

Department of Building & Grounds Architectural Services Division

City of Baton Rouge Parish of East Baton Rouge

P.O. Box 1471 Baton Rouge, Louisiana 70821 225 389-4694 Voice 225 389-4704 Fax

ADDENDUM #1

October 23, 2024

TO ALL BIDDERS

PROJECT: BATON ROUGE POLICE DEPARTMENT TRAINING FACILITY CITY PARISH PROJECT NO. 21-ASC-CP-1560

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

- 1. Clarification: Bidders must include in their bids all sales and/or use taxes on materials, supplies and equipment to be furnished for use on the project.
- 2. See attached Addendum from BBI Architects, AAC (37 pages.)

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

TOTAL PAGES33 (DRAWINGS)
TOTAL PAGES4 (ADDENDUM)
TOTAL PAGES1 (INCLUDING THIS PAGE)

FAILURE TO INDICATE RECEIPT OF THIS ADDENDUM ON BID FORM MAY BE CAUSE FOR THE BID TO BE REJECTED

Rob Gray, AIA, LEED AP BD+C, Interim Chief Architect Architectural Services Division 1100 Laurel Street, Rm. 227 Baton Rouge, LA 70802



Date: October 22, 2024

Project: Baton Rouge Police Department

Training Facility
999 West Irene Road
Zachary, Louisiana

Architect: BBI Architects, AAC

1111 S. Foster, Suite D Baton Rouge, LA 70806

THE FOLLOWING ADDITIONS, CLARIFICATIONS, DELETIONS, AND/OR CORRECTIONS TO THE ORIGINAL CONTRACT DOCUMENTS ARE HEREBY SPECIFICALLY MADE A PART OF THOSE ORIGINAL CONTRACT DOCUMENTS WITH THE SAME FORCE AND EFFECT AS THOUGH ORIGINALLY SET FORTH IN FULL. CHANGES TO THE DRAWINGS AND SPECIFICATIONS SHALL BE LISTED AND OTHERWISE EXPLAINED BY THIS ADDENDUM. ANY CONTRADICTIONS IN THESE DOCUMENTS SHALL BE IMMEDIATELY POINTED OUT TO THE ARCHITECT SO THAT A DECISION CAN BE RENDERED.

DRAWINGS

ARCHITECTURAL

Sheet T1.1

1. Delete existing sheet T1.1 and replace with new sheet T1.1 included in this addendum.

Survey Sheet

1. Delete existing Survey and replace with Survey included in this addendum.

Sheet C1.1

1. Delete existing sheet C1.1 and replace with new sheet C1.1 included in this addendum.

Sheet A1.1

1. Delete existing sheet A1.1 and replace with new sheet A1.1 included in this addendum.

Sheet A1 2

1. Delete existing sheet A1.2 and replace with new sheet A1.2 included in this addendum.

Sheet A1.3

1. Delete existing sheet A1.3 and replace with new sheet A1.3 included in this addendum.

Sheet A1.4

1. Delete existing sheet A1.4 and replace with sheet A1.4 included in this addendum.

Sheet A2.1

1. Delete existing sheet A2.1 and replace with new sheet A2.1 included in this addendum.



Sheet A2.2

1. Delete existing sheet A2.2 and replace with new sheet A2.2 included in this addendum.

Sheet A2.3

1. Delete existing sheet A2.3 and replace with new sheet A2.3 included in this addendum.

Sheet A2.4

1. Delete existing sheet A2.4 and replace with new sheet A2.4 included in this addendum.

Sheet A2.5

1. Delete existing sheet A2.5 and replace with new sheet A2.5 included in this addendum.

Sheet A2.6

1. Add sheet A2.6, Elevations and Section, included in this addendum.

Sheet A3.1

1. Add sheet A3.1, Stairs, included in this addendum.

Sheet A4.1

1. Delete existing sheet A4.1 and replace with new sheet A4.1 included in this addendum.

STRUCTURAL

Sheet S0.1

1. Delete existing sheet S0.1 and replace with new sheet S0.1 included in this addendum.

Sheet S1.1

1. Delete existing sheet S1.1 and replace with new sheet S1.1 included in this addendum.

Sheet S2.1

1. Delete existing sheet S2.1 and replace with new sheet S2.1 included in this addendum.

Sheet S2.2

1. Delete existing sheet S2.2 and replace with new sheet S2.2 included in this addendum.

Sheet S2.3

1. Delete existing sheet S2.3 and replace with new sheet S2.3 included in this addendum.

MECHANICAL

Sheet M1.1

1. Add sheet M1.1, Plumbing Plan, included in this addendum.



Sheet M2.1

1. Add sheet M2.1, HVAC Plan, included in this addendum.

Sheet M2.2

1. Add sheet M2.2, HVAC Schedules and Details, included in this addendum.

Sheet M3.1

1. Add sheet M.3.1, HVAC and Plumbing Specifications, included in this addendum.

Sheet M3.2

1. Add sheet M3.2, HVAC and Plumbing Specifications, included in this addendum.

ELECTRICAL

Sheet E0.0

1. Delete existing sheet E0.0 and replace with new sheet E0.0 included in this addendum.

Sheet E0.1

1. Delete existing sheet E0.1 and replace with new sheet E0.1 included in this addendum.

Sheet E0.2

1. Delete existing sheet E0.2 and replace with new sheet E0.2 included in this addendum.

Sheet E1.0

1. Delete existing sheet E1.0 and replace with new sheet E1.0 included in this addendum.

Sheet E2.0

1. Delete existing sheet E2.0 and replace with new sheet E2.0 included in this addendum.

Sheet E3.0

1. Delete existing sheet E3.0 and replace with new sheet E3.0 included in this addendum.

Sheet E3.1

1. Delete existing sheet E3.1 and replace with new sheet E3.1 included in this addendum.

SPECIFICATIONS

No Changes



| PRIOR APPROV | VALS |
|--------------|-------------|
|--------------|-------------|

ARCHITECTURAL PRIOR APPROVALS:

None

End of Addendum

BATON ROUGE POLICE DEPARTMENT TRAINING FACILITY

999 WEST IRENE ROAD BATON ROUGE, LA 70805

C-P PROJECT NO: 21-ASD-CP-1496

October 1, 2024

East Baton Rouge Parish Mayor-President SHARON WESTON BROOME

Metro Council

BRANDON NOEL - DISTRICT 1
CHAUNA BANKS - DISTRICT 2
ROWDY GAUDET - DISTRICT 3
AARON MOAK - DISTRICT 4

ERIKA GREEN - DISTRICT 5
CLEVE DUNN, JR. - DISTRICT 6
PATRICIA A. DEROZAN - DISTRICT 7
DENISE AMOROSO - DISTRICT 8

DWIGHT HUDSON - DISTRICT 9
CAROLYN COLEMAN - DISTRICT 10
LAURIE ADAMS - DISTRICT 11
JENNIFER RACCA - DISTRICT 12

Building Data

BUILDING CODE:

INTERNATIONAL BUILDING CODE 2021
INTERNATIONAL EXISTING BUILDING CODE 2021
PLUMBING CODE:

INTERNATIONAL PLUMBING CODE 2021
INTERNATIONAL FUEL GAS CODE 2021

MECHANICAL CODE:
INTERNATIONAL MECHANICAL CODE 2021
ELECTRICAL CODE:

NFPA 70 2020 NATIONAL ELECTRICAL CODE 2020 FIRE CODE:

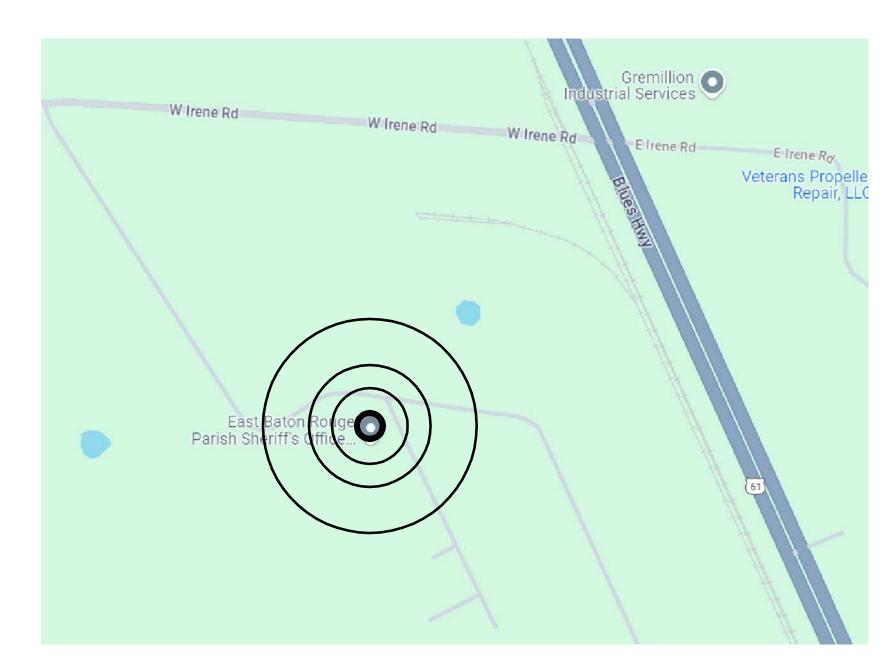
NFPA 101 LIFE SAFETY CODE 2015

ENERGY CONSERVATION:

INTERNATIONAL ENERGY CONSERVATION CODE 2021

ASHRAE 90.1-2007

ACCESSIBILITY:
ADA—ABA ACCESSIBILITY GUIDELINES 2010



VICINITY MAP

Drawing Index

SIMULATOR - STAIR DETAILS

SIMULATOR - DETAILS

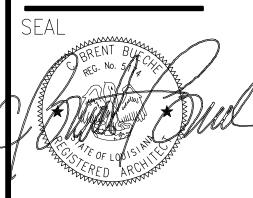
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| C1.1 | SITE PLAN AND NOTES | S2.2 S2.3 | SIMULATOR — FOUNDATION DETAILS SIMULATOR — CATWALK DETAILS |
| A1.1 | CLASSROOM - FLOOR PLAN | M1.1 | CLASSROOM — PLUMBING PLAN |
| A1.2 | DETAILS CLASSROOM — CEILING PLAN SCHEDULES DETAILS | M2.1 M2.2 | CLASSROOM - HVAC PLAN CLASSROOM - HVAC SCHEDULES |
| A1.3 | CLASSROOM — LIFE SAFETY PLAN SECTION | M3.1 | AND DETAILS CLASSROOM — HVAC AND PLUMBING |
| A1.4 A2.1 | CLASSROOM — RESTROOMS SIMULATOR — FLOOR PLAN | M3.2 | SPECIFICATIONS CLASSROOM — HVAC AND PLUMBING SPECIFICATIONS |
| A2.2 | SIMULATOR — CATWALK PLAN STAIR DETAILS | | |
| A2.3 | SIMULATOR — REELECTED CEILING PLAN | E0.0 | SCHEDULES AND ABBREVIATIONS |
| A2.4 | SIMULATOR — DOOR SCHEDULE HARDWARE SCHEDULE | E0.1 E0.2 | RISER AND SCHEDULES GENERAL ELECTRICAL NOTES |
| A2.5 | SIMULATOR — ELEVATIONS SECTION | E1.0 E2.0 | ELECTRICAL SITE PLAN CLASSROOM — LIGHTING |
| A2.6 | SIMULATOR — ELEVATIONS SECTION | E3.0 E3.1 | CLASSROOM - POWER & SS SIMULATOR - ELECTRICAL |

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ADDENDUM No



ATON ROUGE POLICE DEPARTME
TRAINING FACILITY
999 WEST IRENE ROAD, ZACHARY, LA 70791

SHEET TITLE

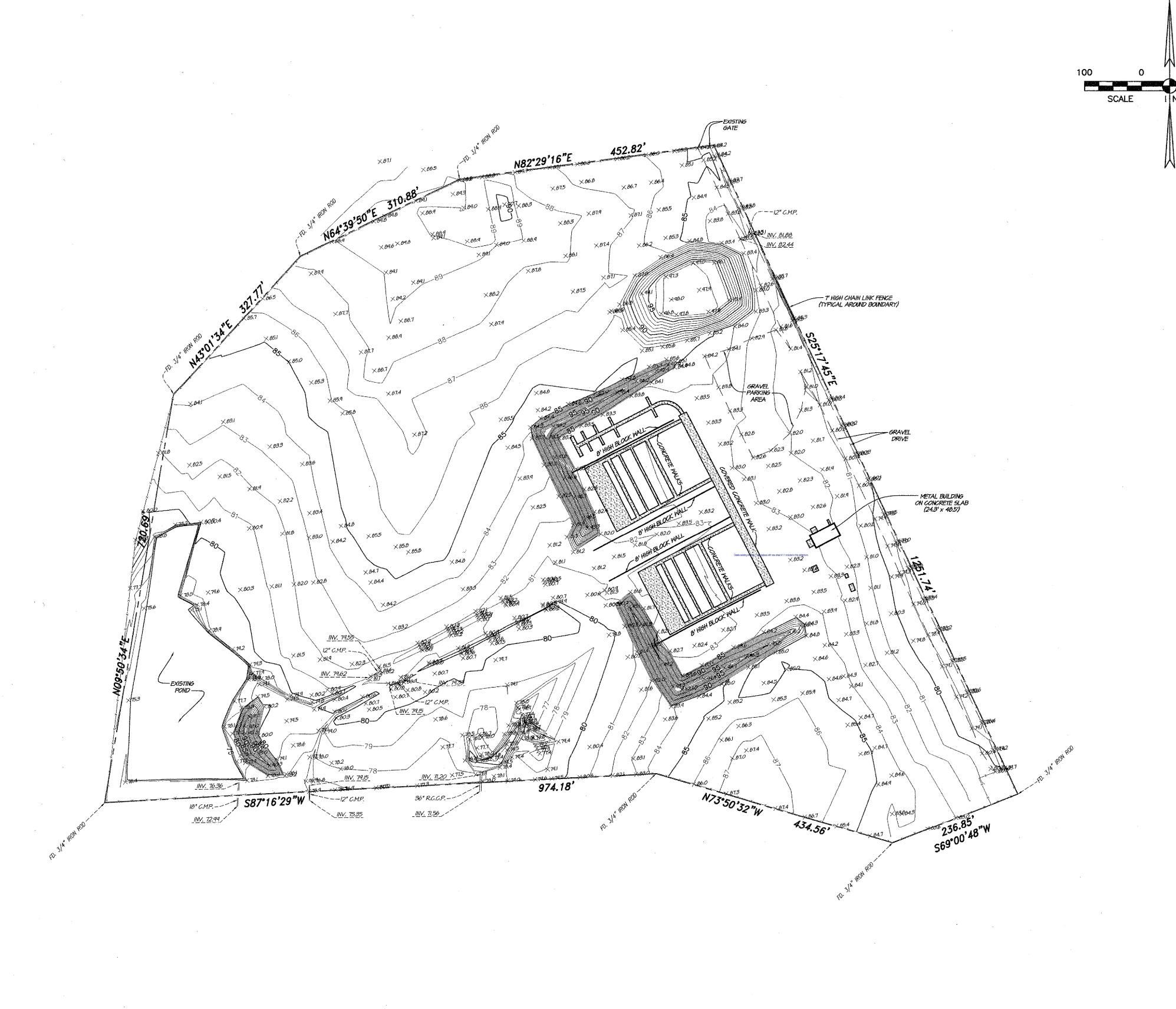
TITLE SHEET

BBI Job No. <u>A24-005</u>
Bate 1<u>0/1/2024</u>

Drawn By _____

SHEE

T 1.





1.) THE INFORMATION SHOWN HEREON AS CONCERNS THE "BOUNDARY" OF THE SURVEYED AREA WAS ESTABLISHED E PROVIDED TO THIS FIRM DURING THE COURSE OF THIS SURVEY OTHER THAN A SKETCH THAT WAS PREPARED BY THE CITY OF BATON ROUGE, INSPECTION DIVISION, CONSTRUCTION & DESIGN SECTION. NO BEARINGS WERE SHOWN ON THE REFERENCED SKETCH AND THE DISTANCES SHOWN ON THIS MAP DO NOT MATCH EXACTLY WITH THE DISTANCES

2.) THE NORTH DIRECTION ARROW, AS SHOWN ON THIS MAP, AND THE BEARINGS, WHICH ARE RELATIVE TO SAID NORTH DIRECTION ARROW, WERE ESTABLISHED USING UNADJUSTED GPS OBSERVATIONS ON TWO OR MORE OF THE FIELD SURVEY POINTS. THE NORTH ARROW AND BEARINGS SHOWN ON THIS MAP ARE APPROXIMATE ONLY AND ARE SHOWN AS A GENERAL BASIS FOR ORIENTATION ONLY. THE ESTABLISHMENT OF COORDINATES AND NORTH ORIENTATION WAS NOT A PART OF THIS SURVEY.

3.) ALL ELEVATIONS SHOWN ON THIS SURVEY ARE REFERENCED OFF OF AND RELATIVE TO U.S. COASTAL GEODETIC SURVEY REFERENCE MONUMENT NO. 170H13 LOCATED AT BARNETT ROAD AND U.S. HWY. 61 WITH A GIVEN ELEVATION OF 93.76

4.) A TEMPORARY BENCHMARK WAS ESTABLISHED ON SITE AND IS DESCRIBED AS A 60D NAIL SET IN A UTILITY POLE NEAR THE NORTHEAST CORNER OF THE PROPERTY SHOWN HEREON. THE ELEVATION OF THIS REFERENCE MARK IS 85.22 FEET

5.) NO ATTEMPT HAS BEEN MADE BY FERRIS ENGINEERING & SURVEYING, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHTS-OF-WAY, WETLANDS OR ENVIRONMENTAL ISSUES OR OTHER ENCUMBRANCES THAT MAY EXIST ON THIS PROPERTY.

6.) THE PURPOSE OF THIS SURVEY WAS TO LOCATE AND MAP TOPOGRAPHIC FEATURES WITHIN THE FENCED AREA AS SHOWN HEREON. THIS MAP IS NOT INTENDED FOR USE OF IDENTIFYING A LEGALLY SUBDIVIDED TRACT OF LAND NOR IS IT INTENDED TO BE USED FOR TRANSFER OF OWNERSHIP.



CERTIFICATION:
THIS IS TO CERTIFY THAT THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS ACTUALLY MADE ON THE GROUND AND THAT
THIS MAP WAS PREPARED IN ACCORDANCE WITH THE FIELD NOTES OF SAID TOPOGRAPHIC SURVEY. THIS MAP IS NOT
INTENDED TO REPRESENT A PROPERTY BOUNDARY SURVEY AS DEFINED BY THE "MINIMUM STANDARDS FOR PROPERTY
BOUNDARY SURVEYS" ESTABLISHED BY THE LOUISIANA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS
AND DAND SURVEYORS.

DARVIN W. FERGUSON, P.L.S. FERRIS ENGINEERING & SURVEYING INC.

NOVEMBER 27, 2001

MAP SHOWING TOPOGRAPHIC SURVEY

PISTOL RANGE OFFICE BUILDING SITE FOR THE CITY OF BATON ROUGE

LOCATED AT 999 WEST IRENE ROAD IN EAST BATON ROUGE PARISH, LOUISIANA

JERRY L. WATTS & ASSOCIATES

FERRIS ENGINEERING & SURVEYING, INC. CIVIL ENGINEERS . LAND SURVEYORS . LAND PLANNING . MUNICIPAL/HIGHWAY

11854 BRICKSOME AVENUE - BATON ROUGE, LOUISIANA 70816 / PH 225-292-6838 - FAX 225-292-0441

CADFILE: 01-116 SURVEY DATE: NOV. 27, 2001 PROJECT NO: 01-116 DWG NO.: 01-S-0050

3 GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- 2. THE CONTRACTOR SHALL CONTACT <u>LOUISIANA ONE-CALL</u> FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
- 3. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. FAILURE OF THE CONTRACTOR TO FOLLOW THIS PROCEDURE SHALL CAUSE THE CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ANY SUBSEQUENT MODIFICATION OF THE WORK MANDATED BY ANY REGULATORY AUTHORITY ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
- 4. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY ITEMS DUE TO CONSTRUCTION OPERATIONS.
- 6. THE GENERAL CONTRACTOR SHALL KEEP THE AREAS USED BY THE CONTRACTOR AND SUB CONTRACTORS BROOM CLEAN AT ALL TIMES AND REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
- 7. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW, ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
- 8. ALL WORK IN RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH "THE CURRENT EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS"
- 9. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL BERSONS AND PROPERTY
- 10. ALL "PLUS OR MINUS" DIMENSIONS ARE TO BE VERIFIED BY THE LOCAL CONTRACTOR.

4 SITE PREPARATION NOTES

- 1. PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT ALL TIMES, INCLUDING DURING CONSTRUCTION.
- 2. AT THE ARE OF THE WORK STRIP ALL TOPSOIL, VEGETATION, ROOTS, TREES AND ANY SOFT SOILS IN THE BUILDING AREA FROM THE SITE AND DISPOSED OF.
- 3. REMOVE ALL EXISTING SITE IMPROVEMENTS, STRUCTURES, ETC. AS NECESSARY TO PERFORM THE WORK. COORDINATE WITH ARCHITECT AND OWNER IN THE FIELD THE EXACT ITEMS TO BE REMOVED.
- 4. UNDER AND 5' BEYOND THE PERIMETER OF THE EXISTING BUILDINGS REMOVE EXISTING SOIL TO 12" MINIMUM BELOW THE FOOTINGS (OR AS NEEDED TO REMOVE LOOSE OR UNSUITABLE SOILS THAT CANNOT BE IMPROVED BY COMPACTION) IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT
- 5. AT PARKING AND DRIVEWAYS REMOVE EXISTING SOIL TO 12" MINIMUM OR AS NEEDED TO REMOVE LOOSE OR UNSUITABLE SOILS THAT CANNOT BE IMPROVED BY COMPACTION.
- 6. AFTER STRIPPING AND UNDERCUTTING THE EXPOSED SUBGRADE IN AREAS TO SUPPORT PAVEMENT (OR LIMESTONE) SHALL BE PROOF-ROLLED WITH A HEAVY, LOADED PNEUMATIC-TIRED VEHICLE WEIGHING
- 7. PROOF-ROLL ALL AREAS TO RECEIVE NEW WORK TO IDENTIFY LOOSE OR SOFT SOILS. (ALL ROOF-ROLLING AND UNDERCUTTING ACTIVITIES SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.)
- 8. ANY WEAK AREAS WHICH YIELD UNDER THE PROOF-ROLL, OR ANY AREAS WITH A TENDENCY TO PUMP SHOULD BE MITIGATED. SUCH MITIGATION MAY INCLUDE OVEREXCAVATION AND BACKFILLING, REPROCESSING TO REMOVE MOISTURE, MODIFICATION WITH LIME OR CEMENT ADMIXTURE, OR USING GEOTEXTILES.
- 9. AFTER STRIPPING, EXCAVATING AND PROOF-ROLLING BUT PRIOR TO PLACING FILL, THE EXPOSED SOILS SHOULD BE SCARIFIED AND THEN PROCESSED TO A MOISTURE CONTENT BETWEEN ONE (1) PERCENTAGE POINT BELOW AND THREE (3) PERCENTAGE POINTS ABOVE THE STANDARD PROCTOR OPTIMUM. THE SUBGRADE SOILS SHOULD BE RE-COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY FOR A DEPTH OF AT LEAST EIGHT (8) INCHES BELOW THE SURFACE.

5 SELECT FILL NOTES

- 1. AFTER THE SUBGRADE HAS BEEN PREPARED AND INSPECTED, FILL PLACEMENT MAY BEGIN.
- 2. SELECT FILL MATERIAL SHOULD BE FREE OF ORGANIC OR OTHER DELETERIOUS MATERIALS, HOMOGENEOUS MIXTURE, HAVE A MAXIMUM PARTICLE SIZE OF TWO (2) INCHES, HAVE A LIQUID LIMIT LESS THAN 40 AND PLASTICITY INDEX BETWEEN 12 AND 22, AND CONSIST OF PUMPED RIVER SAND (SP-SM), LEAN CLAY (CL), OR CLAYEY SAND AGGREGATE BASE (GP) (ARE COMMONLY AVAILABLE TO THIS REGION) AS DEFINED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM. AND IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT.
- 3. SAMPLES OF PROPOSED FILL MATERIAL SHALL BE SENT TO THE GEOTECHNICAL ENGINEER TO VERIFY THAT THE MATERIAL IS SUITABLE FOR USE AS STRUCTURAL FILL AND TO ESTABLISH COMPACTION MOISTURE—DENSITY RELATIONSHIPS FOR USE AS REFERENCE FOR THE FIELD DENSITY TESTING.
- 4. FILL SHOULD BE PLACED IN MAXIMUM LIFTS OF 8" OF LOOSE MATERIALS AND COMPACTED WITHIN THE RANGE OF 1% POINT BELOW TO 3% POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE AND A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-698) TEST
- 5. FIELD DENSITY TESTS SHALL BE TAKEN AT A FREQUENCY OF NOT LESS THAN ONE (1) TEST PER 2,500 SQUARE FEET OF SURFACE AREA PER LIFT OR A MINIMUM OF TWO (2) PER LIFT FOR EACH TESTED AREA FOR THE BUILDING AREA.
- 6. PROVIDE 4" MINIMUM SAND OR GRAVEL SUBGRADE CAPILLARY BARRIER AND LEVEL-UP COURSE.
- 7. AT UTILITY TRENCHES, BACKFILL AND COMPACT. BACKFILL SHOULD BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIALS AND COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-698) TEST.

6 SANITARY SEWAGE TREATMENT UNIT

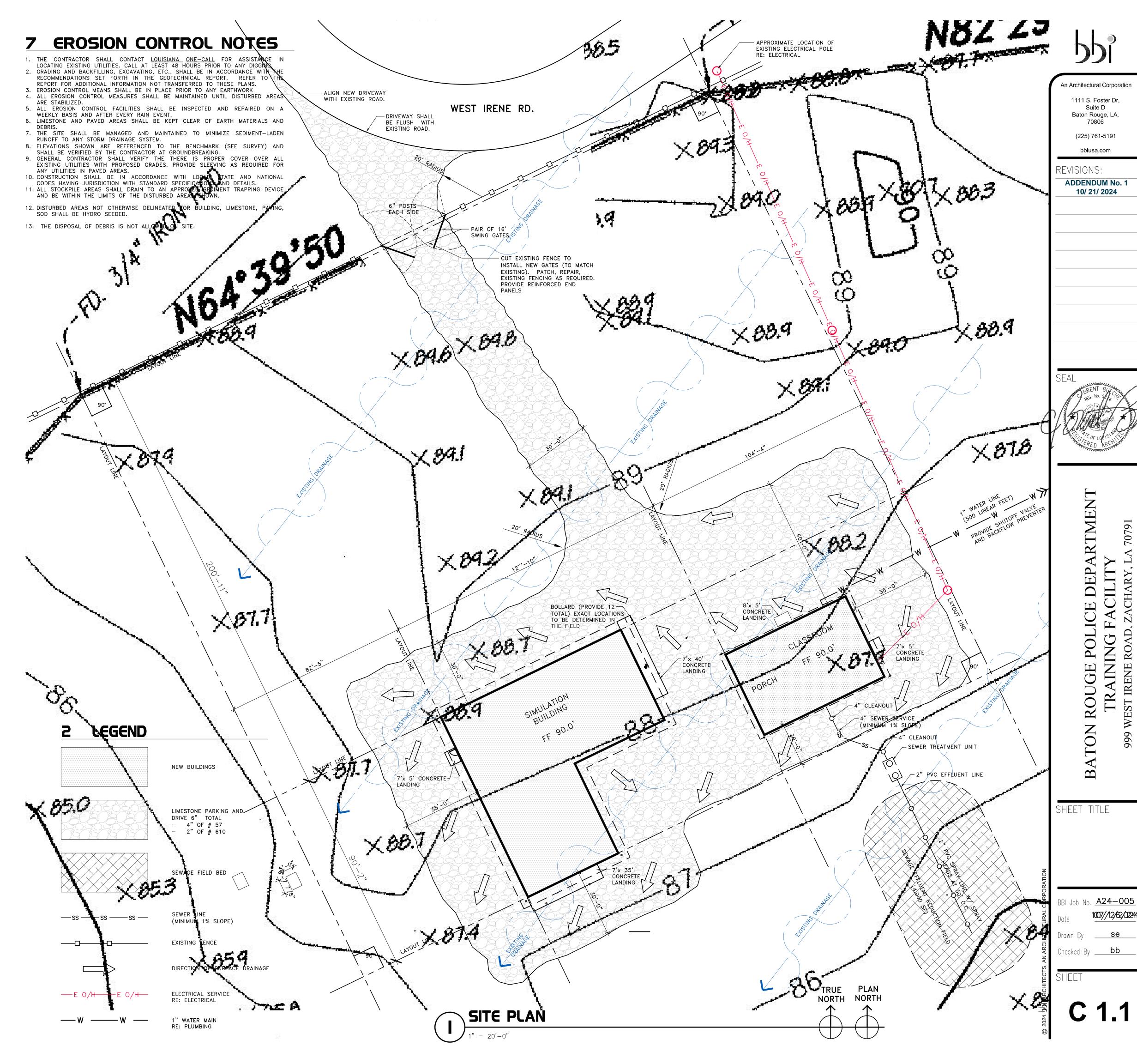
- WHITEWATER AEROBIC TREATMENT UNIT
- 1. BASIS OF DESIGN: DELTA ENVIRONMENTAL PRODUCTS, INC. MODEL DF75 OR APPROVED EQUAL BY ENVRO-FLO, OR PRIOR APPROVED EQUAL
- 2. PRODUCT:
- A. CAPACITY 1,197 GALLONS
 B. SYSTEM SHALL INCLUDE AERATION TANK, AIR DIFFUSION SYSTEM WITH BLOWER ASSEMBLY, AND
- INNER CIRCULAR TYPE CONICAL UPWELLING CLARIFIER.

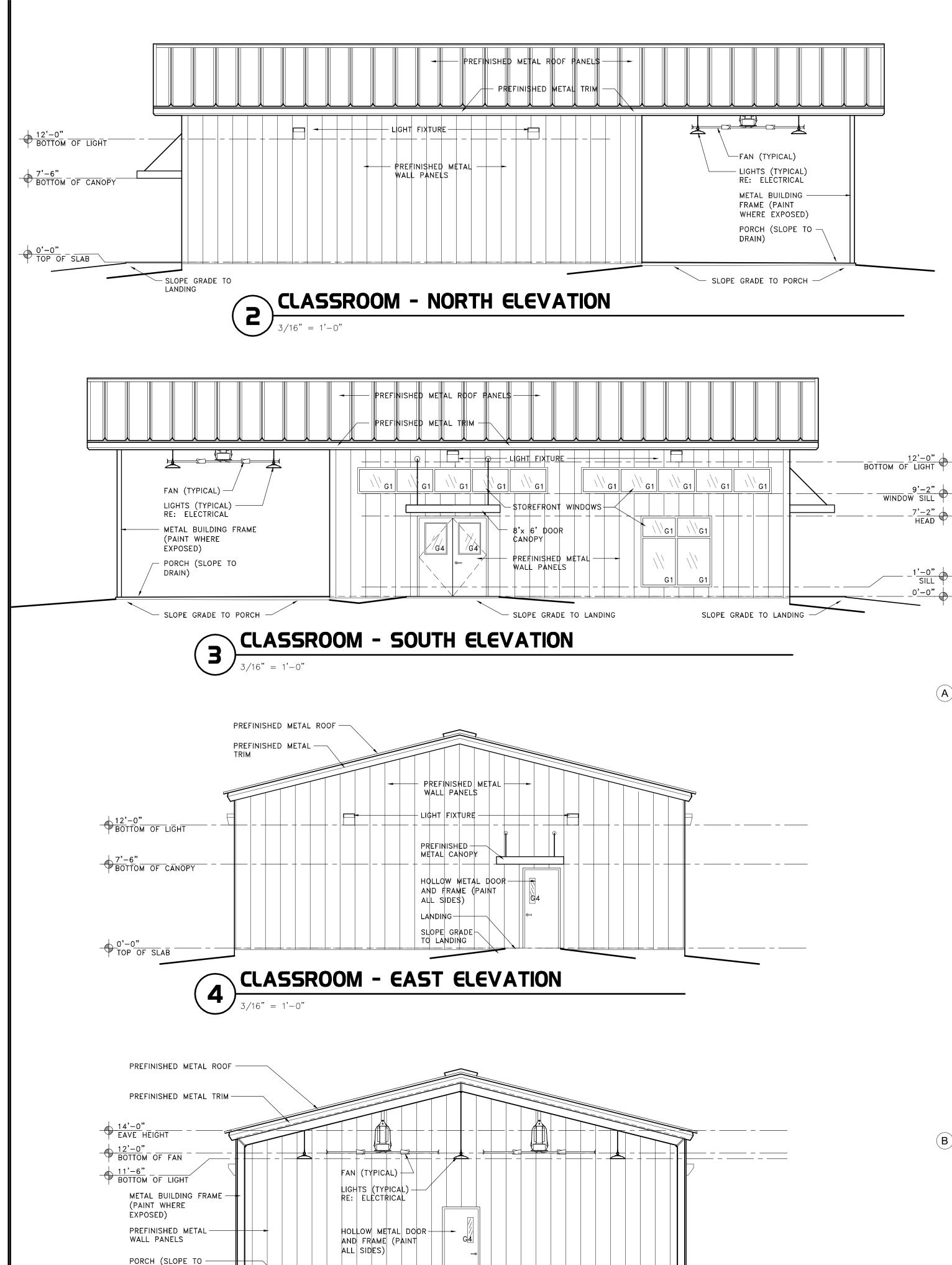
 C. THE UNIT SHALL COMPLY WITH ANSI/NSF INTERNATIONAL, STANDARD 40, CLASS 1 APPROVED,
- OBC AND BMEC AUTHORIZED.

 3. OPERATING CONDITIONS
- A. UNIT SHALL BE DESIGNED TO TREAT 625 GALLONS PER DAY OF DOMESTIC RAW SEWAGE WASTE.

 B. AIR INJECTION RATE OF 2,100 CUBIC FEET/POUND OF BIOLOGICAL OXYGEN DEMAND.
- 4. AERATION TANK CAPACITY: 840 GALLONS OF 24 HOUR HYDRAULIC DETENTION TIME AT THE AVERAGE DAILY FLOW (ADF).
- 5. CLARIFIER CAPACITY: 350 GALLONS FOR 8 HOURS HYDRAULIC DETENTION AT THE AVERAGE DAILY
- 6. AERATION BLOWER/COMPRESSOR: 2,100 CUBIC FEET/POUND OF BODS INFLUENT AT THE REQUIRED DISCHARGE PRESSURE.
- 7. AIR DIFFUSION SYSTEM: 3/4" SCHEDULE 40 PVC PIPE TO DIFFUSERS. EACH PIPE SHALL BE SLOTTED
- 8. ELECTRICAL CONTROLS: LINEAR AIR COMPRESSOR 115V / SINGLE PHASE / 60HZ / 63 WATTS
 A. SYSTEM SHALL BE ANSI/NSF INTERNATIONAL CERTIFIED UTILIZING UL AND CSA RATED
 COMPONENTS IN AN INDOOR/OUTDOOR NEMA 3R PAINTED STEEL ENCLOSURE.
- 9. CONSTRUCTION: TANK SHALL BE TRAFFIC RATED, PRECAST CONCRETE

FOR PROPER AIR DIFFUSION AND DESIGNED FOR NON-CLOGGING.





CLASSROOM - WEST ELEVATION

DRAIN)

6 EXAMINATION

PRIOR TO PERFORMING ANY WORK THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL EXAMINE THE EXISTING WORK AND WORK

- CONDITIONS:

 1. VERIFY QUANTITY AND QUALITY OF MATERIALS PROVIDE BY ALL SUBCONTRACTORS ARE ACCORDING TO SPECIFICATIONS.

 2. EXAMINE THE CONDITION OF ALL EXISTING WORK THAT MAY
- IMPACT THE QUALITY OF THE SUBCONTRACTOR'S PORTION OF THE WORK.

 3. PREPARE ALL SUBSTRATES AS REQUIRED TO RECEIVE WORK
- AND ENSURE ALL CONDITIONS ARE SATISFACTORY TO PROCEED.

 A. PREPARATION OF SUBSTRATES INCLUDES, BUT IS NOT LIMITED TO, SUBSTRATE REPAIRS, SECUREMENT OF SUBSTRATES, ELIMINATING ALL INCOMPATIBLE MATERIALS,
- AND CLEANING.

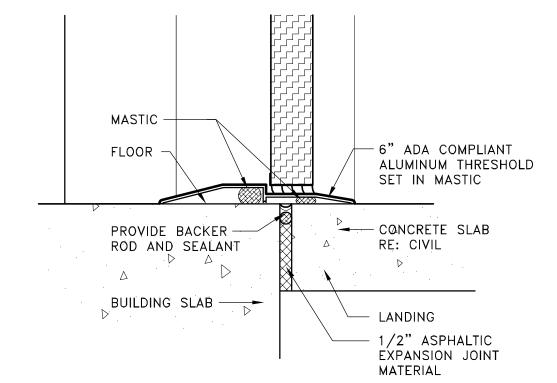
 7. VERIFY THE BUILDING CONDITIONS, WEATHER, AND OTHER ENVIRONMENTAL CONDITIONS ARE SATISFACTORY TO PERFORM
- THE WORK.
 WHERE PROJECT CONDITIONS ARE FOUND TO BE
 UNSATISFACTORY, WORK SHALL NOT BEGIN UNTIL CONDITIONS
 ARE MADE SATISFACTORY. COMMENCING OF WORK SHALL
- INDICATE CONTRACTOR'S ACCEPTANCE OF CONDITIONS.

 DURING THE PERFORMING OF THE WORK THE SUBCONTRACTOR SHALL CONTINUE TO EXAMINE ALL PROJECT CONDITIONS TO ENSURE THEY REMAIN SATISFACTORY TO COMPLETE THE SPECIFIED WORK.

7 GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. IF CONDITIONS ARE NOT AS INDICATED NOTIFY THE ARCHITECT.
- 2. ALL WORK SHALL COMPLY WITH CURRENT EDITIONS OF ALL APPLICABLE LOCAL, STATE, NATIONAL CODES AND ORDINANCES, AS WELL AS LOUISIANA NATIONAL GUARD STANDARDS AND OTHER AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- 3. SCOPE OF WORK SHALL INCLUDE ANY AND ALL WORK REQUIRED TO ACCOMPLISH THE WORK SHOWN OR REQUIRED BY THIS CONTRACT.
- 4. ALL PLUS OR MINUS DIMENSIONS SHALL BE FIELD VERIFIED
- DIMENSIONS ARE FROM THE OUTSIDE FACE OF STEEL (UNLESS OTHERWISE NOTED)
- 6. COORDINATE ROUGH OPENING SIZES OF ALL DOOR AND WINDOWS PRIOR TO CONSTRUCTION.
- 7. ALL WARRANTIES SHALL COMMENCE ON THE DATE OF SUBSTANTIAL COMPLETION

CLASSROOM - FLOOR PLAN

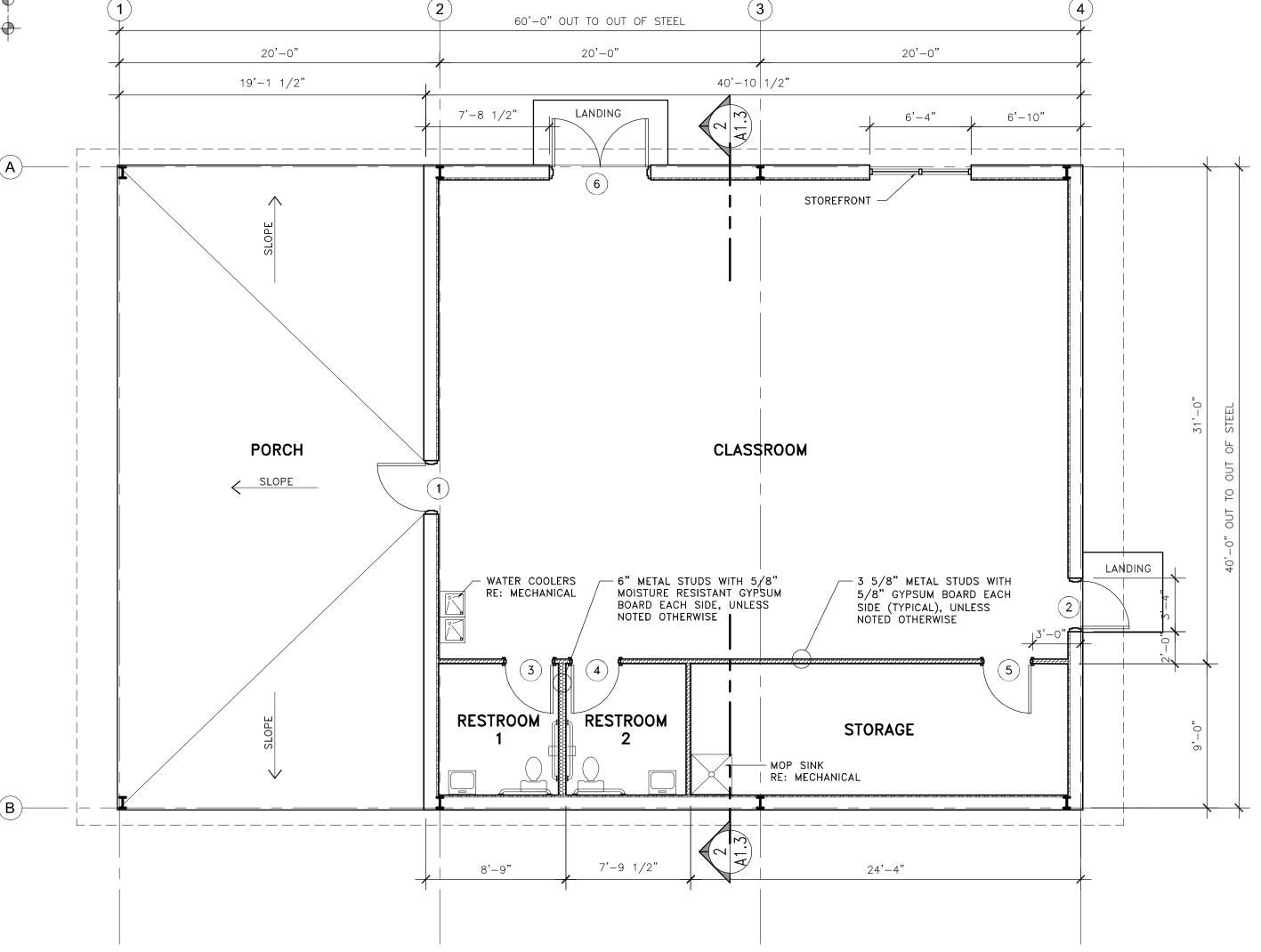




9 PROJECT NOTES

PLAN NORTH

- 1. PROVIDE (2) 10 POUND ABC FIRE EXTINGUISHERS IN CABINETS
- 2. PROVIDE DOOR SIGNS AT EACH INTERIOR DOOR
- 3. PROVIDE ADHESIVE APPLIED FLEXIBLE VINYL CORNER GUARDS AT EXTERIOR DOORS WITH EXPOSED OUTSIDE GYPSUM BOARD CORNERS



An Architectural Corporation

1111 S. Foster Dr, Suite D Baton Rouge, LA.

70806 (225) 761-5191

REVISIONS:

bbiusa.com

ADDENDUM No. 1 10/ 21/ 2024

SEAL

REG. No. 5 / CHANGE

RED ARCHARA

ATON ROUGE POLICE DEPARTMEN
TRAINING FACILITY
999 WEST IRENE ROAD, ZACHARY, LA 70791

SHEET TITLE

FLOOR PLAN ELEVATION

BBI Job No. <u>A24-005</u>
10/1/2024

Drawn By AP

Checked By bb

SHFFT

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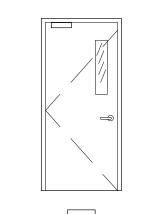
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|------------|----------------------|--------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|---------|
| | | | | WA | LLS | | | |
| ROOM NAME | FLOOR | BASE | NORTH | SOUTH | EAST | WEST | CEILING | REMARKS |
| CLASSROOM | POLISHED CONCRETE | RUBBER | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | LAY-IN CEILING | |
| STORAGE | POLISHED CONCRETE | RUBBER | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | |
| RESTOOM 1 | POLISHED CONCRETE | RUBBER | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | |
| RESTROOM 2 | POLISHED CONCRETE | RUBBER | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | PAINTED GYPSUM BOARD | |
| | | | | | | | | |
| | | | | | | | | |

FINISH NOTES

- 1. THE PAINTING CONTRACTOR SHALL PAINT THE DOOR FRAMES USING A SMOOTH (FOAM) ROLLER COAT FOR THE FIRST COAT AND A BRUSH FOR THE FINISH COAT.
- 2. FULLY PRIME AND PAINT ALL EXTERIOR FERROUS METALS WITH ONE COAT OF PRIMER FOLLOWED BY TWO COATS OF PAINT UNLESS NOTED OTHERWISE.
- 3. PAINT LUSTER: 3.1. PROVIDE SATIN FINISH ON WALLS,
- 3.2. FLAT ON CEILINGS AND 3.3. SEMI-GLOSS ON DOORS, DOOR FRAMES, TRIM & MILLWORK
- 4. PROVIDE 5/8" GYPSUM BOARD TYPICALLY. UNLESS NOTED
- WITHIN 4'-0" OF ALL SIDES OF SINKS.

