# MORGAN COUNTY EVENT CENTER

## MORGAN COUNTY COMMISSION, DECATUR, ALABAMA

| | |
|---|---|
| GOODWYN MILLS CAWOOD, LLC | ARCHITECTURE, INTERIORS |
| GOODWYN MILLS CAWOOD, LLC | CIVIL ENGINEERING |
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| MW/DAVIS DUMAS & ASSOCIATES, INC. | MECHANICAL, PLUMBING & FIRE PROTECTION ENGINEERING |
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**Morgan County, Alabama**

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**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEY'S SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owen Cross Roads
Alabama
REGISTERED ARCHITECT
2-15-2024

**TITLE SHEET**

T1

2/20/2024 12:46:59 PM

# GENERAL NOTES

DIVISION NOTES:

A. DIVISION 1 – GENERAL REQUIREMENTS:

1.01. **COMPLETE CONTRACT DOCUMENTS:** THE COMPLETE DRAWINGS, SPECIFICATIONS, ADDENDA, AND CLARIFICATIONS ISSUED BY FIELD ORDER OF SIMILAR INSTRUMENTS CONSTITUTE THE CONTRACT DOCUMENTS AND SHALL REMAIN INTACT. THE GENERAL CONTRACTOR IS FULLY RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS INCLUDED, OR REASONABLE INFERRED THEREIN. THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR (AS APPLICABLE) MUST NOT ISSUE PARTIAL SETS OR OTHERWISE CAUSE INCOMPLETE CONTRACT INFORMATION TO BE PROVIDED TO PARTIES TO THE CONTRACT, INCLUDING ASSOCIATED SUB-CONTRACTORS, OR SUB-SUB-CONTRACTORS.

1.02. **MULTI-TRADE COORDINATION:** ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. SUB-CONTRACTORS SHALL WORK TOGETHER IN THE REVIEW OF WORK AND COORDINATION OF SYSTEMS IN PLENUM AREAS, AND OTHER LOCATIONS WHERE CAREFUL COORDINATION IS NECESSARY TO ERECT THE WORK IN LIMITED SPACES. **NO ALLOWANCES WILL BE MADE FOR THE FAILURE TO COORDINATE BETWEEN DISCIPLINES, SYSTEMS OR EQUIPMENT. UNCOORDINATED WORK THAT RESULTS IN THE INEFFICIENT USE OF AVAILABLE SPACE MAY BE SUBJECT TO REJECTION OF INSTALLED WORK.** WHERE COMPLEXITY OF THE INSTALLED WORK OR WHERE WORK INSTALLED IN COMPACT SPACES NECESSITATES CAREFUL COORDINATION FOR SUCCESSFUL INSTALLATION, THE GENERAL CONTRACTOR IS STRONGLY ENCOURAGED TO UNDERTAKE A SYSTEMS COORDINATION PROGRAM THAT INCLUDES THREE-DIMENSIONAL MODELING OF THE REQUIRED WORK PRIOR TO INSTALLATION, WHETHER OR NOT REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.

1.03. **VERIFICATION:** THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, CONSTRUCTION, MATERIALS, METHODS OF CONSTRUCTION, GRADES AND ELEVATIONS; AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS WITHIN THE DOCUMENTS PRIOR TO BID, CONSTRUCTION, AND/OR INSTALLATION OF ASSOCIATED WORK. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE THAT THE EXISTING CONDITIONS ARE CONSISTENT WITH THOSE OF THE CONTRACT DOCUMENTS. ANY CHANGE ORDER REQUEST ASSOCIATED WITH AN IDENTIFIABLE EXISTING CONDITION, WHETHER IN CONFLICT OR COMPLIANCE WITH THE CONTRACT DOCUMENTS, WILL NOT BE ACCEPTED. THIS PROVISION SHALL NOT APPLY TO WORK PERFORMED UNDER UNIT PRICE OR ALLOWANCE FEE STRUCTURES.

1.04. **DISCREPANCIES:** THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PROMPTLY UPON IDENTIFICATION OF ANY DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS, WITH THE OBJECTIVE OF RESOLVING THE CONFLICT OR DISCREPANCY IN A TIMELY MANNER AND PRIOR TO ANY IMPACT TO THE CONTRACT TIME OR PRICE. THE GENERAL CONTRACTOR SHALL INCLUDE THE MORE EXPENSIVE, COMPLEX, AND TIME CONSUMING COMPONENTS OF ANY DISCREPANCIES IN THE BASE BID PRICE. FAILURE TO NOTIFY THE ARCHITECT PROMPTLY OF A KNOWN DISCREPANCY CONSTITUTES ACCEPTANCE OF FULL RESPONSIBILITY FOR THE ASSOCIATED COST AND SCHEDULE IMPACT.

1.05. **DRAWING SCALE:** REPROGRAPHIC TECHNIQUES MAY RENDER DRAWINGS DIFFERENTLY THAN THE INTENDED PRINTED SCALE. THEREFORE, DO NOT RELY UPON THE SCALE OF ANY PRINTED DRAWINGS. CONTACT THE ARCHITECT FOR REQUIRED DIMENSIONS THAT ARE NOT PROVIDED CLEARLY IN NUMERIC FORM HEREIN. FAILURE TO REQUEST CRITICAL DIMENSIONAL INFORMATION FROM THE ARCHITECT MAY RESULT IN THE REJECTION OF INSTALLED WORK.

1.06. **DIMENSIONAL STANDARDS:** STANDARD DIMENSION CONVENTIONS UTILIZED HEREIN CALL FOR DIMENSIONS TO FACE OF STUD (MASONRY) OF FINISHED PARTITION, FACE OF FINISH, OR CENTERLINE OF COLUMN LINE OR OTHER REFERENCE LINE, UNLESS OTHERWISE NOTED OR GRAPHICALLY ILLUSTRATED. DIMENSIONS NOTED AS "CLEAR", "MIN", OR "MAX" SHALL BE STRICTLY ENFORCED.

1.07. **{PM SOFTWARE}**

1.08. **PERMITTING:** THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY AND REQUIRED PERMITS AND APPROVALS FROM JURISDICTIONAL AUTHORITIES, PRIOR TO COMMENCING THE WORK. THIS REQUIREMENT SHALL APPLY TO ON-SITE AND OFF-SITE WORK REQUIRED BY THE CONTRACT DOCUMENTS.

1.09. **CODE COMPLIANCE:** THE WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE LAWS, CODES, AND ORDINANCE. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL PERFORM THEIR WORK IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, LAWS, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL CAREFULLY READ AND FAMILIARIZE THEMSELVES WITH THE CODE COMPLIANCE DATA INCLUDED IN THE DRAWINGS AND SPECIFICATIONS.

1.10. **NON-COMBUSTIBLE CONSTRUCTION TYPES:** THE PROPOSED BUILDING STRUCTURE IS NON-COMBUSTIBLE IN ACCORDANCE WITH APPLICABLE CODES, AND THEREFORE REQUIRES NON-COMBUSTIBLE CONSTRUCTION TECHNIQUES. ALL NEW CONSTRUCTION SHALL BE IN COMPLIANCE WITH APPLICABLE REQUIREMENTS, INCLUDING WOOD BLOCKING, FURRING, FRAMING, SHEATHING, BACK-BOARDS, AND RELATED WORK. FIRE RETARDANT TREATED [FRT] IS PERMITTED WHERE ALLOWED BY CODE. SEE CODE COMPLIANCE DRAWINGS FOR DETAILED INFORMATION AND REQUIREMENTS.

1.11. **TEMPORARY GUARDS:** THE GENERAL CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY GUARDS AT ALL SLAB EDGES, PIT EDGES, ELEVATED PLATFORM EDGES, AND SIMILAR CONDITIONS WHERE REQUIRED BY OSHA, ANY APPLICABLE CODE OR ORDINANCE, AND AT MINIMUM ALL CHANGES IN ELEVATION IN EXCESS OF THIRTY INCHES (30") INCLUDING BOTH SIDES OF STAIRS AND LADDERS. TEMPORARY GUARDS MUST BE MAINTAINED UNTIL THE PERMANENT GUARDS ARE INSTALLED.

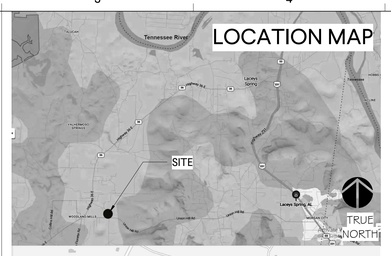
1.12. **LIFE-SAFETY MEASURES DURING CONSTRUCTION:** THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS REQUIRED BY OSHA, CODE, AND OTHER APPLICABLE REGULATORY AUTHORITIES.

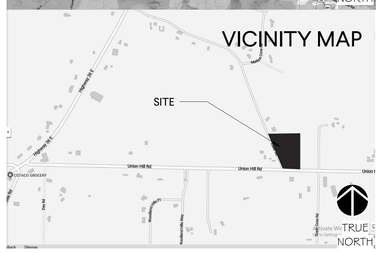
1.13. **MEANS OF EGRESS:** THE GENERAL CONTRACTOR SHALL MAINTAIN CLEAR AND UNOBSTRUCTED MEANS OF EGRESS AT ALL TIMES DURING CONSTRUCTION, WITHOUT EXCEPTION.

1.14. **CONSTRUCTION LOADS:** THE GENERAL CONTRACTOR SHALL NEVER LOAD NEW OR EXISTING CONSTRUCTION BEYOND ITS DESIGN CAPACITY WITH STORED MATERIAL, CONSTRUCTION EQUIPMENT, TEMPORARY LOADS ASSOCIATED WITH MATERIAL MOVEMENT, HOISTING, OR STORAGE, OR SIMILAR CONDITIONS.

1.15. **GENERAL CLEAN-UP:** THE GENERAL CONTRACTOR SHALL INCLUDE ONGOING CLEAN-UP OF THE PROPERTY AND BUILDING, INCLUDING REMOVAL OF TRASH AND WASTE MATERIALS, ON A REGULAR BASIS DURING CONSTRUCTION. RECYCLING OF CONSTRUCTION WASTE IS ENCOURAGED.

1.16. **OWNER FURNISHED EQUIPMENT:** LOOSE FURNISHINGS, WORKSTATIONS, OFFICE EQUIPMENT, COPIERS, VENDING MACHINES, KITCHEN EQUIPMENT, AND SIMILAR ITEMS THAT ARE BOTH LABELED "OWNER FURNISHED" OR "OF/OI", AND SHOWN DASHED OR IN GRAY-TONE SHALL BE CONSIDERED OWNER FURNISHED EQUIPMENT. OWNER FURNISHED EQUIPMENT IS SHOWN FOR THE GENERAL CONTRACTOR'S KNOWLEDGE AND UNDERSTANDING TO FACILITATE COORDINATION WITH THE OWNER'S WORK. THE GENERAL CONTRACTOR SHALL CAREFULLY REVIEW THE SCOPE OF WORK, AND REQUEST CLARIFICATION FROM THE ARCHITECT IN THE EVENT OF ANY UNCERTAINTY ABOUT THE DEFINITION OF OWNER FURNISHED WORK.




## ANNOTATION SYMBOLS

ROOM NAME
101

ROOM REFERENCE SYMBOL:
-- ROOM NAME
1--: FLOOR NUMBER
-- 01: SPACE NUMBER
150 SF: NET SQUARE FOOTAGE

COLUMN LINES:
2 - CONSECUTIVE NUMBERS ARE USING FOR COLUMN LINES RUNNING NORTH & SOUTH
A - CONSECUTIVE LETTERS ARE USED FOR COLUMN LINES RUNNING EAST & WEST
NOTE: IF A COLUMN LINE IS ADDED, "SUB" NUMBERS/LETTERS ARE USED
2- FACE OF MASONRY OR FACE OF GIRDER

677.52 DATUM SYMBOL (ELEVATION MARK)
677.52 - ELEVATION (FT)

REVISION SYMBOL
USED TO INDICATE SCOPE OF CURRENT REVISION

DOOR SYMBOL:
-DOOR NUMBER 101
-DOOR TYPE A
SEE DOOR SCHEDULE AND FLOOR PLANS

WINDOW SYMBOL:
-WINDOW TYPE A
SEE EXTERIOR ELEVATIONS AND WINDOW SCHEDULE

LOUVER SYMBOL:
-LOUVER TYPE L1
SEE LOUVER SCHEDULE

WALL SYMBOL:
-WALL TYPE OG
SEE PARTITION LEGEND

SPECIALTY EQUIPMENT TAG:
-SPECIALTY EQUIPMENT TYPE 2
SEE SPECIALTY EQUIPMENT SCHEDULE

PLAN KEYNOTE TAG
- NOTE NUMBER A
SEE PLAN KEYNOTE SCHEDULE

BUILDING SECTION SYMBOL:
SECTION 1 ON SHEET A101

WALL SECTION SYMBOL:
SECTION 1 ON SHEET A101

ENLARGED DETAIL SYMBOL:
DETAIL 1 ON SHEET A101

EXTERIOR ELEVATION SYMBOL:
ELEVATION 1 ON SHEET A101

INTERIOR ELEVATION SYMBOL:
INTERIOR ELEVATION 3 ON SHEET A101

NORTH ARROW

FF&E:
BY OTHERS

## ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| AC | acre |
| ACC | accessible |
| ACI | American Concrete Institute |
| ACT | acoustical ceiling tile |
| ADD | addendum |
| AFF | above finished floor |
| ALT | alternate |
| ALUM | aluminum |
| APPROX | approximate |
| ARCH | architect (ural) |
| ADJ | adjacent |
| B&B | balled and burlapped |
| B/B | back to back |
| BC | base of curb |
| BD | board |
| BLDG | building |
| BLKG | blocking |
| BM | benchmark |
| BOT | bottom |
| BRG | bearing |
| BSMT | basement |
| BUR | built-up roof |
| BOW | bottom of wall |
| B/W | between |
| C | channel |
| CAB | cabinet |
| CAL | caliper |
| CB | catch basin |
| C/C | center to center |
| CD | core deck |
| CF | cubic foot |
| CI | cast iron |
| CIP | cast iron pipe |
| CJ | construction or control joint |
| CLG | ceiling |
| CLO | closet |
| CLR | clear (ance) |
| CMP | corrugated metal pipe |
| CMU | concrete masonry unit |
| CO | clean out |
| COL | column |
| CONC | concrete |
| CONN | connection |
| CONST | construction |
| CONT | continuous or continue |
| COORD | coordinate |
| CPT | carpet (ed) |
| CS | countersink |
| CSMU | calcium silicate masonry unit |
| CT | ceramic tile |
| CW | curtain wall |
| CY | cubic yard |
| D | dryer |
| DBL | double |
| DEM | demolish or demolition |
| DET | detail |
| DH | double hung |
| DIA | diameter |
| DIAG | diagonal |
| DIM | dimension |
| DIP | ductile iron pipe |
| DL | dead load |
| DS | downspout |
| DWG | drawing |
| DF | drinking fountain |
| EA | each |
| EF | each face |
| EIFS | exterior insulation finish system |
| EJ | expansion joint |
| ELEV | elevation/elevator |
| ELEC | electric (al) |
| ENGR | engineer |
| EOP | edge of pavement |
| EOS | edge of slab |
| EQ | equal |
| EW | each way |
| EWC | electric water cooler |
| EXH | exhaust |
| EXIST | existing |
| EXP | exposed |
| EXPN | expansion |
| EXT | exterior |
| FBO | furnished by others |
| FD | floor drain |
| FEC | fire extinguisher and cabinet |
| FFE | finish floor elevation |
| FFW | finish face of wall |
| FHC | fire hose and cabinet |
| F/F | face to face |
| FL | floor |
| FLG | flange |
| FND | foundation |
| FO | face of |
| FOB | face of brick |
| FOC | face of concrete |
| FOF | face of finish |
| FOM | face of masonry |
| FOS | face of stud |
| FR | frame (ed), (ing) |
| FRT | fire retardant treated |
| FT | foot/feet |
| FTG | footing |
| GA | gauge |
| GALV | galvanized |
| GB | grab bar |
| GHM | galvanized hollow metal |
| GI | galvanized iron |
| GWB | gypsum wall board |
| GYP | gypsum |
| H | height |
| HC | handicap |
| HM | hollow metal |
| HOD | highest operable device |
| HORIZ | horizontal |
| HP | high point/horse power |
| HSS | hollow structural steel |
| HT | height |
| HVAC | heating/ventilating/air conditioning |
| HW | hardware |
| ID | inside diameter |
| IE | invert elevation |
| IJ | isolation joint |
| IN | inch/inches |
| INSUL | insulation |
| JAN | janitor's closet |
| JG | joist girder |
| JT | joint |
| K | thousand |
| KIP | 1000 # |
| KJ | key joint |
| KSI | 1000 # per sq in |
| LAM | laminate (d) |
| LF | linear foot |
| L | length, angle |
| LAB | laboratory |
| LAV | lavatory |
| LH | left hand |
| LL | live load |
| LLH | long leg horizontal |
| LLV | long leg vertical |
| LP | low point |
| LT GA | light gauge |
| LT | light |
| MATL | material |
| MAX | maximum |
| MC | miscellaneous channel |
| MECH | mechanical |
| MEZZ | mezzanine |
| MANUF | manufacture (er) |
| MH | manhole |
| MIN | minimum |
| MO | masonry opening |
| MULL | mullion |
| NIC | not in contract |
| NO | number |
| NOM | nominal |
| NTS | not to scale |
| O/H | overhead |
| OC | on center (s) |
| OCC | occupant (s) |
| OD | outside diameter |
| OH | opposite hand |
| OPG | opening |
| OPP | opposite |
| PJ | precast joint |
| PL | property line, plate |
| PLAM | plastic laminate |
| PNT | paint (ed) |
| PREFAB | prefabricated |
| PREFIN | prefinished |
| PREMANUF | premanufactured |
| PSF | pounds per square foot |
| PSI | pounds per square inch |
| PT | point/pressure treated/ point of tangency |
| PVC | polyvinyl chloride |
| PVMT | pavement |
| PWD | plywood |
| QT | quarry tile |
| RA | return air |
| RAD | radius |
| RB | rubber base |
| RCP | reflected ceiling plan |
| RD | roof drain |
| REBAR | reinforcement bar |
| REF | refrigerator/ reference |
| REINF | reinforce (d), (ing) |
| REQ'D | required |
| RET | retaining |
| REV | revision (s), revised |
| RH | right hand |
| RJ | recessed joint |
| RM | room |
| RO | rough opening |
| ROW | right of way |
| RTU | roof top unit |
| SC | sealed concrete |
| SCHED | scheduled |
| SD | storm drain |
| SECT | section |
| SF | storefront |
| SIM | similar |
| SPEC | specification (s) |
| SQ | square |
| SS | solid surface |
| SST | stainless steel |
| STD | standard |
| STL | steel |
| STOR | storage |
| STRUCT | structural |
| SY | square yard |
| TELE | telephone |
| TERM | termination |
| T&G | tongue and groove |
| TH | thick (ness) |
| THK | thick (ness) |
| TO | top of |
| TOC | top of curb |
| TOGB | top of grab bar |
| TOF | top of footing |
| TOJ | top of joist |
| TOS | top of slab/top of steel |
| TOW | top of wall |
| TYP | typical |
| TZ | terrazzo |
| UNO | unless noted otherwise |
| VB | vinyl base |
| VCT | vinyl composition tile |
| VERT | vertical |
| VWC | vinyl wall covering |
| W | washer/width/wide flange |
| WB | wood base |
| WC | water closet |
| WD | wood |
| WH | water heater |
| WIN | window |
| WP | work point, waterproofing |
| WT | weight |
| W/W | wall to wall |
| WWF | welded wire fabric |
| W/ | with |
| W/O | without |

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INDEX & GENERAL INFORMATION

G1.01

TEMPLATE VERSION: 1.0

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# ACCESSIBLE ELEMENTS NOTES

01. **ACCESSIBILITY STANDARDS:** CONTRACTOR MUST BE FAMILIAR WITH AND, SHALL MAINTAIN ON THE JOB SITE, A COPY OF THE CURRENT ADAAG STANDARDS AND IBC CHAPTER 11 ACCESSIBILITY REQUIREMENTS (OR FLORIDA BUILDING CODE ACCESSIBILITY) AS APPLICABLE. DURING CONSTRUCTION THE GENERAL CONTRACTOR SHALL BE MINDFUL OF THESE ACCESSIBILITY REQUIREMENTS INCLUDING MOUNTING HEIGHTS AND FLOOR MANEUVERING CLEARANCES AND, IN THE EVENT THAT FIELD CONDITIONS WILL NOT ALLOW FOR ACCESSIBILITY REQUIREMENTS TO BE MAINTAINED IN A PARTICULAR CONDITION OR INSTALLATION, CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR FURTHER DIRECTION PRIOR TO PROCEEDING.

02. **ADA DEVICES:** ALL DEVICES AND FIXTURES DEPICTED HEREIN AND WHERE NOTED AS "ADA" OR "ACCESSIBLE" SHALL AT MINIMUM BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE BUILDING CODES. WHERE ACCESSIBILITY REQUIREMENTS MAY VARY BY JURISDICTION, FOLLOW THE MOST STRINGENT REQUIREMENTS.

03. **ADA MOUNTING HEIGHTS:** ALL MOUNTING HEIGHTS SHOWN ON THIS PAGE ARE TO BE MEASURED FROM THE TOP OF FLOOR FINISH (i.e. NOT FROM SUBFLOOR). THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE SPECIFIED FLOOR FINISH WHEN ESTABLISHING THE MOUNTING HEIGHTS OF ACCESSIBLE ITEMS.

04. **ADA PLAN DIMENSIONS:** ALL PLAN DIMENSIONS SHALL BE MEASURED FROM THE FINISH FACE OF SCHEDULED WALL FINISH. THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE SPECIFIED WALL FINISH e.g., WALL TILE, WHEN ESTABLISHING PLAN DIMENSIONS AND CLEARANCES FOR ACCESSIBLE ELEMENTS.

05. **PLUMBING ELEMENTS AND FIXTURES:** SEE PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED LOCATIONS AND MOUNTING HEIGHT OF PLUMBING ELEMENTS AND FIXTURES. SHOULD CONFLICT EXIST BETWEEN MOUNTING HEIGHTS AND/OR CLEARANCES INDICATED HEREIN AND THE REQUIREMENTS OF THE PLUMBING ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO ROUGH-IN.

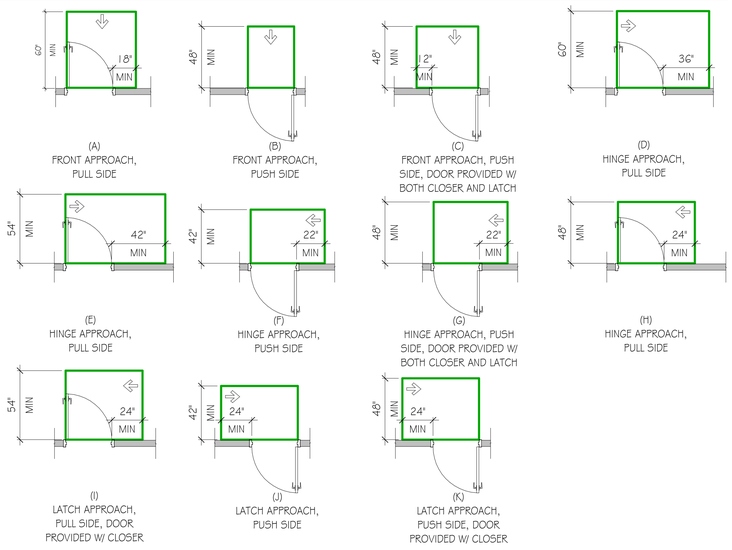
06. **ELECTRICAL DEVICES:** SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES. SHOULD CONFLICT EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATIONPRIOR TO ROUGH-IN.

# ABBREVIATIONS AND ACRONYMS

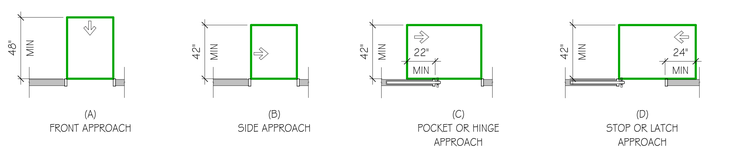
| | | | |
|---|---|---|---|
| AFF | ABOVE FINISHED FLOOR | MAX | MAXIMUM |
| BOGB | BOTTOM OF GRAB BAR | MIN | MINIMUM |
| FFE | FINISHED FLOOR ELEVATION | TOGB | TOP OF GRAB BAR |
| FFW | FINISH FACE OF WALL | WC | WATER CLOSET |
| FO | FACE OF | W/ | WITH |
| GB | GRAB BAR | W/O | WITHOUT |
| HOD | HIGHEST OPERABLE DEVICE | | |

# DOOR AND GATE MANEUVERING CLEARANCES

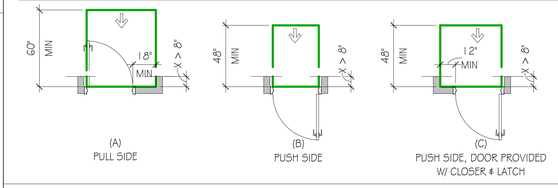
404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES




404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS

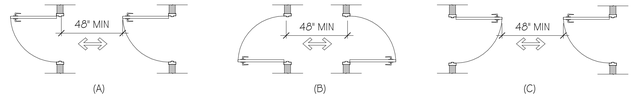



404.2.4.3 RECESSED DOORS AND GATES




404.2.4.3 RECESSED DOORS AND GATES. A DOOR CAN BE RECESSED DUE TO WALL THICKNESS OR BECAUSE OF CASEWORK AND OTHER FIXED ELEMENTS ADJACENT TO THE DOORWAY. THIS PROVISION MUST BE APPLIED WHEREVER DOORS ARE RECESSED.

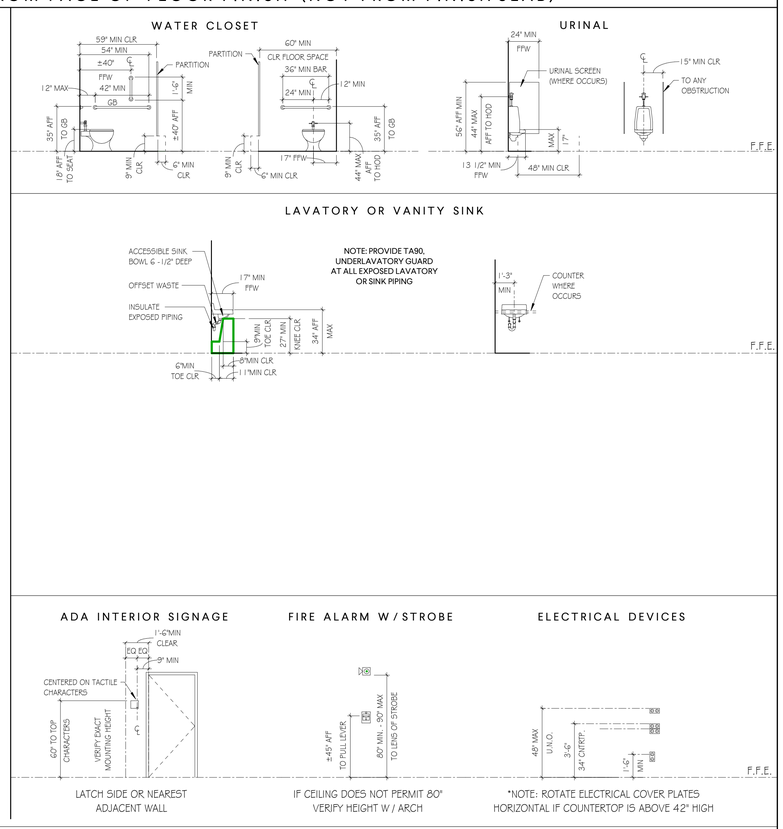
404.2.4.6 DOORS IN SERIES AND GATES IN SERIES



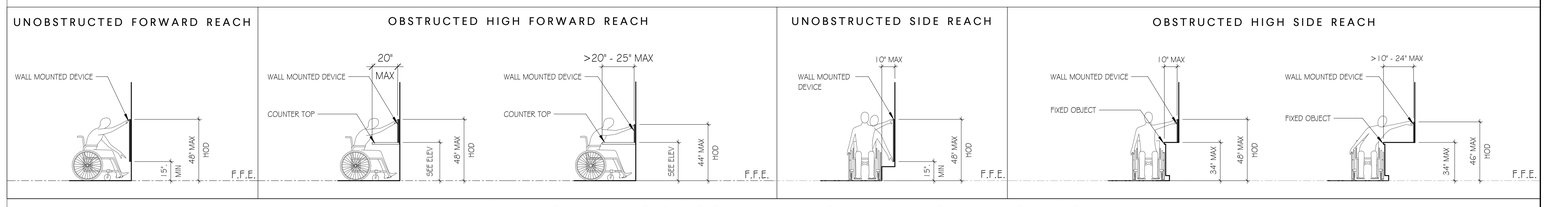

# ACCESSIBLE PLUMBING ELEMENTS AND FACILITIES - ELEVATION VIEW

SEE G1.12 FOR PLAN DETAILS

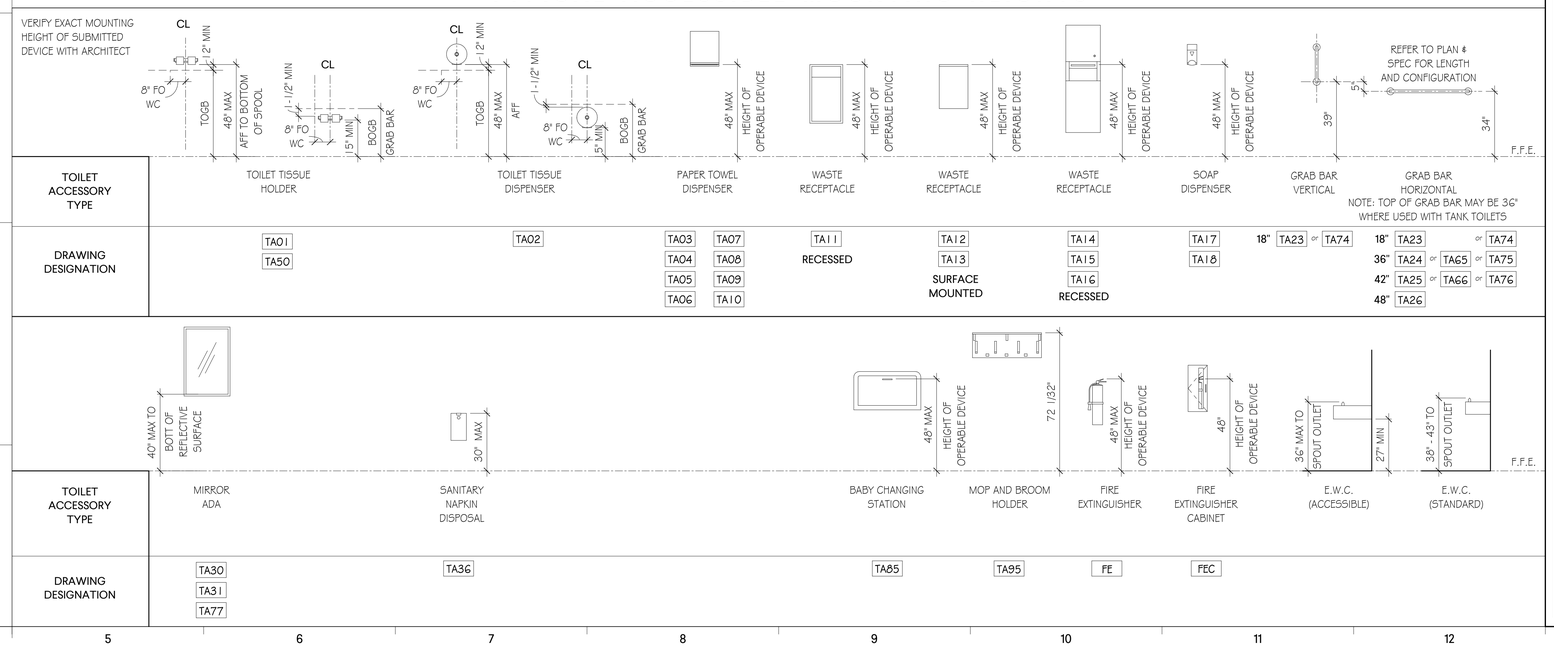
**IMPORTANT NOTE:** ALL HEIGHTS GIVEN BELOW ARE FROM FACE OF FLOOR FINISH (NOT FROM FINISH SLAB)




# TYPICAL REACH RANGES




# TYPICAL ACCESSIBLE MOUNTING HEIGHTS

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Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2.15.24 |
| DRAWN BY: | Author |
| CHECKED BY: | Checker |

MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

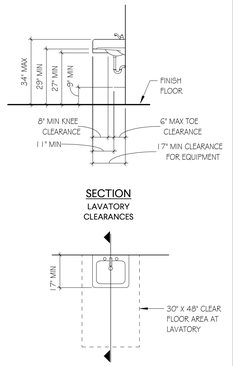
ACCESSIBILITY DATA

G1.12

2/20/2024 12:46:50 PM

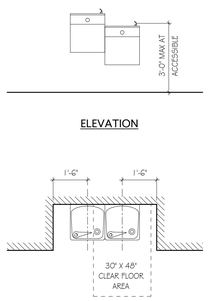
# ACCESSIBLE PLUMBING LAYOUTS - ADAAG / ANSI

## ACCESSIBLE LAVATORIES



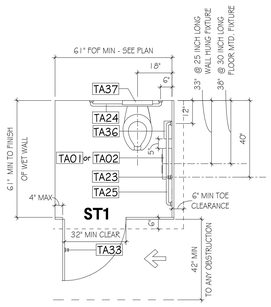

**ACCESSIBLE LAVATORY**

FRONT APPROACH



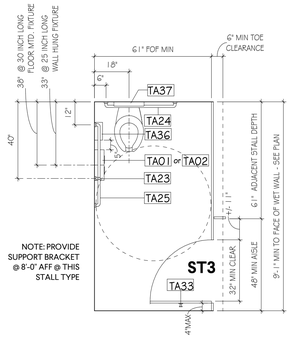

**FOUNTAIN / COOLER - HI-LO**

## ACCESSIBLE TOILET STALL OR COMPARTMENT LAYOUTS



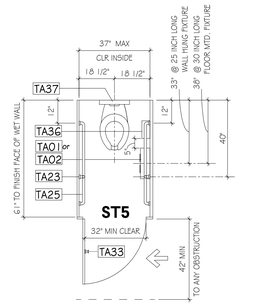

**WHEELCHAIR ACCESS. STALL**

PLAN DESIGNATION **ST1**




**WHEELCHAIR ACCESS. STALL - END OF ROW**

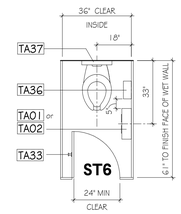
PLAN DESIGNATION **ST3**




**AMBULATORY ACCESSIBLE STALL**

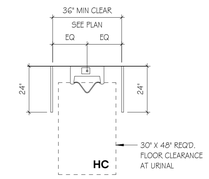
PLAN DESIGNATION **ST5**

## OTHER STALL LAYOUTS



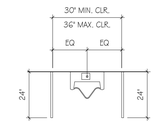

**STANDARD TOILET STALL**

PLAN DESIGNATION **ST6**




**ACCESSIBLE URINAL STALL**

PLAN DESIGNATION ST8




**STANDARD URINAL STALL**

PLAN DESIGNATION ST7

**NOTES - TOILETS & FIXTURES:**

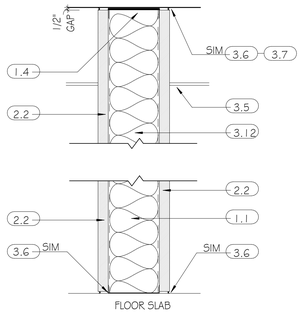
1. LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.

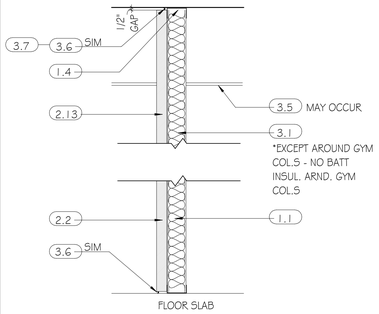
2. SANITARY NAPKIN DISPOSALS TO BE PROVIDED AT ALL FEMALE, UNISEX, & FAMILY TOILETS

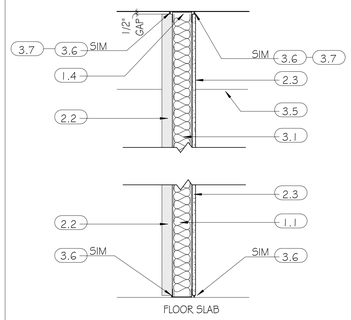
## PARTITION TYPES INTERIOR

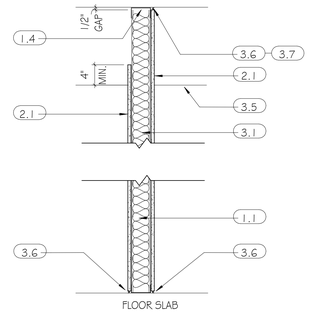
| DRAWING MARK | DESCRIPTION | STC | U.L. # |
|---|---|---|---|
| OL-2 | 0 HR. - METAL LINER PANEL<br>10" METAL STUD FRAMING w/ METAL PANEL AT BOTH SIDES<br>14" | -- | N/A |
| OL-1 | 0 HR. - METAL LINER PANEL- 1 SIDE<br>3 5/8" METAL STUD FRAMING<br>3.5 | -- | N/A |
| OL | 0 HR. - METAL LINER PANEL- 1 SIDE<br>8" METAL STUD FRAMING<br>0 HR. - GYPSUM - 1 SIDE<br>8 | -- | N/A |
| OG-2 | 0 HR. - GYPSUM (BOTH SIDES)<br>6" METAL STUD FRAMING<br>6 | 47 | N/A |
| OG-1 | 0 HR. - GYPSUM - 1 SIDED<br>3 5/8" METAL STUD FRAMING<br>3.5 | | |
| OG-1 | 0 HR. - GYPSUM - 1 SIDED<br>6" METAL STUD FRAMING<br>6 | | |
| 1MG | 1 HR. - CMU - GYPSUM FURRED | | |

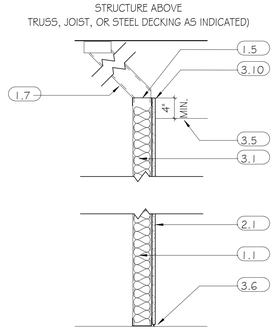
STRUCTURE ABOVE
TRUSS, JOIST, OR STEEL DECKING AS INDICATED)

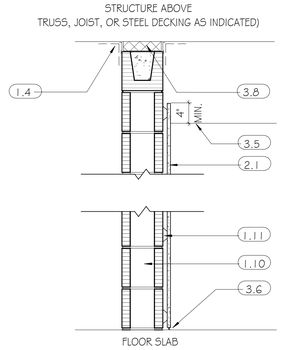



## PARTITION KEY

| | |
|---|---|
| 1G<br>6" | TYPE 1G<br>6" METAL STUDS |
| 1S<br>2.5" | TYPE 1S<br>2.5" METAL CH STUDS |
| OM<br>4" | TYPE OM<br>4" CMU |

PARTITION TYPE
FRAMING SIZE IN INCHES

## NUMBERED NOTES

1.1 Metal studs 16" OC Double-stud jambs full height at all door openings

1.4 Deflection track (0.0329 in. metal thickness). Maintain min. 1/2" stud gap

1.5 Continuous top track (0.0329 in. metal thickness)

1.7 Stud bracing min. 48 in. OC (24" OC at wall-hung cabinets)

1.10 CMU (UL Listed where applicable). See Structural for reinforcing, lintel, and top bracing requirements

1.11 At Interior furring: provide 7/8 in. hat-shaped metal furring

2.1 One layer 5/8 in. gyp. bd

2.2 2" acoustic metal liner panel

2.3 One layer 5/8 in. type 'X' gyp. bd

2.13 2" Metal liner panel

3.1 Sound attenuation batt insulation. Thickness varies - see plan.

3.12 Sound attenuation batt insulation. 10 in. thick

3.5 Acoustical ceiling panels. Where ceiling panels with combined NRC/CAC ratings of 0.70/35 (or better) are used, draped insulation may be omitted

3.6 Acoustical Sealant Joint. Provide continuous bead under each layer gyp bd

3.7 Acoustical Sealant Joint. At fluted decks, cope gyp. bd. to underside of deck. Fill voids with insulation. Apply acoustical sealant continuous at joint

3.8 UL Listed fire-resistance rated HW (head of wall) joint

3.10 Gypsum board shall extend fully to top of track to establish a draft stop assembly. Conduit turnouts and electrical boxes must stand clear of metal studs to allow for application of an uninterrupted gypsum membrane

## GENERAL NOTES - PARTITIONS

1. UL LISTED ASSEMBLIES
   A. WHERE UL ASSEMBLY NUMBERS ARE REFERENCED ABOVE, PARTITIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH REQUIREMENTS SET FORTH BY THE UL FIRE RESISTANCE DIRECTORY. NO DEVIATION SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT AND/OR BUILDING OFFICIAL.
2. FIRE BARRIERS, FIRE PARTITIONS, & SMOKE BARRIERS [FIRE-RATED]
   A. ALL PERIMETER JOINTS MUST BE PROTECTED BY UL LISTED FIRE-RESISTANT JOINT SYSTEMS.
   B. ALL PENETRATIONS OF RATED ASSEMBLIES MUST BE PROTECTED BY UL LISTED THROUGH-PENETRATION FIRESTOPPING ASSEMBLIES.
   C. FIRE DAMPERS MUST PROTECT HVAC DUCT PENETRATIONS.
   D. IDENTIFY FIRE WALLS, SMOKE BARRIERS, ETC., IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES, BY STENCILING "X-HOUR FIRE AND /OR SMOKE BARRIER" IN 3-INCH HIGH CONTRASTING LETTERS, 3/8-INCH MINIMUM STROKE. LOCATE WITHIN 15 FEET OF END OF WALL, AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
3. SMOKE PARTITIONS [NON-RATED]
   A. ALL PERIMETER JOINTS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
   B. ALL PIPING, ELECTRICAL, AND DUCT PENETRATIONS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
4. SOUND INSULATION
   A. INSULATION THICKNESS SHALL MATCH CAVITY DEPTH UNLESS NOTED OTHERWISE.
   B. INSULATE BEHIND RECESSED ITEMS IN ANY SCHEDULED ACOUSTIC PARTITIONS.
   C. INSULATION MAY BE OMITTED AT CHASES NOT EXCEEDING 10 S.F. IN AREA.
5. ACOUSTICAL SEALANT
   A. AT ALL GYP BOARD AND METAL STUD PARTITIONS: REQUIRED AT BOTTOM AND TOP RUNNERS AND AT WALL ANGLES WHERE DISSIMILAR MATERIALS MEET (SEE DETAILS).
   B. AT SCHEDULED ACOUSTIC PARTITIONS: AIRTIGHT SEAL IS REQUIRED AT ALL PENETRATIONS.
   C. ELECTRICAL AND OTHER BOXES TO BE WRAP-SEALED (SEE DETAILS).
6. PARTITION COORDINATION
7. A. COMPLY WITH "PARTITION COORDINATION WITH OTHER TRADES" REQUIREMENTS LOCATED UNDER "GENERAL NOTES" ON PROJECT INFORMATION DRAWING G1.00.


GMC

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117 Jefferson Street North
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GMCNETWORK.COM


Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2.15.24 |

DRAWN BY: VK
CHECKED BY: Checker

**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEY'S SPRING, ALABAMA 35754

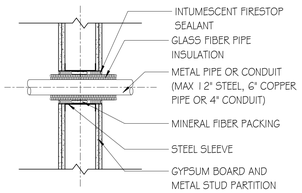
STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2.15.2024

GMC AHUN230008

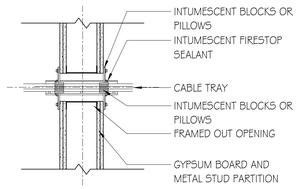
**PLUMBING LAYOUTS & PARTITION TYPES**

G1.21

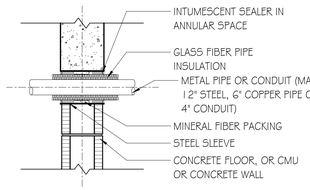
2/20/2024 12:46:52 PM




| | | |
|---|---|---|
| INSULATED METAL PIPE THRU GYPSUM PARTITION | A | W-L-5040 |
| | B | W-L-5029 |
| | C | W-L-5014 |

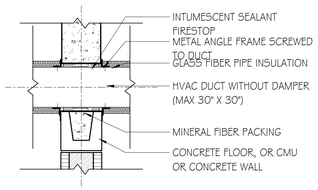



| | | |
|---|---|---|
| CABLE TRAY THRU GYPSUM PARTITION | A | W-L-4037 |
| | B | W-L-4011 |
| | C | W-L-4008 |



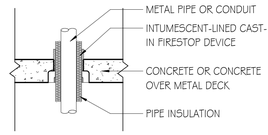

NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

| | | |
|---|---|---|
| INSULATED METAL PIPE THRU CMU / CONC WALL OR CONC FLOOR | A | C-AJ-5024 |
| | B | C-AJ-5096 |
| | C | C-AJ-5087 |

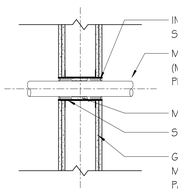



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

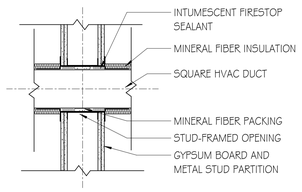
| | | |
|---|---|---|
| INSULATED HVAC DUCT THRU CMU / CONC WALL OR CONC FLOOR | A | C-AJ-7115 |
| | B | WL-7059 |
| | C | C-AJ-7143 |



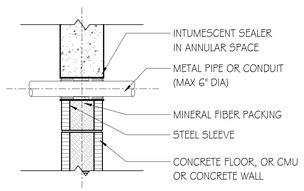

| | | |
|---|---|---|
| INSULATED METAL PIPE THRU CONC OR CONC ON METAL DECK | A | F-A-5029 |
| | B | F-A-5015 |
| | C | F-A-5041 |




| | | |
|---|---|---|
| SINGLE UNINSULATED METAL PIPE THRU GYPSUM BOARD PARTITION | A | W-L-1001 |
| | B | W-L-1054 |
| | C | W-L-1088 |

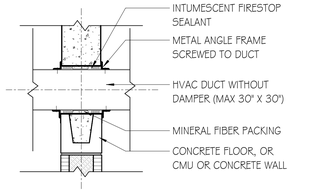



| | | |
|---|---|---|
| INSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION | A | W-L-7195 |
| | B | W-L-7059 |
| | C | W-L-7178 |



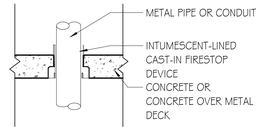

NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

| | | |
|---|---|---|
| SINGLE UNINSULATED METAL PIPE THRU CONC FLOOR/WALL OR CMU WALL | A | C-AJ-1044 |
| | B | C-AJ-1226 |
| | C | C-AJ-1080 |

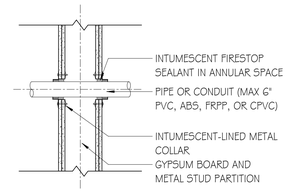



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

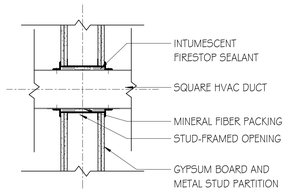
| | | |
|---|---|---|
| UNINSULATED HVAC DUCT THRU CONC FLOOR / WALL OR CMU WALL | A | C-AJ-7016 |
| | B | WL-7109 |
| | C | C-AJ-7027 |



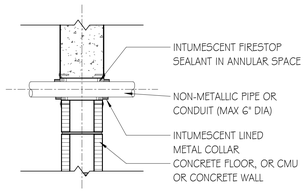

| | | |
|---|---|---|
| SINGLE UNINSULATED METAL PIPE THRU CONC OVER METAL FLOOR | A | F-A-1067 |
| | B | F-A-1017 |
| | C | F-A-1110 |




| | | |
|---|---|---|
| SINGLE NONMETALLIC METAL PIPE THRU GYPSUM BOARD PARTITION | A | W-L-2073 |
| | B | W-L-2078 |
| | C | W-L-2029 |

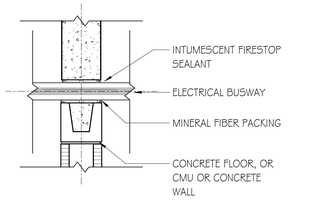



| | | |
|---|---|---|
| UNINSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION | A | W-J-7169 |
| | B | W-L-7040 |
| | C | W-L-7056 |



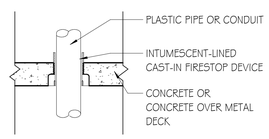

NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

| | | |
|---|---|---|
| SINGLE NONMETALLIC PIPE THRU CONC FLOOR / WALL OR CMU WALL | A | C-AJ-2005 |
| | B | C-AJ-2109 |
| | C | C-AJ-2038 |

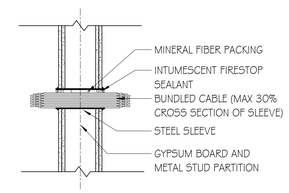



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

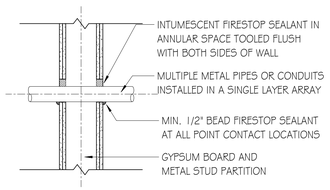
| | | |
|---|---|---|
| BUSWAY THRU CONC FLOOR / WALL OR CMU WALL | A | C-AJ-6002 |
| | B | C-AJ-6017 |
| | C | C-AJ-6008 |



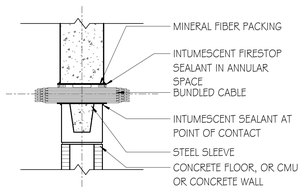

| | | |
|---|---|---|
| SINGLE NONMETALLIC PIPE THRU CONCRETE OVER METAL FLOOR | A | F-A-2097 |
| | B | F-A-2054 |
| | C | F-A-2192 |




| | | |
|---|---|---|
| SINGLE OR BUNDLED CABLE THRU GYPSUM BOARD PARTITION | A | W-L-3031 |
| | B | W-L-3065 |
| | C | W-L-3133 |

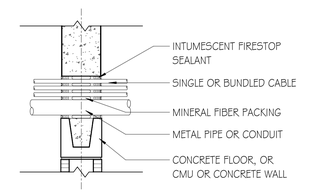



| | | |
|---|---|---|
| MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION | A | W-L-1389 |
| | B | W-L-1228 |
| | C | W-L-1168 |

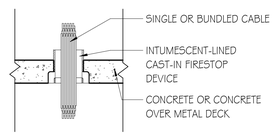



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP ONE SIDE AT FLOORS

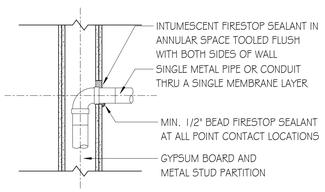
| | | |
|---|---|---|
| BUNDLED CABLE THRU CONC FLOOR / WALL OR CMU WALL | A | C-AJ-3021 |
| | B | C-AJ-3095 |
| | C | C-AJ-3043 |



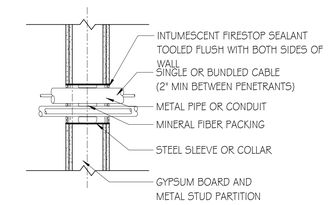

| | | |
|---|---|---|
| MULTIPLE PENETRATIONS THRU CONCRETE FLOOR /WALL OR CMU WALL | A | C-AJ-8003 |
| | B | C-AJ-8143 |
| | C | C-AJ-8053 |



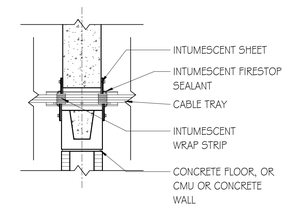

| | | |
|---|---|---|
| SINGLE OR BUNDLED CABLE THRU CONCRETE OVER METAL FLOOR | A | F-A-3017 |
| | B | F-A-3007 |
| | C | F-A-3055 |




| | | |
|---|---|---|
| MEMBRANE PENETRATIONS THRU GYPSUM BOARD PARTITION | A | W-L-1410 |
| | B | W-L-1353 |
| | C | -------- |




| | | |
|---|---|---|
| MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION | A | W-L-8010 |
| | B | W-L-8079 |
| | C | W-L-8026 |




| | | |
|---|---|---|
| CABLE TRAY THRU CONC FLOOR / WALL OR CMU WALL | A | C-AJ-4003 |
| | B | C-AJ-4035 |
| | C | C-AJ-4022 |

# GENERAL THRU-PENETRATION NOTES

NOT ALL APPLY TO THIS PROJECT

1. GENERAL
   A. ALL THROUGH-PENETRATION FIRESTOP WORK SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 07841 – THROUGH PENETRATION FIRESTOP SYSTEMS.
   B. THE DETAILS SHOWN HEREIN ILLUSTRATE FREQUENTLY ENCOUNTERED THROUGH-PENETRATION FIRESTOP CONDITIONS. THEY ARE GENERIC REPRESENTATIONS OF SYSTEMS AVAILABLE FROM SEVERAL MANUFACTURERS.
   C. SELECTION OF APPROPRIATE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE FIRESTOP CONTRACTOR, AND MUST BE SUBMITTED FOR ARCHITECT'S APPROVAL. EACH SELECTION SHALL BE APPROPRIATE FOR THE PENETRATING ITEM AND SUBSTRATE, AND SHALL COMPLY WITH THE SPECIFIC REQUIREMENTS OF A UL LISTED SYSTEM DESIGN.
   D. WHERE NO APPLICABLE UL DESIGN IS AVAILABLE FOR A PARTICULAR FIRESTOP CONFIGURATION, SUBMIT AN ENGINEERING JUDGMENT (EJ), OR EQUIVALENT FIRE RESISTANCE RATED ASSEMBLY (EFRRA), PREPARED BY THE FIRESTOP MANUFACTURER.
2. APPLICABILITY
   A. PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR ALL PENETRATIONS (INCLUDING SINGLE-SIDED MEMBRANE PENETRATIONS) OF FIRE RESISTANCE RATED CONSTRUCTION, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS (APPLICABLE TO BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS).
   B. ALL PIPING AND DUCTWORK SUBJECT TO MOVEMENT SHALL BE FIRESTOPPED WITH FLEXIBLE FIRE RATED SEALANT.
   C. TO EXTENT THAT APPROPRIATE UL DESIGNS ARE AVAILABLE FOR SUBSTRATE REQUIRED, USE THE FOLLOWING APPROACH TO SELECTION OF SYSTEMS:
      a. FOR SIMPLE PENETRATIONS: ONE-PART FIRESTOP SEALANT
      b. FOR COMPLEX PENETRATIONS: FOAMED-IN-PLACE FIRESTOP SEALANT
      c. FOR INSULATED METAL PIPE: INTUMESCENT WRAP STRIP AND ONE-PART FIRESTOP SEALANT.
      d. FOR DUCTS OR VENTS:
      e. FOR CABLE TRAYS OR RACEWAYS:
3. SLEEVING
   A. THE FOLLOWING PENETRATIONS MUST BE SLEEVED:
      a. SINGLE ROUND PENETRATIONS IN RATED CMU WALLS
      b. INSULATED PIPE PENETRATIONS IN RATED GYPSUM BOARD WALLS
      c. BUNDLED CABLE PENETRATIONS IN RATED GYPSUM BOARD WALLS
      d. ALL PENETRATIONS IN ELEVATED CONCRETE SLABS.
   B. ALL SLEEVES SHALL BE METAL. PLASTIC IS NOT PERMITTED. THE JUNCTURE OF STEEL SLEEVES AND WALL SHALL BE SEALED WITH FLEXIBLE FIRE RATED SEALANT.
4. QUALITY ASSURANCE
   A. COMPLY WITH "INSTALLER QUALIFICATIONS" AND "ON-SITE RESPONSIBLE PARTY" PROVISIONS OF SPECIFICATION SECTION 07841 – THROUGH-PENETRATION FIRESTOP SYSTEMS.
   B. OBTAIN THROUGH-PENETRATION FIRESTOP SYSTEMS THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
   C. COMMENCE FIRESTOPPING WORK ONLY AFTER SUBMITTALS (INCLUDING MOCKUPS WHERE APPLICABLE) ARE APPROVED, AND PRE-INSTALLATION CONFERENCE IS SUCCESSFULLY CONCLUDED.
5. INSTALLATION – GENERAL
   A. COMPLY WITH UL SYSTEM REQUIREMENTS AND FIRESTOPPING MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS.
   B. INSTALL FORMING /DAMMING /BACKING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
   C. INSTALL FILL MATERIALS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:
      a. FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED,
      b. APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES FORMED BY OPENINGS AND PENETRATING ITEMS,
      c. FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.
   D. REMOVE COMBUSTIBLE FORMING MATERIALS, AND OTHER ACCESSORIES, THAT ARE NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS.
   E. REMOVE EXCESS SEALANT FROM ADJOINING SURFACES.
   F. IDENTIFY THROUGH PENETRATION FIRESTOP SYSTEMS WITH PERMANENTLY ATTACHED, PREPRINTED METAL OR PLASTIC LABELS, AS SPECIFIED. INSPECT FILL MATERIALS AFTER 48 HOURS FOR COMPLETE ADHESION AND
   G. SEAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CORRECT DEFICIENCIES AND RE-INSPECT.

GMC

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Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2.15.24 |

DRAWN BY: Author
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**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

STATE of ALABAMA
Jay W Purkey
9063
Owen Evans Roads
Alabama
REGISTERED ARCHITECT
2-15-2024

GMC AHUN230008

**FIRESTOPPING - THRU-PENETRATION SYSTEMS**

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## A1 FIRST FLOOR LIFE SAFETY PLAN

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

TRUE NORTH

## ADA ACCESSIBILITY GUIDELINES (ADAAG) - ELEVATOR:

*WHILE THE GUIDELINES EMPHASIZE GENERAL USABILITY FOR INDIVIDUALS w/ DISABILITIES, THEY DO NOT SPECIFICALLY MANDATE ELEVATORS FOR ELEVATED WALKING TRACKS. HOWEVER, IF THE ELEVATED TRACK IS PART OF A LARGER RECREATION CENTER BUILDING WITH MULTIPLE STOREIS, THE ELEVATOR REQUIREMENT MAY APPLY BASED ON THE TOTAL NUMBER OF STORIES.*

## APPLICABLE CODES & REGULATIONS

| | |
|---|---|
| 2009 | INTERNATIONAL BUILDING CODE (IBC) |
| 2009 | INTERNATIONAL FUEL GAS CODE (IFGC) |
| 2009 | INTERNATIONAL MECHANICAL CODE (IMC) |
| 2009 | INTERNATIONAL PLUMBING CODE (IPC) |
| 2009 | INTERNATIONAL FIRE CODE (IFC) |
| 2008 | NATIONAL ELECTRICAL CODE (NEC) |
| 2009 | INTERNATIONAL ENERGY CONSERVATION CODE (IECC) |
| 2013 | ANSI/ASHRAE/IESNA STANDARD 90.1 |
| 2010 | STANDARDS FOR ACCESSIBLE DESIGN |
| 2009 | NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72) |

## OCCUPANCY CLASSIFICATION

| | |
|---|---|
| OCCUPANCY | ASSEMBLY GROUP A-4; SPRINKLERED |

## CONSTRUCTION CLASSIFICATION

| | | |
|---|---|---|
| CONSTRUCTION TYPE | TYPE IIB | |
| HEIGHT | ALLOWABLE: 160 FT | ACTUAL: 38 FT |
| # OF STORIES | ALLOWABLE: 11 STORIES | ACTUAL: 1 STORIES |
| AREA PER FLOOR | ALLOWABLE: UNLIMITED | ACTUAL: 28,280 SF |
| HEIGHT MODIFICATIONS | N/A | |
| AREA MODIFICATIONS | N/A | |

## MEANS OF EGRESS

| | | |
|---|---|---|
| EXIT ACCESS TRAVEL DISTANCE TO EXIT | 250 FT (WITH SPRINKLER SYSTEM) | |
| COMMON PATH OF TRAVEL | 75 FT MAX. | |
| DEAD END LENGTH | 20 FT | |
| EGRESS OCCUPANTS | 1,311 OCCUPANTS | |
| EGRESS WIDTH | REQUIRED: 0.2" PER OCC. 0.2" x 1,311 OCCUPANTS = 262.2" | PROVIDED: 544" |

## FIRE RESISTANCE-STRUCT. ELEMENTS

| STRUCTURAL ELEMENT | IBC TYPE TBL. 601 | RESISTANCE PROVIDED | |
|---|---|---|---|
| | | RATING | ACHIEVED BY |
| PRIMARY STRUCTURAL FRAME | 0 HR | N/A | N/A |
| BEARING WALLS | | | |
| - EXTERIOR | 0 HR * | N/A | N/A |
| - INTERIOR | 0 HR | N/A | N/A |
| NONBEARING WALLS AND PARTITIONS | | | |
| - EXTERIOR | 0 HR * | N/A | N/A |
| - INTERIOR | 0 HR | N/A | N/A |
| FLOOR CONSTRUCTION | 0 HR | N/A | N/A |
| ROOF CONSTRUCTION | 0 HR | N/A | N/A |

* 0 HR FIRE-RESISTANCE RATING REQUIRED PER TABLE 602.

## FIRE RESISTANCE -WALLS & PARTITIONS

| WALLS AND PARTITIONS | IBC TBL. 716.5 | OPENING PROTECTION | RESISTANCE PROVIDED | |
|---|---|---|---|---|
| | | | RATING | ACHIEVED BY |
| SHAFT ENCLOSURES | | | | |
| * LESS THAN 4 STORIES | N/A | N/A | N/A | N/A |
| * 4 OR MORE STORIES | N/A | N/A | N/A | N/A |
| FIRE WALLS | N/A | N/A | N/A | N/A |
| HORIZONTAL EXITS | N/A | N/A | N/A | N/A |
| EXIT PASSAGEWAYS | N/A | N/A | N/A | N/A |
| SMOKE BARRIERS | N/A | N/A | N/A | N/A |
| EXIT STAIRWAY | 1 HR | 1 HR | 1 HR | UL #U905 |

## FIRE RESISTANCE - HORIZONTAL ASSEMBLIES

| HORIZONTAL ASSEMBLIES | IBC | RESISTANCE PROVIDED | |
|---|---|---|---|
| | | RATING | ACHIEVED BY |
| N/A | N/A | N/A | N/A |

## PLUMBING FIXTURE TABULATIONS

| LEVEL | OCCUPANCY | CALCULATIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | OCCUPANT LOAD | WC | | LAV | | DRINKING FOUNTAINS | SVC SINKS |
| | | | M | F | M | F | | |
| 1 | EXERCISE - GYM 15 NET/OCC | 1,224 612M 612W | 5 | 10 | 3 | 3 | 1 | 1 |
| | A - MULT-PURP. 15 NET SF/OCC | 80 40M 40W | 1 | 1 | 1 | 1 | 1 | -- |
| | BUSINESS 100 GROSS/OCC | 2 1M 1W | 1 | 1 | 1 | 1 | -- | -- |
| | M/ES 300 GROSS/OCC | 4 2M 2W | 1 | 1 | 1 | 1 | -- | -- |
| | KITCHEN/CONC. 200 GR SF/OCC | 3 2M 2W | 1 | 1 | 1 | 1 | -- | -- |
| TOTAL | REQUIRED | | 9 | 14 | 7 | 7 | 2 | 1 |
| | PROVIDED | | 10 | 17 | 8 | 9 | 2 | 1 |

## OVERALL BUILDING AREA

| LEVEL | AREA (GROSS SQUARE FEET) |
|---|---|
| 1 | 28,280 GSF |
| MEZZ | 6,347 GSF (NOT CALCULATED w/ GROSS, THIS AREA IS CONTAINED IN GYM) |
| TOTAL | 34,627 GSF |

## LIFE SAFETY PLAN LEGEND

- NON-RATED PARTITION
- 1 HR RATED PARTITION
- FE — WALL-MOUNTED F.E.
- FEC — FIRE EXT. CABINET
- AID — FIRST AID KIT
- EXIT SIGN
- EXIT SIGN W/ DIRECTIONAL INDICATOR
- FP — FIRE ALARM PULL STATION
- 75' FIRE EXTINGUISHER RADIUS
- HS — VISUAL HORN/ STROBE FIRE ALARM
- FH — AUDIBLE HORN FIRE ALARM
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- 184' — MAX. TRAVEL DISTANCE TO EXIT
- 65' — COMMON PATH OF TRAVEL
- 68 / 340 — CLEAR EXIT WIDTH (IN.) / OCC. LOAD SERVED
- X — DOOR RATING (IN MIN.S)
- ACC — ADA ACCESSIBLE ROUTE

GMC

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Morgan County, Alabama

| ISSUE | DATE |
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| ISSUED FOR BID | 2.15.24 |

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**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEY'S SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owen Lyons Roads
Alabama
REGISTERED ARCHITECT
2-15-2024

**FIRST FLOOR LIFE SAFETY PLAN**

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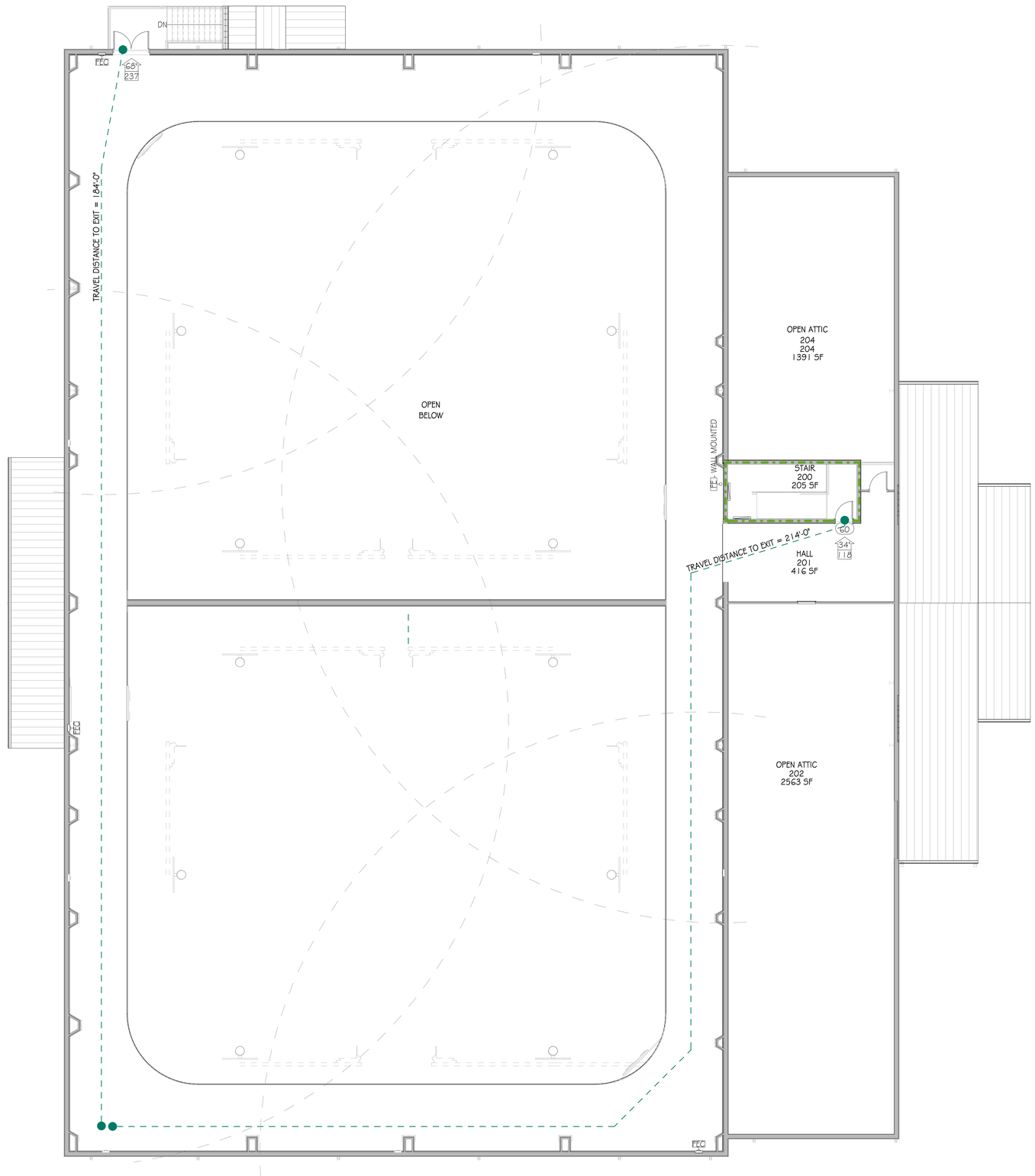


TRUE NORTH

# A5 SECOND FLOOR LIFE SAFETY PLAN

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

## ADA ACCESSIBILITY GUIDELINES (ADAAG) - ELEVATOR:

*WHILE THE GUIDELINES EMPHASIZE GENERAL USABILITY FOR INDIVIDUALS w/ DISABILITIES, THEY DO NOT SPECIFICALLY MANDATE ELEVATORS FOR ELEVATED WALKING TRACKS. HOWEVER, IF THE ELEVATED TRACK IS PART OF A LARGER RECREATION CENTER BUILDING WITH MULTIPLE STORIES, THE ELEVATOR REQUIREMENT MAY APPLY BASED ON THE TOTAL NUMBER OF STORIES.*

## APPLICABLE CODES & REGULATIONS

| | |
|---|---|
| 2009 | INTERNATIONAL BUILDING CODE (IBC) |
| 2009 | INTERNATIONAL FUEL GAS CODE (IFGC) |
| 2009 | INTERNATIONAL MECHANICAL CODE (IMC) |
| 2009 | INTERNATIONAL PLUMBING CODE (IPC) |
| 2009 | INTERNATIONAL FIRE CODE (IFC) |
| 2008 | NATIONAL ELECTRICAL CODE (NEC) |
| 2009 | INTERNATIONAL ENERGY CONSERVATION CODE (IECC) |
| 2013 | ANSI/ASHRAE/IESNA STANDARD 90.1 |
| 2010 | STANDARDS FOR ACCESSIBLE DESIGN |
| 2009 | NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72) |

## OCCUPANCY CLASSIFICATION

| | |
|---|---|
| OCCUPANCY | ASSEMBLY GROUP A-4; SPRINKLERED |

## CONSTRUCTION CLASSIFICATION

| | | |
|---|---|---|
| CONSTRUCTION TYPE | TYPE IIB | |
| HEIGHT | ALLOWABLE: 160 FT | ACTUAL: 38 FT |
| # OF STORIES | ALLOWABLE: 11 STORIES | ACTUAL: 1 STORIES |
| AREA PER FLOOR | ALLOWABLE: UNLIMITED | ACTUAL: 28,280 SF |
| HEIGHT MODIFICATIONS | N/A | |
| AREA MODIFICATIONS | N/A | |

## MEANS OF EGRESS (MEZZ. ONLY)

| | | |
|---|---|---|
| EXIT ACCESS TRAVEL DISTANCE TO EXIT | 250 FT (WITH SPRINKLER SYSTEM) | |
| COMMON PATH OF TRAVEL | 75 FT MAX. | |
| DEAD END LENGTH | 20 FT | |
| EGRESS OCCUPANTS (MEZZ.) | 355 OCCUPANTS | |
| EGRESS WIDTH | REQUIRED: 0.2" PER OCC. 0.2" x 355 OCCUPANTS = 71" | PROVIDED: 102" |

## OVERALL BUILDING AREA

| LEVEL | AREA (GROSS SQUARE FEET) |
|---|---|
| 1 | 28,280 GSF |
| MEZZ | 6,347 GSF (NOT CALCULATED w/ GROSS, THIS AREA IS CONTAINED IN GYM) (TRACK NET AREA: 1,778 SQ FT) |
| TOTAL | 34,627 GSF |

## LIFE SAFETY PLAN LEGEND

- NON-RATED PARTITION
- 1 HR RATED PARTITION
- FE — WALL-MOUNTED F.E.
- FEC — FIRE EXT. CABINET
- AID — FIRST AID KIT
- EXIT SIGN
- EXIT SIGN W/ DIRECTIONAL INDICATOR
- FP — FIRE ALARM PULL STATION
- 75' FIRE EXTINGUISHER RADIUS
- HS — VISUAL HORN/ STROBE FIRE ALARM
- FH — AUDIBLE HORN FIRE ALARM
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- 214' — MAX. TRAVEL DISTANCE TO EXIT
- 65' — COMMON PATH OF TRAVEL
- CLEAR EXIT WIDTH (IN.)
- 68 / 340 — OCC. LOAD SERVED
- X — DOOR RATING (IN MIN.S)
- ACC — ADA ACCESSIBLE ROUTE

GMC

Goodwyn Mills Cawood, LLC
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Huntsville, AL 35801
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Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2.15.24 |

DRAWN BY: Author
CHECKED BY: Checker

MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEY'S SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

MEZZANINE FLOOR LIFE SAFETY PLAN

G2.02

2/20/2024 12:46:59 PM TEMPLATE VERSION: 1.0

# Best Management Practices Notes

1. ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, (MARCH 2009 ed. OR MOST CURRENT) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK MAY BE PURCHASED FROM THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY THROUGH THE COUNTY SOIL AND WATER CONSERVATION FOUNDATION. ORDER FORMS ARE AVAILABLE ON THE HOME PAGES OF THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY (http:\www.alchapterswcs.aces.edu) AND THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE (https://alconservationdistricts.gov/) AND AT LOCAL SOIL AND WATER CONSERVATION DISTRICT OFFICES IN EACH COUNTY.

2. THE MAINTENANCE OF ALL BEST MANAGEMENT PRACTICES, SO AS TO BE AN EFFECTIVE BARRIER TO EROSION AND SEDIMENTATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.

3. OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS, ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY.

4. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL WITHIN THIRTEEN (13) DAYS OF THE COMPLETION OF SUCH GRADING OR THE COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE BE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE BMPs SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPE OR FILL IS STABILIZED.

5. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT (PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS) SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ONSITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING TRASH FROM ENTERING THE STORM DRAINAGE SYSTEM.

6. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE OF 0.75 INCH WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS, WHICH SHALL BE SUBJECT TO THE INSPECTION OF THE OFFICIAL AT ANY REASONABLE TIME.

7. DISTURBED AREA = 5.0+/- Acres

8. APPROXIMATE START DATE: APRIL 2024. APPROXIMATE END DATE: APRIL 2025.

9. EXISTING SITE CONDITIONS: EXISTING GRASS FIELD.

10. ALL MATERIALS SHALL BE PROPERLY STORED, NOT EXPOSED TO RAIN, AND STOCKPILED. ALL CONTAINERS SHALL BE STORED CLOSED OR IN COVER. ALL EXCESS OR WASTE MATERIAL SHALL BE DISPOSED OF PROPERLY. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION WASTE DUMPSTER OR TRAILER ON SITE FOR CONSTRUCTION WASTE. THE CONTRACTOR SHALL DISPOSE OF TRASH AND WASTE TO AN ACCEPTABLE OFFSITE FACILITY EVERY 10 DAYS MINIMUM.

11. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL, OR OTHER MATTER CONTAINED IN THE STORM WATER DISCHARGE TO A RECEIVING WATER, MUST NOT CAUSE AN UNNATURAL COLOR (EXCEPT DYES OR OTHER SUBSTANCES DISCHARGED FOR THE PURPOSE OF ENVIRONMENTAL STUDIES AND WHICH DO NOT HAVE A HARMFUL EFFECT ON THE RECEIVING WATER), OR ODOR IN THE RECEIVING WATERS. THE STORM WATER DISCHARGE TO RECEIVING WATER MUST RESULT IN NO MATERIAL IN CONCENTRATION SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE OR FISH AND AQUATIC LIFE IN THE RECEIVING WATER.

12. WHEN THE LAND-DISTURBING ACTIVITY IS FINISHED AND STABLE VEGETATION OR OTHER PERMANENT CONTROLS HAVE BEEN ESTABLISHED ON ALL REMAINING EXPOSED SOIL, THE OWNER OF THE LAND WHERE THE LAND-DISTURBING ACTIVITY WAS CONDUCTED, OR HIS AUTHORIZED AGENT, SHALL NOTIFY THE OFFICIAL OF THESE FACTS AND REQUEST A FINAL INSPECTION. THE OFFICIAL SHALL THEN INSPECT THE SITE WITHIN 5 WORKING DAYS AFTER RECEIPT OF NOTICE, AND MAY REQUIRE ADDITIONAL MEASURES TO STABILIZE THE SOIL AND CONTROL EROSION AND SEDIMENTATION AS REQUIRED.

13. THE CONTRACTOR SHALL MINIMIZE THE TRACKING OF MUD AND DEBRIS ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION EXIT PAD AS NOTED ON THE PLANS AND MAINTAIN IT ON A REGULAR BASIS AS AN EFFECTIVE MEASURE FOR REMOVING MUD AND DEBRIS FROM EQUIPMENT TIRES FROM BEING TRACKED FROM THE SITE ONTO ADJACENT ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SPRAY HOSE FOR WASHING OF TIRES AND EQUIPMENT, THE PERIODIC REWORKING OF THE CONSTRUCTION EXIT PAD STONE, OR SUPPLEMENTING THE EXIT PAD WITH ADDITIONAL STONE AS REQUIRED TO ENSURE ITS CONTINUED EFFECTIVENESS THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AT HIS EXPENSE ANY MUD AND DEBRIS TRACKED OFFSITE AND ONTO ADJACENT ROADWAYS AS REQUIRED.

14. ALL EXISTING AND NEW STORM DRAINAGE INLETS, STRUCTURES, AND PIPES SHALL BE CLEANED OF TRASH AND SEDIMENTS ON A REGULAR BASIS, WEEKLY AT A MINIMUM, SO AS NOT TO ALLOW DOWNSTREAM POLLUTION OF RECEIVING WATERS OR THE ESCAPING OF SEDIMENTS OFF SITE.

15. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING DUST TO A MINIMUM THROUGH THE USE OF WATER TRUCKS OR OTHER DUST CONTROLLING METHODS THROUGHOUT THE CONSTRUCTION PERIOD.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EROSION AND SILTATION OFF OF ADJACENT AND DOWNSTREAM PROPERTIES AND/OR ADJOINING SITES. AT HIS EXPENSE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SEDIMENTS AND DEBRIS ESCAPING THIS PROJECT SITE, THE REMEDIATION AND/OR REPAIR OF ANY DAMAGE THAT MAY OCCUR AS A RESULT TO ADJOINING AND/OR DOWNSTREAM AFFECTED PROPERTIES OR OFFSITE STRUCTURES, AND ANY FINES OR PENALATIES LEVIED AGAINST THE PROJECT BY REGULATORY AGENCIES DUE TO DEFICIENCIES OF CONTROL MEASURES.

18. ALL DISTURBED AND REGRADED AREAS NOT TO BE PAVED SHALL RECEIVE TOPSOIL AND BE SEEDED AND MULCHED ACCORDING TO A.L.D.O.T. PERMANENT SEEDING SCHEDULES, COVERED WITH SOLID SOD, OR AS SHOWN ON THE LANDSCAPE PLAN (IF ANY). LOCALIZED EROSION AND RILLS SHALL BE REPAIRED AS NECESSARY AT THE CONTRACTORS EXPENSE. AREAS TO BE SEEDED SHALL RECEIVE 4" OF TOPSOIL AND AREAS TO BE SODDED SHALL RECEIVE 2" (MIN.) OF TOPSOIL. ACCOUNT FOR THICKNESS OF TOPSOIL WITH RESPECT TO FINISHED GRADES.

# General Notes

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND CONDITIONS OF ALL UTILITIES TO BE UTILIZED FOR CONSTRUCTION SERVICE HOOK UPS, STORM SEWERS AND SANITARY SEWERS PRIOR TO PROCEEDING WITH THE LAYING OF PIPE. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES. ALL SERVICE CONNECTIONS TO UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY AND SHALL CONFORM TO THE LATEST SPECIFICATIONS.

2. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES CONCERNING CONFLICTS, RELOCATION, REMOVAL, AND INTERRUPTIONS OF SERVICE.

3. THE WORK REQUIRED TO RELOCATE, REMOVE, INSTALL, REPLACE, ETC. UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITHIN THE LIMITS OF WORK.

4. THE CONTRACTOR SHALL BE IN POSSESSION OF ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION EFFORTS.

5. ANY CHANGES OR REVISIONS MADE TO THE SITE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE CITY OF LACEYS SPRING AND ALL OTHER PERTINENT AGENCIES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXTENT, LOCATION AND ELEVATION OF THE EXISTING IMPROVEMENTS. IF ANY SIGNIFICANT DIFFERENCE IN SITE CONDITION OR ELEVATION IS FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.

7. UNSTABLE AND PUMPING SUB GRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND UNDERCUTTING OPERATIONS. PROPER PROTECTION OF SUB GRADE, DRAINAGE AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.

8. SEE THE GEOTECHNICAL INVESTIGATION FOR GENERAL EARTHWORK AND PAVEMENT EVALUATIONS AND RECOMMENDATIONS. SPECIFIC CONSTRUCTION CONCERNS AND ACTUAL CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE INVESTIGATION AND THE EVALUATIONS AND RECOMMENDATIONS CONTAINED THEREIN.

9. ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SAID CONSULTANT IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF RESULTING REPORTS.

10. ALL EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF SITE.

11. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTER OF STRIPE, FACE OF BUILDING OR AS SPECIFIED IN THE PLANS.

12. ALL SPOT ELEVATIONS SHOWN REFLECT ELEVATIONS AT GUTTER LINE, ASPHALT, OR FINISHED GROUND ELEVATION, UNLESS OTHERWISE NOTED. TOP AND BOTTOM ELEVATIONS FOR RETAINING WALLS (IF ANY) REPRESENT THE FINISHED GROUND ELEVATION AT THE WALL, NOT FOOTINGS, RAILINGS ETC.

13. ALL STORM DRAINAGE PIPE SHALL BE CLASS 3 MINIMUM REINFORCED CONCRETE PIPE WITH TYPE 1, 2 OR 3 BEDDING UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE PLANS. IF ANOTHER TYPE OF PIPE IS SPECIFIED, BEDDING AND BACKFILL SHALL BE AS PER THE MANUFACTURER'S STANDARDS AND SPECS.

14. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CONNECTION POINT, SERVICE, SIZE, POLE LOCATIONS, AND TRANSFORMER LOCATIONS WITH THE SERVICE PROVIDER PRIOR TO CONSTRUCTION ACTIVITIES.

15. THE CONTRACTOR SHALL PAY ALL CONNECTION COSTS AND FEES, INCLUDING BUT NOT LIMITED TO TAPPING FEES, METER COSTS, SETTING CHARGES, AND CONNECTION CHARGES.

16. ALL DRAINAGE STRUCTURES, INLETS BOXES, MANHOLES, ETC. SHALL BE POURED IN PLACE OR PRE CAST CONCRETE AS REQUIRED.

17. BRICK WILL ONLY BE ALLOWED TO ADJUST GRADE ON STORM MANHOLES. THE MAXIMUM ALLOWABLE HEIGHT OF BRICK SHALL BE 11 INCHES.

18. ALL DRAINAGE STRUCTURES, INLET BOXES, AND CATCH BASINS SHALL HAVE 2" WEEP HOLES FORMED, OR DRILLED, ON ALL SIDES WHERE DRAINAGE PIPES DO NOT INTERFERE WITH THEM. ALL WEEP HOLES SHALL HAVE GRAVEL WRAPPED WITH FILTER FABRIC AT THEIR INTERFACE WITH BACK FILL TO AID GROUNDWATER FLOW TO THE WEEP HOLE.

19. THE CONTRACTOR SHALL USE SPILL OUT CURB AND GUTTER AS REQUIRED TO ENSURE POSITIVE DRAINAGE AND THAT NO WATER IS HELD IN THE LOW POINTS OF GUTTERS. THE TRANSITION FROM STANDARD GUTTER TO SPILLOUT GUTTER SHALL BE SMOOTH AND AESTHETICALLY PLEASING.

20. THE CONTRACTOR SHALL INSURE THAT ALL SIDEWALKS, RAMPS, AND ACCESSIBLE PARKING AREAS ARE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES.

# Demolition Notes

1. ALL ON-SITE EXISTING UTILITIES NOT TO BE USED SHALL BE REMOVED. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANY FOR THE REMOVAL AND DISCONNECTION OF EXISTING UTILITIES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES IN ALL AREAS TO BE REMOVED OR DEMOLISHED, PRIOR TO COMMENCEMENT OF WORK. THE UTILITIES TO BE LOCATED SHALL INCLUDE, BUT NOT BE LIMITED TO WATER, GAS, SANITARY SEWER, STORM SEWER, SITE LIGHTING, IRRIGATION, SECURITY, CABLE, SITE ELECTRICAL, AND TELEPHONE.

3. ALL UTILITIES TO BE REMOVED SHALL BE CUT, REMOVED, CAPPED, ETC. ACCORDING TO ALL GOVERNING AGENCIES SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY AGENCIES PRIOR TO ANY WORK BEING DONE ON THEIR RESPECTIVE LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND INFORMING EACH UTILITY AGENCY OF THE SCOPE OF WORK AND SCHEDULE OF COMPLETION, AND SHALL COORDINATE ALL INSPECTIONS.

4. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AND SHALL LOCATE ON THE GROUND WITH PAINT OR OTHER EASILY VISIBLE MEANS ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION EFFORTS. CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY. THE UTILITIES SHOWN ARE ILLUSTRATED AS LOCATED ON THE GROUND BY LINE LOCATORS, SURVEY OF ABOVE GROUND STRUCTURES, AND/OR ACCORDING TO UTILITY MAPS OR UTILITY ADMINISTRATOR'S RECOLLECTION, AND ARE PROVIDED AS INFORMATION ONLY.

5. THE CONTRACTOR SHALL PRESERVE AND PROTECT, ACCORDING TO THE INSTRUCTIONS OF THE UTILITY INVOLVED, ANY "LIVE" UTILITIES LOCATED BY THE UTILITY COMPANY OR THE CONTRACTOR.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL CONCRETE, SIDEWALKS, WALLS, ETC. DAMAGED DURING CONSTRUCTION. ALL DISTURBED AREAS WITHIN PUBLIC RIGHTS OF WAY SHALL BE RESTORED TO THE ORIGINAL CONDITION OR AS ACCEPTED BY THE OWNER.


GMC

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**Huntsville, AL 35801**
**T 256.539.3431**
**GMCNETWORK.COM**


**Morgan County, Alabama**

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**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA LICENSED No. 38073 PROFESSIONAL ENGINEER COREY ANDREW SHOOP
02-16-2024

**GENERAL NOTES**

C-001


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PLOTTED: Feb 15, 2024 - 2:34pm

REQ'D CONCRETE 18" CURB AND GUTTER (SEE DETAIL) CONTRACTOR TO COORDINATE LOCATION AND ELEVATIONS WITH CITY ENGINEER

REQ'D CONCRETE 18" CURB AND GUTTER (SEE DETAIL) CONTRACTOR TO COORDINATE LOCATION AND ELEVATIONS WITH CITY ENGINEER

PROPOSED MASS GRADING, UTILITIES, ASPHALT PAVEMENT, AND STRIPING IN SEPARATE CONTRACT. CONTRACTOR TO COORDINATE WORK WITH OTHER CONTRACT BEFORE, AND DURING CONSTRUCTION.

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MORGAN COUNTY RECREATION CENTER
FFE=631.00
(SEE A-DRAWINGS FOR DETAILS, DOOR LOCATIONS, ETC.

N=1629099.8998
E=2215132.6606

N=1629097.9229
E=2215321.9835

N=1628986.3218
E=2215131.4746

N=1628984.3449
E=2215320.7976

N=1628957.1254
E=2215134.1699

N=1628955.3991
E=2215299.4942

TRANS-FORMER

Grease Trap

22.5° Bend

6" DI-350

3" Sch 40

627.0'
627.5'
628.0'
628.5'
629.0'
628.5'
628.0'
627.5'
627.0'
626.5'
626.0'
625.5'

R10.00' R3.00' R15.00'

## LEGEND

- CONCRETE PAVEMENT
- CONCRETE SIDEWALK (SEE TYP. SEC.)
- ADA DETECTABLE WARNING PAVERS

MAGNETIC

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.

GMC

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Morgan County, Alabama

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LACEY'S SPRING, ALABAMA 35754

GMC AHUN230008

02-16-2024

OVERALL SITE LAYOUT PLAN

C-101

DRAWING FILE T:\Projects\AL\Morgan County\AHUN230008 - Morgan County Recreation Center\D DWG\1.PLANS\02 SHEETS\03 CIVIL\C-101 Site Layout Plan.dwg
PLOTTED: Feb 16, 2024 - 2:15pm

PROPOSED MASS GRADING, UTILITIES, ASPHALT PAVEMENT, AND STRIPING IN SEPARATE CONTRACT. CONTRACTOR TO COORDINATE WORK WITH OTHER CONTRACT BEFORE, AND DURING CONSTRUCTION.

REQ'D 18" CURB AND GUTTER (SEE DETAIL)

R3.00'

R10.00'

9.00'

20.00'

58.31'

REQ'D CONCRETE 6' SIDEWALK (SEE DETAIL)

N=1629099.8998
E=2215132.6606

N=1629097.9229
E=2215321.9835

6.00' (TO BOC)

10.67'

15.31'

8.00'

MORGAN COUNTY RECREATION CENTER
FFE=631.00
(SEE A-DRAWINGS FOR DETAILS, DOOR LOCATIONS, ETC.

N=1628986.3218
E=2215131.4746

N=1628984.3449
E=2215320.7976

N=1628957.1254
E=2215134.1699

N=1628955.3991
E=2215299.4942

REQ'D ACCESSIBLE PARKING, SIGNAGE AND RAMP (SEE DETAILS)

REQ'D CONCRETE WHEEL STOP (SEE DETAIL)

31.00'

32.85'

11.00'

5.00'

REQ'D CONCRETE 18" CURB AND GUTTER (SEE DETAIL)

REQ'D CONCRETE PAVEMENT (SEE DETAIL)

REQ'D ACCESSIBLE RAMP (SEE DETAIL)

REQ'D 18" CURB AND GUTTER (SEE DETAIL)

TRANS-FORMER

628.5'

5000 gal Septic tank

Pump Chamber

Grease Trap

## LEGEND

CONCRETE PAVEMENT

CONCRETE SIDEWALK (SEE TYP. SEC.)

ADA DETECTABLE WARNING PAVERS

MAGNETIC

GRAPHIC SCALE

10 0 5 10 20 40

( IN FEET )
1 inch = 10 ft.


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**SITE LAYOUT PLAN**

C-102


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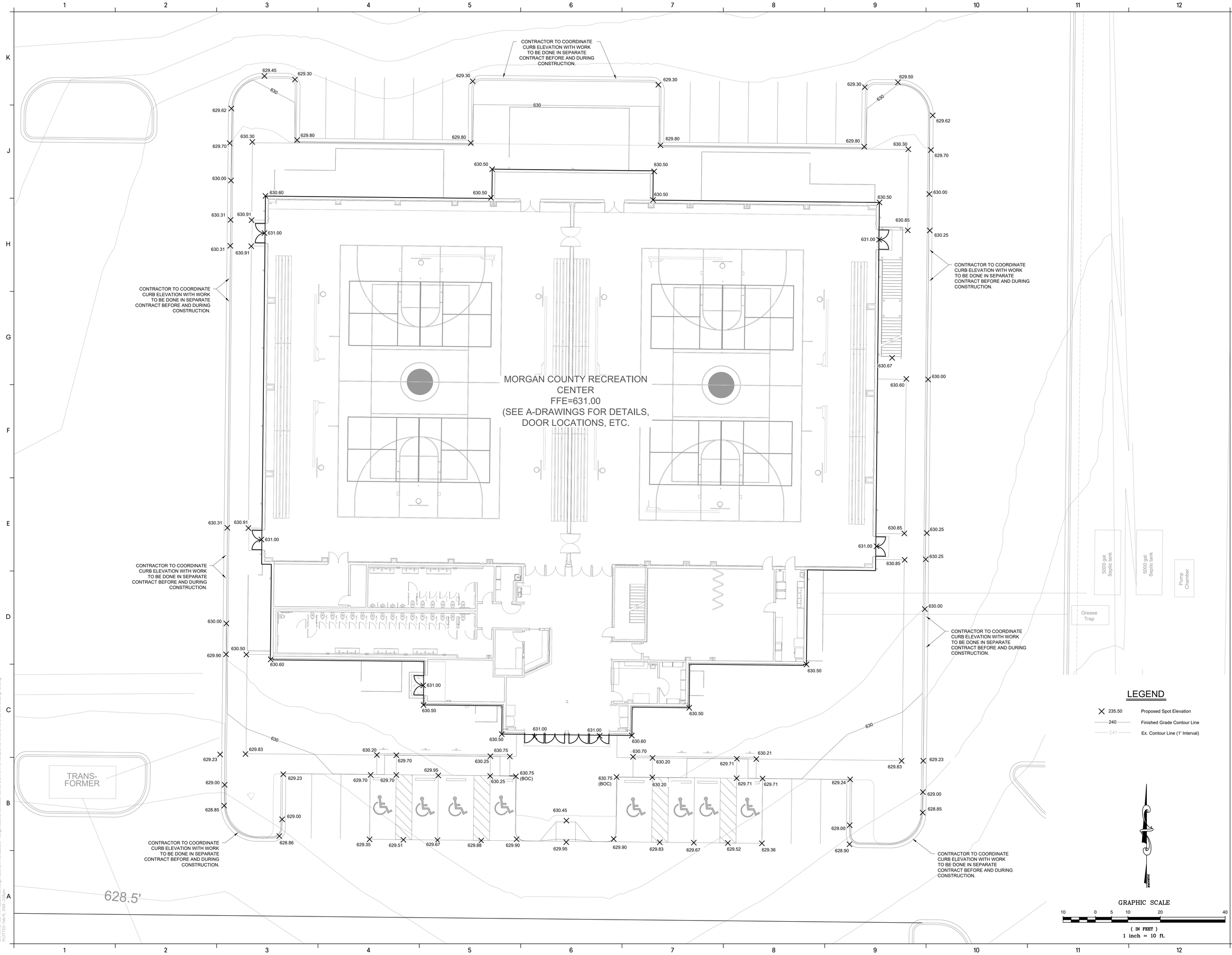
PLOTTED: Feb 16, 2024 - 3:13pm

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MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEY'S SPRING, ALABAMA 35754

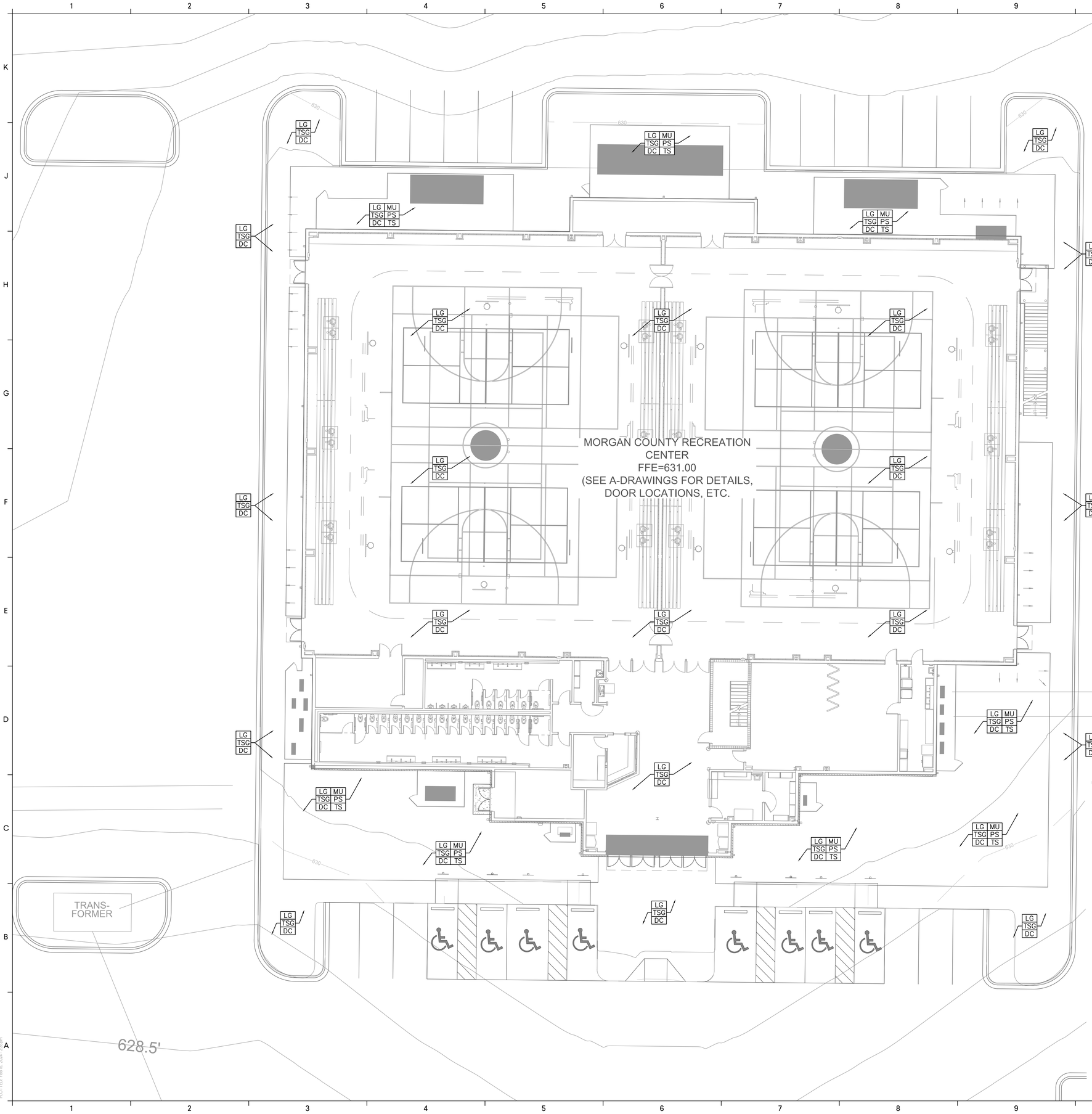
GMC AHUN230008

02-16-2024

SITE GRADING PLAN

C-201

DRAWING FILE: T:\Projects\AL\Morgan County\AHUN230008 - Morgan County Recreation Center\0 DWG\1 PLANS\02 SHEETS\03 CIVIL\C-201 Site Grading Plan.dwg
PLOTTED: Feb 16, 2024 - 2:43pm




## BEST MANAGEMENT PRACTICES NOTES

1. OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS, ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY WITH WRITTEN PERMISSION FROM THE OWNER/OFFICIAL. THE CONTRACTOR MAY PHASE THE INSTALLATION/REMOVAL OF THE BMP'S TO COORDINATE WITH THE CONSTRUCTION PROCESS.
2. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE, WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL WITHIN THIRTEEN (13) DAYS OF THE COMPLETION OF SUCH GRADING OR THE COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE BE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE BMPS SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPE OR FILL IS STABILIZED.
3. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE OF .75 INCH WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS, WHICH RECORDS SHALL BE SUBJECT TO THE INSPECTION OF THE OFFICIAL AT ANY REASONABLE TIME.
4. CONTROL MEASURES SHALL BE MAINTAINED AS AN EFFECTIVE BARRIER TO SEDIMENTATION AND EROSION IN ACCORDANCE WITH THE PROVISIONS OF THIS ORDINANCE.
5. ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (MARCH 2014 ed.) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK MAY BE PURCHASED FROM THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.

NOTES :

1. ALL LANDSCAPING AREAS SHALL BE AS PER THE LANDSCAPE DRAWING.
2. ALL REGRADED AREAS NOT TO BE PAVED, SHALL BE SEEDED AND MULCHED ACCORDING TO A.L.D.O.T. PERMANENT SEEDING SCHEDULES.
3. ALL BEST MANAGEMENT PRACTICES SHOWN SHALL BE CONSIDERED A MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE BMP'S ACCORDING TO ALL ADEM/EPA STANDARDS & SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, REPAIRING AND SUPPLEMENTING THE BMP'S SHOWN IN ORDER TO COMPLY W/THE NPDES PERMIT FOR THIS SITE.
5. THE CONTRACTOR SHALL MAINTAIN ALL BMP'S UNTIL AN ACCEPTABLE STAND OF GRASS HAS BEEN ACHIEVED AND A NOTICE OF TERMINATION HAS BEEN FILED W/ADEM.

GRAPHIC SCALE

10 0 5 10 20 40

( IN FEET )
1 inch = 10 ft.

## EROSION AND SEDIMENTATION CONTROL LEGEND

### Site Preparation

- CEP Construction Exit Pad
- LG Land Grading
- TSG Top soiling

### Surface Stabilization

- CHS Chemical Stabilization
- DSF Dune Sand Fence
- DVP Dune Vegetation Planting
- DW Dune Walkover
- DC Dust Control
- ECB Erosion Control Blanket
- GK Grounds keeping
- MU Mulching
- PS Permanent Seeding
- PV Preservation of Vegetation
- RW Retaining Wall
- SVG Shrub, Vine and Ground cover Plantings
- SOD Sodding
- TS Temporary Seeding
- TP Tree Planting on Disturbed Areas
- CFM Cotton Fiber Matrix Hydroseeding

### Stream Protection

- BZ Buffer Zone
- CS Channel Stabilization
- SP Stream bank Protection
- TSC Temporary Stream Crossing
- BG Baffle Grid

### Runoff Conveyance

- CD Check Dam
- DV Diversion Channel
- DRS Drop Structure
- GS Grass Swale
- LS Lined Swale
- OP Outlet Protection
- RS Riprap–lined Swale
- SD Subsurface Drain
- TDS Temporary Slope Drains

### Sediment Control

- BIP Block and Gravel Inlet
- BFB Brush/Fabric Barrier
- EIP Excavated Drop Inlet Protection
- FIP Fabric Drop Inlet Protection
- FS Filter Sack
- DS Dandy Sack
- FB Floating Turbidity Barrier
- RD Rock Filter Dam
- SB Sediment Barrier
- SBN Sediment Basin
- SST Straw Bale Sediment Trap
- TST Temporary Sediment Trap
- SL Sediment Log (20") / Wattle
- HIF HDPE Inlet Filter
- PFL Anionic Polyacrylamide Storm Water Floculant Log
- PFP Anionic Polyacrylamide Storm Water Floculant Powder

### Storm water Management

- PP Porous Pavement
- SDB Storm Water Detention Basin
- TRE Temporary Inlet Riser Extension

GMC

Goodwyn Mills Cawood, LLC
**117 Jefferson Street North**
**Huntsville, AL 35801**
**T 256.539.3431**
**GMCNETWORK.COM**

**Morgan County, Alabama**

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2.16.24 |

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CHECKED BY:

**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

ALABAMA LICENSED No. 38012 PROFESSIONAL ENGINEER CORY A. PARTRIDGE

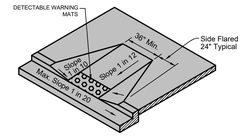
02-16-2024

GMC AHUN230008

**EROSION AND SEDIMENT CONTROL PLAN**

# C-601

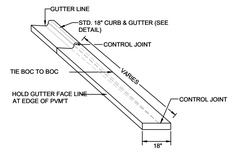
DRAWING FILE: T:\Projects\AL\Morgan County\AHUN230008 - Morgan County Recreation Center\D DWG\1 PLANS\02 SHEETS\03 CIVIL\C-601 BMP.dwg
PLOTTED: Feb 15, 2024 - 3:24pm




SIDEWALKS SHALL BE CONSTRUCTED TO COMPLY WITH ADA ACCESSIBILTY GUIDELINES. SIDEWALK PASSAGE MUST BE MINIMUM 36" WIDE FOR NO MORE THAN 24" IN DISTANCE.

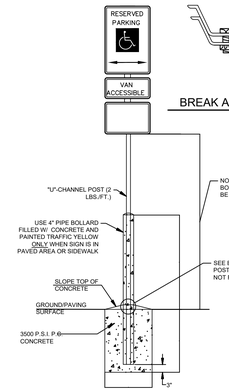
## CURB RAMP DETAIL

N.T.S.




## 18" CURB TRANSITION DETAIL

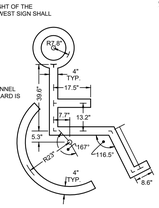
N.T.S.



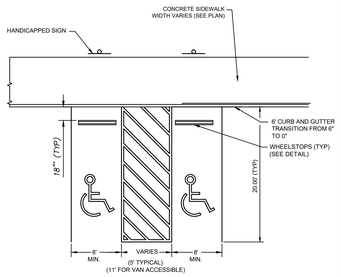
5/16" Ø STANDARD GALVANIZED OR ZINC PLATED SQUARE OR HEX. HEAD MACHINE BOLT WITH NUT.

## BREAK AWAY CHANNEL POST

ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.




## PAINTED SYMBOL DETAIL

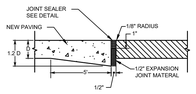



NOTE:
SEE SPECS FOR PAINT COLOR AND MATERIAL REQUIREMENTS.

## PLAN VIEW W/ FLUSH ASPHALT/SIDEWALK

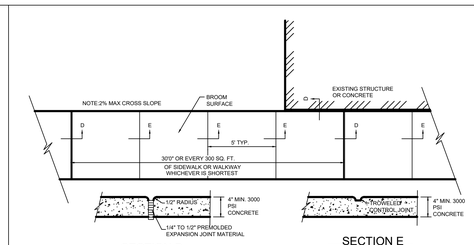
## SITE SIGN BASE & ADA SIGNAGE DETAILS

N.T.S.




## CONCRETE/ASPHALT INTERFACE DETAIL

N.T.S.




## SECTION D

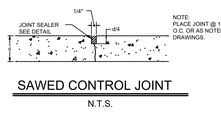
EXPANSION JOINT

## SECTION E

CONTRACTION CONTROL JOINT

## CONC. WALK DETAIL

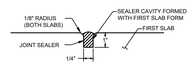
N.T.S.



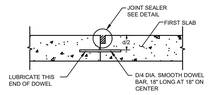

NOTE:
PLACE JOINT @ 15' O.C. OR AS NOTED ON DRAWINGS.

## SAWED CONTROL JOINT

N.T.S.

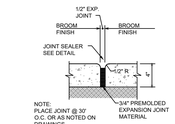



## JOINT SEALER DETAIL




## LONGITUDINAL CONSTRUCTION JOINT (AND AT END OF A DAY'S WORK)

N.T.S.




## EXPANSION JOINT DETAIL

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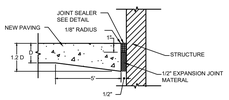


## EDGE OF STRUCTURE DETAIL

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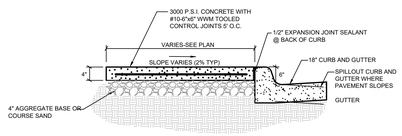
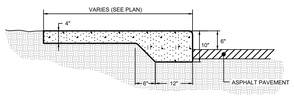



## SIDEWALK DETAIL

N.T.S.




## TURN DOWN SIDEWALK DETAIL

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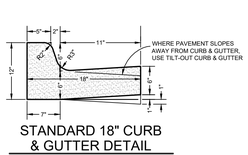
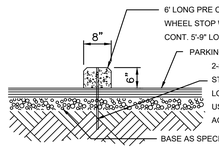



## STANDARD 18" CURB & GUTTER DETAIL

N.T.S.




## WHEEL STOP DETAIL

N.T.S.


GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
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Morgan County, Alabama

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02-16-2024

GMC AHUN230008

**CONSTRUCTION DETAILS**

C-903


DRAWING FILE: T:\Projects-AL\Morgan County\AHUN230008 - Morgan County Recreation Center\CD\DWG\1-PLANS\02-SHEETS\03-CIVIL\C-903-Details.dwg
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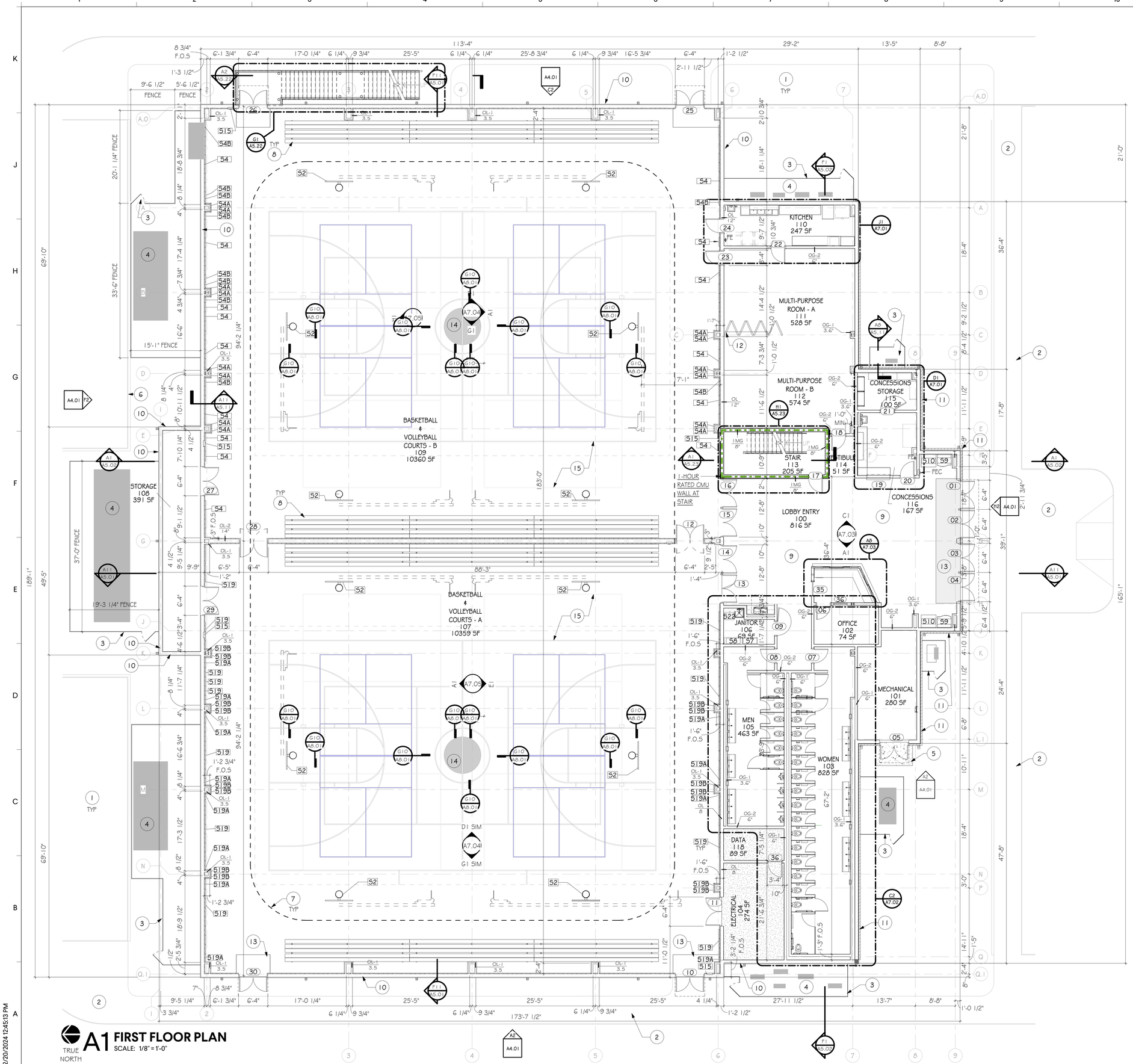


# A1 FIRST FLOOR PLAN

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

TRUE NORTH

2/20/2024 12:45:13 PM

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| S2 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| S4 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S4A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S4B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S5 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| S6 | MOP SINK | CFCI |
| S7 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| S8 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| S9 | ICE MACHINE | OFCI |
| S10 | VENDING MACHINES | OFCI |
| S11 | MICROWAVE | OFOI |
| S12 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| S13 | COOLER | OFCI |
| S14 | FIRE EXTINGUISHER | CFCI |
| S15 | FIRE EXTINGUISHER CABINET | |
| S16 | STAINLESS STEEL SHELF | CFCI |
| S17 | WARMING CART | OFCI |
| S18 | COMMERCIAL GRADE FREEZER | OFCI |
| S19 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S19A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S19B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S20 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| S21 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| S22 | MOP HOLDER & SHELF - 36"W | CFCI |

## KEYNOTES - FLOOR PLAN:

1. GRADING TO SLOPE AWAY FROM BUILDING AND PROVIDE POSITIVE DRAINAGE. SEE CIVIL.
2. CONCRETE SIDEWALK. SLOPE AWAY FROM BUILDING, SEE CIVIL.
3. VINYL (HVAC) FENCING w/ LOCKABLE GATE, TYPICAL
4. HVAC UNIT. SEE MECHANICAL
5. CONCRETE PAD, SEE CIVIL
6. CURB & GUTTER, SEE CIVIL
7. RUNNING TRACK ABOVE AT MEZZANINE
8. BLEACHER SYSTEM, SEE SPECIFICATIONS
9. WALLS IN LOBBY TO HAVE IMPACT RESITANT GYPSUM
10. METAL PANEL WALL ASSEMBLY:
    - METAL PANEL (EXTERIOR SIDE)
    - AIR SPACE
    - 8 1/2" METAL STUD FRAMING w/ BATT INSULATION
    - METAL PANEL (INTERIOR SIDE)
11. BRICK VENEER WALL ASSEMBLY:
    - BRICK VENEER (EXTERIOR SIDE)
    - AIR SPACE
    - WEATHER BARRIER OVER EXTERIOR GRADE SHEATHING
    - 8 1/2" METAL STUD FRAMING w/ BATT INSULATION
    - GYPSUM WALL BOARD (INTERIOR SIDE)
12. OPERABLE PARTITION
13. 1" RECESS FOR WALK OFF MAT
14. COUNTY LOGO, PAINTED ON FLOOR. SEE INTERIOR DETAILS / SHEETS
15. SEE STRIPING PLAN FOR FLOOR DETAILS

## PARTITION LEGEND

- TYPICAL PARTITION
- TYPICAL CMU PARTITION
- 1-HOUR FIRE RATED PARTITION

## GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. REFER TO SHEET G1.01 FOR GENERAL INFORMATION.
3. REFER TO SHEET G1.11 FOR ABBREVIATIONS, MATERIAL AND SYMBOL LEGENDS AND TYPICAL MOUNTING HEIGHTS.
4. REFER TO SHEET G1.21 FOR INTERIOR PARTITION TYPES.
5. REFER TO SHEET G1.31 FOR FIRESTOPPING-THRU-PENETRATION SYSTEMS.
6. UNLESS NOTED OTHERWISE LOCATE HINGE SIDE OF DOOR JAMB 6" FROM ADJACENT WALL FOR STUD FRAMING, 8" FOR MASONRY.
7. DIMENSIONS SHOWN ARE TO FACE OF STUD OR BLOCK UNLESS NOTED OTHERWISE. COLUMN DIMENSIONS ARE CENTERLINE DIMENSIONS.
8. INSTALL APPROPRIATE WOOD FRAMING ADEQUATE TO SUPPORT WALL OR CEILING MOUNTED EQUIPMENT, ACCESSORIES, CASEWORK OR OTHER MOUNTED ITEMS IN CONSTRUCTION. INSTALL PRESSURE TREATED WOOD FRAMING AT EXTERIOR WALLS OR WHERE FRAMING IS IN CONTACT WITH CONCRETE AND/OR MASONRY. INSTALL FIRE RETARDANT TREATED BLOCKING IN ALL RATED CONSTRUCTION.
9. INSTALL BULLNOSE MASONRY UNITS AT ALL OUTSIDE CORNERS EXPOSED TO THE INTERIOR OF THE PROJECT. START BULLNOSE MASONRY UNITS 1 COURSE ABOVE FINISHED FLOOR AND STOP 1 COURSE BELOW CEILING.
10. FINISHED FLOOR GRADE TO BE FLUSH THROUGHOUT EVENT CENTER.

GMC

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117 Jefferson Street North
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GMCNETWORK.COM

Morgan County, Alabama

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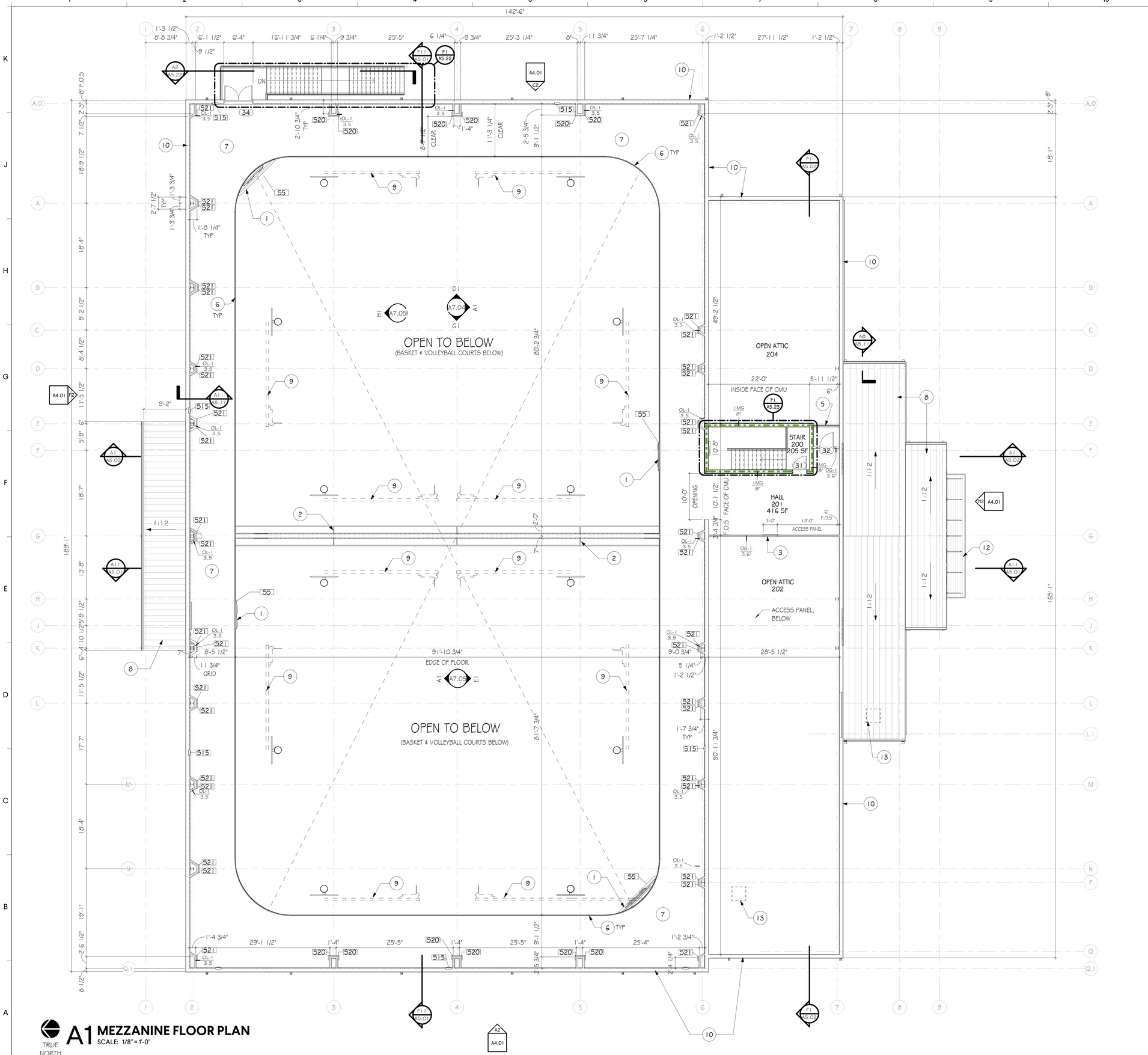
MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

FIRST FLOOR PLAN

A1.01




# A1 MEZZANINE FLOOR PLAN

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

2/20/2024 12:45:16 PM

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| S2 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| S4 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S4A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S4B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S5 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| S6 | MOP SINK | CFCI |
| S7 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| S8 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| S9 | ICE MACHINE | OFCI |
| S10 | VENDING MACHINES | OFCI |
| S11 | MICROWAVE | OFOI |
| S12 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| S13 | COOLER | OFCI |
| S14 | FIRE EXTINGUISHER | CFCI |
| S15 | FIRE EXTINGUISHER CABINET | |
| S16 | STAINLESS STEEL SHELF | CFCI |
| S17 | WARMING CART | OFCI |
| S18 | COMMERCIAL GRADE FREEZER | OFCI |
| S19 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S19A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S19B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S20 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| S21 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| S22 | MOP HOLDER & SHELF - 36"W | CFCI |

## KEYNOTES - MEZZANINE:

1. SCOREBOARD. PROVIDE ADDITIONAL HANGERS TO SUPPORT SCOREBOARD, SEE STRUCTURAL. VERIFY LOCATION OF SCOREBOARD w/ OWNER BEFORE PROCEEDING w/ NEW WORK.
2. BANNER BAR WELDED TO RUNNING TRACK. SEE STRUCTURAL
3. 30" x 48" WALL ACCESS PANEL
4. EXTERIOR STAIR. SEE ELEVATIONS
5. REMOVABLE 42" GUARDRAIL
6. 42" GUARDRAIL, TYPICAL AROUND MEZZANINE TRACK
7. RUNNING TRACK
8. METAL ROOF BELOW. SEE ROOF PLAN
9. MOTORIZED BASKETBALL GOAL. SEE SPECIFICATIONS
10. METAL PANEL WALL ASSEMBLY:
    - METAL PANEL (EXTERIOR SIDE)
    - AIR SPACE
    - 8 1/2" METAL STUD FRAMING w/ BATT INSULATION
    - METAL PANEL (INTERIOR SIDE)
11. BRICK VENEER WALL ASSEMBLY:
    - BRICK VENEER (EXTERIOR SIDE)
    - AIR SPACE
    - WEATHER BARRIER OVER EXTERIOR GRADE SHEATHING
    - 8 1/2" METAL STUD FRAMING w/ BATT INSULATION
    - GYPSUM WALL BOARD (INTERIOR SIDE)
12. PREFINISHED METAL AWNING (BELOW). SEE ELEVATIONS
13. ACCESS PANEL BELOW

## PARTITION LEGEND

- TYPICAL PARTITION
- TYPICAL CMU PARTITION
- 1-HOUR FIRE RATED PARTITION

## GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. REFER TO SHEET G1.01 FOR GENERAL INFORMATION.
3. REFER TO SHEET G1.11 FOR ABBREVIATIONS, MATERIAL AND SYMBOL LEGENDS AND TYPICAL MOUNTING HEIGHTS.
4. REFER TO SHEET G1.21 FOR INTERIOR PARTITION TYPES.
5. REFER TO SHEET G1.31 FOR FIRESTOPPING-THRU-PENETRATION SYSTEMS.
6. UNLESS NOTED OTHERWISE LOCATE HINGE SIDE OF DOOR JAMB 6" FROM ADJACENT WALL FOR STUD FRAMING, 8" FOR MASONRY.
7. DIMENSIONS SHOWN ARE TO FACE OF STUD OR BLOCK UNLESS NOTED OTHERWISE. COLUMN DIMENSIONS ARE CENTERLINE DIMENSIONS.
8. INSTALL APPROPRIATE WOOD FRAMING ADEQUATE TO SUPPORT WALL OR CEILING MOUNTED EQUIPMENT, ACCESSORIES, CASEWORK OR OTHER MOUNTED ITEMS IN CONSTRUCTION. INSTALL PRESSURE TREATED WOOD FRAMING AT EXTERIOR WALLS OR WHERE FRAMING IS IN CONTACT WITH CONCRETE AND/OR MASONRY. INSTALL FIRE RETARDANT TREATED BLOCKING IN ALL RATED CONSTRUCTION.
9. INSTALL BULLNOSE MASONRY UNITS AT ALL OUTSIDE CORNERS EXPOSED TO THE INTERIOR OF THE PROJECT. START BULLNOSE MASONRY UNITS 1 COURSE ABOVE FINISHED FLOOR AND STOP 1 COURSE BELOW CEILING.
10. FINISHED FLOOR GRADE TO BE FLUSH THROUGHOUT EVENT CENTER.

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Morgan County, Alabama

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STATE of ALABAMA
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Owens Cross Roads, Alabama
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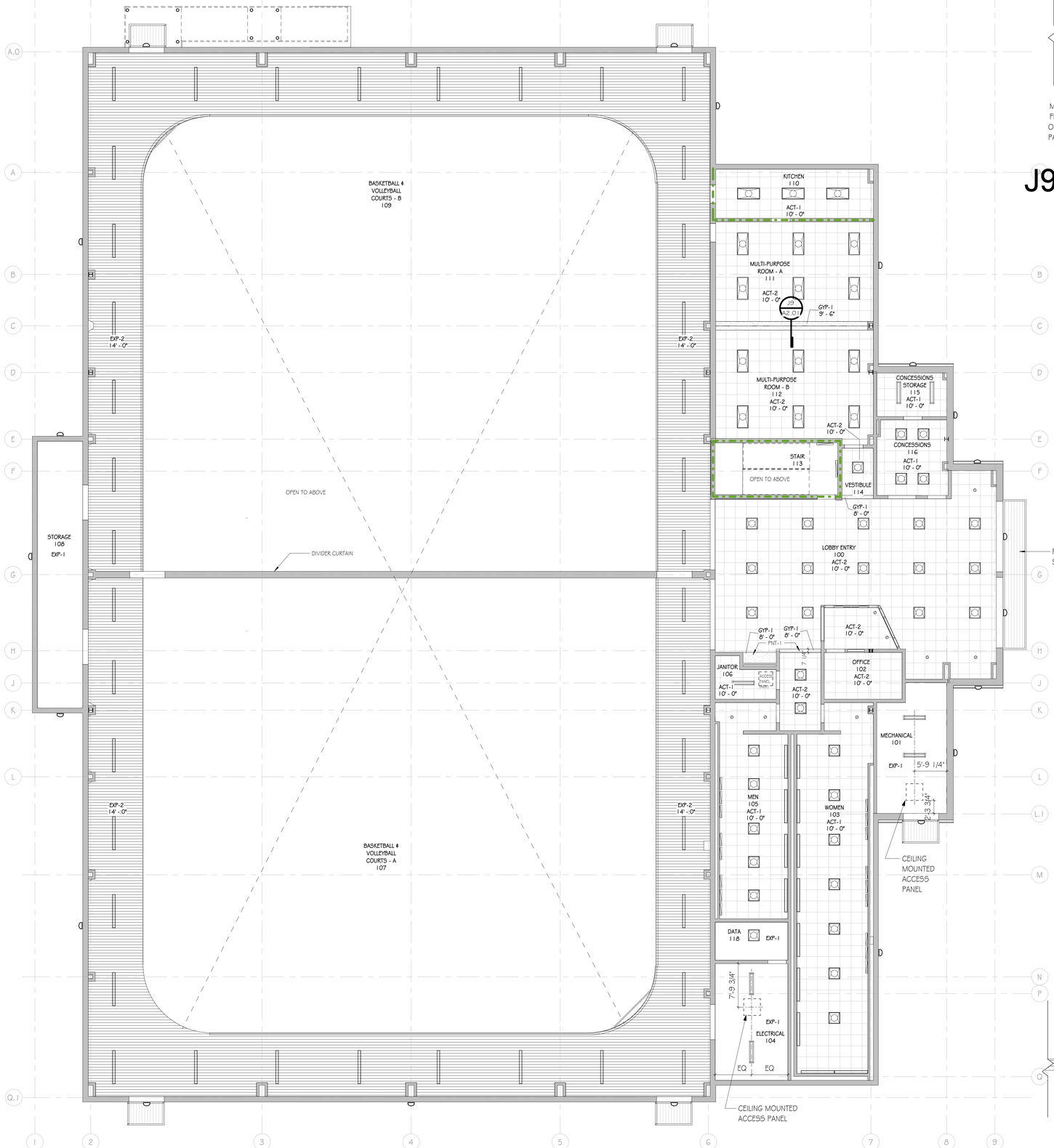
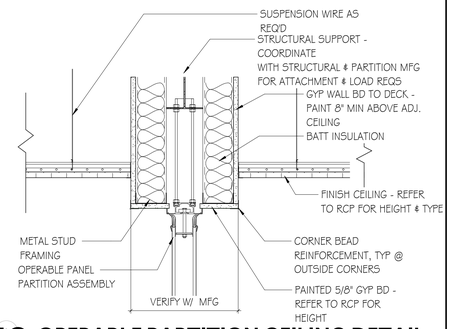
MEZZANINE FLOOR PLAN

A1.02

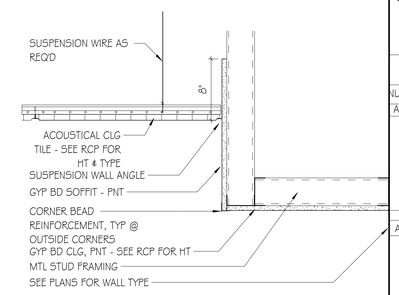



TRUE NORTH

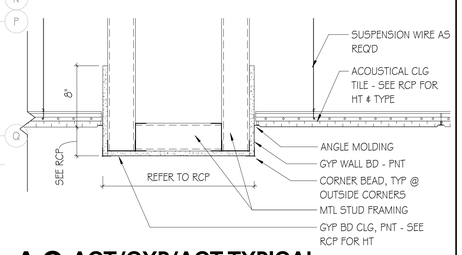
# A1 RCP - FIRST FLOOR
SCALE: 1/8" = 1'-0"




# J9 OPERABLE PARTITION CEILING DETAIL
SCALE: 11/2" = 1'-0"




# G9 ACT/GYP SOFFIT TYPICAL
SCALE: 11/2" = 1'-0"




# A9 ACT/GYP/ACT TYPICAL
SCALE: 11/2" = 1'-0"

## REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:
- 2X2' LAY-IN ACOUSTICAL CEILING & GRID SYSTEM
- RECESSED LIGHT POCKET
- GYPSUM BOARD - INTERIOR EIFS SOFFIT - EXTERIOR
- EXPOSED STRUCTURE
- 2X2 LAY-IN METAL CEILING & GRID SYSTEM
- 2X2 LAY-IN WOOD CEILING & GRID SYSTEM

MECHANICAL:
- SUPPLY DIFFUSER
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN

LIGHTING:
- FIRE ALARM
- EXIT SIGN

LIGHTING:
- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- LINEAR BOX FIXTURE
- SURFACE MOUNTED STRIP FLUORESCENT
- WALL MOUNTED STRIP FLUORESCENT
- SUSPENDED LINEAR FLUORESCENT FIXTURE
- RECESSED LINEAR LED FIXTURE
- PENDANT MOUNTED INDIRECT LIGHT FIXTURE
- 1X4 RECESSED FLUORESCENT WITH SLOTTED DIFFUSER
- RECESSED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- LARGE PENDANT FIXTURE
- SMALL PENDANTS ON MONORAIL

## CEILING FINISH KEY

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| ACT-1 | ACOUSTICAL CEILING TILE SYSTEM | PRODUCT EQUAL TO:<br>MANUFACTURER: ARMSTRONG<br>STYLE: GEORGIAN HIGH WASHABILITY - SQUARE LAY-IN #794<br>COLOR: WHITE<br>SIZE: 24" X 24" X 5/8"<br>SUSPENSION SYSTEM: PRELUDE 15/16" EXPOSED TEE<br>COLOR: WHITE<br>LOCATION: KITCHEN, CONCESSIONS, RESTROOMS, JANITOR |
| ACT-2 | ACOUSTICAL CEILING TILE SYSTEM | PRODUCT EQUAL TO:<br>MANUFACTURER: ARMSTRONG<br>STYLE: FINE FISSURED SQUARE LAY-IN #1831<br>COLOR: WHITE<br>SIZE: 24" X 24" X 5/8"<br>SUSPENSION SYSTEM: PRELUDE ML 15/16" EXPOSED TEE, COLOR: WHITE |
| GYP-1 | GYP BOARD CEILING SYSTEM | PRODUCT EQUAL TO<br>PAINTED GYP BOARD CEILING<br>COLOR: PNT-2 |
| GYP-2 | GYP BOARD CEILING SYSTEM | PRODUCT EQUAL TO<br>TYPE X GYP BOARD CEILING - 1 HOUR FIRE RATED<br>COLOR: PNT-2 U.N.O. ON RCP |
| MGB-1 | MOISTURE RESISTANT GYP BOARD CEILING | PRODUCT EQUAL TO<br>PAINTED GYP BOARD CEILING - MOISTURE RESISTANT<br>COLOR: PNT-2- U.N.O. ON RCP |
| EXP-1 | EXPOSED TO STRUCTURE | EQUAL TO:<br>EXPOSED TO STRUCTURE - WITH NO FINISH |
| EXP-2 | EXPOSED TO STRUCTURE | EQUAL TO:<br>EXPOSED TO STRUCTURE - WITH FINISH<br>PAINT ALL EXPOSED ELEMENTS, INCLUDING DUCTWORK, CONDUIT, STRUCTURE, PIPING, CEILING: PNT-2 |

## GENERAL NOTES

1. INTERIOR CEILING HEIGHTS AS INDICATED ON THE REFLECTED CEILING PLANS.

2. REFER TO CONSTRUCTION FLOOR PLANS FOR REQUIRED COMPOSITION OF WALL CONSTRUCTION.

3. LOCATION OF LIGHTS, DIFFUSERS, AND RETURN AIR GRILLES TO BE COORDINATED BETWEEN REFLECTED CEILING PLANS, LIGHTING PLANS, AND HVAC PLANS. FINAL LOCATION TO BE APPROVED BY ARCHITECT.

4. COORDINATE WITH OWNER'S A/V CONSULTANT FOR PROJECTION SCREEN AND PROJECTOR LOCATION.

5. SEE SPECIFICATIONS FOR ADDITIONAL CEILING FINISH INFORMATION AND REQUIREMENTS. NOTIFY ARCHITECT WITH ANY DISCREPANCIES BETWEEN SPECIFICATION AND DRAWINGS.

6. WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR.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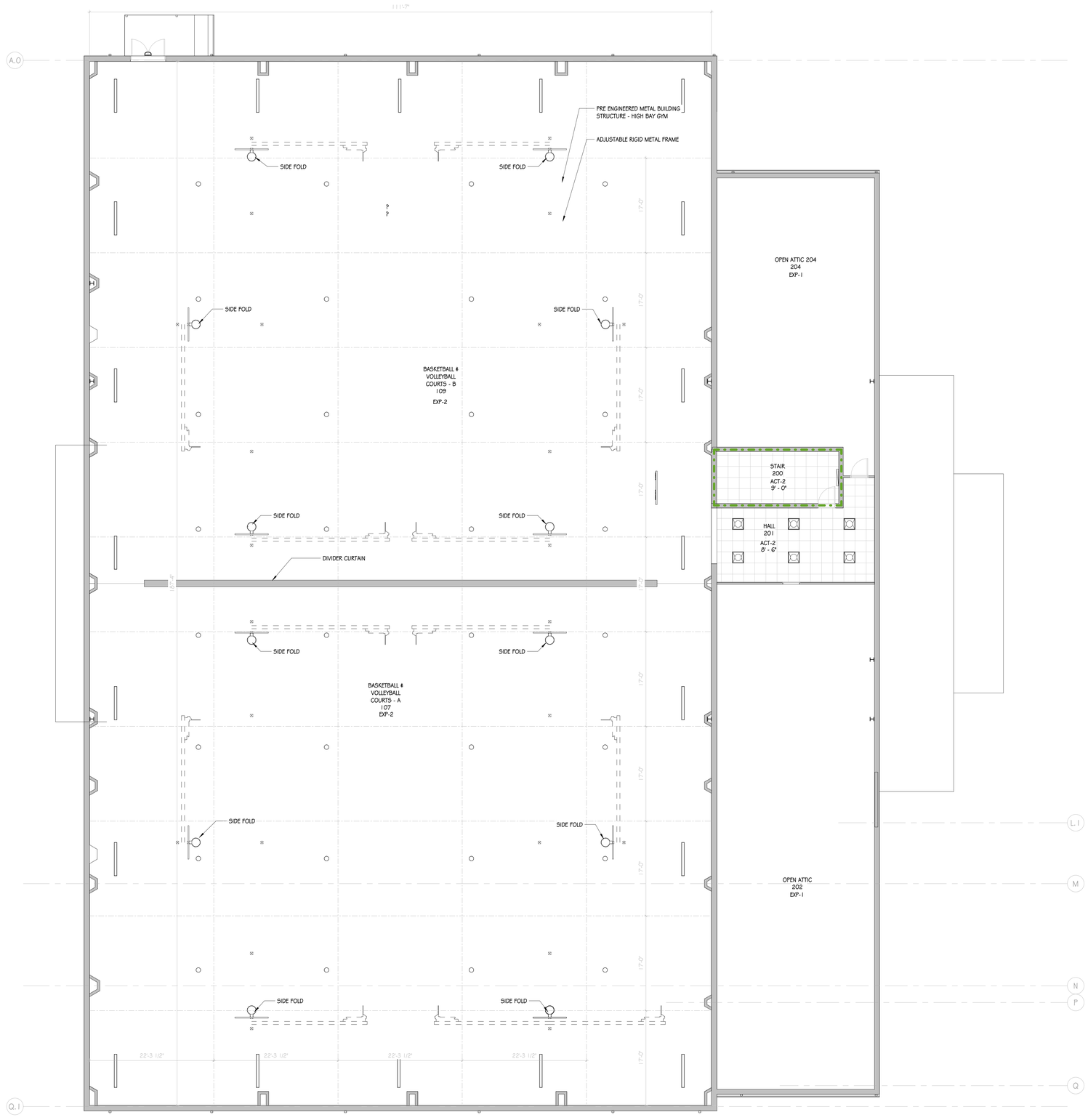
REFLECTED CEILING PLAN - FIRST FLOOR

A2.01

2/20/2024 12:45:19 PM




TRUE NORTH

# A1 MEZZANINE REFLECTED CEILING PLAN

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

## REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:

- 2'X2' LAY-IN ACOUSTICAL CEILING & GRID SYSTEM
- RECESSED LIGHT POCKET
- GYPSUM BOARD - INTERIOR EIFS SOFFIT - EXTERIOR
- EXPOSED STRUCTURE
- 2X2 LAY-IN METAL CEILING & GRID SYSTEM
- 2X2 LAY-IN WOOD CEILING & GRID SYSTEM

MECHANICAL:

- SUPPLY DIFFUSER
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN

LIGHTING:

- FIRE ALARM
- EXIT SIGN

LIGHTING:

- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
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## CEILING FINISH KEY

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| ACT-2 | ACOUSTICAL CEILING TILE SYSTEM | PRODUCT EQUAL TO:<br>MANUFACTURER: ARMSTRONG<br>STYLE: FINE FISSURED SQUARE LAY-IN #1831<br>COLOR: WHITE<br>SIZE: 24" X 24" X 5/8"<br>SUSPENSION SYSTEM: PRELUDE ML 15/16" EXPOSED TEE. COLOR: WHITE |
| GYP-1 | GYP BOARD CEILING SYSTEM | PRODUCT EQUAL TO<br>PAINTED GYP BOARD CEILING<br>COLOR: PNT-2 |
| GYP-2 | GYP BOARD CEILING SYSTEM | PRODUCT EQUAL TO<br>TYPE X GYP BOARD CEILING - 1 HOUR FIRE RATED<br>COLOR: PNT-2 U.N.O. ON RCP |
| MGB-1 | MOISTURE RESISTANT GYP BOARD CEILING | PRODUCT EQUAL TO<br>PAINTED GYP BOARD CEILING - MOISTURE RESISTANT<br>COLOR: PNT-2- U.N.O. ON RCP |
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| EXP-2 | EXPOSED TO STRUCTURE | EQUAL TO:<br>EXPOSED TO STRUCTURE - WITH FINISH<br>PAINT ALL EXPOSED ELEMENTS, INCLUDING DUCTWORK, CONDUIT, STRUCTURE, PIPING, CEILING: PNT-2 |

## GENERAL NOTES

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6. WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR.


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**MEZZANINE REFLECTED CEILING PLAN**

A2.02

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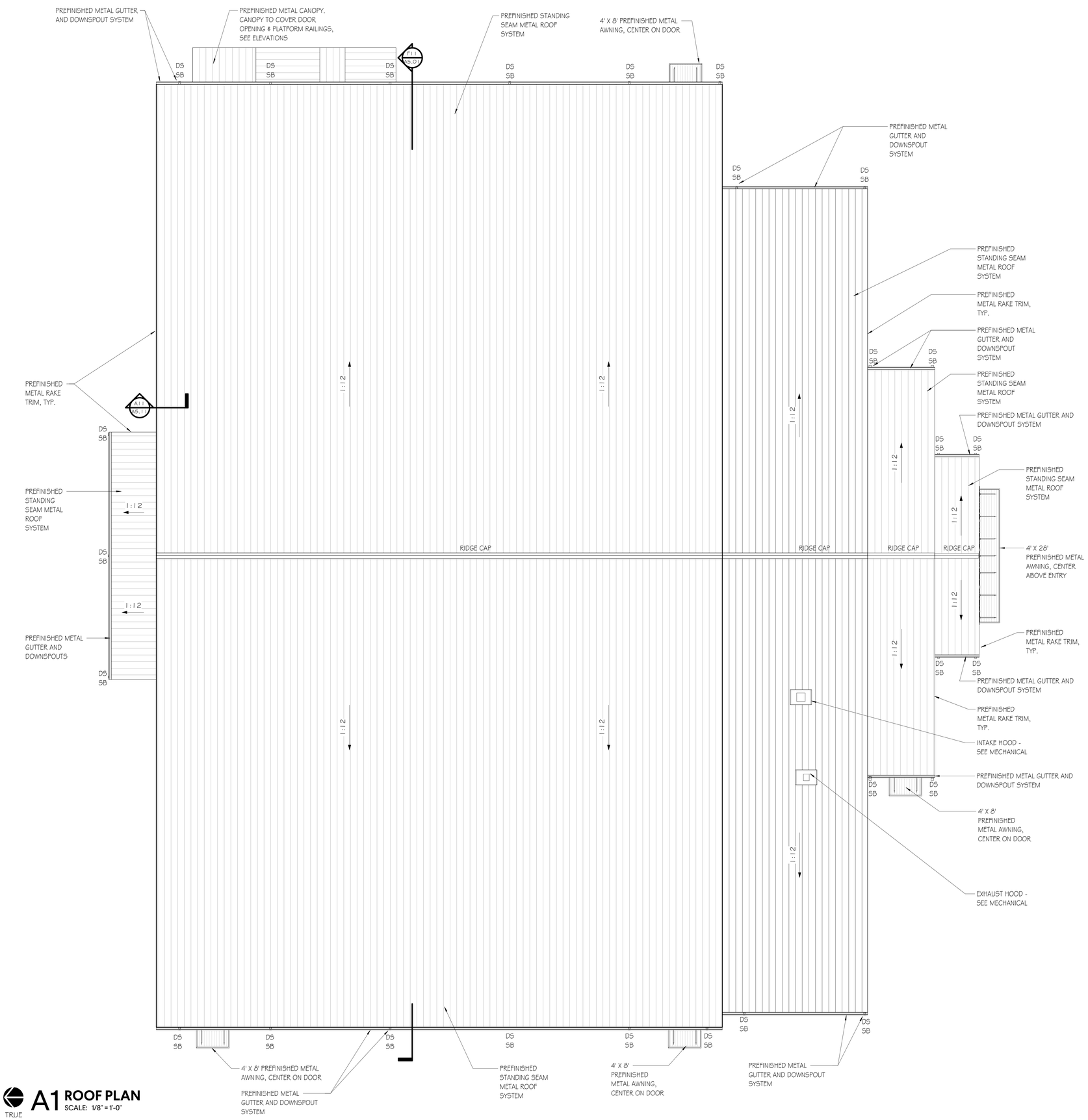


TRUE NORTH

# A1 ROOF PLAN

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

2/20/2024 12:45:21 PM

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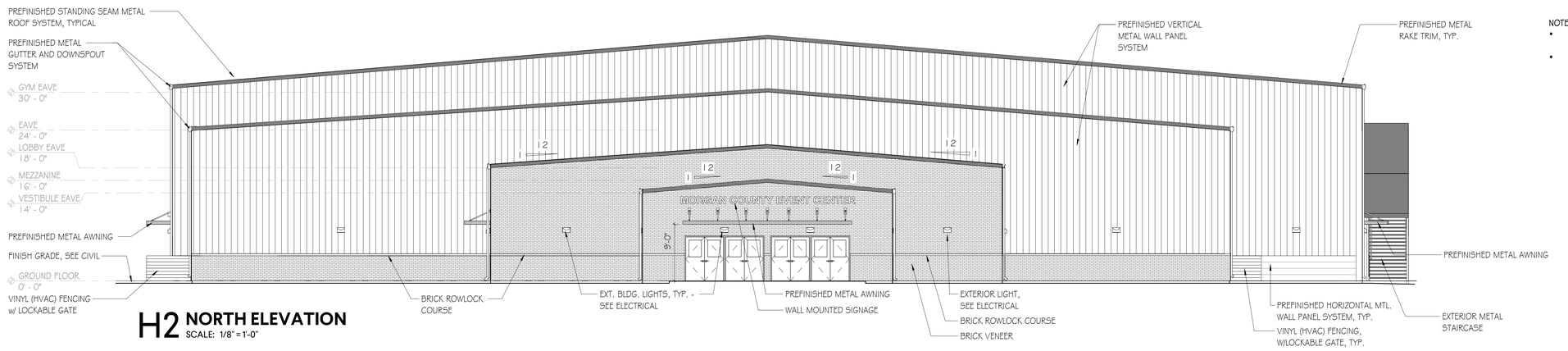
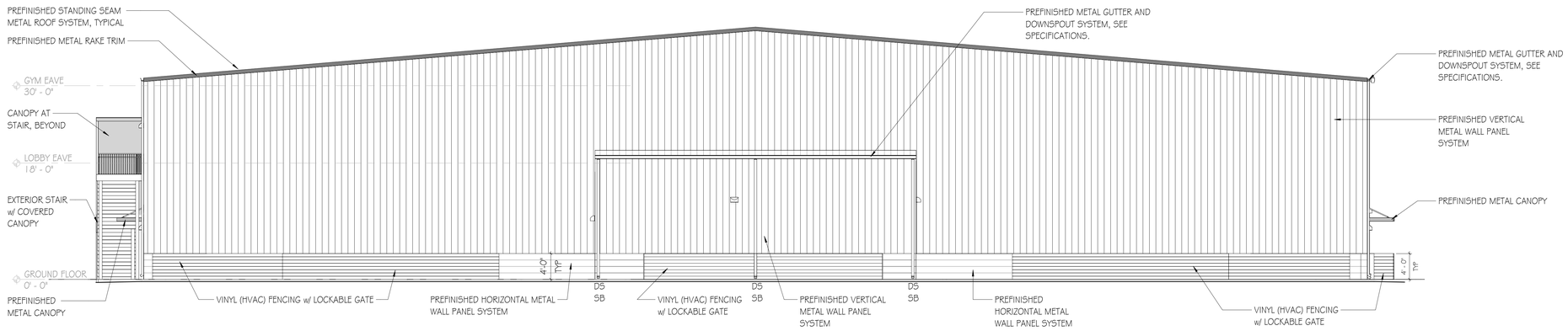
**ROOF PLAN**

A3.01

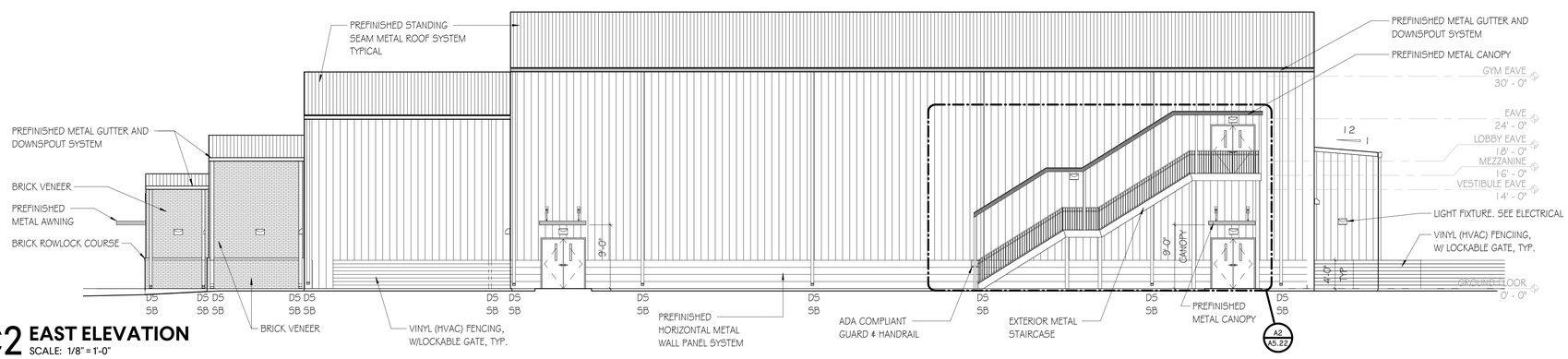



## H2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

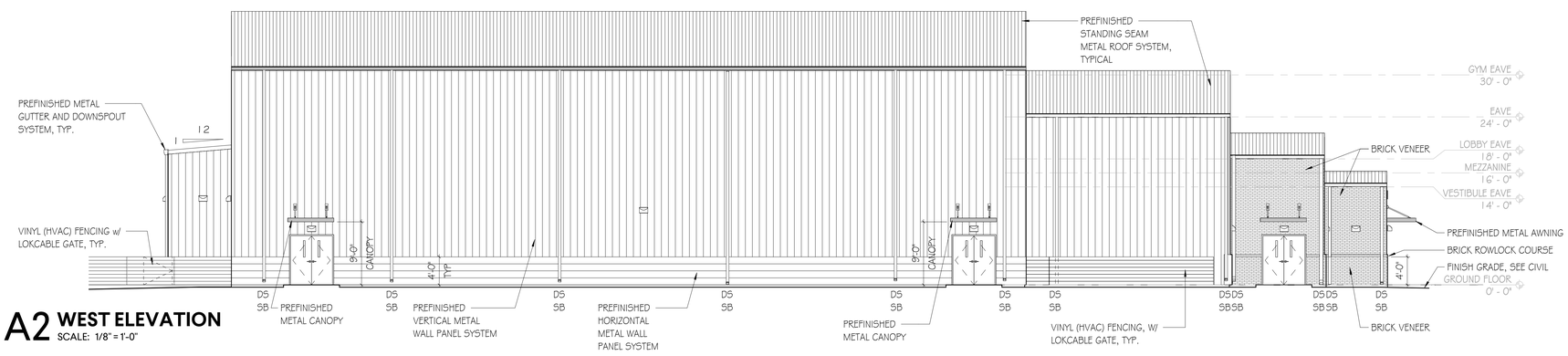
NOTE:
- DOWNSPOUTS TO RUN UNDER SIDEWALK AND DAYLIGHT THROUGH CURB, TYPICAL.
- ALL EXTERIOR HVAC EQUIPMENT AT GROUND LEVEL TO BE SCREENED W/ VINYL FENCING W/ LOCKABLE GATE, EACH, TYPICAL.




