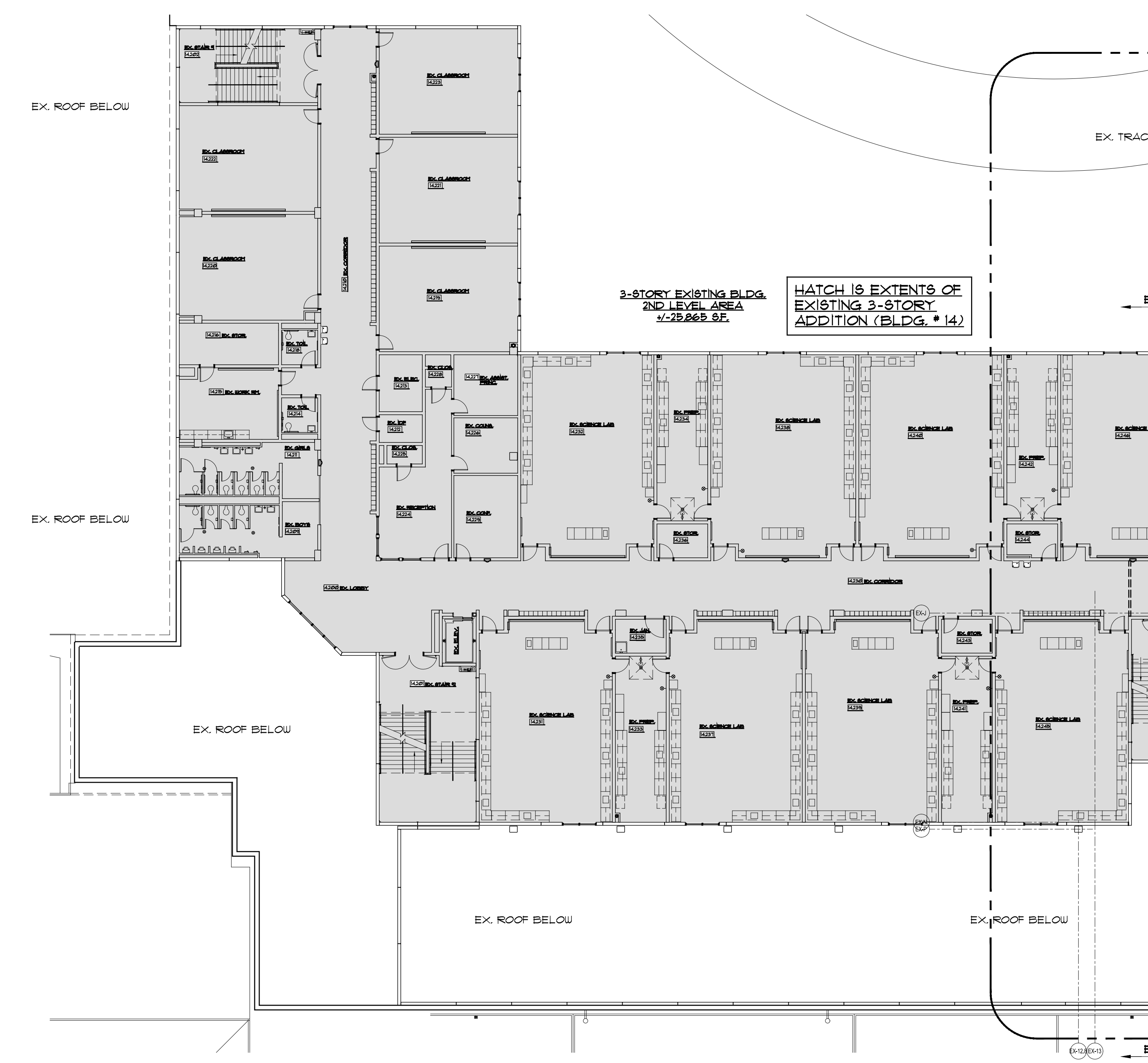


**WALL LEGEND**

- 1 HOUR RATED WALL - SEALED TO DECK
- 2 HOUR RATED WALL - SEALED TO DECK
- SMOKE WALL - EXTENDED TO DECK (MIN. 1 SIDE). WALL SHALL LIMIT THE TRANSFER OF SMOKE & BE SEALED SMOKE TIGHT TO DECK PER NFPA 101.
- NON-RATED FULL HEIGHT WALL (EXTEND TO DECK). WALL SHALL LIMIT THE TRANSFER OF SOUND.
- NON-RATED WALL (PARTIAL HEIGHT OR TERMINATE ABOVE CEILING)
- ACOUSTICAL FILLED-CELL WALL (FULL HEIGHT, EXTEND TO DECK)
- PROVIDE SOUND BATT INSULATION ABOVE CEILING

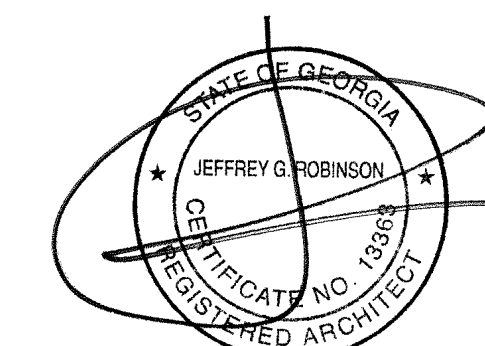
SEE 1/8" SCALE PLANS ON A2-SERIES FOR ENLARGED INFORMATION ON WALL TYPES & RATINGS

**2 THIRD LEVEL FLOOR PLAN- ADDITION AND ADJACENT EXISTING BUILDINGS**  
1/8" = 1'-0"



**1 SECOND LEVEL FLOOR PLAN- ADDITION AND ADJACENT EXISTING BUILDINGS**  
1/8" = 1'-0"

SEE 1/8" SCALE PLAN ON SHEET A22



**cunningham forhandmatthewsmoore**  
 FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 DESIGNED BY: MATT AP  
 CHECKED BY: JR. HMT  
 CUNNINGHAM, FORHAND, MATTHEWS & MOORE, ARCHITECTS, INC. - 2011 MANCHESTER STREET, N.E. - ATLANTA, GEORGIA 30324 - PHONE (404) 873-2152  
**A1.2**

LEGEND

- BRICK VENEER W/ CONC. BLOCK & 2"X2" RIGID INSULATION
- CONC. BLOCK
- CONCRETE PAVING
- C.P. CONCRETE (RETAINING WALL)
- 2 HOUR RATED WALL - SEALED TO DECK (2 HOUR FIRE WALL IF APPLIC.)
- 1 HOUR RATED WALL - SEALED TO DECK
- SMOKE WALL - EXTENDED TO DECK (MIN. 18" SIDE WALL LIMIT THE TRANSFER OF SMOKE SEAL SMOKE TIGHT TO DECK PER NFPA 92)
- ACQUST. FILLED CELL WALL - EXTEND TO DECK
- METAL STUD & GYPSUM BOARD WALL
- NON-RATED, EXTENDED WALL TO STRUCTURE FOR LIFTING LOAD TRANSFER, OR FOR PRIVACY CONDITION
- AL. - ALUMINUM THRESHOLD
- AT.S. - ALUM. TRANSITION STRIP
- CB. - CATCH BASIN
- C.J. - CONTROL JOINT
- CH. - CEILING HEIGHT
- CT. - CERAMIC TILE
- CS. - CARPET STRIP
- D.S. - DOWN SPOUT
- D.G. - DOUBLE GLAZING
- D.B.N. - ROOF OVERFLOW NOZZLE
- ED.F. - ELEC. DRINKING FOUNTAIN
- EP. - ELECTRICAL PANEL
- FD. - FLOOR DRAIN
- G.C. - GOGGLE CABINET (N.C.)
- HR. - HANDRAIL
- H.H. - WATER HEATER
- MB. - MARKERBOARD
- ME.A. - MOP BASIN
- MD.H. - MAGNETIC DOOR HOLDER
- M.S. - MOP STRIP
- M.T. - MARBLE THRESHOLD
- N.C. - NOT IN CONTRACT
- P.A. - PROJECTION SCREEN
- P.T.D. - PAPER TOWEL DISPENSER
- RL. - RAIN LEADER
- T.B. - TACK BOARD
- T.B.B. - TELECOM/DATA BACKBOARD
- T.A. - TACK STRIP
- T.W.S. - TACTILE WARNING STRIP
- V.C. - VALVE CABINET (SEE PLUMBING)
- V.C.T. - VINYL COMPOSITION TILE
- W.C. - WATER CLOSET
- W.H. - WALL HYDRANT
- X.J. - EXPANSION JOINT
- F.E.C. - FIRE EXT. 4 CABINET
- F.E.C. - FIRE EXT. 4 BRACKET
- W.M. - WALL MOUNTED MAGNETIC DOOR HOLDER (M.D.H.)
- R.N. - ROOM NUMBER
- F.N. - FINISH NUMBER (SEE SHEET A2.4 FOR FINISH SCHEDULE & NOTES)

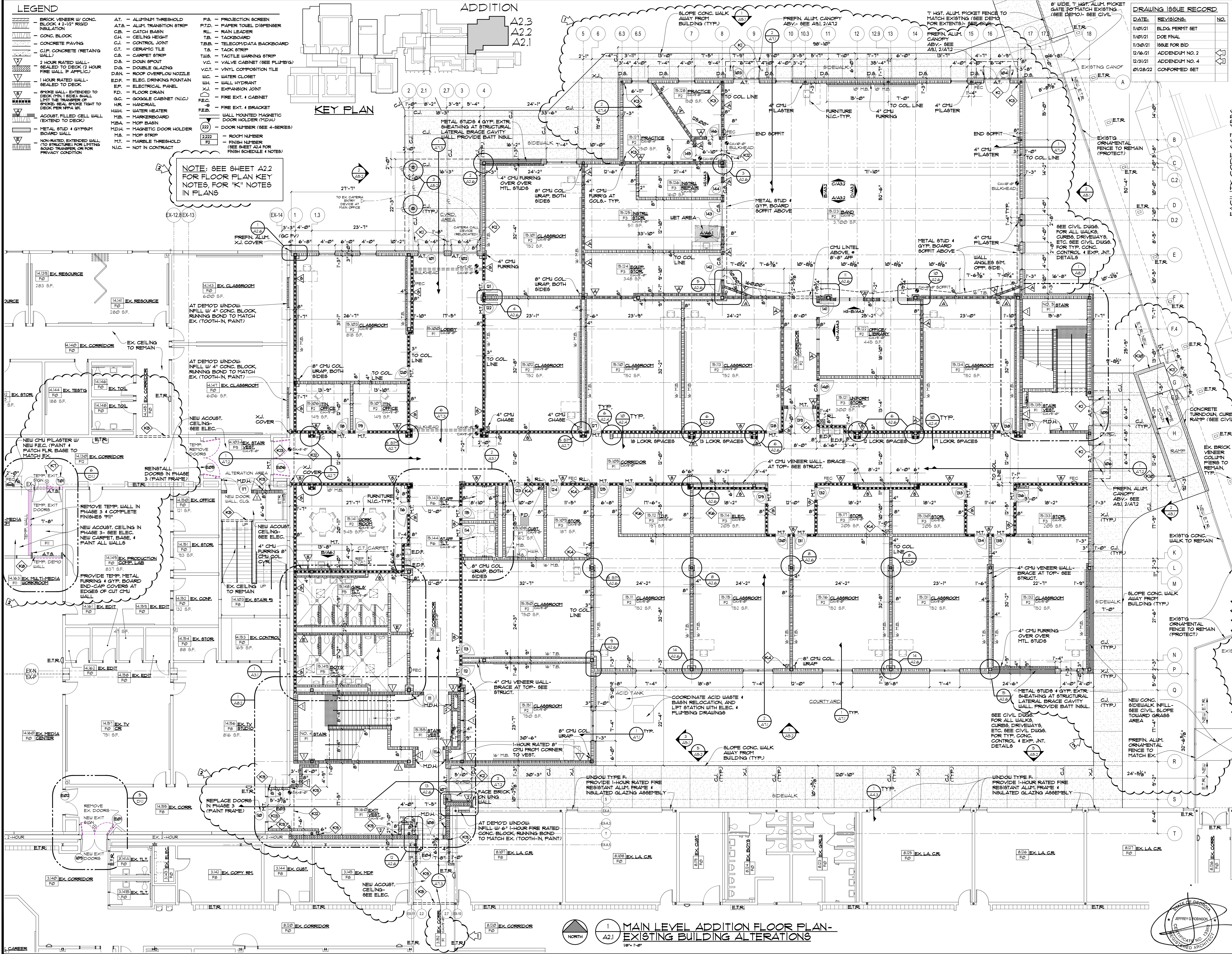
NOTE: SEE SHEET A2.2 FOR FLOOR PLAN KEY NOTES, FOR "K" NOTES IN PLANS

KEY PLAN

ADDITION

A2.3  
A2.2  
A2.1

DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
12/16/21	ADDENDUM NO. 4	
01/28/22	CONFORMED SET	



1 MAIN LEVEL ADDITION FLOOR PLAN - EXISTING BUILDING ALTERATIONS  
A2.1  
18" x 18"

FACILITY CODE 667-4556  
NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR: GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**  
cunningham, forehand, matthews & moore, architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152  
DATE: MARCH 1, 2021  
SHEET: 01-02-01  
SCALE: 1/8" = 1'-0"

**LEGEND**

- BRICK VENEER W/ CONC. BLOCK # 2-1/2" RIGID INSULATION
- CONCRETE BLOCK
- CONCRETE PAVING
- G.P. CONCRETE (RETAINING WALL)
- 2 HOUR RATED WALL - SEALED TO DECK (2 HOUR FIRE WALL, IF APPLIC.)
- 1 HOUR RATED WALL - SEALED TO DECK
- SMOKE WALL - EXTENDED TO DECK (MIN. 1" SIDES SHALL LIMIT THE TRANSFER OF SMOKE SEAL SMOKE TIGHT TO DECK PER MPA 01)
- NON-RATED EXTENDED WALL (TO STRUCTURE FOR LIGHTING SOUND TRANSFER OR FOR PRIVACY CONDITION)
- A.T. - ALUMINUM THRESHOLD
- A.T.A. - ALUM. TRANSITION STRIP
- C.B. - CATCH BASIN
- CH. - CEILING HEIGHT
- C.J. - CONTROL JOINT
- C.T. - CERAMIC TILE
- C.S. - CARPET STRIP
- D.S. - DOWN SPOUT
- D.G. - DOUBLE GLAZING
- D.S.N. - ROOF OVERFLOW NOZZLE
- E.D.F. - ELEC. DRINKING FONTAIN
- E.P. - ELECTRICAL PANEL
- F.D. - FLOOR DRAIN
- G.C. - GOGGLE CABINET (N.I.C.)
- H.U. - WATER HEATER
- H.R. - HANDRAIL
- H.W. - WATER HEATER
- M.B. - MARKERBOARD
- M.B.A. - MOP BASIN
- M.D.H. - MAGNETIC DOOR HOLDER
- M.S. - MOP STRIP
- M.T. - MARBLE THRESHOLD
- N.I.C. - NOT IN CONTRACT
- P.A. - PROJECTION SCREEN
- P.T.D. - PAPER TOILET DISPENSER
- R.L. - RAIN LEADER
- T.B. - TACKBOARD
- T.B.S. - TELEPHONE/DATA BACKBOARD
- T.A. - TACK STRIP
- T.W.S. - TACTILE WARNING STRIP
- V.C. - VALVE CABINET (SEE PLUMB'G)
- V.C.T. - VINYL COMPOSITION TILE
- W.C. - WATER CLOSET
- W.H. - WALL HYDRANT
- X.J. - EXPANSION JOINT
- F.E.C. - FIRE EXT. 4 CABINET
- F.E.B. - FIRE EXT. 4 BRACKET
- 222 - WALL MOUNTED MAGNETIC DOOR HOLDER (MDH)
- 2222 - ROOM NUMBER
- F2 - FINISH NUMBER (SEE SHEET A2.4 FOR FINISH SCHEDULE 4 NOTES)

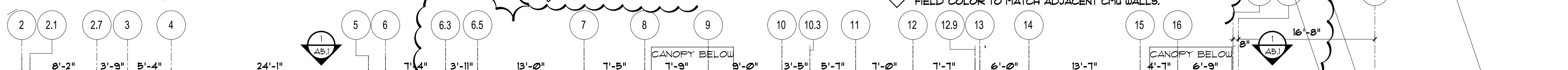
**ADDITION 2<sup>ND</sup> FLOOR PLAN KEY NOTES :**

- NOTE: SEE SHEET A2.4 FOR GENERAL NOTES.
- EXTERIOR POLE TYPE DOOR STOP (SEE DET. 1/A4.1).
- EXTERIOR FLOOR MOUNTED DOOR STOP (SEE DET. 2/A4.1).
- 4" x 4" CMU COLUMN COVER AT CORNER. PROVIDE METAL STRAP ANCHOR AT ONE SIDE.
- 4" CMU PIPE CHASE COVER AT CORNER. PROVIDE METAL STRAP ANCHORS AT SIDES.
- GYPSUM BOARD BULK-HEAD ABOVE - SEE PLANS 4 SECTIONS FOR HEIGHT AFF. (SEE 2/A2.4).
- ELEC. EQUIPMENT THIS SPACE - SEE ELEC. (PROVIDE CURB - SEE 4/A2.4).
- REMOVE TEMP DOORS IN PHASE 3, 4 INFILL W/ 8" CONC. BLOCK RUNNING BOND TO MATCH EX. (TOOTH-IN, PAINT). PATCH FLR. BASE TO MATCH EX. REMOVE TEMP. EXIT SIGN.
- INFILL TEMP OPENING IN PHASE 3 W/ 8" CONC. BLOCK RUNNING BOND TO MATCH EX. (TOOTH-IN, PAINT). PATCH FLR. BASE TO MATCH EX. REMOVE TEMP. FURRING 4 A.T.S.
- PREFINISHED ALUM. EXPANSION JOINT COVER AT WALL.
- 42" HGT. METAL PIPE GUARDRAIL, NO PICKETS (PAINT) - SEE CIVIL FOR DETAILS.
- 6" WIDE 1" HGT. ALUM. PICKET GATE TO MATCH EXISTING (SEE DEMO); SEE CIVIL.
- GYPSUM BOARD SOFFIT ABOVE - SEE PLANS 4 SECTIONS FOR HEIGHT AFF.
- PAINT EXISTING FACE BRICK AT NEW INTERIOR SPACE WALL. FIELD COLOR TO MATCH ADJACENT CMU WALLS.

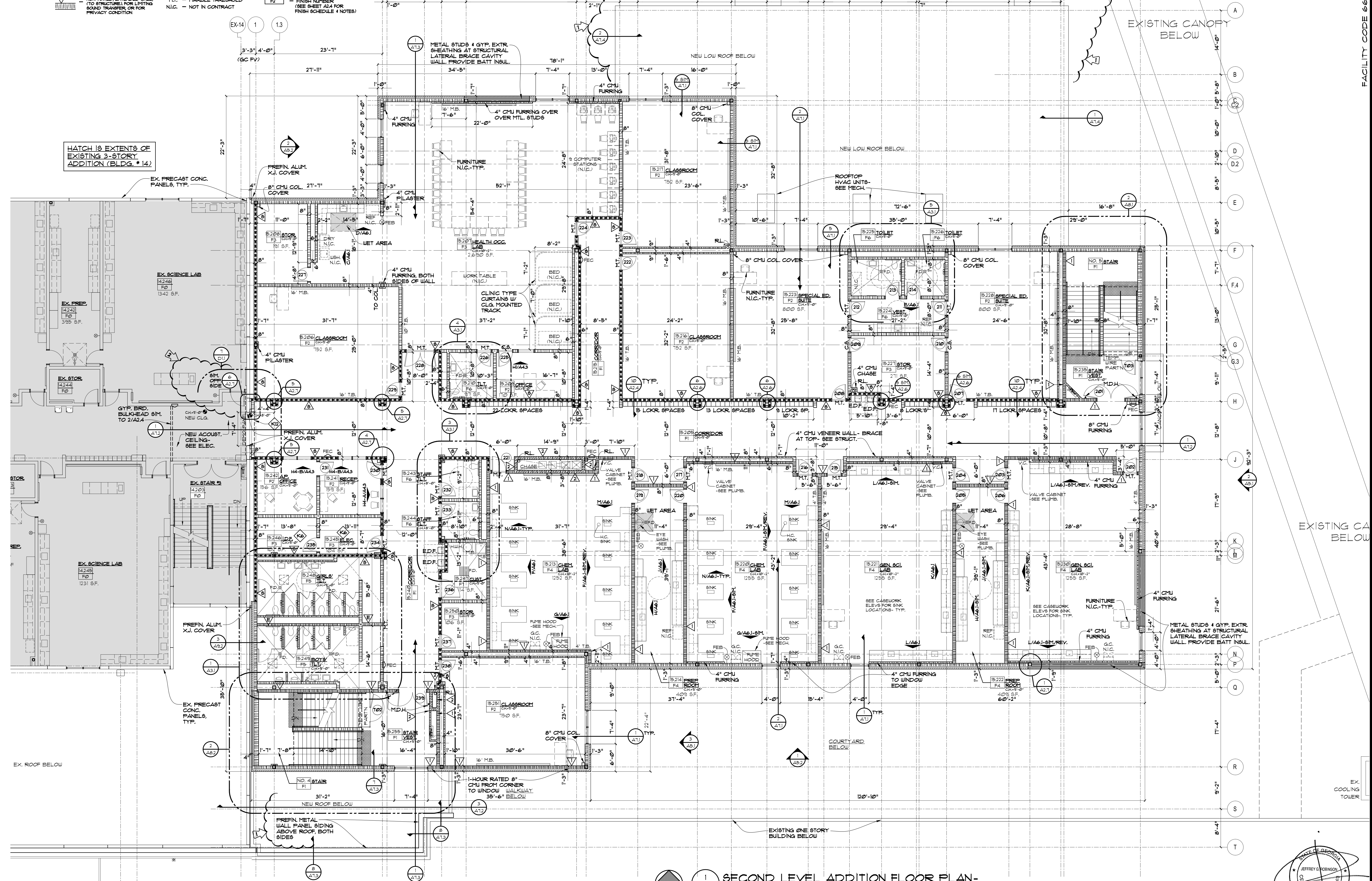
**DRAWING ISSUE RECORD**

DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
12/16/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
12/13/21	ADDENDUM NO. 4	
01/28/22	CONFORMED SET	

**KEY PLAN**



HATCH IS EXTENTS OF EXISTING 3-STORY ADDITION (BLDG. # 14)



**1 SECOND LEVEL ADDITION FLOOR PLAN - EXISTING BUILDING ALTERATIONS**  
A2.2  
1/8" = 1'-0"

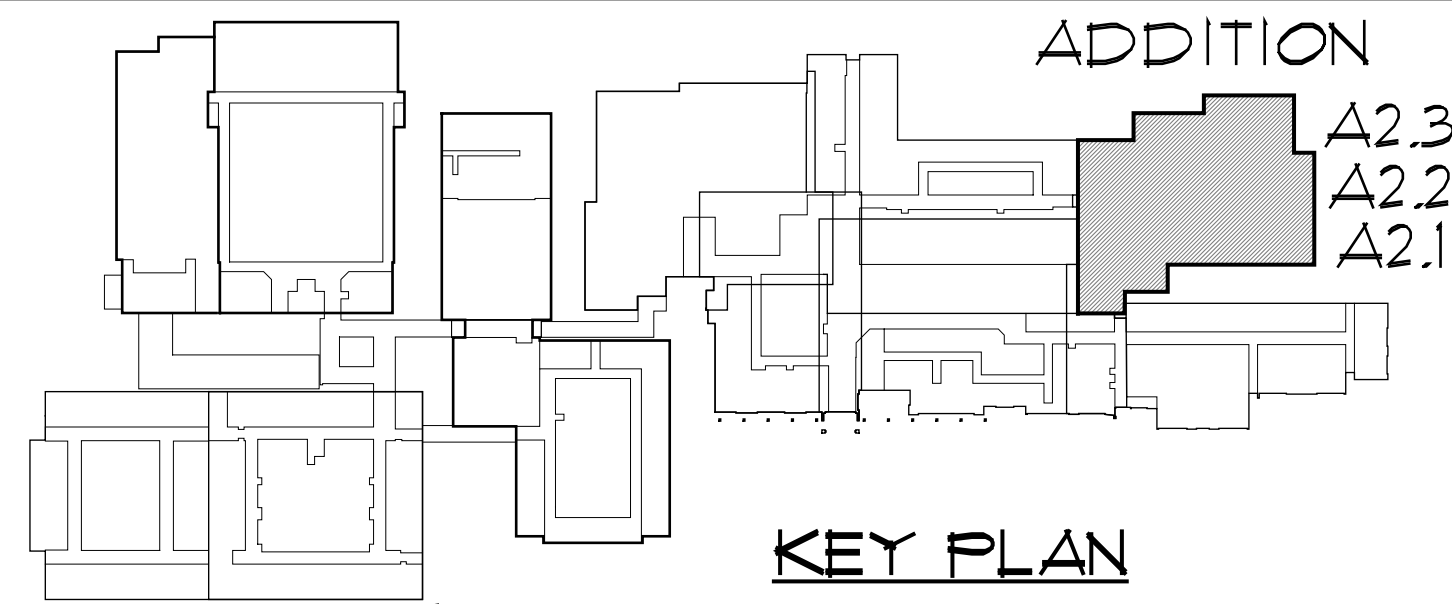
FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

**LEGEND**

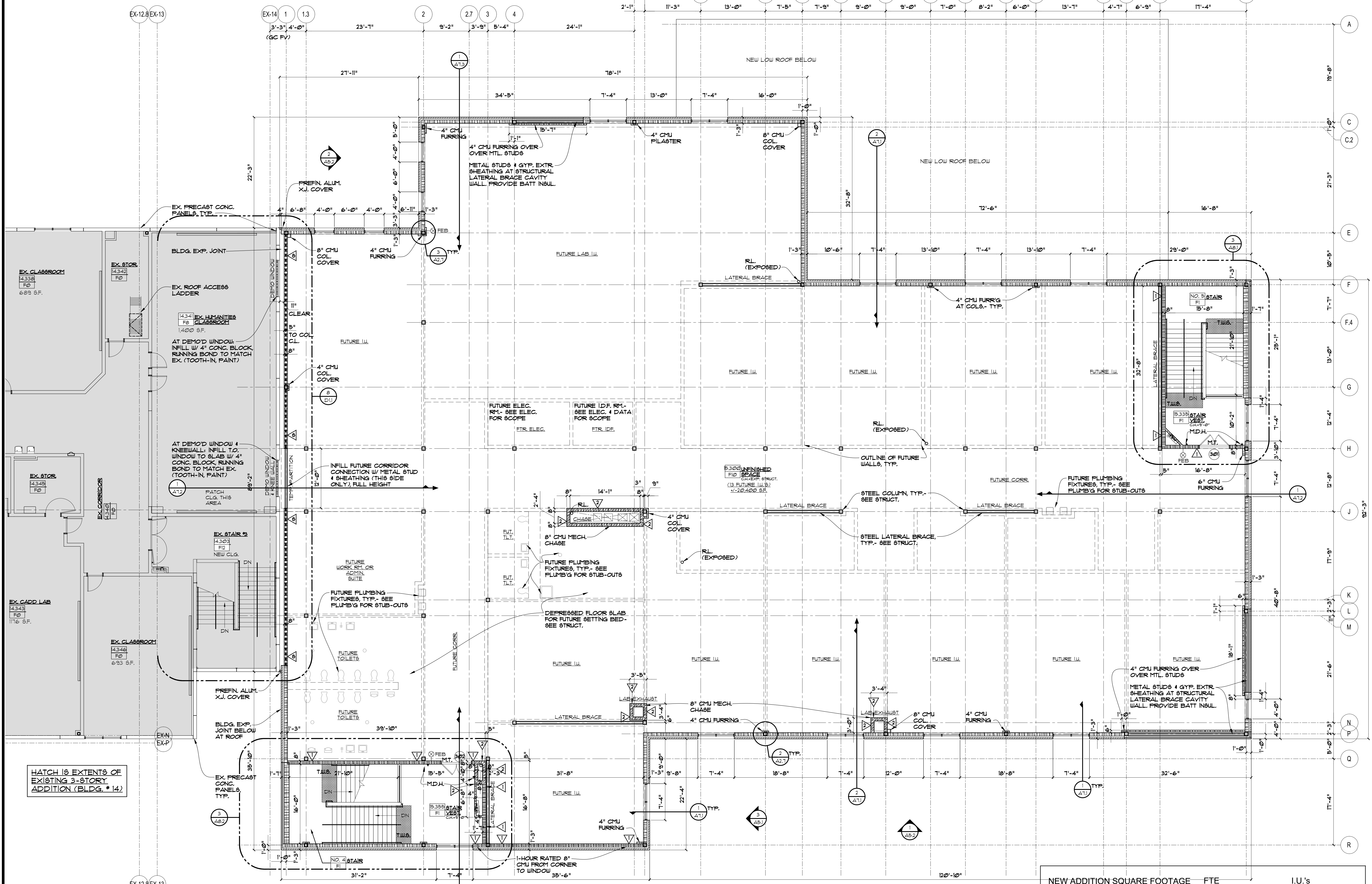
- BRICK VENEER W/ CONG. BLOCK 12-1/2" RIGID INSULATION
- CONC. BLOCK
- CONCRETE PAVING
- CLIP CONCRETE (RETAINING WALL)
- 2 HOUR RATED WALL - SEALED TO DECK (2 HOUR FIRE WALL IF APPLIC.)
- 1 HOUR RATED WALL - SEALED TO DECK
- SMOKE WALL - EXTENDED TO DECK (MIN. 1 SIDE) SHALL LIMIT THE TRANSFER OF SMOKE; SEAL SMOKE TIGHT TO DECK PER NFPA 90A
- ADJUST BILLED CELL WALL (EXTEND TO DECK)
- METAL STUD & GYPSUM BOARD WALL
- NON-RATED, EXTENDED WALL (NO STRUCTURE) FOR LIVING SOUND TRANSFER, OR FOR PRIVACY CONDITION
- ALUM. THRESHOLD
- ALUM. TRANSITION STRIP
- CATCH BASIN
- CEILING HEIGHT
- CONTROL JOINT
- CERAMIC TILE
- CARPET STRIP
- DOWN SPOUT
- DOUBLE GLAZING
- ROOF OVERFLOW NOZZLE
- ELEC. DRINKING FOUNTAIN
- ELECTRICAL PANEL
- FLOOR DRAIN
- GOGGLE CABINET (N.I.C.)
- HANDRAIL
- WATER HEATER
- MARKERBOARD
- HOP BASIN
- MAGNETIC DOOR HOLDER
- MOP STRIP
- MARBLE THRESHOLD
- NOT IN CONTRACT
- PROJECTION SCREEN
- PAPER TOWEL DISPENSER
- RAIN LEADER
- TACKBOARD
- TELECOM/DATA BACKBOARD
- TACK STRIP
- TACTILE WARNING STRIP
- VALVE CABINET (SEE PLUMB'G)
- VINYL COMPOSITION TILE
- WATER CLOSET
- WALL HYDRANT
- EXPANSION JOINT
- FIRE EXT. CABINET
- FIRE EXT. BRACKET
- WALL MOUNTED MAGNETIC DOOR HOLDER (M.D.H.)
- DOOR NUMBER (SEE 4-SERIES)
- ROOM NUMBER
- FINISH NUMBER (SEE SHEET A24 FOR FINISH SCHEDULE & NOTES)

**ADDITION**



**KEY PLAN**

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/13/21	ISSUE FOR BID	
2/12/22	CONFORMED SET	



NEW ADDITION SQUARE FOOTAGE		FTE	I.U.'s
-MAIN LEVEL	+/- 27,070 SQ. FT.	EXISTING- 2,625 STUDENTS	EXISTING- 135 I.U.'s
-SECOND LEVEL	+/- 22,460 SQ. FT.	ADDITION- 500 STUDENTS	ADDITION- 25 I.U.'s
-THIRD LEVEL*	+/- 22,460 SQ. FT.	PROPOSED	PROPOSED
TOTAL NEW ADDITION	+/- 71,990 SQ. FT.	TOTAL- 3,125 STUDENTS	TOTAL- 160 I.U.'s

\* THIRD LEVEL FUTURE EXPANSION: 13,110 I.U.'s, +/- 20,400 SQ. FT. BUILD-OUT

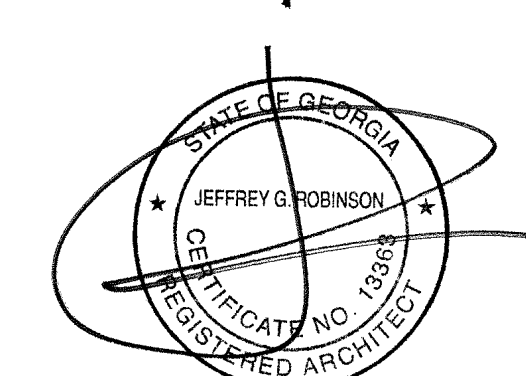
**1 THIRD LEVEL ADDITION FLOOR PLAN- EXISTING BUILDING ALTERATIONS**

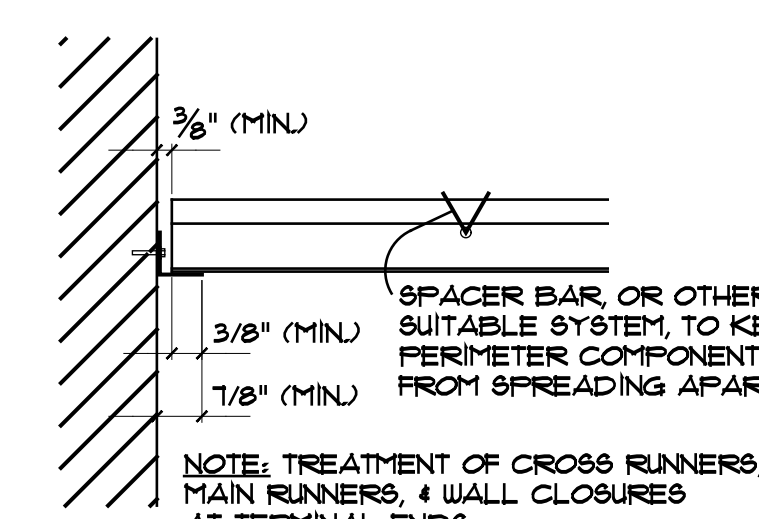
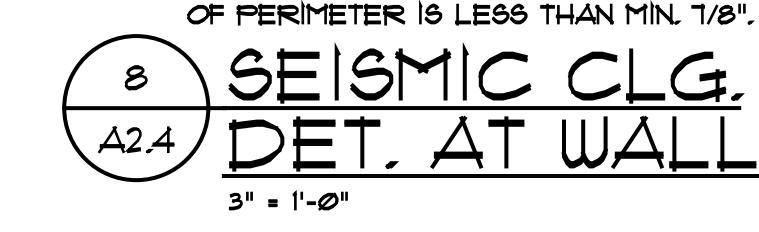
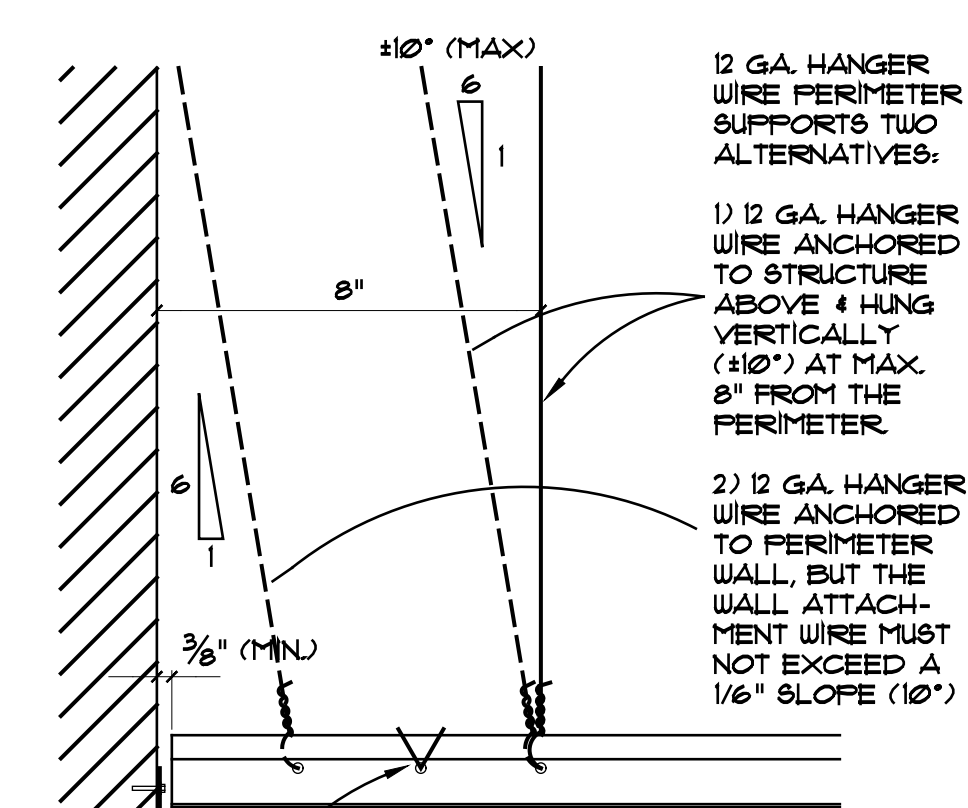
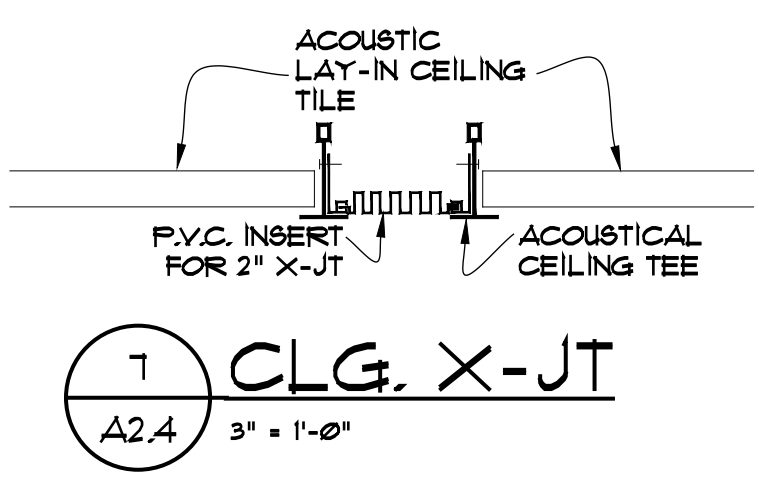
FACILITY CODE 66T-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 DESIGNED BY: JRM, JHM  
 DRAWN BY: MMT, AP  
 CHECKED BY: JRM, JHM  
 APPROVED BY: JRM, JHM

cunningham forehand matthews moore

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

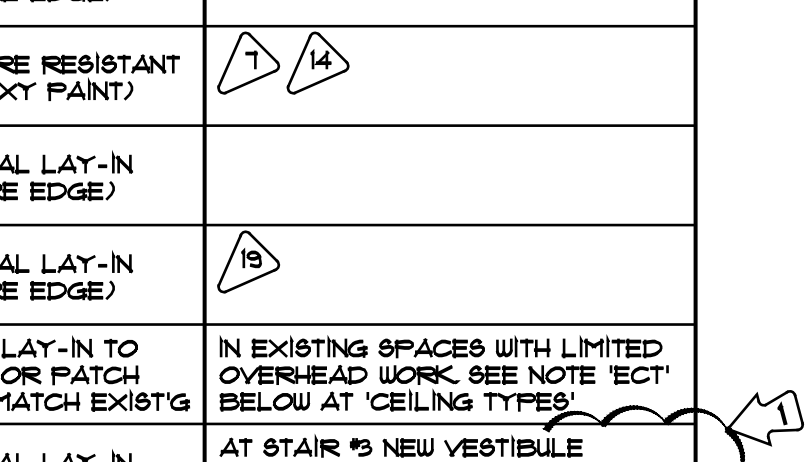
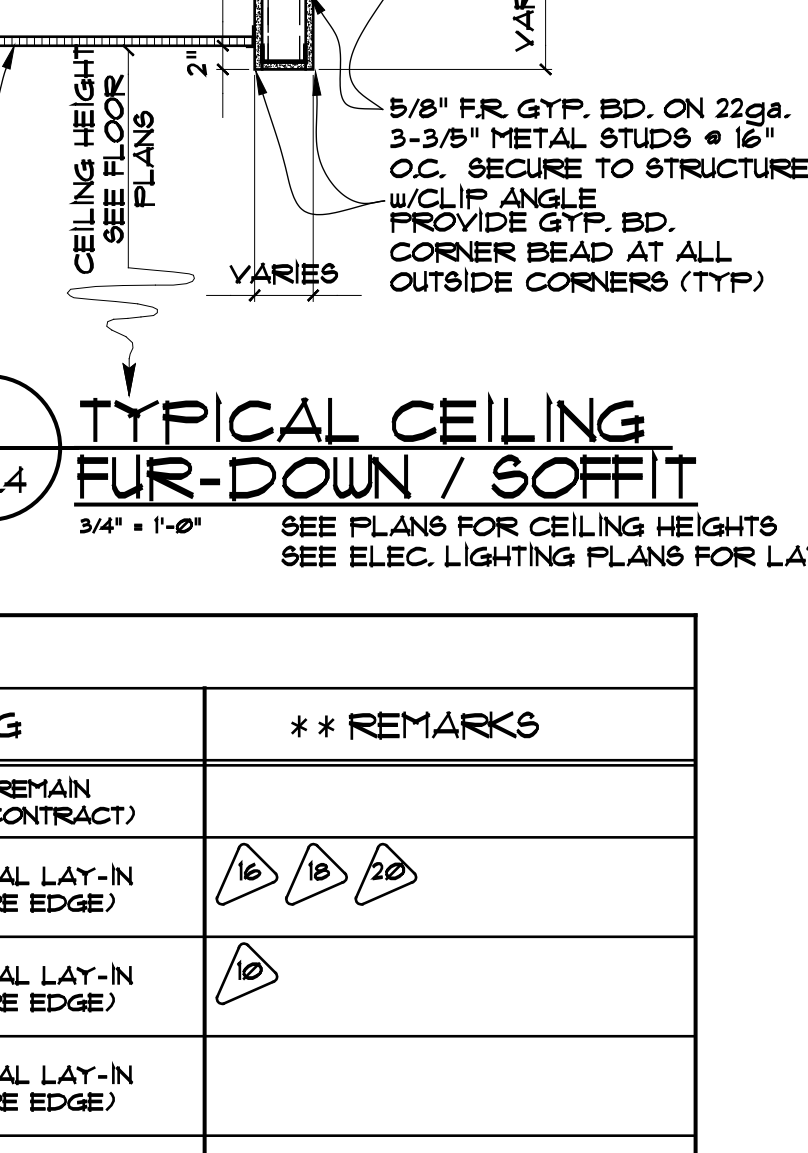
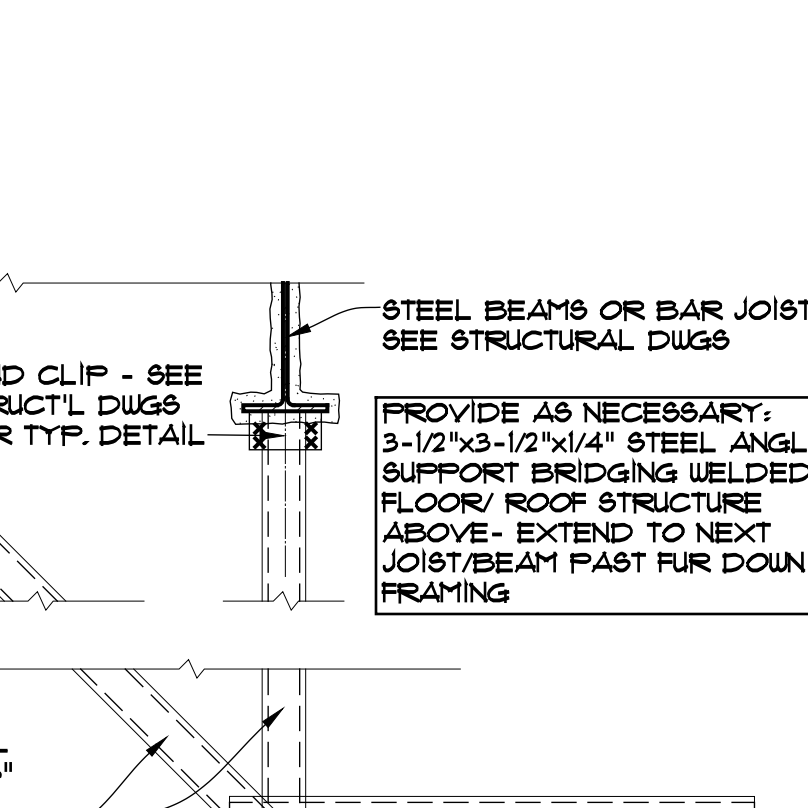
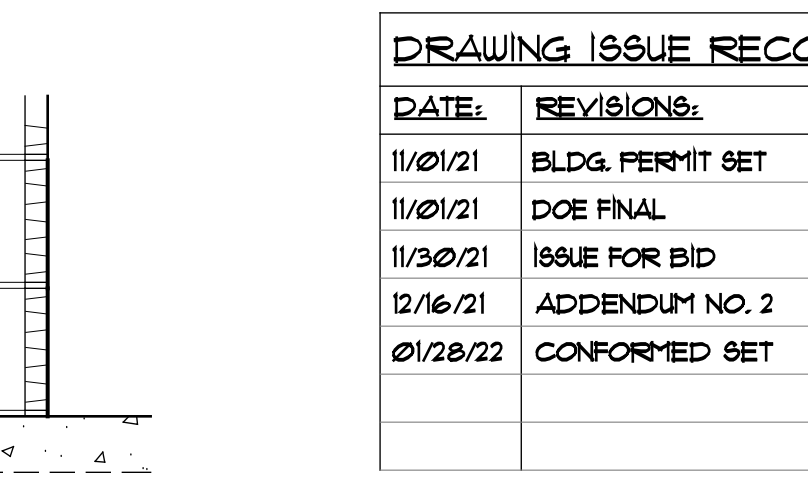
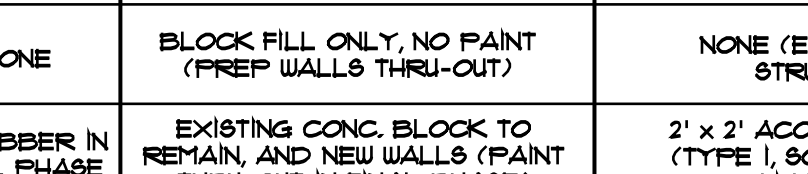
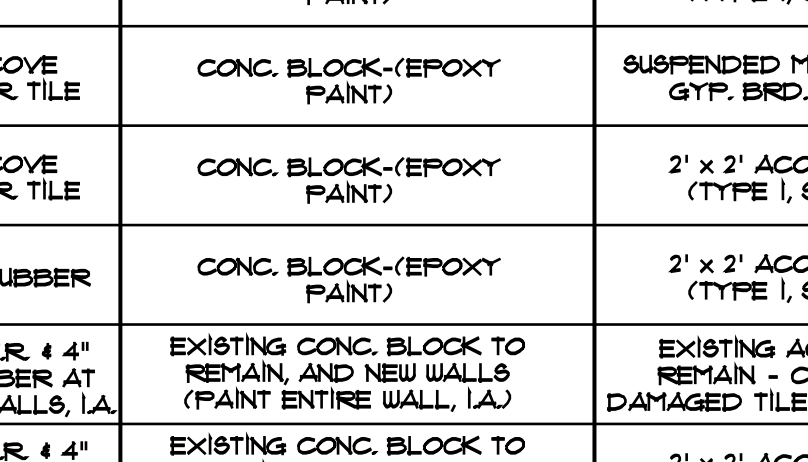
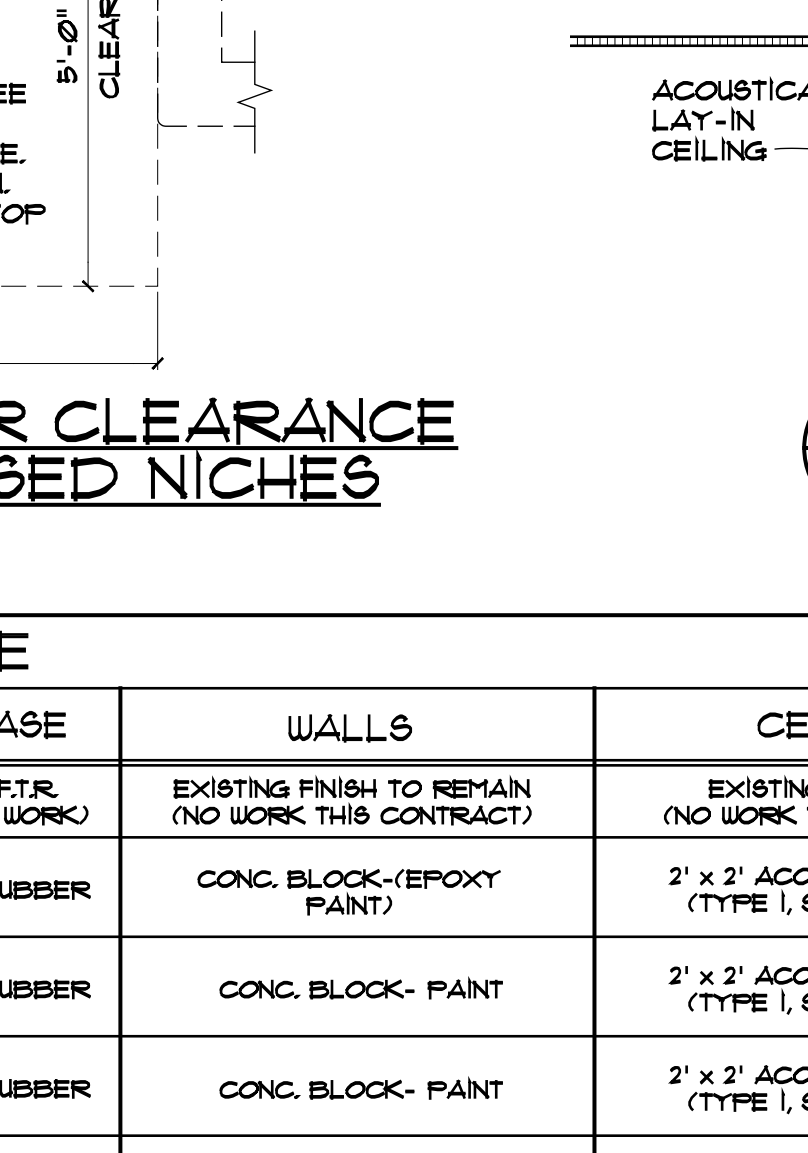
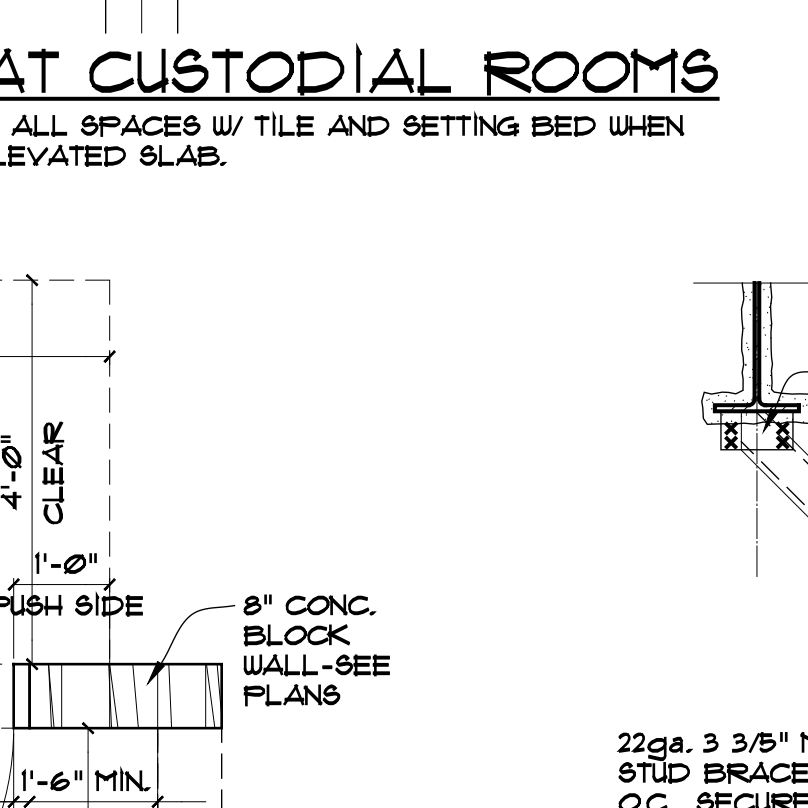
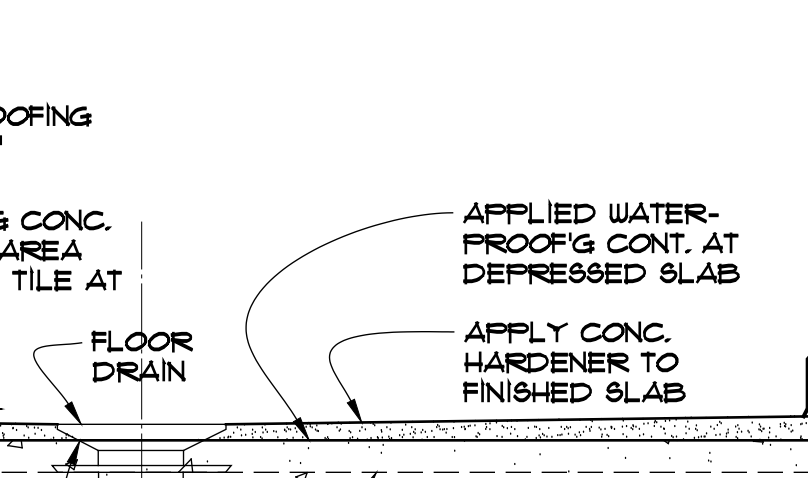
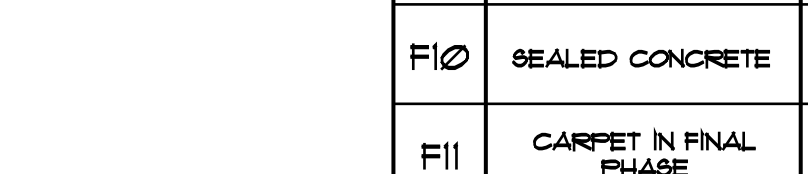
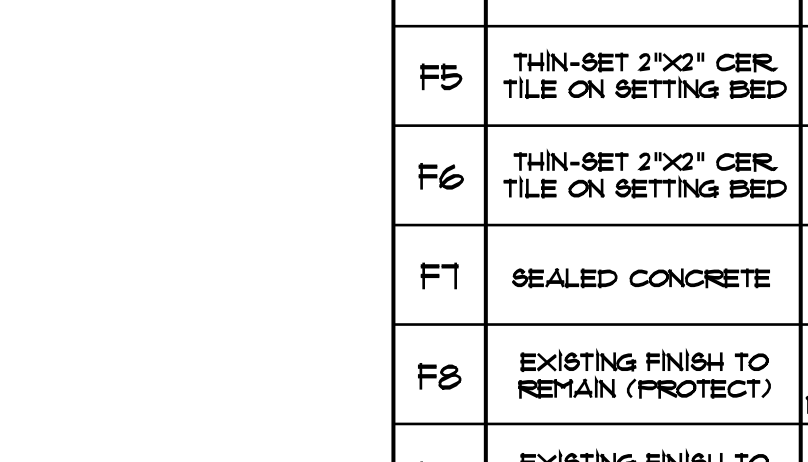
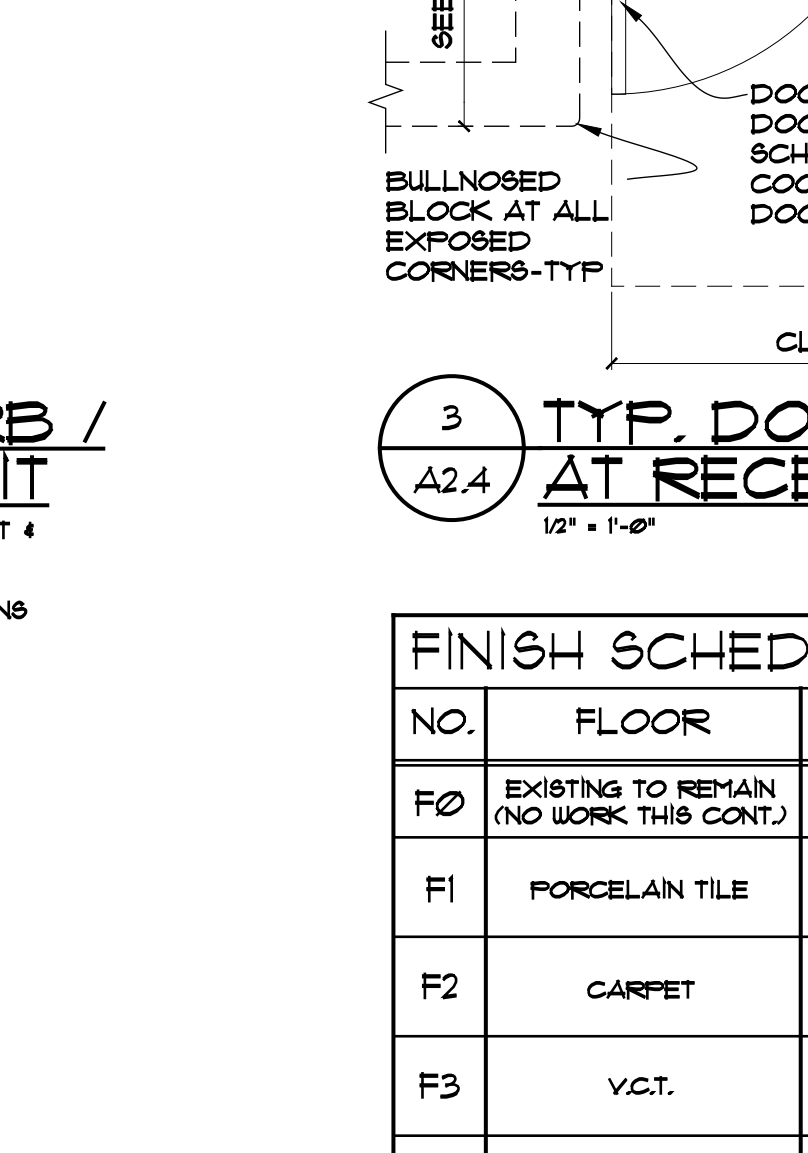
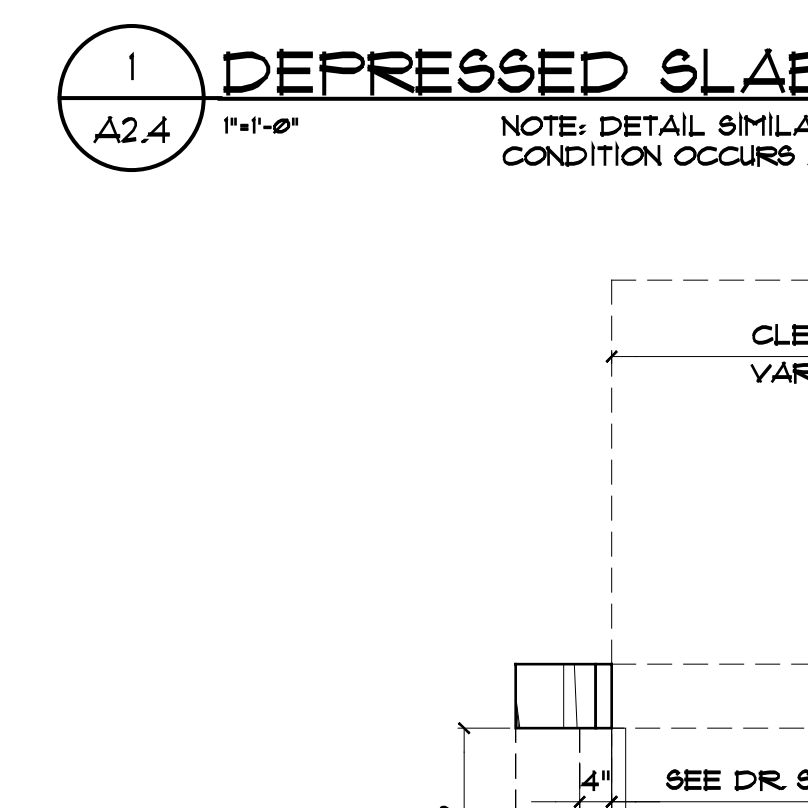
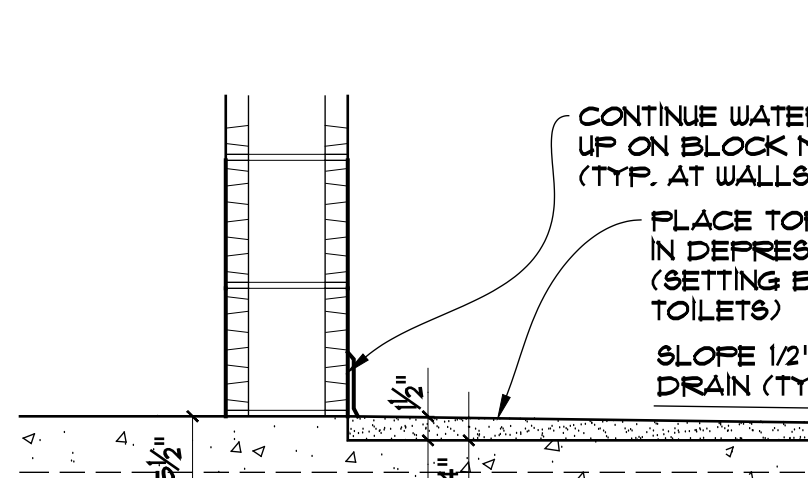
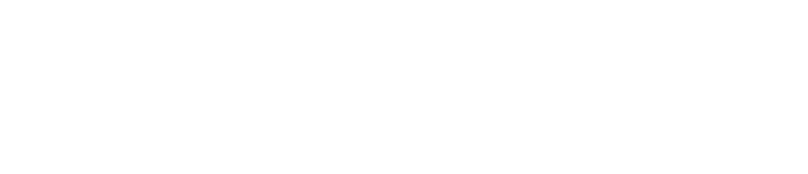
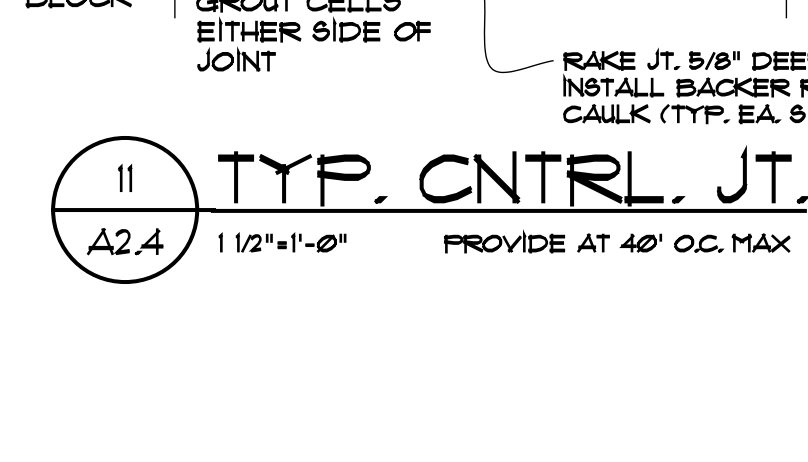
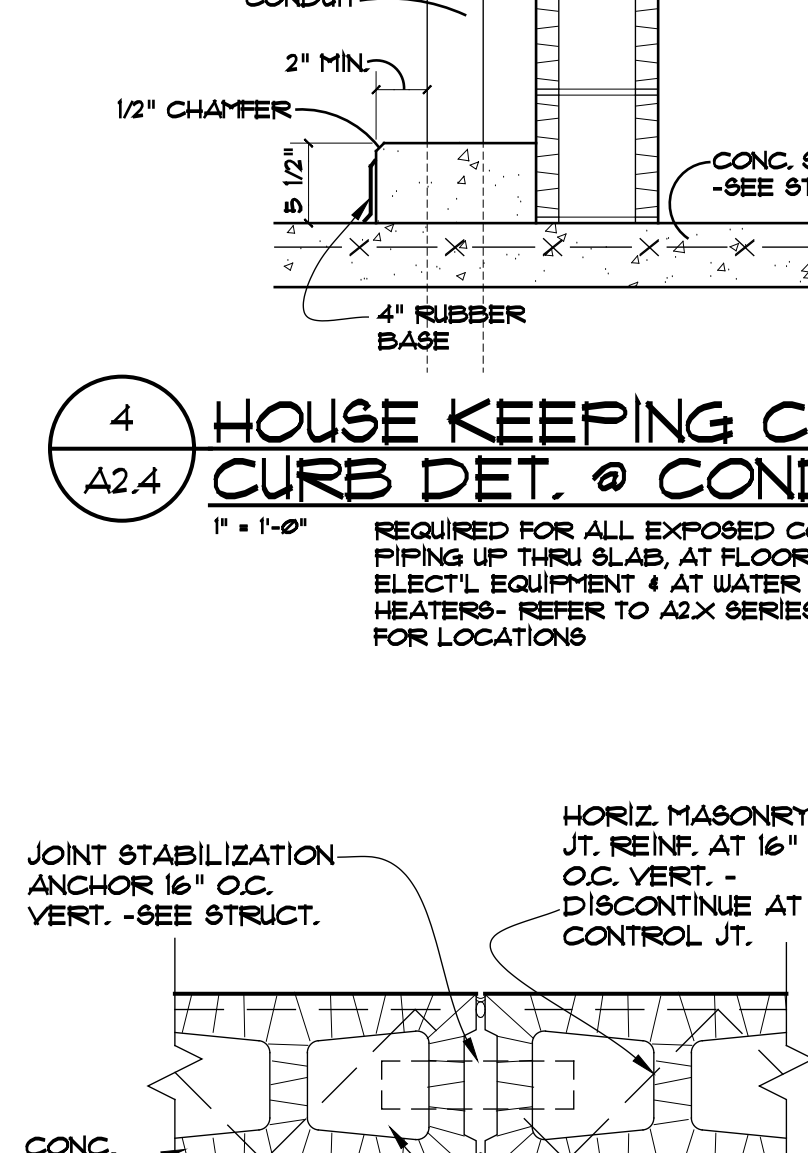
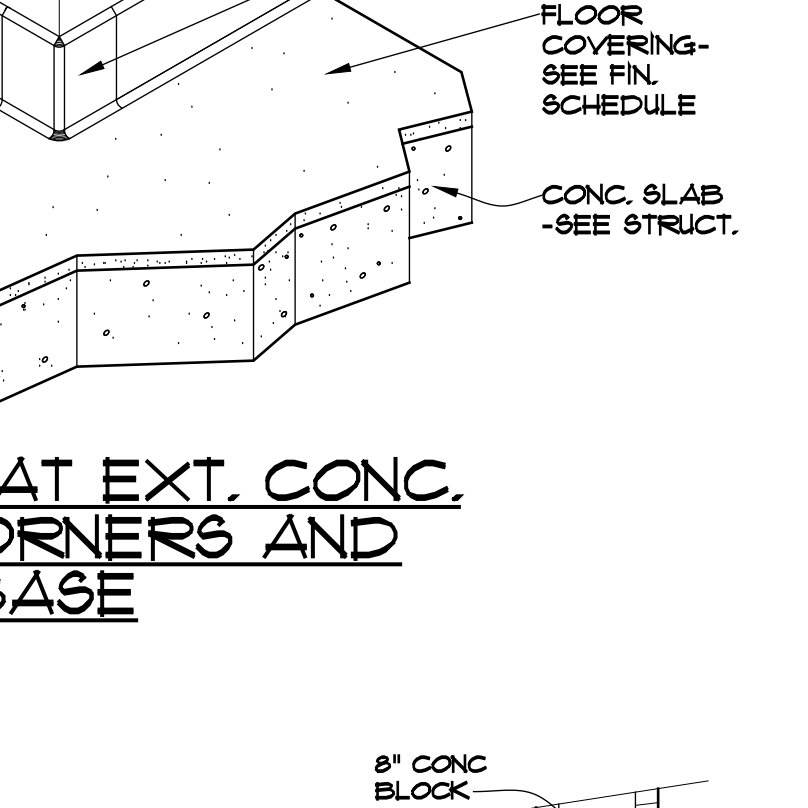
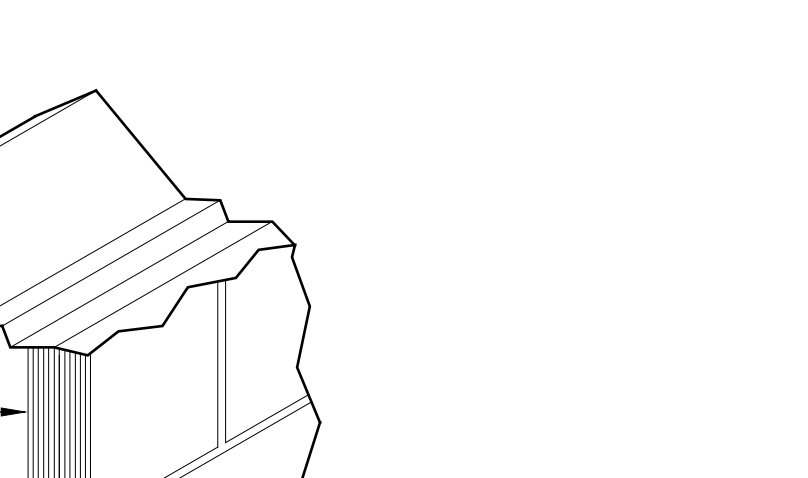
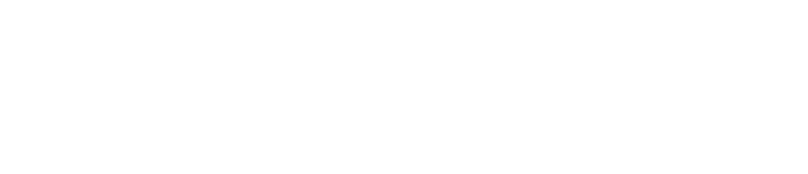
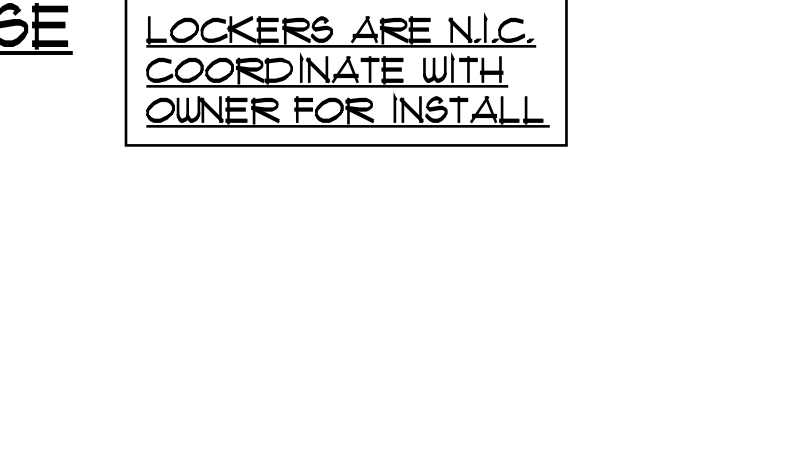
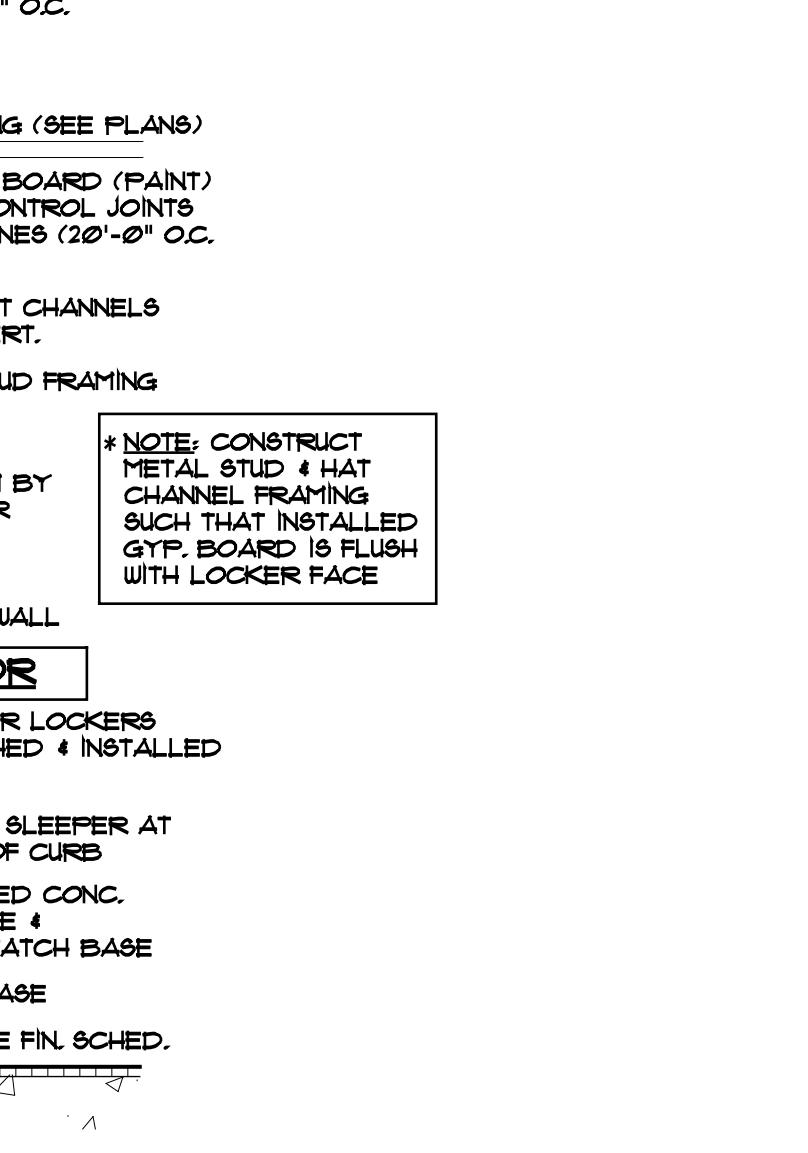
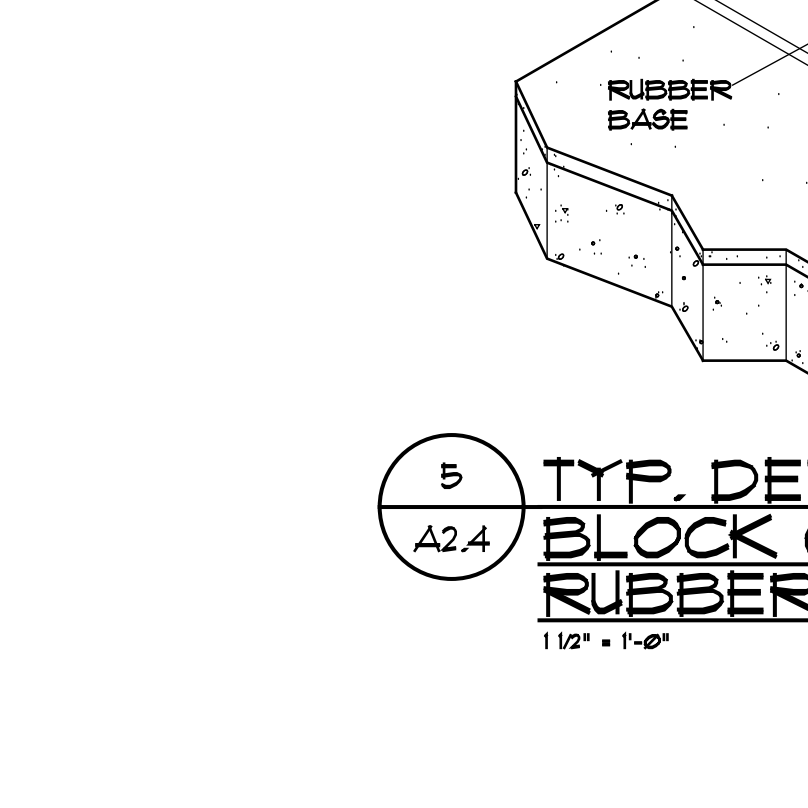
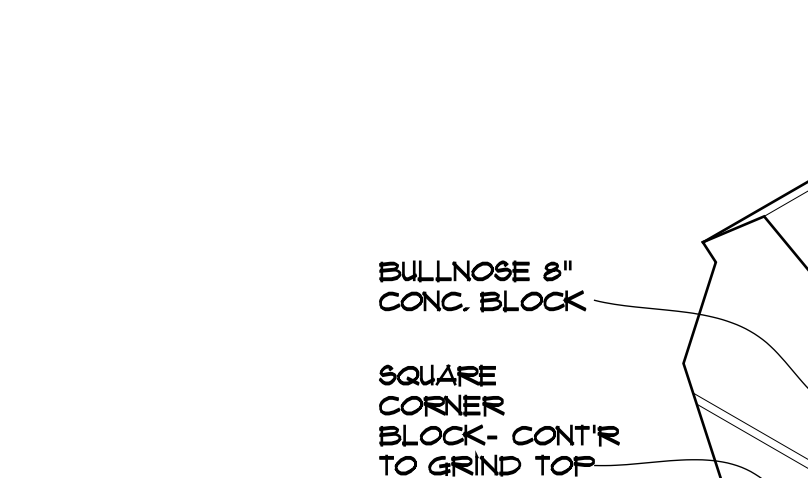
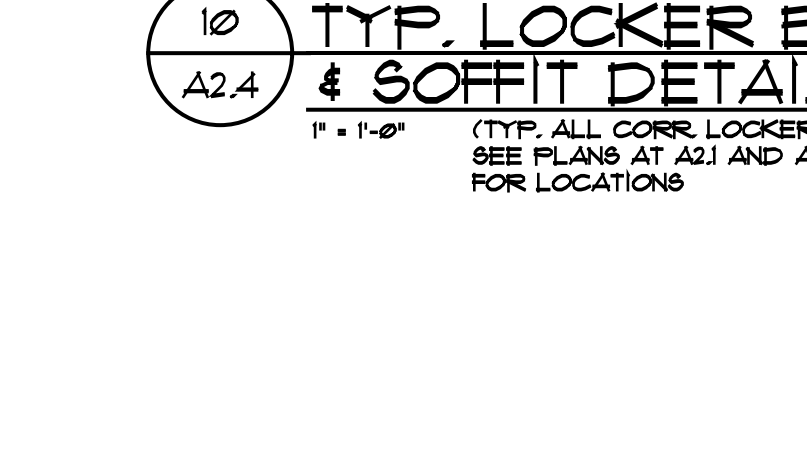
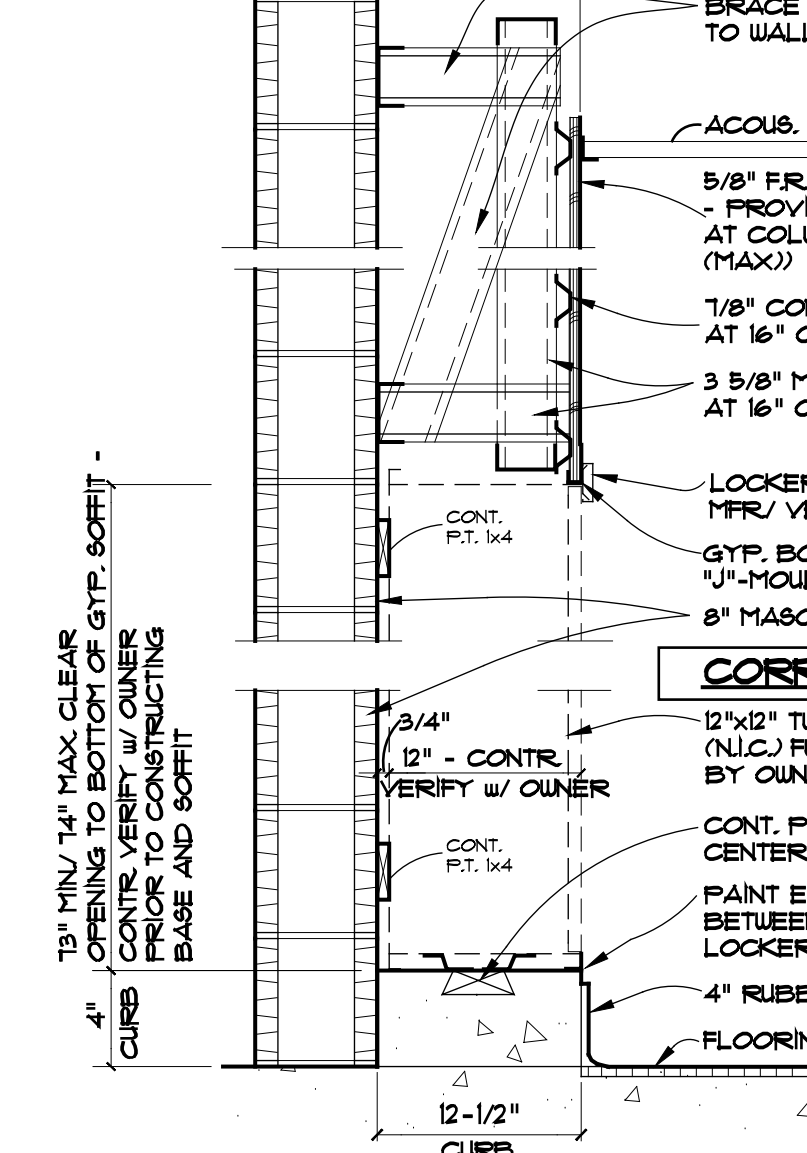
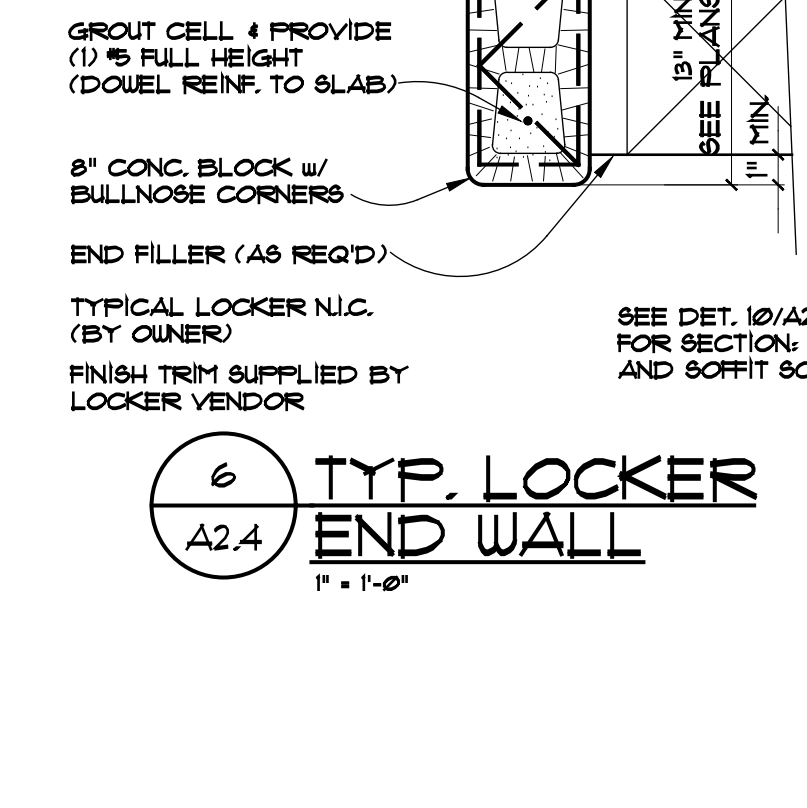
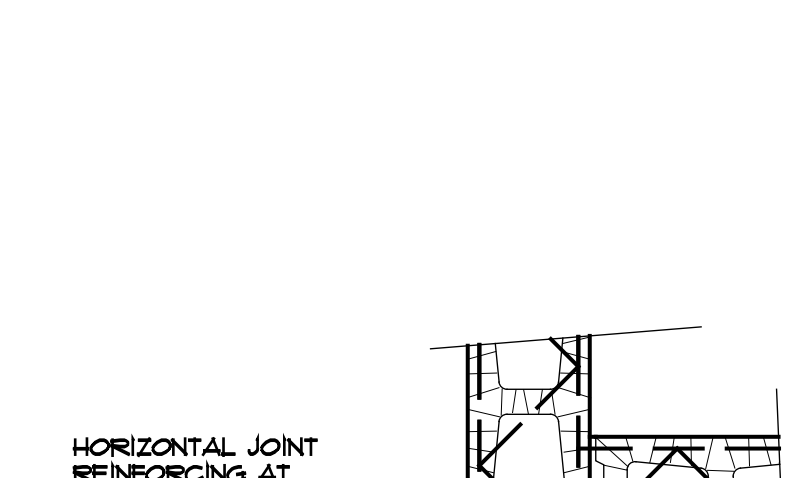
A2.3





**GENERAL NOTES:**

- (THESE NOTES APPLY TO ALL DRAWINGS)
- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE, PARTICULARLY DIMENSIONS AND CONDITIONS AFFECTING SHOP DRAWING SUBMITTALS.
- DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUDS AND CENTERLINES OF COLUMNS, UNLESS OTHERWISE NOTED.
  - ALL CONC. BLOCK IN NEW CONSTRUCTION SHALL BE RUNNING BOND.
  - PROVIDE BULLNOSE CONC. BLOCK AT ALL EXPOSED EXTERNAL CORNERS.
  - ALL ITEMS LOCATED IN BLOCKWORK SHALL BE SET TO WORK WITH BLOCK COURSEING WHERE POSSIBLE.
  - UNLESS OTHERWISE INDICATED EXTEND ALL MASONRY WALLS MIN. OF (3) COURSES ABOVE HIGHEST ADJACENT CLG.
  - WHERE NOT NOTED OTHERWISE EXTEND ALL TOILET WALLS MIN. 4'-0\"/>
  - WHERE NOT NOTED OTHERWISE EXTEND ALL TOILET WALLS MIN. 4'-0\"/>
  - WHERE NOT NOTED OTHERWISE EXTEND ALL TOILET WALLS MIN. 4'-0\"/>
  - REFER TO DRAWINGS A11 & A12 FLOOR PLAN LEGENDS FOR DESCRIPTION OF WALL TYPES AND EXTENSIONS ABOVE CEILING.
  - AT ALL DOOR AND WINDOW JAMBS, FILL MIN. OF (2) CONC. BLOCK CELLS EACH JAMB SOLID WITH CONCRETE FROM FLOOR UP TO LINTEL.
  - WHERE MAGNETIC DOOR HOLDERS ARE INSTALLED IN MASONRY, GROUT CELLS SOLID. COORDINATE LOCATIONS WITH DOOR SINGS.
  - WHERE GYP. BD. CEILING OCCUR CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ACCESS DOORS WITH ARCHITECT. ALL NEW GYP. BD. CEILING SHALL RECEIVE AN ACCESS DOOR. ALL PLUMBING VALVES ABOVE GYP. BOARD CEILING SHALL RECEIVE AN ACCESS DOOR.
  - PROVIDE SOUND BATT INSULATION ABOVE CEILING WHEN SHOWN ON SHEETS A1 & A12 AND/OR OTHERWISE NOTED IN FINISH SCHEDULE NOTES.
  - ALL INTERIOR GLAZING SHALL BE 1/4\"/>
  - TERMITE TREATMENT SHALL BE PROVIDED BELOW ALL NEW SLABS. SEE ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - IN ALL AREAS WITH FLOOR DRAINS, EXCEPT MECHANICAL ROOMS AND JANITORS' CLOSETS, CONTRACTOR SHALL DEPRESS SLABS 1 1/2\"/>
  - ALL UPPER LEVEL TOILETS WITH FLOOR DRAINS SHALL HAVE CONTINUOUS WATERPROOFING MEMBRANE INSTALLED PRIOR TO INSTALLING SETTING BEDS.
  - GEN. CONTRACTOR COORDINATE MOUNTING HEIGHT OF ALL MARKERBOARDS, CHALKBOARDS & TACKBOARDS w/ OWNER PRIOR TO INSTALLATION.
  - G.C. COORD. FIRE ALARM STROBES AND ELECTRICAL ITEMS TO NOT CONFLICT WITH MARKERBOARDS OR TACKBOARDS.
  - CONTR. COORD. WITH CLOCKS TO ASSURE CLEARANCE AT CEILING & BOARD. (SEE A/AB) FOR ELEVATION.
  - AT EXTERIOR DOORS INSTALL SIGNAGE TO INDICATE INTERIOR SPACE NUMBER BEYOND DOOR.
  - CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS. DO NOT SCALE PLUMBING DRAWINGS. CONTRACTOR SHALL COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT TO AVOID CONFLICTS WITH DOORS, WALL INTERSECTIONS, AND CASEWORK.

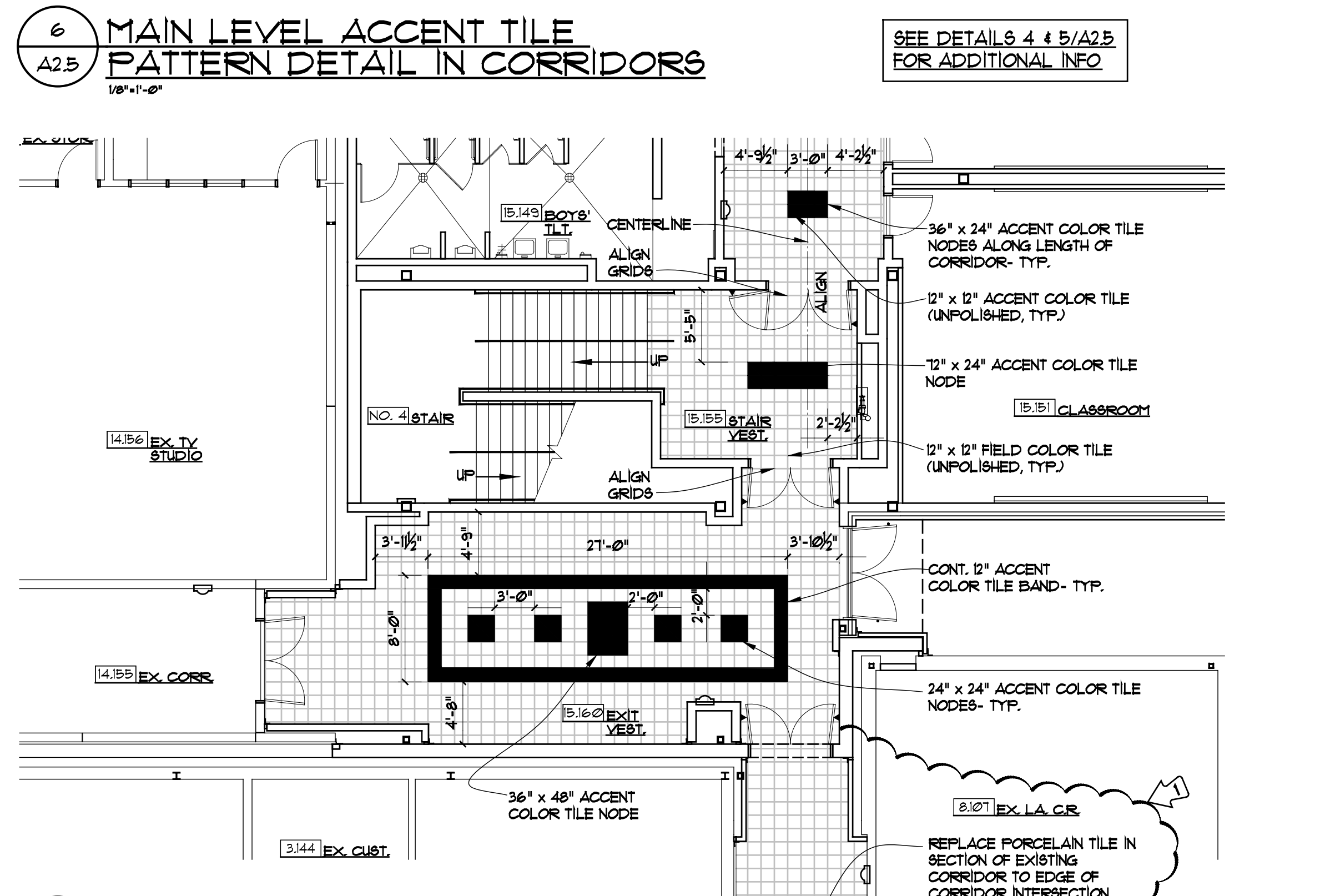
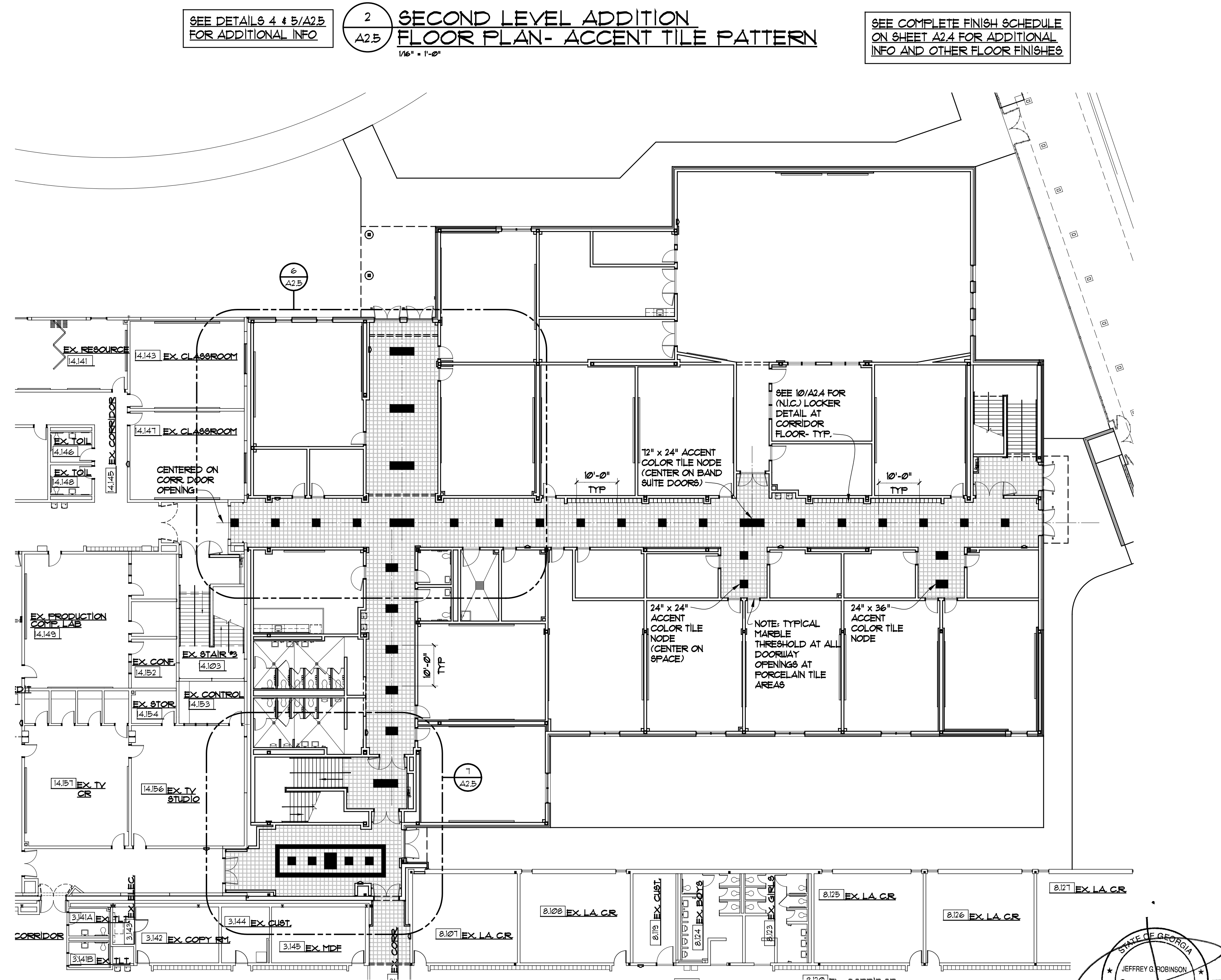
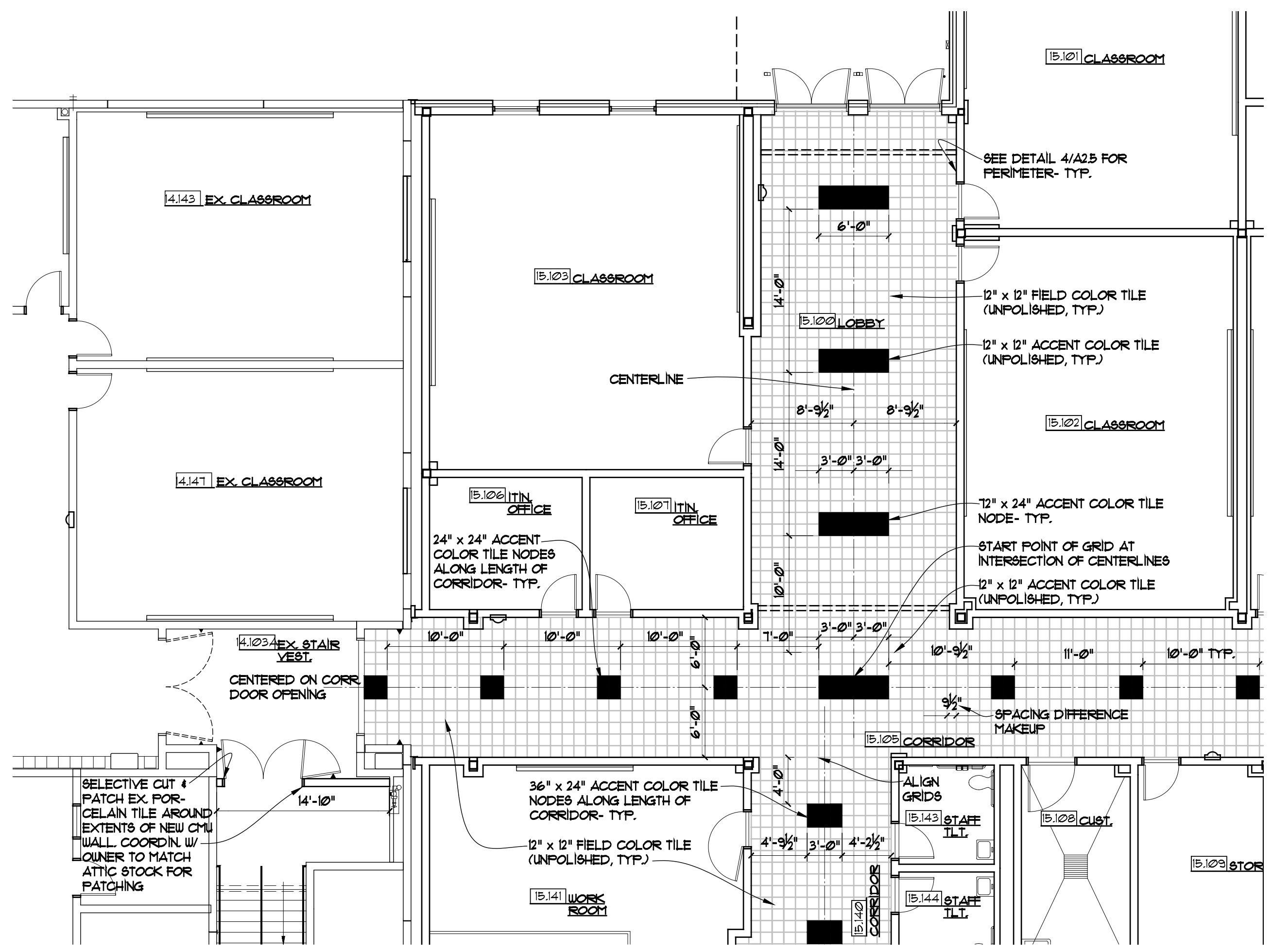
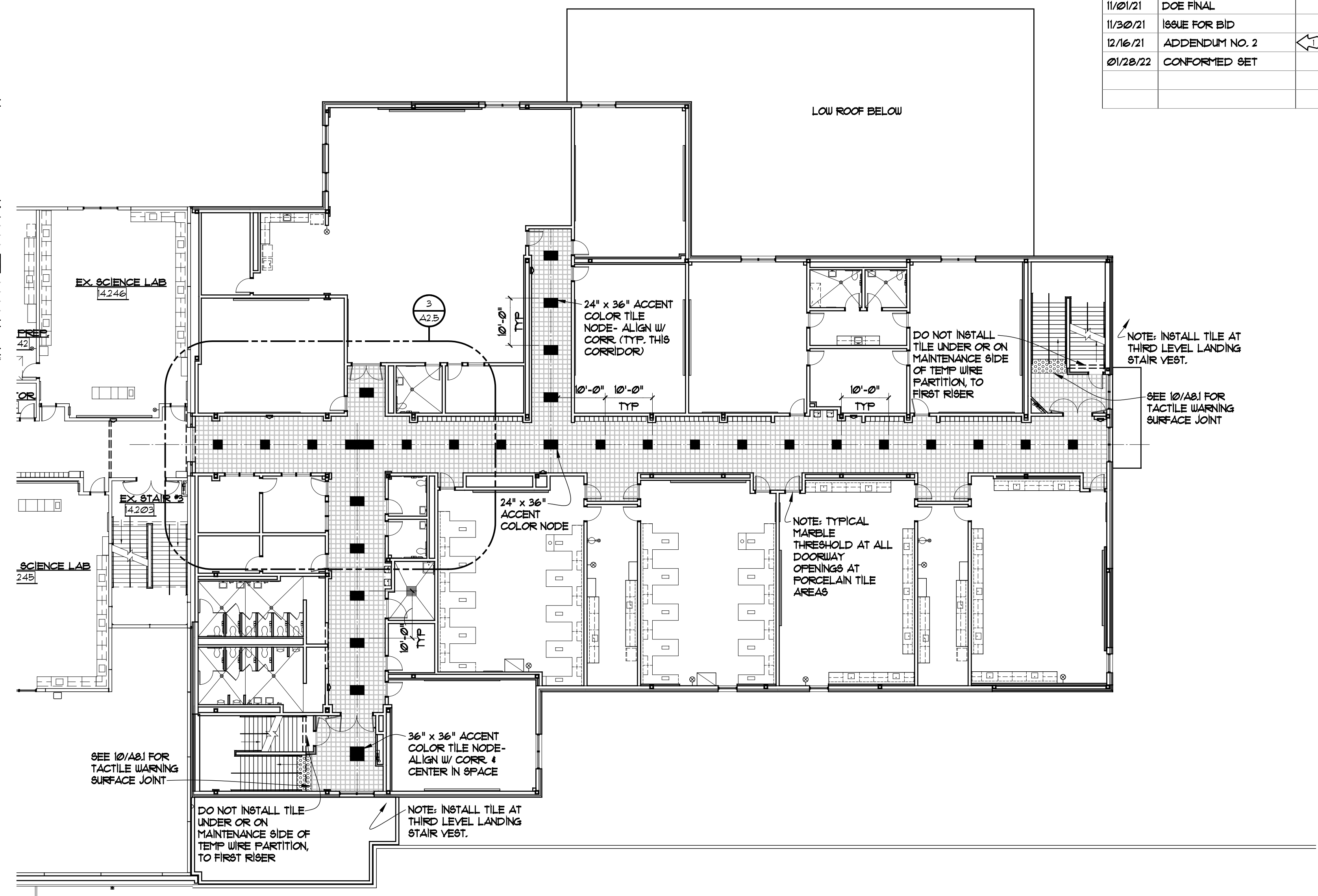
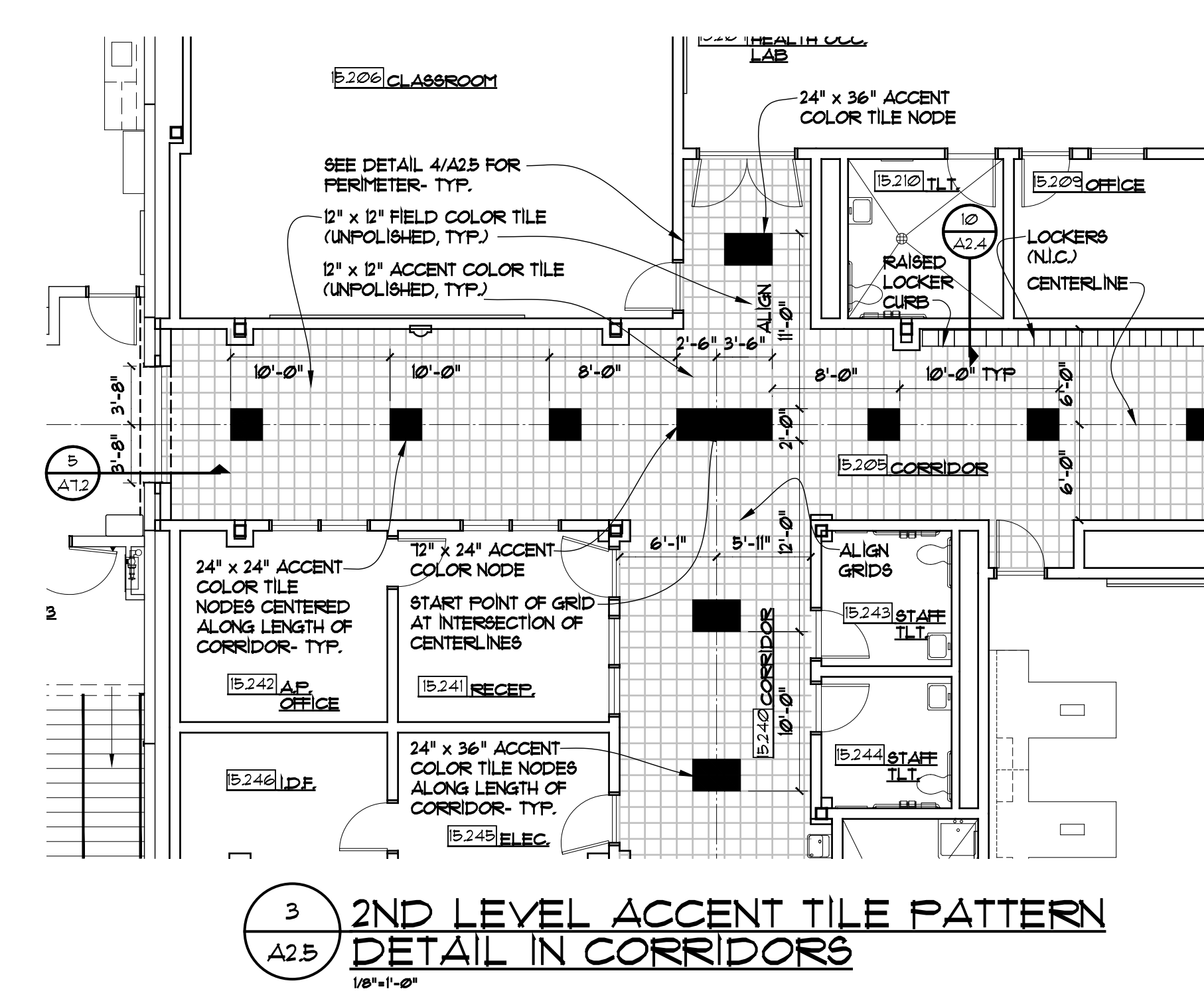
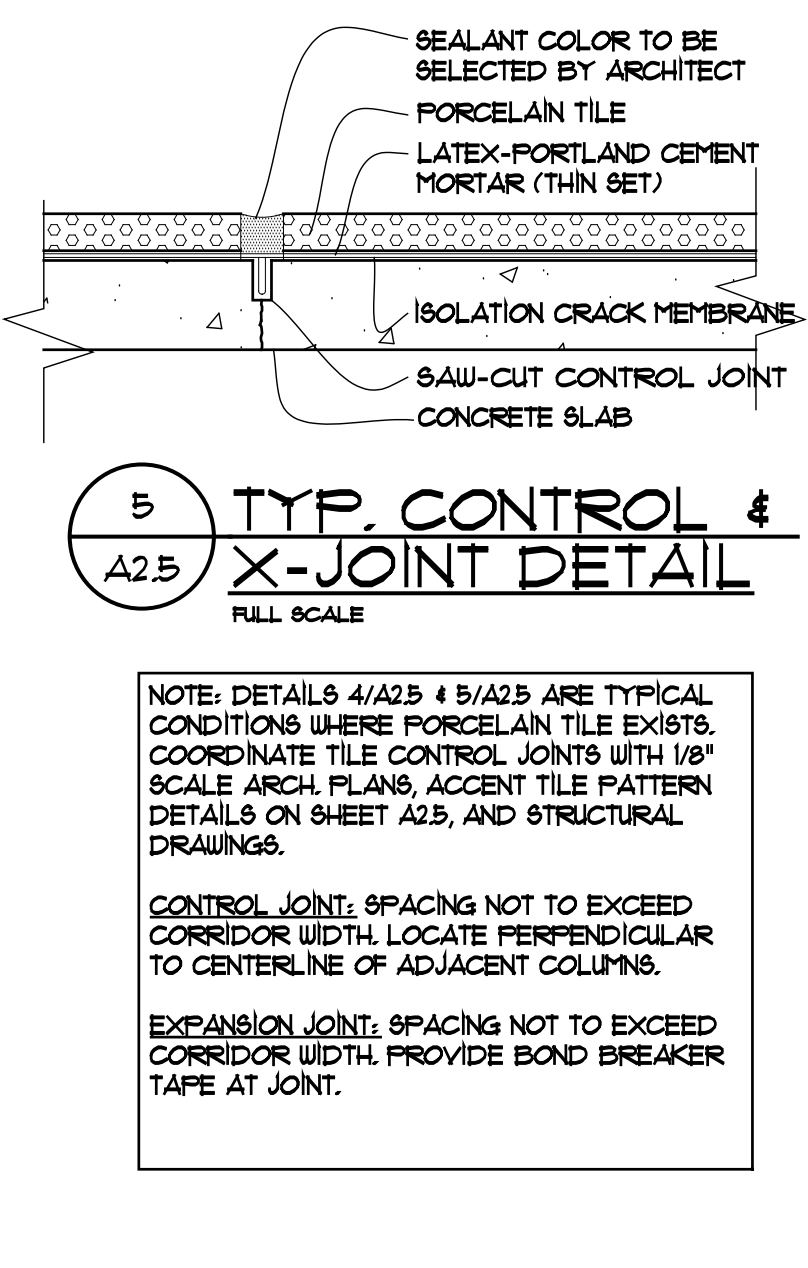
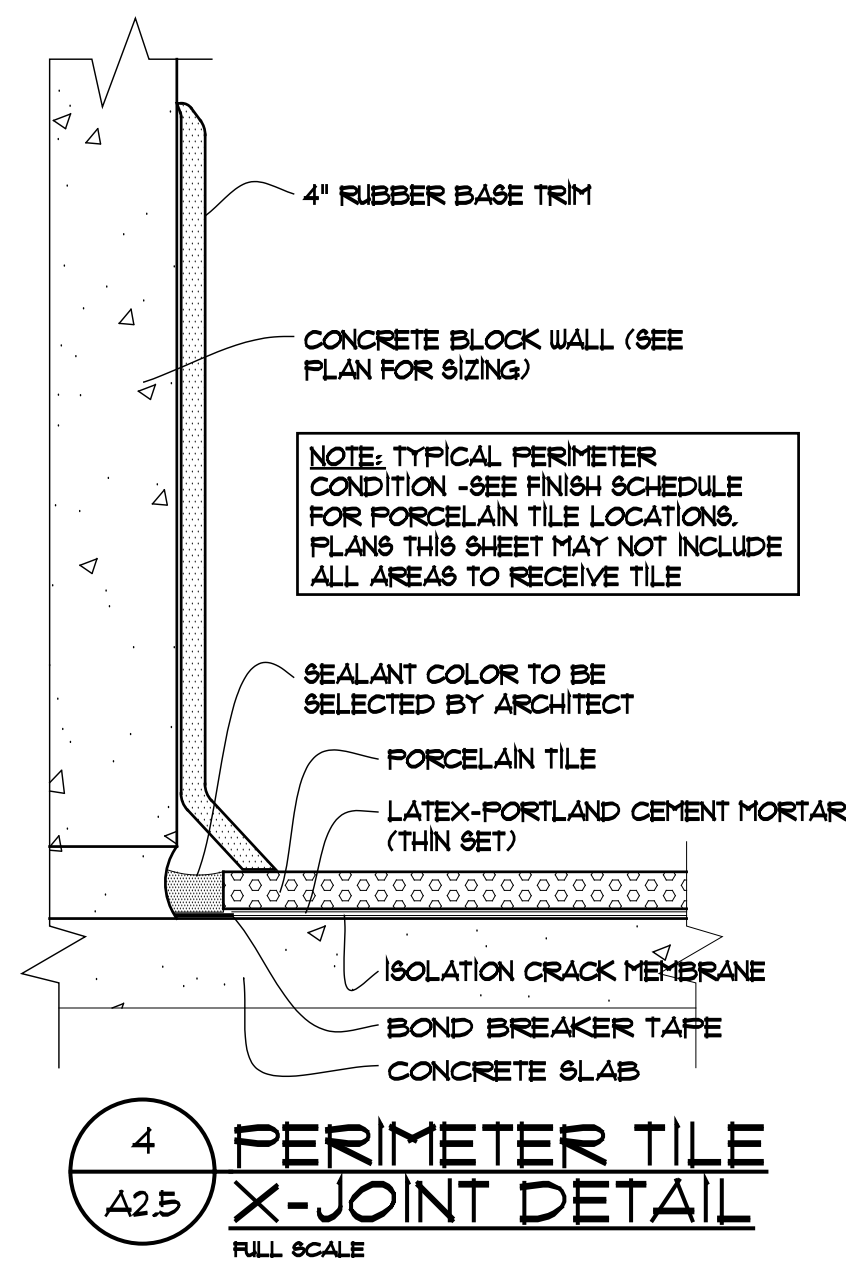


DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/13/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	

FINISH SCHEDULE					
NO.	FLOOR	BASE	WALLS	CEILING	** REMARKS
F0	EXISTING TO REMAIN (NO WORK THIS CONTRACT)	E.F.T.R. (NO WORK)	EXISTING FINISH TO REMAIN (NO WORK THIS CONTRACT)	EXISTING TO REMAIN (NO WORK THIS CONTRACT)	
F1	PORCELAIN TILE	4\"/>			
F2	CARPET	4\"/>			
F3	V.G.T.	4\"/>			
F4	V.G.T.	4\"/>			
F5	THIN-BET 2\"/>				
F6	THIN-BET 2\"/>				
F7	SEALED CONCRETE	4\"/>			
F8	EXISTING FINISH TO REMAIN (PROTECT)	E.F.T.R. 4\"/>			
F9	EXISTING FINISH TO REMAIN (PROTECT)	E.F.T.R. 4\"/>			
F10	SEALED CONCRETE	NONE	BLOCK FILL ONLY. NO PAINT (PREP WALLS THRU-OUT)	NONE (EXPOSED TO STRUCTURE)	UNFINISHED (FUTURE SPACE) AT 3RD LEVEL. ADDITION - SEE MECH, ELEC. & PLUMBING
F11	CARPET IN FINAL PHASE	4\"/>			
F12	EXISTING FINISH TO REMAIN (PROTECT)	E.F.T.R. (PROTECT)	EXISTING FINISH TO REMAIN (PROTECT)	2\"/>	

- FINISH SCHEDULE LEGEND**
- E.F.T.R. - EXISTING FINISH TO REMAIN LA - IF APPLICABLE (COORD. SCOPE OF WORK)
- V.G.T. - CERAMIC TILE
- V.C.T. - VNTL. COMPOSITION TILE
- FINISH SCHEDULE NOTES:**
- \*\* NOTES (REMARKS) ARE REFERENCED TO SPECIFIC AREAS FOR CONVENIENCE, BUT MAY APPLY TO THE SAME GENERAL CONDITION WHEREVER IT IS FOUND. THESE NOTES APPLY TO ALL DRAWINGS AND FINISH TYPES.
- WHERE AREAS HAVE EXPOSED STRUCTURE, ALL STEEL STRUCTURE, DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE PAINTED (TYPICAL) COORD. COLORS w/ ARCHITECT.
  - WHERE SCHEDULE CALLS FOR "PAINT", PAINT ALL EXPOSED MISC. METAL STEEL, INCLUDING METAL DOORS AND FRAMES, PIPES AND CONDUIT, RAILINGS, ANGLES, CHANNELS, ETC. (TYPICAL).
  - WHERE SCHEDULE CALLS FOR NEW ACOUSTICAL LAY-IN CEILING IN AREAS WHERE EXISTING LAY-IN CEILING EXISTS REMOVE EXISTING CEILING AND GRID AND INSTALL NEW GRID AND LAY-IN CEILING. SEE ELEC. FOR LIGHT FIXTURE SCOPE.
  - PAINT INTERIOR GYP. BRD. AT CLG. FUR-DOWNS IN VESTIBULES, LOBBIES, CORRIDORS, AND STAIRS WITH FLAT PAINT, UNGL. PROVIDE FLAT LATEX PAINT WHERE CRITICAL OCCURS 2\"/>
  - ALL CEILING REQUIRING PAINTING, PAINT SHALL BE WHITE - (SEE SPECIFICATIONS SECTION 095000)
  - WHERE NEW CEILING AND GRID ARE INSTALLED, CONTRACTOR SHALL INSTALL CEILING GRID TO COMPLY WITH SEISMIC DETAILS 8/42.4 & 9/42.4.
  - AT GYP. BOARD CEILING PROVIDE DRYWALL EXPANSION JOINT FOR EVERY 50 SQUARE FEET OF CEILING. PROVIDE 1/8\"/>
  - WHERE EXISTING MATERIALS OR OBJECTS ARE REMOVED, RELOCATED OR MODIFIED, THE CONTRACTOR SHALL PATCH DAMAGED SURFACE FROM WHICH THE MATERIAL WAS REMOVED, RELOCATED OR MODIFIED TO MATCH ADJACENT MATERIAL OR FINISH.
  - WHERE EXISTING MATERIALS OR OBJECTS ARE REMOVED, RELOCATED OR MODIFIED TO MATCH ADJACENT MATERIAL OR FINISH.
  - WHERE NEW WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSTALLED, THERE SHALL BE NO SHARP OR BUMP SURFACES UNDER LAVATORIES. PER RULE 120-320-30(4) OF THE GEORGIA ACCESSIBILITY CODE.
  - OBJECTS PROJECTING FROM WALLS, FREESTANDING OVERHEAD, OVERHANGING OBJECTS, AND OBJECTS MOUNTED ON POSTS AND PTLONS SHALL BE INSTALLED IN COMPLIANCE WITH RULE 120-3-20-15 OF THE GEORGIA ACCESSIBILITY CODE.
  - SEE CIVIL DRAWINGS FOR ALL WALKS, PLAZAS, AND DRIVES.
- CLG. TYPES**
- TYPE I - STANDARD FIGURED, SQUARE EDGE
- NOTE: SEE 8/42.4 & 9/42.4 FOR TYP. ACOUSTICAL SEISMIC CEILING RESTRANT DETAILS
- EGL FOR CLG. TILE PATCHING, CONSULT ARCH FOR MATCHING.

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	1
01/28/22	CONFORMED SET	



FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
EAST ADDITION  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR: GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE: MARCH 1, 2022  
SHEET: 08 US SHL-D-20-21  
REV. BY: MTT, AP  
REV. BY: JR, P, MT

**A2.5**

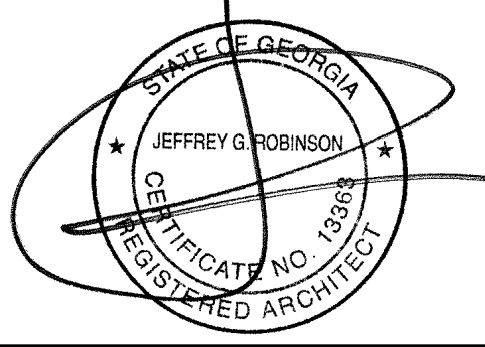
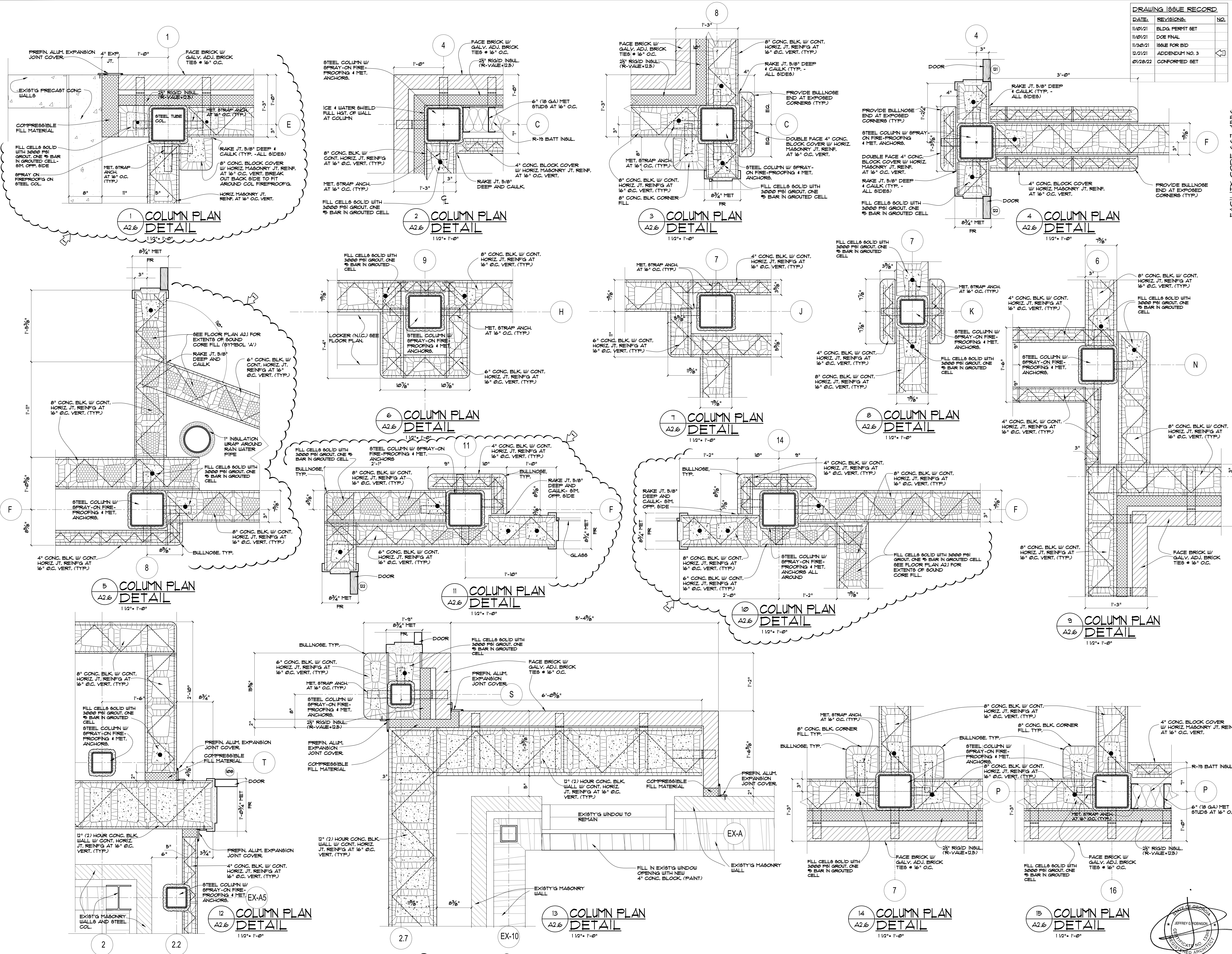
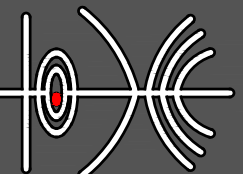
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1/30/21	ISSUE FOR BID	
12/1/21	ADDENDUM NO. 3	
01/28/22	CONFORMED SET	

FACILITY CODE 667-4556

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR: GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

cunningham, forehand, matthews & moore, architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152





DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/31/21	ADDENDUM NO. 4	1
01/28/22	CONFORMED SET	

FACILITY CODE 667-4556

NORTH GWINNETT HIGH SCHOOL

EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024

FOR: BOARD OF EDUCATION

GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021

DESIGN: MATHIAS

BY: JR, TMT

NO. 15: 341-D01-21

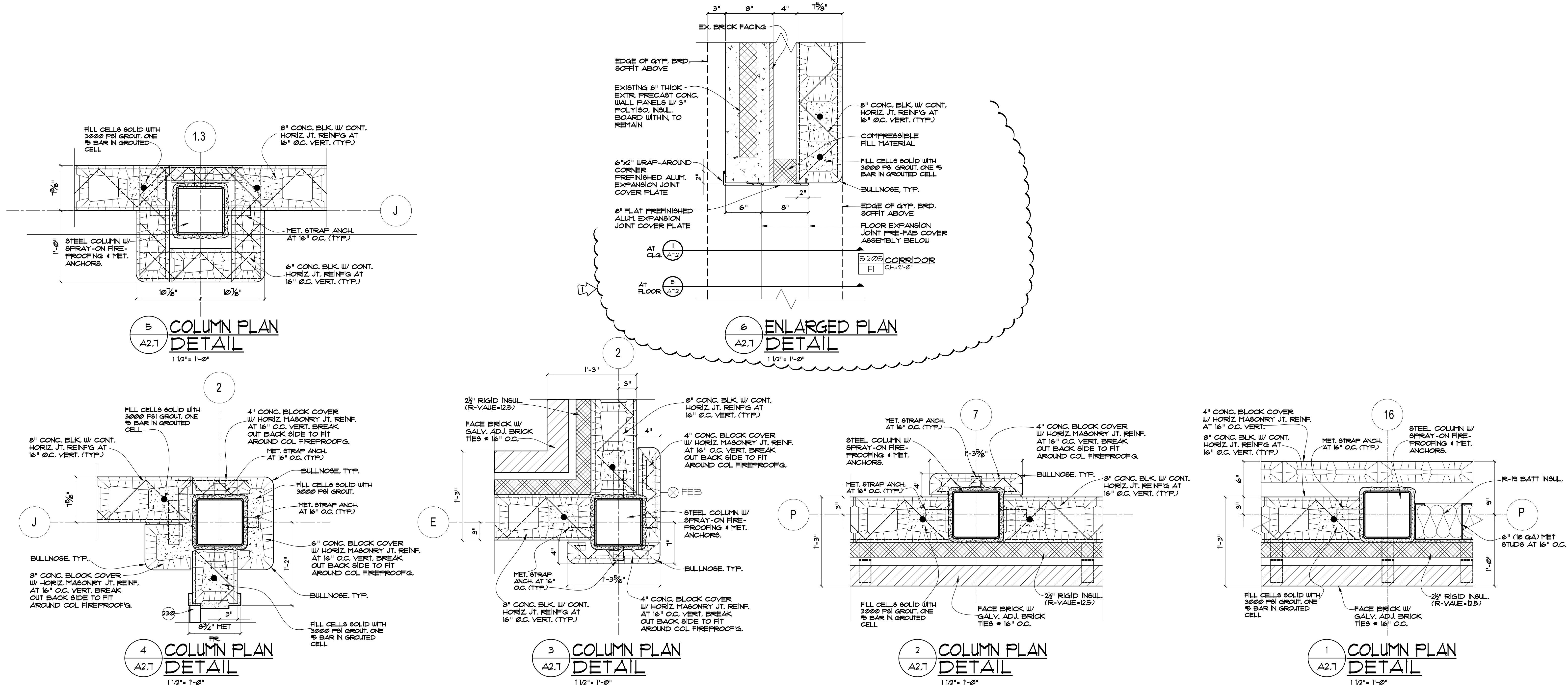
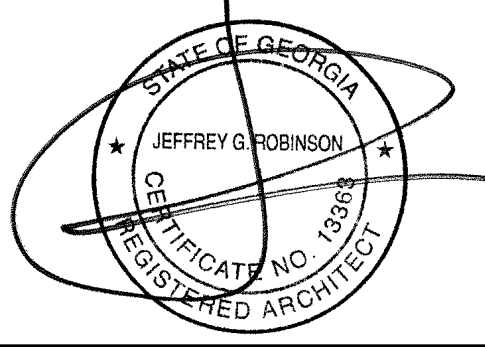
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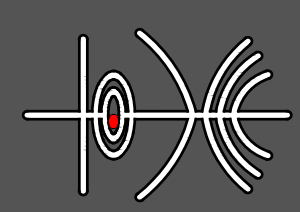
PROJECT NO. 2011-001

PHONE: (404) 873-2152

ADDRESS: 2011 MANCHESTER STREET, N.E., ATLANTA, GEORGIA 30324

cunningham forehand matthews moore





**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

**A3.1**

DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/13/21	ISSUE FOR BID	
2/28/22	CONFORMED SET	

FACILITY CODE 667-4556

DATE: MARCH 1, 2021

BY: MATH AP

CHK BY: JR. PMT

APP. BY: JR. PMT

DATE: MARCH 1, 2021

BY: MATH AP

CHK BY: JR. PMT

APP. BY: JR. PMT

DATE: MARCH 1, 2021

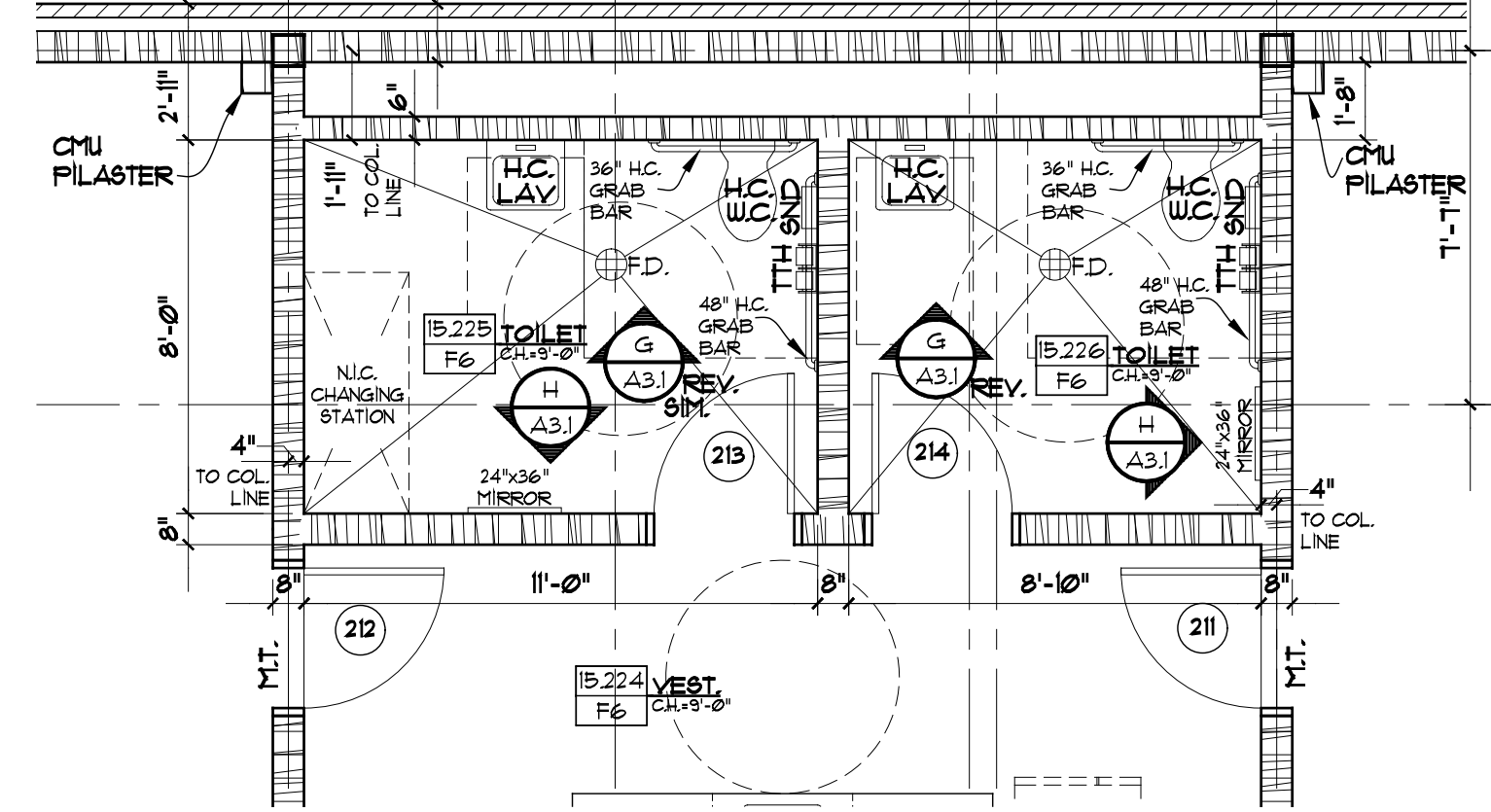
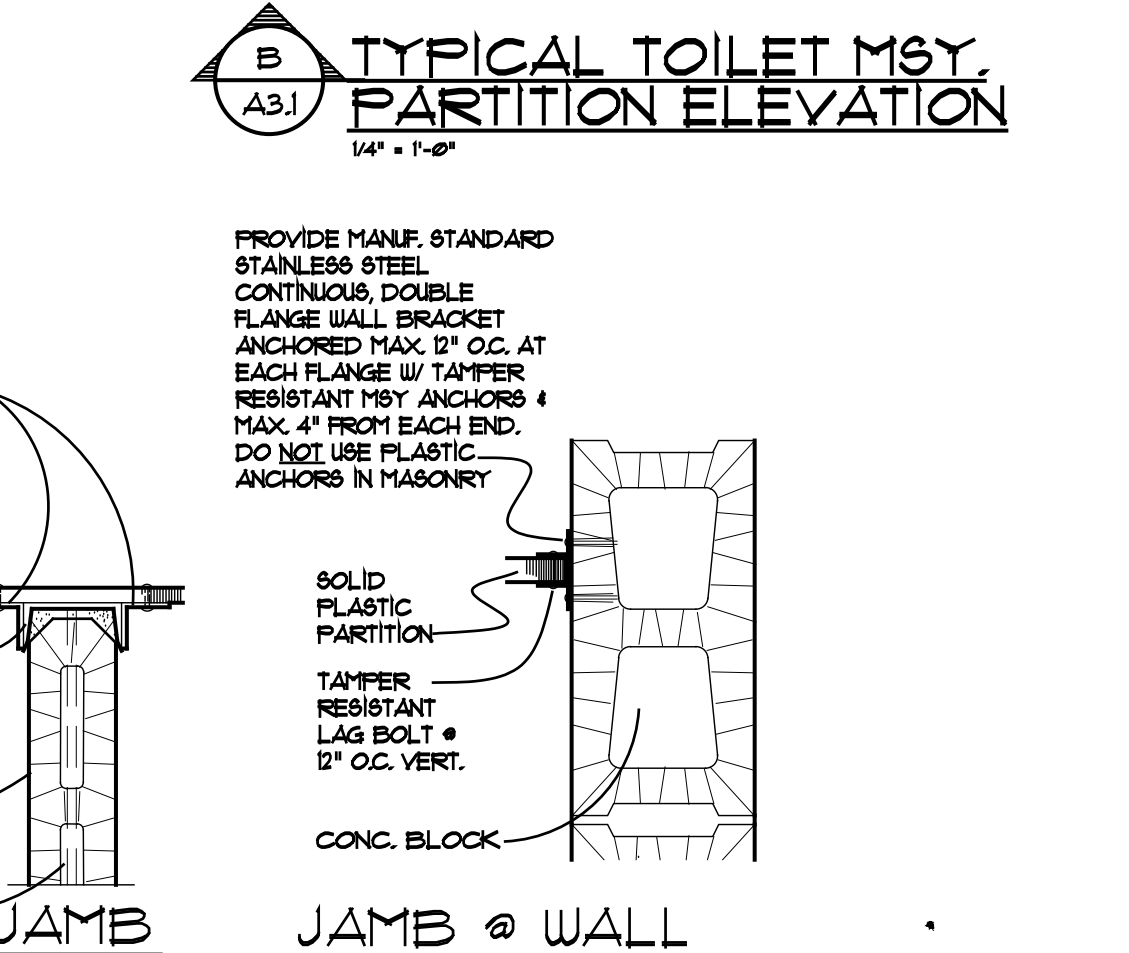
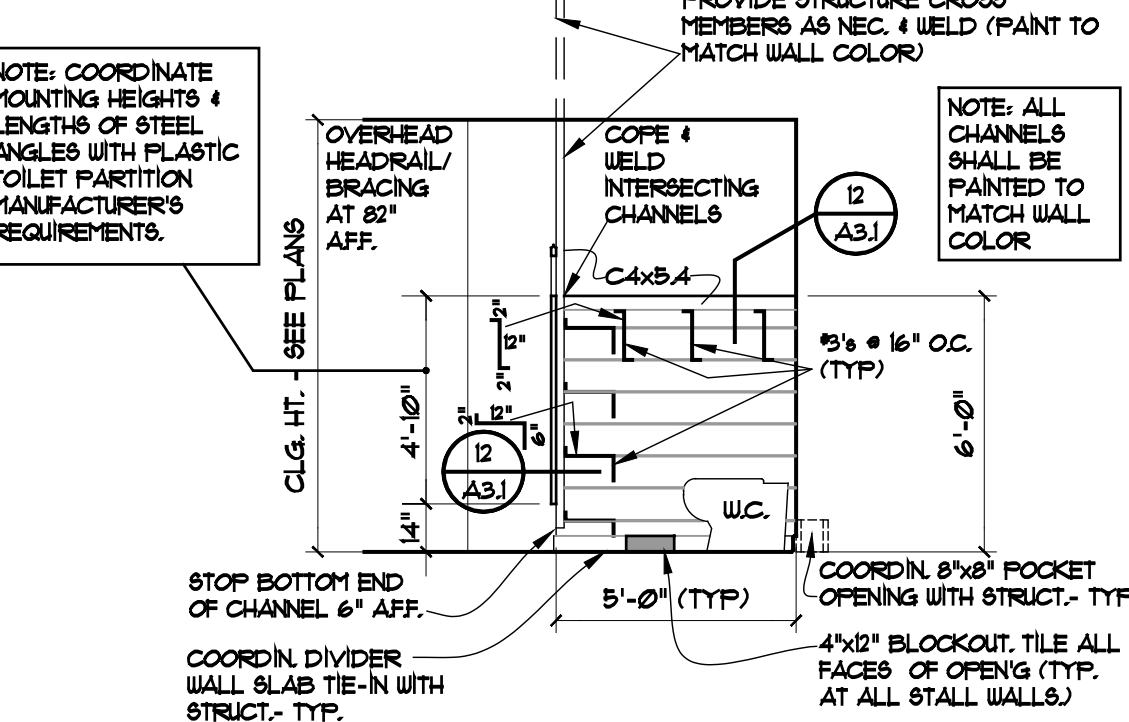
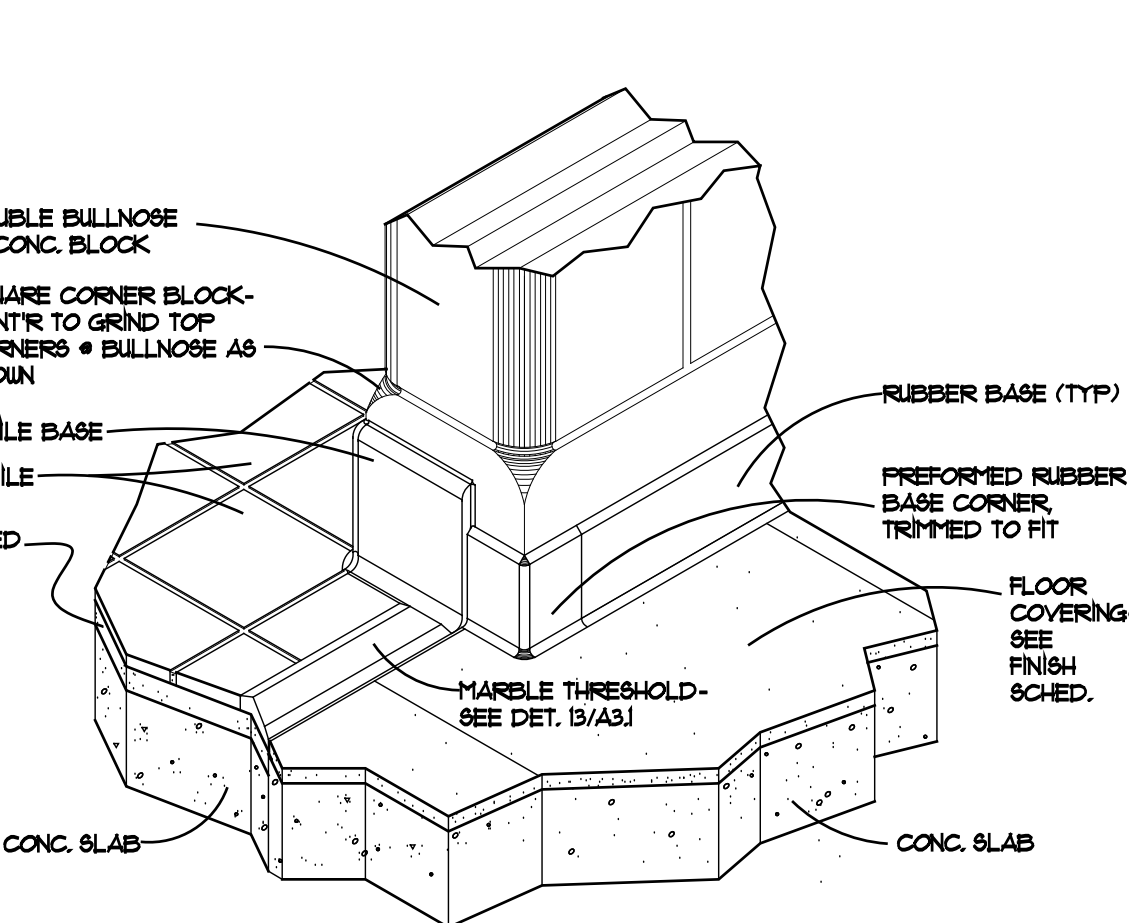
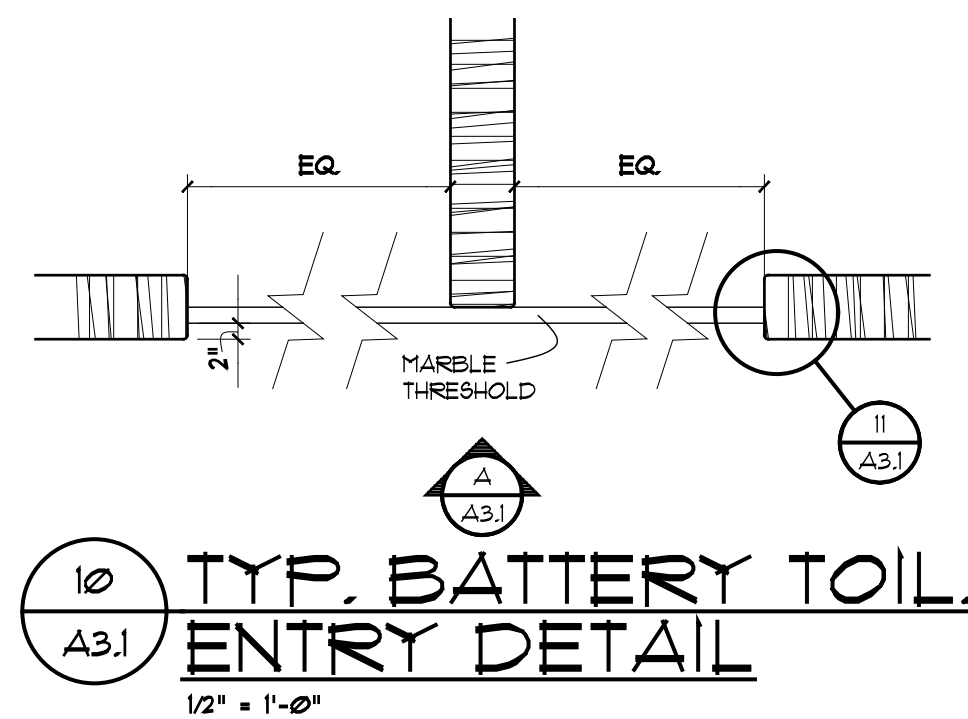
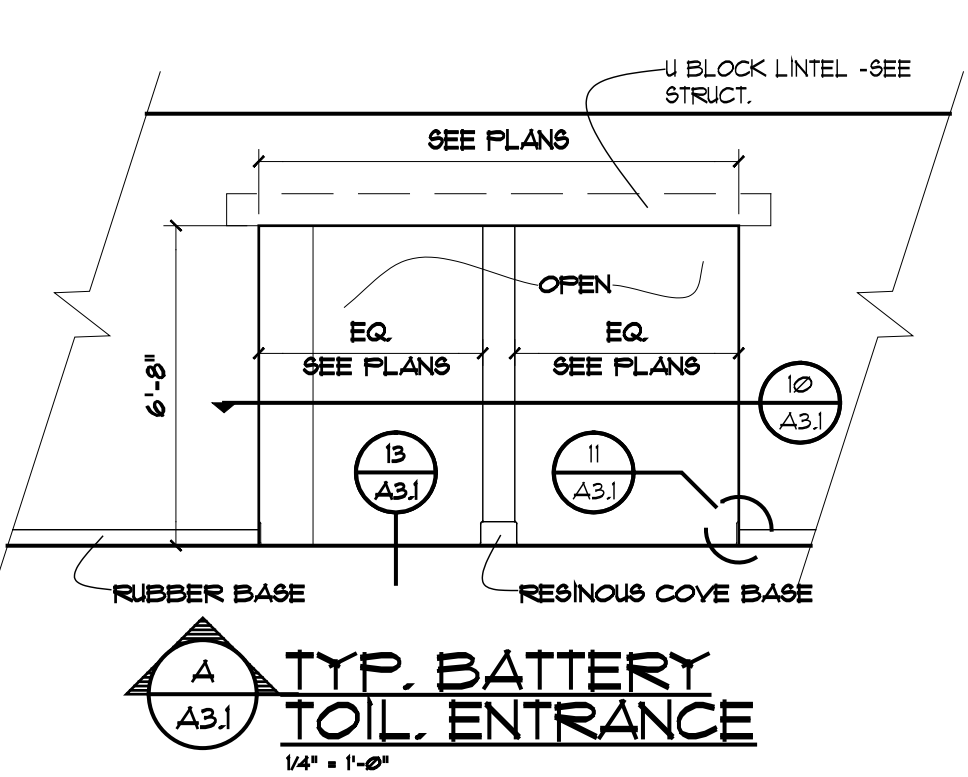
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APP. BY: JR. PMT

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BY: MATH AP

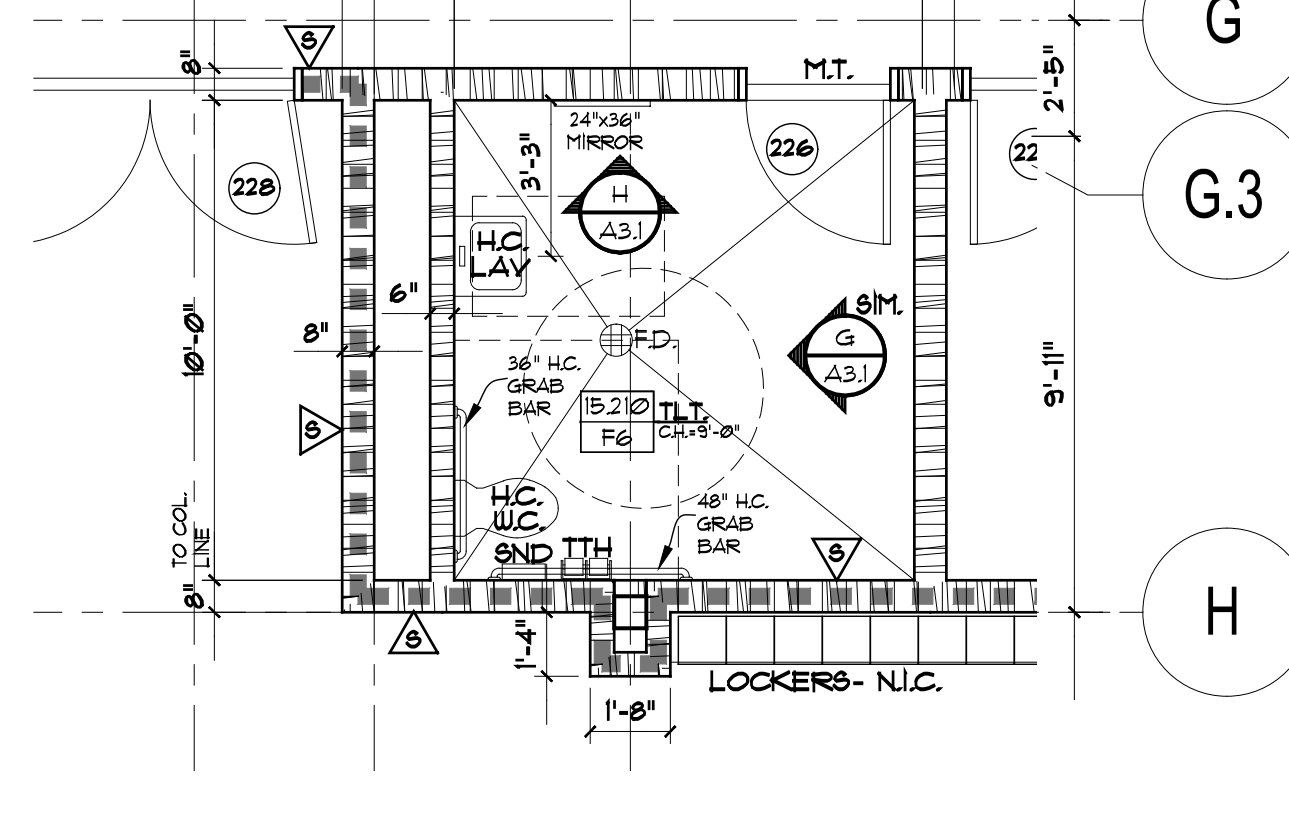


**5 SPL. ED. TOILETS 15225 & 15226**  
 A3.1 14'-11 1/2\"/>

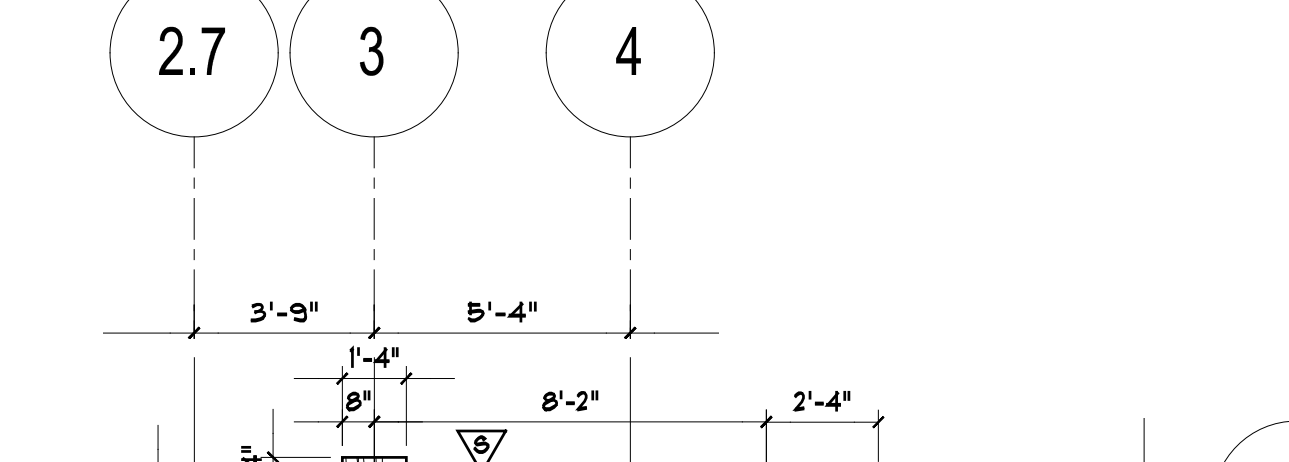
- LEGEND**
- LAV. — LAVATORY
  - HD. — HAND DRYER
  - WC. — WATER CLOSET
  - T.T.H. — TOILET TISSUE HOLDER (N.C.)
  - S.N.D. — SANITARY NAPKIN DISPOSAL (COORDINATE TO NOT CONFLICT W/ GRAB BARS, TOILET TISSUE HOLDER, OR DOOR SWING - N.C.)
  - P.T.D. — PAPER TOWEL DISPENSER (N.C.)
  - H.B. — HOSE BIBBS
  - F.E.C. — FIRE EXTINGUISHER CABINET
  - H.W.H. — HOT WATER HEATER (SEE PLUMB)
  - H.C. — HANDICAPPED
  - G.B. — GRAB BARS
  - F.D. — FLOOR DRAIN
  - M.S. — MOP STRIP
  - M.B. — MOP BASIN
  - S.D. — SOAP DISPENSER (N.C.)
  - H.R.W. — HOUR RATED WALL - SEALED TO DECK
  - S.W. — SPOKE WALL - EXTEND TO DECK

**NOTES:**

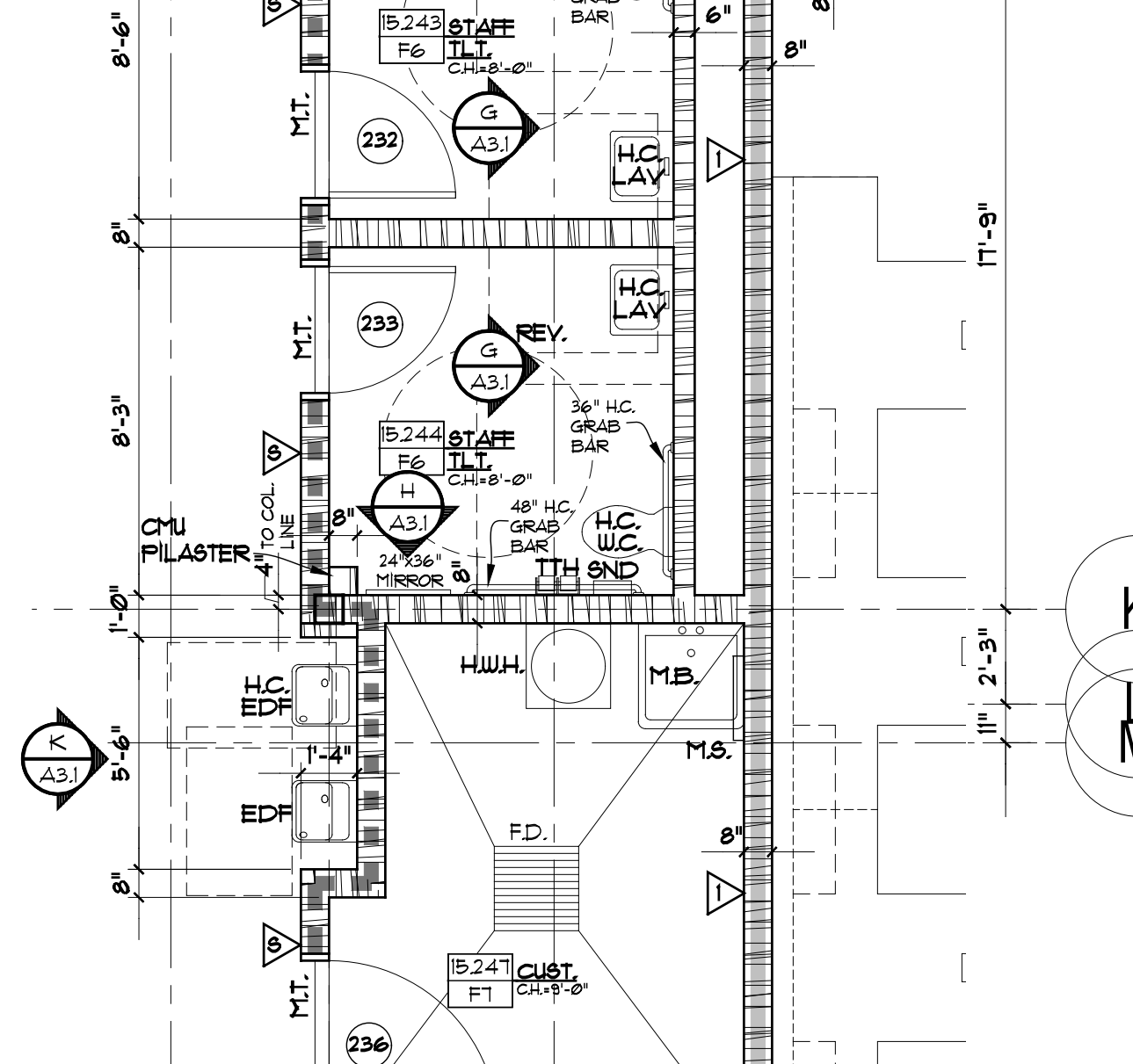
- CONTRACTOR TO COORDINATE ALL TOILET ROOM FLOORS WITH FLOOR DRAINS. FLOORS SHALL HAVE A POSITIVE SLOPE TO DRAINS. TOILETS WITH FLOOR DRAINS SHALL HAVE CONC. SLAB DEPRESSIONS FOR TILE SETTING BED.
- CAULK TOP OF ALL CERAMIC & QUARRY TILE BASES PRIOR TO PAINTING.
- WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR COVERED. NO SHARP OR ABRASIVE SURFACES SHALL BE PERMITTED UNDER LAVATORIES.
- AT ALL STUDENT TOILETS, HANDICAP GRAB BARS SHALL BE 1-1/4\"/>



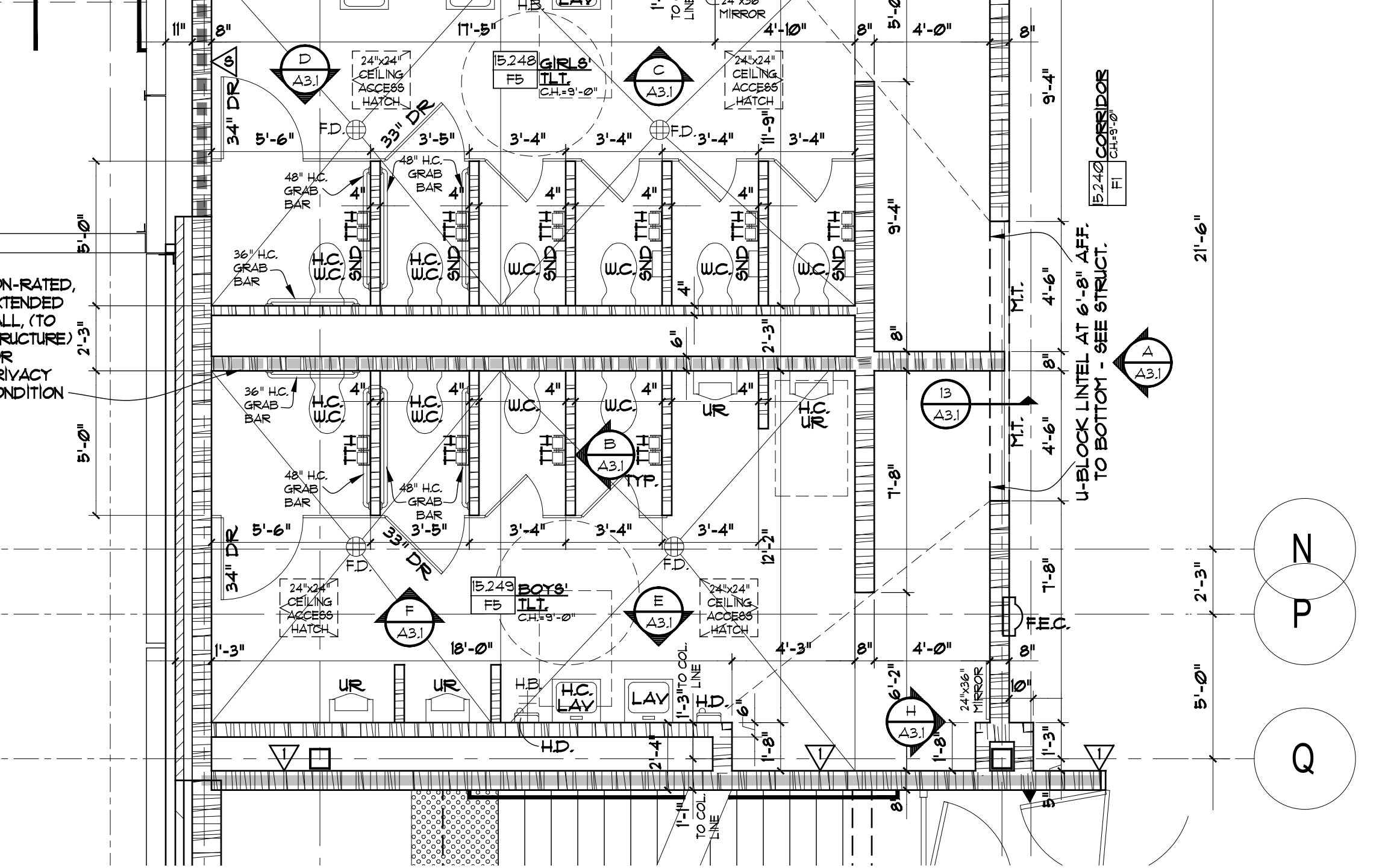
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 A3.1 14'-11 1/2\"/>



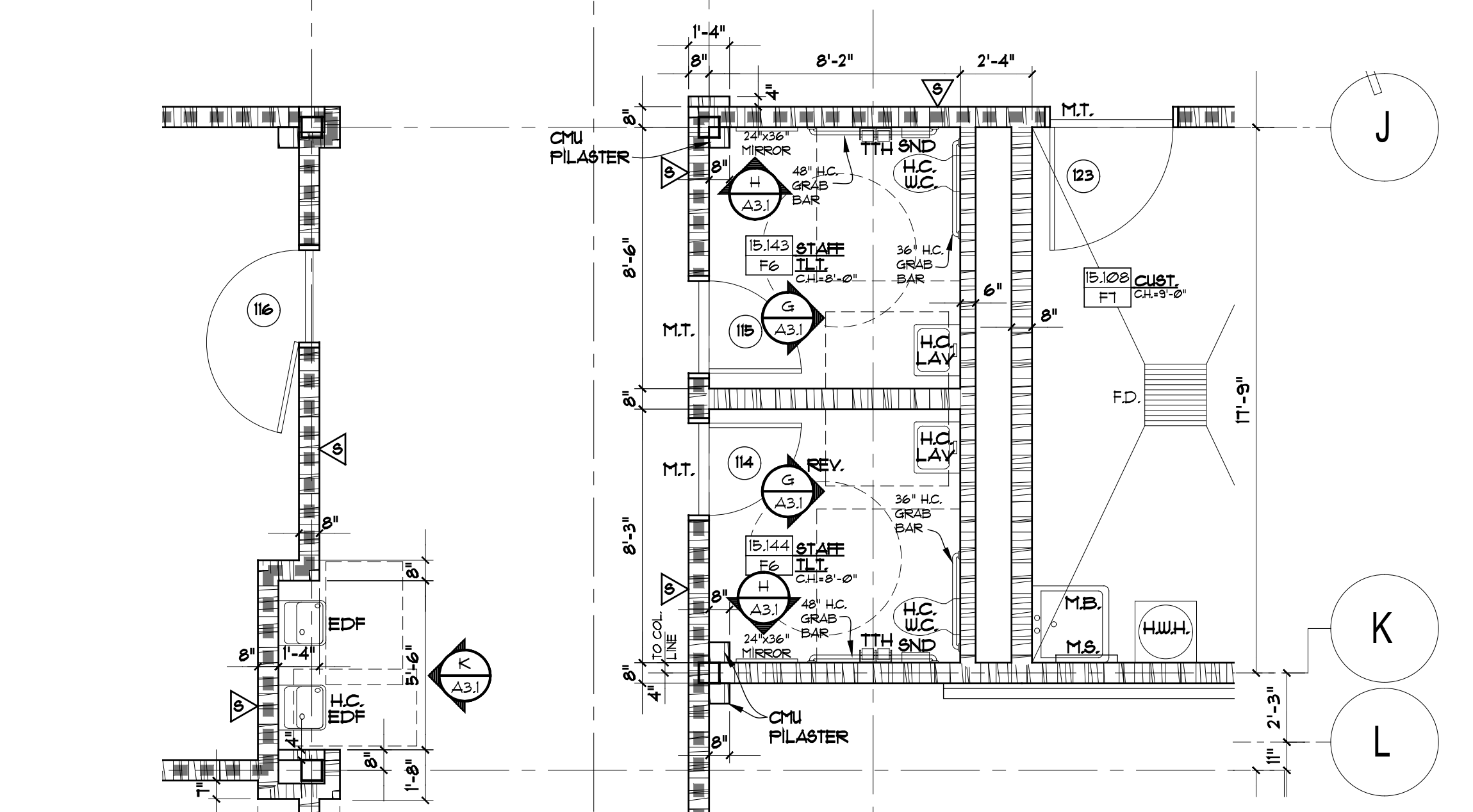
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 A3.1 14'-11 1/2\"/>



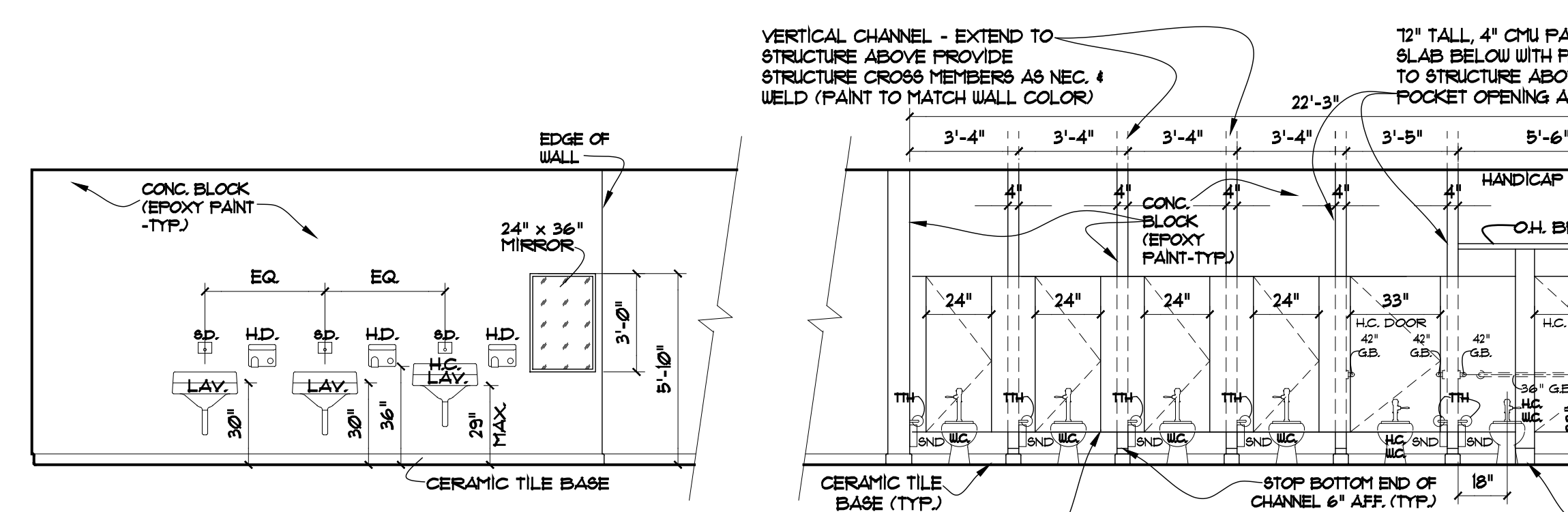
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 A3.1 14'-11 1/2\"/>



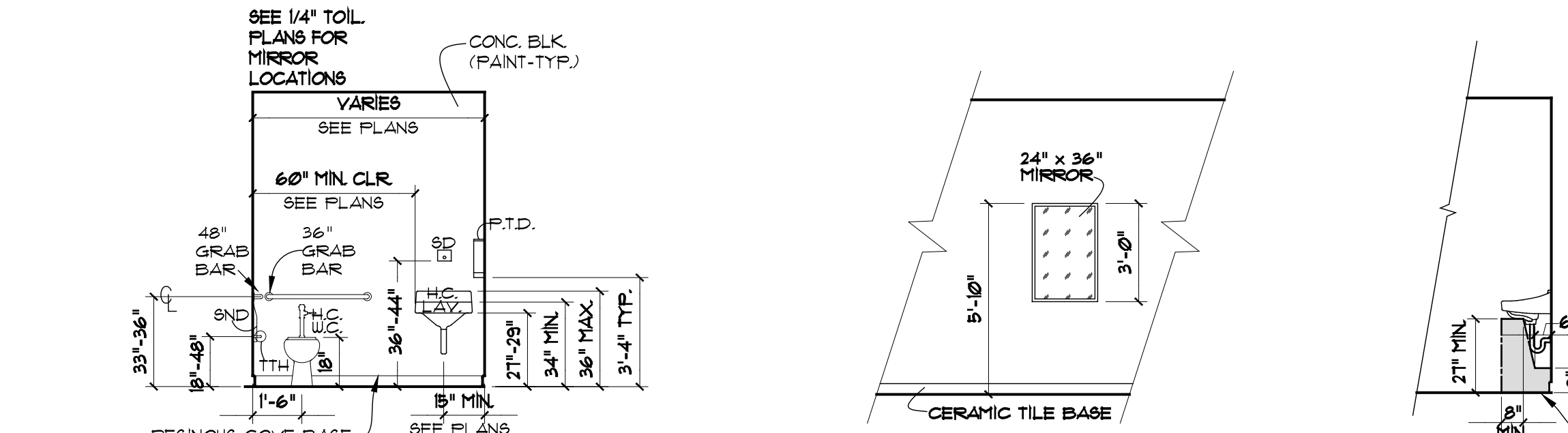
**1 GIRLS' 15248 & BOYS' 15249**  
 A3.1 14'-11 1/2\"/>



**2 STAFF TOILETS 15143 & 15144**  
 A3.1 14'-11 1/2\"/>



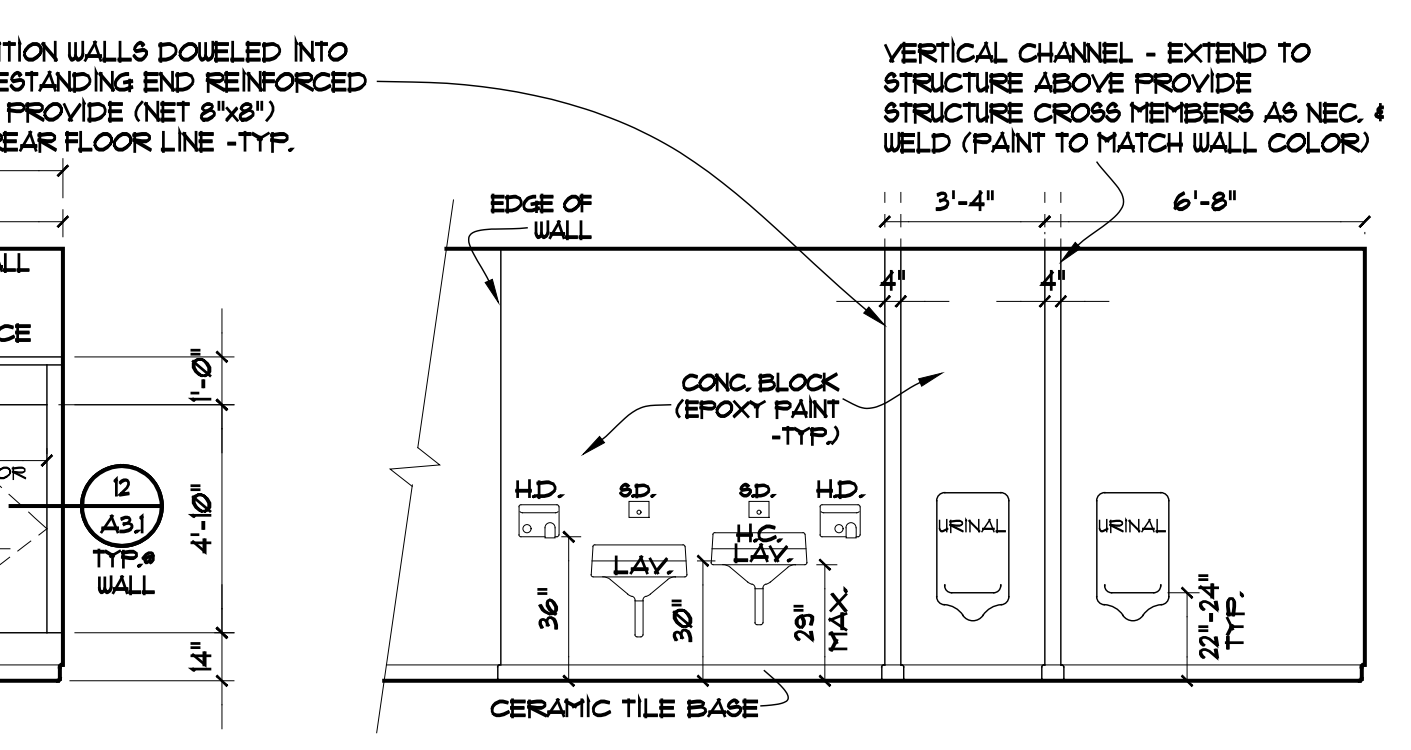
**C GIRLS' TOIL. 15248**  
 A3.1 14'-11 1/2\"/>



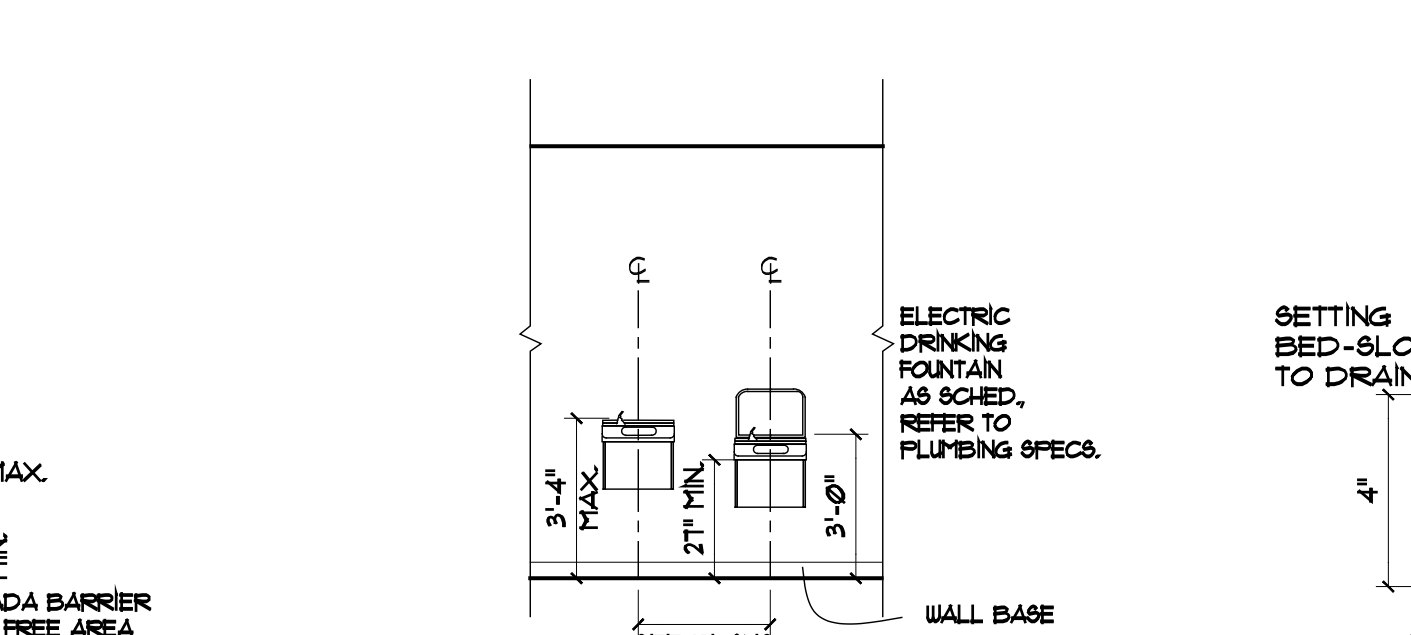
**G TYP. INDIVIDUAL TOIL.**  
 A3.1 14'-11 1/2\"/>



**H MIRROR ELEV.**  
 A3.1 14'-11 1/2\"/>



**E BOYS' TOIL. 15249**  
 A3.1 14'-11 1/2\"/>



**J TYP. LAV. PROFILE**  
 A3.1 14'-11 1/2\"/>



**K TYP. ELEV. @ ELEC. DRINK FOUNTAINS**  
 A3.1 14'-11 1/2\"/>

NOTE: COORDINATE ALL CEILING ACCESS PANELS W/ MECH. DUGS. 1/8\"/>

VERTICAL CHANNEL - EXTEND TO STRUCTURE ABOVE PROVIDE STRUCTURE CROSS MEMBERS AS NEC. & WELD (PAINT TO MATCH WALL COLOR)

72\"/>

VERTICAL CHANNEL - EXTEND TO STRUCTURE ABOVE PROVIDE STRUCTURE CROSS MEMBERS AS NEC. & WELD (PAINT TO MATCH WALL COLOR)

12\"/>

NOTE: COORDINATE MOUNTING HEIGHTS & LENGTHS OF STEEL ANGLES WITH PLASTIC TOILET PARTITION MANUFACTURER'S REQUIREMENTS.

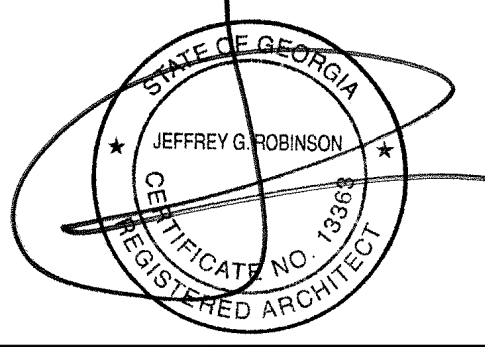
CONT. ANGLE EA. SIDE OF CHANNEL - WELD TO CHANNEL. SECURE ANGLES TO PART. W/ TAMPERS PROOF BOLTS AT 2\"/>

NOTE: COORDINATE MOUNTING HEIGHTS & LENGTHS OF STEEL ANGLES WITH PLASTIC TOILET PARTITION MANUFACTURER'S REQUIREMENTS.