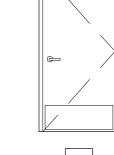
6. ALL GYPSUM BOARD TO BE FASTENED WITH SCREWS, NOT NAILS.

- 5. PROVIDE MOISTURE RESISTANT GYPSUM BOARD 3'-0" ABOVE AND
- 7. PROVIDE ORANGE PEEL FINISH ON ALL EXPOSED GYPSUM BOARD
- 8. LIGHTING, NORMAL SAFETY, "WET PAINT" SIGNS, ETC. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OSHA REQUIREMENTS WHILE WORK IS IN PROGRESS.
- 9. CEILING TILES SHALL BE CLASSIFIED AS CLASS "A".
- 10. THE WORK WILL CONSIST OF ALL PREPARATION, PAINTING, FINISHING WORK, CLEAN UP AND RELATED ITEMS NECESSARY TO COMPLETE WORK DESCRIBED IN THESE SPECIFICATIONS.
- 11. KEEP SURFACES, DUST, DIRT AND DEBRIS FREE BEFORE AND DURING PAINTING.

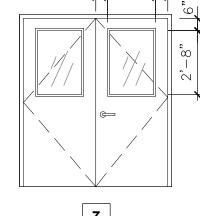


FLUSH W/ 6"X 27"

LITÉ KIT



FLUSH

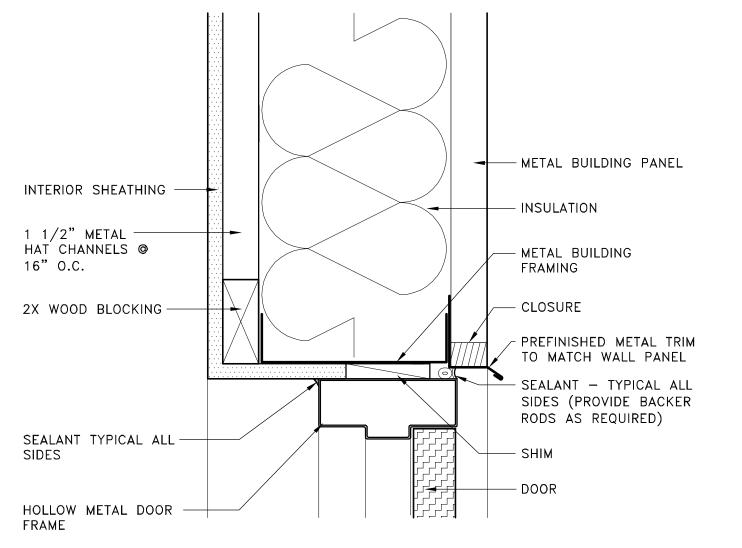


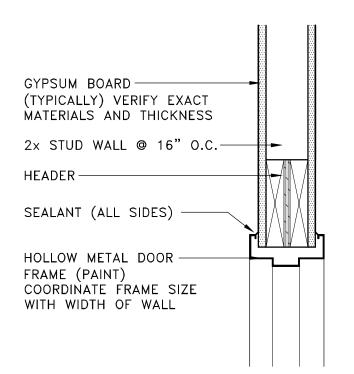
3 DOUBLE FLUSH WITH HALF GLASS

DOOR TYPES

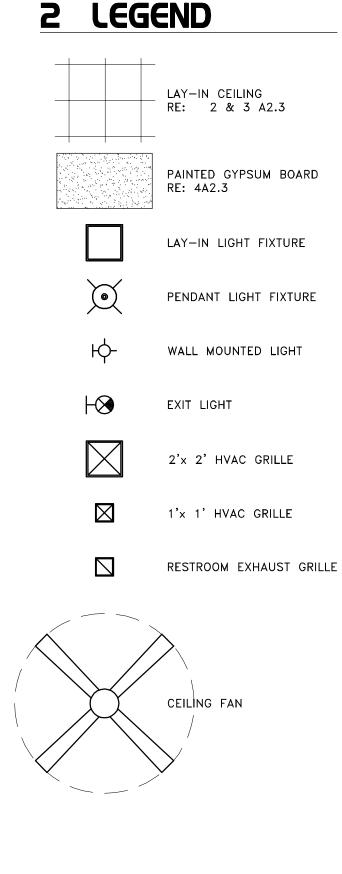
| 7 | HA | RDWARE SCHEDULE |
|-----|-------|---|
| SET | QTY. | ITEM |
| | 1 | PIANO HINGE |
| | 1 | EXIT DEVICE WITH NIGHT LATCH LEVER TRIM |
| 1 | 1 | CYLINDER (KEYED) |
| | 1 | DOOR CLOSER WITH HOLD OPEN |
| | 1 SET | WEATHER-STRIPPING |
| | 1 | SPRING LOADED PIANO HINGE |
| | 1 | LOCKSET (RESTROOM FUNCTION AT RESTROOMS) (STOREROOM FUNCTION ATE STORAGE ROOM |
| 2 | 1 SET | WEATHER-STRIPPING |
| | 2 | KICKPLATE |
| | 1 | COAT HOOK (MOUNTED TO INSIDE OF DOOR) |
| | 2 | CONTINUOUS HINGE |
| | 2 | DOOR CLOSER WITH HOLD OPEN |
| _ | 2 | TOP AND BOTTOM JAMB MOUNTED MANUAL FLUSH BOLTS (INACTIVE LEAF) |
| 3 | 1 SET | TOP AND BOTTOM DUSTPROOF STRIKES |
| | 1 SET | LOCKSET (ENTRANCE FUNCTION) |
| | 1 SET | WEATHER-STRIPPING |

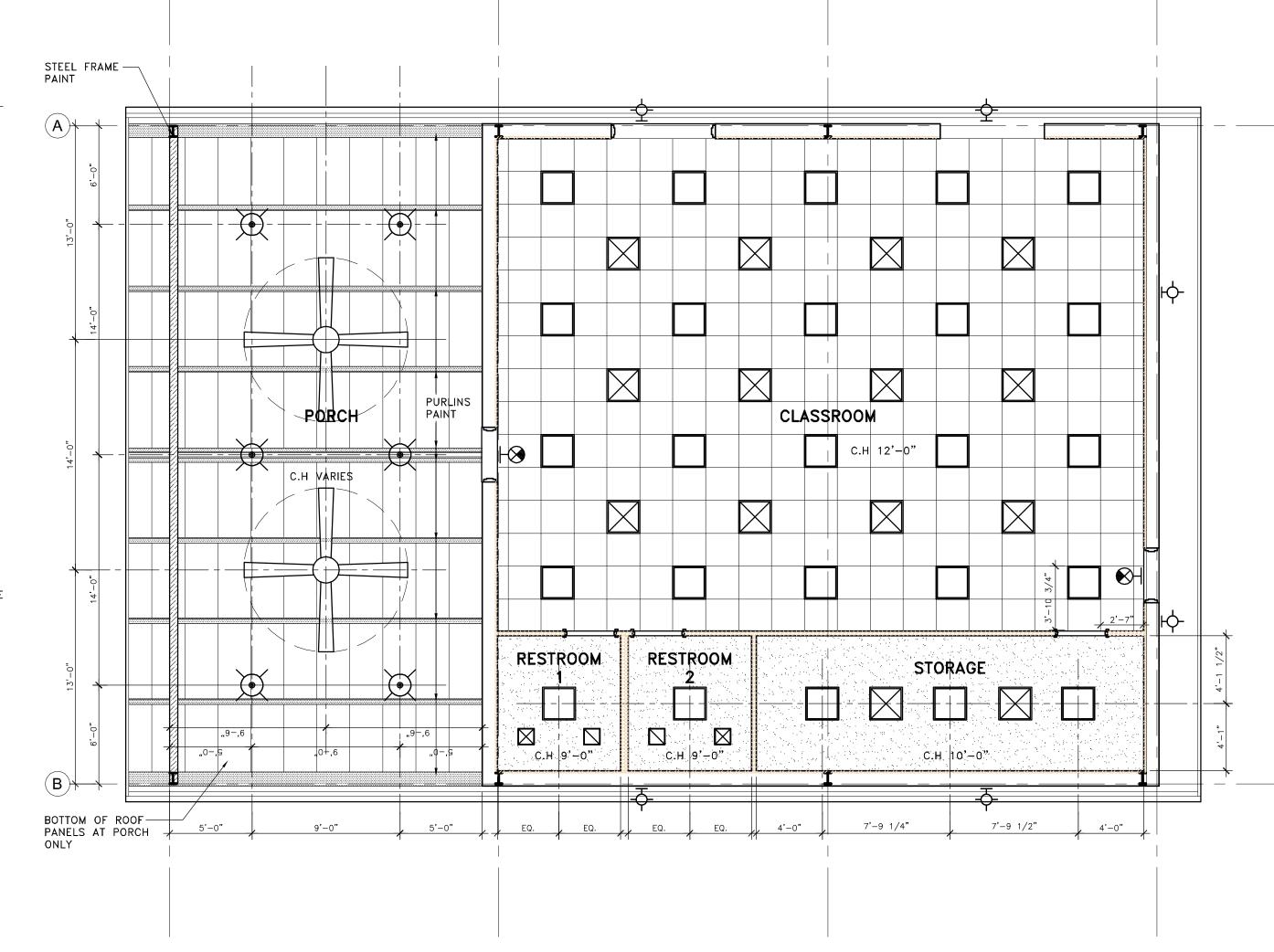
DOOR SCHEDULE DOOR FRAME DETAILS REMARKS SIZE TYPE MATERIAL **FINISH** HEAD JAMB MATERIAL FINISH SIZE HOLLOW METAL $3'-0" \times 7'-0" \times 1-3/4"$ SET #1 8A1.2 9A1.2 8A1.1 HOLLOW METAL GALVANIZED 7 3/4 PAINT ALL SIDES PAINT ALL SIDES GALVANIZED HOLLOW METAL PAINT ALL SIDES $3'-0" \times 7'-0" \times 1-3/4"$ PAINT ALL SIDES SET #1 8A1.2 9A1.2 HOLLOW METAL GALVANIZED 7 3/4 8A1.1 GALVANIZED HOLLOW METAL 4 3/4 SET #2 | 10A1.2 $3'-0" \times 7'-0" \times 1-3/4"$ PAINT ALL SIDES 11A1.2 ___ HOLLOW METAL GALVANIZED PAINT ALL SIDES GALVANIZED THRÓAT HOLLOW METAL $3'-0" \times 7'-0" \times 1-3/4"$ SET #2 10A1.2 PAINT ALL SIDES 11A1.2 HOLLOW METAL GALVANIZED PAINT ALL SIDES GALVANIZED THROAT 4 3/4 $3'-0" \times 7'-0" \times 1-3/4"$ HOLLOW METAL PAINT ALL SIDES 10A1.2 11A1.2 ---HOLLOW METAL PAINT ALL SIDES THRÓAT PAIR HOLLOW METAL SET #3 PAINT ALL SIDES 8A1.2 9A1.2 8A1.1 HOLLOW METAL GALVANIZED 7 3/4 PAINT ALL SIDES 3'-0"x 7'-0"x 1-3/4" GALVANIZED



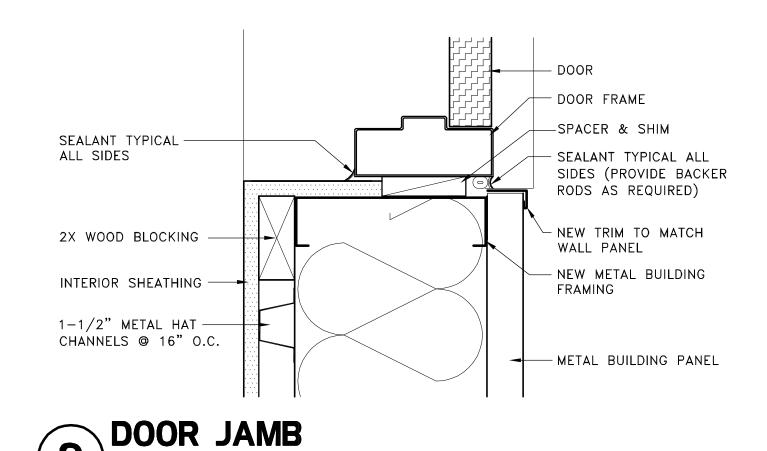


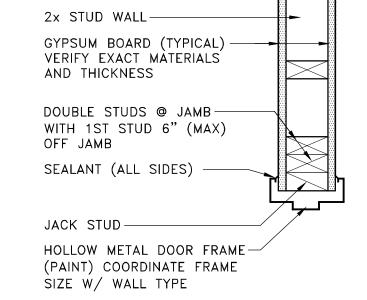












DOOR HEAD

PROVIDE 3 ANCHORS AT EACH JAMB.

CLASSROOM CEILING PLAN

PLAN NORTH

An Architectural Corporation

1111 S. Foster Dr,

Suite D

Baton Rouge, LA. 70806 (225) 761-5191

bbiusa.com

REVISIONS: ADDENDUM No. 1 10/ 21/ 2024

SHEET TITLE

CEILING PLAN

DOOR AND FINISHES SCHEDULES

BBI Job No. <u>A24-005</u> 10/1/2024

Drawn By Checked By ____bb_

SHEET

4 2015 NFPA 101

| OCCUPANCY | BUSINESS | | | | |
|---|------------------------|--|--|--|--|
| CONSTRUCTION | NEW | | | | |
| OCCUPANT LOAD | 100sf PER PERSON | | | | |
| CLASSIFICATION OF CONTENTS | ORDINARY | | | | |
| CONSTRUCTION TYPE | II (000) | | | | |
| SPRINKLER | NOT REQUIRED | | | | |
| FIRE ALARM | NOT REQUIRED | | | | |
| | | | | | |
| <u>OCCUPANT LOAD</u> SQUARE FOOTAGE (UNDER ROOF) | 2400 SQUARE FEET | | | | |
| SQUARE FOOTAGE (ENCLOSED) | 1635 SQUARE FEET | | | | |
| OCCUPANT LOAD | 100 SF PER PERSON | | | | |
| OCCUPANCY | 17 PEOPLE | | | | |
| REQUIRED WIDTH OF EGRESS | 17 PEOPLE x 0.2 = 3.4" | | | | |
| PROVIDED WIDTH OF EGRESS | 72" | | | | |

5051 IBC CODE

| OCCUPANCY | BUSINESS |
|--------------------------|--------------|
| CONSTRUCTION | NEW |
| ALLOWABLE HEIGHT IN FEET | 40' |
| ALLOWABLE STORIES | 2 |
| ALLOW AREA | 9000 SF |
| SPRINKLER | NOT REQUIRED |
| CONSTRUCTION TYPE | II |
| ACTUAL HEIGHT IN FEET | 19'-2" |
| ACTUAL STORIES | 1 |
| SQUARE FOOTAGE | 1635 SF |
| OCCUPANT LOAD | 17 PEOPLE |

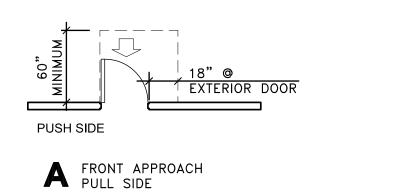
6 ACCESSIBILITY NOTES

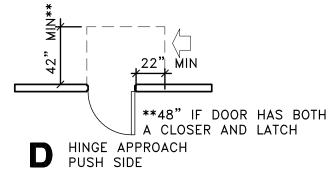
- 1. ALL LIGHT SWITCHES, VOLUME CONTROLS AND THERMOSTATS IN PUBLIC AREAS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F.
- 2. ALL PANIC HARDWARE SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F.
- 3. DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- 4. THE FLOOR SHALL BE LEVEL ON BOTH SIDES OF ALL INTERIOR DOORS.
- 5. FLOOR AND LANDING SURFACES AT EXTERIOR DOORS SHALL BE AT THE SAME ELEVATION. THE INTERIOR SURFACE SHALL BE LEVEL (NO SLOPE) EXTERIOR SURFACE SHALL HAVE A SLOPE OF 2% (MAXIMUM) IN THE DIRECTION OF WATER DRAINAGE.
- 6. ALL THRESHOLDS, FLOOR LEVEL CHANGES AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
- 7. ALL FLOOR DRAINS SHALL BE LOCATED OUT OF THE PATH OF TRAVEL SO THAT THE FLOOR DOES NOT HAVE A SLOPE GREATER THAN 1:50 (2%) ALONG AN ACCESSIBLE ROUTE.
- 8. EXTERIOR WALKING SURFACE THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL HAVE A 2% CROSS SLOPE MAXIMUM (IN THE DIRECTION OF WATER DRAINAGE)
- SIDE OF THE TOILET AREA AND REQUIRE 5 LBS. OF FORCE OR LESS TO 10. FAUCETS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE

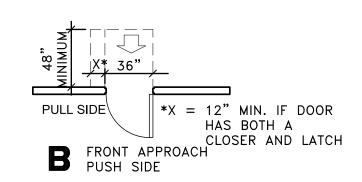
9. FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE

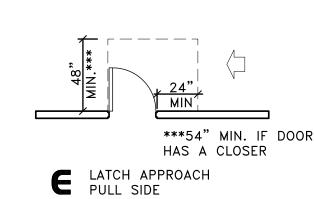
- TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. THE FORCE REQUIRED TO ACTIVATE SHALL BE 5 POUNDS MAXIMUM.
- 11. LAVATORIES SHALL HAVE LEVER HANDLES AND SHOULD EXTEND 17" MINIMUM FROM THE REAR WALL, BE MOUNTED 34" A.F.F. AND HAVE 27" MINIMUM KNEE CLEARANCE EXTENDING 8" MINIMUM UNDER THE EDGE OF THE LAVATORY.
- 12. ALL EXPOSED DRAIN LINES AND WATER LINES UNDER LAVATORIES SHALL BE
- 13. GRAB BARS SHALL BE 1 1/4" TO 1 1/2" DIAMETER, MOUNTED 33" 36" A.F.F. THE SPACE BETWEEN GRAB BARS AND ADJACENT WALL SURFACE SHALL BE 1 1/2". GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 14. MIRRORS SHALL BE MOUNTED 40" MAX TO THE BOTTOM OF THE REFLECTIVE
- 15. COAT HOOKS IN THE TOILET STALLS SHALL BE MOUNTED TO THE BACKSIDES OF DOORS AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD
- 16. IF UMBRELLAS OR AWNINGS ARE USED ON THE SITE, THE BOTTOM FLAPS SHALL BE A MINIMUM OF 6'-8" ABOVE THE FINISHED GRADE.
- 17. ACCESSIBLE TABLES SHALL BE A MINIMUM OF 27" CLEAR KNEE SPACE A.F.F. AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP. TOP OF TABLE SHALL BE 34" A.F.F.
- 18. FOR CLARIFICATIONS OF REQUIREMENTS OR QUESTIONS PLEASE CONTACT THE

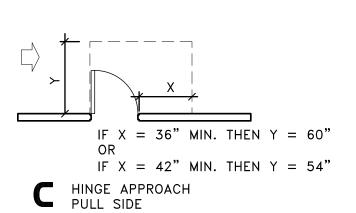
DOOR CLEARANCE LEGEND

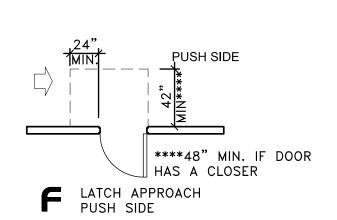












8 CODE NOTES

- ADDITIONAL RESTROOMS ARE PROVIDED IN THE MAIN BUILDING
- 2. THERE IS 37' CLEAR SPACE BETWEEN BUILDINGS. ASSUMING THE COMMON PROPERTY LINE WILL BE IN THE MIDDLE, THIS WOULD PROVIDE $18^{\prime}-6^{\prime\prime}$ FROM BUILDING TO PROPERTY LINE

9 SQUARE FOOTAGE

| PORCH | ROOF | 1600 SF 800 SF |
|-------|------|-------------------|
| TOTAL | | 2400 S |

3 LEGEND

30"x 48" CLEAR FLOOR SPACE AT FIXTURES (WHEEL CHAIR SPACE)

MANEUVERING CLEARANCE

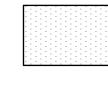
5'-0" CLEAR AND LEVEL

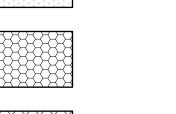
SPACE AT DOORS (EXTERIOR)

2% SLOPE OR LESS SLOPE /

AT MANUAL DOORS

CROSS SLOPE.

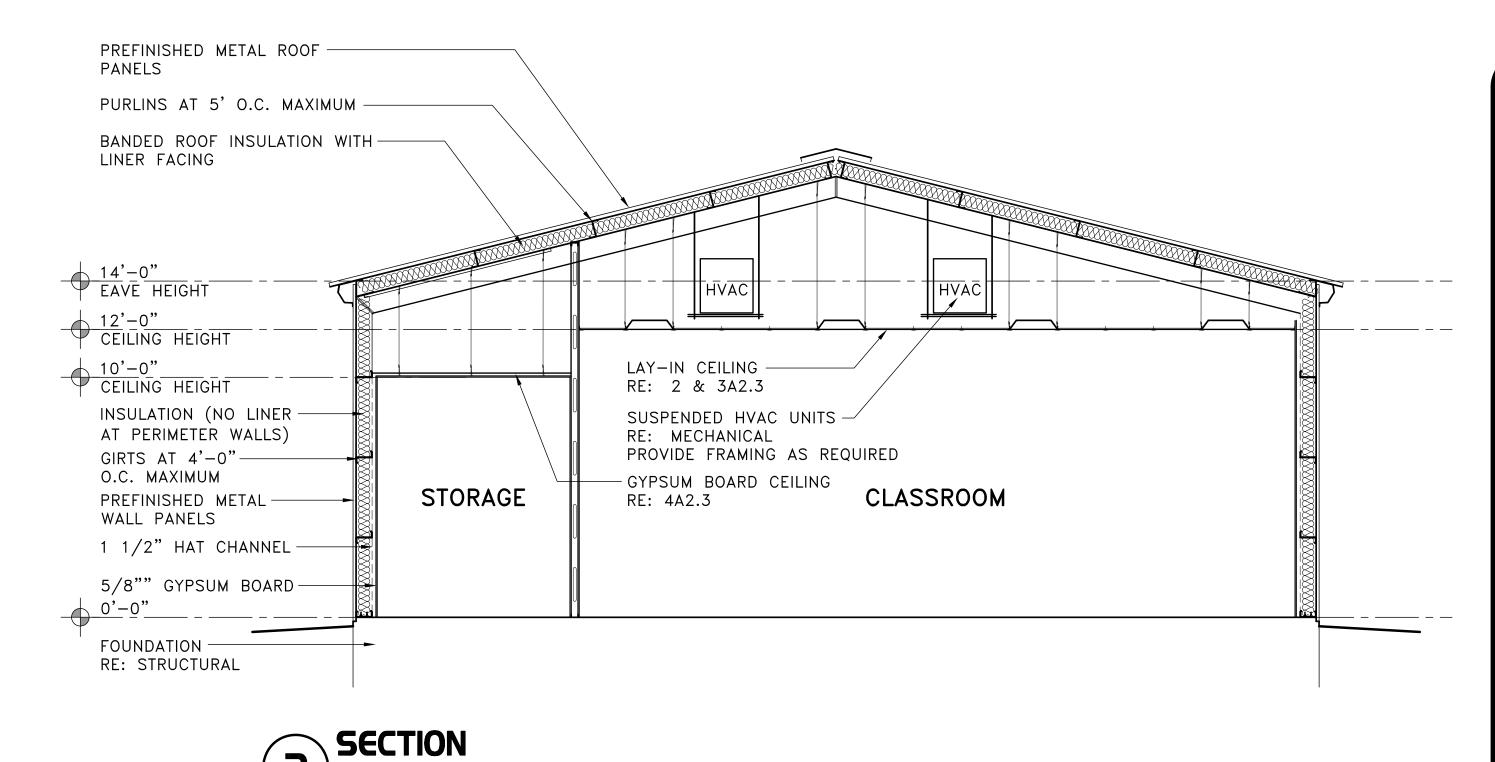


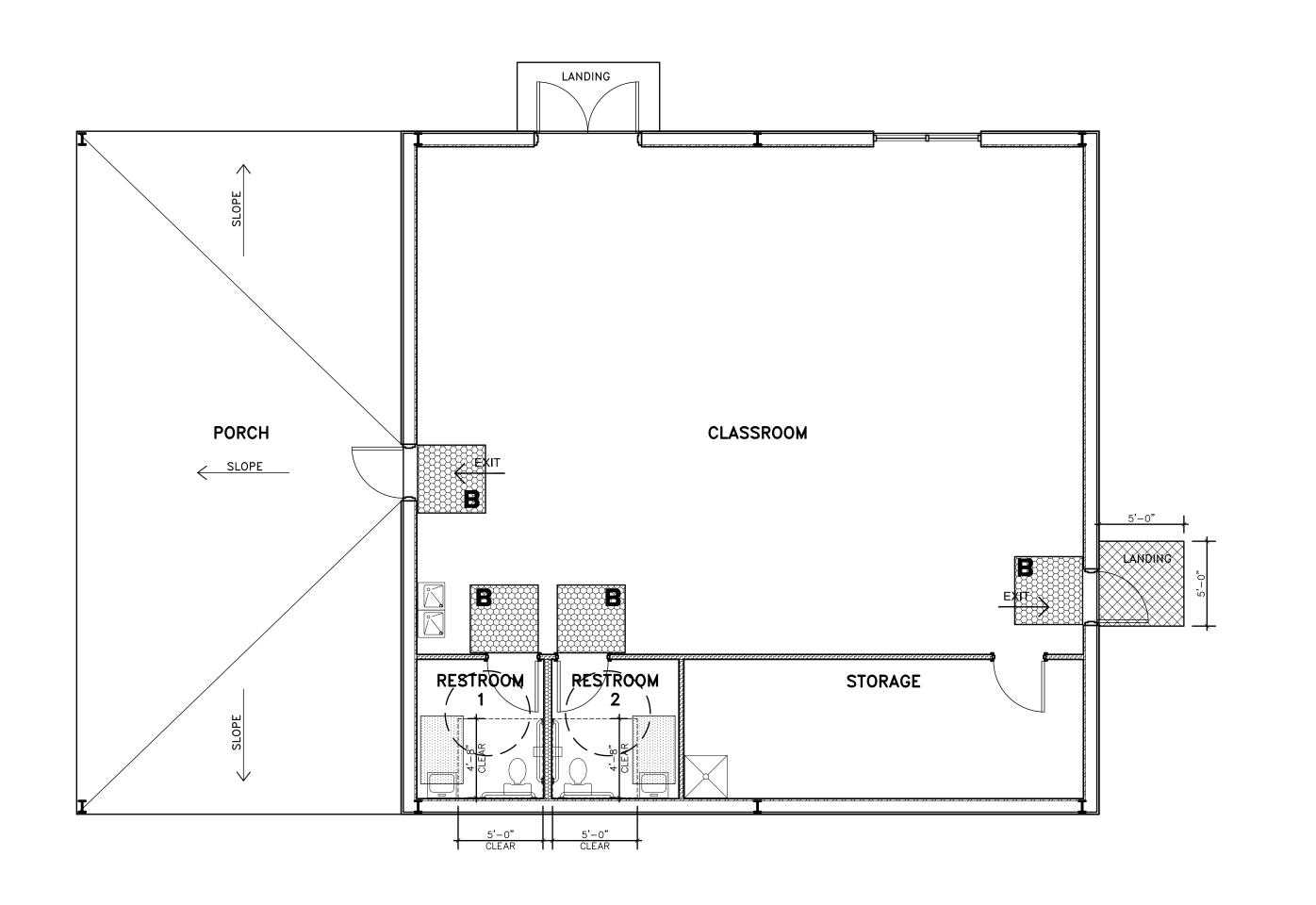


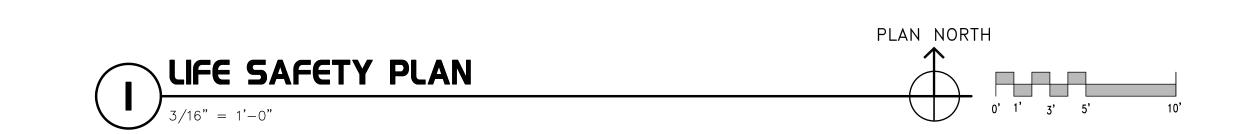


DOOR APPROACH









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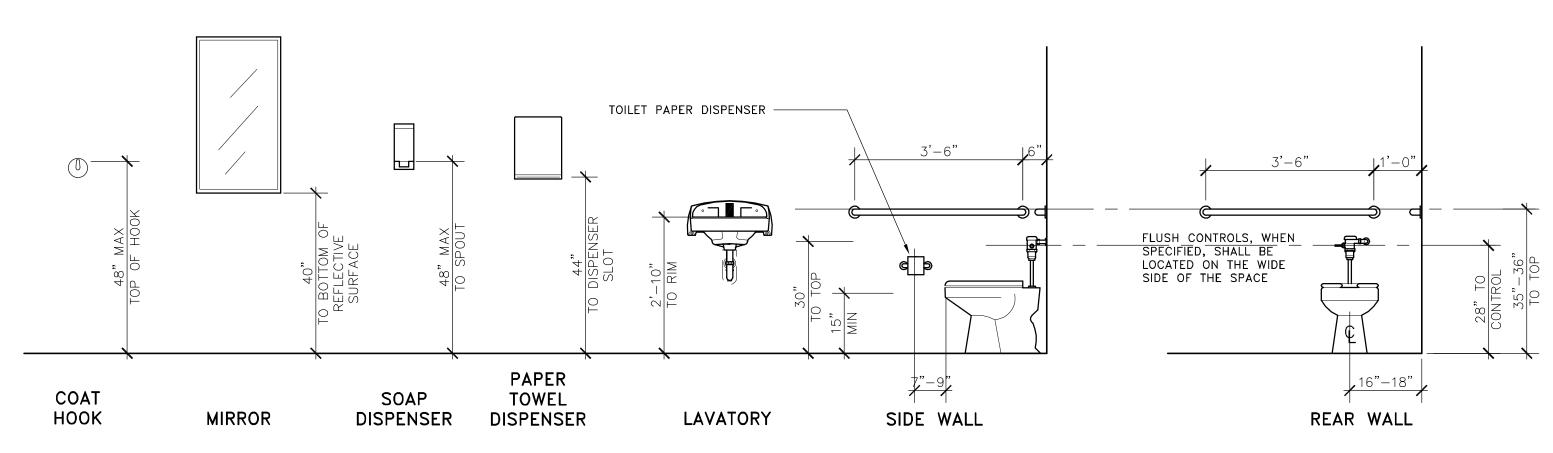
SHEET TITLE

CODE SHEET

BBI Job No. <u>A24-005</u>

Drawn By

Checked By _

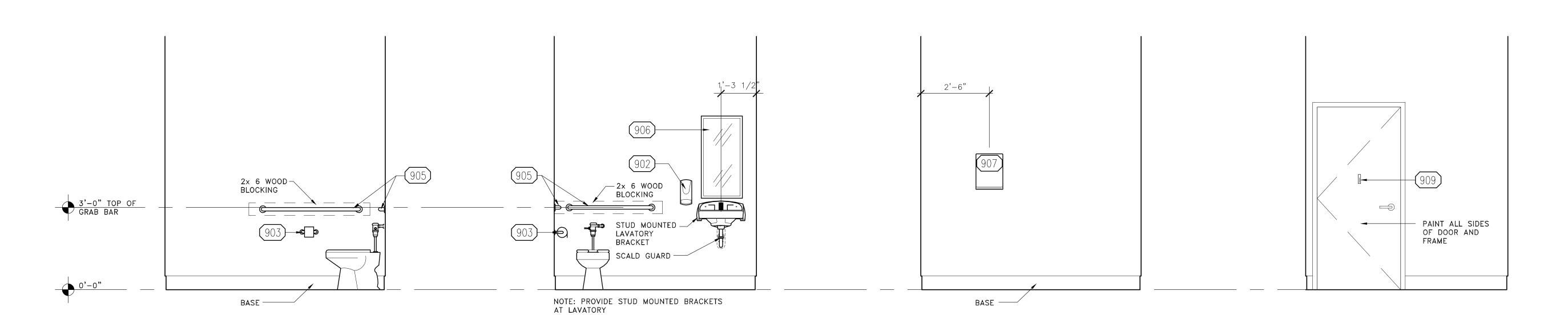


RESTROOM PLAN

WATER CLOSET SIDE WALL

FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

1/2" = 1'-0"



TOILET - REAR WALL

| 7 | ACCESSORIES LEGEND | | | | | | | | | |
|------|------------------------|--------------------|--------------------|-------|--|--|--|--|--|--|
| MARK | DESCRIPTION | FURNISHED BY | INSTALLED BY | NOTES | | | | | | |
| 902 | SOAP DISPENSER | OWNER | GENERAL CONTRACTOR | | | | | | | |
| 903 | TOILET PAPER DISPENSER | OWNER | GENERAL CONTRACTOR | | | | | | | |
| 905 | GRAB BAR | GENERAL CONTRACTOR | GENERAL CONTRACTOR | | | | | | | |
| 906 | MIRROR | GENERAL CONTRACTOR | GENERAL CONTRACTOR | | | | | | | |
| 907 | PAPER TOWEL DISPENSER | GENERAL CONTRACTOR | GENERAL CONTRACTOR | | | | | | | |
| 908 | TRASH RECEPTACLE | OWNER | OWNER | | | | | | | |
| 909 | COAT HOOK | GENERAL CONTRACTOR | GENERAL CONTRACTOR | | | | | | | |

RESTROOM SIGNAGE

1. ADA COMPLIANT PANEL SIGNS WITH RAISED COPY TO BE BY

END WALL1/2" = 1'-0"

- GEMINI INCORPORATED OR APPROVED EQUAL.

 2. SIGNS TO BE ONE PIECE CONSTRUCTION, WITH LETTERS, NUMBERS AND SYMBOLS CONTRASTING WITH BACKGROUND
- 3. EDGE CONDITION TO BE SQUARE CUT, CORNER CONDITION TO BE SQUARE, COLOR TO BE SELECTED BY CONSTRUCTION
- MANAGER FROM MANUFACTURER'S FULL RANGE, RE: 9A6.1. 4. TACTILE CHARACTERS/SYMBOLS TO BE RAISED 1/32" FROM SIGN PLATE FACE
- 5. TEXT SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE 6. LETTERING SHALL BE IN UPPERCASE SANS SERIF
- 7. SIZES OF LETTERS AND NUMBERS TO BE AS FOLLOWS: ROOM NUMBERS; 5/8" HIGH LETTERING FOR ROOM USAGE AND DIRECTIONAL
 - IDENTIFICATION SHALL BE 5/8" HIGH LETTERING FOR RESTROOM IDENTIFICATION SHALL BE 5/8"
- HIGH, CORRESPONDING SYMBOLS SHALL BE 3" HIGH LETTERS AND NUMBERS SHALL BE CENTERED ON SIGN 8. RESTROOM SIGNS SHALL BE 6" X 9"
- 9. SIGNS TO BE LOCATED PER ADA ABA ACCESSIBILITY GUIDELINES USING MANUFACTURER'S STANDARD MOUNTING HARDWARE



DOOR WALL

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SHEET TITLE

RESTROOMS

BBI Job No. <u>A24-005</u>

Drawn By Checked By ____bb_

CATWALK AND STAIR COLUMN

WINDOW 2840 SINGLE HUNG VINYL WINDOW

3 PROJECT NOTES

- 1. PAINT ALL INTERIOR WALLS, DOORS, TRIM, PANELS ETC.
- 2. PROVIDE (3) 10 POUND ABC FIRE EXTINGUISHERS
- 3. PROVIDE 1/4" BC EXTERIOR PLYWOOD DOOR COVERS FOR EACH INTERIOR DOOR. COVERS AND DOOR FRAMES SHALL BE EQUIPPED WITH 6 MAGNETS (3 ON EACH SIDE) THAT WILL HOLD THE PANELS IN PLACE. PROVIDE HOLE(S) IN COVER FOR DOOR HARDWARE. INCLUDE MATCHING WALL MOUNTED MAGNETS ATTACHED TO WALL ADJACENT TO THE DOOR TO STORE THE COVER WHEN NOT IN PLACE OVER THE DOOR. PAINT ALL SIDES.
- PROVIDE FULL SET OF REPLACEMENT WINDOWS (NOT INSTALLED). DELIVER TO JOBSITE AND STORE AS DIRECTED.
- 5. PROVIDE REPLACEMENT PREHUNG DOORS AS FOLLOWS. DELIVER TO THE JOBSITE AND STORE AS DIRECTED.

 (1) 3'-0"x 6'-8"
- (15) 2'-8"x 6'-8" - (8) 2'-6"x 6'-8" - (5) 2'-4"x 6'-8"
- (1) 2'-0"x 6'-8"
 6. AT EACH HALL PROVIDE ONE MOVABLE "PLUG". PLUG SHALL BE THE FULL WIDTH OF THE HALL. CONSTRUCTED OF 2x 4 PERIMETER FRAME (WITH CORNER BLOCKING) AND 1/4" BC EXTERIOR PLYWOOD

FACE AND (2) 6-1/2" ZINC-PLATED HEAVY-DUTY DOOR PULLS.

4 FINISH NOTES

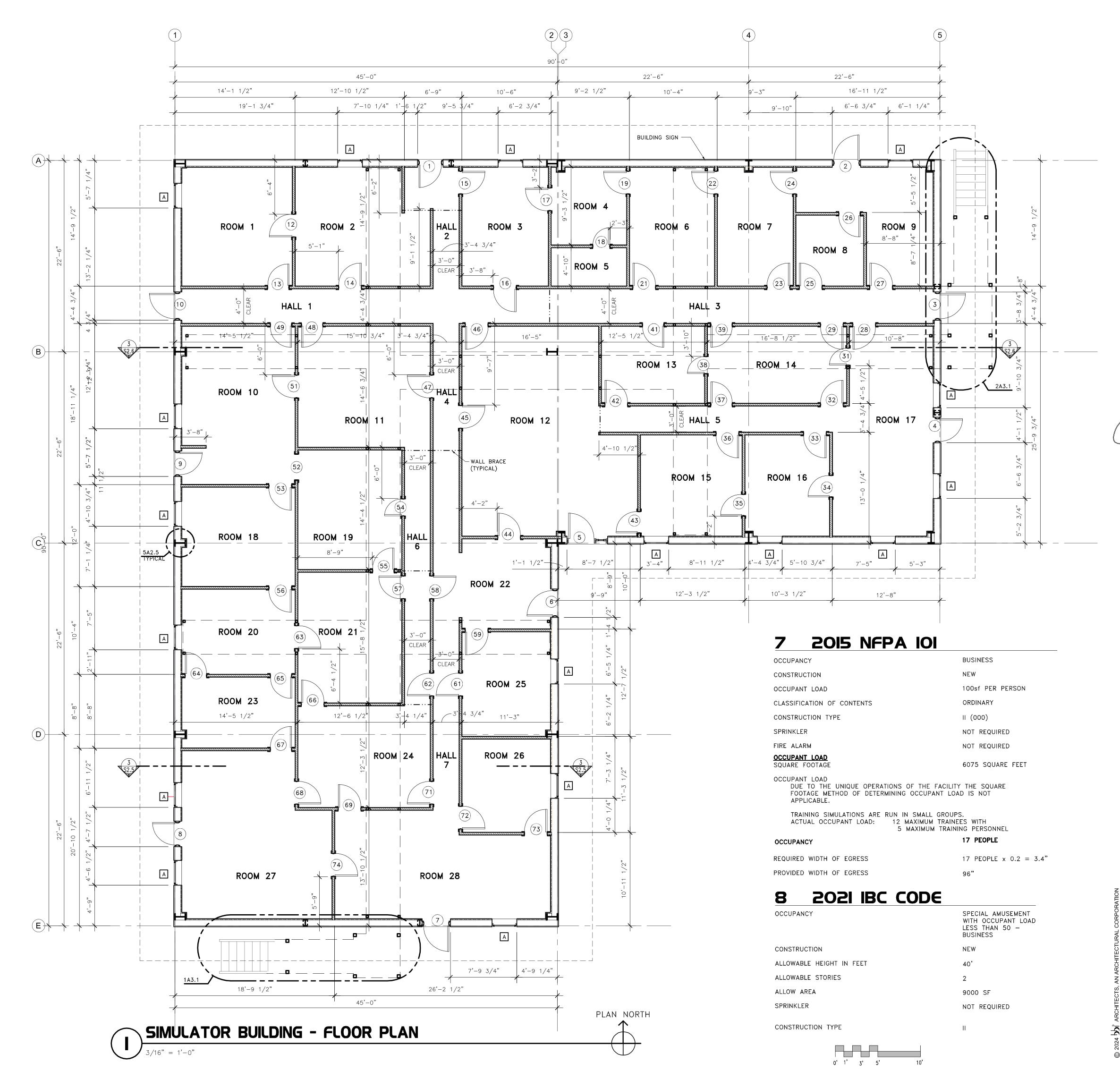
- 1. THE PAINTING CONTRACTOR SHALL PAINT THE DOOR FRAMES USING A SMOOTH (FOAM) ROLLER COAT FOR THE FIRST COAT AND A BRUSH FOR THE FINISH COAT.
- FULLY PRIME AND PAINT ALL EXTERIOR FERROUS METALS WITH ONE COAT OF PRIMER FOLLOWED BY TWO COATS OF PAINT UNLESS NOTED OTHERWISE.
- PROVIDE 5/8" PAPERLESS GYPSUM BOARD TYPICALLY. UNLESS NOTED OTHERWISE WITH LEVEL 3 FINISH.
- 4. ALL GYPSUM BOARD TO BE FASTENED WITH SCREWS,
- 5. PROVIDE ORANGE PEEL FINISH ON ALL EXPOSED GYPSUM BOARD WALLS
- 6. WALLS AND DOORS SHALL BE PAINTED WITH EXTERIOR GRADE PAINTS
- 7. PROVIDE ORANGE PEEL FINISH ON ALL EXPOSED GYPSUM BOARD WALLS
- 8. PAINT LUSTER:
 8.1. PROVIDE SATIN FINISH ON WALLS,
 8.2. FLAT ON CEILINGS AND
- 8.3. SEMI-GLOSS ON DOORS, DOOR FRAMES, TRIM & MILLWORK
- 9. PROVIDE VINYL CORNER BEADS, J MOLD AND OTHER GYPSUM BOARD ACCESSORIES
- 10. LIGHTING, NORMAL SAFETY, "WET PAINT" SIGNS, ETC. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OSHA REQUIREMENTS WHILE WORK IS IN PROGRESS.
- 11. THE WORK WILL CONSIST OF ALL PREPARATION, PAINTING, FINISHING WORK, CLEAN UP AND RELATED ITEMS NECESSARY TO COMPLETE WORK DESCRIBED IN THESE SPECIFICATIONS.
- 12. KEEP SURFACES, DUST, DIRT AND DEBRIS FREE BEFORE AND DURING PAINTING.

