LAKEWODD STORAGE

NE PORT DRIVE LEE'S SUMMIT, MO 64064

2018 International Building Code Analysis

12.16.2021

Moderate Hazardous Storage Occupancy Classification (311.2)

1 st Floor	Storage (S-1)	33,300 S.F.
1 st Floor	Office (B)	1,113 S.F.
2 nd Floor	Storage (S-1)	34,766 S.F.
3 rd Floor	Storage (S-1)	34,394 S.F.
Total Build		103,573 S.F.

*Occupant load (Table 1004.5)

Total Build	inσ	349
3 rd Floor	Storage: (1/300 gross merc/stor)	115
2 nd Floor	Storage: (1/300 gross merc/stor)	116
1 st Floor	Office: (1/150 gross business)	7
1 st Floor	Storage: (1/300 gross merc/stor)	111

Type II-B

None Required / None Provided

*Note: Bldg. 1 is 75% unoccupied space with the remainder being: Corridors, Electrical Room. Riser Room, Stairs/Elevator, etc.

**Toilet Count (Table 2902.1): Men: 1 Water Closet, 1 Lavatory Women: 1 Water Closet, 1 Lavatory General: Hi/Lo D.F., Service Sink

**Request for consideration to decrease the Occupant Load Count to an actual number of occupants for whom each occupied space, floor, or building is designed. The change in Occupancy Load Variance Request is driven solely by the Toilet Room Calculations.

Construction Type (Table 601):

Fire Alarms (907.1):

Height Allowed (Table 504.4: 3 stories allowed): 3 story provided

Floor Area Allowed (Table 506.2): 52,500 S.F. Allowable

Required / Provided Sprinkler System (903.2.9):

Standpipe System (905): Required / Provided

Fire Separation (Table 508.4): None Required / None Provided

None required/ None provided Rated Corridors (Table 1020.1):

Exiting (1022.1): Exits req. per floor: 2 Exits provided 2/floor min. (Table 1017.2): Exit Distance 250' allowable 60"width provided (1024.2): Exit width req. 44"

Fire Resistance Rating Exterior Walls (Table 602): None Required / None Provided DALLENBACH·COLE .ARCHITECTURE.....

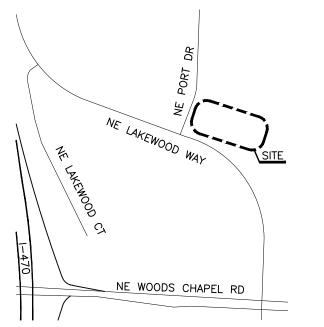


CIVIL ENGINEER / LANDSCAPE ARCHITECTS

SCHLAGEL ASSOCIATES PH: 913.492.5158 14920 W. 107TH STREET LENEXA, KS 66215

ARCHITECT

DALLENBACH - COLE ARCHITECTURE PH: 210.493.2234 315 NINTH STREET, STE. 1 SAN ANTONIO, TX 78215



LOCATION MAP

STRUCTURAL ENGINEER

FORCE ENGINERRING & TESTING PH: 281.540.6603 19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338

MEP ENGINEER

RSW CONSULTANTS PH:210.408.1860 FAX: 210.408.0273 12035 COLWICK, STE. 101 SAN ANTONIO, TX 78216

GENERAL NOTES:

- 1. THE GENERAL CONTRACTOR SHALL HAVE PARTIAL USE OF THE PREMISES FOR CONSTRUCTION OPERATIONS. CONFINE APPARATUS, OPERATIONS OF WORKMEN, AND STORAGE OF MATERIAL TO THE AREAS DEFINED BY THE OWNER.
- 2. ALL WORK SHALL BE PERFORMED TO COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL MECHANICAL CODE, 2017 NATIONAL ELECTRICAL CODE, 2018 INTERNATIONAL PLUMBING CODE, 2018 INTERNATIONAL FIRE CODE, ALL CITY ADOPTED AMENDMENTS, AND ANY OTHER APPLICABLE CODES AND BUILDING STANDARDS AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO.
- 3. THE CONTRACTOR AND OWNER SHALL BE RESPONSIBLE FOR FINAL MATERIAL AND PRODUCT SELECTIONS. THE CONSTRUCTION DOCUMENTS INDICATE GENERAL DESIGN INTENT BUT MAY NOT DEFINE ALL STANDARDS AND PRODUCTS REQUIRED FOR THE FULL PERFORMANCE AND CONSTRUCTION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR REVIEW AND APPROVAL OF SUBMITTALS AND SHOP DRAWINGS FROM THE SUBCONTRACTORS AND FOR COMPLIANCE WITH APPLICABLE INDUSTRY STANDARDS, CITY CODES, AND ORDINANCES. FOLLOWING CONTRACTOR APPROVAL OF SUBMITTALS AND SHOP DRAWINGS, SUBMITTAL TO OWNER FOR FINAL REVIEW IS REQUIRED.
- 4. COORDINATION OF SUBMITTALS FOR FABRICATION, PURCHASING, TESTING, DELIVERY, WITH OTHER SUBMITTALS AND RELATED CONSTRUCTION OPERATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. SUBMITTALS TO INCLUDE OUALITY CONTROL PROCEDURES, DESIGN DATA, CERTIFICATIONS, MANUFACTURER'S INSTRUCTIONS, AND WARRANTY INFORMATION (1 YEAR MINIMUM).
- 5. THE CONTRACTOR IS RESPONSIBLE FOR OVERSIGHT OF ALL PHASES OF THE PROJECT IN RELATION TO APPLICABLE INDUSTRY STANDARDS FOR THE MATERIALS AND PRODUCTS INCORPORATED INTO THE PROJECT.
- 6. THE GENERAL CONTRACTOR WITH OWNER TO COORDINATE ALL TESTING AND/OR INSPECTIONS WITH OWNER HIRED COMPANIES UNLESS NOTED OTHERWISE.
- 7. CONTRACTOR TO COORDINATE OVERHEAD DUCTWORK, CONDUIT, ETC. SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS FOR COORDINATION PURPOSES.
- 8. ALL DRAWINGS AND SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS. CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. ARE TO BE USED TOGETHER. ANY DISCREPANCIES BETWEEN THE DOCUMENTS OR EXISTING CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT FOR INTERPRETATION AND/ OR CLARIFICATION PRIOR TO PROCEEDING WITH ANY WORK RELATED TO THE DISCREPANCY.
- 9. NECESSARY FRAMING AND/OR BLOCKING IS REQUIRED FOR ALL WALL MOUNTED ITEMS. ALL WOOD PRODUCTS TO BE FIRE RETARDANT.
- 10. FIRE-RETARDANT-TREATED WOOD SHALL BE PERMITTED IN NON-BEARING PARTITIONS WHERE THE REO. FIRE-RESISTANCE RATING IS 2 HOURS OR LESS, NON BEARING EXTERIOR WALLS WHERE NO FIRE RATING IS REQ., AND ROOF CONSTRUCTION INCLUDING GIRDERS, TRUSSES, FRAMING AND DECKING PER IBC 603.1. FIRE-RETARDANT-TREATED WOOD TO COMPLY WITH IBC 2303.2 STANDARDS.
- 11. CONTRACTOR IS RESPONSIBLE FOR SAFETY, SECURITY AND PROTECTION OF EXISTING IMPROVEMENTS THROUGHOUT THE DURATION OF CONSTRUCTION.
- 12. ALL WORK TO BE PERFORMED IN COMPLIANCE WITH AIA DOCUMENT A201-2017 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION WHICH BECOMES PART OF THE CONTRACT DOCUMENTS FOR THIS
- 13. A GEOTECHNICAL REPORT WAS PREPARED FOR THIS PROJECT WHICH IS INCLUSIVE OF DESIGN RECOMMENDATIONS. ENGINEERING DESIGN WAS COMPLETED BASED ON THE GEOTECHNICAL DESIGN RECOMMENDATIONS AND A COPY OF THE GEOTECHNICAL REPORT CAN BE OBTAINED FROM THE OWNER FOR REFERENCE.

LIST OF DRAWINGS

COVER SHEET CIVIL DRAWINGS CO.O COVER SHEET C 1.0 SITE PLAN GRADING PLAN INTERSECTION DETAILS EROSION CONTROL PLAN EROSION CONTROL DETAILS STORM SEWER PLAN & PROFILE DETENTION BASIN PLAN & PROFILE UTILITY PLAN SITE DETAILS SITE DETAILS SITE DETAILS SITE DETAILS LANDSCAPING PLAN L1.0 LANDSCAPE DETAILS L2.0 L2.1 LANDSCAPE DETAILS

A1.1 SITE PLAN A1.2 ROOF PLAN ROOF DETAILS 1ST FLOOR PLAN 2ND FLOOR PLAN 3RD FLOOR PLAN OFFICE PLAN & RCP ENLARGED PLANS A2.6 ADA & INT. ELEVATIONS ENLARGED PLANS A2.8 EGRESS PLANS EXTERIOR ELEVATIONS A3.2 EXTERIOR ELEVATIONS WALL SECTIONS A4.9 STAIR A SECTIONS A4.10 STAIR B SECTIONS A4.11 ELEV. A & B SECTIONS

ARCHITECTURE DRAWINGS

WDW/DOOR SCHEDULES A5.1 WINDOW TYPES A5.2 WINDOW DETAILS BUILDING DETAILS A6.1 BUILDING DETAILS BUILDING DETAILS BUILDING DETAILS BUILDING DETAILS SPECIFICATIONS

ARCHITECTURE DRAWINGS (CONT.)

STRUC	TURAL	DRAWIN	1 G S
50.0	REFER	COVER	SHEET

MEP DI	RAWINGS
MEP 1	SITE PLAN
M 1.1	1ST FLOOR MECHANICAL
M1.2	2ND FLOOR MECHANICAL
M1.3	3RD FLOOR MECHANICAL
M1.4	OFFICE MECHANICAL
M1.5	ROOF MECHANICAL
M2.1	MECHANICAL SCHEDULES
M3.1	MECHANICAL SPECIFICATIONS
E1.1	1ST FLOOR LIGHTING
E1.2	2ND FLOOR LIGHTING
E1.3	3RD FLOOR LIGHTING
E1.4	OFFICE LIGHTING
E2.1	1ST FLOOR POWER
E2.2	2ND FLOOR POWER
E2.3	3RD FLOOR POWER
E2.4	OFFICE POWER
E2.5	ROOF POWER
E3.1	
E3.2	ELECTRICAL SCHEDULES
E4.1	ELECTRICAL SPECIFICATIONS
P1.1	
P1.2	2ND FLOOR PLUMBING
P1.3	3RD FLOOR PLUMBING
P1.4	OFFICE PLUMBING
P2.1	PLUMBING SCHEDULES
	PLUMBING RISERS
P2.3	PLUMBING RISERS

SITE PLAN LEGEND

————— BUFFERS/ EASEMENTS

— · — PROPERTY LINES

6'-0" HIGH, ORNAMENTAL IRON FENCE

LARGE STONE BORDER -REF. CIVIL DRAWINGS

LANDSCAPE AREA

AS SCHEDULED

IRON MAN GATE ELEVATIONS

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

—EXPANDED METAL

SITE PLAN NOTES

-REF. LANDSCAPE DRAWINGS

KNOX BOX - MODEL #3261 PER CITY REQUIREMENTS

. REFER CIVIL DRAWINGS FOR RECORDED PLAT/SURVEY FOR PROPERTY

BOUNDARIES, EASEMENTS, SETBACKS, ETC. REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO CONSTRUCTION.

2. REFER CIVIL DRAWINGS FOR ALL DRIVE, PARKING, AND CURB LOCATIONS, DETAILS, AND DIMENSIONAL INFORMATION.

5. REFER LANDSCAPE DRAWINGS FOR EXTENTS OF REQUIRED LANDSCAPING.

6. SECURITY CONTRACTOR TO PROVIDE MANUAL FAIL SAFE OPERATION, KEY BOX, AND 20'-0" GATE OPENING FOR ELECTRICAL GATE PER FIRE MARSHALL REQUIREMENTS.

2" (HINGE CLEARANCE)

1¾" TOP RAIL

—2" SQUARE TUBE GATE

UPRIGHT

WELD ON BOX HINGE

-PROVIDE SMOOTH SURFACE 10" ABOVE THE FINISH

FLOOR OR GROUND ON

FULL WIDTH OF THE

DOOR/GATE

PUSH SIDE EXTENDING THE

4. PROVIDE CONCRETE FILLED STEEL TUBE BOLLARD AT BUILDING CORNERS AND BUILDING ENTRIES AT DRIVE AREAS (REF. DETAIL 2/A1.1 FOR LOCATIONS, CIVIL

CONCRETE PAVING -REF. CIVIL DWGS.

6" STEEL PIPE BOLLARD -REF. 2/A1.1

4" STRIPES PAINTED ON PAVING AT 2'-0" O.C.

PROJECT NO. 2035

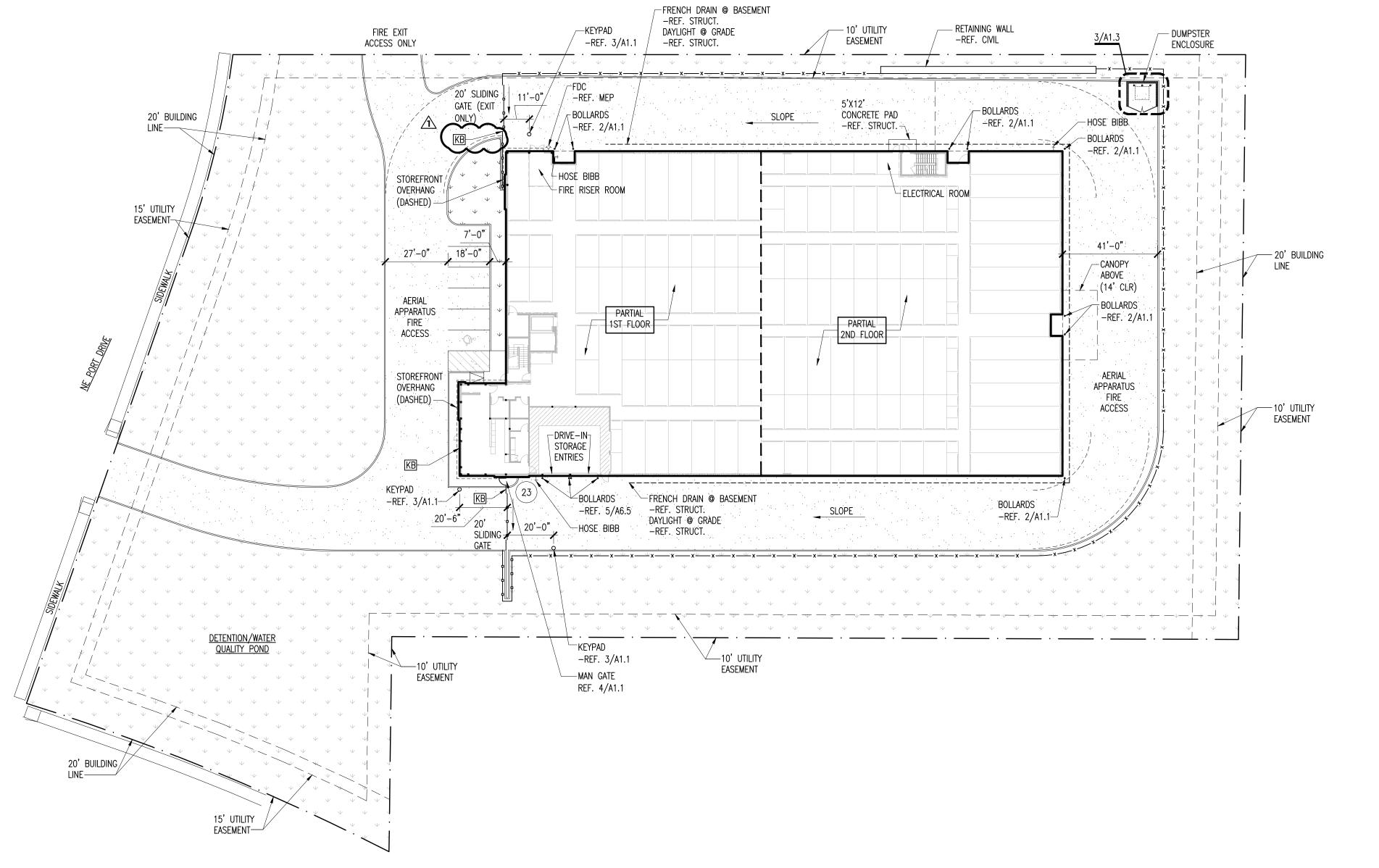
DATE: 12.16.2021 DRAWN:

REVISIONS: A CITY COMMENTS

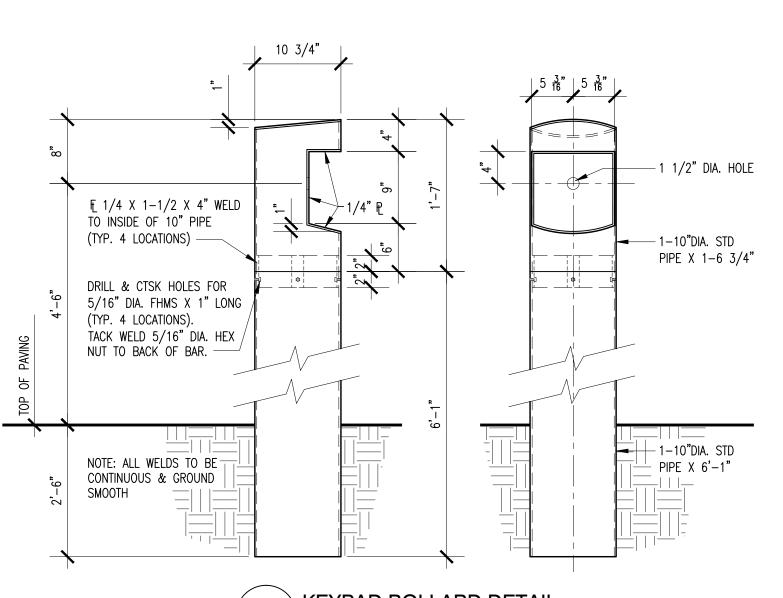
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SITE PLAN

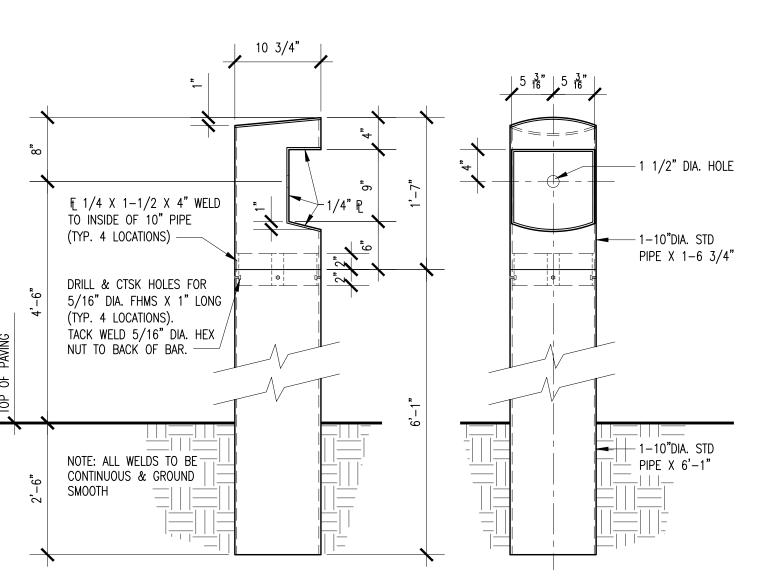
SHEET NO.



— 1 1/2" DIA. HOLE F_ 1/4 X 1−1/2 X 4" WELD TO INSIDE OF 10" PIPE (TYP. 4 LOCATIONS) — — 1-10"DIA. STD PIPE X 1-6 3/4" DRILL & CTSK HOLES FOR 5/16" DIA. FHMS X 1" LONG / (TYP. 4 LOCATIONS). TACK WELD 5/16" DIA. HEX / NUT TO BACK OF BAR. 1-10"DIA. STD NOTE: ALL WELDS TO BE-- PIPE X 6'-1" CONTINUOUS & GROUND SMOOTH



6" BOLLARD TYP. @
BUILDING CORNERS
& ENTRY ALCOVES BOLLARD DETAIL SCALE: 1/2" = 1'-0"



KEYPAD BOLLARD DETAIL

TRUE PLAN NORTH NORTH

NOTE: PROVIDE KEY LOCK ON OUTSIDE OF GATE & FREE EXIT ON INSIDE OF MAN GATE AT MAIN ENTRY. 1'-6" RADIUS OF EXPANDED METAL W/ SAME FINISH AS GATE TO BE PROVIDED AT LATCH. PROVIDE 5"-7" WELDED. HINGES.

PROJECT NO. 2035

DATE: 12.16.2021

DRAWN:

REVISIONS:

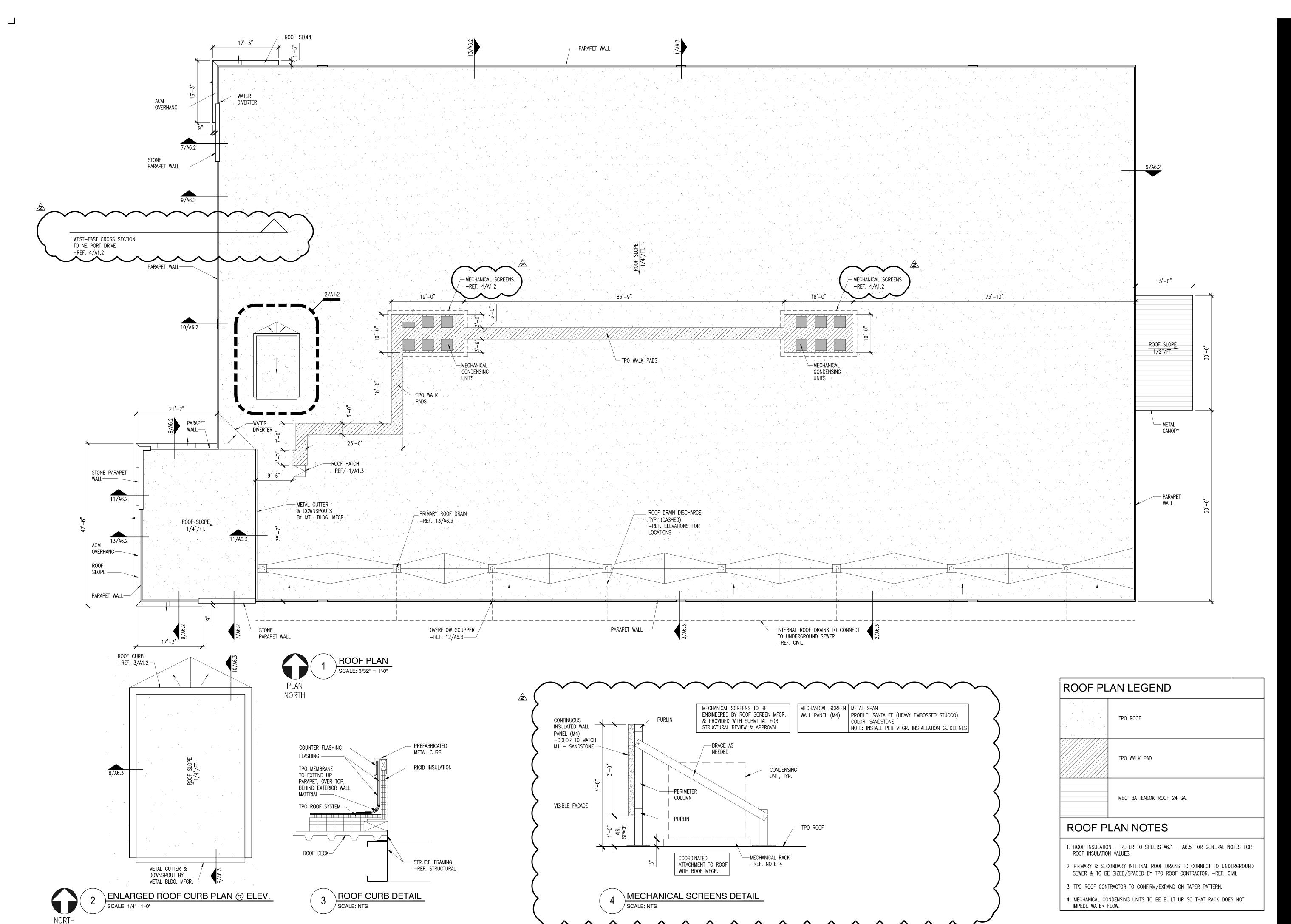
01.20.2022 CITY COMMENTS 03.17.2022

ROOF

PLAN

SHEET NO.

A1.2



RELEASED FOR

DATE: 12.16.2021

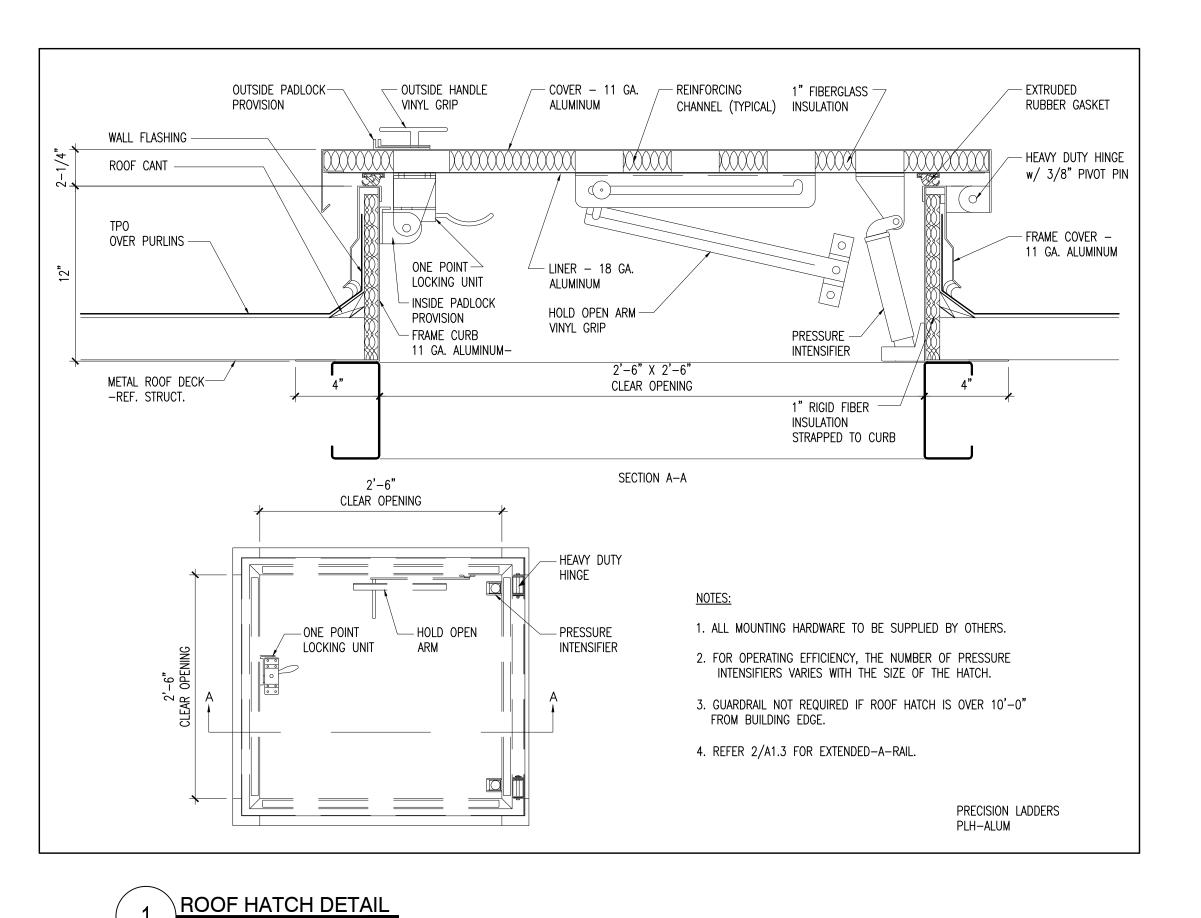
DRAWN:

REVISIONS:

CITY COMMENTS 01.20.2022

ROOF DETAILS

SHEET NO.



6'-0"

HOLD DOWN PINS

TO KEEP GATES CLOSED -

6**'**-0"

-VERTICAL

PANEL FILLER

REF. A7.1—

DUMPSTER GATE ELEVATION

13'-4"

NOTE: CONTRACTOR

TO VERIFY DUMPSTER

12'-0"

DUMPSTER ENCLOSURE

 igsel concrete PAD $_{\! o}$

 \perp SWING DOORS W/

-REF. A7.1

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

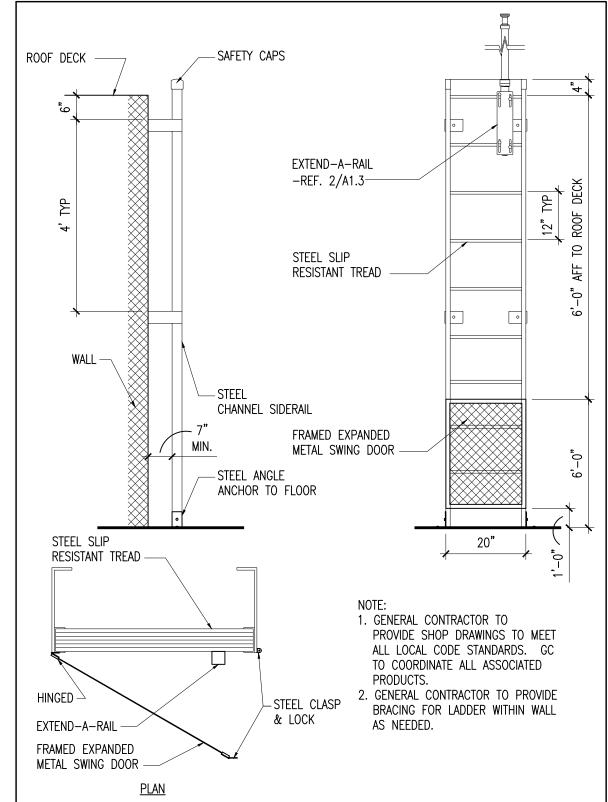
STRUCTURAL FRÁME

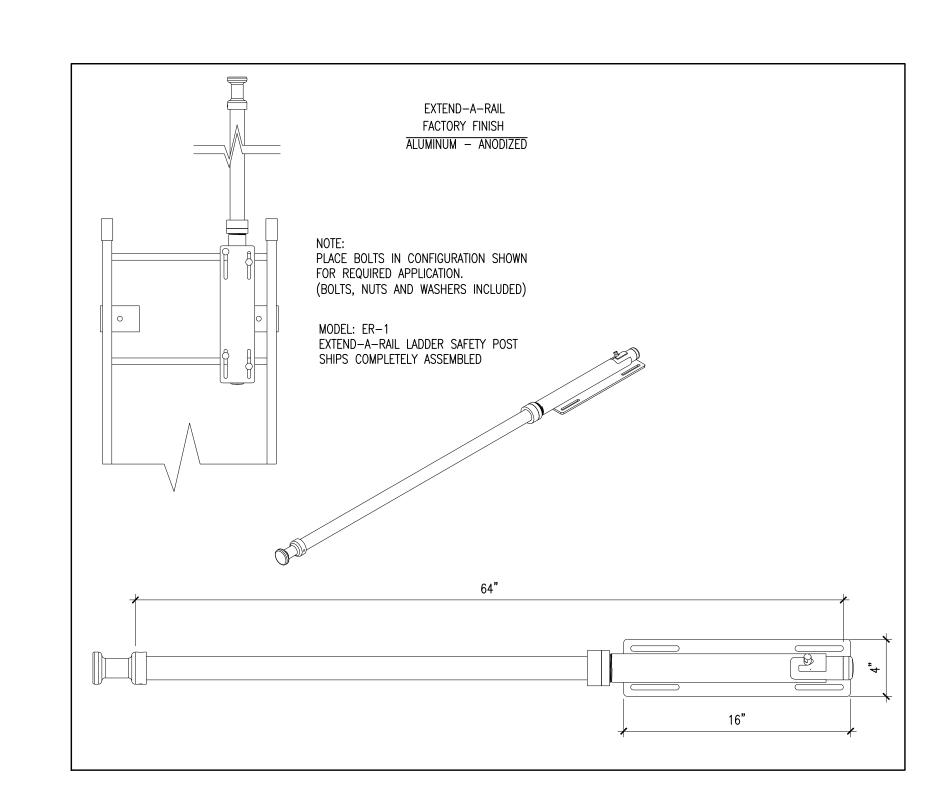
SIZE W/ OWNER PRIOR TO CONSTRUCTING

6" STEEL PIPE BOLLARD

FILLED W/ CONCRETE

-REF. CIVIL----





UL# U419

METAL STUD UL FIRE DETAIL (FIRE RISER RM)

FLOOR AND CEILING RUNNERS

LATERAL SUPPORT MEMBERS

JOINT TAPE AND COMPOUND

NOTE: FASTENERS / SCREW PATTERNS:

5D: GYPSUM BOARD - 5/8" IN. THICK, 48 IN. WIDE,

6: FASTENERS - FOR USE WITH ITEMS 2 AND 2F -

TYPE S OR S-12 STEEL SCREWS USED TO ATTACH PANELS

SINGLE LAYER SYSTEM: 1 IN. LONG FOR 1/2 AND 5/8 IN.

DESCRIBED IN ITEM 6. FOR USE WITH ITEMS 1 AND 2 ONLY.

APPLIED VERTICALLY OR HORIZONTALLY. SECURED AS

TO STUDS (ITEM 2) OR FURRING CHANNELS (ITEM 7).

THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK

PANELS, SPACES 8 IN. OC WHEN PANELS ARE APPLIED

HORIZONTALLY, 8 IN. OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD WHEN PANELS ARE

STEEL STUDS

APPLIED VERTICALLY.

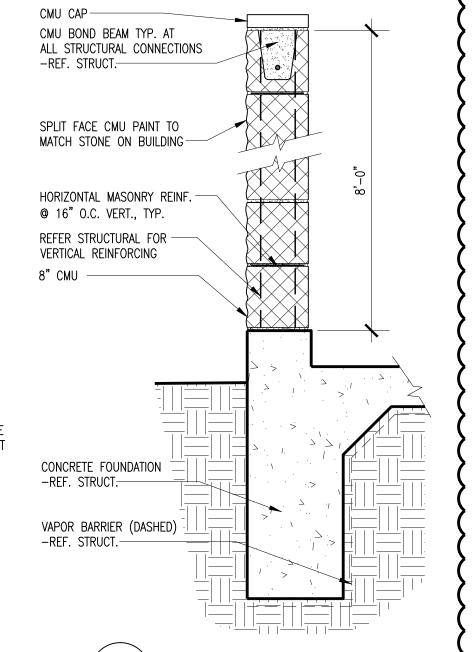
GYPSUM BOARD

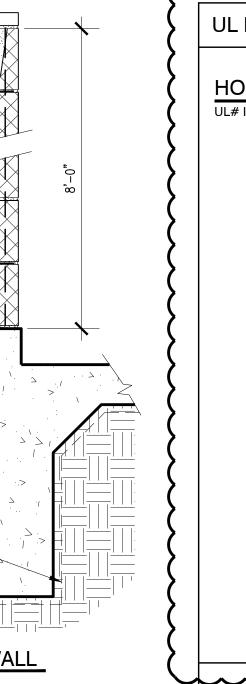
BATTS AND BLANKETS

7. CAULKING AND SEALANTS

1-HOUR FIRE RATING REQUIRED

ROOF LADDER DETAIL
SCALE: 1/2"=1'-0"





DUMPSTER WALL

—SPLIT FACE CMU, PAINT

UL FIRE RATED ASSEMBLIES

HORIZONTAL ASSEMBLY UL FIRE DETAIL (ELEV. MACH. RM & FIRE RISER RM) 1-HOUR FIRE RATING REQUIRED

SUPPORTING STRUCTURE 1

SUPPORTING STRUCTURE 2 HANGER WIRE C-CHANNELS 5. STEEL STUDS

6. STEEL STRAP 7. 3 LAYERS 5/8" TYPE 'X' GYPSUM BOARD NOTE: GYPSUM BOARD:

7: THREE LAYERS OF NOM. 5/8 IN. THICK GYPSUM BOARD INSTALLED WITH LONG DIMENSION PERPENDICULAR TO THE STEEL STUDS OR FRAMING MEMBERS. BASE SECURED TO STUDS AND PERIMETER CHANNELS WITH 1 IN. LONG TYPE S STEEL SCREWS SPACED MAX 16 IN. OC. MIDDLE LAYER SECURED TO THE STUDS OR FRAMING FROM BASE LAYER JOINTS. FACE LAYER SECURED TO THE STUDS OR FRAMING MEMBERS AND PERIMETER SUPPORTS WITH 2-1/4 LONG TYPE S STEEL SPACED MAX. 12 IN. OC. FACE LAYER EDGE AND END JOINTS STAGGERED A MIN. 16 IN. FROM MIDDLE LAYER JOINTS. NATIONAL GYPSUM CO - TYPE FSW

1-HOUR FIRE RATING REQUIRED

CMU WALL UL FIRE DETAIL (STAIR, ELEV., & MACH. RM.)

CONCRETE BLOCKS MORTAR

UL# U905

PORTLAND CEMENT STUCCO OR GYPSUM PLASTER

4. LOOSÉ MASONRY FILL

5. FOAMED PLASTIC (OPTIONAL)

SCALE: 1"=1'-0"

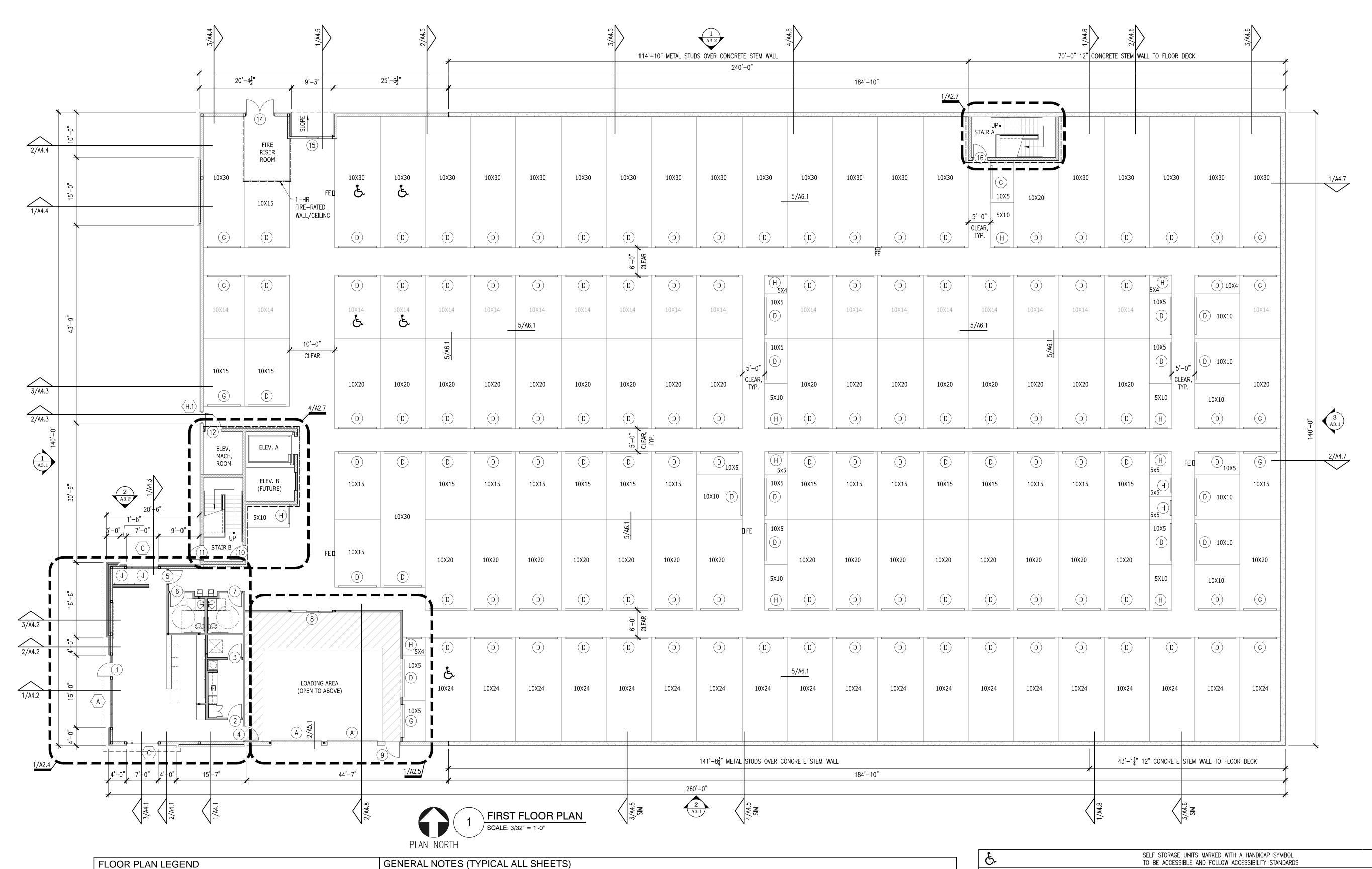
SAFTEY HANDRAIL DETAIL

DATE: 12.16.2021 DRAWN:

REVISIONS:

1ST FLOOR PLAN

SHEET NO.



 	\
METAL PARTITION SYSTEM (CORRIDOR SIDE OF PARTITION EXCEPT WHERE NOTED OTHERWISE) HALLWAYS TO BE JANUS CORRUGATED METAL PARTITIONS TYPREFER DETAIL 5/A6.1	INTERIOR AND EXTERIOR STO PROVIDED AND INSTALLED BY SENERAL CONTRACTOR TO C
EXTERIOR SHEATHING OVER METAL STUDS -REF. ELEVATIONS SHEET FOR EXTENTS OF EXTERIOR FINISHES.	3. ROOF PANELS TO BE 60 MI
GYP. BD. ON METAL STUD FRAMING -REFER PARTITION TYPES, SHEET A6.1	BY METAL BUILDING MANUFA 4. GENERAL CONTRACTOR/TPO
 1-HOUR FIRE-RATED WALL @ STAIRS, ELEVATOR, AND FIRE RISER ROOM	REQUIRED TO MEET LOCAL F CONTRACTOR TO COORDINATE
 12" CONCRETE STEM WALL	5. GENERAL CONTRACTOR IS TO
 INSULATED METAL PARTITION SYSTEM REFER TO DETAIL SHEET 4/A6.1	SELECTION OF ALL COLORS 6. ALL EXTERIOR WALL DIMENSI FLOOR EXTERIOR WALL DIMEN OUTER FACE OF MATERIAL U 7. NOT USED.

- GENERAL NOTES (TYPICAL ALL SHEETS) TORAGE UNIT SIGNAGE TO BE APPROVED BY OWNER. SIGNAGE TO BE BY GENERAL CONTRACTOR. COORDINATE ALL FOUNDATION PENETRATIONS WITH STRUCTURAL ENGINEER.
- MIL TPO ROOF TO MEET LOCAL WIND LOAD REQUIREMENTS ENGINEERED FACTURER.
- ROOFING SUBCONTRACTOR TO SIZE/SPACE INTERNAL ROOF DRAINS AS REQUIREMENTS. SECONDARY ROOF DRAINS TO BE PROVIDED. GENERAL ATE CONNECTION TO UNDERGROUND STORM DRAIN.
- TO SUBMIT ALL SAMPLES OF PRODUCTS, ETC. TO OWNER FOR APPROVAL/ RS, FINISHES, ETC. PRIOR TO PURCHASE AND INSTALLATION
- ISIONS ARE TO FOUNDATION (INCL. LUG) UNLESS NOTED OTHERWISE. 3RD MENSIONS ARE TO FINISH MATÈRIAL. ALL' INTERIOR DIMENSIONS ARE TO USED UNLESS NOTED OTHERWISE.
 - ASSEMBLES, SHEET A1.3
 - 14. GENERAL CONTRACTOR TO COORDINATE STANDPIPE/FIRE SPRINKLER DESIGN WITH ROOM SIZE AND CONFIGURATION.
- 8. PROVIDE & INSTALL FIRE EXTINGUISHERS (FE) WALL CABINETS. RECESS CABINETS @ 48" A.F.F. RECESSED, FLUSH WITH WALL AT ALL INTERIOR APPLICATIONS. MOUNT TO PIERS, 48" A.F.F. IN HEAVY DUTY OUTDOORS FIRE EXTINGUISHER CABINET AT ALL EXTERIOR APPLICATIONS. LOCATE ONE CLASS 2-A FIRE EXTINGUISHER SO THAT MAX. TRAVEL DISTANCE IS 75 L.F. W/ A MINIMUM OF 1 FOR EVERY 11,250 S.F. PER TABLE 906.3(1) OF THE 2015 INTERNATIONAL FIRE CODE OR AS DIRECTED BY LOCAL AUTHORITIES HAVING JURISDICTION. (KEYED ON FLOOR PLANS) FURR OUT WALL AT FE LOCATIONS W/ 6" METAL STUDS AND METAL WALL PANEL EACH SIDE.
- 9. FLOOR FINISH CONCRETE TO BE POLISHED CONCRETE IN CORRIDORS ONLY. (EXCLUDING STORAGE UNITS)
- 10. BUILDING MUST COMPLY W/ LOCAL AMERICAN W/ DISABILITIES ACT -REF. SHEET A2.6
- 11. FURR OUT WALL IN ELECTRICAL ROOMS TO RECESS ELECTRICAL PANEL.
- 12. ALL INTERIOR CMU TO BE PAINTED SW PRO CLASSIC B31 SERIES PAINT EXCLUDING INSIDE OF INDIVIDUAL STORAGE UNITS. ALL CMU INSIDE INDIVIDUAL STORAGE UNITS NOT TO BE PAINTED OR SEALED.
 - 13. FIRE RISER ROOM TO HAVE 1-HR FIRE-RATED WALLS AND CEILING. REFER UL FIRE-RATED

TABLE 225.3	
TOTAL SPACES IN FACILITY	MINIMUM NUMBER OF SPACES REQUIRED TO BE ACCESSIBLE
1 TO 200	5%, BUT NOT LESS THAN 1
201 AND OVER	10, PLUS 2% OF THE TOTAL NUMBER OF UNITS OVER 200
SECTION 225.3.1 DISPERSION.	
ARE PROVIDED THAN THE NUMBER REQUIRED TO BE ACCESS	ERSED THROUGHOUT THE VARIOUS CLASSES OF SPACES PROVIDED. WHERE MORE CLASSES OF SPACES SIBLE, THE NUMBER OF SPACES SHALL NOT BE REQUIRED TO EXCEED THAT REQUIRED BY TABLE 225.3. 25.3 SHALL NOT BE REQUIRED TO BE DISPERSED AMONG BUILDINGS IN A MULTI-BUILDING FACILITY.
ACCESSIBLE UNITS MUST MEET THE FOLLOWING CRITERIA:	
403.3 ACCESSIBLE ROUTE	THE RUNNING SLOPE OF WALKING SURFACES NOT STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
404.2.5 THRESHOLDS	1/2" HIGH MAXIMUM
404.2.7 DOOR HARDWARE	OPERABLE PARTS OF HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE FINISHED FLOOR OR GROUND
404.2.9 DOOR OPENING FORCE	5 POUNDS MAXIMUM
ACCESSIBLE UNITS MUST ALSO PROVIDE ACCESSIBLE ROUTE (TOILET ROOMS, DRINKING FOUNTAINS, ETC.).	S TO ACCESSIBLE MEANS OF EGRESS, PARKING SPACES, AND COMMON USE ELEMENTS & FACILITIES
PROVIDE JANUS ADA KIT (THREE STRAPS AND ACCESSIBLE S	SIGN) -JANUS TO INSTALL
ADA CALCULATIONS:	

 $\frac{-200 \text{ UNITS}}{390 \text{ UNITS } \text{ X}}$.02 = 7.8 SPACES + 10 SPACES = 18 SPACES REQUIRED

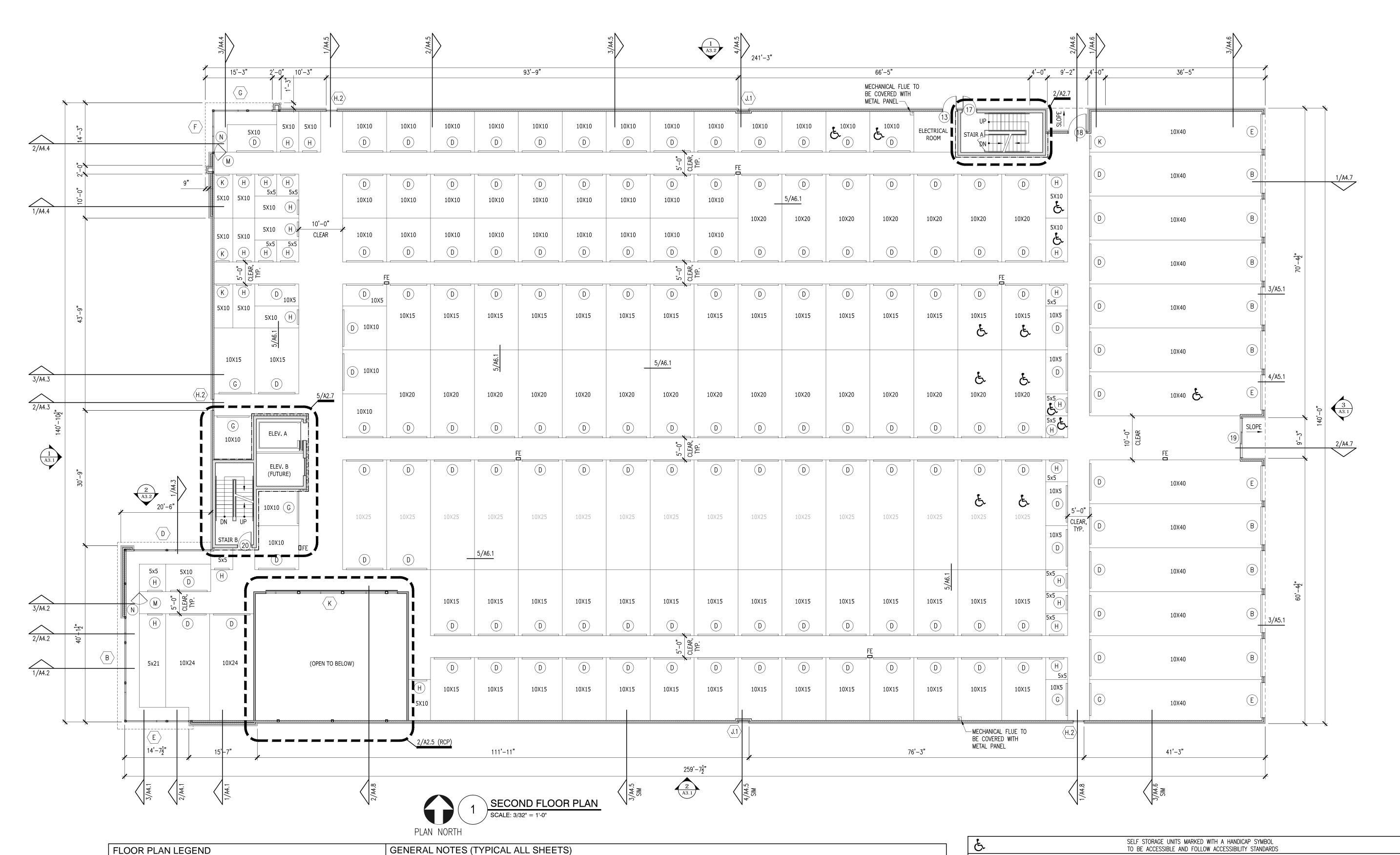
DATE: 12.16.2021

DRAWN:

REVISIONS:

2ND FLOOR PLAN

SHEET NO.



		<u> </u>
	METAL PARTITION SYSTEM (CORRIDOR SIDE OF PARTITION EXCEPT WHERE NOTED OTHERWISE) HALLWAYS TO BE JANUS CORRUGATED METAL PARTITIONS TYPREFER DETAIL 5/A6.1	INTERIOR AND EX PROVIDED AND IN CENERAL CONTRA
	EXTERIOR SHEATHING OVER METAL STUDS -REF. ELEVATIONS SHEET FOR EXTENTS OF EXTERIOR FINISHES.	3. ROOF PANELS TO
	GYP. BD. ON METAL STUD FRAMING -REFER PARTITION TYPES, SHEET A6.1	BY METAL BUILDIN 4. GENERAL CONTRA
	1-HOUR FIRE-RATED WALL @ STAIRS, ELEVATOR, AND FIRE RISER ROOM	REQUIRED TO MEI CONTRACTOR TO
	12" CONCRETE STEM WALL	5. GENERAL CONTRA
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	INSULATED METAL PARTITION SYSTEM REFER TO DETAIL SHEET 4/A6.1	SELECTION OF A  6. ALL EXTERIOR WA FLOOR EXTERIOR OUTER FACE OF
		7. NOT USED.
		1

- GENERAL NOTES (TYPICAL ALL SHEETS) EXTERIOR STORAGE UNIT SIGNAGE TO BE APPROVED BY OWNER. SIGNAGE TO BE INSTALLED BY GENERAL CONTRACTOR. RACTOR TO COORDINATE ALL FOUNDATION PENETRATIONS WITH STRUCTURAL ENGINEER.
- TO BE 60 MIL TPO ROOF TO MEET LOCAL WIND LOAD REQUIREMENTS ENGINEERED DING MANUFACTURER.
- RACTOR/TPO ROOFING SUBCONTRACTOR TO SIZE/SPACE INTERNAL ROOF DRAINS AS MEET LOCAL REQUIREMENTS. SECONDARY ROOF DRAINS TO BE PROVIDED. GENERAL COORDINATE CONNECTION TO UNDERGROUND STORM DRAIN.
- RACTOR IS TO SUBMIT ALL SAMPLES OF PRODUCTS, ETC. TO OWNER FOR APPROVAL/ ALL COLORS, FINISHES, ETC. PRIOR TO PURCHASE AND INSTALLATION
- WALL DIMENSIONS ARE TO FOUNDATION (INCL. LUG) UNLESS NOTED OTHERWISE. 3RD R WALL DIMENSIONS ARE TO FINISH MATERIAL. ALL INTERIOR DIMENSIONS ARE TO MATERIAL USED UNLESS NOTED OTHERWISE.
  - ASSEMBLES, SHEET A1.3
    - 14. GENERAL CONTRACTOR TO COORDINATE STANDPIPE/FIRE SPRINKLER DESIGN WITH ROOM SIZE AND CONFIGURATION.
- 8. PROVIDE & INSTALL FIRE EXTINGUISHERS (FE) WALL CABINETS. RECESS CABINETS @ 48" A.F.F. RECESSED, FLUSH WITH WALL AT ALL INTERIOR APPLICATIONS. MOUNT TO PIERS, 48" A.F.F. IN HEAVY DUTY OUTDOORS FIRE EXTINGUISHER CABINET AT ALL EXTERIOR APPLICATIONS. LOCATE ONE CLASS 2-A FIRE EXTINGUISHER SO THAT MAX. TRAVEL DISTANCE IS 75 L.F. W/ A MINIMUM OF 1 FOR EVERY 11,250 S.F. PER TABLE 906.3(1) OF THE 2015 INTERNATIONAL FIRE CODE OR AS DIRECTED BY LOCAL AUTHORITIES HAVING JURISDICTION. (KEYED ON FLOOR PLANS) FURR OUT WALL AT FE LOCATIONS W/ 6" METAL STUDS AND METAL WALL PANEL EACH SIDE.
- 9. FLOOR FINISH CONCRETE TO BE POLISHED CONCRETE IN CORRIDORS ONLY. (EXCLUDING STORAGE UNITS)
- 10. BUILDING MUST COMPLY W/ LOCAL AMERICAN W/ DISABILITIES ACT -REF. SHEET A2.6
- 11. FURR OUT WALL IN ELECTRICAL ROOMS TO RECESS ELECTRICAL PANEL.
- 12. ALL INTERIOR CMU TO BE PAINTED SW PRO CLASSIC B31 SERIES PAINT EXCLUDING INSIDE OF INDIVIDUAL STORAGE UNITS. ALL CMU INSIDE INDIVIDUAL STORAGE UNITS NOT TO BE PAINTED OR SEALED.
  - 13. FIRE RISER ROOM TO HAVE 1-HR FIRE-RATED WALLS AND CEILING. REFER UL FIRE-RATED

1 TO 200	5%, BUT NOT LESS THAN 1				
201 AND OVER	10, PLUS 2% OF THE TOTAL NUMBER OF UNITS OVER 200				
SECTION 225.3.1 DISPERSION.					
INDIVIDUAL SELF-SERVICE STORAGE SPACES SHALL BE DISPERSED THROUGHOUT THE VARIOUS CLASSES OF SPACES PROVIDED. WHERE MORE CLASSES OF SPACES ARE PROVIDED THAN THE NUMBER REQUIRED TO BE ACCESSIBLE, THE NUMBER OF SPACES SHALL NOT BE REQUIRED TO EXCEED THAT REQUIRED BY TABLE 225.3 SELF-SERVICE STORAGE SPACES COMPLYING WITH TABLE 225.3 SHALL NOT BE REQUIRED TO BE DISPERSED AMONG BUILDINGS IN A MULTI-BUILDING FACILITY.					
ACCESSIBLE UNITS MUST MEET THE FOLLOWING CRITERIA:					
403.3 ACCESSIBLE ROUTE  THE RUNNING SLOPE OF WALKING SURFACES NOT STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.					
404.2.5 THRESHOLDS	1/2" HIGH MAXIMUM				
404.2.7 DOOR HARDWARE	OPERABLE PARTS OF HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE FINISHED FLOOR OR GROUND				
404.2.9 DOOR OPENING FORCE	5 POUNDS MAXIMUM				
ACCESSIBLE UNITS MUST ALSO PROVIDE ACCESSIBLE ROUTES TO ACCESSIBLE MEANS OF EGRESS, PARKING SPACES, AND COMMON USE ELEMENTS & FACILITIES (TOILET ROOMS, DRINKING FOUNTAINS, ETC.).					
PROVIDE JANUS ADA KIT (THREE STRAPS AND ACCESSIBLE SIGN) -JANUS TO INSTALL					
ADA CALCULATIONS:  590 UNITS  -200 UNITS  390 UNITS X .02 = 7.8 SPACES + 10 SPACES = 18 SPACES REQUIRED					

MINIMUM NUMBER OF SPACES REQUIRED TO BE ACCESSIBLE

TOTAL SPACES IN FACILITY

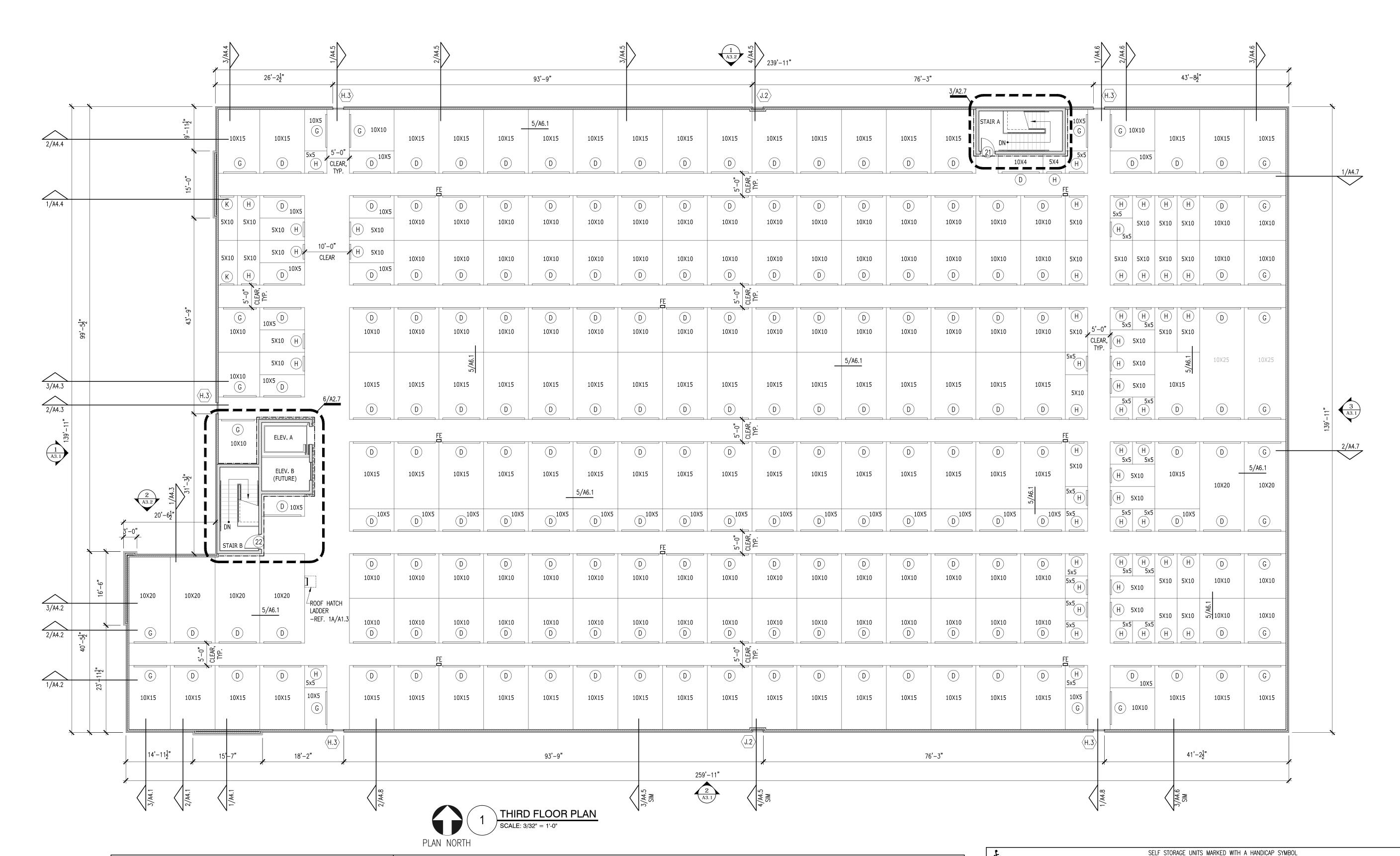
DATE: 12.16.2021

DRAWN:

REVISIONS:

3RD FLOOR PLAN

SHEET NO.



FLOOR PLAN LEGEND	GEN
METAL PARTITION SYSTEM (CORRIDOR SIDE OF PARTITION EXCEPT WHERE NOTED OTHERWISE) HALLWAYS TO BE JANUS CORRUGATED METAL PARTITIONS TYP. –REFER DETAIL 5/A6.1	1. IN PR
EXTERIOR SHEATHING OVER METAL STUDS  -REF. ELEVATIONS SHEET FOR EXTERIOR FINISHES.	3. RO
GYP. BD. ON METAL STUD FRAMING -REFER PARTITION TYPES, SHEET A6.1	4. GE
1-HOUR FIRE-RATED WALL @ STAIRS, ELEVATOR, AND FIRE RISER ROOM	RE CC
12" CONCRETE STEM WALL	5. GE
INSULATED METAL PARTITION SYSTEM REFER TO DETAIL SHEET 4/A6.1	6. AL
	FL ⁱ OU
	7. NO

GENERAL NOTES (TYPICAL ALL SHEETS) INTERIOR AND EXTERIOR STORAGE UNIT SIGNAGE TO BE APPROVED BY OWNER. SIGNAGE TO BE

PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE ALL FOUNDATION PENETRATIONS WITH STRUCTURAL ENGINEER.

ROOF PANELS TO BE 60 MIL TPO ROOF TO MEET LOCAL WIND LOAD REQUIREMENTS ENGINEERED BY METAL BUILDING MANUFACTURER.

GENERAL CONTRACTOR/TPO ROOFING SUBCONTRACTOR TO SIZE/SPACE INTERNAL ROOF DRAINS AS REQUIRED TO MEET LOCAL REQUIREMENTS. SECONDARY ROOF DRAINS TO BE PROVIDED. GENERAL CONTRACTOR TO COORDINATE CONNECTION TO UNDERGROUND STORM DRAIN.

GENERAL CONTRACTOR IS TO SUBMIT ALL SAMPLES OF PRODUCTS, ETC. TO OWNER FOR APPROVAL/ SELECTION OF ALL COLORS, FINISHES, ETC. PRIOR TO PURCHASE AND INSTALLATION

ALL EXTERIOR WALL DIMENSIONS ARE TO FOUNDATION (INCL. LUG) UNLESS NOTED OTHERWISE. 3RD FLOOR EXTERIOR WALL DIMENSIONS ARE TO FINISH MATERIAL. ALL INTERIOR DIMENSIONS ARE TO OUTER FACE OF MATERIAL USED UNLESS NOTED OTHERWISE.

NOT USED.

8. PROVIDE & INSTALL FIRE EXTINGUISHERS (FE) WALL CABINETS. RECESS CABINETS @ 48" A.F.F. RECESSED, FLUSH WITH WA 48" A.F.F. IN HEAVY DUTY LOCATE ONE CLASS 2-A W/ A MINIMUM OF 1 FOR FIRE CODE OR AS DIRECTE FURR OUT WALL AT FE LO

9. FLOOR FINISH CONCRETE TO (EXCLUDING STORAGE UNITS

10. BUILDING MUST COMPLY W

11. FURR OUT WALL IN ELECTF

12. ALL INTERIOR CMU TO BE INSIDE OF INDIVIDUAL STOR PAINTED OR SEALED.

13. FIRE RISER ROOM TO HAVE ASSEMBLES, SHEET A1.3

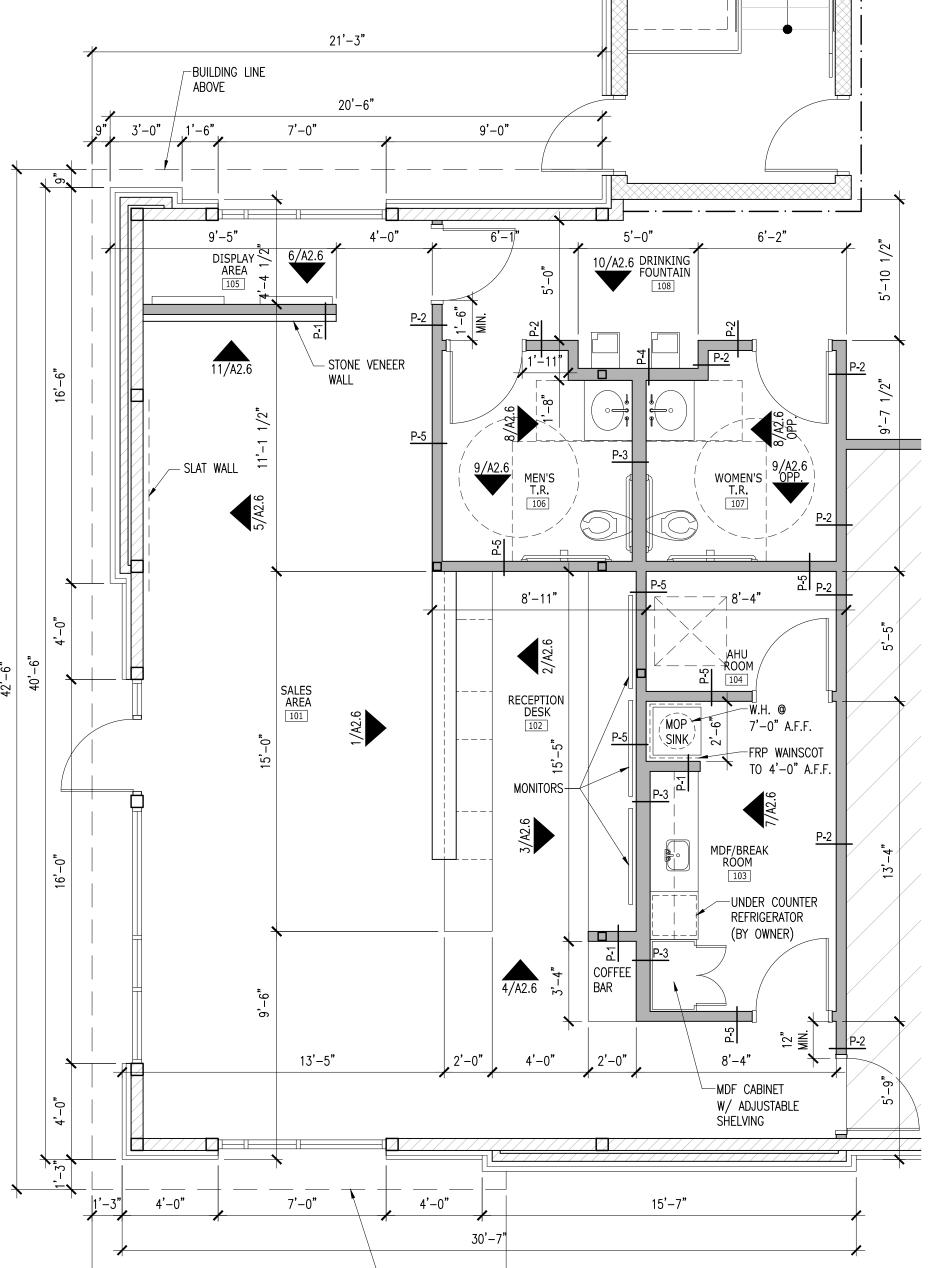
14. GENERAL CONTRACTOR TO COORDINATE STANDPIPE/FIRE SPRINKLER DESIGN WITH ROOM SIZE AND CONFIGURATION.

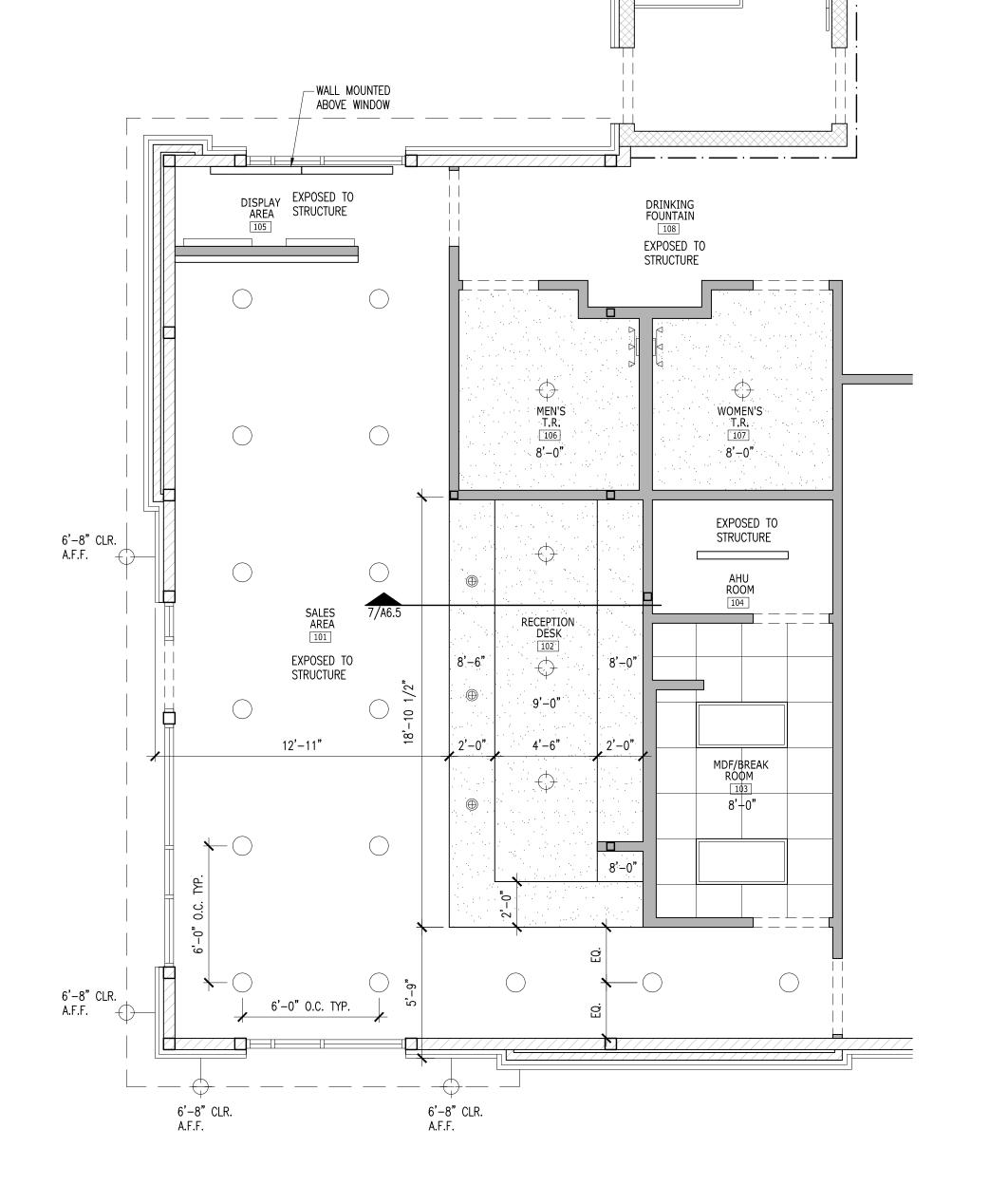
EXTINGUISHERS (FE) WALL CABINETS. RECESS CABINETS @ 48" A.F.F.	TOTAL SPACES IN FACILITY	MINIMUM NUMBER OF SPACES REQUIRED TO BE ACCESSIBLE
WALL AT ALL INTERIOR APPLICATIONS. MOUNT TO PIERS,	1 TO 200	5%, BUT NOT LESS THAN 1
JTY OUTDOORS FIRE EXTINGUISHER CABINET AT ALL EXTERIOR APPLICATIONS.  A FIRE EXTINGUISHER SO THAT MAX. TRAVEL DISTANCE IS 75 L.F.	201 AND OVER	10, PLUS 2% OF THE TOTAL NUMBER OF UNITS OVER 200
OR EVERY 11,250 S.F. PER TABLE 906.3(1) OF THE 2015 INTERNATIONAL	SECTION 225.3.1 DISPERSION.	
CTED BY LOCAL AUTHORITIES HAVING JURISDICTION. (KEYED ON FLOOR PLANS) LOCATIONS W/ 6" METAL STUDS AND METAL WALL PANEL EACH SIDE.  TO BE POLISHED CONCRETE IN CORRIDORS ONLY.	ARE PROVIDED THAN THE NUMBER REQUIRED TO BE ACCES	ERSED THROUGHOUT THE VARIOUS CLASSES OF SPACES PROVIDED. WHERE MORE CLASSES OF SPACES SIBLE, THE NUMBER OF SPACES SHALL NOT BE REQUIRED TO EXCEED THAT REQUIRED BY TABLE 225.3. 25.3 SHALL NOT BE REQUIRED TO BE DISPERSED AMONG BUILDINGS IN A MULTI-BUILDING FACILITY.
NITS)	ACCESSIBLE UNITS MUST MEET THE FOLLOWING CRITERIA:	
( W/ LOCAL AMERICAN W/ DISABILITIES ACT -REF. SHEET A2.6	403.3 ACCESSIBLE ROUTE	THE RUNNING SLOPE OF WALKING SURFACES NOT STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
	404.2.5 THRESHOLDS	1/2" HIGH MAXIMUM
CCTRICAL ROOMS TO RECESS ELECTRICAL PANEL.	404.2.7 DOOR HARDWARE	OPERABLE PARTS OF HARDWARE SHALL BE 34" MIN. AND 48" MAX. ABOVE FINISHED FLOOR OR GROUND
BE PAINTED SW PRO CLASSIC B31 SERIES PAINT EXCLUDING	404.2.9 DOOR OPENING FORCE	5 POUNDS MAXIMUM
TORAGE UNITS. ALL CMU INSIDE INDIVIDUAL STORAGE UNITS NOT TO BE	ACCESSIBLE UNITS MUST ALSO PROVIDE ACCESSIBLE ROUTE (TOILET ROOMS, DRINKING FOUNTAINS, ETC.).	S TO ACCESSIBLE MEANS OF EGRESS, PARKING SPACES, AND COMMON USE ELEMENTS & FACILITIES
IAVE 1-HR FIRE-RATED WALLS AND CEILING. REFER UL FIRE-RATED	PROVIDE JANUS ADA KIT (THREE STRAPS AND ACCESSIBLE S	SIGN) -JANUS TO INSTALL

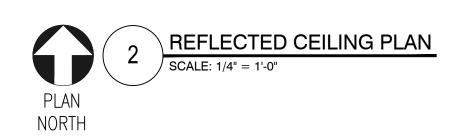
 $\frac{-200 \text{ UNITS}}{390 \text{ UNITS}}$  X .02 = 7.8 SPACES + 10 SPACES = 18 SPACES REQUIRED

ADA CALCULATIONS: 590 UNITS

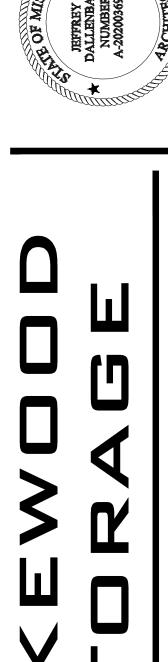
TO BE ACCESSIBLE AND FOLLOW ACCESSIBILITY STANDARDS







	2' X 2' OPEN GRID CEILING		VANITY LIGHT
	4' LED LIGHT	•	PENDANT LIGHT
	2' X 4' LED LIGHT -RECESSED	0	LARGE PENDANT LIGHT
$\Diamond$	RECESSED LIGHT		MEP DIFFUSER



ARCHITEC

315 NINTH STREET - E
SAN ANTONIO, TEXAS
SOZ1

WWW.DALLENBACHGOI

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

& RCP

OFFICE PLAN

Δ2.4

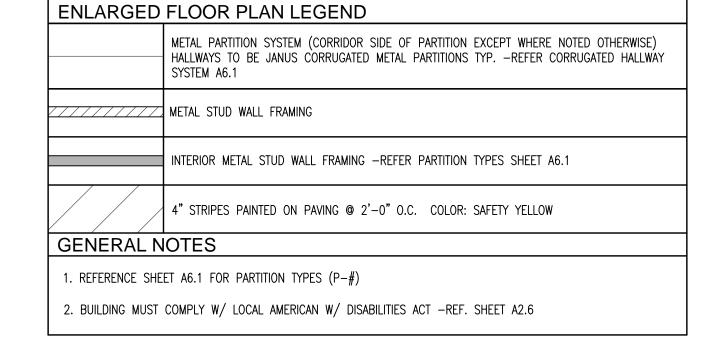
PROJECT NO.

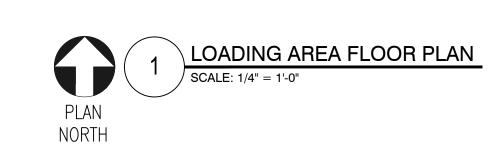
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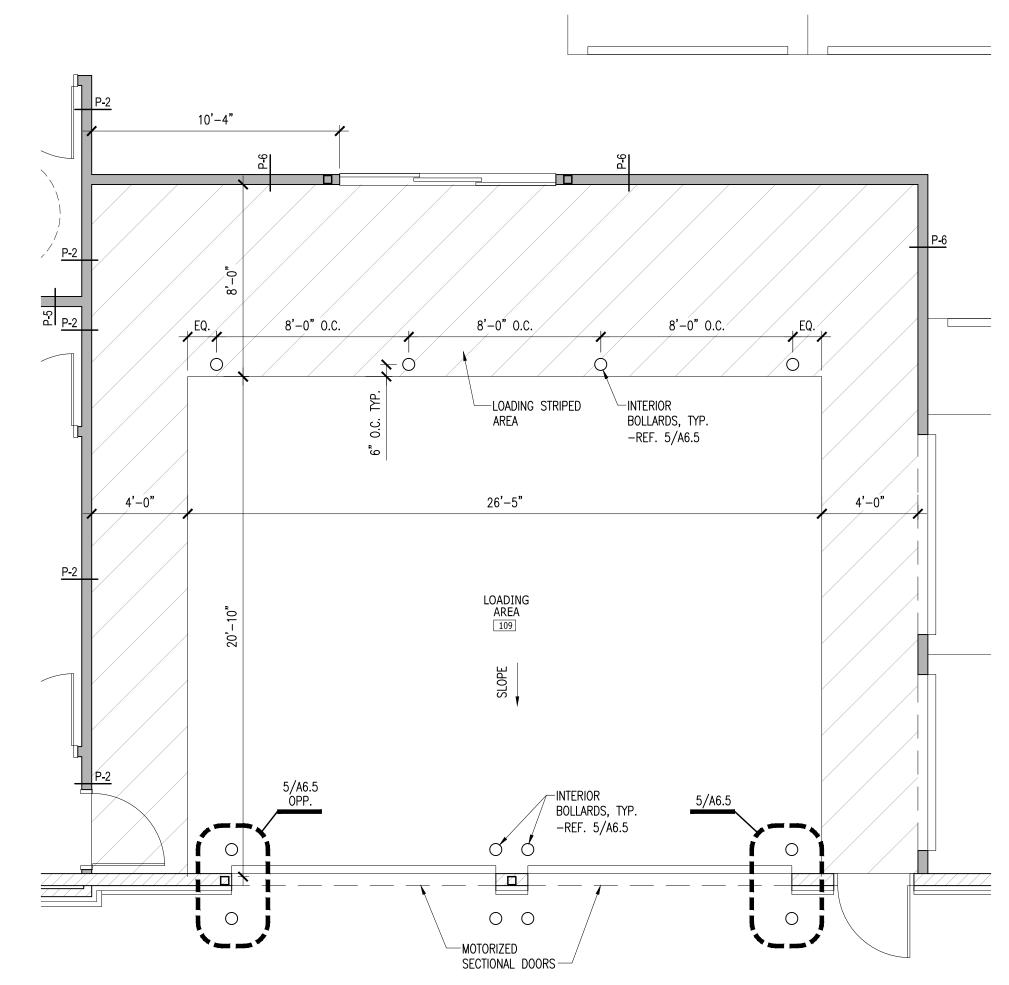
REVISIONS:

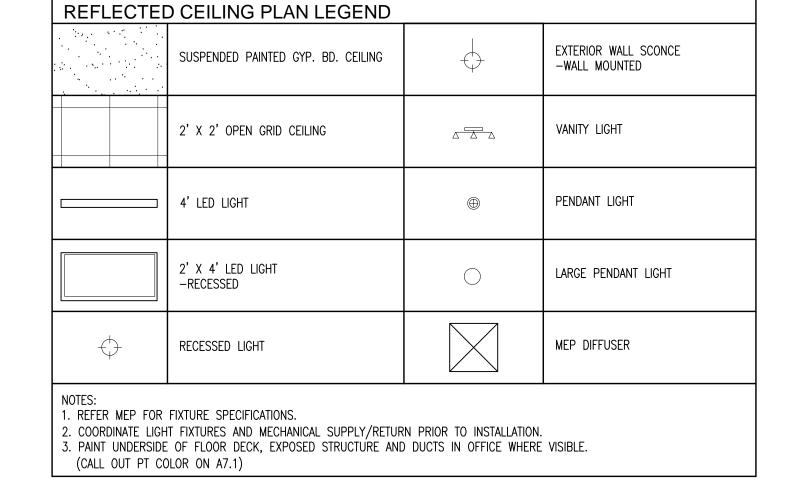
DATE: 12.16.2021

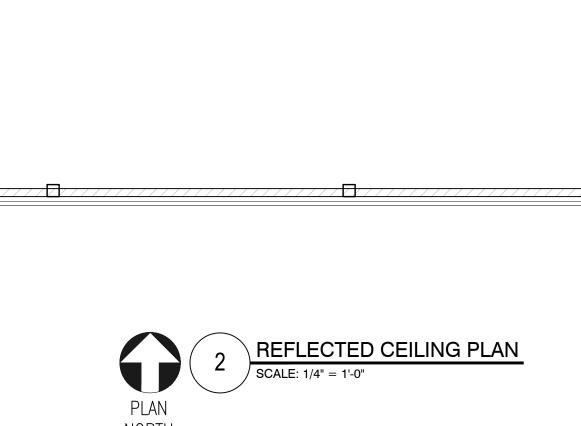
2035

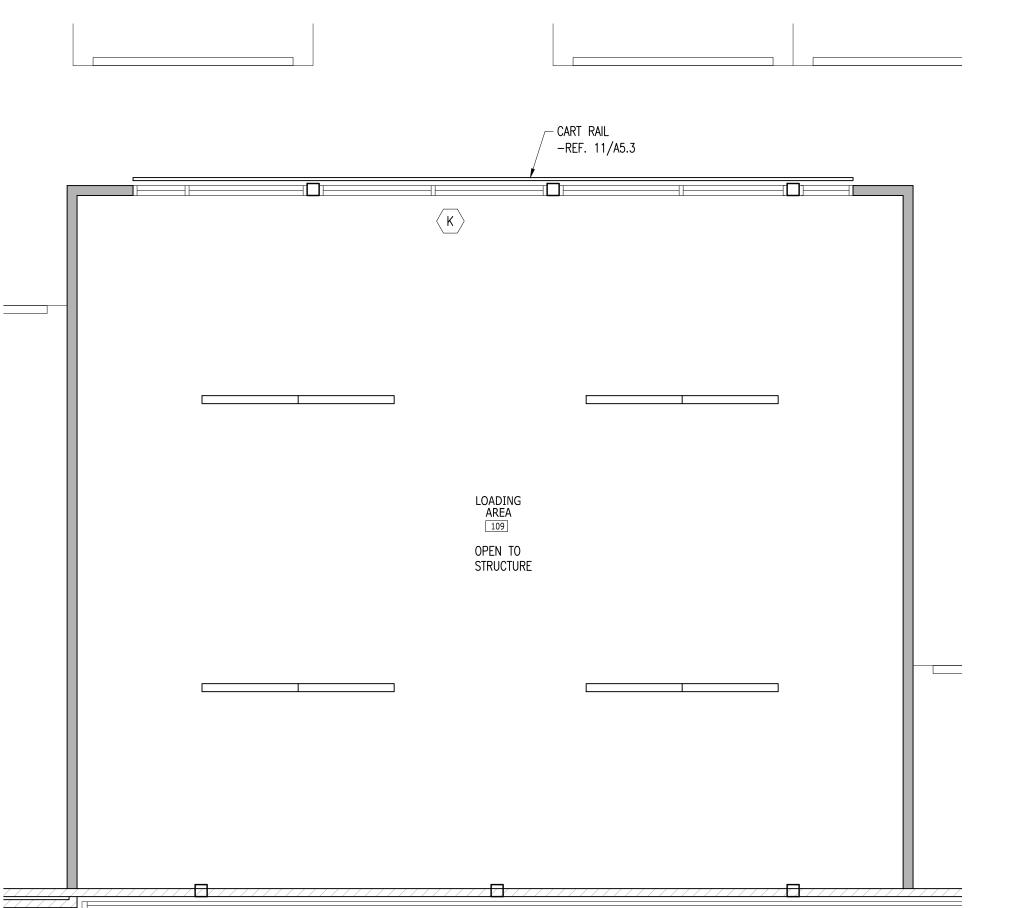


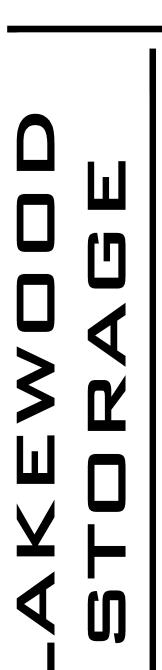












DRAWN:

REVISIONS:

SHEET NO.

DATE: 12.16.2021

ENLARGED

PLAN & RCP

TEFFEY S. DALLENBACH AND DALL STREET S. DALLENBACH AND SEFFEY S. DALLENBACH, AIA

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SAN ANTONIO, TEXAS 78215
WWW.DALLENBACHCOLE.COM

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Departme
Lee's Summit, Missouri
03/10/2022

DRAWN:

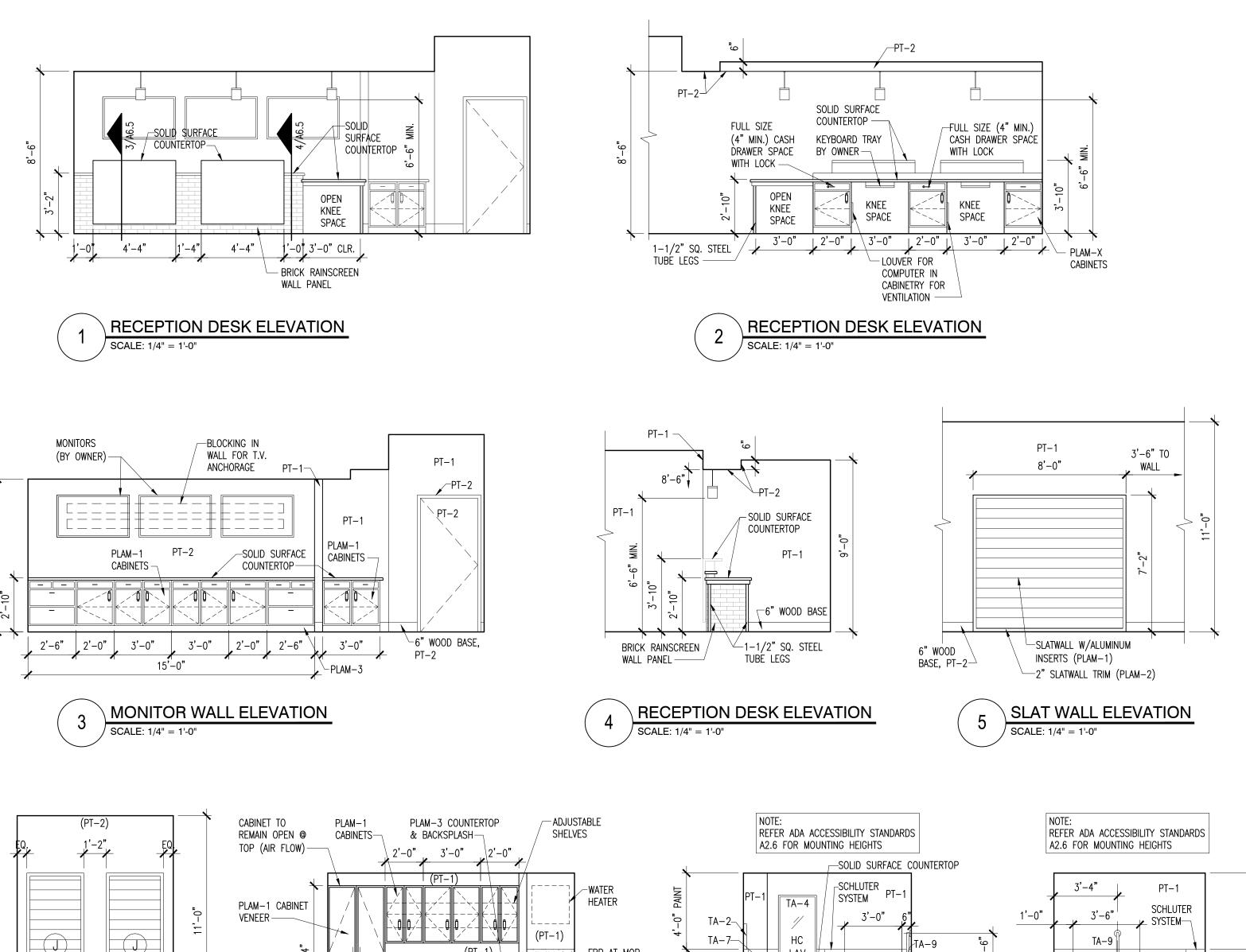
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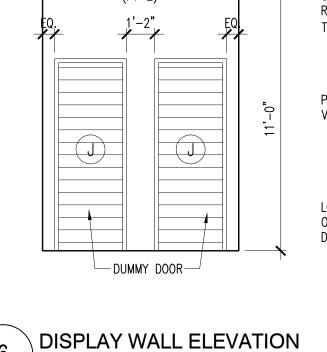
01.20.2022

/ CITY COMMENTS

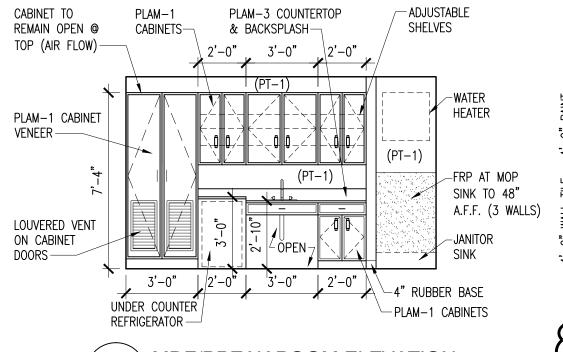
ADA & INT. ELEV

SHEET NO.

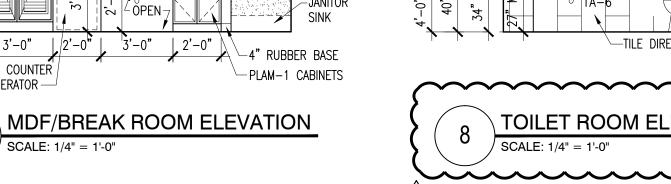


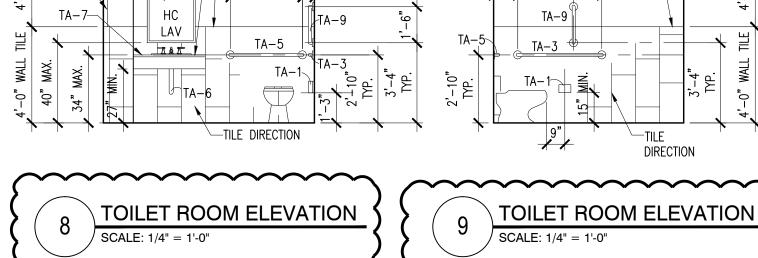


SCALE: 1/4" = 1'-0"



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





HEIGHT

19" CL

48" MAX.

34" CL

40" 34" CL

N/A

48" MAX.

44" MAX.

40" CL

**TOILET ACCESSORIES** 

TA-1 TOILET TISSUE DISPENSER

TA-3 | 42" HORIZONTAL GRAB BAR

TA-5 36" HORIZONTAL GRAB BAR

TA-6 | LAVATORY PIPING INSULATION

TA-7 | FEMININE NAPKIN DISPOSAL

TA-9 | 18" VERTICAL GRAB BAR

. FOR CONTROLS OR REACH, HEIGHT IS MAX.

2. FOR MIRRORS, HEIGHT IS TO BOTTOM OF REFLECTIVE EDGE.

5. BLOCKING FOR ACCESSORIES BY GENERAL CONTRACTOR

6. SOAP DISPENSER TO BE INSTALLED OVER COUNTERTOP

3. FOR GRAB BARS, HEIGHT IS TO CENTER OF HORIZONTAL BAR.

4. ALL DESIGN MUST COMPLY W/ LOCAL AMERICAN'S W/DISABILITIES ACT

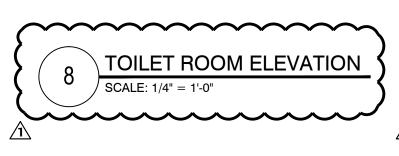
TA-8 | SOAP DISPENSER

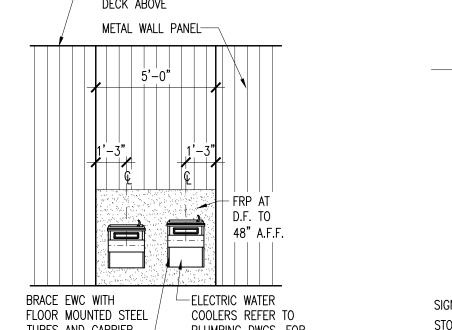
REF. SHEET A2.6

TA-2 HAND DRYERS

TA-4 MIRROR

NOTES

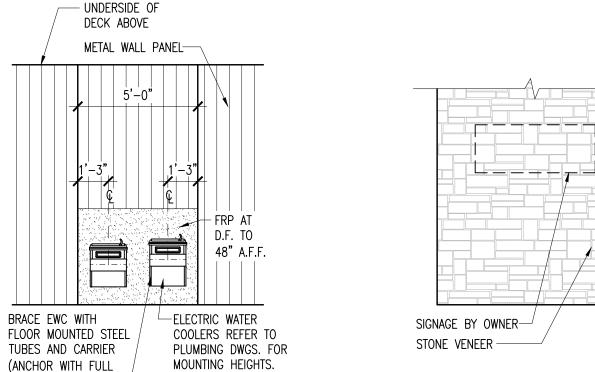






HEIGHT BLOCKING) —





FRONT APPROACH, PULL SIDE FRONT APPROACH, PUSH SIDE LATCH APPROACH PULL SIDE SURFACE OF RAMP 36" MIN. IF 60 42" MIN. IF 54' LEVEL LANDING 36" MIN. HINGE APPROACH PULL SIDE

2010 - ADA STANDARDS FOR ACCESSIBLE DESIGN

60" MIN. DIA. -

TURNING RADIUS

TOILET PARTITION TO HAVE 9" TOE

CLEARANCE AFF.

DOOR OPEN

& LATCH

TOWEL DISPENSER/

RECEPTACLE

( |= |LOBBY

NAPKIN DISPOSAL

WALKING PARALLEL TO A WALL

12"∣ MIN. IF

LATCH/CLOSER

NAPKIN DISPENSER

CLEAR WIDTH

WHEELCHAIR

— CLEAR FLOOR SPACE AT FIXTURES CAN OVERLAP. FIXTURES CAN NOT OVERLAP INTO

CLEAR FLOOR SPACE OF ANOTHER FIXTURE.

-30" X 48" WHEELCHAIR

- DOOR SWING CAN SWING

FLOOR SPACE FOR FIXTURES.

— GRAB BARS HEIGHT

-FLUSH VALVE SHALL

BE INSTALLED ON WIDE SIDE OF T/R OR STALL

✓ ✓ 33"-36" AFF, TYP.

INTO REQUIRED TURN SPACE BUT NOT CLEAR

CLEAR FLOOR SPACE

2" EDGE PROTECTION TO EXTEND TO END OF REQUIRED LANDING LEVEL LANDING 36" MIN. -ABOVE WALKING SURFACES HINGE APPROACH PUSH SIDE EDGE PROTECTION & HANDRAIL EXTENSIONS

TOILET PAPER DISPENSERS SHALL

BE 7" MIN. & 9" MAX. IN FRONT

OF THE WATER CLOSET. MEASURE

KNEE CLEAR

54 MIN.

39"-41"

TO THE CENTERLINE OF THE DISPENSER

- MAINTAIN 1

GRAB BARS

MIN. & 48" MAX. AFF. & SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE

OF A TYPE THAT CONTROLS DELIVERY OR THAT

DOES NOT ALLOW CONTINUOUS PAPER FLOW.

17"-25" TOE CLEAR

 $\Diamond$ 

60" MIN.

T-SHAPED TURNING SPACE

LATCH APPROACH PUSH SIDE

- CONTINUOUS HANDRAILS PROVIDED

ON BOTH SIDES OF RAMPS AT

SURFACES > 6" GROUND

5" MAX.

(TO SPOUT)

CENTERED
ON TACTILE
CHARACTERS

15" MIN.

CLEARANCE AT

FAUCETS SHALL BE OPERABLE W/ 1 HAND

AND SHALL NOT BE REQUIRE TIGHT GRASPING,

PARTS SHALL BE 5 POUNDS MAX.

CLEAR FLOOR SPACE AT LAVATORIES

PINCHING, OR TWISTING OF THE WRIST. THE

FORCE REQUIRED TO ACTIVATE OPERABLE

- PROVIDE PIPE INSULATION

TO HOT WATER & DRAIN LINES

- FLUSH VALVE SHALL

BE INSTALLED ON WIDE SIDE OF T/R OR STALL

DOORS IN SERIES AND GATES IN SERIES

SOAP DISPENSER

REACH DEPTH:

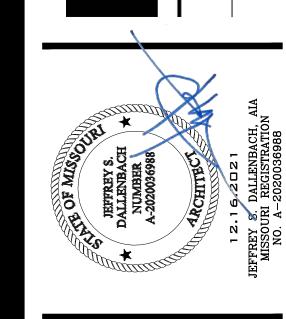
HAND DRYER

*NOTE: SIGNS SHALL COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

AREA OF_ REFUGE_

48" MAX. 20" MAX.

44" MAX. 20"-25" MAX.