## F2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"




## C2 EAST ELEVATION
SCALE: 1/8" = 1'-0"




## A2 WEST ELEVATION
SCALE: 1/8" = 1'-0"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**EXTERIOR ELEVATIONS**

# A4.01

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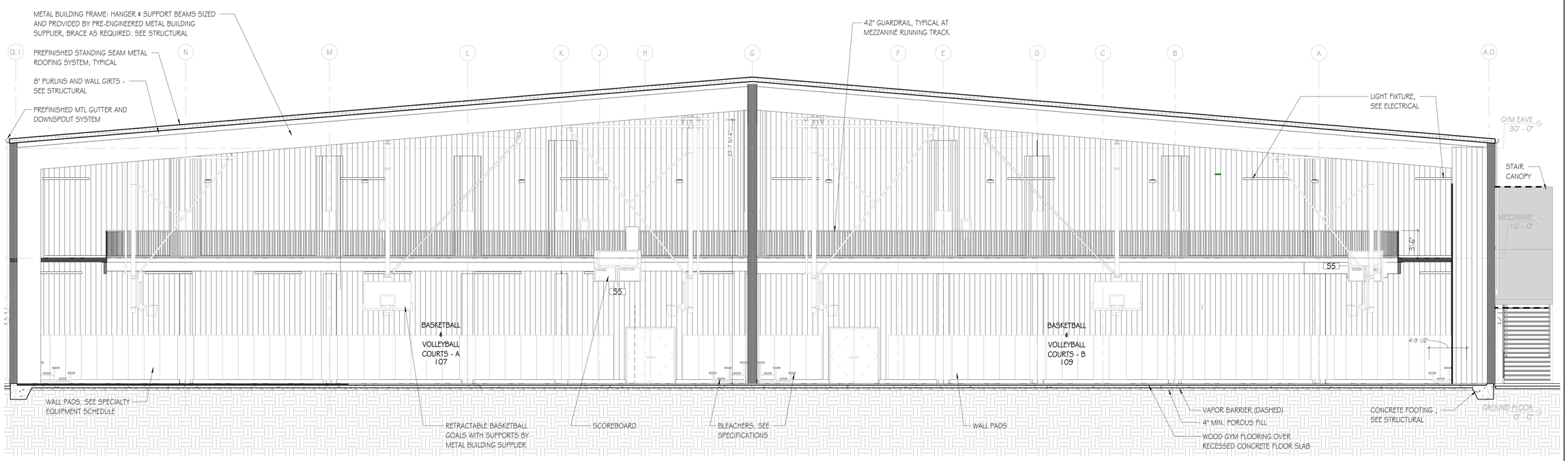
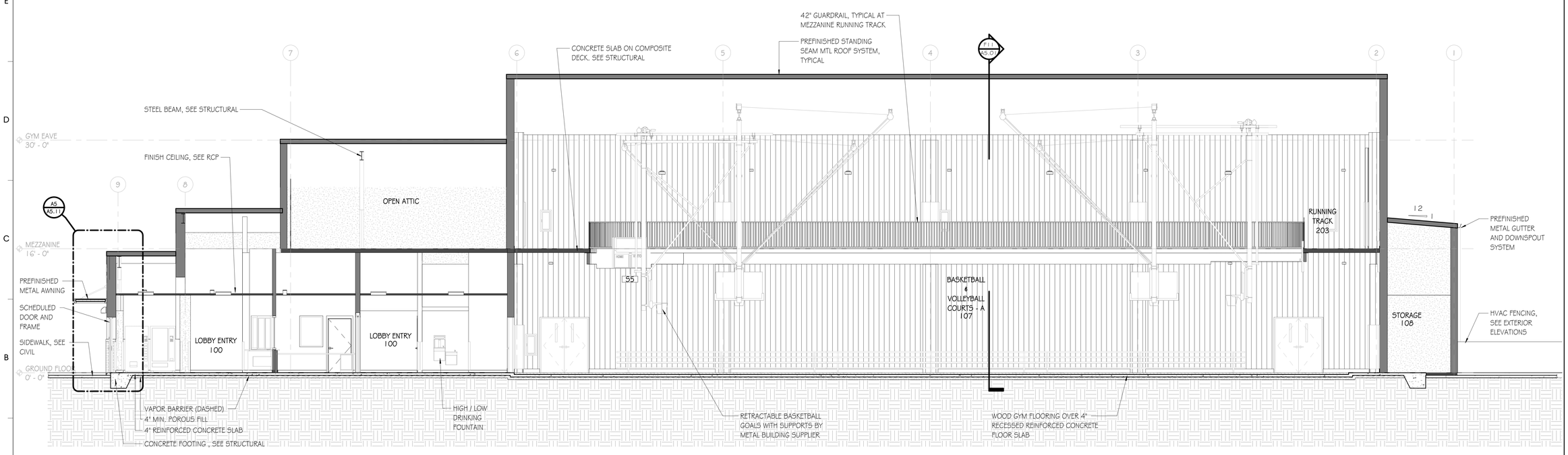



## F11 BUILDING SECTION - GYM
SCALE: 3/16" = 1'-0"




## A11 BUILDING SECTION - GYM & SUPPORT SPACES
SCALE: 3/16" = 1'-0"

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**BUILDING SECTIONS**

# A5.01

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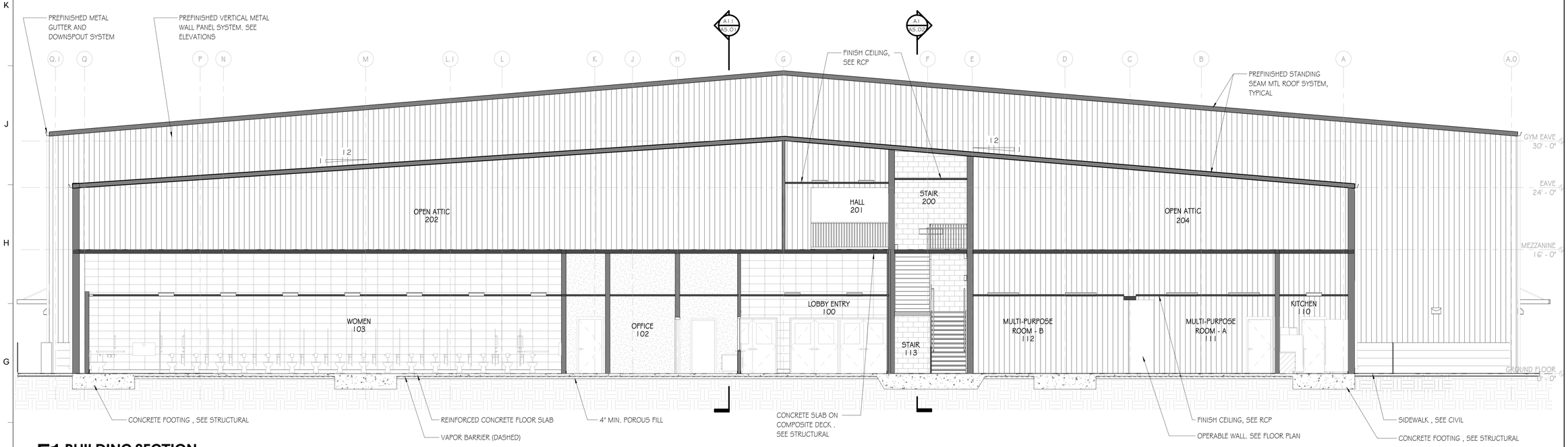
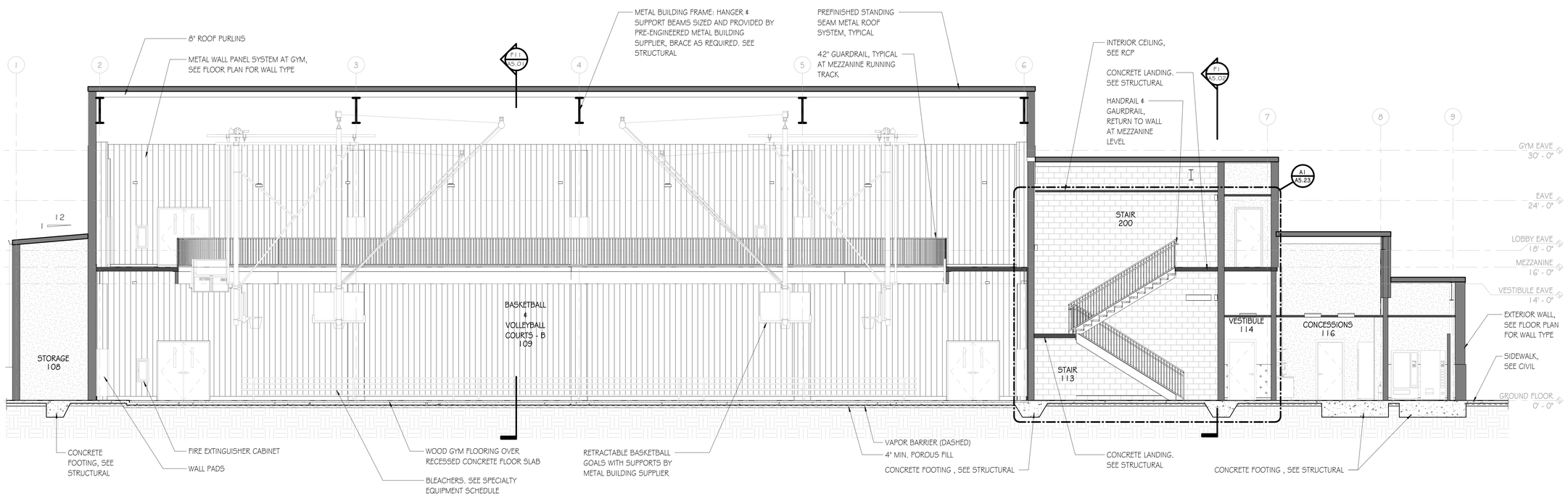



## F1 BUILDING SECTION
SCALE: 3/16" = 1'-0"




## A1 BUILDING SECTION
SCALE: 3/16" = 1'-0"

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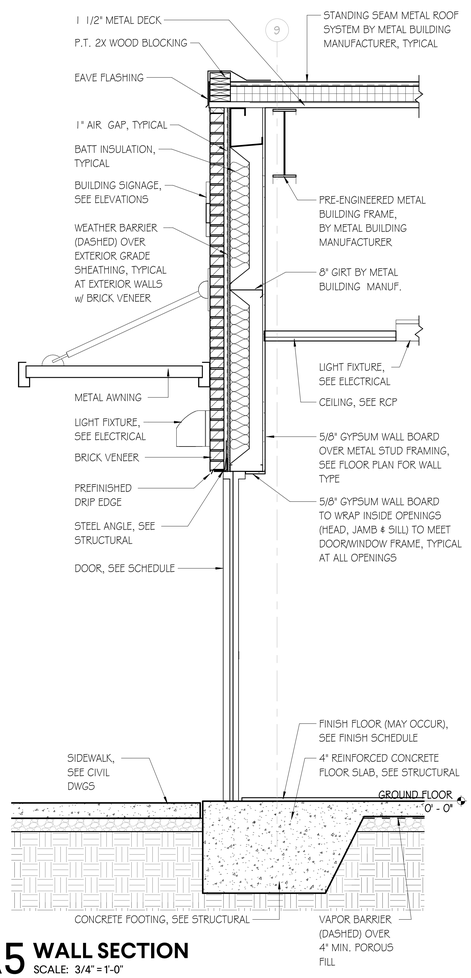
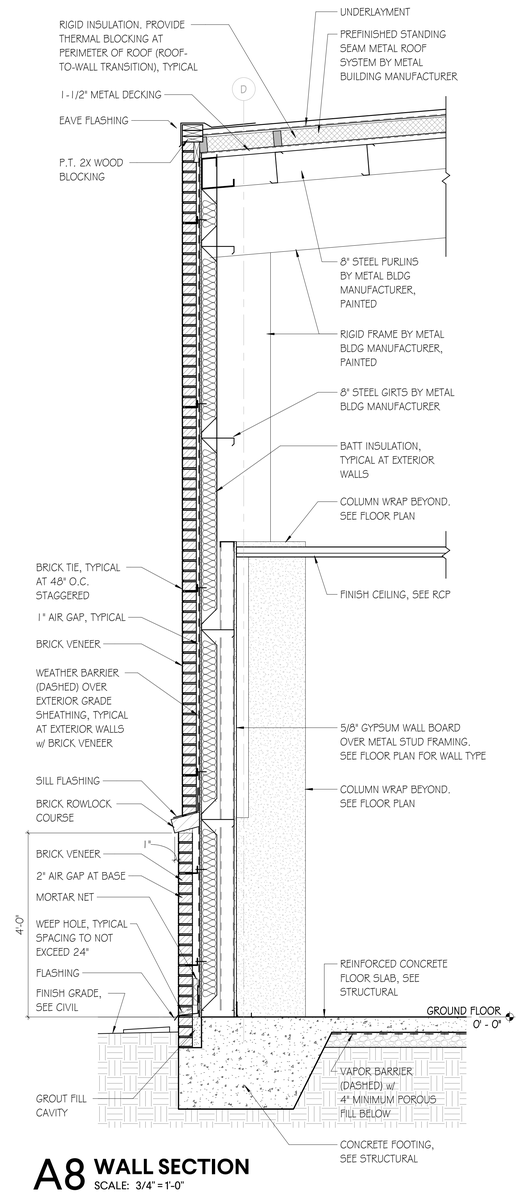
**BUILDING SECTIONS**

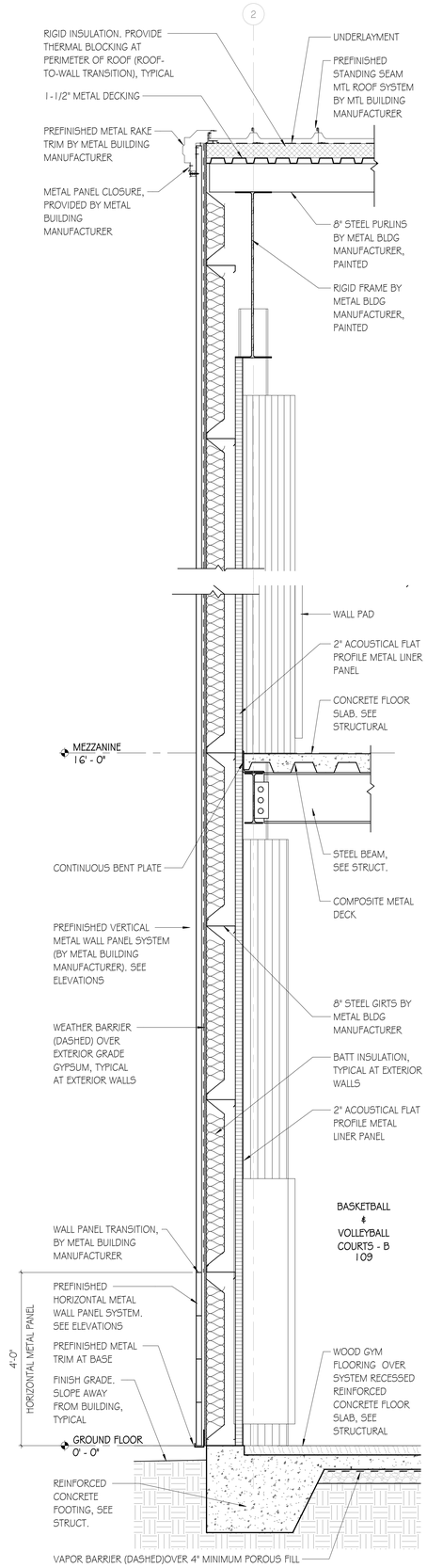
# A5.02




**A5 WALL SECTION**
SCALE: 3/4" = 1'-0"




**A8 WALL SECTION**
SCALE: 3/4" = 1'-0"




**A11 WALL SECTION**
SCALE: 3/4" = 1'-0"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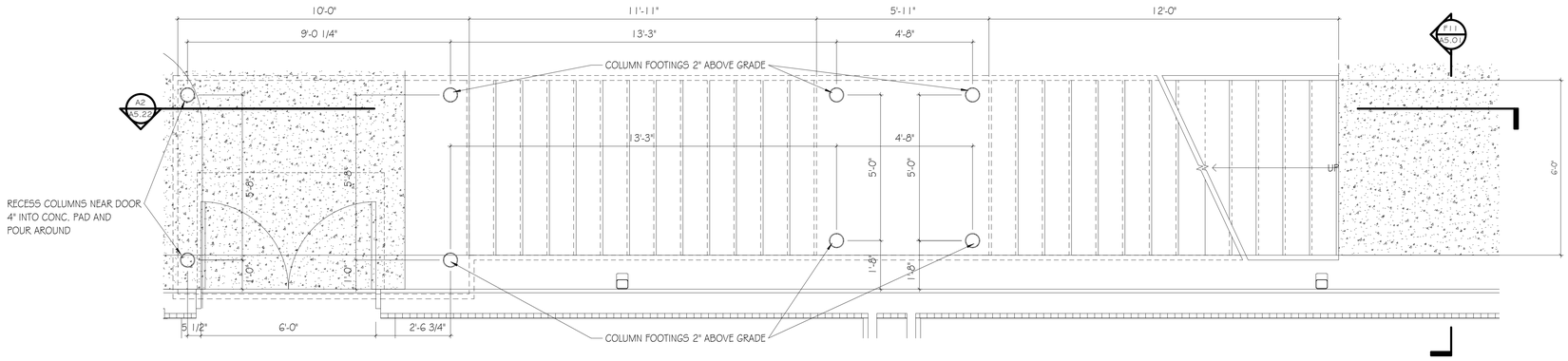
**WALL SECTIONS**

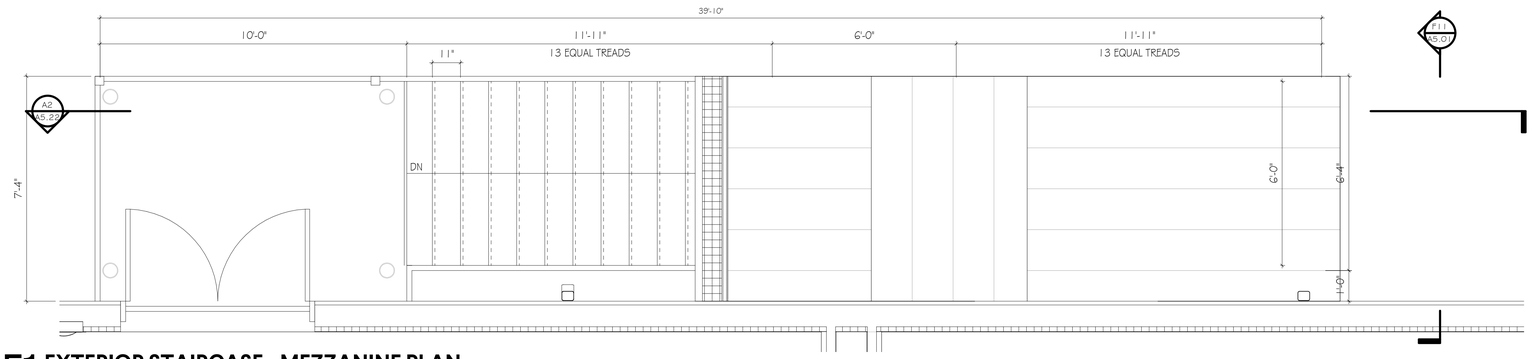
**A5.11**

2/20/2024 12:45:38 PM




## G1 EXTERIOR STAIRCASE - FIRST FLOOR PLAN

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




## F1 EXTERIOR STAIRCASE - MEZZANINE PLAN

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

## A2 EXTERIOR HM STAIRCASE - SECTION

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

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**117 Jefferson Street North**
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**T 256.539.3431**
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**Morgan County, Alabama**

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**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEY'S SPRING, ALABAMA 35754

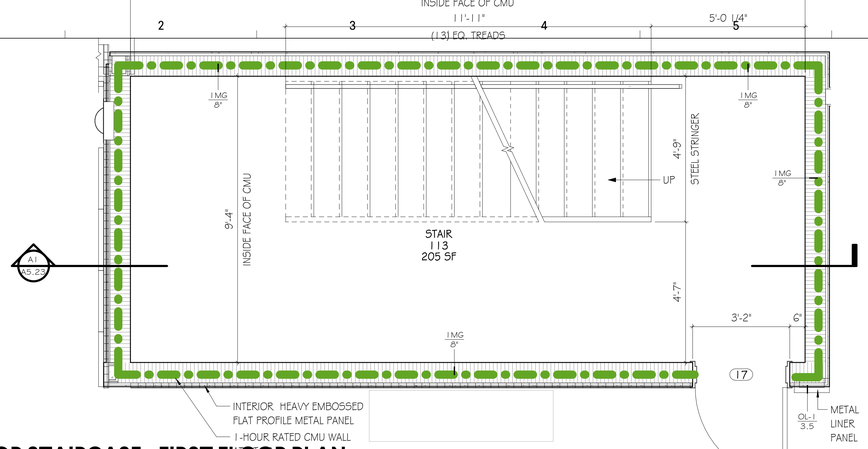
GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

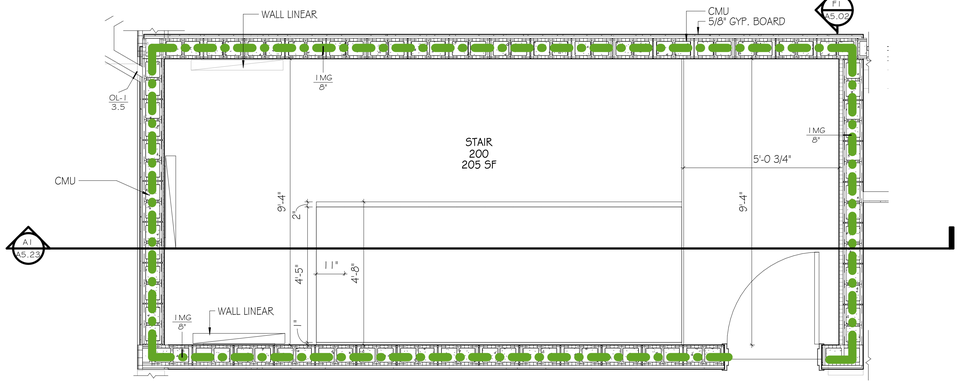
**VERTICAL CIRCULATION**
**EXT STAIR**

# A5.22

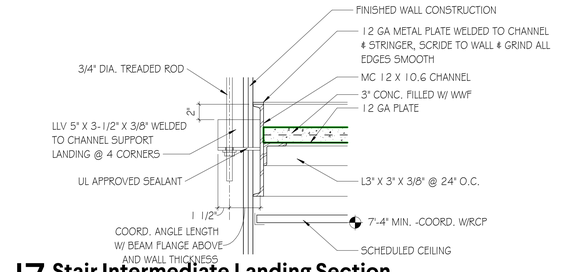
2/20/2024 12:45:40 PM



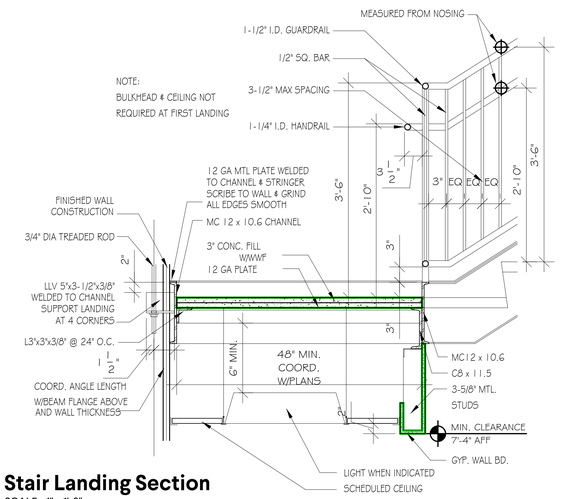

## H1 INTERIOR STAIRCASE - FIRST FLOOR PLAN
SCALE: 1/2" = 1'-0"



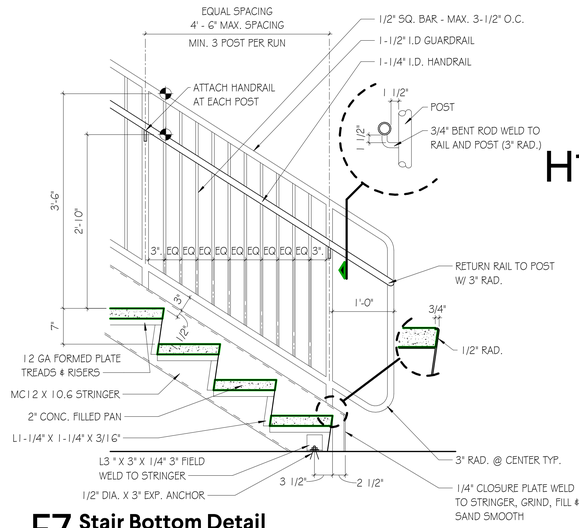

## F1 INT STAIRCASE - MEZZANINE PLAN
SCALE: 1/2" = 1'-0"



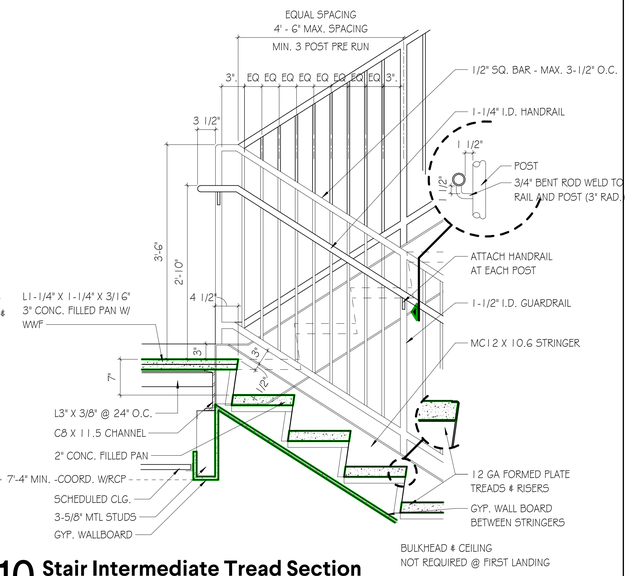

## J7 Stair Intermediate Landing Section
SCALE: 11/2" = 1'-0"



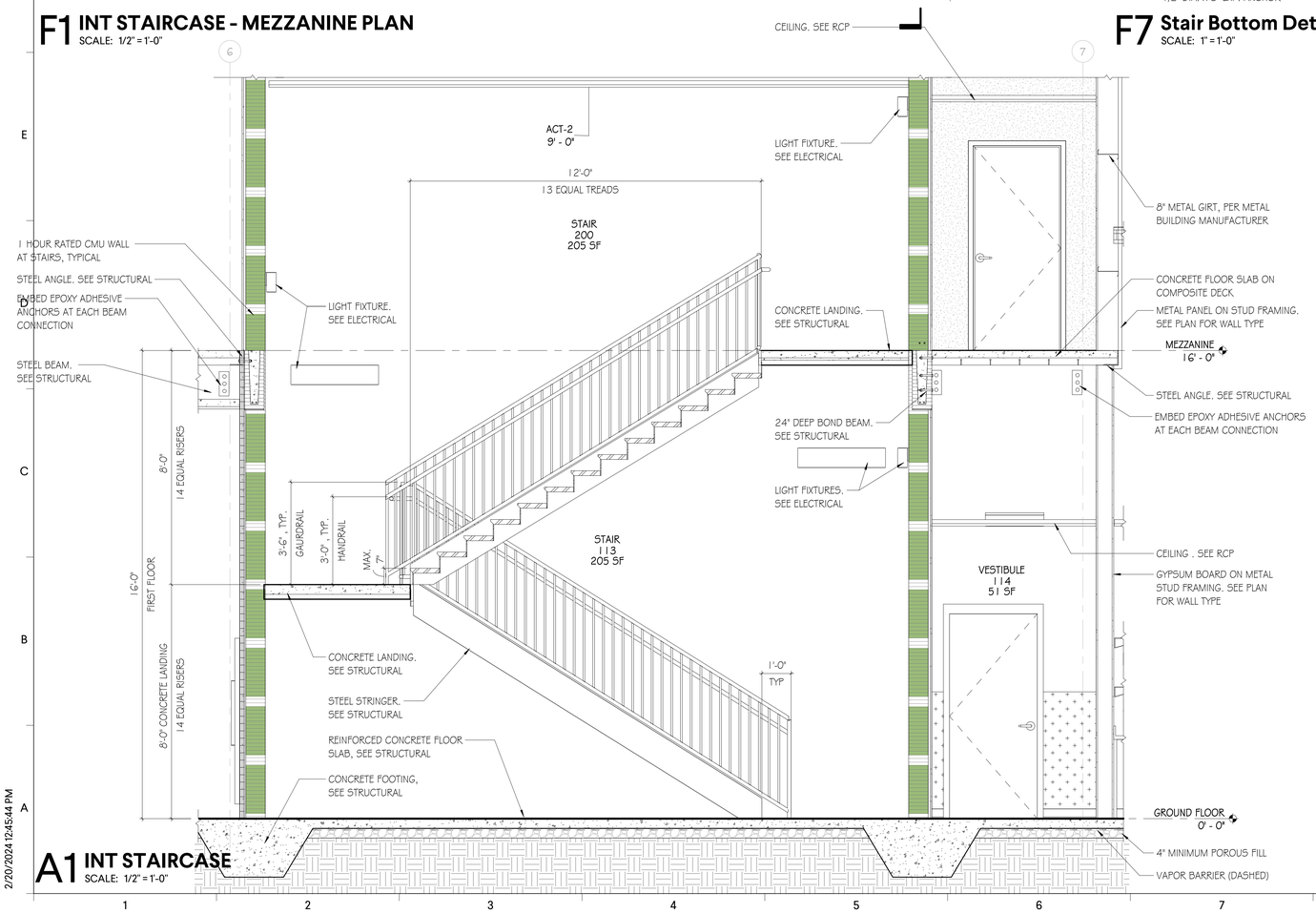

## H10 Stair Landing Section
SCALE: 1" = 1'-0"



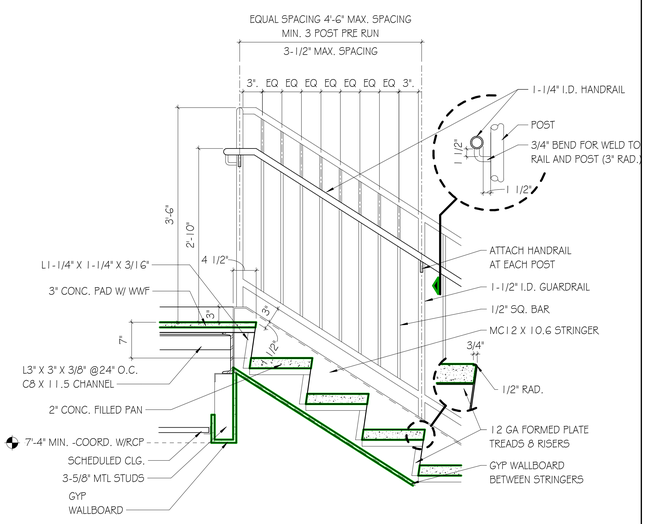

## F7 Stair Bottom Detail
SCALE: 1" = 1'-0"




## E10 Stair Intermediate Tread Section
SCALE: 1" = 1'-0"




## A1 INT STAIRCASE
SCALE: 1/2" = 1'-0"




## A10 Stair Top Tread Detail
SCALE: 1" = 1'-0"

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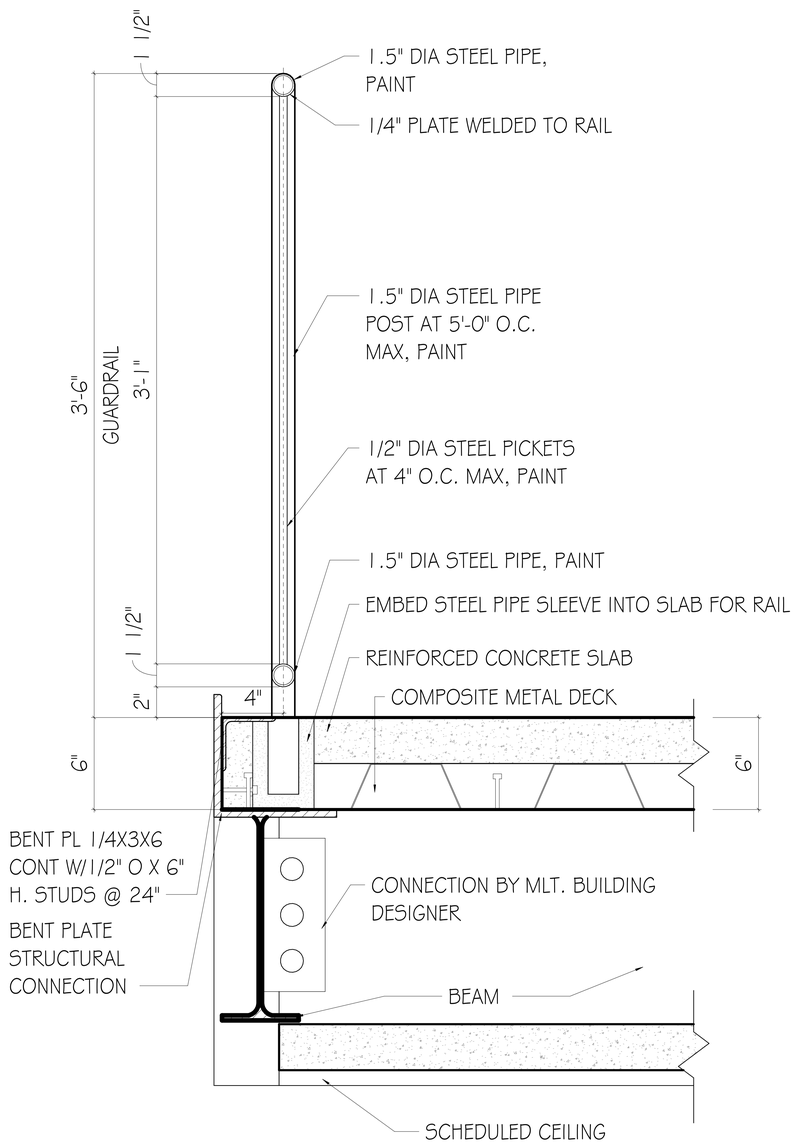
STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

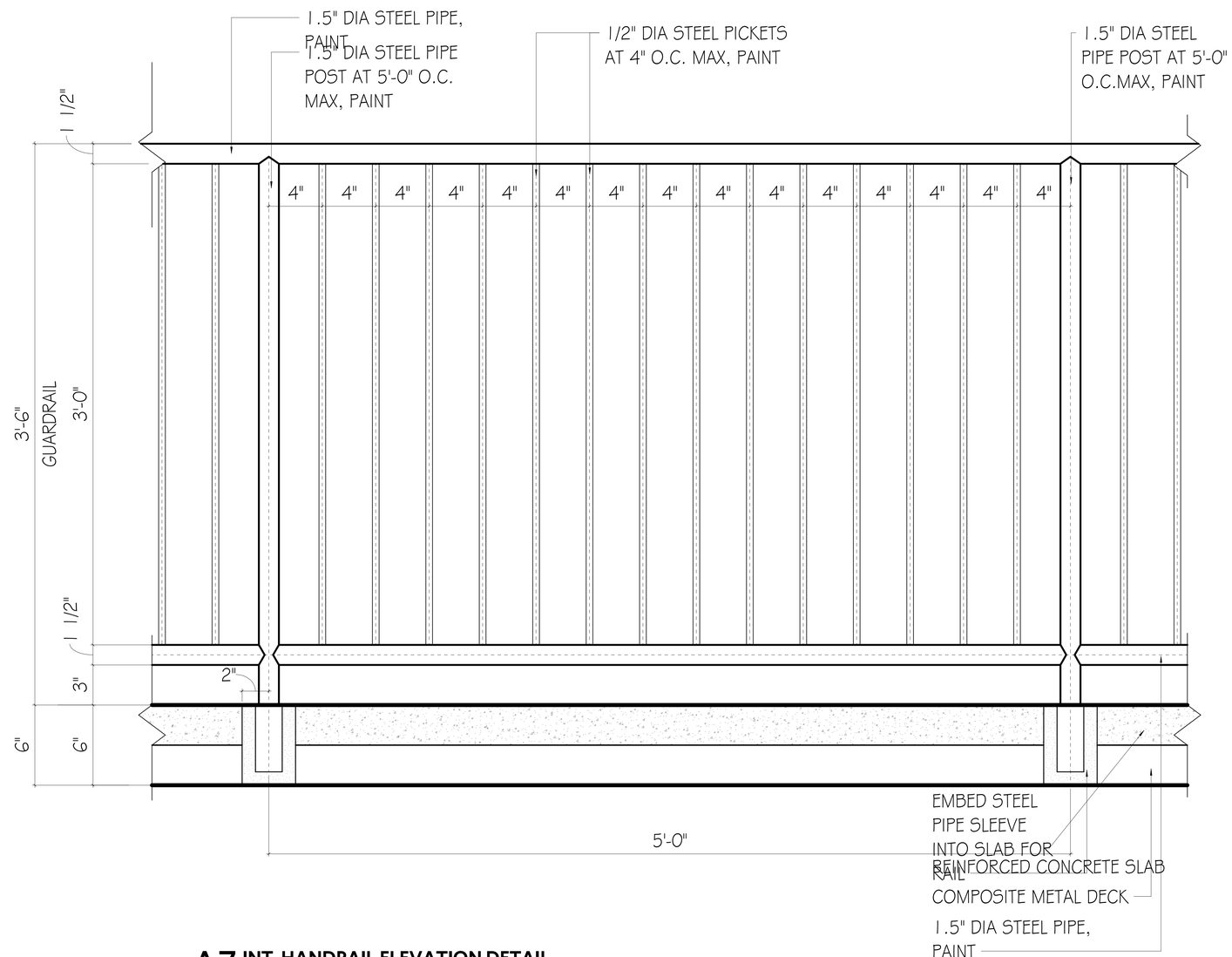
**VERTICAL CIRCULATION**
**INT STAIRWELL**

# A5.23

2/20/2024 12:45:44 PM




**A1** **INT. HANDRAIL DETAIL**
SCALE: 3" = 1'-0"




**A7** **INT. HANDRAIL ELEVATION DETAIL**
SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
2-15-2024

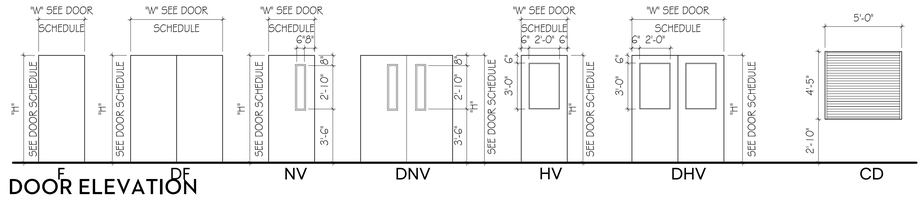
**DETAILS**

A5.24

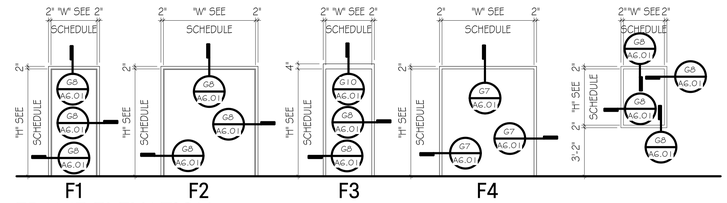
2/20/2024 12:45:45 PM

# DOOR SCHEDULE

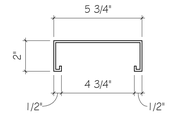
| DOOR No. | DOOR ELEV | DOOR WIDTH (W) | DOOR HEIGHT (H) | DOOR MAT'L | TYPE | FRAME MAT'L | FIRE RATING | HARDWARE FUNCTION | HEAD DETAIL | JAMB DETAIL | SILL DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E7 | A7 | N/A | EXTERIOR DR. |
| 02 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E7 | A7 | N/A | EXTERIOR DR. |
| 03 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E7 | A7 | N/A | EXTERIOR DR. |
| 04 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E7 | A7 | N/A | EXTERIOR DR. |
| 05 | DNV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | MECHANICAL | E9 | A9 | N/A | EXTERIOR DR. |
| 06 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PUBLIC RESTROOM | J1 | F1 | N/A | INTERIOR DR. |
| 07 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PUBLIC RESTROOM | J1 | F1 | N/A | INTERIOR DR. |
| 08 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PUBLIC RESTROOM | J1 | F1 | N/A | INTERIOR DR. |
| 09 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | OFFICE | J1 | F1 | N/A | INTERIOR DR. 180 DEGREE DOOR SWING |
| 10 | DNV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E11 | A11 | N/A | EXTERIOR DR. |
| 11 | DF | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | ELECTRICAL | J8 | F8 | N/A | INTERIOR DR., INSTALL PANIC HARDWARE & CLOSER. |
| 12 | DHV | 6' - 0" | 7' - 0" | SCWD | F-4 | HM | | PASSAGE | J10 | F10 | N/A | INTERIOR DR. |
| 13 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | PASSAGE | J8 | F8 | N/A | INTERIOR DR. |
| 14 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | PASSAGE | J8 | F8 | N/A | INTERIOR DR. |
| 15 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | PASSAGE | J8 | F8 | N/A | INTERIOR DR. |
| 16 | DHV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | PASSAGE | J8 | F8 | N/A | INTERIOR DR. |
| 17 | NV | 3' - 0" | 7' - 0" | SCWD | F-3 | HM | 60-MIN | STAIR EXIT | D1 | A1 | N/A | INTERIOR DR. |
| 18 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PASSAGE | J1 | F1 | N/A | INTERIOR DR. |
| 19 | CD | 5' - 0" | 4' - 4" | ALUM | NA | ALUM | | | CD | CD | SILL HEIGHT 3'-0" | INTERIOR- OVERHEAD COUNTER DOOR |
| 20 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PASSAGE | J1 | F1 | N/A | INTERIOR DR. |
| 21 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | STORE | J1 | F1 | N/A | INTERIOR DR. 180 DEGREE DOOR SWING |
| 22 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PASSAGE | J1 | F1 | N/A | INTERIOR DR. |
| 23 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PASSAGE | J8 | F8 | N/A | INTERIOR DR. |
| 24 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | PASSAGE | J8 | F8 | N/A | INTERIOR DR. |
| 25 | DNV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E11 | A11 | N/A | EXTERIOR DR. |
| 26 | DNV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E11 | A11 | N/A | EXTERIOR DR. |
| 27 | DF | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | STORE | E11 | A11 | N/A | EXTERIOR DR. |
| 28 | DHV | 6' - 0" | 7' - 0" | SCWD | F-4 | HM | | PASSAGE | E11 | A11 | N/A | INTERIOR DOUBLE ACTING DR. |
| 29 | DF | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | STORE | E11 | A11 | N/A | EXTERIOR DR. |
| 30 | DNV | 6' - 0" | 7' - 0" | INSUL. MTL. | F-2 | HM | | EXIT | E11 | A11 | N/A | EXTERIOR DR. |
| 31 | NV | 3' - 0" | 7' - 0" | SCWD | F-3 | HM | 60-MIN | STAIR EXIT | D1 | A1 | N/A | INTERIOR DR. |
| 32 | F | 3' - 0" | 7' - 0" | SCWD | F-1 | HM | | ATTIC 204 | J6 | F6 | N/A | INTERIOR DR., LOCKABLE |
| 34 | DNV | 6' - 0" | 7' - 0" | INSUL. MTL. | | HM | | | | | | |
| 35 | | 3' - 0" | 7' - 0" | | | | | | | | | POCKET (SLIDING) DR. |
| 36 | F | 3' - 0" | 7' - 0" | SCWD | | HM | | | | | | |
| 37 | | 3' - 0" | 4' - 0" | | | | | | | | | |



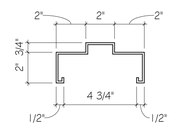

## DOOR ELEVATION
SCALE: 1/4" = 1'-0"



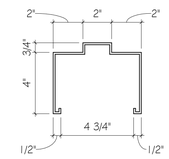

## FRAME ELEVATION
SCALE: 1/4" = 1'-0"



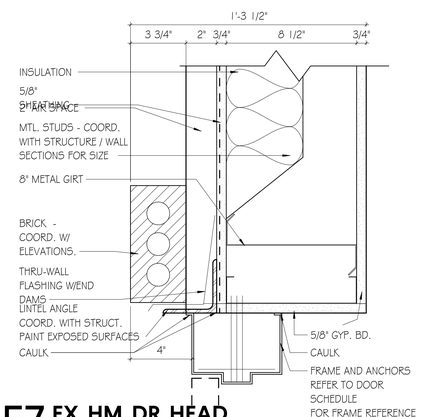

## G7 HM FRAME SECTION DOUBLE ACTING
SCALE: 3" = 1'-0"



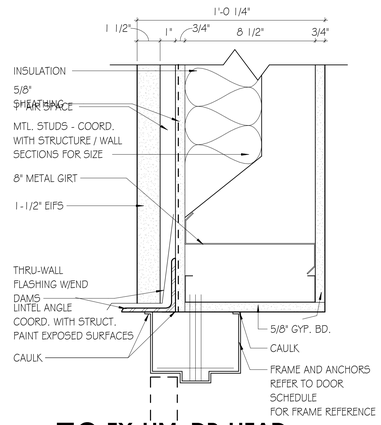

## G8 HM FRAME SECTION
SCALE: 3" = 1'-0"



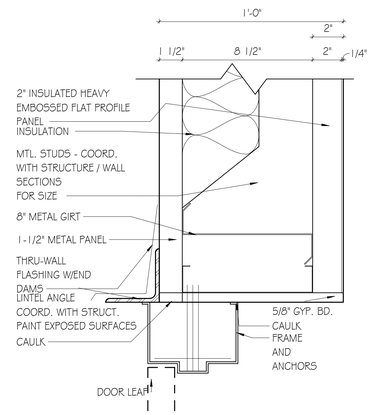

## G10 HM FRAME SECTION
SCALE: 3" = 1'-0"



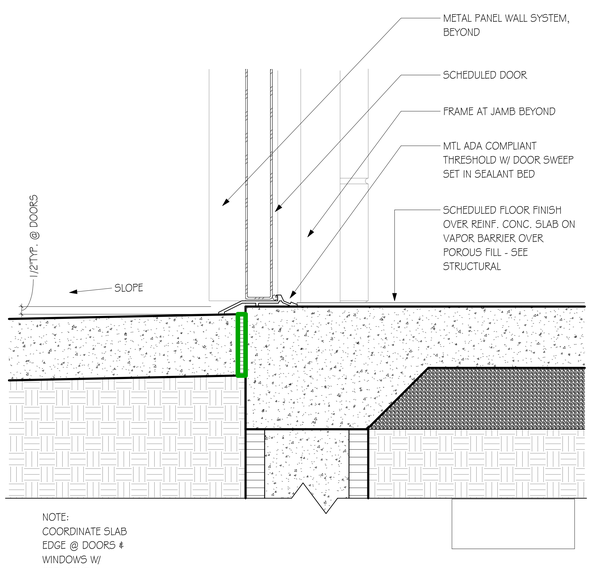

## E7 EX. HM. DR. HEAD
SCALE: 3" = 1'-0"



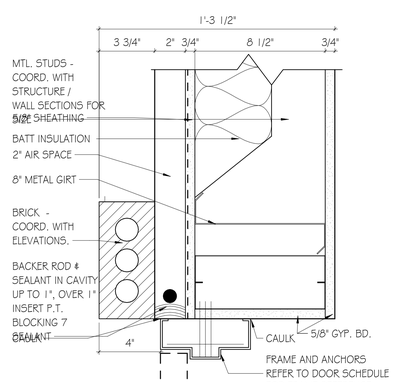

## E9 EX. HM. DR. HEAD
SCALE: 3" = 1'-0"



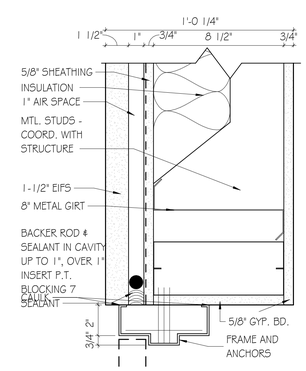

## E11 EX. HM. DR. HEAD
SCALE: 3" = 1'-0"



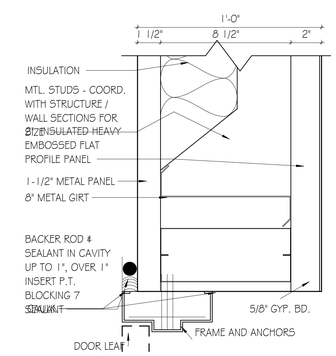

## A2 HM. DR. THRESHOLD
SCALE: 3" = 1'-0"




## A7 EX. HM. DR. JAMB
SCALE: 3" = 1'-0"




## A9 EX HM. DR. JAMB
SCALE: 3" = 1'-0"




## A11 EX. HM. DR. JAMB
SCALE: 3" = 1'-0"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STATE of ALABAMA
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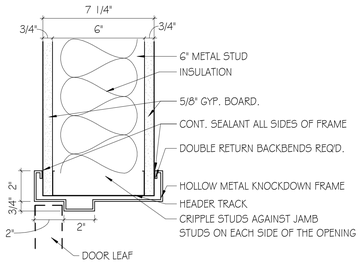
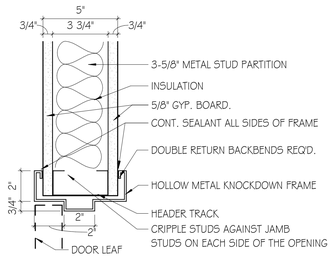
**DOOR SCHEDULE, LEGEND, & DETAILS**

A6.01

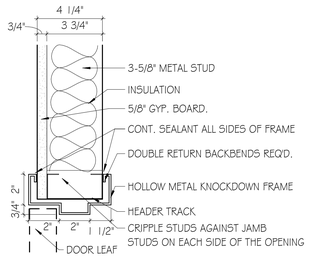
2/20/2024 12:45:47 PM



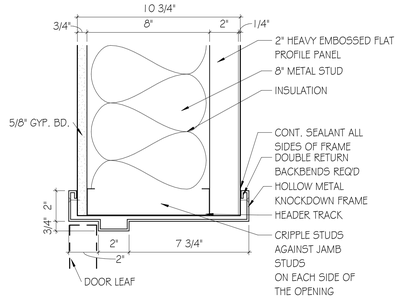

## J1 INT. HM. DR. HEAD
SCALE: 3" = 1'-0"



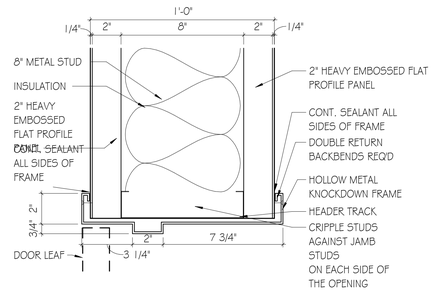

## J3 INT. HM. DR. HEAD
SCALE: 3" = 1'-0"



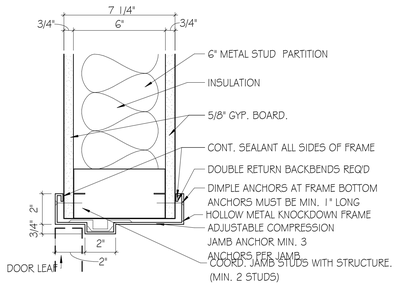

## J5 INT. HM. DR. HEAD
SCALE: 3" = 1'-0"



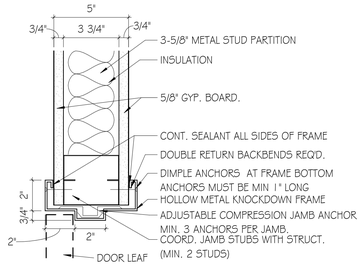

## J8 INT. HM. DR. HEAD
SCALE: 3" = 1'-0"



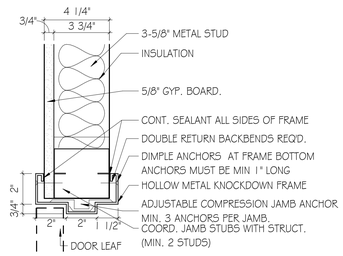

## J10 INT. HM. DR. HEAD
SCALE: 3" = 1'-0"



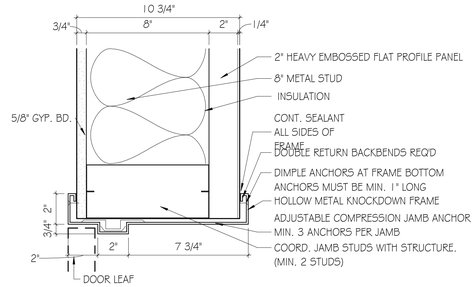

## F1 INT. HM. DR. JAMB
SCALE: 3" = 1'-0"



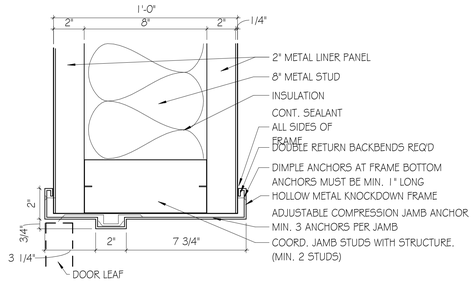

## F3 INT. HM. DR. JAMB
SCALE: 3" = 1'-0"



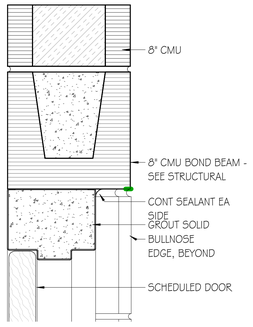

## F5 INT. HM. DR. JAMB
SCALE: 3" = 1'-0"



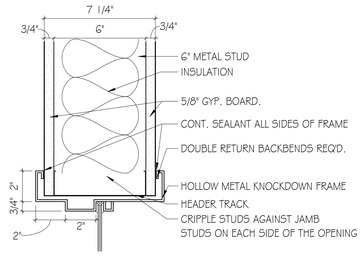

## F8 INT. HM. DR. JAMB
SCALE: 3" = 1'-0"



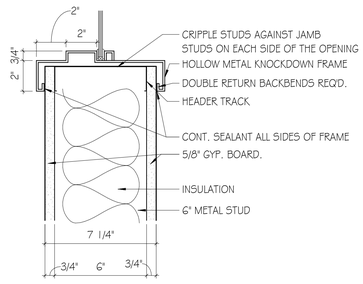

## F10 INT. HM. DR. JAMB
SCALE: 3" = 1'-0"



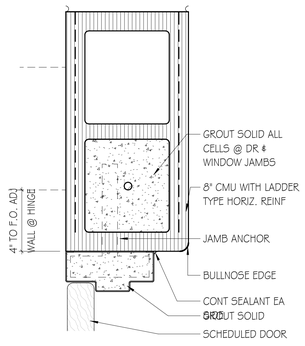

## C1 INT. HM. DR. HEAD
SCALE: 3" = 1'-0"



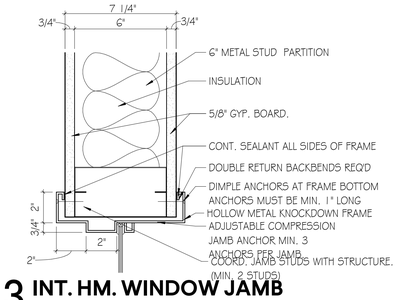

## C3 INT. HM. WINDOW HEAD
SCALE: 3" = 1'-0"




## C5 INT. HM. WINDOW SILL
SCALE: 3" = 1'-0"




## A1 INT. HM. DR. JAMB
SCALE: 3" = 1'-0"




## A3 INT. HM. WINDOW JAMB
SCALE: 3" = 1'-0"

2/20/2024 12:45:49 PM

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117 Jefferson Street North
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Morgan County, Alabama

| ISSUE | DATE |
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| ISSUED FOR BID | 2.15.24 |

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**MORGAN COUNTY EVENT CENTER**
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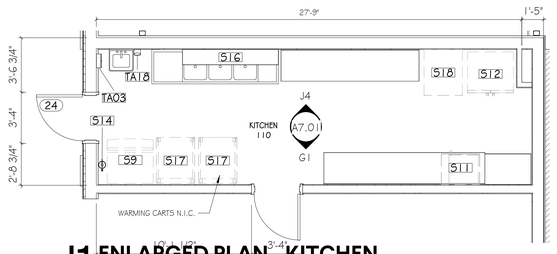
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

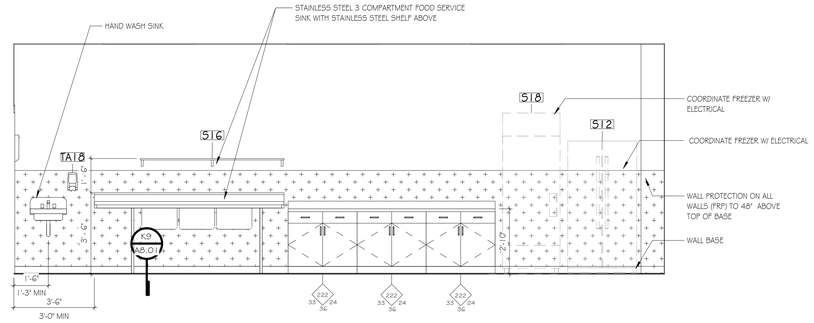
STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

**DOOR DETAILS**

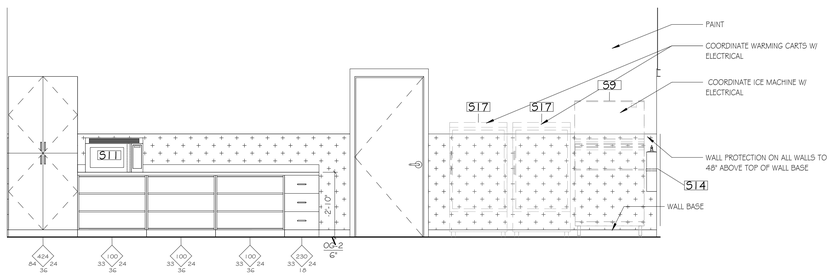
A6.02



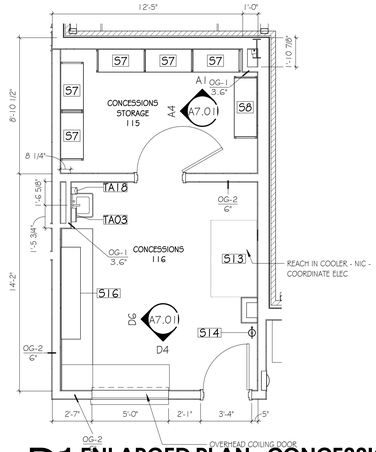

## J1 ENLARGED PLAN - KITCHEN
SCALE: 1/4" = 1'-0"



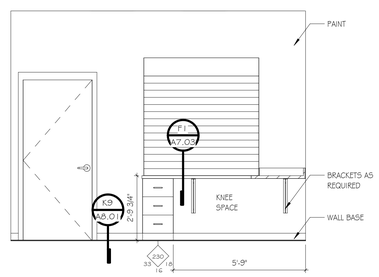

## J4 INTERIOR ELEVATION - KITCHEN - N
SCALE: 3/8" = 1'-0"



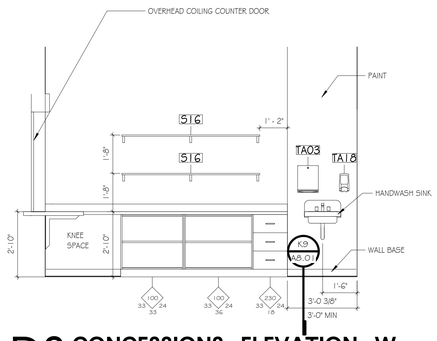

## G1 INTERIOR ELEVATION - KITCHEN - S
SCALE: 3/8" = 1'-0"



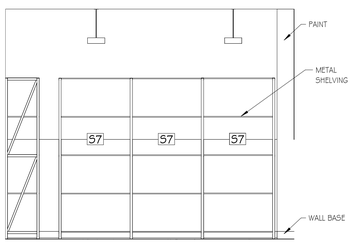

## D1 ENLARGED PLAN - CONCESSIONS
SCALE: 1/4" = 1'-0"



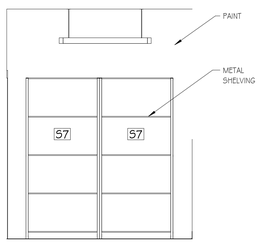

## D4 CONCESSIONS - ELEVATION - S
SCALE: 3/8" = 1'-0"




## D6 CONCESSIONS - ELEVATION - W
SCALE: 3/8" = 1'-0"




## A1 CONCESSIONS STORAGE -ELEV- N
SCALE: 3/8" = 1'-0"




## A4 CONCESSION STORAGE - ELEV - W
SCALE: 3/8" = 1'-0"

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| S2 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| S4 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S4A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S4B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S5 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| S6 | MOP SINK | CFCI |
| S7 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| S8 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| S9 | ICE MACHINE | OFCI |
| S10 | VENDING MACHINES | OFCI |
| S11 | MICROWAVE | OFOI |
| S12 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| S13 | COOLER | OFCI |
| S14 | FIRE EXTINGUISHER | CFCI |
| S15 | FIRE EXTINGUISHER CABINET | |
| S16 | STAINLESS STEEL SHELF | CFCI |
| S17 | WARMING CART | OFCI |
| S18 | COMMERCIAL GRADE FREEZER | OFCI |
| S19 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S19A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S19B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S20 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| S21 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| S22 | MOP HOLDER & SHELF - 36"W | CFCI |

## CASEWORK SCHEDULE

NOTE: CABINET DESIGN SERIES (CDS) NUMBERS BASED ON AWI STANDARDS EDITION 2

| CDS # | CASEWORK TYPE | DESCRIPTION |
|---|---|---|
| 100 | BASE CAB | OPEN W/ ADJUSTABLE SHELVES |
| 222 | BASE CAB | DBL DOORS / DBL DRWRS |
| 230 | BASE CAB | BASE CABINET WITH 3 EQUAL SIZE DRAWERS |
| 424 | TALL STG CAB | 4 DOORS |

## TOILET ACCESSORIES SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| TA01 | TOILET TISSUE DISP - DBL. STD. ROLL W/SHELF | CFCI |
| TA03 | PAPER TOWEL DISPENSER (FOLDED, HIGH-CAPACITY) | CFCI |
| TA16 | COMBO TOWEL DISPENSER/WASTE RECEPTACLE (RECESSED, FOLDED) | CFCI |
| TA18 | STERIS SDS SOAP DISPENSER, SURFACE-MOUNT, MANUAL (LIQUID TYPE) | CFCI |
| TA23 | 18" VERTICAL GRAB BAR | CFCI |
| TA24 | 36" HORIZONTAL GRAB BAR | CFCI |
| TA25 | 42" HORIZONTAL GRAB BAR | CFCI |
| TA30 | MIRROR, CHANNEL FRAMED WITHOUT SHELF (18 x 36 INCHES) | CFCI |
| TA36 | SANITARY NAPKIN DISPOSAL - SURF-MT, BOTTOM HINGED | CFCI |
| TA85 | DIAPER CHANGING STATION, SURFACE-MOUNT | CFCI |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STATE of ALABAMA
Jay W Purkey
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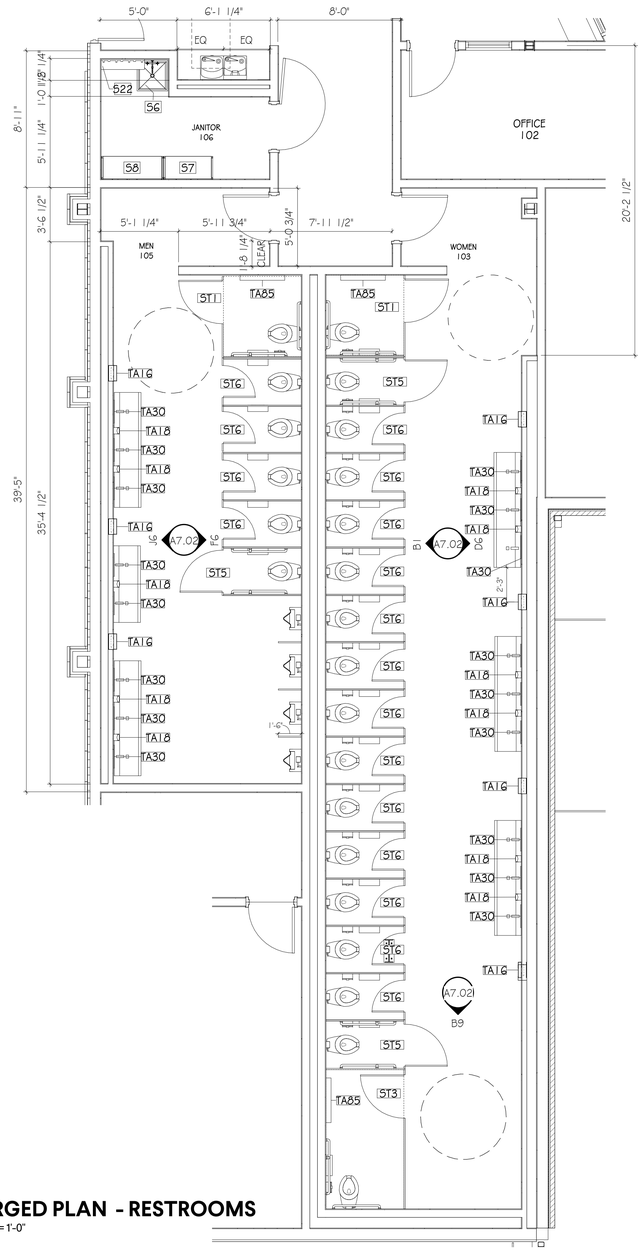
REGISTERED ARCHITECT
2-15-2024

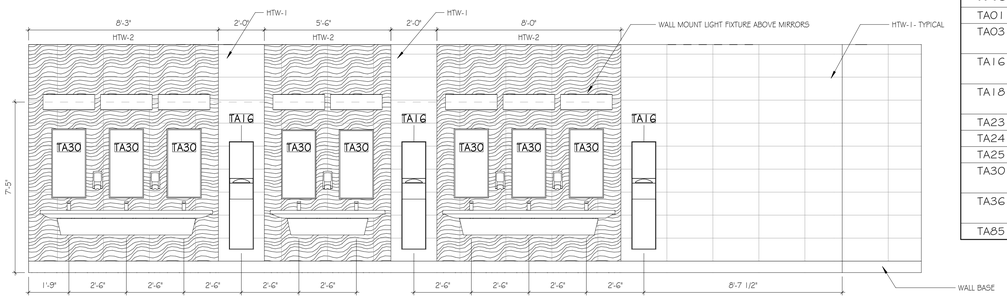
**ENLARGED PLANS & INTERIOR ELEVATIONS**

A7.01

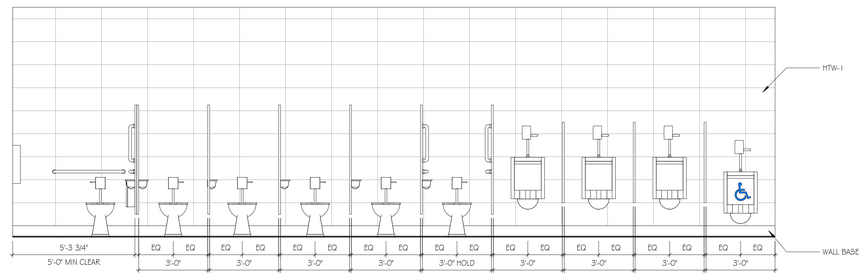
2/20/2024 12:45:53 PM



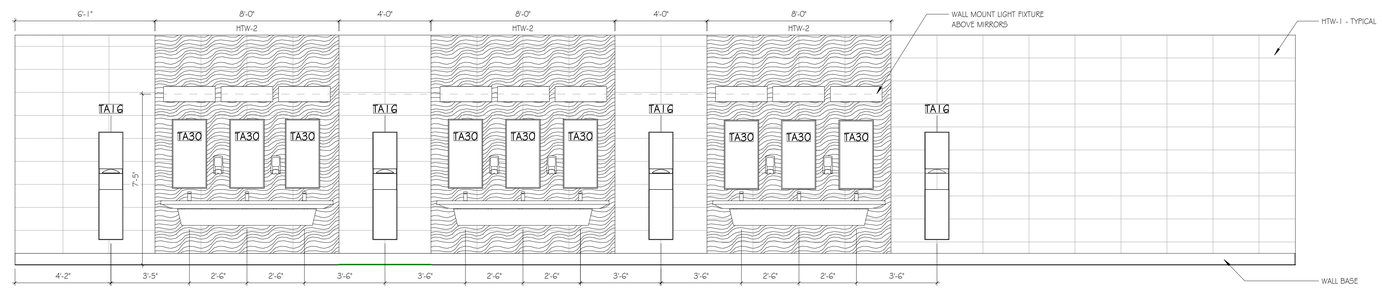

## C2 ENLARGED PLAN - RESTROOMS
SCALE: 1/4" = 1'-0"



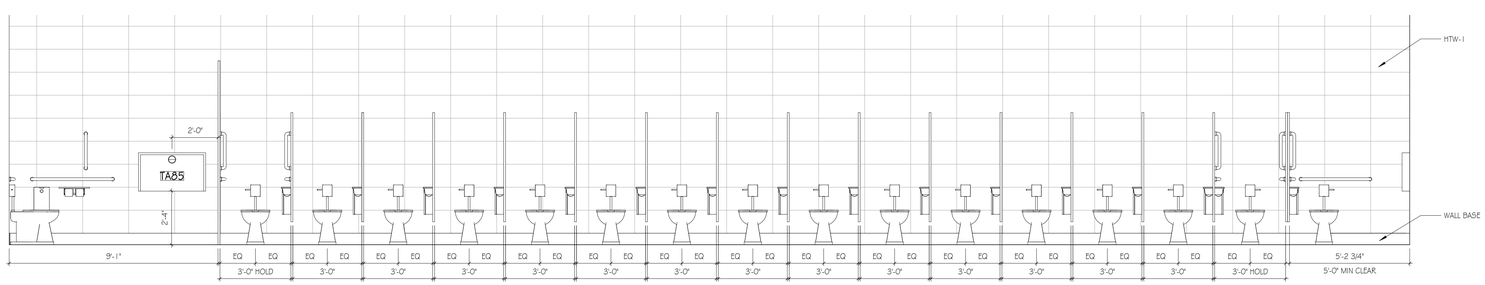

## J6 INTERIOR ELEVATION - MEN - W
SCALE: 3/8" = 1'-0"



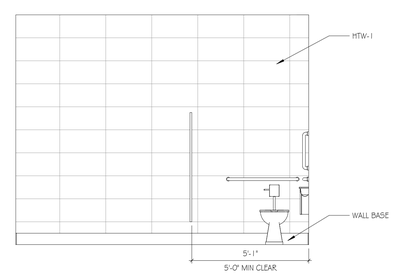

## F6 INTERIOR ELEVATION - MEN - E
SCALE: 3/8" = 1'-0"




## D6 INTERIOR ELEVATION - WOMENS- E
SCALE: 3/8" = 1'-0"




## B1 INTERIOR ELEVATION - WOMENS
SCALE: 3/8" = 1'-0"




## B9 WOMEN - ELEVATION - S
SCALE: 3/8" = 1'-0"

## TOILET ACCESSORIES SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| TA01 | TOILET TISSUE DISP - DBL. STD. ROLL W/SHELF | CFCI |
| TA03 | PAPER TOWEL DISPENSER (FOLDED, HIGH-CAPACITY) | CFCI |
| TA16 | COMBO TOWEL DISPENSER/WASTE RECEPTACLE (RECESSED, FOLDED) | CFCI |
| TA18 | STERIS SDS SOAP DISPENSER, SURFACE-MOUNT, MANUAL (LIQUID TYPE) | CFCI |
| TA23 | 18" VERTICAL GRAB BAR | CFCI |
| TA24 | 36" HORIZONTAL GRAB BAR | CFCI |
| TA25 | 42" HORIZONTAL GRAB BAR | CFCI |
| TA30 | MIRROR, CHANNEL FRAMED WITHOUT SHELF (18 x 36 INCHES) | CFCI |
| TA36 | SANITARY NAPKIN DISPOSAL - SURF-MT, BOTTOM HINGED | CFCI |
| TA85 | DIAPER CHANGING STATION, SURFACE-MOUNT | CFCI |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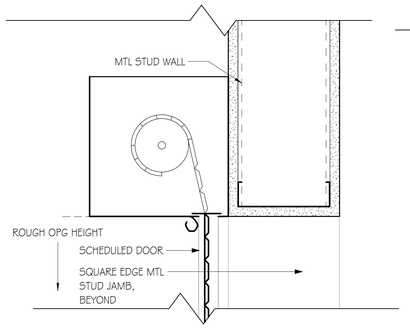
STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

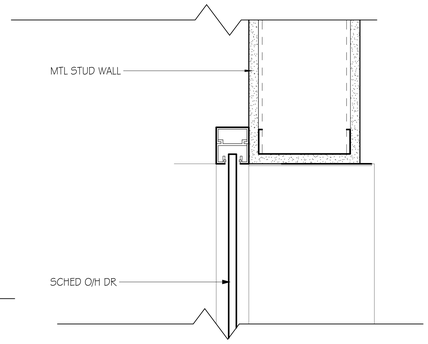
**ENLARGED PLANS & INTERIOR ELEVATIONS**

A7.02

2/20/2024 12:45:58 PM

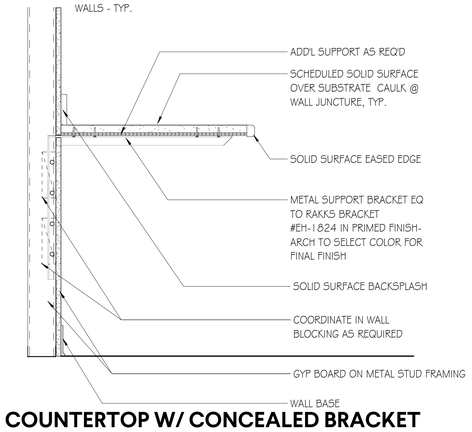



## H1 O/H COILING WN HEAD - TYPICAL
SCALE: 3" = 1'-0"

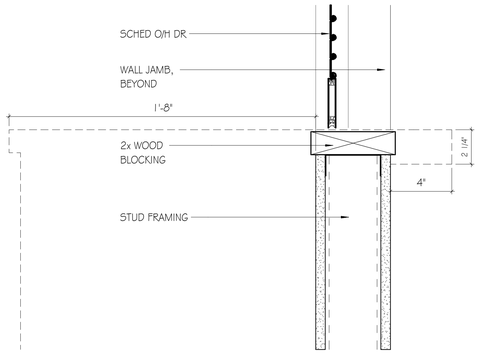



## H4 O/H COILING WN JAMB - TYPICAL
SCALE: 3" = 1'-0"

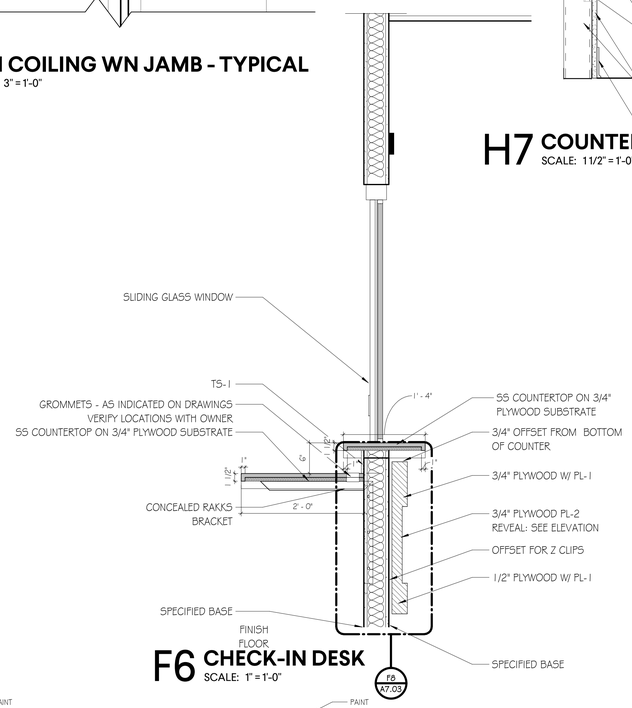
NOTES:
1. COUNTERTOP COMPOSITION TYPICAL FOR ALL COUNTERTOPS IN PROJECT.
2. BRACKET TO BE CONCEALED IN GYP WALL LOCATIONS AND SURFACE MOUNTED AT CMU WALLS - TYP.