5 CODE NOTES

- 1. THIS BUILDING IS DESIGNED TO SIMULATED REAL WORLD SCENARIOS FOR POLICE TRAINING. THE SPACES ARE DESIGNED TO SIMULATE OFTEN ENCOUNTERED PHYSICAL ENVIRONMENTS. THE OCCUPANTS ARE UNDER THE DIRECT SUPERVISION OF TRAINING PERSONNEL.
- 2. TRAINING SIMULATIONS WILL BE IN GROUPS OF LESS THAN 12 PEOPLE
- 3. RESTROOMS ARE PROVIDED IN THE CLASSROOM BUILDING AND MAIN BUILDING
- 4. THERE IS 37' CLEAR SPACE BETWEEN BUILDINGS. ASSUMING THE COMMON PROPERTY LINE WILL BE IN THE MIDDLE, THIS WOULD PROVIDE 18'-6" FROM BUILDING TO PROPERTY LINE

5 SQUARE FOOTAGE

TOTAL 6075



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REVISIONS: **ADDENDUM No. 1 10/ 21/ 2024**

SEAL

REG. No. 5 CITY

REG. No. 5 CITY

REG. NO. 6 CITY

ON ROUGE POLICE DEPARTME
TRAINING FACILITY

SHEET TITLE

FLOOR PLAN

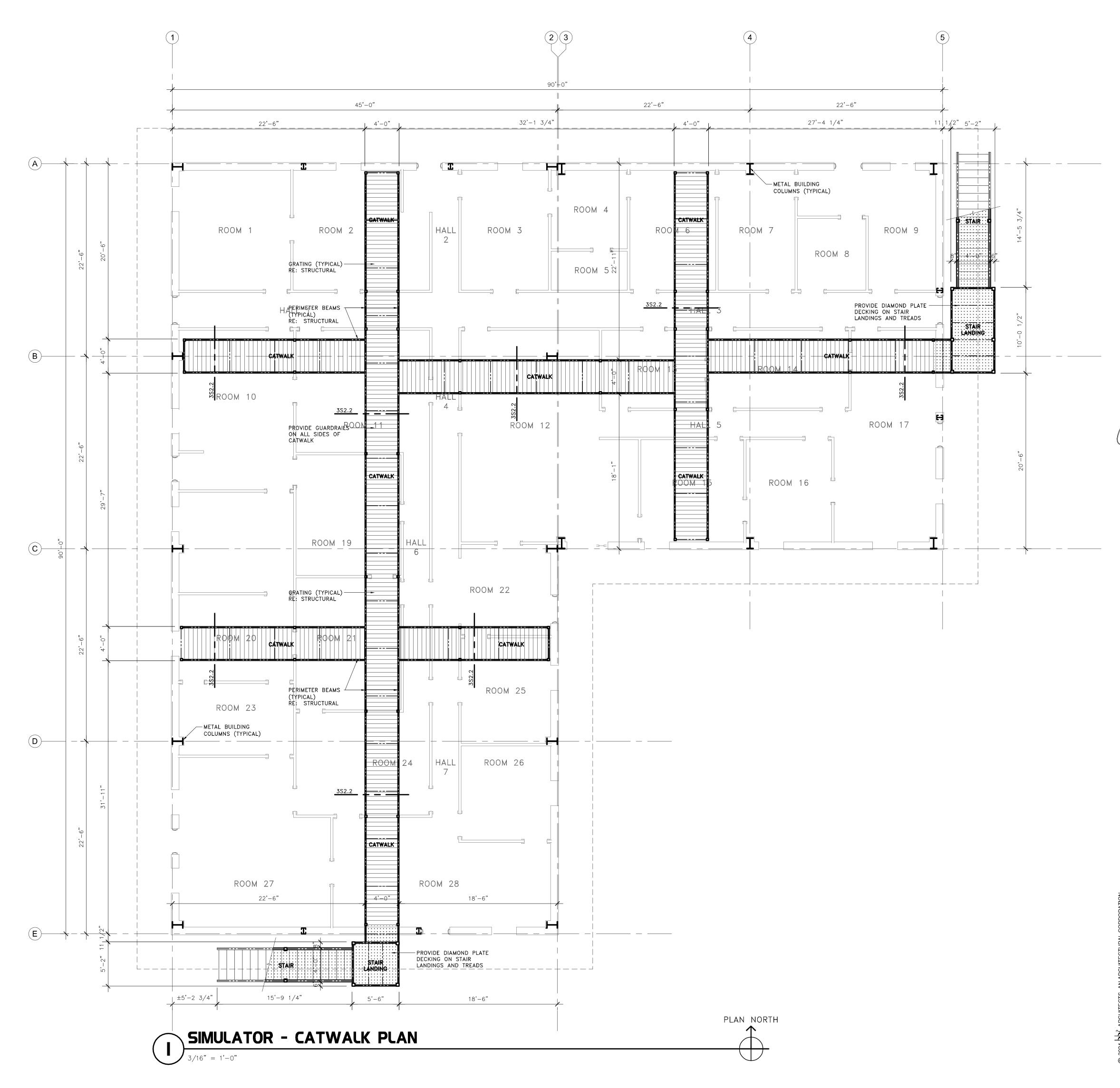
BBI Job No. <u>A24-005</u>

Date 10/1/2024

Drawn By se

Checked By bb

SHEET



FRAMING NOTES

DO NOT SCALE DRAWINGS
 DIMENSIONS ARE TO THE FACE OF STEEL UNLESS NOTED OTHERWISE

DRAWINGS.

4. ALL ELEVATIONS ARE FROM THE TOP OF FINISH SLAB

3. CONSTRUCTION DOCUMENTS SHALL NOT BE USED AS SHOP

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REVISIONS:

REVISIONS:

ADDENDUM No. 1

10/ 21/ 2024

SFAI

OUGE POLICE DEPARTMENTRAINING FACILITY

SHEET TITLE

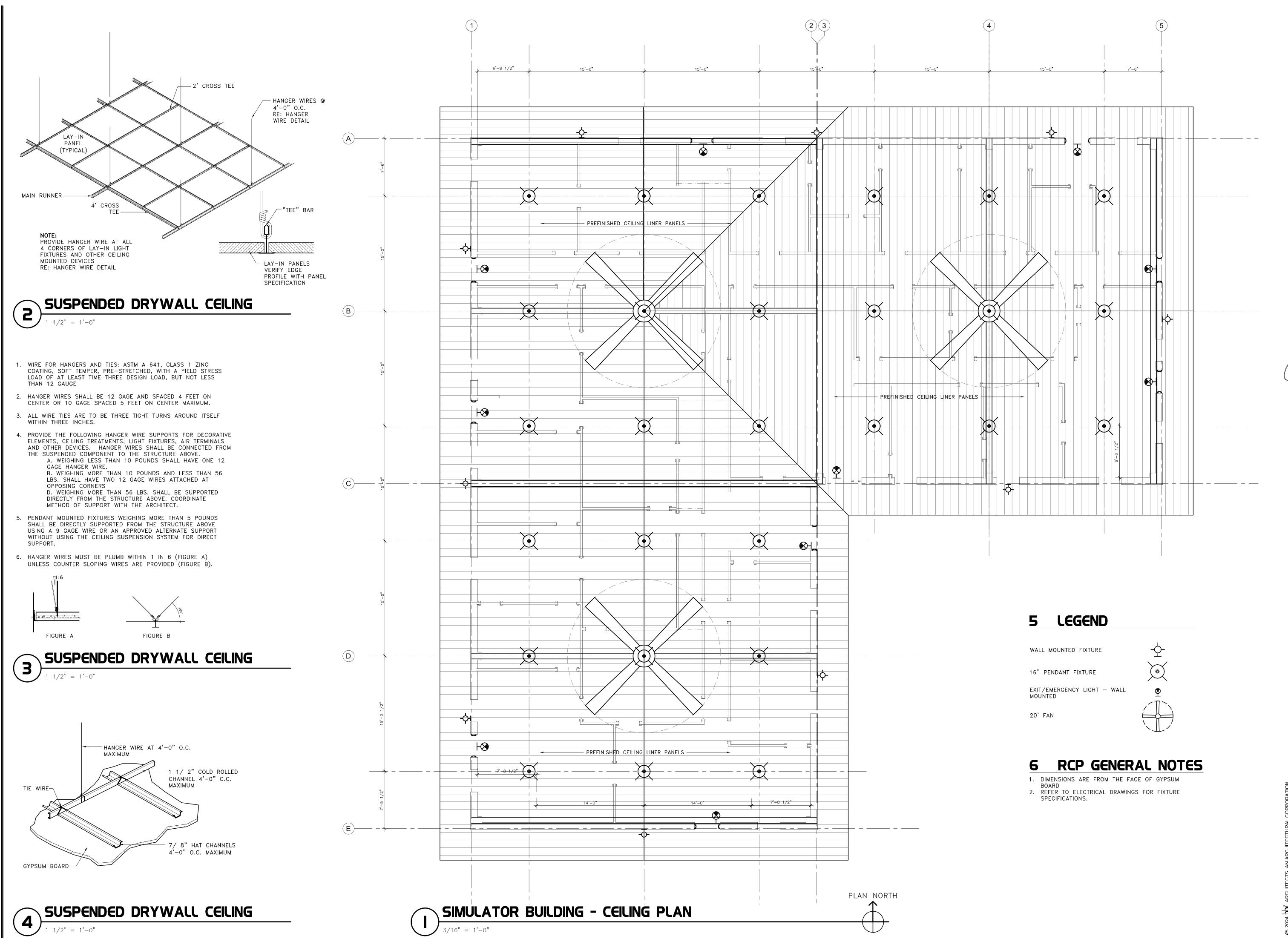
CATWALK PLAN

BBI Job No. <u>A24-005</u>
Date 1<u>0/1/2024</u>

Drawn By se

Checked By bb

SHEET



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ADDENDUM No. 1

10/ 21/ 2024

SEAL

REG. No. 5

PEG. No. 5

E DEPARTMENT
ACILITY
ACHARY, LA 70791

ATON ROUGE POLICE DEPAR
TRAINING FACILITY
999 WEST IRENE ROAD ZACHARY LA

SHEET TITLE

REFLECTED CEILING PLAN

BBI Job No. <u>A24-005</u>
Date 10/1/2024

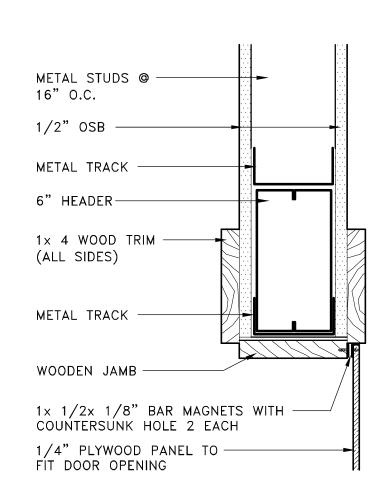
Drawn By _____**se**

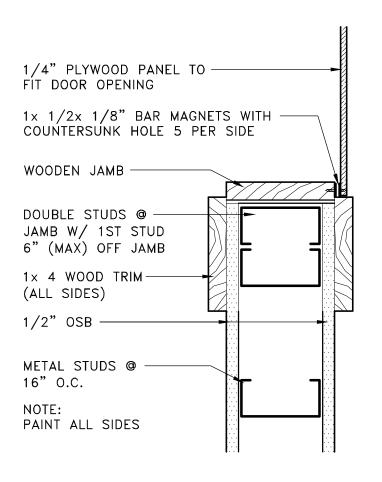
Checked By _____bb

SHEET

| | I DOOR SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|-------------|-----------------|-------------------------|------|-----------|------------------|------------------|-------|--------|-----------|--------------------|------|---------------|----------|------|-----------|------------------|------------------|--------|-------|-----------|---------------|
| NUMBER | | DOOR | | | FRAI | ME | | DETAIL | S | REMARKS | 1BER | DOOR | | | FRAN | ΛE | | DETAIL | S | REMARKS | |
| | SIZE | MATERIAL | TYPE | HWD | MATERIAL | SIZE | HEAD | JAMB | THRESHOLD | KEMAKKS | N P | SIZE | MATERIAL | TYPE | HWD | MATERIAL | SIZE | HEAD | JAMB | THRESHOLD | KEMAKKS |
| 1 | 2'-8" x 6'-8" | HOLLOW METAL | 1 | HWD SET | 1 HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 41) | 3'-0" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 2 | 3'-0" x 6'-8" | HOLLOW METAL | 2 | HWD SET 2 | HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 42 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 3 | 3'-0" × 7'-0" | HOLLOW METAL | 2 | HWD SET | 1 HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 43 | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 4 | 2'-8" x 6'- 8"' | HOLLOW METAL | 1 | HWD SET | 1 HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 44 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 5 | 3'-0" x 6'-8" | WOOD WITH HALF GLASS | 3 | HWD SET 3 | 3 WOOD | | | | | | 45) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 6 | 3-0" X 7'-0" | SOLID CORE WOOD | 4 | HWD SET 4 | 4 WOOD | | | | | NOT USED | 46 | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | NOT USED |
| 7 | 3'-0" × 7'-0" | HOLLOW METAL | 4 | HWD SET 2 | HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 47) | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 8 | 2'-8" x 6'-8" | HOLLOW METAL | 1 | HWD SET 4 | HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 48 | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 9 | 2'-8" x 6'-8" | HOLLOW METAL | 1 | HWD SET 4 | HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 49 | 2'-4" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 10 | 3'-0" x 7'-0" | HOLLOW METAL | 4 | HWD SET | 1 HOLLOW METAL | 6 3/4" | 7A4.1 | 8A4.1 | 9A4.1 | | 50 | NOT USED | | | | | | | | | |
| 11) | NOT USED | | | | | | | | | | (51) | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 12 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET ! | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 52 | 3'-0" x 6'-8" | | | | | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | CASED OPENING |
| 13 | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 53 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 14) | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET S | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 54 | 2'-0" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 15 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 55 | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 16) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 56 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 17) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 57 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 18 | 2'-0" x 6'-8" | MASONITE | 4 | HWD SET | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 58 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 19 | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 59 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 20 | NOT USED | | | | | | | | | | 60 | NOT USED | | | | | | | | | |
| <u>(21)</u> | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | NOT USED | 61) | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | NOT USED |
| 22 | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 62 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 23 | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 63 | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 24) | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 64 | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 25) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 65 | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 26) | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET S | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 66) | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 27) | 3'-0" × 6'-8" | MASONITE | 4 | HWD SET S | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 67 | 2'-0" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 28 | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET S | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 68 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 29 | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 69 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 30 | NOT USED | | | | | | | | | NOT USED | 70 | NOT USED | | | | | | | | | NOT USED |
| 31) | 2'-4" × 6'-8" | MASONITE | 4 | HWD SET S | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 71 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 32 | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET 5 | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 72 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 33) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET ! | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 73 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 34) | 2'-6" × 6'-8" | MASONITE | 4 | HWD SET ! | 11005 | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | 74 | 2'-8" × 6'-8" | MASONITE | 4 | HWD SET 5 | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | |
| 35) | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET ! | WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | | | | | | | | | | | |
| 36) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET ! | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | | | | | | | | | | | |
| 37) | 2'-8" x 6'-8" | MASONITE | 4 | HWD SET ! | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | DOUBLE ACTING DOOR | | | | | | | | | | | |
| 38) | 2'-0" x 6'-8" | MASONITE | 4 | HWD SET ! | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | NOT USED | | | | | | | | | | | |
| 39 | 2'-6" x 6'-8" | MASONITE | 4 | HWD SET S | PRE HUNG WOOD | 4 3/4" THROAT | 3A2.5 | 4A2.5 | | | | | | | | | | | | | |
| 40 | NOT USED | | | | | | | | | | | | | | | | | | | | |

| 2 | H | ARDWARE SCHEDULE |
|-----|-------|---------------------------------------|
| SET | QTY. | ITEM |
| | 1 | HINGES (3 PER DOOR) |
| | 1 | DOOR CLOSER WITH HOLD OPEN |
| 1 | 1 | DOUBLE KEYED CYLINDER DEADBOLT |
| ' | 1 | LOCKSET (ENTRY FUNCTION) |
| | 1 SET | MUTES |
| | | |
| | 1 | HINGES (3 PER DOOR) |
| | 1 | DOOR CLOSER WITH HOLD OPEN |
| 2 | 1 | DOUBLE KEYED CYLINDER DEADBOLT |
| | 1 | EXIT DEVICE WITH KEYED LEVER ENTRY |
| | 1 SET | MUTES |
| | | |
| | 1 | HINGES (3 PER DOOR) |
| 3 | 1 | RESIDENTIAL FRONT DOOR LOCKSET |
| | | |
| | 1 | HINGES (3 PER DOOR) |
| 4 | 1 | RESIDENTIAL ENTRY LOCKSET |
| | | |
| | 1 | HINGES (3 PER DOOR) |
| 5 | 1 | LOCKSET (DOOR KNOB, BEDROOM FUNCTION) |
| | | |











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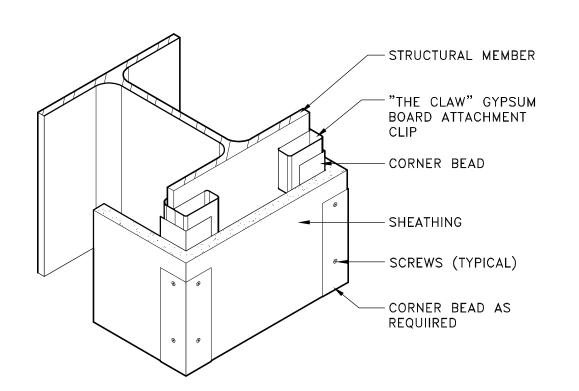
10/ 21/ 2024

SHEET TITLE

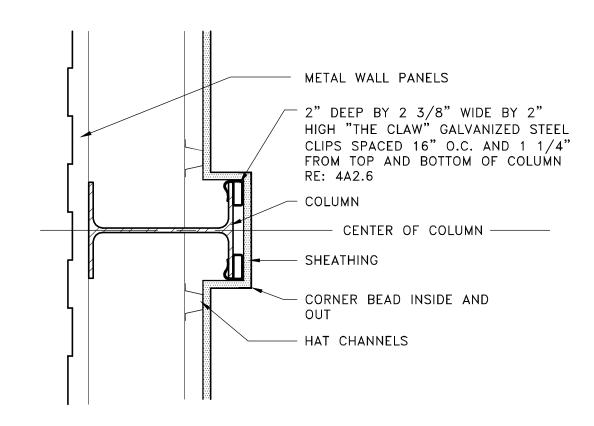
WALL SCHEDULE

BBI Job No. <u>A24-005</u> 10/1/2024

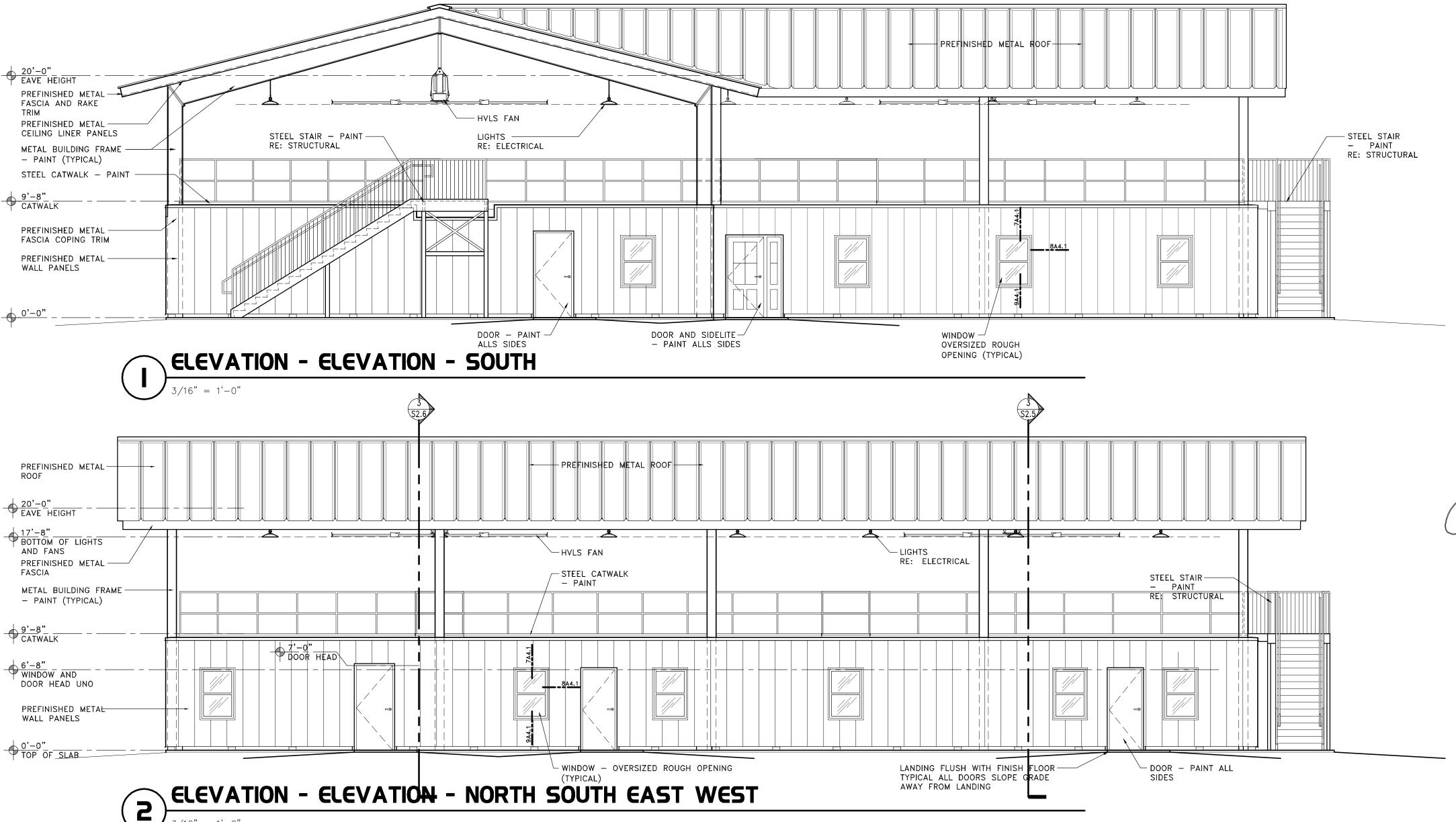
Drawn By ___**se**___ Checked By ____bb

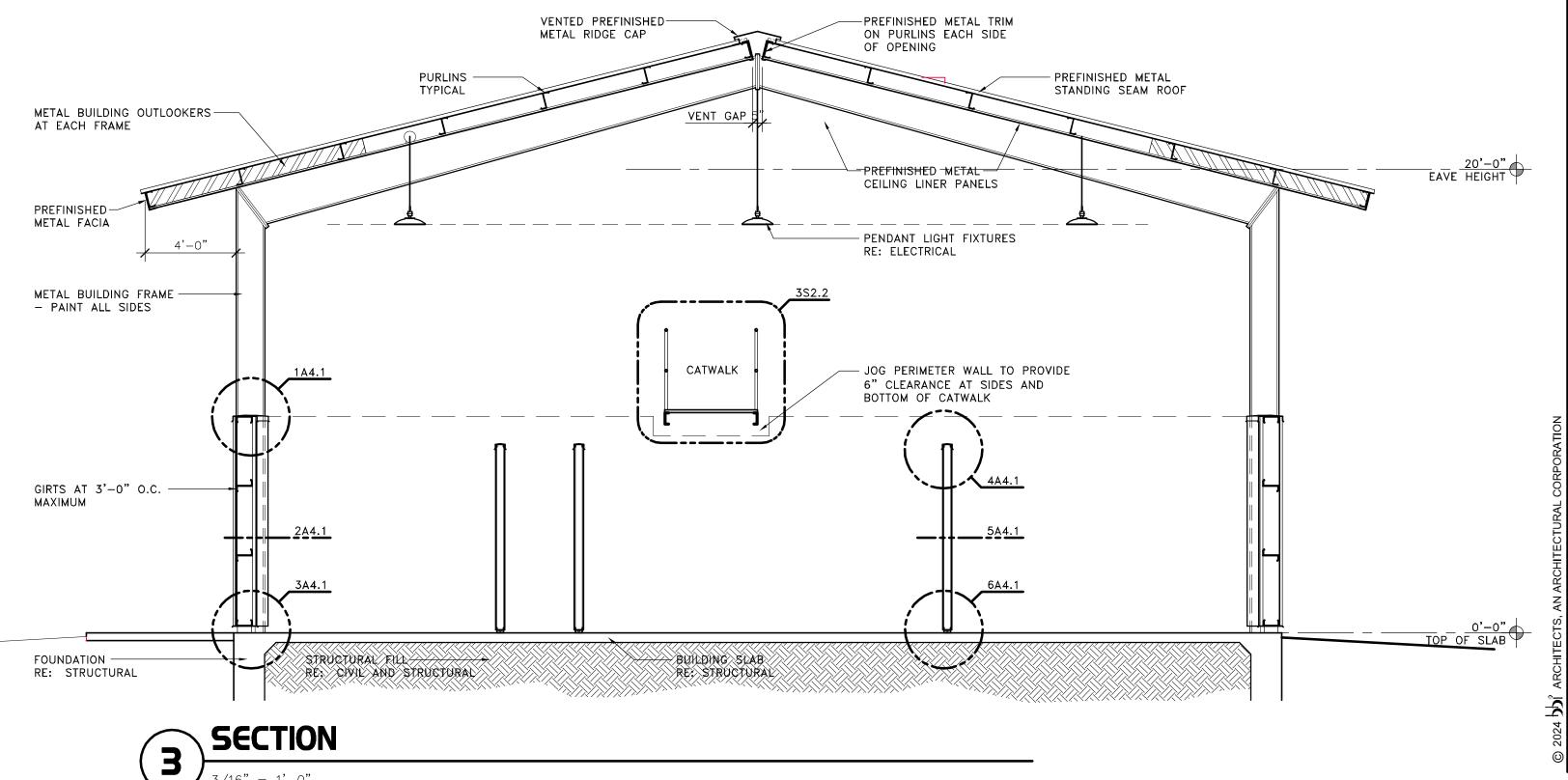


TYPICAL COLUMN WRAP WITH 3" = 1'-0" SNAP-ON CLIPS



S COLUMN DETAIL





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HARY, LA 70791

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999 WEST IRENE ROAD, ZACHARY, LA

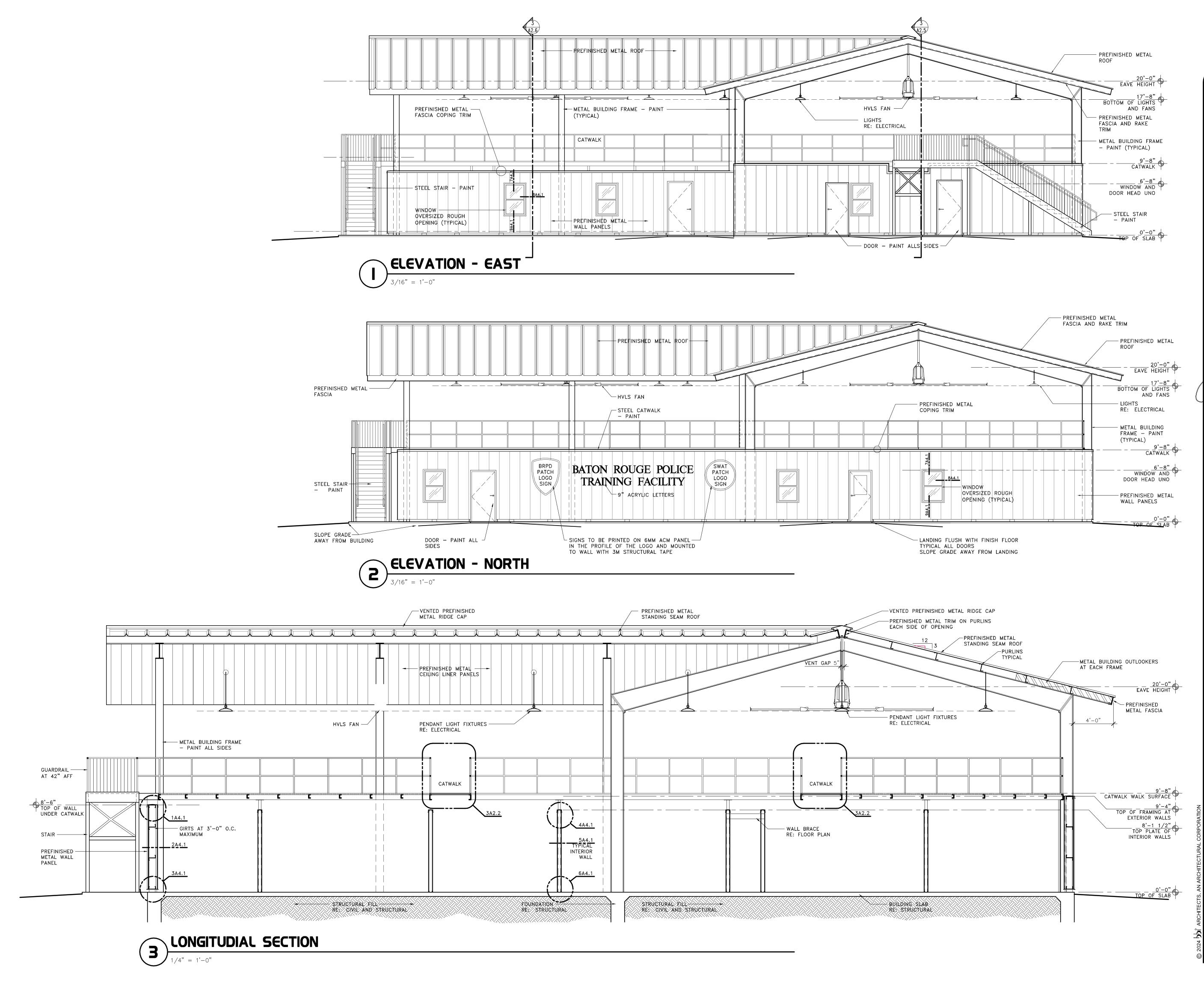
SHEET TITLE

ELEVATIONS SECTION DETAILS

BBI Job No. <u>A24-005</u>
Date 1<u>0/1/2024</u>

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REG. No. 55 CHEAL

RED ARCHAELE

TON ROUGE POLICE DEPARTMENT
TRAINING FACILITY
999 WEST IRENE ROAD, ZACHARY, LA 70791

SHEET TITLE

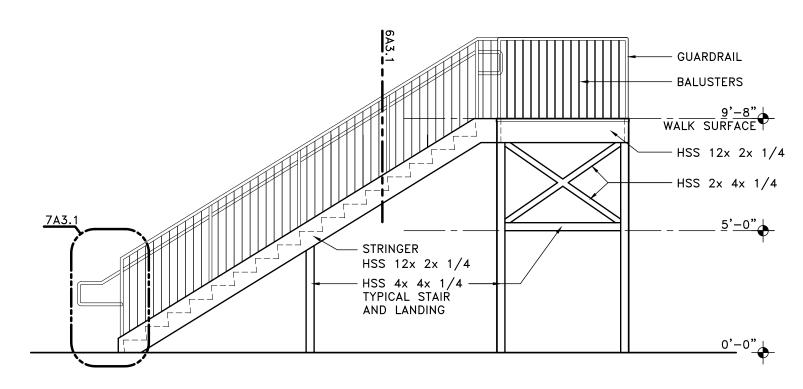
BBI Job No. <u>A24-005</u>
Date 10/1/2024

Drawn By se
Checked By bb

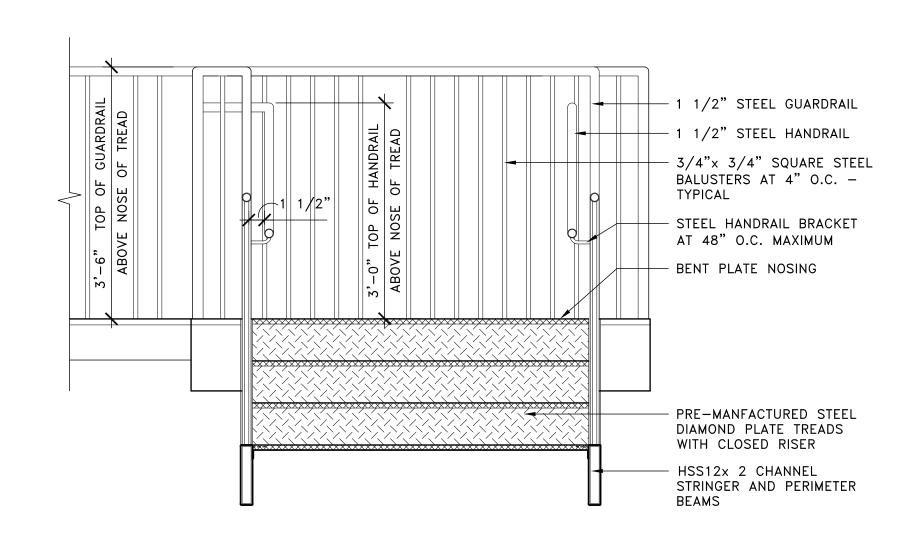
SHEET

SOUTH STAIR

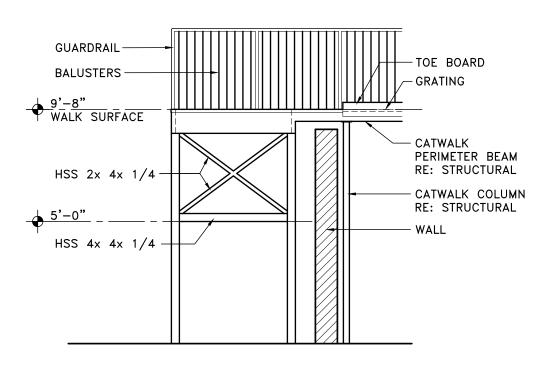
1/4" = 1'-0"



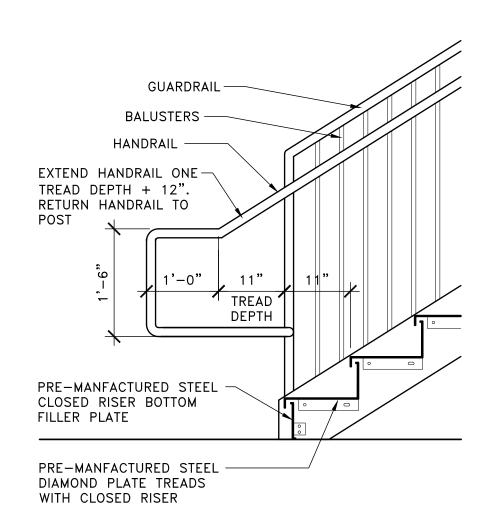


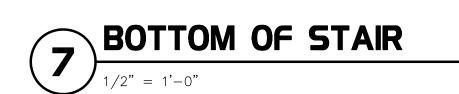












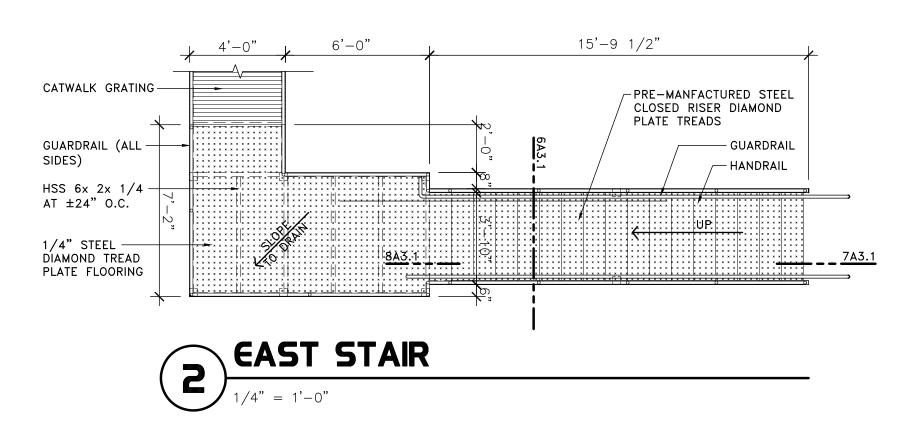
9 STAIR ACCESSIBILITY NOTES

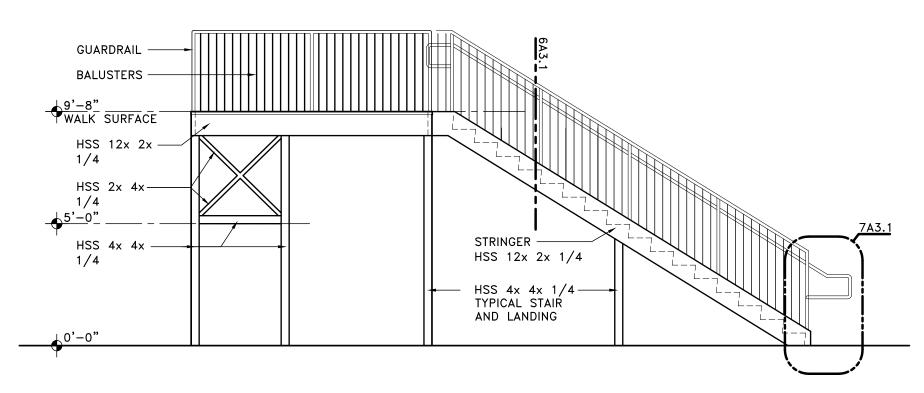
- 1. TOP GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS AND RAMP SURFACES. HANDRAILS SHALL BE A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS AND RAMP SURFACES.
- 2. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE $2\!-\!1/4$ INCHES MINIMUM.
- 3. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.

IO STAIR NOTES

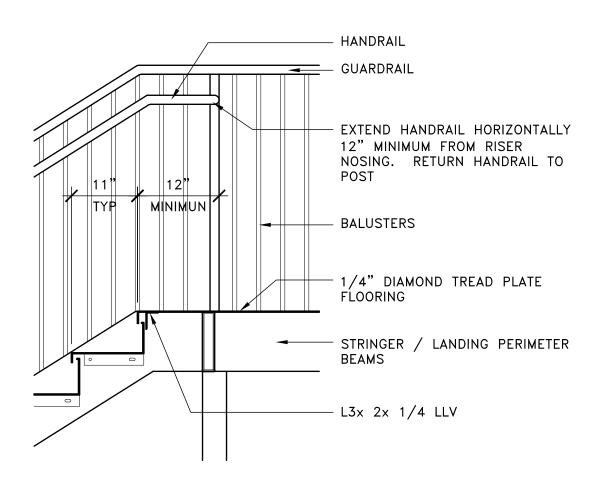
 PROVIDE 12" DIAMETER, 4" DEEP REINFORCED CONCRETE FOUNDATIONS UNDER EACH COLUMN.

- 2. SECURE COLUMNS TO FOUNDATION WITH MINIMUM OF 4-5/8" ANCHORS EMBEDDED INTO FOUNDATION. COORDINATE LOCATIONS WITH SHOP DRAWINGS.
- 3. GUARDS ARE REQUIRED ON ALL CHANGES IN ELEVATION OVER 30 INCHES ABOVE GRADE. A GUARD SHALL BE 42 INCHES ABOVE THE FINISHED STAIR NOSING. OPEN GUARDS REQUIRE INTERMEDIATE RAILS TO PREVENT PASSAGE OF A 4 INCH DIAMETER BALL THROUGH OPEN SPACES.

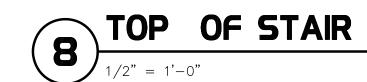








NOTE:
TOP OF HANDRAIL SHALL BE MOUNTED 36" ABOVE STAIR NOSING
TOP OF GUARDRAIL SHALL BE MOUNTED 42" ABOVE STAIR NOSING



II HAND & GUARDRAIL NOTES

- HANDRAILS SHOULD BE STURDY AND SHALL NOT ROTATE WITHIN THEIR FITTINGS. THE GRIPPING SURFACE FOR ALL HANDRAILS SHOULD BE CONTINUOUS FOR THE ENTIRE RUN OF THE STAIR, INCLUDING THE LENGTH OF ANY INTERMEDIATE LANDINGS.
- 2. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH.
- 3. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
- 4. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 6-1/4 INCHES MAXIMUM AND A CROSS-SECTION DIMENSION OF 2-1/4 INCHES
- 5. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
- 6. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING LANDING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT



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SHEET TITLE

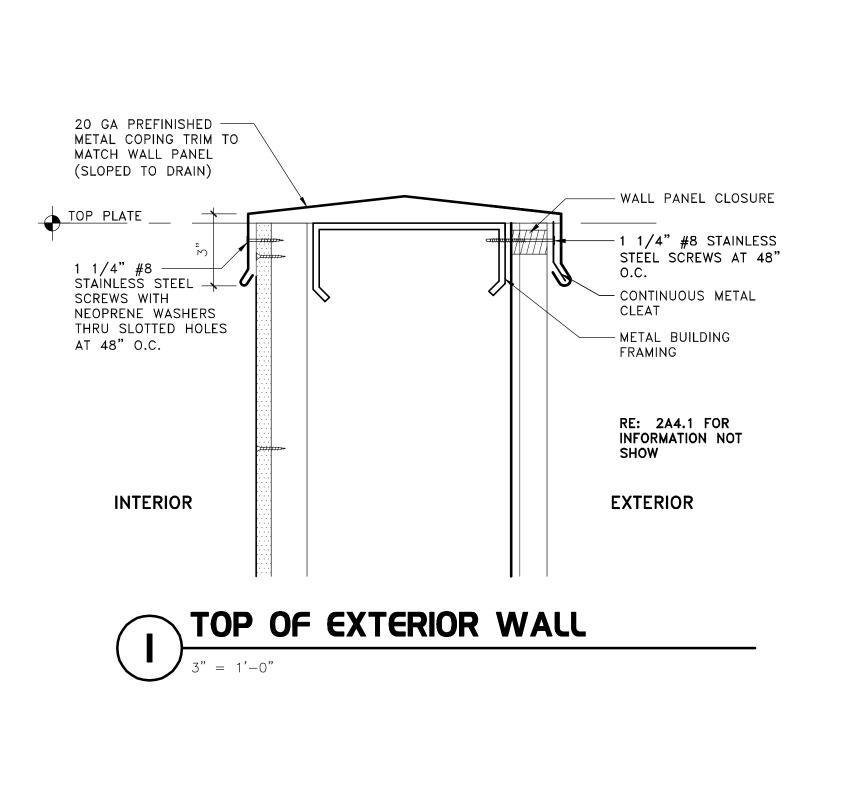
BBI Job No. <u>A24-005</u>

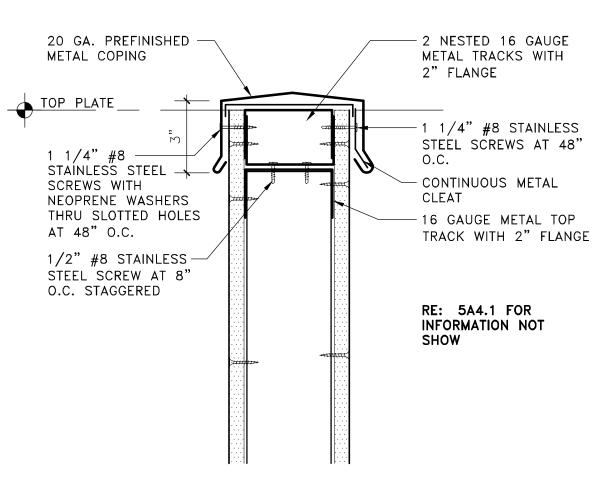
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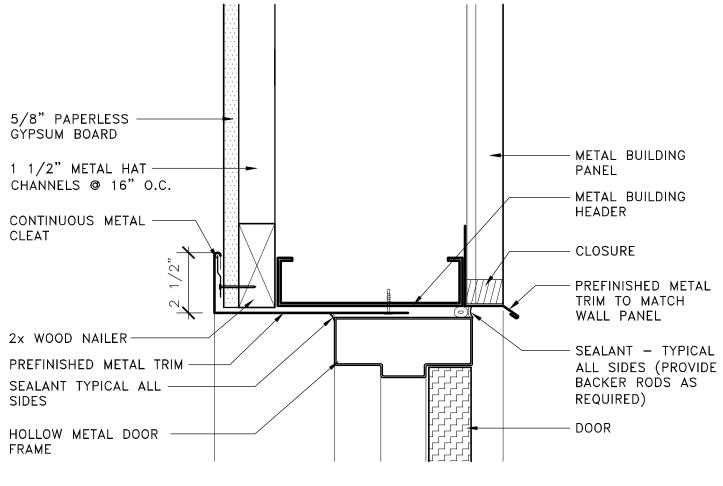
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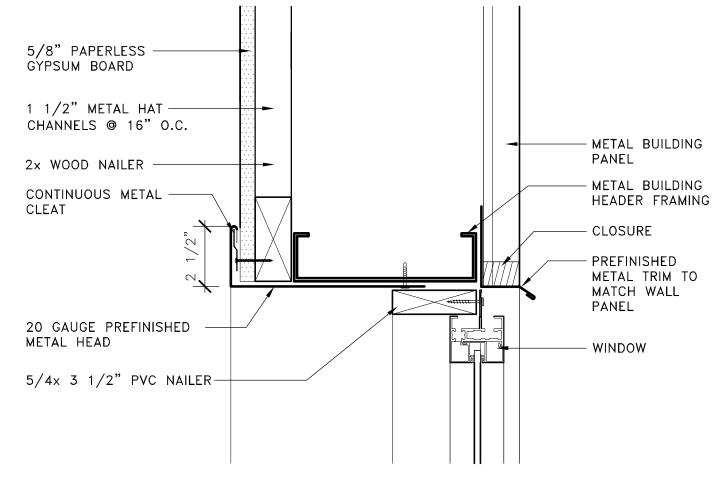
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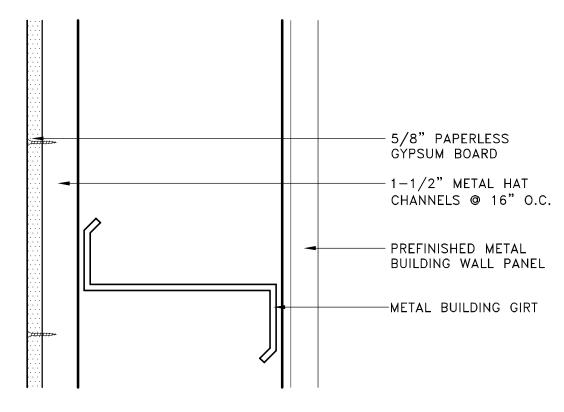