# K E W O O D T O R A G E

PROJECT NO. 203

DATE: 12.16.2021

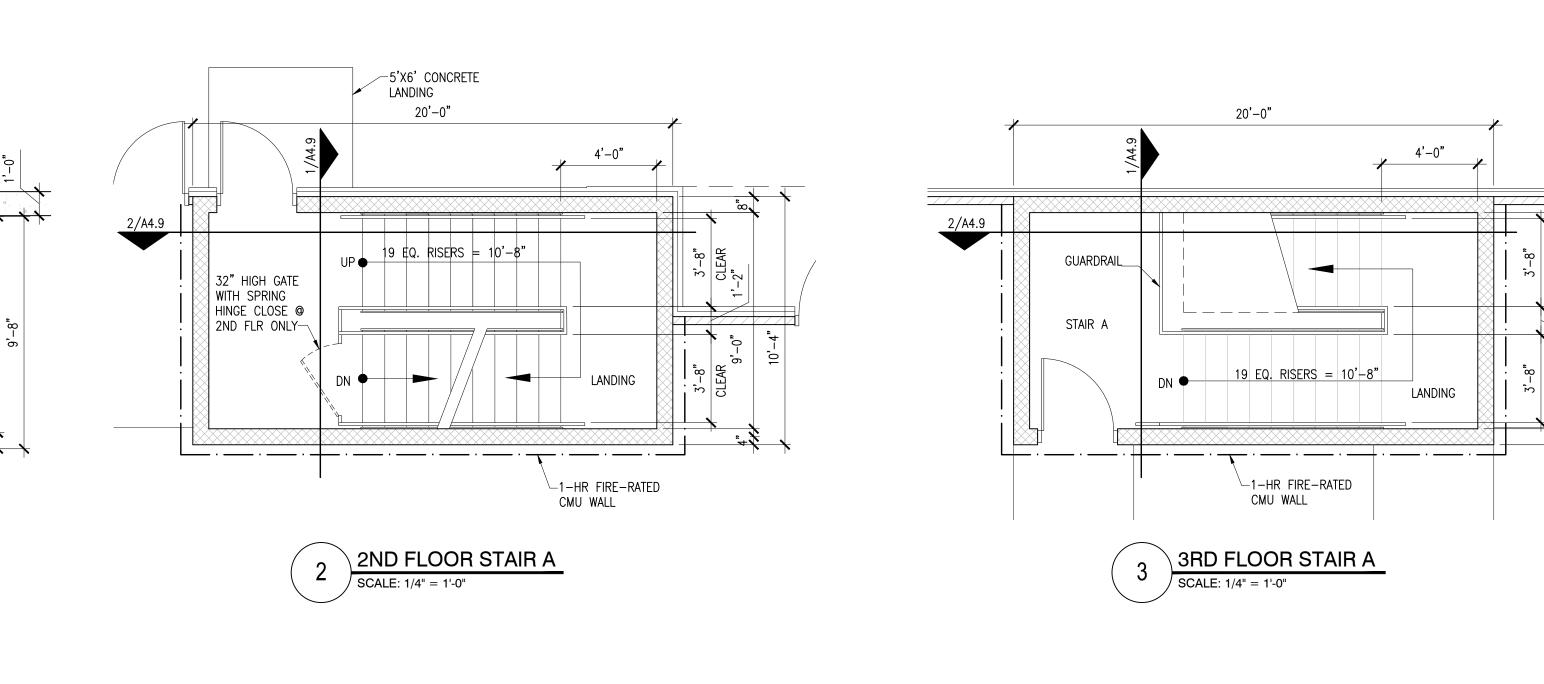
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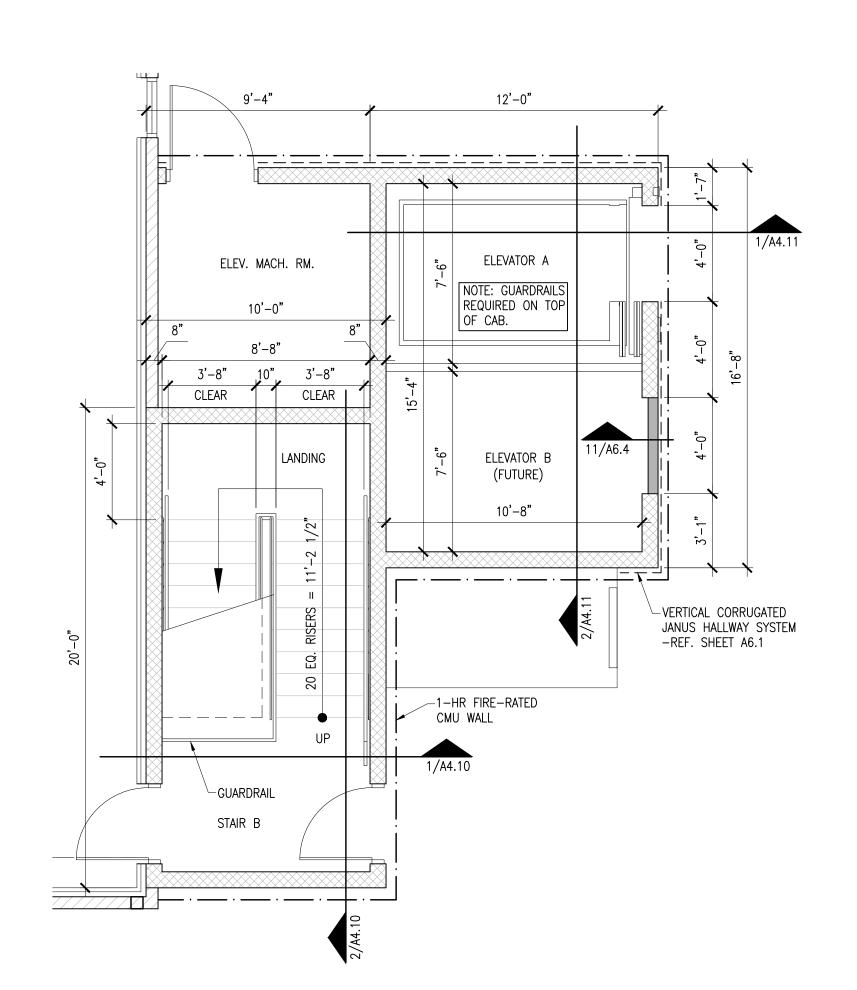
REVISIONS:

ENLARGED PLANS

SHEET NO.

A2.7





20'-0"

UP 20 EQ. RISERS = 11'-2 1/2"

1ST FLOOR STAIR A

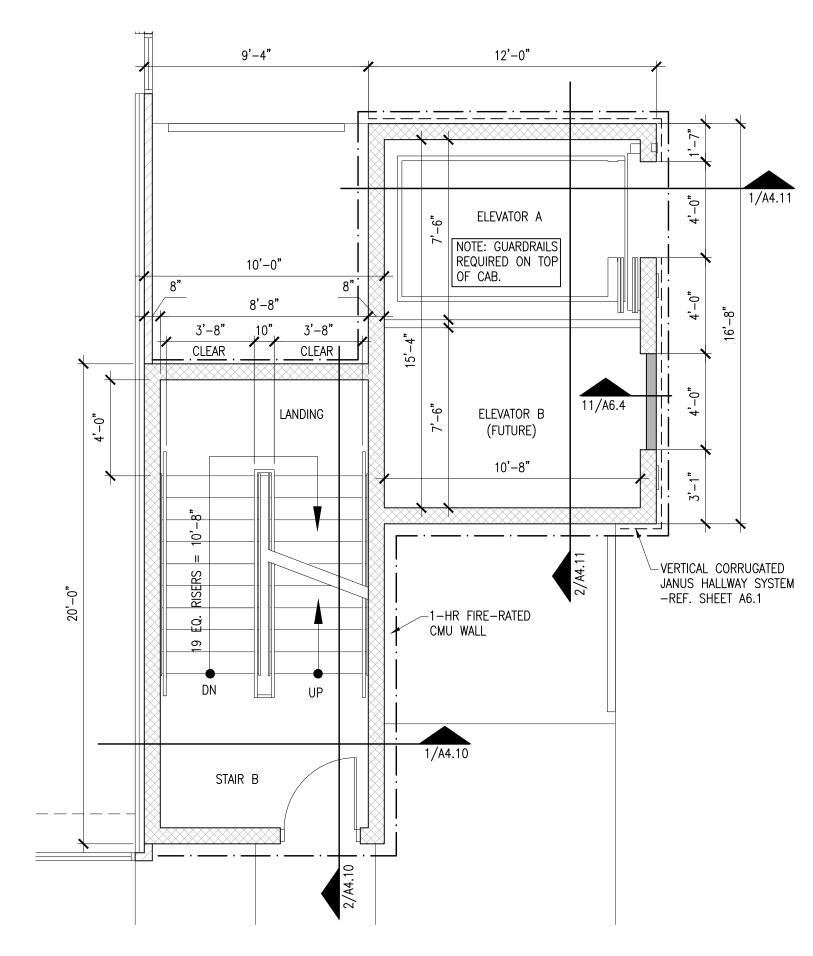
STEM WALL TO BE 1'-0 1/2" THICK ONLY AT STAIR A

2/A4.9

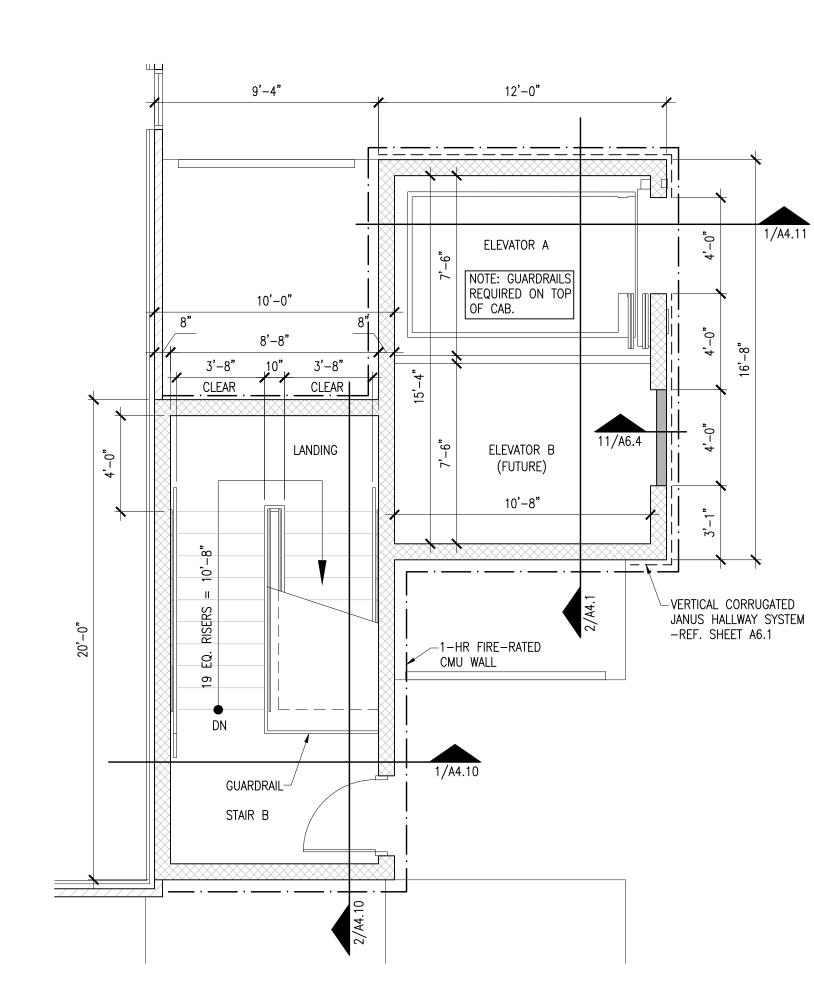
STAIR A

GUARDRAIL-





5 2ND FLOOR STAIR B / ELEV. A & B
SCALE: 1/4" = 1'-0"



6 3RD FLOOR STAIR B / ELEV. A & B
SCALE: 1/4" = 1'-0"

DATE: 12.16.2021

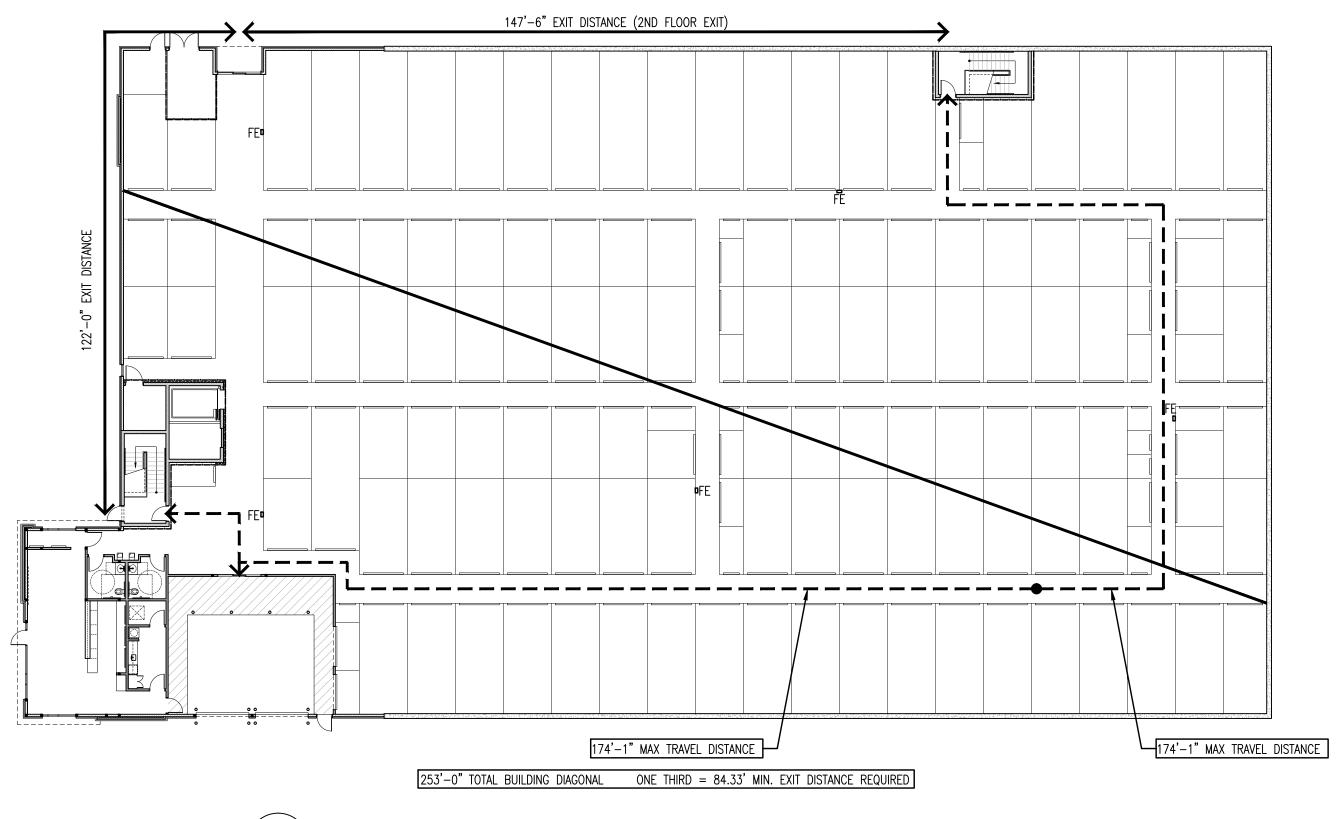
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REVISIONS:

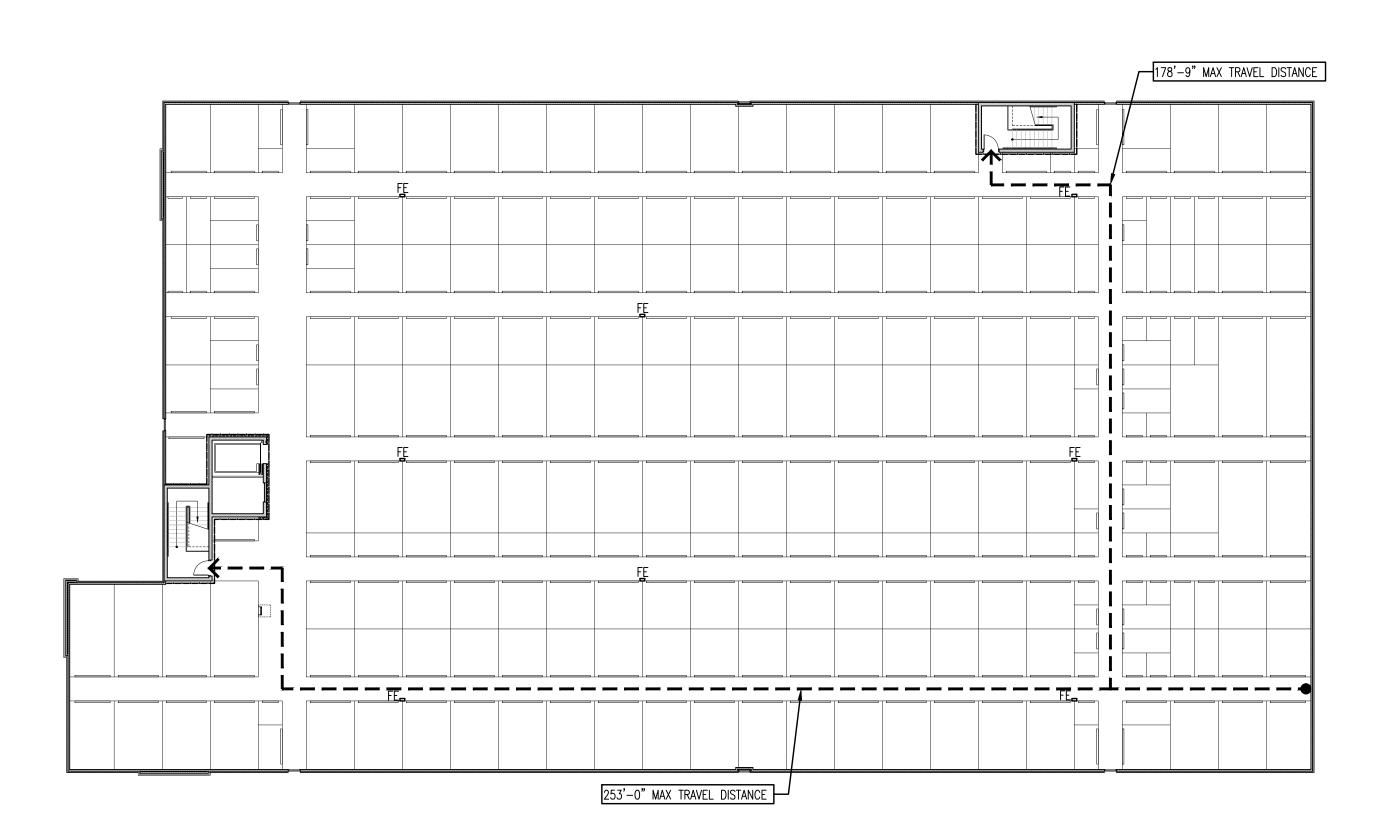
EGRESS PLANS

SHEET NO.

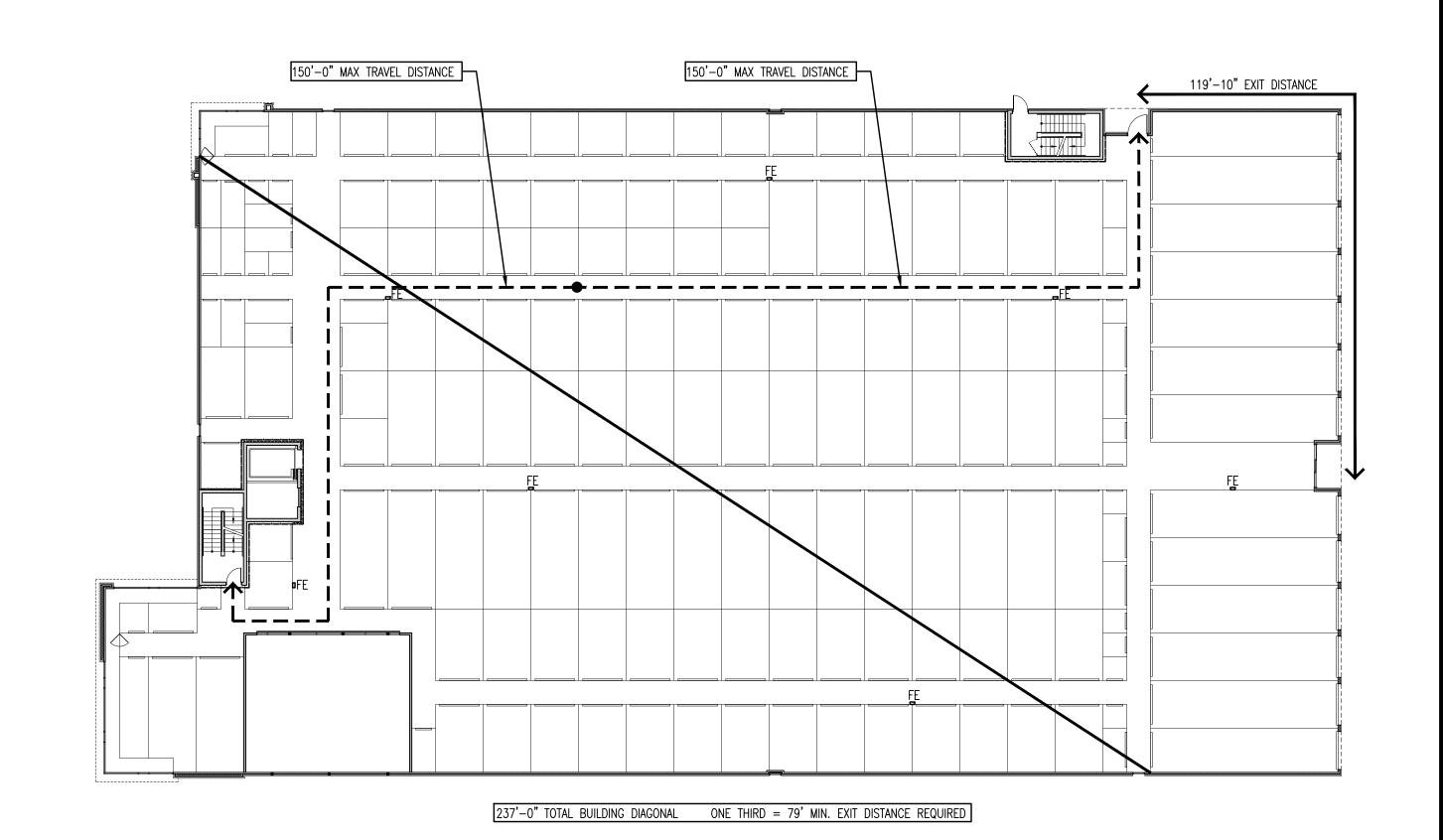
A2.8



1 SCALE: 1" = 20'-0"



3 3RD FLOOR EGRESS PLAN
SCALE: 1" = 20'-0"



2 2ND FLOOR EGRESS PLAN
SCALE: 1" = 20'-0"

DRAWN:

REVISIONS:

ELEVATION LEGEND

ELEVATION NOTES

OF ADJACENT MATERIAL.

TO UNDERGROUND SEWER

UNLESS NOTED OTHERWISE.

STRUCTURAL SUPPORT.

HORIZONTAL METAL WALL PANEL (M1)

VERTICAL METAL WALL PANEL (M3)

BRICK RAINSCREEN WALL PANEL

STONE RAINSCREEN WALL PANEL

EXTERIOR LIGHT FIXTURE -REF. MEP

OVERFLOW SCUPPER -REF. 12/A6.3

OUTSIDE AIR LOCATIONS -REF. MEP

METAL COPING, TRIM, AND FLASHING TO MATCH COLOR

ROOF MATERIAL TO BE TPO ROOF SYSTEM SLOPED AT 1/4" FT WITH INTERNAL ROOF DRAINS TO CONNECT

OVERFLOW SCUPPERS TO BE 2" ABOVE LOWEST POINT

REFER SHEET A7.1 FOR EXTERIOR PAINT COLORS.

PAINT MAN DOOR TO MATCH ADJACENT MATERIAL

MAX PARAPET HEIGHT TO BE 2'-6" WITHOUT

GENERAL CONTRACTOR/SIGNAGE COMPANY TO PROVIDE ANCHORAGE, BLOCKING, & WATERPROOFING FOR

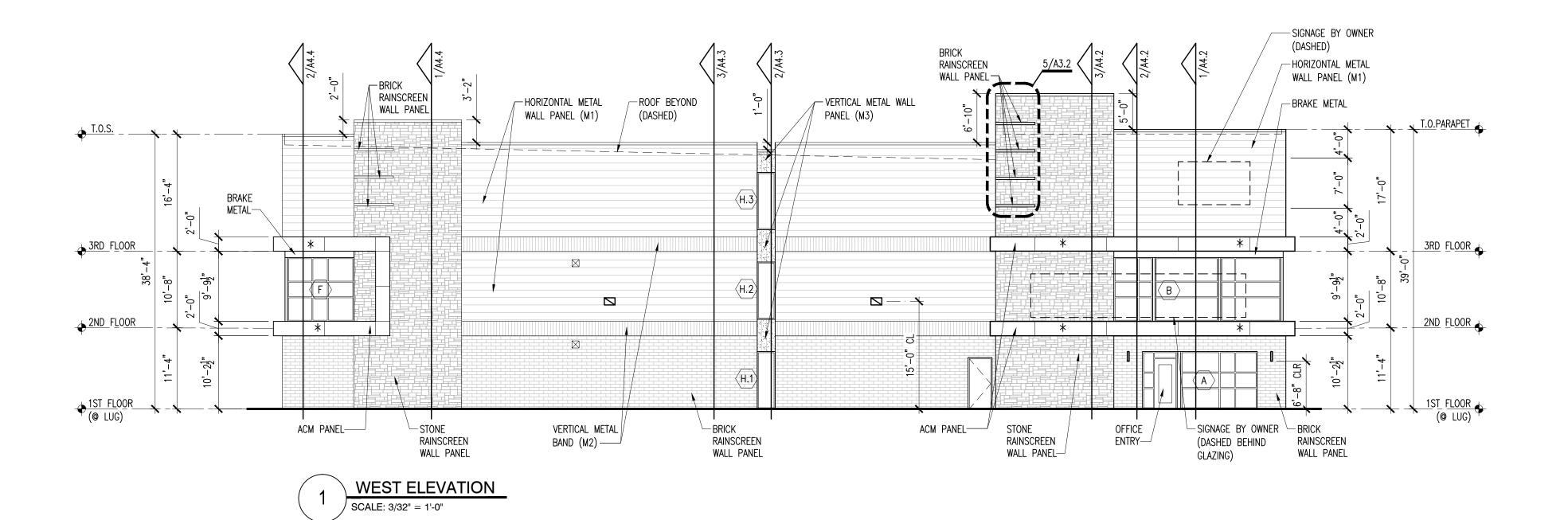
ACM - ALUMINUM COMPOSITE MATERIAL PANEL

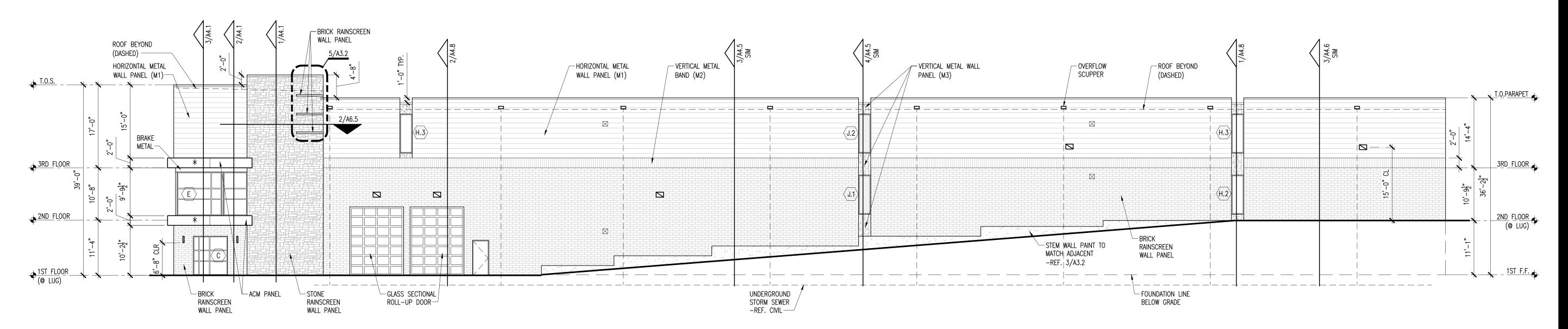
VERTICAL METAL BAND (M2)

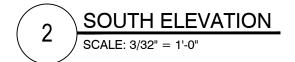
EXTERIOR ELEVATIONS

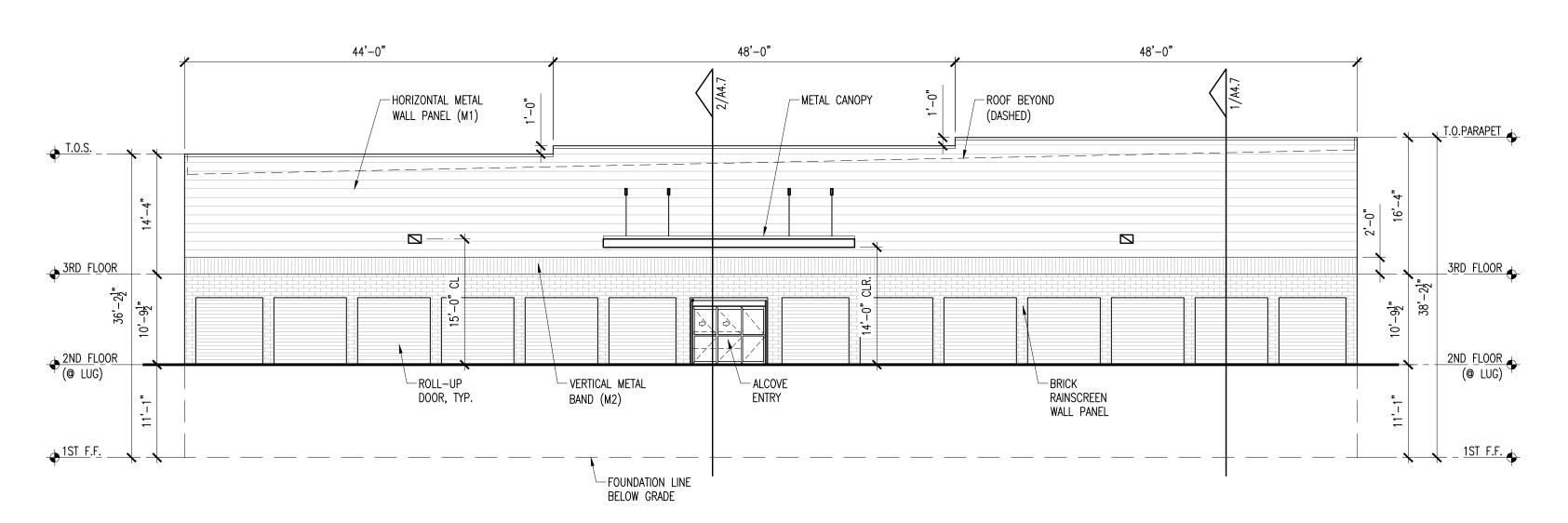
SHEET NO.

A3.1









SCALE: 3/32" = 1'-0"

EXTERIOR

**ELEVATIONS** 

DRAWN:

SHEET NO.

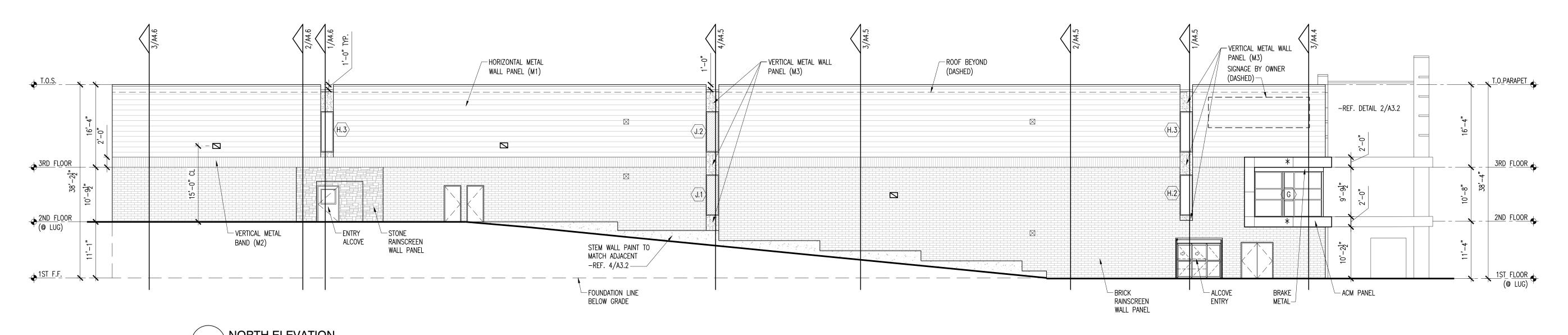
REVISIONS:

REFER SHEET A7.1 FOR EXTERIOR PAINT COLORS.

PAINT MAN DOOR TO MATCH ADJACENT MATERIAL UNLESS NOTED OTHERWISE.

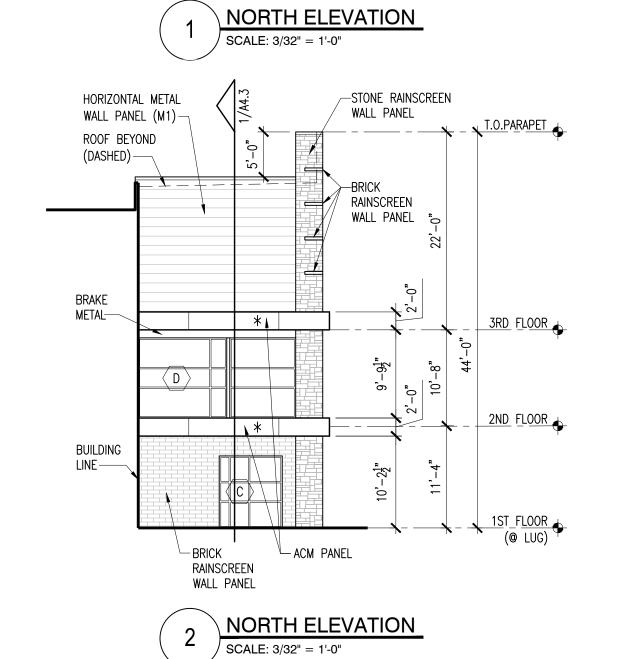
GENERAL CONTRACTOR/SIGNAGE COMPANY TO PROVIDE ANCHORAGE, BLOCKING, & WATERPROOFING FOR

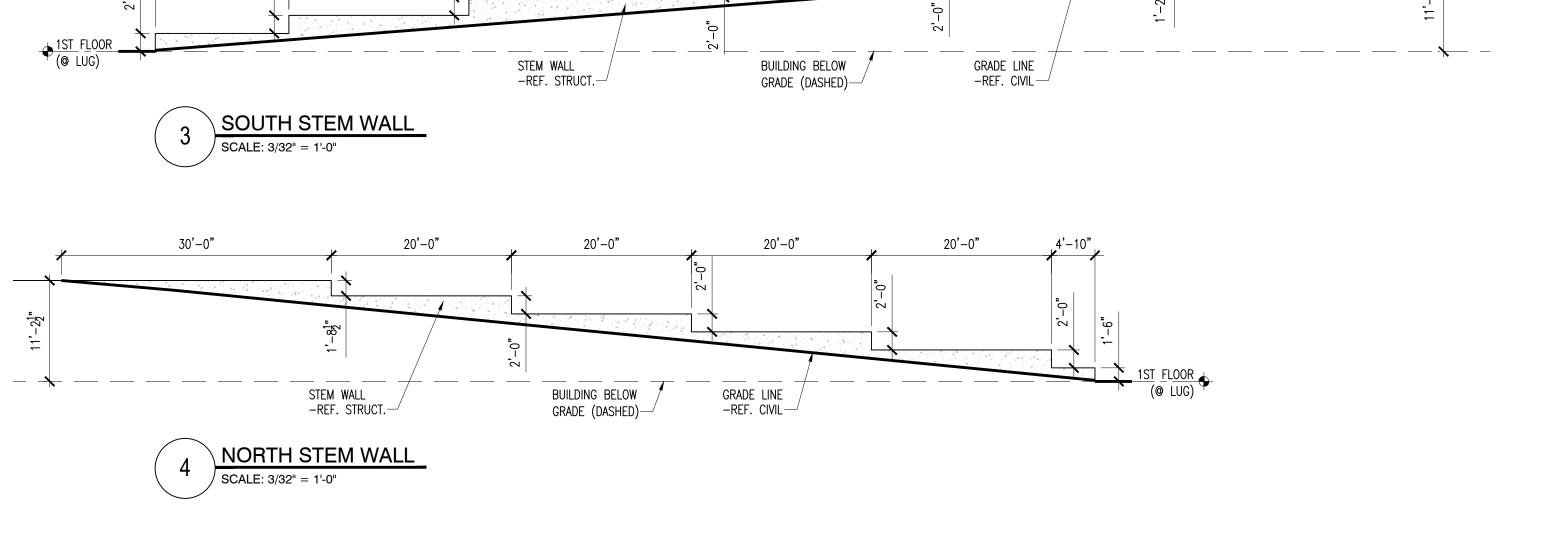
STRUCTURAL SUPPORT.



30'-0"

20'-0"

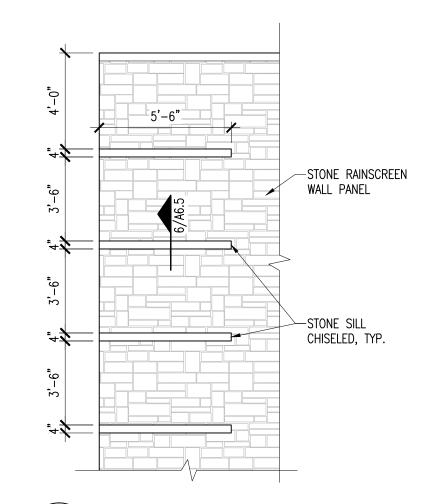




25'-0"

 $26'-10\frac{3}{4}"$ 

25'-0"



STONE BAND ELEVATION

ELEVATION LEGEND HORIZONTAL METAL WALL PANEL (M1) VERTICAL METAL BAND (M2) VERTICAL METAL WALL PANEL (M3) ACM — ALUMINUM COMPOSITE MATERIAL PANEL BRICK RAINSCREEN WALL PANEL STONE RAINSCREEN WALL PANEL EXTERIOR LIGHT FIXTURE -REF. MEP OVERFLOW SCUPPER -REF. 12/A6.3 OUTSIDE AIR LOCATIONS -REF. MEP ELEVATION NOTES

METAL COPING, TRIM, AND FLASHING TO MATCH COLOR OF ADJACENT MATERIAL.

ROOF MATERIAL TO BE TPO ROOF SYSTEM SLOPED AT 1/4" FT WITH INTERNAL ROOF DRAINS TO CONNECT TO UNDERGROUND SEWER

OVERFLOW SCUPPERS TO BE 2" ABOVE LOWEST POINT

MAX PARAPET HEIGHT TO BE 2'-6" WITHOUT



DALLENBACH
NUMBER
A-2020036988
A-2020036988
1 Z. 1 G. Z D Z 1
JEFFREY S. DALLENBACH, AIA
MISSOURI REGISTRATION
NO. A-2020036988

PROJECT NO. 2035

DATE: 12.16.2021

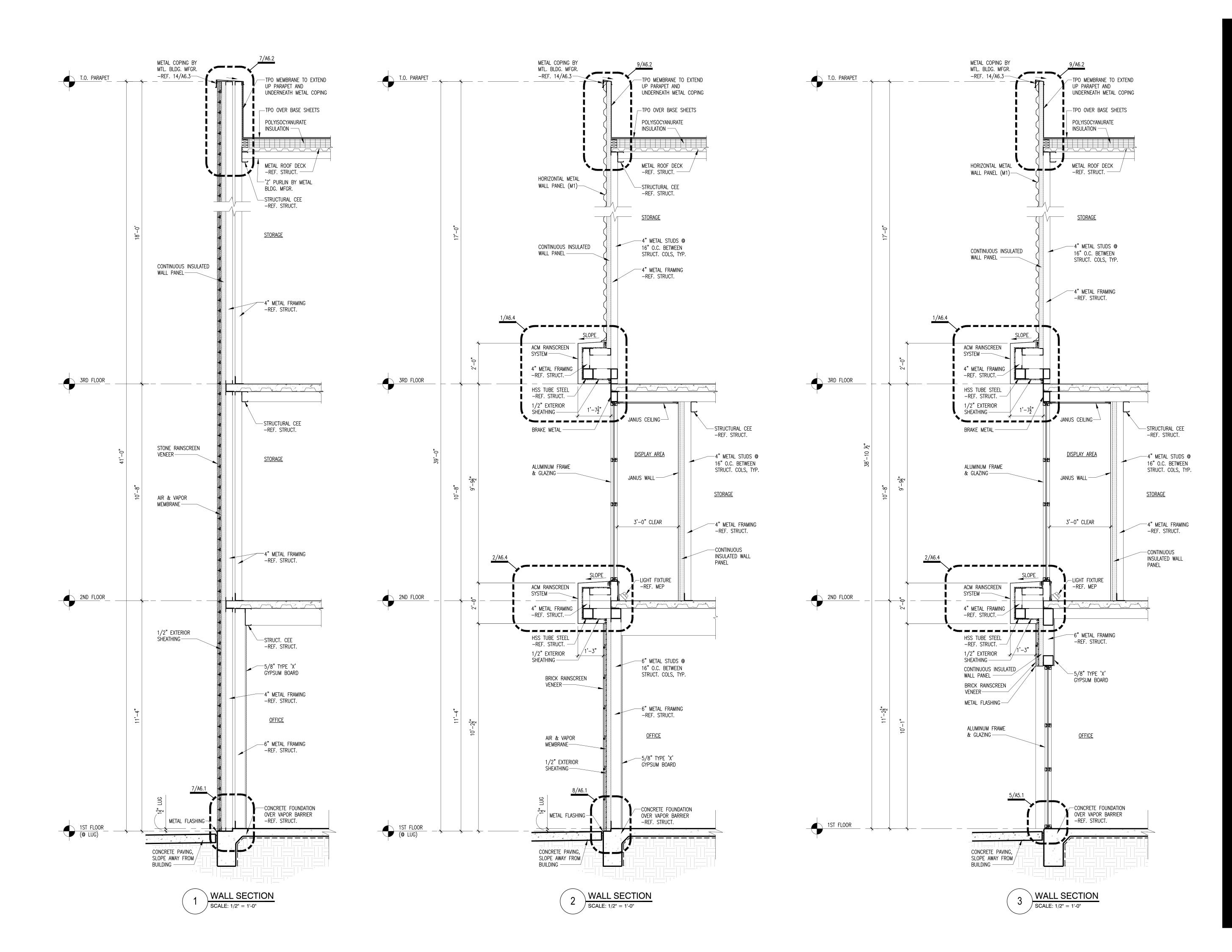
DRAWN:

REVISIONS:

WALL SECTIONS

SHEET NO.

A4.



DATE: 12.16.2021

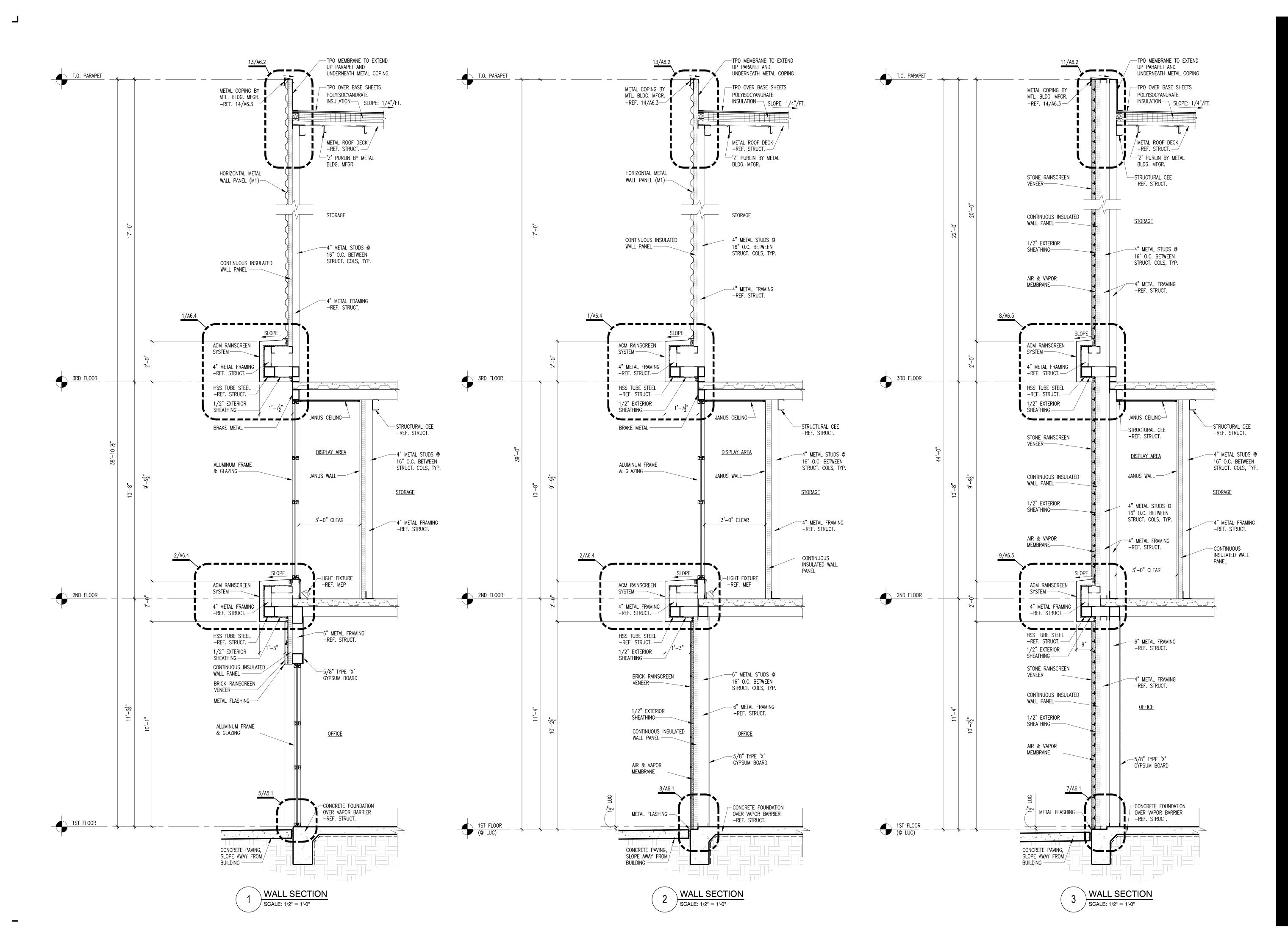
DRAWN: VP

REVISIONS:

WALL SECTIONS

SHEET NO.

A4.2



-TPO MEMBRANE TO EXTEND

UP PARAPET AND UNDERNEATH METAL COPING

TPO OVER BASE SHEETS

POLYISOCYANURATE INSULATION —

METAL ROOF DECK

-REF. STRUCT. ---

-STRUCTURAL CEE

−4" METAL STUDS @ 16" O.C. BETWEEN

STRUCT. COLS, TYP.

-4" METAL FRAMING -REF. STRUCT.

— STRUCTURAL CEE

-REF. STRUCT.

−4" METAL STUDS @

16" O.C. BETWEEN

STRUCT. COLS, TYP.

-4" METAL FRAMING -REF. STRUCT.

-STRUCTURAL CEE

-REF. STRUCT.

<u>STORAGE</u>

-6" METAL STUDS @

16" O.C. BETWEEN STRUCT. COLS, TYP.

—6" METAL FRAMING -REF. STRUCT.

CONCRETE FOUNDATION

OVER VAPOR BARRIER

REF. STRUCT.

<u>STORAGE</u>

<u>STORAGE</u>

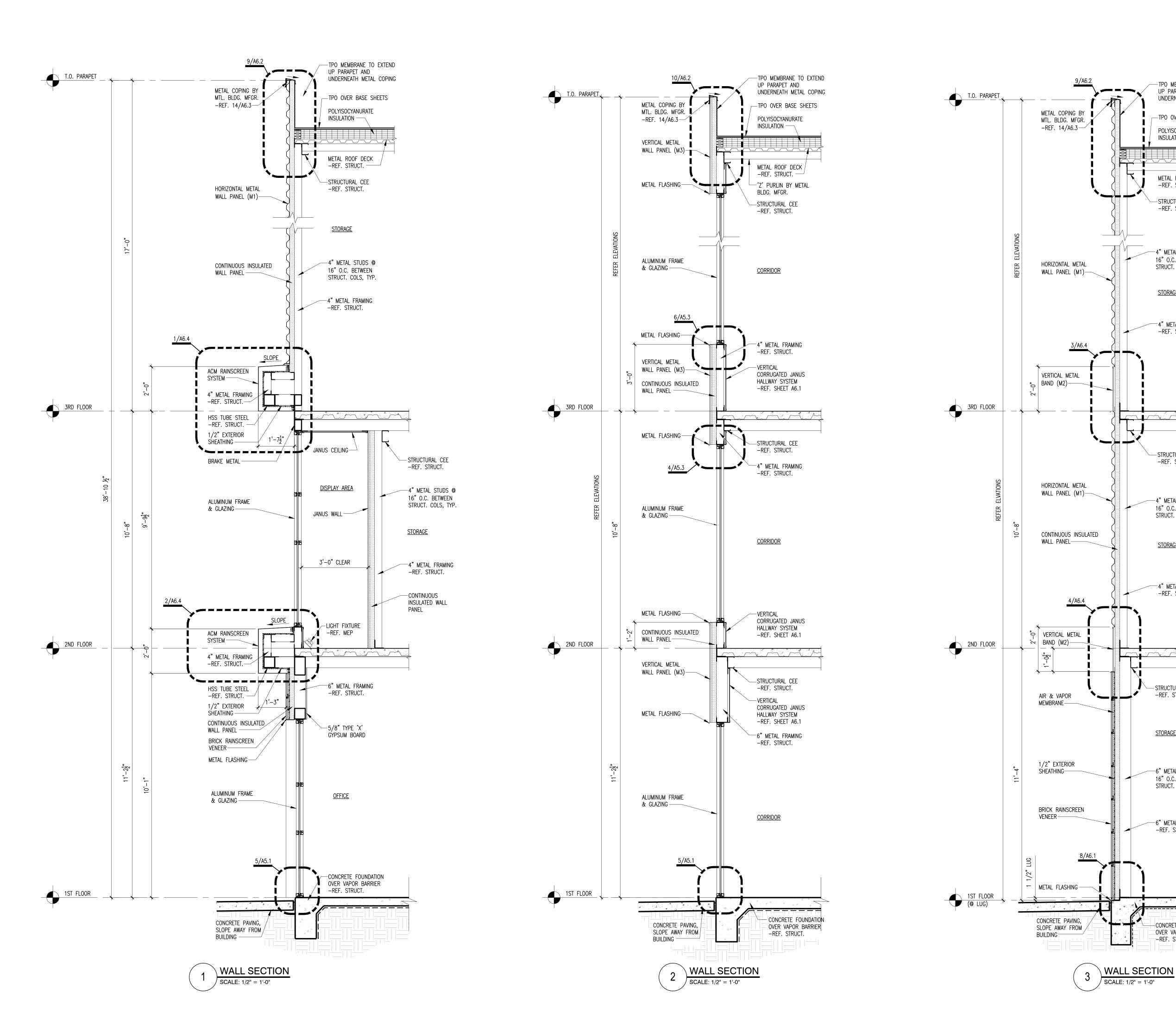
-REF. STRUCT.

DATE: 12.16.2021 DRAWN:

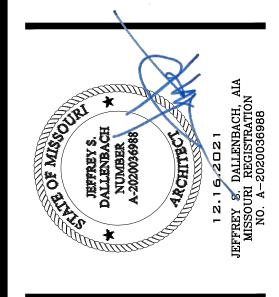
REVISIONS:

WALL SECTIONS

SHEET NO.







AKEWOOD OD STORYE

PROJECT NO. 2035

DATE: 12.16.2021

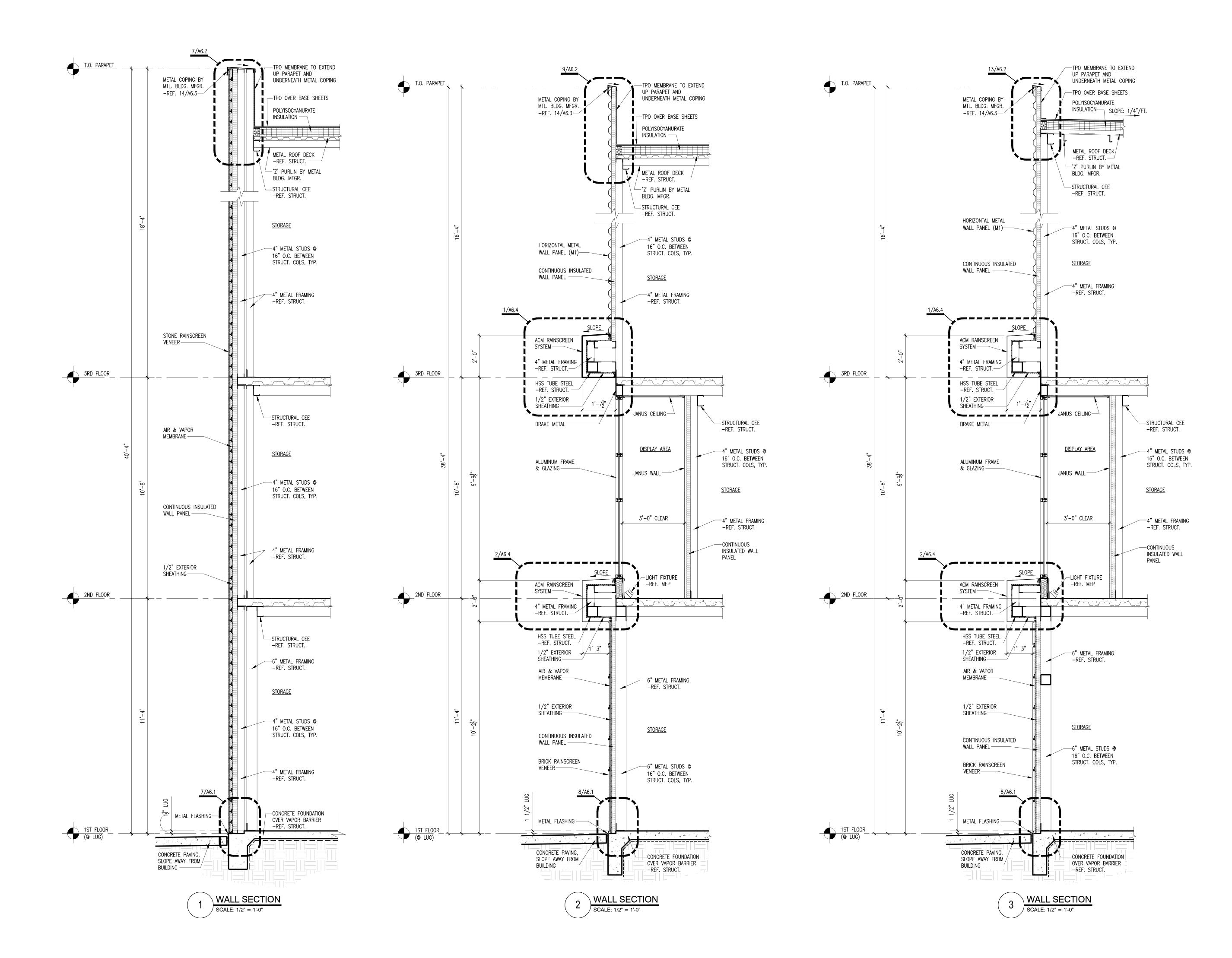
DRAWN:

REVISIONS:

WALL SECTIONS

SHEET NO.

A4.4





DALLENBACH
NUMBER
A-2020036988

1 Z.1 6.2 D Z 1
JEFFREY S. DALLENBACH, AIA
MISSOURI REGISTRATION
NO. A-2020036988

TORAGERINE

PROJECT NO. 2035

DATE: 12.16.2021

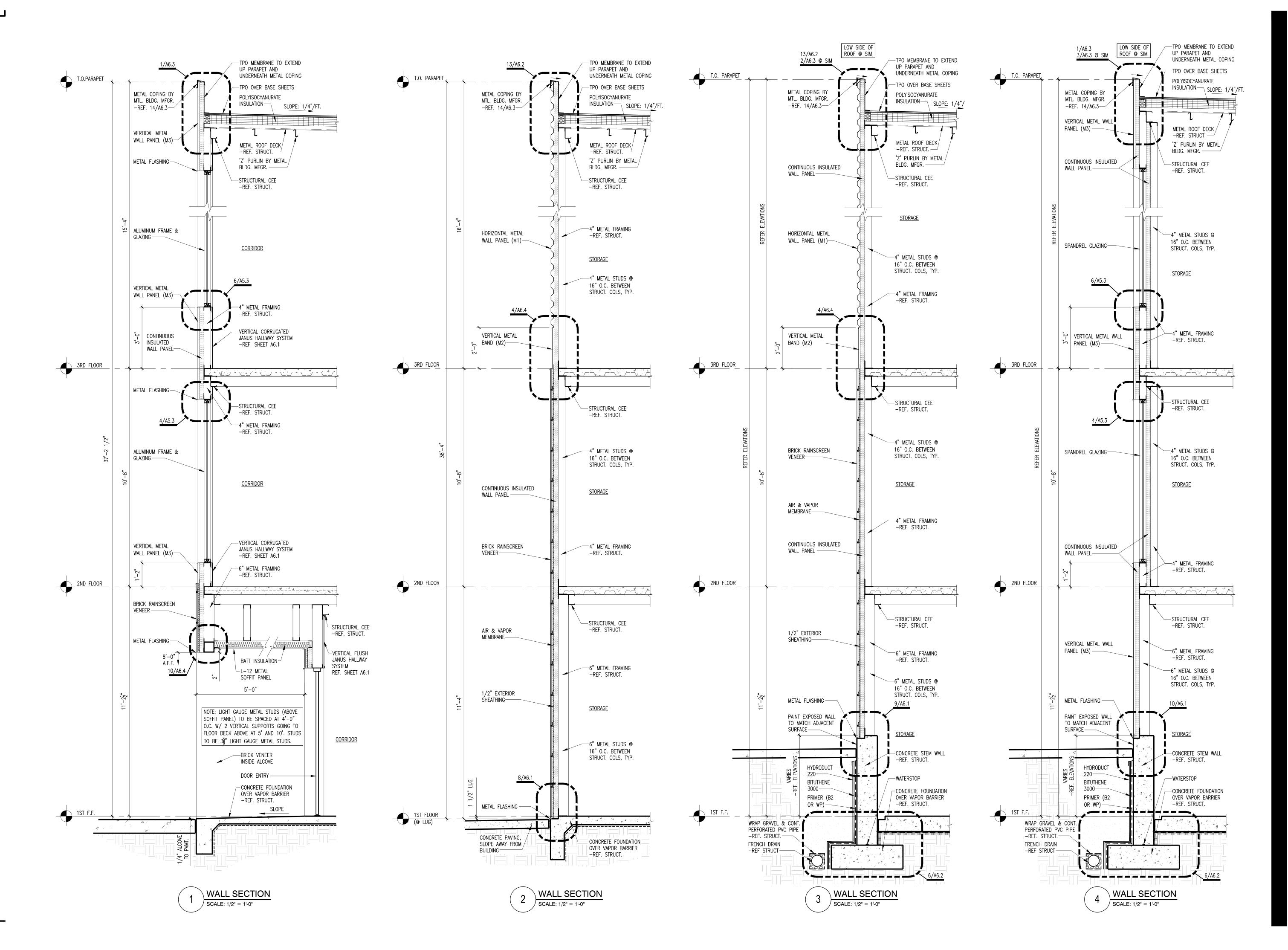
DRAWN:

REVISIONS:

WALL SECTIONS

SHEET NO.

A4.5



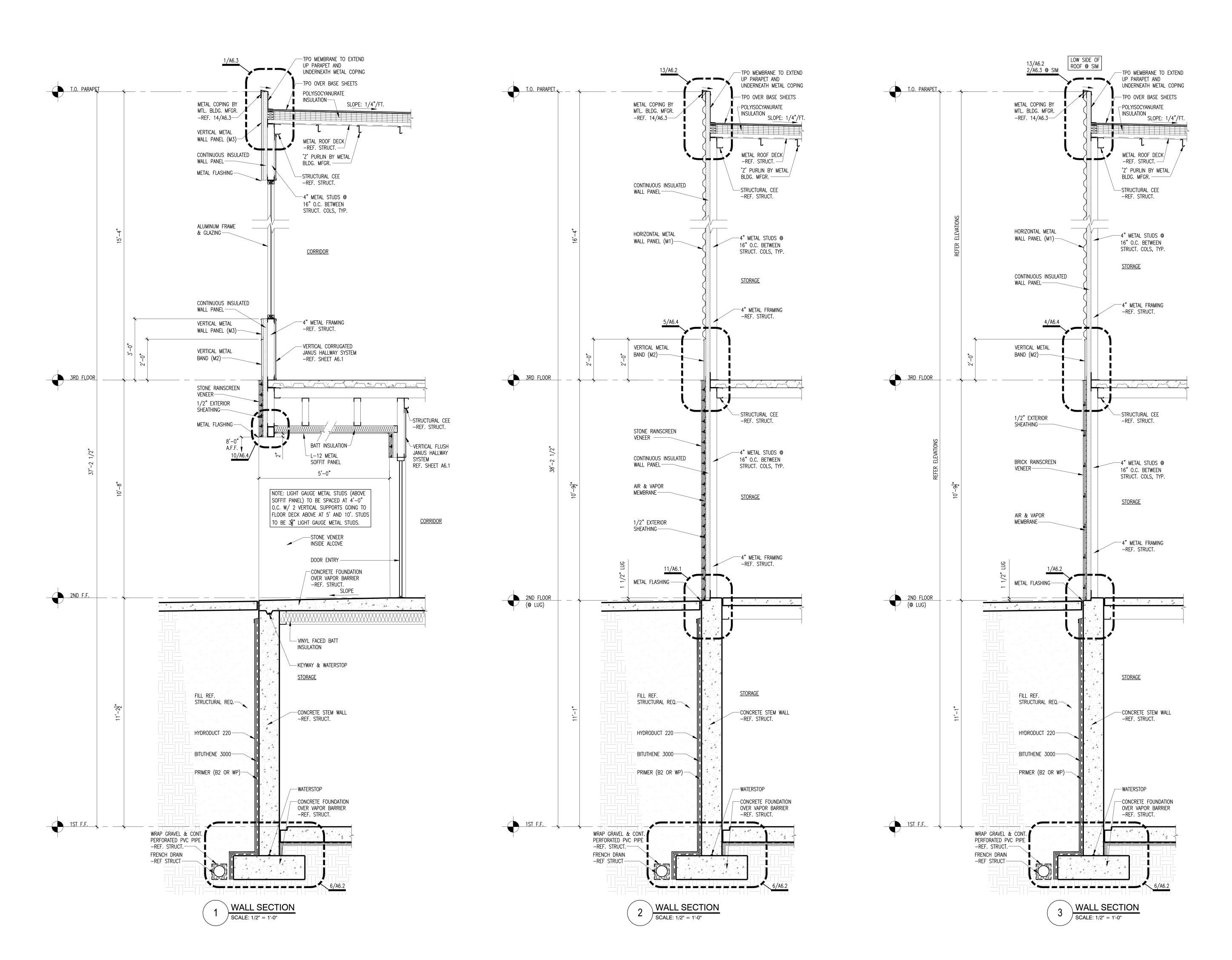
PROJECT NO. 2035 DATE: 12.16.2021

DRAWN:

REVISIONS:

WALL SECTIONS

SHEET NO.





TEFFREY S.

DALLENBACH
NUMBER
A-2020036988

A-2020036988

1 Z. 1 6. Z | Z | Z |
JEFFREY S. DALLENBACH, AIA
MISSOURI REGISTRATION
NO. A-2020036988

# AKEWOOD STORAGE

PROJECT NO. 2035

DATE: 12.16.2021

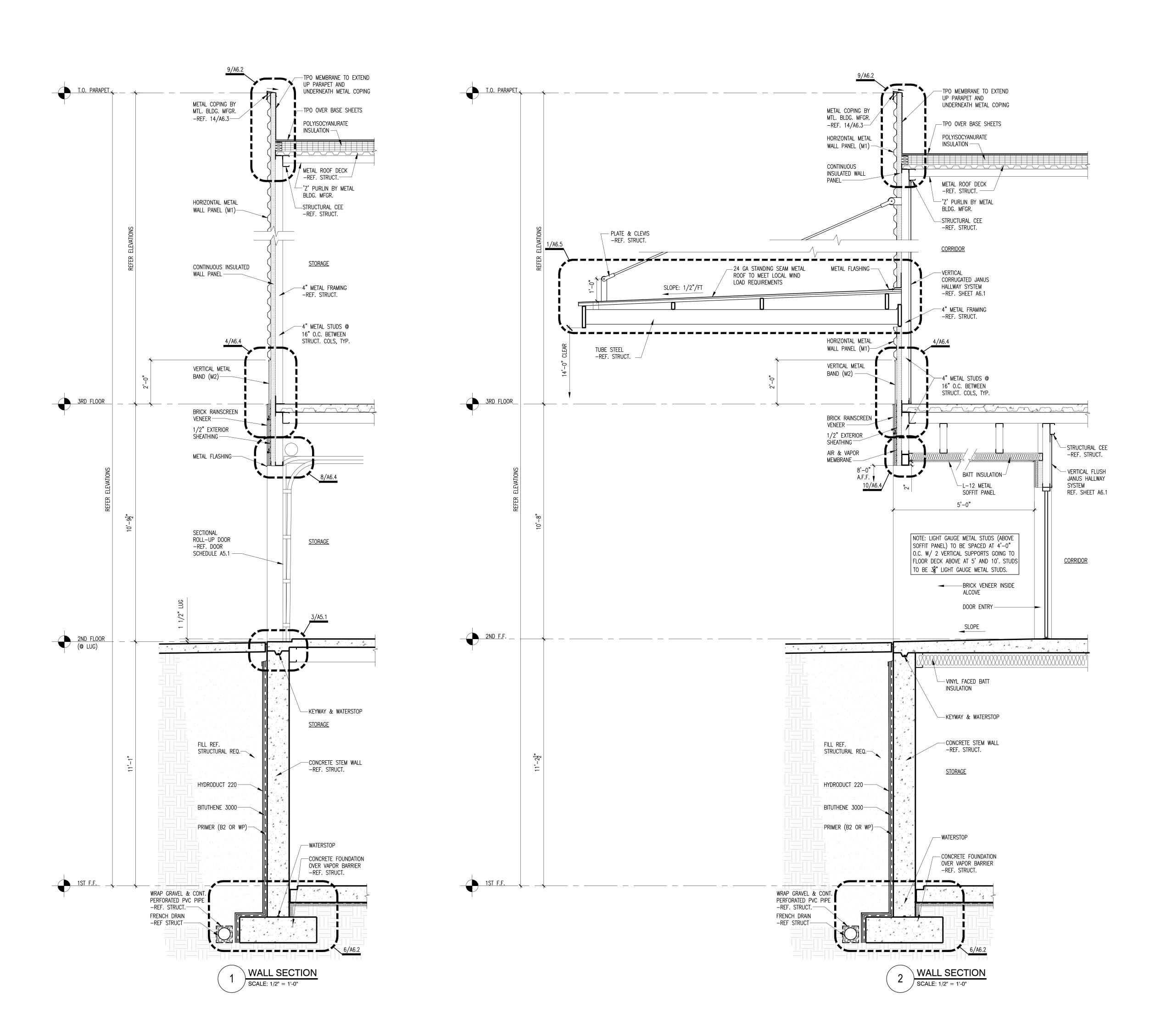
DRAWN:

REVISIONS:

WALL SECTIONS

SHEET NO.

A4.7



DATE: 12.16.2021

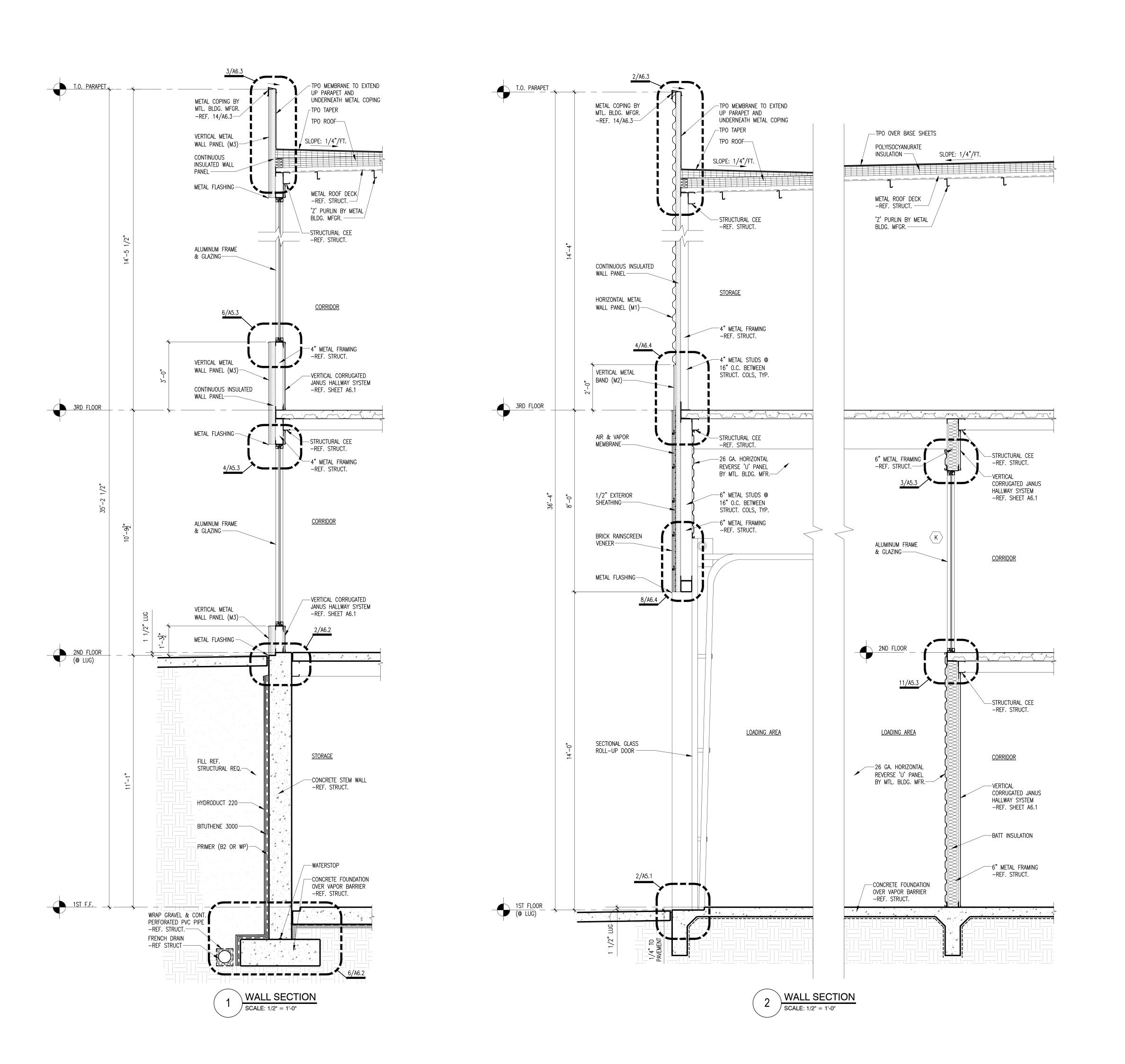
DRAWN:

REVISIONS:

WALL SECTIONS

SHEET NO.

A4.E





DALLENBACH
NUMBER
A-2020036988

HORAGE ENDER DE LA COMPANSION DE PORT DRIVE

PROJECT NO. 2035

DATE: 12.16.2021

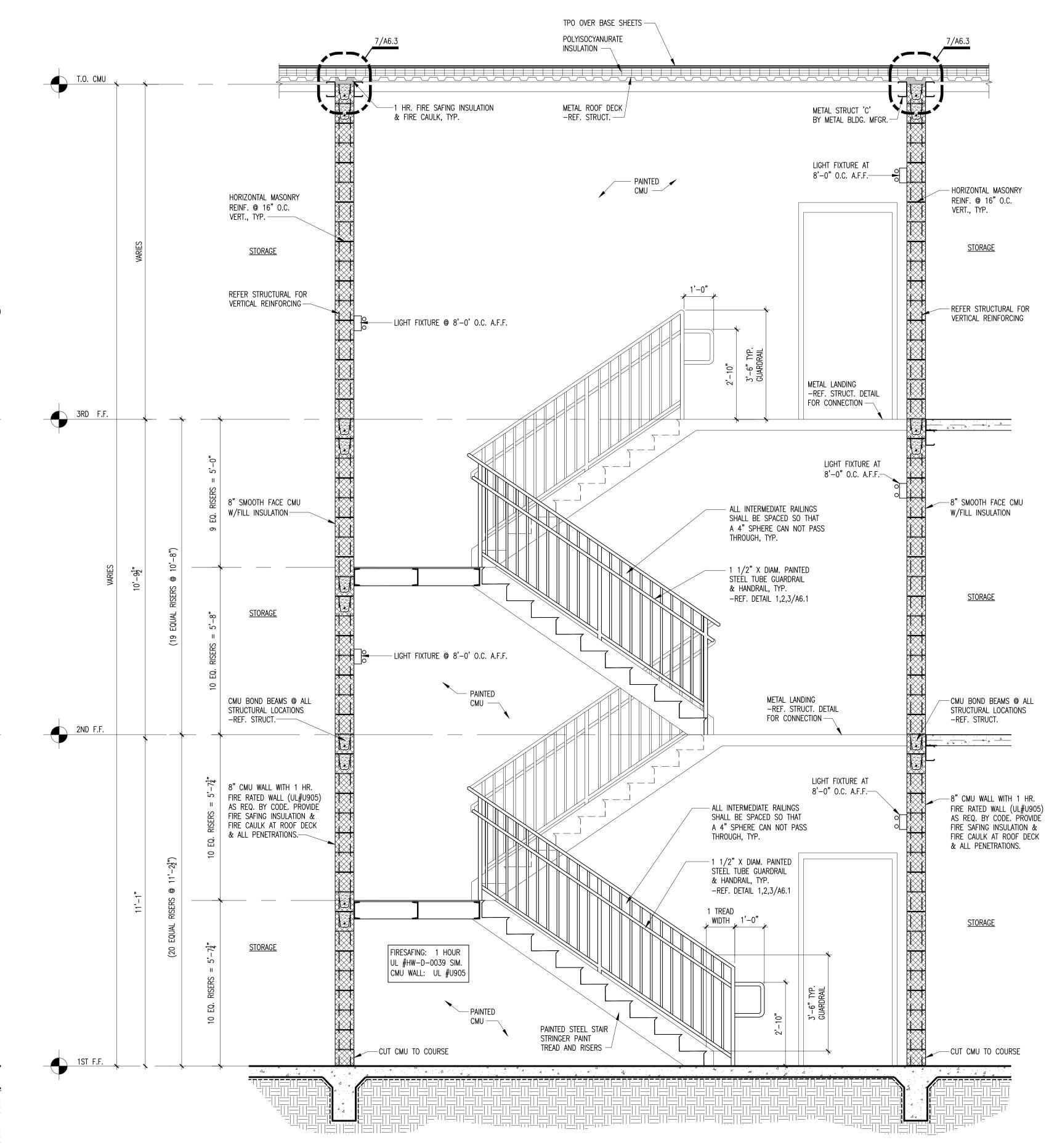
DRAWN: VP

REVISIONS:

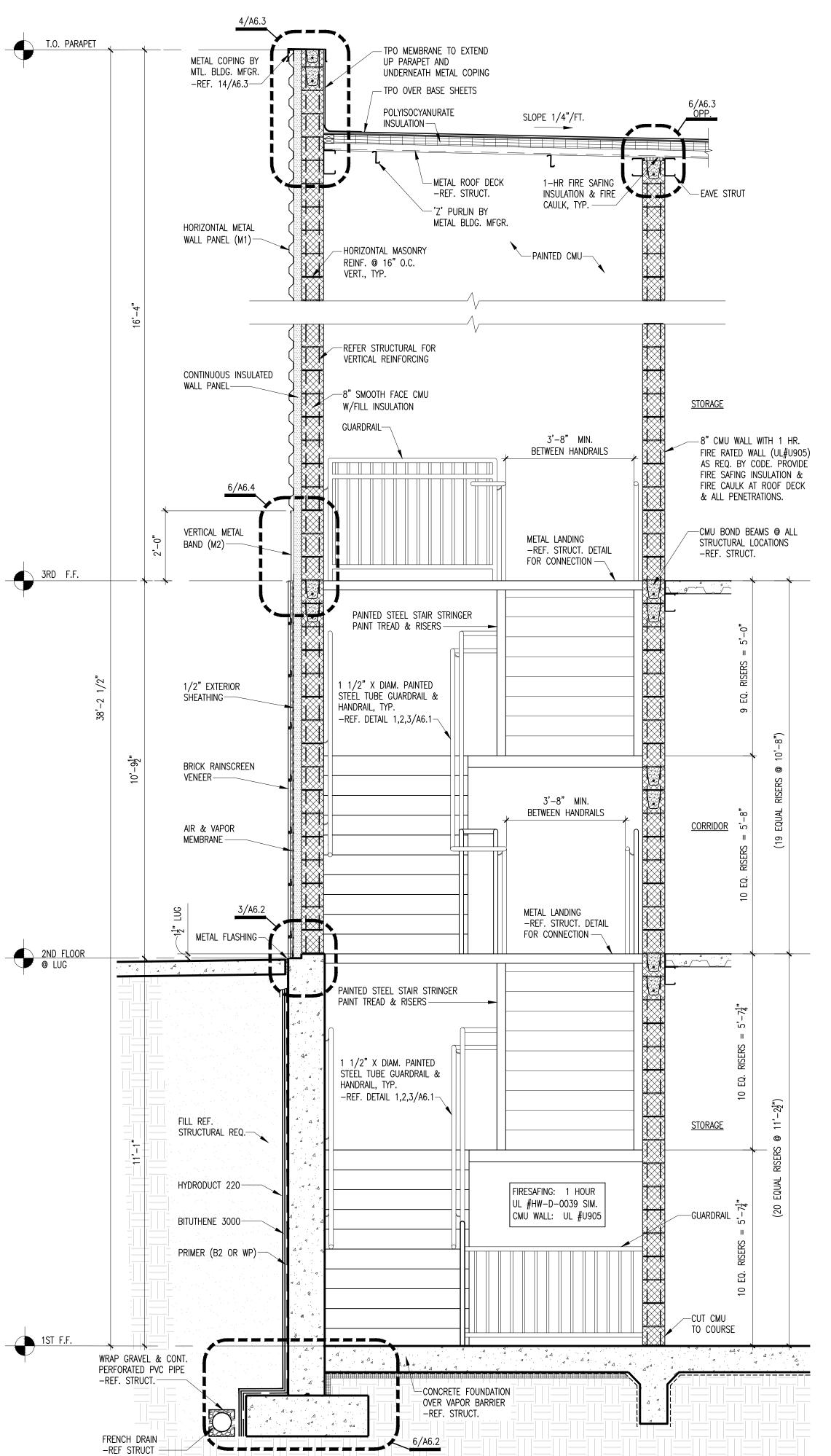
STAIR A SECTIONS

SHEET NO.

A4.5



STAIR A SECTION



STAIR A SECTION

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

DATE: 12.16.2021

DRAWN: VP

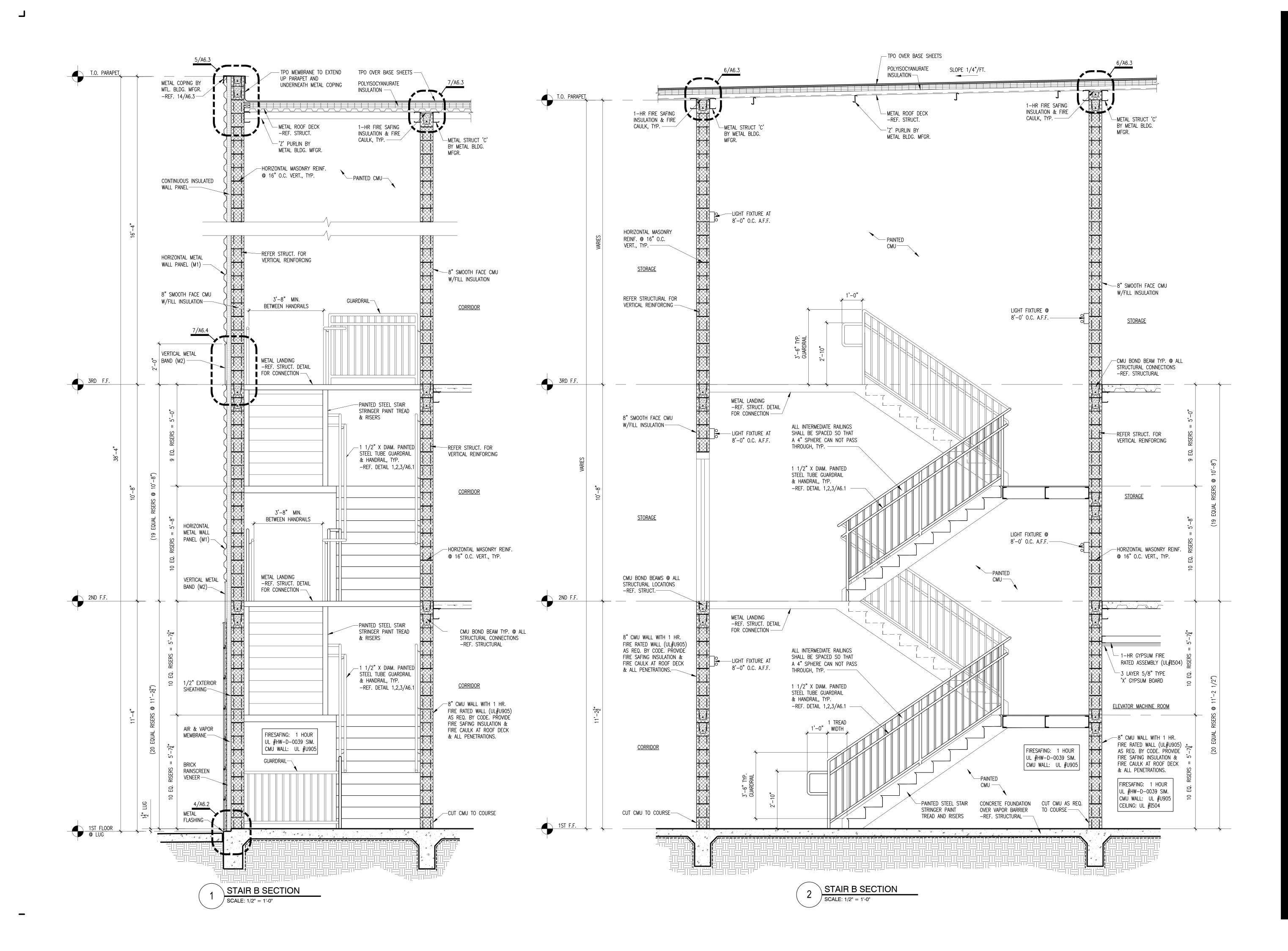
PEVISIONS:

REVISIONS:

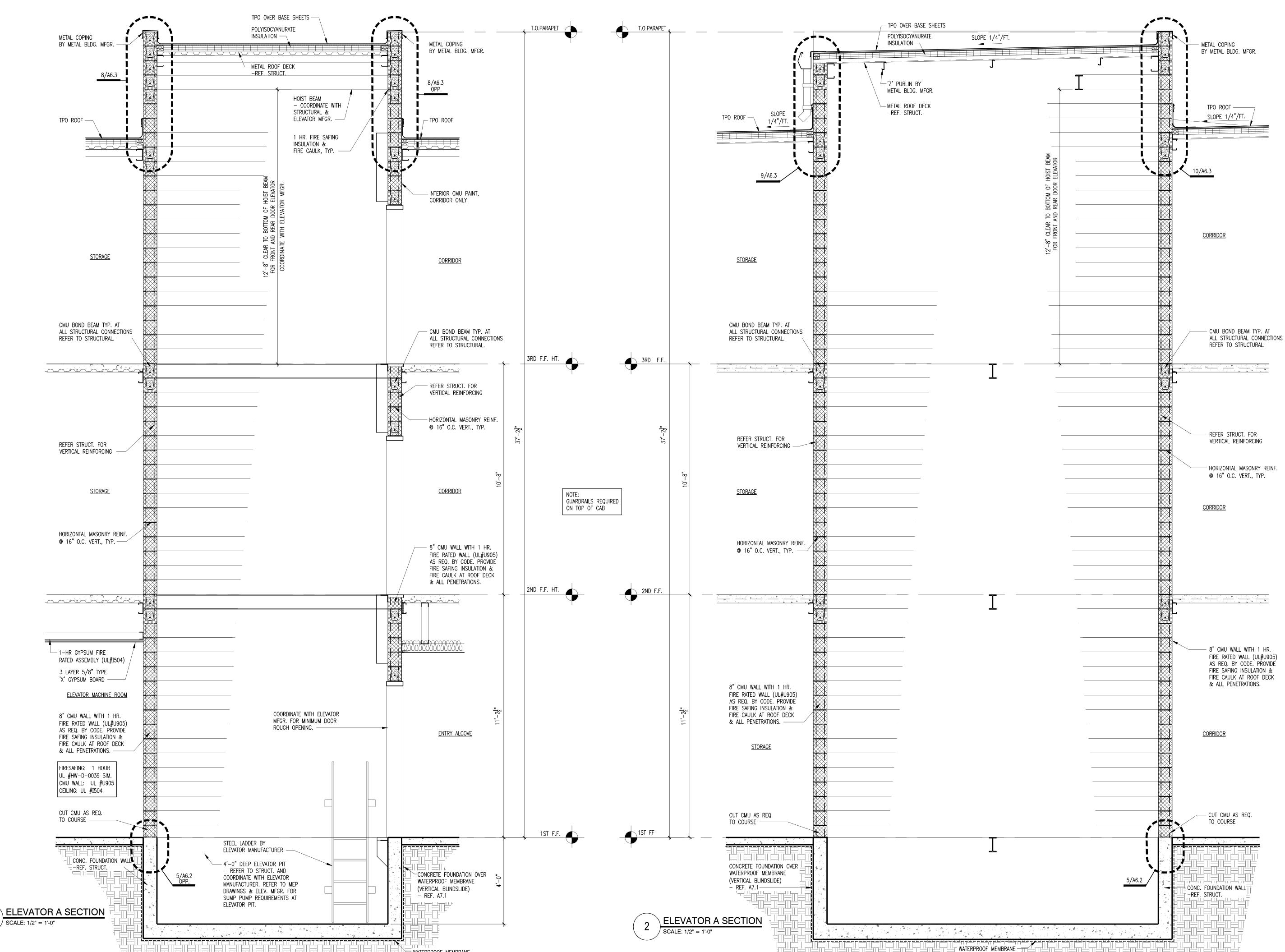
STAIR B SECTIONS

SHEET NO.

A4.10



A4.



WATERPROOF MEMBRANE

RELEASED FOR

DRAWN:

23: MAIL-SLOT 24: KICKPLATE ON PUSH SIDE

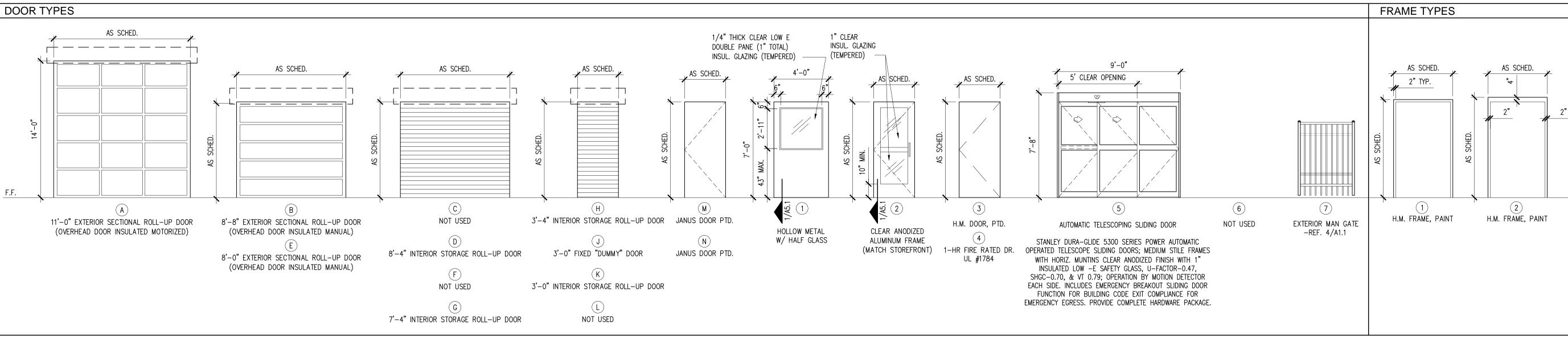
25: MAN GATE KEYSET 26: NOT USED 27: RIGHT HAND OPENING 28: INSULATED SECTIONAL ROLL-UP DOOR

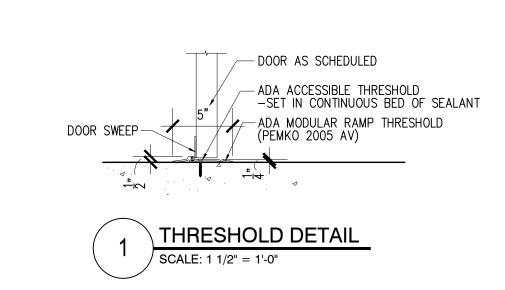
29: CLASP ON LATCH PUSH SIDE 30: LEFT HAND OPENING

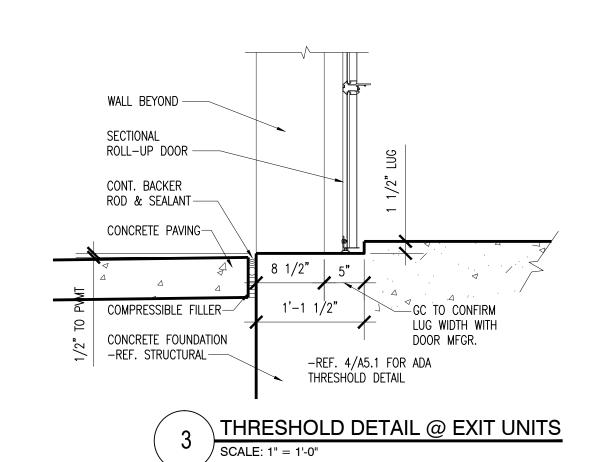
20: DOOR SIGNAGE @ IDENTIFYING ROOMS REVISIONS: (REF. NOTE 12) A CITY COMMENTS 21: STANLEY ACCESS CONTROL 01.20.2022 (PANIC BAR & ELECTRIC LOCK) 22: STANLEY TIMER

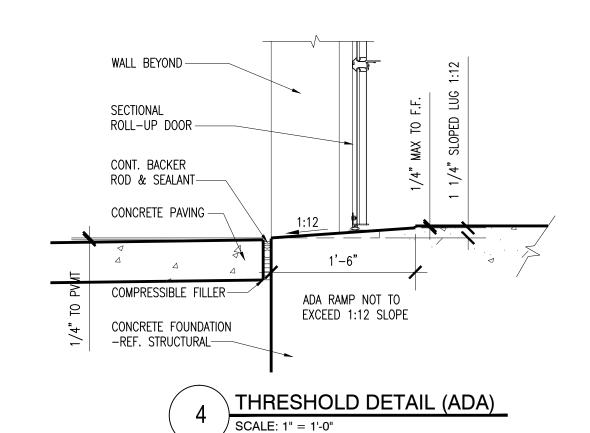
> WDW/DOOR SCHEDULES

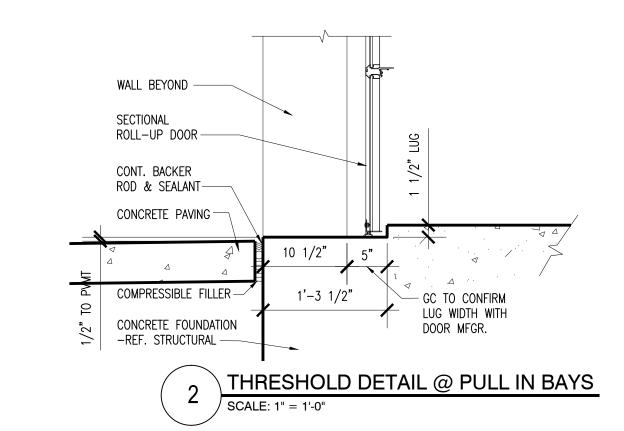
SHEET NO.











FI	NIS	SH SCHEDULE									
			FLO	OR		WALLS			CEIL	ING	KEYED
	FIF	RST FLOOR	MATERIAL	BASE	NORTH	SOUTH	EAST	WEST	HEIGHT	TYPE	NOTES
	101	SALES AREA	PC	WD	PT-1	PT-1	-	PT-1	-	ES	-
	102	RECEPTION DESK	PC	WD	PT-1	PT-1	PT-1/PT-2	-	VARIES	GYP.	-
	103	MDF / BREAK ROOM	PC	RUBBER	PT-1	PT-1	PT-1	PT-1	8'-0"	LAY-IN	2
CE	104	AHU ROOM	PC	-	PT-1	PT-1	PT-1	PT-1	-	ES	-
	105	DISPLAY AREA	PC	WD	PT-1	PT-1	PT-1	PT-1	-	ES	3
_	106	MENS T.R.	PFT	-	PT-1/PWT	PT-1/PWT	PT-1/PWT	PT-1/PWT	8'-0"	GYP.	1,2
	107	WOMENS T.R.	PFT	-	PT-1/PWT	PT-1/PWT	PT-1/PWT	PT-1/PWT	8'-0"	GYP.	1,2
	108	DRINKING FOUNTAIN	PC	-	JANUS	JANUS	JANUS	JANUS	-	ES	-
	109	LOADING AREA	SLT	-	JANUS	JANUS	JANUS	JANUS	-	ES	-
1 2 3	1. PC 2. AC 3. DU GENE A. G	ED NOTES: DRCELAIN TILE WAINSO COUSTICAL BATT INSUI JMMY DOORS PER FLC ERAL NOTES: ENERAL CONTRACTOR NISH SELECTIONS TO	LATION ABO OOR PLANS.	· ALL	<b>3</b> .	LEGEND: ES GRID GYP JANUS LAY-IN PC PFT	2X2 CEIL 5/8" TYPI JANUS V 2x2 LAY- POLISHE	D STRUCTI LING GRID ( E 'X' GYPSI VALL SYSTI IN ACOUST D CONCRE AIN FLOOR	ONLY JM BOARD EM FICAL CEILIN	NG	

PT-2

WD

SLT

RUBBER

INTERIOR OFFICE PAINT

PORCELAIN WALL TILE

RUBBER WALL BASE

PAINTED WOOD BASE

INTERIOR OFFICE PAINT - ACCENT

SEALANT WITH TRAFFIC COATING

1" INSULATED ALUM. STOREFRONT  2  4"  CONT. BACKER ROD & SEALANT  F.F.	
COMPRESSIBLE FILLER	
5 STOREFRONT DETAIL  SCALE: 1 1/2" = 1'-0"	

DOOR NOTES
1: DOOR HARDWARE TO BE APPROVED BY OWNER BASED ON SUBCONTRACTOR SUBMITTAL.
2: CONTRACTOR TO COORDINATE DOOR HARDWARE AND FRAMES WITH SECURITY EQUIPMENT AND MAGNETIC HOLD OPEN DEVICES.
3: PROVIDE MIN. INTERIOR & EXTERIOR ACCESSIBLE HARDWARE, THRESHOLDS, SIGNAGE, ETC. TO COMPLY W/ ADA ACCESSIBILITY STANDARDS. REFERENCE FLOOR PLANS FOR LOCATIONS.
4: NOT USED
5: NOT USED
6: STORAGE ROLL-UP DOORS-PROVIDE ALUM. HANDLES W/ SLIDE BAR LATCH TO FRAME, CONTINUOUS ALUM. BOTTOM PULL BAR, WEATHER SEALS (EXTERIOR) AND REMOVABLE CYLINDER LOCK W/ EMERGENCY OVERRIDE LATCH OPERATOR TO OPERATOR.
7: GLAZING IN ALL EXTERIOR DOORS TO BE INSULATED LOW-E GLAZING W/ 1/4" DOUBLE PANES W/ 1/2" AIR SPACE (1" TOTAL) (TEMPERED).
8. THRESHOLDS $1\frac{1}{2}$ " LUGS NOT REQUIRED AT ALCOVE ENTRIES.
9. READILY VISIBLE DURABLE SIGN POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" -REF. SHEET A2.6 FOR INSTALLATION INSTRUCTIONS.
10. FIRE RATED DOORS TO BE SELF CLOSING OR AUTOMATIC CLOSING.
11. READILY VISIBLE DURABLE SIGN POSTED ON EGRESS SIDE ADJACENT TO DOOR STATING: "EXIT" IN TACTILE LETTERS & BRAILLE -REF SHEET A2.6 FOR INSTALLATION INSTRUCTIONS.
12. READILY VISIBLE DURABLE SIGN POSTED ON ENTRY SIDE OF

ı			$\sim$				
7: GLAZING IN ALL EXTERIOR DOORS TO BE INSULATED LOW-E GLAZING W/ 1/4" DOUBLE PANES W/ 1/2" AIR SPACE			DOOR SCHEDULE				
(1" TOTAL) (TEMPERED).	LOCATION	MARK	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	
	8. THRESHOLDS 1½" LUGS NOT REQUIRED AT ALCOVE ENTRIES.	OFFICE ENTRY	1	3'-0"	7'-0"	2	STFT
		MDF ROOM	2	3'-0"	7'-0"	3	1
	9. READILY VISIBLE DURABLE SIGN POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR	AHU ROOM	3	3'-0"	7'-0"	3	1
	TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" -REF. SHEET A2.6 FOR INSTALLATION INSTRUCTIONS.	OFFICE / LOADING	4	3'-0"	7'-0"	1	1
		OFFICE / STORAGE	(5)	3'-0"	7'-0"	3	1
	10. FIRE RATED DOORS TO BE SELF CLOSING OR AUTOMATIC CLOSING.	TOILET ROOM	6	3'-0"	7'-0"	3	1
	11. READILY VISIBLE DURABLE SIGN POSTED ON EGRESS SIDE	TOILET ROOM	7	3'-0"	7'-0"	3	1
	ADJACENT TO DOOR STATING: "EXIT" IN TACTILE LETTERS &	SLIDING DOOR	8	9'-0"	7'-8"	5L	-
	BRAILLE -REF SHEET A2.6 FOR INSTALLATION INSTRUCTIONS.	LOADING EXIT	9	3'-0"	7'-0"	1	1
	12. READILY VISIBLE DURABLE SIGN POSTED ON ENTRY SIDE OF DOOR STATING "ROOM NAME" IN TACTILE LETTERS AND	STAIR B - 1ST FLR	10	3'-0"	7'-0"	4	1
	BRAILLE - REF. SHEET A2.6 FOR INSTALLATION INSTRUCTIONS.	STAIR B - EXIT	11)	3'-0"	7'-0"	3	1
	13. ROLL UP DOORS TO MEET LOCAL WIND LOAD REQUIREMENTS.	ELEV. MACHINE RM	12	3'-6"	7'-0"	3	1
	14. CONSTRUCTION CORES TO REMAIN - REKEYING/MASTER	ELECTRICAL ROOM	13	3'-0"	7'-0"	3	1
	KEYING BY OWNER	FIRE RISER ROOM	14)	6'-0" PR	7'-0"	3	1
	15. 3'-0" CLEAR MAN GATE - ORNAMENTAL IRON APPLIED METAL SECURITY	SLIDING DOOR	15)	9'-0"	7'-8"	5R	-
	MESH AT GATE AND ADJACENT FENCE PANEL EXTEND FULL LENGTH OF EITHER SIDE OF LOCKSET. LEVER HARDWARE PER ADA	STAIR A - 1ST FLR	16	3'-0"	7'-0"	4	2
	REQUIREMENTS.	STAIR A - EXIT	17)	3'-0"	7'-0"	3	2
	16. SLIDING DOOR OPENING TO BE ON SAME SIDE AS MAN DOOR	ALCOVE ENTRY	18	4'-0"	7'-0"	1	1
	ADJACENT.	SLIDING DOOR	19	9'-0"	7'-8"	5R	-

STAIR B - 2ND FLR

MAN GATE

STORAGE DOOR SCHEDULE

(A) | 11'-0" | 14'-0" | EXT. SECT.

B | 8'-8" | 8'-0" | EXT. SECT.

(D) | 8'-4" | 7'-0" | INT. ROLL-UP

(E) | 8'-0" | 8'-0" | EXT. SECT.

G) | 7'-4" | 7'-0" | INT. ROLL-UP

(H) | 3'-4" | 7'-0" | INT. ROLL-UP

(1) 3'-0" | 7'-0" | DUMMY DOOR

(K) 3'-0" 7'-0" INT. ROLL-UP

(M) | 3'-0" | 7'-0" | JANUS SWING (N) 3'-0" 7'-0" JANUS SWING

20 3'-0" 7'-0"

23 3'-0" 6'-0"

2: DOOR CLOSER

8: DRIP FLASHING

11: DOOR STOP

14: TR LOCKSET

15: OFFICE LOCKSET

12: INSULATED

13: KEY PAD

9: FIXED "DUMMY DOORS

10: STORAGE LOCKSET

1: PANIC HARDWARE

3: WEATHER STRIPPING / THRESHOLD

-REF. DETAIL 1/A5.1

4: MAGNETIC HOLD OPEN

DOORS W/ 15 MINUTE TIMER

REMARKS::

STAIR A - 3RD FLR | (21) | 3'-0" | 7'-0"

STAIR B - 3RD FLR | (22) | 3'-0" | 7'-0"

MARK | WIDTH | HEIGHT | DOOR TYPE | FRAME TYPE | REMARKS

NOT USED

NOT USED

NOT USED

17,28

17,28

17

17,28

17

17

9,17

17

17,29

1,2,3,5,8,9,11,15,16,17,18,23

REMARKS

11,14,20,24 11,14,20,24

3,13,19,21,22,30

1,2,6,10,11,19,24

2,3,8,10,11,12,16,20

2,3,8,10,11,12,16,20

3,13,19,21,22,27

1,2,6,10,11,19,24

3,13,19,21,22,27

1,2,6,10,11,19,24

1,2,6,10,11,19,24

1,2,6,10,11,19,24

1,2,24,25

17: COLOR: REF. SHEET A7.1

18: DOOR SIGNAGE @ ENTRY

19: DOOR SIGNAGE @ EXITS

16: DOOR SWEEP

(REF. NOTE 9)

(REF. NOTE 11)

1,2,3,8,10,11,12,16,19,24

1,2,3,4,10,11,12,13,16,19,24

2,6,10,11,20

1,2,3,8,10,11,12,16,19,24

1,2,3,8,10,11,12,16,19,24

11,15,20 7,10,11,20 11,15,20 11,15,20

REQUIREMENTS.
 SLIDING DOOR OPENING TO BE ON SAME SIDE AS MAN DOOR ADJACENT.