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DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/20/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
01/28/22	CONFORMED SET	

FACILITY CODE 667-4556

NORTH GWINNETT HIGH SCHOOL

EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024

FOR: GUINNETT COUNTY BOARD OF EDUCATION

GUINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021

ISS. NO. SH-120-21

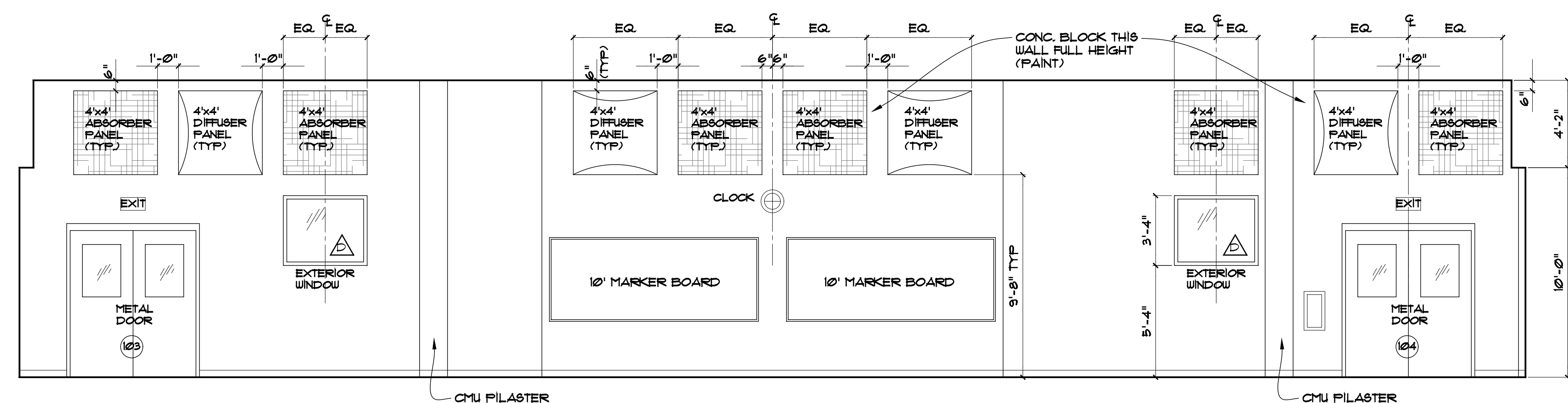
DES. BY: MUM, AP

CR. BY: JR, PLM

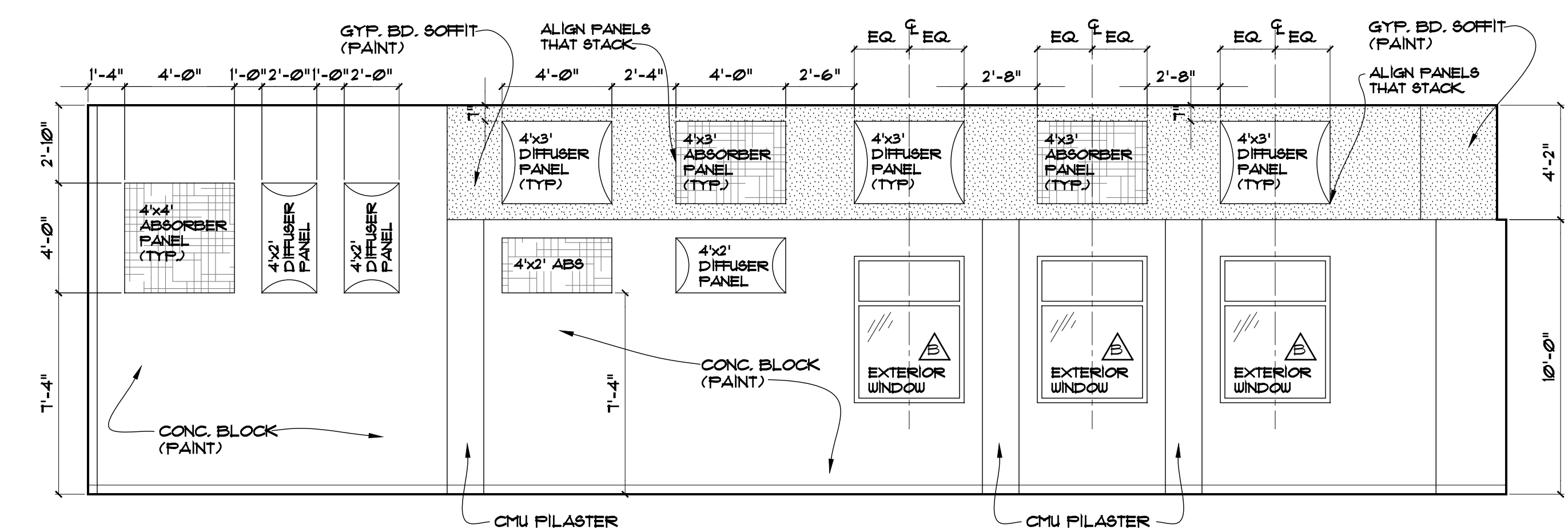
**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

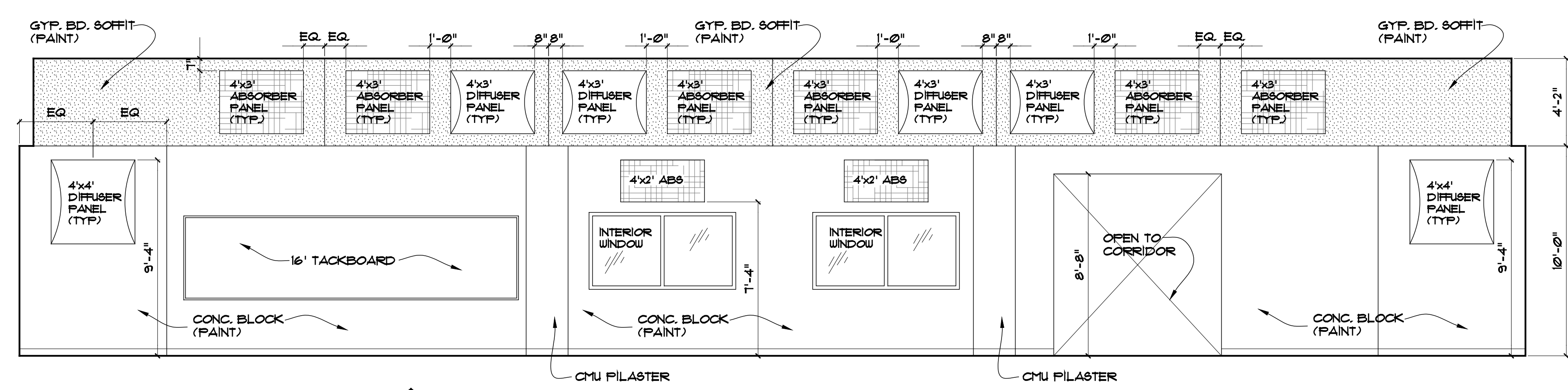
A3.2



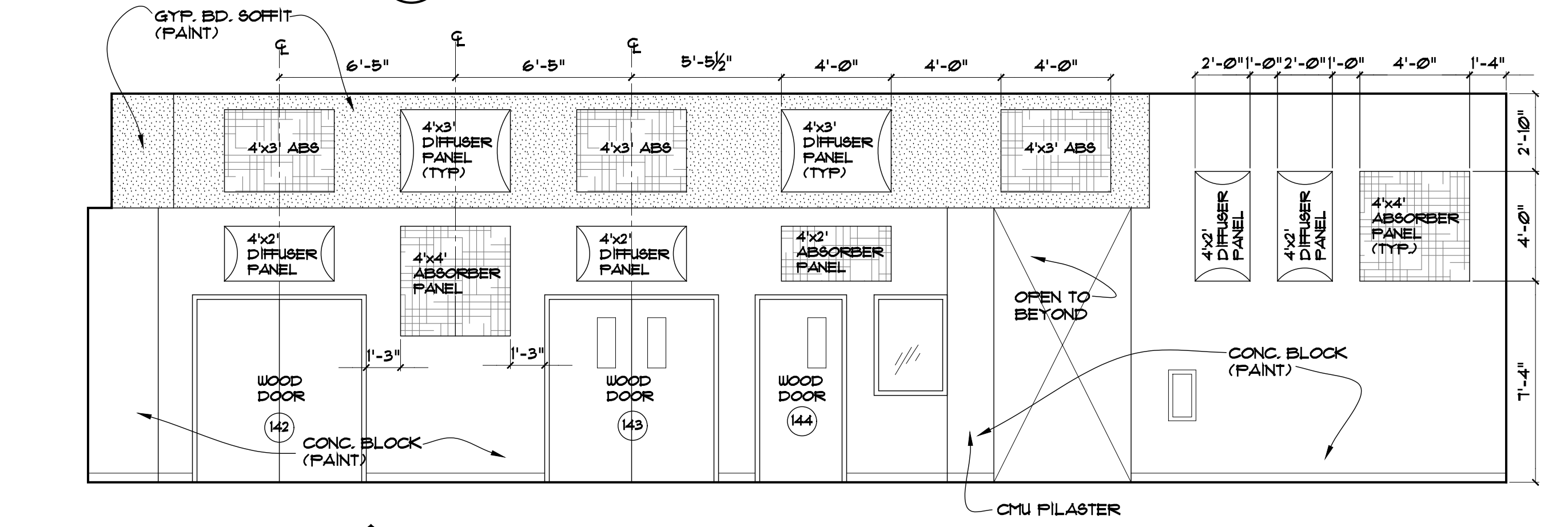
**C WALL ELEVATION @ BAND ROOM 15.123**  
A3.2 1/4" = 1'-0"



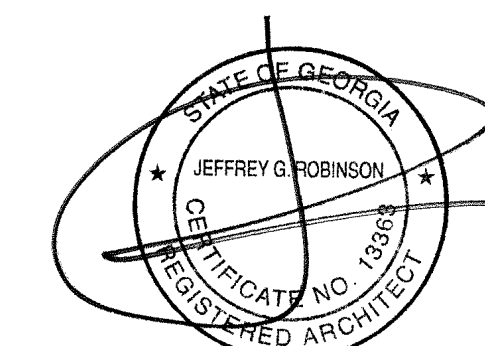
**D WALL ELEVATION @ BAND ROOM 15.123**  
A3.2 1/4" = 1'-0"



**A WALL ELEVATION @ BAND ROOM 15.123**  
A3.2 1/4" = 1'-0"



**B WALL ELEVATION @ BAND ROOM 15.123**  
A3.2 1/4" = 1'-0"

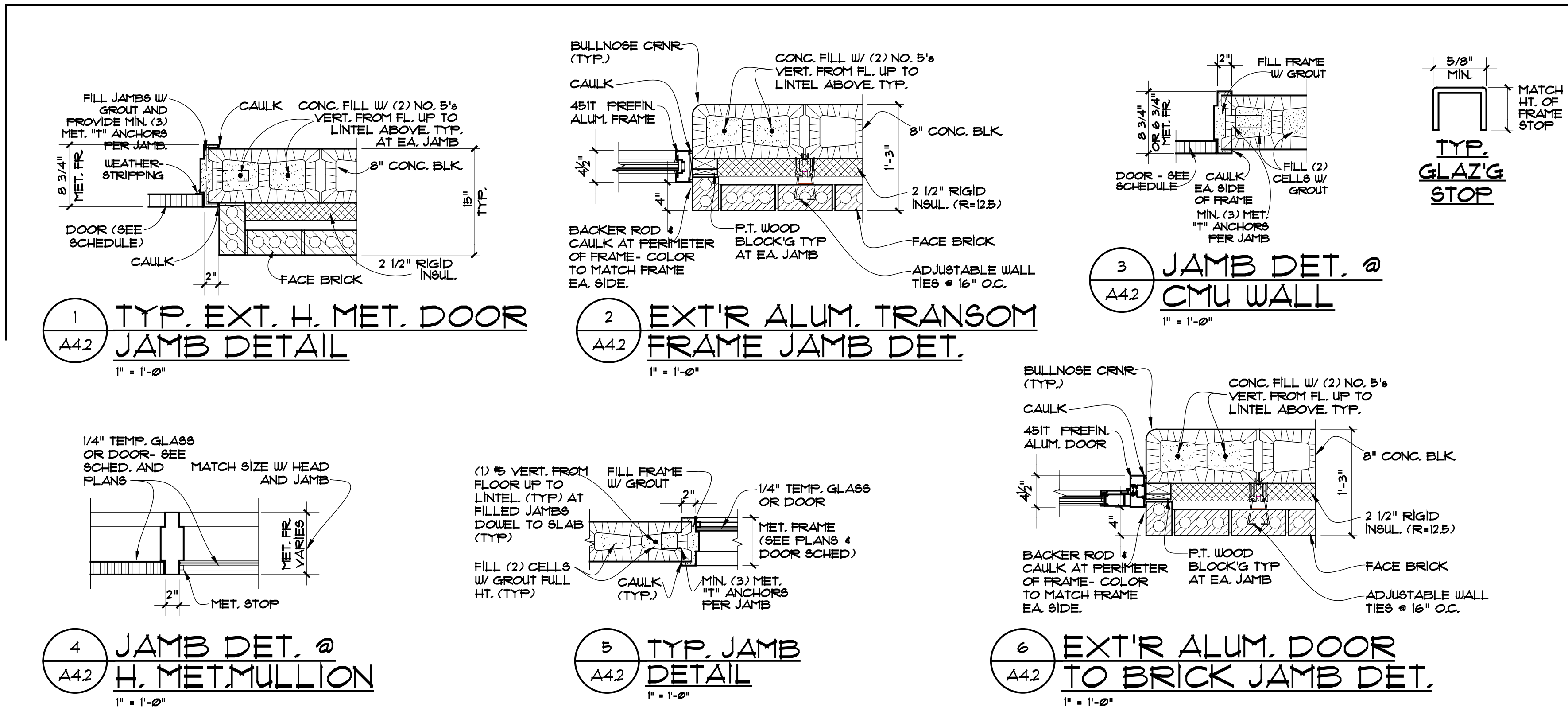


DOOR SCHEDULE											
DOOR			LABEL DOOR & FRAME			FRAME			THRESH-HOLD	WEATHER-STRIPPING	REMARKS
NO	TYPE	SIZE	MATL	GLASS	SIZE	MATL	DETAILS	THRESH-HOLD	WEATHER-STRIPPING	REMARKS	
<b>MAIN LEVEL DOORS (THREE STORY ADDITION)</b>											
101	F	FR 3'-0" x 7'-0" x 1 3/4"	ALUM.	HALF	4 1/2"	ALUM.	6/A42, 3/A43, 8/A43	ALUM.	YES	R, X, P, T	
102	F	FR 3'-0" x 7'-0" x 1 3/4"	ALUM.	HALF	4 1/2"	ALUM.	6/A42, 3/A43, 8/A43	ALUM.	YES	R, X, AC, ARS, YES, F, P, T	
103	E	FR 3'-0" x 7'-0" x 1 3/4"	METAL	18 x 21	8 3/4"	METAL	1/A42, 1/A42, 1/A42	ALUM.	YES	X, R, P, ACP, 4" HEAD	
104	E	FR 3'-0" x 7'-0" x 1 3/4"	METAL	18 x 21	8 3/4"	METAL	1/A42, 1/A42, 1/A42	ALUM.	YES	X, R, P, ACP, 4" HEAD	
105	E	FR 3'-0" x 7'-0" x 1 3/4"	METAL	18 x 21	8 3/4"	METAL	1/A42, 1/A42, 1/A42	ALUM.	YES	X, R, P, 4" HEAD	
106	E	FR 3'-0" x 7'-0" x 1 3/4"	METAL	18 x 21	8 3/4"	METAL	1/A42, 1/A42, 1/A42	ALUM.	YES	X, R, P, ACP, 4" HEAD	
107	E	FR 3'-0" x 7'-0" x 1 3/4"	METAL	18 x 21	8 3/4"	METAL	1/A42, 1/A42, 1/A42	ALUM.	YES	X, R, P, ACP, 4" HEAD	
108	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	6 x 23	15' 60 MIN	12 3/4"	3/A42, 3/A42, 9/A42	EX. FRAME TO REMAIN		X, M, (2" CHU WALL)	
109	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	6 x 23	15' 90 MIN	12 3/4"	3/A42, 3/A42, 9/A42	EX. FRAME TO REMAIN		X, (REVERSE SWING)	
110	B	FR 3'-0" x 7'-0" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	6 3/4"	3/A42, 9/A42	EX. FRAME TO REMAIN		X, M (EX. RU)	
111	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	6 3/4"	3/A42, 9/A42			X, M	
111A	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	6 3/4"	3/A42, 9/A42			X, M	
112	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
113	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
114	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
115	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
116	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
117	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42			X, M	
118	C	3'-0" x 6'-8" x 1 3/4"	WOOD	16 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
119	C	3'-0" x 6'-8" x 1 3/4"	WOOD	16 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
120	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
121	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
122	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
123	A	4'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
124	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
125	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
126	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
127	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
128	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
129	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
130	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
131	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
132	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
133	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
134	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
135	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
136	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
137	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42			X, M	
138	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
139	A	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE		X, R, S, DG	
140	A	3'-6" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 20/A42	C.S.		S, DG	
141	B	3'-6" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42			S, DG	
142	A	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 20/A42	C.S.		S, DG	
143	A	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 20/A42	C.S.		S, DG	
144	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42			S, DG	
145	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42			S, DG	
146	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42			S, DG	

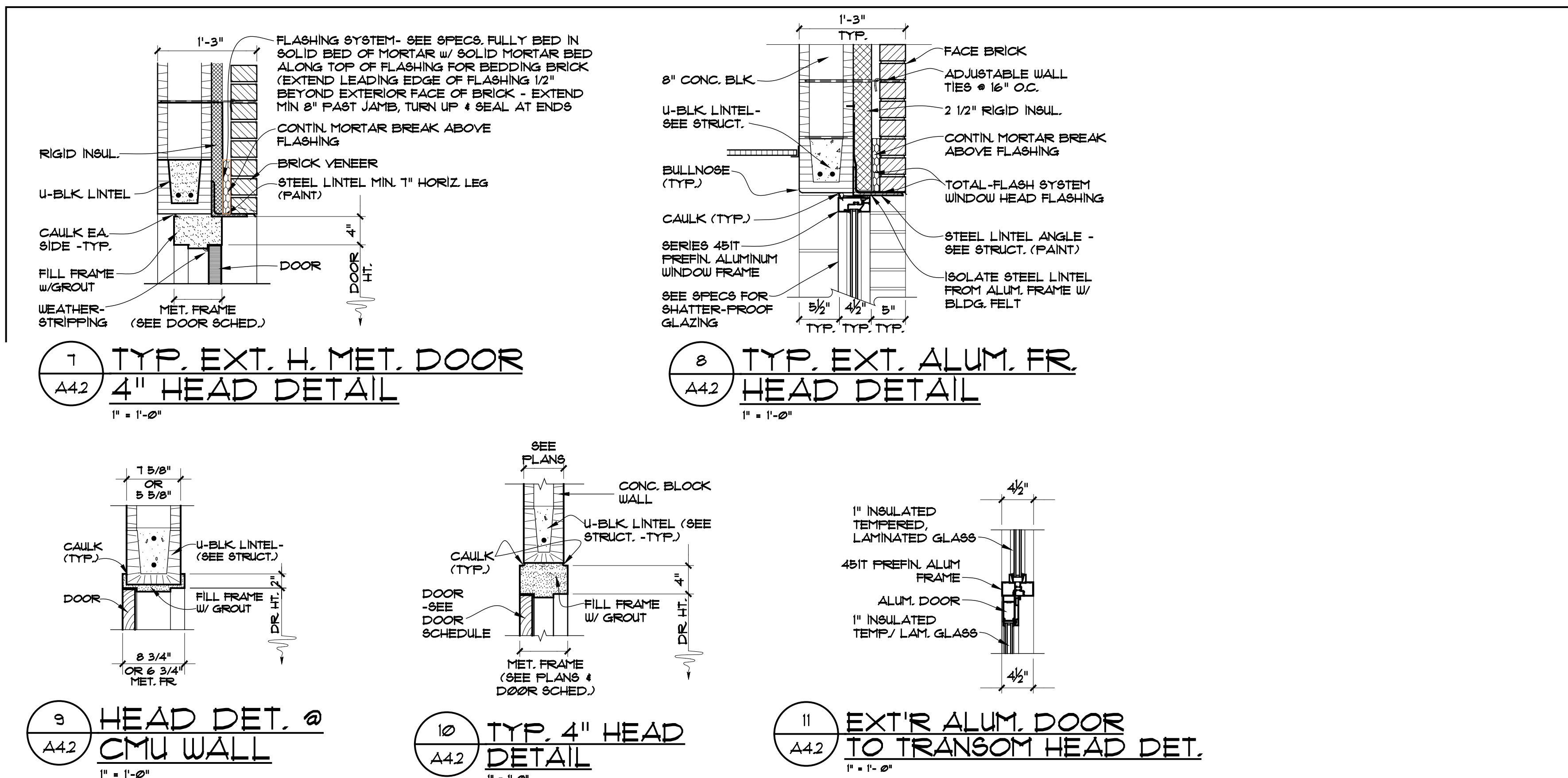
DOOR SCHEDULE											
DOOR			LABEL DOOR & FRAME			FRAME			THRESH-HOLD	WEATHER-STRIPPING	REMARKS
NO	TYPE	SIZE	MATL	GLASS	SIZE	MATL	DETAILS	THRESH-HOLD	WEATHER-STRIPPING	REMARKS	
<b>MAIN LEVEL EX. DOORS (EXISTING BUILDING RENOV. AREAS)</b>											
101	A	FR 3'-0" x 6'-8" x 1 3/4"	WOOD							REMOVE DOORS, INST. NEW WOOD DOORS 109- SEE DEMO 4 PHASING (TEMP. EGRESS CONDITION)	
102	--	3'-0" x 6'-8" x 1 3/4"	METAL							TEMPORARY EXIT HARDWARE DEVICE, ALUM. TRANSITION STRIP	
103	--	3'-0" x 6'-8" x 1 3/4"	METAL							TEMPORARY MAINTENANCE GATE IN WIRE MESH PARTITION (SEE SPEC'S). (PROVIDE EXIT HARDWARE DEVICE)	
104	--	3'-0" x 6'-8" x 1 3/4"	METAL							TEMPORARY MAINTENANCE GATE IN WIRE MESH PARTITION (SEE SPEC'S). (PROVIDE EXIT HARDWARE DEVICE)	
<b>TEMPORARY DOORS- SEE DEMO (LEVEL 3 STAIR ACCESS)</b>											
101	A	FR 3'-0" x 6'-8" x 1 3/4"	WOOD							TEMPORARY EXIT DOOR- SEE PHASING (PROVIDE EXIT HARDWARE DEVICE, ALUM. TRANSITION STRIP)	
102	--	3'-0" x 6'-8" x 1 3/4"	METAL							TEMPORARY MAINTENANCE GATE IN WIRE MESH PARTITION (SEE SPEC'S). (PROVIDE EXIT HARDWARE DEVICE)	
103	--	3'-0" x 6'-8" x 1 3/4"	METAL							TEMPORARY MAINTENANCE GATE IN WIRE MESH PARTITION (SEE SPEC'S). (PROVIDE EXIT HARDWARE DEVICE)	
<b>SECOND LEVEL DOORS (THREE STORY ADDITION)</b>											
201	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42			X, M	
202	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 22/A42	MARBLE			
203	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 22/A42	MARBLE			
204	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 22/A42	MARBLE			
205	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42				
206	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42				
207	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
208	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
209	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 20/A42	C.S.			
210	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 20/A42	C.S.			
211	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
212	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, 21/A42	MARBLE			
213	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42				
214	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42				
215	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
216	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
217	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
218	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
219	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42				
220	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42				
221	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
222	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
223	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
224	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
225	C	3'-0" x 6'-8" x 1 3/4"	WOOD	16 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 20/A42	C.S.			
226	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42, -AA2	MARBLE			
227	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	8 3/4"	METAL	3/A42, 9/A42				
228	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE		R	
229	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
230	C	3'-0" x 6'-8" x 1 3/4"	WOOD	16 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
231	C	3'-0" x 6'-8" x 1 3/4"	WOOD	16 x 21	20 MIN	8 3/4"	3/A42, 9/A42				
232	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
233	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
234	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
235	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42				
236	A	4'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
237	A	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	20 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
238	B	3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42, 21/A42	MARBLE			
239	B	FR 3'-0" x 6'-8" x 1 3/4"	WOOD	8 x 21	15' 60 MIN	8 3/4"	3/A42, 9/A42			X, M	

DOOR SCHEDULE											
DOOR			LABEL DOOR & FRAME			FRAME			THRESH-HOLD	WEATHER-STRIPPING	REMARKS

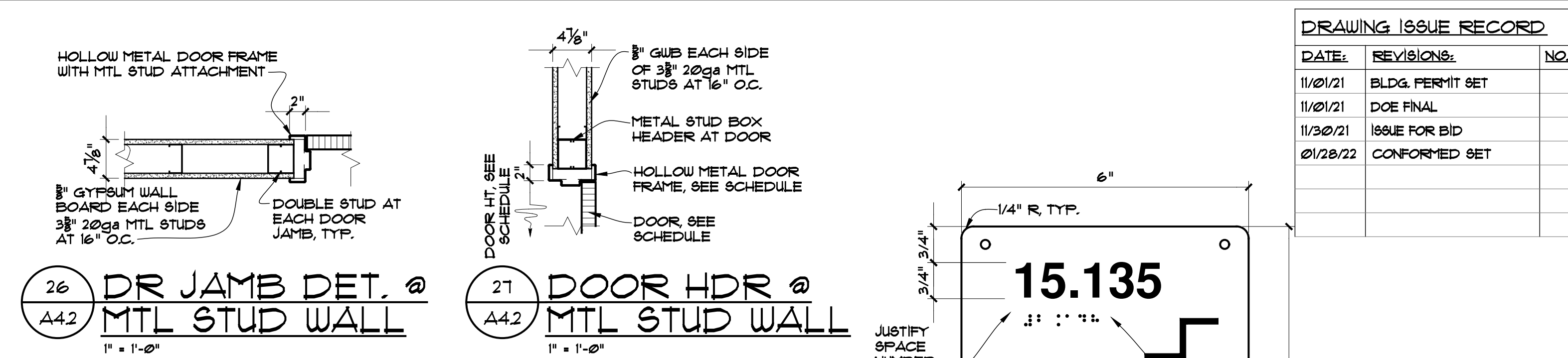
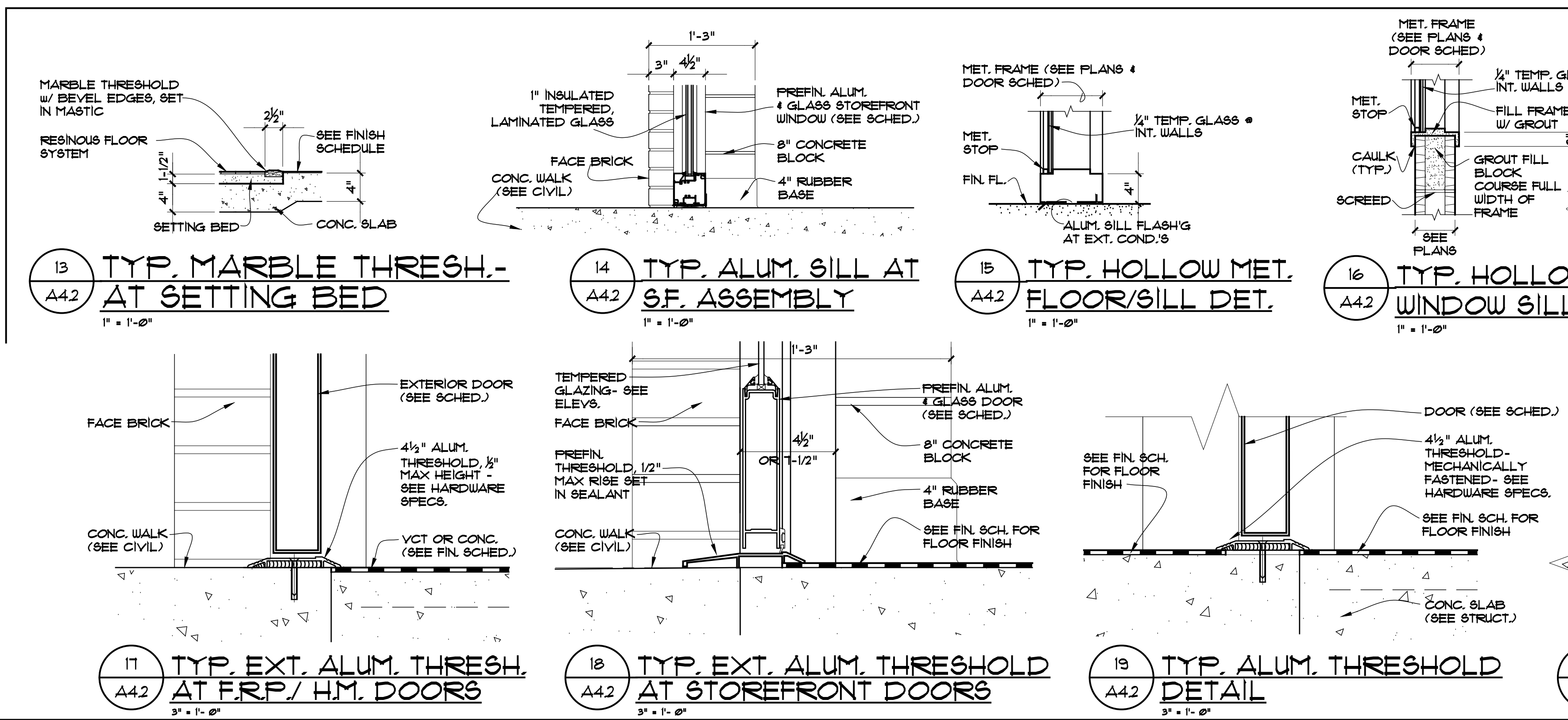
# TYPICAL DOOR AND FRAME JAMB DETAILS



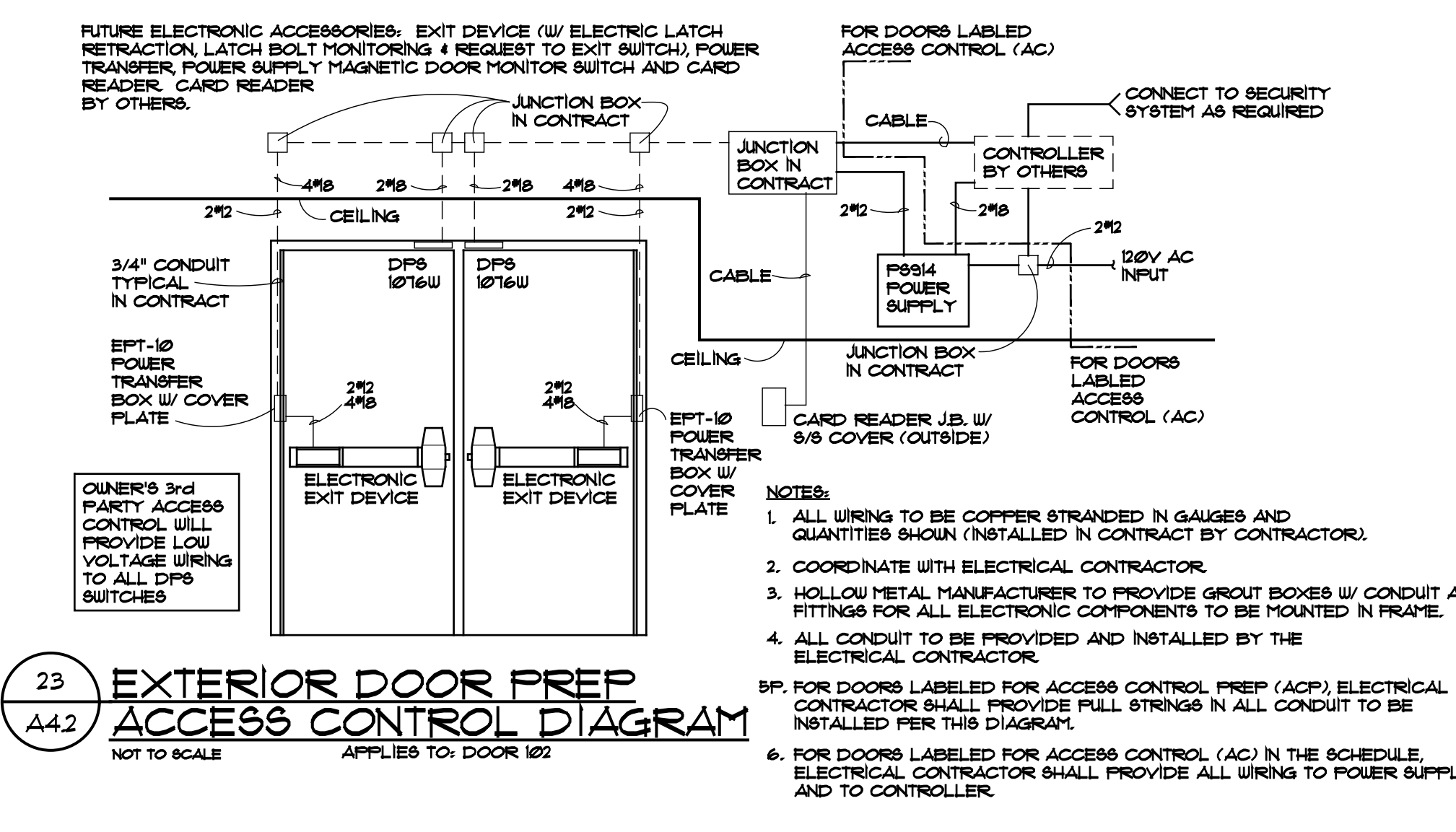
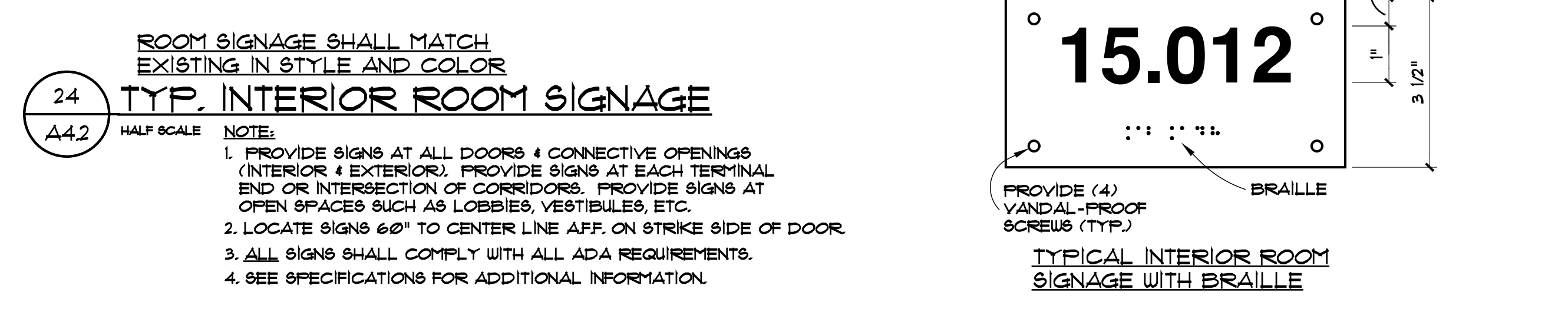
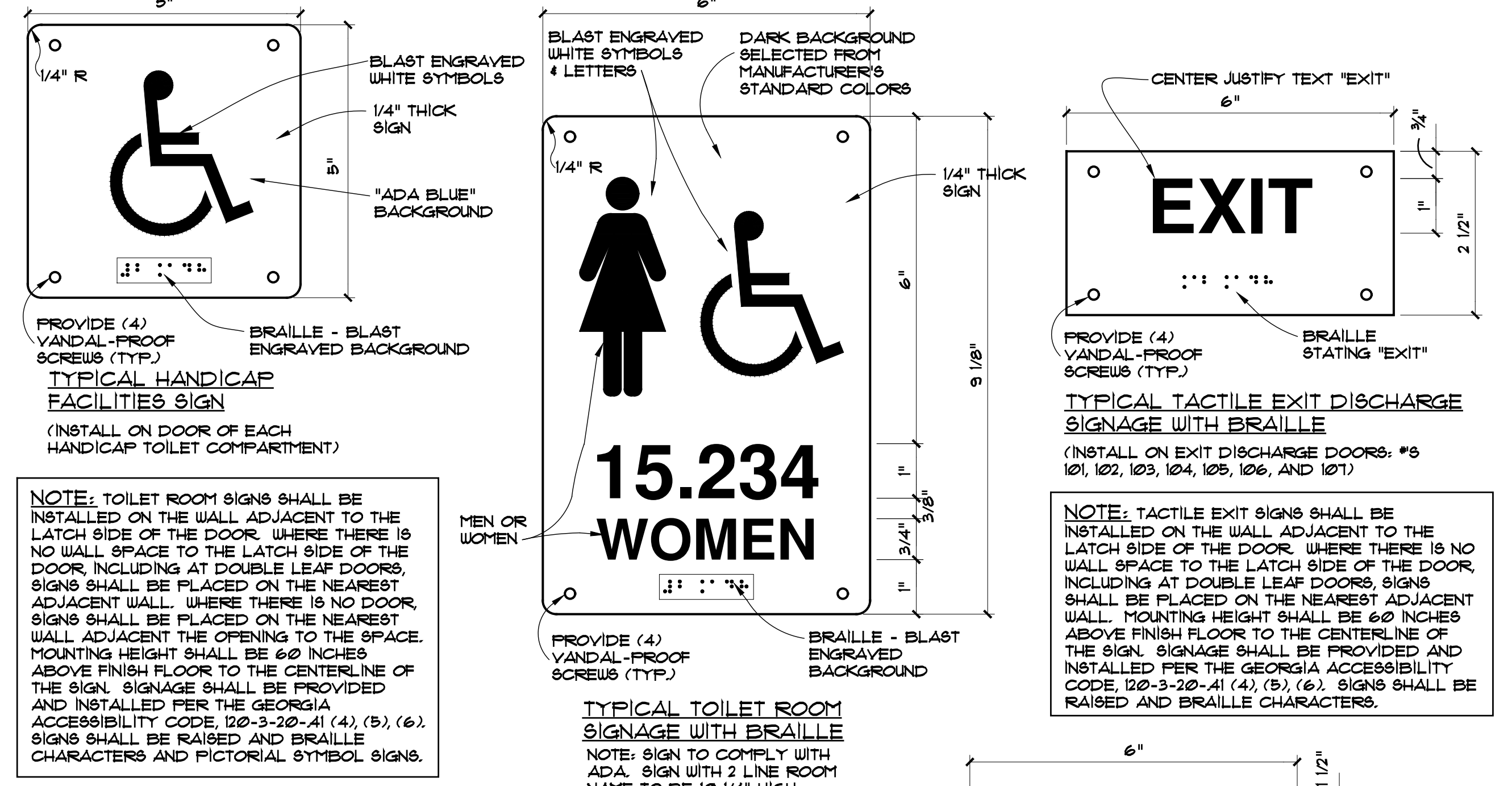
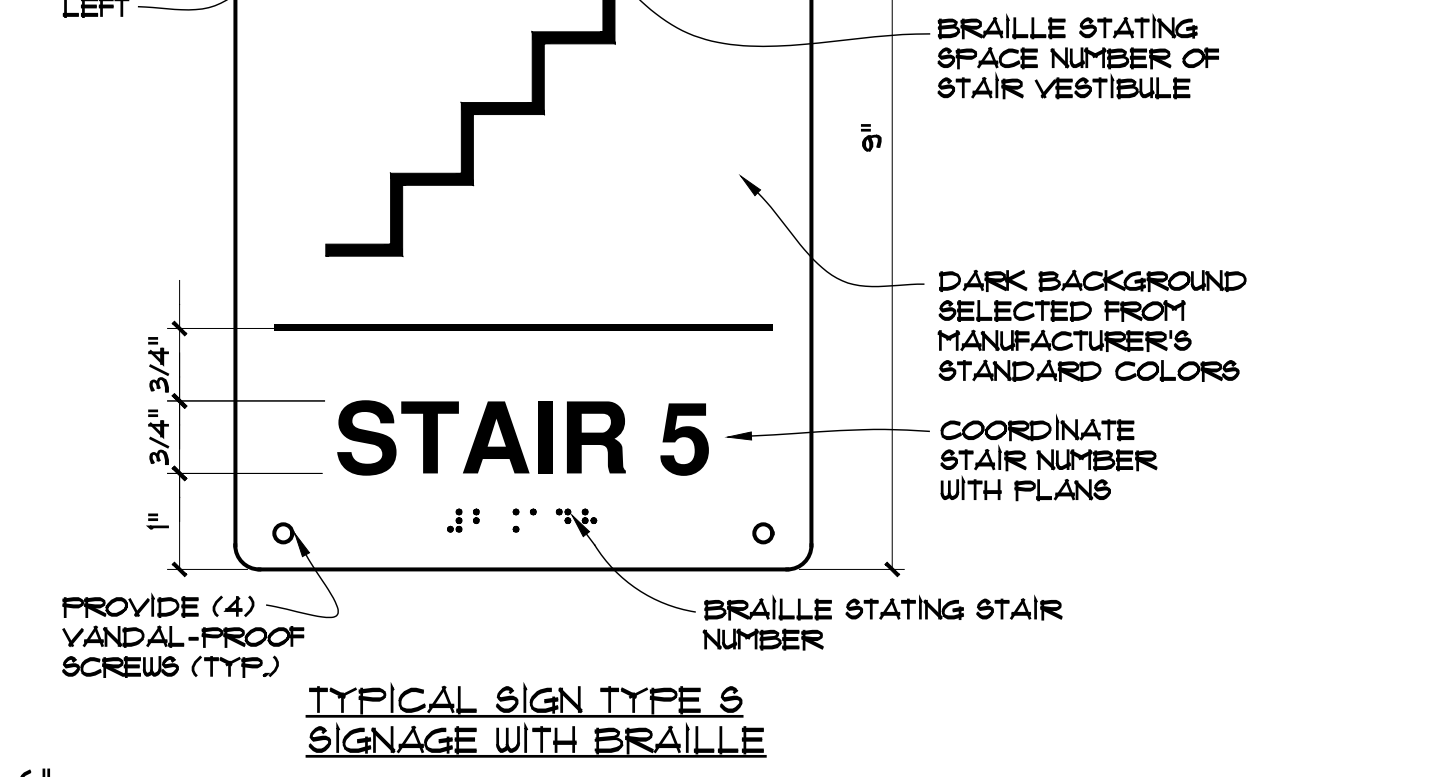
# TYPICAL DOOR AND FRAME HEAD DETAILS



# TYPICAL DOOR AND FRAME SILL DETAILS



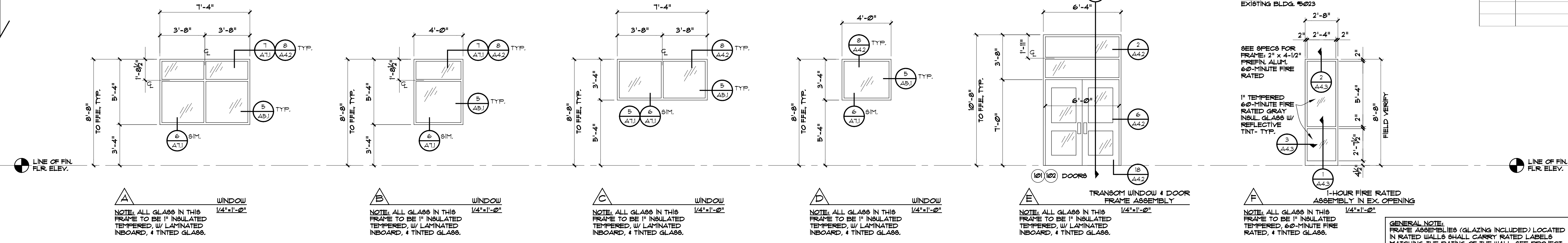
DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	



**cunningham, forehand, matthews & moore**  
 architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152  
 FACILITY CODE 667-4556  
 NORTH GWINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 SHEET: 54-LD02-21  
 DESIGNED BY: MTT, AP  
 CHECKED BY: JRM, TMT  
 DRAWN BY: JRM, TMT  
 A4.2

EXTERIOR ALUM. STOREFRONT FRAME ELEVATIONS

NOTES:  
 1. UNLESS OTHERWISE NOTED, ALL ALUMINUM STOREFRONT FRAMES ARE 6061 T6, THERMALLY BROKEN TYPE.  
 2. SEE SPECS FOR SHATTER PROOF EXTERIOR WINDOW GLAZING SYSTEM (LAMINATED INBOARD GLASS).  
 3. SEE ELEVATIONS ON A81 AND A82 FOR LOCATIONS.

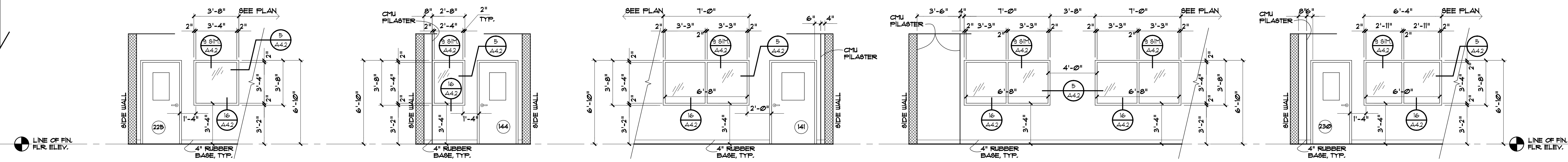


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1/10/21	BLDG. PERMIT SET	
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1/30/21	ISSUE FOR BID	
02/28/22	CONFORMED SET	

GENERAL NOTE:  
 FRAME ASSEMBLIES (GLAZING INCLUDED) LOCATED IN RATED WALLS SHALL CARRY RATED LABELS MATCHING THE RATING OF THE WALL. SEE PROJECT SPECIFICATIONS FOR APPROVED RATED GLAZING TYPES. PROVIDE TEMPERED GLASS IN ALL OTHER NON-RATED WINDOW DOOR SIDELIGHT, TRANSOM CONDITIONS UNLESS OTHERWISE NOTED.

HOLLOW METAL FRAME ELEVATIONS

NOTES:  
 1. UNLESS OTHERWISE NOTED, ALL HOLLOW METAL FRAMES ARE 14 GA. GALVALUM.  
 2. SEE SPECS FOR SHATTER PROOF EXTERIOR WINDOW GLAZING SYSTEM (LAMINATED INBOARD GLASS).  
 3. SEE ELEVATIONS ON A81 AND A82 FOR LOCATIONS.



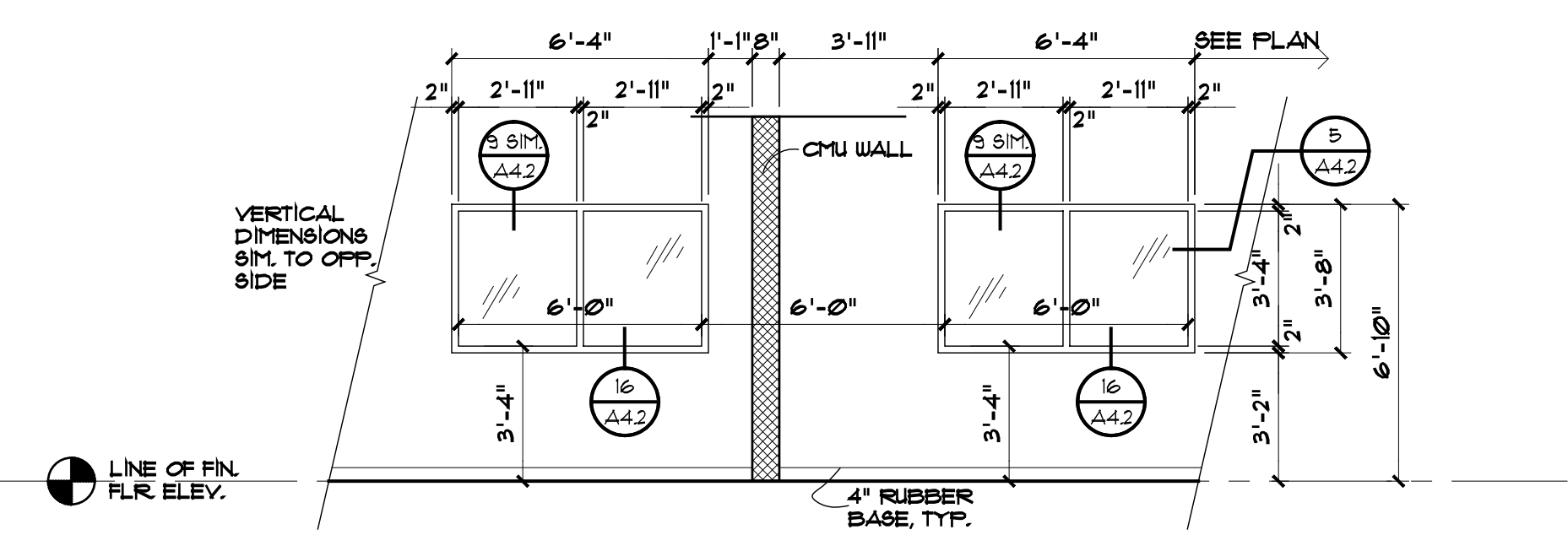
H1 MTL FR ELEV. TYP. AT OFFICE B3209. NOTE: ALL GLASS IN THIS FRAME TO BE 1/4\"

H2 MTL FR ELEV. TYP. AT INSTR. REPAIR B3216. NOTE: ALL GLASS IN THIS FRAME TO BE DOUBLE-GLAZED W/ (2) 1/4\"

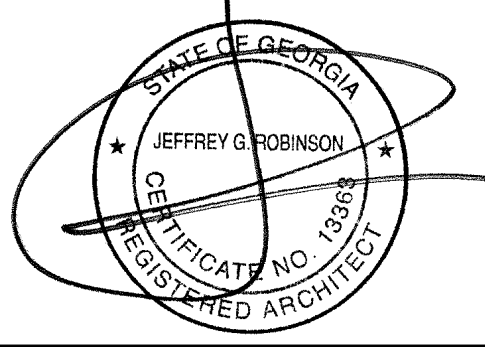
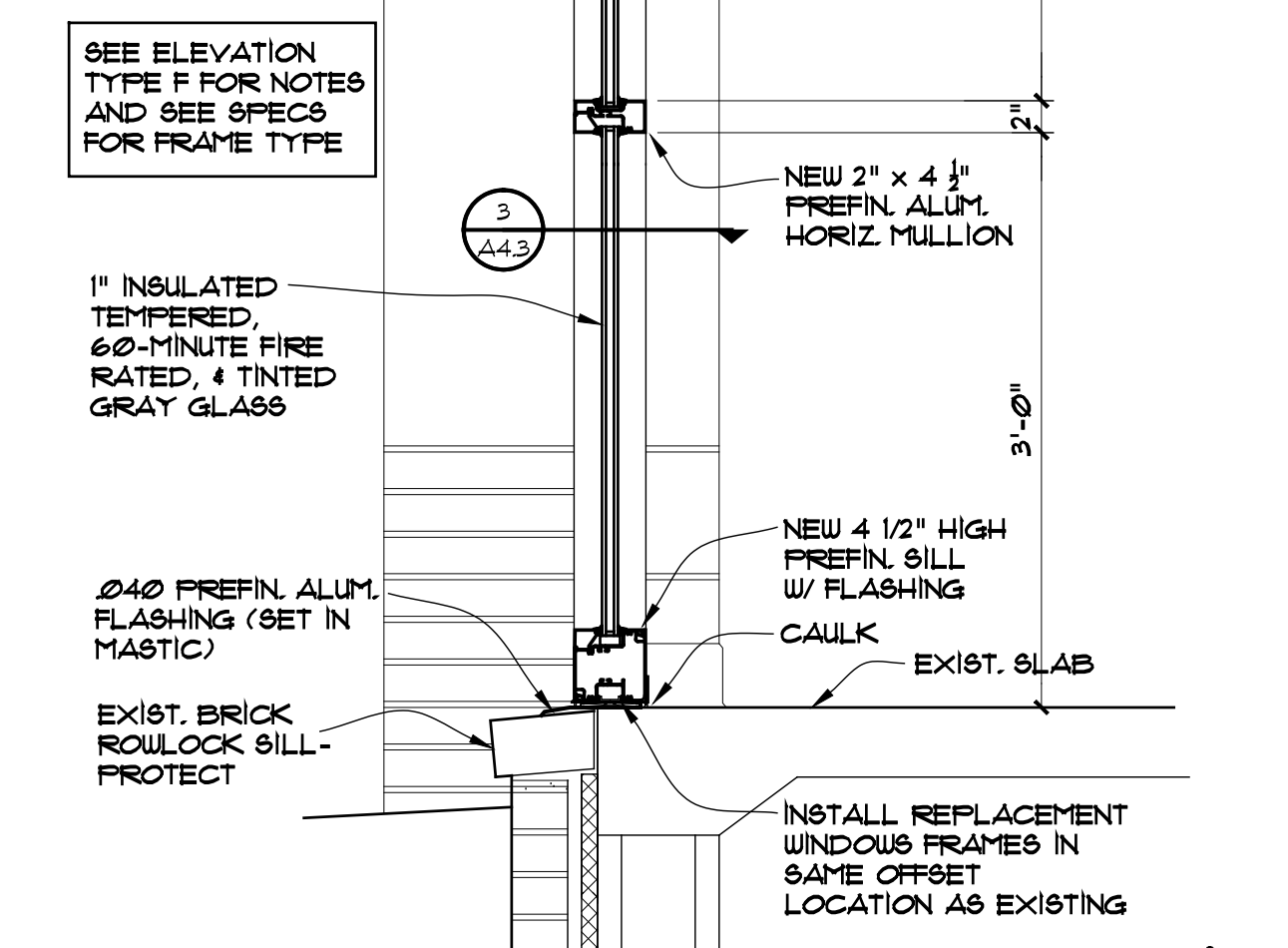
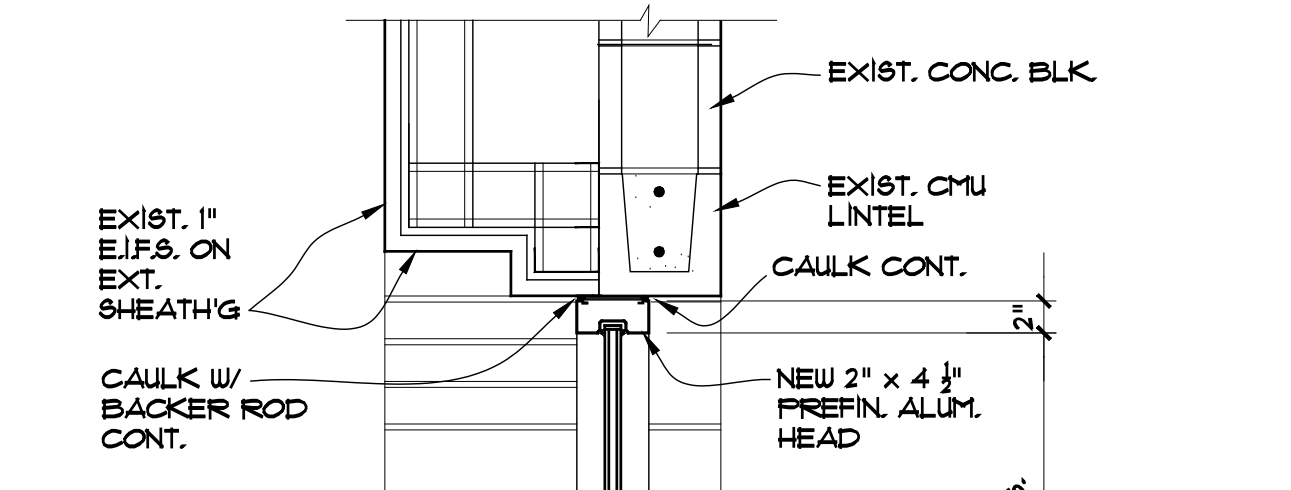
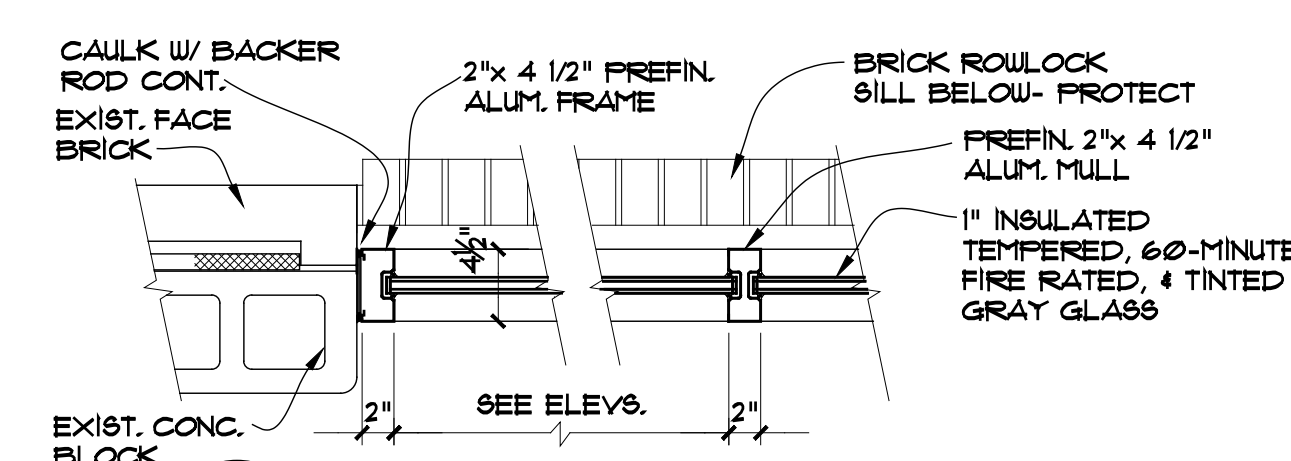
H3-A MTL FR ELEV. TYP. AT OFFICE / LIBRARY B3222. NOTE: ALL GLASS IN THIS FRAME TO BE DOUBLE-GLAZED W/ (2) 1/4\"

H3-B MTL FR ELEV. TYP. AT OFFICE / LIBRARY B3222. NOTE: ALL GLASS IN THIS FRAME TO BE DOUBLE-GLAZED W/ (2) 1/4\"

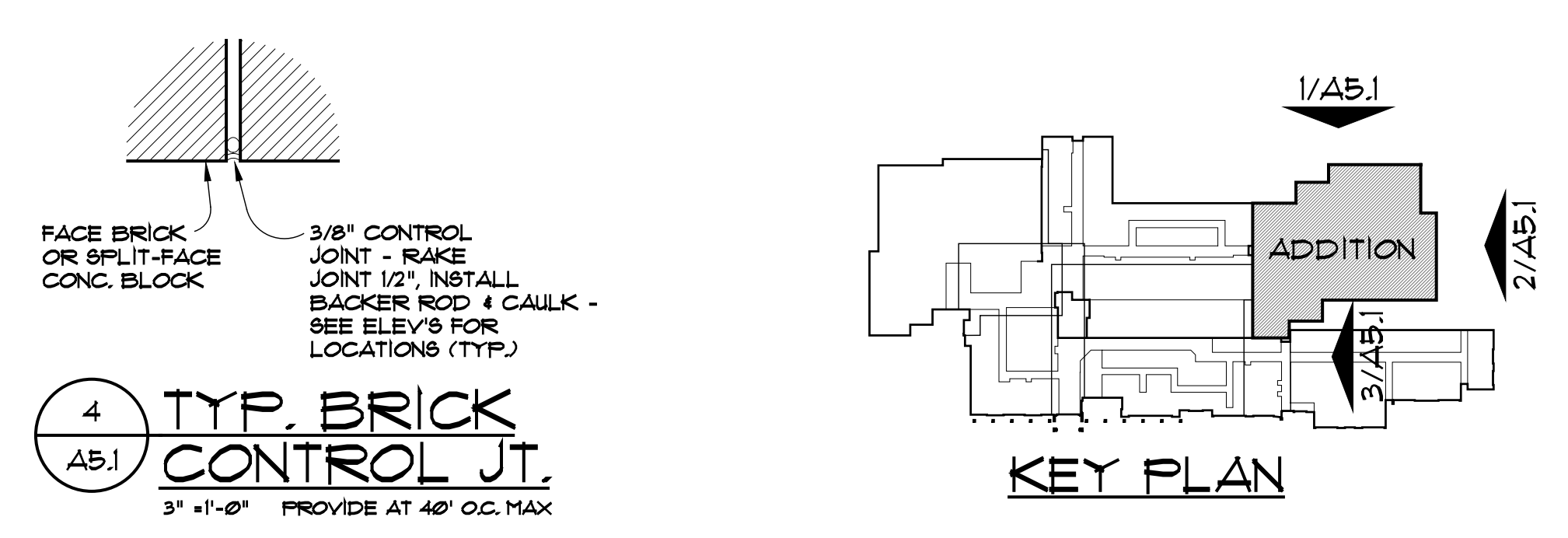
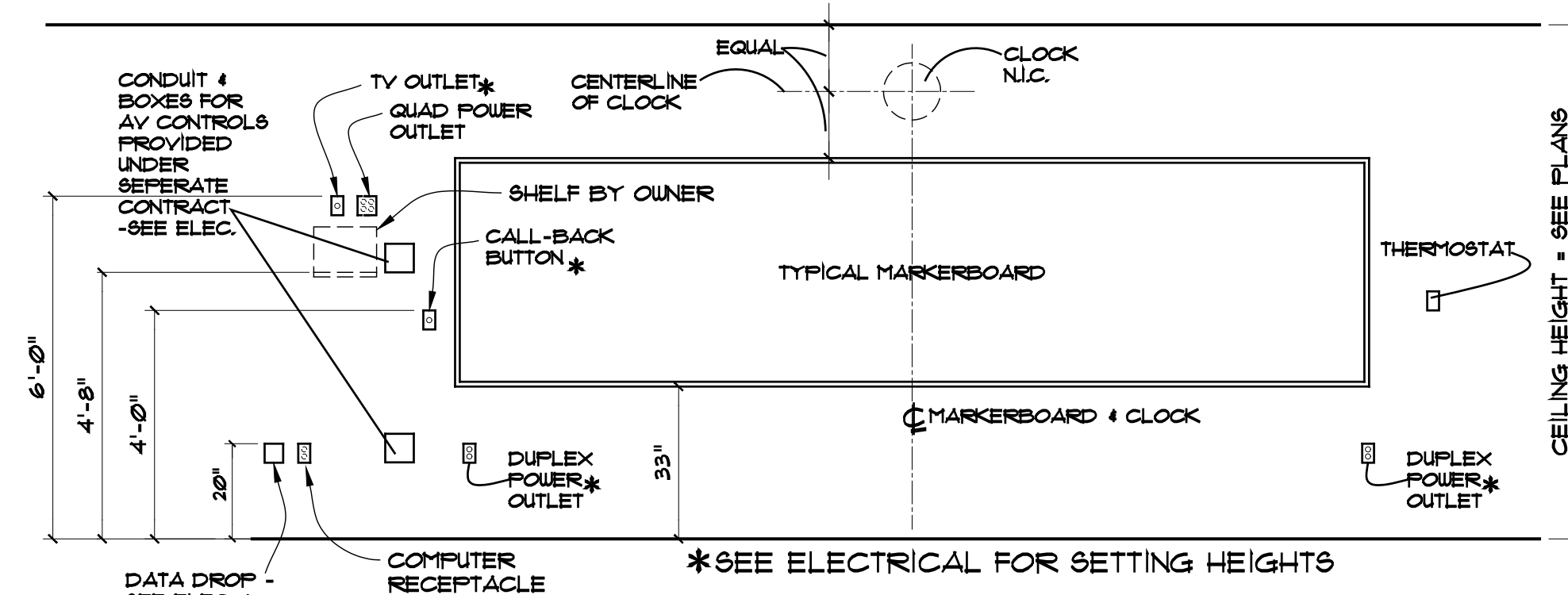
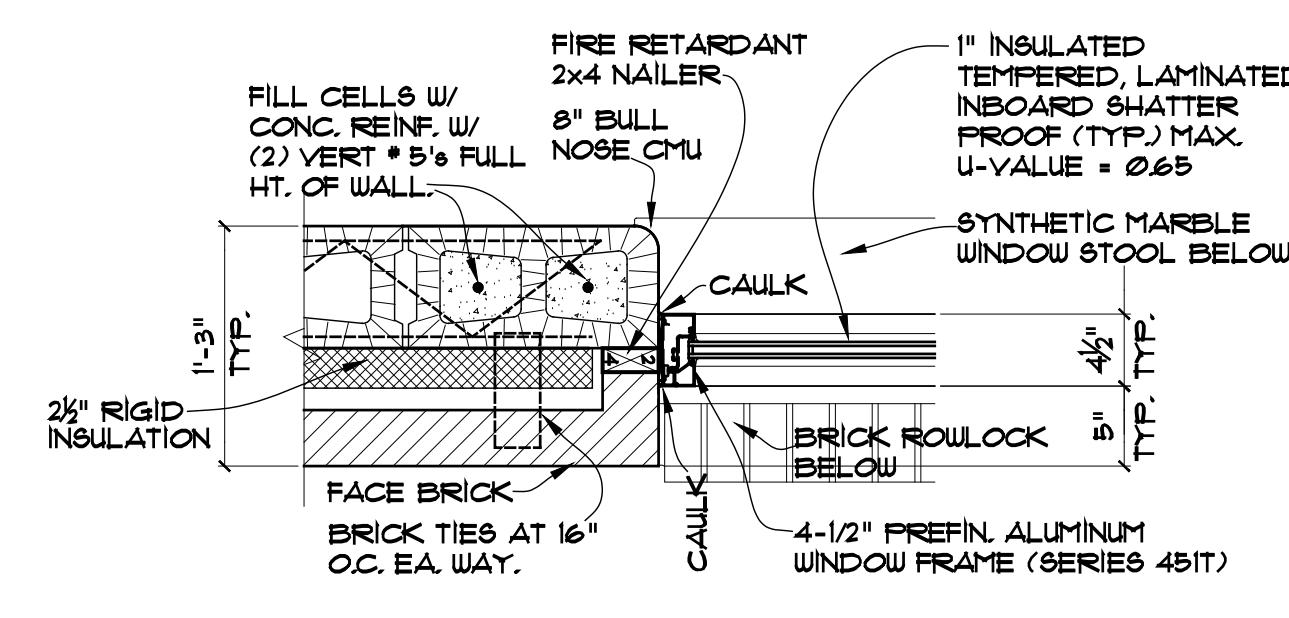
H4-A MTL FR ELEV. TYP. AT RECEPTION B3241. NOTE: ALL GLASS IN THIS FRAME TO BE 1/4\"



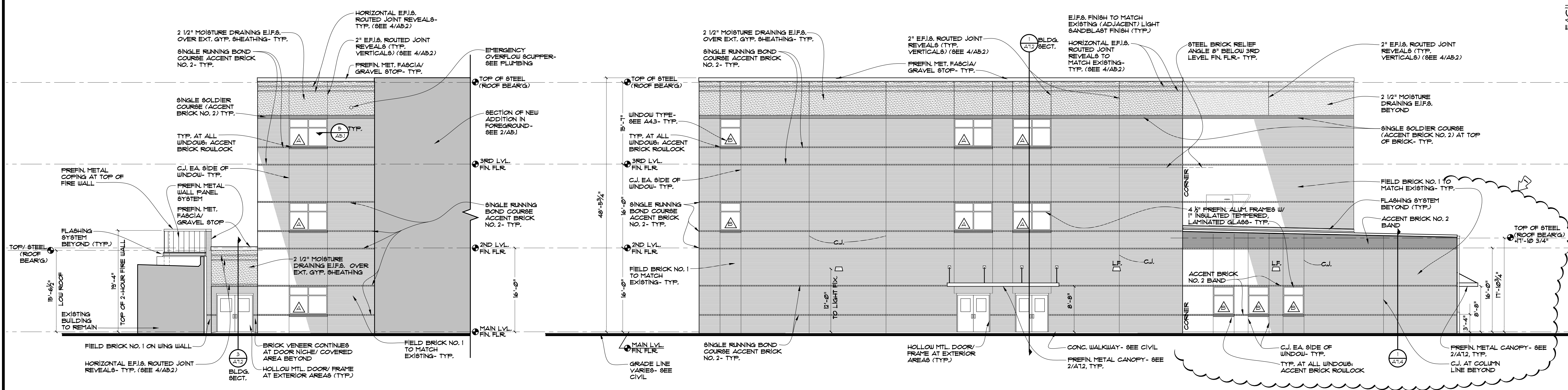
H4-B MTL FR ELEV. TYP. AT AP OFFICE B3242 / RECEPTION B3241. NOTE: ALL GLASS IN THIS FRAME TO BE 1/4\"



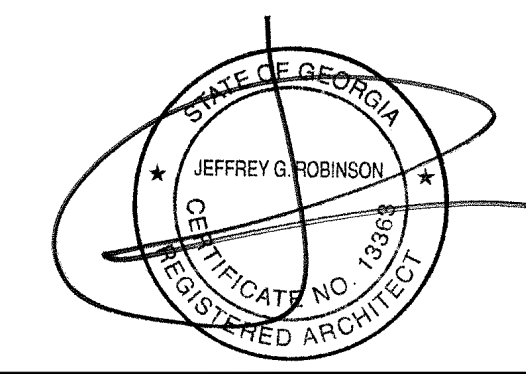
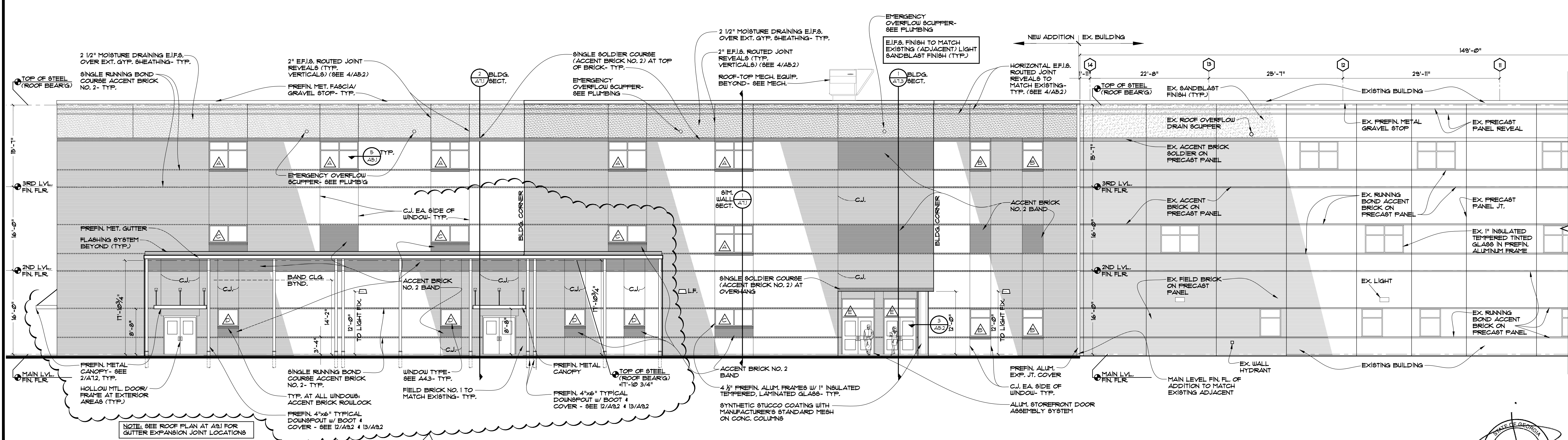
FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 SHEET: 02-21  
 DESIGNED BY: M. AP  
 CHECKED BY: J. PM  
**cunningham, forehand, matthews & moore, architects, inc.** - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152  
**A4.3**



DRAWING ISSUE RECORD		
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**2 PARTIAL EAST ELEVATION- ADDITION**  
 1/8" x 1/8"



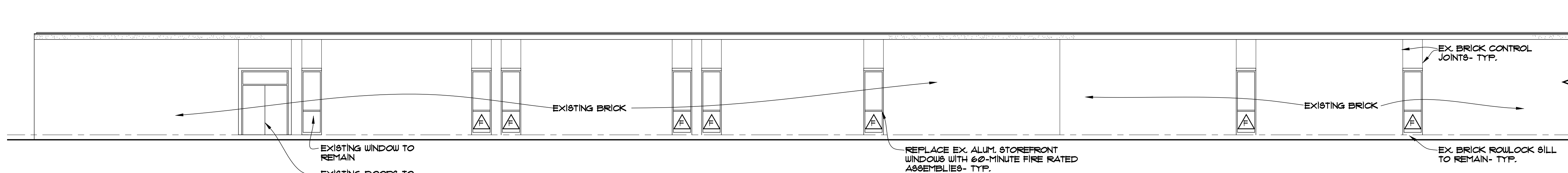
FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 DESIGNED BY: JRM, AP  
 CHECKED BY: MMT, AP  
 DRAWN BY: JRM, PMT  
 SCALE: 1/8" = 1'-0"

cunningham forehand matthews moore

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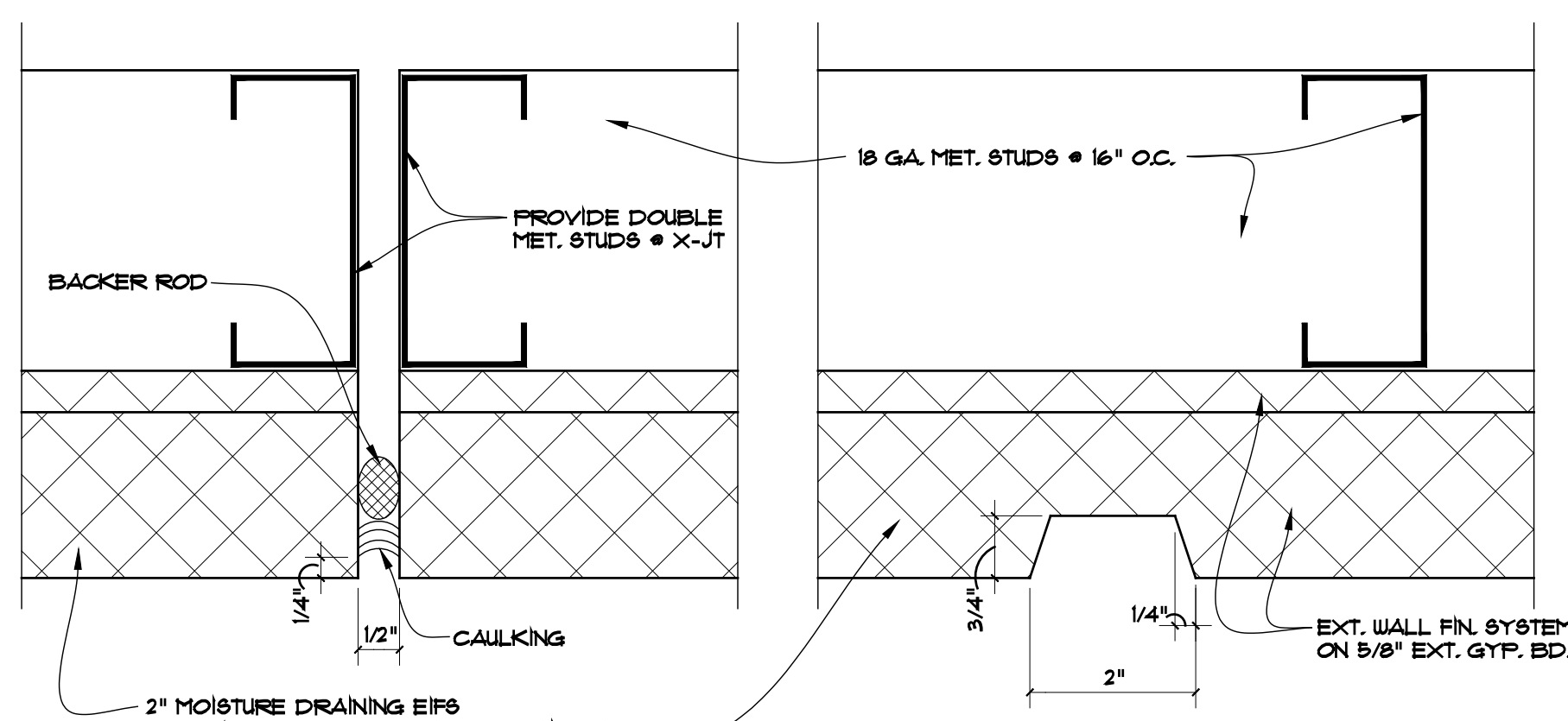
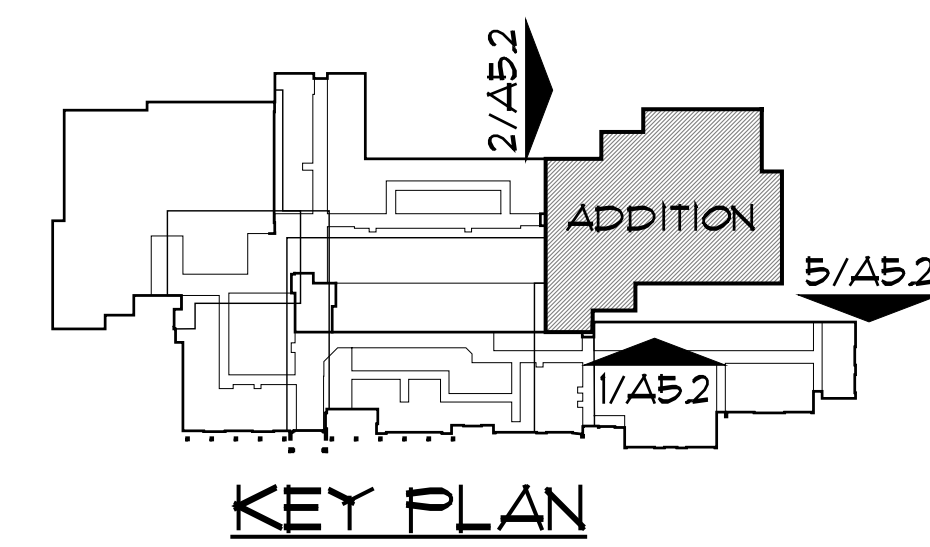
A5.1

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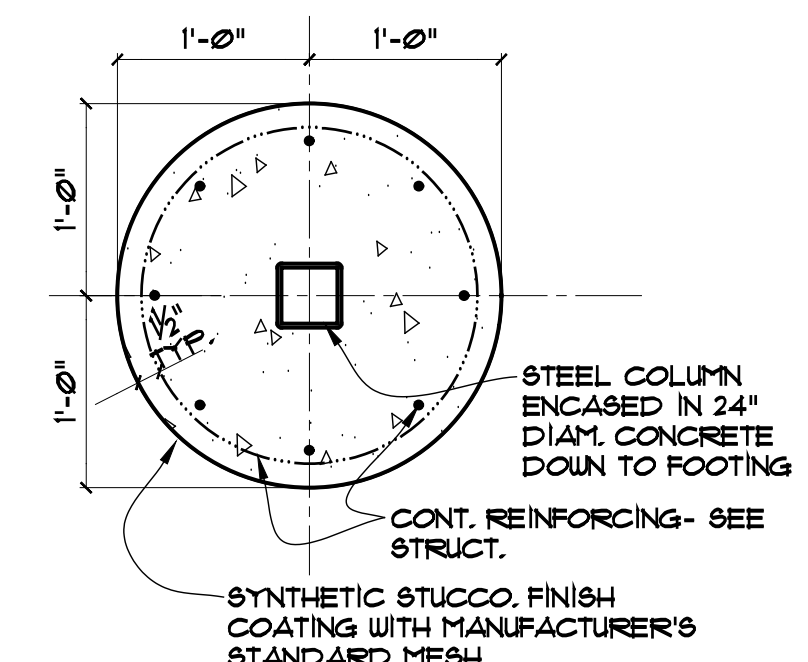


**5 PARTIAL NORTH ELEVATION- EX. BLDG. 5023**  
 1/8" = 1'-0"  
 SEE FLOOR PLAN AT A2.1

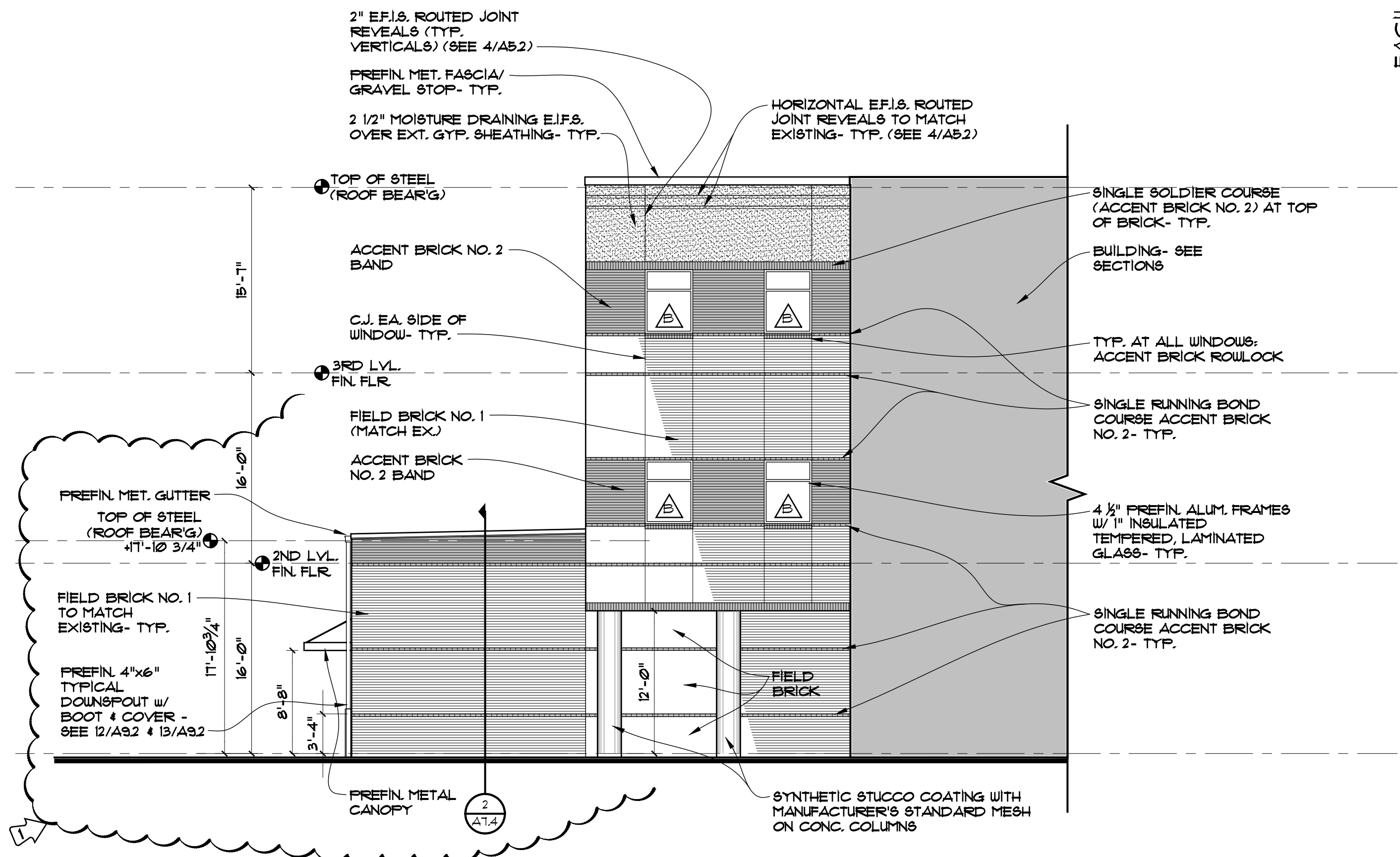
REPLACEMENT WINDOW  
 TYP. - SEE A4.3



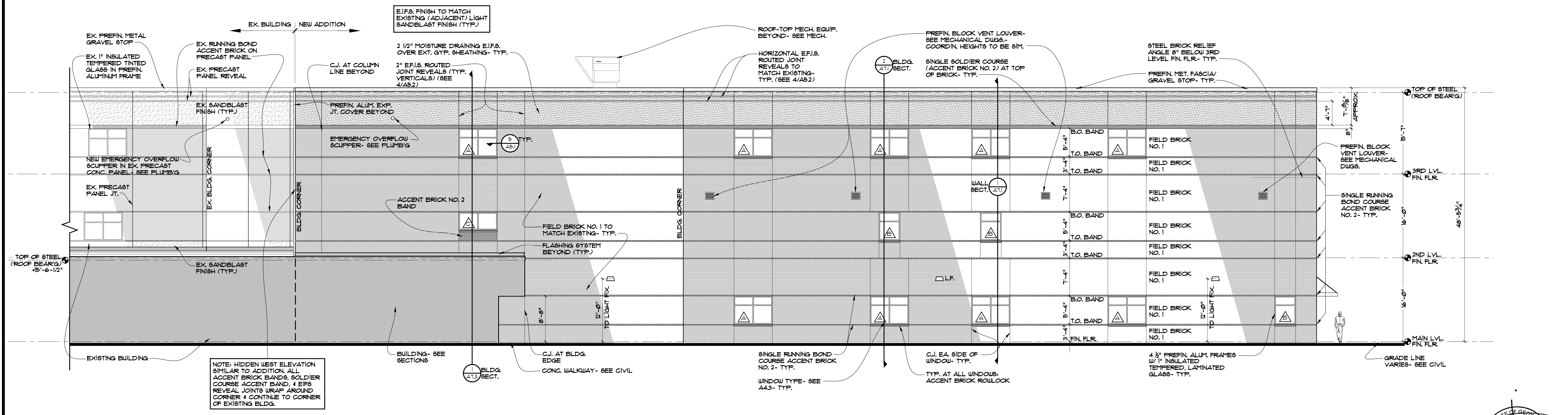
**4 TYP. DETAILS @ EXT. WALL FIN. SYSTEM**  
 6" = 1'-0"



**3 TYPICAL COVERED AREA COLUMN DETAIL**  
 1" = 1'-0"



**2 PARTIAL WEST ELEVATION- ADDITION**  
 1/8" = 1'-0"



**1 PARTIAL SOUTH ELEVATION- ADDITION**  
 1/8" = 1'-0"

NOTE: HIDDEN WEST ELEVATION SIMILAR TO ADDITION. ALL ACCENT BRICK BANDS, SOLDIER COURSE ACCENT BAND, & EIFS REVEAL JOINTS WRAP AROUND CORNER & CONTINUE TO CORNER OF EXISTING BLDG.

FACILITY CODE 66T-4556  
**NORTH GWINNETT HIGH SCHOOL**  
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 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 DRAWN BY: MATHIAS  
 CHECKED BY: JRM  
 DESIGNED BY: JRM  
 PROJECT NO.: 2011-001-01

cunningham, forehand, matthews & moore

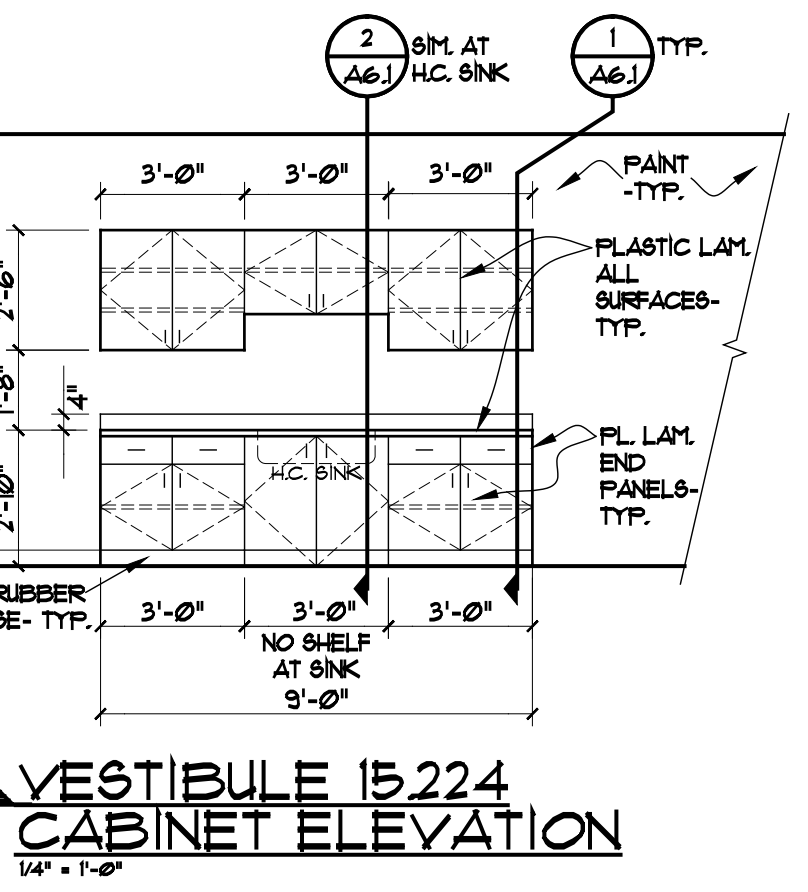
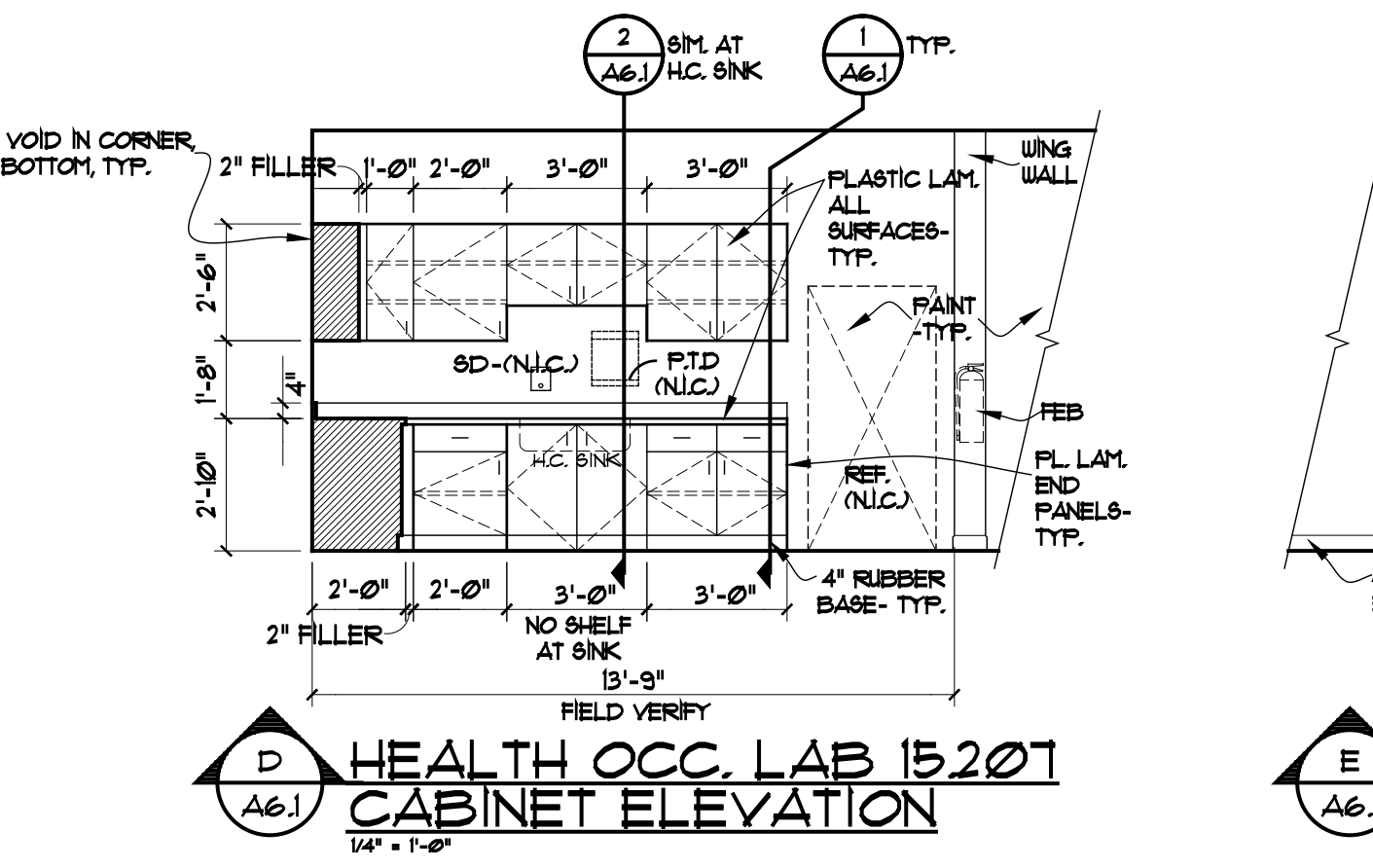
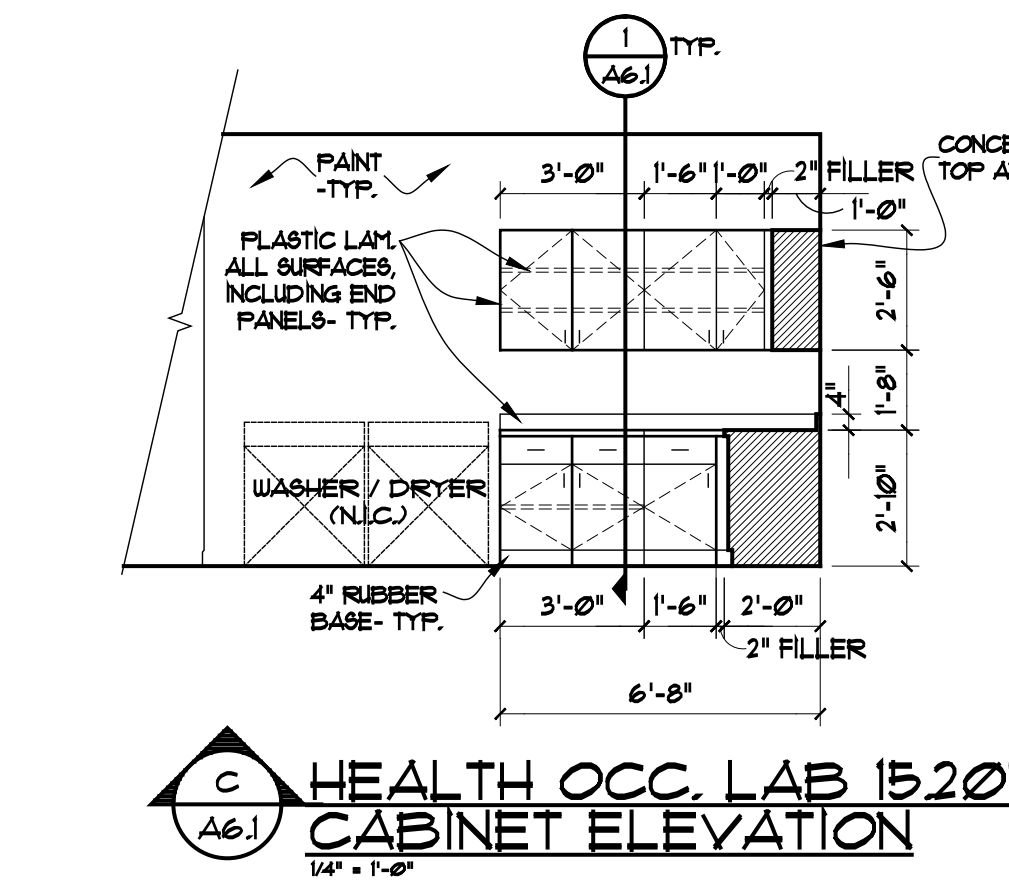
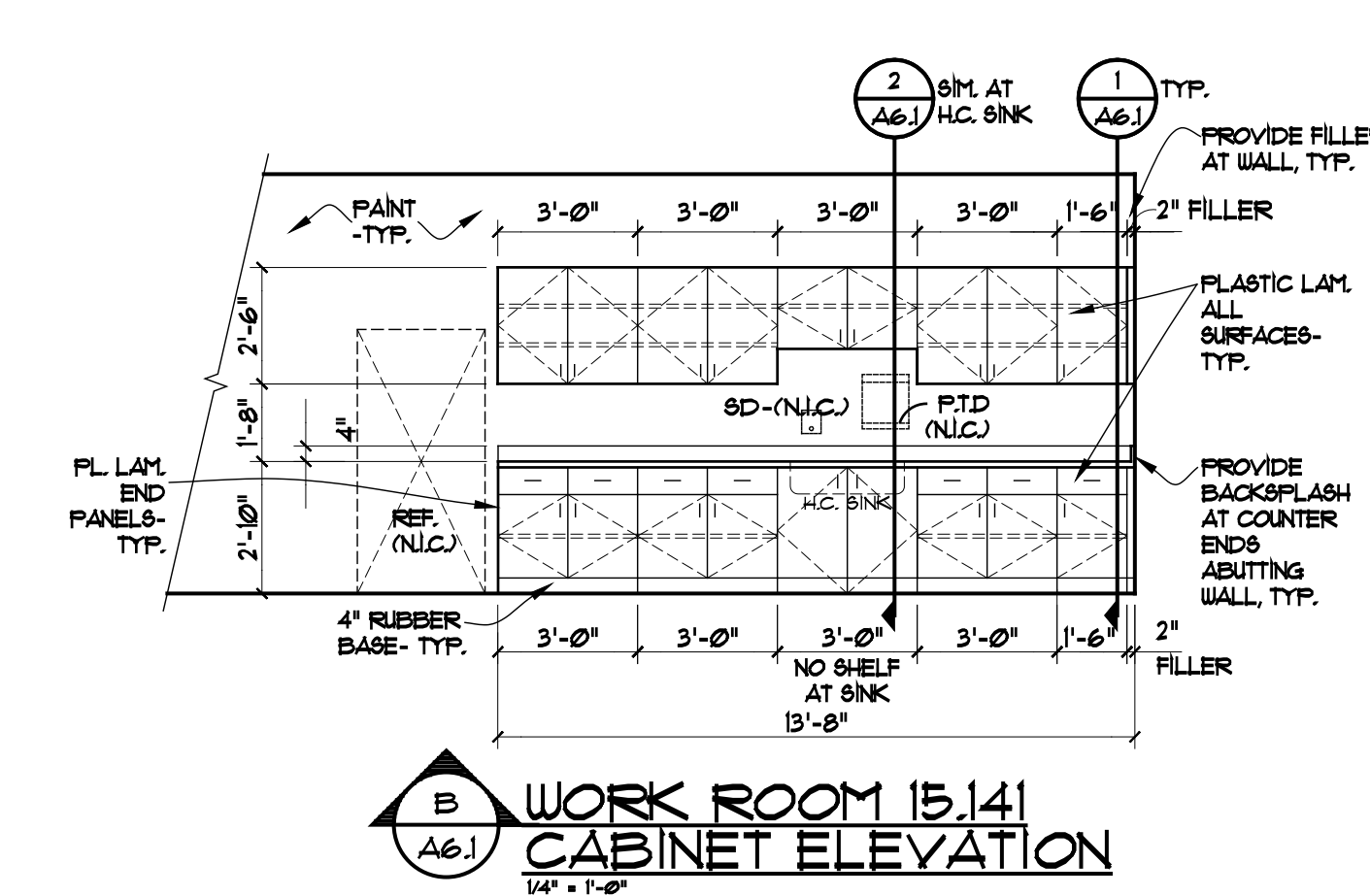
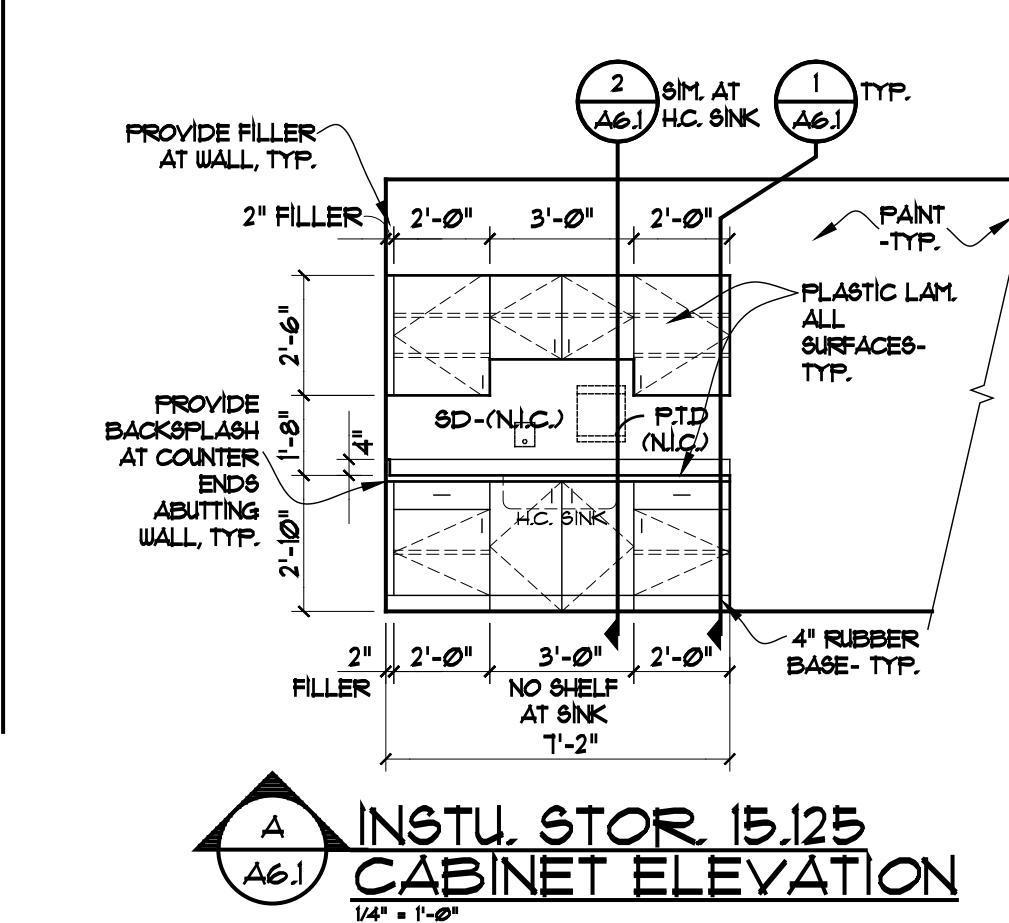
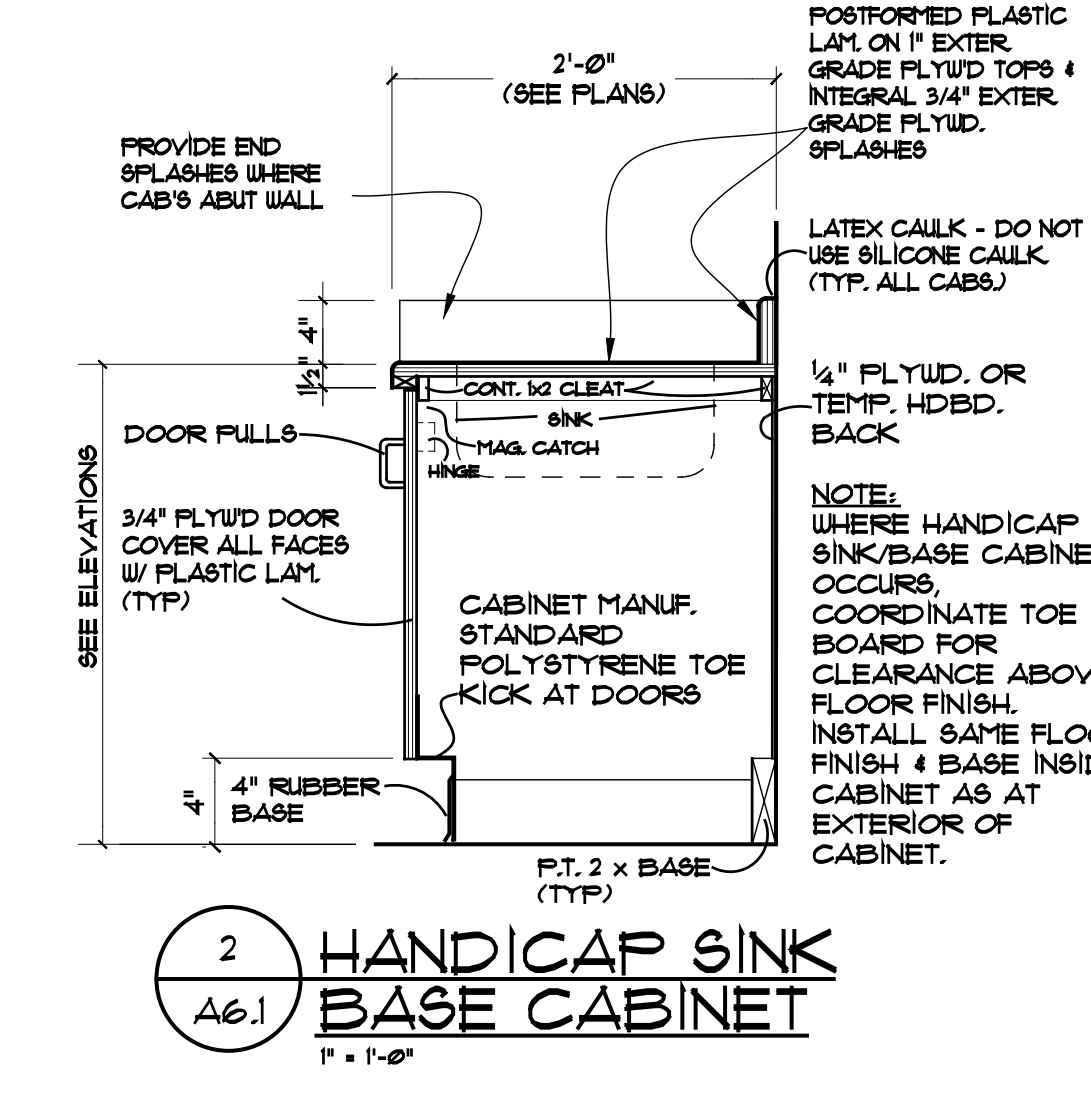
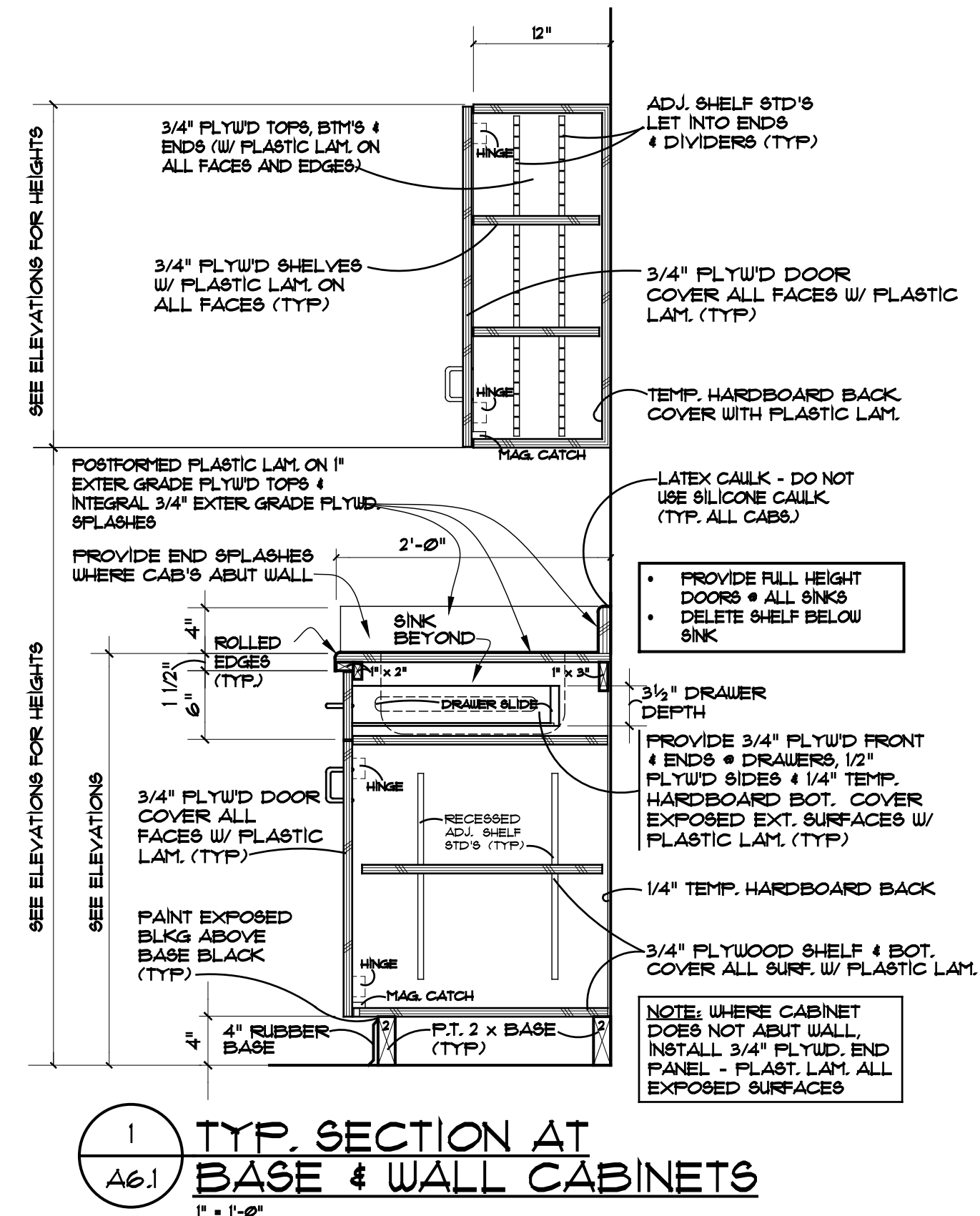
atlanta, georgia 30324 - phone (404) 873-2152

A5.2

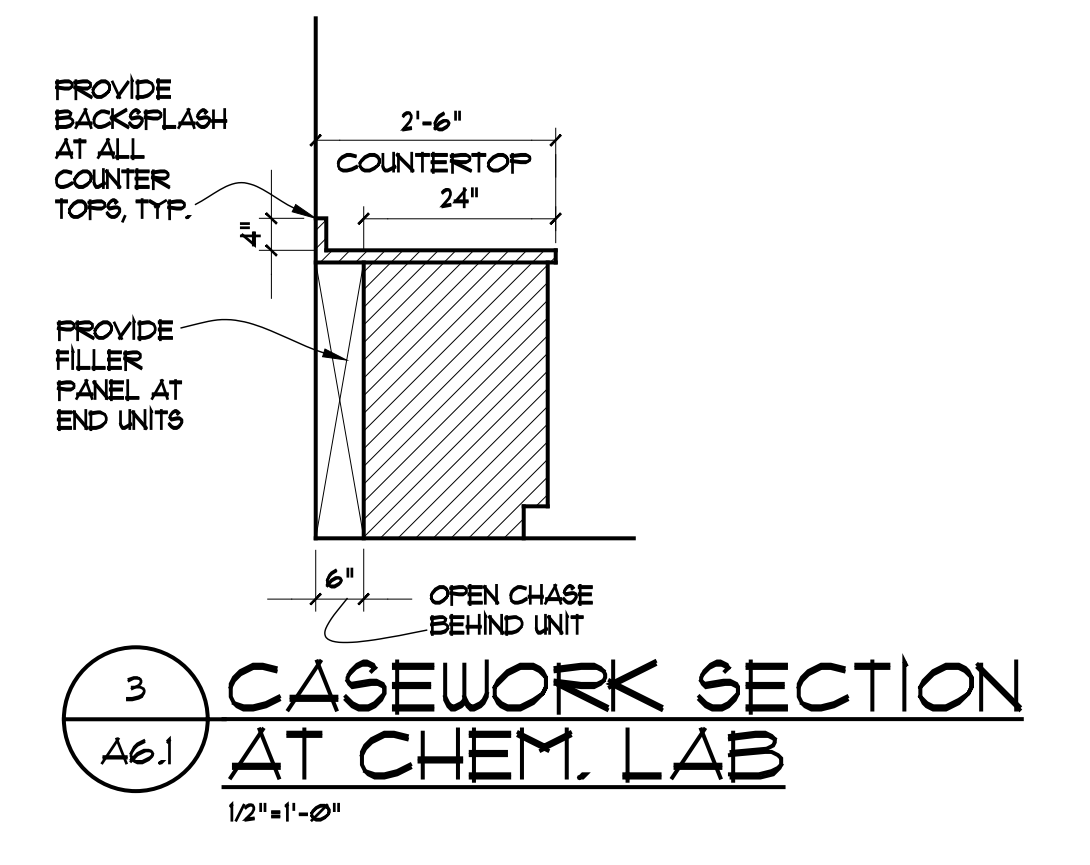
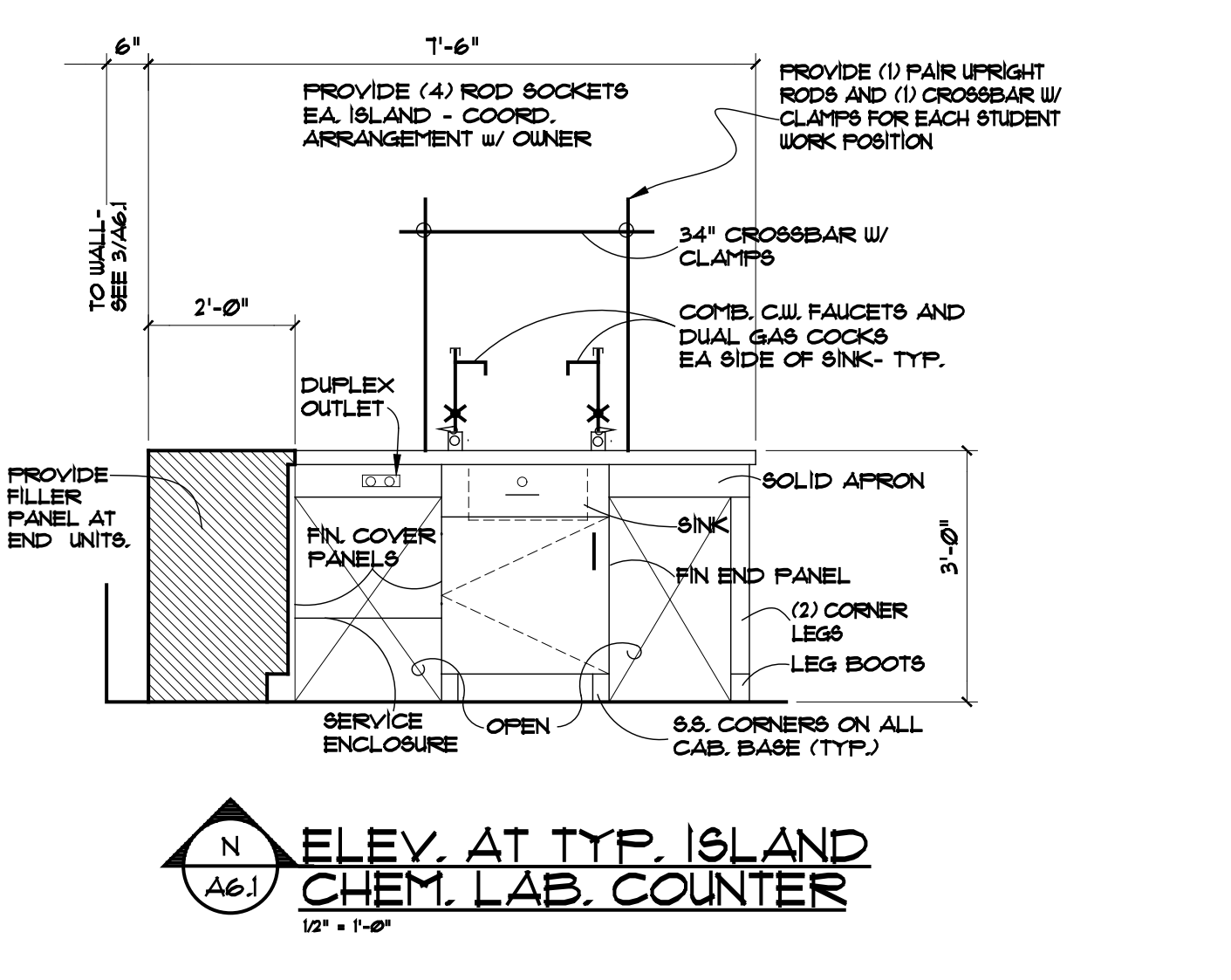
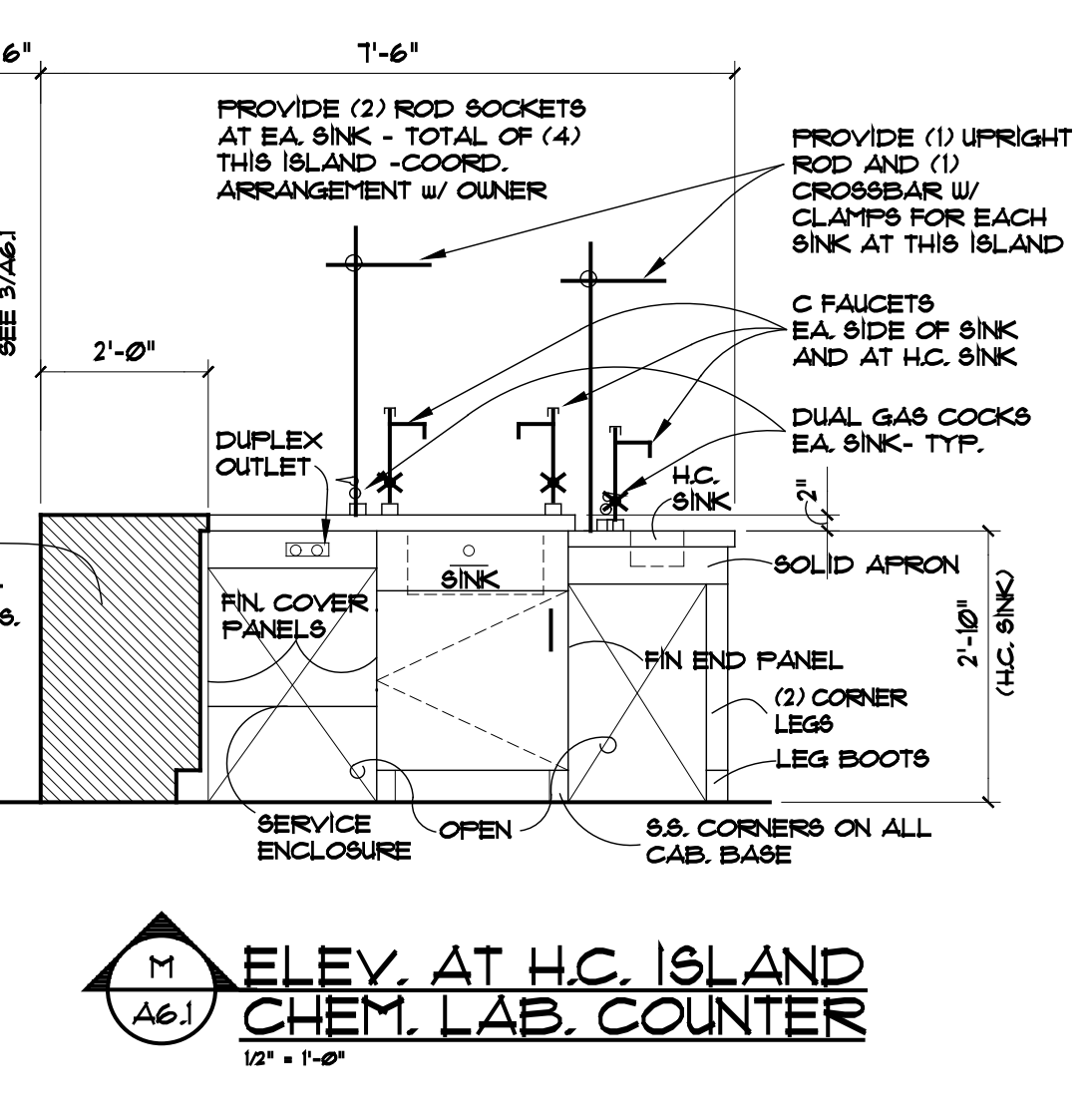
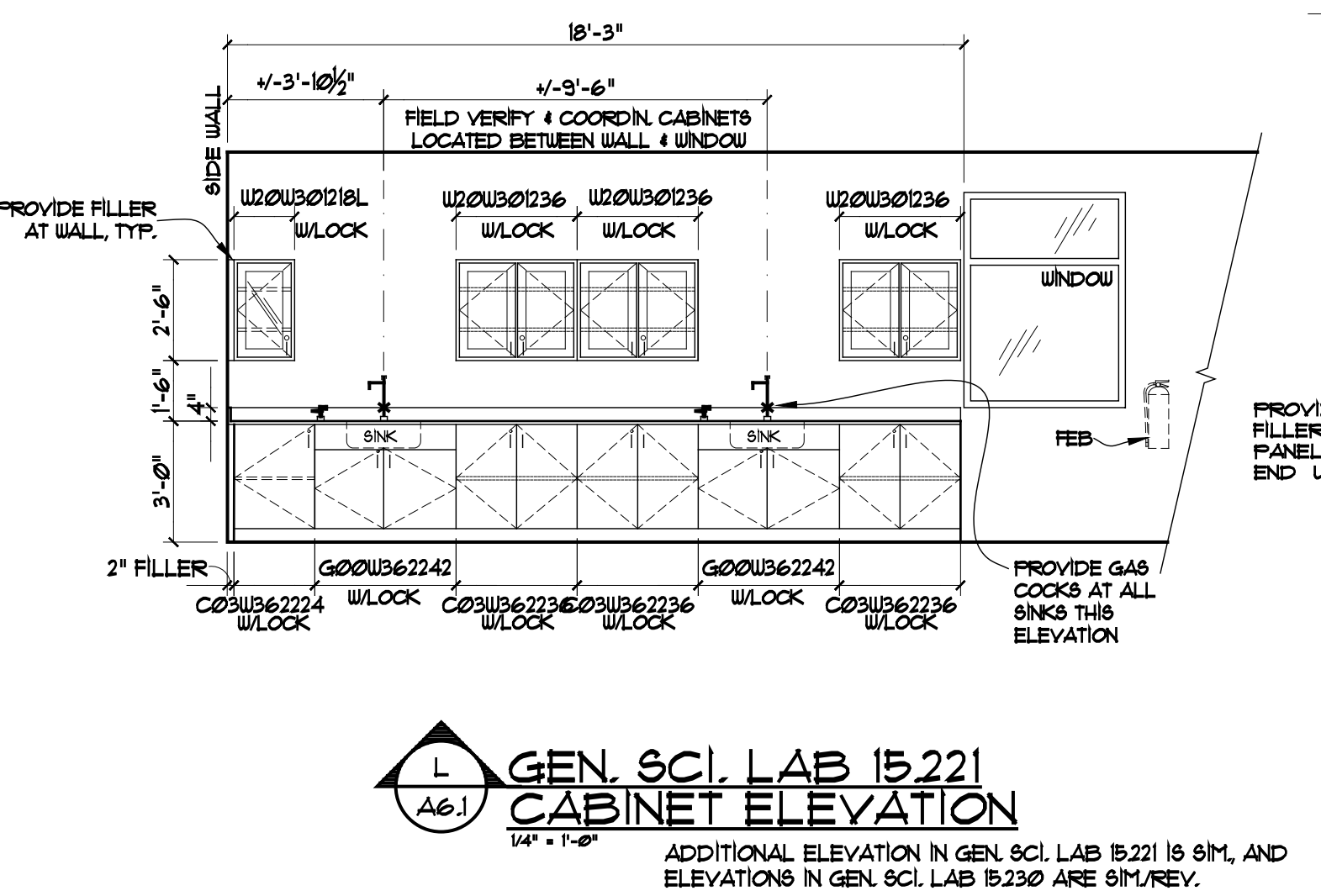
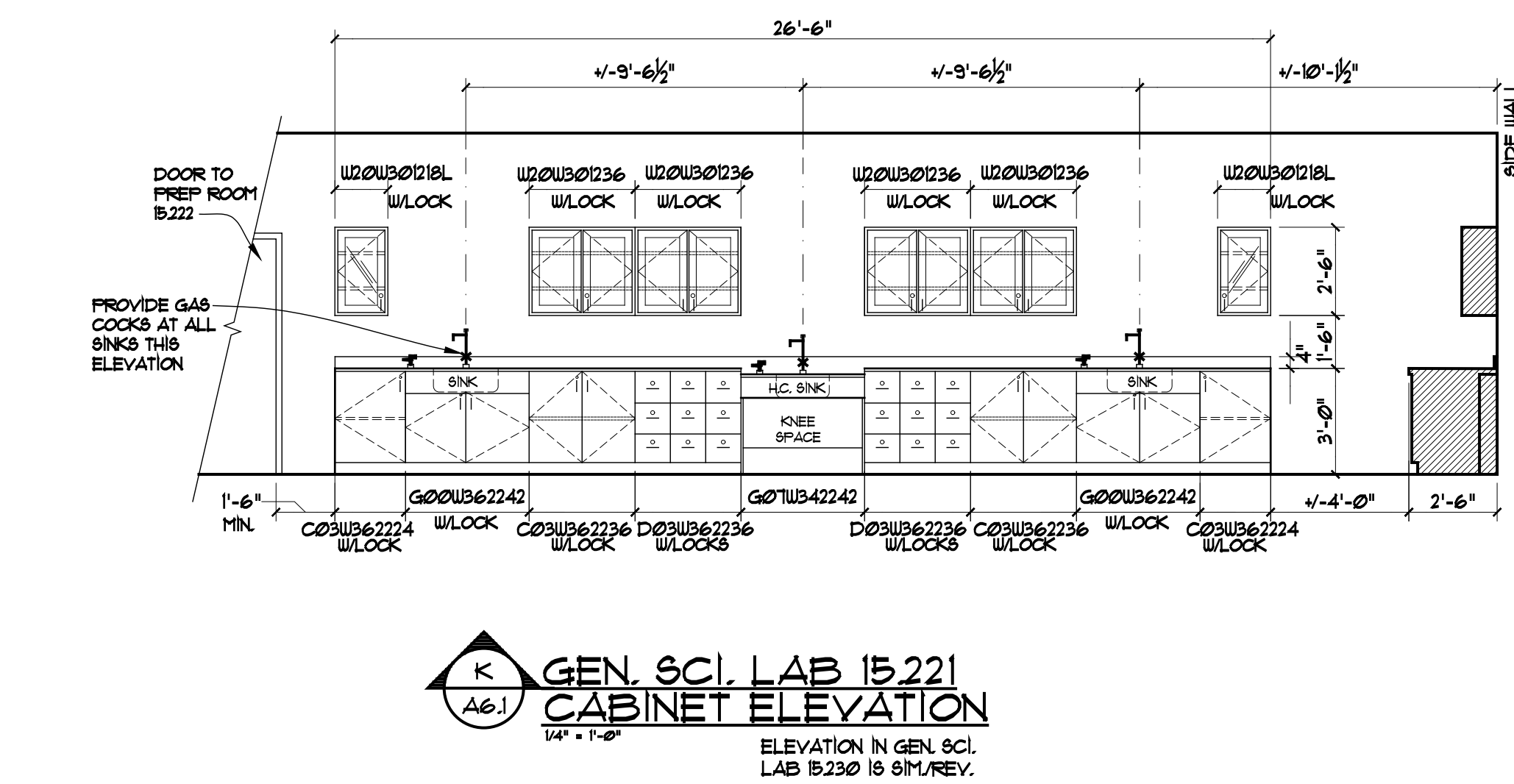
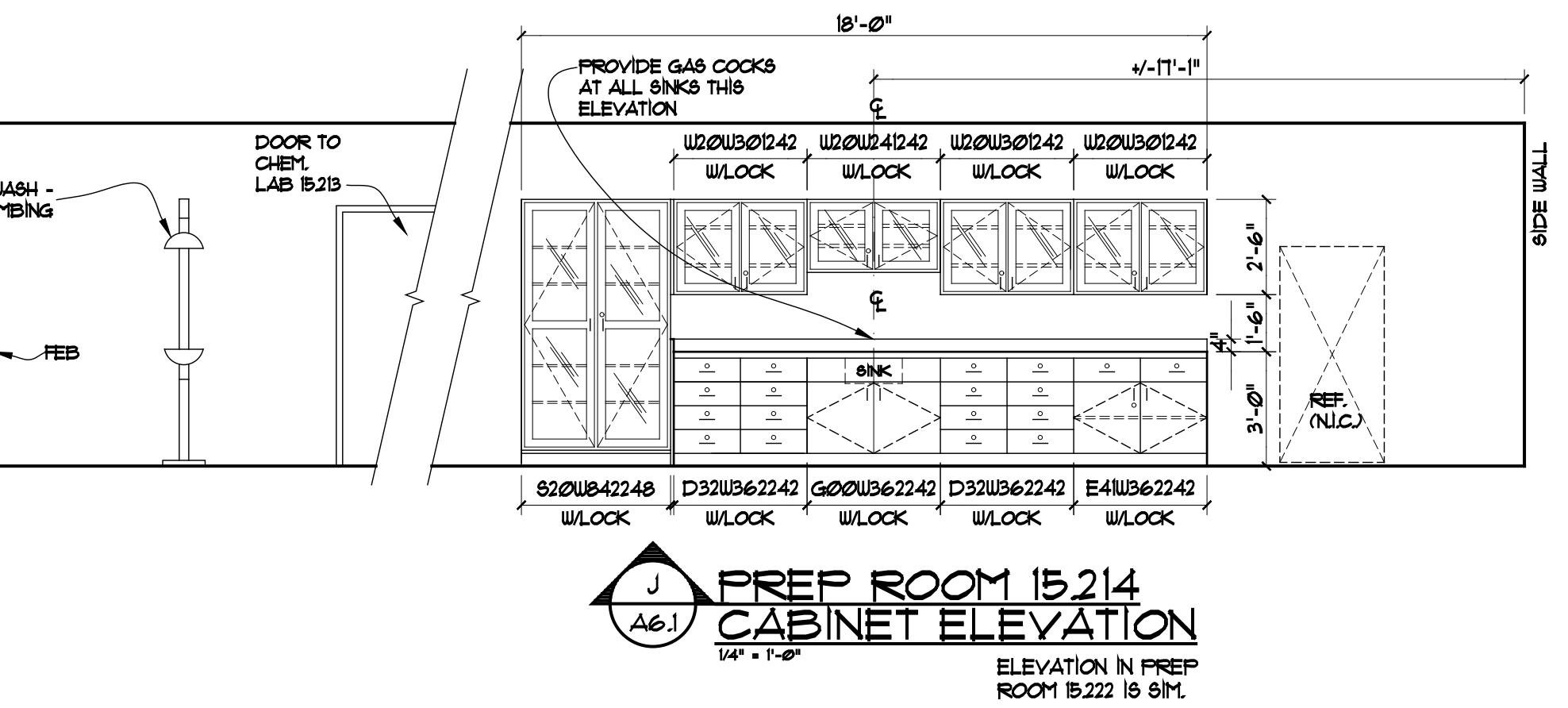
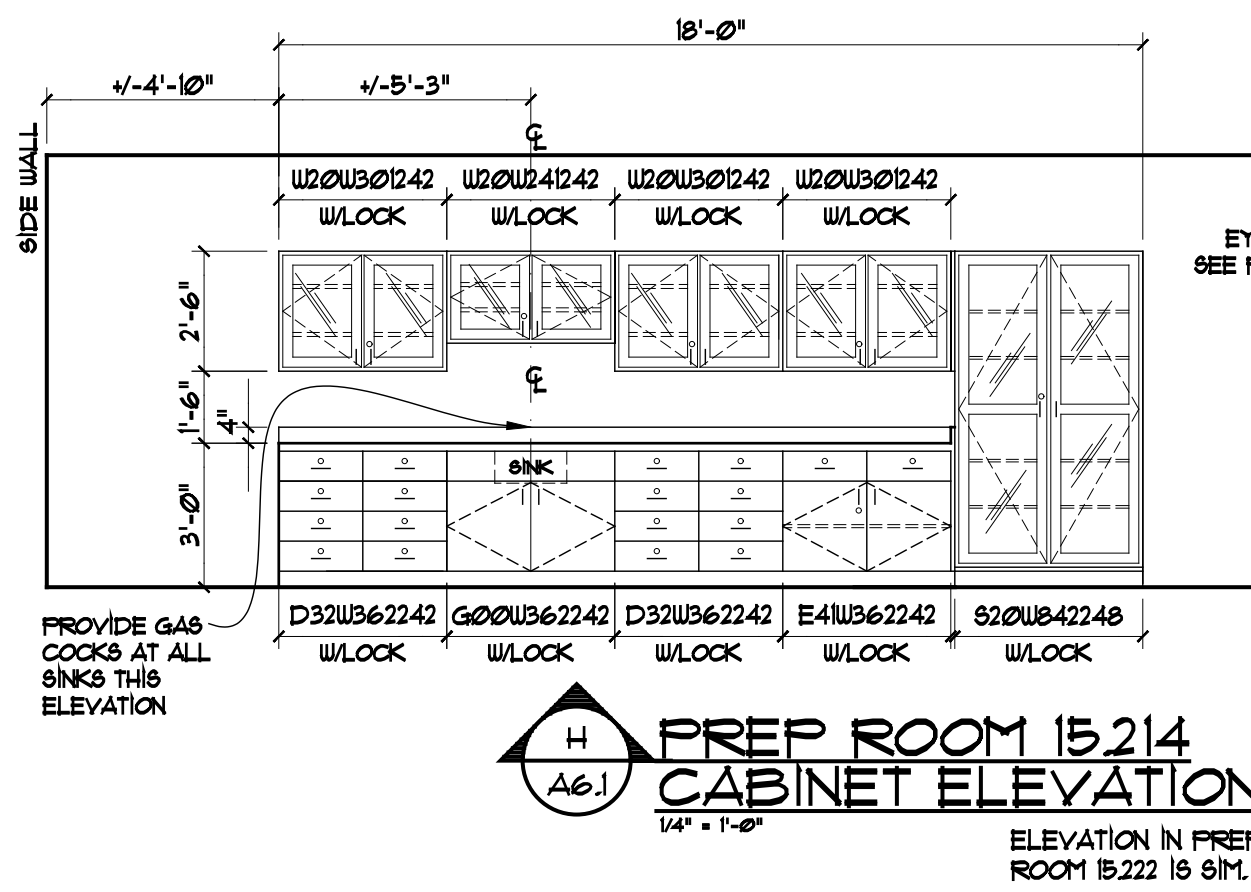
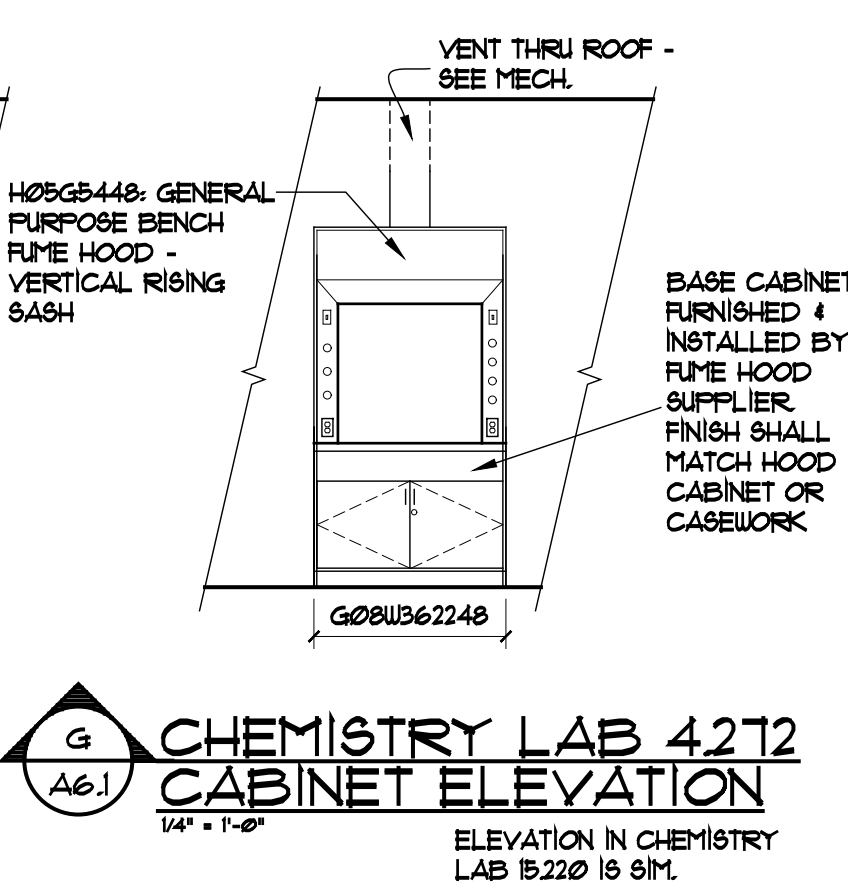
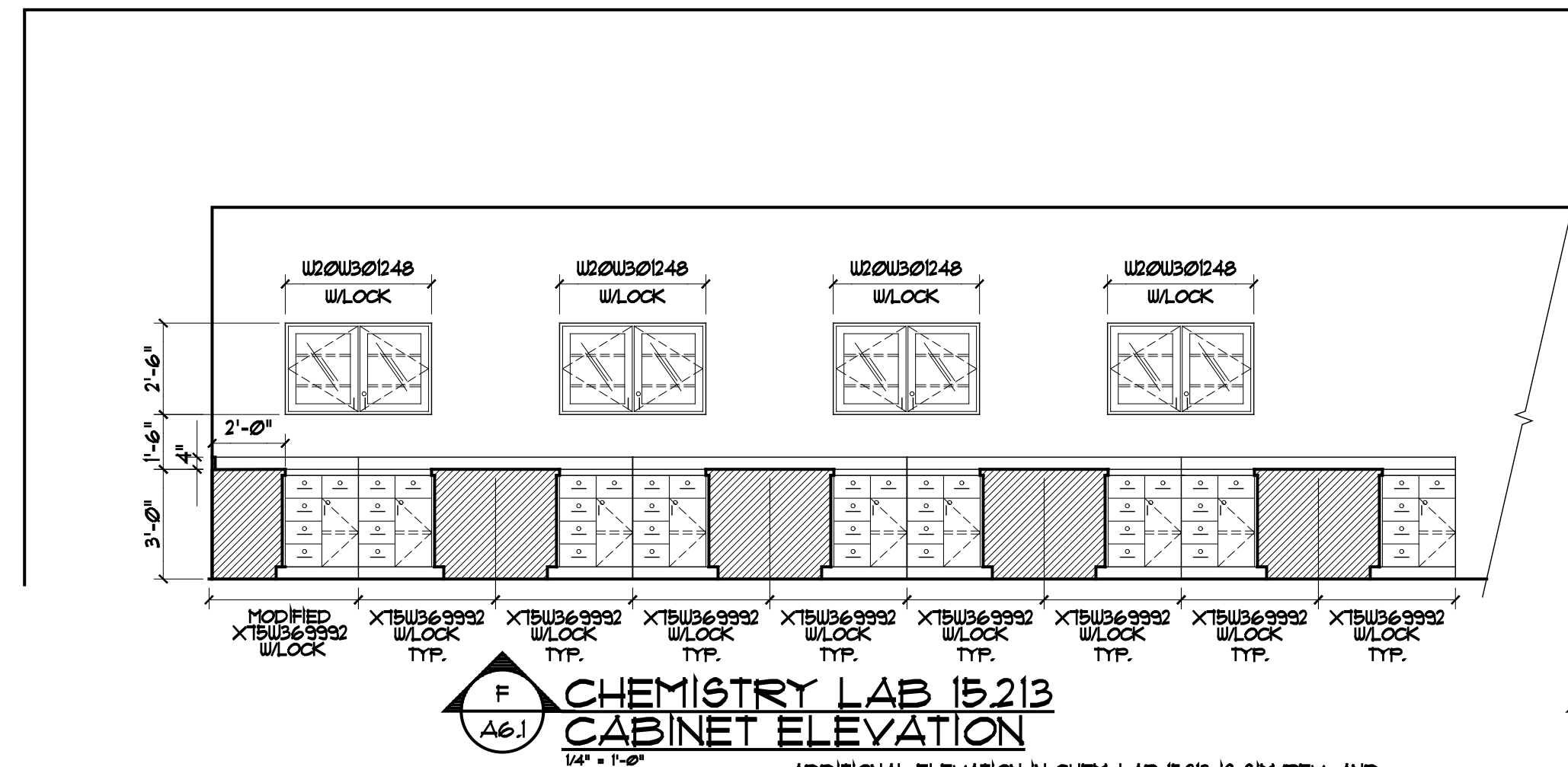


CASEWORK ELEVATIONS

DATE:	REVISIONS:	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/30/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	



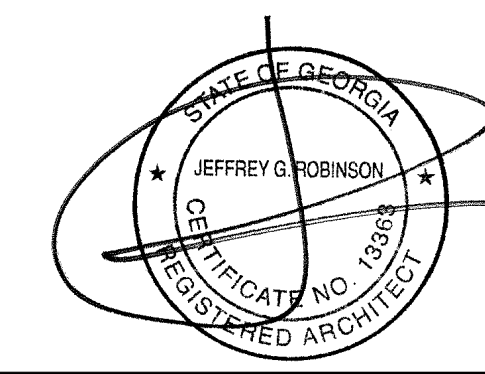
SCIENCE CASEWORK ELEVATIONS



ALL SCIENCE LABORATORY CASEWORK NUMBERS SHOWN REFER TO KEWANEE CASEWORK CATALOG, AND ARE FOR REFERENCE ONLY.

NOTES:

- ALL SINK CABINETS SHALL HAVE ACCESSIBLE REAR PANEL.
- ALL CABINET DOORS AND DRAWERS SHALL HAVE LOCKS, (EXCEPT DOORS AT SINKS).
- TYP. AT ALL CASEWORKS, CARPENTRY, ETC. TO BE SECURED TO WALLS. USE STEEL EXPANSION SHIELDS - DO NOT USE PLASTIC SHIELDS.
- TYPICAL AT ALL PREP ROOM DOORS - MOUNT ENGRAVED SIGN STATING "FIRE EXTINGUISHER LOCATED IN THIS ROOM". LAYOUT OF SIGNS TO BE SIMILAR TO TYPICAL ROOM SIGN (SEE DETAIL 24/A4.2)



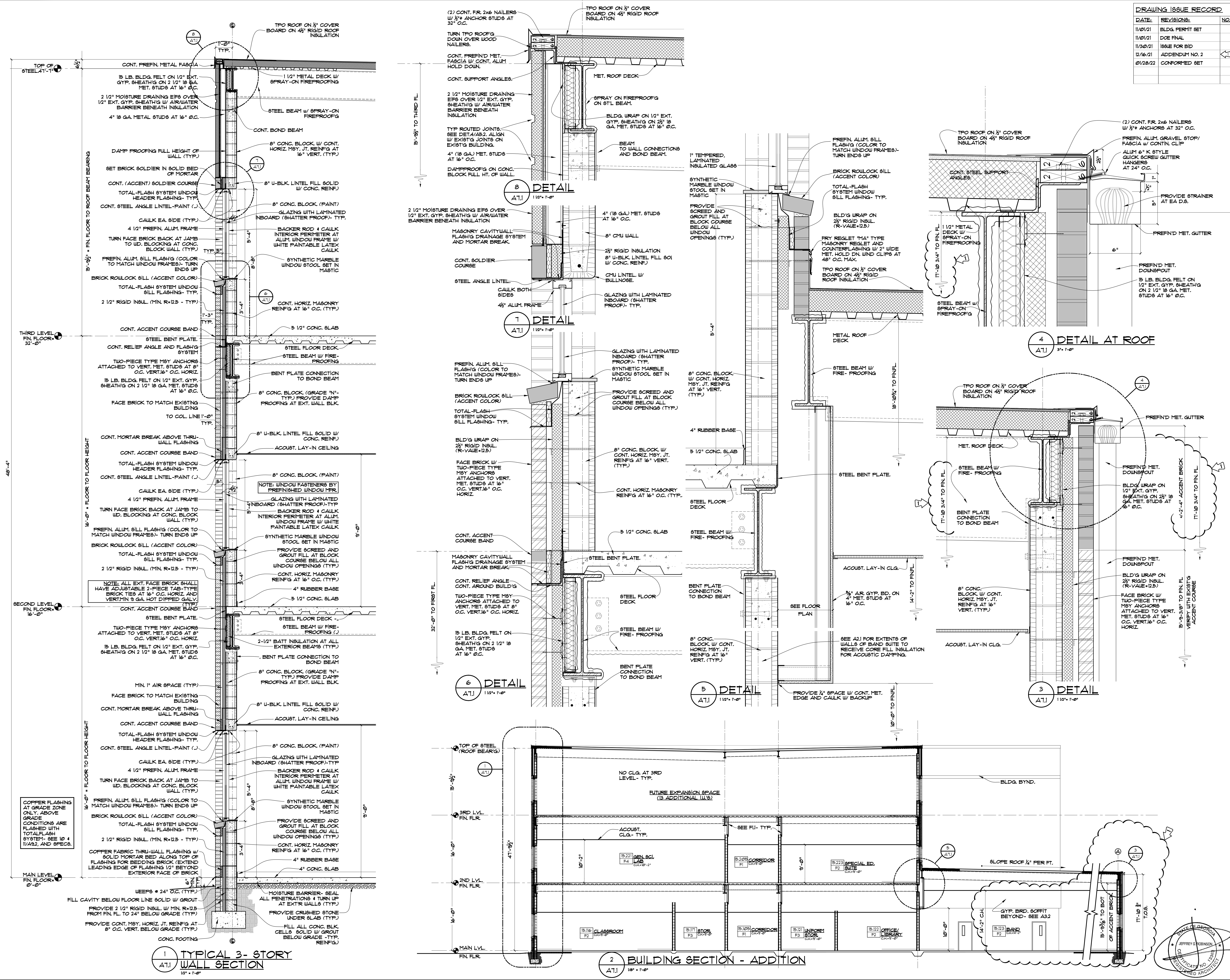
**cunningham forehand mcdonough moore**  
 FACILITY CODE 667-4556  
 NORTH GWINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 PREP BY: J.R. T.H.T.  
 CHECKED BY: M.U.T.A.P.  
 DATE: MARCH 1, 2021  
 JOB NO.: SHL-1520-21  
 CUNNINGHAM, FOREHAND, MATTHEWS & MOORE, ARCHITECTS, INC. - 2011 MANCHESTER STREET, N.E. - ATLANTA, GEORGIA 30324 - PHONE (404) 873-2152  
**A6.1**

DATE	REVISIONS	NO.
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**A7.1**



**1 TYPICAL 3-STORY WALL SECTION**  
1/2" = 1'-0"

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

**4 DETAIL AT ROOF**  
3/4" = 1'-0"

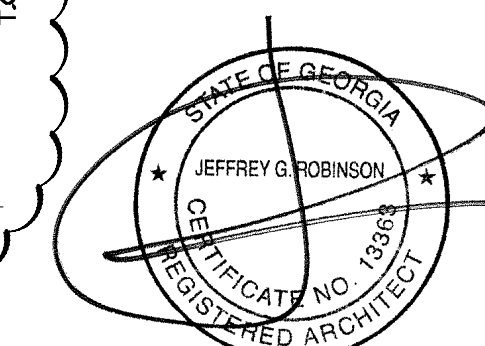
**3 DETAIL**  
1/2" = 1'-0"

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

**6 DETAIL**  
1/2" = 1'-0"

**DETAIL**  
1/2" = 1'-0"

**DETAIL**  
1/2" = 1'-0"



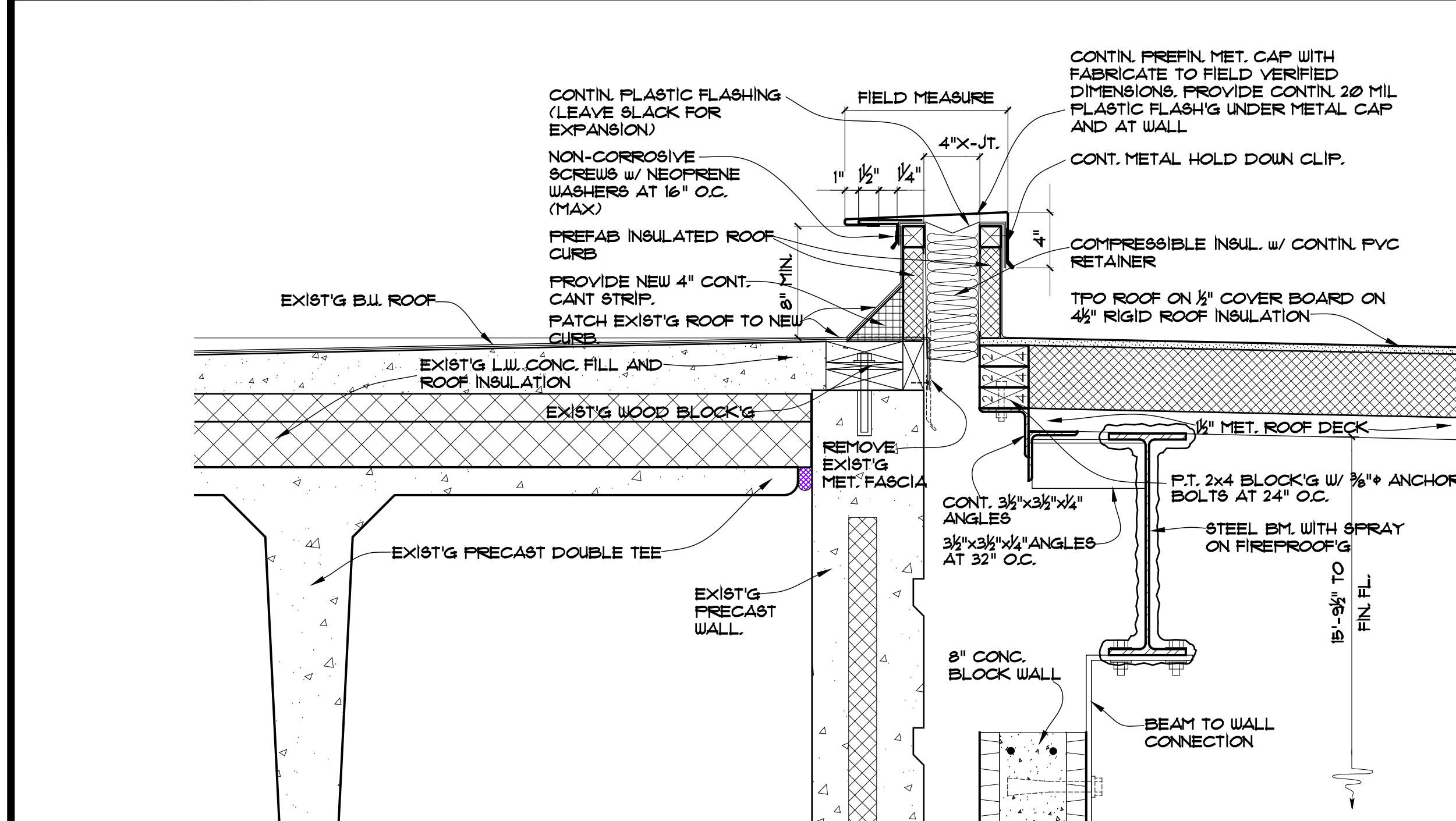
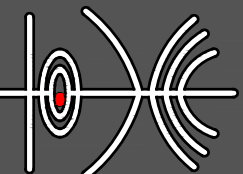
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FACILITY CODE 66T-4556

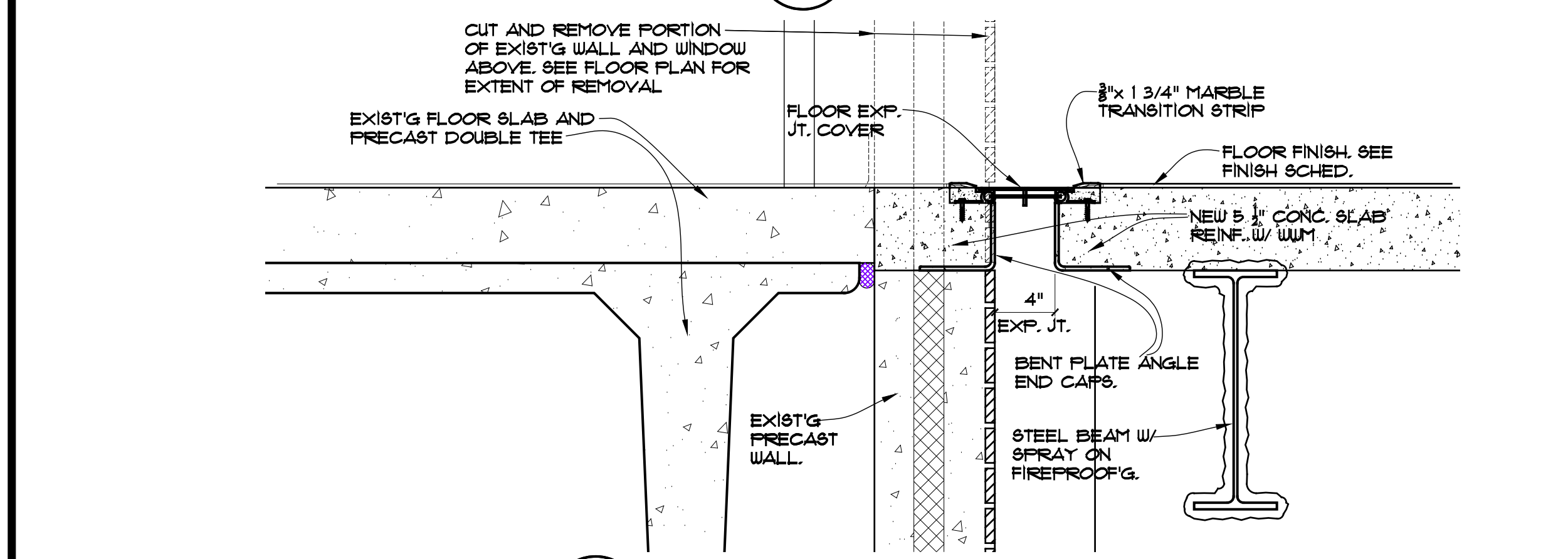
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**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
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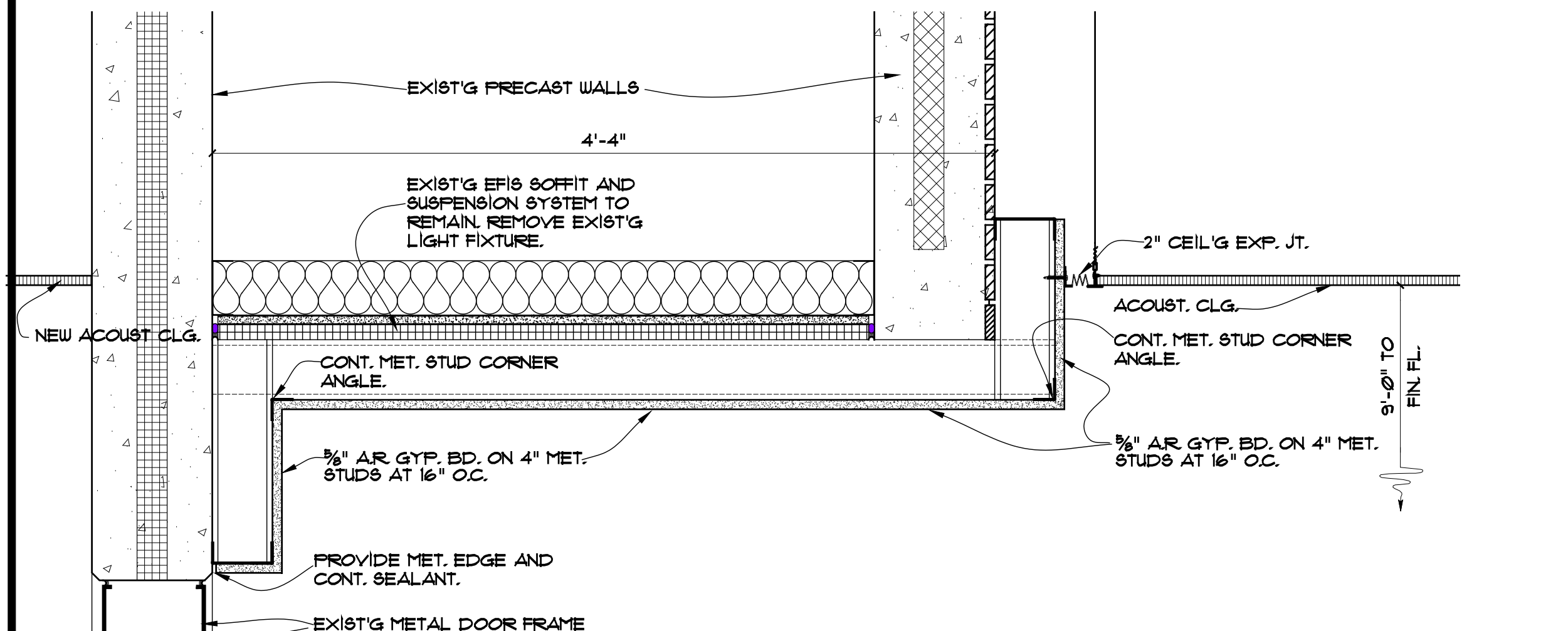
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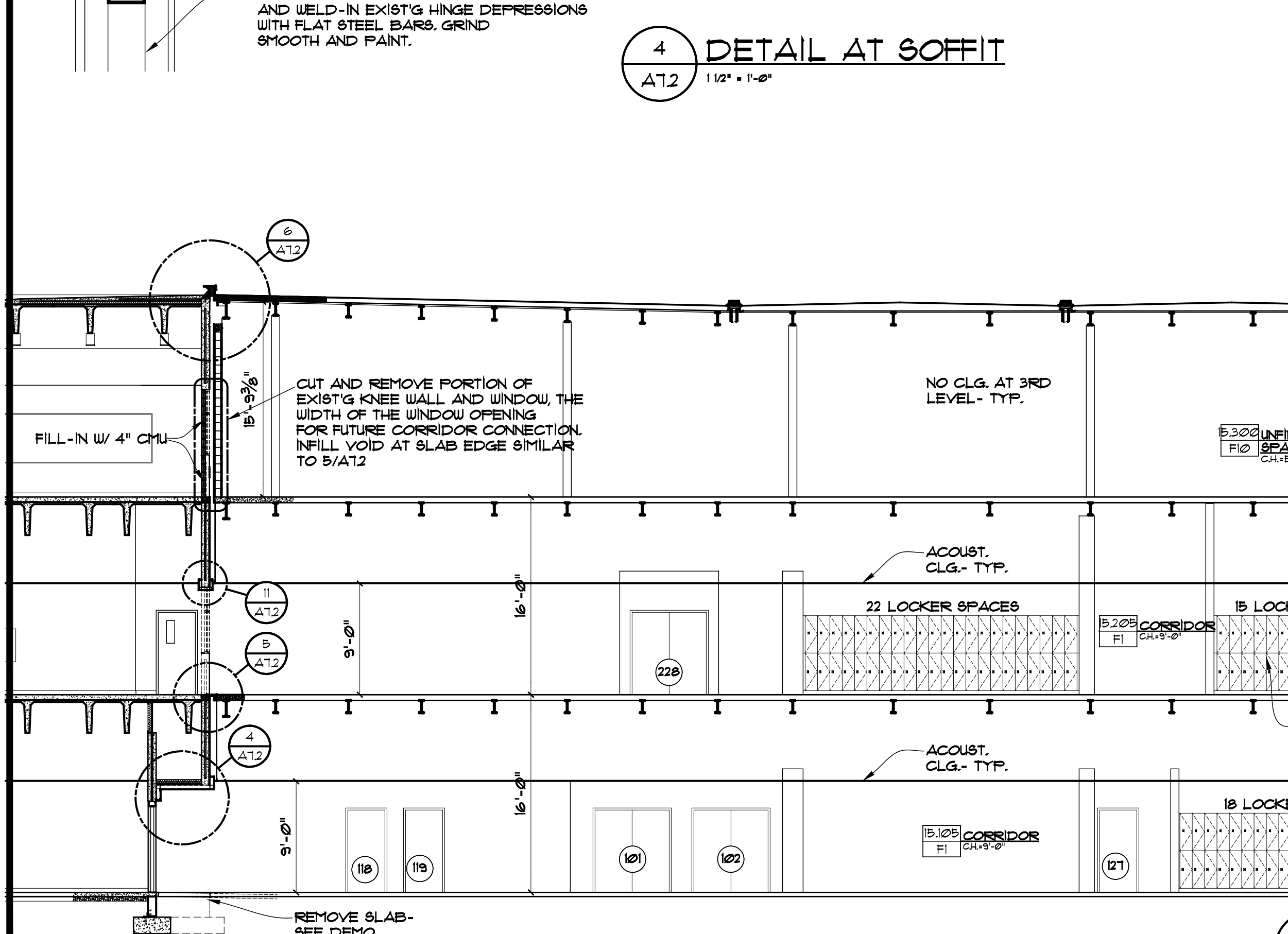
**6 DETAIL AT ROOF**  
 A12 1'-0\"/>



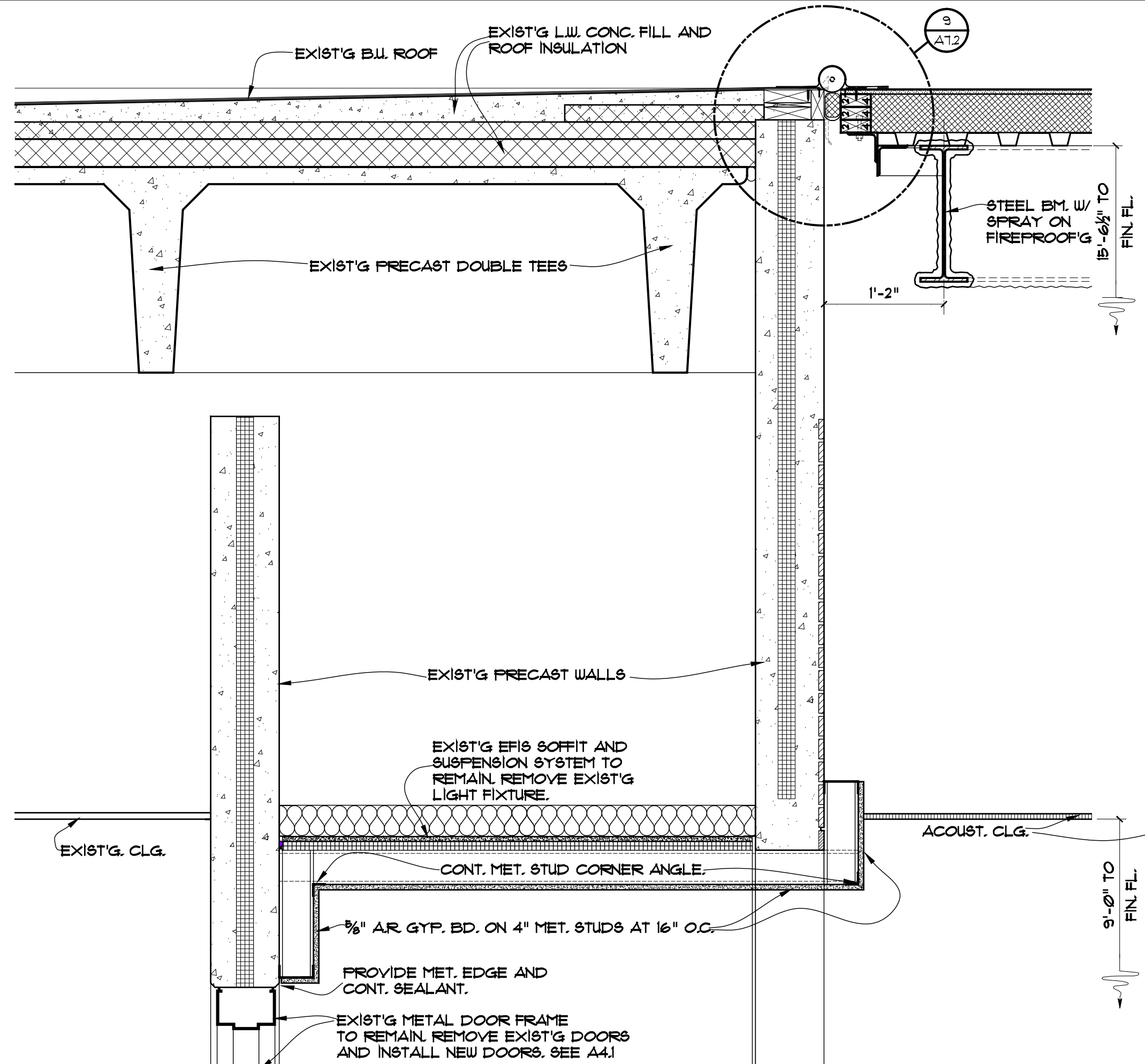
**5 DETAIL AT ELEVATED SLAB**  
 A12 1'-0\"/>



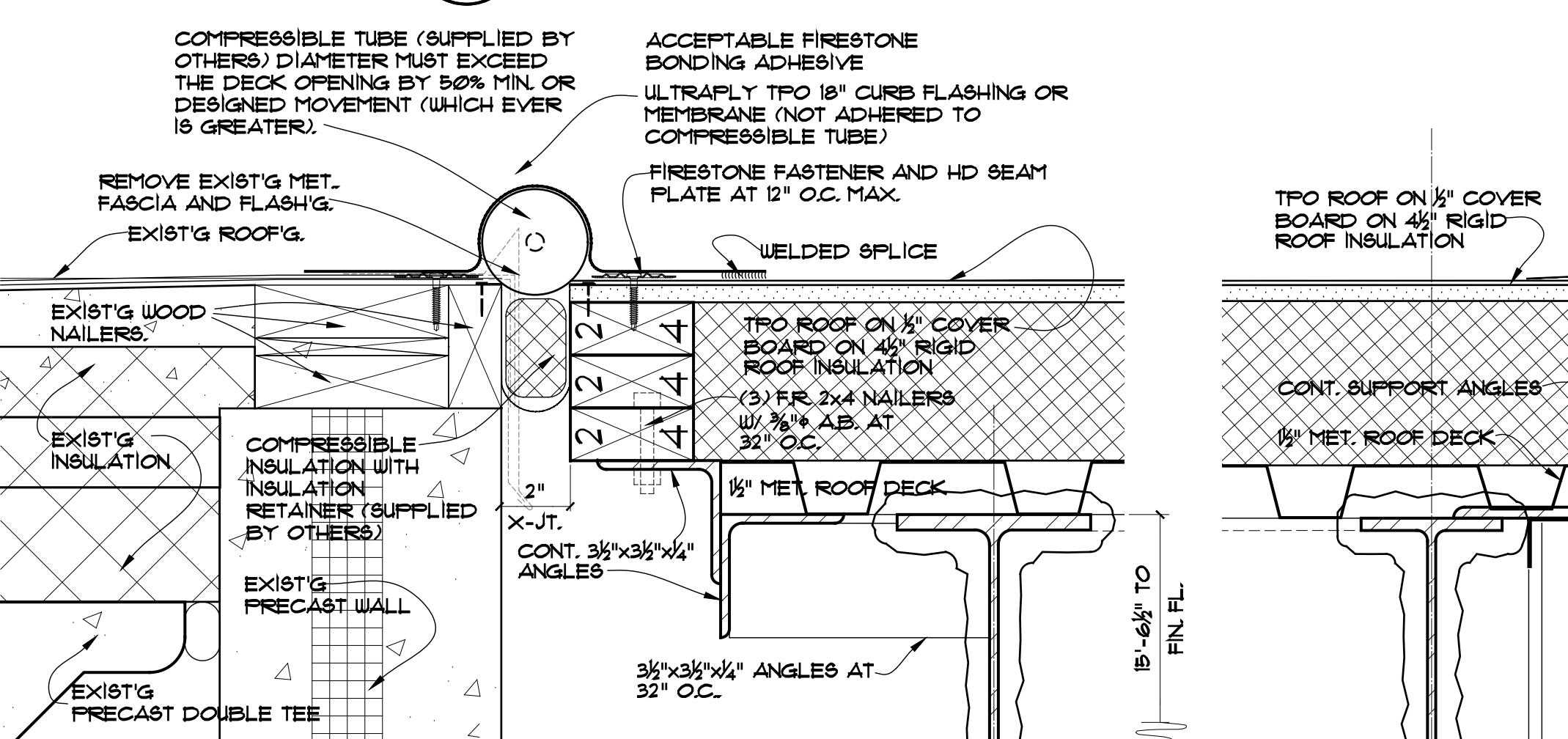
**4 DETAIL AT SOFFIT**  
 A12 1'-0\"/>



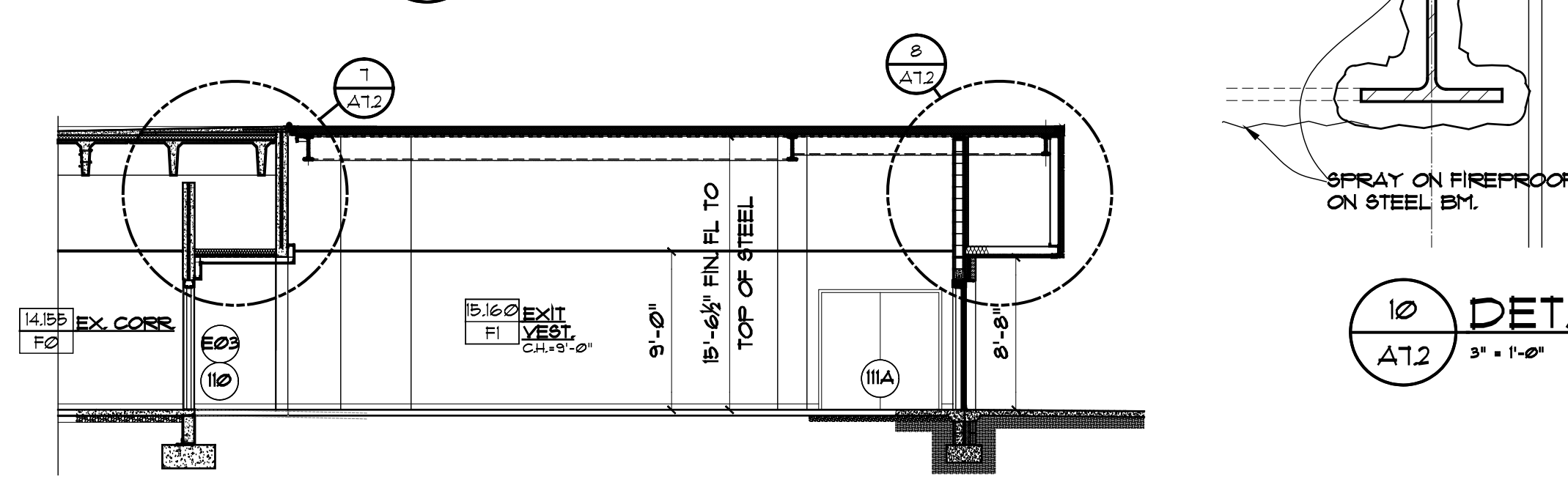
**1 BUILDING SECTION - ADDITION**  
 A12 1'-0\"/>



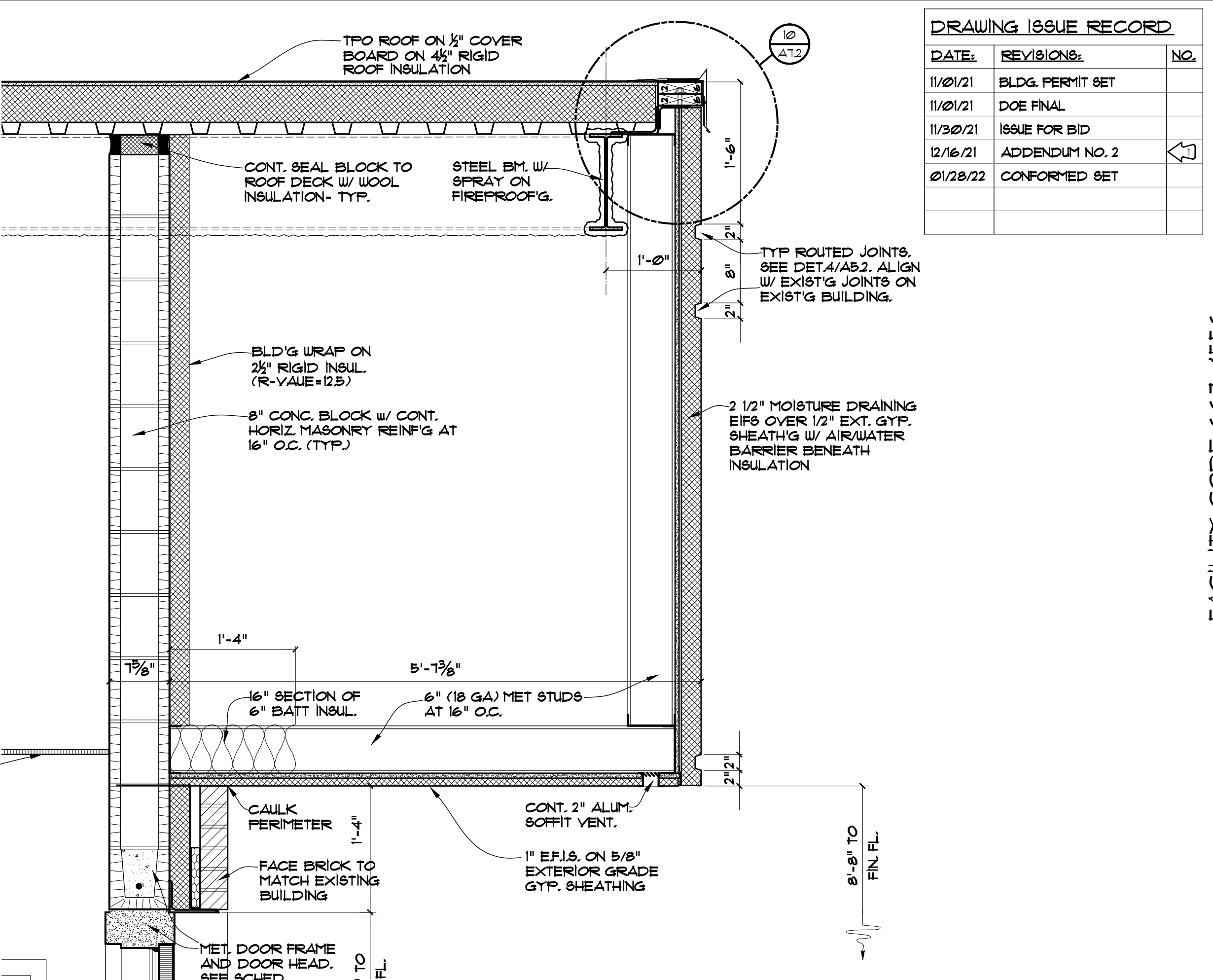
**7 DETAIL AT SOFFIT/ROOF**  
 A12 1'-0\"/>



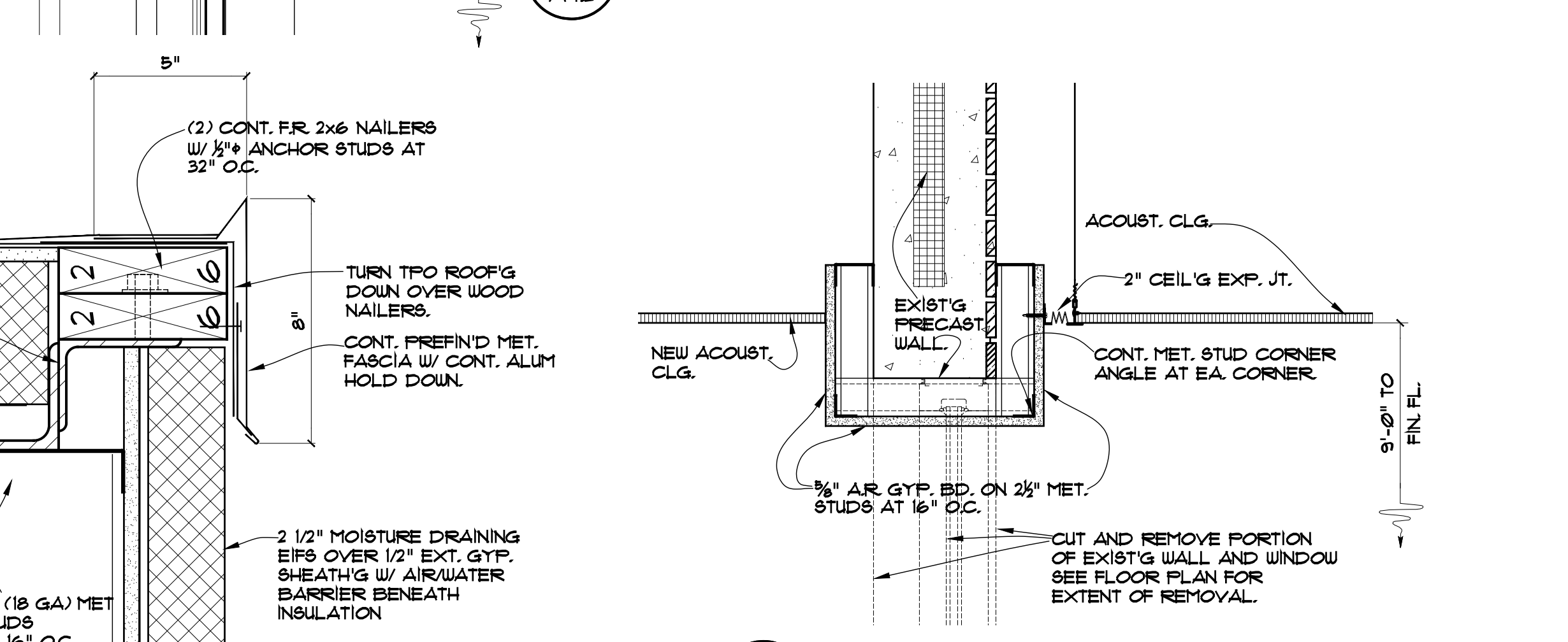
**9 DETAIL AT ROOF**  
 A12 3\"/>



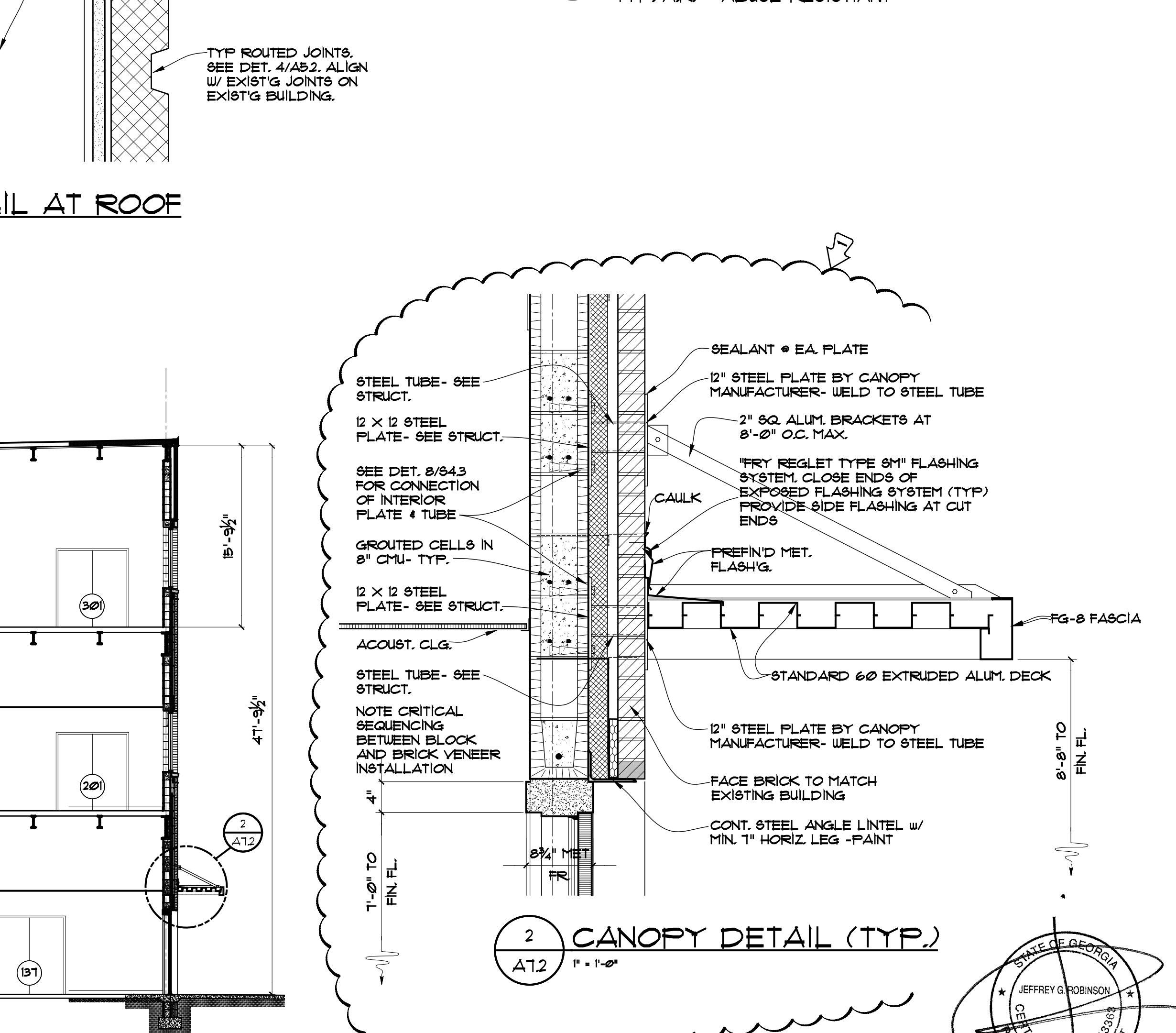
**10 DETAIL AT ROOF**  
 A12 3\"/>



**8 DETAIL AT SOFFIT/ROOF**  
 A12 1'-0\"/>

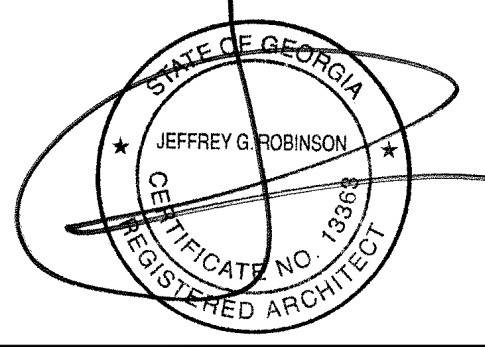


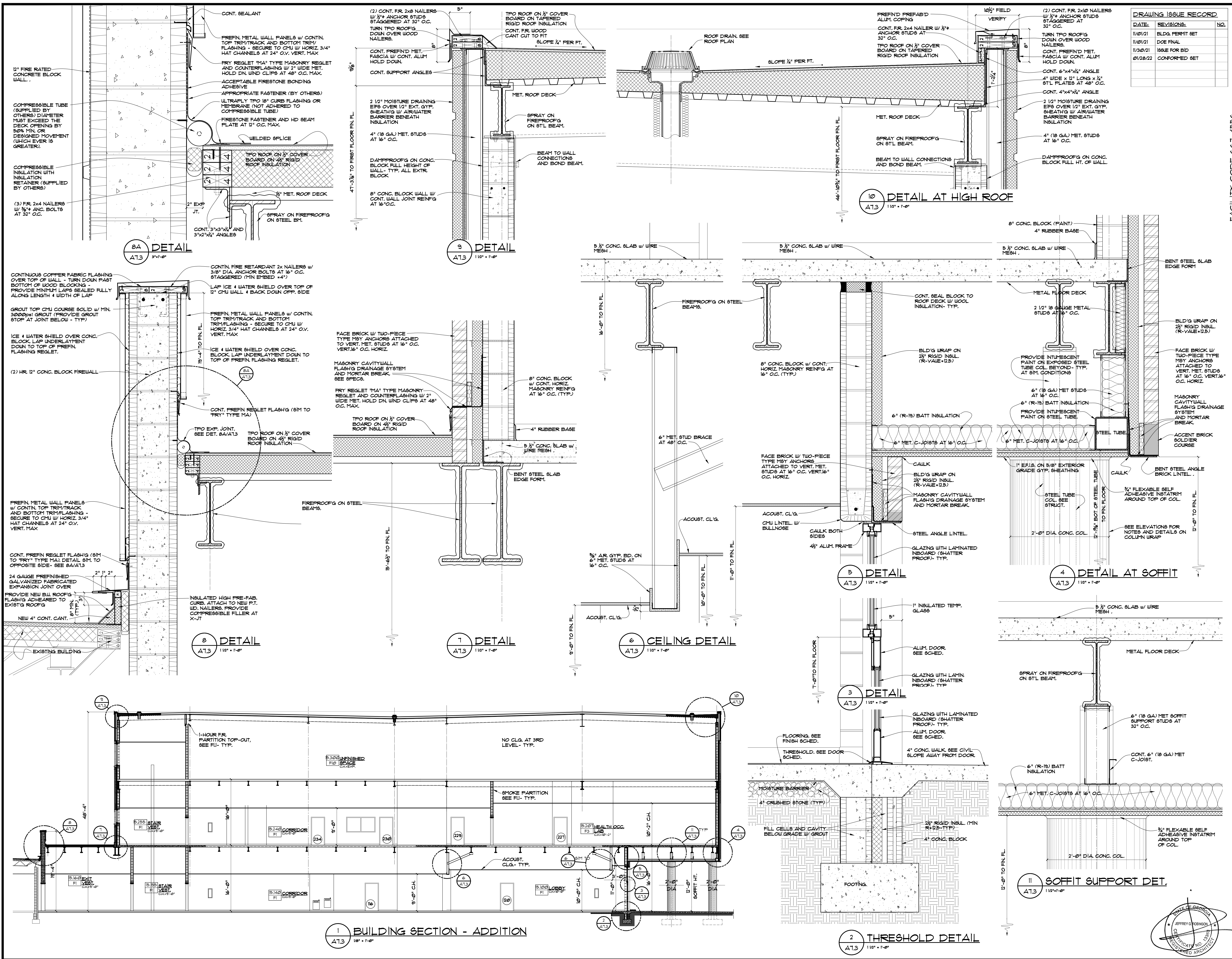
**11 DETAIL AT SOFFIT**  
 A12 1'-0\"/>



**2 CANOPY DETAIL (TYP.)**  
 A12 1'-0\"/>

**3 BUILDING SECTION - ADDITION**  
 A12 1'-0\"/>





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**cunningham, forehand, matthews & moore**  
 architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE: MARCH 1, 2022  
 SHEET NO.: 941-D02-21  
 DESIGNED BY: MTT, AP  
 CHECKED BY: JRM, TMT

REGISTERED ARCHITECT  
 STATE OF GEORGIA  
 NO. 10083

**A7.3**

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NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DES. BY  
JR. H.M.