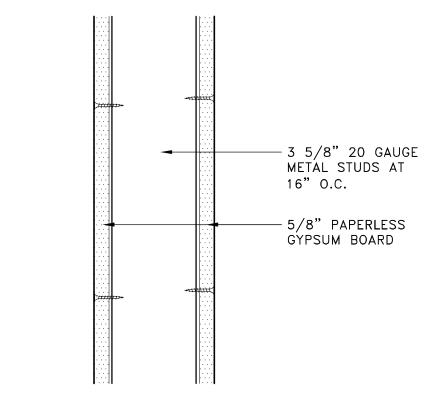


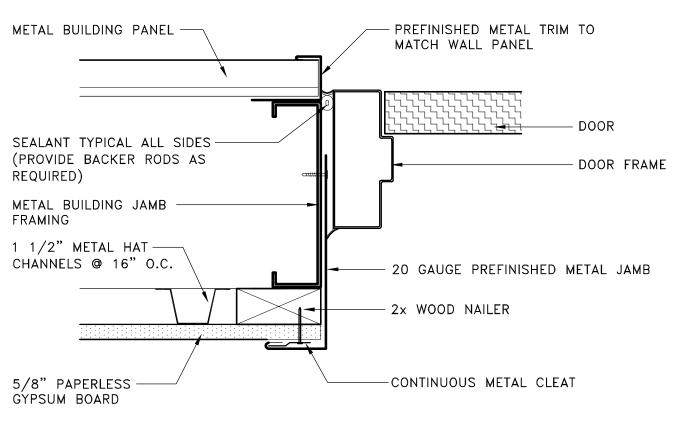


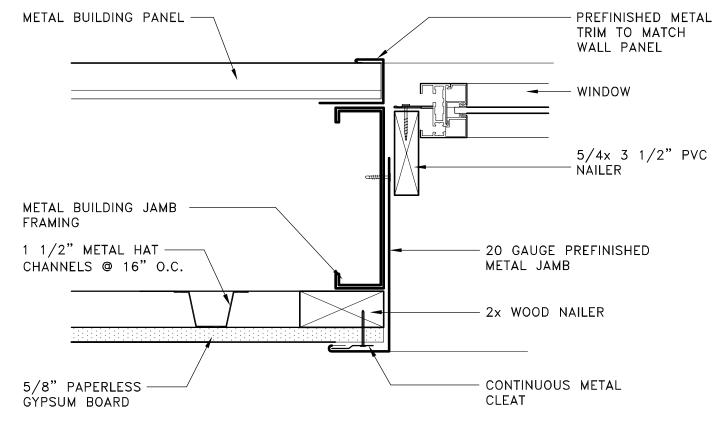








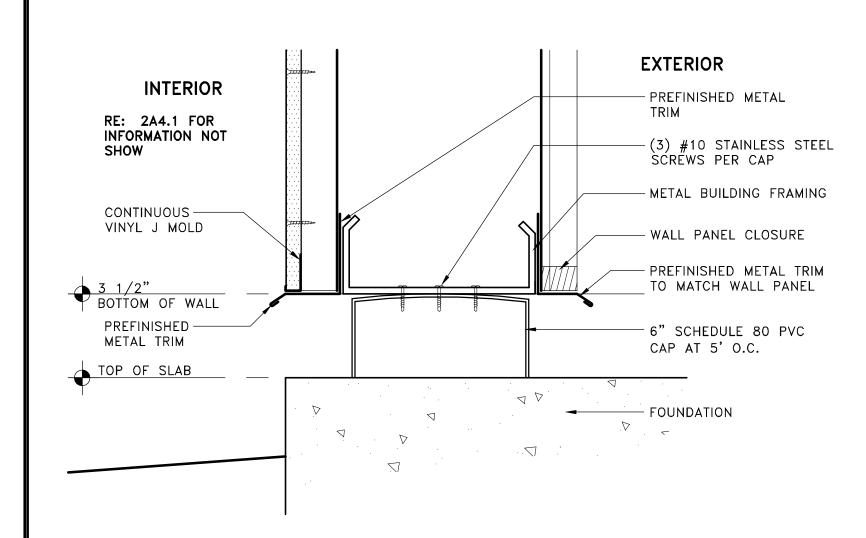


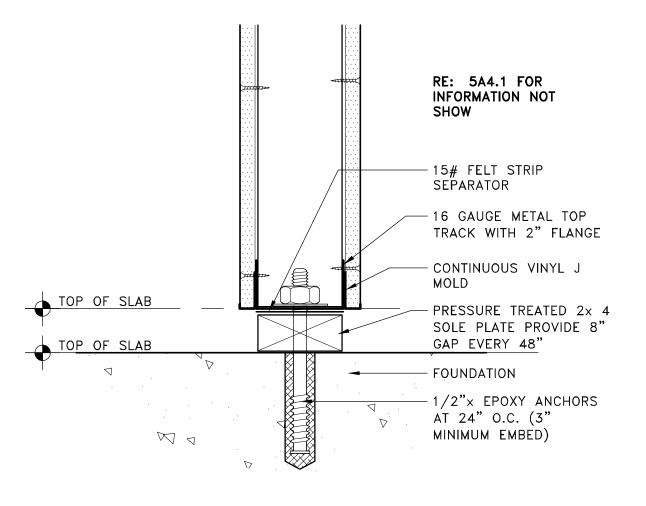


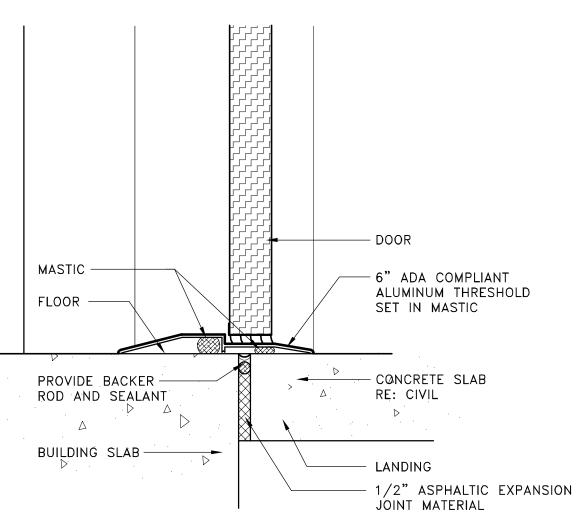


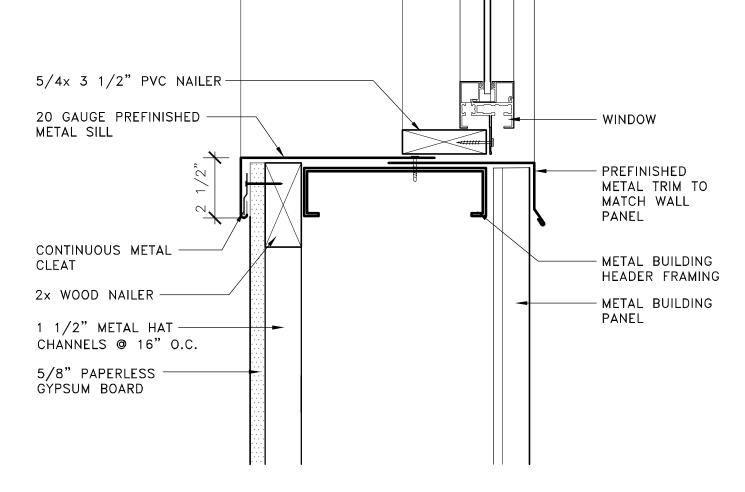














EXTERIOR WALL







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SHEET TITLE

SIMULATOR DETAILS

BBI Job No. <u>A24-005</u>
Date 10/1/2024

Drawn By AP

Checked By bb

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A 4.1

DESIGN LOADS

2018 NORTH CAROLINA BUILDING CODE

II BUILDING RISK CATEGORY

FLOOR LIVE LOAD: SECTION 1607

100 PSF SLAB ON GRADE

ROOF LIVE LOAD: TABLE 1607.1

ROOF SNOW LOAD: SECTION 1608

0 PSF Pf FLAT ROOF SNOW LOAD

1.0 Ce SNOW EXPOSURE FACTOR

1.0 Is SNOW IMPORTANCE FACTOR
1.0 Ct THERMAL FACTOR
WIND LOAD: SECTION 1609 ASCE 7-16

120 MPH V WIND SPEED
1.0 I WIND IMPORTANCE FACTOR
B WIND EXPOSURE CATEGORY
II RISK CATEGORY

B WIND EXPOSURE CATEGORY
II RISK CATEGORY
0.18 GCpi INTERNAL PRESSURE COEFFICIENT
EARTHQUAKE LOAD: SECTION 1613

SEISMIC USE GROUP

SEISMIC IMPORTANCE FACTOR
SITE CLASS
SEISMIC DESIGN CATEGORY

SS SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION
SS SECOND PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION
SOLUTION SECONDAL RESPONSE ACCELERATION
SECONDAL PERIOD SPECTRAL RESPONSE ACCELERATION

0.094 Sds SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT
0.091 Sd1 SECOND PERIOD SPECTRAL RESPONSE COEFFICIENT
SEISMIC AND WIND FORCE RESISTING SYSTEM

TRANSVERSE MOMENT FRAME
LONGITUDIAL CONCENTRICALLY BRACED

DESIGN BASE SHEAR — SEISMIC
3.7.3k TRANSVERSE

3.82

0.031 Cs SEISMIC RESPONSE COEFFICIENT
3 R RESPONSE MODIFICATION FACTOR

LONGITUDIAL

2 DESIGN NOTES

- 1. BUILDING STRUCTURE HAS BEEN DESIGNED TO THE FOLLOWING BUILDING CODES: 2021 INTERNATIONAL BUILDING CODE
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE NATION, STATE AND LOCAL BUILDING CODES AND REGULATIONS
- 3. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS
- 4. COORDINATED STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS
- 5. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS
- 6. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE PLYWOOD DECK ATTACHED TO THE WOOD FRAMING, AND THE CONCRETE FLOORS PLACED AND HAVE ATTAINED 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.)
 AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND
 ELECTRICAL DRAWINGS.

FOUNDATION DESIGN

- 1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT FOR PROVIDED BY THE OWNER.
- 2. THE BUILDING PAD SHALL BE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT FOR THE FOUNDATION TYPE SHOWN IN THESE CONSTRUCTION DOCUMENTS
- THE FOUNDATION IS DESIGNED BASE ON THE FOLLOWING ASSUMPTIONS. IF THESE
 ASSUMPTIONS APPEAR TO BE INCONSISTENT WITH SITE CONDITIONS CONTACT THE
 OWNERS REPRESENTATIVE IMMEDIATELY
- 3.1. A GEOTECHNICAL ENGINEER WAS/IS EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS.
 3.2. SOIL CONDITIONS APPEAR TO MATCH CONDITIONS OUTLINED IN THE GEOTECHNICAL REPORT
- 3.3. SOIL CONDITIONS ACROSS THE BUILDING PAD ARE CONSISTENT AND IN ACCORDANCE WITH THE INFORMATION SHOWN IN THE GEOTECHNICAL REPORT
- 5. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF

4. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF

- 6. LIGHT POLE FOOTINGS ARE DESIGNED BASED ON A MINIMUM OF 150 PSF/FT SOIL ACTIVE
- 7. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS
- 8. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTABLE TOLERANCES FOR THE TYPE OF CONSTRUCTION USED
- 9. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS
- 10. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS

4 CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318-05).
- 2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).
- 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH WIRES CONFORMING TO ASTM A82.
- 4. THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE: 3000 PSI ALL CONCRETE (SEE CIVIL DRAWINGS FOR SITE CONCRETE STRENGTH REQUIREMENTS).
- 5. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318–05, UNLESS NOTED OTHERWISE.

3" CAST AGAINST GROUND

- 6. CLEAR CONCRETE COVER FOR REINFORCING STEEL:

 MASONRY WALLS
 LOCATE IN CENTER OF WALL (U.N.O.)
 FOOTINGS
 2" FORMED EDGES
- THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- 8. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
- 9. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA:

SPECIFIED OVERALL F NUMBERS FLATNESS FF = 20

LEVEL FL = 15

MINIMUM LOCAL F NUMBERS
FLATNESS FF = 15
LEVEL FL = 10

5 STEEL NOTES

- 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN" NINTH EDITION.
- STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4
 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
- USE SNUG-TIGHT CONNECTIONS AS PER AISC WITH HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS.
- 4. ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR
- BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.

 5. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS
- SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.

 6. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.
- 7. PAINT ALL STRUCTURAL STEEL WITH ONE COAT OF RED OXIDE RUST—INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH—UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SUBJECT.
- 8. SUBMIT SHOP DRAWINGS CONFIRMING THAT THE CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AISC CODES SPECIFIED HEREIN. THE SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SHOP DRAWINGS SHALL INCLUDE NUMBER, SPACING, AND DISTANCE FROM BEAM CENTERLINE OF SHEAR STUDS. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

6 COLD FORMED FRAMING

1. ALL FRAMING MEMBERS SHALL BE THE SIZE SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL METAL STUDS SHALL BE 20 GA U.N.O

- ALL FRAMING MEMBERS SHALL BE MANUFACTURED FROM GALVANIZED STEEL.
 GALVANIZED STEEL USED IN THE MANUFACTURE OF JOISTS, STUDS AND LINTELS SHALL CONFORM TO ASTM DESIGNATION A446 GRADE C (MINIMUM YIELD POINT 40000 PSI) WITH
- 4. GALVANIZED STEEL RUNNER TRACK AND MISCELLANEOUS ACCESSORIES SHALL BE FORMED WITH MATERIAL MEETING REQUIREMENTS OF ASTM DESIGNATION A446 GRADE A (MINIMUM YIELD POINT 33000 PSI) WITH HOT DIPPED GALVANIZED COATING.
- STRUCTURAL DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
- 6. CARE SHALL BE EXERCISED AT ALL TIMES TO AVOID DAMAGE THROUGH CARELESS HANDLING DURING UNLOADING, STORING, AND ERECTION OF FRAMING MEMBERS AND
- 7. STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH FIRM ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACK. STUDS SHALL BE POSITIONED IN RUNNER TRACK SO AS TO BE ALIGNED DIRECTLY BELOW FLOOR ROOF OR CEILING FRAMING MEMBERS OVERHEAD. IF UNABLE TO CENTER AND DIRECTLY TRANSFER LOADS FROM FLOOR OR ROOF FRAMING (SUCH AS AT OPENINGS) TO THE STUDS, LINTELS SHALL BE PROVIDED.
- 8. JOINING OF FRAMING MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDING. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE DEPOMITTED.
- 9. HORIZONTAL STEEL STRAPPING, WHEN REQUIRED BY THE APPLICABLE TABLES, SHALL BE:

 A) FASTENED TO THE BOTTOM FLANGE OF THE STEEL JOIST
 B) ATTACHED TO BOTH SIDES OF ALL STUDS
 STRAPPING SHALL BE INSTALLED AND SECURELY ANCHORED TO SUITABLE RESTRAINING
 COLUMNS OR WALLS PRIOR TO THE ERECTION OF STRUCTURE ABOVE
- 10. SPLICES IN STEEL STUDS SHALL NOT BE PERMITTED.

SUB-ASSEMBLIES.

11. DURING ERECTION, THE BUILDER SHALL PROVIDE MEANS OF ADEQUATE DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE LOAD CARRYING CAPACITY OF ANY STEEL FRAMING MEMBER IS NOT EXCEEDED.

| 7 | FOOTIN | G SCI | HEDULE 1500 PSF SOIL BEARING |
|------|----------------------------------|--|--|
| MARK | FOOTING SIZE | FOOTING THICKNESS | REINFORCEMENT |
| F1 | 2'-0" x 2'-0" | 12" | 4 — #5 BARS EACH WAY AT BOTTOM |
| F2 | 3'-0" x 3'-0" | 12" | 4 — #5 BARS EACH WAY AT BOTTOM |
| F3 | 4'-0" x 4'-0" | 12" | 5 — #5 BARS EACH WAY AT BOTTOM |
| F4 | 5'-0" x 5'-0" | 12" | 5 — #5 BARS EACH WAY AT BOTTOM |
| F5 | 5'-6" x 5'-6" | 16" | 6 - #5 BARS EACH WAY AT BOTTOM |
| F6 | 6'-0" × 6'-0" | 20" | 8 — #5 BARS EACH WAY AT BOTTOM |
| F7 | 6'-6" × 6'-6" | 20" | 9 — #5 BARS EACH WAY AT BOTTOM |
| F8 | 7'-6" x 7'-6" | 24" | 10 - #5 BARS EACH WAY AT BOTTOM |
| | F1 F2 F3 F4 F5 F6 | MARK FOOTING SIZE F1 2'-0" x 2'-0" F2 3'-0" x 3'-0" F3 4'-0" x 4'-0" F4 5'-0" x 5'-0" F5 5'-6" x 5'-6" F6 6'-0" x 6'-0" F7 6'-6" x 6'-6" | MARK SIZE THICKNESS F1 2'-0" x 2'-0" 12" F2 3'-0" x 3'-0" 12" F3 4'-0" x 4'-0" 12" F4 5'-0" x 5'-0" 12" F5 5'-6" x 5'-6" 16" F6 6'-0" x 6'-0" 20" F7 6'-6" x 6'-6" 20" |

NOTE: NOT ALL FOOTINGS ARE USED. RE: FOUNDATION PLAN

8 FOUNDATION NOTES

- 1. DIMENSIONS ARE TO EITHER (UNLESS NOTED OTHERWISE)
 CENTERLINE OF COLUMNS
 FACE OF STEEL
- CENTER FOOTINGS UNDER COLUMNS UNLESS NOTED OTHERWISE
 TREAT BUILDING PAD FOR SUBTERRANEAN TERMITES PRIOR TO
- INSTALLATION OF THE VAPOR BARRIER
- 4. PROVIDE REINFORCED POLYESTER VAPOR BARRIER5. PLACE SLAB OVER 6" FREE DRAINING CAPILLARY BARRIER (AGGREGATE)
- OR PER GEOTECHNICAL ENGINEER'S RECOMMENDATION

 6. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS AND OR DIMENSIONS NOT SHOWN
- 7. AVOID OPEN TRENCH EXCAVATIONS FOR EXTENDED PERIOD OF TIME.
- 8. RE: DETAIL 1S2.3 FOR SLAB CONTROL JOINTS.
 9. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS
- AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
 10. FOUNDATION FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL
- GROUND. NOTIFY ARCHITECT IF GRADE BEAM DEPTHS SHOWN DO NOT EXTEND TO NATURAL GROUND

 11. COORDINATE LOCATIONS OF DRAINS, FIXTURES, CLEANOUTS, ETC. WITH
- PLUMBING AND CIVIL PLANS

 12. SLOPE TO FLOOR DRAINS SHALL BE 1" IN 6'
- 13. PROVIDE DAP OUTS FOR STEEL COLUMNS AS SHOWN. REFER TO METAL BUILDING DRAWINGS FOR BASE PLATE SIZES.14. FOUNDATION HAS BE DESIGNED TO ACCOMMODATE THE FOLLOWING
- LOADS: 14.1. FLOOR LIVE = 100 PSF
- 14.2. ROOF LIVE = 20 PSF15. FILL, FOUNDATION BEAM DEPTHS, AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL (SOIL) REPORT AND CIVIL DRAWINGS
- 16. MAXIMUM FILL HEIGHT ALLOWED= 36 INCHES

 17. CONTRACTOR SHALL PLAN HIS WORK IN ORDER TO PLACE CONCRETE AS SOON AS POSSIBLE AFTER SOIL HAS BEEN PREPARED FOR CONSTRUCTION IN ORDER TO MINIMIZE DAMAGE OF THE SOIL BY EXPOSURE TO THE ENVIRONMENT. DO NOT PLACE CONCRETE ON SOILS
- THAT HAVE BEEN DISTURBED BY BY RAINFALL, PONDING WATER OR DESICCATED SOILS (SOILS THAT HAVE EXCESSIVELY DRIED).

 18. REFER TO METAL BUILDING DRAWINGS FOR ANCHOR BOLTS AND OTHER
- REQUIRED EMBEDS

 19. GRADE BEAM DEPTHS/WIDTHS SHOWN SHALL NOT BE REDUCED. GRADE
- BEAM DEPTHS/WIDTHS MAY BE ENLARGED BY 20%.
 20. ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCAL & FEDERAL
- REQUIREMENTS, CODES & REGULATIONS.
 21. CONTRACTOR SHALL SET FORMWORK BASED ON THE ARCHITECTURAL
- DRAWINGS

 22. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GIVEN QUANTITIES,
 OFFSETS, DROPS, INSERTS, BRICK LEDGES AND BLOCK-OUTS WITH
- ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.

 23. ALL ANCHORS, CLIPS, STRAPS & ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
- 24. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8"
 DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEER APPROVED EQUAL.

An Architectural Corporation

An Architectural Corporal 1111 S. Foster Dr, Suite D

> 70806 (225) 761-5191

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Baton Rouge, LA.

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ON ROUGE POLICE DEPARTMED
TRAINING FACILITY
999 WEST IRENE ROAD, ZACHARY, LA 70791

SHEET TITLE

NOTES SCHEDULES AND DETAILS

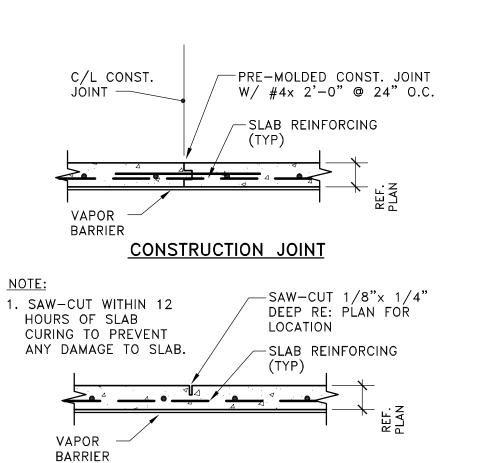
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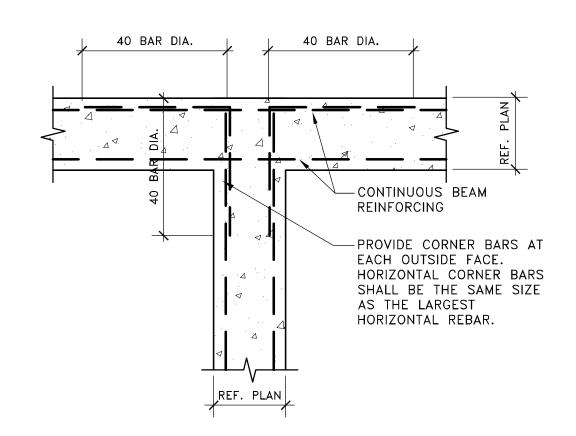
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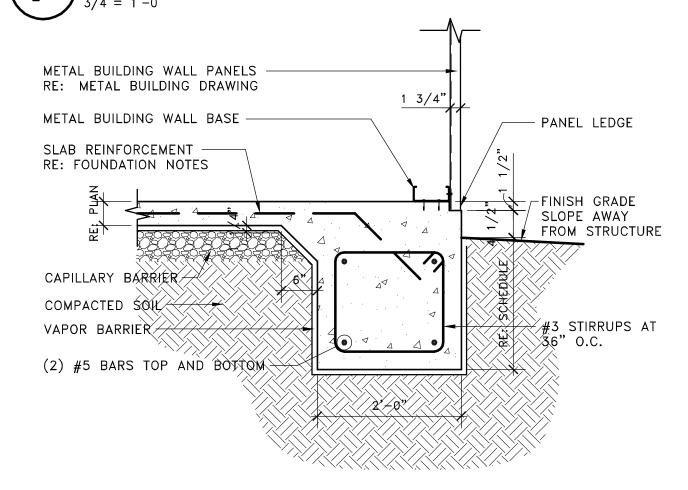
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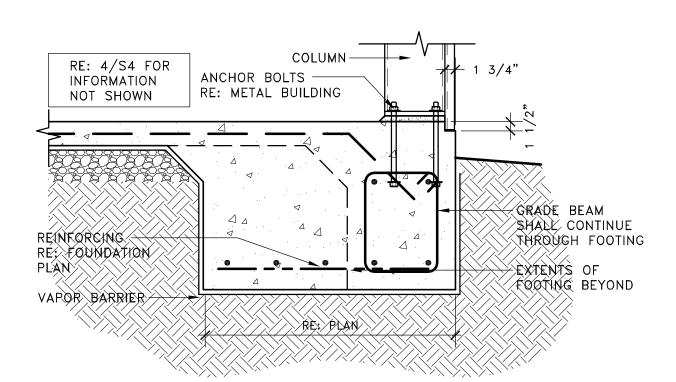
SAWCUT CONTROL JOINT **SLAB ON GRADE JOINTS**



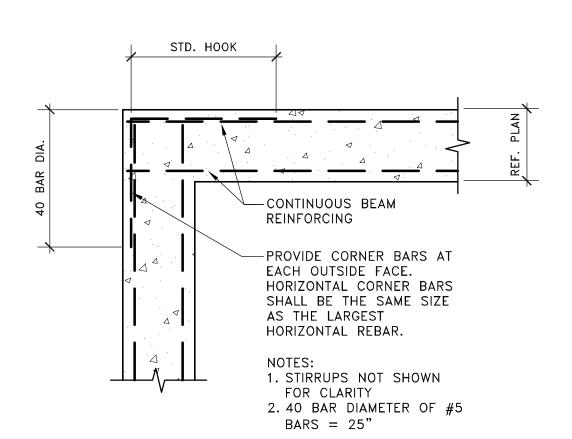
TYPICAL CONTINUITY "T"



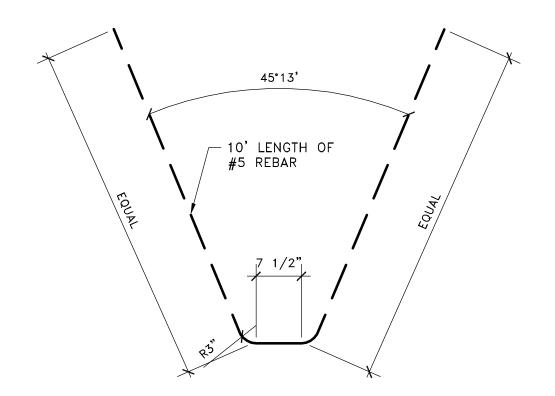
EXTERIOR FOOTING AT CMU WALL 3/4"= 1'-0"



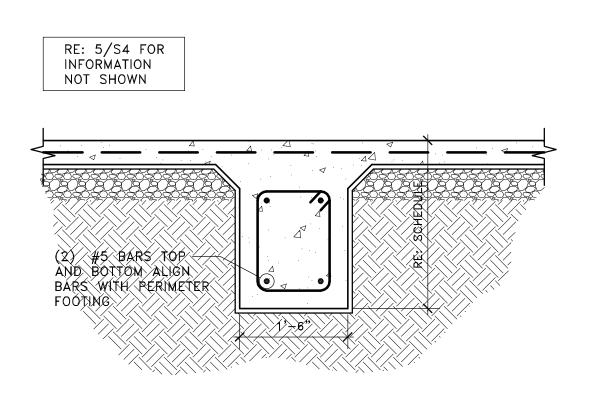
EXTERIOR COLUMN FOOTING



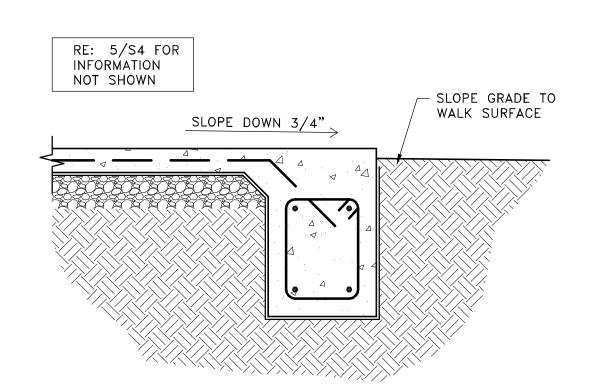
TYPICAL CONTINUITY CORNER



COLUMN HAIRPIN DETAIL



INTERIOR STIFFNER



EXTERIOR FOOTING AT DOOR

12

2 FOUNDATION NOTES

- 1. DIMENSIONS ARE TO CENTERLINE OF COLUMNS U.N.O. 2. REFER TO SHEET S2 FOR ADDITIONAL CONCRETE REQUIREMENTS 3. SLAB SHALL BE A MINIMUM OF 4" THICK, 3000 PSI CONCRETE SLAB
- 6. PROVIDE WWR 6x6 W2.9xW2.9 SLAB REINFORCEMENT AT MID-DEPTH OF
- 7. TREAT BUILDING PAD FOR SUBTERRANEAN TERMITES PRIOR TO
- INSTALLATION OF THE VAPOR BARRIER
- 8. PROVIDE REINFORCED POLYESTER VAPOR BARRIER. 9. PLACE SLAB OVER 4" FREE DRAINING CAPILLARY BARRIER (AGGREGATE) OR
- PER GEOTECHNICAL ENGINEER'S RECOMMENDATION. 10. REFER TO ARCHITECTURAL DRAWINGS FOR ANY WALL LOCATIONS AND OR DIMENSIONS NOT SHOWN.
- 11. BOTTOM OF EXTERIOR FTG. = 2'-0" BELOW FINISH FLOOR ELEV. U.N.O.
- 12. AVOID OPEN TRENCH EXCAVATIONS FOR EXTENDED PERIOD OF TIME. 13. RE: DETAIL 1/S4 FOR SLAB CONTROL JOINTS.
- 14. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
- 15. FOUNDATION FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL GROUND NOTIFY ARCHITECT IF GRADE BEAM DEPTHS SHOWN DO NOT EXTEND TO NATURAL GROUND
- 16. COORDINATE LOCATIONS OF DRAINS, FIXTURES, CLEANOUTS, ETC. WITH PLUMBING AND CIVIL PLANS

18. PROVIDE DAP OUTS FOR STEEL COLUMNS AS SHOWN. REFER TO METAL

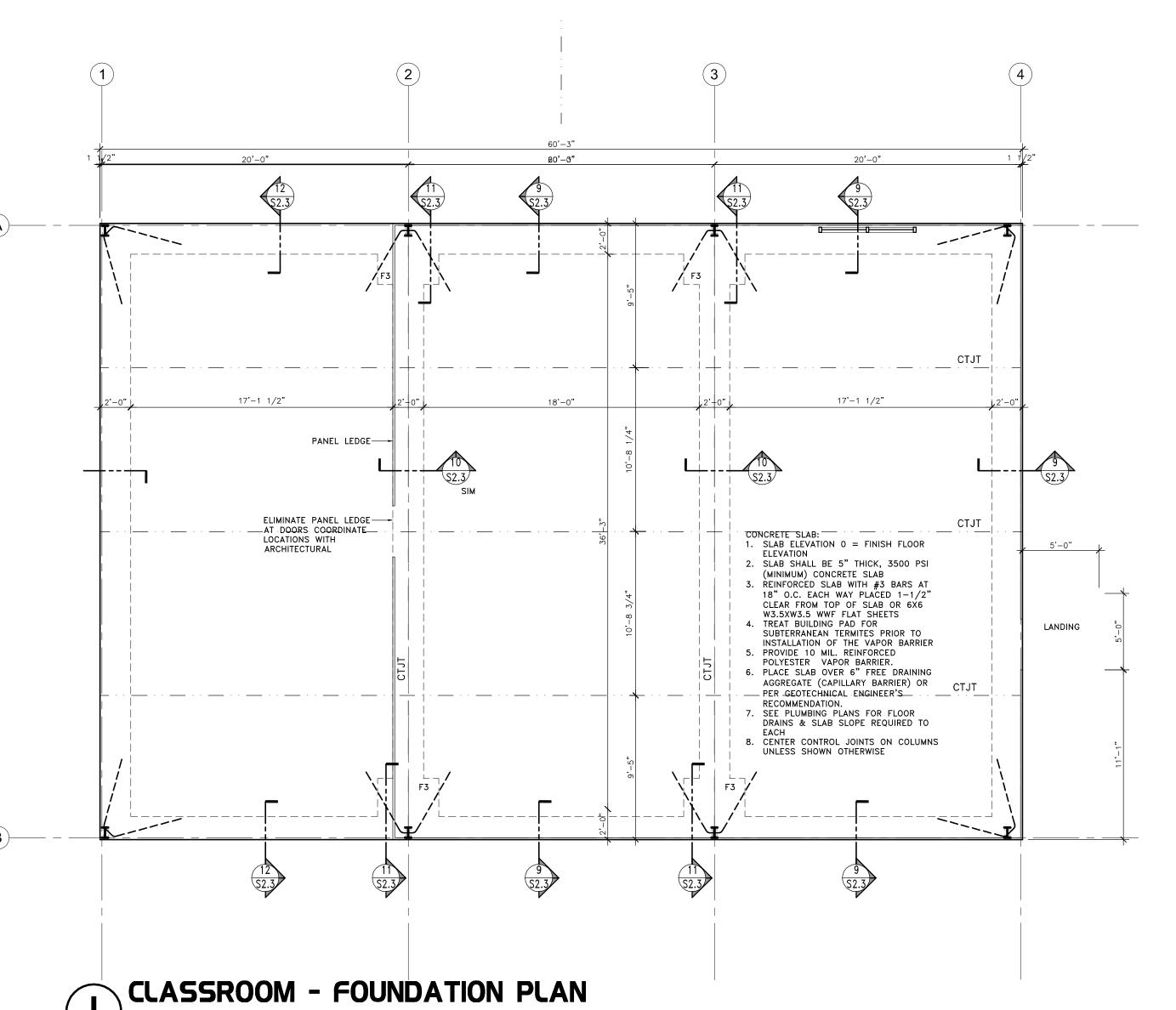
17. SLOPE TO FLOOR DRAINS SHALL BE 1" IN 6"

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- 19.2. ROOF LIVE = 20 PSF 20. FILL, FOUNDATION BEAM DEPTHS, AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL (SOIL) REPORT AND CIVIL DRAWINGS
- 21. MAXIMUM FILL HEIGHT ALLOWED= 36 INCHES 22. CONTRACTOR SHALL PLAN HIS WORK IN ORDER TO PLACE CONCRETE AS SOON AS POSSIBLE AFTER SOIL HAS BEEN PREPARED FOR CONSTRUCTION IN ORDER TO MINIMIZE DAMAGE OF THE SOIL BY EXPOSURE TO THE ENVIRONMENT. DO NOT PLACE CONCRETE ON SOILS THAT HAVE BEEN DISTURBED BY BY RAINFALL, PONDING WATER OR DESICCATED SOILS (SOILS
- THAT HAVE EXCESSIVELY DRIED). 23. REFER TO METAL BUILDING DRAWINGS FOR ANCHOR BOLTS AND OTHER REQUIRED EMBEDS
- 24. GRADE BEAM DEPTHS/WIDTHS SHOWN SHALL NOT BE REDUCED. GRADE BEAM DEPTHS/WIDTHS MAY BE ENLARGED BY 20%.
- 25. ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCAL & FEDERAL
- REQUIREMENTS, CODES & REGULATIONS. 26. CONTRACTOR SHALL SET FORMWORK BASED ON THE ARCHITECTURAL DRAWINGS
- 27. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GIVEN QUANTITIES, OFFSETS, DROPS, INSERTS, BRICK LEDGES AND BLOCK-OUTS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- 28. ALL ANCHORS, CLIPS, STRAPS & ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
- 29. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEER APPROVED EQUAL.

| 3 LEGEND | | | | | | | | |
|----------|--------------------------------|--|--|--|--|--|--|--|
| | | | | | | | | |
| | MASONRY WALL RE: ARCHITECTURAL | | | | | | | |
| | CONTROL JOINT | | | | | | | |

FOUNDATION SCHEDULE

| MARK | FOOTING SIZE | FOOTING THICKNESS | REINFORCEMENT |
|------|-----------------|----------------------|---|
| FS1 | 1'-0" x CONT. | 16" | #3 AT 36" O.C. W/ 4 - #5 CONT. |
| F1 | 2'-6" x 2'-6" | 16" | 3 - #5 BARS EACH WAY AT BOTTOM |
| F2 | 3'-6" x 3'-6" | 16" | 4 - #5 BARS EACH WAY AT BOTTOM |
| F3 | 4'-0" x 4'-0" | 16" | 5 - #5 BARS EACH WAY AT BOTTOM |
| F4 | 6'-0" x 6'-0" | 16" | 8 — #5 BARS EACH WAY AT BOTTOM 4 — #4 SHORT BARS EACH WAY AT TOP |



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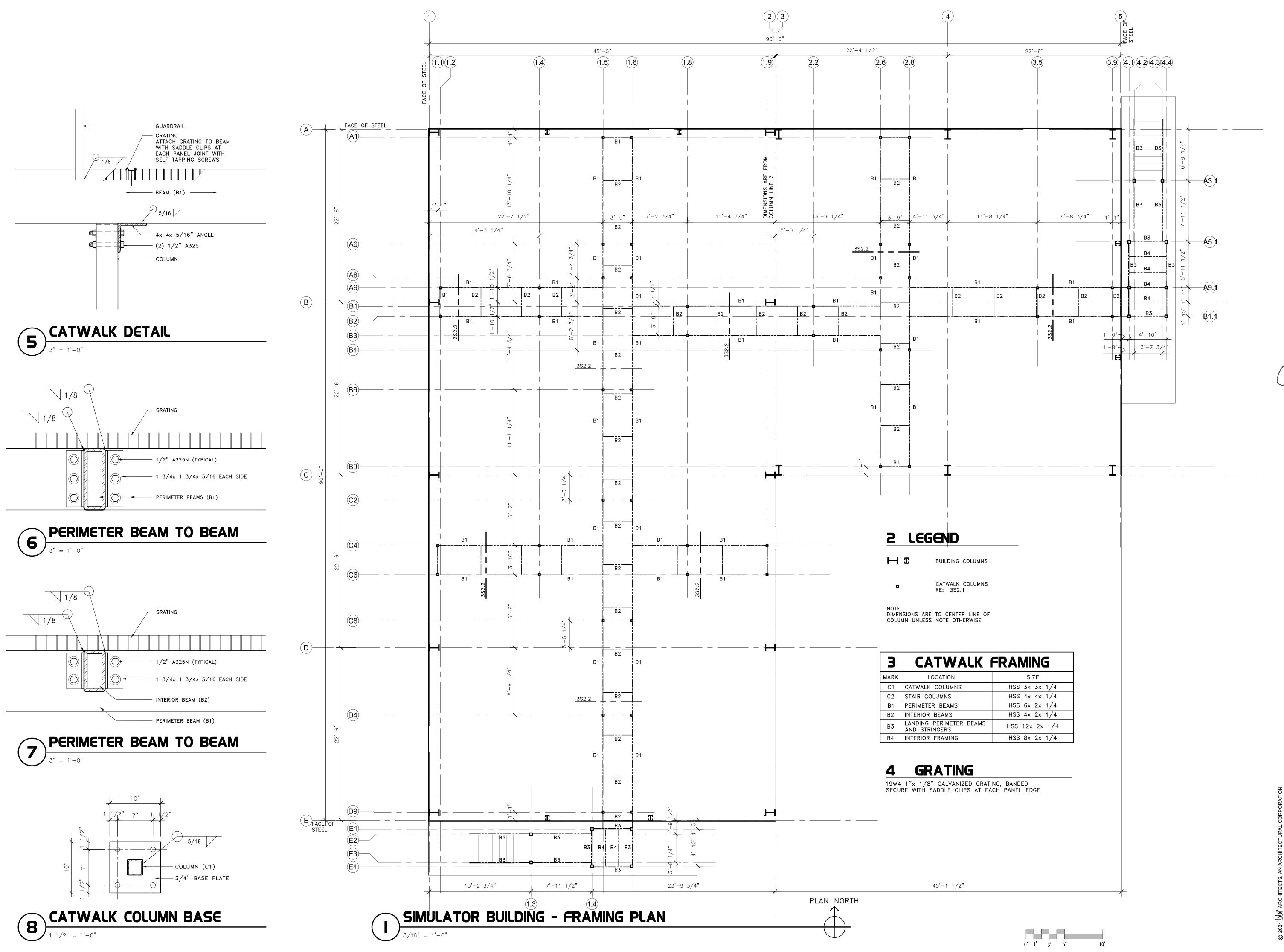
SHEET TITLE

FOUNDATION PLAN

BBI Job No. <u>A24-005</u>

Drawn By

Checked By ____bb



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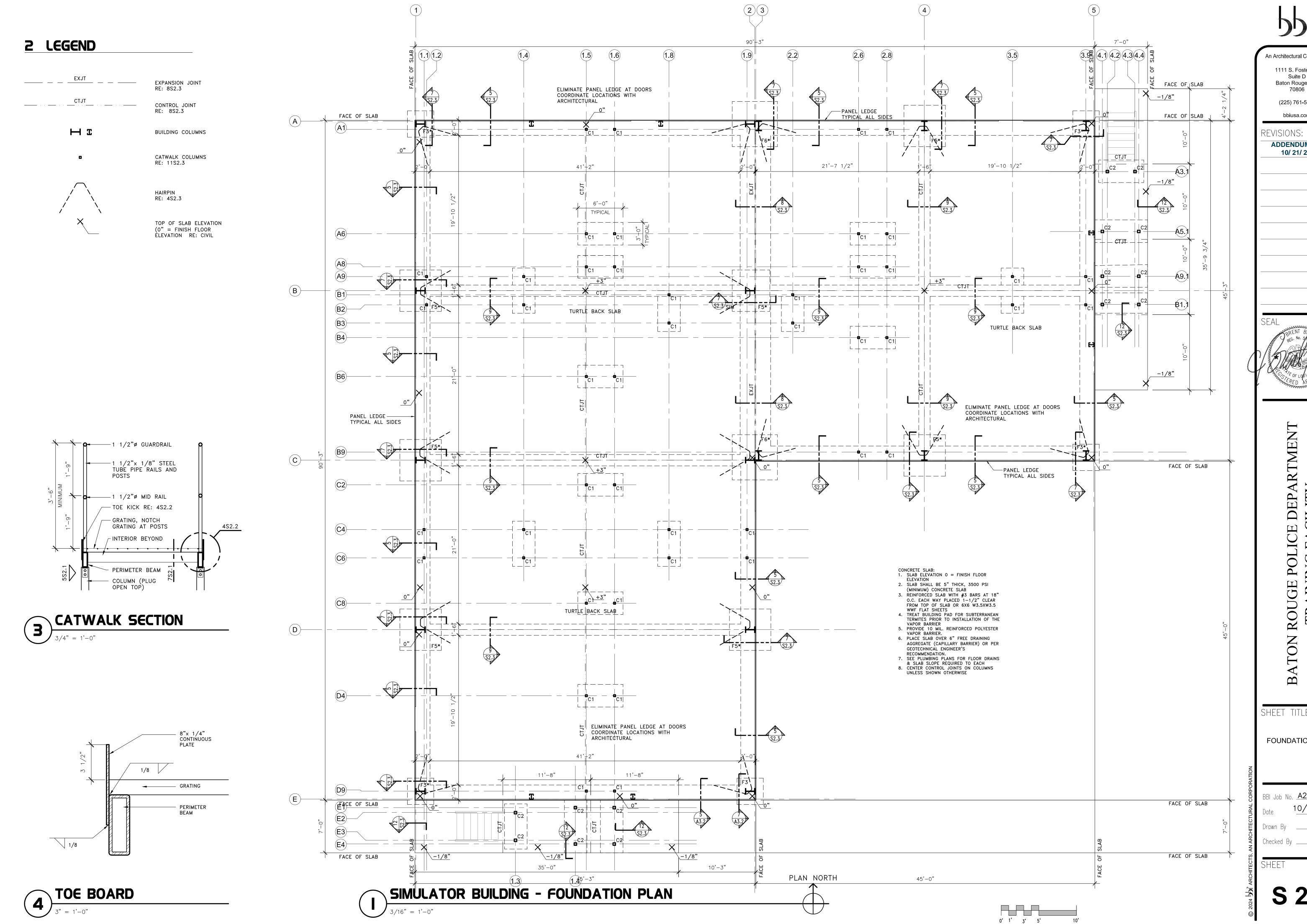
FRAMING PLAN

BBI Job No. <u>A24-005</u>
Date 10/1/2024

Drawn By se
Checked By bb

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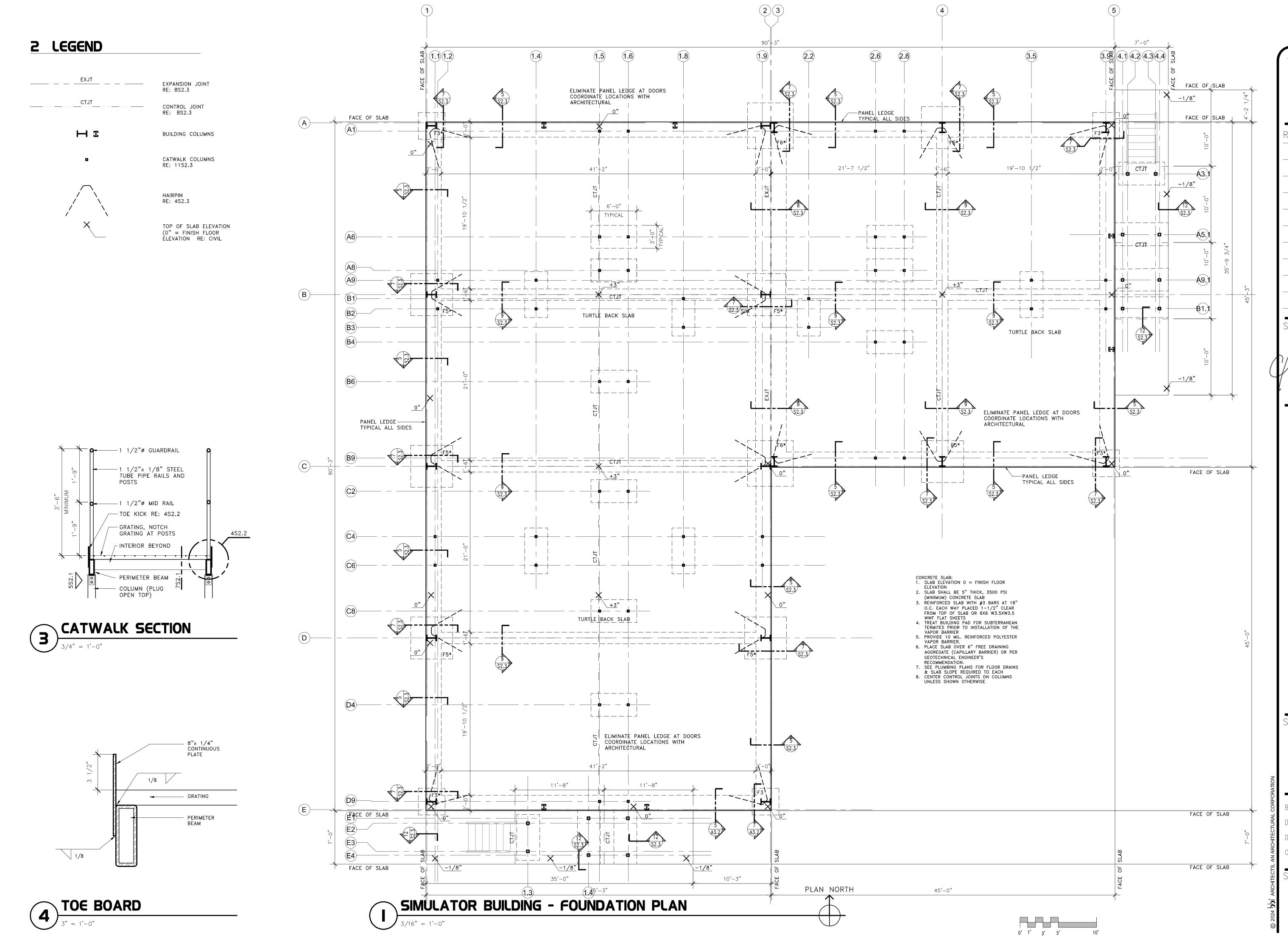
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SHEET TITLE