17. DOORS TO COMPLY WITH ENERGY CODES SHOWN ON SHEET A7.1.

18. DOORS TO COMPLY WITH LOCAL WIND LOAD CAPACITY.

1" INSULATED ALUM. STOREFRONT  1" 4"
CONT. BACKER CONT. BACKER F.F.
CONC. PAV.
STOREFRONT DETAIL

ARCHITECT FOR APPROVAL PRIOR

B. REF. SHEET A7.1 FOR SPECIFICATIONS.

C. GENERAL CONTRACTOR TO PROVIDE ALLOWANCE

FOR CERAMIC TILE IN ROOMS 101-105 AS AN

TO ORDERING

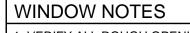
ALTERNATE

DRAWN:

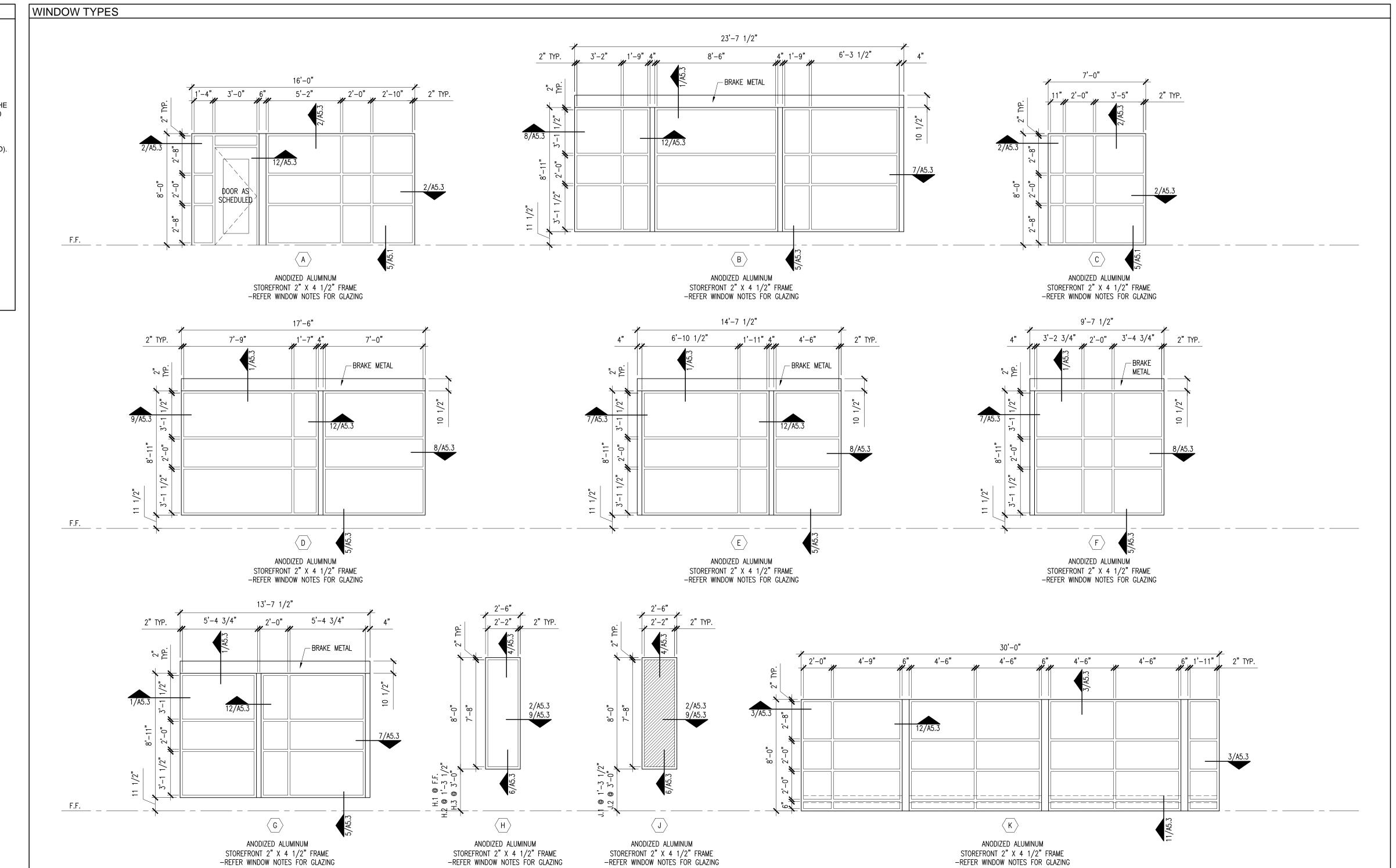
REVISIONS:

WINDOW TYPES

SHEET NO.



- 1. VERIFY ALL ROUGH OPENING DIMENSIONS IN RELATION TO STRUCTURAL DRAWINGS. FRAME SIZES TO BE ADJUSTED AS NECESSARY FOR PROPER SHIM, FLASHING, AND THERMAL EXPANSION.
- 2. SAFETY (TEMPERED) GLAZING IS REQUIRED IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE (IBC 2406.3.6).
- 3. STOREFRONT INSULATED LOW-E GLAZING TO BE 1/4" DOUBLE PANES WITH 1/2" AIR SPACE(1" TOTAL)(TEMPERED).
- 4. EXTERIOR INSULATED LOW-E GLAZING TO BE 1/4" DOUBLE PANES WITH 1/2" AIR SPACE (1" TOTAL) (TEMPERED).
- 5. FLASH AND WEATHERSTRIP ALL EXTERIOR WINDOWS TO PROVIDE WATER RESISTANT ASSEMBLY.
- 6. WINDOW DIMENSION @ FIRST FINISHED FLOOR IS FROM LUG TO SILL.
- 7. WINDOW AND DOOR DIMENSIONS ARE ROUGH OPENINGS. DOORS, FRAMES, WINDOWS, ETC. ARE TO BE SIZED TO ALLOW SHIMS AND TOLERANCES TO MEET INDUSTRY STANDARDS AND THERMAL EXPOSION (DEFINE IN SHOP DRAWINGS).
- 8. STOREFRONTS TO BE ANODIZED ALUMINUM.



SPANDREL GLASS

DATE: 12.16.2021

DRAWN:

REVISIONS:

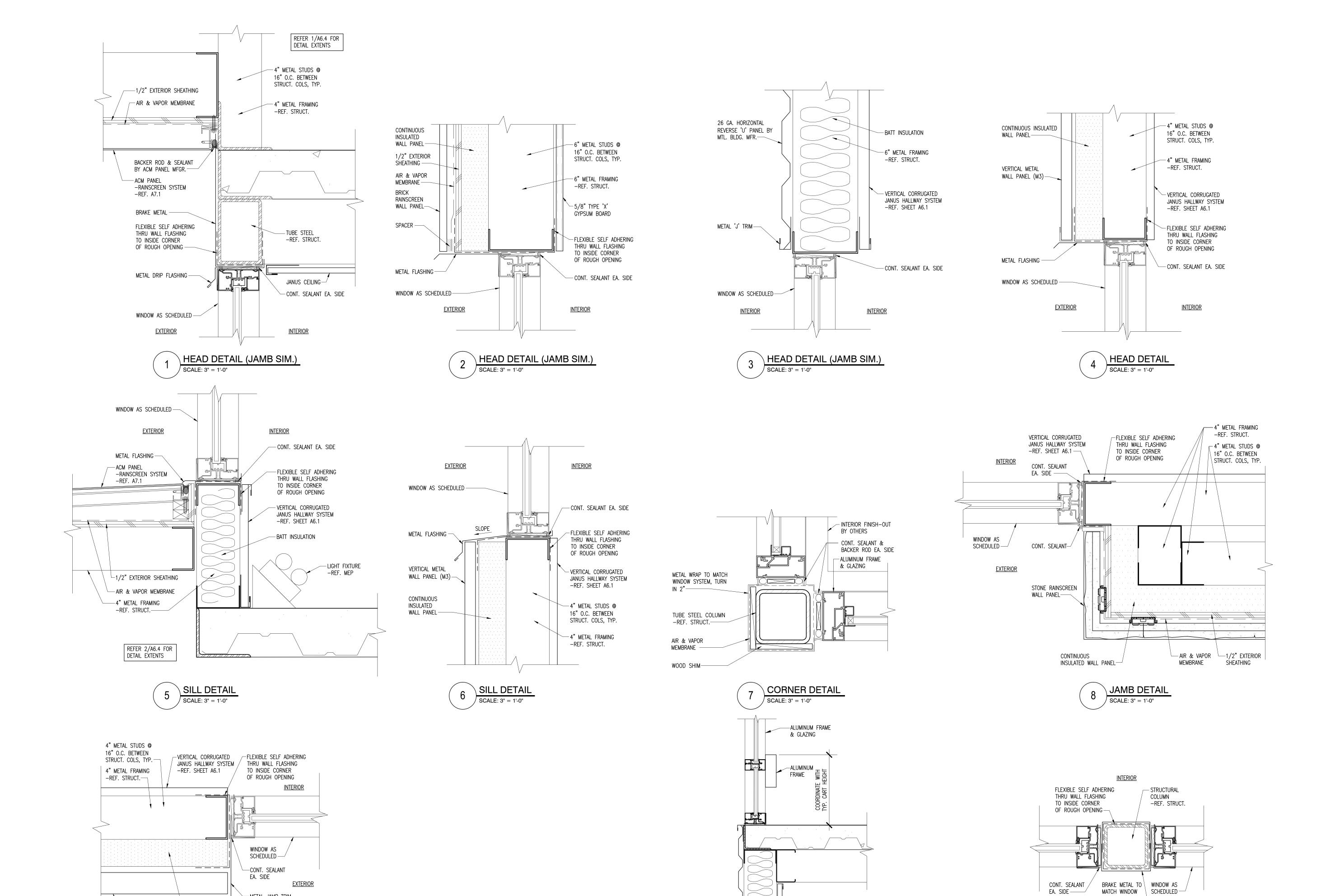
WINDOW DETAILS

SHEET NO.

SYSTEM — **EXTERIOR** 

COLUMN DETAIL

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



CART RAIL SECTION

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

-METAL JAMB TRIM

NOT USED

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

CONTINUOUS INSULATED

JAMB DETAIL

SCALE: 3" = 1'-0"

WALL PANEL

---HORIZONTAL METAL

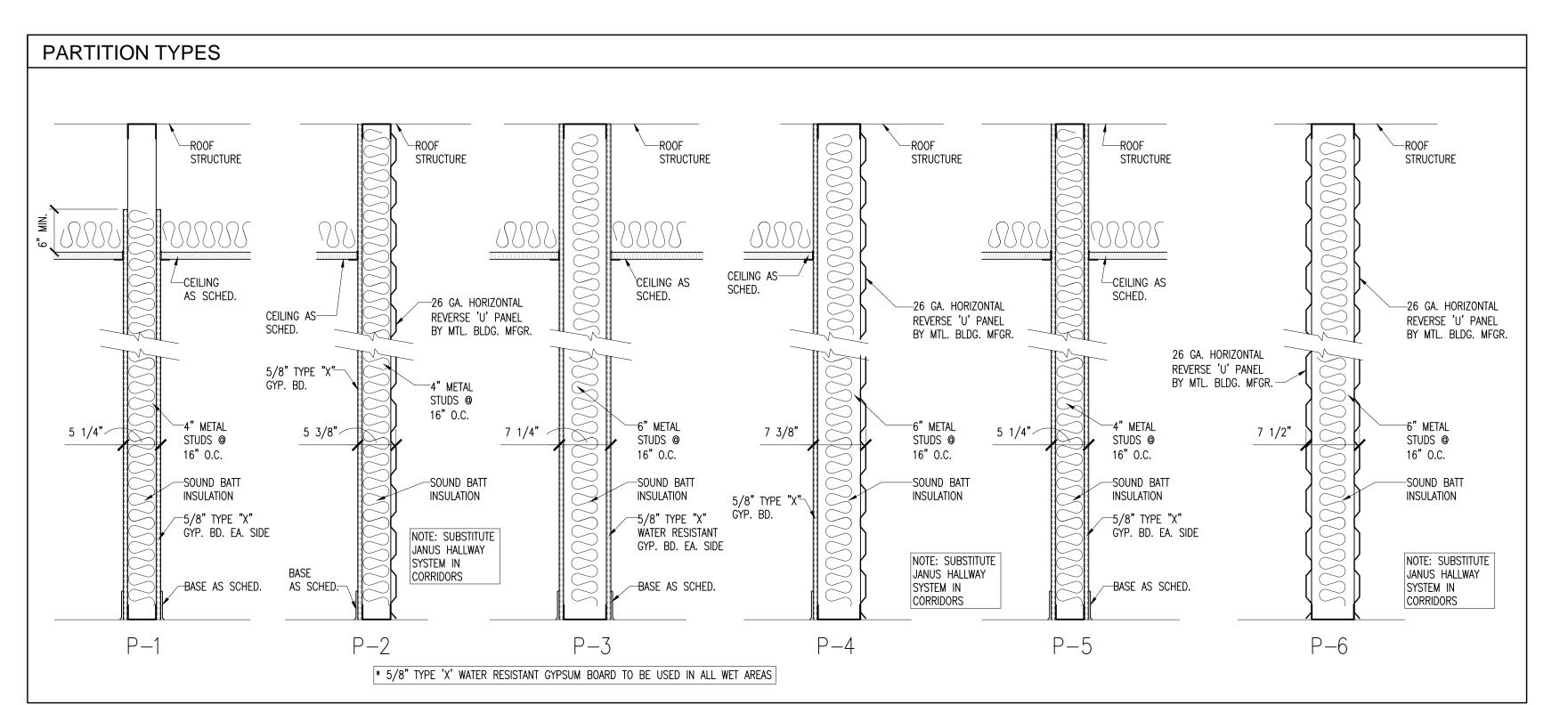
WALL PANEL (M1)

DRAWN:

REVISIONS:

CONTINUOUS RIGID INSULATION ENTIRELY ABOVE ROOF DECK TO BE AT

### WALL INSULATION:



METAL WALL PANELS TO STEP 8" BELOW

STRUCTURE, TYP. -

NOTE: IF CORRIDOR

COLUMNS @ 8'-6" W/ HORIZONTAL HAT CHANNELS

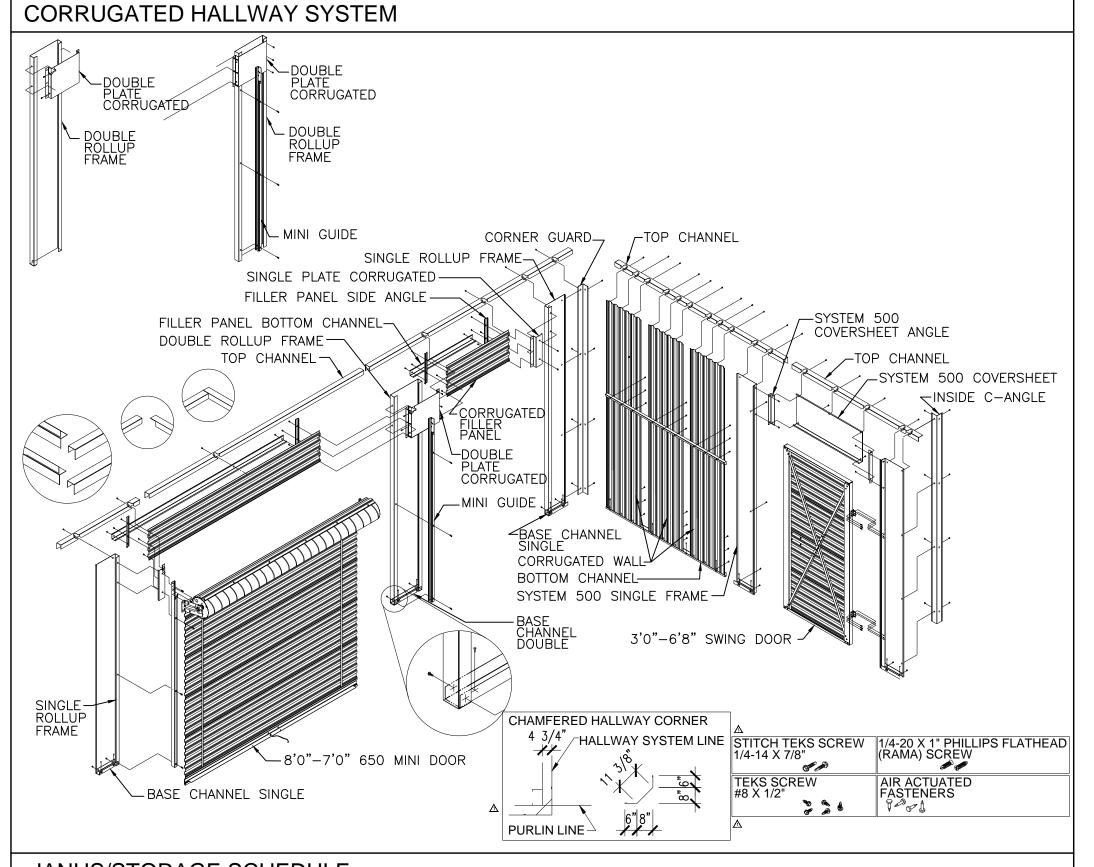
METAL PANEL ON HALLWAY SIDE OF

26 GA. HORIZONTAL -

REVERSE 'U' PANEL BY MTL. BLDG. MFGR.

AT 12" O.C.

CONDITION, PUT CORRUGATED



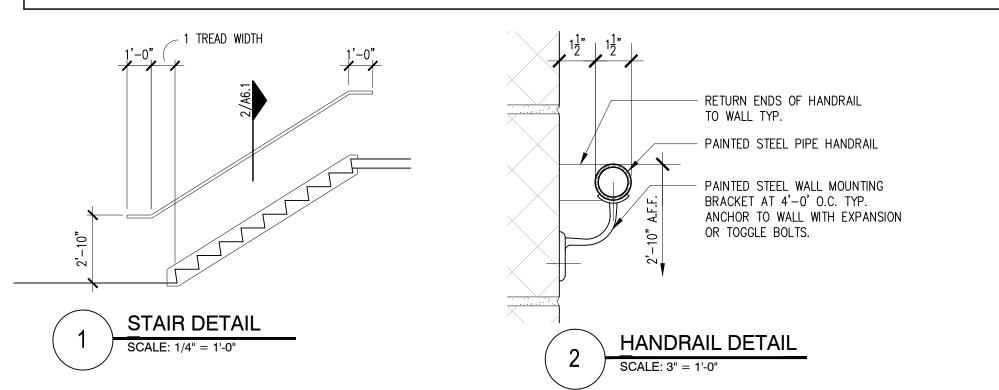
### JANUS/STORAGE SCHEDULE

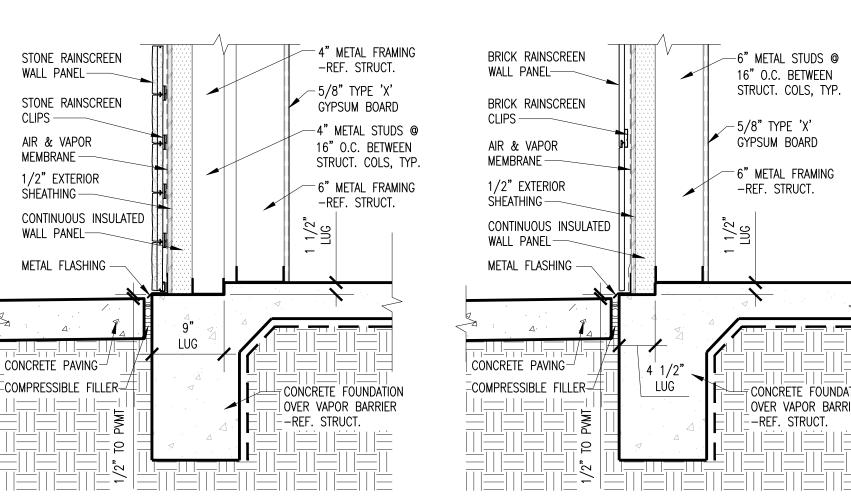
FOUNDATION DETAIL

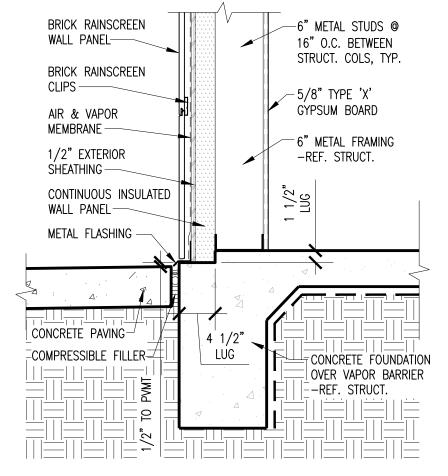
SCALE: 1" = 1'-0"

	CORRIDOR FLOOR	JANUS WALLS	COLOR	CORNERS	CMU WALLS	CEILING	CEILING HEIGHT	
1ST FLOOR	POLISHED CONCRETE	CORRUG.	WHITE	CHAMFERED	PAINTED	NONE	-	
2ND FLOOR	POLISHED CONCRETE	CORRUG.	WHITE	CHAMFERED	PAINTED	NONE	-	
-DISPLAY AREA	-	FLUSH	WHITE	CHAMFERED	-	FLUSH	10'-9"	
3RD FLOOR	POLISHED CONCRETE	CORRUG.	WHITE	CHAMFERED	PAINTED	NONE	-	

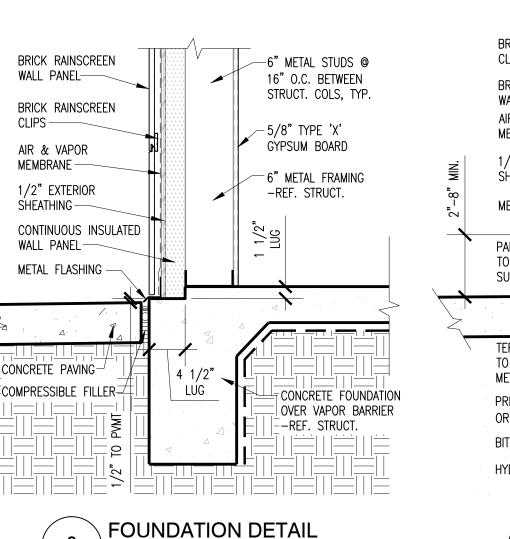
- 1. CHAMFERED CORNERS TO HAVE DIAMOND PLATE TO 4' @ F.F. & 12" BASE IN HIGH TRAFFIC AREA COLOR: WHITE 2. DOOR COLOR CHOICES ON A7.1
- 3. CORRIDOR METAL WALL PANELS TO BE 8'-6" WITH HAT CHANNELS SPACED @ 12" O.C. ABOVE.

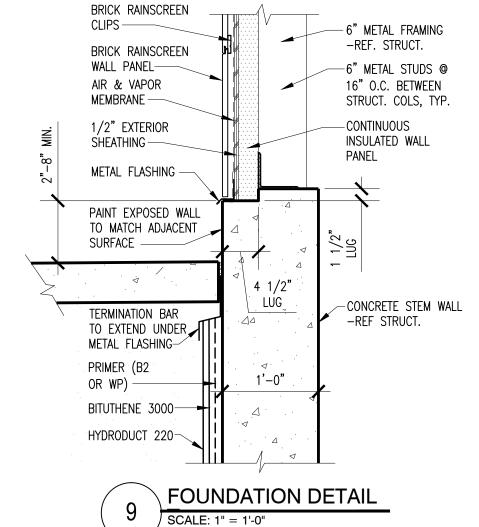






SCALE: 1" = 1'-0"





-1 1/2" X DIA. PAINTED STEEL TUBE GUARDRAIL &

- ALL RAILINGS ABOVE 34" SHALL BE SPACED SO THAT A 8" SPHERE CAN NOT PASS

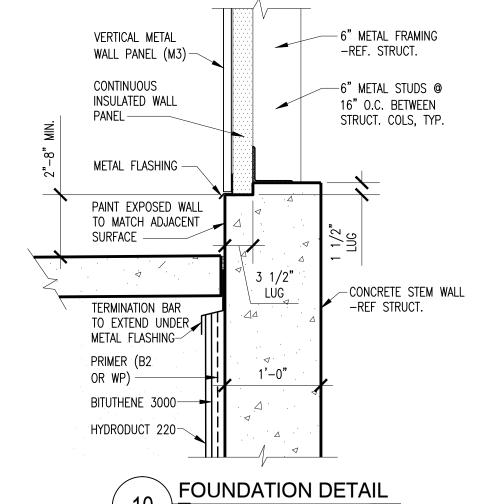
- VERTICAL INTERMEDIATE PICKETS SHALL BE SPACED SO THAT A 4" SPHERE CAN

HANDRAIL DETAIL

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

NOT PASS THROUGH, TYP.

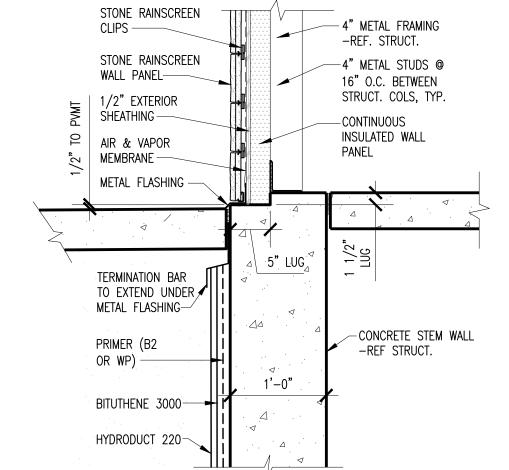
HANDRAIL, TYP.



NOT USED

SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



FOUNDATION DETAIL SCALE: 1" = 1'-0"

**GENERAL NOTES** 

CONCRETE DECK OR METAL ROOF PANEL

- VINYL FACED INSULATION

4" STRUCT. 'C' COLUMNS

- BASE CLIP & ANCHORS BY MTL. BLDG. MFGR.

BY METAL MFGR.

PARTITION/COL. CONNECTION

'Z' PURLIN BY

METAL MFGR.

. ALL ENGINEERING, SIZING, CONNECTIONS, FASTENERS, AND DETAILING NOT PROVIDED ON STRUCTURAL DRAWINGS TO MEET LOCAL BUILDING CODES AND ARE TO BE PROVIDED BY METAL BUILDING MANUFACTURER.

NOT USED

SCALE: 1" = 1'-0"

CLOSURES, TAPE SEALER AND ALL OTHER WATERPROOFING MATERIALS TO BE PROVIDED BY METAL BUILDING MANUFACTURER TO ENSURE WATER TIGHT CONSTRUCTION.

3. STORAGE CORRIDOR FLOORS TO BE POLISHED CONCRETE. (NOT STORAGE UNITS)

4. CORRIDOR METAL WALL PANELS TO BE 8'-6" WITH HAT CHANNELS SPACED @ 12" O.C. ABOVE.

METAL PANELS INSIDE STORAGE UNITS TO EXTEND TO 8" BELOW THE UNDERSIDE OF THE DECK ABOVE, STEP WALL HEIGHT WHERE NECESSARY.

6. ALL EXTERIOR SHEATHING 1/2" DENSGLASS GOLD WITH AIR AND MOISTURE MEMBRANE, UNLESS NOTED OTHERWISE ON A7.1.

ROOF INSULATION: R-25.5 @ TPO ROOF

R-25 + 1/2" COVERBOARD

- 8" CMU FILL CELLS TO R-11 STORAGE
- 6" METAL STUDS R-19 BATT INSULATION IN WALLS 1ST FLOOR
- 4" METAL STUDS R-11 BATT INSULATION IN WALLS 2ND/3RD FLOOR

PROJECT NO. DATE: 12.16.2021

BUILDING

DETAILS

SHEET NO.

DATE: 12.16.2021

DRAWN:

**REVISIONS:** 

6. ALL EXTERIOR SHEATHING 1/2" DENSGLASS GOLD WITH AIR AND MOISTURE

MEMBRANE, UNLESS NOTED OTHERWISE ON A7.1.

 CONTINUOUS RIGID INSULATION ENTIRELY ABOVE ROOF DECK TO BE AT R-25 + 1/2" COVERBOARD

ALL ENGINEERING, SIZING, CONNECTIONS, FASTENERS, AND DETAILING

NOT PROVIDED ON STRUCTURAL DRAWINGS TO MEET LOCAL BUILDING

MATERIALS TO BE PROVIDED BY METAL BUILDING MANUFACTURER

4. CORRIDOR METAL WALL PANELS TO BE 8'-6" WITH HAT CHANNELS

UNDERSIDE OF THE DECK ABOVE, STEP WALL HEIGHT WHERE

METAL PANELS INSIDE STORAGE UNITS TO EXTEND TO 8" BELOW THE

CLOSURES, TAPE SEALER AND ALL OTHER WATERPROOFING

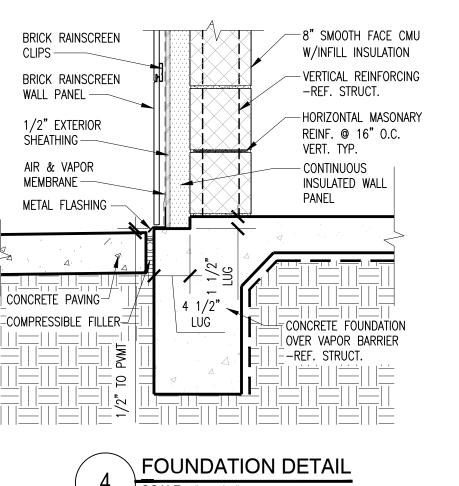
3. STORAGE CORRIDOR FLOORS TO BE POLISHED CONCRETE.

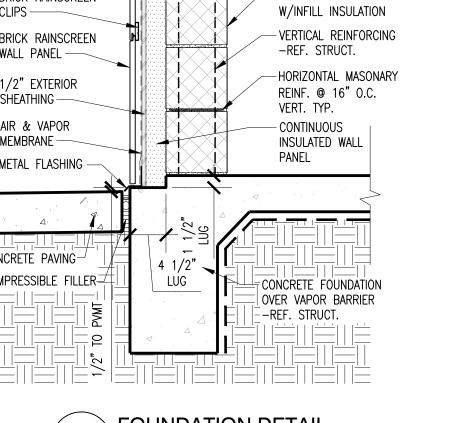
TO ENSURE WATER TIGHT CONSTRUCTION.

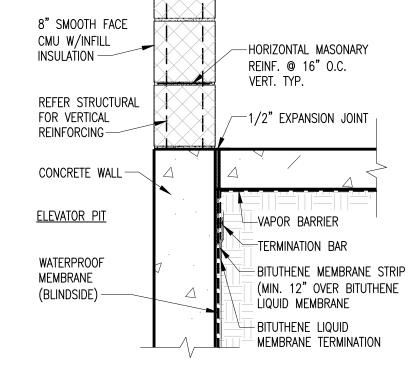
CODES AND ARE TO BE PROVIDED BY METAL BUILDING MANUFACTURER.

### WALL INSULATION:

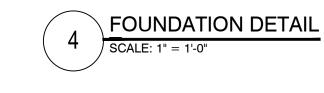
- 8" CMU FILL CELLS TO R-11 STORAGE
- 6" METAL STUDS R-19 BATT INSULATION IN WALLS 1ST FLOOR

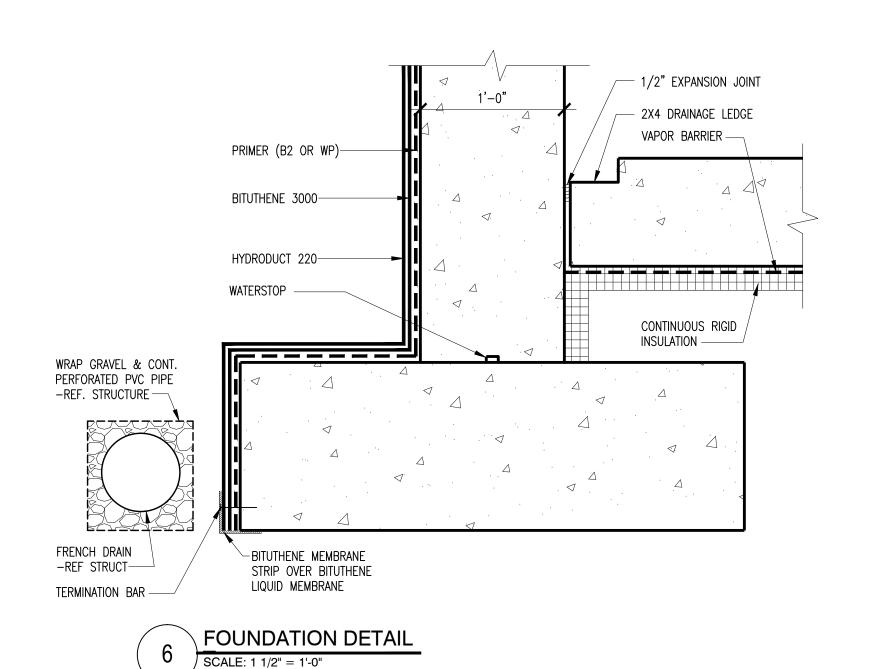






**FOUNDATION DETAIL** SCALE: 1" = 1'-0"





BRICK RAINSCREEN

BRICK RAINSCREEN

WALL PANEL—

1/2" EXTERIOR

SHEATHING —

AIR & VAPOR

METAL FLASHING -

TERMINATION BAR

METAL FLASHING-

BITUTHENE 3000-

HYDRODUCT 220

PRIMER (B2

OR WP) -

TO EXTEND UNDER

MEMBRANE -

-REF. STRUCT.

-4" METAL STUDS @

STRUCT. COLS, TYP.

-CONCRETE STEM WALL

-REF STRUCT.

FOUNDATION DETAIL

SCALE: 1" = 1'-0"

16" O.C. BETWEEN

CONTINUOUS

INSULATED WALL

VERTICAL METAL

CONTINUOUS

INSULATED WALL

METAL FLASHING —

TERMINATION BAR

METAL FLASHING-

BITUTHENE 3000-

HYDRODUCT 220

PRIMER (B2

OR WP) -

TO EXTEND UNDER

WALL PANEL (M3)

— 4" METAL FRAMING

-4" METAL STUDS @

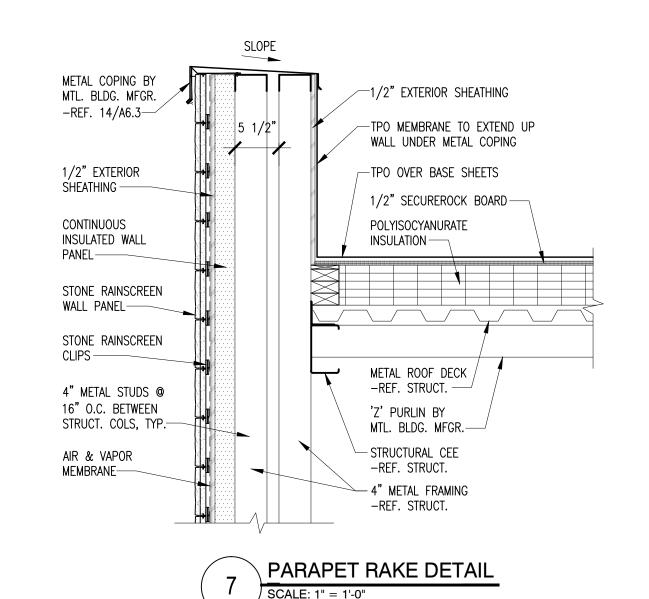
16" O.C. BETWEEN

STRUCT. COLS, TYP.

CONCRETE STEM WALL
-REF STRUCT.

**FOUNDATION DETAIL** 

-REF. STRUCT.



BRICK RAINSCREEN

WALL PANEL-

1/2" EXTERIOR

SHEATHING —

AIR & VAPOR

METAL FLASHING -

TERMINATION BAR

METAL FLASHING-

BITUTHENE 3000

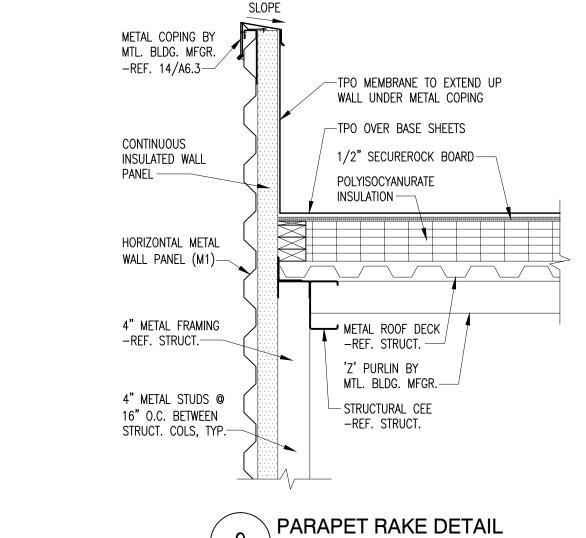
HYDRODUCT 220-

PRIMER (B2

OR WP) -

TO EXTEND UNDER

MEMBRANE —



SCALE: 1" = 1'-0"

**GENERAL NOTES** 

(NOT STORAGE UNITS)

NECESSARY.

SPACED @ 12" O.C. ABOVE.

NOT USED SCALE: 1" = 1'-0"

W/INFILL INSULATION

-REF. STRUCT.

- VERTICAL REINFORCING

-HORIZONTAL MASONARY

-CONTINUOUS INSULATED

REINF. @ 16" O.C.

VERT. TYP.

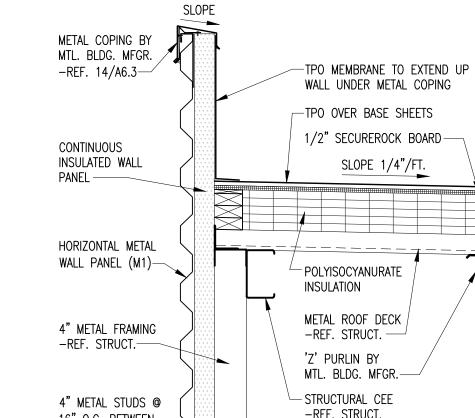
WALL PANEL

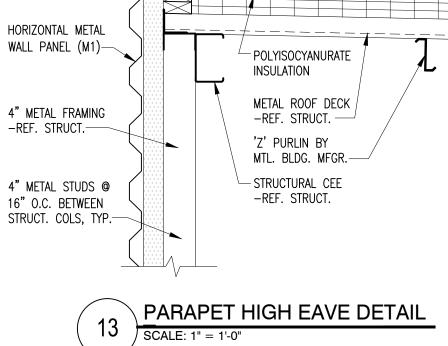
-CONCRETE STEM WALL

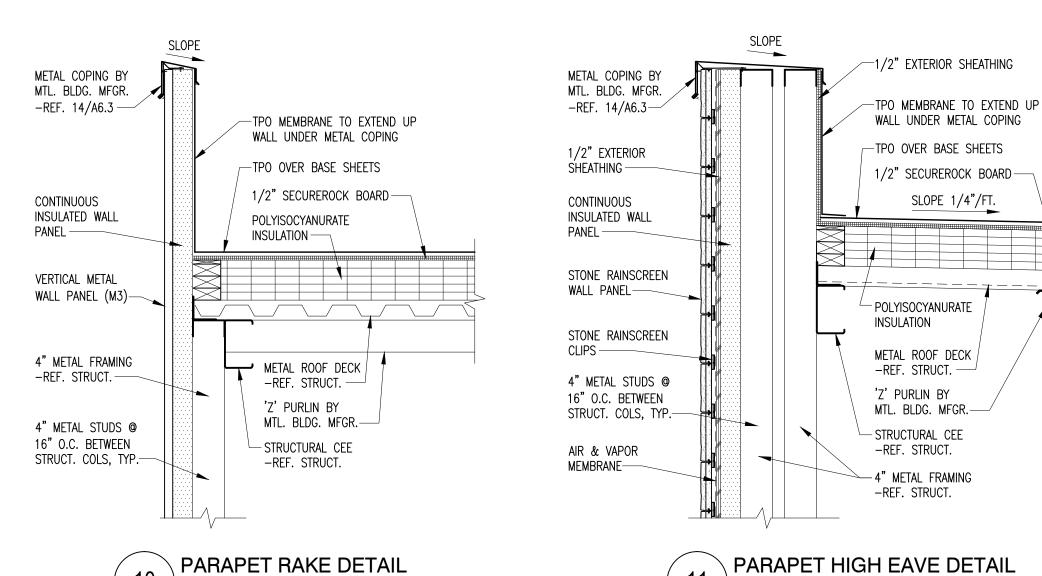
-REF STRUCT.

1'-0 1/2"

FOUNDATION DETAIL







SCALE: 1" = 1'-0"

ROOF INSULATION: R-25.5 @ TPO ROOF

- 4" METAL STUDS R-11 BATT INSULATION IN WALLS 2ND/3RD FLOOR

BUILDING DETAILS

SHEET NO.

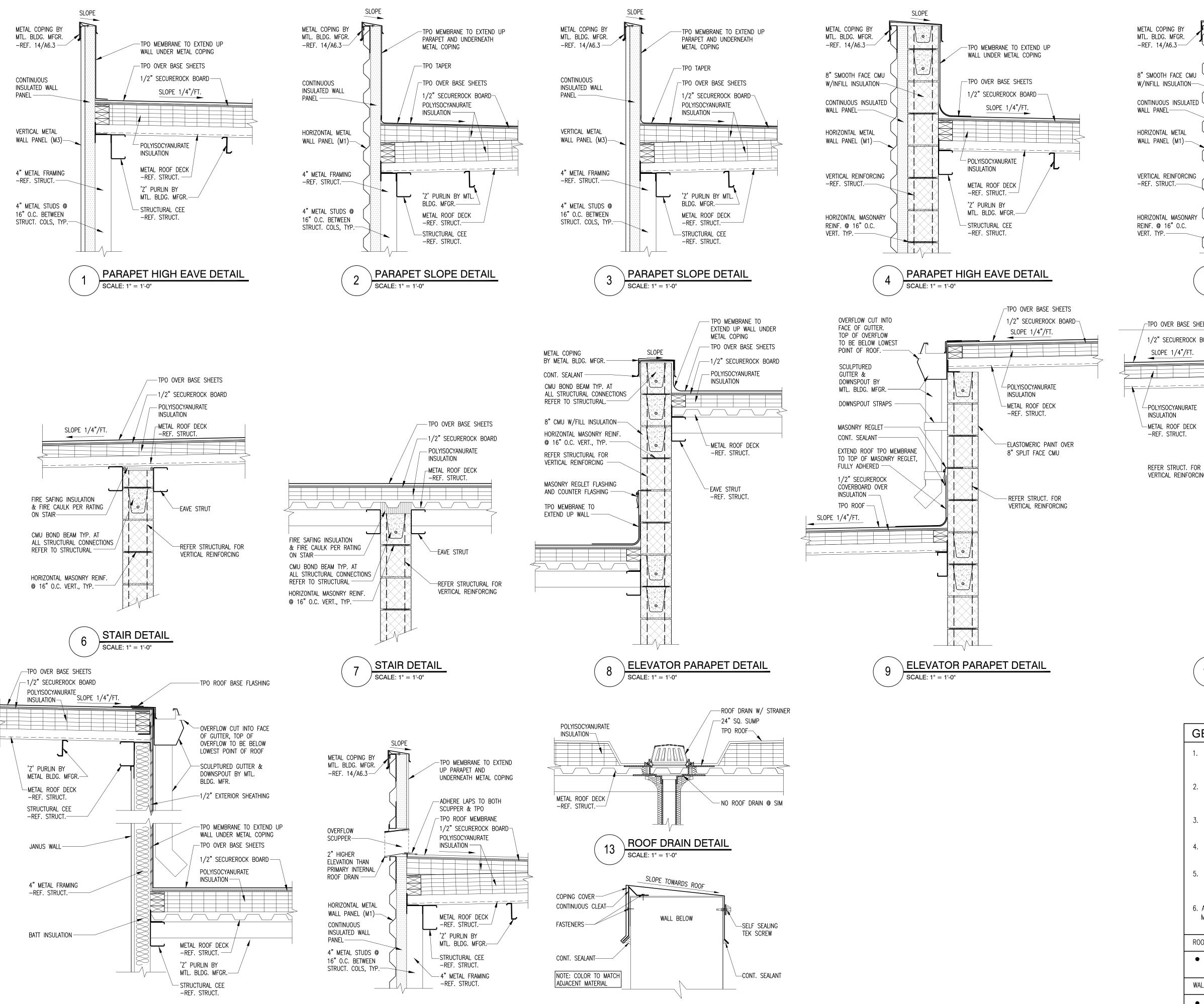
DATE: 12.16.2021

DRAWN:

REVISIONS:

BUILDING DETAILS

SHEET NO.



**OVERFLOW SCUPPER DETAIL** 

ROOF DETAIL

SCALE: 1" = 1'-0"

METAL COPING DETAIL

_____ -POLYISOCYANURATE INSULATION - ELASTOMERIC PAINT OVER 8" SPLIT FACE CMU -METAL ROOF DECK -REF. STRUCT. - MASONRY REGLET – CONT. SEALANT - EXTEND ROOF TPO MEMBRANE REFER STRUCT. FOR TO TOP OF MASONRY REGLET, VERTICAL REINFORCING FULLY ADHERED -1/2" SECUREROCK COVERBOARD OVER INSULATION TPO ROOF SLOPE 1/4"/FT. ______

-TPO MEMBRANE TO EXTEND UP

WALL UNDER METAL COPING

1/2" SECUREROCK BOARD —

TPO OVER BASE SHEETS

POLYISOCYANURATE

METAL ROOF DECK

-REF. STRUCT. —

MTL. BLDG. MFGR.—

'Z' PURLIN BY

- STRUCTURAL CEE

-REF. STRUCT.

PARAPET RAKE DETAIL

SLOPE

TPO OVER BASE SHEETS

1/2" SECUREROCK BOARD-

SLOPE 1/4"/FT.

INSULATION —

GENERAL NOTES

SCALE: 1" = 1'-0"

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- CLOSURES, TAPE SEALER AND ALL OTHER WATERPROOFING MATERIALS TO BE PROVIDED BY METAL BUILDING MANUFACTURER TO ENSURE WATER TIGHT CONSTRUCTION.

**ELEVATOR PARAPET DETAIL** 

- 3. STORAGE CORRIDOR FLOORS TO BE POLISHED CONCRETE. (NOT STORAGE UNITS)
- 4. CORRIDOR METAL WALL PANELS TO BE 8'-6" WITH HAT CHANNELS SPACED @ 12" O.C. ABOVE.
- 5. METAL PANELS INSIDE STORAGE UNITS TO EXTEND TO 8" BELOW THE UNDERSIDE OF THE DECK ABOVE, STEP WALL HEIGHT WHERE NECESSARY.
- 6. ALL EXTERIOR SHEATHING 1/2" DENSGLASS GOLD WITH AIR AND MOISTURE MEMBRANE, UNLESS NOTED OTHERWISE ON A7.1.

ROOF INSULATION: R-25.5 @ TPO ROOF

 CONTINUOUS RIGID INSULATION ENTIRELY ABOVE ROOF DECK TO BE AT R-25 + 1/2" COVERBOARD

WALL INSULATION:

- 8" CMU FILL CELLS TO R-11 STORAGE
- 6" METAL STUDS R-19 BATT INSULATION IN WALLS 1ST FLOOR
- 4" METAL STUDS R-11 BATT INSULATION IN WALLS 2ND/3RD FLOOR

DATE: 12.16.2021

DRAWN:

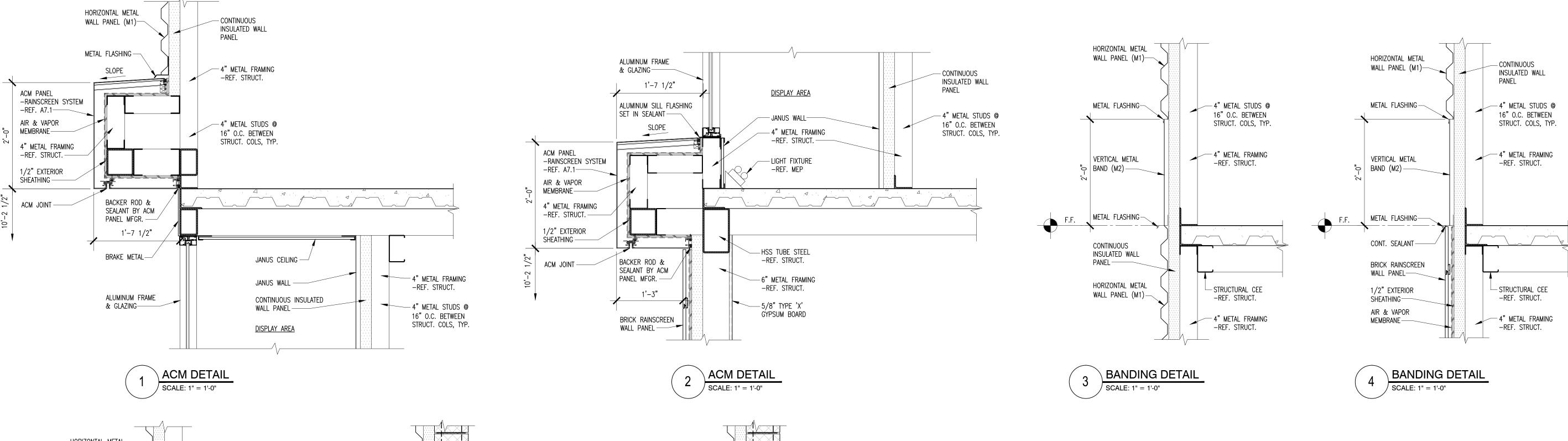
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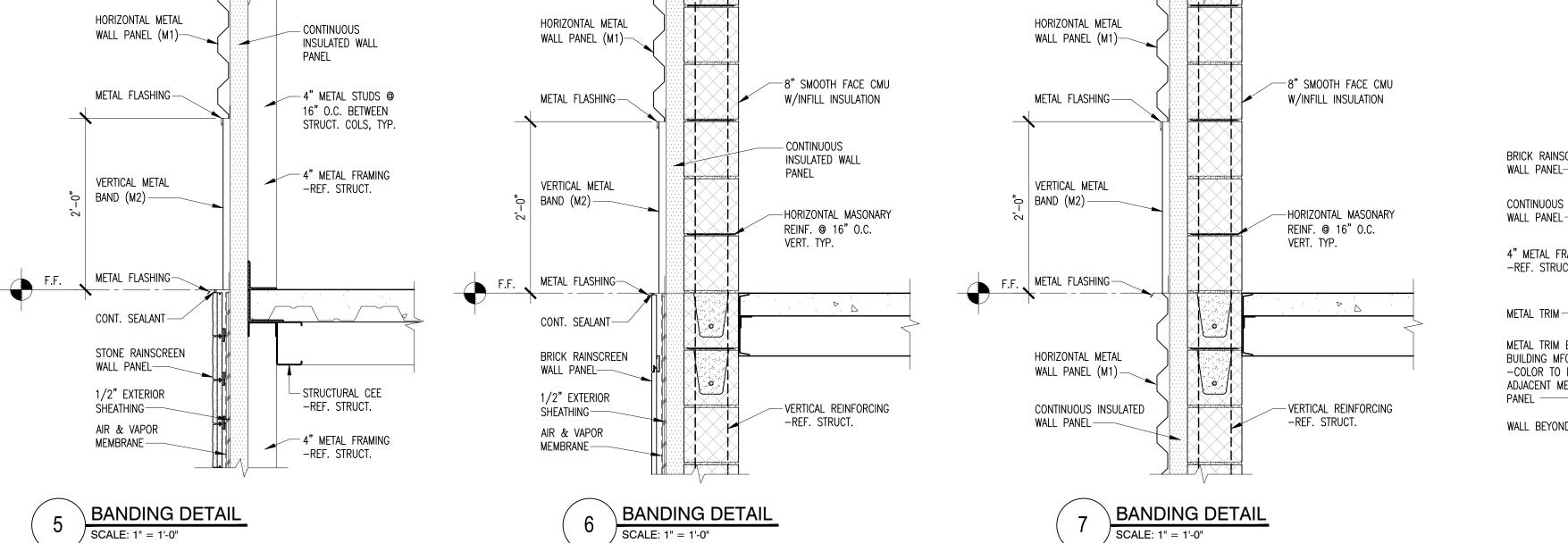
REVISIONS:

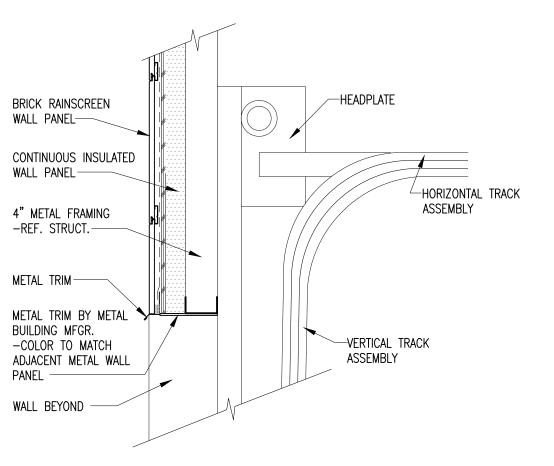
BUILDING DETAILS

SHEET NO.

A6.4







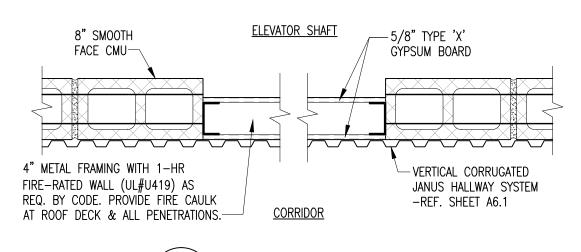
8 ROLL-UP DOOR DETAIL

SCALE: 1" = 1'-0"

-STRUCT. STEEL -REF. STRUCT. BRICK RAINSCREEN — 4" METAL FRAMING WALL PANEL— -REF. STRUCT. CONTINUOUS — BATT INSUALTION INSULATED WALL PANEL — 6" METAL FRAMING -REF. STRUCT.-METAL FLASHING-SOFFIT SYTEM —METAL STUD TO BE WRAPPED WITH METAL TO MATCH SOFFIT PANEL

ALCOVE HEADER DETAIL

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



11 SCALE: 1" = 1'-0"

OFNEDAL NOTES

NOT USED
SCALE: 1" = 1'-0"

GENERAL NOTES

1. ALL ENGINEERING, SIZING, CONNECTIONS, FASTENERS, AND DETAILING NOT PROVIDED ON STRUCTURAL DRAWINGS TO MEET LOCAL BUILDING

2. CLOSURES, TAPE SEALER AND ALL OTHER WATERPROOFING MATERIALS TO BE PROVIDED BY METAL BUILDING MANUFACTURER TO ENSURE WATER TIGHT CONSTRUCTION.

CODES AND ARE TO BE PROVIDED BY METAL BUILDING MANUFACTURER.

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ROOF INSULATION: R-25.5 @ TPO ROOF

 CONTINUOUS RIGID INSULATION ENTIRELY ABOVE ROOF DECK TO BE AT R−25 + 1/2" COVERBOARD

WALL INSULATION:

• 8" CMU - FILL CELLS TO R-11 - STORAGE

• 6" METAL STUDS - R-19 BATT INSULATION IN WALLS - 1ST FLOOR

● 4" METAL STUDS - R-11 BATT INSULATION IN WALLS - 2ND/3RD FLOOR

DATE: 12.16.2021

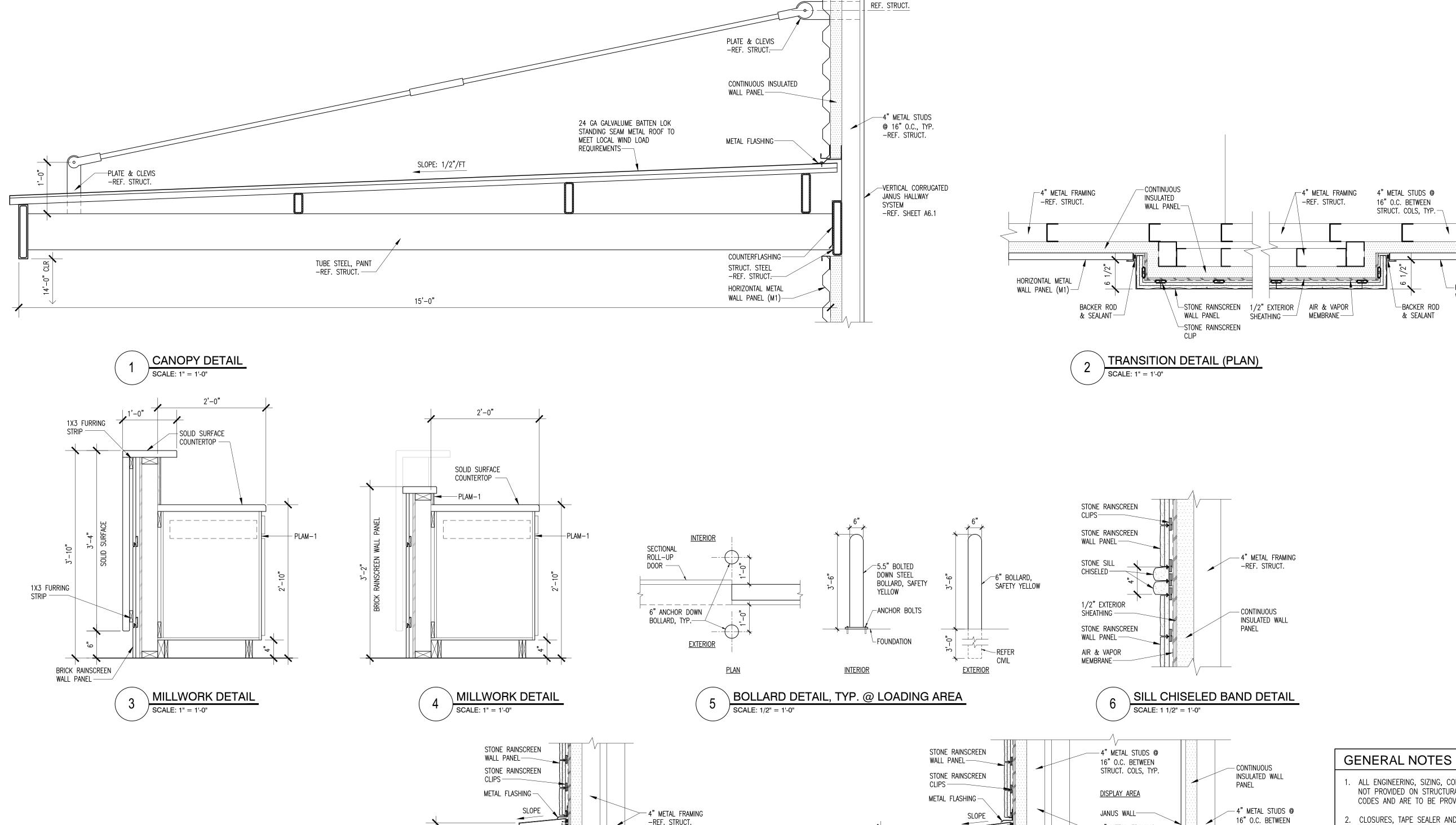
DRAWN:

REVISIONS:

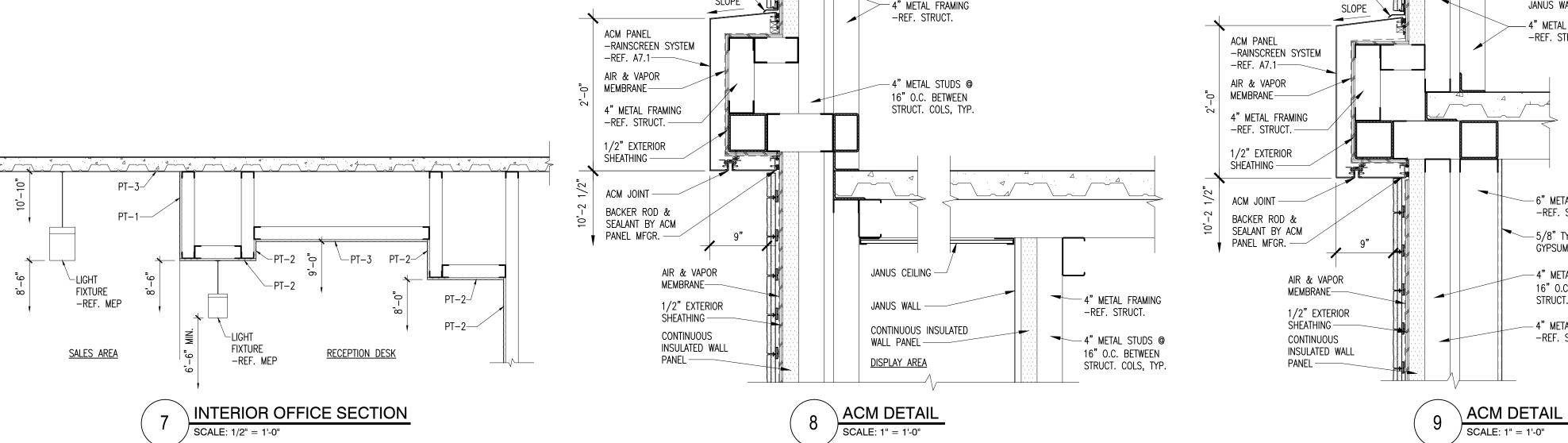
SHEET NO.

• CONTINUOUS RIGID INSULATION ENTIRELY ABOVE ROOF DECK TO BE AT R-25 + 1/2" COVERBOARD

- WALL INSULATION:



HORIZONTAL METAL WALL PANEL (M1)-



STRUCT. COLS, TYP.

- 4" METAL FRAMING

— 6" METAL FRAMING

-REF. STRUCT.

GYPSUM BOARD

−4" METAL STUDS @

16" O.C. BETWEEN

STRUCT. COLS, TYP.

- 4" METAL FRAMING

-REF. STRUCT.

___5/8" TYPE 'X'

-REF. STRUCT. -

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-HORIZONTAL METAL WALL PANEL (M1)

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### ROOF INSULATION: R-25.5 @ TPO ROOF

- 8" CMU FILL CELLS TO R-11 STORAGE
- 6" METAL STUDS R-19 BATT INSULATION IN WALLS 1ST FLOOR
- 4" METAL STUDS R-11 BATT INSULATION IN WALLS 2ND/3RD FLOOR

BUILDING DETAILS

ORNAMENTAL IRON FENCE	6'-0" HIGH ORNAMENTAL IRON FENCE	
ON WILLIAM INOINT LINGE	FENCE TO MATCH AMERISTAR - MONTAGE PLUS COLOR: BLACK	
SLIDING GATE	GATE TO MATCH AMERISTAR - MONTAGE PLUS SUBMIT SHOP DRAWINGS 3-RAIL CLASSIC, 6'-0" TALL X 20' OPENING ROLL GATE COLOR: BLACK	
MAN GATE	GATE TO MATCH AMERISTAR - MONTAGE PLUS SUBMIT SHOP DRAWINGS 3-RAIL CLASSIC STEEL PANEL GATEREF. A5.1 DOOR SCHEDULE FOR HARDWARE COLOR: BLACK	
EXTERIOR BOLLARDS	3' HIGH A.F.F., 6" DIAMETER STEEL POLE WITH CONCRETE FILL & ROUND TOP COLOR: SAFETY YELLOW	
INTERIOR BOLLARDS	ULINE - OR APPROVED EQUAL 5.5" SURFACE MOUNTED STEEL BOLLARD COLOR: SAFETY YELLOW	
CMU - SMOOTH FACE	SMOOTH FACE CMU W/ DRYBLOCK ADMIXTURE SIZE: 8X8X16 INSULATION: FILL CELLS TO R-11 MORTAR: W/ DRYBLOCK ADMIXTURE	
HORIZONTAL METAL WALL PANEL (M1)	METL SPAN PROFILE: 7.2 SINGLE-SKIN WALL PANEL COLOR: SANDSTONE NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
VERTICAL METAL BAND (M2)	METL SPAN PROFILE: VERTICAL PBD SINGLE-SKIN WALL PANEL COLOR: POLAR WHITE NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
VERTICAL METAL WALL PANEL (M3)	METL SPAN PROFILE: CF ARCHITECTURAL VERTICAL COLOR: SLATE GRAY NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
ACM (ALUMINUM COMPOSITE PANEL)	ALPOLIC/PE 4MM COLOR: MST WHITE JOINT SYSTEM: RAINSCREEN NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
BRICK RAINSCREEN WALL PANEL	NICHIHA VINTAGE BRICK SERIES COLOR: ALEXANDRIA BUFF NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
STONE RAINSCREEN WALL PANEL	NICHIHA KURASTONE SERIES COLOR: STACKED STONE 'MOUNTAIN' NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
CONTINUOUS INSULATED WALL PANEL	METL SPAN PROFILE: CF ARCHITECTURAL VERTICAL COLOR: POLAR WHITE THICKNESS: 2 1/2" NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
BRAKE METAL	COLOR: PT-2	
EXTERIOR SHEATHING	GEORGIA PACIFIC OR APPROVED EQUAL DENSGLASS GOLD THICKNESS: 1/2"	
AIR & VAPOR MEMBRANE	GCP APPLIED TECHNOLOGIES PERM-A-BARRIER WALL MEMBRANE	
ALUMINUM WINDOW & STOREFRONT FRAME	COLOR: ANODIZED ALUMINUM GENERAL CONTRACTOR TO PURCHASE BOTH ALUMINUM WINDOW AND STOREFRONT FROM SAME MANUFACTURER TO MATCH COLOR	
GLAZING - CLEAR @ WINDOWS	SOLARBAN 90 COLOR: CLEAR + CLEAR VISIBILITY: 51%, U-VALUE: .29, SHGC: .23 1/4" GLAZING, 1/2" AIR SPACE, 1/4" GLAZING (1" TOTAL), TEMPERED	
GLAZING - SPANDREL	OPACI-COAT 300 COLOR: #3-967 'BLACK-GRAY' SOLARBAN 60 VISIBILITY: 51%, U-VALUE: .29, SHGC: .23 1/4" GLAZING, 1/2" AIR SPACE, 1/4" GLAZING (1" TOTAL), TEMPERED	
EXTERIOR DOOR & FRAME PAINT	SHERWIN WILLIAMS ALCOVE DOOR / DOOR FRAME COLOR: PT-2 SERVICE DOOR / DOOR FRAME COLOR: PT-1 NOTE: PAINT BOTH SIDES OF EXT. DOOR SAME COLOR	
EXPOSED CANOPY STRUCTURE	SHERWIN WILLIAMS COLOR: PT-1	
METAL TRIM, FLASHING, CANOPY TRIM, & COPING	MBCI 24 GA. COLOR: COLOR TO MATCH ADJACENT MATERIAL 'PAINT GRADE'	
METAL SOFFIT PANEL (AT ENTRY ALCOVES)	MBCI 24 GA. L-12 SOFFIT PANEL COLOR: SIG 200 'SOLAR WHITE'	
PREFINISHED SCUPPERS	MBCI 24 GA. COLOR: COLOR TO MATCH ADJACENT MATERIAL 'PAINT GRADE'	
GLASS SECTIONAL ROLL-UP DOOR	C.H.I. OVERHEAD DOOR MODEL: 3297 (INSULATED) SIZE: 11' WIDE X 14' HIGH COLOR: COLOR TO MATCH METL SPAN 'SLATE GRAY' INSTALL PER SPECIFICATIONS	
EXTERIOR SECTIONAL ROLL-UP COMMERCIAL DOOR	OLL-UP C.H.I. OVERHEAD DOOR MODEL: 3222 (INSULATED) COLOR: COLOR TO MATCH JANUS CEDAR RED INSTALL PER SPECIFICATIONS	
TPO ROOF	JOHNS MANVILLE - MECHANICALLY ATTACHED TPO ROOFING SYSTEM (UL CLASS A) -ROOF DECK (REF. STRUCT.) -COLOR: WHITE -JM ENRGY 3 POLYISOCYANURATE ROOF INSULATION, R-25 -JM SECUROCK GYPSUM-FIBER ROOF BOARD, MECHANICALLY ATTACHED,  1/2" THICK, R-0.5 -JM TPO .060 MIL (MINIMUM) THICK WHITE REINFORCED	

-JM TPO .060 MIL (MINIMUM) THICK WHITE REINFORCED

-INSTALL PER MANUFACTURER SPECIFICATIONS

-20 YEAR MANUFACTURER ROOF WARRANTY AND 2 YEAR INSTALLER

TPO MEMBRANE -REFLECTIVITY: 0.77 -EMISSIVITY: 0.87

WARRANTY

MBCI BATTENLOK 24 GA.

COLOR: GALVALUME

METAL ROOF PANEL @

CANOPY

ROOF HATCH	PRECISION ROOF HATCH MODEL: PH-A SIZED PER CONSTRUCTION DOCUMENTS INSTALL PER SPECIFICATIONS
ROOF CURB	LM CURBS
EXTEND-A-RAIL	PRECISION ALUMINUM LADDER
ROOF HATCH LADDER	PRECISION FIXED VERTICAL ALUMINUM LADDER MODEL: FL-133 SIZED PER CONSTRUCTION DOCUMENTS INSTALL PER SPECIFICATIONS
DUMPSTER METAL DOOR PANEL	METL SPAN MODEL: CS-260 SINGLE-SKIN COLOR: COLOR TO MATCH JANUS CEDAR RED PROFILE: VERTICAL
DUMPSTER CMU WALL	SPLIT FACE CMU SIZE: 8X8X16 COLOR: PT-1
WALL INSULATION (CMU) WALL INSULATION (6" STUD) WALL INSULATION (4" STUD)	FILL CELLS TO R-11 R-19 BATT INSULATION (ONLY BEHIND BRICK & STONE VENEER) R-13 BATT INSULATION (ONLY BEHIND BRICK & STONE VENEER)
ABOVE CEILING @ OFFICE	ACOUSTICAL BATT INSULATION
ROOF INSULATION	R-25.5 RIGID INSULATION ENTIRELY ABOVE ROOF DECK

EXTER	EXTERIOR PAINT				
SHERV	SHERWIN WILLIAMS				
PAINT	COLOR				
PT-1	SW 6062 'RUGGED BROWN' / 'VINTAGE LEATHER'				
PT-2	SW 7019 'GAUNTLET GRAY'				
INTER	INTERIOR FINISHES - STORAGE OFFICE / ACCESSORY SPACES				

POLISHED CONCRETE	CONSOLIDECK CONCRETE POLISHING SYSTEM W/ 1800 GRIT FINISH MINIMUM W/ BLENDED DENSIFYER, PROSOCO SEALER, AND SPRAY GUARD	
PORCELAIN WALL TILE - PWT (TOILET ROOMS)	DALTILE LINDEN POINT - LP19 BIANCO SIZE: 12 X 24 PATTERN: RUNNING BOARD	
WALL GROUT (TOILET ROOMS)	CUSTOM BUILDING PRODUCTS COLOR: #380 HAYSTACK SIZE: MFGR. RECOMMEND	
BRICK RAINSCREEN WALL PANEL (RECEPTION DESK)	NICHIHA VINTAGE BRICK SERIES COLOR: ALEXANDRIA BUFF NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
STONE RAINSCREEN WALL PANEL (SALES AREA WALL)	NICHIHA KURASTONE SERIES COLOR: STACKED STONE 'MOUNTAIN' NOTE: INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES	
SOLID SURFACE RECEPTION DESK COUNTERTOP	WILSON ART COLOR: 9100GS (3) 'COCONUT OIL' EDGE: PENCIL ROUND	
PLASTIC LAMINATE - (PLAM-1) CABINETS, SLAT WALL	WILSON ART COLOR: 7983-38 'BOARDWALK OAK'	
PLASTIC LAMINATE - (PLAM-2) SLAT WALL TRIM	WILSON ART COLOR: D96-60 'SHADOW'	
PLASTIC LAMINATE - (PLAM-3) BREAK ROOM COUNTERTOP	WILSON ART COLOR: D427-60 'LINEN' EDGE: PENCIL ROUND	
WOOD WALL BASE (OFFICE ONLY)	STYLE: 6" FLAT STRAIGHT EDGE COLOR: PT- 2	
RUBBER WALL BASE	4" ROPPE WALL BASE COLOR: 129 'DOLPHIN'	
SLAT WALL	WILSON ART COLOR: PLAM-1 W/ ALUMINUM INSERTS	
CEILING GRID SYSTEM	ARMSTRONG METALWORKS MESH - WOVEN WIRE MESH PANEL: NICKEL CHROME, PERFORATION: 1 CELL WOVEN EDGE TRIM: AXIOM KNIFE EDGE, PROFILE: 5/8", WHITE GRID: PRELUDE 15/16 EXPOSED TEE GRID, WHITE	
ACOUSTIC CEILING TILE	ARMSTRONG 2X2 FINE FISSURED ANGLED TEGULAR SQUARE LAY-IN COLOR: WHITE (WH), MEDIUM TEXTURE GRID: PRELUDE 15/16 EXPOSED TEE GRID, WHITE	
UNDERSIDE OF CEILING, STRUCTURE, AND DUCT @ OFFICE	ICTURE, AND DUCT	

ROLL-UP DOORS COMMERCIAL - INTERIOR	JANUS INTERNATIONAL MODEL: 650 COLOR: HIGH GLOSS WHITE INSTALL PER MFGR. INSTALLATION INSTRUCTIONS
POLISHED CONCRETE (IN CORRIDOR, NOT UNITS)	CONSOLIDECK CONCRETE POLISHING SYSTEM W/ 1800 GRIT FINISH MINIMUM W/ BLENDED DENSIFYER, PROSOCO SEALER, AND SPRAY GUARD
DUMMY DOORS & TRIM (BEHIND GLAZING IN OFFICE)	JANUS INTERNATIONAL - CONTINUOUS SHEET ROLLING DOOR MODEL 650 COLOR: LIGHT STONE SIZE: REF. DOOR SCHEDULE SHEET A5.1 INSTALL PER SPECIFICATIONS TRIM: LIGHT STONE
STAIR STRUCTURE	SHERWIN WILLIAMS COLOR: PT-4
INTERIOR CMU AT STORAGE (EXCLUDING STORAGE UNITS)	SHERWIN WILLIAMS COLOR: PT-3
HOLLOW METAL DOORS & FRAMES @ STAIR	SHERWIN WILLIAMS COLOR: PT-4

INTERI	INTERIOR PAINT				
SHERWIN WILLIAMS					
PAINT	COLOR	LOCATION			
PT-1	SW 7551 'GREEK VILLA'	WALL FIELD COLOR, TOILET ROOMS			
PT-2	SW 7025 'BACKDROP'	ACCENT WALL, OFFICE DOORS, DOOR TRIM, & WOOD BASE			
PT-3	SW 6170 'TECHNO GRAY'	UNDERSIDE OF DECK (CEILING)			
PT-4	SW 7019 'GAUNTLET GRAY'	STAIR STRUCTURE / UPPER STAIR DOORS			

TOILET ROOM ACCESSORIES					
TOILET TISSUE DISPENSER	BOBRICK - SURFACE-MOUNTED MULTI ROLL TOILET TISSUE DISPENSE MODEL: B-4288 CONTURA SERIES FINISH: SATIN-FINISH STAINLESS STEEL				
HAND DRYER	XLERATOR HAND DRYER MODEL: XL-BW FINISH: STAINLESS STEEL				
42" HORIZONTAL GRAB BARS 36" HORIZONTAL GRAB BARS	BOBRICK- 1/4" DIAMETER W/ SNAP FLANG COVER MODEL: B-5806 FINISH: STAINLESS STEEL				
MIRROR	BOBRICK - CHANNEL-FRAME MIRROR MODEL: B-165 2436 SIZE: 24X36 FIINISH: STAINLESS STEEL W/ BRIGHT-POLISH FINISH				
SOAP DISPENSER	GOJO MODEL: ADX-7				

	WATERPROOFING					
	WATERPROOFING SYSTEM (BASEMENT WALLS)	GCP APPLIED TECHNOLOGIES -HYDRODUCT 220 -BITUTHENE 3000 -PRIMER (B2 OR WP)				
	VAPOR BARRIER (UNDER SLAB)	GCP APPLIED TECHNOLOGIES -FLORPRUFE 120 -10 MIL REF. STRUCT.	COORDINATE WITH STRUCTURE			
	WATERSTOP (KEYWAY TRANSITIONS)	GCP APPLIED TECHNOLOGIES -ADCOR WATERSTOP				
	WATERPROOFING MEMBRANE (UNDER ELEVATOR PIT)	GCP APPLIED TECHNOLOGIES -BLINDSIDE -PREPRUFE 160R (VERTICAL) -PREPRUFE 300 (HORIZONTAL)				
	NOTE: GENERAL CONTRACTOR TO	O PROVIDE PRODUCT SPECIFIED OF	R APPROVED EQUAL			

IOTE: GENERAL CONTRACTOR TO PROVIDE PRODUCT SPECIFIED OR APPROVED EQUAL

### SPECIFICATION NOTES

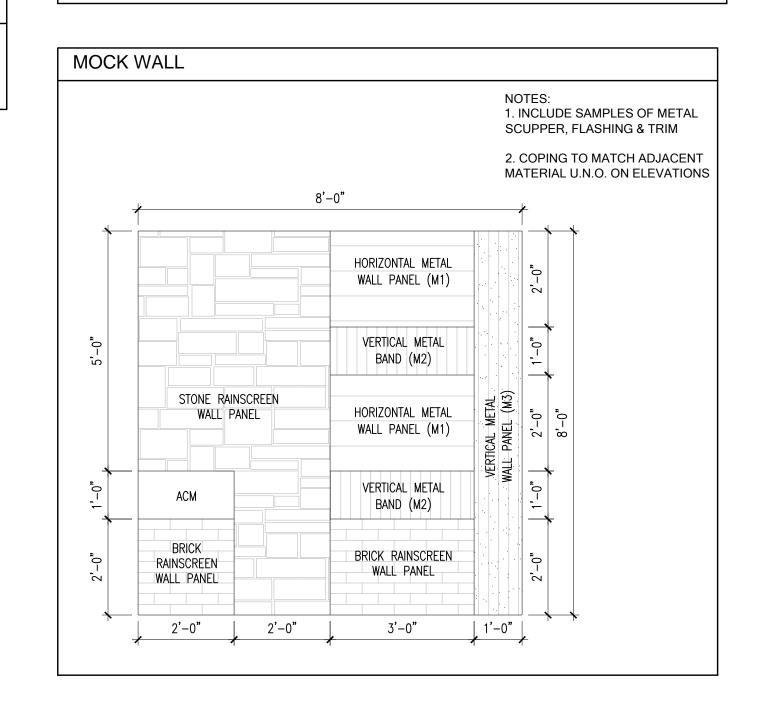
- GENERAL CONTRACTOR TO PROVIDE PRODUCT SPECIFIED OR SUBMIT EQUIVALENT PRODUCT TO ARCHITECT/ OWNER FOR APPROVAL.
- GENERAL CONTRACTOR TO PROVIDE 8'X8' MOCK-UP OF ALL EXTERIOR FINISHES FOR OWNER & ARCHITECT'S APPROVAL. GC TO COORDINATE WITH ARCHITECT FOR SPECIFIC SECTIONS. MOCK-UP TO BE COMPLETED PRIOR TO 30% OF PROJECT COMPLETION. NO EXTERIOR FINISHES TO BE ORDERED OR INSTALLED PRIOR TO MOCK-UP APPROVAL.
- GENERAL CONTRACTOR TO SUBMIT PAINT SAMPLE FOR OWNER APPROVAL PRIOR TO PAINTING INTERIOR WALLS.
- ENGINEERED DESIGN LOADS STAIRS/HANDRAILS/GUARDS: PER SECTIONS 1009/1012/1013 AND TABLE 1607.1/SECTION 1607 2012 IBC, ENGINEERED DESIGN LOADS FOR THE ABOVE MENTIONED ITEMS SHALL BE PROVIDED IN THE PLAN SET SUBMITTAL. FOR STAIRS THE UNIFORM LOAD REQUIRED IS 100 PSF AND THE CONCENTRATED LOAD REQUIRED FOR THE STAIRS TREADS IS 300LBS. FOR HANDRAIL ASSEMBLIES AND GUARDS THE APPLIED LOAD AND CONCENTRATED LOADS ARE 50 PLF (ANY DIRECTION AT THE TOP) AND 200 POUNDS (ANY DIRECTION AT THE TOP), RESPECTIVELY. FOR INTERMEDIATE RAILS THE HORIZONTALLY APPLIED NORMAL LOAD IS 50 POUNDS ON ANY AREA EQUAL TO ONE SQUARE FOOT, INCLUDING OPENINGS AND SPACE BETWEEN
- GRAB BARS DESIGN LOADS/ENGINEERED LAYOUT AND DETAILS: PER SECTION 1607.8.2 2012 IBC, GRAB BARS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250LBS. APPLIED IN ANY DIRECTION. PROVIDE DESIGN CRITERIA FOR GRAB BARS AND STRUCTURAL CONNECTIONS ON THE PLANS FOR THE NEW RESTROOMS. ENGINEERED DESIGN LOADS/LAYOUT AND DETAILS MUST BE SEALED/SIGNED/DATED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS.

### **ALTERNATES**

- GENERAL CONTRACTOR TO PROVIDE ALLOWANCE FOR CERAMIC TILE IN ROOMS 101-105 AS AN ALTERNATE.
- 2. UNIT LIGHTING ALLOWANCE.

E	LEVATOR SPECIFICATIONS
	ELEVATOR A (FUTURE B)
ELEVATOR MODEL	ENDURA 45A, QTY. 1
RATED CAPACITY	4,500 LBS.
RATED SPEED	130 FT./MIN. UP / 150 FT./MIN DOWN
OPERATION SYSTEM	TAC32
TRAVEL	21'- 10 1/2"
LANDINGS	3 TOTAL
OPENINGS	FRONT: 3
CLEAR CAR INSIDE	5' - 8" WIDE X 7' - 9 1/2" DEEP
CAB HEIGHT	8'-0" NOM., W/ CEILING HT. OF 7'-4"
HOISTWAY ENTRANCE SIZE	4'-0" WIDE X 7'-0" HIGH
DOOR TYPE	TWO SPEED FRONT OPENING
POWER CHARACTERISTICS	480 VOLTS, 3 PHASE, 60 HZ.
SEISMIC REQUIREMENTS	ZONE 2
FIXTURE & BUTTON STYLE	VANDAL RESISTANT SIGNAL FIXTURES
CAB WALL COLOR	GRAYSTONE 464
CAB CEILING FRAME COLOR	F-119 CHALKBOARD
CAB DOOR COLOR	#4 STAINLESS STEEL

- 1. GENERAL CONTRACTOR TO PROVIDE PRODUCT SPECIFIED OR APPROVED EQUAL.
- 2. MANUFACTURER: THYSSENKRUPP ELEVATOR, BASIS OF DESIGN IS THE ENDURA 45 A HOLELESS HYDRAULIC ELEVATOR PRODUCT.
- 3. WARRANTY/MAINTENANCE: 12 MONTH PERIOD
- 4. HOISTWAY ENTRANCES: DOORS AND FRAMES ON ALL LANDINGS SHALL BE APPLIED POWDER COAT PAINT. HOISTWAY SILL ASSEMBLIES SHALL BE SELF-SUPPORTING EXTRUDED ALUMINUM.
- 5. CAR ENCLOSURE: CAB TYPE TKS, REINFORCED COLD-ROLLED STEEL WITH A POWDER COATED FINISH. CEILING SHALL BE SUSPENDED TYPE, FLUORESCENT LIGHTING WITH TRANSLUCENT DIFFUSER MOUNTED IN A POWDER COAT PAINTED METAL FRAME. CAB FRONTS AND RETURN SHALL BE PROVIDED IN A #4 BRUSHED STAINLESS STEEL. CAR DOOR FINISH SHALL BE A #4 BRUSHED STAINLESS STEEL FINISH WITH STAINLESS STEEL KICK PLATES. CAB SILLS SHALL BE EXTRUDED ALUMINUM. HANDRAIL SHALL BE 2" FLAT METAL BAR ON SIDE AND REAR WALLS AND HAVE A #4 STAINLESS STEEL FINISH. BUMPER RAILS SHALL BE 4" FLAT METAL BAR ON SIDE AND REAR WALLS AND HAVE A #4 STAINLESS STEEL FINISH.
- 6. CAR OPERATING STATION: THE MAIN CAR CONTROL IN EACH CAR SHALL CONTAIN THE DEVICES REQUIRED FOR SPECIFIC OPERATION MOUNTED IN AN INTEGRAL SWING RETURN PANEL REQUIRING NO APPLIED FACEPLATE. SWING RETURN SHALL HAVE A BRUSHED STAINLESS STEEL FINISH. PUSHBUTTONS THAT ILLUMINATE USING LONG LASTING LED'S SHALL BE INCLUDED FOR EACH FLOOR SERVED. AN EMERGENCY COMMUNICATIONS SYSTEM, INTEGRAL PHONE SYSTEM SHALL BE PROVIDED. A COLUMN MOUNTED CAR RIDING LANTERN SHALL BE INSTALLED.
- 7. CONTROL SYSTEM: AUTOMATIC LIGHT AND FAN SHUT DOWN CONTROL SYSTEM SHALL BE INCLUDED. AN "EMERGENCY BATTERY LOWERING OPERATION" (10DOC) SHALL BE INCLUDED IN THE ELEVATOR OPERATION. THE EMERGENCY BATTERY LOWERING OPERATION SHALL LOWER THE ELEVATOR IN TIME OF POWER LOSS AND OPEN THE CAB DOOR ALLOWING FOR PASSENGERS TO EXIT.
- 8. HALL STATIONS: PROVIDE BUTTONS WITH BLUE-ILLUMINATING LED HALOS TO INDICATE THAT A CALL HAS BEEN REGISTERED AT THAT FLOOR FOR THE INDICATED DIRECTION. PROVIDE 1 SET OF PUSHBUTTON RISERS WITH FACEPLATES HAVING A #4 BRUSHED STAINLESS STEEL FINISH. PHASE 1 FIREFIGHTER'S SERVICE KEY SWITCH, WITH INSTRUCTIONS, SHALL BE INCORPORATED INTO THE HALL STATION AT THE DESIGNATED LEVEL. SPECIAL EQUIPMENT; CARD READER PROVISIONS SHALL BE INCLUDED IN ALL CONTROLLERS AND SPACE MADE AVAILABLE IN THE ELEVATOR CAB FOR A SURFACE MOUNTED DEVICE.
- 9. ELEVATOR FLOOR: RAISED RUBBER TILE.
- 10. GUARDRAILS REQUIRED ON TOP OF ELEVATOR CAB.



CONSTRUCTION As Noted on Plans Review

PROJECT NO. 2035

DATE: 12.16.2021

DRAWN:

REVISIONS:

BLDG.

# LAKEWOOD STORAGE

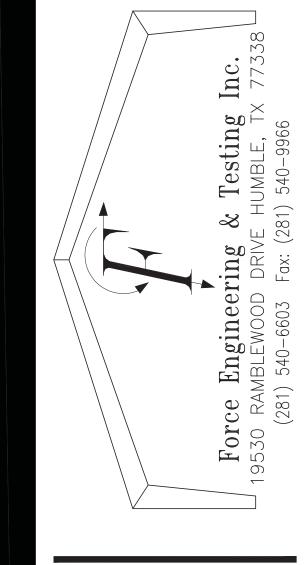
### LEE'S SUMMIT, MISSOURI 64064

### DRAWING INDEX:

SHEET NUMBER:	DESCRIPTION:
COVER	DRAWINGS INDEX
S0.1	GENERAL NOTES
S0.2	LIGHT GAGE FRAMING NOTES
S0.3	MASONRY NOTES
SO.4	TESTING & INSPECTION REQUIREMENTS
S0.5	ROLL-UP DOOR INSTALLATION
F1.1	CONCRETE NOTES
F2.1 - F2.2	FOUNDATION PLANS
F2.3 - F2.4 I	LUG AND ANCHOR BOLT PLAN
F2.5 L	UG AND ANCHOR BOLT DETAILS
FD1.1 - FD1.4	FOUNDATION DETAILS
S1.1 - S1.2	1ST FLOOR FRAMING PLAN
S2.1 - S2.2	2ND FLOOR FRAMING PLANS
S3.1 - S3.2	3RD FLOOR FRAMING PLANS
S4.1 - 4.2	ROOF FRAMING PLANS
S5.1 - S5.2	ROOF DECK PLANS
S6.1-S6.8	EXTERIOR FRAMING ELEVATIONS
S7.1-S7.12	COLUMN LINE FRAMING ELEVATIONS
S8.1	ENLARGED FRAMING PLANS
D1.1-D1.10	DETAILS



							Ultimate	Wind Pr
oads - Compo	onents	& Clade	ding : h	≤ 60'				
Kh (case 1) =	1.01		h =	33.5 ft	0.2h =	6.7 ft		
Base pressure (qh) =	26.0 psf		0.6h =	20.1 ft				
Minimum parapet ht =	1.5 ft		GCpi =	+/-0.18				
Roof Angle (θ) =	1.2 deg		qi = qh =	26.0 psf				
Type of roof =	Monoslope							
Roof					Surface P	ressure (p	sf)	
Area	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
Negative Zone 1	-48.9	-45.6	-41.4	-38.2	-34.9	-32.3	-30.7	-30.7
Negative Zone 1'	-28.1	-28.1	-28.1	-28.1	-24.2	-21.0	-19.0	-16.0
Negative Zone 2	-64.5	-60.3	-54.8	-50.7	-46.5	-43.2	-41.1	-41.1
Negative Zone 3	-87.8	-79.6	-68.6	-60.3	-52.0	-45.3	-41.1	-41.1
Positive All Zones	16	16	16	16	16.0	16.0	16.0	16.0
O 7 4941	-44.2	-43.4	-42.4	-41.6	-34.9	-29.4	-26.0	-26.0
Overnang Zone 1&1	-44.2	T - 1		The second second				
Overhang Zone 1&1	-59.8	-54.3	-46.9	-41.4	-35.9	-31.4	-28.6	-28.6
Overhang Zone 2 Overhang Zone 3	-59.8 -83.2 Overhang	-54.3 -73.5 pressures	100000000000000000000000000000000000000	-41.4 -51 above assu	-41.4 ime an inte	-31.4 -33.6 rnal pressu	-28.6 ure coeffici	-28.6 ent (Gcpi)
Overhang Zone 2 Overhang Zone 3  Parapet	-59.8 -83.2 Overhang	-54.3 -73.5 pressures	-46.9 -60.7 in the table	-41.4 -51 above assu adj wall pre	-41.4 ime an inte essure (wh	-31.4 -33.6 rnal pressu ich include	-28.6 ure coeffici	-28.6 ent (Gcpi)
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Overhang Zone 2 Overhang Zone 3  Parapet  qp = 26.7 psf	-59.8 -83.2 Overhang Overhang	-54.3 -73.5 pressures soffit press	-46.9 -60.7 in the table sure equals	-41.4 -51 above assu adj wall pre Surfac 20 sf	-41.4 ime an inte essure (wh ee Pressure 50 sf	-31.4 -33.6 rnal pressuich include (psf) 100 sf	-28.6 ure coeffici es internal p	-28.6 ent (Gcpi) pressure o
Overhang Zone 2 Overhang Zone 3  Parapet  qp = 26.7 psf	-59.8 -83.2 Overhang Overhang	-54.3 -73.5 pressures soffit press t Pressure Zone 2 :	-46.9 -60.7 in the table sure equals 10 sf 85.6	-41.4 -51 above assu adj wall pre Surfac 20 sf 80.0	-41.4 Ime an interessure (where the series of the series o	-31.4 -33.6 rnal pressu ich include (psf) 100 sf 67.2	-28.6 ure coeffici es internal p 200 sf 61.6	-28.6 ent (Gcpi) pressure o 500 st 54.3
Overhang Zone 2 Overhang Zone 3  Parapet  qp = 26.7 psf	-59.8 -83.2 Overhang Overhang	-54.3 -73.5 pressures soffit press	-46.9 -60.7 in the table sure equals	-41.4 -51 above assu adj wall pre Surfac 20 sf	-41.4 ime an inte essure (wh ee Pressure 50 sf	-31.4 -33.6 rnal pressuich include (psf) 100 sf	-28.6 ure coeffici es internal p 200 sf 61.6	-28.6 ent (Gcpi) pressure o 500 st 54.3
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Overhang Zone 2 Overhang Zone 3  Parapet  qp = 26.7 psf  CA  CA	-59.8 -83.2 Overhang Overhang olid Parape ASE A:  SE B : Inte	-54.3 -73.5 pressures soffit press  Pressure Zone 2: Zone 3: rior zone : ner zone :	-46.9 -60.7 in the table sure equals 10 sf 85.6 109.6	-41.4 -51 above assuadj wall pre Surface 20 sf 80.0 99.8 -48.0 -53.9	-41.4 Ime an interessure (wheessure (wheessure 50 sf 72.7 86.9) -44.6 -48.8	-31.4 -33.6 rnal pressurich include (psf) 100 sf 67.2 77.0 -42.0 -45.0	-28.6 ure coefficies internal p  200 sf 61.6 67.2  -39.5 -41.2	-28.6 ent (Gcpi) pressure o 500 st 54.3 54.3 -36.1
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Overhang Zone 2 Overhang Zone 3  Parapet  qp = 26.7 psf  CA  CA	-59.8 -83.2 Overhang Overhang olid Parape ASE A:  SE B : Inte	-54.3 -73.5 pressures soffit press  Pressure Zone 2: Zone 3: rior zone : ner zone :	-46.9 -60.7 in the table sure equals 10 sf 85.6 109.6	-41.4 -51 above assuadj wall pre Surface 20 sf 80.0 99.8 -48.0 -53.9	-41.4 Ime an interessure (wheessure (wheessure 50 sf 72.7 86.9) -44.6 -48.8	-31.4 -33.6 rnal pressurich include (psf) 100 sf 67.2 77.0 -42.0 -45.0	-28.6 ure coefficies internal p  200 sf 61.6 67.2  -39.5 -41.2	-28.6 ent (Gcpi) pressure o 500 st 54.3 54.3 -36.1





PROJECT NO. 2035

DATE: 12.15.2021

DRAWN:

REVISIONS:

COVER SHEET

SHEET NO



RELEASED FOR

PROJECT NO. 2035

12.15.2021 DATE: DRAWN:

**REVISIONS:** 

GENERAL NOTES

SHEET NO.

SO.1

GENERAL NOTES: 1. APPLICABLE STRUCTURAL CODE: INTERNATIONAL BUILDING CODE 2018

2. DESIGN LOADS:	
ROOF DEAD LOAD:	— 10 PSF
ROOF COLLATERAL LOAD:	— O PSF
ROOF LIVE LOAD:	— 20 PSF
FLOOR DEAD LOAD: ——————	— 45 PSF

FLOOR LIVE LOAD: LIGHT STORAGE: — 125 PSF CORRIDORS: — 100 PSF/200# CONCENTRATED RAIN LOADS:

R= _______ 5 PSF

SNOW LOADS: GROUND SNOW LOAD: — 20.0 PSF SNOW. EXP. FACTOR, Ce= —— 1.0 ISNOW IMP. FACTOR, Is= ----- 1.0 THERMAL FACTOR, Ct= ----- 1.0

ROOF SNOW LOAD: — 20.0 PSF

WIND LOADS: ULTIMATE WIND SPEED: — 109 MPH NOMINAL WIND SPEED: ———— 84.4 MPH WIND IMP. FACTOR, Iw= ----- 1.0 WIND CONDITION: — ENCLOSED INT. PRESSURE COEFFICIENT: —— +/- 0.18

SEISMIC DESIGN: SEISMIC DESIGN CATEGORY: — A SEISMIC IMP. FACTOR, le= ---- 1.0 Ss: 10.0%g S1: 6.8%g

EQUIVALENT LATERAL FORCE ANALYSIS

WIND EXPOSURE: ——— "C"

BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAME WALLS W/SHEAR PANELS TOTAL BASE SHEAR — 64 KIPS

A. ALL ROOF COMPONENTS SHALL BE DESIGNED FOR THE APPROPRIATE DESIGN PRESSURE FOR THE TRIBUTARY AREA AS INDICATED ON THE DESIGN CHART B. ALL DOORS SHALL MEET THE WIND LOAD RESISTANCE FROM IBC 2009. REFER TO THE LOAD CHARTS FRO COMPONENT AND CLADDING FOR DESIGN PRESSURES

C. HANDRAILS AND GUARDS SHALL BE DESIGNED IN ACCORDANCE WITH TABLE 1607.1 ON THE INTERNATIONAL CODE AS FOLLOWS:

1. HANDRAILS ASSEMBLIES AND GUARDS SHALL BE DESIGNED TO SUPPORT A LATERAL LOAD OF 50 POUNDS PER LINEAR FOOT APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE

7. SPECIAL NOTES:

PIPE LOAD WITH WATER

ARCHITECTURAL BARRIER ACT LOADS:

GRAB BAR —

TUB OR SHOWER SEAT ----

HAND RAILS -

STAIR TREADS, RAILING AND GUARD RAILS:

SIZE WEIGHT MAX. SPACING OF HANGERS

REQUIRED CAPACITY

REQUIRED CAPACITY

TOP RAILS — 50 PLF HORIZONTALLY

OTHERS RAILS, FILLERS & CONNECTIONS — 25 PSF HORIZONTALLY

— 250 POUNDS ANY DIRECTION

———— 250 POUNDS ANY DIRECTION

---- 300 POUNDS AT CENTER

———— 200 POUNDS ANY DIRECTION

4" DIA. — 17 PLF — 10'-0"

6" DIA. — 32 PLF — 10'-0"

8" DIA. — 50 PLF — 10'-0"

10" DIA. — 75 PLF — 10'-0"

12" DIA. — 100 PLF — 5'-0"

2. HANDRAILS ASSEMBLIES AND GUARDS SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD OF 200 POUNDS PER LINEAR FOOT APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE

D. STAIR THREADS SHALL BE DESIGNED TO SUPPORT A MINIMUM OF A 300 POUND CONCENTRATED LOAD

DEFLECTION CRITERIA: STRUCTURAL STANDING SEAM ROOF SYSTEM: ———— L/240 PURLIN FRAMING SYSTEM: L/240 TOTAL LOAD COMPOSITE DECK SYSTEM: L/360 TOTAL LOAD STUD WALL SYSTEM: H/240 (EIFS) STUD WALL SYSTEM: H/120 (METAL FINISHES)

3. USE OF DRAWINGS:

A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE BEFORE COMMENCING WITH WORK, AND SHALL REPORT

ANY DISCREPANCIES TO FORCE ENGINEERING & TESTING.

WITHOUT THE SPECIFIC WRITTEN PERMISSION OF FORCE ENGINEERING & TESTING, INC.

B. OMISSIONS AND CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF FORCE ENGINEERING & TESTING AND RESOLVED PRIOR TO STARTING WORK.

C. DO NOT USE SCALED DIMENSIONS FROM THE DRAWINGS. WHERE NO DIMENSIONS ARE PROVIDED, CONSULT WITH FORCE ENGINEERING & TESTING FOR CLARIFICATION PRIOR TO PRECEDING WITH THE WORK.

D. DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER CALLED OUT OR NOT. E. NO ADDITIONS OR ALTERATIONS SHALL BE MADE TO DRAWINGS BEARING THE ENGINEERS SEAL WITHOUT THE PERMISSION OF THE ENGINEER.

4. ALTERATION OF STRUCTURAL MEMBERS NO STRUCTURAL MEMBER, EITHER HOT ROLLED STEEL OR COLD FORMED STEEL, SHALL BE ALTERED IN ANY WAY BY ANY TRADE

5. DESIGN AND/OR FABRICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICES AND INTERPRETATIONS OF THE

FOLLOWING CODES: 14TH. EDITION AISC STEEL CONSTRUCTION MANUAL ASD, 2007 AISI COLD-FORMED STEEL DESIGN MANUAL, 2000 AWS 1.1 STRUCTURAL WELDING CODE-STEEL AND ANY OTHER CODE LISTED WITHIN THE DESIGN INFORMATION.

6. <u>MATERIALS</u>	ASTM DESIGNATION	MINIMUM YIELD
HOT ROLLED MILL SHAPES	—— A992 ————————————————————————————————	Fy= 50 ksi
HOLLOW PLATE/FLAT BAR	—— A572 OR A529 ——————	Fy= 50 ksi
	—— A500 OR B500 —————	
COLD-FORMED LIGHT GAUGE SHAPES	—— A653 GR 55 ————	
CABLE BRACING	—— A475 ——————	EXTRA HIGH STRENGTH
	—— A36 ——————	
ROOF AND WALL SHEETING	—— A792 —————	Fy= 50, 80 ksi
MACHINE BOLTS -	—— A307	
HIGH STRENGTH BOLTS	—— A325	
ANCHOR BOLTS (BY OTHERS) ———	—— A36 ——————	Fy= 36 ksi
CSI CFD2 FLOOR DECK —————	—— A653 (G90) ——————	Fy= 50 ksi
EXTERIOR STRUCTURAL STUDS ———	—— A653 SQ (G90) —————	Fy= 33 ksi
CSI TYPE B DECK	—— A653 (G90)	Fy= 40 ksi

8. <u>FINISH:</u>

A. ALL COLD-FORMED STRUCTURAL FRAMING MEMBERS SHALL BE SHOT BLASTED, GIVEN ONE COAT (0.5 MILS) OF PREMIUM POLYESTER-BASED RED PRIMER, THEN OVEN BAKED PRIOR TO ANY FABRICATION. THE PRIMER CONTAINS A "WAX" TYPE LUBRICANT TO FACILITATE ROLL FORMING AND DETER MARRING DURING THESE OPERATIONS.

HAIR LINE CRAZING WHICH MAY OCCUR DURING FORMING OPERATIONS IS CONSIDERED NORMAL.

B. ALL OTHER STRUCTURAL FRAMING MEMBERS SHALL BE CLEANED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE AND GIVEN ONE SHOP COAT (1.0 MILS) OF STANDARD RED-OXIDE PRIMER DESIGNED FOR SHORT TERM FIELD PROTECTION DURING THE ERECTION PROCESS. ALL STANDARD RED-OXIDE PRIMER SHALL MEET THE PERFORMANCE SPECIFICATIONS OF FEDERAL SPECIFICATION TT-P-636D AND TT-P-664.

C. ALL STRUCTURAL STUDS SHALL HAVE A MIN G60 ZINC COATING (.60oz/ft²) TOTAL ON BOTH SIDES.

D. ALL NON-STRUCTURAL STUDS SHALL HAVE A MIN G40 ZINC COATING (.40oz/Ft²) TOTAL ON BOTH SIDES.

E. WHEN EXPOSED, ALL COLD-FORMED STRUCTURAL ZEES, CEES, AND STUDS SHALL HAVE A MINIMUM OF G90 ZINC COATING (.90oz/ft²) TOTAL ON BOTH SIDES.

9. ALL ANCHOR BOLT CONNECTIONS ARE A MINIMUM OF F1554-36 UNLESS NOTED. ALL STRUCTURAL FASTENERS ARE A MINIMUM OF #12 DIAMETER SCREWS UNLESS NOTED.

10. COMPOSITE DECK SLABS

A. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NATURAL SAND FINE AGGREGATES, NORMAL WEIGHT COARSE AGGREGATES CONFORMING TO ASTM C33, TYPE 1 PORTLAND CEMENT

AND SHALL HAVE THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (FC) AFTER 28 DAYS COMPOSITE DECK SLABS: 4000psi B. CHORLIDE ADMIXTURES OR ADMIXTURES CONTAINING CHORLIDE SALTS SHALL NOT BE ADDED UNDER ANY CIRCUMSTANCES TO

THE CONCRETE. SUCH ADDITIVES HAVE PROVEN DELETERIOUS TO STEEL AND STEEL FINISHES.