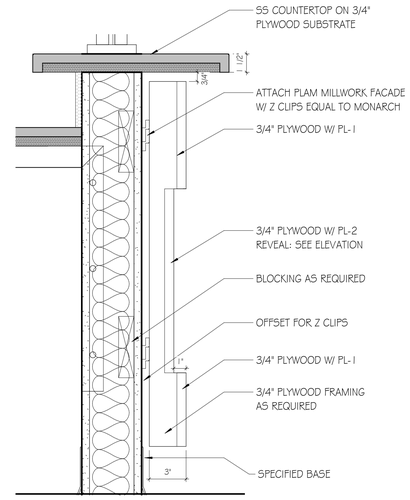

## H7 COUNTERTOP W/ CONCEALED BRACKET
SCALE: 11/2" = 1'-0"




## F1 O/H COILING WN SILL - COUNTER
SCALE: 3" = 1'-0"



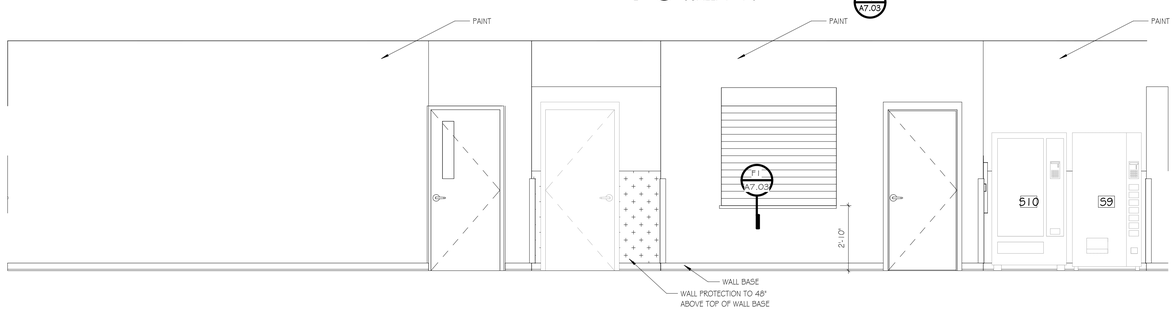

## F6 CHECK-IN DESK
SCALE: 1" = 1'-0"



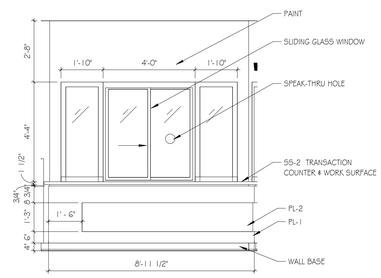

## F8 CHECK-IN DESK ENLARGED
SCALE: 1:5

| SPECIALTY EQUIPMENT SCHEDULE | | |
|---|---|---|
| TAG | DESCRIPTION | COMMENTS |
| S2 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| S4 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S4A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S4B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S5 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| S6 | MOP SINK | CFCI |
| S7 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| S8 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| S9 | ICE MACHINE | OFCI |
| S10 | VENDING MACHINES | OFCI |
| S11 | MICROWAVE | OFOI |
| S12 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| S13 | COOLER | OFCI |
| S14 | FIRE EXTINGUISHER | CFCI |
| S15 | FIRE EXTINGUISHER CABINET | |
| S16 | STAINLESS STEEL SHELF | CFCI |
| S17 | WARMING CART | OFCI |
| S18 | COMMERCIAL GRADE FREEZER | OFCI |
| S19 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S19A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S19B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S20 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| S21 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| S22 | MOP HOLDER & SHELF - 36"W | CFCI |

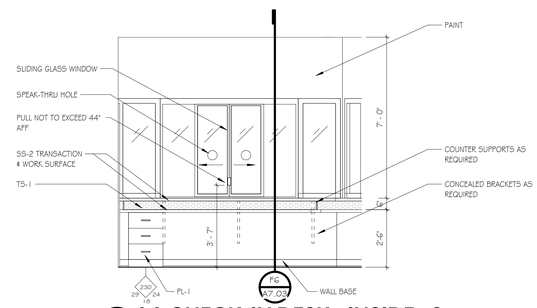
| CASEWORK SCHEDULE | | |
|---|---|---|
| NOTE: CABINET DESIGN SERIES (CDS) NUMBERS BASED ON AWI STANDARDS EDITION 2 | | |
| CDS # | CASEWORK TYPE | DESCRIPTION |
| 100 | BASE CAB | OPEN W/ ADJUSTABLE SHELVES |
| 222 | BASE CAB | DBL DOORS / DBL DRWRS |
| 230 | BASE CAB | BASE CABINET WITH 3 EQUAL SIZE DRAWERS |
| 424 | TALL STG CAB | 4 DOORS |



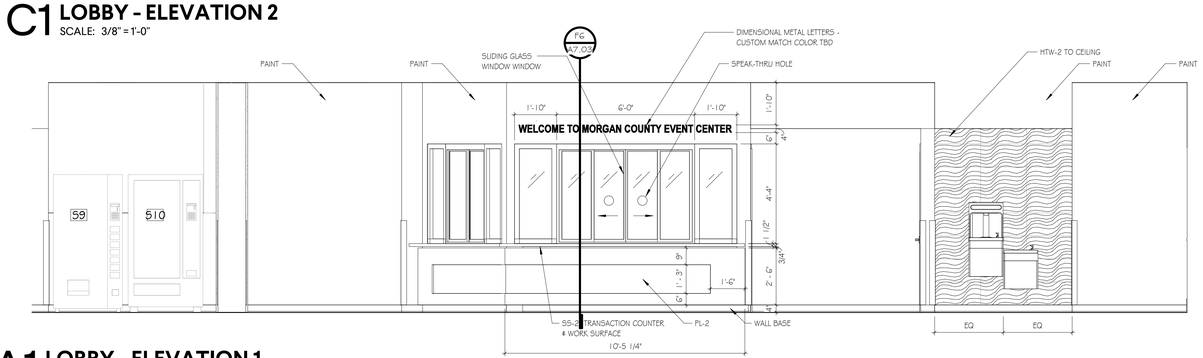

## C1 LOBBY - ELEVATION 2
SCALE: 3/8" = 1'-0"



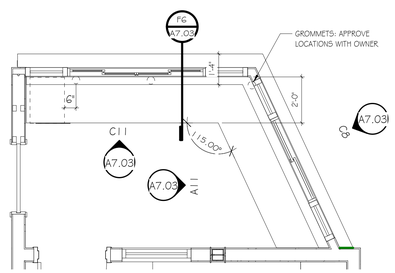

## C8 CHECK-IN DESK - FRONT 1
SCALE: 3/8" = 1'-0"



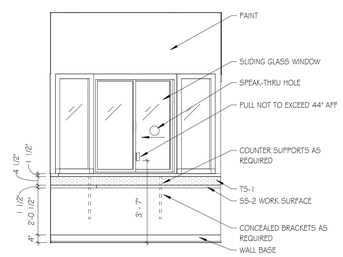

## C11 CHECK-IN DESK - INSIDE - 2
SCALE: 3/8" = 1'-0"




## A1 LOBBY - ELEVATION 1
SCALE: 3/8" = 1'-0"




## A8 ENLARGED PLAN - CHECK-IN DESK
SCALE: 3/8" = 1'-0"




## A11 CHECK-IN DESK - INSIDE - 1
SCALE: 3/8" = 1'-0"

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Morgan County, Alabama

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MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
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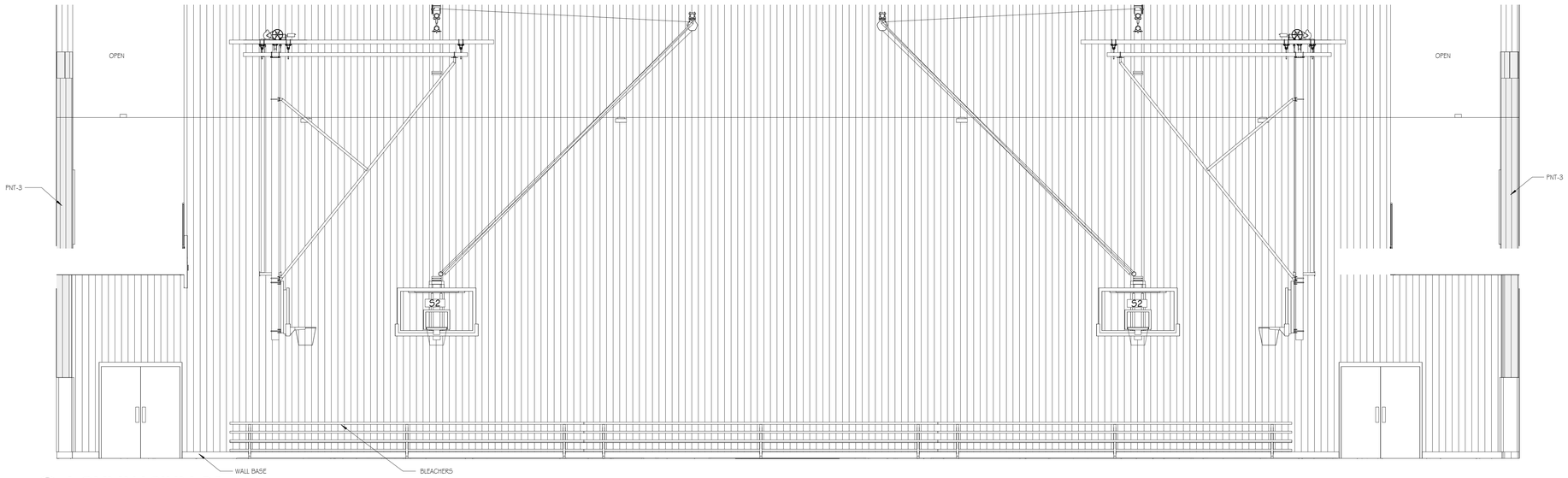
GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owen Gross Roads
Alabama
REGISTERED ARCHITECT
2-15-2024

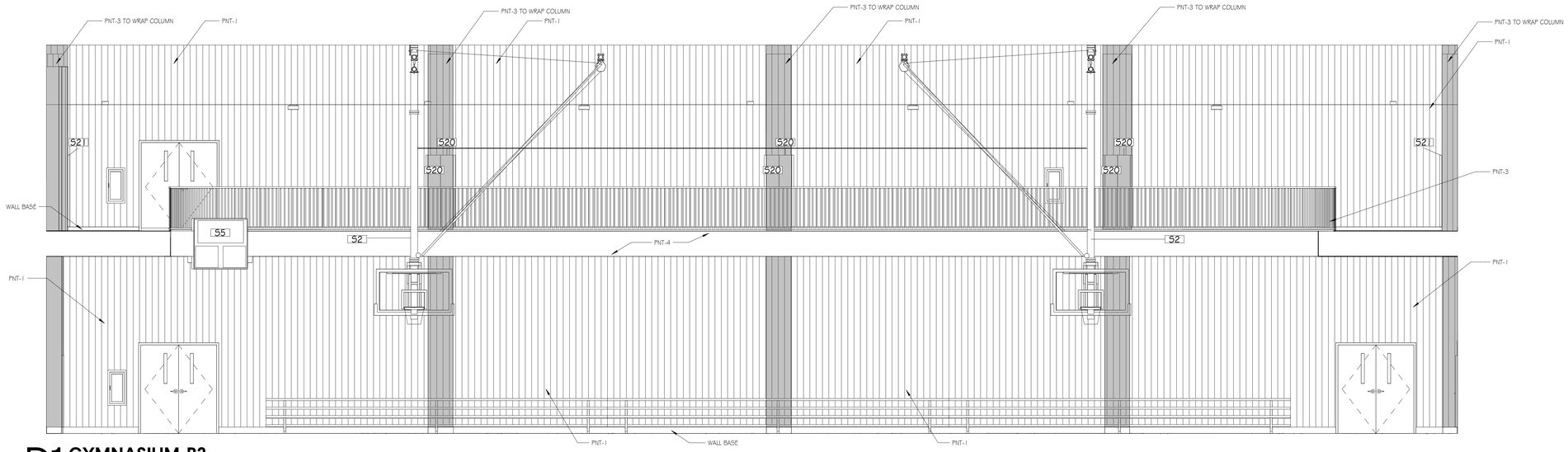
INTERIOR ELEVATIONS

A7.03

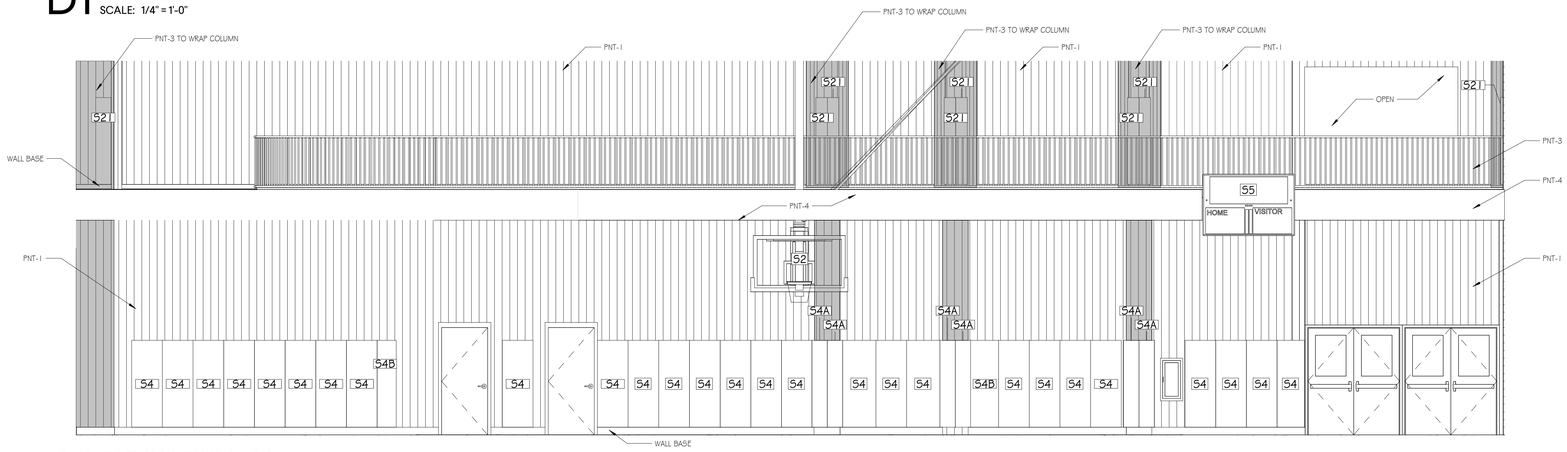
2/20/2024 12:46:01 PM




## G1 GYMNASIUM-B3
SCALE: 1/4" = 1'-0"




## D1 GYMNASIUM-B2
SCALE: 1/4" = 1'-0"




## A1 GYMNASIUM - B1
SCALE: 1/4" = 1'-0"

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| 52 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| 54 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| 54A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| 54B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| 55 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| 56 | MOP SINK | CFCI |
| 57 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| 58 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| 59 | ICE MACHINE | OFCI |
| 510 | VENDING MACHINES | OFCI |
| 511 | MICROWAVE | OFOI |
| 512 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| 513 | COOLER | OFCI |
| 514 | FIRE EXTINGUISHER | CFCI |
| 515 | FIRE EXTINGUISHER CABINET | |
| 516 | STAINLESS STEEL SHELF | CFCI |
| 517 | WARMING CART | OFCI |
| 518 | COMMERCIAL GRADE FREEZER | OFCI |
| 519 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| 519A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| 519B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| 520 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| 521 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| 522 | MOP HOLDER & SHELF - 36"W | CFCI |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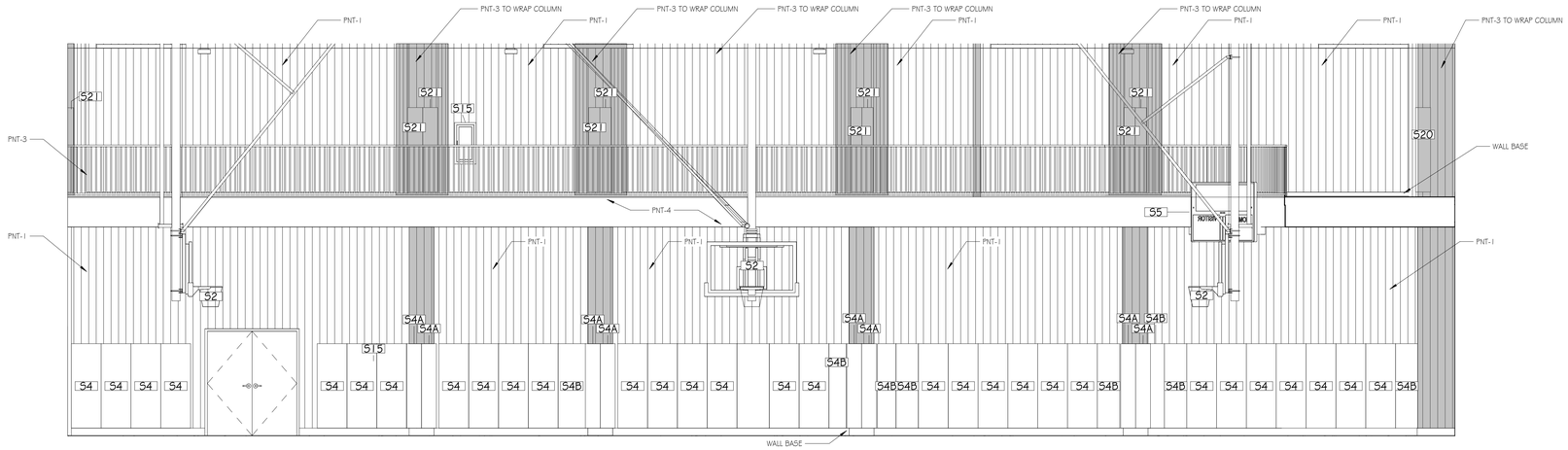
STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2.15.2024

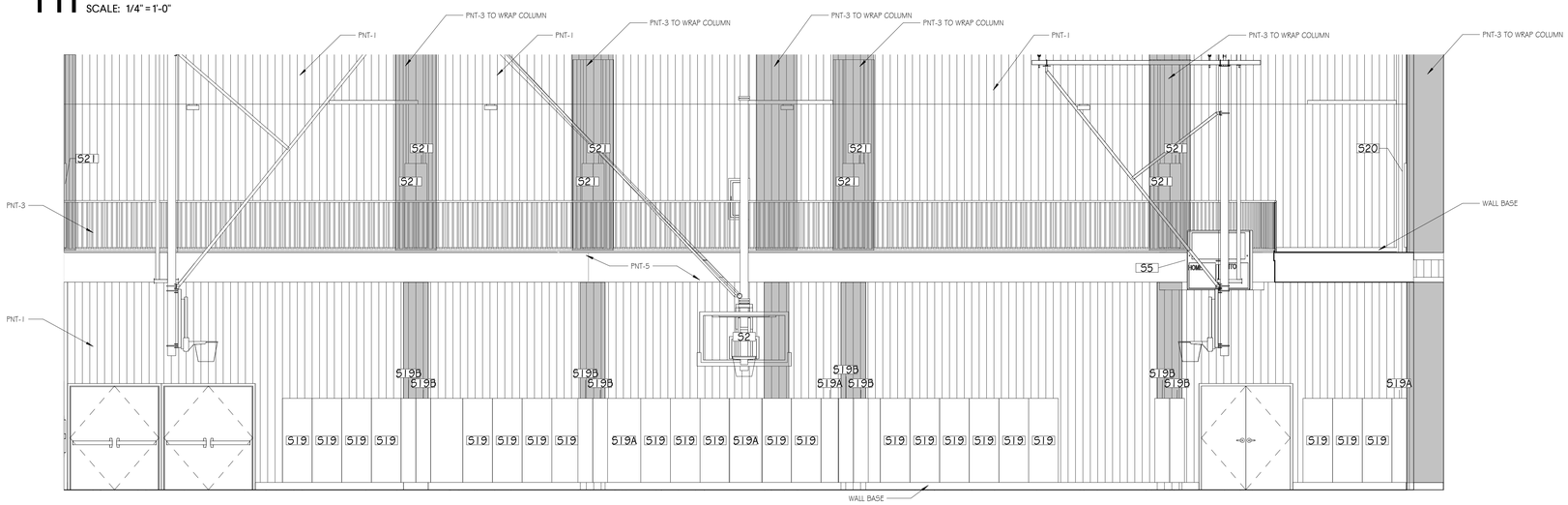
**INTERIOR ELEVATIONS**

# A7.04

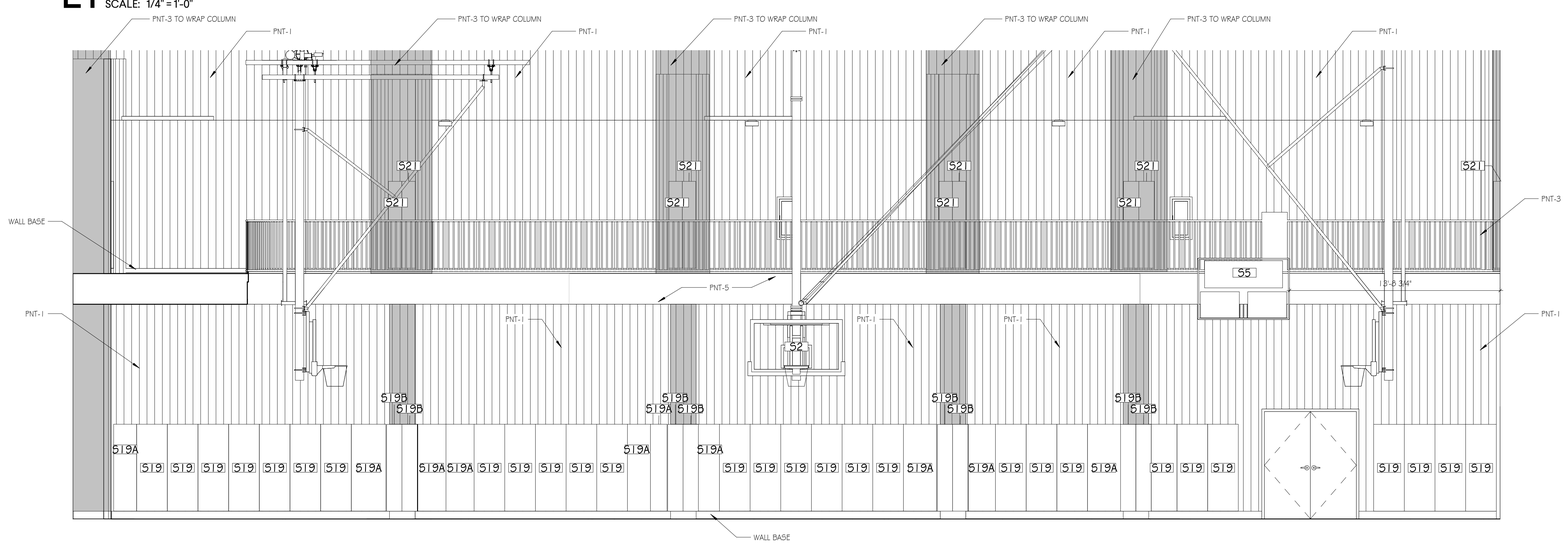
2/20/2024 12:46:07 PM




## H1 GYMNASIUM-B4
SCALE: 1/4" = 1'-0"




## E1 GYMNASIUM-A1
SCALE: 1/4" = 1'-0"




## A1 GYMNASIUM-A4
SCALE: 1/4" = 1'-0"

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| S2 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| S4 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S4A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S4B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S5 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| S6 | MOP SINK | CFCI |
| S7 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| S8 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| S9 | ICE MACHINE | OFCI |
| S10 | VENDING MACHINES | OFCI |
| S11 | MICROWAVE | OFOI |
| S12 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| S13 | COOLER | OFCI |
| S14 | FIRE EXTINGUISHER | CFCI |
| S15 | FIRE EXTINGUISHER CABINET | |
| S16 | STAINLESS STEEL SHELF | CFCI |
| S17 | WARMING CART | OFCI |
| S18 | COMMERCIAL GRADE FREEZER | OFCI |
| S19 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| S19A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| S19B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| S20 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| S21 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| S22 | MOP HOLDER & SHELF - 36"W | CFCI |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# A7.05

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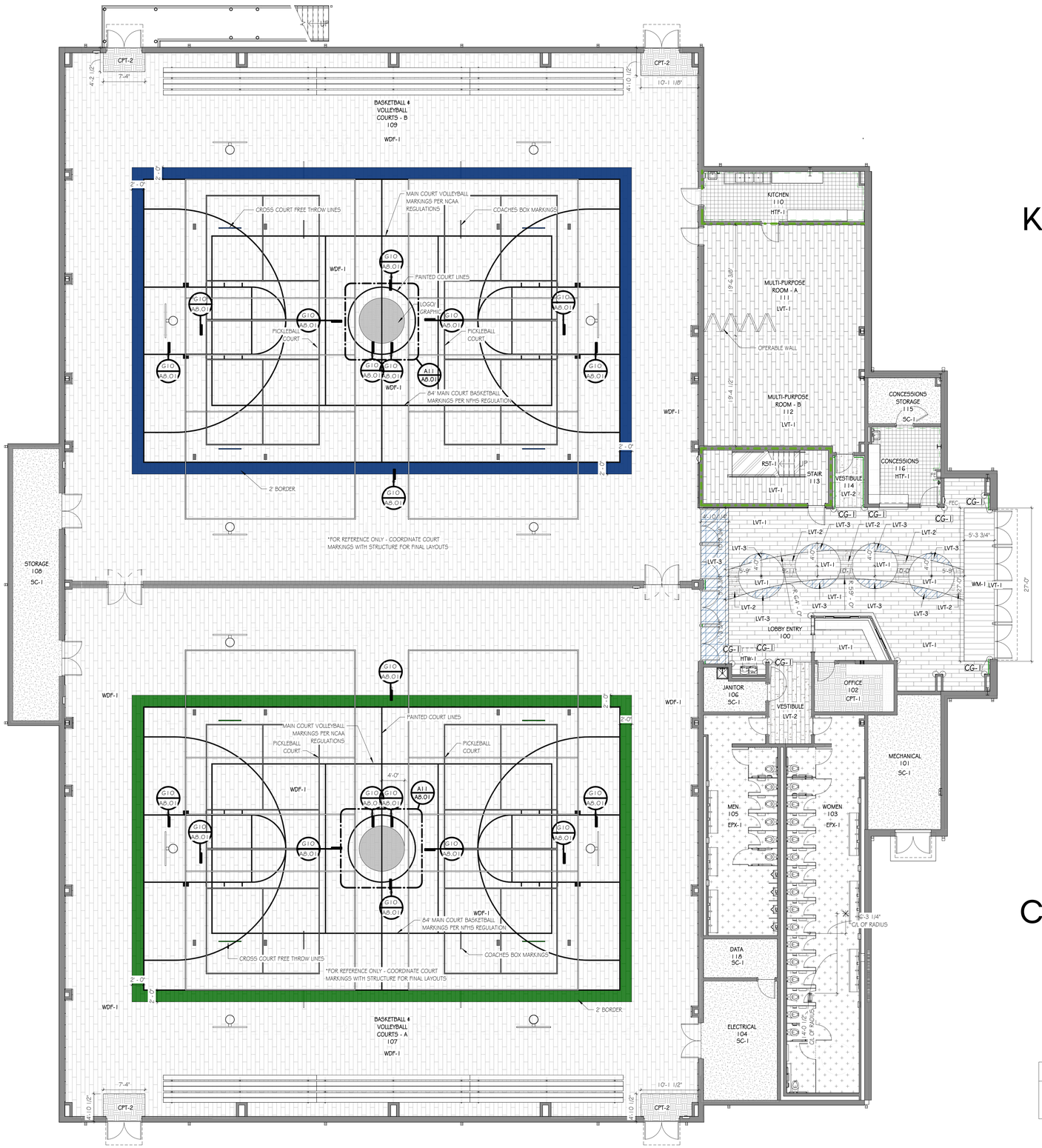
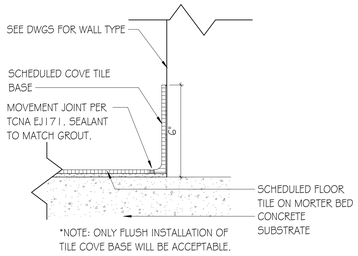
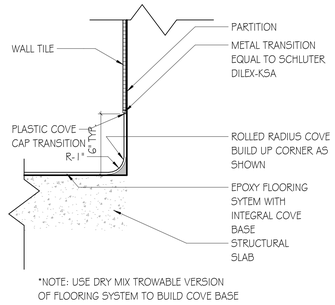


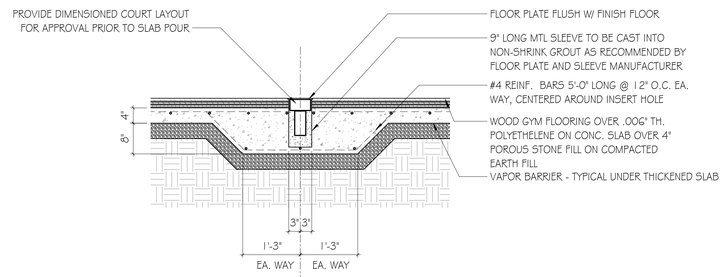

# A1 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"



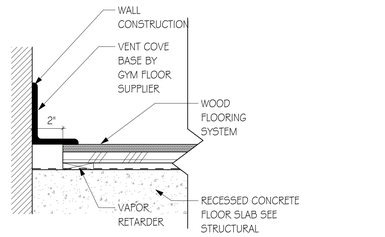

# K9 HTF-1 & HTB-1 DETAIL@ KITCHEN
SCALE: 3" = 1'-0"



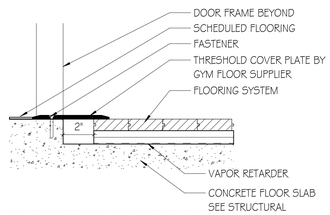

# K11 EPX PERIMETER DETAIL
SCALE: 3" = 1'-0"



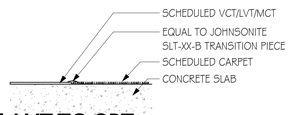

# G10 VOLLEYBALL POST FLOOR DETAIL
SCALE: 3/4" = 1'-0"




# E10 WOOD GYM FLOOR BASE
SCALE: 3" = 1'-0"




# C9 WDF TO LVT/SC/PC
SCALE: 3" = 1'-0"




# C11 LVT TO CPT
SCALE: 3" = 1'-0"

| WALL PROTECTION LEGEND |
|---|
| WP-1 |
| WP-2 |

# A11 GYM FLOOR LOGO
SCALE: 1/2" = 1'-0"

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Owens Cross Roads, Alabama
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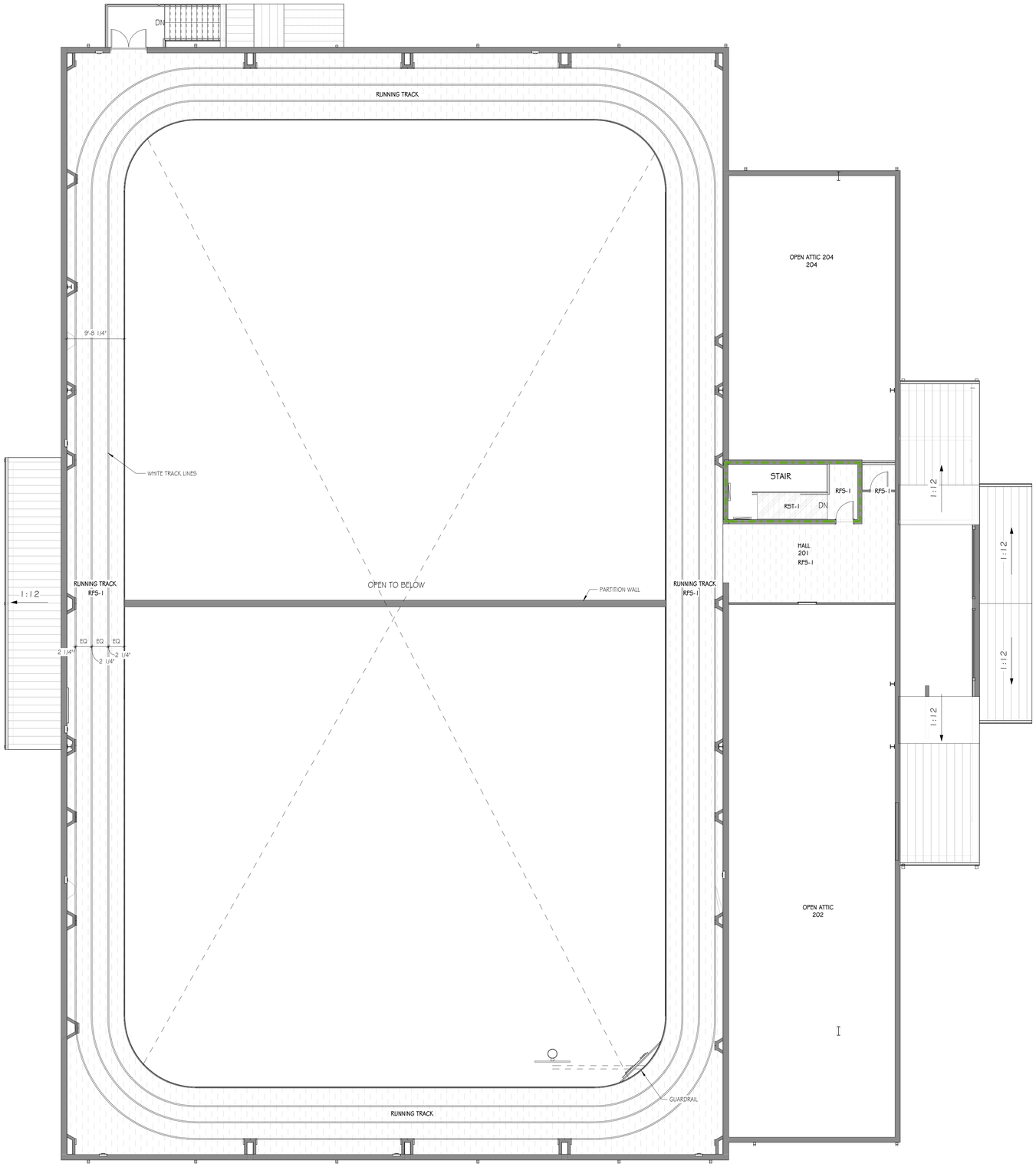
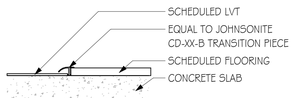
FIRST FLOOR - FINISH PLAN

A8.01

2/20/2024 12:46:20 PM




A1 **MEZZANINE FINISH PLAN**
SCALE: 1/8" = 1'-0"




A11 **RFS TO LVT**
SCALE: 3" = 1'-0"

2/20/2024 12:46:42 PM

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LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owen Lyons Roads
Lacey's
REGISTERED ARCHITECT
2-15-2024

**MEZZANINE FLOOR - FINISH PLAN**

A8.02

## ROOM FINISH SCHEDULE

| ROOM # | ROOM NAME | FLOOR | BASE | WALL | CASEWORK/MILLWORK CABINET | CASEWORK/MILLWORK COUNTERTOP | COMMENTS |
|---|---|---|---|---|---|---|---|
| 100 | LOBBY ENTRY | WM-1, LVT-1, LVT-2, LVT-3 | RB-1 | PNT-1 | PL-1, PL-2 | SS-2 | INCLUDES CHECK-IN DESK |
| 101 | MECHANICAL | SC-1 | RB-1 | PNT-1 | | | |
| 102 | OFFICE | CPT-1 | RB-1 | PNT-1 | | | |
| 103 | WOMEN | EPX-1 | EPB-1 | HTW-1, HTW-2 | | | |
| 104 | ELECTRICAL | SC-1 | RB-1 | PNT-1 | | | |
| 105 | MEN | EPX-1 | EPB-1 | HTW-1, HTW-2 | | | |
| 106 | JANITOR | SC-1 | RB-1 | PNT-1 | | | |
| 107 | BASKETBALL & VOLLEYBALL COURTS - A | WDF-1, CPT-2 | RB-1 | PNT-1, PNT-3, PNT-5 | | | |
| 108 | STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| 109 | BASKETBALL & VOLLEYBALL COURTS - B | WDF-1, CPT-2 | RB-1 | PNT-1, PNT-3, PNT-4 | | | |
| 110 | KITCHEN | HTF-1 | HTB-1 | PNT-1, WP-1 | PL-1 | SS-1 | |
| 111 | MULTI-PURPOSE ROOM - A | LVT-1 | RB-1 | PNT-1 | | | |
| 112 | MULTI-PURPOSE ROOM - B | LVT-1 | RB-1 | PNT-1 | | | |
| 113 | STAIR | LVT-1, RST-1 | RB-1 | PNT-1 | | | |
| 114 | VESTIBULE | LVT-1 | RB-1 | PNT-1 | | | |
| 115 | CONCESSIONS STORAGE | SC-1 | RB-1 | PNT-1 | | | |
| 116 | CONCESSIONS | HTF-1 | HTB-1 | PNT-1, WP-1 | PL-1 | SS-1 | |
| 118 | DATA | SC-1 | RB-1 | PNT-1 | | | |
| 200 | STAIR | RST-1, RF5-1 | RB-1 | PNT-1 | | | |
| 201 | HALL | RF5-1 | RB-1 | PNT-1 | | | |
| 203 | RUNNING TRACK | RF5-1 | RB-1 | PNT-1, PNT-3 | | | |

## FINISH NOTES

FLOORS:

- REFER TO FLOOR FINISH PLANS FOR FLOOR PATTERN. CONTRACTOR MUST NOTIFY INTERIOR DESIGNER BEFORE INSTALLATION OF FLOORING TO REVIEW DESIGN INTENT OF FLOOR PATTERN PLAN

- ALL FLOORING TRANSITIONS INCLUDING TRANSITIONS TO SIMILAR MATERIAL OR REDUCER STRIPS AND OTHER THRESHOLDS TO DISSIMILAR MATERIAL SHALL BE LOCATED AT THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. COLORS SHALL BE SELECTED DURING SUBMITTAL REVIEW. REFER TO DETAILS FOR TRANSITIONS BETWEEN FLOORING MATERIALS. CONTRACTOR TO PROVIDE TRANSITION SIZES APPROPRIATE FOR THICKNESS

- AVOID ALL FLOORING MATERIAL SLIVER CUTS LESS THAN 4" WIDE @ WALL PERIMETERS & MATERIAL TRANSITIONS. CONTACT DESIGNER IF JOBSITE CONDITIONS DIFFER.

- INSTALL FLOORING CONTINUOUS UNDER ALL CASEWORK, MILLWORK, EQUIPMENT, & FURNITURE

- ALIGN VERTICAL GROUT JOINTS IN TILE BASE WITH THOSE IN THE FLOOR TILE UNLESS NOTED OTHERWISE

WALLS:

- REFER TO FINISH PLANS & ELEVATIONS FOR LOCATION OF ACCENT PAINT COLORS

- ALL HOLLOW METAL DOOR & WINDOW FRAMES TO BE PAINTED (PNT-3) UNLESS OTHERWISE NOTED

- ALL ACCESS PANELS AND MISCELLANEOUS METAL (RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC.) LOCATED ON WALL SURFACES OR CEILING SURFACES TO BE PAINTED WALL OR CEILING COLOR U.N.O.

- WALL BASE TO BE INSTALLED ON ALL WALLS, MILLWORK, AND CASEWORK U.N.O.

- INSTALL FINISH STRIP EQUAL TO SCHLUTER "JOLLY" AT ALL EXPOSED TILE EDGES & CORNERS

MILLWORK / CASEWORK:

- INSTALL 3MM EDGEBAND ON ALL PLASTIC LAMINATE COUNTERTOPS AND CABINETS.

- GROMMET LOCATIONS TO BE COORDINATED WITH OWNER

- FIELD VERIFY ALL DIMENSIONS FOR CASEWORK & MILLWORK PRIOR TO FABRICATION & INSTALLATION

- ALL EXPOSED ENDS AND EXPOSED INTERIORS OF CASEWORK/ MILLWORK TO RECEIVE MATCHING LAMINATES

MISC:

- DO NOT PAINT DOOR LABELS AT RATED DOORS OR FRAMES.

- PROVIDE BLOCKING FOR ALL GRAB BARS AND TOILET ACCESSORIES

- REFER TO RCP FOR ACCENT PAINT COLOR LOCATIONS IN CEILING - WHERE CEILINGS ARE CALLED OUT TO BE PAINTED, BOTH CEILING AND SOFFIT/BULKHEAD WALLS ARE TO BE PAINTED ACCENT COLOR

- NON ADA TOILET FIXTURES SHALL BE CENTERED IN STALL

- CAULK ALL DOOR FRAMES, MILLWORK, AND VIEW WINDOW FRAMES AFTER WALLCOVERING INSTALLATION IS COMPLETE. COLOR OF CAULK TO MATCH ADJACENT FINISH.

- GC TO PROVIDE SPECIFIED EXPANSION JOINT COVER AT ALL EXPOSED FINISH FLOOR, CEILING, AND WALL LOCATIONS

- ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHALL CHECK AVAILABILITY OF QUANTITIES AND DELIVERY DATES UPON NOTICE TO PROCEED. NO CONSIDERATION WILL BE GIVEN FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

RCP NOTES:

- ALL SPRINKLER HEADS IN FINISHED CEILINGS ALL SHALL BE CENTERED IN CEILING TILE. SPRINKLER HEADS SHALL NOT BE PAINTED.

- INTERIOR CEILING HEIGHTS SHALL BE AS INDICATED ON THE REFLECTED CEILING PLANS.

- WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR, BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.

- IN EXPOSED CEILINGS (EXP-2) ALL EXPOSED ELEMENTS NOT LIMITED TO TRUSS SYSTEM, ACOUSTICAL DECK, DUCTWORK, CONDUIT, AND PIPING TO BE PAINTED

- ALL GYP CEILINGS TO BE PAINTED (PNT-2) UNLESS OTHERWISE NOTED IN RCP. BOTH CEILING AND SOFFIT /BULKHEAD SURFACES ARE TO BE PAINTED THE SAME COLOR.

- DO NOT INSTALL CEILING TILE LESS THAN 6" IN ANY DIRECTION - WHEN POSSIBLE CENTER TILE IN ROOM.

## SPECIALTY EQUIPMENT SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| 52 | CEILING SUSPENDED, SIDE-FOLD, REAR OR FRONT-BRACED BASKETBALL GOAL | CFCI |
| 54 | BLUE BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| 54A | BLUE BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| 54B | BLUE BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| 55 | SCOREBOARD - ATHLETIC - WALL MOUNTED - BY OWNER. WIRELESS CONTROLLED, BUT HARDWIRED FOR POWER. | OFOI |
| 56 | MOP SINK | CFCI |
| 57 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 36"W X 18"D X 84"H | CFCI |
| 58 | METAL INDUSTRIAL SHELVING - 4 POST WITH 6 SHELVES - 48"W X 18"D X 84"H | CFCI |
| 59 | ICE MACHINE | OFCI |
| 510 | VENDING MACHINES | OFCI |
| 511 | MICROWAVE | OFOI |
| 512 | REFRIGERATOR/FREEZER - SIDE BY SIDE | OFCI |
| 513 | COOLER | OFCI |
| 514 | FIRE EXTINGUISHER | CFCI |
| 515 | FIRE EXTINGUISHER CABINET | |
| 516 | STAINLESS STEEL SHELF | CFCI |
| 517 | WARMING CART | OFCI |
| 518 | COMMERCIAL GRADE FREEZER | OFCI |
| 519 | GREEN BASKETBALL WALL SAFETY PADS 24" X 72" | CFCI |
| 519A | GREEN BASKETBALL WALL SAFETY PADS CUSTOM SIZE FIELD VERIFY | CFCI |
| 519B | GREEN BASKETBALL WALL SAFETY CORNER PADS 12" X 72" | CFCI |
| 520 | GRAY BASKETBALL WALL SAFETY CORNER PADS 12"X72" | CFCI |
| 521 | GRAY BASKETBALL WALL SAFETY CUSTOM CORNER PADS FIELD VERIFY | CFCI |
| 522 | MOP HOLDER & SHELF - 36"W | CFCI |

## TOILET ACCESSORIES SCHEDULE

| TAG | DESCRIPTION | COMMENTS |
|---|---|---|
| TA01 | TOILET TISSUE DISP - DBL. STD. ROLL W/SHELF | CFCI |
| TA03 | PAPER TOWEL DISPENSER (FOLDED, HIGH-CAPACITY) | CFCI |
| TA16 | COMBO TOWEL DISPENSER/WASTE RECEPTACLE (RECESSED, FOLDED) | CFCI |
| TA18 | STERIS SDS SOAP DISPENSER, SURFACE-MOUNT, MANUAL (LIQUID TYPE) | CFCI |
| TA23 | 18" VERTICAL GRAB BAR | CFCI |
| TA24 | 36" HORIZONTAL GRAB BAR | CFCI |
| TA25 | 42" HORIZONTAL GRAB BAR | CFCI |
| TA30 | MIRROR, CHANNEL FRAMED WITHOUT SHELF (18 x 36 INCHES) | CFCI |
| TA36 | SANITARY NAPKIN DISPOSAL - SURF-MT, BOTTOM HINGED | CFCI |
| TA85 | DIAPER CHANGING STATION, SURFACE-MOUNT | CFCI |

## CASEWORK SCHEDULE

NOTE: CABINET DESIGN SERIES (CDS) NUMBERS BASED ON AWI STANDARDS EDITION 2

| CDS # | CASEWORK TYPE | DESCRIPTION |
|---|---|---|
| 100 | BASE CAB | OPEN W/ ADJUSTABLE SHELVES |
| 222 | BASE CAB | DBL DOORS / DBL DRWRS |
| 230 | BASE CAB | BASE CABINET WITH 3 EQUAL SIZE DRAWERS |
| 424 | TALL STG CAB | 4 DOORS |

## FINISH LEGEND

### FLOOR

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| CPT-1 | CARPET | MANUFACTURER: SHAW<br>STYLE NAME: ENCLAVE TILE<br>COLOR: RESERVOIR 71485<br>SIZE: 18X36<br>INSTALLATION: ASHLAR<br>LOCATION: OFFICE |
| CPT-2 | WALK-OFF CARPET | MANUFACTURER: BENTLEY<br>STYLE NAME: ROUGH IDEA SHEAR<br>COLOR: DESIGN 800116<br>SIZE: 24X24<br>INSTALLATION: MONOLITHIC<br>LOCATION: COURTS |
| HTF-1 | HARD TILE FLOOR | MANUFACTURER: CROSSVILLE TILE<br>STYLE NAME: CROSS-TREAD<br>COLOR: GREY MINGLE<br>SIZE: 8" x 8"<br>INSTALLATION: STACK BOND<br>LOCATION: KITCHEN & CONCESSION |
| WDF-1 | WOOD FLOORING | MANUFACTURER: ROBBINS<br>STYLE NAME: BIO CUSHION CLASSIC PLANK: 25/32" CONTINUOUS STRIP XL FINGER JOINT NORTHERN HARD MAPLE - CLEAR FINISH<br>GAME LINE PAINT: AS RECOMMENDED BY MFG<br>COLORS: TBD<br>LOCATION: GYM A, GYM B, SEE DRAWINGS |
| EF-1 | EPOXY FLAKE | MANUFACTURER: TORGINOL<br>STYLE NAME: COLOR FLAKES 1/4"<br>COLOR: FB-807 TIDAL WAVE<br>LOCATION: RESTROOMS |
| SC-1 | SEALED CONCRETE | CLEAR SEALED ON CLEANED AND GROUND FACED STRUCTURAL CONCRETE PROVIDED BY STAINED CONCRETE SUB-CONTRACTOR, TYP<br>LOCATION: WHERE NOTED |
| RST-1 | RUBBER STAIR TREAD | MANUFACTURER: JOHNSONITE<br>STYLE NAME: HAMMERED TREAD/RISER COMBO #VIHTR<br>COLOR: HNSP-LC4 MOUNTAINEER WG<br>SIZE: FIELD MEASURE<br>LOCATION: INTERIOR EGRESS STAIRS. LANDINGS: MATCH RUBBER TILE TO TREAD/RISER AND SAME DYE LOT |
| RF5-1 | RESILIENT FLOOR SYSTEM | MANUFACTURER: ROBBINS<br>STYLE NAME: PULASTIC CLASSIC 110 SEAMLESS FLOOR SYSTEM<br>COLOR: 506 DUSTY GREY<br>GAMELINE PAINT COLOR: WHITE<br>LOCATION: 2ND LEVEL TRACK AND WHERE NOTED, SEE DRAWINGS |
| WM-1 | WALK OFF MAT | MANUFACTURER: CS GROUP<br>STYLE NAME: PEDITRED G4<br>COLOR: 7325 WROUGHT IRON<br>FRAME: LEVEL BASE FRAME<br>RECESS: 3/4"<br>LOCATION: MAIN ENTRY |
| LVT-1 | LUXURY VINYL TILE | MANUFACTURER: SHAW<br>STYLE NAME: INLET II<br>COLOR: VALLEY 72103<br>SIZE: 9" X 48"<br>LOCATION: MAIN ENTRY & MULTI-PURPOSE |
| LVT-2 | LUXERY VINYL TILE | MANUFACTURER: SHAW<br>STYLE NAME: COMMINGLE<br>COLOR: 50105 CONCRETE<br>SIZE: 9" X 48"<br>LOCATION: MAIN ENTRY |
| LVT-3 | LUXERY VINYL TILE | MANUFACTURER: SHAW<br>STYLE NAME: TYPE, DIALOGUE 4142V<br>COLOR: 42595 ENGAGE<br>SIZE: 24" X 24"<br>LOCATION: MAIN ENTRY |

### BASE

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| RB-1 | RUBBER BASE | MANUFACTURER: ROPPE<br>STYLE NAME: 4" RUBBER COVE BASE<br>COLOR: 669 BATTLESHIP<br>LOCATION: TYPICAL |
| HTB-1 | HARD TILE BASE | MANUFACTURER: CROSSVILLE TILE<br>STYLE NAME: CROSS-TREAD<br>COLOR: GREY MINGLE<br>SIZE: 6" x 8" COVE BASE<br>INSTALLATION:<br>LOCATION: KITCHEN & CONCESSIONS |
| EPB-1 | EPOXY BASE | MANUFACTURER: MATCH EF-1<br>STYLE NAME: MATCH EF-1<br>COLOR: MATCH EF-1<br>SIZE: 6" H<br>INSTALLATION: INTEGRAL WITH FLOOR, SEE FLOORING DETAILS<br>LOCATION: TOILETS |
| VB-1 | VENTED BASE | MANUFACTURER: ROBBINS SPORTS SURFACE<br>STYLE: VENTILATED COVE BASE<br>COLOR: BLACK<br>SIZE: 3" X 4" BASE<br>NOTE: PROVIDE MATCHING OUTSIDE CORNERS<br>LOCATION: BASKETBALL & VOLLEYBALL COURTS |

### WALL

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| PNT-1 | PAINT | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: SW 7016 MINDFUL GRAY<br>LOCATION: GENERAL WALL |
| PNT-2 | PAINT | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: PURE WHITE #SW 7005<br>LOCATION: CEILING PAINT |
| PNT-3 | PAINT | MANUFACTURER:<br>COLOR: SW 7067 CITYSCAPE<br>LOCATION: TRIM / HOLLOW METAL FRAMES |
| PNT-4 | PAINT | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: SW 7605 GALE FORCE<br>LOCATION: ACCENT - BASKETBALL & VOLLEYBALL COURTS - B 109 |
| PNT-5 | PAINT | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: SW 6734 ESPALIER<br>LOCATION: ACCENT - BASKETBALL & VOLLEYBALL COURTS A 107 |
| PNT-6 | PAINT | MANUFACTURER: SHERWIN WILLIAMS<br>COLOR: SW 7016 MINDFUL GRAY<br>LOCATION: EPOXY PAINT FOR WET AREAS & KITCHEN AND CONCESSIONS |
| HTW-1 | HARD TILE WALL | MANUFACTURER: DALTILE<br>STYLE NAME: MULTITUDE<br>COLOR: NOSTALGIC BLUE RECTANGLE<br>SIZE: 12" X 24"<br>LOCATION: RESTROOMS |
| HTW-2 | HARD TILE WALL | MANUFACTURER: DALTILE<br>STYLE NAME: MULTITUDE<br>COLOR: NOSTALGIC BLUE RECTANGLE WAVE<br>SIZE: 12" X 24"<br>LOCATION: RESTOOMS |
| WP-1 | WALL PROTECTION | MANUFACTURER: CS ACROVYN<br>STYLE NAME: STANDARD RIGID SHEET<br>COLOR: 209 SLATE, IRISH LINEN TEXTURE<br>THICKNESS: .040"<br>SIZE: 4' X 10'<br>LOCATION: WHERE NOTED |
| WP-2 | WALL PROTECTION | MANUFACTURER: INPRO CORP<br>STYLE NAME: PALLADIUM RIGID WALL<br>COLOR: PEPPERDUST 0119<br>THICKNESS: .040"<br>SIZE: 48" HIGH<br>LOCATION: WHERE NOTED<br>NOTE: PROVIDE TOP TRIM CAP & DIVIDER BARS WHERE SEAMS OCCUR |
| CG-1 | CORNER GUARDS | MANUFACTURER: INPRO CORP<br>STYLE NAME: 150 CORNER GUARD<br>COLOR: PEPPERDUST 0119<br>INSTALL ABOVE WALL BASE<br>SIZE: 3" WINGS TO 4'-0" AFF<br>LOCATION: WHERE NOTED |

### MISC

| NUMBER | TYPE | DETAIL DESCRIPTION |
|---|---|---|
| SS-1 | SOLID SURFACE COUNTERTOP MATERIAL | MANUFACTURER: CORIAN<br>STYLE: DEEP CLOUD<br>LOCATION: GENERAL COUNTERTOPS |
| SS-2 | SOLID SURFACE COUNTERTOP MATERIAL | MANUFACTURER: CORIAN<br>STYLE: LAGUNA TERRAZZO<br>LOCATION: RECEPTION DESK TRANSACTION & WORKSURFACE |
| PL-1 | PLASTIC LAMINATE | MANUFACTURER: WILSONART<br>STYLE/ COLOR: RALEIGH WALNUT 17015K-67<br>LOCATION: RECEPTION DESK & WHERE SCHEDULED |
| PL-2 | PLASTIC LAMINATE | MANUFACTURER: LAMINART<br>STYLE/ COLOR: 2466 T / MIDNIGHT BLUE TEXTURED FINISH<br>LOCATION: RECEPTION DESK |
| TS-1 | TACKABLE SURFACE | MANUFACTURER: CARNEGIE XOREL<br>STYLE/ COLOR: 6557W80 FLUX<br>LOCATION: RECEPTION |


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Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2.15.24 |

DRAWN BY: Author
CHECKED BY: Checker

MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
2-15-2024

FINISH SCHEDULE AND LEGEND

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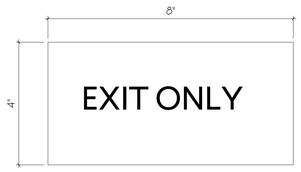
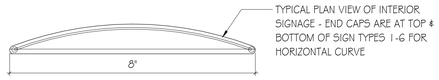
2/20/2024 12:46:45 PM

## SIGNAGE SCHEDULE

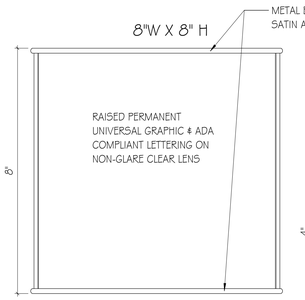
| Room Number | Room Location | Sign Type | Signage Text | Signage Comments |
|---|---|---|---|---|
| 100 | LOBBY ENTRY | - | | |
| 101 | MECHANICAL | 2A | | |
| 102 | OFFICE | 1A | | |
| 103 | WOMEN | 3A | | |
| 104 | ELECTRICAL | 2A | | |
| 105 | MEN | 3A | | |
| 106 | JANITOR | 2A | | |
| 107 | BASKETBALL & VOLLEYBALL COURTS - A | EXT | | |
| 108 | STORAGE | 2A | | |
| 109 | BASKETBALL & VOLLEYBALL COURTS - B | EXT | | |
| 110 | KITCHEN | 1A | | |
| 111 | MULTI-PURPOSE ROOM - A | 1A | | |
| 112 | MULTI-PURPOSE ROOM - B | 1A | | |
| 113 | STAIR | 6A | | |
| 114 | VESTIBULE | - | | |
| 115 | CONCESSIONS STORAGE | - | | |
| 116 | CONCESSIONS | 1A | | |
| 118 | DATA | 2A | | |
| 120 | OPEN BELOW | - | | |
| 200 | STAIR | 6A | | |
| 201 | HALL | - | | |
| 202 | OPEN ATTIC | - | | |
| 203 | RUNNING TRACK | 1A | | |
| 204 | OPEN ATTIC 204 | - | | |



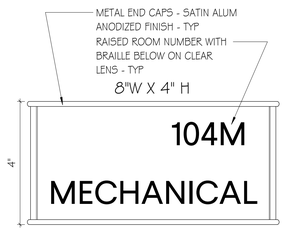

SIGN TYPE: EXT
QUANTITY: AT ALL EXIT DOORS
(EXCEPTION - MAIN ENTRANCE)
FLAT PANEL: EXTERIOR GRADE-SIGN TO BE MECHANICALLY FASTENED - LETTERS TO BE RAISED & PERMANENTLY AFFIXED



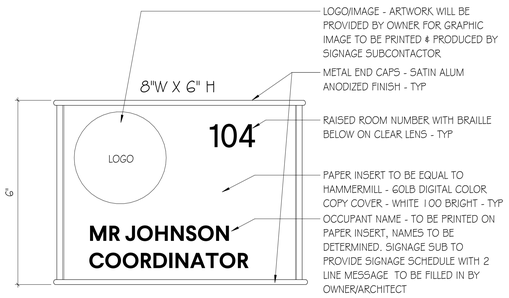

SIGN TYPE: PLAN VIEW




SIGN TYPE: 3A, 5A &6A
QUANTITY: SEE DRAWINGS
LOCATIONS: STAIRS (6A), TOILETS (3A), ELEVATORS (5A)




SIGN TYPE: 2A
QUANTITY: SEE DRAWINGS
LOCATIONS: EVERY DOOR TO SERVICE ROOMS, STORAGE ROOMS, AND WHERE NOTED ON DWGS




SIGN TYPE: 1A
QUANTITY: SEE DRAWINGS
LOCATIONS: AT EVERY CLASSROOM DOOR, OFFICES, CONFERENCE ROOMS, STAFF ROOMS, AND WHERE NOTED ON DWGS

**ROOM SIGNAGE: MODULAR CURVED FRAME TECHNOLOGY**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**Morgan County, Alabama**

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STATE of ALABAMA
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REGISTERED ARCHITECT
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**SIGNAGE**

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# GENERAL NOTES

## 1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION.

B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)

C. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

D. MASONRY:
SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16)

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 602-16)

NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY"

E. STEEL DECK:
STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS.

F. COLD-FORMED STEEL FRAMING:
AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI S100-16(2020) W/s2-20)

OTHER APPLICABLE AISI STANDARDS, AMERICAN IRON AND STEEL INSTITUTE, LATEST EDITION

1.2 DESIGN GRAVITY LOADS (PSF):

A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B. FLOOR LIVE LOADS:
NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.

LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.12 HAVE BEEN TAKEN WHERE PERMITTED.

FLOOR ---------------------------------------------------100
STORAGE--------------------------------------------------125
CORRIDORS------------------------------------------------100
MECHANICAL ROOM------------------------------------------150
STAIRS & EXITWAYS----------------------------------------100

C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14

ROOF-----------------------------------------------------20

D. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)------------------------------------10.0
IMPORTANCE FACTOR (I)------------------------------------1.1
EXPOSURE FACTOR (Ce)-------------------------------------1.0
THERMAL FACTOR (Ct)--------------------------------------1.0

1.3 DESIGN LATERAL LOADS:

A. WIND LOADS:
BASIC WIND SPEED (3-SECOND GUST)----------------------112MPH
WIND IMPORTANCE FACTOR (I)------------------------------1.0
WIND EXPOSURE CATEGORY----------------------------------C
INTERNAL PRESSURE COEFFICIENTS-------------------- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS---------------------------------------------0.256
S1---------------------------------------------0.111
SITE CLASS---------------------------------------------D
SPECTRAL RESPONSE COEFFICIENTS:
SDS--------------------------------------------0.272
SD1--------------------------------------------0.177
SEISMIC DESIGN CATEGORY-------------------------------C

THE FOLLOWING INFORMATION SHALL BE PROVIDED BY THE METAL BUILDING MANUFACTURER:

BASIC SEISMIC FORCE RESISTING SYSTEM
DESIGN BASE SHEAR
SEISMIC RESPONSE COEFFICIENT, Cs
RESPONSE MODIFICATION FACTOR, R
ANALYSIS PROCEDURE
IMPORTANCE FACTOR, I

## 2.0 GENERAL CONDITIONS

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2.3 SUBMIT ONLY THREE COPIES OF SHOP DRAWINGS TO STRUCTURAL DESIGN GROUP UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. TWO PRINTS WILL BE RETURNED. ALL ADDITIONAL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER THE PRINTS ARE RETURNED. IF ADDITIONAL SETS ARE SUBMITTED, THEY WILL BE RETURNED UNMARKED.

2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION, AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS.

2.10 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL.

2.11 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

2.12 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

2.13 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS, OR ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. INDICATING SUCH ITEMS ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL OR COVER SHEET IN ACCORDANCE WITH THESE GENERAL NOTES AND THE SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED. IF A QUESTION, CLARIFICATION, MODIFICATION, OR REQUEST FOR INFORMATION IS MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.

## 3.0 FOUNDATIONS

3.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE GENERAL CONTRACTOR, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE AND ASSUMED SEISMIC SITE CLASS NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.

3.2 ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF):
COLUMN FOOTINGS----------------------------------------2000
CONTINUOUS WALL FOOTINGS-------------------------------2000

3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO INSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

3.4 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE

3.5 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

3.6 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

3.7 VAPOR RETARDER BENEATH SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR 15.

3.8 PROVIDE A MINIMUM OF 4" OF #57 STONE GRANULAR FILL SUPPORTING SLABS ON GRADE. THE BUILDING FLOOR SLAB SUBGRADE SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. THE SUBGRADE SHALL BE INSTALLED TO A MINIMUM MODULUS OF SUBGRADE REACTION OF 100PSI. THE GEOTECHNICAL ENGINEER AND CONTRACTOR SHALL PERFORM EARTHWORK AS REQUIRED TO MEET THIS SPECIFICATION.

## 4.0 CONCRETE

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

4.2 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

| STRENGTH | TYPE | MAX W/C | AIR | SLUMP | USE |
|---|---|---|---|---|---|
| 3000 | NORMAL WT. | 0.57 | ---- | 3" TO 5" | FOOTINGS |
| 3500 | NORMAL WT. | 0.50 | ---- | 3" TO 5" | SLABS ON GRADE |
| 3500 | LIGHT WT. | 0.50 | ---- | 3" TO 5" | SLABS ON METAL DECK |
| 4000 | NORMAL WT. | 0.45 | 4-6% | 3" TO 5" | UNLESS NOTED |

A. CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 WATERSTOPS: FLEXIBLE PVC WATERSTOPS, CE CRD-C 572, UNLESS NOTED OTHERWISE, WITH FACTORY-INSTALLED METAL EYELETS, FOR EMBEDDING IN CONCRETE TO PREVENT PASSAGE OF FLUIDS THROUGH JOINTS. FACTORY FABRICATE CORNERS, INTERSECTIONS, AND DIRECTIONAL CHANGES. ACCEPTABLE MANUFACTURER IS THE GREENSTREAK GROUP, INC, 800-325-9504, OR EQUAL. PROFILE SHALL BE FLAT, DUMBBELL WITH CENTER BULB WITH DIMENSIONS OF 6 INCHES BY 3/8 INCH THICK.

A. FLEXIBLE WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED TO FORM A CONTINUOUS DIAPHRAGM. INSTALL IN LONGEST LENGTHS PRACTICABLE. SUPPORT AND PROTECT EXPOSED WATERSTOPS DURING PROGRESS OF THE WORK.

4.5 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.6 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

4.7 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.8 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.10 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS, OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.11 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS-------------------------2" TOP & 3" BOTTOM & SIDES
PEDESTALS------------------------------1-1/2" CLEAR OF TIES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH-------------3/4"
SLAB FACES EXPOSED TO WEATHER
A. #5 AND LESS-----------------------------------1-1/2"
B. #6 AND GREATER----------------------------------2"

NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.

4.12 PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING.

4.13 WELDED WIRE REINFORCEMENT (WWR): ASTM A185. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4.14 EARTH SUPPORTED SLABS:

4" THICK (UNLESS NOTED), REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

4.15 CAST IN PLACE ALL SLEEVES AND INSERTS.

## 5.0 STRUCTURAL STEEL

5.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

5.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

5.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; ASTM A36 FOR CHANNELS, STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES AND STEEL ANGLES.

5.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B.

5.5 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.

5.6 THREADED AND PLAIN STEEL RODS: ASTM A36

5.7 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1, UNLESS OTHERWISE INDICATED.

5.8 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

5.9 CONNECTIONS:

A. BEARING TYPE A325-N IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER.

B. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS.

C. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.

D. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.

2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.

E. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

5.10 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED, PER ASTM A 123/A 123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 05120 SPECIFICATION FOR PAINT REQUIREMENTS FOR STEEL THAT IS GALVANIZED AND PAINTED.

5.11 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS, EXCEPT WHERE FABRICATED OF APPROVED CORROSION-RESISTANT STEEL OR OF STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

5.12 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS.

A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE.
B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH, WHICHEVER IS LESS.
C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."

5.13 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.

5.14 PROVIDE ¾" THICK CLOSURE PLATES ON THE ENDS OF TUBE STEEL BEAMS. SHOP WELD TO BEAM WITH ¼" PARTIAL PENETRATION WELDS ALL AROUND.

## 6.0 STEEL DECK

6.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.

6.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.

6.3 COMPOSITE FLOOR DECK:

A. 3" THICK CONCRETE SLAB ON STEEL COMPOSITE FLOOR DECK. DECK SHALL CONFORM TO 3" VLI, 18 GAGE, GALVANIZED, AS MANUFACTURED BY VULCRAFT OR APPROVED EQUAL.

B. REINFORCE SLAB WITH 6X6 W1.4/W1.4 WWR SUPPORTED BY "UPPER CONTINUOUS HIGH CHAIRS" OVER BEAMS AND GIRDERS TO MAINTAIN 1" COVERAGE OF WWR. AT BEAMS AND GIRDERS ADDITIONAL REBAR IS REQUIRED. SEE TYPICAL DETAIL FOR MORE INFORMATION.

C. DECK SHALL BE WELDED TO SUPPORTS WITH A 5/8" DIAMETER PUDDLE WELD OR EQUIVALENT AT ALL EDGE RIBS PLUS A SUFFICIENT NUMBER OF INTERIOR RIBS TO PROVIDE A MAXIMUM AVERAGE SPACING OF 12 INCHES ON CENTER. THE MAXIMUM SPACING BETWEEN ADJACENT POINTS OF ATTACHMENT SHALL NOT EXCEED 18 INCHES.

D. IF STUDS ARE BEING APPLIED THROUGH THE DECK ONTO STRUCTURAL STEEL, THE STUD WELDS CAN BE USED TO REPLACE THE PUDDLE WELDS ON A ONE-FOR-ONE BASIS.

E. DECK UNITS WITH SPANS GREATER THAN FIVE FEET SHALL HAVE SIDE LAPS AND PERIMETER EDGES FASTENED AT MIDSPAN OR 36" O.C. - WHICHEVER IS SMALLER.

F. IF A BENT PLATE OR EDGE ANGLE IS PROVIDED ON TOP OF THE SUPPORTING BEAM, IT IS NOT ACCEPTABLE TO WELD HEADED STUDS TO THE BENT PLATE OR EDGE ANGLE, STUDS MUST BE WELDED DIRECTLY TO THE SUPPORTING BEAM FLANGE.

6.4 SHEAR CONNECTORS: 3/4" DIAMETER, 4 1/2 LONG (AFTER WELDING), HEADED STUDS ASTM A108. SPACE UNIFORMLY ALONG MEMBER WHERE SINGLE VALUE IS GIVEN. SPACE UNIFORMLY ALONG PART OF MEMBER BETWEEN SUPPORTED BEAMS, OR COLUMN AND BEAM, WHERE MORE THAN ONE VALUE IS GIVEN. MAXIMUM CONNECTOR SPACING IS 24". MINIMUM SPACING OF SHEAR CONNECTORS SHALL BE 3" PERPENDICULAR TO BEAM AND 4-1/2" PARALLEL TO BEAM.

6.5 WELDED CONNECTIONS: E60XX ELECTRODES: WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

6.6 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE OR SLAB ON METAL DECK WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP. CONDUIT SHALL NOT BE PLACED IN SLABS REQUIRING A FIRE RESISTANCE RATING OR UL RATING.

6.7 COLD-FORMED STEEL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, PIPING OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

## 7.0 PREFABRICATED METAL BUILDING

7.1 METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF MBMA (METAL BUILDING MANUFACTURERS ASSOCIATION) AND HAS MET THE REQUIREMENTS OF AC472, IAS ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS, PART C- DESIGN OF METAL BUILDINGS SYSTEMS AND THE IN-PLANT INSPECTION PROGRAM IS TO BE IN COMPLIANCE WITH SECTION 1704.2.2 OF THE INTERNATIONAL BUILDING CODE.

7.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION'S (MBMA) 2018 METAL BUILDING SYSTEMS MANUAL. METAL BUILDING LIVE LOADS AND LATERAL LOADS TO MEET THE GENERAL BUILDING CODE NOTED ABOVE.

7.3 COLLATERAL LOADS FROM COMPONENTS SUPPORTED ON OR SUSPENDED FROM THE ROOF STRUCTURE SHALL BE INCLUDED IN THE DESIGN OF THE METAL BUILDING. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF SUSPENDED CEILING. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND MAGNITUDE OF SUPPORTED EQUIPMENT. SEE SPECIFICATIONS FOR MAGNITUDE OF MINIMUM DESIGN COLLATERAL LOADS.

7.4 ANCHOR ROD SIZE, TOTAL LENGTH, AND LOCATION BY METAL BUILDING SUPPLIER. FOR ANCHOR ROD EMBEDMENT LENGTH, SEE SHEET S1.2. ANCHOR RODS PURCHASED AND INSTALLED BY GENERAL CONTRACTOR.

7.5 BEFORE FOOTING INSTALLATION, THE ANCHOR ROD EMBEDMENT LENGTHS MUST BE VERIFIED. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES, WHICHEVER IS GREATER.

7.6 HORIZONTAL FORCE TRANSFER FROM METAL BUILDING COLUMN BASE TO CONCRETE SHALL BE BY THE METAL BUILDING SUPPLIER.

7.7 METAL BUILDING SUPPLIER TO VERIFY COLUMN LAYOUT. ANY CHANGES MUST BE SUBMITTED FOR REVIEW OF FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.

7.8 GRAVITY DESIGN LOADS:
LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)

DEAD LOAD: WEIGHT OF STRUCTURE

COLLATERAL LOAD: INCLUDE ADDITIONAL DEAD LOADS OTHER THAN THE WEIGHT OF THE STRUCTURE FOR PERMANENT ITEMS, SUCH AS SPRINKLERS, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILINGS, LIGHTS, DUCTS, KITCHEN HOODS, OPERABLE WALLS, ETC BUT NOT LESS THAN 10 PSF.

7.9 DEFLECTION LIMITS FOR MEMBERS:
PURLINS AND RAFTERS: DL L/360 LL L/360 TL L/240
GIRTS: HORIZONTAL DEFLECTION OF L/600
OVERALL BUILDING DRIFT: H/600 (BRICK WRAPPED) ELSE H/300, WHERE "H" IS THE BUILDING EAVE HEIGHT.

7.10 ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURES (IN OR OUT) ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.

7.11 THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS) DOWN TO THE FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

7.12 BEFORE FABRICATION AND INSTALLATION OF FOUNDATIONS, METAL BUILDING SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON ASSUMED VALUES. THE FOOTING SIZES ARE NOT FINAL UNTIL METAL BUILDING REACTIONS HAVE BEEN PROVIDED AND REVIEWED. DO NOT FABRICATE REINFORCING STEEL OR INSTALL FOOTINGS PRIOR TO REVIEW OF METAL BUILDING SHOP DRAWINGS BY THIS OFFICE.

7.13 METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

7.14 ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS TO THE METAL BUILDING SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER TO RESIST THE FORCES INDICATED ON THE DRAWINGS. CALCULATIONS FOR THESE CONNECTIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.

7.15 BLOCK MASONRY WALLS ON COLUMN LINES SHALL NOT BE CONSIDERED AS SHEAR WALLS FOR BUILDING STABILITY. FOR COLUMN DESIGN, ASSUME COLUMN UNBRACED LENGTH AS INDEPENDENT OF MASONRY WALL.

7.16 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.

7.17 EXCEPT AS OTHERWISE APPROVED BY ARCHITECT, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.

7.18 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL WIND LOADS.