FOUNDATION PLAN

BBI Job No. <u>A24-005</u> Drawn By



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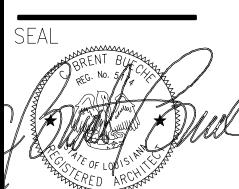
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10/ 21/ 2024



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999 WEST IRENE ROAD, ZACHARY, LA 70791

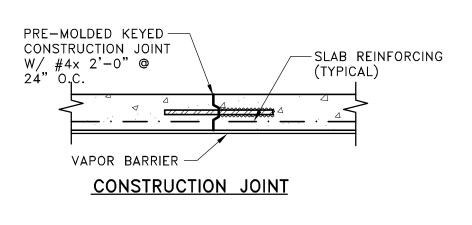
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FOUNDATION PLAN

BBI Job No. <u>A24-005</u>
Date 10/1/2024

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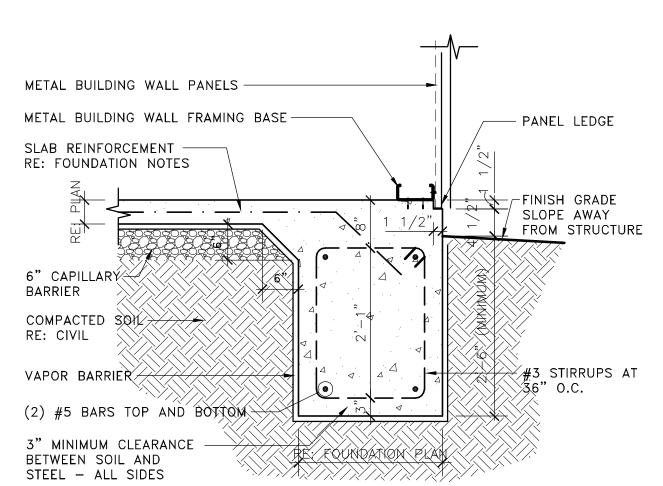
S 2.2



SAW-CUT 1/8"x 1/4" 1. SAW-CUT WITHIN 12 DEEP RE: PLAN FOR HOURS OF SLAB LOCATION CURING TO PREVENT ANY DAMAGE TO SLAB. - SLAB REINFORCING VAPOR BARRIER -

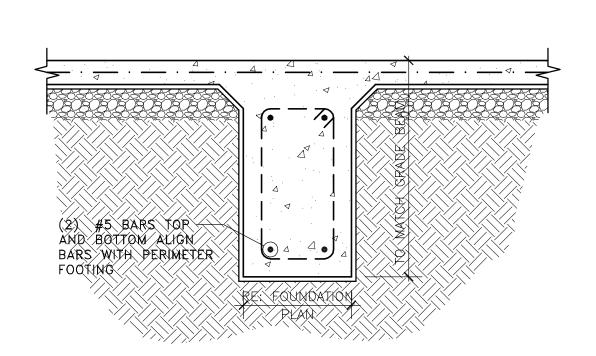
SAWCUT CONTROL JOINT

SLAB ON GRADE JOINTS

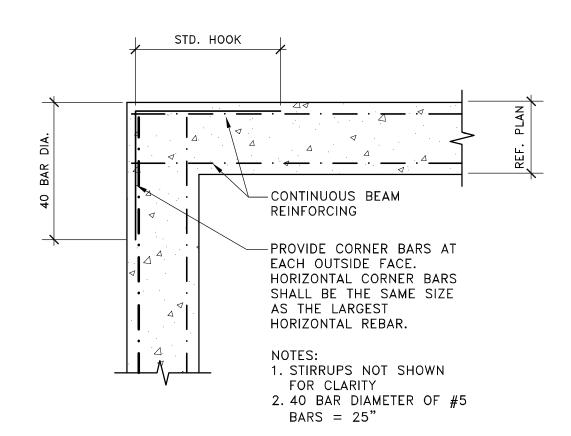


EXTERIOR GRADE BEAM

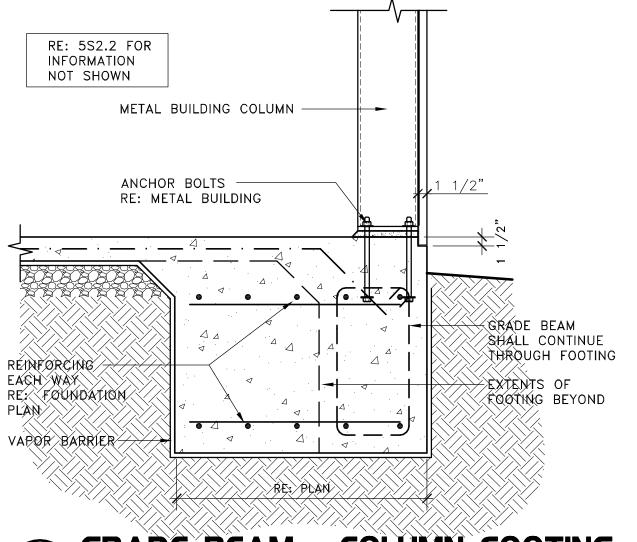
RE: 5S2.2 FOR INFORMATION NOT SHOWN



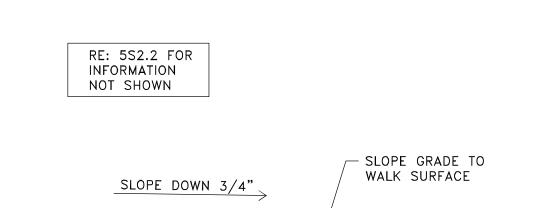
INTERIOR STIFFNER

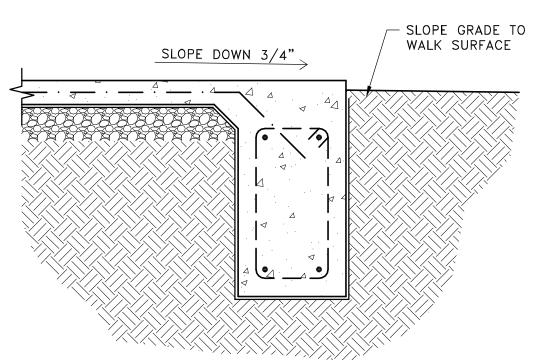


TYPICAL CONTINUITY CORNER 3/4"= 1'-0"

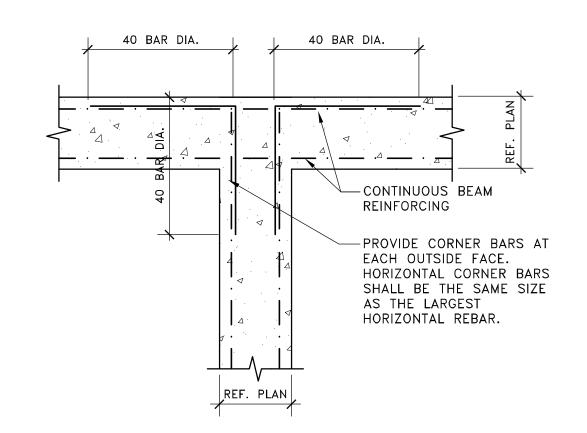




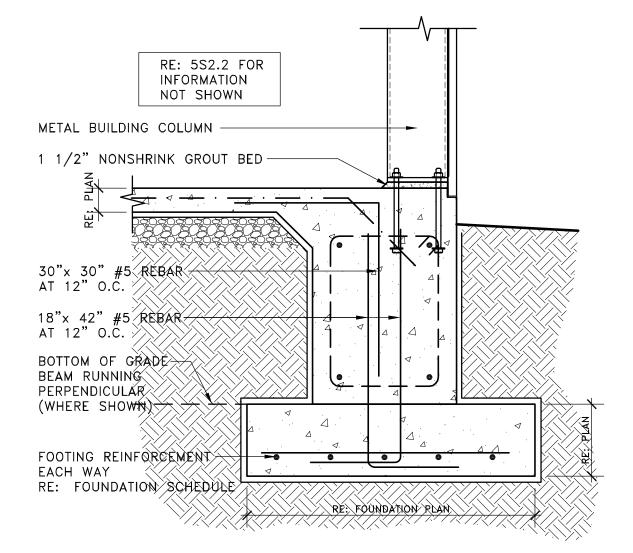




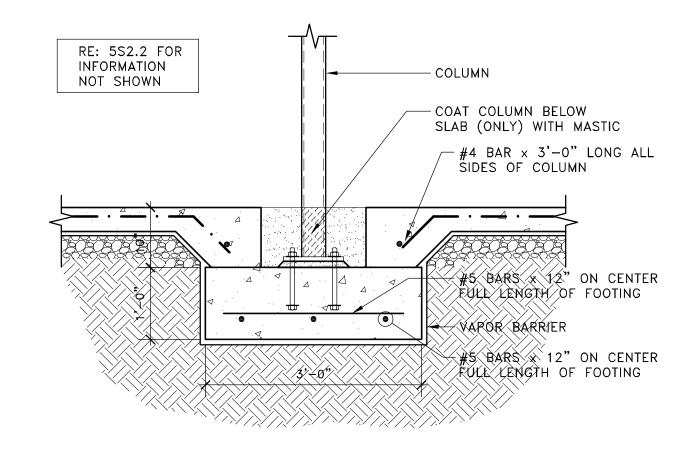
EXTERIOR FOOTING AT PORCH 3/4"= 1'-0"



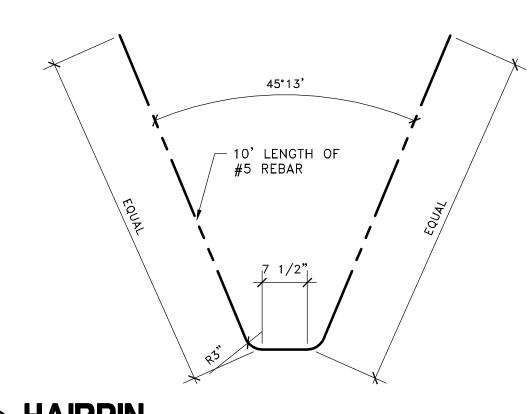
TYPICAL CONTINUITY "T"

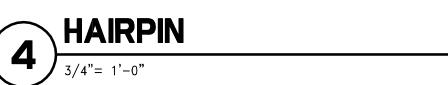


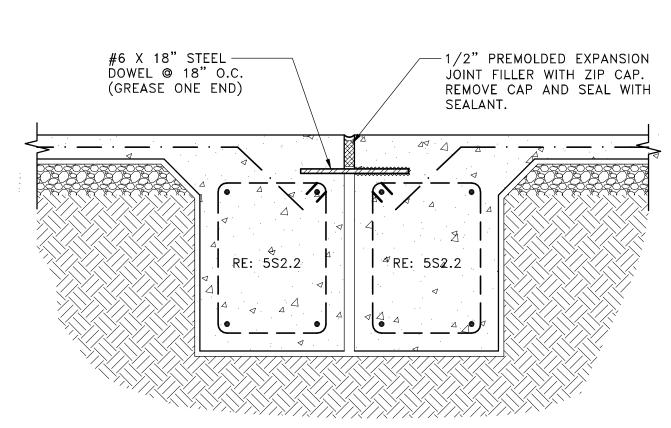
GRADE BEAM - COLUMN FOOTING



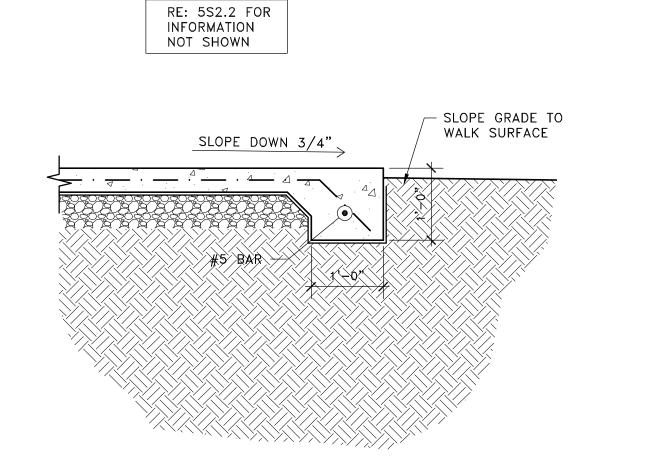








EXPANSION JOINT





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ADDENDUM No. 1 10/ 21/ 2024

SHEET TITLE

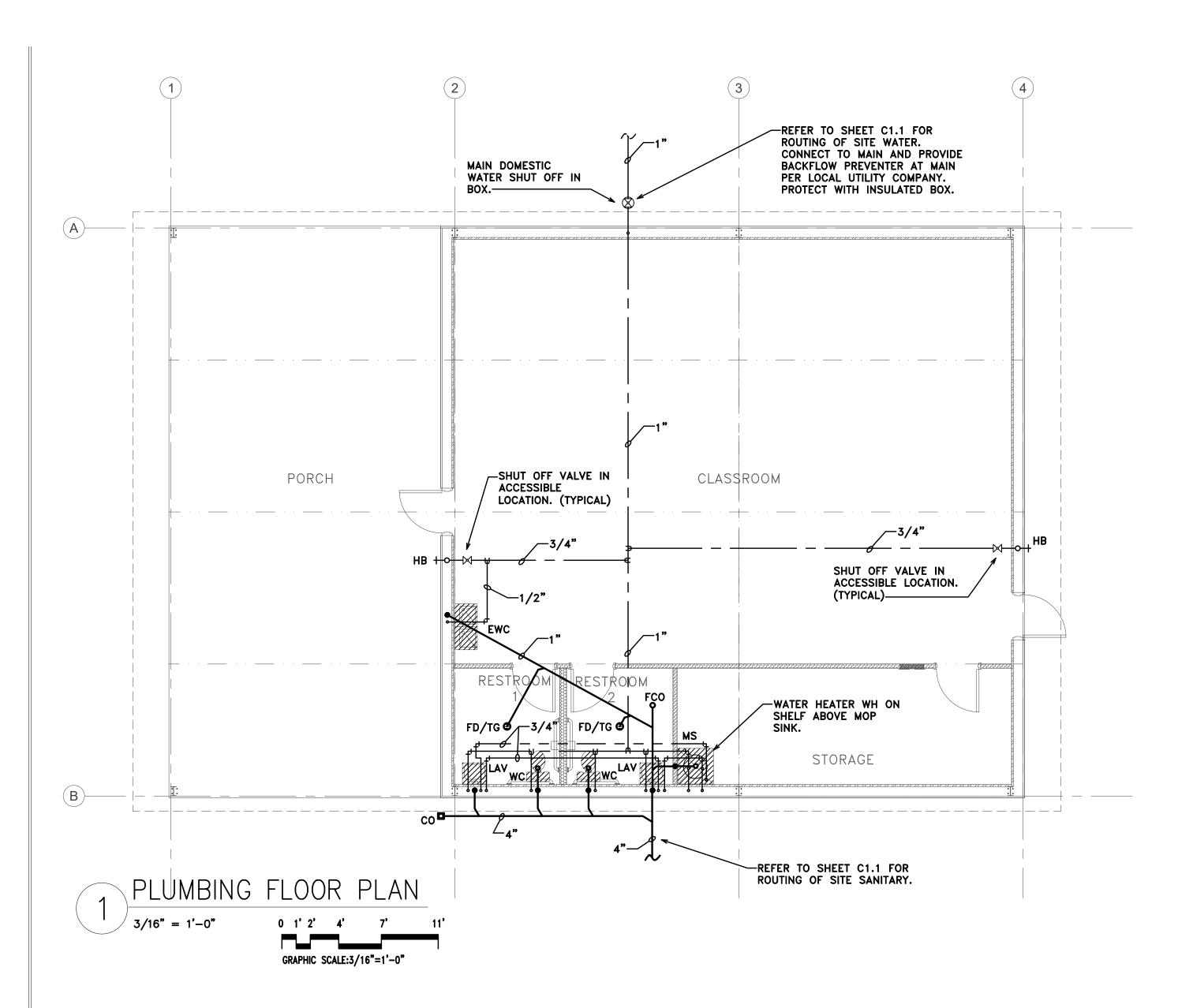
FOUNDATION DETAILS

BBI Job No. <u>A24-005</u>

Drawn By ____**se**__ Checked By ____bb

SHEET

S 2.3



| | | | | | | PLUN | MBING FIX | XTURE SCHEDULE |
|-----|---------------------|--------|-------|-----------|------|------|-----------|--|
| | | | ſ | PIPE SIZE | | | A.D.A. | |
| NO. | FIXTURE | TRAP | WASTE | VENT | C.W. | H.W. | COMPLIANT | REMARKS |
| WC | WATER CLOSET ADA | INT | 4" | 3" | 3/4" | | YES | GERBER G0020318 1.6 GPF VITREOUS CHINA TANK TYPE WATER CLOSET WITH ELONGATED BOWL, WHITE SOLID PLASTIC SEAT LESS COVER WITH OPEN FRONT AND CHECK HINGE AND BOLT CAPS. HANDLE ON WIDE SIDE OF FIXTURE. |
| LAV | LAVATORY ADA | 1-1/4" | 2" | 2" | 1/2" | 1/2" | YES | AMERICAN STANDARD 0355.012 WALL MOUNT VITREOUS CHINA LAVATORY WITH WALL CARRIER, AMERICAN STANDARD 5500.170 TWO HANDLE WRIST BLADE ADA FAUCET, GRID DRAIN, PTRAP AND ANGLE SUPPLIES WITH STOPS. SET AT HEIGHT PER ARCHITECTURAL PLANS. INSTALL ASSE 1070 TEMPERATURE LIMITING DEVICE AT FIXTURE TO LIMIT HOT WATER TEMP. |
| EWC | WATER COOLER | 1-1/2" | 2" | 2" | 1/2" | 1/2" | YES | ELKAY EZSTL8WSSK BILEVEL WATER COOLER WITH BOTTLE FILLING STATION, STAINLESS STEEL FINISH, 120–1–60 ELECTRICAL SERVICE. |
| MS | MOP SINK | 2" | 2" | 2" | 1/2" | 1/2" | NO | FIAT MSB2424 MOLDED STONE SERVICE SINK WITH SERVICE SINK FAUCET, HOSE AND MOP HANGER, VINYL BUMPER GUARDS AND STAINLESS STEEL WALL GUARDS. |
| НВ | HOSE BIBB | | | | 3/4" | | | WOODFORD B24 BOX TYPE HOSE BIBB WITH VACUUM BREAKER AND WHEEL HANDLE. |
| FD | FLOOR DRAIN | 3" | 3" | 2" | | | | SIOUX CHIEF 832-36PF FLOOR DRAIN WITH 832-4HNR RING AND STRAINER. FURNISH WITH TRAP GUARD. |
| TG | TRAP GUARD | | 3" | | | | | PROSET, ZURN Z1072 TRAP GUARD. COORDINATE SIZE WITH DRAIN. |
| WH | WATER HEATER | | | | 3/4" | 3/4" | | RUUD EGSP20 20 GALLON ELECTRIC WATER HEATER, 4500 WATT, 240-1-60 ELECTRICAL SERVICE. FURNISH WITH SAFETY PAN, WATTS FLOODSAFE SHUT OFF KIT, 120-1-60 AND RECIRCULATING PUMP, 120-1-60. |

NOTES:

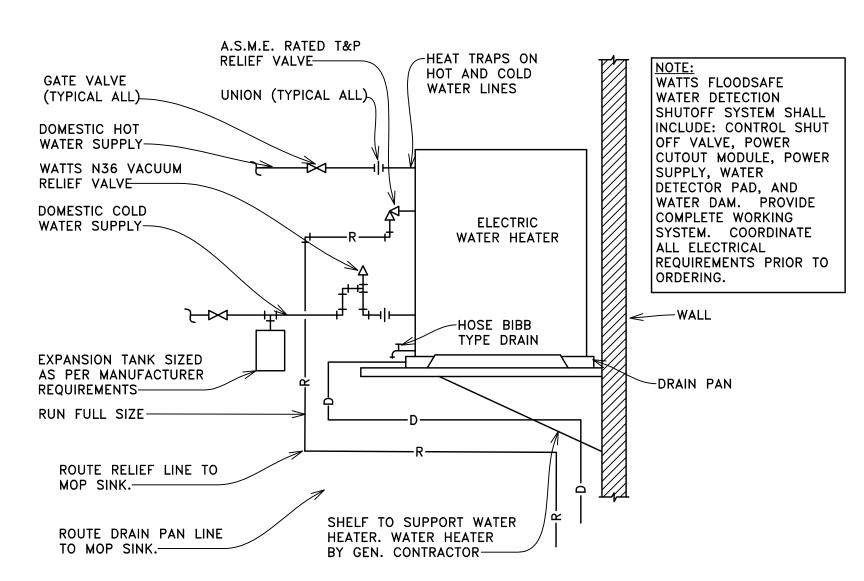
. INSULATE ALL EXPOSED P—TRAPS AND ANGLE SUPPLIES ON HANDICAPPED LAVATORIES WITH TRUEBRO HANDI LAV—GUARD OR EQUAL. 2. PROVIDE AND INSTALL PISTON TYPE WATER HAMMER ARRESTORS AT ALL DOMESTIC WATER STUB-OUTS.

3. ALL HANDICAPPED PLUMBING FIXTURES SHALL BE SET TO "ADA" HEIGHT REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT HEIGHTS.

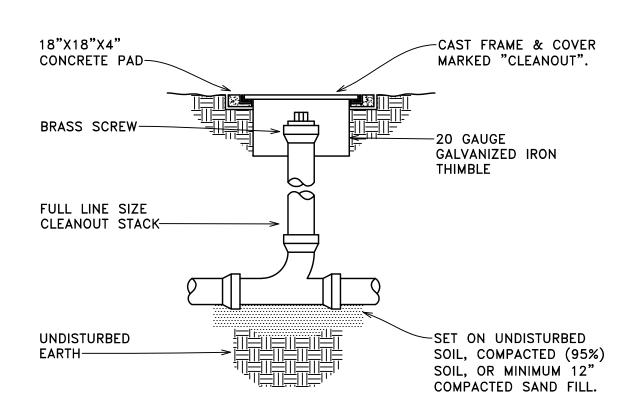
4. CONTRACTOR TO OBTAIN A COPY OF ALL INSTALLATION INSTRUCTIONS AND ROUGH IN REQUIREMENTS FOR ALL EQUIPMENT FURNISHED BY OTHERS. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS. . INSTALL HEAT TRAPS AT WATER HEATER PER IECC 2021.

6. HOT WATER TO LAVATORIES SHALL NOT CONNECT MORE THAN 2FT FROM CIRCULATING PORTION OF HOT WATER LINE PER IECC 2021. WHERE INSTANTANEOUS WATER HEATERS ARE NOT USED, THIS SHALL REQUIRE MAIN HOT WATER LINE TO ROUTE IN WALL ADJACENT TO FIXTURE SUCH THAT LOOP IS PASSING WITHIN 2FT OF CONNECTION TO

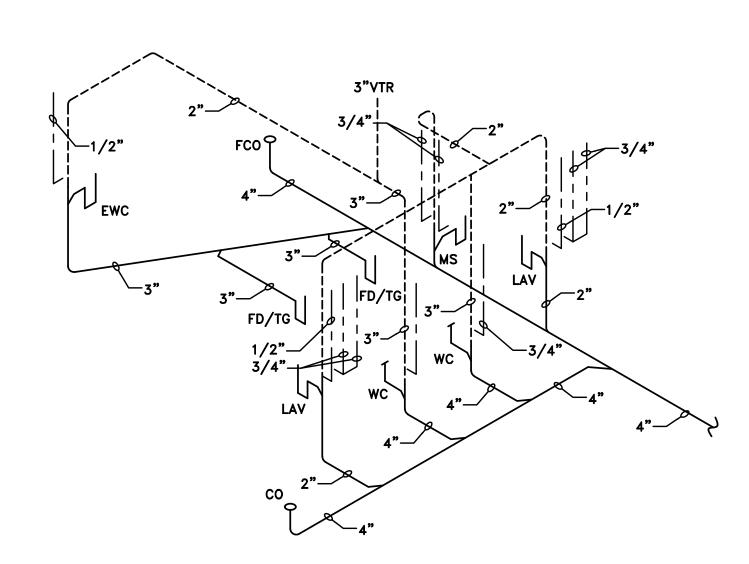
7. ALL FIXTURE STOPS SHALL BE QUARTER TURN.



No Scale



OUTSIDE CLEANOUT DETAIL





PLUMBING GENERAL NOTES:

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

- 1. FURNISH AND INSTALL ALL EQUIPMENT/PLUMBING FIXTURES AS INDICATED BY THESE DRAWINGS. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED. FOR EQUIPMENT FURNISHED BY OTHERS, CONTRACTOR SHALL VERIFY ALL UTILITY CONNECTIONS IN THE FIELD.
- 2. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND INVERTS OF ALL EXISTING SERVICES IN FIELD PRIOR TO MAKING ROUGH-INS. FAILURE TO DO SO MAY RESULT IN THE BREAKING OF SLAB AT CONTRACTOR'S EXPENSE.
- 3. THE ROUTING OF ALL PIPING SHALL BE COORDINATED WITH ALL THE OTHER TRADES TO AVOID POSSIBLE CONFLICTS. OFFSET PIPING AS REQUIRED.
- 4. ALL DOMESTIC WATER PIPING SHALL BE RUN ABOVE THE CEILING AND/OR CONCEALED IN WALLS UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR SHALL COORDINATE SPACE REQUIREMENTS AND SERVICE CLEARANCES FOR ALL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS.
- 6. CONTRACTOR SHALL CONSOLIDATE VENTS TO MINIMIZE PENETRATIONS THROUGH ROOF. LOCATE VENTS A MINIMUM OF 10 FEET FROM FRESH AIR OPENINGS. VENT PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO
- 7. AT EACH FIXTURE OR GROUP OF FIXTURES (WITHIN SAME CHASE), FURNISH AND INSTALL A 12" HIGH AIR CHAMBER OF SAME SIZE AS BRANCH FEED LINE. PROVIDE "SHOCK ARRESTOR" AT ALL FIXTURES WITH QUICK CLOSING VALVES SUCH AS FLUSH VALVES, ETC.
- 8. PROVIDE CHROME PLATED BRASS ESCUTCHEONS WHERE PIPES PENETRATE FINISHED SURFACES.
- 9. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXTERIOR WALLS WEATHER TIGHT. SEALANT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE
- 10. PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH WALL, FLOOR, BEAMS, FOOTINGS, ETC AS SPECIFIED. ALL METAL PIPING PASSING THROUGH CONCRETE SLAB SHALL BE WRAPPED AS SPECIFIED.
- 11. NO WATER OR DRAIN LINES MAY BE RUN ABOVE ELECTRICAL PANELS OR COMMUNICATION PANELS. COORDINATE WITH ELECTRICAL PLANS AND OFFSET PIPING IN THE FIELD AS REQUIRED.
- 12. ALL EXPOSED PIPING, PIPE HANGERS, SUPPORTS, ETC RUN THROUGH FINISHED SPACES AND AT EXTERIOR SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT.
- 13. CONTRACTOR SHALL PROVIDE VALVES, UNIONS, STOPS, CONNECTIONS AS REQUIRED TO ALL EQUIPMENT. PROVIDE VALVES ON INLET AND OUTLET SIDE OF ALL EQUIPMENT AND FIXTURES.
- 14. FURNISH AND INSTALL ACCESS PANELS WHERE VALVES, EQUIPMENT, ETC MAY BE CONCEALED OR INACCESSIBLE. ACCESS PANEL SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT. ACCESS PANELS IN RESTROOMS SHALL BE STAINLESS STEEL.
- 15. REFER TO ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT OF ALL PLUMBING FIXTURES.
- 16. SANITARY SEWER WASTE AND VENT LINES SHALL BE SOLID WALL SCHEDULE
- 17. BUILDING DOMESTIC WATER LINES SHALL BE TYPE L COPPER, INSULATED WITH 1" THICK FIBERGLASS OR RUBBERTEX INSULATION. SITE WATER PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC. WATER LINES LOOPED BELOW SLAB MAY BE TYPE K COPPER.
- 18. PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL MEET LA STATE PLUMBING CODE LEAD CONTENT REQUIREMENTS IN ACCORDANCE WITH LA LOW LEAD ACT.
- 19. FIRE CAULK ALL PENETRATIONS THROUGH RATED ASSEMBLIES TO MEET UL

THE CONTRACTOR MAY SCALE THESE DRAWINGS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, PLAN SCALE, AND SITE CONDITIONS BEFORE BIDDING AND DURING CONSTRUCTION.



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LAFAYETTE, LOUISIANA 70508 (337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 240042

USE AND INTERPRETATION OF THIS DRAWING . GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201, ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE 2. BI OSE OF THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED. 4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE 4. AS INSTROUBLENTS OF SERVICE, ALL DAYWINGS, SPECIFICATIONS AND COPTES THEREOF FUNDAMENTS HE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECT'S COPYRIGHT OR OTHER RESERVED RIGHTS.

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REVISIONS:

ADDENDUM No. 1

10/ 21/ 2024

ANDREA B. MANCEAUX License No. 39890 PROFESSIONAL ENGINEER

ME X DEP, ICE

SHEET TITLE

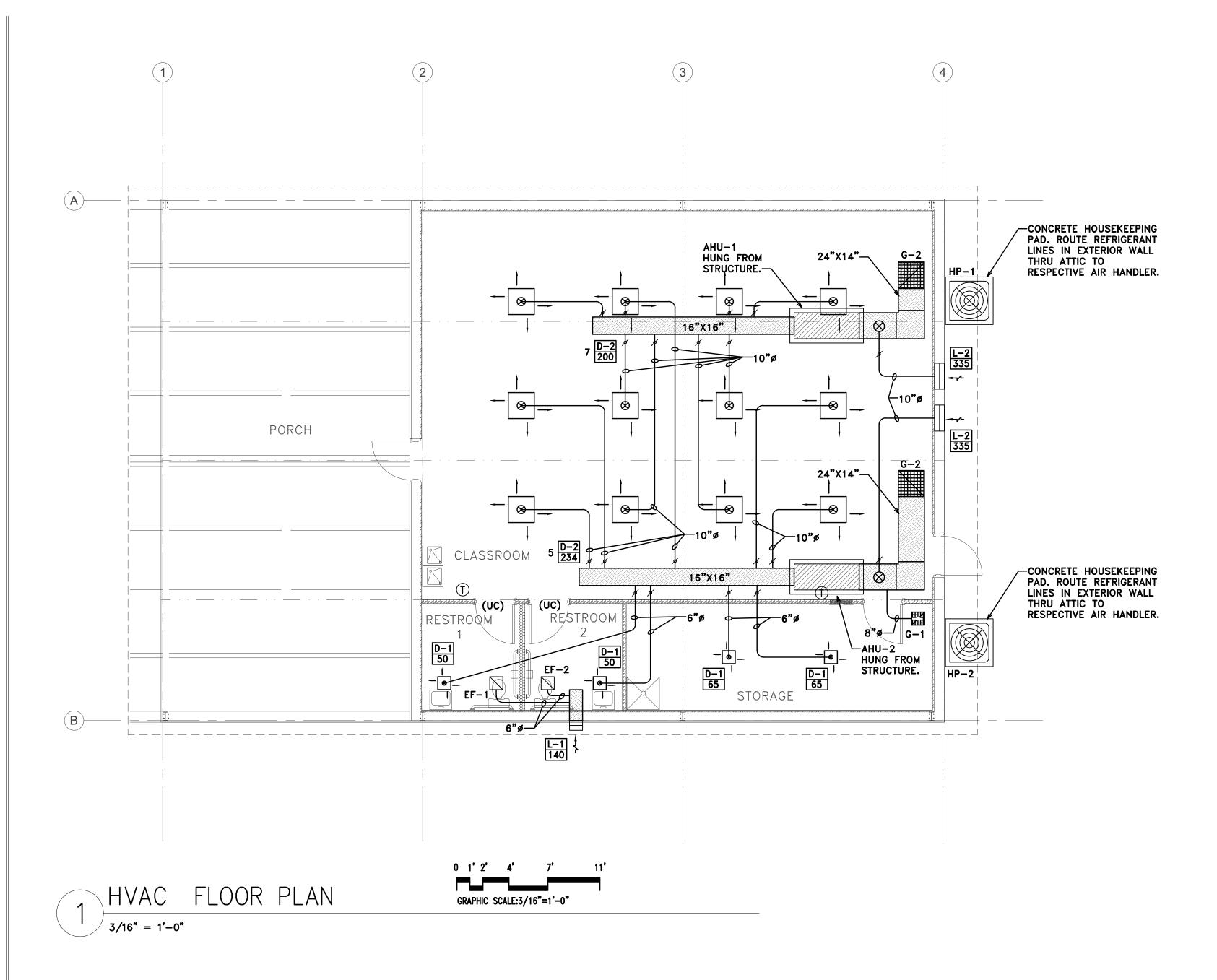
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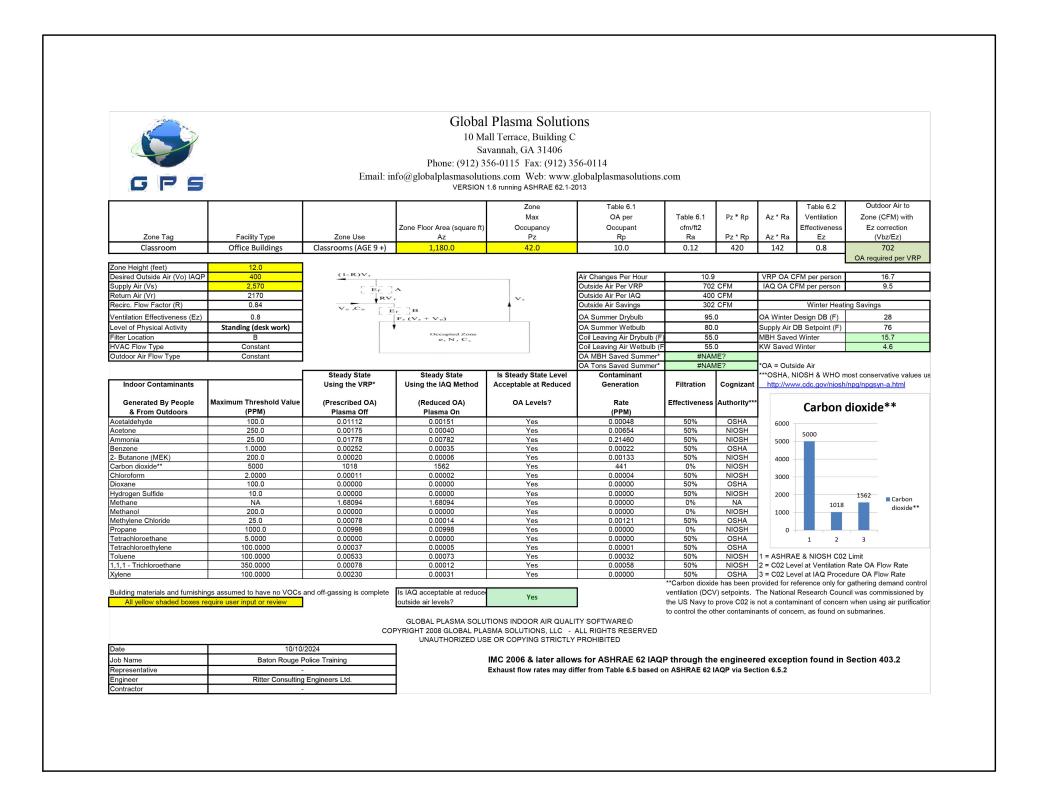
PLUMBING

PLAN

BBI Job No. <u>A24-005</u> 10/11/2024

SHEET





HVAC GENERAL NOTES:

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

- 1. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROUTING OF ALL DUCTWORK WITH THE STRUCTURE AND OTHER TRADES AS CONDITIONS ALLOW. RE-ROUTE DUCTWORK AS NECESSARY TO AVOID CONFLICT. TRANSITION UP/DOWN TO AVOID OTHER TRADES AS NECESSARY.
- 2. INSTALL AT EACH DUCT TAKEOFF AN ADJUSTABLE VOLUME DAMPER IN AN ACCESSIBLE LOCATION.
- 3. PROVIDE METAL STRAP HANGERS FOR ALL DUCTWORK AT MINIMUM 8 FT. INTERVALS.
- 4. CONTRACTOR SHALL COORDINATE SPACE REQUIREMENTS AND SERVICE CLEARANCES FOR ALL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS. NO EQUIPMENT SHALL BE BID ON (WHETHER OR NOT RECEIVING PRIOR APPROVAL) IF IT DOES NOT FIT IN SPACE PROVIDED.
- 5. HVAC CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT AABC, TABB OR NEBB CERTIFIED TEST AND BALANCE AGENCY. TAB AGENCY SHALL PERFORM AN INITIAL SMOKE/PRESSURE LEAK TEST ON ALL DUCTWORK ONCE ALL SHEET METAL DUCTWORK HAS BEEN INSTALLED. A FINAL BALANCE REPORT OF ALL HVAC SYSTEMS SHALL BE PROVIDED TO ARCHITECT/ENGINEER UPON COMPLETION OF PROJECT. ALL REPORTS SHALL MEET AABC/NEBB STANDARDS. REFER TO SPECIFICATIONS FOR COMPLETE TEST AND BALANCE REQUIREMENTS.
- 6. WHERE DUCTS ARE CROSSING EACH OTHER, CONTRACTOR SHALL ASSUME AN UPWARD AND DOWNWARD TRANSITION AS REQUIRED BETWEEN STRUCTURAL MEMBERS AS REQUIRED FOR AVAILABLE CEILING SPACE. NO EXTRA WILL BE GIVEN FOR THESE TRANSITIONS.
- 7. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DEVICES (THERMOSTATS, SENSORS, ETC.) WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION. MOUNT EACH THERMOSTAT AT A HEIGHT OF 48" AFF TO CENTER LINE OF CONTROLLER. THERMOSTATS SHALL BE PROGRAMMABLE AND SHALL HAVE TEMPERATURE AND HUMIDITY SETPOINT ADJUSTMENT. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 24V AND 120V CONTROL POWER INCLUDING CONTROL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF NEAREST AVAILABLE CIRCUIT FROM WHICH TO TAP CONTROL POWER.
- 8. ALL EQUIPMENT, DAMPERS, ETC, LOCATED ABOVE CEILING SHALL BE INSTALLED AT A HEIGHT ACCESSIBLE FOR BALANCING AND/OR SERVICE.
- 9. COORDINATE THE EXACT PLACEMENT OF ALL CEILING MOUNTED DIFFUSERS AND GRILLES WITH THE CEILING, LIGHTS AND ANY OTHER CEILING MOUNTED EQUIPMENT.
- 10. TRANSITION SUPPLY AND RETURN DUCTWORK TO FANS AND AIR HANDLING UNITS WITH SMOOTH TRANSITIONS PER SMACNA STANDARDS AS NECESSARY. DUCTWORK CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
- 11. COORDINATE FRESH AIR INLETS WITH EXHAUST OUTLETS AND PLUMBING VENTS TO MAINTAIN A 10'-0" MINIMUM SEPARATION.
- 12. ALL EXPOSED PIPING, DUCTS, HANGERS, SUPPORTS, ETC RUN THROUGH FINISHED SPACES OR EXPOSED AT EXTERIOR SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT.
- 13. FURNISH AND INSTALL ACCESS PANELS WHERE VALVES, DAMPERS, EQUIPMENT, ETC ARE CONCEALED OR INACCESSIBLE. ACCESS PANELS SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT.
- 14. PROVIDE ONE SET OF CLEAN FILTERS AT COMPLETION OF PROJECT PRIOR TO TURNING OVER TO OWNER. CONSTRUCTION FILTERS SHALL BE USED DURING DURATION OF PROJECT TO PROTECT DUCTWORK AND EQUIPMENT. DO NOT OPERATE EQUIPMENT UNLESS BUILDING HAS BEEN THOROUGHLY CLEANED.
- 15. ALL DUCTWORK DIMENSIONS ARE METAL TO METAL, UNLESS OTHERWISE NOTED.
- 16. COORDINATE ALL ROOF PENETRATIONS WITH ROOFING CONTRACTOR FOR A WATER TIGHT INSTALLATION.
- 17. ALL PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE CAULKED TO MAINTAIN UL LISTING. DUCTS PENETRATING RATED ASSEMBLIES SHALL BE FURNISHED WITH FIRE DAMPERS.

THE CONTRACTOR MAY SCALE THESE DRAWINGS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, PLAN SCALE, AND SITE CONDITIONS BEFORE BIDDING AND DURING CONSTRUCTION.



RCE PROJECT NO. 240042

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2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE

CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECT'S COPYRIGHT OR OTHER RESERVED RIGHTS.

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ADDENDUM No. 1

10/ 21/ 2024

SEAL



TON ROUGE POLICE DEPARTME TRAINING FACILITY

SHEET TITLE

HVAC

PLAN

BBI Job No. <u>A24—005</u> Date 1<u>0/11/202</u>4

Drawn By ABM

SHEET

N/ 2 /

AIR HANDLER NOTES:

1. FURNISH WITH PROGRAMMABLE WALL MOUNTED WIRED CONTROLLER/THERMOSTAT.

2. CONTRACTOR SHALL FURNISH TWO SETS OF FILTERS FOR USE DURING CONSTRUCTION AND TWO SETS OF FILTERS TO OWNER AT SUBSTANTIAL COMPLETION AS SPECIFIED. 3. ALL CONDENSATE DRAIN LINES FROM SPLIT SYSTEMS ROUTED TO MOP SINK, SEE PLUMBING.

4. AIR HANDLERS WITH FRESH AIR TO DUCT TO GABLE LOUVER. INTERLOCK MOTORIZED DAMPER IN FRESH AIR DUCT WITH RESPECTIVE COMPRESSOR OPERATION.

6. FURNISH AIR HANDLERS WITH GPS OR PLASMA AIR NEEDLEPOINT BIPOLAR IONIZATION (POWERED THROUGH AIR HANDLER) TO ACHIEVE FRESH AIR CFM CREDIT.

5. ALL AIR HANDLERS SHALL BE FURNISHED WITH DUCT SMOKE DETECTORS IN SUPPLY AND RETURN. INTERLOCK WITH FIRE ALARM. IF NO FIRE ALARM, PROVIDE AUDIBLE/VISUAL ALARM IN OCCUPED SPACE.

HEAT PUMP NOTES:

1. ALL UNITS SHALL BE INSTALLED WITH RUBBER VIBRATION ISOLATION PADS UNDER UNIT.

2. PROVIDE WITH LOW AMBIENT OPTION AND RAWAL VALVE. 3. COORDINATE ELECTRICAL SERVICE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

4. THE MANUFACTURER SHALL SIZE THE REFRIGERANT LINES FOR THE LENGTH AND CONDITIONS OF THE PROJECT. 5. INCLUDE ALL INTERLOCKS AND CONTROLS PER IECC 2021.