C. REINFORCEMENT: 6X6-W1.4 x W1.4 WWR OR EQUIVALENT STEEL FIBER REINFORCING.

11. A325 BOLT TIGHTENING REQUIREMENTS

ALL HIGH STRENGTH BOLTS ARE A325 UNLESS SPECIFICALLY NOTED OTHERWISE. ALL STRUCTURAL A325 BOLTS WITH HEAVY HEX NUTS FOR THE RIGID FRAME ARE TO BE INSTALLED USING THE TURN-OF-THE-NUT METHOD SPECIFIED IN THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" IN THE AISC MANUAL. UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH BOLT THREADS NOT EXCLUDED FROM THE SHEAR PLANE.

12 <u>ERECTION NOTES</u>

A. ALL BRACING SHOWN ON THE DRAWINGS FOR THIS STEEL FRAMING SYSTEM IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE

("CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IN THE AISC MANUAL; SECTION 7.9)

B. TEMPORARY SUPPORTS, SUCH AS GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION SHALL BE DETERMINED AND FURNISHED BY THE ERECTOR ("CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IN THE AISC MANUAL; SECTION 7.9). ERRORS WHICH REQUIRE MAJOR CHANGES IN THE MEMBER CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO C. ENGINEER OF RECORD BY THE CONTRACTOR TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE USED BY OTHERS

("CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IN THE AISC MANUAL; SECTION 7.12).

D. ERECTION TOLERANCES ARE SET FORTH IN AISC CODE OF STANDARD PRACTICE 7.11 EXCEPT THAT INDIVIDUAL MEMBERS ARE CONSIDERED PLUMB, LEVEL AND ALIGNED IF THE DEVIATION DOES NOT EXCEED 1:300. VARIATIONS IN FINISHED OVERALL DIMENSIONS OF STRUCTURAL STEEL FRAMING ARE DEEMED WITHIN THE LIMITS OF GOOD PRACTICE WHEN THEY DO NOT EXCEED THE CUMULATIVE EFFECT OF ROLLING, FABRICATING, AND ERECTION TOLERANCES.

E. AS A GENERAL RULE FIELD WELDING IS NOT USED TO ASSEMBLE THE STEEL FRAMING SYSTEM. IN CASES WHERE THE DRAWINGS INDICATE FIELD WELDING AND IN CASES WHERE APPROVED CORRECTIONS ARE TO BE MADE BY FIELD WELDING THE FOLLOWING

REQUIREMENTS SHALL BE MET:

1. WELDERS MUST BE QUALIFIED BY AN INDEPENDENT TESTING AGENCY, WITH SUITABLE DOCUMENTATION TO AWS D1.1 STRUCTURAL WELDING CODE - STEEL OR AWS D1.3 STRUCTURAL WELDING CODE SHEET STEEL AS APPLICABLE, FOR THE PROCESSES, POSITIONS, AND MATERIAL INVOLVED.

2. ALL WELDS MUST BE MADE IN CONFORMANCE TO A DOCUMENTED AND APPROVED WELDING PROCEDURE SPECIFICATION (WPS). ALL JOINTS WHICH ARE NOT PREQUALIFIED MUST BE SUPPORTED BY A CERTIFIED PROCEDURE QUALIFICATION RECORD (PQR) BY AN INDEPENDENT TESTING AGENCY.

F. STEEL DECK INSTALLATION SHALL BE IAW APPROVED ERECTION DRAWINGS.

1. ENDS OF DECK UNITS SHALL BE LAPPED NO LESS THAN 2 INCHES OVER SUPPORTS.

2. ATTACHMENT OF DECK TO SUPPORTS SHALL BE A MIN. (2)  $\#12-14 \times 3/4$ " HWH INTO THE BEARING

WALL TOP TRACK PER LOW FLUTE. OVER FULL BEARING HEADERS, USE A MIN. OF (1) #12-14 x 3/4" HWH PER LOW FLUTE. (36/7 PATTERNS) OVER STEEL BEAMS USE A MIN. (1) 1/4-20x1-1/2" DP5 PER FLUTE OR HILTI X-HSN 24 (37/7 PATTERN)

3. SIDELAP FASTENERS SHALL BE AT MAXIMUM OF 12" O.C. BETWEEN BEARING WALL FRAMES. USE #12-14 x 3/4" HWH FOR SIDELAP FASTENERS.

G. CONCRETE PLACEMENT

1. DECK SHALL BE FREE OF SOIL, DEBRIS, STANDING WATER, LOOSE MILL SCALE AND ALL OTHER FOREIGN MATTER

2. CONCRETE SHALL BE PLACED FROM A LOW LEVEL IN A UNIFORM MANNER OVER THE SUPPORTING STRUCTURE AND SPREAD TOWARDS THE CENTER OF THE DECK SPAN.

3. CONCRETE SHALL BE PLACED IN THE OPPOSITE DIRECTION TO WHICH THE SHEETS WERE LAID TO AVOID CONCRETE LEAKAGE.

4. CONCRETE FINISHING SHALL BE DONE WITH "WALK-BEHIND" POWER TROWELS: 1200 LB FINISH RIDER

OR BUGGIES ARE NOT ALLOWED.

5. SLUMP SHALL BE 3 TO 5 INCHES

6. BATCH TO PLACEMENT TIME SHALL BE LESS THAN 90 MINUTES.

7. CONCRETE PUMP TEMPERATURE CHANGE OF 50 TO 90 DEGREES FAHRENHEIT.

8. AIR CONTENT OF 0 TO 3%

13. MECHANICALLY ATTACHED ULTRA PLY TPO MEMBRANE ROOF SYSTEM

A MAIN FIELD OF ROOF FM I-90 RATED ASSEMBLY SEE ROOFNAV 260654-0-0.

B. PERIMETER AND CORNER OF ROOF USE FM I-120 RATED ASSEMBLY SEE ROOFNAV 254071-0-0

14. COMPONENT BRACING PLANS ARE NOT INCLUDED WITH THESE PERMIT DOCUMENTS. ANY ARCHITECTURAL COMPONENTS OR ANY PLUMBING, MECHANICAL OR ELECTRICAL FIXTURE MUST BE DESIGN FOR SEISMIC LOADING PER THE STRUCTURAL DESIGN CRITERIA LISTED IN THESE PLANS BY THE SPECIALTY SYSTEMS DESIGN ENGINEER OR ARCHITECT.

15 ** SHOP DRAWINGS **

1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INLCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION

2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATE ITEMS INCLUDED IIN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.

3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.

4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.

## GENERAL NOTES: LIGHT-GAUGE STEEL FRAMING

#### MATERIALS & STANDARDS:

- 1. STEEL FRAMING MEMBERS MUST CONFORM TO THE REQUIREMENTS OF AISI SPECIFICATIONS. FOR THE DESIGN OF COLD-FORMED
- STRUCTURAL MEMBERS (AISI-86). 2. MATERIAL MUST CONFORM TO ONE OF THE FOLLOWING: ASTM A653, A792, OR A 875.
- 3. MINIMUM YIELD STRENGTH (FY) = 55,000 PSI
- 4. ALL STRUCTURAL MEMBERS SHALL BEAR IDENTIFICATION WITH THE FOLLOWING INFORMATION: MANUFACTURER'S NAME, MINIMUM THICKNESS IN MILS OF UNCOATED STEEL, COATING WEIGHT, MINIMUM YIELD STRENGTH (KIPS PER SQUARE INCH).
- 5. STRUCTURAL FRAMING MEMBERS SHALL BE HOT-DIP GALVANIZED (G60) OR HAVE EQUIVALENT CORROSION-RESISTANT COATING.
- NON-STRUCTURAL MEMBERS SHALL BE HOT-DIP GALVANIZED (G40) OR HAVE EQUIVALENT CORROSION-RESISTANT COATING.
- 6. MATERIAL THICKNESS SHALL CONFORM TO THE FOLLOWING SCHEDULE:

GAUGE	MILS	MIN. THICKNESS (INCHES)
25	18	0.018
22	27	0.027
20	33	0.033
18	43	0.043
16	54	0.054
14	68	0.068
12	97	0.097

#### FABRICATION:

1. C-SECTION STRUCTURAL MEMBERS SHALL COMPLY WITH THE FOLLOWING DIMENSIONAL REQUIREMENTS:

NOMINAL	MEMBER	NDUSTRY	WEB DEPTH	MIN. FLANGE	MIN. LIP SIZE
		TCICNIA TOD		WIDTH (INCHES)	WIII/INCLIEC)
217	L D	ESIGNATOR	(IIVUTES)	WID IN (INCHES)	(IINCHES)
2 X	4	50S162-T	3.5	1.625	0.5
2 \			C	1 COE	0 E
	0   0	50S162-T	0	1.020	0.3
2 X	8 8	00S162-T	8	1 625	0.5
2 //			0	1,020	0.0
2 X	10   10	)00S162-T	10	1.625	0.5
2 X	19 1	200S162-T	12	1 625	Λ5
	12	_000102 1	1 ∠	1,020	0.0

- 2. "T" IS THE UNCOATED MATERIAL THICKNESS IN MILS. "S" INDICATES STUDS AND JOIST SECTIONS WITH LIPS. MAXIMUM FLANGE SIZE PERMITTED IS 2 1/2"
- $\frac{3}{2}$  tracks: comply with the above dimensional requirements except with a minimum flange of 1 1/4", and no lip.
- 4. WEB PUNCHOUTS: PUNCHOUTS SHALL NOT EXCEED 1 1/2" WIDTH X 4" LENGTH, LOCATED AT WEB CENTERLINE.

#### CUTTING, NOTCHING & HOLE STIFFENING:

- 1. FLANGES SHALL NOT BE CUT OR NOTCHED WITHOUT ENGINEER'S APPROVAL.
- 2. WEB HOLES SHALL BE NO CLOSER THAN 12" TO BEAM OR JOIST BEARING AND SHALL BE LIMITED TO THE FOLLOWING:
- A. DEPTH: ONE-HALF  $(\frac{1}{2})$  THE WEB DEPTH
- B. LENGTH: 4" OR WEB DEPTH, WHICHEVER IS GREATER
- 3. WEB HOLES CLOSER THAN 12" TO THE JOISTS BEARING OR 18" TO BEAM/HEADER BEARING SHALL BE REINFORCED WITH #8 SCREWS AT 1" SPACING ALONG EDGES.

#### FASTENERS:

#### 1. SCREWS:

- A. ALL SCREWS SHALL BE SELF-DRILLING / TAPPING SCREWS, WITH HEAD STYLES, THREADS AND POINT TYPES ACCORDING TO MANUFACTURER.
- B. USE #8 MINIMUM UNLESS OTHERWISE SPECIFIED
- C. MAINTAIN A MINIMUM CENTER-TO-CENTER OR EDGE DISTANCE OF THREE (3) DIAMETERS.
- D. INSTALL SO THAT:
  - (I) A MINIMUM OF THREE (3) THREADS PENETRATE THROUGH THE STEEL.
- (II) SCREWS PENETRATE COMPONENTS WITHOUT CAUSING PERMANENT SEPARATION.
- (III) HOLES OR THREADS ARE NOT STRIPPED.

#### 2. BOLTS:

- A. ALL BOLTS SHALL MEET OR EXCEED ASTM-A307, INSTALLED WITH STANDARD NUTS AND WASHERS.
- B. MAINTAIN A MINIMUM DISTANCE OF 1 1/2 TIMES BOLT DIAMETER TO EDGE OF CONNECTED STEEL MEMBER.
- C. BOLT HOLE DIAMETER SHALL NOT EXCEED BOLT DIAMETER BY MORE THAN 1/16".

#### STUD WALLS:

- 1. ALL BE SHALL BE SPACED AT 24" O.C. IF INLINE WITH STRUCTURAL MEMBERS ABOVE.
- 2. STUDS SHALL NOT BE SPLICED WITHOUT ENGINEER'S APPROVAL.

#### CONSTRUCTION GUIDELINES:

- 1. WHERE POSSIBLE, ALL STRUCTURAL MEMBERS SHALL BE ALIGNED VERTICALLY (IN-LINE FRAMING) TO TRANSFER LOADS IN A DIRECT PATH TO THE FOUNDATION SYSTEM.
- 2. BEARING SURFACES FOR JOISTS, RAFTERS AND TRUSSES SHALL BE UNIFORM AND LEVEL.
- 3. ALL LOAD BEARING STUDS, INCLUDING KING AND JACK STUDS, SHALL BE SEATED IN THE TRACKS WITH A MAXIMUM GAP OF 1/8" BETWEEN THE END OF THE STUD & THE WEB OF THE TRACK.
- 4. TRACK MEMBERS SHALL NOT BE USED FOR ANY LOAD CARRYING APPLICATIONS WITHOUT ENGINEER'S APPROVAL.
- 5. CUTTING METHODS WHICH CAUSE SIGNIFICANT HEATING OF THE STEEL OR DAMAGE TO THE COATINGS SHALL ONLY BE USED WHEN THE GALVANIZED COATING IS REPAIRED.
- 6. A SILL SEALER, OR EQUIVALENT, SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF THE WALL WHEN FASTENED DIRECTLY TO CONCRETE.
- 7. PLUMBING LINES: COPPER AND PLASTIC PIPES SHALL BE SEPARATED FROM STEEL FRAMING BY NON-CONDUCTIVE GROMMETS OR OTHER EQUIVALENT MEANS.
- 8. ELECTRICAL WIRING: A GROMMET BUSHING, CONDUIT OR EQUIVALENT WIRE PROTECTION SHALL BE INSTALLED IN THE SERVICE HOLE OR PUNCH-OUT BEFORE ELECTRICAL WIRING IS PULLED THROUGH.
- 9. BRACING:
- A. TEMPORARY BRACING AND/OR SHORING MUST BE PROVIDED UNTIL PERMANENT BRACING HAS BEEN INSTALLED.
- B. STEEL FRAMING ERECTOR IS CAUTIONED THAT MOST STEEL FRAMING MEMBERS ARE INADEQUATE TO SUPPORT LOADS IF NOT PROPERLY BRACED. CONSEQUENTLY, STRAPPING AND BRIDGING MUST BE IN PLACE AND SHEATHING MUST BE CAREFULLY APPLIED. MOVEMENT OF LABORERS ON UNSHEATHED, UNBRACED AND UNBRIDGED MEMBERS SHOULD NOT BE PERMITTED.

## GENERAL NOTES: STRUCTURAL AND MISC... STEEL

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

- 1. CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS:
- STRUCTURAL & MISC... SHAPES: ASTM A-50
- PIPE COLUMNS: ASTM A-53-B, ASTM A-68-II
- HSS TUBE COLUMNS: ASTM A-500-B
- 2. ALL DETAILING SHALL BE IN CONFORMANCE WITH STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
- 3. UNLESS OTHERWISE NOTED, PROVIDE FRAMED BEAM CONNECTIONS IN ACCORDANCE WITH PART 4, AISC MANUAL -3/4" ASTM A-325BOLTS.
- 4. FIELD CONNECTIONS SHALL BE EQUIVALENT TO STANDARD BOLTED CONNECTIONS USING 3/4" ASTM A-325 BOLTS UNLESS OTHERWISE SHOWN . IF CONNECTION BOLTS ARE IN SINGLE SHEAR, BOLTS SHALL BE PLACED IN TWO VERTICAL ROWS. CONNECTIONS SHALL BE BOLTED OR WELDED - SEE DETAILS.
- 5. WELDING SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION. WELDS NOT CALLED OUT ON DRAWINGS SHALL BE 1/4" CONTINUOUS FILLET WELDS. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E70XX.

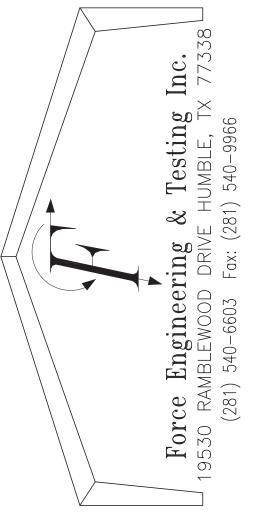
## FASTENER SCHEDULE:

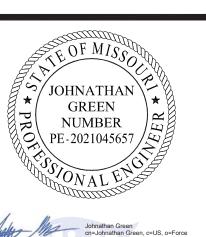
(MINIMUM UNLESS NOTED OTHERWISE IN DETAILS OR PLANS.)

CONNECTED COMPONENTS	FASTENER TYPE & SIZE	SPACING AND/OR NUMBER	REMARKS		
STUD WALLS:					
STUD TO TOP AND BOTTOM TRACKS	#8 SCREWS	2			
PLYWOOD (OR OSB) SHEATHING TO STUDS	#8 SCREWS	6" EDGE 12" FIELD	EA. END OF STUD/EACH FLANGE		
FLOOR JOISTS/DECK:					
JOIST TO WALL TRACK	#8 SCREWS	2 EACH JOIST			
WEB STIFFENER TO JOIST	#8 SCREWS	4	BUNGLE-OR FLAT-HEAD; MIN HEAD DIA. = 0.315"		
FLOOR DECK TO JOIST	#8 SCREWS	6" EDGE 12" FIELD	MIIN MEAD DIA. = 0.313		

CONSTRUCTION As Noted on Plans Review

RELEASED FOR







PROJECT NO.

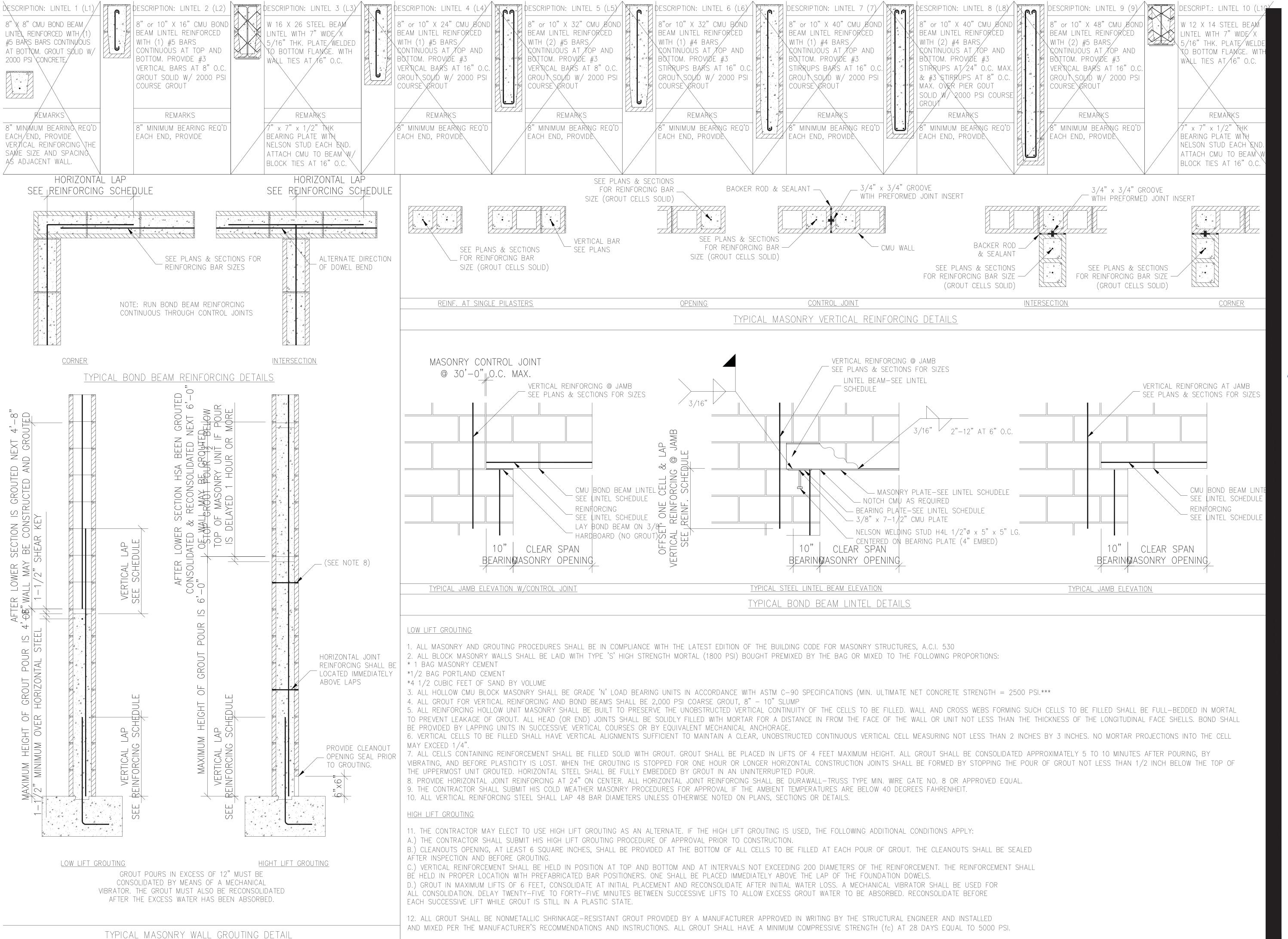
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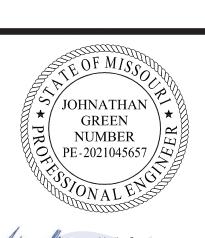
**REVISIONS:** 

LIGHT GAGE NOTES



Development Services Departm Lee's Summit, Missouri 03/18/2022

Force Engineering & Testing Inc.
19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338



Johnathan Green c=LUS, o=Force Engineering and Testing, email=jgreen@forcengineeringtestin I am approving this document 2021.12.15 02:58:21 -06'00'

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SHORIDRIVE

PROJECT NO. 2035

DATE: 12.15.2021

DRAWN:

REVISIONS:

MASONRY NOTES

SHEET NO.

	TESTING & INSPECTION	N REQUIREMENTS			
REQUIRED INSPECTION VERIFICATION OR TEST	APPLICABILITY FOR PROJECT	VERIFICATION MONITORING FREQUENCY	IBC SECTION & REFERENCE CRITERIA	INSPECTOR QUALIFICATIONS	CONTACT FOR TESTING/INSPECTION
SOILS (SLAB ON GRADE)			IBC 1704.7.1		
A. SUB-GRADE 1. VISUAL OBSERVATION AT THE CONTRACTORS EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEV. AND SLOPE	APPLICABLE	PERIODIC	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR	TESTING LAB
2. PROOF ROLLING OBSERVATIONS PROOF ROLLING SHALL BE MONITORED BY A GEOTECHENGR. THE GEOTECH ENGR SHALL APPROVE THE TYPE OF PROOFROLLING EQUIP. AND PROCEDURES	APPLICABLE	CONTINUOUS	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740	TESTING LAB
3. MOISTURE CONDITIONING & RECOMPACTION: PROVIDE (1) DENSITY TEST FOR EACH 2000 S.F. REFER TO NOTES ON BLDG PAD FOR TESTING SPECIFICATIONS	APPLICABLE	PERIODIC	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTE	QUALIFICATIONS BASED ON ASTM D3740	TESTING LAB
B. CHEMICAL INJECTION QUALITY CONTROLLED TESTING & EVALUATION PRIOR TO INJECTION SHALL BE PERFORMED BY THE GEOTECH ENGR. TO DETERMINE THE EFFECTIVENESS OF THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECH FORM SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, DEPTH, AND SWELL TEST RESULTS.		CONTINUOUS	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTE	QUALIFICATIONS BASED ON ASTM D3740	TESTING LAB
C. DURING FILL PLACEMENT VISUAL OBSERVATION: DURING PLACEMENT & COMPACTION OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THAT THE FILL MATERIAL BEING USED & THE MAX. LIFT THICKNESS COMPLY W/ PROJECT REQUIREMENTS. PIT RUN MATERIALS SHALL BE VISUALLY MONITORED BY THE TEST LAB W/ ADDT'L SAMPLES TESTING EACH DAY, OR MORE OFTEN IF MATERIALS APPEAR TO VARY.	APPLICABLE	PERIODIC	BC 1704.7.2 GEOTECHNICAL REPORT BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR	TESTING LAB
D. EVALUATION OF IN-PLACE DENSITY OF FILL PROVIDE (1) DENSITY TEST FOR EACH 2000 S.F. REFER TO NOTES ON BLDG PAD FOR TESTING SPECIFICATIONS	APPLICABLE	CONTINUOUS	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740	TESTING LAB
E. TRENCH BACKFILLING TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECH ENGR. W/ A WRITTEN REPORT SENT TO STRUCTURAL ENGR.	APPLICABLE	PERIODIC			TESTING LAB
C. DURING FILL PLACEMENT VISUAL OBSERVATION: DURING PLACEMENT & COMPACTION OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THAT THE FILL MATERIAL BEING USED & THE MAX. LIFT THICKNESS COMPLY W/ PROJECT REQUIREMENTS. PIT RUN MATERIALS SHALL BE VISUALLY MONITORED BY THE TEST LAB W/ ADDT'L SAMPLES TESTING EACH DAY, OR MORE OFTEN IF MATERIALS APPEAR TO VARY.	APPLICABLE	PERIODIC	BC 1704.7.2 GEOTECHNICAL REPORT BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR	TESTING LAB
D. EVALUATION OF IN-PLACE DENSITY OF FILL PROVIDE (1) DENSITY TEST FOR EACH 2000 S.F. REFER TO NOTES ON BLDG PAD FOR TESTING SPECIFICATIONS	APPLICABLE	CONTINUOUS	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740	TESTING LAB
E. TRENCH BACKFILLING TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECH ENGR. W/ A WRITTEN REPORT SENT TO STRUCTURAL ENGR.	APPLICABLE	PERIODIC			TESTING LAB
2A. PILE FOUNDATIONS			IBC 1704.8	LICENSED GEOTECH ENGINEER	
2B. SHALLOW FOUNDATIONS  A. THE GEOTECH ENGR. OR A QUALIFIED E.I.T. UNDER THE DIRECT SUPERVISION OF THE GEOTECH ENGR. SHALL BE PRESENT DURING THE EXCAVATION OF THE FORST PIER SHAFT.  1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTHS.  2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY.  3. VERIFY CONFORMANCE W/FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT GEOTECH REPORT & THE STRUCTURAL DWGS.	APPLICABLE	PERIODIC	IBC 1704.9 GEOTECHNICAL REPORT, GENERAL NOTES	GRADUATE ENGINEER  ** QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077	TESTING LAB
3. ALL FTGS SHALL BE OBSERVED & MONITORED BY A REPRESENTATIVE OF THE GEOTECH ENGR. W/ A COMPLETE SITE OF STR. DWGS THAT ARE TO REMAIN W/ THE GEOTECH ENGR. OR HIS REPRESENTATIVE.  1. CHECK REINF. SIZES, QTY, AND CLEARANCES.  2. CHECK FTG DEPTH & SIZE.  3. CHECK CONCRETE AS SPECIFIED IN CONCRETE SECTION NOTES.	APPLICABLE	CONTINUOUS	GEOTECHNICAL REPORT, FND. DWGS, DETAILS, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077	TESTING LAB
C. DURING FILL PLACEMENT VISUAL OBSERVATION: DURING PLACEMENT & COMPACTION OF FILL, SPECIAL NSPECTOR SHALL DETERMINE THAT THE FILL MATERIAL BEING USED & THE MAX. LIFT THICKNESS COMPLY W/ PROJECT REQUIREMENTS. PIT RUN MATERIALS SHALL BE VISUALLY MONITORED BY THE TEST LAB W/ ADDT'L SAMPLES TESTING EACH DAY, OR MORE OFTEN IF MATERIALS APPEAR TO VARY.	APPLICABLE	PERIODIC	BC 1704.7.2 GEOTECHNICAL REPORT BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR	TESTING LAB
D. EVALUATION OF IN-PLACE DENSITY OF FILL PROVIDE (1) DENSITY TEST FOR EACH 2000 S.F. REFER TO NOTES ON BLDG PAD FOR TESTING SPECIFICATIONS	APPLICABLE	CONTINUOUS	GEOTECHNICAL REPORT, BLDG PAD, GENERAL NOTES	QUALIFICATIONS BASED ON ASTM D3740	TESTING LAB
3. CONCRETE CONSTRUCTION					
A. REINFORCING STEEL PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, REBAR GRADE, & PLACEMENT @ THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOISTS: 10% OTHER MEMBERS: RANDOMLY @ 20%	APPLICABLE	PERIODIC	IBC 1704.4, ACI 318: CH 35, 7.1-7.7, CONCRETE & REINF. GENERAL NOTES	QUALIFICATIONS BASED ON ASTM E329	FORCE ENGINEERING & TESTING,
B. REINFORCING STEEL WELDING NO FIELD WELDING PERMITTED	APPLICABLE		AWS D1.4 ACI 318: 3.5.2	CERTIFIED WELDER	FORCE ENGINEERING & TESTING,
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	NOT APPLICABLE	CONTINUOUS	IBC 1704.4	CWI OR ASSOCIATE CWI	
D. VERIFY USE OF CONCRETE MIX DESIGN. (EACH CONCRETE POUR)	APPLICABLE	PERIODIC	ACI 318-CH 4, 5.2-5.4	QUALIFICATIONS BASED ON ASTM C1077	FORCE ENGINEERING & TESTING,
E. SAMPLING OF MESH CONCRETE.  I. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE.  2. PROVIDE A SET OF (4) CYLINDERS TO BE TAKEN FOR EVERY 75 CUBIC YDS. OF CONCRETE.  3. MONITOR SLUMP & AIR CONTENT OF CONCRETE & NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN  +/- 1 INCH FROM RECOMMENDED VALUE. CONTACT SUPPLIER FOR FURTHER DIRECTIONS.	APPLICABLE	PERIODIC	ACI 318-CH 4, 5.2-5.4	QUALIFICATIONS BASED ON ASTM C1077	FORCE ENGINEERING & TESTING,
F. PLACEMENT OF CONCRETE & SHOTCRETE.	NOT APPLICABLE	CONTINUOUS	ACI 318 - CH 5.9, 5.10	QUALIFICATIONS BASED ON ASTM C1077	
G. MAINTENANCE OF SPECIFIED CURING TEMP. & TECHNIQUES (EACH CONCRETE POUR)	APPLICABLE	PERIODIC	ACI 318 - CH 5.11, 5.13	QUALIFICATIONS BASED ON ASTM C1077	TESTING LAB
H. PRESTRESSED CONCRETE 1. APPLICATION OF PRE-STRESSING FORCE. 2. GROUTING OF BOUNDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS	NOT APPLICABLE	CONTINUOUS		QUALIFICATIONS BASED ON ASTM C1077	
I. ERECTION OF TILT-UP CONCRETE MEMBERS.	NOT APPLICABLE	PERIODIC		TECHNICIAN TRAINED IN FIELD OF WORK & HAS AT LEAST TWO YEARS OF EXPERIENCE	
J. POST TENSIONED CONCRETE.				OT ENERGE	
I. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.	NOT APPLICABLE	EACH POUR		QUALIFICATIONS BASED ON ASTM E329	NOT APPLICABLE
2. THE POST-TENSIONING ENGINEER OR A MEMBER OF HIS STAFF SHALL INSPECT THE TENDON PLACEMENT & CHAIRING TO ENSURE COMPLIANCE W/THE INTENT OF THE DESIGN.	NOT APPLICABLE	PERIODIC		QUALIFICATIONS BASED ON ASTM E329	NOT APPLICABLE
3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES.	NOT APPLICABLE	CONTINUOUS		QUALIFICATIONS BASED ON ASTM E329	NOT APPLICABLE
4. RECORDS OF ALL JACKING FORCES & ELONGATINS SHALL BE MADE IN ACCORDANCE W/PTI FIELD MANUAL & RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT & ENGINEER.	NOT APPLICABLE	CONTINUOUS		QUALIFICATIONS BASED ON ASTM E329	NOT APPLICABLE
K. REMOVAL OF SHORES. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	NOT APPLICABLE	CONTINUOUS DURING EACH CONCRETE POUR	ACI 318 - CH 5.6, 5.8	QUALIFICATIONS BASED ON ASTM C1077	NOT APPLICABLE
4. STEEL CONSTRUCTION  A. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS & WASHERS.  I. ID MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONST. DOCS.  2. MFGRS CERTIFICATE OF COMPLIANCE REO'D.	APPLICABLE	PERIODIC	AISC 33, SECTION A3.4; AISC LRFD	CWI/ASSOCIATE/TECHNICAL GRADUATI AWS OR SRSI	TESTING LAB
2. III OND CENTIFICATE OF COMICEMINOLINEW D.	APPLICABLE	PERIODIC	SECTION A33  IBC 1704.3.3; STRUCTURAL STEEL	CWI/ASSOCIATE/TECHNICAL GRADUATI	TESTING LAB
B. HIGH-STRENGTH BOLTING.		· -	NOTES	AWS OR SRSI	
B. HIGH-STRENGTH BOLTING.  1. BEARING TYPE CONNECTIONS.  2. SLIP-CRITICAL CONNECTIONS.	NOT APPLICABLE	PERIODIC	AISC LRFD SECTION M2.5	CWI/ASSOCIATE/TECHNICAL GRADUATI	TESTING LAB
1. BEARING TYPE CONNECTIONS.		PERIODIC PERIODIC		CWI/ASSOCIATE/TECHNICAL GRADUATI AWS OR SRSI CWI/ASSOCIATE/TECHNICAL GRADUATI AWS OR SRSI	IESTING LAB

VERIFICATION CONTACT FOR APPLICABILITY FOR IBC SECTION & INSPECTOR REQUIRED INSPECTION VERIFICATION OR TEST MONITORING TESTING/INSPECTION PROJECT REFERENCE CRITERIA QUALIFICATIONS FREQUENCY . WELDING OF STRUCTURAL STEEL. IBC 1704.3.1; STRUCTURAL NOTED | CWI/ASST/LICENSED ENGINEER NOT APPLICABLE CONTINUOUS TESTING LAB 1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS. CWI/ASST/LICENSED ENGINEER NOT APPLICABLE CONTINUOUS TESTING LAB 2. MULTI PASS FILLET WELDS AWS D1.1 3. SINGLE-PASS FILLET WELDS > 5/16" CWI/ASST/LICENSED ENGINEER APPLICABLE CONTINUOUS AWS D1.1 TESTING LAB

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5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL

6. MASONRY CONSTRUCTION

CWI/ASST/LICENSED ENGINEER

CWI/ASST/LICENSED ENGINEER

CWI/ASST/TECHNICIAN W/AT LEAST

(1) YEAR OF FIELD EXPERIENCE

LICENSED PROFESSIONAL ENGINEER

CERTIFIED BY AISC CERTIFICAITON

PROGRAM

QUALIFICATION BASED ON ASTM

QUALIFICATION BASED ON ASTM

C1093

QUALIFICATION BASED ON ASTM

C1093

QUALIFICATION BASED ON ASTM

C1093

QUALIFICATION BASED ON ASTM

C1093

AWS D1.3

IBC 1704.3.2; STRUCTURAL STEEL DWGS

IBC 1704.3.2; STRUCTURAL STEEL DWGS

IBC 1704.3.2; STRUCTURAL STEEL

IBC 1704.3.2; & 1704.2.2; AISC

CERTIFICATION PROGRAM

IBC 1704.5.2

ACI 530.1 ART 2.6A

ACI 530.1 ART 3.3B

ACI 530.1 ART 3.4, 3.6A

ACI 530.1 ART 3.6A

ACL 530.1 ART 2.4B, 2.4H

ACI 530.1 ART 3.3G

ACI 530 SEC 1.2.2(e), 2.14,3.1.6

ACI 530.1 ART 2.4, 3.4

ACI 530.1 ART 1.8C, 1.8D

ACI 530.1 ART 3.6B

ACI 530.1 ART 3.2

ACI 530.1 ART 3.4

ACI 530.1 ART 2.6B

ACI 530.1 ART 3.3B

ACI 530.1 ART 3.5

ACI 530.1 ART 3.4

ACI 530.1 ART 1.4

ACI 530.1 ART 1.5

ACI 530 SEC 2.1.10.7.2,3.3.3.4(b) QUALIFICATION BASED ON ASTM

TESTING LAB

CONTINUED.....

4. SINGLE-PASS FILLET WELDS </=5/16"

. WELDING OF REINFORCMING STEEL.

1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN A706.

S. STEEL FRAME JOINTS DETAILS COMPLIANCE W/APPROVED CONST. DOCS.

2. REINFORCING STEEL-RESISTING FLEXURAL & AXIAL FORCES IN INTERMEDIATE & SPECIAL MOMENT FRAMES, &

SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR WHO IS REGISTERED & APPROVED TO PERFORM SUCH WORK W/O SPECIAL INSPECTION I.E., "AISC CERTIFIED". AT

COMPLETION OF THE FABRICATION, THE "APPROVED" FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO

THE BLDG CODE OFFICIAL AND THE ENGINEER IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED

2. TYPE, SIZE, & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL

5. PROTECTION OF MASONRY DURING COLD WEATHER (BELOW 40 DEG.) OR HOT WEATHER (ABOVE 90 DEG.)

3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:

2. PLACEMENT OF REINFORCEMENT AND CONNECTORS & PRESTRESSING TENDONS AND ANCHORAGES

3. PROPORTIONS OF SITE-PREPARED GROUT & PRESTRESSING GROUT FOR BONDED TENDONS

D. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE W/CODE & CONST DOCS.

E. PREPARATION OF ANY REQUIRED GROUT SPECIMENT, MORTAR SPECIMENS, AND/OR PRISMS SHALL BE OBSERVED.

F. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONST DOCS & THE APPROVED SUBMITTALS SHALL

A. AS MASONRY CONST BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE

BOUNDARY ELEMENTS OF SPECIAL REINFORCING CONCRETE SHEAR WALLS & SHEAR REINFORCEMENT.

5. FLOOR & DECK WELDS.

3. SHEAR REINFORCEMENT

4. OTHER REINFORCING STEEL

. MEMBER LOCATIONS

LEVEL 1 INSPECTION

2. CONST OF MORTAR JOINTS.

4. PRESTRESSING TECHNIQUE

. DETAILS SUCH AS BRACING & STIFFENING.

IAW THE APPROVED CONST. DOCUMENTS

1. PROPORTIONS OF SITE-PREPARED MORTAR.

3. LOCATION OF REINFORCEMENT & CONNECTORS.

2. THE INSPECTION PROGRAM SHALL VERIFY:

MEMBERS, FRAMES, OR OTHER CONST.

4. WELDING IF REINFORCING BARS

6. APPLICATION OF PRESTRESSING FORCE

4. CONSTRUCTION OF MORTAR JOINTS

BE VERIFIED

1. GROUTING OF PRESTRESSING BONDED TENDONS.

1. GROUT SPACE IS CLEAN

1. SIZE & LOCATION OF STRUCTURAL ELEMENTS.

3. SPECIFIED SIZE, GRADE & TYPE OF REINFORCEMENT

5. GRADE & SIZE OF PRESTRESSING TENDONS & ANCHORAGES.

. APPLICATION OF JOINT DETAILS @ EACH LOCATION

CONSTRUCTION As Noted on Plans Review

RELEASED FOR



PROJECT NO. 2035

12.15.2021 DATE: DRAWN:

**REVISIONS:** 

TESTING & INSPECTION

### HEADROOM REQUIRED

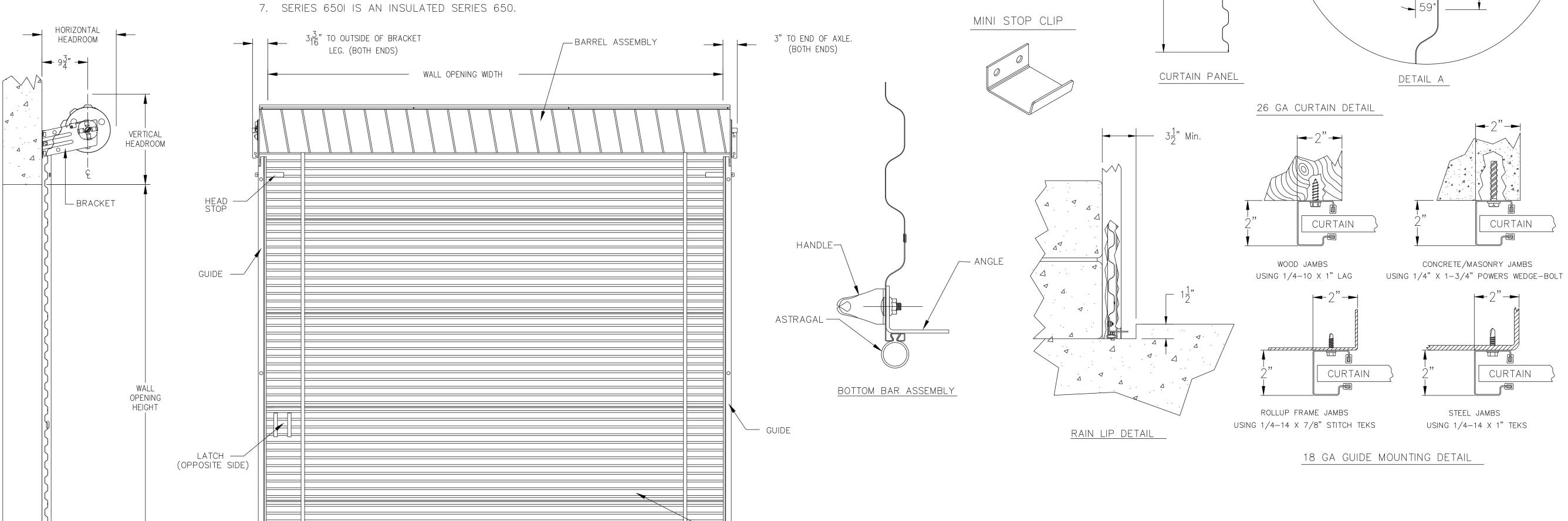
OPENING HEIGHT	VERTICAL HEADROOM	HORIZONTAL HEADROOM
THRU 7'-4"	15-1/2"	17"
OVER 7'-4" THRU 8'-8"	16"	17-1/2"
OVER 8'-8" THRU 10'-0"	17"	18-1/4"

MINI STOP CLIP

END VIEW

- 1. CLEARANCES SHOWN ARE MAXIMUMS, LESSER CLEARANCES MAY BE POSSIBLE.
- 2. ALL OPENING PREPARATION AND FIELD PAINTING SHALL BE PROVIDED BY OTHERS.
- 3. CURTAIN FINISH SHALL BE SILICON POLYESTER PRE-PAINT OVER GALVANIZED GRADE 80 STEEL.
- 4. GUIDES, BRACKETS, BOTTOM BAR ANGLE, HEAD STOPS AND HANDLES ARE ZINC COATED.
- 5. UNLESS OTHERWISE NOTED, LOCKING SHALL BE BY SINGLE MINI SLIDE LATCH BOLTED TO CURTAIN AND SUITABLE FOR DOUBLE PADLOCKS AND SINGLE CYLINDER LOCK BY OTHERS.
- 6. LATCH COVER IS YELLOW ZINC (STAINLESS STEEL OPTIONAL) AND SLIDE IS MAGNETIC STAINLESS.

INSIDE ELEVATION



CURTAIN

BOTTOM BAR ASSEMBLY

MINI LATCH

OUTSIDE OF DOOR VIEW

MINI LATCH CYLINDER

LOCK BACK PLATE

(ONLY USED WITH CYLINDER LOCK)

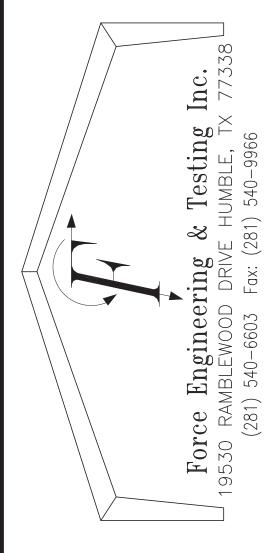
INSIDE OF DOOR VIEW

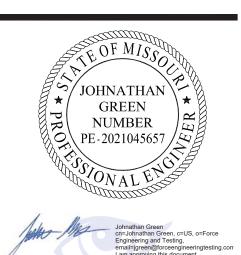
SEE DETAIL A

MINI DOOR SERIES: 650

 $TYP 3\frac{1}{4}$ "

RELEASED FOR CONSTRUCTION
As Noted on Plans Review





2035

12.15.2021

PROJECT NO.

DRAWN:

REVISIONS:

ROLL-UP DOORS

SHEET NO.

#### A. FOUNDATION AND SLAB ON GRADE

ISOLATED FOOTINGS ————

- 1. THE SUBSURFACE AND SHALLOW FOUNDATION DESIGN ARE BASED UPON ON A REPORT PREPARED BY KTI PROJECT NO. 219188G DATED JANUARY 8, 2020 & ADDENDUM #1 DATED JULY 19, 2021. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOOTING CONSTRUCTION, AND PREPARATION OF THE SUBGRADE UNDER THE SLAB ON GRADE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS.
- 2. THE FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING ALLOWABLE SOIL BEARING PRESSURES BASED ON THE ABOVE GEOTECHNICAL REPORTS AT THE TIME THE REPORT WAS PREPARED STRUCTURAL FOUNDATION/SLAB ——— SHALLOW SPREAD FOOTING NET ALLOWABLE LOAD ————
- 3. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE ARCHITECT, GEOTECHNICAL ENGINEER AND FORCE ENGINEERING & TESTING BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
- 4. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND FORCE ENGINEERING & TESTING, 24 HOURS PRIOR TO PLACEMENT OF CONCRETE IN THE FOOTINGS.
- 5. FOUNDATIONS SHALL BEAR ON EITHER LIMESTONE BEDROCK OR COMPACTED MDOT TYPE 5 AGGREGATE FILL PLACED AT 95% STANDARD PROCTOR DENSITY. IN NO CASE SHALL FOUNDATION BEAR ON BOTH SITE SOILS AND BEDROCK MATERIALS.
- 6. THE FLOOR SUBGRADE SHALL BE PROPERLY COMPACTED AND PROOFROLLED AND SHALL BE FREE OF STANDING WATER, MUD AND FROZEN SOIL.
- 7. A VAPOR BARRIER WITH A PERFORMANCE EQUIVALENT TO A 10 MIL VISQUEEN SHALL BE PLACED BENEATH THE SLAB ON GRADE.
- 8. SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS AT EACH COLUMN LINE IN EACH DIRECTION. ADDITIONAL CRACK CONTROL JOINTS SHALL BE PROVIDED, SUCH THAT NO AREA BOUNDED BY CONSTRUCTION AND/OR CRACK CONTROL JOINTS CONTAINS MORE THAN 400 SQ.FT. OF SLAB AREA, THE SPACING OF THE JOINTS DOES NOT EXCEED 36 TIMES THE SLAB THICKNESS, AND THE RESULTING ASPECT RATIO OF THE DIMENSIONS OF SLAB AREA DOES NOT EXCEED 1.5 TO 1. CRACK CONTROL JOINTS SHALL BE MADE USING A "SOFT-CUT" CONCRETE SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH. THE CRACK CONTROL JOINTS SHALL BE CUT A MAXIMUM WIDTH OF 1/8 INCH AND A MINIMUM DEPTH OF 1/4 OF THE SLAB THICKNESS. REFER TO THE DRAWINGS FOR INFORMATION ON CONTROL JOINTS, CONSTRUCTION JOINTS, REINFORCEMENT DETAILS AND JOIT SEALANT DETAILS.

### 9. NOT USED

- 10. ALL SOIL SURROUNDING AND BENEATH ALL FOOTINGS, SLABS. ETC. SHALL BE PROTECTED AGAINST FROST OR FREEZING DURING CONSTRUCTION.
- 11. OWNER/CONTRACTOR ASSUMES FULL RESPONSABILITY FOR FOUNDATION DESIGN WHEN A GEOTECHNICAL REPORT IS NOT PROVIDED TO THE ARCHITECT AND/OR ENGINEER.
- 12. OWNER/CONTRACTOR ASSUMES FULL RESPONSABILITY FOR ONSITE SOIL CONDITIONS. REPORT IS NOT PROVIDED TO THE ARCHITECT AND/OR ENGINEER.
- 13. THE CONSTRACTOR SHOULD EMPLY PROFESSIONAL GEOTECHNICAL ENGINEER TO INSPECT THE FOUNDATION AND BEARING LEVEL AND VERIFY THAT THE MATERIAL ON WHICH THE FOUNDATIONS WILL BEAR HAS AT LEAST THE ABOVE NOTED CAPACITY AND GIVE GIVE RECOMMENDATIONS FOR SUBGRADE PREPARATION. STRICTLY FOLLOW GEOTECHNICAL ENGINEERS RECOMMENDATIONS FOR SUBBASE AND FOOTING BEARING MATERIAL AND PREPARATION AS SPECIFIED.
- 14. IMMEDIATELY NOTIFY THE ENGINEER AND/OR ARCHITECCT IF UNSUITABLE SOIL OR SOIL CONDITIONS AT VARIANCE WITH THE GEOTECHNICAL REPORT IS DISCOVERED AT THE FOOTING ELEVATIONS SPECIFIED.
- 15. NO BACKFILL SHALL BE PLACED AGAINST WALLS UNTIL WALLS AND SLABS (OR HORIZONTAL BEAMS AND STRUTS) SUPPORTED THEREON HAVE ATTAINED DESIGN STRENTH OR PRIOR TO THE COMPLETE INSTALLATION OF THE LATERAL LOAD RESISTING SYSTEM.
- 16. BACKFILL BEHIND ALL RETAINING AND/OR BASEMENT WALL WITH FREE DRAINING GRANULAR FILL AND PROVIDE SUBSURFACE DRAINAGE AS REQUIRED. ALL BACKFILL MATERIAL SHALL CONFORM STRICTLY WITH THE RECOMMEDATIONS GIVEN IN THE GEOTECHNICAL REPORT MENTIONED ABOVE OR PER A PROFESSIONAL GEOTECHNICAL ENGINEER'S FIELD INSTRUCTIONS.
- 17. PROVIDE VERTICAL CONTROL JOINTS IN RETAINING WALLS AS INDICATED. PROVIDE ADDITIONAL JOINTS AS REQUIRED SO THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING OF 3.0 x WALL HEIGHT (25 FEET MAXIMUM). PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINTS, UNLESS OTHERWISE NOTED.
- 18. THE EXISTENCE OF UNDERGROUND STRUCTURES AND/OR UTILITIES IS NOT KNOWN. IT IS THE CONTRACTOR'S RESPONSABILITY TO COORDINATE WITH THE OWNER OR NECESSARY AUTHORITIES THE LOCATIONS OF ALL EXISTING UNDERGROUND STRUCTURES AND/OR ULTILITIES.
- 19. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SEWWERS, DRAINS, CONDUITS, PIPES, ETC. THE BOTTOM OF FOOTING SHALL BE SET AT OR BELOW THE INVERT ELEVATION OF THE ADJACENT ELEMENT.

#### JOINT NOTES:

- 1. JOINT LOCATIONS SHOWN ARE RECOMMENDATION ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SLAB SHRINKAGE JOINTING JOINTING TO PREVENT UNACCEPTABLE CRACKING. ALL JOINTS SHOULD NOT FALL BELOW OR WITHIN 18" OF A POST LINE OR BEARING WALL. THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED UPON A REPORT BY: INTERTEK/PSI PROJECT NO. 3381473 DATED NOV. 30, 2016.
- 2. SAW CUT JOINTS AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH. THE DEPTH OF SAW CUT JOINTS SHALL BE 1/4 OF THE SLAB THICKNESS, UNLESS OTHERWISE NOTED.
- 3. LENGTH-TO-WIDTH RATIO OF JOINT SPACING SHALL NOT EXCEED 1.5:1
- 4. CONTROL JOINT SHALL BE SUBSTITUTED FOR ANY CONST JOINT OMITTED BY CONTRACTOR. PROVIDE DOWELED CONST JOINT AT THE END OF CONC PLACEMENT FOR EACH POUR.
- 5. PROVIDE 2-#4 X 4-'0" LONG @ 4" OC AT MID-DEPTH OF SLAB AT CORNERS OF BLOCK-OUTS AND ARE RE-ENTRANT CORNER WHERE CJ'S DO NOT OCCUR.

- CONCRETE NOTES B. <u>CONCRETE</u>
  - 1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NATURAL SAND FINE AGGREGATE AND NORMAL WEIGHT COARSE AGGREGATES CONFORMING TO ASTM C33, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150, AND SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTH (FC') AT 28 DAYS:

FOOTINGS —	3000 PS
GRADE BEAMS	3000 PS
SLAB ON GRADE	4000 PS
MONO-LITHIC	4000 PS

- 2. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP-66 "DETAILING MANUAL". PLACING OF REINFORCING BARS SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315R "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" AND CRSI "MANUAL OF STANDARD PRACTICE".
- 3. MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301.
- 4. MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS:

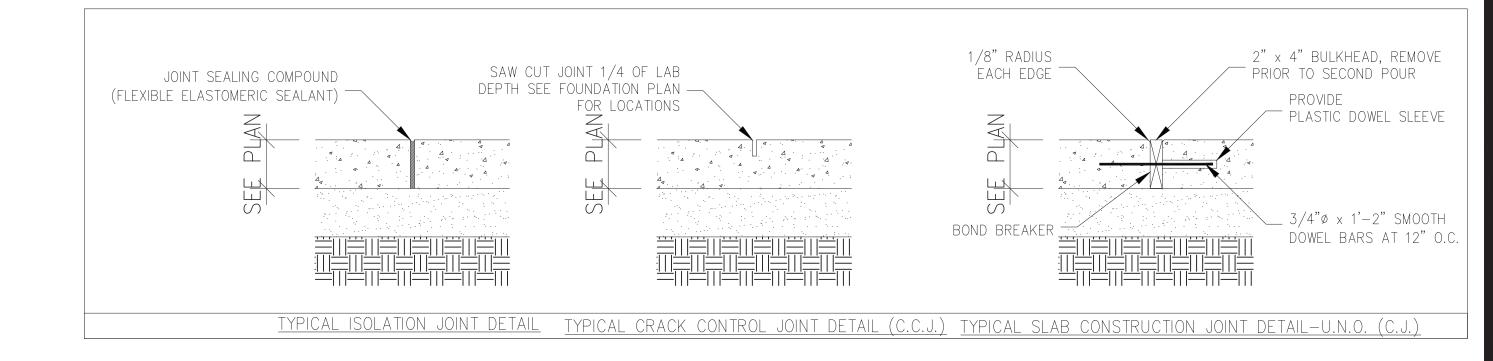
(SEE ACI 318 SECTION 7.7 FOR CONDITIONS NOT NOTED)	
CONCRETE EXPOSED TO WEATHER  #5 BARS AND SMALLER  ALL OTHER BARS  CONCRETE CAST AGAINST EARTH  GRADE BEAMS:	— 2 INCHES
TOP  BOARD FORMED SIDES  EARTH FORMED SIDES  BOTTOM  SLAB ON GRADE	— 2 INCHES — 3 INCHES
SINGLE LAYER OR TOP LAYER  BOTTOM LAYER CAST AGAINST SOIL  BOTTOM LAYER NOT CAST AGAINST SOIL  BEAMS  WALL BELOW GRADE (BACKFILLED SIDE)  WALL BELOW GRADE (NO BACKFILL)	3 INCHES 2 INCHES 2 INCHES 2 INCHES

PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION

- 5. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- 6. WELDING OF REINFORCEMENT BARS, WHEN ACCEPTED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.4. ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCEMENT BARS SHALL CONFORM TO ASTM A233, CLASS E90XX.
- 7. REINFORCEMENT DESIGNATED AS "CONTINUOUS" MAY BE SPLICED USING TYPE "B" SPLICES. REINFORCEMENT BAR SPLICE LENGTHS IN BEAMS WHICH ARE LOCATED AT THE CENTERLINE OF SUPPORTS FOR BOTTOM BARS AND AT MIDSPAN FOR TOP BARS MAY BE 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE. PROVIDE STANDARD ACI HOOKS FOR TOP AND BOTTOM BARS AT DISCONTINUOUS ENDS OF ALL GRADE BEAMS. ENDS OF ALL GRADE BEAMS.
- 8. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90-DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 36 BAR DIAMETERS, AT CORNERS AND INTERSECTIONS.
- 9. HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS MAY OCCUR AT CENTER OF SPANS AT LOCATIONS REVIEWED BY FORCE ENGINEERING & TESTING, INC..
- 10. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, CHAPTER 6.3.
- 11. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF+) CONFORMING TO ASTM C94 WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I OR II. MAXIMUM AGGREAGATE SIZE SHALL BE 1-1/2" FOR FOOTING AND 3/4" FOR WALLS AND SLABS, CONFORMING TO ASTM C33.
- 12. ALL CONCRETE SHALL BE A MINIMUM COMPRESSIVE STRENGTH (fc) AT 28 DAYS, SLUMP AND MAXIMUM WATER/CEMENT RATION REQUIREMENTS. B. CONCRETE FILL: 2500 PSI 2' - 4" SLUMP W/C RATIO = .58 C. SLABS: 4000 PSI 2' - 4" SLUMP W/C RATIO = .53
- 13. OBTAIN EACH TYPE OF CEMENT OF THE SAME BRAND FROM THE SAME MANUFACTURER'S PLANT, EACH AGGREGATE FROM ONE SOURCE, AND EACH ADMIXTURE FROM THE SAME MANUFACTURER.
- 14. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE ENTRAINED AIR IN ACCORDANCE WITH SECTION 1904 OF THE IBC.

16. ALL ADMIXTURES SHALL CONFORM TO ASTM C260, C494, C618, C989 AND C1017 (LISTING IS NOT ALL INCLUSIVE).

15. FOR AIR ENTRAINED CONCRETE - MAXIMUM W/C RATIO = .44 AGGREGATE FROM ONE SOURCE, AND EACH ADMIXTURE FROM THE SAME MANUFACTURER.



TYP. LAP	SPLICE AND [	DEVELOPMENT	LENGHT SCH	EDULE FOR S	TRUCTURAL M	IASONRY
BAR SIZE	ANY BAR W/CLEAR SPACING TO ALL ADJACENT PARALLEL BARS AND CLEAR COVER TO THE BLOCK SURFACE OF AT LEAST (5) BAR DIAMETERS	ANY BAR W/AT LEAST SPACING TO ALL ADJAC PARALLEL BARS AND 4 COVER TO THE BLOCK	ANY BAR W/AT LEAST 3" CLEAR SPACING TO ALL ADJACENT PARALLEL BARS AND 3" CLEAR COVER TO THE BLOCK SURFACE	ANY BAR W/AT LEAST 2" CLEAR SPACING TO ALL ADJACENT PARALLEL BARS AND 2" CLEAR COVER TO THE BLOCK SURFACE	ANY BAR W/AT LEAST 1 3/4" CLEAR SPACING TO ALL ADJACENT PARALLEL BARS AND 1 3/4" CLEAR COVER TO THE BLOCK SURFACE	ANY BAR W/ONLY 1" CLEAR SPACING TO ALL ADJACENT PARALLEL BARS
fm - 1500	poi fy –	 6000psi	Ld AND SPL	UE		
fm = 1500			0.1	26	20	7.0
#4	21	21	21	26	29	36
#5	26	26	27	40	45	45
#6	40	40	50	54	54	54

LMM ILC.

. REINFORCING MAY BE CONSIDERED TO BE SPLICED WHEN IN CONTACT OR WHEN THE BARS ARE SPACED NO FURTHER APART THAN 1/5 THE REQUIRED LAP LENGTH INDICATED AND NEVER FURTHER APART THAN 8"

2. THE CLEAR SPACING NOTED ABOVE SHALL BE MAINTAINED BETWEEN ADJACENT NIRS OF SPLICED BARS AND THE CLEAR COVER NOTED ABOVE SHALL BE MAINTAINED AT BAR SPLICES.

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3. CLEAR SPACING AND CLEAR COVER NOTED ABOVE ARE MINIMUMS. LARGER SPACING AND COVERS ARE ACCEPTABLE. SELECT THE SPLICE LENGTH BASED ON THE WORST CASE OF SPACING OR COVER.

4. ALL TABULATED VALUES ARE IN INCHES.

	TYP. I				HOOKED					DP BARS	HOOKEI
BAR SIZE	MISC	C. BARS	1	note #3)		BAR SIZE	MIS	C. BARS		e note #3)	
JIZL	Ld	SPLICE	Ld	SPLICE	Ldh	JIZL	Ld	SPLICE	Ld	SPLICE	Ldh
fc =	300	0psi				fc =	400	Opsi			
#3	17	23	22	29	9	#3	15	20	19	25	8
#4	22	29	29	38	11	#4	19	25	25	33	10
#5	28	37	36	47	14	#5	24	32	31	41	12
#6	33	43	43	56	17	#6	29	38	37	49	15
#7	48	63	63	82	20	#7	42	55	54	71	17
#8	55	72	72	94	22	#8	48	63	62	81	19
#9	62	81	81	106	25	#9	54	71	70	91	22
#10	70	91	91	119	28	#10	61	80	79	103	25
#11	78	102	101	132	31	#11	67	88	87	114	27

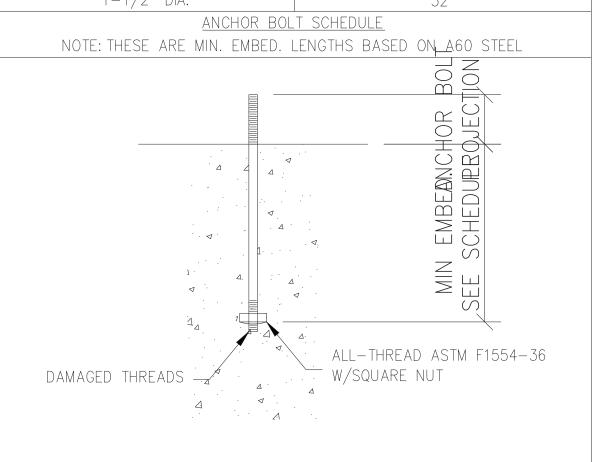
VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > db, CLEAR COVER > db AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2db AND CLEAR COVER > db.

2. DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH Ld.

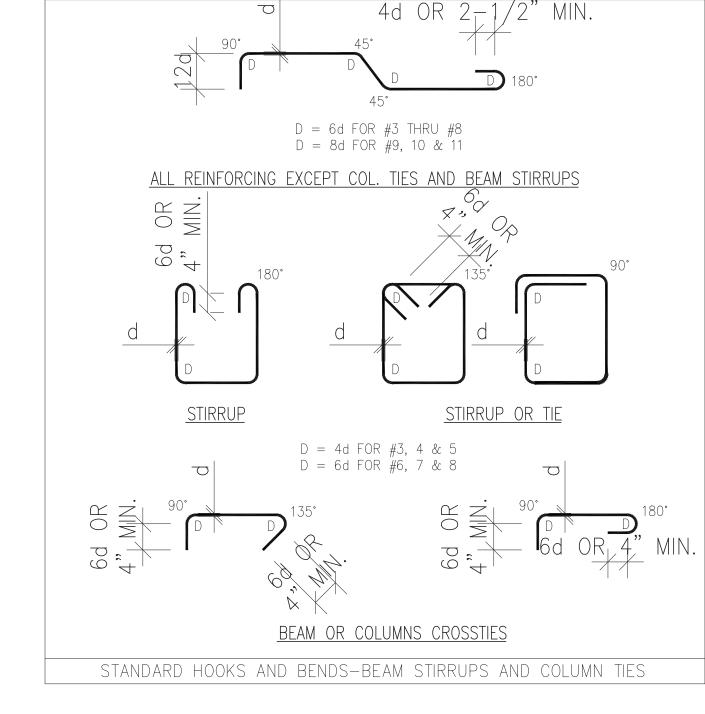
3. TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW (EXCLUDING WALL HORIZONTAL REINFORCING) OR AS NOTED ON DOCUMENTS AS "TOP BAR"

4. ALL TABULATED VALUES ARE IN INCHES.

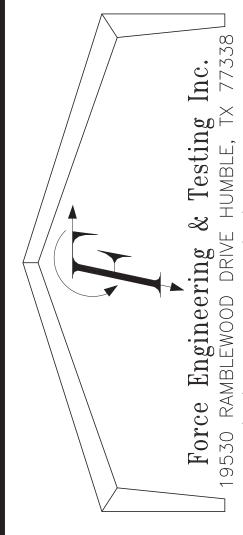


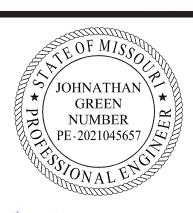


ANCHOR BOLT DETAIL



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PROJECT NO. 2035

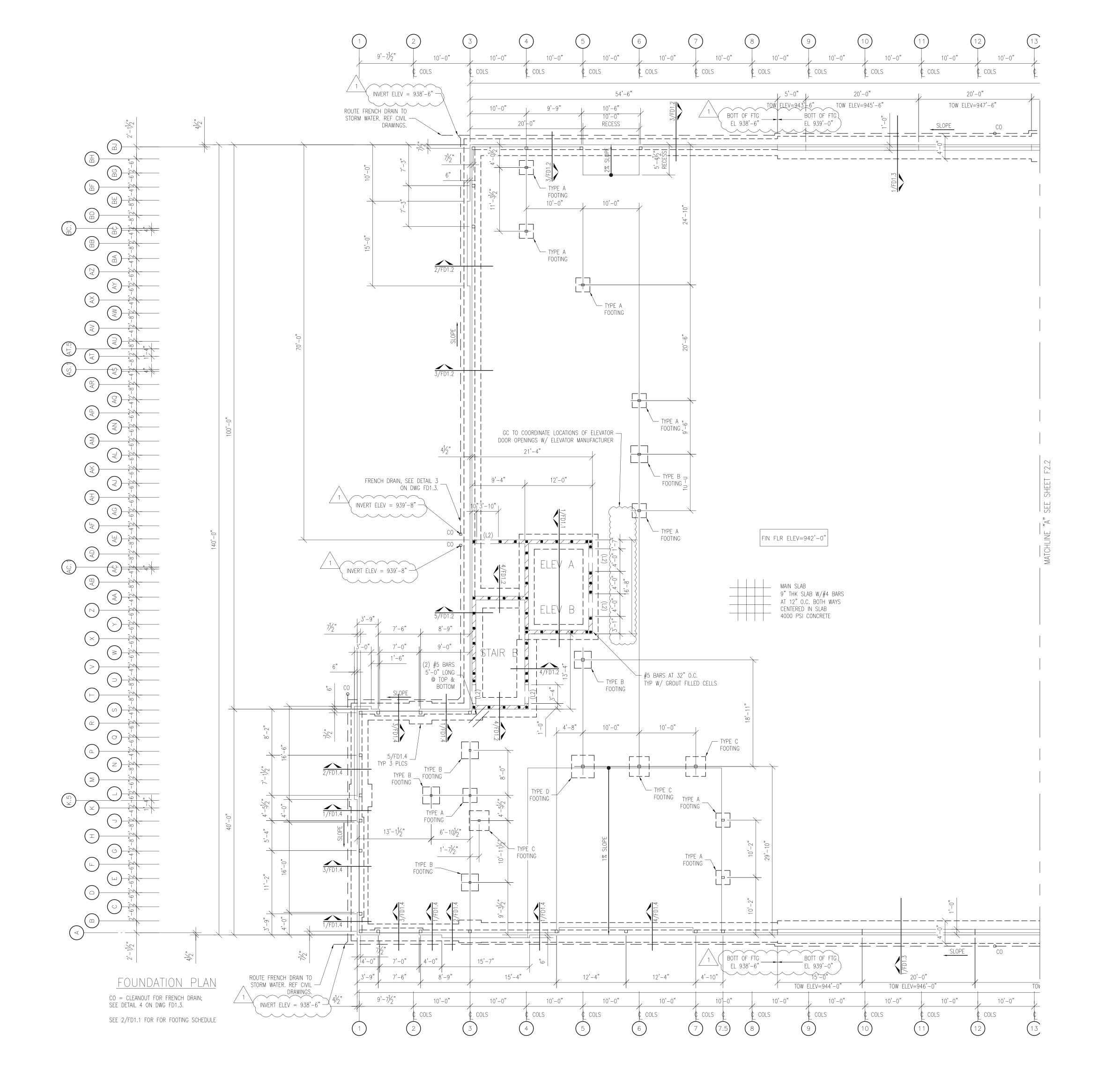
12.15.2021

DRAWN:

DATE:

**REVISIONS:** 

CONCRETE NOTES



PROJECT NO.

DRAWN:

REVISIONS:

DATE: 12.15.2021

2035

JOHNATHAN GREEN
NUMBER

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CONSTRUCTION
As Noted on Plans Review

F2.1

FOUNDATION

PLAN



PROJECT NO. 2035 12.15.2021

DRAWN:

REVISIONS:

FOUNDATION PLAN

SHEET NO.

F2.2

DRAWN:

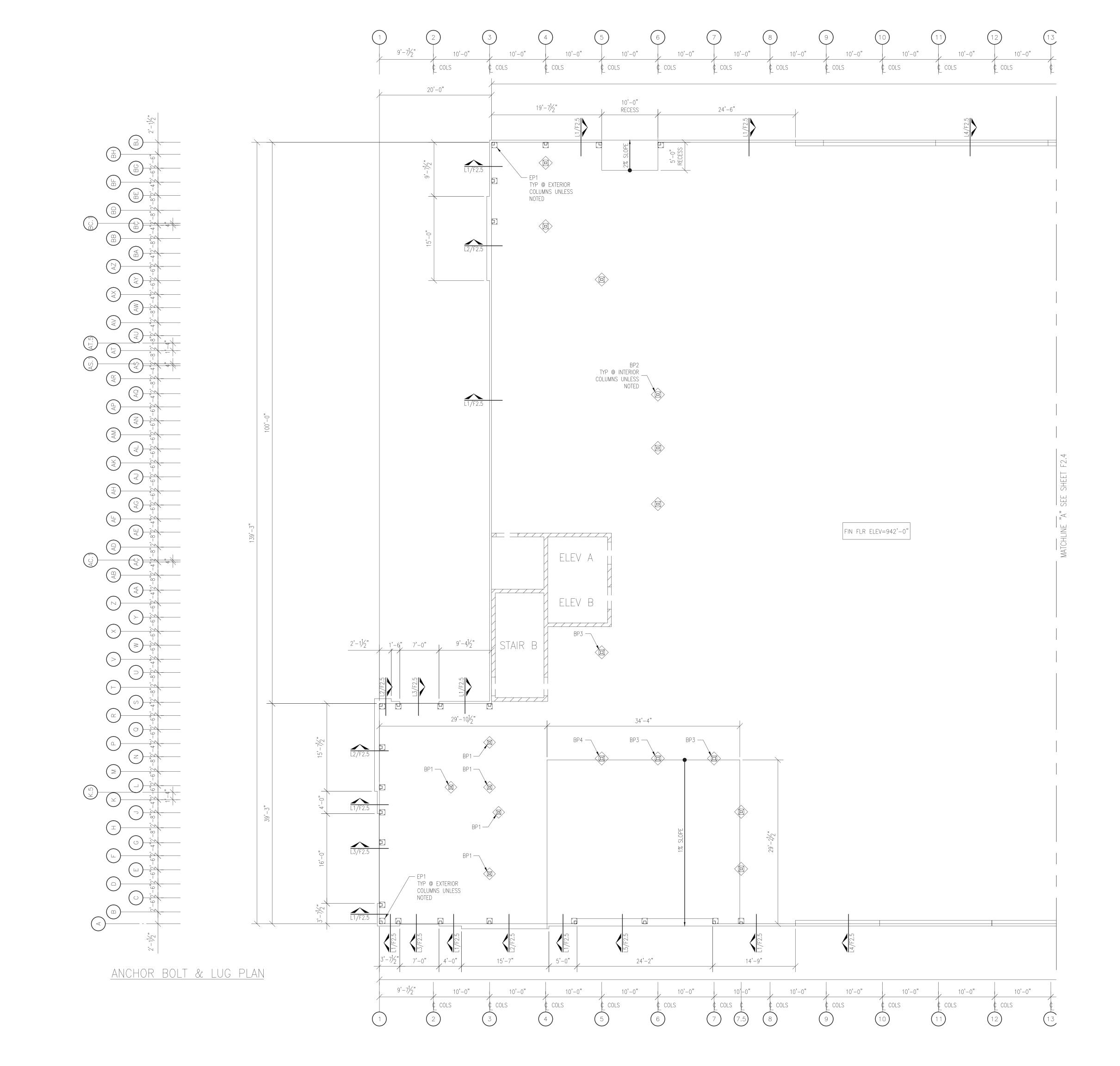
REVISIONS:

A.B. & LUG

PLAN

SHEET NO.

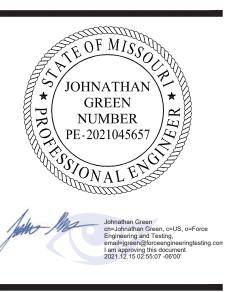
F2.3



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Development Services Department
Lee's Summit, Missouri
03/18/2022

Force Engineering & Testing Inc.
19530 RAMBLEWOOD DRIVE HUMBLE, TX 773
(281) 540-6603 Fax: (281) 540-9966



AKEWOOD SHORAGE

PROJECT NO. 2035

DATE: 12.15.2021

DRAWN:

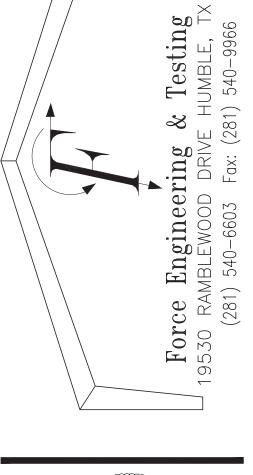
REVISIONS:

A.B. & LUG PLAN

SHEET NO.

F2.4

LUG DETAIL 3 - L3



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PROJECT NO. 2035

12.15.2021

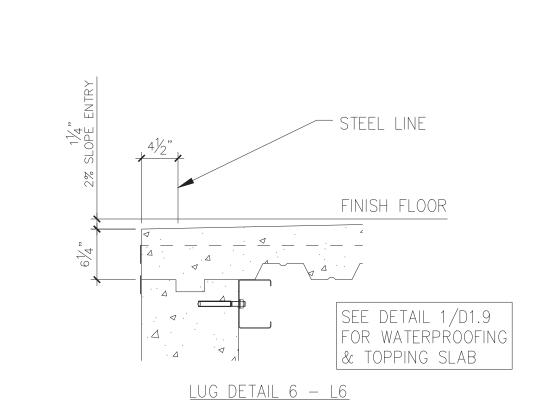
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REVISIONS:

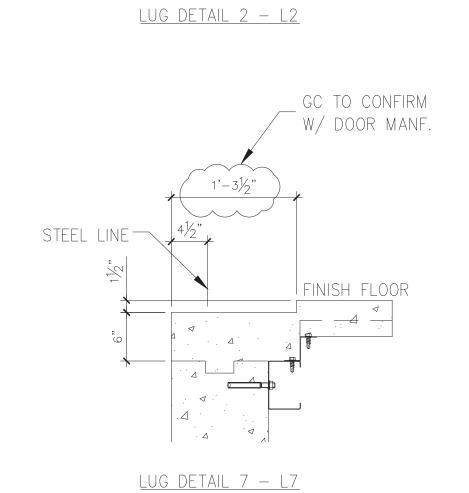
A.B & LUG DETAILS

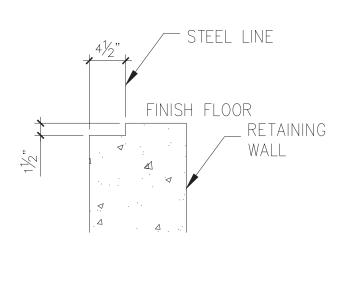
SHEET NO.

F2.5



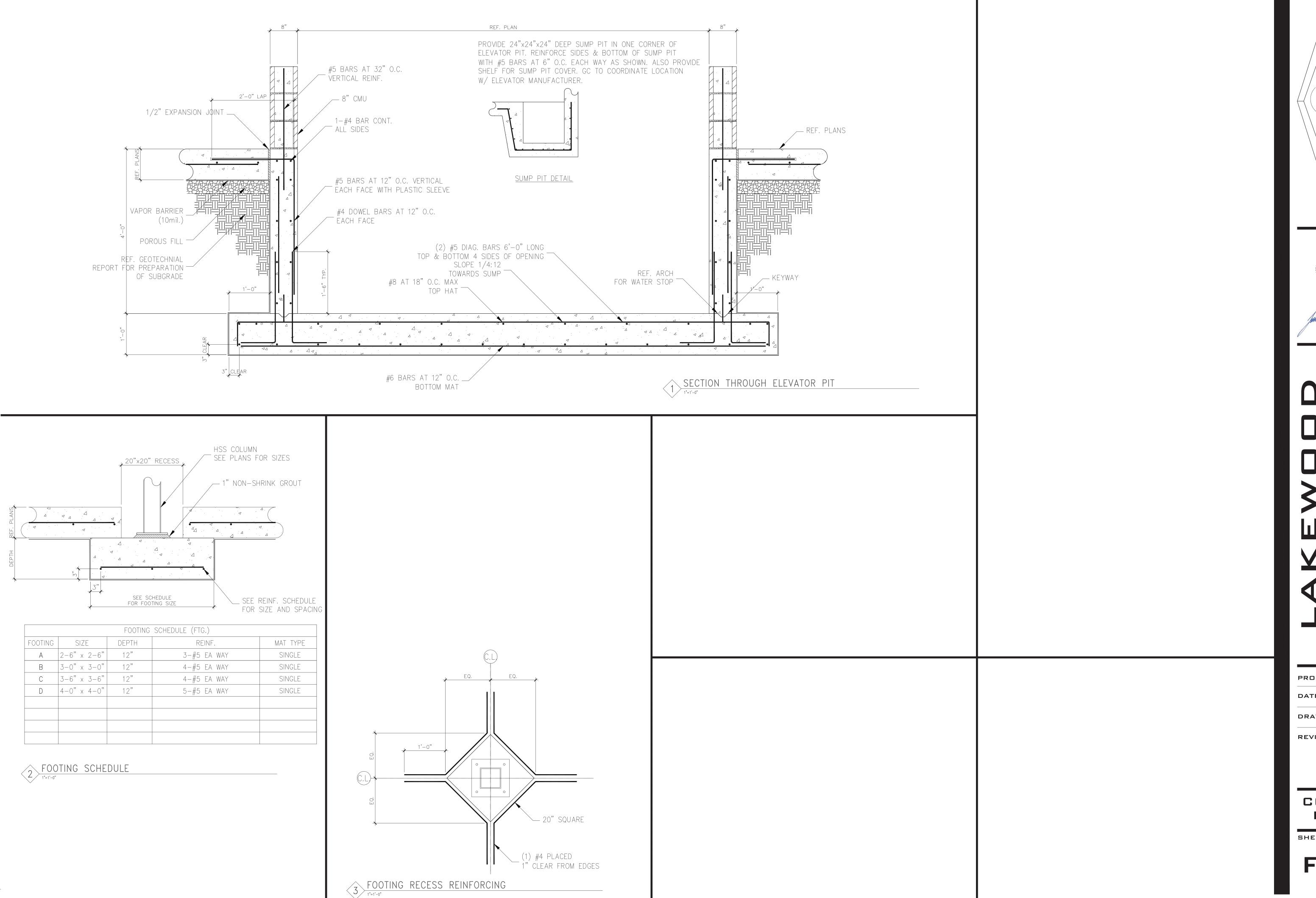
<u>LUG DETAIL 1 - L1</u>





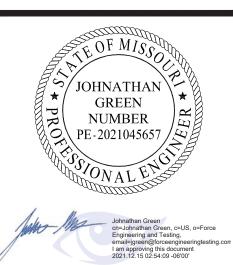
<u>LUG DETAIL 5 - L5</u>

<u>Lug detail 4 - L4</u>



Development Services Depart Lee's Summit, Wissouri 03/18/2022

Force Engineering & Testing Inc.
19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338



Johnathan Green, c=US, o=For Engineering and Testing, email-jgreen@forceengineeringtes I am approving this document 2021.12.15 02:54:09-06'00'

AKEWOOO 3HORAGE

PROJECT NO. 2035

DATE: 12.15.2021

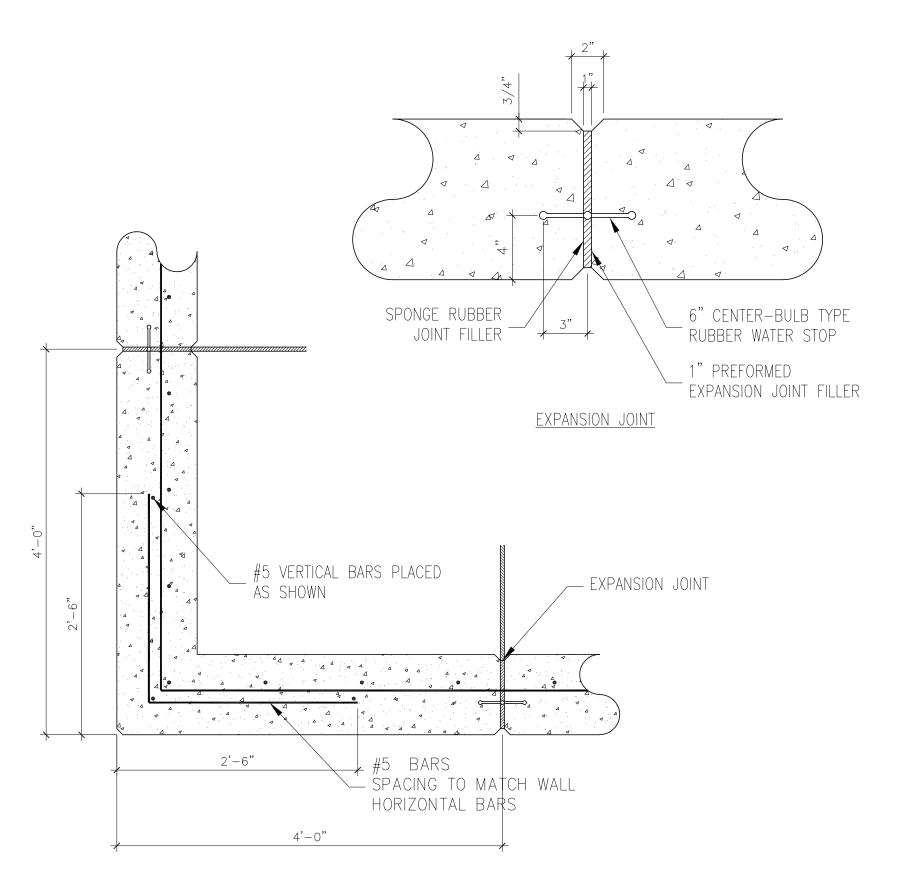
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REVISIONS:

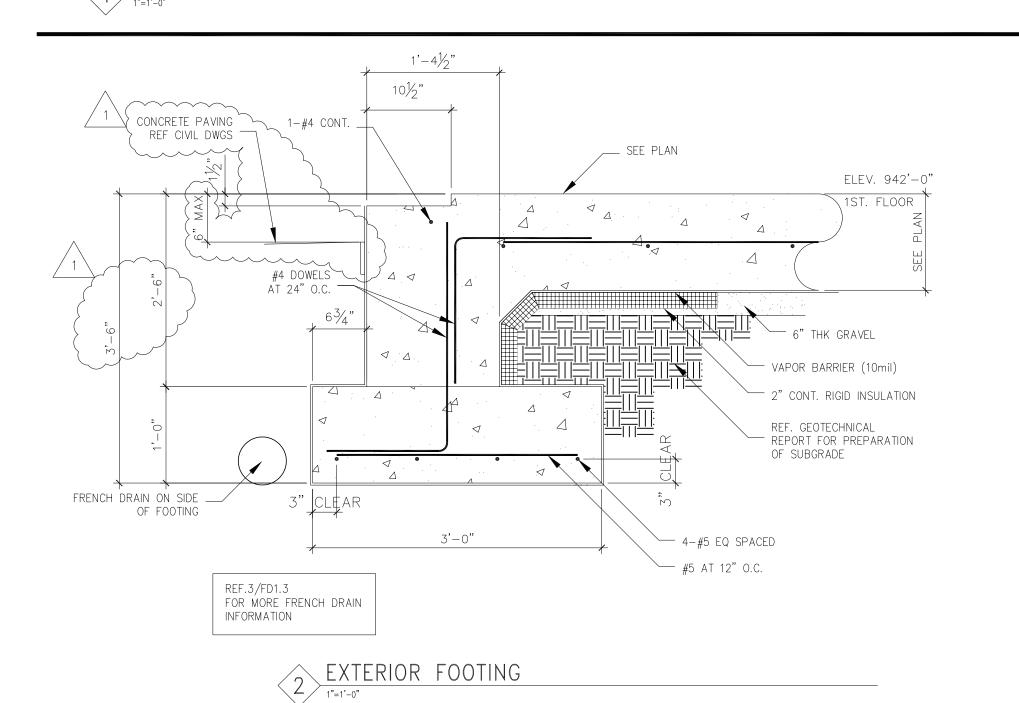
CONCRETE DETAILS

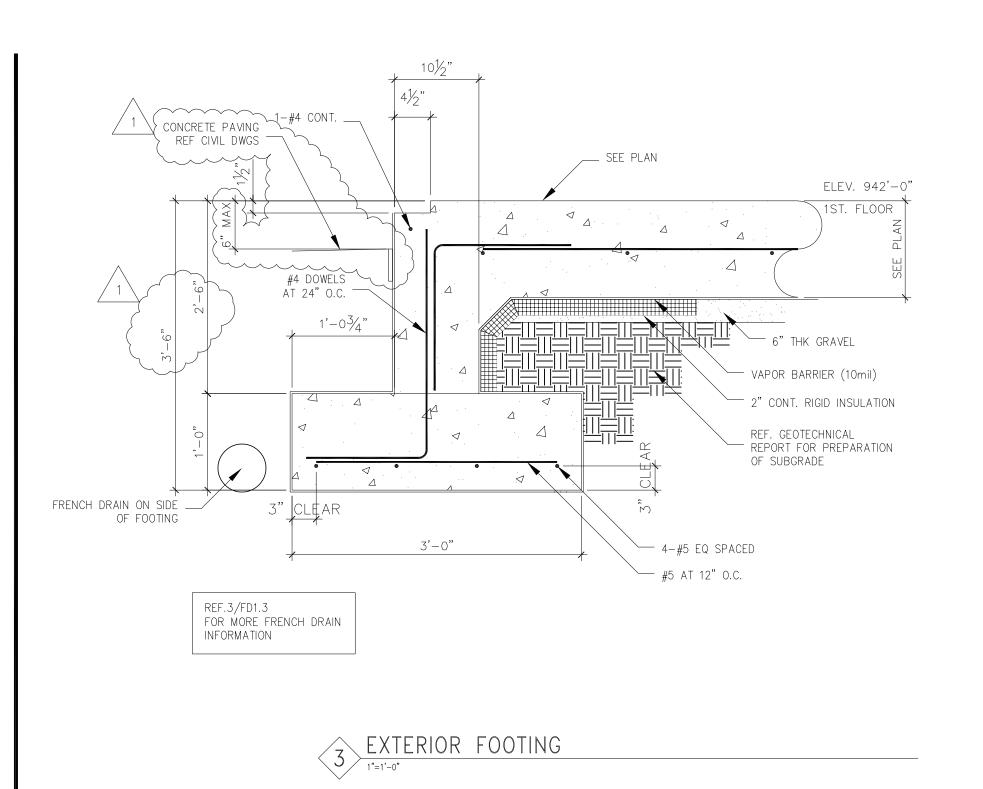
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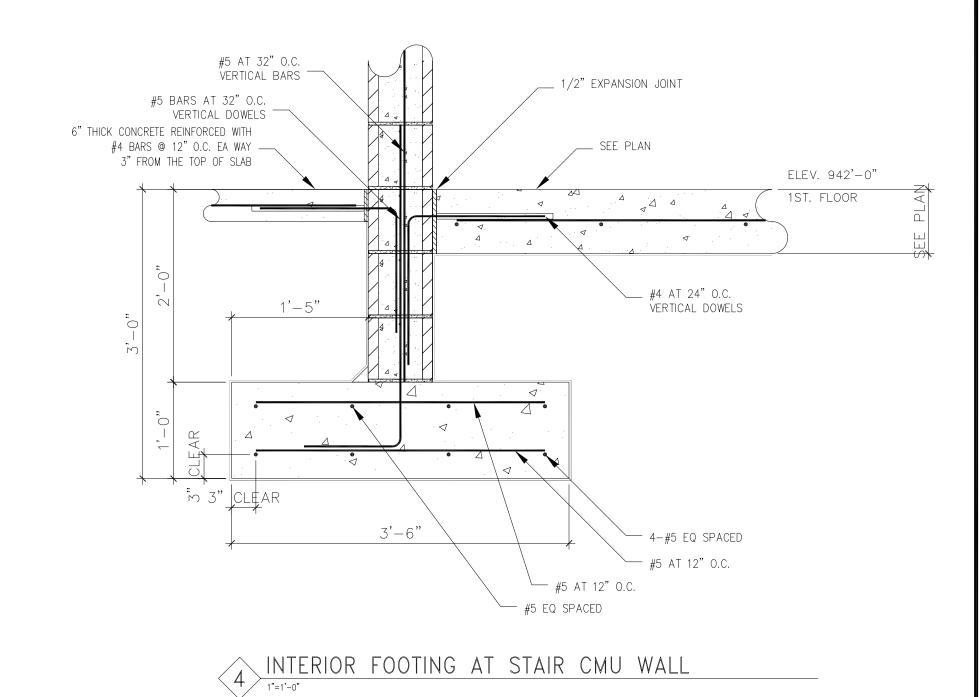
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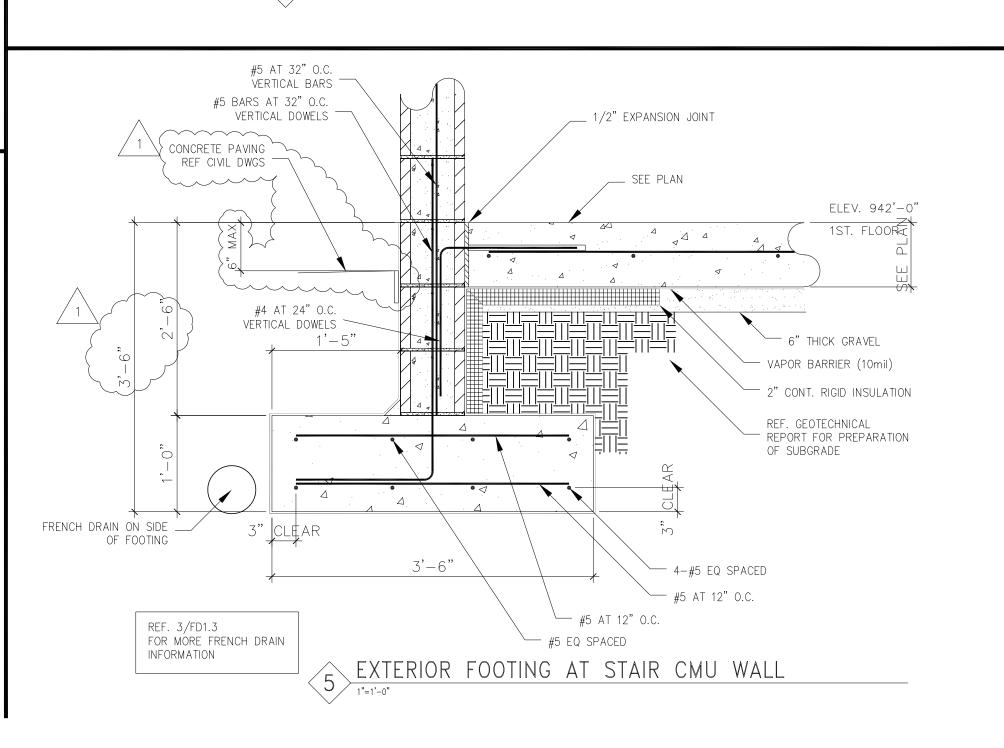


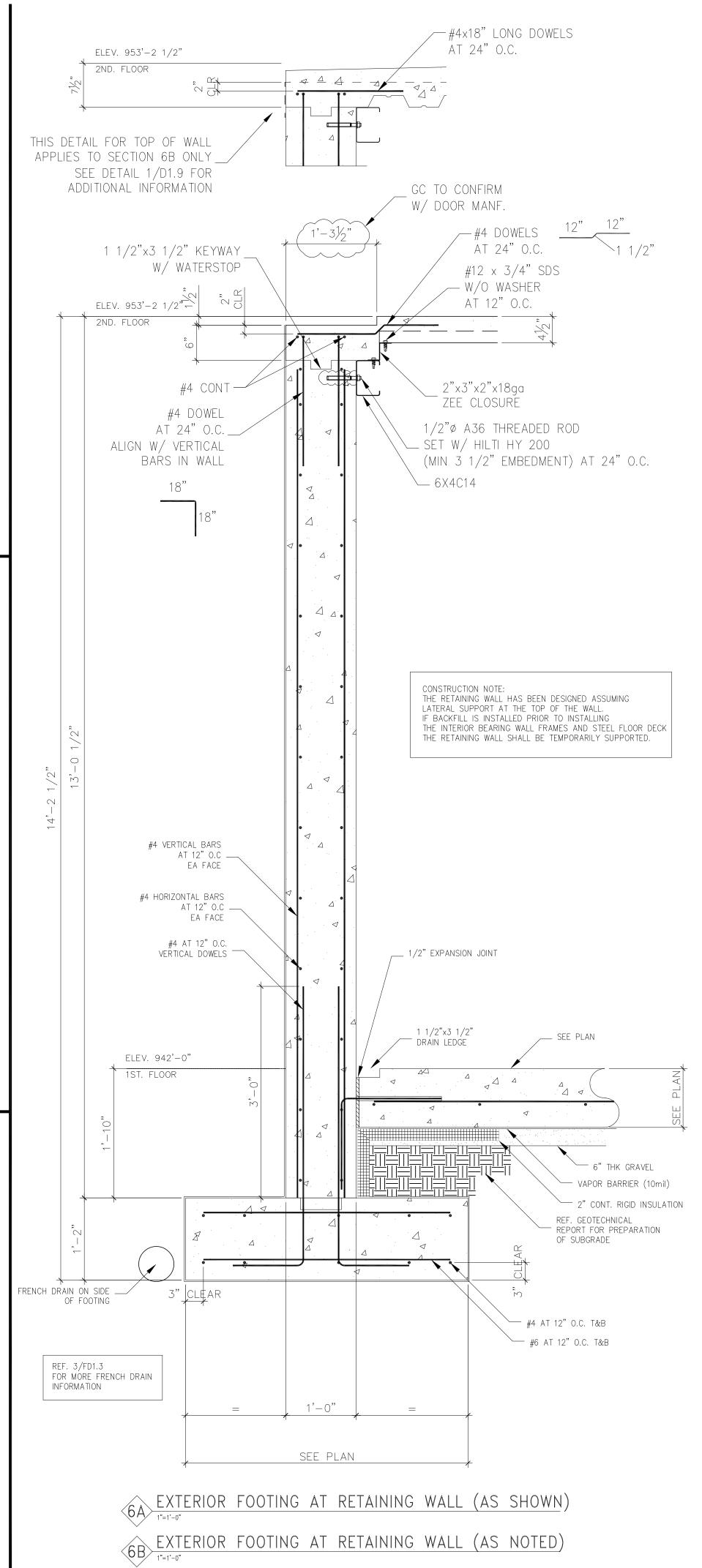
## 1 OUTSIDE CORNER CONCRETE WALL JOINT











CONSTRUCTION
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PROJECT NO. 2035 12.15.2021 DATE:

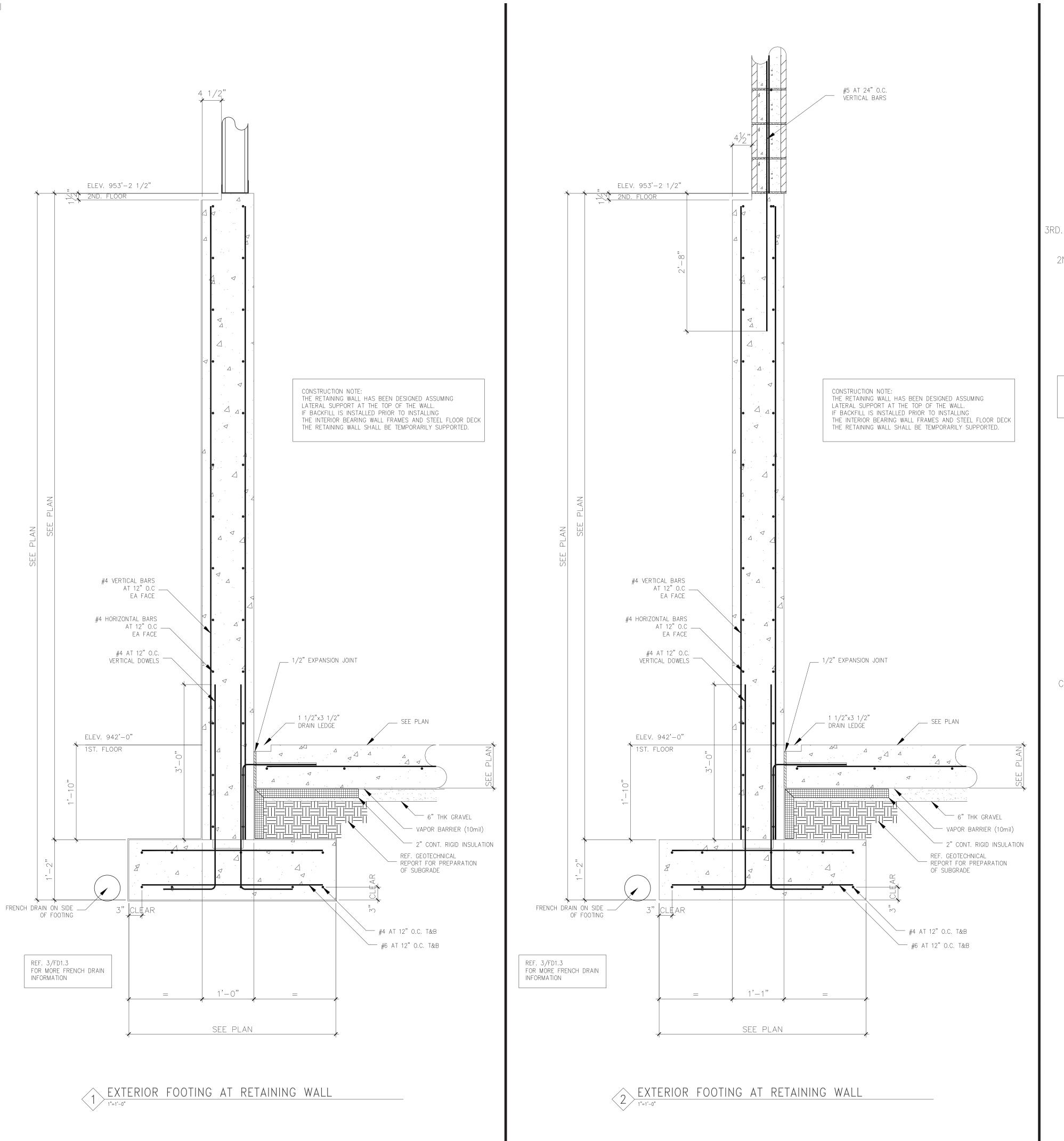
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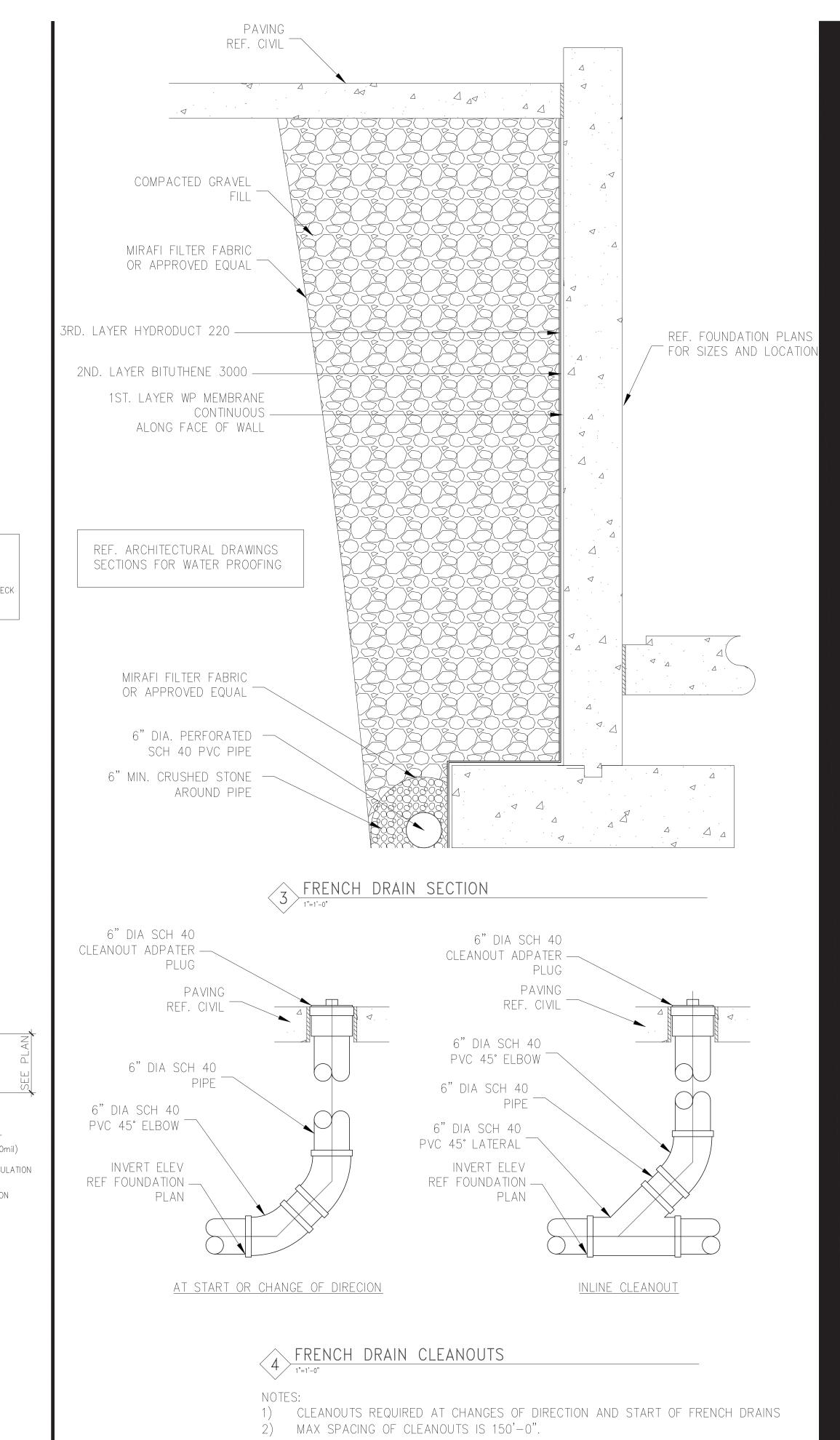
REVISIONS:

CONCRETE DETAILS

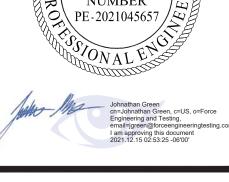
SHEET NO.

