ELEMENTARY ADDITION TO SUMTER CENTRAL HIGH SCHOOL

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SUMTER COUNTY BOARD OF EDUCATION

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(16 SHEETS)

(7 SHEETS)

(17 SHEETS)

PLUMBING/MECHANICAL/ DEWBERRY

ELECTRICAL 2 RIVERCHASE OFFICE PLAZA

STRUCTURAL STRUCTURAL DESIGN GROUP, INC.

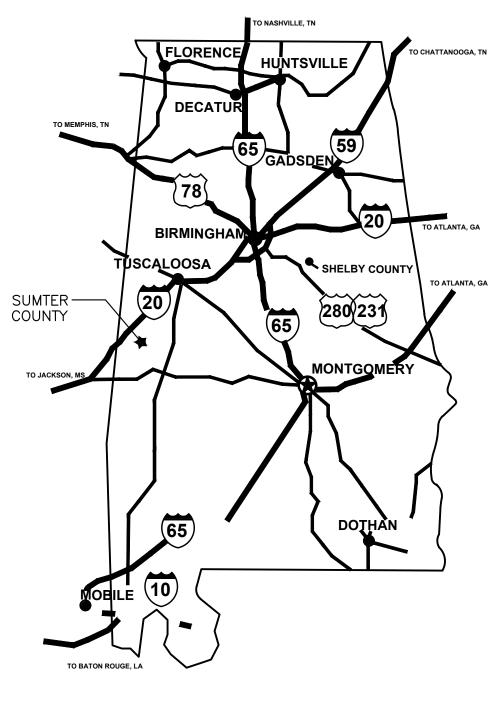
SUITE 125

300 CHASE PARK SOUTH

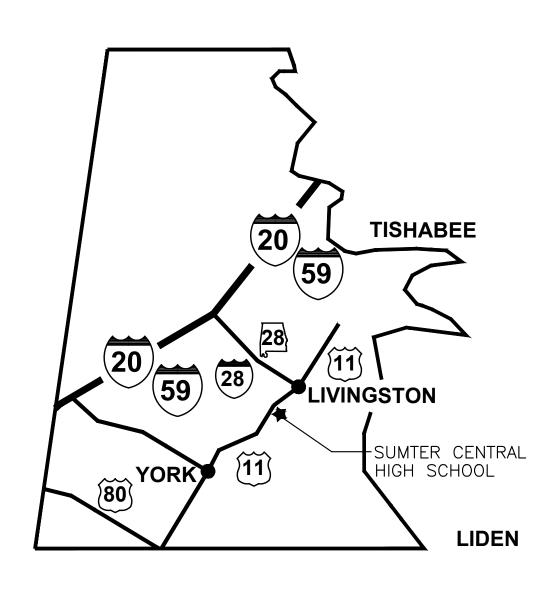
HOOVER, ALABAMA 35244

SUITE 205

BIRMINGHAM, ALABAMA 35244









DRAWING INDEX (SET - 105 TOTAL SHEETS)

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- TITLE AND INDEX - LIFE SAFETY PLAN - STORM SHELTER PLAN LS1.2 - STORM SHELTER SIGNAGE

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- CIVIL DETAILS C6.1 - CIVIL DETAILS

ARCHITECTURAL DRAWINGS (27 SHEETS)

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DOOR AND WINDOW SCHEDULES

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- BUILDING SECTIONS

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- SHELTER ELEVATIONS AND PLANS

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- INTERIOR ELEVATIONS - MILLWORK DETAILS

- PARTIAL REFLECTED CEILING PLAN - AREA A

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A10.3 - GYM REFLECTED CEILING PLAN AND FINISH FLOOR

PLAN, LEGENDS AND SCHEDULES

STRUCTURAL DRAWINGS

- GENERAL NOTES

- GENERAL NOTES CONTINUED

- TYPICAL DETAILS - TYPICAL DETAILS

- TYPICAL DETAILS

- TYPICAL DETAILS

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- AUXILIARY - FLOOR PLAN - PART A