6. SET ALL OUTDOOR UNITS ON REINFORCED CONCRETE HOUSEKEEPING PAD.

| | | | | F, | AN SCH | EDULE | | | |
|------|---------|----------|-----------|------------|--------|-------|--------|-----------------------|-----------------------------|
| MARK | SERVICE | MIN. CFM | EXT. S.P. | MAX RPM | FAN HP | TYPE | DRIVE | ELECTRICAL SERVICE | REMARKS |
| EF-1 | RR | 70 | 0.125 | 800 | 1 / 6 | CENT | DIRECT | 120-1-60 | GREENHECK SP, COOK OR EQUAL |
| EF-2 | RR | 70 | 0.125 | 800 | 1 / 6 | CENT | DIRECT | 120-1-60 | GREENHECK SP, COOK OR EQUAL |
| | | | | | | | | | |

1. FURNISH ALL DIRECT DRIVE FANS WITH ECM MOTORS AND SPEED CONTROL (MOUNT AT FAN IN ACCESSIBLE LOCATION FOR BALANCING). 2. EXHAUST FANS SHALL BE CONTROLLED BY OCCUPANCY SENSOR. IF LIGHTS ON OCCUPANCY SENSOR, SAME SENSOR MAY BE USED FOR

| | | | GRIL | LE SCHEDU | LE | |
|--------|---------|-------------|----------|--------------------------|--------|---|
| SYMBOL | SIZE | SERVICE | LOCATION | CONSTRUCTION MATERIAL | FINISH | REMARKS |
| G-1 | 12"X12" | RETURN | CEILING | ALUMINUM | WHITE | TITUS 50F, PRICE, NAILOR OR EQUAL |
| G-2 | 24"X24" | RETURN | CEILING | ALUMINUM | WHITE | TITUS 50F, PRICE, NAILOR OR EQUAL |
| | | | | | | |
| L-1 | 12"X12" | OUTSIDE AIR | EXT WALL | ALUMINUM | KYNAR | RUSKIN HZ700, GREENHECK EHV901 AMCA 540 / 500 LISTED (MIN 0.28SF FREE AREA) |
| L-2 | 24"X12" | OUTSIDE AIR | EXT WALL | ALUMINUM | KYNAR | RUSKIN HZ700, GREENHECK EHV901 AMCA 540 / 500 LISTED (MIN 0.61SF FREE AREA) |
| | | | | | | |

1. ALL CEILING GRILLES SHALL BE FURNISHED WITH OPPOSED BLADE DAMPERS.

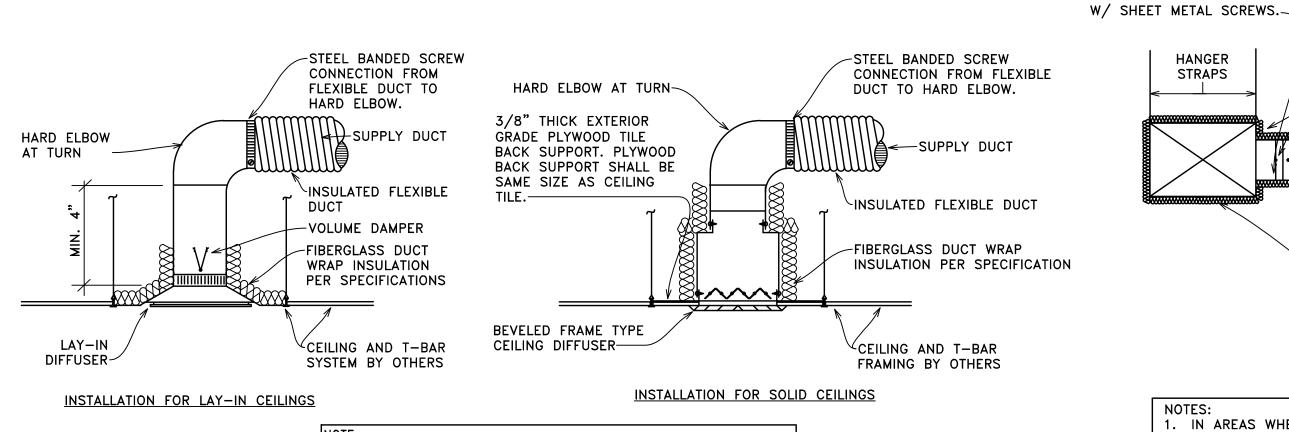
2. TRANSITION DUCTWORK TO FULL FACE OF LOUVER/GRILLE. 3. FRAME STYLE SHALL MATCH ADJACENT CONSTRUCTION.

4. LOUVER FINISHES SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD AND CUSTOM COLORS.

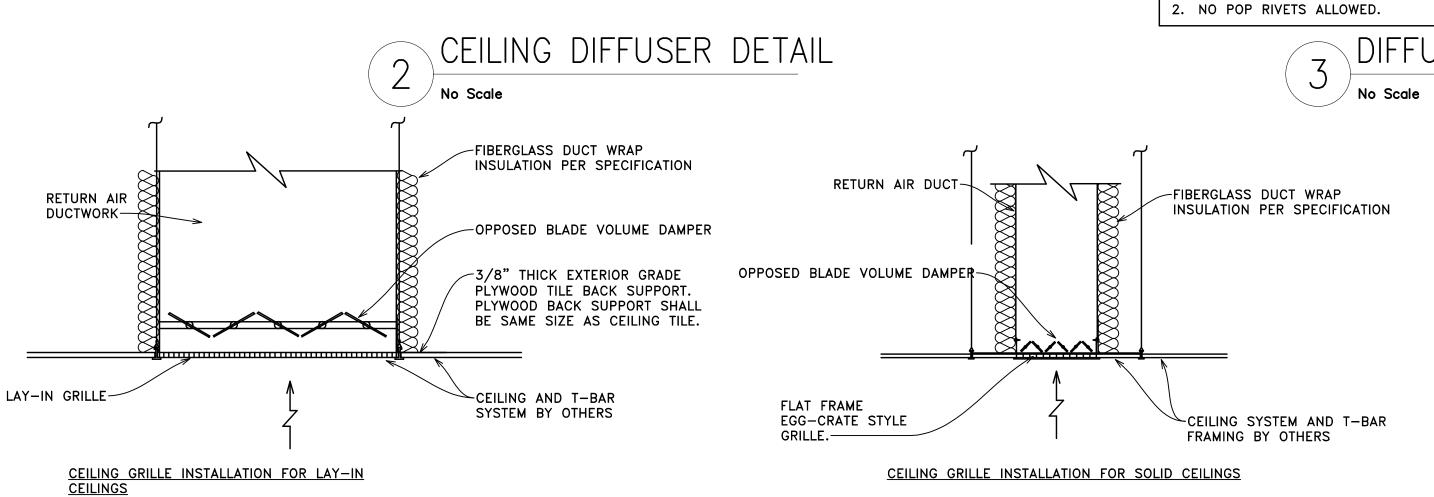
| | | | CEILING DIF | FUSER SC | HEDULE | | | |
|------|---------------|------|-------------|----------|--|--|--|--|
| MARK | SIZE MATERIAL | | FINISH | REMARKS | | | | |
| D-1 | 12"X12" | 6"ø | ALUMINUM | WHITE | TITUS TDC-AA WITH BEVELED FRAME, PRICE, NAILOR | | | |
| D-2 | 24"X24" | 10"ø | ALUMINUM | WHITE | TITUS TDC-AA, PRICE, NAILOR | | | |
| | | | | | | | | |

FURNISH AND INSTALL ALL DIFFUSERS WITH OPPOSED BLADE DAMPERS. BACK SIDE OF DIFFUSER SHALL BE INSULATED SAME AS DUCTWORK.

3. ALL DIFFUSERS ON PLANS SHALL BE FOUR WAY DIFFUSERS UNLESS OTHERWISE NOTED.

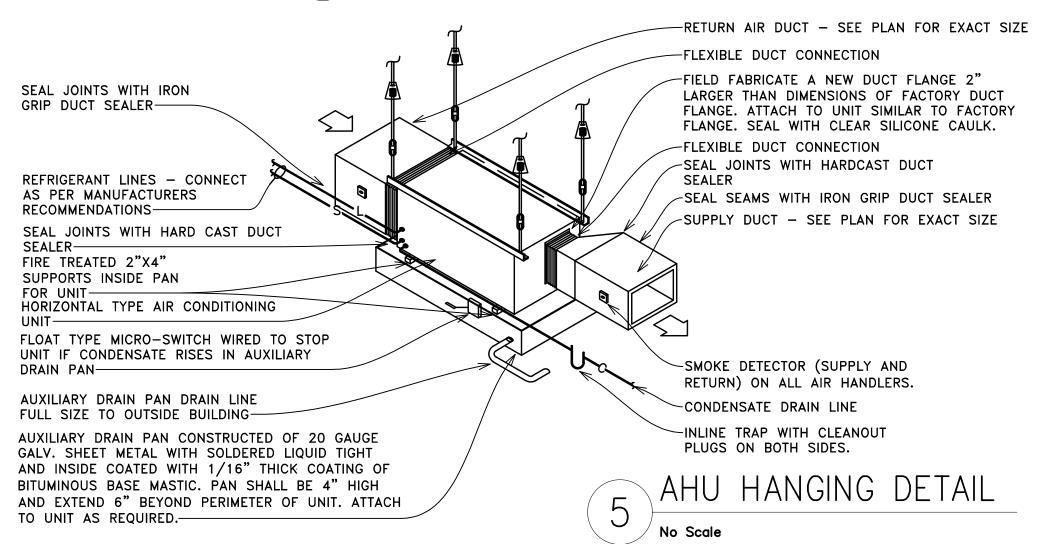


ALL OUTLETS SHALL BE MOUNTED TIGHT TO THE CEILING AND SHALL BE FURNISHED WITH A SUITABLE FRAME FOR THE TYPE OF CEILING USED.



ALL CEILING GRILLES SHALL BE MOUNTED TIGHT TO THE CEILING AND BE FURNISHED WITH SUITABLE FRAMES FOR TYPE OF CEILING USED.







An Architectural Corporation

1111 S. Foster Dr, Suite D

Baton Rouge, LA.

70806

(225) 761-5191 bbiusa.com

REVISIONS:

ADDENDUM No. 1

-WRAP ALL BRANCH DUCTS AND

COVER CONNECTIONS WITH DUCT

-STAINLESS STEEL SCREW DRIVER

TURN

-UL 181 LABELED INSULATED FLEX DUCT

SEE SPECS. NO SAGS OR SHARP 90°

TURNS ALLOWED EXCEPT AT DIFFUSER

CONNECTION. LIMIT RUN TO 5'-0" LONG

-HARD ELBOW AT

-ROUND TO RECTANGULAR

_DIRECTIONS FOR DIFFUSER

OR SQUARE ADAPTOR.

─PROVIDE 3/4" HAT

CHANNELS BOTH

SUPPORTS

-DIFFUSER

CEILING

WRAP. SEE SPECIFICATIONS.

-WIRE HANGER TO STRUCTURE

OPERATED BAND (TYP.)

-BALANCE DAMPER

W/LOCKING QUADRANT

~2" X 4" GA STRAP

_12" WIDE 24 GA

SPECIFICATIONS

-ROUND RIGID DUCT

-WRAP RECTANGULAR DUCT WITH

6'-0" IN LENGTH.

4. DO NOT LINE DUCTWORK.

FIBERGLASS DUCT INSULATION PER

DUCT RUNOUTS. MINIMUM OF TWO

SUPPORTS ON BRANCH DUCTS OVER

SHIELD

. IN AREAS WHERE FIRE DAMPERS ARE 3. PROVIDE SUPPORT ON ALL BRANCH

REQUIRED, PROVIDE DEEP ROUND TO

BUILD GYPSUM BOARD ENCLOSURE.

RECTANGULAR OR SQUARE ADAPTER AND

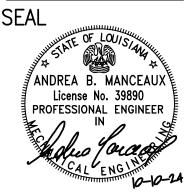
FASTEN RIGID DUCT TO

HIGH EFFICIENCY FITTING

HANGER

STRAPS

10/ 21/ 2024



SHEET TITLE

ROUGE

2014 W. PINHOOK RD SUITE 200 LAFAYETTE, LOUISIANA 70508

RCE PROJECT NO. 240042

USE AND INTERPRETATION OF THIS DRAWING

. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201, ARE PART

REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE

CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE

4. AS INSTROUBLENTS OF SERVICE, ALL DAYWINGS, SPECIFICATIONS AND COPTES THEREOF FUNDAMENTS HE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECT'S COPYRIGHT OR OTHER RESERVED RIGHTS.

REUSE OF THIS DRAWING IN ANY MANNER IS STRICTLY PROHIBITED WITHOUT THE WRITTEN APPROVAL OF RITTER CONSULTING ENGINEERS LTD.

WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDEADA, AND MODIFICATIONS LISUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS

(337) 984-8498 FAX (337) 984-8576

HVAC SCHEDULES & DETAILS

BBI Job No. <u>A24-005</u> 10/11/2024

SHEET

A. <u>DIVISION OF SPECIFICATIONS</u>

1. For Bidder's convenience only, this Division of the Specifications is divided into the following parts:

GENERAL PROVISIONS BASIC MATERIALS AND METHODS TESTING, ADJUSTING, AND BALANCING INSULATION

AIR CONDITIONING AIR DISTRIBUTION

TEMPERATURE CONTROLS

B. GENERAL CONDITIONS

The General Conditions of the Architectural Specifications along with supplementary conditions, special conditions, information to bidders, and any other pertinent information and documents shall apply the same as if repeated herein. The contractor shall review Division 1. Where the requirements of Division 1 and these specs conflict for the contractor, the most stringent shall be applied.

Mechanical(HVAC)/Plumbing subcontractors shall be the sole source responsible party to furnish and install the

mechanical/plumbing system. Mechanical/Plumbing contractors shall be properly licensed to perform this work. Wherever the word contractor is mentioned in these specifications, it is intended to mean the Mechanical/Plumbing Contractors as appropriate. It is the General contractor who bears the responsibility to fulfill this part of the project under the contract with the owner. The General Contractor shall be responsible for all costs associated with any and all bidding errors and omissions of the sub-contractor.

C. SCOPE OF WORK

1. Furnish labor, materials and equipment necessary to provide and install the complete mechanical/plumbing portion of this contract, including air conditioning, heating, and ventilating systems as called for herein and on accompanying drawings. Parts of the mechanical/plumbing division may be bid separately or in combination at the contractor's option; however, it shall be the responsibility of the General Contractor to assure himself that all items covered in the Mechanical/Plumbing Division have been included if he chooses to accept separate bids.

2. Contractor shall refer to the Mechanical, Architectural, Structural, Plumbing and Electrical drawings and install all equipment, piping, etc., to meet building and space requirements. No equipment shall be bid on or submitted for approval if it will not fit in

space provided or coordinated with other trades involved on the project.

It is the intention of these Specifications that all mechanical/plumbing systems shall be furnished complete with all necessary valves, controls, insulation, piping, devices, equipment, etc., necessary to provide a satisfactory installation in working order and in accordance with all Federal, State and Local codes and ordinances

4. Contractor shall visit the site and acquaint himself thoroughly with all existing facilities and conditions which would affect his portion of the work. Failure to do so shall not relieve the contractor from the responsibility of installing his work to meet

5. Lack of coordination shall not be acceptable and shall not be a reason for poorly installed work or additional cost to this trade or others on the project. All associated extra cost shall be borne by the contractor. The General Contractor shall be responsible for all costs, time and liquidated damages associated with lack of coordination or poor coordination.

D. CUTTING AND PATCHING

Initial cutting and patching shall be the responsibility of the General Contractor with the Mechanical/Plumbing Contractor responsible for laying out and marking any and all holes required for the reception of his work. No structural beams or joists shall be cut or thimbled without first receiving the approval of the Architect/Engineer. After initial surfacing has been done, any further cutting, patching and painting shall be done at this contractor's expense.

Cutting and patching shall be done in such a manner that the surrounding work will be restored to its original condition. The HVAC piping shall be run at proper slopes as to avoid conflict with other trades. It may be necessary to penetrate beams, grade beams, footings and foundations. Install thimbles as required and as approved by the Structural Engineer and

CODES AND STANDARDS The entire work shall comply with the rules and regulations of the City, Parish and State in which this project is being

be made without additional charge to the Owners. The Contractor shall report these changes to the Architect and secure his approval before work is started. In addition to the codes mentioned, all mechanical/plumbing work and equipment shall conform to the applicable portions of the following Specifications, codes and regulations:

constructed including the State Fire Marshal and State Board of Health. All modifications required by these authorities shall

a. American Society of Heating, Refrigeration and Air Conditioning Engineers

b. National Electric Code

c. National Fire Protection Association d. American Society of Mechanical Engineers

e. Underwriters' Laboratories International Building Code

g. International Energy Conservation Code h. International Plumbing Code with LA Amendments

International Mechanical Code SMACNA Guidelines

Materials, equipment and accessories installed under this contract shall conform to all rules, codes, etc., as recommended by National Associations governing the manufacturer, rating and testing of such materials, equipment and accessories.

Materials shall be new and of the best quality and first class in every respect. Where laws or local regulations provide that certain accessories such as gauges t installed on equipment, it shall be understood that such equipment be furnished complete with the necessary accessories

whether or not called for in these Specifications Material and equipment furnished or installed as part of these construction documents shall be installed and operated in strict accordance with the respective manufacturer's guidelines for installation and operating instructions. The manufacturer's guidelines shall become part of the construction documents.

F. MINOR DEVIATIONS

Plans and detail sketches are submitted to limit, explain and define conditions, specified requirements, pipe sizes and manner of erecting work. Structural or other conditions may require certain modifications from the manner of installation shown and such deviations are permissible and shall be made as required, but, specified sizes and requirements necessary for satisfactory operation shall remain unchanged. It may be necessary to shift ducts or pipes or to change the shape of ducts and these changes shall be made as required. All such changes shall be referred to the Architect/Engineer for approval before proceeding. Extra charges shall not be allowed for these changes.

No structural beams or joists (concrete or steel) shall be cut or thimbled without first receiving the approval of the Architect/Structural Engineer. After initial surfacing has been done, any further cutting, patching and painting shall be done at

the Mechanical Contractor's own expense. 3. Contractor shall realize that the drawings could delve into every step, sequence or operation necessary for the completion of the project without drawing on the contractor's experience or ingenuity. However, only typical details are shown on the plans. In cases where the contractor is not certain about the method of installation of his work, he shall ask for details. Lack of details shall not be an excuse for improper installation. Submit installation shop drawings with manufacturer's details for review prior to installation.

4. In general, the drawings are diagrammatic and the contractor shall install his work in a manner so that interferences between the various trades are avoided. In cases where interferences do occur, the Architect/Engineer is to state which equipment, piping, etc., is to be relocated regardless of which item was first installed.

G. <u>WORKMANSHIP</u>

Workmanship shall be of highest grade, highest quality and all construction shall be done according to the best practice of the trade. Work shall be completed to satisfaction of the Architect/Engineer.

H. <u>COORDINATION</u>

Coordinate work of the different trades to avoid interferences between plumbing, mechanical and all other work. All piping, ductwork, etc., shall be installed in lines as required to accomplish this end whether or not shown on the plans.

2. This contractor shall coordinate and confirm that all equipment requiring electric service will be adequately and properly serviced by Electrical Contractor. Any conflicts shall be brought to the attention of the Architect/Engineer prior to ordering the

3. This contractor shall coordinate the space clearances required for the HVAC ductwork with the structure, ceilings, lights, etc. In some cases, due to space limitations, it may be necessary to reroute piping or re-size ductwork to meet the conditions of

the project. Any rerouting or resizing required shall be part of this project and done without any additional cost to the Owner. DO NOT MAKE DUCTWORK WITHOUT COORDINATION. Avoid conflicts with other trades. 4. This contractor shall coordinate the installation of HVAC piping with all parts of the structural foundation system and structural building systems. Provide sleeves through grade beams or concrete beams at all conflicts. All points of penetration of

foundation shall be reviewed by the Architect/Engineer prior to rough-in. All sleeves shall be installed per instructions and

I. <u>REVIEW OF MATERIALS</u>

Whenever manufacturers or trade names are mentioned in these plans or Specifications, the words "or approved equivalent" shall be assumed to follow whether or not so stated. Alternate manufacturers/equipment shall be submitted to the Engineer of Record for approval. Only those items approved by the Engineer shall be accepted.

J. SHOP DRAWINGS

1. Drawings shall be presented in a clear and thorough manner.

2. Details shall be identified by reference to sheet detail, schedule or room numbers shown on contract and drawings.

Drawings shall contain the following information:

b. Number of the drawing or revision.

details of the structural engineer.

c. Name of project or facility. d. Name of contractor and subcontractor.

e. Clear identification of contents and location of work.

Preparation:

a. Clearly mark each copy to identify pertinent products or models.

. Show performance characteristics and capacities. Show dimensions and clearances required.

d. Show wiring or piping diagrams and controls. e. Show weights and mounting data.

5. Six (6) copies of each submittal shall be submitted to the Architect.

6. The Architect's/Engineer's review of shop drawings shall not relieve the contractor from the responsibility of incorrectly figured dimensions or any other errors that may be contained in these drawings. The omission from the shop drawings or specifications, even though approved by the Architect, shall not relieve the contractor from furnishing and erecting same.

K. REPAIRING ROADWAYS AND WALKS

1. Where this contractor cuts or breaks roadways or walks to lay the piping, he shall repair or replace these sections to meet the Architect's approval. Repair of public roadways and highways shall be done as per the Federal, State, or Local agencies having jurisdiction. Contractor shall obtain and pay for all permits.

Work materials shall be new and the best of their respective kinds, and shall bear the label of NFPA, ASME Code and UL where such standard has been established for the particular item of equipment used.

M. GROUNDS AND CHASES

Contractor shall see that all required chases, sleeves, grounds, holes and accessories necessary for the installation of his work are properly built in as the work progresses; otherwise he shall bear the cost of providing them.

N. MACHINERY GUARDS

1. Contractor shall provide v-belt guards for each v-belt drive or other hazardous drive. Guard shall enclose the drive entirely and shall have a hole for taking tachometer reading.

SPECIAL TOOLS

Special tools required for proper operation or maintenance of any equipment provided under this contract shall be delivered to

FILL AND CHARGES FOR EQUIPMENT

the Owner at the completion of the project.

Tags used outdoors shall be listed for such use.

maintain clean, dry air during construction.

1. Fill and charge with materials or chemicals all devices or equipment as required to comply with the manufacturer's guarantee or as required for proper operation of the equipment. This contractor shall flush systems as required per local and state jurisdictions and equipment/material manufacturer's guidelines (chlorination, chemical treatment, etc.).

EQUIPMENT IDENTIFICATION

1. Stenciling: All items of major mechanical equipment shall be neatly and clearly stenciled in letters not less than 1 inch high, with the same designation as appears on drawing. Location and color of such stenciling shall be appropriate for ready identification and/or as directed by the Architect. One set of compatible metal interlocking stencil letters and numbers shall be turned over to the Owner at the completion of the job. At contractor's option engraved plastic adhesive tags may be used.

R. <u>TEMPORARY USE OF EQUIPMENT</u>

The permanent equipment installation shall not be used for temporary purposes by the contractor for temporary conditioning of the building during construction. Contractor shall provide temporary dehumidification and drying equipment as required to

S. <u>CLEANING AND ADJUSTING</u>

1. Upon completion of his work, the contractor shall clean and adjust all equipment, controls, valves, etc. Clean all piping, ductwork, etc., and leave entire installation in good working order.

1. This contractor shall obtain the services of a painting sub-contractor as part of his contract with the General Contractor for all

2. General: Except for standard factory finishes, all pipe, pipe covering, ducts, equipment, supports, hangers, etc., exposed inside and outside building or in equipment room shall be painted. This contractor shall prepare surface of material to receive first coat of paint. All subsequent coatings shall be prepared by Painting Subcontractor. Requirements covering paints, workmanship and preparation of surfaces as stated in Architectural Specifications shall govern. Color coding shall be approved by Architect (submit color sample). All submittals for review shall be through Architect.

3. Damage: Where standard equipment factory finishes have been damaged or scratched, the damaged area shall be repaired or replaced by the contractor to match the original finish.

4. Preparation: Thoroughly clean surfaces of all rust, scale, cement, and dirt from all equipment, piping or other work installed and leave ready for finish painting.

5. All exposed piping shall be painted. Paint with two (2) coats of paint. The color shall be industry standard color coding. Submit color code chart with sample color chips to Architect for review prior to starting work.

1. Penetrations through rated construction shall be sealed with a material capable of preventing the passage of flames and hot gases when tested in accordance with ASTM-EB14. Refer to Architectural drawings for location of any rated walls.

2. Notify Architect for inspection of all completed fire and/or smoke barrier walls before any construction is installed that may conceal the firestopping material installation.

3. Access to random selected areas may be required by the architect at the time of final inspection should notification not be Provide detailed instructive cutsheets of fire penetration sealing system (firestopping) used to the architect at the time of

inspection. Random selective sampling by the contractor will be observed by the architect and State Fire Marshal.

V. NOISE VIBRATION

General: Take the utmost precautions in the installation of the equipment, piping, and duct systems to prevent noise and vibration transmission. Noise levels determined by octave band analysis with all components of the mechanical system operating and the building completely furnished shall not exceed NC-35 in operations and office areas, and shall not exceed NC-45 in equipment areas. Where equipment and installations do not meet these limits, the contractor must provided necessary attenuation to reduce net noise levels to the above requirements.

Isolation of equipment: Equipment that would tend to cause noise or vibration shall be isolated to prevent noise transmission to the building or to other equipment

3. Equipment Connections: Piping, conduit, or other connections to equipment shall be isolated. The contractor shall be responsible for the prevention of noise and vibration transmission through these connections to equipment.

1. Contractor shall obtain and pay for permits, fees, etc., for the installation, inspection, service connections, verifying location or construction of the work which are required by any authority and/or agencies having jurisdiction.

2. Contractor shall arrange and pay for inspections, examinations and tests required to obtain complete and final acceptance of all mechanical systems. Contractor shall deliver certificates of all such inspections to the Architect.

3. Contractor shall notify Architect and local governing authorities before any tests are made and tests are not to be drawn off a line covered or insulated until examined and approved by the authorities. In the event defects are found, these shall be corrected and the work shall be retested.

TRAINING OF MAINTENANCE PERSONNEL

1. Contractor shall provide on the job training for Owner's personnel upon completion of the work including testing and adjustment. Minimum 16 hours of onsite training shall include maintenance checks, lubrication of components, adjustment of control set points, and troubleshooting techniques of the air conditioning unit.

OPERATION AND MAINTENANCE INSTRUCTIONS

1. Provide Owner with four (4) copies of printed instructions indicating various pieces of equipment by name and model number complete with parts lists and maintenance and repair instructions. This information shall be bound in plastic covered notebooks. Submit the manuals to the Architect for approval. Include all warranty certificates or statements in a separate section of the manuals. Provide all materials and test certificates for the final inspection. Must be submitted no more than 90 days after system acceptance. Note: sooner requirements may apply, refer to all General Conditions.

1. Contractor shall guarantee all materials, equipment and workmanship for a period of one year from the date of final acceptance of the project. This guarantee shall include furnishing of all labor and material necessary to make any repairs, adjustments or replacement of any equipment, parts, etc., necessary to restore the project to first class condition. This guarantee shall exclude only the changing or cleaning of filters.

AA. <u>WARRANTIES</u>

Assemble warranties executed by each of the respective manufacturers, suppliers, and subcontractors into a warranty book and prepare a table of contents. Furnish a copy to owner for his records.

2. Provide complete information for each item including:

 a. Product and work item. b. Local supplying firm or manufacturer's dealer, with name of principal, address and telephone number. c. Scope of warranty.

d. Date of beginning of warranty.

e. Duration of warranty.

f. Provide information for Owner:) Proper procedure to evoke the warranty in case of failure.

2) Instances which might affect the validity of the warranty. g. Contractor, name of responsible principal, address and telephone number.

h. All contractors and manufacturers equipment warranties shall start at the acceptance of the project by the Owner. i. Provide owner with contact information for warranties which extend beyond one (1) year.

BB. <u>RECORD DRAWINGS</u>

Contractor shall maintain two sets of drawings of the original construction documents to utilize as markup sets to record field modifications from original construction documents. Once approval has been gained from the Architect, the contractor shall record these variances on the two sets in a neat and readable manner. Noted shall be sizes, locations, changes in directions etc. with distances dimensioned from columns, walls, inverts, etc. The maintenance and cost of these documents shall be the responsibility of the contractor. Provide all materials and test certificates for the final inspection. Must be submitted no more than 90 days after system acceptance. Note: sooner requirements may apply, refer to all Gen Conditions.

BASIC MATERIALS AND METHODS

GENERAL A. DESCRIPTION

1. Type of piping for various systems shall be as specified herein.

2. All pipe shall be true and straight without sags or traps.

II. MATERIALS

A. <u>EQUIPMENT DRAIN PIPING</u>

1. All equipment drain piping shall be government type "L" hard copper tube standard weight and thickness as made by Mueller, Chase, Anaconda or equivalent, unless indicated otherwise. Use Silfos 1000 degrees Fahrenheit solder on all joints.

2. Tubing shall be brought to the site with ends sealed.

B. SANITARY SEWER WASTE AND VENT LINES

1. Sanitary sewer waste and vent lines above and below slab and site piping shall be schedule 40 pvc with solvent weld joints (solid core only, do not use foam core or cell core).

DOMESTIC WATER PIPING/WATER HEATER RELIEF PIPING/TRAP PRIMER LINES

1. All domestic water lines and relief lines within building above slab shall be Type "L" hard copper water tube of standard weight and thickness. Use 95-5 "lead free" solder on all piping. Pro-Press or Press-Fit not allowed. Piping below grade and trap primer lines shall be Type "K" copper tubing hard or soft temper.

D. A/C CONDENSATE DRAIN PIPING

3. All A/C condensate drain piping shall be Type "L" hard copper pipe and fittings with soldered joints. Fittings shall be

E. <u>PIPE FITTINGS</u>

All pipe fittings shall be same as piping specified unless indicated otherwise.

2. Fittings for refrigerant piping and other copper lines shall be solder type wrought copper, Nibco or equivalent.

F. <u>PIPE SPECIALTIES</u>

compatible with pipe.

1. Dielectric unions shall be used between copper and iron pipe.

Flexible connectors: bronze hose.

G. PIPE HANGERS AND SUPPORTS

This contractor shall furnish and install all escutcheons, inserts, thimbles, hangers, etc., required for the proper support and installation of his equipment and piping. Cooperate with other trades in locating and placing these items.

Provide sleeves for all pipes passing through walls, floors, beams, etc. Sleeves passing through structural members shall be of cast iron or Schedule 40 steel pipe unless other material is approved by the structural engineer. Sleeves passing through nonstructural walls or floors shall be Schedule 10 galvanized iron. Joints between sleeves and pipes passing through floors shall be made watertight with plastic materials. Where pipes pass through floors shall be made watertight with plastic materials. Where pipes pass through waterproofing membrane, flashing sleeves shall be installed.

4. Provide malleable iron split ring hangers with rod supports throughout. Strap hangers or wire will not be accepted. Maximum spacing of hangers shall be 10 feet.

1. This contractor shall furnish and install all foundations and supports required for his equipment unless indicated otherwise on

5. Provide galvanized iron shields between hangers and pipe covering.

6. Provide chrome plated brass escutcheons wherever pipes pass through floors, walls or ceilings in exposed or finished areas. 7. All piping projecting from chases shall be rigidly supported in the wall or chase. Loosely supported piping or accessories will

H. MOTORS STARTERS AND ELECTRICAL WORK

1. The Mechanical Contractor shall furnish to Electrical Contractor for installation, all motor starters, start-stop push buttons and pilot lights for each piece of motor driven equipment unless shown otherwise.

2. The Electrical Contractor shall install all motor starters, start-stop push buttons and pilot lights as furnished by the Mechanical Contractor. The Electrical Contractor shall do all power wiring required for the installation of all mechanical equipment including equipment interlocking power wiring, etc. Temperature control wiring shall be furnished and installed by the Mechanical Contractor. All work shall be done in accordance with the National Electrical Code requirements and with wiring workmanship, etc., as called for in the Electrical Specifications. The Mechanical Contractor shall provide approved wiring diagrams of all equipment, controls, etc., to the Electrical Contractor for his installation. Coordinate all work to provide a complete system in working order. All wiring shall be plenum rated.

3. All electrical equipment shall have UL label or ETL label and shall meet the standards of the National Electrical Code and

4. Refer to electrical and mechanical sheets for duct detector requirements.

1. Furnish and install access panels where valves, dampers, etc., are concealed in walls, ceilings, floors or otherwise inaccessible. Panels shall be Milcor, Babcock, Larsen, MIFAB, Acudor, Nystrom or equivalent. All access panels shall be minimum 18 inches X 18 inches hinged with flush latch and lock. Panels shall be galvanized steel primed and painted color as selected by Architect. Frame flange shall be minimum 1-1/2 inches wide. Rated panels shall have U.L. rating for type wall

2. Access panels located in rated walls, floors, or ceilings shall be so rated and installed per manufacturer's recommendations to maintain rated integrity.

J. <u>VALVES</u>

Ball Valves for Plumbing: Pipe NPS 2 (DN 50) and Smaller:

1.1. One piece, brass ball valve. Two piece, brass ball valves with full port and brass trim.

Two piece, bronze ball valves with full port and bronze trim. 2. Check Valves for Plumbing: Pipe NPS 2 (DN 50) and Smaller: Bronze swing check valves, Class 125, bronze disc with

soldered or threaded end connections Gate Valves for Plumbing: Pipe NPS (DN 50) and Smaller: Bronze gate valves, Class 125, NRS with soldered or threaded

SLEEVES AND SLEEVE SEALS FOR PLUMBING

4. Wall penetrations below grade: sleeve and sleeve seal.

3. Grout: Non shrink, factory packaged.

Sleeve Seal Systems: Field assembled, modular sealing-element unit for filling annular space between piping and sleeve: sealing elements, pressure plates, connecting bolts and nuts. Sleeve-Seal Fittings: Manufactured plastic, sleeve-type, plastic or rubber waterstop assembly made for imbedding in concrete

L. <u>NOT USED</u>

I. GENERAL

TESTING, ADJUSTING AND BALANCING

A. RELATED DOCUMENTS 1. All Specification Sections, drawings, and general provisions of the contract apply to work of this section, as do other documents referred to in this section

B. SCOPE OF WORK

1. The Mechanical Contractor shall obtain the services of an independent test and balance company which specializes in the testing and balancing of heating, ventilating and air conditioning (HVAC) systems to test, adjust and balance all HVAC systems in the building(s). At Contractor's option, these services may be provided by the installing mechanical contractor on the project, however installing mechanical contractor shall follow the requirements of this specification and shall provide written test report in accordance with AABC standards.

Not used. Instruments used by Agency shall be accurately calibrated and maintained in good working order.

Not used. 5. The work included in this section consists of furnishing labor, instruments, and tools required in testing, adjusting and balancing the HVAC systems, as described in these Specifications or shown on accompanying drawings. Services shall include checking equipment performance, taking the specified measurements, and recording and reporting the results. Representatives of the test and balance company shall visit the job site to review the installation. After each site visit, the test and balance company shall report to the Architect any items that are not installed properly, are missing from the Contract Documents or items that are required to enable him to perform the testing and balancing of the HVAC systems as per normal

standard practice. After review, the contractor shall implement the recommendations at no additional cost to the Owner. Upon completion of the HVAC system installation, the test and balance company shall perform all testing and balancing with the full cooperation of the contractor and his subcontractors. The contractor shall make changes and/or adjustments to the HVAC system components that are required by the test and balance company to accomplish proper balancing. The TAB agency shall not supply or install any materials or balancing devices such as pulleys, drives, belts, etc. All of this work by the contractor shall be performed at no additional cost to the Owner.

The test and balance report shall be submitted for review by the Mechanical Engineer. After the Mechanical Engineer approves the testing and balancing report, the Test and Balance Company shall supply four copies of the final and complete report to the Architect for inclusion in the Operation and Maintenance Manuals.

C. The items requiring testing, adjusting, and balancing include (but are not restricted to) the following:

AIR SYSTEMS: Air Handling Units

Exhaust/Fresh Air Fans Zone Branch and Main Ducts Diffusers, Registers, Grilles and Dampers Coils (Air Temperatures)

Vibration Isolators Duct Smoke/Pressure Leak Testing

DEFINITIONS, REFERENCES, STANDARDS

1. All work shall be in accordance with the latest edition of the Associated Air Balance Council (AABC) National Standards or the latest standards of the National Environmental Balancing Bureau (NEBB). If these contract documents set forth more stringent requirements than the AABC National Standards or the NEBB Standards, these contract documents shall prevail.

QUALIFICATIONS

1. Agency Qualifications: The TAB agency shall be a current member of the AABC, NEBB or TABB.

TAB PREPARATION AND COORDINATION

1. Shop drawings, submittal data, up-to-date revisions, change orders, and other data required for planning, preparation, and execution of the TAB work shall be provided when available and no later than 30 days prior to the start of TAB work. System installation and equipment startup shall be witnessed by the TAB Agency. The TAB Agency's final Test and Balance

shall begin when all start-ups are complete. 3. The building control system (BCS) contractor shall provide and install the control system, including all temperature, pressure and humidity sensors. These shall be calibrated for accurate control. If applicable, the BCS contractor shall install all necessary computers and computer programs, and make these operational. Assistance shall be provided as required for reprogramming, coordination, and problem resolution. The BCS contractor shall provide necessary software to the TAB Agency at no additional cost. 4. All test points, balancing devices, identification tags, etc., shall be accessible and clear of insulation and other obstructions

that would impede TAB procedures Qualified installation or startup personnel shall be readily available for the operation and adjustment of the systems

Assistance shall be provided as required for coordination and problem resolution. 6. If, upon commencing the work, the TAB contractor finds that the systems are not ready, or if a dispute occurs as to the readiness of the systems, the TAB contractor may request an inspection to be made by the Designer's Mechanical Engineer. This inspection shall establish to the satisfaction of the represented parties whether or not the systems meet the basic requirements for testing and balancing. Items that are determined to be not ready for testing and balancing shall be completed by the Mechanical Contractor and placed in operational readiness before TAB services are again requested.

INSTRUMENTATION

<u>GENERAL</u>

accordance with the requirements of AABC or NEBB National Standards. EXECUTION

A. All instruments used for measurements shall be accurate and calibrated. Calibration and maintenance of all instruments shall be in

1. Mechanical Contractor shall put heating, ventilating, and cooling systems and equipment into full operation and continue their operation during each working day of testing and balancing. 2. The specified systems shall be reviewed and inspected for conformance to design documents. Testing, adjusting and

balancing on each identified system shall be performed. The accuracy of measurements shall be in accordance with AABC or NEBB National Standards. Adjustment tolerances shall be + or -10 percent unless otherwise stated. Equipment settings, including manual damper quadrant positions, valve indicators, fan speed control levers, and controls and devices shall be marked to show final settings.

All information necessary to complete a proper TAB project and report shall be per AABC or NEBB standards unless otherwise noted. The descriptions of work required, as listed in this section, are a guide to the minimum information needed. TAB contractor shall cut insulation, ductwork and piping for installation of test probes to the minimum extent necessary to allow adequate performance of procedures. Upon completion, patch insulation, ductwork and housings using materials identical to those removed. Seal insulation to reestablish integrity of the vapor barrier.

TAB work shall include additional inspection and adjustment of components during the season following the initial balance to

include re-balance of any items influenced by seasonal changes or as directed by the Owner.

 TESTING PROCEDURE Air Balance and Testing Agency shall perform the following tests and shall balance the system in accordance with the following requirements. Perform the following tests at high and low speeds of multi-speed systems and single speed system.

a. Verify all ductwork has been properly sealed and that no leakage is present. b. If ducted systems leak, do not continue with air balance. Report findings to Engineer in writing and begin testing again after Mechanical Contractor has repaired ducts or applied duct sealers. c. If ducted systems appear air tight, proceed with air balance procedure as outlined below

d. Include in air balance report a letter indicating smoke testing has been accomplished and a report of findings regarding airtightness of each ducted system. e. Maximum leakage loss shall not exceed 2 percent. If losses are greater, the Mechanical Contractor shall correct the leakage, then the test and balance agency shall retest the ductwork. f. Test and adjust blower rpm to design requirements.

 Test and record motor full load amperes Make Pitot Tube traverse of main supply and return ducts Test and record system static pressures, suction, and discharge Test and adjust system for design cfm air.

Test and record entering air temperatures (db heating and cooling).

Test and adjust system for design cfm outside air.

m. Test and record entering air temperatures (wb cooling).

n. Test and record leaving air temperatures (db heating and cooling). o. Test and record leaving air temperatures (wb cooling). p. Adjust main supply and return air ducts to proper design cfm. Adjust zones to proper design cfm, supply and return.

Test and adjust each diffuser and grille to within 10 percent of design requirements.

s. Identify each diffuser and grille to location and area. t. Identify and list size, type, and Manufacturer of diffusers, grilles and testing equipment. Use Manufacturer's rating on equipment to make required calculations. u. In readings and tests of diffusers and grilles and include required fpm velocity and test fpm velocity and required cfm and

v. In cooperation with Mechanical Contractor, set adjustments of automatically operated dampers to operate as specified,

w. Adjust diffusers and grilles to minimize drafts. x. Verify the calibration of temperature control devices, thermostats, etc. Verify all control sequences with specifications. z. Include manufacturer's performance data with reports

test cfm after adjustments

indicated, or noted.

2014 W. PINHOOK RD SUITE 200 LAFAYETTE, LOUISIANA 70508 (337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 240042

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2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT. THE OWNER REPRESENTS THAT HE

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1111 S. Foster Dr, Suite D Baton Rouge, LA. 70806

(225) 761-5191

bbiusa.com

REVISIONS:

ADDENDUM No. 1

10/ 21/ 2024

ANDREA B. MANCEAUX License No. 39890 PROFESSIONAL ENGINEER

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HVAC AND PLUMBING **SPECIFICATIONS**

BBI Job No. <u>A24-005</u>

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- 2. Where systems supplied to job site provides over 5 percent more air than schedule requirements, rooms supplied by that system shall have their supply air quantities increased by the ratio of the actual total air quantity supplied to the minimum air quantity required by the schedule.
- 3. The TAB agency shall verify that all ductwork, splitters, extractors, dampers, grilles and diffusers have been installed per design, are functional and set full open. Any leakage in the ductwork shall be repaired prior to the test. The TAB agency shall perform the following TAB procedures in accordance with the AABC National Standards or NEBB Standards:
- a. Exhaust/Fresh Air Fans

f. Control Systems:

1) Fan Speeds--Test and adjust fan RPM to achieve design cfm requirements. 2) Current and Voltage--Test and record motor voltage and amperage, and compare data with the nameplate limits to ensure fan motor is not in or above the service factor. 3) Pitot-Tube Traverse--Perform pitot-tube traverse of the main exhaust ducts to obtain total CFM. If a pitot-tube traverse is not practical, an explanation of why a traverse was not made must appear on the appropriate data sheet.

4) Static Pressure--Test and record system static pressure, including the static pressure profile of each exhaust fan.

- b. Zone, Branch, and Main Ducts 1) Adjust ducts to within design cfm requirements. As applicable, at least one zone balancing damper shall be completely open. Multi-diffuser branch ducts shall have at least one outlet or inlet volume damper completely open.
- c. Diffusers and Grilles 1) Tolerances--Test, adjust, and balance each diffuser, grille, and register to within 10 percent of design requirements.
- 2) Identification--Identify the type, location, and size of each grille, diffuser and register. This information shall be recorded on air outlet data sheets.
- 1) Air Temperature--Once air flow are set to acceptable limits, take wet bulb and dry bulb air temperatures on the entering and leaving side of each cooling coil. Dry bulb temperature shall be taken on the entering and leaving side of each heating coil. e. Split System Units (Indoor/Outdoor Sections):
- 1) Location, manufacturer, model number, serial number, and motor manufacturer. Required and test data with unit operating at full air flow conditions (all space thermostats calling for cooling) for each of following: total CFM, return and outside air CFM, total static pressure, suction and discharge static pressures across unit fan, HP, amperage, voltage, fan RPM, full load amps at outdoor conditions and refrigerant charge. Verify performance controls.
- 1) Verify all control sequences and calibration of all thermostats and sensors.

INSULATION

I. GENERAL

A. <u>DESCRIPTION</u>

1. Pipe insulation installation shall not begin until all work has been tested and found to be tight. All insulation shall be UL listed and have a flame spread of less than 25 and a developed smoke rating less than 50, ASTM E 84. All insulation shall be banded with aluminum bands, three per section. All insulation shall be continuous through walls, floors, ceilings, etc. 2. Field inspections by Contractor engaged agency.

II. MATERIALS

A. HORIZONTAL WASTE PIPING

All waste lines and traps above first floor slab which receive condensate from air conditioning equipment, shall be insulated with 2 inch thick, 3/4 pound density fiberglass insulation with aluminum foil vapor barrier or closed cell rubber insulation.

B. DOMESTIC WATER PIPING/CONDENSATE DRAIN PIPING

- 1. Insulate condensate drain piping with 1/2 inch thick closed cell rubber type insulation.
- 2. Insulate all water lines (hot and cold) with 1" thick closed cell rubber type insulation. All water lines exposed to weather shall

have additional smooth aluminum jacket and elbows.

C. <u>REFRIGERANT LINES</u> 1. Insulate all refrigerant suction lines with 1 inch thick closed cell rubber insulation. Apply two coats of black mastic where the

AIR CONDITIONING DUCTWORK

1. All ducts shall be externally wrapped with R-6 duct wrap with FSK jacket. Secure per manufacturer's installation instructions.

All pipe insulation shall be banded with nylon tie-wrap bands, three to a section, and with one band on each side of each

lines are exposed to the weather. Refrigerant piping below grade shall be installed in watertight PVC sleeve.

FLANGES, VALVES AND FITTINGS

All flanges, valves and fittings shall be insulated with fabricated fiberglass molded fitting insulation, using factory fabricated ittings up to 3 inches and fabricated mitered segments of pipe insulation equal in thickness to the insulation to the adjoining pipe. All fabricated mitered segments shall be covered with matching embossed vapor barrier laminate.