FD1.2





¬∕ JOHNATHAN \ GREEN NUMBER



PROJECT NO. 2035

12.15.2021 DATE:

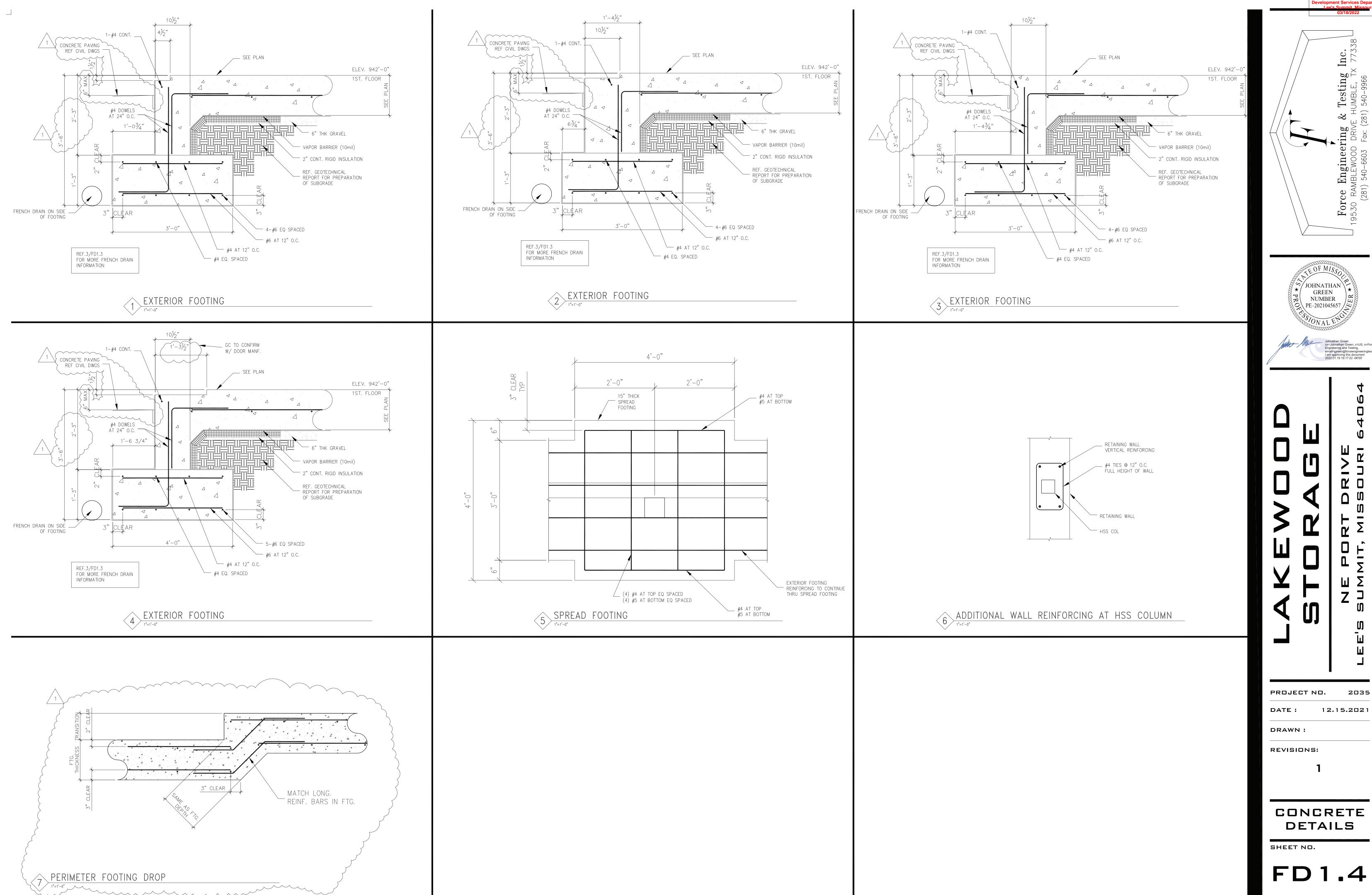
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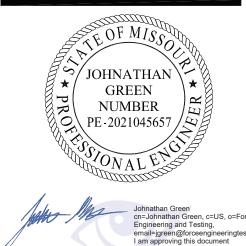
REVISIONS:

CONCRETE DETAILS

SHEET NO.

FD1.3





MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

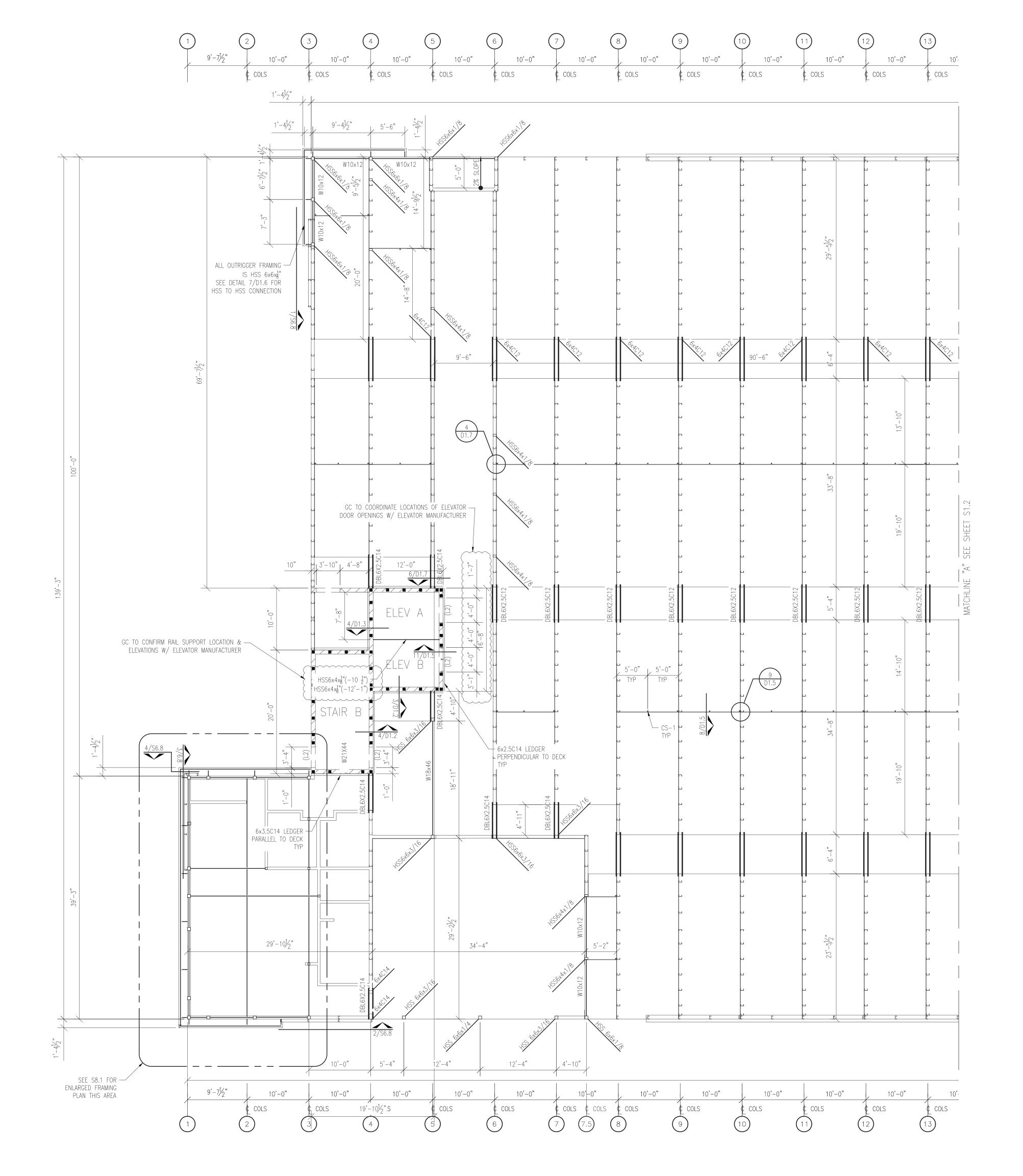
-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14 -2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT) CONTINUOUS DO NOT BREAK -2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

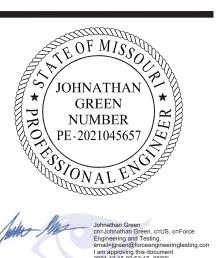
-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.

1ST FLOOR FRAMING PLAN TOS ELEV = 952'-10" UNLESS NOTED



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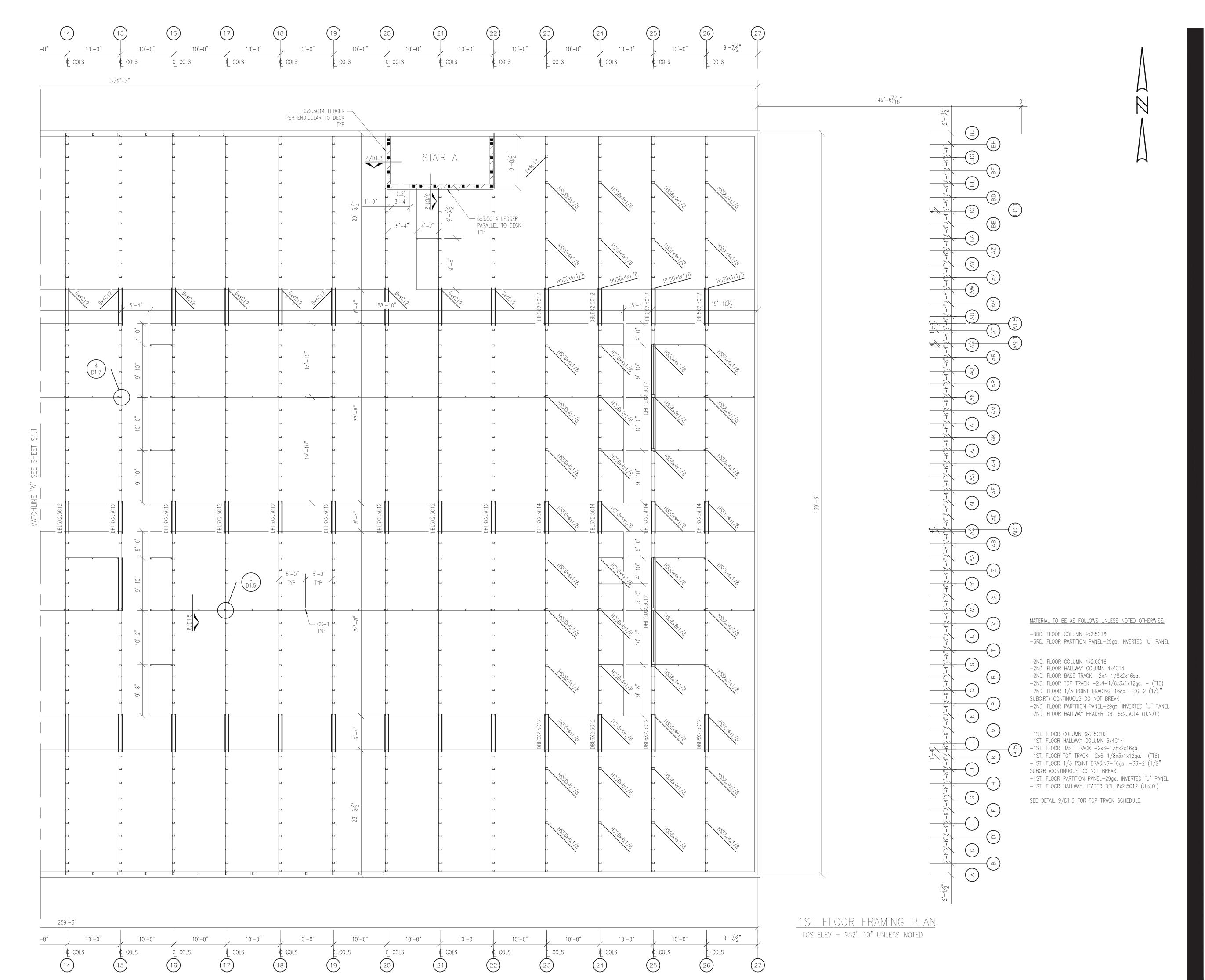
PROJECT NO.

DATE: 12.15.2021

DRAWN:

REVISIONS:

1ST FLOOR FRAMING





PROJECT NO. 2035

12.15.2021

DRAWN:

**REVISIONS:** 

1ST FLOOR FRAMING

SEE DETAIL 5/S6.8
FOR VERTICAL ACM
FRAMING ALL OUT RIGGER FRAMING —

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-3RD. FLOOR COLUMN 4x2.5C16

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

SUBGIRT) CONTINUOUS DO NOT BREAK

-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14

SUBGIRT)CONTINUOUS DO NOT BREAK

-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga.

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.

-1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

-1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga.

IS HSS 4x4x8" SEE DETAIL 7/D1.6 FOR HSS TO HSS CONNECTION SEE DETAIL 5/S6.8 — FOR VERTICAL ACM FRAMING 9'-8" - GC TO COORDINATE LOCATIONS OF ELEVATOR DOOR OPENINGS W/ ELEVATOR MANUFACTURER GC TO CONFIRM RAIL SUPPORT LOCATION & — ELEVATIONS W/ ELEVATOR MANUFACTURER - 6x2.5C14 LEDGER PERPENDICULAR TO DECK 10'-0" — 6x3.5C14 LEDGER , PARALLEL TO DECK ALL OUTRIGGER FRAMING — IS HSS 4x4x₈"

SEE DETAIL 7/D1.6 FOR
HSS TO HSS CONNECTION 2ND FLOOR FRAMING PLAN 10'-0" 10'-0" 10'-0" 10'-0" 10'-0" 10'-0" 10'-0" TOS ELEV = 963'-6" UNLESS NOTED ¢ COLS ¢ COLS ¢ COLS ¢ cols ¢ cols ¢ cols COLS COLS ¢ cols ¢ COLS

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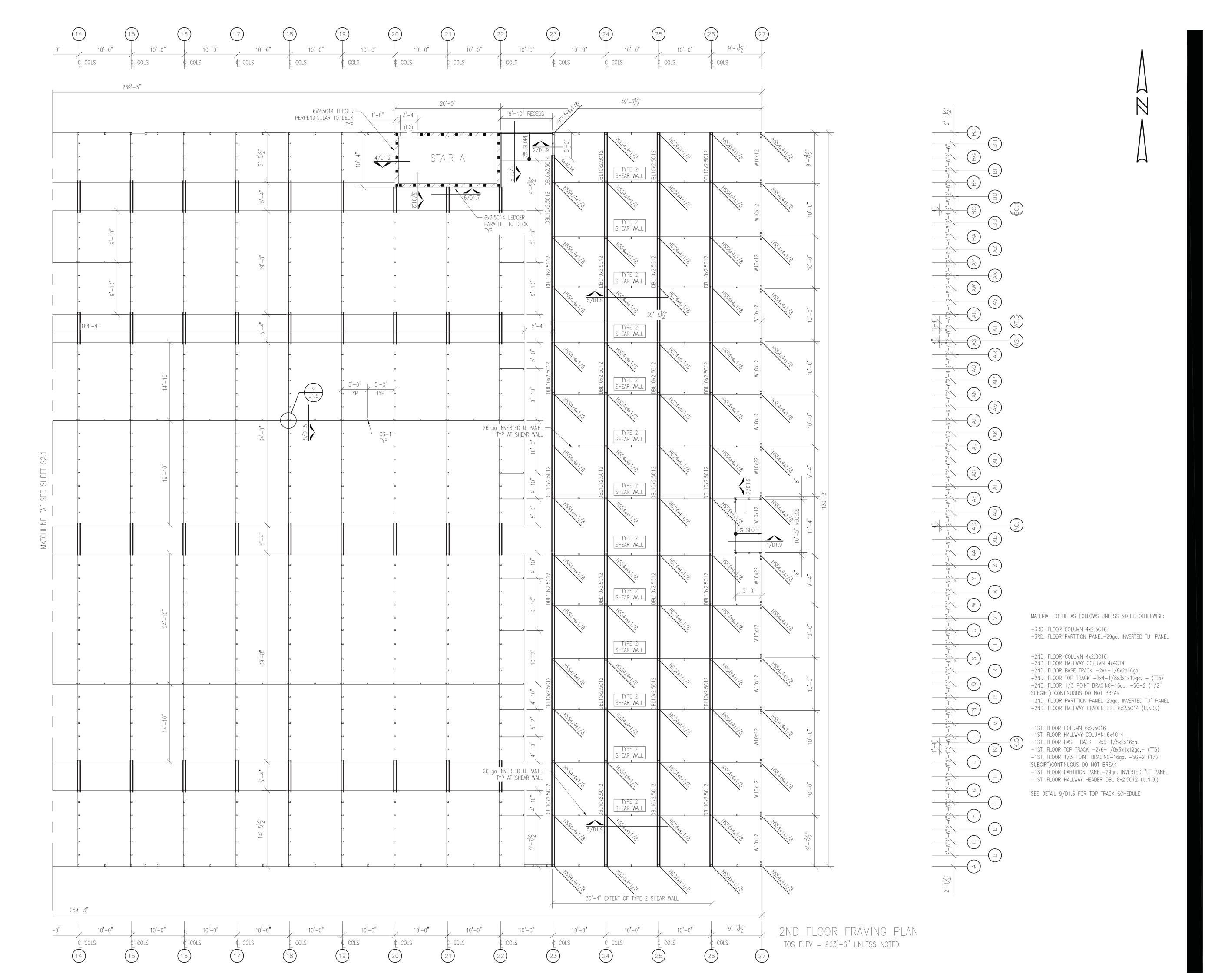
2035 PROJECT NO. 12.15.2021

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DATE:

REVISIONS:

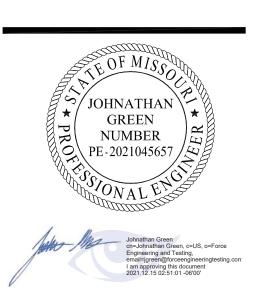
2ND FLOOR FRAMING



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Lee's Summit Missouri

Force Engineering & Testing Inc.
9530 RAMBLEWOOD DRIVE HUMBLE, TX 7733



K E W O O C T O R A G E

PROJECT NO. 2035

ATE: 12.15.2021

DRAWN:

REVISIONS:

2ND FLOOR FRAMING

SHEET NO.

/ 26 ga INVERTED U PANEL TYP AT SHEAR WALL TYPE 1 SHEAR WALL TYPE 1 SHEAR WALL 19'-9½" GC TO COORDINATE LOCATIONS OF ELEVATOR
DOOR OPENINGS W/ ELEVATOR MANUFACTURER 12'-0" STAIR B SHEAR WALL SHEAR WALL 26 ga INVERTED U PANEL TYP AT SHEAR WALL

 $15'-0\frac{1}{2}$ "

10'-0"

3RD FLOOR FRAMING PLAN

1) SEE DETAIL 4/D1.9 FOR TYPE 1 SHEAR WALL.

14'-9"

¢ COLS

10'-0"

10'-0"

¢ COLS

10'-0"

¢ COLS

10'-0"

10'-0"

¢ COLS

10'-0"

COLS

10'-0"

COLS

10'-0"

¢ COLS

¢ COLS

COLS

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-3RD. FLOOR COLUMN 4x2.5C16

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

SUBGIRT) CONTINUOUS DO NOT BREAK

-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14

SUBGIRT)CONTINUOUS DO NOT BREAK

-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga.

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.

-1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

-1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga.

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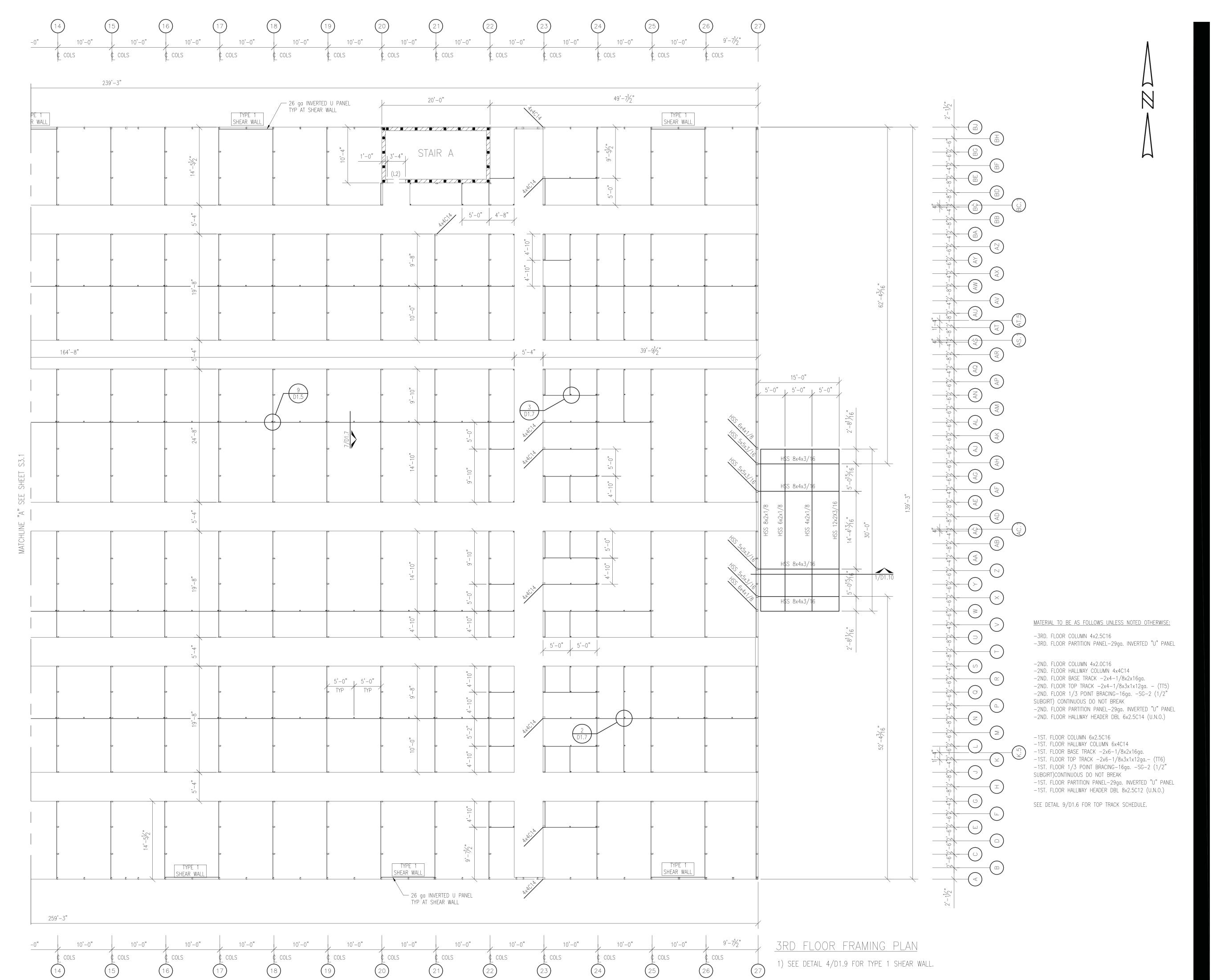
12.15.2021

DRAWN:

**REVISIONS:** 

3RD FLOOR FRAMING

SHEET NO.





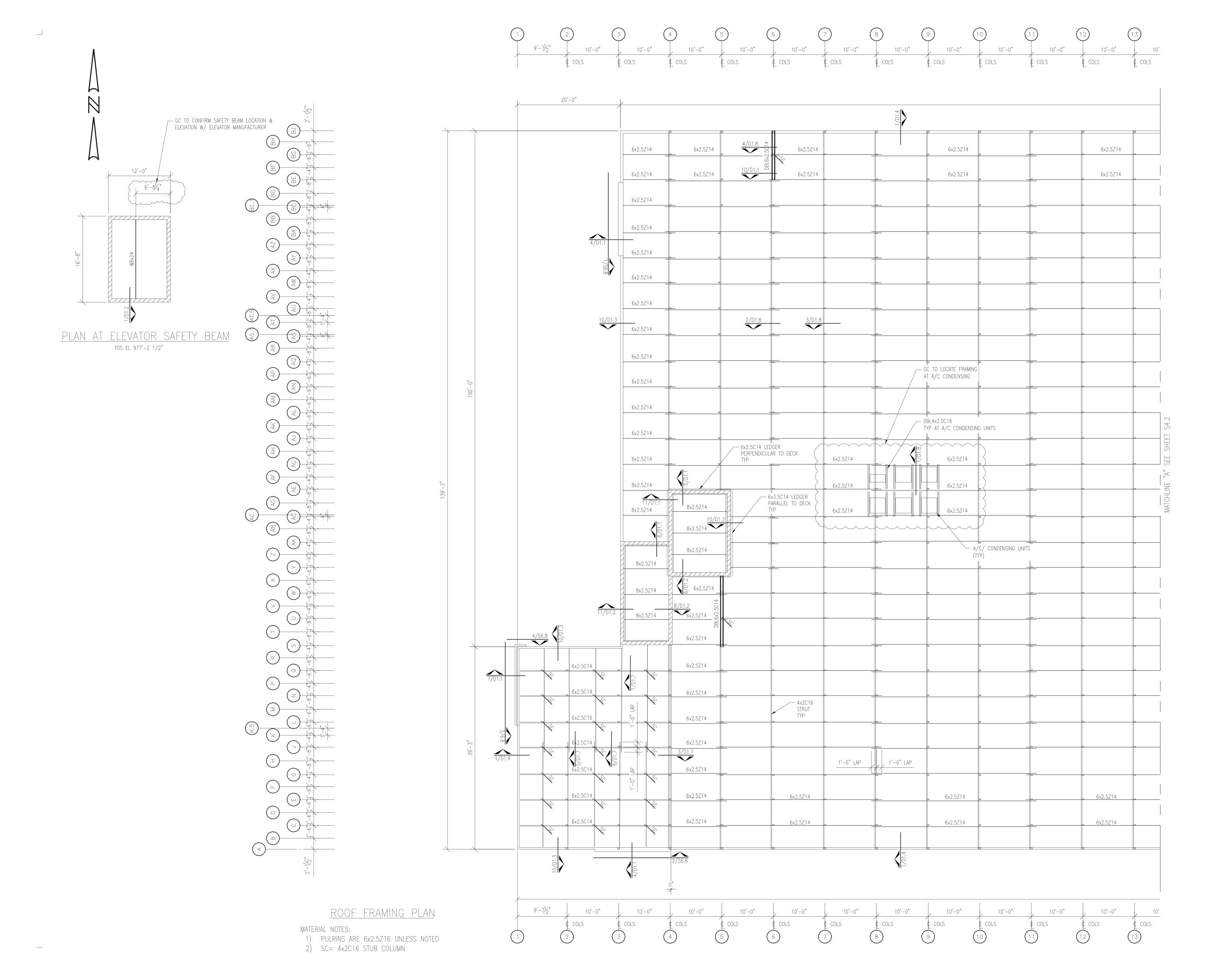
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12.15.2021

DRAWN:

REVISIONS:

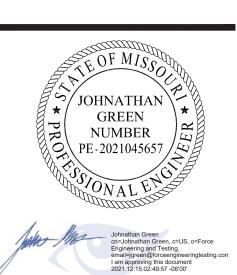
3RD FLOOR FRAMING



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Force Engineering & Testing Inc.
19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338
(281) 540-6603 Fax: (281) 540-9966



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PROJECT NO. 2035

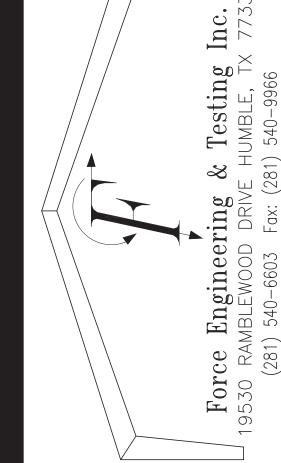
DATE: 12.15.2021

DRAWN:

REVISIONS:

ROOF FRAMING

SHEET NO.



JOHNATHAN * GREEN NUMBER

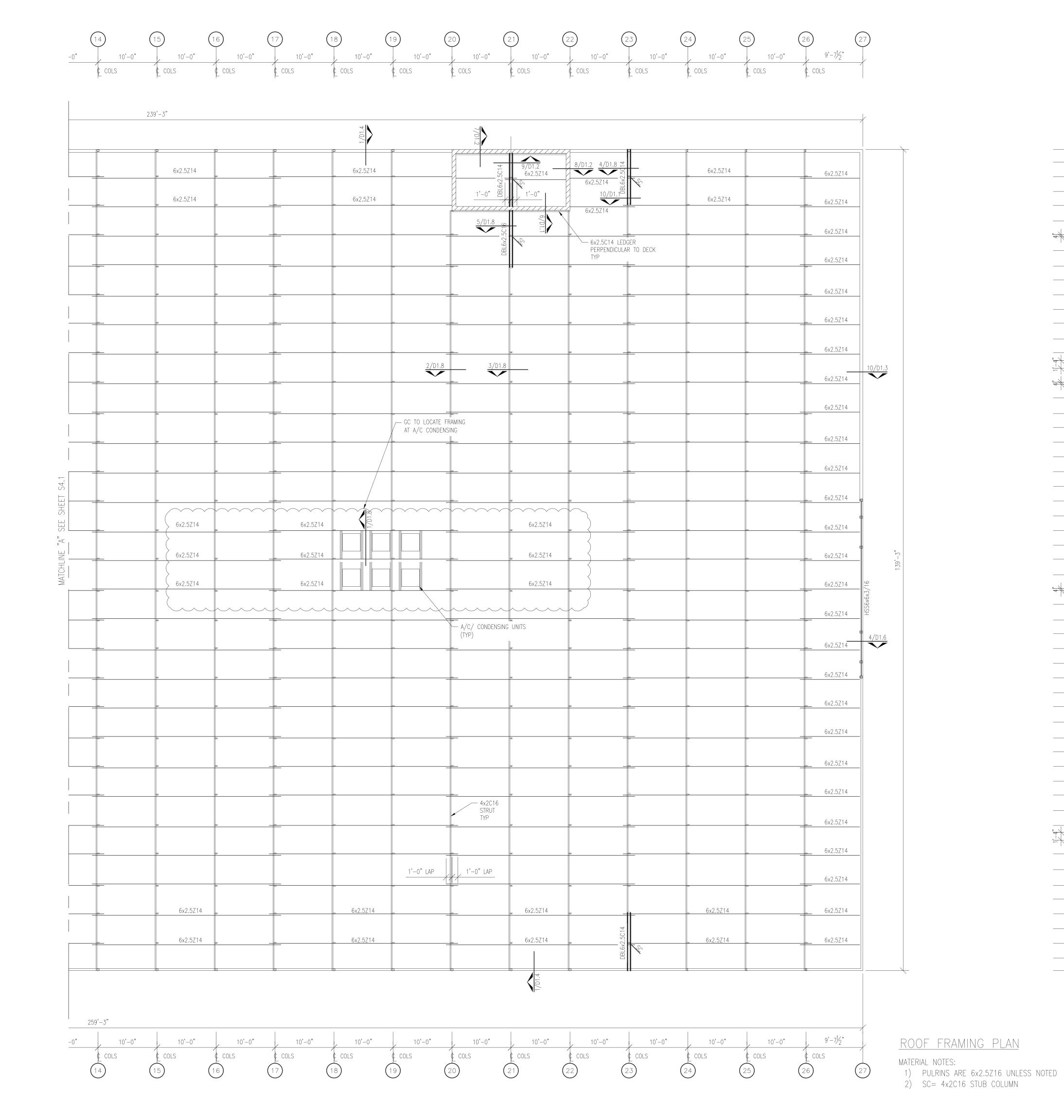
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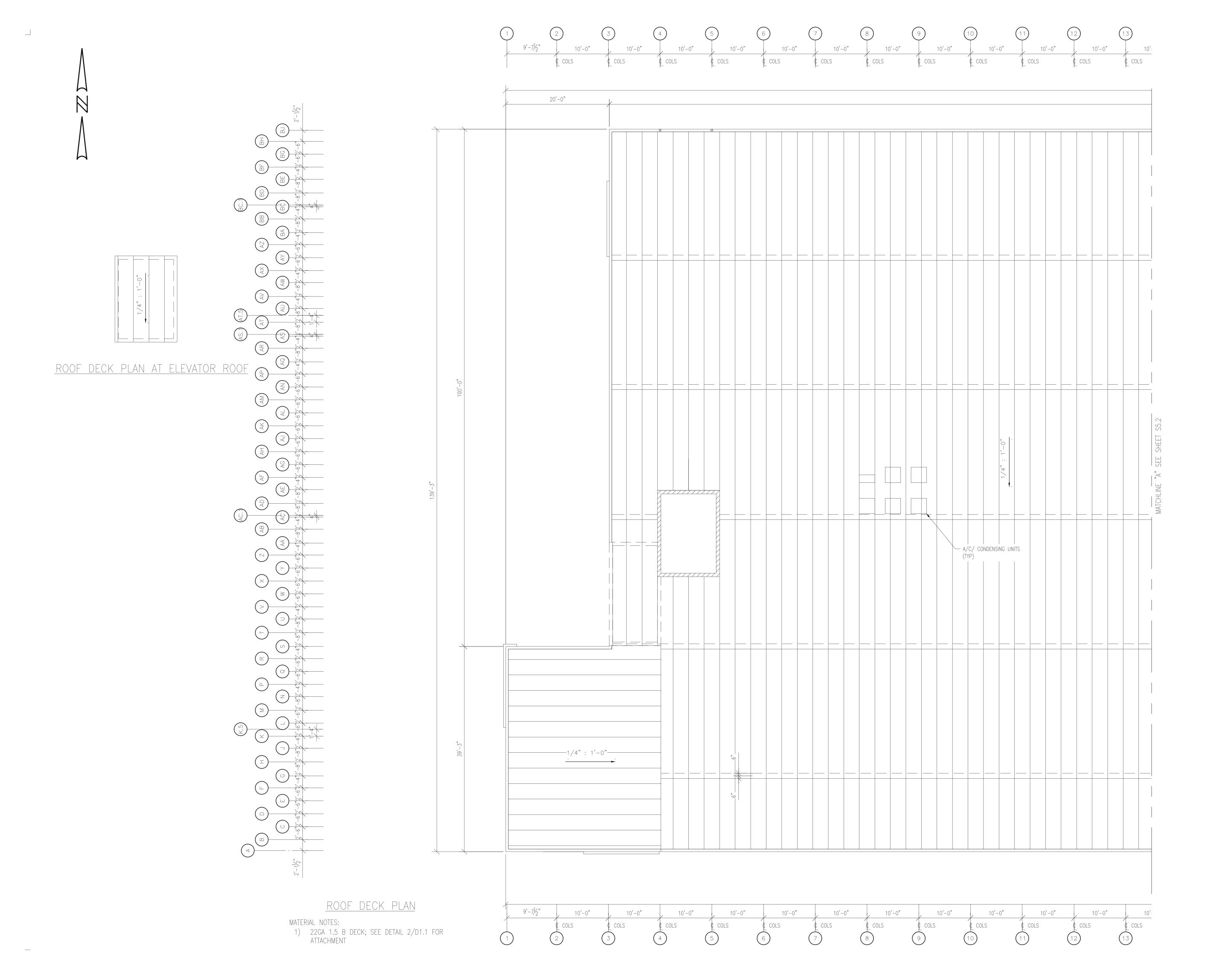
12.15.2021 DRAWN:

REVISIONS:

ROOF FRAMING

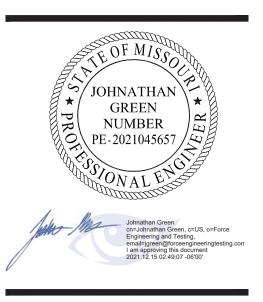
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(281) 540-6603 Fax: (281) 540-9966



# AKEWOOD STORAGE

PROJECT NO. 2035

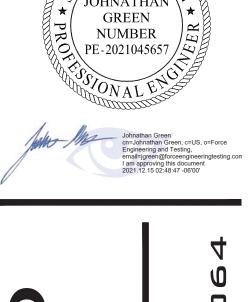
DATE: 12.15.2021

DRAWN:

REVISIONS:

ROOF DECK

SHEET NO.



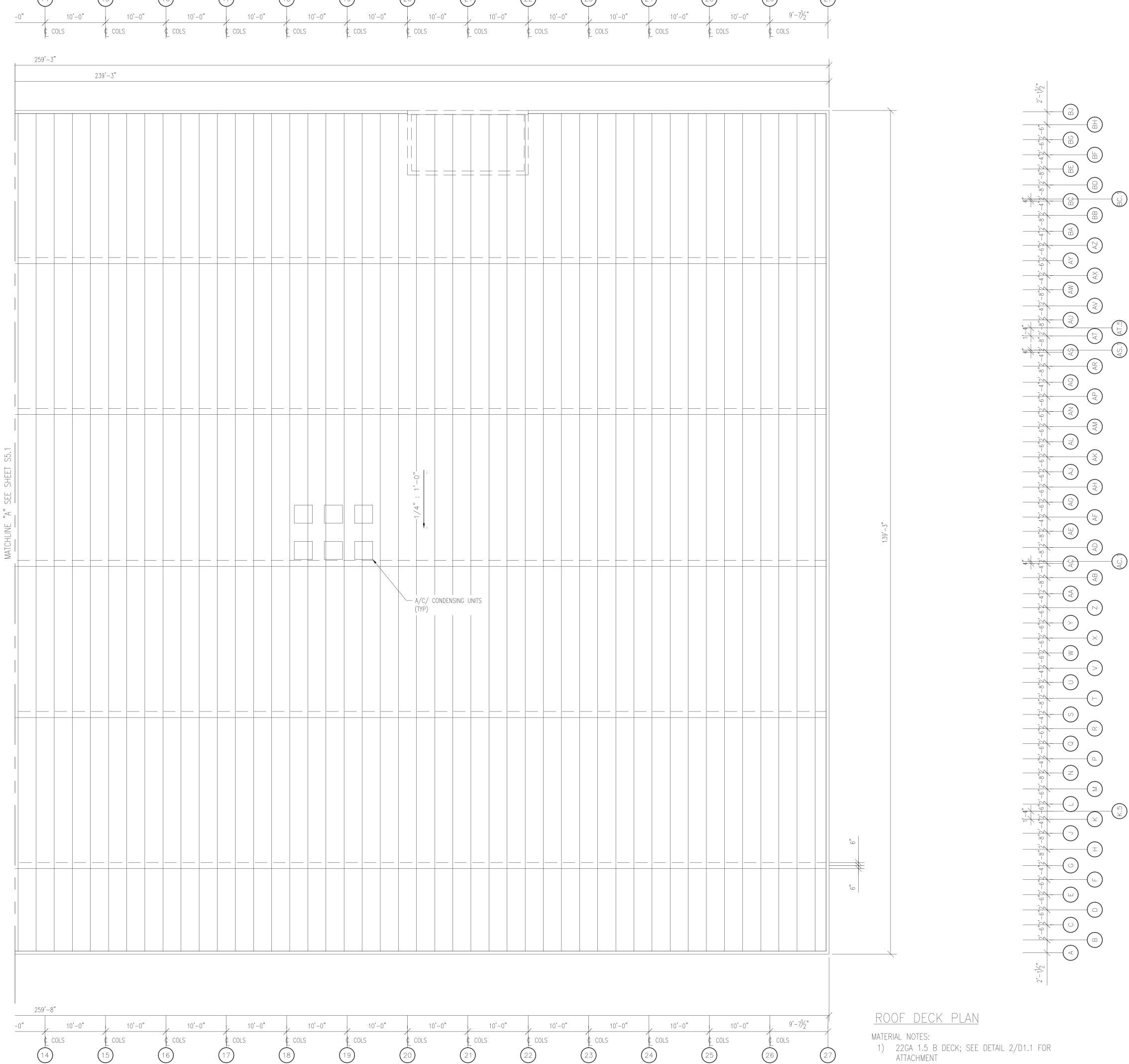
PROJECT NO. 2035

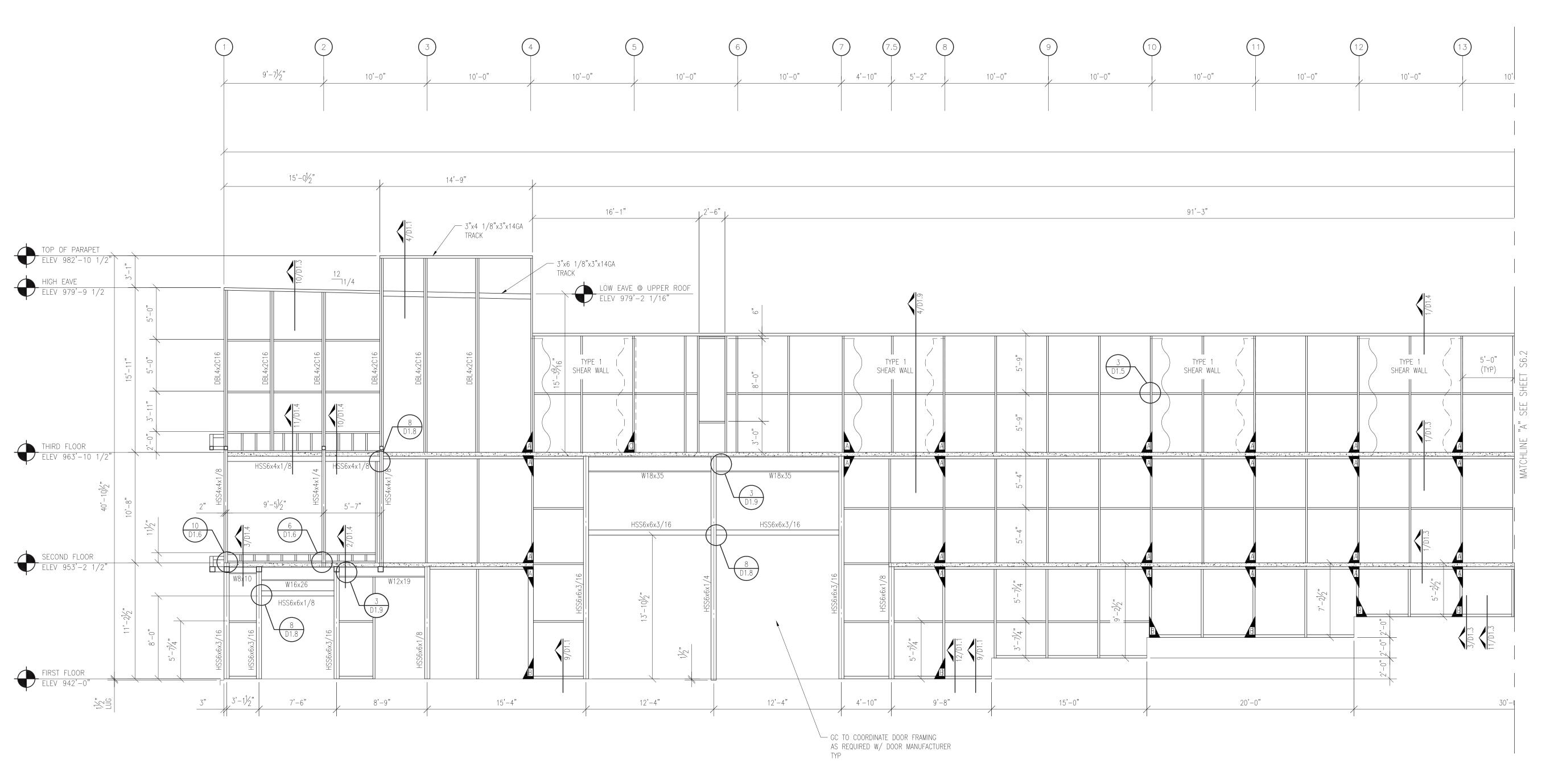
12.15.2021 DRAWN:

REVISIONS:

ROOF DECK

SHEET NO.



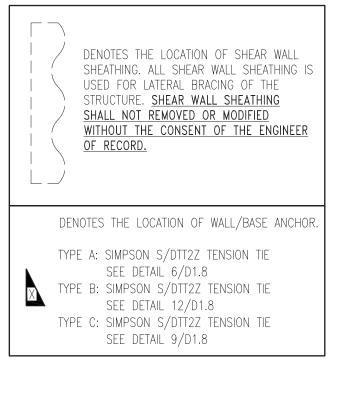


FRAMING ELEVATION @ COLUMN LINE A (LOOKING NORTH)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

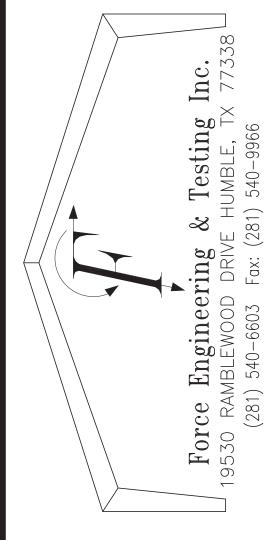
- -3RD. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX -3RD. FLOOR GIRT 4x2.0C16 @ 5'-9" O.C. MAX
- -3RD. FLOOR GIRL 4X2.0CT6 @ 5-9 0.C. MAX -3RD. FLOOR WINDOW JAMB 4X2.0C16
- -3RD. FLOOR WINDOW HEADER/SILL 4x2.0C16 -3RD. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1
- -2ND. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX -2ND. FLOOR GIRT 4x2.0C16 @ 5'-4" O.C. MAX
- -2ND. FLOOR GIRT 4X2.0CT6 @ 5-4 O.C. N -2ND. FLOOR WINDOW JAMB 4X2.0C16
- -2ND. FLOOR WINDOW HEADER/SILL 4x2.0C16
- -2ND. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1
  -1ST. FLOOR COLUMN 6x2.0C16 @ 5'-0" O.C. MAX
- -1ST. FLOOR GIRT 4x2.0C16 ⊚ 5'-8" O.C. MAX -1ST. FLOOR TOP TRACK 3x6 1/8x3x14ga TT2 -1ST. FLOOR BASE ANGLE 3x3x14ga

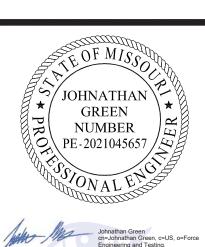
SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



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PROJECT NO. 2035

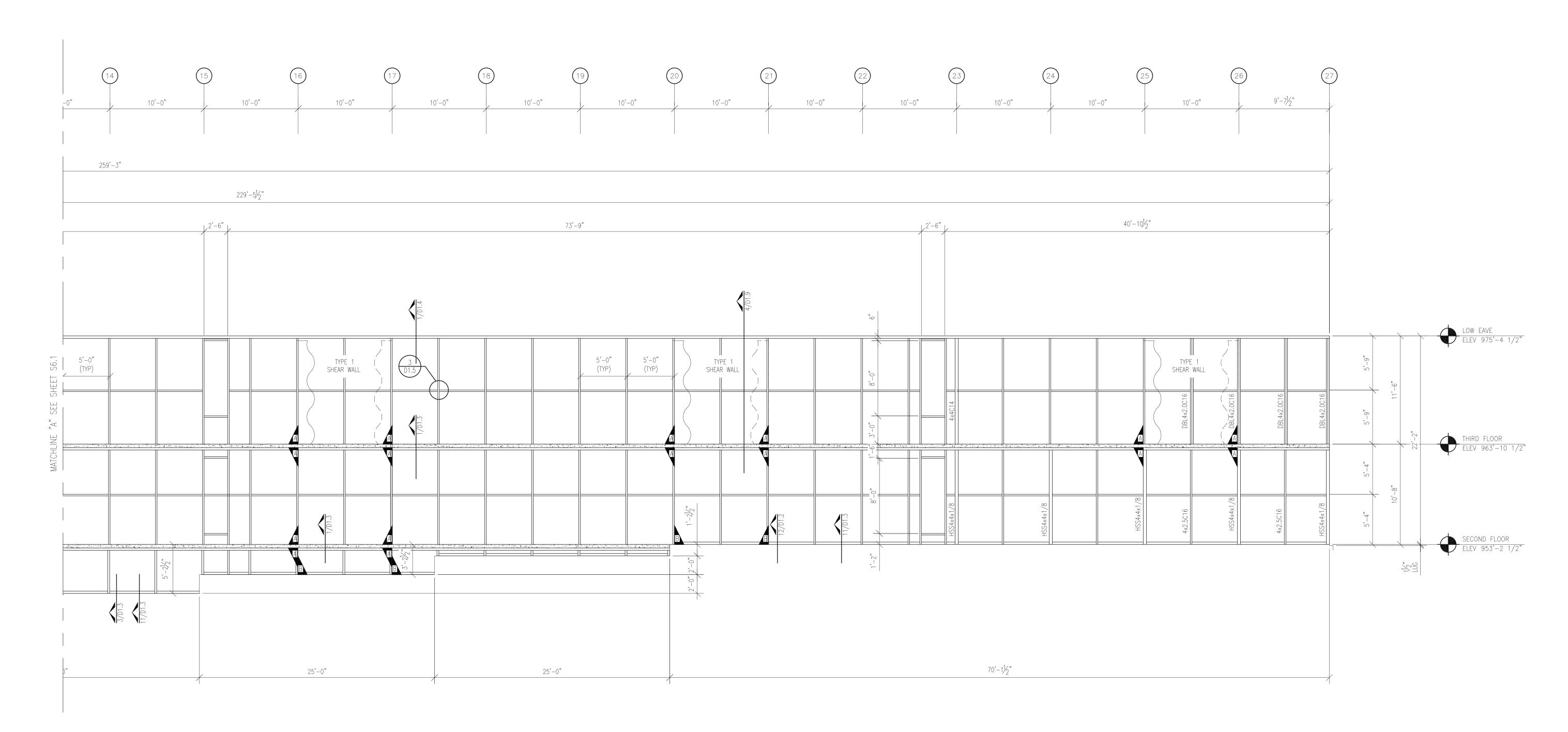
DATE: 12.15.2021

DRAWN:

REVISIONS:

FRAMING ELEVATIONS

SHEET NO.



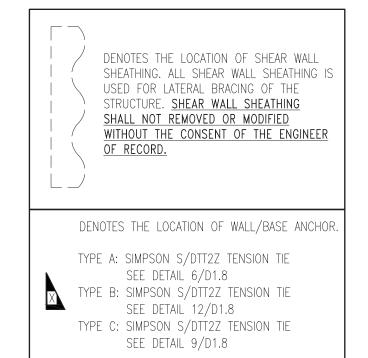
FRAMING ELEVATION @ COLUMN LINE A (LOOKING NORTH)

#### MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

- -3RD. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX -3RD. FLOOR GIRT 4x2.0C16 @ 5'-9" O.C. MAX
- -3RD. FLOOR WINDOW JAMB 4x2.0C16 -3RD. FLOOR WINDOW HEADER/SILL 4x2.0C16

-3RD. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1

- -2ND. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX -2ND. FLOOR GIRT 4x2.0C16 @ 5'-4" O.C. MAX
- -2ND. FLOOR GIRT 4X2.0C16 @ 5-4 O.C. MAX -2ND. FLOOR WINDOW JAMB 4X2.0C16 -2ND. FLOOR WINDOW HEADER/SILL 4X2.0C16
- -2ND. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1
  -1ST. FLOOR COLUMN 6x2.0C16 @ 5'-0" 0.C. MAX
- -1ST. FLOOR GIRT 4x2.0C16 @ 5'-8" O.C. MAX -1ST. FLOOR TOP TRACK 3x6 1/8x3x14ga TT2 -1ST. FLOOR BASE ANGLE 3x3x14ga
- SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



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19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338
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## AKEWOOD 3HORAGE

PROJECT NO. 2035

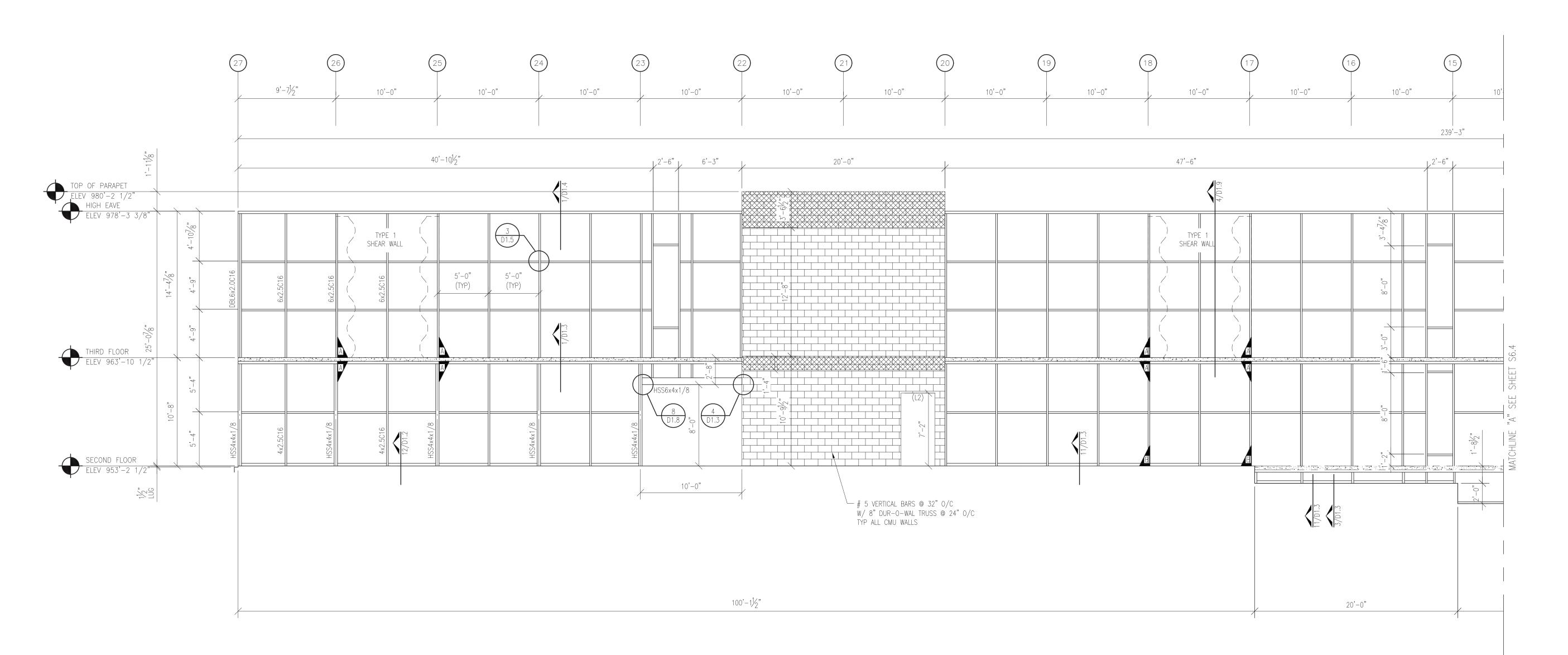
DATE: 12.15.2021

DRAWN:

REVISIONS:

FRAMING ELEVATIONS

SHEET NO.



FRAMING ELEVATION @ COLUMN LINE BJ (LOOKING SOUTH)

DENOTES THE LOCATION OF BOND BEAM
(BOND BEAMS ARE CONTINUOUS AROUND
STAIR UNLESS NOTED)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

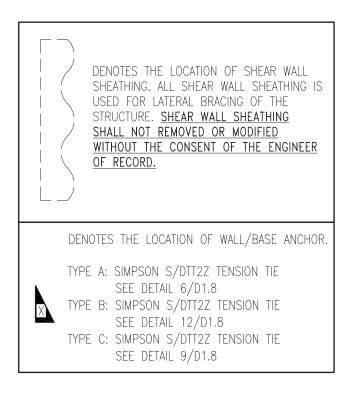
-3RD. FLOOR COLUMN 6x2.0C16 @ 5'-0" O.C. MAX -3RD. FLOOR GIRT 4x2.0C16 @ 4'-11" O.C. MAX -3RD. FLOOR WINDOW JAMB 6x2.0C16 -3RD. FLOOR WINDOW HEADER/SILL 6x2.0C16 -3RD. FLOOR TOP TRACK 3x6 1/8x3x1x14ga TT2

-2ND. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX -2ND. FLOOR GIRT 4x2.0C16 @ 5'-4" O.C. MAX -2ND. FLOOR WINDOW JAMB 4x2.0C16

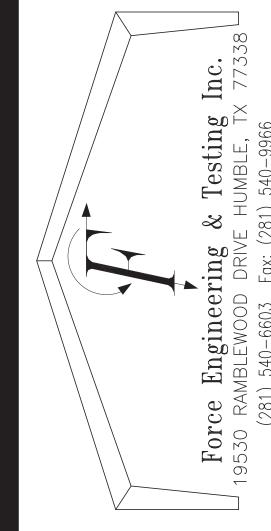
-2ND. FLOOR WINDOW HEADER/SILL 4x2.0C16 -2ND. FLOOR TOP TRACK 3x4 1/8x4x14ga TT1

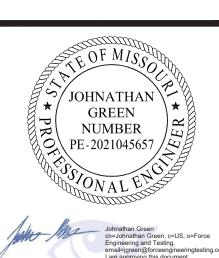
-1ST. FLOOR COLUMN 6x2.0C16 @ 5'-0" O.C. MAX -1ST. FLOOR GIRT 4x2.0C16 @ 5'-8" O.C. MAX -1ST. FLOOR TOP TRACK 3x6 1/8x3x14ga TT2 -1ST. FLOOR BASE ANGLE 3x3x14ga

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



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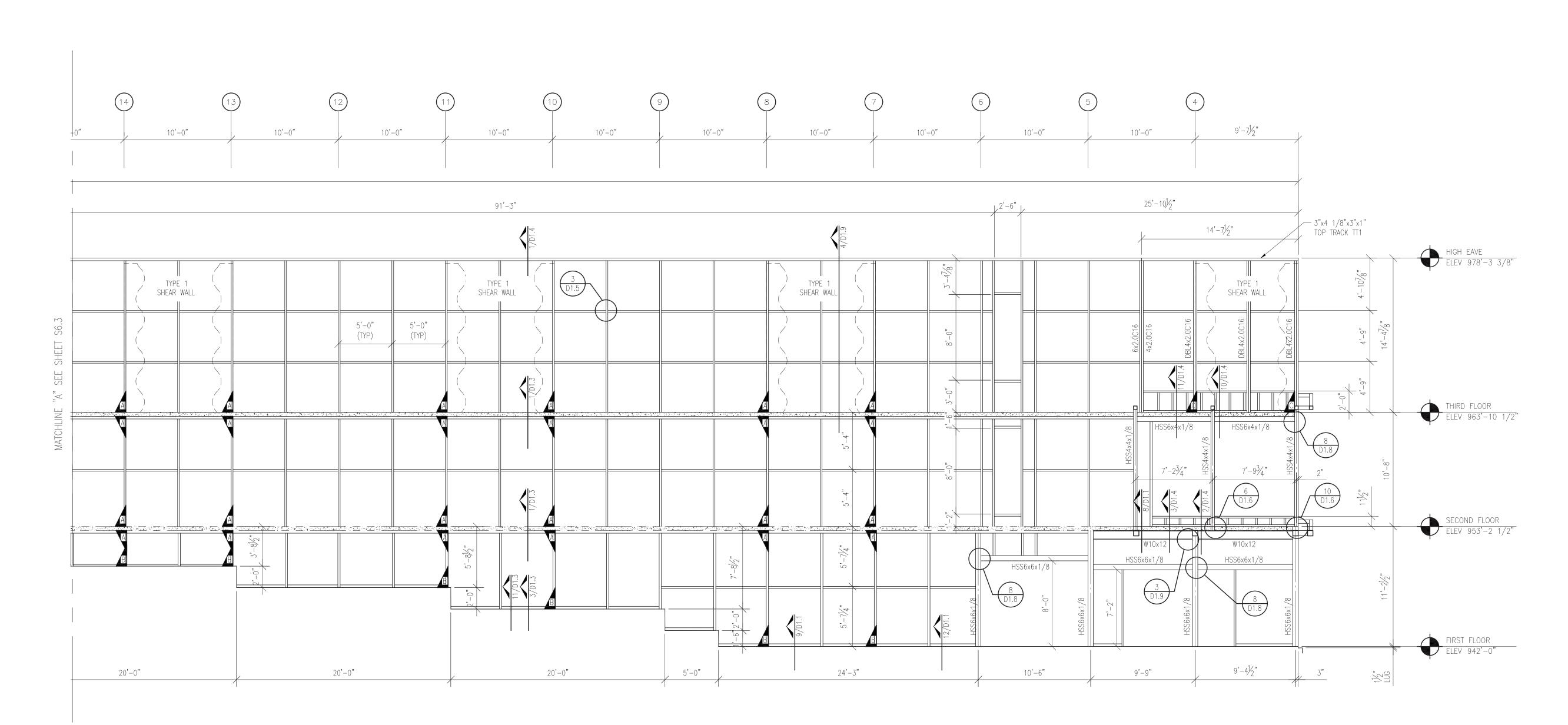
12.15.2021 DATE:

DRAWN:

REVISIONS:

FRAMING ELEVATIONS

SHEET NO.



FRAMING ELEVATION @ COLUMN LINE BJ (LOOKING SOUTH)

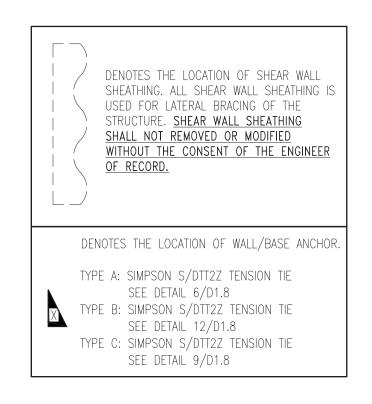
MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 6x2.0C16 @ 5'-0" O.C. MAX -3RD. FLOOR GIRT 4x2.0C16 @ 4'-11" O.C. MAX -3RD. FLOOR WINDOW JAMB 6x2.0C16 -3RD. FLOOR WINDOW HEADER/SILL 6x2.0C16 -3RD. FLOOR TOP TRACK 3x6 1/8x3x1x14ga TT2

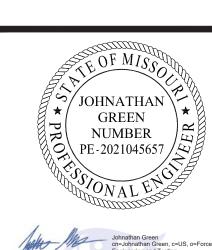
-2ND. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX -2ND. FLOOR GIRT 4x2.0C16 @ 5'-4" O.C. MAX -2ND. FLOOR WINDOW JAMB 4x2.0C16 -2ND. FLOOR WINDOW HEADER/SILL 4x2.0C16 -2ND. FLOOR TOP TRACK 3x4 1/8x4x14ga TT1

-1ST. FLOOR COLUMN 6x2.0C16 @ 5'-0" O.C. MAX −1ST. FLOOR GIRT 4x2.0C16 @ 5'-8" O.C. MAX -1ST. FLOOR TOP TRACK 3x6 1/8x3x14ga TT2 -1ST. FLOOR BASE ANGLE 3x3x14ga

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



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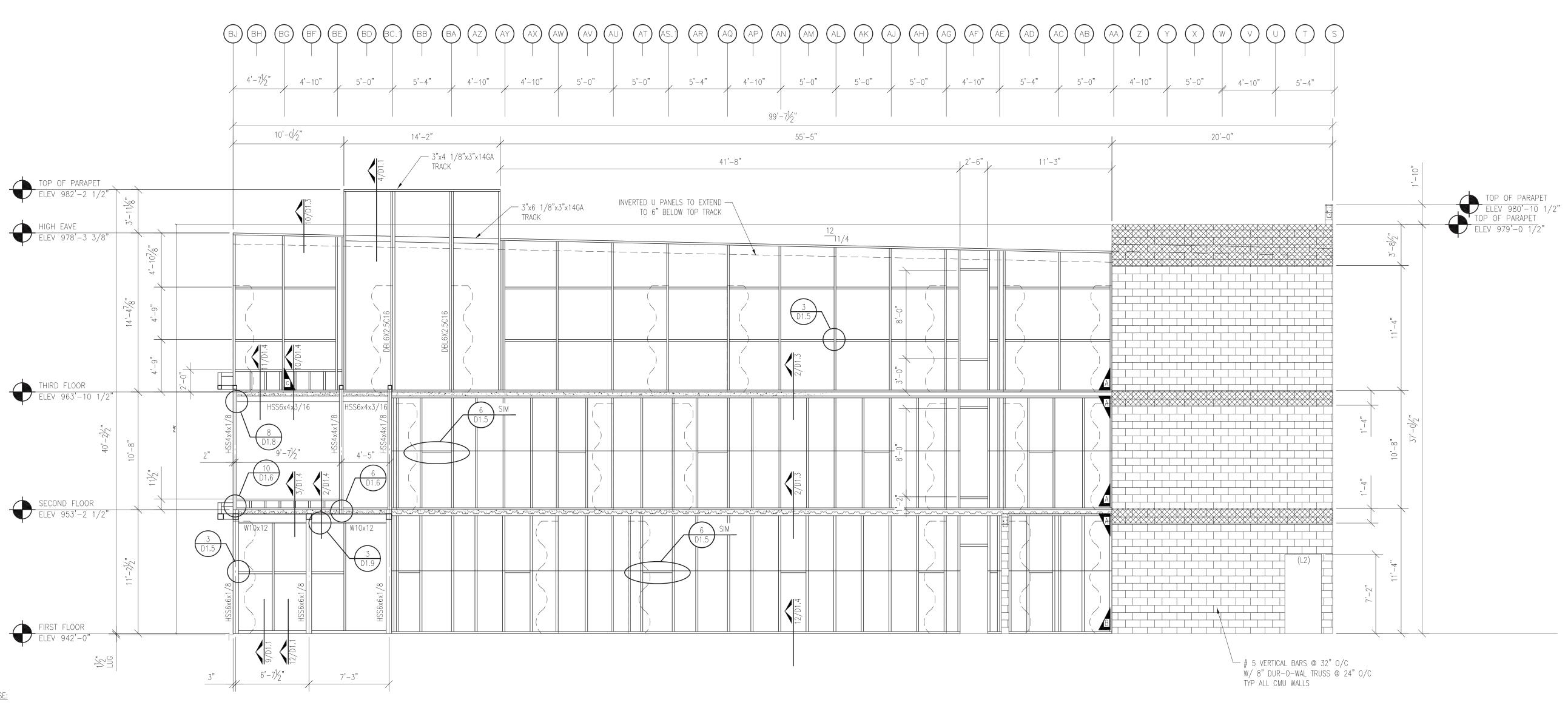
PROJECT NO. 2035

DATE: 12.15.2021

DRAWN:

**REVISIONS:** 

FRAMING ELEVATIONS



#### $\underline{\text{MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:}}$

-3RD. FLOOR COLUMN 6x2.5C16 @ 5'-0" O.C. -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -3RD. FLOOR GIRT 6x2.0C16 -3RD. FLOOR TOP CHANNEL 3x6 1/8x6 1/8x14ga TT4

-3RD. FLOOR TOP CHANNEL 3x6 1/8x6 1/8x14ga TT4 -3RD. FLOOR BOTTOM TRACK 2x6 1/8x2x16ga

-2ND. FLOOR COLUMN 4x2.0C16 @ 2'-6" O.C.
-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL
-2ND. FLOOR BRIDGING 4x2.0C16 @ MIDPOINT
-2ND. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1
-2ND. FLOOR MID POINT BRACING 2x16ga FLAT STRAP
CONTINUOUS DO NOT BREAK
-2ND. FLOOR WINDOW JAMB 4x2.0C16
-2ND. FLOOR WINDOW HEADER 4x2.0C16

DENOTES THE LOCATION OF BEARING WALL

IS USED AS SHEAR WALLS FOR LATERAL

BRACING OF THE STRUCTURE. **BEARING** 

WALL SHEATHING SHALL NOT REMOVED

DENOTES THE LOCATION OF WALL/BASE ANCHOR.

THE ENGINEER OF RECORD.

TYPE A: SIMPSON S/DTT2Z TENSION TIE

TYPE B: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8

SEE DETAIL 12/D1.8

TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

OR MODIFIED WITHOUT THE CONSENT OF

SHEATHING. ALL BEARING WALL SHEATHING

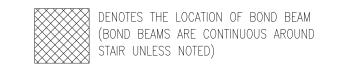
-2ND. FLOOR WINDOW HEADER 4x2.0C16
-2ND. FLOOR BOTTOM TRACK 2x4 1/8x2x16ga

-1ST. FLOOR COLUMN 6x2.0C16 @ 2'-6" O.C.
-1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL
-1ST. FLOOR BRIDGING 6x2.0C16 @ MIDPOINT
-1ST. FLOOR TOP TRACK 3x6 1/8x3x14ga TT2
-1ST. FLOOR MID POINT BRACING 2x16ga FLAT STRAP
CONTINUOUS DO NOT BREAK

-1ST. FLOOR WINDOW JAMB 6x2.0C16 -1ST. FLOOR WINDOW HEADER 6x2.0C16 -1ST. FLOOR BOTTOM TRACK 2x6 1/8x2x16ga

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.

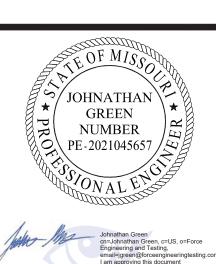




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19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338



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PROJECT NO. 2035

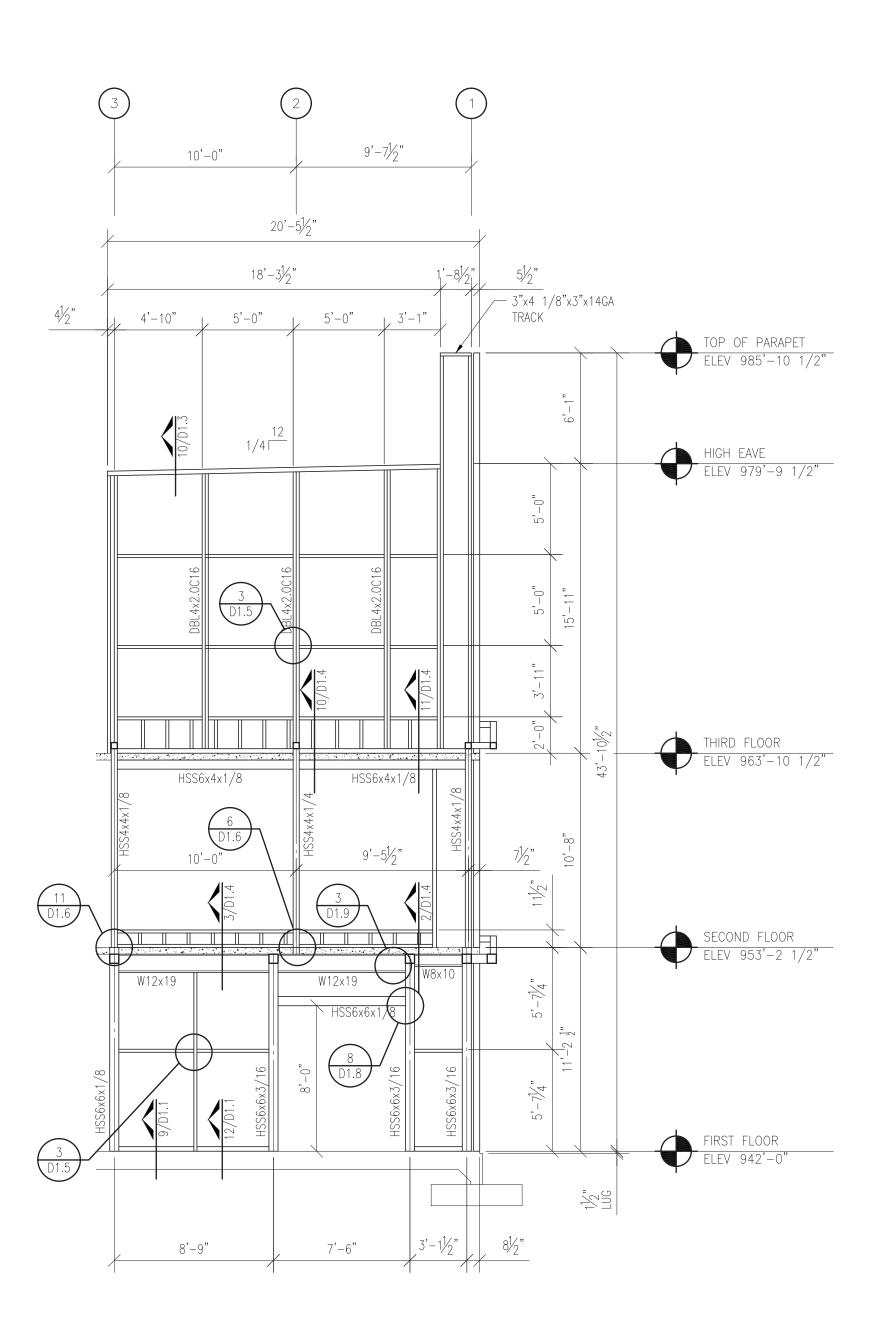
DATE: 12.15.2021

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REVISIONS:

FRAMING ELEVATIONS

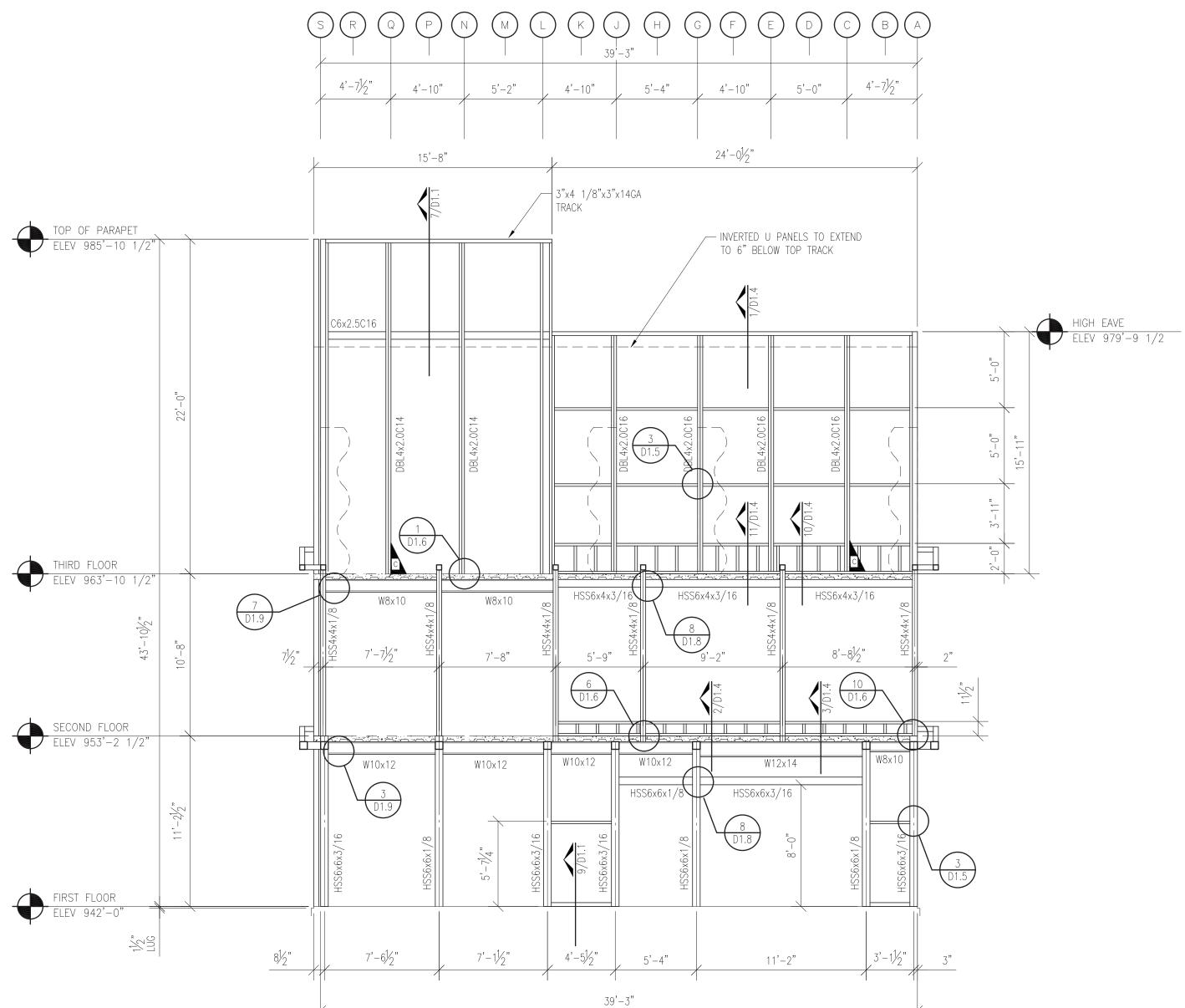
SHEET NO.



## FRAMING ELEVATION @ COLUMN LINE S (LOOKING SOUTH)

#### MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

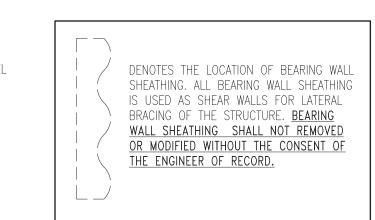
- -3RD. FLOOR COLUMN 4x2.5C16 @ 5'-0" O.C. MAX
- -3RD. FLOOR GIRT 4x2.0C16 @ 5'-0" O.C. MAX -3RD. FLOOR TOP TRACK 3x4 1/8x6 1/8x14ga TT3
- -1ST. FLOOR COLUMN 6x2.0C16 @ 5'-0" O.C. MAX
- −1ST. FLOOR GIRT 4x2.0C16 @ 5'−8" O.C. MAX −1ST. FLOOR BASE ANGLE 3x3x14ga.
- SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



FRAMING ELEVATION @ COLUMN LINE 1

#### MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

- -3RD. FLOOR COLUMN 4x2.5C16 @ 5'-0" O.C. MAX
  -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL
  -3RD. FLOOR GIRT 4x2.0C16 @ 5'-0" O.C. MAX
  -3RD. FLOOR TOP TRACK 3x4 1/8x4x14ga TT1
- -1ST. FLOOR GIRT 4x2.0C16 @ 5'-8" O.C. MAX -1ST. FLOOR BASE ANGLE 3x3x14ga.
- SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR.

TYPE A: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE
SEE DETAIL 7/D1.8

TYPE C: SIMPSON S/DTT2Z TENSION TIE
SEE DETAIL 9/D1.8

FRAMING ELEVATIONS

2035

SHEET NO.

PROJECT NO.

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**REVISIONS:** 

DATE: 12.15.2021

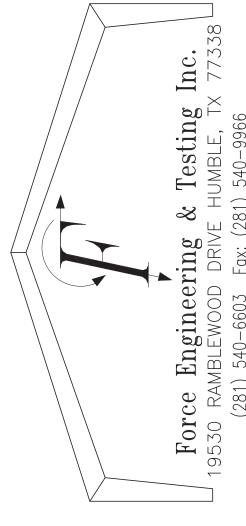
56.6

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AKEWOODOO SHORAGE

Lee's Summit, Missouri 03/18/2022





PROJECT NO. 2035

12.15.2021

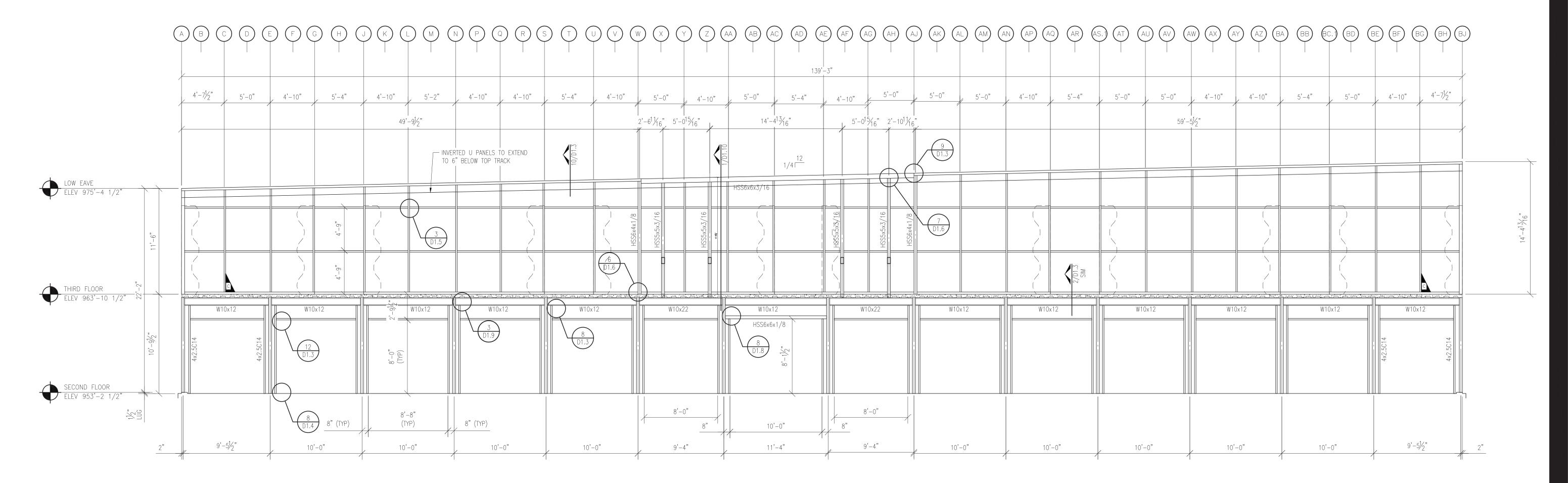
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FRAMING **ELEVATIONS** 

SHEET NO.

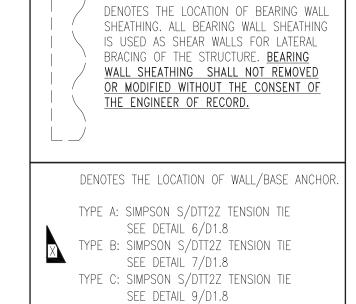
56.7

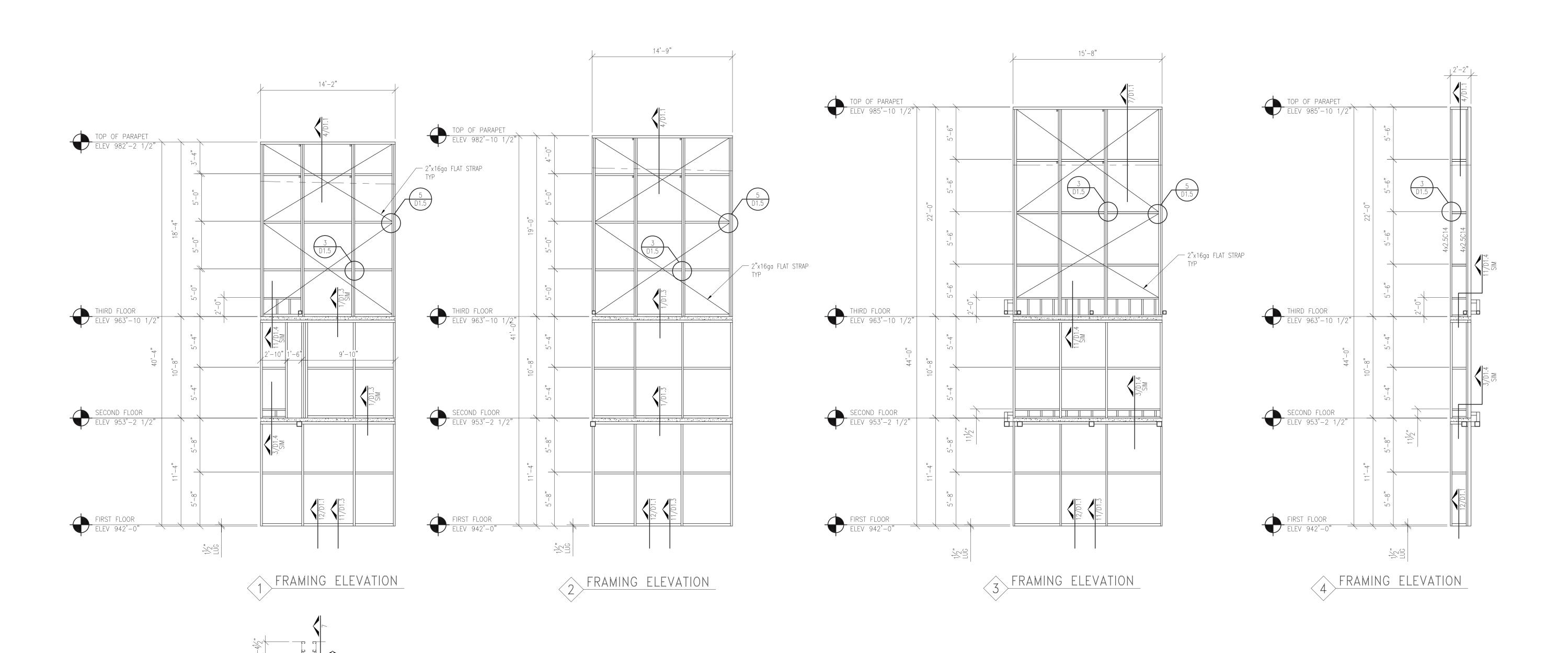


FRAMING ELEVATION @ COLUMN LINE 27

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

- -3RD. FLOOR COLUMN 6x2.5C16 @ 5'-0" O.C. MAX -3RD. FLOOR GIRT 6x2.0C16
- -3RD. FLOOR TOP TRACK 3x6 1/8x6 1/8x14ga TT4 -3RD. FLOOR BOTTOM TRACK 2x6 1/8x2x16ga
- -2ND. FLOOR COLUMN HSS 4x4x1/8"-2ND. FLOOR DOOR JAMB 4x2.5C16 -2ND. FLOOR DOOR HEADER 4x2.0C16





MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN DBL 4x2.5C14 @ 5'-0" O.C. MAX

-2ND. FLOOR COLUMN 4x2.0C16 @ 5'-0" O.C. MAX

-1ST. FLOOR COLUMN 4x2.5C14 @ 5'-0" O.C. MAX -1ST. FLOOR GIRT 4x2.0C16 @ 5'-8" O.C. MAX

-1ST. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.

-1ST. FLOOR BASE ANGLE 3x3x14ga

-2ND. FLOOR GIRT 4x2.0C16 @ 5'-4" O.C. MAX -2ND. FLOOR TOP TRACK 3x4 1/8x3x14ga TT1

-3RD. FLOOR GIRT 4x2.0C16

-3RD. FLOOR TOP TRACK 3x4 1/8x3x14ga

5 PLAN AT VERTICAL ACM FRAMING

4x2.0C16 TYP

2"x4 1/8"x2"x16ga —

2"x4 1/8"x2"x16ga — BOTTOM TRACK TYP

THIRD FLOOR
ELEV 963'-10 1/2"

TOP TRACK

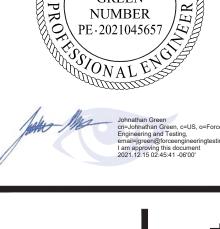
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Development Services Repartment Lee's Summit, Missouri 03/18/2022

Force Engineer

Refer * 19530 RAMBLEWOOD

(281) 540-6603



KEWOOD HORAGE

PROJECT NO. 2035

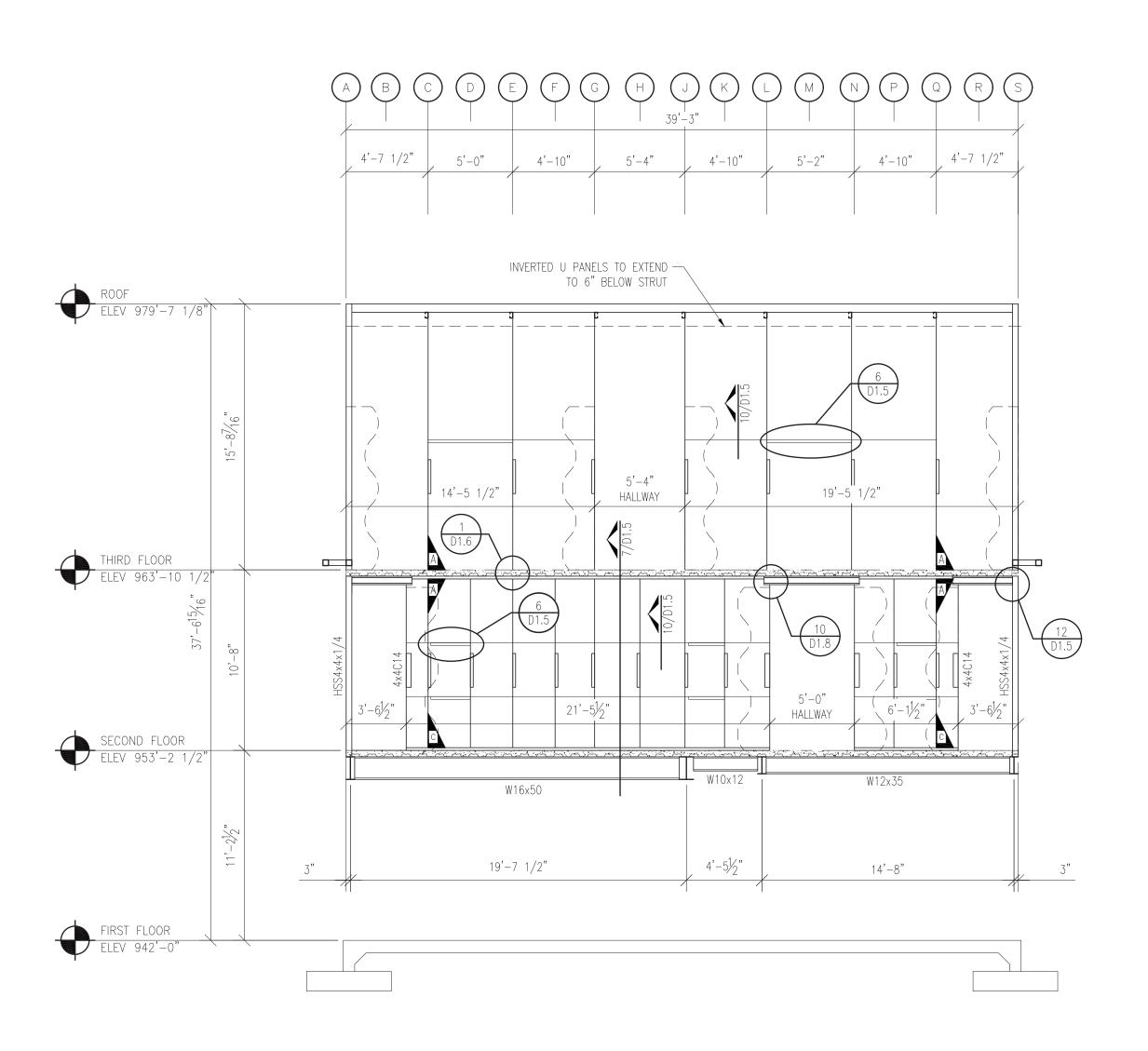
DATE: 12.15.2021

DRAWN:

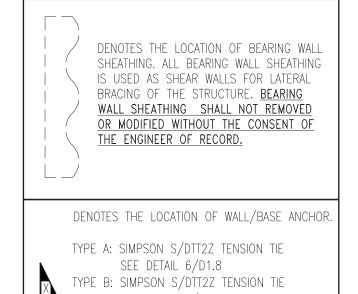
REVISIONS:

FRAMING ELEVATIONS

SHEET NO.



FRAMING ELEVATION @ COLUMN LINE 2 (LOOKING WEST)



-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

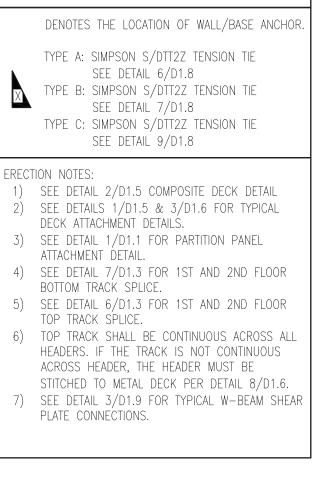
-2ND. FLOOR COLUMN 4x2.0C16
-2ND. FLOOR HALLWAY COLUMN 4x4C14
-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga.
-2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5)
-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"
SUBGIRT) CONTINUOUS DO NOT BREAK

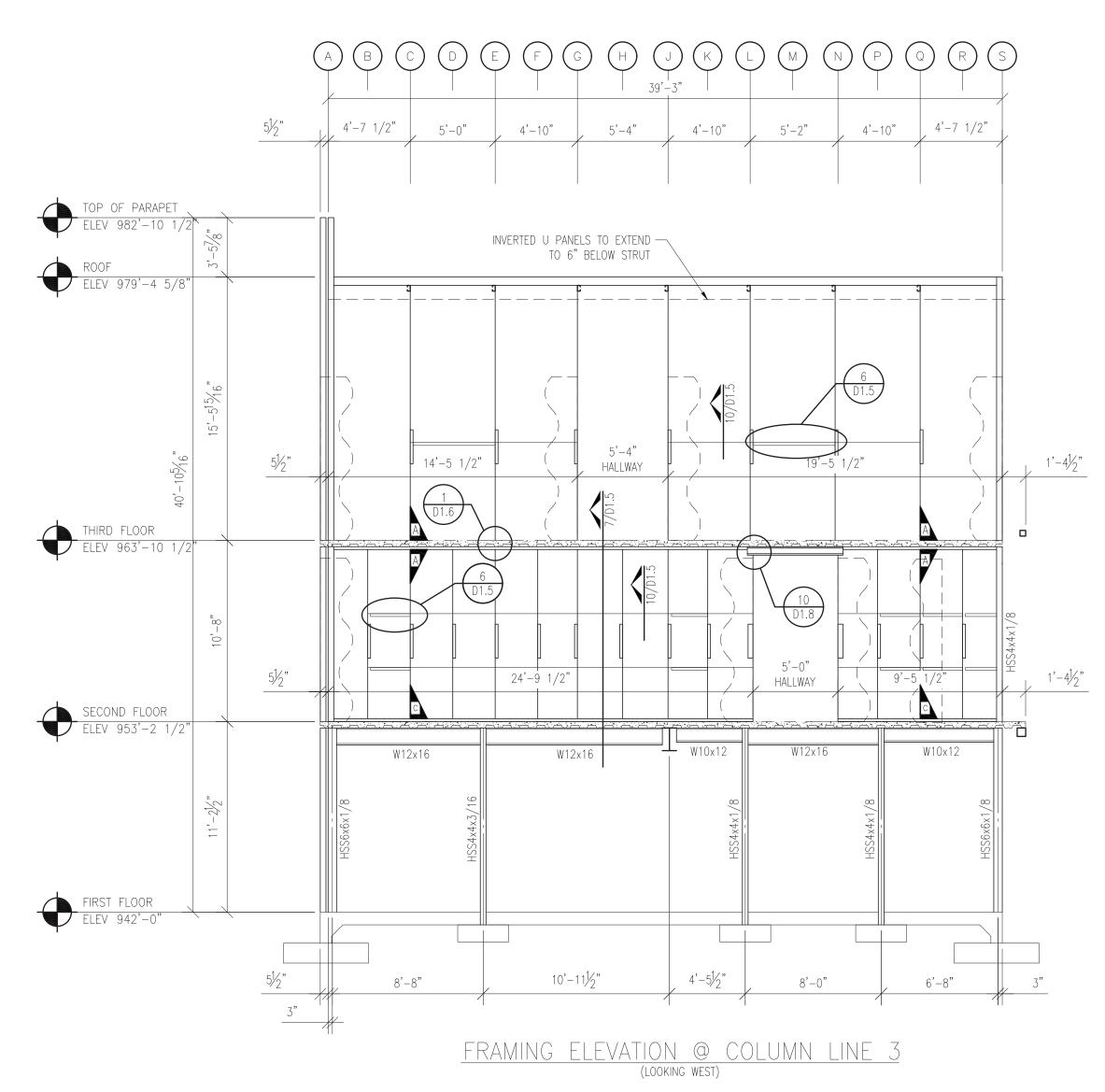
-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL-2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR COLUMN 6x2.5C16

-1ST. FLOOR HALLWAY COLUMN 6x4C14
-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga.
-1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6)
-1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"
SUBGIRT)CONTINUOUS DO NOT BREAK
-1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL
-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

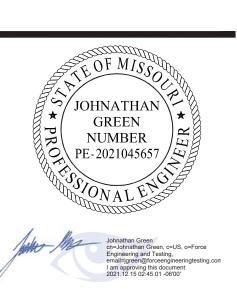
SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.





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Force Engineering & Testing Inc.
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(281) 540-6603 Fax: (281) 540-9966



# AKEWOOD 3HORAGE

PROJECT NO.

DATE: 12.15.2021

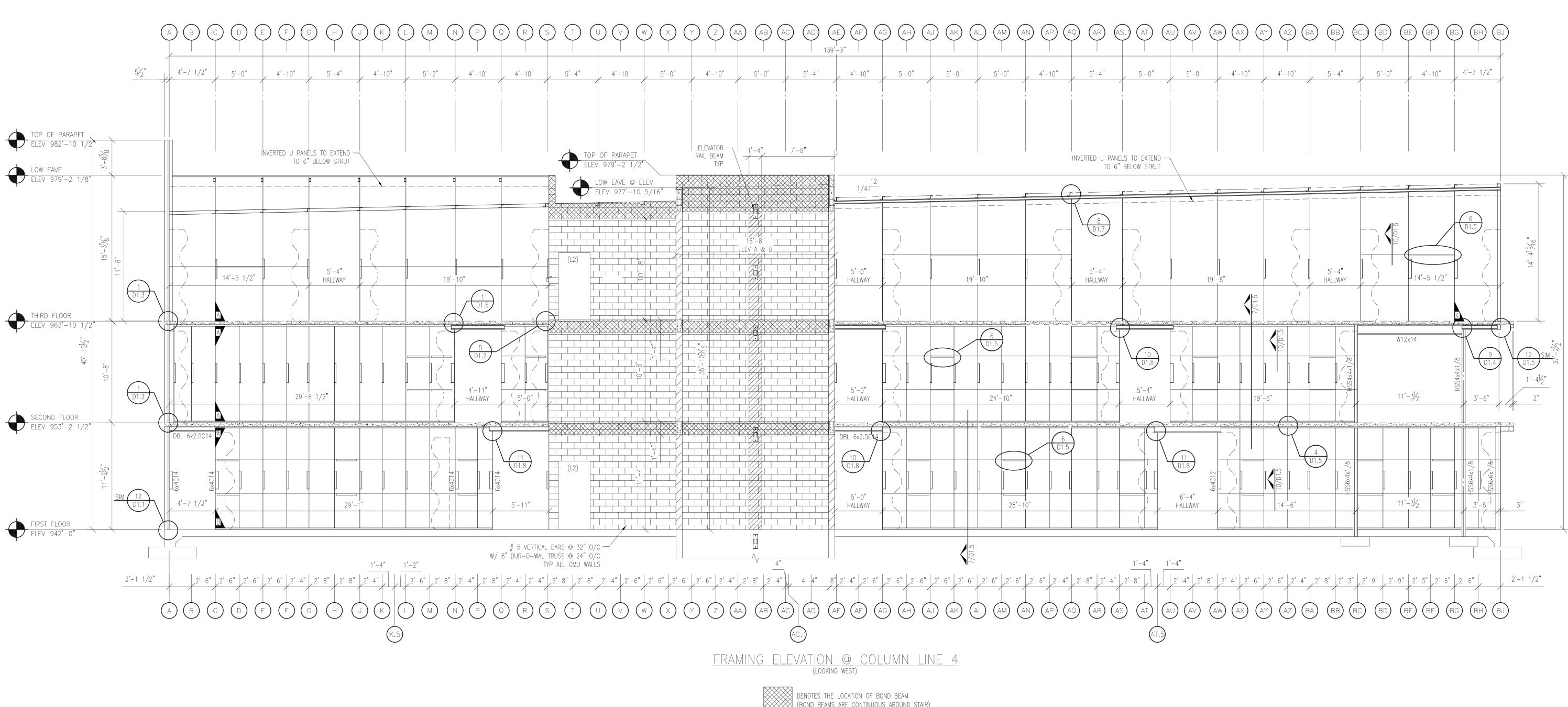
2035

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REVISIONS:

FRAMING ELEVATIONS

SHEET NO.



(BOND BEAMS ARE CONTINUOUS AROUND STAIR)

DENOTES THE LOCATION OF GROUT FILLED CELLS FOR ELEVATOR RAIL BEAM

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT) CONTINUOUS DO NOT BREAK -2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

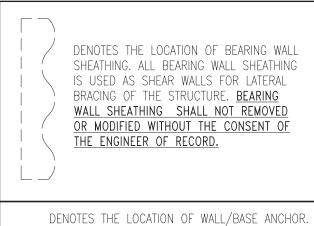
-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14

-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



TYPE A: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL ATTACHMENT DETAIL.

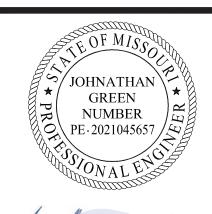
4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE.

5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR TOP TRACK SPLICE. 6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS

ACROSS HEADER, THE HEADER MUST BE STITCHED TO METAL DECK PER DETAIL 8/D1.6. 7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR

PLATE CONNECTIONS.