INTS. BY  
M.M.T. AP

ISS. US.  
S.H.L.-D-21

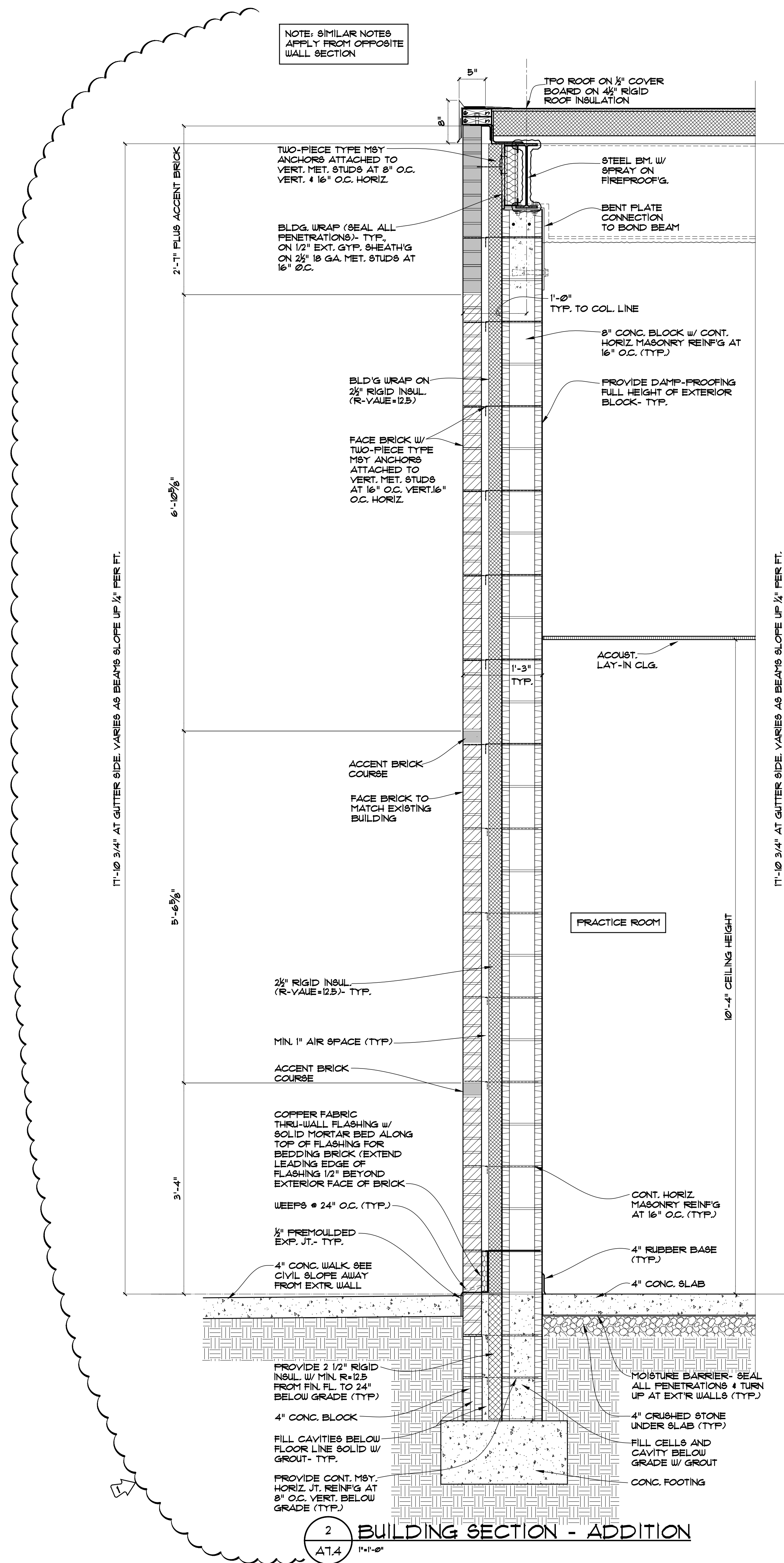
DATE  
MARCH 1, 2021

PROJECT NO.  
30324-2152

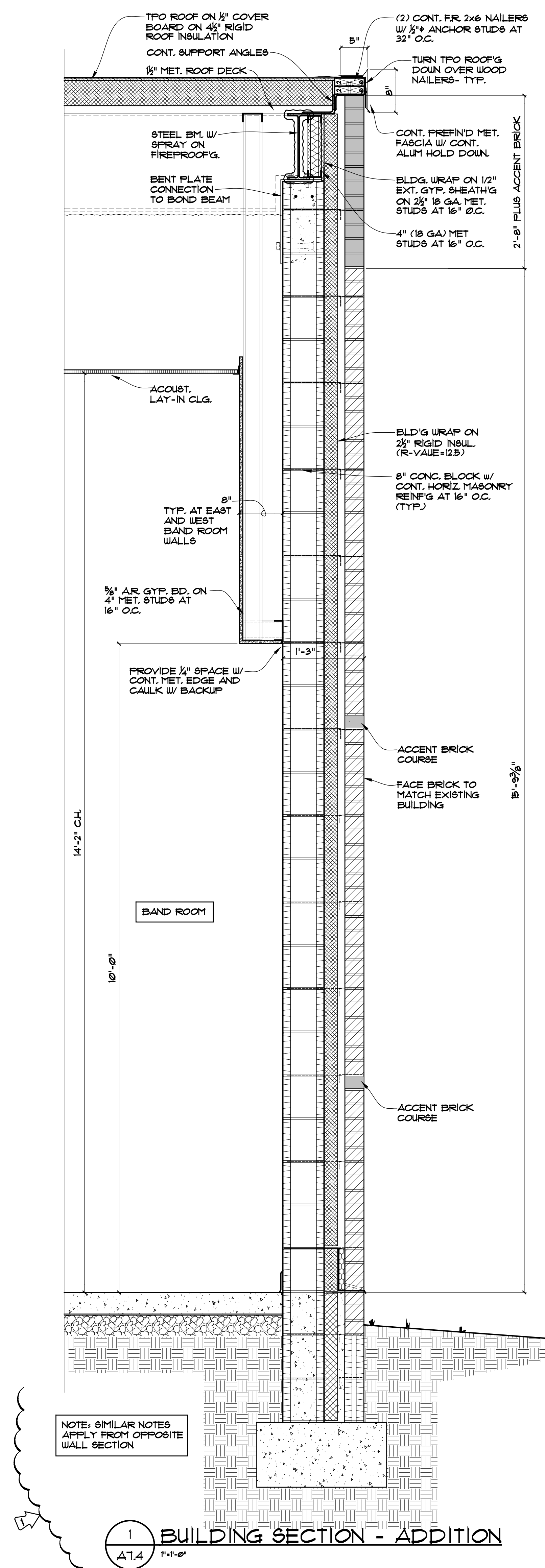
**cunningham foehand matthews moore**

cunningham, foehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

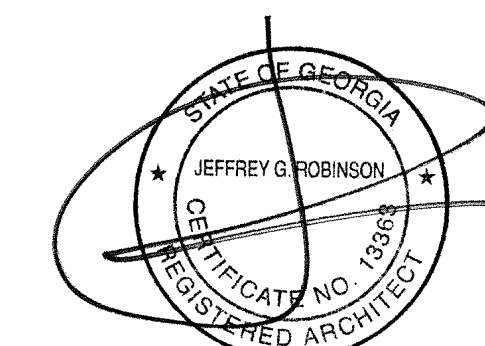
A7.4

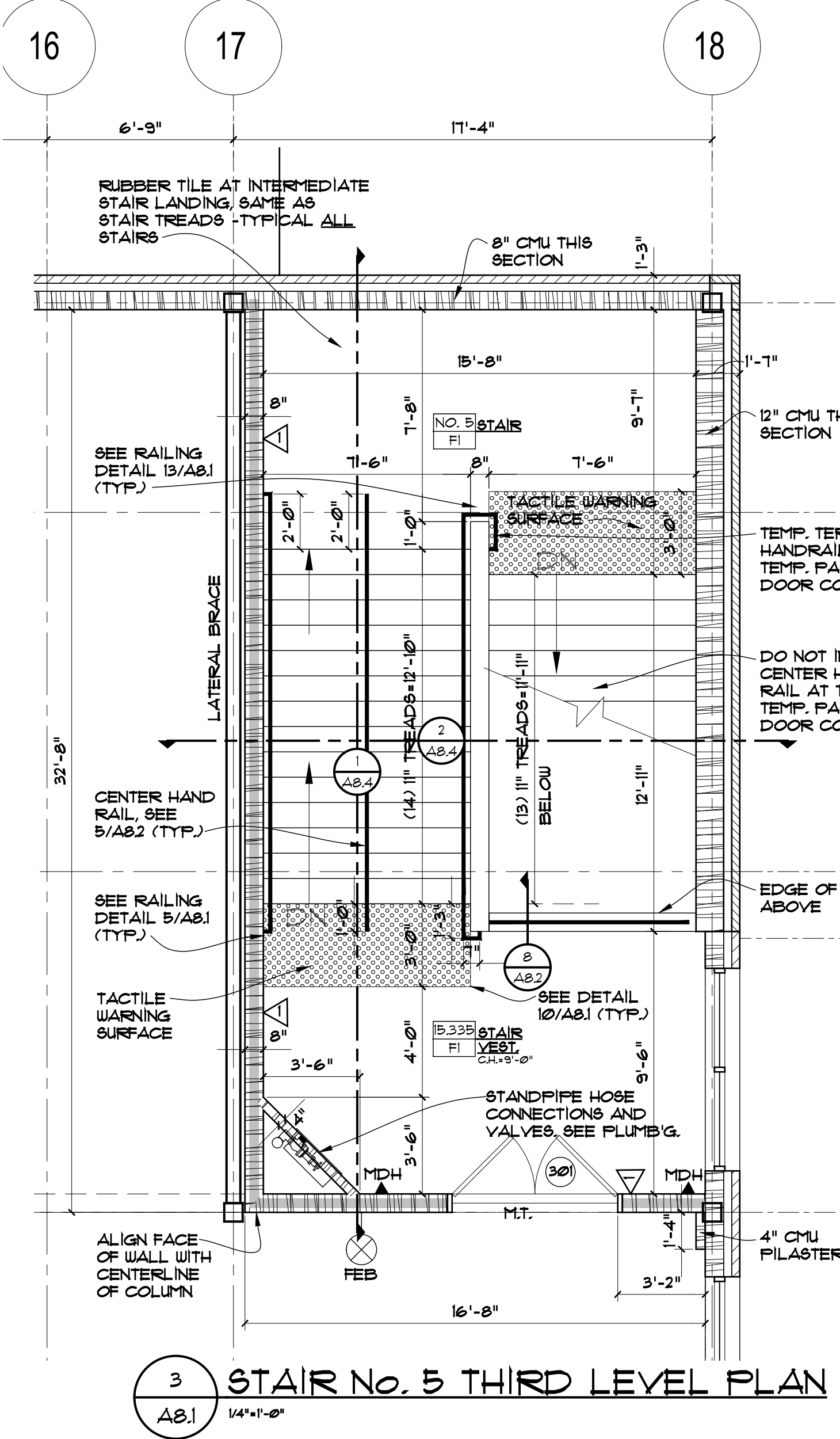


2 BUILDING SECTION - ADDITION  
A7.4 1/4"=1'-0"

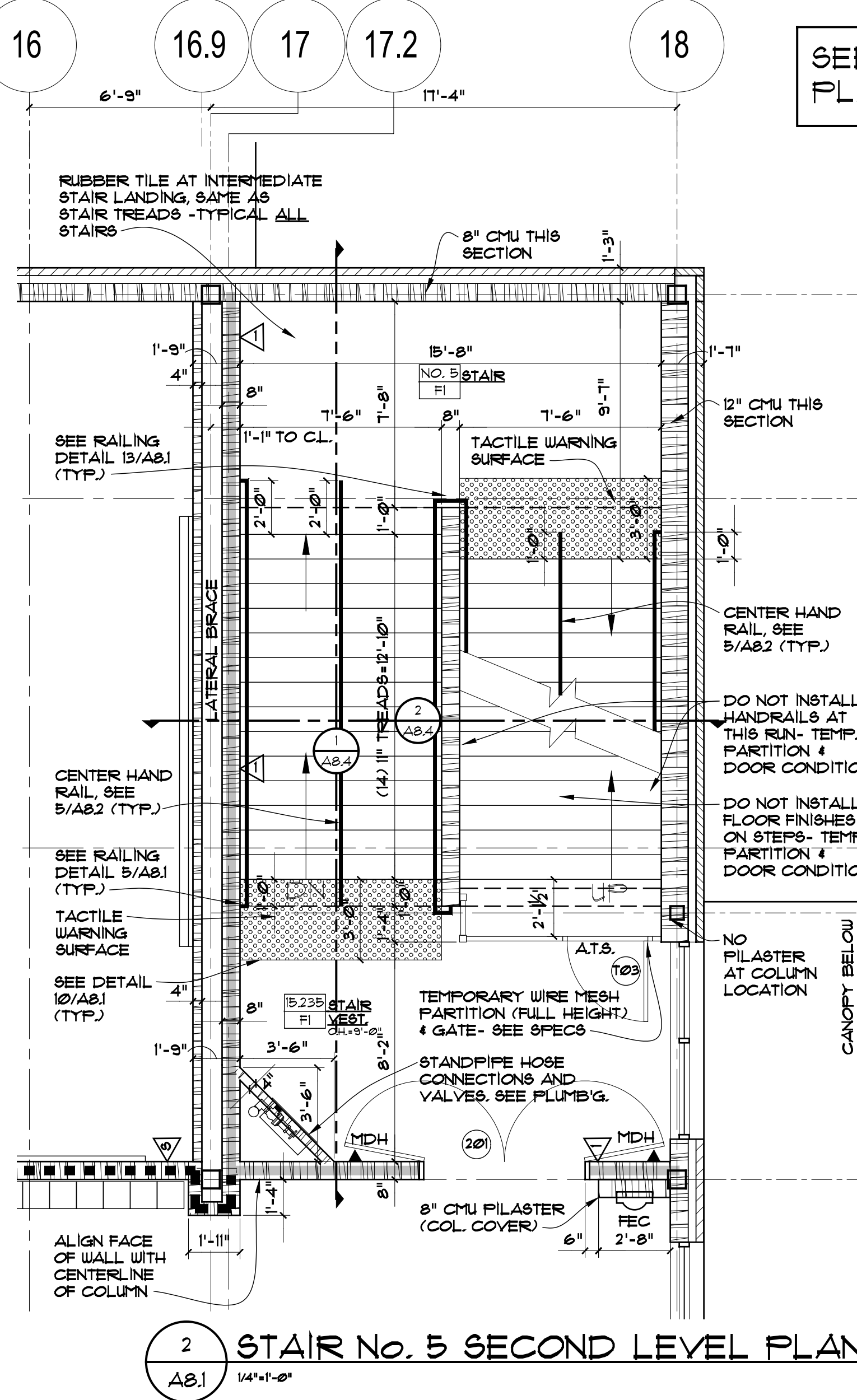


1 BUILDING SECTION - ADDITION  
A7.4 1/4"=1'-0"

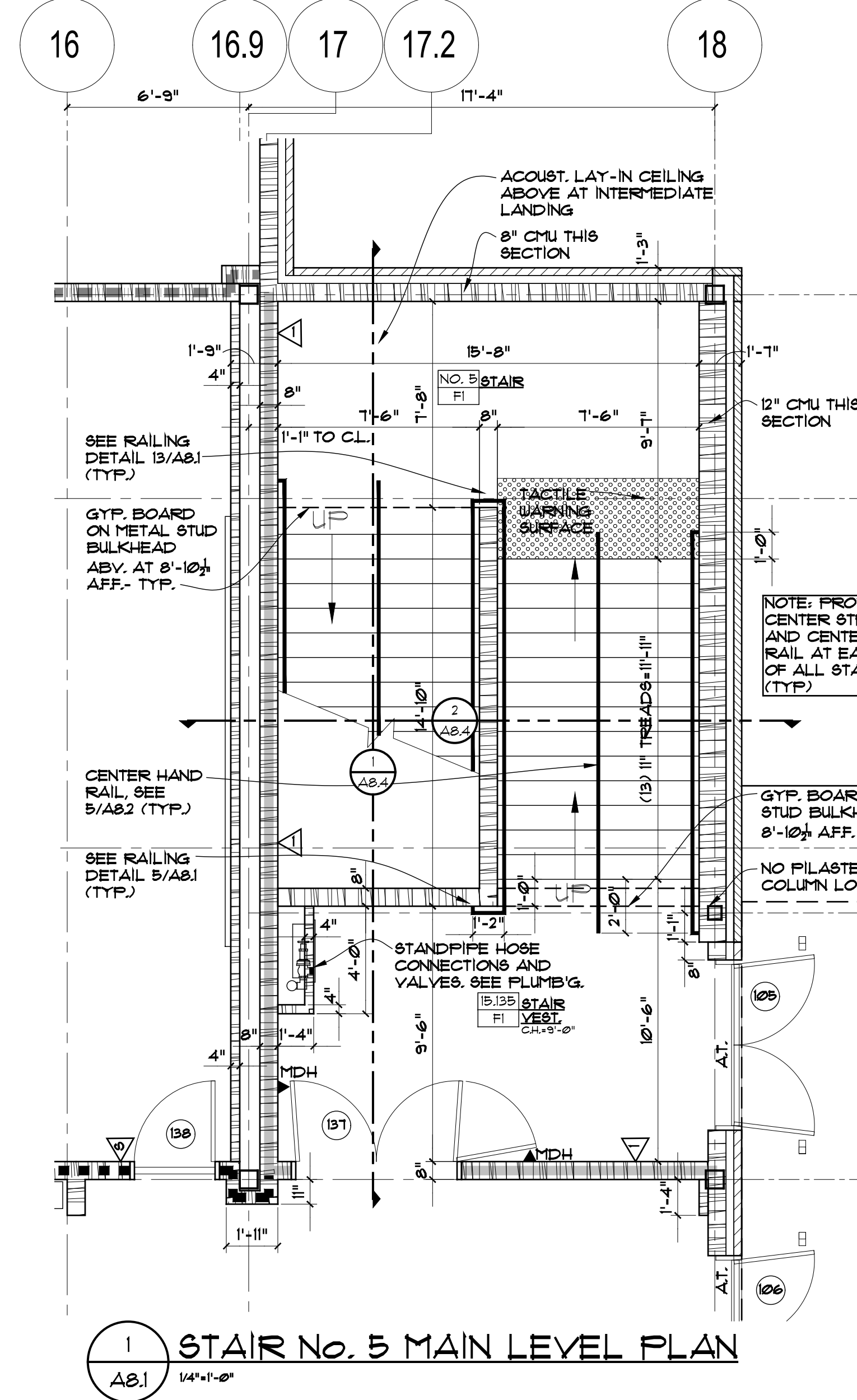




3 STAIR No. 5 THIRD LEVEL PLAN  
1/4\"/>



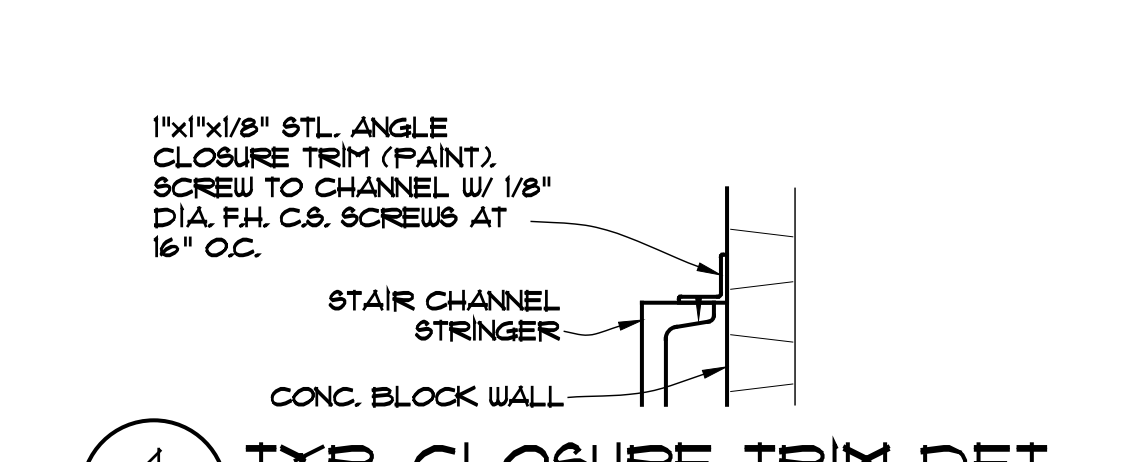
2 STAIR No. 5 SECOND LEVEL PLAN  
1/4\"/>



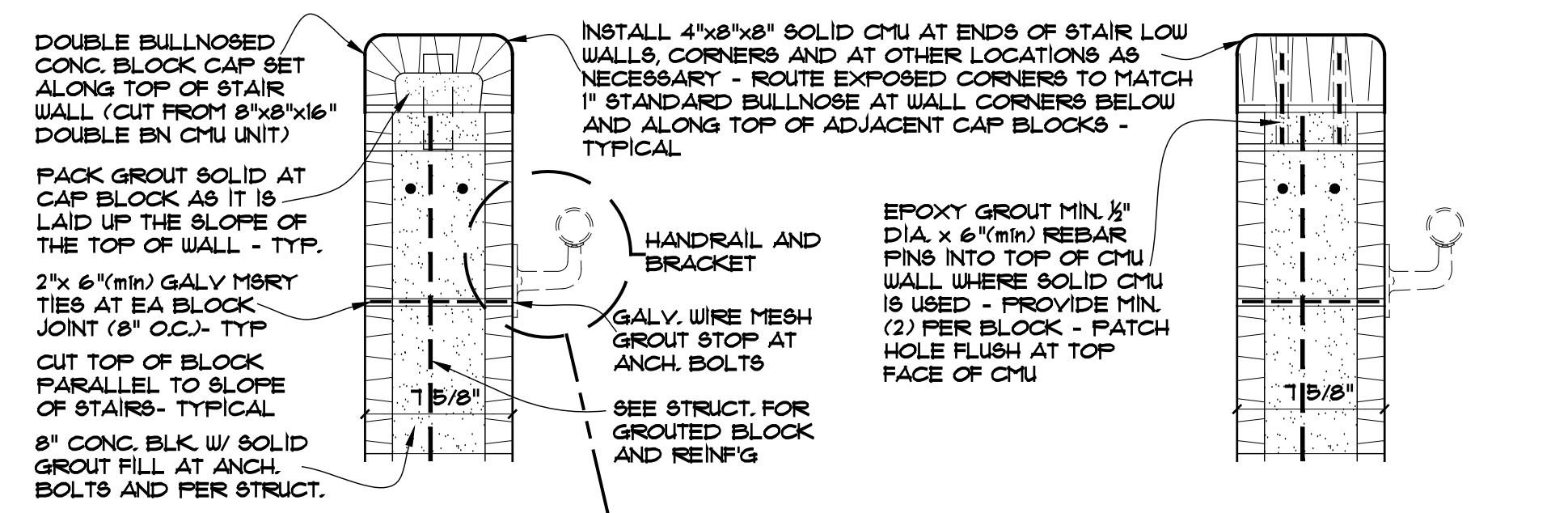
1 STAIR No. 5 MAIN LEVEL PLAN  
1/4\"/>

SEE A8.2 FOR PLAN LEGEND

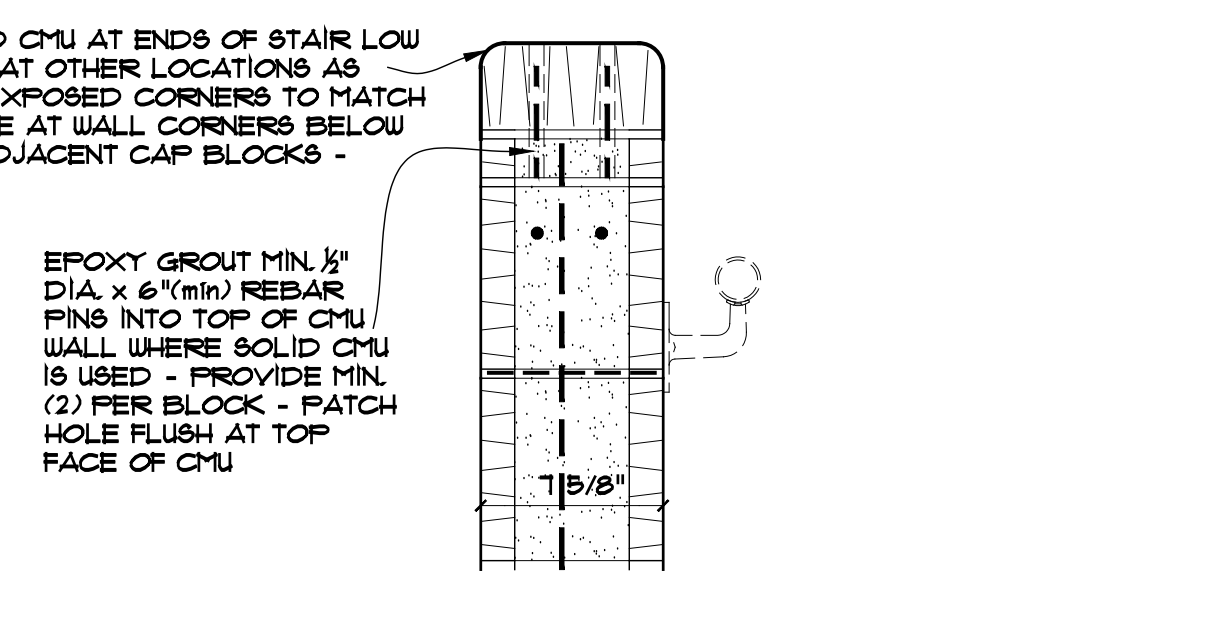
DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/30/21	ISSUE FOR BID	
02/28/22	CONFORMED SET	



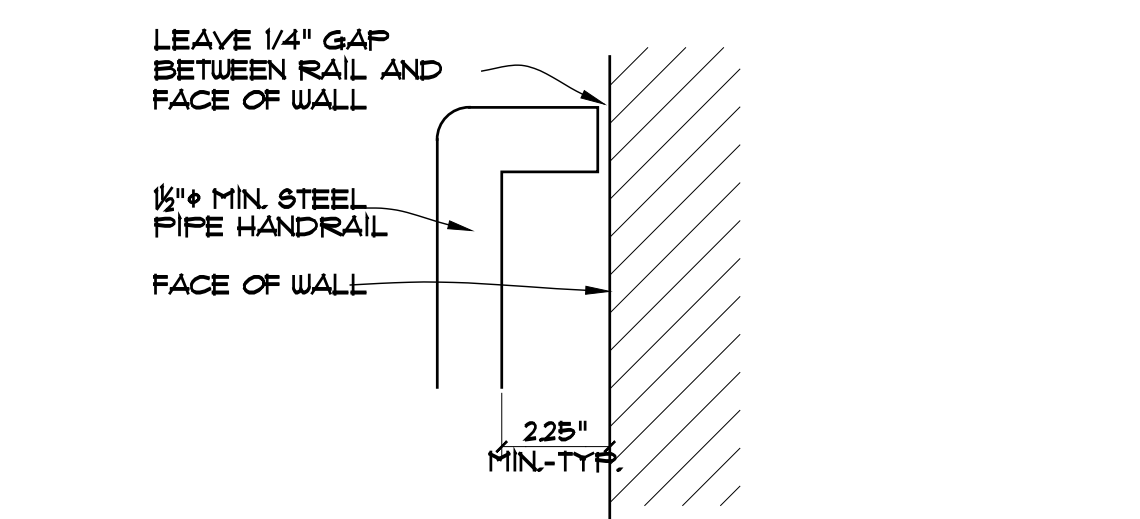
4 TYP. CLOSURE TRIM DET. AT STEPS' CHN'L STRINGER  
3\"/>



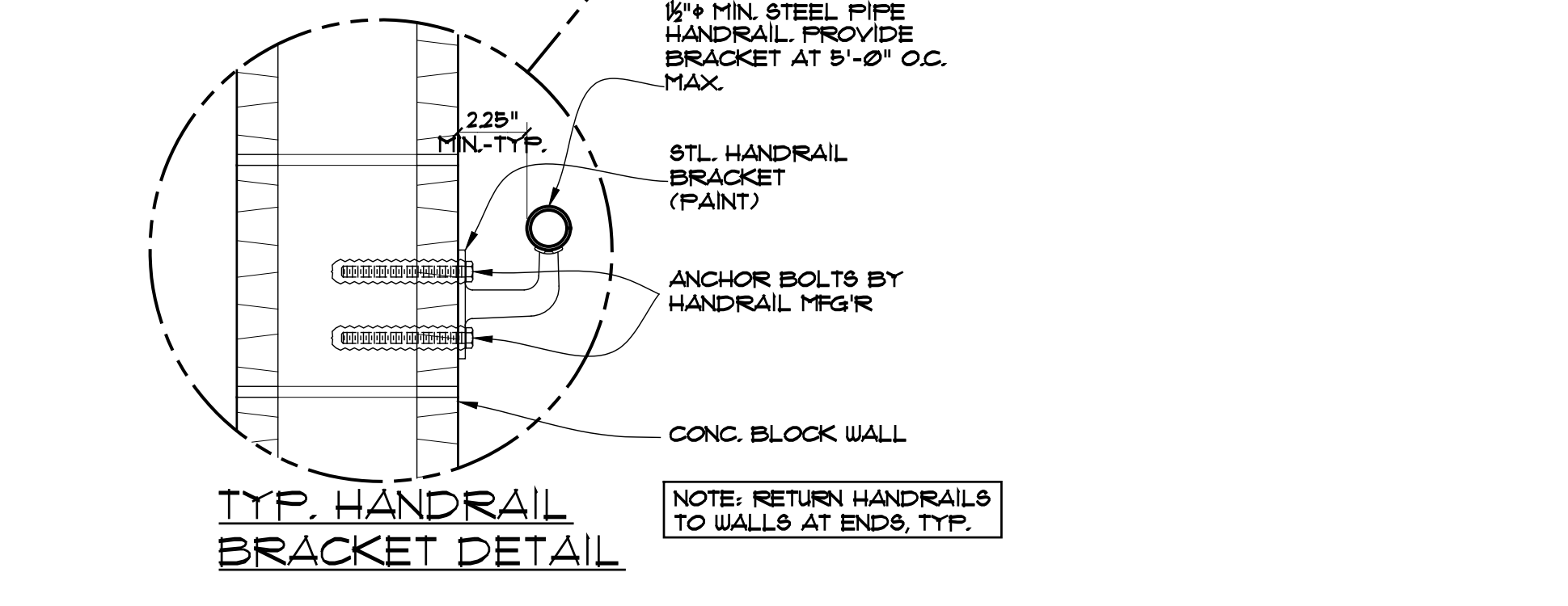
1 CMU WALL DET. AT STAIRS  
1 1/2\"/>



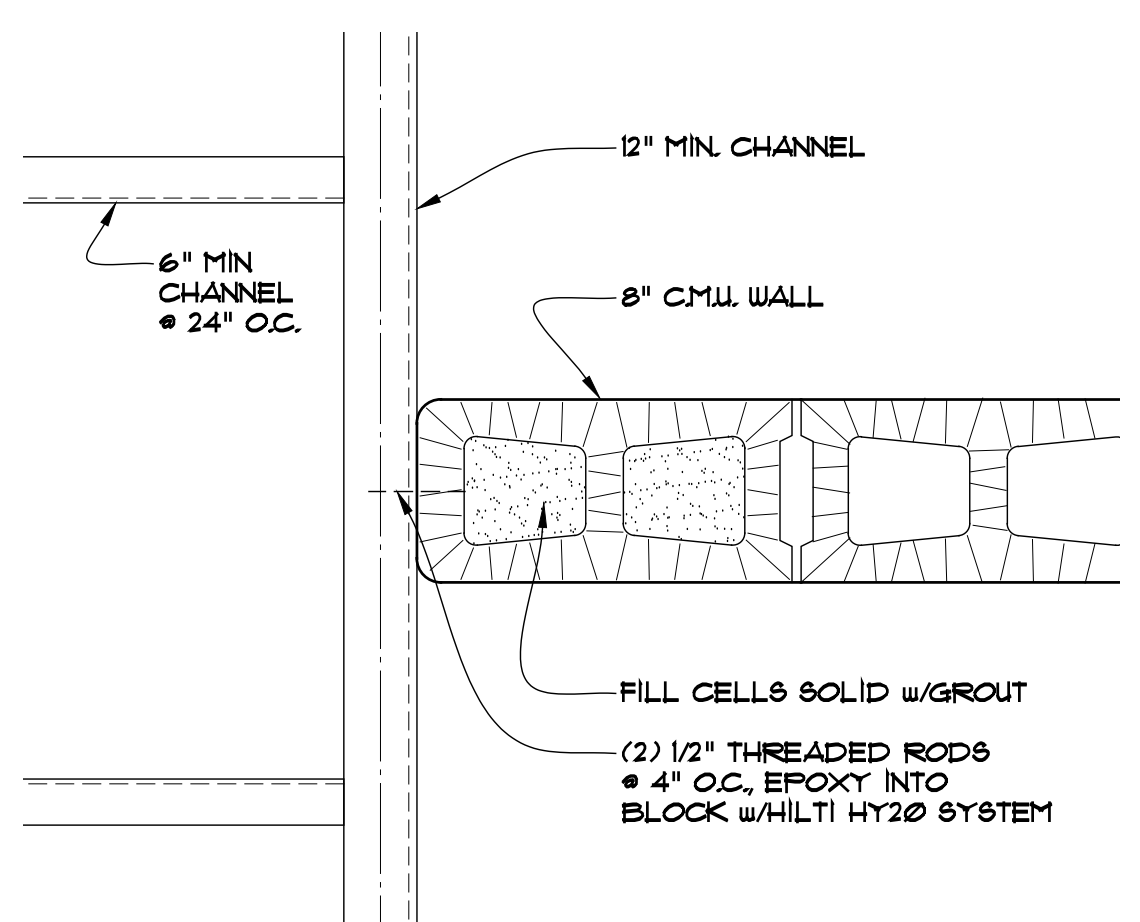
2 CMU CAP DETAIL AT STAIR / BALCONY WALLS  
1 1/2\"/>



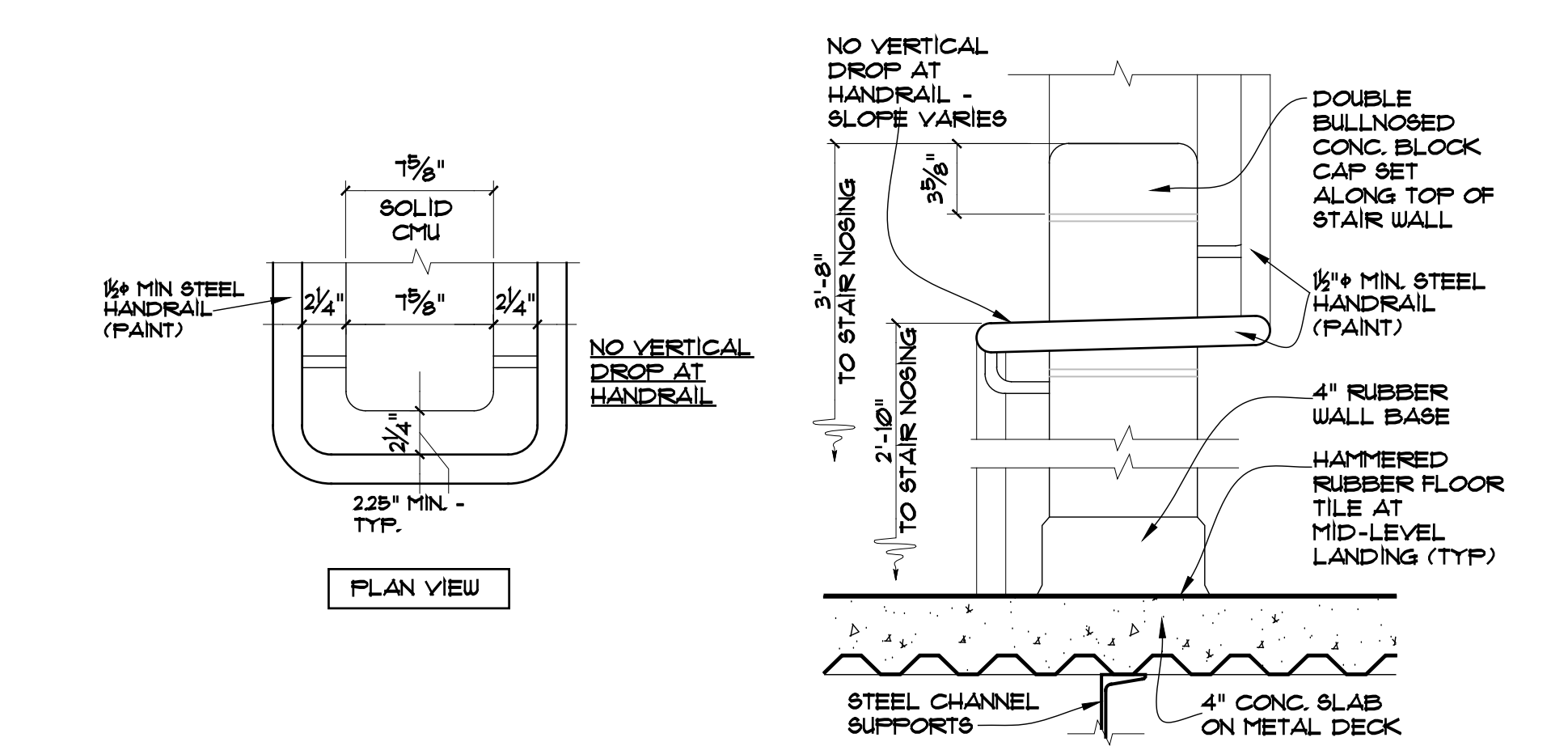
5 TYPICAL HAND RAIL RETURN  
1 1/2\"/>



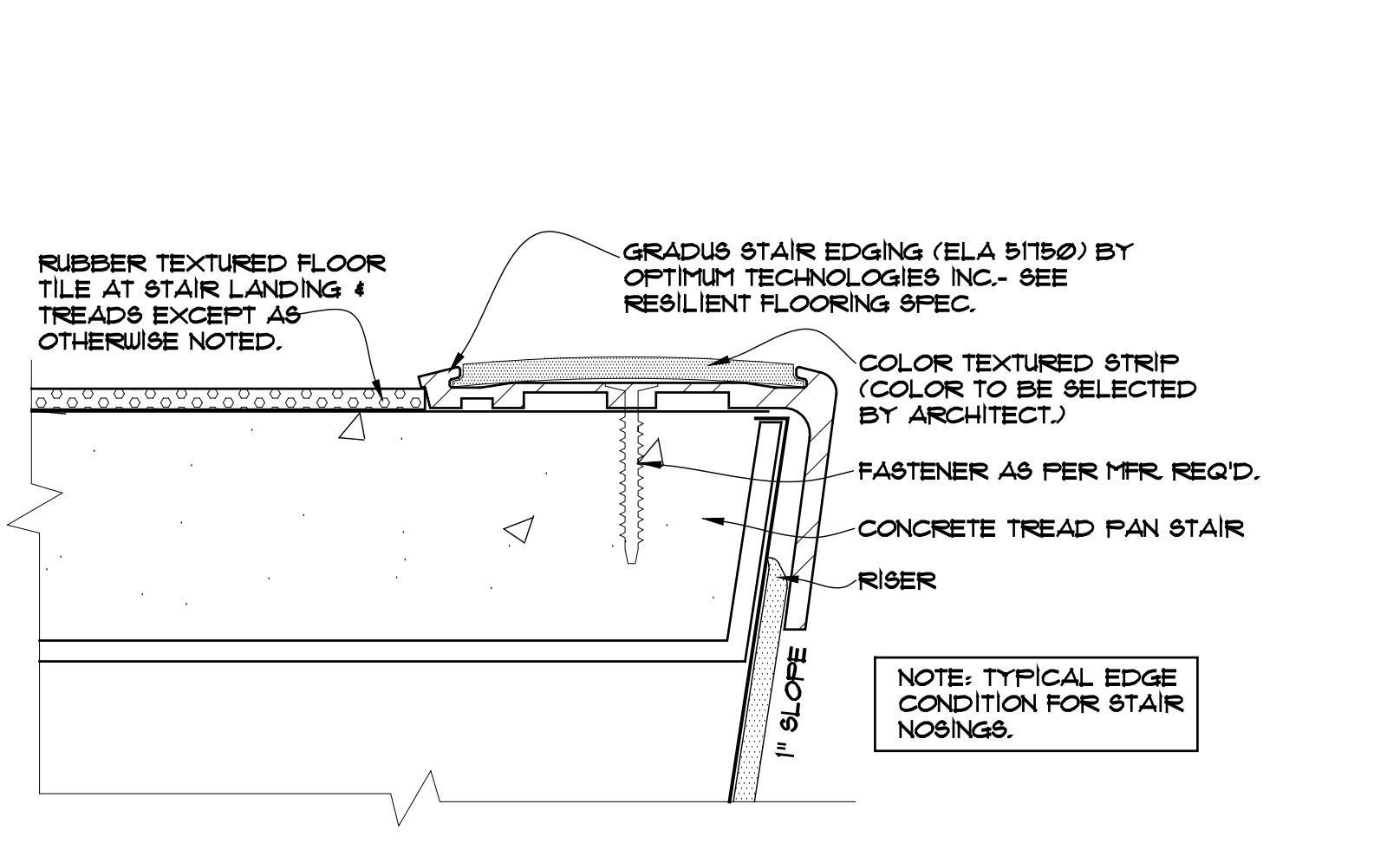
7 TYP. HANDRAIL BRACKET DETAIL  
1 1/2\"/>



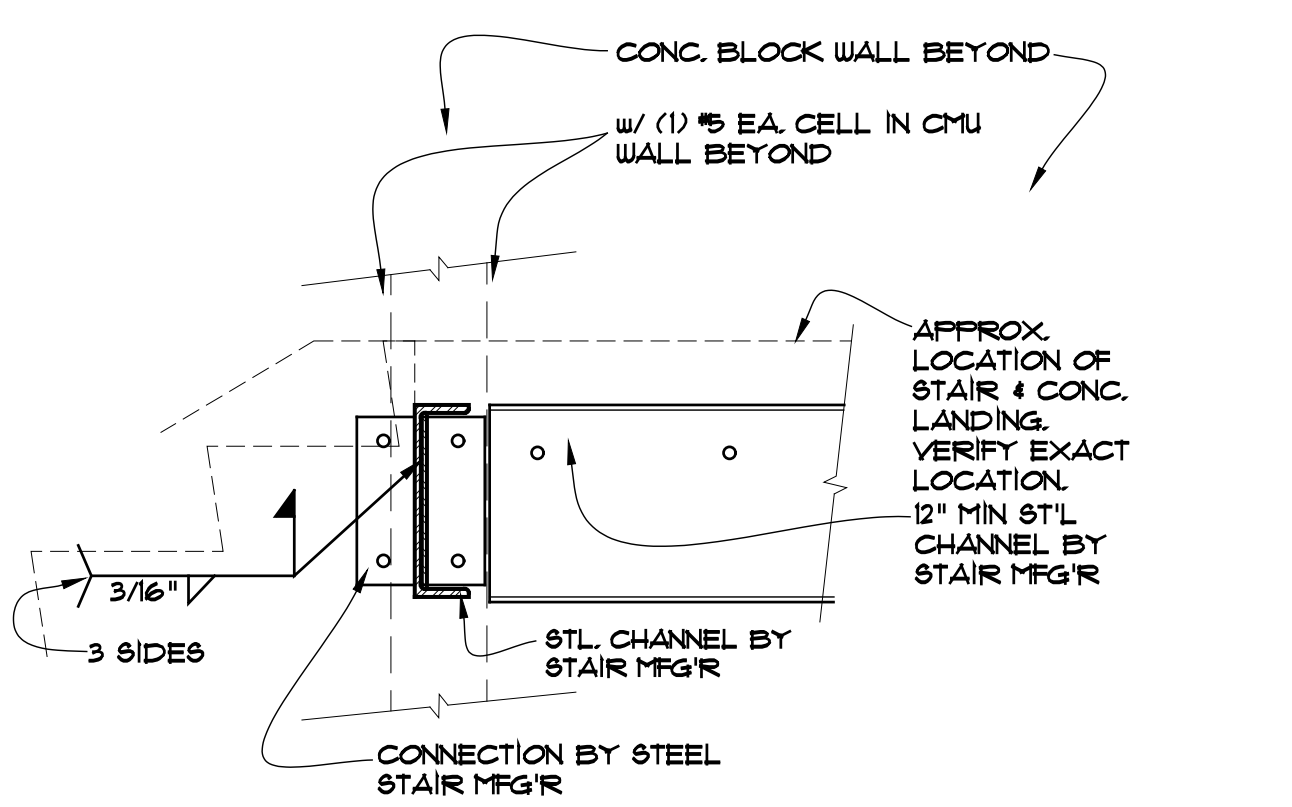
6 DETAIL AT CENTER CMU STAIR WALL (TYP.)  
1 1/2\"/>



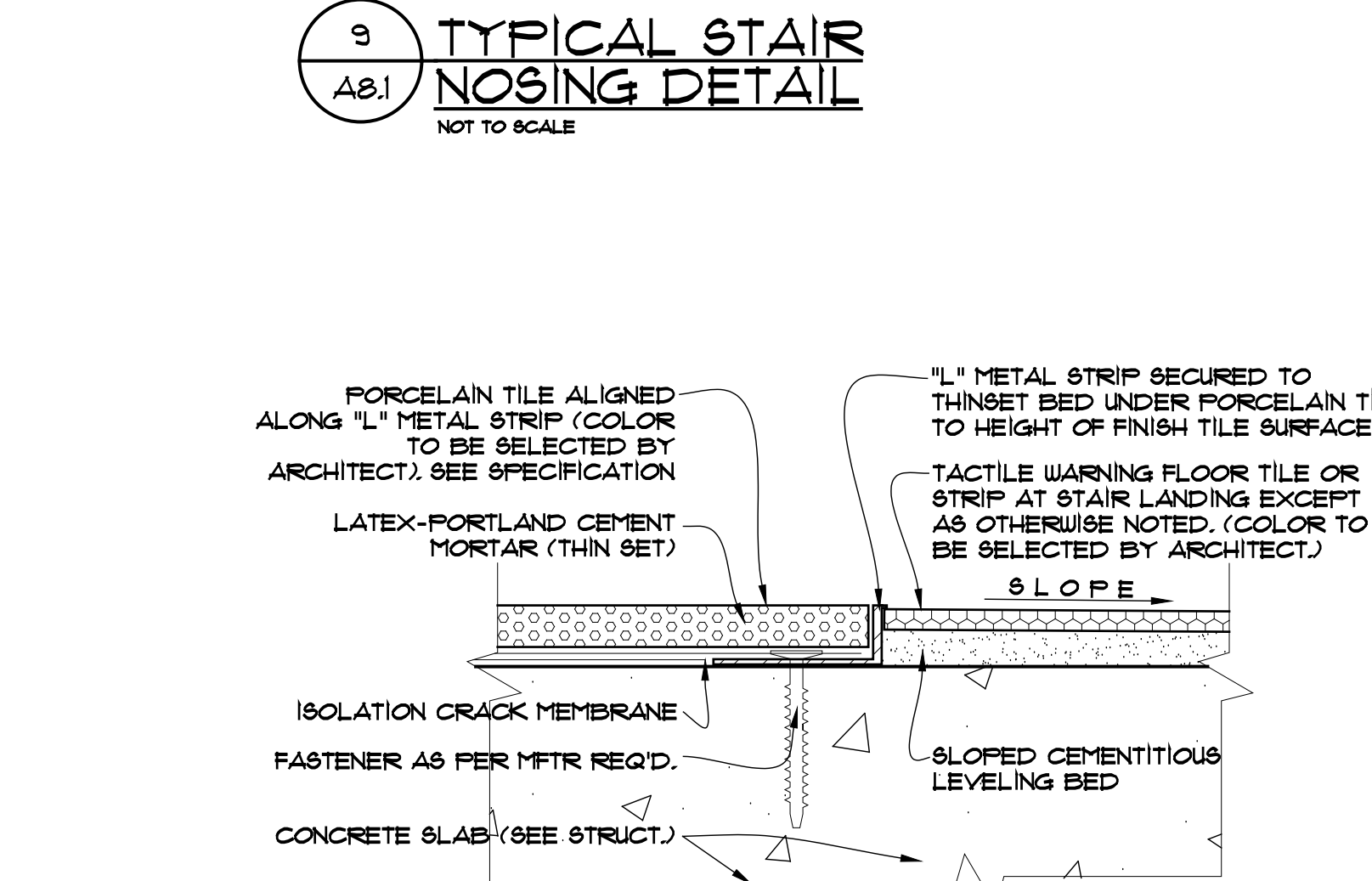
13 TYPICAL STAIR RAILING AT MID-LEVEL LANDING  
1 1/2\"/>



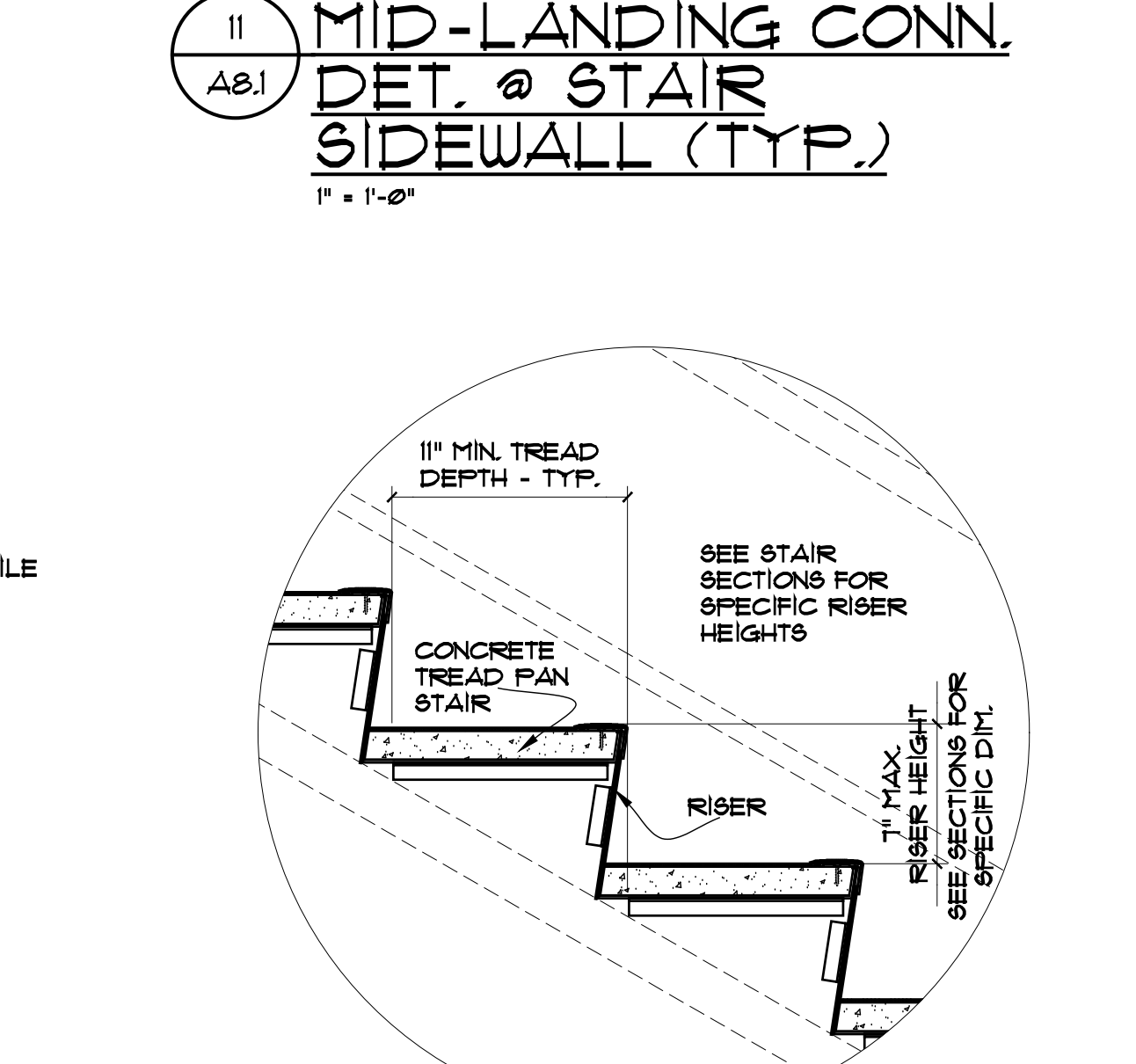
9 TYPICAL STAIR NOSING DETAIL  
NOT TO SCALE



11 MID-LANDING CONN. DET. @ STAIR SIDEWALL (TYP.)  
1\"/>



10 TACTILE WARNING/PORCELAIN TILE TRANSITION STRIP DETAIL  
FULL SCALE



12 TYPICAL STAIR RISER/TREAD DETAIL  
1 1/2\"/>

FACILITY CODE 667-4556

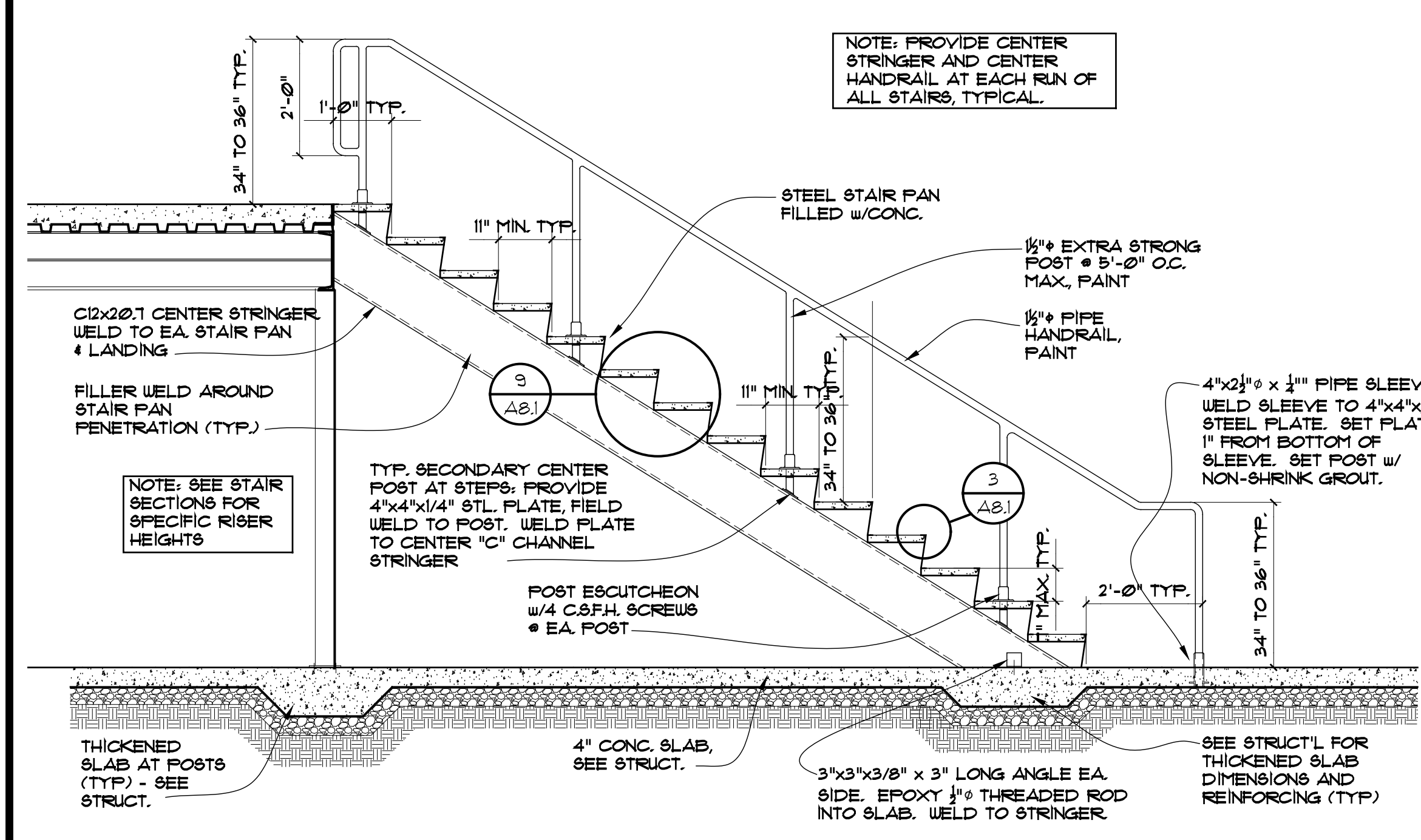
**NORTH GWINNETT HIGH SCHOOL**  
EAST ADDITION  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR: GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

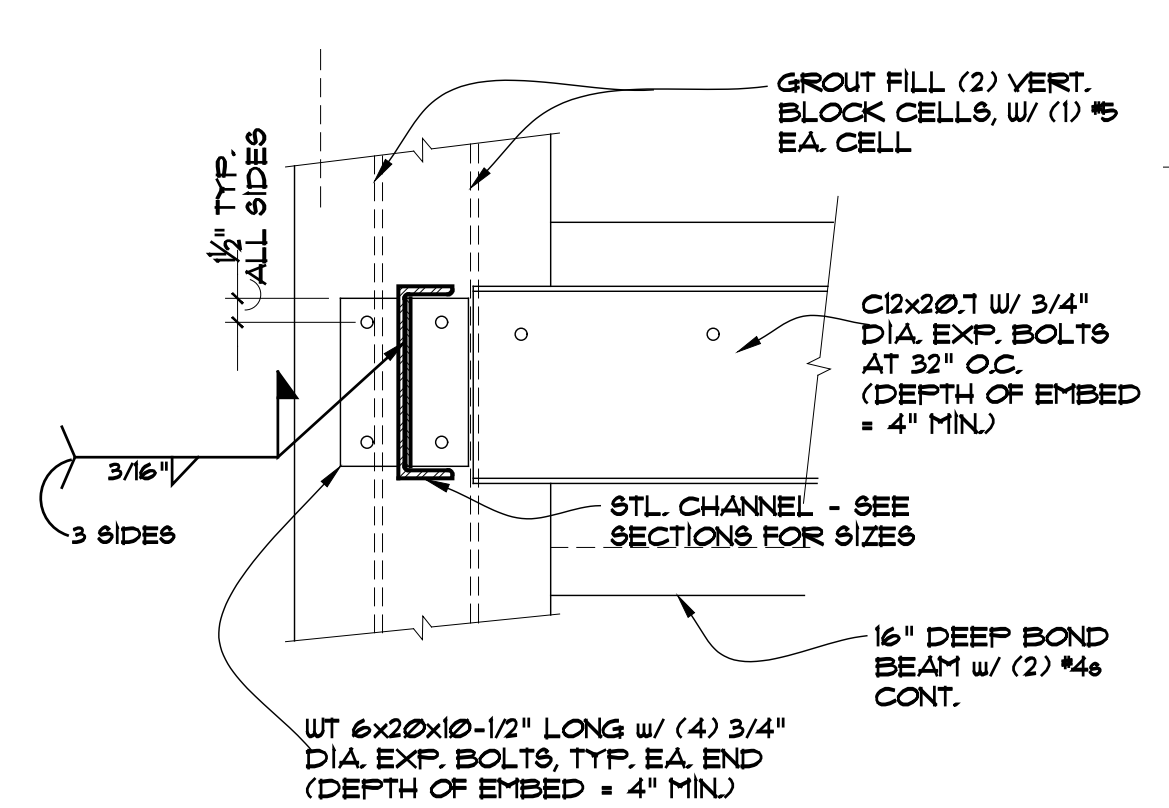
cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE: MARCH 1, 2021  
SHEET: SHL-D20-21  
SCALE: AS SHOWN  
PROJECT: MATH AP

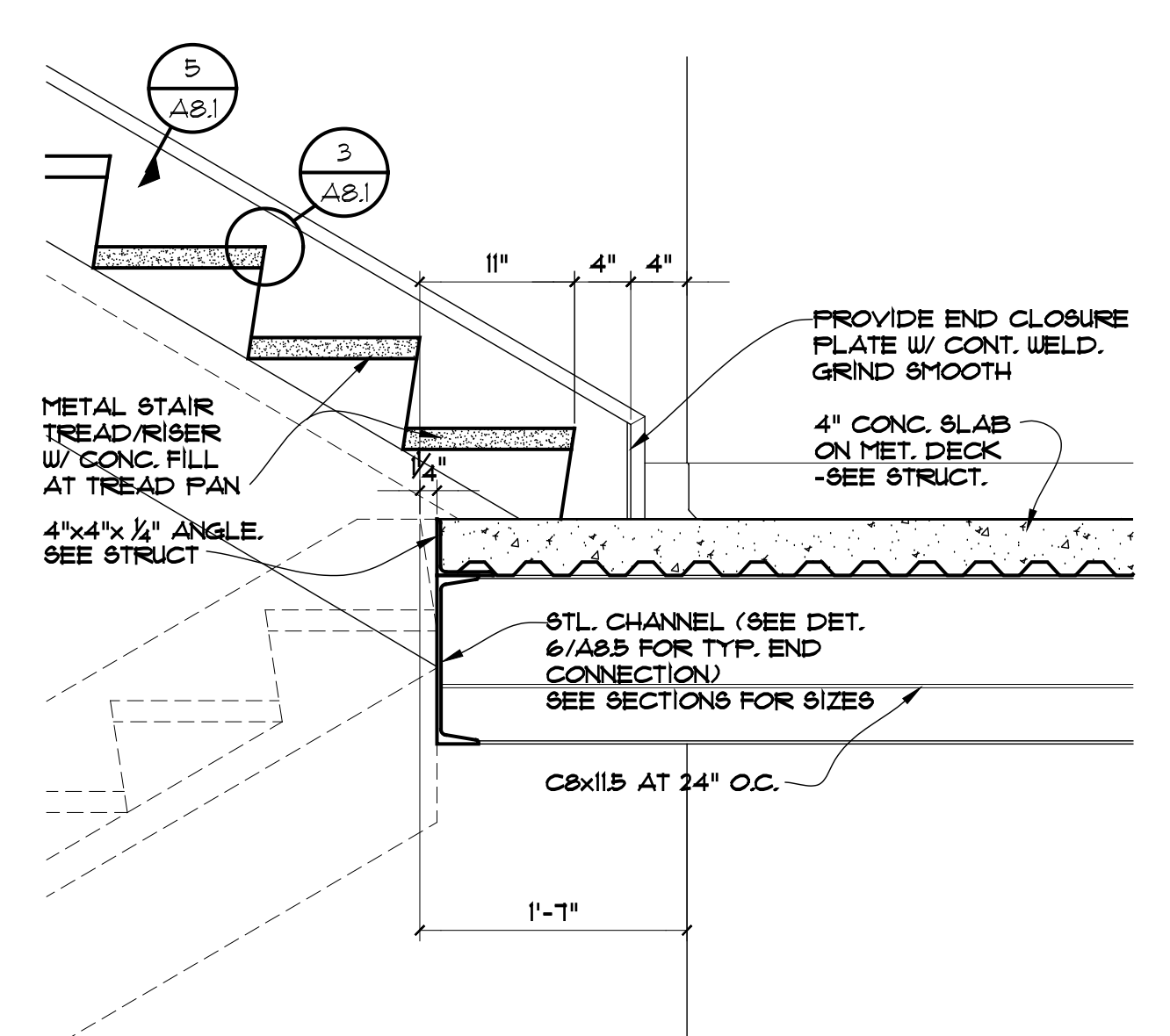
A8.1



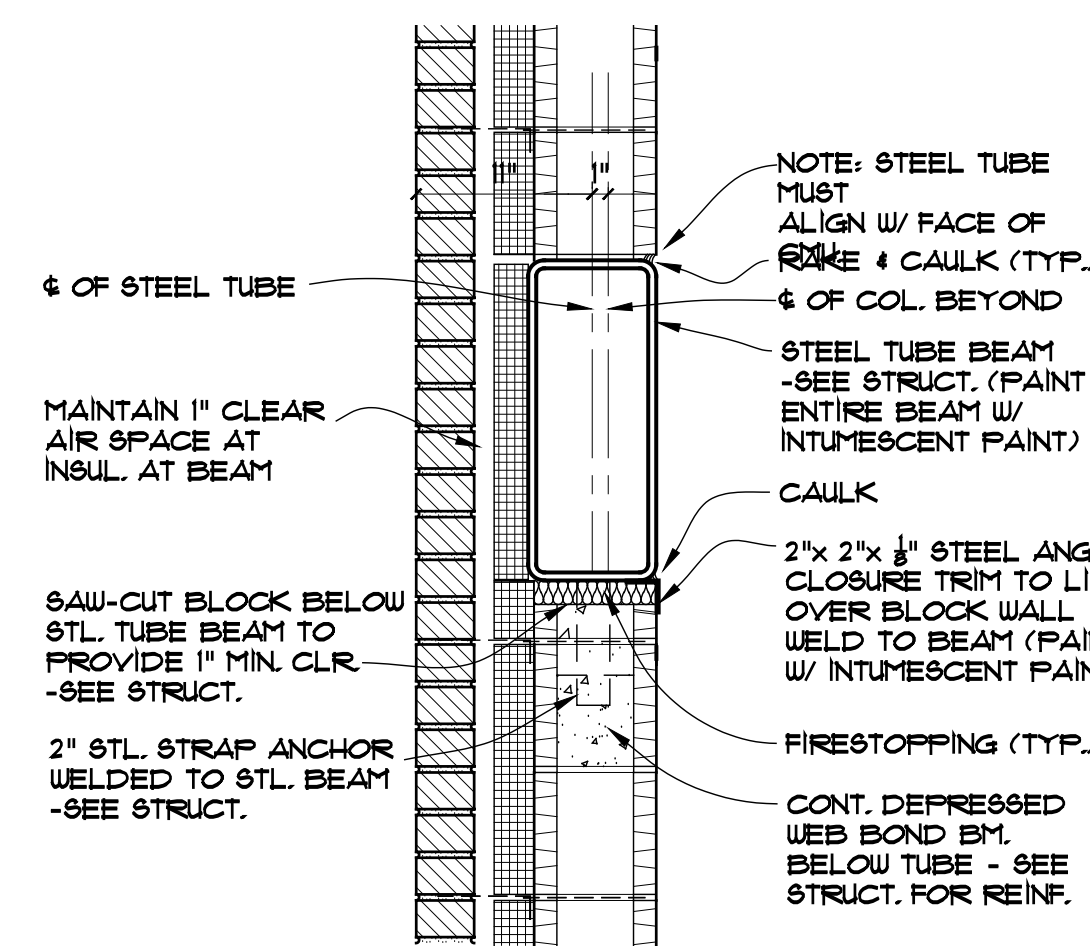
**5 TYPICAL SECTION THRU STAIR AT CENTER HAND RAIL**  
12' x 1'-0"



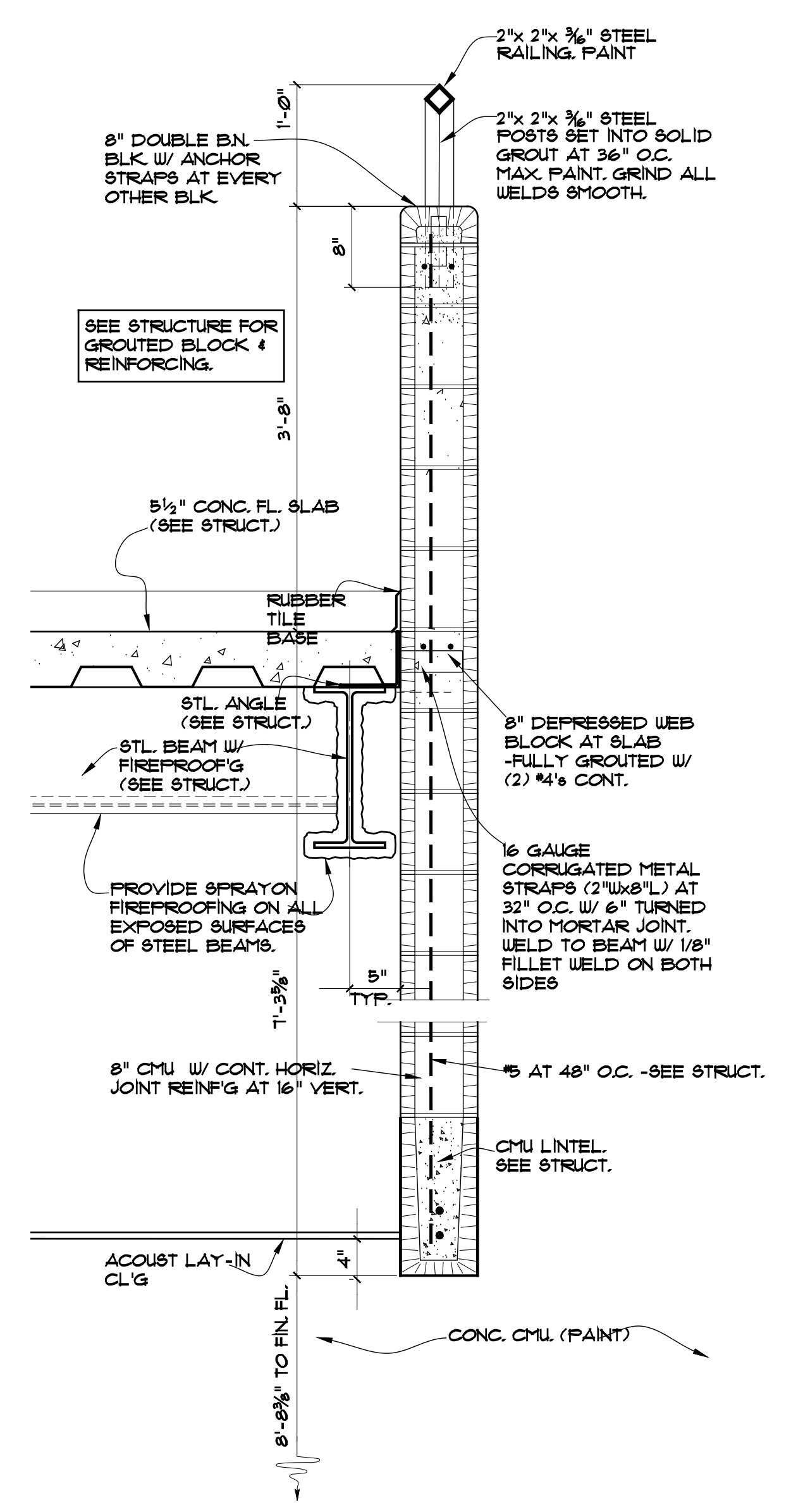
**4 MID-LANDING CONNECTION DET. AT STAIR SIDE WALL**  
1' x 1'-0"



**6 MID-LANDING DETAIL AT STAIRS NO. 4 & 5**  
1' x 1'-0"



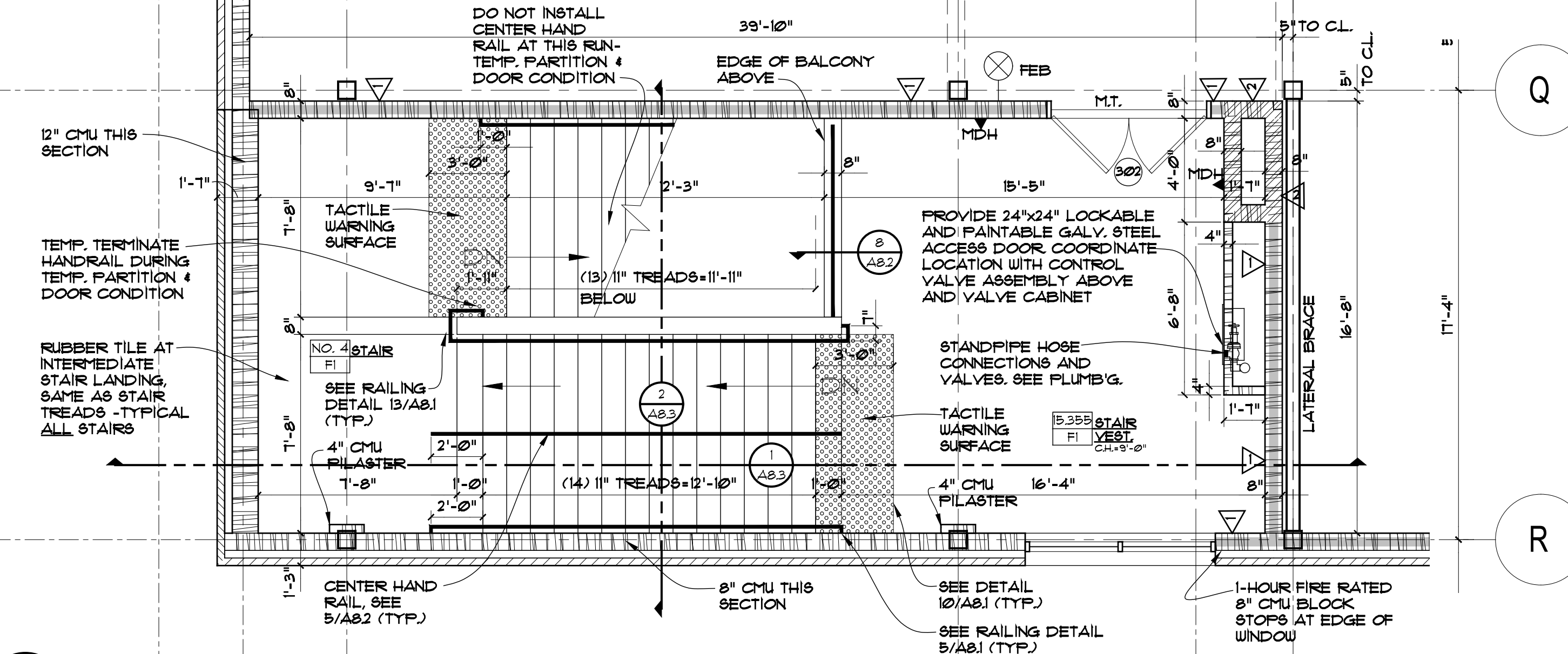
**7 TYPICAL DET. AT TUBE BEAM IN STAIR WALL**  
12' x 1'-0"



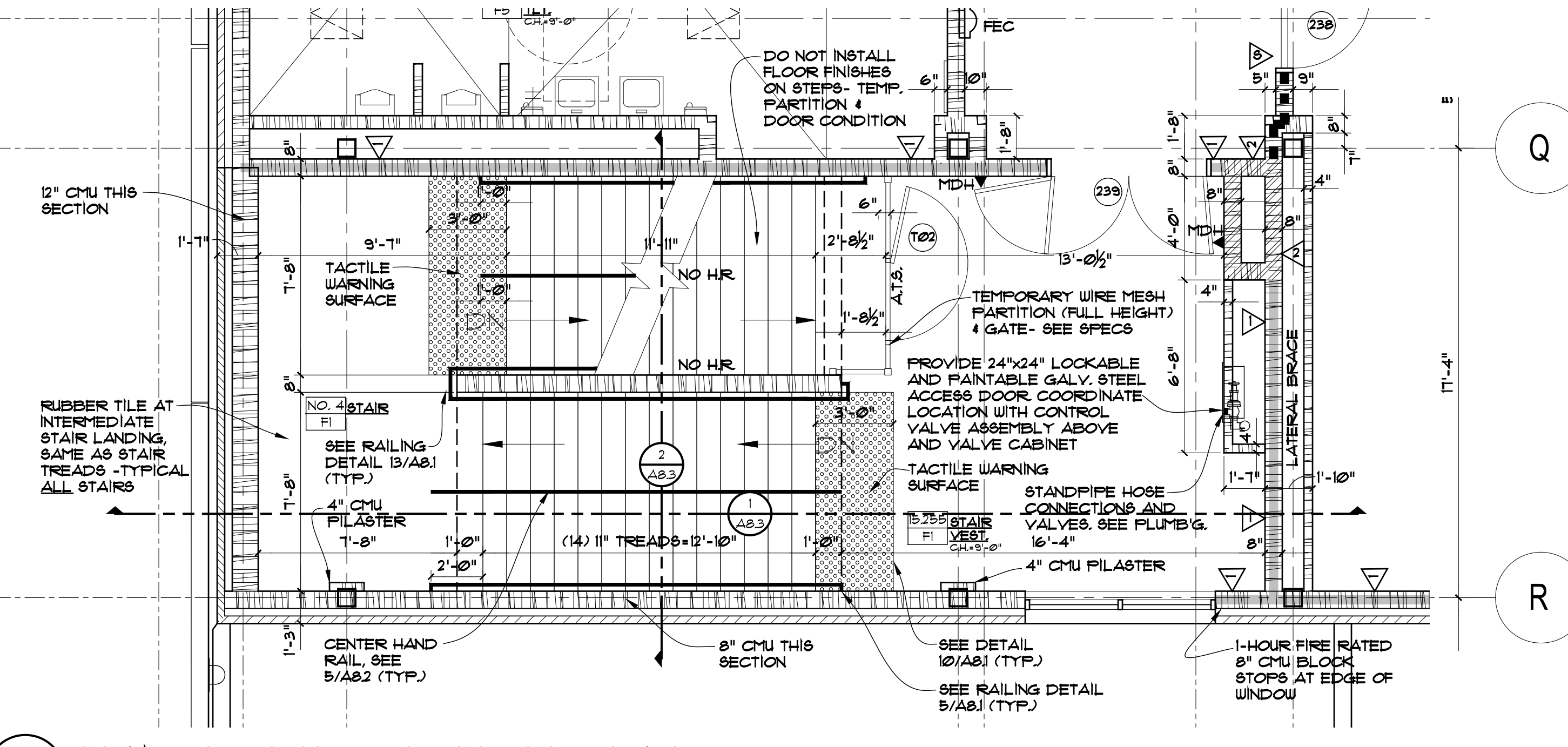
**8 BALCONY MASONRY WALL DETAIL**  
1' x 1'-0"

**LEGEND**

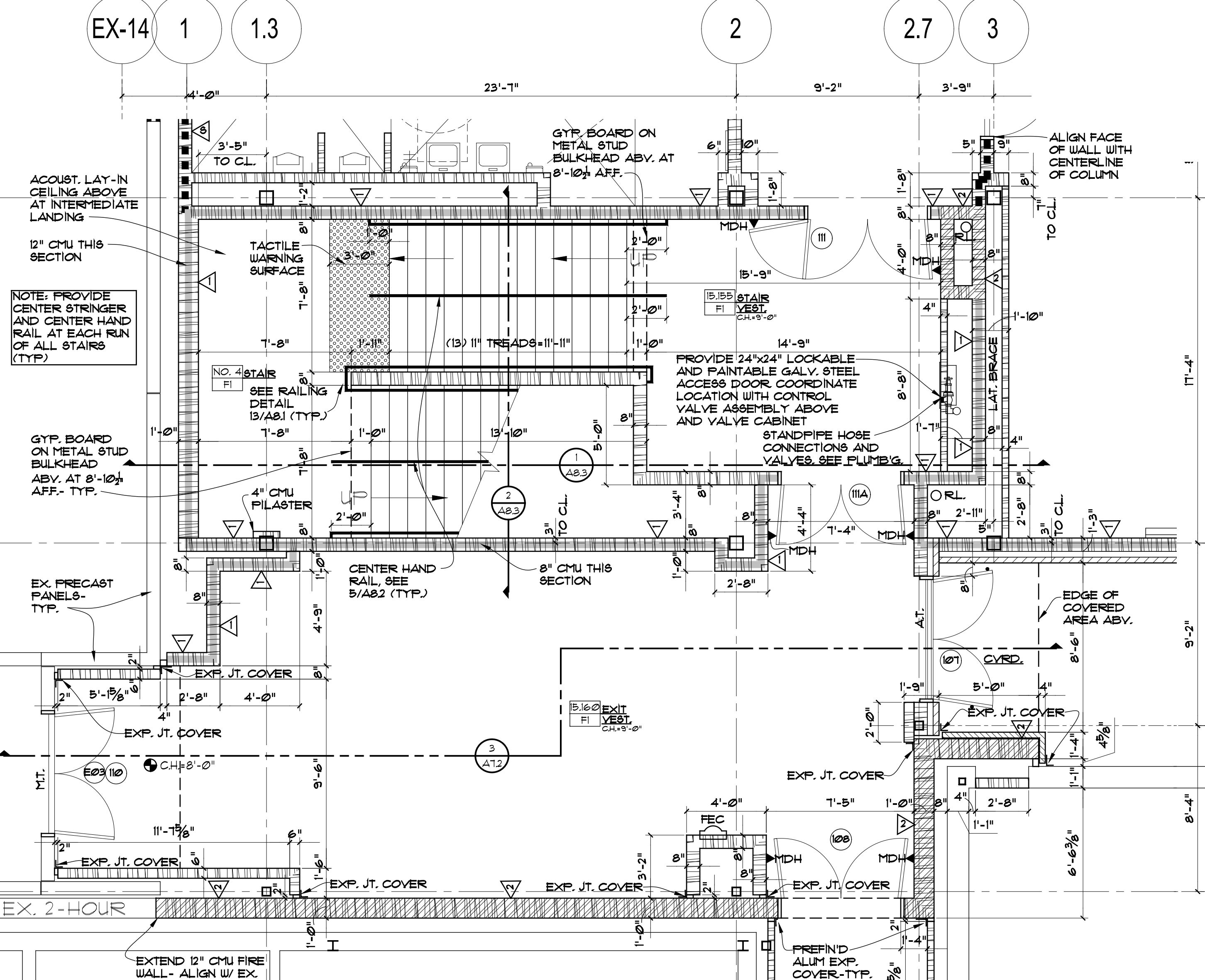
	AT. - ALUMINUM THRESHOLD	P.S. - PROJECTION SCREEN
	A.T.S. - ALUMINUM TRANSITION STRIP	P.T.D. - PAPER TOUPEE DISPENSER
	C.B. - CATCH BASIN	R.L. - RAIN LEADER
	CH. - CEILING HEIGHT	T.B. - TACKBOARD
	C.J. - CONTROL JOINT	T.B.S. - TELECOM/DATA BACKBOARD
	C.T. - CERAMIC TILE	T.A. - TACK STRIP
	C.S. - CARPET STRIP	T.T.H. - TOILET TISSUE HOLDER
	D.S. - DOWN SPOUT	T.W.S. - TACTILE WARNING STRIP
	D.G. - DOUBLE GLAZING	V.C.T. - VINYL COMPOSITION TILE
	D.S.N. - ROOF OVERFLOW NOZZLE	W.C. - WATER CLOSET
	E.D.F. - ELEC. DRINKING FOUNTAIN	W.H. - WALL HYDRANT
	E.P. - ELECTRICAL PANEL	X.J. - EXPANSION JOINT
	F.D. - FLOOR DRAIN	F.E.C. - FIRE EXT. & CABINET
	H.R. - HANDRAIL	F.E.B. - FIRE EXT. & BRACKET
	H.W.H. - WATER HEATER	M.B.A. - WALL MOUNTED MAGNETIC DOOR HOLDER (M.D.H.)
	M.B. - MARKERBOARD	M.S. - MOP STRIP
	M.D.H. - MAGNETIC DOOR HOLDER	M.T. - MARBLE THRESHOLD
	M.S. - MOP STRIP	N.C. - NOT IN CONTRACT
	M.T. - MARBLE THRESHOLD	
	N.C. - NOT IN CONTRACT	
		2222 - ROOM NUMBER
		F2 - FINISH NUMBER (SEE SHEET A2.4 FOR FINISH SCHEDULE & NOTES)



**3 STAIR No. 4 THIRD LEVEL PLAN**  
14' x 1'-0"



**2 STAIR No. 4 SECOND LEVEL PLAN**  
14' x 1'-0"



**1 STAIR No. 4 MAIN LEVEL PLAN**  
14' x 1'-0"

**DRAWING ISSUE RECORD**

DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	

FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 DRAWN BY: M. AP  
 CHECKED BY: J. PM  
 CUNNINGHAM, FOREHAND & MOORE, ARCHITECTS, INC. - 2011 MANCHESTER STREET, N.E. - ATLANTA, GEORGIA 30324 - PHONE (404) 873-2152  
**A8.2**

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/13/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	

FACILITY CODE 667-4556

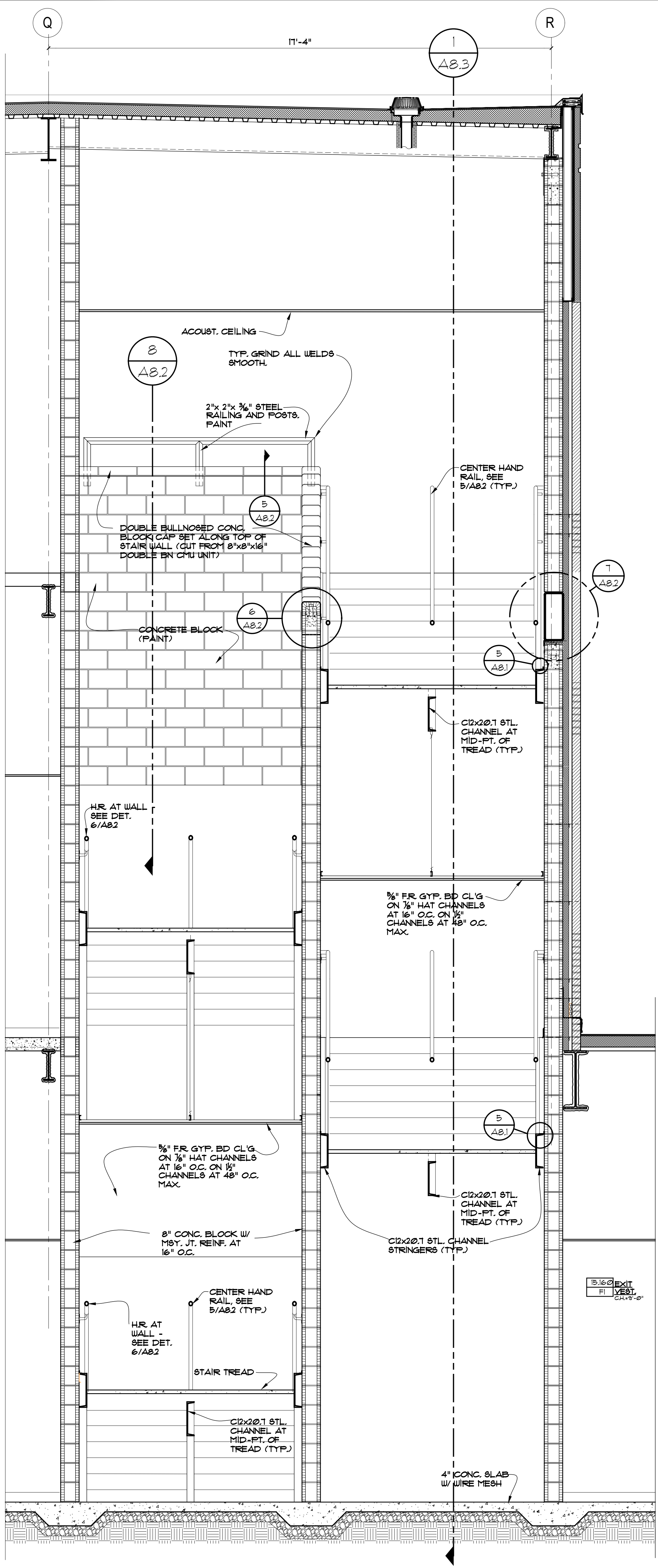
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR: GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
 SHEET: 21-1  
 DESIGNED BY: JR, HJM  
 CHECKED BY: JR, HJM

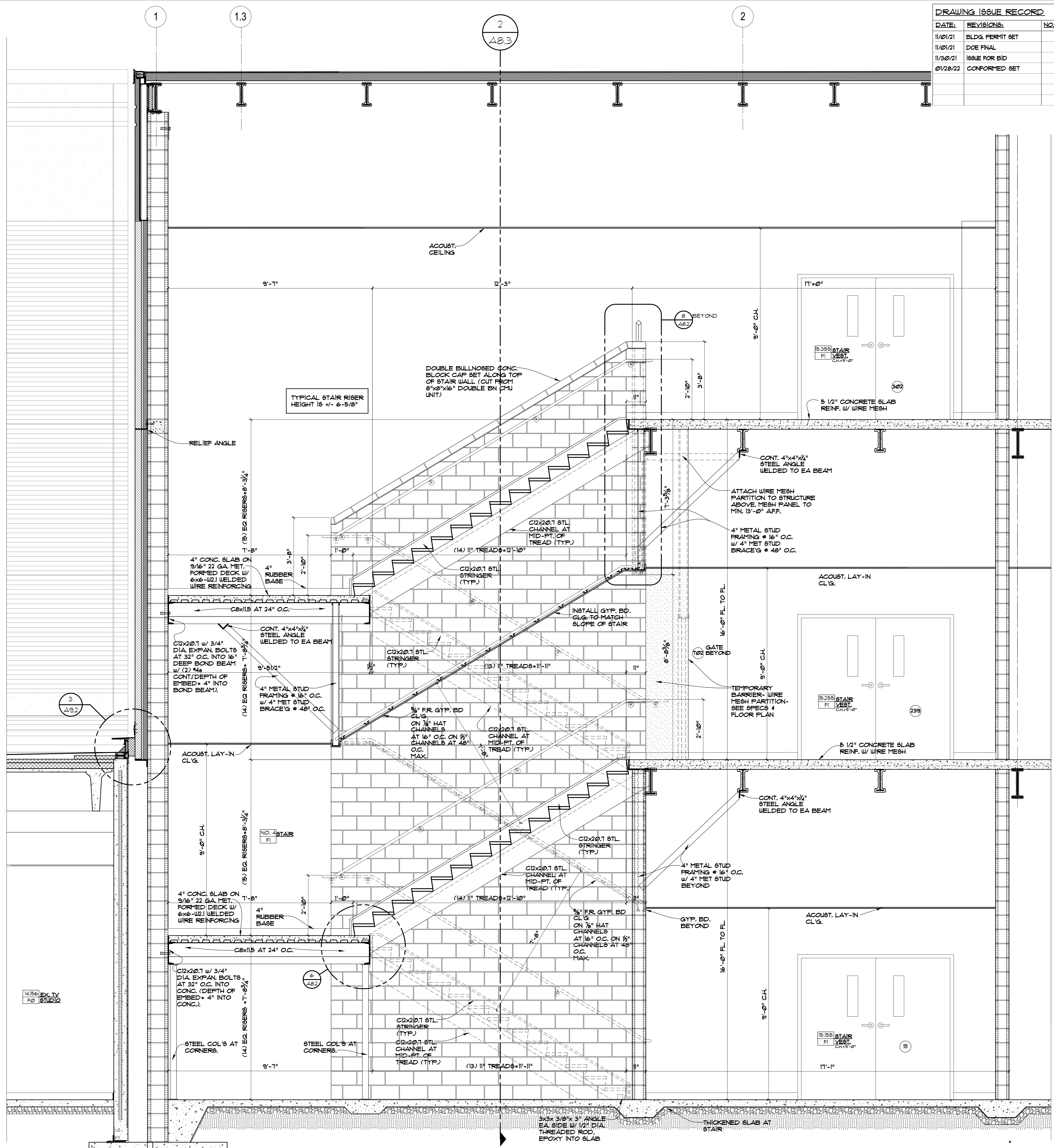
**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

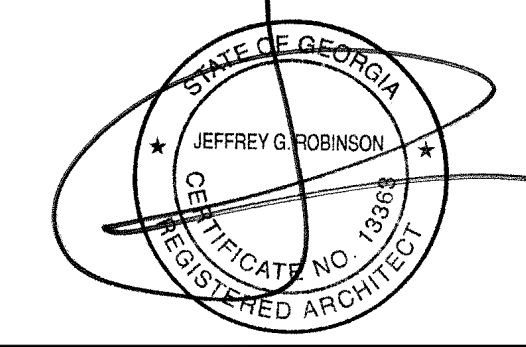
**A8.3**



2 STAIR No. 4 SECTION  
A8.3 12'-11-0"



1 STAIR No. 4 SECTION  
A8.3 12'-11-0"



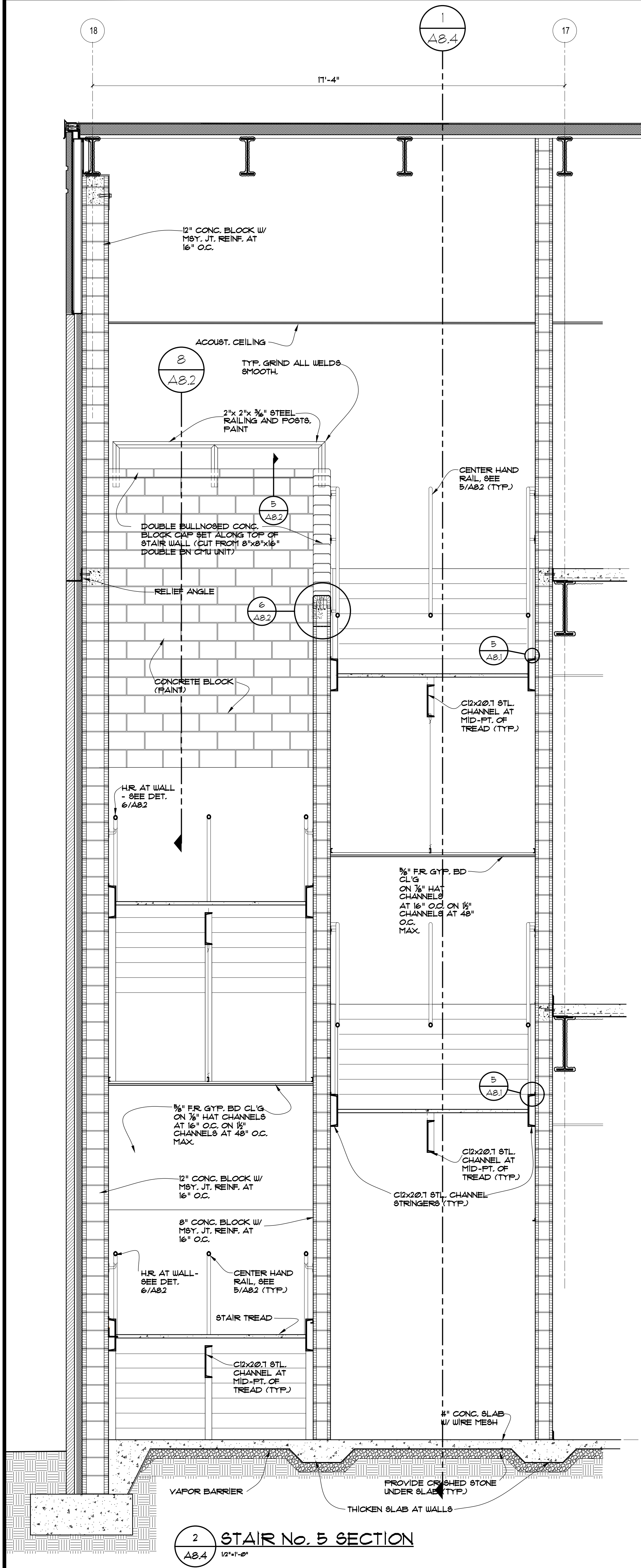


DATE	REVISIONS	NO.
1/10/21	BLDG. PERMIT SET	
1/10/21	DOE FINAL	
1/30/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	

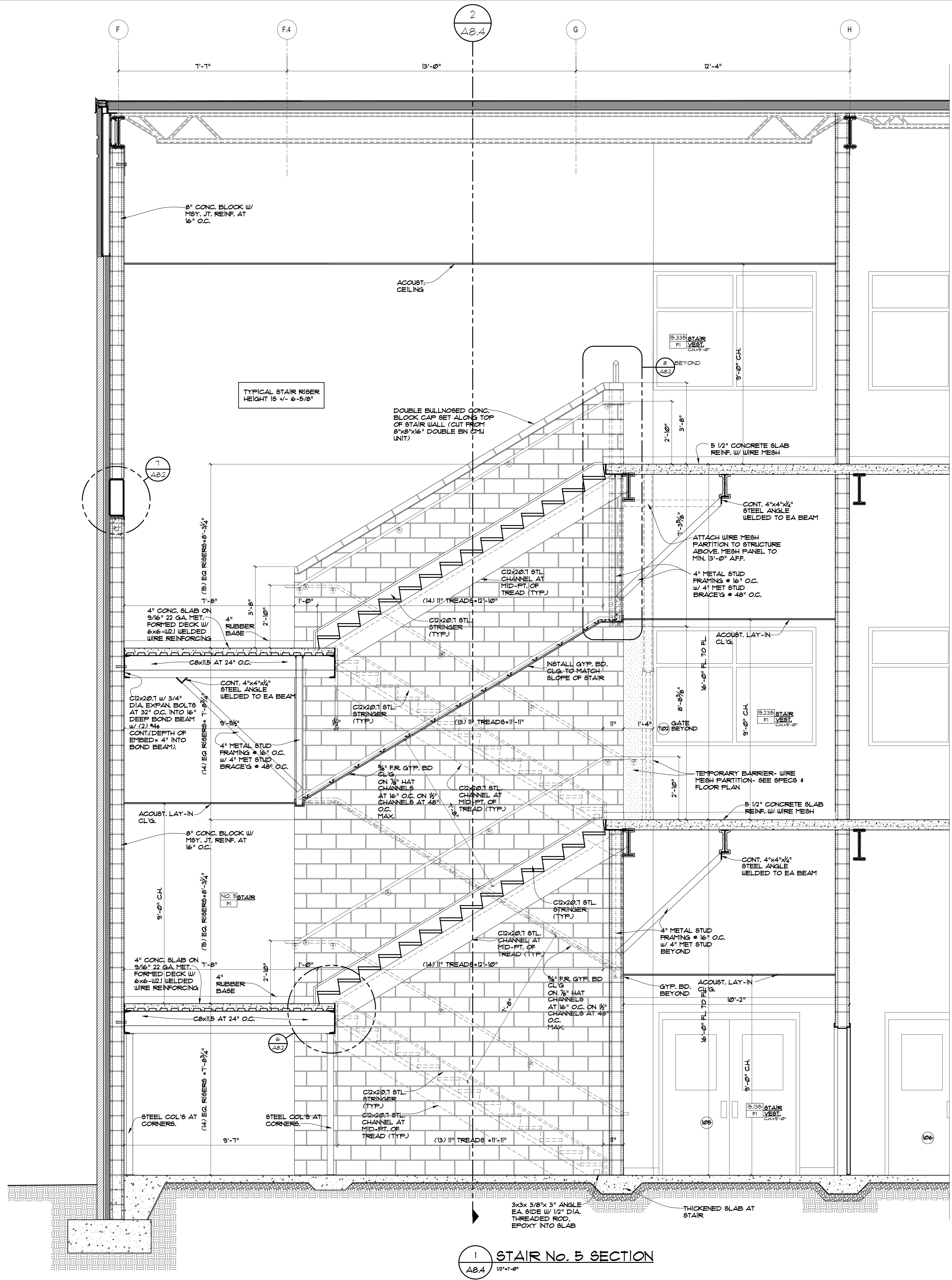
FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 SHEET: 01-20-21  
 DESIGNED BY: JR, P, M  
 CHECKED BY: JR, P, M

**cunningham foehand matthews moore**  
 cunningham, foehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

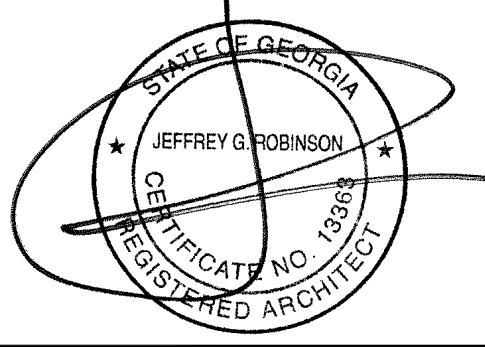
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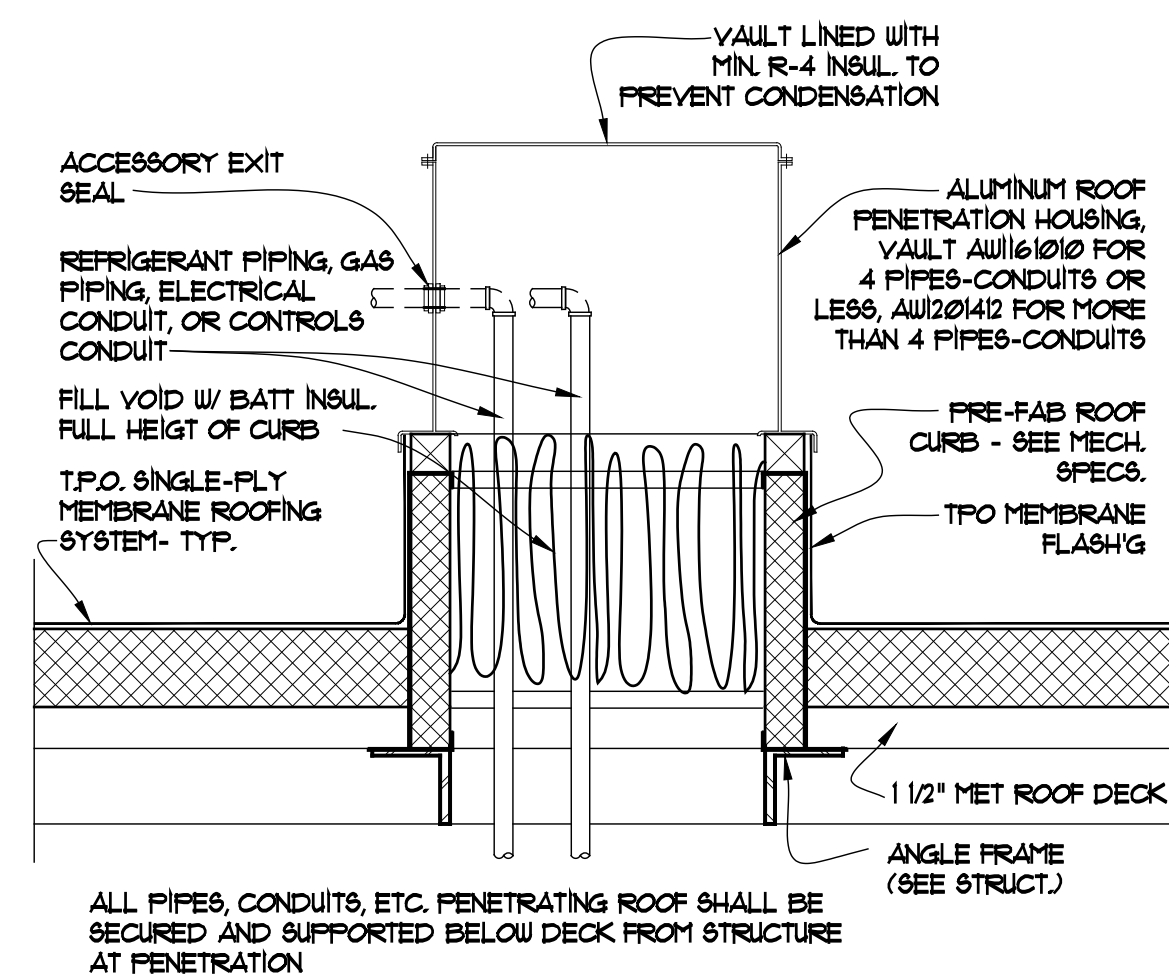


**2 STAIR No. 5 SECTION**  
12'-4" x 0"

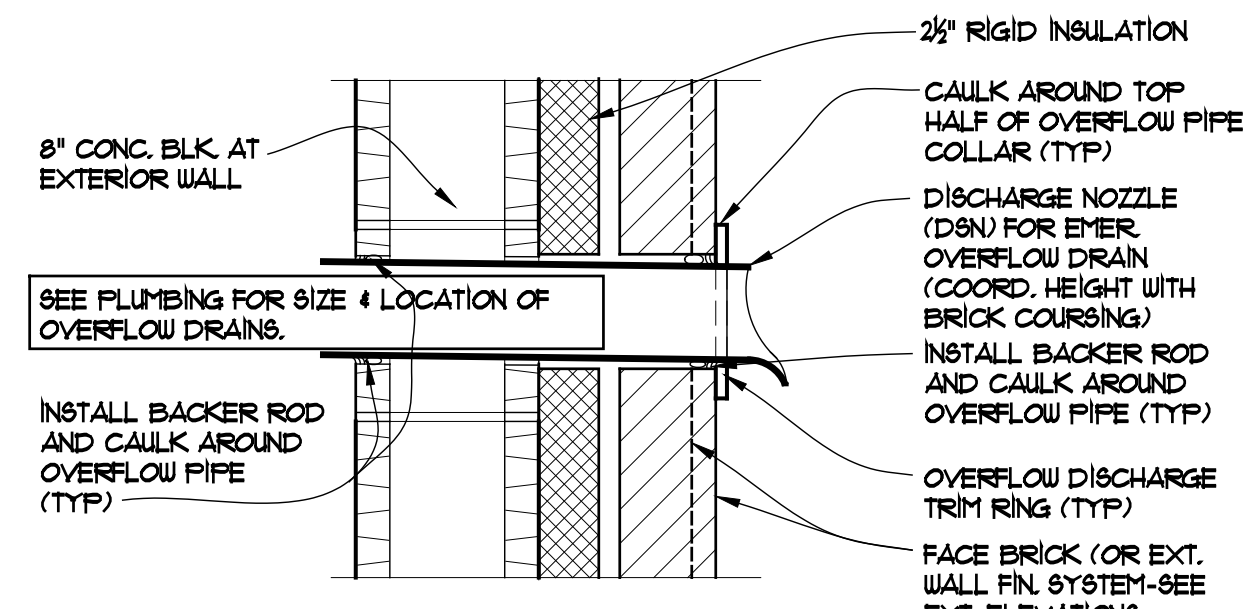


**1 STAIR No. 5 SECTION**  
12'-4" x 0"





**4 DET. FOR PIPES THRU ROOF**  
A9.1 1/2" = 1'-0"



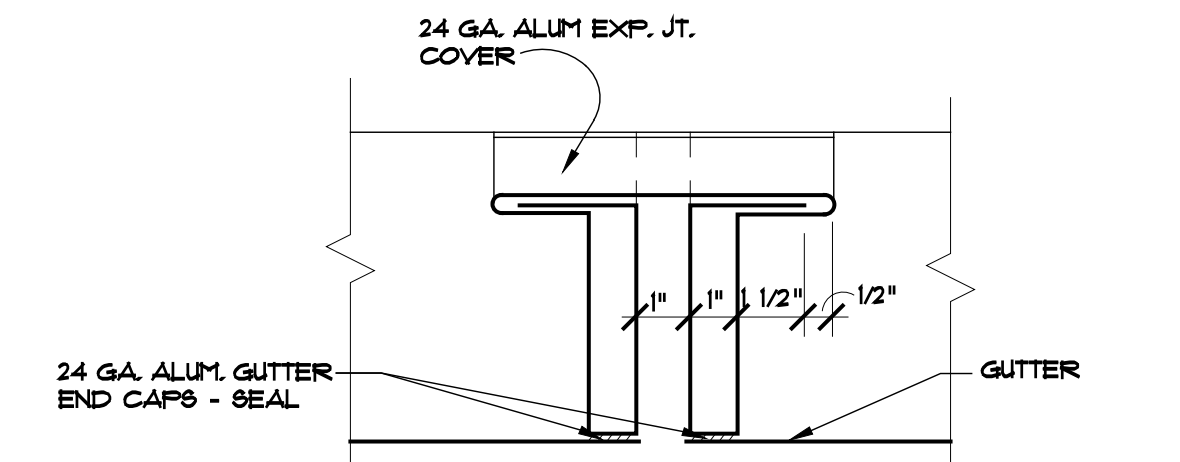
**3 OVERFLOW DRAIN DISCHARGE DET.**  
A9.1 1/2" = 1'-0"

**GENERAL NOTES:**

- QUANTITIES AND LOCATIONS OF ROOF TOP MECHANICAL EQUIPMENT ARE APPROXIMATE. GEN. CONTRACTOR MUST COORDINATE EXACT ITEMS AS WELL AS SIZE AND LOCATIONS OF OPENINGS FOR STRUCTURAL SUPPORT AND ROOF PENETRATIONS. VERIFY CLEARANCES REQUIRED FOR ALL EQUIPMENT OPENINGS.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AROUND ALL ROOF TOP EQUIPMENT AS NECESSARY. PROVIDE CRICKETS AS REQUIRED.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE TO ALL ROOF DRAINS AND GUTTERS AS SHOWN.
- FITCH FANS ARE NOT ACCEPTABLE FOR ANY PENETRATION OF THE ROOF MEMBRANE. CONTRACTOR SHALL PROVIDE ROOF PENETRATION CURBS FOR ANY ITEMS PENETRATING ROOF.
- COORDINATE FINAL LOCATIONS OF OVERFLOW DRAIN DISCHARGE LOCATIONS ON ELEVATIONS WITH ARCHITECT. DO NOT SCALE LOCATIONS FROM ROOF PLANS OR FROM PLUMBING PLANS. SEE 3/A9.1 FOR OVERFLOW DETAILS.
- DO NOT ALLOW PLUMBING VENT STACKS TO BE WITHIN 10' HORIZONTALLY OF ANY ROOF TOP UNIT FRESH AIR INTAKE.
- ALL ROOF PENETRATIONS (CURBS, VENTS, PIPES, ETC.) SHALL EXTEND A MINIMUM OF 8" ABOVE FINISHED ROOF TO TOP OF CURB OR VENT. CONTRACTOR COORDINATE WITH INSULATION HEIGHTS.
- DO NOT ENCROACH ON CRICKET VALLEYS WITH PLUMBING VENTS, MECHANICAL OR ELECTRICAL PENETRATIONS.
- DETAILS ARE KEYED ON ROOF PLAN AS AN ASSISTANCE TO THE CONTRACTOR IN UNDERSTANDING THE ROOFING WORK TO BE PERFORMED. DETAILS ARE KEYED TO SPECIFIC AREAS FOR CONVENIENCE, BUT MAY APPLY TO THE SAME GENERAL CONDITION WHEREVER IT MAY BE FOUND.
- EXISTING AND NEW GAS PIPING ROUTED ABOVE THE ROOF SURFACE SHALL BE SUPPORTED BY PRE-MANUFACTURED PIPE SUPPORTS. SECURE PIPING AT ALL SUPPORTS. PROVIDE A SLIP SHEET BELOW SUPPORT MEMBER IF NOT INTEGRAL TO THE PIPE SUPPORT SYSTEM.
- ALL EXISTING OR NEW GAS OR ELECTRIC PIPES OR CONDUIT PENETRATING THE ROOF MEMBRANES MUST PASS THRU A PIPE CURB WITH ABS CAP AND NEOPRENE BOOT CONFORMING TO DETAIL 4/A9.1. CONTRACTOR COORDINATE WITH BCS FOR INTERRUPTION IN GAS/ELECTRICAL SERVICE TO EXISTING ROOF TOP EQUIPMENT TO REMAIN. CONTRACTOR SHALL COORDINATE WITH OWNER TO IDENTIFY ACTIVE VERSUS ABANDONED WIRING, WATER PIPING AND GAS PIPING ON OR THRU THE ROOF.
- ALL ROOF PENETRATIONS (PLUMBING VENT STACKS, EQUIPMENT CURBS AND PIPE CURBS BOTH EXISTING AND NEW) SHALL EXTEND A MINIMUM OF 8" ABOVE FINISHED ROOF TO TOP OF CURB OR VENT. CONTRACTOR COORDINATE WITH INSULATION HEIGHTS. ALL EXISTING CURBS WITH AN ABOVE-ROOF EXISTING HEIGHT OF LESS THAN 6" SHALL BE REPLACED WITH A NEW CURB OF ADEQUATE HEIGHT TO PROVIDE MINIMUM 8" CLEARANCE ABOVE NEW ROOF INSULATION THICKNESS.

**ROOF PLAN LEGEND**

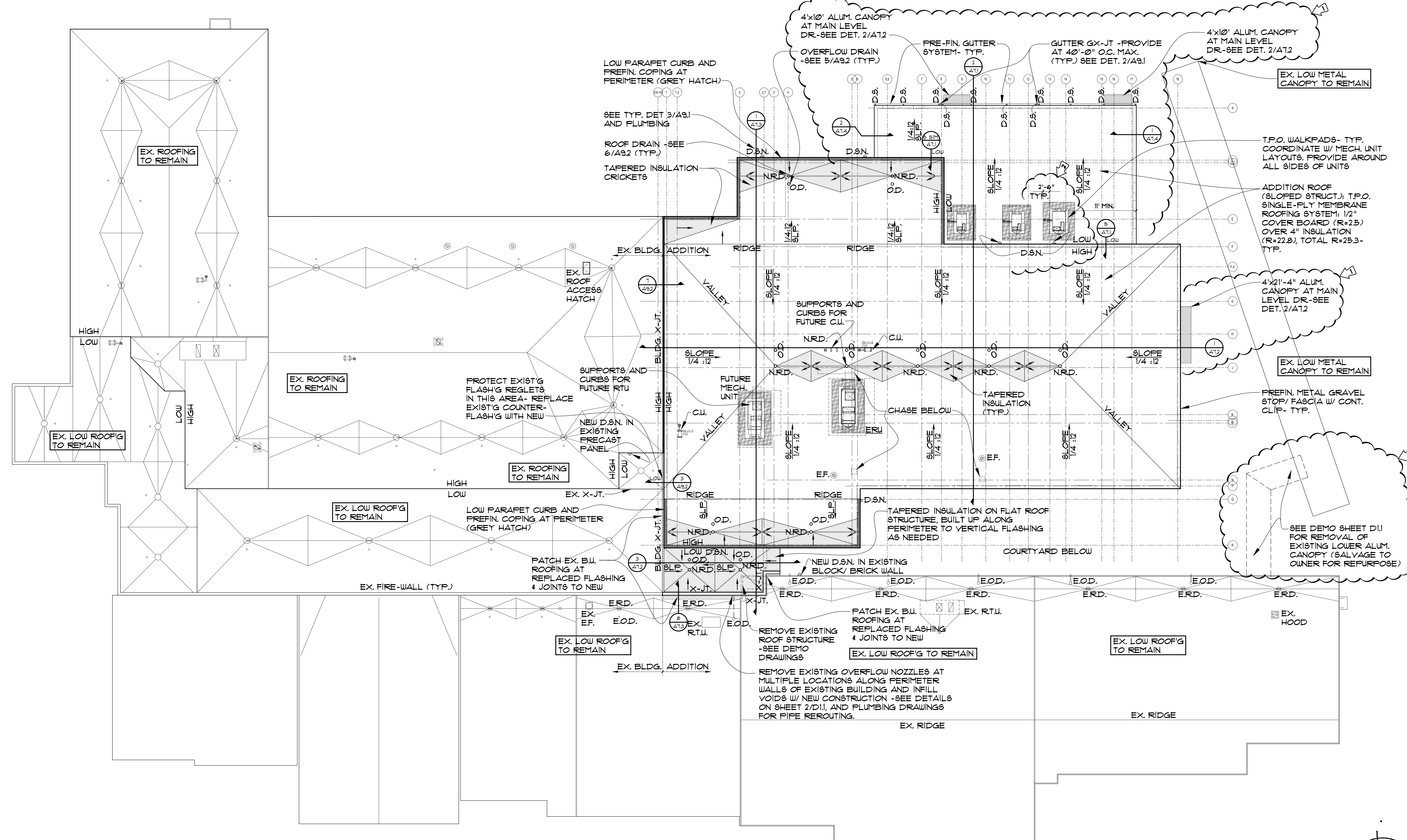
[Symbol]	INDICATES AREA OF TAPERED INSULATION OVER NEW (FLAT) ROOF STRUCTURE OR BUILT-UP CRICKETS- SEE NOTES AT LEFT.	X-JT.	BUILDING EXPANSION JOINT (SEE 1/A9.2)
[Symbol]	INDICATES NEW T.P.O. (MECHANICALLY ATTACHED THERMOPLASTIC OLFIN ROOF) SINGLE-PLY MEMBRANE SYSTEM ON 1/2" COVER BRD. OVER 4" INSUL. (R 25 + R 22.8 = R 25.3)	GX-JT.	GUTTER EXPANSION JOINT (SEE 2/A9.1)
[Symbol]	SPECIFIC LOCATIONS OF CERTAIN ITEMS REQUIRE COORDINATION WITH M. E. & P. DRAWINGS	E.O.D.	EXIST'G OVERFLOW DRAIN
		N.R.D.	NEW ROOF DRAIN (SEE PLUMBING 4 6/A9.2)
		O.D.	NEW OVERFLOW DRAIN (SEE PLUMBING 4 8/A9.2)
		R.H.V.	EXHAUST AIR HEAT RECOVERY UNIT (SEE MECH)
		E.F.	ROOF TOP HEATING & VENTILATION UNIT (SEE MECH)
		E.C.	EXHAUST FAN (SEE MECHANICAL 4 2/A9.2)
		S.F.	EXHAUST CAP (SEE MECHANICAL)
		I.C.	SUPPLY FAN (SEE MECHANICAL 4 2/A9.2)
		C.U.	INTAKE GAP (SEE MECHANICAL 4 2/A9.2)
		H.P.	CONDENSING UNIT (SEE MECHANICAL 4 8/A9.2)
		D.S.N.	HEAT PUMP (SEE MECHANICAL)
		V.T.R.	OVERFLOW DISCHARGE NOZZLE (SEE 3/A9.1)
		D.S.	VENT TO ROOF (SEE PLUMBING 4 4/A9.2)
		D.S.	DOWNSPOUT (SEE DET. 12/A9.2, 13/A9.2)



**2 SECT. THRU TYP. GUTTER EXPANSION JOINT**  
A9.1 3" = 1'-0" SEE GX-JT. ON PLANS

**DRAWING ISSUE RECORD**

DATE	REVISIONS	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
12/16/21	ADDENDUM NO. 2	
12/16/21	ADDENDUM NO. 3	
01/28/22	CONFORMED SET	



**1 OVERALL & ADDITION ROOF PLAN**  
A9.1 1/8" = 1'-0"

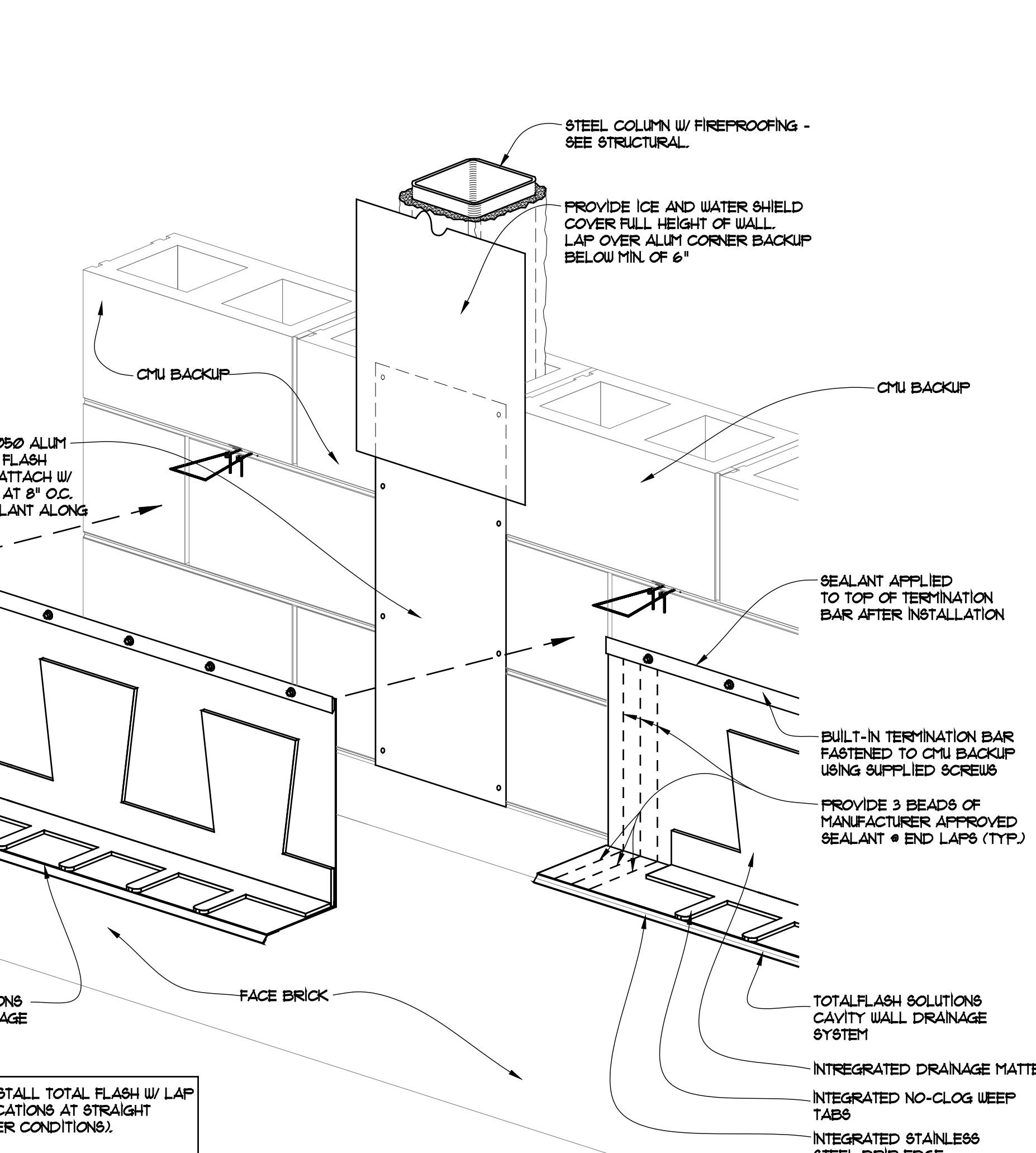
FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 PREPARED BY: JEFFREY G. ROBINSON  
 REGISTERED ARCHITECT  
 DATE: MARCH 1, 2021  
 SHEET NO. 94-D01-21  
 DESIGNED BY: M.T. AP  
 CHECKED BY: J.R. M.T.  
**cunningham, forehand, matthews & moore, architects, inc.** - atlanta, georgia 30324 - phone (404) 873-2152  
**A9.1**

DATE:	REVISIONS:	NO.
11/01/21	BLDG. PERMIT SET	
11/01/21	DOE FINAL	
11/30/21	ISSUE FOR BID	
01/28/22	CONFORMED SET	

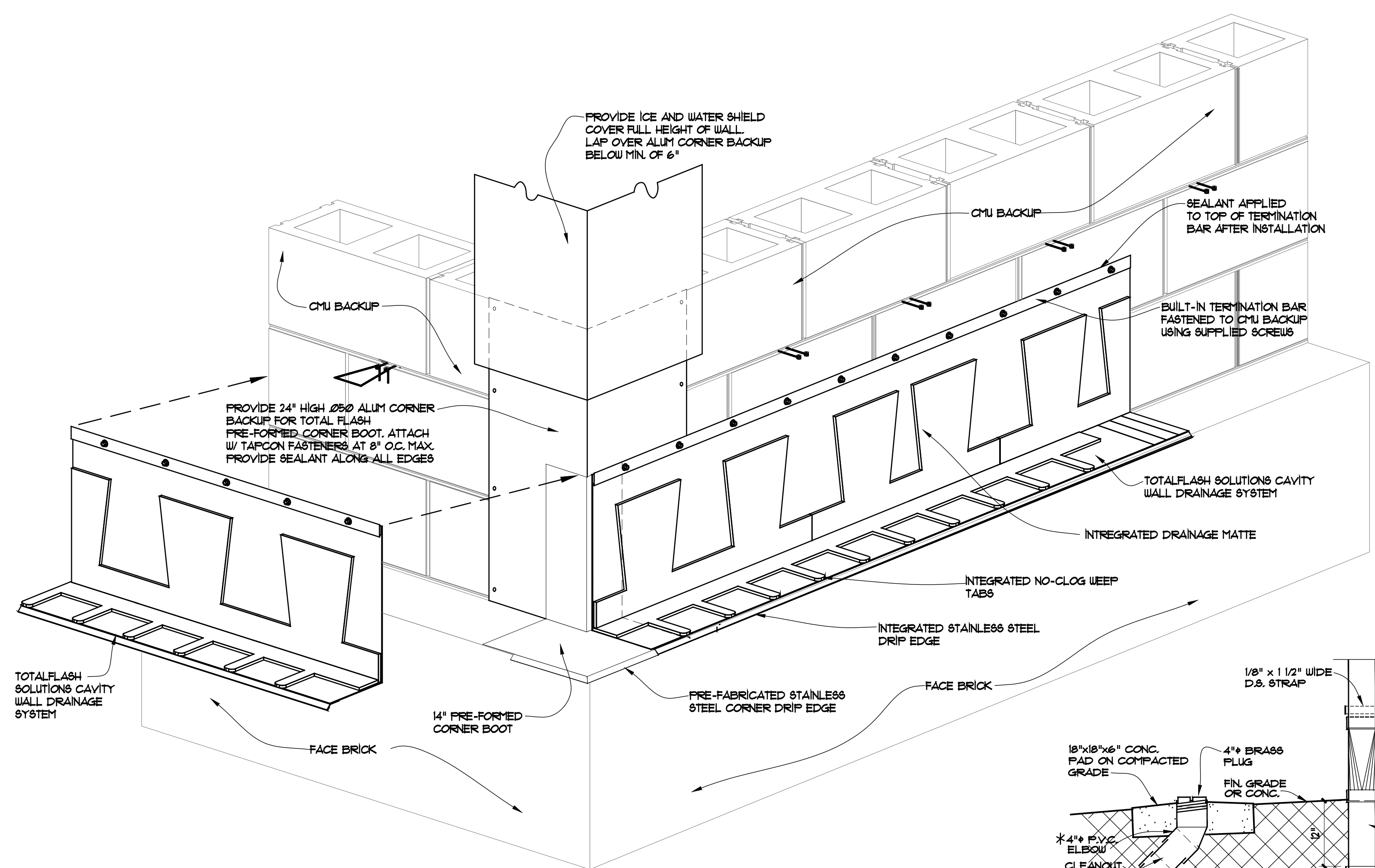
FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2022  
 DESIGNED BY: JRM, AP  
 CHECKED BY: JRM, PMT

**cunningham, forehand, matthews & moore**  
 architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152

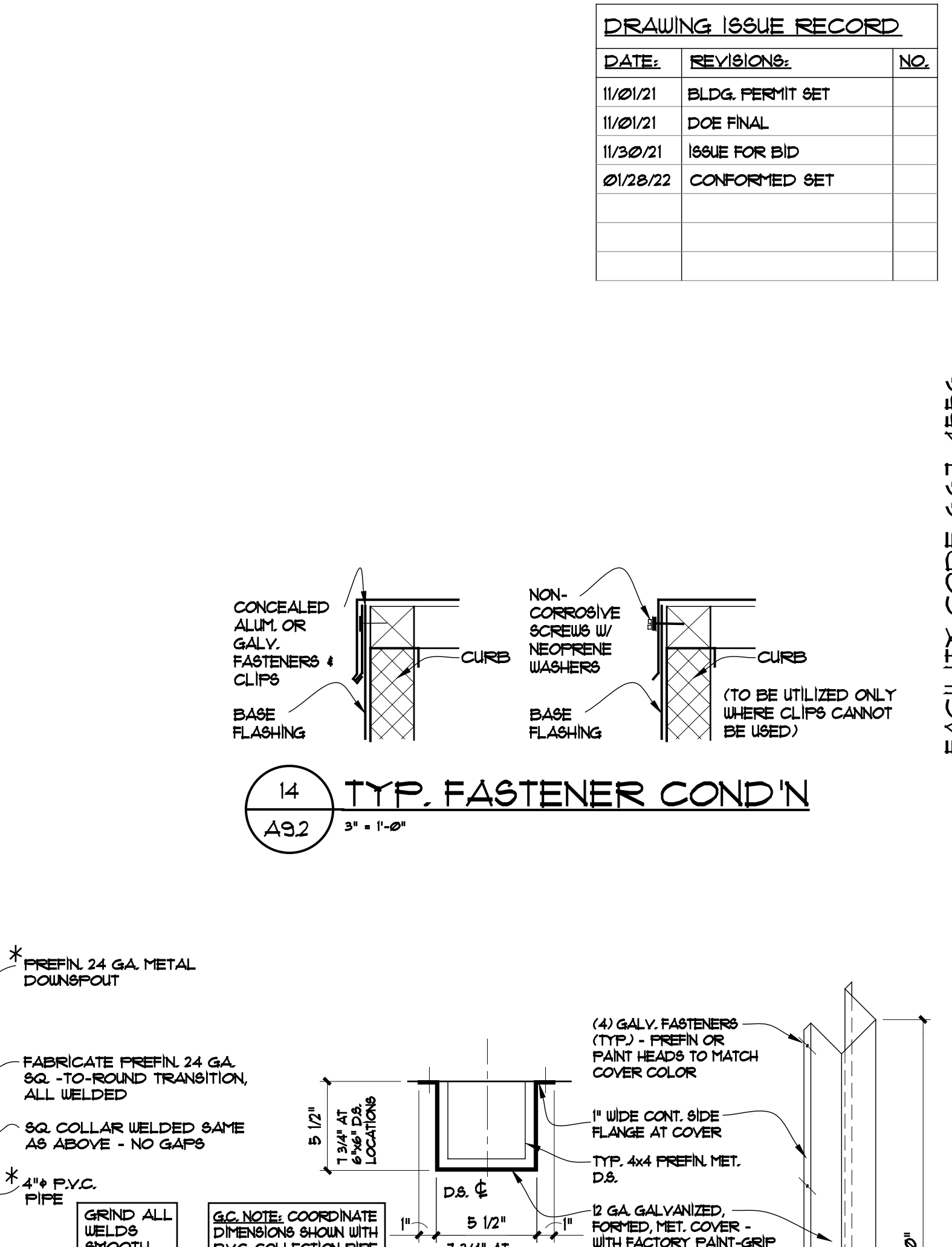
**A9.2**



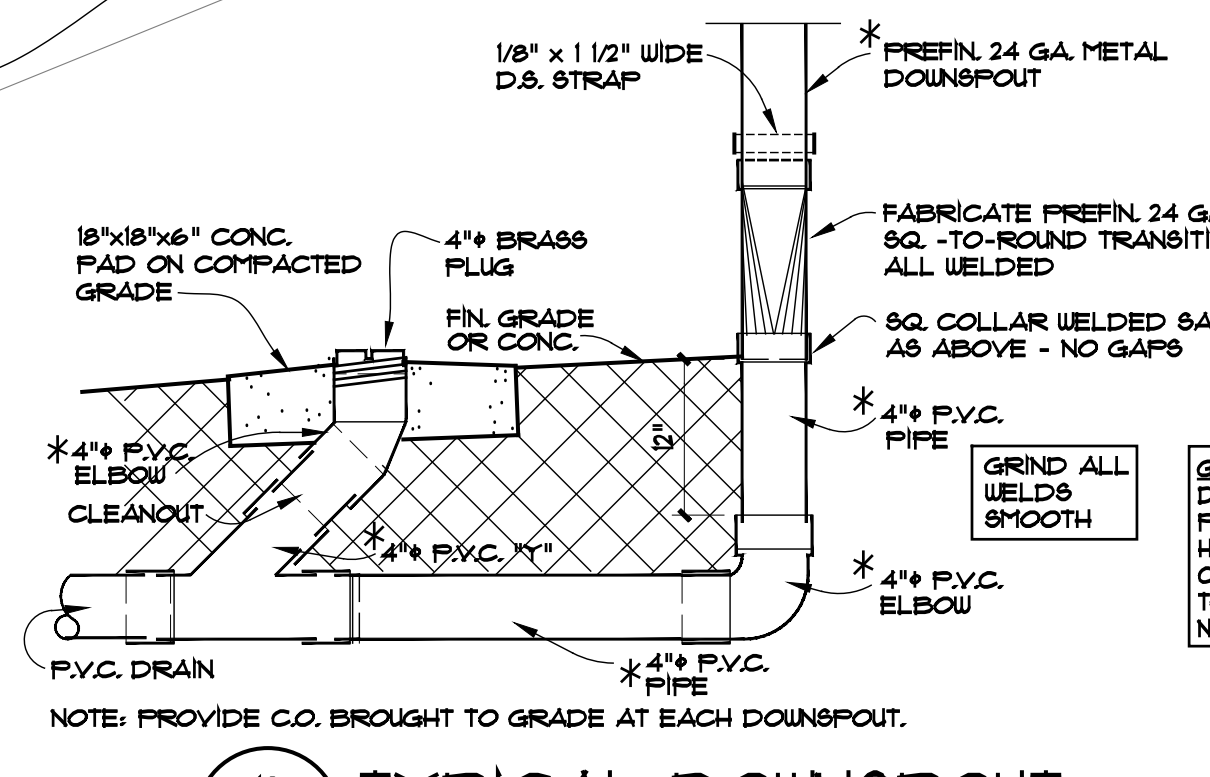
**10 ISOMETRIC OF TOTALFLASH SYSTEM AT TYP. COLUMN- AT ABOVE GRADE FLASHING**  
A9.2  
NO SCALE



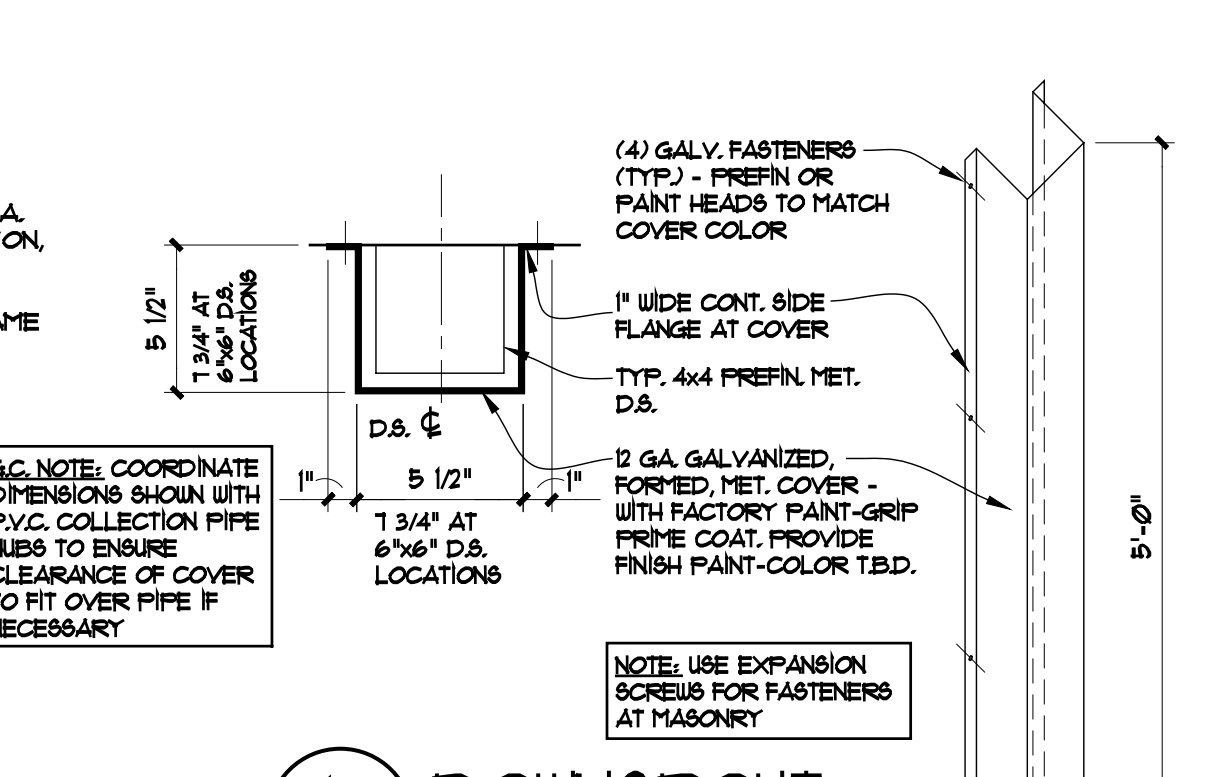
**11 ISOMETRIC OF TOTALFLASH SYSTEM AT TYP. CORNER- AT ABOVE GRADE FLASHING**  
A9.2  
NO SCALE



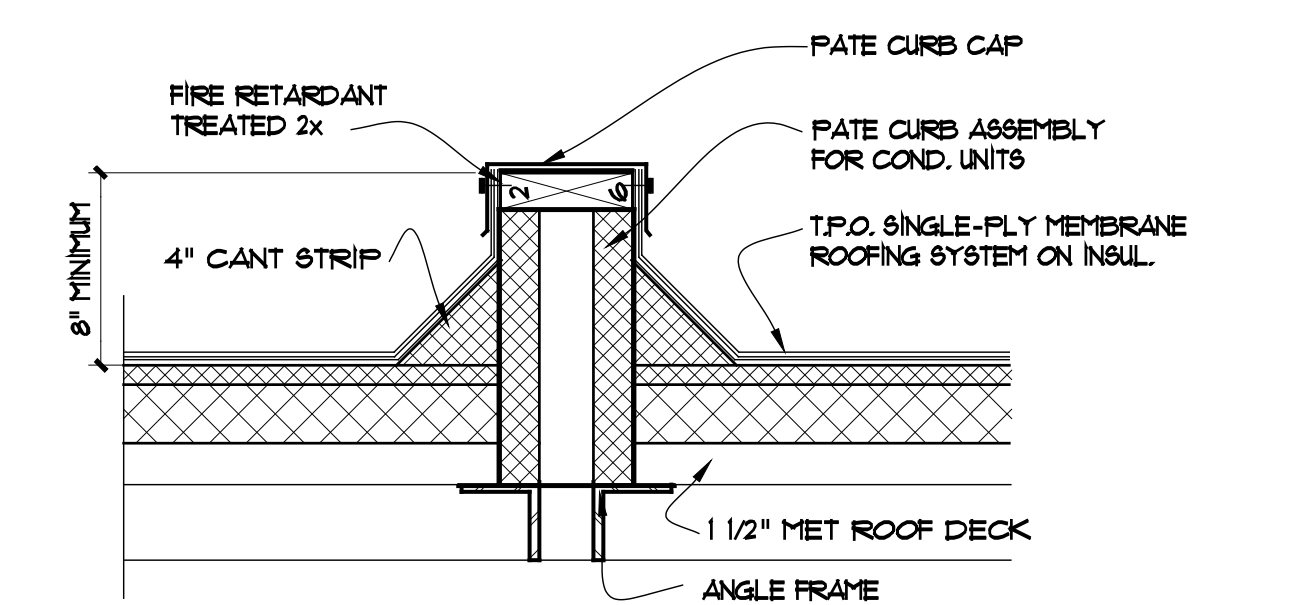
**14 TYP. FASTENER COND'N**  
A9.2  
3\"/>



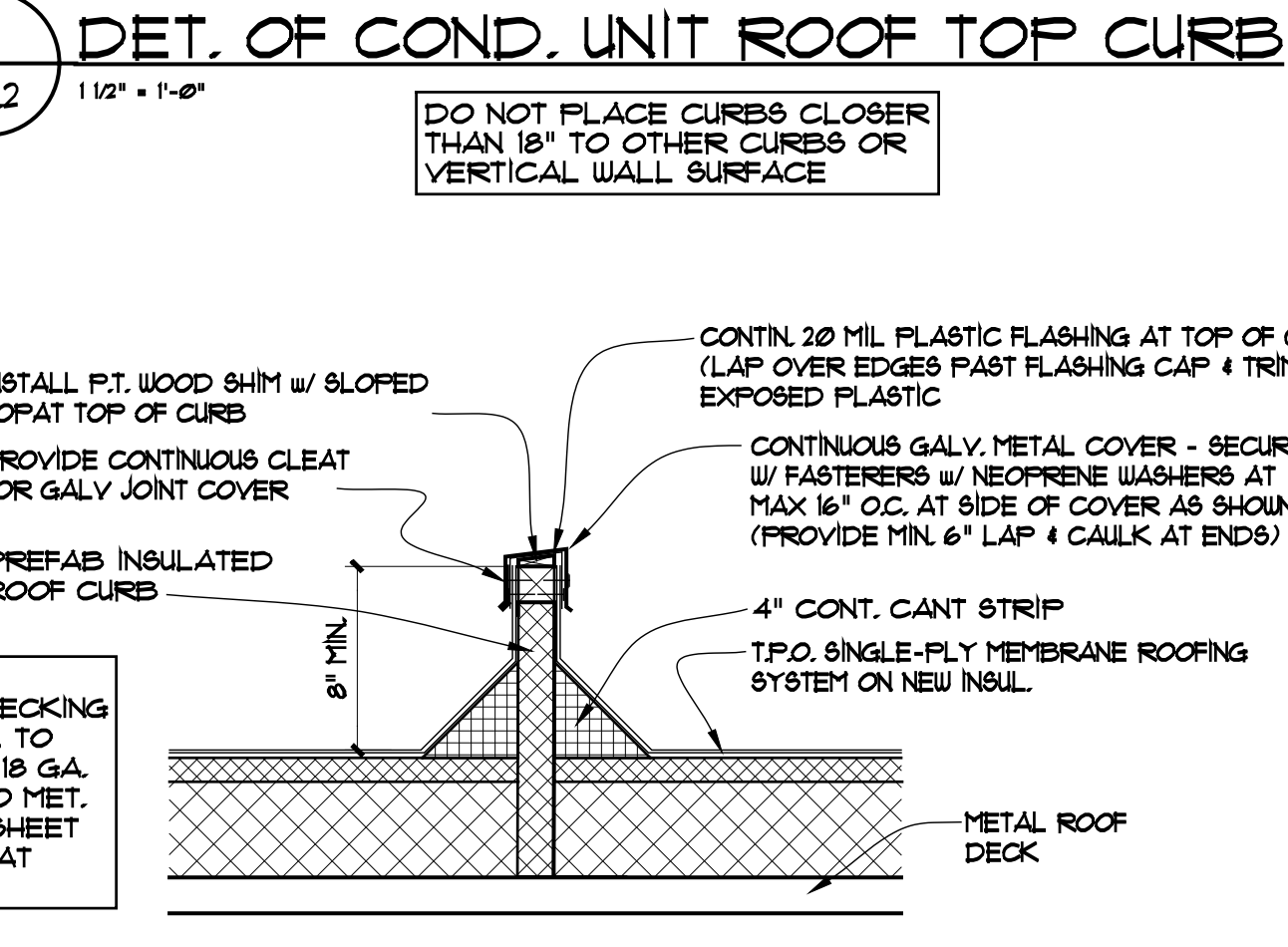
**12 TYPICAL DOWNSPOUT COLLECTION DETAIL**  
A9.2  
1\"/>



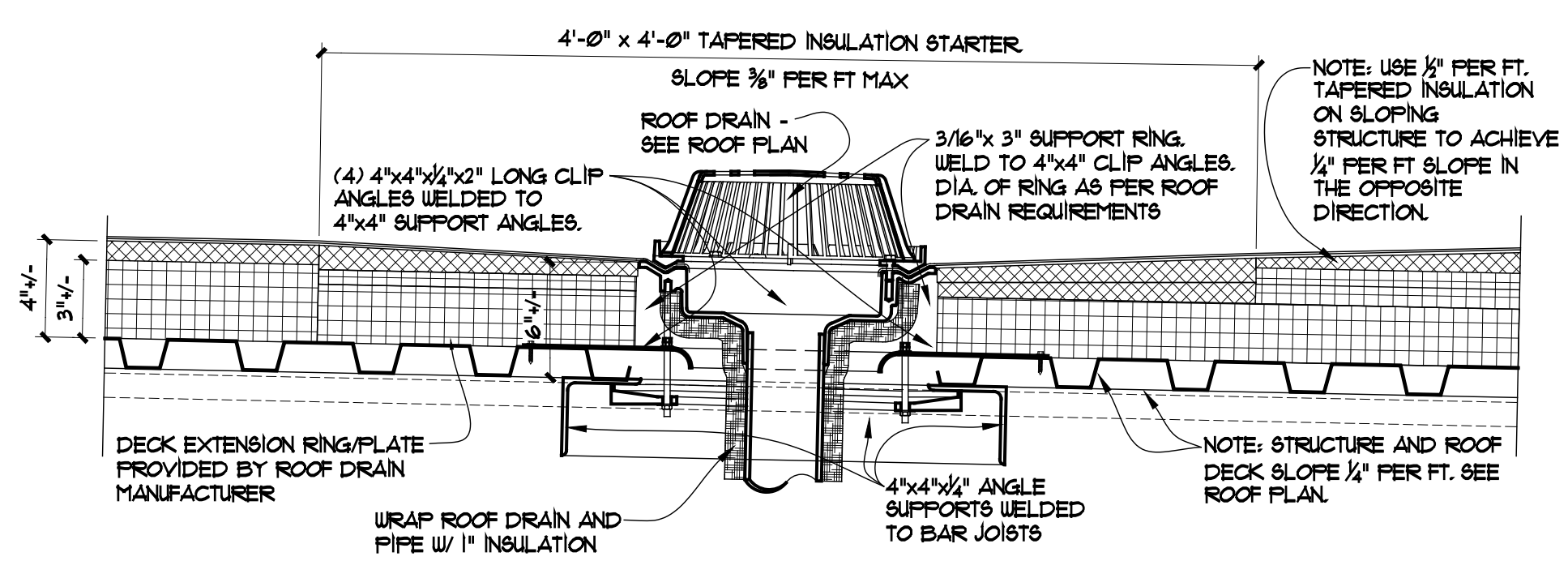
**13 DOWNSPOUT BOOT DETAIL**  
A9.2  
NOT TO SCALE



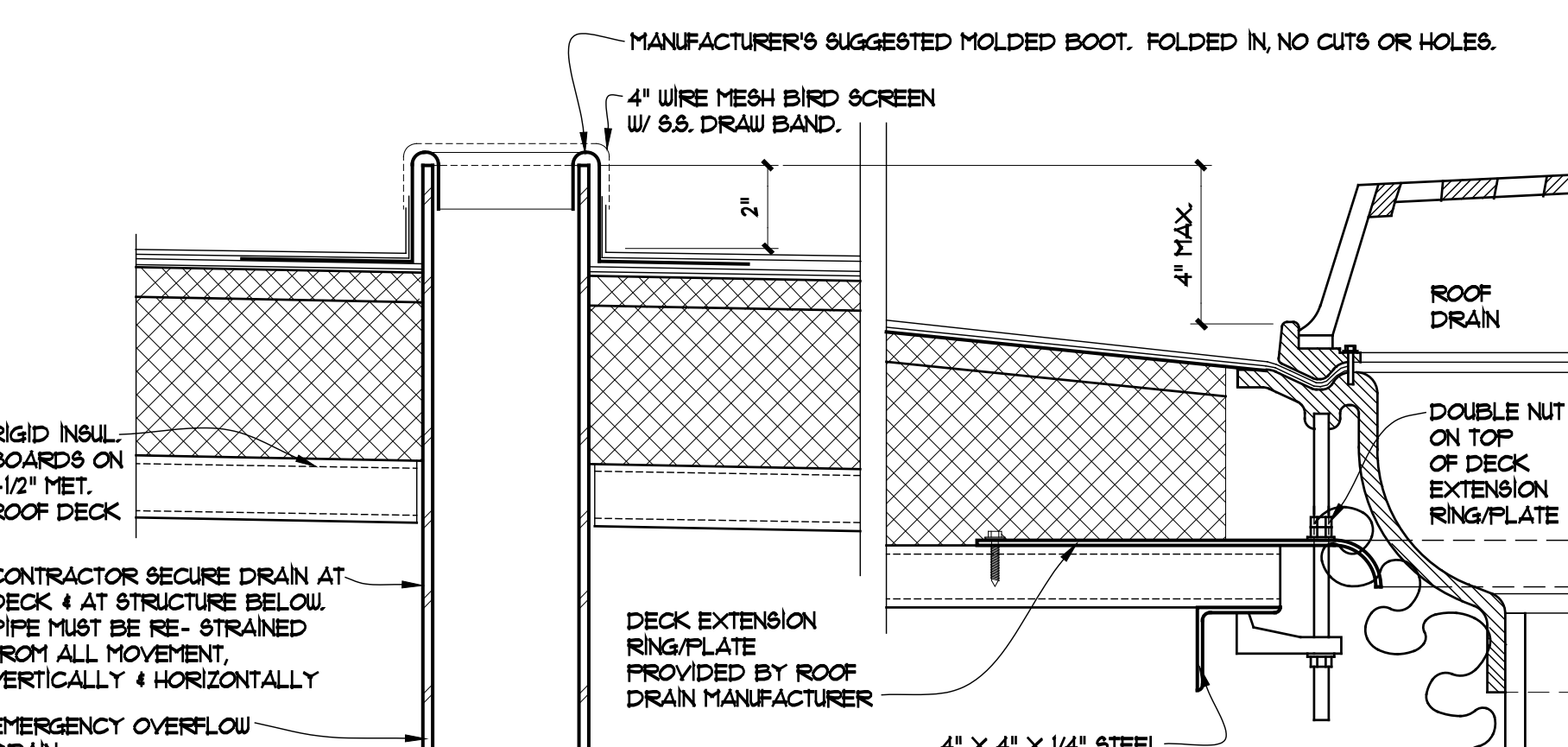
**9 DET. OF COND. UNIT ROOF TOP CURB**  
A9.2  
1 1/2\"/>



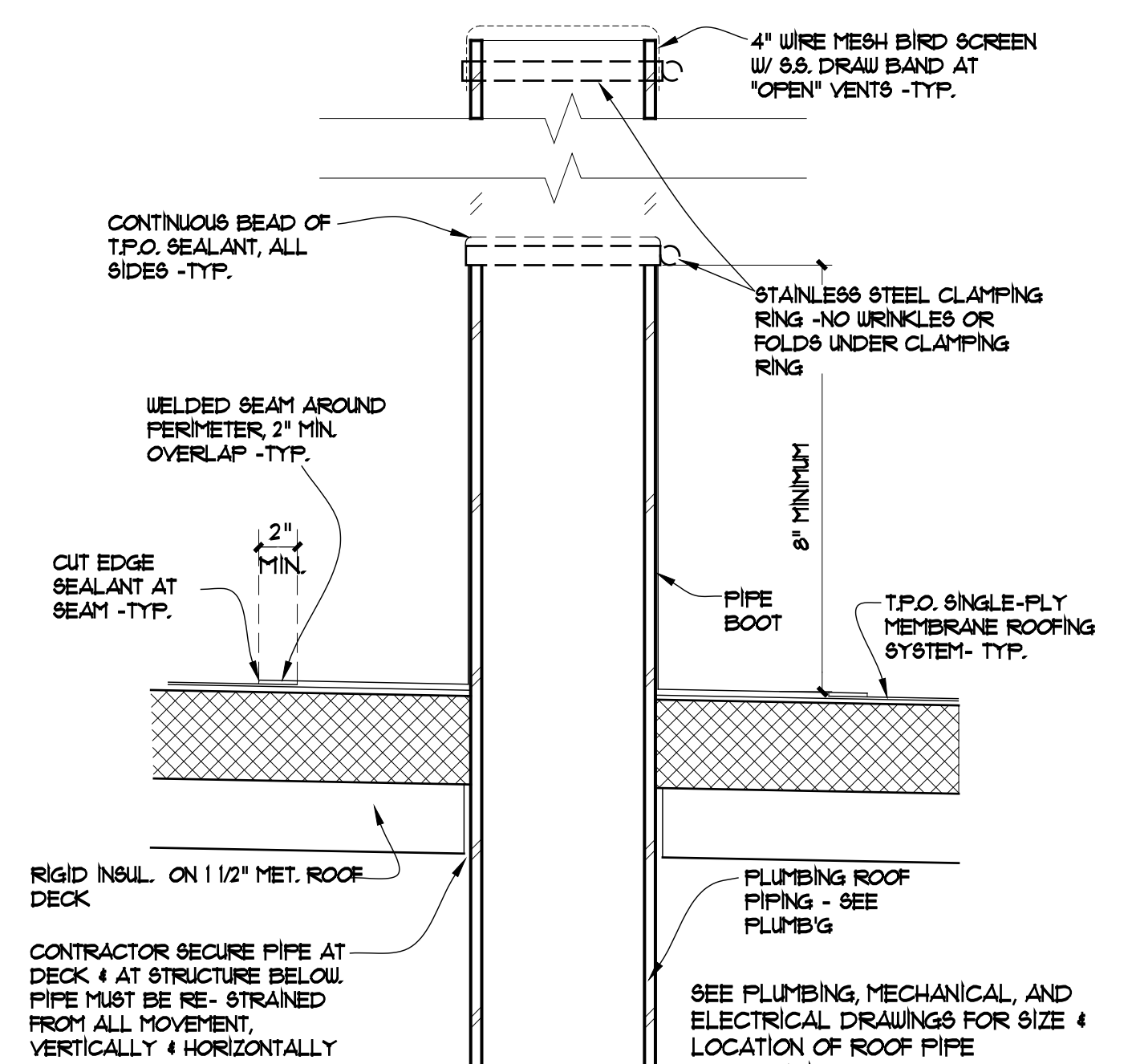
**8 TYP. DET. AT NON-STRUCTURAL ROOFING ISOLATION CURB**  
A9.2  
1 1/2\"/>



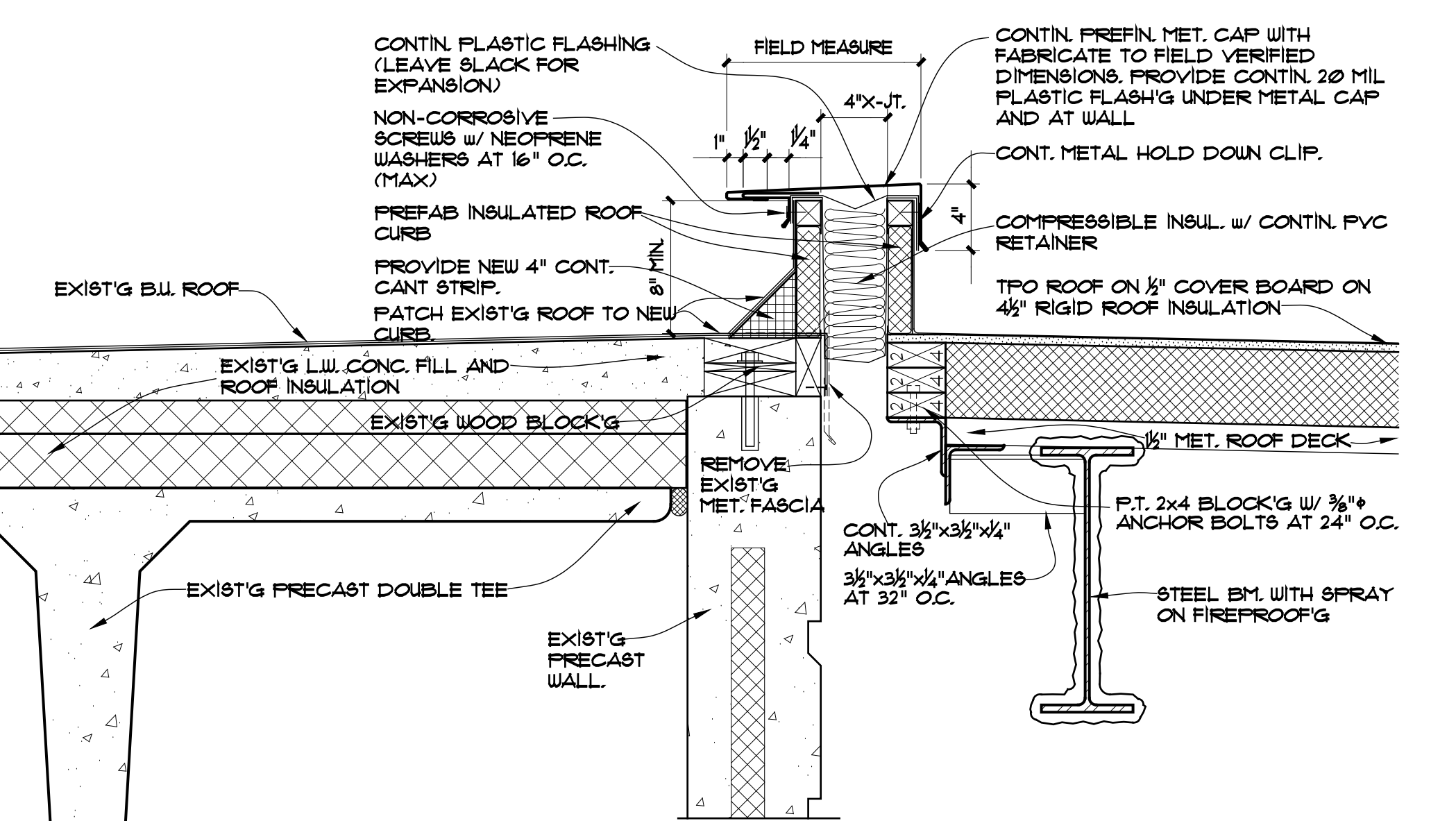
**6 ROOF DRAIN DET.**  
A9.2  
3\"/>



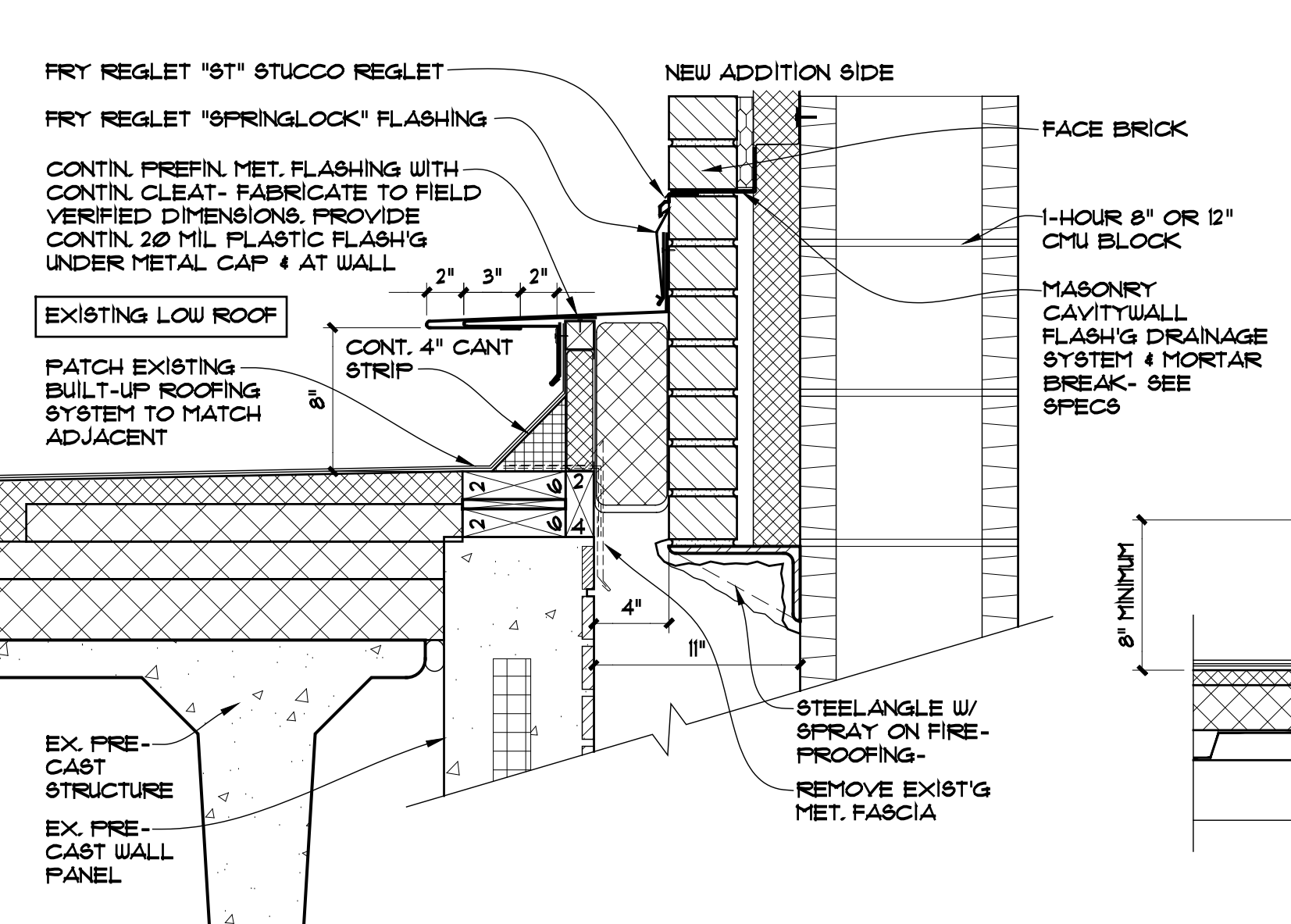
**5 OVERFLOW DRAIN DET.**  
A9.2  
3\"/>



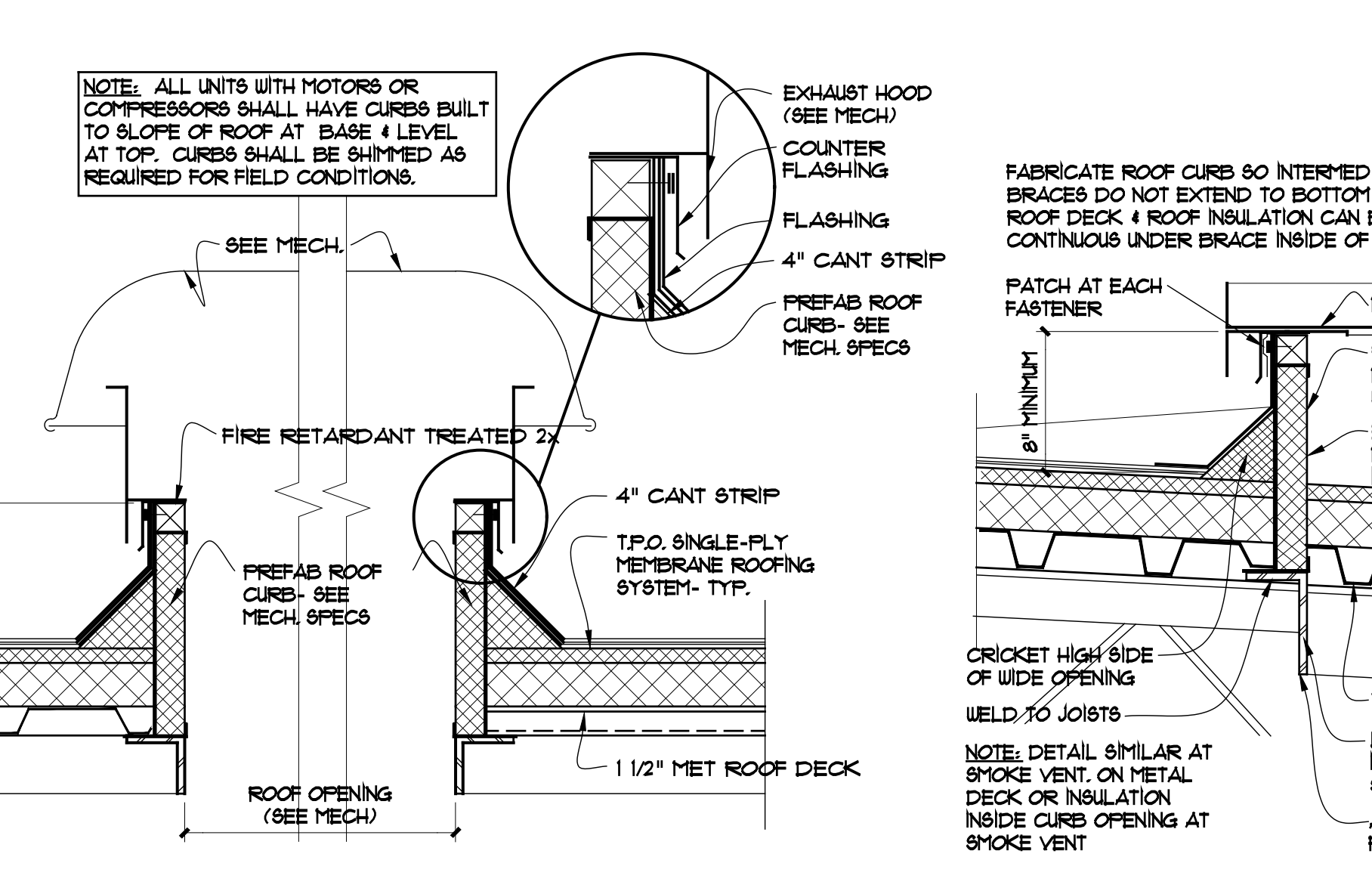
**4 ROOF VENT DET.**  
A9.2  
3\"/>



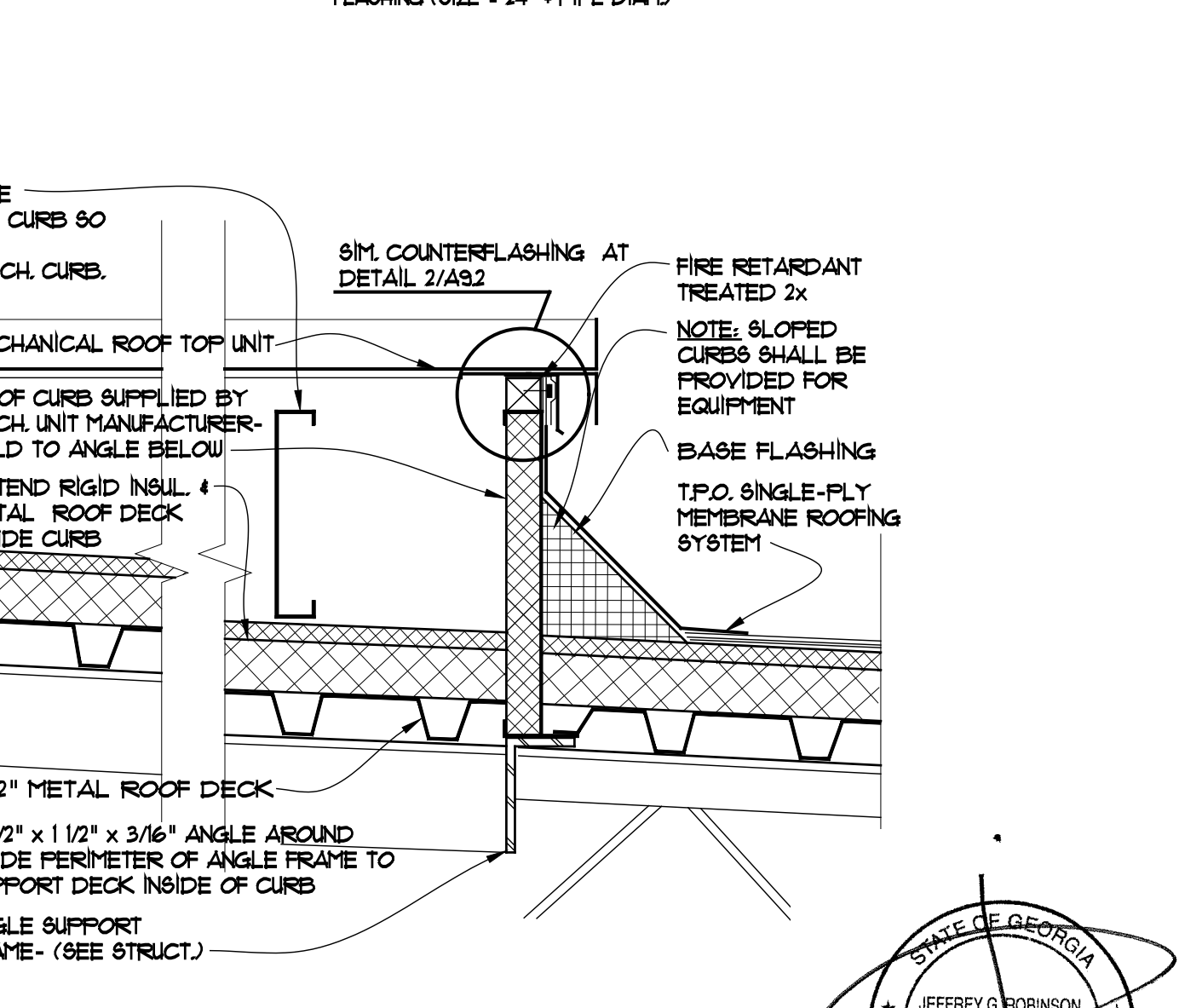
**1 ROOF "X-JT" AT BUILDING EXPANSION JOINT DETAIL**  
A9.2  
1 1/2\"/>



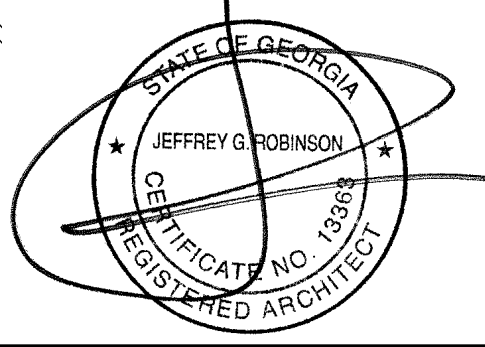
**3 ROOF "X-JT" AT BLDG. HIGH/ LOW JOINT**  
A9.2  
1 1/2\"/>



**2 TYP. ROOF CURB DET. FOR EXHAUST HOODS**  
A9.2  
1 1/2\"/>



**1 TYP. SUPPORT CURB DETAILS AT MECH. ROOF TOP UNITS**  
A9.2  
1 1/2\"/>



DRAWING ISSUE RECORD		
DATE	REVISIONS	NO
9/16/2021	DDE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DDE FINAL	
11/30/2021	ISSUE FOR BID	
2/10/2022	ADDENDUM #1	
1/28/22	CONFORMED SET	

FACILITY CODE 66T-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
 JOB NO.: SHL-D01-21  
 DWG. BY: J.C.F.  
 OK BY: M.W.D.

DISTRICT 7, LAND LOT 287, PARCEL 015

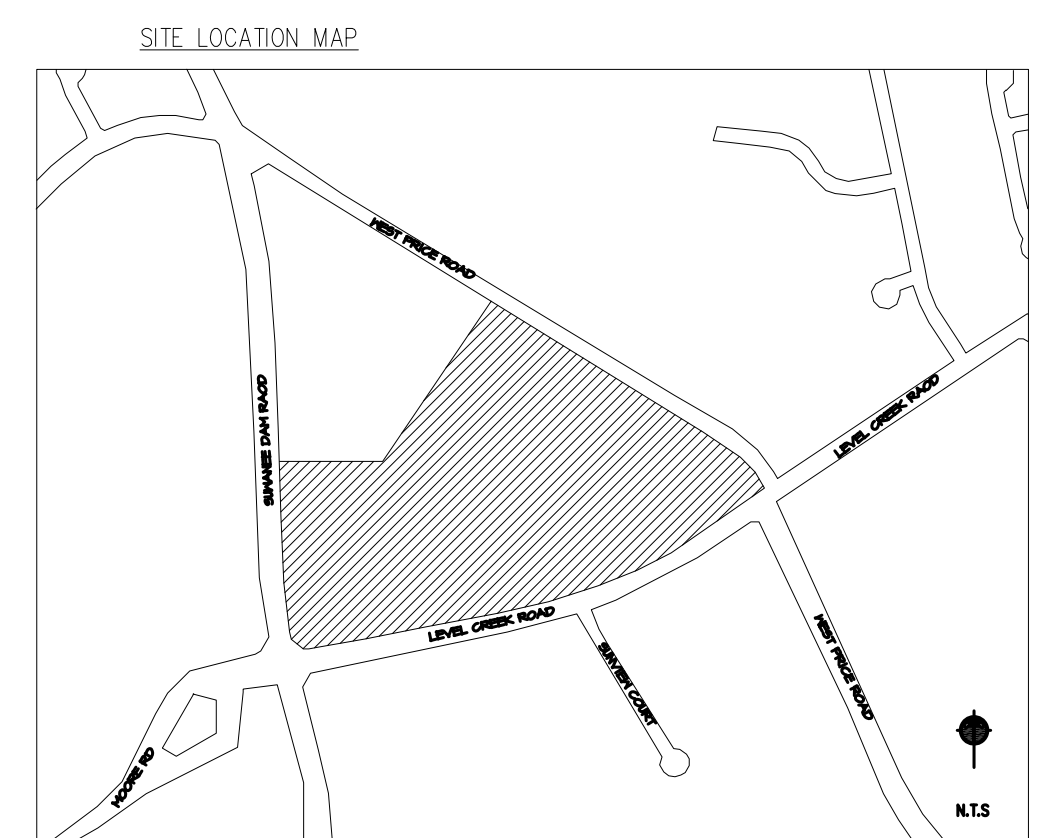
**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

**PDO.1**

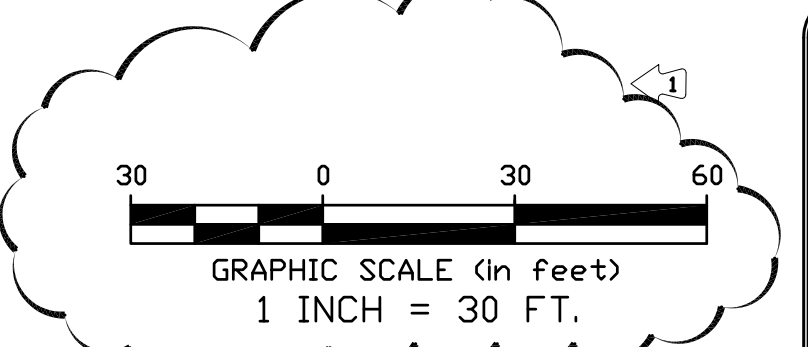
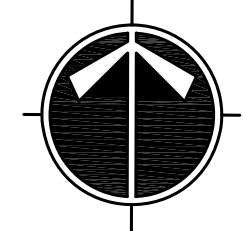


DEVELOPER:  
 GWINNETT COUNTY PUBLIC SCHOOLS  
 55 GWINNETT DRIVE, BUILDING C  
 LAWRENCEVILLE, GA 30045  
 PH: 770-518-6055  
 FX: 770-518-6711  
 WWW.GWINNETT.K12.GA.US



SITE PLAN KEY PLAN

1 SITE PLAN - PLUMBING - DEMO  
 PDO SCALE: 1" = 30'



THE EXISTING UTILITIES SHOWN ON THIS PLAN WERE OBTAINED FROM VARIOUS UTILITY COMPANIES, VARIOUS GOVERNMENTAL AGENCIES, AND MOBILE GROUND OBSERVATION. THE SURVEYOR AND/OR ENGINEER MAKE NO CLAIM TO THE COMPLETENESS OF THIS INFORMATION. THE SIZE, LOCATION, OR ADDITIONAL UTILITIES MAY BE UNDISCOVERED UPON EXCAVATION. PRIOR TO BEGINNING ANY EARTH DISTURBING ACTIVITIES, THE UTILITY PROTECTION SERVICE FOR THIS AREA MUST BE NOTIFIED.

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 CALL US FIRST!  
 UTILITIES PROTECTION CENTER  
 STATE WIDE  
 CALL 811  
 IT'S THE LAW!



**GORGIA**  
 REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL W. DILLON  
 No. 21824

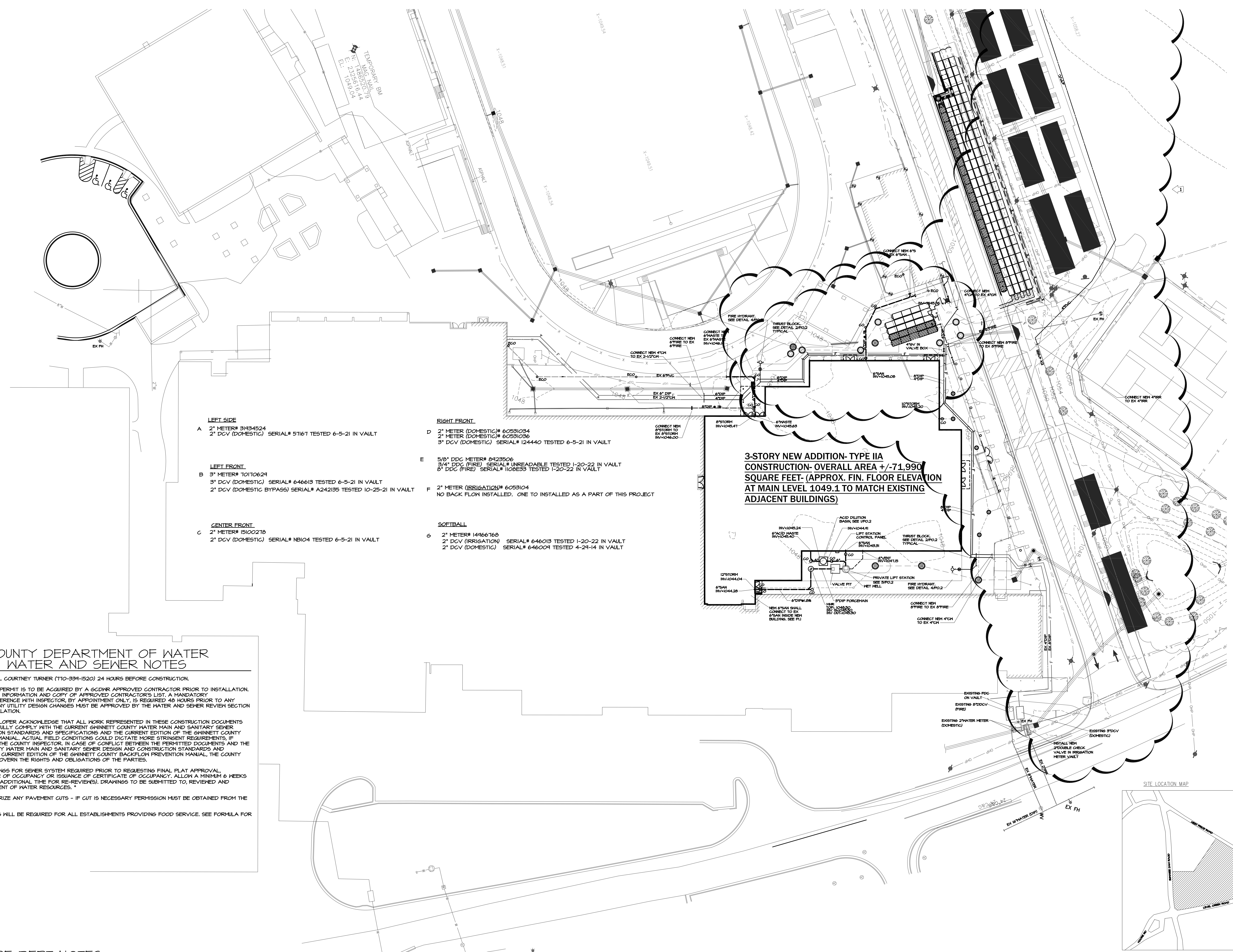
**SPURLOCK & ASSOCIATES, INC.**  
 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
 P: 404.633.0245 | F: 404.633.1756  
 6A JOB NO. 212

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
2/10/2022	APPENDUM #1	
2/21/2022	APPENDUM #3	
2/28/2022	CONFORMED SET	

FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DISTRICT 7, LAND LOT 28T, PARCEL 015

**cunningham forehand matthews moore**  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152  
 DATE: MARCH 1, 2021  
 JOB NO.: SH-LD01-21  
 DWG. BY: J.C.F.  
 CK. BY: M.W.D.



- LEFT SIDE**
- A 2" METER (DOMESTIC) SERIAL# 57167 TESTED 6-5-21 IN VAULT
  - 2" DCV (DOMESTIC)
- LEFT FRONT**
- B 3" METER (DOMESTIC) SERIAL# 646619 TESTED 6-5-21 IN VAULT
  - 3" DCV (DOMESTIC) SERIAL# A24295 TESTED 10-25-21 IN VAULT
  - 2" DCV (DOMESTIC BYPASS) SERIAL# 6059104
- CENTER FRONT**
- C 2" METER (DOMESTIC) SERIAL# NB104 TESTED 6-5-21 IN VAULT
  - 2" DCV (DOMESTIC)
- RIGHT FRONT**
- D 2" METER (DOMESTIC) SERIAL# 60591034
  - 2" METER (DOMESTIC) SERIAL# 60591036
  - 3" DCV (DOMESTIC) SERIAL# 124440 TESTED 6-5-21 IN VAULT
- E** 5/8" DDC METER# 0423506  
 3/4" DDC (FIRE) SERIAL# UNREADABLE TESTED 1-20-22 IN VAULT  
 2" DCV (FIRE) SERIAL# 10689 TESTED 1-20-22 IN VAULT
- F** 2" METER (IRRIGATION) SERIAL# 6059104  
 NO BACK FLOW INSTALLED. ONE TO BE INSTALLED AS A PART OF THIS PROJECT
- SOFTBALL**
- G 2" METER (IRRIGATION) SERIAL# 646019 TESTED 1-20-22 IN VAULT
  - 2" DCV (DOMESTIC) SERIAL# 646004 TESTED 4-24-14 IN VAULT

**3-STORY NEW ADDITION- TYPE IIA**  
**CONSTRUCTION- OVERALL AREA +/-71,990**  
**SQUARE FEET- (APPROX. FIN. FLOOR ELEVATION**  
**AT MAIN LEVEL 1049.1 TO MATCH EXISTING**  
**ADJACENT BUILDINGS)**

**GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES: WATER AND SEWER NOTES**

- GEORGIA DOT RAH - CALL COURTNEY TURNER (770-394-1520) 24 HOURS BEFORE CONSTRUCTION.
- A UTILITY CONSTRUCTION PERMIT IS TO BE ACQUIRED BY A GCDWR APPROVED CONTRACTOR PRIOR TO INSTALLATION. CALL 678-518-6000 FOR INFORMATION AND COPY OF APPROVED CONTRACTORS LIST. A MANDATORY PRE-CONSTRUCTION CONFERENCE WITH INSPECTOR, BY APPOINTMENT ONLY, IS REQUIRED 48 HOURS PRIOR TO ANY UTILITY CONSTRUCTION. ANY UTILITY DESIGN CHANGES MUST BE APPROVED BY THE WATER AND SEWER REVENUE SECTION OF P4D PRIOR TO INSTALLATION.
- THE DESIGNER AND DEVELOPER ACKNOWLEDGE THAT ALL WORK REPRESENTED IN THESE CONSTRUCTION DOCUMENTS HAS BEEN DESIGNED TO FULLY COMPLY WITH THE CURRENT GWINNETT COUNTY WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE CURRENT EDITION OF THE GWINNETT COUNTY BACKFLOW PREVENTION MANUAL. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS, IF DETERMINED NECESSARY BY THE COUNTY INSPECTOR. IN CASE OF CONFLICT BETWEEN THE PERMITTED DOCUMENTS AND THE CURRENT GWINNETT COUNTY WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE CURRENT EDITION OF THE GWINNETT COUNTY BACKFLOW PREVENTION MANUAL, THE COUNTY SPECIFICATIONS SHALL GOVERN THE RIGHTS AND OBLIGATIONS OF THE PARTIES.
- AS-BUILT RECORD DRAWINGS FOR SEWER SYSTEM REQUIRED PRIOR TO REQUESTING FINAL PLAT APPROVAL. TEMPORARY CERTIFICATE OF OCCUPANCY OR ISSUANCE OF CERTIFICATE OF OCCUPANCY. ALLOW A MINIMUM 6 WEEKS FOR INITIAL REVIEW AND ADDITIONAL TIME FOR RE-REVIEWS. DRAWINGS TO BE SUBMITTED TO, REVIEWED AND APPROVED BY DEPARTMENT OF WATER RESOURCES.
- GCDWR DOES NOT AUTHORIZE ANY PAVEMENT CUTS - IF CUT IS NECESSARY PERMISSION MUST BE OBTAINED FROM THE OWNER OF STREET.
- EXTERIOR GREASE TRAPS WILL BE REQUIRED FOR ALL ESTABLISHMENTS PROVIDING FOOD SERVICE. SEE FORMULA FOR # OF TRAPS.

**FIRE DEPT NOTES:**

- HYDRANTS ARE TO BE INSTALLED A MINIMUM OF 3'-0" AND A MAXIMUM OF 15'-0" FROM THE BACK OF THE CURB OR ROAD EDGE WITH THE LARGE FIRE DEPARTMENT CONNECTION FACING THE FIRE DEPARTMENT ACCESS POINT. THAT SAME CONNECTION IS TO BE NO LESS THAN 18" OR MORE THAN 36" ABOVE FINISHED GRADE. HYDRANTS LOCATED IN PARKING AREAS SHALL BE PROTECTED BY BARRIERS THAT WILL PREVENT PHYSICAL DAMAGE BY VEHICLES. (NFPA 1141 3-4.5, 3-4.6.6 AND 6CFR-91.1)
- HYDRANTS AND MAINS SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
- A GEORGIA CERTIFICATE OF COMPETENCY HOLDER FOR AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE UNDERGROUND SUPPLY PIPING.
- INSTALLATION OF UNDERGROUND FIRE SPRINKLER WATER SUPPLY SHALL BE PERFORMED BY A UTILITY, FIRE SPRINKLER CONTRACTOR, OR PLUMBING CONTRACTOR LICENSED UNDER CHAPTER 11, TITLE 25, SECTIONS 25-11-7.

**GENERAL NOTES:**

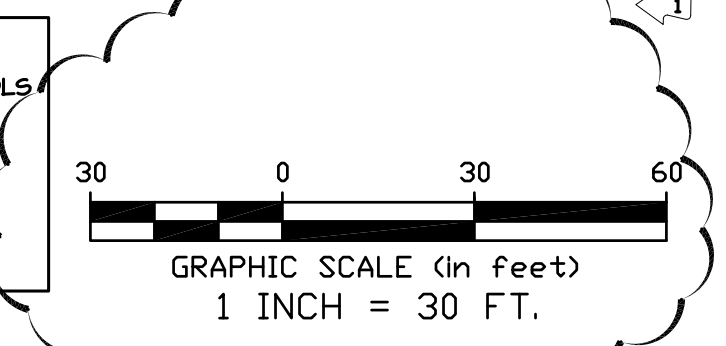
- CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF EXISTING CONDITIONS FROM THAT SHOWN ON PLANS OR OF ANY CONDITION PROHIBITING WORK TO BE INSTALLED AS SHOWN ON PLANS BEFORE WORK IS BEGUN.
- CONFIRM INVERTS OF EXISTING SEWERS SHOWN ON THE DRAWINGS BEFORE INSTALLING ANY PIPING.
- INSTALL WARNINGS/TRACER TAPE 12" ABOVE ALL UNDERGROUND PIPING. SEE SPECIFICATIONS FOR REQUIREMENTS.

**1 SITE PLAN - PLUMBING-PO.2**  
 SCALE: 1" = 30'

**WATER FLOW TEST DATA**  
 FLOW TEST DATE: 10/28/21  
 STATIC PRESSURE: 145 PSI  
 RESIDUAL PRESSURE: 140 PSI  
 FLOW - 1,453 GPM  
 FLOW AVAILABLE @ 20 P.S.I. = 8,236 GPM

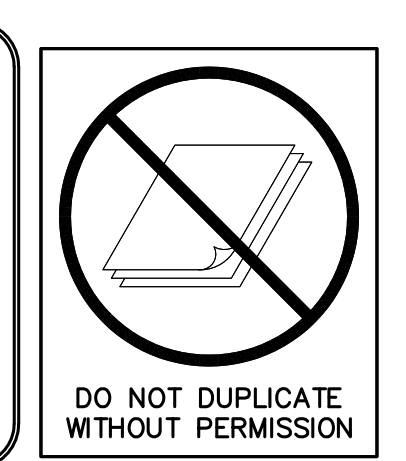
NOTE: FLOW TEST ABOVE IS FOR PERMITTING PURPOSE ONLY. SPRINKLER CONTRACTOR SHALL PERFORM A SEPARATE 24 HOUR FLOW TEST TO CONFIRM PRESSURES FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM. ALL FIRE FLOWS SHALL MEET THE REQUIRED FLOW RATES FOUND IN INTERNATIONAL FIRE CODES 2018 APPENDIX B.

DEVELOPER:  
 GWINNETT COUNTY PUBLIC SCHOOLS  
 55 GWINNETT DRIVE BUILDING C  
 LAWRENCEVILLE, GA 30046  
 PH: 770-518-6855  
 FX: 770-518-6711  
 WWW.GWINNETT.K12.GA.US



THE EXISTING UTILITIES SHOWN ON THIS PLAN WERE OBTAINED FROM VARIOUS UTILITY COMPANIES, VARIOUS GOVERNMENTAL AGENCIES, AND PRIVATE SOURCE INFORMATION. THE SUBMITTER AND/OR ENGINEER MAKE NO CLAIM TO THE COMPLETENESS OF THIS INFORMATION. THE SOLE LOCATION OF ADDITIONAL UTILITIES MAY BE UNDISCOVERED BY THE SOLE EXAMINATION. PRIOR TO BEGINNING ANY EARTH DISTURBING ACTIVITIES, THE UTILITY PROTECTION SERVICE FOR THIS AREA MUST BE NOTIFIED.

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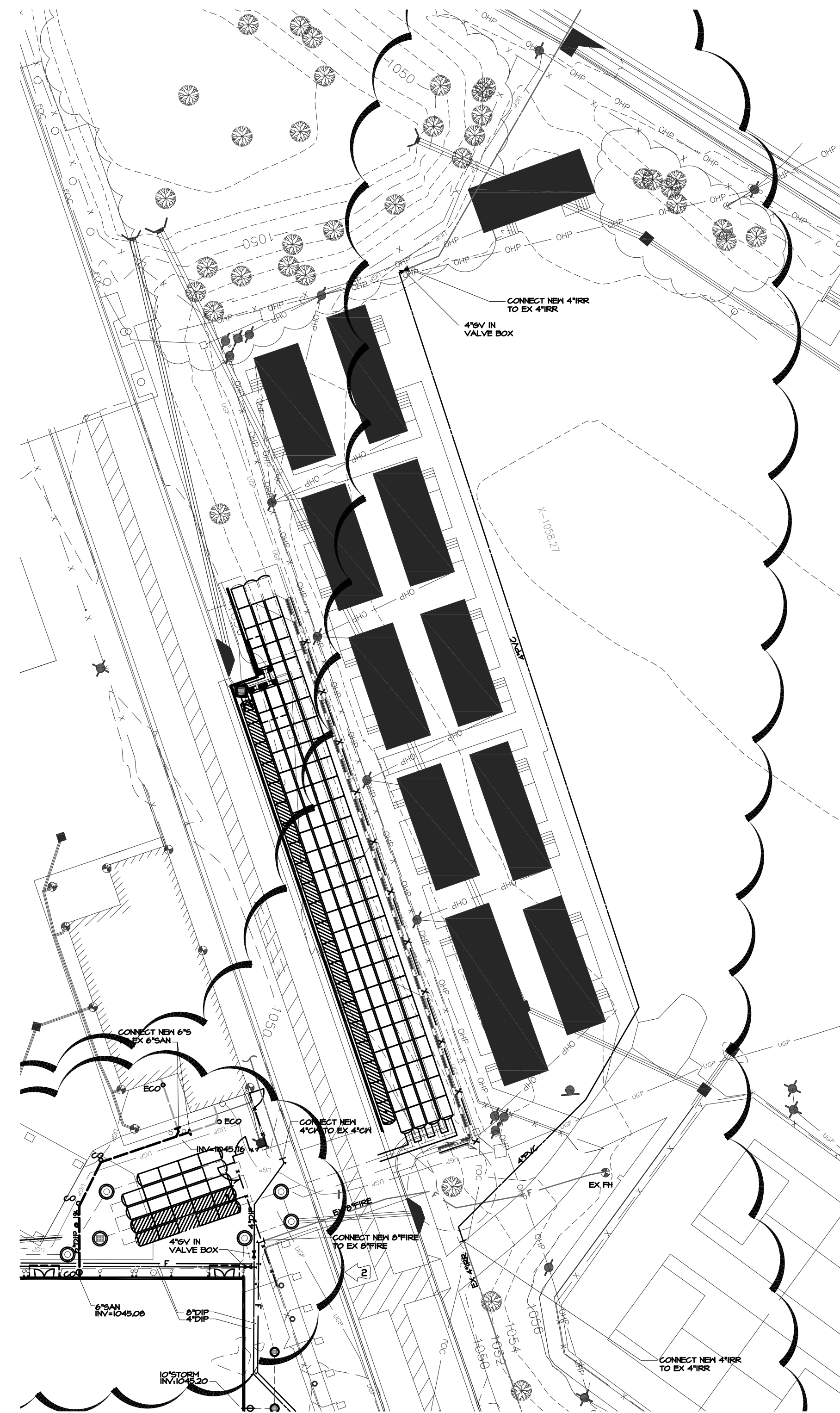


**SPURLOCK & ASSOCIATES, INC.**  
 consulting engineers  
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 SA JOB NO. 212

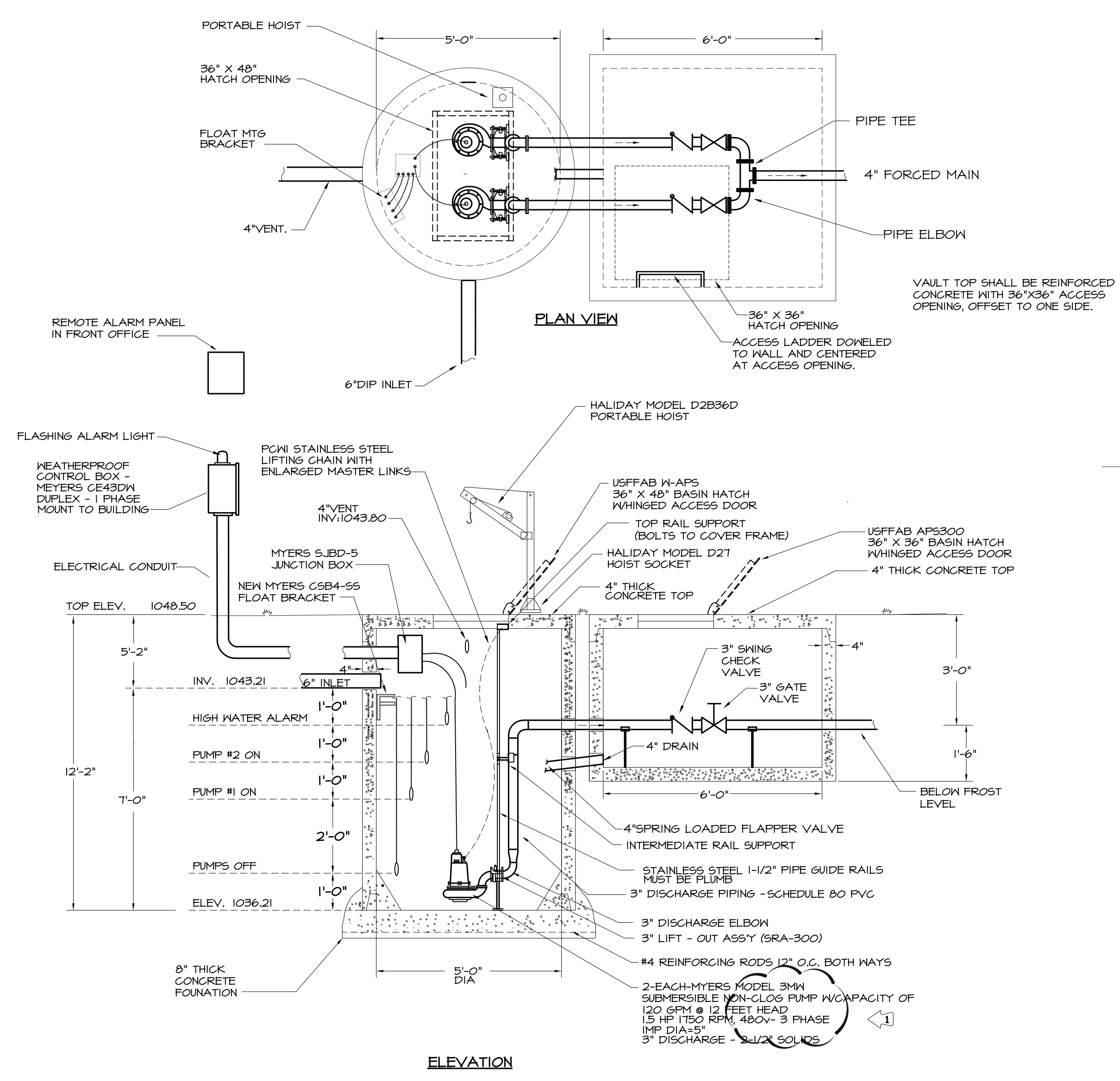
**P0.1**

### SITE PLUMBING LEGEND

SYMBOL	DESCRIPTION
---	SOIL OR WASTE ABOVE SLAB
---	SOIL OR WASTE PIPING BELOW SLAB OR GRADE
---	COLD WATER PIPING
---	RAIN WATER BELOW SLAB OR GRADE
---	PIPING TO BE REMOVED
---	GAS PIPING
---	GAS PIPING BELOW GRADE
---	HIGH PRESSURE GAS PIPING
---	IRRIGATION
---	GATE VALVE OR BALL VALVE
---	CHECK VALVE
---	PRESSURE REDUCING VALVE
---	GAS COCK
---	POST INDICATING VALVE
---	FLOOR DRAIN, "A" INDICATES TYPE
---	CLEANOUT IN FLOOR SLAB OR FINISH GRADE
---	PIPE TURNING UP
---	PIPE TURNING DOWN
---	TEE CONNECTION IN SIDE OF PIPE
---	TEE CONNECTION IN TOP OF PIPE
---	TEE CONNECTION IN TOP OF PIPE
---	UNION
---	END CAP
---	POST INDICATING VALVE
---	RAIN WATER PIPING
---	FIRE DEPARTMENT CONNECTION
---	FIRE LINE
---	FIRE HYDRANT
---	INVERT ELEVATION
---	EXISTING / EX
---	DOWN
---	CLEAN OUT
---	EXISTING CLEAN OUT
---	BELOW FINISHED FLOOR / BELOW FLOOR
---	BELOW GRADE
---	WASTE
---	COLD WATER
---	RIGHT OF WAY

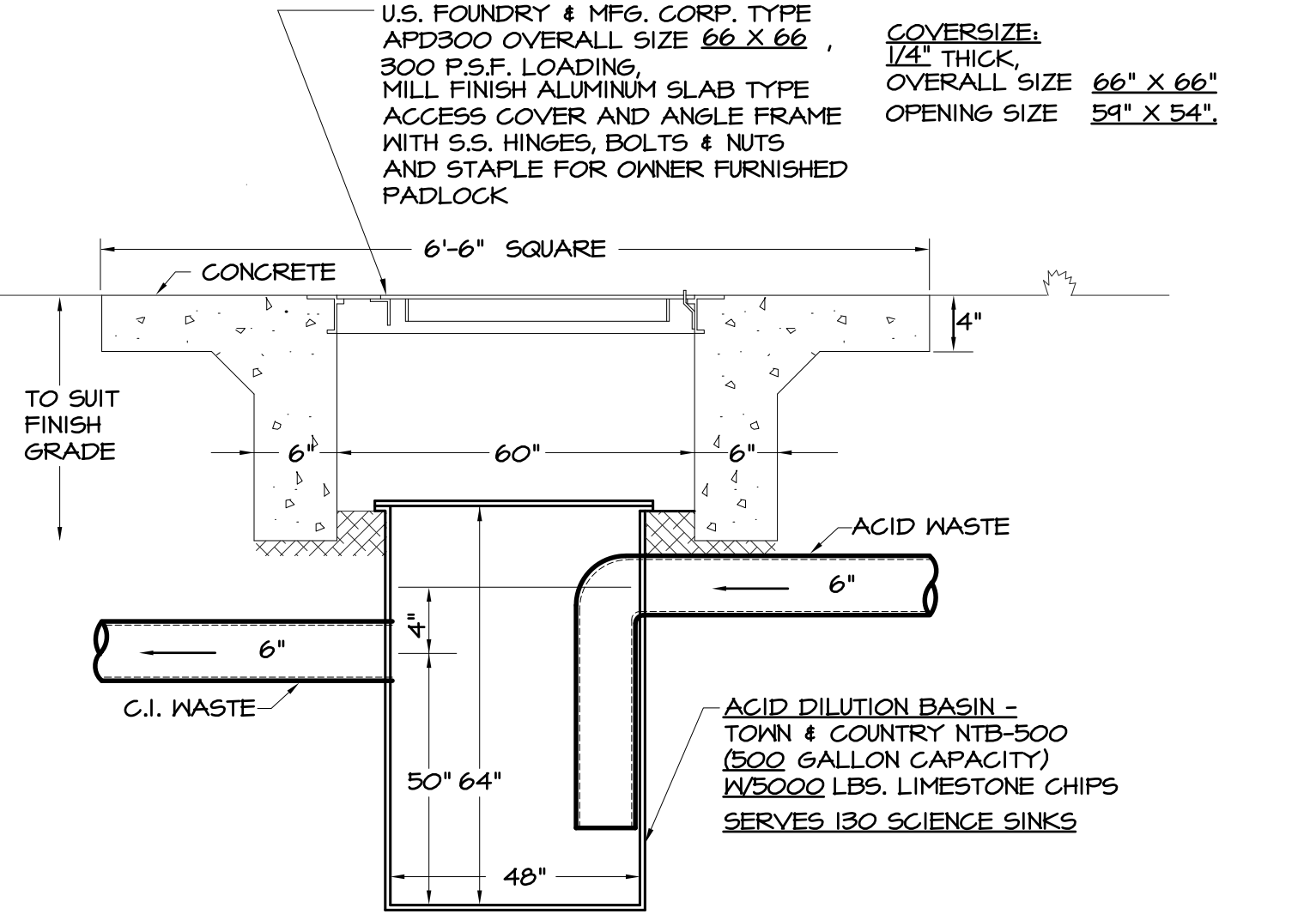


1 SITE PLAN - PLUMBING -  
PO.2 SCALE: 1" = 30'

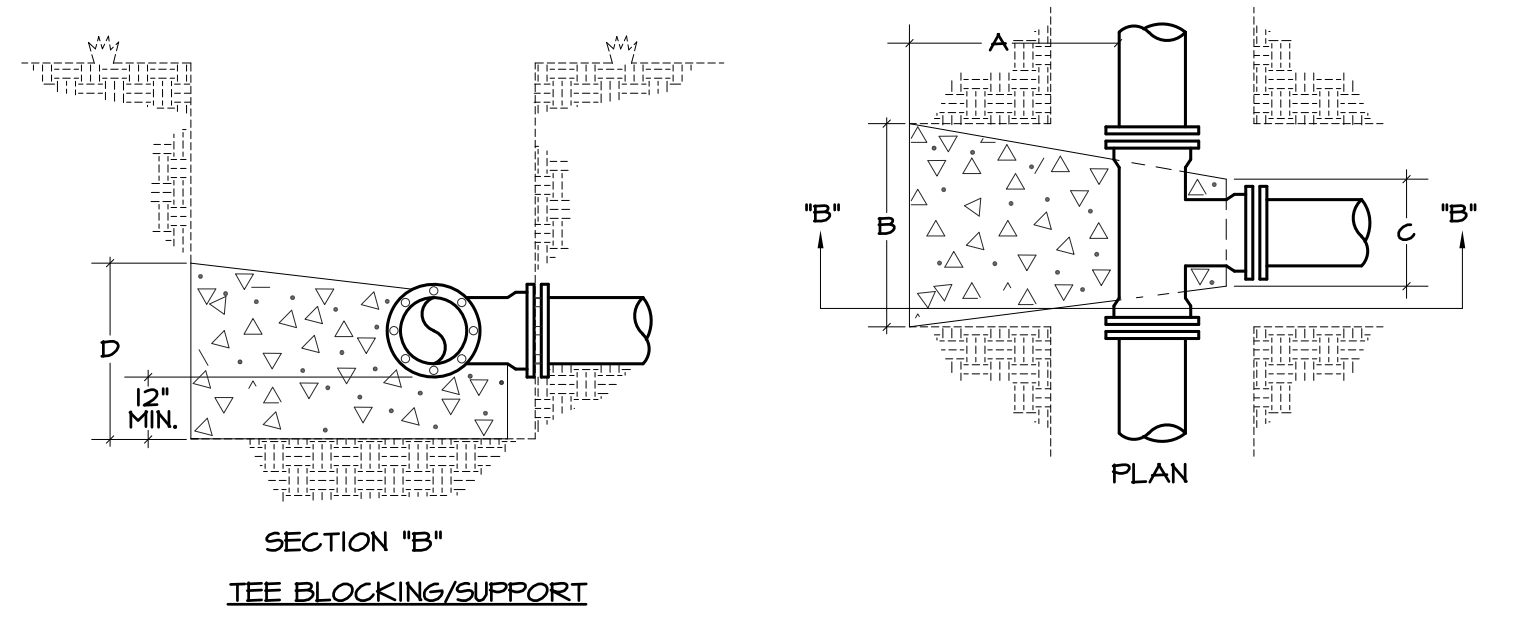


- NOTES:
- BOTTOM OF BASIN SHALL HAVE SMOOTH TROWELED SURFACE FOR MTG. SUPPORT CASTINGS.
  - ALL CONTROLS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
  - EXTERIOR OF MET WELL AND VALVE PIT SHALL BE COATED WITH 2- COATS, 3 MIL COAL TAR EPOXY.
  - ENTIRE INTERIOR AREA OF MET WELL AND VALVE PIT SHALL BE COATED WITH 200 MIL OF WARREN ENVIRONMENTAL S-301 SPRAYABLE EPOXY.