7.19 METAL BUILDING ENGINEER SHALL VISIT THE JOB SITE AT LEAST ONCE EVERY TWO WEEKS DURING ERECTION TO OBSERVE INSTALLATION OF METAL BUILDING FRAMING AND ISSUE REPORTS TO ARCHITECT/ENGINEER.

7.20 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. ARCHITECT AND STRUCTURAL ENGINEER ARE NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

## 8.0 MASONRY

8.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.

8.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.

8.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.

8.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.

8.5 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 6 OF TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.

8.6 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.

8.7 MORTAR SHALL BE TYPE S OR M. TYPE N MORTAR ALLOWED ONLY IF THE CMU NET COMPRESSIVE STRENGTH IS GREATER THAN 2650 PSI.

8.8 ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.

8.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

8.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE, SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.

8.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.

A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN. REINFORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN INCOMPLETE SUBMITTAL.

8.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN.

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Morgan County, Alabama

| ISSUE | DATE |
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MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 22596 H. CRAIG WINN
H. Craig Winn, P.E.
02/16/2024

GENERAL NOTES

S1.00

2/14/2024 9:53:09 AM

# GENERAL NOTES

8.13 PROVIDE CONTRACTION (CONTROL) JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE ARCHITECT AT A MAXIMUM SPACING OF 2.0 TIMES THE WALL HEIGHT OR 25'-0", WHICHEVER IS LESS.

8.14 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS. BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH MASONRY LAP SPLICES AND CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

8.15 WHEN REINFORCING IS SPECIFIED, PROVIDE REINFORCING AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.

8.16 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED OTHERWISE. AT WINDOWS, PROVIDE A MINIMUM OF 2#4 BARS AT THE SILLS OF THE WINDOWS, UNLESS NOTED OTHERWISE.

8.17 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS.

8.18 WHERE ANY CMU WALL IS NOT SUPPORTED AT THE TOP, PROVIDE MINIMUM #5@16 VERTICAL REINFORCING, UNLESS NOTED OTHERWISE.

8.19 PROVIDE WALL TOP SUPPORT AT 8'-0" O.C. FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS EXCEEDS 20'-0". SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

8.20 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES, FIELD BENDING IS NOT PREMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".

8.21 PROVIDE DOVETAIL ANCHORS AT 16" O.C., UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.

8.22 PROVIDE GROUT FILLED LINTEL BLOCKS AT TOP OF ALL CMU WALLS REINFORCED WITH 2#4 BARS CONTINUOUS, UNLESS NOTED OTHERWISE.

8.23 CONDUITS, REFRIGERANT PIPING (WITH ANY REQUIRED INSULATION INCLUDED), CONDENSATE DRAIN LINES, ETC. UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONTINUOUS THRU MASONRY WALLS & BOND BEAMS. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF CONDUITS, PIPING, DRAIN LINES, ETC.

8.24 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.

8.25 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR, PROVIDE #6 AT 16" O.C., UP TO THE FIRST COURSE ABOVE FINISH FLOOR ELEVATION, IN ADDITION TO THE SPECIFIED REINFORCEMENT, UNLESS NOTED OTHERWISE.

8.26 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.

A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION".
B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASON CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

8.27 PROVIDE 2 COURSES OF GROUT FILLED OPEN BOTTOM BOND BEAM BLOCKS REINFORCED WITH 2#5 BARS CONTINUOUS AT ALL STEEL STAIR ATTACHMENT LOCATIONS, UNLESS NOTED OTHERWISE. CONTRACTOR COORDINATE EXACT LOCATIONS WITH STEEL STAIR DESIGNER.

## 9.0 COLD-FORMED STEEL FRAMING (NON-LOAD BEARING)

9.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

9.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

9.3 DEFLECTION LIMITS FOR MEMBERS:

| | | | | |
|---|---|---|---|---|
| A. | SOFFITS: | DL L/240 | LL L/240 | TL L/180 |
| B. | WALL SUPPORTING BRICK: | HORIZONTAL DEFLECTION OF L/600 | | |
| C. | WALL SUPPORTING STUCCO: | HORIZONTAL DEFLECTION OF L/360 | | |
| D. | WALL SUPPORTING EIFS: | HORIZONTAL DEFLECTION OF L/240 | | |
| E. | WALL PARTITIONS: | HORIZONTAL DEFLECTION OF L/180 | | |

9.4 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

9.5 COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN.

9.6 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" O.C.

9.7 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

9.8 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS.

9.9 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.

9.10 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL NON-LOAD BEARING COLD-FORMED STEEL FRAMING.

9.11 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

## 10.0 STRUCTURAL COLD-FORMED STEEL FRAMING (LOAD BEARING)

10.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

10.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

10.3 DEFLECTION LIMITS FOR MEMBERS:

| | | | | |
|---|---|---|---|---|
| A. | SOFFITS: | DL L/240 | LL L/240 | TL L/180 |
| B. | WALL SUPPORTING BRICK: | HORIZONTAL DEFLECTION OF L/600 | | |
| C. | WALL SUPPORTING STUCCO: | HORIZONTAL DEFLECTION OF L/360 | | |
| D. | WALL SUPPORTING EIFS: | HORIZONTAL DEFLECTION OF L/240 | | |
| E. | WALL PARTITIONS: | HORIZONTAL DEFLECTION OF L/180 | | |

10.4 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

10.5 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS, OR AS REQUIRED BY DESIGN.

10.6 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.

10.7 FASTEN TRACKS TO CONCRETE SLAB WITH HILTI HIT X-U 0.157" DIAMETER POWDER ACTUATED FASTENERS @ 24 O.C. WITH 1" EMBEDMENT, OR AS REQUIRED BY DESIGN. LOCATE A MINIMUM OF TWO (2) FASTENERS AT JAMBS.

10.8 VERTICAL STUDS SHALL BE 100% END BEARING. GAP BETWEEN THE LOAD-BEARING STUD AND THE TRACK SHALL NOT EXCEED 1/8 INCH.

10.9 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING, OR AS REQUIRED BY DESIGN. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 16" O.C.

10.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

10.11 WALLS SHALL BE SHEATHED WITH EITHER GYPSUM. FOR WALLS WITHOUT SHEATHING, SEE TYPICAL DETAILS.

10.12 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL LOAD-BEARING COLD-FORMED STEEL FRAMING.

10.13 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

## 11.0 POST-INSTALLED ANCHORS AND REINFORCING

11.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

11.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

11.3 FOR ANCHORING INTO CONCRETE:

A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED CONCRETE ONLY
5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
9. HILTI HSL-4 EXPANSION ANCHORS (ICC ESR 4386)
10. DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818)
13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
14. DEWALT CCU+ UNDERCUT (ICC-ES ESR-4810)
15. DEWALT POWER-BOLT+ (ICC-ES ESR-3260)

B. MECHANICAL ANCHORS FOR USE IN THE UNDER SIDE OF NORMAL WEIGHT HOLLOW CORE AND POST TENSION SLAB WHERE EMBEDMENT DEPTH MUST NOT EXCEED ¾". PRE-APPROVED PRODUCTS INCLUDE:

1. DEWALT MINI-UNDERCUT+ (ICC-ES ESR-3912)
2. HILTI HDP-P TZ DROP-IN ANCHOR (ICC ESR-4236)

C. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
2. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263)
3. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
4. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
6. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298
7. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027

D. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
5. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

11.4 FOR ANCHORING INTO MASONRY:

A. SOLID-GROUTED CONCRETE MASONRY

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056)
b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
c. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)
d. SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716)
e. HILTI KH-EZ, KH-EZ CRC, KH-EZ SS316, KH-EZ C, AND KH-EZ P SCREW ANCHORS (ICC ESR-3056)
f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677)
g. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561)
h. DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)
i. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966)

2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)
b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
c. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR
d. HILTI HIT-HY 200 v3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4878)
e. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
d. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

B. HOLLOW CONCRETE MASONRY

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
b. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716)

2. ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
b. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
c. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
c. HILTI "DRYWALL TRACK FASTENERS" X-DW (ICC ESR-1663)

C. UNREINFORCED BRICK MASONRY (URM): ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC60. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3638)
2. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
3. DEWALT "AC100+ GOLD" (ICC-ES ESR-4105)

11.5 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS:

1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16 GA ≤ TF ≤ 1/4"
2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM 1/8" ≤ TF ≤ 3/8"
3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF ≥ 1/4".

D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

11.6 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.

11.7 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

11.8 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

11.9 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS, UNLESS SHIMS ARE PROVIDED. ANCHORS ARE TO SECURE CONNECTED PARTS TOGETHER SNUGLY AND SECURELY.

11.10 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED.

11.11 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

11.12 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

11.13 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

11.14 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, HILTI PS 1000 X-SCAN, CHIPPING, OR OTHER MEANS.

## 12.0 PREFABRICATED CANOPY

12.1 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE CONSIDERED A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.

12.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE FULLY ENGINEERED BY THE CANOPY MANUFACTURER AND CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

12.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.

12.4 PROTECTIVE COVER WALKWAY AND PREFABRICATED CANOPY SHOP DRAWINGS SHALL BE SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL CANOPY MEMBERS, INCLUDING COLUMNS, BEAMS, FOOTINGS, FACIA, ETC. SHOP DRAWINGS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

12.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE ATTACHED TO BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE LOAD-BEARING MASONRY WALL FOR WALKWAY AND CANOPY ANCHORAGE AS REQUIRED. MINIMUM 16" DEEP BOND BEAM IS TO BE CONSTRUCTED ON (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS IN EACH COURSE. CONNECTIONS TO BUILDING BY CANOPY MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY AND CANOPY TO VENEER. ANCHOR WALKWAY AND CANOPY INTO LOAD-BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.


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Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 02/16/24 |

DRAWN BY: SPH
CHECKED BY: TPF

MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

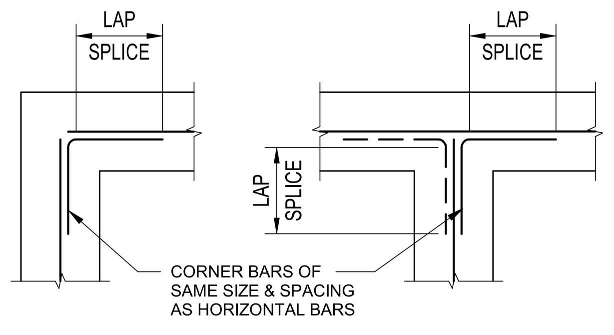
GMC AHUN230008

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WILLIAMS
02/16/2024

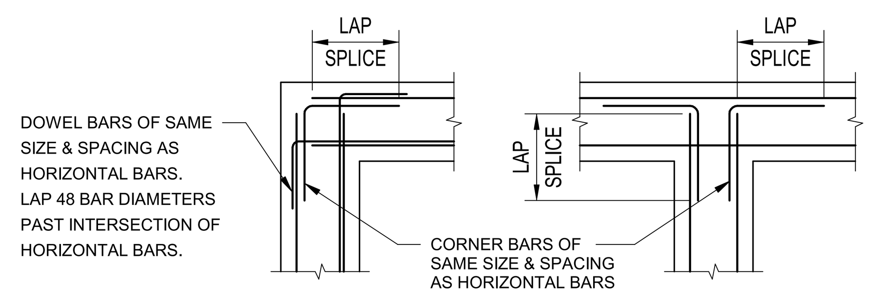
GENERAL NOTES

S1.01

2/14/2024 9:53:09 AM




SINGLE LAYER REINFORCEMENT

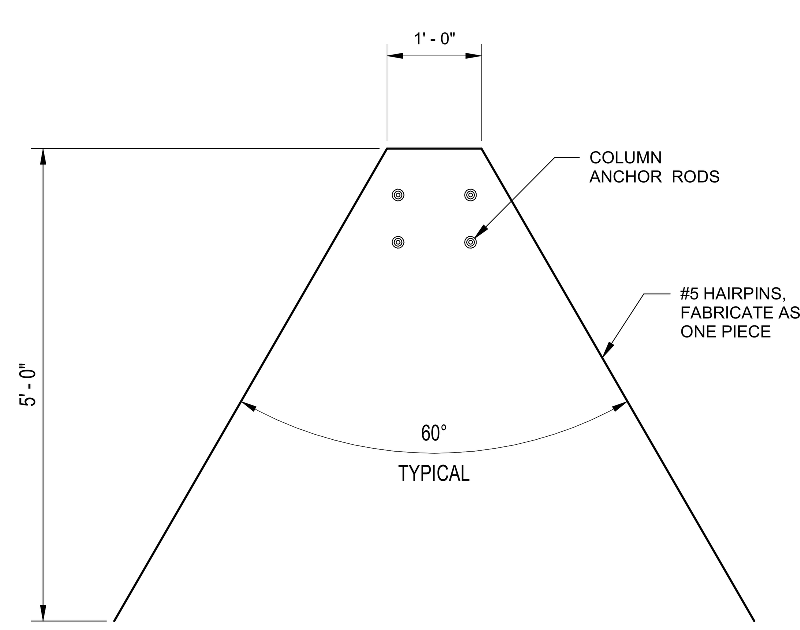



DOUBLE LAYER REINFORCEMENT

NOTE: ALL LAP SPLICES CLASS "B" TENSION

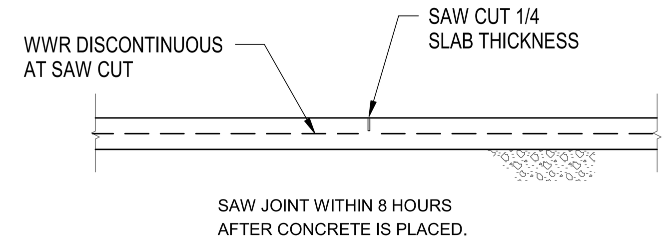
## FOOTING CORNER REINFORCING DETAIL

TYPICAL

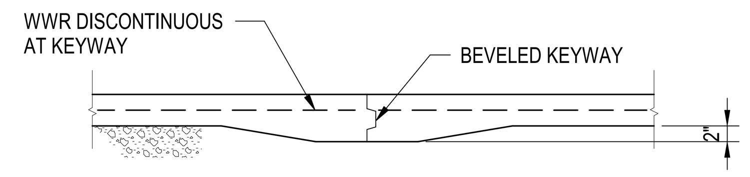



## COLUMN HAIRPIN DETAIL

TYPICAL




SAWED JOINT

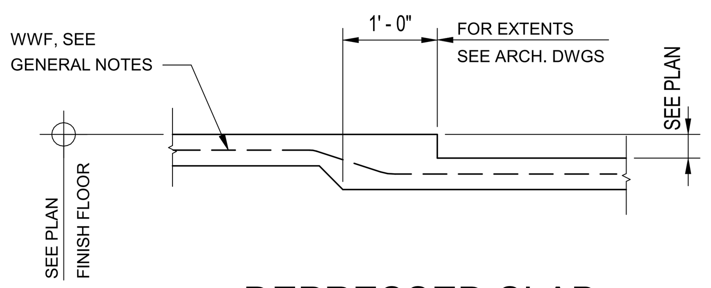



KEYED JOINT

## SLAB CONTROL JOINT DETAILS

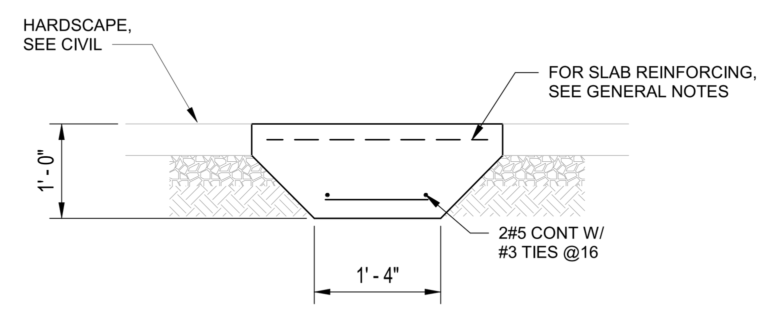
TYPICAL
JOINT TYPE IS OPTIONAL

NOTE:
CONTRACTOR COORDINATE W/ARCHITECT
FOR ALL DEPRESSED SLAB AREAS BEFORE
SLAB ON GRADE IS PLACED.




## DEPRESSED SLAB ON GRADE DETAIL

TYPICAL




## THICKENED SLAB ON GRADE DETAIL

TYPICAL

## MASONRY LINTEL SCHEDULE

| MAXIMUM OPENING WIDTH | STEEL FOR EACH 4" OF WALL THICKNESS | LINTEL DIMENSIONS AND REINFORCING: DEPTH | 8" WALL |
|---|---|---|---|
| 2'-0" | L3 1/2x3 1/2x3/8 | 8 | 1#4 BOT |
| 4'-0" | L3 1/2x3 1/2x3/8 | 8 | 1#4 BOT |
| 6'-0" | L3 1/2x3 1/2x3/8 | 8 | 1#5 BOT & 1#4 TOP |
| 8'-0" | L5x3 1/2x3/8 | 16 | 1#6 BOT & 1#5 TOP |
| 10'-0" | | 16 | 1#7 BOT & 1#5 TOP |
| 12'-0" | | 16 | 1#8 BOT & 1#5 TOP |

1. DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL, OR IF STACK BOND IS SPECIFIED.
2. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS. FOR LINTELS GREATER THAN 6'-0" FILL CELLS SOLID AT EACH SIDE OF OPENING.
3. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.
4. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.

## TENSION LAP SPLICE LENGTHS

| BAR SIZE | $f_C$ = 3000 PSI TOP BARS A | TOP BARS B | OTHER BARS A | OTHER BARS B | $f_C$ = 4000 PSI TOP BARS A | TOP BARS B | OTHER BARS A | OTHER BARS B |
|---|---|---|---|---|---|---|---|---|
| #3 | 22" | 28" | 17" | 22" | 19" | 24" | 15" | 19" |
| #4 | 29" | 37" | 22" | 29" | 25" | 32" | 19" | 25" |
| #5 | 36" | 47" | 28" | 36" | 31" | 40" | 24" | 31" |
| #6 | 43" | 56" | 33" | 43" | 37" | 48" | 29" | 37" |
| #7 | 63" | 81" | 48" | 63" | 54" | 70" | 42" | 54" |
| #8 | 72" | 93" | 55" | 72" | 62" | 80" | 48" | 62" |
| #9 | 81" | 105" | 62" | 81" | 70" | 91" | 54" | 70" |
| #10 | 91" | 118" | 70" | 91" | 79" | 102" | 61" | 79" |
| #11 | 101" | 131" | 78" | 101" | 87" | 113" | 67" | 87" |

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

## ANCHOR ROD EMBEDMENT LENGTHS

| BOLT DIA | MIN EMBEDMENT |
|---|---|
| 3/4" | 9" |
| 1" | 12" |
| 1 1/4" | 15" |
| 1 1/2" | 18" |

NOTE:
ANCHOR ROD SIZE AND MATERIAL TO BE PROVIDED BY METAL BUILDING MANUFACTURER. THE ABOVE TABLE IS MINIMUM EMBEDMENT TO FULLY DEVELOP ASTM F1554 GRADE 36 HEADED ANCHOR RODS. FINAL ANCHOR ROD EMBEDMENT DEPTH SHALL BE DETERMINED BY STRUCTURAL ENGINEER AFTER SUBMITTAL OF COLUMN BASE AND ANCHOR ROD INFORMATION FROM METAL BUILDING MANUFACTURER PRIOR TO MATERIAL ORDER AND FABRICATION.

## COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

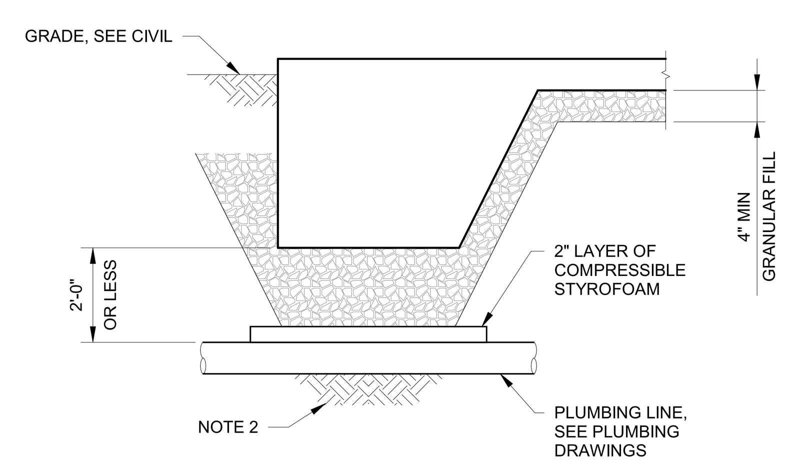
| H = 34'-0" 1:12 Roof Slope | EFFECTIVE WIND AREA (FT2) | 112 MPH VELOCITY (3-SEC. GUST): ZONES 4 & 5 | ZONES 4 (Int.) | ZONES 5 (Edge) |
|---|---|---|---|---|
| | 10 | 29.7 | -32.2 | -39.6 |
| | 20 | 28.4 | -30.9 | -37.0 |
| | 50 | 26.7 | -29.1 | -33.5 |
| | 100 | 25.3 | -27.8 | -30.9 |
| | 200 | 24.0 | -26.5 | -28.3 |
| | 500 | 22.3 | -24.8 | -24.8 |

**NOTES:**
1. **WIDTH OF EDGE STRIP 'a' = 13'-8".**
2. **VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.**
3. **PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.**
4. **EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.**
5. **WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.**

## COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)

| 112 MPH VELOCITY (3-SEC. GUST) H = 34'-0" 1:12 Roof Slope | EFFECTIVE WIND AREA (FT2) | ROOF: Positive Max. Net Pressure 'p' (PSF) | Zone 1' (Int.) (PSF) | Zone 1 (Int.) (PSF) | Zone 2 (Edge) (PSF) | Zone 3 (Corner) (PSF) | OVERHANG: Zone 1' & 1 (Int.) - Max. Net Pressure 'p' (PSF) | Zone 2 (Edge) - Max. Net Pressure 'p' (PSF) | Zone 3 (Corner) - Max. Net Pressure 'p' (PSF) |
|---|---|---|---|---|---|---|---|---|---|
| | 10 | 16.0 | -29.7 | -51.7 | -68.2 | -93.0 | -46.8 | -63.3 | -88.0 |
| | 20 | 16.0 | -29.7 | -48.3 | -63.8 | -84.2 | -45.9 | -57.4 | -77.8 |
| | 50 | 16.0 | -29.7 | -43.8 | -58.0 | -72.6 | -44.9 | -49.7 | -64.3 |
| | 100 | 16.0 | -29.7 | -40.4 | -53.7 | -63.8 | -44.0 | -43.8 | -54.0 |
| | 200 | 16.0 | -25.6 | -37.0 | -49.3 | -55.1 | -36.9 | -38.0 | -43.8 |
| | 500 | 16.0 | -20.1 | -32.5 | -43.5 | -43.5 | -27.5 | -30.3 | -30.3 |

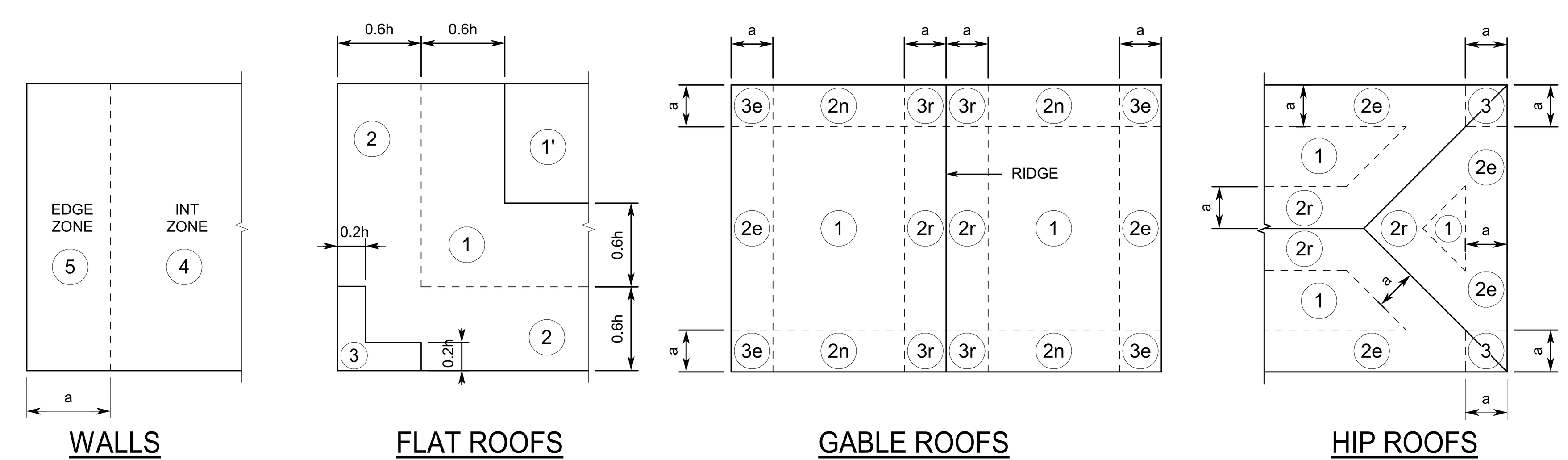
**NOTES:**
1. **WIDTH OF EDGE STRIP 'a' = 13'-8".**
2. **VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.**
3. **PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.**
4. **EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.**
5. **CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT... FOR ROOF FRAMING MEMBERS AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.**
6. **WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.**




NOTES:
1. DO NOT RUN PLUMBING LINE BELOW AND PARALLEL TO FOOTING. OFFSET PARALLEL PLUMBING LINE MINIMUM 1'-0" BEYOND EDGE OF FOOTING.
2. SOIL UNDER UTILITY TRENCHES SHALL BE COMPACTED AS REQUIRED TO PROVIDE ALLOWABLE BEARING PRESSURE NOTED IN GENERAL NOTES.
3. IF A PLUMBING LINE IS REQUIRED TO EXTEND VERTICALLY THROUGH THE FOOTING, CONTRACTOR TO PROVIDE A PVC SLEEVE (1" LARGER IN DIAMETER THAN PLUMBING LINE) TO ALLOW FOR FOOTING MOVEMENT.

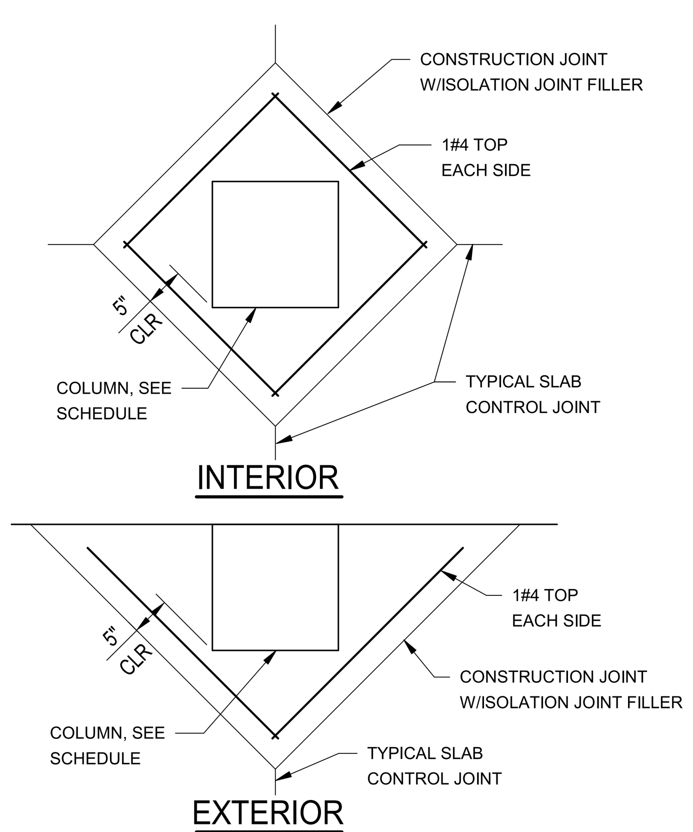
## PLUMBING LINE BELOW FOOTING (IF LESS THAN 2'-0")

TYPICAL



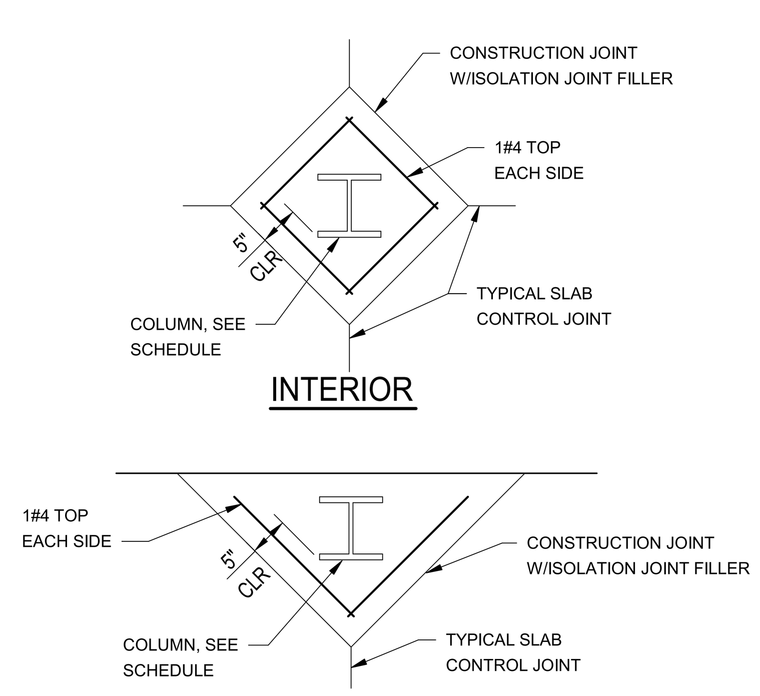

## WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

TYPICAL



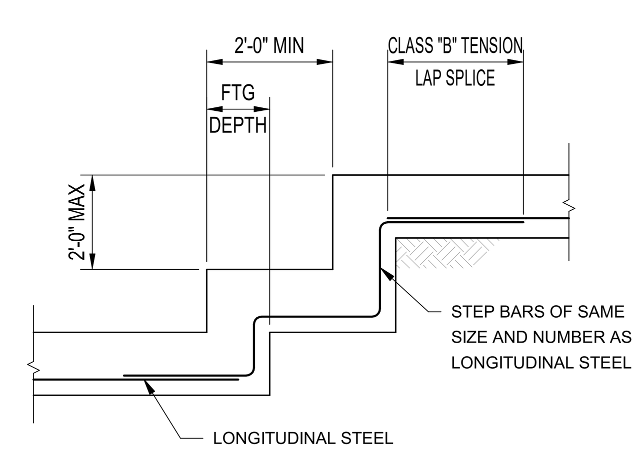

## ISOLATION JOINT DETAIL

TYPICAL



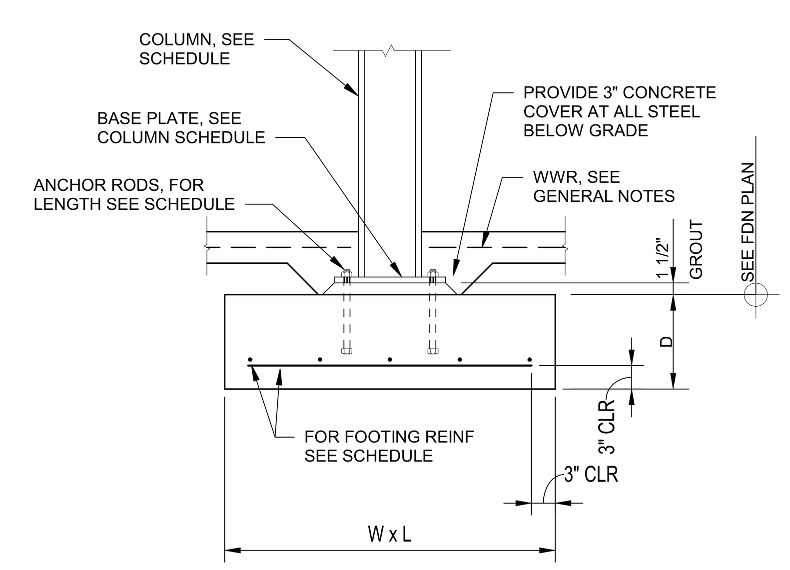

## ISOLATION JOINT DETAIL

TYPICAL



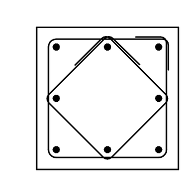

## FOOTING STEP DETAIL

TYPICAL




## COLUMN BASE AND FOOTING DETAIL

TYPICAL

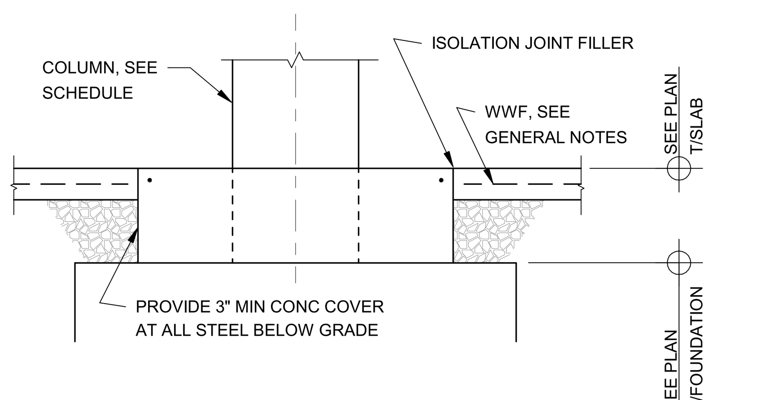


8 BARS

NOTE: ALTERNATE POSITION OF TIE HOOKS IN PLACING SUCCESSIVE SETS OF TIES

## COLUMN TIE DETAILS

TYPICAL

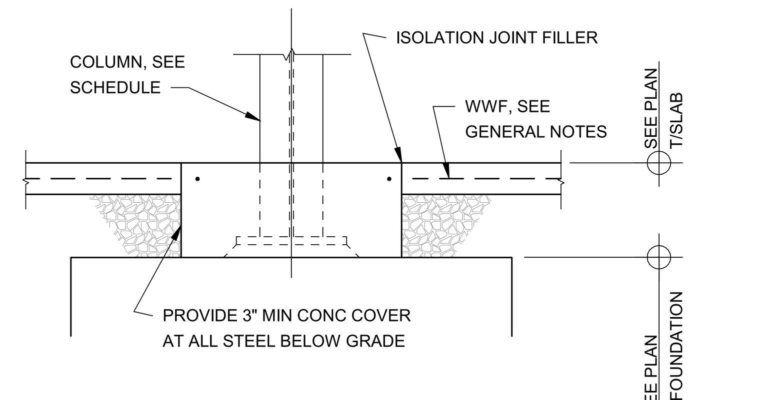



SECTION AT COLUMN

NOTE:
CHOICE OF ISOLATION JOINT DETAIL IS CONTRACTORS OPTION.

## COLUMN/SLAB-JOINT DETAIL

TYPICAL




SECTION AT COLUMN

NOTE:
CHOICE OF ISOLATION JOINT DETAIL IS CONTRACTORS OPTION.

## COLUMN/SLAB-JOINT DETAIL

TYPICAL

## FOOTING SCHEDULE

| FOOTING DESIGNATION | | F3.0 | F4.0 | F5.0 | F6.0 | F7.0 | F7.5 | F8.0 | F9.0 | F10.0 | F11.0 | F12.0 | F14.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FOOTING | SIZE (LxW) | 3'-0"x3'-0" | 4'-0"x4'-0" | 5'-0"x5'-0" | 6'-0"x6'-0" | 7'-0"x7'-0" | 7'-6"x7'-6" | 8'-0"x8'-0" | 9'-0"x9'-0" | 10'-0"x10'-0" | 11'-0"x11'-0" | 12'-0"x12'-0" | 14'-0"x14'-0" |
| | DEPTH (D) | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" |
| | REINF EW (BOT) | 3#5 | 4#5 | 5#5 | 6#5 | 7#5 | 7#6 | 8#6 | 9#6 | 10#5 | 11#6 | 12#6 | 14#6 |
| | NOTES | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

NOTES:
1. PROVIDE SCHEDULED REINFORCEMENT ON TOP AND BOTTOM OF FOOTING.

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-232

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

Morgan County, Alabama

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CHECKED BY: TPF

MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn, P.E.
02/16/2024

TYPICAL DETAILS

S1.02

2/14/2024 9:53:10 AM

SDG
STRUCTURAL DESIGN GROUP
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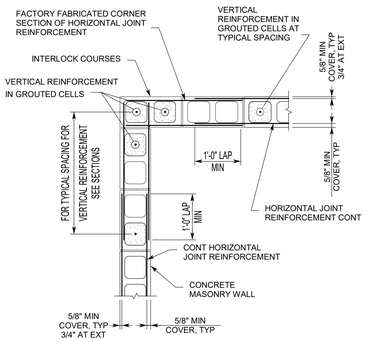
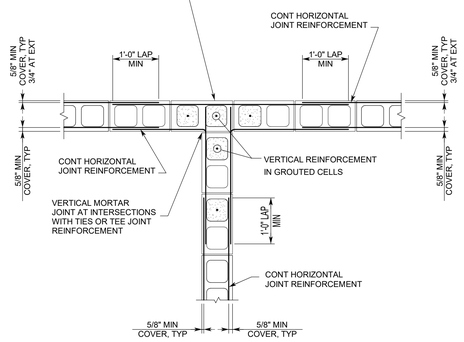
fax 205-824-5280
Job Number 23-232

ANCHOR WALLS BY:
1. INTERSECTING 50% OF UNITS OVERLAPPING WITH ALTERNATE UNITS BEARING 3" MINIMUM ON THE UNIT BELOW.
2. GALV PL 1/4x1 1/2x2'-4" TIE @ 4'-0" OC WITH ENDS BENT 2", ALTERNATING ENDS UP AND DOWN.
3. FACTORY FABRICATED TEE JOINT REINFORCING SPACED 8" OC AND EXTENDING 30" MINIMUM IN EACH DIRECTION AT THE INTERSECTION.



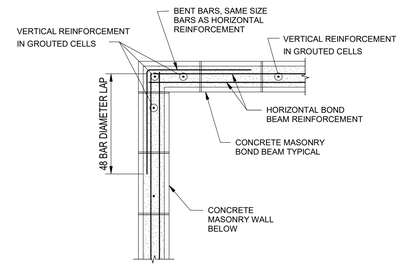

## PLAN SHOWING JOINT REINFORCEMENT AT WALL CORNER

TYPICAL



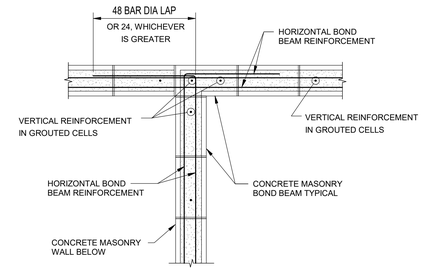

## PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION

TYPICAL



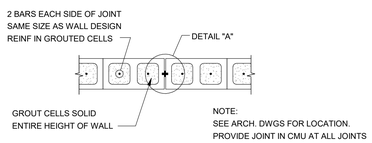

## PLAN SHOWING BOND BEAM REINFORCEMENT AT WALL CORNER

TYPICAL




## PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION

TYPICAL

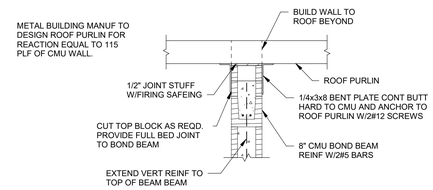



NOTE:
SEE ARCH. DWGS FOR LOCATION.
PROVIDE JOINT IN CMU AT ALL JOINTS IN ANY BRICK.

PLAN

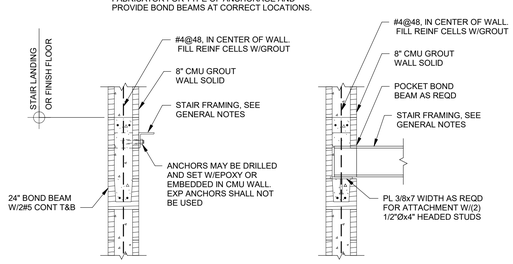
## MASONRY CONTROL JOINT

3/4"=1'-0'



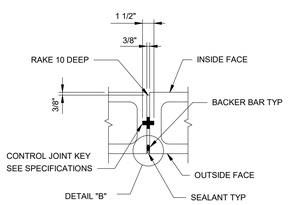

## WALL PERPENDICULAR TO ROOF PURLINS

NOTE:
CONTRACTOR SHALL COORDINATE W/METAL STAIR FABRICATOR FOR TYPE OF ANCHORAGE AND PROVIDE BOND BEAMS AT CORRECT LOCATIONS.



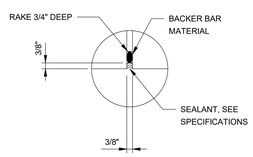

## METAL STAIR ANCHORAGE TO CMU WALL

TYPICAL



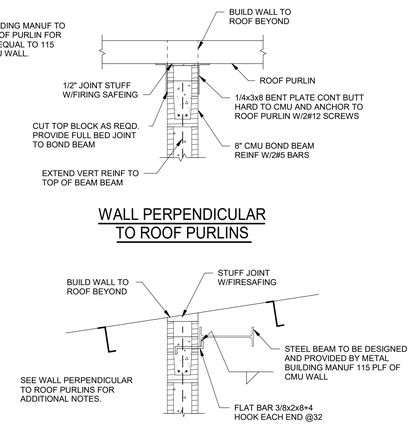

## DETAIL "A"
## MASONRY CONTROL JOINT

1 1/2"=1'-0"




## DETAIL "B"
## MASONRY CONTROL JOINT

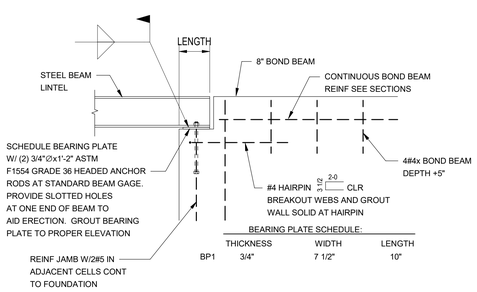
3"=1'-0"




## WALL PARALLEL TO PURLINS

## MASONRY WALL SUPPORT AT ROOF

TYPICAL



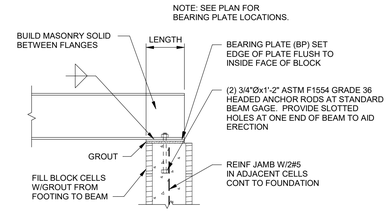

BEARING PLATE SCHEDULE:

| | THICKNESS | WIDTH | LENGTH |
|---|---|---|---|
| BP1 | 3/4" | 7 1/2" | 10" |

## BEAM BEARING DETAIL IN LINE WITH CMU WALL

TYPICAL

NOTE: SEE PLAN FOR BEARING PLATE LOCATIONS.

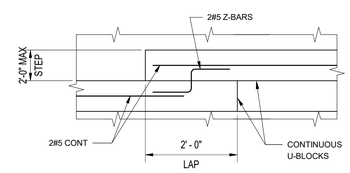



BEARING PLATE SCHEDULE:

| | THICKNESS | WIDTH | LENGTH |
|---|---|---|---|
| BP2 | 3/4" | 10" | 7 1/2" |

## BEAM BEARING DETAIL

TYPICAL




## MASONRY BOND BEAM STEP DETAIL

TYPICAL

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

Morgan County, Alabama

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WILLIAMS
02/16/2024

TYPICAL DETAILS

S1.03

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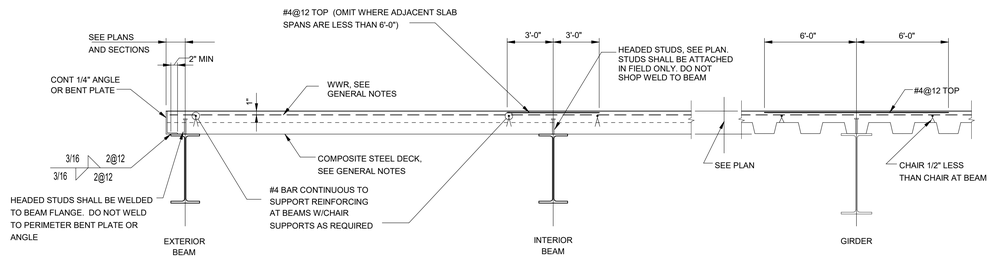
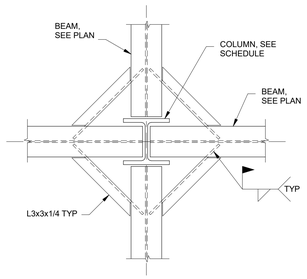
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-232




## COMPOSITE SLAB/DECK DETAILS

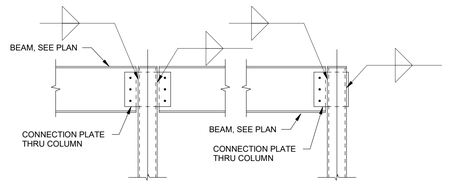
TYPICAL



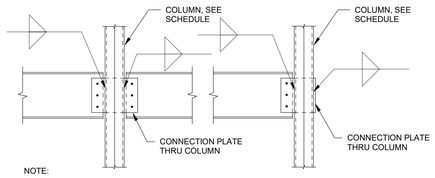

PLAN

## COMPOSITE DECK SUPPORT DETAIL

TYPICAL




ROOF




NOTE:
MINIMUM 3/8" THICK
CONNECTION PLATES.

FLOOR

## BEAM/COLUMN CONNECTION DETAILS

TYPICAL

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Morgan County, Alabama

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**MORGAN COUNTY EVENT CENTER**
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LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WILSON
P.E.
02/16/2024

**TYPICAL DETAILS**

S1.04

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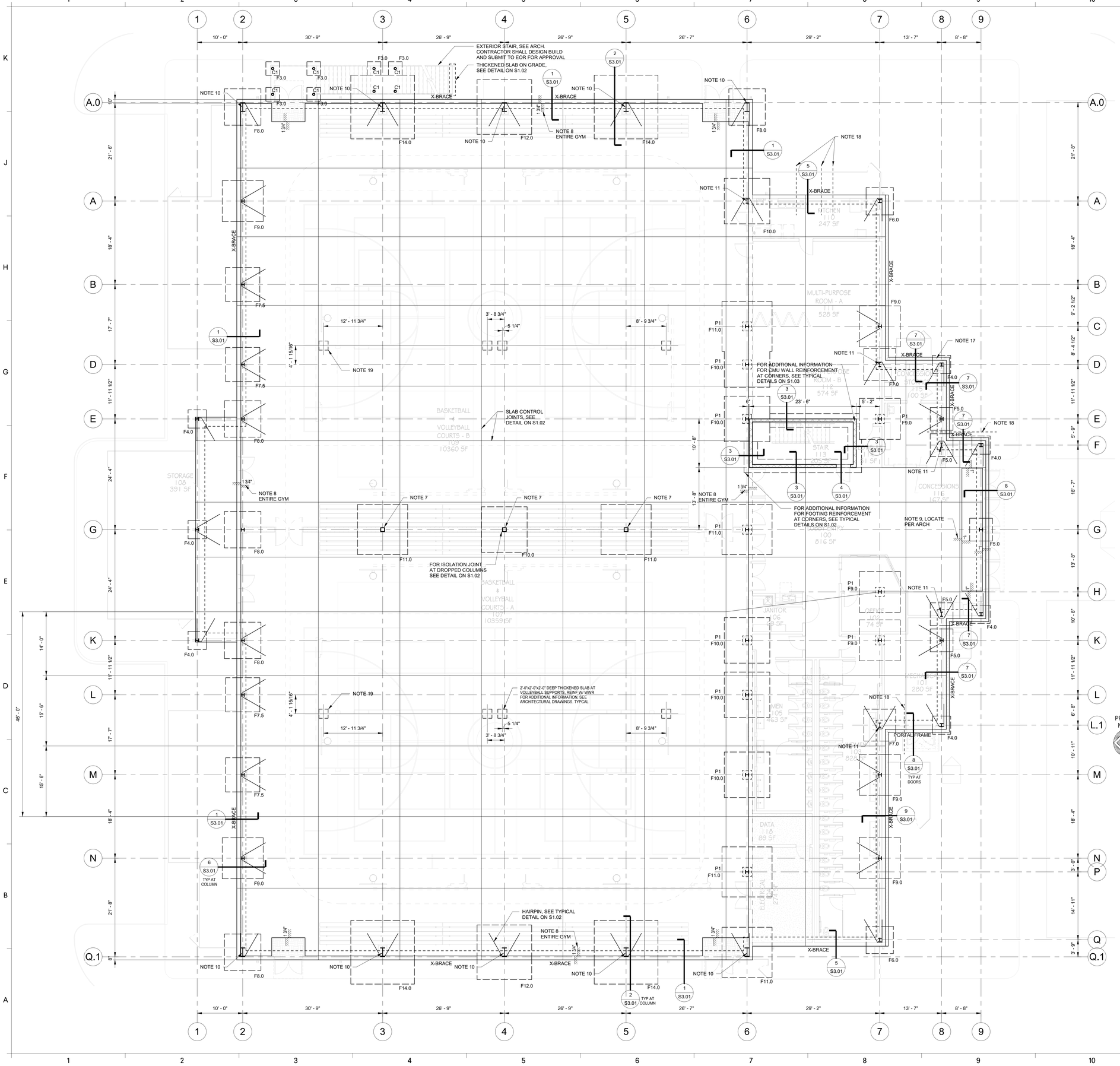


## FOUNDATION PLAN

1/8" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALL.
4. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
5. FOR SLAB RECESS, SLOPES TO DRAIN AND DEPRESSIONS, SEE ARCHITECTURAL DRAWINGS AND DETAILS ON S1.02.
6. GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. MAXIMUM SIZE OF CENTER COLUMN SHALL BE HSS10x10 TO CONCEAL WITHIN DEMISING WALL. BEAR COLUMNS ON FOOTINGS AT -2'-0" BELOW FINISH FLOOR.
8. DEPRESS SLAB 1 3/4" AT NOTED LOCATIONS. SEE DETAIL ON S1.02 FOR ADDITIONAL INFORMATION.
9. DEPRESSED SLAB 1" AT NOTED LOCATIONS. SEE DETAIL ON S1.02 FOR ADDITIONAL INFORMATION.
10. METAL BUILDING MANUFACTURER TO TAPER COLUMN. MAXIMUM COLUMN DEPTH AT BASE 2'-0".
11. METAL BUILDING MANUFACTURER TO TAPER COLUMN. MAXIMUM COLUMN DEPTH AT BASE 1'-0".
12. "F.X.X" INDICATES FOOTING, SEE SCHEDULE ON S1.02 FOR MORE INFORMATION.
13. C1 INDICATES HSS6x0.375 COLUMN W/ 3/4x12x12 BP W/ (4)3/4"Ø ANCHOR RODS MINIMUM 9" EMBEDMENT.
14. GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
15. COORDINATE ALL BUILDING OFFSETS AND SLAB EDGE WITH ARCHITECTURAL DRAWINGS.
16. P1 INDICATES 24x24 PEDESTAL FROM TOP OF FOOTING TO FINISHED FLOOR. REINFORCE PEDESTAL W/ #6 SADDLES SIM TO 2/S3.1.
17. METAL BUILDING MAUFACTURER TO DESIGN BUILDING FOR FULL HEIGHT BRICK. SEE ELEVATIONS. SEE GENERAL NOTES FOR DEFLECTION REQUIREMENTS.
18. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL INVERTS WITH THE LATEST CIVIL, PLUMBING, AND UTILITY DRAWINGS. SEE DETAILS ON S1.02 FOR FOOTING STEP AND PLUMBING LINE BELOW FOOTING.GC TO COORDINATE WITH CIVIL, PLUMBING, AND UTILITY TO AVOID SPREAD FOOTING FOUNDATIONS.
19. SUBMIT DIMENSIONED COURT MARKINGS PRIOR TO POURING SLAB AT VOLLEYBALL POSTS.


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Job Number 23-232



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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WILLIS
02/16/2024

FOUNDATION PLAN

S2.01

2/16/2024 1:20:56 PM

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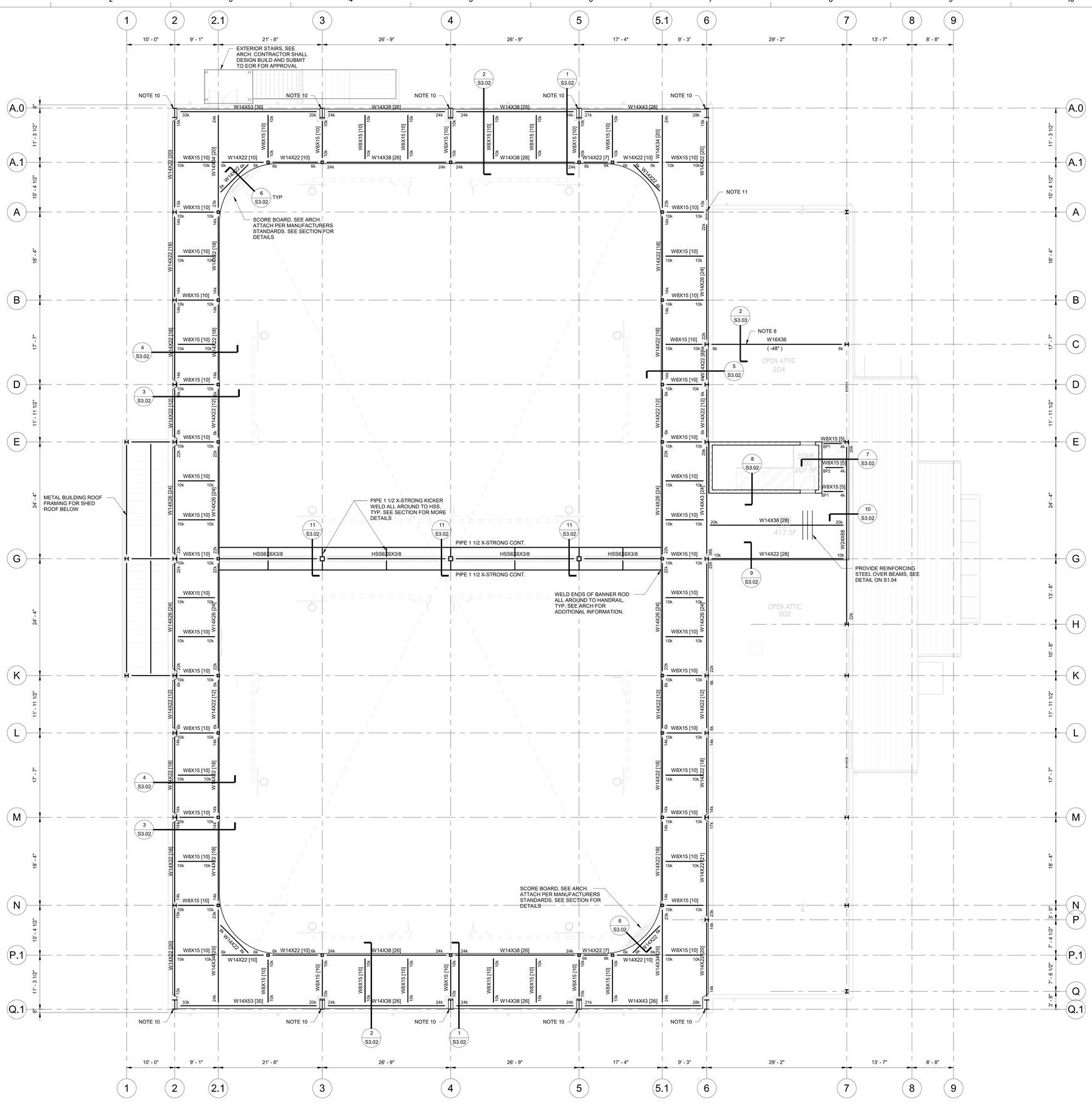


## MEZZANINE FLOOR FRAMING PLAN

1/8" = 1'-0"

1. FINISHED FLOOR (TOP OF SLAB) ELEVATION 16'-0", UNLESS NOTED (±) INCHES.
2. TOP OF STEEL ELEVATION 15'-6", UNLESS NOTED (±) INCHES.
3. FLOOR (OR ROOF) SYSTEM: 3" NORMAL WEIGHT CONCRETE ON 3" COMPOSITE STEEL DECK (6" TOTAL). SEE GENERAL NOTES.
4. SPACE BEAMS EQUALLY BETWEEN COLUMN CENTERLINES, UNLESS NOTED.
5. [ ] INDICATES NUMBER OF 3/4" DIAMETER BY 4 1/2" HEADED STUDS SPACED UNIFORMLY ALONG MEMBER WHERE SINGLE VALUE IS GIVEN. SPACE UNIFORMLY ALONG A PART OF MEMBER BETWEEN SUPPORTED BEAMS, OR COLUMN AND BEAM, WHERE MORE THAN ONE VALUE IS GIVEN. SEE GENERAL NOTES.
6. BEAM REACTIONS ARE INDICATED AT ENDS OF BEAMS AS "Xk" WHERE "X" IS THE MAGNITUDE OF THE WORKING LOAD SHEAR REACTIONS IN KIPS. REACTIONS SHOWN ON PLANS DO NOT INCLUDE VERTICAL COMPONENT OF AXIAL FORCES IN BRACES.
7. STRUCTURAL STEEL CONNECTING TO PRE-ENGINEERED METAL BUILDING FRAME SHALL HAVE CONNECTIONS DESIGNED BY THE METAL BUILDING MANUFACTURER FOR THE REACTIONS SHOWN.
8. BEAM TO SUPPORT OPERABLE PARTITION. COORDINATE REQUIREMENTS WITH PARTITION MANUFACTURER.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY ITEMS TO BE HUNG FROM METAL BUILDING FRAMES. METAL BUILDING DESIGNER SHALL DESIGN RESPECTIVE FRAMES TO ADEQUATELY SUPPORT GRAVITY AND LATERAL LOADS INDICATED IN GENERAL NOTES AND ANY HANGING ITEMS, SUCH AS BASKETBALL GOALS.
10. METAL BUILDING MANUFACTURER TO TAPER COLUMN. MAXIMUM COLUMN DEPTH AT 6'-8" ABOVE FINISHED FLOOR 2'-0".
11. THE MEZZANINE WALKWAY WILL ADD 115PLF (NET SERVICE) LOADING ALONG COLUMN LINES Q.1, A.0, 6, 2. THIS LOAD IS APPLIED HORIZONTALLY IN PLAN TO RESIST LATERAL MOVEMENT OF THE WALKWAY. THIS LOAD WILL TRANSFER THROUGH THE STEEL BEAMS AT THE MEZZANINE LEVEL AND INTO THE METAL BUILDING COLUMNS. THE METAL BUILDING MANUFACTURER SHALL PROVIDE LATERAL ELEMENTS AS NECESSARY TO TRANSFER THIS LOAD TO THE BUILDING FOUNDATIONS.

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ALABAMA REGISTERED No. 23506 PROFESSIONAL ENGINEER CRAIG WILLIAMS
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MEZZANINE FLOOR FRAMING PLAN

S2.02

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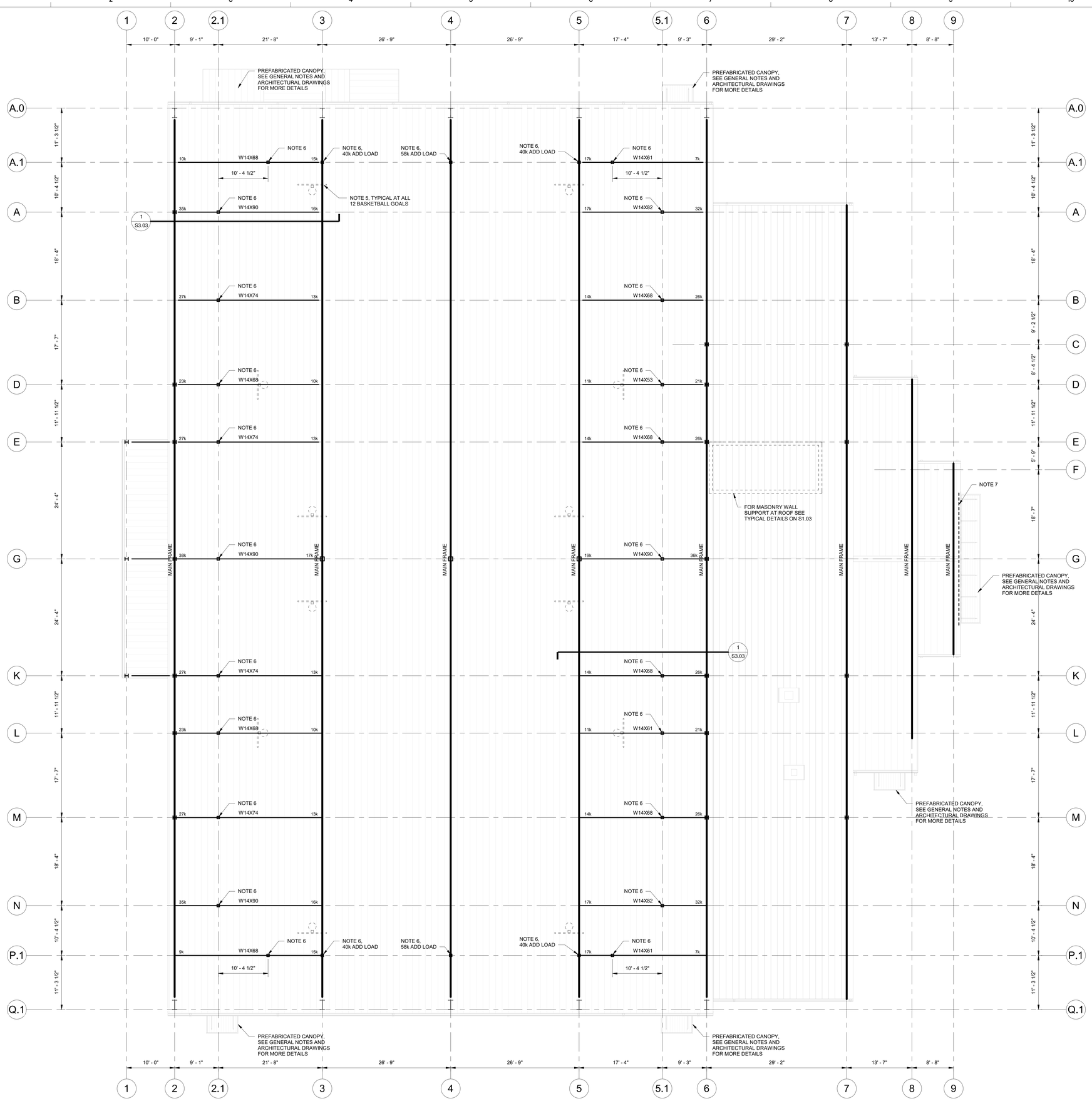


PROJECT NORTH

## ROOF FRAMING PLAN

1/8" = 1'-0"

1. BEAM REACTIONS ARE INDICATED AT ENDS OF BEAMS AS "Xk" WHERE "X" IS THE MAGNITUDE OF THE WORKING LOAD SHEAR REACTION IN KIPS.
2. METAL BUILDING DESIGNER SHALL DESIGN FRAMES FOR ADDITIONAL LOADS SHOWN ON THE PLANS FROM HANGING COLUMNS AND BEAMS.
3. METAL BUILDING DESIGNER SHALL DESIGN ALL STRUCTURAL STEEL CONNECTIONS FOR ELEMENTS ATTACHING TO THE METAL BUILDING FRAME.
4. SEE ARCHITECTURAL DRAWINGS FOR ANY ITEMS TO BE HUNG FROM METAL BUILDING FRAMES. METAL BUILDING DESIGNER SHALL DESIGN RESPECTIVE FRAMES TO ADEQUATELY SUPPORT GRAVITY AND LATERAL LOADS INDICATED IN GENERAL NOTES AND ANY HANGING ITEMS, SUCH AS BASKETBALL GOALS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF BASKETBALL GOAL SUPPORTS AND THEIR ATTACHMENT TO THE ROOF STRUCTURE. SUBMIT SHOP DRAWINGS SHOWING DETAILING OF GOAL SUPPORTS AND ATTACHMENT TO ROOF STRUCTURE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER. COORDINATE LOADS WITH METAL BUILDING MANUFACTURER.
6. HSS6x6x3/8 HANGING POST WELD ALL AROUND TO BEAM BOTTOM FLANGE W/ 3/8" THICK WEB STIFFENERS EACH SIDE.
7. METAL BUILDING MANUFACTURER TO PROVIDE STEEL BEAM FOR OPENINGS BELOW. STEEL BEAM TO SUPPORT 350PLF OF DEAD LOAD AND 150PLF OF NET WIND LOAD (SERVICE).
8. METAL BUILDING MANUFACTURER SHALL COORDINATE WITH MECHANICAL DRAWINGS TO SET MAXIMUM DEPTH OF MAIN FRAME BEAMS BASED ON TOP OF DUCT WORK ELEVATIONS.