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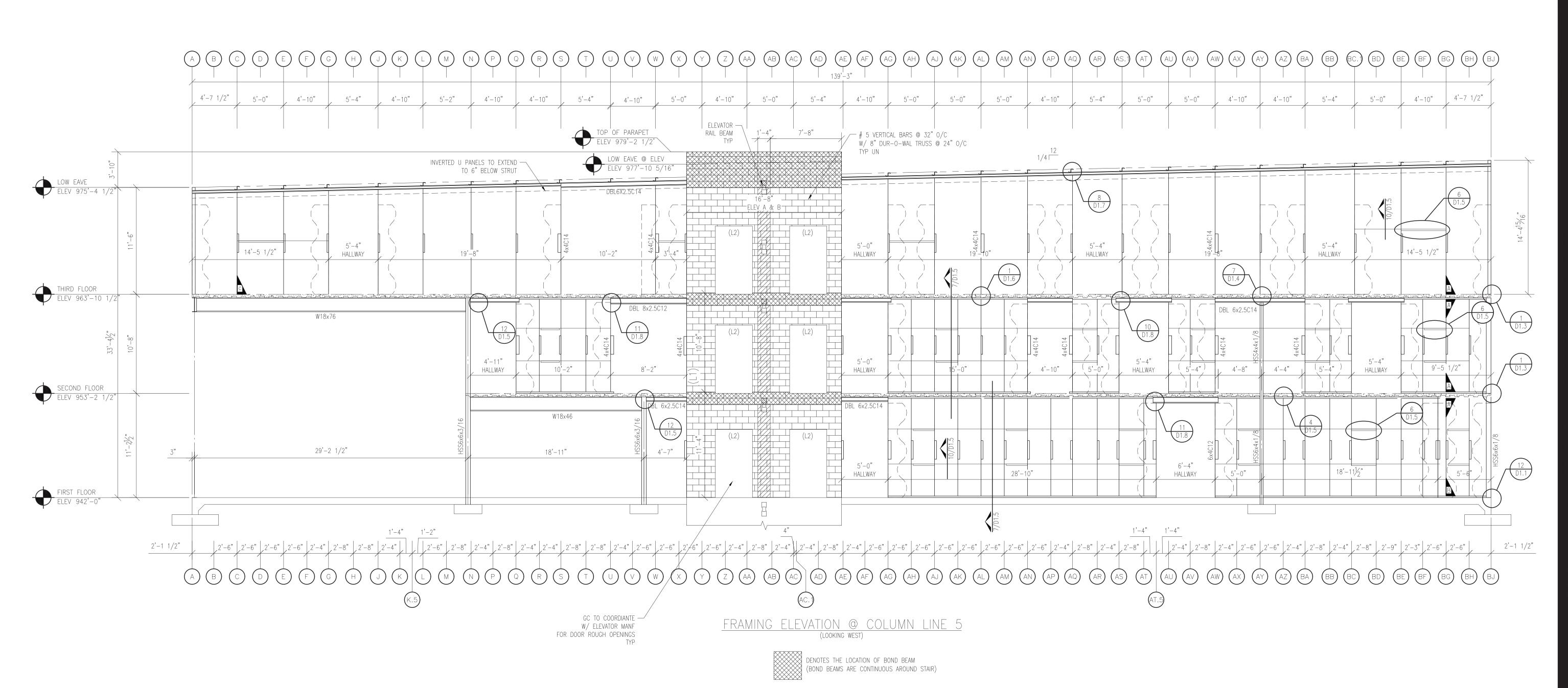
12.15.2021

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FRAMING **ELEVATIONS** 

SHEET NO.



MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16
-2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT) CONTINUOUS DO NOT BREAK
-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

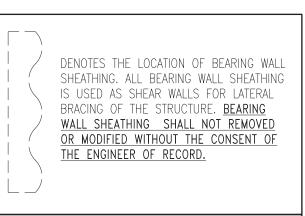
-2ND. FLOOR PARTITION PANEL-29gd. INVERTED U PAN -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR COLUMN 6x2.5C16
-1ST. FLOOR HALLWAY COLUMN 6x4C14

-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK
-1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL
-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR.

TYPE A: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 7/D1.8

TYPE C: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL
2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

DECK ATTACHMENT DETAILS.

3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

ATTACHMENT DETAIL.

4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR

BOTTOM TRACK SPLICE.

5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR

TOP TRACK SPLICE.

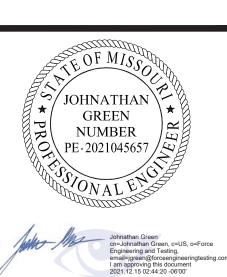
6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6.

7) SEE DETAIL 3/D1.9 FOR TYPICAL W—BEAM SHEAR PLATE CONNECTIONS.

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19530 RAMBLEWOOD DRIVE HUMBLE, TX 77338



PROJECT NO. 2035

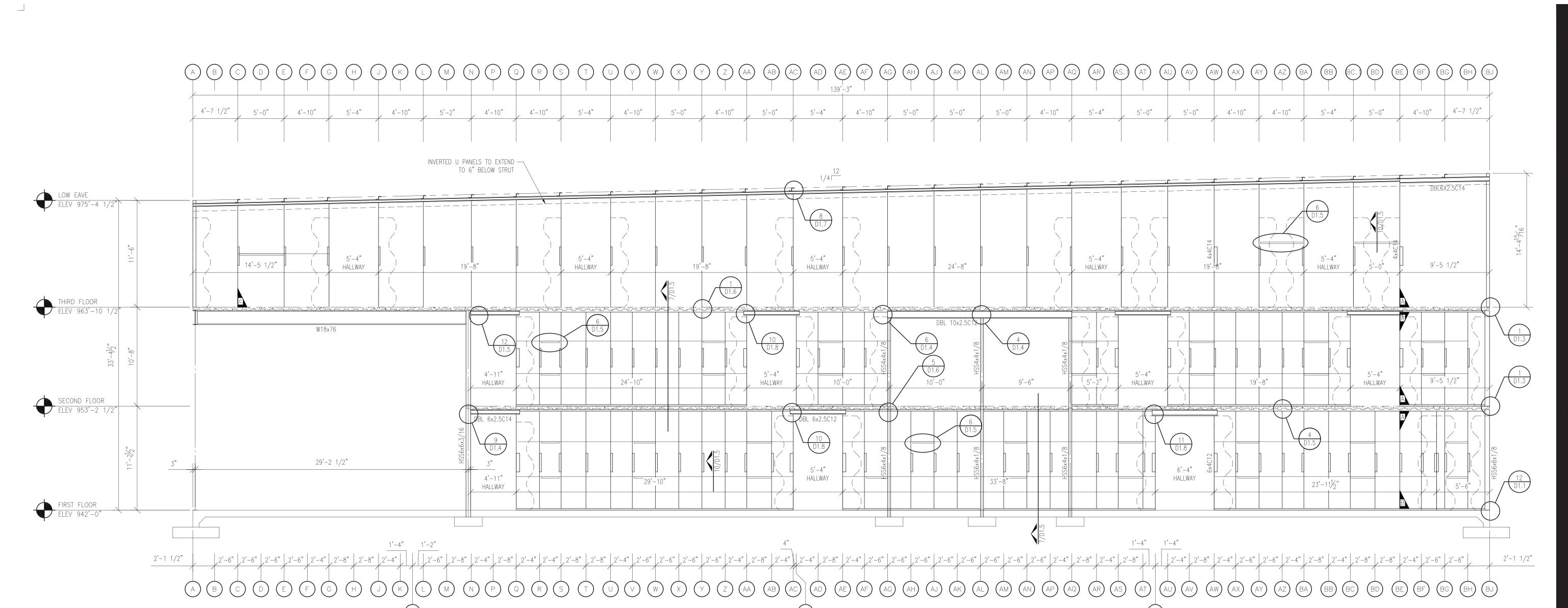
PATE: 12.15.2021

DRAWN:

REVISIONS:

FRAMING ELEVATIONS

SHEET NO.



FRAMING ELEVATION @ COLUMN LINE 6 (LOOKING WEST)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT) CONTINUOUS DO NOT BREAK

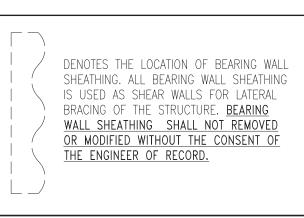
-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR COLUMN 6x2.5C16

-1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



TYPE A: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 6/D1.8

DENOTES THE LOCATION OF WALL/BASE ANCHOR.

TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

ATTACHMENT DETAIL.

DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

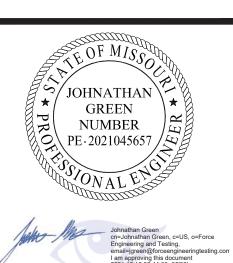
4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE. 5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR

TOP TRACK SPLICE. 6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6. 7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.

As Noted on Plans Review

RELEASED FOR CONSTRUCTION



PROJECT NO. 2035

12.15.2021

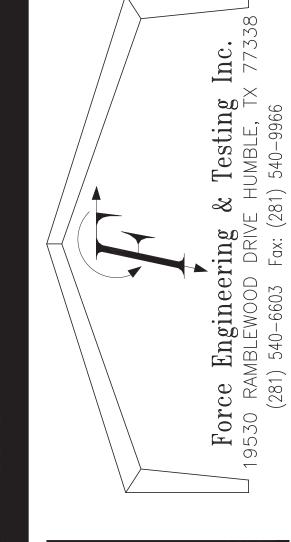
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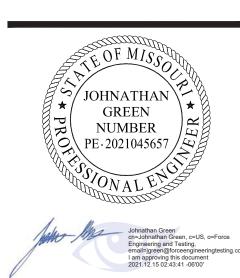
REVISIONS:

FRAMING **ELEVATIONS** 

SHEET NO.

**S7.4** 





PROJECT NO. 2035 12.15.2021 DATE:

DRAWN:

DENOTES THE LOCATION OF WALL/BASE ANCHOR.

TYPE A: SIMPSON S/DTT2Z TENSION TIE

TYPE B: SIMPSON S/DTT2Z TENSION TIE

TYPE C: SIMPSON S/DTT2Z TENSION TIE

) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL

2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR

5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR

6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS

ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6.

SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR

DECK ATTACHMENT DETAILS.

ATTACHMENT DETAIL.

TOP TRACK SPLICE.

PLATE CONNECTIONS.

BOTTOM TRACK SPLICE.

SEE DETAIL 6/D1.8

SEE DETAIL 7/D1.8

SEE DETAIL 9/D1.8

ERECTION NOTES:

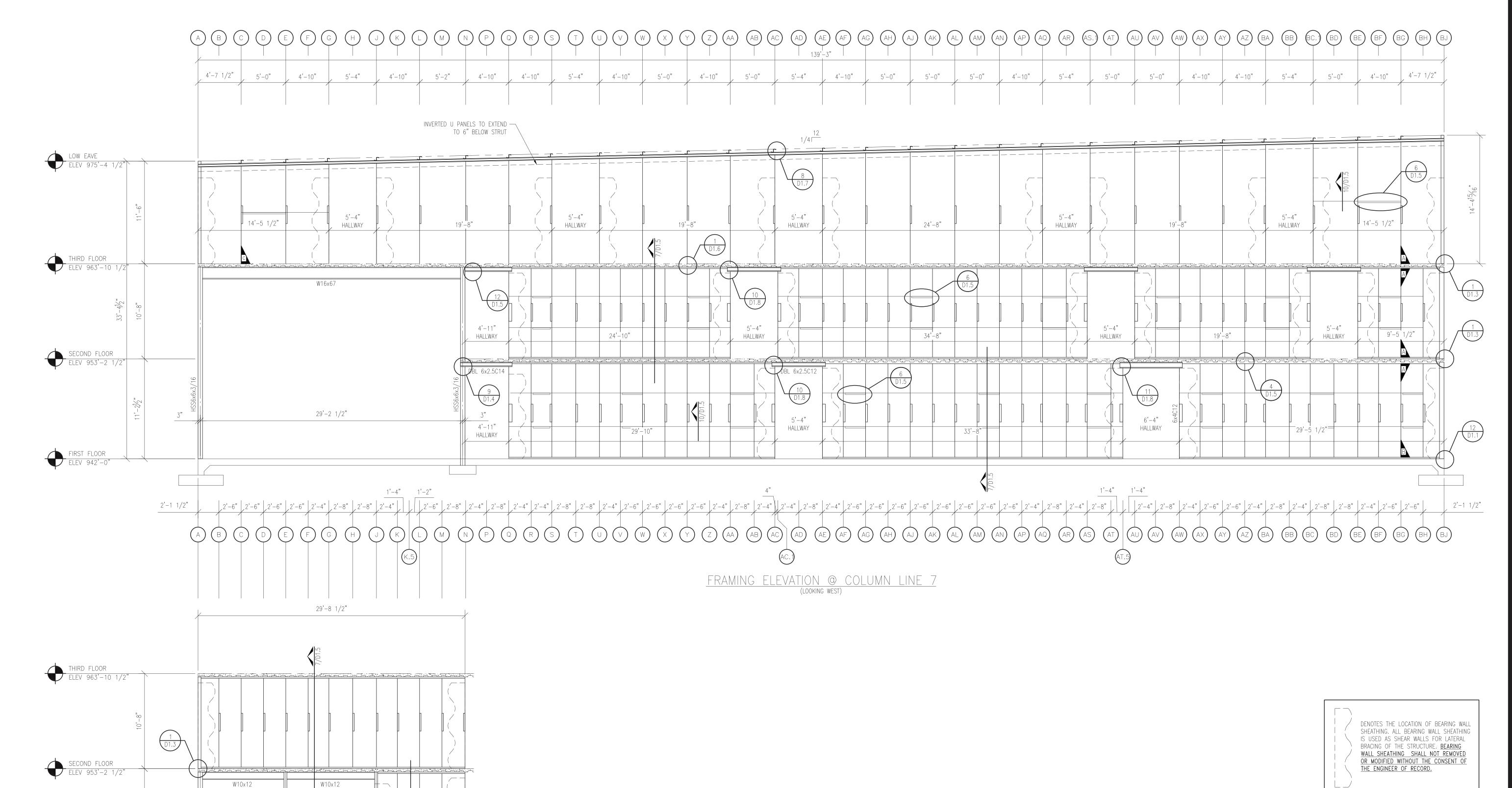
**REVISIONS:** 

FRAMING

**ELEVATIONS** 

SHEET NO.

**S7.5** 



9'-61/2"

FIRST FLOOR
ELEV 942'-0"

10'-2"

FRAMING ELEVATION @ COLUMN LINE 7.5

-3RD. FLOOR COLUMN 4x2.5C16

-3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14 -2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga.

-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

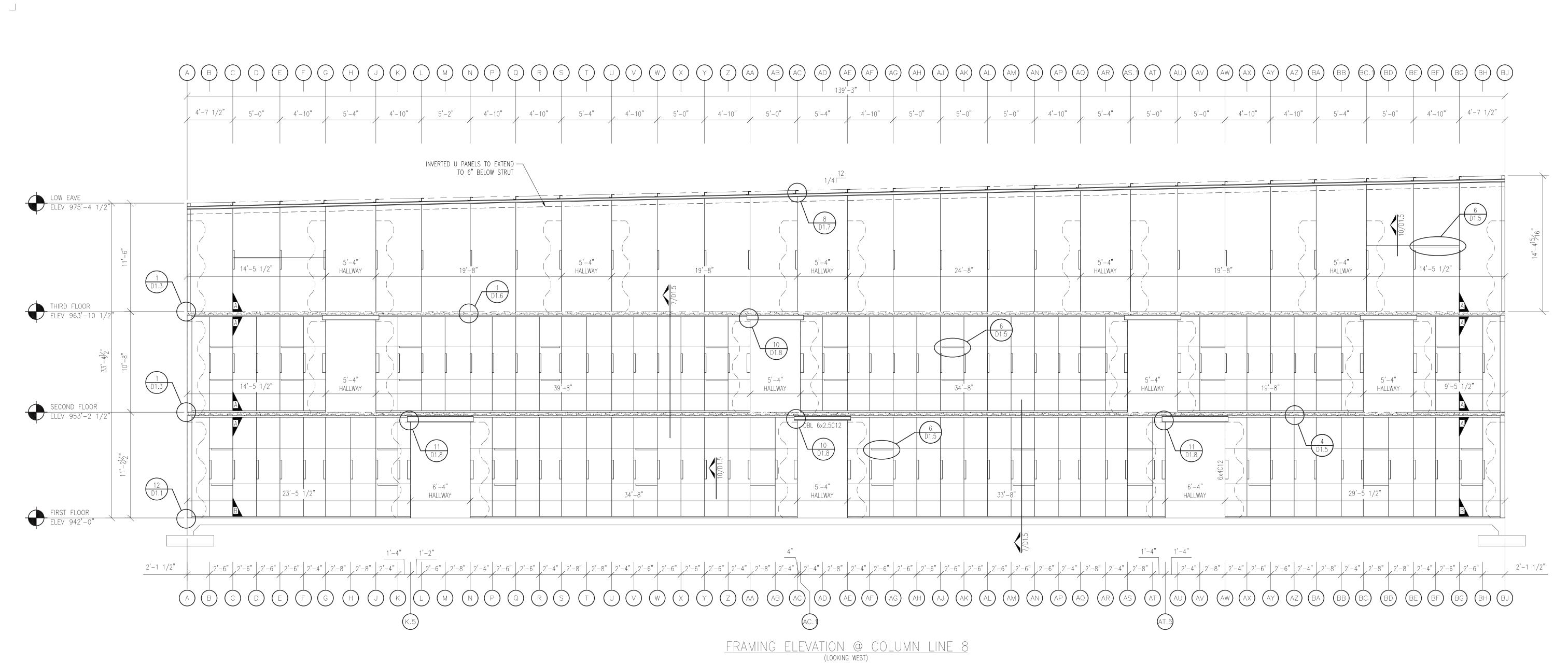
SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT) CONTINUOUS DO NOT BREAK

-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL



MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT) CONTINUOUS DO NOT BREAK

-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

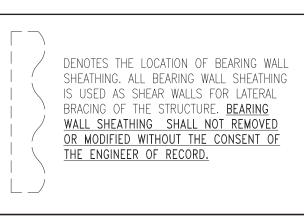
-1ST. FLOOR COLUMN 6x2.5C16

-1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6)

-1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR. TYPE A: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8 TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL

2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

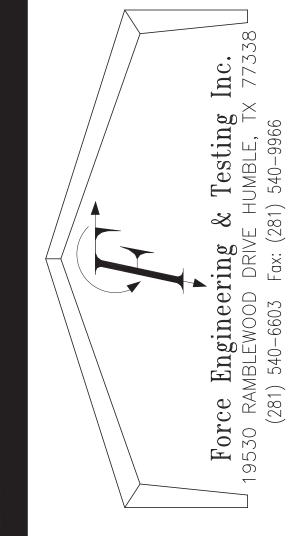
ATTACHMENT DETAIL. 4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE.

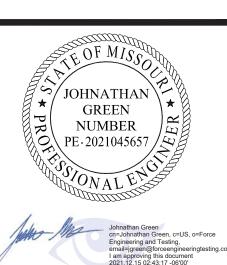
5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR TOP TRACK SPLICE. 6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL

HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE STITCHED TO METAL DECK PER DETAIL 8/D1.6.

7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.

RELEASED FOR CONSTRUCTION As Noted on Plans Review





PROJECT NO.

12.15.2021

2035

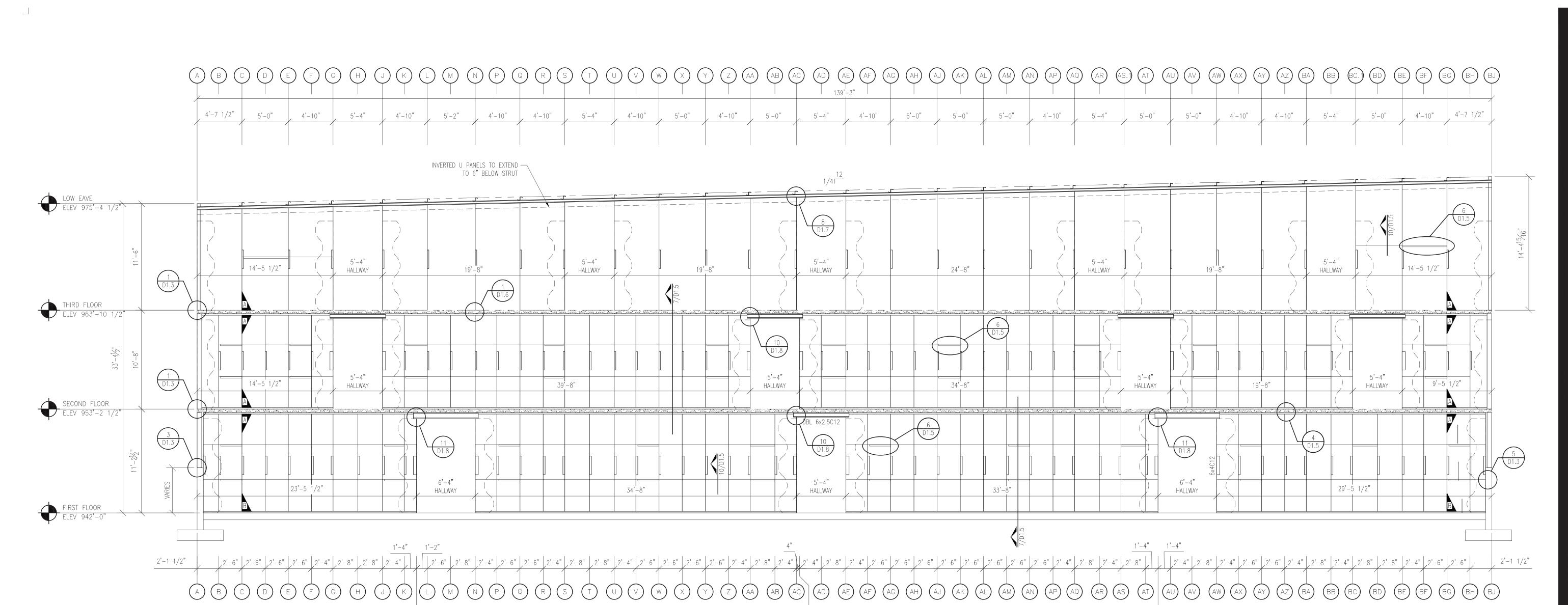
DRAWN:

REVISIONS:

FRAMING **ELEVATIONS** 

SHEET NO.

57.6



FRAMING ELEVATION @ COLUMN LINES 9-19 (LOOKING WEST)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT) CONTINUOUS DO NOT BREAK

-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

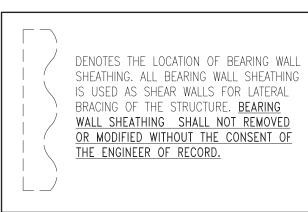
-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14

-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR. TYPE A: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8 TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL

2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

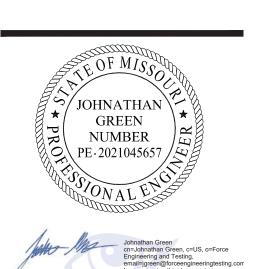
ATTACHMENT DETAIL. 4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE.

5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR TOP TRACK SPLICE. 6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL

HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE STITCHED TO METAL DECK PER DETAIL 8/D1.6.

7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.

RELEASED FOR CONSTRUCTION As Noted on Plans Review



PROJECT NO. 2035

12.15.2021

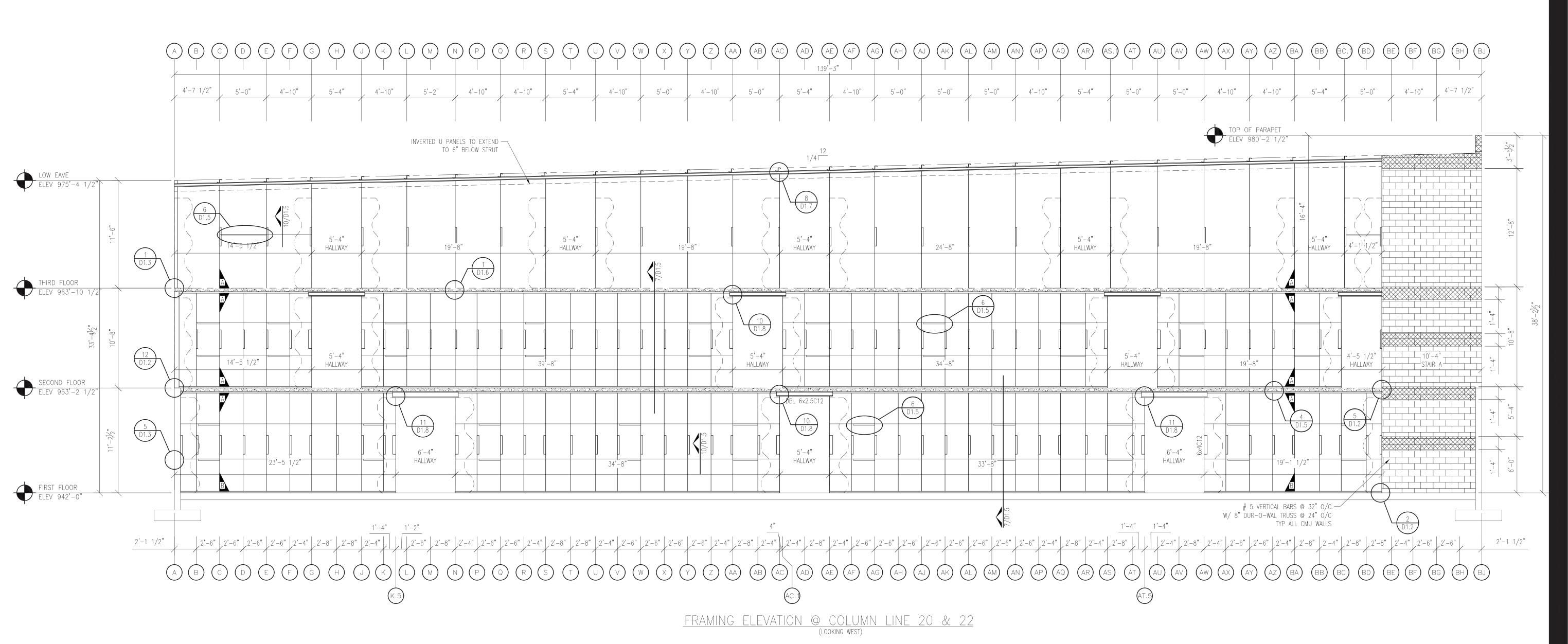
DRAWN:

REVISIONS:

FRAMING **ELEVATIONS** 

SHEET NO.

57.7



DENOTES THE LOCATION OF BOND BEAM

(BOND BEAMS ARE CONTINUOUS AROUND STAIR)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. - (TT5) -2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT) CONTINUOUS DO NOT BREAK

-2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

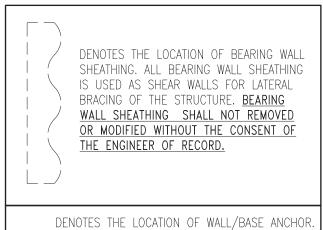
-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14

-1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



TYPE A: SIMPSON S/DTT2Z TENSION TIE

SEE DETAIL 6/D1.8 TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

ATTACHMENT DETAIL.

DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

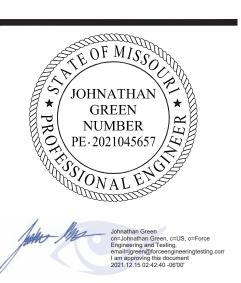
4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE.

5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR TOP TRACK SPLICE.

6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6. 7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.

RELEASED FOR CONSTRUCTION As Noted on Plans Review



PROJECT NO. 2035

12.15.2021

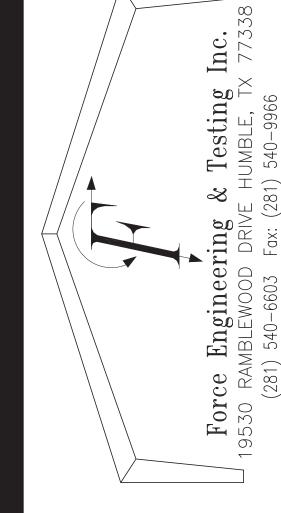
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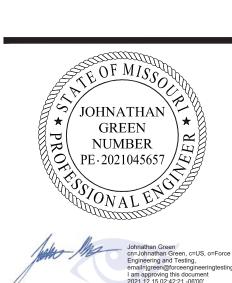
REVISIONS:

FRAMING **ELEVATIONS** 

SHEET NO.

**S7.8** 





12.15.2021

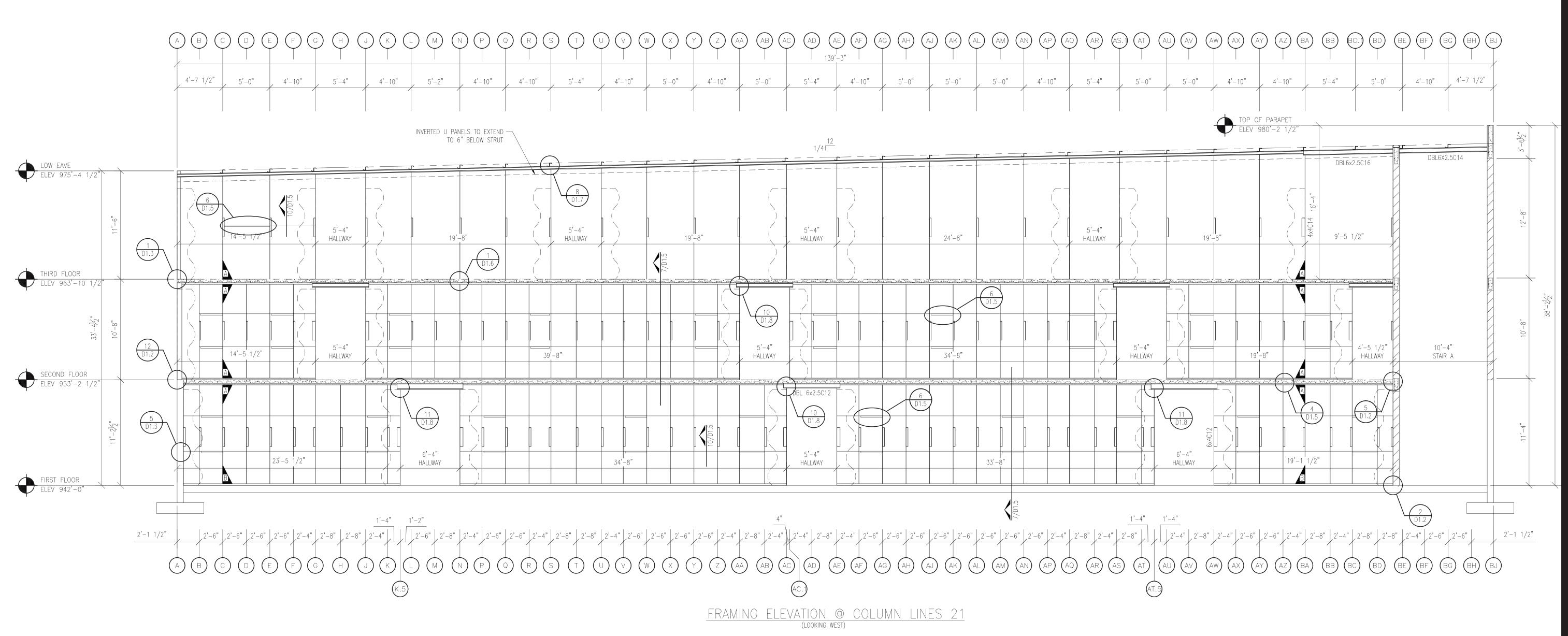
DRAWN:

REVISIONS:

FRAMING ELEVATION

SHEET NO.

57.9



MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-1ST. FLOOR COLUMN 6x2.5C16

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

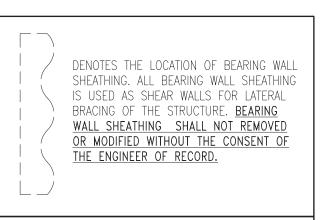
SUBGIRT) CONTINUOUS DO NOT BREAK -2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6)

-1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2" SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR. TYPE A: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

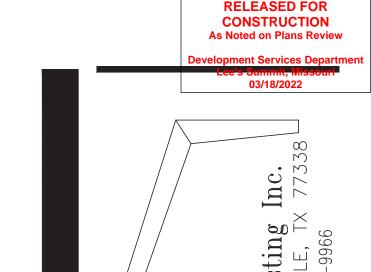
1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL DECK ATTACHMENT DETAILS.

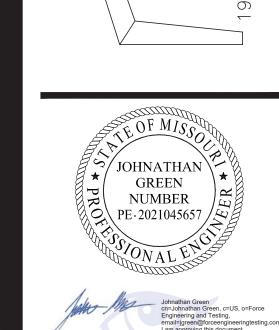
3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL ATTACHMENT DETAIL.

4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE. 5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR

TOP TRACK SPLICE. 6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6. 7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.





12.15.2021

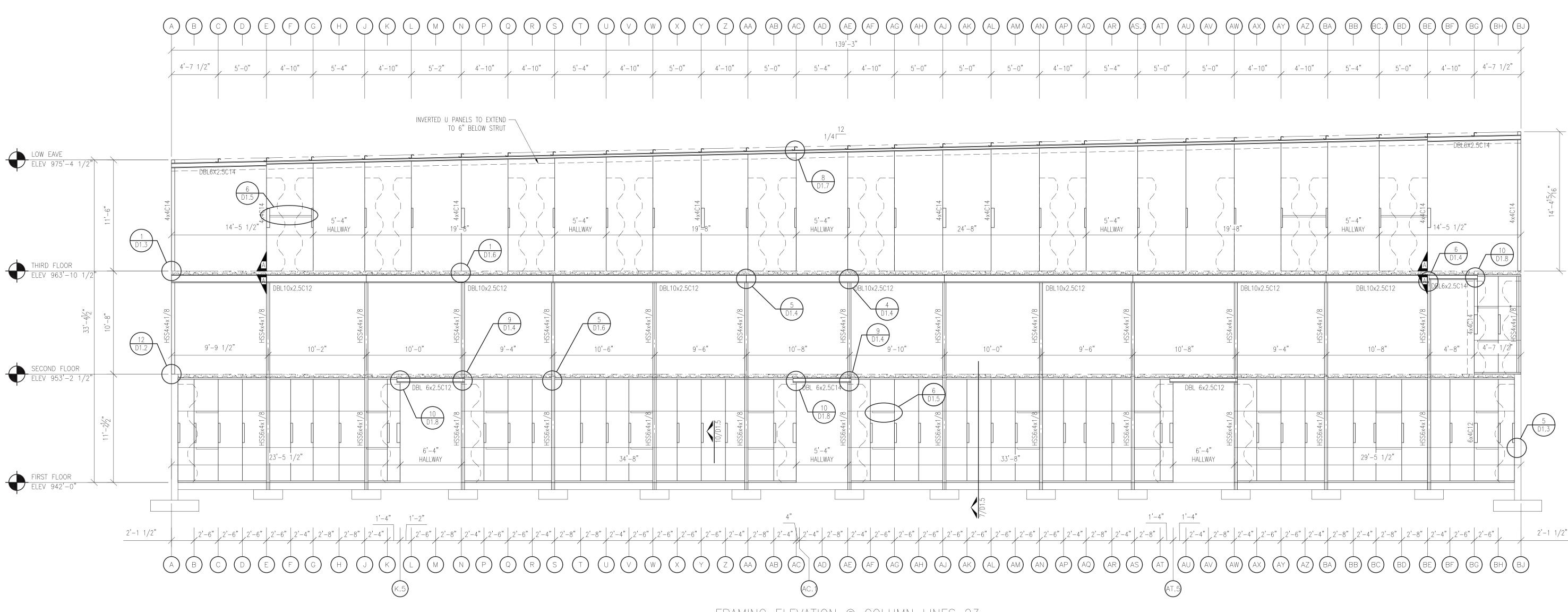
DRAWN:

REVISIONS:

FRAMING ELEVATION

SHEET NO.

**S7.**10



FRAMING ELEVATION @ COLUMN LINES 23 (LOOKING WEST)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-1ST. FLOOR COLUMN 6x2.5C16

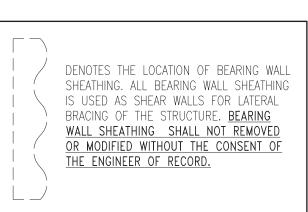
-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT) CONTINUOUS DO NOT BREAK -2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR. TYPE A: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

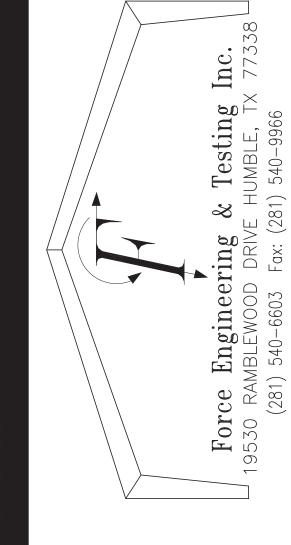
1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

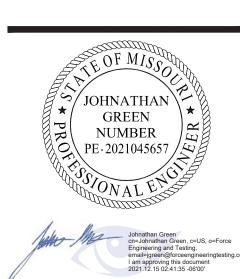
DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL ATTACHMENT DETAIL.

4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE. 5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR

TOP TRACK SPLICE. 6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6. 7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.





12.15.2021

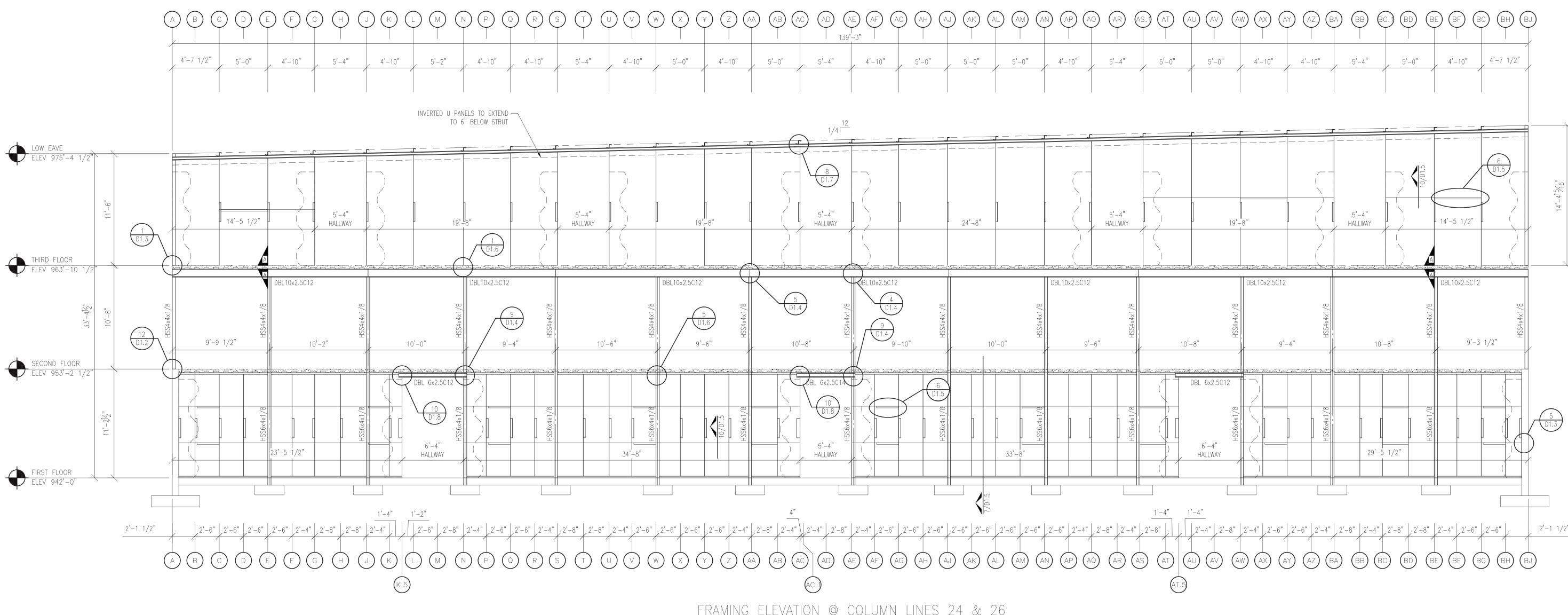
DRAWN:

REVISIONS:

FRAMING ELEVATION

SHEET NO.

**S7.**11



FRAMING ELEVATION @ COLUMN LINES 24 & 26 (LOOKING WEST)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

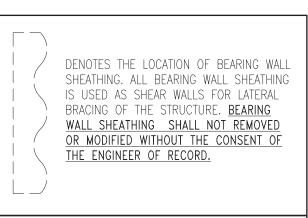
SUBGIRT) CONTINUOUS DO NOT BREAK -2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR COLUMN 6x2.5C16

-1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga. -1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR. TYPE A: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL DECK ATTACHMENT DETAILS.

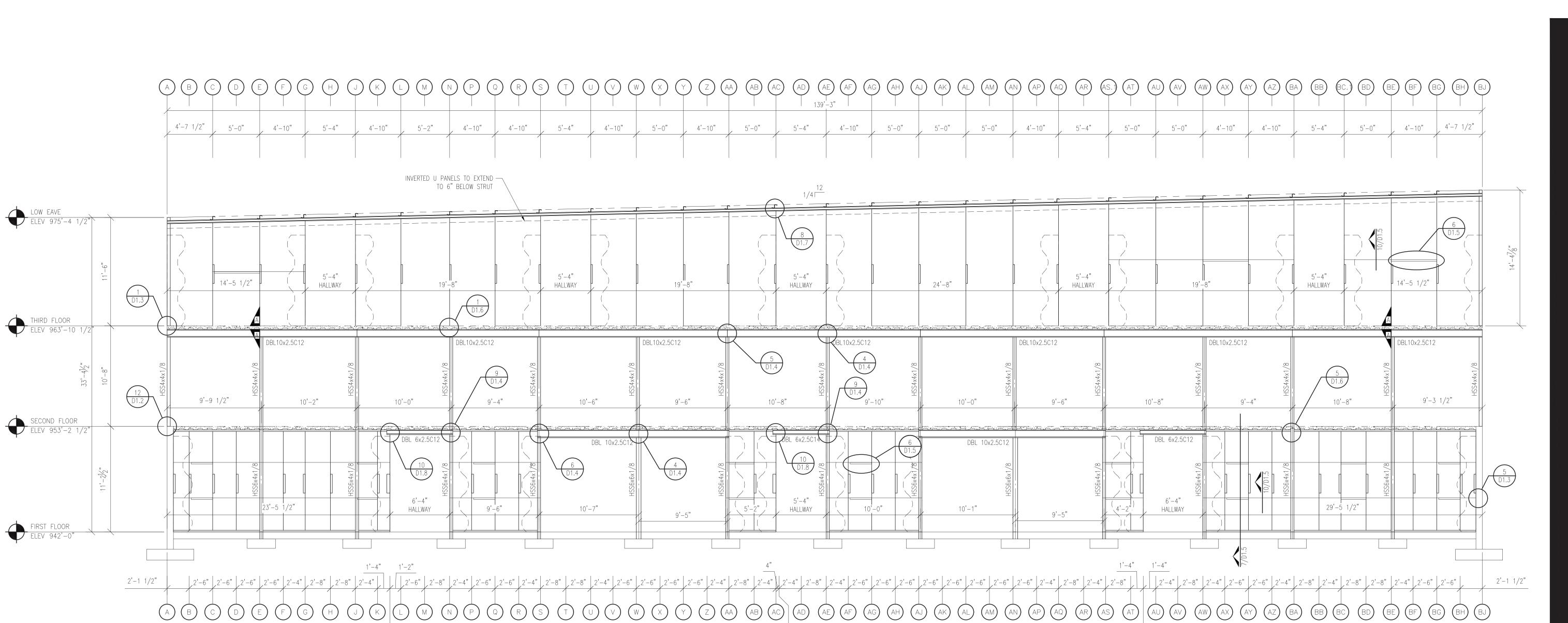
3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL ATTACHMENT DETAIL.

4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE. 5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR TOP TRACK SPLICE.

HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE STITCHED TO METAL DECK PER DETAIL 8/D1.6.

6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL

7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.



FRAMING ELEVATION @ COLUMN LINE 25 (LOOKING WEST)

MATERIAL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

-3RD. FLOOR COLUMN 4x2.5C16 -3RD. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL

-2ND. FLOOR COLUMN 4x2.0C16 -2ND. FLOOR HALLWAY COLUMN 4x4C14

-2ND. FLOOR BASE TRACK -2x4-1/8x2x16ga. -2ND. FLOOR TOP TRACK -2x4-1/8x3x1x12ga. -(TT5)-2ND. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

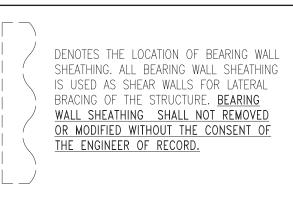
SUBGIRT) CONTINUOUS DO NOT BREAK -2ND. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -2ND. FLOOR HALLWAY HEADER DBL 6x2.5C14 (U.N.O.)

-1ST. FLOOR COLUMN 6x2.5C16 -1ST. FLOOR HALLWAY COLUMN 6x4C14 -1ST. FLOOR BASE TRACK -2x6-1/8x2x16ga.

-1ST. FLOOR TOP TRACK -2x6-1/8x3x1x12ga.- (TT6) -1ST. FLOOR 1/3 POINT BRACING-16ga. -SG-2 (1/2"

SUBGIRT)CONTINUOUS DO NOT BREAK -1ST. FLOOR PARTITION PANEL-29ga. INVERTED "U" PANEL -1ST. FLOOR HALLWAY HEADER DBL 8x2.5C12 (U.N.O.)

SEE DETAIL 9/D1.6 FOR TOP TRACK SCHEDULE.



DENOTES THE LOCATION OF WALL/BASE ANCHOR. TYPE A: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 6/D1.8

TYPE B: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 7/D1.8 TYPE C: SIMPSON S/DTT2Z TENSION TIE SEE DETAIL 9/D1.8

ERECTION NOTES:

1) SEE DETAIL 2/D1.5 COMPOSITE DECK DETAIL 2) SEE DETAILS 1/D1.5 & 3/D1.6 FOR TYPICAL

ATTACHMENT DETAIL.

DECK ATTACHMENT DETAILS. 3) SEE DETAIL 1/D1.1 FOR PARTITION PANEL

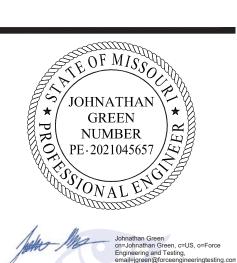
4) SEE DETAIL 7/D1.3 FOR 1ST AND 2ND FLOOR BOTTOM TRACK SPLICE.

5) SEE DETAIL 6/D1.3 FOR 1ST AND 2ND FLOOR TOP TRACK SPLICE.

6) TOP TRACK SHALL BE CONTINUOUS ACROSS ALL HEADERS. IF THE TRACK IS NOT CONTINUOUS ACROSS HEADER, THE HEADER MUST BE

STITCHED TO METAL DECK PER DETAIL 8/D1.6. 7) SEE DETAIL 3/D1.9 FOR TYPICAL W-BEAM SHEAR PLATE CONNECTIONS.

RELEASED FOR CONSTRUCTION As Noted on Plans Review



PROJECT NO. 2035

12.15.2021

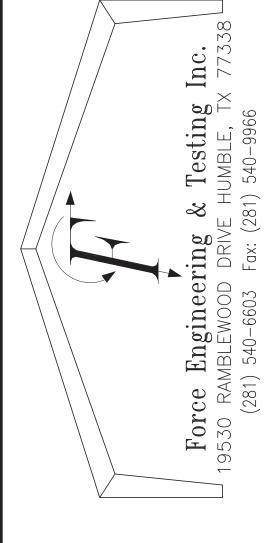
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**REVISIONS:** 

FRAMING ELEVATION

SHEET NO.

**S7.12** 





# K E W O O D T T O R A G E

PROJECT NO.

DATE:

DRAWN:

2035

12.15.2021

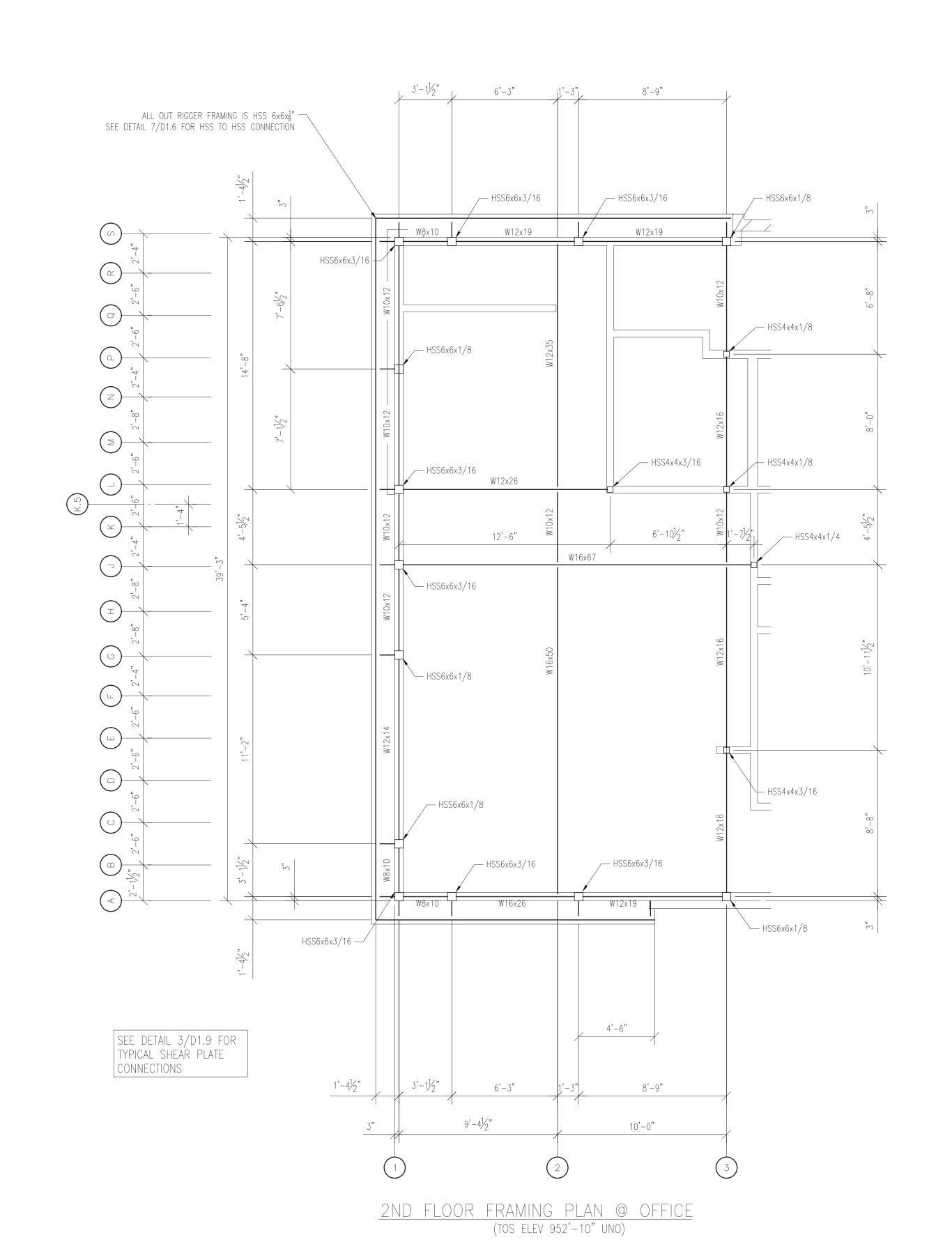
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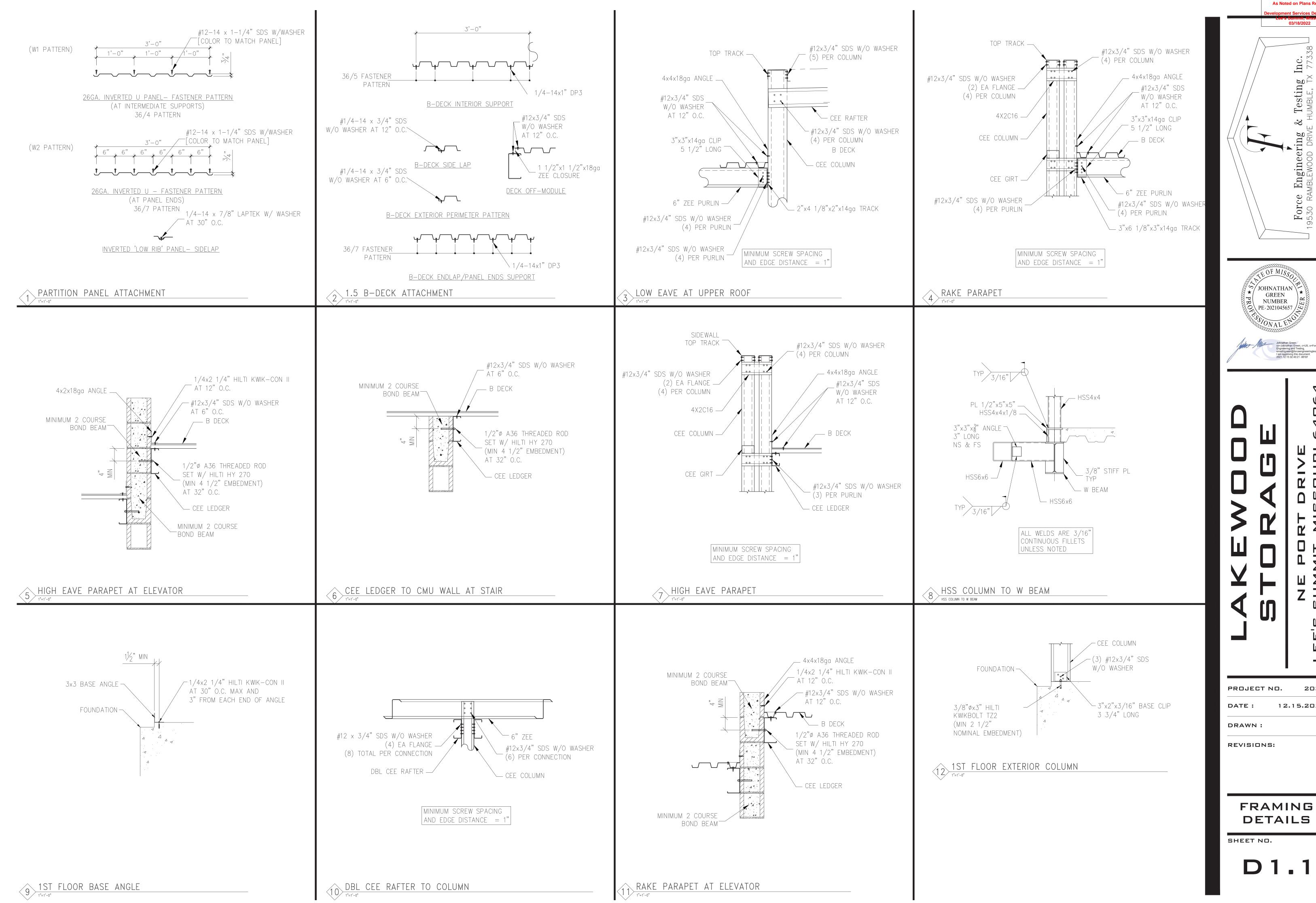
REVISIONS:

FRAMING PLANS

SHEET NO.

**58.**1





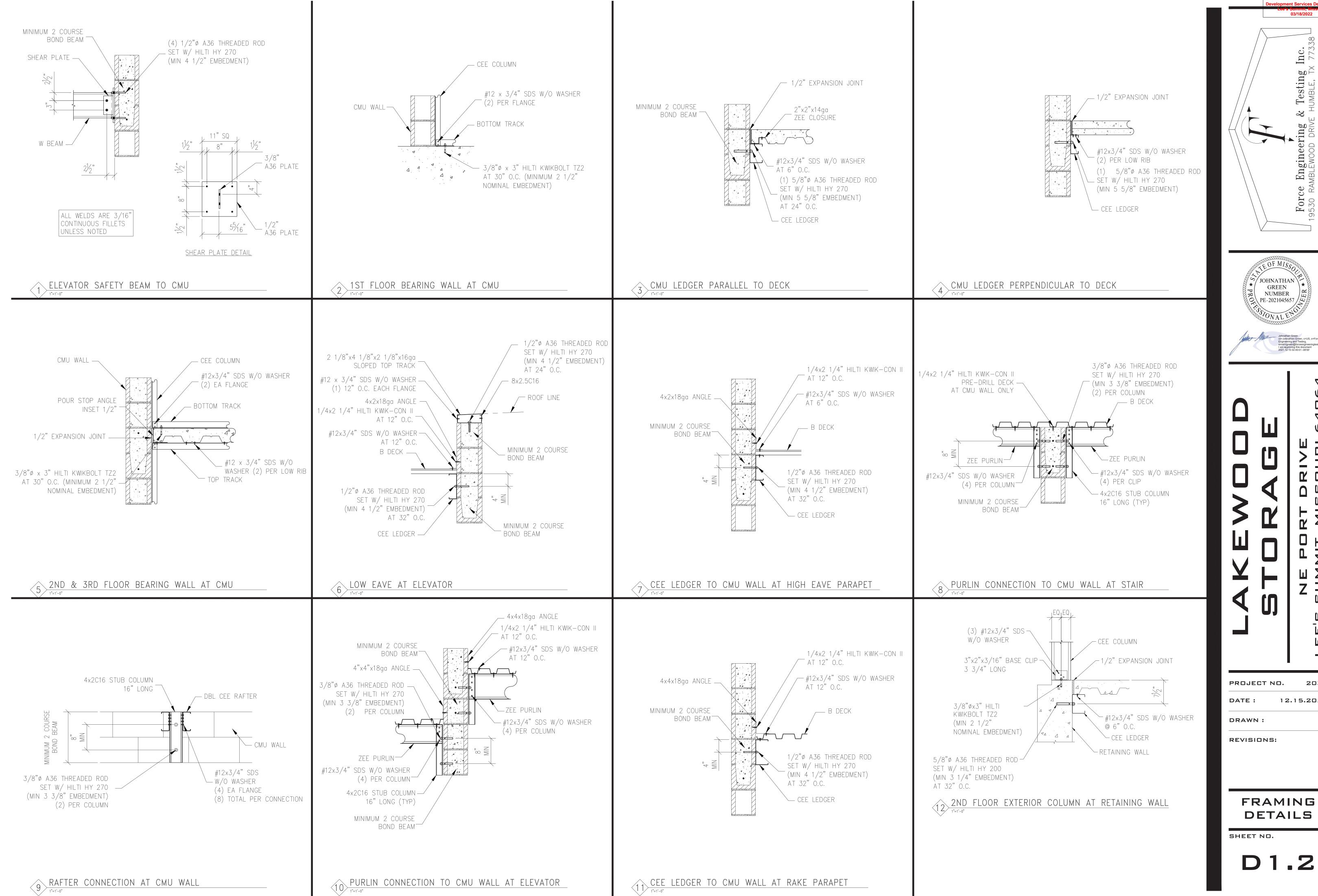
CONSTRUCTION
As Noted on Plans Review

RELEASED FOR

2035

12.15.2021

D1.1



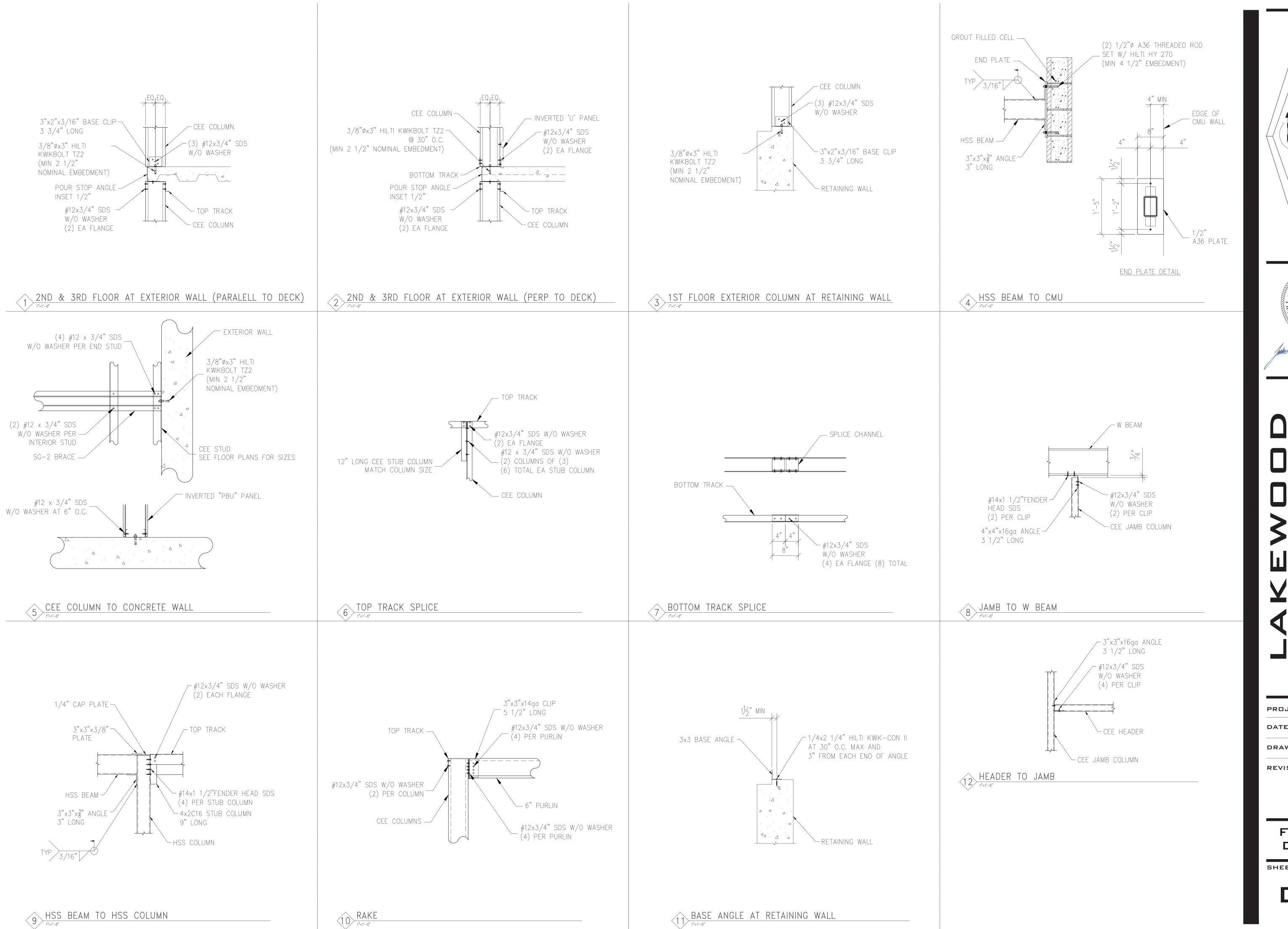
Z Z 2035 PROJECT NO. 12.15.2021

GREEN NUMBER

JOHNATHAN * GREEN NUMBER PE-2021045657

CONSTRUCTION
As Noted on Plans Review

RELEASED FOR



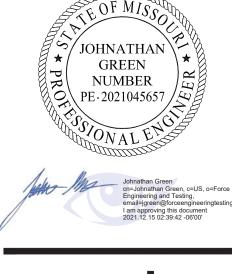
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As Noted on Plans Review

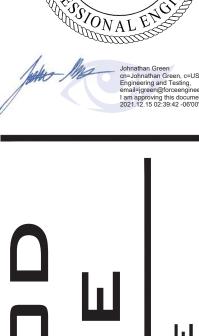
JOHNATHAN

GREEN

NUMBER

PE-2021045657





2035 PROJECT NO.

12.15.2021

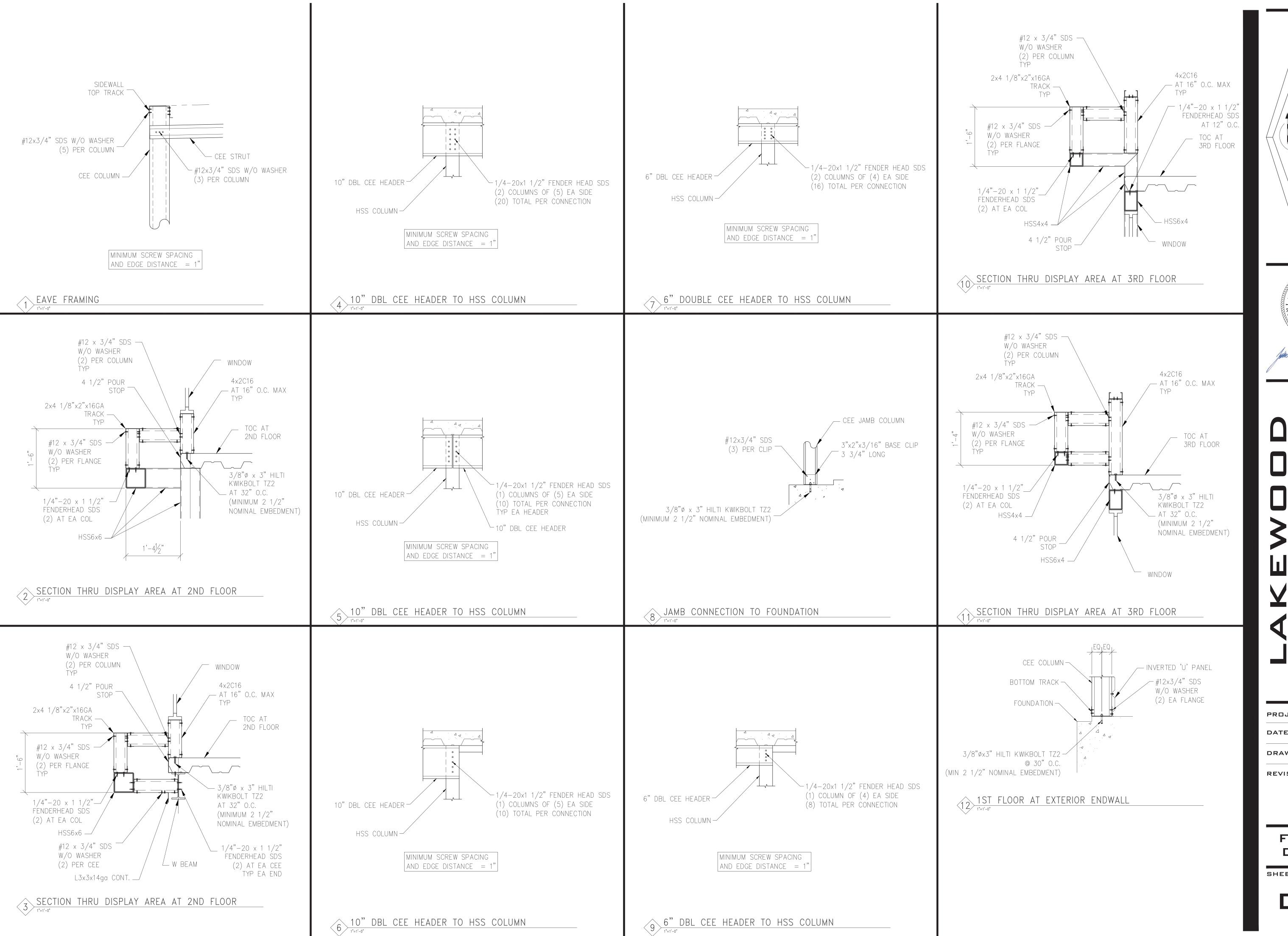
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REVISIONS:

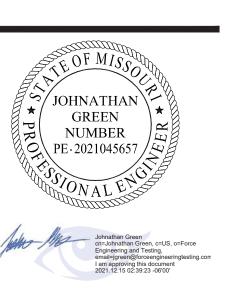
FRAMING DETAILS

SHEET NO.

D1.3



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CONSTRUCTION
As Noted on Plans Review



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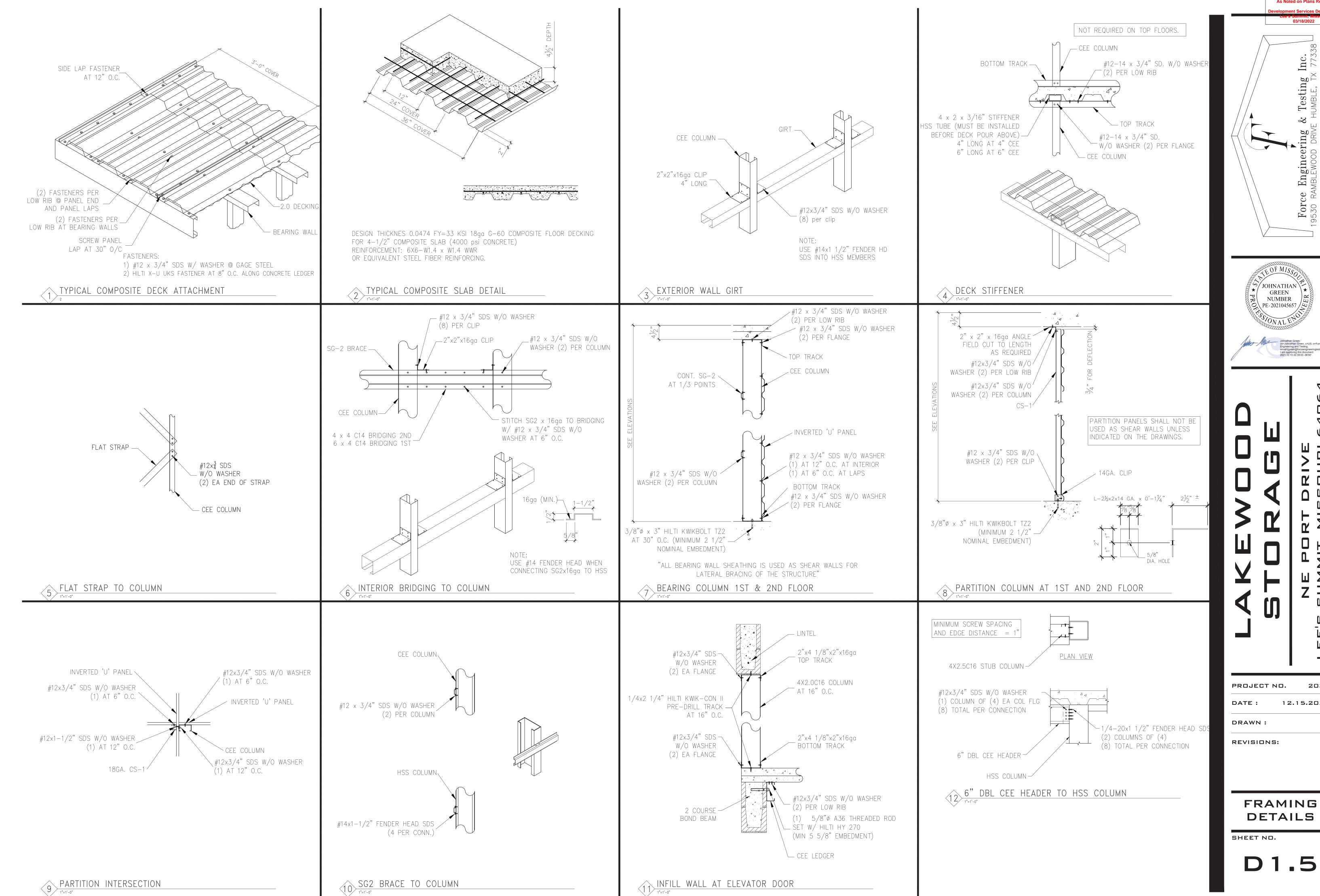
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REVISIONS:

FRAMING DETAILS

SHEET NO.

D1.4



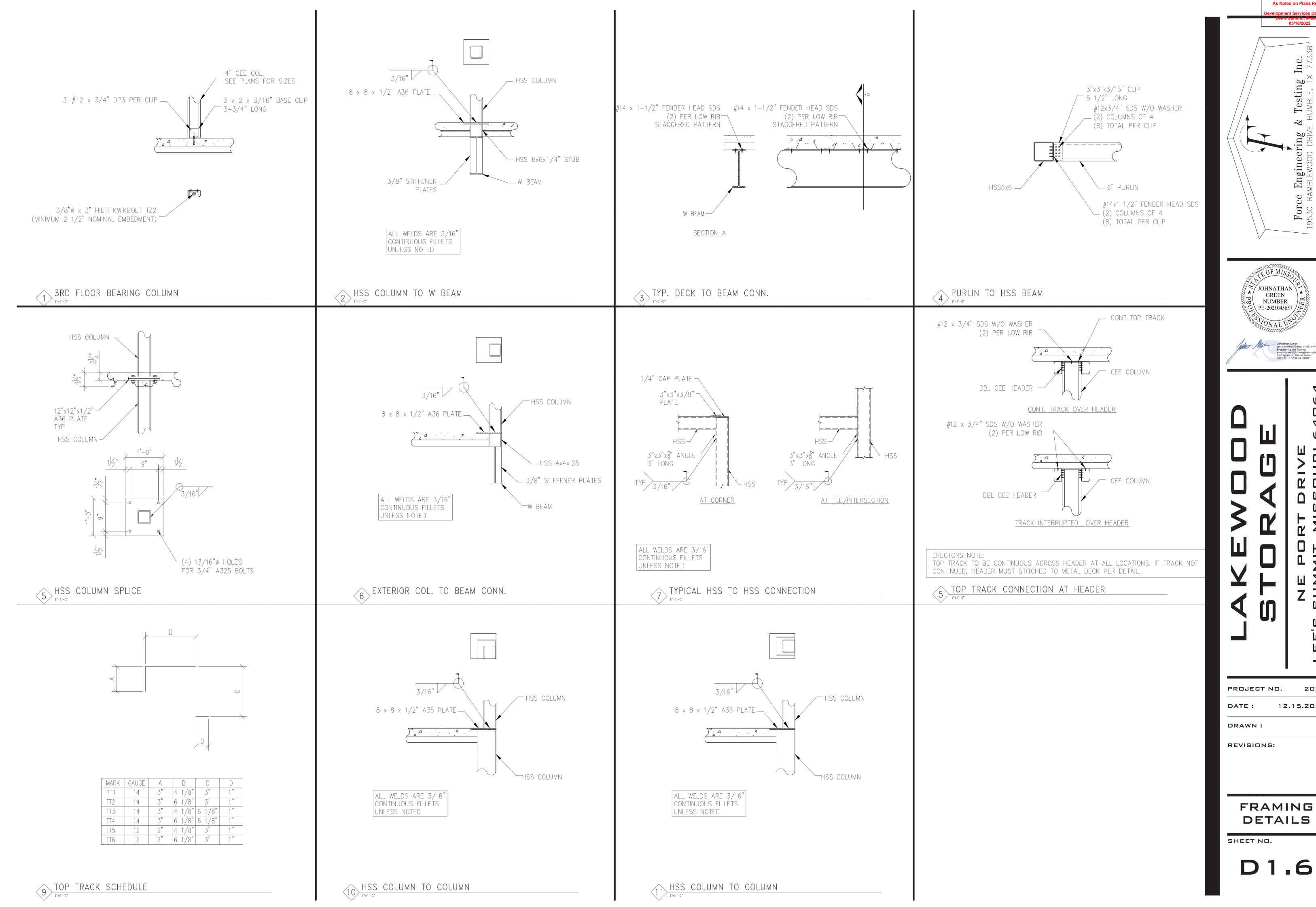
D1.5

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12.15.2021

RELEASED FOR CONSTRUCTION
As Noted on Plans Review



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CONSTRUCTION
As Noted on Plans Review

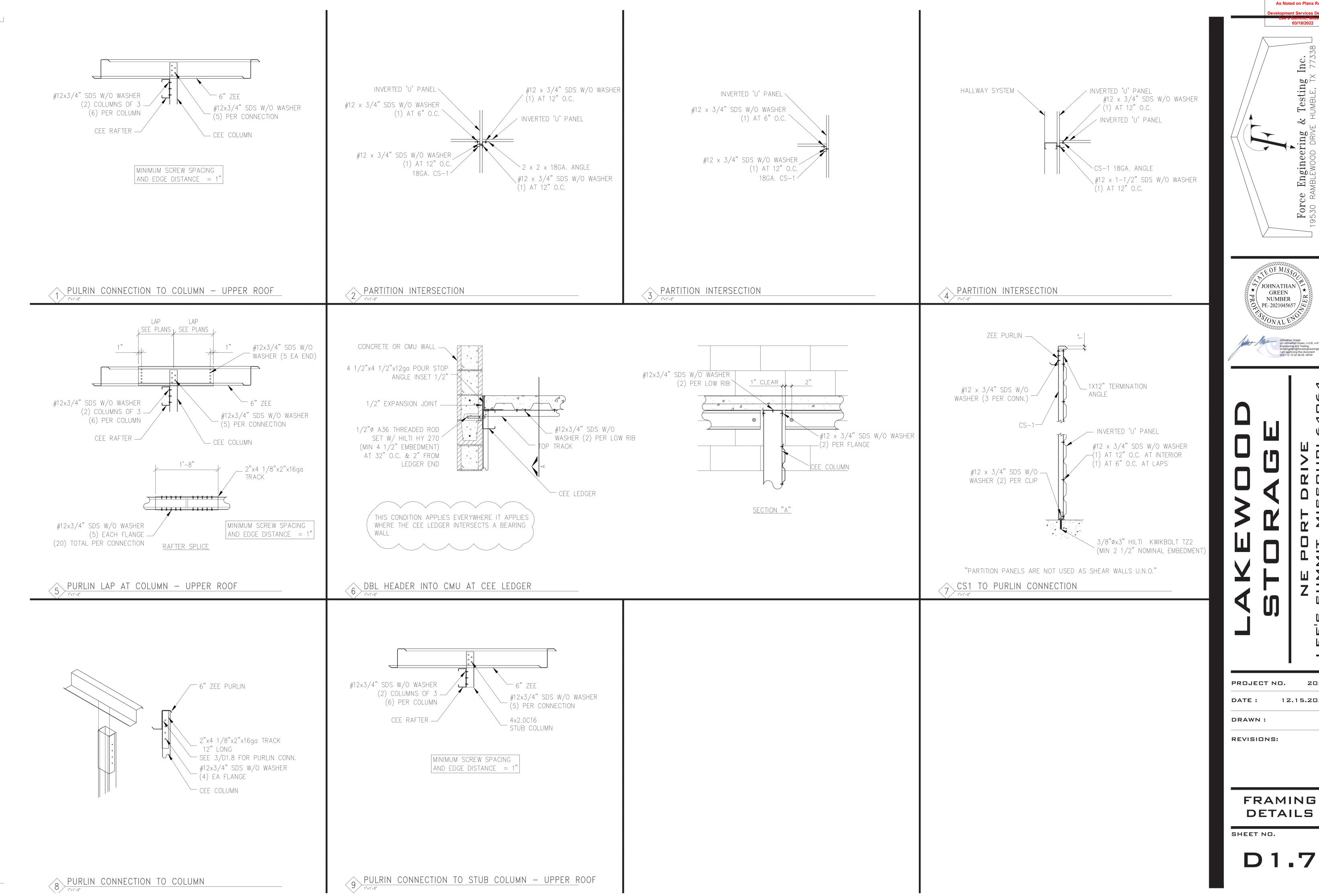
JOHNATHAN

GREEN
NUMBER
PE-2021045657

SHEET NO.

2035

12.15.2021

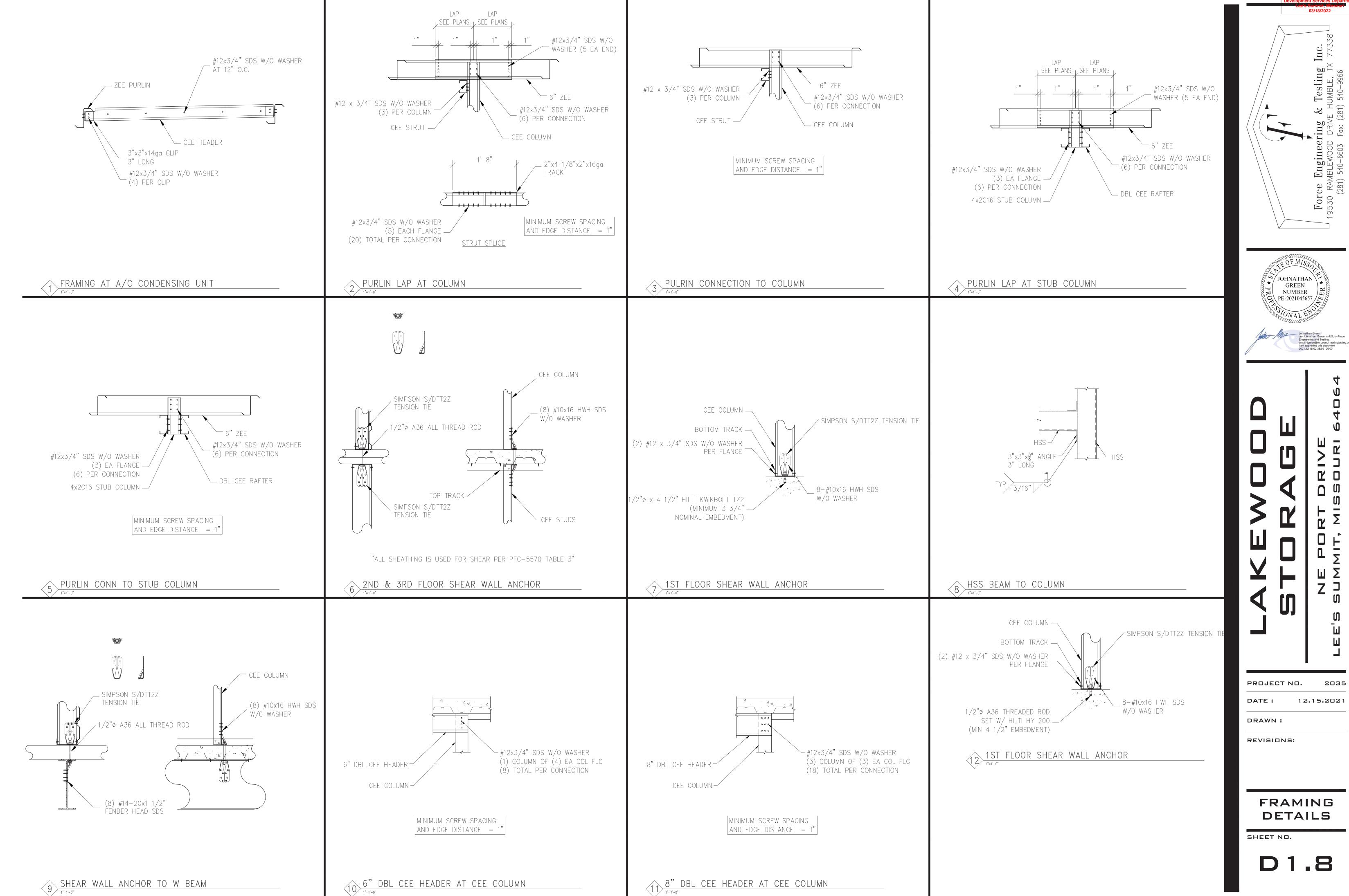


D1.7

2035

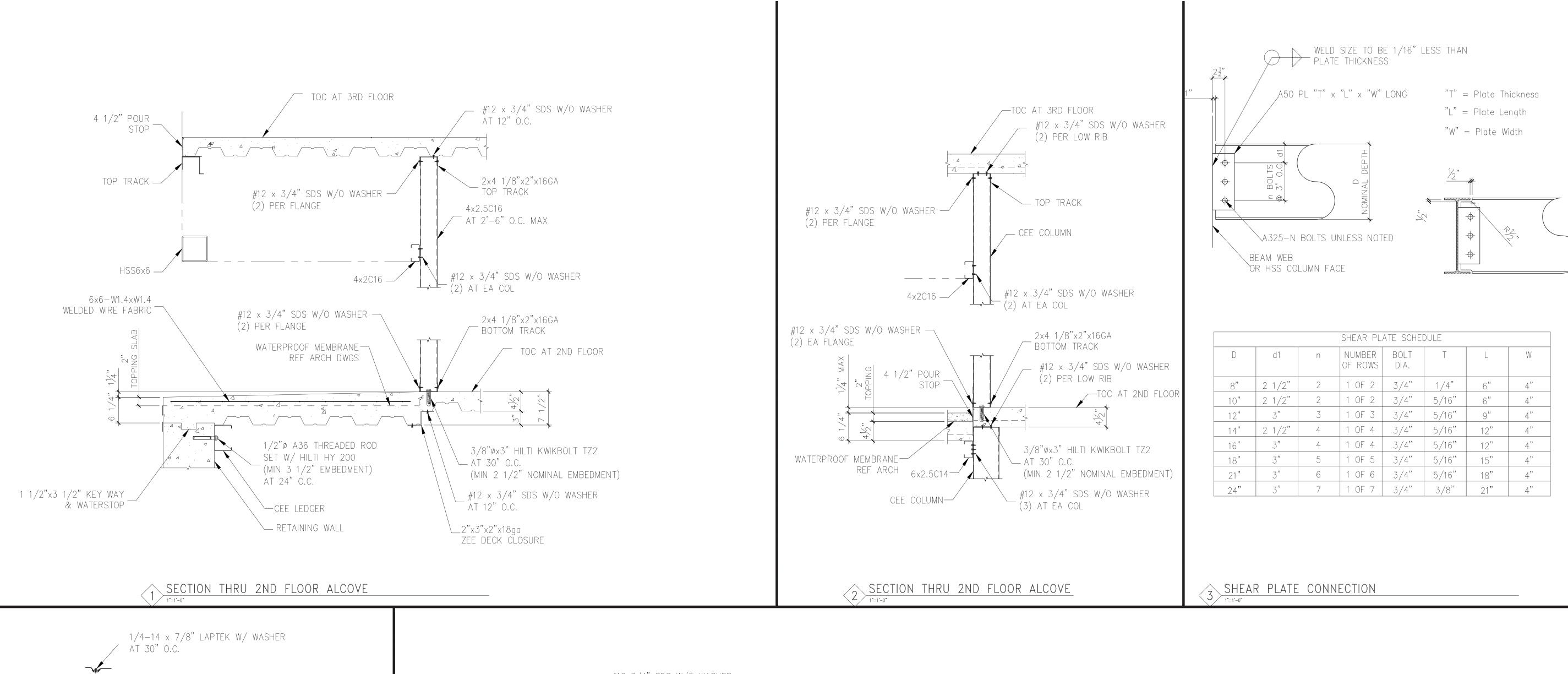
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CONSTRUCTION
As Noted on Plans Review

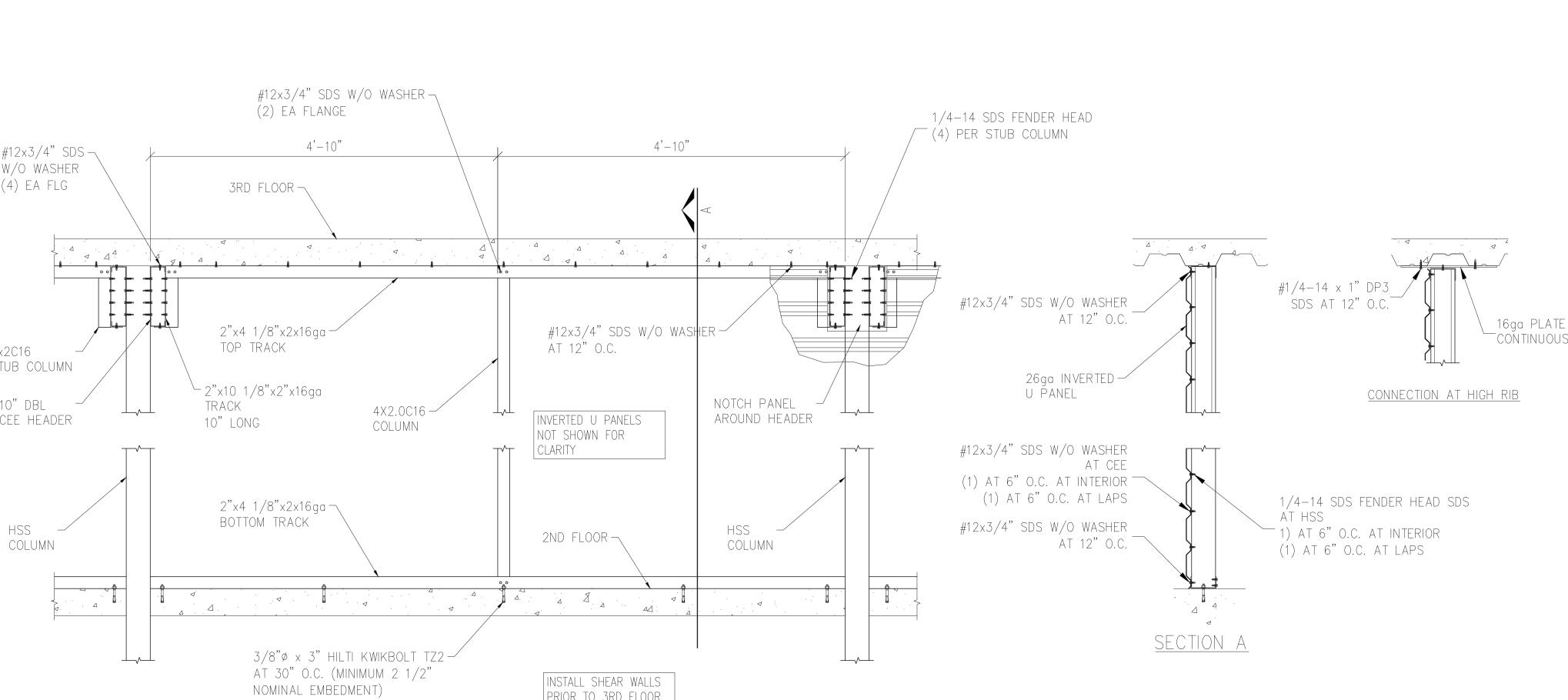


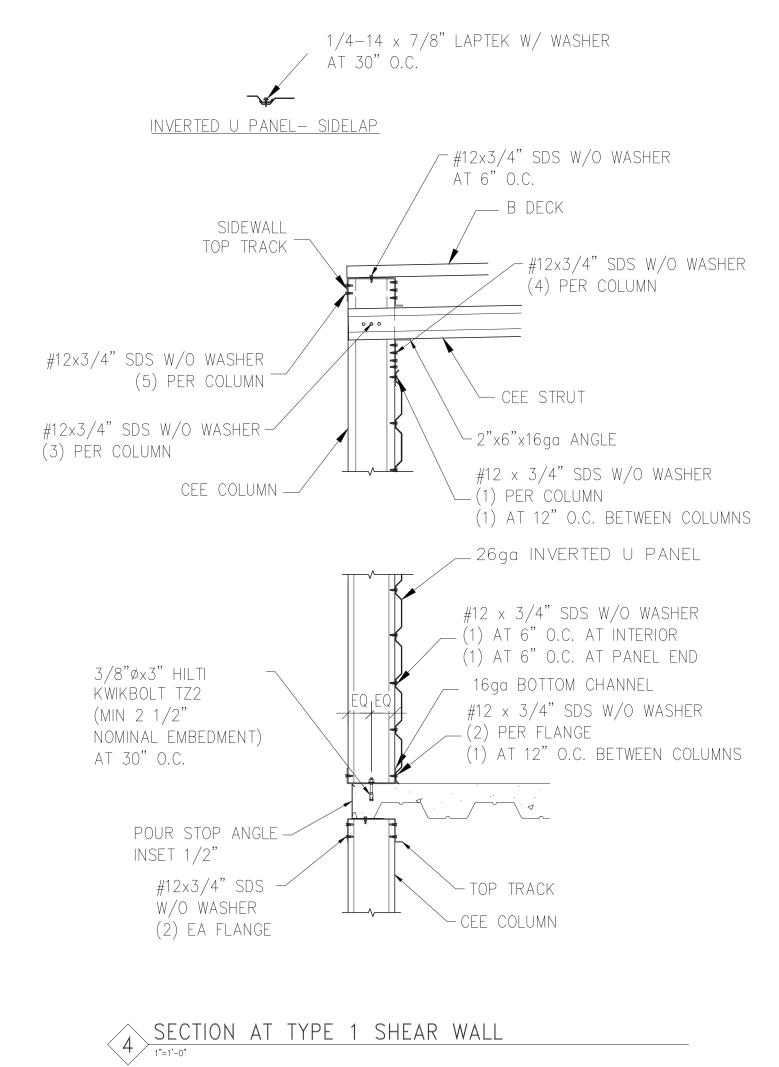
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As Noted on Plans Review

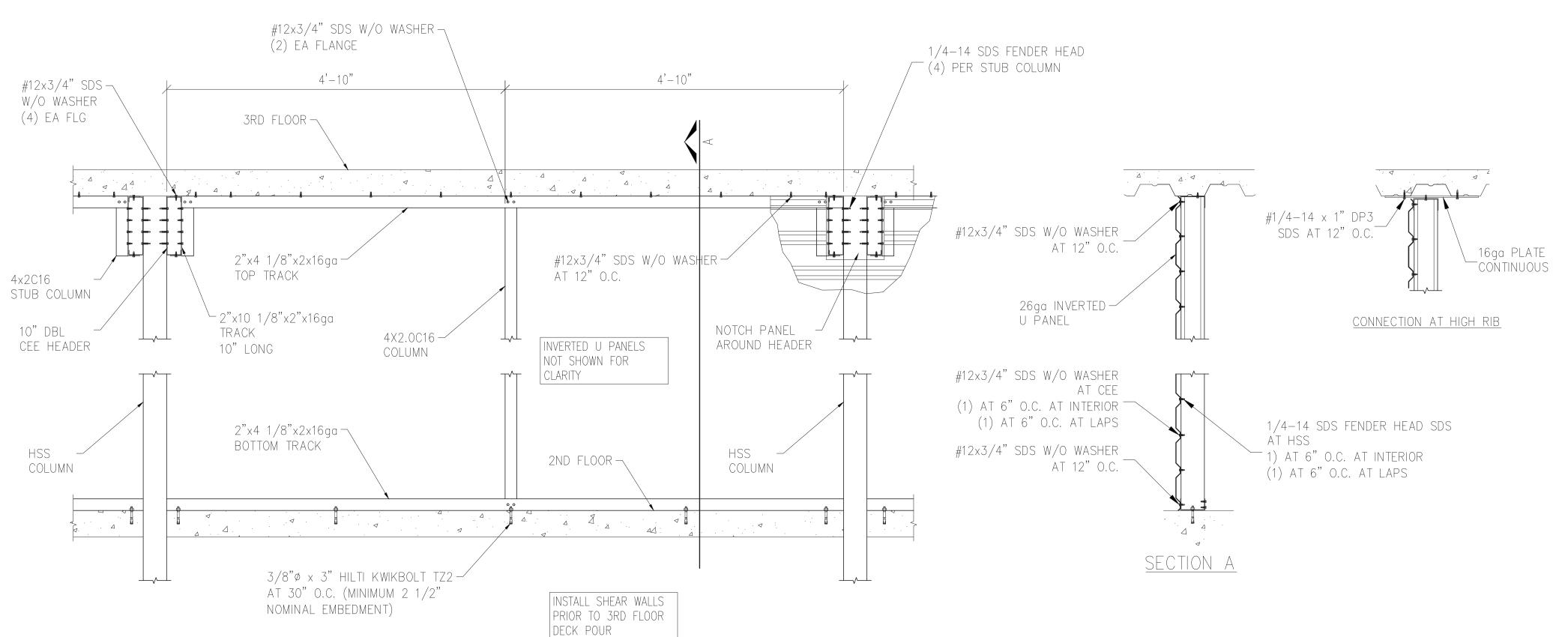




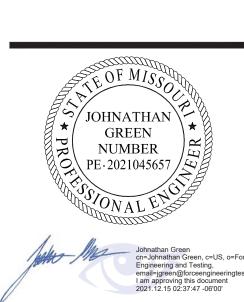
5 SECTION AT TYPE 2 SHEAR WALL







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As Noted on Plans Review



PROJECT NO. 2035

12.15.2021 DATE:

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REVISIONS:

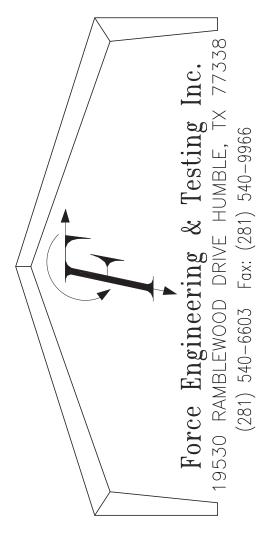
FRAMING DETAILS

SHEET NO.

D1.9

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CONSTRUCTION
As Noted on Plans Review

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## AKEWOOD STORAGE

PROJECT NO.

2035

DATE: 12.15.2021

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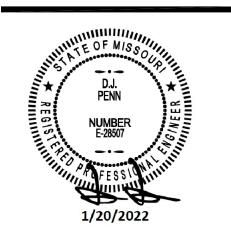
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REVISIONS:

FRAMING DETAILS

SHEET NO.

D1.10



DATE: 12.16.2021

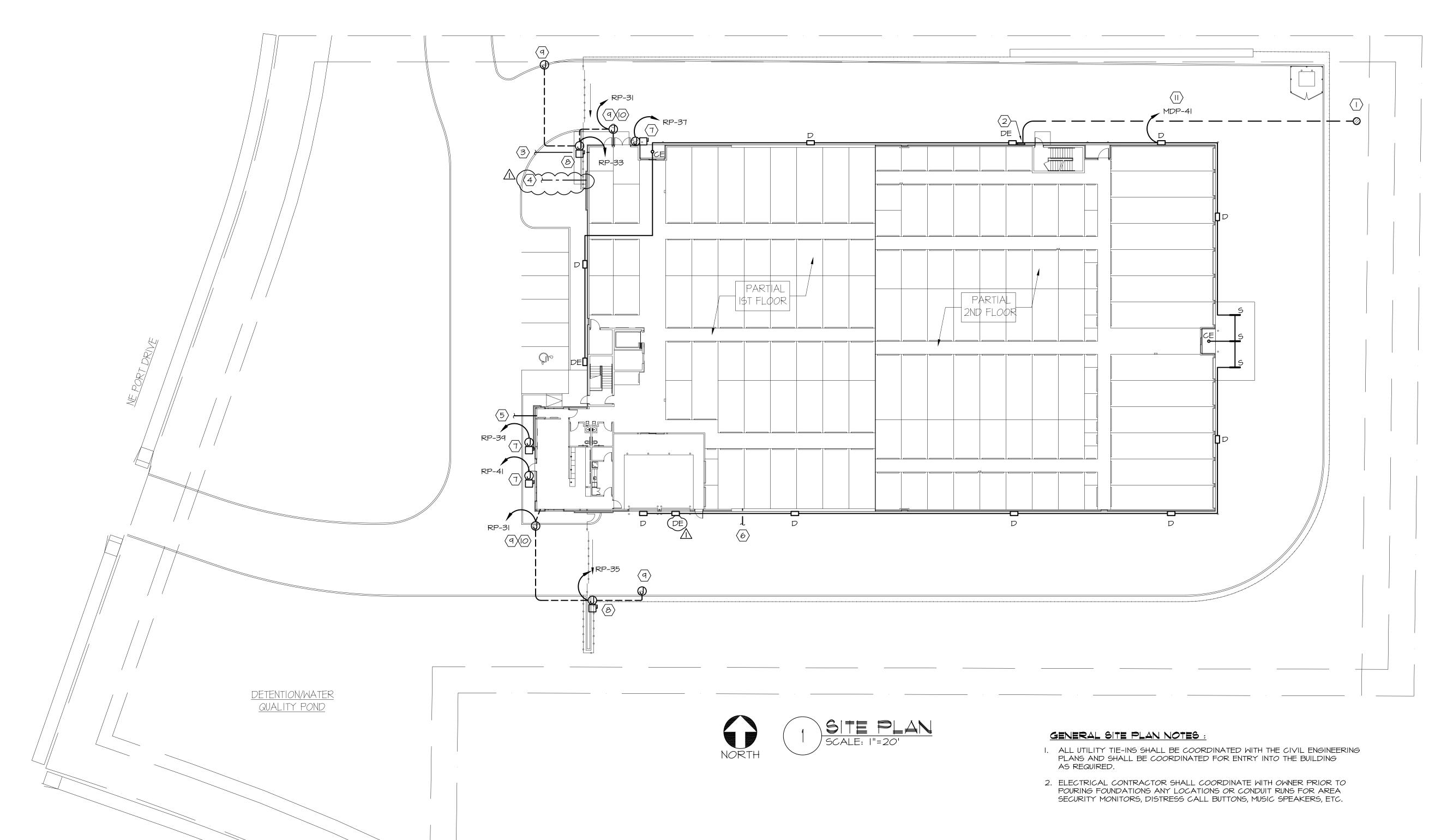
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DRAWN:

REVISIONS:

SITE PLAN

SHEET NO.



#### SITE PLAN KEYED NOTES :

- POLE MOUNTED TRANSFORMER, AS PER LOCAL UTILITY COMPANY SPECIFICATIONS, WITH UNDERGROUND POWER TO BUILDING. REFER TO SHEET E3.I
- (2) ELECTRICAL SERVICE ENTRANCE. REFER TO SHEET E3.1
- $\langle 3 \rangle$  6" FIRE LINE TO SPRINKLER ROOM. COORDINATE WITH CIVIL PLANS.
- 4 I" DOMESTIC WATER LINE. REFER TO CIVIL PLANS FOR CONTINUATION.
- $\langle 5 \rangle$  4" WASTE LINE TO SEWER. REFER TO CIVIL PLANS FOR CONTINUATION.
- 6 4" CONDENSATE WASTE LINE TO STORM. REFER TO CIVIL PLANS FOR CONTINUATION.
- J-BOX & 30A/2P/I2OV/NF/N-3R DISCONNECT SWITCH FOR BUILDING SIGN. FINAL CONNECTION BY ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATIONS WITH SIGN INSTALLER. RUN CIRCUIT THRU PHOTOCELL.
- (8) J-BOX & 30A/2P/I2OV/NF/N-3R DISCONNECT SWITCH FOR MOTORIZED GATE. COORDINATE LOCATION W/ INSTALLER.
- PROVIDE ONE (I) I" CONDUIT FOR UNDERGROUND DATA & 120V POWER FOR ENTRY KEYPADS. COORDINATE LOCATION ON-SITE.
- RUN ONE (I) EMPTY 2" CONDUIT W PULL STRING UNDERGROUND BETWEEN GATE OPERATOR AND BUILDING, AND ONE (I) I" EMPTY CONDUIT W/ PULLSTRING BETWEEN GATE CONTROLLER AND ASSOCIATED KEYPAD(S).
- RUN CIRCUIT SWITCHLEG THRU PHOTOCELL MOUNTED ON ROOF, WITH TIMECLOCK OVERRIDE. COORDINATE EXTERIOR LIGHTING WITH ARCHITECTURAL PLANS/ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.