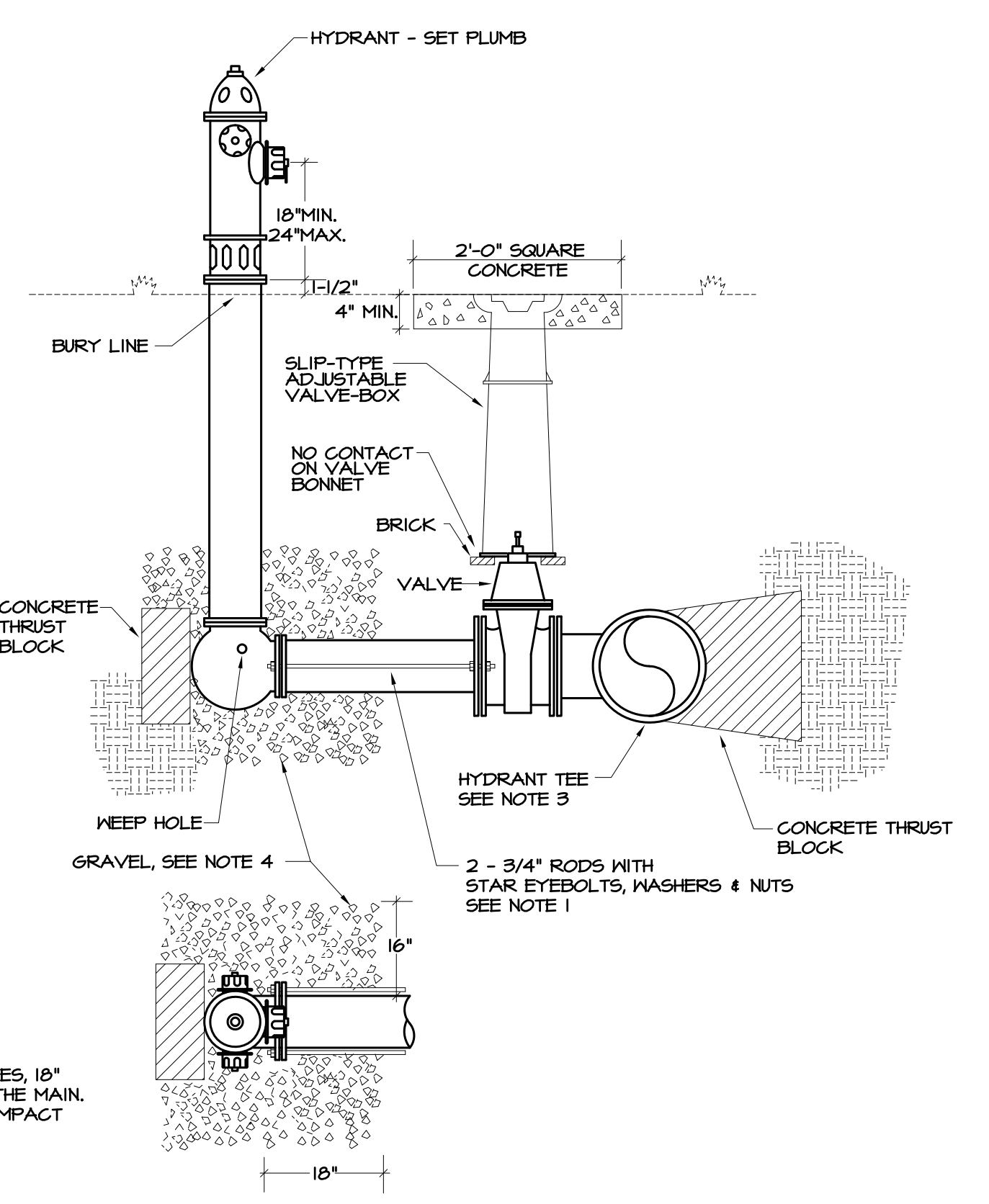
3 SEWAGE LIFT STATION DETAIL  
PO.2 NO SCALE - SCHEMATIC ONLY



1 ACID DILUTION BASIN DETAIL  
PO.2 NO SCALE - SCHEMATIC ONLY




2 CONCRETE THRUST BLOCK DETAIL  
PO.2 NO SCALE - SCHEMATIC ONLY



- NOTES:
- RODS TO BE HIGH TENSILE, HOT ROLLED STEEL WITH TENSILE STRENGTH OF 100,000 P.S.I. AND A MINIMUM YIELD STRENGTH OF 45,000 P.S.I.
  - FOR ALL FIRE MAINS, MINIMUM COVER SHALL BE 4'-0".
  - IF REGULAR TEE IS USED, MINIMUM NIPPLE LENGTHS SHALL BE 12".
  - PLACE GRAVEL TO 6" ABOVE KEEP HOLES, 18" BELOW KEEP HOLES AND 18" TOWARDS THE MAIN. ALSO 16" LATERALLY ON EACH SIDE. COMPACT GRAVEL UNDER HYDRANT.

4 FIRE HYDRANT INSTALLATION DETAIL  
PO.2 NO SCALE - SCHEMATIC ONLY



GWINNETT COUNTY  
DEPARTMENT OF WATER RESOURCES  
684 Winder Highway | Lawrenceville, GA 30045-5012  
678.376.6700  
www.gwinnettcountry.com | www.gwinnett20.com

June 17, 2021

Carey Bell  
Gwinnett County Public Schools  
53 Gwinnett Drive, Building C  
Lawrenceville, GA 30045

Approved  
 Denied  
 Conditionally Approved  
**Sewer Capacity Request #C2021-06-166**  
**Expiration Date: 06/17/2022**  
 Tie-in Manhole FID: 3370992

RE: Sewer Availability for Proposed Development - Addition North Gwinnett High School  
Parcel ID District 7 Land Lot 287, Parcel 015

Dear Mr. Bell:

At present time Gwinnett County Department of Water Resources (GCDWR) can serve the referenced development for sanitary sewer. The existing system has adequate capacity to serve the proposed development consisting of an existing 2,975 student school with a proposed 400 student expansion on the above parcel(s). This confirmation is based on your anticipated peak flow of 172 gpm discharging to the sewer tie-in manhole at Facility ID 3370992. **The requested capacity is valid for 12 months from the date of this letter.** This certification is not valid if there are any development changes (e.g. land use density, sewer tie-in manhole, and/or rezoning) that could impact downstream sewer capacity. In this case the development must resubmit for a new certification with updated information.

Capacity is available on a first-come-first-serve basis. The County is currently making every effort feasible to ensure that there is sufficient sewer capacity to serve its developmental needs. Every proposed project is reviewed and considered for its impact on the individual basins, as well as its overall system impact. At present there are no sewer moratoriums within that basin in Gwinnett County. However, regulatory or court-imposed restrictions, unanticipated new development, or delays in County infrastructure projects could result in a moratorium, which may limit development in a specific or countywide basin. Assuming the Sewer Capacity Certification is current, capacity is relegated to the proposed development only upon issuance of the Development Permit.

Please let me know if you have any questions.

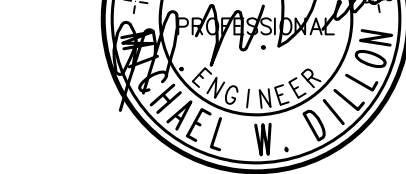
Sincerely,  
GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

*Tai Yi Su*  
Tai Yi Su, PE  
Division Director, Infrastructure Support, Water Resources, Engineering and Technical Services  
678.376.2104

C: Gwinnett County DWR - Lorraine Campagne, Section Manager; Raghu Vemuru, Engineer V; Andrew Loo, Engineer IV; Emily Weber, Engineer III  
Gwinnett County P&E - Charl Young, Planning Manager; Eric Pierson, Engineer II; Kendall Coleman, Engineer I

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UTILITIES PROTECTION CENTER  
STATE WIDE  
CALL 811  
IT'S THE LAW!

DO NOT DUPLICATE  
WITHOUT PERMISSION



**SPURLOCK & ASSOCIATES, INC.**  
consulting engineers  
2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
P: 404.633.0245 | F: 404.633.1756  
8A JOB NO. 212

FACILITY CODE 667-46566

**NORTH GWINNETT HIGH SCHOOL**

**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024

GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 11, 2021  
JOB NO: SH-DO-21  
DWG. BY: J.C.F.  
CHK. BY: M.W.D.

cunningham, forehand, matthews & moore

cunningham, forehand, matthews & moore, architects, inc. - atlanta, georgia 30324 - phone (404) 873-2152

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
2/21/2022	APPENDUM #3	
1/28/22	CONFORMED SET	

FACILITY CODE 66T-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021

JOB NO.: SHL-D0-1

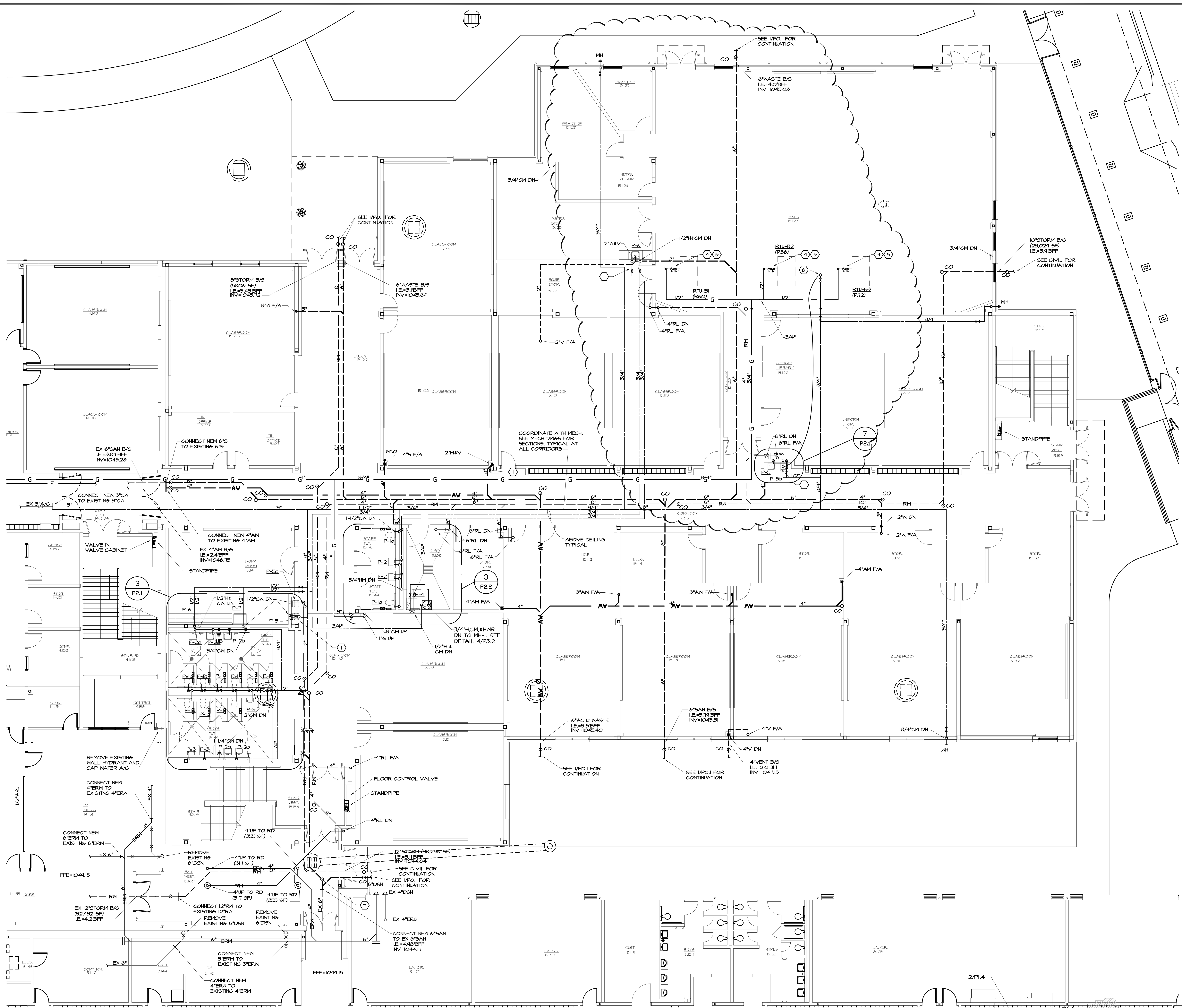
DWG. BY: J.C.F.

OK BY: M.W.D.

30324 - phone (404) 873-2152

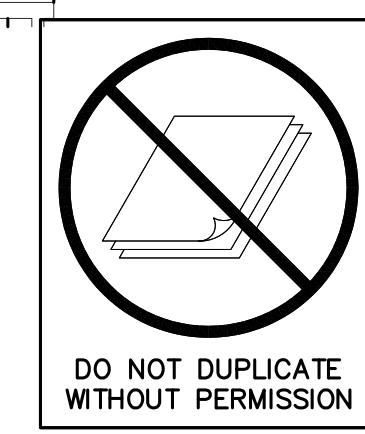
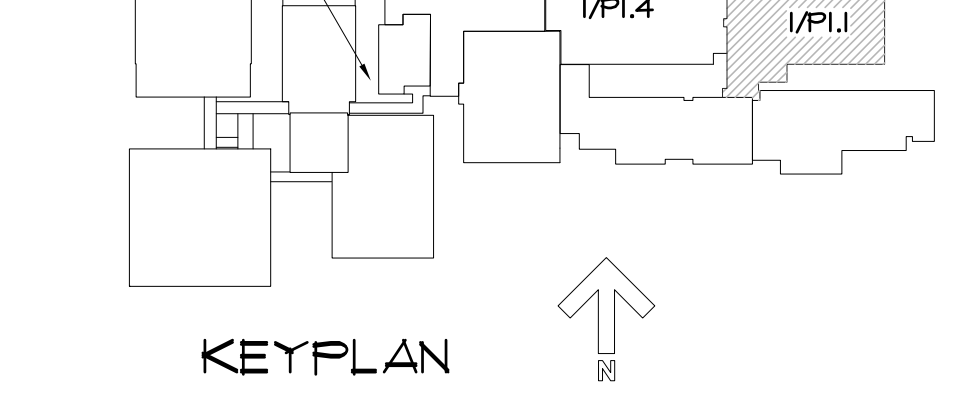
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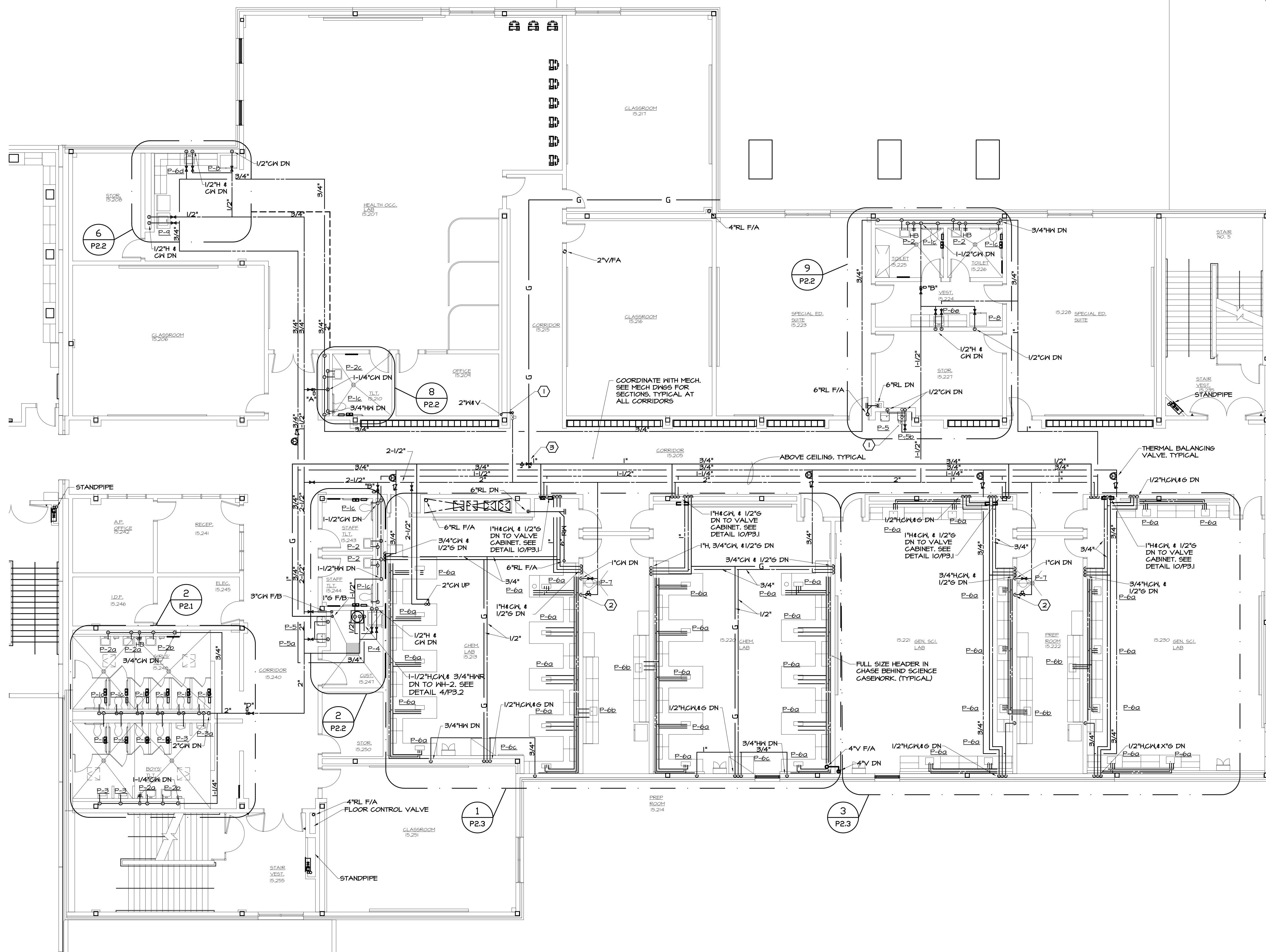
SEE SHEET P1.2 FOR PLUMBING NOTES

**① FIRST FLOOR PARTIAL PLAN - PLUMBING**  
 P1.1 1/8"=1'-0"



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 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
 P: 404.633.0245 | F: 404.633.1756  
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1 SECOND FLOOR PLAN - PLUMBING  
P1.2 1/8"=1'-0"

REFERENCED NOTES: (ALL PLUMBING SHEETS)

- CONDENSATE DRAIN WITH TRAP PRIMER ABOVE CEILING. SEE DETAIL 6/P3.1. INSTALL ON 2"x1/2" STACK IN WALL CHASE - UNLESS SHOWN OTHERWISE, EXTEND 2"V TO 3"VTR, OFFSETTING ABOVE CEILING AS REQUIRED. ORIENTATION AND TOP OF P-TRAP SHALL BE COORDINATED WITH MECHANICAL DWGS PRIOR TO INSTALLATION, TYPICAL.
- TRAP PRIMER ABOVE CEILING. SEE DETAIL 6/P3.2
- GAS PRESSURE REGULATOR- SENSUS 446 - 121 CFH @ 5 PSI INLET PRESS. TYP. OUTLET PRESS. ROUTE VENT TO EXTERIOR. VENT SHALL BE 2 SIZES LARGER THAN THE GAS PRESSURE REGULATOR VENT OUTLET.
- GAS PIPE UP THRU PIPE CURB TO MECHANICAL EQUIPMENT. SEE DETAIL 8/P3.1. SUPPORT PIPE TO STRUCTURE IMMEDIATELY PRIOR TO TURNING UP THRU CURB. TYPICAL.
- FOR GAS CONNECTION SEE DETAIL 3/P3.2
- 3/4"CN UP TO ROOF HYDRANT MOUNTED ON ROOF. CONNECT 1/2" COPPER DRAIN LINE TO 1/8" DRAIN CONNECTION AT BASE OF HYDRANT IN CEILING SPACE AND ROUTE/DRAIN TO CONDENSATE P-TRAP OUTSIDE OF BATTERY TOILET (OR AS NOTED ON DRAWING) - COORDINATE WITH HVAC DRAIN PIPING. SEE 3/P3.1.
- DROP CO. INVERT IN 1046.87, INVERT OUT 1044.20

GENERAL NOTES: (ALL PLUMBING SHEETS)

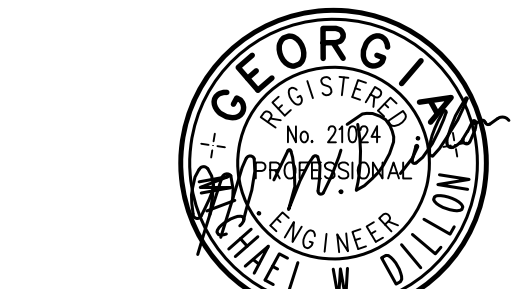
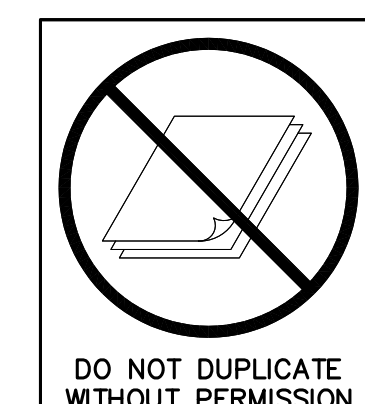
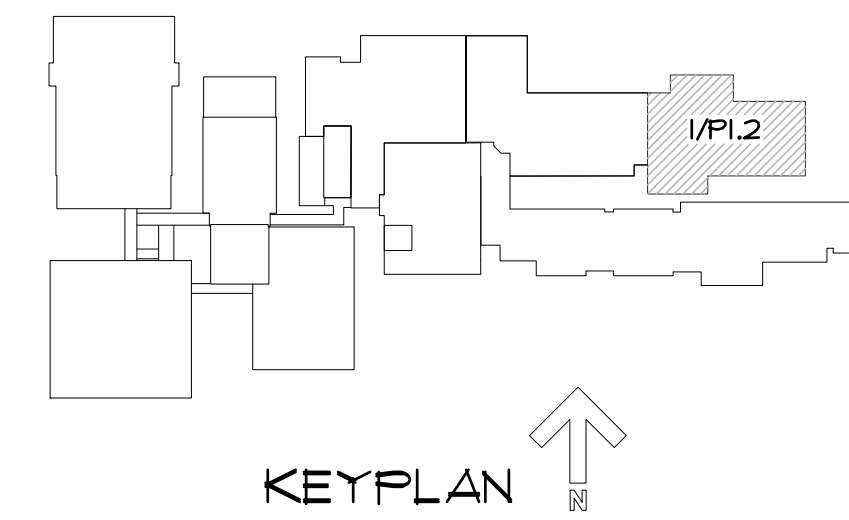
- CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF EXISTING CONDITIONS FROM THAT SHOWN ON PLANS OR OF ANY CONDITION PROHIBITING WORK TO BE INSTALLED AS SHOWN ON PLANS BEFORE WORK IS BEGUN.
- DO NOT SCALE DRAWINGS FOR LOCATIONS OF PLUMBING FIXTURES OR ROOF DRAINS, EMERGENCY ROOF DRAINS, AND FLOOR DRAINS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- VENTS THRU ROOF MUST BE LOCATED 10'-0" OR MORE FROM OUTSIDE AIR INTAKES ON HVAC SYSTEM AS PER CODE. SEE HVAC DRAWINGS FOR LOCATION OF INTAKES. PROVIDE OFFSETS IN VENTS AS NECESSARY TO MAINTAIN CLEARANCE.
- WHERE 2"VTR IS SHOWN ON PLANS, EXTEND 2"V UP TO BELOW ROOF, TRANSITION TO 3"VENT UP THRU ROOF TO ACCOMMODATE ROOF FLASHING.
- PLUMBING PIPING SHALL NOT BE INSTALLED IN HVAC SERVICE CLEARANCES. SEE MECHANICAL SHEETS FOR COORDINATION BETWEEN THE TRADES IN CORRIDORS & BUILDING SECTIONS.
- WHERE HANDICAPPED WATER CLOSETS ARE NOT CENTERED IN THE STALL, ROUGH-IN COLD WATER PIPE SO THAT FLUSH VALVE HANDLE WILL BE ON WIDE SIDE OF STALL.
- ALL EXTERIOR CLEANOUTS TO BE LOCATED EQUIDISTANT FROM FACE OF EXTERIOR WALLS.
- INSTALL VALVES IN WATER LINES ABOVE CORRIDOR CEILING SO THE VALVE HANDLES ARE ACCESSIBLE. VALVES MUST NOT BE MORE THAN 4'-0" ABOVE CEILING.
- COLD & HOT WATER PIPING DROPS IN CHASES SHALL REMAIN FULL LINE SIZE THROUGHOUT CHASE, UNLESS NOTED OTHERWISE. SEE FUTURE CONNECTION SCHEDULE FOR ALL BRANCH SUB-OUT PIPE SIZES. REFER TO TYPICAL WATER RISER DETAIL 4/P3.1.
- WHERE PIPING IS INSTALLED UNDER PERIMETER FOOTING, PIPING SHALL BE INSTALLED IN STEEL CASING. CASING SHALL EXTEND A MINIMUM OF 1'-0" BEYOND THE EDGE OF THE FOOTING.
- SEWER INVERTS SHOWN ARE REFERENCED FROM TOP OF FLOOR SLAB.
- CONFIRM INVERTS OF EXISTING SEWERS SHOWN ON THE DRAWINGS BEFORE INSTALLING ANY PIPING.
- RAINWATER PIPE SIZING IS BASED ON A 4" RAINFALL RATE. PIPING SHALL BE RUN AT 1% SLOPE, UNLESS NOTED OTHERWISE FOR INCREASED PIPE CARRY CAPACITY IN ACCORDANCE WITH THE IFG TABLES.
- THE EXISTING PLUMBING EQUIPMENT AND PIPING WAS DRAWN FROM AS-BUILT DRAWINGS. ACTUAL LOCATIONS AND SIZES MAY VARY. CONTRACTOR SHALL FIELD VERIFY SIZES AND LOCATION.
- FIELD COORDINATE ROUTING OF PIPING ON ROOF WITH HVAC CONTRACTOR AND INCLUDE ANY OFFSETS AROUND/OVER ANY ROOF STRUCTURE AND/OR OTHER OBSTRUCTIONS AS REQUIRED.
- CONTRACTOR SHALL COORDINATE ROUTING OF EXPOSED PIPING WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL EXTERIOR GAS PRESSURE REGULATORS SHALL BE INSTALLED SO THAT THE RELIEF VENT DISCHARGES DOWN VIA REGULATOR ORIENTATION OR WITH 90 DEGREE ELBOW.
- WHERE STRUCTURAL BEAMS PREVENT PIPING FROM TRANSITIONING BETWEEN FLOORS, SEE DETAIL X/PXX FOR OFFSET DETAIL.
- CONTRACTOR SHALL COORDINATE SPRINKLER HOSE VALVES, STANDPIPES, AND FLOOR CONTROL VALVE LOCATIONS IN STAIR WELLS WITH ARCHITECT PRIOR TO SUBMITTING SHOP DRAWINGS AND AGAIN PRIOR TO FIELD INSTALLATION.
- CONTRACTOR SHALL COORDINATE WATER COOLER LOCATIONS WITH ELECTRICAL PRIOR TO INSTALLATION. ELECTRICAL OUTLETS SHALL BE LOCATED WITHIN WATER COOLER CABINET, IN CUT OUT PROVIDED BY THE WATER COOLER MANUFACTURER OR CENTERED AND DIRECTLY BELOW WATER COOLER CABINET, IF REQUIRED BY ELECTRICAL INSPECTOR TO BE LOCATED OUTSIDE OF WATER COOLER CABINET.
- CONTRACTOR SHALL PREP, PRIME, AND PAINT NEW AND MODIFIED EXTERIOR GAS PIPING YELLOW.
- WATER TAPS SHALL BE INSTALLED IN ALL SCIENCE LAB PREP ROOMS FOR SCIENCE LAB DISTILLED/IONIZED WATER PRODUCTION EQUIPMENT
- PIPE CURBS SHALL BE 16" HIGH OR A MINIMUM OF 8" ABOVE THE FINISHED ROOF SURFACE

FIRE MARSHAL NOTES: (ALL PLUMBING SHEETS)

- ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE FIRE STOPPED WITH SM FIRE BARRIER OR EQUAL PRODUCT MEETING UL 1419 OR ASTM E814 FIRE RATINGS IN ACCORDANCE WITH ARTICLE 900-2 OF THE NATIONAL ELECTRICAL CODE. SEE ARCHITECTURAL FOR DETAILS.
- SEE MECH DWGS FOR PORTIONS OF THE BUILDING WITH RETURN AIR PLENUMS. ALL MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- A COMPLETE SET OF SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO THE COUNTY FIRE MARSHAL'S OFFICE, APPROVED, AND A PERMIT OBTAINED BEFORE ANY SPRINKLER WORK IS INSTALLED.
- CONTRACTOR TO OBTAIN COUNTY FIRE MARSHAL APPROVAL BEFORE MAKING MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM. THIS MAY REQUIRE SPRINKLER SHOP DRAWINGS TO BE SUBMITTED. A PERMIT MUST BE OBTAINED BEFORE ANY SPRINKLER WORK IS INSTALLED.

RENOVATION NOTES: (ALL PLUMBING SHEETS)

- WHEN WORKING ABOVE EXISTING LAY-IN CEILINGS TO REMAIN, REMOVE AND REPLACE CEILING TILES CAREFULLY. THE CONTRACTOR SHALL REPLACE ANY TILES THAT ARE BROKEN DURING CONSTRUCTION.
- ANY CHANGE TO THE WATER, SEWER OR GAS SYSTEM SHALL BE MADE AT A TIME THAT DOES NOT INTERFERE WITH THE OPERATION OF THE BUILDING.
- CONFIRM INVERTS OF EXISTING SEWERS SHOWN ON THE DRAWINGS BEFORE INSTALLING ANY PIPING.
- ALL PIPING RENDERED USELESS, DUE TO NEW CONSTRUCTION, SHALL BE CONSIDERED "ABANDONED". ABANDONED PIPING BELOW CEILING SHALL BE CAPPED WITHIN THE WALL CAVITY OR BELOW FINISHED SLAB, UNLESS NOTED OTHERWISE. ABANDONED PIPING ABOVE CEILING SHALL BE CAPPED AT THE FACE OF THE WALL, UNLESS NOTED OTHERWISE. WHERE ABANDONED BELOW SLAB PIPING CONFLICTS WITH THE INSTALLATION OF NEW BELOW SLAB PIPING THE CONTRACTOR SHALL REMOVE A SECTION OF THE ABANDONED PIPING AND CAP BOTH ENDS OF THE ABANDONED PIPING. ALL ABANDONED PIPING ABOVE CEILING OR EXPOSED SHALL BE REMOVED.
- IN ALL AREAS INCLUDED IN OVERALL PROJECT CONTRACTOR SHALL REPLACE MISSING OR DAMAGED ESCUTCHEON PLATES.
- IN AREAS WHERE SPRINKLER HEADS LOCATIONS ARE REMAINING AND CEILING TILES ARE BEING REPLACED CONTRACTOR SHALL FIELD VERIFY ONE PIECE AND TWO PIECE ESCUTCHEON/SPRINKLER HEAD ASSEMBLY COUNTS FOR ESCUTCHEON PLATE REINSTALLATION PRICING.
- REMOVE HANGERS AND STRAPS WHERE PLUMBING EQUIPMENT AND/OR PIPING IS SHOWN TO BE REMOVED.
- WHERE ITEMS ARE SAID TO BE REMOVED, THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF THE ITEMS IN ACCORDANCE WITH ALL LOCALS CODES, ORDINANCES AND LAWS.
- WHERE EXISTING EQUIPMENT, PIPE, ETC. IS BEING REMOVED AND NOT REPLACED IN SAME LOCATION, REMOVE ALL EXISTING SUPPORT HARDWARE, BRACKETS, STRAPS, ETC.

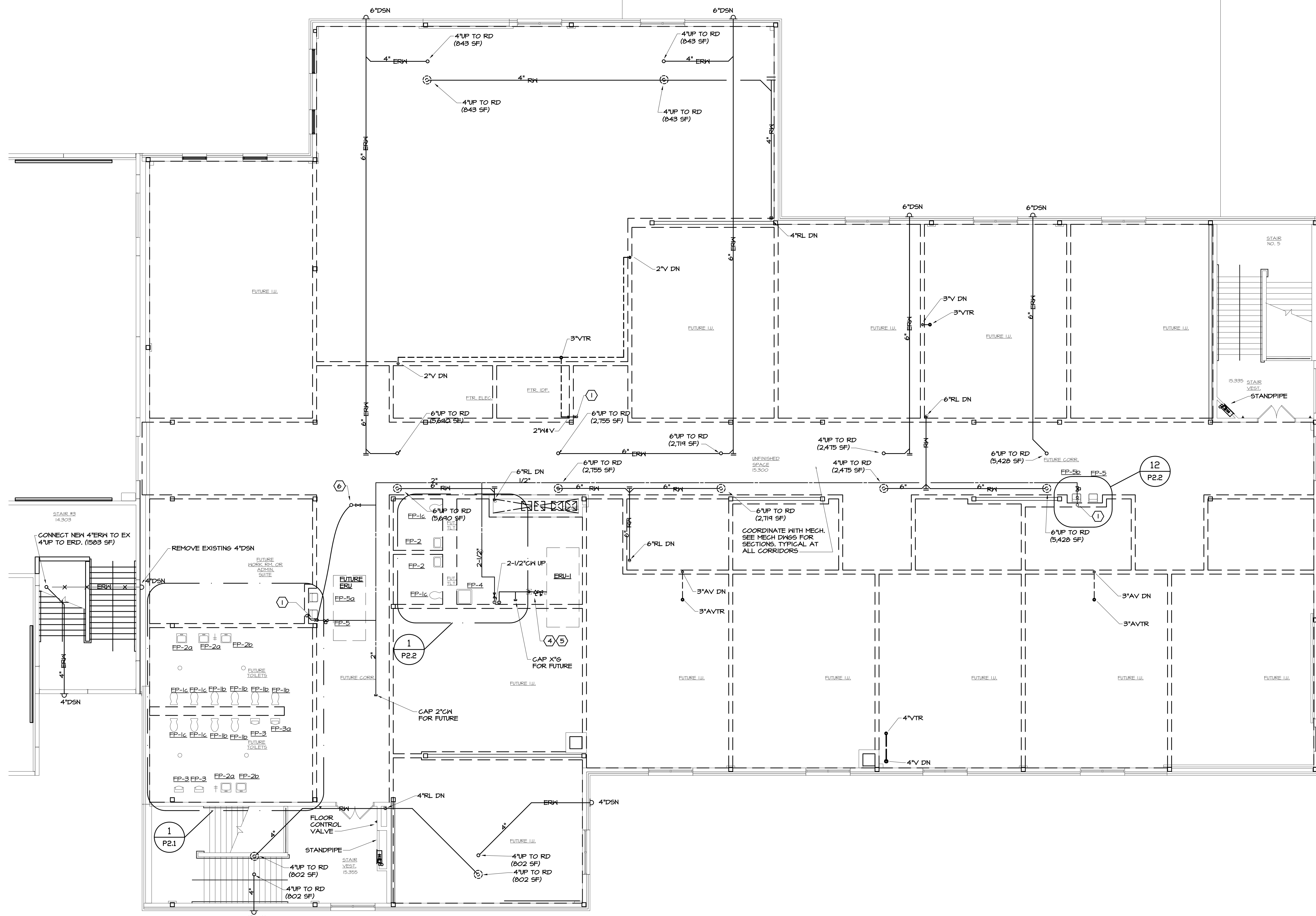


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consulting engineers  
2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
P: 404.633.0245 | F: 404.633.1756  
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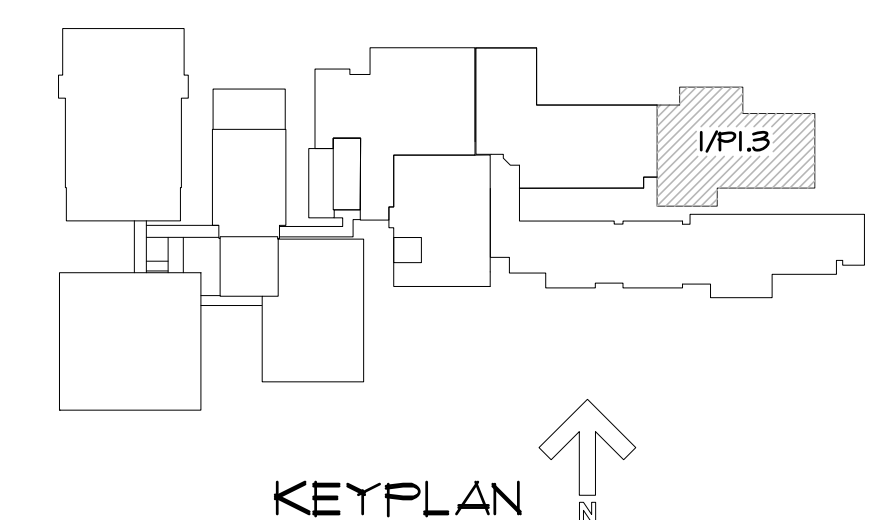
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 NORTH GWINNETT HIGH SCHOOL EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 FACILITY CODE 667-4556  
 JOB NO. SHL-DO-17  
 DATE: MARCH 1, 2021  
 OK BY: J.C.F.  
 M.W.D.



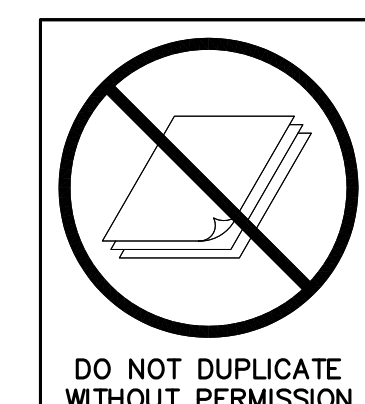
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1/20/2021	ISSUE FOR BID	
1/26/22	CONFORMED SET	



1 THIRD FLOOR PLAN - PLUMBING  
 P1.3 1/8"=1'-0"



SEE SHEET P1.2 FOR PLUMBING NOTES



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 consulting engineers  
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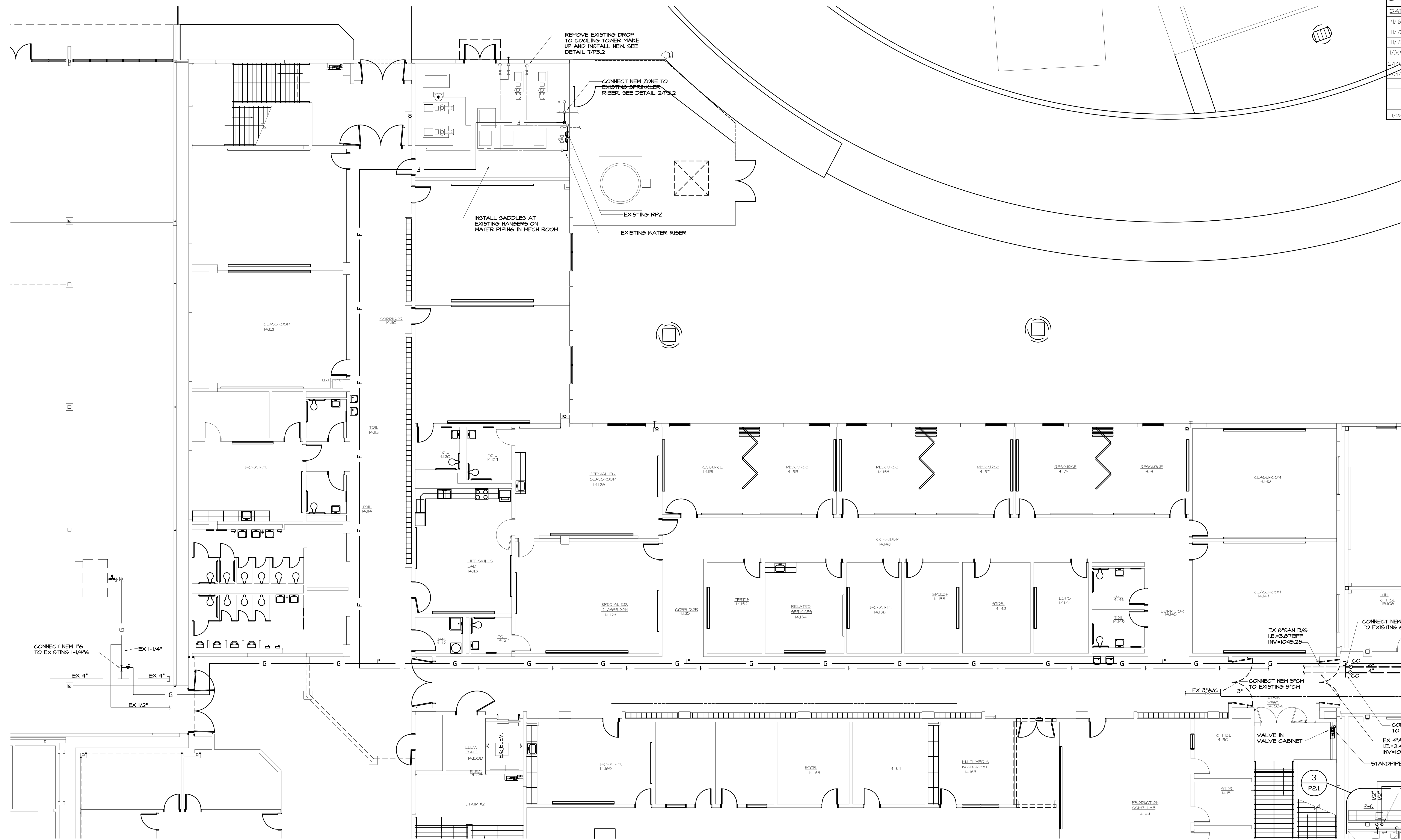
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 OK. BY: M.W.D.

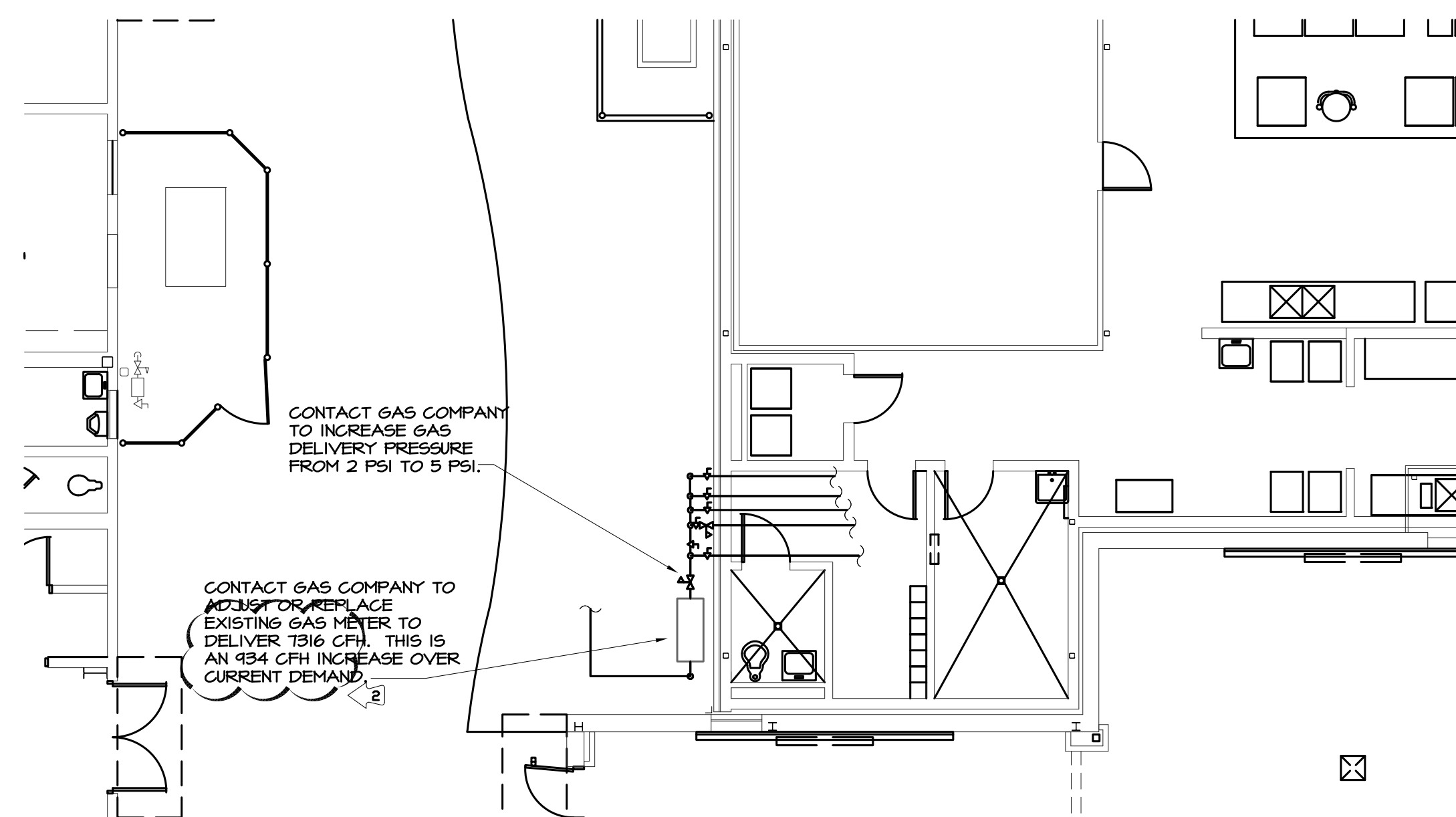
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**P1.3**

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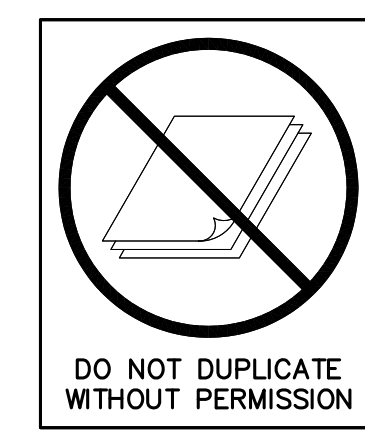
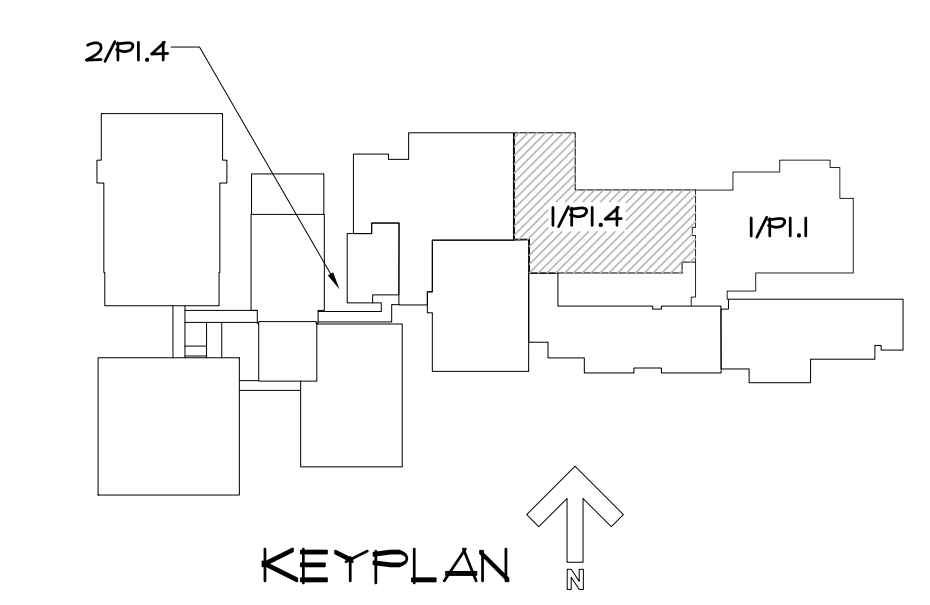


1 FIRST FLOOR PARTIAL PLAN - PLUMBING  
PL.4 1/8"=1'-0"



2 FIRST FLOOR PARTIAL PLAN - PLUMBING  
PL.4 1/8"=1'-0"

SEE SHEET PL.2 FOR PLUMBING NOTES



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consulting engineers  
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**P1.4**

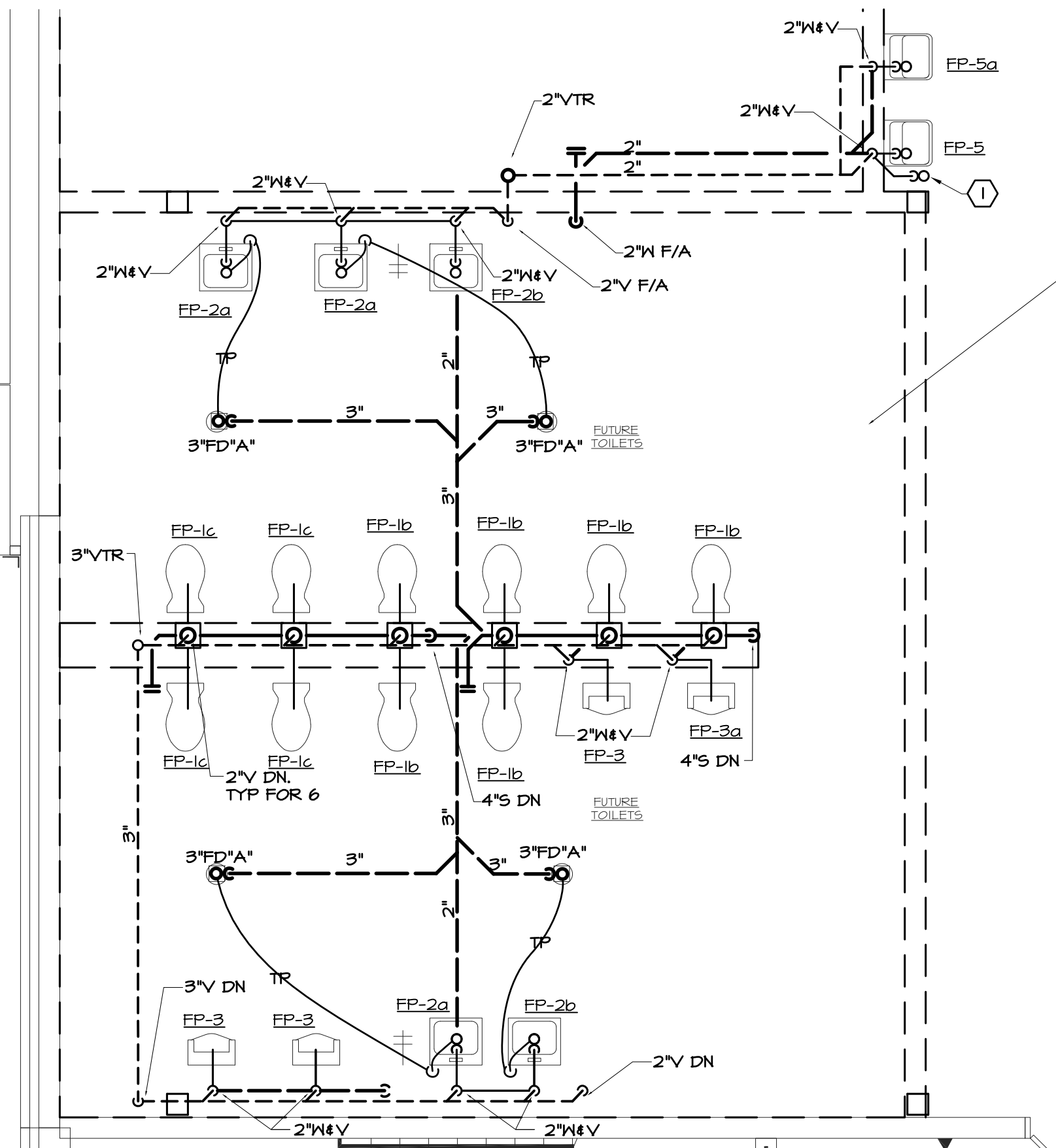
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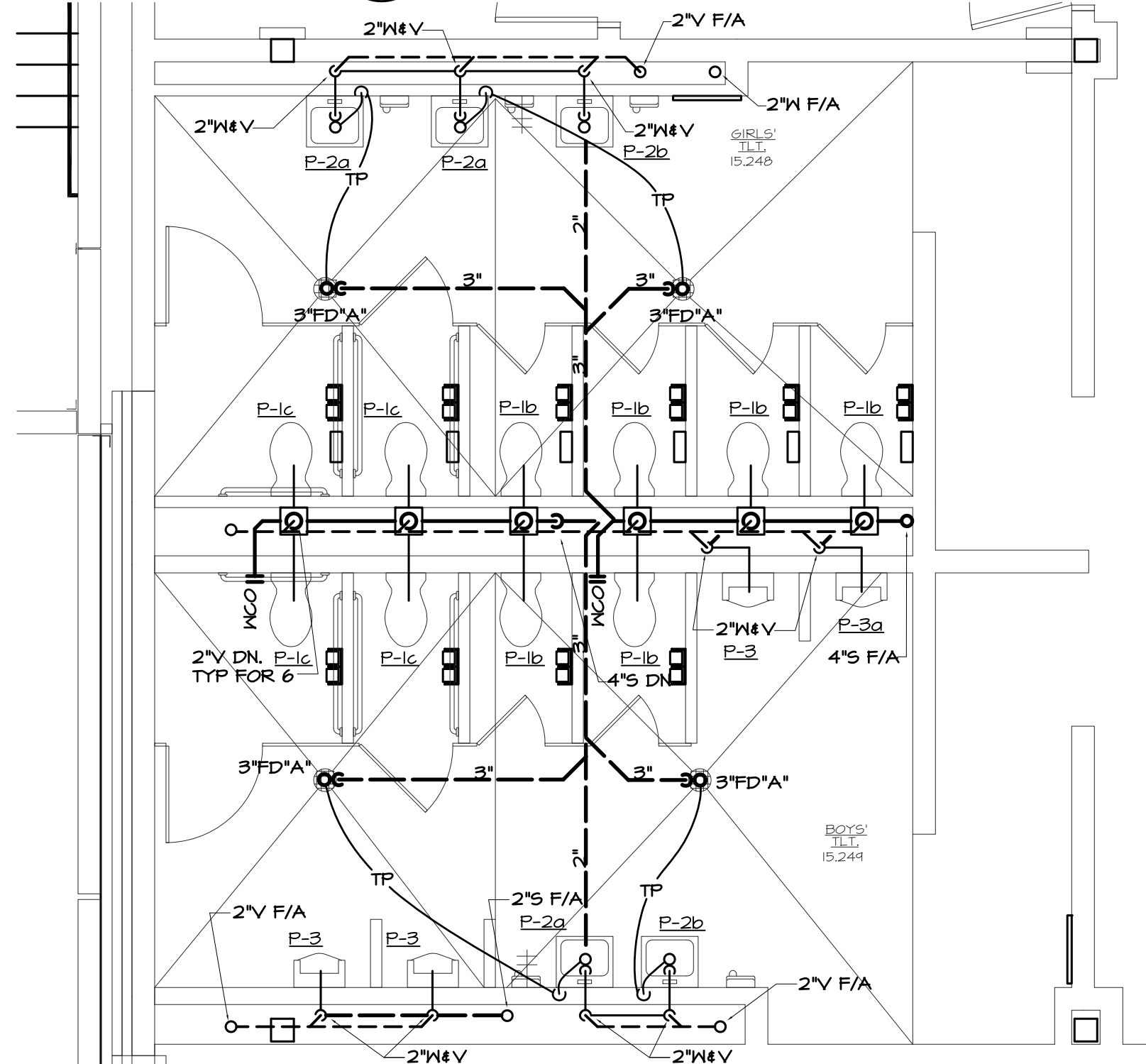
**NORTH GWINNETT HIGH SCHOOL**  
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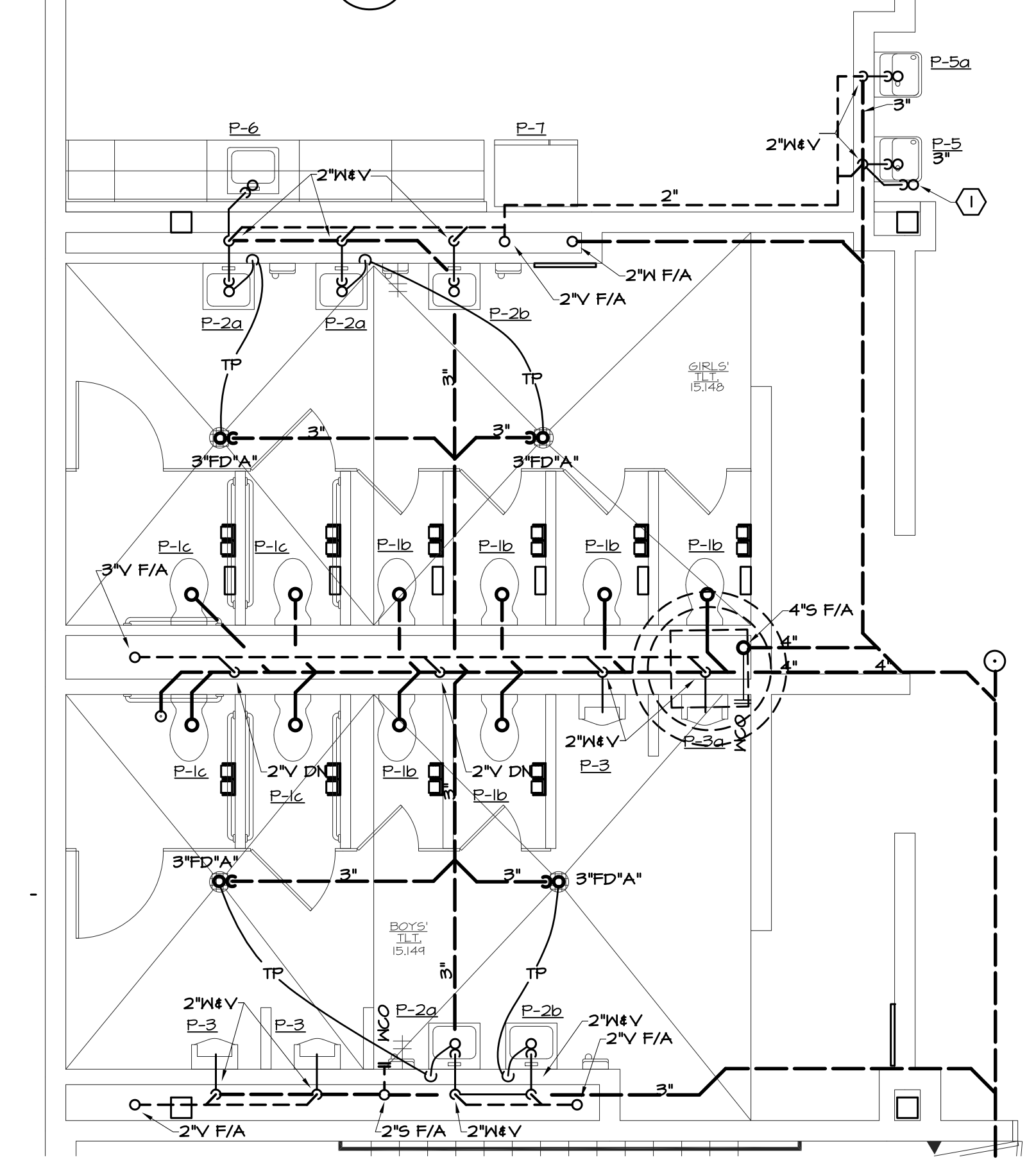
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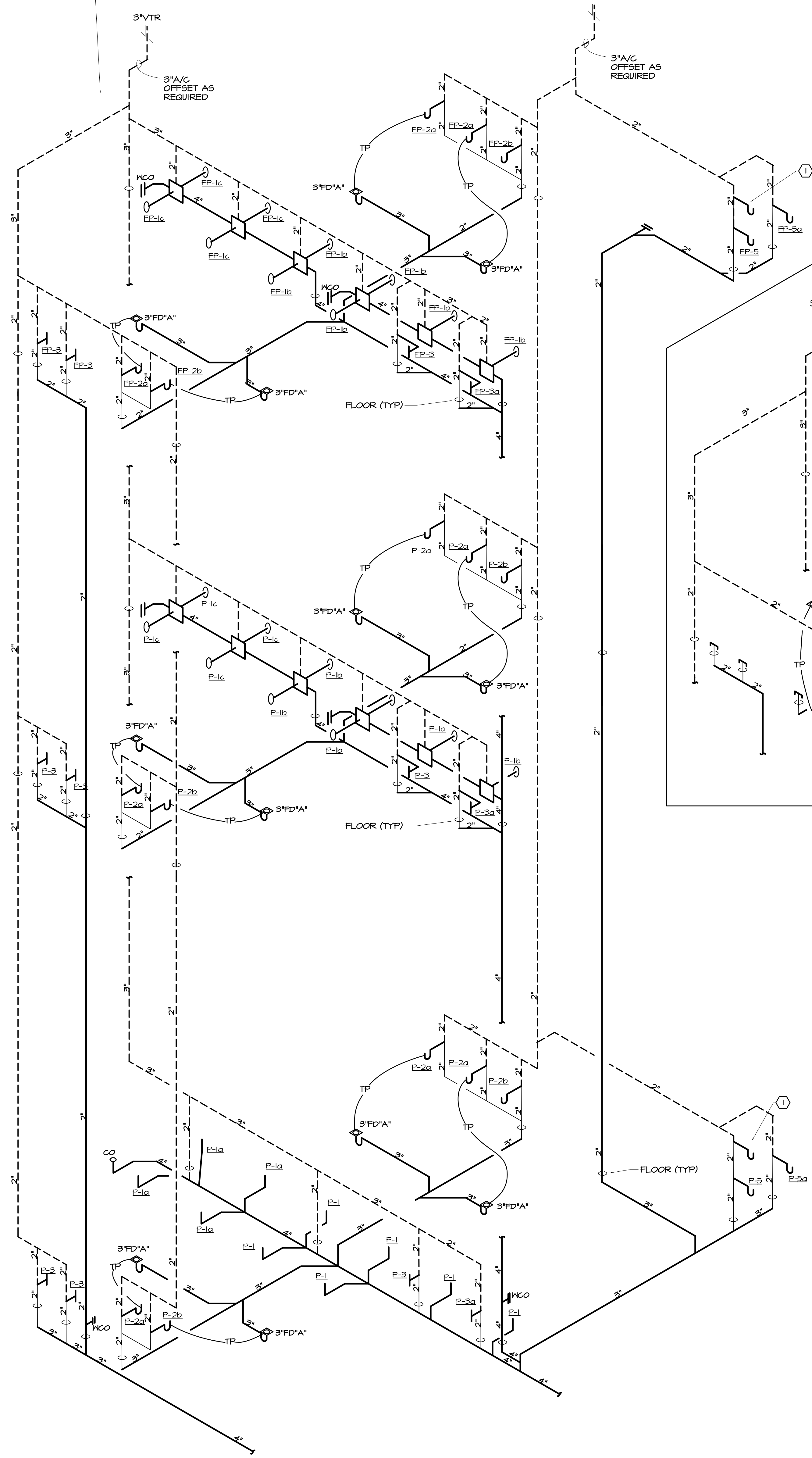


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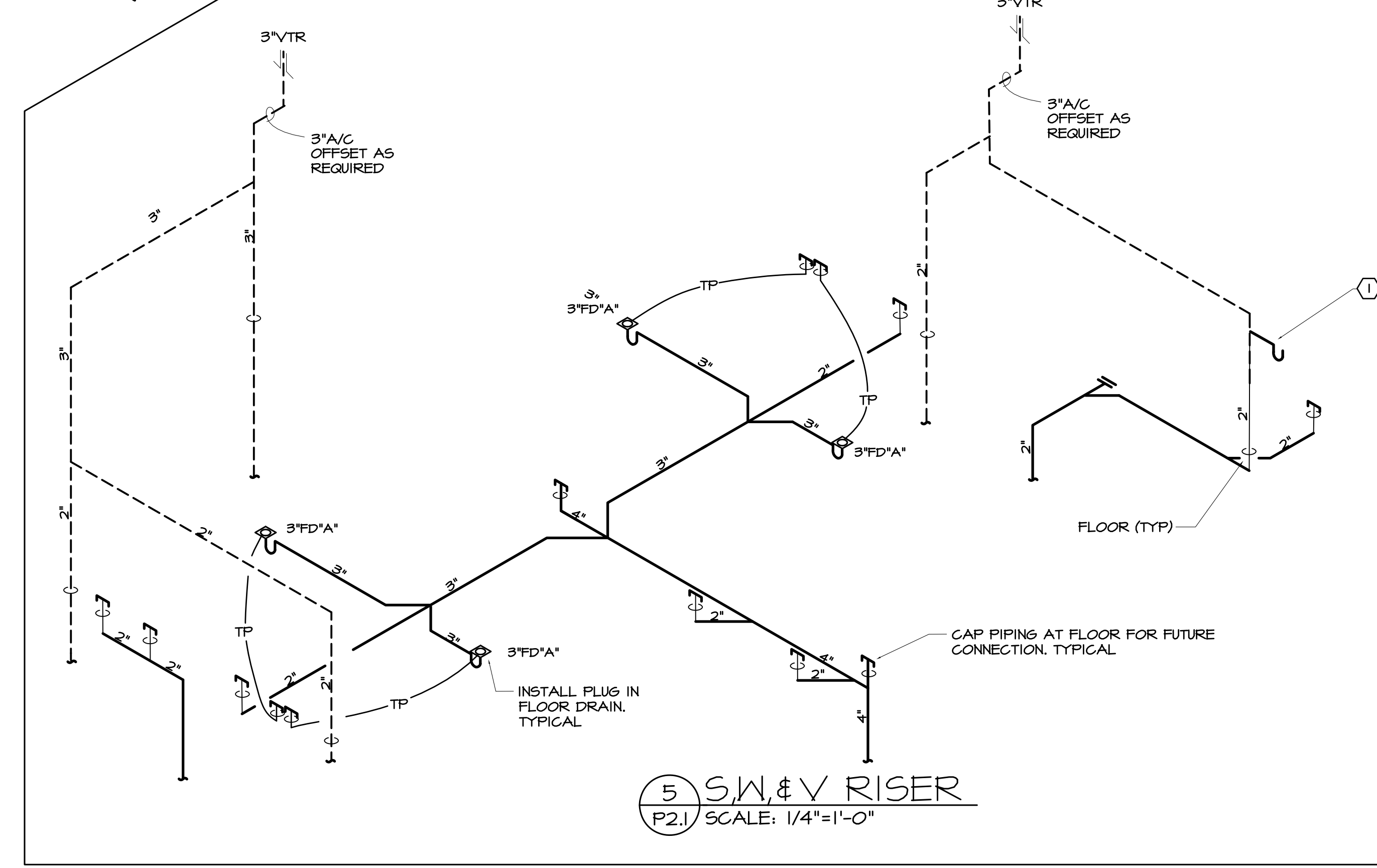


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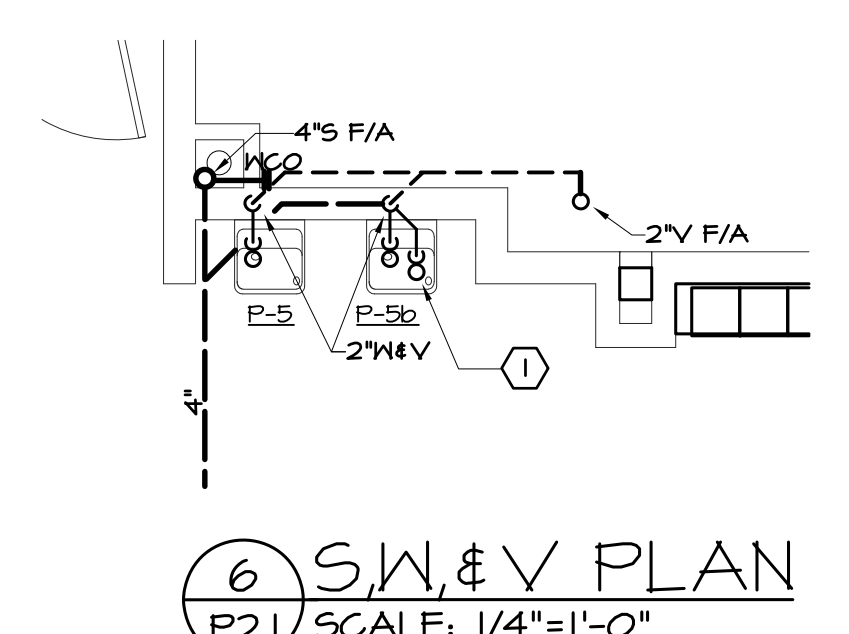
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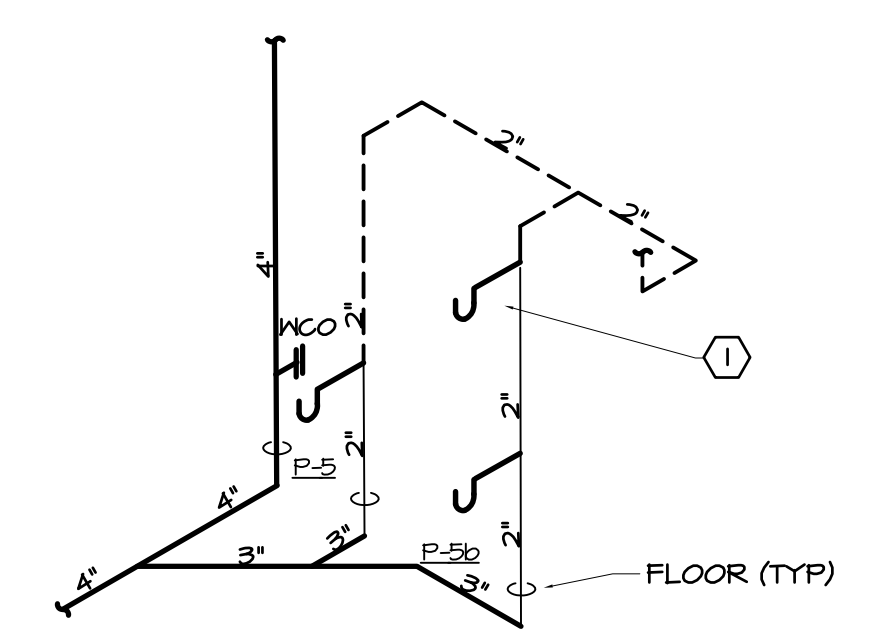
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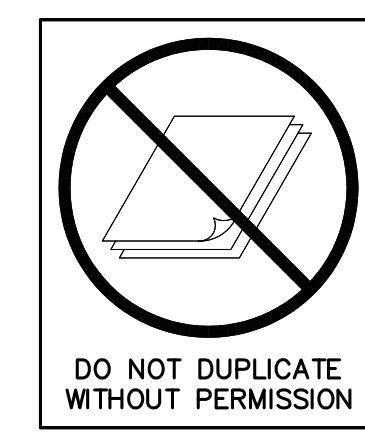
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6 SW&V PLAN  
 P2.1 SCALE: 1/4"=1'-0"



7 SW&V RISER  
 P2.1 SCALE: 1/4"=1'-0"



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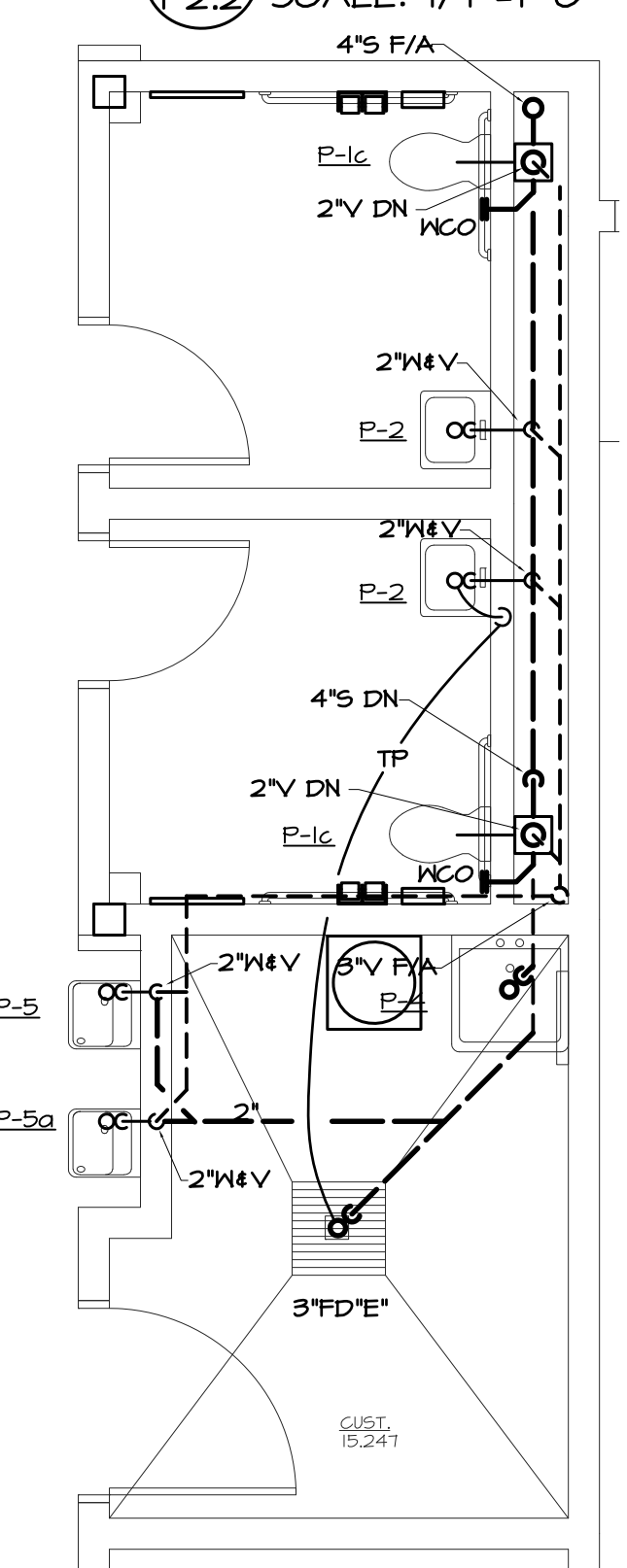
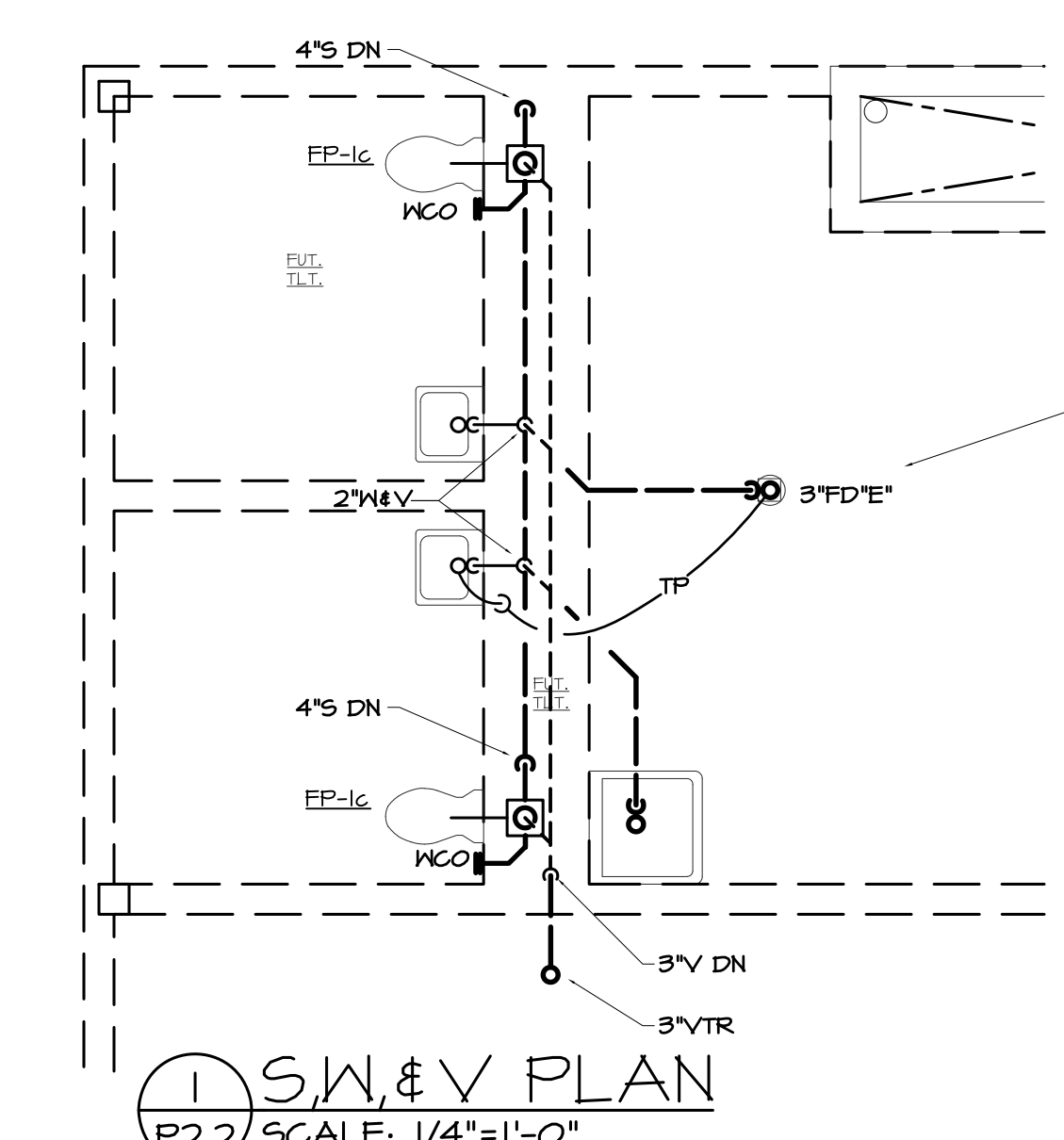
**NORTH GWINNETT HIGH SCHOOL**  
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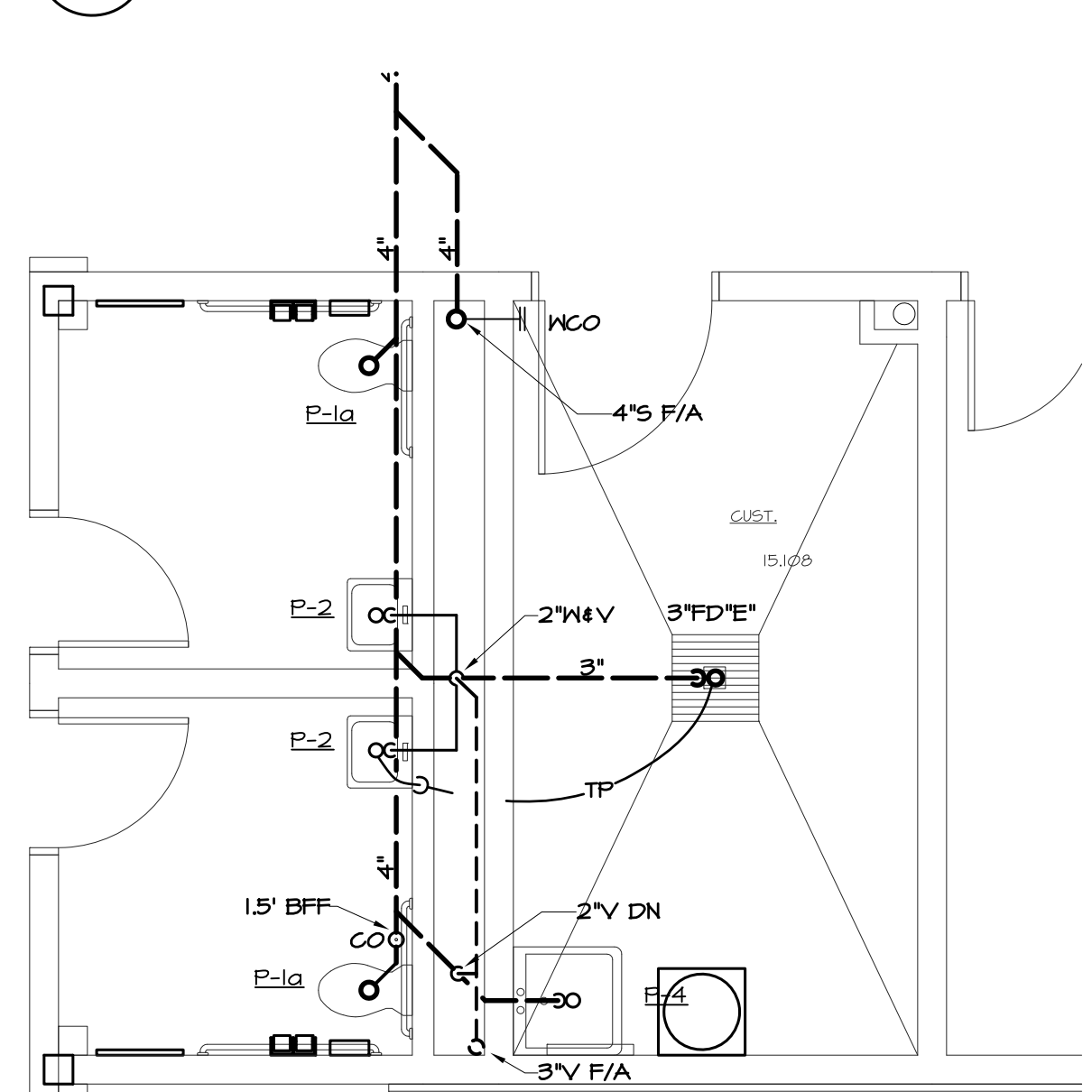
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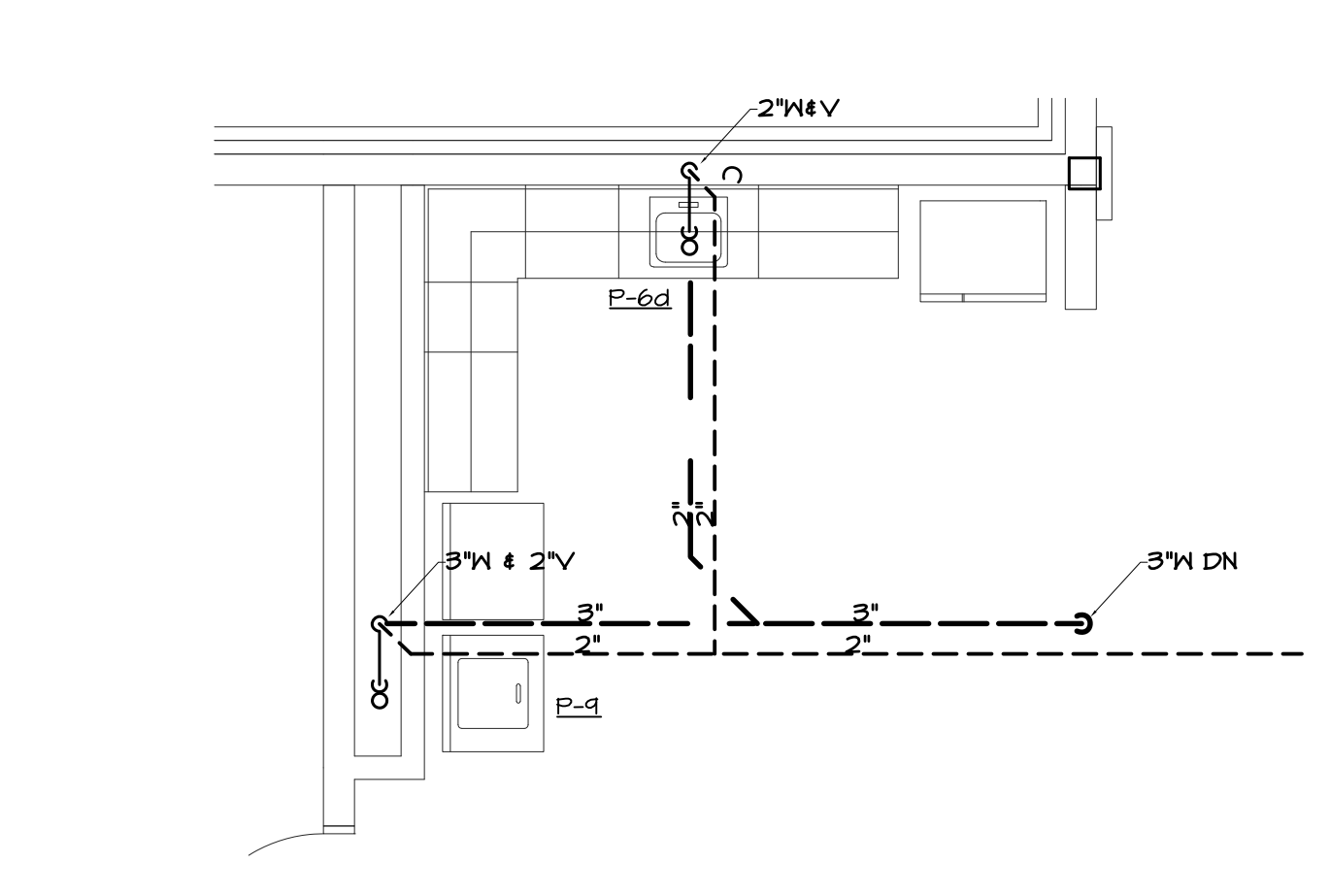
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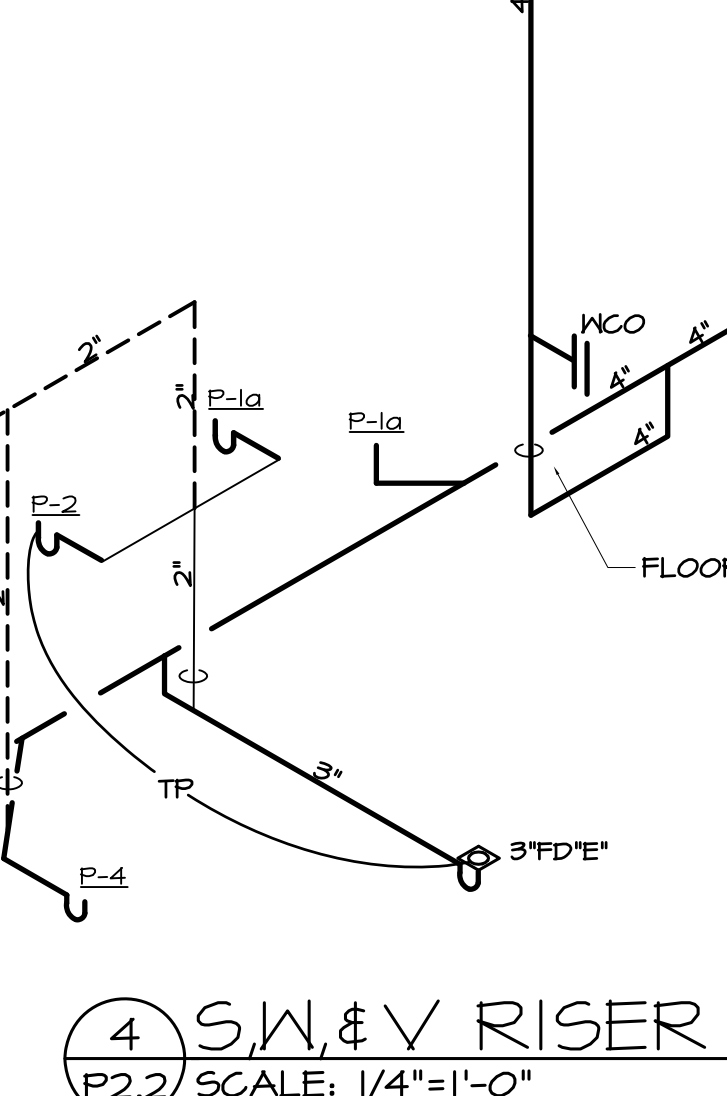
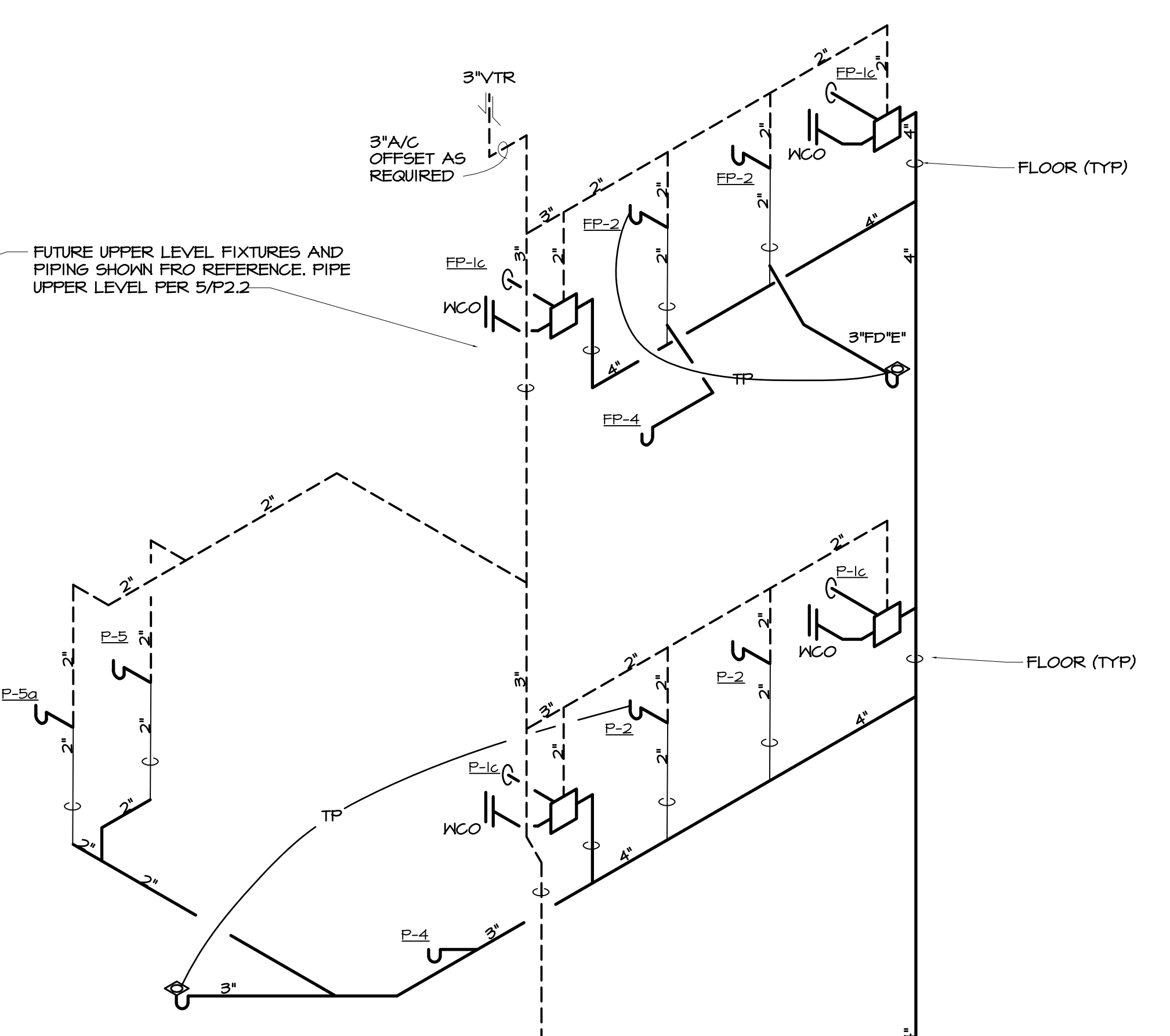
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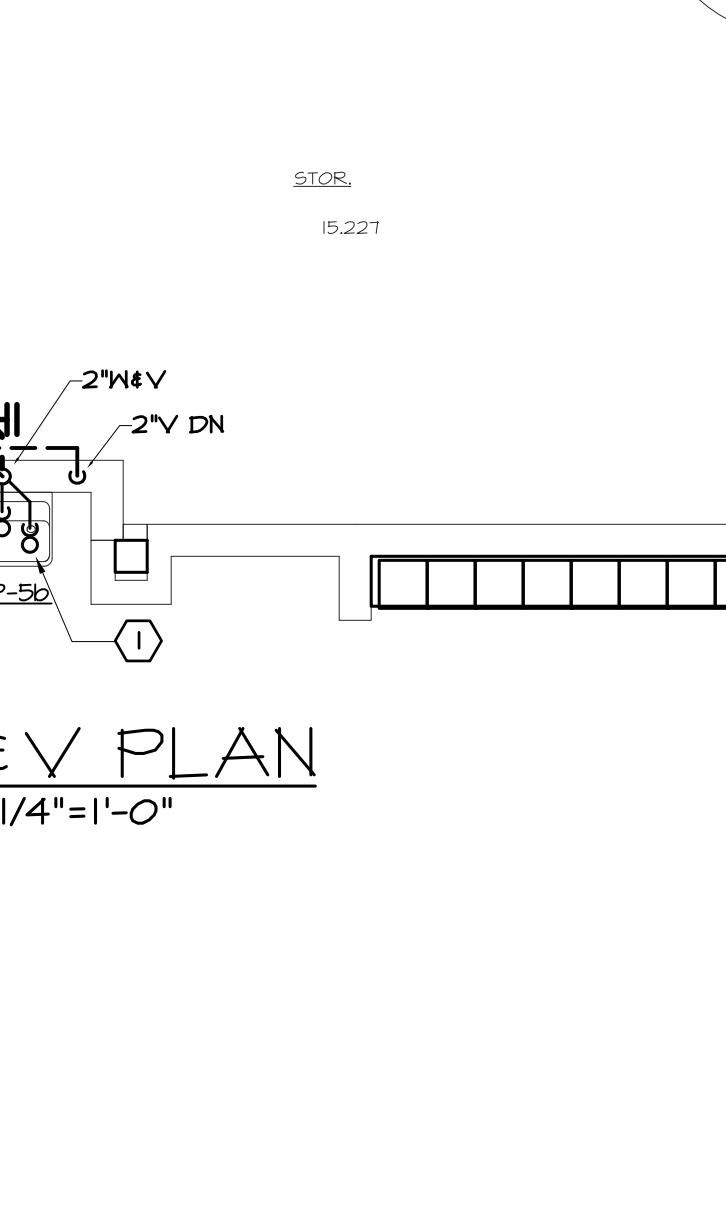
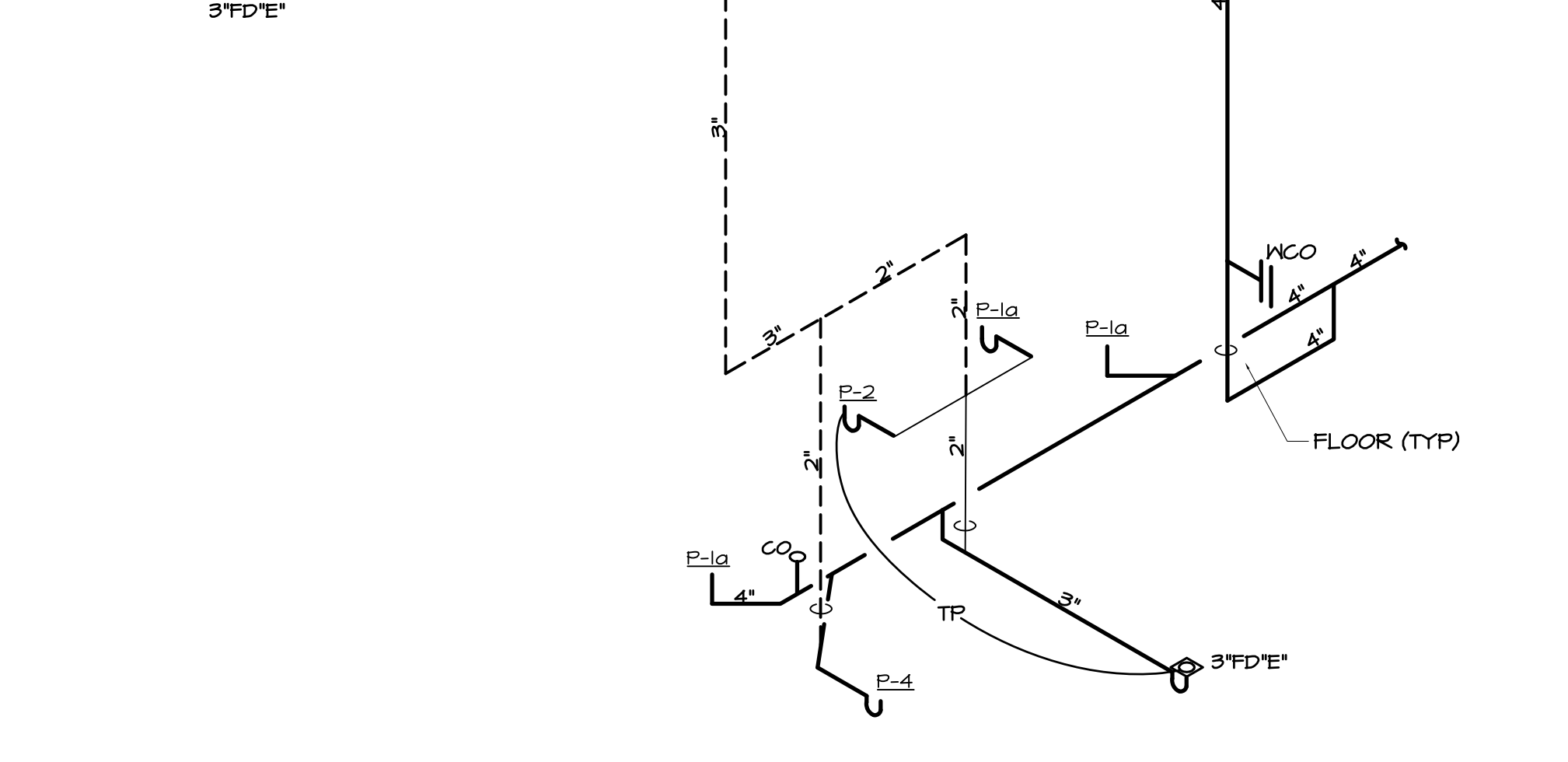
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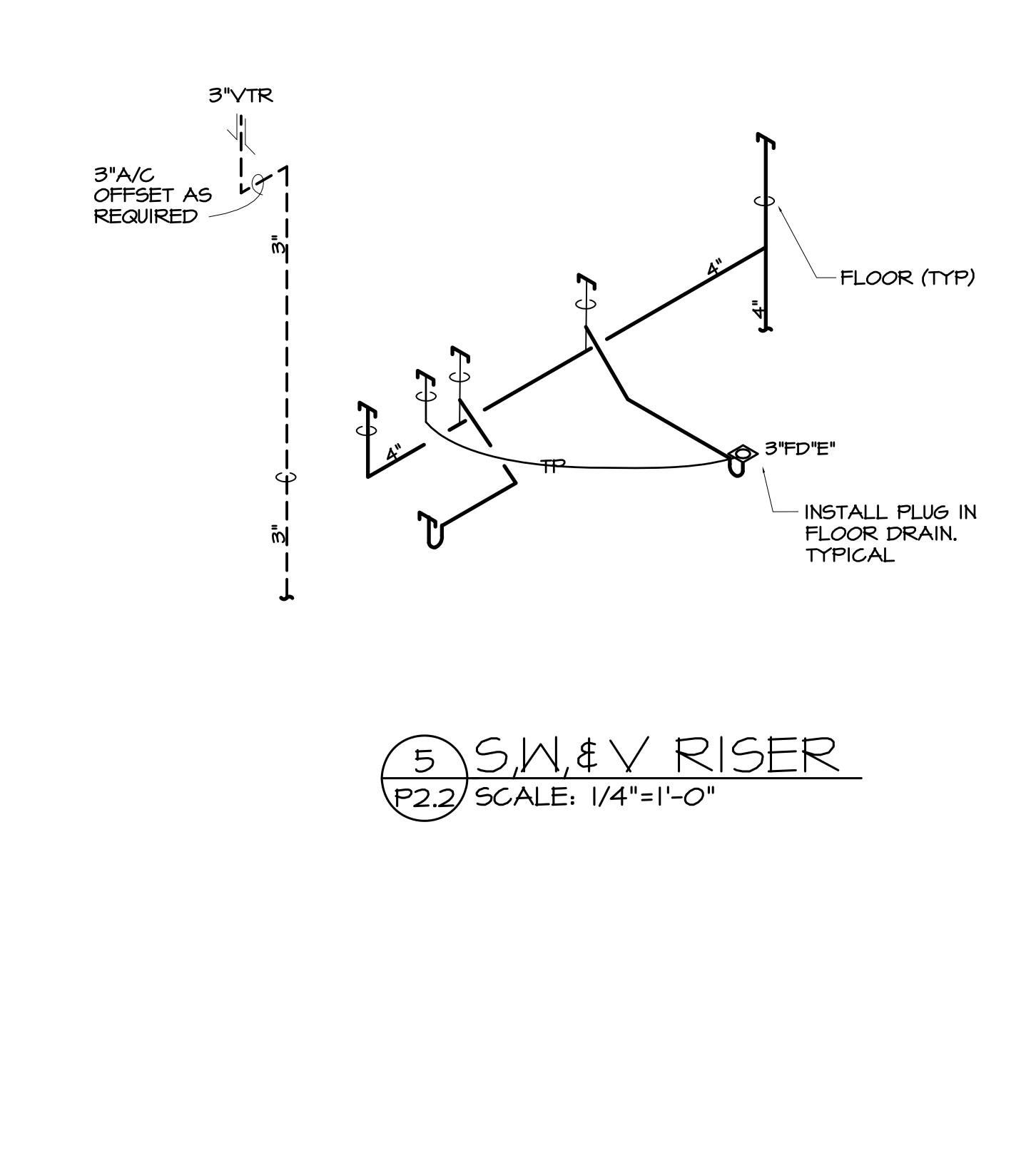
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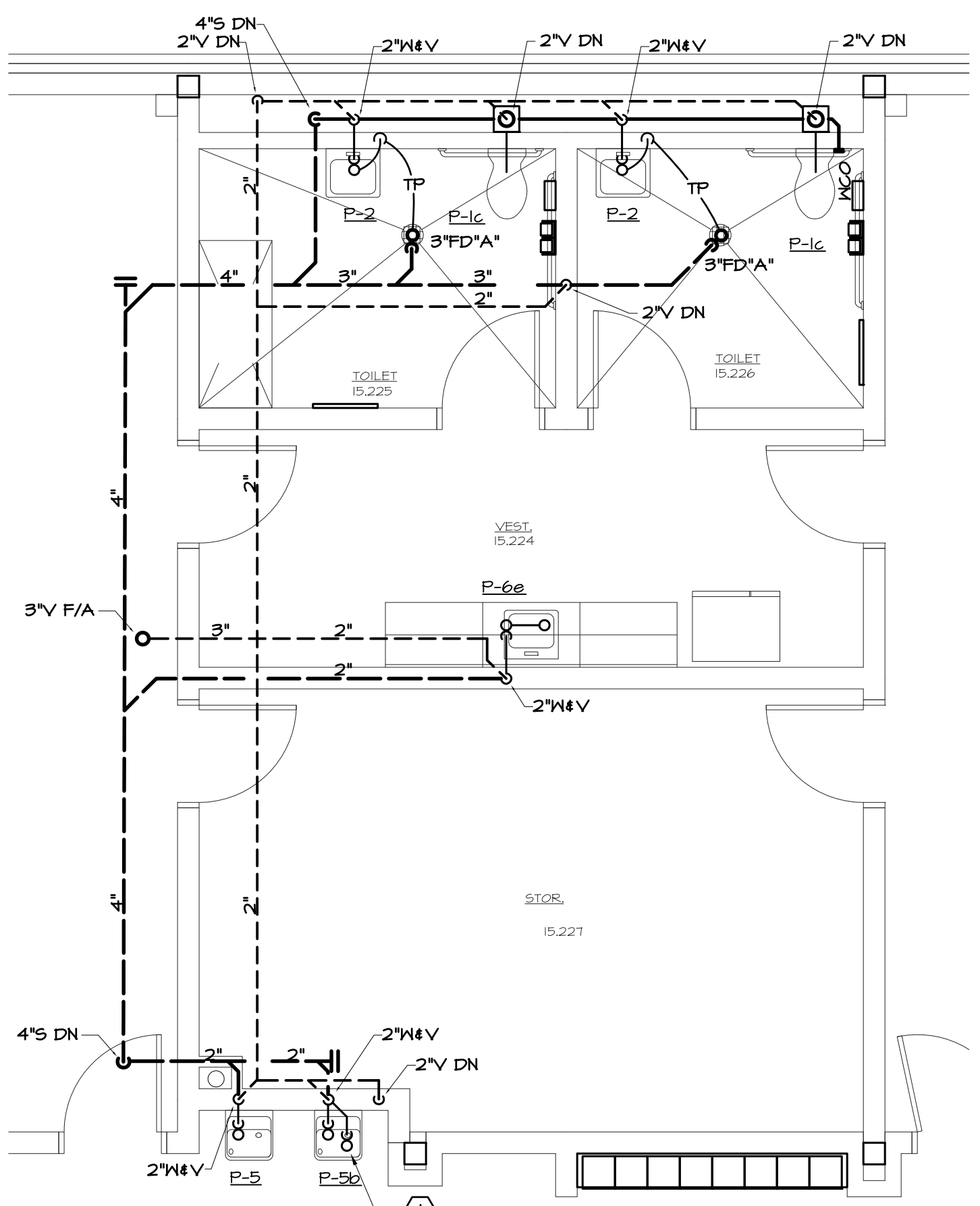
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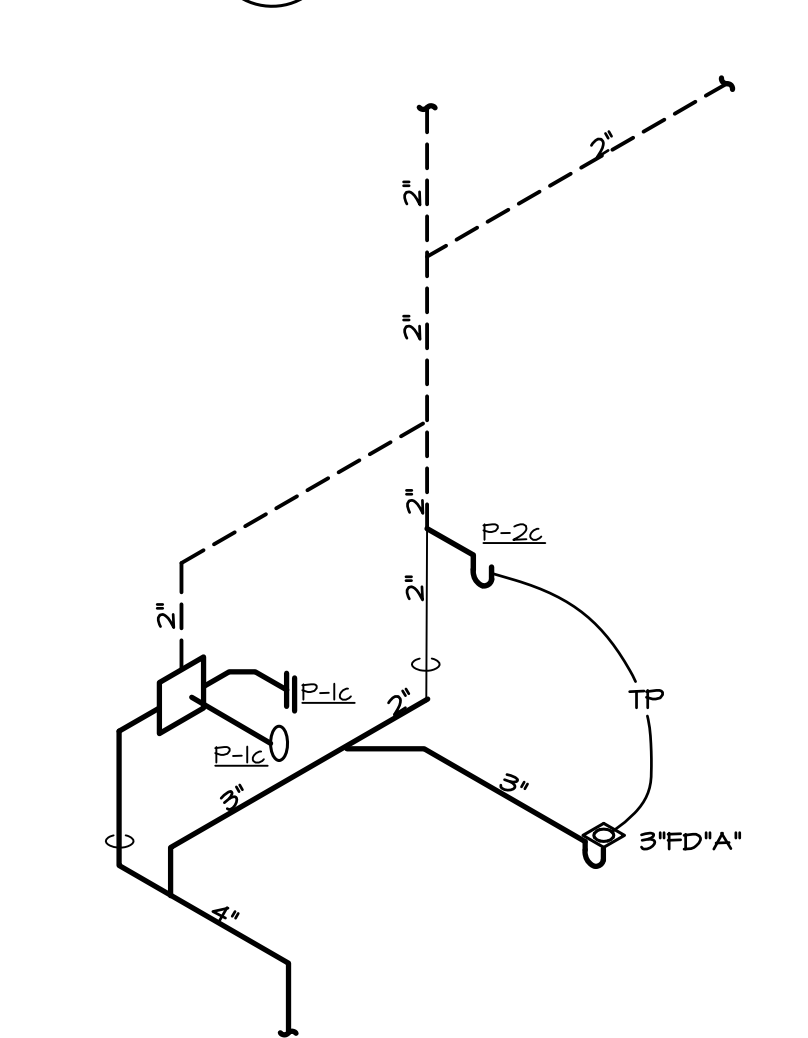
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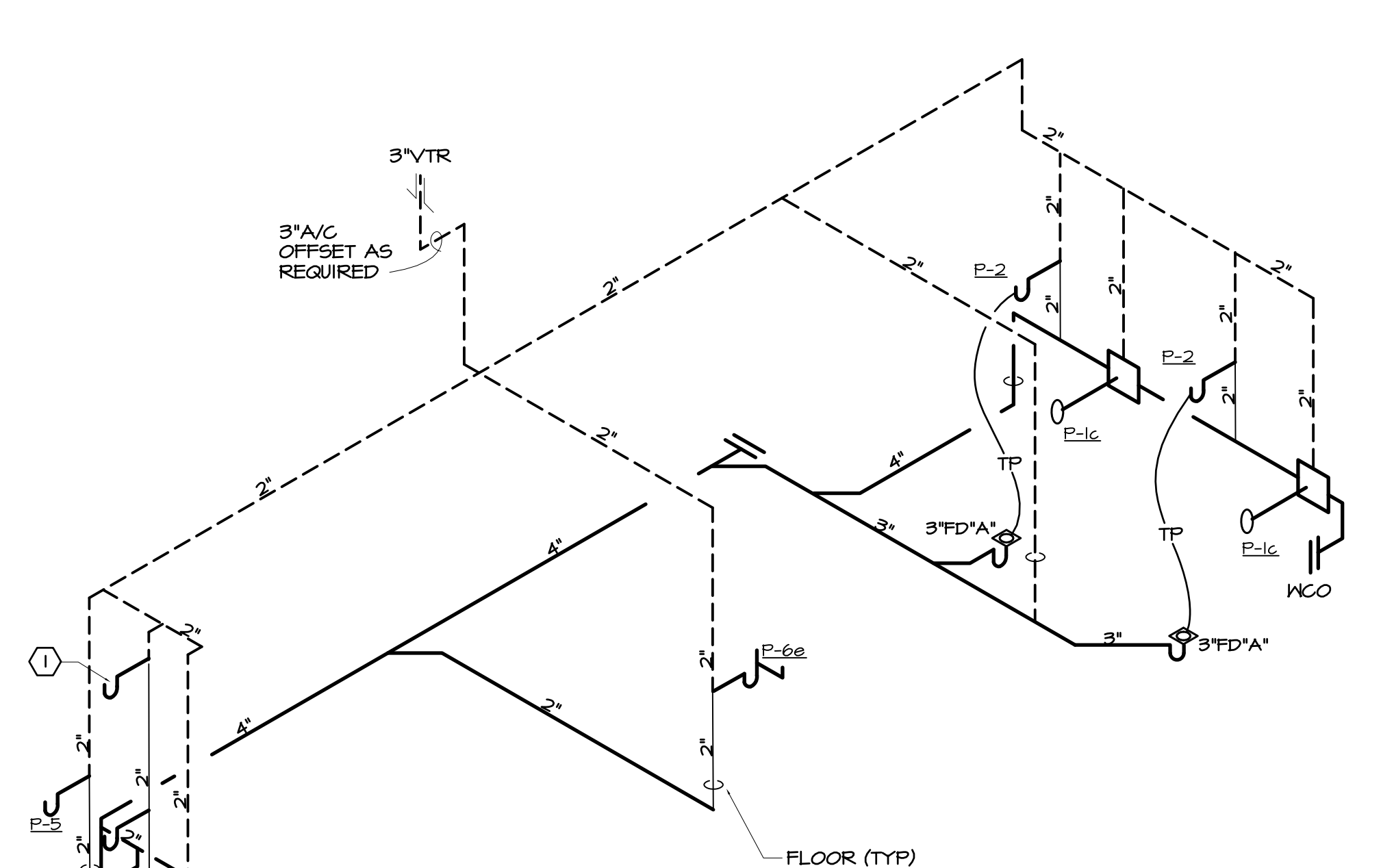
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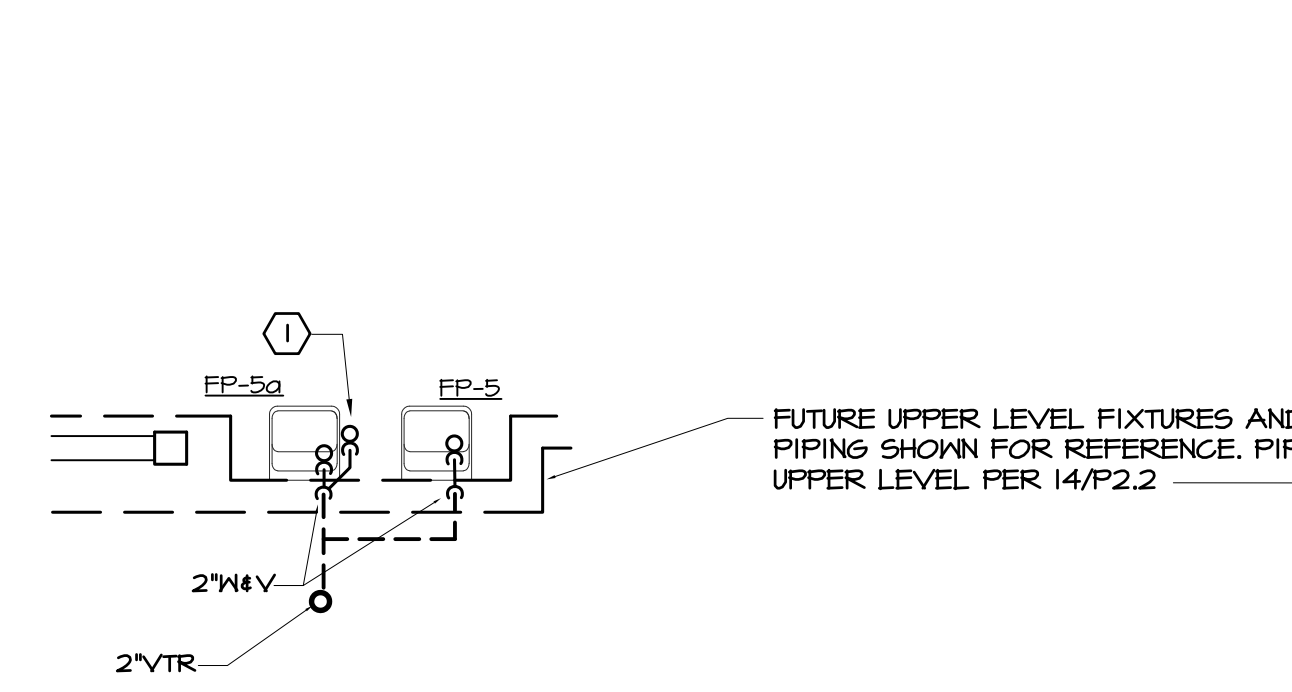
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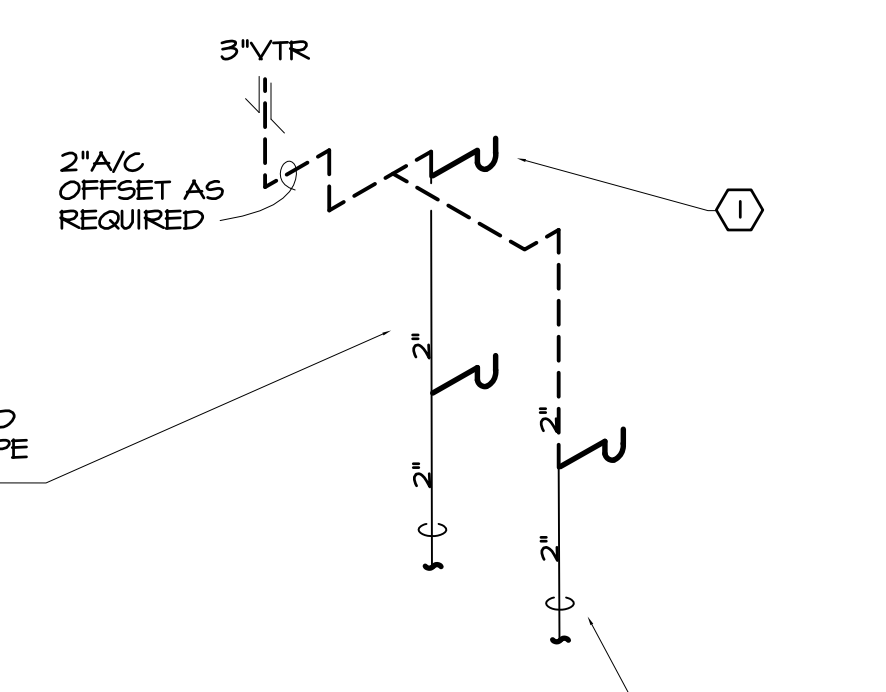
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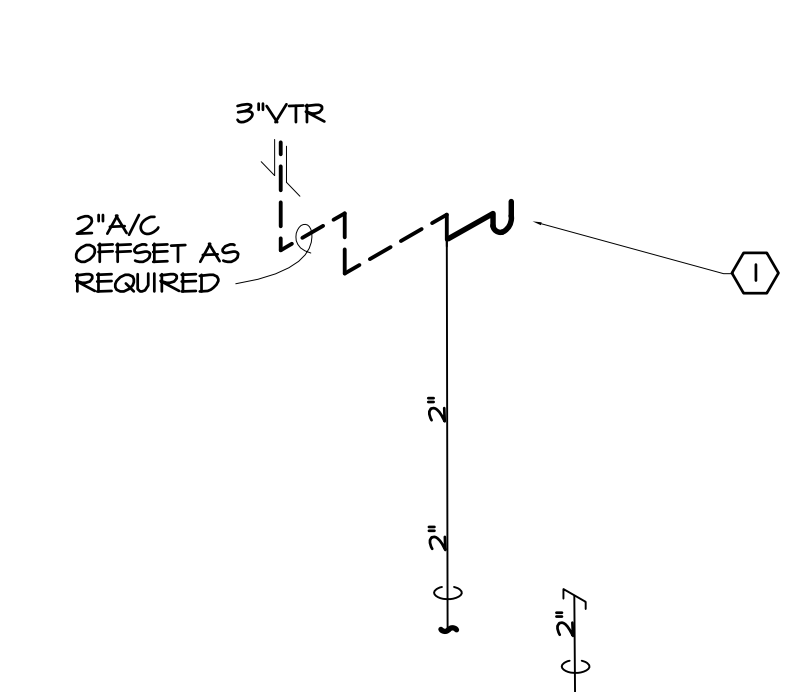
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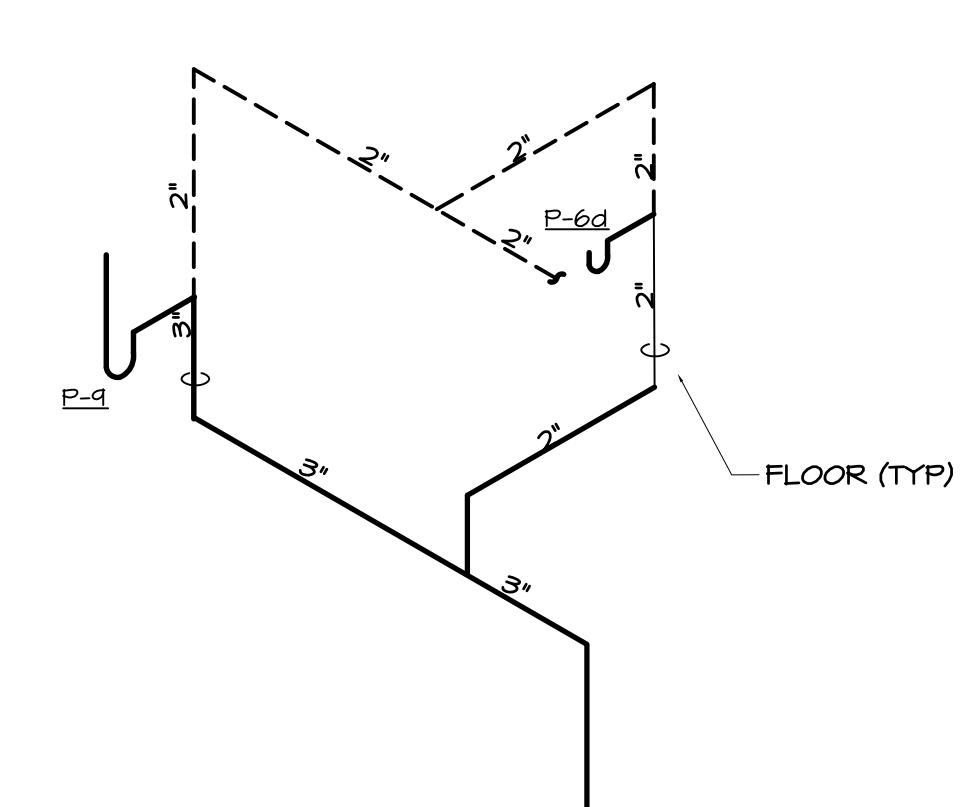
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13 SW, & V RISER  
P2.2 SCALE: 1/4"=1'-0"



14 SW, & V RISER  
P2.2 SCALE: 1/4"=1'-0"



7 SW, & V RISER  
P2.2 SCALE: 1/4"=1'-0"



**SPURLOCK & ASSOCIATES, INC.**  
 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
 P: 404.633.0245 | F: 404.633.1756  
 SA JOB NO. 212



DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
1/11/2021	BLDG. PERMIT SET	
1/11/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
2/10/2022	APPENDUM #1	
1/28/22	CONFORMED SET	

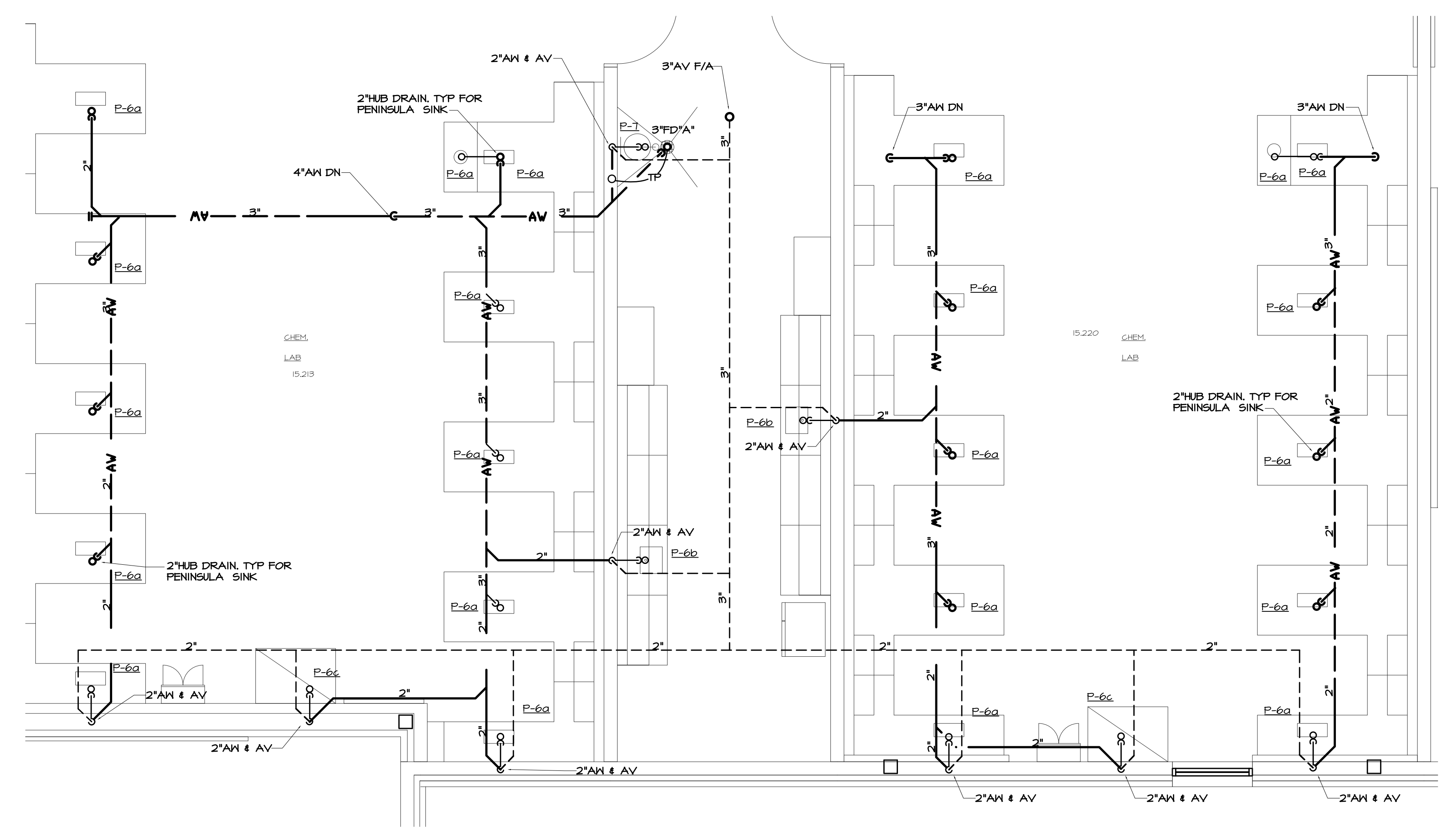
FACILITY CODE 66T-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

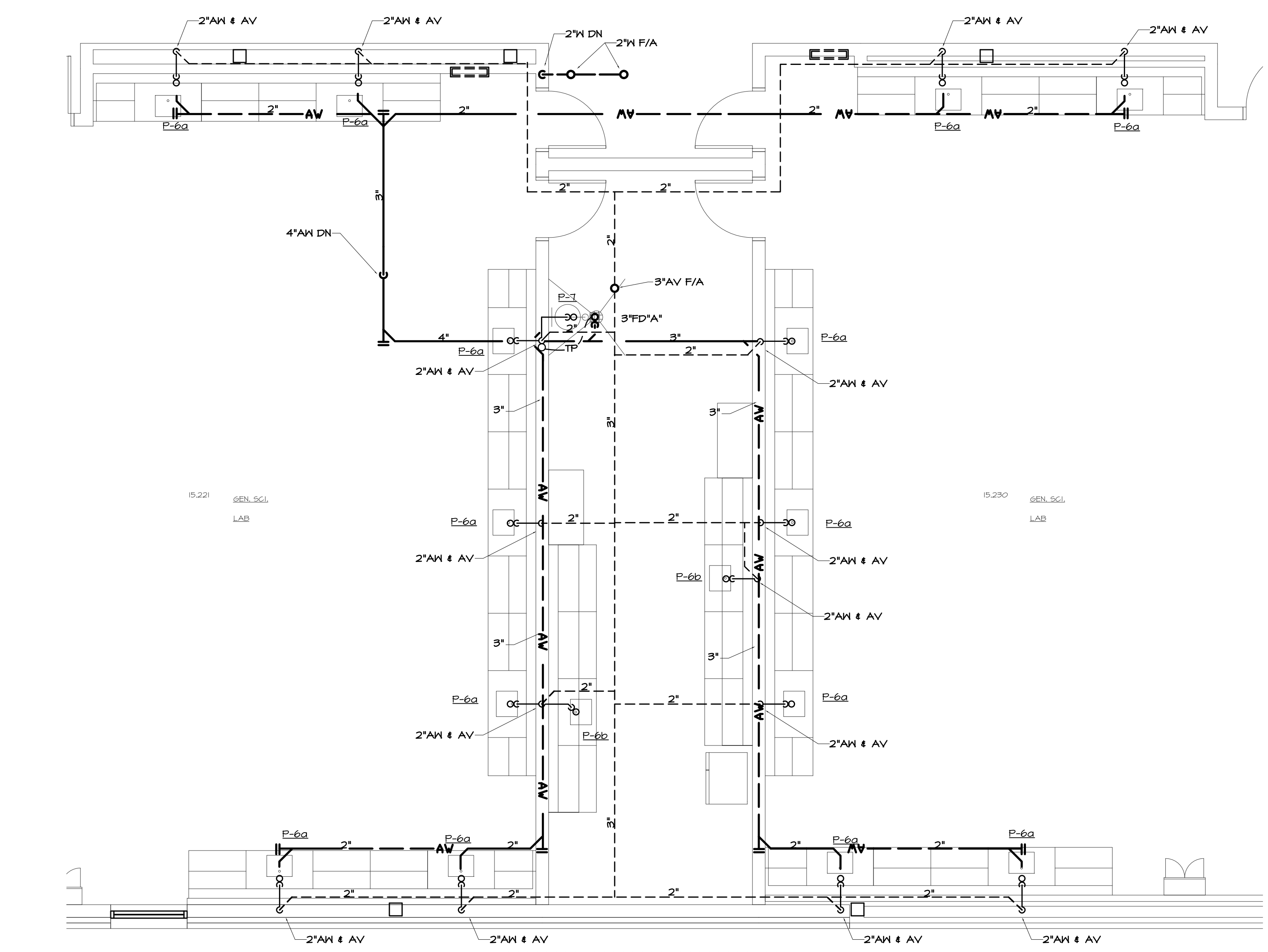
**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

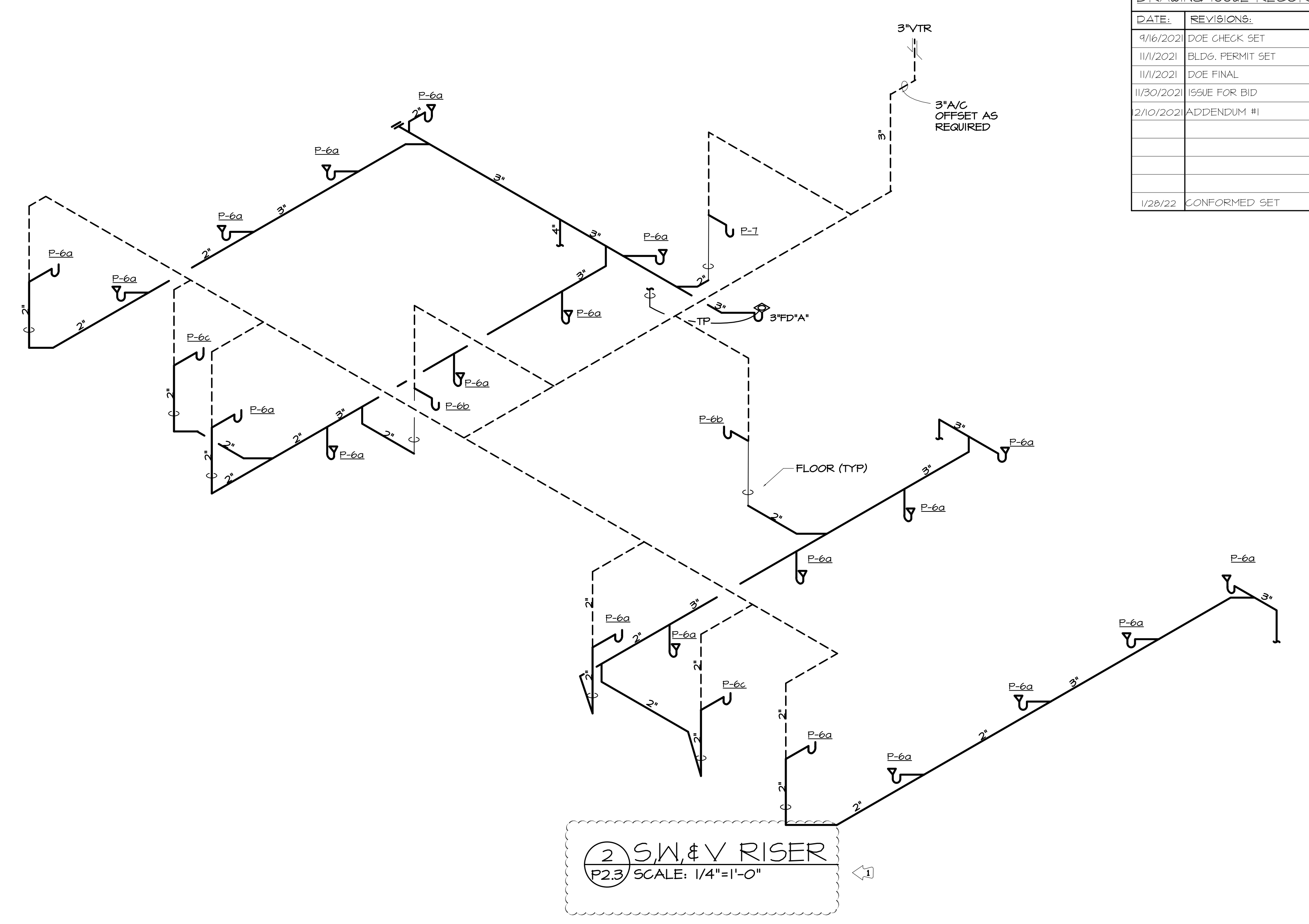
DATE: MARCH 1, 2021  
 JOB NO.: SHL-D01-21  
 DWG. BY: J.C.F.  
 OK. BY: M.W.D.



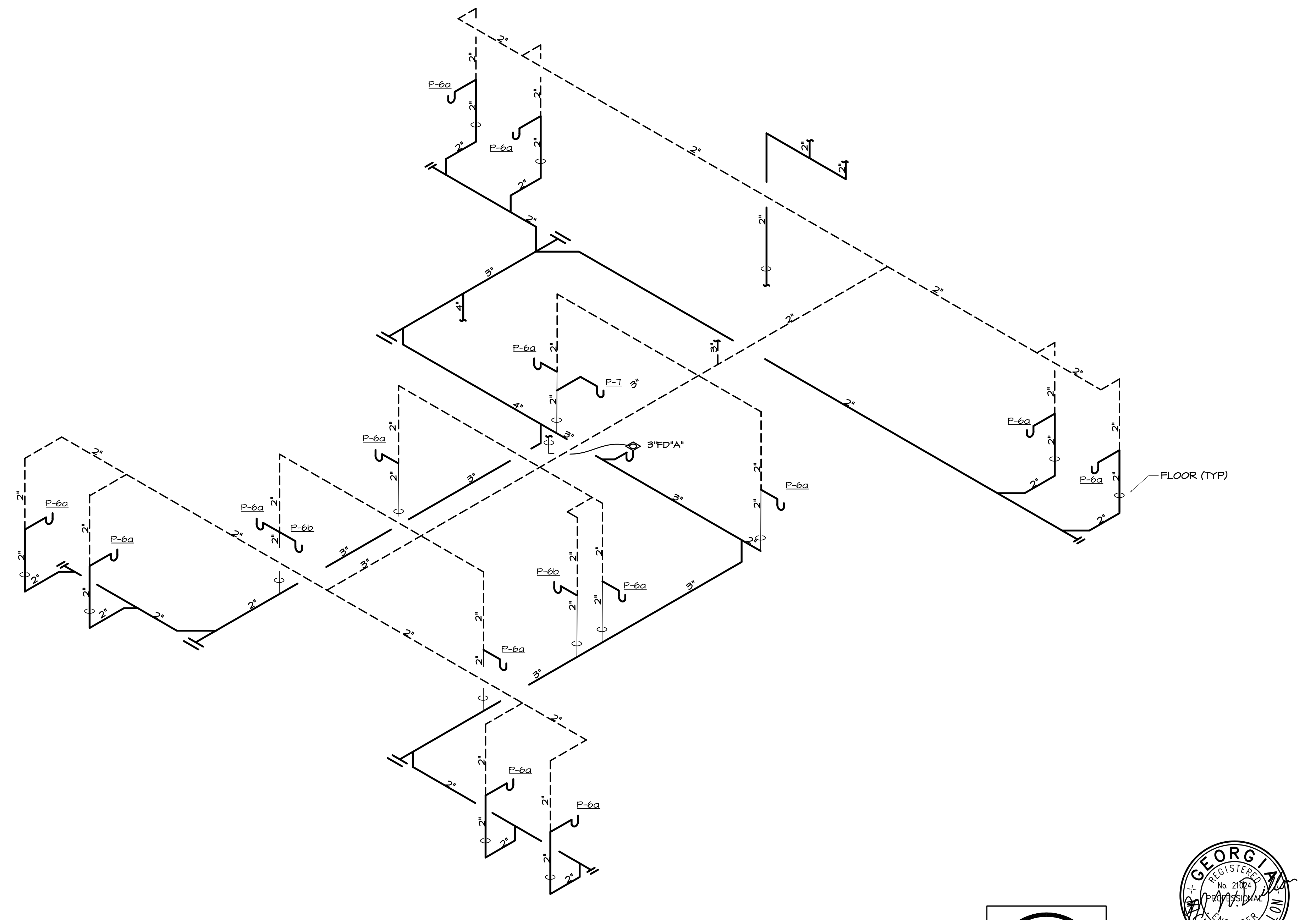
1 SW&V PLAN  
 P2.3 SCALE: 1/4"=1'-0"



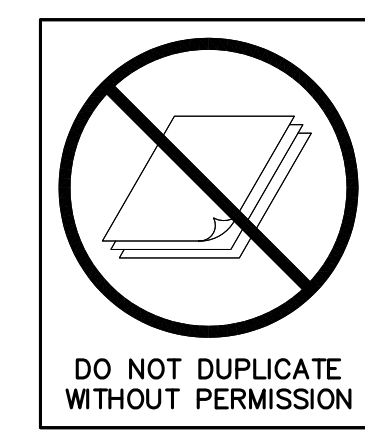
3 SW&V PLAN  
 P2.3 SCALE: 1/4"=1'-0"



2 SW&V RISER  
 P2.3 SCALE: 1/4"=1'-0"



4 SW&V RISER  
 P2.3 SCALE: 1/4"=1'-0"

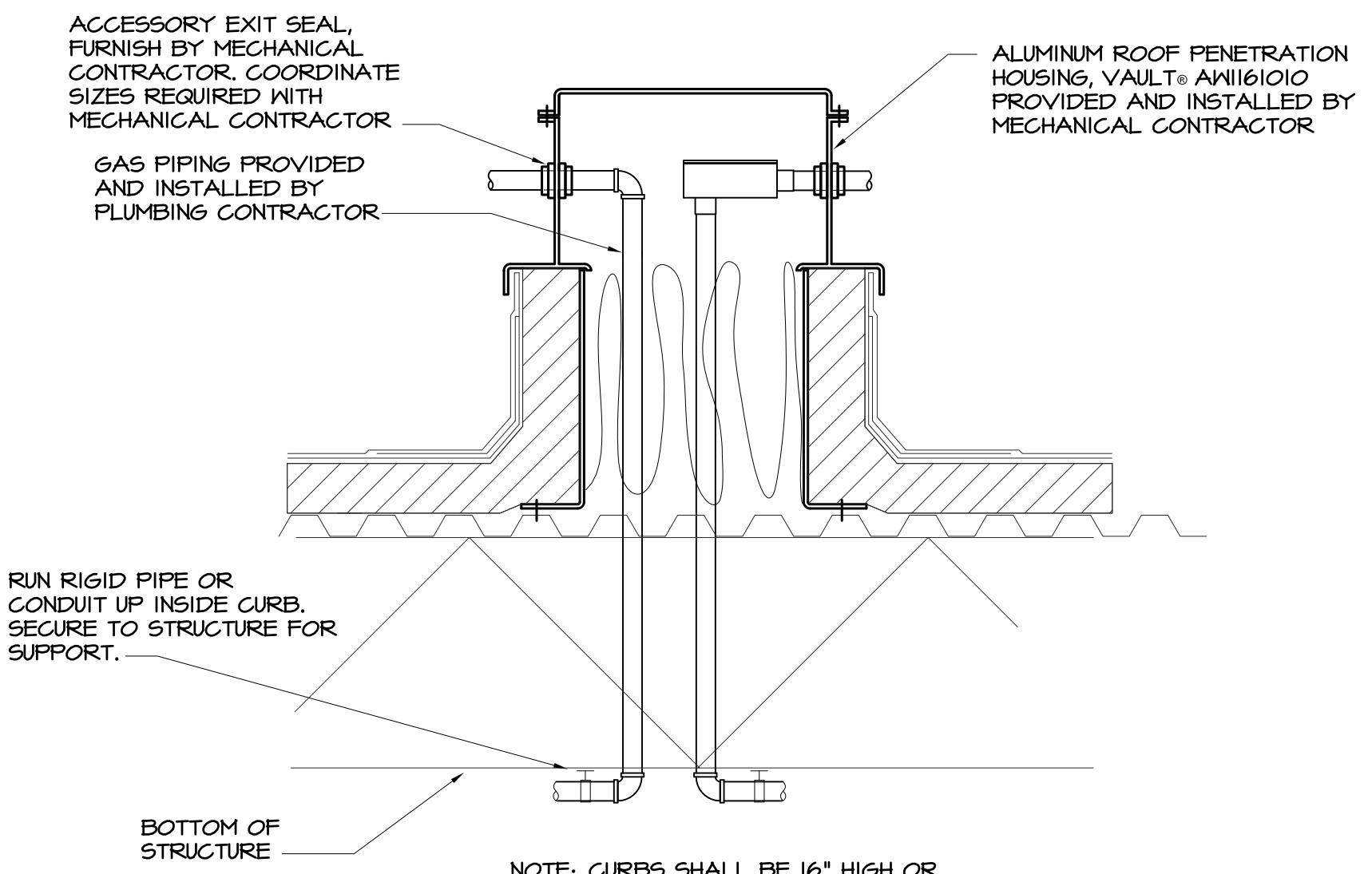


### PLUMBING LEGEND

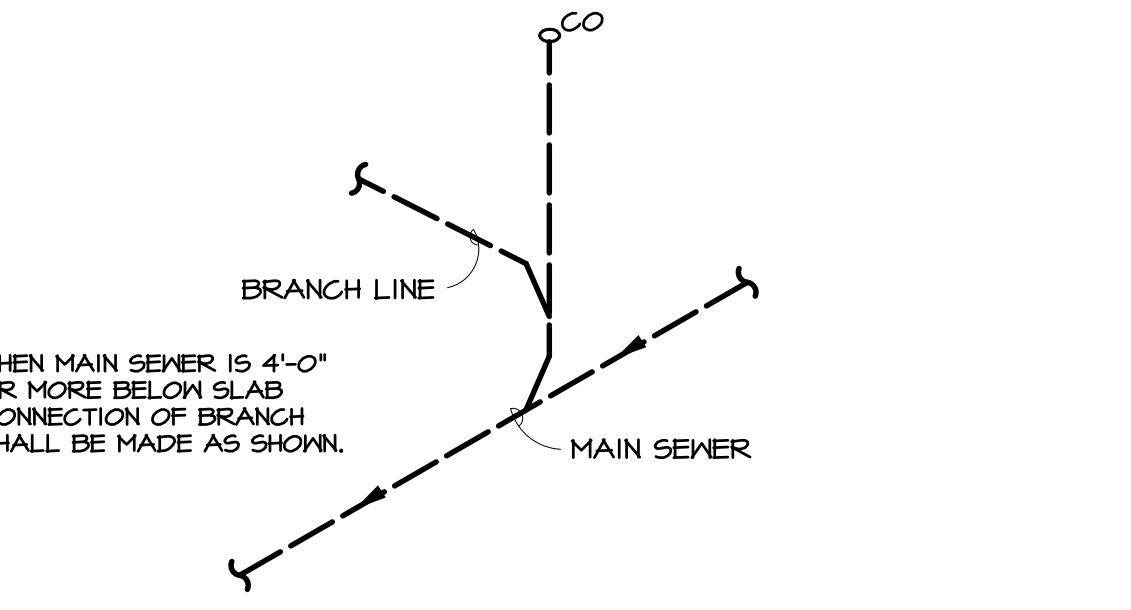
SYMBOL	DESCRIPTION
---	SOIL OR WASTE ABOVE SLAB
---	SOIL OR WASTE PIPING BELOW SLAB OR GRADE
---	VENT PIPING
---	COLD WATER PIPING
---	HOT WATER PIPING
---	140° HOT WATER PIPING
---	HOT WATER RECIRCULATING PIPING
---	RAIN WATER ABOVE SLAB
---	EMERGENCY RAIN WATER ABOVE SLAB
---	RAIN WATER BELOW SLAB OR GRADE
X-X-X	PIPING TO BE REMOVED
---	SUPPLY PIPING TO TRAP PRIMER
A	AIR PIPING
OAO	OVERHEAD AIR OUTLET
OAWO	OVERHEAD AIR AND WATER OUTLET
AO	AIR OUTLET
G	GAS PIPING ABOVE SLAB OR GRADE
G	GAS PIPING BELOW SLAB OR GRADE
HPG	HIGH PRESSURE GAS PIPING ABOVE SLAB OR GRADE
HPG	HIGH PRESSURE GAS PIPING BELOW SLAB OR GRADE
GW	GREASE WASTE PIPING ABOVE SLAB OR GRADE
GW	GREASE WASTE PIPING BELOW SLAB OR GRADE
AW	ACID WASTE PIPING ABOVE SLAB OR GRADE
AW	ACID WASTE PIPING BELOW SLAB OR GRADE
WA	WATER HAMMER ARRESTER, "A" INDICATES P.D.I. SIZE
GV	GATE VALVE OR BALL VALVE
VR	VALVE IN RISER
CV	CHECK VALVE
PRV	PRESSURE RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
GC	GAS COCK
SV	SOLENOID VALVE
ECV	ENERGY CUT-OFF VALVE
BV	BALANCING VALVE
TBV	THERMAL BALANCING VALVE
HB	HOSE BIBB - INSTALL 16" AFF AT LAVATORIES, 24" AFF IN SHOPS
WH	WALL HYDRANT - INSTALL 16" ABOVE FINISHED GRADE
FD/A	FLOOR DRAIN, "A" INDICATES TYPE
P-TRAP	P-TRAP
CO	CLEANOUT IN WALL - INSTALL 12" AFF MINIMUM
CO	CLEANOUT IN FLOOR SLAB OR FINISH GRADE
VTR	VENT THROUGH ROOF
PTD	PIPE TURNING DOWN
PTU	PIPE TURNING UP
TC	TEE CONNECTION IN SIDE OF PIPE
TC	TEE CONNECTION IN TOP OF PIPE
TC	TEE CONNECTION IN BOTTOM OF PIPE
U	UNION
EC	END CAP
I	INCREASER
RD	ROOF DRAIN
ERD	EMERGENCY ROOF DRAIN
DS/DSN	DOWN SPOUT / DOWN SPOUT NOZZLE
RN/RNH	RAIN WATER PIPING / EMERGENCY RAIN WATER PIPING
RL/RLH	RAIN LEADER / EMERGENCY RAIN LEADER
FDC	FIRE DEPARTMENT CONNECTION
F	FIRE LINE
FH	FIRE HYDRANT
A/C	ABOVE CEILING
AFF / AFF	ABOVE FINISHED FLOOR / ABOVE FLOOR
INV. / I.E.	INVERT ELEVATION
EXIST. / EX.	EXISTING
DN	DOWN
HC	HANDICAP
BF	BARRIER FREE
CO	CLEAN OUT
ECO	EXISTING CLEAN OUT
DCO	DROP CLEAN OUT
BFF/ B/F	BELOW FINISHED FLOOR / BELOW FLOOR
B/G	BELOW GRADE
FA	FRESH AIR
DST	DEEP SEAL TRAP
W	WASTE
SAN	SANITARY
V	VENT
H/W	HOT WATER
CW	COLD WATER
AW	ACID WASTE
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
GW	GREASE WASTE

### FIXTURE CONNECTION SCHEDULE

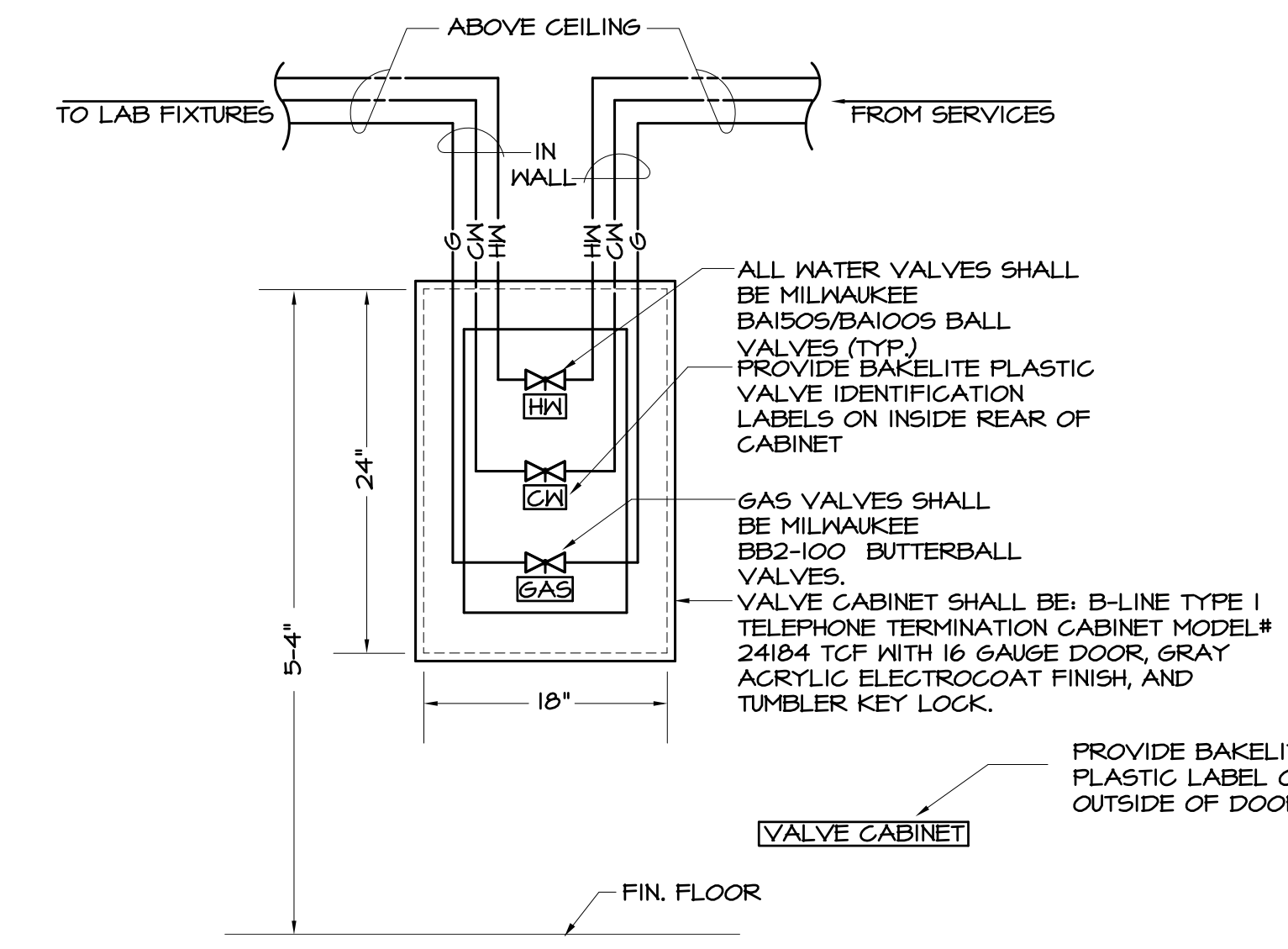
DESIG.	FIXTURE	COLD WATER		HOT WATER		WASTE OUTLET CONNECTION	MOUNTING HEIGHT TO RIM
		BRANCH STUB-OUT	FIXTURE SUPPLY	BRANCH STUB-OUT	FIXTURE SUPPLY		
P-1	WATER CLOSET	1"	1"	--	--	4"	--
P-1a	WATER CLOSET (BF)	1"	1"	--	--	4"	--
P-1b	WATER CLOSET (WALL HUNG)	1"	1"	--	--	4"	14"
P-1c	WATER CLOSET (BF) (WALL HUNG)	1"	1"	--	--	4"	16"
P-2	LAVATORY (BF)	1/2"	3/8"	1/2"	3/8"	1-1/4"	24" TO BOT.
P-2a	LAVATORY (STUDENT)	1/2"	3/8"	--	--	1-1/4"	30"
P-2b	LAVATORY (STUDENT-BF)	1/2"	3/8"	--	--	1-1/4"	24" TO BOT.
P-2c	HEALTHCARE LAVATORY	1/2"	3/8"	1/2"	3/8"	1-1/4"	24" TO BOT.
P-3	URINAL	3/4"	3/4"	--	--	2"	22"
P-3a	URINAL (BF)	3/4"	3/4"	--	--	2"	17"
P-4	MOP BASIN	1/2"	1/2"	1/2"	1/2"	3"	--
P-5	DRINKING FOUNTAIN	1/2"	3/8"	--	--	1-1/4"	40" TO SPOUT
P-5a	DRINKING FOUNTAIN, BOTTLE FILLER (BF)	1/2"	3/8"	--	--	1-1/4"	36" TO SPOUT
P-5b	DRINKING FOUNTAIN	1/2"	3/8"	--	--	1-1/4"	36" TO SPOUT
P-6	SINK, WORKROOM	1/2"	3/8"	1/2"	3/8"	1-1/2"	--
P-6a	SINK, SCIENCE (TEACHER)	1/2"	3/8"	1/2"	3/8"	1-1/2"	--
P-6b	SINK, SCIENCE (PREP)	1/2"	3/8"	1/2"	3/8"	1-1/2"	--
P-6c	FUME HOOD	1/2"	3/8"	1/2"	3/8"	1-1/2"	--
P-6d	SINK, HEALTHCARE	1/2"	3/8"	1/2"	3/8"	1-1/2"	--
P-6e	SINK, SPECIAL ED - DOUBLE COMPARTMENT	1/2"	3/8"	1/2"	3/8"	1-1/2"	--
P-7	SHOWER/ EYE WASH STATION - SCIENCE	1"	1"	--	--	--	--
P-8	ICE MAKER BOX	1/2"	3/8"	--	--	--	24"
P-9	WASHER CONNECTION	1/2"	1/2"	1/2"	1/2"	2"	36"



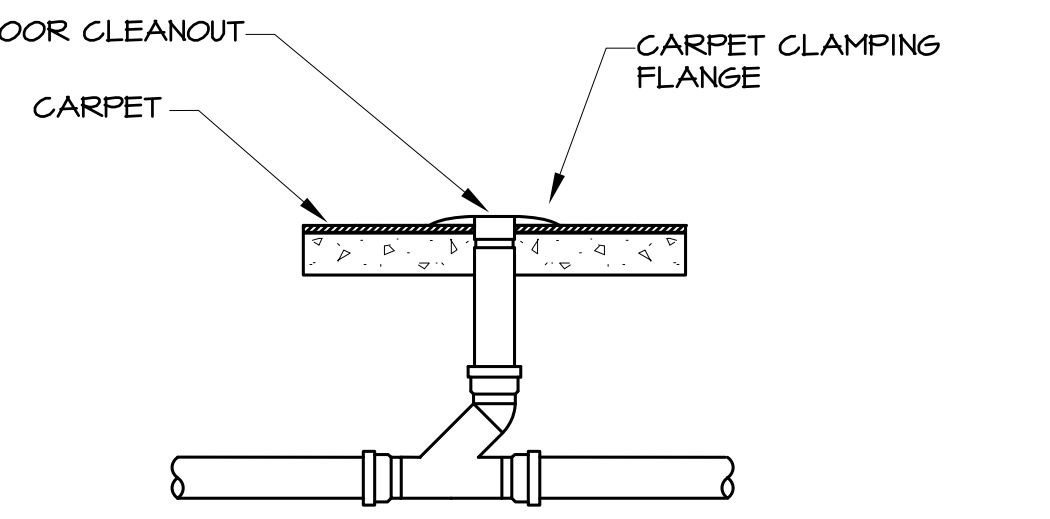
**8 PIPE CURB DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



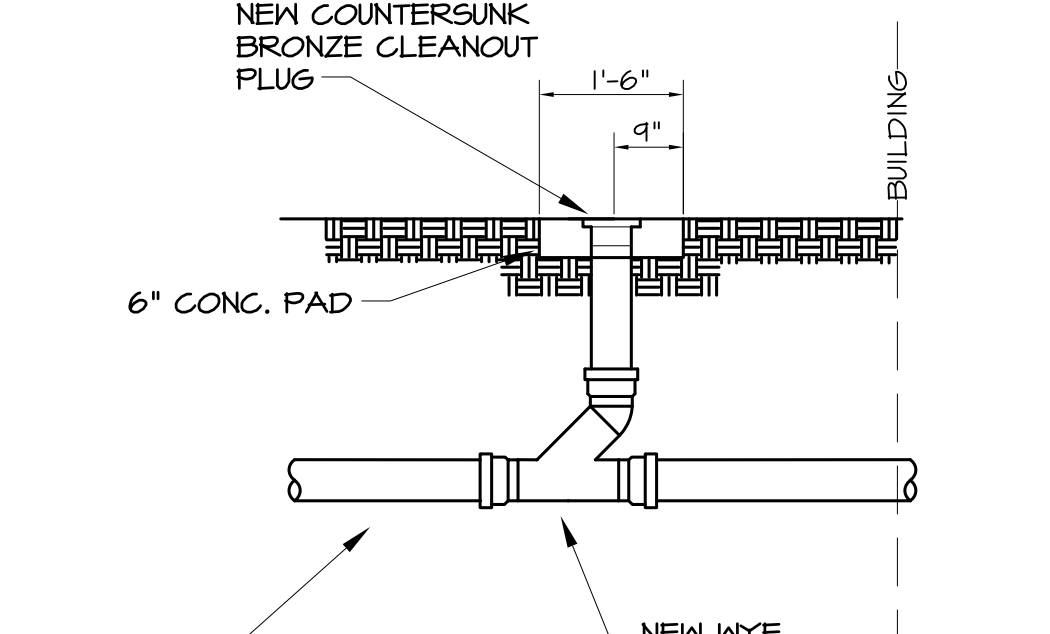
**9 DROP C.O./BRANCH LINE CONNECTION DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



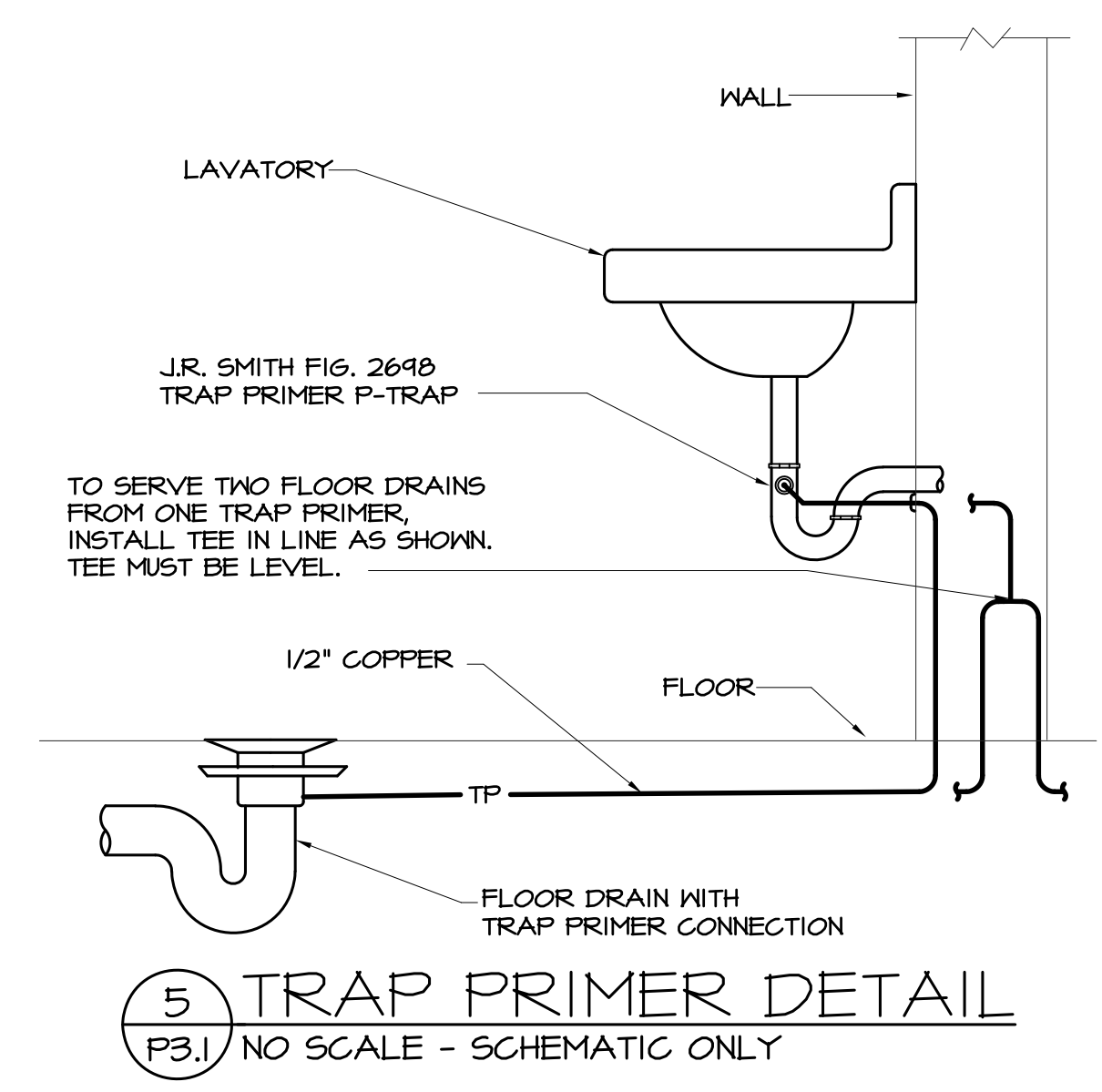
**10 PLUMBING CABINET DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



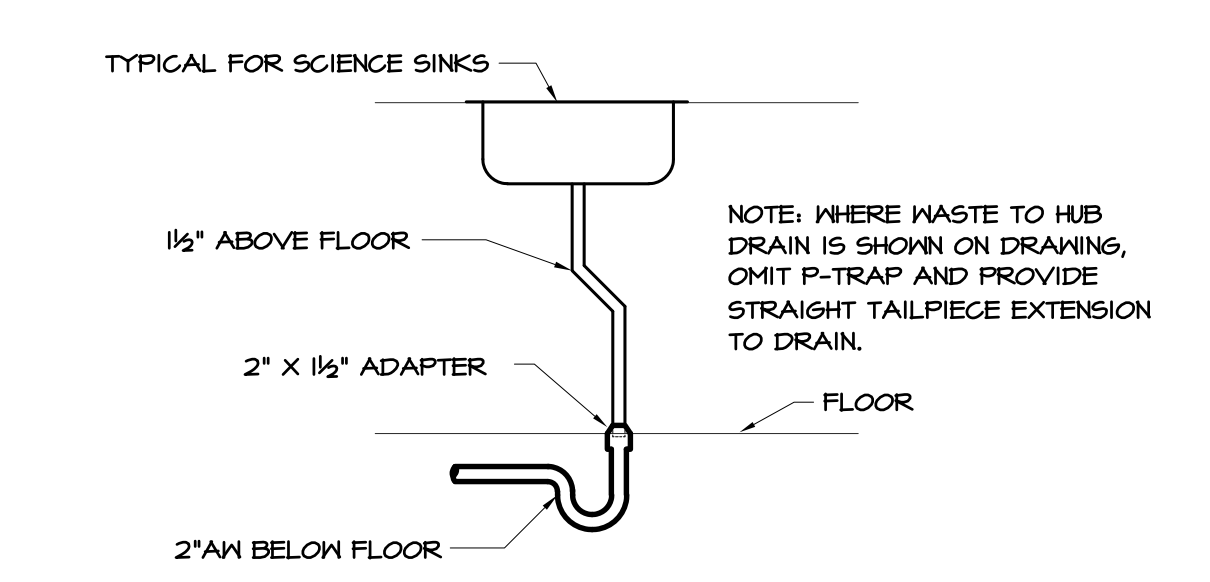
**11 CARPET CLEANOUT DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



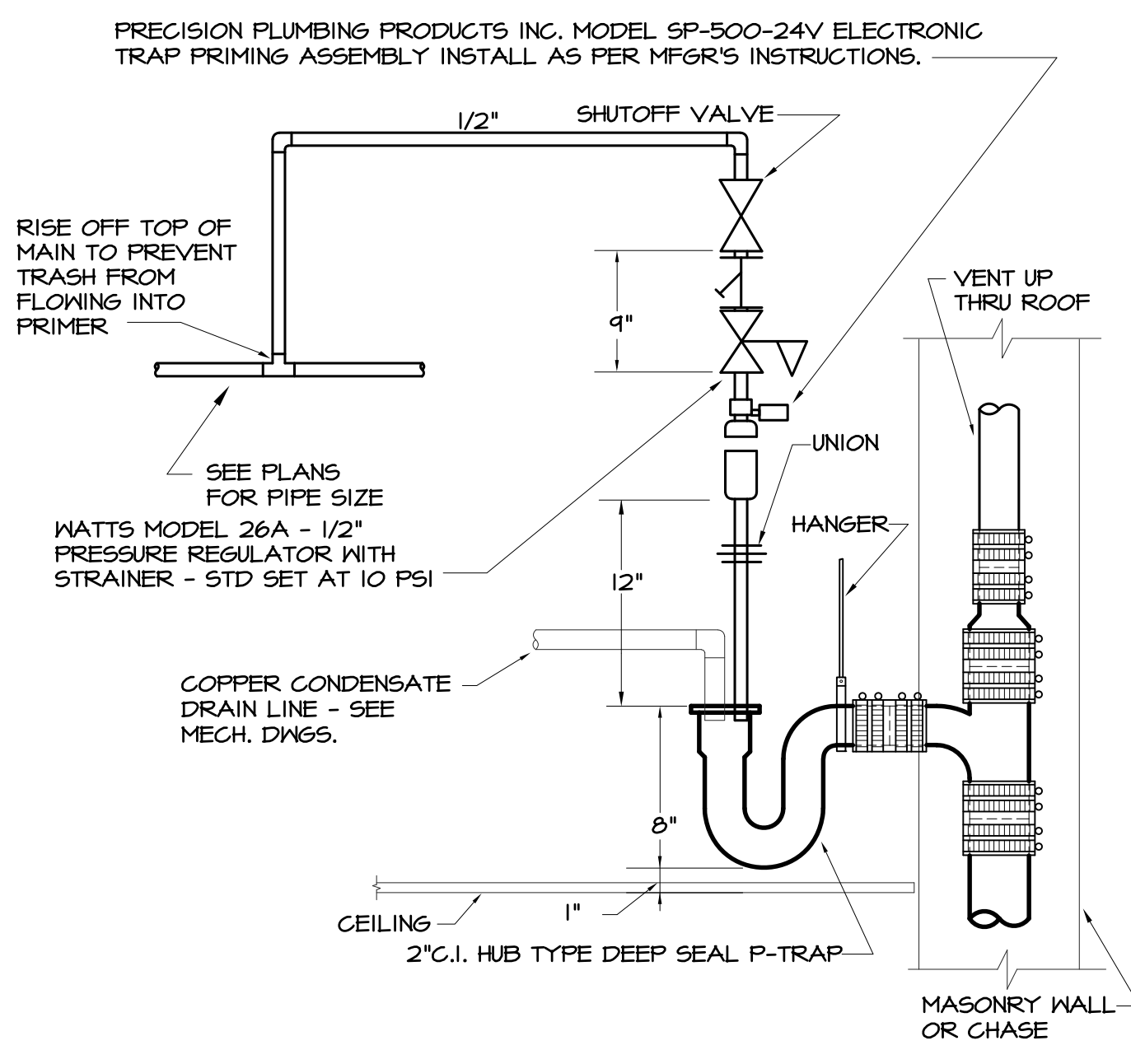
**12 EXTERIOR CLEANOUT DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



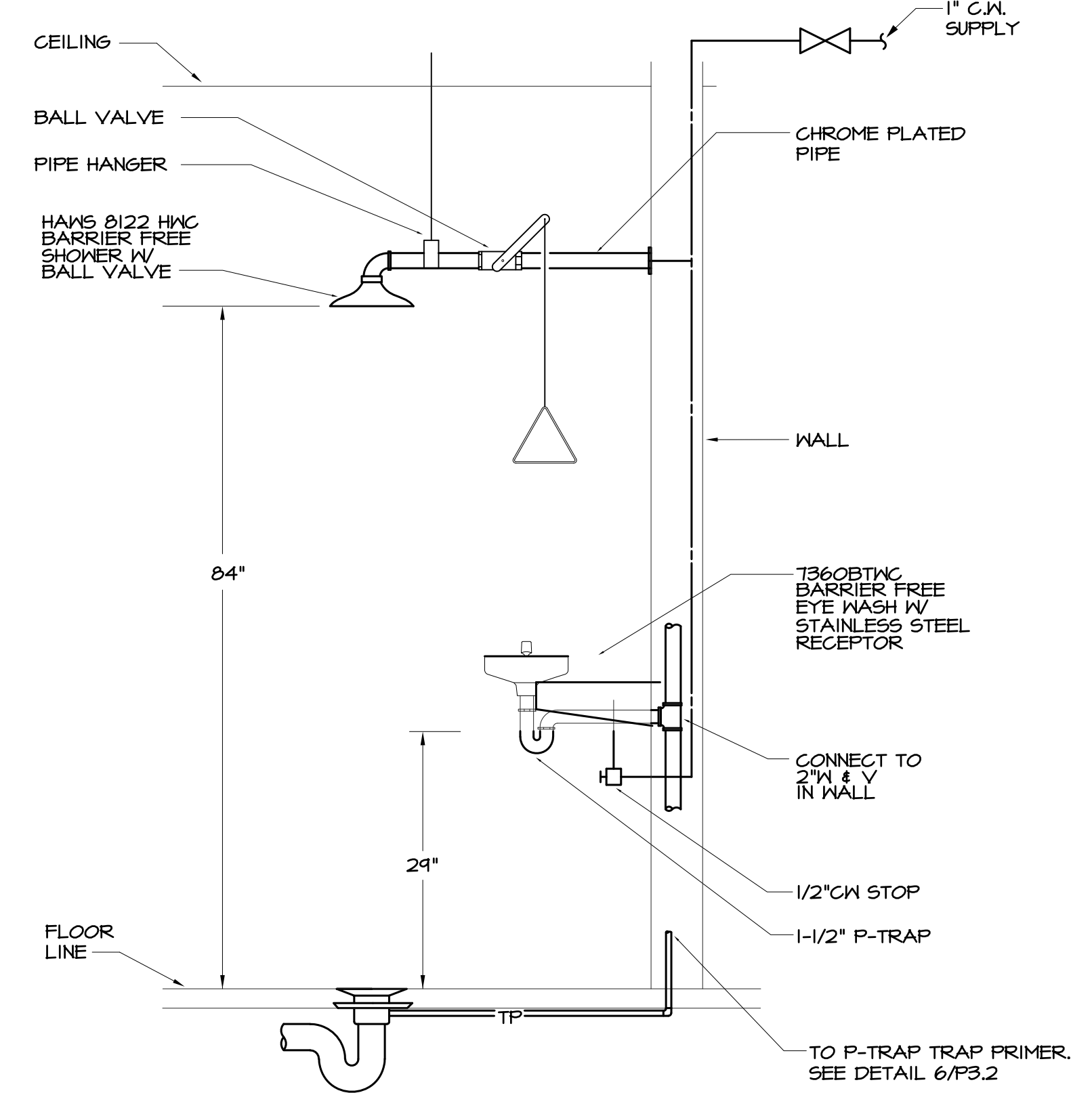
**5 TRAP PRIMER DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



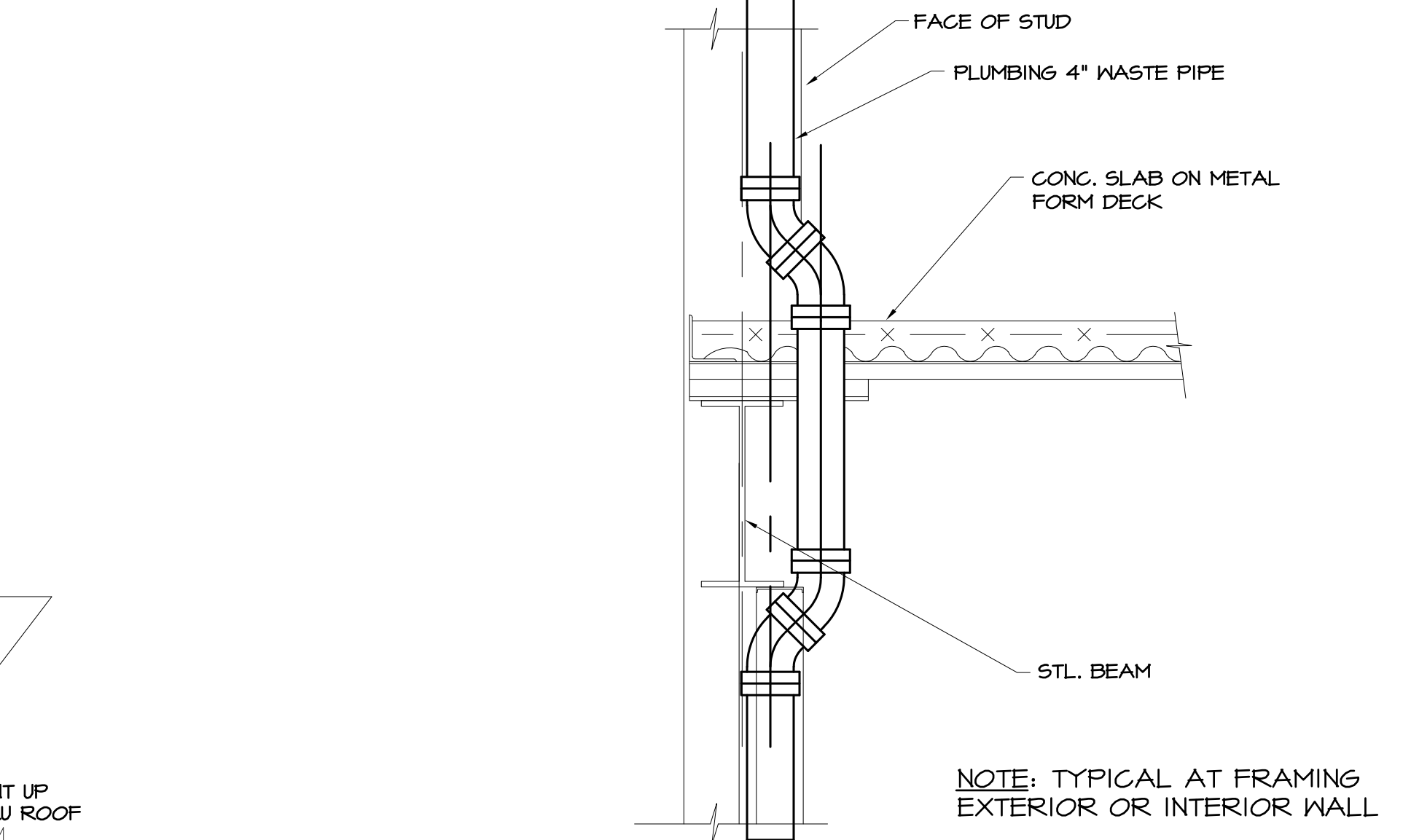
**1 ACID DILUTION CONNECTION**  
P3.1 NO SCALE - SCHEMATIC ONLY



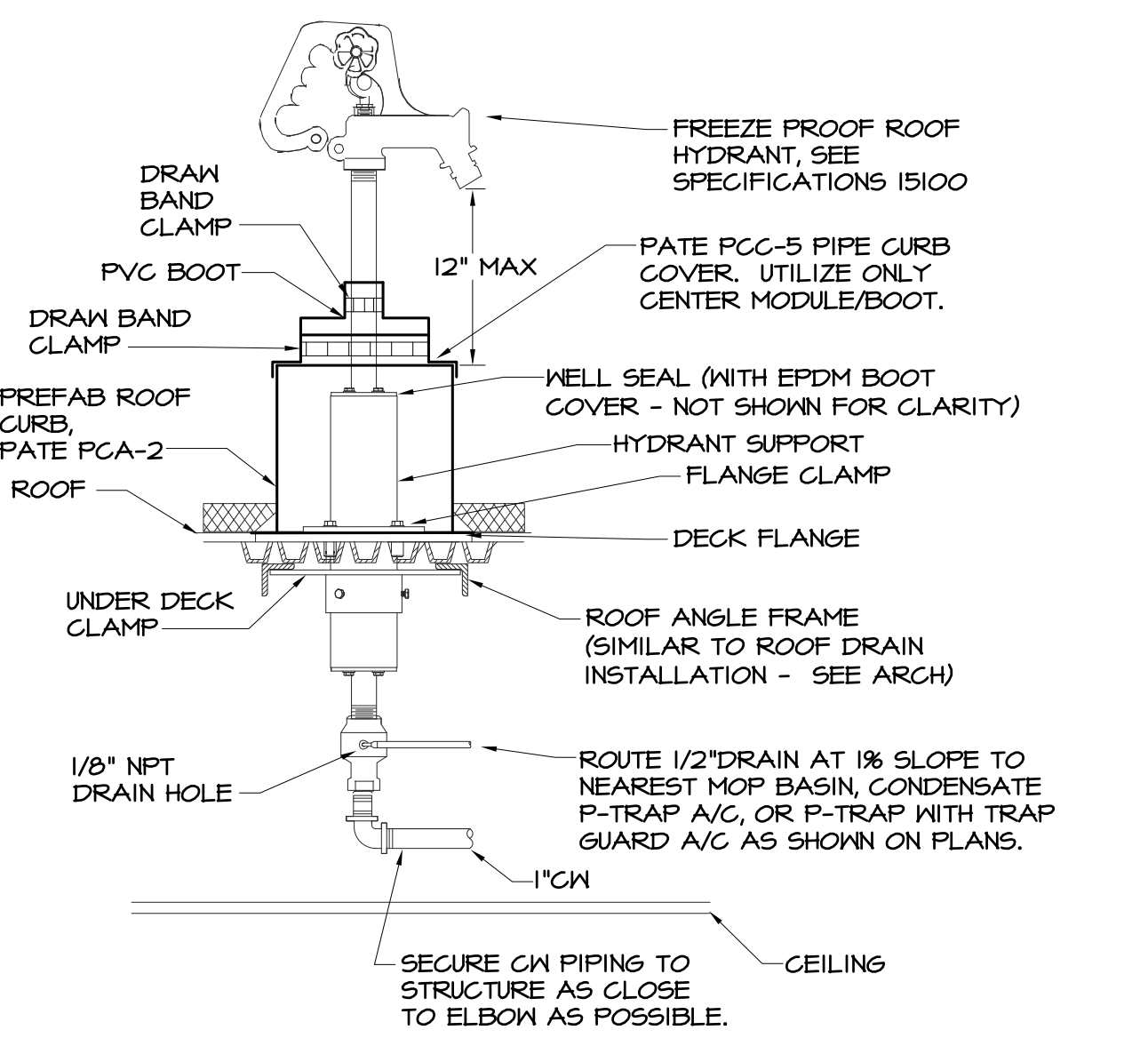
**6 TYPICAL CONDENSATE P-TRAP WITH AUTOMATIC PRIMER**  
P3.1 NO SCALE - SCHEMATIC ONLY



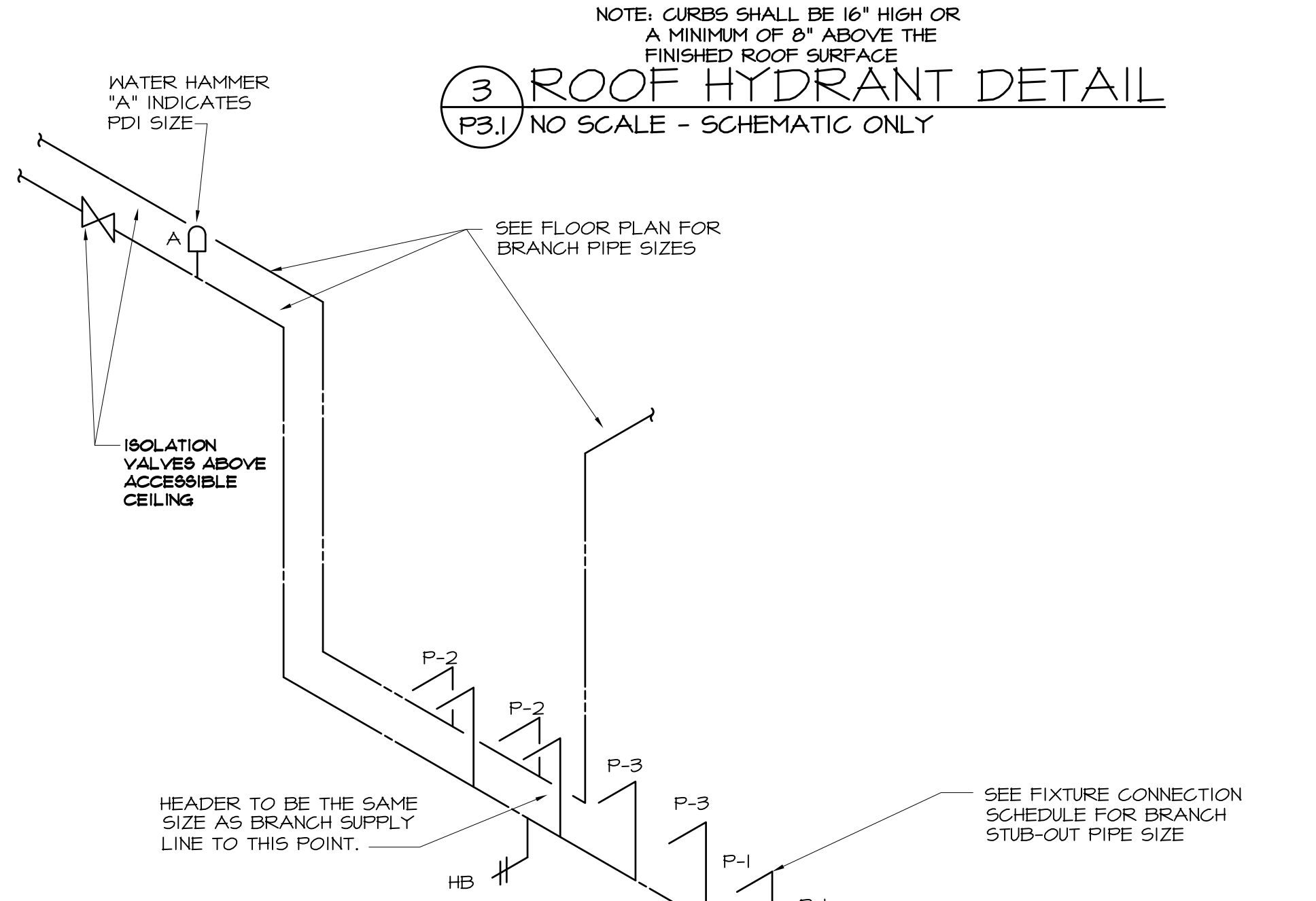
**7 SCIENCE/PREP ROOM EYEWASH / EMERGENCY SHOWER DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



**2 TYPICAL PIPE OFFSET/WALL SECTION**  
P3.1 NO SCALE - SCHEMATIC ONLY



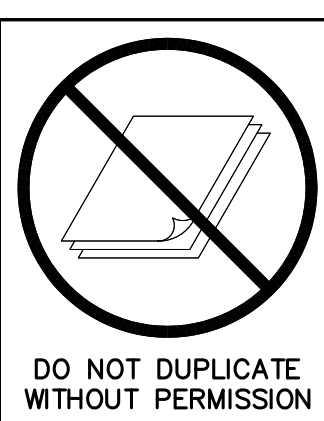
**3 ROOF HYDRANT DETAIL**  
P3.1 NO SCALE - SCHEMATIC ONLY



**4 TYPICAL WATER RISER DETAIL FOR TOILET CHASES**  
P3.1 NO SCALE - SCHEMATIC ONLY

### DRAWING ISSUE RECORD

DATE	REVISIONS	NO
9/16/2021	DOE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
12/9/2021	BLDG. PERMIT RESUBMITAL	
1/26/22	CONFORMED SET	



**SPURLOCK & ASSOCIATES, INC.**  
consulting engineers  
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8A JOB NO. 212

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

FACILITY CODE 66T-4556

# Cunningham Forehand Matthews Moore

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE: MARCH 1, 2021  
JOB NO. SHL-00-21  
DWG. BY: J.C.F.  
CHK. BY: M.W.D.

**P3.1**

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
10/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
12/9/2021	BLDG. PERMIT RESUBMITTAL	
2/21/2022	APPENDUM #3	
1/26/22	CONFORMED SET	

FACILITY CODE 66T-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 JOB NO. SHL-001-21  
 DATE: MARCH 1, 2021  
 DWG. BY: J.C.F.  
 OK BY: M.W.D.