GENERAL

A. <u>DESCRIPTION</u>

- 1. The Air Conditioning System, in general, shall be for the entire building providing cooling and dehumidification in summer and heating in winter. A constant amount of fresh air shall be taken into the system and all air shall be filtered.
- 2. The General Contractor (Prime Contractor) who has the contracts with the Owner shall be responsible for installing the mechanical systems using qualified subcontractors and/or employees. Any incorrect or improper work shall be corrected by

B. <u>STANDARDS</u>

All air conditioning equipment shall comply with the requirements of applicable ARI standards and shall be tested, rated, labeled, and listed accordingly.

C. SPACE REQUIREMENTS

1. Refer to architectural, structural, plumbing and electrical drawings and install all equipment, piping, etc. to meet building and space requirements. No equipment shall be bid on or submitted for approval if it will not fit into the space provided or coordinate with other trades involved on the project.

D. COMPRESSOR WARRANTIES

- On all DX equipment, the manufacturer shall provide a minimum full 5 year material warranty for any and all compressor failures during the warranty period. Warranty period shall begin when the project is accepted by the Owner.
- 2. This warranty shall not include any equipment maintenance; all equipment maintenance is the responsibility of the Owner. The manufacturer shall have full access to the units during the construction period.

II. MATERIALS

A. <u>PIPING</u>

1. All piping shall be of materials as hereinbefore specified.

III. EXECUTION

A. <u>INSTALLATION</u>

1. Complete structural, mechanical, and electrical connections in accordance with manufacturer's installation instructions.

AIR DISTRIBUTION

GENERAL

- A. <u>GENERAL</u>
- 1. Furnish and install all ducts for Air Conditioning, Heating, and Ventilating Systems as shown on the plans and as may be required to provide complete system. Ductwork shall be complete with grilles, vanes, flashings, hangers, flexible connections splitters, manual dampers, fresh air inlets, louvers, reinforcing angles, etc. All ductwork shall be concealed and insulated as hereinafter specified.
- 2. Sleeve Seals for HVAC, Field assembled modular sealing element unit for filling annular space between piping and sleeve. Sealing elements: EPDM rubber. Connecting bolts and nuts: Carbon steel with corrosion resistant coating. Sleeve seal fittings: Manufactured plastic, sleeve type, plastic or rubber waterstop assembly made for imbedding in concrete slab or wall. Grout: Non shrink factory packaged. Sleeves shall be galvanized steel.

B. <u>COORDINATION</u>

The General Contractor and Mechanical Contractor shall coordinate the space clearances required for ductwork with the structure, ceilings, lights, etc. In some cases, due to space limitations, it may be necessary to re-size ductwork to meet the conditions of the project. Any re-sizing required shall be part of this project and done without any additional cost to the project. DO NOT MAKE DUCTWORK WITHOUT COORDINATION.

C. Sealing or flashing the building envelope due to penetrations in the building shall be the responsibility of the General Contractor.

II. MATERIALS

A. <u>DUCT HANGERS AND SUPPORTS</u>

0"-12"

13"-30"

31"-54"

55"-84"

1. All ductwork shall be properly braced to prevent rattling, breathing, or other unnecessary noise. No sharp edges or obstructions shall project into air stream.

LOW PRESSURE DUCTWORK

All ductwork shall be galvanized steel and shall be of gauges and construction as recommended by ASHRAE Guide and Data Book and SMACNA guidelines. Gauges are as follows with longest side governing. Concealed ductwork shall be rectangular, exposed duct shall be single wall spiral (paint grip).

Dimension of Low Pressure Ductwork longest side Sheet Metal Gauge

26 gauge

24 gauge

22 gauge

20 gauge

- Joints and reinforcing shall be as per ASHRAE Guide and Data Book and all slips shall be installed without edge of internal part of slip facing downstream
- 3. Construction standard of Article 110, of the National Board of Fire Underwriters Bulletin 90, latest edition, shall apply
- 4. Flashings shall be of sheet copper and shall be furnished and installed around all outside openings used for ducts of fans and
- wherever required. Roof flashings shall extend at least 8 inches above roof. 5. All ducts shall be straight and true and installed in a neat and workmanlike manner.
- All edges shall be straight and true and all bends shall be made with veined turns. Where long radius turns cannot be used, the contractor shall use square turns and use air splitters spaced not more than 3 inches center to center, and of a length so
- air will be properly distributed over ducts. 7. All ducts shown are metal to metal dimensions.
- 8. Mastic shall be applied to both male and female connections (all seams and joints) to make all duct joints air tight (applies to all ductwork; round or rectangular). Surplus mastic shall be removed. Tape and re-mastic joints if necessary. Mastic (hard-cast or equivalent duct sealer : tape not acceptable) shall be applied to the joints during assembly so that sealant is on

all mating surfaces of the joint.

- C. <u>DUCT ACCESSORIES</u> 1. Provide quadrant or adjustable splitters and mark shaft to give position of splitter damper in duct.
- 2. Provide vanes behind every supply grille or diffuser. Splitters shall be provided where shown on plans and where located in concealed non-accessible space provided Young Regulators to operate splitter. Vanes shall be Tuttle and Bailey "Ducturns", Barber-Coleman, Uniflo, or equivalent. Shop fabricated vanes will be acceptable. All dampers shall be constructed of 14 gauge steel.
- 3. Seismic Restraint Devices: Channel support system, Galvanized steel restraint cables, Hanger rod stiffener: steel tube or steel slotted support system sleeve with internally bolted connections to hanger rod.

D. <u>NOT USED</u>

PRE-INSULATED FLEXIBLE DUCT

1. Flexible duct shall be rated for a maximum pressure of 16 inches (4-10 inches I.D.) or 10 inches (12-16 inches I.D.) water column positive pressure and 2 inches water column maximum negative pressure and 6000 FPM maximum velocity and listed by Underwriters Laboratories, Inc. under UL Standard 181 as a Class 1 air duct complying with NFPA Standards 90A and 90B. Flexible air duct shall be factory-made and composed of an inner duct of woven and coated fiber glass fabric providing an air seal and permanently bonded to coated steel wire helix, a fiber glass insulating blanket with minimum R-6.0 value (minimum 2 inch thickness) and low permeability outer vapor barrier of fiberglass reinforced metalized film laminate. Maximum installed length shall not exceed 5 feet-0 inches without approval.

III. INSTALLATION

Ductwork shall be constructed and installed as follows:

- Straight and smooth on inside with joints neatly finished unless otherwise directed.
- Duct panels through 48 inch dimension having acoustic duct liner need not be crossbroken or beaded.
- Securely anchor ducts to building structure with specified duct hangers attached with screws. m. Brace and install ducts so they shall be free of vibration under all conditions of operation.
- n. Ducts shall not bear on the top of structural member. o. Make duct take-offs to branches, registers, grilles, and diffusers as detailed on Drawings.
- Properly flash where ducts protrude above roof.

. Crossbreak unlined ducts and duct panels larger than 48 inches or bead 12 inches on center.

- q. Install internal ends of slip joints in direction of flow. Make joints air tight using specified duct sealer.
- Install flexible duct connections to each air handling unit.
- Provide each take-off with an adjustable volume damper to balance that branch.
- a. Anchor dampers securely to duct.
- Install dampers in main ducts within insulation
- c. Dampers in branch ducts shall fit against sheet metal walls, bottom and top of duct, and be securely fastened. d. Where concealed ceiling damper regulators are installed, provide a cover plate.

4. Install grilles, registers, and diffusers. Duct Cleaning:

5.1. Clean new duct systems before testing, adjusting and balancing. Clean the following: air outlets and inlets, supply/return/exhaust fans, air handling units, coils and related components, supply/return air ducts, dampers, actuators

- 1. Permanently installed, consisting of curved metal blades or vanes arranged to permit air to make abrupt turn without appreciable turbulence, in elbows of supply and above ground return ductwork.
- 2. Air turns shall be quiet and free from vibration when system is in operation.

TEMPERATURE CONTROLS

GENERAL

A. GENERAL REQUIREMENTS

- 1. All control systems shall be furnished complete and functioning.
- 2. Coordinate all control work with the mechanical and electrical contractors. Contact the Test and Balance Contractor and notify them as to when controls work shall be installed. Test and Balance controller shall verify controls systems installation and

B. DESCRIPTION OF WORK

conduit.

1. Provide a complete system of (hard-wired) automatic controls (wireless unacceptable) as indicated herein. Control system shall consist of all thermostats, sensors, actuators, operators, wiring, switches, relays and control panels necessary to accomplish the control sequence specified herein.

C. RELATED WORK IN OTHER SECTIONS

- 1. For extent of power wiring and connection to mechanical equipment under Electrical Work, refer to Electrical Divisions.
- 2. For control devices furnished with equipment, refer to equipment specifications and schedules. Any controls equipment not specifically called for elsewhere shall be provided by Controls Contractor. All control wiring shall be done by Controls Contractor.
- 3. All power for control devices such as actuators, operators, fire/smoke dampers, control dampers, etc. shall be furnished, installed and wired by the Controls Contractor. Controls Contractor may use 24 VAC or 120 VAC for the control system. The controls contractor shall be responsible for obtaining the necessary power and pay all costs associated with obtaining power to controls and controls equipment.
- 4. All interior control wiring shall be installed in galvanized EMT conduit. The last 6 inches at connection to equipment shall be flexible metal conduit. All control wiring on exterior of building shall be in Seal-Tite conduit and/ or Liquid Tight flexible

5. All control wiring shall be furnished and installed by this contractor.

D. <u>SERVICE</u>

1. Installing Contractor (Mechanical Contractor or subcontractor under the Mechanical Contractors) shall maintain adequate automatic control personnel on his payroll to provide back-up project control service on the automatic control system provided under this contract.

E. <u>WARRANTY</u>

1. Contractor shall warranty all work performed under this contract to be free of any defects in workmanship or material for a period of one (1) year after final acceptance by the Owner's representative. The warranty and extended warranty shall include quarterly calibration and set-up checks of all controls. THIS WARRANTY DOES NOT START ON DATE THAT THE MECHANICAL EQUIPMENT IS STARTED.

SYSTEM RESPONSIBILITY

The entire control system shall be furnished by a single source manufacturer who shall be responsible for the entire system. The installation shall be by technicians employed by the controls system manufacturer.

II. PRODUCTS

A. FIRESTATS AND SMOKE DETECTORS

- Duct smoke detectors shall be furnished and installed in the return air section/duct of each unit to stop the fan and close the outside air dampers in the event of excessive temperature or smoke. Firestats to be provided in the return air units of all units over 600 cfm. Refer to electrical sections for information regarding duct smoke detectors.
- 2. Smoke detectors shall be addressable and compatible with the fire alarm system.
- 3. Where and when the building does not have a fire alarm system, provide a remote annunciator with remote reset for each

4. All smoke detectors shall have remote reset.

- 1. Factory mount and wire HVAC equipment controls. Mount electrical components in control box with removable cover. Provide clearance for access to controls (36 inch clearance).
- Provide terminal strip(s) for field wiring of thermostat, communications and power source. <u>DO NOT USE WIRE NUTS IN</u> JUNCTION BOX.
- 3. All wiring shall comply with local and national electric codes and the manufacturer's published installation manual.
- 4. Provide terminal strip(s) for field wiring of air conditioning unit input connections, duct temperature sensor, velocity sensor, communications, time clock, bypass damper motor and power wiring, etc. Do not use wire nuts on loose wire. All wire shall be in conduit, flexible conduit or wiring harness.

C. CONTROLLERS/THERMOSTATS

installed in the HVAC equipment.

Division of the Specifications.

- Controls shall be compatible with the equipment served.
- Temperature controls shall have setpoint overlap restrictions. Heat pump controls shall prevent supplemental electric resistance heat from coming on when not needed (where applicable).
- Thermostat controls shall have a 5 degree deadband. All controllers shall be programmable with setback controls. Setback capability to 55dF (heat) and 85dF (cool); 7-day clock 2-hr occupant override and 10-hour backup.

III. EXECUTION

- 1. The Electrical subcontractor shall be responsible for point to point wiring of all starters and starting switches not factory
- Install all components of control systems under this Section using experienced control mechanics, all in the regular employ of the Installing Contractor, or the apparatus manufacturer.

Install all control, pilot circuit and interlock wiring, including wiring through interposed safety or other auxiliary control devices within the confines of the mechanical equipment only. Wiring of thermostats shall be by the Mechanical Contractor. All wiring shall conform to the Local and National Electrical Codes.

- 2. All control and interlock wiring shall be fused at conductor capacity as shown in the National Electrical Code.
- 3. No splices will be allowed except at junction boxes and control centers.
- 4. All wires to each control device must be different colors. All wires to each device must be laced or tied at point of entry into control panel and tagged as to its point of origin.
- 5. All wires shall be run directly from controller or controlled device to control center. There shall be no looping of wires from one device to another external to the control centers.
- 6. Control voltage shall be a maximum of 120-volt, unless otherwise indicated herein.

13. Provide all necessary contactors, switches, transformers to accomplish operating sequences.

8. Refer to Electrical Division for extent of work under that Division. Provide other wiring systems required to accomplish the work of this Section, following requirements of the Electrical Division for products and execution.

7. Control or interlock wiring shall not be run in conduit with any power wiring other than that serving the equipment controlled

- 9. Wiring connection to terminal posts shall be made by means of compression type lugs. Wire splices shall be made with
- 10. Safety devices in motor control circuits shall be wired to interrupt the holding coil circuit regardless of the position of any selector switches in the circuit.
- 11. Control circuit conductors shall be sized for a maximum voltage drop of 10 percent of the circuit voltage. 12. All electrical power wiring shall conform in all respects with the provisions of the National Electrical Code and the Electrical

An Architectural Corporation

1111 S. Foster Dr,

Suite D

Baton Rouge, LA.

70806

(225) 761-5191

bbiusa.com

ADDENDUM No. 1

10/ 21/ 2024

REVISIONS:

ANDREA B. MANCEAUX License No. 39890

GE X

SHEET TITLE

HVAC AND PLUMBING 2014 W. PINHOOK RD SUITE 200 **SPECIFICATIONS** LAFAYETTE, LOUISIANA 70508

RCE PROJECT NO. 240042

(337) 984-8498 FAX (337) 984-8576

USE AND INTERPRETATION OF THIS DRAWING . GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201, ARE PAR OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING, THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTE EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

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Job No. <u>A24-005</u>

| A | BBREVIATIONS |
|---|--|
| @ A/C | AT AIR CONDITIONING |
| AFCI AMP | ARCH FAULT CIRCUIT INTERRUPTER AMPS/AMPERAGE |
| ABV CLG AC | ABOVÉ CEILING ABOVE COUNTER |
| AFF | ABOVE FINISHED FLOOR |
| AFG AIC | ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPACITY |
| AL | ALUMINUM |
| ARCH BD | ARCHITECT(URAL) BOARD |
| BKBD | BACKBOARD |
| BLDG C | BUILDING CONDUIT |
| CKT | CIRCUIT |
| CL CLG | CURRENT LIMITING CEILING |
| COND | CONDUCTOR |
| CB CT | CIRCUIT BREAKER CURRENT TRANSFORMER |
| CTV | CABLE TELEVISION |
| CU CWP | COPPER COLD WATER PIPE |
| DB | DIRECT BURIAL |
| DN DIST | DOWN DISTRIBUTION |
| DPDT | DOUBLE POLE - DOUBLE THROW |
| DPST (E) | DOUBLE POLE — SINGLE THROW EXISTING |
| ĒĀ | EACH |
| EC EGC | EMPTY CONDUIT EQUIPMENT GROUNDING CONDUCTOR |
| EM | EMERGENCY |
| EMS EMT | ENERGY MANAGEMENT SYSTEM ELECTRICAL METAL TUBING |
| EPA | EFFECTIVE PROJECTION AREA |
| EWC EXT | ELECTRIC WATER COOLER EXTERIOR |
| F | FUSE, FUSIBLE |
| FL FLA | FLOOR FULL LOAD AMPERES |
| FMC | FLEXIBLE METAL CONDUIT |
| FTL | FEED-THROUGH LUGS GROUNDING ELECTRODE CONDUCTOR. |
| G - | GROUNDING ELECTRODE CONDUCTOR, EQUIPMENT GROUNDING CONDUCTOR |
| GF, GFI, GFCI GFP | GROUND FAULT CURRENT INTERRUPTER GROUND FAULT PROTECTION |
| HP | HORSEPOWER |
| HVAC IG | HEATING/VENTILATION/AIR CONDITIONING ISOLATED GROUND |
| IMC | INTERMEDIATE METAL CONDUIT |
| J-BOX, JB kCMIL, KCM | JUNCTION BOX KILO CIRCULAR MILS |
| KVA KW | KILOVOLTAMPERES KILOWATT |
| LCP | LIGHTING CONTROL PANEL |
| LFMC LGT, LTG | LIQUIDTIGHT FLEXIBLE METAL CONDUIT LIGHTING |
| MAN | MANUFACTURER |
| MCB MECH | MAIN CIRCUIT BREAKER MECHANICAL |
| MEZZ | MEZZANINE |
| MLO MTD | MAIN LUGS ONLY MOUNTED |
| MTG HT | MOUNTING HEIGHT |
| N N-1 | NEUTRAL NEMA—1 |
| N-3R | NEMA-3R |
| | |
| NA | NOT APPLICABLE |
| NA NC NEC | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE |
| NA NC NEC NF NO | NOT APPLICABLE NORMALLY CLOSED |
| NA NC NEC NF NO NTS | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE |
| NA NC NEC NF NO NTS P | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN |
| NA NC NEC NF NO NTS P PF PH OR Ø | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON—FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB—FEED BREAKER |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SS SW | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SS SW SWBD | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCHBOARD |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SS SW SWBD TEL TV | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEPHONE |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SS SW SWBD TEL TV TYP | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SPST SS SW SWBD TEL TV TYP UG UNO | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SSS SW SWBD TEL TV TYP UG UNO V | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE VOLTAGE/VOLTS |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SSS SW SWBD TEL TV TYP UG UNO V VA W | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE VOLTAGE/VOLTS VOLT-AMPERE WIRE |
| NA NC NEC NF NO NTS P PF PH OR Ø PNL PT PVC R RGS RTG SCH SFB SN SPD SPDT SPST SPST SS SW SWBD TEL TV TYP UG UNO V | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE VOLTAGE/VOLTS VOLT-AMPERE WIRE |
| NA | NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NON-FUSED NORMALLY OPEN NOT TO SCALE POLE POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RACEWAY RIGID GALVANIZED STEEL RATING SCHEDULE SUB-FEED BREAKER SOLID NEUTRAL SURGE PROTECTIVE DEVICE SINGLE POLE — DOUBLE THROW SINGLE POLE — SINGLE THROW SINGLE POLE — SINGLE THROW SPECIAL SYSTEMS SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE VOLTAGE/VOLTS VOLT-AMPERE WIRE |

| SYMBOL | DESCRIPTION |
|-----------------------------------|--|
| | LUMINAIRE — SURFACE MOUNTED OR SUSPENDED LUMINAIRE — RECESSED IN CEILING |
| | LUMINAIRE — WALL OR BRACKET |
| | LUMINAIRE — RECESSED IN CEILING, SURFACE MOUNTED, OR SUSPENDED |
| | LUMINAIRE - EMERGENCY |
| | EXIT LIGHT CEILING MTD. ARROWS AS NOTED. SHADING DENOTES SIDE WITH FACE. |
| | EXIT LIGHT WALL MTD. ARROWS AS NOTED. SHADING DENOTES SIDE WITH FACE. EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS. |
| | |
| | EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS AND EXIT SIGN. |
| #○ _{FX,a} | "X" DENOTES LUMINAIRE TYPE PER SCHEDULE; "a" DENOTES SWITCH CONTROL (TYP. FOR ALL LUMINAIRES). NUMBER INDICATES BRANCH CIRCUIT. PROVIDE WIRING AS NECESSARY. |
| Sos | SWITCH WITH OCCUPANCY SENSOR, WALL MOUNT AT 48" UNLESS NOTED. |
| S _L v | TOGGLE SWITCH WITH 0-10V DIMMING CAPABILITY AT 48" UNLESS NOTED. |
| Sp | DIMMER SWITCH AT 48" UNLESS NOTED. DIMMER SHALL BE COMPATIBLE WITH FIXTURE(S) CONTROLLED. |
| S ₂ | TOGGLE SWITCH, DOUBLE POLE — SINGLE THROW. |
| S3 S4 | TOGGLE SWITCH, THREE—WAY AT 48" UNLESS NOTED. TOGGLE SWITCH, FOUR—WAY AT 48" UNLESS NOTED. |
| S# Sm | MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD ELEMENT |
| Sk | TOGGLE SWITCH, KEY OPERATOR AT 48" UNLESS NOTED. |
| Stm | TOGGLE SWITCH WITH DIGITAL TIMER AT 48" UNLESS NOTED. |
| S。 | TOGGLE SWITCH AT 48" UNLESS NOTED, SUBSCRIPT INDICATES DEVICE CONTROLLED. |
| 0 | OCCUPANCY SENSOR, CEILING MOUNT |
| P | PHOTOELECTRIC CONTROL |
| # 👄 | DUPLEX RECEPTACLE (20A, 125V, 3W, GROUNDING TYPE) AT 18" UNLESS NOTED. NUMBER INDICATES BRANC CIRCUIT. PROVIDE WIRING AS NECESSARY. |
| | |
| | SAME AS BUT WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER |
| EWC | SAME AS = BUT WEATHER PROTECTED WHILE—IN—USE. SAME AS = BUT CONCEALED BEHIND ELECTRIC WATER COOLER |
| | QUADRUPLEX RECEPTACLE AT 18" UNLESS NOTED. —(2 DUPLEX RECPT. WITH SINGLE COVER PLATE) |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | SPECIALTY RECEPTACLE AT 18" UNLESS NOTED, REFER TO NOTE FOR NEMA DESIGNATION. |
| TV ⊕ | DUPLEX RECEPTACLE FOR TV — REFER TO ELEVATIONS FOR MOUNTING HEIGHT |
| Р | PULL BOX |
| С | CONTACTOR |
| J | JUNCTION BOX |
| J | LIGHTING JUNCTION BOX. CONTRACTOR SHALL PROVIDE WIRING AND MAKE CONNECTIONS NECESSARY TO CONNECT EACH FIXTURE IN ROOM AREA. |
| \bigvee | DATA OUTLET AT 18" UNLESS NOTED - PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE |
| | ACCESSIBLE CLG. DATA OUTLET AT 18" UNLESS NOTED — PROVIDE RECESSED OUTLET BOX WITH QUAD RING AND 1"R STUBBED UP ABOVE ACCESSIBLE CLG. |
| | AV OUTLET AT MOUNTING HEIGHT PER ELEVATIONS — PROVIDE RECESSED OUTLET BOX WITH QUAD RING AND 1"R STUBBED UP ABOVE ACCESSIBLE CLG. |
| AC | ACCESS CONTROL — PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE ACCESSIBLE CLG. |
| DC | DOOR CONTACT - PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE ACCESSIBLE CLG. |
| | CAMERA - PROVIDE RECESSED OUTLET BOX W/ 1"R STUBBED UP ABOVE ACCESSIBLE CLG. |
| | PANELBOARD/DISTRIBUTION BOARD SURFACE MOUNTED OR RECESSED IN WALL |
| Т | TRANSFORMER |
| M | POWER METER |
| CT | CURRENT TRANSFORMER |
| | DISCONNECT OR SAFETY SWITCH 6-BUTTON LIGHTING CONTROL STATION AT 48" UNLESS NOTED. |
| | MOTOR |
| | NUMBER OF TICK MARKS INDICATES NUMBER OF CURRENT CARRYING CONDUCTORS (NOT INCLUDING EGC) |
| | RACEWAY TURN DOWN |
| o | RACEWAY TURN UP |
| HB1:2 | RACEWAY-HOMERUN CIRCUIT "2" TO PANEL "HB1" (ARROWS DENOTE CIRCUITS) |
| | RACEWAY ROUTED CONCEALED OVERHEAD OR IN WALLS |
| | RACEWAY ROUTED EXPOSED |
| | RACEWAY ROUTED IN OR UNDER FLOOR SLAB OR UNDERGROUND |
| <u> </u> | CIRCUIT CONTINUATION. CALL OUT TAG (NUMBER OF PLAN REFERENCED ON TOP AND NUMBER OF SHEET REFERENCED ON BOTTOM) |
| -7 | ELEVATION CALL OUT TAG (NUMBER OF PLAN REFERENCED ON TOP AND NUMBER OF SHEET REFERENCED ON BOTTOM) |
| - / - | RIGHT) |
| | REVISION NUMBER |
| 30A/15AF/3P,4W 250V/N-3R | DENOTES 30A SAFETY SWITCH/15A FUSE(S)/3 POLES,4 WIRE/250V RATED/NEMA-3R RATED ENCLOSURE. |
| AC | NEAR ANY ELECTRICAL DEVICE DENOTES ABOVE COUNTER TOP. |
| BC | NEAR ANY ELECTRICAL DEVICE DENOTES BELOW COUNTER TOP. |
| WP | NEAR ANY ELECTRICAL DEVICE DENOTES WEATHER-PROTECTED. |
| С | NEAR ANY ELECTRICAL DEVICE DENOTES CEILING MOUNTED. |
| 42", 36" | NEAR ANY ELECTRICAL DEVICE DENOTES WALL MOUNTING HEIGHT. MOUNTING HEIGHT IS TO BE CENTERLINE |

| SHEET NO. | SHEET TITLE | | ISS | SUE | |
|-----------|-----------------------------|---------------------------------|---------------------|-----|--|
| | | 10/10/24 CONSTRUCTION DOCUMENTS | 10/22/24 ADDENDUM 1 | | |
| E0.0 | SCHEDULES AND ABBREVIATIONS | | 0 | | |
| E0.1 | RISER AND SCHEDULES | • | • | | |
| E0.2 | GENERAL ELECTRICAL NOTES | • | | | |
| E1.0 | ELECTRICAL SITE | • | | | |
| E2.0 | CLASSROOM LIGHTING | • | | | |
| E3.0 | CLASSROOM POWER & SS | • | • | | |
| E3.1 | SIMULATOR ELECTRICAL | • | | | |



An Architectural Corporation

1111 South Foster Drive Suite D Baton Rouge, LA. 70806

T (225) 761-5191

REVISIONS:

10/22/24 ADDENDUM 1

BATON ROUGE POLICE DEPARMENT
TRAINING FACILITY

SHEET TITLE

SCHEDULES

AND

ABBREVIATIONS

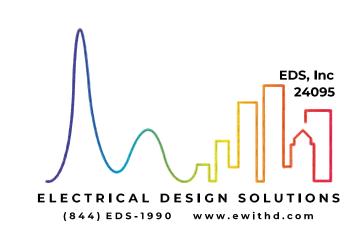
Job No. : <u>A24-005</u>

Drawn By : DAE

Checked By: RV

HEET

E0.0

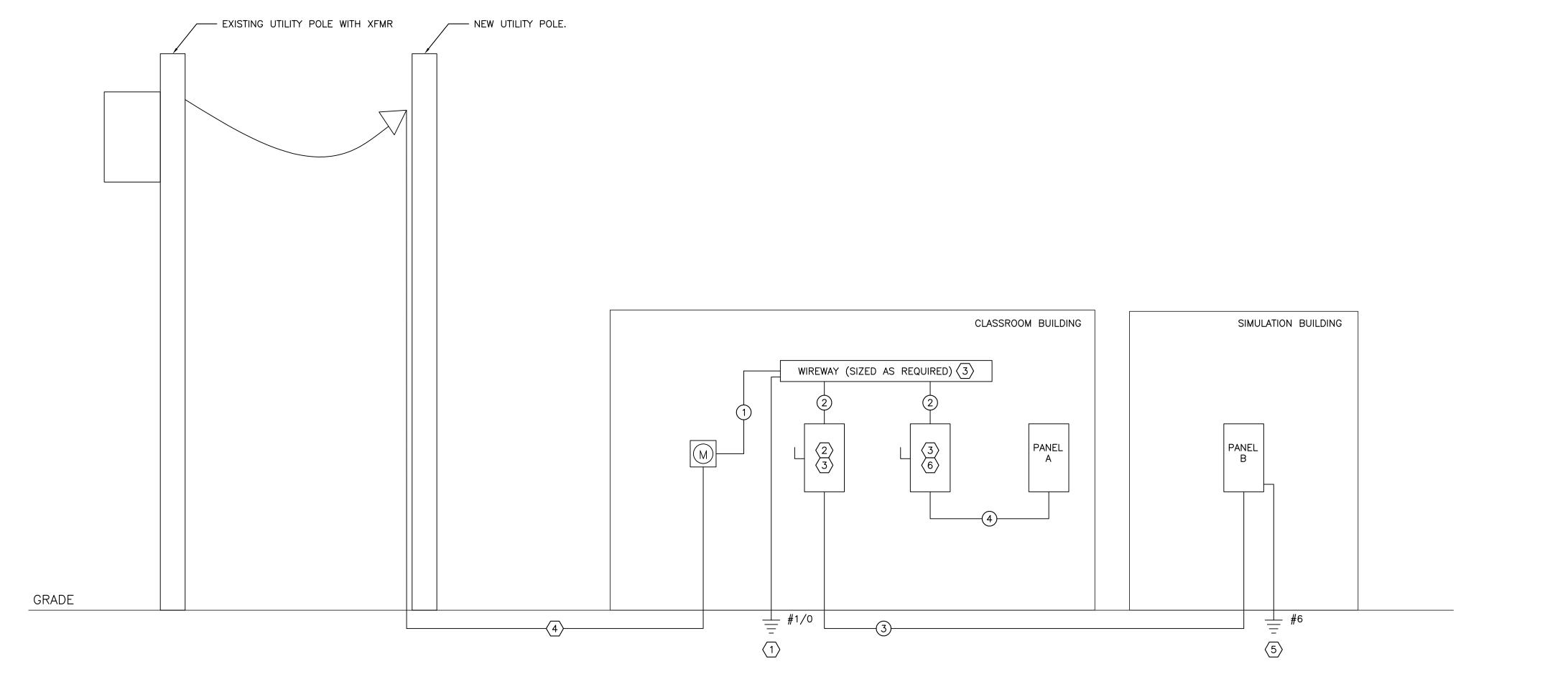


LUMINAIRE SCHEDULE (FINISH COLORS TO BE DETERMINED BY ARCHITECT)

| LABEL | MANUFACTURER | CATALOG NUMBER | MOUNTING | NOMINAL LUMEN OUTPUT | NOMINAL CCT | CRI | INPUT VOLTS / WATTS | DESCRIPTION |
|-------|--------------|--|-----------------------------|----------------------|----------------|------|------------------------|--|
| F1A | METALUX | 22GR-LD5-32-F1-UNV-L835-CD1 / DF-22W-U | RECESSED | >=3100 | 3500K | >=80 | 120V/ <=25W | 2' X 2', LENSED, LED TROFFER WITH DRYWALL FRAME KIT. |
| F1B | METALUX | 22GR-LD5-40-F1-UNV-L835-CD1 | RECESSED | >=4100 | 3500K | >=80 | 120V/ <=33W | 2' X 2', LENSED, LED TROFFER WITH 0-10V DIMMER DRIVER. |
| F2 | METALUX | UHBS-1218-MV-L84050 | PENDANT © 17'-8" AFF UNO | >=13000 | 4000K | >=80 | 120V/ <=82W | 13" DIAMETER, ROUND LED HIGH BAY WITH SELECTABLE CCT AND LUMEN; WET LOCATION LISTED. |
| F2E | METALUX | UHBS-1218-MV-L84050 / EBP-RM40R | PENDANT 9 17'-8" AFF UNO | >=13000 | 4000K | >=80 | 120V/ <=82W | 13" DIAMETER, ROUND LED HIGH BAY WITH SELECTABLE CCT AND LUMEN, WET LOCATION LISTED AND 40W EMERGENCY DRIVER. |
| F3 | TRACE-LITE | TLED112P-42-VS-4K | WALL © 12'-0" AFF UNO | >=2000 | 4000K | >=80 | 120V/ <=27W | LED WALL PACK; WET LOCATION LISTED. |
| F3E | TRACE-LITE | TLED112P-42-VS-4K-BB | WALL @ 12'-0" AFF UNO | >=2000 | 4000K | >=80 | 120V/ <=27W | LED WALL PACK WITH INTEGRAL EMERGENCY BATTERY PACK; WET LOCATION LISTED. |
| X1 | SURE-LITES | LPXC25 | PER PLANS | - | - | - | 120V / <=5W | SELF-POWERED, POLYCARBONATE, LED COMBINATION EXIT SIGN-EMERGENCY LUMINAIRE WITH NICKEL CADMIUM BATTERY, WHITE BACKGROUND, RED LETTERS, DUAL ADJUSTABLE HEADS, AND MINIMUM 25'-0" LIGHT THROW. PROVIDE FACES AND ARROWS AS PER PLANS. |
| Y1 | SURE-LITES | APEL | WALL © 7'-6" AFF UNO | - | _ | _ | 120V / <=5W | THERMOPLASTIC, SELF-POWERED, LED EMERGENCY LUMINAIRE WITH NICKEL CADMIUM BATTERY, AND DUAL ADJUSTABLE HEADS. |

| PANEL NAM | E: PANEL A | | MAINS | RATING: 25 | A0 | VOLTAGE RATING | S: 2 | 40/120 | | PANEL N | | IAME: | AME: PANEL B | | MAINS | RATING: 100 |)A | VOLTAGE RATING | 3: 240 / | 120 |
|-------------|----------------------|-------------------|----------|------------|-----------|----------------------|------------|---------------|----|----------|-------------|-------------------|----------------------|--------------------|----------|-------------|------|----------------------|-----------------|-----|
| MOUNTIN | G: SURFACE | PI | H BUS MA | TERIAL: CU | J / AL | ENCLOSURE TYPE | : | N-3R | | | MOUN | TING: | SURFACE | | PH BUS M | ATERIAL: CU | / AL | ENCLOSURE TYP | E: N- 3 | R |
| MAINS TYP | E: MLO | (| G BUS MA | TERIAL: CU | J | AIC RATING | 3: 1 | 10,000 | | Ν | MAINS TYPE: | | мсв | G BUS MATERIAL: CU | | | ١ | AIC RATING | 3: 10,0 | 00 |
| | | | | | | SUBFEED |): I | NONE | | | | | | | | | | SUBFEE | D: NO | NE |
| " CB TRIP | | LOAD | | | | | CP. | тыы | - | \vdash | " CB TRIP D | | | LOAD | | | | | CB TR | |
| # RTG (A) | P DESCRIPTION | PHAS | EΑ | PHASE | В | DESCRIPTION | CB TRI | | # | # RTG | | | DESCRIPTION | PHA | SE A | PHASE | В | DESCRIPTION | P RTG (A | |
| KTO (A) | DESCRIPTION | VA | | VA | | DESCRIPTION | | KTO (A) | | | I KIG (A) | $^{\prime\prime}$ | DESCRIPTION | \ | /A | VA | | DESCRIPTION | 1110 (/ | ') |
| 1 20 | 1 REC - CLASSRM | 720 | 825 | | | LTG - INTERIOR 1 | 1 2 | 20 2 | | 1 | 20 | 1 | REC - CAT WALK (1) | 720 | 1352 | | | LTG - INTERIOR NORTH | 1 20 | 2 |
| 3 20 | 1 REC - CLASSRM | | | 900 | 281 | LTG - EXTERIOR 1 | 1 2 | 20 4 | | 3 | 20 | 1 | REC - CAT WALK (1) | | | 720 | 758 | LTG - INTERIOR SOUTH | 1 20 | 4 |
| 5 20 | 1 REC - RR | 360 | 8328 | | | AHU-1 2 | , , | 90 | | 5 | 20 | 1 | FAN 1 | 696 | 135 | | | LTG - EXTERIOR NORTH | 1 20 | 6 |
| 7 20 | 1 REC - EXTERIOR | | | 720 | 8328 | A110-11 2 | ١ ١ | 90 | | 7 | 20 | 1 | FAN 2 | | | 696 | 162 | LTG - EXTERIOR SOUTH | 1 20 | 8 |
| 9 20 | 1 REC - STORAGE | 900 | 8328 | | | AHU-2 2 | , , | 90 | 0 | 9 | 20 | 1 | FAN 3 | 1000 | 0 | | | SPACE | | 10 |
| 11 20 | 1 FAN 1 | | | 696 | 8328 | A110-2 2 | AHU-2 2 90 | | 2 | 11 | 20 | 1 | EWC | | | 1000 | | SPACE | | 12 |
| 13 20 | 1 FAN 2 | 696 3120 500 3120 | | HP-1 2 | HP-1 2 30 | | 4 | 13 | 20 | | EF-1 | 40 | | | | SPACE | | 14 | | |
| 15 20 | 1 REC - IT | | | 2 | | 16 | | 15 | 5 | | SPACE | | | | | SPACE | | 16 | | |
| 17 20 | 1 REC - IT | 500 | 3120 | | | HP-2 2 | , | 30 | 8 | 17 | | | SPACE | | | | | SPACE | | 18 |
| 19 30 | 2 EWH | | | 2250 | 3120 | 111 -2 2 | <u> </u> | - 2 | 0 | 19 | | | SPACE | | | | | SPACE | | 20 |
| 21 | | 2250 | | | | SPACE | | $\overline{}$ | 2 | 21 | | - | SPACE | | | | | SPACE | | 22 |
| 23 20 | 1 RP-1 | | | 100 | | SPACE | | | 4 | 23 | 3 | | SPARE | | | | | SPACE | | 24 |
| 25 20 | 1 FLOODSAFE KIT | 600 | | | | SPACE | | - 2 | 6 | \perp | | | TOTAL CONNECTED V | | 943 | 3336 | | PANEL GENERAL NOTES: | | |
| 27 | SPACE | | | | | SPACE | | | 8 | \perp | | | TOTAL CONNECTED | | 3 | | | | | |
| 29 | SPACE | | | | | SPACE | | (| 0 | \vdash | | | TOTAL DIVERSIFIED V | | 71 | | | | | |
| | TOTAL CONNECTED VA | 2974 | | 28343 | 3 | PANEL GENERAL NOTES: | | | | \vdash | | | TOTAL DIVERSIFIED | A | 3 | 5 | | | | |
| | TOTAL CONNECTED A | | 279 | | | | | | | | RCUIT N | | | | | | | | | |
| | TOTAL DIVERSIFIED VA | | 4588 | | | | | | | 1.7 | - | IDE G | FCI CIRCUIT BREAKER. | | | | | | | |
| | TOTAL DIVERSIFIED A | | 221 | | | | | | _ | (2) | | | | | | | | | | |
| CIRCUIT NOT | ES | | | | | | | | _ | (3) | | | | | | | | | | |
| (1) | | | | | | | | | _ | (4) | | | | | | | | | | |
| (2) | | | | | | | | | _ | | | | | | | | | | | |

| P | ANEL NAN | ΛE: | PANEL B | | MAINS | RATING: | 100A | VOLTAGE RATIN | IG: | 240/12 | 20 |
|-----|-----------|-----|----------------------|------|----------|----------|---------|----------------------|-----|---------|----|
| | MOUNTIN | IG: | SURFACE | Р | H BUS M | ATERIAL: | CU / AL | ENCLOSURE TYP | E: | N-3R | |
| Ν | MAINS TYF | PE: | мсв | | G BUS MA | ATERIAL: | CU | AIC RATIN | IG: | 10,00 | 0 |
| | | | | | | | | SUBFEE | D: | NONE | |
| | | Г | Π | | LO | AD | | | | Π | г |
| # | CB TRIP | Р | | PHAS | | PHAS | SE B | | Р | RTG (A) | # |
| | RTG (A) | ľ | DESCRIPTION | VA | | V | | DESCRIPTION | | | " |
| 1 | 20 | 1 | REC - CAT WALK (1) | 720 | 1352 | | | LTG - INTERIOR NORTH | 1 | | 2 |
| 3 | 20 | 1 | REC - CAT WALK (1) | | | 720 | 758 | LTG - INTERIOR SOUTH | 1 | 20 | 4 |
| 5 | 20 | 1 | FAN 1 | 696 | 135 | | | LTG - EXTERIOR NORTH | 1 | 20 | 6 |
| 7 | 20 | 1 | FAN 2 | | | 696 | 162 | LTG - EXTERIOR SOUTH | 1 | 20 | 8 |
| 9 | 20 | 1 | FAN 3 | 1000 | 0 | | | SPACE | | | 10 |
| 11 | 20 | 1 | EWC | | | 1000 | | SPACE | | | 12 |
| 13 | 20 | 1 | EF-1 | 40 | | | | SPACE | | | 14 |
| 15 | | | SPACE | | | | | SPACE | | | 16 |
| 17 | | L | SPACE | | | | | SPACE | | | 18 |
| 19 | | L | SPACE | | | | | SPACE | | | 20 |
| 21 | | L | SPACE | | | | | SPACE | | | 22 |
| 23 | | | SPARE | | | | | SPACE | | | 24 |
| | | | TOTAL CONNECTED VA | 394 | - | 33 | 36 | PANEL GENERAL NOTES: | | | |
| | | | TOTAL CONNECTED A | | 35 | _ | | | | | |
| | | | TOTAL DIVERSIFIED VA | | 71 | | | | | | |
| | | | TOTAL DIVERSIFIED A | | 3 | 5 | | | | | |
| | CUIT NO | | | | | | | | | | |
| ٠./ | PROVIDE | G | FCI CIRCUIT BREAKER. | | | | | | | | |
| (2) | | | | | | | | | | | |
| (3) | | | | | | | | | | | |
| (4) | | | | | | | | | | | |



GENERAL NOTES:

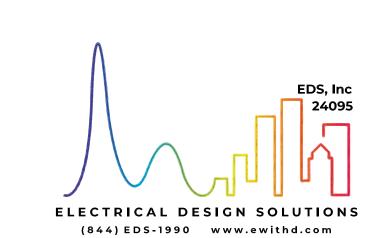
 PROVIDE PULL BOXES AS PER MANUFACTURER'S RECOMMENDATIONS TO MEET MANUFACTURER REQUIREMENTS FOR MAXIMUM PULL LENGTHS.

SPECIFIC NOTES:

- MAIN SERVICE GROUND. PROVIDE COPPER GROUND, SIZED AS SHOWN, PER NEC 250.52.
- 2 100A/100AF/2P,3W/240V/N-3R SERVICE RATED DISCONNECT SWITCH. FUSES SHALL BE BUSSMANN LPN-RK-100SP.
- 3 PROVIDE NEUTRAL TO GROUND BONDING PER NEC 250.
- (4) COORDINATE WITH UTILITY TO PROVIDE RACEWAY AND/OR WIRING PER THEIR REQUIREMENTS.
- 5 PROVIDE GROUNDING, SIZED AS SHOWN, FOR A STRUCTURE BEING SUPPLIED BE A FEEDER FROM A SEPARATE STRUCTURE PER NEC 250.32.
- 6 400A/250AF/2P,3W/240V/N-3R SERVICE RATED DISCONNECT SWITCH. FUSES SHALL BE BUSSMANN LPN-RK-250SP.

FEEDERS

- 1) 2 SETS OF [3 #3/0 & 1 #1/0(G) IN 2"R.]
- 2) 3 #1 & 1 #1/0(G) IN 1-1/2"R.
- 3 3 #1 & 1 #8(G) IN 1-1/2"R.
- 4 3 #250MCM & 1 #4(G) IN 2-1/2"R.