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ALABAMA REGISTERED No. 22596 PROFESSIONAL CRAIG WHITE
H. Craig White, P.E.
02/16/2024

ROOF FRAMING PLAN

S2.03

2/14/2024 9:53:16 AM

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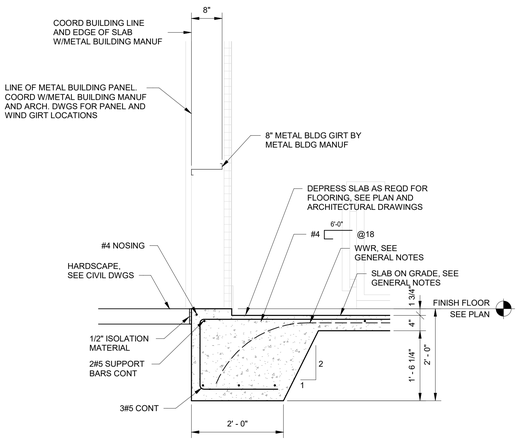
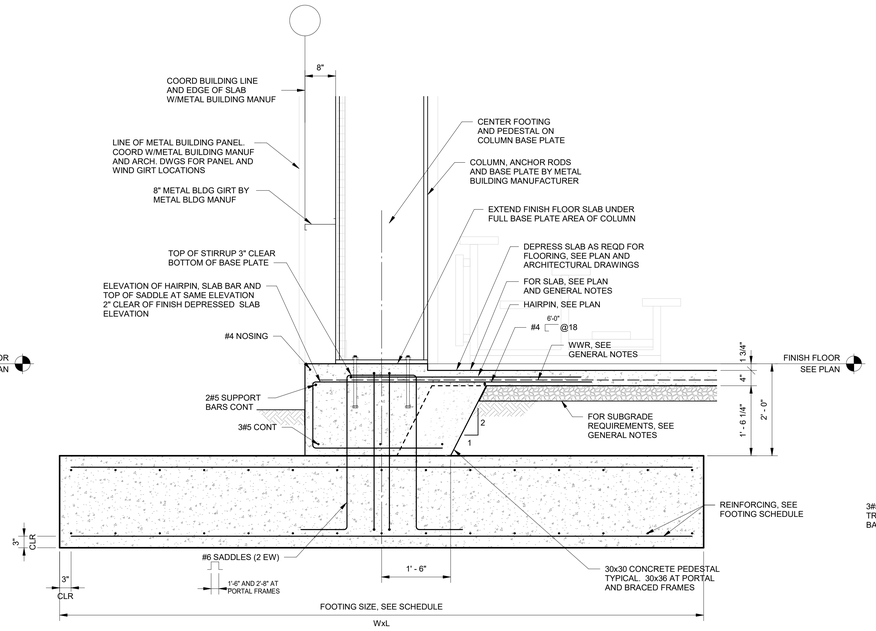



SECTION 1 S3.01
3/4" = 1'-0"

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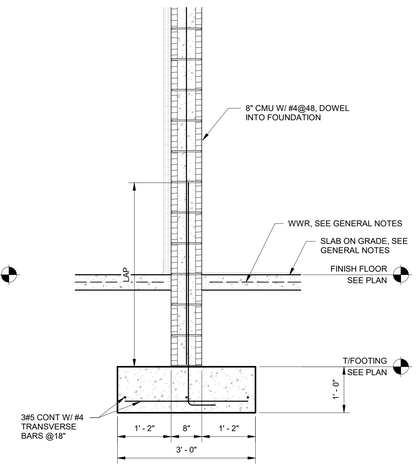


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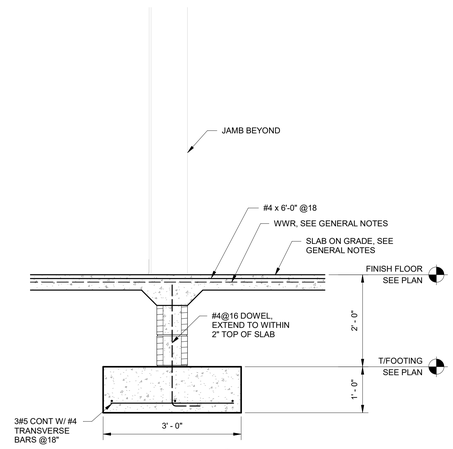


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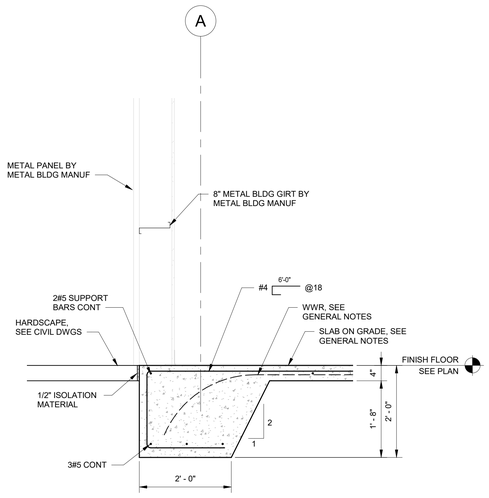


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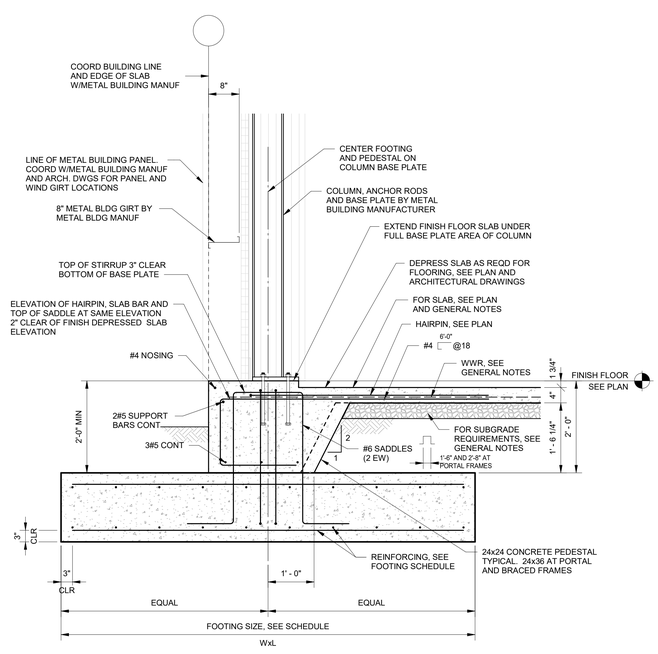


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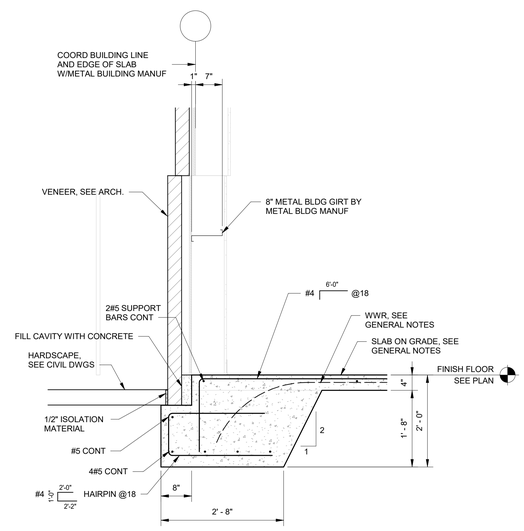


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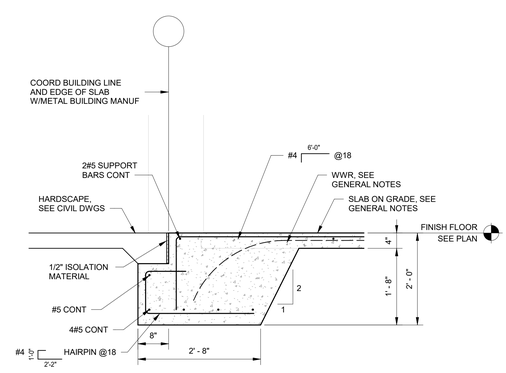


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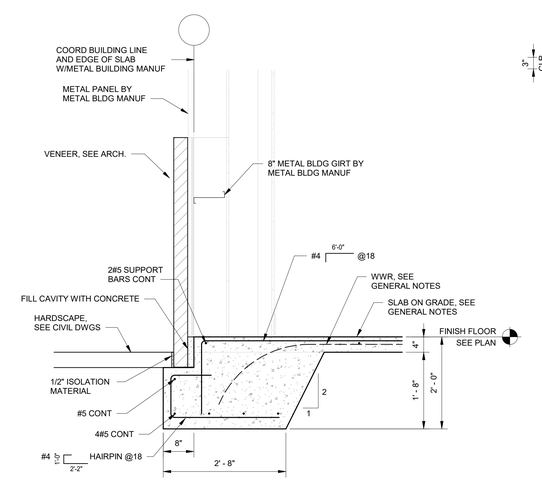


SECTION 9 S3.01
3/4" = 1'-0"

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ALABAMA REGISTERED No. 22506 PROFESSIONAL ENGINEER CRAIG WILLIAMS
02/16/2024

**SECTIONS**

S3.01

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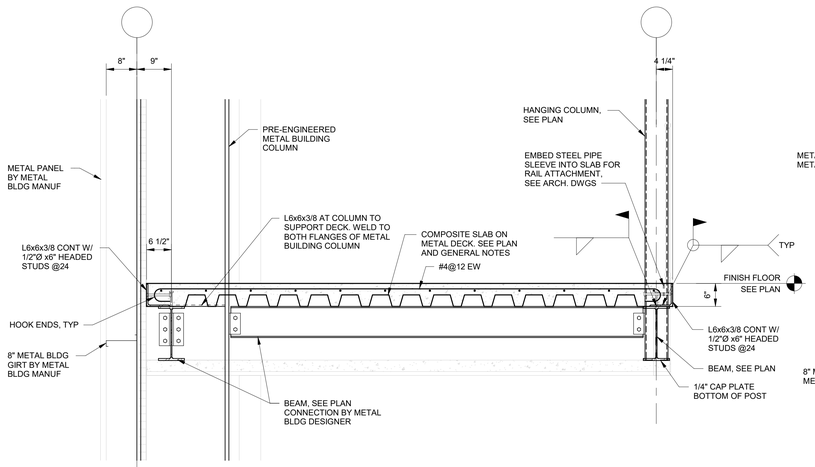


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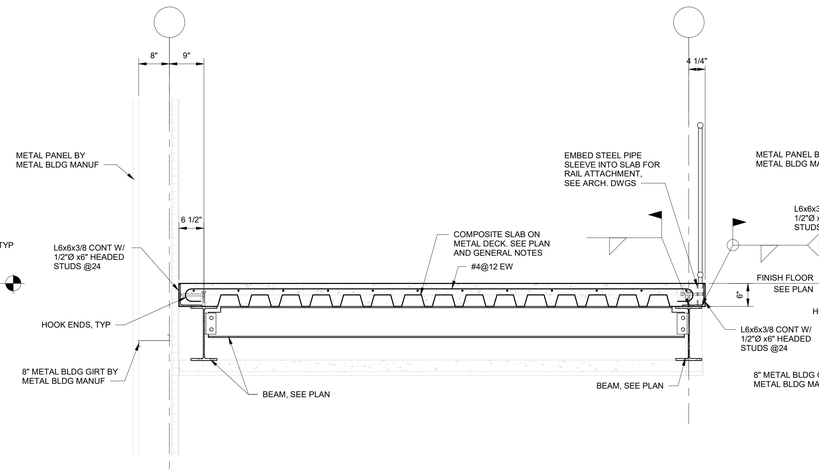


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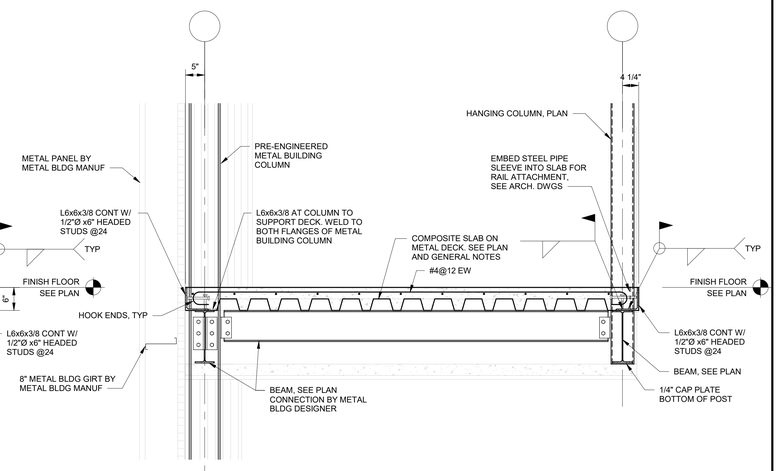


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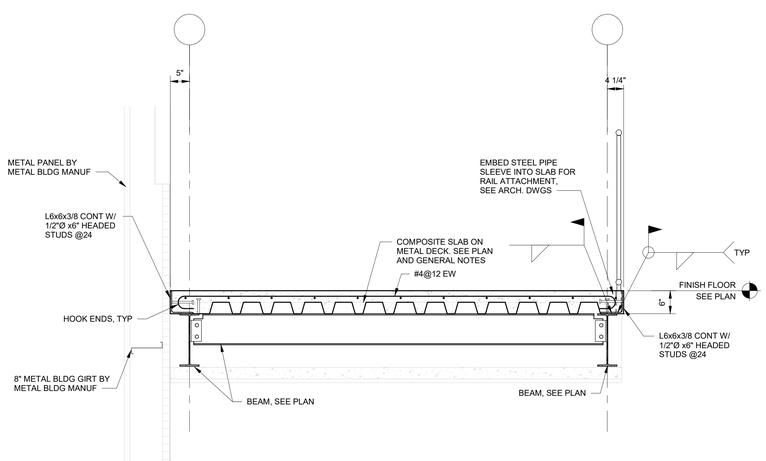


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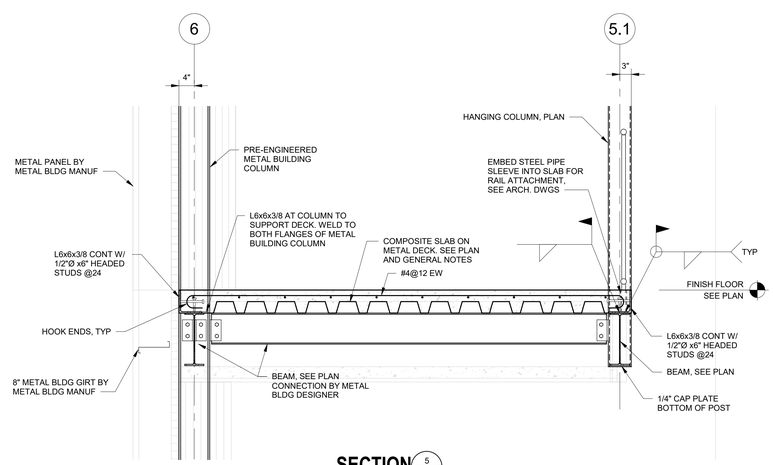


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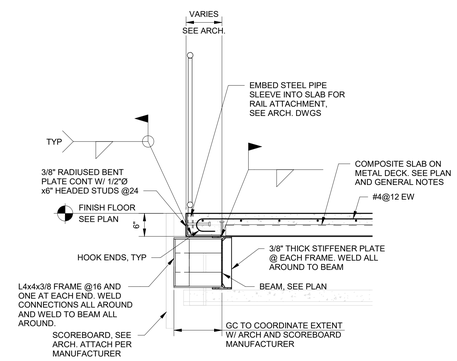


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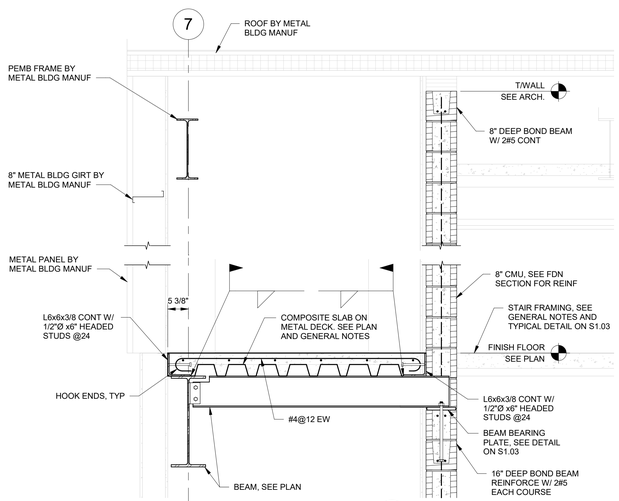


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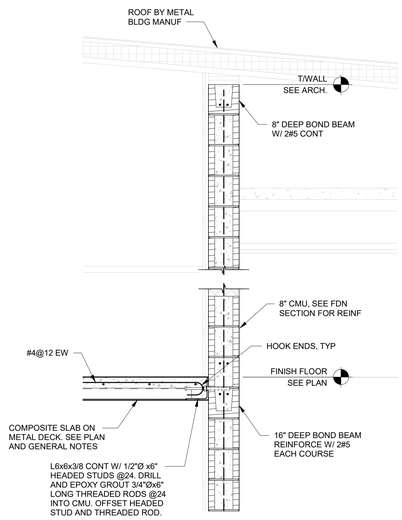


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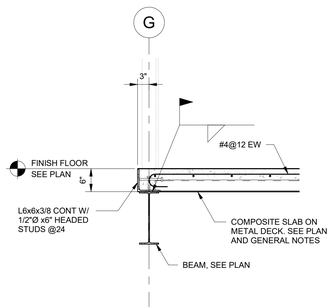


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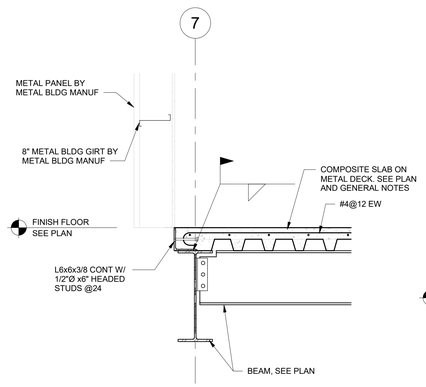


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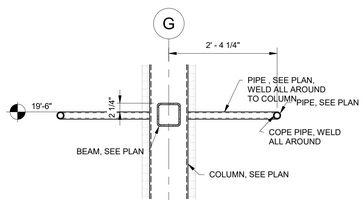


SECTION 11/S3.02
3/4" = 1'-0"

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WILSON
Craig Wilson P.E.
02/16/2024

SECTIONS

S3.02

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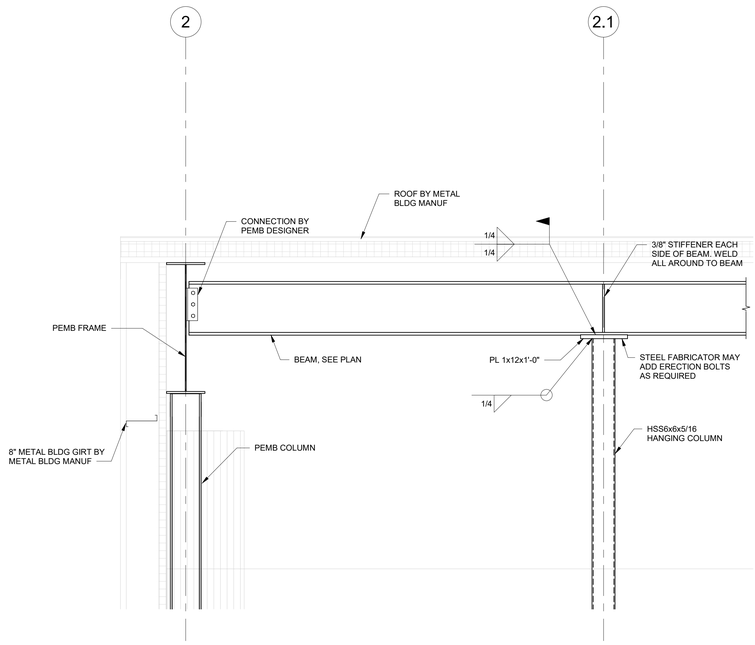
Job Number **23-232**




**SECTION** 1 / S3.03
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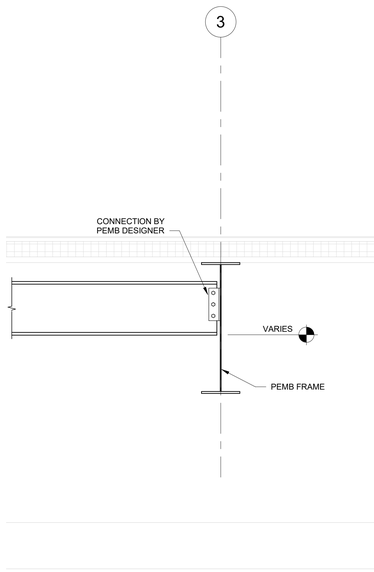


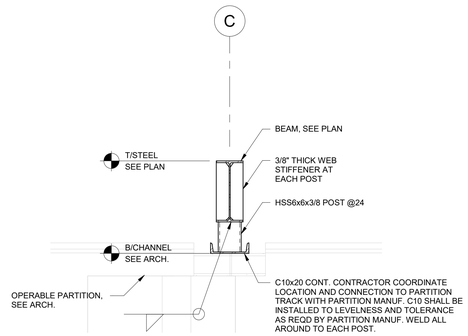


**SECTION** 2 / S3.03
3/4" = 1'-0"

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02/16/2024
P.E.

**SECTIONS**

# S3.03

2/14/2024 9:53:19 AM

# HVAC DUCTWORK & PIPING LEGEND

- NEW DUCTWORK
- NEW PIPING
- CEILING RETURN GRILLE 24X24 CUBE CORE
- LOUVERED FACE CEILING DIFFUSER
- CEILING RETURN OR EXHAUST, REGISTER OR GRILLE
- LAY-IN LOUVERED FACE CEILING DIFFUSER
- SR — SIDEWALL SUPPLY REGISTER
- SUPPLY AIR DUCT SECTION
- RETURN OR EXHAUST AIR DUCT SECTION
- ROUND, 90° ELBOW
- ROUND, 45° ELBOW
- RECTANGULAR, 90° ELBOW WITH TURNING VANES
- RECTANGULAR, 45° ELBOW
- DUCT TURNING DOWN
- DUCT TURNING UP
- RISE OR DROP IN DUCT
- FD — FIRE DAMPER (RATING EQUAL TO WALL RATING) (PROVIDE ACCESS DOOR IN DUCT) (RUSKIN DIBD2 OR EQUAL)
- MD — MANUAL DAMPER (RECT. = RUSKIN MD25 OR EQUAL, RND. = RUSKIN MDRS25 OR EQUAL)
- AD — AUTOMATIC DAMPER (RUSKIN CD50 OR EQUAL)
- MD — RECTANGULAR BRANCH OFF RECTANGULAR DUCT WITH MANUAL DAMPER
- FLEXIBLE DUCT

# GENERAL NOTES:

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SUBJECT TO REQUIREMENTS OF ARCHITECTURAL DRAWINGS AND CONDITIONS EXISTING IN THE FIELD. MECHANICAL DRAWINGS INDICATE GENERALLY THE LOCATION OF COMPONENTS AND ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE WORK TO BE PERFORMED.
2. FOLLOW THE DRAWINGS CLOSELY, COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS OF SYSTEM COMPONENTS.
3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
4. MAKE NO CHANGES WITHOUT THE ARCHITECT'S WRITTEN PERMISSION. IN CASE OF DOUBT, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING WITH WORK. FAILURE TO FOLLOW THIS INSTRUCTION SHALL MAKE THE CONTRACTOR LIABLE FOR DAMAGE TO OTHER WORK AND RESPONSIBLE FOR REMOVING AND REPAIRING DEFECTIVE OR MISLOCATED WORK IN PROPER MANNER.
5. DO NOT SCALE DRAWINGS TO LOCATE DIFFUSERS AND EQUIPMENT. COORDINATE WITH NEW AND EXISTING LIGHTING, ELECTRICAL CONDUIT, AND ALL EXISTING FIELD CONDITIONS.
6. VERIFY ALL EQUIPMENT VOLTAGES WITH ELECTRICAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO ORDERING EQUIPMENT.
7. PROTECT MECHANICAL EQUIPMENT FROM DAMAGE DURING CONSTRUCTION. WHEN INSTALLATION IS COMPLETE, CLEAN EQUIPMENT AS REQUIRED.
8. INSTALL ALL EQUIPMENT TO PROVIDE NORMAL SERVICE ACCESS TO ALL COMPONENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. IF MANUFACTURER'S INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING.
9. FURNISH ACCESS DOORS FOR VALVES, FIRE DAMPERS, DAMPERS, CONTROLS, AIR VENTS, TRAP CLEAN OUTS, AND OTHER ITEMS LOCATED ABOVE NON-LIFTOUT CEILINGS OR BEHIND PARTITIONS OR WALLS. PROVIDE FIRE DAMPERS IN DUCTWORK, GRILLES, AND REGISTERS WITH FIRE RATING EQUAL TO RATING OF WALL OR CEILING. ALL FIRE DAMPERS MAY OR MAY NOT BE SHOWN ON MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL FIRE RATED WALL AND CEILING LOCATIONS AND RATINGS WITH ARCHITECTURAL DRAWINGS.
10. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS (SEE SPECIFICATIONS).

# AIR DEVICE LEGEND

| MARK | DESCRIPTION | (X) SQUARE NECK SIZE: NECK SIZE | (X) SQUARE NECK SIZE: ROUND RUNOUT | MODEL # |
|---|---|---|---|---|
| LD(X) | LOUVER FACE 24"X24" LAY-IN CEILING DIFFUSER. 4-WAY THROW UNLESS NOTED OTHERWISE. CFM SHOWN. | 6 X 6<br>9 X 9<br>12 X 12<br>15 X 15<br>18 X 18 | 6"Ø<br>8"Ø<br>10"Ø<br>12"Ø<br>14"Ø | TITUS TDC-AA |
| SD(X) | SAME AS LD, SURFACE MOUNTED. | SQUARE NECK SIZE | | TITUS TDC-AA |
| E(X) | CEILING EXHAUST GRILLE. 1/2" X 1/2" X 1/2" ALUMINUM CORE | SQUARE NECK SIZE | | TITUS 50F |
| R(X) | CEILING RETURN GRILLE. 1/2" X 1/2" X 1/2" ALUMINUM CORE | SQUARE NECK SIZE | | TITUS 50F |
| WRR | WALL RETURN REGISTER, SIZE AND CFM SHOWN. | --- | | TITUS 350 |
| DWTG | DOUBLE WALL TRANSFER GRILLE. SIZE AND CFM SHOWN. | --- | | TITUS 350 |
| DL | DRUM LOUVER. SIZE AND CFM SHOWN. | --- | | TITUS DL |

# INDOOR - DUCTLESS SPLIT SYSTEM

| MARK | AREA SERVED | TYPE | OUTDOOR UNIT | CFM | CAPACITY (MBH) COOLING @ 95°F | CAPACITY (MBH) HEATING @ 47°F | ACCESSORIES | SEER | DESIGN BASIS MODEL |
|---|---|---|---|---|---|---|---|---|---|
| AC-1A | LOBBY ENTRY- 100 | C | HP-1 | 775 | 29.4 | 22.3 | 1 2 | 17.0 | TRANE TPEADA0301AA80A |
| AC-1B | LOBBY ENTRY- 100 | C | HP-1 | 775 | 29.4 | 22.3 | 1 2 | 17.0 | TRANE TPEADA0301AA80A |
| AC-2 | OFFICE - 102 | C | HP-2 | 270 | 8.9 | 6.8 | 1 2 | 18.8 | TRANE NTXDKS09A112AA |
| AC-3 | WOMEN - 103 | B | HP-3 | 800 | 23.7 | 16.2 | 1 2 | 24.7 | TRANE TPLA0A0241EA80A |
| AC-4 | MEN - 105 | B | HP-4 | 460 | 11.9 | 8.7 | 1 2 | 26.9 | TRANE TPLA0A0121EA80A |
| AC-5 | CONCESSION STORAGE - 115, CONCESSION - 116 | C | HP-5 | 270 | 11.9 | 8.5 | 1 2 | 20.5 | TRANE NTXDKS12A112AA |
| AC-6 | MULTI-PURPOSE ROOM - B - 112 | B | HP-6 | 770 | 23.7 | 16.2 | 1 2 | 24.7 | TRANE TPLA0A0241EA80A |
| AC-7 | MULTI-PURPOSE ROOM - A - 111 | B | HP-7 | 700 | 23.7 | 16.2 | 1 2 | 24.7 | TRANE TPLA0A0241EA80A |
| AC-8 | KITCHEN - 110 | B | HP-8 | 400 | 11.9 | 8.7 | 1 2 | 26.9 | TRANE TPLA0A0121EA80A |
| AC-9 | STORAGE - 108 | B | HP-9 | 400 | 11.9 | 8.7 | 1 2 | 26.9 | TRANE TPLA0A0121EA80A |
| AC-DATA | DATA - 118 | A | CU-ELEC | 775 | 23.7 | --- | 1 2 | 21.3 | TRANE TPKA0A0241KA80A |
| AC-ELEC | ELECTRICAL - 104 | A | CU-ELEC | 775 | 23.7 | --- | 1 2 | 21.3 | TRANE TPKA0A0241KA80A |

TYPES:

- A WALL MOUNTED CASSETTE UNIT
- B CEILING MOUNTED CASSETTE UNIT
- C CEILING-CONCEALED DUCTED UNIT

ACCESSORIES:

- 1 WIRED THERMOSTAT
- 2 SINGLE POINT POWER CONNECTION AT OUTDOOR UNIT

# OUTDOOR - DUCTLESS SPLIT SYSTEM

| MARK | COOLING TOTAL MBH | HEATING TOTAL MBH | UNIT TYPE | CIRCUIT BREAKER CAPACITY (AMPS) | MIN. CIRCUIT AMPS | MOTOR V/Φ/Hz | DESIGN BASIS MODEL |
|---|---|---|---|---|---|---|---|
| HP-1 | 59.6 | 44.5 | HEAT PUMP | 55 | 46 | 208/1/60 | TRANE NTXMSM60A182BA |
| HP-2 | 8.9 | 6.8 | HEAT PUMP | 16 | 9 | 208/1/60 | TRANE NTXSKS09A112AA |
| HP-3 | 23.7 | 16.2 | HEAT PUMP | 26 | 19 | 208/1/60 | TRANE TRUZA0241HA70NA |
| HP-4 | 11.9 | 8.7 | HEAT PUMP | 28 | 11 | 208/1/60 | TRANE TRUZA0121KA70NA |
| HP-5 | 11.9 | 8.5 | HEAT PUMP | 16 | 9 | 208/1/60 | TRANE NTXSKS12A112AA |
| HP-6 | 23.7 | 16.2 | HEAT PUMP | 26 | 19 | 208/1/60 | TRANE TRUZA0241HA70NA |
| HP-7 | 23.7 | 16.2 | HEAT PUMP | 26 | 19 | 208/1/60 | TRANE TRUZA0241HA70NA |
| HP-8 | 11.9 | 8.7 | HEAT PUMP | 28 | 11 | 208/1/60 | TRANE TRUZA0121KA70NA |
| HP-9 | 11.9 | 8.7 | HEAT PUMP | 28 | 11 | 208/1/60 | TRANE TRUZA0121KA70NA |
| CU-DATA | 23.7 | --- | COOLING ONLY | 26 | 19 | 208/1/60 | TRANE TRUYA0241HA70NA |
| CU-ELEC | 23.7 | --- | COOLING ONLY | 26 | 19 | 208/1/60 | TRANE TRUYA0241HA70NA |

NOTES:

SINGLE POINT POWER.
MOUNT OUTDOOR UNIT ON MANUFACTURER RECOMMENDED PLATFORM STANDS.
PROVIDE ALUMINUM JACKET ON OUTDOOR REFRIGERANT PIPING.
PROVIDE A 1-YEAR MANUFACTURER LABOR WARRANTY.

# AIR HANDLING UNITS

| MARK | TYPE | SUPPLY FAN CFM | SUPPLY FAN "W.G. TOT. S.P. | SUPPLY FAN TYPE | SUPPLY FAN MAXIMUM OSA CFM | SUPPLY FAN MOTOR HP | SUPPLY FAN MOTOR V/Φ/Hz | COOLING COIL CFM | COOLING COIL AIR ENT. °FDB | COOLING COIL AIR ENT. °FWB | COOLING COIL AIR LVG. °FDB | COOLING COIL AIR LVG. °FWB | COOLING COIL MBH TOTAL | COOLING COIL MBH SENS. | COOLING COIL MAX. F.V. FPM | ELECTRIC HEATING CFM | ELECTRIC HEATING MBH | ELECTRIC HEATING KW | ELECTRIC HEATING AIR ENT °F | ELECTRIC HEATING V/Φ/Hz | MCA | MOCP | FILTERS | ACCESSORIES | DESIGN BASIS TRANE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | B | 18,700 | 3.860" | FC FAN | 1,870 | 25 | 460/3/60 | 18,700 | 77.04 | 63.74 | 53.53 | 53.45 | 544.7 | 458.4 | 500 | 18,700 | 359.9 | 108 | 64.6 | 460/3/60 | 170 | 175 | A | 1 2 3 4 | TEH600 |
| AHU-2 | B | 19,400 | 3.976" | FC FAN | 1,940 | 25 | 460/3/60 | 19,400 | 77.04 | 63.74 | 53.88 | 53.80 | 547.6 | 468.6 | 500 | 19,400 | 356.0 | 108 | 64.6 | 460/3/60 | 170 | 175 | A | 1 2 3 4 | TEH600 |

TYPES:

- A FACTORY FABRICATED, DOUBLE WALL, VARIABLE VOLUME, HORIZONTAL DRAW THROUGH WITH INTERNAL FAN ISOLATION.
- B FACTORY FABRICATED, DOUBLE WALL, CONSTANT VOLUME, HORIZONTAL DRAW THROUGH WITH INTERNAL FAN ISOLATION.
- C FACTORY FABRICATED, DOUBLE WALL, VARIABLE VOLUME, VERTICAL DRAW THROUGH WITH INTERNAL FAN ISOLATION.
- D FACTORY FABRICATED, DOUBLE WALL, CONSTANT VOLUME, VERTICAL DRAW THROUGH WITH INTERNAL FAN ISOLATION.

FILTERS: (SEE SPECS.)

- A 2", HIGH EFFICIENCY MERV 8 FILTERS

ACCESSORIES:

- 1 VARIABLE SPEED DRIVE WITH INVERTER DUTY RATED MOTOR.
- 2 INSULATED DOUBLE CONSTRUCTION DRAIN PANS WITH TYPE 304 STAINLESS STEEL INNER PAN.
- 3 MIXING BOX WITH OPPOSED BLADE AUTOMATIC DAMPERS.
- 4 MARINE LIGHTS IN ALL ACCESSIBLE SECTIONS (FACTORY MOUNTED SWITCH).

NOTES:

- A SCHEDULED SUPPLY FAN PRESSURE DROPS INCLUDE THE FOLLOWING AIR PRESSURE DROP IN "WG":
  COOLING COIL: 1.0"
  HEATING COIL: 0.25"
  FILTER: 1.00" (CHANGEOUT)
- B MAXIMUM COOLING COIL WATER PRESSURE DROP = 15 FT.
- C MAXIMUM HEATING COIL WATER PRESSURE DROP = 10 FT.
- D SCCR RATING: 5000 AMPS

# BRANCH CONTROLLERS - VRF SYSTEM

| MARK | UNIT TYPE | BRANCH QUANTITY | ELECTRICAL V/Φ/Hz | ELECTRICAL MCA | ELECTRICAL MOCP | ESTIMATED WEIGHT | DESIGN BASIS MODEL |
|---|---|---|---|---|---|---|---|
| BC-1 | HEAT PUMP | 3 | 208/1/60 | 1.0 | 15 | 15 LBS. | TRANE TAC-MKA32BC |

NOTES (APPLIES TO ALL CONTROLLERS)

1. PROVIDE AND INSTALL FACTORY BALL VALVES ON ALL PORTS.
2. ALL UNITS SHALL FULLY INTEGRATE TO CENTRAL CONTROLLER AND BUILDING DDC CONTROLS SYSTEM.
3. ALL PORTS OF BRANCH CONTROLLER SHALL BE LABELED AND IDENTIFIED WITH CONNECTED AC UNIT.
4. INSTALL BRANCH CONTROLLERS AS REQUIRED TO PROVIDE ALL RECOMMENDED CLEARANCES.

# ELECTRIC WALL HEATERS

| MARK | CAPACITY (kW) | QUANTITY | AMPS | ELECT. V/Φ/Hz | ACCESSORIES | DESIGN BASIS |
|---|---|---|---|---|---|---|
| EWH-1 | 5.0 | 2 | 18.1 | 277/1/60 | 1 | MARKEL - SERIES 3420 |

HEATER ACCESSORIES:

- 1 PROVIDE WALL MOUNTED THERMOSTAT, MOUNTING FRAME, DISCONNECT, HORIZONTAL LOUVERS, CONTACTORS, FUSING, AND CONTROL TRANSFORMER. ALL ELECTRICAL COMPONENTS SHALL BE WIRED TO A SINGLE POINT POWER CONNECTION.

HEATER NOTES:

1. CONTRACTOR TO PROVIDE ALL CONTROL WIRING IN CONDUIT AND CONTROL ACCESSORIES AS REQUIRED FOR CONNECTING WALL MOUNTED THERMOSTATS.

# ENERGY RECOVERY UNIT (ERU)

| MARK | SUPPLY FAN CFM | SUPPLY FAN E.S.P. W.G. | SUPPLY FAN FAN H.P. | EXHAUST FAN CFM | EXHAUST FAN E.S.P. W.G. | EXHAUST FAN FAN H.P. | SUMMER PERFORMANCE OSA ENT. °FDB | SUMMER OSA ENT. °FWB | SUMMER EXHAUST AIR °FDB | SUMMER EXHAUST AIR °FWB | SUMMER SUPPLY AIR °FDB | SUMMER SUPPLY AIR °FWB | SUMMER EFFECTIVENESS | WINTER PERFORMANCE OSA ENT. °FDB | WINTER EXHAUST AIR °FDB | WINTER SUPPLY AIR °FDB | WINTER EFFECTIVENESS | ELECTRIC HEATING V/Φ/Hz | ELECTRIC HEATING AIR ENT. | ELECTRIC HEATING MBH | ELECTRIC HEATING KW | ELECTRIC HEATING MCA | ELECTRIC HEATING MOCP | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERU-GYM | 11,210 | 1.0 | 2 @ 5 | 11,210 | 0.5 | 2 @ 3 | 95 | 78.5 | 88.1 | 71.4 | 81.9 | 70.9 | 51.4% | 19.6 | 37.6 | 54.0 | 60.5% | 460/3/60 | 54°F | 273.4 | 80 | 128.8 | 150 | VALENT VXC-352-PH-50I-1-D2 |

NOTES:

1. UL-LISTED
2. 2" THICK MERV 8 FILTER
3. LOW LEAKAGE DAMPER
4. ECONOMIZER BMS CONTROL (BACNET INTEGRAL MTSP)
5. VFD FOR FAN BALANCING SUPPLY AND EXHAUST FANS
6. SINGLE POINT POWER CONNECTION
7. FUSED DISCONNECT

# FANS

| MARK | SERVES | TYPE | CFM | E.S.P. (IN. WG) | MIN. WHEEL SIZE (IN.) | MOTOR HP | MOTOR V/Φ/Hz | ACCESSORIES | INTERLOCK W/ | DESIGN BASIS |
|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | MEN - 105 | F | 500 | 0.5 | 10 | 1/6 | 120/1/60 | 5 | LIGHT SWITCH | LOREN COOK - SQN-D |
| EF-2 | WOMEN - 103 | F | 950 | 0.5 | 13.5 | 1/6 | 120/1/60 | 5 | LIGHT SWITCH | LOREN COOK - SQN-D |
| EF-3 | JANITOR - 106 | H | 75 | 0.5 | N/A | 36.7w | 120/1/60 | 6 | LIGHT SWITCH | LOREN COOK - GC-148 |
| EF-4 | CONCESSION - 116 | H | 250 | 0.5 | N/A | 90.3w | 120/1/60 | 6 | LIGHT SWITCH | LOREN COOK - GC-542 |
| EF-5 | KITCHEN - 110 | F | 500 | 0.5 | 10 | 1/6 | 120/1/60 | 5 | LIGHT SWITCH | LOREN COOK - SQN-D |

FAN TYPES:

- A CENTRIFUGAL ROOF EXHAUSTER DIRECT DRIVE
- B CENTRIFUGAL ROOF EXHAUSTER BELT DRIVE
- C PROPELLER EXHAUST FAN DIRECT DRIVE
- D PROPELLER EXHAUST FAN BELT DRIVE
- E CENTRIFUGAL VENT SET, BELT DRIVE
- F IN-LINE CENTRIFUGAL DIRECT DRIVE
- G IN-LINE CENTRIFUGAL BELT DRIVE
- H CENTRIFUGAL CEILING EXHAUST FAN

FAN ACCESSORIES:

- 1 BIRDSCREEN, ROOF CURB (MINIMUM 8" ABOVE INSULATION), BACKDRAFT DAMPER, DISCONNECT SWITCH.
- 2 MOTOR SIDE GUARD, GRAVITY SHUTTER.
- 3 SPRING ISOLATORS, TWO SPEED (1800/900 RPM) MOTOR, QUICK OPENING ACCESS DOOR DRAIN, GRAVITY DISCHARGE SHUTTER, MOTOR AND DRIVE WEATHER HOOD.
- 4 FLEXIBLE CONNECTORS, RUBBER-IN-SHEAR ISOLATORS, SOLID STATE SPEED CONTROL, DISCONNECT SWITCH AND BACKDRAFT DAMPER.
- 5 FLEXIBLE CONNECTORS, SPRING ISOLATORS, DISCONNECT SWITCH, AND BACKDRAFT DAMPER.
- 6 REMOVABLE ALUMINUM CEILING GRILLE, BACKDRAFT DAMPER, SPEED CONTROLLER, RUBBER-IN-SHEAR ISLOATORS, DISCONNECT SWITCH.

# DEDICATED OUTDOOR AIR SYSTEM (100% OSA)

| MARK | TYPE | CFM | SUPPLY FAN IN WG E.S.P. | SUPPLY FAN MOTOR HP | OSA CFM | COOLING COIL TOT CAP | COOLING COIL SENS CAP | COOLING COIL ENT AIR DB/WB | COOLING COIL LVG AIR DB/WB | ACCESSORIES | ELECTRICAL HEATING MBH | ELECTRICAL HEATING KW | ELECTRICAL HEATING MCA | ELECTRICAL HEATING MOCP | ELECTRICAL HEATING V/Φ/Hz | BASIS OF DESIGN AAON |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOAS-1 | A | 1,000 | 0.8 | 1.0 | 1,000 | 83.3 | 44.3 | 95°F/78°F | 52.9°F/52.2°F | 1 2 | 47.8 | 14.0 | 23 | 25 | 460/3/60 | V3-BRB-3-0-162C-7BS |

UNIT TYPES:

- A MODULAR, CONSTANT VOLUME, VERTICAL DRAW THROUGH WITH INTERNALLY ISOLATED FAN

ACCESSORIES:

- 1 POWERED CONVENIENCE OUTLET.
- 2 PROVIDE HOT GAS REHEAT
- 3 VARIABLE SPEED DRIVE WITH INVERTED DUTY RATED MOTOR FOR FAN BALANCING

GENERAL NOTES:

- 1 MAXIMUM COIL AIR PRESSURE DROP = 1.0" WGSP.
- 2 FAN TO BE INTERNALLY ISOLATED.
- 3 MAX. COIL FACE VELOCITY = 500 FPM.
- 4 ESP DOES NOT INCLUDE PRESSURE DROP FOR INTERNAL UNIT COMPONENTS. SELECT FILTER PRESSURE DROP AT MID-LIFE CONDITION.
- 5 2" THICK PLEATED FILTERS

# CONDENSING UNITS (AIR COOLED)

| MARK | SERVES | ACCESSORIES | ELECT. V/Φ/Hz | MCA | MOCP | NOMINAL TONS | BASIS OF DESIGN AAON |
|---|---|---|---|---|---|---|---|
| CU-1 | DOAS-1 | 1 2 3 4 5 | 460/3/60 | 23 | 30 | 9 | CFA-009-B-A-3-DJ00L |

NOTES

- A CAPACITY TO BALANCE RESPECTIVE TO DOAS-1.
- B CAPACITY BASED ON 95°F AMBIENT AND 2°F SUCTION LINE LOSS.
- C MINIMUM SEER/EER AT ARI CONDITIONS.

ACCESSORIES

- 1 HOT GAS BY-PASS
- 2 HEAD PRESSURE CONTROL TO 10°F AMBIENT.
- 3 ANTI-CYCLE RELAY
- 4 50% CAPACITY REDUCTION CONTROL
- 5 CONDENSER COIL GUARD


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ALABAMA No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS III
2/16/24

GMC AHUN230008

HVAC SCHEDULES, NOTES, AND LEGENDS

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# OUTSIDE AIR CALCULATIONS (ERU-1)

| OCCUPANCY CATEGORY | PEOPLE ($P_z$) | AREA ($A_z$) | CFM / P ($R_p$) | CFM / SF ($R_a$) | UNCORRECTED OSA |
|---|---|---|---|---|---|
| 107 - Gym A | 75 | 10,367 S.F. | 20.0 | 0.18 | 3,367 CFM |
| 109 - Gym A | 75 | 10,367 S.F. | 20.0 | 0.18 | 3,367 CFM |
| 201 - Hall | 0 | 566 S.F. | 0.0 | 0.06 | 34 CFM |
| 202 - Attic | 0 | 1,932 S.F. | 5.0 | 0.12 | 232 CFM |
| 204 - Attic | 0 | 848 S.F. | 5.0 | 0.12 | 102 CFM |

| | |
|---|---|
| TOTAL SUPPLY AIR: ($V_{pz}$) | 11,210 CFM |
| TOTAL UNCORRECTED OSA: ($V_{ou}$) | 7,102 CFM |
| ZONE EFFECTIVENESS: ($E_z$) | 0.8 |
| VENTILATION EFFICIENCY: ($E_v$) | 1.0 |
| TOTAL CORRECTED OSA: ($V_{ot}$) | 8,878 CFM |
| TOTAL OSA PROVIDED: | 11,210 CFM |

NOTES

1. OUTSIDE AIR CALCS. BASED ON ASHRAE STANDARD 62.1-2010 & 2015 IMC, TABLE 403.3.
2. ZONE AIR DISTRIBUTION EFFECTIVENESS ($E_z$) IS 0.8 FOR CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE.

# OUTSIDE AIR CALCULATIONS (DOAS-1)

| OCCUPANCY CATEGORY | PEOPLE ($P_z$) | AREA ($A_z$) | CFM / P ($R_p$) | CFM / SF ($R_a$) | UNCORRECTED OSA |
|---|---|---|---|---|---|
| 100 - Lobby/Entry | 10 | 1,564 S.F. | 5.0 | 0.06 | 144 |
| 102 - Office | 2 | 118 S.F. | 5.0 | 0.06 | 18 |
| 102A - Office | 2 | 86 S.F. | 5.0 | 0.06 | 16 |
| 110 - Kitchen | 2 | 247 S.F. | 7.5 | 0.12 | 45 |
| 111 - Multipurpose Room A | 30 | 529 S.F. | 5.0 | 0.06 | 182 |
| 112 - Multipurpose Room B | 30 | 574 S.F. | 5.0 | 0.06 | 185 |
| 115 - Concession Storage | 0 | 102 S.F. | 5.0 | 0.12 | 13 |
| 116 - Concession | 3 | 171 S.F. | 7.5 | 0.06 | 33 |

| | |
|---|---|
| TOTAL SUPPLY AIR: ($V_{pz}$) | 1,000 CFM |
| TOTAL UNCORRECTED OSA: ($V_{ou}$) | 636 CFM |
| ZONE EFFECTIVENESS: ($E_z$) | 0.8 |
| VENTILATION EFFICIENCY: ($E_v$) | 1.0 |
| TOTAL CORRECTED OSA: ($V_{ot}$) | 795 CFM |
| TOTAL OSA PROVIDED: | 1,000 CFM |

NOTES

1. OUTSIDE AIR CALCS. BASED ON ASHRAE STANDARD 62.1-2010 & 2015 IMC, TABLE 403.3.
2. ZONE AIR DISTRIBUTION EFFECTIVENESS ($E_z$) IS 0.8 FOR CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE.


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2/16/24
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OUTSIDE AIR CALCULATIONS

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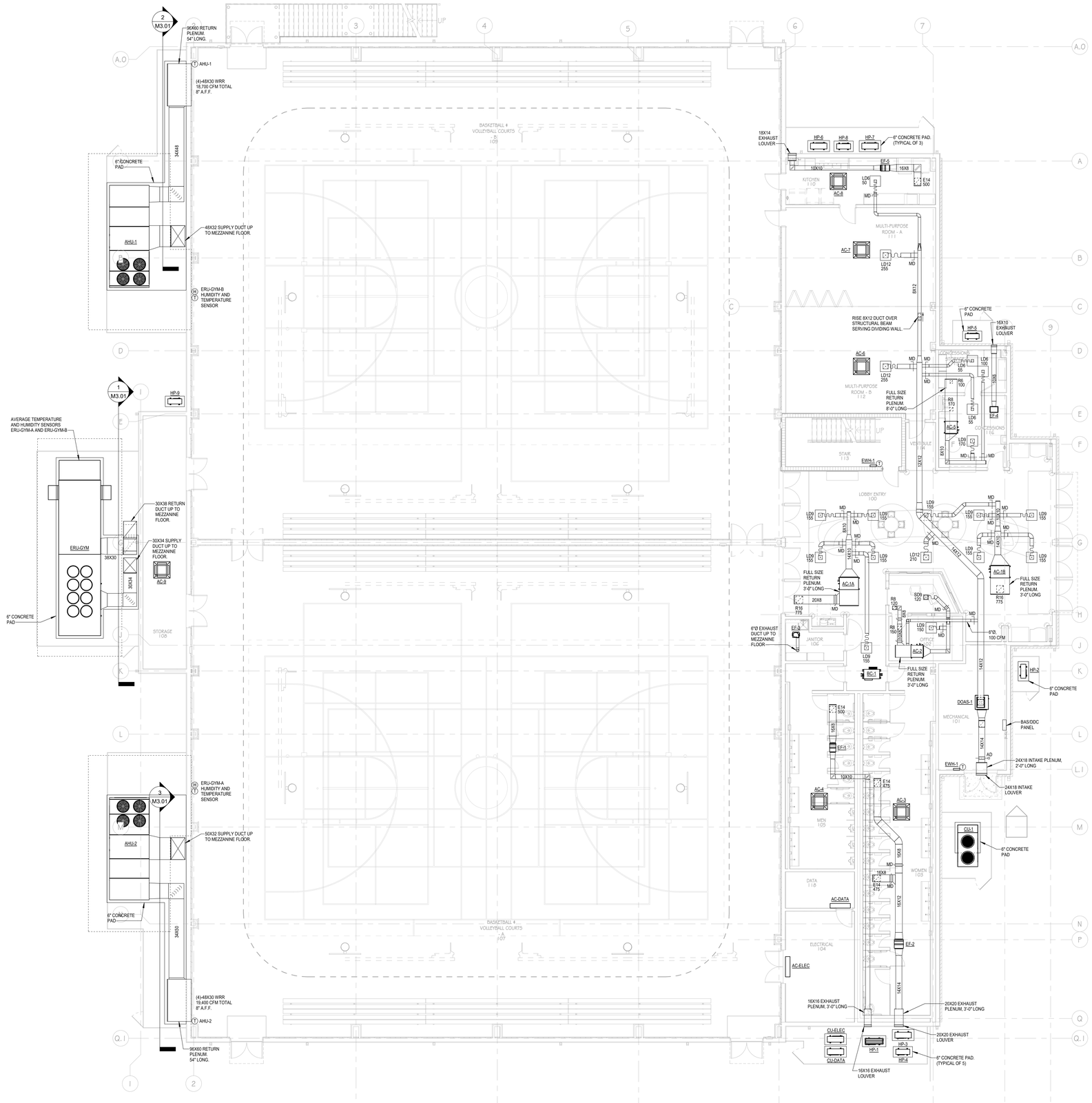


# 1 FIRST FLOOR HVAC PLAN

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

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FIRST FLOOR HVAC PLAN

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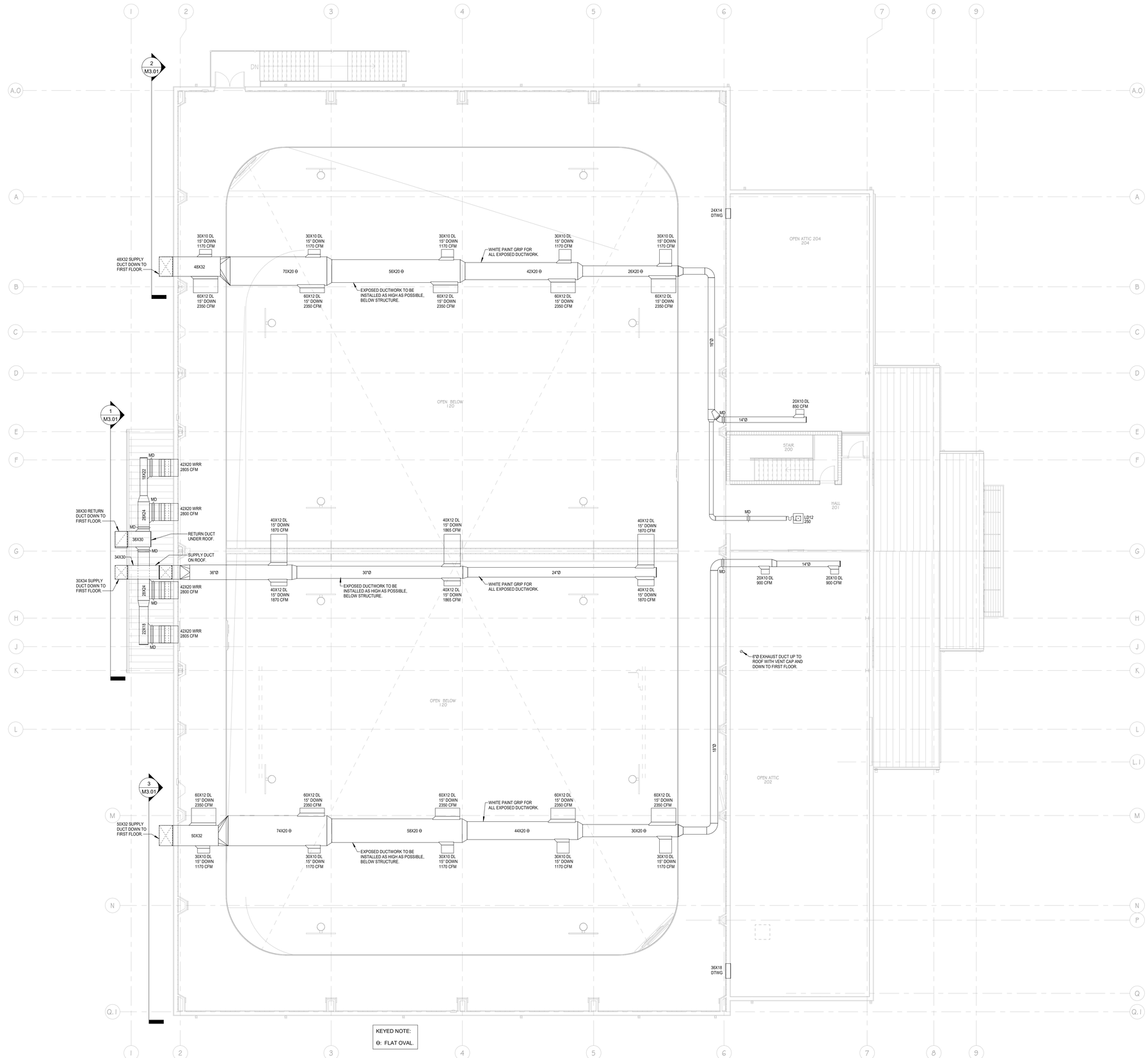


KEYED NOTE:

Θ: FLAT OVAL.

# 1 MEZZANINE FLOOR HVAC PLAN

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LACEYS SPRING, ALABAMA 35754

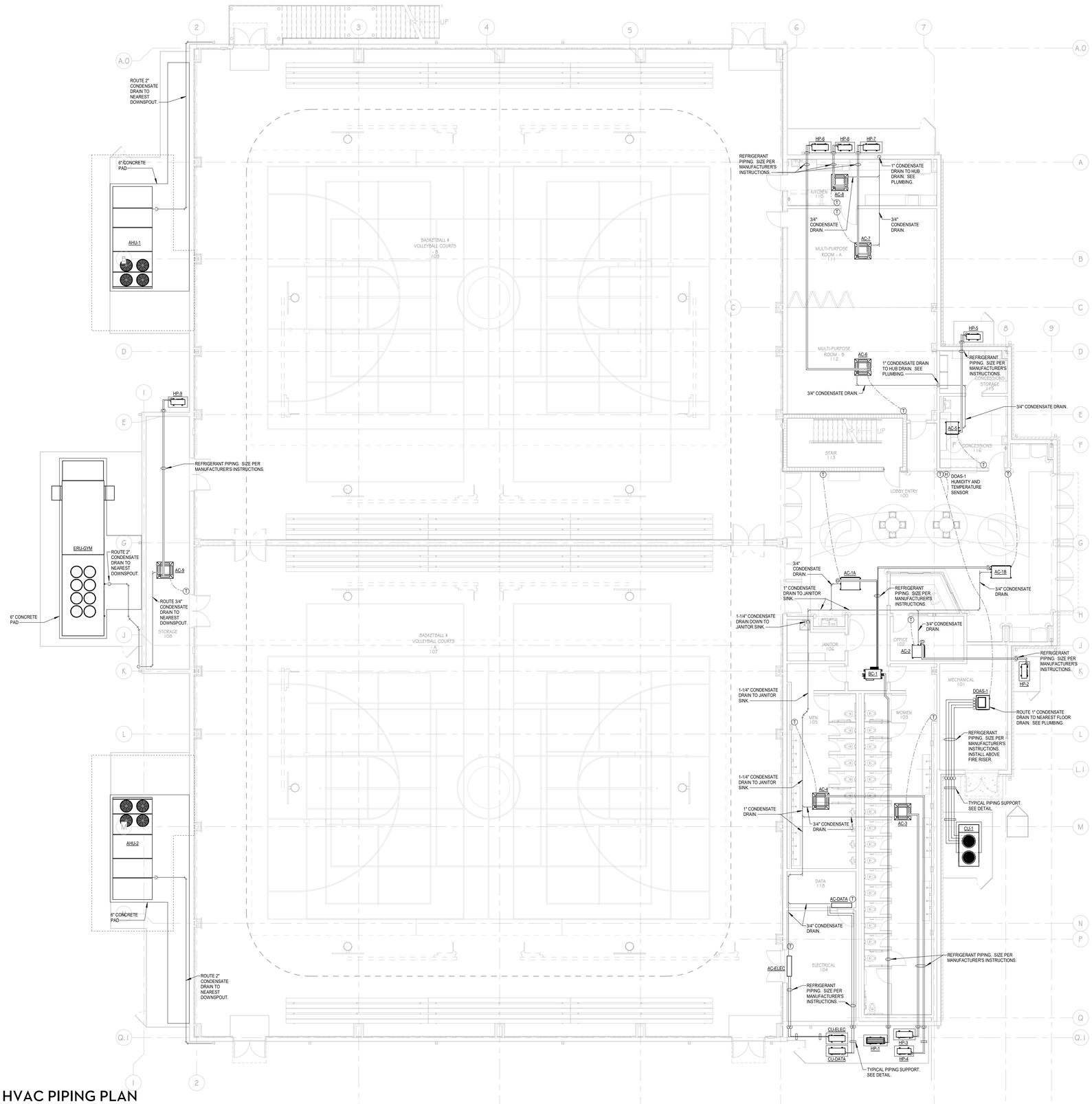
GMC AHUN230008

ALABAMA No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS, JR.
2/16/24
223184

**MEZZANINE FLOOR HVAC PLAN**

M1.02

MW / Davis Dumas & Associates, Inc.
CONSULTING ENGINEERS
4500 Southlake Park, Suite 200
Hoover, Alabama 35244
Phone: (205) 252-0246
www.mwdda.com
Project # 223184




## 1 FIRST FLOOR HVAC PIPING PLAN
SCALE: 1/8" = 1'-0"

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

Morgan County, Alabama

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**MORGAN COUNTY EVENT CENTER**
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

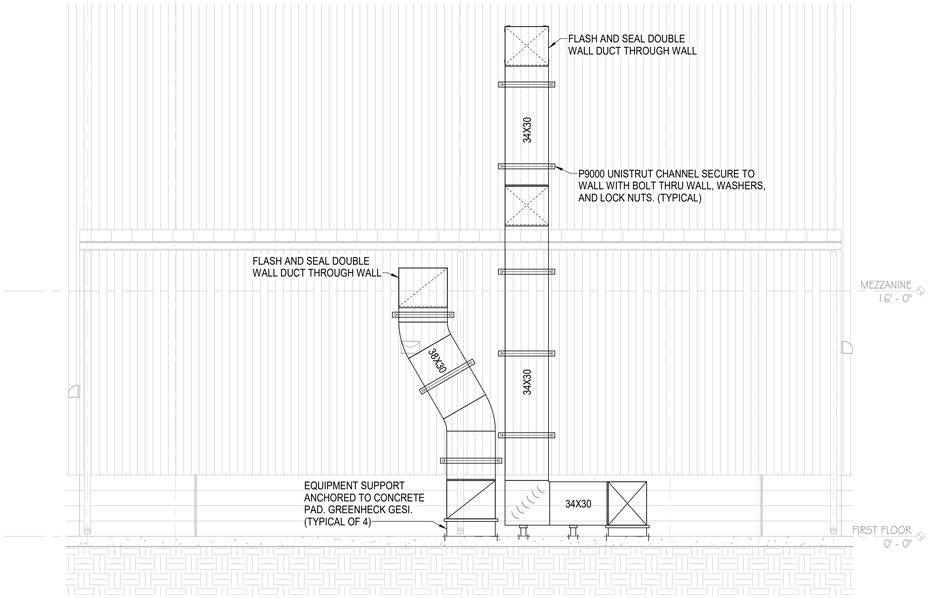
GMC AHUN230008

STATE OF ALABAMA
No. 14178
PROFESSIONAL ENGINEER
JAMES S. DAVIS
2/16/24
223184

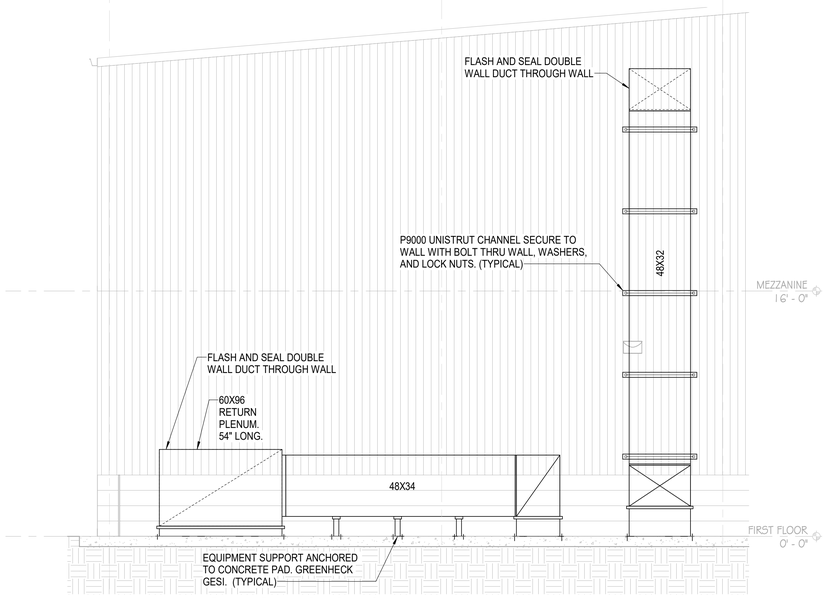
**FIRST FLOOR HVAC PIPING PLAN**

# M2.01

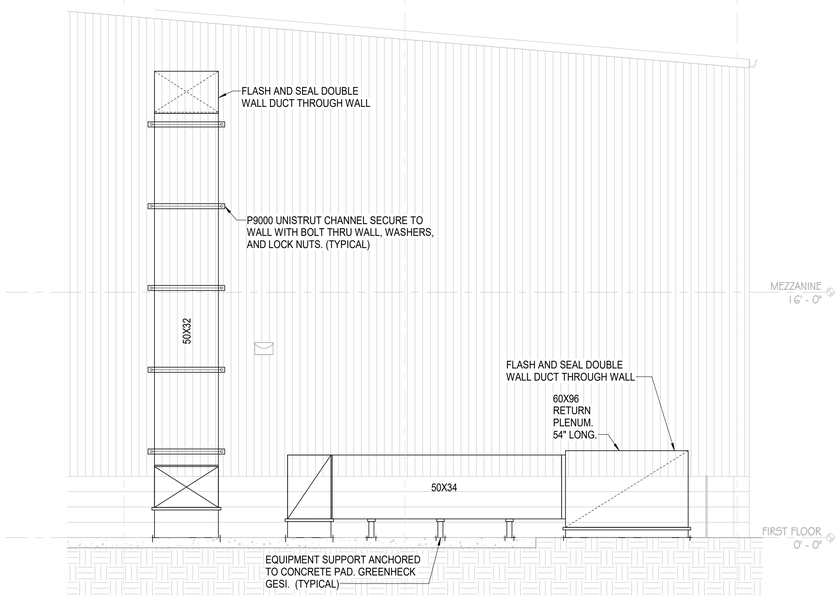
2/16/2024 11:54:14 AM




## 1 ERU-GYM DUCTWORK SECTION
SCALE: 1/4" = 1'-0"




## 2 AHU-1 DUCTWORK SECTION
SCALE: 1/4" = 1'-0"




## 3 AHU-2 DUCTWORK SECTION
SCALE: 1/4" = 1'-0"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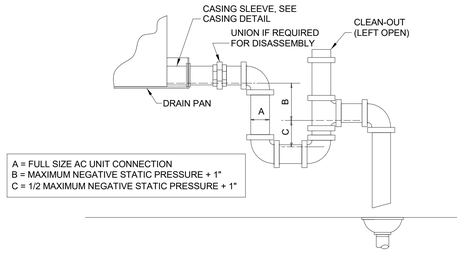
**HVAC SECTIONS**

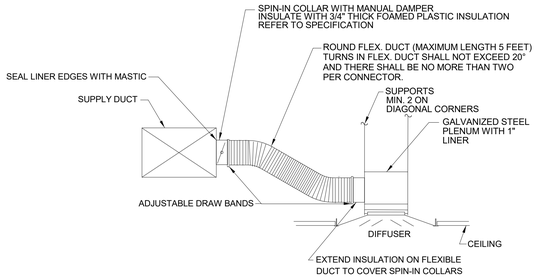
# M3.01

2/16/2024 11:54:15 AM




## AC UNIT DRAIN TRAP

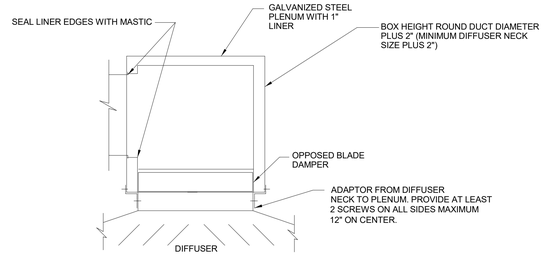
(NEGATIVE PRESSURE)
NO SCALE



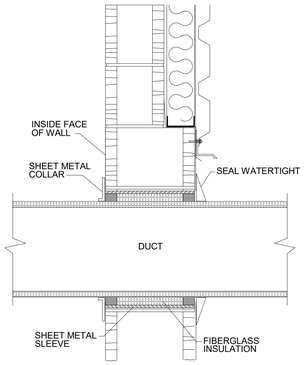

NOTE: WHEREVER THE SUPPLY DUCT HEIGHT IS INSUFFICIENT TO CONNECT THE SPIN-IN, THE SPIN-IN MAY BE CONNECTED TO THE TOP OR BOTTOM OF THE DUCT. IF THE BRANCH DUCT MUST BE CONNECTED TO THE SIDE OF THE MAIN DUCT, USE A RECTANGULAR BRANCH DUCT CONNECTION (SEE DETAIL) OF EQUAL AIR VELOCITY AND TRANSITION TO ROUND DUCT. REFER TO SPECIFICATION FOR MAXIMUM TURNS IN FLEX DUCT.

## CEILING DIFFUSER DETAIL WITH LINER

NO SCALE

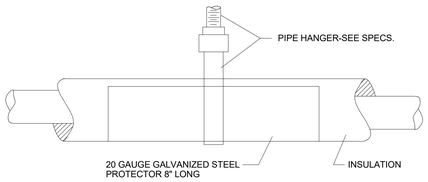



## PLENUM DETAIL

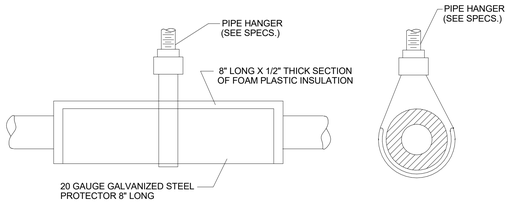



## DUCT SLEEVE FOR OUTSIDE WALL PENETRATION

NO SCALE



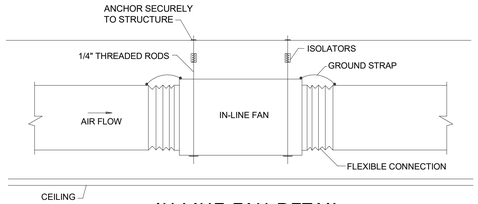

INSULATED LINES




UNINSULATED LINES SECTION

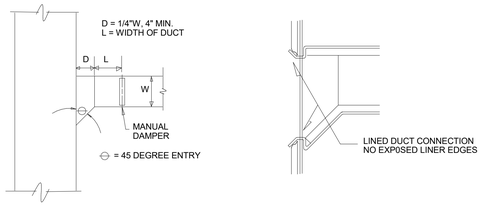
## REFRIGERANT LINES HANGERS

NO SCALE



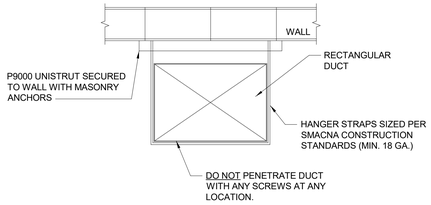

## IN-LINE FAN DETAIL

NO SCALE




## DUCT BRANCH CONNECTION

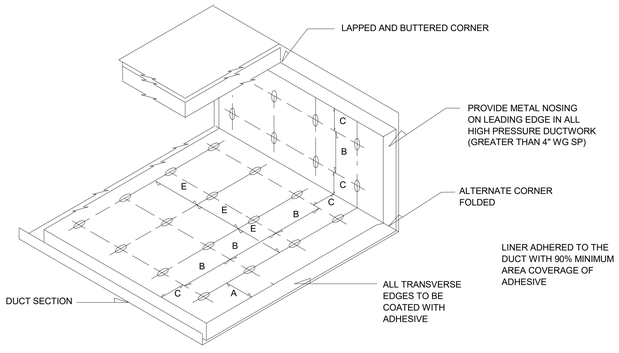
NO SCALE




LOW PRESSURE DUCTWORK

## RECTANGULAR DUCTWORK SUPPORT DETAIL

NOT TO SCALE

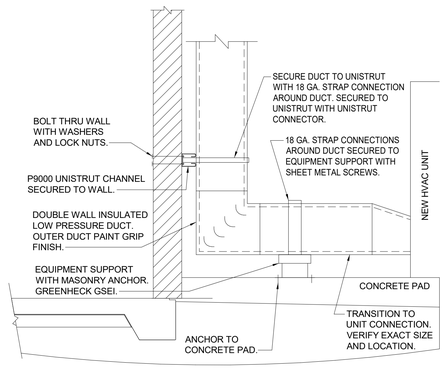



MAXIMUM SPACING FOR FASTENERS.
ACTUAL INTERVALS ARE APPROXIMATE.

| VELOCITY | DIMENSIONS | | | |
|---|---|---|---|---|
| | A | B | C | E |
| 0-2500 FPM | 3" | 12" | 4" | 18" |
| 2501-6000 FPM | 3" | 6" | 4" | 16" |

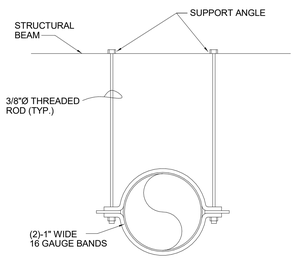
## DUCT LINER INSTALLATION DETAIL

NO SCALE



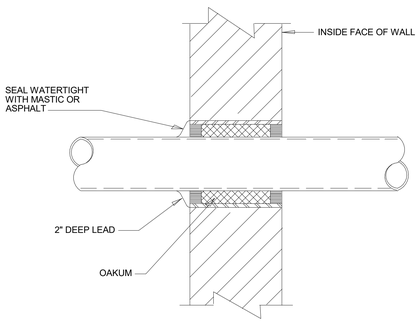

## HVAC DETAIL

NOT TO SCALE



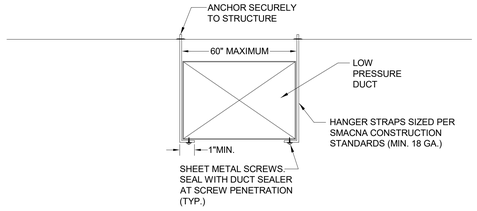

## TYP. EXPOSED ROUND DUCT HANGERS

NO SCALE




## PIPE SLEEVE FOR OUTSIDE WALL ABOVE GRADE

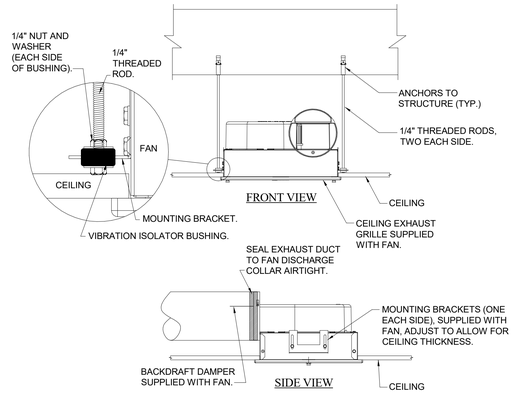
NO SCALE




LOW PRESSURE DUCTWORK

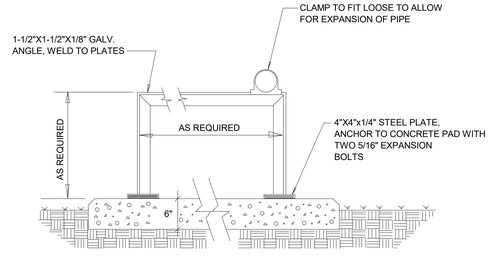
## RECTANGULAR DUCTWORK HANGER / SUPPORT DETAILS

NOT TO SCALE



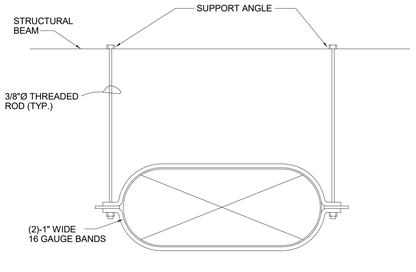

## CEILING EXHAUST FAN DETAIL

NOT TO SCALE




## PIPE SUPPORT ON GROUND

NO SCALE




## TYP. EXPOSED FLAT OVAL DUCT HANGERS

NO SCALE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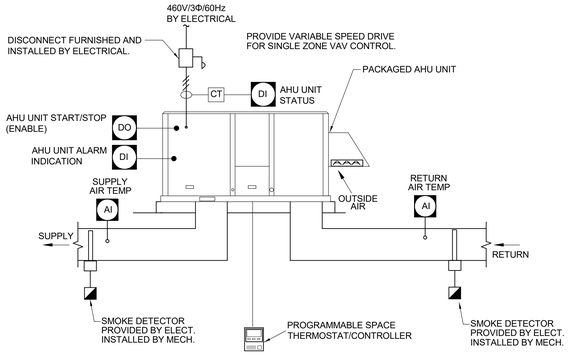
HVAC DETAILS

M4.01

2/16/2024 11:54:15 AM




SEQUENCE OF CONTROL AHU-1 & AHU-2

The unit shall start and factory furnished controls shall operate the unit to maintain space temperature set point at the space sensor subject to a signal from the building fire alarm system. The unit controller shall operate the outside air damper, start the fan through a factory mounted variable speed controller, modulate the variable speed controller to maintain supply air cfm, modulate the digital scroll compressor(s) to maintain space temperature setpoint.

When heating is required the electric heat shall be operated and modulated to maintain heating space temperature setting.

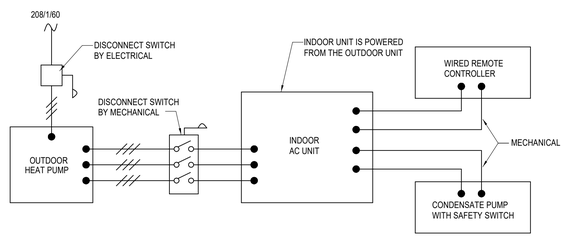
The unit controller shall also be able to monitor outdoor and return air enthalpy. When the outdoor air is above 55°F (adj) and the outdoor air enthalpy is less than return air enthalpy, the unit controller shall command the outside air damper open and the return air closed. The unit shall operate on 100% outdoor air and the supply air cooling setpoint shall be maintained by modulating the digital scroll compressors. If the outdoor air falls below 55°F (adj) , the compressors shall be locked out and the supply air cooling setpoint shall be maintained by modulating the outdoor and return air dampers. On a further drop in outdoor air temperature, as the supply air temperature drops, the outdoor air damper shall modulate to minimum position and the return air damper shall open. If the discharge air temperature continues to drop, modulating electric heat shall be energized to maintain the heating space temperature setpoint. When the unit is off, the outside air damper shall close.

The controls contractor shall coordinate with the unit manufacturer and provide all control wiring required for the operation of the manufacturer provided controls and as required by the sequence of control.

In the event of a fire alarm in the building the unit shall shut down.

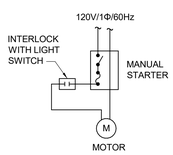
## PACKAGED AIR CONDITIONING UNIT CONTROLS (AHU-1 AND AHU-2)

NO SCALE



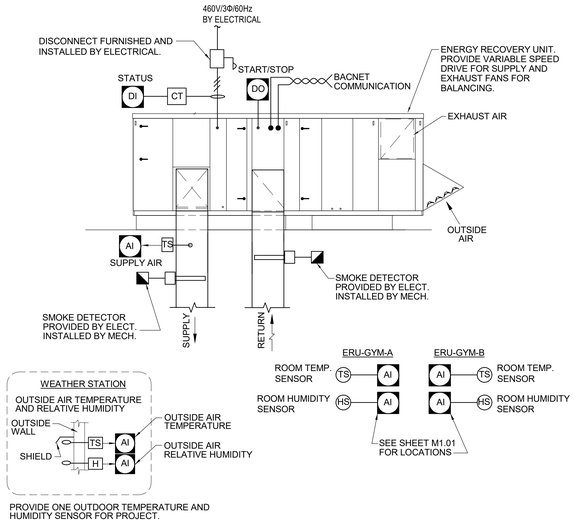

## MINI SPLIT SYSTEM CONTROLS

NO SCALE




## EXHAUST FAN CONTROLS
## EF-1, EF-2, EF-3, EF-4, EF-5

NO SCALE




## ERU-GYM CONTROLS DIAGRAM

NOT TO SCALE

GENERAL CONTROLS NOTES:

The contractor shall provide all controls as required to include all control panels, wiring, conduit, control sequences, power wiring and components necessary to provide a complete and operating system. All control wiring shall be installed in conduit in accordance with the electrical drawings and specifications.

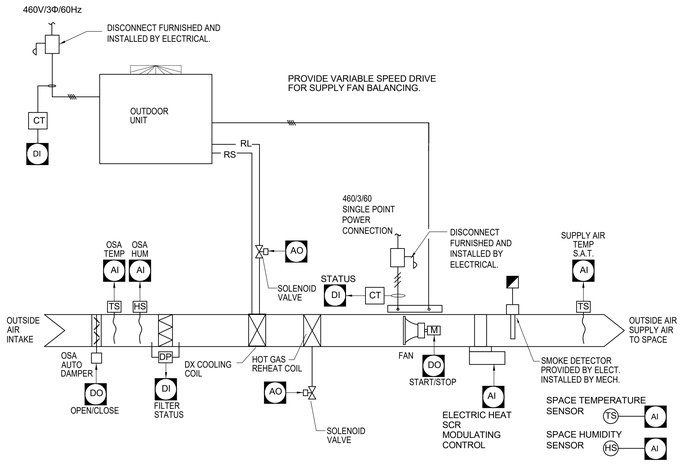
Unit is to be controlled by the factory mounted controller. It will interface with the building automation system (BAS) through the unit communication board via BACnet IP or as determined by the controls contractor. The BAS will send the controller occupied, optimal start/stop, night heat/cool and timed override commands. The BAS will also send a space temperature setpoint.

CONTROL SEQUENCES:

The unit controller shall shall start the fan through a factory mounted variable speed controller, modulate the variable speed controllers to maintain supply and exhaust air cfm as determined by the test and balance contractor, modulate the digital scroll compressors to maintain space temperature and modulate the hot gas reheat and electric heat in the dehumidification mode to maintain space relative humidity at 50% RH +- 5% (adj).

In the heating mode the controller shall modulate electric heat to maintain heating space temperature setpoint.

In the event of a fire alarm in the building the unit shall shut down.




## DEDICATED OUTSIDE AIR SYSTEM CONTROLS DIAGRAM (DOAS-1)

NOT TO SCALE

GENERAL CONTROLS NOTES:

THE CONTRACTOR SHALL PROVIDE ALL CONTROLS AS REQUIRED TO INCLUDE ALL CONTROL PANELS, WIRING, CONDUIT, CONTROL SEQUENCES, POWER WIRING, AND COMPONENTS NECESSARY TO PROVIDE A COMPLETE SYSTEM. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

UNITS ARE TO BE CONTROLLED BY THE FACTORY MOUNTED CONTROLLER. IT WILL INTERFACE WITH THE BUILDING AUTOMATION SYSTEM (BAS) VIA THE BCI COMMUNICATE BOARD UTILIZING BACNET PROTOCOL. THE BAS WILL SEND THE CONTROLLER OCCUPIED, UNOCCUPIED, OPTIMAL START/STOP, NIGHT HEAT/COOL AND TIMED OVERRIDE COMMANDS. THE BAS WILL ALSO SEND A ZONE TEMPERATURE SETPOINT.

CONTROL SEQUENCES:

UNIT CONTROLS:
BUILDING AUTOMATION SYSTEM (BAS) INTERFACE:

THE FACTORY UNIT CONTROLLER SHALL INTERFACE WITH THE BUILDING AUTOMATION SYSTEM VIA BACNET IP OR AS DETERMINED BY THE CONTROLS CONTRACTOR.

SUPPLY FAN:

THE UNIT WILL BE FACTORY SUPPLIED WITH A DIRECT DRIVE SUPPLY FAN DRIVEN BY A VARIABLE SPEED DRIVE. THE SUPPLY FAN WILL OPERATE CONTINUOUSLY AT A SPECIFIED SPEED TO BE DETERMINED BY THE AIR SIDE TEST AND BALANCE CONTRACTOR.

COOLING:

IN THE COOLING MODE THE UNIT CAPACITY WILL MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE UNIT COOLING SPACE TEMPERATURE SETPOINT OR DISCHARGE AIR SETPOINT (AHU-OSA-1A & 6B ONLY). UNIT CAPACITY WILL BE MODULATED BY THE VARIABLE SPEED COMPRESSOR OPERATION.

HEATING:

THE UNIT SHALL BE FURNISHED WITH SCR MODULATING ELECTRIC HEAT CONTROL. HEAT WILL BE CONTROLLED BY THE UNIT CONTROLLER TO MAINTAIN HEATING DISCHARGE AIR TEMPERATURE SETPOINT.