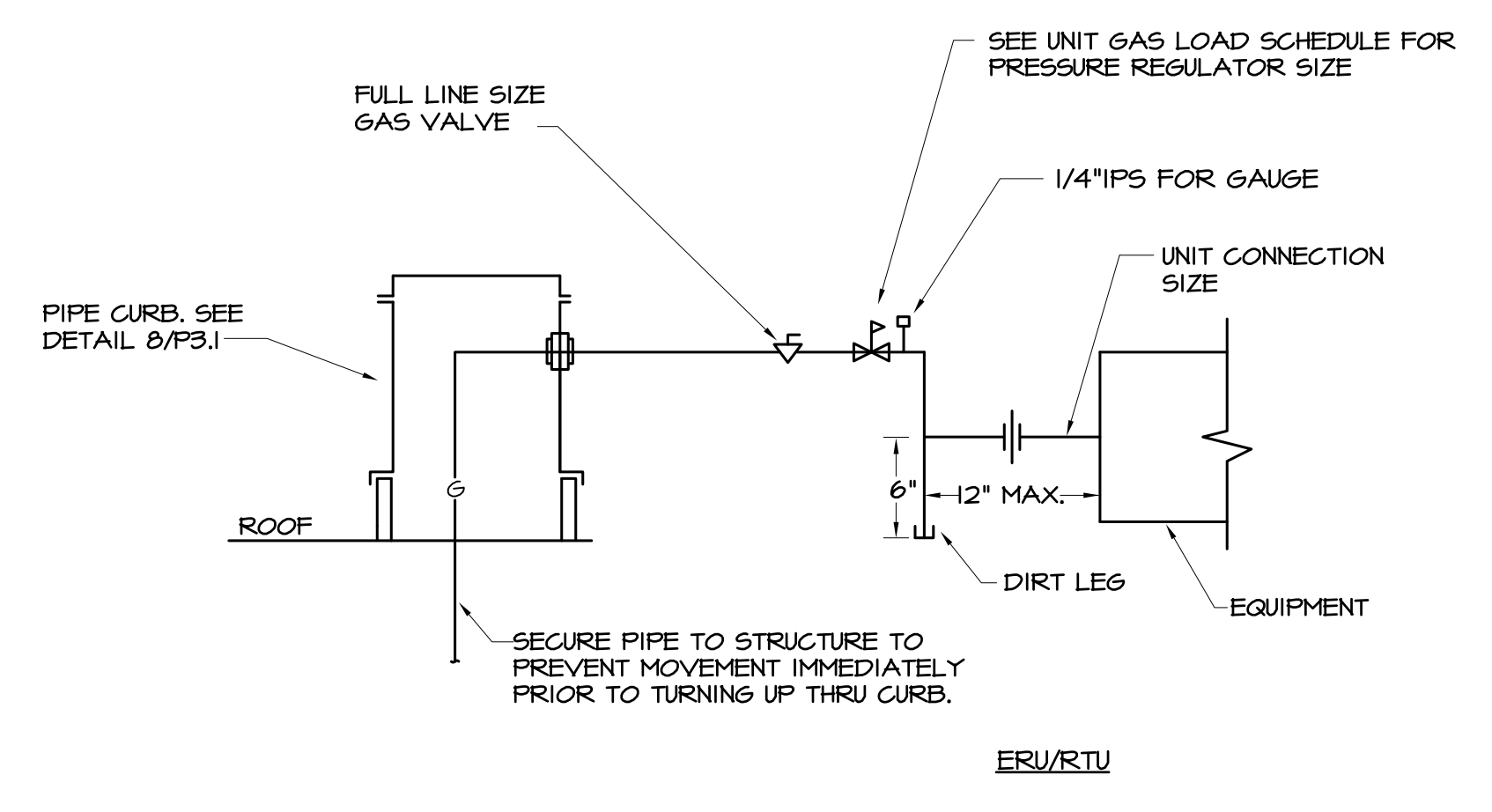
**cunningham forehand matthews moore**  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

**P3.2**

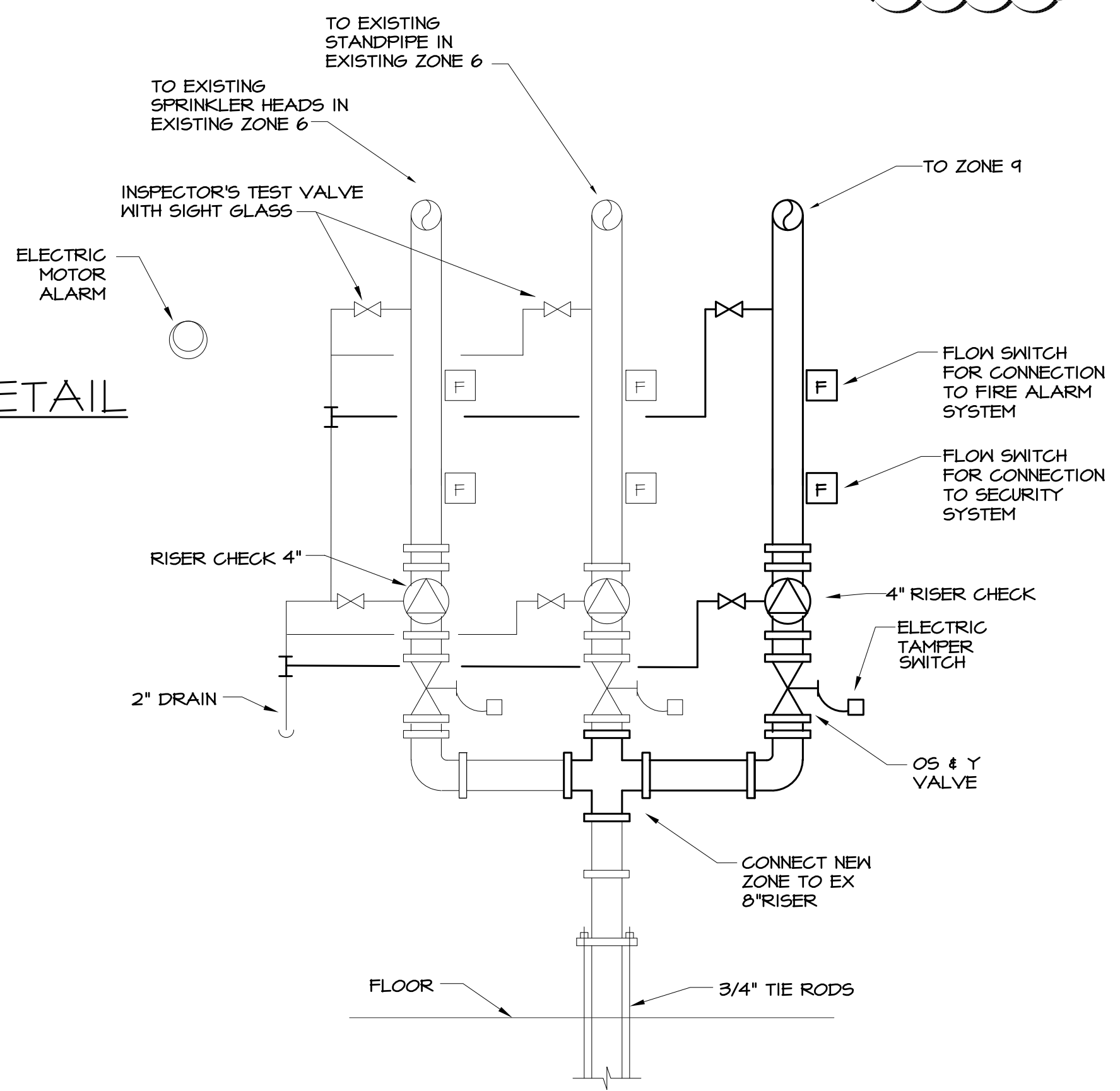
GAS PRESSURE REGULATOR SIZING					
ROOF-TOP UNIT DESIGNATION	R36	R48	R60	RT2	ERU-1
GAS LOAD (CFH)	67	180	110	150	270
SENSUS GAS PRESSURE REG MODEL #	496	496	496	496	496
INLET GAS PRESSURE	5 PSI	5 PSI	5 PSI	5 PSI	5 PSI
OUTLET GAS PRESSURE	7" W.C.	7" W.C.	7" W.C.	7" W.C.	7" W.C.

**SPRINKLER NOTES:**

- A. CONTRACTOR SHALL RELOCATE ALL EXISTING SPRINKLER PIPING, MAINS, AND HEADS AS NECESSARY TO CLEAR THE REQUIRED SERVICE AREAS OF THE NEW HVAC EQUIPMENT AND THE DUCTWORK CHANGES. CONTRACTOR SHALL FIELD VERIFY EXISTING SPRINKLERS LOCATION. SEE MECHANICAL SHEETS FOR COORDINATION BETWEEN THE TRADES IN CORRIDORS & BUILDING SECTIONS. SPRINKLER PIPING SHALL NOT BE INSTALLED IN HVAC SERVICE CLEARANCES.
- B. CONTRACTOR SHALL RAISE/LOWER/RELOCATE/REPLACE/OFFSET/EXTEND EXISTING SPRINKLER HEADS/PIPING/MAINS AS NECESSARY WHERE NEW CEILINGS ARE BEING INSTALLED. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR NEW CEILING LOCATIONS. AREA AFFECTED ARE COVERED BY APPROXIMATELY 24 HEADS.
- C. CONTRACTOR SHALL RELOCATE SPRINKLER HEADS TO AVOID LIGHTING FIXTURES. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR REFLECTED CEILING PLANS. LOCATE SPRINKLER HEADS IN CENTER OR QUARTER POINTS OF 4X2 TILE AND CENTER POINTS OF 2X2 TILE.
- D. CONTRACTOR SHALL INSTALL ADDITIONAL HEADS AS NECESSARY TO MAINTAIN CODE REQUIRED MINIMUM COVERAGE IN AREAS WHERE MALL LAYOUTS HAVE CHANGED.
- E. CONTRACTOR SHALL OBTAIN FIRE MARSHAL APPROVAL BEFORE MAKING MODIFICATIONS TO THE SPRINKLER SYSTEM. THIS SHALL REQUIRE SPRINKLER SHOP DRAWINGS TO BE SUBMITTED. A PERMIT MUST BE OBTAINED BEFORE ANY SPRINKLER WORK IS INSTALLED.
- F. REMOVE SPRINKLER ESCUTCHEONS AND REINSTALL IN AREAS SHOWN TO HAVE NEW CEILINGS. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR REFLECTED CEILING PLANS.
- G. SPRINKLER CONTRACTOR SHALL FIELD SURVEY EXISTING ZONES AND PROVIDE NEW ZONE MAPS INCLUDING ALL NEW AND EXISTING ZONES AS BUILT ZONE MAPS PER SPECIFICATIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND INSTALLED IN MECHANICAL ROOM AT THE SPRINKLER RISER PRIOR TO FINAL COMPLETION OF THE PROJECT.



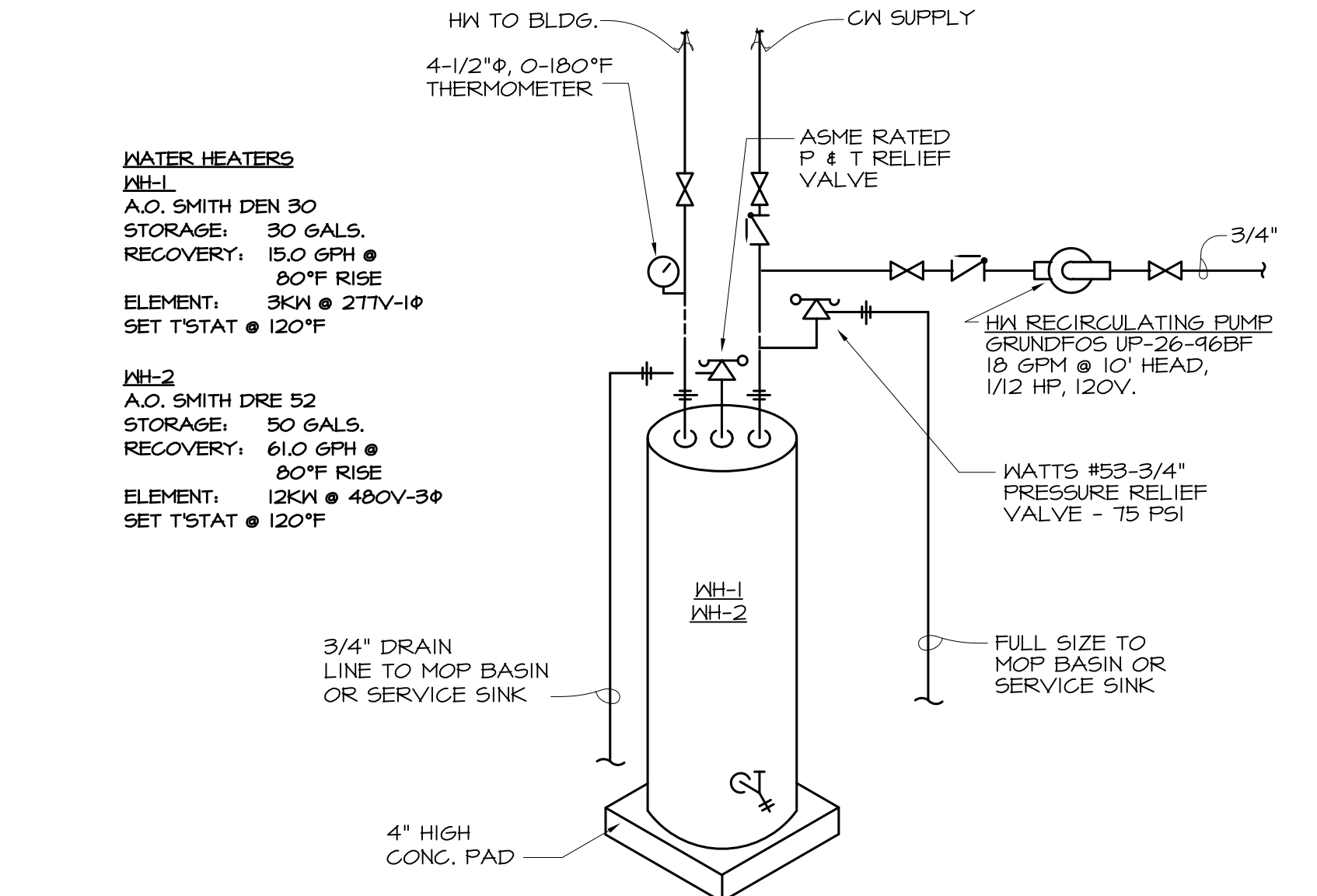
**3 TYPICAL GAS CONNECTION DETAIL**  
P3.2 NO SCALE - SCHEMATIC ONLY



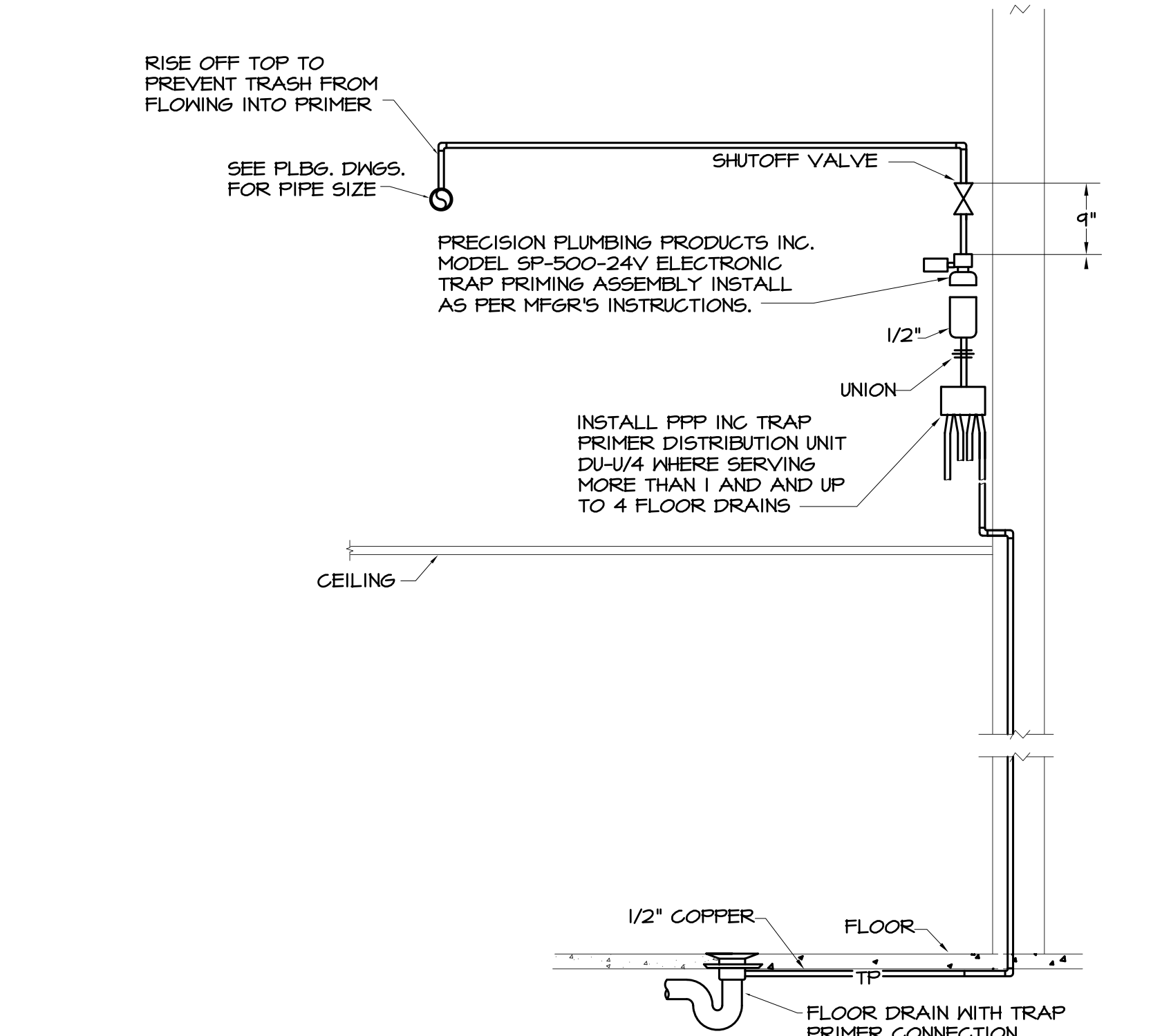
WATER FLOW TEST DATA	
FLOW TEST DATE:	10/28/21
STATIC PRESSURE:	145 PSI
RESIDUAL PRESSURE:	140 PSI
FLOW:	1453 GPM
FLOW AVAILABLE @ 20 P.S.I.:	8,236 GPM

NOTE: FLOW TEST ABOVE IS FOR PERMITTING PURPOSE ONLY. SPRINKLER CONTRACTOR SHALL PERFORM A SEPARATE 24 HOUR FLOW TEST TO CONFIRM PRESSURES FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM. ALL FIRE FLOWS SHALL MEET THE REQUIRED FLOW RATES FOUND IN INTERNATIONAL FIRE CODES 2018 APPENDIX B.

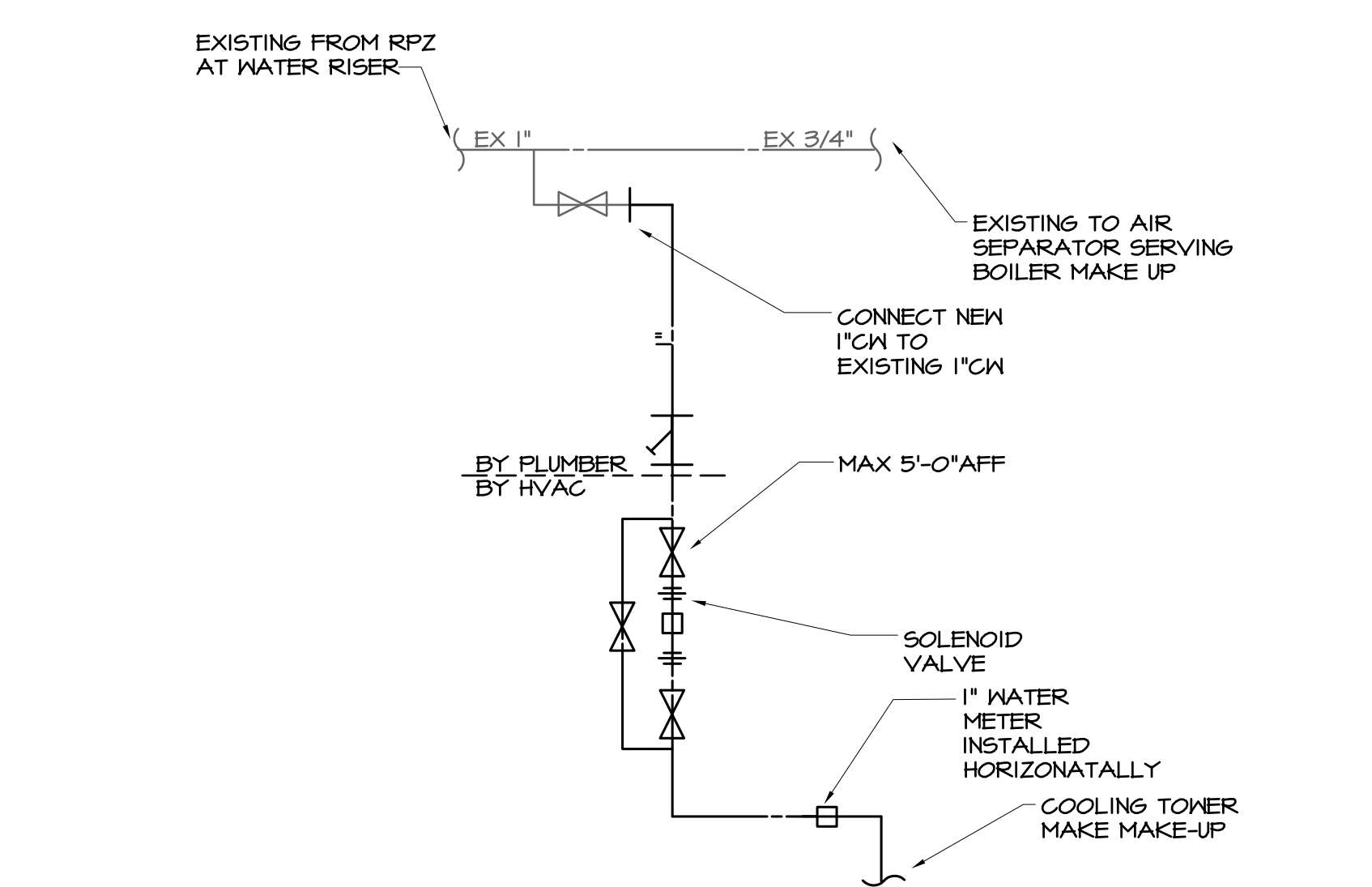
**2 SPRINKLER RISER DETAIL**  
P3.2 NO SCALE - SCHEMATIC ONLY



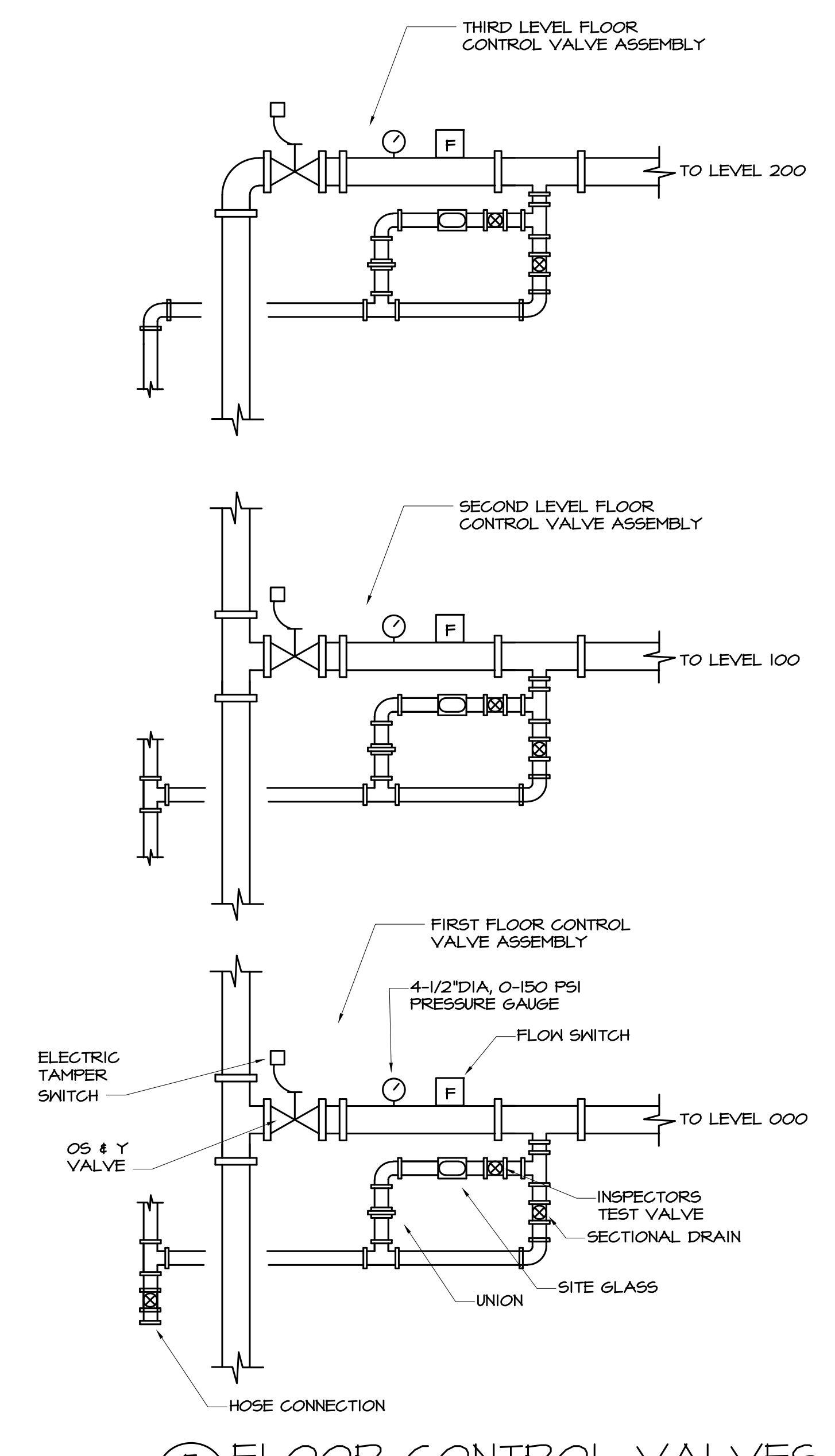
**4 WATER HEATERS WH-1 & 2 DETAIL**  
P3.2 NO SCALE - SCHEMATIC ONLY



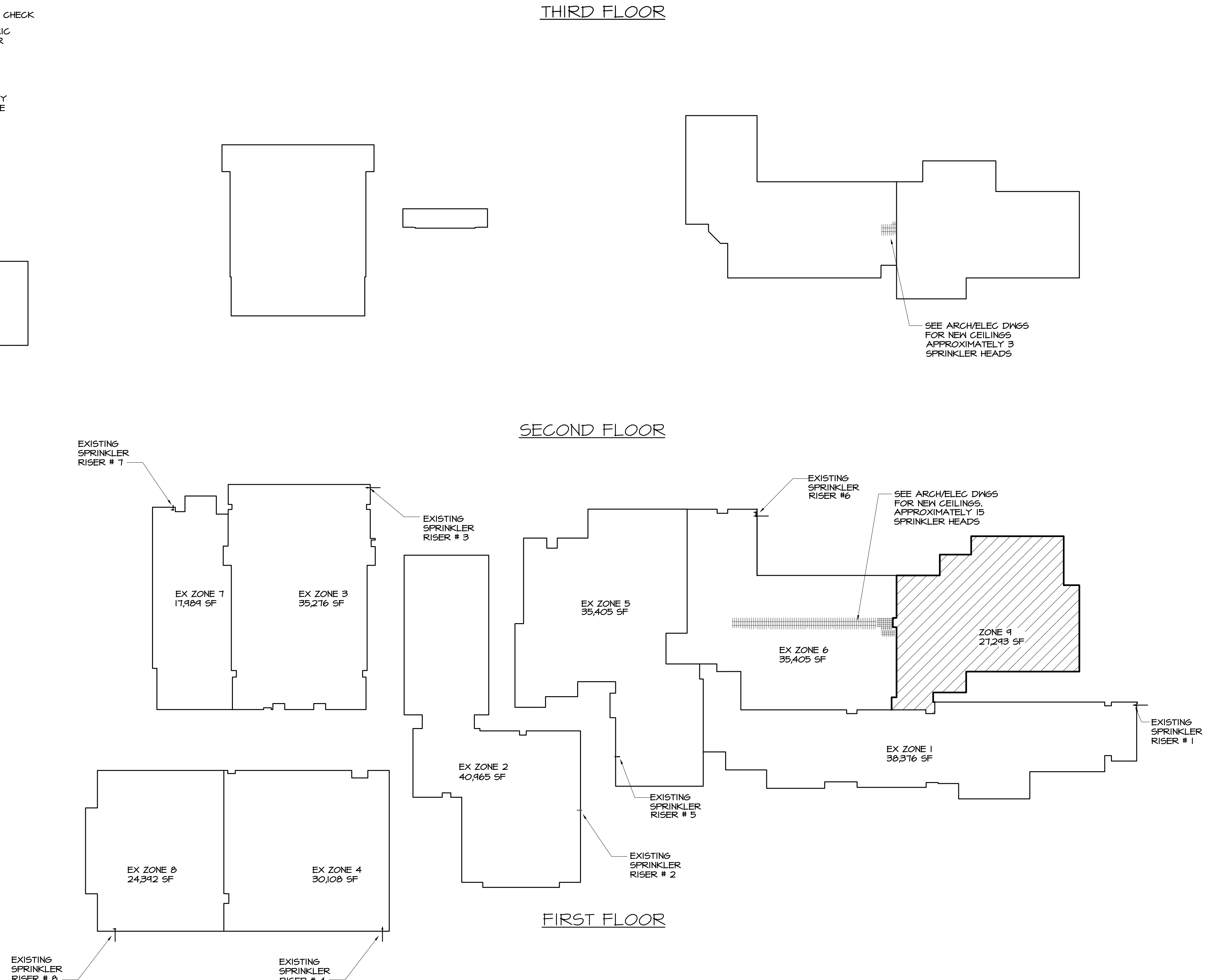
**6 TRAP PRIMER DETAIL**  
P3.2 NO SCALE - SCHEMATIC ONLY



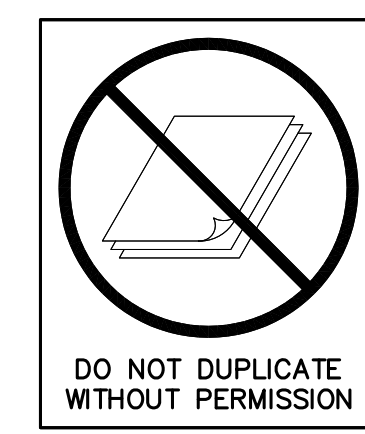
**7 COOLING TOWER MAKE UP DETAIL**  
P3.2 NO SCALE - SCHEMATIC ONLY



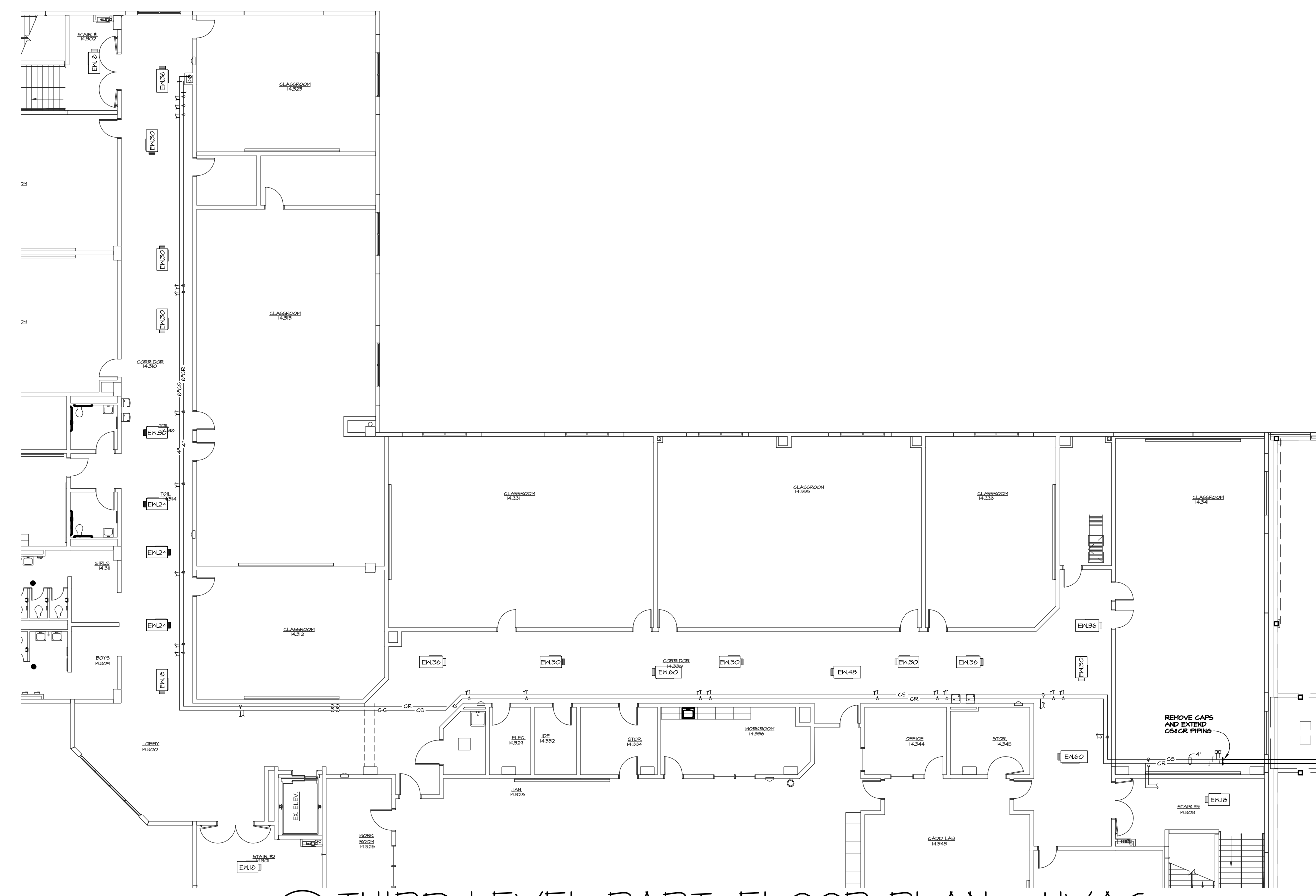
**5 FLOOR CONTROL VALVES**  
P3.2 NO SCALE - SCHEMATIC ONLY



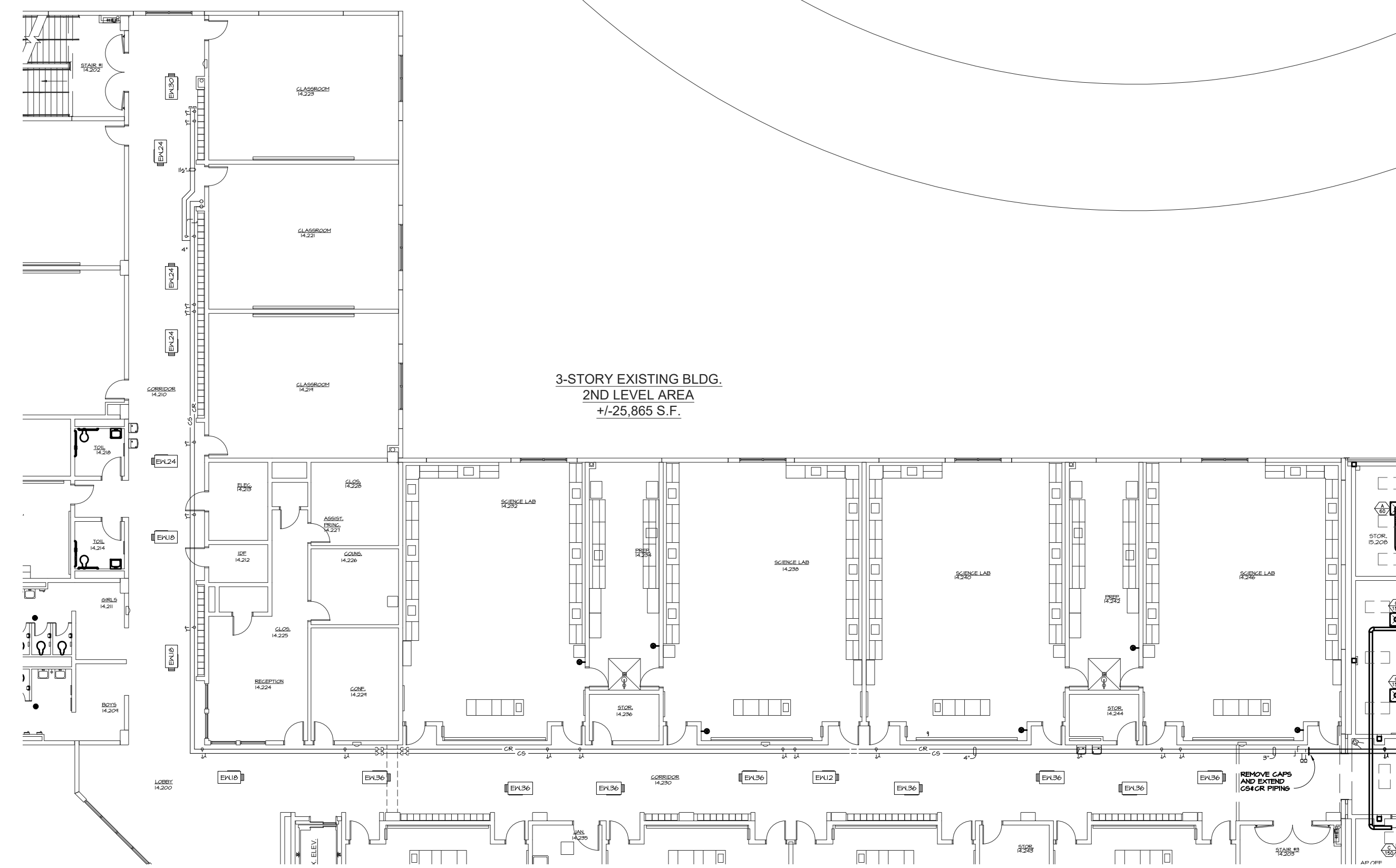
**1 SPRINKLER ZONE MAP**  
P3.2 NO SCALE - SCHEMATIC ONLY



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 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
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5 THIRD LEVEL PART. FLOOR PLAN - HVAC  
MO.1 1/16"=1'-0"  
SEE M.I.I FOR NOTES



4 SECOND LEVEL PART. FLOOR PLAN - HVAC  
MO.1 1/16"=1'-0"  
SEE M.I.I FOR NOTES

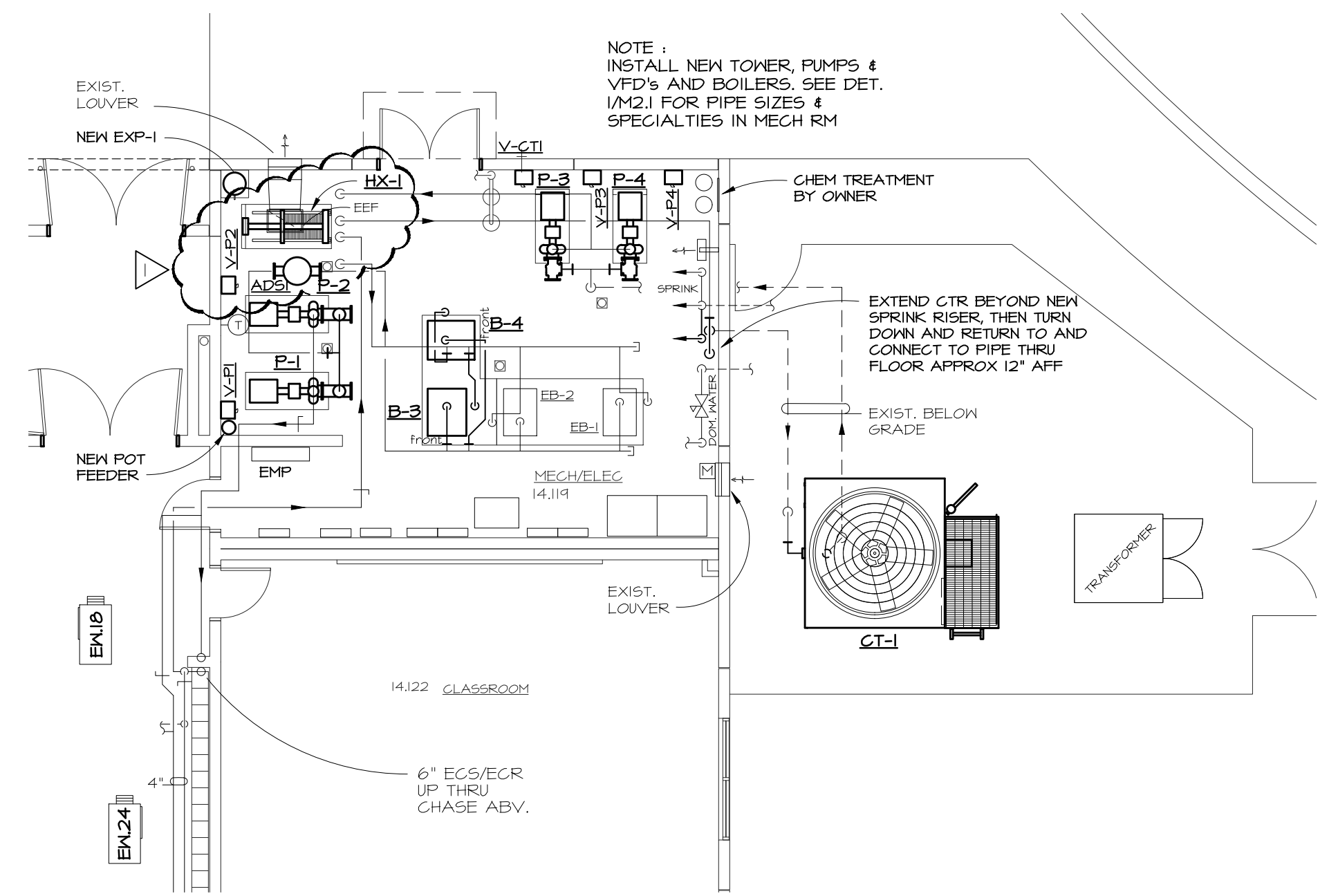


3 MAIN LEVEL PART. FLOOR PLAN - HVAC  
MO.1 1/16"=1'-0"  
SEE M.I.I FOR NOTES

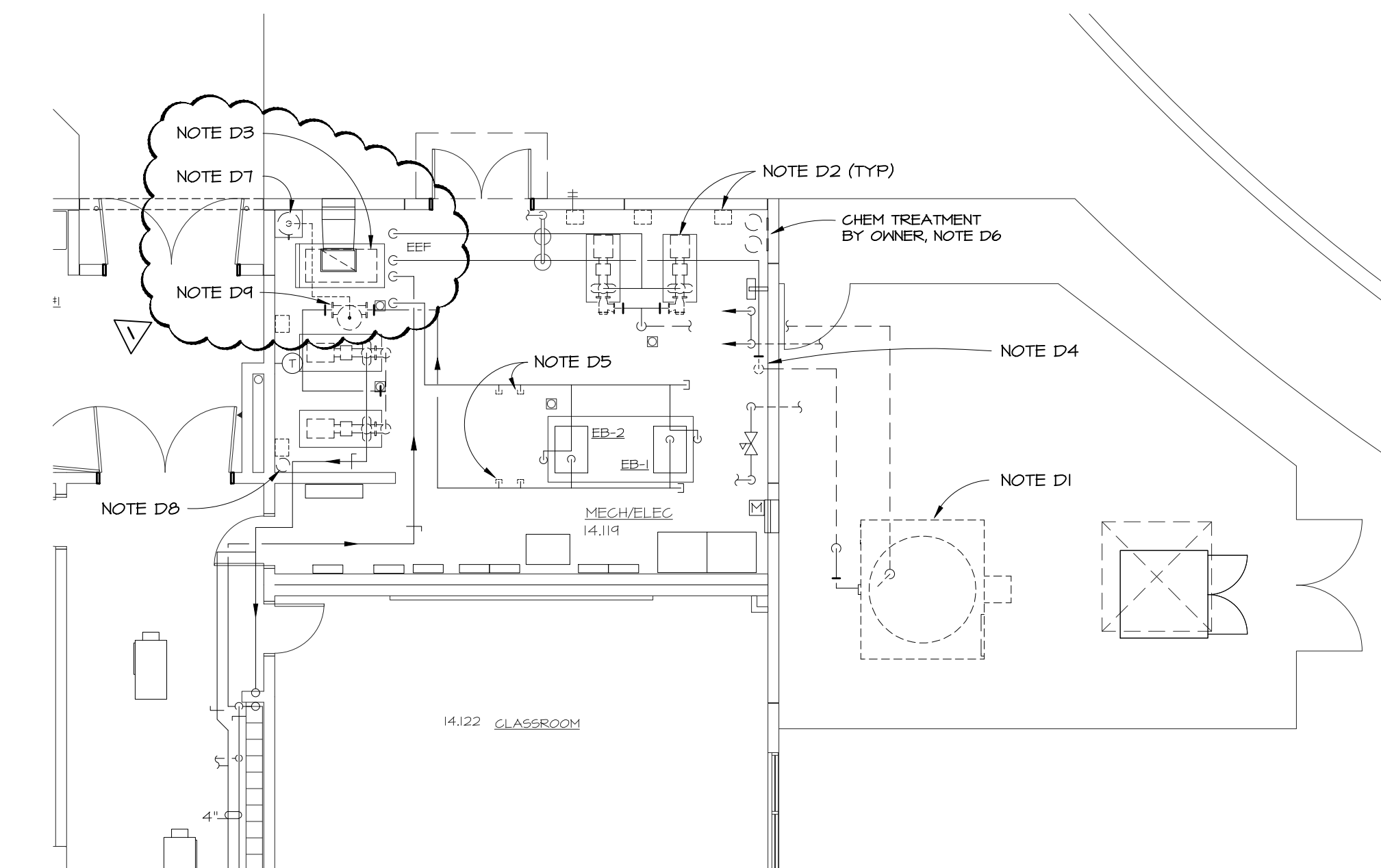
3-STORY EXISTING BLDG.  
2ND LEVEL AREA  
±25,885 S.F.

- GENERAL DEMOLITION NOTES: (1/MO.1 ONLY)**
- DA. GENERALLY ITEMS SHOWN DASHED ARE TO BE REMOVED AND ITEMS SHOWN WITH SOLID LINE ARE TO REMAIN.
  - DB. WHERE CONTROL DEVICES ARE REMOVED & NOT REPLACED, COVER HOLE WITH STAINLESS STEEL COVER PLATE.
  - DC. WHERE EXISTING EQUIPMENT, DUCT, PIPE, ETC. IS BEING REMOVED AND NOT REPLACED IN SAME LOCATION, REMOVE ALL EXISTING SUPPORT HARDWARE, BRACKETS, STRAPS, ETC..
  - DD. SEE M.I.I-M4.I DRAWINGS FOR NEW WORK PRIOR TO BEGINNING ANY DEMOLITION TO VERIFY WHAT UNITS, DUCTWORK, PIPING, ETC IS TO REMAIN.
  - DE. THE OWNER RESERVES THE RIGHT TO SALVAGE EQUIPMENT OR MATERIALS THAT HAVE BEEN REMOVED.

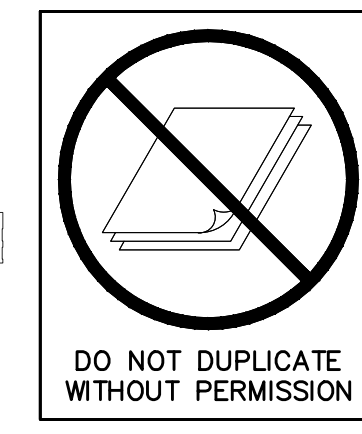
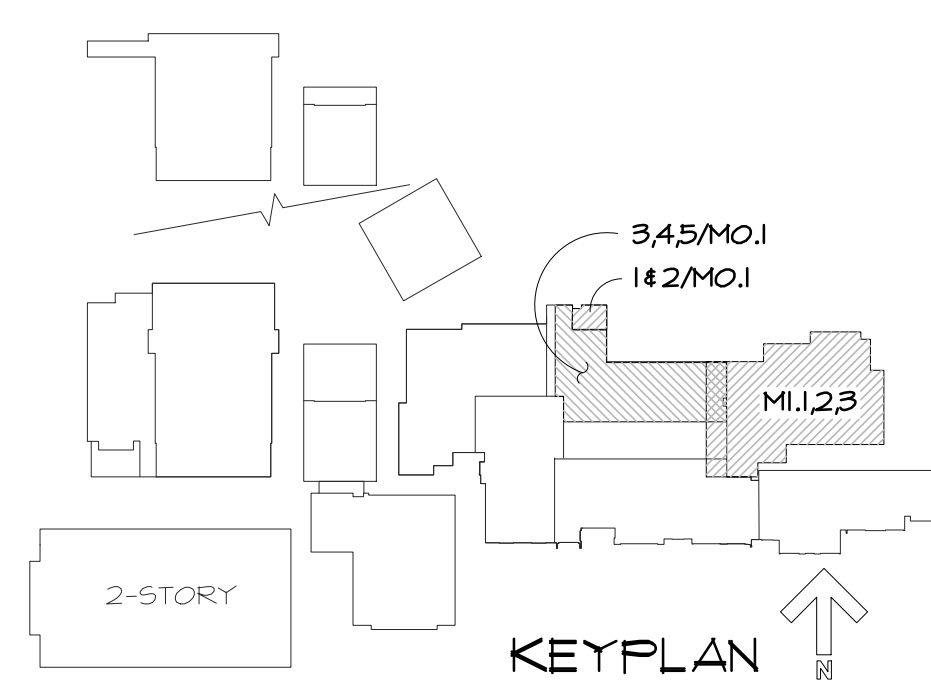
- DEMOLITION REFERENCE NOTES: (1/MO.1 ONLY)**
- D1. REMOVE EXISTING COOLING TOWER AND PORTIONS OF PIPING REQUIRED TO INSTALL NEW COOLING TOWER. SEE 2/MO.1 & 1/M2.1.
  - D2. REMOVE EXISTING PUMPS AND VFD'S. REMOVE PORTIONS OF PIPING REQUIRED TO INSTALL NEW PUMPS. SEE 2/MO.1 & 1/M2.1.
  - D3. REMOVE EXISTING HEAT EXCHANGER AND INSTALL NEW. SEE 2/MO.1 & 1/M2.1.
  - D4. REMOVE PORTION OF CTR. PIPING TO ACCOMMODATE NEW WORK. SEE 2/MO.1.
  - D5. REMOVE CAPS FROM STUB-OUTS FOR CONNECTION OF NEW BOILERS. SEE 2/MO.1.
  - D6. REMOVE EXISTING WATER TREATMENT SYSTEM, BACKBOARD AND COMPONENTS. KEEP SPACE CLEAR FOR INSTALLATION OF NEW BY OWNER.
  - D7. REMOVE EXISTING EXPANSION TANK.
  - D8. REMOVE EXISTING POT FEEDER.
  - D9. REMOVE EXISTING AIR SEPARATOR AND PIPING TO FACILITATE INSTALLATION OF NEW. SEE 2/MO.1 & 1/M2.1.



2 MAIN LEVEL PART. FLOOR PLAN - HVAC  
MO.1 1/8"=1'-0"  
SEE M.I.I FOR NOTES



1 MAIN LEVEL PART. FLOOR PLAN - HVAC DEMO.  
MO.1 1/8"=1'-0"



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consulting engineers  
2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
P: 404.633.0245 | F: 404.633.1756  
84 JOB NO. 212

REGISTERED PROFESSIONAL ENGINEER  
MICHAEL W. DILLON  
No. 2102

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
12/21/2021	ADDENDUM NO. 3	
1/28/2022	CONFORMED SET	1

FACILITY CODE 661-4596  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 JOB NO. SHL-DO1-21  
 DATE: MARCH 1, 2021  
 DWG. BY: M.W.D.  
 CK. BY: M.W.D.

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MO.1



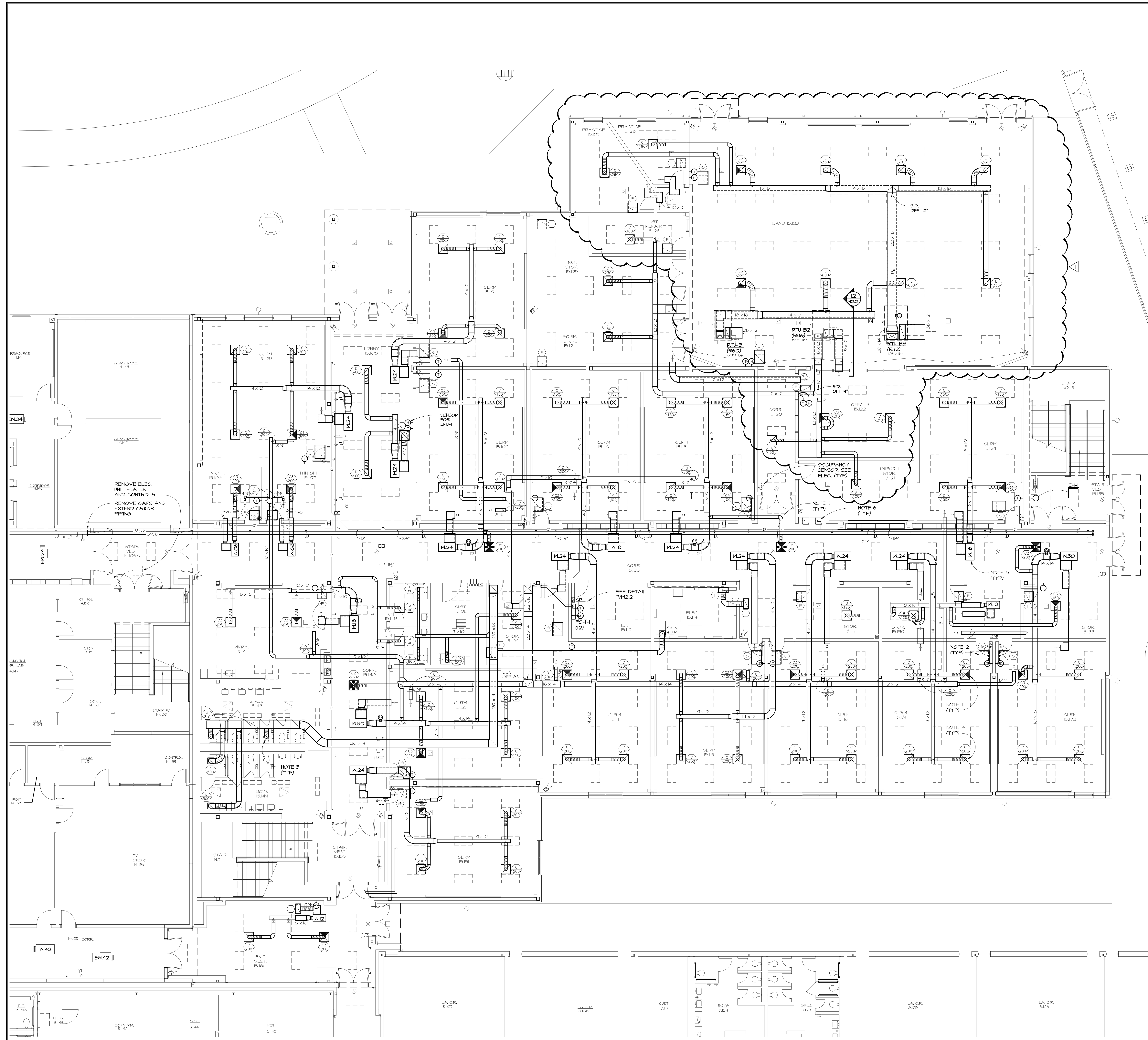
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NORTH GWINNETT HIGH SCHOOL  
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CHK. BY: M.J.D.

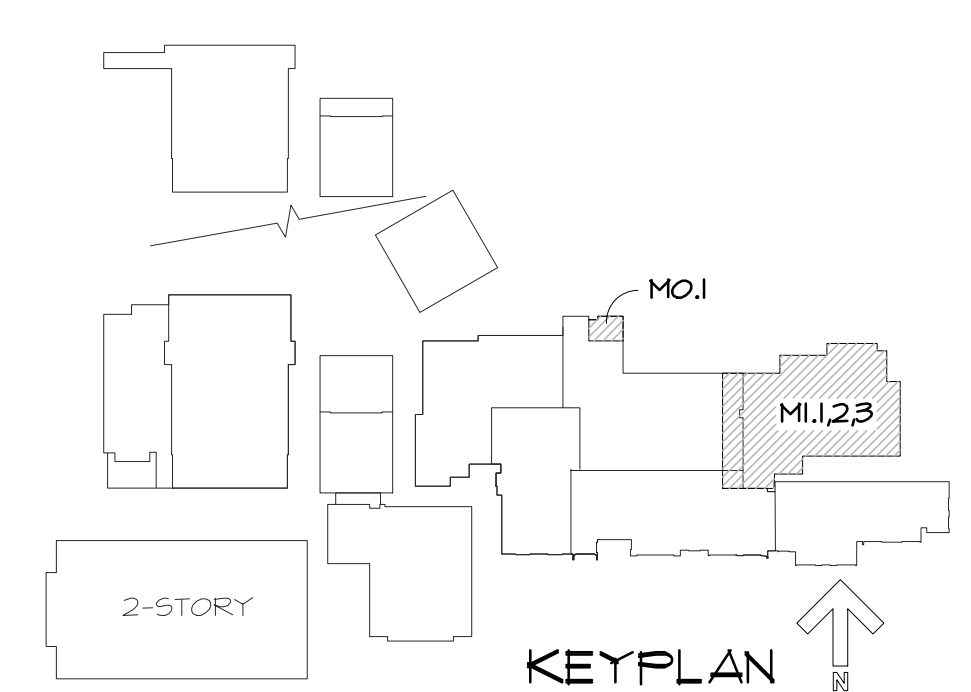


**GENERAL NOTES: (ALL SHEETS)**

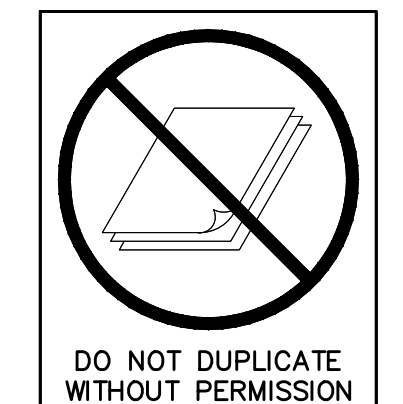
- A. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF EXISTING CONDITIONS FROM THAT SHOWN ON PLANS OR OF ANY CONDITION PROHIBITING WORK TO BE INSTALLED AS SHOWN ON PLANS BEFORE WORK IS BEGUN.
- B. ALL PENETRATIONS THROUGH FIRE WALLS AND RATED FLOOR SLABS SHALL BE FIRE STOPPED WITH 3M FIRE BARRIER OR EQUAL PRODUCT MEETING UL 1414 OR ASTM E814 FIRE RATINGS IN ACCORDANCE WITH ARTICLE 300-21 OF THE NATIONAL ELECTRICAL CODE.
- C. ALL AREAS OF THE BUILDING HAVE RETURN AIR PLENUMS ABOVE CEILING. ALL MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- D. WHERE DUCT LINER IS INDICATED ON THE DRAWINGS THE DUCT SIZES SHOWN ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS AFTER THE LINER IS INSTALLED. INCREASE THE SIZE OF THE METAL DUCT TO ALLOW FOR THE LINER.
- E. CONTRACTOR SHALL PROTECT THE OWNER'S EQUIPMENT FROM DUST, DEBRIS AND DAMAGE AT ALL TIMES DURING THE CONSTRUCTION PROCESS.
- F. WHERE MATERIAL OR OBJECTS ARE REMOVED, RELOCATED OR MODIFIED, CONTRACTOR SHALL PATCH OR REPAIR DAMAGED SURFACE FROM WHICH THE ITEM WAS REMOVED, RELOCATED OR MODIFIED TO MATCH THE ADJACENT MATERIAL OR FINISH.
- G. THE CONTRACTOR SHALL REMOVE EXISTING CEILING TILES, GRID AND/OR LIGHTS AS NECESSARY TO INSTALL WORK SHOWN ON THE DRAWINGS AND THEN REPLACE THEM WHEN THE WORK IS COMPLETE. ANY ITEMS BROKEN BY THE CONTRACTOR SHALL BE REPLACED WITH NEW ITEMS THAT MATCH EXISTING. IF NEW TILES DO NOT MATCH EXISTING THE CONTRACTOR SHALL INSTALL ALL NEW TILES IN ONE OR MORE ROOMS AND USE THE OLD TILES FOR REPLACEMENT THROUGHOUT THE BUILDING.
- H. WHERE CONTROL DEVICES ARE REMOVED & NOT REPLACED, COVER HOLE WITH STAINLESS STEEL COVER PLATE.
- I. DURING PIPING SYSTEM CLEANING AND FLUSHING PROCEDURE, CLEAN STRAINERS AT ALL EXISTING WATER SOURCE HEAT PUMPS SERVED ON SAME LOOP PIPING AS THOSE UNITS BEING REPLACED. SEE MO.1 FOR ADDITIONAL EXISTING WHP UNITS.
- J. SEE ELECTRICAL LIGHTING PLANS FOR LOCATION AND QUANTITY OF OCCUPANCY SENSORS.
- K. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING OF WORK AND ALTERNATES.

**REFERENCED NOTES: (ALL SHEETS)**

1. SHADED DIFFUSER QUADRANT INDICATES 3-WAY DIFFUSER ORIENTED TO BLOW AWAY FROM SHADED PORTION, TWO SHADES PORTIONS INDICATES 2-WAY THROW. SEE DETAIL 1/M2.2.
2. RETURN AIR SOUND TRAP, TYPICAL ON ALL GRILLES, SEE DETAIL 2/M2.2.
3. DUCT TO PLENUM CONNECTION, SEE DETAIL 3/M2.2.
4. INSTALL FLEX SUPPORT, TYPICAL ON DIFFUSERS AND GRILLES. SEE DETAIL 4/M2.2.
5. INSTALL WHP, SEE DETAILS 3-7/M2.1.
6. P-TRAP ABOVE CEILING, SEE DETAIL 8/M2.1.
7. INSTALL SMOKE DAMPER IN NECK OF AIR DISTRIBUTION DEVICE.
8. INSTALL LINED RETURN AIR TRANSFER DUCT ABOVE CEILING, SEE DETAIL 6/M2.2.
9. DROP COLLECTIVE CONDENSATE DRAIN THRU CEILING (PROVIDE ESCUTCHEON PLATE) AND DISCHARGE INTO MOP BASIN ABOVE OVERFLOW LEVEL. SECURE DRAIN LINE TO WALL.
10. ELECTRONIC SOLENOID TRAP PRIMER FOR FLOOR DRAINS, SEE PLS.6. AND EMS.
11. PRESSURE SENSOR LOCATION, SEE DETAIL 1/M2.1 FOR INSTALLATION INSTRUCTIONS. CONTROLS CONTRACTOR SHALL MARK THE CEILING TO DENOTE ITS LOCATION.



1 MAIN LEVEL ADDITION FLOOR PLAN - HVAC  
M.J. 1/8"=1'-0"



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consulting engineers  
2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
P: 404.633.0245 | F: 404.633.1756  
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1/28/2022	CONFORMED SET	

FACILITY CODE 66T-4596

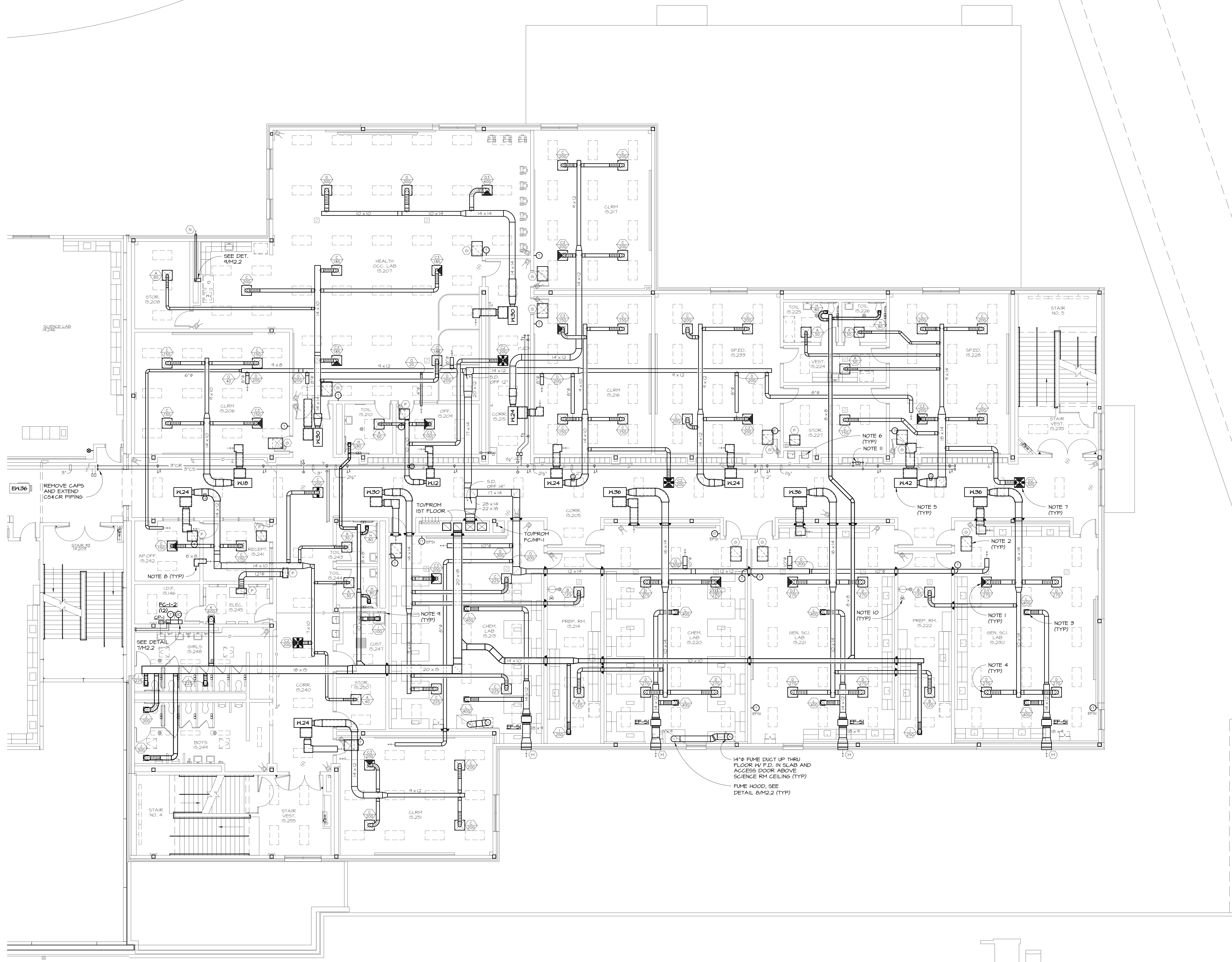
NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

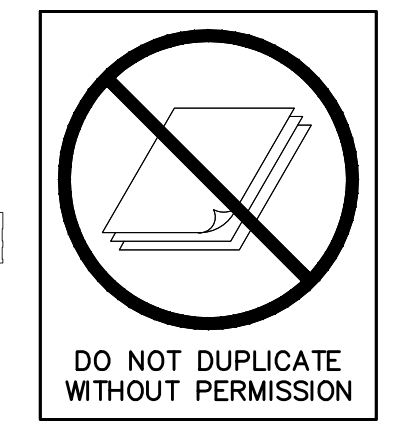
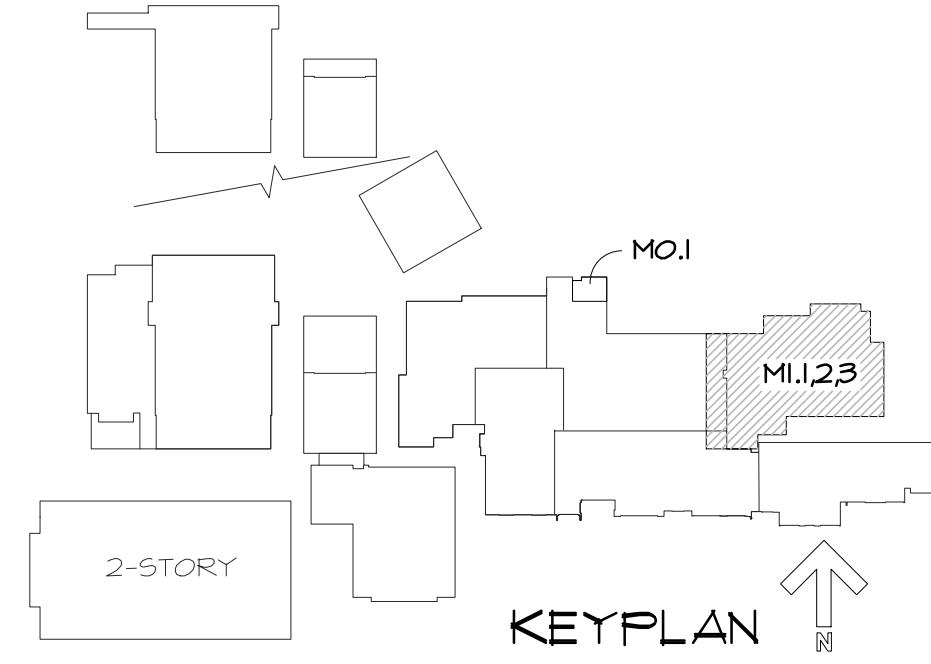
DATE: MARCH 1, 2021  
JOB NO.: SHL-DO1-21  
DWG. BY: MJD  
CHK. BY: MJD

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1 SECOND LEVEL ADDITION FLOOR PLAN - HVAC  
M1.2 1/8"=1'-0"  
SEE M1.1 FOR NOTES



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consulting engineers  
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FACILITY CODE 66T-4596

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

CK. BY  
 M.W.D.

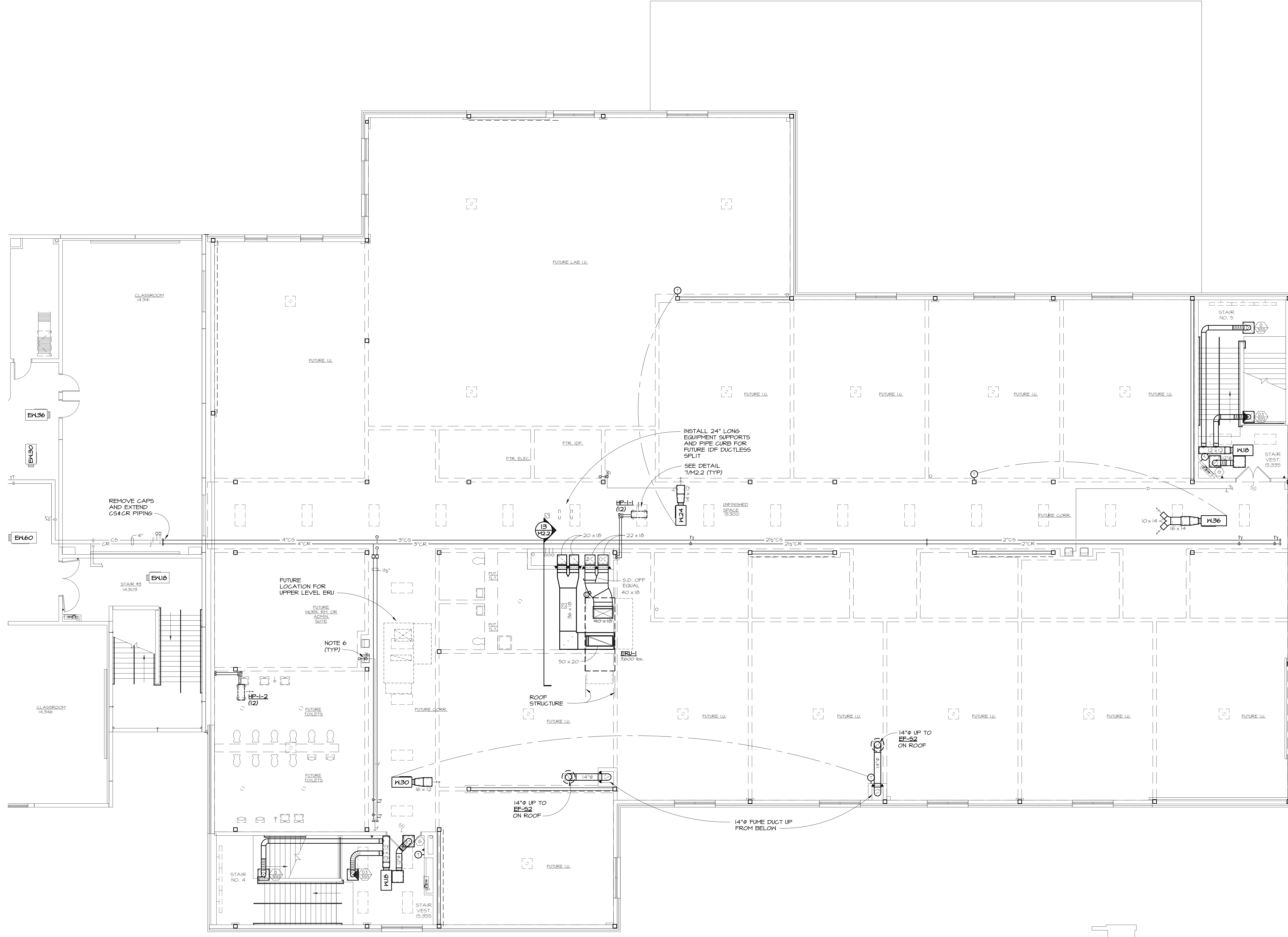
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JOB NO.  
 SHL-DO1-21

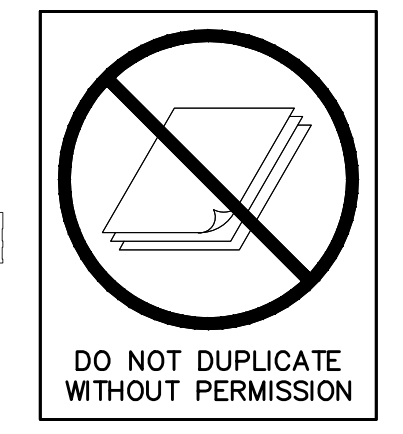
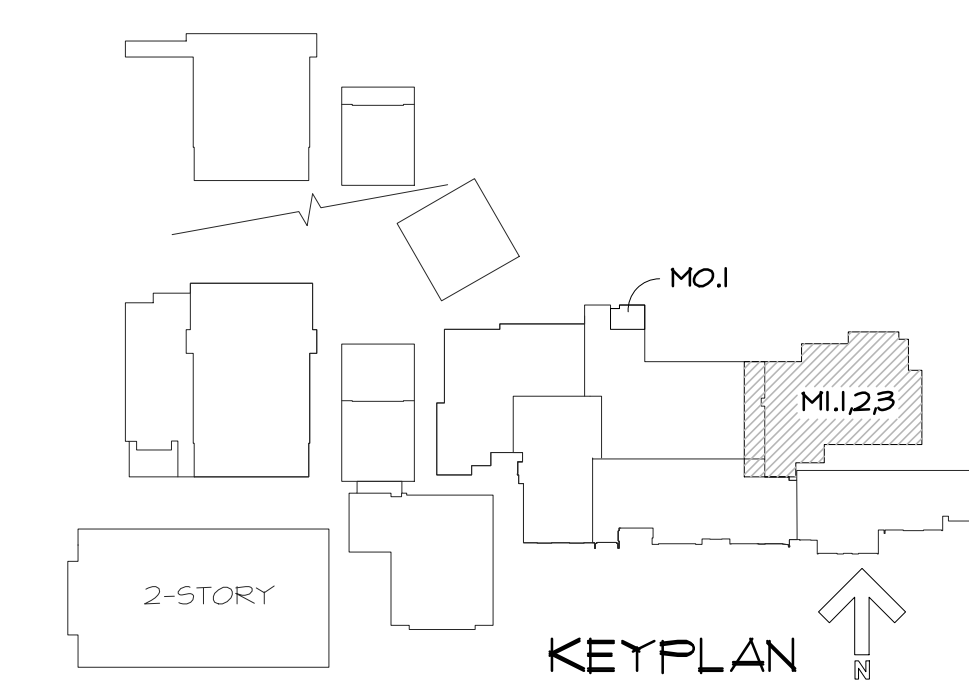
DATE  
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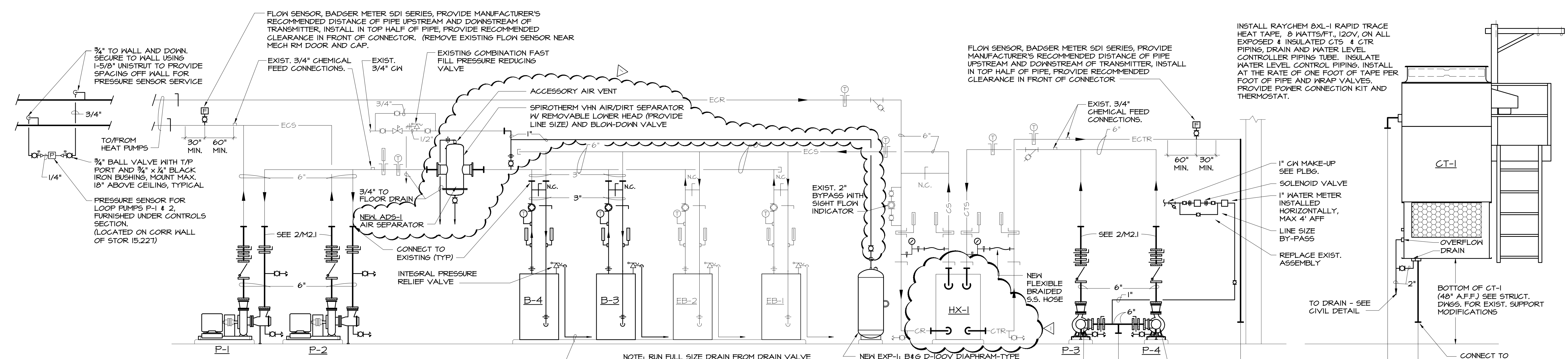
1 THIRD LEVEL ADDITION FLOOR PLAN - HVAC  
 M1.3 1/8"=1'-0"  
 SEE M1.1 FOR NOTES



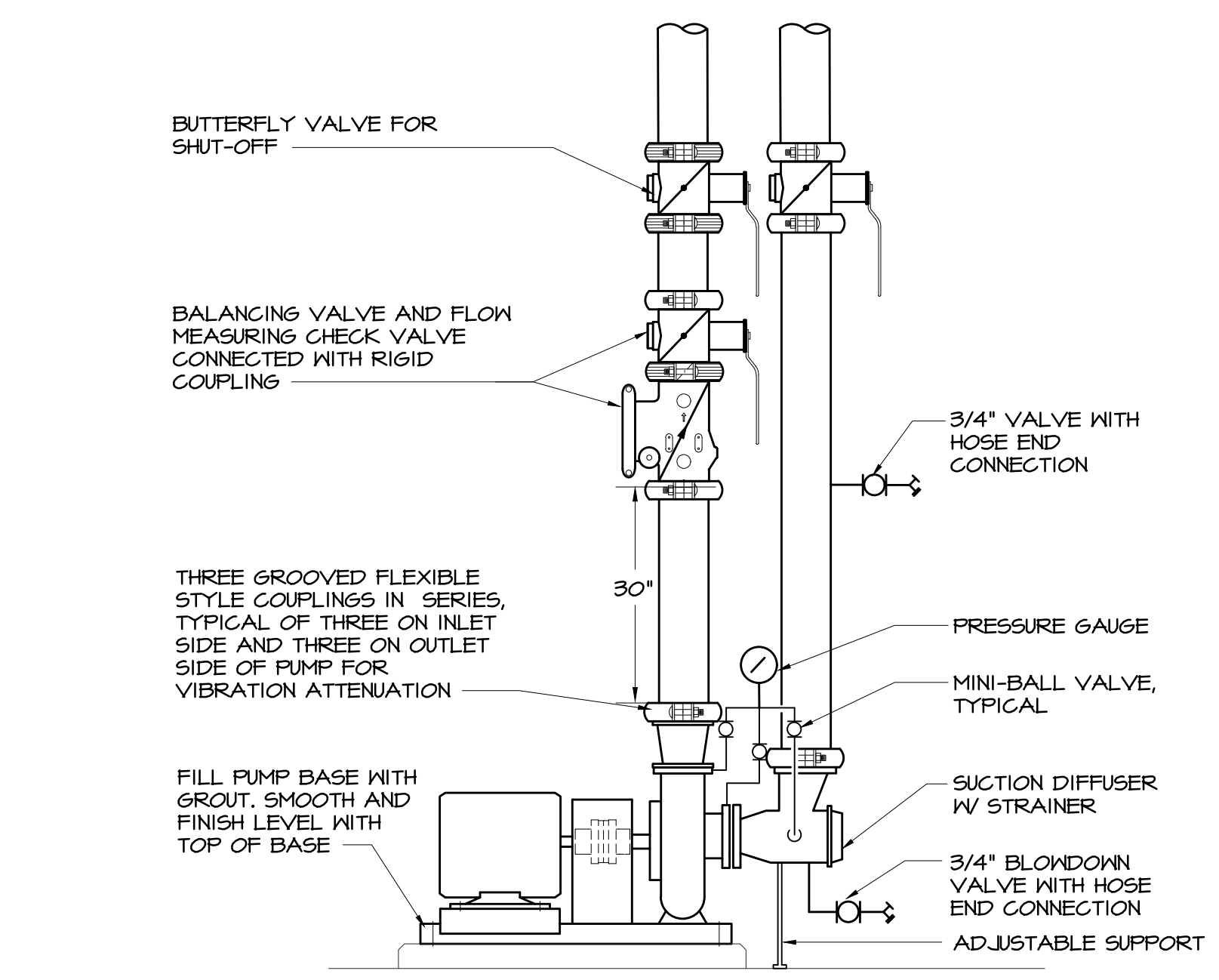
**SPURLOCK & ASSOCIATES, INC.**  
 consulting engineers  
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 &A; JOB NO. 2112

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12/21/2021	ADDENDUM NO. 3	
1/28/2022	CONFORMED SET	

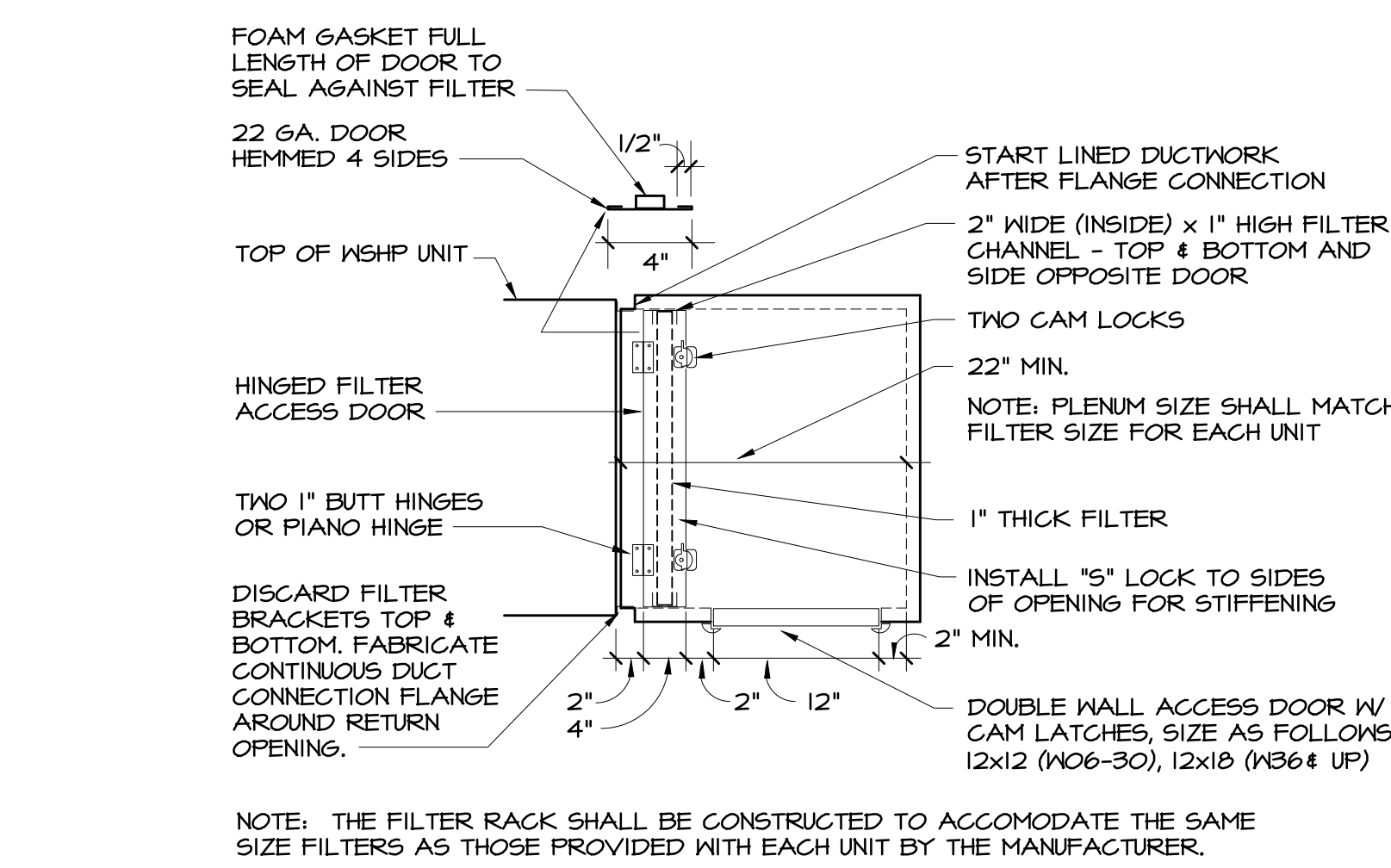
FACILITY CODE 667-4596  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 FOR:  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 JOB NO. SHL-DO1-21  
 DMC BY: M.W.D.  
 CK BY: M.W.D.



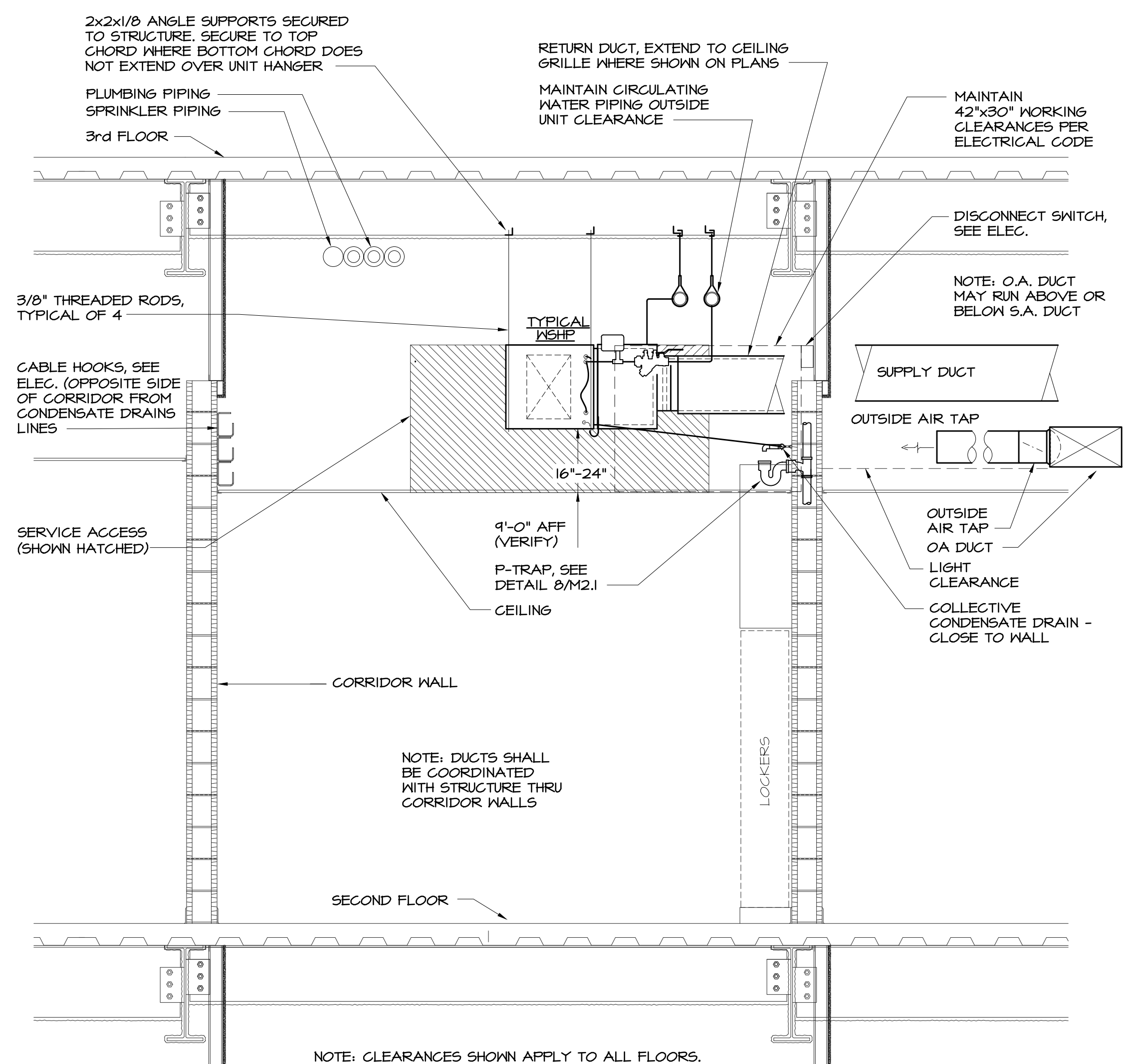
**1 HEAT PUMP SYSTEM FLOW DIAGRAM**  
 M2.1 NO SCALE - SCHEMATIC ONLY



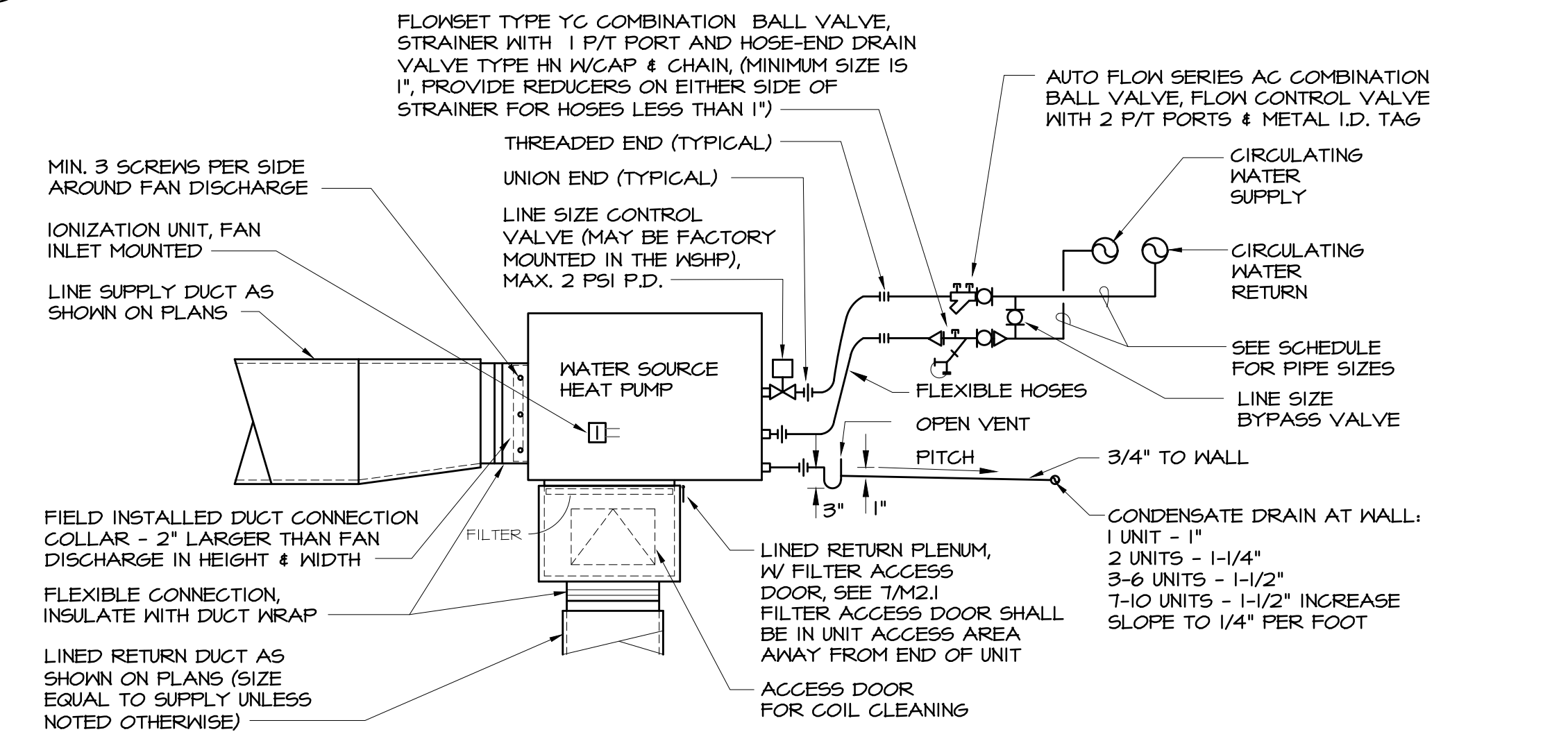
**2 TYPICAL PUMP DETAIL**  
 M2.1 NO SCALE



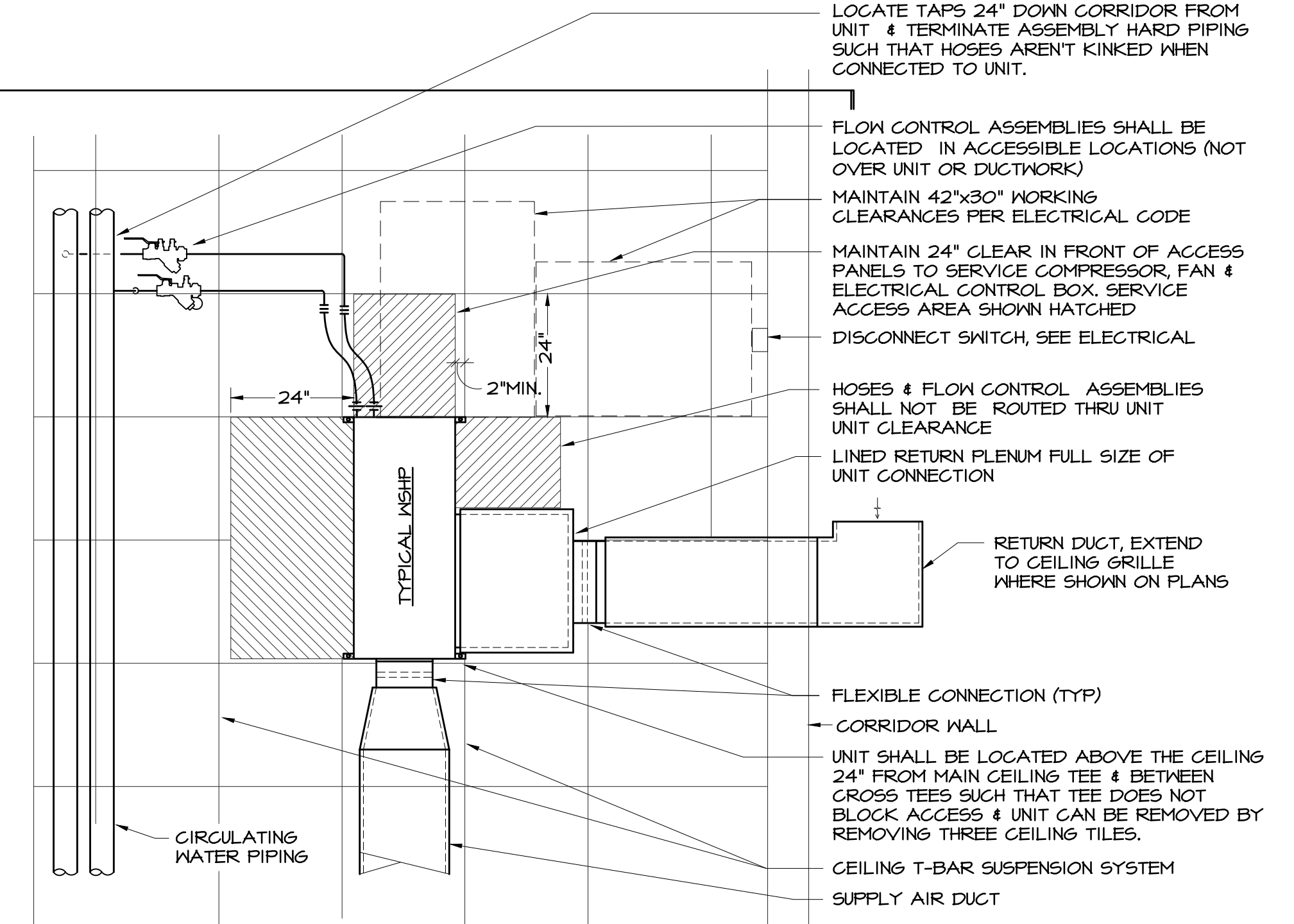
**7 FILTER ACCESS DETAIL**  
 M2.1 1/2"=1'-0"



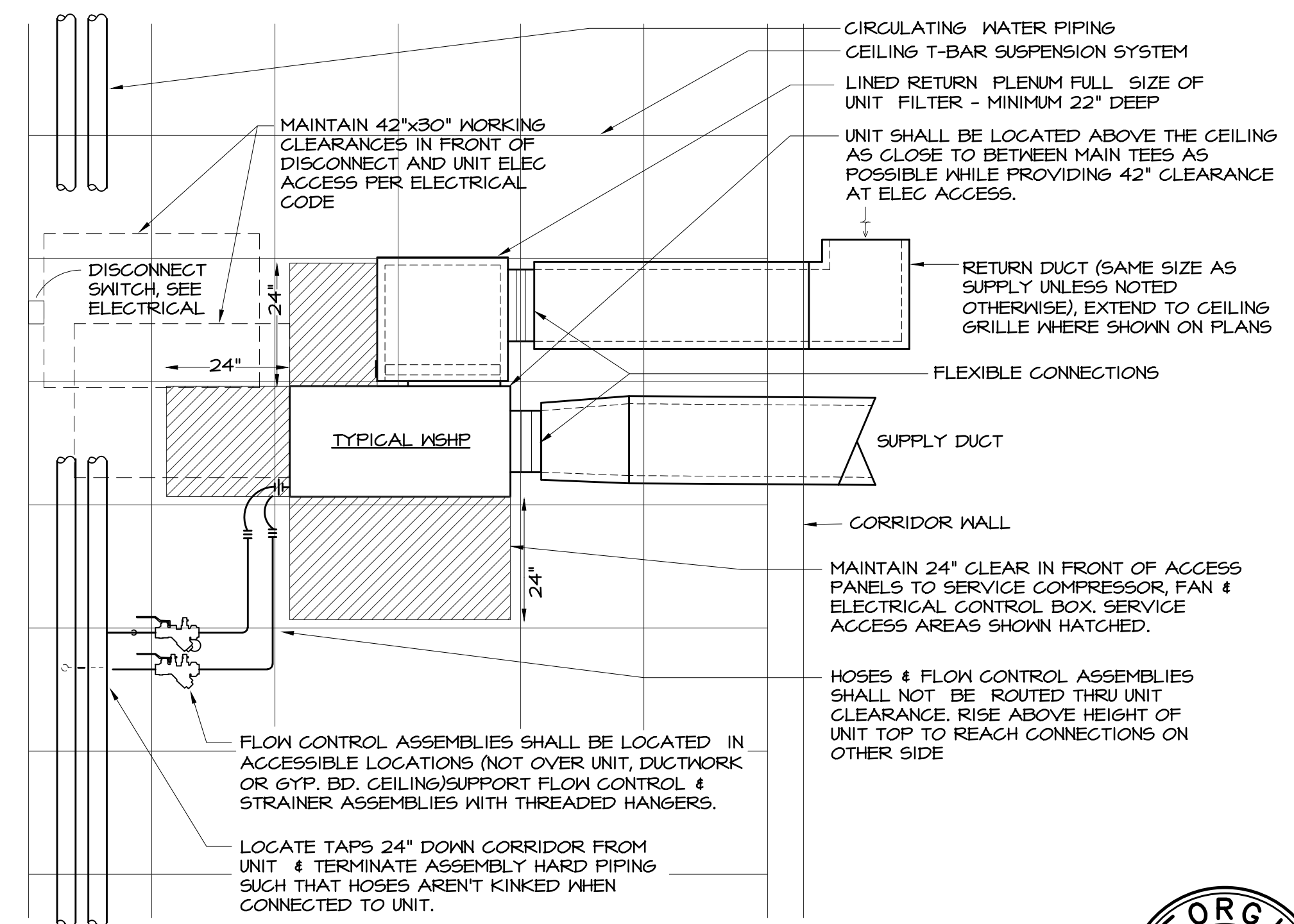
**5 SECTION AT TYPICAL WATER SOURCE HEAT PUMP UNIT**  
 M2.1 1/2"=1'-0"



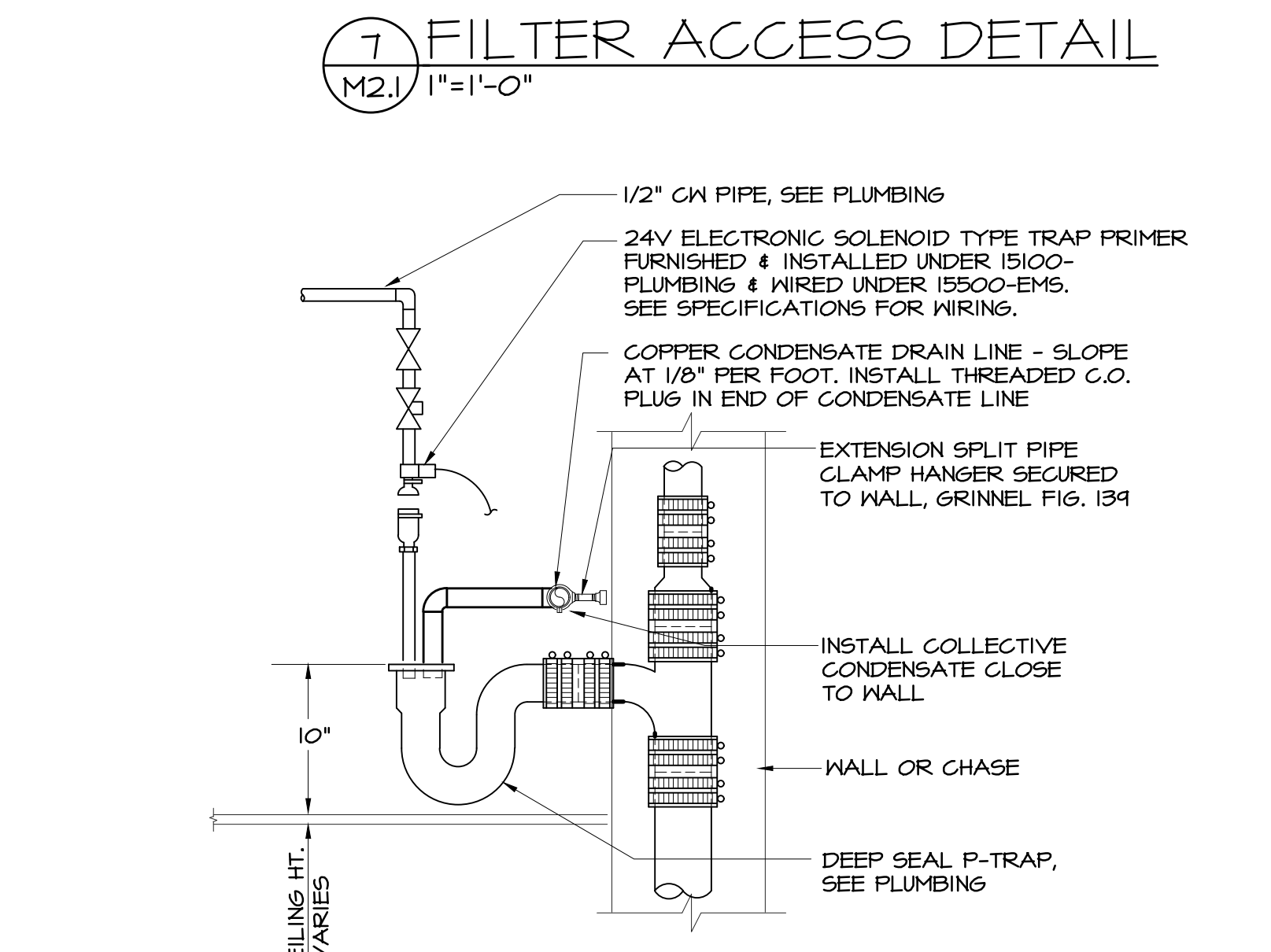
**6 TYPICAL WATER SOURCE HEAT PUMP UNIT PIPING AND DUCT CONNECTION DETAIL**  
 M2.1 NO SCALE - SCHEMATIC ONLY



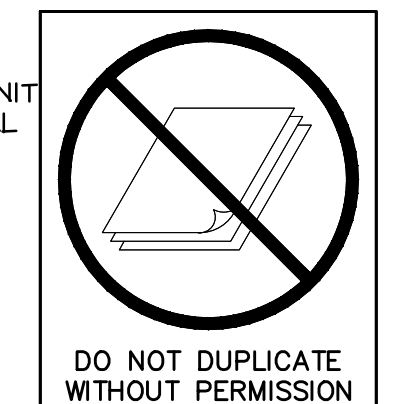
**3 PARTIAL PLAN AT TYPICAL WATER SOURCE HEAT PUMP UNIT**  
 M2.1 1/2"=1'-0"



**4 PARTIAL PLAN AT TYPICAL WATER SOURCE HEAT PUMP UNIT**  
 M2.1 1/2"=1'-0"



**8 CONDENSATE P-TRAP DETAIL**  
 M2.1 NO SCALE



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NORTH GWINNETT HIGH SCHOOL  
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CHK. BY: M.W.D.

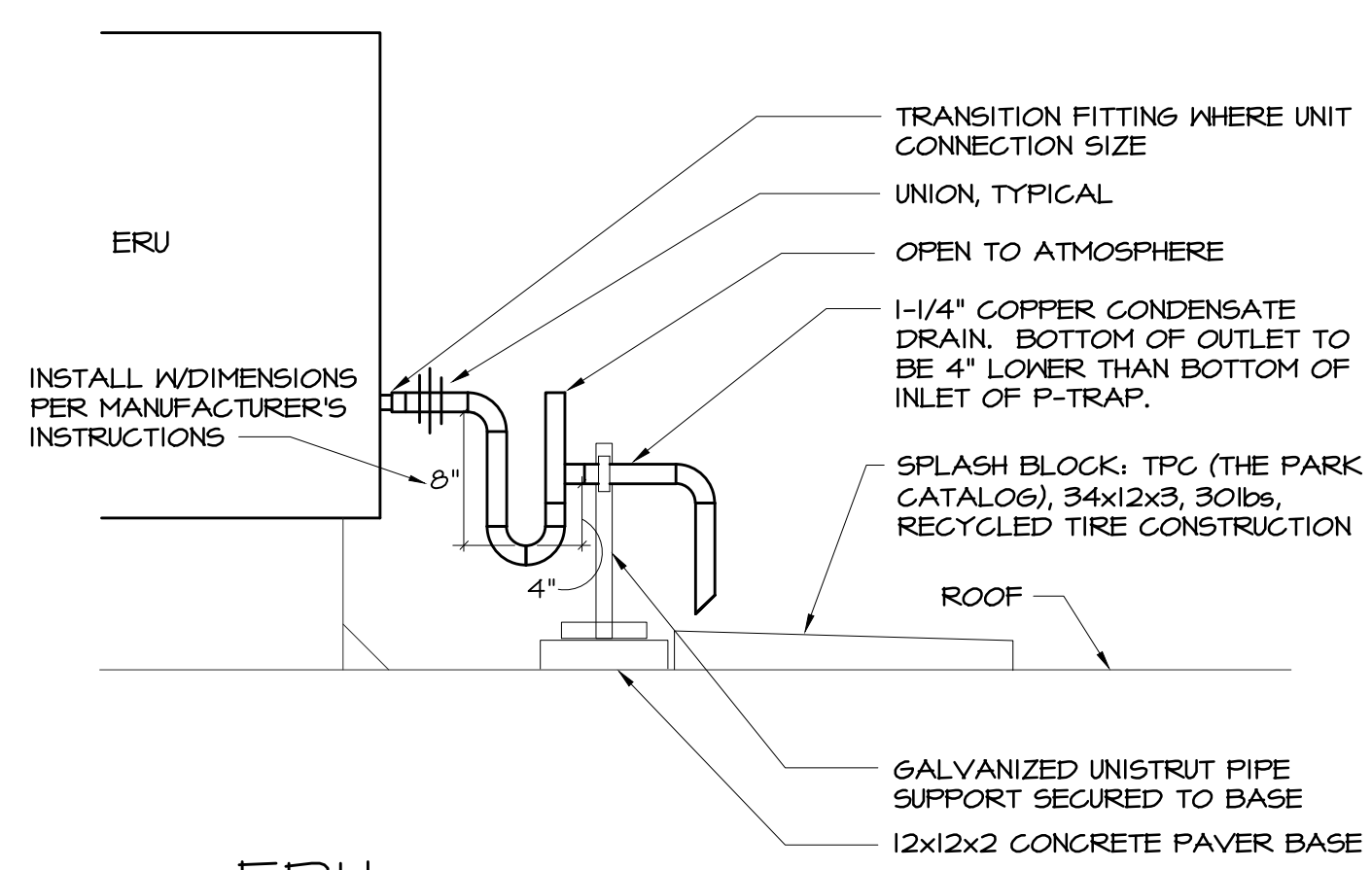
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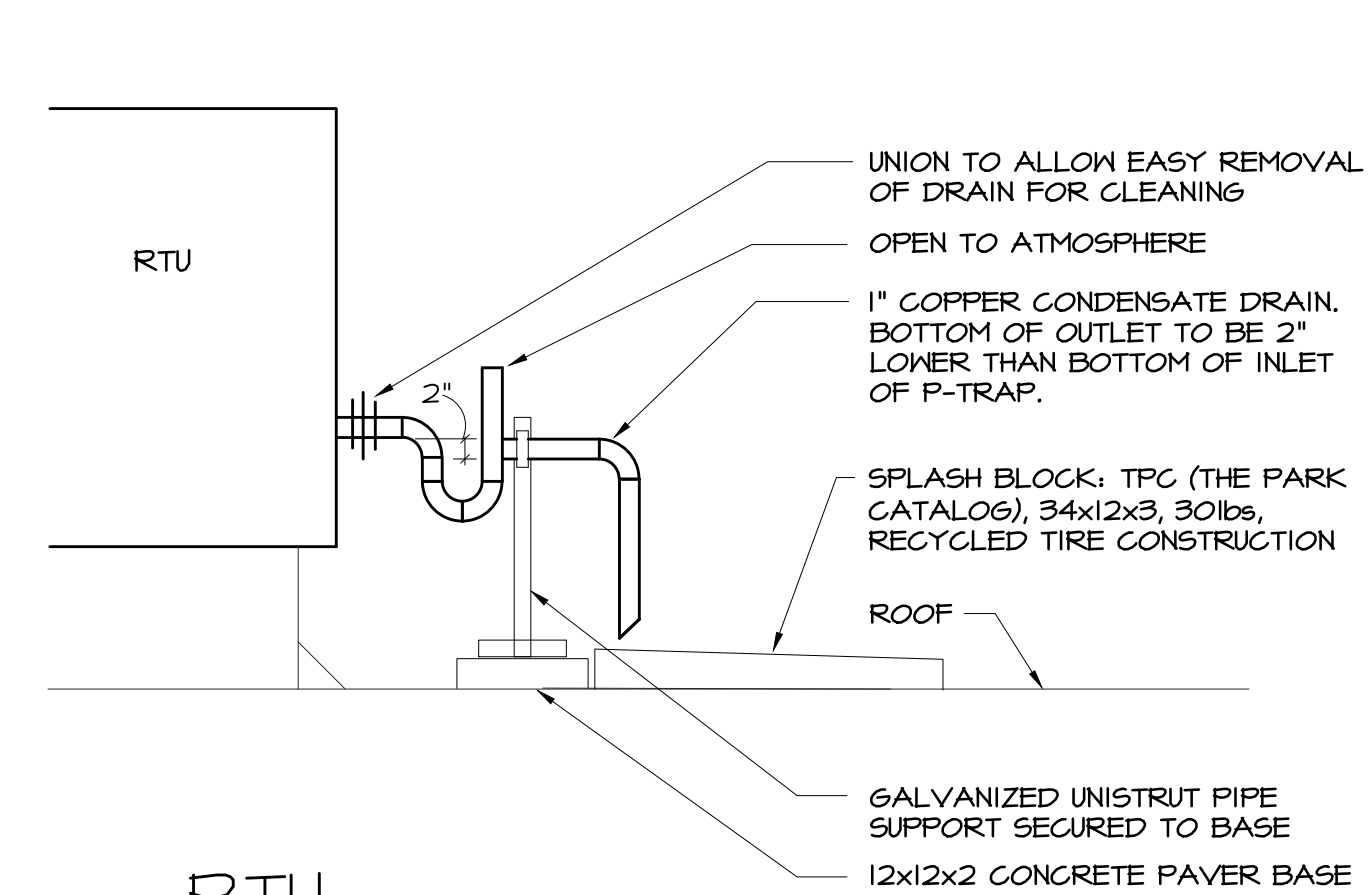
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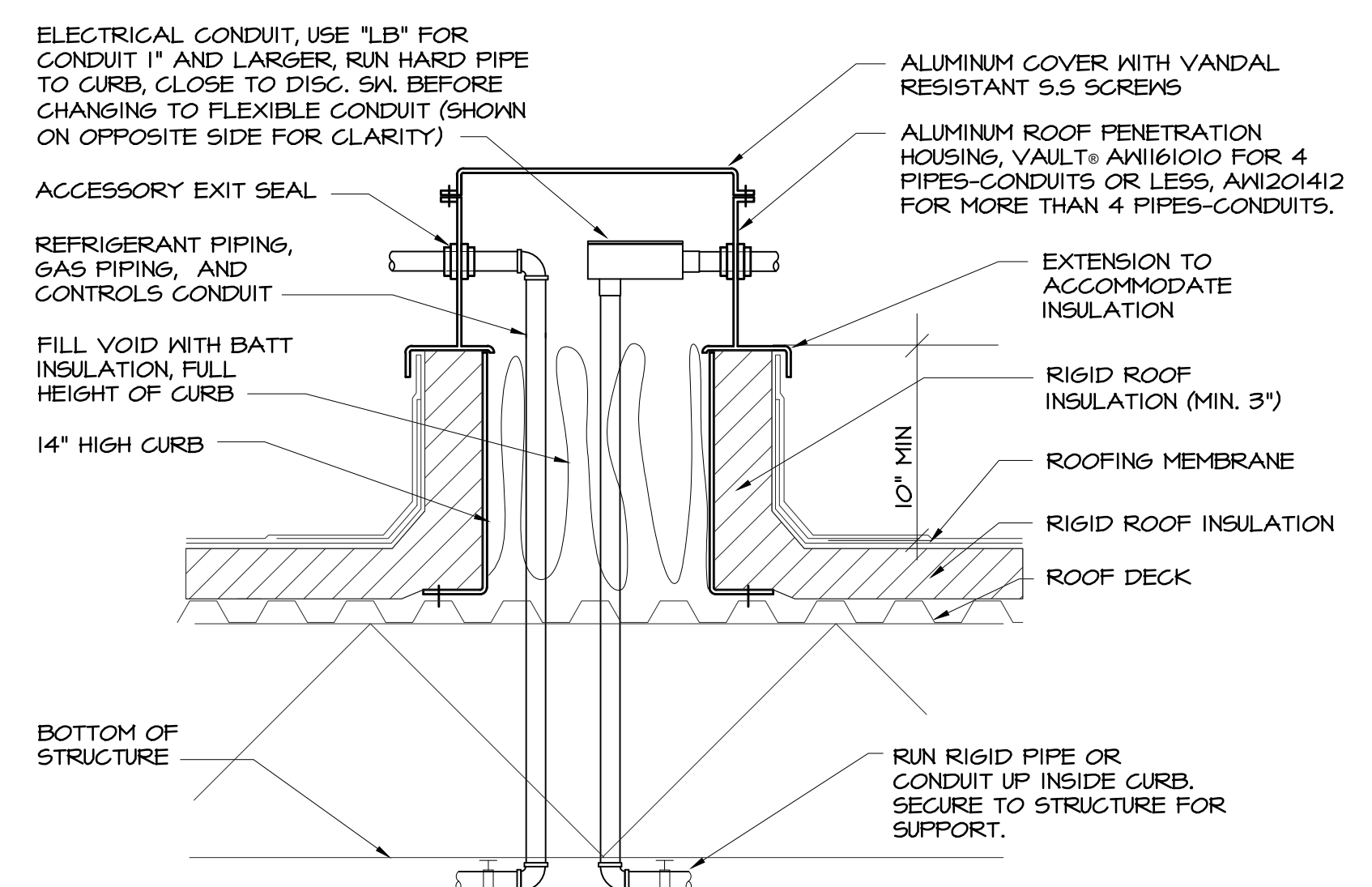
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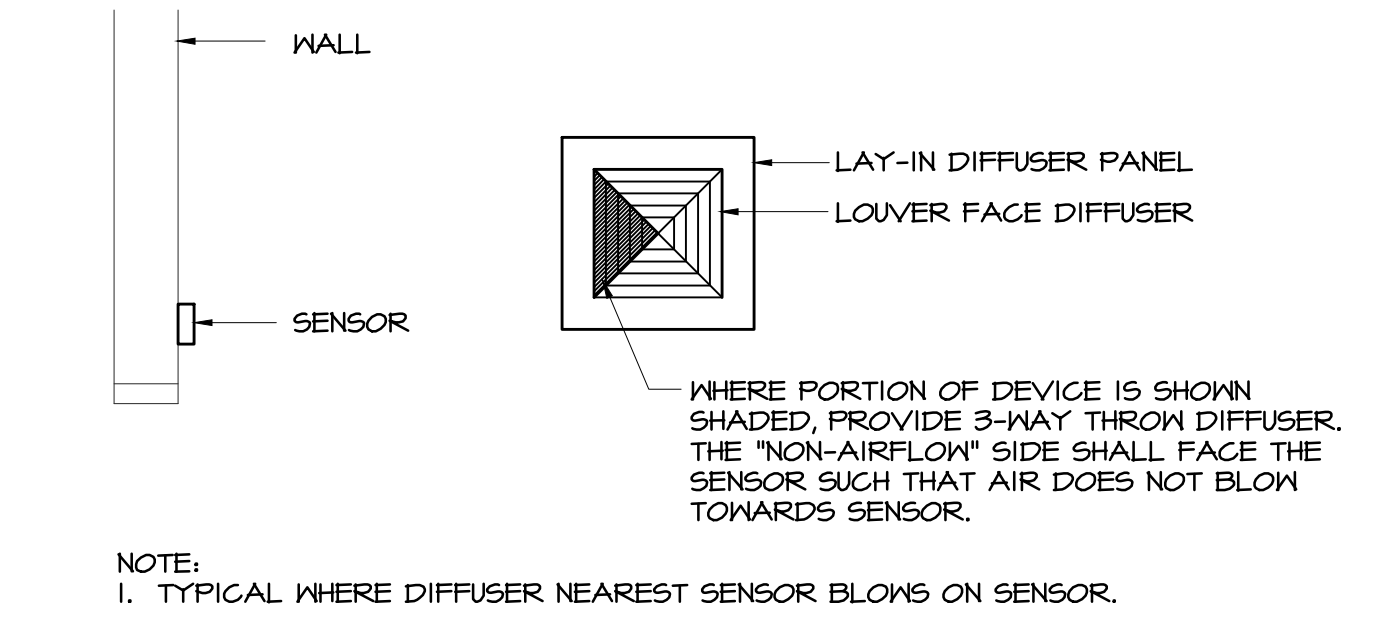
ERU  
11 CONDENSATE DRAIN DETAIL  
M2.2 NOT TO SCALE - SCHEMATIC ONLY



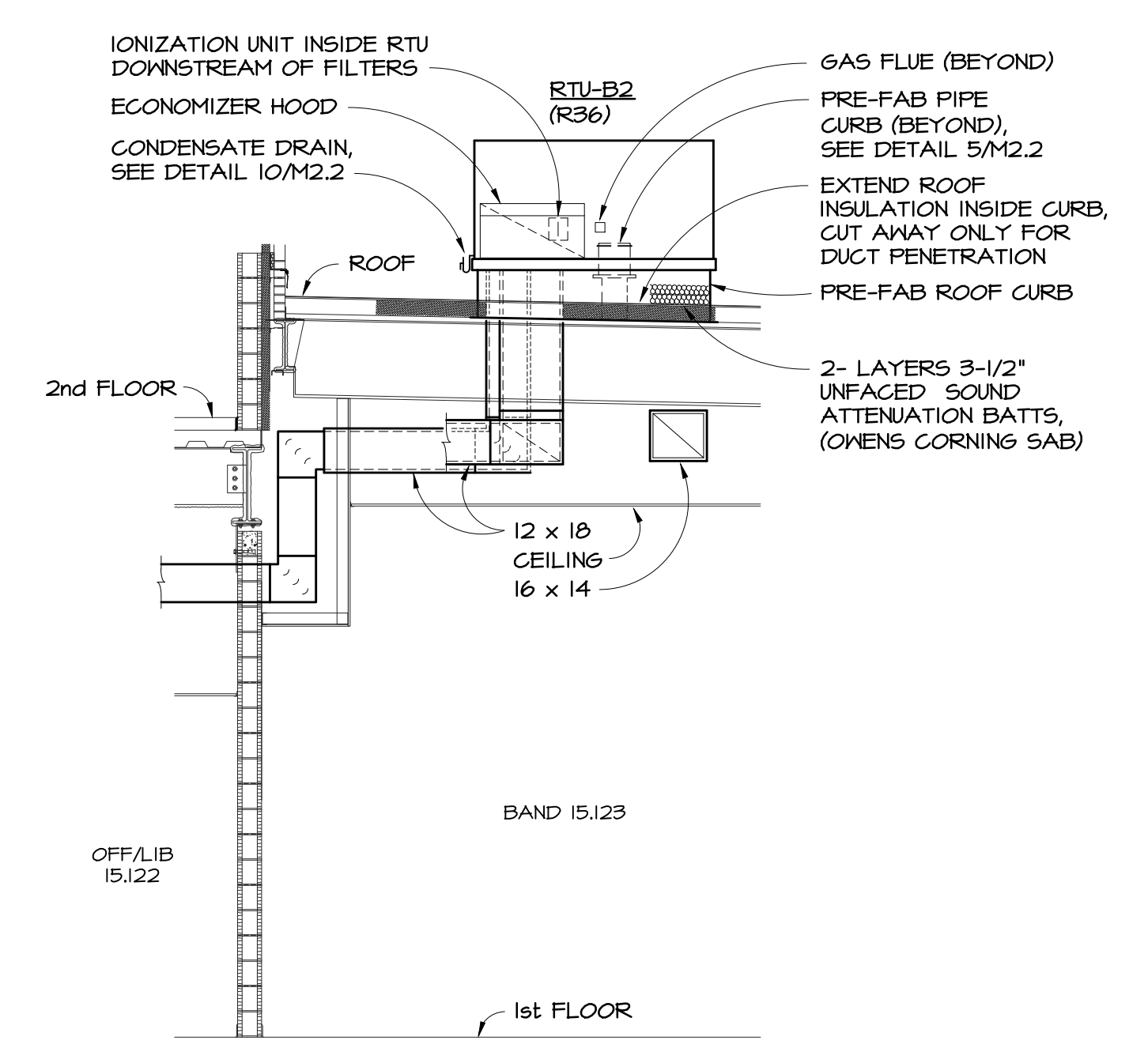
RTU  
10 CONDENSATE DRAIN DETAIL  
M2.2 NOT TO SCALE - SCHEMATIC ONLY



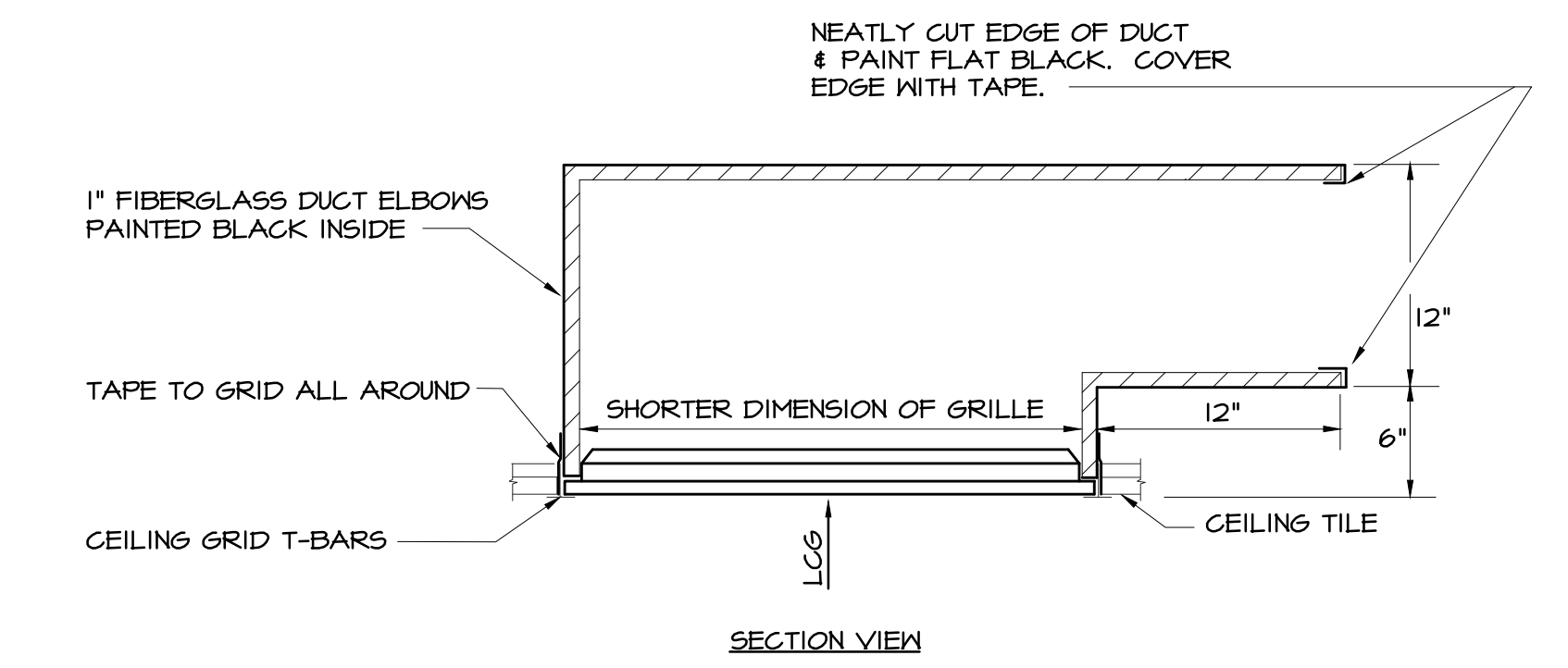
5 PIPE CURB DETAIL  
M2.2 NO SCALE



1 DIFFUSER BLANK-OFF DETAIL  
M2.2 NO SCALE

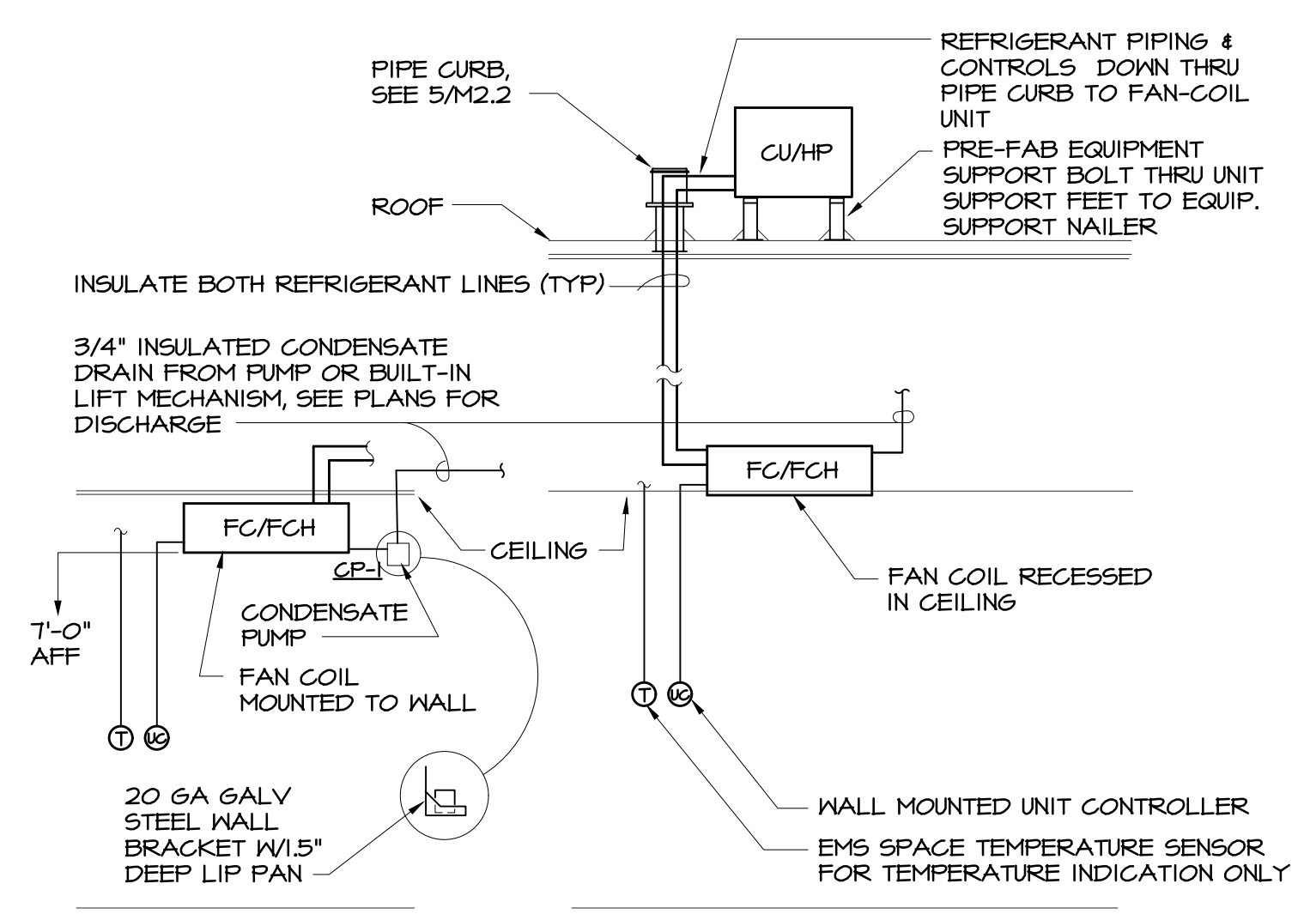


6 RETURN AIR TRANSFER DUCT DETAIL  
M2.2 NO SCALE - SCHEMATIC ONLY

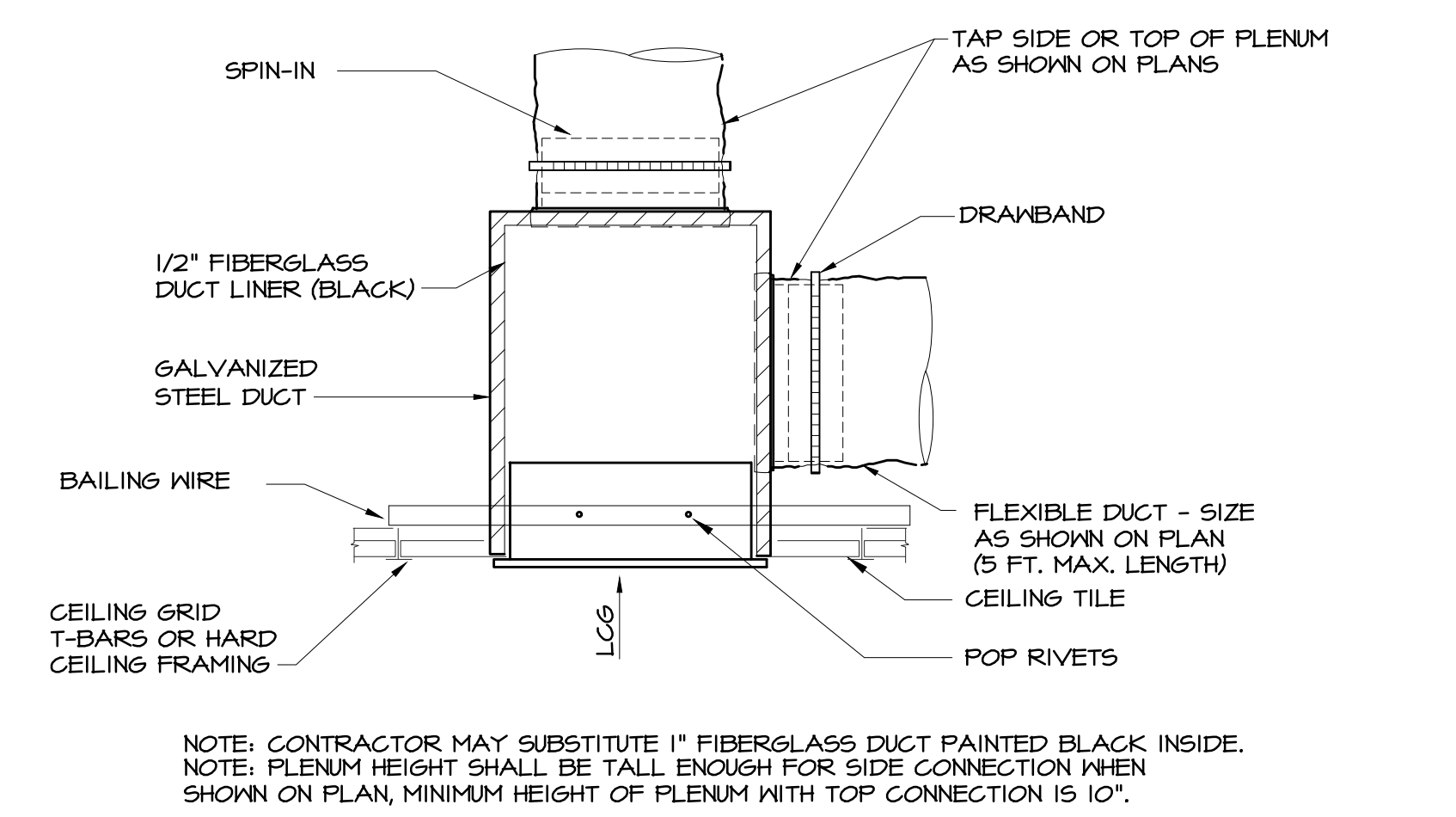


2 LCG RETURN AIR GRILLE SOUNDTRAP DETAIL  
M2.2 NO SCALE

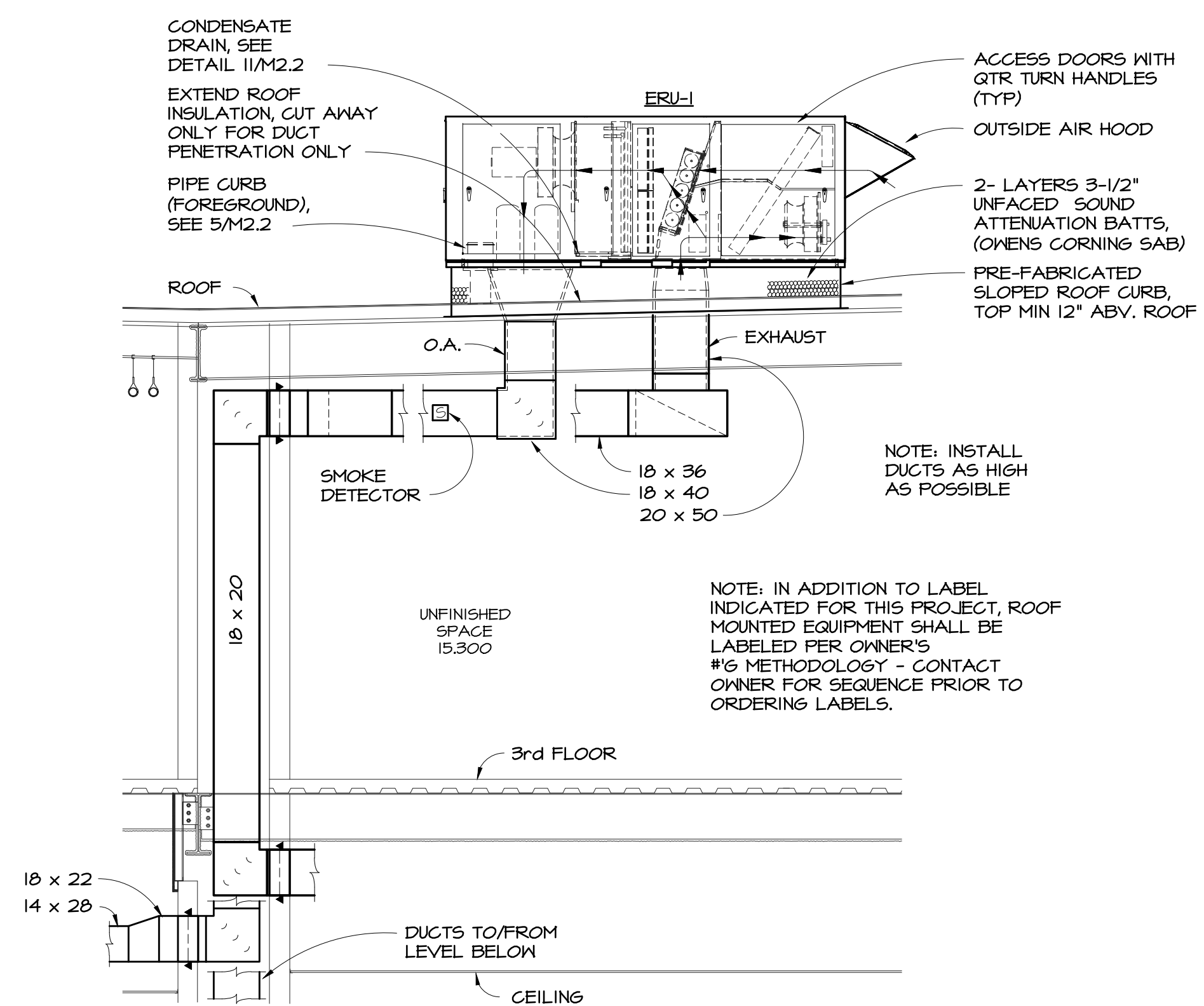
12 SECTION @ RTU-B2  
M2.2 1/4"=1'-0"



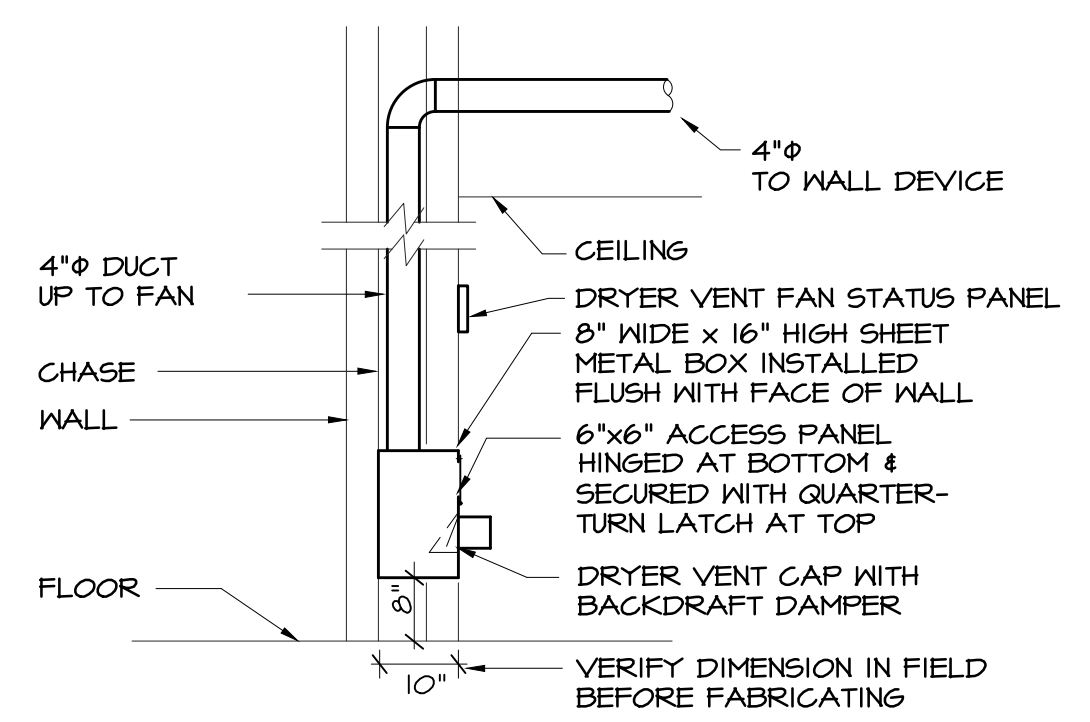
7 TYPICAL DUCTLESS SPLIT AIR CONDITIONING SYSTEMS  
M2.2 NO SCALE



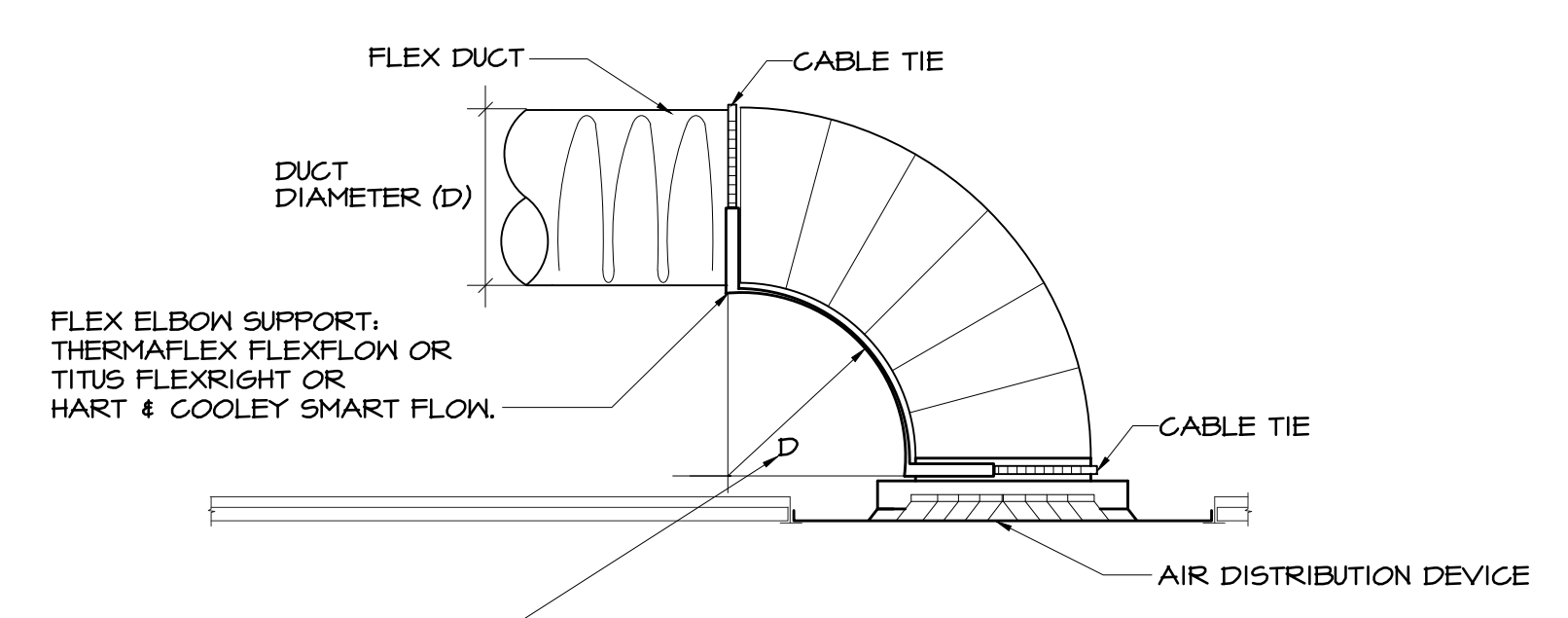
3 LCG, CG, OR PLENUM DETAIL  
M2.2 NO SCALE



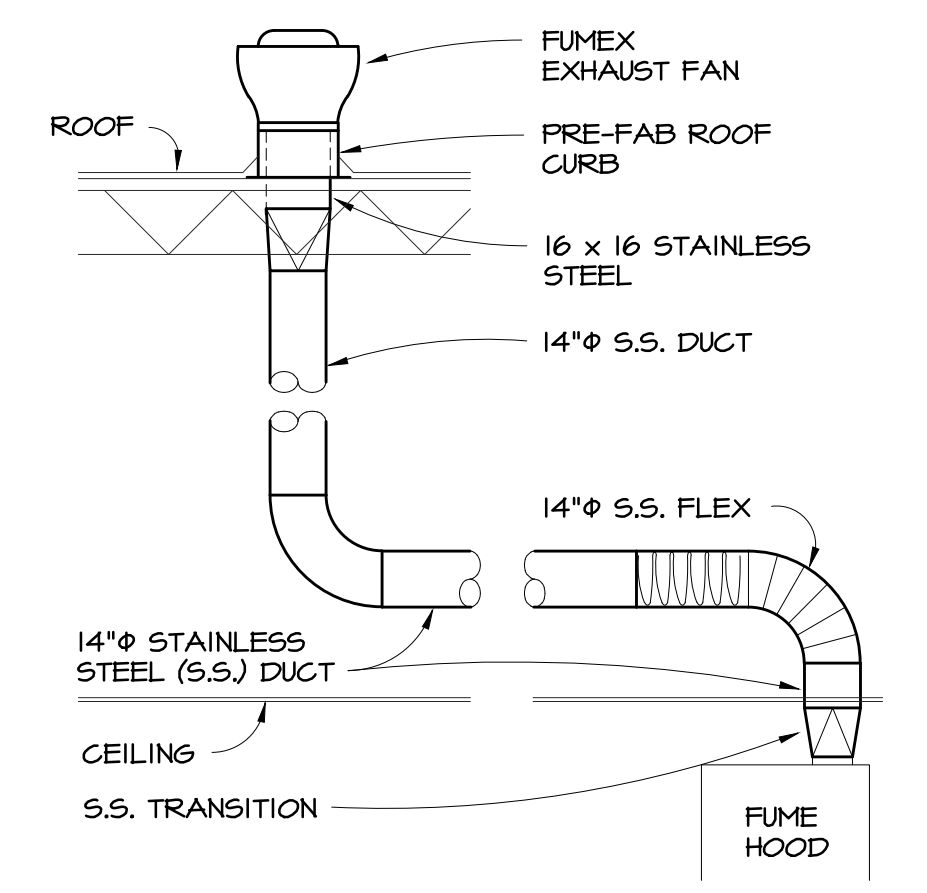
13 SECTION AT ERU-1  
M2.2 1/4"=1'-0"



9 DRYER VENT DETAIL  
M2.2 NO SCALE - SCHEMATIC ONLY



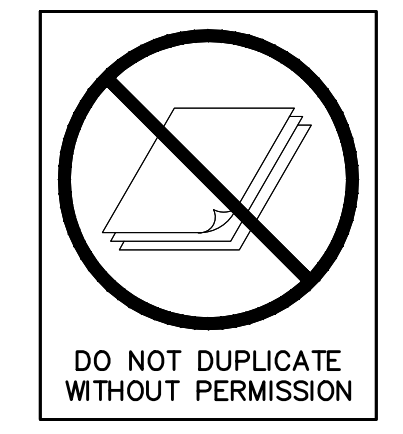
4 FLEX SUPPORT DETAIL  
M2.2 NO SCALE



8 FUME HOOD EXHAUST DETAIL  
M2.2 NO SCALE - SCHEMATIC ONLY

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### HVAC LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DUCT
	RETURN OR EXHAUST DUCT
	RECTANGULAR DUCT UP (SUPPLY SHOWN)
	RECTANGULAR DUCT DOWN (SUPPLY SHOWN)
	DUCTWORK LINED WITH FIBERGLASS DUCT LINER - INSIDE DIMENSION SHOWN
	EXISTING DUCTWORK OR DEVICE TO REMAIN - SIZE REFERENCED FROM ORIG.
	EXISTING DUCTWORK OR DEVICE TO BE REMOVED
	MITERED ELBOW WITH DOUBLE THICKNESS TURNING VANES
	FULL RADIUS ELBOW
	FLEXIBLE CONNECTION
	FLEXIBLE DUCTWORK
	SPIN-IN FITTING WITH SCOOP AND MANUAL DAMPER
	SPIN-IN FITTING WITH MANUAL DAMPER
	SPIN-IN FITTING WITH SCOOP
	ROUND DUCT UP
	ROUND DUCT DOWN
	ACCESS PANEL (AP) OR ACCESS DOOR (AD) - ACCESS PANEL SHOWN
	1-1/2 HOUR FIRE DAMPER (UL 555) WITH ACCESS DOOR OR PANEL
	3 HOUR FIRE DAMPER (UL 555) WITH ACCESS DOOR OR PANEL
	SPLITTER DAMPER
	SMOKE DAMPER (UL 555) WITH ACCESS DOOR OR PANEL
	BACK-DRAFT DAMPER WITH ACCESS DOOR OR PANEL
	MANUAL VOLUME DAMPER WITH ACCESS DOOR OR PANEL
	MOTOR OPERATED DAMPER WITH ACCESS DOOR OR PANEL
	DUCT MOUNTED SMOKE DETECTOR, FURNISHED BY ELECTRICAL, INSTALLED BY HVAC CONTRACTOR
	REFRIGERANT SUCTION PIPING
	REFRIGERANT LIQUID PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	CONDENSATE DRAIN PIPING
	CIRCULATING WATER SUPPLY PIPING
	CIRCULATING WATER RETURN PIPING
	COOLING TOWER WATER SUPPLY PIPING
	COOLING TOWER WATER RETURN PIPING
	COLD WATER PIPING
	PIPE TURNING DOWN
	PIPE TURNING UP
	TEE CONNECTION IN SIDE OF PIPE
	TEE CONNECTION IN BOTTOM OF PIPE
	TEE CONNECTION IN TOP OF PIPE
	UNION
	END CAP
	CONCENTRIC INCREASER/REDUCER
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	CHECK VALVE
	THREE WAY CONTROL VALVE
	MOTOR OPERATED BUTTERFLY VALVE
	MOTOR OPERATED CONTROL VALVE
	BALANCING VALVE
	FLOW CONTROL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BACKFLOW PREVENTER
	STRAINER
	STRAINER WITH BLOW-OFF VALVE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	PRESSURE TAP
	THERMOMETER
	THERMOMETER WELL IN PIPING
	FLOOR DRAIN LOCATION FOR REFERENCE
	CONDENSATE P-TRAP LOCATION FOR REFERENCE
	FLOW SWITCH
	PRESSURE DIFFERENTIAL SWITCH
	DUCTLESS SPLIT SYSTEM UNIT CONTROLLER
	EMS TEMPERATURE SENSOR
	EMS SPACE HUMIDITY SENSOR
	EMERGENCY HVAC SHUTDOWN SWITCH - EMS OVERRIDE
	INTERVAL TIMER - 6 HOUR NO-HOLD (SCIENCE / ART EXHAUST FAN CONTROL)
	CARBON DIOXIDE SENSOR
	OCCUPANCY SENSOR, SEE ELECTRICAL, EMS
	IONIZATION UNIT
	VARIABLE FREQUENCY DRIVE
	ABOVE FINISHED FLOOR
	ABOVE FINISHED GRADE
	ABOVE CEILINGS
	OUTSIDE AIR
	RETURN AIR
	SUPPLY AIR
	NOT IN CONTRACT
	HALL OPENINGS
	THERMOSTAT
	RISE IN DIRECTION OF ARROW
	DROP IN DIRECTION OF ARROW

NOTE: "E" PREFIX IN PIPE OR EQUIPMENT LABELING INDICATES THAT IT IS EXISTING.

### DESIGN CONDITIONS

SUMMER	- OUTSIDE	93.9F DB, 14.2°F MCWB
	- INSIDE	71.3°F WB, 88.5°F MCDB
		78°F DB, 50% RH
WINTER	- OUTSIDE	21.5°F
	- INSIDE	72°F

OUTSIDE DESIGN CONDITIONS ARE BASED ON ASHRAE GUIDE, HANDBOOK OF FUNDAMENTALS, 2017 EDITION. SUMMER CONDITIONS ARE FROM 4th COLUMN, WINTER CONDITIONS ARE FROM 91.6th COLUMN.

SYSTEMS ARE DESIGNED TO COMPLY WITH THE 2018 INTERNATIONAL MECHANICAL CODE WITH ALL SUBSEQUENT GEORGIA AMENDMENTS, THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH ALL SUBSEQUENT GEORGIA SUPPLEMENTS AND AMENDMENTS, AND ASHRAE STANDARD 62.1-2014 (AQ) PROCEDURE. IONIZATION UNITS ARE USED TO REDUCE THE CONTAMINANTS LISTED IN APPENDIX B TO LESS THAN THE MAXIMUM ACCEPTABLE LEVEL. OUTSIDE AIR IS PROVIDED AT A MINIMUM OF 5 CFM PER PERSON IN EACH SPACE (15 CFM PER PERSON IN CLASSROOMS) OR MORE IF REQUIRED TO OFFSET BUILDING EXHAUST & MAINTAIN A POSITIVE PRESSURE IN THE BUILDING.

### ELECTRIC BOILERS

DESIGNATION	B-3 & 4
MANUFACTURER	LOCHINVAR
MODEL NUMBER	BK2-150C
KN	150
HEATING OUTPUT (BTUH)	511,450
STEPS	5
FUEL TYPE	ELECTRIC
GPM	155
INLET & OUTLET CONNECTIONS	3"
PRESSURE DROP (PSI)	1

NOTE: FURNISH LOCKABLE BUILT-IN DISCONNECT, INTERLOCK TERMINALS FOR REMOTE START/STOP AND INTERFACE 5-STEP CONTROL WITH BUILDING EMS.

### HEAT EXCHANGER

HEAT EXCHANGER DESIGNATION	HX-1	
MANUFACTURER	SONDEX	
MODEL NUMBER	541-1510	
	HOT SIDE	COLD SIDE
WATER FLOW (GPM)	752	752
ENTERING WATER TEMPERATURE (°F)	100	85
LEAVING WATER TEMPERATURE (°F)	90	95
MAX. PRESSURE DROP (PSIG)	5	5
CONNECTION SIZE	6"	6"
FOULING FACTOR	0	0
TOTAL HEAT TRANSFERRED (BTUH)	3,750,000	

### COOLING TOWER

COOLING TOWER DESIGNATION	CT-1
MANUFACTURER	EVAPCO
MODEL NUMBER	AT 14-4K9
TYPE	UPFLOW
ENTERING AIR WB TEMPERATURE (°F)	78
ENTERING WATER TEMPERATURE (°F)	95
LEAVING WATER TEMPERATURE (°F)	85
WATER FLOW (GPM TOTAL)	752
MAX. STATIC LIFT + PRESS. DROP (FT)	17
MAX. FAN MOTOR HORSEPOWER (HP)	20 (1D)
TOTAL HEAT REJECTED (BTUH/R)	3,750,000
BASE HEATER (KW/PHASE)	1 / 480 / 3ø
SOUND PRESSURE LEVEL (dBA)	
TOP OF TOWER dBA @ (5' / 50')	84 / 72
SIDE OF TOWER dBA @ (5' / 50')	81 / 68

NOTE: (1D) INDICATES INVERTER DUTY MOTOR

### AIR DISTRIBUTION DEVICES

MARK	TYPE	NOMINAL SIZE	NECK SIZE	FLEXIBLE DUCT SIZE	SERVICE
A	LCD	9 x 9	6"	6"φ - MAXIMUM 5 FT LONG	SUPPLY
B	LCD	9 x 9	8"	8"φ - MAXIMUM 5 FT LONG	SUPPLY
C	LGD	12 x 12	8"	8"φ - MAXIMUM 5 FT LONG	SUPPLY
D	LGD	12 x 12	10"	10"φ - MAXIMUM 5 FT LONG	SUPPLY
E	LGD	15 x 15	12"	12"φ - MAXIMUM 5 FT LONG	SUPPLY
F	LCG	12 x 24	10 x 22	---	RETURN
G	LCG	24 x 24	22 x 22	---	RETURN
H	CR	8 x 8	8 x 8	6"φ - MAXIMUM 5 FT LONG	EXHAUST
I	CR	10 x 10	10 x 10	8"φ - MAXIMUM 5 FT LONG	EXHAUST
J	CR	12 x 12	12 x 12	10"φ - MAXIMUM 5 FT LONG	EXHAUST
K	CR	14 x 14	14 x 14	12"φ - MAXIMUM 5 FT LONG	EXHAUST
L	CRS	10 x 10	10 x 10	---	EXHAUST
M	BV	16 x 12	16 x 12	---	EXHAUST
N	DV	4"φ	4"φ	---	EXHAUST
O	OBD	DUCT SIZE	DUCT SIZE	---	O.A.

### AIR DISTRIBUTION DEVICES LEGEND

SYMBOL	DESCRIPTION
LCD	LAY-IN CEILING SUPPLY DIFFUSER - KRUEGER 59H SQUARE LOUVER FACE ALUMINUM DIFFUSER WITH 24"X24" LAY-IN FRAME, SQUARE TO ROUND ADAPTER, WHITE BAKED ENAMEL FINISH. DIFFUSER SHALL BE FOUR WAY THROWN UNLESS OTHERWISE NOTED.
CD	CEILING SUPPLY DIFFUSER - KRUEGER 59H SQUARE LOUVER FACE ALUMINUM DIFFUSER, OPPOSED BLADE VOLUME DAMPER WHERE MYD IS SHOWN ON PLAN, SQUARE TO ROUND ADAPTER, WHITE BAKED ENAMEL FINISH. DIFFUSER SHALL BE FOUR WAY THROWN UNLESS OTHERWISE NOTED.
LCG	LAY-IN CEILING RETURN GRILLE - KRUEGER E6C5 GRILLE, 1/2"X1/2"X1/2" ALUMINUM GRID CORE, WITH 24"X24" OR 24"X12" LAY-IN FRAME AND DUCT CONNECTION FLANGE, AND WHITE BAKED ENAMEL FINISH.
CR	CEILING EXHAUST REGISTER - KRUEGER E6C5 REGISTER WITH 1/2"X1/2"X1/2" ALUMINUM GRID CORE, FLAT ALUMINUM FRAME, OPPOSED BLADE VOLUME DAMPER, WHITE BAKED ENAMEL FINISH.
CRS	CEILING EXHAUST REGISTER - KRUEGER 5805H, REGISTER WITH HORIZONTAL ANGLE ALUMINUM BLADES SPACED 1/2" @ 35", FLAT ALUMINUM FRAME, OPPOSED BLADE VOLUME DAMPER WHITE BAKED ENAMEL FINISH.
BV	SIDEHALL BLOCK VENT - SUPERB EXTRUDED ALUMINUM BLOCK VENT IV HORIZONTAL ANGLE BLADES @ 45° SPACED ON 1" CENTERS, 4" DEPTH, INSECT SCREEN AND BAKED ENAMEL FINISH (COLOR SELECTED BY ARCH). NOMINAL SIZE AS INDICATED ON PLANS.
DV	DRYER VENT LOUVER -- SEIHO RCG ROUND STAINLESS STEEL DRYER VENT LOUVER IV BACKDRAFT DAMPER.
OBD	OPPOSED BLADE VOLUME DAMPER - KRUEGER OBDDM STEEL OPPOSED BLADE DAMPER FOR SQUARE DUCT INSTALLATION (FRIGIO FOR ROUND DUCT).

NOTE: MANUFACTURER SHALL FURNISH FINISHED SCREWS FOR ALL AIR DISTRIBUTION DEVICES TO MATCH FINISH OF THAT DEVICE.

### WATER SOURCE HEAT PUMP UNITS

UNIT DESIGNATION	M06	M12	M18	M24	M30	M36	M42
MANUFACTURER	CLIMATE MASTER	CLIMATE MASTER	CLIMATE MASTER	CLIMATE MASTER	CLIMATE MASTER	CLIMATE MASTER	CLIMATE MASTER
MODEL NUMBER	TCH006	TCH012	TCH018	TCH024	TCH030	TCH036	TCH042
TYPE	HORIZ.	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
SUPPLY FAN PERFORMANCE							
SUPPLY AIR (CFM)	200	400	600	800	1000	1200	1400
EXTERNAL STATIC PRESSURE (" H <sub>2</sub> O)	.47	.47	.44	.63	.48	.48	.27
MAX. FAN MOTOR HORSEPOWER	1/10	1/10	1/6	1/4	3/4	1/2	3/4
COOLING PERFORMANCE							
TOTAL COOLING CAPACITY (BTUH)	5,700	11,600	17,200	23,400	28,300	33,500	40,700
SENSIBLE COOLING CAPACITY (BTUH)	4,300	8,300	13,300	17,300	20,300	24,500	31,600
ENTERING AIR TEMPERATURE DB/WB (°F)	80/67	80/67	80/67	80/67	80/67	80/67	80/67
ENTERING WATER TEMPERATURE (°F)	40	40	40	40	40	40	40
MINIMUM EER AT ARI 13256-1 CONDITIONS	13.2	15.4	14.3	13.4	13.4	13.5	13.1
HEAT REJECTED	7,400	14,700	21,900	30,200	36,200	43,400	52,000
HEATING PERFORMANCE							
TOTAL HEATING CAPACITY (BTUH)	7,500	13,400	19,800	27,800	33,800	42,900	50,000
ENTERING AIR TEMPERATURE (°F)	70	70	70	70	70	70	70
ENTERING WATER TEMPERATURE (°F)	60	60	60	60	60	60	60
MINIMUM COP AT ARI 13256-1 CONDITIONS	4.7	4.5	5.0	4.7	4.6	4.4	4.3
HEAT ABSORBED (BTUH)	5,700	10,200	15,400	21,200	25,600	32,100	37,100
WATER FLOW							
WATER COIL FLOW (GPM)	15	30	40	60	70	90	100
COIL PRESSURE DROP (FT)	1.4	10.3	7.7	12.6	6.3	9.3	12.8
CONTROL VALVE Cv / P.D. (FT)	NO VALVE	NO VALVE	2.8 / 4.6	4.2 / 4.6	5.0 / 4.6	6.4 / 4.6	7.0 / 4.6
FLEXIBLE HOSE & PIPE DIAMETER	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"
UNIT DIMENSIONS (H" x L" x H")	14 x 34 x 11.5	14 x 34 x 11.5	20 x 43 x 17	20 x 43 x 18.3	20 x 43 x 18.3	20 x 47 x 21	20 x 47 x 21
UNIT PRICES							
CONTRACTOR PRICE PER UNIT (U.S. \$)	1,564.63	1,564.63	1,672.31	1,773.44	1,874.53	1,903.24	2,112.36

### ROOF-TOP AIR CONDITIONING UNITS

UNIT DESIGNATION	RTU-B2 (R36)	RTU-B1 (R60)	RTU-B3 (RT2)
MANUFACTURER	CARRIER	CARRIER	CARRIER
MODEL NUMBER	48SC04	48SC06	48HC01
EVAPORATOR FAN PERFORMANCE			
TOTAL SUPPLY AIR (CFM)	1,200	1,750	2,100
MINIMUM OUTSIDE AIR (CFM)	120	260	315
EXTERNAL STATIC PRESSURE (" H <sub>2</sub> O)	.40	.40	.45
FAN MOTOR HORSEPOWER	1/2	1.0	2.0
FAN MOTOR DRIVE	DD	DD	BELT
COOLING PERFORMANCE			
TOTAL CAPACITY (BTUH)	35,100	61,600	73,600
SENSIBLE CAPACITY (BTUH)	25,600	44,800	53,300
ENTERING AIR TEMPERATURE DB/WB (°F)	80/67	80/67	80/67
OUTSIDE AMBIENT TEMP (°F)	95	95	95
MINIMUM (SEER) EER AT ARI CONDITIONS	(16.0) 12.0	(16.0) 12.0	12.0
HEATING PERFORMANCE			
HEATING INPUT (BTUH)	67,000	110,000	125,000
HEATING OUTPUT (BTUH)	54,000	88,000	103,000
AFUE (% EFFICIENCY)	81	80	82
TEMPERATURE RISE (°F)	42	47	45
FUEL TYPE	NATURAL GAS	NATURAL GAS	NATURAL GAS
ACCESSORIES			
DEHUMIDIFICATION CYCLE	YES	YES	YES
SLOPED ACCESSORY ROOF CURB	YES	YES	YES

### PUMPS

PUMP DESIG.	SERVICE	GPM	HEAD FT H <sub>2</sub> O	PUMP EFF.	HP	RPM	MIN. GPM	TYPE	MANUFACTURER & MODEL NUMBER
P-1 & 2	CIRCULATING WATER	752	115	75	40 (1D)	1750	234	FRAME MOUNTED	B46 1510 56B 6 x 5 x 11.375
P-3 & 4	COOLING TOWER WATER	752	64	82	20 (1D)	1750	176	FRAME MOUNTED	B46 1510 56B 6 x 5 x 9

NOTE: (1D) INDICATES INVERTER DUTY MOTOR  
 NOTE: P-1 THRU 4 SHALL HAVE MINIMUM INLET SIZE OF 6".  
 NOTE: FINAL GPM SCHEDULED INCLUDES 126 GPM FOR 3rd FLOOR BUILD-OUT.

### VARIABLE FREQUENCY DRIVES

DRIVE DESIG.	DRIVE SERVES	VOLTAGE/PHASE	MOTOR HP	FRAME SIZE	ENCLOSURE	MANUFACTURER & MODEL NUMBER
V-P1, P2	PUMPS P-1 & P-2	480V-3ø	40	R4	UL TYPE I VERTICAL	ABB ACH550
V-P3, P4	PUMPS P-3 & P-4	480V-3ø	20	R3	UL TYPE I VERTICAL	ABB ACH550
V-CT1	COOLING TOWER FAN CT-1	480V-3ø	20	R3	UL TYPE I VERTICAL	ABB ACH550

NOTES:  
 1. FURNISH ENHANCED BYPASS SYSTEM WITH DISCONNECT & FUSES.  
 2. FURNISH CONNECTION FOR COMMUNICATION WITH BUILDING CONTROLS.  
 3. MOUNT DRIVE WITH TOP 6'-0" AFF.  
 4. VFD'S ARE FURNISHED UNDER THE CONTROLS SECTION OF THE SPECIFICATIONS.

### ELECTRIC UNIT HEATERS

HEATER DESIG.	TYPE MOUNTING	KW / V / Ph.	MANUFACTURER & MODEL NUMBER	ACCESSORIES
EH-1	RECESSED CEILING MOUNTED	3.0 / 277 / 1ø	QMARK QDF	INTEGRAL DISCONNECT, 24V CONTROL TRANSFORMER & RELAY, TRIM RING

### EXHAUST FANS

FAN DESIG.	TYPE	CFM	EXT. ST. H <sub>2</sub> O	MOTOR POWER	DRIVE TYPE	MAX. RPM	MAX. SONES	MANUFACTURER & MODEL NO.	CONTROL SEQUENCE
EF-S1	IN-LINE CABINET	800	.50	3/45 W	DIRECT	1050	6.0	PENN 21215-TDA	IT / EMS
EF-S2	UPBLAST POWER ROOF VENTILATOR	825	.50	1/4 HP	DIRECT	1625	9.0	PENN FXI3G	IT / EMS

### ENERGY RECOVERY UNITS

UNIT DESIGNATION	ERU-1
SERVES	LEVELS 100, 200
MANUFACTURER	AAON
MODEL NUMBER	RN-025
OUTSIDE AIR SUPPLY SIDE	
AIR QUANTITY (CFM)	5,700
EXTERNAL STATIC PRESSURE (" H <sub>2</sub> O)	.80
FAN MOTOR HORSEPOWER	7.5
EXHAUST AIR SIDE	
AIR QUANTITY (CFM)	5,130
EXTERNAL STATIC PRESSURE (" H <sub>2</sub> O)	.80
FAN MOTOR HORSEPOWER	5
DESICCANT WHEEL PERFORMANCE - SUMMER	
EXHAUST ENTERING AIR TEMP. (°F/°RH)	78 / 30%
OUTSIDE ENTERING AIR TEMP. DB / WB (°F)	44 / 74
OUTSIDE LEAVING AIR TEMP. DB / WB (°F)	83.7 / 68.5
TOTAL HEAT TRANSFERRED (BTUH)	116,900
SENSIBLE EFFECTIVENESS(%) ASHRAE 94-191	64
LATENT EFFECTIVENESS (%)	60
DX COOLING COIL PERFORMANCE	
ENTERING AIR TEMP. (DB / WB)	83.6 / 68.5
LEAVING AIR TEMP. (DB / WB)	5

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

FACILITY CODE 667-4596

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

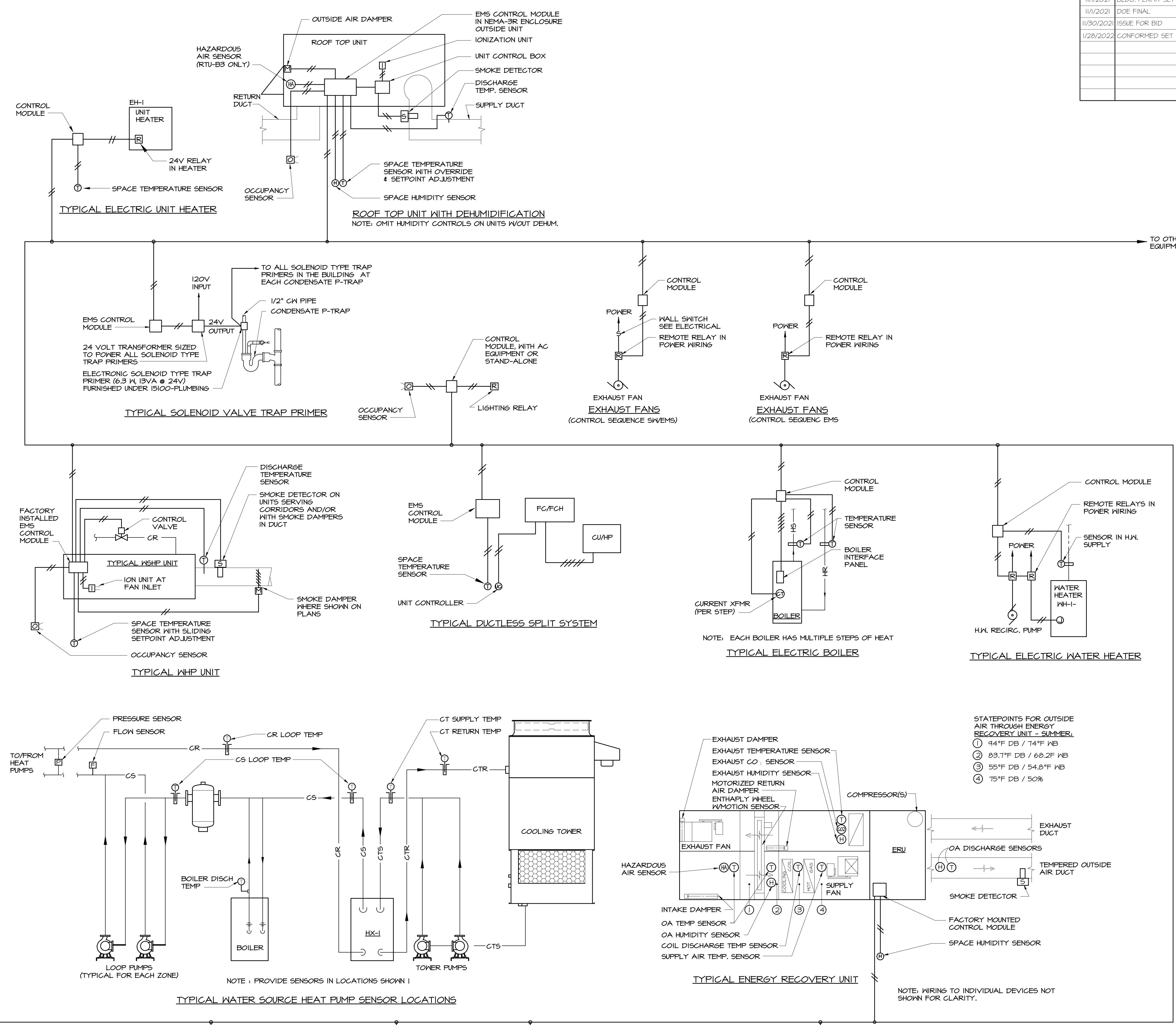
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
FOR:  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

cunningham, forehand, matthews & moore  
cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

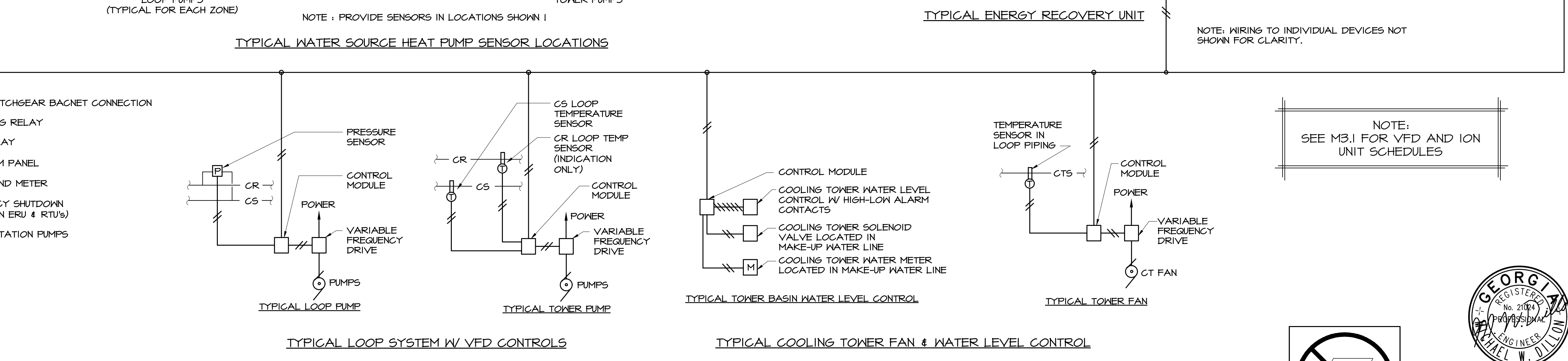
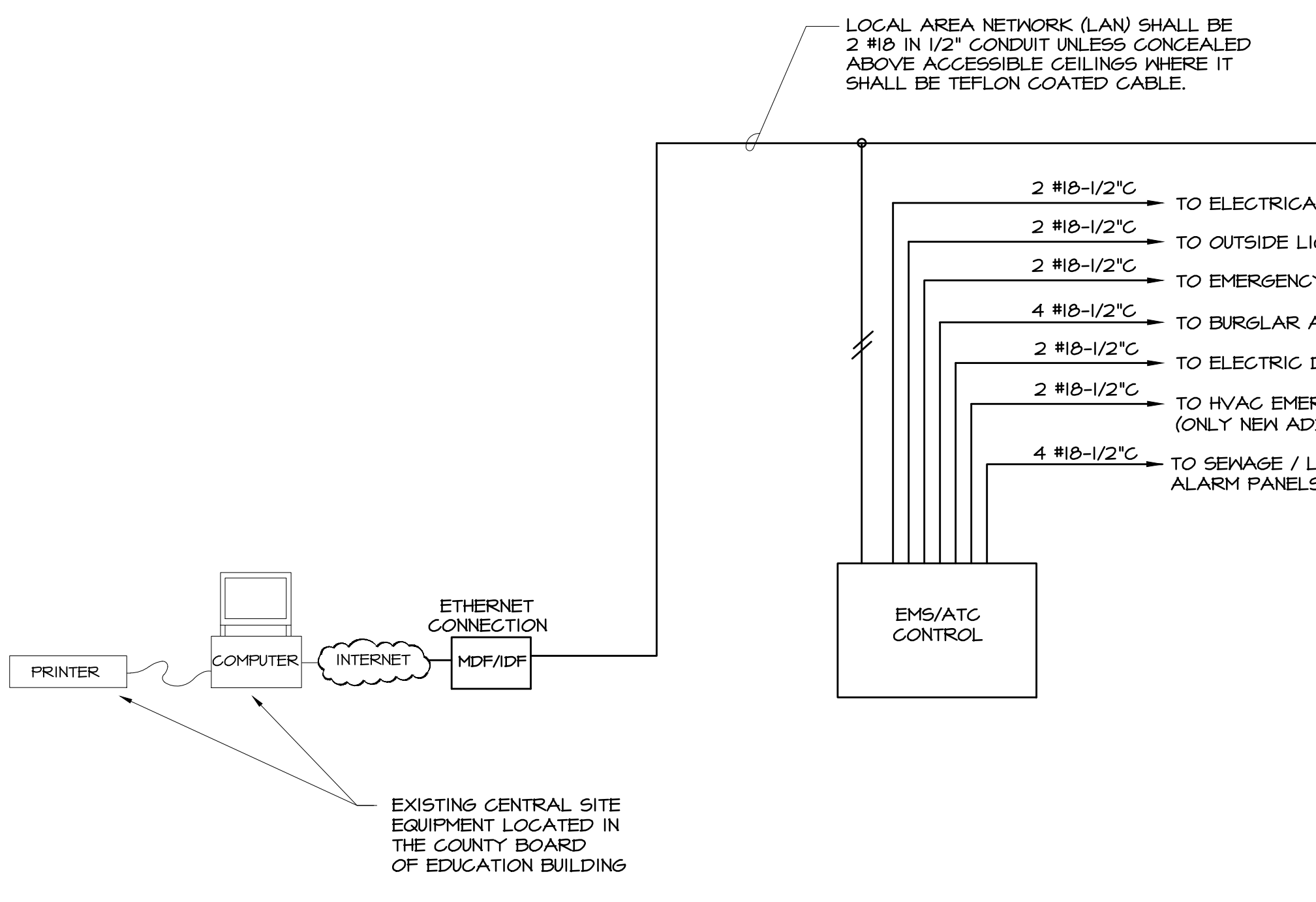
DATE: MARCH 1, 2021  
JOB NO. SHL-DO1-21  
DWG. BY: M.W.D.  
CHK. BY: M.W.D.

INPUT/OUTPUT SUMMARY				
MONITOR/CONTROL POINTS	HARDWARE POINTS			
	AI - ANALOG INPUT	AO - ANALOG OUTPUT	DI - DIGITAL INPUT	DO - DIGITAL OUTPUT
LOOP WATER				
CT SUPPLY TEMP	X			
CT RETURN TEMP	X			
CR LOOP TEMP	X			
CS LOOP TEMP	X			
BOILER HEADER WATER TEMP	X			
CS LOOP TEMP	X			
LOOP FLOW STATUS	X			
LOOP PRESSURE SENSOR	X			
TYPICAL LOOP PUMP			X	
PUMP START/STOP			X	
PUMP STATUS			X	
PUMP VFD SIGNAL			X	
TYPICAL CT PUMP			X	
PUMP START/STOP			X	
PUMP STATUS			X	
PUMP VFD SIGNAL			X	
COOLING TOWER			X	
FAN START/STOP			X	
FAN STATUS			X	
FAN VFD SIGNAL			X	
CT BASIN WATER LEVEL			X	
MAKE-UP H2O SOLENOID VALVE			X	
BASIN H2O LOW LEVEL			X	
BASIN H2O HIGH LEVEL			X	
WATER METER INFORMATION			X	
TYPICAL ELECTRIC BOILER			X	
START/STOP			X	
SUPPLY TEMPERATURE			X	
RETURN TEMPERATURE			X	
BOILER STATUS			X	
CURRENT XPHR (PER STEP)			X	
MODBUS/BACNET CONNECTION			X	
TYP. WATER SOURCE HEAT PUMP			X	
ZONE TEMPERATURE			X	
DISCHARGE AIR TEMPERATURE			X	
SMOKE DETECTOR			X	
SUPPLY FAN START/STOP			X	
COMPRESSOR START/STOP			X	
COMPRESSOR CURRENT XPHR			X	
REVERSING VALVE OPEN/CLOSE			X	
CONTROL VALVE OPEN/CLOSE			X	
OCCUPANCY SENSOR			X	
IONIZATION UNIT STATUS			X	
TYPICAL ERU			X	
EXHAUST TEMPERATURE			X	
EXHAUST HUMIDITY			X	
EXHAUST CO <sub>2</sub> SENSOR			X	
OUTSIDE AIR TEMP			X	
OUTSIDE AIR HUMIDITY			X	
COIL DISCHARGE TEMP			X	
HOT GAS DISCHARGE TEMP			X	
SUPPLY AIR TEMPERATURE			X	
SUPPLY AIR HUMIDITY			X	
EXHAUST FAN START/STOP			X	
EXHAUST FAN STATUS			X	
SUPPLY FAN START/STOP			X	
SUPPLY FAN STATUS			X	
ENTHALPY WHEEL START/STOP			X	
ENTHALPY WHEEL STATUS			X	
COMPRESSOR START/STOP			X	
HOT GAS REHEAT SOL. VALVE			X	
RA, OA, EA DAMPERS			X	
GAS HEAT START/STOP			X	
SPACE HUMIDITY			X	
HAZARDOUS AIR SENSOR			X	
BURGLAR ALARM			X	
STATUS			X	
TROUBLE			X	
OUTSIDE AIR TEMP			X	
HUMIDITY			X	
GENERATOR			X	
STATUS			X	
OVERCRANK			X	
BACNET CONNECTION			X	
ELECTRIC DEMAND METER			X	

GENERAL NOTES:  
A. PROVIDE MULTIPLE STAGES OF CONTROL FOR UNITS WITH MULTIPLE STEPS OF CAPACITY.  
B. WIRE THRU SMOKE DETECTORS FOR UNITS WITH OVER 2000 CFM THAT SERVE CORRIDORS, AND/OR THAT HAVE ASSOCIATED SMOKE DAMPERS TO SHUT DOWN THE UNIT AND CLOSE THE SMOKE DAMPERS WHEN SMOKE IS PRESENT.

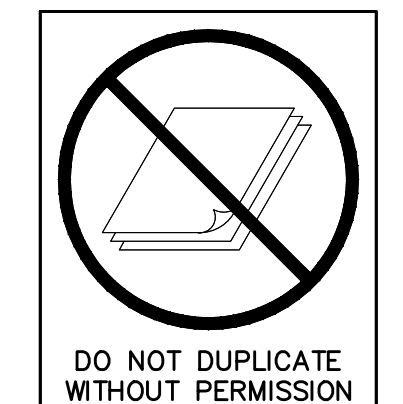


- STATEPOINTS FOR OUTSIDE AIR THROUGH ENERGY RECOVERY UNIT - SUMMER
- 1 94°F DB / 74°F WB
  - 2 83.7°F DB / 68.2°F WB
  - 3 55°F DB / 54.8°F WB
  - 4 75°F DB / 50%



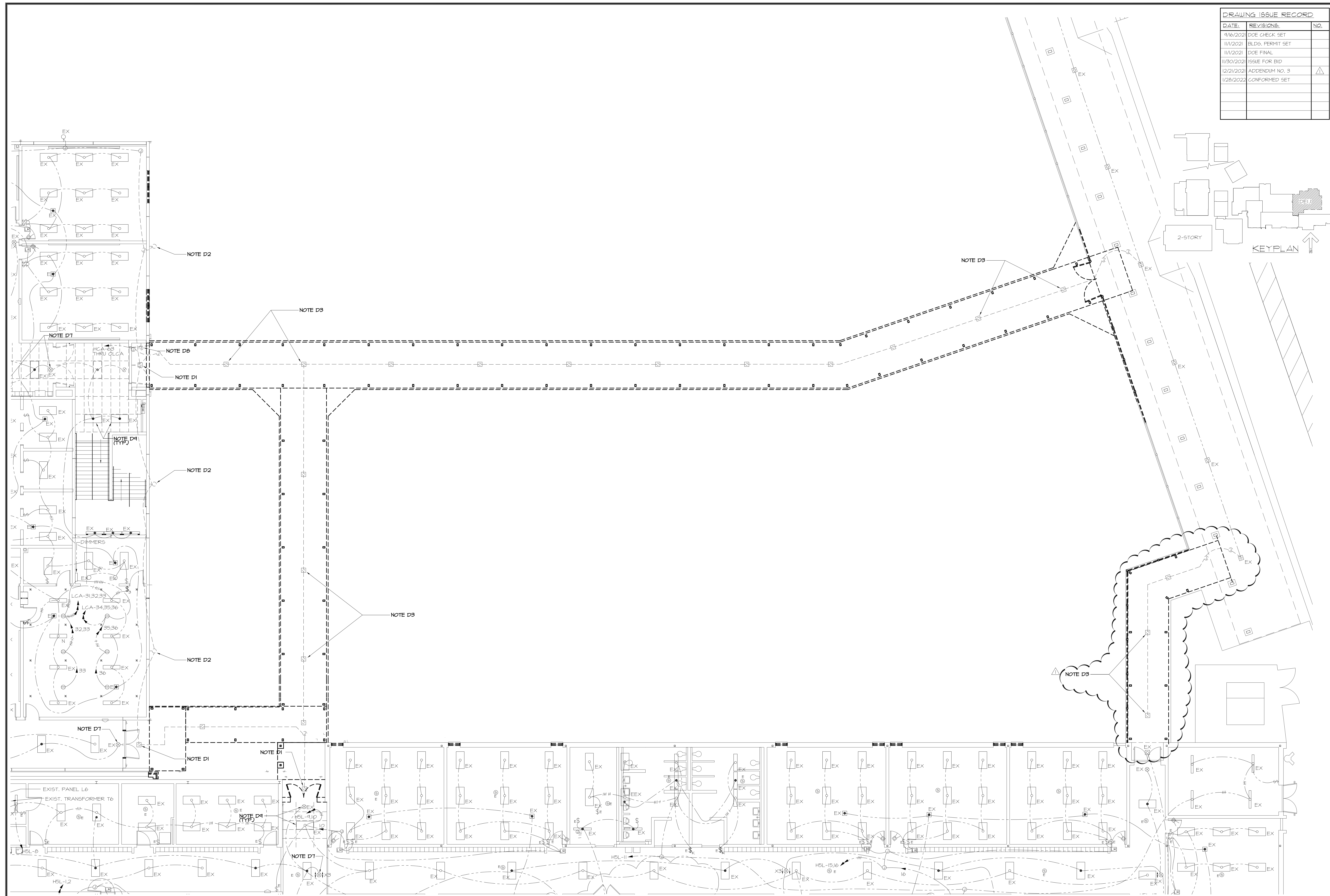
ENERGY MANAGEMENT SYSTEM AND AUTOMATIC TEMPERATURE CONTROLS DIAGRAM

M4.1 NO SCALE



REGISTERED PROFESSIONAL ENGINEER  
MICHAEL W. DILLON  
SPURLOCK & ASSOCIATES, INC.  
consulting engineers  
2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
P: 404.633.0245 | F: 404.633.1756  
84 JOB NO. 212

DATE	REVISIONS	NO.
4/16/2021	DDE CHECK SET	
1/11/2021	BLDG. PERMIT SET	
1/11/2021	DDE FINAL	
1/30/2021	ISSUE FOR BID	
12/21/2021	ADDENDUM NO. 3	
1/28/2022	CONFORMED SET	



FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE: MARCH 11, 2021  
 JOB NO.: 541-001-21  
 DIR. BY: G.T.R.  
 OK. BY: GLK.

**GENERAL NOTES:** (APPLIES TO ALL SHEETS)

- A. EXISTING CIRCUITING AND OUTLET LOCATIONS SHOWN ARE TAKEN FROM EXISTING BUILDING PLANS. VERIFY LOCATIONS IN FIELD BEFORE STARTING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES THAT WOULD HINDER COMPLETION OF WORK BEFORE WORK IS BEGUN.
- B. ALL EXISTING LIGHTING FIXTURES, DEVICES, CONDUIT AND CONDUCTORS SHALL REMAIN IN AREAS WHERE NO WORK IS SHOWN.
- C. ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS SHALL BE FIRE STOPPED WITH 3M FIRE BARRIER OR EQUAL. PRODUCT MEETING UL 1474 OR ASTM E814 FIRE RATINGS IN ACCORDANCE WITH ARTICLE 900-21 OF THE NATIONAL ELECTRICAL CODE.
- D. ALL AREAS OF BUILDINGS HAVE RETURN AIR PLENUMS ABOVE CEILINGS. ALL MATERIALS WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- E. THE CONTRACTOR SHALL REMOVE EXISTING CEILING TILES, GRID AND/OR LIGHTS AS NECESSARY TO INSTALL WORK SHOWN ON THE DRAWINGS AND THEN REPLACE THEM WHEN THE WORK IS COMPLETE. ANY ITEMS BROKEN BY THE CONTRACTOR SHALL BE REPLY-SAVED WITH NEW ITEMS THAT MATCH EXISTING. IF NEW TILES DO NOT MATCH EXISTING THE CONTRACTOR SHALL INSTALL ALL NEW TILES IN ONE OR MORE ROOMS AND USE THE OLD TILES FOR REPLACEMENT THROUGHOUT THE BUILDING.
- F. PAINT ALL EXPOSED CONDUIT INSTALLED IN THIS CONTRACT TO MATCH ADJACENT FINISH.
- G. WHERE MATERIAL OR OBJECTS ARE REMOVED, RELOCATED OR MODIFIED, CONTRACTOR SHALL PATCH OR REPAIR DAMAGED SURFACE FROM WHICH THE ITEM WAS REMOVED, RELOCATED OR MODIFIED TO MATCH THE ADJACENT MATERIAL OR FINISH.
- H. WHERE DEVICES ARE SHOWN TO BE INSTALLED IN EXISTING WALLS, RUN FLEXIBLE METAL CONDUIT DOWN IN WALL FROM ABOVE CEILING TO NEW DEVICE. IF WALL IS INACCESSIBLE, RUN WIREMOLD SURFACE METAL RACEWAY DOWN WALL FROM ABOVE CEILING TO DEVICE MOUNTED IN WIREMOLD SURFACE MOUNTED OUTLET BOX (OR APPROVED EQUALS BY B-LINE OR MONOSYSTEMS).
- I. NO SYSTEM JUNCTION BOX SHALL BE ALLOWED OVER 5' ABOVE ACOUSTICAL CEILING.
- J. ALL CONDUIT SHALL HAVE A GREEN GROUND CONDUCTOR, SIZED PER THE NEC, WHETHER SHOWN ON THE PLANS OR NOT.
- K. THE CONTRACTOR AND OWNER'S PERSONNEL SHALL WALK THE BUILDING TO INVESTIGATE THE PROPER FUNCTION OF LOW VOLTAGE SYSTEMS AND REPORT ANY DEFICIENCIES PRIOR TO BEGINNING ANY WORK.