1301 Solana Blvd. Bldg. 1, Suite 1420 Westlake, TX 76262 +1 817 410 2858





# AKEWOOD STORAGE

PROJECT NO. 2035

12.16.2021

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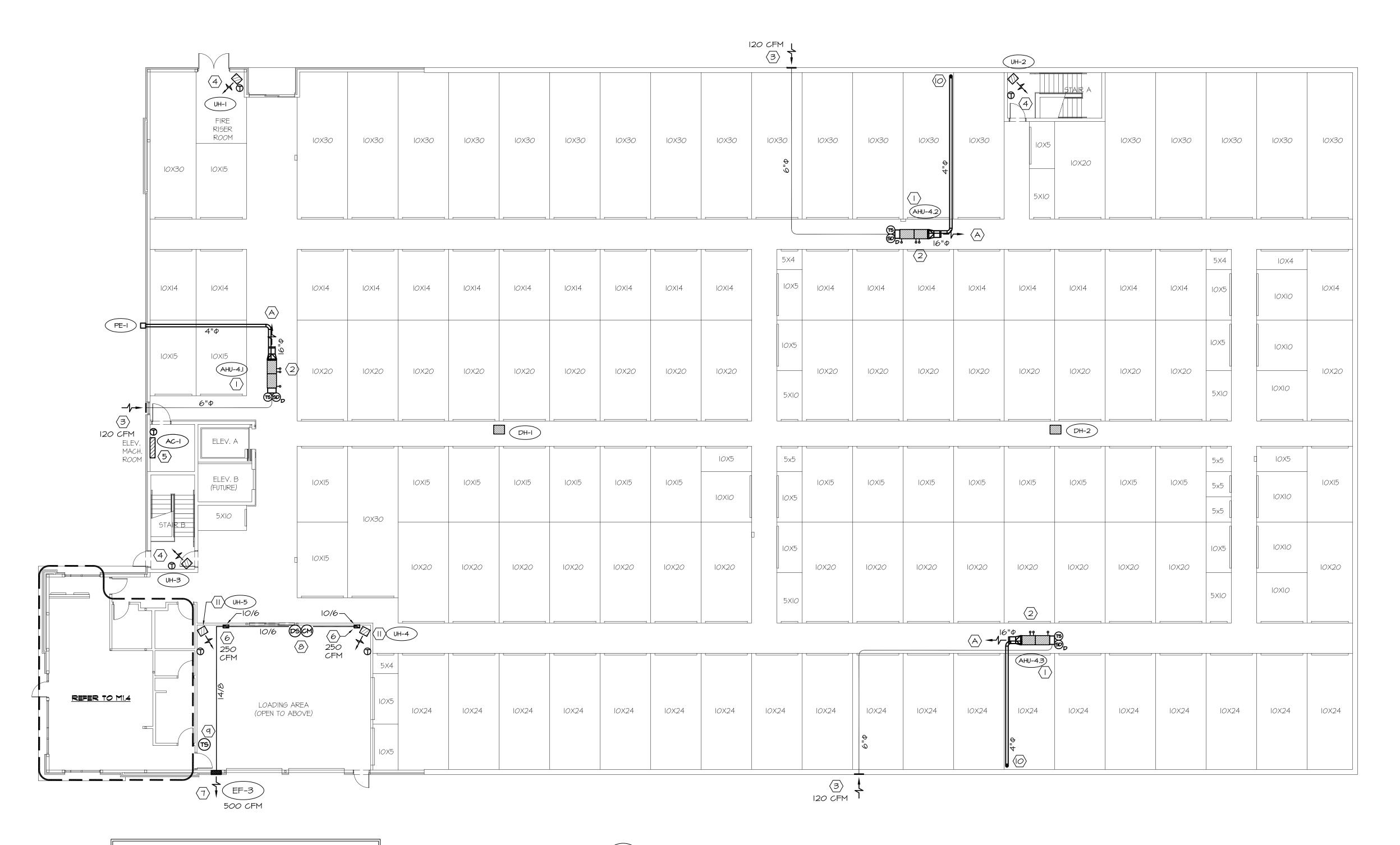
DATE:

REVISIONS:

1ST FLOOR MECHANICAL

SHEET NO.

M 1.1



#### COORDINATION NOTE:

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR.

ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC.

THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY.

#### GENERAL MECHANICAL NOTES :

- I. RUN REFRIGERANT LINES SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATION BASED ON THE FINAL ROUTING OF THE THE LINES FROM THE AHU TO CU LOCATED OUTSIDE. RUN DOWN IN WALL TO 24" A.F.G. & PENETRATE OUTSIDE WALL. PROVIDE WALLCAP & WEATHERPROOFING AT ENTRY POINT (QUICKFLASH #A/C U-B @ BRICK/STONE WALLS AND #A/C U-S @ METALS WALLS).
- RUN THE CONDENSATE DRAIN LINE FROM EACH AIR HANDLING UNIT TO HUB DRAIN LOCATED NEAR UNIT. COORDINATE LOCATION ON-SITE.
- 3. ALL DUCTWORK IN UN-CONDITIONED SPACES SHALL BE INSULATED AS PER INTERNATIONAL MECHANICAL CODE.

#### 

#### SE OF

- EXHAUST SYMBOLS :
- ARCHI
  SCREE

  NO2 DIESEL (NITROGEN DIOXIDE) SENSOR

  ARCHI
  SCREE
- TEST STATION

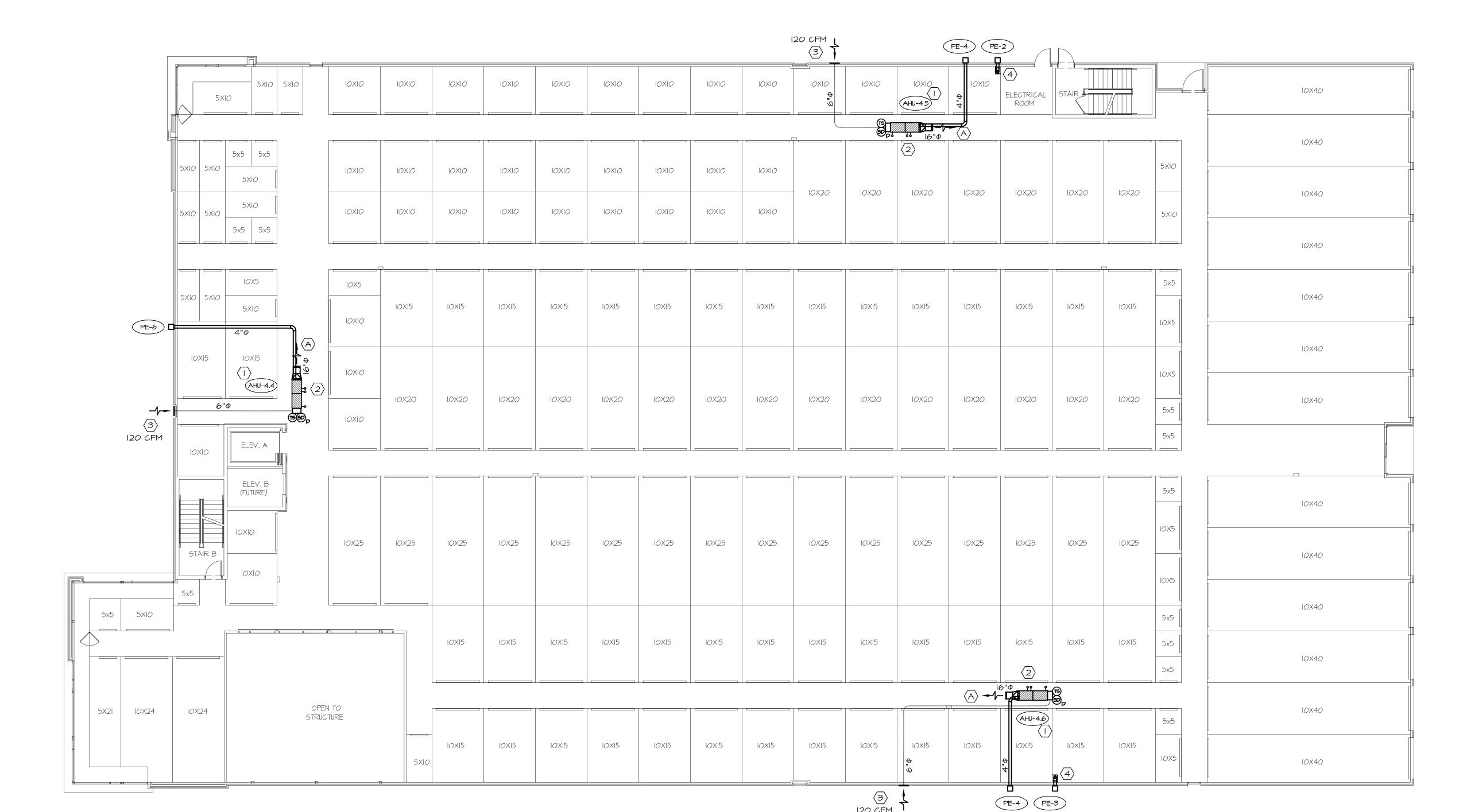
(M) CARBON MONOXIDE SENSOR

- (I) HANG AIR HANDLING UNIT HIGH IN CORRIDOR. PROVIDE A SHORT SECTION OF SUPPLY DUCT WITH GRILLE AS SPECIFIED ON OPENING. COORDINATE LOCATION OF HUMIDISTAT W/ PROJECT MANAGER ON-SITE. INSTALL SMOKE DETECTOR @ RETURN AIR.
- 2 RUN REFRIGERANT LINES TO CONDENSING UNIT OUTSIDE. COORDINATE LOCATION & ROUTING ON-SITE.

MECHANICAL KEYED NOTES :

- (3) 12/12 OUTSIDE AIR INTAKE LOUVER SHALL BE WEATHERPROOF & PAINTED TO MATCH ADJACENT SURFACE. COORDINATE WITH ARCHITECT. LOUVER SHALL BE PROVIDED W/ AN INSECT SCREEN & PLENUM. CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT. PROVIDE A MANUAL BALANCING DAMPER AND GRAVITY BACKDRAFT DAMPER IN THE DUCT. BALANCE THE OUTSIDE AIR CFM AS SCHEDULED.
- 4 MOUNT UNIT HEATER HIGH IN CORNER, COORDINATE LOCATION ON-SITE. THERMOSTAT SET TO MAINTAIN 45 DEGREES F. MINIMUM.
- MOUNT DUCT FREE A/C UNIT HIGH ON WALL. MOUNT THERMOSTAT @48" A.F.F. COORDINATE UNIT LOCATION WITH EQUIPMENT IN ROOM. RUN REFRIGERANT LINES TO CONDENSING UNIT OUTSIDE.

- (6) RUN NON-INSULATED SHEET METAL DUCT FOR FUME EXHAUST. RUN AS HIGH AS POSSIBLE. RUN EXPOSED ON WALL DOWN TO 2'-O" A.F.F. REFER TO DETAIL, SHEET M2.I
- RUN 14/10 NON-INSULATED SHEET METAL DUCT AS HIGH AS POSSIBLE TO EXHAUST FAN. PROVIDE TRANSITION DUCT AS REQUIRED. MAINTAIN 10'-0" CLEARANCE FROM ANY AIR INTAKE/MAKEUP. REFER TO DETAIL, SHEET M2.1
- MOUNT CARBON MONOXIDE & NITROGEN DIOXIDE SENSORS AT 2'-O" A.F.F. CONNECT TO BOTH EXHAUST FANS (EF-I & EF-2). IF ANY SENSORS IS ACTIVATED THEN BOTH FANS SHALL TURN ON.
- 9 PROVIDE A TEST STATION FOR THE SENSORS & EXHAUST FANS. THE SENSOR SUPPLIER SHALL COORDINATE THIS DESIGN. PROVIDE DESIGN FOR APPROVAL BY OWNER & ENGINEER PRIOR TO ANY WORK.
- $\langle IO \rangle$  4" $\phi$  FLUE UP TO 2ND FLOOR.
- MOUNT UNIT HEATER HIGH IN CORNER, COORDINATE LOCATION ON-SITE. THERMOSTAT SET TO MAINTAIN 45 DEGREES F. MINIMUM.



#### COORDINATION NOTE:

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR.

ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC. THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR

#### GENERAL MECHANICAL NOTES

SHALL COORDINATE CLOSELY.

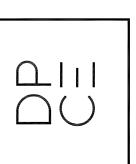
- I. RUN REFRIGERANT LINES SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATION BASED ON THE FINAL ROUTING OF THE THE LINES FROM THE AHU TO CU LOCATED OUTSIDE. RUN DOWN IN WALL TO 24" A.F.G. & PENETRATE OUTSIDE WALL. PROVIDE WALLCAP & WEATHERPROOFING AT ENTRY POINT (QUICKFLASH #A/C U-B @ BRICK/STONE WALLS AND #A/C U-S @ METALS WALLS).
- 2. RUN THE CONDENSATE DRAIN LINE FROM EACH AIR HANDLING UNIT TO HUB DRAIN LOCATED NEAR UNIT. COORDINATE LOCATION ON-SITE.
- 3. ALL DUCTWORK IN UN-CONDITIONED SPACES SHALL BE INSULATED AS PER INTERNATIONAL MECHANICAL CODE.

2ND FLOOR - MECHANICAL PLAN SCALE: 3/32"=1'-0"

120 CFM

#### MECHANICAL KEYED NOTES :

- (I) HANG AIR HANDLING UNIT HIGH IN CORRIDOR. PROVIDE A SHORT SECTION OF SUPPLY DUCT WITH GRILLE AS SPECIFIED ON OPENING. COORDINATE LOCATION OF HUMIDISTAT W/ PROJECT MANAGER ON-SITE. INSTALL SMOKE DETECTOR @ RETURN AIR.
- 2 RUN REFRIGERANT LINES TO CONDENSING UNIT OUTSIDE. COORDINATE LOCATION & ROUTING ON-SITE.
- (3) 12/12 OUTSIDE AIR INTAKE LOUVER SHALL BE WEATHERPROOF \$ PAINTED TO MATCH ADJACENT SURFACE. COORDINATE WITH ARCHITECT. LOUVER SHALL BE PROVIDED W AN INSECT SCREEN & PLENUM. CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT. PROVIDE A MANUAL BALANCING DAMPER AND GRAVITY BACKDRAFT DAMPER IN THE DUCT. BALANCE THE OUTSIDE AIR CFM AS SCHEDULED.
- $\langle 4 \rangle$  4" $\phi$  FLUE UP FROM IST FLOOR.





PROJECT NO. 2035

DATE: 12.16.2021

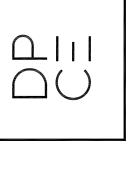
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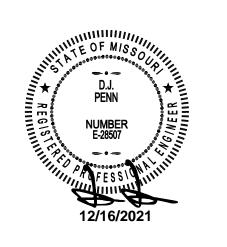
REVISIONS:

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2ND FLOOR MECHANICAL

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PROJECT NO. 2035

12.16.2021

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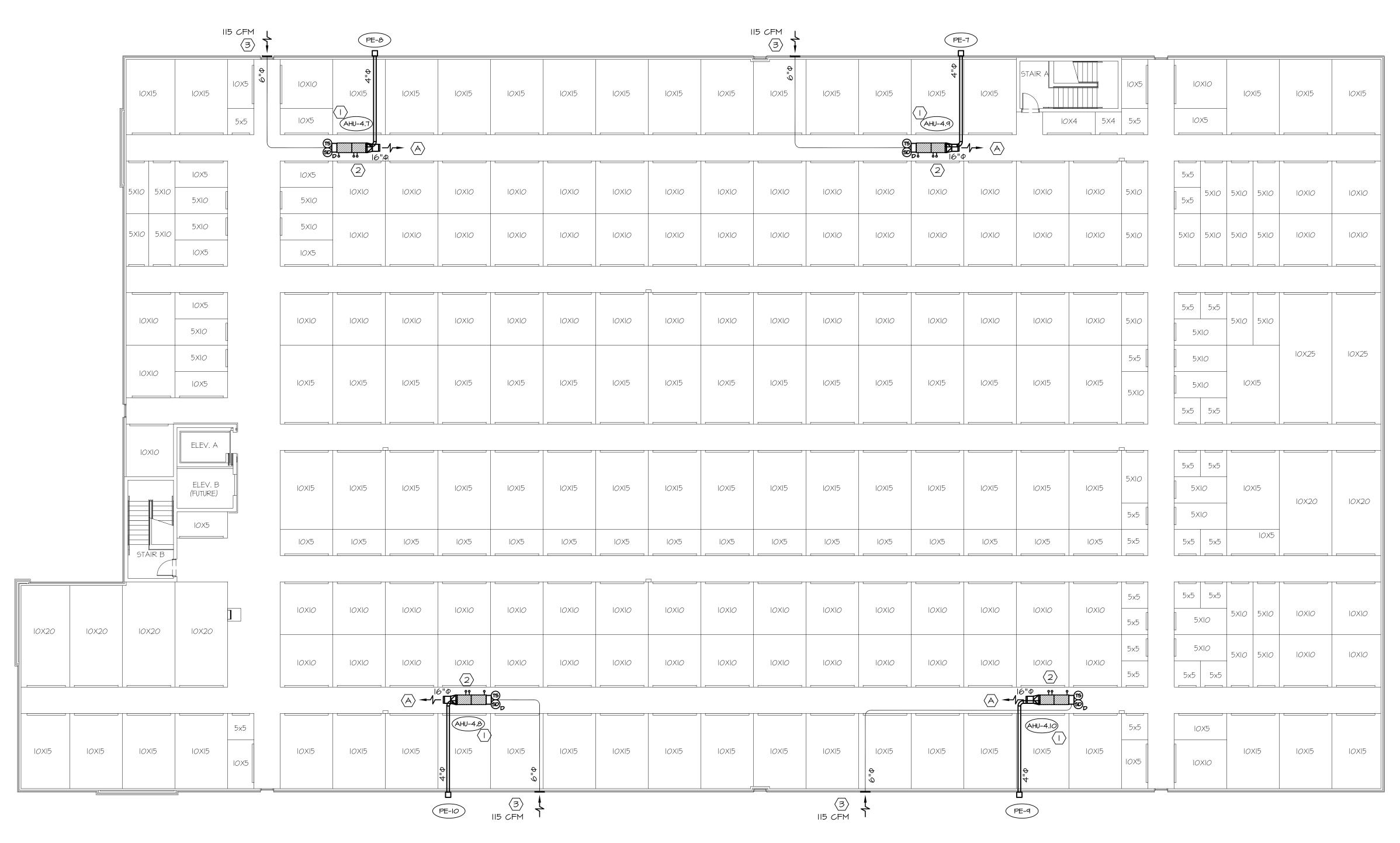
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REVISIONS:

3RD FLOOR MECHANICAL

SHEET NO.

И1.З



#### COORDINATION NOTE:

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR.

ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC.

THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY.

#### GENERAL MECHANICAL NOTES :

- I. RUN REFRIGERANT LINES SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATION BASED ON THE FINAL ROUTING OF THE THE LINES FROM THE AHU TO CU LOCATED OUTSIDE. RUN DOWN IN WALL TO 24" A.F.G. & PENETRATE OUTSIDE WALL. PROVIDE WALLCAP & WEATHERPROOFING AT ENTRY POINT (QUICKFLASH #A/C U-B @ BRICK/STONE WALLS AND #A/C U-S @ METALS WALLS).
- RUN THE CONDENSATE DRAIN LINE FROM EACH AIR HANDLING UNIT TO HUB DRAIN LOCATED NEAR UNIT. COORDINATE LOCATION ON-SITE.
- 3. ALL DUCTWORK IN UN-CONDITIONED SPACES SHALL BE INSULATED AS PER INTERNATIONAL MECHANICAL CODE.

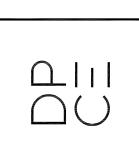
### | 3RD | LOOR = MECHANICAL PLAN | SCALE: 3/32"=1'-0"

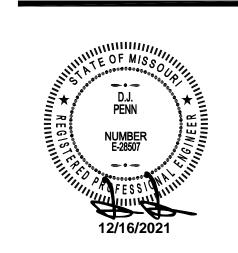
#### MECHANICAL KEYED NOTES :

- (I) HANG AIR HANDLING UNIT HIGH IN CORRIDOR. PROVIDE A SHORT SECTION OF SUPPLY DUCT WITH GRILLE AS SPECIFIED ON OPENING. COORDINATE LOCATION OF HUMIDISTAT W/ PROJECT MANAGER ON-SITE. INSTALL SMOKE DETECTOR @ RETURN AIR.
- 2 RUN REFRIGERANT LINES TO CONDENSING UNIT OUTSIDE. COORDINATE LOCATION & ROUTING ON-SITE.

GRAVITY BACKDRAFT DAMPER IN THE DUCT. BALANCE THE OUTSIDE AIR CFM AS SCHEDULED.

3 I2/I2 OUTSIDE AIR INTAKE LOUVER SHALL BE WEATHERPROOF & PAINTED TO MATCH ADJACENT SURFACE. COORDINATE WITH ARCHITECT. LOUVER SHALL BE PROVIDED W/ AN INSECT SCREEN & PLENUM. CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT. PROVIDE A MANUAL BALANCING DAMPER AND





PROJECT NO. 2035 DATE: 12.16.2021

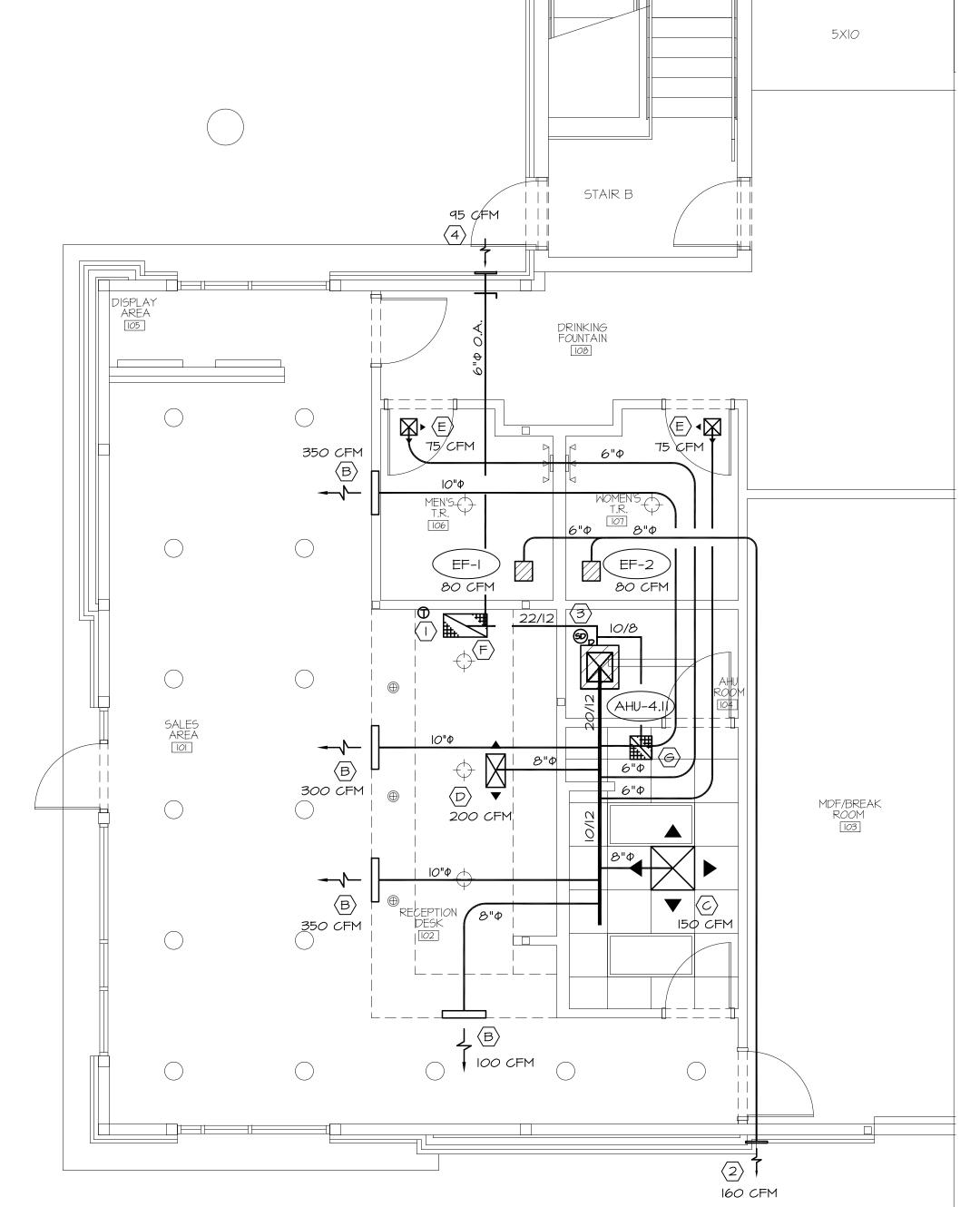
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DRAWN:

REVISIONS:

OFFICE MECHANICAL

SHEET NO.



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

#### GENERAL MECHANICAL NOTES :

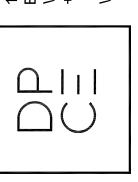
- I. RUN REFRIGERANT LINES SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATION BASED ON THE FINAL ROUTING OF THE THE LINES FROM THE AHU TO CU LOCATED OUTSIDE. RUN DOWN IN WALL TO 24" A.F.G. & PENETRATE OUTSIDE WALL. PROVIDE WALLCAP & WEATHERPROOFING AT ENTRY POINT (QUICKFLASH #A/C U-B @ BRICK/STONE WALLS AND #A/C U-S @ METALS WALLS).
- RUN THE CONDENSATE DRAIN LINE FROM AIR HANDLING UNIT TO FLOOR SINK LOCATED NEAR BY.
- 3. ALL DUCTWORK IN UN-CONDITIONED SPACES SHALL BE INSULATED AS PER INTERNATIONAL MECHANICAL CODE.
- 4. EXPOSED DUCTWORK SHALL BE PAINTED TO MATCH CEILING STRUCTURE. COORDINATE WITH ARCHITECTURAL PLANS.

#### MECHANICAL KEYED NOTES :

- COORDINATE LOCATION OF THERMOSTAT W/ PROJECT MANAGER ON-SITE. MOUNT @48" A.F.F.
- 2) 12/12 EXHAUST LOUVER. LOUVER SHALL BE WEATHERPROOOF, PAINTED TO MATCH ADJACENT SURFACE & PROVIDE WITH INSECT SCREEN.
- 3 PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT.
- 4 12/12 OUTSIDE AIR INTAKE LOUVER SHALL BE WEATHERPROOF & PAINTED TO MATCH ADJACENT SURFACE. COORDINATE WITH ARCHITECT. LOUVER SHALL BE PROVIDED W/ AN INSECT SCREEN & PLENUM. CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT. PROVIDE A MANUAL BALANCING DAMPER AND GRAVITY BACKDRAFT DAMPER IN THE DUCT. BALANCE THE OUTSIDE AIR CFM AS SCHEDULED.

1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
+1 817 410 2858

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# AKEWOOD STORAGE

PROJECT NO. 2035

DATE: 12.16.2021

DJP

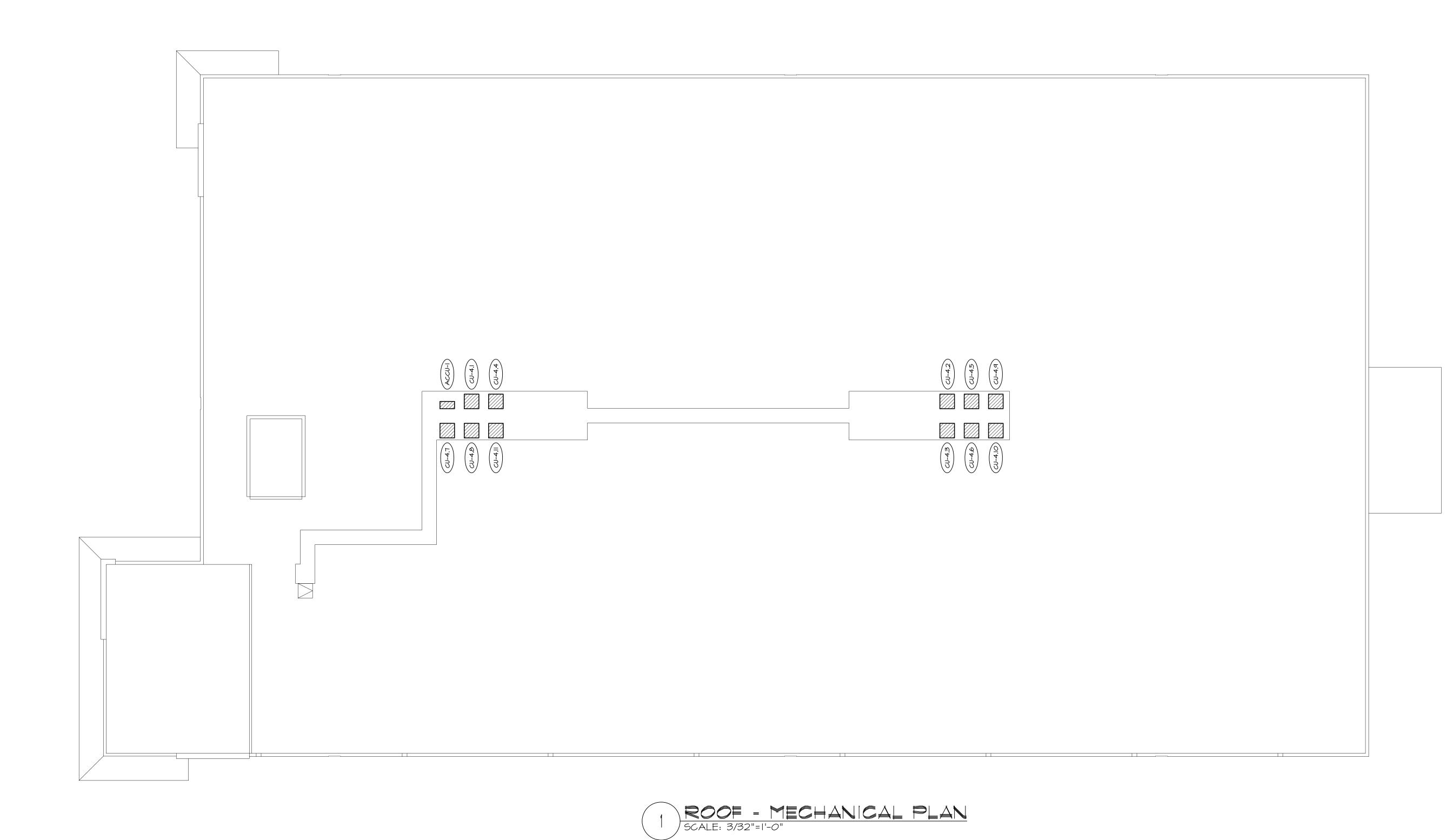
DRAWN:

REVISIONS:

ROOF MECHANICAL

SHEET NO.

M 1.5



RELEASED FOR CONSTRUCTION

12.16.2021

DJP

DATE:

DRAWN:

REVISIONS:

**MECHANICAL** SCHEDULES

SHEET NO.

CONDENSING UNI	T SCHEDULE
MARK	CU-4.1 thru 4.11
TYPE	AIR COOLED
MIN. CAPACITY (MBTUH)	48
VOLTS/PHASE	480/3
MIN. CIRCUIT AMPACITY	9
MAX. OVERCURRENT PROTECTION	15
AIR COOLED CONDENSER	
AMBIENT TEMP. (F°)	95
MANUFACTURER	RHEEM
MODEL	RAI448ADINB
SEER	14.0
OPERATING WEIGHT	221
NOTES	l

I. ALL REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.

FAN	SCHEDULE	
MARK	EF - I & 2	EF-3
SERVICE	EXHAUST	EXHAUST
CONTROL	SMITCH	REFER TO GARAGE EXHAUST
TYPE	CEILING MOUNTED	WALL
AIR FLOW (CFM)	80	400-940
TOTAL S. P. (IN. W.G.)	0.50	1.1
SOUND CRITERIA (SONES)	3.4	XXXX
DRIVE TYPE	DIRECT	DIRECT
FAN SPEED (RPM)	1000	1725
MOTOR SIZE	100 WATTS	I/2 HP
VOLTS - PHASE	120/1	120/1
MANUFACTURER	COOK	GREENHECK
MODEL	GC-144	SEI-14-436-VG
APPROX WEIGHT (LBS)	15	35
NOTES:	1,2,3	REFER TO GARAGE EXHAUST

- I. PROVIDE UNIT W GRAVITY BACKDRAFT DAMPER.
- 2. UNIT TO BE PROVIDED WITH FACTORY "PREWIRED" APPROVED MOTOR DISCONNECT DEVICES & MOTOR
- OVERLOAD PROTECTION. 3. UNIT CONTROLLED WITH LIGHTS IN ROOM.

#### FURNACE POWER EXHAUST

STRUCTURE -

COOLING COIL -

ROUND DUCT

EYE-BALL LOUVER

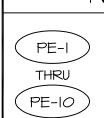
AS SCHEDULED -

TRANSITION TO -

CONDENSATE DRAIN

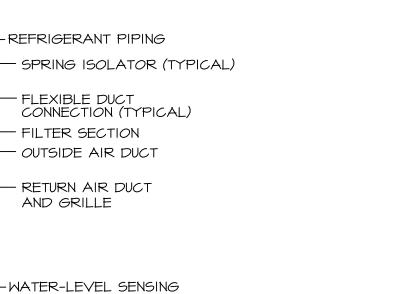
3/4" TELL-TALE —

CONDENSATE DRAIN



FIELD CONTROLS #PVG-100 4" VENT: UP TO 100,000 BTU INPUT @ 550°F 115V/1Φ, 2.1 AMPS





- FILTER SECTION

- OUTSIDE AIR DUCT

- RETURN AIR DUCT

AND GRILLE

ALARM (UL-504)

-SECONDARY DRAIN PAN SUSPENDED FROM UNIT

CONTRACTOR SHALL INSTALL A DEHUMIDIFIER	
HIGH ABOVE STORAGE UNIT.	
FRAL #FDK-1005; 1100 CFM, 1500 W @ 208V/14.	

AIR HANDLING UNIT DETAIL

#### AIR HANDLING UNIT SCHEDULE MARK AHU-4.1 thru 4.10 TYPE HORIZONTAL VERTICAL SUPPLY AIR FLOW (CFM) 1600 1600 EXT. STATIC PRESS. (IN.WG.) 0.48 0.48 DRIVE TYPE DIRECT DIRECT FAN SPEED (RPM) HIGHHIGHMOTOR SIZE (HP) 3/4 3/4 COOLING COIL TYPE DX DX MIN. SENSIBLE CAPACITY (MBH) 34 MIN. TOTAL CAPACITY (MBH) 46 46 ENT. DRY BULB TEMP. (F) 80 80 ENT. WET BULB TEMP. (F) 67 MINIMUM ROWS MAXIMUM FINS PER INCH HEATING GAS INPUT (MBH) GAS OUTPUT (MBH) 60 60 VOLTS - PHASE 115/1 115/1 MINIMUM CIRCUIT AMPS MAX. OVERCURRENT PROTECTION MANUFACTURER RHEEM RHEEM COOLING COIL MODEL RCFP-HM4824CC RCFP-HM4824CC HORIZONTAL ADAPTER RXHH-A04 RXHH-A04 FURNACE MODEL NO. R802T-A075417MXA R802T-A075417MXA OPERATING WEIGHT 215 215

#### 1. FURNISH FULLY AUTOMATIC HUMIDISTAT WITH AUTO-CHANGEOVER.

- 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
- 3. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT AND CONNECT TO LOCAL FIRE ALARM ANNUNCIATOR.
- 4. LONG LINE SETS MAY BE REQUIRED.

#### GARAGE EXHAUST

THE GARAGE EXHAUST FAN SHALL BE MOUNTED HIGH ON THE WALL & MAINTAIN 10'-0" FROM ANY AIR INTAKE. THE EXHAUST FAN SHALL BE WALL MOUNTED & PROVIDED W/ A WEATHERHOOD

CONTROLS SHALL COMPLY WITH 2018 IBC \$ 2018 IMC. CARBON MONOXIDE & NITROGEN DIOXIDE SENSORS SHALL BE

THE FAN SHALL HAVE 2 SPEEDS. WHEN THE LIGHTS ARE "ON", THE FAN SHALL RUN ON LOW SPEED. WHEN THE CARBON MONOXIDE OR NITROGEN DIOXIDE DETECTORS ARE ACTIVATED, THE EXHAUST

TO THE ARCHITECT & OWNER FOR APPROVAL PRIOR TO ORDERING OR ANY WORK. THE FANS MUST BE APPROVED

W/ BIRDSCREEN, A GRAVITY DAMPER & AN INTERIOR GUARD.

UL-2075 LISTED.

FAN SHALL RUN AT HIGH SPEED (0.75 CFM/SF EXHAUST).

THE CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL FANS BY ARCHITECT/ OWNER PRIOR TO ANY WORK.

## ← PROVIDE AN EXPANDED METAL COVER OVER OPENING. FLOOR



#### INDOOR UNIT #MSY-D30NA-8; I AMP OUTDOOR UNIT #MUY-D3ONA-I; (2ΙΑ MCA) 25A/2*08*V/ΙΦ UNIT HEATER

MECHANICAL/SERVICE WATER SYSTEMS FUNCTIONAL TESTING/COMMISSIONING

THE CONTRACTOR SHALL COMPLETE THE TASKS BELOW TO COMMISSION THE MECHANICAL AND SERVICE WATER SYSTEMS AND CONTROL SYSTEM AND SUBMIT WRITTEN DOCUMENTATION

DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE

DETAILING THE TASKS BELOW. FOR EACH TASK, LIST THE DATE PERFORMED, PERSON

COMPLETING THE TASK, THE INITIAL SETTING/CONDITION, LIST OF SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND DESCRIPTION OF OF THE TESTS TO BE

I. ENSURE ALL MECHANICAL SYSTEMS AND WATER SYSTEMS INSTALLED AND ARE

3. TEST ALL AIR DEVICES, SUPPLY AND RETURN DUCT AIR FLOWS, FAN MOTORS AMPS. 4. ENSURE THERMOSTATS, TEMPERATURE SENSORS, ECONOMIZERS, SERVICE WATER

HEATING CONTROL SYSTEMS ARE CALIBRATED AND FUNCTIONAL AND OPERATE IN

AIR BALANCING IN ACCORDANCE WITH CHAPTER 6 OF THE IMC CODE AND COMPLY

6. EQUIPMENT SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS.

5. ENSURE AIR OUTLETS AND ZONE TERMINAL DEVICES ARE EQUIPPED WITH MEANS OF

X ACCU-I

PERFORMED, ACTIONS PERFORMED, AND FINAL SETTING CONDITION. SUBMIT

2. PERFORM A SYSTEM AND BALANCING IN ALL MECHANICAL SYSTEMS.

ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

WITH 2015 IECC SECTION C408 SYSTEM COMMISSIONING.

CERTIFICATE OF OCCUPANCY.

FUNCTIONAL



ELEVATOR ROOM AC

MITSUBISHI ELECTRIC DUCT FREE

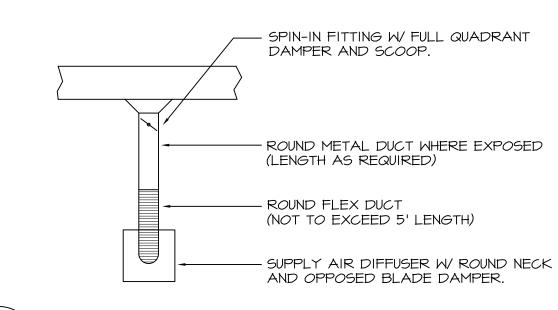
SPLIT SYSTEM; 30,000 BTUH, SEER = 16.0





#### AIR DEVICE SCHEDULE

- (A) 20" DIAMETER EYE-BALL NOZZLE SUPPLY DIFFUSER PROVIDE #01 ALUMINUM COLOR. TITUS MODEL #TND-AA-OI.
- 2' SIDE WALL "FLOWBAR" SLOT DIFFUSER B TITUS MODEL #FLI5-2-JT W/ IO" INLET JET THROW WITH TITUS PLENUM.
- 24" X 24" 4-WAY LAY-IN SUPPLY AIR DIFFUSER W/ ROUND NECK AND OPPOSED BLADE DAMPER. TITUS MODEL #TMS, FRAME TYPE 3.
- 6" X 12" 2-WAY SUPPLY AIR DIFFUSER
  W/ ROUND NECK AND OPPOSED BLADE DAMPER. TITUS MODEL #TDC, FRAME TYPE I, PATTERN #A2.
- (E) 9" X 9" 2-WAY SUPPLY AIR DIFFUSER W/ ROUND NECK AND OPPOSED BLADE DAMPER. TITUS MODEL #TDC, FRAME TYPE I, PATTERN #G2.
- $\langle F \rangle$  |2" X 24" LAY-IN RETURN AIR GRILLE | 1" x 1" x 1" CUBE CORE CONSTRUCTION TITUS MODEL #50F, FRAME TYPE 3.
- (6) IO" X IO" RETURN AIR GRILLE
  I" X I" X I" CUBE CORE CONSTRUCTION TITUS MODEL #50F, FRAME TYPE I.



B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS BEFORE SUBMITTING HIS BIS AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

#### INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOBSITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICA-TIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

#### MATERIALS AND WORKMANSHIP

- A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHER-WISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COM-PLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES.

#### CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE OWNER IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCON-TRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

#### PROTECTION OF WORK AND PROPERTY

- A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PRO-TECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE TENANT'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.
- B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONA ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, TENANT AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

#### CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CON-JUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFER-ENCE SHALL BE MADE TO THE TENANT FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OF STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS AND CATALOGUE DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

#### DRAWINGS AND SPECIFICATIONS

- A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.
- B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DES-CRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

#### RESPONSIBILITY

- A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PRO-VIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.
- B. CONTRACTOR SHALL SUPPLY TO ARCHITECT AND OWNER A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT.

#### HEATING, VENTILATING AND AIR CONDITIONING

- A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CON-DITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY
- B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

#### EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

#### FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COM-PLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR

TENANT'S DIRECTIONS. A. AIR CONDITIONING UNITS - UNITS SHALL BE FACTORY ASSEMBLED AND PRE-TESTED INCLUDING FANS, MOTORS, COILS, FILTERS, VARIABLES PITCH DRIVES, ETC. ALL UNITS SHALL BE EQUIPPED WITH AN ECONO-

#### MIZER PACKAGE AND RELIEF DAMPER. UNITS SHALL HAVE NET CAPACITY RATINGS DETERMINED AT THE SPECIFIED DESIGN CONDI-TIONS. THESE NET CAPACITY RATINGS SHALL BE DETERMINED BY DEDUCTING FOR MOTOR HEAT. THE AIR CONDITIONING UNITS SUPPLIED SHALL HAVE A TOTAL SYSTEM ENERGY RATIO (EER) AS PER CITY CODE. THIS EER SHALL BE DETERMINED BY DIVIDING THE NET CAPACITY AS DEFINED ABOVE BY THE TOTAL INPUT WATTAGE. THE TOTAL INPUT WATTAGE IS TO INCLUDE THE WATTAGE OF ALL FAN MOTORS AND ASSOCIATED EQUIPMENT. CONTRACTOR WILL FURNISH VIBRATION

B. AIR COOLED CONDENSING UNITS - UNITS SHALL BE FACTORY ASSEMBLED AND PRE-TESTED, AND WILL INCLUDE HEAVY GALVANIZED STEEL HOUSING FINISHED WITH BAKED ENAMEL, AIR COOLED CONDENSERS WITH COPPER TUBES AND ALUMINUM FINS, CONTROL PANEL, COMPRESSOR HIGH AND LOW PRESSURE CUTOUTS, MUFFLERS, CRANKCASE HEATERS, LIQUID RECEIVE, ETC. COMPRESSORS SHALL BE OF THE HERMETICALLY SEALED OR SEMI-HERMETICALLY SEALED TYPE. (LOW AMBIENT CONTROL STD.)

ISOLATION AS REQUIRED AND RECOMMENDED BY EQUIPMENT MANUFACTURER.

C. CENTRAL STATION AIR HANDLING EQUIPMENT - (IF SCHEDULED ON DRAWINGS) SHALL BE LOW TO MEDIUM PRESSURE SINGLE ZONE DRAW-THRU UNITS EQUAL TO TRANE OR CARRIER. THEY SHALL BE COMPLETE WITH COOLING AND/OR HEATING COILS AND ACCESSORIES AS SPECIFIED ON THE PLANS.

- I. GRAVITY RELIEF EQUAL TO BREIDERT TYPE "RLO" WITH INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN.
- 2. POWER RELIEF EQUAL TO BREIDERT TYPE "LO-SET" SET WITH MOTORIZED DAMPER AND INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN.
- D. ELECTRIC STRIP HEATER EACH STRIP HEATER SHALL BE CONSTRUCTED TO SLIP INTO THE DUCT THROUGH A RECTANGULAR OPENING IN THE SIDE. EACH STRIP HEATER SHALL BE FURNISHED COMPLETE WITH BUILT-IN MAGNETIC CONTACTORS, AIR FLOW SWITCH, AND FACTORY PREWIRED TO TERMINAL STRIPS FOR LINE AND CONTROL CONNECTIONS IN THE FIELD. A THERMAL CUTOUT SHALL BE FURNISHED WITH EACH STRIP HEATER TO PROTECT THE HEATER AGAINST AIR FAILURE. THE COMPLETE HEATING UNIT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. COILS SHALL BE ARRANGED FOR MINIMUM TWO-STAGE CONTROL IOKW AND ABOVE.
- E. FILTERS FILTERS SHALL BE OF THE THROW AWAY TYPE WHEREVER POSSIBLE. IF FILTERS ARE OF NECESSITY THE PERMANENT TYPE. THEN THEY MUST BE OF THE CLEANABLE, HIGH VELOCITY TYPE AND SHALL BE AMERICAN AIR FILTERS, AIR MAYS, EVANS, OR APPROVED EQUAL. FILTERS SHALL BE OF THE OPTIMUM THICKNESS AND DESIGN FACE VELOCITY SHALL NOT EXCEED 550 FPM. INSTALLATION OF THE AIR CONDITIONING UNIT SHALL BE SUCH SO AS TO NOT IMPEDE ACCESS TO THE FILTERS. IF THE FILTERS ARE IN FRAME HOLDERS, THEN SUCH HOLDERS SHALL BE PROVIDED WITH A LEFT HANDLE.
- G. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH MULTI-STAT HUMIDISTAT. A DUAL STAGE UNIT WILL BE EQUIPPED WITH A DAY/NIGHT HUMIDISTAT ARRANGEMENT. DESIGN AND STANDARD CONDITIONS FOR HUMIDISTAT OPERATION WILL BE AS FOLLOWS:

#### COOLING: 75 F MINIMUM OCCUPIED COOLING TEMPERATURE 85 F COOLING NIGHT SETBACK.

HEATING: 72 F MAXIMUM OCCUPIED HEATING TEMPERATURE 55 F HEATING NIGHT SETBACK.

#### DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GAUGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

ZE	METHOD
AND LESS	"S" AND DRIVE CLEATS
" TO 30"	"L" STANDING SEAMS ON
	3'-O" CENTERS
' TO 54"	I-I/4" STANDING SEAMS
	ON 3'-O" CENTERS

#### ROUND DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE (DIAMETER) DUCTS FITTINGS 8" AND LESS 9" TO 18"

ALL 90 DEGREE ELBOWS FOR ROUND DUCTWORK SHALL BE FIVE (5) PIECE. ALL LONGITUDINAL SEAMS SHALL BE FORMED BY PITTSBURGH LOCKS. JOINTS SHALL BE SWAGGED WITH ONE-HALF INCH (1/2") OVERLAP.

- C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MINIMUM I-I/2" THICK ACOUSTICAL AND THERMAL INSULATION WITH AN R-VALUE OF 6.0 ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.
- D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE IO GAUGE, ONE-HALF INCH (I/2") MESH IN REMOVABLE GALVANIZED
- E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (2013 ASHRAE 90.1) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEETMETAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

19" TO 30"

- A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.
- B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB-CONTRACTOR. HE SHALL EMPLOY THE OWNER'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. I WITH DAMPER ROD END BEARINGS ON OPPOSITE

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH

- B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.
- C. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS, PROVIDE AND INSTALL BARBER-COLMAN AIRTURNS OR EQUAL TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (I-I/2) TIMES THE DUCT WIDTH.

#### FIBROUS GLASS DUCT SYSTEMS OPTION

AT HIS OPTION, THE CONTRACTOR MAY FURNISH OWENS-CORNING 800FR OR 800FRK OR EQUAL FOR ALL SUPPLY AND RETURN DUCTWORK WHERE THE AIR VELOCITY IS UNDER 2400 FPM, STATIC PRESSURE IS 2" OR LESS AND THE AIR TEMPERATURE IS 250 F OR LESS. SYSTEM SHALL BE FABRICATED, REINFORCED AND INSTALLED ACCORDING TO THE "SMACNA" PUBLICATION -FIBROUS GLASS DUCT CONSTRUCTION STANDARDS, FOURTH EDITION, 1975.

ALL JOINTS ARE TO BE SEALED WITH 2-1/2" "SMACNA" APPROVED PRESSURE SENSITIVE ALUMINUM TAPE MEETING AFTS 100-73 STANDARDS AND THE REQUIREMENTS OF U.L. 181. APPLICATION SHALL BE IN ACCORDANCE WITH AFTS 101-73. (REFER TO MANUFACTURER'S INSTRUCTION SHEET FOR SPECIFIC DETAILS FOR U.L. 181 REQUIREMENTS.) RECOMMEND FASSON 0805. DO NOT APPLY AT TEMPERATURE BELOW 32 F.

#### DUCTWORK - EXCEPTIONS DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

#### SUPPORT OF DUCT SYSTEM

DUCTWORK SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8' O.C. FOR STRAIGHT DUCTS UP TO 35" TO 59" MAXIMUM DIMENSION, 6' O.C. AND DUCTS OVER 60: MAXIMUM DIMENSION, 4' O.C.

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT THE DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED DOCUMENTS ARE ADHERED TO.

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL. MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL

#### ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNEC-

A. PIPING AND FITTINGS SHALL BE OF THE WEIGHTS AND TYPES SHOWN ON THE DRAWINGS. SIZES SHOWN ON THE DRAWINGS ARE NOMINAL PIPE

TIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE

INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

#### B. ALL PIPING SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES WITH THE BUILDING WALLS AND PARTITIONS AND SHALL BE INSTALLED WITH THE PROPER PITCH.

C. ALL PIPING SHALL BE UPENDED AND POUNDED TO REMOVE ANY FOREIGN MATTER PRESENT AND SHALL BE SWABBED IF NECESSARY.

#### PLUMBING

- MATERIALS A. SANITARY SEWER - CAST IRON OR SCH. 40 PVC MAY BE USED UNLESS OWNER OR CITY REQUIREMENTS DIFFER. VENTS SHALL BE SCH. 40 PVC UNLESS OWNER OR CITY REQUIREMENTS REQUIRE CAST IRON. 40
- B. DOMESTIC WATER AND HOT WATER PIPING SHALL BE COPPER TYPE "L" INSULATED WITH ARMAFLEX OR EQUIVALENT INSULATING TO A THICK-
- C. GAS PIPING SHALL BE BLACK STEEL SCHEDULED 40 WITH SCREWED
- D. CHILLED WATER SUPPLY AND RETURN PIPING SHALL BE GALVANIZED STEEL PIPE (STANDARD WALL) OR TYPE "M" HARD COPPER TUBING. ALL PIPING SHALL BE INSULATED WITH I" THICK OWENS CORNING FIBERGLASS 25 ASJ/SSL OR EQUAL.

#### HANGERS AND SUPPORTS

HORIZONTAL PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10'-0" WITH SWIVEL SPLIT PIPE HANGERS EQUAL TO CRANE NO. 199F OR GRINNELL NO. 104. VERTICAL PIPING SHALL BE SUPPORTED BY MEANS OF WROUGHT IRON CLAMPS SUSPENDED FROM THE UNDERSIDE OF STRUCTURE WITH HANGER RODS.

CLEANOUTS SHALL BE AS MANUFACTURED BY JOSAM, ZURN MFG. CO. OR EQUAL AND SHALL BE INSTALLED AT ALL BENDS, ANGLES, AND ENDS OF ALL WASTE AND SEWER LINES, AS CALLED FOR ON THE DRAWINGS, AND AS REQUIRED BY LOCAL CODES. ALL CLEANOUTS SHALL BE BROUGHT TO GRADE, AND IN ALL CASES, SHALL BE PROVIDED WITH SUFFICIENT SPACE FOR RODDING.

#### ALL VALVES SHALL BE BRASS AND MANUFACTURED BY CRANE, NIBCO, STOCKHAM, LUNKENHEIMER, NORDSTROM, GRINNELL OR EQUAL.

#### SPRINKLER SYSTEM

- A. SHOP DRAWINGS THE SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER'S INSURANCE CARRIER & TO THE APPROPRIATE RATING BUREAU FOR THEIR APPROVAL. A COPY OF THE APPROVAL LETTER FROM THE RATING BUREAU SHALL BE FORWARDED TO THE
- B. SPRINKLER HEADS SHOW WINDOWS HIGH TEMPERATURE, CHROME PLATED, COMPLETELY RECESSED TYPE. SALES AREA - CHROME PLATED, SEMI-RECESSED TYPE. STORAGE, TOILET AND WORK AREAS WITH CEILINGS - BRASS, PENDANT TYPE. STORAGE AND WORK AREAS WITHOUT CEILINGS - BRASS UPRIGHT TYPE. (REFER TO DWG. M.I)

FOR SECOND LEVEL LOCATIONS, THE GENERAL CONTRACTOR SHALL RUN ALL LINES REQUIRED FOR PLUMBING ROUGH-INS TIGHT AGAINST THE UNDER-SIDE OF THE SECOND FLOOR LEVEL. THE SECOND FLOOR STRUCTURAL SLAB SHALL BE CORED AS REQUIRED TO INSTALL THESE ITEMS AT THE LOCATIONS SHOWN ON THE PLANS.

#### TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATIS-FACTION OF OWNER, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCOR-DANCE WITH ASHRAE AND PROVIDE SAME TO OWNER. GAS PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER UNIFORM PLUMBING CODE.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (I) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY OWNER SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER.

#### MECHANICAL TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF

- TEMPORARY SERVICES: A. TELEPHONE - THE GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY OWNER & ARCHITECT OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.
- B. TEMPORARY WATER WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIRE-MENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.
- C. TEMPORARY ELECTRICITY TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.
- D. TEMPORARY HEAT WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE OWNER OR LOCAL AUTHORITY.

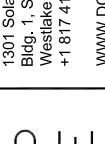
NOTE FOR GENERAL CONTRACTOR IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

#### WATER HAMMER ARRESTORS

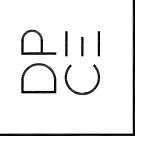
A. INSTALL STAINLESS STEEL BELLOWS TYPE WATER HAMMER ARRESTORS ON WATER LINES CONNECTED TO FLUSH VALVES AND TO GROUPS OF FIXTURES. PROVIDE ACCESS DOORS AT ALL WATER HAMMER ARRESTOR LOCATIONS, SIMILAR TO WADE. SELECTION OF WATER HAMMER ARRESTORS SHALL BE PER PLUMBING AND DRAINAGE INSTITUTE RATING FOR FIXTURE UNIT CAPACITY SERVED. REFER TO PLUMBING RISERS OR PLANS FOR LOCATION AND SIZE.

#### WATER PIPING

- A. PROVIDE WATER CUT-OFF GATE VALVE AND A WALL HYDRANT DRAIN ON WATER SUPPLY LINE WHERE IT ENTERS BUILDING. PROVIDE CUT-OFF GATE VALVES TO ZONE BUILDING AS REQUIRED AND AS INDICATED ON DRAWINGS.
- B. PROVIDE WATER HAMMER ARRESTORS WHERE INDICATED ON DRAWINGS.
- C. NOTIFY ENGINEER ONE WEEK PRIOR TO STERILIZATION OF DOMESTIC WATER PIPING SYSTEM SO THAT PROCEDURE MAY BE WITNESSED.
- D. BEFORE STERILIZING, THOROUGHLY FLUSH ALL DOMESTIC WATER
- E. DISINFECT LINES WITH FLUID CHLORINE OR HYPOCHLORITE. INTRODUCE SUFFICIENT CHLORINE TO PROVIDE AN INITIAL CONCENTRATION OF 50 P.P.M. DISINFECT FOR 24 HOUR PERIOD, OPENING AND CLOSING VALVES IN SYSTEM AT VARIOUS POINTS DURING DISINFECTION. FOLLOWING CHLORINATION, THOROUGHLY FLUSH COMPLETE SYSTEM UNTIL REPLACEMENT WATER IS COMPARABLE IN QUALITY TO WATER FROM THE WATER SUPPLY SYSTEM. SUBMIT CERTIFICATION THAT SPECIFICATION AND ALL ORDINANCES AND REGULATIONS HAVE BEEN COMPLIED WITH.



RELEASED FOR CONSTRUCTION As Noted on Plans Review





PROJECT NO. 2035

12.16.2021

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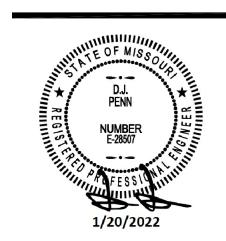
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MECHANICAL

SPECIFICATIONS

SHEET NO.



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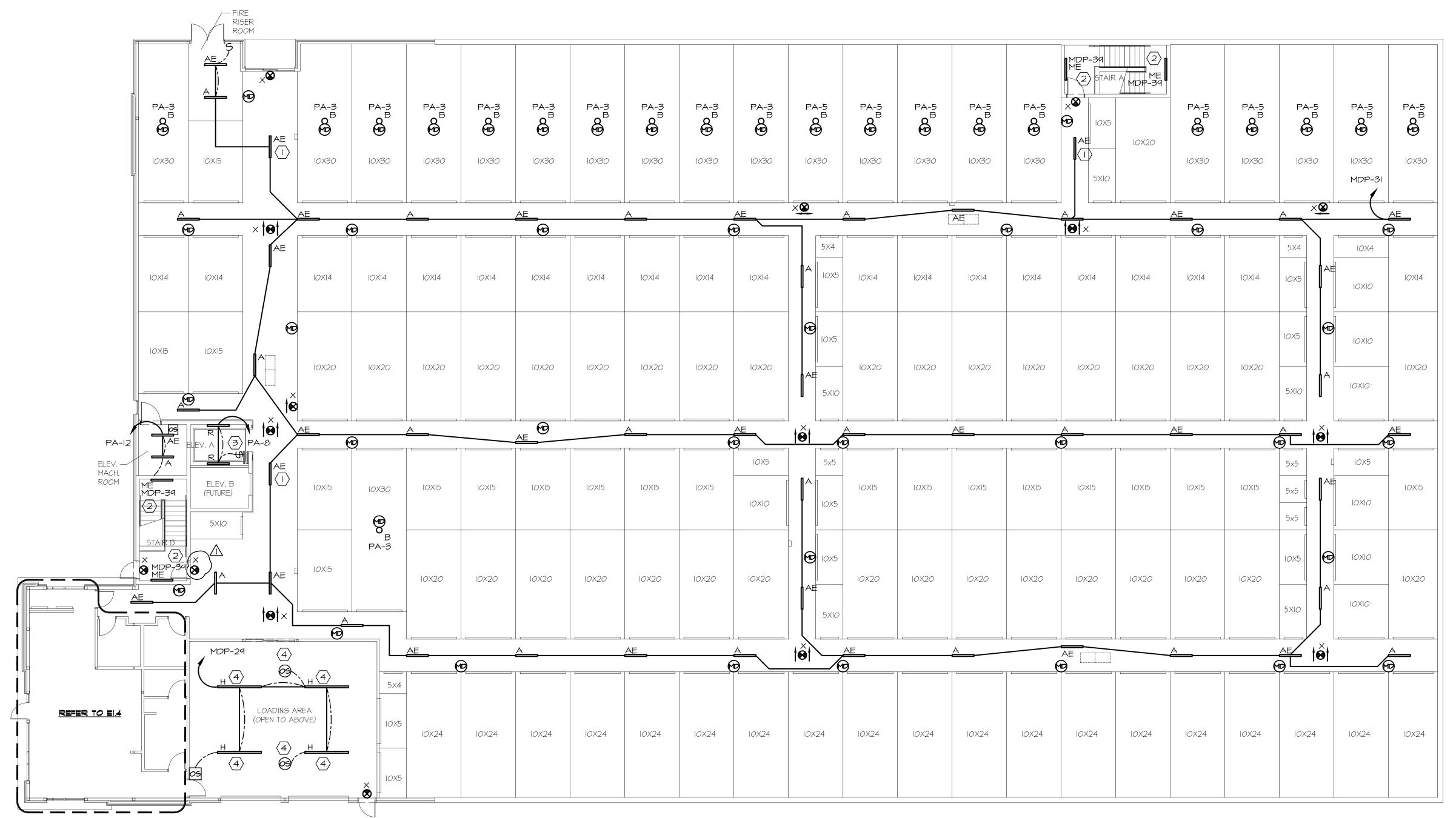
12.16.2021 DATE:

DRAWN:

REVISIONS:

1ST FLOOR LIGHTING

SHEET NO.

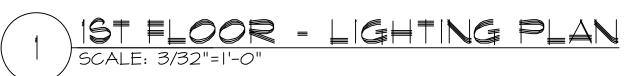


#### COORDINATION NOTE:

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR.

ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC.

THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY.



<u>NOTE :</u>

ALL HALLWAY LIGHTING SHALL BE ON MOTION DETECTORS. COORDINATE ALL MOTION DETECTOR LOCATIONS & LIGHTS TO BE ACTIVATED WITH OWNER PRIOR TO FINAL INSTALLATION.

#### GENERAL LIGHTING NOTES :

I. REFER TO SHEET "MEPI" FOR EXTERIOR LIGHTING.

2. ALL STORAGE UNIT LIGHTING "B" CONTROLLED WITH OCCUPANCY SENSORS.

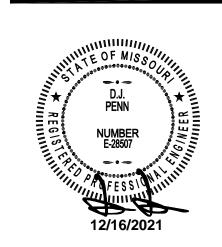
3. ALL EXIT & EMERGENCY LIGHTS SHALL BE CONNECTED TO NEAREST GENERAL LIGHTING CIRCUIT AND REMAIN UN-SWITCHED.

#### KEYED LIGHTING NOTES :

- (I) LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.
- 2 LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES. MOUNT BOTTOM OF FIXTURE @ 8'-0" AFF.
- $\langle 3 \rangle$  LIGHT MOUNTED IN ELEVATOR PIT. LOCATE SWITCH @ ACCESS TO PIT. COORDINATE ON-SITE. ELEVATOR HOISTWAY LIGHTING SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI RECEPTACLE.
- 4 MOUNT ON STRUCTURE ABOVE. FIELD COORDINATE LOCATION.







## AKEWOOD 3TORAGE

PROJECT NO. 2035

12.16.2021

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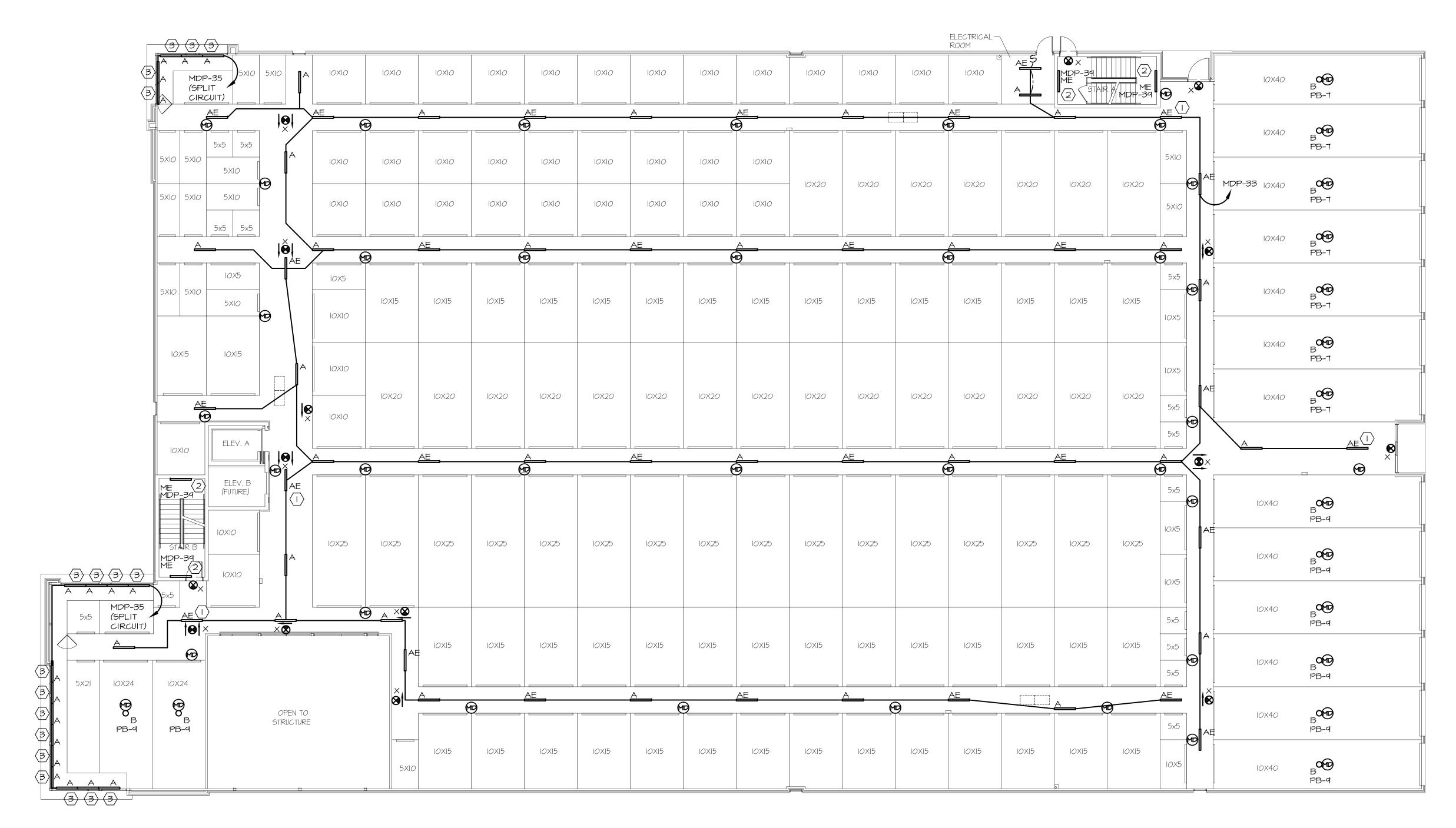
DATE:

REVISIONS:

2ND FLOOR LIGHTING

SHEET NO.

E1.2



#### COORDINATION NOTE :

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR.

ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC

THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY.

NOTE: MD

ALL HALLWAY LIGHTING SHALL BE ON MOTION
DETECTORS. COORDINATE ALL MOTION DETECTOR
LOCATIONS & LIGHTS TO BE ACTIVATED WITH
OWNER PRIOR TO FINAL INSTALLATION.

## 2ND = LOOR = LIGHTING PLAN SCALE: 3/32"=1'-0"

#### GENERAL LIGHTING NOTES :

I. REFER TO SHEET "MEPI" FOR EXTERIOR LIGHTING.

2. ALL STORAGE UNIT LIGHTING "B" CONTROLLED WITH BUILT-IN OCCUPANCY SENSORS.

3. ALL EXIT & EMERGENCY LIGHTS SHALL BE CONNECTED TO NEAREST GENERAL LIGHTING CIRCUIT AND REMAIN UN-SWITCHED.

#### KEYED LIGHTING NOTES :

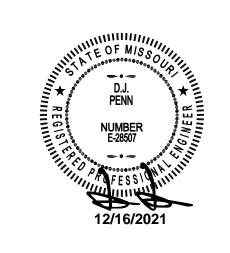
- (I) LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.
- 2 LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES. MOUNT BOTTOM OF FIXTURE @ 8'-0" AFF.

MOUNT FIXTURES ABOVE WINDOW.

(3) LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.

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## KEWOOD HORAGE

PROJECT NO. 2035

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DATE: 12.16.2021

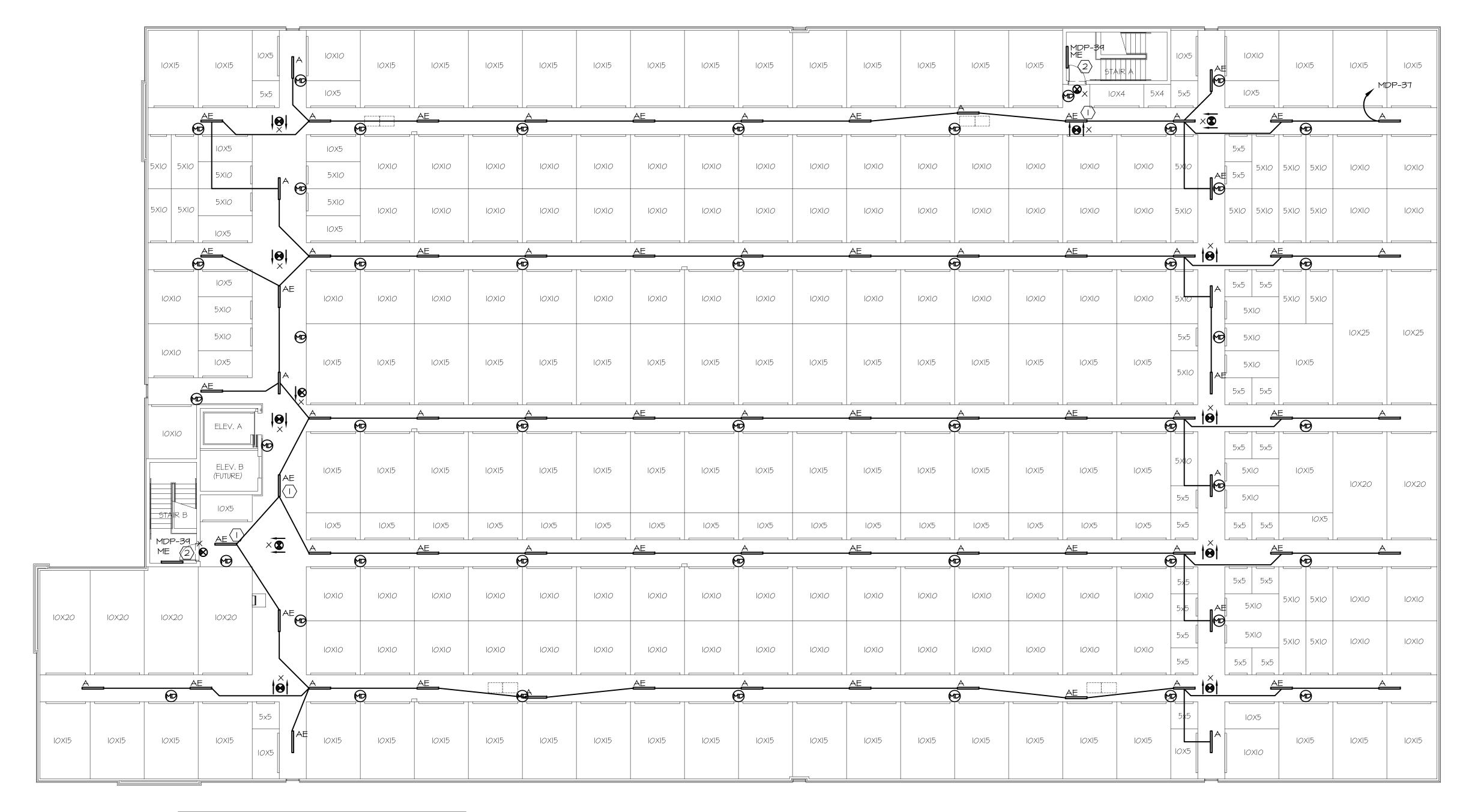
DRAWN:

REVISIONS:

3RD FLOOR LIGHTING

SHEET NO.

E1.3



#### COORDINATION NOTE:

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR.

ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC.

THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY.

NOTE: MD
ALL HALLWAY LIGHTING SHALL BE ON MOTION
DETECTORS. COORDINATE ALL MOTION DETECTOR
LOCATIONS & LIGHTS TO BE ACTIVATED WITH

OWNER PRIOR TO FINAL INSTALLATION.

3RD FLOOR - LIGHTING PLAN SCALE: 3/32"=1'-0"

#### GENERAL LIGHTING NOTES :

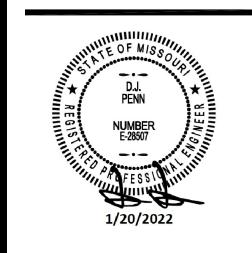
- I. REFER TO SHEET "MEPI" FOR EXTERIOR LIGHTING.
- 2. ALL STORAGE UNIT LIGHTING "B" CONTROLLED WITH BUILT-IN OCCUPANCY SENSORS.
- 3. ALL EXIT & EMERGENCY LIGHTS SHALL BE CONNECTED TO NEAREST GENERAL LIGHTING CIRCUIT AND REMAIN UN-SWITCHED.

#### KEYED LIGHTING NOTES :

- LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.
- 2 LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES. MOUNT BOTTOM OF FIXTURE @ 8'-0" AFF.

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## AKEWOOD 3HORAGE

PROJECT NO. 2035

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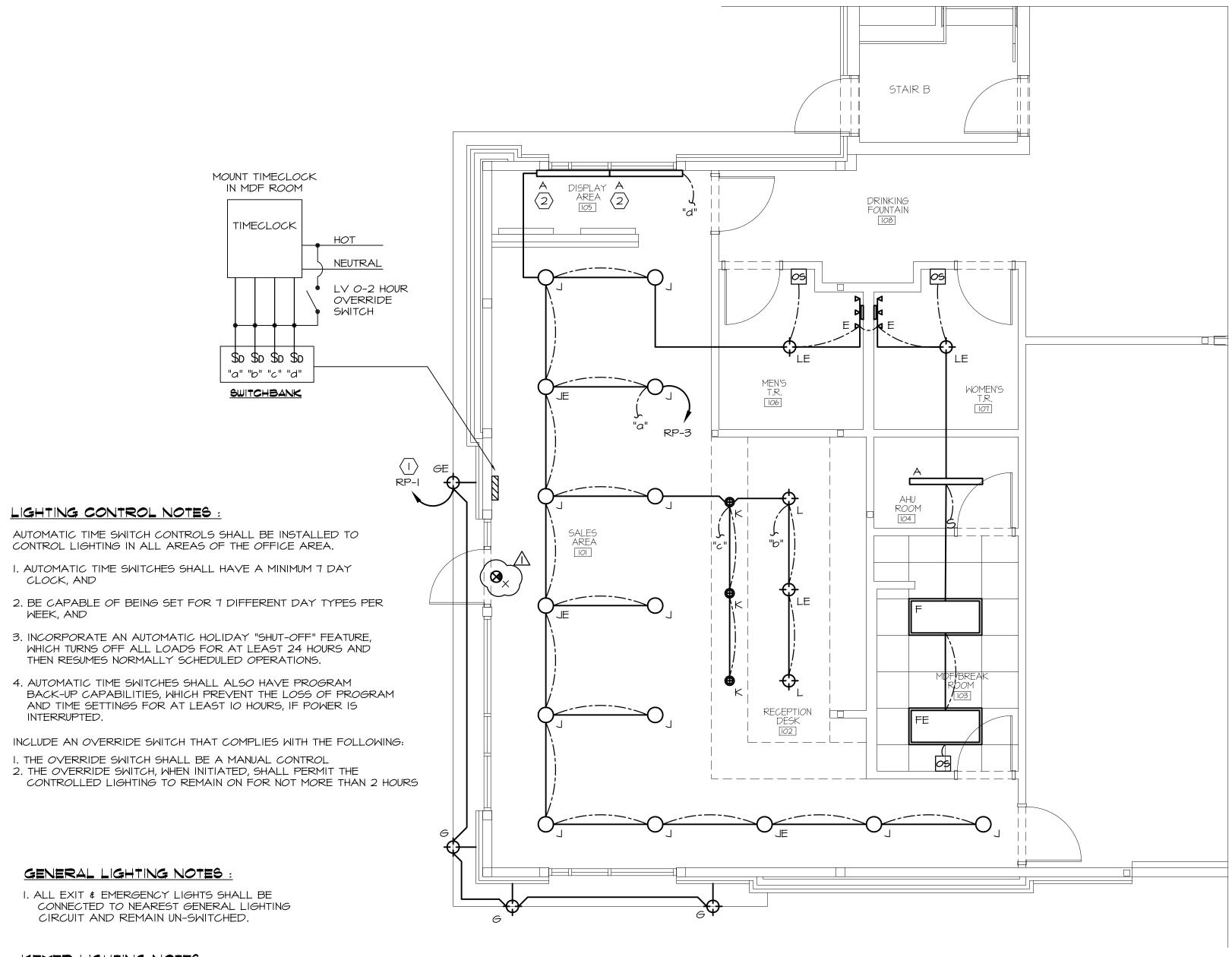
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REVISIONS:

OFFICE LIGHTING

SHEET NO.

E1.4



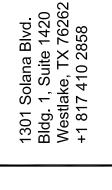
LIGHTING PLAN

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

#### KEYED LIGHTING NOTES :

- RUN CIRCUIT SWITCHLEG THRU PHOTOCELL MOUNTED ON ROOF, WITH TIMECLOCK OVERRIDE. COORDINATE EXTERIOR LIGHTING WITH ARCHITECTURAL PLANS/ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.
- 2 LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.
  MOUNT FIXTURES ABOVE WINDOWS, BELOW CEILING.
  COORDINATE WITH ARCHITECTURAL PLANS.









# AKEWOOD STORAGE

PROJECT NO. 2035

DATE: 12.16.2021

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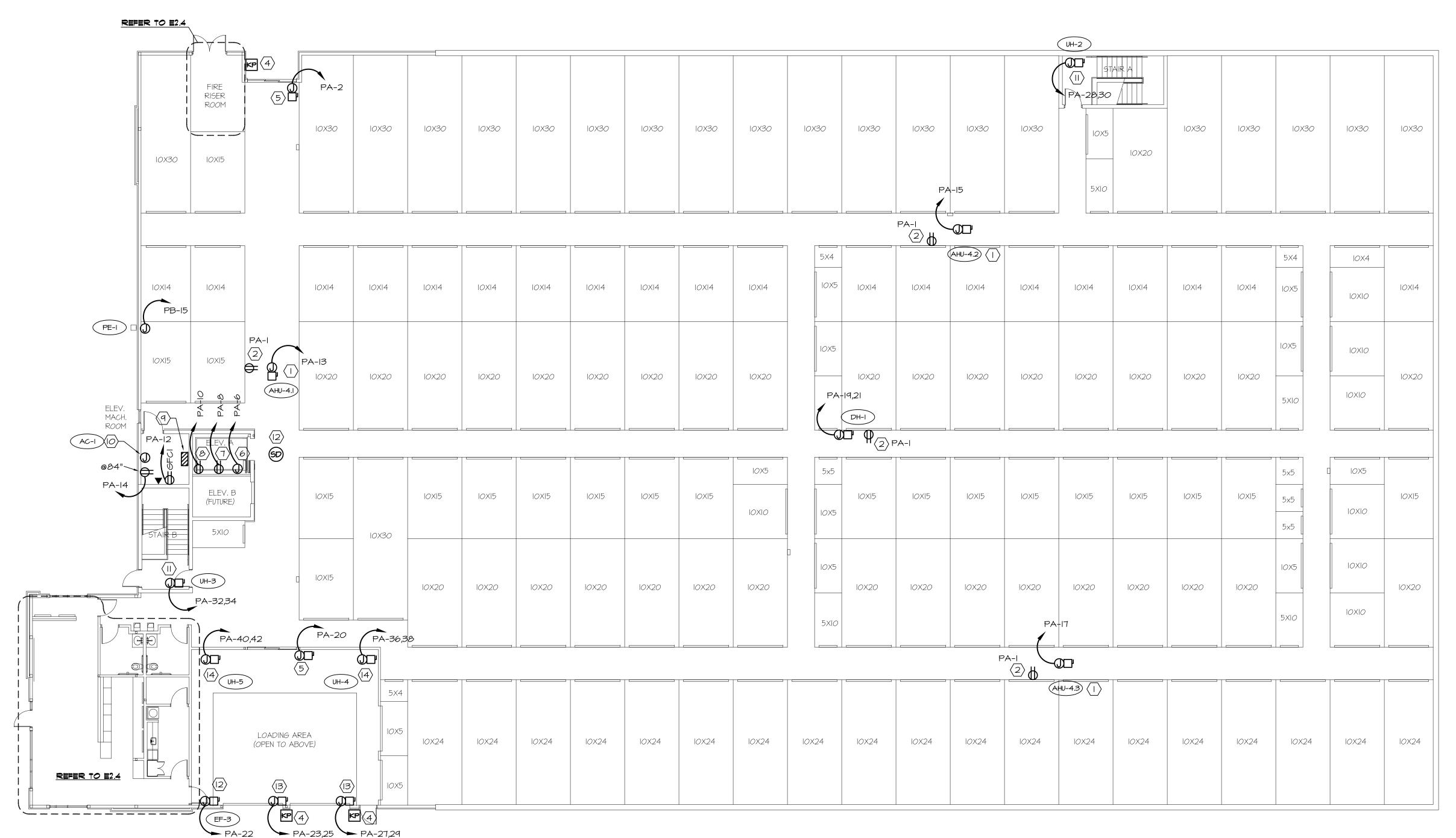
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1ST FLOOR POWER

SHEET NO.

E2.1



#### ELEVATOR GENERAL NOTES :

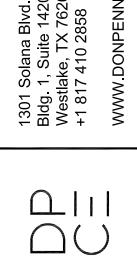
THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FINAL REQUIREMENTS W/ THE STATE ELEVATOR INSPECTOR BUT NOTE THE FOLLOWING:

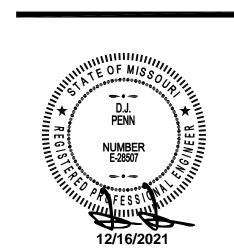
THE POWER FEEDER SHALL BE 7'-O" CLEAR FROM THE FLOOR. THERE SHALL BE A DEDICATED GFCI RECEPTACLE IN THE PIT. A DEDICATED GFCI IN THE ELEVATOR CONTROL ROOM. A DEDICATED PHONE LINE TO THE CONTROLLER. A DEDICATED PHONE LINE TO ADT ALARM PANEL. A SMOKE DETECTOR IN THE ELEVATOR CONTROL ROOM & THE LOBBY ON EACH FLOOR THAT WHEN ACTIVATED WILL SEND A RECALL SIGNAL TO THE ELEVATORS.

THE LIGHT IN THE ELEVATOR PIT SHALL BE PROVIDED W/ A 2-POLE DISCONNECT SWITCH LOCATED IN THE ELEVATOR EQUIPMENT ROOM CAPABLE OF BEING LOCKED.

#### POWER KEYED NOTES :

- J-BOX & 30A/2P/I2OV/FUSED 20A/N-I DISCONNECT SWITCH FOR AIR HANDLING UNIT.
- 2 MOUNT OUTLET IN CORRIDOR ABOVE DOOR HEIGHT. COORDINATE LOCATION.
- (3) REFER TO "ELEVATOR GENERAL NOTES" ON THIS SHEET.
- SECURITY KEYPAD @ 48" AFF. E.C. TO COORDINATE LOCATION AND MOUNTING HEIGHT WITH SECURITY INSTALLER. PROVIDE 3/4" CONDUIT W/ PULLSTRING TO ACCESSIBLE CEILING, CORRIDOR CEILING IS NOT ACCESSIBLE, COORDINATE ON-SITE.
- 5 J-BOX & 30A/2P/120V/NON-FUSED/N-1 DISCONNECT SWITCH FOR DOOR MOTOR. COORDINATE WITH INSTALLER.
- PROVIDE A DEDICATED BRANCH CIRCUIT FOR THE ELEVATOR CAR LIGHTING. FIELD COORDINATE LOCATION W/ ELEVATOR EQUIPMENT SUPPLIER.
- GFCI OUTLET IN HOISTWAY. LIGHTING IN HOISTWAY SHALL NOT BE CONNECTED TO LOAD SIDE OF THE GFCI RECEPTACLE.
- B DEDICATED DUPLEX RECEPTACLE FOR SUMP PUMP. REFER TO DETAIL I/MEP2.
- 9 100a/3p/480V/N-I FUSED 100a Enclosed disconnect provided with shunt trip as per elevator code. Contractor shall verify W/ Elevator installer prior to ordering any gear.
- $\langle \overline{\text{IO}} \rangle$  J-BOX FOR CONNECTION TO AC UNIT, POWERED THRU CONDENSING UNIT.
- J-BOX & 30A/2P/208V/FUSED 25A/N-I DISCONNECT SWITCH FOR UNIT HEATER.
- J-BOX & 30A/2P/I20V/FUSED 20A/N-I DISCONNECT SWITCH FOR EXHAUST FAN.
- J-BOX & 30A/2P/208V/FUSED 20A/N-I DISCONNECT SWITCH FOR ROLL-UP DOOR MOTOR. COORDINATE CONTROLS WITH INSTALLER.
- J-BOX & 30A/2P/208V/FUSED 30A/N-I DISCONNECT SWITCH FOR UNIT HEATER.





DATE: 12.16.2021

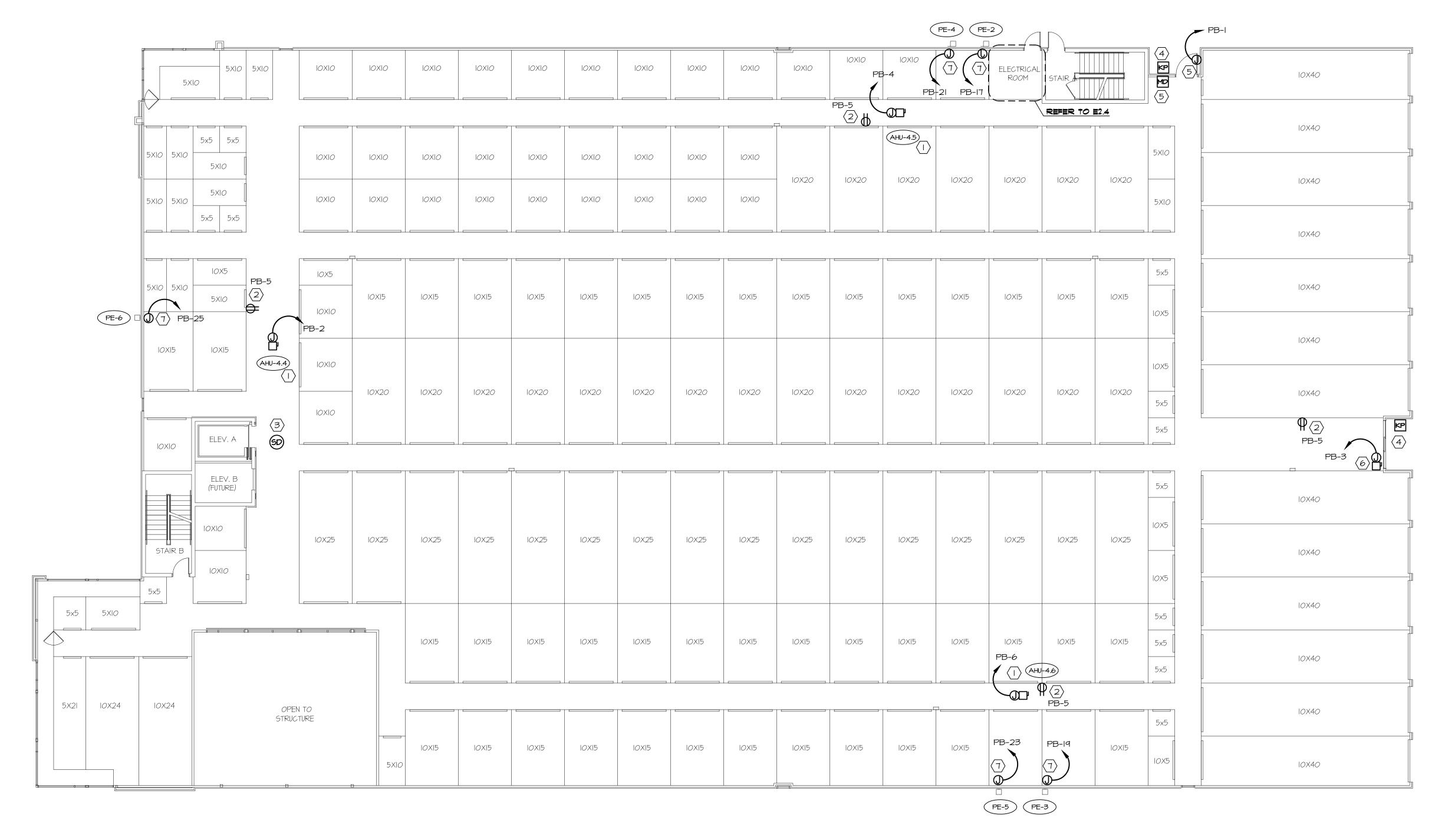
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DRAWN:

REVISIONS:

2ND FLOOR POWER

SHEET NO.



#### ELEVATOR GENERAL NOTES :

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FINAL REQUIREMENTS W/ THE STATE ELEVATOR INSPECTOR BUT NOTE THE FOLLOWING:

THE POWER FEEDER SHALL BE 7'-O" CLEAR FROM THE FLOOR. THERE SHALL BE A DEDICATED GFCI RECEPTACLE IN THE PIT. A DEDICATED GFCI IN THE ELEVATOR CONTROL ROOM.

- A DEDICATED PHONE LINE TO THE CONTROLLER.
- A DEDICATED PHONE LINE TO ADT ALARM PANEL. A SMOKE DETECTOR IN THE ELEVATOR CONTROL ROOM & THE LOBBY ON EACH FLOOR THAT WHEN ACTIVATED WILL SEND A RECALL SIGNAL TO THE ELEVATORS.
- THE LIGHT IN THE ELEVATOR PIT SHALL BE PROVIDED W/ A 2-POLE DISCONNECT SWITCH LOCATED IN THE ELEVATOR EQUIPMENT ROOM CAPABLE OF BEING LOCKED.
- THE SHUNT TRIP SHALL BE LOCATED IN THE ELEVATOR EQUIPMENT ROOM.

## 2ND FLOOR = POWER PLAN SCALE: 3/32"=1'-0"

#### POWER KEYED NOTES :

- J-BOX & 30A/2P/I20V/FUSED 20A/N-I DISCONNECT SWITCH FOR AIR HANDLING UNIT.
- (2) MOUNT OUTLET IN CORRIDOR ABOVE DOOR HEIGHT. COORDINATE LOCATION.
- (3) REFER TO "ELEVATOR GENERAL NOTES" ON THIS SHEET.
- 4 SECURITY KEYPAD @ 48" AFF. E.C. TO COORDINATE LOCATION AND MOUNTING HEIGHT WITH SECURITY INSTALLER. PROVIDE 3/4" CONDUIT W/ PULLSTRING TO ACCESSIBLE CEILING, CORRIDOR CEILING IS NOT ACCESSIBLE, COORDINATE ON-SITE.
- (5) E.C PROVIDED/INSTALLED J-BOX FOR MAGNETIC DOOR HOLD OPEN ACTIVATED WITH MOTION SENSOR AT ENTRY. E.C. TO COORDINATE LOCATION AND MOUNTING HEIGHT W/ OWNER. MOTION SENSOR SHALL REMAIN SEPARATE OF LIGHTING MOTION SENSORS. E.C. TO PROVIDE ALTRONIX #ALI25UL POWER SUPPLY/CONVERTER CABINET IN MAIN ELECTRICAL ROOM.
- 6 J-BOX & 30A/2P/120V/NON-FUSED/N-I DISCONNECT SWITCH FOR DOOR MOTOR. COORDINATE WITH INSTALLER.
- $\langle 7 \rangle$  J-BOX FOR POWER VENT POWER. COORDINATE WITH INSTALLER.





## AKEWOOD 3HORAGE

PROJECT NO. 2035

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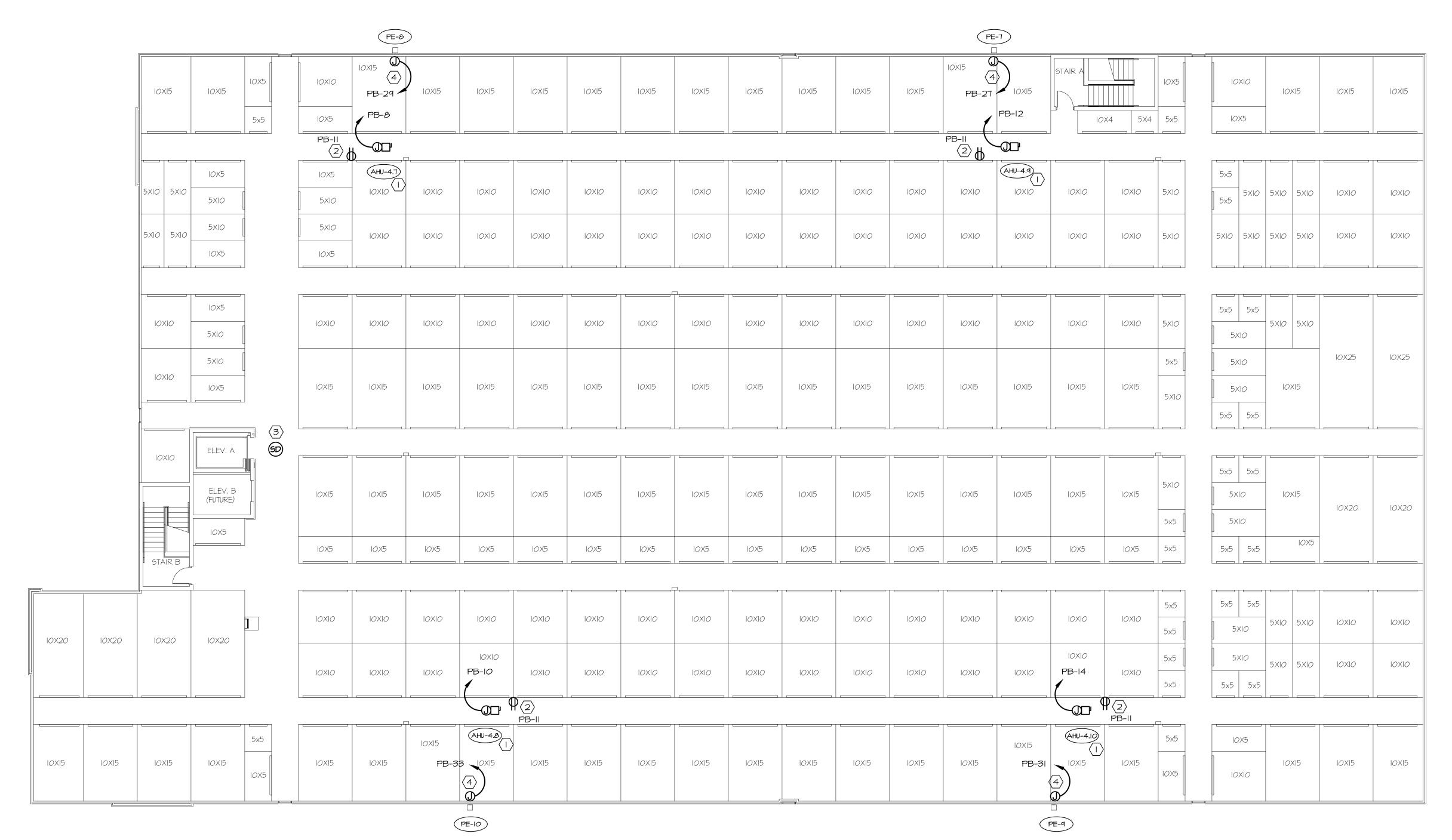
DRAWN:

REVISIONS:

3RD FLOOR POWER

SHEET NO.

E2.3



#### ELEVATOR GENERAL NOTES :

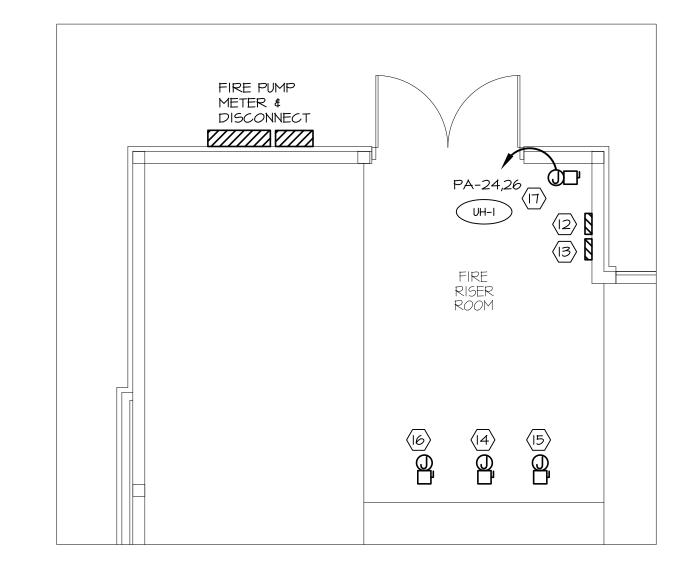
THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FINAL REQUIREMENTS W/ THE STATE ELEVATOR INSPECTOR BUT NOTE THE FOLLOWING:

THE POWER FEEDER SHALL BE 1'-O" CLEAR FROM THE FLOOR.
THERE SHALL BE A DEDICATED GFCI RECEPTACLE IN THE PIT.
A DEDICATED GFCI IN THE ELEVATOR CONTROL ROOM.
A DEDICATED PHONE LINE TO THE CONTROLLER.
A DEDICATED PHONE LINE TO ADT ALARM PANEL.
A SMOKE DETECTOR IN THE ELEVATOR CONTROL ROOM & THE LOBBY ON EACH FLOOR THAT WHEN ACTIVATED WILL SEND A RECALL SIGNAL TO THE ELEVATORS.
THE LIGHT IN THE ELEVATOR PIT SHALL BE PROVIDED W/ A 2-POLE DISCONNECT SWITCH LOCATED IN THE ELEVATOR EQUIPMENT ROOM CAPABLE OF BEING LOCKED.
THE SHUNT TRIP SHALL BE LOCATED IN THE ELEVATOR EQUIPMENT

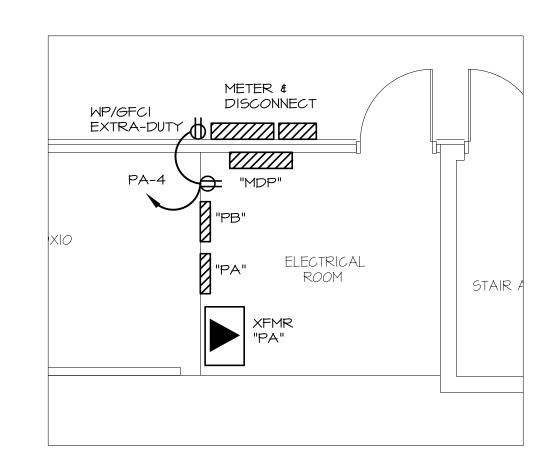
### 3RD FLOOR = POWER PLAN SCALE: 3/32"=1'-0"

#### POWER KEYED NOTES :

- J-BOX & 30A/2P/120V/FUSED 20A/N-I DISCONNECT SWITCH FOR AIR HANDLING UNIT.
- (2) MOUNT OUTLET IN CORRIDOR ABOVE DOOR HEIGHT. COORDINATE LOCATION.
- (3) REFER TO "ELEVATOR GENERAL NOTES" ON THIS SHEET.
- 4 J-BOX FOR POWER VENT POWER. COORDINATE WITH INSTALLER.





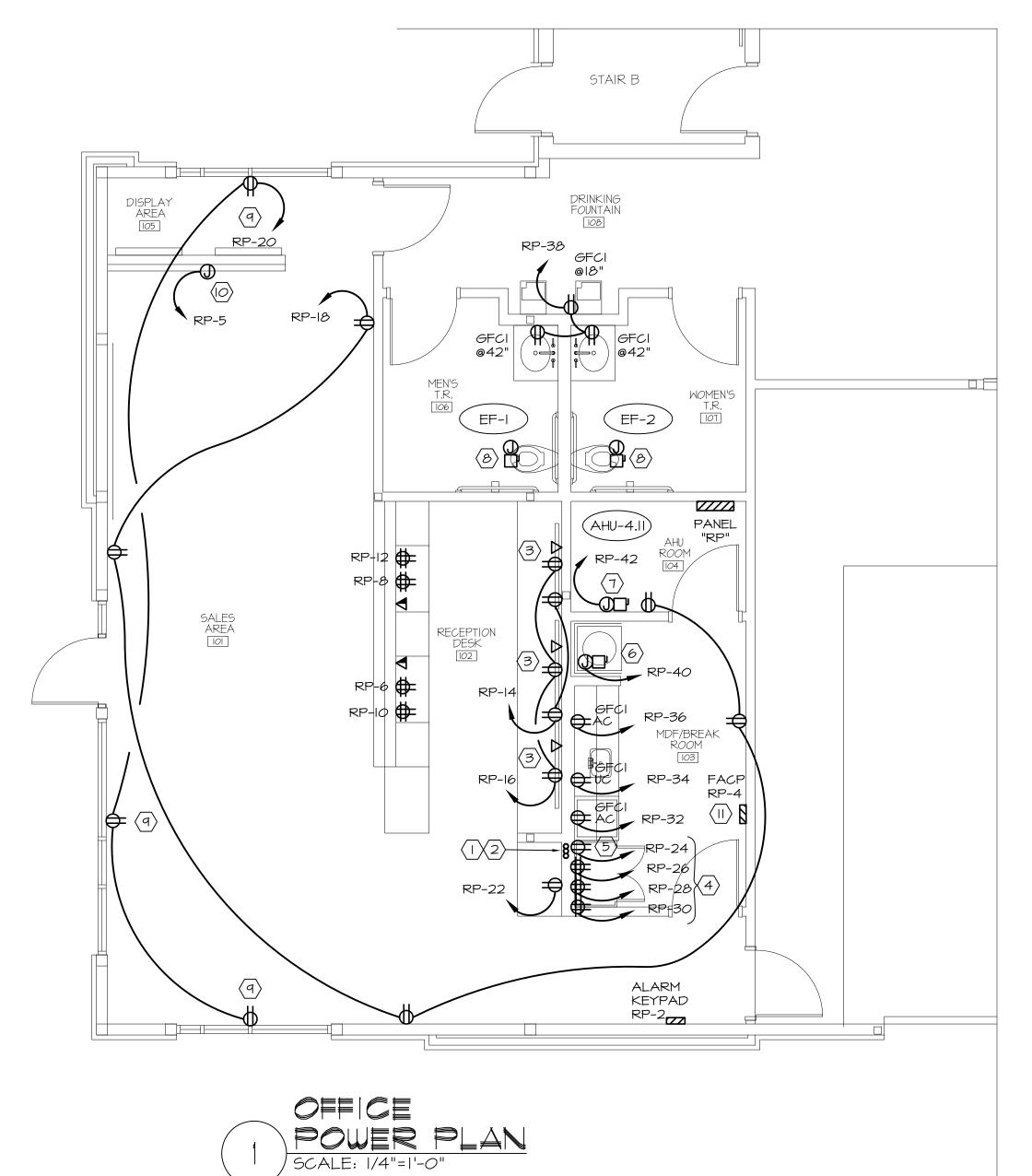


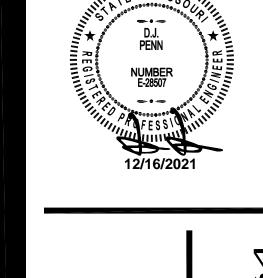
2 | ELECTRICAL ROOM | SCALE: 1/4"=1'-0"

#### POWER KEYED NOTES :

- PROVIDE (2) 2" CONDUITS TO CABINETRY REAR WALL OF MDF/BREAK ROOM FOR SECURITY/TV/DATA. COORDINATE W/ SECURITY CONTRACTOR & GENERAL CONTRACTOR.
- PROVIDE NECESSARY CONDUIT FROM CABINETRY TO OPERATOR GATES. COORDINATE WITH SECURITY CONTRACTOR & GENERAL CONTRACTOR.
- DUPLEX OUTLETS AND CATY OUTLETS FOR MONITORS.