MODULATING HOT GAS REHEAT:

IF SPACE HUMIDITY RISES ABOVE 55% RH (ADJ) THE UNIT WILL GO INTO DEHUMIDIFICATION MODE. DURING THIS MODE THE THE UNIT HOT GAS REHEAT WILL BE ENABLED AND SHALL MODULATE THE DX COOLING AND HOT GAS REHEAT AS REQUIRED TO MAINTAIN THE RELATIVE HUMIDITY SETPOINT. THE DEHUMIDIFICATION MODE WILL BE CANCELED ONCE THE HUMIDITY DROPS BELOW 50% RH (ADJ). NOTE: THE DEHUMIDIFICATION MODE WILL OPERATE IN THE OCCUPIED OR UNOCCUPIED MODES.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2/16/24
223184

HVAC CONTROLS

M5.01

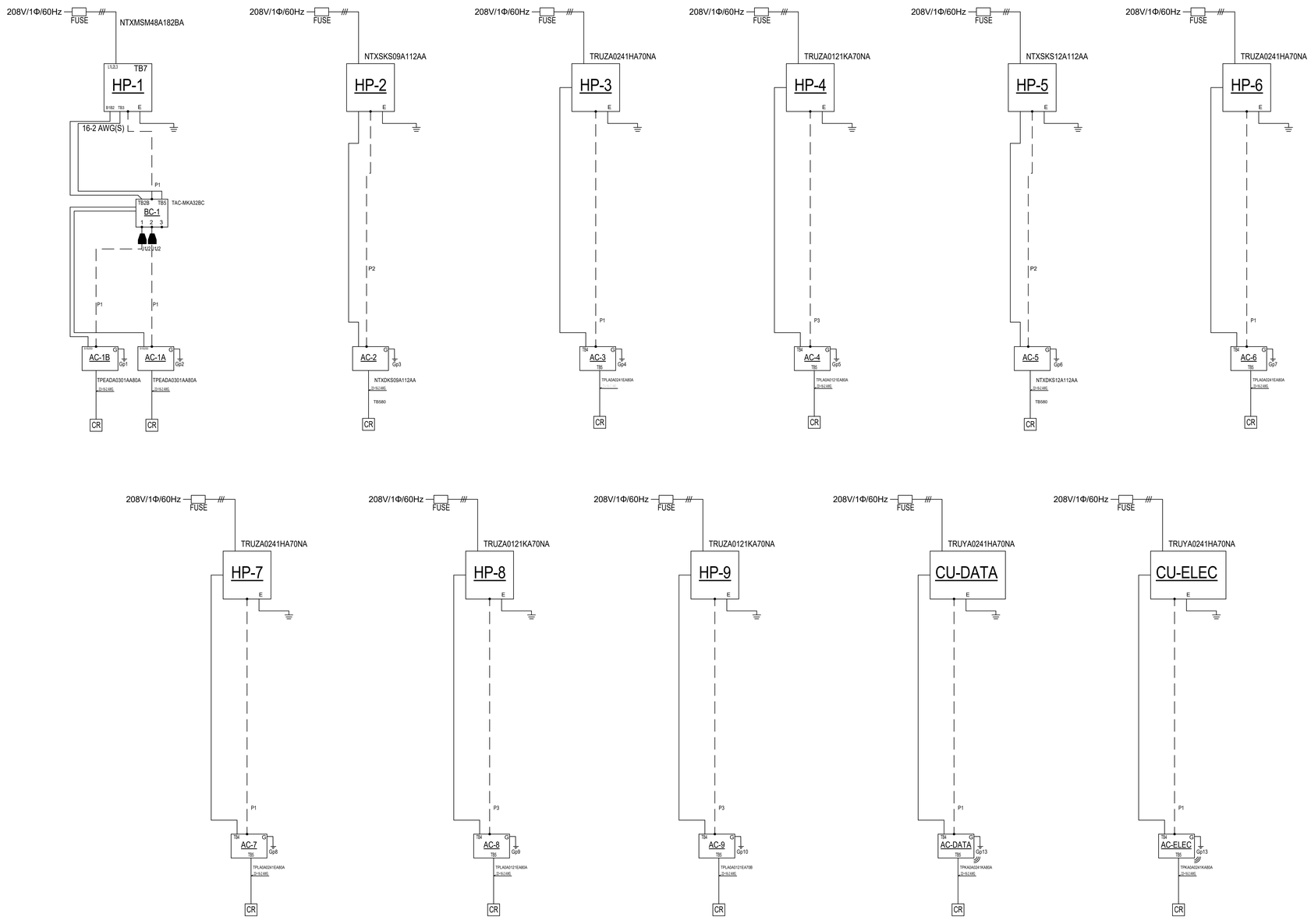
2/16/2024 11:54:16 AM

## GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL INDOOR UNITS AND OUTDOOR UNITS. DISCONNECT SWITCHES SHALL BE INSTALLED AND WIRED BY ELECTRICAL.
2. ALL CONTROLS WIRING BETWEEN INDOOR UNITS AND OUTDOOR UNITS SHALL BE BY THE MECHANICAL CONTRACTOR.
3. ALL POWER AND CONTROLS WIRING SHALL BE PROVIDED AND INSTALLED IN STRICT COMPLIANCE WITH THE SYSTEM MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND REQUIREMENTS WHETHER SHOWN ON THE DRAWINGS OR NOT.

## VRF SYSTEM PIPING NOTES:

1. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL REFRIGERANT AS REQUIRED BASED ON ACTUAL PIPING SIZES AND LINE LENGTHS. COORDINATE ALL REFRIGERANT REQUIREMENTS WITH VRF EQUIPMENT MANUFACTURER.
2. ALL REFRIGERANT PIPING SHALL BE INSULATED AS SPECIFIED AND IN ACCORDANCE WITH 2015 INTERNATIONAL ENERGY CONSERVATION CODE AND ASHRAE 90.1. PRE-INSULATED PIPING CLAMPS SHALL BE PROVIDED AND INSTALLED ON ALL REFRIGERANT PIPING.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL PIPING LABELS ON ALL REFRIGERANT PIPING AS SPECIFIED.
4. THE MECHANICAL CONTRACTOR SHALL LABEL ALL PORTS AND REFRIGERANT PIPING WITH INDOOR AC UNIT AND OUTDOOR UNIT SERVED.
5. THE VRF SYSTEM MANUFACTURER SHALL PROVIDE DRAWINGS AND SUBMITTALS OF COMPLETE FINAL PIPING LINE SIZES, LENGTHS, ELBOWS, ETC. IN ACCORDANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. DRAWINGS SHALL INCLUDE ALL WIRING AND PIPING TYPE, SIZES, ETC. MECHANICAL CONTRACTOR SHALL COORDINATE ALL SIZES SHOWN ON PLANS WITH ACTUAL EQUIPMENT TO BE PROVIDED.




## VRF SYSTEM REFRIGERANT PIPING AND CONTROLS SCHEMATIC

NO SCALE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**HVAC CONTROLS**

# M5.02

2/16/2024 11:54:16 AM

## PLUMBING FIXTURE AND CONNECTION SCHEDULE

| MARK | FIXTURE | WASTE | COLD WATER | HOT WATER | REMARKS |
|---|---|---|---|---|---|
| WC-1 | WATER CLOSET | 4" | 1" | --- | FLOOR MTD. FLUSH VALVE |
| WC-2 | WATER CLOSET | 4" | 1" | --- | FLOOR MTD. FLUSH VALVE ADA COMPLIANT |
| UR-1 | URINAL | 2" | --- | --- | WALL MTD. |
| UR-2 | URINAL | 2" | --- | --- | WALL MTD., ADA COMPLIANT |
| LAV-1 | LAVATORY, TWO STATIONS | 1-1/4" | 1/2" | 1/2" | WALL HUNG, ADA, ASSE 1070 THERMOSTATIC MIXING VALVE |
| LAV-2 | LAVATORY, THREE STATION | 1-1/4" | 1/2" | 1/2" | WALL HUNG, ADA, ASSE 1070 THERMOSTATIC MIXING VALVE |
| MS-1 | MOP SINK | 3" | 1/2" | 1/2" | 24"X24" |
| SK-1 | HAND SINK | 1-1/2" | 1/2" | 1/2" | 1 COMPARTMENT, WALL MTD. |
| SK-2 | 3-COMPARTMENT SINK | 1-1/2" | 1/2" | 1/2" | 3 COMPARTMENT |
| EWC-1 | WATER COOLER | 1-1/2" | 1/2" | --- | BI-LEVEL; ADA COMPLIANT, BOTTLE FILLER AND FILTER |
| IM | ICE MACHINE | 3/4" | 1/2" | --- | BY OTHERS, PIPE WASTE TO FS |
| IMB | ICE MAKER BOX | --- | 1/4" | --- | |

## WATER HEATER

| TAG | SERVING | TYPE | GALLONS | RECOVERY @ 100°F GPH | EWT °F | LVT °F | KW | V/ø | MODEL |
|---|---|---|---|---|---|---|---|---|---|
| EWH-1 | BUILDING | ELECTRIC TANK | 119 | 49 | 40 | 140 | 12 | 480/3 | A.O. SMITH DEN 120 |

## CIRCULATORS

| TAG | SERVES | TYPE | ELECTRICAL | CAPACITY | MODEL | NOTE |
|---|---|---|---|---|---|---|
| CP-1 | 110' HWR | IN LINE BRONZE | 120/1 | 3 GPM @ 20 FT. | B&G PL | 1 |

NOTE:

1 AQUASTAT AND 7 DAY CONTROL

## GENERAL NOTES

1. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X6" THICK CONCRETE PAD.
2. WHEREVER DISSIMILAR METALS ARE CONNECTED A DIELECTRIC CONNECTOR SHALL BE USED.
3. ALL HORIZONTAL WATER AND VENT PIPING IS RUN ABOVE CEILING ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
4. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
5. COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
6. ALL PIPE VALVES AND FITTINGS SHALL BE MADE IN THE USA

## PLUMBING LEGEND

| | |
|---|---|
| | SOIL OR WASTE LINE |
| | VENT LINE |
| D | DRAIN PIPE |
| - | COLD WATER LINE |
| -- | HOT WATER LINE |
| --- | HOT WATER CIRCULATOR LINE |
| | BALL VALVE |
| | PIPE TURNING UP |
| | PIPE TURNING DOWN |
| | P-TRAP |
| PRV | PRESSURE REDUCING STATION, SEE DETAIL |
| "X" | WATER HAMMER ARRESTER, SIZE SHOW |
| | TRAP PRIMER LINE UNDER SLAB |
| WH | WALL HYDRANT |
| FD | FLOOR DRAIN |
| MFD | MECHANICAL ROOM FLOOR DRAIN |
| FS | FLOOR SINK |
| P-# | PLUMBING FIXTURE NO. |
| # | RISER DIAGRAM NO. |
| AFF | ABOVE FINISHED FLOOR |
| BFF | BELOW FINISHED FLOOR |
| CO | CLEANOUT |
| CW | COLD WATER |
| VSR | VENT THRU ROOF |
| HW | HOT WATER |
| HWR | HOT WATER RETURN |
| AB.CL'G | ABOVE CEILING |
| CONN. | CONNECTION |
| DN. | DOWN |
| EX. | EXISTING |
| EXIST. | EXISTING |
| W/ | WITH |
| EWC. | ELECTRIC WATER COOLER |
| LAV. | LAVATORY |
| S.S. | STAINLESS STEEL |
| UR. | URINAL |
| W.C. | WATER CLOSET |


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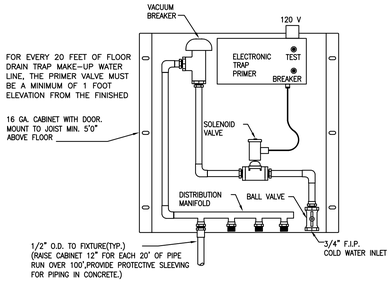
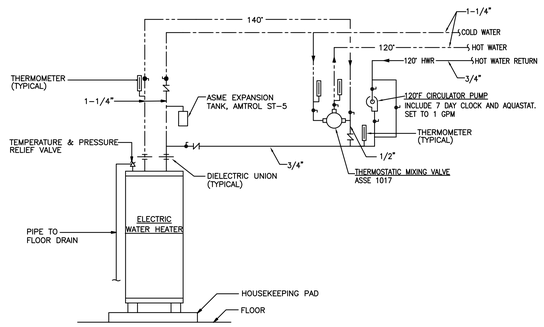
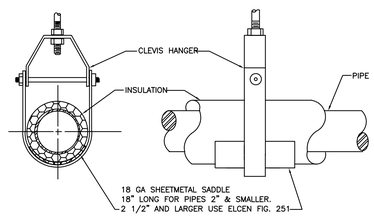


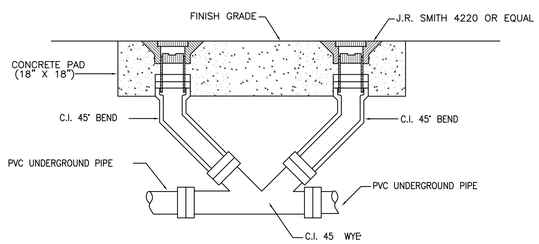

DETAIL-ELECTRONIC TRAP PRIMER
NO SCALE



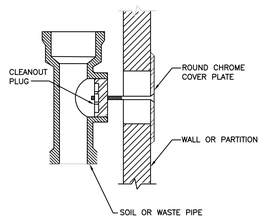

DETAIL of PIPING at WATER HEATER
NO SCALE



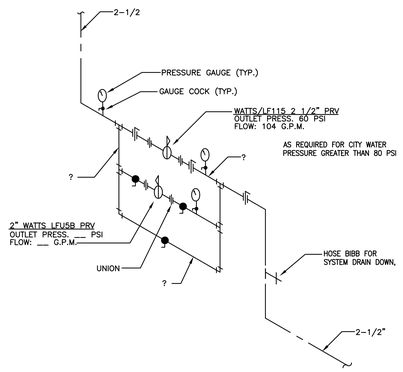

SUSPENDED PIPE SUPPORT
NO SCALE




DETAIL of EXTERIOR CLEANOUT to GRADE
(SANITARY) NO SCALE




WALL CLEANOUT
NO SCALE




PIPING @ DOMESTIC WATER ENTRY
NO SCALE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Morgan County, Alabama

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MORGAN COUNTY EVENT CENTER
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA LICENSED No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS, JR.
2/16/24
223184

SCHEDULES, LEGENDS, NOTES, & DETAILS

P0.01

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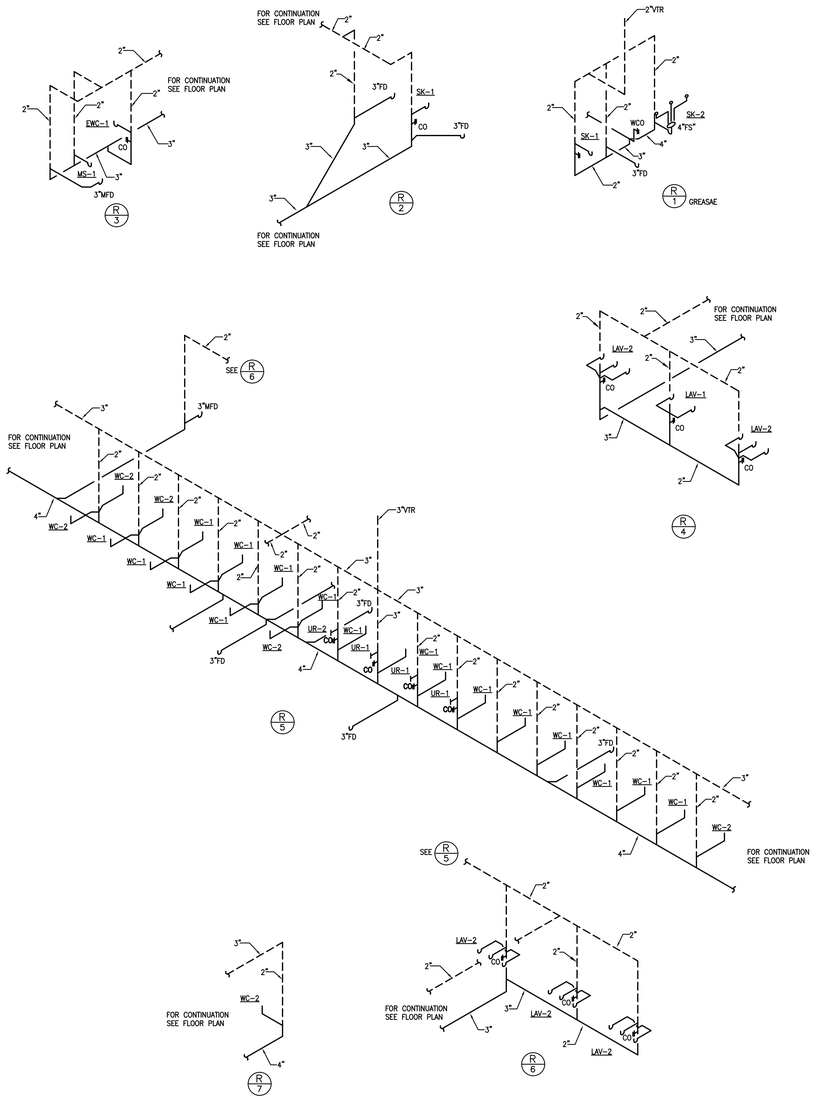


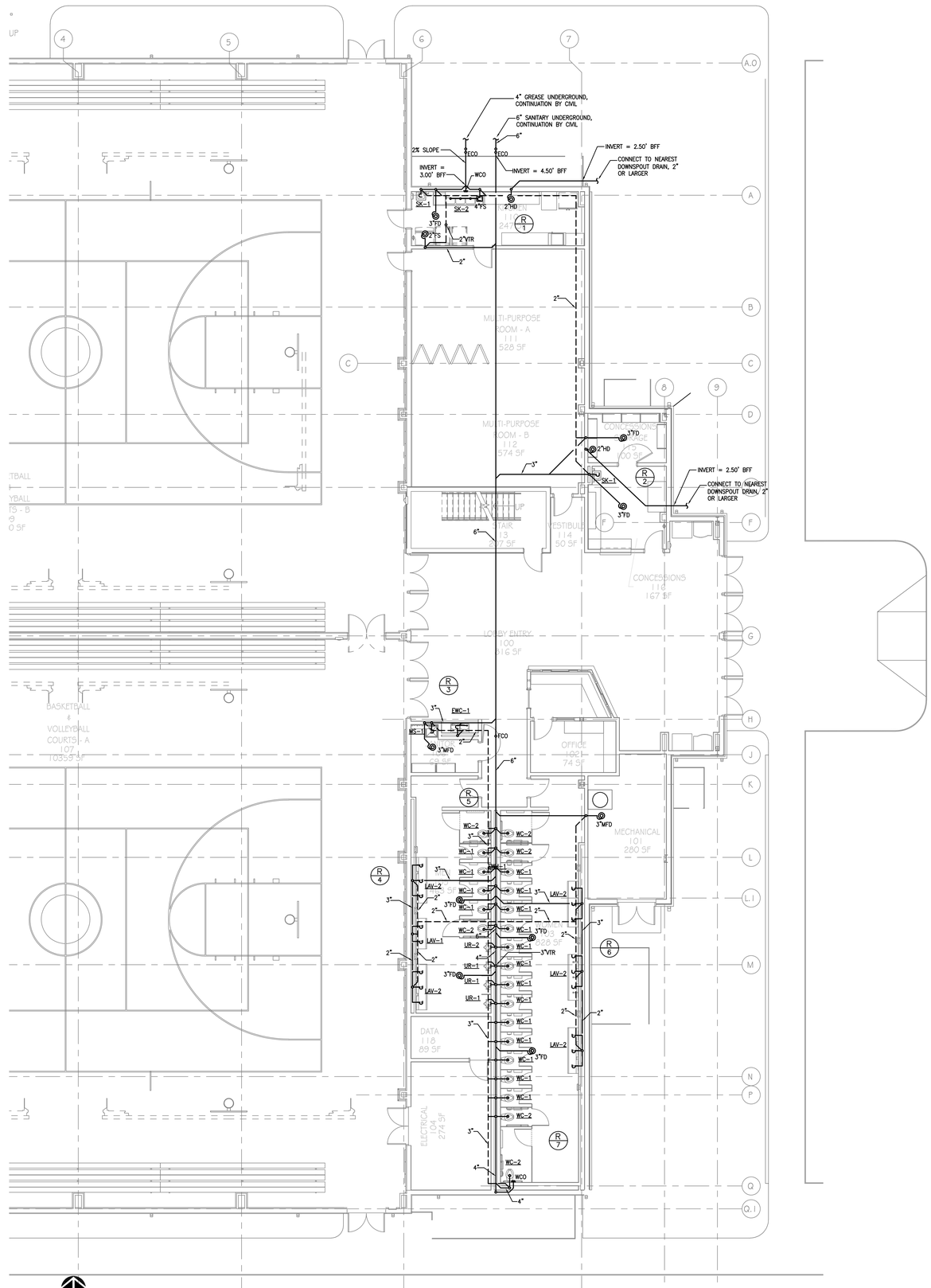


# P1 FIRST FLOOR PLAN - NON-PRESSURE PIPING

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

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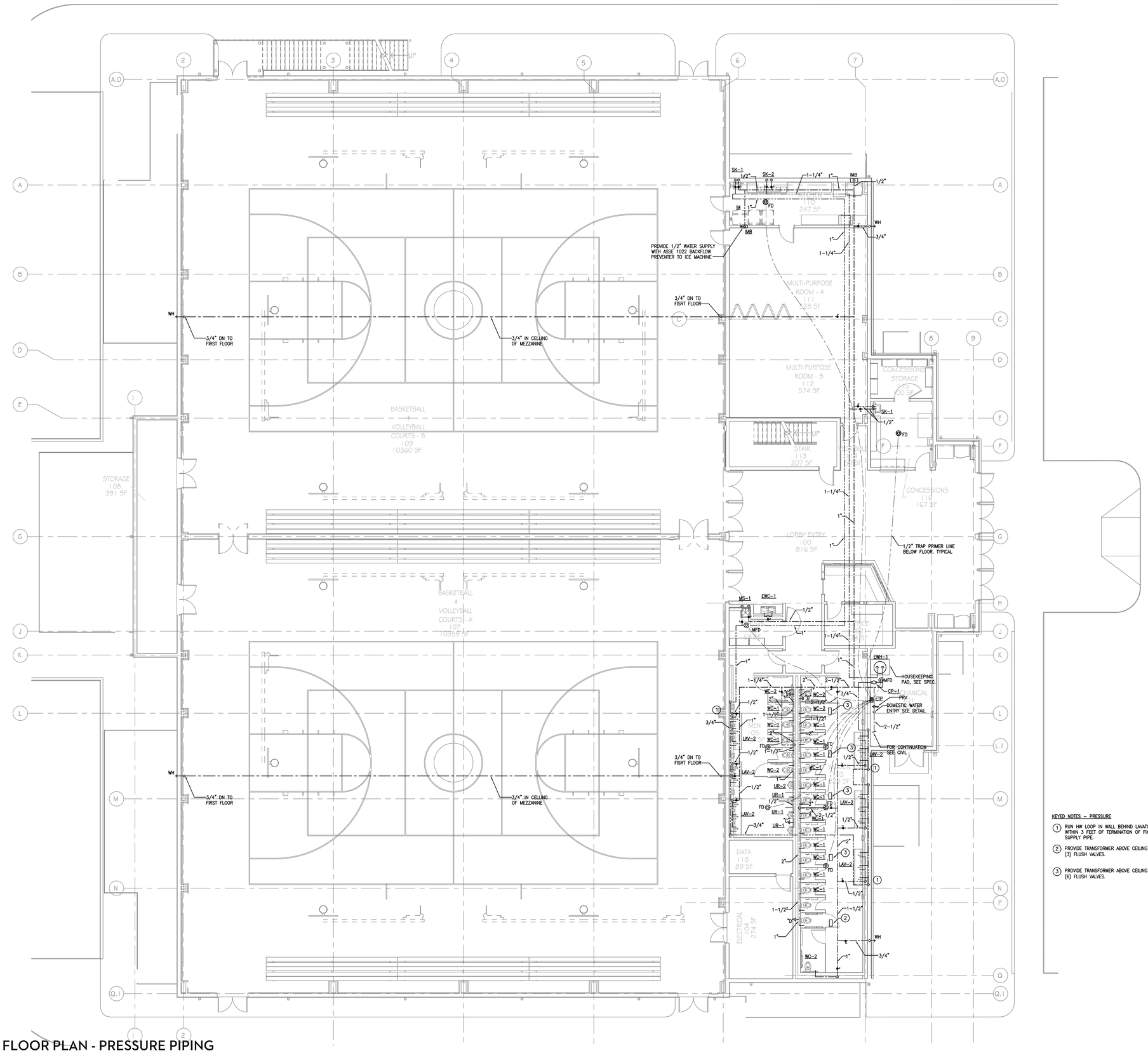
FIRST FLOOR PLAN-NON-PRESSURE PIPING

P1.01




KEYED NOTES – PRESSURE

1. RUN HW LOOP IN WALL BEHIND LAVATORY TO WITHIN 3 FEET OF TERMINATION OF FIXTURE SUPPLY PIPE.
2. PROVIDE TRANSFORMER ABOVE CEILING FOR (3) FLUSH VALVES.
3. PROVIDE TRANSFORMER ABOVE CEILING FOR (6) FLUSH VALVES.

TRUE NORTH

# P1 FIRST FLOOR PLAN - PRESSURE PIPING

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FIRST FLOOR PLAN-PRESSURE PIPING

P2.01

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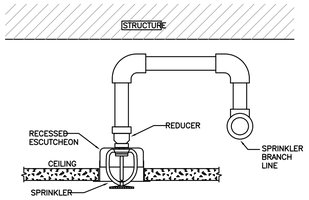
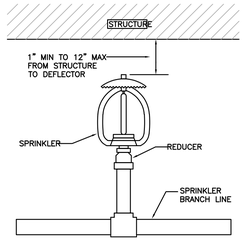
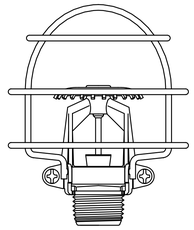


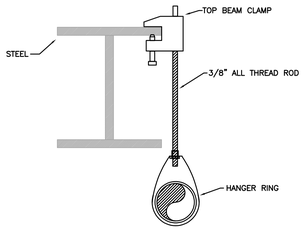

**1 RECESSED SPRINKLER (QUICK RESPONSE)**
NOT TO SCALE




**2 UPRIGHT SPRINKLER (QUICK RESPONSE)**
NOT TO SCALE



**3 UPRIGHT SPRINKLER WITH SPRINKLER GUARD**
NOT TO SCALE




**4 TYPICAL # 1 HANGER**
NOT TO SCALE

## SPRINKLER SYSTEM NOTES:

1. PROVIDE AND INSTALL WET AUTOMATIC SPRINKLER SYSTEM COVERAGE FOR THE BUILDING IN ACCORDANCE WITH NFPA 13, CITY MUNICIPAL CODE REQUIREMENTS AND SPECIFICATION SECTION 21.

2. CIVIL TO PROVIDE AND INSTALL FIRE DEPT. HOSE CONNECTIONS IN ACCORDANCE WITH NFPA 14 AND LOCAL CODE REQUIREMENTS.

3. CIVIL TO PROVIDE AND INSTALL DOUBLE CHECK DETECTOR BACK FLOW PREVENTER WHERE REQUIRED BY LOCAL AUTHORITIES.

4. COORDINATE THE LOCATION AND ARRANGEMENT OF THE FIRE DEPT. CONNECTIONS AND BACK FLOW PREVENTER WITH CIVIL DIVISION.

5. BRANCH LINES (WHERE POSSIBLE) SHALL BE RUN IN JOIST SPACE. SPRINKLER PIPING SHALL BE COORDINATED WITH DUCTWORK, CONDUIT, LIGHTS, PLUMBING PIPING AND OTHER RELATED TRADES TO INSURE ALL INTERFERENCE HAVE BEEN RESOLVED BEFORE INSTALLING PIPING.

6. ALL MATERIALS, WORKMANSHIP AND TESTING SHALL MEET THE REQUIREMENTS OF APPLICABLE STATE/LOCAL CODES, THE REQUIREMENTS OF NFPA 13 AND NFPA 25.

7. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EVALUATE THE EXTENT OF WORK AND WORKING CONDITIONS PRIOR TO BID.

8. PROVIDE WIRE SPRINKLER GUARDS OVER SPRINKLER HEADS IN GYM AREA, ELECTRICAL ,TELEPHONE ROOMS, AND OTHER SIMILAR SPACES WHERE HEADS ARE SUBJECT TO MECHANICAL DAMAGE.

9. ALL WET SPRINKLER SYSTEM PIPING SHALL BE INSTALLED WITHIN THE HEATED ENVELOPE OF THE BUILDING.

10. ALL SPRINKLERS SHALL BE CENTERED BOTH DIRECTIONS IN CEILING TILES AND ALL SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ROOMS AND CENTERED IN CORRIDORS.

11. PROVIDE MINIMUM OF 18" CLEARANCE BETWEEN BOTTOM OF AUTOMATIC SPRINKLER DEFLECTOR AND THE TOP OF STORAGE, FILES, SHELVING, ETC.

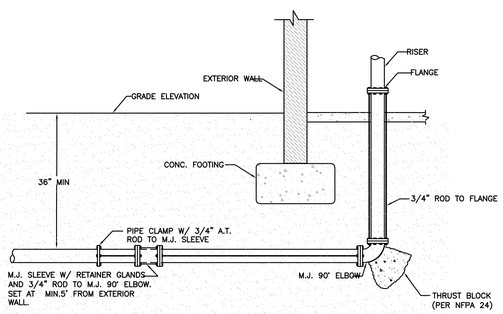
12. ALL FLOW SWITCHES SHALL BE INTERLOCKED WITH THE BUILDING FIRE ALARM SYSTEM AND ANNUNCIATED ON THE ENUNCIATOR PANEL.

13. ALL SHUT-OFF VALVES IN THE SYSTEM MUST BE OF AN INDICATING TYPE AND MUST BE MONITORED BY MEANS OF A TAMPER SWITCH.

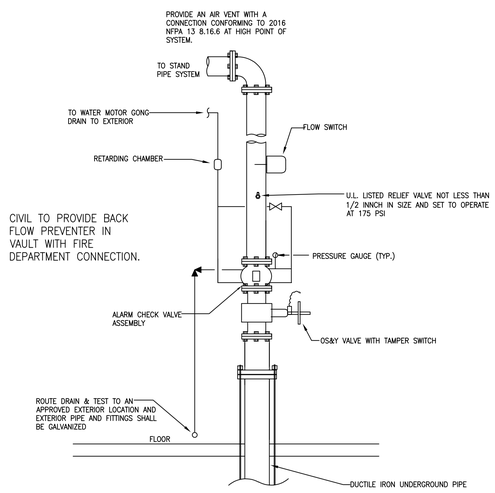
14. SPRINKLER PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND SPRINKLERS IN ELECTRICAL ROOMS SHALL BE SUPPLIED BY PIPING THAT TERMINATES IN THE ROOM AND DOES NOT PASS DIRECTLY OVER ELECTRICAL PANELS.

15. ALL SPRINKLERS SHALL BE U.L. LISTED AND F.M, APPROVED COMMERCIAL TYPE QUICK RESPONSE.

16. ALL PRODUCTS USED SHALL BE MANUFACTURED IN THE U.S.A., INCLUDING BUT NOT LIMITED TO SPRINKLERS, SPRINKLER PIPING, FITTINGS, VALVES, SWITCHES AND ALL OTHER ITEMS USED IN THE FIRE PROTECTION SYSTEM.




**5 PIPE ENTRY AT BUILDING DETAIL**
NOT TO SCALE




CIVIL TO PROVIDE BACK FLOW PREVENTER IN VAULT WITH FIRE DEPARTMENT CONNECTION.

**6 WET AUTOMATIC SPRINKLER SYSTEM RISER DETAIL**
NOT TO SCALE

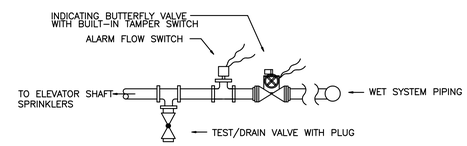
## FIRE-STOP NOTES:

1. PROVIDE AND INSTALL U.L. CLASSIFIED THROUGH-PENETRATION FIRESTOP SYSTEMS FOR PIPING AND CONDUIT PENETRATIONS THROUGH ALL FIRE-RESISTANCE-RATED ASSEMBLIES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.

2. THE FIRESTOP SYSTEMS PROVIDED SHALL RESIST THE SPREAD OF FIRE, RESIST THE PASSAGE OF SMOKE AND OTHER GASES.

## ELEVATOR SPRINKLER NOTES

1. COORDINATE WITH ELECTRICAL. ELECTRICAL TO PROVIDE SHUNT TRIP TO INSURE THAT POWER TO ELEVATOR EQUIPMENT IS INTERRUPTED PRIOR TO ACTIVATION OF SHAFT SPRINKLERS.
2. PROVIDE SIDEWALL SPRINKLERS AT THE BOTTOM OF THE ELEVATOR SHAFT. PROVIDE INDICATING CONTROL VALVE WITH TAMPER SWITCH AND FLOW SWITCH ABOVE CEILING FOR THE SPRINKLER IN THE ELEVATOR SHAFT.
3. THE UPRIGHT SPRINKLER AT THE TOP OF THE ELEVATOR SHAFT IS NOT REQUIRED IF THE ELEVATOR AND SHAFT MEET ASME A 17.1 ELEV. SAFETY CODE.




**7 TYPICAL ELEVATOR SPRINKLER AND MACHINE ROOM CONTROL VALVE DETAIL DETAIL**
NOT TO SCALE

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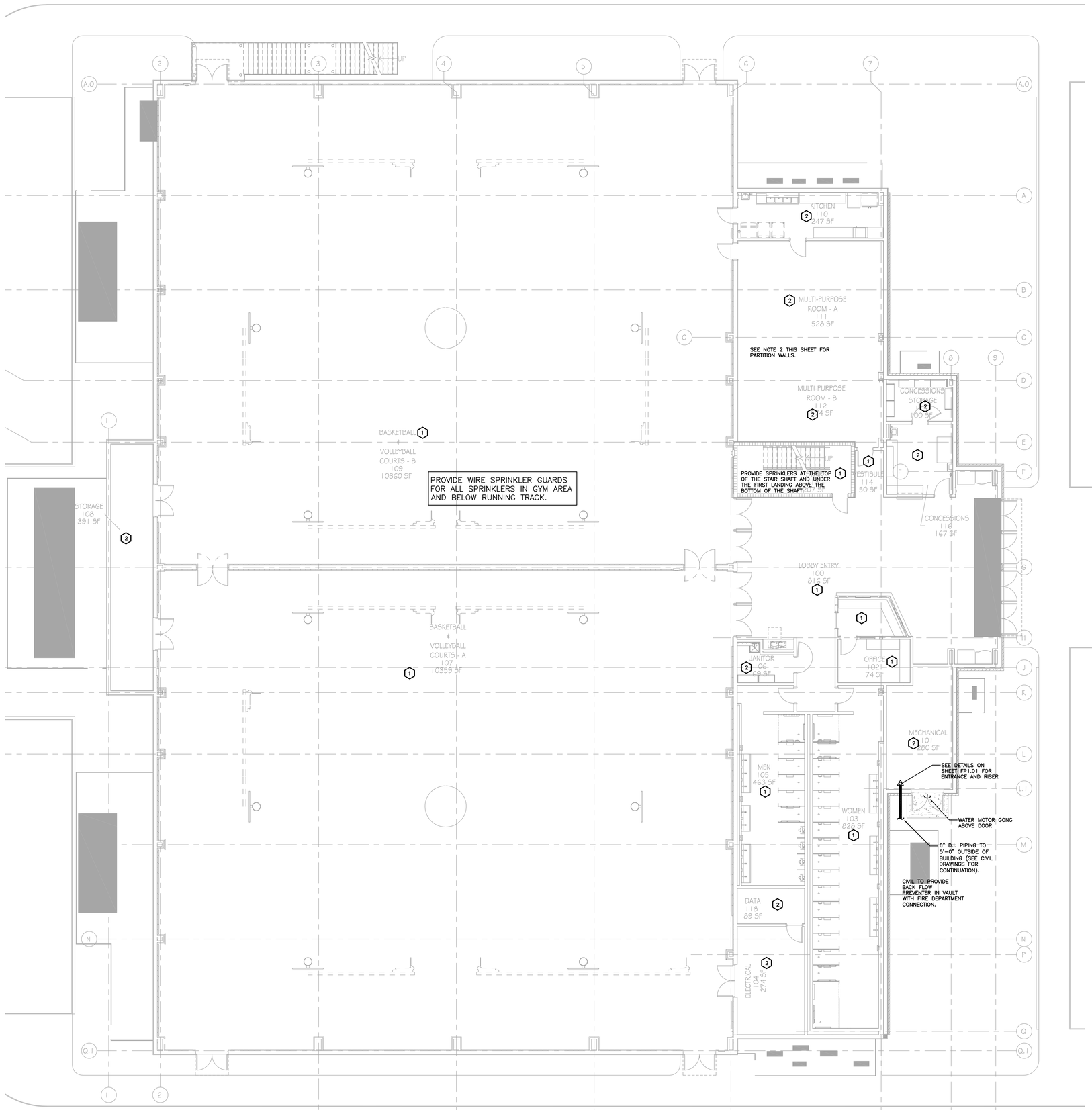
GMC A-HUN230008

STATE OF ALABAMA
No. 14178
PROFESSIONAL ENGINEER
JAMES S. DAVIS, JR.
2/16/24
223184

**DETAILS & NOTES FIRE PROTECTION**

# FP1.00

1/23/2024 6:46:47 AM




NOTE:
1. SPRINKLER PIPING AND EQUIPMENT SHOWN ARE FOR REPRESENTATIONAL PURPOSES AND EXACT LOCATION AND QUANTITY MAY CHANGE DUE TO ACTUAL CONDITIONS. SPRINKLERS ARE TO BE PROVIDED AND LOCATED IN ACCORDANCE WITH NFPA 13. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECT, LIGHTING AND HVAC.
2. COORDINATE SPRINKLER LOCATIONS WITH PARTITION WALLS AND PROVIDE PROPER COVERAGE FOR ROOMS WHEN PARTITION WALL IS OPENED AND OR CLOSED.
3. SMALL ROOM RULE DOES NOT APPLY TO ORDINARY HAZARD OCCUPANCIES.
4. ALL PRODUCTS USED SHALL BE MANUFACTURED IN THE U.S.A., INCLUDING BUT NOT LIMITED TO SPRINKLERS, SPRINKLER PIPING, FITTINGS, VALVES, SWITCHES AND ALL OTHER ITEMS USED IN THE FIRE PROTECTION SYSTEM.

## KEYED NOTES

1. LIGHT HAZARD OCCUPANCY PROVIDE 0.10 DENSITY
2. ORDINARY HAZARD GROUP 1 OCCUPANCY PROVIDE 0.15 DENSITY

NOTE:
SMALL ROOM RULE DOES NOT APPLY TO ORDINARY HAZARD OCCUPANCIES.

TRUE NORTH

# FP1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

1/23/2024 6:46:47 AM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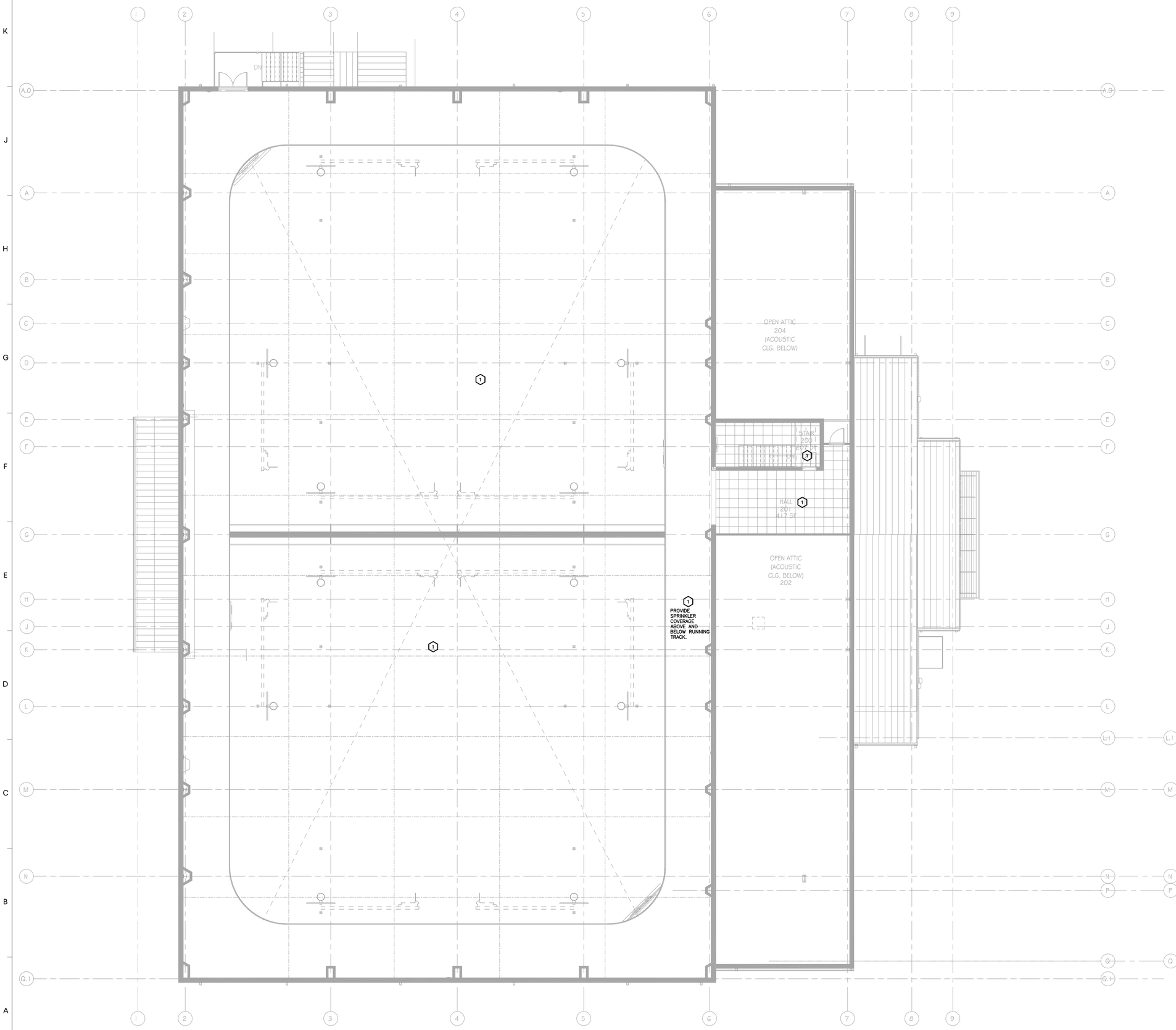
No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS III
2/16/24 223184

FIRST FLOOR PLAN
FIRE PROTECTION

FP1.01

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2. COORDINATE SPRINKLER LOCATIONS WITH PARTITION WALLS AND PROVIDE PROPER COVERAGE FOR ROOMS WHEN PARTITION WALL IS OPENED AND OR CLOSED.
3. SMALL ROOM RULE DOES NOT APPLY TO ORDINARY HAZARD OCCUPANCIES.
4. ALL PRODUCTS USED SHALL BE MANUFACTURED IN THE U.S.A., INCLUDING BUT NOT LIMITED TO SPRINKLERS, SPRINKLER PIPING, FITTINGS, VALVES, SWITCHES AND ALL OTHER ITEMS USED IN THE FIRE PROTECTION SYSTEM.

## KEYED NOTES

1. LIGHT HAZARD OCCUPANCY PROVIDE 0.10 DENSITY
2. ORDINARY HAZARD GROUP 1 OCCUPANCY PROVIDE 0.15 DENSITY

NOTE:
SMALL ROOM RULE DOES NOT APPLY TO ORDINARY HAZARD OCCUPANCIES.

# FP1 MEZZANINE FLOOR PLAN
SCALE: 1/8" = 1'-0"

TRUE NORTH

1/23/2024 6:46:47 AM

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2/16/24
223184

MEZZANINE FLOOR PLAN
FIRE PROTECTION

FP1.02

## POWER & AUXILIARY - FLOOR OUTLETS

- FLOOR OUTLET: DUPLEX RECEPTACLE, 15A., 125V., 2P., 3W., HUBBELL NO. S3725-B2529-5252
- COMPUTER SYSTEM: FLOOR OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING [TBB]
- TELEPHONE SYSTEM: FLOOR OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING [TBB]
- FLOOR OUTLET: (POKE-THRU DEVICE), COMBINATION POWER AND DATA, WIREMOLD FLOOR PORT SERIES, OR APPROVED EQUAL.

## RECEPTACLES

- WALL OUTLET: DUPLEX RECEPTACLE, NEMA 5-20R.
- WALL OUTLET: SINGLE RECEPTACLE, NEMA 5-20R.
- WALL OUTLET: DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 44" AFF UNLESS OTHERWISE NOTED OR EQUAL.
- WALL OUTLET: SINGLE RECEPTACLE, NEMA 6-30R. MOUNT AT 18" AFF.
- EWC — WALL OUTLET: ELECTRIC WATER COOLER RECEPTACLE, GFI TYPE, 20A, 125V, 2P, 3W, NEMA 5-20R. VERIFY EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.
- GFI — WALL OUTLET: GROUND FAULT INTERRUPTER RECEPTACLE, TERMINAL NEMA 5-15R. MOUNT AT 18" A.F.F.. OR AS NOTED.
- WP — WALL OUTLET: DUPLEX RECEPTACLE, WEATHERPROOF, NEMA 5-20R. COVER SHALL BE RATED "EXTRA DUTY" PER NEC 406.9(B)
- WALL OUTLET: DOUBLE-DUPLEX, NEMA 5-20R., MOUNT 44" AFF.
- WALL OUTLET: DOUBLE-DUPLEX, NEMA 5-20R., MOUNT 18" AFF.
- USB — WALL OUTLET: DUPLEX RECEPTACLE WITH ONE USB-A AND ONE USB-C OUTLET EQUALS LEVITON #T5833

## TELE/DATA

- WAP — COMPUTER SYSTEM: CEILING OUTLET WITH 1 EACH CAT6 CABLE TO TBB.
- COMPUTER SYSTEM: WALL OUTLET WITH 3/4"C. TO ABOVE ACCESSIBLE CEILING. WITH 2 EACH CAT6 CABLES BACK TO TBB.
- TBB — TELEPHONE BACKBOARD: 4'X8' VERTICAL ORIENTATION, PAINTED ALL SIDES WITH GRAY FIRE RETARDANT PAINT.
- CAM — CAMERA OUTLET: 2-PORT DATA STATION WITH CABLING. USE 1"C. IN INACCESSIBLE AREAS. USE J-HOOKS IN ACCESSIBLE AREAS. SEE DETAILS. ROUTE 1 CAT6 CABLE PER CAMERA TO TBB.

## FIRE ALARM

- F — FIRE ALARM SYSTEM: MANUAL STATION, MOUNT 4'-0"H.
- FS — FIRE ALARM SYSTEM: LOCAL ALARM AND SUPERVISORY PANEL.
- FA — FIRE ALARM SYSTEM: ANNUNCIATOR
- FIRE ALARM SYSTEM: SMOKE DETECTOR, SURFACE MOUNTED.
- T — FIRE ALARM SYSTEM: AUTOMATIC FIRE DETECTOR, HIGH TEMPERATURE, 190 DEG. F.(THERMAL) (THERMAL AND RATE OF RISE).
- FIRE ALARM SYSTEM: SMOKE DETECTOR IN A/C DUCT WITH SAMPLING TUBES.
- F — FIRE ALARM SYSTEM: COMBINATION HORN AND LIGHT. MOUNT 80" A.F.F.
- F — FIRE ALARM SYSTEM: COMBINATION SPEAKER AND STROBE, WALL MOUNTED
- F — FIRE ALARM SYSTEM: ALARM SIGNAL LIGHT. MOUNT 80" A.F.F.
- F — FIRE ALARM SYSTEM: COMBINATION LOW FREQUENCY SOUNDER & STROBE, MOUNT 80" A.F.F.
- FIRE ALARM SYSTEM: (AUTOMATIC DOOR RELEASE)
- FACP — FIRE ALARM SYSTEM: CONTROL PANEL, (SURFACE) (FLUSH) MOUNTED.
- F — FIRE ALARM SYSTEM: 3/4" CONDUIT UNLESS OTHERWISE NOTED. CONDUCTORS PER MANUFACTURER.

## SECURITY SYSTEMS

- CAM — SECURITY CAMERA: DOUBLE-GANG J-BOX WITH SINGLE GANG PLASTER RING, 1"C. TO SECURITY TBB. COORDINATE MOUNTING HEIGHT WITH OWNER.

## BRANCH CIRCUITS

- BRANCH CIRCUIT: CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT: CONCEALED IN CEILING OR WALL. 3#12, 1#12G-3/4"C
- BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED. SHOWN, 2#12, 1#12G-3/4"C THE NUMBER IN THE CIRCUIT INDICATES A.W.G. WIRE SIZE WHEN DIFFERENT THAN #12 AWG. SEE NOTE 22.
- BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED. SHOWN, 2#12, 2#12(N), 1#12(G)-3/4"C. THE NUMBER IN THE CIRCUIT INDICATES A.W.G. WIRE SIZE WHEN DIFFERENT THAN #12 AWG. SEE NOTE 22.
- BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED. SHOWN, 3#12, 3#12(N), 1#12(G)-3/4"C. THE NUMBER IN THE CIRCUIT INDICATES A.W.G. WIRE SIZE WHEN DIFFERENT THAN #12 AWG. SEE NOTE 22.
- BRANCH CIRCUIT: CONCEALED IN OR BELOW FLOOR OR UNDERGROUND
- RISER: DOWN
- RISER: UP

## JUNCTION & OUTLET BOXES

- J — CEILING OUTLET: JUNCTION BOX.
- J — WALL OUTLET: JUNCTION BOX WITH FLEXIBLE CONNECTION.
- J — WALL OUTLET: JUNCTION BOX.
- TB — WALL OUTLET: JUNCTION BOX WITH 3/4" CONDUIT TO UNIT NOTED. CORDINATE WITH MECHANICAL CONTRACTOR

## LIGHTING (SEE LIGHT FIXTURE SCHEDULE)

- A 1 — CEILING OUTLET: RECESSED LED LIGHT FIXTURE, AS NOTED, TYPE "A" CIRCUIT #1.
- A 1 — CEILING OUTLET: RECESSED EMERGENCY LED LIGHT FIXTURE, AS NOTED, TYPE "A" CIRCUIT #1.
- CEILING OUTLET: EXIT LIGHT, SEE LIGHT FIXTURE SCHEDULE.
- A 1 — CEILING OUTLET: RECESSED LED LIGHT FIXTURE. LUMINAIRE TYPE "A", CIRCUIT #1
- A 1 — CEILING OUTLET: RECESSED EMERGENCY LED LIGHT FIXTURE. LUMINAIRE TYPE "A", CIRCUIT #1
- CEILING OUTLET: SURFACE MOUNTED LED LIGHT FIXTURE.
- CEILING OUTLET: SURFACE MOUNTED EMERGENCY LED LIGHT FIXTURE.
- WALL OUTLET: WALL MOUNTED EMERGENCY LED LIGHT FIXTURE.
- WALL OUTLET: WALL MOUNTED LED LIGHT FIXTURE.
- A — POLE MOUNTED FIXTURE: LED LIGHT FIXTURE. TYPE "A", CIRCUIT #1.

## LIGHTING CONTROLS

- WALL SWITCH: MANUAL DIMMER
- WALL SWITCH: LINE VOLTAGE OR 0-10V, AS REQUIRED, WIRELESS.
- W — WALL SWITCH: WIRELESS, DIMMER FOR USE WITH WIRELESS SYSTEM. SEE DETAILS.
- $ — WALL SWITCH: A.C. TYPE, 1-POLE, 15A, 125/277V.
- $ 3 — WALL SWITCH: A.C. TYPE, 3-WAY, 15A, 125/277V.
- $ 4 — WALL SWITCH: A.C. TYPE, 4-WAY, 15A, 125/277V.
- $ W — WALL SWITCH: SYSTEM ON/OFF, RAISE/LOWER. FOR USE WITH WIRELESS. SEE DETAILS.
- PE — PHOTOCELL: TORK #2101 OR EQUAL MOUNTED ON ROOF.
- $ O — WALL SWITCH: OCCUPANCY SENSOR & MANUAL ON/OFF. WATTSTOPPER DW-100 OR EQUAL.
- $ M — SWITCH: LIGHT CONTROL SYSTEM, MOMENTARY, SEE DETAILS.
- $ OVR — SWITCH: LOCAL ON/OFF OVERRIDE SWITH FOR LOCAL OCCUPANCY SENSOR.
- $ P — WALL SWITCH: WITH LIGHTED TOGGLE HANDLE.
- WALL OCCUPANCY SENSOR: SEE DETAILS.
- CEILING OCCUPANCY SENSOR: SEE DETAILS
- P — LIGHTING POWER PACK: FOR USE WITH OCCUPANCY SENSORS & LIGHTING CONTROL. SEE DETAILS.
- CEILING DAYLIGHT SENSOR: SEE DETAILS

## POWER

- CEILING EXHAUST FAN.
- NON-FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- CIRCUIT BREAKER.
- ATS — AUTOMATIC TRANSFER SWITCH.
- ELECTRICAL PANEL: SEE SCHEDULE AND SPECIFICATIONS.
- T — TRANSFORMER
- FUSED DISCONNECT SWITCH WITH CONNECTION TO EQUIPMENT.
- $ T — MANUAL MOTOR STARTER THERMAL SWITCH. WALL MOUNT 5'-6"H. OR AT MOTOR AS SHOWN.

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | ABOVE COUNTER | IG | ISOLATED GROUND |
| AFG | ABOVE FINISH GRADE | NL | NIGHT LIGHT |
| AFF | ABOVE FINISH FLOOR | MCB | MAIN CIRCUIT BREAKER |
| AIC | AVAILABLE INTERRUPT CURRENT | MLO | MAIN LUGS ONLY |
| AL | ALUMINUM | RR | REMOVE AND REPLACE WITH NEW |
| AWG | AMERICAN WIRE GAUGE | TBB | TELEPHONE BACK BOARD |
| C | CONDUIT RACEWAY | TP | TAMPER PROOF |
| CB | CIRCUIT BREAKER | TV | TELEVISION |
| CU | COPPER | TYP | TYPICAL |
| DISC | DISCONNECT | UC | UNDER COUNTER |
| EM | EMERGENCY | UG | UNDER GROUND |
| EMT | ELECTRICAL METALLIC TUBING | WAP | WIRELESS ACCESS POINT |
| EP | EXPLOSION PROOF | WP | WEATHERPROOF, NEMA 3R. |
| EX | EXISTING | XR | EXISTING - REMOVE |
| F | FUSE | XRR | EXISTING - REMOVE AND RELOCATE |
| G, GRD | GROUND | XRL | EXISTING - RELOCATED |
| GFI | GROUND FAULT INTERRUPTING | | |

DO NOT SCALE DIMENSIONS FROM DRAWINGS. CONSULT OWNER/ARCHITECT FOR EXACT DIMENSIONAL DATA.

# NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
3. CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
4. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
5. CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
6. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
7. THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUITS, OUTLETS, ETC. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
8. ATTENTION IS CALLED TO THE FACT THAT THIS IS A RENOVATION OF AN EXISTING BUILDING. WHEN THE WORK IS FINISHED, THE ELECTRICAL SHALL BE COMPLETE IN EVERY RESPECT, COMPLETELY INTEGRATED WITH ALL THE EXISTING ELECTRICAL SYSTEMS. ELECTRICAL SERVICE TO THE EXISTING BUILDING SHALL NOT BE INTERRUPTED AT ANY TIME. PROVIDE ALL THE NECESSARY TIES AND TEMPORARY SERVICE TO ACHIEVE THIS CONDITION.
9. RENOVATION/ADDITION SHALL BE MADE TO TIE INTO EXISTING IN A UNIFORM MANNER. SIMILAR ITEMS IN NEW BUILDING SHALL BE CHECKED AGAINST EXISTING BUILDING AS FOR TYPE MOUNTING, MOUNTING HEIGHTS, ETC. ANY ITEMS SHOWN IN NEW ADDITION AT VARIANCE FROM ABOVE SHALL BE REFERRED TO ARCHITECT FOR DECISION BEFORE ROUGHING IN.
10. DEMOLITION: ALL EXISTING BRANCH CIRCUITS NOT REUSED ON THIS PROJECT SHALL BE REMOVED BACK TO THE ELECTRICAL PANELBOARD. THIS INCLUDES ALL CONDUIT, CONDUCTORS, JUNCTION BOXES, INACTIVE DATA AND TELEPHONE CABLES, HANGERS, AND ALL INACTIVE ELECTRICAL DEVICES. CONTRACTOR SHALL VERIFY THAT ANYTHING REMOVED DOES NOT BELONG TO ANOTHER TENANT.
11. SHOULD ANY ELECTRICAL POWER, LIGHT OR AUXILIARY, CIRCUITS, FEEDERS OR EQUIPMENT BE SEVERED, DISCONNECTED OR DELETED IN THE PROCESS OF CONSTRUCTION OR REMODELING WHICH IS NOTED A RESULT OF CONTRACT PLANS AND SPECIFICATIONS, AND UNLESS IT IS SPECIFICALLY DESIGNATED BY THE DRAWINGS TO BE DELETED, THEN SAID CIRCUIT OR FEEDER SHALL BE RESTORED TO FIRST CLASS WORKING CONDITION. THE RESTORATION SHALL INCLUDE ANY RE-ROUTING, RELOCATIONS OR REPLACEMENT AS MAY BE NECESSITATED BY THE ARCHITECTURAL AND STRUCTURAL CONSTRUCTION. ANY SUCH WORK REQUIRED SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT AND NO EXTRA COMPENSATION WILL BE GRANTED.
12. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING AND REPAIRING REQUIRED TO DO THIS WORK. REPAIRING OF WORK SHALL BE COMPARABLE TO WORK CUT. PAINT TO MATCH ADJACENT SURFACES OR AS DIRECTED BY ARCHITECT. COORDINATE WITH GENERAL CONTRACTOR.
13. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACK-SPLASHES ON CASEWORK SHOP DRAWINGS, AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS INDICATED AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACK-SPLASH OR IF NO BACK-SPLASH IS USED, 4" ABOVE COUNTERTOP.
14. DO NOT MOUNT OUTLETS BACK-T0-BACK. PROVIDE MINIMUM 24" SEPARATION IN FIRE RATED WALLS.
15. ALL OUTLETS IN EXPOSED CONCRETE BLOCKS SHALL BE ADJUSTED AS REQUIRED TO ALLOW CUTTING OF ONLY ONE BLOCK. MAINTAIN UNIFORM HEIGHTS THROUGHOUT THE BUILDING.
16. VERIFY ALL DOOR SWINGS WITH ARCHITECT PRIOR TO ROUGHING LIGHT SWITCHES.
17. CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
18. BRANCH CIRCUITS #12 A.W.G. AND 3/4" CONDUIT (GALVANIZED) MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER, SEE SPECIFICATIONS FOR TYPE INSULATION.
19. VOLTAGE DROP: FOR 20 AMP CIRCUITS OVER 100 FEET AND LESS THAN 175 FEET, USE #10 CONDUCTORS. FOR 20 AMP CIRCUITS OVER 175 FEET AND LESS THAN 275 FEET, USE #8 CONDUCTORS.
20. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
21. THE ATTACHED DRAWINGS WERE DEVELOPED FROM RECORD DRAWINGS AND INFORMATION PROVIDED BY OTHERS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. THE DESIGN TEAM SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CONFLICTS WITH DRAWINGS FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
22. FOR ALL SINGLE-PHASE CIRCUITS SHARING A NEUTRAL WITH OTHER SINGLE-PHASE CIRCUITS, CONTRACTOR SHALL INSTALL CIRCUIT BREAKER HANDLE TIES WHICH WILL PROVIDE FOR SIMULTANEOUS DISCONNECTION OF ALL CIRCUIT BREAKERS FOR CIRCUITS WHICH SHARE THE SAME NEUTRAL. HANDLE TIE SHALL NOT PREVENT THE REQUIRED TRIPPING OF A BREAKER.
23. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO ENGINEER PRIOR TO AWARDING OF CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
24. PROVIDE ARC FLASH WARNING LABELS ON EXISTING AND NEW PANELS THAT COMPLY WITH NEC110.16.
25. LABEL PANELS PER NEC110.24.
26. FIRE ALARM CONTRACTOR SHALL BE LICENSED WITH THE STATE FIRE MARSHALLS OFFICE AND SHALL BE NICET III CERTIFIED AT MINIMUM.


HYDE ENGINEERING, INC.
1525 Perimeter Parkway
Suite 275
Huntsville, Alabama 35801
(P) 256.270.8013
EMAIL: MORGAN@HYDE-EGR.COM


| ENGINEER | PROJECT # |
|---|---|
| Morgan B. Reyes | 23310.3 |


GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
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Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2/16/24 |

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CHECKED BY: MBR

NEW GYMNASIUM FOR MORGAN COUNTY
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

ALABAMA LICENSED NO. 35960 PROFESSIONAL ENGINEER MORGAN B. REYES 02/15/24

GMC AHUN230008

LEGEND AND NOTES

E001

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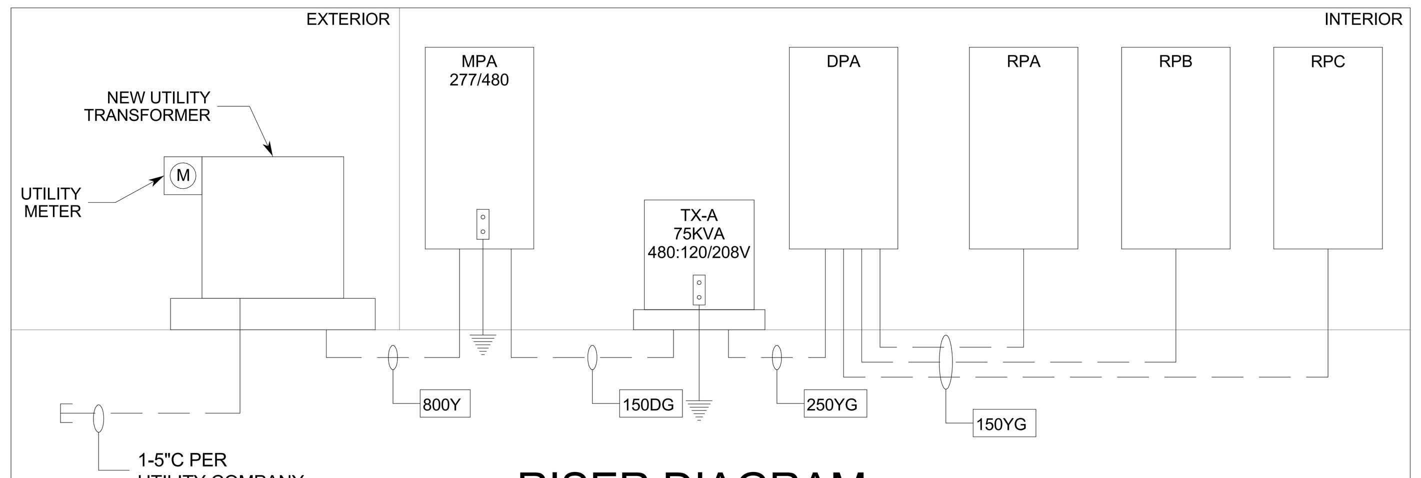
EXTERIOR | INTERIOR




# RISER DIAGRAM
## POWER DISTRIBUTION
NO SCALE

### FEEDER SCHEDULE

| | | | |
|---|---|---|---|
| 20SG | 2#12 & 1#12G.-1/2"C. | 20DG | 3#12 & 1#12G.-1/2"C. |
| 30SG | 2#10 & 1#10G.-3/4"C. | 40DG | 3#8 & 1#10G.-1"C. |
| 60SG | 2#6, 1#6G-1"C. | 60DG | 3#6 & 1#10G.-1 1/4"C. |
| 150DG | 3#1/0 & 1#6G.-2"C. | 150YG | 4#1/0 & 1#6G.-2 1/2"C. |
| 200DG | 3#3/0 & 1#6G.-2 1/2"C. | 225DG | 3#4/0 & 1#4G.-2 1/2"C. |
| 250YG | 4#250MCM & 1#4G.-3"C. | 420YG | 4#500MCM & 1#2G.-4"C. |
| 800Y | 2 SETS OF 4#500MCM -4"C. | | |

SERVICE NOTES:

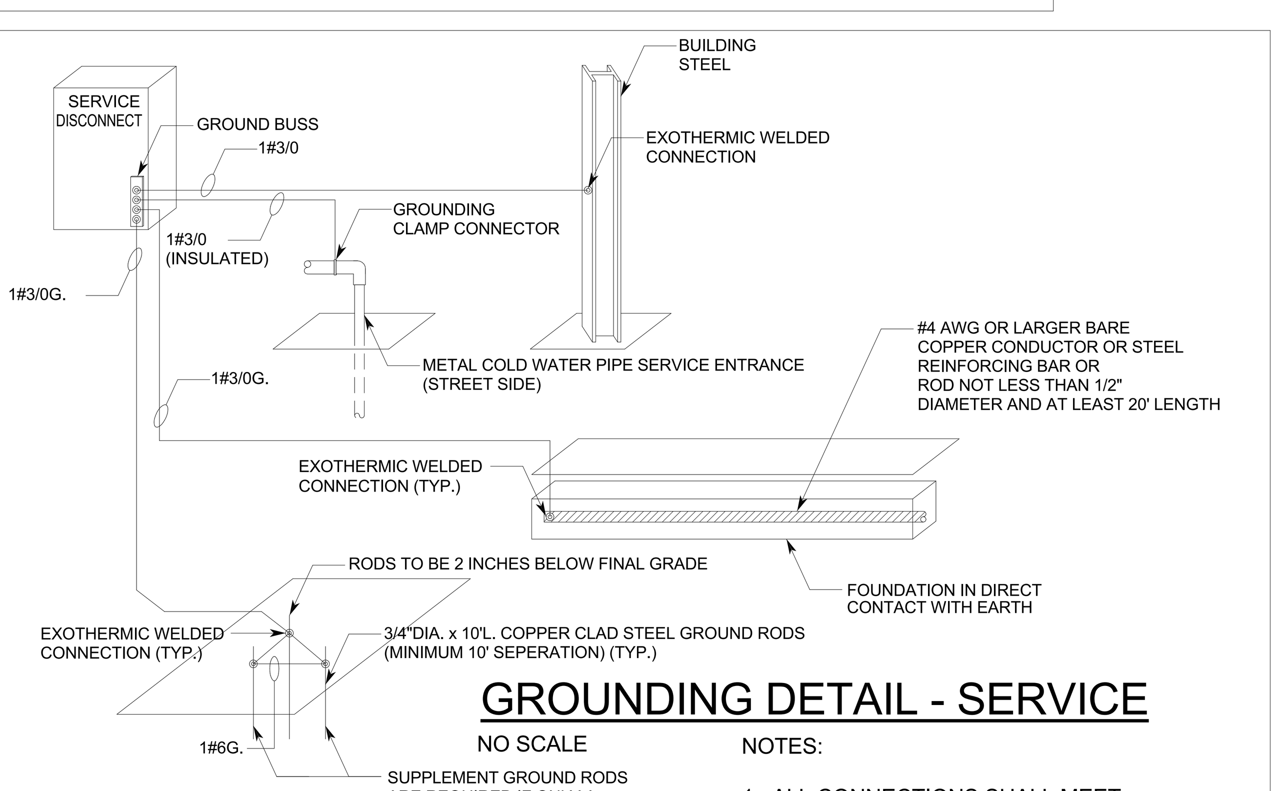
1. THE SECONDARY SERVICE: 277/480V, 3P, 4W., GROUNDED NEUTRAL, WYE CONNECTED AS SHOWN ON SINGLE LINE DIAGRAM.
2. ARRANGE WITH LOCAL ELECTRICAL SERVICE COMPANY FOR SERVICE TO BE BROUGHT TO BUILDING, AND FOR THE INSTALLATION OF METER. PAY ALL CHARGES (IF ANY) IN CONNECTION THEREWITH, INCLUDING PERMANENT METER DEPOSIT, WHICH DEPOSITS WILL BE REFUNDED TO CONTRACTOR AT TIME OF OWNER'S OCCUPANCY IN THE BUILDING.
3. VERIFY WITH UTILITY COMPANIES INVOLVED THAT LOCATIONS, ARRANGEMENT, POWER COMPANY VOLTAGE, PHASE, METERING REQUIRED, AND CONNECTIONS TO UTILITY SERVICE ARE IN ACCORDANCE WITH THEIR REGULATIONS AND REQUIREMENTS. IF THEIR REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND/OR SPECIFICATIONS, CONTRACT SHALL INCLUDE AN ADDITIONAL COST NECESSARY TO MEET THOSE REQUIREMENTS WITHOUT EXTRA COST TO OWNER AFTER BIDS ARE ACCEPTED.
4. OBTAIN FROM UTILITY COMPANY ANY ADDITIONAL CHARGES FOR SERVICE OF TYPE, SIZE, AND LOCATION CALLED FOR. INCLUDE CHARGES IN BID TO BE PAID BY CONTRACTOR TO APPROPRIATE PARTY. PROVIDE PAYMENT OF THESE CHARGES SO AS TO ALLOW LOGICAL PROGRESSION OF CONSTRUCTION AND AVOID DELAY OF COMPLETION.
5. COORDINATE SERVICE WORK WITH POWER COMPANY. FURNISH AND INSTALL ALL SERVICE RELATED ITEMS NOT PROVIDED BY THE POWER COMPANY. PERFORM WORK IN ACCORDANCE WITH THEIR REQUIREMENTS AND RECOMMENDATIONS.

RISER NOTES:

1. INDUSTRY AVERAGE EQUIPMENT SIZES WERE USED TO DETERMINE FIT AND WORKING CLEARANCES. E.C. IS TO VERIFY FIT AND WORKING CLEARANCES BASED ON ACTUAL EQUIPMENT CONSIDERED.
2. PROTECTIVE DEVICES RATED 800A & GREATER SHALL BE STATIC TRIP TYPE WITH LSI SETTINGS.
3. SEE FLOOR PLANS FOR PLACEMENT OF EQUIPMENT.
4. ALL EXTERIOR EQUIPMENT TO BE IN NEMA 3R ENCLOSURES.

SHORT CIRCUIT, COORDINATION, AND ARC FLASH:

1. ACTUAL AVAILABLE FAULT CURRENT DATA WAS NOT OBTAINED FROM THE POWER COMPANY. E.C. IS TO OBTAIN FAULT CURRENT DATA FROM POWER COMPANY.
2. E.C. TO PROVIDE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDIES FOR ALL NEW EQUIPMENT AS WELL AS EXISTING UPSTREAM EQUIPMENT.
3. STUDIES ARE TO START AT UTILITY SOURCE AND/OR GENERATOR AND INCLUDE ALL EXISTING UPSTREAM EQUIPMENT.
4. E.C. IS RESPONSIBLE FOR COLLECTING ALL DATA NECESSARY TO COMPLETE STUDY.
5. STUDIES ARE TO BE PERFORMED USING SKM POWERWARE, EASYPOWER, OR ETAP SOFTWARE UNDER THE SUPERVISION OF A REGISTERED ENGINEER. ARC FLASH STUDIES SHALL BE CONSISTENT WITH IEEE 1584.
6. PROVIDE PRELIMINARY STUDY REPORT AT TIME OF POWER EQUIPMENT SUBMITTALS. POWER EQUIPMENT SUBMITTALS WILL BE REJECTED WITHOUT PRELIMINARY STUDY.
7. USE RESULTS OF STUDY TO SELECT AIC RATINGS, BREAKER TYPES, ETC. FOR POWER EQUIPMENT PRIOR TO ORDERING EQUIPMENT.
8. MARK EQUIPMENT PER BOTH NFPA 70 AND 70E TO INCLUDE, BUT NOT LIMITED TO, ARC FLASH LABELS.
9. PROVIDE FINAL STUDY REPORT AS PART OF CLOSE-OUT DOCUMENTATION (BOTH HARD COPY AND ELECTRONIC PDF FORM).