**1 MAIN LEVEL PARTIAL FLOOR PLAN - DEMO LIGHTING**  
 DE1.1 1/8"=1'-0"

**REFERENCED DEMO NOTES:** (APPLIES TO SHEETS DE1.1 & DE1.2)

- D1. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE IN SOFFIT. REMOVE CONDUCTORS AND ACCESSIBLE CONDUIT BACK TO THE NEXT DEVICE SHOWN TO REMAIN. DO NOT DISRUPT CONTINUITY BETWEEN EXISTING FIXTURES TO REMAIN.
- D2. DISCONNECT AND REMOVE EXISTING WALL MOUNTED LIGHTING FIXTURE. REMOVE CONDUCTORS AND ACCESSIBLE CONDUIT BACK TO THE NEXT DEVICE SHOWN TO REMAIN. DO NOT DISRUPT CONTINUITY BETWEEN EXISTING FIXTURES TO REMAIN.
- D3. DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED LIGHTING FIXTURES ON PORTION OF CANOPY TO BE REMOVED. EXTEND EXISTING CIRCUIT THRU EXISTING BUILDING AND RECONNECT TO EXISTING FIXTURES TO REMAIN AS SHOWN ON SHEET E1.1.
- D4. IN EXISTING CORRIDOR 14.130 WHERE NEW GAS AND SPRINKLER PIPING IS BEING INSTALLED ABOVE THE CEILING, TEMPORARILY SUPPORT EXISTING LIGHTING FIXTURES AND CEILING MOUNTED DEVICES. REMOVE CEILING GRID AND TILES, COORDINATE WITH PLUMBING. REINSTALL EXISTING LIGHTING FIXTURES AND CEILING MOUNTED DEVICES IN NEW CEILING. SEE E1.4 FOR NEW CEILING GRID.

- D5. IN EXISTING CORRIDOR 14.110 WHERE NEW SPRINKLER PIPING IS BEING INSTALLED ABOVE THE CEILING, TEMPORARILY SUPPORT EXISTING LIGHTING FIXTURES AND CEILING MOUNTED DEVICES. REMOVE GRID AND CEILING TILES ONLY AS NECESSARY. COORDINATE WITH PLUMBING. REINSTALL EXISTING CEILING GRID, TILES, LIGHTING FIXTURES AND CEILING MOUNTED DEVICES. SEE GENERAL NOTE E.
- D6. DISCONNECT AND REMOVE EXISTING EXIT SIGN. REMOVE CONDUCTORS AND ACCESSIBLE CONDUIT BACK TO THE NEXT DEVICE SHOWN TO REMAIN. DO NOT DISRUPT CONTINUITY BETWEEN EXISTING FIXTURES TO REMAIN.
- D7. REWORK EXISTING EXIT SIGNAGE TO CORRESPOND WITH TEMPORARY EGRESS CONDITIONS SHOWN ON D1.1. MASK OFF EXISTING EXIT SIGN UNTIL TEMPORARY EXIT CONDITION IS NO LONGER REQUIRED.
- D8. DISCONNECT AND REMOVE EXISTING AV PHONE ENTRY SYSTEM TO BE RELOCATED AND REINSTALLED. STORE IN SAFE LOCATION DURING CONSTRUCTION. SEE E2.1 FOR NEW LOCATION.
- D9. IN EXISTING AREAS WHERE CEILING ARE SHOWN TO BE REPLACED - TEMPORARILY SUPPORT EXISTING LIGHTING FIXTURES AND CEILING MOUNTED DEVICES. REMOVE GRID AND CEILING. REINSTALL EXISTING LIGHTING FIXTURES AND CEILING MOUNTED DEVICES. SEE E1.1 THRU E1.4 FOR NEW CEILING.



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**DE1.1**



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DATE	REVISIONS	NO.
4/16/2021	DDE CHECK SET	
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11/1/2021	DDE FINAL	
1/30/2022	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

OK. BY: G.L.K.

DATE: MARCH 1, 2021

JOB NO. SHL-D01-21

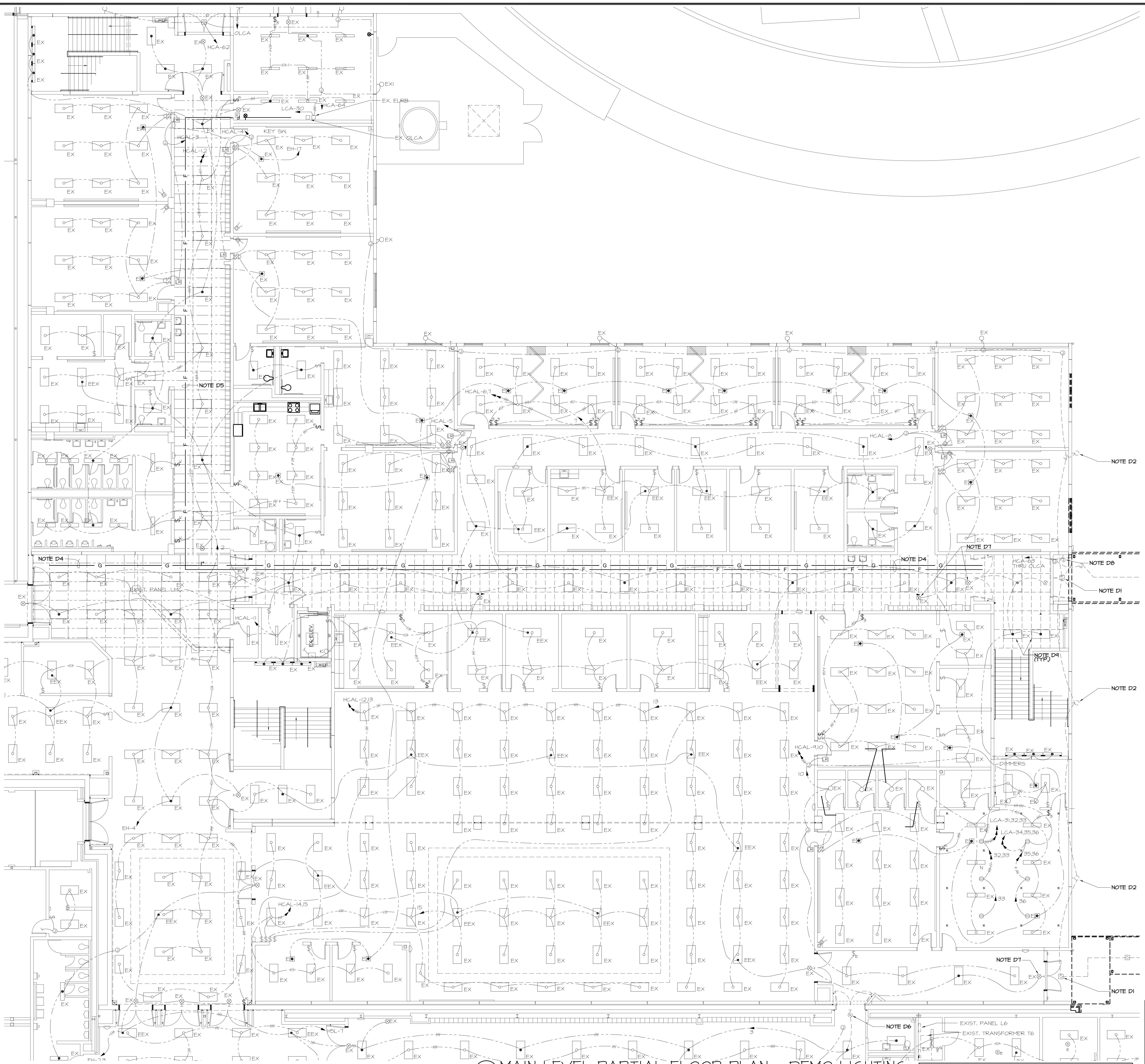
DATE: MARCH 1, 2021

DRG. BY: G.T.R.

**cunningham forehand matthews moore**

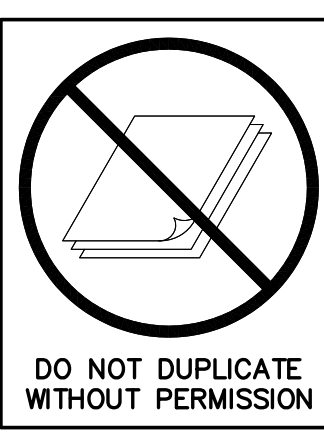
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**DE1.2**



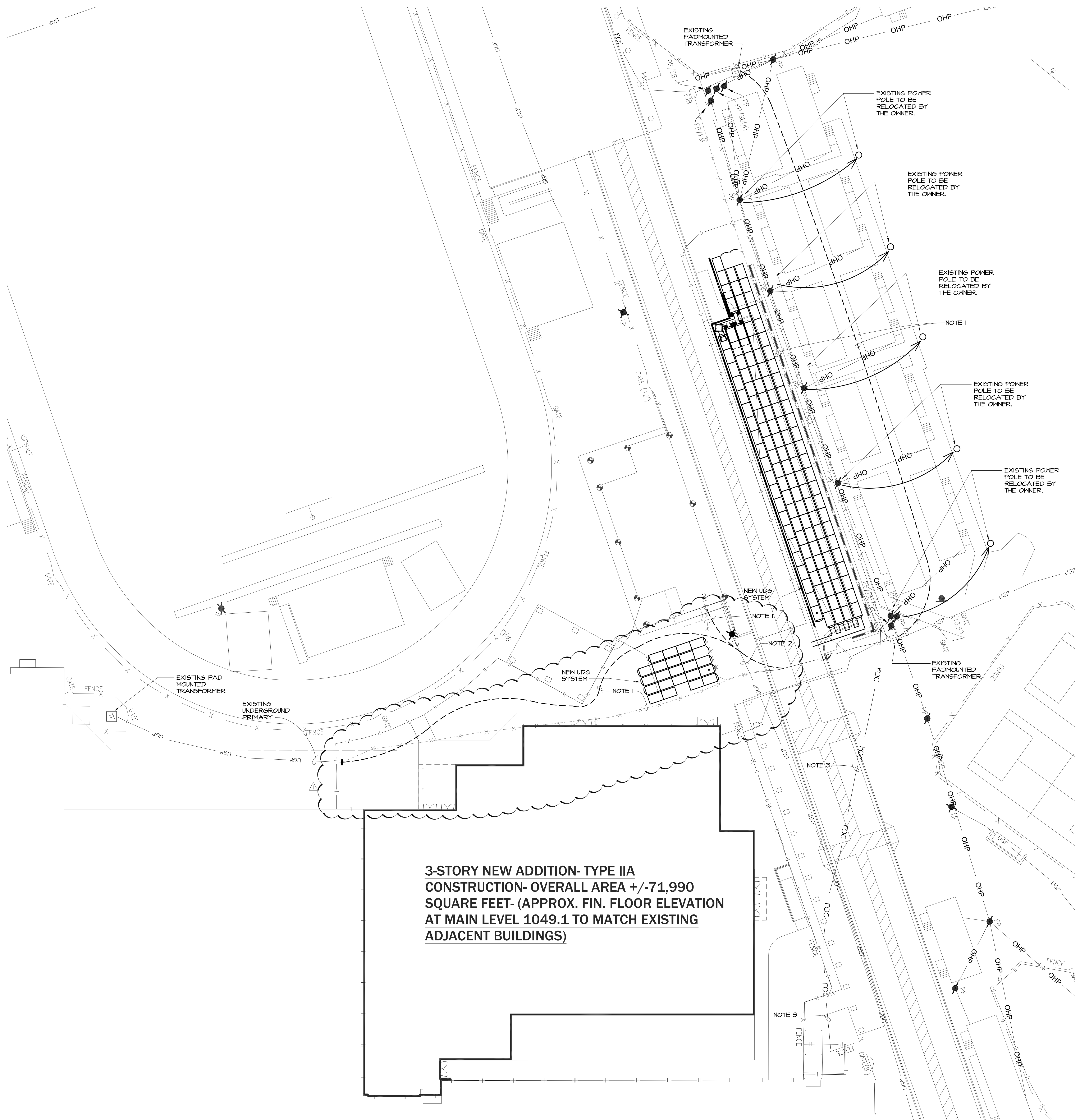
**1 MAIN LEVEL PARTIAL FLOOR PLAN - DEMO LIGHTING**  
SCALE: 1/8" = 1'-0"

SEE SHEET DE1.1 FOR REFERENCED DEMO NOTES.



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11/30/2021	ISSUE FOR BID	
12/21/2021	APPENDUM NO. 3	
1/28/2022	CONFORMED SET	

**3-STORY NEW ADDITION- TYPE IIA  
CONSTRUCTION- OVERALL AREA +/-71,990  
SQUARE FEET- (APPROX. FIN. FLOOR ELEVATION  
AT MAIN LEVEL 1049.1 TO MATCH EXISTING  
ADJACENT BUILDINGS)**

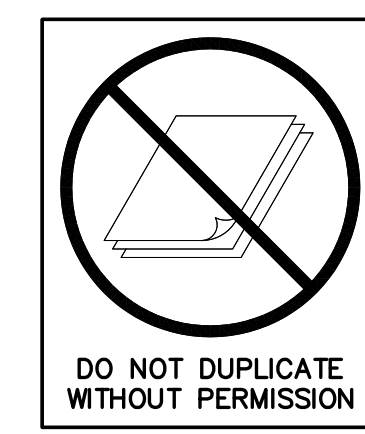
- REFERENCED NOTES:** (APPLIES SHEETS E-0.1)
- CONTRACTOR TO COORDINATE WITH THE GEORGIA POWER COMPANY TO RELOCATE EXISTING UNDERGROUND PRIMARY AS NECESSARY TO AVOID NEW UNDERGROUND DRAINAGE SYSTEM.
  - CONTRACTOR TO DISCONNECT EXISTING UNDERGROUND POWER BETWEEN LIGHT POLES, REINSTALL AND RECONNECT AFTER UNDERGROUND DRAINAGE SYSTEM IS INSTALLED.
  - PROTECT AND SAVE EXISTING UNDERGROUND FIBER OPTIC CABLE DURING CONSTRUCTION.

DEVELOPER:  
 GWINNETT COUNTY PUBLIC SCHOOLS  
 53 GWINNETT DRIVE, BUILDING C  
 LAWRENCEVILLE, GA 30045  
 PH: 770-513-6855  
 FX: 770-513-6111  
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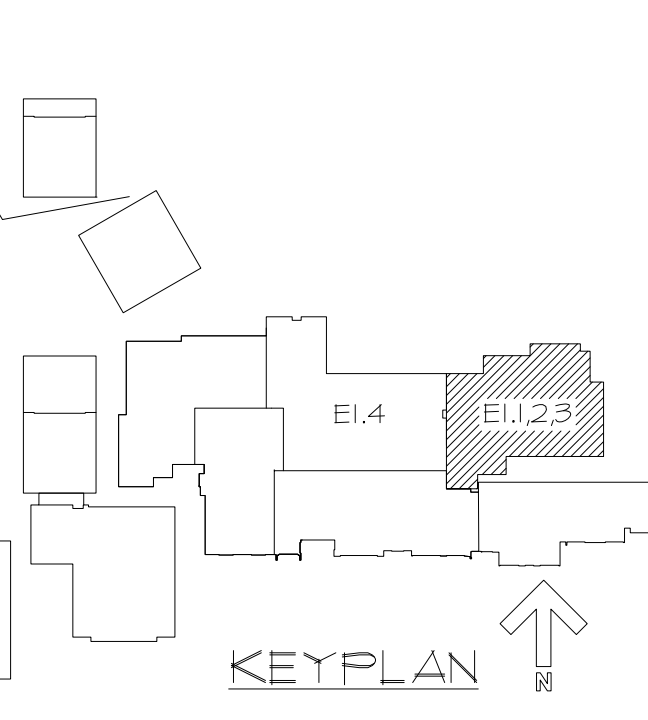
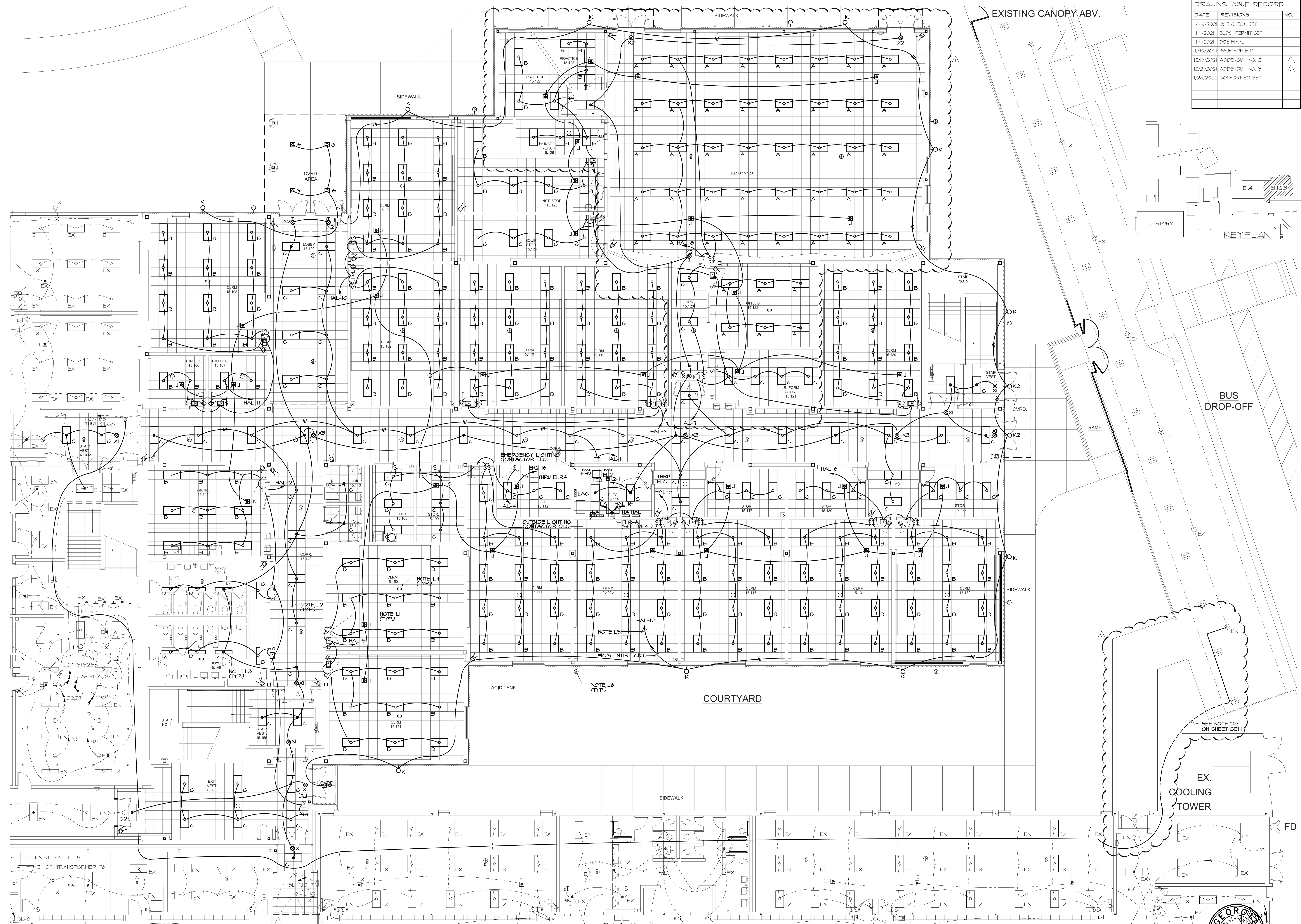
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1 SITE PLAN - ELECTRICAL  
 E0.1 1"=20'-0"

FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 JOB NO.: SHL-D01-21  
 DWG. BY: G.T.R.  
 CK. BY: G.L.K.  
**cunningham forehand matthews moore**  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152  
**E0.1**

DATE	REVISIONS	NO.
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1/30/2022	ISSUE FOR BID	
12/16/2021	ADDENDUM NO. 2	
12/21/2021	ADDENDUM NO. 3	
1/28/2022	CONFORMED SET	

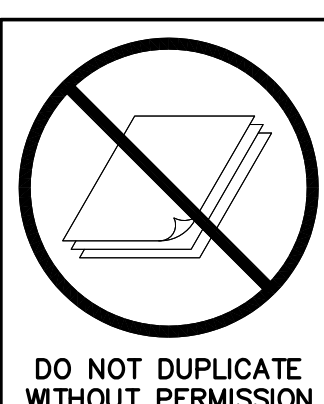


1 MAIN LEVEL ADDITION FLOOR PLAN - LIGHTING  
E1.1 1/8"=1'-0"

**REFERENCED LIGHTING NOTES:** (APPLIES TO SHEETS E1.1 THRU E1.4)

1. IN CLASSROOMS, SWITCH ROW OF FIXTURES AT MARKERBOARD WITH ONE SWITCH AND ALL OTHER FIXTURES IN THE ROOM WITH SECOND SWITCH FOR DUAL LEVEL LIGHTING.
2. ALL CONDUIT IN CORRIDORS SHALL BE ABOVE RHP UNITS AND OUT OF UNIT ACCESS SPACE. SEE MECHANICAL FOR ACCESS SPACES.
3. BREAK CONDUCTOR TO EXTERIOR LIGHTING THRU OLC. PROVIDE ONE SEPARATE UN-SWITCHED CONDUCTOR TO LIGHTING ENDS RELAY AT REAR CANOPY ENTRANCE.
4. CEILING SPEAKERS ARE SHOWN ON THIS DRAWING FOR LOCATION. INTERCOM SYSTEM TO BE PROVIDED AND INSTALLED BY THE OWNER UNDER SEPARATE CONTRACT. FOR SPEAKERS SHOWN IN AREAS WITH HARD CEILING, BACK BOXES TO BE PROVIDED BY THE DIV 21000 CONTRACTOR AND INSTALLED BY THE DIVISION 16000 CONTRACTOR. PROVIDE 1/2" FROM BACKBOX TO ABOVE ACCESSIBLE CEILING.

5. INTERIOR WALL MOUNTED SPEAKERS ARE SHOWN ON THIS DRAWING FOR LOCATION. INTERCOM SYSTEM TO BE PROVIDED AND INSTALLED BY THE OWNER UNDER SEPARATE CONTRACT. BACK BOXES TO BE PROVIDED BY THE DIV 21000 CONTRACTOR AND INSTALLED BY THE DIVISION 16000 CONTRACTOR. PROVIDE 1/2" FROM BACKBOX TO ABOVE ACCESSIBLE CEILING.
6. EXTERIOR WALL MOUNTED SPEAKERS ARE SHOWN ON THIS DRAWING FOR LOCATION. INTERCOM SYSTEM TO BE PROVIDED AND INSTALLED BY THE OWNER UNDER SEPARATE CONTRACT. BACK BOXES TO BE PROVIDED BY THE DIV 21000 CONTRACTOR AND INSTALLED BY THE DIVISION 16000 CONTRACTOR. PROVIDE 1/2" FROM BACKBOX TO ABOVE ACCESSIBLE CEILING. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.
7. NEW TEMPORARY EXIT SIGN CONNECTED TO EXISTING EMERGENCY LIGHTING CIRCUIT. DISCONNECT AND REMOVE TEMPORARY EXIT SIGN WHEN NO LONGER REQUIRED.
8. OCCUPANCY SENSORS ARE PROVIDED AND INSTALLED BY THE ENVS CONTROLS CONTRACTOR AND MAY BE MODIFIED IN LOCATION AND QUANTITY AS NEEDED FOR PROPER OPERATION.



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**NORTH GWINNETT HIGH SCHOOL EAST ADDITION**  
20 LEVEL CREEK ROAD SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

FACILITY CODE 667-4556

DATE: MARCH 1, 2021  
JOB NO.: SHL-DO-21  
DRAWN BY: G.T.R.  
CHECKED BY: G.L.K.

DATE: MARCH 1, 2021  
JOB NO.: SHL-DO-21  
DRAWN BY: G.T.R.  
CHECKED BY: G.L.K.

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**E1.1**

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1/11/2021	DDE FINAL	
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EX. TRACK BELOW

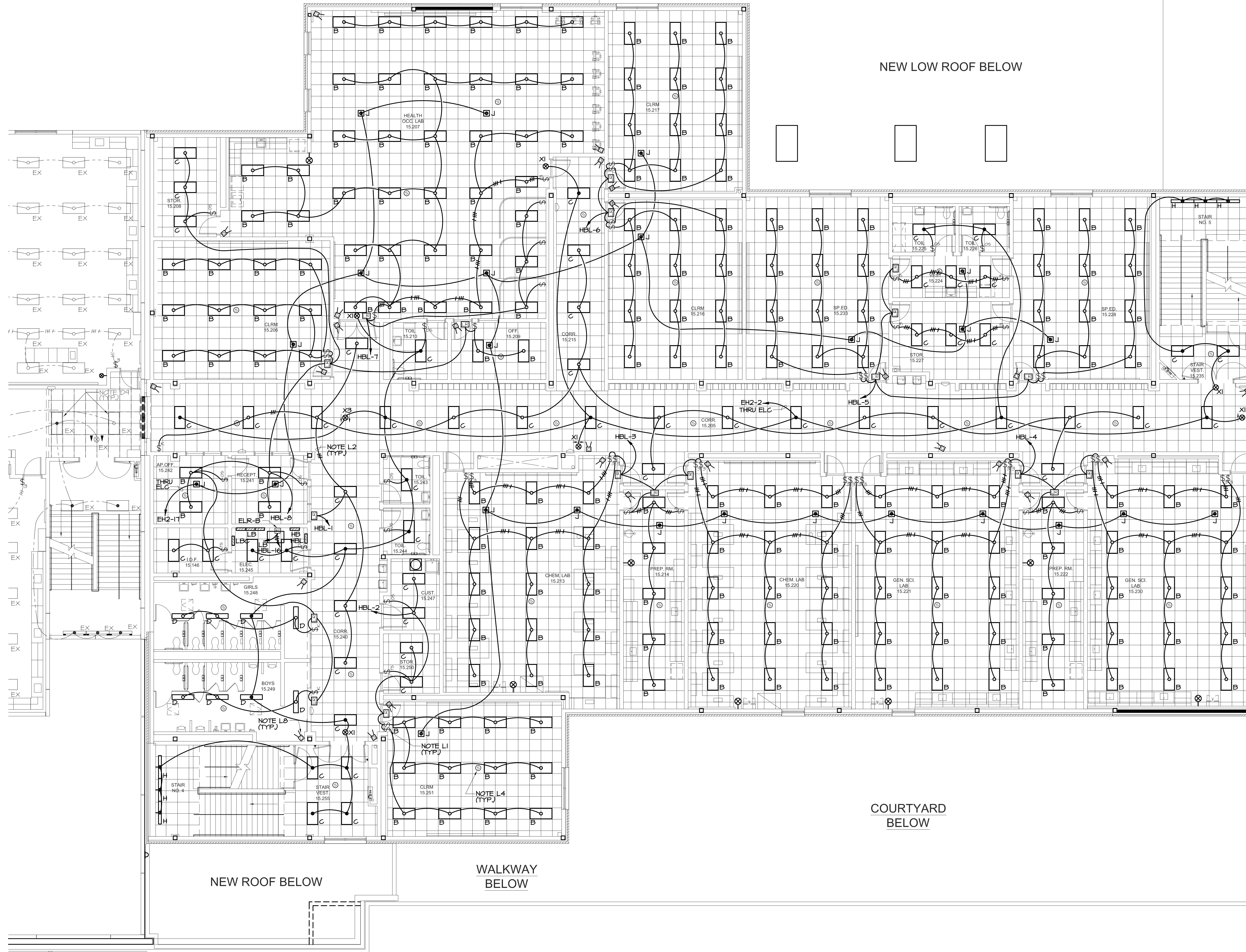
CANOPY BELOW

CANOPY BELOW

EXISTING CANOP

NEW LOW ROOF BELOW

NEW LOW ROOF BELOW

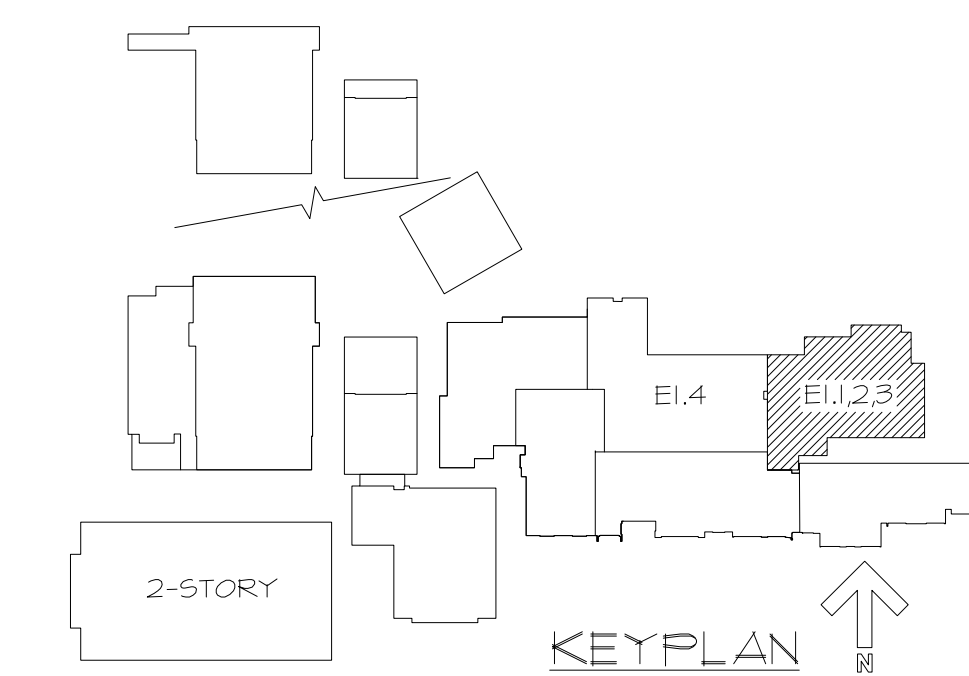


CANOPY BELOW

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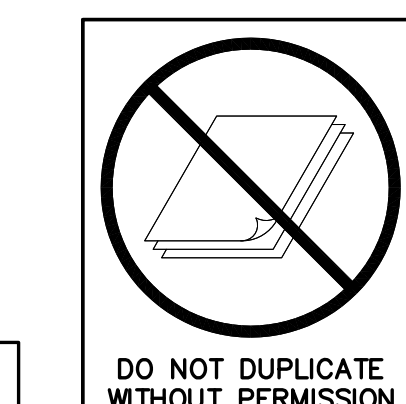
NEW ROOF BELOW

WALKWAY BELOW



1 SECOND LEVEL ADDITION FLOOR PLAN - LIGHTING  
E1.2 1/8"=1'-0"

SEE SHEET E1.1 FOR REFERENCED LIGHTING NOTES.



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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
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**E1.2**

DATE: MARCH 1, 2021	JOB NO.: SHL-001-21	DWG. BY: G.T.R.	CHK. BY: G.L.K.
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DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
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11/1/2021	BLDG. PERMIT SET	
11/1/2021	DDE FINAL	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

FACILITY CODE 667-4556

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

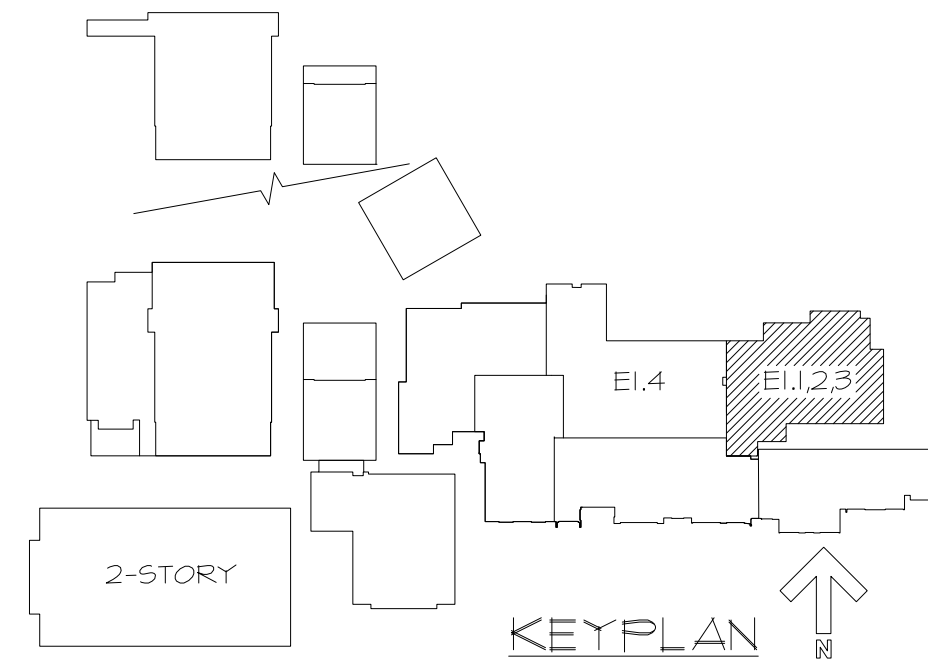
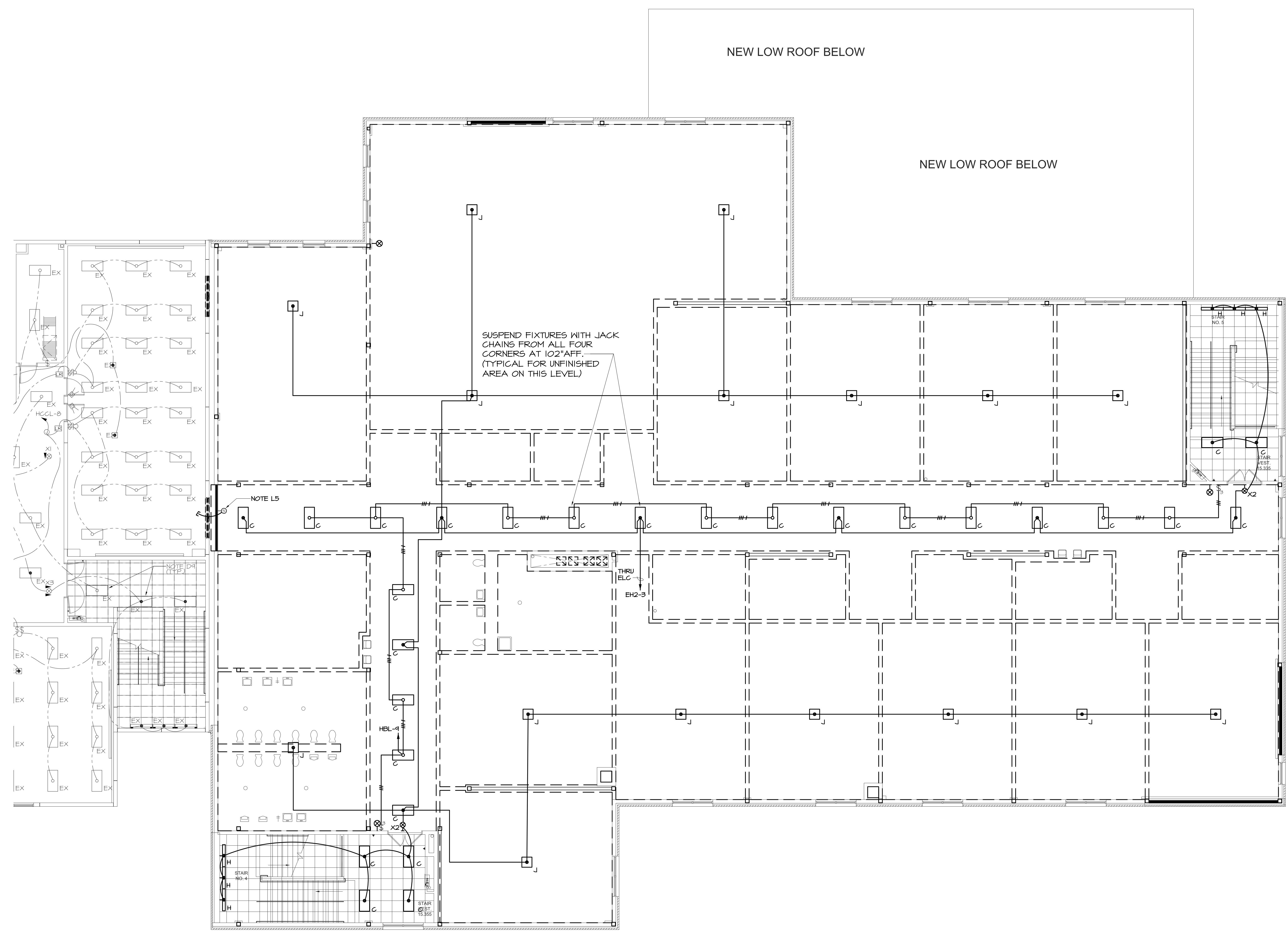
OK BY GLLK

G.T.R.

DATE MARCH 1, 2021

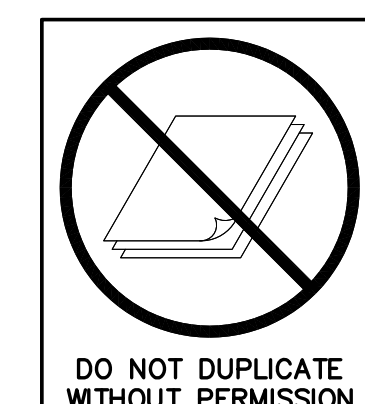
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1 THIRD LEVEL ADDITION FLOOR PLAN - LIGHTING  
E1.3 1/8"=1'-0"

SEE SHEET E1.1 FOR REFERENCED LIGHTING NOTES.



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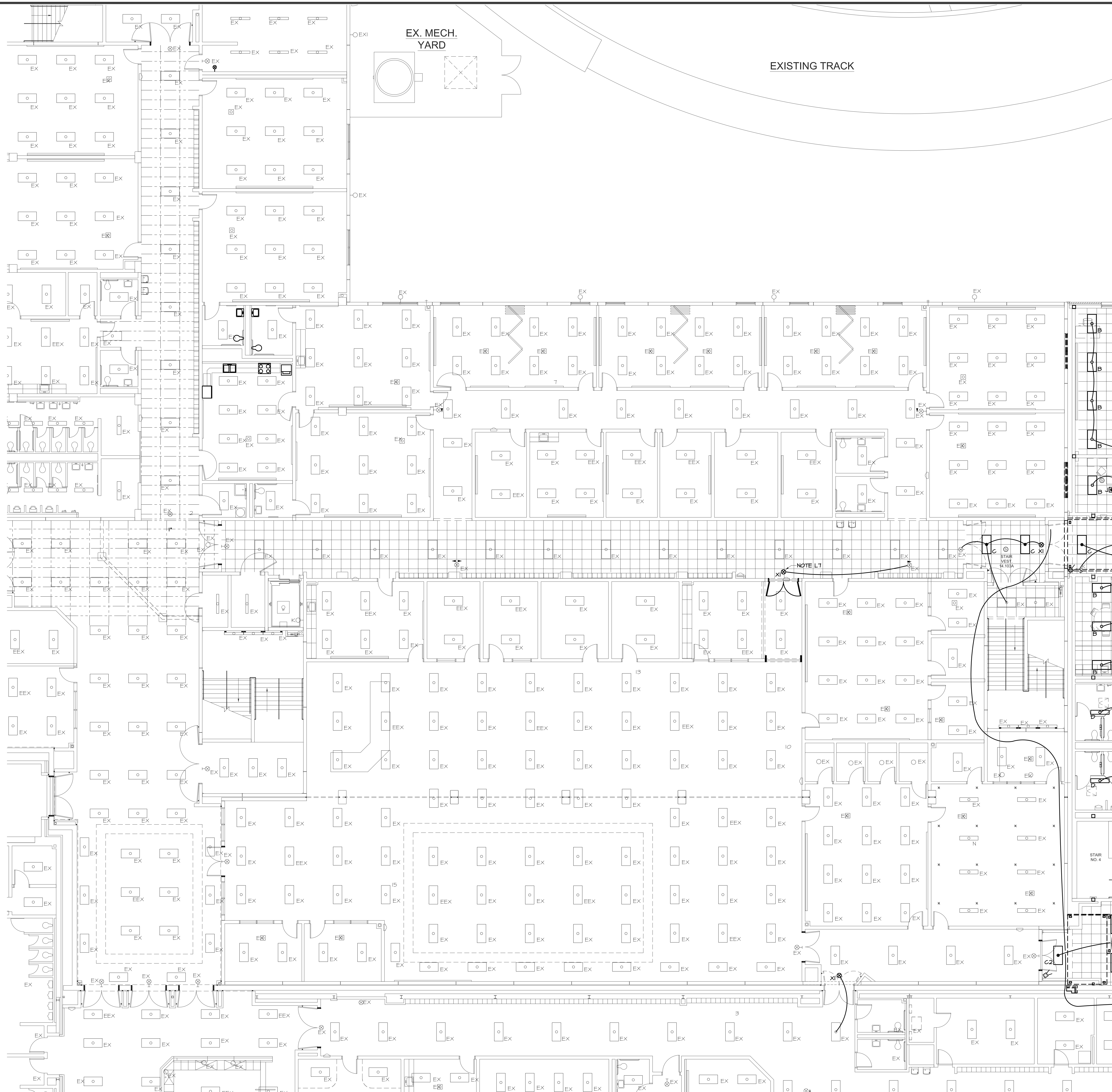


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**E1.3**



DRAWING ISSUE RECORD		
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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

OK BY: GLLK

DATE: MARCH 1, 2021

DWG. BY: G.T.R.

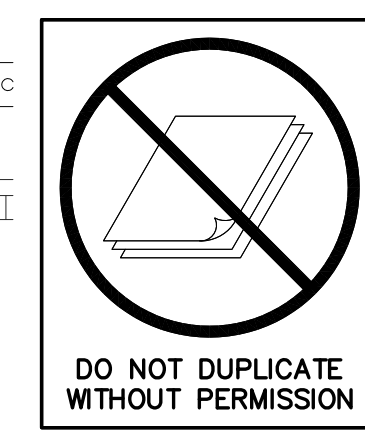
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**E1.4** MAIN LEVEL PARTIAL FLOOR PLAN - LIGHTING  
 1/8"=1'-0"

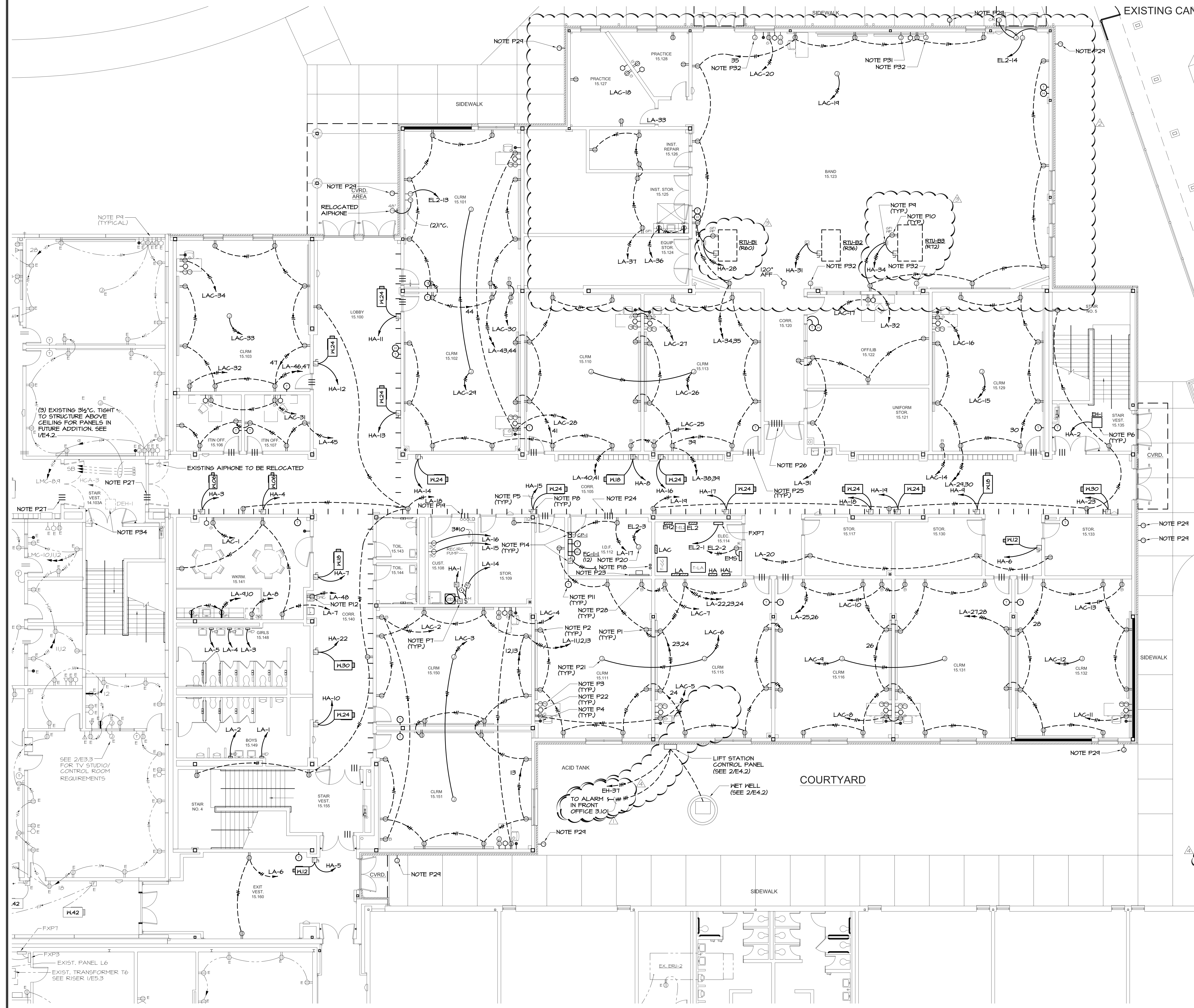
SEE SHEET E1.1 FOR REFERENCED LIGHTING NOTES.



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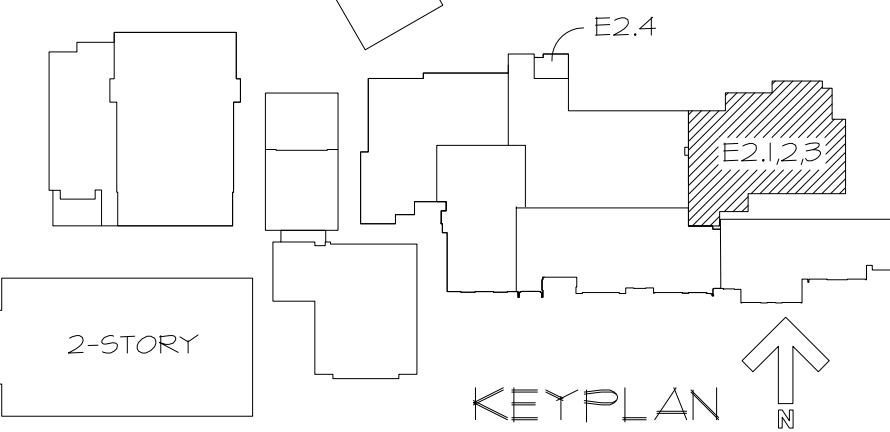
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12/10/2020	ADDENDUM NO. 1	
12/16/2020	ADDENDUM NO. 2	
12/21/2020	ADDENDUM NO. 3	
12/31/2020	ADDENDUM NO. 4	
1/28/2021	CONFORMED SET	

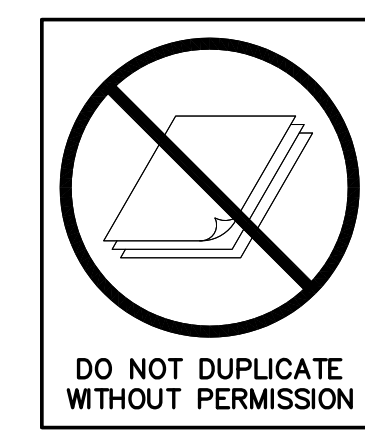


**REFERENCED POWER NOTES:** (APPLIES TO SHEETS E2.1 THRU E2.4)

- P1. DO NOT INSTALL ANY OUTLETS BACK TO BACK.
- P2. SEE DETAIL 1/E4.1 FOR TYPICAL RECEPTACLE WIRING.
- P3. SEE DETAIL 6/E4.1 FOR OUTLET ARRANGEMENT AT FRONT OF CLASSROOM.
- P4. INTERCOM DEVICES ARE SHOWN ON THIS DRAWING FOR LOCATION OF JUNCTION BOXES AND CONDUIT. INTERCOM SYSTEM DEVICES ARE TO BE PROVIDED AND INSTALLED BY THE OWNER UNDER SEPARATE CONTRACT.
- P5. ALL CONDUIT IN CORRIDORS SHALL BE ABOVE MHP UNITS AND OUT OF UNIT ACCESS SPACE. SEE MECHANICAL FOR ACCESS SPACES.
- P6. CONNECT TO BUILT IN DISCONNECT IN UNIT.
- P7. SEE MECHANICAL EQUIPMENT LEGEND ON SHEET E4.2 FOR SWITCH AND CONDUCTOR SIZES.
- P8. INSTANTLY DISCONNECT ON WALL ABOVE CEILING AS CLOSE TO UNIT CONNECTION LOCATION AS POSSIBLE, BUT OUT OF UNIT ACCESS SPACE. SWITCH MUST HAVE CLEARANCES IN FRONT OF SWITCH 30" WIDE X 42" DEEP AS REQUIRED BY NEC SECTION 110-26. COORDINATE WITH OTHER TRADES. SEE MECHANICAL EQUIPMENT LEGEND ON SHEET E-5.12 FOR SWITCH AND CONDUCTOR SIZES.
- P9. FOR ROOF MOUNTED EQUIPMENT - RUN RIGID STEEL CONDUIT UP THROUGH PIPE CURB AND COVER FURNISHED UNDER MECHANICAL. SECURE CONDUIT TO STRUCTURE FOR SUPPORT. INSTALL ELL WITHIN PIPE CURB COVER. RUN RIGID THRU PIPE CURB COVER. TRANSITION TO FLEXIBLE WATERPROOF CONDUIT AND CONNECT TO DISCONNECT SWITCH MOUNTED ON UNIT OR EQUIP. CURB. SEE MECHANICAL EQUIPMENT LEGEND ON SHEET E-5.12 FOR SWITCH AND CONDUCTOR SIZES. SEE MECHANICAL FOR PIPE CURB DETAIL.
- P10. RISE THROUGH PIPE CURB AND INSTALL RECEPTACLE W/ HUBBELL WP26M COVER ON UNIT OR EQUIP. CURB. COORDINATE WITH MECHANICAL. SEE NOTE P4 FOR CONDUIT.
- P11. ALL JUNCTION BOXES INSTALLED FOR EMS SENSORS MUST BE INSTALLED VERTICALLY. COORDINATE EXACT LOCATION OF THERMOSTATS AND SENSORS WITH MECHANICAL.
- P12. INSTALL RECEPTACLE FOR WATER COOLERS AT LOCATION AND HEIGHT AS INDICATED IN MANUFACTURER'S SHOP DRAWINGS. RECEPTACLE SHOULD BE TOTALLY CONCEALED BEHIND COOLER COVER.
- P13. FURNISH AND INSTALL ENGRAVED COVER PLATE FOR EXHAUST FAN SWITCHES. ENGRAVING SHALL READ 'EXHAUST FAN'. COORDINATE EACH LOCATION WITH ARCHITECTURAL.
- P14. INSTALL DISCONNECT ABOVE CEILING AND RECEPTACLE AT 84" AFF. CONNECT TO FAN COIL AND ACCESSORY CONDENSATE PUMP AS DIRECTED BY INSTALLATION INSTRUCTIONS.
- P15. INSTALL JUNCTION BOX AT 30" AFF AND CONNECT TO LIGHT, LIGHT SWITCH, RECEPTACLE AND FAN SWITCH IN FUME HOOD AND TO ASSOCIATED EXHAUST FAN.
- P16. RUN CONDUIT DOWN IN WALL TO JUNCTION BOX MOUNTED BELOW COUNTERTOP AND CONNECT TO TO RECEPTABLES IN STUDENT TABLES WITH 3/12-1/2" FLEX. METAL CONDUIT. COORDINATE EXACT LOCATIONS WITH FURNITURE SUPPLIER.
- P17. RUN CONDUIT BELOW FLOOR TO TEACHER'S DEMONSTRATION TABLE. TURN UP AND CONNECT TO RECEPTACLE IN TABLE WITH 3/12-1/2" FLEX. METAL CONDUIT. COORDINATE EXACT LOCATIONS WITH FURNITURE SUPPLIER.
- P18. PROVIDE (2) 4" C. STUBBED THRU THE FLOOR BETWEEN IDF ROOMS 15.246 & 15.112 WITH BUSHINGS AT BOTH ENDS.
- P19. PROVIDE (4) 4" C. FROM ABOVE CORRIDOR CEILING OF LEVEL 100 TO ABOVE THE CORRIDOR CEILING OF LEVEL 200 WITH BUSHINGS AT BOTH ENDS. PROVIDE (4) 4" C. FROM ABOVE CORRIDOR CEILING OF LEVEL 200 TO ABOVE THE CORRIDOR CEILING OF LEVEL 300 WITH BUSHINGS AT BOTH ENDS.
- P20. TERMINATE 3/10-3/4" C. WITH WIRENUTS IN JUNCTION BOX INSTALLED A MAXIMUM OF 24" ABOVE CEILING FOR FUTURE CONNECTION TO IDF RACK PROVIDED UNDER DIVISION 21 CONTRACT. SUPPORT JUNCTION BOX FROM STRUCTURE. COORDINATE EXACT LOCATIONS WITH DIV. 21 CONTRACTOR.
- P21. TERMINATE CONDUCTORS WITH WIRENUTS IN JUNCTION BOX INSTALLED A MAXIMUM OF 24" ABOVE CEILING, 10' FROM CENTER OF MARKERBOARD, FOR FUTURE CONNECTION TO PROJECTOR OUTLET PROVIDED UNDER SEPARATE CONTRACT. SUPPORT JUNCTION BOX FROM STRUCTURE.
- P22. COORDINATE LOCATIONS OF ALL DATA RELATED ITEMS WITH DIVISION 17000 CONTRACTOR BEFORE RUNNING CONDUIT OR LOCATING DEVICES.
- P23. PROVIDE A 4' X 8' X 3/4" PLYWOOD SECURED TO WALL. INSTALL ERICO 6 HOLE GROUND BUS ASSEMBLY AT 1" AFF ON BACKBOARD. RUN #6 GROUND FROM BUS TO STEEL STRUCTURE.
- P24. INSTALL (3) 3" & (1) 2" CONDUIT SLEEVES THRU WALL ABOVE CEILING WITH BUSHINGS ON BOTH ENDS. FIRE STOP AFTER ALL CABLES ARE INSTALLED.
- P25. WHERE CABLES PASS THRU FIRE WALLS TO INDIVIDUAL ROOMS, INSTALL (3) 1" CONDUIT SLEEVES (TWO FOR DATA AND ONE FOR FA & EMS) THRU WALL ABOVE CEILING WITH BUSHINGS ON BOTH ENDS. FIRE STOP AFTER ALL CABLES ARE INSTALLED.
- P26. WHERE CABLES PASS THRU FIRE WALLS TO INDIVIDUAL ROOMS, INSTALL (5) 1" CONDUIT SLEEVES (TWO FOR DATA AND ONE FOR FA & EMS) THRU WALL ABOVE CEILING WITH BUSHINGS ON BOTH ENDS. FIRE STOP AFTER ALL CABLES ARE INSTALLED.
- P27. WHERE CABLES PASS THRU FIRE WALLS FROM CABLE HANGERS ON BOTH SIDES, INSTALL A 3" CONDUIT SLEEVE WITH BUSHING ON BOTH ENDS FOR EACH ROOM OF CABLE HANGERS. FIRE STOP AFTER ALL CABLES ARE INSTALLED.
- P28. COMPUTER CHARGING RECEPTACLE. VERIFY WITH OWNER'S REPRESENTATIVE THE LOCATION FOR THIS RECEPTACLE IN CLASSROOM BEFORE INSTALLATION.
- P29. INSTALL J-BOX FLUSH WITH EXTERIOR BRICK FACE AT HEIGHT OF 10'-0" AFF FOR FUTURE SECURITY CAMERA BY OWNER. RUN 1/2" CONDUIT FROM BOX AND STUB OUT ABOVE CEILING. INSTALL WEATHERPROOF COVER OVER BOX.
- P30. INSTALL J-BOX FLUSH WITH WALL AT HEIGHT OF 10'-0" AFF FOR FUTURE SECURITY CAMERA BY OWNER. RUN 1/2" CONDUIT FROM BOX AND STUB OUT ABOVE CEILING. PROVIDE BLANK COVER.
- P31. INSTALL 4"x4" J-BOX WITH 2" CONDUIT UP IN WALL STUBBED OUT ABOVE THE CEILING FOR OWNER SUPPLIED STEREO. COORDINATE EXACT LOCATION OF BOX WITH OWNER TO AVOID WINDOWS AND SOUND PANELS (SEE ARCH ELEVATIONS).
- P32. INSTALL 2"x4" J-BOX 12" AFF WITH 1/2" CONDUIT IN WALL STUBBED OUT ABOVE THE CEILING FOR OWNER SUPPLIED SPEAKERS. COORDINATE EXACT LOCATION OF BOX WITH OWNER TO AVOID WINDOWS AND SOUND PANELS (SEE ARCH ELEVATIONS).
- P33. WHERE EXISTING WALL IS BEING DEMOLISHED AND REPLACED, DISCONNECT AND REMOVE EXISTING POWER, DATA, INTERCOM AND AV DEVICES. PULL WIRING TO ABOVE CEILING. PROVIDE NEW CONDUIT AND JUNCTION BOXES IN NEW WALL TO MATCH EXISTING LAYOUT. REINSTALL EXISTING DEVICES AND RECONNECT.
- P34. DISCONNECT EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE DISCONNECTS, CONDUCTORS AND ACCESSIBLE CONDUIT BACK TO PANELS. SEE MECHANICAL FOR EQUIPMENT TO BE REMOVED.
- P35. DISCONNECT EXISTING FIRE ALARM PANEL TO BE REPLACED. CONNECT NEW FIRE ALARM PANEL TO EXISTING BRANCH CIRCUIT.
- P36. CONNECT TO SPARE 20A, 1-POLE BREAKER OR INSTALL NEW BREAKER IN EXISTING SPACE IN PANEL INDICATED.



1 MAIN LEVEL ADDITION FLOOR PLAN - POWER  
E2.1 1/8"=1'-0"



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 NORTH GWINNETT HIGH SCHOOL EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 11, 2021  
 JOB NO.: SH-LD-01-21  
 D.W.G. BY: G.T.R.  
 C.K. BY: G.L.K.  
 FACILITY CODE 667-4556  
**E2.1**

EX. TRACK BELOW

CANOPY BELOW

CANOPY BELOW

EXISTING CANOPY BEL

NEW LOW ROOF BELOW

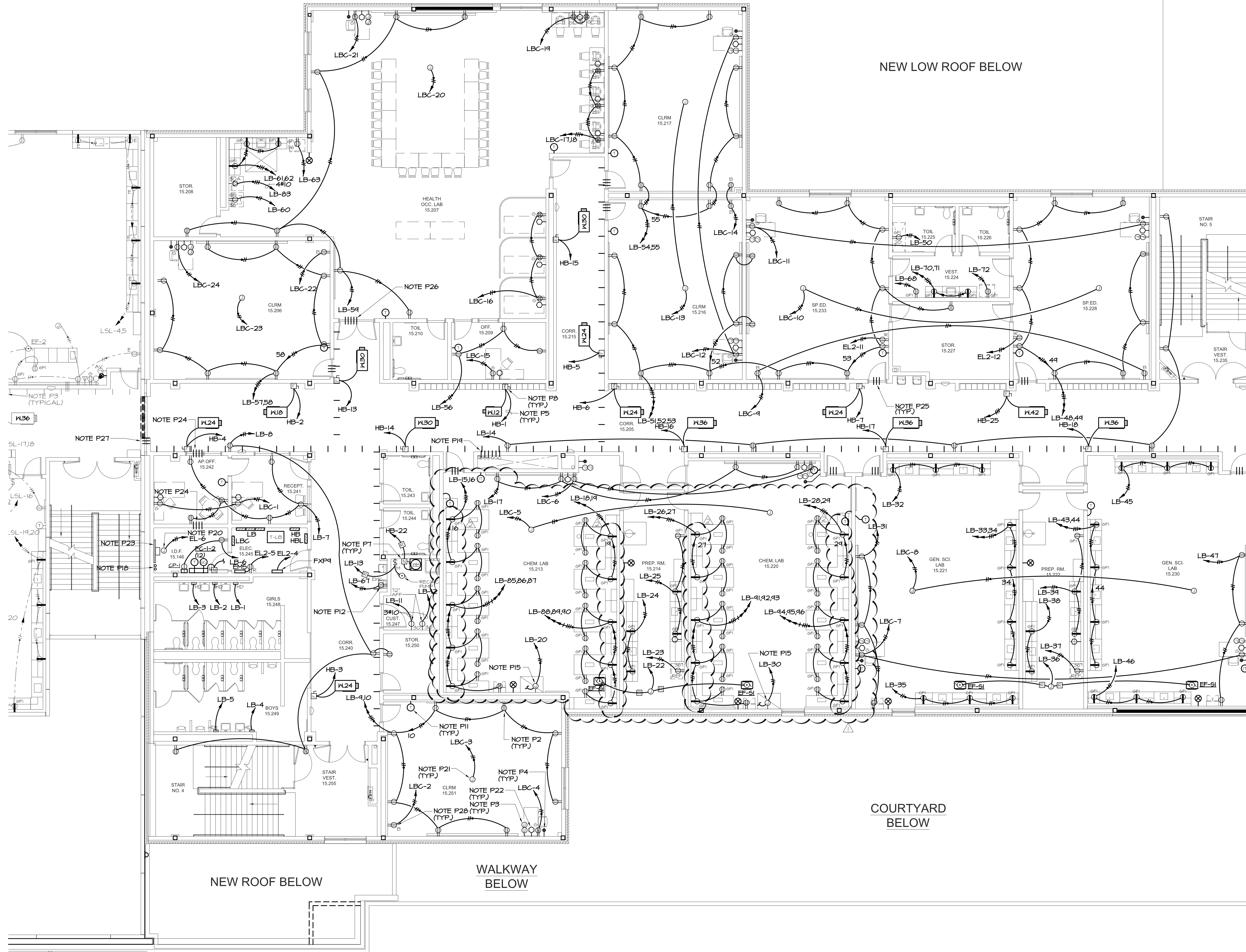
NEW LOW ROOF BELOW

CANOPY BELOW

COURTYARD BELOW

NEW ROOF BELOW

WALKWAY BELOW



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4/16/2021	DDE CHECK SET	
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1/30/2021	ISSUE FOR BID	
12/16/2020	ADDENDUM NO. 2	▲
12/21/2020	ADDENDUM NO. 3	▲
1/28/2022	CONFORMED SET	

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NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
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GWINNETT COUNTY, GEORGIA

OK BY  
GLK

DATE  
MARCH 1, 2021

DWG. BY  
G.T.R.

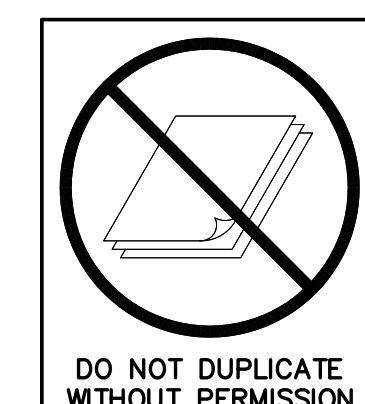
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SHL-001-21

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1 SECOND LEVEL ADDITION FLOOR PLAN - POWER  
E2.2 1/8"=1'-0"

SEE SHEET E2.1 FOR REFERENCED POWER NOTES.





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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
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G.T.R.

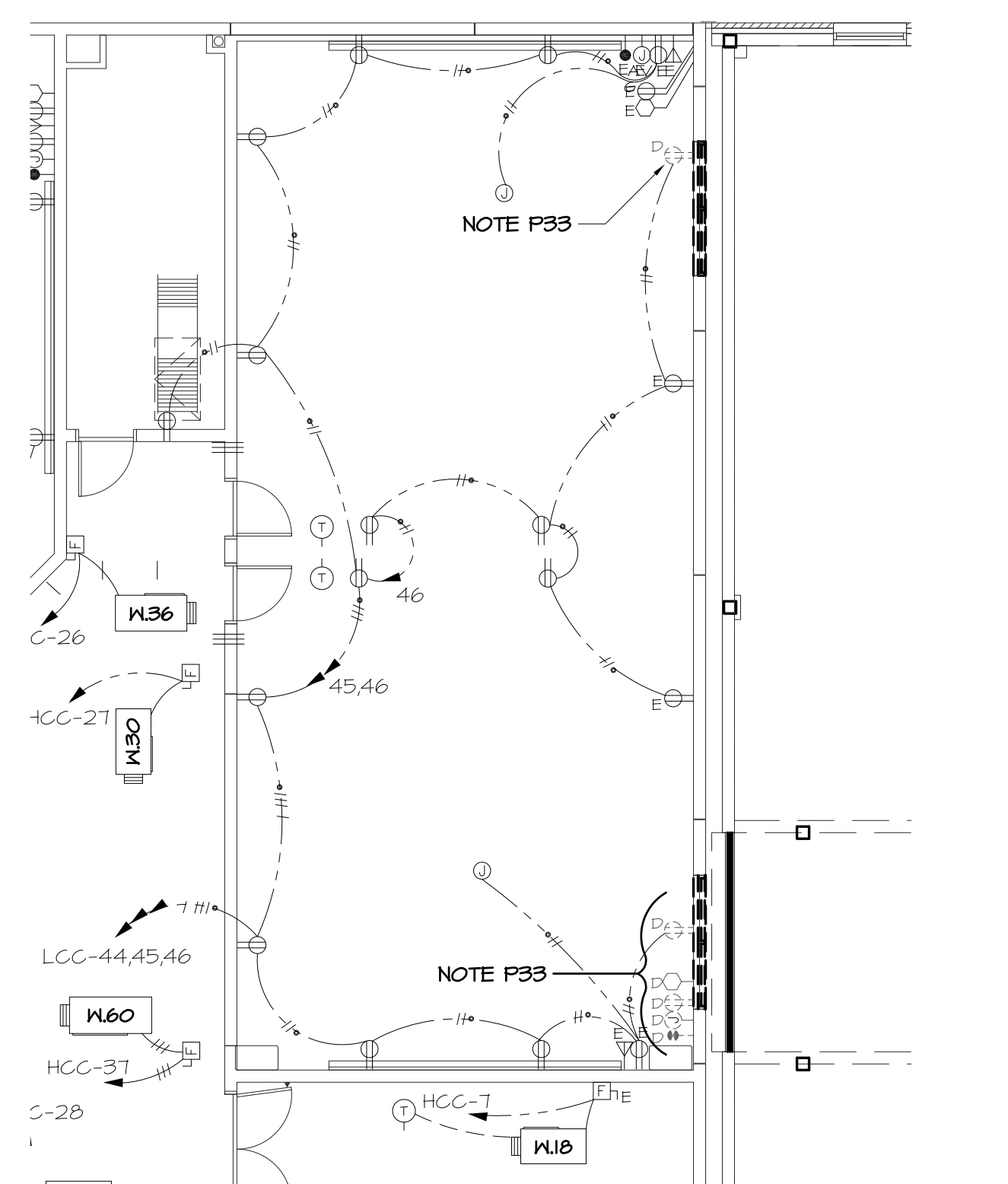
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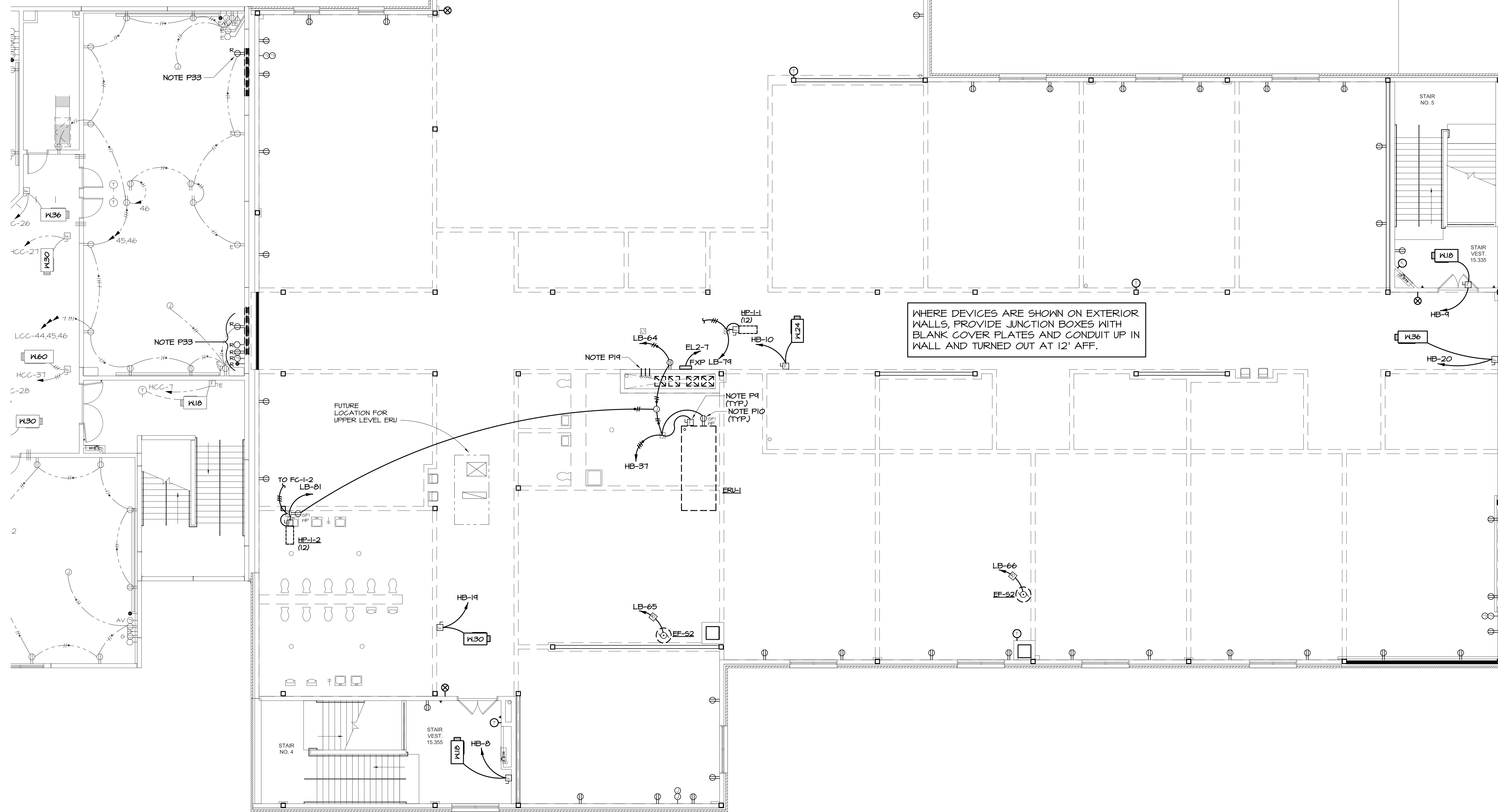
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**E2.3**

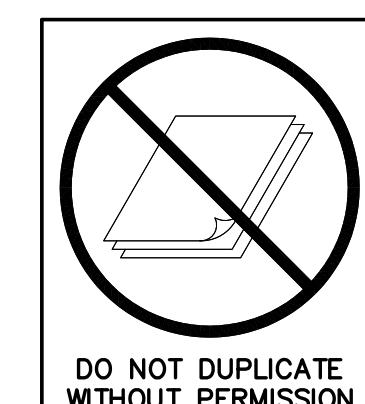


**2** THIRD LEVEL ADDITION FLOOR PLAN - DEMO POWER  
 E2.3/1/8"=1'-0"

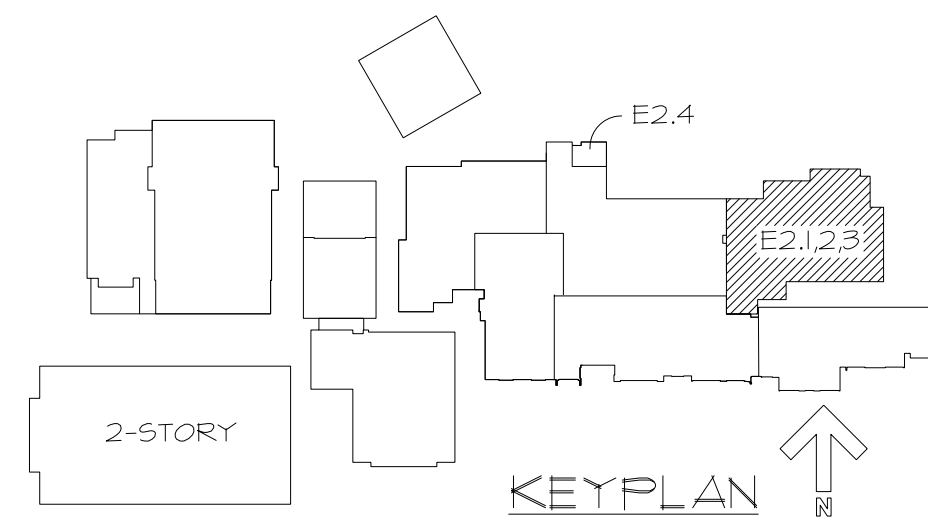


**1** THIRD LEVEL ADDITION FLOOR PLAN - POWER  
 E2.3/1/8"=1'-0"

SEE SHEET E2.1 FOR REFERENCED POWER NOTES.



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NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

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GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021

JOB NO. SHL-001-21

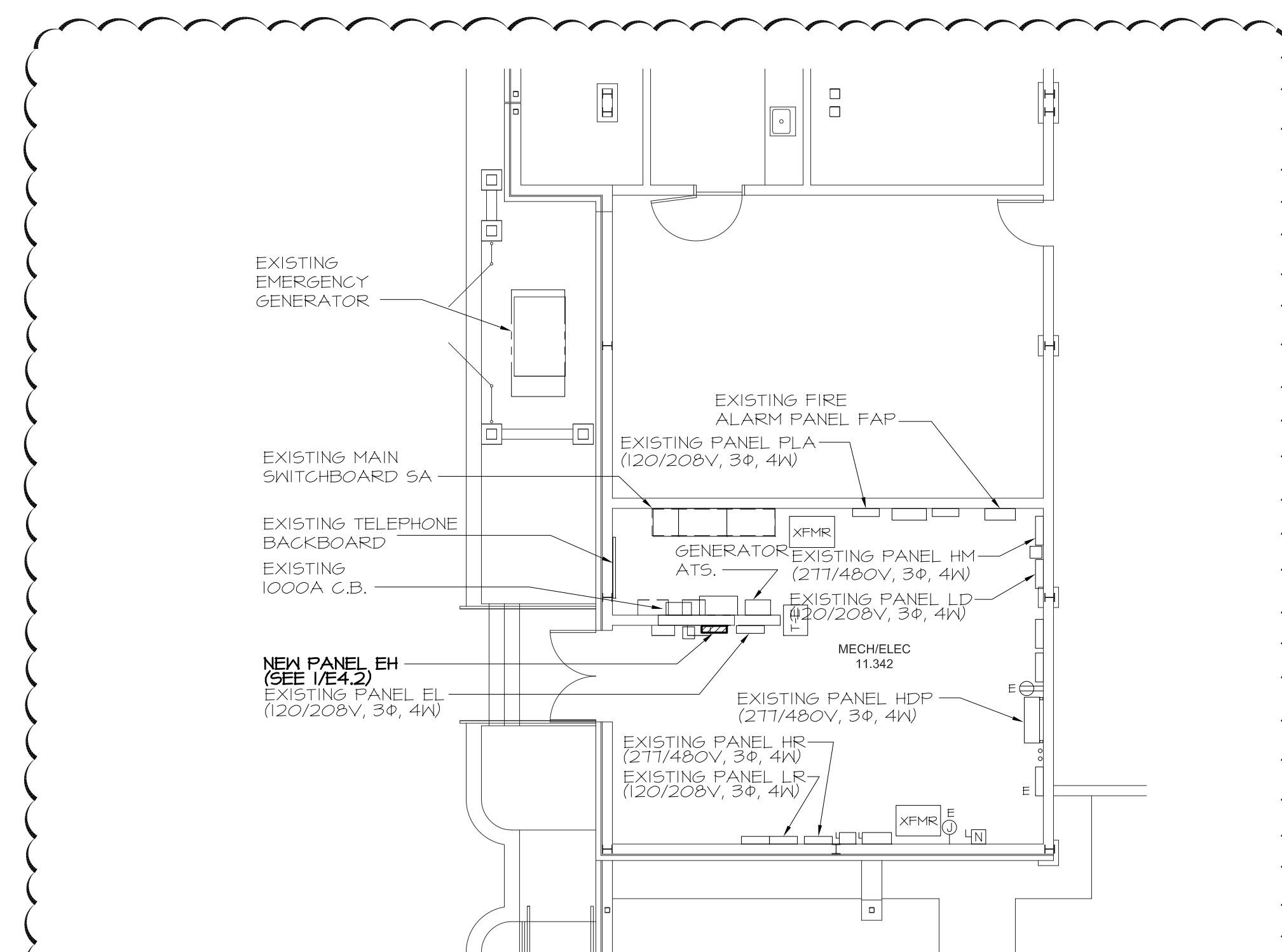
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CHK. BY: G.L.K.

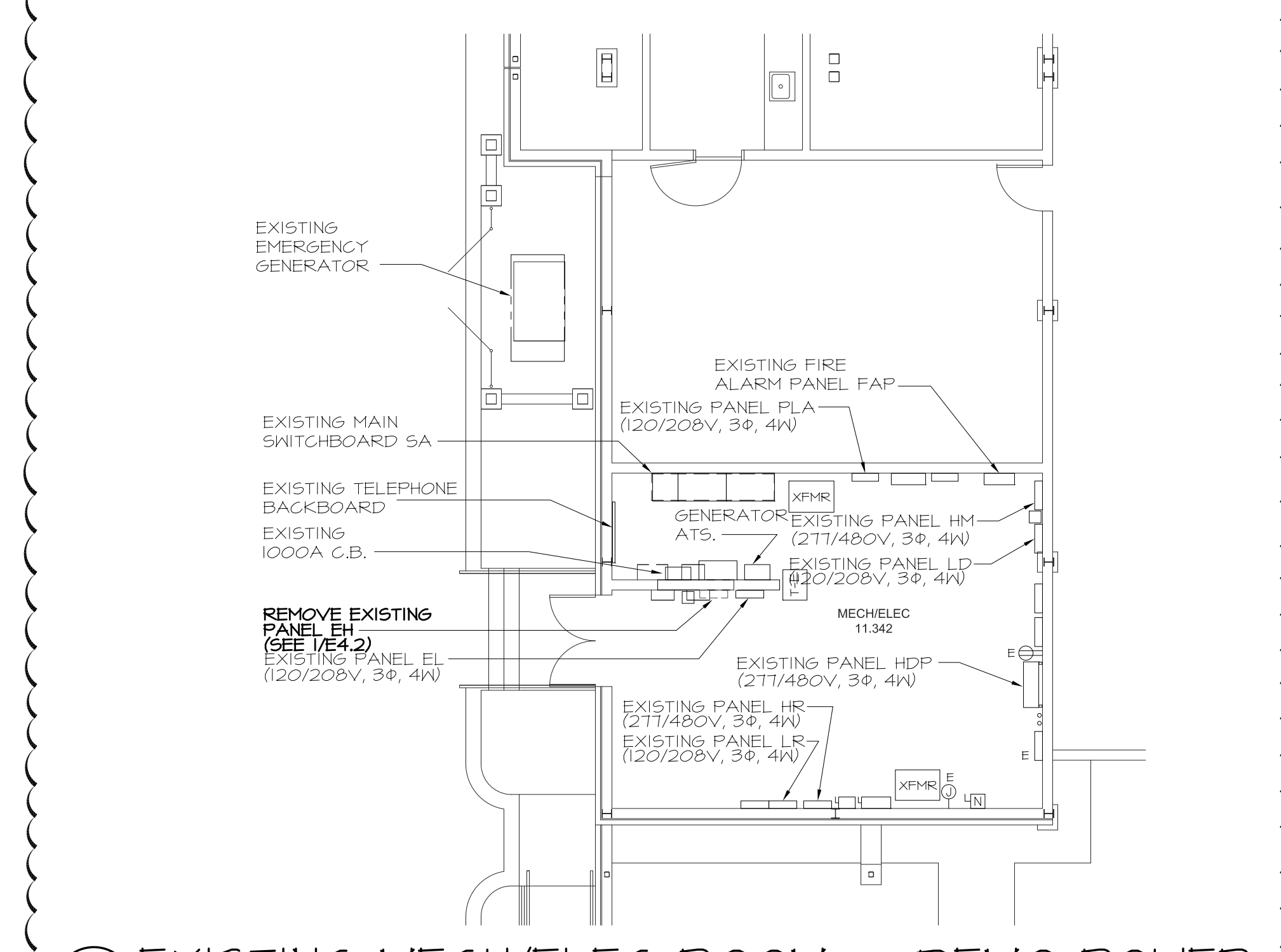
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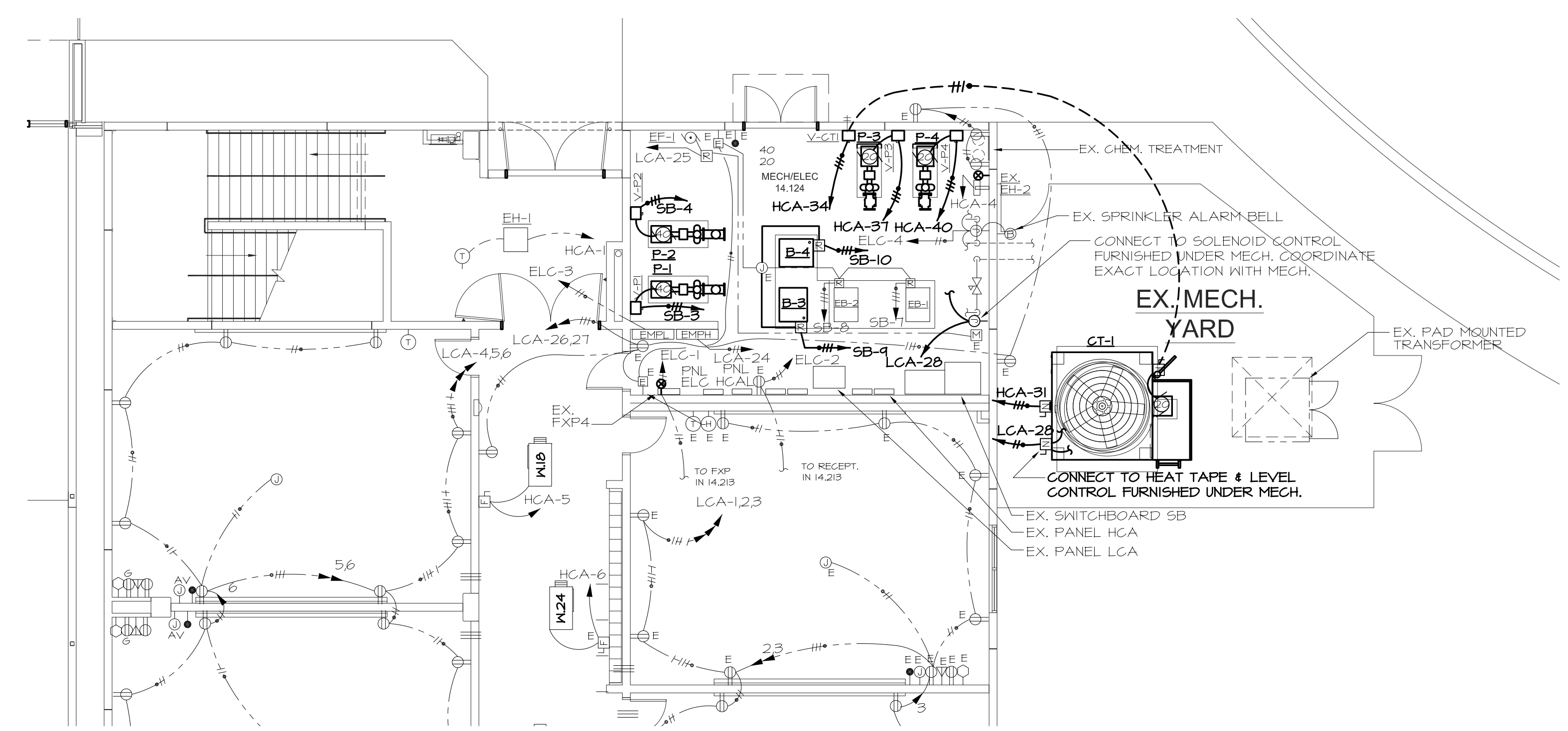
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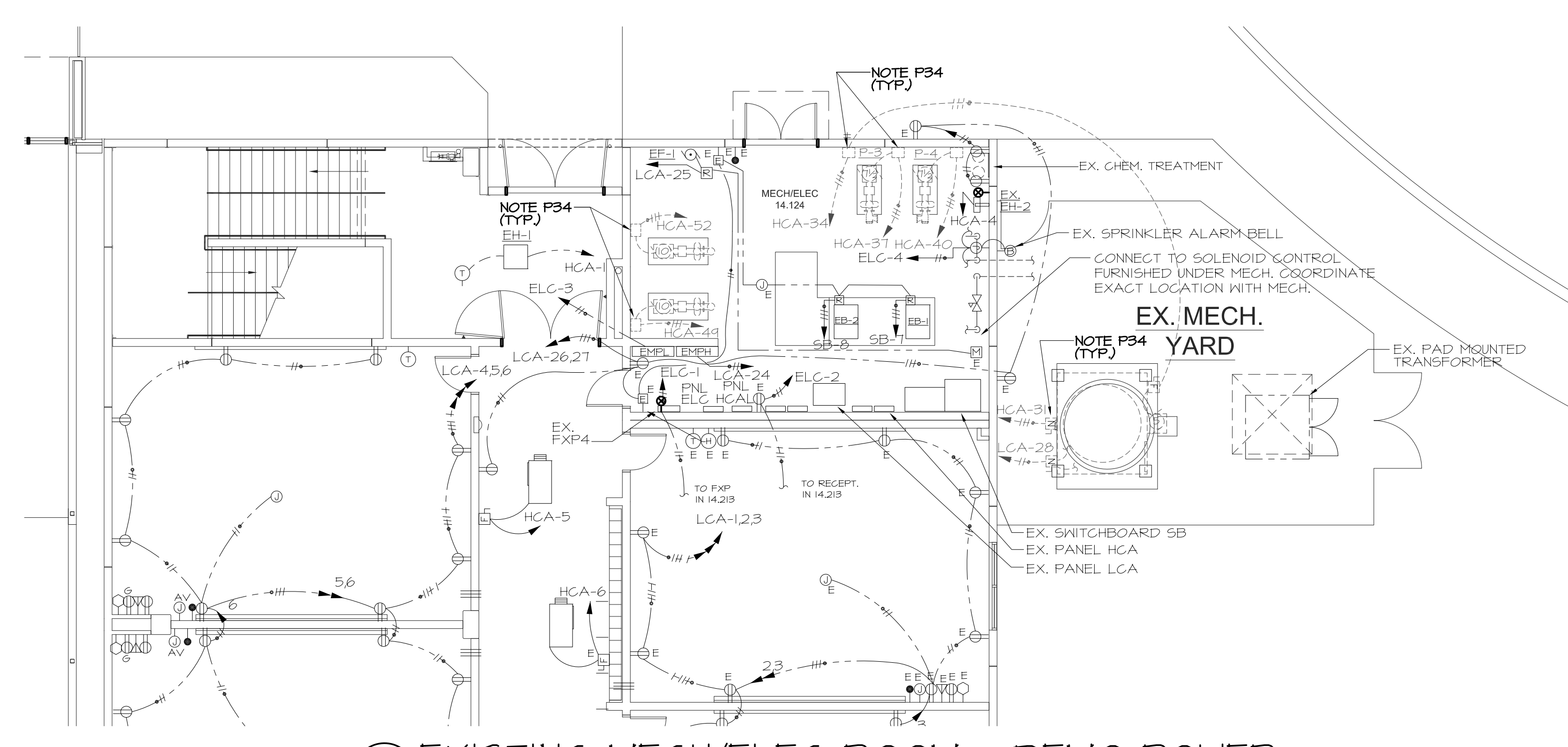
4 EXISTING MECH/ELEC ROOM - POWER  
E2.4/1/8"=1'-0"



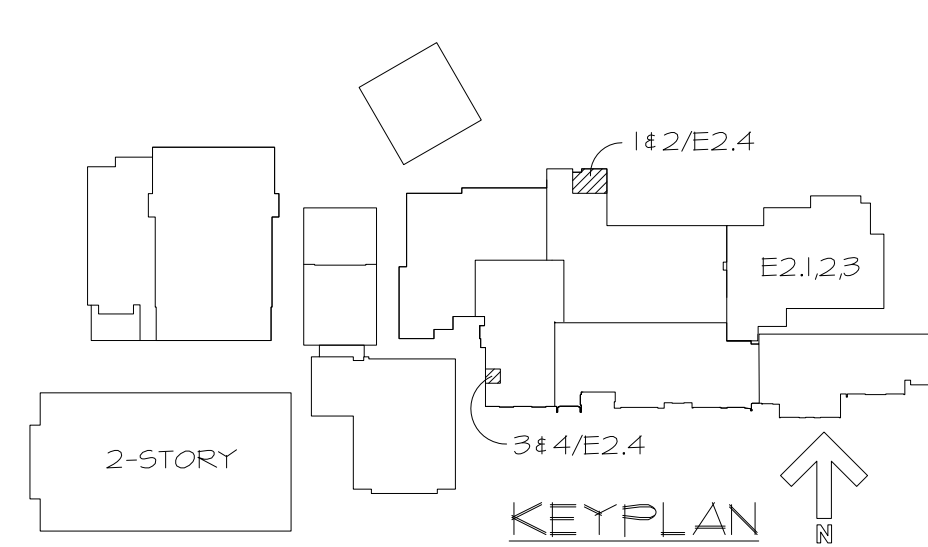
3 EXISTING MECH/ELEC ROOM - DEMO POWER  
E2.4/1/8"=1'-0"



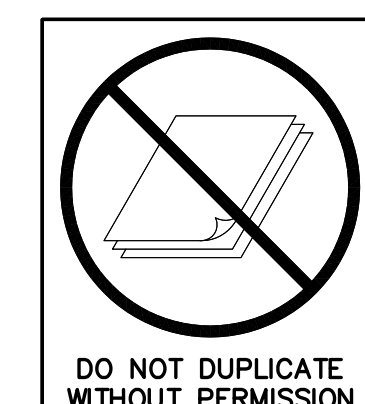
2 EXISTING MECH/ELEC ROOM - POWER  
E2.4/1/8"=1'-0"



1 EXISTING MECH/ELEC ROOM - DEMO POWER  
E2.4/1/8"=1'-0"



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SEE SHEET E2.1 FOR REFERENCED POWER NOTES.

8A JOB NO. 212

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12/30/2021	ISSUE FOR BID	
12/31/2021	ADDENDUM NO. 4	
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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 11, 2021

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JOB NO.: SHL-D01-21

DRG. BY: G.T.R.

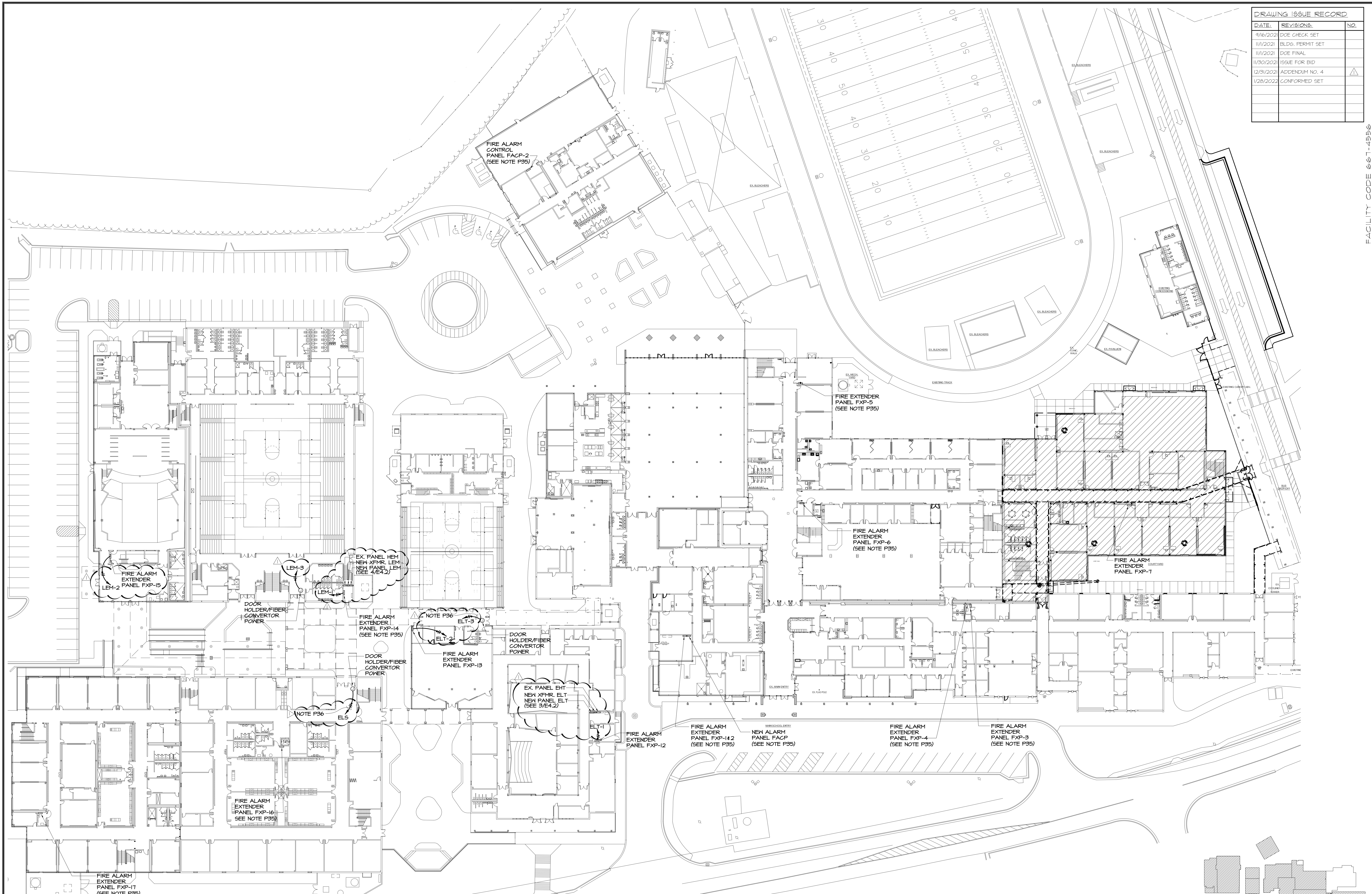
CHK. BY: GLK.

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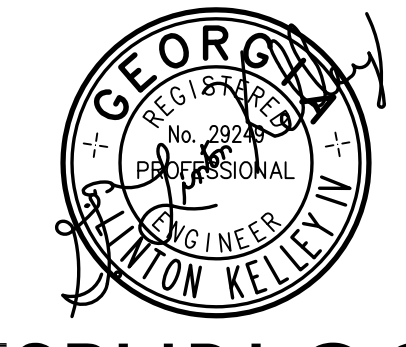
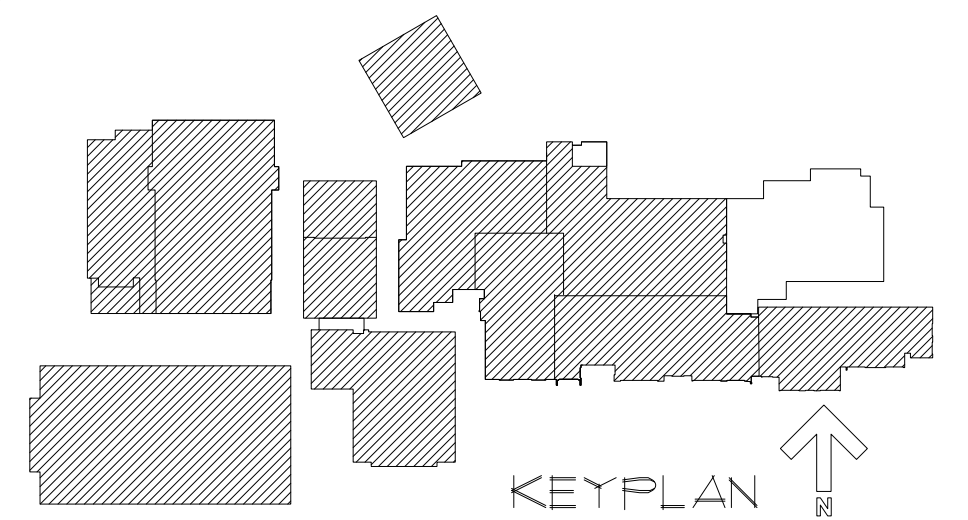
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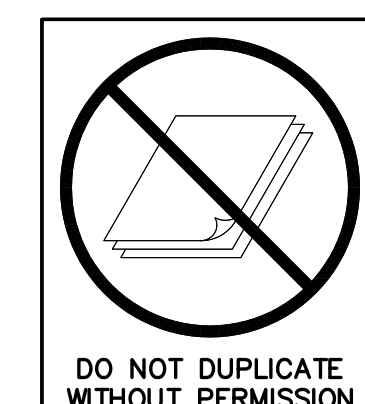
**E2.5**



1 MAIN LEVEL FLOOR PLAN - POWER  
 E2.5 1/32"=1'-0"

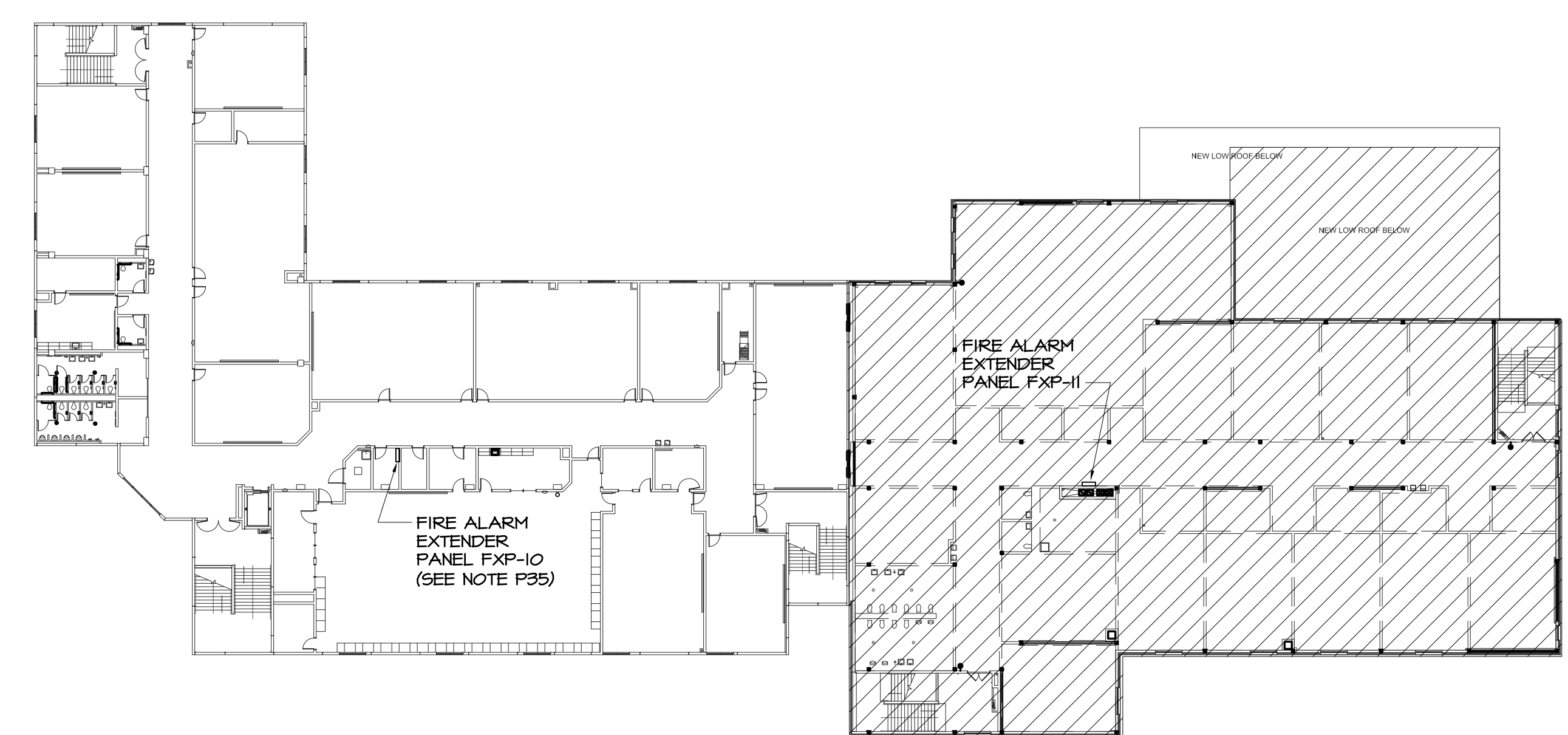


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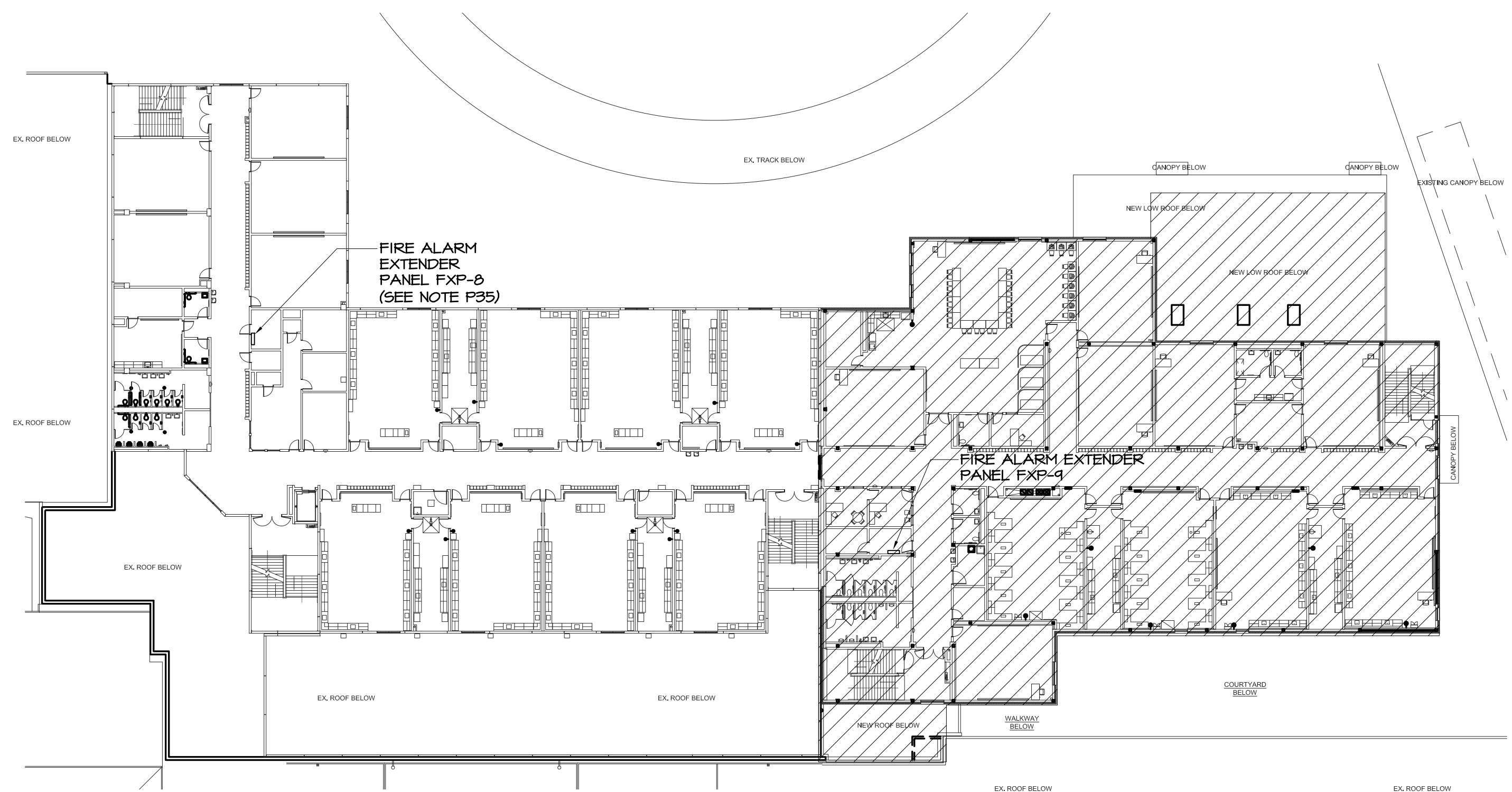


SEE SHEET E2.1 FOR REFERENCED POWER NOTES.

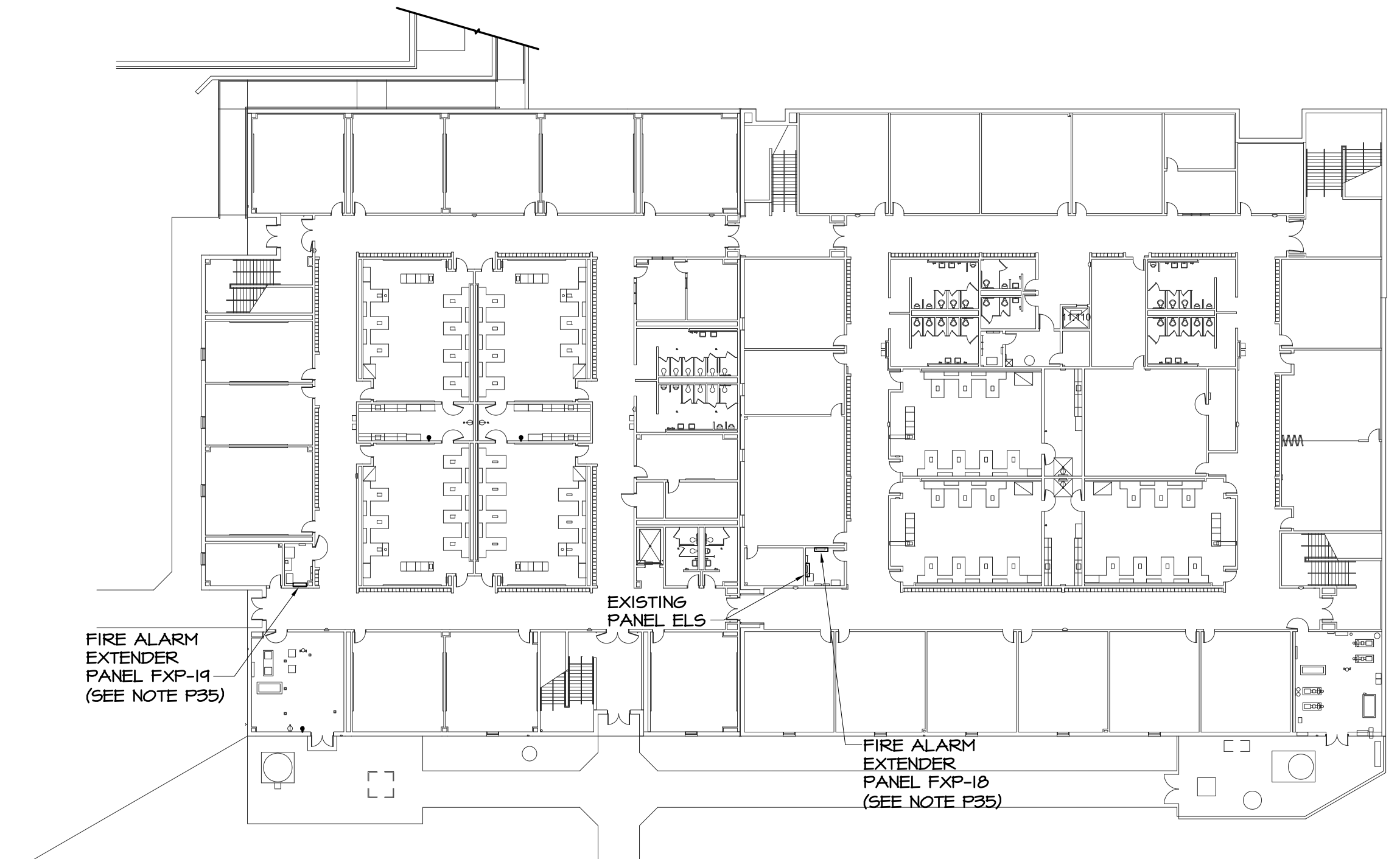
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DATE	REVISIONS	NO.
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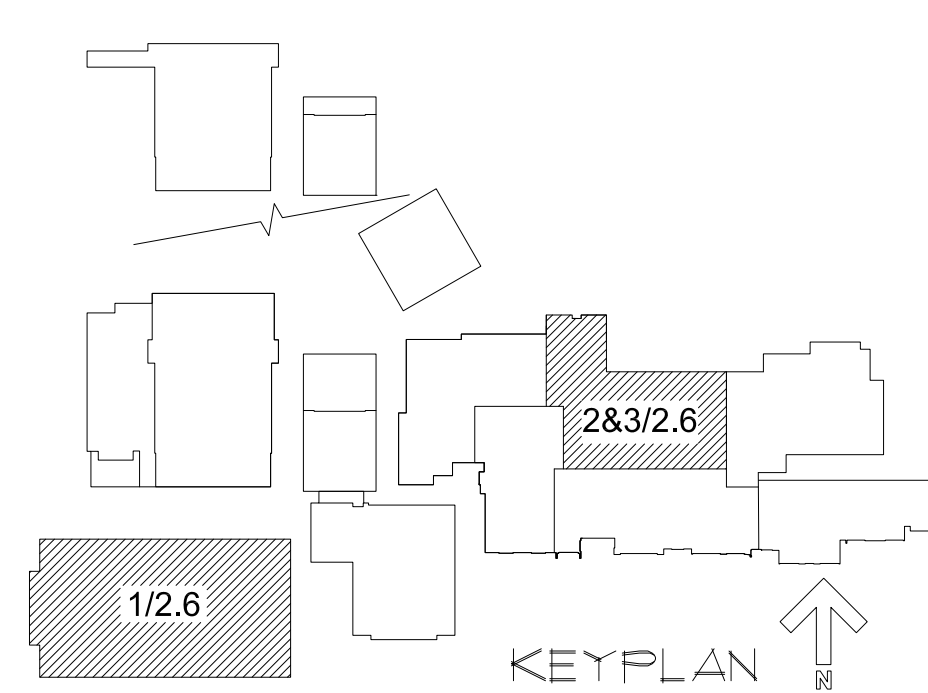
③ THIRD LEVEL FLOOR PLAN - POWER  
E2.6 1/32"=1'-0"



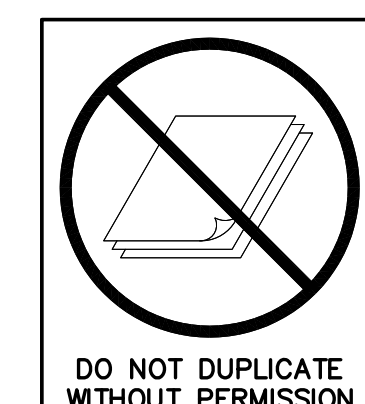
② SECOND LEVEL FLOOR PLAN - POWER  
E2.6 1/32"=1'-0"



① LOWER LEVEL FLOOR PLAN - POWER  
E2.6 1/32"=1'-0"



SEE SHEET E2.1 FOR REFERENCED POWER NOTES.



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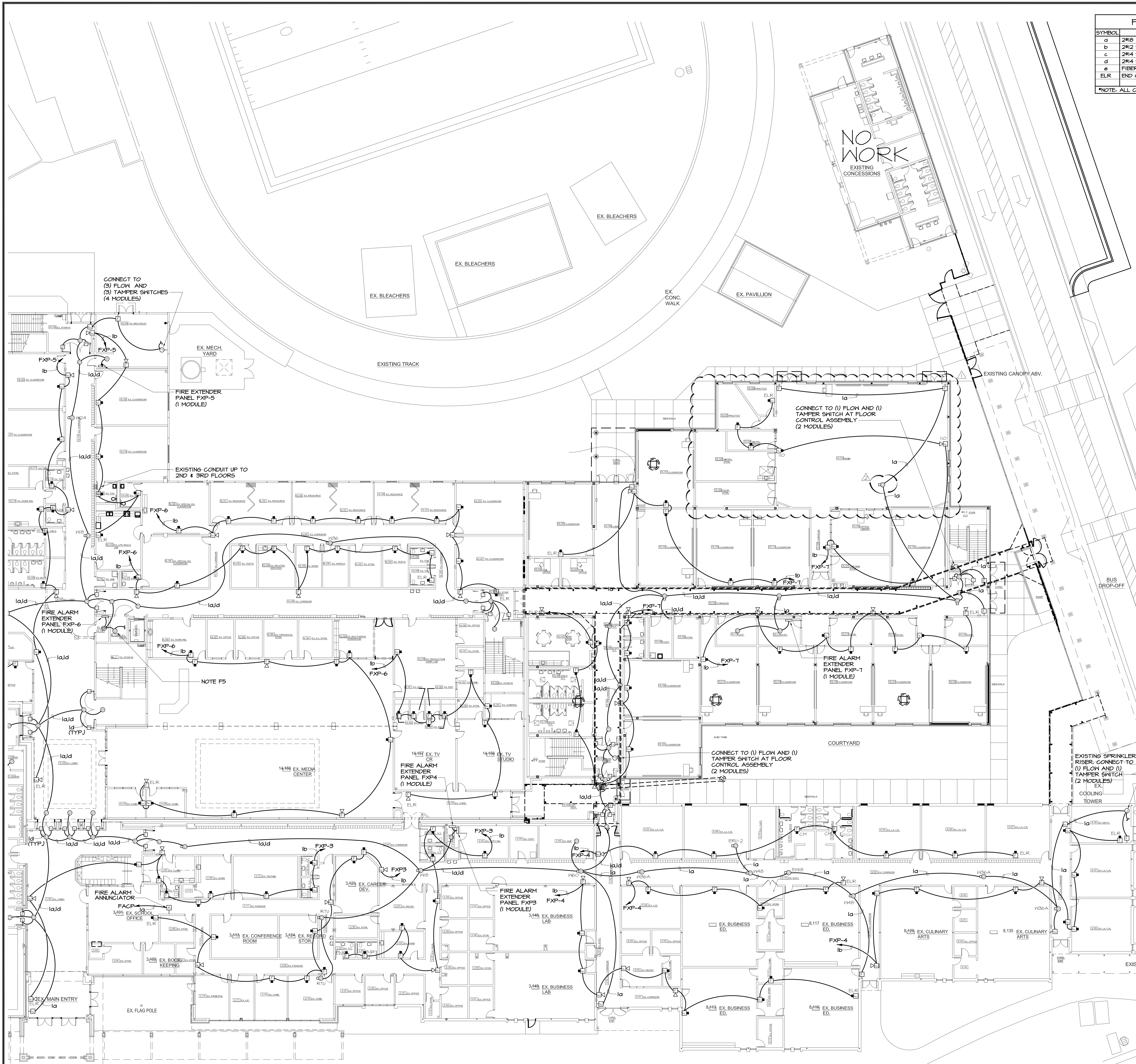
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
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GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

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**E2.6**

DATE MARCH 1, 2021	JOB NO. SHL-D01-21	DWG. BY G.T.R.	CHK. BY G.L.K.		
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FIRE ALARM WIRE LEGEND	
SYMBOL	DESCRIPTION
a	2#10 TH/SHLD WST PENN #25145 (COMMUNICATIONS)
b	2#12 SHLD WST PENN #60414 (SIGNAL)
c	2#14 SHLD WST PENN #60412 (POWER)
d	2#14 SHLD WST PENN #60412 (DOOR HOLDER POWER)
e	FIBER OPTIC CABLE (RATED FOR UNDERGROUND USE)
ELR	END OF LINE RESISTOR

\*NOTE: ALL CABLE IS PLENUM RATED

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1/11/2021	DOE FINAL	
1/30/2021	ISSUE FOR BID	
1/16/2021	ADDENDUM NO. 2	
1/21/2021	ADDENDUM NO. 3	
1/28/2021	CONFORMED SET	

**GENERAL FIRE ALARM NOTES:** (APPLIES TO SHEETS E3.1 THRU E-3.1)

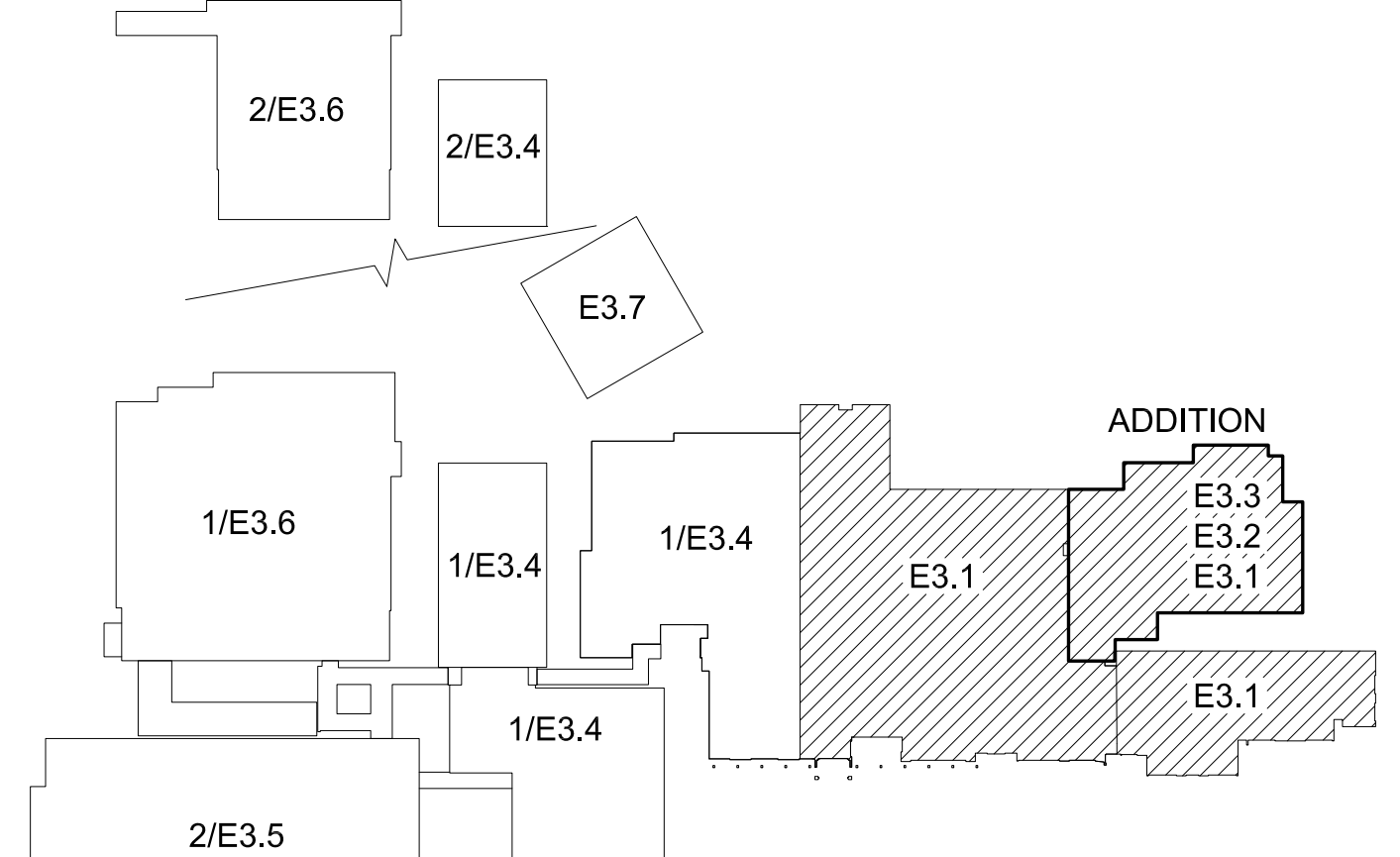
- ALL PENETRATIONS THROUGH FIRE WALLS AND RATED FLOOR SLABS SHALL BE FIRE STOPPED WITH 3M FIRE BARRIER OR EQUAL PRODUCT MEETING UL 1474 OR ASTM E814 FIRE RATINGS IN ACCORDANCE WITH ARTICLE 300-21 OF THE NATIONAL ELECTRICAL CODE.
- ALL AREAS OF BUILDINGS EXCEPT CORRIDORS HAVE RETURN AIR PLENUMS ABOVE CEILING. ALL MATERIALS WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- FIRE ALARM SYSTEM TO BE PROVIDED IN ACCORDANCE WITH THE GWINNETT COUNTY FIRE PROTECTION AND LIFE SAFETY ORDINANCE. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT FROM THE GWINNETT COUNTY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION.
- AUDIBLE/VISUAL SIGNAL APPLIANCES SHALL COMPLY WITH THE REQUIREMENTS OF 2020 ADA ANNUAL FIRE ALARM SYSTEM TEST CERTIFICATE AT THE TIME OF FINAL INSPECTION.
- PROVIDE AN ANNUAL FIRE ALARM SYSTEM TEST CERTIFICATE AT THE TIME OF FINAL INSPECTION.
- PROVIDE DETAIL DIAGRAM AT FACP SHOWING THE LOCATION OF ALL DITEK SURGE DEVICES.
- PROVIDE DETAIL DIAGRAM AT FACP SHOWING THE LOCATION OF ALL POWER EXTENDER PANELS.
- HAD P-TOUCH LABEL WHITE BACKGROUND AND RED LETTERS TO EACH PULL STATION STATING THE ITS ADDRESS WITHIN THE FACP PROGRAMMING.
- NEW FIRE ALARM SYSTEM TO CONNECT DIRECTLY TO EXISTING MONITORING SERVICE WITH TWO FORMS OF COMMUNICATION.
- ALL ABANDONED FIRE ALARM CONDUCTORS, DEVICES, AND COMPONENTS SHALL BE COMPLETELY DEMOLISHED AND REMOVED FROM SITE. ALL ABANDONED IN WALL BOXES SHALL BE BLANKED WITH STAINLESS STEEL FACED PLATE AND ALL ABANDONED SURFACE MOUNTED CONDUIT AND BOXES SHALL BE DEMOLISHED. NO EXISTING FIRE ALARM PANEL OF BOX SHALL BE UTILIZED AS A JUNCTION BOX FOR NEW INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF FIREWALLS/CEILING/FLOORS THEY SHALL PENETRATE OR REMOVE OLD WIRING FROM THESE PENETRATIONS SHALL BE PATCHED AS WORK PROGRESSES TO ELIMINATE DEFICIENCIES FROM FIRE MARSHAL INSPECTIONS.
- CONTRACTOR TO TURN DEMOLISHED FACP OVER TO THE GC/PS SUWANEE BUILDING MAINTENANCE.
- EXISTING FIRE ALARM SYSTEM MUST REMAIN ACTIVE UNTIL NEW FIRE ALARM SYSTEM IS FULLY FUNCTIONAL.

**REFERENCED FIRE ALARM NOTES:** (APPLIES TO SHEETS E3.1 THRU E3.7)

- DISCONNECT AND REMOVE EXISTING SIMPLEX FIRE ALARM SYSTEM TO INCLUDE FIRE ALARM CONTROL PANEL IN MAIN BUILDING AND FIELD HOUSE, EXTENDER PANELS, DEVICES AND WIRING AND ACCESSIBLE CONDUIT.
- ROUTE ONE TYPE a CABLE FROM FACP TO MDF ROOM AND MAKE CONNECTION TO INTERCOM SYSTEM AS DESCRIBED IN THE SPECIFICATIONS.
- ROUTE THREE TYPE a CABLES FROM FACP TO TELEPHONE BACK BOARD FOR DIALING OUT.
- INSTALL ADDRESSABLE MODULE IN JUNCTION BOX FOR CONNECTION TO FIRE SUPPRESSION SYSTEM IN RANGEHOOD.
- CONNECT TO ELEVATOR CONTROLLER W/ADDRESSABLE RELAYS AS DIRECTED BY ELEVATOR SUPPLIER.
- PROVIDE (4) WIRE TO FIBER CONVERTERS IN FACP FOR CONNECTION TO REMOTE BUILDINGS.
- PROVIDE (2) WIRE TO FIBER CONVERTERS IN FACP-2 FOR CONNECTION TO REMOTE BUILDINGS.
- PROVIDE FIBER TO WIRE CONVERTER IN NEMA 1 ENCLOSURE WITH 24V TRANSFORMER AND ADDRESSABLE RELAY FOR CONTROL POWER TO NEW DOOR HOLDERS.

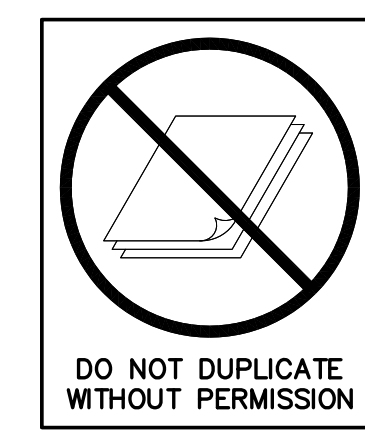
NOTE: THIS NOTE MUST BE ON SHOP DRAWINGS SUBMITTED TO THE FIRE MARSHAL FOR APPROVAL.

A CENTRAL INTERCOM SYSTEM ON EMERGENCY POWER LOCATED IN RECEPTION AREA PROVIDES VOICE ANNOUNCEMENT NOTIFICATION TO ALL CLASSROOMS AND ASSEMBLY AREAS AS REQUIRED BY PARAGRAPH 12.3.4.3.3 OF NFPA 101, THE NATIONAL LIFE SAFETY CODE.



KEY PLAN

1 MAIN LEVEL ADDITION FLOOR PLAN - FIRE ALARM  
E3.1/1/16"=1'-0"

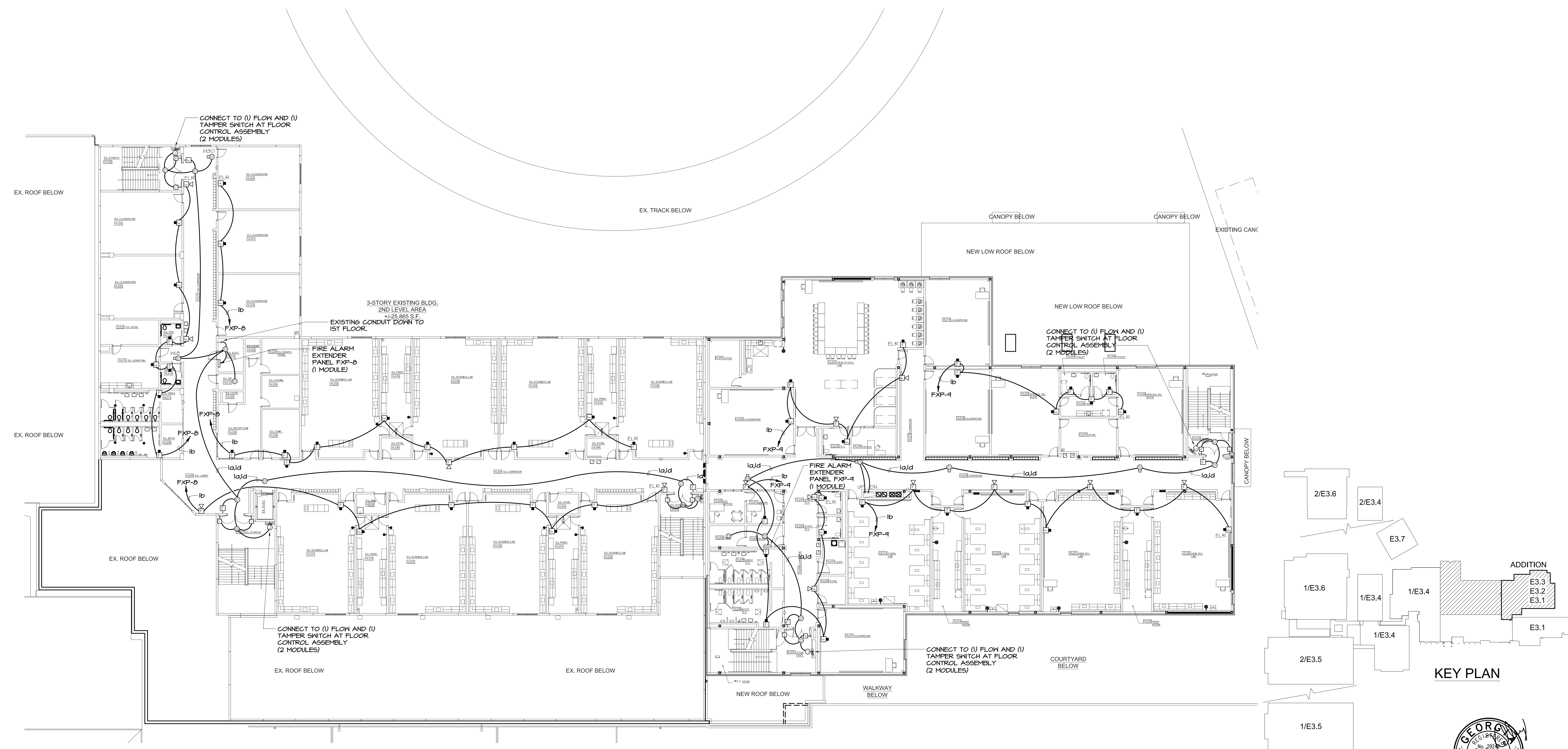


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 NORTH GWINNETT HIGH SCHOOL EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 11, 2021  
 JOB NO.: SH-190-21  
 DWG. BY: G.T.R.  
 OK. BY: G.L.K.  
**E3.1**

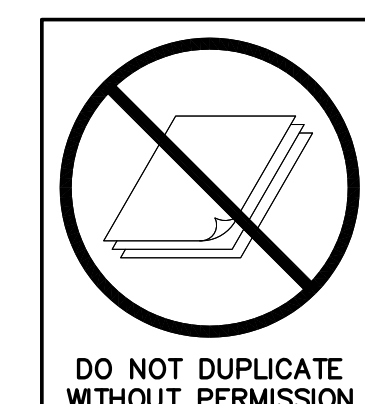
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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 JOB NO.: SHL-D01-21  
 DWG. BY: GTR  
 CK. BY: GLK



1 SECOND LEVEL FLOOR PLAN - FIRE ALARM  
 E3.2 1/16"=1'-0"

SEE SHEET E3.1 FOR GENERAL AND REFERENCED FIRE ALARM NOTES.



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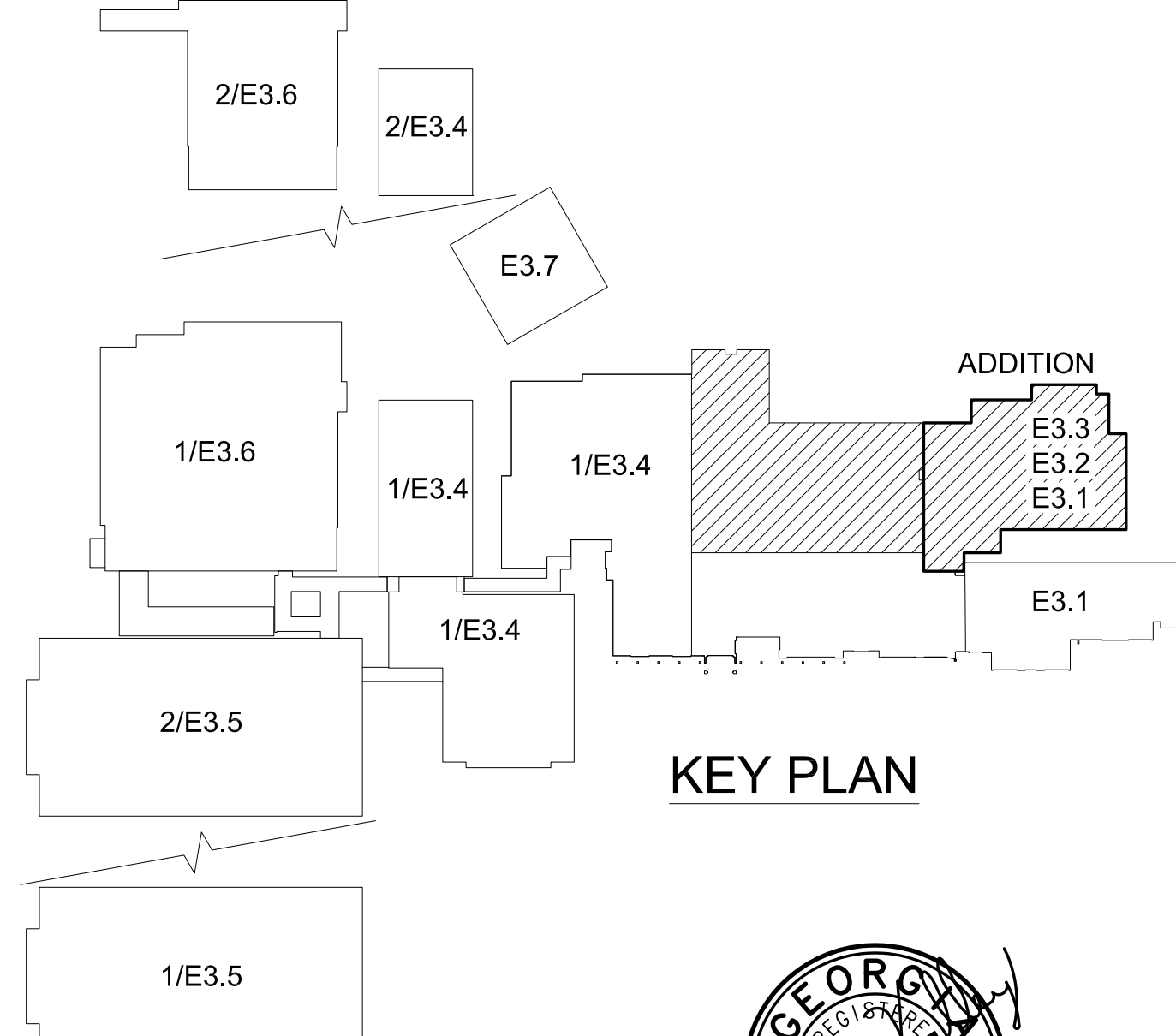
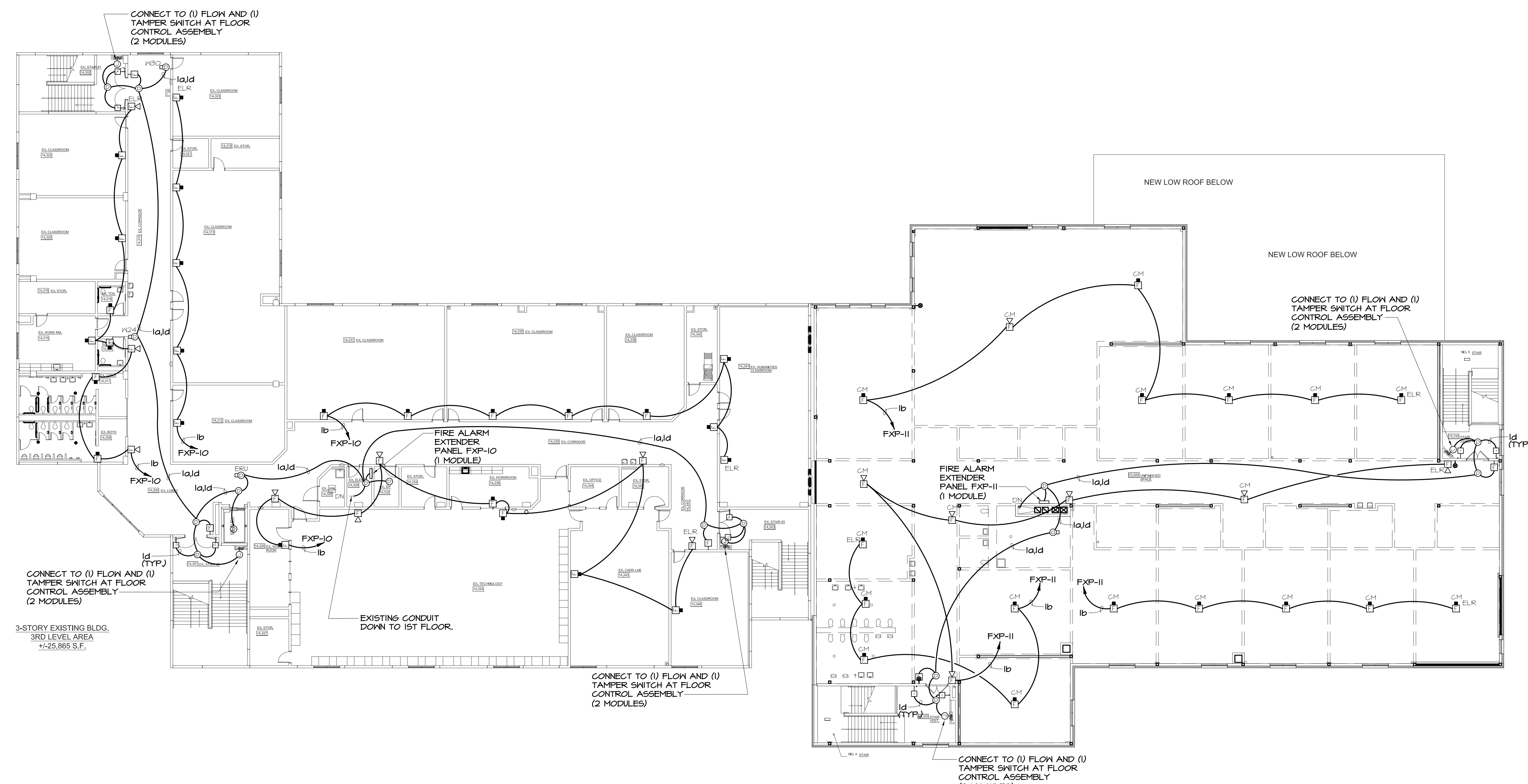
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**E3.2**

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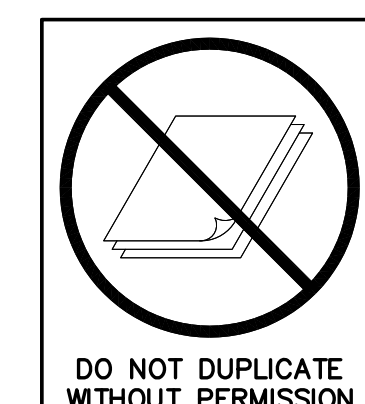
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
 JOB NO.: SHL-D01-21  
 DWG. BY: G.T.R.  
 CK. BY: G.L.K.



**1 THIRD LEVEL FLOOR PLAN - FIRE ALARM**  
 E3.3/ 1/16"=1'-0"

SEE SHEET E3.1 FOR GENERAL AND REFERENCED FIRE ALARM NOTES.



**SPURLOCK & ASSOCIATES, INC.**  
 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
 P: 404.633.0245 | F: 404.633.1756  
 84 JOB NO. 212

**cunningham forehand matthews moore**  
 cunningham, forehand, matthews & moore, architects, inc. - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152

DATE	REVISIONS	NO.
4/16/2021	DDE CHECK SET	
1/11/2021	BLDG. PERMIT SET	
1/11/2021	DDE FINAL	
1/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021

DWG. BY: G.T.R.

CHK. BY: G.L.K.

JOB NO. 541-001-21

DATE: MARCH 1, 2021

PHONE: (404) 873-2152

ADDRESS: 2011 MANCHESTER STREET, N.E., ATLANTA, GEORGIA 30324

COMPANY: CUNNINGHAM, FOREHAND, MATTHEWS & MOORE, ARCHITECTS, INC.

PROJECT: EAST ADDITION

DATE: MARCH 1, 2021

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PROJECT: EAST ADDITION

DATE: MARCH 1, 2021

BY: G.T.R.

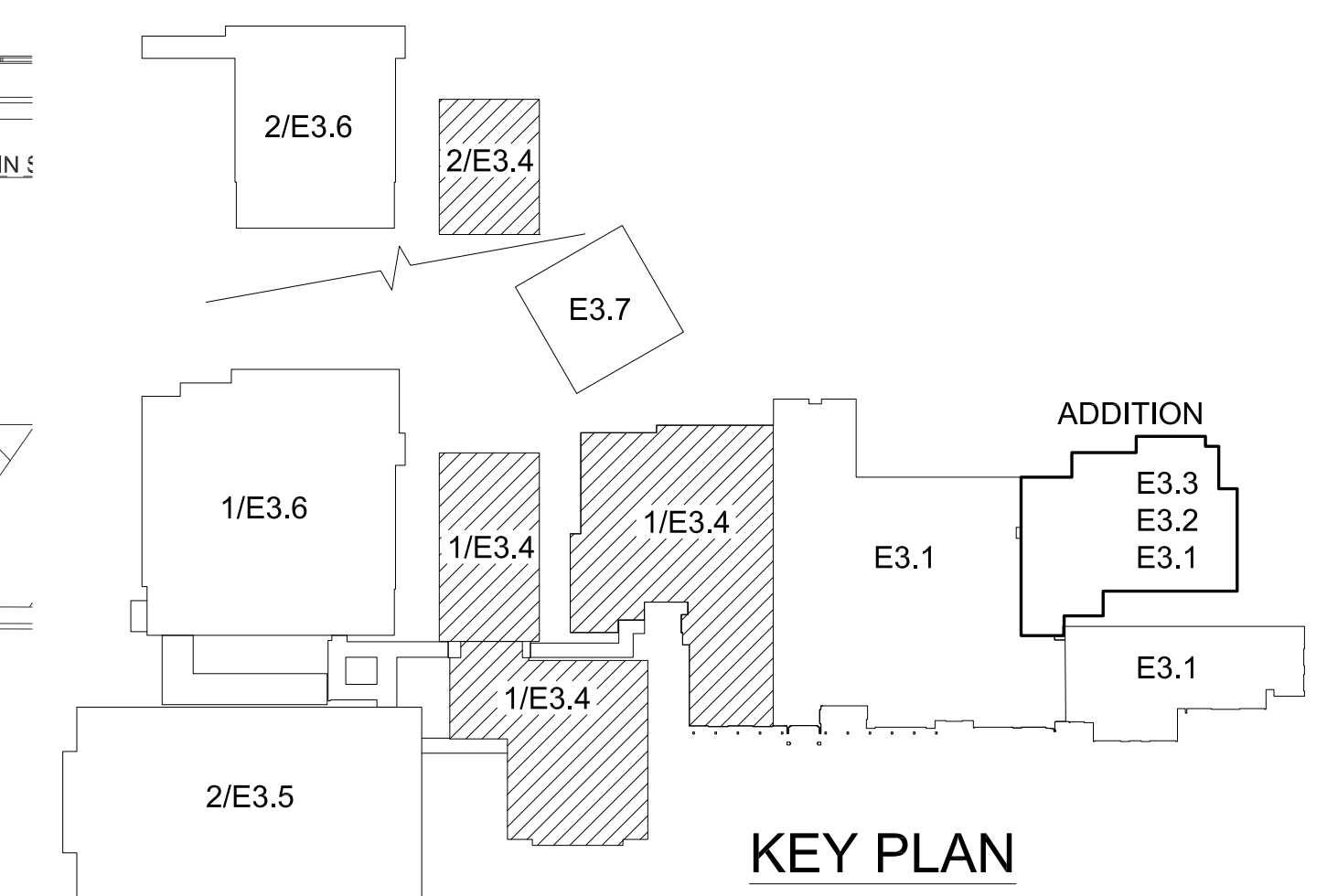
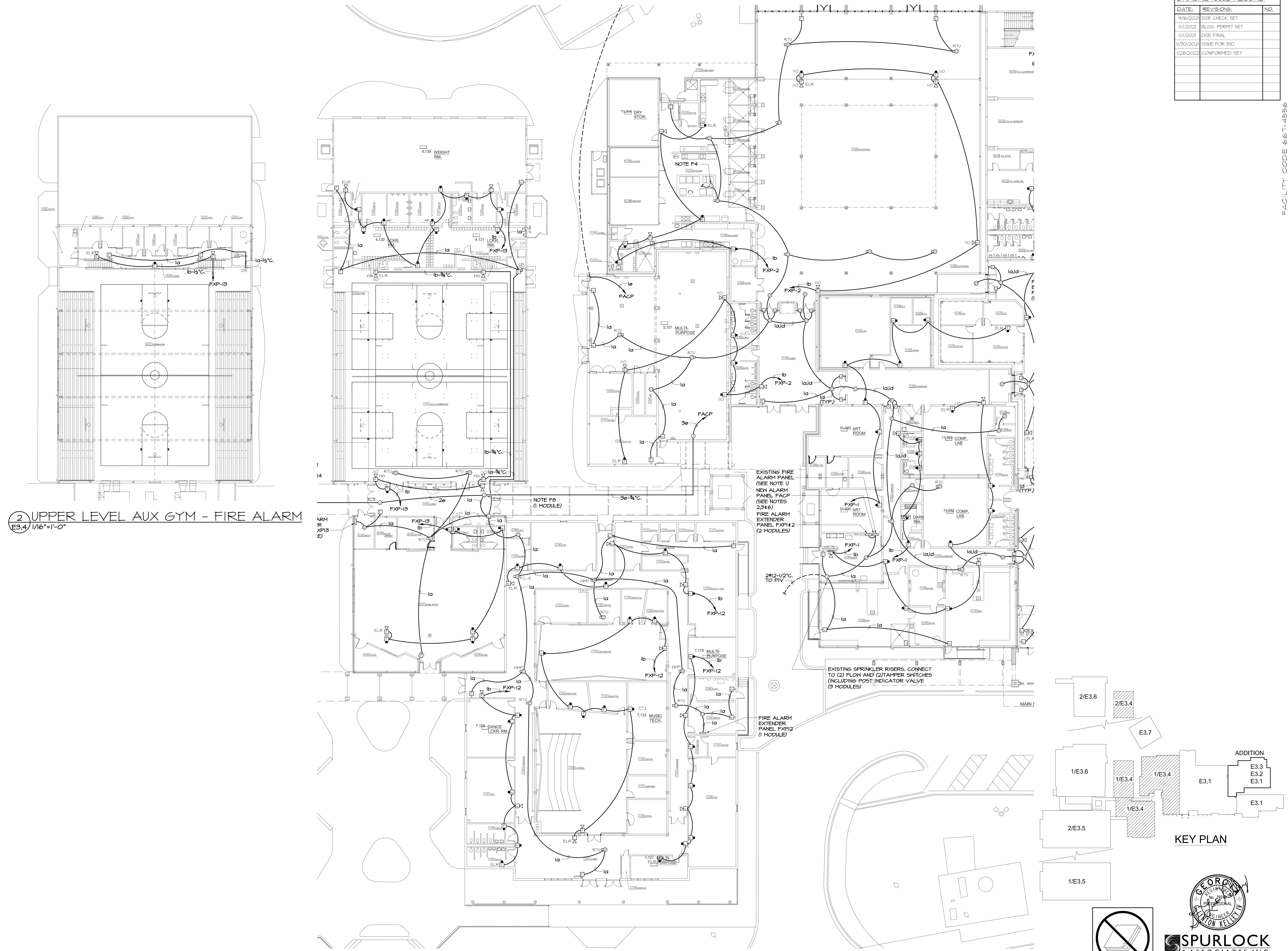
CHK: G.L.K.

JOB NO. 541-001-21

DATE: MARCH 1, 2021

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**E3.4**



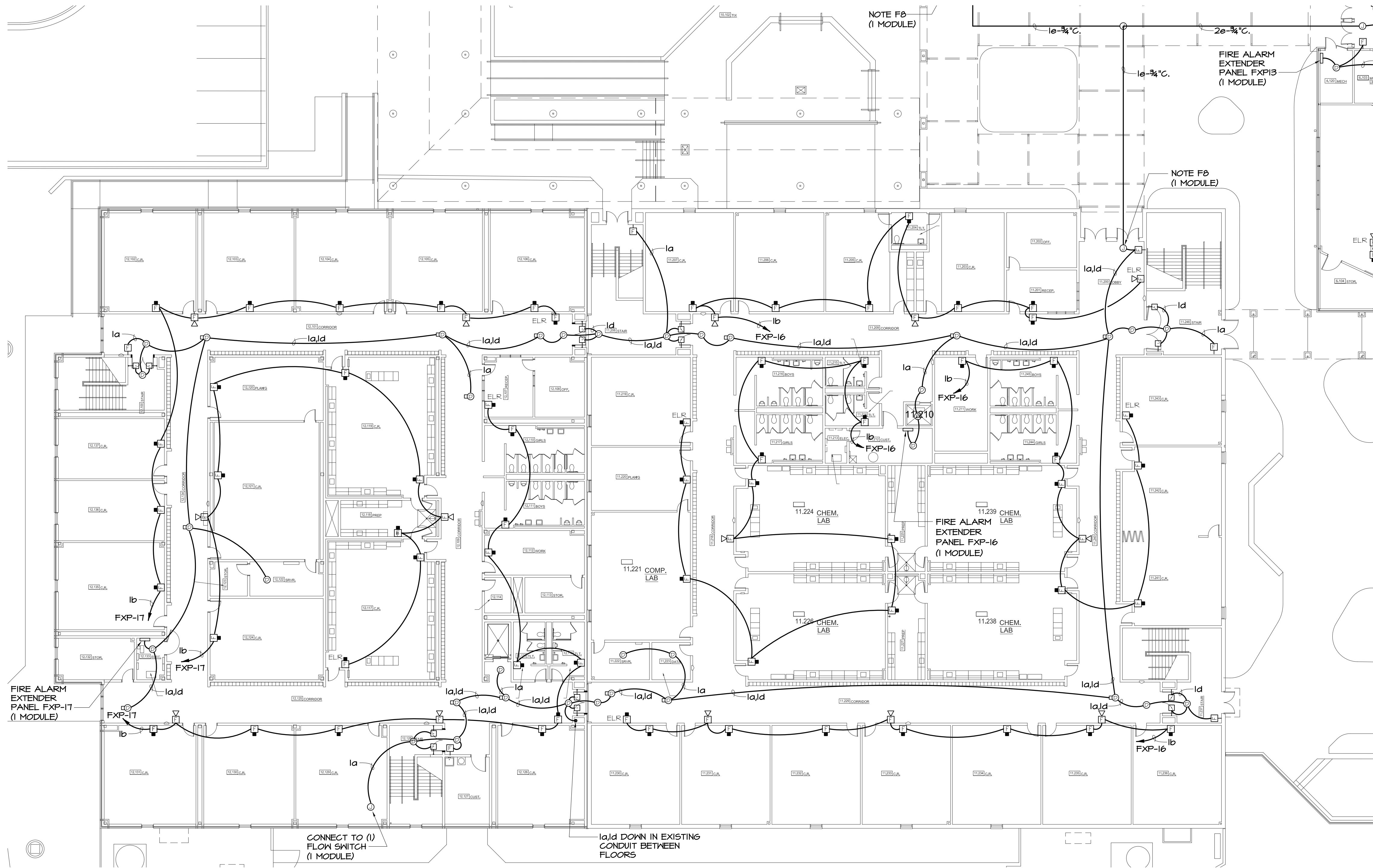
**2 UPPER LEVEL AUX GYM - FIRE ALARM**  
 E3.4/ 1/16"=1'-0"

**1 MAIN LEVEL FLOOR PLAN - FIRE ALARM**  
 E3.4/ 1/16"=1'-0"

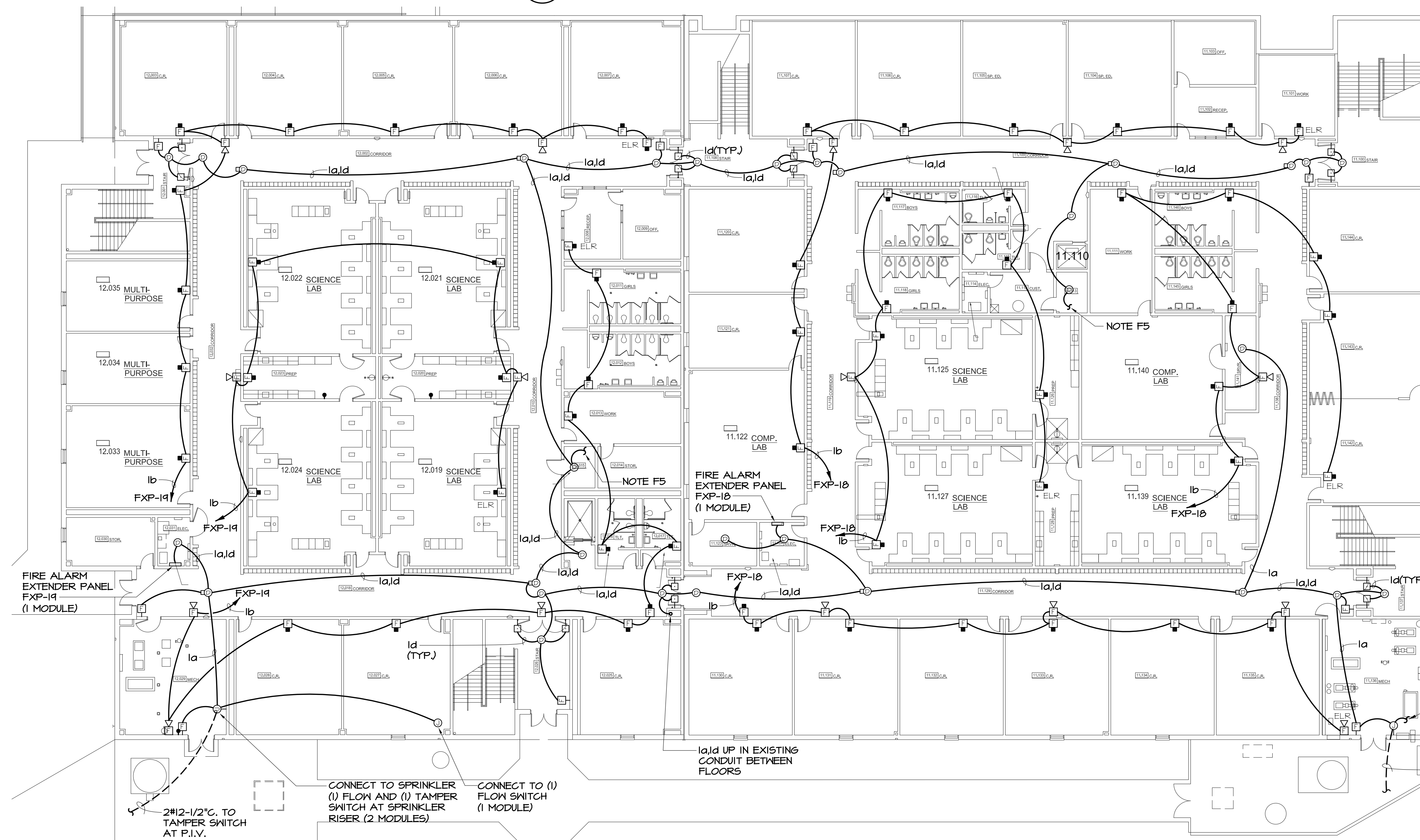
SEE SHEET E3.1 FOR GENERAL AND REFERENCED FIRE ALARM NOTES.



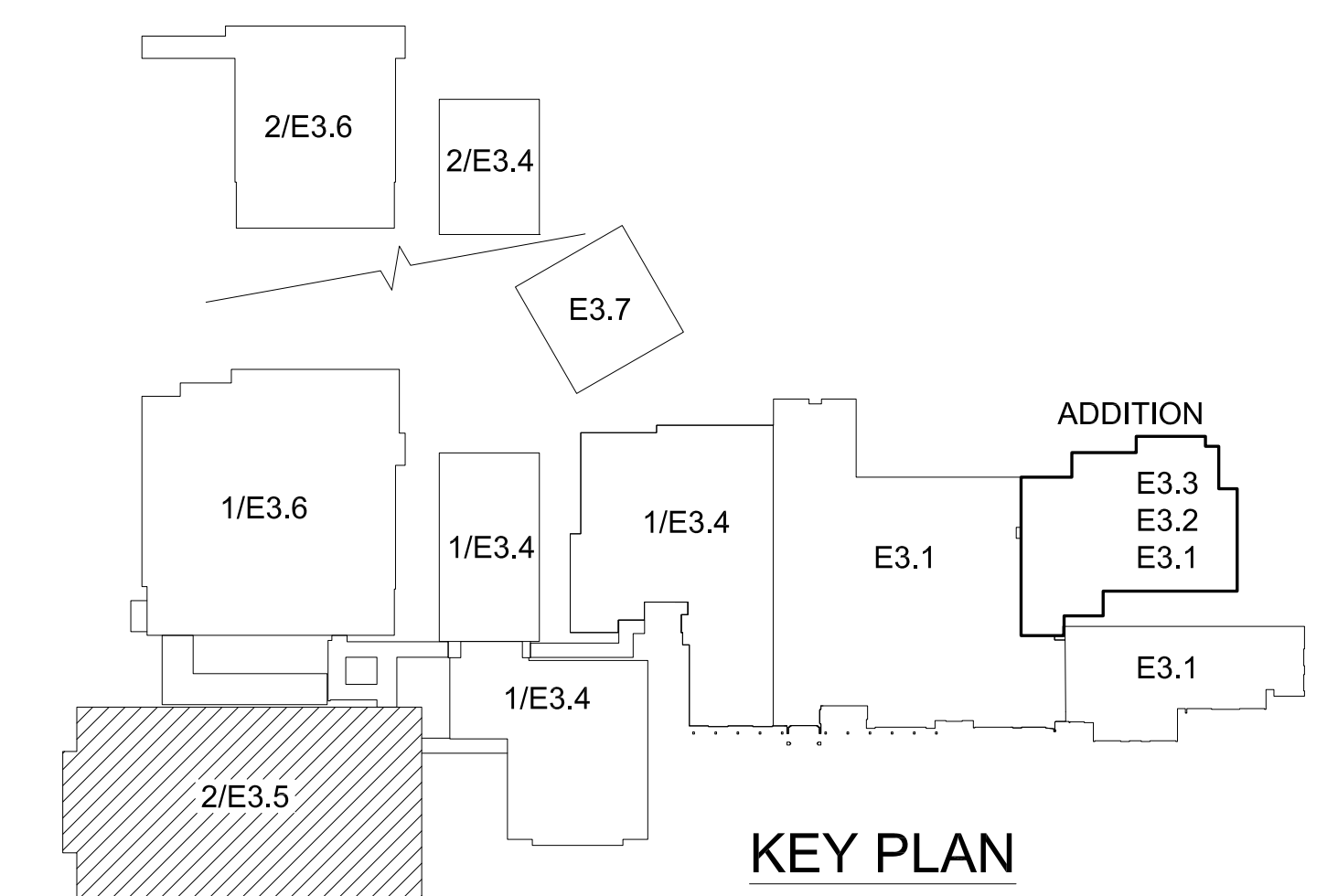




3 UPPER LEVEL FLOOR PLAN - FIRE ALARM  
E3.1 1/16"=1'-0"



1 LOWER LEVEL FLOOR PLAN - FIRE ALARM  
E3.5 1/16"=1'-0"

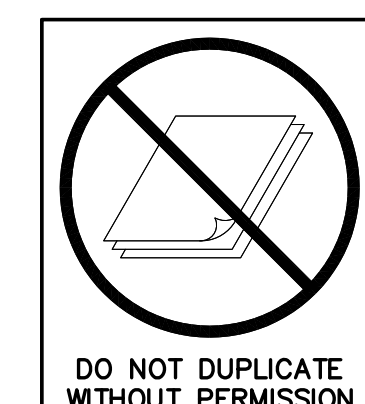


KEY PLAN

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
4/16/2021	DOE CHECK SET	
11/1/2021	BLDG. PERMIT SET	
11/1/2021	DOE FINAL	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

FACILITY CODE 667-4556  
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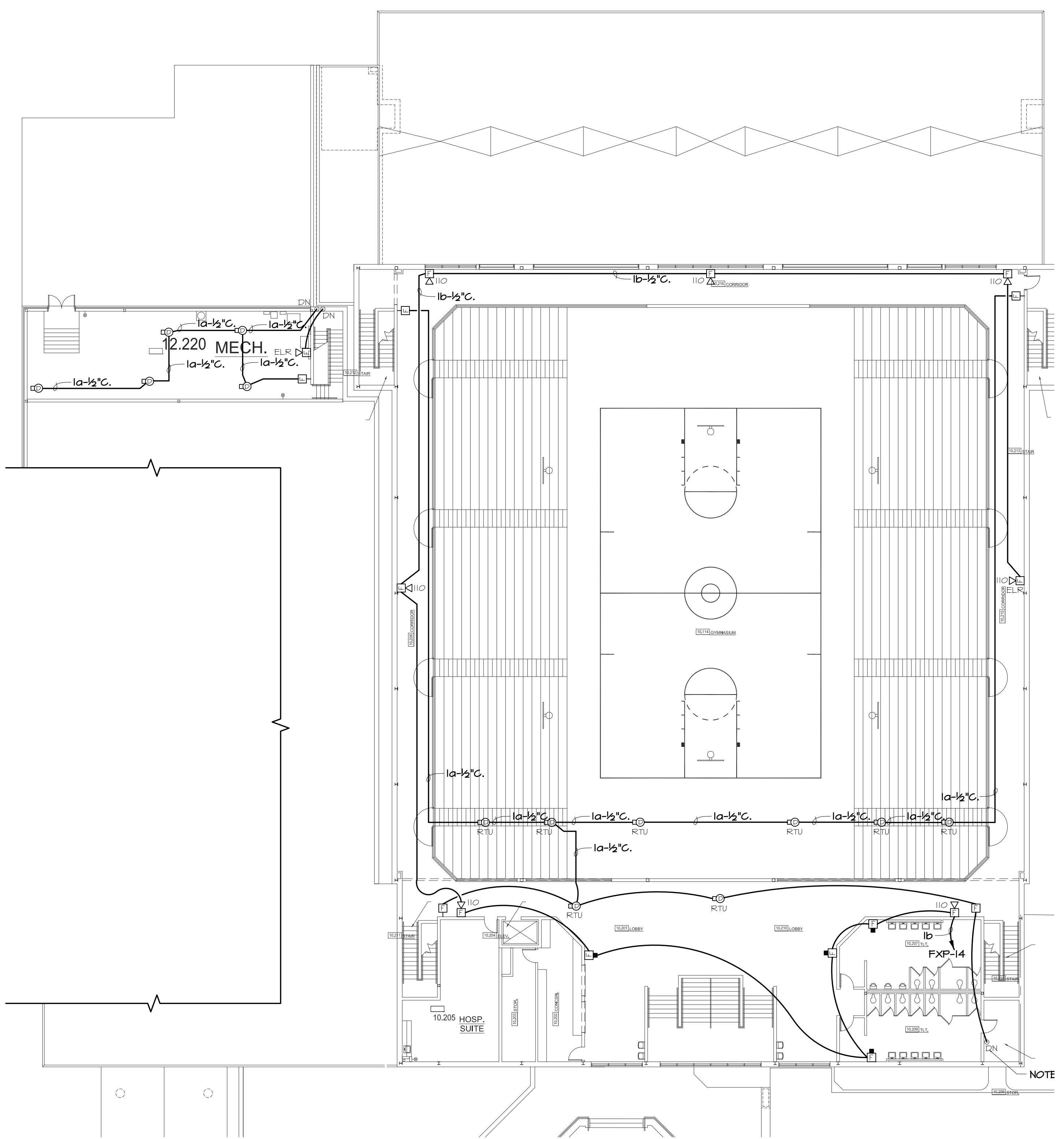


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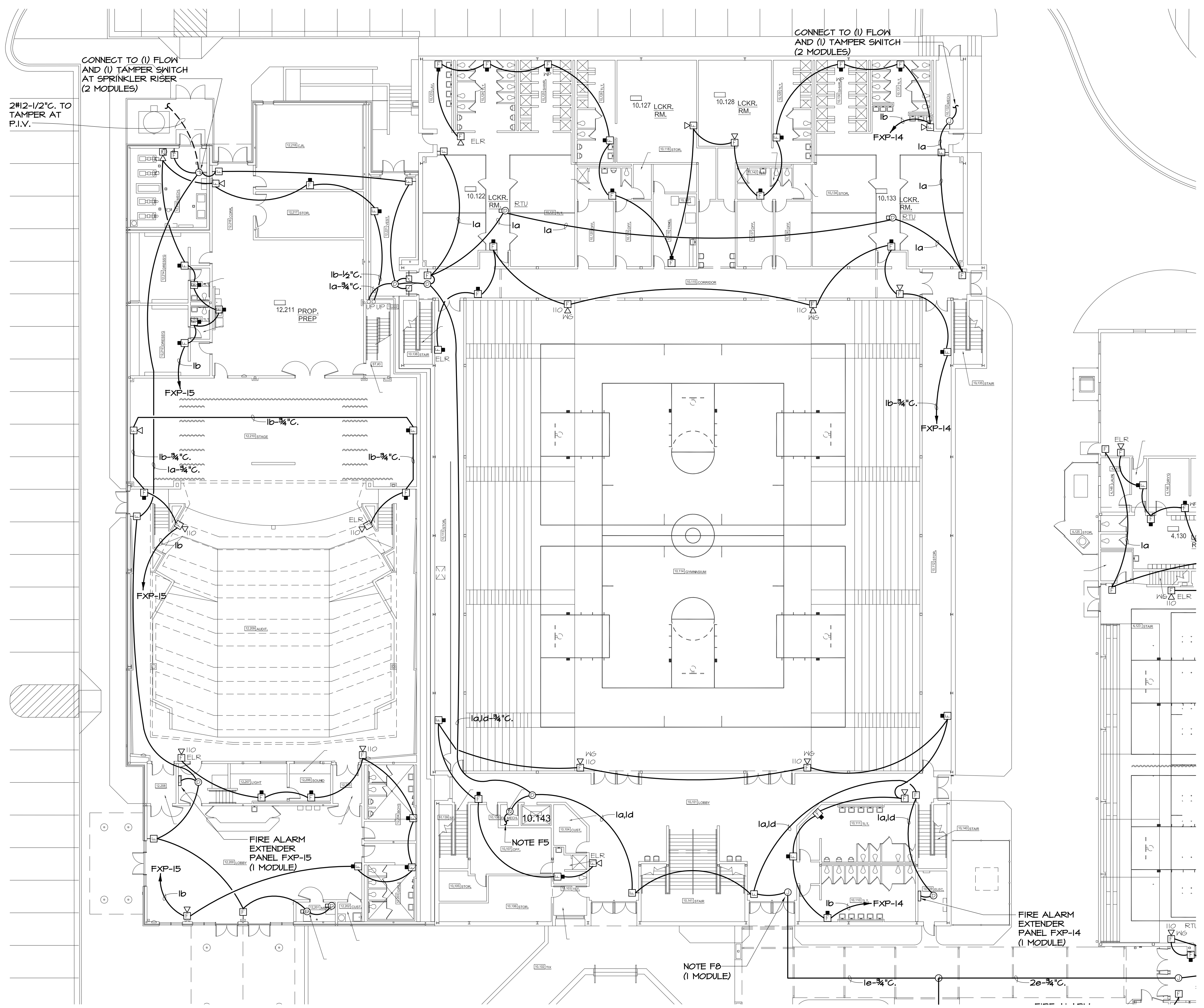
**E3.5**

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
4/16/2021	DDE CHECK SET	
1/11/2021	BLDG. PERMIT SET	
1/11/2021	DDE FINAL	
1/30/2021	ISSUE FOR BID	
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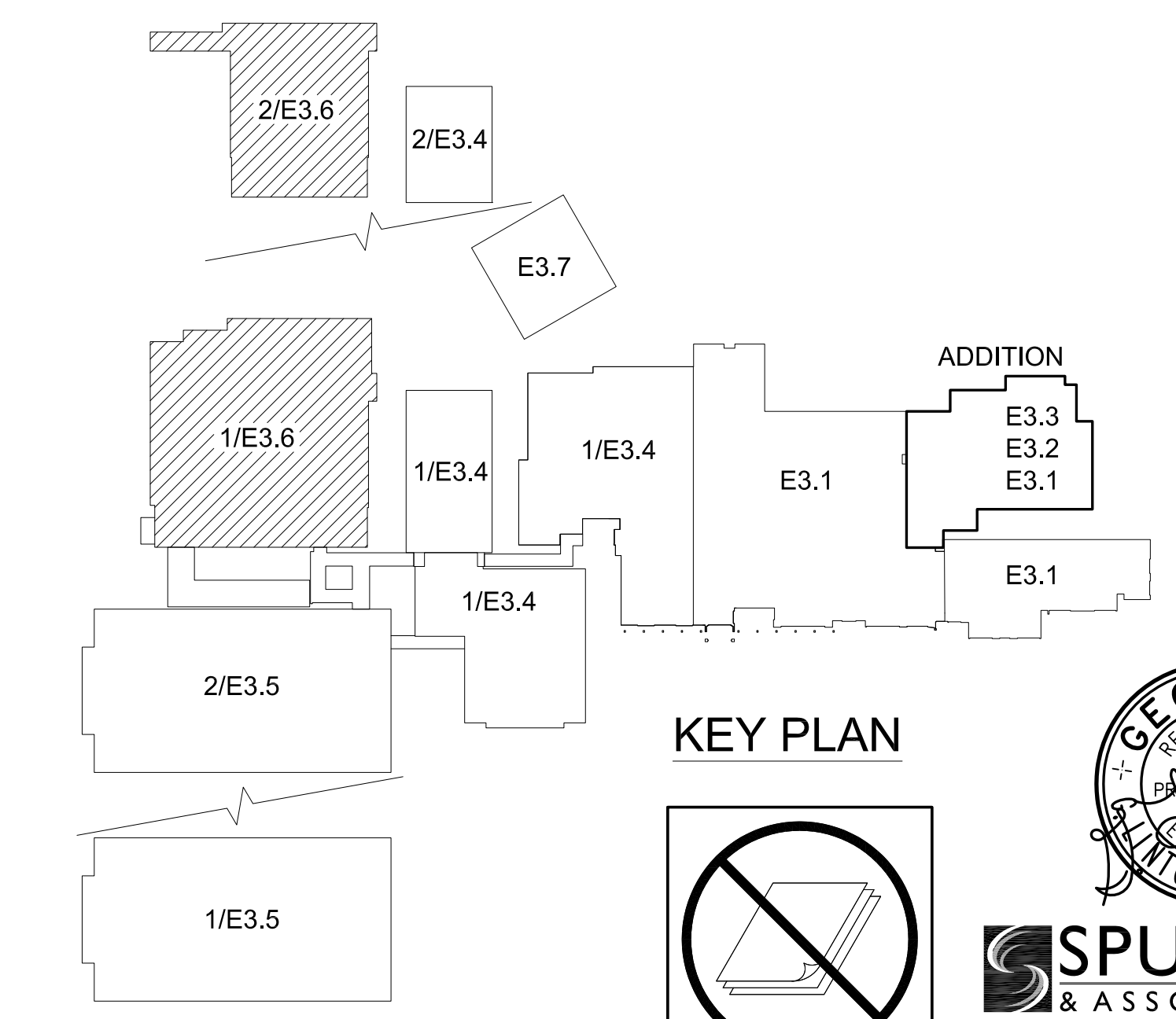
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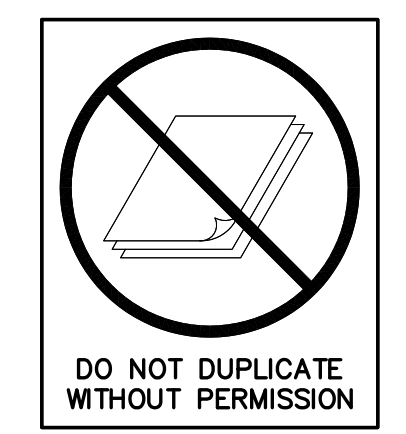
2 UPPER LEVEL FLOOR PLAN - FIRE ALARM  
 E3.6 1/16"=1'-0"



1 MAIN LEVEL FLOOR PLAN - FIRE ALARM  
 E3.6 1/16"=1'-0"



KEY PLAN



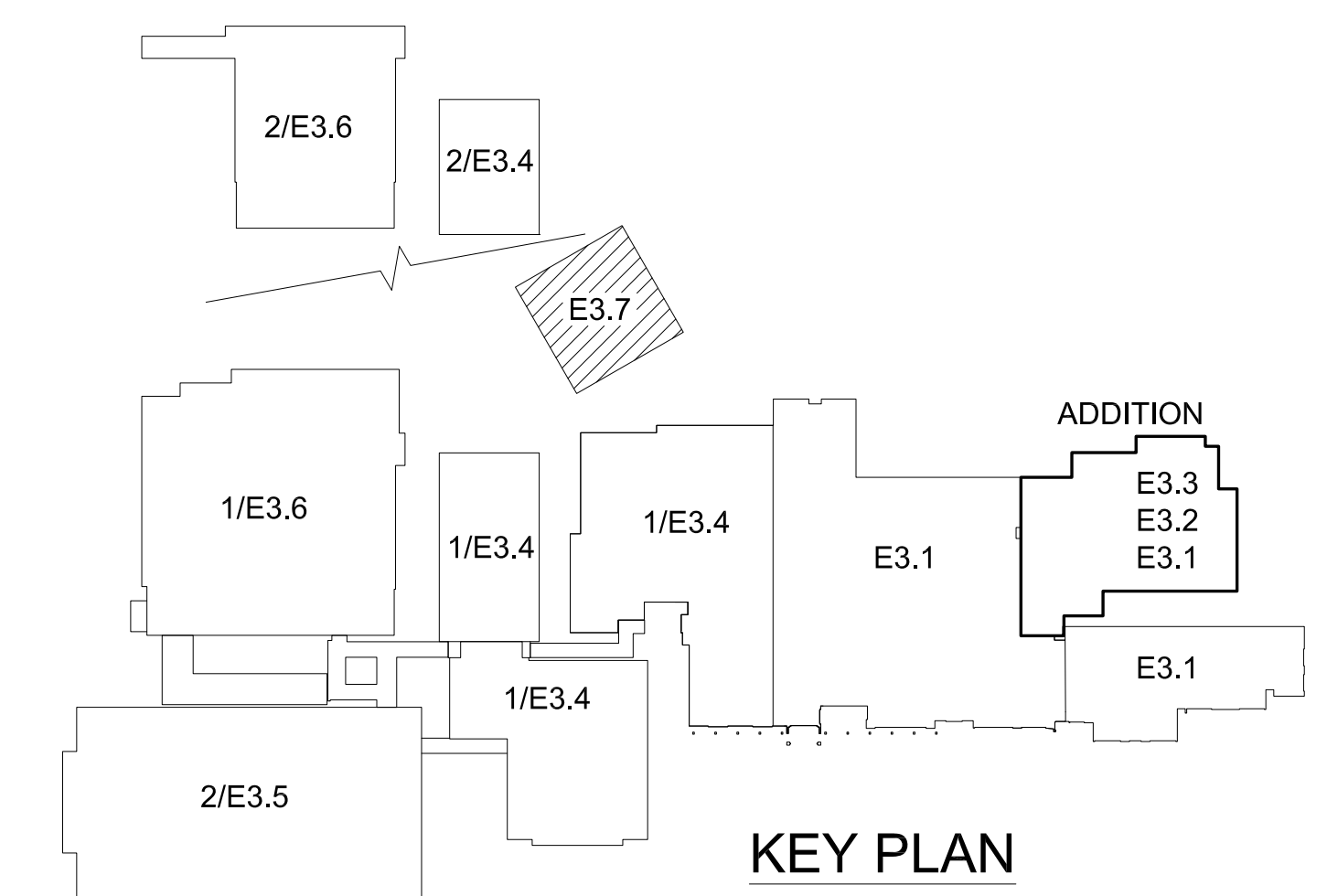
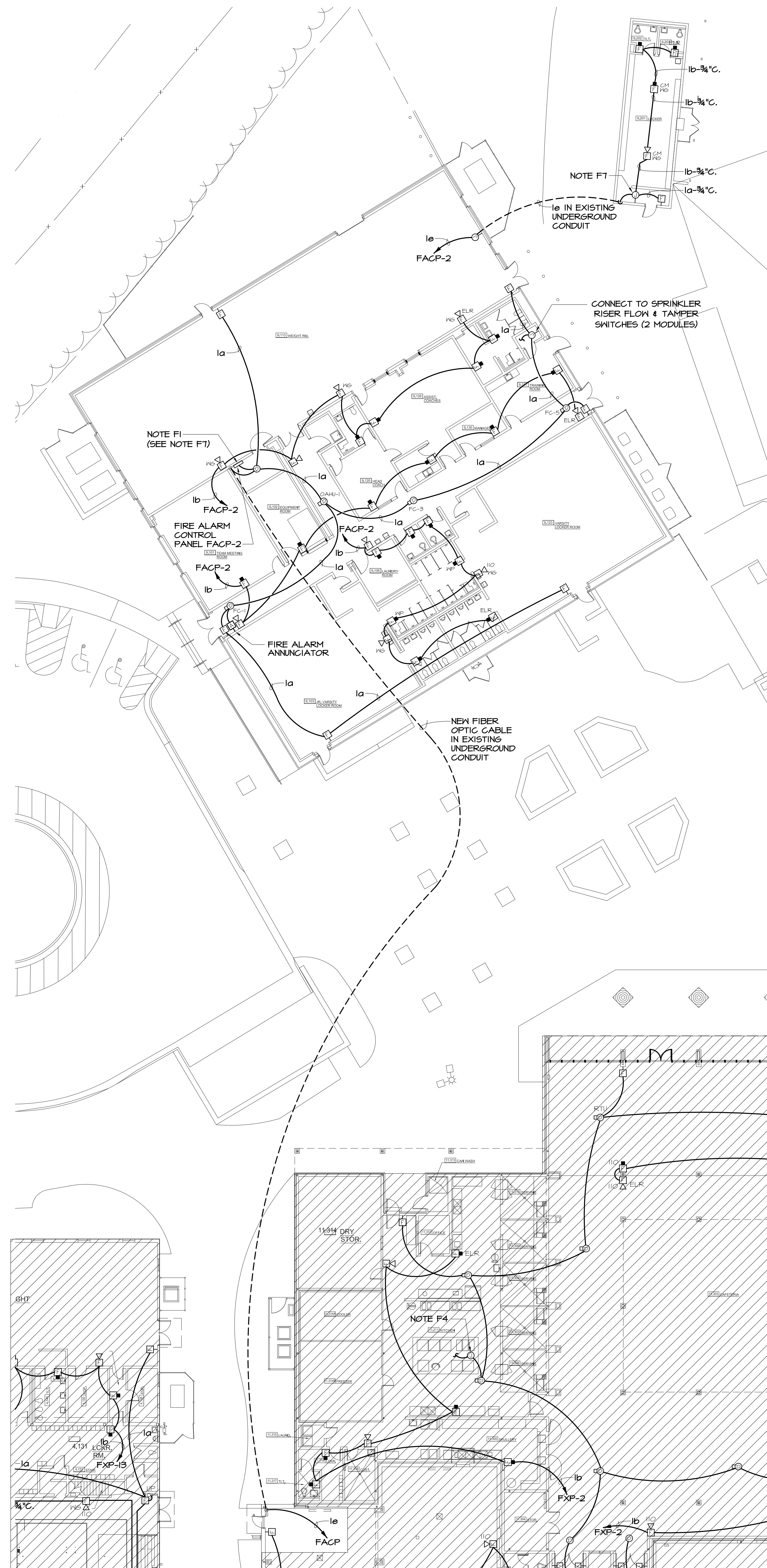
DO NOT DUPLICATE WITHOUT PERMISSION

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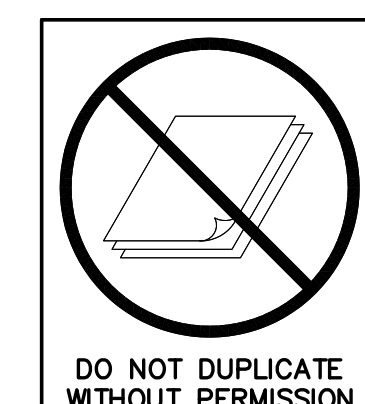
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1 FIELD HOUSE FLOOR PLAN - FIRE ALARM  
E3.1 1/16"=1'-0"

SEE SHEET E3.1 FOR GENERAL AND REFERENCED FIRE ALARM NOTES.



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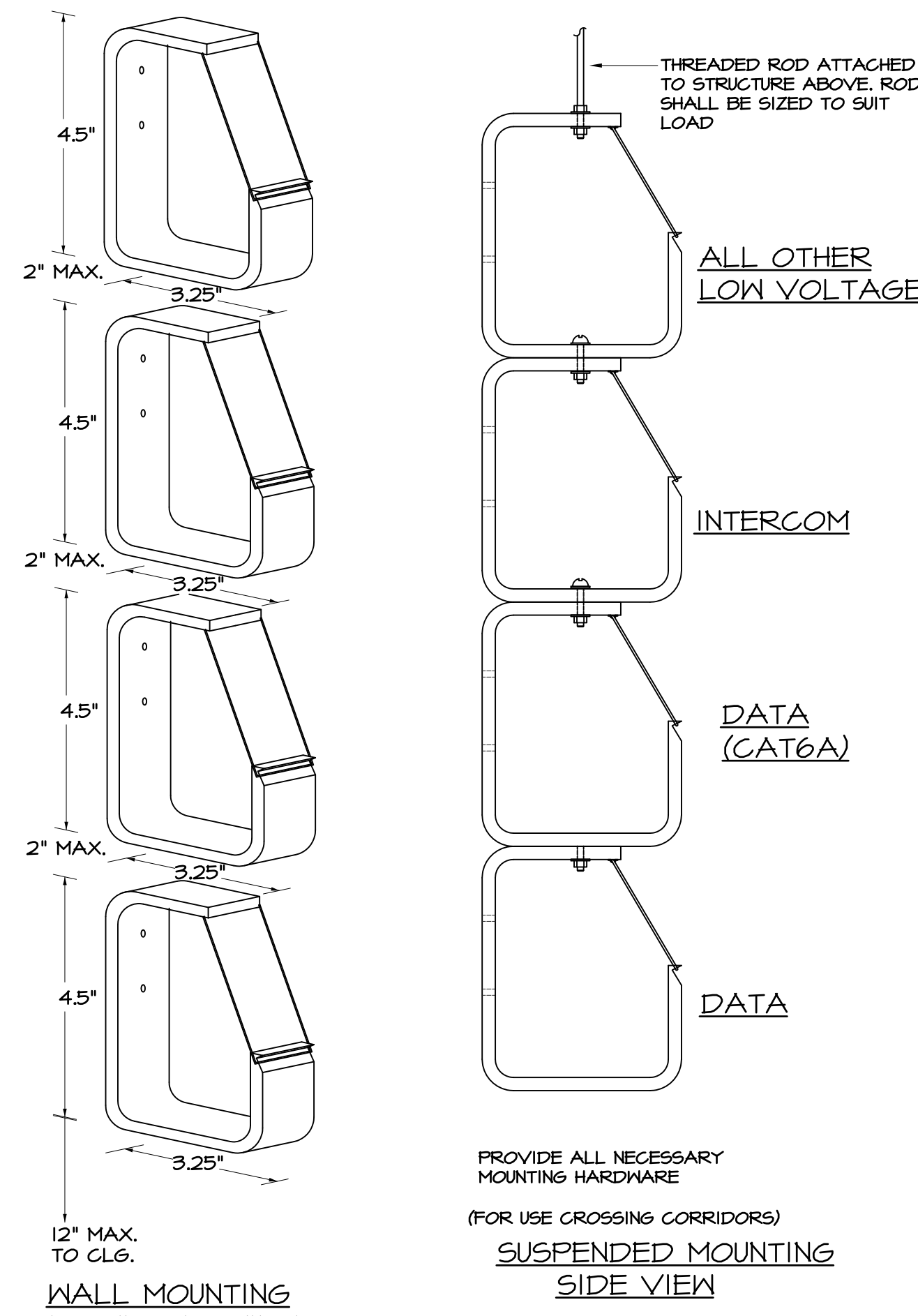
FACILITY CODE 66T-4556

**NORTH GWINNETT HIGH SCHOOL**  
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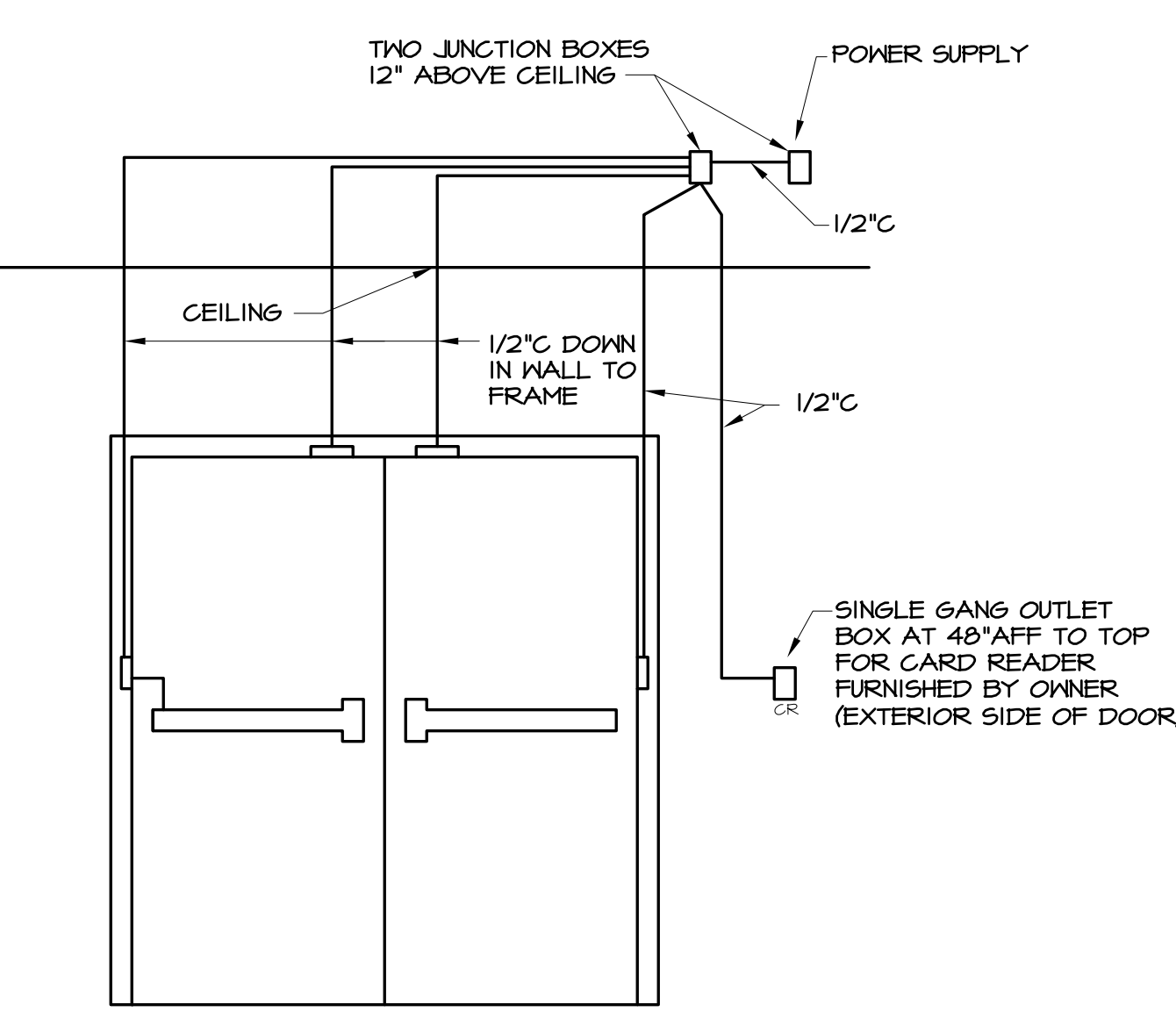
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**E3.7**



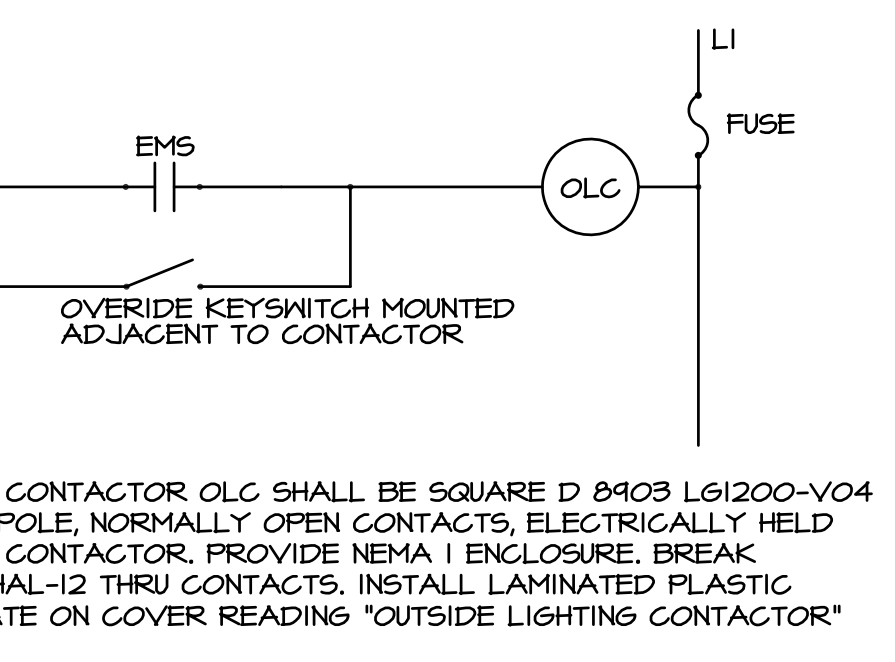
MONO-SYSTEMS, INC. MODELS H-433-5 STEEL CABLE HANGERS, MOUNT ON STUD/WALL AS SHOWN.  
 INTERCOM CABLING SHALL BE RUN IN MIDDLE CABLE HANGER  
 LOW VOLTAGE SYSTEM CABLING INCLUDING EMS SYSTEM, SECURITY/CCTV SYSTEMS AND FIRE ALARM CABLING, SHALL BE RUN IN UPPER CABLE HANGER.  
 DATA CABLING SHALL BE RUN IN LOWER TWO HANGERS (ONE DEDICATED FOR CAT6A CABLING TO SUPPORT WIRELESS NETWORK).  
 HANGERS SHALL BE MOUNTED 3' ON CENTER ALONG ENTIRE LENGTH OF HOMERUNS, WHERE SINGLE CABLES CROSS CORRIDOR, SUSPEND FROM STRUCTURE USING PLENUM RATED CABLE TIES.  
 APPROVED EQUAL PRODUCTS AS MANUFACTURED BY ATLAS, ERICO OR SOUTHERN SPECIALTIES ARE ACCEPTABLE.  
 APPROVED EQUAL PRODUCTS AS MANUFACTURED BY ATLAS, ERICO, PANOUT OR SOUTHERN SPECIALTIES ARE ACCEPTABLE.