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REVISIONS: 10/22/24 ADDENDUM 1

SHEET TITLE

RISER AND SCHEDULES

: <u>A24-005</u>

Drawn By : DAE

Checked By: RV

GENERAL ELECTRICAL NOTES:

GENERAL

- 1. THE WORD "PROVIDE", RELATIVE TO ELECTRICAL WORK, SHALL HEREAFTER BE INTERPRETED AS "FURNISH, INSTALL AND CONNECT".
- 2. THE "GENERAL CONDITIONS OF THE CONTRACT" CURRENT EDITION PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL BE PART OF THIS CONTRACT.
- 3. UNLESS NOTED OTHERWISE, ALL EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND A MANUFACTURER'S DOCUMENT SHALL ACCOMPANY EACH MAJOR COMPONENT. PROVIDE EQUIPMENT MANUFACTURER'S LETTER OF WARRANTY.
- 4. CONTRACTOR SHALL PROVIDE COMPLETE AND WORKABLE SYSTEMS. ELECTRICAL DRAWINGS SERVE AS WORKING DRAWINGS FOR GENERAL LAYOUT OF VARIOUS ITEMS OF EQUIPMENT; HOWEVER, LAYOUT OF THE EQUIPMENT, ACCESSORIES, SPECIALTIES, DEVICES, AND OTHER TRADES ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. ELECTRICAL DRAWINGS DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM.
- 5. THE WORK COVERED BY THE CONSTRUCTION DOCUMENTS AND THE PROJECT SPECIFICATIONS CONSISTS OF FURNISHING THE LABOR, MATERIAL, AND EQUIPMENT IN PERFORMING THE OPERATIONS NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS. ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH IS BELONGING TO OR NECESSARY FOR THE SATISFACTORY COMPLETION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED. THE WORK COVERED UNDER THESE DOCUMENTS AND SPECIFICATIONS SHALL BE COORDINATED WITH THE REQUIREMENTS OF THE OTHER DIVISIONS AND WITH THE DRAWINGS FOR THE ENTIRE PROJECT. THE WORK SHALL BE ACCOMPLISHED ON SUCH A SCHEDULE AND IN SUCH A MANNER AS TO NOT DELAY OR INTERFERE WITH OTHER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE ELECTRICAL EQUIPMENT AND MATERIALS AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS. REFER TO THE PROJECT SPECIFICATIONS FOR SUBMITTAL AND SHOP DRAWING REQUIREMENTS.
- 6. WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE CURRENT NATIONAL ELECTRIC CODE AND STATE AND LOCAL CODES THAT APPLY.
- 7. THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES, AND PAY FEES AS REQUIRED TO PERFORM THE PROJECT ELECTRICAL WORK.
- 8. BIDDERS SHALL BE REQUIRED TO VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS SURROUNDING THE PROJECT PRIOR TO BIDDING.
- 9. THE CONTRACTOR SHALL TOUCH-UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT OR INSTALLATION.
- 10. THE CONTRACTOR SHALL BE A LICENSED ELECTRICIAN OF THE STATE IN WHICH THE WORK IS TO BE PERFORMED.
- 11. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS CAUSED BY THE CONTRACTOR AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT AND COMPONENTS.
- 12. ELECTRICAL EQUIPMENT SHALL BE SPECIFICATION GRADE, UNLESS NOTED OTHERWISE.
- 13. ELECTRICAL ROOM/AREA EQUIPMENT LAYOUT IS CONCEPTUAL AND IS BASED ON DIMENSIONS OF INDUSTRY STANDARD EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE EQUIPMENT LAYOUT PER NEC ARTICLE 110 AND SIZED TO MEET THE ROOM DIMENSIONS. ELECTRICAL CONTRACTOR SHALL ADJUST THE EQUIPMENT LAYOUT IN THE FIELD AS NEEDED PER THE SUCCESSFUL MANUFACTURER'S EQUIPMENT DIMENSIONS (TYPICAL FOR ALL ELECTRICAL EQUIPMENT ROOMS). PRIOR TO ROUGH—IN AND RACEWAY INSTALLATION, ELECTRICAL CONTRACTOR SHALL SUBMIT DIMENSIONED LAYOUT OF EQUIPMENT ROOMS AND ELECTRICAL ROOMS UTILIZING DIMENSIONS OF EQUIPMENT TO BE INSTALLED. SUBMIT FOR REVIEW PRIOR TO ANY FIELD WORK.
- 14. DATA PRESENTED ON THESE DRAWINGS ARE AS SURVEYS AND PLANNING CAN DETERMINE, BUT ABSOLUTE ACCURACY IS NOT GUARANTEED. FIELD VERIFICATION OF THE PLANS IS RESPONSIBILITY OF THE CONTRACTOR SINCE FINAL DISTANCES; LOCATIONS AND HEIGHTS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS IN AREAS TO BE RENOVATED PRIOR TO BID IN ORDER TO PROVIDE AN ACCURATE BID AND BE AWARE OF CONSTRUCTION METHODS NEEDED TO PROVIDE THE FINISHED PRODUCT AS SHOWN ON THE PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING VIA AN R.F.I. FOR A DECISION TO RESOLVE CONFLICTS PRIOR TO BID.
- 15. EQUIPMENT, FINISHES, AND ACCESSORIES TO BE PROVIDED SHALL COMPLY WITH ANSI A117.1, AMERICANS WITH DISABILITIES ACT AND OTHER SPECIFIC STANDARDS, CODES AND REGULATIONS ESTABLISHED BY LOCAL AUTHORITIES HAVING JURISDICTION.
- 16. CUTTING AND PATCHING: THE CONTRACTOR SHALL PERFORM WHERE REQUIRED TO FACILITATE CONSTRUCTION. THE CONTRACTOR SHALL PATCH AND REPAIR SUCH OPENINGS TO THE ORIGINAL STATE. HOWEVER, STRUCTURAL ELEMENTS SHALL NOT BE CUT WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT OR HIS REPRESENTATIVE.
- 17. THE CONTRACTOR SHALL PROTECT HIS WORK DONE UNDER THIS CONTRACT FROM INJURY DURING CONSTRUCTION AND PROTECT HIS EQUIPMENT FROM DAMAGE.
- 18. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC AND TELEPHONE UTILITY COMPANIES OF NEW WORK FOR THIS PROJECT. THE CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC AND TELEPHONE UTILITY COMPANIES TO PROVIDE SERVICE AND EQUIPMENT PER UTILITIES REQUIREMENTS. INCLUDE COSTS IN THE BASE BID.
- 19. THE OWNER SHALL MAKE APPLICATION TO THE LOCAL TELEPHONE COMPANY FOR TELEPHONE SERVICE.
- 20. ELECTRICAL EQUIPMENT AND APPURTENANCES UNDER THIS CONTRACT SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS:
- A.) UNDERWRITER'S LABORATORIES, INC. U.L.
- B.) NATIONAL FIRE PROTECTION ASSOCIATION NFPA
- C.) NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. NEMA
- D.) NATIONAL ELECTRICAL CODE NEC
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS.

- 22. THE CONTRACTOR SHALL FURNISH A WRITTEN, SIGNED WARRANTY STATING:
 - A.) THAT WORK EXECUTED UNDER THIS CONTRACT SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DAY OF FINAL ACCEPTANCE.
 - B.) THAT THE ELECTRICAL CONTRACTOR WILL AT HIS OWN EXPENSE REPAIR OR REPLACE DEFECTIVE WORK AND MATERIALS AND OTHER WORK DAMAGED THEREBY, WHICH BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE—WARRANTY.

COORDINATION WITH OTHER TRADES

- 1. THE CONTRACTOR IS REFERRED TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND PLUMBING PLANS AND SPECIFICATIONS (AS APPLICABLE) FOR ADDITIONAL INFORMATION AND ELECTRICAL WORK THAT MAY NOT BE INDICATED ON THESE DRAWINGS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS AND GENERAL ARRANGEMENTS ONLY. ADJUST ROUTING AND LOCATIONS FOR FIELD CONDITIONS, COORDINATE WORK AND INSTALLATION WITH OTHER TRADES. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND MOUNTING HEIGHTS
- 3. ELECTRICAL WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL, MECHANICAL AND PLUMBING CONSTRUCTION. SHOULD ELECTRICAL WORK BE INSTALLED WHICH INTERFERES WITH WORK OF OTHER CONTRACTORS, SUCH WORK SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.
- 4. COORDINATE WITH MECHANICAL, PLUMBING AND GENERAL CONDITIONS FOR FINAL LOCATIONS OF HVAC EQUIPMENT, WATER HEATERS, EXHAUST FANS, CONTROL DEVICES, AND EQUIPMENT BY ANY OTHER TRADES. THE CONTRACTOR SHALL REVIEW THE APPROVED MECHANICAL AND PLUMBING SHOP DRAWINGS TO DETERMINE AND VERIFY ELECTRICAL ROUGH—IN REQUIREMENTS, POINT OF CONNECTION(S), AND EQUIPMENT AMPERAGE/VOLTAGE/PHASE. WHEN THE EQUIPMENT HAS BEEN DELIVERED TO THE PROJECT SITE, THE CONTRACTOR SHALL VERIFY WITH THE EQUIPMENT NAMEPLATE FOR THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. FUSE SIZE ADJUSTMENTS MAY BE REQUIRED, AND THE FUSE TYPE SHALL BE DUAL ELEMENT—TIME DELAY, CLASS RK—5. PROVIDE CONDUCTORS, CONDUIT, BREAKERS, CONNECTIONS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 5. FOR EACH MECHANICAL OR PLUMBING DEVICE THAT REQUIRES ELECTRICAL POWER CONNECTION, RESPONSIBILITY FOR COORDINATION BETWEEN THE MECHANICAL OR PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS AND THE ELECTRICAL SERVICES REMAINS WITH ALL INVOLVED CONTRACTORS (ELECTRICAL AND MECHANICAL, PLUMBING, ETC.). COORDINATE AND VERIFY IN FIELD PRIOR TO ROUGH—IN AND EQUIPMENT ORDERING. PROVIDE AND ADJUST ELECTRICAL SERVICES AS REQUIRED. CONTRACTOR SHALL COORDINATE IN FIELD, VERIFY, AND PROVIDE THE ELECTRICAL SERVICES AND RATINGS OF MECHANICAL OR PLUMBING EQUIPMENT AS INDICATED IN THE APPROVED MECHANICAL OR PLUMBING SHOP DRAWINGS AND AS SUCH EQUIPMENT ARRIVES AT THE JOB SITE. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICES, CIRCUIT BREAKERS, CONDUIT, CONDUCTORS, CONNECTIONS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR SHALL INCLUDE SUCH COSTS IN THE BASE BID.
- 6. CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH OWNER AND OTHER TRADES.
- 7. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING, PIPING, AND DUCTWORK ADJACENT TO ELECTRICAL PANELS; ELECTRICAL PANELS SHALL HAVE CLEARANCE FROM FLOOR TO CEILING STRUCTURE. NO MECHANICAL OR PLUMBING DEVICES SHALL CROSS OR PENETRATE PANEL CLEARANCE SPACE.
- 8. WHEN ELECTRICALLY DRIVEN EQUIPMENT FURNISHED UNDER THIS CONTRACT MATERIALLY DIFFERS FROM THE DESIGN, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE CONDUCTORS, DISCONNECT DEVICES, CIRCUIT BREAKERS, FUSES, CONTROLLERS, OVERLOAD PROTECTION, ETC. TO ACCOMMODATE THE EQUIPMENT ACTUALLY INSTALLED.
- 9. PROVIDE CONNECTION OF ELECTRICAL EQUIPMENT MENTIONED IN THIS SECTION OR NOTED ON THE DRAWINGS, WHETHER FURNISHED BY THE CONTRACTOR OR BY OTHERS. REFER TO CONSTRUCTION DOCUMENTS OF OTHER TRADES FOR THIS PROJECT.

GROUNDING

- 1. ALL PROJECT GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.
- 2. PROVIDE A COMPLETE GROUNDING SYSTEM, GROUND CONDUCTOR, GROUND ELECTRODES, GROUND BUS, AND GROUND ROD TO EFFECTIVELY PROVIDE SERVICE GROUND. GROUND PANELS, WIREWAYS, CONDUITS, LIGHT FIXTURES, RECEPTACLES, AND EQUIPMENT IN ACCORDANCE WITH THE NEC. VERIFY GROUNDING MEANS.
- 3. GROUND CONDUCTORS SHALL BE PROVIDED IN FEEDERS AND BRANCH CIRCUIT RACEWAYS. EQUIPMENT GROUND WIRES SHALL BE COPPER AND SIZED AS PER NEC TABLE 250-95.

RACEWAYS, BOXES, AND CONDUCTORS

- 1. WIRING INCLUDING LOW VOLTAGE SHALL BE IN CONDUIT WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 2. PROVIDE PULL BUSHINGS ON COMMUNICATIONS RACEWAYS.
- 3. USE ONLY APPROVED LUBRICANT FOR WIRE PULLING PURPOSES.
- 4. WHERE RACEWAYS AND CABLE PASS THROUGH CONCRETE OR CONCRETE BLOCK WALLS, PROVIDE CORE DRILLING AS REQUIRED.
- 5. ITEMS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CONTROL OF ELECTRICAL APPARATUSES SHALL BE IDENTIFIED. IN UNFINISHED AREAS PAINT STENCIL SHALL BE ACCEPTABLE, FOR OTHER AREAS AN ENGRAVED PLATE SHALL BE USED TO IDENTIFY ASSOCIATED EQUIPMENT.
- 6. NOMINAL MOUNTING HEIGHT OF DEVICES IN EXPOSED CONCRETE BLOCK, TILE, OR BRICK WALLS SHALL OCCUR WITHIN A SINGLE COURSE. A MINIMUM AMOUNT OF BLOCK, TILE, OR BRICK SHALL BE CUT.
- 7. CONTRACTOR SHALL RUN RACEWAY CONCEALED WHEN POSSIBLE, CONCEALED RACEWAYS SHALL BE RUN IN AS DIRECT A LINE AS POSSIBLE WITH LONG BENDS. EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO THE LINES OF THE BUILDING. RACEWAY SHALL BE SUPPORTED FROM THE BUILDING SUPPORTING MEMBERS; ABOVE SUSPENDED CEILINGS. SUPPORT FROM MECHANICAL SYSTEM PIPING, DUCTS, AND OTHER TRADES ARE NOT ACCEPTABLE.
- 8. PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT FOR CONNECTION OF MOTORS AND FOR

- OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT, VIBRATION, AND ALSO WHERE SUBJECT TO ANY OF THE FOLLOWING: EXTERIOR, MOISTURE, CORROSIVE ATMOSPHERE.
- 9. SHEET METAL BOXES SHALL BE STANDARD TYPE WITH KNOCKOUTS, MADE OF HOT DIPPED GALVANIZED STEEL AS MANUFACTURED BY STEEL CITY, RACO, OR APPROVED EQUIVALENT.
- 10. CIRCUIT CONDUCTORS SHALL BE 2 #12 & 1 #12 EQUIPMENT GROUND, UNLESS NOTED OTHERWISE.
- 11. CONDUCTORS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. AVOID UNNECESSARY SPLICING.
- 12. NUMBER OF WIRES FOR EACH CIRCUIT MAY NOT BE INDICATED ON DRAWINGS. THE CONTRACTOR SHALL PROVIDE WIRES NECESSARY FOR PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLANS OR NOT.
- 13. SINGLE—PHASE BRANCH CIRCUITS, 120—VOLT LIGHTING, RECEPTACLES, AND MOTORS SHALL CONSIST OF PHASE, NEUTRAL, AND GROUND CONDUCTORS.
- 14. JUNCTION BOXES AND ELECTRICAL EQUIPMENT EXPOSED TO THE ELEMENTS SHALL BE WEATHERPROOF.
- 15. CONDUIT CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS ON BOTH SIDES OF EXPANSION JOINT.

PANELBOARDS

- PANELBOARDS SHALL CONSIST OF COMPLETE DEAD FRONT ASSEMBLIES INCLUDING BACK CAN, BUS BAR, SHEET METAL CABINET, SWITCHING AND OVER CURRENT DEVICES, TRIMS, DOOR AND LOCK. PANELBOARDS SHALL BE SQUARE "D", G.E., SIEMENS OR APPROVED EQUIVALENT.
- 2. WHEN ORDERING PANELBOARDS, THE CONTRACTOR SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.
- 3. THE CONTRACTOR SHALL INSTALL PANELS AND ELECTRICAL EQUIPMENT PER NEC ARTICLE 110 CLEARANCE REQUIREMENTS.
- 4. CIRCUIT NUMBERS ARE FOR IDENTIFICATION ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELS. HOMERUNS OF SIMILAR SINGLE—PHASE CIRCUITS MAY BE COMBINED IN ANY ONE RACEWAY WITH A COMMON NEUTRAL. UNLESS NOTED OTHERWISE, ONLY THREE (3) SINGLE—PHASE CIRCUITS MAY BE COMBINED IN ANY ONE RACEWAY. ON COMPLETION OF THE SPACE, THE ELECTRICAL CONTRACTOR SHALL BALANCE THE PANEL PHASE LOADS TO WITHIN TEN PERCENT.

WIRING DEVICES

- 1. THE CONTRACTOR SHALL PROVIDE GFCI, WEATHERPROOF—WHILE—IN—USE RECEPTACLE(S) WITHIN 25 FEET OF ALL HVAC EQUIPMENT ON ROOF OR GROUNDS.
- 2. EXTERIOR RECEPTACLES EXPOSED TO THE ELEMENTS SHALL BE GFCI, WEATHERPROOF—WHILE—IN—USE RECEPTACLES.
- 3. PLATES FOR UNFINISHED AREAS SHALL BE SHEET STEEL OR CAST METAL.
- 4. PROVIDE ENGRAVED PLASTIC IDENTIFICATION PLATE FOR EACH PANELBOARD. INSTALL A TYPEWRITTEN DIRECTORY IN DOOR OF EACH PANEL. CIRCUIT DIRECTORIES SHALL BE NEATLY TYPED TO REFLECT INSTALLED CONDITIONS UNDER THIS CONTRACT. CIRCUITS SHALL BE NUMBERED ALTERNATELY (I.E. 1, 3, 5 AND 2, 4, 6 ETC).
- 5. SAFETY SWITCHES SHALL BE INSTALLED WHERE INDICATED ON PLANS OR WHERE OTHERWISE REQUIRED BY CODE ENFORCING AUTHORITIES. THEY SHALL BE INSTALLED WITH ADEQUATE HAND ACCESS TO AND CLEARANCE FOR OPERATION AND FUSE REPLACEMENT. EACH SWITCH SHALL HAVE ENGRAVED PLASTIC NAMEPLATES INSTALLED, IDENTIFYING THE EQUIPMENT IT IS SERVING.
- 6. EXHAUST FANS SHALL HAVE DISCONNECT SWITCHES. COORDINATE WITH MECHANICAL DRAWINGS FOR INSTALLATION OF THERMOSTATS.
- 7. REMOTE POWERED EQUIPMENT ON ROOF OR GROUNDS SHALL BE PROVIDED BY CONTRACTOR WITH A NEMA 3R DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT (UNLESS NOTED OTHERWISE).
- 8. LOCATE OUTLETS AS INDICATED ON PLANS WITH MOUNTING HEIGHTS AS SHOWN.
 COORDINATE INSTALLATION WITH OTHER EQUIPMENT AND ARCHITECTURAL MILLWORK
 ELEVATIONS. SECURE OUTLETS TO STRUCTURE.

<u>LIGHTING</u>

- 1. LIGHT FIXTURE LOCATIONS SHALL BE ADJUSTED IN FIELD AS REQUIRED TO ACCOMMODATE DUCTWORK, PIPING AND OTHER TRADES. CONTRACTOR SHALL VERIFY APPROPRIATE LIGHTING LEVELS WHERE LIGHT FIXTURES ARE ADJUSTED FROM LOCATIONS SHOWN ON FLOOR PLAN.
- 2. SUPPORT OF LIGHT FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. LAY-IN LIGHT FIXTURES SHALL NOT BE SUPPORTED ENTIRELY BY CEILING GRID SYSTEM. THEY SHALL HAVE STEEL WIRE SUPPORT TIED TO THE STRUCTURE ABOVE FROM AT LEAST TWO POINTS ON THE FIXTURE.
- 3. PROVIDE A COMPLETE LIGHTING SYSTEM. PROVIDE FIXTURES, LAMPS, ACCESSORIES AND SUPPORT AS SPECIFIED AND SHOWN. CEILING GRID LAYOUTS ON PLANS ARE FOR CONVENIENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LIGHT FIXTURE LAYOUT WITH (AS APPLICABLE): ARCHITECT, REFLECTED CEILING PLANS, GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, FIRE ALARM CONTRACTOR, LOW-VOLTAGE CONTRACTOR(S) AND OWNER.
- 4. LIGHT FIXTURES SHALL BE FURNISHED AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ON THE LIGHTING PLANS OR APPROVED EQUIVALENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CEILING TYPES, CLEARANCES, MOUNTING HARDWARE, ETC., AND PROVIDE AS REQUIRED TO INSTALL THE LIGHT FIXTURES.

<u>SUBMITTALS</u>

1. PROVIDE COMPLETE SHOP DRAWINGS, RISER DIAGRAMS, AND SUBMITTALS. THE CONTRACTOR SHALL PURCHASE NO EQUIPMENT FOR THE SYSTEM SPECIFIED HEREIN UNTIL THE OWNER HAS REVIEWED THE PROJECT SHOP DRAWINGS AND SUBMITTALS IN THEIR ENTIRETY AND HAS RETURNED THEM TO THIS CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE ENTIRE INTENT AND FUNCTIONAL PERFORMANCE DETAILED IN THESE PLANS AND SPECIFICATIONS. REVIEWED SUBMITTALS SHALL ONLY ALLOW THE CONTRACTOR TO PROCEED WITH THE INSTALLATION AND SHALL NOT BE CONSTRUED TO MEAN THAT THIS

CONTRACTOR HAS SATISFIED THE REQUIREMENTS OF SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT THREE (3) COMPLETE SETS OF DOCUMENTATION WITHIN 30 CALENDAR DAYS AFTER AWARD OF PROJECT:

EACH SUBMITTAL SHALL INCLUDE A COVER LETTER PROVIDING A LIST OF EACH VARIATION THAT THE SUBMITTAL MAY HAVE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IN ADDITION THIS CONTRACTOR SHALL PROVIDE SPECIFIC NOTATION ON EACH SHOP DRAWING, SAMPLE, CATALOG CUT, DATA SHEET, INSTALLATION MANUAL, ETC.

SUBMITTED FOR REVIEW AND APPROVAL OF EACH SUCH VARIATION.

SHOP DRAWINGS AND DIAGRAMS SHALL INCLUDE THE CONTRACTOR'S TITLE BLOCK, COMPLETE WITH DRAWING TITLE, CONTRACTOR'S NAME, ADDRESS, DATE INCLUDING REVISIONS, AND PREPARER'S AND REVIEWER'S INITIALS.

bbi

An Architectural Corporation

1111 South Foster Drive Suite D

Baton Rouge, LA. 70806 T (225) 761-5191

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REVISIONS:

_ ADDENDUM No. 1

10/ 21/ 2024



ON ROUGE POLICE DEPARME TRAINING FACILITY

SHEET TITLE

GENERAL

ELECTRICAL

NOTES

Job No. : $\frac{A24-005}{2024}$

Drawn By : DAE

Checked By: RV

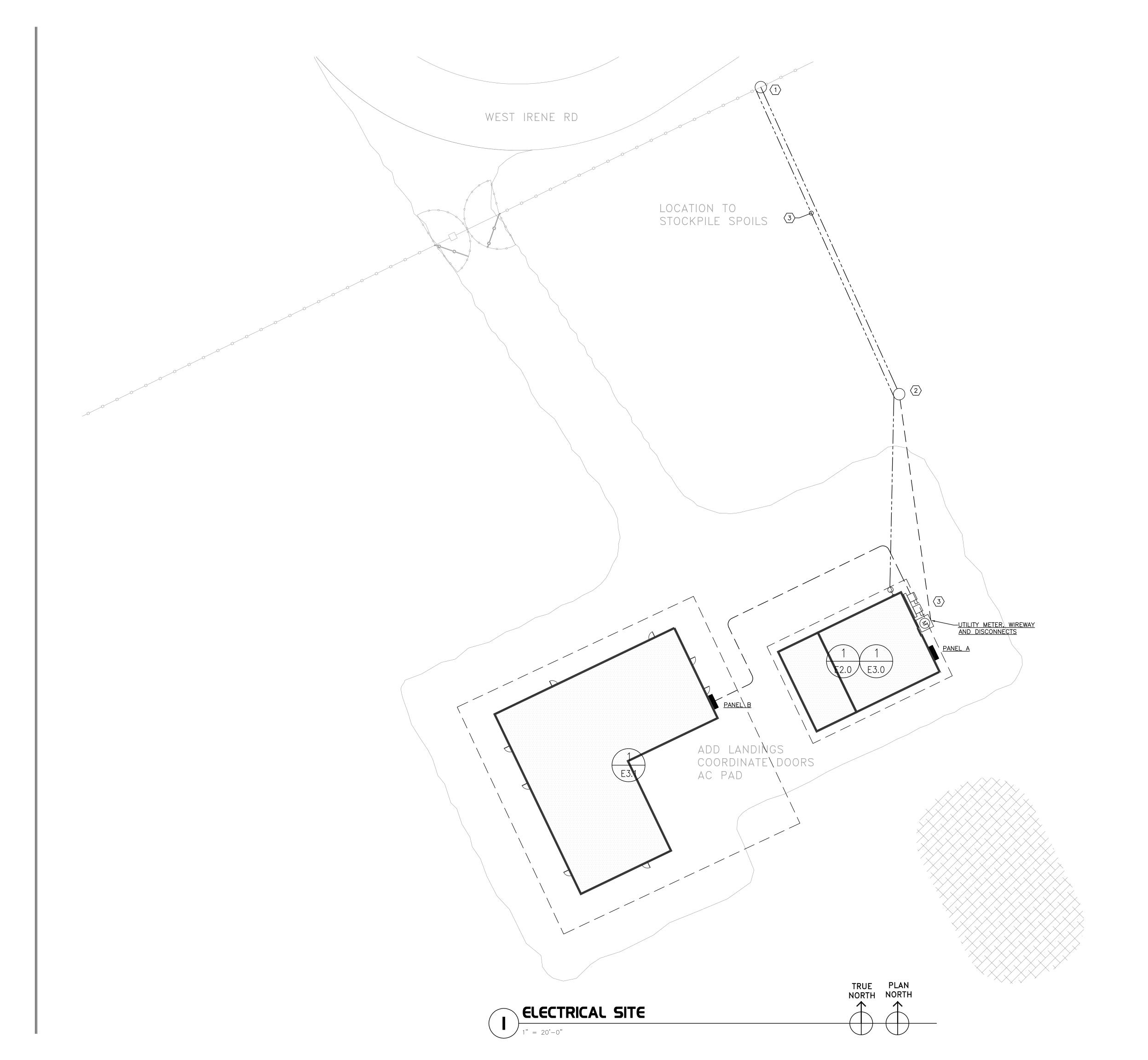
SHEET

EDS, Inc

24095

ELECTRICAL DESIGN SOLUTIONS
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GENERAL NOTES:

- SEE SCHEMATIC RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- CONSULT WITH UTILITY AND PROVIDE PULL BOXES AND RACEWAYS PER THEIR REQUIREMENTS.
- ALL BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.
- 4. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR EXACT DEVICE AND LIGHT FIXTURE LOCATIONS.

SPECIFIC NOTES:

- $\langle 1 \rangle$ EXISTING UTILITY POLE WITH EXISTING XFMR.
- 2 NEW UTILITY POLE.
- REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- TWO (2) 2"R WITH PULLSTRING TO WEATHERPROOF
 J-BOX SURFACE MOUNTED ON THE EXTERIOR OF THE
 BUILDING FOR TELECOM UTILITY SERVICE FROM NEAREST
 EXISTING UTILITY POLE ON SITE CURRENTLY WITH
 TELECOM SERVICE. COORDINATE SUPPLY LOCATION OF SERVICE WITH TELECOM UTILITY IN THE FIELD.



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Baton Rouge, LA. 70806 T (225) 761-5191

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REVISIONS:

_ ADDENDUM No. 1 __

10/ 21/ 2024



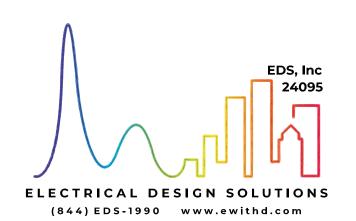
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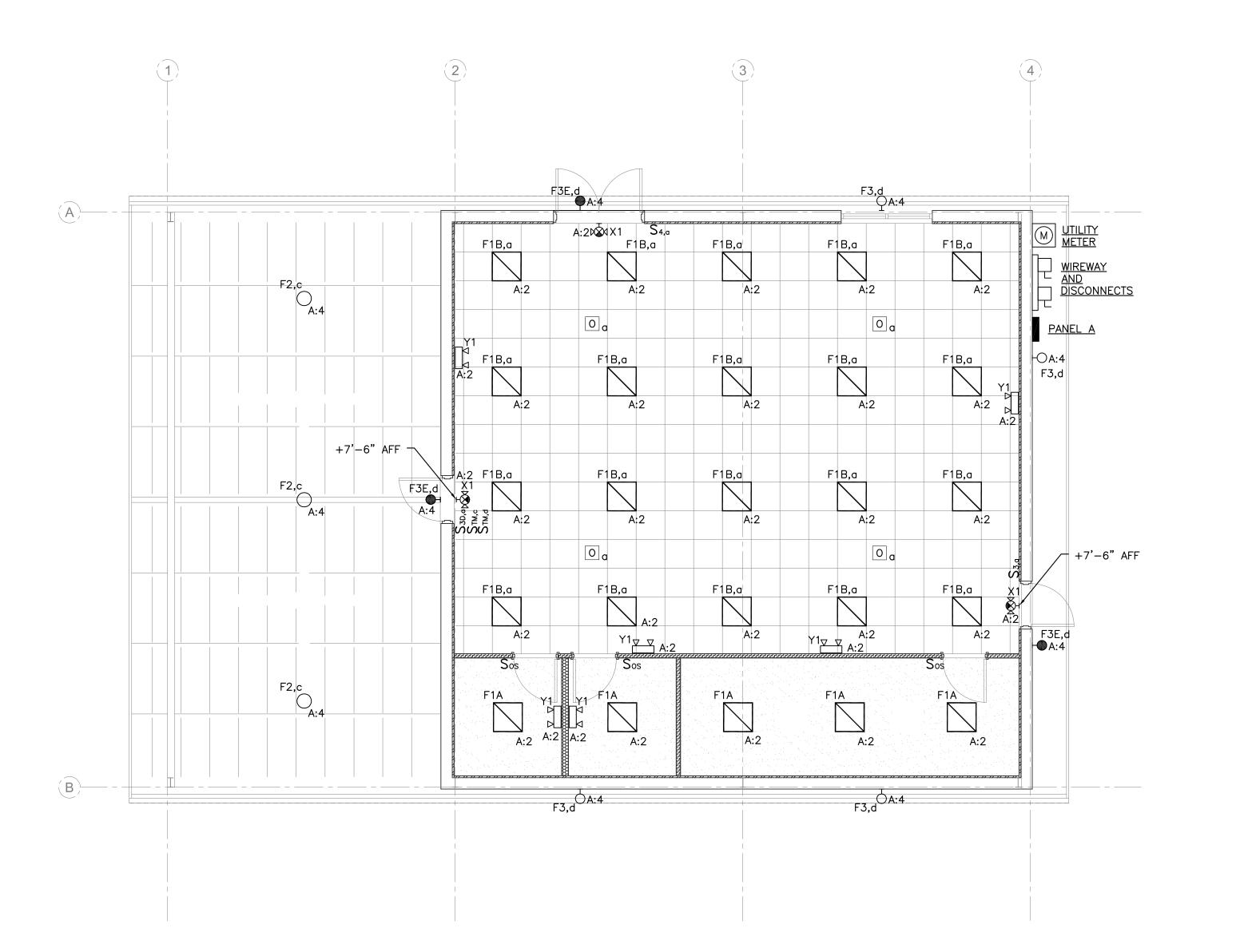
ELECTRICAL SITE

Job No. : <u>A24-005</u> : <u>10/1/20</u>24

Drawn By : DAE

Checked By: RV





CLASSROOM LIGHTING 1" = 20'-0"

GENERAL NOTES:

- 1. BRANCH CIRCUIT HOMERUNS SHALL BE SIZED FOR VOLTAGE DROP BASED UPON THE FOLLOWING FOR 120V, 10, 20A LOADS:

 #12 0'-70'
 #10 71'-110'
 - #10 71'-110' #8 - 111'-175' #6 - 176'-280' PROVIDE APPROPRIATE HARDWARE TERMINATION

FOR ASSOCIATED WIRE SIZE.

- 2. BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.
- 3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING FIXTURE LOCATIONS.
- 4. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY EGRESS LIGHTING FIXTURE VOLTAGE SENSING CIRCUITS.
- 5. EMERGENCY LIGHTS SHALL BE WIRED FOR SWITCHED OPERATION UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE UNSWITCHED.
- 6. PROVIDE LOW VOLTAGE CONTROL WIRING, POWER PACKS, ETC TO PRODUCE A FULLY OPERATIONAL SYSTEM AS PER THE SWITCHING/ZONING SCHEMES SHOWN ON DRAWINGS.
- 7. WHERE OCCUPANCY/VACANCY SENSORS ARE SHOWN, CONTRACTOR SHALL LOCATE SENSOR PER MANUFACTURER'S SUGGESTION FOR OPTIMAL COVERAGE. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR FULL COVERAGE AND PREVENTION OF NUISANCE SWITCHING.

SPECIFIC NOTES:

 $\langle 1 \rangle$ NOT USED.

bhi

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Baton Rouge, LA. 70806 T (225) 761-5191

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REVISIONS:

ADDENDUM No. 1

10/ 21/ 2024



IN CAL ENGUITH

TRAINING FACILITY
999 WEST IRENE ROAD, ZACHARY, LA 70791

SHEET TITLE

CLASSROOM LIGHTING

Job No. : <u>A24-005</u>

Date : <u>10/1/20</u>24

Drawn By : <u>DAE</u>

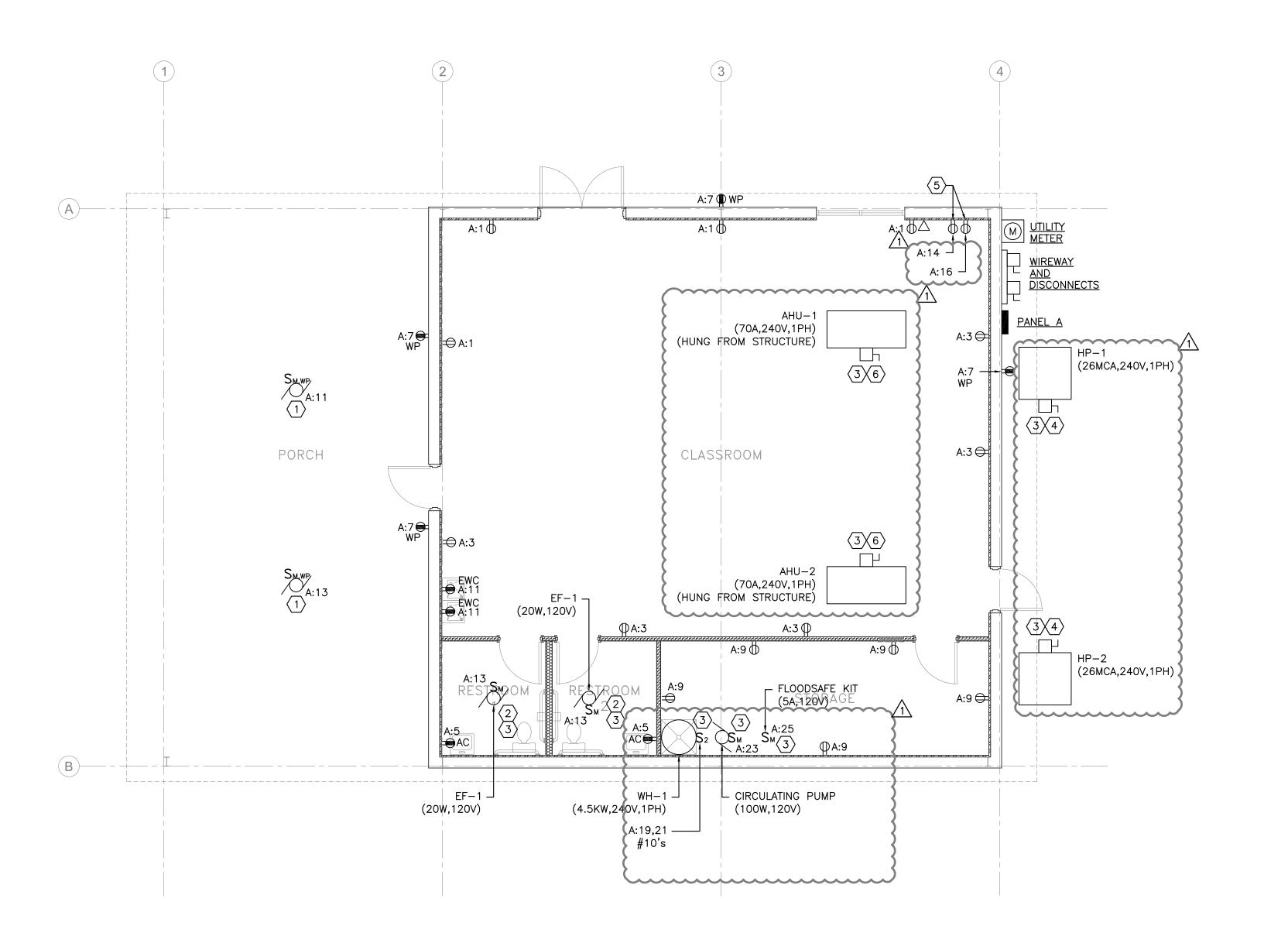
Checked By: RV

SHEET

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ELECTRICAL DESIGN SOLUTIONS
(844) EDS-1990 www.ewithd.com

E2.0



CLASSROOM POWER & SS 1" = 20'-0"

GENERAL NOTES:

1. BRANCH CIRCUIT HOMERUNS SHALL BE SIZED FOR VOLTAGE DROP BASED UPON THE FOLLOWING FOR 120V, 1ø, 20A LOADS:

#12 - 0'-70'

#10 - 71'-110'

#8 - 111'-175'

#6 - 176'-280'

- PROVIDE APPROPRIATE HARDWARE TERMINATION FOR ASSOCIATED WIRE SIZE.

 2. BRANCH CIRCUITS SHALL NOT EXCEED 3%
- 3. SEE ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.

SPECIFIC NOTES:

- FOR FAN (1/4HP, 120V). VERIFY EXACT LOCATION OF CONTROLLER WITH OWNER AND PROVIDE WIRING/CABLING AND RACEWAY FROM CONTROLLER TO FAN PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE ON/OFF CONTROL OF EXHAUST FAN VIA SWITCH WITH OCCUPANCY SENSORS THAT CONTROLS LIGHTING WITHIN THIS ROOM.
- CONTRACTOR SHALL VERIFY EXACT ELECTRICAL REQUIREMENTS AND COORDINATE THE EXACT LOCATION WITH MECHANICAL PRIOR TO ROUGH—IN AND INSTALLATION. CONTRACTOR SHALL PROVIDE ANY REQUIRED RACEWAY, FEEDER, DISCONNECT DEVICES, AND ANY OTHER ACCESSORIES OR MATERIALS NOT MENTIONED THAT ARE NEEDED FOR THE SAFE AND PROPER FUNCTIONING OF THE EQUIPMENT.
- 30A/NF/2P,2W/240V/N-3R DISCONNECT SWITCH FOR HP. PROVIDE 2 #10 & 1#10(G) IN 3/4"R BRANCH CIRCUIT.
- 5 INSTALL RECEPTACLE ON TELEPHONE BACKBOARD. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 6 100A/NF/2P,2W/240V/N-3R DISCONNECT SWITCH FOR HP. PROVIDE 2 #4 & 1#8(G) IN 1"R BRANCH CIRCUIT.

bbi

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REVISIONS:

10/22/24 ADDENDUM 1

ATON ROUGE POLICE DEPARMENT TRAINING FACILITY

SHEET TITLE

CLASSROOM POWER & SS

Job No. : <u>A24-005</u> Date : <u>10/1/20</u>24

Drawn By: <u>DAE</u>

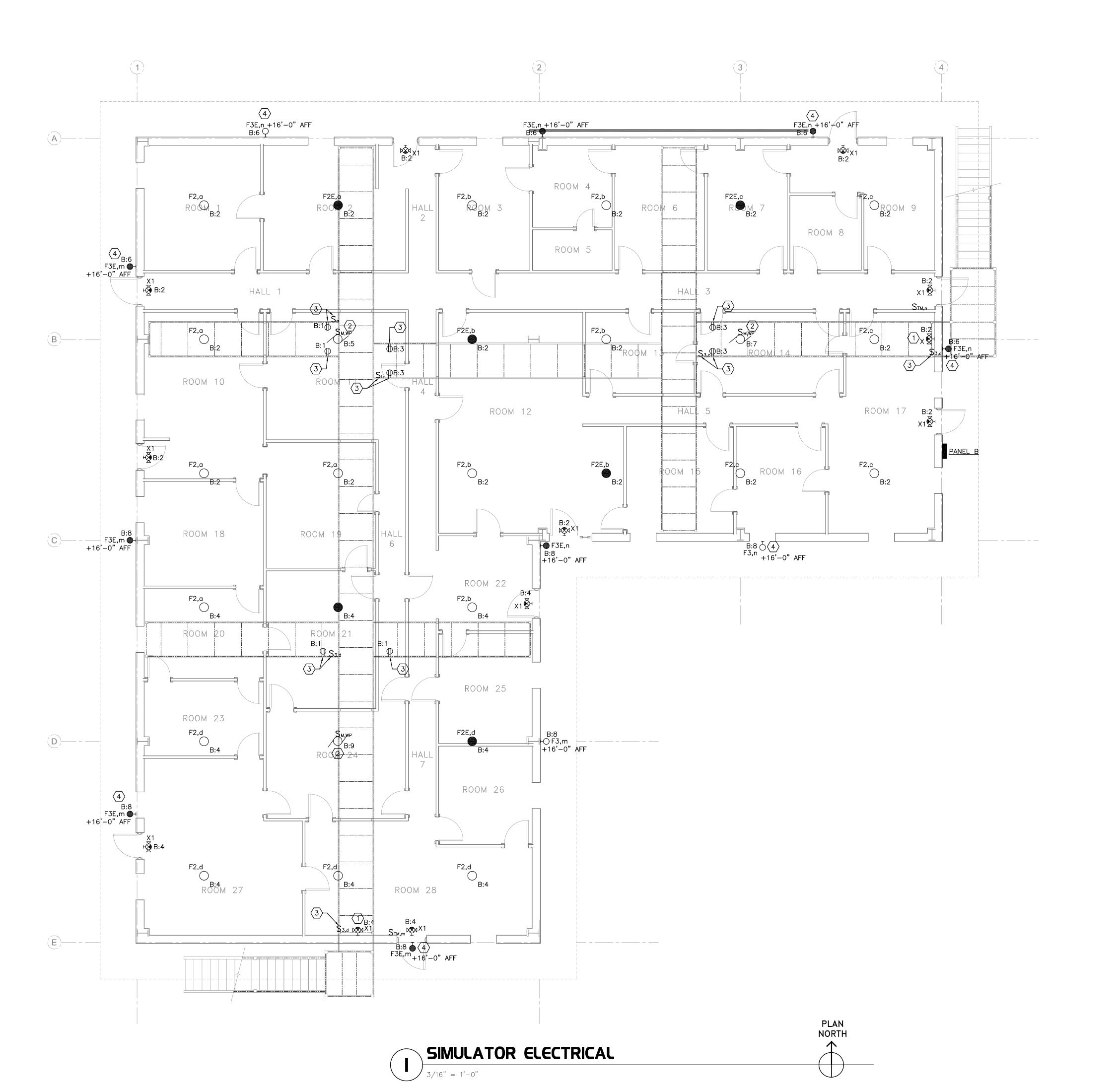
Checked By: <u>RV</u>

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GENERAL NOTES:

- 1. BRANCH CIRCUIT HOMERUNS SHALL BE SIZED FOR VOLTAGE DROP BASED UPON THE FOLLOWING FOR 120V, 1ø, 20A LOADS: #12 - 0'-70'
 - #10 71'-110' #8 - 111'-175'
 - #6 176'-280' PROVIDE APPROPRIATE HARDWARE TERMINATION FOR ASSOCIATED WIRE SIZE.
- 2. BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.
- 3. SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE AND DEVICE LOCATIONS.
- 4. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY EGRESS LIGHTING FIXTURE VOLTAGE SENSING CIRCUITS.
- 5. EMERGENCY LIGHTS SHALL BE WIRED FOR SWITCHED OPERATION UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE UNSWITCHED.

6. PROVIDE LOW VOLTAGE CONTROL WIRING, POWER

- PACKS, ETC TO PRODUCE A FULLY OPERATIONAL SYSTEM AS PER THE SWITCHING/ZONING SCHEMES SHOWN ON DRAWINGS. 7. ALL RECEPTACLE AND LIGHTING SWITCHES SHOWN
- WITHIN THIS DRAWING, INCLUDING ASSOCIATED ELECTRICAL BOXES, ACCESSORIES AND DEVICES SHALL BE WET LOCATION LISTED. 8. RECEPTACLES AND LIGHTING SWITCHES SHOWN AT
- THE CAT WALK CORNERS SHALL BE SECURELY ATTACHED TO THE CAT WALK STRUCTURE AND PROVIDED WITH ALL THE NECESSARY RACEWAYS, FEEDERS AND ACCESSORIES TO ENSURE A FULLY FUNCTIONAL SYSTEM.
- 9. CONTRACTOR SHALL VERIFY ALL ELECTRICAL EQUIPMENT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLING ANY EQUIPMENT.

SPECIFIC NOTES:

- 1 PROVIDE ALL NECESSARY STRUCTURE, RACEWAY AND FEEDERS FOR EXIT SIGN TO BE ATTACHED THROUGH THE CEILING AND TO BE LOCATED AT 7'-6" AFF.
- 2 FOR FAN (1/4HP, 120V). VERIFY EXACT LOCATION OF CONTROLLER WITH OWNER AND PROVIDE WIRING/CABLING AND RACEWAY FROM CONTROLLER TO FAN PER MANUFACTURER'S REQUIREMENTS.
- 3 ELECTRICAL DEVICE TO BE MOUNTED ON CAT WALK STRUCTURE. REFER TO GENERAL NOTES SECTION WITHIN THIS SHEET.
- (4) WALL PACK LIGHT FIXTURE SHALL BE SECURELY ATTACHED TO THE STRUCTURE ABOVE WITH CONDUIT AND A J-BOX. CONTRACTOR TO PROVIDE ALL NECESSARY ACCESSORIES TO ENSURE A FULLY FUNCTIONAL AND SECURE SYSTEM.

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REVISIONS:

_ ADDENDUM No. 1 __

10/ 21/ 2024

SHEET TITLE

SIMULATOR ELECTRICAL

Job No. : <u>A24-005</u> : 10/1/2024

Drawn By : DAE Checked By: RV

SHEET

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