# GROUNDING DETAIL - SERVICE
NO SCALE

NOTES:

1. ALL CONNECTIONS SHALL MEET NEC 250 REQUIREMENTS.
2. SEE BUS BAR DETAIL.

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PANEL: MPA
VOLTAGE: 277/480 | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 800A | MAIN CB TRIP: 800A MB
MOUNTING:SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 65,000

| DEVICE: | | BRANCH CIRCUIT | VOLT-AMPS | | | | | PHASE LOAD (VA) | | | BRANCH CIRCUIT | VOLT-AMPS | | | | | DEVICE: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPS TRIP | POLES | DESIGNATION | LTS | RCPT | HVAC | MISC | NO. | Φ A | Φ B | Φ C | NO. | MISC | HVAC | RCPT | LTS | DESIGNATION | POLES | AMPS TRIP |
| 175 | 3 | AHU-1 | | | 36000 | | 1 | 72000 | | | 2 | | 36000 | | | AHU-2 | 3 | 175 |
| | | | | | 36000 | | 3 | | 72000 | | 4 | | 36000 | | | | | |
| | | | | | 36000 | | 5 | | | 72000 | 6 | | 36000 | | | | | |
| 150 | 3 | ERU-GYM | | | 28544 | | 7 | 40211 | | | 8 | | 11667 | | | DOAS-1 | 3 | 60 |
| | | | | | 28544 | | 9 | | 40211 | | 10 | | 11667 | | | | | |
| | | | | | 28544 | | 11 | | | 40211 | 12 | | 11667 | | | | | |
| 20 | 1 | EWH-1A | | | 5000 | | 13 | 12095 | | | 14 | | 7095 | | | CU-1 | 3 | 40 |
| 20 | 1 | STORAGE 108 | | | | | 15 | | 7095 | | 16 | | 7095 | | | | | |
| 20 | 1 | GYM LIGHTING | | | | | 17 | | | 7095 | 18 | | 7095 | | | | | |
| 20 | 1 | INTERIOR LIGHTING | | | | | 19 | 5000 | | | 20 | | 5000 | | | EWH-1B | 1 | 20 |
| 20 | 1 | INTERIOR LIGHTING | | | | | 21 | | 0 | | 22 | | | | | SPARE | 1 | 20 |
| 20 | 1 | CONCESSIONS LIGHTING | | | | | 23 | | | 0 | 24 | | | | | SPARE | 1 | 20 |
| 20 | 1 | INTERIOR LIGHTING | | | | | 25 | 0 | | | 26 | | | | | SPARE | 1 | 20 |
| 20 | 1 | INTERIOR LIGHTING | | | | | 27 | | 0 | | 28 | | | | | SPARE | 1 | 20 |
| 20 | 1 | EXTERIOR LIGHTING | | | | | 29 | | | 0 | 30 | | | | | SPARE | 1 | 20 |
| 20 | 1 | GYM LIGHTING | | | | | 31 | 25903 | | | 32 | 3800 | 12103 | 10000 | | T-A/DPA | 3 | 150 |
| 20 | 1 | GYM LIGHTING | | | | | 33 | | 26572 | | 34 | 3888 | 12284 | 10400 | | | | |
| 20 | 1 | EXTERIOR LIGHTING | | | | | 35 | | | 22563 | 36 | 3288 | 8475 | 10800 | | | | |
| 20 | 1 | SITE LIGHTING | | | | | 37 | 4000 | | | 38 | 4000 | | | | EWH-1 | 3 | 20 |
| 20 | 1 | SITE LIGHTING | | | | | 39 | | 4000 | | 40 | 4000 | | | | | | |
| 20 | 1 | SPARE | | | | | 41 | | | 4000 | 42 | 4000 | | | | | | |

| DIVERSIFICATION (VA) | SUBTOTALS | TOTAL PHASE LOAD | | | DEMAND CALCULATIONS (NEC 220): | Φ A | Φ B | Φ C | REQUIRED AMPACITY |
|---|---|---|---|---|---|---|---|---|---|
| | | 159209 | 149878 | 145869 | LARGEST MOTOR | 0 | 0 | 0 | |
| LTS SUBTOTALS | 0 | 0 | 0 | 0 | RECEPT | 6666.5 | 6866.5 | 7066.5 | 569.77 AMPS |
| RCPT SUBTOTALS | 31200 | 10000 | 10400 | 10800 | LIGHTS | 0 | 0 | 0 | |
| HVAC SUBTOTALS | 400780 | 141409 | 131590 | 127781 | MISC | 9750 | 9860 | 9110 | |
| MISC SUBTOTALS | 22976 | 7800 | 7888 | 7288 | TOTAL DEMAND: | 157825.5 | 148316.5 | 143957.5 | |

PANEL: DPA
VOLTAGE: 120/208 | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 250A | MAIN CB TRIP: 250A MB
MOUNTING:SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 42,000

| DEVICE: | | BRANCH CIRCUIT | VOLT-AMPS | | | | | PHASE LOAD (VA) | | | BRANCH CIRCUIT | VOLT-AMPS | | | | | DEVICE: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPS TRIP | POLES | DESIGNATION | LTS | RCPT | HVAC | MISC | NO. | Φ A | Φ B | Φ C | NO. | MISC | HVAC | RCPT | LTS | DESIGNATION | POLES | AMPS TRIP |
| 60 | 2 | HP-1/AC-1A & 1B | | | 3828 | | 1 | 11828 | | | 2 | 2600 | | 5400 | | RPA | 3 | 150 |
| | | | | | 3828 | | 3 | | 11916 | | 4 | 2488 | | 5600 | | | | |
| 20 | 2 | HP-2/AC-2 | | | 750 | | 5 | | | 7438 | 6 | 2088 | | 4600 | | | | |
| | | | | | 750 | | 7 | 5550 | | | 8 | | 200 | 4600 | | RPB | 3 | 150 |
| 30 | 2 | HP-3/AC-3 | | | 1581 | | 9 | | 6681 | | 10 | 200 | 100 | 4800 | | | | |
| | | | | | 1581 | | 11 | | | 7981 | 12 | | 200 | 6200 | | | | |
| 30 | 2 | HP-4/AC-4 | | | 916 | | 13 | 2116 | | | 14 | 1200 | | | | RPC | 3 | 150 |
| | | | | | 916 | | 15 | | 2116 | | 16 | 1200 | | | | | | |
| 20 | 2 | HP-5/AC-5 | | | 750 | | 17 | | | 1950 | 18 | 1200 | | | | | | |
| | | | | | 750 | | 19 | 2331 | | | 20 | | 1581 | | | CU-DATA/AC-DATA | 2 | 30 |
| 30 | 2 | HP-6/AC-6 | | | 1581 | | 21 | | 3162 | | 22 | | 1581 | | | | | |
| | | | | | 1581 | | 23 | | | 3162 | 24 | | 1581 | | | CU-ELEC/AC-ELEC | 2 | 30 |
| 30 | 2 | HP-7/AC-7 | | | 1581 | | 25 | 3162 | | | 26 | | 1581 | | | | | |
| | | | | | 1581 | | 27 | | 1781 | | 28 | | 200 | | | BC-1 | 2 | 20 |
| 30 | 2 | HP-8/AC-8 | | | 916 | | 29 | | | 1116 | 30 | | 200 | | | | | |
| | | | | | 916 | | 31 | 916 | | | 32 | | | | | SPARE | 2 | 30 |
| 30 | 2 | HP-9/AC-9 | | | 916 | | 33 | | 916 | | 34 | | | | | | | |
| | | | | | 916 | | 35 | | | 916 | 36 | | | | | SPARE | 2 | 30 |
| 20 | 2 | SPARE | | | | | 37 | 0 | | | 38 | | | | | | | |
| | | | | | | | 39 | | 0 | | 40 | | | | | SPARE | 2 | 20 |
| 20 | 1 | SPARE | | | | | 41 | | | 0 | 42 | | | | | | | |

| DIVERSIFICATION (VA) | SUBTOTALS | TOTAL PHASE LOAD | | | DEMAND CALCULATIONS (NEC 220): | Φ A | Φ B | Φ C | REQUIRED AMPACITY |
|---|---|---|---|---|---|---|---|---|---|
| | | 25903 | 26572 | 22563 | LARGEST MOTOR | 0 | 0 | 0 | |
| LTS SUBTOTALS | 0 | 0 | 0 | 0 | RECEPT | 6666.5 | 6866.5 | 7066.5 | 200.09 AMPS |
| RCPT SUBTOTALS | 31200 | 10000 | 10400 | 10800 | LIGHTS | 0 | 0 | 0 | |
| HVAC SUBTOTALS | 32862 | 12103 | 12284 | 8475 | MISC | 4750 | 4860 | 4110 | |
| MISC SUBTOTALS | 10976 | 3800 | 3888 | 3288 | TOTAL DEMAND: | 23519.5 | 24010.5 | 19651.5 | |

PANEL: RPA
VOLTAGE: 120/208 | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 150A | MAIN CB TRIP: MLO
MOUNTING:SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 22,000

| DEVICE: | | BRANCH CIRCUIT | VOLT-AMPS | | | | | PHASE LOAD (VA) | | | BRANCH CIRCUIT | VOLT-AMPS | | | | | DEVICE: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPS TRIP | POLES | DESIGNATION | LTS | RCPT | HVAC | MISC | NO. | Φ A | Φ B | Φ C | NO. | MISC | HVAC | RCPT | LTS | DESIGNATION | POLES | AMPS TRIP |
| 20 | 1 | ELECTRICAL 104 | | 200 | | | 1 | 600 | | | 2 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | EWC | | 200 | | | 3 | | 800 | | 4 | | | 600 | | GYM/STORAGE RECEPT | 1 | 20 |
| 20 | 1 | EWC | | 200 | | | 5 | | | 600 | 6 | | | 400 | | GYM RECEPT | 1 | 20 |
| * 20 | 1 | VENDING MACHINES | | 1000 | | | 7 | 1400 | | | 8 | | | 400 | | GYM RECEPT | 1 | 20 |
| * 20 | 1 | VENDING MACHINES | | 1000 | | | 9 | | 1400 | | 10 | | | 400 | | GYM RECEPT | 1 | 20 |
| * 20 | 1 | VENDING MACHINES | | 1000 | | | 11 | | | 1400 | 12 | | | 400 | | GYM RECEPT | 1 | 20 |
| * 20 | 1 | VENDING MACHINES | | 1000 | | | 13 | 1200 | | | 14 | | | 200 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | SCOREBOARD | | | | 288 | 15 | | 688 | | 16 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | SCOREBOARD | | | | 288 | 17 | | | 688 | 18 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | MEN 105 | | | | 1000 | 19 | 1400 | | | 20 | | | 400 | | GYM FLOORBOX | 1 | 20 |
| 20 | 1 | MEN 105 | | | | 1000 | 21 | | 1400 | | 22 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | WOMEN 103 | | | | 1200 | 23 | | | 1400 | 24 | | | 200 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | WOMEN 103 | | | | 1000 | 25 | 1400 | | | 26 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | WOMEN 103 | | | | 1200 | 27 | | 1600 | | 28 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | SINKS MEN 105 | | | | 600 | 29 | | | 1000 | 30 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | SINKS WOMEN 103 | | | | 600 | 31 | 1000 | | | 32 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | EXTERIOR RECEPT. | | 800 | | | 33 | | 1200 | | 34 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 200 | | | 35 | | | 600 | 36 | | | 400 | | GYM FLOORBOX | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 37 | 1000 | | | 38 | | | 600 | | BLEACHER RECEPT | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 39 | | 1000 | | 40 | | | 600 | | BLEACHER RECEPT | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 41 | | | 1000 | 42 | | | 600 | | BLEACHER RECEPT | 1 | 20 |
| 20 | 1 | SPARE | | | | | 43 | 0 | | | 44 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 45 | | 0 | | 46 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 47 | | | 0 | 48 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 49 | 0 | | | 50 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 51 | | 0 | | 52 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 53 | | | 0 | 54 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 55 | 0 | | | 56 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 57 | | 0 | | 58 | | | | | SPARE | 1 | 20 |
| 20 | 1 | SPARE | | | | | 59 | | | 0 | 60 | | | | | SPARE | 1 | 20 |

| DIVERSIFICATION SUBTOTALS (VA) | | TOTAL PHASE LOAD | | | DEMAND CALCULATIONS (NEC 220): | Φ A | Φ B | Φ C | REQUIRED AMPACITY |
|---|---|---|---|---|---|---|---|---|---|
| | | 8000 | 8088 | 6688 | LARGEST MOTOR | 0 | 0 | 0 | |
| LTS SUBTOTALS | 0 | 0 | 0 | 0 | RECEPT | 4366.5 | 4466.5 | 3966.5 | 63.48 AMPS |
| RCPT SUBTOTALS | 3600 | 5400 | 5600 | 4600 | LIGHTS | 0 | 0 | 0 | |
| HVAC SUBTOTALS | 0 | 0 | 0 | 0 | MISC | 3250 | 3110 | 2610 | |
| MISC SUBTOTALS | 0 | 2600 | 2488 | 2088 | TOTAL DEMAND: | 7616.5 | 7576.5 | 6576.5 | |

*= GFCI TYPE BREAKER

PANEL: RPB
VOLTAGE: 120/208 | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 150A | MAIN CB TRIP: MLO
MOUNTING:SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 22,000

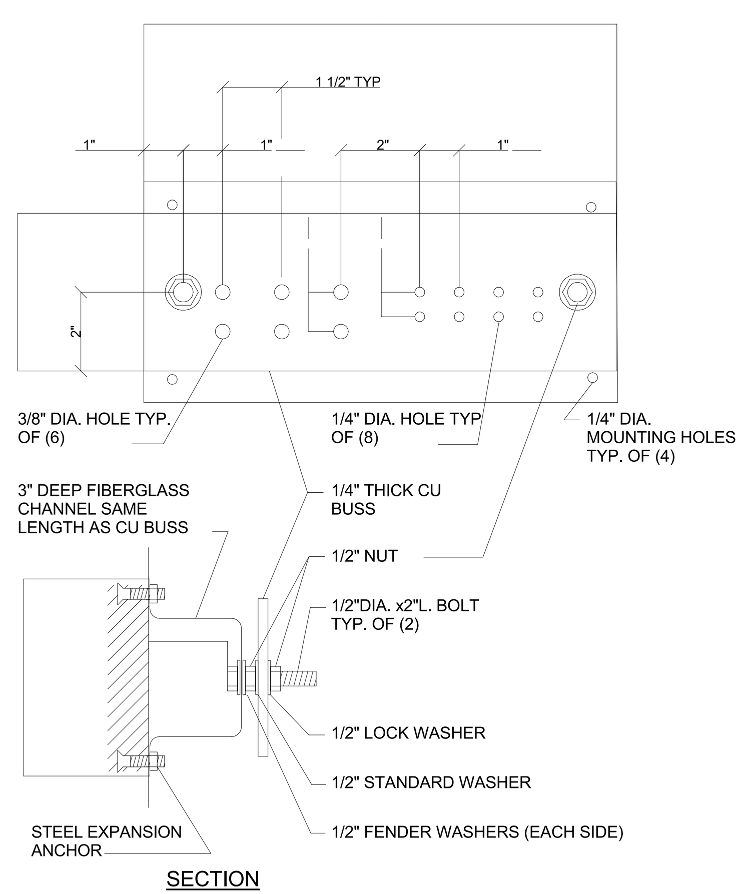
| DEVICE: | | BRANCH CIRCUIT | VOLT-AMPS | | | | | PHASE LOAD (VA) | | | BRANCH CIRCUIT | VOLT-AMPS | | | | | DEVICE: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPS TRIP | POLES | DESIGNATION | LTS | RCPT | HVAC | MISC | NO. | Φ A | Φ B | Φ C | NO. | MISC | HVAC | RCPT | LTS | DESIGNATION | POLES | AMPS TRIP |
| 20 | 1 | GYM FLOORBOX | | 400 | | | 1 | 1400 | | | 2 | | | 1000 | | ROOM 112 | 1 | 20 |
| 20 | 1 | BLEACHER RECEPT | | 600 | | | 3 | | 1000 | | 4 | | | 400 | | STORAGE 115 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 5 | | | 1600 | 6 | | | 1200 | | EXTERIOR RECEPT | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 7 | 400 | | | 8 | | | | | COOLER | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 9 | | 600 | | 10 | | | 200 | | CONCESSIONS 116 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 200 | | | 11 | | | 400 | 12 | | | 200 | | CONCESSIONS 116 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 200 | | | 13 | 400 | | | 14 | | | 200 | | CONCESSIONS 116 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 15 | | 800 | | 16 | | | 400 | | LOBBY ENTRY 100 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 17 | | | 600 | 18 | | | 200 | | LOBBY ENTRY 100 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 19 | 600 | | | 20 | | | 200 | | JANITOR 106 | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 21 | | 600 | | 22 | | | 200 | | OFFICE 102 | 1 | 20 |
| 20 | 1 | KITCHEN 110 | | 200 | | | 23 | | | 1400 | 24 | | | 1200 | | OFFICE 102 | 1 | 20 |
| 20 | 1 | KITCHEN 110 | | 200 | | | 25 | 600 | | | 26 | | | 400 | | MEN 105 | 1 | 20 |
| 20 | 1 | FREEZER | | | | | 27 | | 400 | | 28 | | | 400 | | WOMEN 103 | 1 | 20 |
| 20 | 1 | REFRIGERATOR | | | | | 29 | | | 200 | 30 | | | 200 | | MECHANICAL 101 | 1 | 20 |
| 20 | 1 | ICE MACHINE | | | | | 31 | 200 | | | 32 | | | 200 | | ELECTRICAL 104 | 1 | 20 |
| 20 | 1 | WARMING CARTS | | | | | 33 | | 400 | | 34 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | WARMING CARTS | | | | | 35 | | | 400 | 36 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | KITCHEN 110 | | 200 | | | 37 | 600 | | | 38 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | MICROWAVE | | | | | 39 | | 600 | | 40 | | | 600 | | HALL 201 | 1 | 20 |
| 20 | 1 | ROOM 111 | | 1200 | | | 41 | | | 1600 | 42 | | | 400 | | GYM RECEPT | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 43 | 400 | | | 44 | | | | | MEN 105 LIGHTING | 1 | 20 |
| 20 | 1 | GYM RECEPT | | 400 | | | 45 | | 400 | | 46 | | | | | WOMEN 103 LIGHTING | 1 | 20 |
| 20 | 1 | EF-1 | | | 100 | | 47 | | | 100 | 48 | | | | | SPARE | 1 | 20 |
| 20 | 1 | EF-2 | | | 100 | | 49 | 100 | | | 50 | | | | | SPARE | 1 | 20 |
| 20 | 1 | EF-3 | | | 100 | | 51 | | 100 | | 52 | | | | | SPARE | 1 | 20 |
| 20 | 1 | EF-4 | | | 100 | | 53 | | | 100 | 54 | | | | | P-1 | 2 | 20 |
| 20 | 1 | EF-5 | | | 100 | | 55 | 100 | | | 56 | | | | | | | |
| 20 | 1 | CP-1 | | | | 200 | 57 | | 200 | | 58 | | | | | P-2 | 2 | 20 |
| 20 | 1 | SPARE | | | | | 59 | | | 0 | 60 | | | | | | | |

| DIVERSIFICATION SUBTOTALS (VA) | | TOTAL PHASE LOAD | | | DEMAND CALCULATIONS (NEC 220): | Φ A | Φ B | Φ C | REQUIRED AMPACITY |
|---|---|---|---|---|---|---|---|---|---|
| | | 4800 | 5100 | 6400 | LARGEST MOTOR | 0 | 0 | 0 | |
| LTS SUBTOTALS | 0 | 0 | 0 | 0 | RECEPT | 3966.5 | 4066.5 | 4766.5 | 41.39 AMPS |
| RCPT SUBTOTALS | 4000 | 4600 | 4800 | 6200 | LIGHTS | 0 | 0 | 0 | |
| HVAC SUBTOTALS | 500 | 200 | 100 | 200 | MISC | 0 | 250 | 0 | |
| MISC SUBTOTALS | 200 | 0 | 200 | 0 | TOTAL DEMAND: | 4166.5 | 4416.5 | 4966.5 | |

PANEL: RPC
VOLTAGE: 120/208 | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 150A | MAIN CB TRIP: MLO
MOUNTING:SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 22,000

| DEVICE: | | BRANCH CIRCUIT | VOLT-AMPS | | | | | PHASE LOAD (VA) | | | BRANCH CIRCUIT | VOLT-AMPS | | | | | DEVICE: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPS TRIP | POLES | DESIGNATION | LTS | RCPT | HVAC | MISC | NO. | Φ A | Φ B | Φ C | NO. | MISC | HVAC | RCPT | LTS | DESIGNATION | POLES | AMPS TRIP |
| 20 | 3 | GOAL POWER | | | | 100 | 1 | 200 | | | 2 | 100 | | | | GOAL POWER | 3 | 20 |
| | | | | | | 100 | 3 | | 200 | | 4 | 100 | | | | | | |
| | | | | | | 100 | 5 | | | 200 | 6 | 100 | | | | | | |
| 20 | 3 | GOAL POWER | | | | 100 | 7 | 200 | | | 8 | 100 | | | | GOAL POWER | 3 | 20 |
| | | | | | | 100 | 9 | | 200 | | 10 | 100 | | | | | | |
| | | | | | | 100 | 11 | | | 200 | 12 | 100 | | | | | | |
| 20 | 3 | GOAL POWER | | | | 100 | 13 | 200 | | | 14 | 100 | | | | GOAL POWER | 3 | 20 |
| | | | | | | 100 | 15 | | 200 | | 16 | 100 | | | | | | |
| | | | | | | 100 | 17 | | | 200 | 18 | 100 | | | | | | |
| 20 | 3 | GOAL POWER | | | | 100 | 19 | 200 | | | 20 | 100 | | | | GOAL POWER | 3 | 20 |
| | | | | | | 100 | 21 | | 200 | | 22 | 100 | | | | | | |
| | | | | | | 100 | 23 | | | 200 | 24 | 100 | | | | | | |
| 20 | 3 | GOAL POWER | | | | 100 | 25 | 200 | | | 26 | 100 | | | | GOAL POWER | 3 | 20 |
| | | | | | | 100 | 27 | | 200 | | 28 | 100 | | | | | | |
| | | | | | | 100 | 29 | | | 200 | 30 | 100 | | | | | | |
| 20 | 3 | GOAL POWER | | | | 100 | 31 | 200 | | | 32 | 100 | | | | GOAL POWER | 3 | 20 |
| | | | | | | 100 | 33 | | 200 | | 34 | 100 | | | | | | |
| | | | | | | 100 | 35 | | | 200 | 36 | 100 | | | | | | |
| 20 | 3 | SPARE | | | | | 37 | 0 | | | 38 | | | | | SPARE | 3 | 20 |
| | | | | | | | 39 | | 0 | | 40 | | | | | | | |
| | | | | | | | 41 | | | 0 | 42 | | | | | | | |

| DIVERSIFICATION (VA) | SUBTOTALS | TOTAL PHASE LOAD | | | DEMAND CALCULATIONS (NEC 220): | Φ A | Φ B | Φ C | REQUIRED AMPACITY |
|---|---|---|---|---|---|---|---|---|---|
| | | 1200 | 1200 | 1200 | LARGEST MOTOR | 0 | 0 | 0 | |
| LTS SUBTOTALS | 0 | 0 | 0 | 0 | RECEPT | 0 | 0 | 0 | 12.5 AMPS |
| RCPT SUBTOTALS | 0 | 0 | 0 | 0 | LIGHTS | 0 | 0 | 0 | |
| HVAC SUBTOTALS | 0 | 0 | 0 | 0 | MISC | 1500 | 1500 | 1500 | |
| MISC SUBTOTALS | 3600 | 1200 | 1200 | 1200 | TOTAL DEMAND: | 1500 | 1500 | 1500 | |




GENERAL NOTES
1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.
4. PROVIDE ONE IN MAIN ELECTRICAL ROOM AND ONE IN COMM ROOM. ROUTE 1#6 COPPER BETWEEN BUS BARS.
5. CONNECT BUS BAR IN ELECTRIC ROOM TO MAIN BUILDING SOUND SYSTEM PER DETAIL.

# BUS BAR DETAIL
NO SCALE


HYDE ENGINEERING, INC.
1525 Perimeter Parkway
Suite 275
Huntsville, Alabama 35801
(P) 256.270.8013
E-MAIL: MORGAN@HYDE-EGR.COM

ENGINEER: Morgan B. Reyes | PROJECT #: 23310.3

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
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GMCNETWORK.COM


Morgan County, Alabama

| ISSUE | DATE |
|---|---|
| ISSUED FOR BID | 2/16/24 |

DRAWN BY: BR
CHECKED BY: MBR

**NEW GYMNASIUM FOR MORGAN COUNTY**
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA LICENSED NO. 35960 PROFESSIONAL ENGINEER MORGAN B. REYES
02/15/24

**RISER DIAGRAM AND PANEL SCHEDULES**

# E002

# LIGHT FIXTURE SCHEDULE

| MARK | DESCRIPTION | LAMPS | MANUFACTURER |
|---|---|---|---|
| LPA (EPA) | ROUND LED HIGHBAY SELECTABLE LUMENS AND CCT, 277V, 4000K, WIREGUARD PENDANT MOUNTED ON 3/4" CONDUIT AND SAFETY CABLE (WITH EMERGENCY BATTERY) | 36,000LM MAX / 237W MAX | METALUX #UHBS-2436-MV-L84050-U-(EBP-RM40R)-WC-UHBS-ADAPHUB-UHBS-SC7 OR APPROVED EQUAL |
| LPB (EPB) | 4' LED LINEAR PENDANT MOUNT FIXTURE, 277V, 3500K MOUNT TIGHT TO STRUCTURE | 6000LM / 56W | METALUX #4SNLED-LD5-64SL-SLW-UNV-L835-CDI-U-(EL14W) OR APPROVED EQUAL |
| LTA (ETA) | 2 X 4 LED FLAT PANEL, SELECTABLE LUMENS AND CCT, 277V, (WITH EMERGENCY BATTERY) | 6300LM MAX / 57W MAX | METALUX #24FPSL2SCT3-(EL10W) OR APPROVED EQUAL |
| LTB (ETB) | 2 X 2 LED FLAT PANEL, SELECTABLE LUMENS AND CCT, 277V, (WITH EMERGENCY BATTERY) | 3500LM MAX / 31W MAX | METALUX #22FPSL2SCT3-(EL10W) OR APPROVED EQUAL |
| LRA (ERA) | 6" LED RECESSED CAN LIGHT, 277V, 3500K (WITH EMERGENCY BATTERY) | 2000LM / 21.9W | SPECTRUM LIGHTING #SGEG6LEDFX-20L-35K-DX-(EM)-BH27-AR6223FX-SD-MF-S0 OR APPROVED EQUAL |
| PL1 | LED POLE MOUNTED AREA LIGHT, 277V, 4000K, TYPE 5 DISTRIBUTION MOUNTED ON 27' TALL SQUARE STEEL POLE ON 3' A.F.G. CONCRETE BASE | LM / 247W | LUMARK #PRV-X2-PA3B-740-U-5WQ-SA-FINISH OR APPROVED EQUAL |
| PL2 | LED POLE MOUNTED AREA LIGHT, 277V, 4000K, TYPE 3 DISTRIBUTION MOUNTED ON 27' TALL SQUARE STEEL POLE ON 3' A.F.G. CONCRETE BASE | LM / 190W | LUMARK #PRV-X2-PA3A-740-U-T3-SA-FINISH OR APPROVED EQUAL |
| SWA | LED 4' STAIRWELL FIXTURE, 277V, WITH INTEGRAL OCCUPANCY SENSOR AND BATTERY | 2800LM / 24.8W | METALUX #4SWLED-32SL-LW-UNV-L832-HCDI-SVPD2 OR APPROVED EQUAL |
| WSA | LED EXTERIOR WALL SCONCE WITH EMERGENCY BATTERY, 277V, 4000K | 4534LM / 34.2W | MCGRAW EDISON #ISS-SA1C-740-U-T4FT-FINISH-CBP OR APPROVED EQUAL |
| WSB | LED EXTERIOR WALL PACK, 277V, 4000K, TYPE 4 DISTRIBUTION, MOUNTED AT +24'0" A.F.G. OR AT 18'0" A.F.G. SEE E202 | 16,000LM / 109W | NLS #NV-W2-T4-64L-7-40K7-UNV-WM-FINISH OR APPROVED EQUAL |
| WSC | LED EXTERIOR WALL PACK, 277V, 4000K, TYPE 4 DISTRIBUTION, | LM / W | NLS #NV-W-T3-16L-1050-40K7-UNV-WM-FINISH OR APPROVED EQUAL |
| WSD | LED RESTROOM VANITY LIGHT, 3000K, 120V, PROVIDE RELAY FOR FIXTURES TO OPERATE WITH THE REMAINING RESTROOM LIGHTS | 1300LM / 20W | LUMENS #ARTURO LED VANITY LIGHT MEDIUM (27" X 5") OR APPROVED EQUAL |
| XC | EXIT EMERGENCY SIGN WITH BATTERY | | SURELITES #APCH OR APPROVED EQUAL |

NOTES:

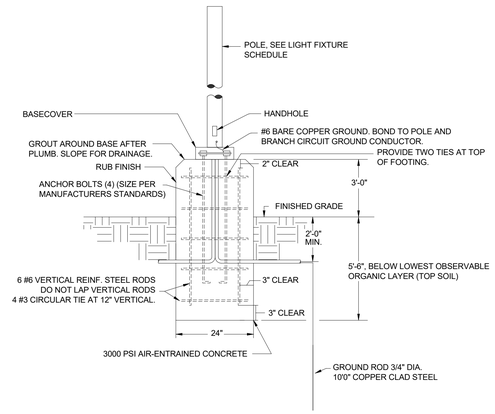
1. MANUFACTURER'S PART NUMBERS ARE FOR LEVEL OF QUALITY AND PERFORMANCE. E.C. IS TO PROVIDE ALL OPTIONS AND ACCESSORIES TO COMPLY WITH DESCRIPTION AS WELL AS MODEL NOS.
2. 10 DAY PRIOR APPROVAL IS REQUIRED ON ALL FIXTURES NOT SPECIFICALLY CALLED OUT OR LISTED AS "OR EQUAL."
3. E.C. IS TO COORDINATE FIXTURE COLORS AND LAMP TEMPERATURES WITH ARCHITECT PRIOR TO ORDERING.
4. E.C. IS TO VERIFY CEILING TYPE AND COMPATIBILITY WITH FIXTURES PRIOR TO ORDERING.
5. FUSE FIXTURES IN FIELD.
6. SEE LIGHTING PLANS FOR LIGHTING CONTROL NOTES.

# EQUIPMENT SCHEDULE

| MARK | DESCRIPTION | ELECTRICAL CHARACTERISTICS VOLT/PHASE | KW | HP | FLA | PANEL | DISCONNECT SW. SIZE | FUSE | FEEDER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| AHU 1 | AIR HANDLER UNIT | 480/3 | 108 | 25 | 136 | MPA | 200 | 175 | 200DG | 1,2,4 |
| AHU 2 | AIR HANDLER UNIT | 480/3 | 108 | 25 | 136 | MPA | 200 | 175 | 200DG | 1,2,4 |
| ERU GYM | ENERGY RECOVERY UNIT | 480/3 | 80 | | 103 | MPA | 200 | 150 | 150DG | 1,2,4 |
| DOAS 1 | OUTDOOR AIR SYSTEM | 480/3 | 35 | 1 | 43.2 | MPA | 60 | 60 | 60DG | 1,2,3,4 |
| CU 1 | COOLING UNIT | 480/3 | | | 25.6 | MPA | 60 | 40 | 40DG | 1,2,3,4 |
| AC 1A | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-1 | 60 | 60 | NOTE 5 | 1,2,4,5 |
| AC 1B | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-1 | 60 | 60 | NOTE 5 | 1,2,4,5 |
| AC 2 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-2 | 20 | 20 | NOTE 5 | 1,2,4,5 |
| AC 3 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-3 | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC 4 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-4 | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC 5 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-5 | 30 | 20 | NOTE 5 | 1,2,4,5 |
| AC 6 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-6 | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC 7 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-7 | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC 8 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-8 | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC 9 | INDOOR SPLIT SYSTEM | 208/1 | | | | HP-9 | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC DATA | INDOOR SPLIT SYSTEM | 208/1 | | | | CU-DATA | 30 | 30 | NOTE 5 | 1,2,4,5 |
| AC ELEC | INDOOR SPLIT SYSTEM | 208/1 | | | | CU-ELEC | 30 | 30 | NOTE 5 | 1,2,4,5 |
| HP 1 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 36.8 | DPA | 60 | 60 | 60SG | 1,2,3,4 |
| HP 2 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 7.2 | DPA | 20 | 20 | 20SG | 1,2,3,4 |
| HP 3 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 15.2 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| HP 4 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 8.8 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| HP 5 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 7.2 | DPA | 30 | 20 | 20SG | 1,2,3,4 |
| HP 6 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 15.2 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| HP 7 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 15.2 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| HP 8 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 8.8 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| HP 9 | OUTDOOR SPLIT SYSTEM | 208/1 | | | 8.8 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| CU DATA | OUTDOOR SPLIT SYSTEM | 208/1 | | | 15.2 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| CU ELEC | OUTDOOR SPLIT SYSTEM | 208/1 | | | 15.2 | DPA | 30 | 30 | 30SG | 1,2,3,4 |
| BC 1 | BRANCH CONTROLLER | 208/1 | | | 1 | DPA | 30 | 20 | 20SG | 1,2,4 |
| EWH 1A | ELECTRIC WALL HEATER | 277/1 | 5 | | 18.1 | MPA | WITH SWITCH | | 30SG | 1,2,4 |
| EWH 1B | ELECTRIC WALL HEATER | 277/1 | 5 | | 18.1 | MPA | WITH SWITCH | | 30SG | 1,2,4 |
| EF 1 | EXHAUST FAN | 120/1 | | 1/6 | | RPB | MOTOR RATED SWITCH | | 20SG | 1,2,4,6 |
| EF 2 | EXHAUST FAN | 120/1 | | 1/6 | | RPB | MOTOR RATED SWITCH | | 20SG | 1,2,4,6 |
| EF 3 | EXHAUST FAN | 120/1 | .0367 | | | RPB | MOTOR RATED SWITCH | | 20SG | 1,2,4,6 |
| EF 4 | EXHAUST FAN | 120/1 | .0903 | | | RPB | MOTOR RATED SWITCH | | 20SG | 1,2,4,6 |
| EF 5 | EXHAUST FAN | 120/1 | | 1/6 | | RPB | MOTOR RATED SWITCH | | 20SG | 1,2,4,6 |
| EWH 1 | ELECTRIC WATER HEATER | 480/3 | 12 | | | MPA | 30 | 20 | 20DG | 1,2,4 |
| CP 1 | CIRCULATION PUMP | 120/1 | | | | RPB | MOTOR RATED SWITCH | | 20SG | 1,2 |
| P 1 | SEWER SYSTEM PUMP | 208/1 | | | | RPB | 30 | 20 | 20DG | 1,2,3,4,7 |
| P 2 | SEWER SYSTEM PUMP | 208/1 | | | | RPB | 30 | 20 | 20DG | 1,2,3,4,7 |

NOTES:

1. VERIFY NAMEPLATE DATA PRIOR TO ROUGH-IN.
2. PROVIDE REQUIRED WORKING CLEARANCE FOR ALL DISCONNECTS.
3. ALL OUTDOOR EQUIPMENT TO BE NEMA 3R.
4. FUSE TO BE DUAL ELEMENT TYPE.
5. COORDINATE EXACT FUSE SIZE REQUIRED FOR INDOOR UNIT PRIOR TO PURCHASE. PROVIDE WHAT'S SHOWN AS A MINIMUM FOR BID PURPOSES. WIRING BETWEEN INDOOR AND OUTDOOR UNITS IS BY THE MECHANICAL CONTRACTOR.
6. PROVIDE RELAY SUCH THAT 120V FAN CAN INTERLOCK WITH 277V LIGHTING FOR OPERATION WHEN LIGHTS ARE ON.
7. COORDINATE SEWER SYSTEM PUMP LOCATIONS WITH CIVIL PLANS.




## POLE MOUNTED FIXTURE DETAIL
NO SCALE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PROJECT #
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ALABAMA LICENSED PROFESSIONAL ENGINEER MORGAN B. REYES 35960
02/15/24

GMC AHUN230008

SCHEDULES AND DETAILS

E003

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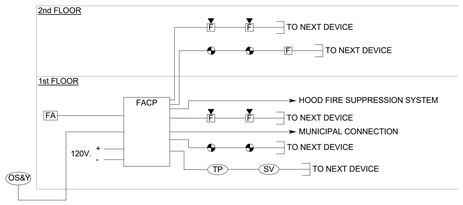



## RISER DIAGRAM
### FIRE ALARM SYSTEM
NO SCALE

NOTES:

1. PROVIDE WIRING IN CONDUIT PER MANUFACTURER'S REQUIREMENTS.

2. SEE FLOOR PLAN FOR LOCATION AND QUANTITY OF DEVICES.

3. FIRE ALARM SYSTEM LAYOUT IS DIAGRAMMATIC ONLY. PROVIDE ADDITIONAL DEVICES AS REQUIRED BY CODE AND LOCAL AUTHORITIES.

4. ACTIVATION OF KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL TRIP BREAKERS FOR ALL EQUIPMENT UNDER HOOD INCLUDING LIGHTS AND SUPPLY FAN.

5. COORDINATE LOCATIONS AND CONNECTIONS OF HVAC SHUTDOWN RELAYS WITH HVAC/CONTROLS VENDOR.

6. PROVIDE VOICE EVAC SYSTEM.

7. PROVIDE ADDRESSABLE SYSTEM.

8. PROVIDE CONNECTION FOR TAMPER & FLOW SWITCHES AND OS&Y VALVE. SEE CIVIL/PLUMBING PLANS FOR LOCATIONS.

9. PROVIDE FOR 15% GROWTH.

10. IF NOT SHOWN ON FLOOR PLANS PROVIDE 120V. CIRCUIT FOR FACP POWER. BREAKER SHALL BE RED IN COLOR AND LABELED AS "FIRE ALARM CIRCUIT".

11. PROVIDE TERMINAL CABINETS, NAC PANELS AS REQUIRED PER PROPOSED FIRE ALARM SYSTEM.

12. IF NOT SHOWN ON FLOOR PLAN, PROVIDE POWER TO NAC PANELS FROM FLOOR RECEPTACLE PANEL (AS REQUIRED).

13. PROVIDE REMOTE STATUS & TEST LOCATION FOR DEVICES NOT READILY VISIBLE OR ACCESSIBLE.

14. INTERFACE TO SECURITY SYSTEM. PROVIDE DRY CONTACT CLOSURE. PROVIDE CABLING IN CONDUIT.

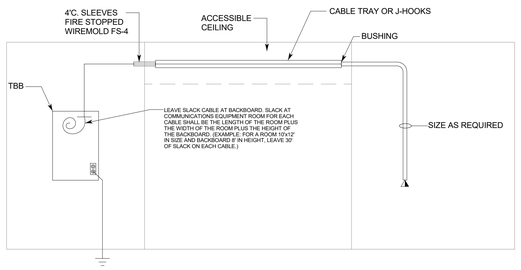
15. ON ALARM, ALL DOORS IN EGRESS PATH TO UNLOCK. COORDINATE PROVISION OF POTS PHONELINES WITH OWNER/COM PROVIDER. COORDINATE PROVISION OF POTS PHONELINES WITH OWNER/COM PROVIDER.

16. PROVIDE SMOKE DETECTORS AND INTERFACE TO SMOKE/FIRE DAMPERS AND SMOKE DAMPERS. COORDINATE QUANTITIES AND LOCATIONS WITH HVAC VENDOR.

17. VERIFY FINISH OF ALL FIRE ALARM DEVICES WITH ARCHITECT PRIOR TO ORDERING.

18. FIRE ALARM VENDOR IS RESPONSIBLE FOR REVIEWING ENTIRE CONSTRUCTION DOCUMENT PACKAGE FOR ADDITIONAL FIRE ALARM REQUIREMENTS THAT MAY BE INCLUDED ON OTHER DISCIPLINES' DRAWINGS AND SPECIFICATIONS, TO INCLUDE BUT NOT LIMITED TO, PLUMBING, CIVIL, MECHANICAL, ELEVATOR, A/V, THEATRICAL LIGHTING, FOOD SERVICE, AND SECURITY.

(2) STATION OUTLETS




## DETAIL
### DATA CONDUIT REQUIREMENTS
NO SCALE

NOTES:

1. DATA CABLES ARE TO BE INSTALLED IN CONDUIT IN EXPOSED AREAS.

## DATA STATION CABLE SPECIFICATIONS (CAT6A)

### MODULAR JACKS FOR 2-PORT DATA OUTLETS

XD — INDICATES:
WALL OUTLET FOR DATA STATION. X = NUMBER OF DATA JACKS
8 PIN STAINLESS STEEL (CAT6A/568B) EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-SS-L-XX WITH YELLOW LABELS FOR CAT 6A DATA TO BE INSTALLED BY CONTRACTOR. WALL MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.

X C — INDICATES:
DATA JACK ABOVE CEILING OR SURFACE MOUNT TO EXPOSED STRUCTURE. X = NUMBER OF DATA JACKS

CAM — ROUGH IN FOR CAMERA
ROUTE 1 CAT6 CABLE TO TBB.

NOTE:

DATA JACKS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.

"C" INDICATES A DATA JACK ABOVE CEILING OR SURFACE MOUNTED TO STRUCTURE. CAT6A CABLE TO BE USED. NUMBER OF CABLES AS INDICATED.

### CABLE FOR 2-PORT DATA OUTLETS (EXAMPLE)

1. THE FOLLOWING CABLES SHALL BE USED FOR ALL 2-PORT DATA STATIONS:

   NON-PLENUM AREAS:
   DATA(1): GENERAL 4 PAIR CAT6A PT. #7133902
   DATA(2): GENERAL 4 PAIR CAT6A PT. #7133902
   DATA CABLE COLOR YELLOW
   PLENUM AREAS:
   DATA(1): GENERAL 4 PAIR CAT6A PT. #7131902
   DATA(2): GENERAL 4 PAIR CAT6A PT. #7131902
   DATA CABLE COLOR YELLOW

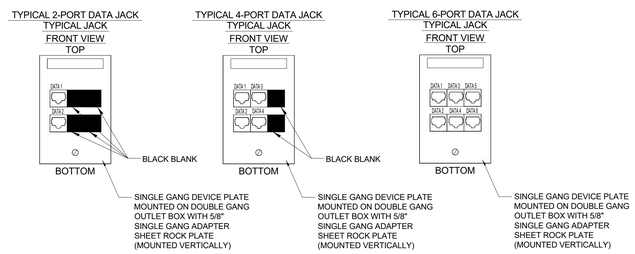
2. THE CONTRACTOR SHALL IDENTIFY AND STENCIL ALL STATION CABLES AS FOLLOWS:

   ALL STATION CABLES SHALL BE DESIGNATED WITH THE TYPE AND UNIQUE JACK NUMBER (SEE BELOW) NEATLY WITH A PERMANENT MARKER OR WITH A 3M SCOTCHCODE IDENTIFICATION SYSTEM INDICATING LETTERS AND NUMBERS.
   XX-YYY = UNIQUE JACK #
   XX = FLOOR NUMBER & YYY = UNIQUE JACK NUMBER

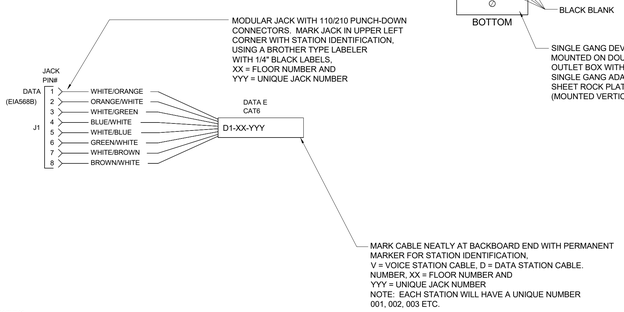
   A. 2-PORT WIRELESS STATIONS
   (1) 4 PAIR DATA(1): D1-001
   (1) 4 PAIR DATA(2): D2-001
   B. 2-PORT DATA STATIONS
   (1) 4 PAIR DATA(1): D1-002
   (1) 4 PAIR DATA(2): D2-002

3. PROVIDE TWO (2) 4 PAIR DATA FROM EACH OUTLET TO THE DESIGNATED COMMUNICATION BACKBOARD. CABLE SHALL BE 24 A.W.G. AND BE COLOR CODED AS FOLLOWS:

   4 PAIR - WHITE/BLUE, WHITE/ORANGE, WHITE/GREEN, WHITE/BROWN




TYPICAL DATA STATION CABLING




NOTES:
1. CONDUIT SIZING SHALL BE AS FOLLOWS: 1 OUTLET - 3/4"C., 2 OUTLETS - 1"C., 3 OUTLETS - 1-1/4"C., 4 OUTLETS - 1-1/2"C., 4 OUTLETS IS THE MAXIMUM FOR ANY HOMERUN.
2. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE VOICE/DATA JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY CONTRACTOR. AFTER TERMINATION, CONTRACTOR SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPOSITION. THE CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLIC PERFORMANCE CRITERIA.
3. CONTRACTOR SHALL CONTACT OWNER 45 DAYS PRIOR TO TOTAL COMPLETION OF THE PROJECT TO INDICATE THEIR COMPLETION DATE FOR ALL STATION DROPS.
4. PROVIDE WRITTEN CABLE REPORT/MAP. COORDINATE FORMAT WITH OWNER.
5. FURNISH AND INSTALL RACKS IN IDF/IT ROOMS AS NOTED:
   A. A 4 POST 7' TALL, FLOOR MOUNTED RACK WITH CABLE MANAGEMENT AND PDU'S
6. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED PATCH PANELS (PANDUIT PREFERRED) WITH 15% EXTRA CAPACITY AT EACH RACK.
7. CONTRACTOR SHALL FURNISH AN ASSORTMENT OF PATCH CABLES IN A RANGE OF LENGTHS (3", 6", 12"), NOT LESS THAN 20 OF EACH LENGTH.
8. CABLING JACKET COLORS MAY VARY BY DROP. JACKET COLOR TO BE SELECTED BY OWNER AT SUBMITTAL TIME.

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Morgan County, Alabama

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ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 35960 MORGAN B. REYES
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DETAILS

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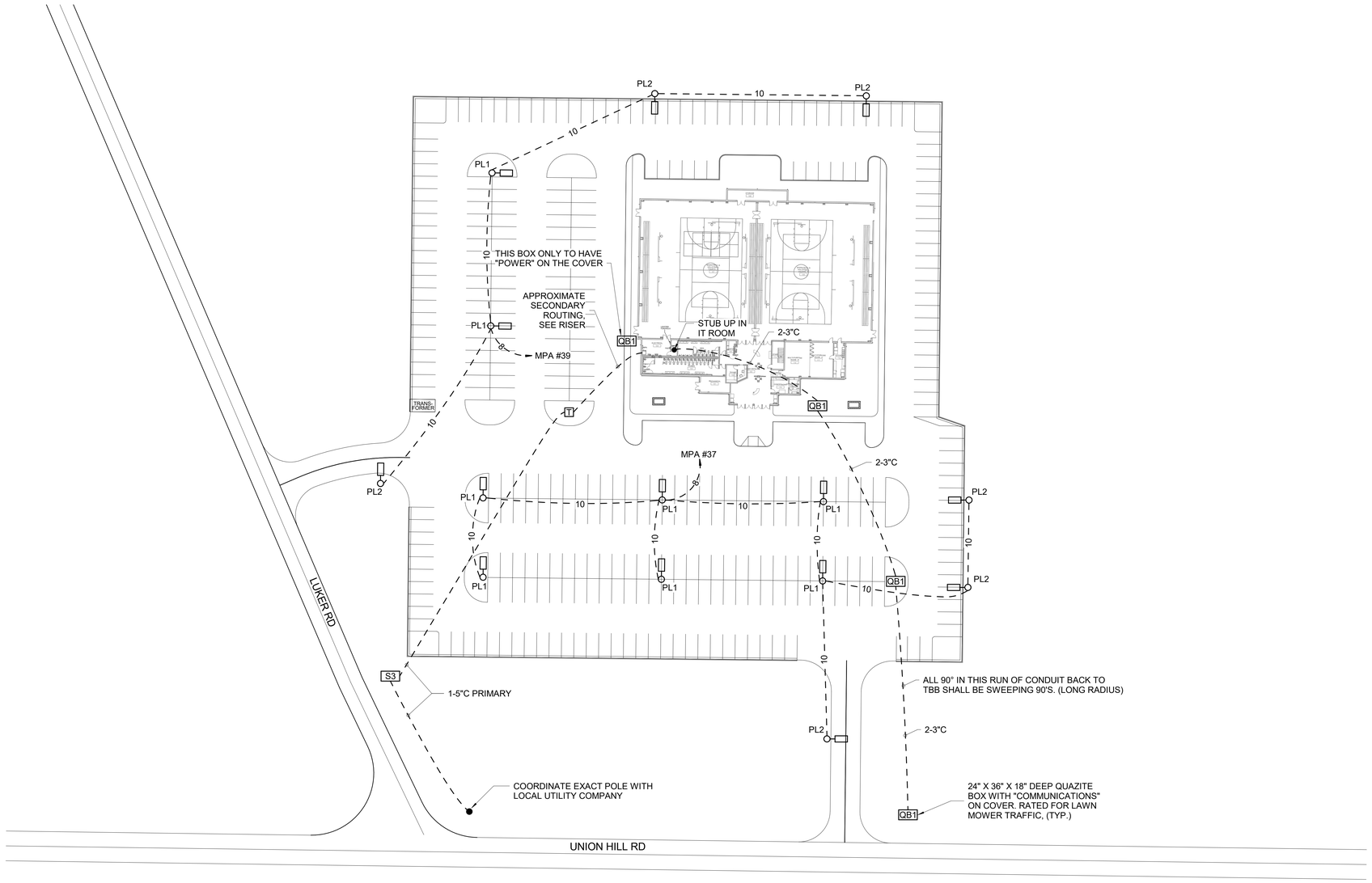


1 SITE PLAN - ELECTRICAL
1" = 40'-0"

SITE NOTES:

1. COORDINATE NEW ELECTRICAL SERVICE WITH POWER COMPANY. VERIFY LOCATIONS OF TRANSFORMER AND DIRECTION OF PRIMARY FEEDERS. VERIFY NEW POLE LOCATION, CONDUIT REQUIREMENTS (IF ANY), AND METER LOCATIONS PRIOR TO BID. INCLUDE ALL CHARGES IN BID.
2. COORDINATE NEW TELEPHONE SERVICE WITH PHONE COMPANY. PROVIDE CONDUITS PER TELEPHONE COMPANY REQUIREMENTS. INCLUDE ALL PHONE COMPANY CHARGES IN BID. VERIFY LOCATION OF SYSTEM TIE-IN PRIOR TO BID.
3. COORDINATE SIGNAGE REQUIREMENTS WITH VENDOR. ADJUST CIRCUITS AS NECESSARY.
4. COORDINATE NEW CABLE SERVICE WITH CABLE COMPANY. INCLUDE ALL CHARGES IN BID.
5. ALL EXTERIOR LIGHTING AND SIGNAGE TO BE CIRCUITED THROUGH PHOTOCELL/TIMECLOCK.
6. COORDINATE LOCATIONS OF FIXTURE POLES WITH EXISTING OVERHEAD UTILITIES. IF REQUIRED ADJUST POLE LOCATIONS AS NECESSARY.
7. RELOCATE EXISTING OVERHEAD UTILITIES IF REQUIRED. INCLUDE CHARGES IN BID.

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SITE PLAN - ELECTRICAL

E101

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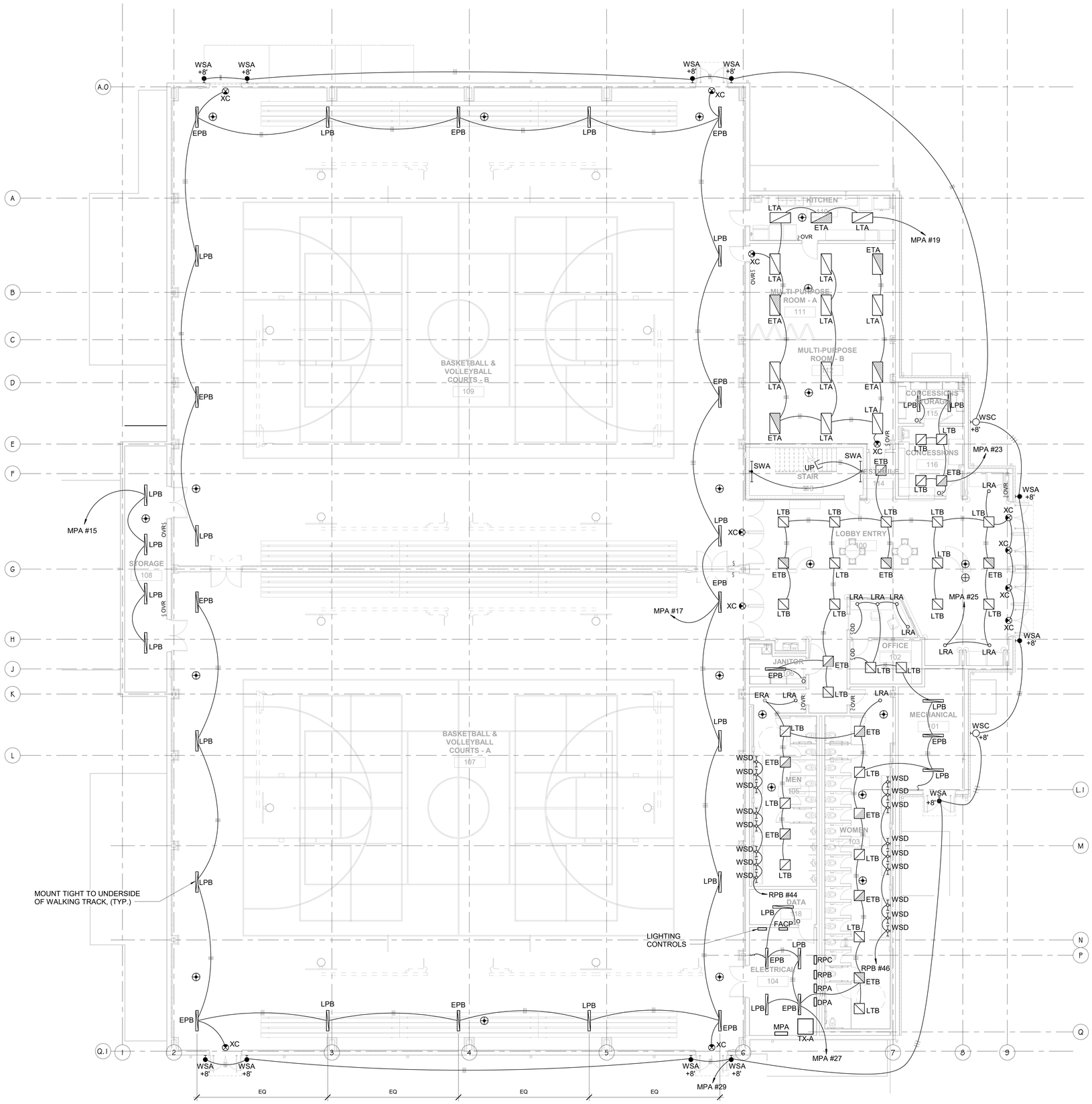


1 FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

LIGHTING CONTROL NOTES:

1. ALL LIGHTING SHALL CONFORM TO ASHRAE 90.1 (2013).
2. LIGHTING SHALL BE CONTROLLED AS FOLLOWS. INCLUDE ALL POWER PACKS, RELAYS, AND DIMMING CABLE AS REQUIRED.
   - A. RESTROOM, KITCHEN, AND STORAGE 108 SHALL BE MANUAL ON, AUTO OFF WITH LOCAL WALL OVERRIDE SWITCH AND CEILING MOUNTED DUAL TECHNOLOGY SENSORS.
   - B. LOBBY LIGHTING AND HALL 201 SHALL BE MANUAL ON, AUTO OFF, FULL DIMMING WITH WALL OVERRIDE SWITCH AND CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS.
   - C. JANITOR, CONCESSION, CONCESSION STORAGE, AND DATA SHALL BE MANUAL ON, AUTO OFF WITH DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR SWITCH.
   - D. OFFICE 102 AND LOBBY CHECK IN SHALL BE MANUAL ON, AUTO OFF, FULL DIMMING WITH DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY/DIMMER SWITCH.
   - E. THE MULTIPURPOSE ROOM SHALL BE CONTROLLED IN 2 ZONES EACH ZONE SHALL HAVE A WALL MOUNTED OVERRIDE SWITCH. THESE LIGHTS SHALL BE MANUAL ON, AUTO OFF, FULL DIMMING AT EACH SWITCH. THERE SHALL BE 2 EACH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCHES (ONE FOR EACH SIDE OF THE ROOM).
   - F. THE MAIN GYM SPACE SHALL HAVE A TOUCH PAD CONTROL PANEL TO BE LOCATED IN LOBBY WITH FLIP UP LOCKING BOX AND SCREEN LOCKING ABILITY. EACH HALF OF THE GYM SHALL HAVE 3 ZONES: 1. GYM FLOOR LIGHTING, 2. UPPER TRACK LIGHTING, AND 3. LOWER WALKING PATH LIGHTING. LIGHTING SHALL BE FULLY DIMMABLE AND HAVE THE ABILITY TO SET PRESET SCENES FOR EACH HALF OF THE GYM AND FOR THE WHOLE GYM. THERE WILL BE 6 ZONES TOTAL.
   - G. EXTERIOR LIGHTING SHALL OPERATE DUSK TO DAWN.
3. LIGHTING CONTROLS BASIS OF DESIGN IS INTELLIGENT LIGHTING CONTROLS. SUBMIT OTHER PRODUCTS FOR PREAPPROVAL.
4. FULL LIGHTING CONTROL DRAWINGS WILL BE REQUIRED AS A SUBMITTAL DURING CONSTRUCTION.
5. FULL FACTORY START UP AND WARRANTY WILL BE REQUIRED.


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FIRST FLOOR PLAN - LIGHTING

E201

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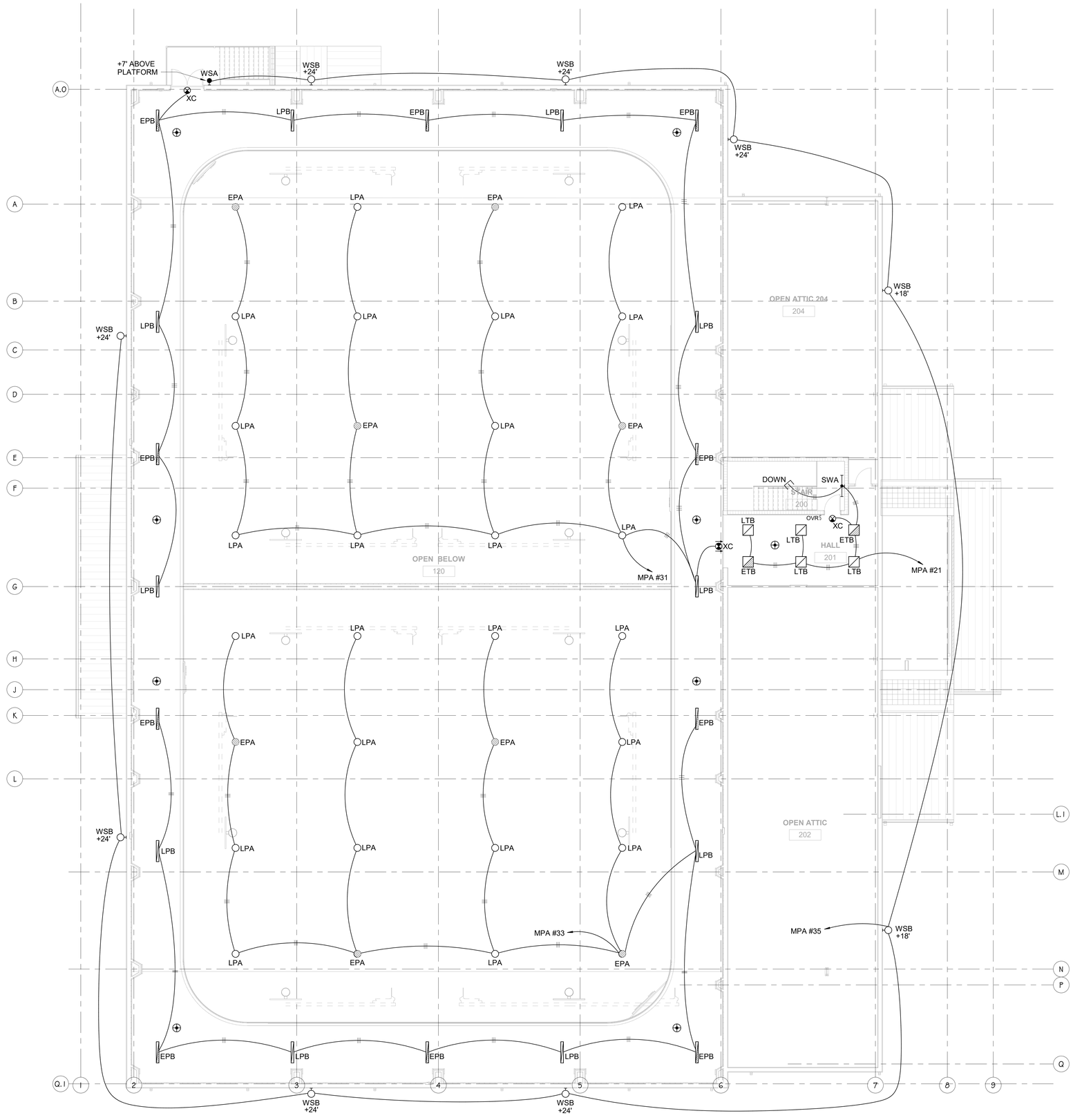


1 MEZZANINE PLAN - LIGHTING
1/8" = 1'-0"

LIGHTING CONTROL NOTES:

1. ALL LIGHTING SHALL CONFORM TO ASHRAE 90.1 (2013).
2. LIGHTING SHALL BE CONTROLLED AS FOLLOWS. INCLUDE ALL POWER PACKS, RELAYS, AND DIMMING CABLE AS REQUIRED.
   - A. RESTROOM, KITCHEN, AND STORAGE 108 SHALL BE MANUAL ON, AUTO OFF WITH LOCAL WALL OVERRIDE SWITCH AND CEILING MOUNTED DUAL TECHNOLOGY SENSORS.
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4. FULL LIGHTING CONTROL DRAWINGS WILL BE REQUIRED AS A SUBMITTAL DURING CONSTRUCTION.
5. FULL FACTORY START UP AND WARRANTY WILL BE REQUIRED.


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MEZZANINE PLAN - LIGHTING

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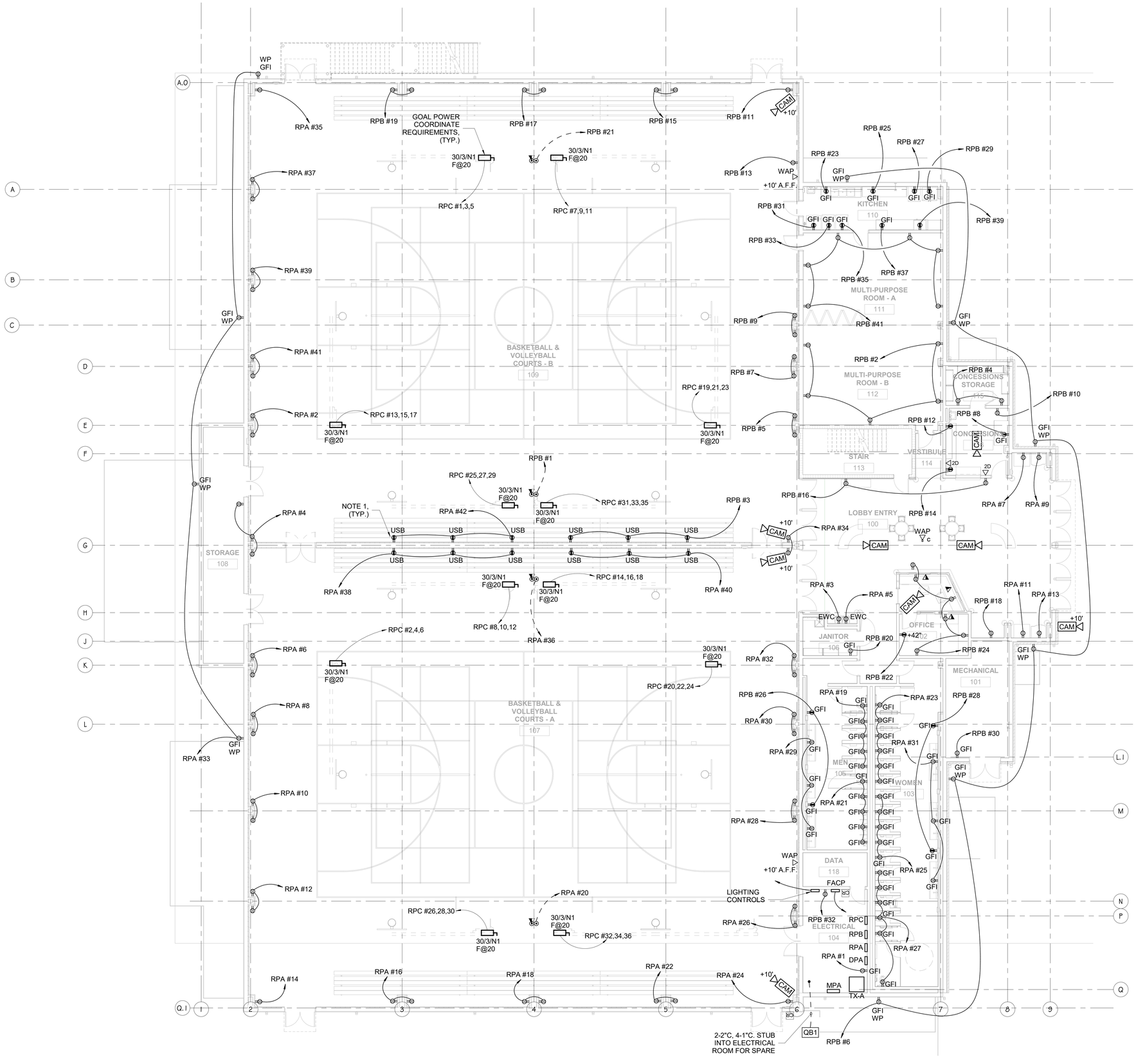


NOTES:

1. USB RECEPTACLES TO BE MOUNTED 18" ABOVE THE TOP BLEACHER

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

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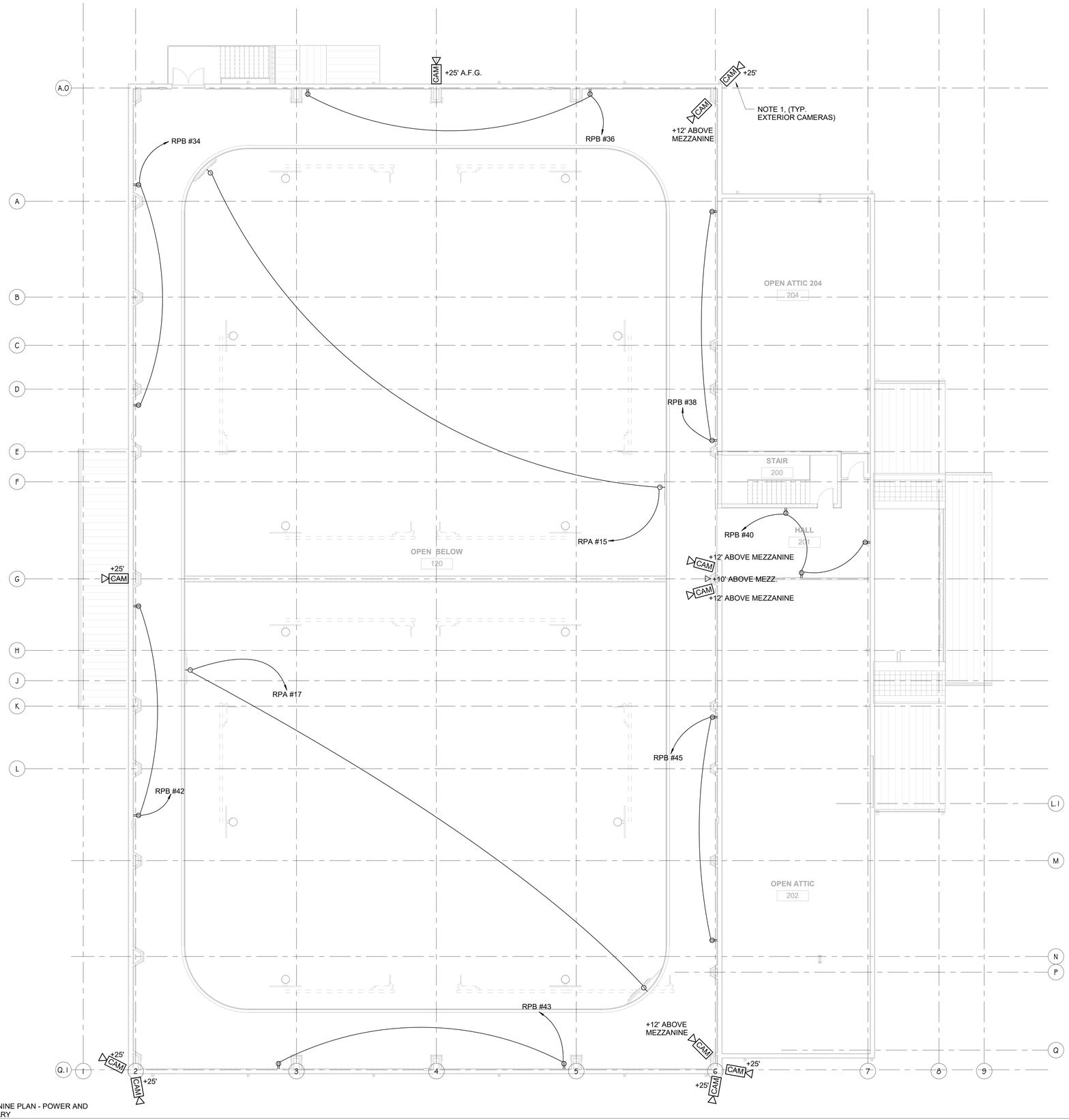
FIRST FLOOR PLAN - POWER AND AUXILIARY

E301




1 MEZZANINE PLAN - POWER AND AUXILIARY
1/8" = 1'-0"

NOTES:

1. ROUTE 2 EACH CAT6 CABLES TO ONE J-BOX FOR EXTERIOR CAMERAS. CAMERAS ARE PROVIDED/INSTALLED BY OWNER

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LACEYS SPRING, ALABAMA 35754

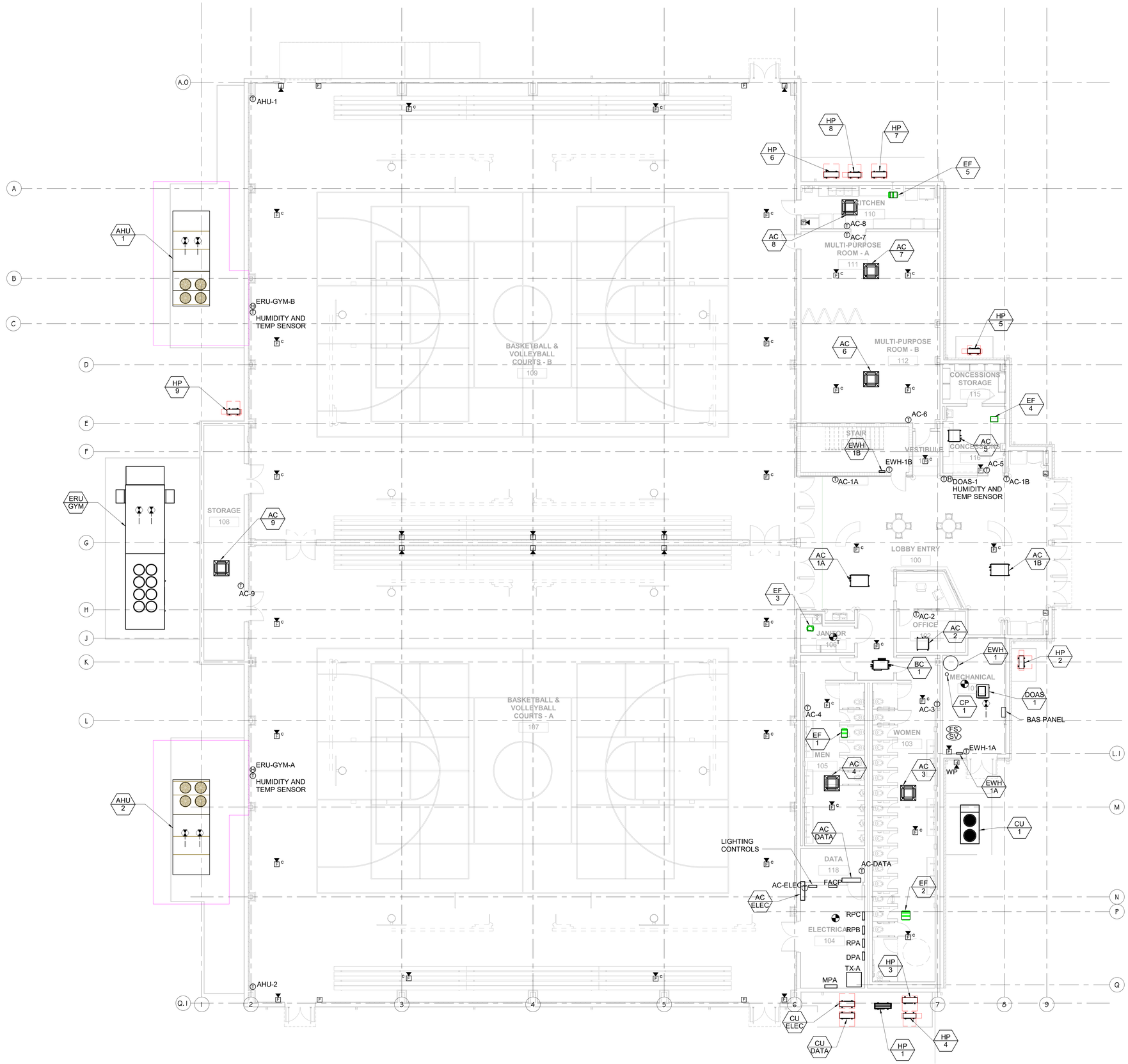
ALABAMA LICENSED PROFESSIONAL ENGINEER MORGAN B. REYES No. 35960
02/15/24

GMC AHUN230008

MEZZANINE PLAN - POWER AND AUXILIARY

E302

2/16/2024 1:44:45 PM




NOTES:

1. PROVIDE AND INSTALL TAMPER SUPERVISORY AND CONNECT TO FACP AS REQUIRED. COORDINATE EXACT LOCATION OF VAULT WITH OWNER.

1 FIRST FLOOR PLAN - HVAC AND FIRE ALARM
1/8" = 1'-0"

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HYDE ENGINEERING, INC.
1525 Perimeter Parkway
Suite 275
Huntsville, Alabama 35801
(P) 256.270.8013
E-MAIL: MORGAN@HYDE-EGR.COM

ENGINEER
Morgan B. Reyes

PROJECT #
23310.3



GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM


Morgan County, Alabama

| ISSUE | DATE |
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| ISSUED FOR BID | 2/16/24 |

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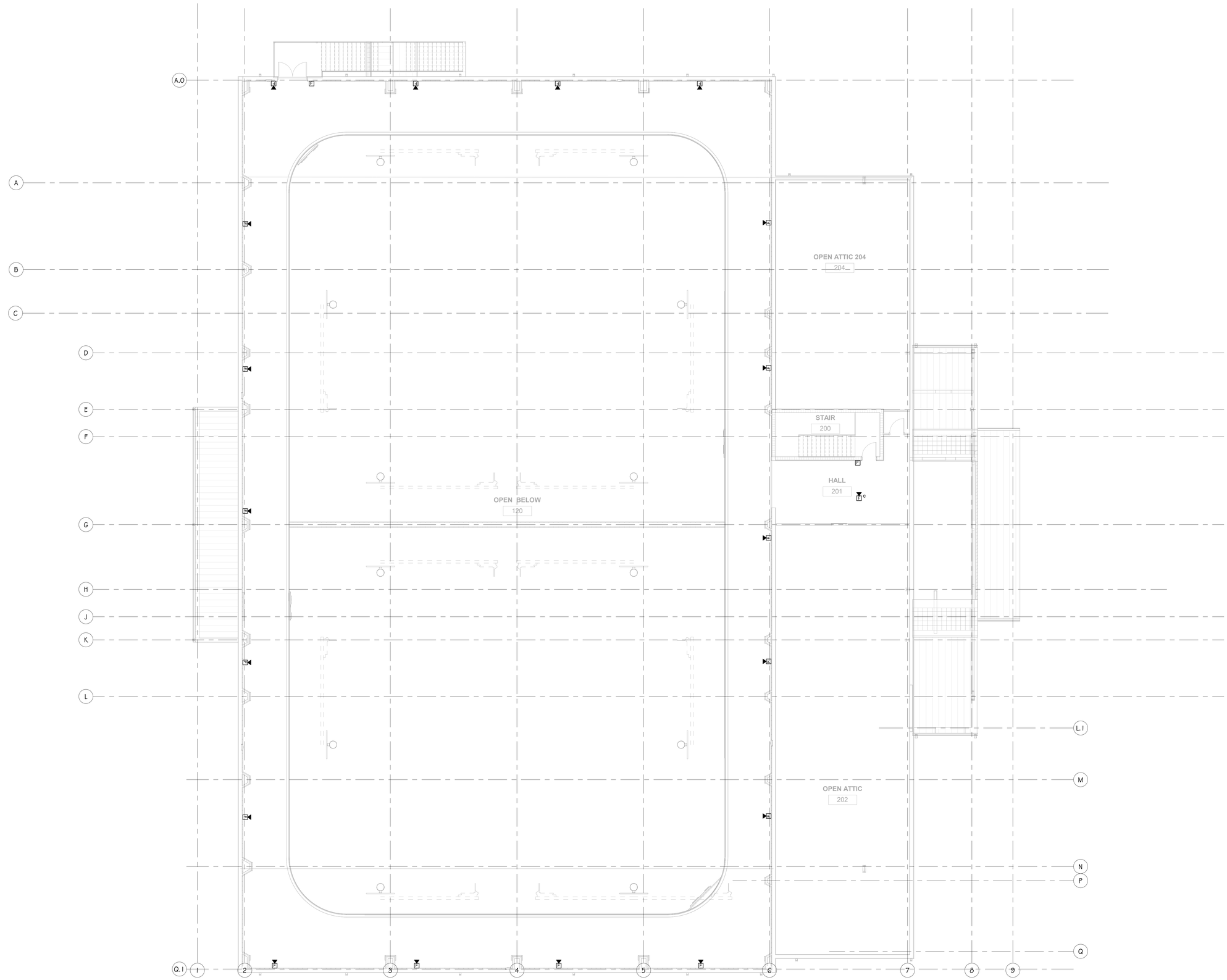
NEW GYMNASIUM FOR MORGAN COUNTY
382 UNION HILL RD
LACEYS SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 35960 MORGAN B. REYES
02/15/24

FIRST FLOOR PLAN - HVAC AND FIRE ALARM

E401




1 MEZZANINE PLAN - HVAC AND FIRE ALARM
1/8" = 1'-0"

2/16/2024 1:44:47 PM

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LACEY'S SPRING, ALABAMA 35754

GMC AHUN230008

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 35960 MORGAN B. REYES 02/15/24

MEZZANINE PLAN - HVAC AND FIRE ALARM

E402