**8** CABLE HANGER DETAIL  
 E4.1 NO SCALE

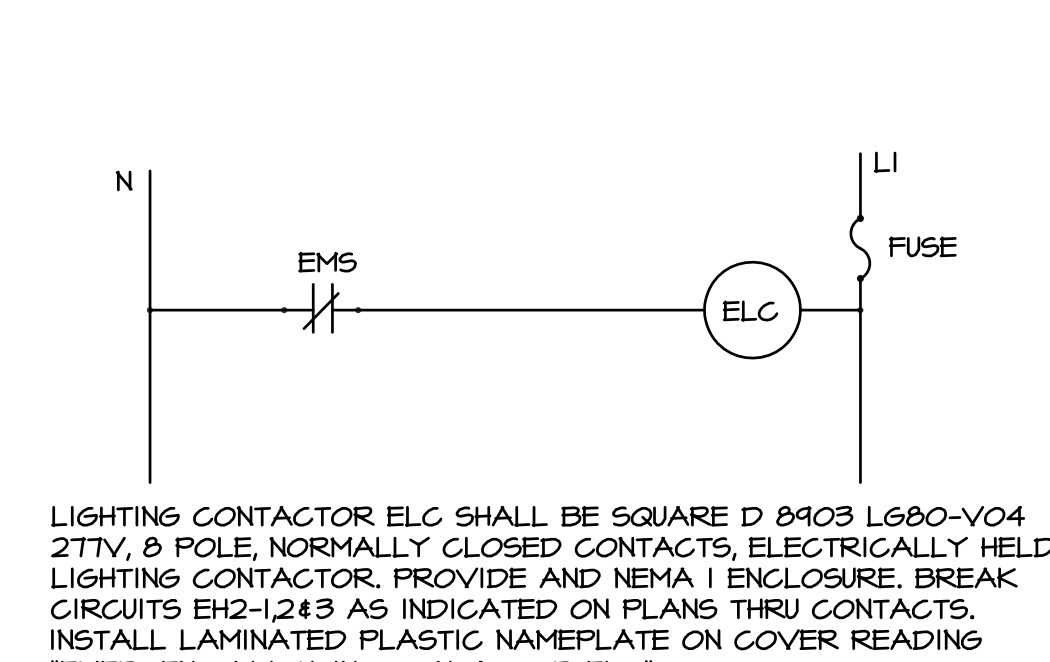


PROVIDE CONDUIT AS SHOWN FOR FUTURE USE BY OWNER. AT LOCATIONS WITH NO CEILINGS OR HIGH CEILINGS, INSTALL JUNCTION BOXES ABOVE CEILING OF ADJACENT ROOM.  
 SINGLE DOORS TYPICAL WITH CONDUIT OMITTED FOR SECOND LEAF. SEE ARCHITECTURAL DRAWINGS AND HARDWARE SPECS FOR DOORS REQUIRING FUTURE ACCESS CONTROL.  
 PROVIDE OUTLET BOX W/ BLANK SS COVER FOR FUTURE CARD READER ONLY WHERE INDICATED ON PLANS.

**7** ACCESS CONTROL DIAGRAM  
 E4.1 SCHEMATIC ONLY



**5** OUTSIDE LIGHTING CONTACTOR 'OLC' CONTROL WIRING DIAGRAM  
 E4.1 SCHEMATIC ONLY

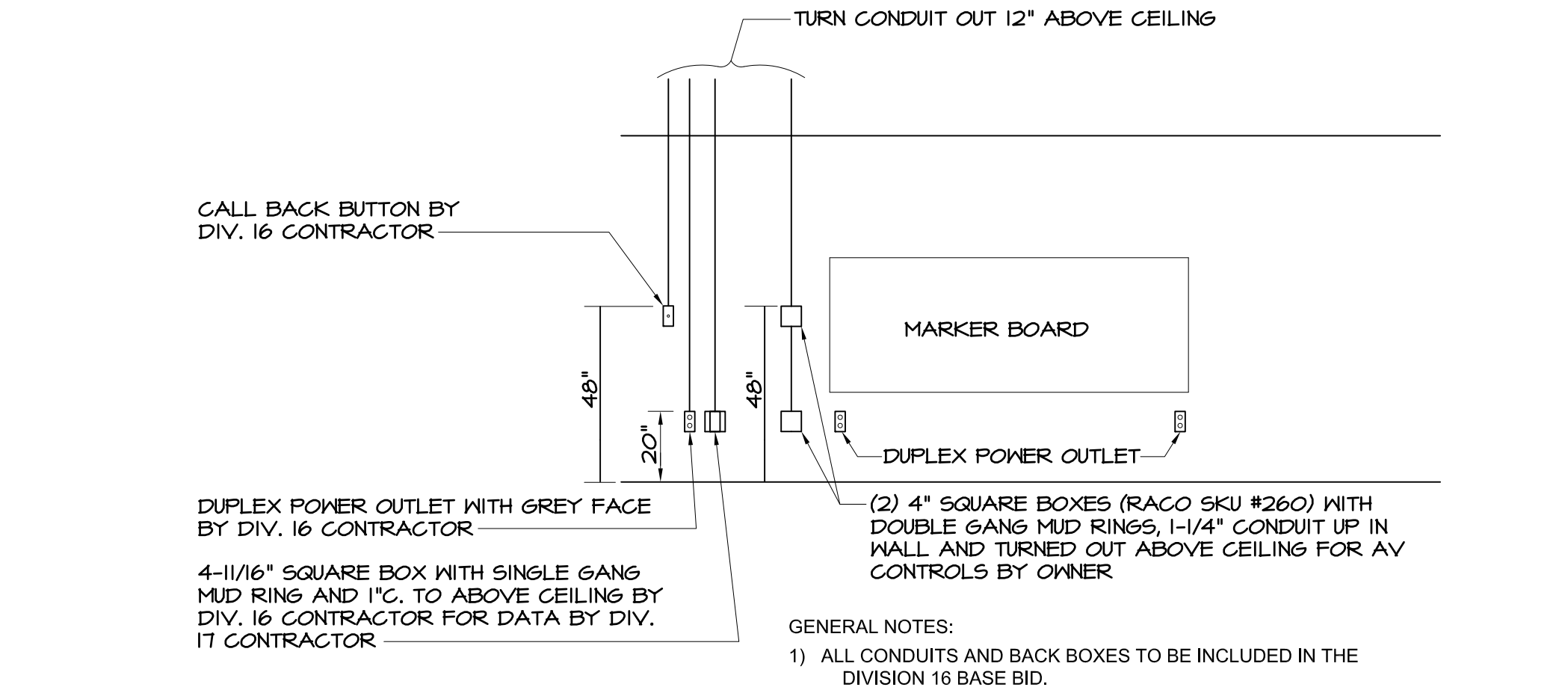


**4** EMERGENCY LIGHTING CONTACTOR 'ELC' CONTROL WIRING DIAGRAM  
 E4.1 SCHEMATIC ONLY

### LIGHTING FIXTURES

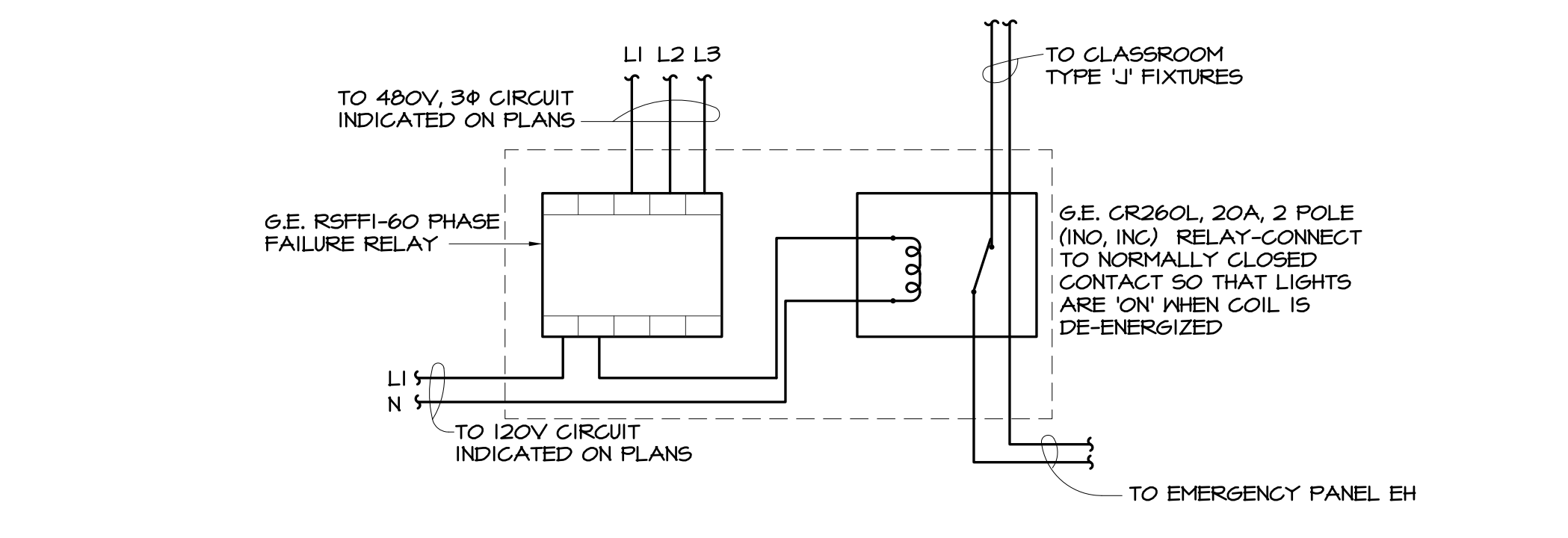
TYPE	LAMP SIZE	VOLT.	DESCRIPTION	EQUALS BY
A	48.8W LED, 4000K 6467 LUMENS, 82CRI	277	LITHONIA 26TL-4-60L-A19-LP840 2'x4' LAY-IN TROFFER WITH WHITE STEEL DOOR & .156\"	METALUX, MIDWEST, LIGHTOLIER, LSI, DAYBRITE, COLUMBIA
B	35.8W LED, 4000K 4169 LUMENS, 82CRI	277	LITHONIA 26TL-4-48L-A19-LP840 2'x4' LAY-IN TROFFER WITH WHITE STEEL DOOR & .156\"	METALUX, MIDWEST, LIGHTOLIER, LSI, DAYBRITE, COLUMBIA
C	29.9W LED, 4000K 4074 LUMENS, 82CRI	277	LITHONIA 26TL-4-40L-A19-LP840 2'x4' LAY-IN TROFFER WITH WHITE STEEL DOOR & .156\"	METALUX, MIDWEST, LIGHTOLIER, LSI, DAYBRITE, COLUMBIA
C2			SAME AS TYPE 'C' EXCEPT WITH SURFACE MOUNT TROFFER KIT.	
D	32.4W LED, 4000K 4253 LUMENS, 82CRI	277	LITHONIA LBL4-4000LM-80CRI-40K 10\"	METALUX, MIDWEST, LIGHTOLIER, LSI, DAYBRITE, COLUMBIA
EX			EXISTING LIGHTING FIXTURE TO REMAIN.	
F	34W LED, 4000K 4895 LUMENS, 80CRI	277	LITHONIA ZLIN-L48-5000LM-40K-80CRI-NH-HC-36-Y6Z48 4' STRIP WITH WHITE FINISH AND WIRE GUARD, SURFACE MOUNT ON CEILING OR CHAIN HANG AT 12\"	METALUX, MIDWEST, LIGHTOLIER, LSI, DAYBRITE, COLUMBIA
G	50W LED, 4000K 3042 LUMENS	277	ECLIPSE CMB3-L2B30H-B2 12\"	GARDCO, LUMARK, VISIONAIRE, QLLSI, WIDELIGHT, BEACON
H	34.5W LED, 4000K 4325 LUMENS, 82CRI	277	LITHONIA HL4-40L-LP840 4\"	METALUX, MIDWEST, LIGHTOLIER, LSI, DAYBRITE, COLUMBIA
J	32W LED, 4000K 3202 LUMENS, 80CRI	277	LITHONIA CPX-LED-2X2-3200LM-80CRI-40K-SVL-MINIO 2'x2 LED FLAT PANEL.	CAPRI, LIGHTOLIER, PORTFOLIO, HALO,
K	69W LED, 4000K 1481 LUMENS	277	LITHONIA CSXN-LED-30C-100-40K-T3M-DDBXD CAST ALUM. WALL MNT. FIXT. W/ TYPE III DIST. TEMP. GLASS LENS, BRONZE FINISH. MOUNT ON WALL, 12\"	GARDCO, LUMARK, VISIONAIRE, QLLSI, WIDELIGHT, BEACON
K2	69W LED, 4000K 1481 LUMENS	277	LITHONIA CSXN-LED-30C-100-40K-T3M-DDBXD CAST ALUM. WALL MNT. FIXT. W/ TYPE III DIST. TEMP. GLASS LENS, BRONZE FINISH. MOUNT ON WALL, 12\"	GARDCO, LUMARK, VISIONAIRE, QLLSI, WIDELIGHT, BEACON
R			EXISTING LIGHTING FIXTURE TO BE REMOVED AND REINSTALLED IN A NEW LOCATION.	
X1	HIGH INTENSITY LED's	277	LITHONIA LES-IR CAST ALUM. SINGLE FACE EXIT WITH STENCIL FACE, RED LETTERS. WALL MOUNT AT 7\"	DUAL-LITE, SURE-LITES, CHLORIDE
X2	HIGH INTENSITY LED's	277	LITHONIA LES-IR CAST ALUM. SINGLE FACE EXIT WITH STENCIL FACE, RED LETTERS. CEILING MOUNTED.	DUAL-LITE, SURE-LITES, CHLORIDE
X3	HIGH INTENSITY LED's	277	SAME AS TYPE 'X1' EXCEPT WITH DOUBLE FACE.	DUAL-LITE, SURE-LITES, CHLORIDE

**NOTES:**  
 1. 10 DAY PRIOR APPROVAL REQUIRED FOR ANY FIXTURE OR MANUFACTURER NOT LISTED ABOVE. SEE SPECIFICATIONS.

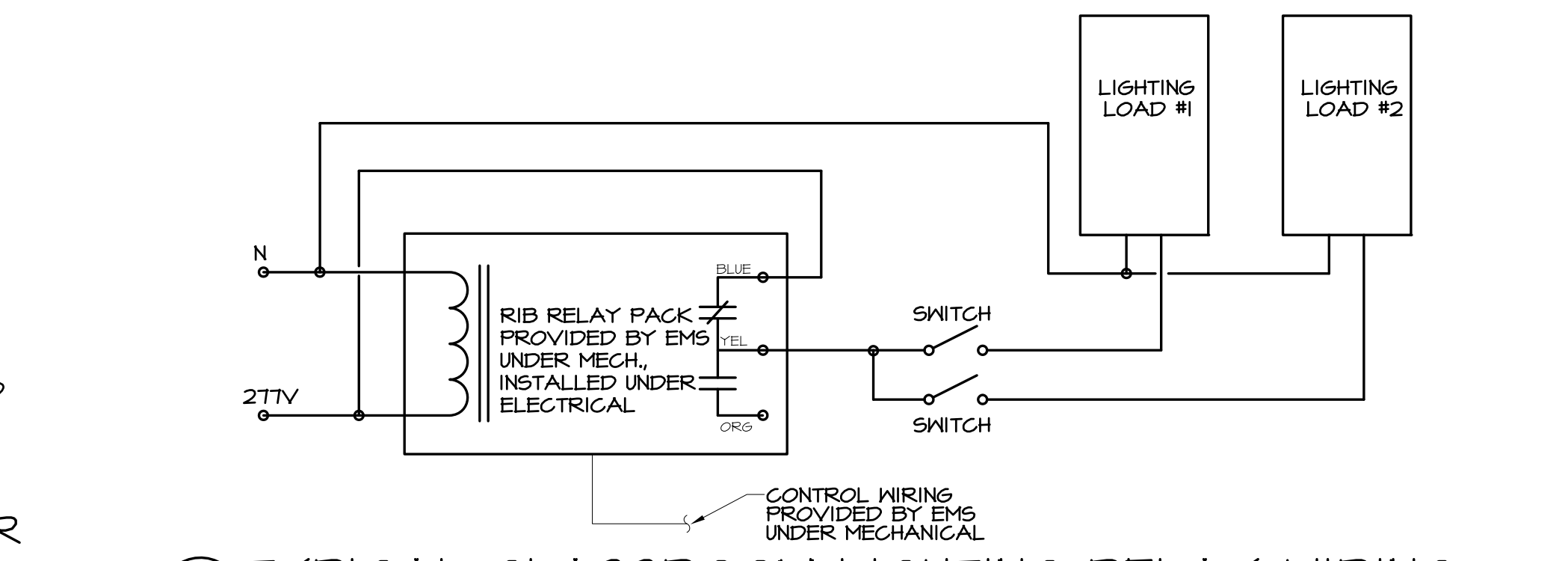


**GENERAL NOTES:**  
 1) ALL CONDUITS AND BACK BOXES TO BE INCLUDED IN THE DIVISION 16 BASE BID  
 2) SEAL ALL CONDUITS WITH DUCT TAPE OR EQUAL TO PREVENT DEBRIS FROM ENTERING RACEWAY SYSTEM.  
 3) ALL CONDUITS TO BE INSTALLED TO 12\"

**6** TYPICAL CLASSROOM FRONT ELEVATION  
 E4.1 NO SCALE - SCHEMATIC ONLY



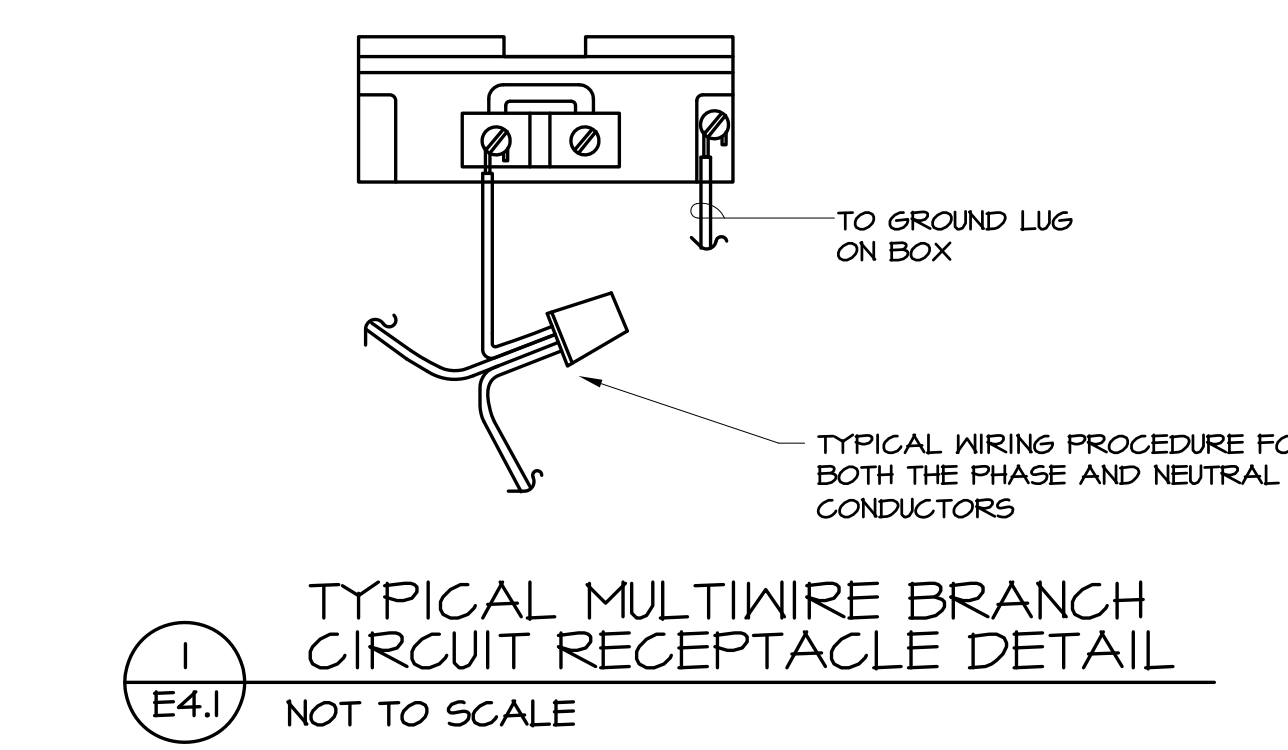
**3** CLASSROOM EMERGENCY LIGHTS RELAY CONTROL WIRING DIAGRAM  
 E4.1 NO SCALE - SCHEMATIC ONLY



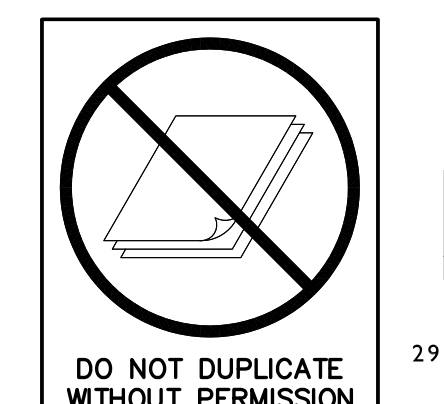
**2** TYPICAL CLASSROOM LIGHTING RELAY WIRING  
 E4.1 NOT TO SCALE

### LEGEND

SYMBOL	DESCRIPTION	MTG'S HGT TO TOP
○	CELLINGS MOUNTED FLUORESCENT FIXTURE	
●	SOLID DOT INDICATES FIXTURE ON EMERGENCY CIRCUIT	
○	CELLING MOUNTED INCANDESCENT OR H.I.D. FIXTURE	
○	WALL MOUNTED INCANDESCENT OR H.I.D. FIXTURE	
→	EXIT LIGHT - ARROWS AS INDICATED	
⊙	JUNCTION BOX IN WALL	20\"
⊙	JUNCTION BOX AT OR ABOVE CEILING OR IN FLOOR AS INDICATED	
\$	SINGLE POLE SWITCH 15A-120/277V HUBBELL 1221-I	48\"
\$3	3-WAY SWITCH 15A-120/277V HUBBELL 1223-I	48\"
\$4	4-WAY SWITCH 15A-120/277V HUBBELL 1224-I	48\"
\$K	KEY OPERATED SWITCH 15A-120/277V HUBBELL 1201-L	48\"
\$K3	KEY OPERATED 3-WAY SWITCH 15A-120/277V HUBBELL 1203-L	48\"
\$T1	INTERVAL TIMER MARKTIME 90.008 0-60 MIN. 20A-125V	48\"
\$T2	INTERVAL TIMER MARKTIME 90.007 0-6 HR. 20A-125V	48\"
\$M	MOTOR RATED SWITCH 20A-120/277V HUBBELL 1221 W/390 ENCLOSURE FOR LOCKOUT	48\"
\$RL	RAISE-LOWER SWITCH FURNISHED WITH EQUIPMENT CONTROLLED	48\"
\$TS	ELECTRONIC ADJUSTABLE TIMER WALL SWITCH 10A-277V-WATTSTOPPER TS-400-I	48\"
\$TS3	3-WAY WIRED ADJUSTABLE TIMER WALL SWITCH 10A-277V-WATTSTOPPER TS-400-I	48\"
\$CS	OCCUPANCY SENSOR WALL SWITCH 10A-277V-WATTSTOPPER PH-100	48\"
\$CS3	3-WAY OCCUPANCY SENSOR WALL SWITCH 10A-277V-WATTSTOPPER PH-103-N-I	48\"
\$DM	DIMMER WITH 0-10V DIMMING AND R88W CONTROLS ACCLAIM ART 4 FRO	48\"
⊙	CEILING MOUNTED OCCUPANCY SENSOR PROVIDED AND INSTALLED BY MECHANICAL	
⊙	LIGHTING RELAY PROVIDED BY MECH. AND INSTALLED BY ELEC. SEE 2/E4.1.	
⊙	FLOOR RECEPTACLE	
⊙	GROUNDING DUPLEX TAMPER-RESISTANT RECEPTACLE 15A-125V HUBBELL CR51TR	20\"
⊙	RECEPTACLE MOUNTED HORIZONTALLY ABOVE COUNTER TOP	48\"
⊙	COMPUTER RECEPTACLE W/ GREY FACE 20A-125V HUBBELL HBL53626YTR	20\"
⊙	TWO COMPUTER RECEPTACLES WITH DOUBLE GANG FACEPLATE	20\"
⊙	'R' INDICATES DUPLEX RECEPTACLE W/ RED FACE 15A-125V HUBBELL HBL5262RTR	20\"
⊙	'B' INDICATES DUPLEX RECEPTACLE W/ BLUE FACE 20A-125V HUBBELL HBL5362BLTR	20\"
⊙	GROUND FAULT INTERRUPTING TAMPER RES. RECEPT. 20A-125V HUBBELL GFR5T20-I	20\"
⊙	GROUNDING DUPLEX TAMPER-RESISTANT RECEPTACLE 20A-125V HUBBELL GR201TR	20\"
⊙	RECEPTACLE 20A-125V HUBBELL HBL5351-I	20\"
⊙	RECEPTACLE WITH HUBBELL HBL5221 WEATHER-PROOF COVER	20\"
⊙	GROUND FAULT CIRCUIT GUARD 20A-125V HUBBELL GFCF201A	12\"
⊙	GFI RECEPTACLE WITH HUBBELL NP26M WEATHER-PROOF COVER FOR EXTERIOR	24\"
⊙	GFI RECEPTACLE WITH HUBBELL NP26 WEATHER-PROOF COVER	20\"
⊙	RECEPTACLE OR OUTLET INSTALLED ON CONDUIT STUB - SEE DETAIL	20\"
⊙	TWO DUPLEX RECEPTACLES WITH DOUBLE GANG FACEPLATE	20\"
⊙	RECEPTACLE 20A-125/250V HUBBELL HBL8410	20\"
⊙	RECEPTACLE 20A-250V HUBBELL HBL5461-I	20\"
⊙	RECEPTACLE 30A-125V HUBBELL TWIST-LOCK HBL2610	20\"
⊙	RECEPTACLE 30A-125V HUBBELL HBL930B	20\"
⊙	RECEPTACLE 30A-250V HUBBELL HBL4330	20\"
⊙	DRYER OUTLET 30A-125/250V HUBBELL HBL9430A	20\"
⊙	RANGE OUTLET 50A-125/250V HUBBELL HBL9450A	20\"
⊙	TELEPHONE WALL OUT. W/ SINGLE GANG BOX & PLASTER RING-1\"	20\"
⊙	TELEVISION WALL OUT. W/ SINGLE GANG BOX & PLASTER RING-1\"	48\"
⊙	DATA WALL OUT. W/ SINGLE GANG BOX & PLASTER RING - 1\"	20\"
⊙	TELEVISION WALL OUT. W/ SINGLE GANG BOX & PLASTER RING-1\"	80\"
⊙	FLUSH FIRE ALARM PULL STATION	48\"
⊙	FLUSH FIRE ALARM HORN / STROBE LIGHT	88\"
⊙	FLUSH FIRE ALARM STROBE LIGHT ONLY. ELR INDICATES END OF LINE RESISTOR	88\"
⊙	WEATHER PROOF FLUSH EXTERIOR FIRE ALARM HORN	120\"
⊙	CEILING MOUNTED HORN / STROBE DEVICE	
⊙	SMOKE DETECTOR IN CEILING	
⊙	HEAT DETECTOR IN CEILING	
⊙	CARBON MONOXIDE DETECTOR	
⊙	DUCT MOUNTED SMOKE DETECTOR	
⊙	WALL MOUNTED MAGNETIC DOOR HOLDER	12\"
⊙	FIRE EXTENDER PANELS	60\"
⊙	CEILING MOUNTED SPEAKER	
⊙	WALL MOUNTED SPEAKER - INSTALL BACKBOX WITH 1/2\"	44\"
⊙	EXTERIOR WALL MOUNTED SPEAKER - INSTALL BACKBOX W/ 1/2\"	120\"
⊙	MICROPHONE WALL OUTLET W/ 1/2\"	20\"
⊙	INTERCOM CALL BUTTON WALL OUTLET W/ 1/2\"	48\"
⊙	NON-FUSED DISCONNECT SWITCH-30/2 INDICATES 30A, 2 POLE SWITCH	12\"
⊙	FUSED DISCONNECT SWITCH - 60/3/40 INDICATES 60A, 3 POLE SWITCH W/ 40A FUSES	12\"
⊙	ELECTRICAL PANELBOARD	12\"
⊙	MAGNETIC MOTOR STARTER - SEE MECHANICAL	12\"
⊙	PUSH BUTTON STOP/START - SEE MECHANICAL	48\"
⊙	MOTOR OPERATED DAMPER - SEE MECHANICAL	
⊙	RELAY PROVIDED BY MECH. AND INSTALLED BY ELEC.	
⊙	THERMOSTAT WALL OUTLET W/ 1/2\"	48\"
⊙	HUMIDISTAT WALL OUTLET W/ 1/2\"	48\"
⊙	TSTAT/HSTAT WALL OUTLETS 3\" APART W/ 1/2\" NIPPLE BETWEEN & ONE 1/2\"	48\"
⊙	FRACTIONAL HORSEPOWER MOTOR	
⊙	MOTOR - HORSEPOWER AS INDICATED	
⊙	ABOVE FINISHED FLOOR	
⊙	ABOVE FINISHED GRADE	
⊙	RIGID STEEL CONDUIT	
⊙	RAINTIGHT ENCLOSURE, NEMA 3R	
⊙	VARIABLE FREQUENCY DRIVE FURNISHED BY MECHANICAL	
⊙	INSTALL WIRE GUARD OVER DEVICE INDICATED	
⊙	CONDUIT CONCEALED IN WALL OR ABOVE CEILING	
⊙	CONDUIT CONCEALED UNDERGROUND OR BELOW ELEVATED FLOOR	
⊙	CONDUIT EXPOSED AT CEILING, CONCEALED IN WALLS	
⊙	ARROWS INDICATE HOMERUN TO PANEL	
⊙	CROSSMARKS INDICATE NO. OF CONDUCTORS, DOT INDICATES GROUND WIRE (2#12 MIN)	
⊙	# = 36\"	
⊙	** = OR AS NOTED ON PLANS	



**1** TYPICAL MULTIWIRED BRANCH CIRCUIT RECEPTACLE DETAIL  
 E4.1 NOT TO SCALE



DRAWING ISSUE RECORD

DATE	REVISION	NO
4/16/2021	DOE CHECK SET	
1/11/2021	BLDG. PERMIT SET	
1/11/2021	DOE FINAL	
1/30/2021	ISSUE FOR BID	
12/10/2020	ADDENDUM NO. 1	
12/16/2020	ADDENDUM NO. 2	
12/21/2020	ADDENDUM NO. 3	
12/31/2020	ADDENDUM NO. 4	
1/28/2021	CONFORMED SET	

FACILITY CODE 667-4556

NORTH GWINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 JOB NO. 51L-DO-21  
 DATE: MARCH 11, 2021  
 CK. BY: GLK  
 DWG. BY: GTR

**NEW PANEL EH**  
 SERVICE: 480Y/27TV, 3Φ, 4W MAIN: 100A-3P MAIN BREAKER  
 PANEL A.I.C.: 14,000A OPTIONS: EQUIP. GROUND BUS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
EX. LIGHTS	1600	20/1	1				22	20/1	1250	GR. EM. LTS
EM. LIGHTS	2205	20/1	2				23	20/1	1550	GR. EM. LTS
EM. LIGHTS	1565	20/1	3				24	20/1	1000	GR. EM. LTS
EM. LIGHTS	2800	20/1	4				25	40/3	24542	PANEL EL
EM. LIGHTS	2450	20/1	5				26			
EM. LIGHTS	2275	20/1	6				27			
EX. LIGHTS	1600	20/1	7				31	20/3	3500	EX. OSL
SPARE	--	20/1	8				30			
SPARE	--	20/1	9				30			
SPARE	--	20/1	10				32			
SPARE	--	20/1	11				33			
EX. LIGHTS	1600	20/1	12				32	20/3	3500	EX. OSL
EX. LIGHTS	500	20/1	13				34	20/3	3500	EX. OSL
SPARE	--	20/1	14				35			
GR. EM. LTS.	1000	20/1	15				36			
SPARE	--	20/1	16				37	20/3	4322	LIFT STATION
SPARE	--	20/1	17				38			(2 x 1-1/2 HP)
SPARE	--	20/1	18				39			
SPARE	--	20/1	19				40	60/3	4244	PANEL EH2
SPARE	--	20/1	20				41			
SPARE	--	20/1	21				42			

TOTAL CONNECTED LOAD: 75,153 VA

**EX. PANEL HCA**  
 SERVICE: 480Y/27TV, 3Φ MAIN: 400A M.L.O.  
 PANEL A.I.C.: 35,000A OPTIONS: EQUIP. GROUND BUS  
 SECTION #1 FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
EH-1	3000	20/1	1				22	30/1	4487	K36
EH-2	1145	20/1	2				23	30/1	3850	K30
EH-1	3000	20/1	3				24	30/1	4487	K36
EH-2	3500	20/1	4				25	20/3	1221	K48
EH-1	1944	20/1	5				26			
EH-2	3407	20/1	6				27			
EH-2	3407	20/1	7				28	30/3	12782	H424/H48
EH-2	3407	20/1	8				29			
EH-2	1145	20/1	9				30			
EH-2	3407	20/1	10				31	20/3	7000	BASIN HTR
EH-2	1944	20/1	11				32			
EH-2	3407	20/1	12				33			
EH-2	1145	20/1	13				34	60/3*	22,437	CT FAN
EH-2	3407	20/1	14				35			(20HP)
EH-2	1944	20/1	15				36			
EH-2	1145	20/1	16				37	60/3*	22,437	P-3
EH-2	3407	20/1	17				38			(20HP)
EH-2	1145	20/1	18				39			
EH-2	1145	20/1	19				40	60/3*	--	P-4
EH-2	--	20/1	20				41			(20HP)
EH-1	4500	30/1	21				42			

**EX. MAIN SWITCHBOARD SB**

VOLTAGE	MAINS	BRANCH CIRCUIT NO.	BRANCH BREAKER	A.I.C.	SERVICE
480Y/27TV, 3Φ, 4 WIRE	2500A-3P SOLID STATE TRIP BREAKER WITH GROUND	1	60A-3P	35,000	TVSS-1
		2	100A-3P	35,000	DISC. FOR TRANSFORMER CT-A
		3	40A-3P*	35,000	NEW P-1 (40HP)
		4	40A-3P*	35,000	NEW P-2 (40HP)
	FAULT PROT.	5	150A-3P	35,000	ELEVATOR (40HP)
		6	--	--	225 SPACE
		1, 6	250A-3P	35,000	BOILERS B-1 & B-2 (165KW)
		9	250A-3P*	35,000	NEW B-3 (150KW)
		10	250A-3P*	35,000	NEW B-4 (150KW)
		11	300A-3P	35,000	PANEL HCB
		12, 13	400A-3P	35,000	PANELS HCA & HCC
		14	300A-3P*	35,000	NEW PANEL HA
		15	300A-3P*	35,000	NEW PANEL HB
		16	--	--	--

NOTES:  
 1. SWITCHBOARD SHALL BE GENERAL ELECTRIC SPECTRA SERIES  
 2. BUS BAR STRUCTURE SHALL BE BRACED FOR 65,000 AMPS.  
 3. PROVIDE UL SERVICE ENTRANCE LABEL.  
 4. PROVIDE ADJUSTABLE ELECTRONIC TRIP MAIN BREAKER WITH BUILT-IN AMPMETER AND TRIP METER. SETTINGS FOR THE SOLID STATE TRIP MAIN BREAKER SHALL BE AS FOLLOWS:

TRIP FUNCTION	TIMES RATED AMPERES	TIME DELAY SECONDS
CURRENT SETTING	1.0	--
INSTANTANEOUS	5	--
LONG TIME	1.1	10.0
SHORT TIME	4	0.35
GROUND FAULT	1200A MAX.	0.35

5. BRANCH CIRCUIT BREAKERS SHALL BE HORIZONTALLY NUMBERED AND ARRANGED IN THE ORDER SCHEDULED ABOVE. PROVIDE A PLASTIC NAMEPLATE FOR EACH.  
 6. CIRCUIT BREAKERS SHALL BE SERIES RATED WITH PANELS SERVED AND UL TESTED AND LISTED AS CONFIGURED. A CLEARLY VISIBLE MARKING ON 'SB' SHOWING METHOD OF SERIES RATED EQUIPMENT MUST BE PRESENT ON SWITCHBOARD PER NEC 110.22.  
 7. PROVIDE A GROUND BUS IN EACH DISTRIBUTION SECTION  
 8. PROVIDE FULL HEIGHT VERTICAL BUS IN EACH SECTION  
 9. THE FINAL CORRECTED AVAILABLE FAULT CURRENT INFORMATION OBTAINED FROM THE UTILITY POWER COMPANY MUST BE IDENTIFIED AND CLEARLY LABELED AT FRONT OF THE SWITCHBOARD.  
 NOTE:  
 \* INSTALL NEW BREAKER IN EXISTING SPACE.

**PANEL EH2**  
 SERVICE: 480Y/27TV, 3Φ, 4W MAIN: 60A-3P MAIN BREAKER  
 PANEL A.I.C.: 25,000A OPTIONS: EQUIP. GROUND BUS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
EM. LIGHTS	828	20/1	1				16	20/1	448	CR. EM. LTS.
EM. LIGHTS	780	20/1	2				17	20/1	350	CR. EM. LTS.
EM. LIGHTS	828	20/1	3				18	20/1	--	SPARE
SPARE	--	20/1	4				19	20/1	--	SPARE
SPARE	--	20/1	5				20	20/1	--	SPARE
SPARE	--	20/1	6				21	20/1	--	SPARE
SPARE	--	20/1	7				22	--	--	SPACE
SPARE	--	20/1	8				23	--	--	SPACE
SPARE	--	20/1	9				24	--	--	SPACE
SPARE	--	20/1	10				25	--	--	SPACE
SPARE	--	20/1	11				26	--	--	SPACE
SPARE	--	20/1	12				27	--	--	SPACE
SPARE	--	20/1	13				28	--	--	SPACE
SPARE	--	20/1	14				29	--	--	SPACE
SPARE	--	20/1	15				30	60/10	6010	PANEL EL2
SPARE	--	20/1	16				31			

TOTAL CONNECTED LOAD: 4244 VA

**PANEL EL2**  
 SERVICE: 208Y/120V, 3Φ, 4W MAIN: 100A-3P MAIN BREAKER  
 PANEL A.I.C.: 10,000A OPTIONS: EQUIP. GROUND BUS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
FXP	120	20/1	1				16	40/3	10	SPD-4
EMS	360	20/1	2				17			
IDF	1200	20/1	3				18			
FXP	120	20/1	4				19	20/1	--	SPARE
EMS	360	20/1	5				20	20/1	--	SPARE
IDF	1200	20/1	6				21	20/1	--	SPARE
FXP	360	20/1	7				22	20/1	--	SPARE
SPARE	--	20/1	8				23	20/1	--	SPARE
SPARE	--	20/1	9				24	20/1	--	SPARE
SPARE	--	20/1	10				25	20/1	--	SPARE
RECEPT.	180	20/1	11				26	20/1	--	SPARE
RECEPT.	180	20/1	12				27	20/1	--	SPARE
DOOR ACC.	360	20/1	13				28	20/1	--	SPARE
DOOR ACC.	360	20/1	14				29	20/1	--	SPARE
SPARE	--	20/1	15				30	20/1	--	SPARE

TOTAL CONNECTED LOAD: 6010 VA

**PANEL ELT**  
 SERVICE: 208Y/120V, 3Φ, 4W MAIN: 50A-3P MAIN BREAKER  
 PANEL A.I.C.: 10,000A OPTIONS: EQUIP. GROUND BUS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
FXP-12	360	20/1	1				7	20/1	--	SPARE
FXP-13	360	20/1	2				8	20/1	--	SPARE
DOOR HOLD.	360	20/1	3				9	20/1	--	SPARE
SPARE	--	20/1	4				10	20/1	--	SPARE
SPARE	--	20/1	5				11	20/1	--	SPARE
SPARE	--	20/1	6				12	20/1	--	SPARE

TOTAL CONNECTED LOAD: 1080 VA

**PANEL LEM**  
 SERVICE: 208Y/120V, 3Φ, 4W MAIN: 50A-3P MAIN BREAKER  
 PANEL A.I.C.: 10,000A OPTIONS: EQUIP. GROUND BUS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
FXP-14	360	20/1	1				7	20/1	--	SPARE
FXP-15	360	20/1	2				8	20/1	--	SPARE
DOOR HOLD.	360	20/1	3				9	20/1	--	SPARE
SPARE	--	20/1	4				10	20/1	--	SPARE
SPARE	--	20/1	5				11	20/1	--	SPARE
SPARE	--	20/1	6				12	20/1	--	SPARE

TOTAL CONNECTED LOAD: 1080 VA

**SECTION #2**

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
H42	6391	20/3	43				64	20/3	--	ELR-B
			44				65			
			45				66			
H42 X 2	12782	30/3	46				67	--	--	SPACE
			47				68	--	--	SPACE
			48				69	--	--	SPACE
SPARE	--	30/3	49				70	--	--	SPACE
			50				71	--	--	SPACE
			51				72	--	--	SPACE
SPARE	--	30/3	52				73	--	--	SPACE
			53				74	--	--	SPACE
			54				75	--	--	SPACE
SPACE	--	--	55				76	--	--	SPACE
SPACE	--	--	56				77	--	--	SPACE
SPACE	--	--	57				78	--	--	SPACE
SPACE	--	--	58				79	60/3	33,310	PNL HCAL
SPACE	--	--	59				80			
SPACE	--	--	60				81			
SPACE	--	--	61				82	100/3	67,196	PNL LCA
OUT. LUG.	1400	20/1	82				83			
OUT. LUG.	2100	20/1	83				84			

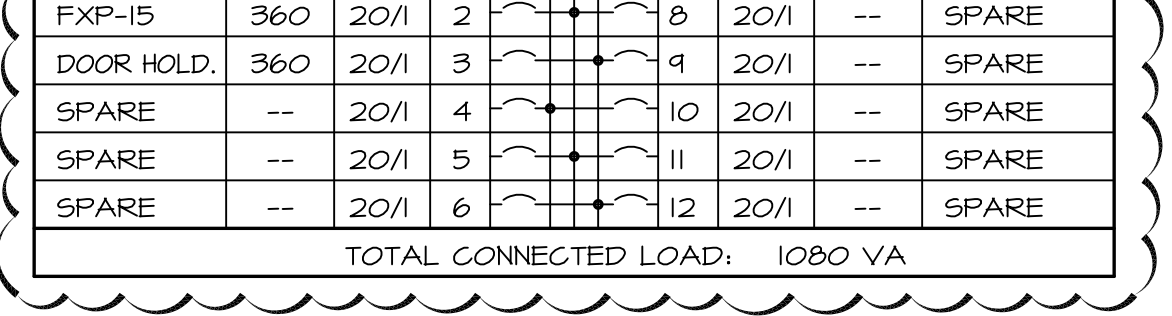
TOTAL CONNECTED LOAD: 243,025 VA (PREVIOUS)  
 261,841 VA (NEW)  
 \* REPLACE EXISTING BREAKER WITH NEW BREAKER AS SHOWN.

**EXISTING 2013 3-STORY LOAD SUMMARY FOR SB**

	CONNECTED	NEC DEMAND
LIGHTING - INTERIOR	86.9 KVA	86.9 KVA
LIGHTING - EXTERIOR	3.5 KVA	0 KVA
RECEPTACLES	275.9 KVA	143.0 KVA
WATER HEATING	15.0 KVA	15.0 KVA
ELEVATOR	49.3 KVA	49.3 KVA
HVAC SYSTEMS	346.1 KVA	346.1 KVA
ELEC. BOILERS	330 KVA	330 KVA
STRIP HEAT	21.3 KVA	21.3 KVA
EXISTING LOAD	1122.0 KVA	985.6 KVA

**NEW LOADS ADDED TO SB IN 2022**

	CONNECTED	NEC DEMAND
LIGHTING - INTERIOR	14.8 KVA	14.8 KVA
LIGHTING - EXTERIOR	11 KVA	0 KVA
RECEPTACLES	116.9 KVA	63.4 KVA
WATER HEATING	15 KVA	15 KVA
HVAC SYSTEM	247.5 KVA	247.5 KVA
ELECTRIC BOILER	300 KVA	300 KVA
STRIP HEAT	0.3 KVA	0.3 KVA
UTURE (BRD FLR. BUILD-OUT)	200.0 KVA	160.1 KVA
LOAD ADDED	901.4 KVA	806.7 KVA
NEW TOTAL LOAD	2023.4 KVA	1792.3 KVA



DATE	REVISIONS	NO.
4/16/2021	DOE CHECK SET	
1/11/2021	BLDG. PERMIT SET	
1/11/2021	DOE FINAL	
1/30/2021	ISSUE FOR BID	
12/16/2020	ADDENDUM NO. 2	
12/11/2020	ADDENDUM NO. 3	
1/26/2022	CONFIRMED SET	

**PANEL LB**  
 SERVICE: 208Y/120V, 3φ, 4W MAIN: 225A-3P MAIN BREAKER  
 PANEL A.I.C.: 10,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
HAND DRY.	720	20/1	1	22	20/1	52B				EF-51x2
HAND DRY.	720	20/1	2	23	20/1	840				REFRIG.
HAND DRY.	720	20/1	3	24	20/1	360				RECEPTS.
HAND DRY.	720	20/1	4	25	20/1	540				RECEPTS.
HAND DRY.	720	20/1	5	26	20/1	360				RECEPTS.
RECEPTS.	360	20/1	6	27	20/1	360				RECEPTS.
RECEPTS.	1080	20/1	7	28	20/1	360				RECEPTS.
RECEPTS.	540	20/1	8	29	20/1	360				RECEPTS.
RECEPTS.	720	20/1	9	30	20/1	52B				FUME HOOD
RECEPTS.	720	20/1	10	31	20/1	540				RECEPTS.
RECEPTS.	1500	30/1	11	32	20/1	540				RECEPTS.
RECEPTS.	1500	30/1	12	33	20/1	360				RECEPTS.
RECI.RC.	52B	20/1	13	34	20/1	360				RECEPTS.
RECEPTS.	720	20/1	14	35	20/1	540				RECEPTS.
RECEPTS.	360	20/1	15	36	20/1	52B				EF-51x2
RECEPTS.	360	20/1	16	37	20/1	840				REFRIG.
RECEPTS.	720	20/1	17	38	20/1	360				RECEPTS.
RECEPTS.	360	20/1	18	39	20/1	540				RECEPTS.
RECEPTS.	360	20/1	19	40	20/1	--				SPARE
FUME HOOD	52B	20/1	20	41	20/1	--				SPARE
SPARE	--	20/1	21	42	20/1	50				ELR-B

**PANEL HB**  
 SERVICE: 480Y/277V, 3φ, 4W MAIN: 400A M.L.O.  
 PANEL A.I.C.: 42,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
WI2	1856	20/1	1	22	20/3	6316				WI2
WI8	1856	20/1	2	23						
WI24	2442	20/1	3	24						
WI24	2442	20/1	4	25	20/3	12,000				WI+2
WI24	2442	20/1	5	26						
WI24	2442	20/1	6	27						
WI24	2442	20/1	7	28	--	--				SPACE
WI8	1856	20/1	8	29	--	--				SPACE
WI8	1856	20/1	9	30	--	--				SPACE
WI24	2442	20/1	10	31	--	--				SPACE
SPARE	--	20/1	11	32	--	--				SPACE
SPARE	--	20/1	12	33	--	--				SPACE
WI30	3406	30/1	13	34	40/3	9694				PANEL HBL
WI30	3406	30/1	14	35	30/3					
WI30	3406	30/1	15	36						
WI36	4244	30/1	16	37	80/3	51,522				ERU-I
WI36	4244	30/1	17	38						
WI36	4244	30/1	18	39						
WI30	3406	30/1	19	40	100/3	51,722				PANEL LB
WI36	4244	30/1	20	41						
SPARE	--	30/1	21	42						

**PANEL LA**  
 SERVICE: 208Y/120V, 3φ, 4W MAIN: 225A-3P MAIN BREAKER  
 PANEL A.I.C.: 10,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
HAND DRY.	720	15/1	1	22	20/1	1080				RECEPTS.
HAND DRY.	720	15/1	2	23	20/1	1080				RECEPTS.
HAND DRY.	720	15/1	3	24	20/1	1080				RECEPTS.
HAND DRY.	720	15/1	4	25	20/1	1080				RECEPTS.
HAND DRY.	720	15/1	5	26	20/1	1080				RECEPTS.
RECEPTS.	360	20/1	6	27	20/1	1080				RECEPTS.
RECEPTS.	540	20/1	7	28	20/1	1080				RECEPTS.
REFRIG.	840	20/1	8	29	20/1	720				RECEPTS.
RECEPTS.	180	20/1	9	30	20/1	720				RECEPTS.
RECEPTS.	900	20/1	10	31	20/3	400				RECEPTS.
RECEPTS.	1080	20/1	11	32	20/1	720				RECEPTS.
RECEPTS.	1080	20/1	12	33	20/1	400				RECEPTS.
RECI.RC.	900	20/1	13	34	20/1	720				RECEPTS.
RECI.RC.	52B	20/1	14	35	20/1	720				RECEPTS.
RECEPTS.	1500	30/1	15	36	20/1	360				RECEPTS.
RECEPTS.	1500	30/1	16	37	20/1	720				RECEPTS.
RECEPTS.	540	20/1	17	38	20/1	400				RECEPTS.
RECEPTS.	720	20/1	18	39	20/1	900				RECEPTS.
RECEPTS.	540	20/1	19	40	20/1	1080				RECEPTS.
RECEPTS.	540	20/1	20	41	20/1	1080				RECEPTS.
SPARE	--	20/1	21	42	20/1	50				ELR-A

**PANEL HA**  
 SERVICE: 480Y/277V, 3φ, 4W MAIN: 400A M.L.O.  
 PANEL A.I.C.: 42,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
WI-I	3000	20/1	1	22	30/1	3406				WI30
EH-1	3000	20/1	2	23	30/1	3406				WI30
WI6	831	20/1	3	24	30/1	--				SPARE
WI6	831	20/1	4	25	--	--				SPARE
WI2	1856	20/1	5	26	--	--				SPARE
WI2	1856	20/1	6	27	--	--				SPARE
WI8	1856	20/1	7	28	20/3	8560				RTU-B1 (60)
WI8	1856	20/1	8	29						
WI8	1856	20/1	9	30						
WI24	2442	20/1	10	31	20/3	6344				RTU-B2 (36)
WI24	2442	20/1	11	32						
WI24	2442	20/1	12	33						
WI24	2442	20/1	13	34	20/3	10,221				RTU-B3 (12)
WI24	2442	20/1	14	35						
WI24	2442	20/1	15	36						
WI24	2442	20/1	16	37	40/3	11,115				PANEL HAL
WI24	2442	20/1	17	38						
WI24	2442	20/1	18	39						
WI24	2442	20/1	19	40	100/3	36,408				PANEL LA
SPARE	--	20/1	20	41						
SPARE	--	20/1	21	42						

**PANEL HBL**  
 SERVICE: 480Y/277V, 3φ, 4W MAIN: 100A M.L.O.  
 PANEL A.I.C.: 25,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
LIGHTING	540	20/1	1	16	15/3	50				ELR-B
EHG	552	20/1	2	17						
LIGHTING	1260	20/1	3	18						
LIGHTING	1260	20/1	4	19	--	--				SPACE
LIGHTING	1044	20/1	5	20	--	--				SPACE
LIGHTING	864	20/1	6	21	--	--				SPACE
LIGHTING	1332	20/1	7	22	--	--				SPACE
LIGHTING	990	20/1	8	23	--	--				SPACE
LIGHTING	1802	20/1	9	24	--	--				SPACE
SPARE	--	20/1	10	25	--	--				SPACE
SPARE	--	20/1	11	26	--	--				SPACE
SPARE	--	20/1	12	27	--	--				SPACE
SPARE	--	20/1	13	28	--	--				SPACE
SPARE	--	20/1	14	29	--	--				SPACE
SPARE	--	20/1	15	30	--	--				SPACE

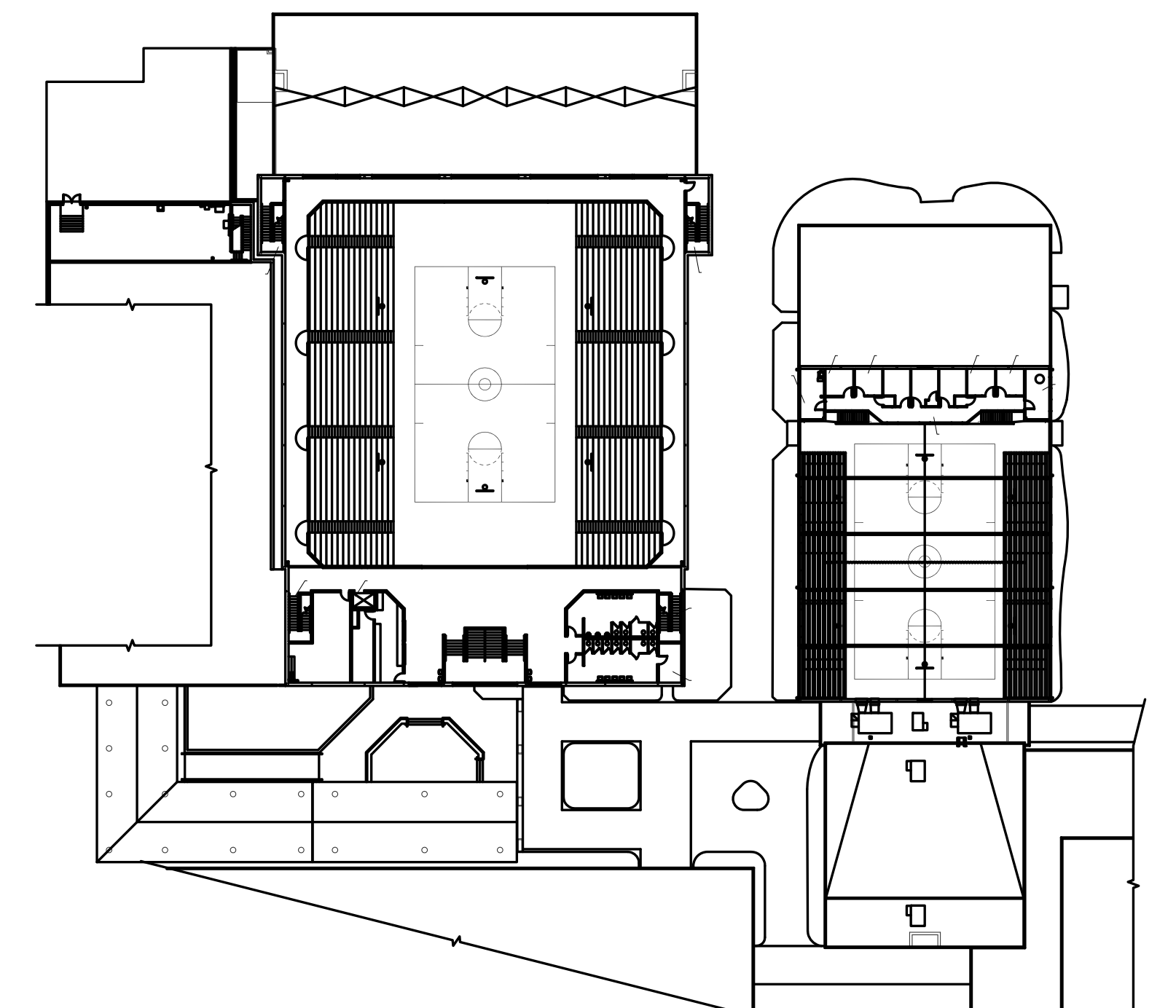
**PANEL LAC**  
 SERVICE: 208Y/120V, 3φ, 4W MAIN: 225A-3P MAIN BREAKER  
 PANEL A.I.C.: 10,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
RECEPTS.	720	20/1	1	22	20/1	360				RECEPTS.
RECEPTS.	360	20/1	2	23	20/1	360				RECEPTS.
RECEPTS.	360	20/1	3	24	20/1	360				RECEPTS.
RECEPTS.	360	20/1	4	25	20/1	--				SPACE
RECEPTS.	720	20/1	5	26	20/1	--				SPACE
RECEPTS.	720	20/1	6	27	20/1	--				SPACE
RECEPTS.	720	20/1	7	28	20/1	--				SPACE
RECEPTS.	720	20/1	8	29	20/1	--				SPACE
RECEPTS.	720	20/1	9	30	20/1	--				SPACE
RECEPTS.	720	20/1	10	31	20/1	--				SPACE
RECEPTS.	720	20/1	11	32	20/1	--				SPACE
RECEPTS.	720	20/1	12	33	20/1	--				SPACE
RECEPTS.	720	20/1	13	34	20/1	--				SPACE
RECEPTS.	720	20/1	14	35	20/1	--				SPACE
RECEPTS.	360	20/1	15	36	20/1	--				SPACE
RECEPTS.	540	20/1	16	37	20/1	--				SPACE
RECEPTS.	720	20/1	17	38	20/1	--				SPACE
RECEPTS.	360	20/1	18	39	20/1	--				SPACE
RECEPTS.	720	20/1	19	40	20/1	--				SPACE
RECEPTS.	360	20/1	20	41	20/1	--				SPACE
RECEPTS.	360	20/1	21	42	20/1	--				SPACE

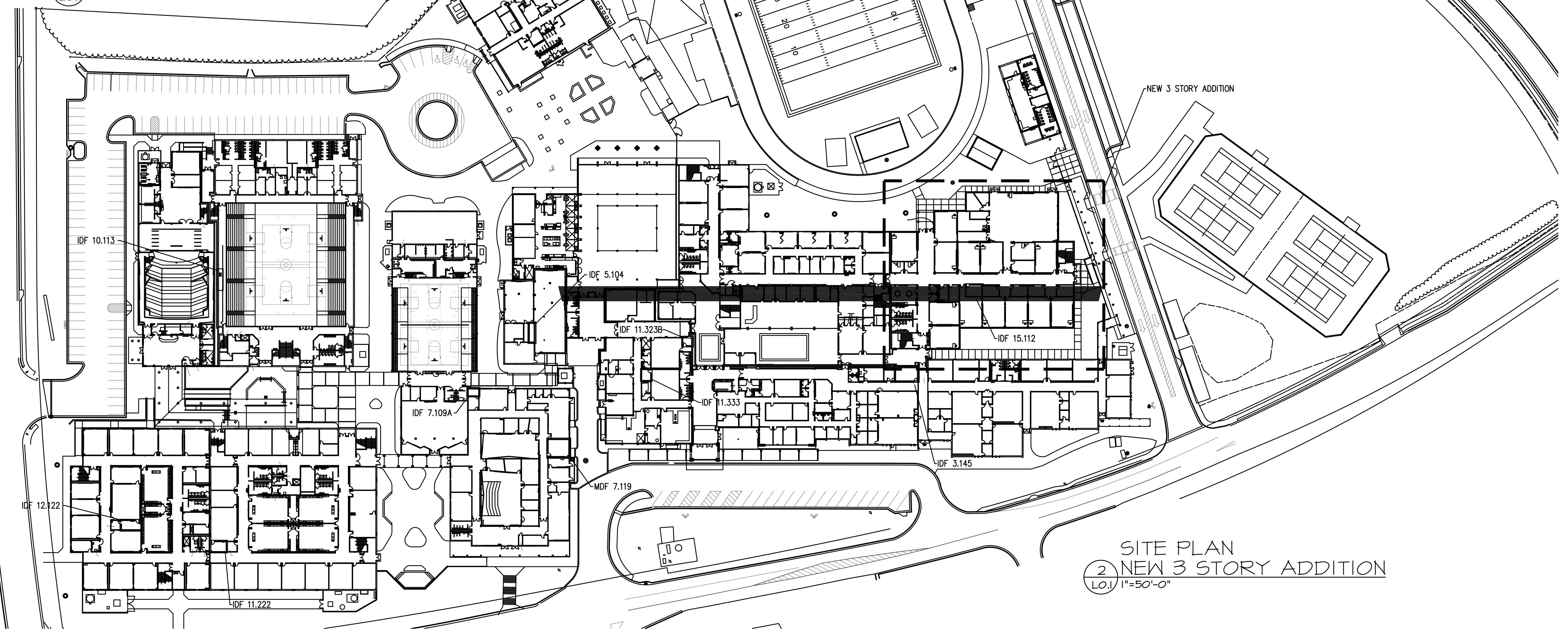
**PANEL HAL**  
 SERVICE: 480Y/277V, 3φ, 4W MAIN: 100A M.L.O.  
 PANEL A.I.C.: 25,000A OPTIONS: EQUIP. GROUND BUS FEED-THRU LUGS

SERVES	VA	CIR. BKR.	CIR. #	A	B	C	CIR. #	CIR. BKR.	VA	SERVES
LIGHTING	828	20/1	1	16	15/3	50				ELR-A
LIGHTING	670	20/1	2	17						
LIGHTING	648	20/1	3	18						
LIGHTING	732	20/1	4	19	--	--				SPACE
LIGHTING	854	20/1	5	20	--	--				SPACE
LIGHTING	1044	20/1	6	21	--	--				SPACE
LIGHTING	1062	20/1	7	22	--	--				SPACE
LIGHTING	1332	20/1	8	23	--	--				SPACE
LIGHTING	1296	20/1	9	24	--	--				SPACE
LIGHTING	864	20/1	10	25	--	--				SPACE
LIGHTING	576	20/1	11	26	--	--				SPACE
EXT. LTG.	1054	20/1	12	27	--	--				SPACE
SPARE	--	20/1	13	28	--	--				SPACE
SPARE	--	20/1	14	29	--	--				SPACE
SPARE	--	20/1	15	30	--	--				SPACE

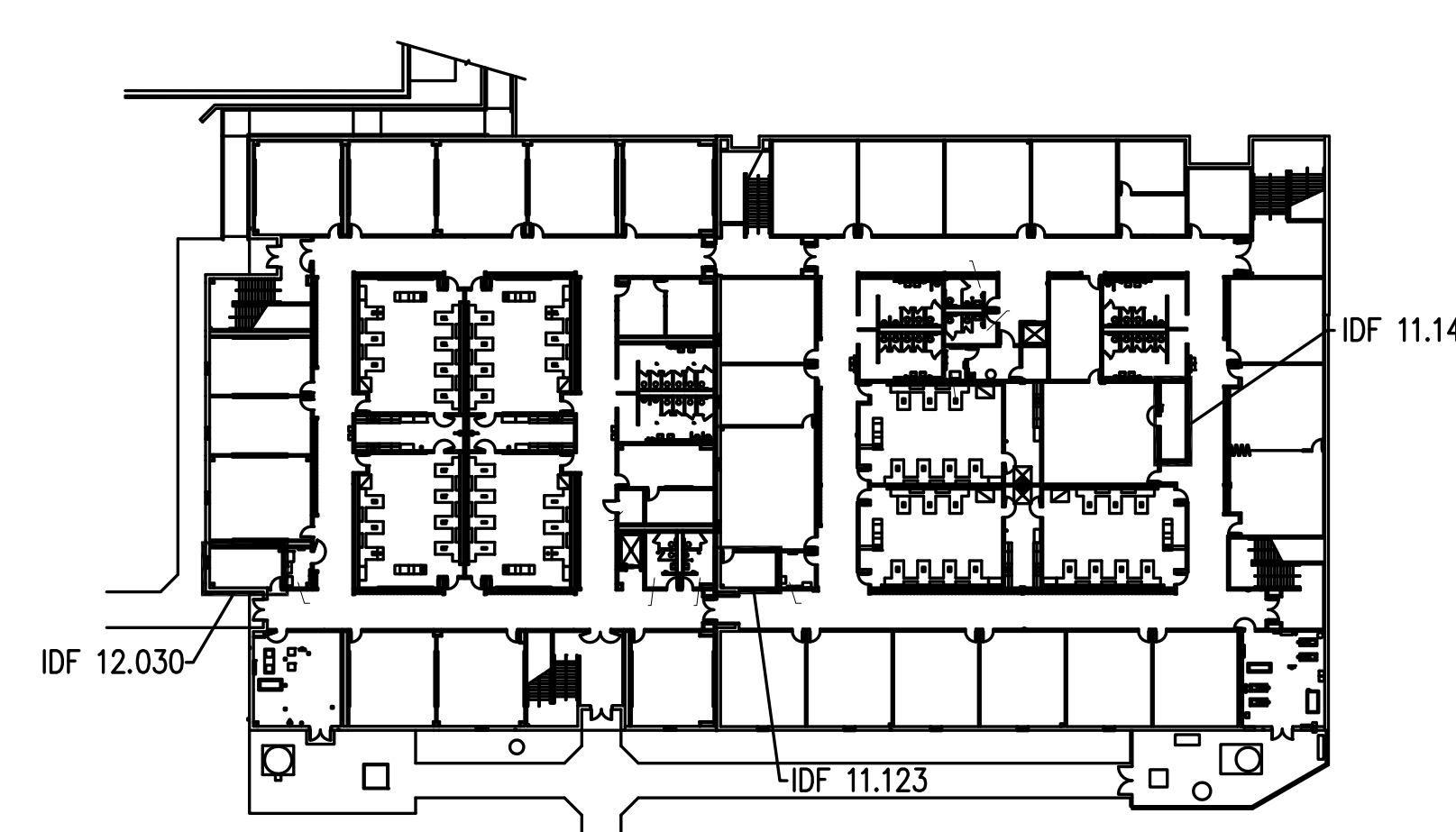
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DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
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11/30/2021	ISSUE FOR BID	
12/8/2022	CONFORMED SET	



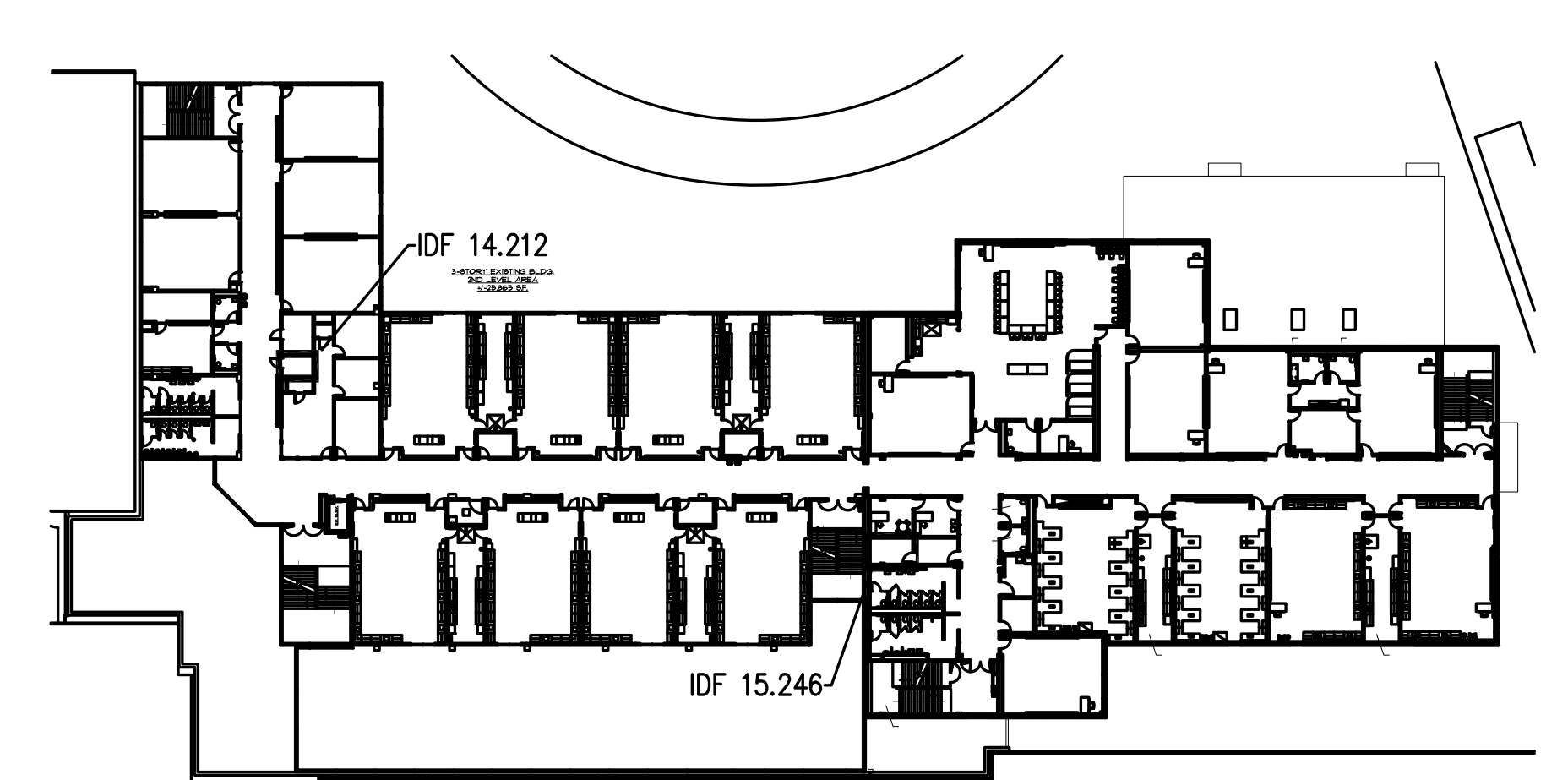
1 EXISTING UPPER GYM LEVEL  
LO.I 1"=50'-0"



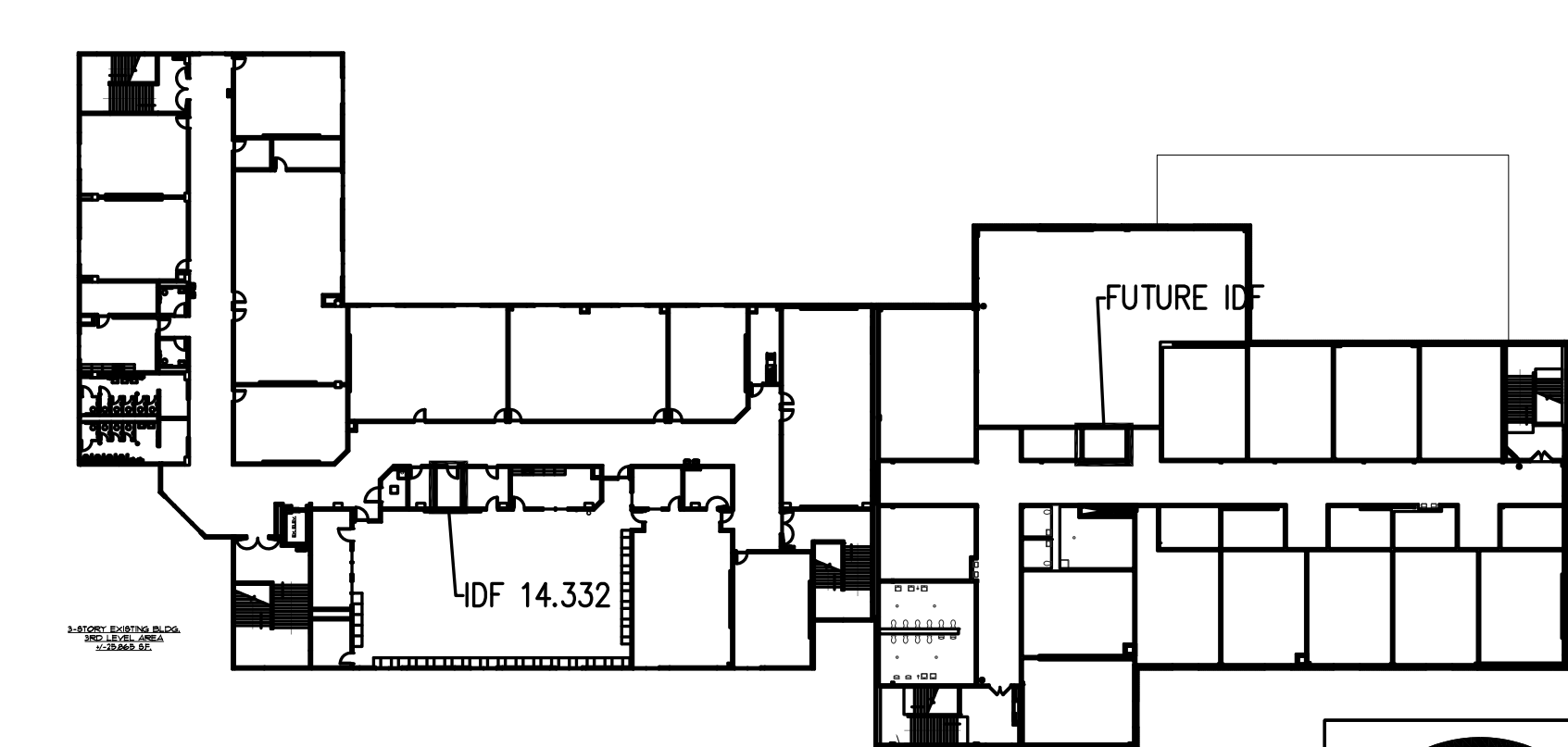
SITE PLAN  
2 NEW 3 STORY ADDITION  
LO.I 1"=50'-0"



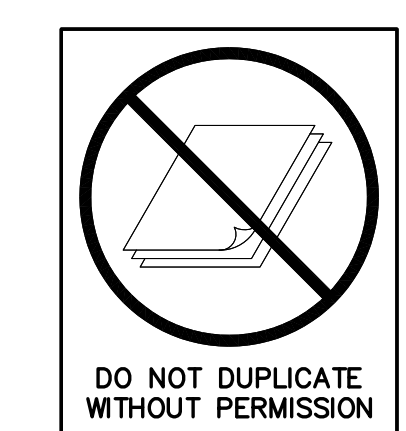
3 EXISTING LOWER LEVEL  
LO.I 1"=50'-0"



4 EXISTING 2ND LEVEL  
LO.I 1"=50'-0"



5 EXISTING 3RD LEVEL  
LO.I 1"=50'-0"



DO NOT DUPLICATE  
WITHOUT PERMISSION

**SPURLOCK & ASSOCIATES, INC.**  
consulting engineers  
2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
P: 404.633.0245 | F: 404.633.1754  
SA JOB NO. 2016

FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

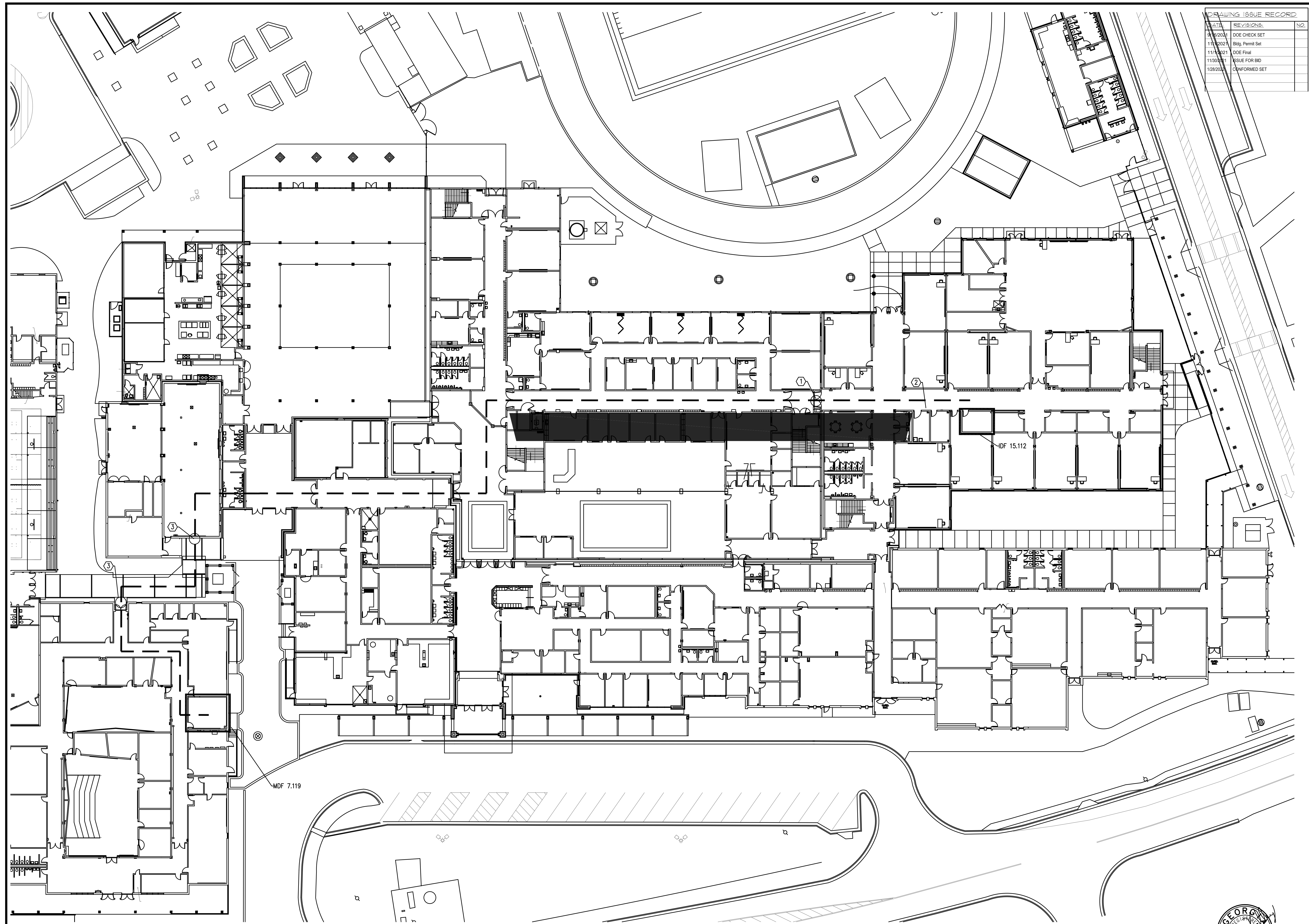
DATE: MARCH 1, 2021  
JOB NO.: 541-DO-21  
DWG. BY: BDC  
CHK. BY: JRY

**cunningham forehand matthews moore**

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**LO.1**

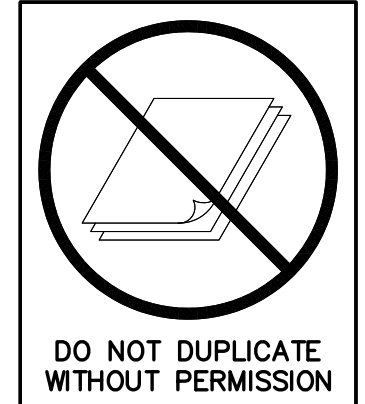
DATE	REVISIONS:	NO.
9/16/2021	DOE CHECK SET	
11/17/2021	Bldg. Permit Set	
11/17/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
12/22/2021	CONFIRMED SET	



- GENERAL NOTES:**
- DIV 27 WILL BE RESPONSIBLE FOR ALL PENETRATIONS FROM MDF TO THE NEW ADDITION.
  - DIV 27 WILL BE RESPONSIBLE FOR ALL CONDUIT ROUTES ABOVE CANOPIES.
  - DIV 27 WILL BE RESPONSIBLE FOR ALL PENETRATION FIRE CAULKING IN THE EXISTING BLDG.
  - DIV 27 WILL BE RESPONSIBLE FOR A SINGLE J-HOOK IN THE EXISTING BLDG. TO SUPPORT THE NEW FIBER AND 25 PAIR.

- KEYNOTES:**
- DIV 26 WILL PROVIDE 1-4" SLEEVE FROM EXISTING BLDG TO NEW ADDITION
  - DIV 26 WILL PROVIDE A RISER PENETRATION AT THIS LOCATION.
  - DIV 27 WILL PROVIDE/INSTALL 3" CONDUIT OVER CANOPY FOR FIBER AND 25 PAIR. 25 PAIR LIGHTING PROTECTION WILL BE REQUIRED AT EACH ENTRY LOCATION.

**SITE PLAN**  
 ① NEW FIBER/25PAIR ROUTE  
 LO2 1"=20'-0"



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 consulting engineers  
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FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**

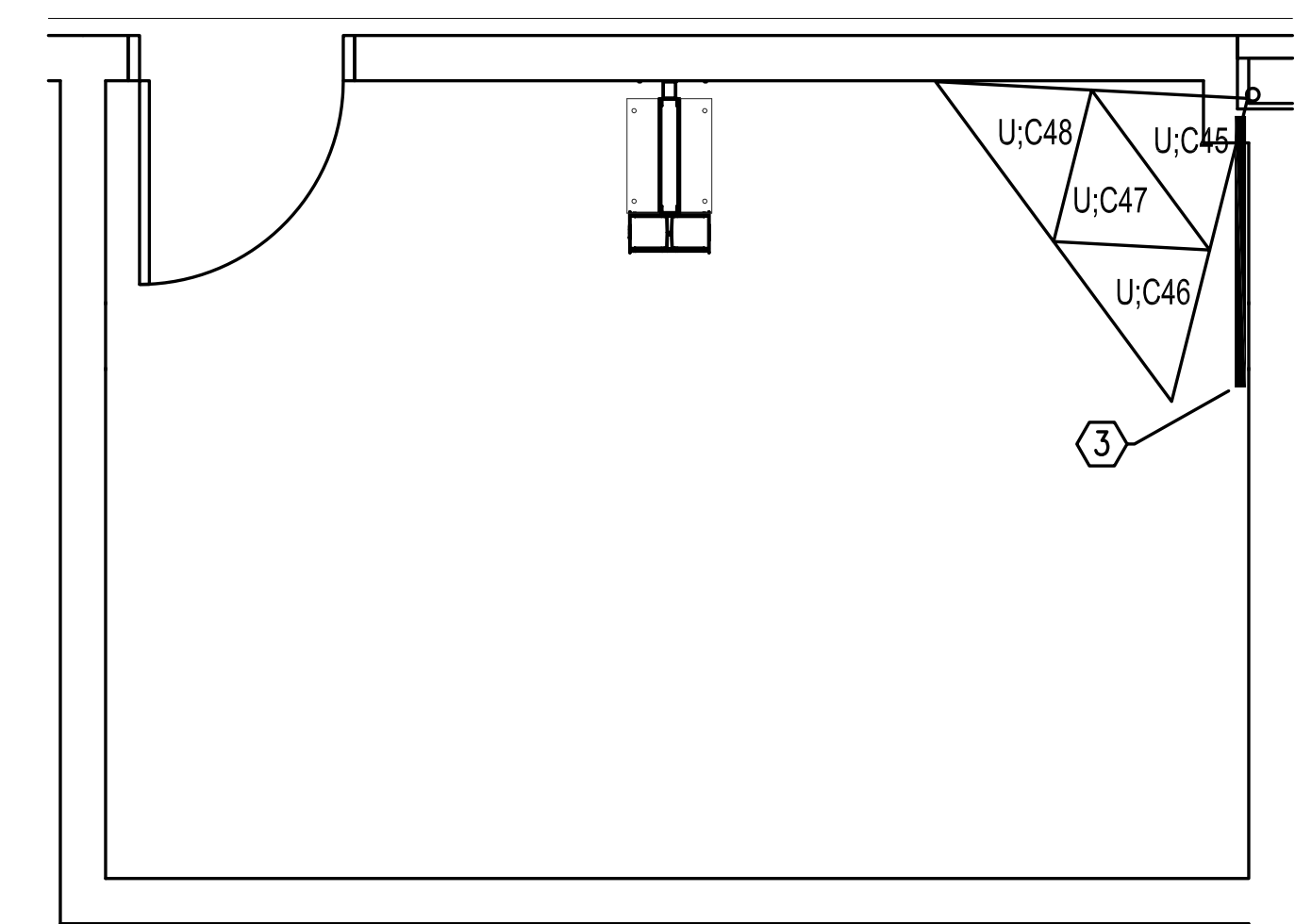
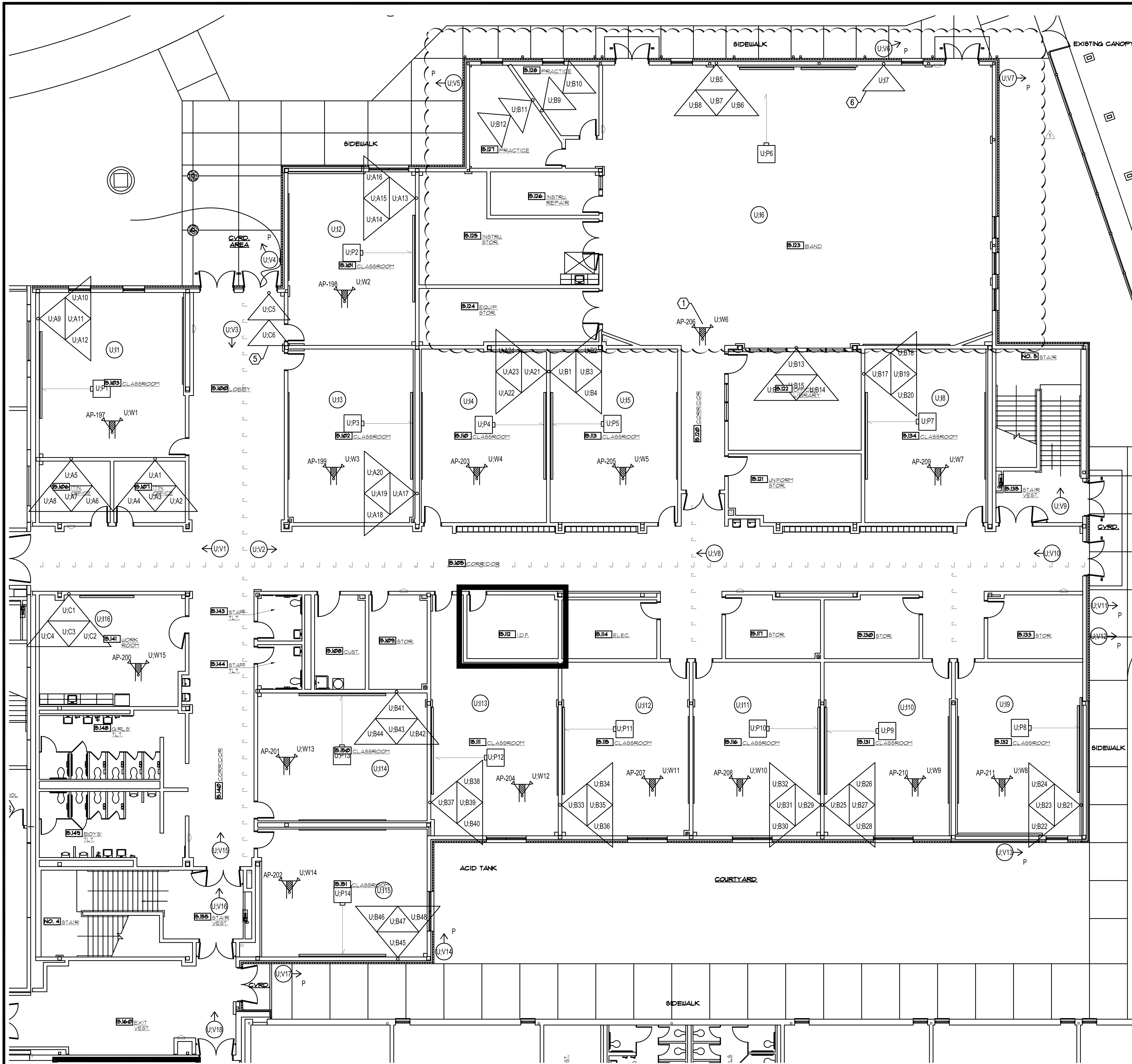
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 JOB NO.: 54L-001-21  
 DWG. BY: BDC  
 CK. BY: JRT

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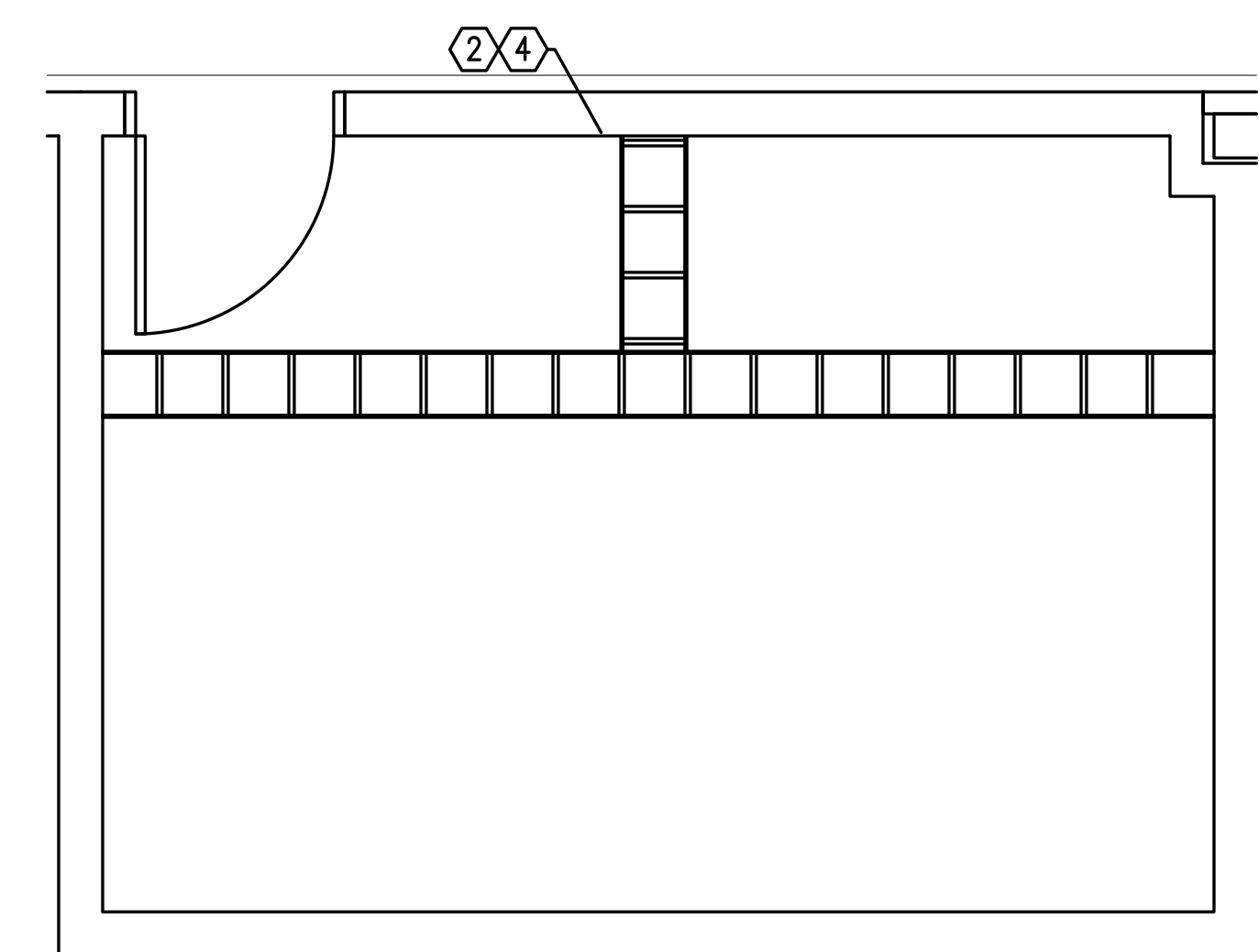
**L0.2**



DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
12/16/2021	ADDENDUM NO. 2	
1/28/2022	CONFORMED SET	



2 LARGE SCALE IDF 15.112  
L.I.O. 3/8"=1'-0"

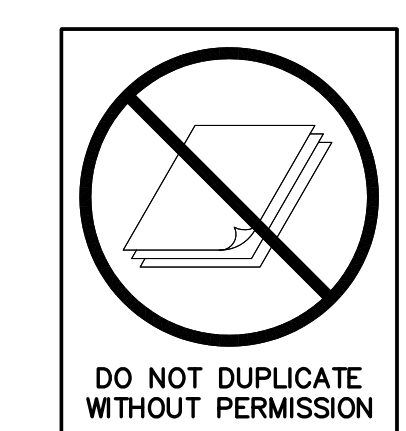


3 LARGE SCALE IDF 15.112  
L.I.O. 3/8"=1'-0"

1 MAIN LEVEL ADDITION IDF U DATA PLAN  
L.I.O. 1/8"=1'-0"

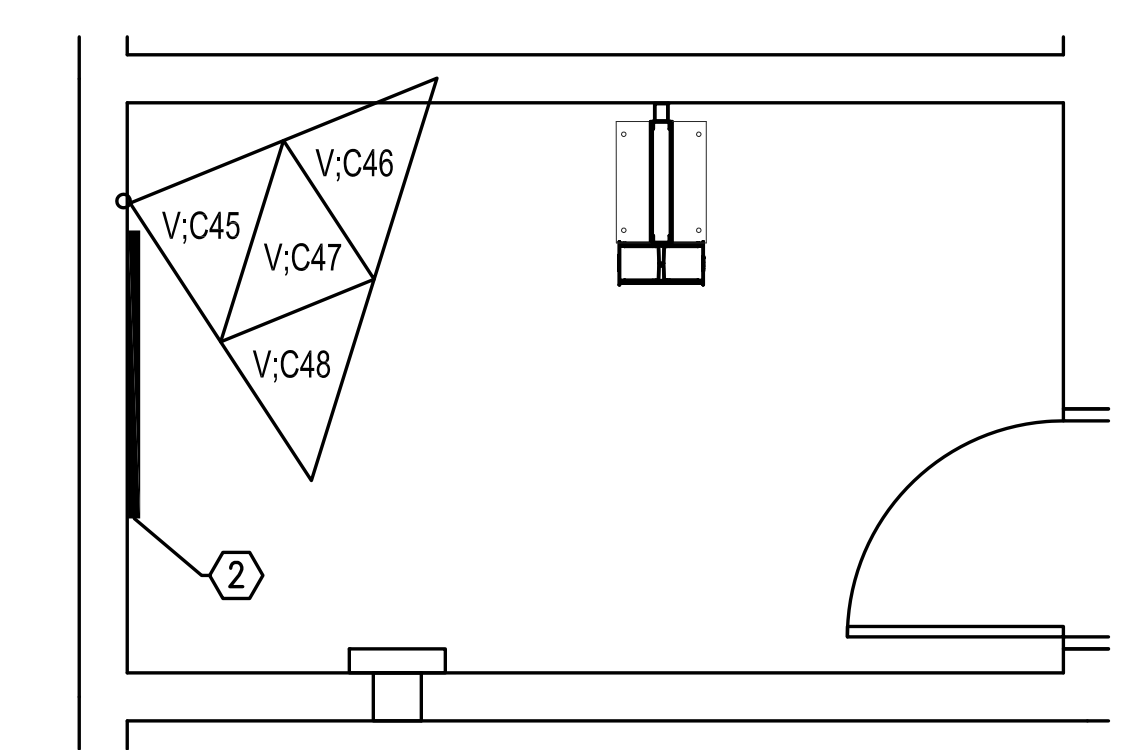
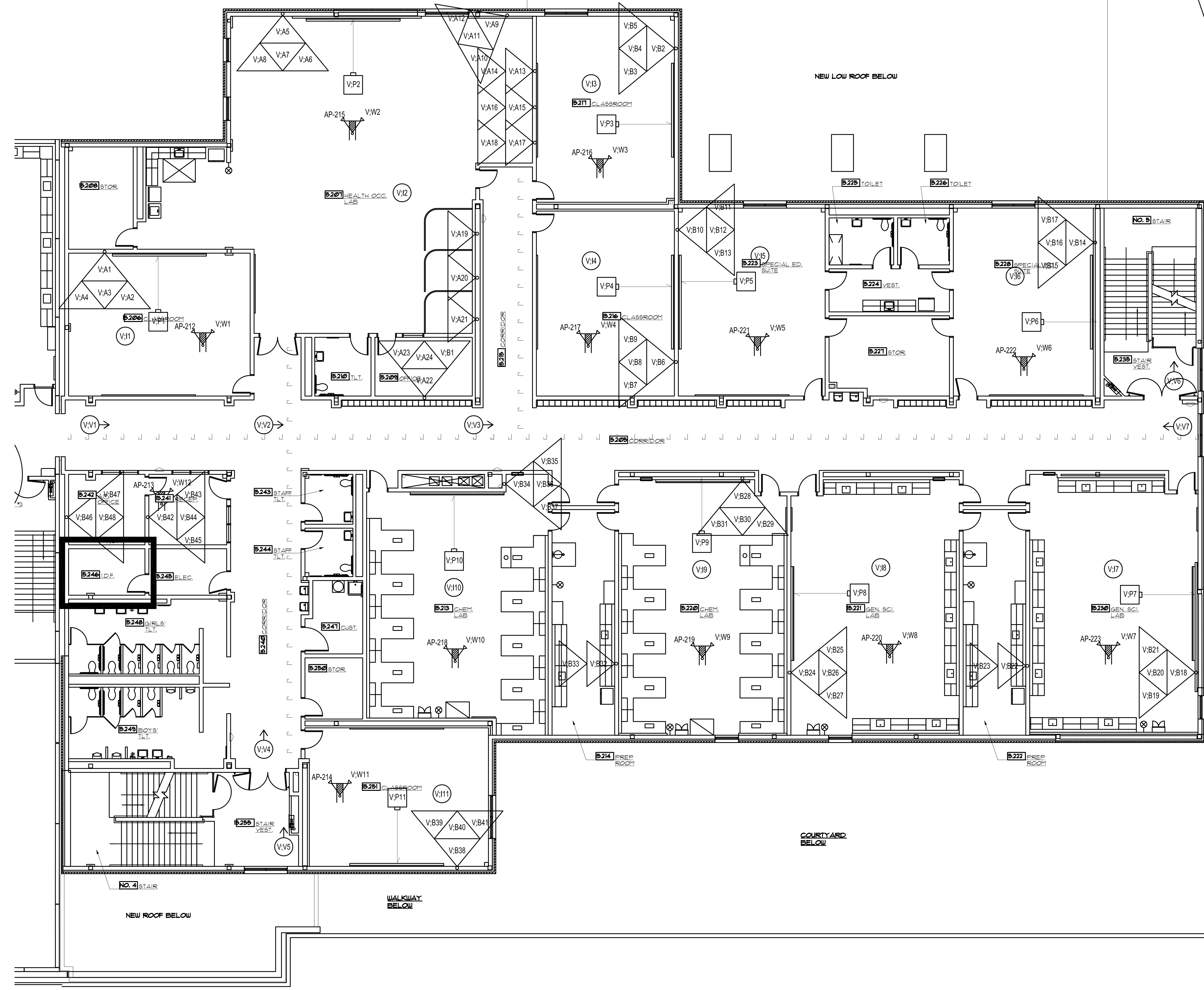
- KEYNOTES:
- DIV 27 TO PROVIDE & INSTALL OBERON 1016-C ENCLOSURE. PLACE DROP LABEL ON THE INSIDE COVER.
  - DIV 26 WILL PROVIDE 1-20AMP CIRCUIT ABOVE CEILING.
  - REFER TO IDF EMS BACK BOARD DETAIL.
  - DIV 26 WILL PROVIDE PENETRATIONS INTO IDF, SEE CONDUIT DETAIL.
  - LEAVE DROPS ABOVE CEILING WITH 20FT SERVICE LOOP. ALSO INSTALL 1-18/2 CONDUCTOR CABLE FROM IDF TO DOOR WITH 20FT SERVICE LOOP ON EACH END.
  - THIS DROP IS TO BE YELLOW HORIZONTAL CABLE WITH YELLOW JACK.

- GENERAL NOTES:
- PLACE WIRELESS, PROJECTOR & INTERCOM DROPS IN THE CTR OF THE CLASSROOMS. WIRELESS DROP IS TO BE INSTALLED IN A SEPARATE BISCUIT BOX.

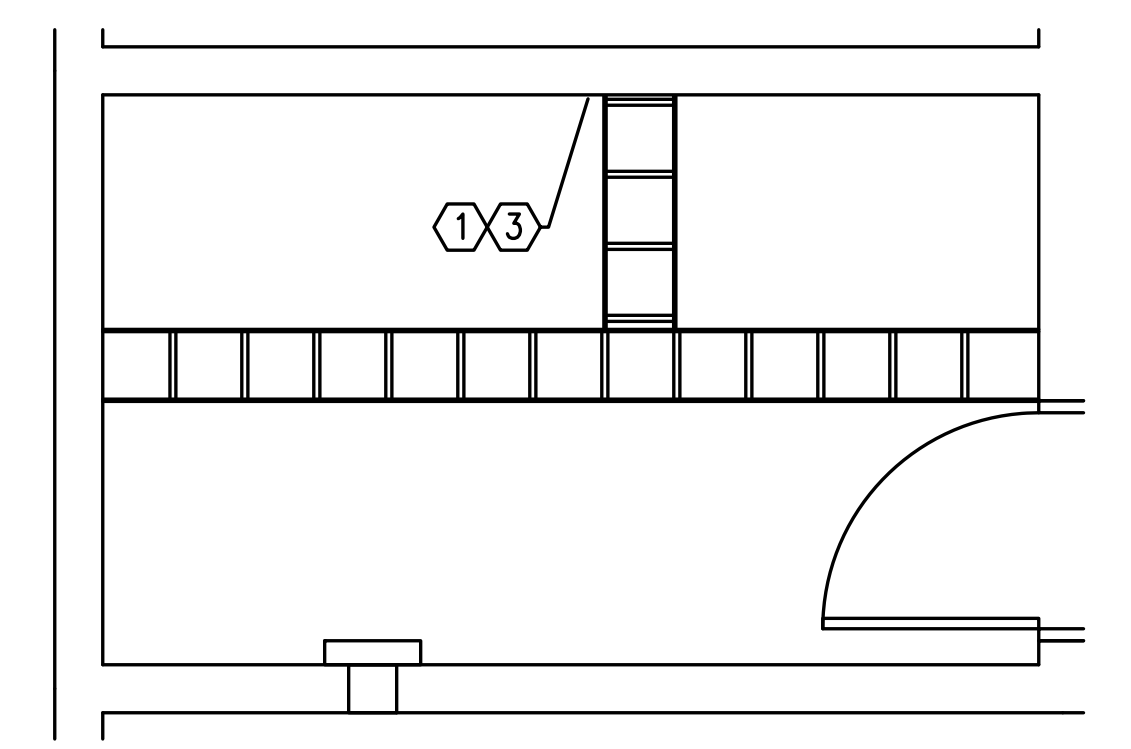


FACILITY CODE 667-4556  
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 JOB NO.: 541-001-21  
 DWG. BY: BDC  
 CK. BY: JRY  
**cunningham, forehand, matthews & moore, architects, inc.** - 2011 manchester street, n.e. - atlanta, georgia 30324 - phone (404) 873-2152  
**L1.0**

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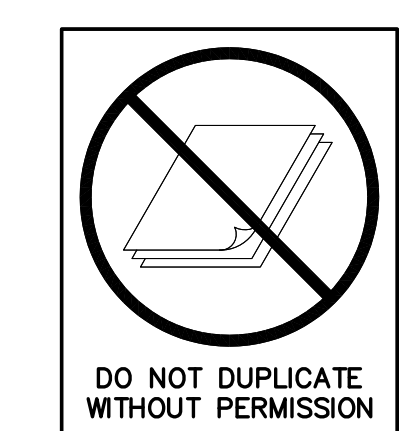
1 LARGE SCALE IDF 15.246  
L.I.1 3/8"=1'-0"



3 LARGE SCALE IDF 15.246  
L.I.1 3/8"=1'-0"

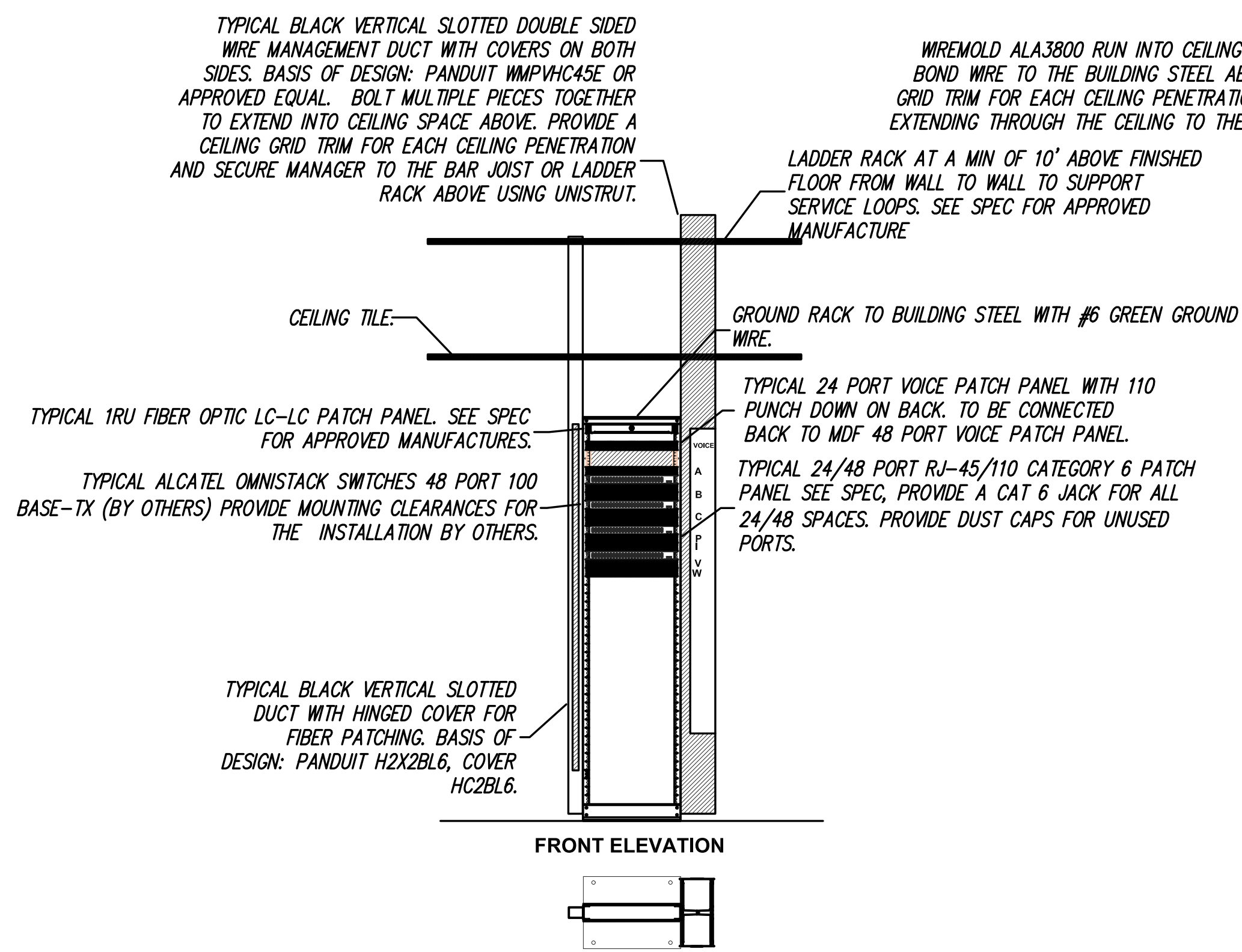
1 SECOND LEVEL ADDITION IDF V DATA PLAN  
L.I.1 1/8"=1'-0"

- GENERAL NOTES:
1. PLACE WIRELESS, PROJECTOR & INTERCOM DROPS IN THE CTR OF THE CLASSROOMS. WIRELESS DROP IS TO BE INSTALLED IN A SEPARATE BISCUIT BOX.
- KEYNOTES:
- 1 DIV 26 WILL PROVIDE 1-20AMP CIRCUIT ABOVE CEILING.
  - 2 REFER TO IDF EMS BACK BOARD DETAIL.
  - 3 DIV 26 WILL PROVIDE PENETRATIONS INTO IDF, SEE CONDUIT DETAIL.

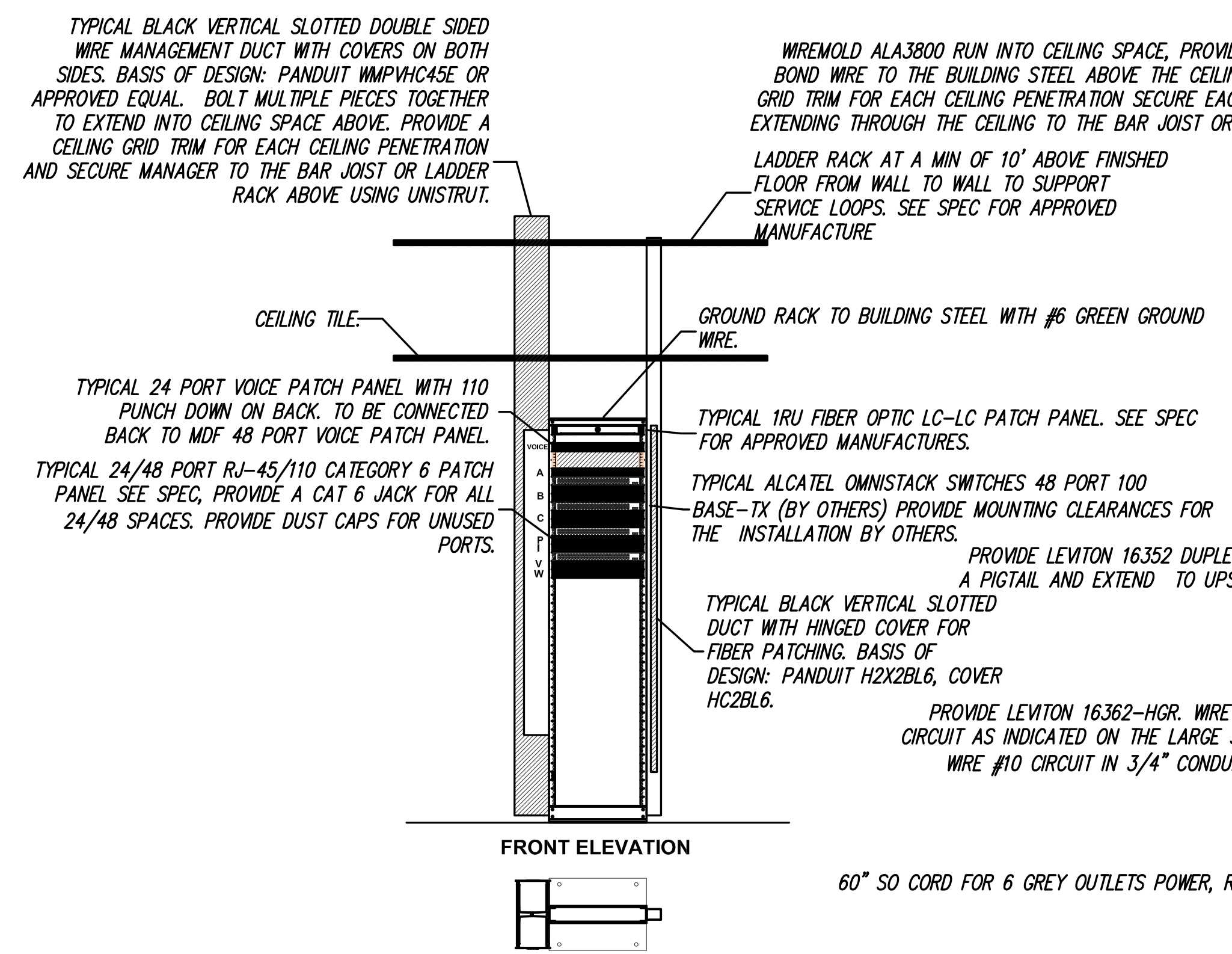
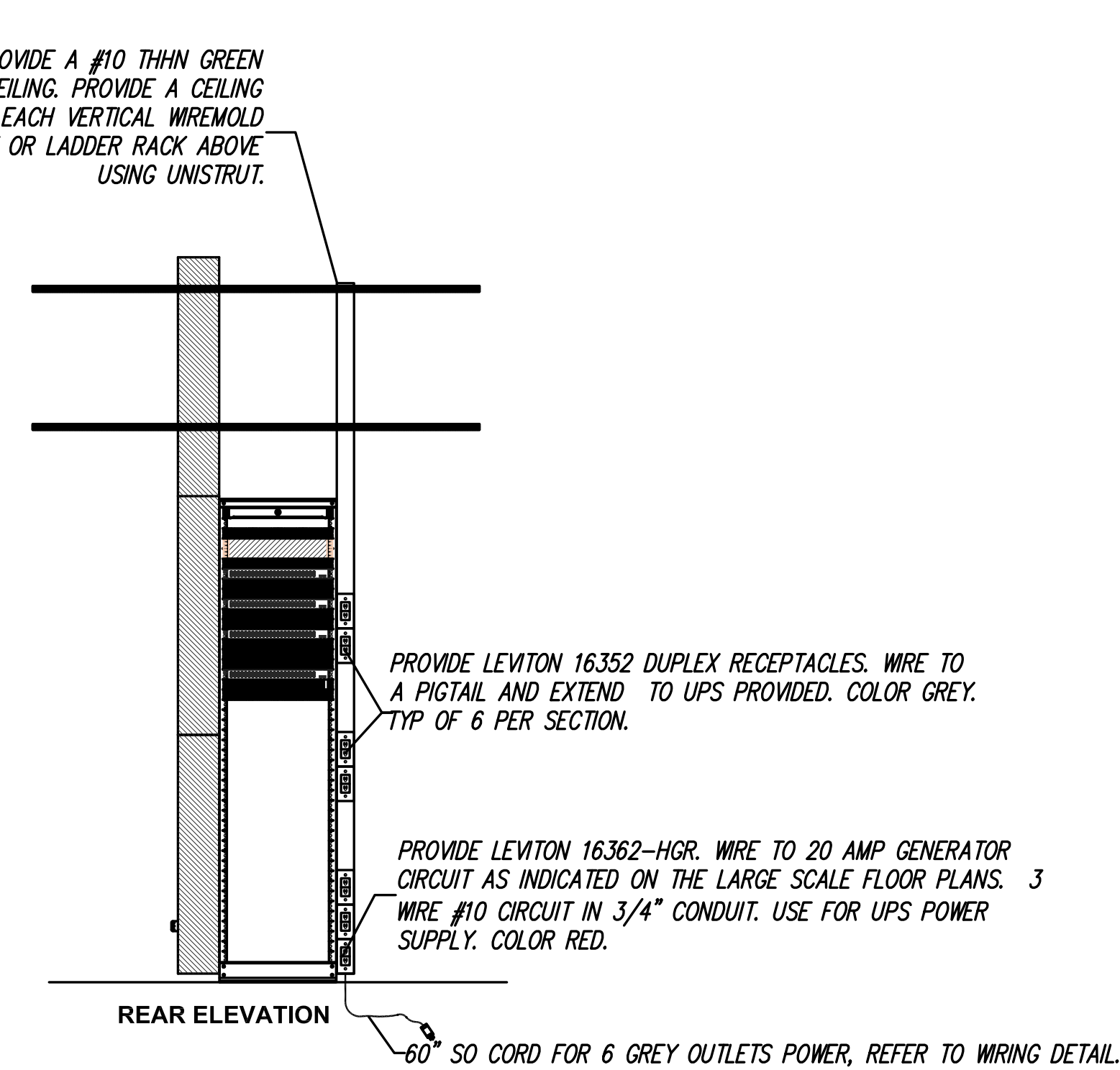


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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
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 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
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**L1.1**

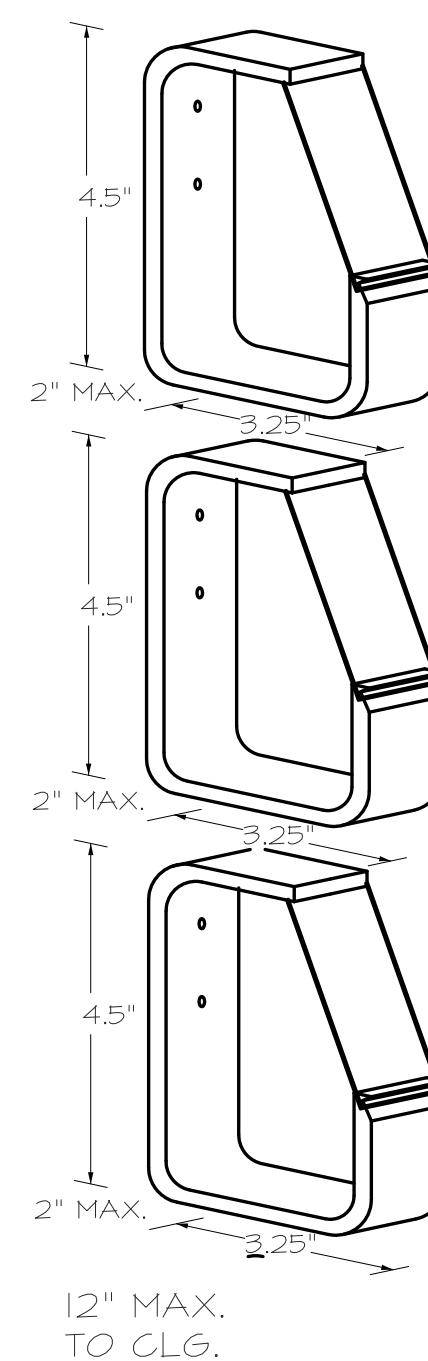
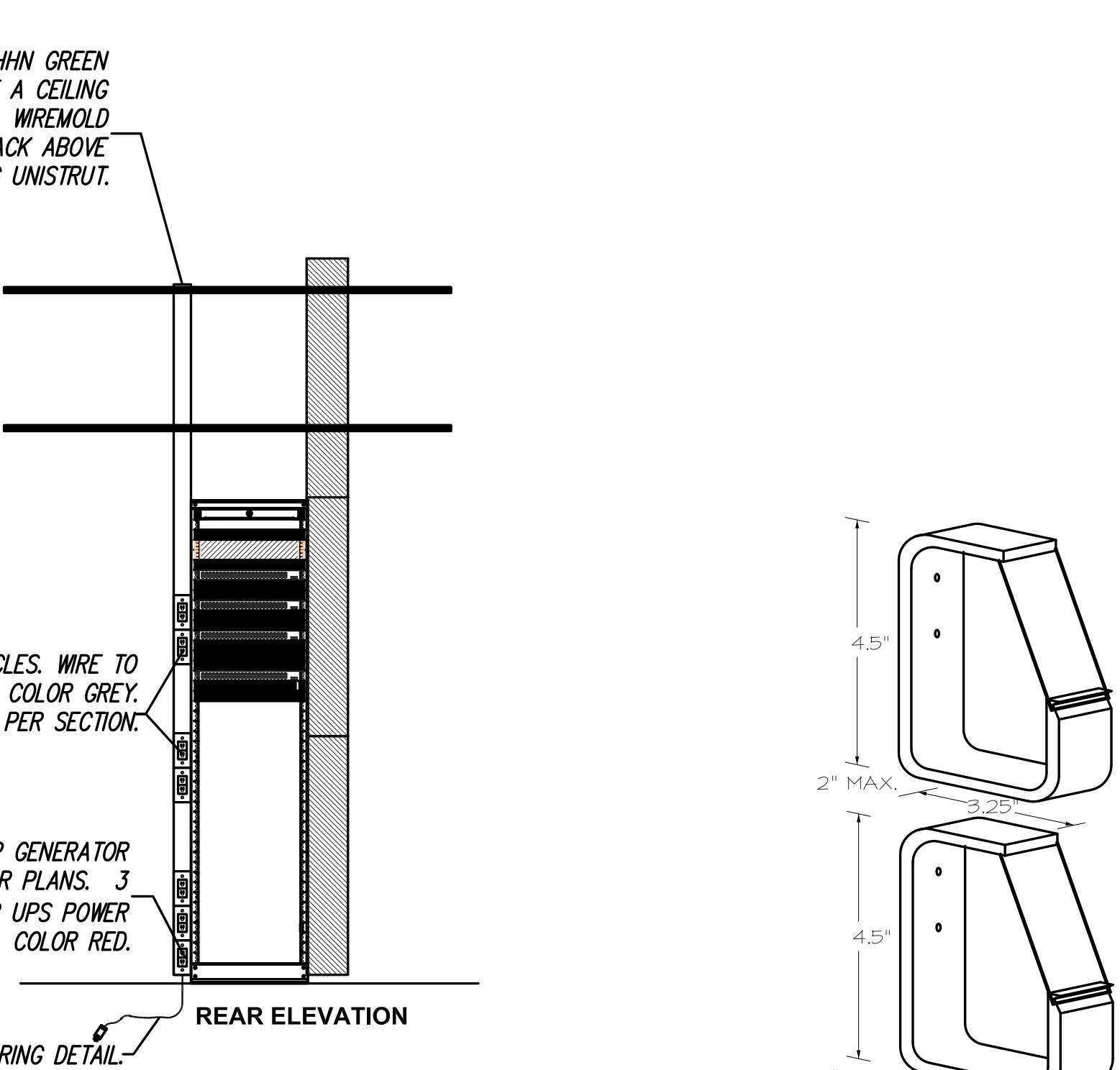
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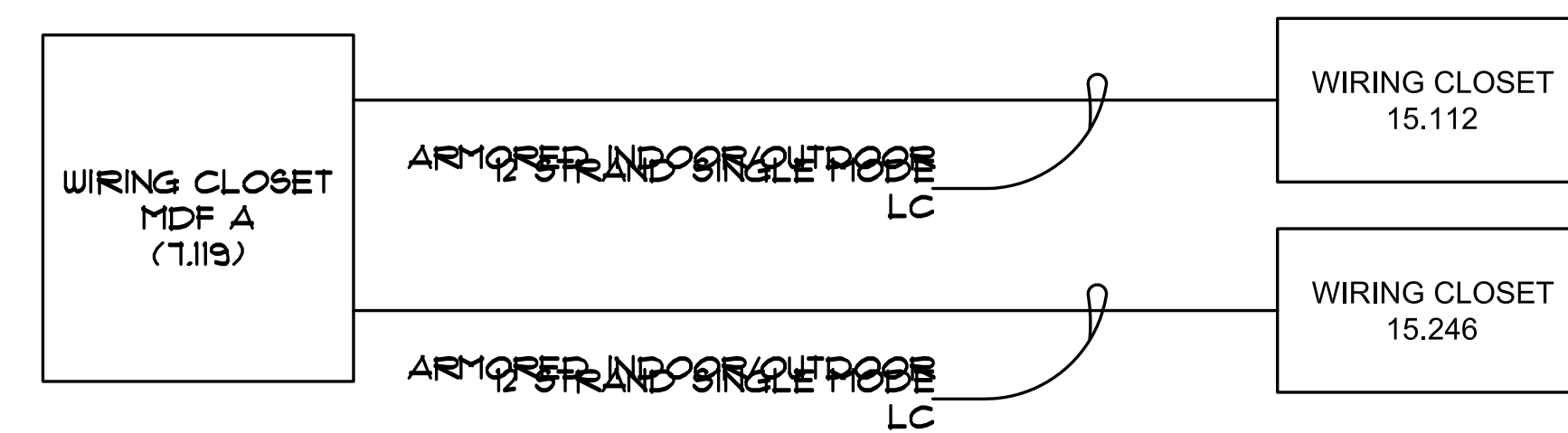
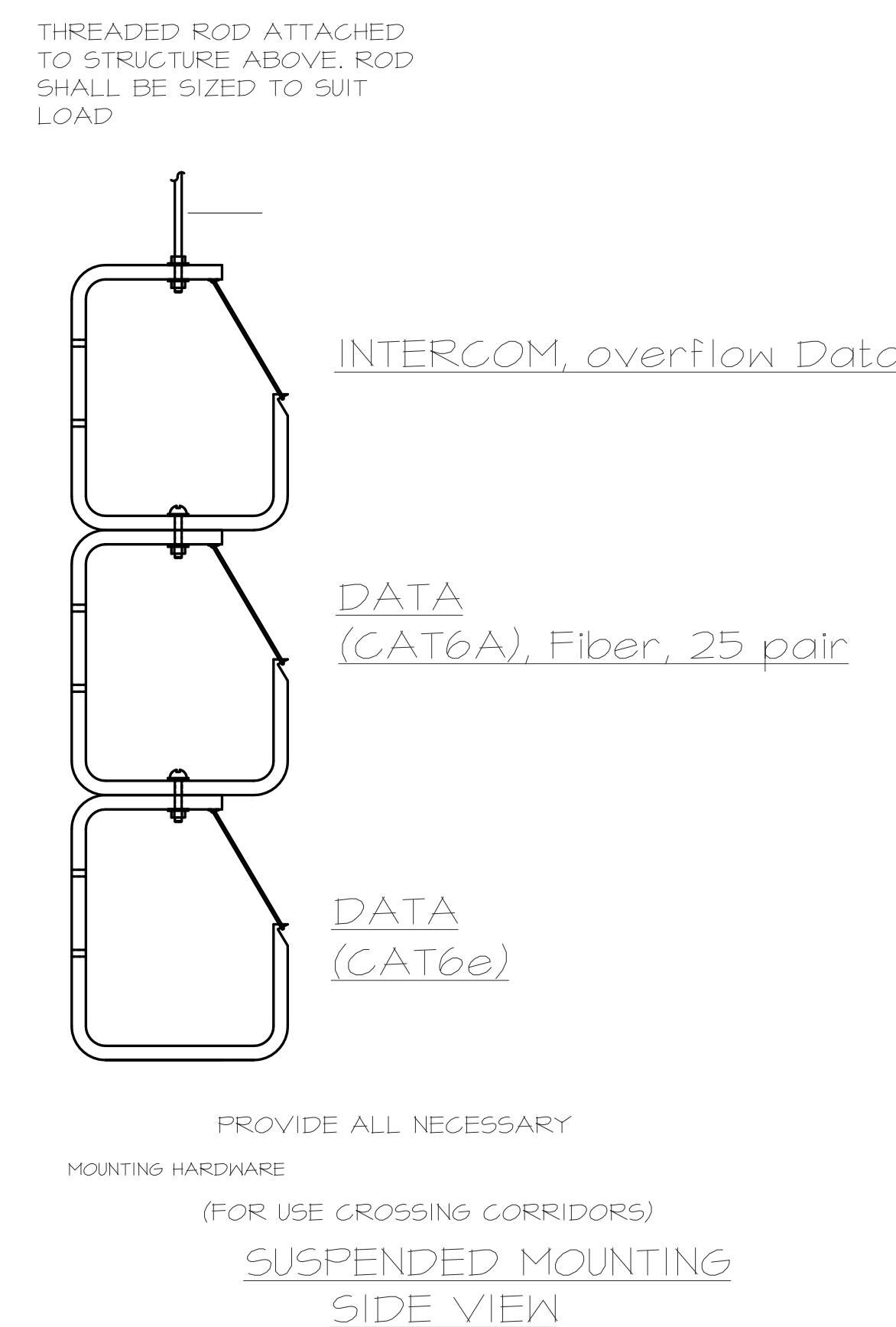
1 IDF 15.112 RACK DETAIL  
L2.0 1/2"=1'-0"



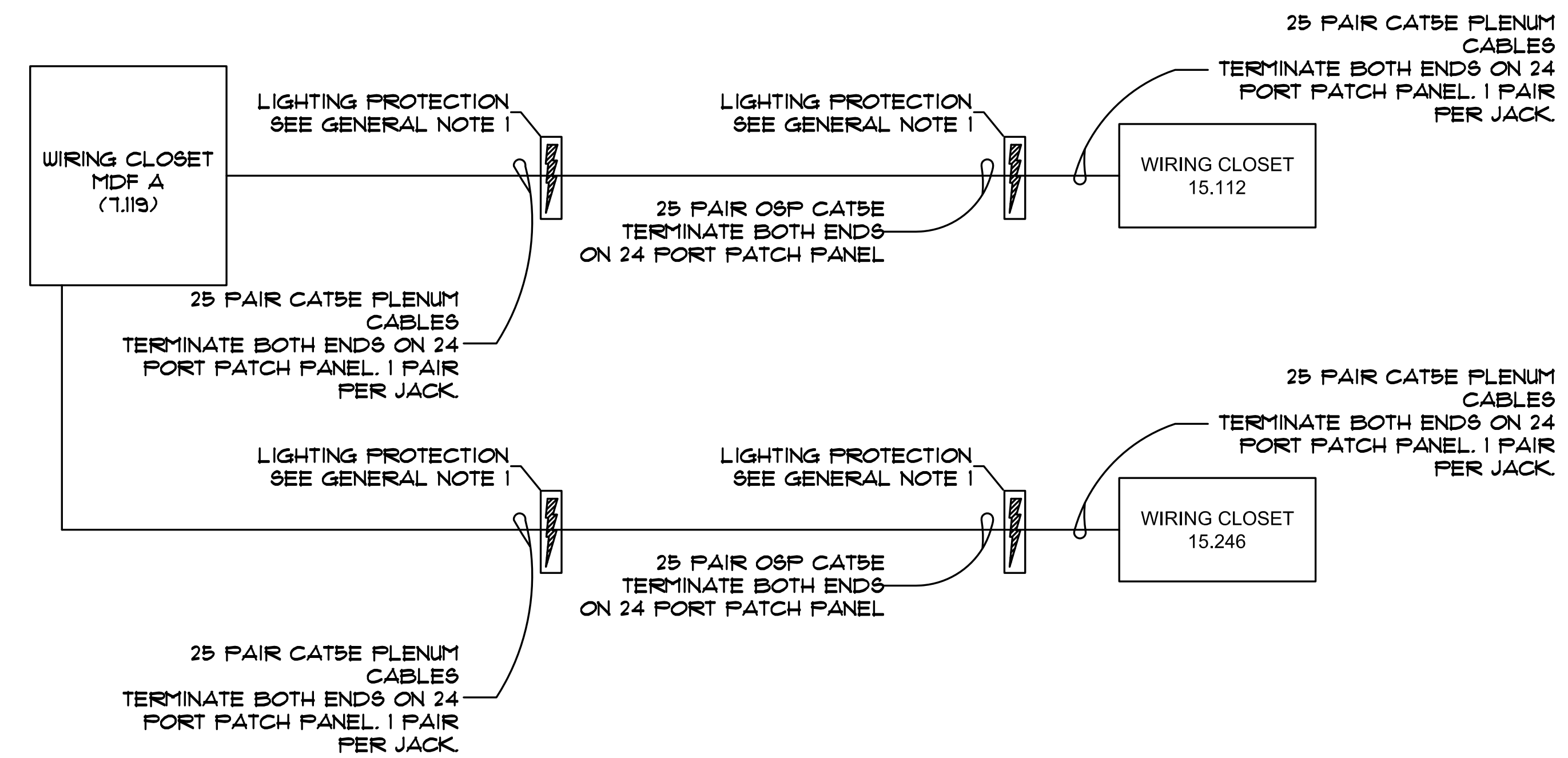
2 IDF 15.246 RACK DETAIL  
L2.0 1/2"=1'-0"



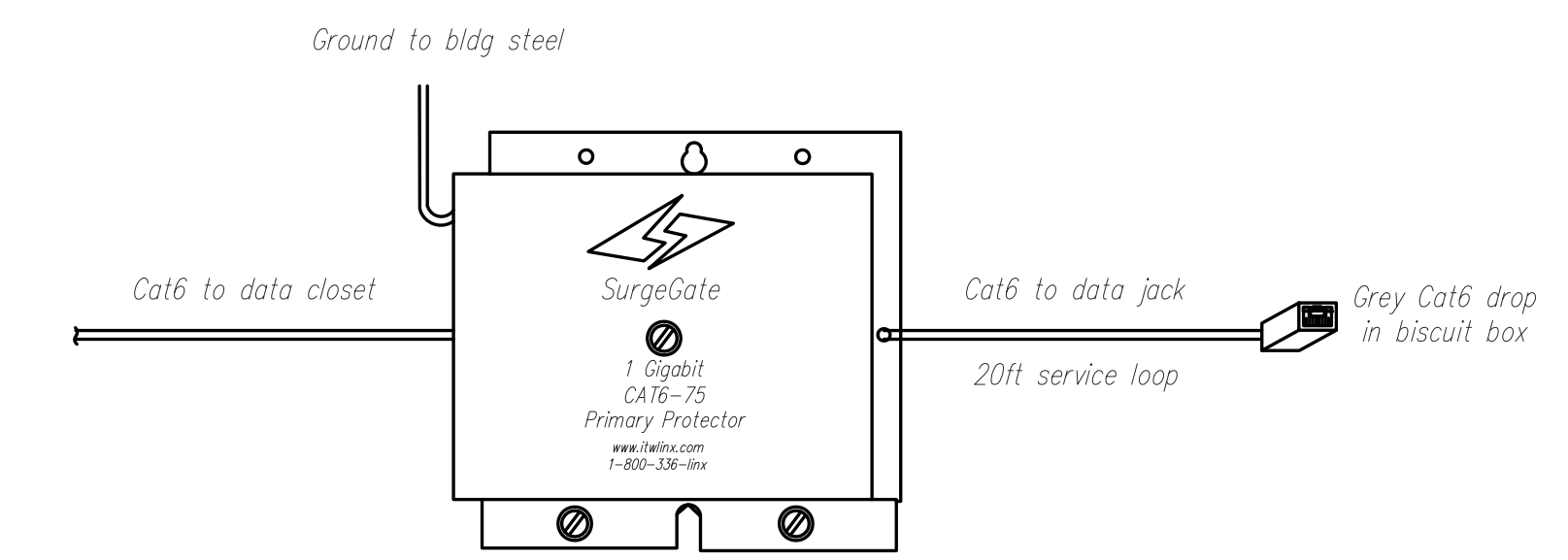
5 CABLE HANGER DETAIL  
L2.0 NTS



3 FIBER OPTIC RISER  
L2.0 NTS



4 TELEPHONE RISER  
L2.0 NTS



6 EXTERIOR BLDG OUTDOOR CAMERA ITW LINKS WIRING DIAGRAM  
L2.0 NTS

- GENERAL NOTES:
- LIGHTING PROTECTION: AT EACH BLDG ENTRANCE 1/2" WIRE TO BUILDING WATER PIPE OR INSTALL GROUNDING ROD ON EXTERIOR OF BUILDING AND CONNECT. GROUNDING ROD MUST BE 6 FT IN THE GROUND. CONNECT WIRE TO WATER PIPE WITH PANDUIT GROUNDING CLAMP KPI-C OR KP2-L. CONNECT WIRE TO GROUNDING ROD WITH PANDUIT WB12-L. 1 CIRCA GAS FUSIBLE 5 PIN CONNECTOR (4BI) FOR EACH PAIR. 1 CIRCA 2625QC/QC.

WALL MOUNTING ISOMETRIC VIEW

DIV 27 PROVIDES AND INSTALLS WHERE SHOWN ON DRAWINGS. MONO-SYSTEMS, INC. MODELS H-433-5 STEEL CABLE HANGERS. MOUNT ON STUD/WALL AS SHOWN.

INTERCOM CABLING SHALL BE RUN IN DESIGNATED CABLE HANGER

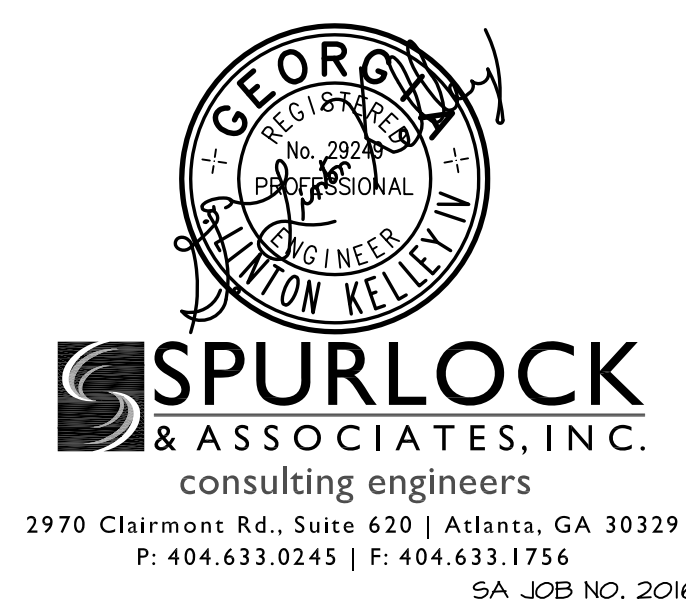
LOW VOLTAGE SYSTEM CABLING INCLUDING EMS SYSTEM, SECURITY/CCTV SYSTEMS AND FIRE ALARM CABLING, SHALL BE RUN IN UPPER CABLE HANGER.

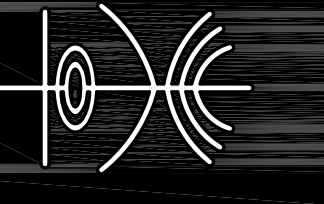
DATA CABLING SHALL BE RUN IN LOWER TWO HANGERS (ONE DEDICATED FOR CAT6A CABLING TO SUPPORT WIRELESS NETWORK).

HANGERS SHALL BE MOUNTED 3" ON CENTER ALONG ENTIRE LENGTH OF HOMERUNS, WHERE SINGLE CABLES CROSS CORRIDOR, SUSPEND FROM STRUCTURE USING PLENUM RATED CABLE TIES.

APPROVED EQUAL PRODUCTS AS MANUFACTURED BY ATLAS, ERICO OR SOUTHERN SPECIALTIES ARE ACCEPTABLE.

APPROVED EQUAL PRODUCTS AS MANUFACTURED BY ATLAS, ERICO, PANDUIT OR SOUTHERN SPECIALTIES ARE ACCEPTABLE.





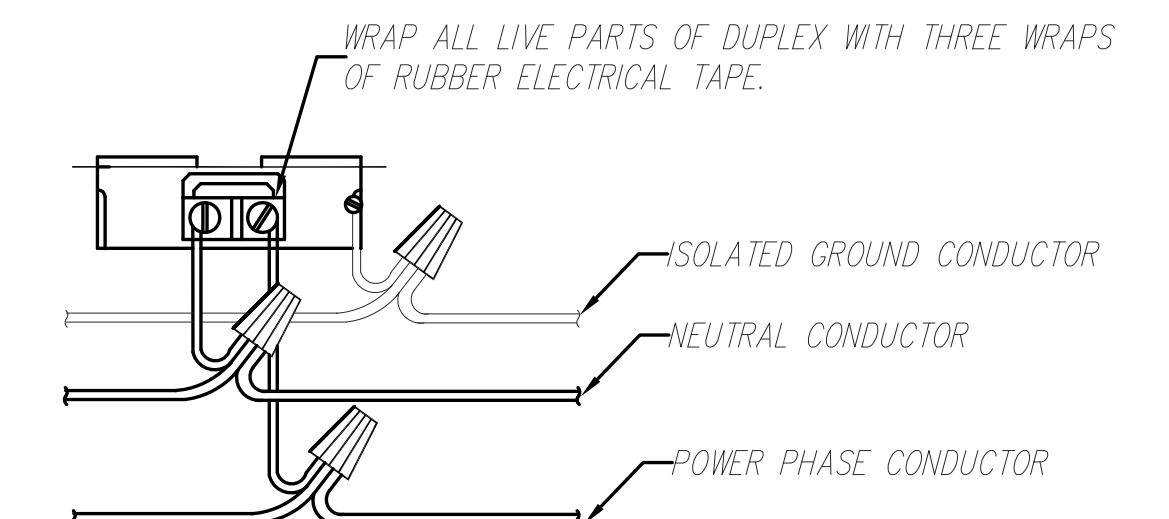
FACILITY CODE 667-4556  
**NORTH GUINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GUINNETT COUNTY BOARD OF EDUCATION  
 GUINNETT COUNTY, GEORGIA

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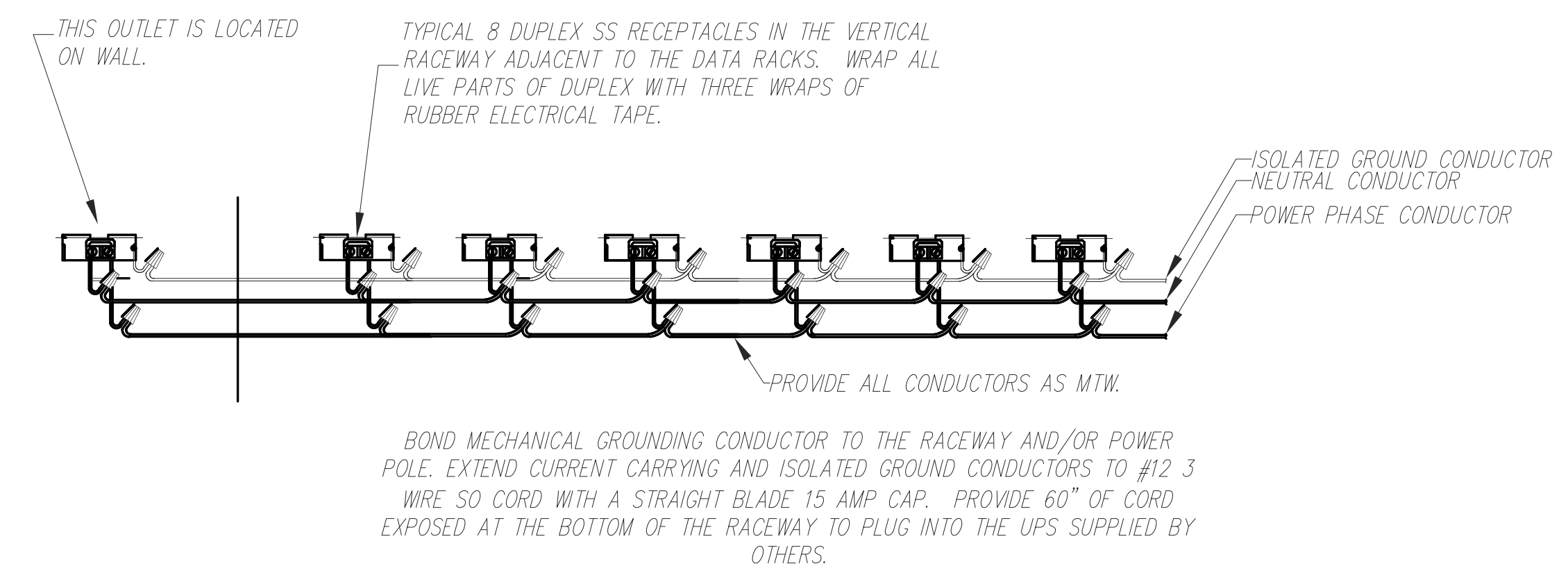
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DRAWING ISSUE RECORD		
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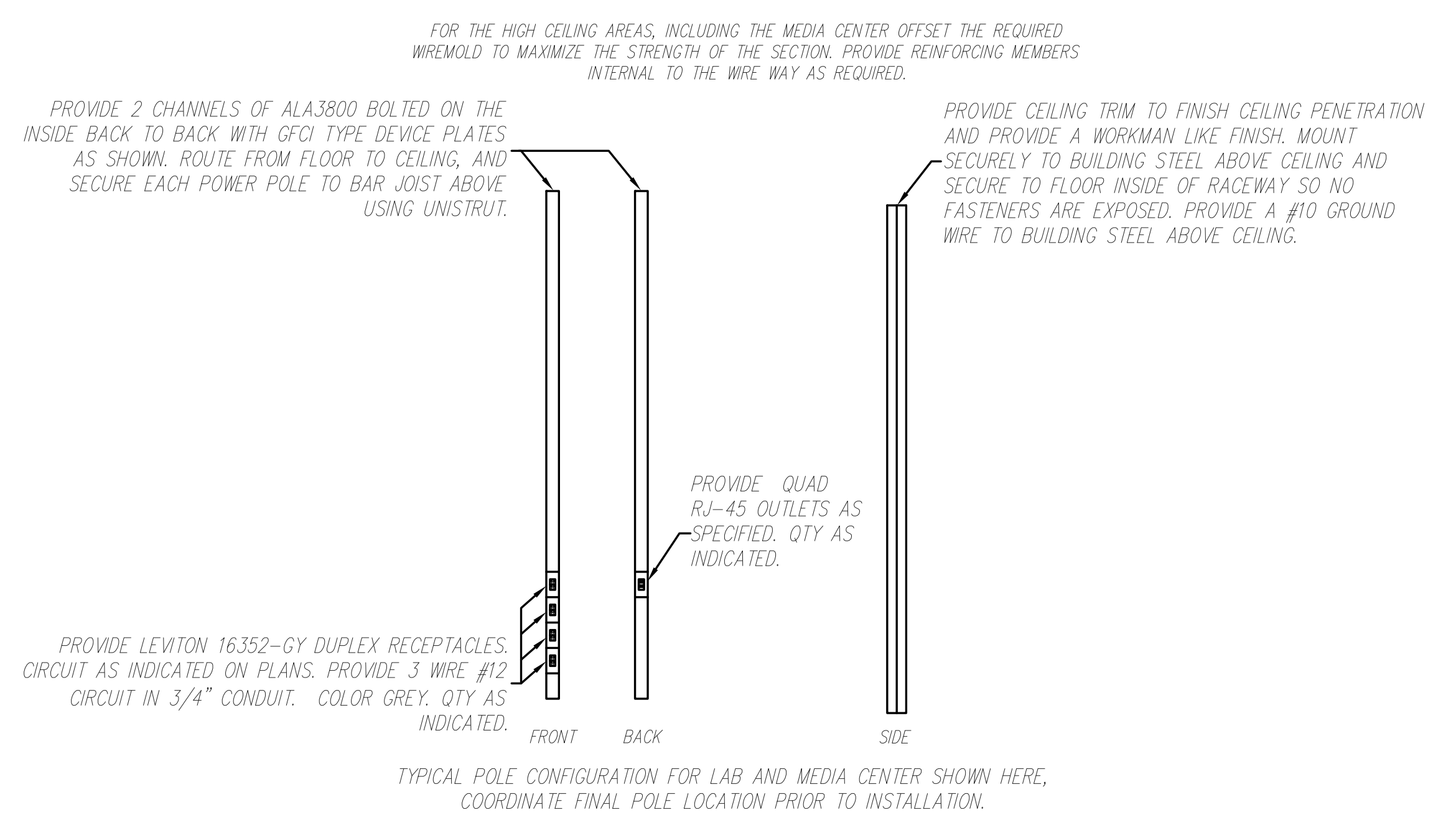
SYMBOL LIST	
SYMBOL	SYMBOL DESCRIPTION
	PROVIDE A QUAD DUPLEX LAN OUTLET WITH THE INDICATED QUANTITY OF LAN OUTLETS PER THE PROJECT SPECIFICATIONS. DIV 26 WILL PROVIDE 1" CONDUIT AND FLUSH 2 1/2" DEEP 1900 BACK BOX WITH A 1 1/2" SINGLE GANG PLASTER RING. DIV 27 WILL PROVIDE STAINLESS STEEL FACE PLATE FLUSH MOUNTED TO THE WALL. THE DROP CAN BE RELOCATED TO ANY LOCATION INSIDE THE ROOM AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHOULD REQUEST FINAL LOCATION INFORMATION FROM THE ENGINEER AND THE GC'S CONSTRUCTION COORDINATOR PRIOR TO ROUGH-IN.
	PROVIDE A WIREMOLD ALA3800 TWO CHANNEL POWER POLE WITH THE INDICATED QUANTITY OF DUPLEX LAN OUTLETS PER THE PROJECT SPECIFICATIONS, AND AS SHOWN ON THESE DRAWINGS. REFER TO POWER POLE DETAIL DRAWING, FINAL CONFIGURATIONS AND LOCATIONS MUST BE APPROVED BY THE ENGINEER AND THE GC'S CONSTRUCTION COORDINATOR.
	PROVIDE A WIREMOLD ALA4800 TWO SECTION WIRE WAY WITH A DUPLEX LAN OUTLET PER THE PROJECT SPECIFICATIONS. SEE DETAIL FOR WIREMOLD ALA4800 LAB DETAILS.
	LADDER RACK. SEE SPEC
	PROVIDE A SINGLE CAT6 LAN DROP PER THE SPECIFICATIONS. WIRELESS DROP WILL BE TERMINATED IN THE WIRELESS PATCH PANEL AS INDICATED. TERMINATE DROP IN A BISCUIT BOX ABOVE CEILING IN THE MIDDLE OF THE CLASSROOM. TERMINATE CABLE ON CLASSROOM SIDE WITH A RJ45/110 DATA JACK. PROVIDE A LABEL AFFIXED TO THE CEILING GRID VISIBLE FROM THE GROUND INDICATING THE PATCH PANEL NUMBER.
	PROVIDE 1" CONDUIT AND TWO BY FOUR BACK BOX WITH SINGLE GANG PLASTER RING. PROVIDE LEVITON 16352-GY DUPLEX RECEPTACLES AS SPECIFIED IN A SINGLE GANG BACK BOX AS SHOWN. CIRCUIT TO NEW CP-P PANEL AS INDICATED. THE OUTLET CAN BE RELOCATED TO ANY LOCATION INSIDE THE ROOM AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHOULD REQUEST LOCATION INFORMATION FROM THE ENGINEER PRIOR TO ROUGH IN.
	PROVIDE A WIREMOLD ALA3800 TWO CHANNEL POWER POLE WITH THE INDICATED QUANTITY OF LEVITON 16352-GY DUPLEX POWER OUTLETS PER THE PROJECT SPECIFICATIONS, AND AS SHOWN ON THESE DRAWINGS. FINAL CONFIGURATIONS AND LOCATIONS MUST BE APPROVED BY THE ENGINEER AND THE GUINNETT COUNTY CONSTRUCTION COORDINATOR.
	PROVIDE LEVITON 16352-GY DUPLEX RECEPTACLES AS SPECIFIED IN THE WIREMOLD ALA4800 TWO SECTION WIRE WAY AS SHOWN. CIRCUIT TO NEW CP-P PANEL AS INDICATED. SEE DETAIL FOR WIREMOLD ALA4800 LAB DETAILS.
	PROVIDE A SINGLE LAN DROP PER THE SPECIFICATIONS. PROJECTOR DROP WILL BE TERMINATED IN THE PROJECTOR PATCH PANEL AS INDICATED. TERMINATE DROP IN A BISCUIT BOX ABOVE CEILING IN THE MIDDLE OF THE CLASSROOM WITH LABEL. TERMINATE CABLE ON CLASSROOM SIDE WITH A RJ45/110 JACK. PROVIDE A LABEL AFFIXED TO THE CEILING GRID VISIBLE FROM THE GROUND INDICATING THE PATCH PANEL NUMBER.
	CLOSET RACK LOCATION AND LAYOUT. REFER TO RACK DETAILS PAGES L3.1 & L3.2 FOR EXACT CONFIGURATION AND EQUIPMENT TO BE INSTALLED.
	PROVIDE A SINGLE LAN OUTLET WITH 20FT SERVICE LOOP PER THE PROJECT SPECIFICATIONS FOR VIDEO SURVEILLANCE. ALL INDOOR OUTLETS ARE TO BE INSTALLED ABOVE CEILING FOR CORRIDORS AND IN THE WALL FOR STAIRWAYS AS SHOWN. FOR OUTDOOR OUTLETS AND WHERE A "P" IS ADJACENT TO THE SYMBOL, INSTALL AN ITW LINK TOWER MAX SERIES CAT6-75 LAN PROJECTOR LOCATED JUST INSIDE THE BUILDING ENTRANCE, AND GROUND PROPERLY TO BUILDING STEEL. INSTALLATION HEIGHT TO BE DETERMINED IN THE FIELD. THE CONTRACTOR SHALL REQUEST ALL LOCATIONS TO BE VERIFIED IN THE FIELD BY THE ENGINEER AND GC'S COORDINATOR PRIOR TO ROUGH IN. SEE DETAIL ITW DETAIL.
	PROVIDE A SINGLE YELLOW LAN DROP PER THE SPECIFICATIONS. INTERCOM DROP WILL BE TERMINATED IN THE INTERCOM PATCH PANEL AS INDICATED. TERMINATE DROP IN A BISCUIT BOX ABOVE CEILING IN THE MIDDLE OF THE CLASSROOM WITH LABEL. TERMINATE YELLOW CABLE ON CLASSROOM AND IDF SIDE WITH A YELLOW RJ45/110 DATA JACK. PROVIDE A LABEL AFFIXED TO THE CEILING GRID VISIBLE FROM THE GROUND INDICATING THE PATCH PANEL NUMBER.
	PROVIDE A SINGLE BLUE LAN DROP PER THE SPECIFICATIONS. TV DROP WILL BE TERMINATED IN THE PATCH PANEL AS INDICATED. DIV 26 WILL PROVIDE 1" CONDUIT AND FLUSH 2 1/2" DEEP 1900 BACK BOX WITH A 1 1/2" SINGLE GANG PLASTER RING. DIV 27 WILL PROVIDE STAINLESS STEEL FACE PLATE FLUSH MOUNTED TO THE WALL. THE DROP CAN BE RELOCATED TO ANY LOCATION INSIDE THE ROOM AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHOULD REFER TO DIV 26 DRAWINGS FOR FINAL LOCATIONS.
	3 TIER J-HOOKS IN HALLWAY, PROVIDED AND INSTALLED BY DIV 27. PLACEMENT IN THE HALLWAY WILL BE DECIDED BY THE DIV 27 CONTRACTOR FOR BEST RESULTS. DIV 27 WILL NEED TO PROVIDE AND INSTALL ANY OTHER J-HOOKS TO SUPPORT CABLE IN HALLWAYS/CLASSROOMS. SEE J-HOOK DETAIL.



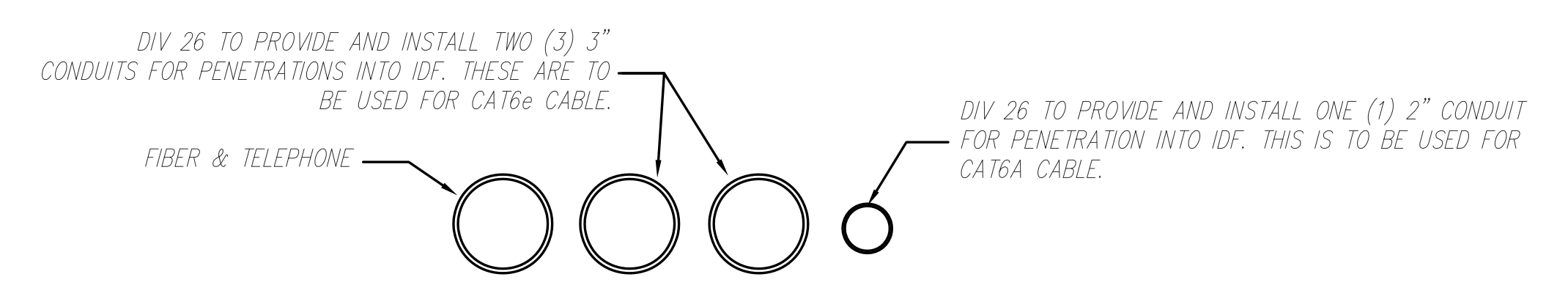
**1 RECEPTACLE CONNECTION DETAIL**  
 L2.1 NTS



**3 DATA RACK RECEPTACLE DETAIL**  
 L2.1 NTS

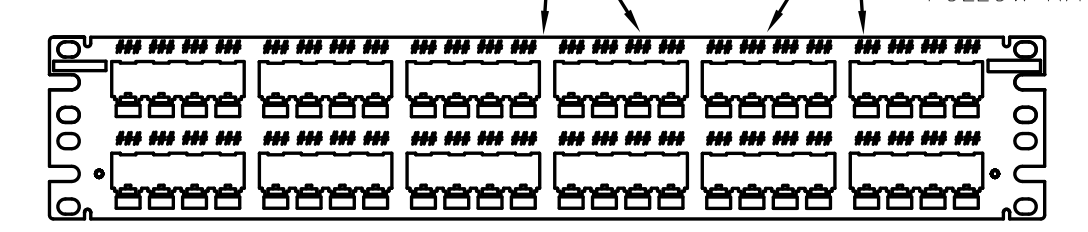


**5 ALA3800 POWER POLE DETAIL**  
 L2.1 NTS

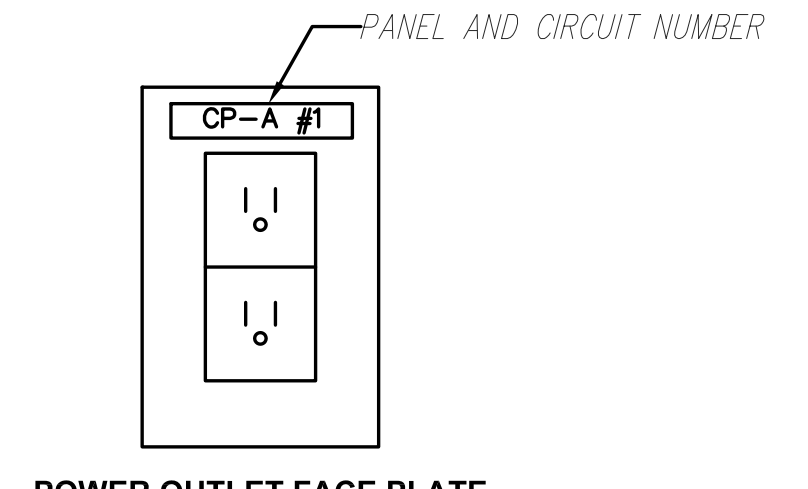


**7 IDF CONDUIT DETAIL**  
 L2.1 NTS

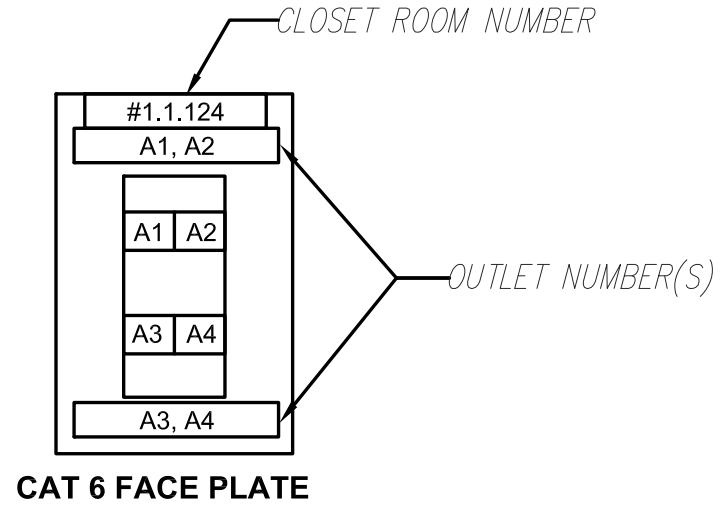
FOR REGULAR LAN CABLING PROVIDE A COMPUTER GENERATED LABEL ABOVE EACH PORT USED. LABEL SHALL INDICATE THE ROOM NUMBER.  
 WIRELESS, PROJECTORS AND VIDEO SURVEILLANCE DATA DROPS ARE IN SEPARATE PATCH PANELS. PROVIDE A COMPUTER GENERATED LABEL ABOVE EACH PORT USED. LABEL SHALL INDICATE THE ROOM NUMBER OR CORRIDOR/AREA IN WHICH IT RESIDES IN. FOLLOW RACK LAYOUT FOR PLACEMENT OF PANELS.



**2 CLOSET PATCH PANELS**  
 L2.1 NTS



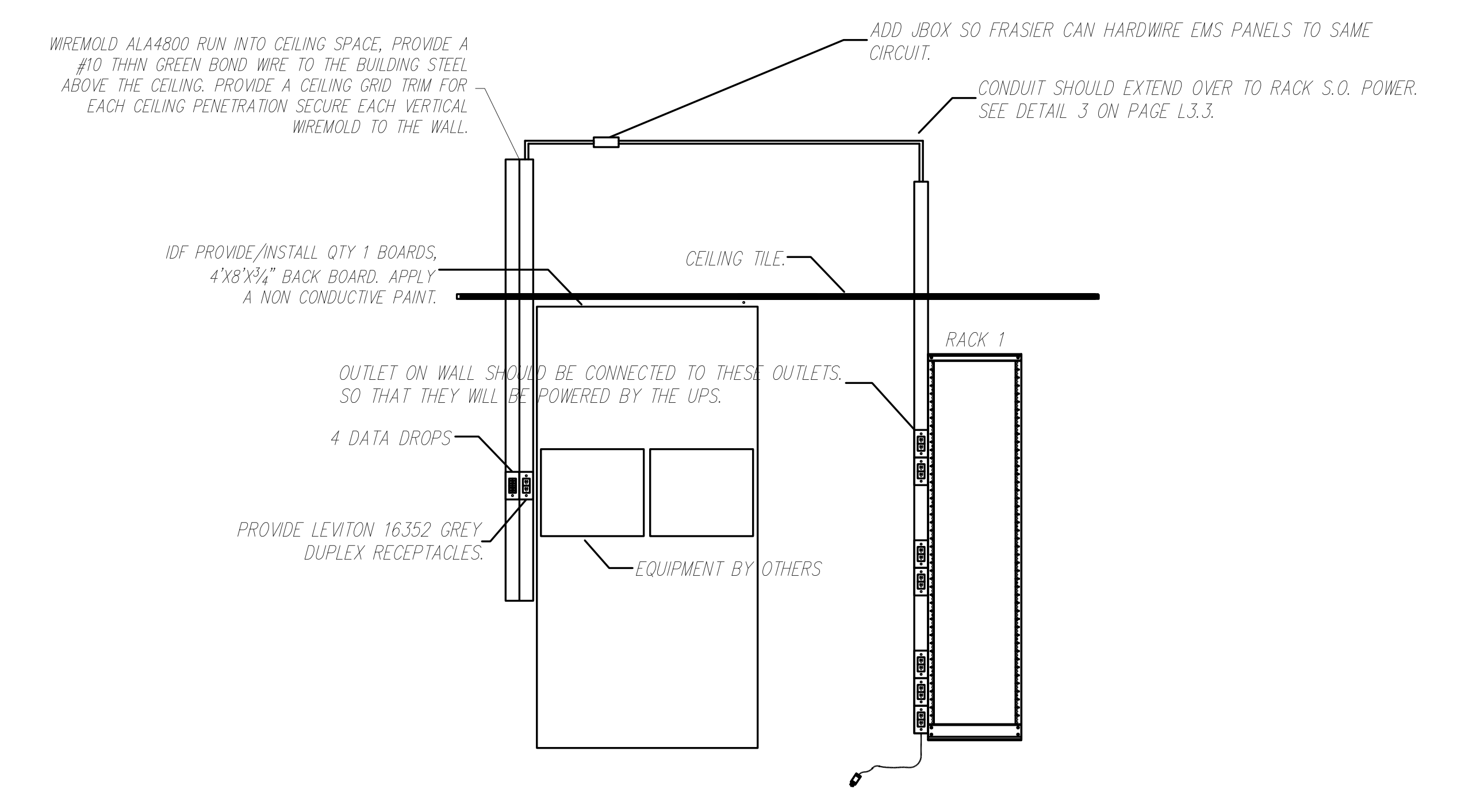
POWER OUTLET FACE PLATE



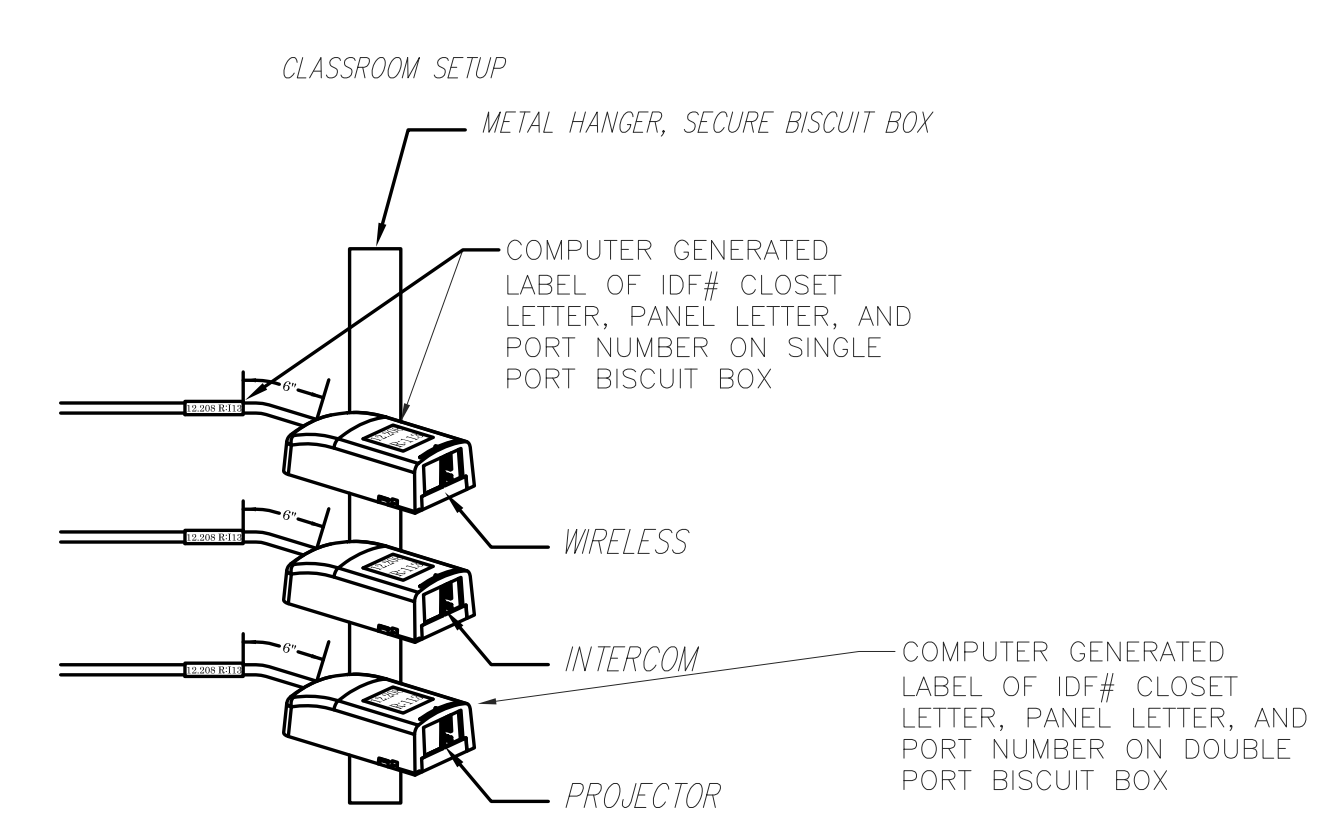
CAT 6 FACE PLATE

USE CLEAR LABELS WITH BLACK LETTERING FOR ALL FACE PLATE LABELING.