  MOUNT BEHIND MONITOR, 73" AFF. GC TO COORDINATE HEIGHTS/
  LOCATIONS/QUANTITIES WITH OWNER AND MANAGEMENT COMPANIES.
- 4 OUTLETS TO BE MOUNTED IN MDF CABINET. COORDINATE WITH INSTALLER.
- 5 DEDICATED DUPLEX RECEPTACLE FOR TELEPHONE BOARD.
- 6 J-BOX & 30A/2P/120V/NF/N-1 DISCONNECT SWITCH FOR WATER HEATER.
- J-BOX & 30A/2P/120V/FUSED 20A/N-1 DISCONNECT SWITCH FOR AIR HANDLING UNIT.
- (8) J-BOX & 30A/2P/I2OV/NF/N-I DISCONNECT SWITCH FOR EXHAUST FAN. FAN TO BE POWERED AND CONTROLLED WITH LIGHTS IN ROOM.
- 4 DUPLEX RECEPTACLE FLUSH MOUNTED ABOVE WINDOW.
- J-BOX FOR INTERIOR SIGN.
  COORDINATE LOCATION AND MOUNTING HEIGHT WITH INSTALLER.
- THE LOCATION OF THE HVAC DUCT DETECTORS MUST BE CLEARLY INDICATED AT THE FIRE ALARM PANEL.
- (12) FIRE PUMP CONTROLLER. REFER TO SPRINKLER SHOP DRAWINGS.
- (3) JOCKEY PUMP CONTROLLER. REFER TO SPRINKLER SHOP DRAWINGS.
- $\langle 14 \rangle$  J-BOX & 200A/3P/480V/FUSED 200A/N-4 DISCONNECT SWITCH FOR FIRE PUMP. COORDINATE WITH SPRINKLER SHOP DRAWINGS.
- (I5) J-BOX & 30A/3P/480V/FUSED 20A/N-4 DISCONNECT SWITCH FOR JOCKEY PUMP. COORDINATE WITH SPRINKLER SHOP DRAWINGS.
- (6) J-BOX & 30A/3P/208V/NF/N-4 DISCONNECT SWITCH FOR BOOSTER PUMP.
- J-BOX & 30A/2P/208V/FUSED 25A/N-I DISCONNECT SWITCH FOR UNIT HEATER.





PROJECT NO. 2035

12.16.2021

DJP

DRAWN:

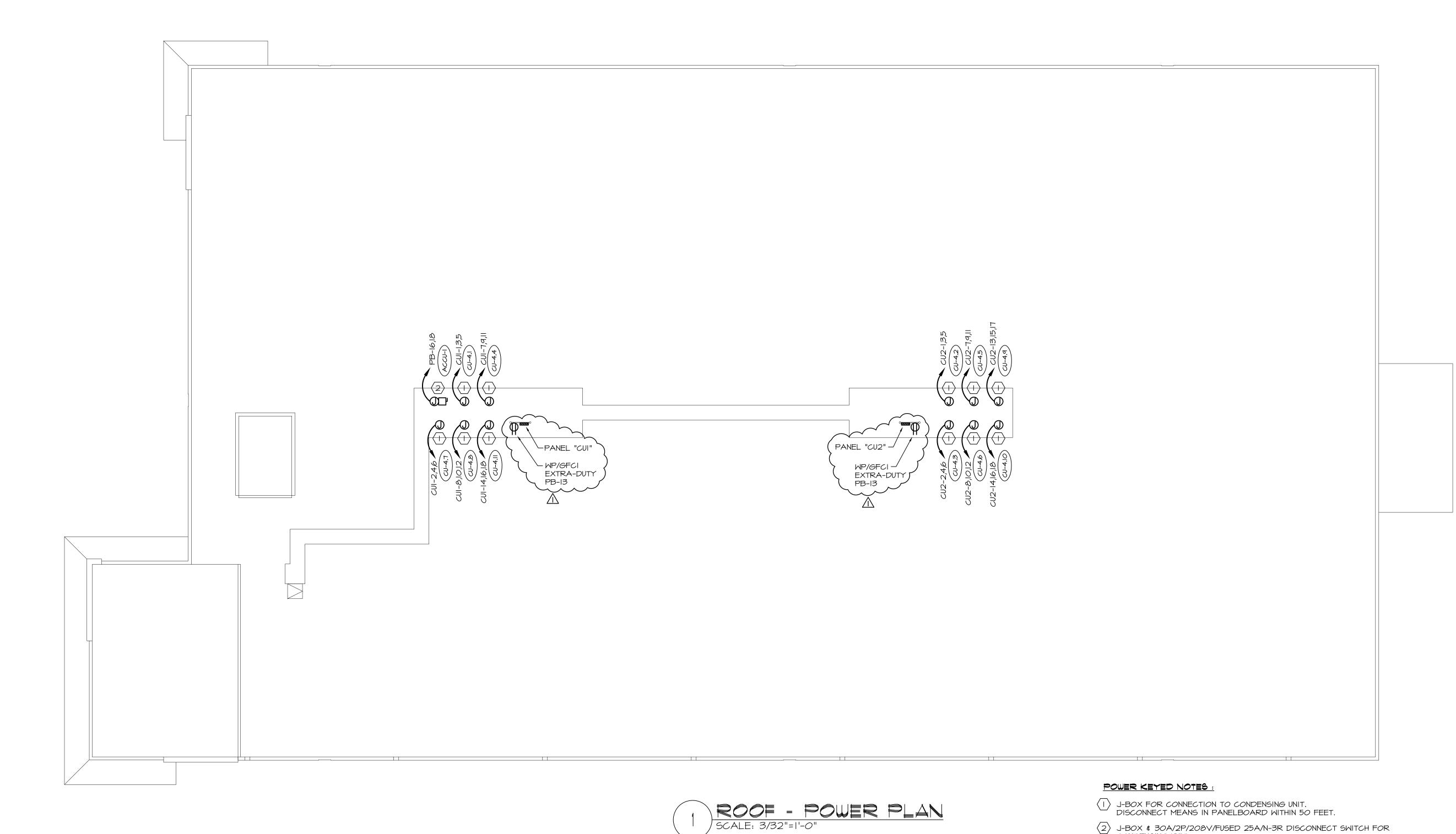
DATE:

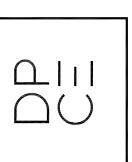
REVISIONS:

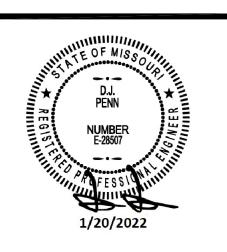
OFFICE POWER

SHEET NO.

E2.4







PROJECT NO. 2035 DATE: 12.16.2021

DJP

DRAWN:

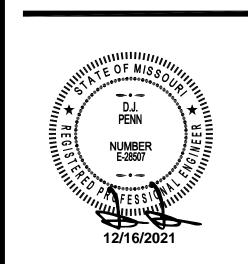
REVISIONS:

ROOF POWER

SHEET NO.

2 J-BOX & 30A/2P/208V/FUSED 25A/N-3R DISCONNECT SWITCH FOR CONDENSING UNIT.

RELEASED FOR CONSTRUCTION



PROJECT NO. 2035 12.16.2021

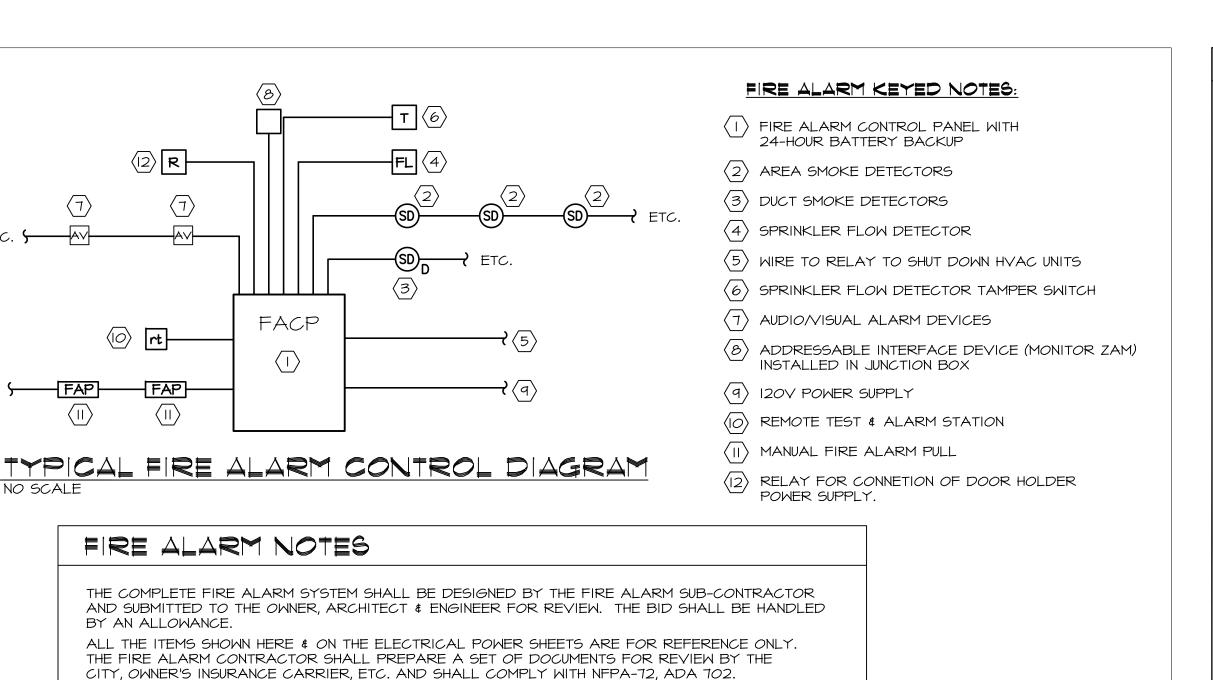
 $\mathsf{DJP}$ 

DATE: **DRAWN:** 

**REVISIONS:** 

**ELECTRICAL** RISER

SHEET NO.



LIGHTING FUNCTIONAL TESTING/COMMISSIONING

REFER TO THE MECHANICAL SHEETS FOR DUCT DETECTOR LOCATIONS.

THE CONTRACTOR SHALL COMPLETE THE TASKS BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM AND SUBMIT WRITTEN DOCUMENTATION DETAILING THE TASKS BELOW. FOR EACH TASK, LIST THE DATE PERFORMED, PERSON COMPLETING THE TASK, THE INITIAL SETTING/CONDITION, ACTIONS PERFORMED, AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBATAINING THE CERTIFICATE OF OCCUPANCY.

DUCT DETECTORS MUST ACTIVATE AS A GENERAL ALARM AND NOT A SUPERVISORY/TROUBLE SIGNAL

- I. ENSURE ALL LIGHTING FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL. 2. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY BALLASTS
- FURNISHED INTEGRAL TO FIXTURES. 3. ENSURE ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL.
- 4. ENSURE ALL WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND OPERATIONAL. 5. ENSURE ALL PHOTOCELLS ARE INSTALLED AND OPERATIONAL
- 6. TEST EACH INDIVIDUAL DEVICE FOR OCCUPANCY SENSOR TYPES:
- 7. VERIFY THE FOLLOWING: 7.1. SENSORS HAVE BEEN LOCATED AND AIMED PER THE MANUFACTURER'S
- RECOMMENDATIONS 7.2. STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT.
- 1.3. DEVICES CONTROL LIGHTING FIXTURES AS INDICATED ON DRAWINGS.
- 7.4. TIME DELAYS HAVE BEEN SET AS INDICATED ON THE DRAWINGS. 7.5. MOVEMENT IN ADJACENT AREAS AND/OR CYCLING OF HVAC SYSTEMS DOES NOT

LONG SWEEP ELBOWS

(TYPICAL)

-UTILITY COMPANY XFMR POLE W/ POLE

-WEATHERHEAD

300 A.F

480V/30

DISC SW

N-3R

→ GROUND PER NEC (250)

TRANSOCKET

CABLE

#8 CU GND.

MOUNTED TRANSFORMERS.

#### FALSE TRIGGER SENSORS

ETC. **FAP FAP** 

FIRE ALARM NOTES

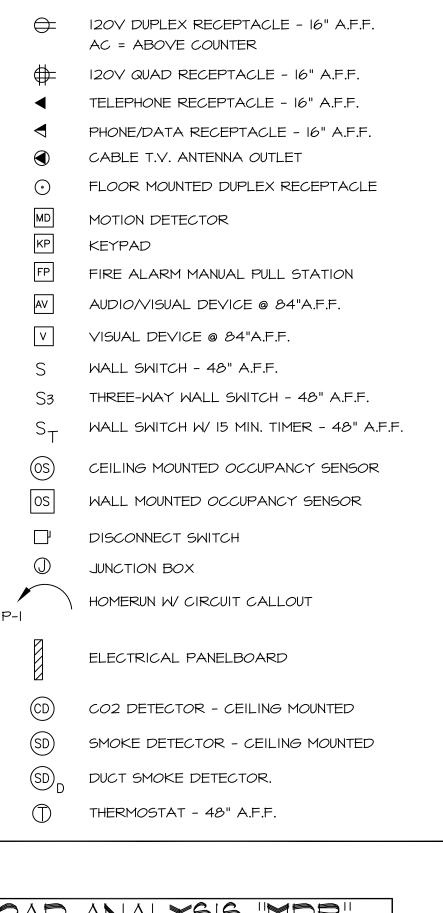
- (1) UNDERGROUND SERVICE LATERAL FROM POLE MOUNTED TRANSFORMERS. INSTALLED PER UTILITY COMPANY STANDARDS. (2-SETS) 3 #3/0 AL THW (H), I #3/0 CU THW (N), 3" C. LONG SWEEP RADIUS ELBOWS ONLY.
- (2) 2" CONDUITS FOR TELEPHONE & CABLE SERVICE. COORDINATE SERVICE
- FROM STREET TO BUILDING WITH LOCAL PROVIDER.

(3a) #6 CU. GND. TO 3/4"x 8'-0" DRIVEN GROUND ROD. INSTALL PER NEC 250.

- (36) #4 GND. TO FOUNDATION REBAR. INSTALL PER NEC 250.
- (3c) #2 GND. TO COLD WATER PIPE. INSTALL PER NEC 250.

ELECTRICAL RISER KEYED NOTES :

- (3d) #2 CU. GND. TO BUILDING STEEL. INSTALL PER NEC 250.
- (3e) #1/0 GND. TO COLD WATER PIPE. INSTALL PER NEC 250.
- (3f) #1/0 CU. GND. TO BUILDING STEEL. INSTALL PER NEC 250.
- (4) 3 #350 KCMIL CU THW (H), I #350 KCMIL CU THW (N)., 3" C.
- $\langle 5 \rangle$  4 #350 KCMIL CU THW., I #1/0 GND., 3" C.
- $\langle 6 \rangle$  3 #1 THW, I #6 GND., I-1/2" C.
- (7) 4 #3/0 THW, I #6 GND., 2" C.
- (8) 4 #2 THW, I #8 GND., I-1/2" C.
- $\langle 4 \rangle$  4 #2/0 THW, I #8 GND., 2" C.
- $\langle O \rangle$  (2-SETS) 3-300 KCMIL AL THW(H), I-300 KCMIL AL THW(N), EACH IN 3" C. (RED DYE CONCRETE ENCASED) UNDER DRIVEWAY
- (1) (2-SETS) 3 #4/0 CU THW(H), I #4/0 CU THW(N), EACH IN 3" C.
- (12) 75 KVA DRY TYPE TRANSFORMER 480 V. "DELTA" PRIMARY 120/ 208 V. "WYE" SECONDARY MOUNT ON FLOOR. #6 CU. GND. TO BUILDING STEEL SQUARE D #EXN75T3H



ELECTRICAL SYMBOLS LEGEND

LOAD	CONNECTED	FACTOR	DEMAND
SIGNAGE	3.6 KW	1.25	4.50 KW
LIGHTING 120V	1.3 KW	1.25	1.63 KW
LIGHTING-SENSOR 120V	5.1 KW	1.00	5.10 KW
LIGHTING 277V	10.53 KM	1.25	13.16 KW
CONV. OUTLETS	10.0 KW	1.00	10.00 KW
CONV. OUTLETS	4.05 KM	0.50	2.03 KW
AIR COND. 480V	82.34 KW	1.00	82.34 KW
HEATING 480V	-0- KW	1.00	-0- KW
AIR COND. 208V	20.81 KW	1.00	20.81 KW
HEAT 208V	19.6 KW	1.00	-0- KW
MOTOR	1.55 KM	1.25	1.94 KW
MOTORS	7.45 KW	1.00	7.45 KW
WATER HEATERS	1.5 KW	1.00	1.50 KW
ELEVATORS 480V	90.0 KW	0.95	85.50 KW

LOAD	CONNECTED	FACTOR	DEMAND
SIGNAGE	3.6 KW	1.25	4.50 KW
LIGHTING 120V	1.3 KW	1.25	1.63 KW
LIGHTING-SENSOR 120V	5.1 KM	1.00	5.10 KW
LIGHTING 277V	10.53 KM	1.25	13.16 KW
CONV. OUTLETS	10.0 KM	1.00	10.00 KW
CONV. OUTLETS	4.05 KM	0.50	2.03 KW
AIR COND. 480V	82.34 KW	1.00	82.34 KW
HEATING 480V	-0- KM	1.00	-0- KW
AIR COND. 208V	20.81 KW	1.00	20.81 KW
HEAT 208V	19.6 KW	1.00	-0- KW
MOTOR	1.55 KM	1.25	1.94 KW
MOTORS	7.45 KM	1.00	7.45 KW
WATER HEATERS	1.5 KM	1.00	1.50 KW
ELEVATORS 480V	90.0 KW	0.95	85.50 KW
	TOTAL	DEMAND=	235.96 KW
235,960 W	.@ 480V./3Φ = 1	284 A.	

	235,960 Ν.@ 480V./3Φ = 284 A.	TRANSOCKET, TERMINATIONS, DUCT B SUBMITTAL REQUIREMENTS TO OBTAI	BANK, AS WELL AS SERVICE APPLICATION AND IN AN ELECTRICAL SERVICE.	
R <i>00</i> F	PANEL "CU1" PANEL "CU2"	PROVIDE CONTACTOR PANEL WITH AS INTERIOR AND ALL EXTERIOR AND LIG FOR AUTOMATIC SHUT OFF REQUIREM CONTRACTOR SHALL INCLUDE ALL CO WITH A FULLY FUNCTIONING AND PRO A PERMANENTLY AFFIXED LABEL SHALL AT THE TIME OF THE CALCULATION. TO	MMISSIONING REQUIRED TO PROVIDE THE OWNER	WHEN FIRE PUMP POWER SUPPLY CONDUITS ARE NOT ROUTED OUTSIDE BUILDING, IN PUMP ROOM OR IN ELEC. ROOM, ENCASE UNDERGROUND IN AT LEAST 2" OF RED CONCRETE.  FIRE PUMP OVER CURRENT REQUIREMENTS:  a. NOT TO OPEN WITHIN 2 MINUTES AT 600% FULL LOAD CURRENT b. NOT OPEN WITHIN 10 MINUTES OF 300% FULL LOAD CURRENT d. TRIP POINT FOR CIRCUIT BREAKERS SHALL NOT BE FIELD ADJUSTABLE.
ELEC ROOM	MAIN DISTRIBUTION PANELBOARD "MDP" 400A ML0 2TTI/480V/30/4W NEMA-I  A  SEMAN S	ANSOCKET TER  "FP" 600 AMP 450 AF 480V/3¢ DISC SW. N-3R  3e  3f	3 #IO THW., I #8 GND. I"C.  JOCKEY PUMP 3 HP DISC. SW.  JOCKEY PUMP CONTROLLER WITH INTERNAL DISCONNECT AND OVERCURRENT PROTECTION  4 #4 THWI COPPER,	
	#6—	(36)		

ELECTRICAL RISER DIAGRAM

LENGTH APPROXIMATED AT 300 FEET 1.732x(0.0707R/2)x300'x450A/1000'=8.265/480x100=1.72VD

TYPE

ΑE

CE

DE

ΘE

ME

LAMPS

44W LED

44W LED

150W

E26

24W LED

46W LED

46W LED

2IW LED

46W LED

46W LED

12W LED

12W LED

60W LED

35W LED

35W LED

ITW LED

27W LED

27W LED

39W LED

56W LED

56W LED

LED

SURFACE

SURFACE

SURFACE

RECESSED

MALL

MALL

MALL

LAY-IN

LAY-IN

MALL

MALL

SURFACE

PENDANT

PENDANT

PENDANT

RECESSED

RECESSED

SURFACE

SURFACE

SURFACE

UNIVERSAL

I. ALL LIGHT FIXTURES SHALL BE SUBMITTED & APPROVED BY THE OWNER PRIOR TO THE ORDER OR INSTALLATION OF ANY FIXTURE.

> FIRE PUMP LOAD ANALYSIS "FP CONNECTED FACTOR DEMAND 43.23 KVA | 1.25 | 54.04 KVA FIRE PUMP JOCKEY PUMP 3.99 KVA 3.99 KVA 1.00 TOTAL BUILDING DEMAND = 58.03 KVA

> > 58,030 VA @ 480V./3Φ = 70 A.

CONTRACTOR SHALL COORDINATE ALL FINAL ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL UTILITY, THIS INCLUDES BUT IS NOT LIMITED TO SERVICE CONDUCTORS, METER.
TRANSOCKET, TERMINATIONS, DIJCT BANK, AS WELL AS SERVICE APPLICATION AND

LIGHTING FIXTURE SCHEDULE

LEVITON #49875

MVOLT | LED EXTERIOR WALL-PACK

EXTERIOR SCONCE

LED PENDANT

MVOLT 4.5' LED FIXTURE

MVOLT 4.5' LED FIXTURE

LED RECESSED DOWNLIGHT

120/277 EXIT LIGHT W/ 90 MINUTE BACKUP BATTERY

LITHONIA #EXR-LED-EL-M6

INSTALLATION.

120/277 2'X4' LED TROFFER

120/277 8' LED STRIP

WAC #WS-77624-30-AL

LSI #SDL4-LED-60L-FL-UNV-DIMI-40-80CRI

LIGHT FIXTURE W/ MOTION DETECTOR.

LED EXTERIOR RECESSED DOWNLIGHT

120/277 24" LED VANITY FIXTURE. MOUNT @ 7'-2" AFF

LITHONIA #2FSL4-6OL-EZI-LP840

LITHONIA #2FSL4-6OL-EZI-LP84O-EL7L

VISA LIGHTING #OW5524-L35K-MVOLT-BRNZ

VISA LIGHTING #OW5524-L35K-MVOLT-BRNZ

LSI #SDL8-LED-80L-FL-UNV-DIMI-40-80CRI

LED PENDANT W/ 90 MINUTE BATTERY BACKUP

LITHONIA #LDN6-40/25-L06AR-LD-MVOLT-EZIO

MVOLT | LED RECESSED DOWNLIGHT W/ 90 MINUTE BATTERY BACKUP

LSI #SDL4-LED-50L-FL-UNV-DIMI-40-80CRI-EMI0

CONTRACTOR SHALL COORDINATE # OF SIDES,

MOUNTING & DIRECTIONAL ARROWS W/ PLAN

& LOCAL INSPECTOR, COORDINATE PRIOR TO

LITHONIA #VAP-6000LM-FST-MD-MV0LT-GZI0-40K-80CRI

LITHONIA #VAP-6000LM-FST-MD-MV0LT-GZI0-40K-80CRI

LITHONIA #LDN6-40/25-L06AR-LD-MVOLT-EZIO-EL

IOTA #ILB-SL-CPO8-HE, BATTERY BACKUP

IOTA #ILB-SL-CPO8-HE, BATTERY BACKUP

120/277 | 4' LED STRIP W/ 90 MIN. EMERGENCY BATTERY BACKUP

W/ 90 MINUTE EMERGENCY BATTERY BACKUP

MVOLT EXTERIOR WALL-PACK W/90 MINUTE BATTERY BACKUP

LSI #SDL4-LED-60L-FL-UNV-DIMI-40-80CRI-EMIO

LITHONIA #LDN6-35/20-L06AR-LD-MVOLT-EZIO-EL

120/277 | 2'X4' LED TROFFER W/ 90 MIN. EMERGENCY BATTERY BACKUP

EXTERIOR SCONCE W/ 90 MINUTE BATTERY BACKUP

LITHONIA #LDN6CYL-40-30-L06-AR-LD-MVOLT-GZIO-PM-DWH

LITHONIA #LDN6CYL-40-30-L06-AR-LD-MVOLT-GZIO-PM-DWH

120/277 | 4' LED WALL MOUNTED FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP

PRUDENTIAL LTG. #SDOT-LED35-HO-NU-TMW-SC-UNV-EBCPIG-TMW-DMOI

LITHONIA #DSXWI-LED-20C-700-40K-T2M-MVOLT-DNAXD

LITHONIA #D5XWI-LED-20C-700-40K-T2M-MV0LT-ELCW-DNAXD

MOUNTING VOLTAGE DESCRIPTION/ CATALOG NO.

120/277 | 4' LED STRIP

120

MVOLT

120

120

MVOLT

MVOLT

120

MVOLT

NOTES:

I. PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.

#12 37 3RD FLOOR - CORRIDOR LIGHTS 20 3300 15000

20

20

VA LOAD PER PHASE 85803

#12 39 STAIRWELL LIGHTS

(3) #12 | 41 | EXTERIOR LIGHTS

277/2	180	VOLT / 3 PHASE / 4 WIRE		100A	MAIN LUG	ONLY		MOUNTING	: SURFAC	E
I SE	CTIC	DN: SINGLE LUGS			NEMA-3R			14,000 A.	.C. RATIN	16
IRE	CKT	DESCRIPTION	C.B.	ΦA LOAD	ΦB LOAD	ΦC LOAD	C.B.	DESCRIPTION	CKT	MIR
‡I2	1	CU-4.I	15 /	2495 2495			15 /	CU-4.7	2	#12
‡I2	3	п			2495 2495			п	4	#12
ŧ12	5	п	3			2495 2495	3	п	6	#12
‡I2	7	CU-4.4	15 /	2495 2495			15 /	CU-4.8	8	#12
‡I2	9	п			2495 2495			п	10	#12
‡I2	П	п	3			2495 2495	3	II .	12	#12
-	13	-	- <	- 2495			15 /	CU-4.II	14	#12
-	15	-	-		- 2495			II .	16	#12
-	17	-	-			- 2495	3	п	18	#12
-	19	-	- <	<u>-</u> -			-	-	20	-
-	21	-	-		-		-	-	22	-
-	23	-	-			-	-	-	24	-
-	25	-	- <	-			-	-	26	-
-	27	-	-		-		-	-	28	-
-	29	-	-			-	<b>-</b>	-	30	-

NOTES:

I. PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.

PANELBOARD "CU2" 2TT/480 VOLT / 3 PHASE / 4 WIRE 100A MAIN LUG ONLY							MOUNTING	MOUNTING: SURFACE			
1 5	CTIC	N: SINGLE LUGS			NEMA-3R			14 <i>,000</i> A.	I.C. RATIN	6	
IIRE	CKT	DESCRIPTION	C.B.	ΦA LOAD	ΦB LOAD	ΦC LOAD	C.B.	DESCRIPTION	CKT	WIRE	
#12	1	CU-4.2	15 /	2495 2495			15 /	CU-4.3	2	#12	
#12	3	П	$\neg$		2495 2495			п	4	#12	
#12	5	II	/ 3			2495 2495	3	П	6	#12	
#12	7	CU-4.5	15 /	2495 2495			15 /	CU-4.6	8	#12	
#12	9	п			2495 2495			II .	10	#12	
#12	П	п	/ 3			2495 2495	3	II .	12	#12	
#12	13	CU-4.9	15 /	2495 2495			15 /	CU-4.10	14	#12	
#12	15	П	$\Box$ /		2495 2495			п	16	#12	
#12	17	п	/з			2495 2495	3	п	18	#12	
-	19	-	- <				-	-	20	-	
-	21	-	-		-		-	-	22	-	
-	23	-	-			-	-	-	24	-	
-	25	-	- <	<u>-</u> -			-	-	26	-	
-	27	-	-		-		-	-	28	-	
-	29	-	-			1	-	-	30	-	

NOTES:

I. PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.

#### PANEL KEYED NOTES:

- 1 LOCK-ON BREAKER
- 2 DEDICATED CIRCUIT W/ SEPARATE GROUND
- (3) RUN CIRCUIT THRU PHOTOCELL

120/2	208 \	VOLT / 3 PHASE / 4 WIRE			MAIN BRE	AKER		MOUNTING: S	URFAC	Æ
I SE	CTIC	DN: SINGLE LUGS			NEMA-I			10,000 A.I.C.	RATIN	16
AIRE	CKT	DESCRIPTION	C.B.	ΦA LOAD	ΦB LOAD	ΦC LOAD	C.B.	DESCRIPTION	CKT	MIR
#12	1	OUTLETS-IST FLOOR	20 (	400 400			20	DOOR MOTOR-IST FLOOR	2	#6
#12	3	LIGHTING-STORAGE IST FLOOR	20		1500 360		20	OUTLETS-ELECTRICAL ROOM	4	#12
#12	5	LIGHTING-STORAGE IST FLOOR	20			1500 200	20	ELEVATOR CAR LIGHTS/FAN	6	#10
-	7	-	- (	- 292			20	ELEVATOR PIT OUTLET/LIGHTS	8	#10
-	9	-	-		- 600		20	ELEVATOR SUMP PUMP	10	#4
-	Ш	-	-			- 240	20	ELEVATOR RMOUTLET/LT	12	#10
#4	13	AHU-4.I	20 (	1495 180			20	CONDENSATE PUMP	14	#10
#8	15	AHU-4.2	20/		1495 -		-	-	16	-
#6	17	AHU-4.3	/2			1495	> <b>-</b>	-	18	-
#10	19	DEHUMIDIFIER DH-I	20/	775 600			20	LOADING AREA DOOR MOTOR	20	#4
#10	21	II .	/2		775 500		20	EF-3	22	#4
#6	23	ROLL-UP DOOR MOTOR	20/			500 1600	25/	UNIT HEATER-I	24	#8
#6	25	П	2 '	500 1600		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/2	11	26	#8
#6	27	ROLL-UP DOOR MOTOR	20/		500 1600		25/	UNIT HEATER-2	28	#10
#6	29	п	/2			500 1600	/2	п	30	#10
#2	31	PANEL "PB"	100/	6430 1600			25/	UNIT HEATER-3	32	#6
#2	33	II .			7204 1600		/2	п	34	#6
#2	35	II .	3			7049 2500	30/	UNIT HEATER-4	36	#4
#2/0	37	PANEL "RP"	100/	5278 2500			/2	п	38	#4
#2/0	39	п			7437 2500		30/	UNIT HEATER-5	40	#4
#2/0	41	II .	3			6655 2500		п	42	#4

I. PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.

38 #2

40 #2

42 #2

284 AMPS

100/ ELEVATOR

85516

86502

CONNECTED LOAD = 257.82 KW DEMAND LOAD = 235.96 KW

			<b>P</b> ,	ANELE	30AF	D "P	<b>B</b> "			
120/2	208 \	VOLT / 3 PHASE / 4 WIRE		100A	MAIN LUGS	ONLY		MOUNTING:	SURFAC	Œ
1 5	ECTIC	DN: SINGLE LUGS			NEMA-I			IO,000 A.I	.C. RATIN	16
MIRE	CKT	DESCRIPTION	C.B.	ΦA LOAD	ΦB LOAD	ΦC LOAD	C.B.	DESCRIPTION	CKT	MIRE
#12	ı	DOOR HOLD-2ND FLOOR	20	100			20	AHU-4.4	2	#4
#10	3	DOOR MOTOR-2ND FLOOR	20		400 1495		20	AHU-4.5	4	#10
#10	5	OUTLETS-2ND FLOOR	20			720 1495	20	AHU-4.6	6	#6
#10	7	LIGHTING-STORAGE 2ND FLOOR	20	1050 1495	_		20	AHU-4.7	8	#6
#10	9	LIGHTING-STORAGE 3RD FLOOR	20		1050 1495		20	AHU-4.8	10	#4
#10	П	OUTLETS-3RD FLOOR	20			720 1495	20	AHU-4.9	12	#10
#10	13	OUTLETS-ROOF	20	360 1495	_		20	AHU-4.10	14	#6
#6	15	PE-I	15		145 2184	_	25/	ACCU-I	16	#6
#10	17	PE-2	15			145 2184	/2	П	18	#6
#6	19	PE-3	15	145			-	-	20	-
#10	21	PE-4	15		145 -		1	-	22	-
#6	23	PE-5	15			145 -	<b>-</b>	-	24	-
#6	25	PE-6	15	145	_		-	-	26	-
#8	27	PE-7	15		145 -		-	-	28	-
#6	29	PE-8	15			145 -	<b>-</b>	-	30	-
#6	31	PE-9	15	145			-	-	32	-
#6	33	PE-IO	15		145 -		-	-	34	-
-	35	-	-			-	<b>-</b>	-	36	-
-	37	-	-				_	-	38	-
-	39	-	-		-		-	-	40	-
-	41	-	-			-	<b>-</b>	-	42	-
		VA LOAD PER PH	HASE	6430	7204	7049		ECTED LOAD = 20.68 KW AND LOAD = 20.72 KW	58 A	MPS

I. PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.

120/2	208 \	VOLT / 3 PHASE / 4 WIRE		100A	MAIN LUGS	ONLY		MOUNTING:	SURFAC	E
1 5	ECTIC	PN: SINGLE LUGS			NEMA-I			10,000 A.I.	.C. RATIN	6
MIRE	CKT	DESCRIPTION	C.B.	ΦA LOAD	ΦB LOAD	ΦC LOAD	C.B.	DESCRIPTION	CKT	MIRE
#12	ı	EXTERIOR LIGHTS	20	100	_		20	ALARM	2	#12
#12	3	RETAIL LIGHTS/FANS	20		1177		20	FACP	4	#12
#12	5	INTERIOR SIGN	20			200 360	20	OUTLETS-POS	6	#12
-	7	-	-	360			20	OUTLETS-POS	8	#12
-	9	-	-		- 360		20	OUTLETS-COUNTER	10	#12
-	Ш	-	-			- 360	20	OUTLETS-COUNTER	12	#12
-	13	-	-	360			20	OUTLETS-BACK COUNTER	14	#12
-	15	-	-		- 540		20	OUTLETS-MONITORS	16	#12
-	17	-	-			900	20	OUTLETS-SALES	18	#12
-	19	-	-	- 540			20	OUTLETS-WINDOW	20	#12
-	21	-	-		800		20	OUTLET-COFFEE BAR	22	#12
-	23	-	_			- 180	20	TELEPHONE BOARD	24	#12
-	25	-	_	360	-		20	MDF-OUTLET	26	#12
-	27	-	-		- 360		20	MDF-OUTLET	28	#12
-	29	-	-			- 360	20	MDF-OUTLET	30	#12
#12	31	GATE KEYPADS	20	200 1200			20	OUTLET-MICROWAVE	32	#12
#10	33	GATE MOTOR	20		600 800		20	OUTLET-REFRIGERATOR	34	#12
#12	35	GATE MOTOR	20			600 1200	20	OUTLET-COFFEE	36	#12
#10	37	BUILDING SIGN	20	1200 910			20	OUTLETS-TOILET RMS/DF	38	#12
#12	39	BUILDING SIGN	20		1200 1500		20	WATER HEATER	40	#12
#12	41	BUILDING SIGN	20			1200 1495	20	AHU-4.II	42	#12

I. PROVIDE A TYPED INDEX CARD IDENTIFYING ALL CIRCUITS.

CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit Missouri

RELEASED FOR

1301 Solana Blvd. Bldg. 1, Suite 1420 Westlake, TX 76262 +1 817 410 2858





# SHORAGE STORESIVE

PROJECT NO. 2035

DATE: 12.16.2021

DJP

REVISIONS:

DRAWN:

ELECTRICAL SCHEDULES

SHEET NO.

E3.2

#### GENERAL ELECTRICAL NOTES: (AS APPLICABLE)

GI. COMPLETE SYSTEMS: PROVIDE LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION TO RECEIVE, INSTALL, ADJUST, AND PUT INTO OPERATION COMPLETE ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. PROVIDE PRODUCTS NOT MENTIONED BUT OBVIOUSLY NECESSARY AND INCIDENTAL TO THE COMPLETION OF THIS WORK

G2. SCOPE: WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: MECHANICAL WORK AS REQUIRED FOR COORDINATION, POWER DISTRIBUTION, FIRE ALARM SYSTEM, AND INSTALLATION OF MATERIALS.

G3. UTILITIES: COORDINATE WITH ALL UTILITY SERVICES. NOTIFY
UTILITIES OF COMMENCEMENT OF WORK. MAKE ALL ARRANGEMENTS FOR
TEMPORARY SERVICES. PROVIDE ALL WORK AND MATERIALS NECESSARY TO
COMPLY WITH ALL UTILITY REGULATIONS AND REQUIREMENTS.

64. PERMITS: OBTAIN ALL NECESSARY PERMITS TO BEGIN AND CONTINUE WITH WORK. PAY ALL ASSOCIATED FEES FOR PERMITS AND OTHER MUNICIPAL AND GOVERNING REQUIREMENTS.

65. EXPERIENCE: ALL WORK DONE SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS, UNDER THE SUPERVISION AND DIRECTION OF A SUPERINTENDENT HAVING SUCCESSFUL EXPERIENCE INSTALLING AND SUPERVISING EQUIPMENT AND SYSTEMS OF SIMILAR TYPE AND SIZE AS INDICATED BY CONTRACT DOCUMENTS.

G6. REGULATIONS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT RULES, REGULATIONS, AND INDUSTRY STANDARDS OF THE N.E.C., UL, IPCEA, NEMA, NFPA, OSHA, NATIONAL ELECTRICAL SAFETY CODE, AND ANY LOCAL CODES, LAWS, ADA OR ORDINANCES.

IN THE EVENT THAT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

GT. COSTS AND CONDITIONS: EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SURVEY THE PROJECT AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND SCOPE OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED. ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

68. SPECIFICATIONS: BECOME FAMILIAR WITH ALL SPECIFICATIONS, DESIGN CRITERIA, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. REFERENCE SPECIFICATIONS FOR DEVICES, MATERIALS AND WORKMANSHIP REQUIREMENTS. ADDITIONAL REQUIREMENTS ARE GIVEN IN THESE NOTES AND THE DRAWINGS. THERE SHALL BE NO DEVIATION FROM SPECIFICATIONS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

69. COORDINATION: COORDINATE WORK WITH ALL OTHER TRADES. GIVE SPECIAL CONSIDERATION TO COORDINATING INSTALLATION OF LIGHTING, SPRINKLER PIPING, AND DUCTWORK. COORDINATE WALL OUTLET LOCATIONS WITH MILLWORK. COORDINATE WALL SWITCHES WITH DOOR SWINGS. VERIFY EXACT LOCATION, COLOR AND FINISH OF OUTLETS AND DEVICES WITH INTERIOR DESIGNER, ARCHITECT, OR DESIGNATED TENANT REPRESENTATIVE PRIOR TO INSTALLATION.

GIO. PRODUCTS: ALL PRODUCTS SHALL BE NEW, SPECIFICATION GRADE.
PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND
MANUFACTURER. PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS
REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS
OTHERWISE REQUIRED BY DRAWINGS. ALL PRODUCTS SHALL BE
CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NATIONALLY
RECOGNIZED AND ACCEPTED STANDARDS AND PROCEDURES.

GII. COMPATIBILITY: ALL NEW ELECTRICAL DISTRIBUTION EQUIPMENT SHALL MATCH AND BE COMPATIBLE WITH EXISTING EQUIPMENT, BY MANUFACTURER TYPE, APPLICATION, AND SHORT CIRCUIT RATING.

GI2. IDENTIFICATION: ALL ELECTRICAL DISTRIBUTION EQUIPMENT, TRANSFORMERS, PANELBOARDS AND OTHER ENCLOSED EQUIPMENT SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS. SAID IDENTIFICATION SHALL CONSIST OF PERMANENTLY ATTACHED ENGRAVED LAMINATED PLASTIC NAMEPLATES. EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND SCHEDULED INSIDE PANEL DOOR. EACH BRANCH CIRCUIT SPLICE OR TERMINATION SHALL BE IDENTIFIED BY PANEL AND CIRCUIT DESIGNATION SHOWN ON THE JUNCTION OR OUTLET BOX, OR UPON INDIVIDUAL WIRES IN CASES WHERE MORE THAN ONE OF EACH PHASE CONDUCTOR OCCUR.

GI3. WIRING: ALL CONDUCTORS CARRYING GREATER THAN 50 VOLTS SHALL BE MINIMUM #12 AWG, SOLID, CU, SOFT DRAWN OF 98% CONDUCTIVITY, UNLESS NOTED OTHERWISE.

INSULATION: PROVIDE TYPE THW, THWN, THHN, OR XHHW TYPE INSULATIONS. COORDINATE INSULATION TYPES WITH CONDITIONS, NEC REQUIREMENTS, AND CONDUIT FILL REQUIREMENTS. ALL WIRING SIZES ARE BASED ON 60° C OR 75° C INSULATION, ACCORDING TO CURRENT RATING, REGARDLESS OF ACTUAL INSULATION USED. TYPE "AC" OR "MC" CABLE IS ACCEPTABLE ONLY WITH TYPE THHN INSULATION.

HOME RUNS: PROVIDE MINIMUM # 10 AWG WIRING ON ALL HOMERUNS GREATER THAN 100 FEET.

NEUTRALS: SIZE ALL NEUTRALS FULL UNLESS SPECIFICALLY REDUCED ON PLANS. PROVIDE OVERSIZED NEUTRALS FOR FEEDERS AND SEPARATE NEUTRALS FOR BRANCH CIRCUITS SERVING DIGITAL COMPUTER EQUIPMENT.

#### COLORS:

PHASE:	208V WYE	240V DELTA	480V
А В С	BLACK RED BLUE	BLACK ORANGE (HIGH LEG) BLUE	BROWN ORANGE YELLOW
NEUTRAL	MHITE	WHITE	WHITE W/ COLORED STRIP
GROUND	GREEN	GREEN	GREEN

GI4. GROUNDING: ALL CIRCUITS SHALL BE RUN WITH A #12 AWG
INSULATED GREEN COPPER GROUND WIRE, UNLESS OTHERWISE NOTED. USE
OF CONDUIT AS A GROUND IS UNACCEPTABLE.

AT SERVICE: PROVIDE BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS. PROVIDE GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES PER NEC.

GI5. CONDUIT: ALL WIRING SHALL BE IN CONDUIT, MINIMUM I/2" (E.M.T. IS ACCEPTABLE WITH COMPRESSION FITTINGS ONLY ). FLEXIBLE METAL CONDUIT IS ACCEPTABLE ONLY WITH SEPARATE INSULATED GROUND WIRE, AND ONLY FOR SWITCH DROPS OR LIGHTING FIXTURE WHIPS. ENT, ALUMINUM CONDUIT, NM ("ROMEX"), NMC, AND SNM ARE NOT ACCEPTABLE.

RIGID CONDUIT: CONDUIT OVER 2" IN DIAMETER; OR EXPOSED TO WEATHER; OR EXPOSED TO POTENTIAL DAMAGE; OR USED FOR SERVICE ENTRANCE SHALL BE GALVANIZED RIGID STEEL TYPE.

PVC CONDUIT: PVC CONDUIT, MINIMUM SCHEDULE 40, IS ACCEPTABLE ONLY FOR USE BELOW GRADE, AND ONLY WHEN INSTALLED WITH WIDE RADIUS RIGID STEEL TURNS.

ROUTING: CONDUIT ROUTING SHOWN IS SYMBOLIC AND DIAGRAMMATIC INSTALL CONDUIT TO FIT ACTUAL FIELD CONDITIONS.

BELOW GRADE: COVER METALLIC CONDUIT BELOW GRADE WITH ASPHALTUM OR BITUMASTIC TAPE. SEAL JOINTS AGAINST WATER.

GI6. CONDUIT FITTINGS: ALL FITTING SHALL BE COMPRESSION OR THREADED TYPE. USE OF SET SCREW FITTINGS IS NOT ACCEPTABLE.

GIT. CIRCUIT BREAKERS: ALL BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICES SHALL BE 20 AMPERE INVERSE TIME TYPE CIRCUIT BREAKERS UNLESS NOTED OTHERWISE. I20/240 VOLT CIRCUIT BREAKERS SHALL BE RATED AT I0,000 AIC MINIMUM. MULTI- POLE BREAKERS SHALL BE INTEGRAL UNITS. USE OF HANDLE TIES IS NOT ACCEPTABLE.

GI8. FUSES: ALL FUSES 600 AMPERES OR LESS SHALL BE UL LISTED, CLASS RKI OR J, LOW-PEAK, DUAL ELEMENT, TIME DELAY, 600 VOLT. ACCEPTABLE MANUFACTURERS: BUSSMAN, GOULD SHAWMUT.

GI9. PENETRATIONS: ALL PENETRATIONS THROUGH FIRE-RATED SLABS AND PARTITIONS SHALL BE FIRE PROOFED TO THE SAME OR GREATER RATING THAN THAT OF THE SLAB OR PARTITION. WHERE CONFLICTS OCCUR, NOTIFY ARCHITECT OR INTERIOR DESIGNER.

G20. ALTERNATES & SUBSTITUTIONS: SUBMIT FOR APPROVAL ALTERNATES OF ALL ITEMS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BEAR THE BURDEN OF SHOWING PROOF THAT ALTERNATES REQUESTED FOR SUBSTITUTION PERFORM IN AN EQUAL OR SUPERIOR MANNER TO THE SPECIFIED ITEM. INFORMATION SUBMITTED FOR ENGINEER'S CONSIDERATION SHOULD INCLUDE PERFORMANCE CHARACTERISTICS, ILLUSTRATION OF FIELD APPLICATION, AND COMPARISON OF THE SPECIFIED ITEM TO THE INTENDED ALTERNATE.

"ALTERNATE" REFERS TO A LUMINAIRE, FIXTURE, DEVICE, EQUIPMENT ITEM, OR MANUFACTURER OTHER THAN THAT SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

621. SHOP DRAWINGS & SUBMITTALS: SUBMIT MANUFACTURERS' STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, PHYSICAL DIMENSIONS, AND OTHER INFORMATION NECESSARY FOR ENGINEER TO INSURE COMPLIANCE WITH SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT.

G22. PROJECT RECORD DOCUMENTS: UPON COMPLETION OF WORK, PREPARE LIGHTING AND POWER PROJECT RECORD DOCUMENTS ("AS-BUILTS") ON A SUITABLY REPRODUCIBLE MEDIUM (MYLAR OR VELLUM). PRESENT COMPLETED DRAWINGS TO TENANT, AND TWO SETS OF PRINTS TO INTERIOR DESIGNER OR ARCHITECT. "AS-BUILT" DRAWINGS SHALL INCLUDE ALL BRANCH CIRCUIT WORK, ANY PANELBOARD INFORMATION AVAILABLE, FINAL SWITCHING, ETC.

623. WARRANTY: WARRANT ALL MATERIALS, EQUIPMENT AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY TENANT.

TEMPORARY SERVICES
THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

TEMPORARY SERVICES:

A. TELEPHONE - THE GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY ARCHITECT & OWNER OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

- B. TEMPORARY WATER WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.
- C. TEMPORARY ELECTRICITY TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.
- D. TEMPORARY HEAT WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE OWNER OR LOCAL AUTHORITY.

#### PANELBOARDS: (AS APPLICABLE)

THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ELECTRICAL DRAWINGS FOR SPECIFIC PANELBOARD REQUIREMENTS. THE PANEL BOARD SCHEDULE SPECIFY VOLTAGE CHARACTERISTICS, MAINS, LUG SIZE, LOCATION AND NUMBER, BRANCH CIRCUIT SIZE NUMBER AND LOCATION. ALSO MOUNTING METHOD AND TRIM.

APPROVED MANUFACTURERS ARE SQUARE "D", WESTINGHOUSE, GENERAL ELECTRIC, OR EQUAL.

THE ABOVE EQUIPMENT SHALL BE FACTORY ASSEMBLED UNIT ONLY NOT ASSEMBLY OF MISCELLANEOUS PARTS.

PANELBOARD ENCLOSURE SHALL BE CODE GAUGE GALVANIZED SHEET STEEL, WITH CORNERS LAPPED AND RIVETED OR FORMED THE ENCLOSURE SHALL BE PAINTED AS SPECIFIED HEREIN.

PANELBOARD TRIM SHALL BE FOR SURFACE OR RECESSED MOUNTING MOUNTING AS INDICATED BY THE PANEL SCHEMATICS. TRIM SHALL BE FULL FINISH SHEET STEEL FASTENED TO CABINET (ENCLOSED) BY APPROVED ADJUSTABLE CLAMPS.

PANELBOARD HINGES SHALL BE SEMI-CONCEALED FIVE KNUCKLE STEEL WITH NONFERROUS PINS, I80 DEGREE OPENING, AND LOCATE NOT MORE THAN 4" FROM TOP AND BOTTOM NOR GREATER THAN 26" ON CENTER.

PANELBOARD HARDWARE SHALL BE CHROME PLATED FLUSH TYPE COMBINATION LOCK AND CATCH WITH TWO KEYS. DOORS OVER 43" HIGH SHALL HAVE CHROME PLATED VAULT HANDLE. BUILT-IN LOCK AND 3 POINT CATCH FASTENING DOOR AT TOP, CENTER AND BOTTOM

PANELBOARD DIRECTORY HOLDER SHALL BE A METAL FRAME WITH NON-BREAKER TRANSPARENT COVER AND TYPE WRITTEN LIST OF CIRCUITS SHOWING POINTS SUPPLIED.

PANELBOARD NAME PLATES SHALL BE LAMINATED MICARTA, AND FURNISHED ON EACH PANEL TO INDICATE THE PANEL, AND PANEL VOLTAGE VOLTAGE.

PANELBOARD MOUNTING HEIGHT SHALL BE 6'-6" MAXIMUM FROM FINISHED FLOOR TO CENTER LINE OF TOP SWITCH OR CIRCUIT BREAKER UNLESS INDICATED OTHERWISE.

CIRCUIT BREAKERS QUICK-MAKE, QUICK-BREAK, THERMAL MAGNETIC WITH NON-WELDING TYPE CONTACTS. BREAKERS SHALL BE BOLTED TO THE PANEL BUS, UNLESS NOTED OTHERWISE. BREAKERS SHALL BE TRIP SET TO 20 AMPS.

TWO AND THREE POLE CIRCUIT BREAKERS TO BE COMMON TRIP.

LIGHTING CIRCUIT BREAKER TO BE "SWD" RATED.

#### GROUNDING AND BONDING: (AS APPLICABLE)

FURNISH AND INSTALL A COMPLETE WIRED GROUNDING SYSTEM MINIMUM #12 AWG, GREEN. CONDUIT GROUNDS ARE NOT ACCEPTABLE

WHERE REQUIRED, EMT CONNECTORS OR FLEXIBLE CONDUIT FITTINGS SHALL BE BONDED USING A CONDUIT LOCKNUT. T & B SERIES #106, OR EQUAL, UL LISTED.

GROUND TERMINAL RODS SHALL BE NOT LESS THAN 1/2" DIAMETER AND 8 FEET LONG SHALL BE MADE OF COPPER CLAD STEEL.

CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL ENCLOSURES AND NON-CURRENT CARRYING METALS TO BE GROUNDED ALL LOCK NUTS MUST CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM USE BONDING JUMPERS WITH APPROVED CLAMPS.

ALL NEW RECEPTACLES SHALL BE BONDED TO A GROUND CONDUCTOR USING A #12 AWG. MINIMUM BONDING JUMPER BETWEEN RECEPTACLE TERMINAL AND GROUND CONDUCTOR. METAL-TO-METAL CONTACT ACCEPTABLE FOR OTHER SURFACES BOXES OR FLUSH TYPE BOXES, BOXES OR FLUSH TYPE BOXES.

MOTOR AND EQUIPMENT TERMINAL BOXES SHALL BE GROUNDED BY THE USE OF A MANUFACTURER-SUPPLIED GROUND LUG OR BY DRILLING AND TAPPING A HOLE FOR A GROUND SCREW. REMOVE PAINT PRIOR

LIGHTING FIXTURES SHALL BE GROUNDED BY THE USE OF A PIGTAIL FASTENED ON BARE METAL THAT IS FREE OF PAINT.

#### GENERAL LIGHTING NOTES: (AS APPLICABLE)

LI. FIXTURE TYPES: REFERENCE LIGHTING FIXTURE SCHEDULE AND REFLECTED CEILING PLAN FOR COMPLETE DESCRIPTION OF EACH FIXTURE

L2. SWITCH LOCATIONS: TYPICAL SWITCHING SHALL BE AS SHOWN.

TYPE. LIGHT FIXTURES ARE IDENTIFIED BY LETTERS AND SYMBOLS.

L3. EXIT SIGNS: FURNISH EXIT SIGNS WITH INTEGRAL 90 MINUTE NICKEL-CADMIUM BATTERY BASED EMERGENCY POWER SOURCE.

L4. EMERGENCY LIGHTING: SUPPLY EMERGENCY FIXTURES WITH INTEGRAL 90 MINUTE BATTERY

L5. FIXTURE LOCATIONS: REFERENCE REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHT FIXTURES. COORDINATE INSTALLATION IN FIELD WITH TENANT AND ENGINEER. COORDINATE AIMING OF ADJUSTABLE FIXTURES IN FIELD WITH TENANT

L6. INSTALLATION: WIRE FROM JUNCTION BOXES TO FIXTURES OR SWITCHES AS INDICATED. ADDITIONAL JUNCTION BOXES MAY BE REQUIRED BEYOND THOSE SHOWN.

L7. SUPPORT ALL FIXTURES ACROSS CEILING TEES OR FROM STRUCTURE ABOVE. IN NO CASE SHALL CEILING TILES OR PLASTER CEILING SUPPORT ANY FIXTURE.

#### GENERAL POWER NOTES: (AS APPLICABLE)

PI. GENERAL: VERIFY EXACT LOCATION OF OUTLETS AND DEVICES WITH TENANT PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVER PLATES, AND FLANGES AS REQUIRED.

P2. COORDINATION: MOUNT ALL OUTLETS AT 18" A.F.F. UNLESS NOTED OTHERWISE. REFERENCE ARCHITECT'S DRAWINGS, PLANS & ELEVATIONS FOR ALL HEIGHTS, DIMENSIONS, AND CONFIGURATIONS OF DEVICES NOT INDICATED ON THESE DRAWINGS. REFERENCE SAME DRAWINGS FOR EQUIPMENT NOT IDENTIFIED.

P3. CONVENIENCE OUTLETS: ALL CONVENIENCE OUTLETS SHOWN SHALL BE NEMA TYPE 5-20R, SPECIFICATION GRADE (HUBBELL #5352) DUPLEX RECEPTACLES WITH COVER PLATES TO MATCH EXISTING. VERIFY COLOR WITH ARCHITECT.

ACCEPTABLE MANUFACTURERS:

HUBBELL LEVITON PASS & SEYMOUR

FLOOR SERVICE BOXES: PROVIDE STEEL CITY CONCEALED SERVICE FLOOR BOXES CONFIGURED AS INDICATED ON PLAN. PROVIDE POWER, COMMUNICATIONS, DATA & SECURITY WHERE SHOWN. PROVIDE #GAB CAST PRESET FOR WORK IN CONCRETE.

P4. IG & GFCI RECEPTACLES: ALL ISOLATED GROUND DEVICES (IG) AND GROUND FAULT INTERRUPT (GFCI) DEVICES SHALL BE RATED 20 AMPERES AND SHALL HAVE AN DEDICATED INSULATED GREEN GROUND WIRE. THE GROUND WIRE SHALL BE RUN CONTINUOUS AND UNSPLICED BETWEEN DEVICE AND PANEL GROUND BUS.

ISOLATED GROUND RECEPTACLES SHALL BE UL LISTED 20 AMPERE (HUBBELL #16-5352).

GROUND FAULT RECEPTACLES SHALL BE UL LISTED, RATED 20 AMPERES (HUBBELL #GF-5362).

P5. TIME CLOCKS: PROVIDE INTERMATIC 24-HOUR, 7-DAY TIME CLOCK TO CONTROL SIGNS, LIGHTING, AND OTHER CYCLIC LOADS IDENTIFIED BY TENANT'S REPRESENTATIVE. PROVIDE CONTACTORS AS REQUIRED. VERIFY EXACT LOCATION AND WIRING REQUIREMENTS. TIMECLOCK TO REMAIN "ON" BETWEEN THE HOURS OF DUSK TO 12:00 AM MINIMUM.

P6. INSTALLATION: DROP FROM JUNCTION BOXES TO DEVICES AS INDICATED ADDITIONAL JUNCTION BOXES MAY BE REQUIRED BEYOND THOSE SHOWN

PT. EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.

#### POWER RISER GENERAL NOTES:

PI. ELECTRICAL CONTRACTOR SHALL COLOR CODE FEEDER CONDUCTORS AT THE METER CENTER TO DESIGNATE PHASE NEUTRAL & GROUND.

P2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT K.A.I.C. RATINGS OF THE LANDLORD'S DISTRIBUTION EQUIPMENT. PROVIDE SERIES RATED EQUIPMENT.

P3. ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT TO 10% (+/-) BETWEEN PHASES: A/B, B/C, A/C REGARDLESS OF CIRCUITING INDICATED.

P4. PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER N.E.C. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN THE ELECTRICAL ROOM PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.

P5. CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS.

P6. PANELBOARD(S) TO BE EQUIPPED WITH BOLT-ON BREAKERS.

#### SPECIAL SYSTEMS NOTES: (AS APPLICABLE)

SI. TELEPHONE SYSTEM: PROVIDE BACKBOARDS, CONDUITS, AND PULL STRINGS. COORDINATE WORK WITH TELEPHONE COMPANY AND TELEPHONE CONTRACTOR. COORDINATE CONDUIT ROUTING WITH FIELD CONDITIONS. PROVIDE CONDUIT FOR RUNS EXPOSED TO WEATHER OR DAMAGE. VERIFY NUMBER OF INCOMING LINES WITH OWNER.

S2. TELEPHONE/DATA RECEPTACLES: FURNISH AND INSTALL PULL STRINGS FROM OUTLETS TO 6" ABOVE CEILING. VERIFY EXACT REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER AND INSTALLER. FURNISH AND INSTALL MATERIALS NOT PROVIDED BY TELEPHONE CONTRACTOR.

53. FIRE ALARM: VERIFY FIRE ALARM REQUIREMENTS IN FIELD WITH LOCAL AUTHORITY HAVING JURISDICTION. FURNISH AND INSTALL NEW INITIATION AND ANNUNCIATION DEVICES. PROVIDE WIRE AND CONDUIT FOR TYING NEW FIRE ALARM INITIATING AND SIGNALING DEVICES TO NEAREST AVAILABLE FIRE ALARM INITIATING ZONE. MEET ALL ADA REQUIREMENTS.

olana Blvd. Suite 1420 (e, TX 76262 410 2858

RELEASED FOR CONSTRUCTION As Noted on Plans Review





# SHORT DRIVE

PROJECT NO. 2035

12.16.2021

DJP

DRAWN:

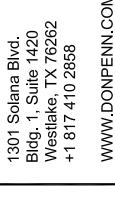
REVISIONS:

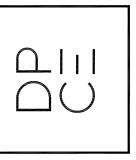
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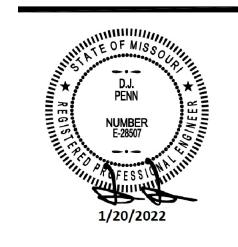
ELECTRICAL SPECIFICATIONS

SHEET NO.

E4.1







PROJECT NO. 2035 DATE: 12.16.2021

DJP

DRAWN:

REVISIONS:

1ST FLOOR PLUMBING

SHEET NO.

2 RUN 2" VENT THRU ROOF. COORDINATE ROUTING WITH UPPER FLOOR.

82 GPH @ 5' HEAD, 51 GPH @ 15' HEAD

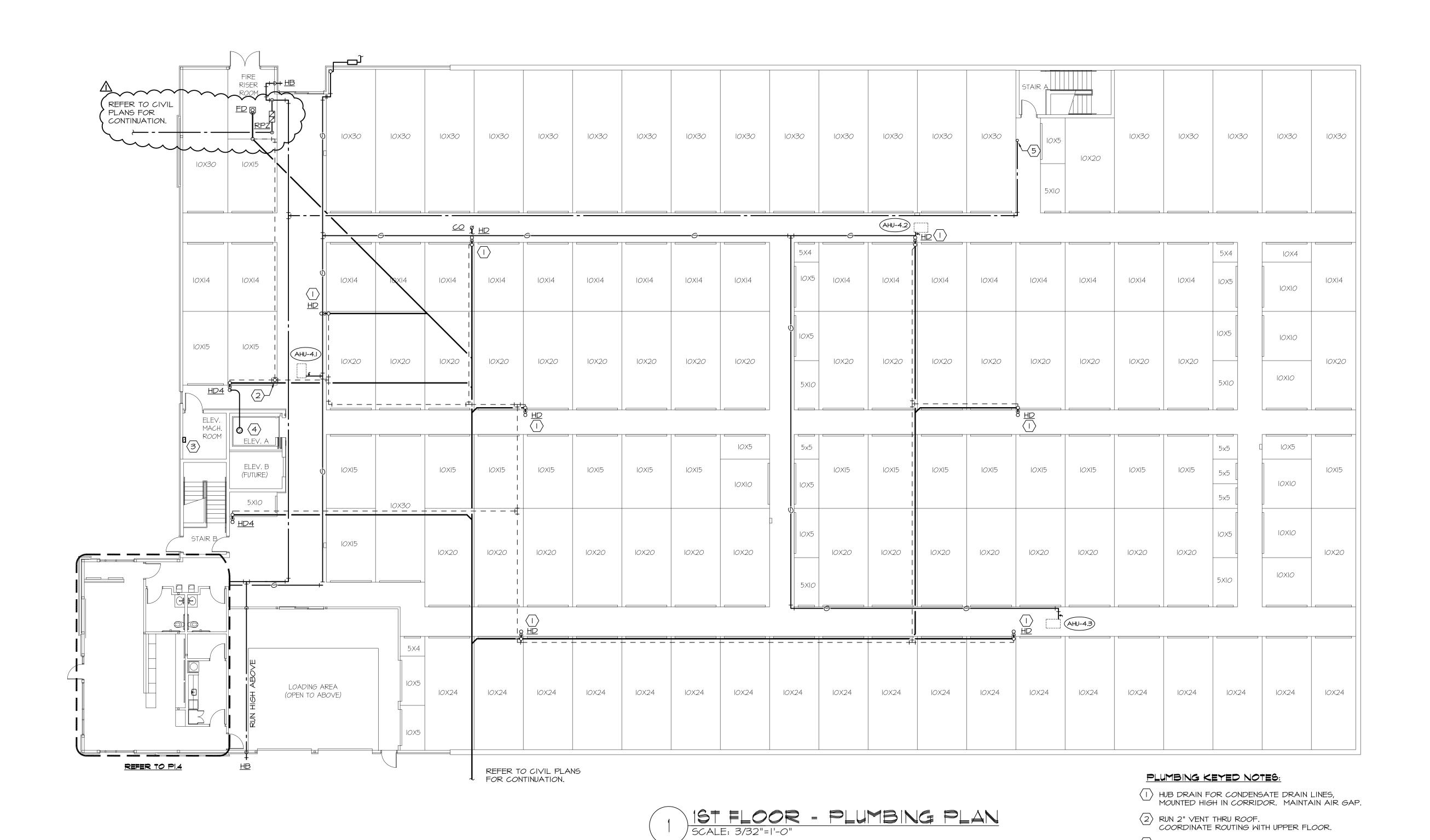
EQUAL TO DAYTON #3HGE6;

 $\langle 5 \rangle$  3/4" C.W. LINE UP TO 2ND FLOOR.

 $\langle 6 \rangle$  XX" GAS LINE UP TO 2ND FLOOR.

RUN 3/4" CONDENSATE LINE FROM CONDENSATE PUMP TO HUB DRAIN.

 $\overline{\langle 4 \rangle}$  SUMP PUMP FOR ELEVATOR SHAFT. RUN 2" DRAIN LINE TO 4" HUB DRAIN. REFER TO DETAIL 2/P2.I.



PROJECT NO. 2035

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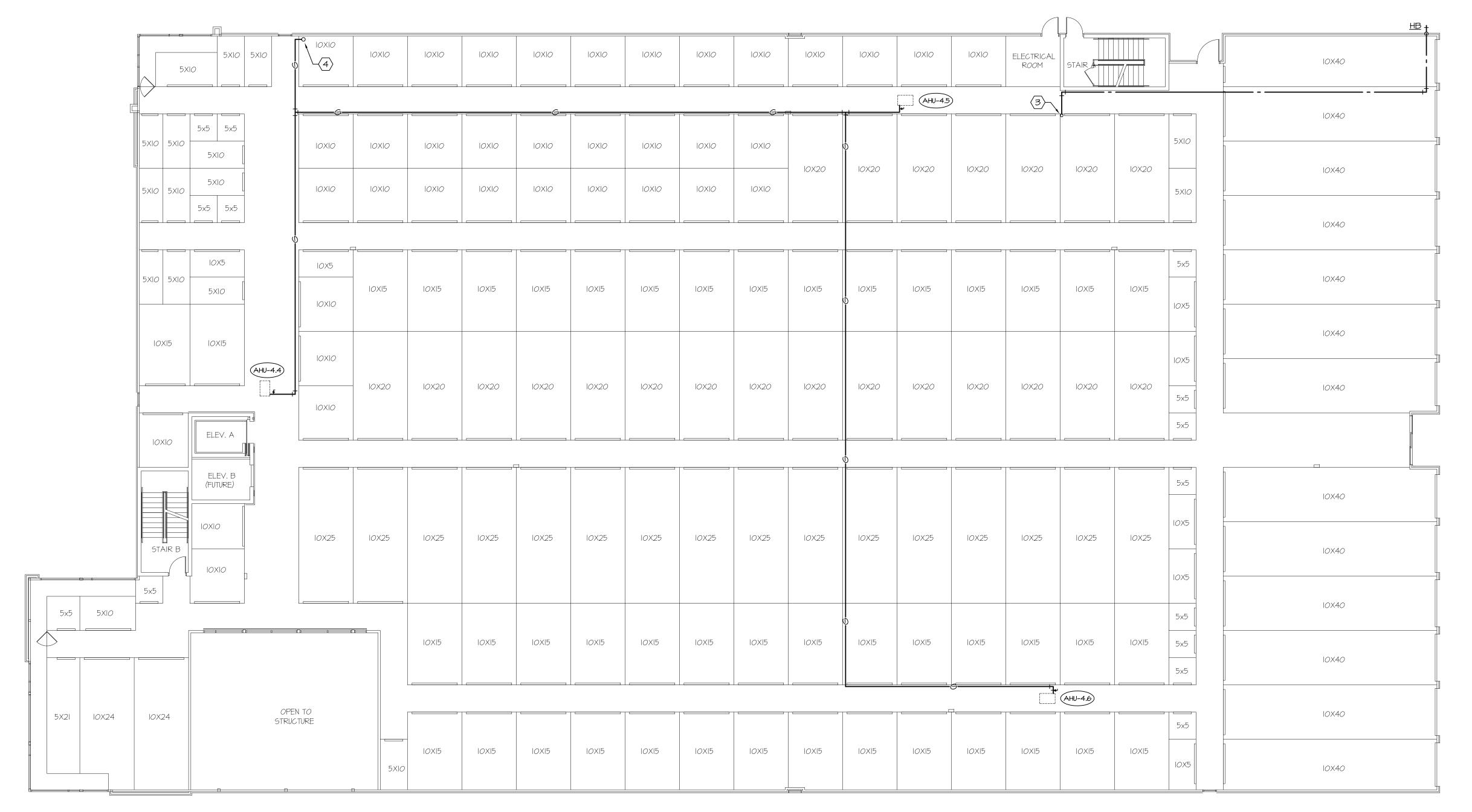
DJP

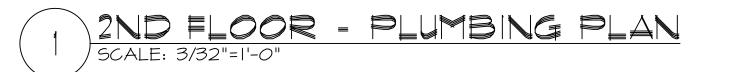
REVISIONS:

2ND FLOOR PLUMBING

SHEET NO.

P1.2





#### PLUMBING KEYED NOTES:

- HUB DRAIN FOR CONDENSATE DRAIN LINES, MOUNTED HIGH IN CORRIDOR. MAINTAIN AIR GAP.
- 2 RUN 2" VENT THRU ROOF. COORDINATE ROUTING WITH UPPER FLOOR.
- (3) 3/4" C.W. LINE UP FROM IST FLOOR.
- 4 XX" GAS LINE UP FROM IST FLOOR. XX" GAS LINE UP TO 3RD FLOOR.

PROJECT NO. 2035

DATE: 12.16.2021

DJP

DRAWN:

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REVISIONS:

3RD FLOOR PLUMBING

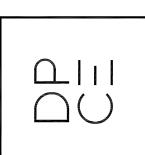
SHEET NO.

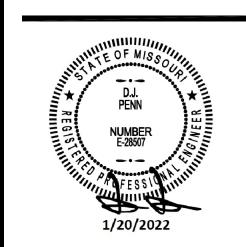
(2) RUN 2" VENT THRU ROOF. COORDINATE ROUTING WITH UPPER FLOOR.

 $\langle 3 \rangle$  XX" GAS LINE UP FROM 2ND FLOOR.

P1.3







DATE: 12.16.2021

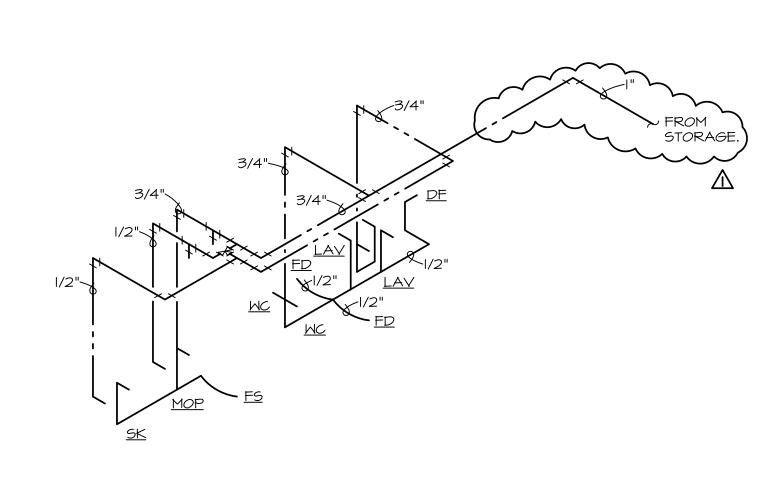
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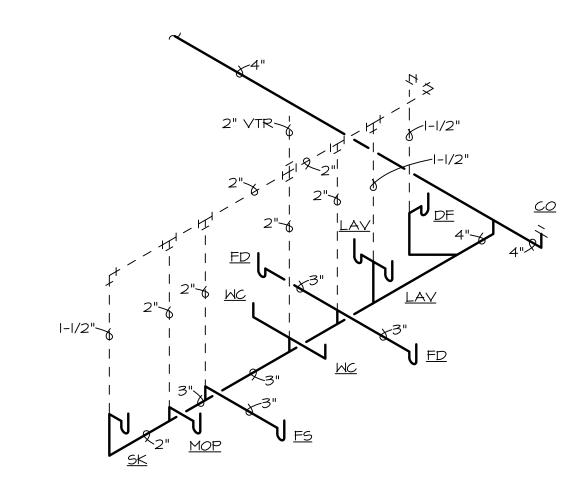
REVISIONS:

OFFICE PLUMBING

SHEET NO.



### 3 COLD WATER RISER NO SCALE

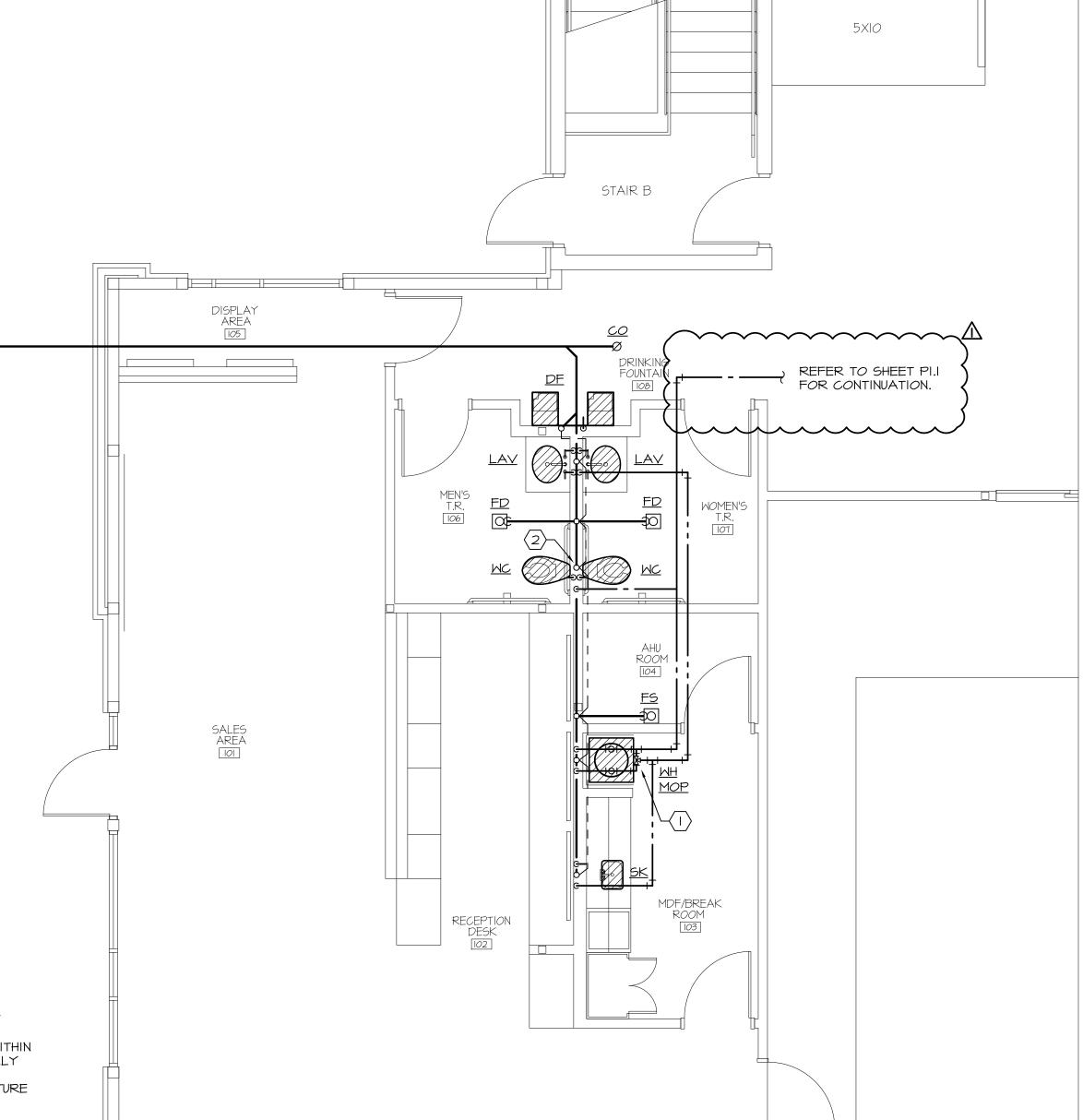


2 WASTE & VENT RISER NO SCALE

#### GENERAL PLUMBING NOTES :

I. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.

#### PLUMBING KEYED NOTES:



PLUMBING PLAN

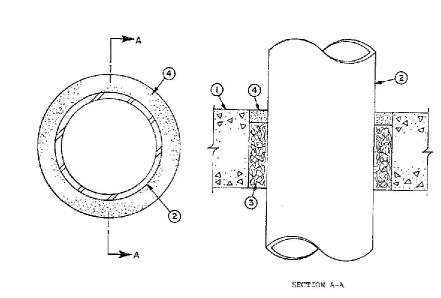
SCALE: 1/4"=1'-0"



2 RUN 2" VENT THRU ROOF. COORDINATE ROUTING WITH UPPER FLOOR.

System No. C-AJ-1014 (Formerly System No. 133) F Rating—2 Hr

T Rating—0 Hr L Rating At Ambient—Less Than 1 CFM/sq ft (See Item 4) L Rating At 400 F—Less Than 1 CFM/sq ft (See Item 4)

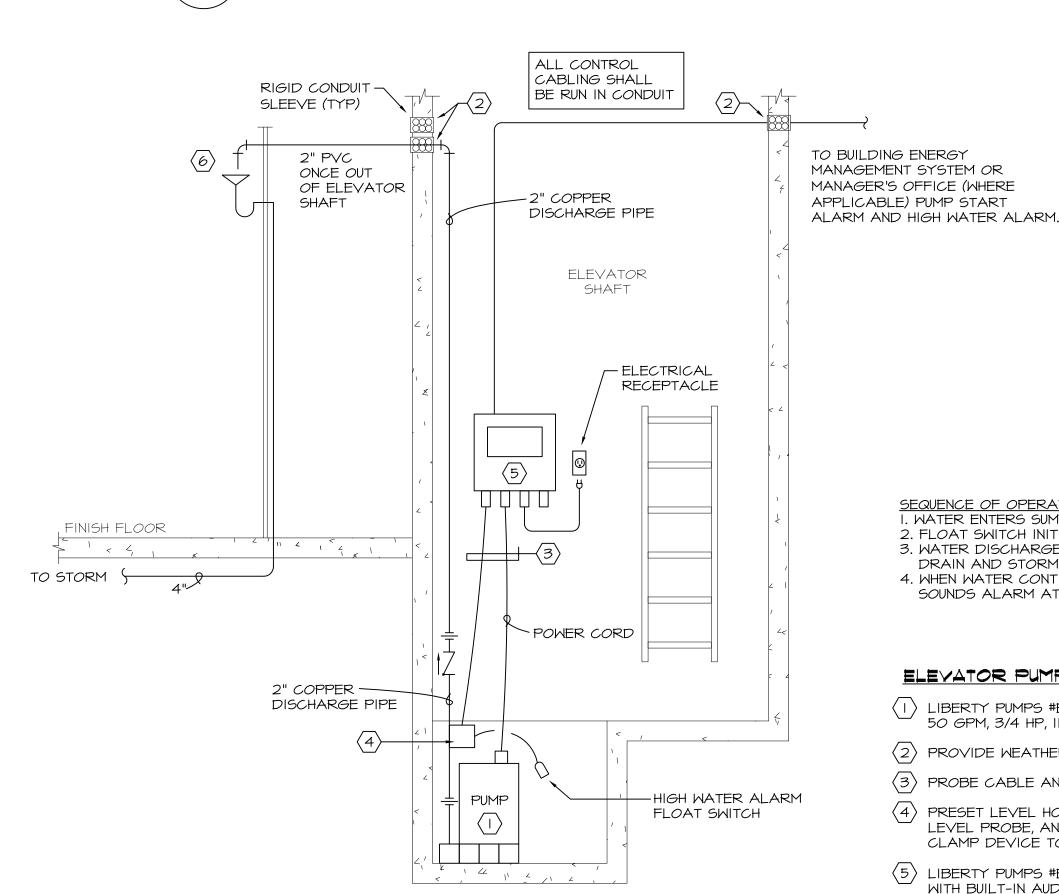


- 1. Floor or Wall Assembly—Min 3-1/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular opening is 6 in. See Concrete Block (CAZT) category in the Fire Resistance Directory
- for names of manufacturers. 2. Through Penetrants—One metallic pipe or conduit to be centered within the firestop system. A nom annular space of 3/4 in. is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
- A. Steel Pipe—Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Conduit—Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
- 3. Packing Material—Min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as require to accommodate the required thickness of fill material. Min thickness of packing material in floors and walls to be 2-3/4 in, and 2-1/4 in.,
- 4. Fill, Void or Cavity Material*—Sealant—Min 1/2 in. thickness of fill material applied within annulus, flush with top surface of floor or with both surfaces of wall. As an alternate, the permanent forming material (Item 3) may be omitted if the fill material thickness is increased to a

Minnesota Mining & Mfg. Co.—Types FB-2000, FB-2000+, FB-2003 (floors only). (Note: L Ratings apply only when FB-2000+ is

## UL FIRE PENETRATION DETAIL

*Bearing the UL Classification Marking



ELEVATOR SUMP PUMP SYSTEM DETAIL
NOT TO SCALE

#### SERVICE WATER SYSTEMS FUNCTIONAL TESTING/COMMISSIONING PLAN

THE CONTRACTOR SHALL COMPLETE THE TASKS BELOW TO COMMISSION THE SERVICE WATER SYSTEMS AND CONTROL SYSTEM AND SUBMIT WRITTEN DOCUMENTATION DETAILING THE TASKS BELOW. FOR EACH TASK, LIST THE DATE PERFORMED, PERSON COMPLETING THE TASK, THE INITIAL SETTING/CONDITION, LIST OF SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND DESCRIPTION OF OF THE TESTS TO BE PERFORMED. ACTIONS PERFORMED, AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY.

- I. ENSURE ALL WATER SYSTEMS INSTALLED AND ARE FUNCTIONAL.
- 2. ENSURE SERVICE WATER HEATING CONTROL SYSTEMS ARE CALIBRATED AND FUNCTIONAL AND OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 3. EQUIPMENT SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS.

P	PING MATERIAL SCHEDULE
TYPE	MATERIALS
WATER LINES	COPPER TYPE "L" OR CROSS-LINKED POLYETHYLENE (PEX) W/ I" THICK ARMAFLEX OR EQUIVALENT INSULATION
WASTE LINE	ABS SCHEDULE 40 OR CAST IRON
VENT LINE	ABS SCHEDULE 40 OR COPPER PIPING
CONDENSATE	PVC SCHEDULE 40

PIPING LEG	END
SYMBOL	TYPE
	COLD WATER
	HOT WATER
	WASTE LINE
	VENT LINE

#### $^{\underline{\square}} \\$ REDUCED PRESSURE -PRINCIPAL BACKFLOW COLD WATER ---PREVENTER SUPPLY TO SYSTEM FOR WALL SUPPORT INSTALLATION -USE WALL BRACKET ON EITHER SIDE OF GATE VALVES. (TYPICAL) 12" MINIMUM TO ---SUPPORT BOTTOM OF RELIEF OPENINGS FINISHED FLOOR - WATER LINE FROM METER BACKFLOW PREVENTER DETAIL

#### SEQUENCE OF OPERATION: I. WATER ENTERS SUMP.

- 2. FLOAT SWITCH INITIATES SUMP, PUMP, AND ALARM AT MANAGER'S OFFICE 3. WATER DISCHARGES THROUGH NORMALLY OPEN SOLENOID VALVE (A) TO HUB
- 4. WHEN WATER CONTINUES TO RISE, HIGH WATER ALARM FLOAT SWITCH SOUNDS ALARM AT MANAGER'S OFFICE.

#### ELEVATOR PUMP KEYED NOTES:

- LIBERTY PUMPS #ELV290, SUBMERSIBLE PUMP SYSTEM 50 GPM, 3/4 HP, II5VOLT, 2" DISCHARGE CONNECTION
- 2 PROVIDE WEATHERPROOF SEAL EQUAL TO LINK-SEAL.
- (3) PROBE CABLE AND POWER CABLE.
- 4 PRESET LEVEL HOLDER WITH HIGH LIQUID ALARM FLOAT, HIGH LEVEL PROBE, AND PUMP "ON" & PUMP "OFF" PROBE. CLAMP DEVICE TO PUMP DISCHARGE PIPING.
- (5) LIBERTY PUMPS #ELV-290 OILTECTOR SYSTEM, II5V/IP, CONTROL SYSTEM WITH BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES RUN DUE TO HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACTOR FOR A REMOTE ALARM LOCATION.
- (6) HUB DRAIN N CORRIDOR. MAINTAIN AIR GAP.

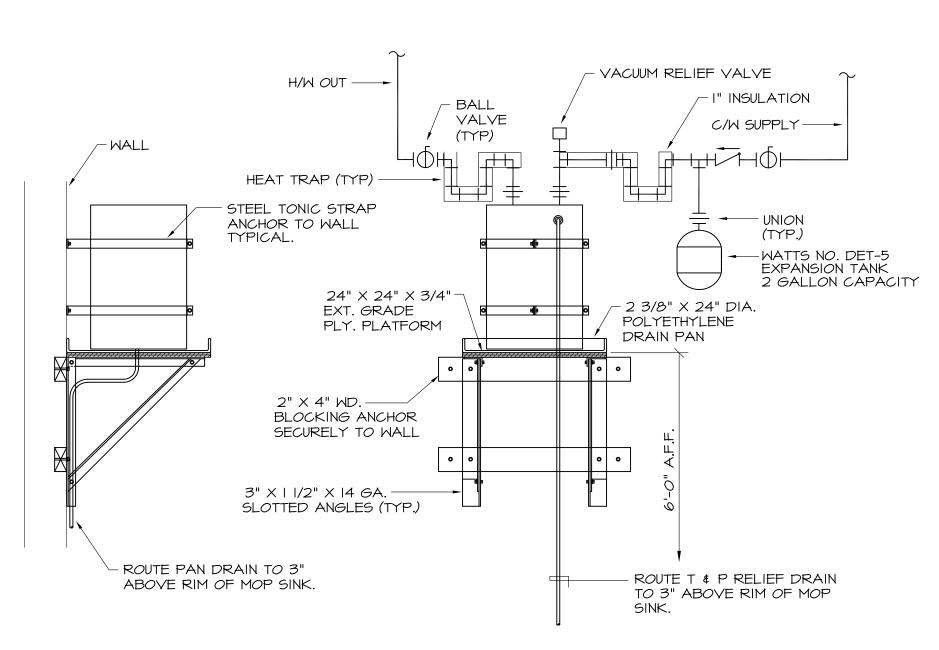
MARK	FIXTURE	CM	HM	M	V	REMARKS
MC	WATER CLOSET (HANDICAP)	1/2"	-	4"	2"	a. KOHLER #K-25077; ELONGAED WATER CLOSET; WHITE CHINA; I.28 GAL. PER FLUSH. b. McGUIRE #2166LK 1/2" ANGLE SUPPLIES. c. CHURCH #295C WHITE, OPEN FRONT SEAT.
LAV	LAVATORY (HANDICAP)	1/2"	1/2"	2"	I-I/2"	a. KOHLER #K-2030; WALL MOUNTED; WHITE CHINA; 20"x 18"; 8" CENTERS b. CHICAGO FAUCET #404-VE2805-3I7ABCP, 0.5 GPM; 4" WRIST BLADES c. CHROME PLATED GRID STRAINER. d. 17 GA., 1 1/2" P-TRAP. e. 1/2"x 3/8" STOPS & SUPPLIES; CHROME PLATED. f. WADE SERIES 520 CARRIER. g. TRUEBRO #102 P-TRAP AND SUPPLY PIPING INSULATION KIT.
FD	FLOOR DRAIN	1/2"	-	3"	2"	a. WADE # 1100STD 6" DIA. CAST IRON FLOOR DRAIN PROVIDE 1/2" TRAP PRIMER
FS	FLOOR SINK	1/2"	-	3"	2"	a. WADE # 9113-EF6; 8×8×6 CAST IRON FLOOR SINK W/ 6"Φ FUNNEL, ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP. PROVIDE I/2" TRAP PRIMER.
DF	WATER COOLER	1/2"	-	2"	I-I/2"	a. ELKAY #EZSTL8C; WALL MOUNT, BARRIER-FREE ACCESS, ADA COMPLIANT
MOP	MOP SINK	1/2"	1/2"	3"	I-I/2"	a. WILLIAMS #SBC-1800 "HILOW" 24"x24"x12" W/ STAINLESS STEEL CAP b. WILLIAMS #T-10-VB; SINK FITTING W/ VACUUM BREAKER, 3/4" HOSE TREADED OUTLET; PAIL HOOK W/ WALL SUPPORT c. PROVIDE STAINLESS STEEL BACK PANEL.
SK	BREAK SINK	1/2"	1/2"	2"	I-I/2"	a. ELKAY #LRADI72055; SINGLE BOWL; 18 GAUGE; DROP-IN 14"×14" BOWL b. DELTA FAUCET #28716LF, LEVER HANDLES, 1.8 GPM; 5" SWING SPOUT. c. 3" PERFORATED GRID STRAINER; ELKAY #LK-8 d. 1/2"×3/8" STOPS AND SUPPLIES; CHROME PLATED. ELKAY #2165 LK.
HD	HUB DRAIN	-	-	3"	I-I/2"	a. PROVIDE 3" HUB DRAIN HIGH IN CORRIDOR.
HD4	HUB DRAIN	-	-	4"	2"	a. PROVIDE 4" HUB DRAIN HIGH IN CORRIDOR.
TD	TRENCH DRAIN	-	-	4"	2"	
HB	HOSE BIBB	3/4"	-	-	-	a. ZURN #1300; ENCASED, ANTI-SIPHON W/ NON-FREEZE TYPE INTEGRAL BACKFLOW PREVENTER
CO	CLEANOUT	_	-	4"	-	a. WADE # 6000, CAST IRON W/ THREADED ADJUSTABLE HOUSING PROVIDE WITH TEE-WYE FITTING.
DCO	HEAVY-DUTY DOUBLE CLEANOUT SAMPLE PORT	_	-	4"	-	a. WADE # 6000Z, CAST IRON W/ THREADED ADJUSTABLE HOUSING PROVIDE WITH SINGLE RISER
TMV	THERMOSTATIC MIXING VALVE	3/4"	3/4"	-	-	a. SYMMONS "MAXLINE" #7-230-CK; LEAD FREE, TAMPER RESISTANT

#### <u>NOTES</u>

I. ALL FIXTURES SHALL HAVE AN INDIVIDUAL SHUTOFF VALVE.

2. ALL FIXTURES SHALL BE PROVIDED W/ A SHOKTROL.

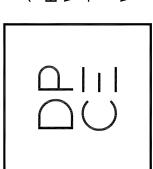
3. INSTALL A METER AND/ OR BACKFLOW PREVENTOR AS PER LOCAL CODE.

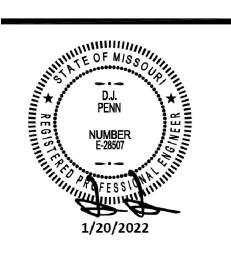




		WA*	TER H	EATE	er sched	ULE
MARK			STORAGE GALLONS		MAXIMUM INPUT BTUH	REMARKS
MH-I	10	60	20	<i>G</i> LASS	1.5 KW @ 120V/IФ	STATE #PCE-20-IOMSA

RELEASED FOR CONSTRUCTION As Noted on Plans Review





PROJECT NO. 2035 DATE: 12.16.2021

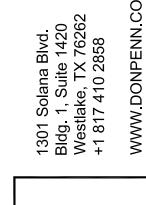
 $\mathsf{DJP}$ 

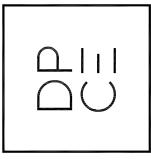
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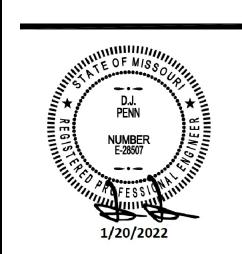
**REVISIONS:** 

PLUMBING SCHEDULES

SHEET NO.







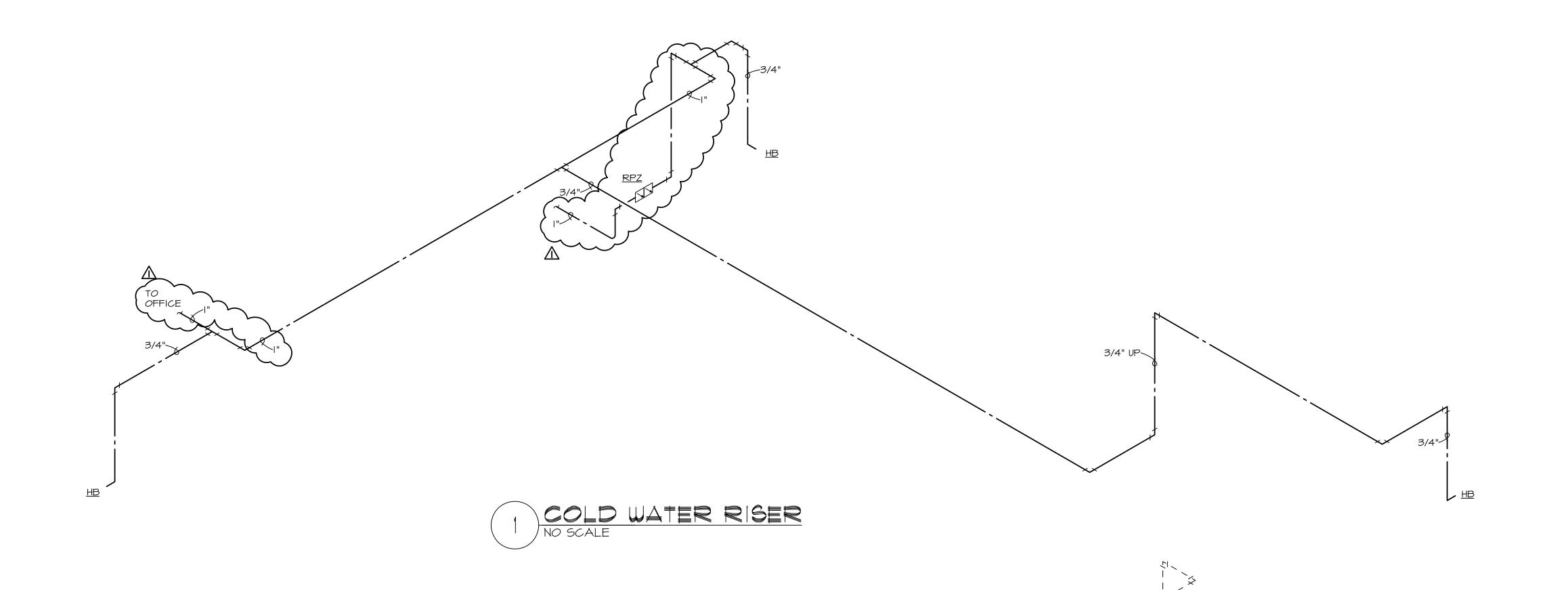
PROJECT NO. 2035 DATE: 12.16.2021

DJP DRAWN:

REVISIONS:

PLUMBING RISERS

P2.2

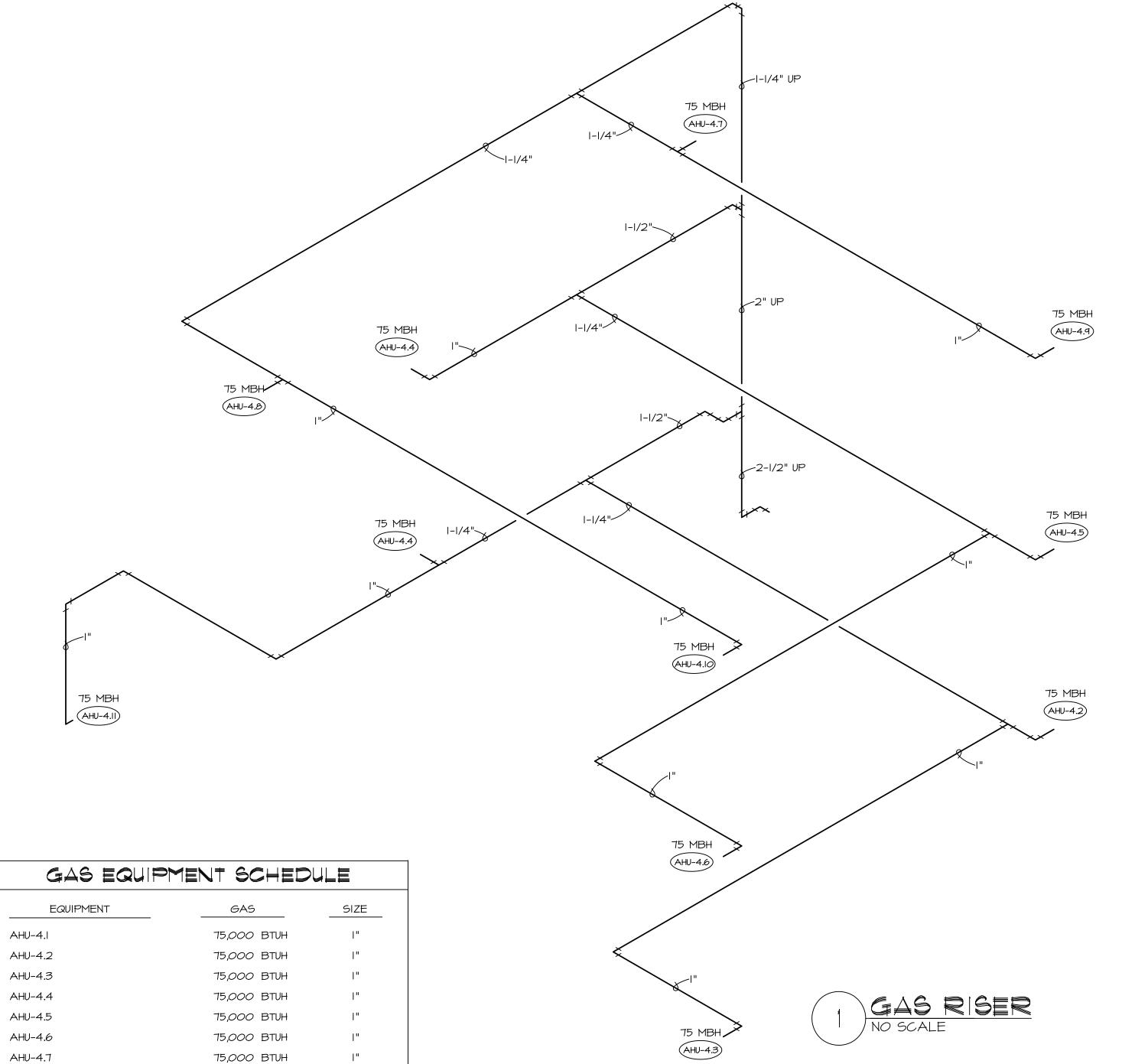


2 WASTE & VENT RISER NO SCALE

WATER METER	FIXTURE	CALCULA	TIONS
<u>FIXTURE</u>	F.U. FIXTURE	# OF FIXTURES	TOTAL F.U.
WATER CLOSET	5.0	2	10.0
LAVATORY	2.0	2	4.0
DRINKING FOUNTAIN	0.25	1	0.25
BREAK SINK	1.4	I	1.4
MOP SINK	3.0	1	3.0
	AL WATER FIXTUR	RE UNITS = 18.65	=.U.
27.022 07.77	EDOMINANTLY F. EMAND ESTIMATE		

DRAINAG	E FIXTURE C	ALCULATI	ONS
<u>FIXTURE</u>	F.U. FIXTURE	# OF FIXTURES	TOTAL F.U.
WATER CLOSET	4.0	2	8.0
LAVATORY	1.0	2	2.0
DRINKING FOUNTAIN	0.5	1	0.5
BREAK SINK	2.0	1	2.0
MOP SINK	3.0	1	3.0
FLOOR DRAIN	2.0	3	6.0
FLOOR SINK	2.0	1	2.0
HUB DRAIN	2.0	9	18.0
	TOTAL WASTE FIXTUR	PFUNITS = 415	F.U.

WATER SIZE	REQUIRED = 1"		
PAINAGE F	XTURE C	ALCULATI	ONS
<u>JRE</u>	F.U. FIXTURE	# OF FIXTURES	TOTAL F.U.
ER CLOSET	4.0	2	8.0
ATORY	1.0	2	2.0
KING FOUNTAIN	0.5	1	0.5
AK SINK	2.0	I	2.0
SINK	3.0	1	3.0
OR DRAIN	2.0	3	6.0
OR SINK	2.0	1	2.0
DRAIN	2.0	9	18.0
TO	TAL WASTE FIXTUR	RE UNITS = 41.5	F.U.
RECOMMENDED PIP	E SIZE REQUIRED (	9 0.125/FT SLOPE	= 4"



TOTAL SPACE DEMAND = 825,000 BTUH 2-1/2" @ 350 '

ALL GAS EQUIPMENT SHALL BE PROVIDED WITH AN INDIVIDUAL SHUT-OFF VALVE AND A FLEXIBLE QUICK DISCONNECT.

75,000 BTUH

75,000 BTUH

75,000 BTUH

75,000 BTUH

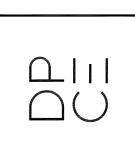
AHU-4.8

AHU-4.9

AHU-4.10 AHU-4.11

GAS PRESSURE SHALL BE 0.5". CONTRACTOR SHALL VERIFY METERING AND PRESSURE REGULATOR REQUIREMENTS WITH LOCAL GAS COMPANY.

1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
+1 817 410 2858
WWW.DONPENN.COM





# LAKEWOOD STORAGE

PROJECT NO. 2035

DATE: 12.16.2021

DJP

DRAWN:

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REVISIONS:

PLUMBING RISERS

SHEET NO.

P2.3