**4 FACE PLATE LABELING**  
 L2.1 NTS

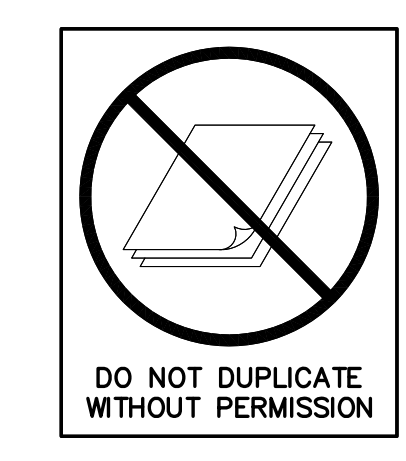


**6 IDF EMS BACK BOARD DETAIL**  
 L2.1 NTS



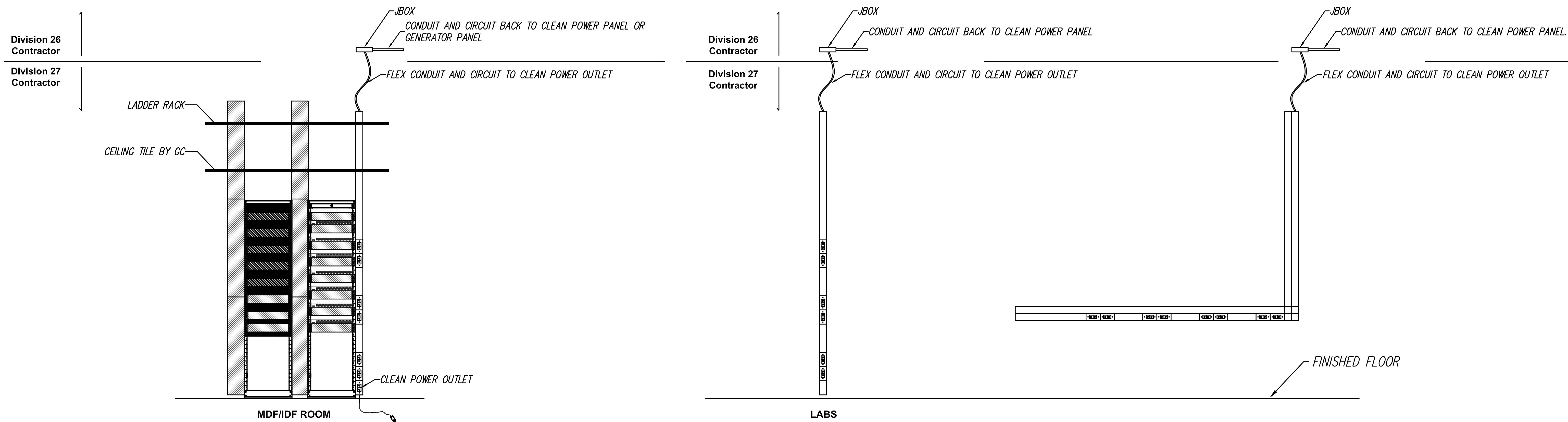
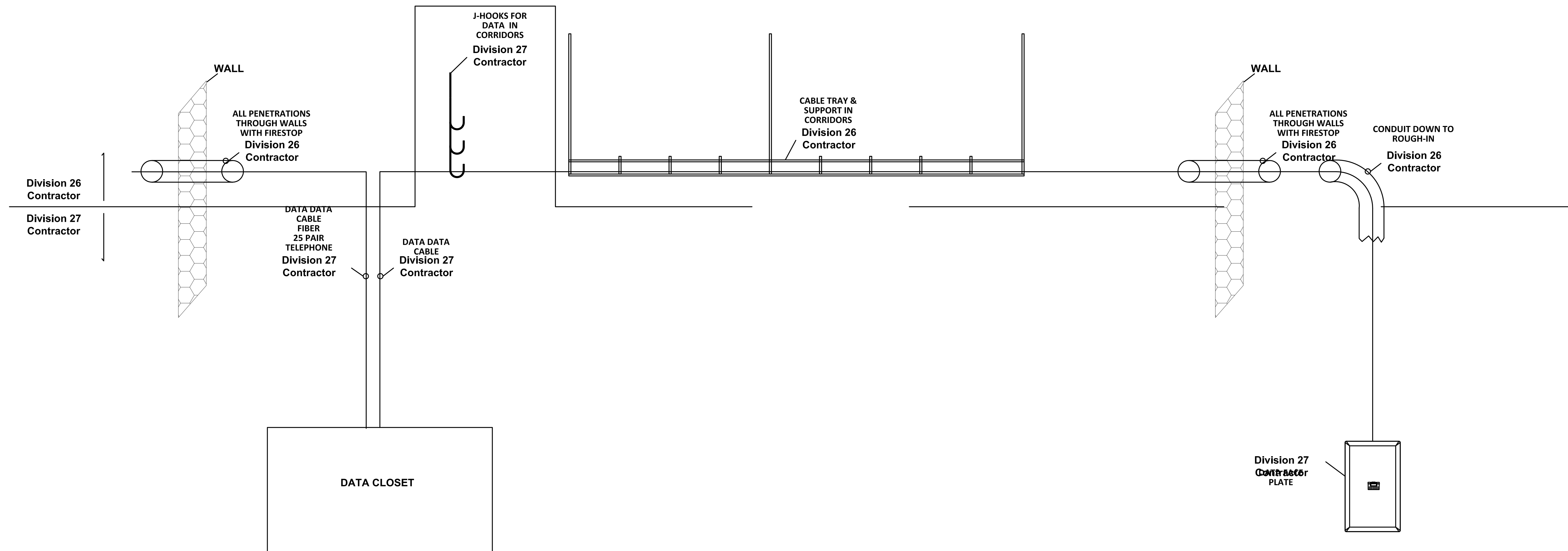
**8 BISCUIT BOX DETAIL**  
 L2.1 NTS

GENERAL NOTES:  
 1. DIV 21 TO PROVIDE ADDITIONAL PATCH CABLES FOR EXISTING CLOSETS IN MAY OF 2022.  
 a. QTY 1050 RED 1FT CAT6 PATCH CABLES  
 b. QTY 15 BLUE 1FT CAT6 PATCH CABLES  
 c. QTY 100 GREEN CAT6 PATCH CABLES

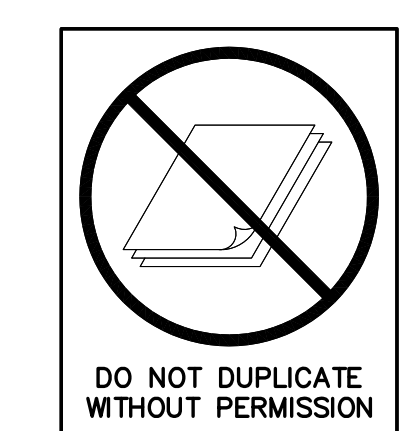


**L2.1**

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9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
12/8/2022	CONFORMED SET	



① DIV 26 & DIV 27 RESPONSIBILITIES  
L2.2 NTS



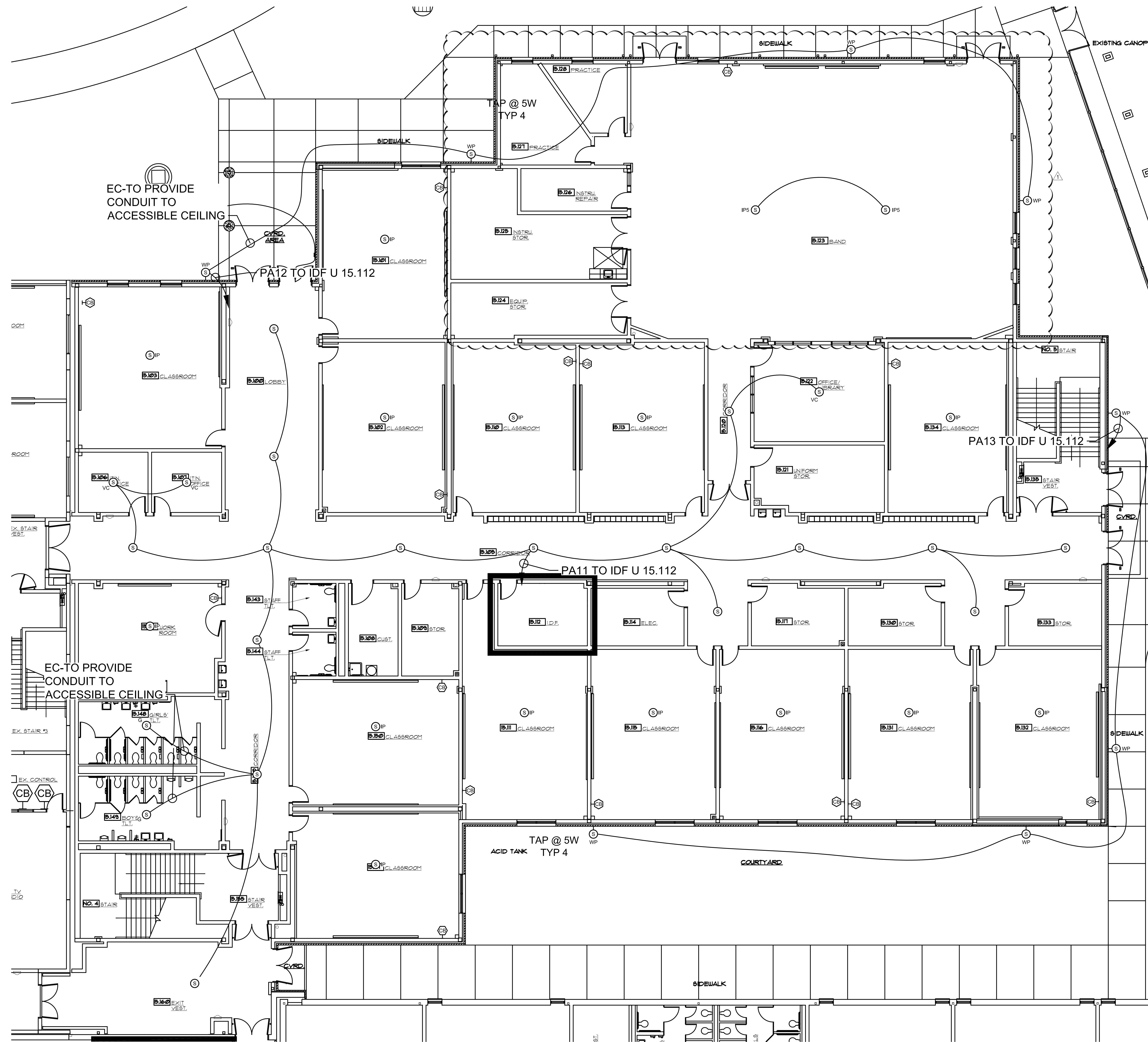
FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

**cunningham forehand matthews moore**  
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**L2.2**

DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
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11/30/2021	ISSUE FOR BID	
12/16/2021	ADDENDUM NO. 2	
12/29/2022	CONFORMED SET	



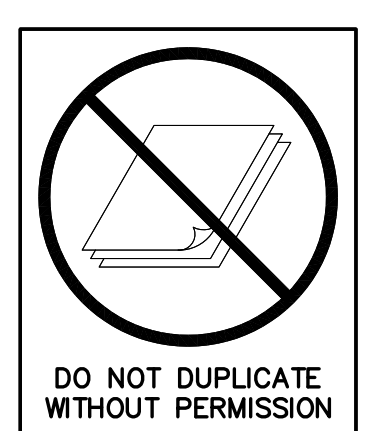
1 MAIN LEVEL ADDITION INTERCOM PLAN  
 L3.0 1/8"=1'-0"

FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
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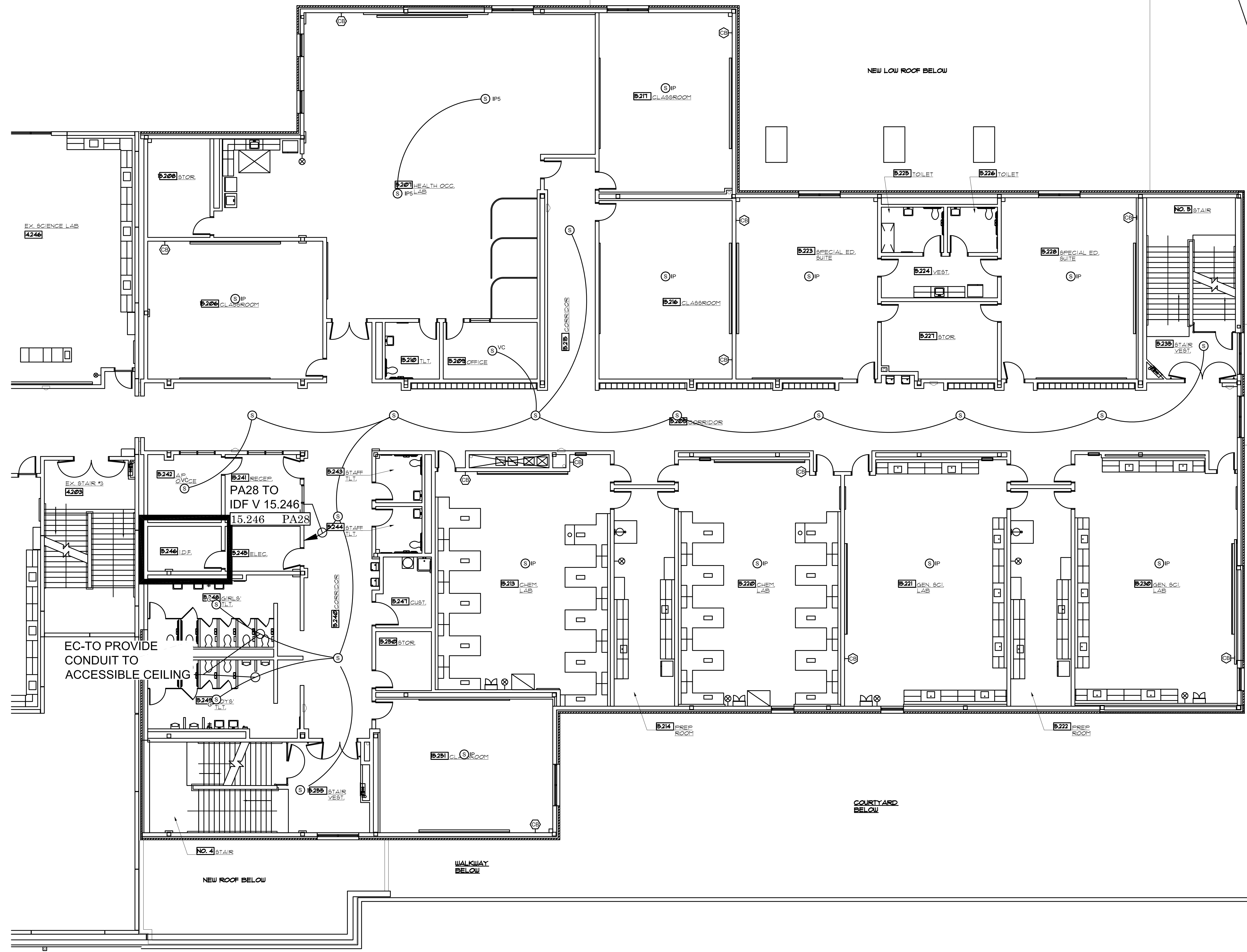
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 WITHOUT PERMISSION



**SPURLOCK & ASSOCIATES, INC.**  
 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
 P. 404.633.0245 | F. 404.633.1754  
 SA JOB NO. 2016

L3.0

DRAWING ISSUE RECORD		
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11/30/2021	ISSUE FOR BID	
12/8/2022	CONFORMED SET	



1 SECOND LEVEL ADDITION INTERCOM PLAN  
L3.1 1/8"=1'-0"

FACILITY CODE 667-4556

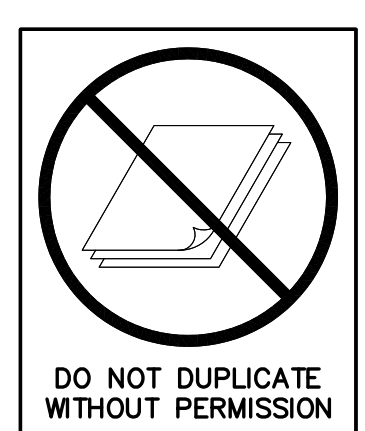
NORTH GUINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GUINNETT COUNTY BOARD OF EDUCATION  
GUINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
JOB NO.: 541-001-21  
DWG. BY: BDC  
CHK. BY: JRY

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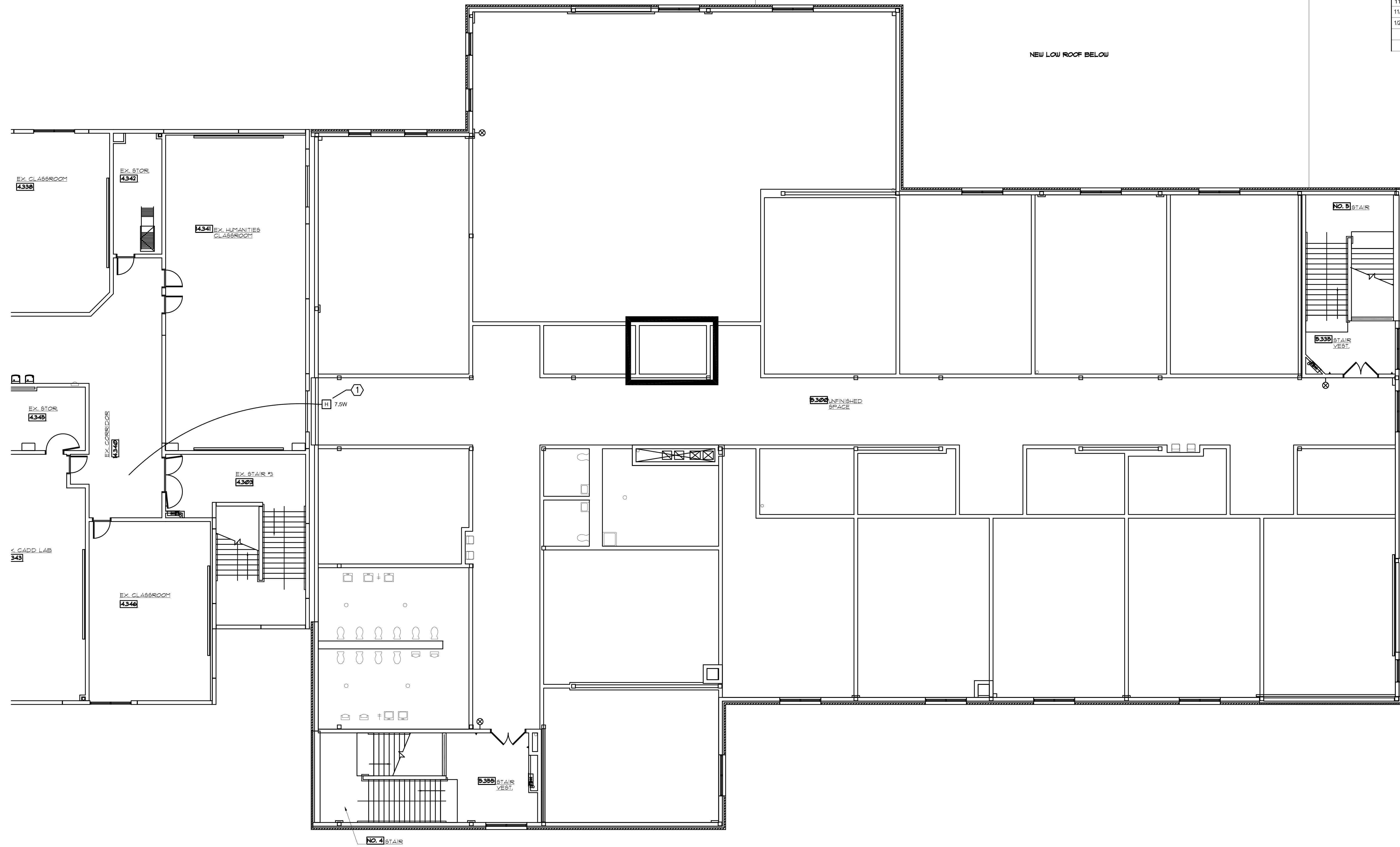
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SA JOB NO. 2016

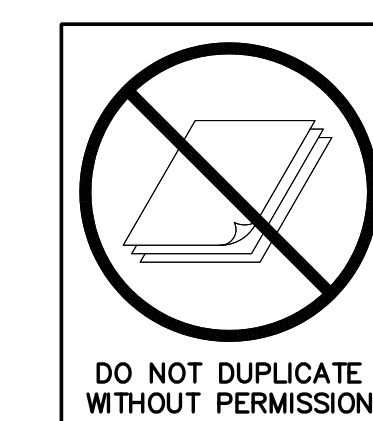
L3.1

DATE	REVISIONS	NO.
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11/1/2021	DOE Final	
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1 THIRD LEVEL ADDITION INTERCOM PLAN  
L3.2 1/8"=1'-0"

KEYNOTES:  
① CONNECT SPEAKER TO EXISTING CIRCUIT



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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
JOB NO.: SHL-D01-21  
DWG. BY: EDC  
CHK. BY: JRY

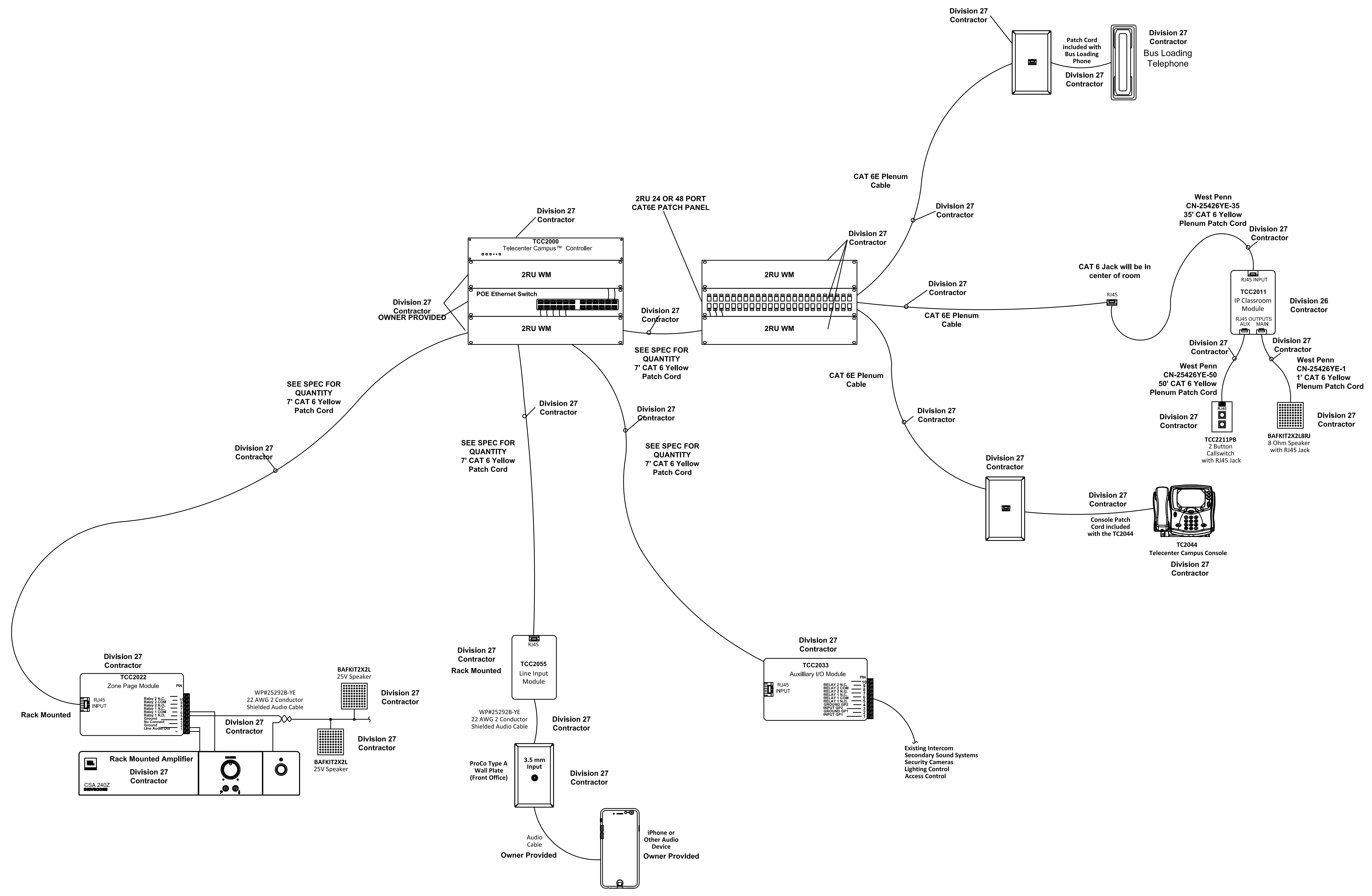
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L3.2



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1/28/2022	CONFORMED SET	



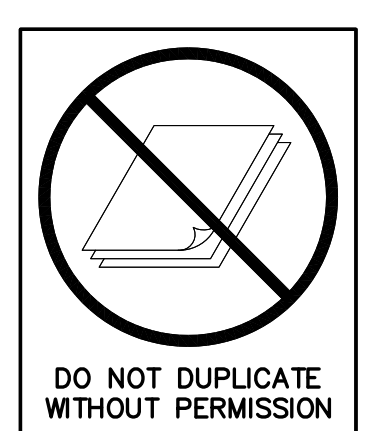
1 DIV 27 INTERCOM RESPONSIBILITIES  
L3.3 NTS

FACILITY CODE 66T-4556

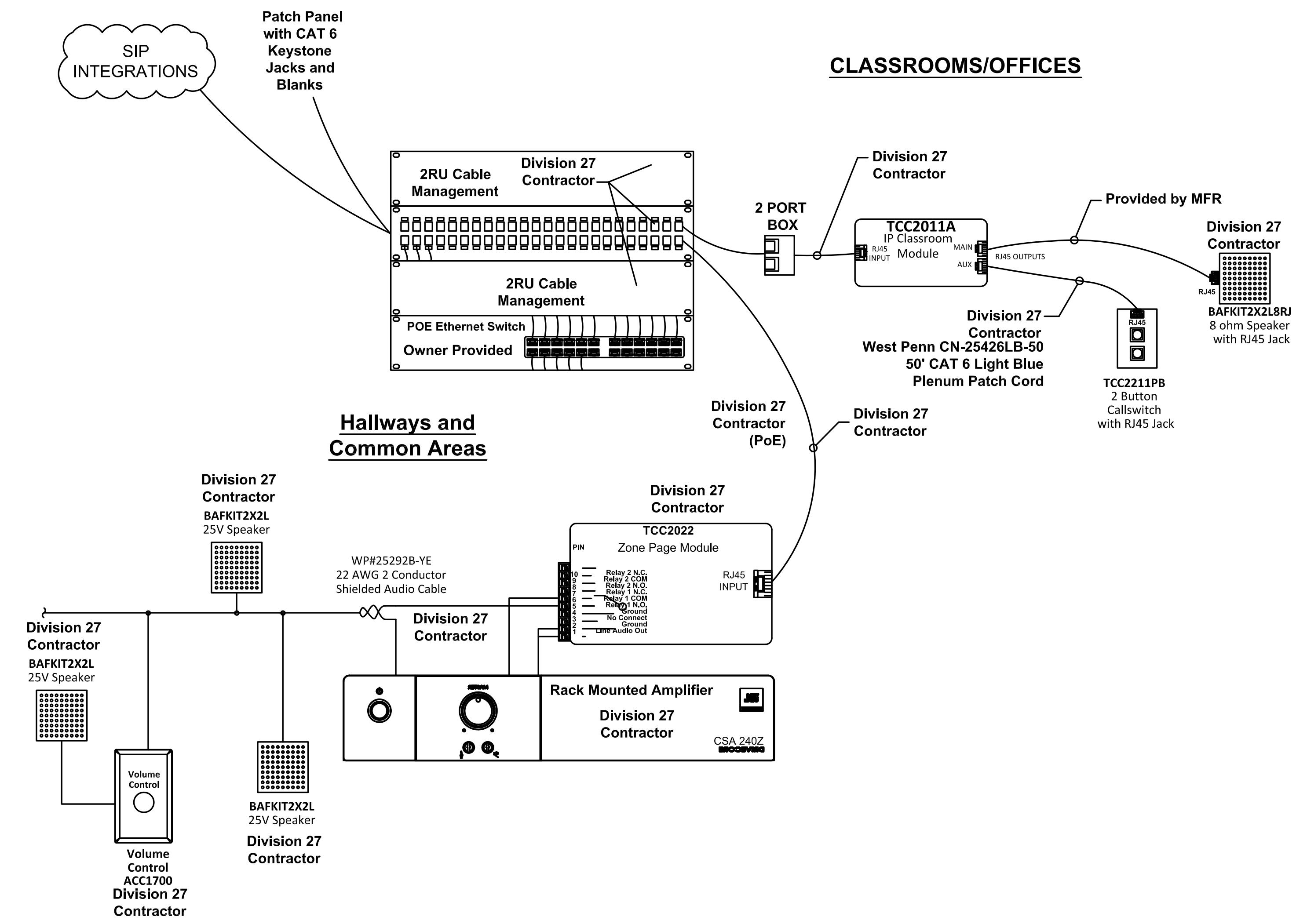
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
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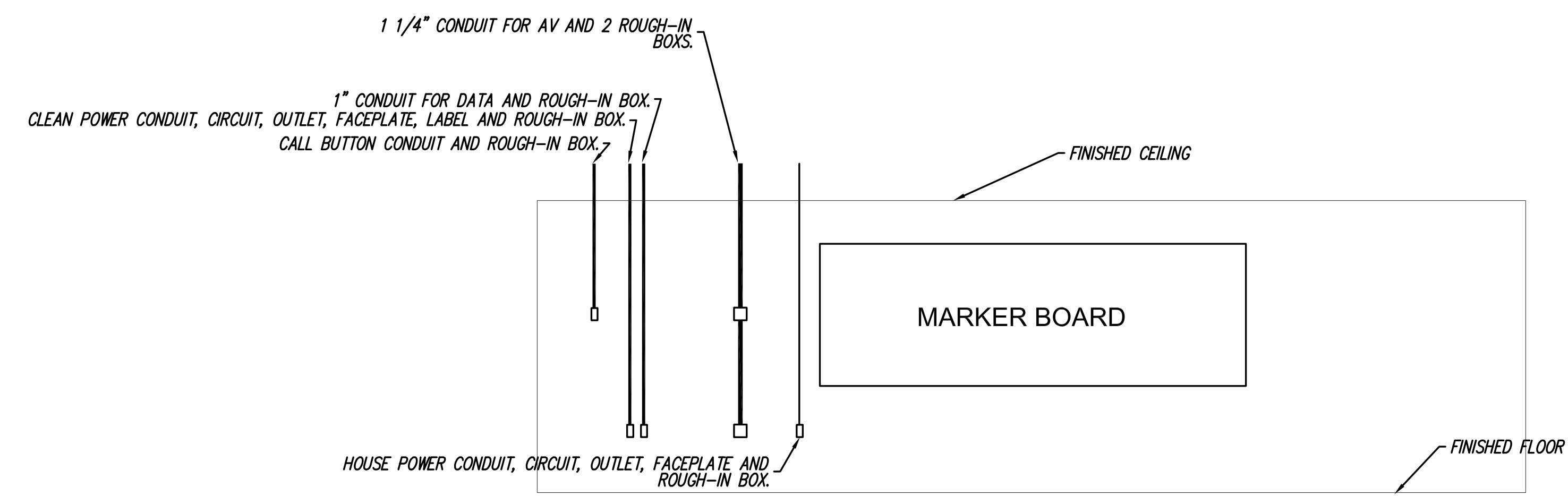
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1 DIV 27 INTERCOM RESPONSIBILITIES  
L3.4 NTS



2 DIV 26 & DIV 27 CLASSROOMS RESPONSIBILITIES  
L3.4 NTS

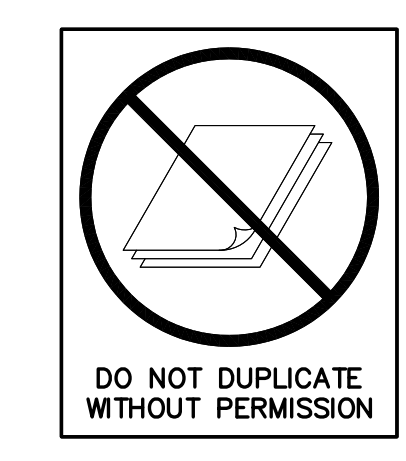
FACILITY CODE 66T-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
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DATE: MARCH 11, 2021  
JOB NO.: 541L-D01-21  
DRAWN BY: EDC  
CHECKED BY: JRY



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INTERCOM SYMBOL LEGEND							
SYMBOL	MANUF.	PART #	DESCRIPTION	BACKBOX	BOX MOUNTING HEIGHT	EXISTING BUILDING QTY	ADDITION NOT IN CONTRACT
	PROCO WIREMOLD WIREMOLD WIREMOLD	TYPE A V500 V504 V5744	PROGRAM INPUT JACK PLATE SURFACE RACEWAY STRAPS FOR SURFACE RACEWAY 1 GANG DEEP SURFACE MOUNT BOX	1 GANG DEEP SURFACE MOUNT BOX PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	1	
	LEVITON	84014	BLANK - 1 GANG	1 GANG	CONFIRM WITH OWNER	117	
	LEVITON	84033	BLANK - 3 GANG	3 GANG	CONFIRM WITH OWNER	1	
	RAULAND	603101	BREAKOUT MODULE	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	4	
			SWC TO DEMO CALL STATION AND WIREMOLD BOX AND RACEWAY			3	
	RAULAND	TCC2211PB	DUAL EMERGENCY AND CHECK-IN BUTTON	REUSE EXISTING 1 GANG	CONFIRM WITH OWNER	161	26
	RAULAND WIREMOLD WIREMOLD WIREMOLD	TCC2211PB V500 V504 V5744	DUAL EMERGENCY AND CHECK-IN BUTTON SURFACE RACEWAY STRAPS FOR SURFACE RACEWAY 1 GANG DEEP SURFACE MOUNT BOX	1 GANG DEEP SURFACE MOUNT BOX PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	24	
	QUAM RAULAND RAULAND	CIS2/8 ACC1119 TCC2011A	HIGH-SECURITY SPEAKER/CALL STATION BACKBOX - SURFACE - VANDALPROOF IP CLASSROOM MODULE	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	4	
	PANDUIT PANDUIT	NK688MYL NK2BXWH-A	CAT6 KEYSTONE JACK - YELLOW SURFACE MOUNT BOX - 2 PORT	SURFACE MOUNTED	CONFIRM WITH OWNER	166	26
	PANDUIT PANDUIT	NK688MYL NK2BXWH-A	CAT6 KEYSTONE JACK - YELLOW SURFACE MOUNT BOX - 2 PORT	SURFACE MOUNTED	CONFIRM WITH OWNER	23	
	PANDUIT CABLE2GO WIREMOLD WIREMOLD WIREMOLD	NK688MYL 37093 V500 V504 V5744	CAT6 KEYSTONE JACK - YELLOW SINGLE GANG WALL PLATE - STAINLESS STEEL - 1 PORT SURFACE RACEWAY STRAPS FOR SURFACE RACEWAY 1 GANG DEEP SURFACE MOUNT BOX	1 GANG DEEP SURFACE MOUNT BOX PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	1 NEW (1 EXISTING)	
	RAULAND	TCC2045	IP ADMINISTRATIVE CONSOLE	DESKTOP MOUNTED	CONFIRM WITH OWNER	1 NEW (1 EXISTING)	
	RAULAND LOWELL LOWELL	US0188 (EX)P68X SG-8VP	SPEAKER - 8" 25/70V MTAP XFMR 50Z EXISTING BACKBOX - FLUSH GRILLE - SQUARE - WHITE - VANDALPROOF	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	15	
	LOWELL	C20-5211	SWC TO REMOVE EXISTING SPEAKER AND GRILLE AND ADD LOWELL BLANK COVER. OWNER TO PAINT.			3	
	LOWELL LOWELL LOWELL	8C10MRB-T72 (EX)P68X C20-4886	SPEAKER - WEATHERPROOF EXISTING BACKBOX - FLUSH GRILLE - ROUND - STAINLESS STEEL FACEPLATE	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	17	8
	RAULAND RAULAND	ACC1406 (EX)ACC1110	SPEAKER - 8" 25V WITH BAFFLE EXISTING BACKBOX - FLUSH	PROVIDED AND INSTALLED BY SWC	CEILING MOUNTED	24	4
	RAULAND RAULAND	3603 A30G	SPEAKER - HORN STRAIN RELIEF ADAPTER	1 GANG	CONFIRM WITH OWNER	4	1
	RAULAND RAULAND LOWELL	3603 A30G C20-5211	SPEAKER - HORN STRAIN RELIEF ADAPTER BLANK PLATE	MOUNTED OVER EXISTING BACKBOX		1	
	RAULAND	BAFKIT2X2L	SPEAKER - LAYIN	PROVIDED AND INSTALLED BY SWC	CEILING MOUNTED	257	
			SWC TO REMOVE EXISTING CEILING SPEAKER AND REPLACE WITH NEW CEILING TILE.			109	
	RAULAND RAULAND	BAFKIT2X2L8RJ TCC2011A	SPEAKER - LAYIN WITH RJ45 CONNECTOR IP CLASSROOM MODULE	PROVIDED AND INSTALLED BY SWC	CEILING MOUNTED	145	
	QUAM RAULAND	SOLUTION5 TCC2011A	SPEAKER - LAYIN IP CLASSROOM MODULE(1 FOR EACH PAIR)	PROVIDED AND INSTALLED BY SWC	CEILING MOUNTED	42 (21 PAIRS)	4 (2 PAIR)
	RAULAND	BAFKIT2X2LVC	SPEAKER - LAYIN WITH VOLUME CONTROL	PROVIDED AND INSTALLED BY SWC	CEILING MOUNTED	57	5
	RAULAND RAULAND RAULAND	US0188 ACC1112 ACC1003	SPEAKER - 8" 25/70V MTAP XFMR 50Z BACKBOX - SURFACE GRILLE - SQUARE - WHITE	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	7	
	RAULAND RAULAND RAULAND	US0188 ACC1112 ACC1003	SPEAKER - 8" 25/70V MTAP XFMR 50Z BACKBOX - SURFACE GRILLE - SQUARE - WHITE	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	8	
			SWC TO REMOVE EXISTING SPEAKER AND MOUNTING HARDWARE. OWNER TO PATCH AND PAINT.			1	
	RAULAND RAULAND	ACCWB8RJ TCC2011A	SPEAKER - 8" RJ45 WITH SURFACE BACKBOX AND GRILLE IP CLASSROOM MODULE (1 PER PAIR)	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	20 (INCLUDES 1 PAIR)	
	LOWELL LOWELL LOWELL	8C10MRB-T72 C30-4887 C20-4886	SPEAKER - WEATHERPROOF BACKBOX - STAINLESS SURFACE STAINLESS GRILLE - SQUARE - VANDALPROOF	PROVIDED AND INSTALLED BY SWC	CONFIRM WITH OWNER	4	
			FACILITY PROVIDED HEADEND LOCATION			17	

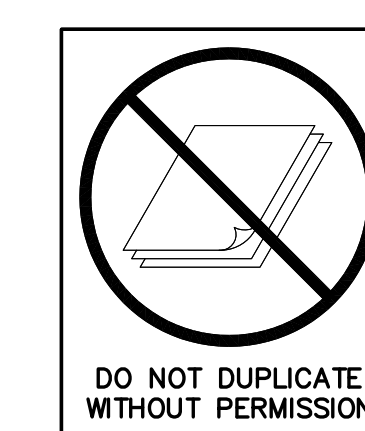
TOTAL HEADEND EQUIPMENT LIST			
MANUF.	PART #	DESCRIPTION	TOTAL QTY
MIDDLE ATL	RC2	2RU CLAMPING SHELF	1
RAULAND	TCC2000	CONTROLLER	EXISTING
RAULAND	TCC2022	ZONE PAGE MODULE	28 (DOES NOT INCLUDE ADDITION)
RAULAND	TCC2033	AUX I/O MODULE	2
RAULAND	TCC2055	PROGRAM LINE INPUT	1
RAULAND	TCC2077	MIC INPUT MODULE	1
RAULAND	TCC2099	UNIVERSAL RACK MOUNT	17
SIEMON	S66M-150/S89B	66 BLOCK/BACKET	17

CABLE LEGEND			
SYMBOL	DESCRIPTION		
A	MOHAWK M57195B	CAT6E+, ADVANCENET PLENUM - YELLOW	
B	WPW 25292BYE	PLENUM 2 CONDUCTOR 20 AWG SHIELDED	
C	LEVITON 62460-1Y	CAT6 PATCH CORD 1 FT NON-PLENUM - YELLOW	
D	LEVITON 62460-3Y	CAT6 PATCH CORD 3 FT NON-PLENUM - YELLOW	
E	LYNN ELEC. ECAT6PL-10-YE	CAT6 PATCH CORD 10 FT PLENUM - YELLOW	
F	LYNN ELEC. ECAT6PL-35-YE	CAT6 PATCH CORD 35 FT PLENUM - YELLOW	
G	LYNN ELEC. ECAT6PL-50-YE	CAT6 PATCH CORD 50 FT PLENUM - YELLOW	
H	GENERAL CABLE 7136100	8 COND 24 AWG UTP OUTDOOR RATED - BLACK	

FACILITY CODE 66T-4556

NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
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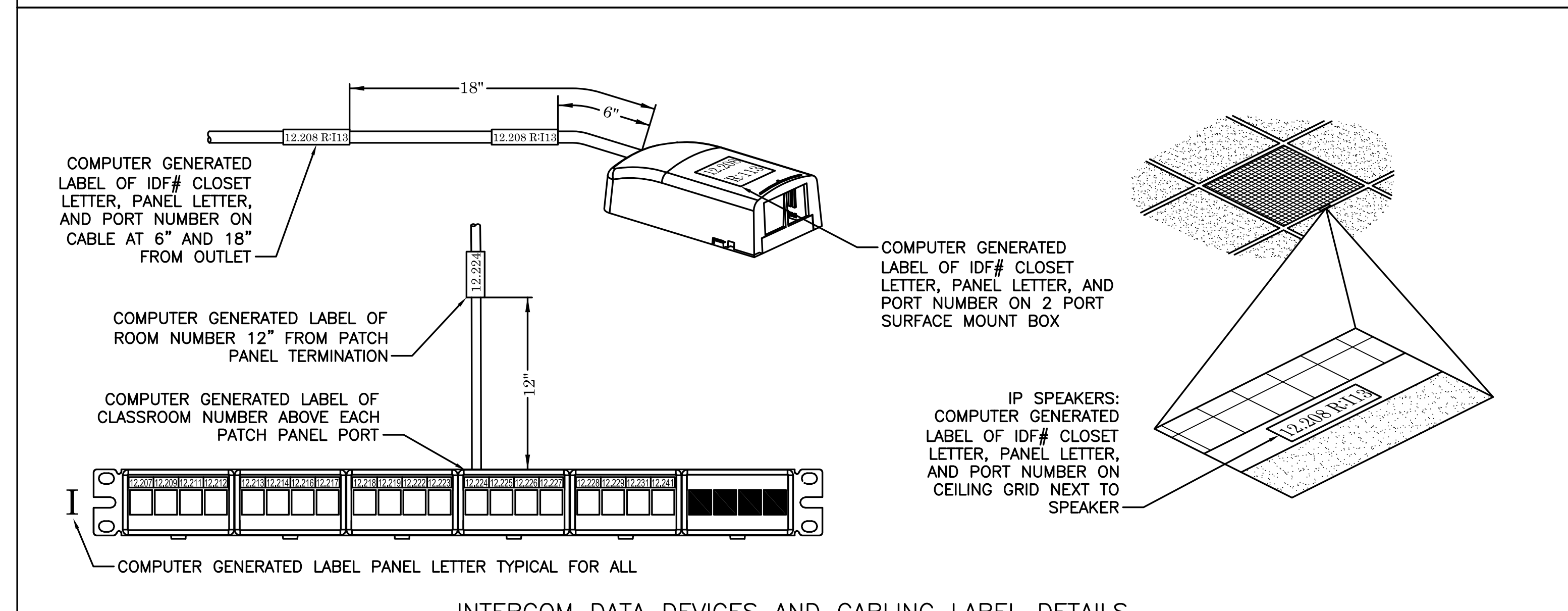


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11/1/2021	DOE Final	
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1/28/2022	CONFORMED SET	

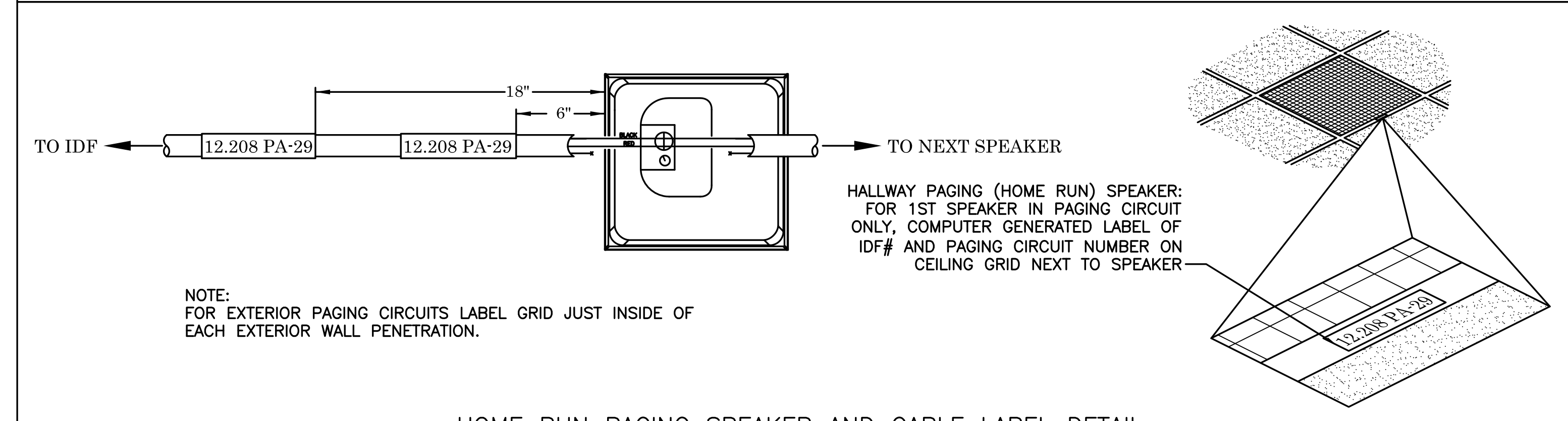
FACILITY CODE 66T-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
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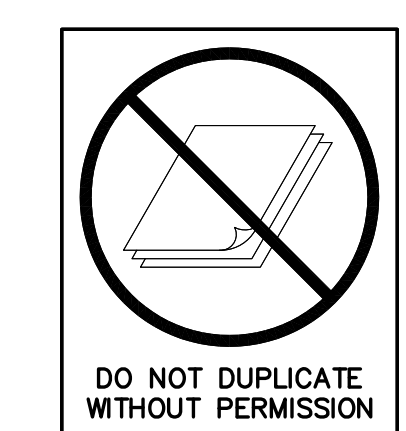
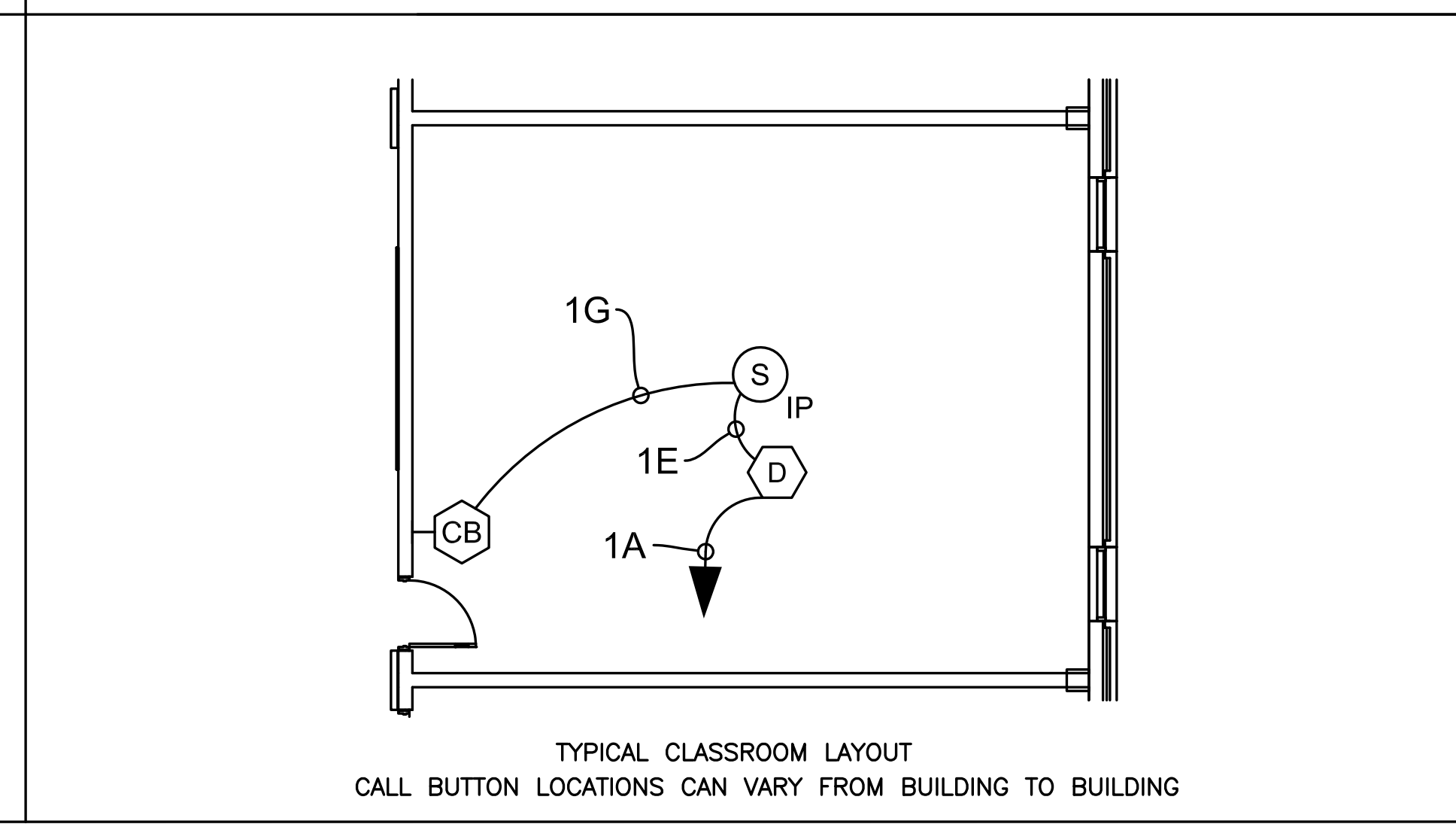
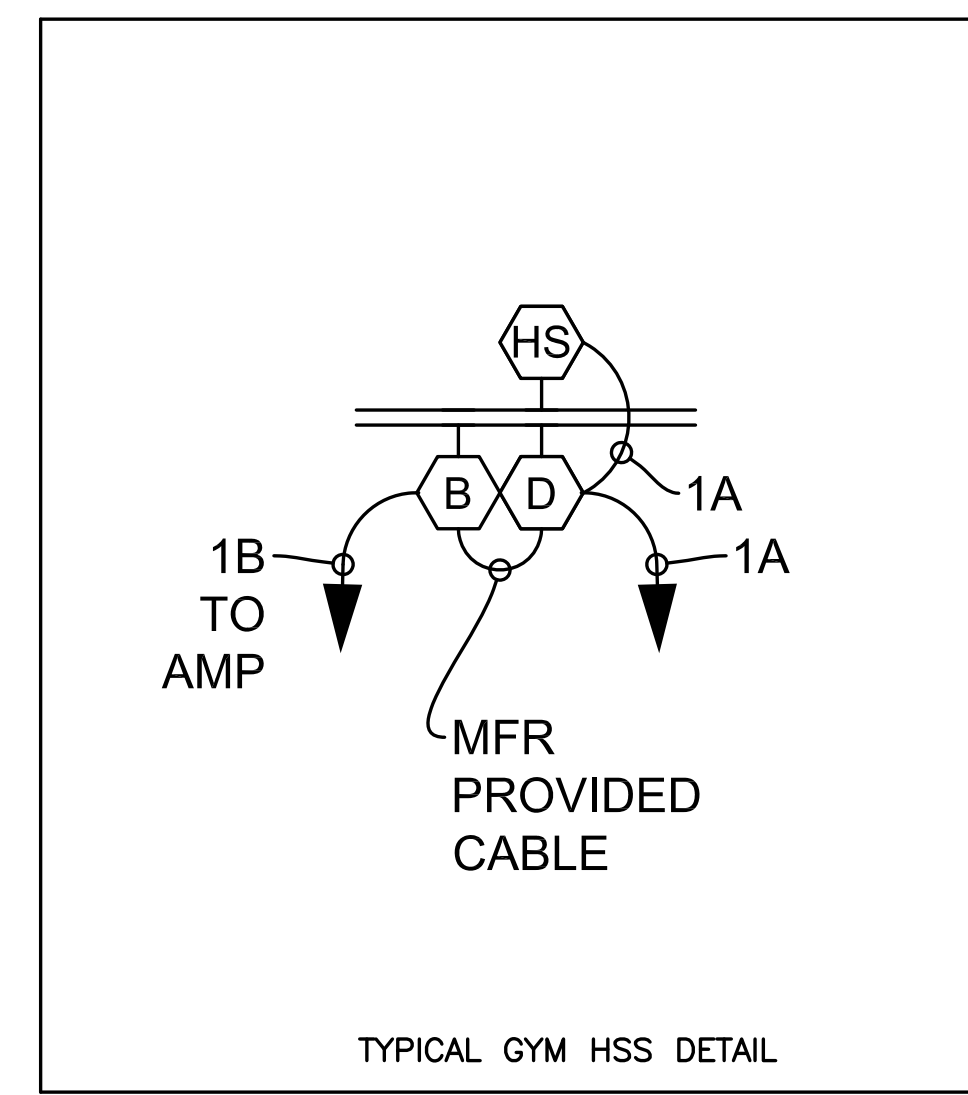
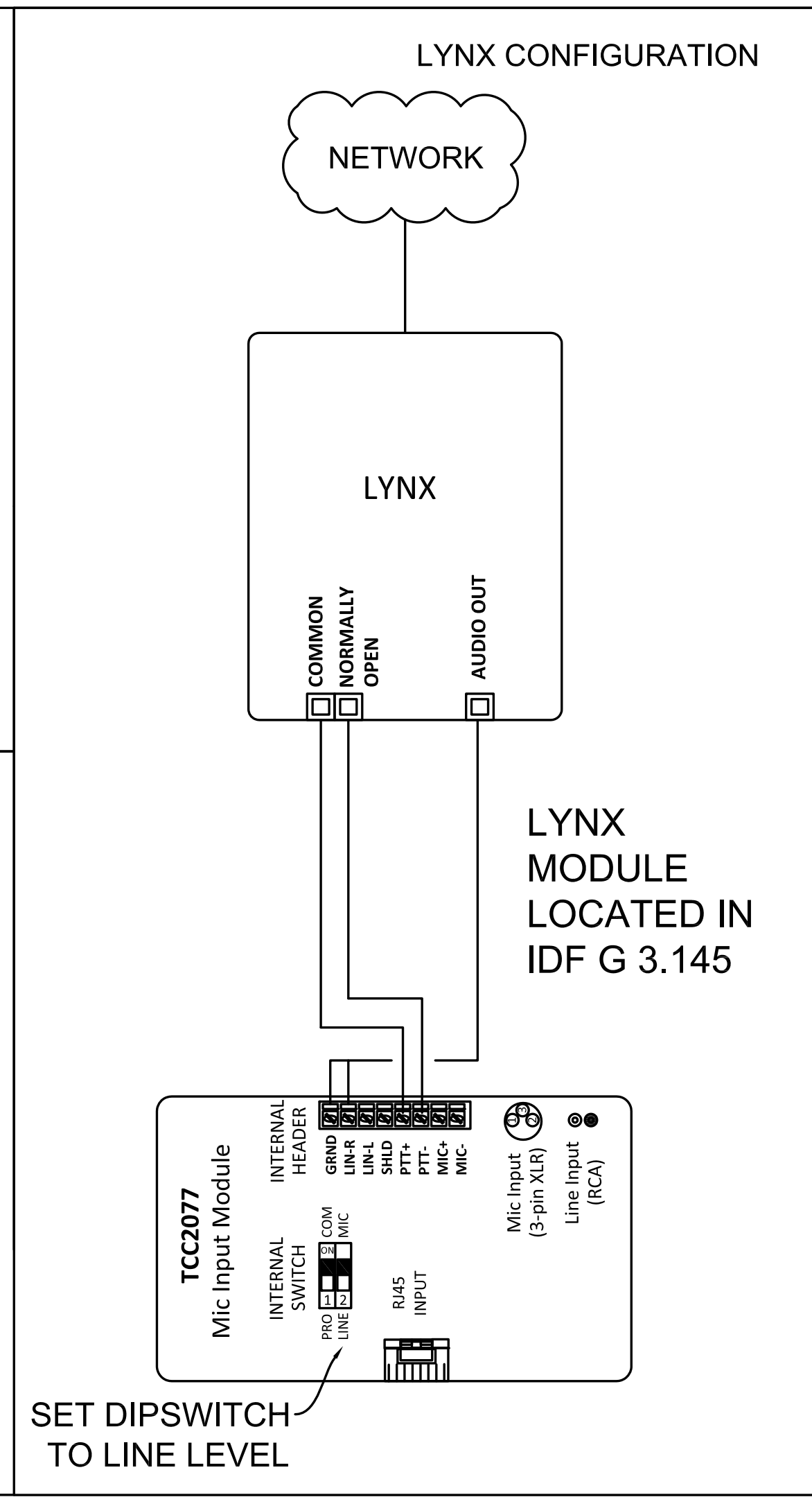
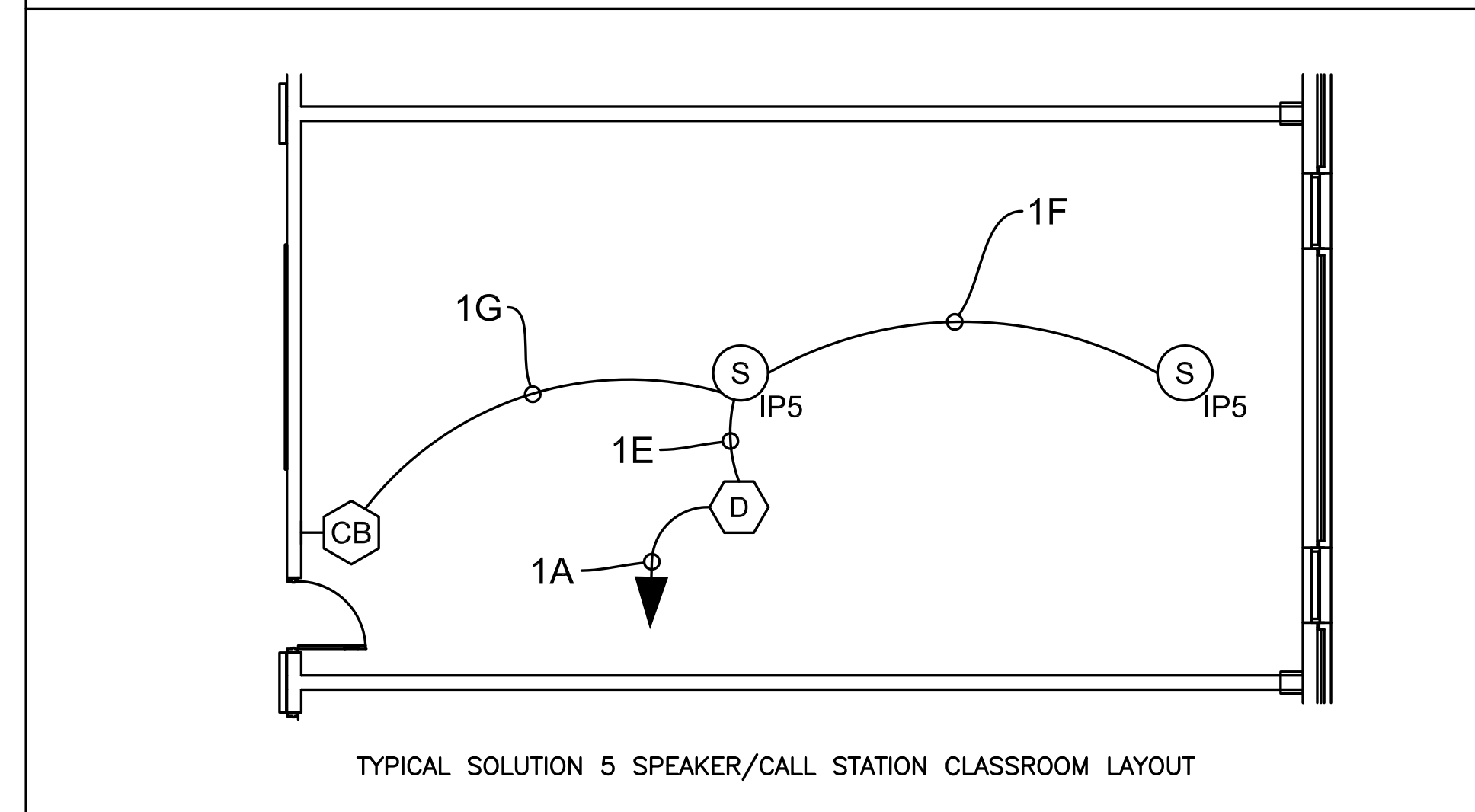
DATE: MARCH 1, 2021  
 JOB NO.: SHL-D01-21  
 DWG. BY: BDC  
 CK. BY: JRY



INTERCOM DATA DEVICES AND CABLING LABEL DETAILS



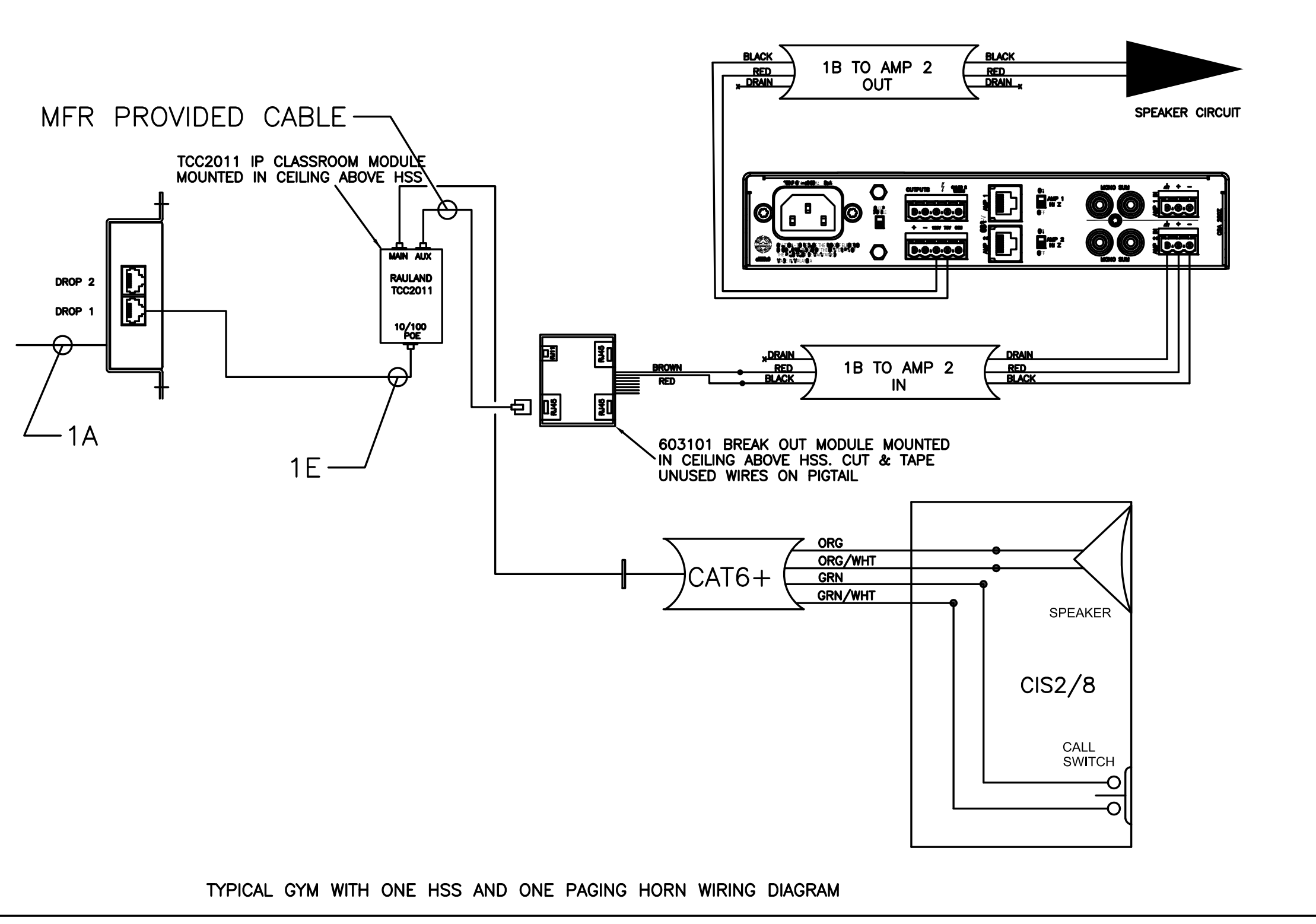
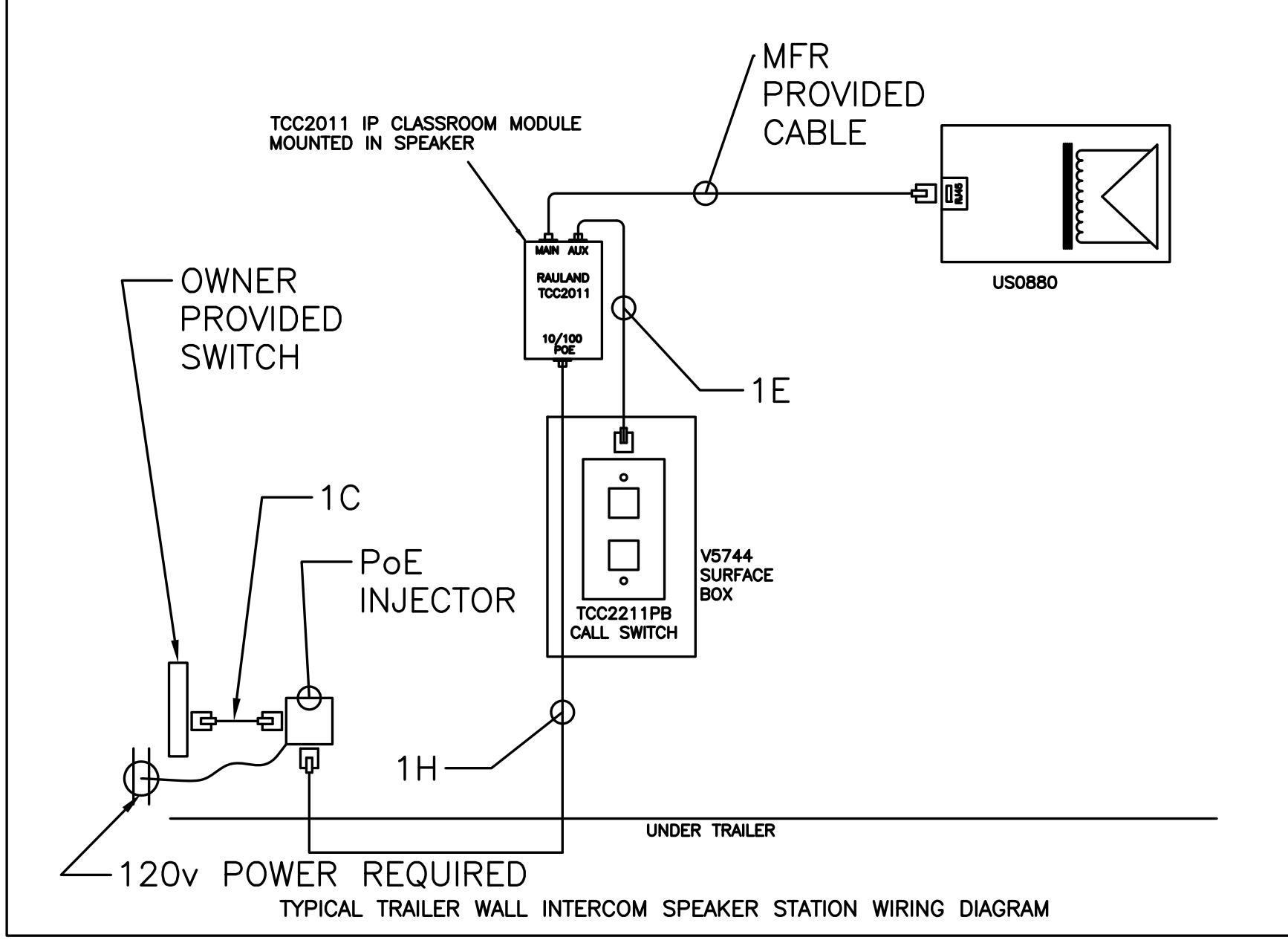
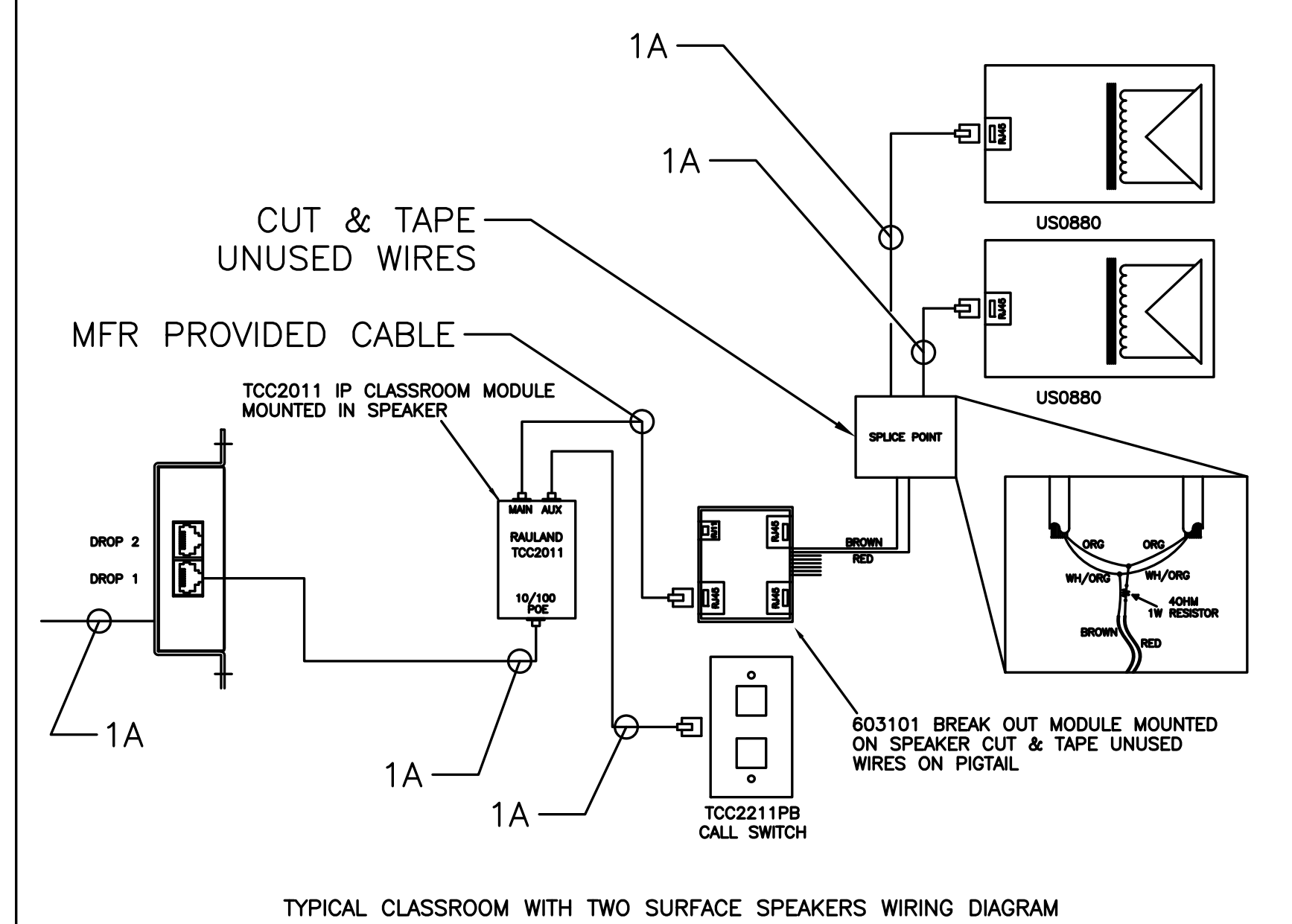
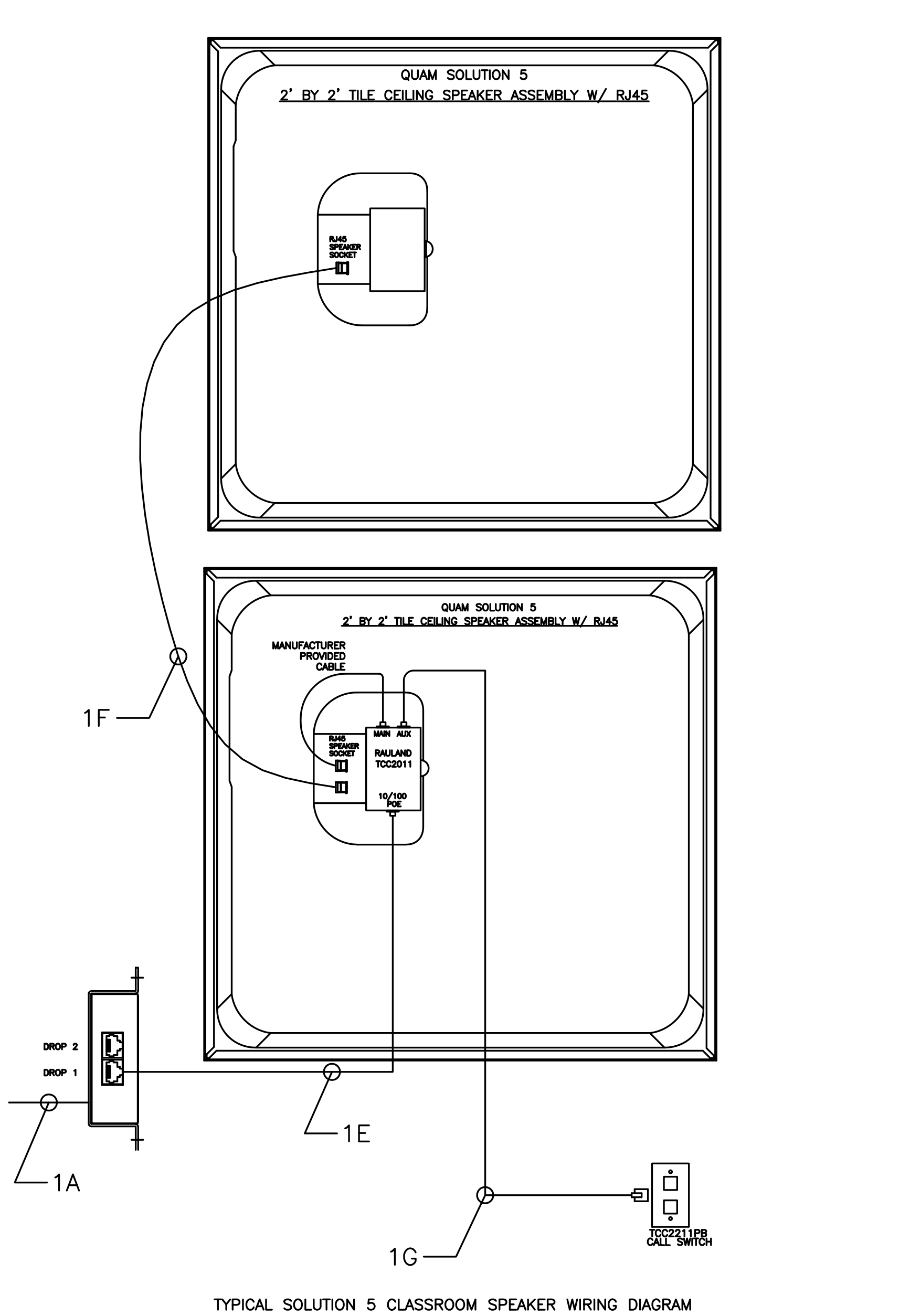
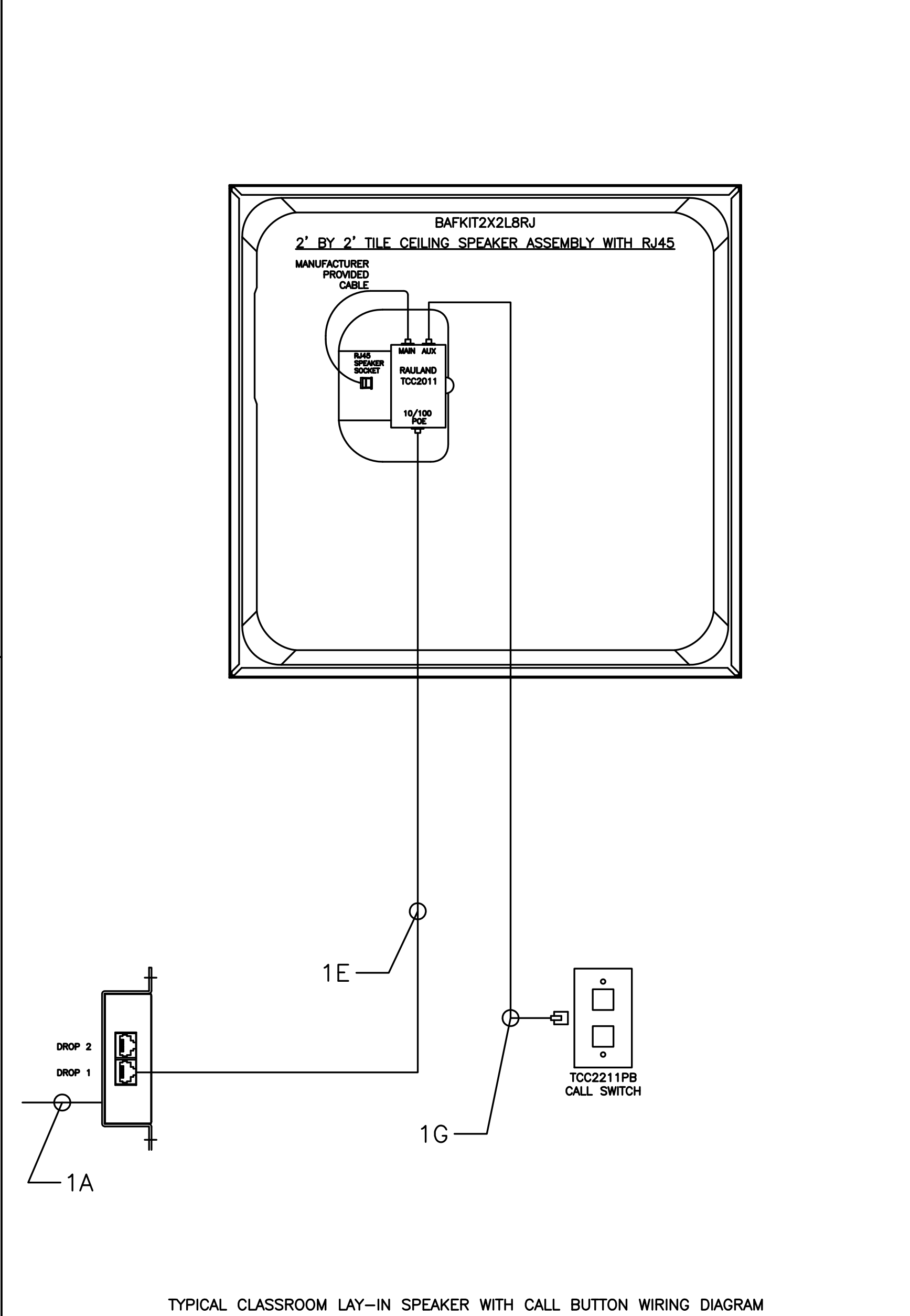
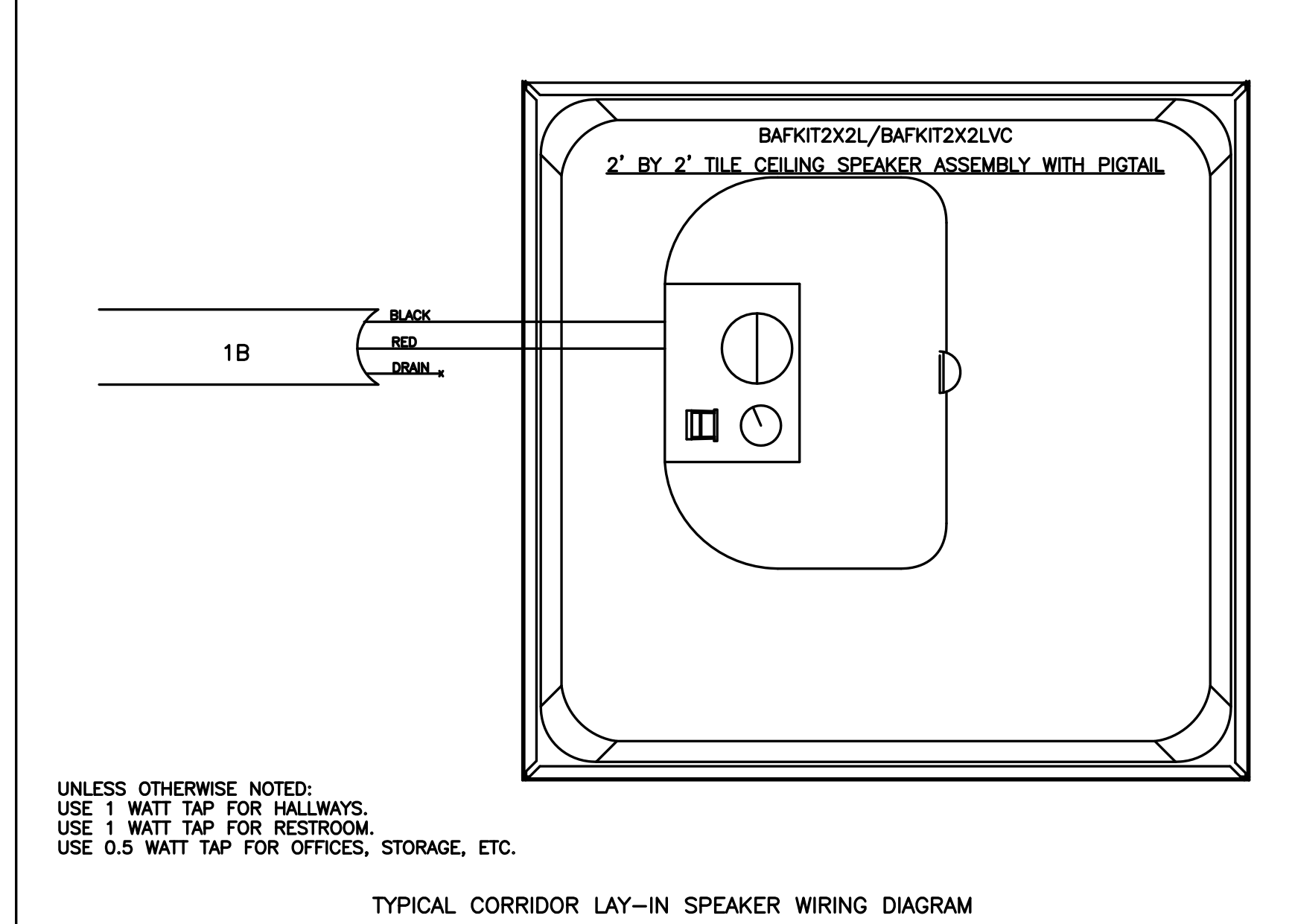
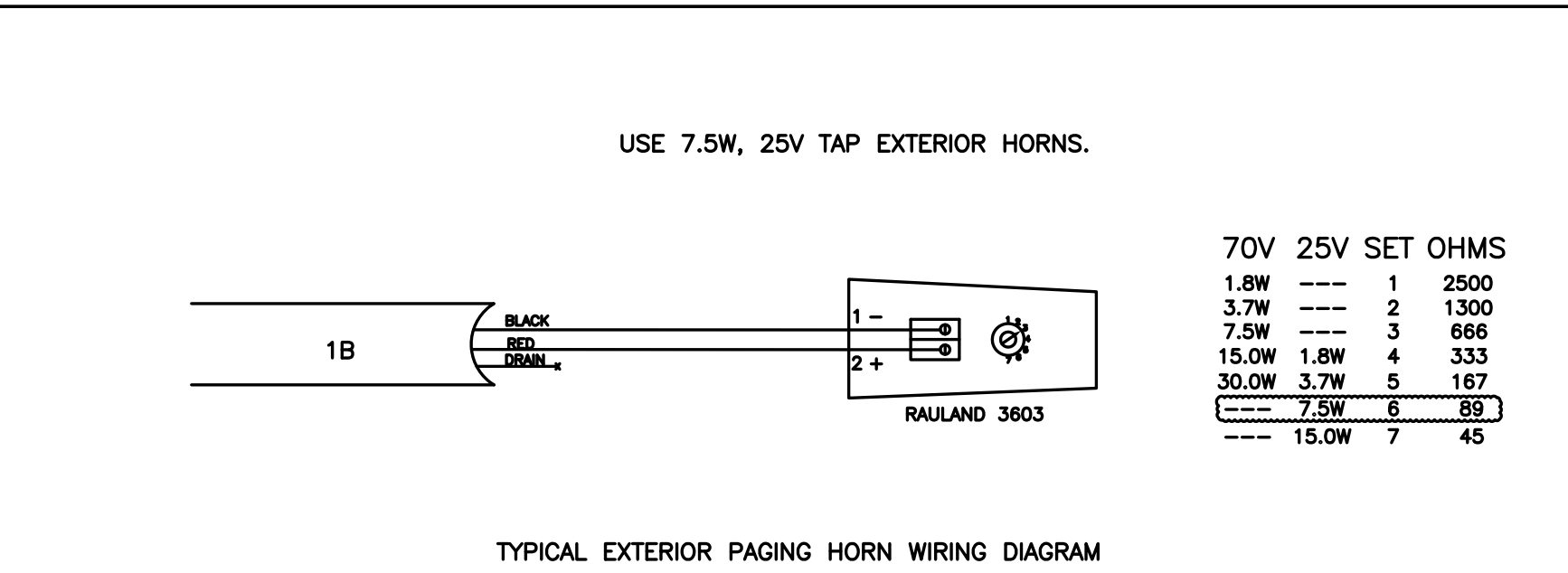
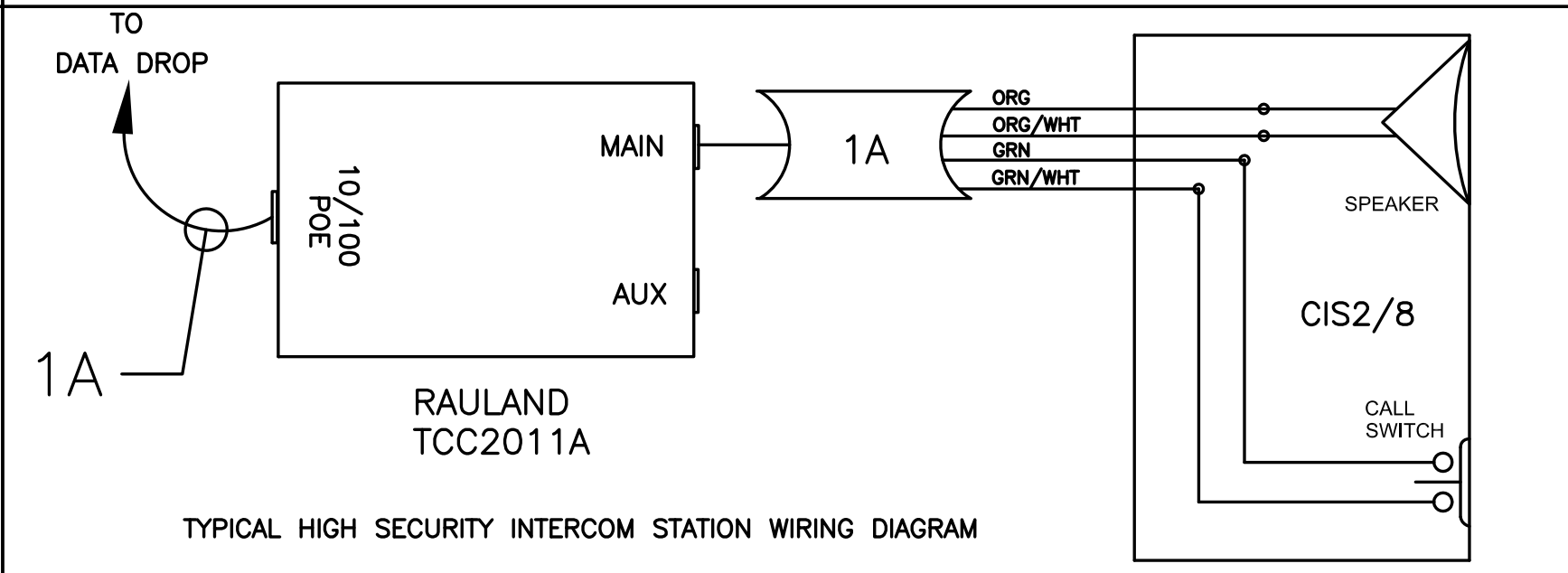
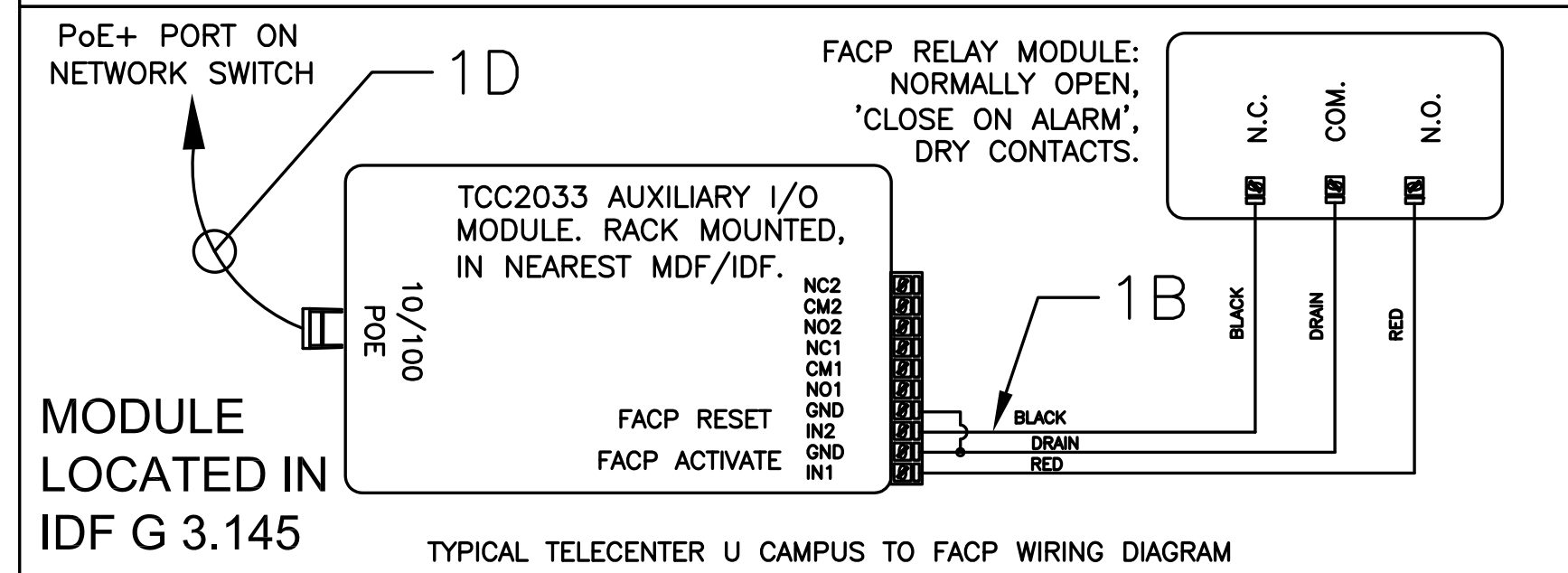
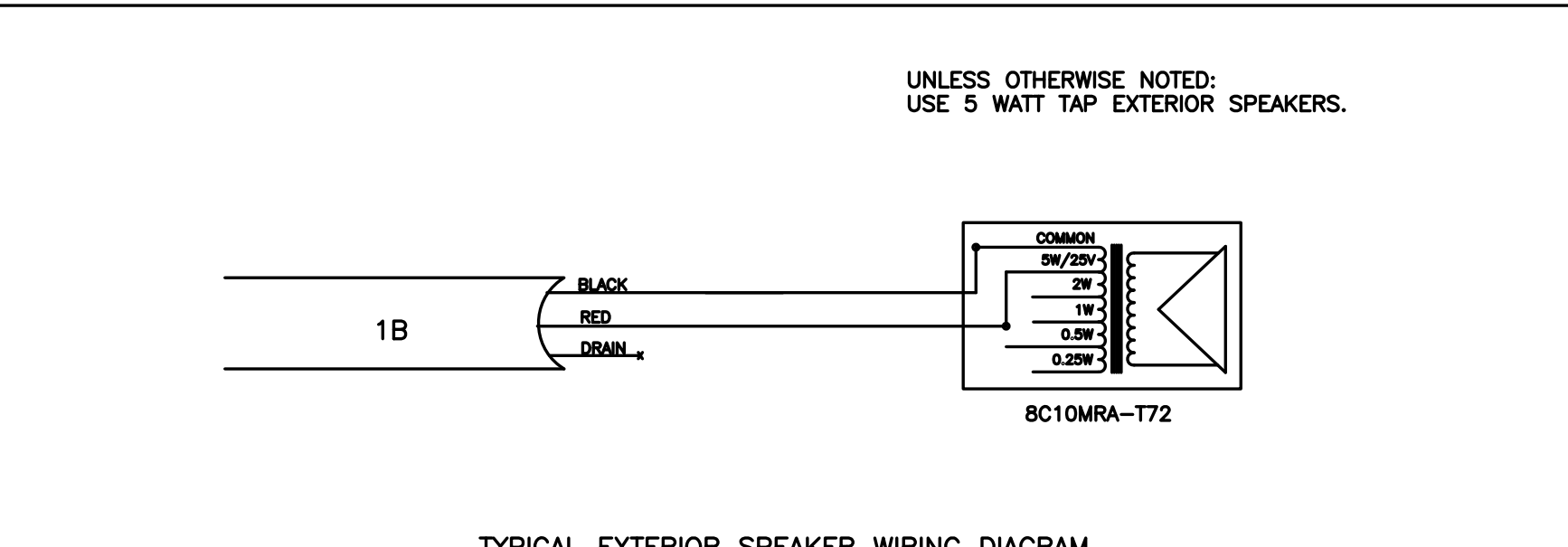
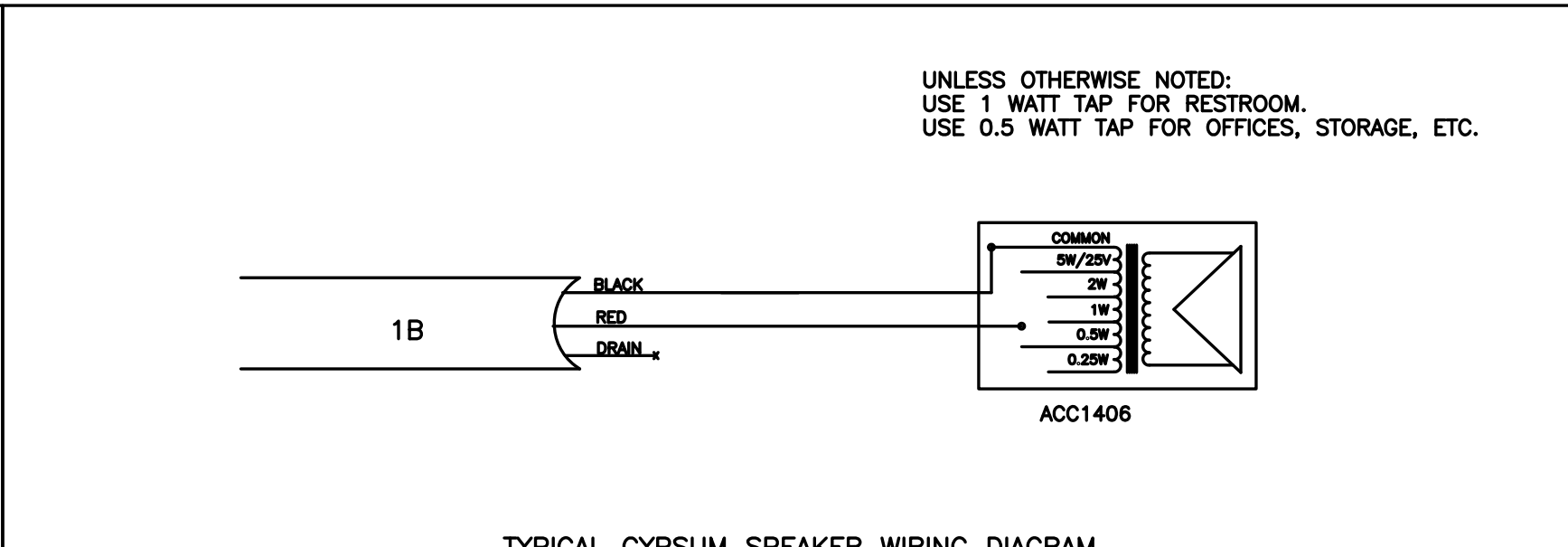
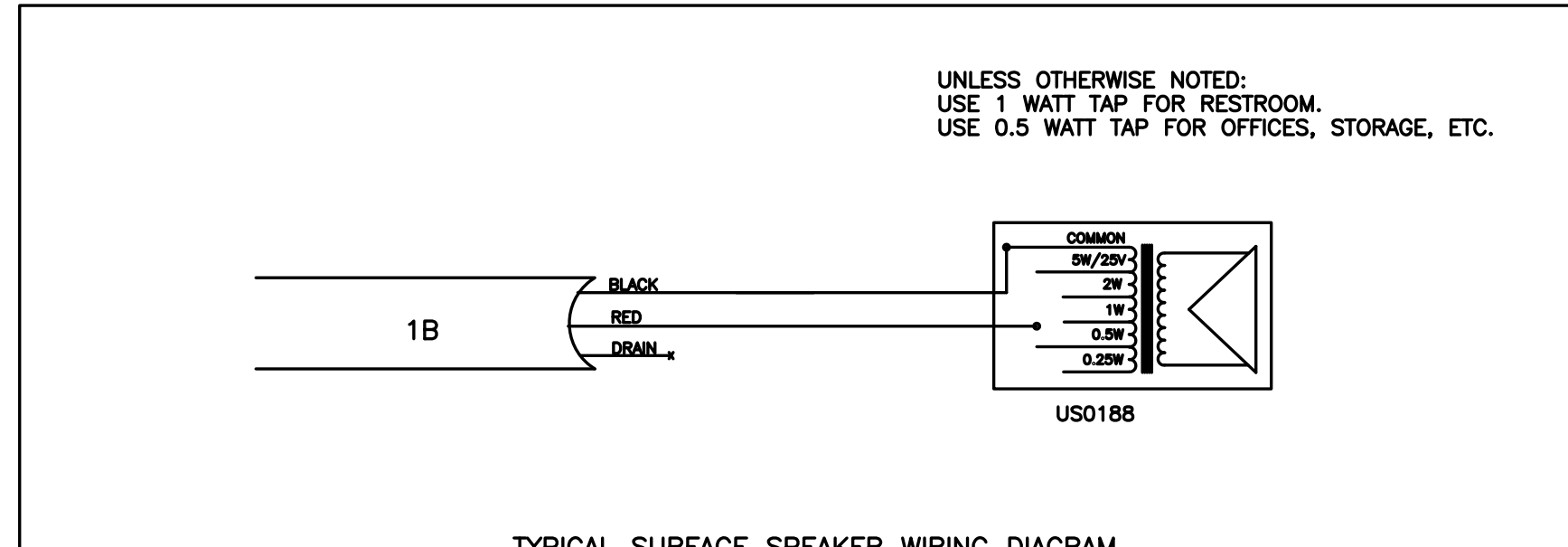
HOME RUN PAGING SPEAKER AND CABLE LABEL DETAIL



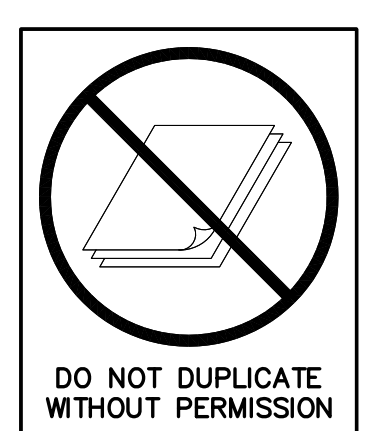
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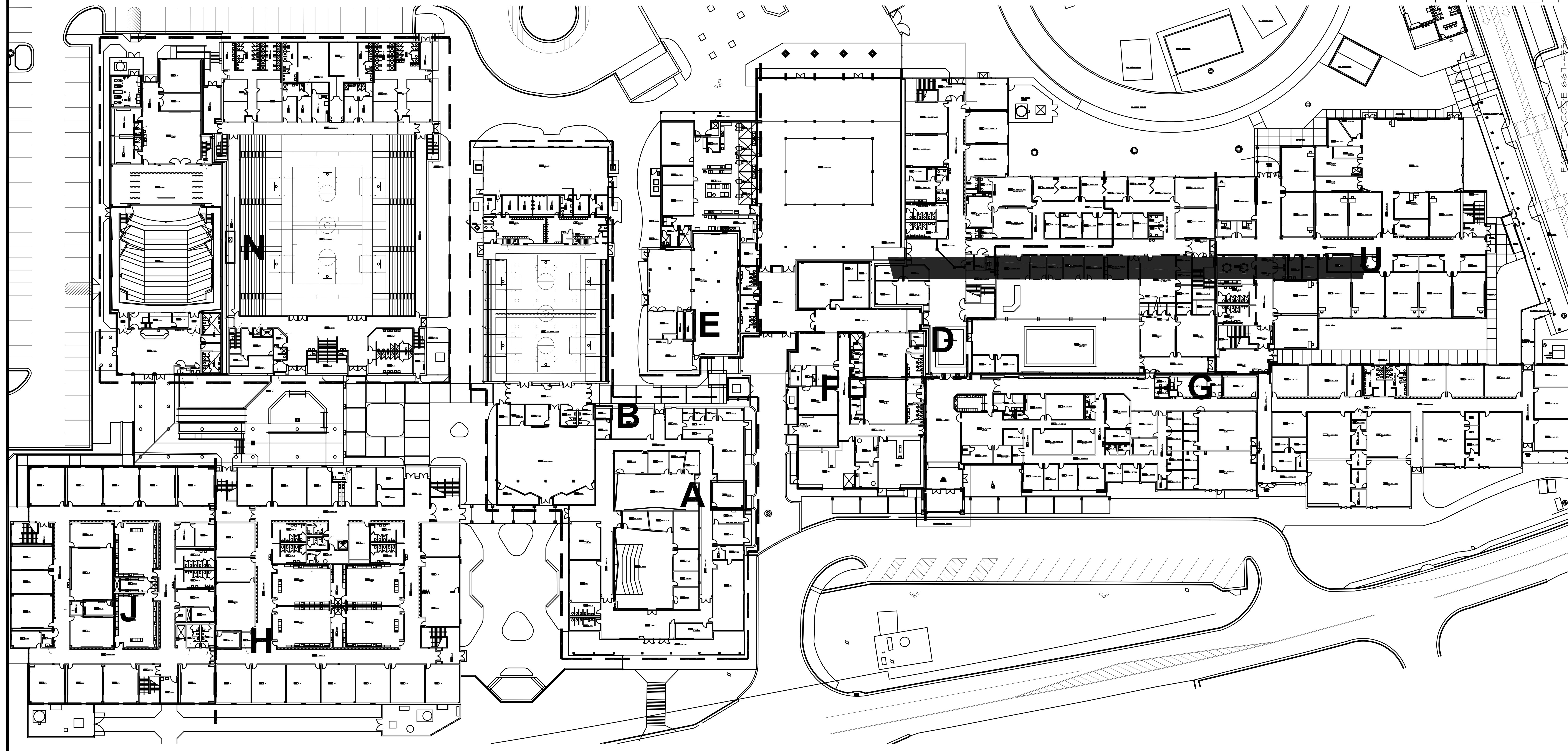
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DATE	REVISIONS	NO.
9/18/2021	DOE CHECK SET	
11/1/2021	Blgd. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	



FACILITY CODE 66T-4556  
 NORTH GWINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA  
 DATE: MARCH 1, 2021  
 JOB NO.: SHL-DO-21  
 DRG. BY: EDC  
 CK. BY: JRY  
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 L3.7



DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	



1 OVERALL DATA CLOSET SEPARATION  
L4.0 1"=30'-0"



2 LOWER LEVEL DATA CLOSET SEPARATION  
L4.0 1"=30'-0"

GENERAL NOTES:  
 1. DIV 27 IS RESPONSIBLE FOR ALL INTERCOM PENETRATIONS AND FIRE CAULK.  
 2. L4.X SHEETS WORK WILL START THE WEEK AFTER SCHOOL LETS OUT. MAY 30TH 2022. WORK MUST BE COMPLETE BY JULY 1ST 2022.



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 consulting engineers  
 2970 Clairmont Rd., Suite 620 | Atlanta, GA 30329  
 P: 404.633.0245 | F: 404.633.1756  
 SA JOB NO. 2016

**cunningham forehand matthews moore**

NORTH GUINNETT HIGH SCHOOL  
 EAST ADDITION  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GUINNETT COUNTY BOARD OF EDUCATION  
 GUINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
 JOB NO.: 541-LD01-21  
 DWG. BY: BDC  
 CK. BY: JRY

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**L4.0**

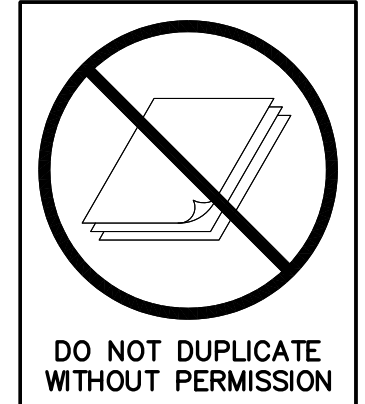


DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

- GENERAL NOTES:
1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF. FIRE CAULK AFTER CABLING IS COMPLETE.

EC TO PROVIDE CONDUIT TO ACCESSIBLE CEILING

① IDF & INTERCOM CABLING  
L4.1 1/8"=1'-0"



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FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

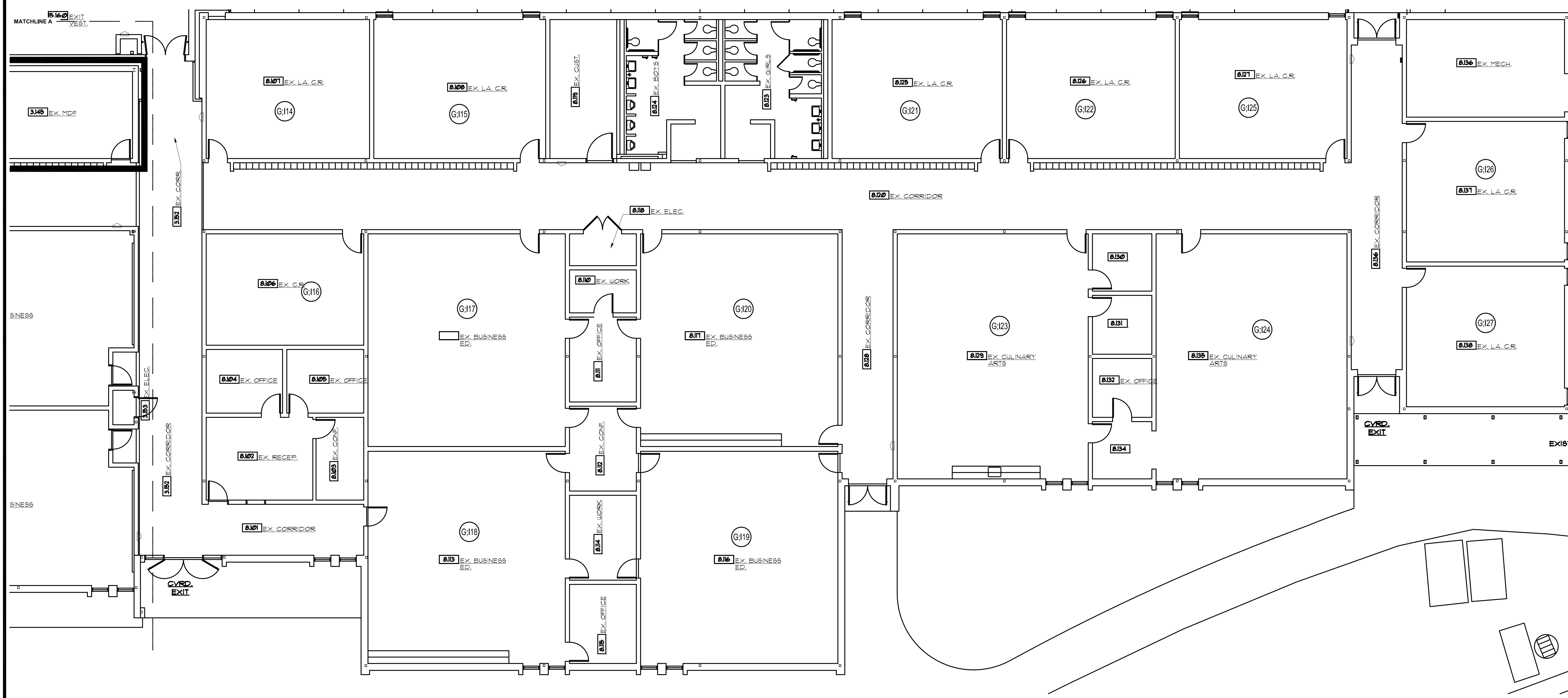
DATE: MARCH 1, 2021  
JOB NO.: S4L-DO-121  
DWG. BY: BCC  
CHK. BY: JRT

# cunningham foehand mchawemoe

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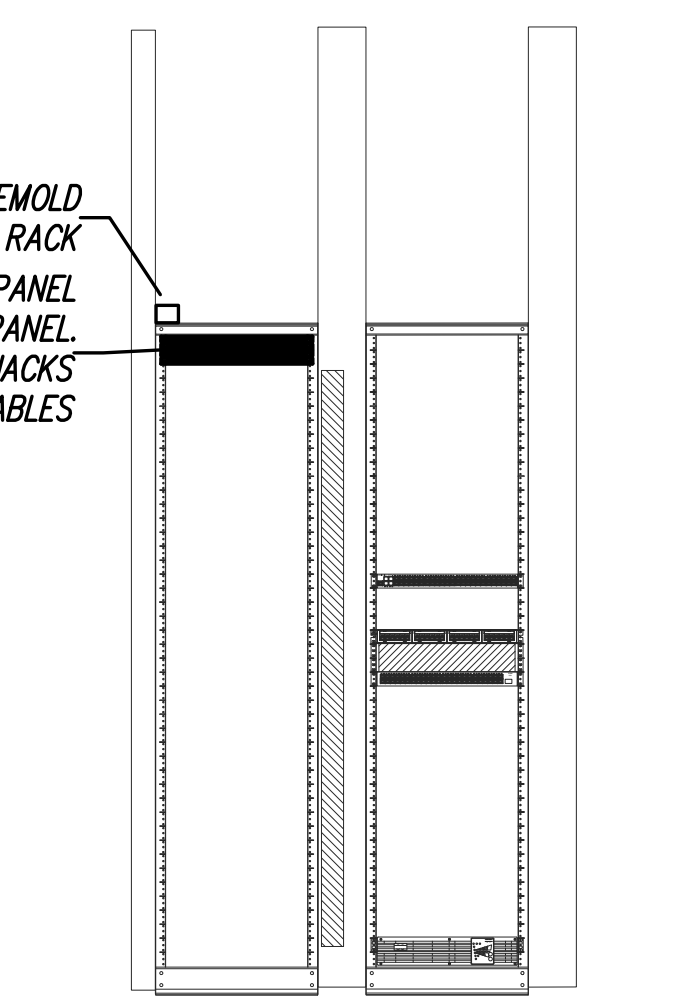
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DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

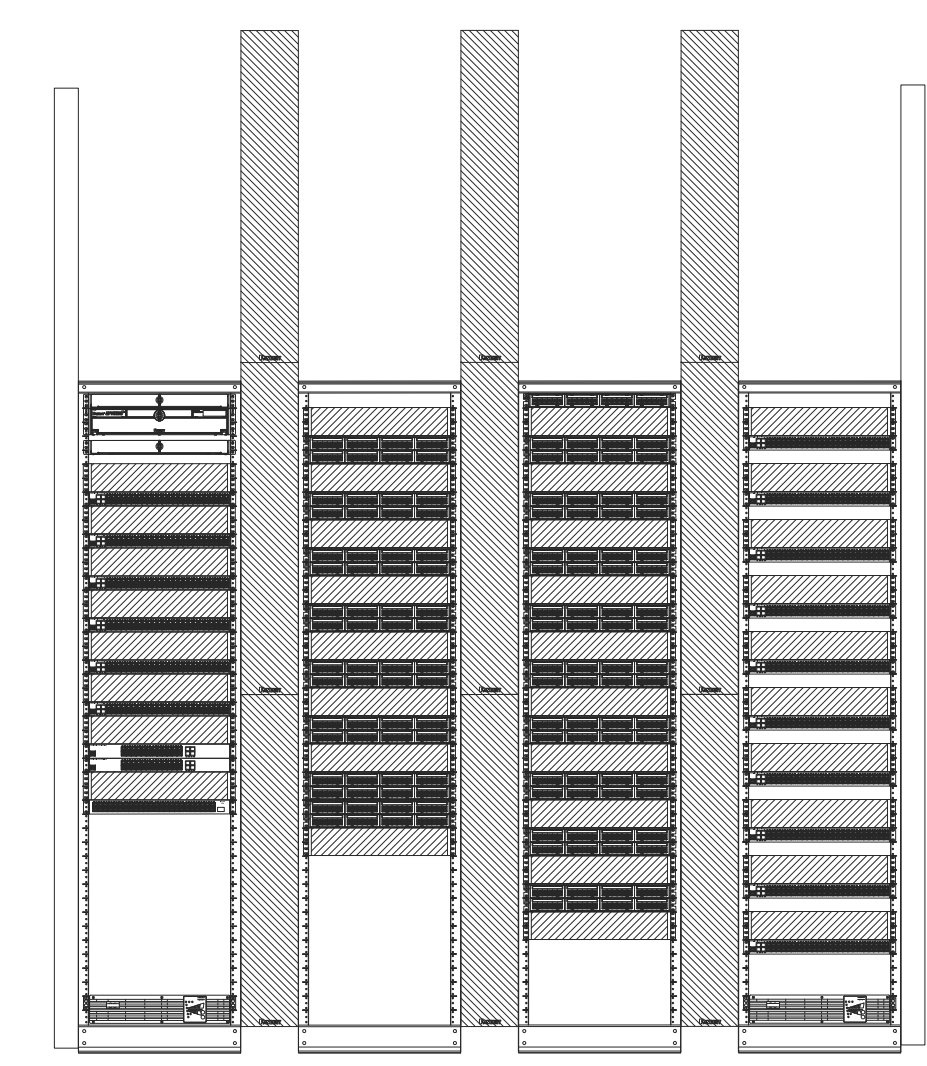


1 IDF G INTERCOM CABLING CONTINUED  
L4.2 1/8"=1'-0"

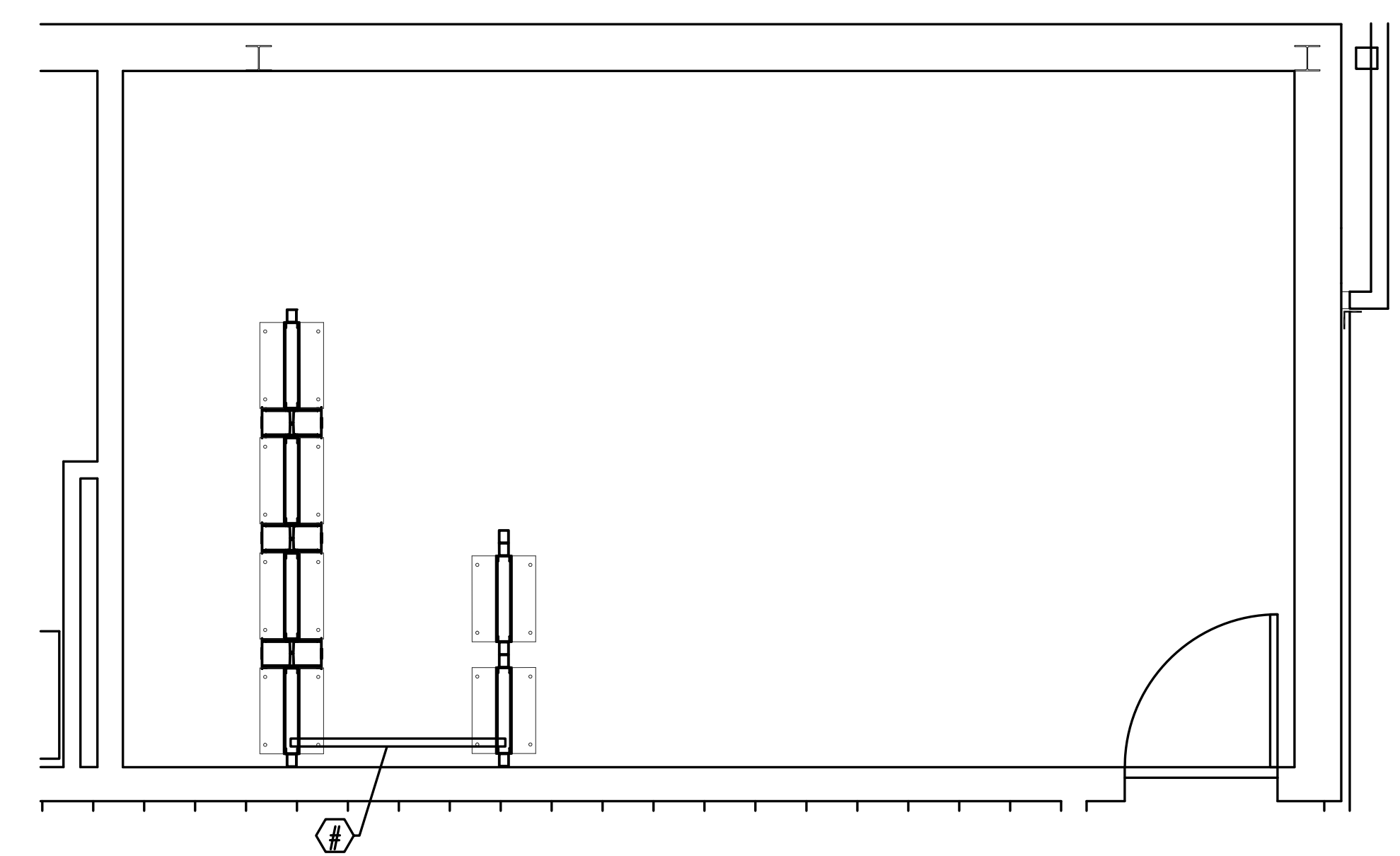
ADD ALA3800 WIREMOLD  
FROM BACK RACK TO FRONT RACK  
INTERCOM PANEL  
INSTALL NEW 48 PORT PATCH PANEL  
PROVIDE YELLOW CAT6 JACKS  
PROVIDE 1FT YELLOW PATCH CABLES



1 IDF 3.145 1ST ROW RACKS DETAILS  
SCALE 1/2"=1'-0"



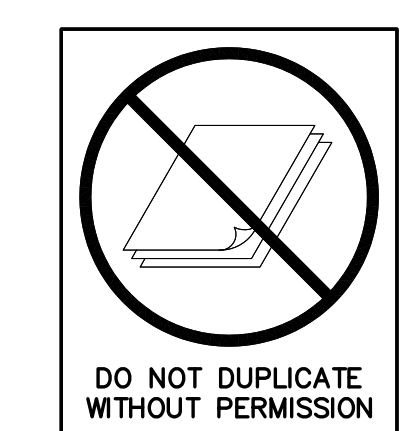
2 IDF 3.145 2ND ROW RACKS DETAILS  
SCALE 1/2"=1'-0"



3 EXISTING IDF G RACK DETAIL  
L4.2 3/8"=1'-0"

2 EXISTING IDF G RACK DETAIL  
L4.2 1/2"=1'-0"

- GENERAL NOTES:
- PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  - DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  - DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  - DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

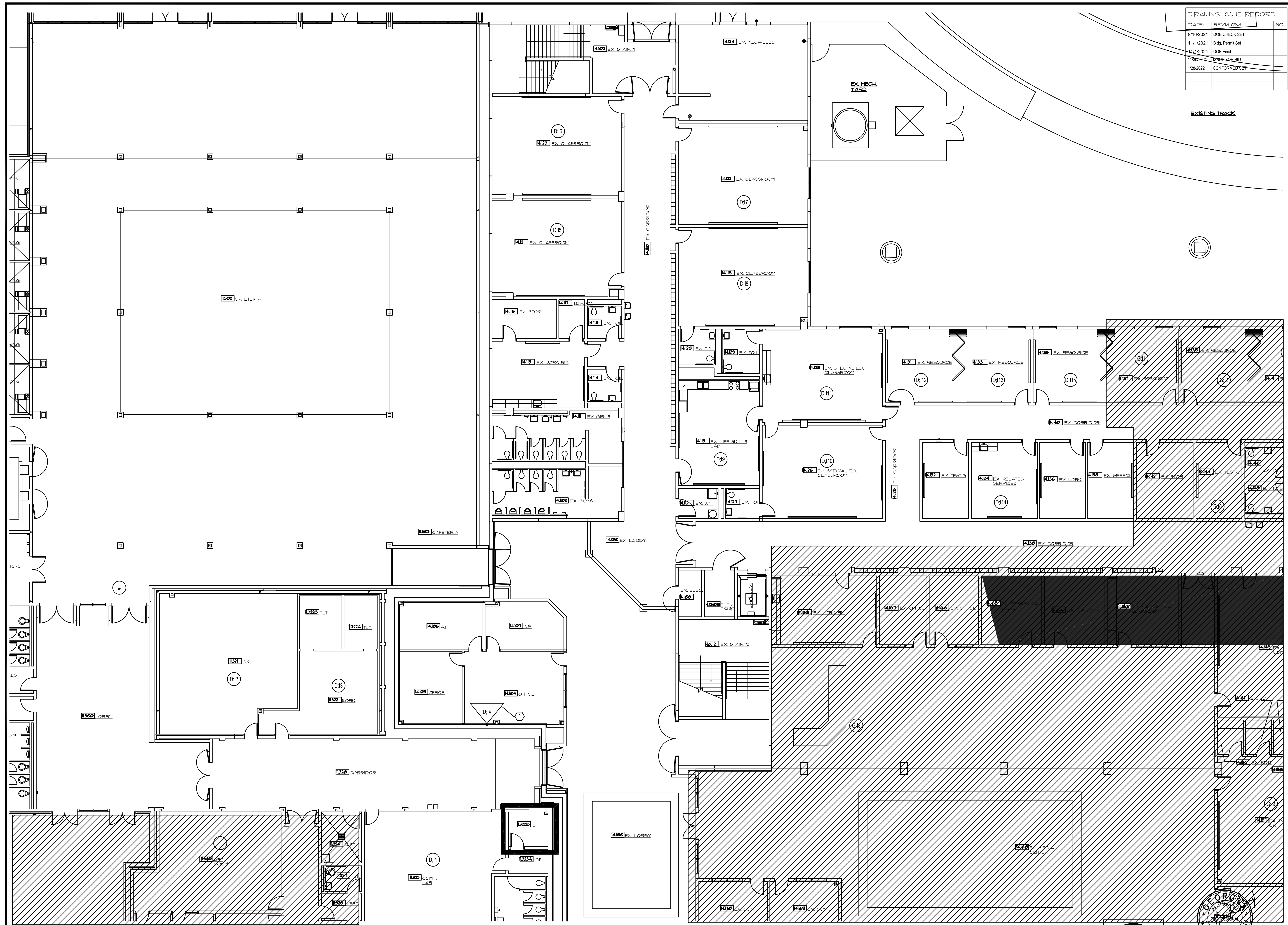
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**L4.2**



DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
1/11/2022	DOE Final	
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EXISTING TRACK

FACILITY CODE 667-4556

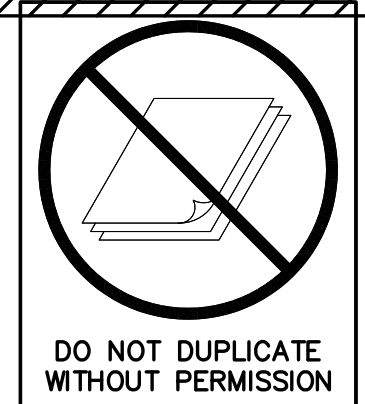
**NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

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- GENERAL NOTES:**
1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.

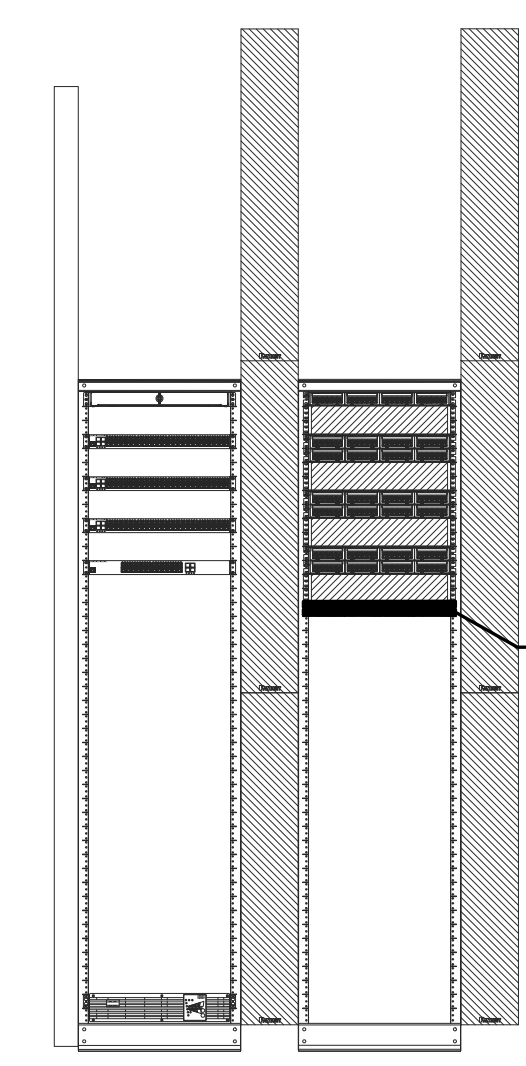
- KEYNOTES:**
- ① ADD INTERCOM DROP TO THE EXISTING DROPS IN THE WALL. PROVIDE NEW BEZEL IF NEEDED.

① IDF D INTERCOM CABLING  
L4.3 1/8"=1'-0"



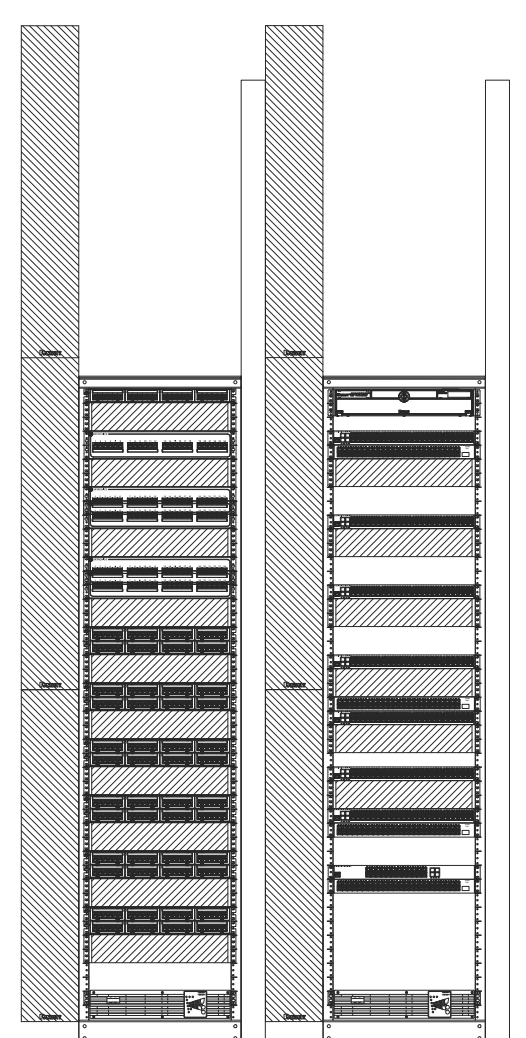
**SPURLOCK & ASSOCIATES, INC.**  
consulting engineers  
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P: 404.633.0245 | F: 404.633.1724  
SA JOB NO. 2016

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INTERCOM PANEL. INSTALL NEW 24 PORT PATCH PANEL. PROVIDE YELLOW CAT6 JACKS. PROVIDE 4FT YELLOW PATCH CABLES

2 EXISTING IDF S RACK DETAIL  
L4.4 1/2"=1'-0"

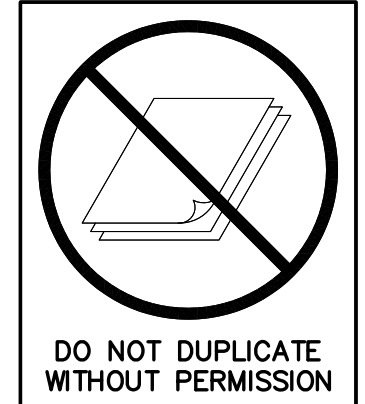


3 EXISTING IDF D RACK DETAIL  
L4.4 1/2"=1'-0"

1 IDF S INTERCOM CABLING  
L4.4 1/8"=1'-0"

GENERAL NOTES:

1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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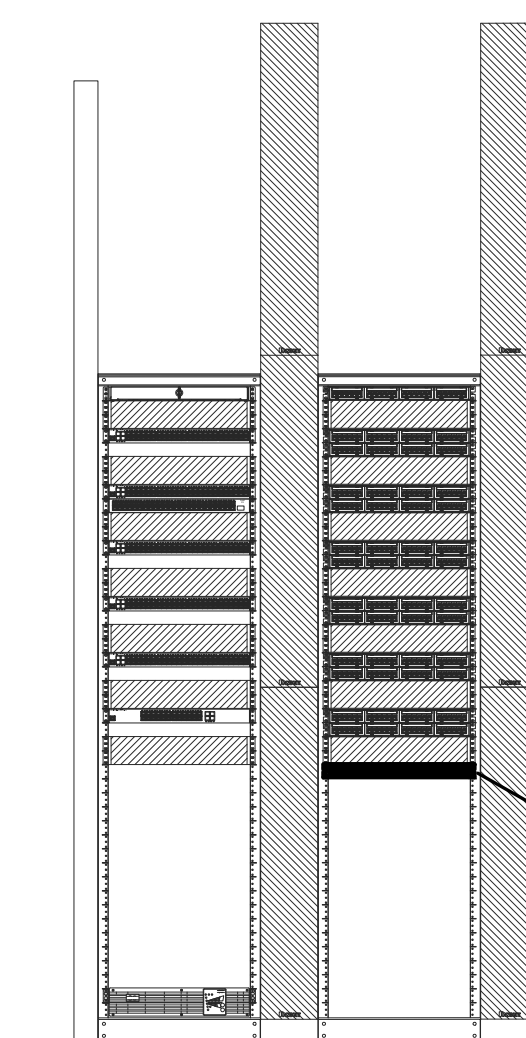
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

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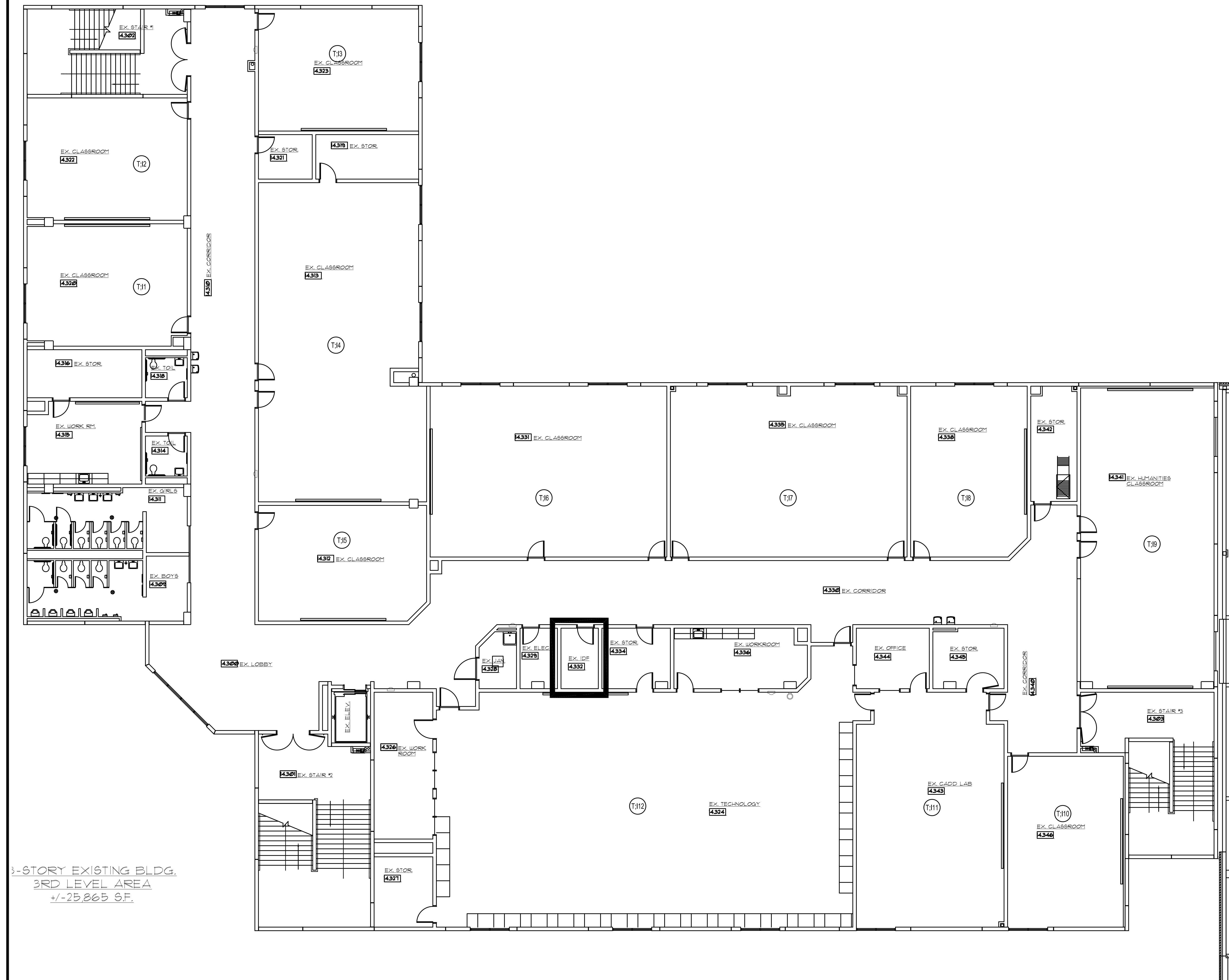
**L4.4**

DRAWING ISSUE RECORD		
DATE	REVISIONS	NO.
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11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	



INTERCOM PANEL. INSTALL NEW 24 PORT PATCH PANEL. PROVIDE YELLOW CAT6e JACKS. PROVIDE 4FT YELLOW PATCH CABLES

2 EXISTING IDF T RACK DETAIL  
L4.5 1/2"=1'-0"

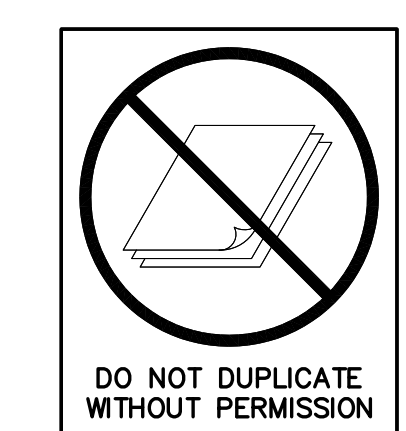


1 IDF T INTERCOM CABLING  
L4.5 1/8"=1'-0"

3-STORY EXISTING BLDG.  
3RD LEVEL AREA  
+/- 25,865 S.F.

GENERAL NOTES:

1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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SA JOB NO. 2016

FACILITY CODE 667-4556

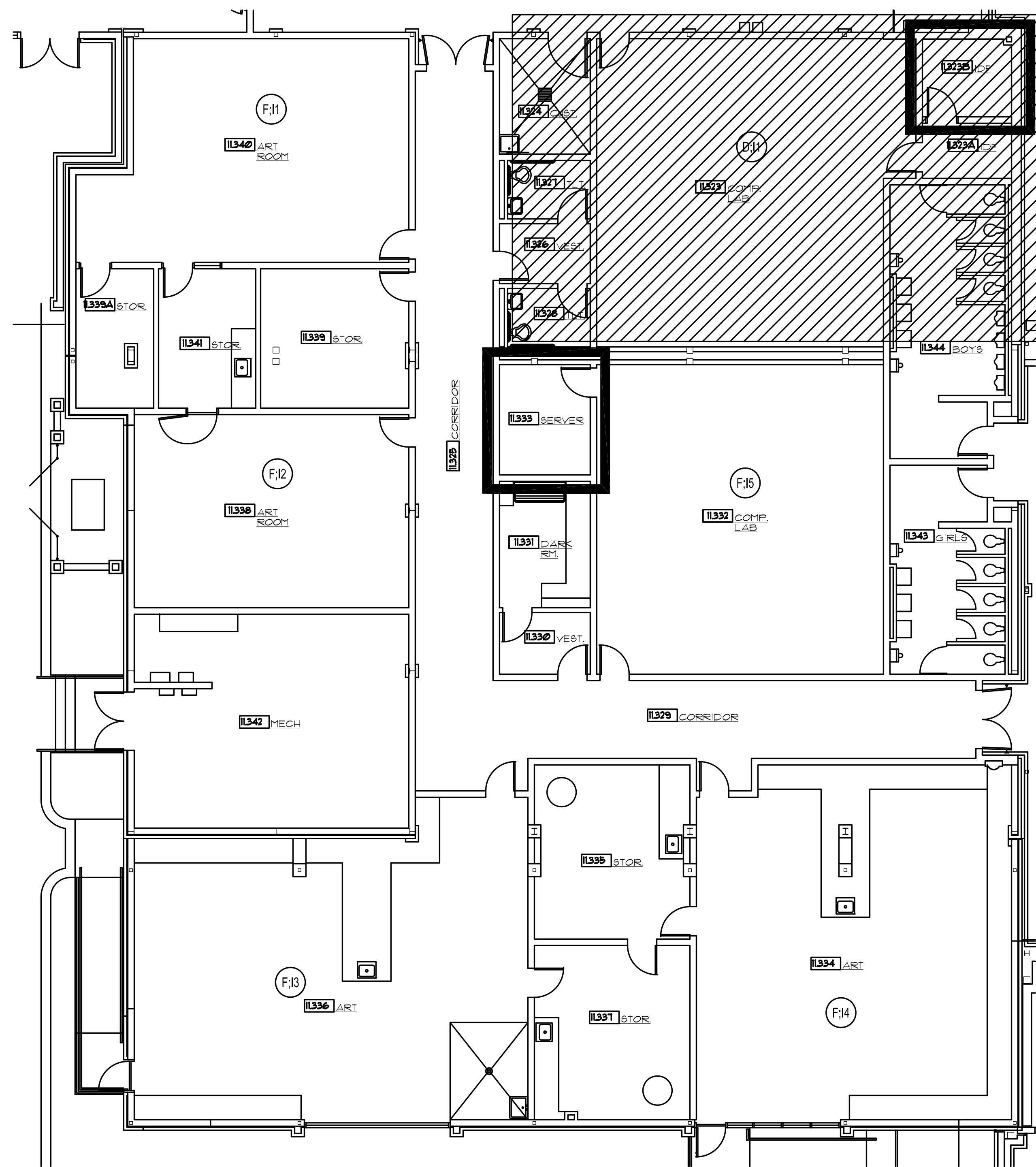
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

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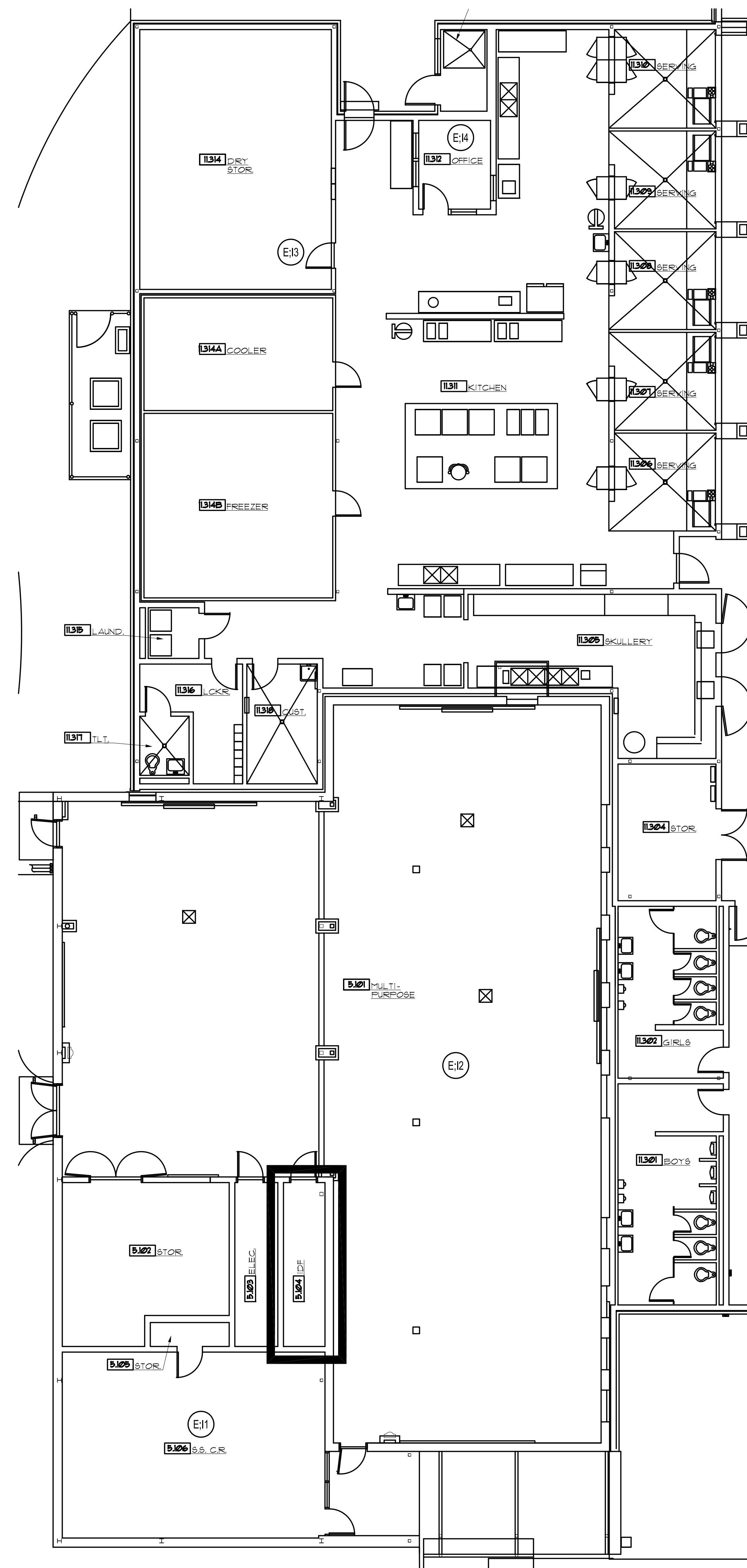
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**L4.5**

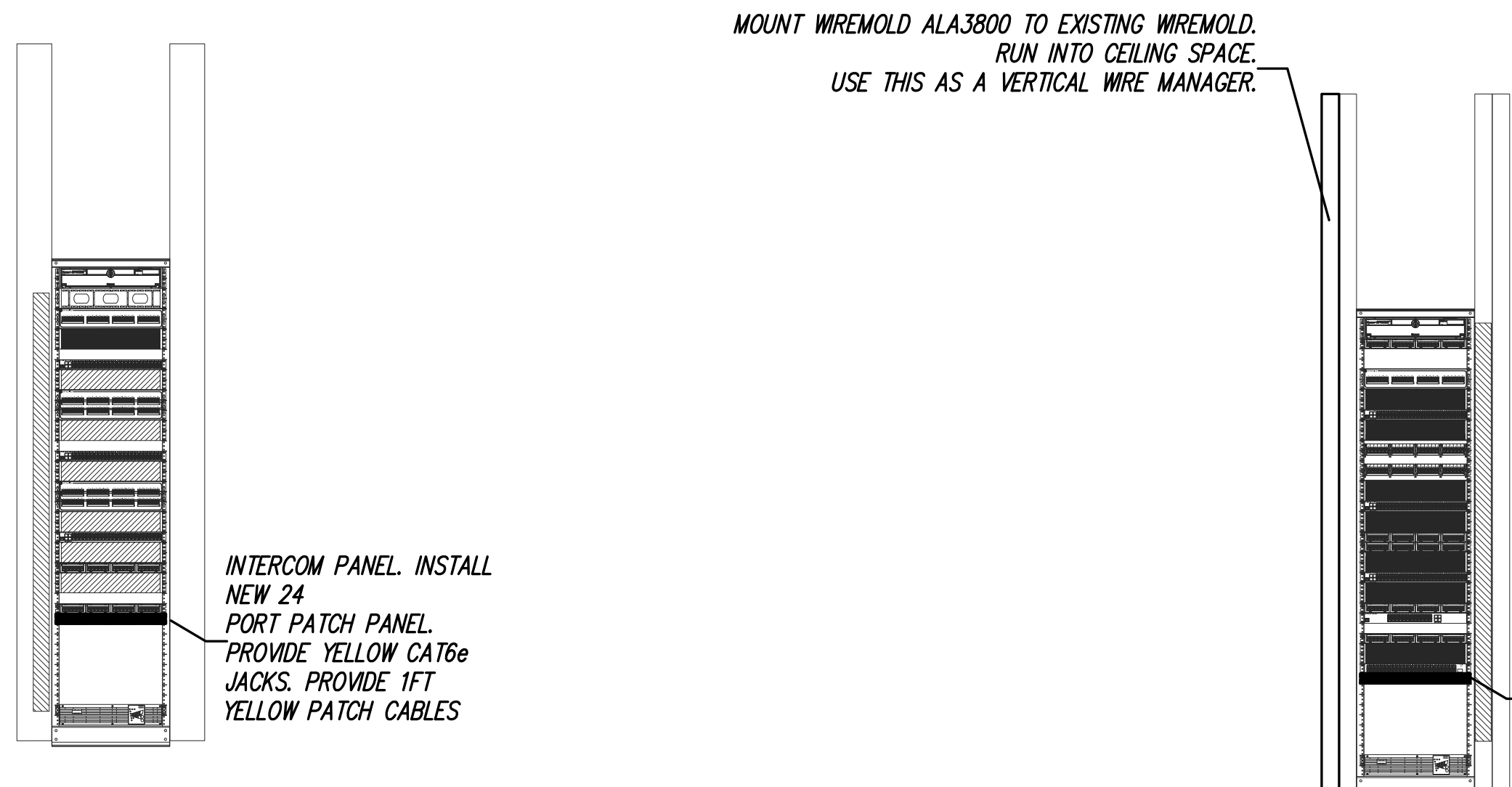
DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	



1 IDF F INTERCOM CABLING  
L4.6 1/8"=1'-0"



2 IDF E INTERCOM CABLING  
L4.6 1/8"=1'-0"



MOUNT WIREMOLD ALA3800 TO EXISTING WIREMOLD.  
RUN INTO CEILING SPACE.  
USE THIS AS A VERTICAL WIRE MANAGER.

INTERCOM PANEL. INSTALL NEW 24 PORT PATCH PANEL. PROVIDE YELLOW CAT6e JACKS. PROVIDE 1FT YELLOW PATCH CABLES

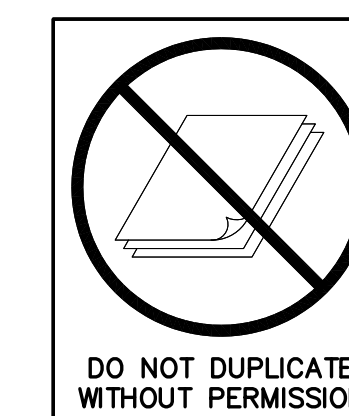
INTERCOM PANEL. INSTALL NEW 24 PORT PATCH PANEL. PROVIDE YELLOW CAT6e JACKS. PROVIDE 1FT YELLOW PATCH CABLES

3 EXISTING IDF F RACK DETAIL  
L4.6 1/2"=1'-0"

4 EXISTING IDF E RACK DETAIL  
L4.6 1/2"=1'-0"

GENERAL NOTES:

1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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SA JOB NO. 2016

FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
JOB NO.: 541-001-21  
DWG. BY: BDC  
CHK. BY: JRT

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DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
12/8/2022	CONFORMED SET	

FACILITY CODE 667-4556

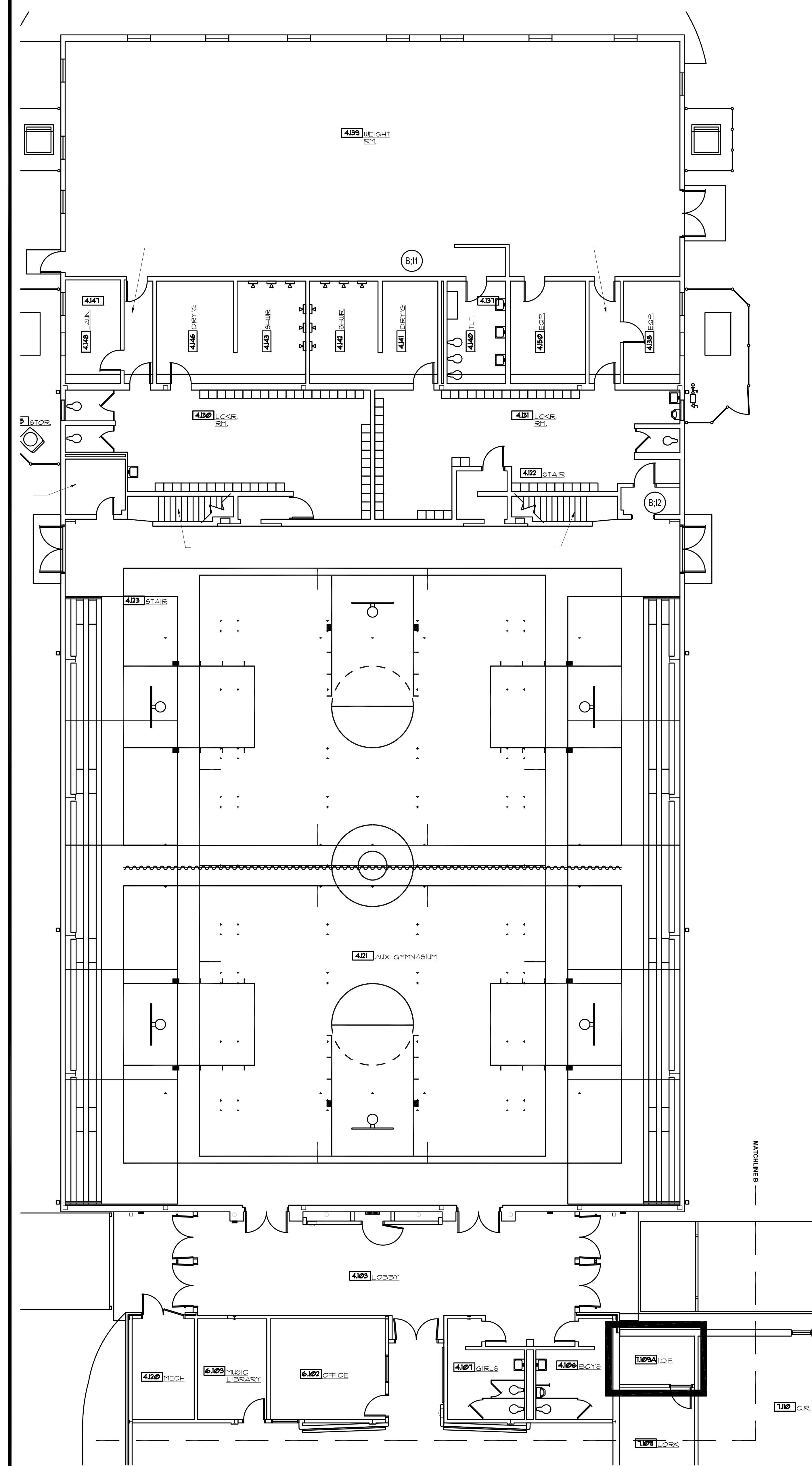
**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
 20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
 JOB NO.: 541-LD01-21  
 DWG. BY: BDC  
 CK. BY: JRY

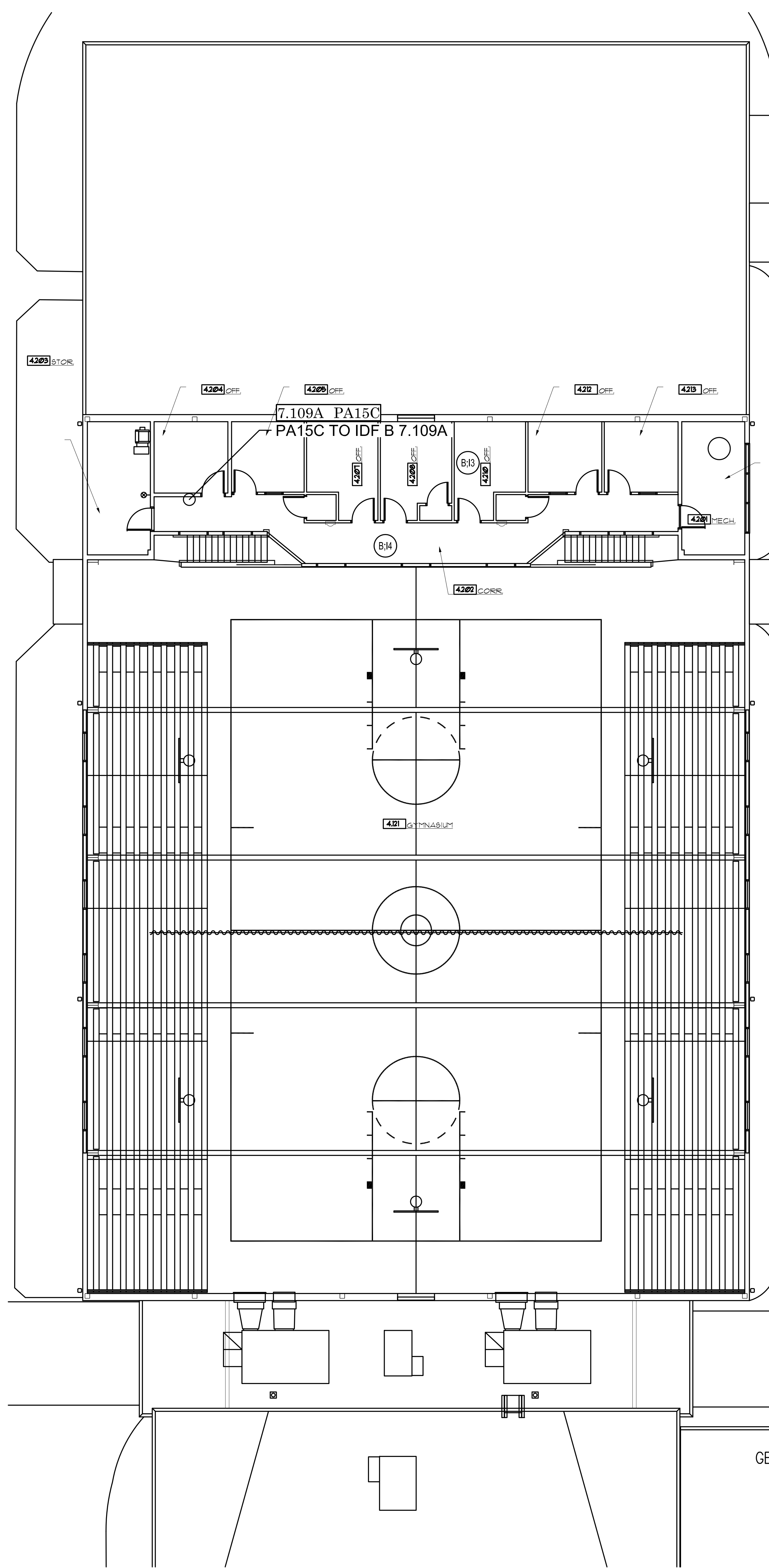
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**L4.7**

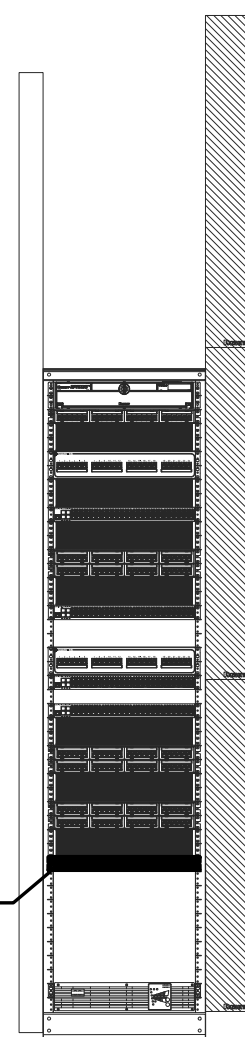


1 IDF B INTERCOM CABLING  
 L4.7 1/8"=1'-0"



2 UPPER FLOOR IDF B INTERCOM CABLING  
 L4.7 1/8"=1'-0"

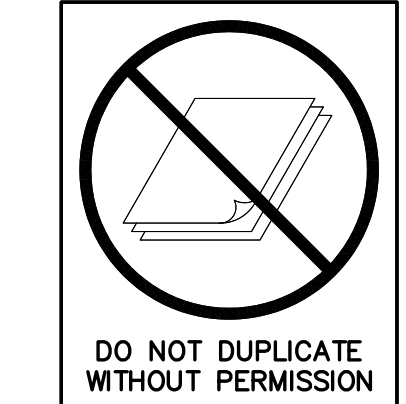
INSTALL NEW 48 PORT PATCH PANEL.  
 PROVIDE YELLOW CAT6e JACKS  
 PROVIDE 1FT YELLOW PATCH CABLES



3 EXISTING IDF B RACK DETAIL  
 L4.7 1/8"=1'-0"

GENERAL NOTES:

1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO CLASSROOM FIRE CAULK AFTER CABLING IS COMPLETE.

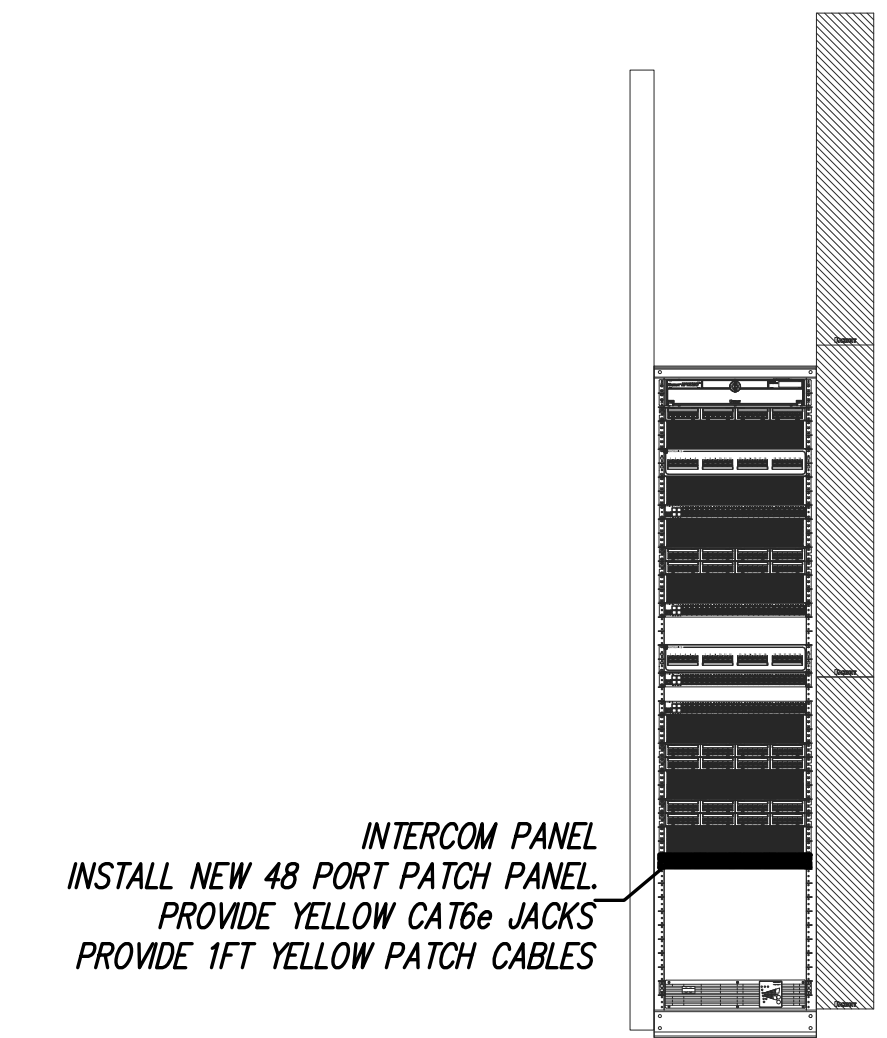
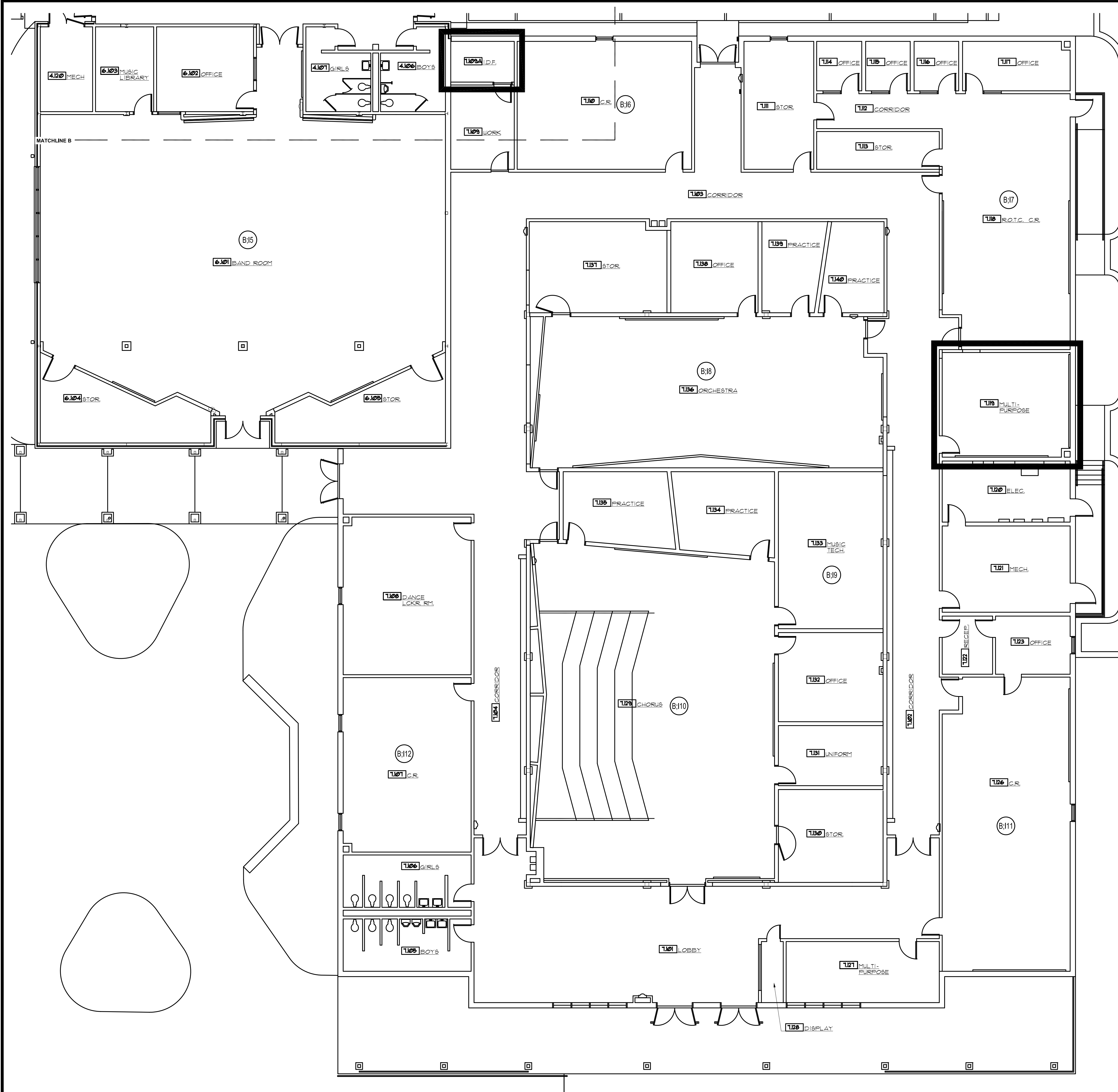


DO NOT DUPLICATE WITHOUT PERMISSION



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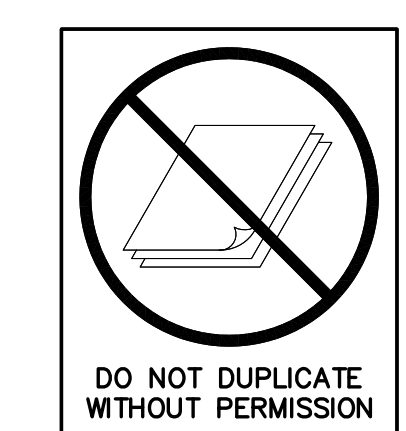
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DATE	REVISIONS	NO.
9/16/2021	DOE CHECK SET	
11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
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2 EXISTING IDF B RACK DETAIL  
L4.8 1/2"=1'-0"

1 MDF A & IDF B INTERCOM CABLING CONTINUED  
L4.8 1/8"=1'-0"

- GENERAL NOTES:
1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.
  5. RUN ALL DROPS IN THIS SECTION TO IDF B 7.109.



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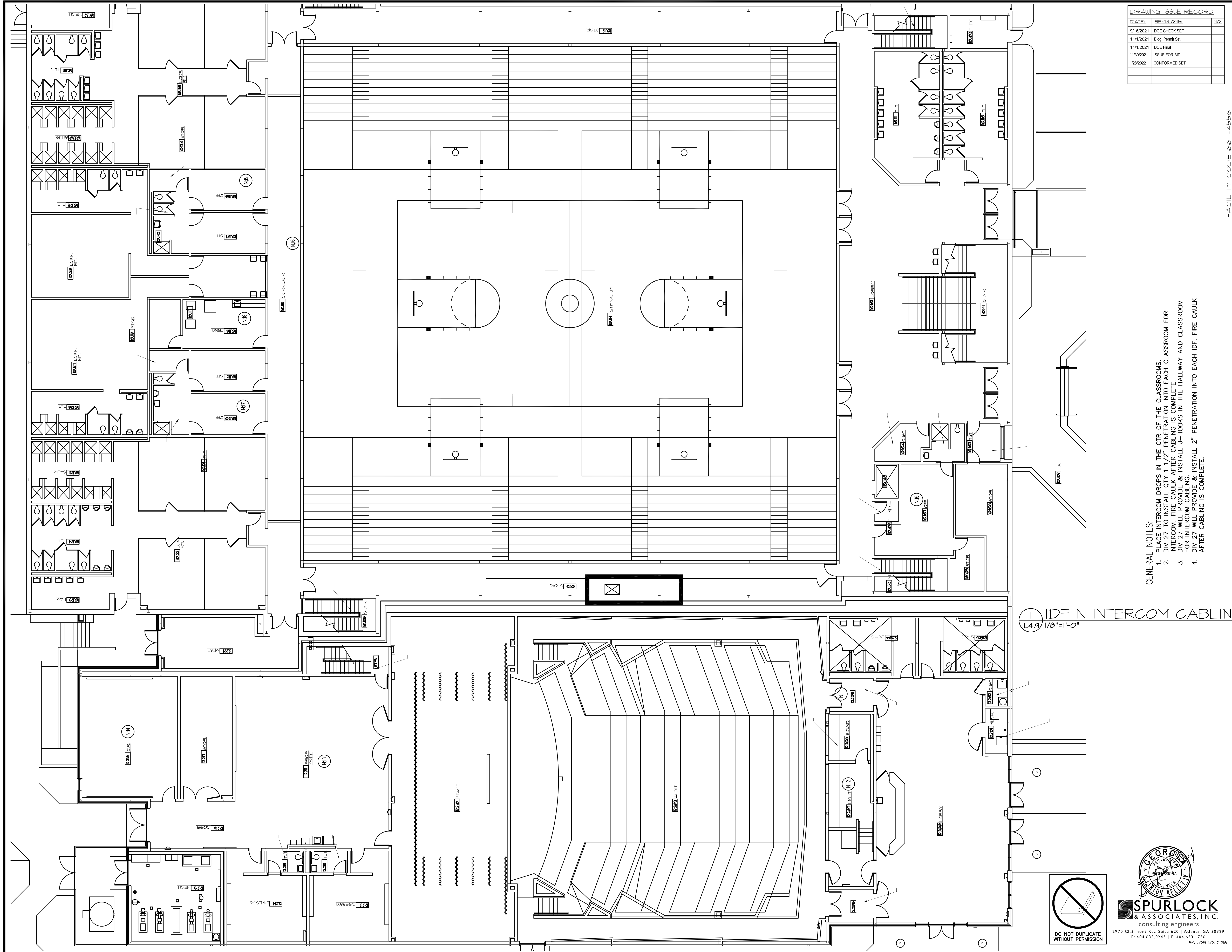
FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

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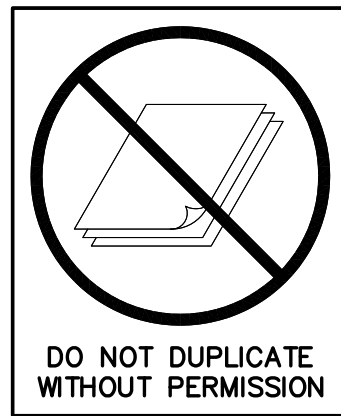
**L4.8**



DRAWING ISSUE RECORD		
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11/1/2021	DOE Final	
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12/8/2022	CONFORMED SET	

- GENERAL NOTES:
1. PLACE INTERCOM DROPS IN THE CTR. OF THE CLASSROOMS. TO INSTALL QTY 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM PIPING AFTER CABLING IS COMPLETE.
  2. DIV. 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  3. DIV. 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.

① IDF N INTERCOM CABLING  
L4.9 1/8"=1'-0"



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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

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GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021  
JOB NO.: SHL-DO-21  
DWG. BY: BDC  
CHK. BY: JRY

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L4.9

DRAWING ISSUE RECORD		
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11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
1/28/2022	CONFORMED SET	

FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 11, 2021

JOB NO.: 541-101-21

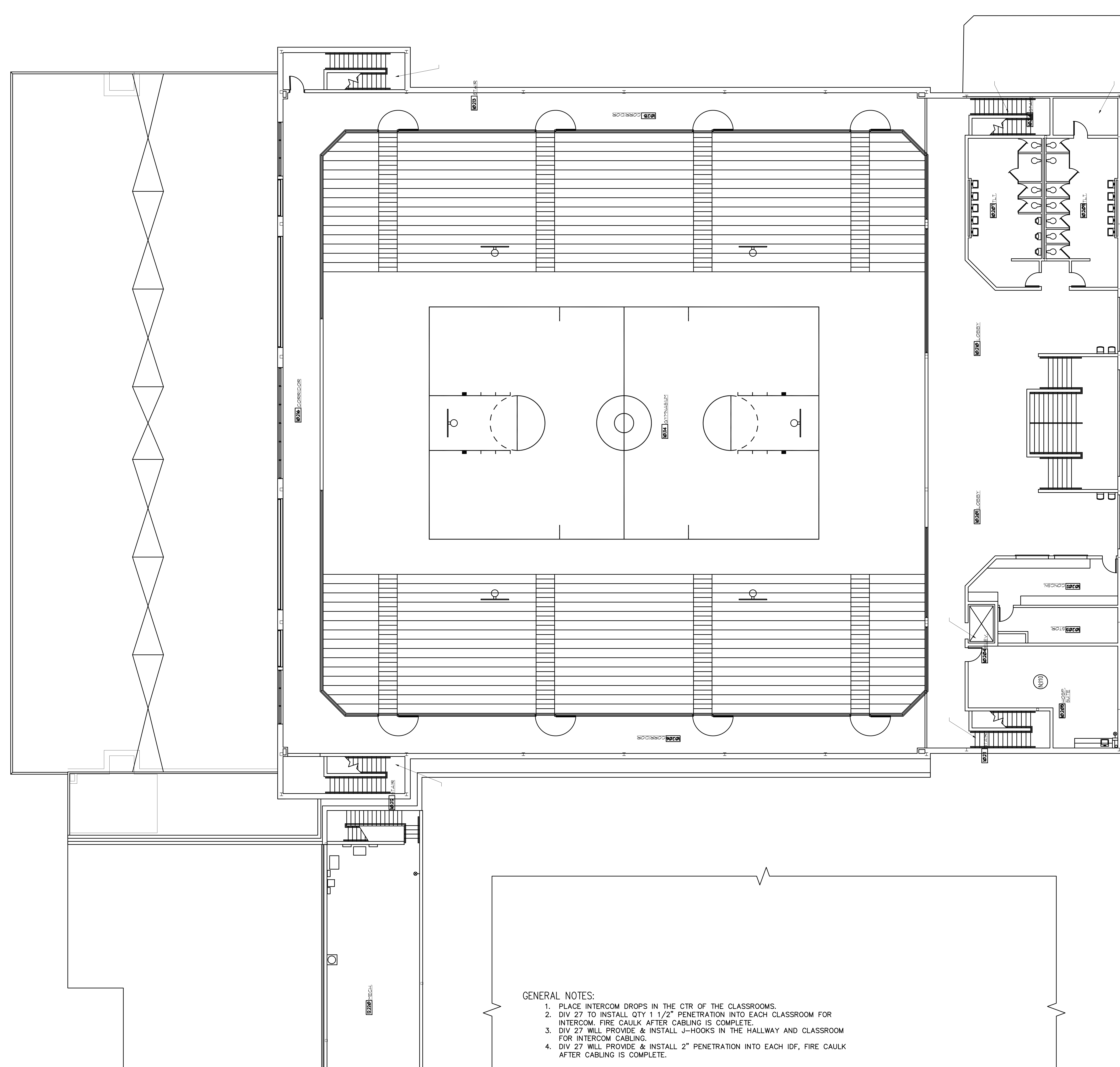
DRG. BY: BDC

CHK. BY: JRY

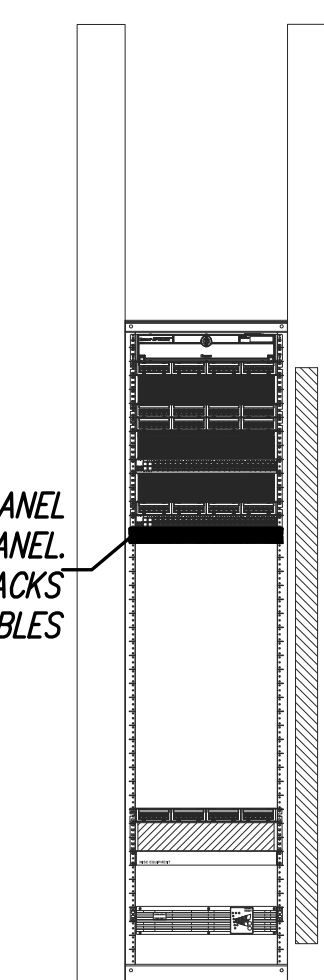
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**L4.10**



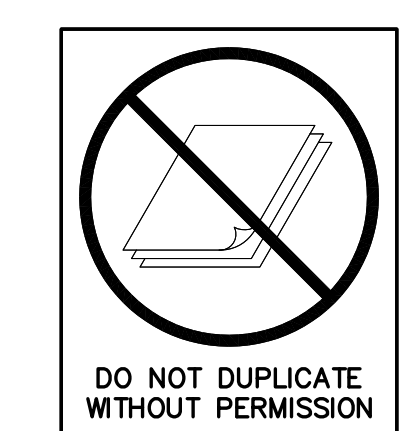
INTERCOM PANEL  
INSTALL NEW 48 PORT PATCH PANEL  
PROVIDE YELLOW CAT6a JACKS  
PROVIDE 1FT YELLOW PATCH CABLES



EXISTING  
2 IDF N RACK DETAIL  
L4.10 1/2"=1'-0"

UPPER FLOOR  
IDF N INTERCOM CABLING  
L4.10 1/8"=1'-0"

- GENERAL NOTES:
1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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11/1/2021	DOE Final	
11/30/2021	ISSUE FOR BID	
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FACILITY CODE 667-4556

**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
 GWINNETT COUNTY BOARD OF EDUCATION  
 GWINNETT COUNTY, GEORGIA

DATE: MARCH 11, 2021

JOB NO.: 541L-D01-21

DATE: MARCH 11, 2021

DATE: MARCH 11, 2021

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DATE: MARCH 11, 2021

DATE: MARCH 11, 2021

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DATE: MARCH 11, 2021

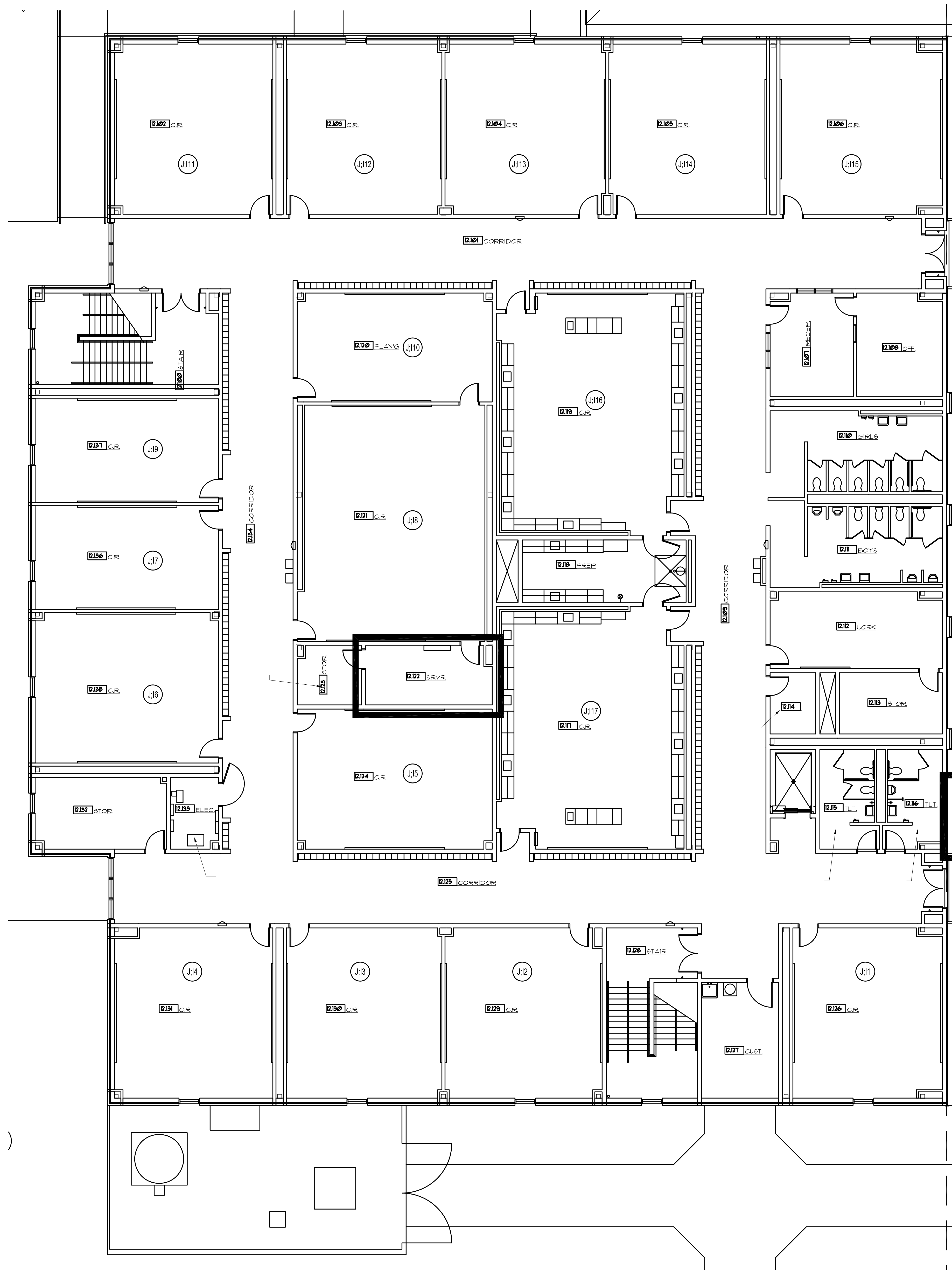
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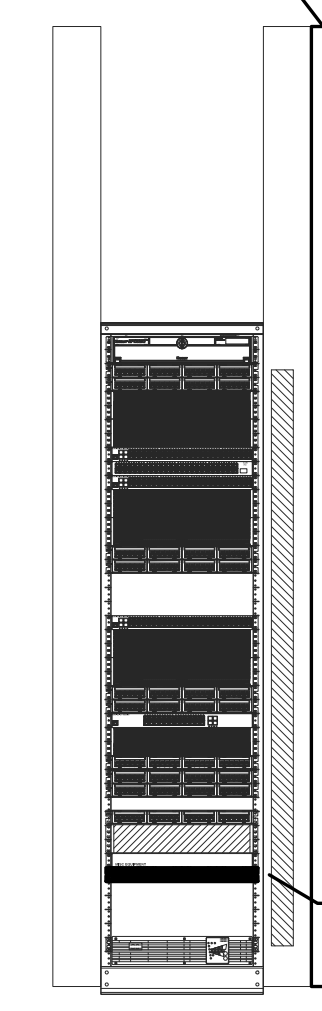
DATE: MARCH 11, 2021

DATE: MARCH 11, 2021

DATE: MARCH 11, 2021



MOUNT WIREMOLD ALA3800 TO EXISTING WIREMOLD.  
 RUN INTO CEILING SPACE.  
 USE THIS AS A VERTICAL WIRE MANAGER.

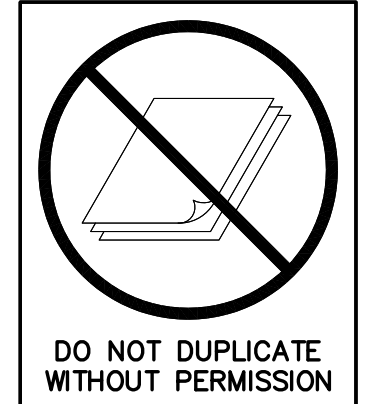


INTERCOM PANEL. INSTALL  
 NEW 24  
 PORT PATCH PANEL.  
 PROVIDE YELLOW CAT6e  
 JACKS. PROVIDE 1FT  
 YELLOW PATCH CABLES

2 EXISTING IDF J RACK DETAIL  
 L4.11 1/8"=1'-0"

1 IDF J INTERCOM CABLING  
 L4.11 1/8"=1'-0"

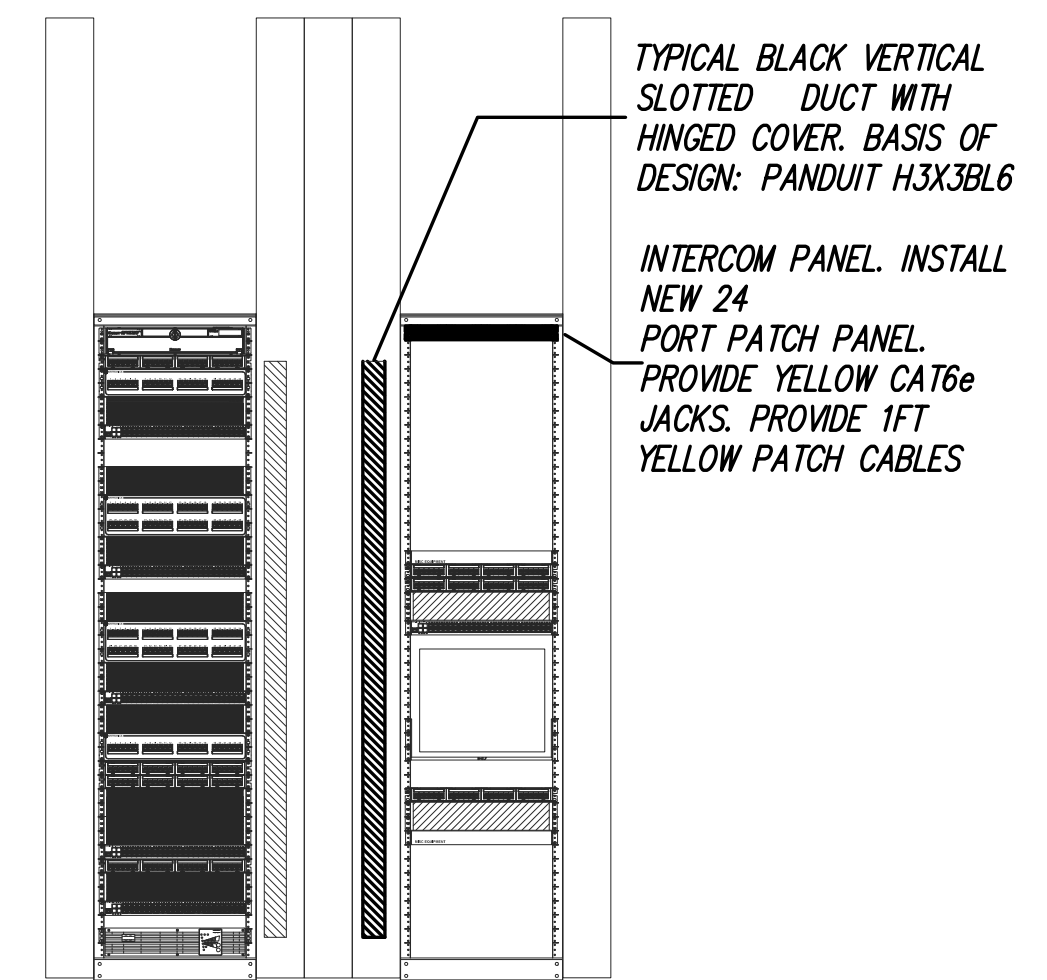
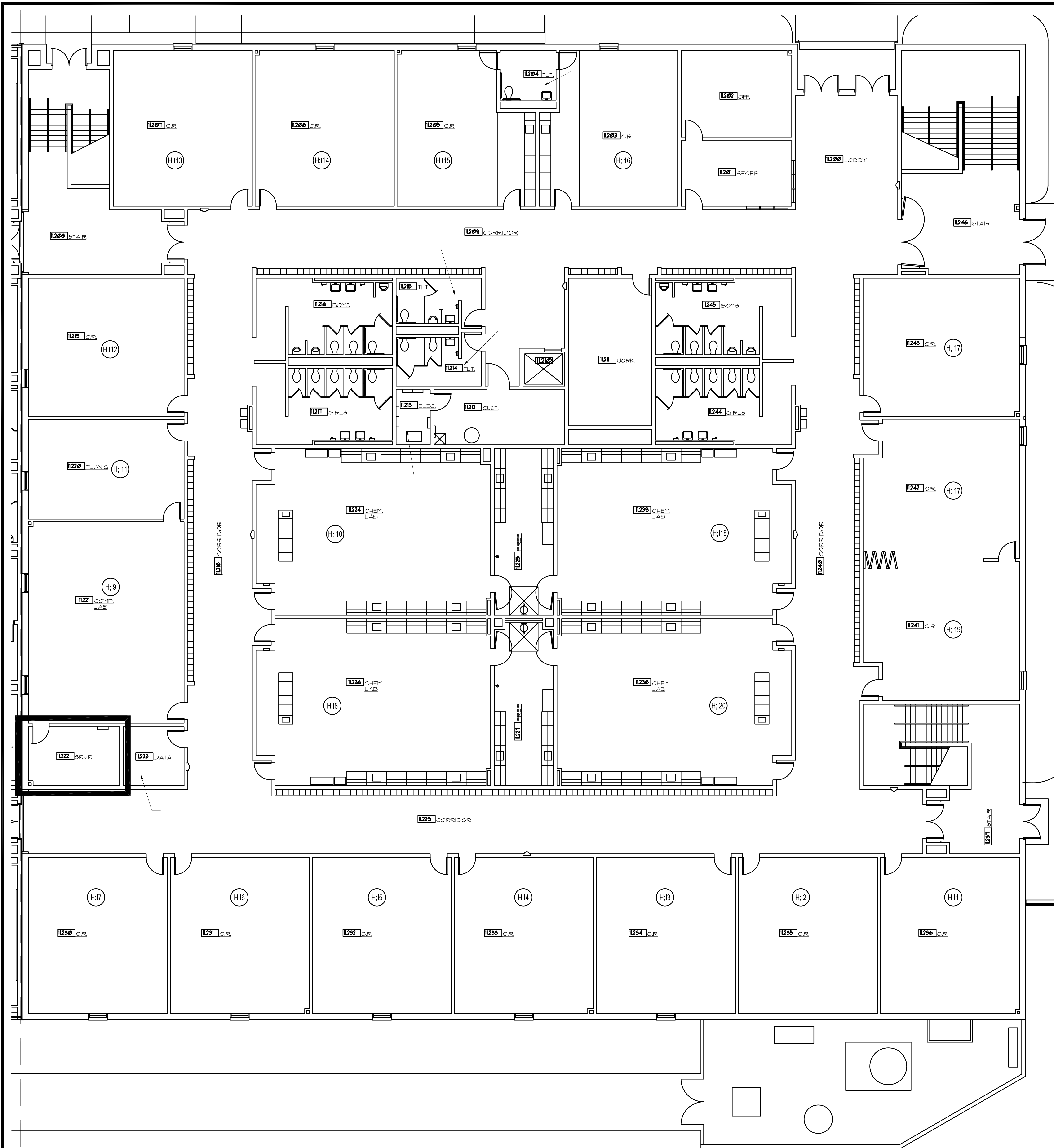
- GENERAL NOTES:
1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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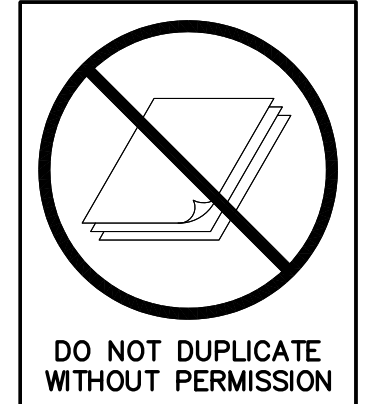
1 IDF 11,222, RACKS DETAILS  
SCALE 1/2"=1'-0"

2 EXISTING IDF H RACK DETAIL  
SCALE 1/2"=1'-0"

1 IDF H INTERCOM CABLING  
SCALE 1/8"=1'-0"

GENERAL NOTES:

1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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**NORTH GWINNETT HIGH SCHOOL**  
**EAST ADDITION**  
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GWINNETT COUNTY BOARD OF EDUCATION  
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**L4.12**

DATE: MARCH 11, 2021  
JOB NO.: SH-LD01-21  
DWG. BY: BDC  
CHK. BY: JRY

DATE	REVISIONS	NO.
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11/1/2021	Bldg. Permit Set	
11/1/2021	DOE Final	
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NORTH GWINNETT HIGH SCHOOL  
EAST ADDITION

20 LEVEL CREEK ROAD, SUWANEE, GA 30024  
GWINNETT COUNTY BOARD OF EDUCATION  
GWINNETT COUNTY, GEORGIA

DATE: MARCH 1, 2021

JOB NO. 541-001-21

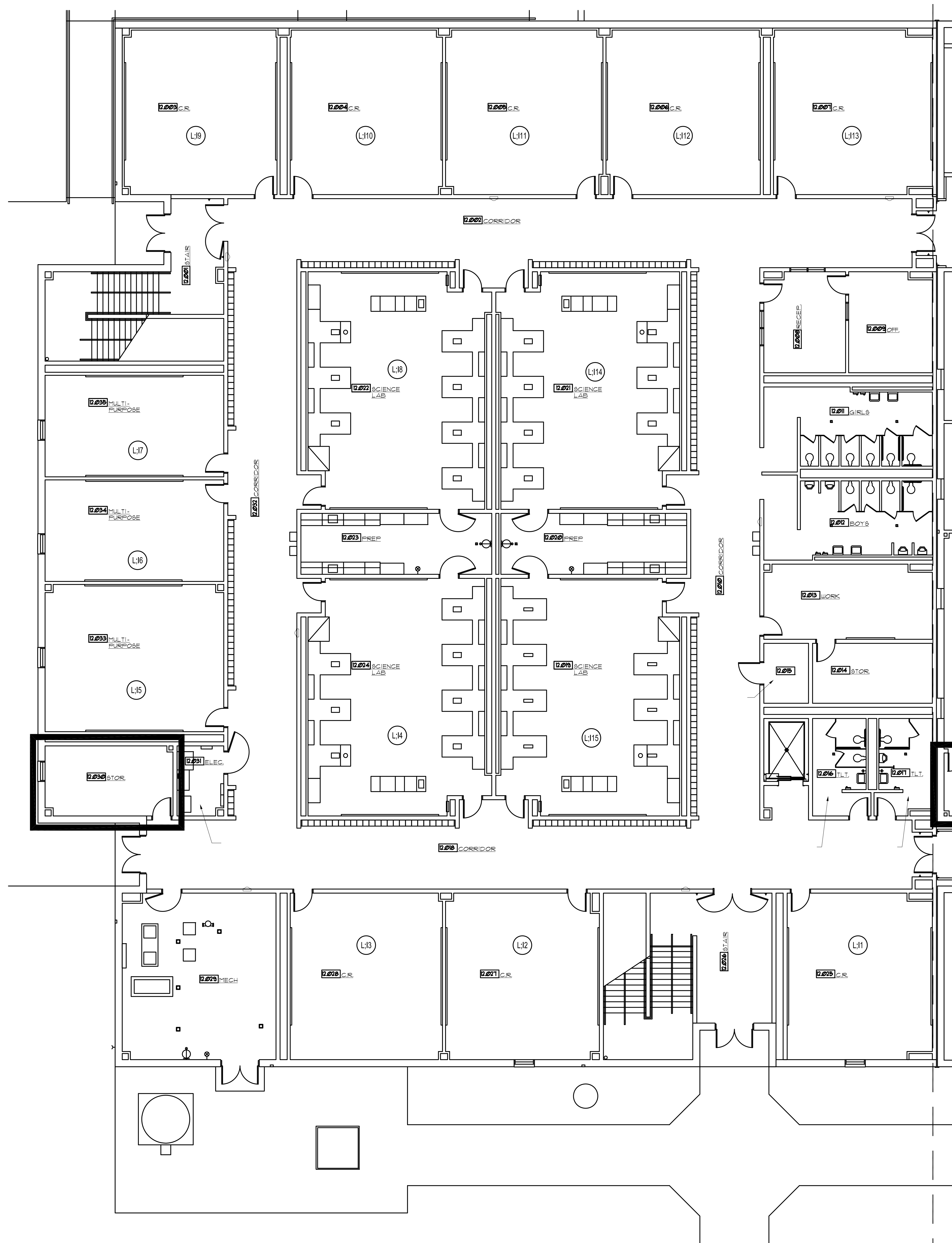
DRG. BY: EDC

CHK. BY: JRY

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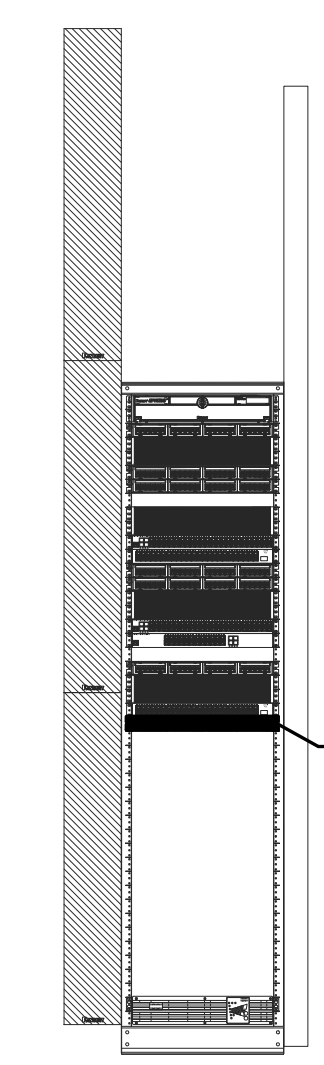
**cunningham forehand matthews moore**

L4.13



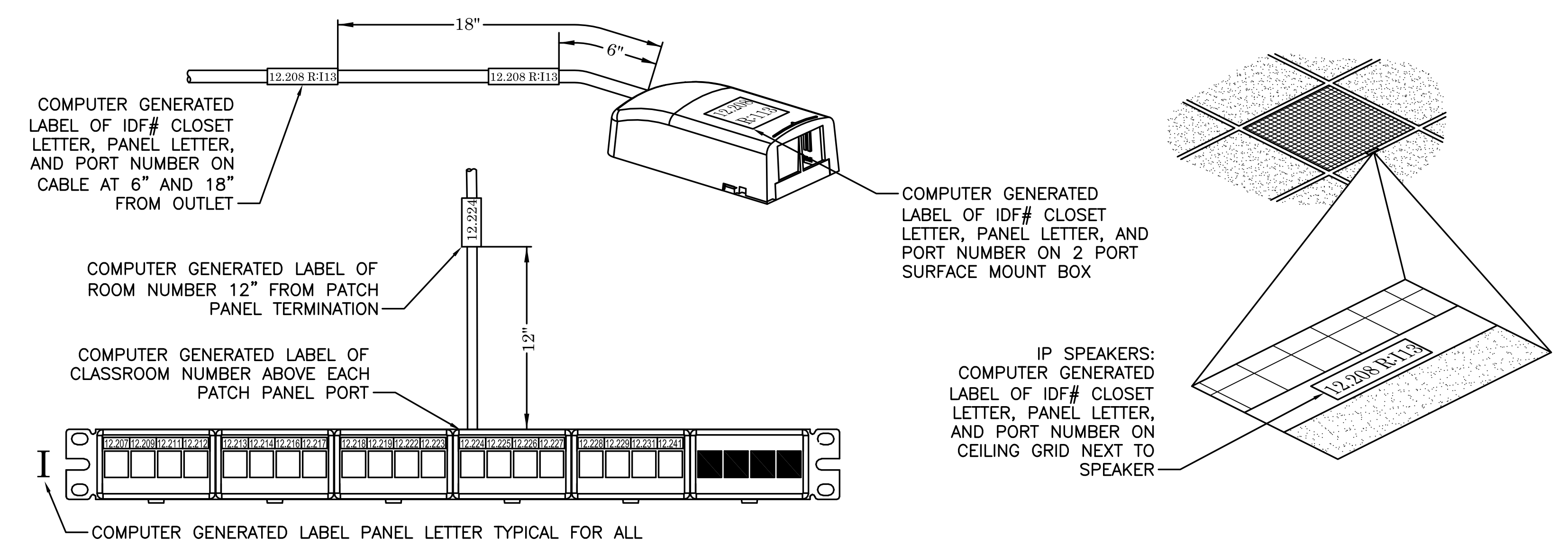
1 IDF L INTERCOM CABLING  
L4.13 1/8"=1'-0"

- GENERAL NOTES:
1. PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
  2. DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
  3. DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
  4. DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



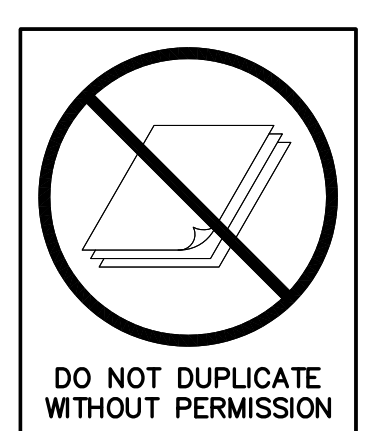
INTERCOM PANEL. INSTALL NEW 24 PORT PATCH PANEL. PROVIDE YELLOW CAT6e JACKS. PROVIDE 1FT YELLOW PATCH CABLES

2 EXISTING IDF L RACK DETAIL  
L4.13 1/2"=1'-0"

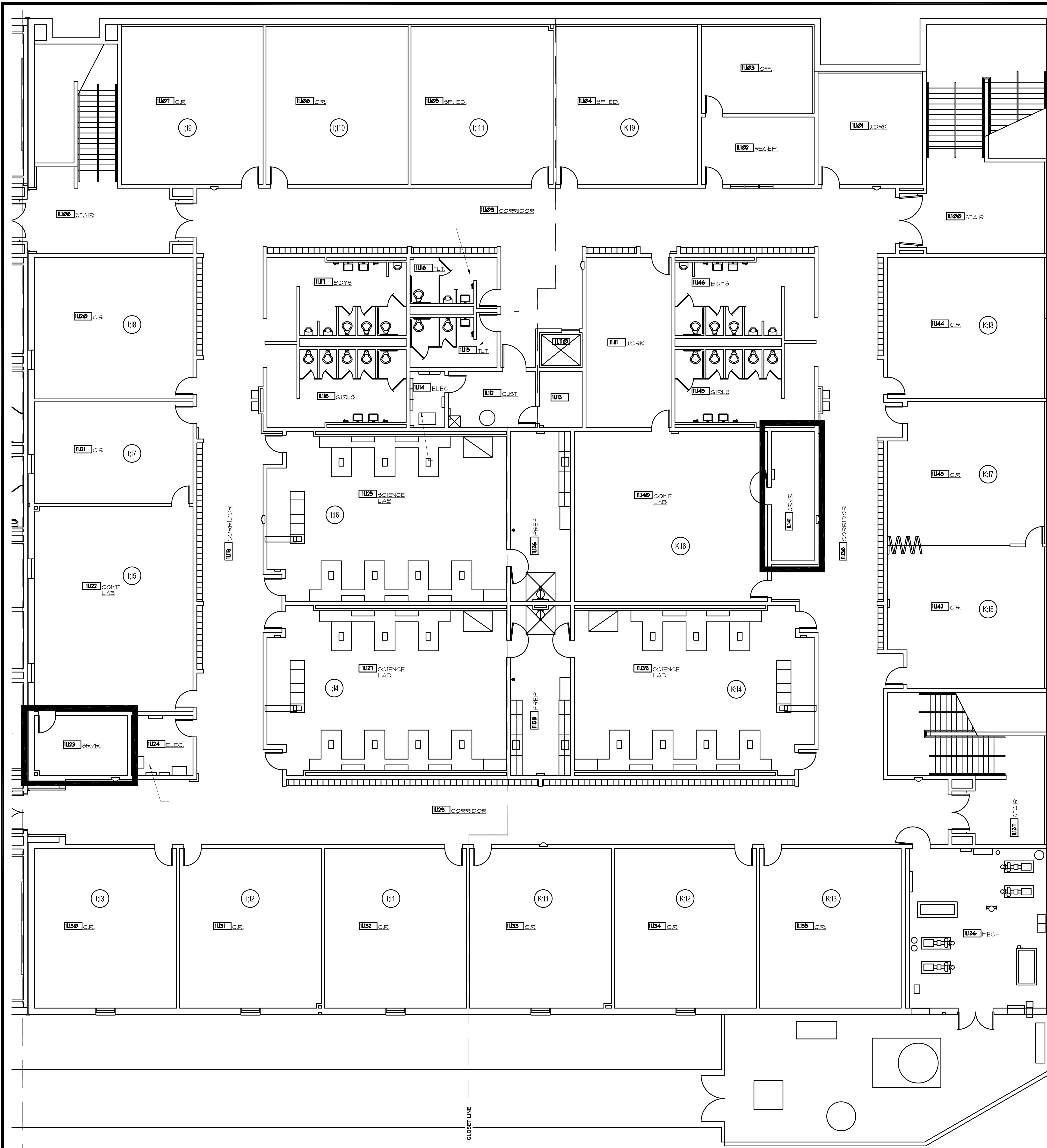


INTERCOM DATA DEVICES AND CABLING LABEL DETAILS

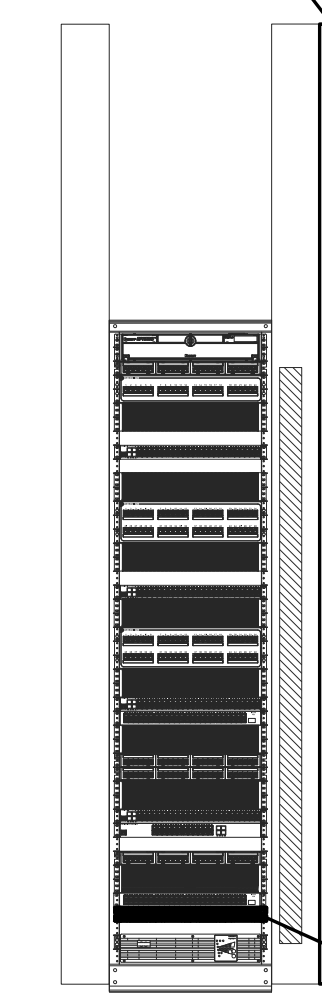
3 LABELING SCHEME FOR INTERCOM  
L4.13 NTS



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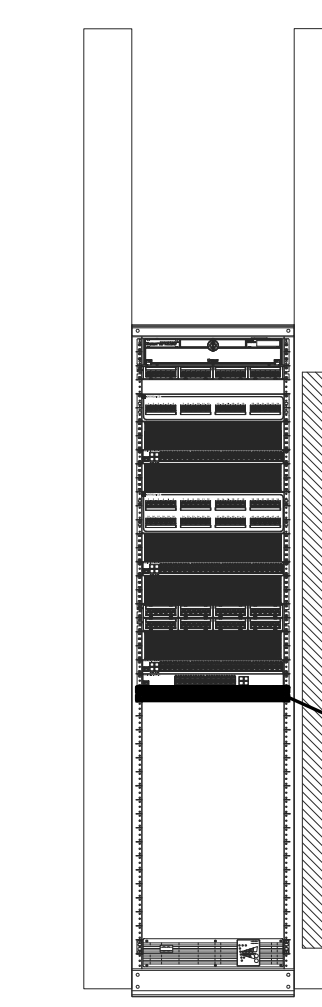
MOUNT WIREMOLD ALA3800 TO EXISTING WIREMOLD.  
RUN INTO CEILING SPACE.  
USE THIS AS A VERTICAL WIRE MANAGER.



INTERCOM PANEL. INSTALL  
NEW 24  
PORT PATCH PANEL.  
PROVIDE YELLOW CAT6e  
JACKS. PROVIDE 1FT  
YELLOW PATCH CABLES

2 EXISTING IDF I RACK DETAIL  
L4.14 1/2"=1'-0"

MOUNT WIREMOLD ALA3800 TO EXISTING WIREMOLD.  
RUN INTO CEILING SPACE.  
USE THIS AS A VERTICAL WIRE MANAGER.



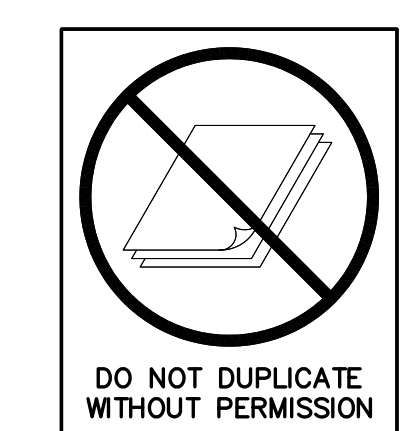
INTERCOM PANEL. INSTALL  
NEW 24  
PORT PATCH PANEL.  
PROVIDE YELLOW CAT6e  
JACKS. PROVIDE 1FT  
YELLOW PATCH CABLES

3 EXISTING IDF K RACK DETAIL  
L4.14 1/2"=1'-0"

1 IDF I & K INTERCOM CABLING  
L4.14 1/8"=1'-0"

GENERAL NOTES:

- PLACE INTERCOM DROPS IN THE CTR OF THE CLASSROOMS.
- DIV 27 TO INSTALL QTY 1 1/2" PENETRATION INTO EACH CLASSROOM FOR INTERCOM. FIRE CAULK AFTER CABLING IS COMPLETE.
- DIV 27 WILL PROVIDE & INSTALL J-HOOKS IN THE HALLWAY AND CLASSROOM FOR INTERCOM CABLING.
- DIV 27 WILL PROVIDE & INSTALL 2" PENETRATION INTO EACH IDF, FIRE CAULK AFTER CABLING IS COMPLETE.



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**L4.14**