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ELECTRICAL - ENLARGED PLANS

No. 3365 RICK N. LATHAN

LATHAN

ARCHITECTS

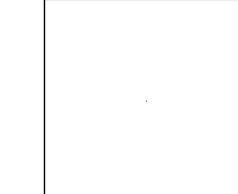
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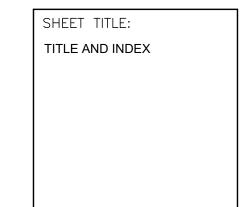
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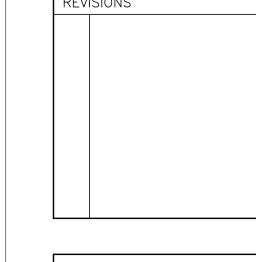
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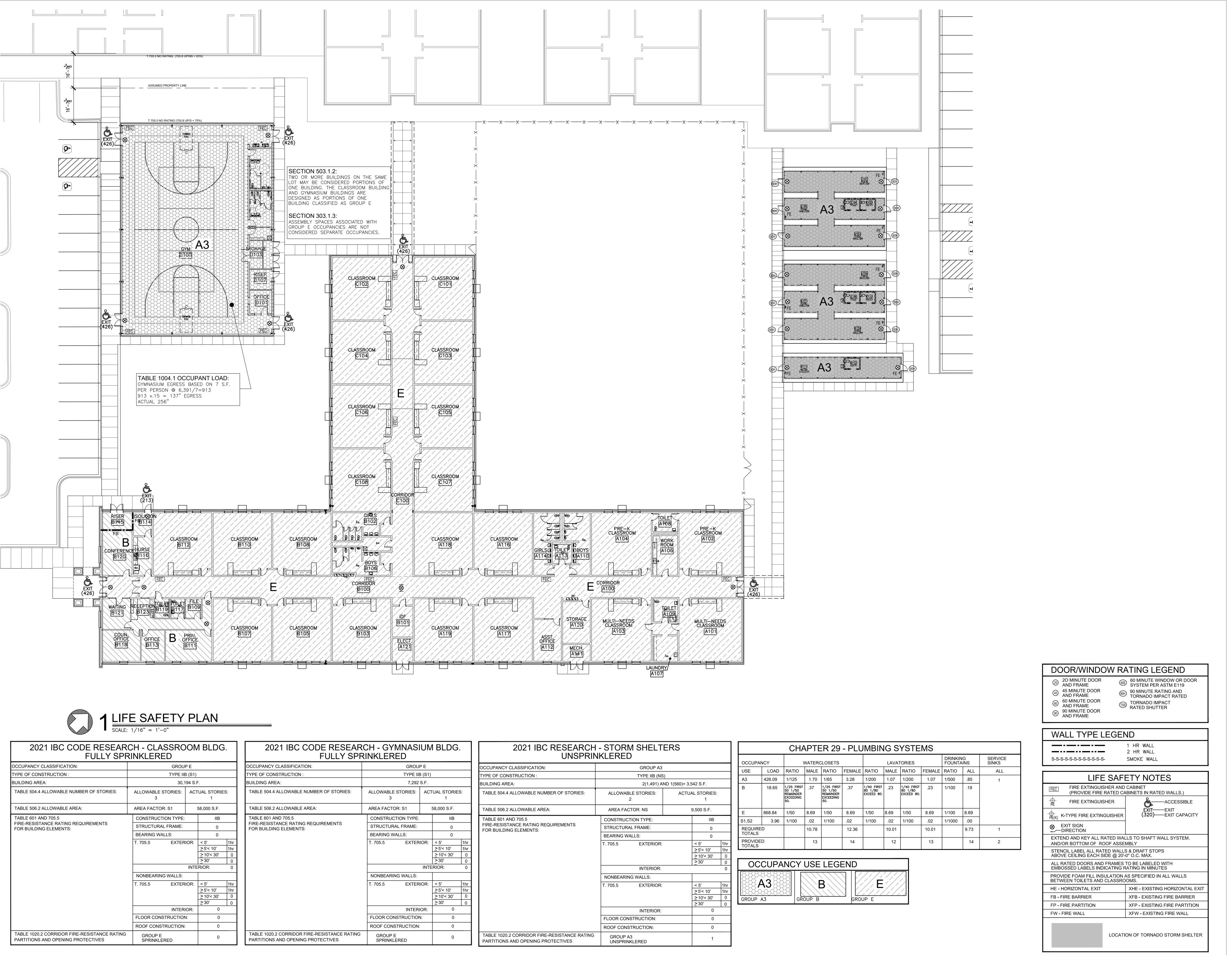




PROJ. MGR.: R. VERNON
DRAWN: JWW
hdr
DATE: 6/24/2024
REVISIONS



JOB NO. **24-38** SHEET NO: 1 OF 4





No. 3365

RICK N. LATHAN

SHEET TITLE:

LIFE SAFETY PLAN

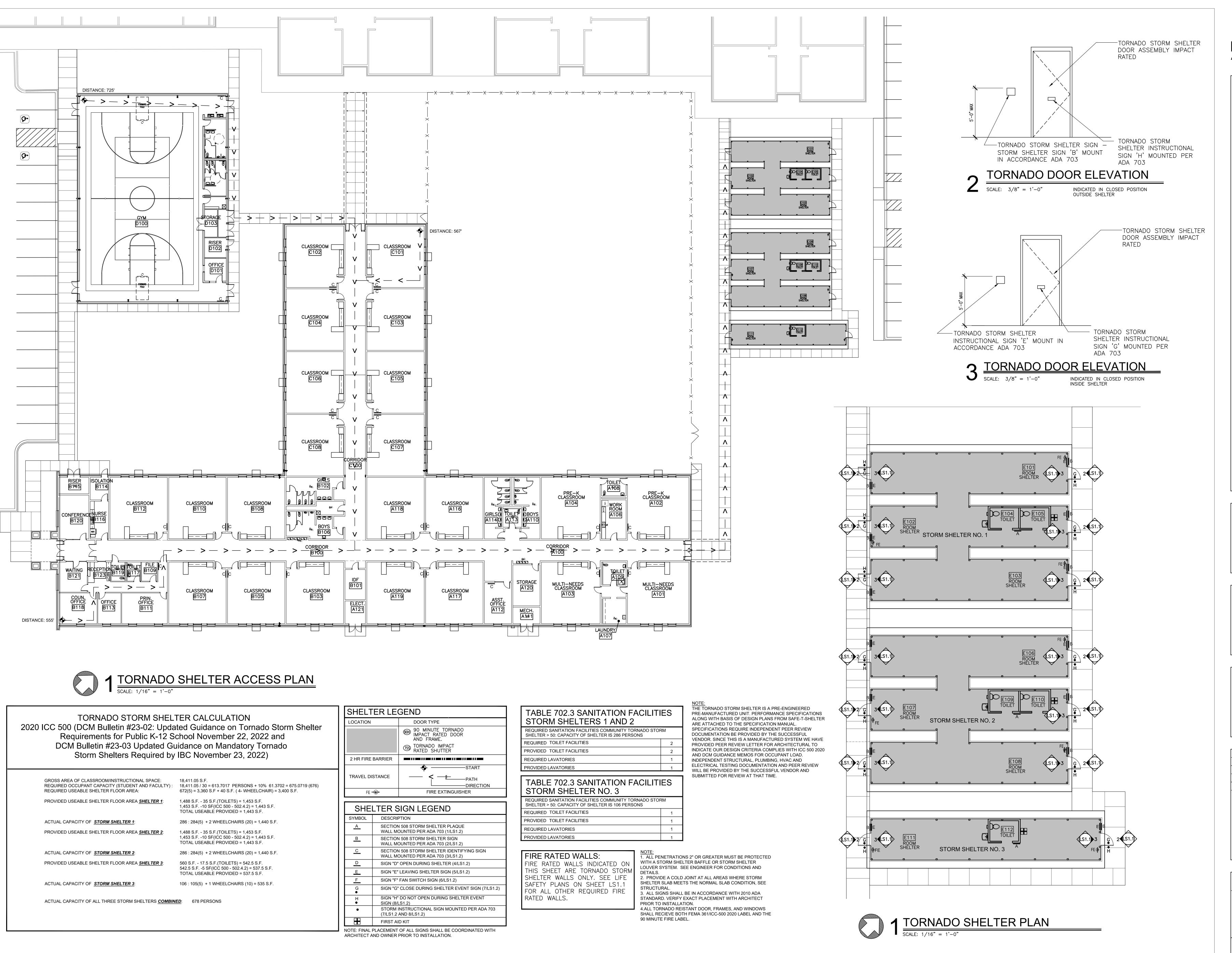
PROJ. MGR.: R. VERNON DRAWN: HR

DATE: 6/24/2024 REVISIONS

JOB NO. **24-38**

SHEET NO:

2 OF 4





No. 3365 RICK N. LATHAN

SHEET TITLE: STORM SHELTER PLAN

PROJ. MGR.: R. VERNON DRAWN: HR DATE: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO:

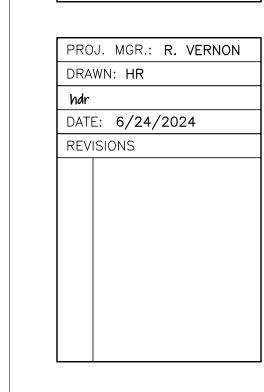
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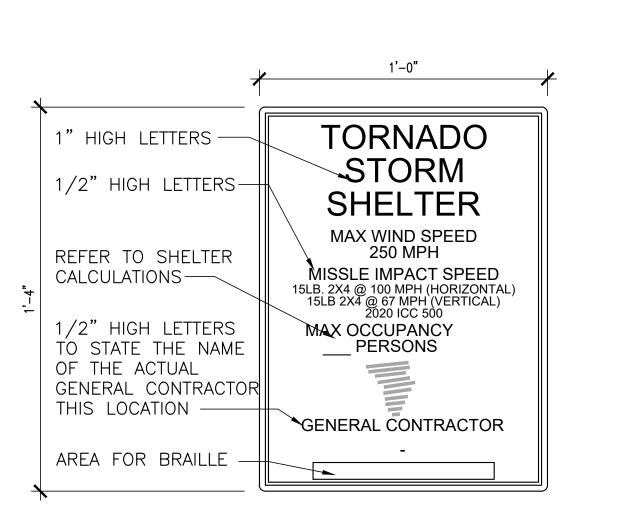


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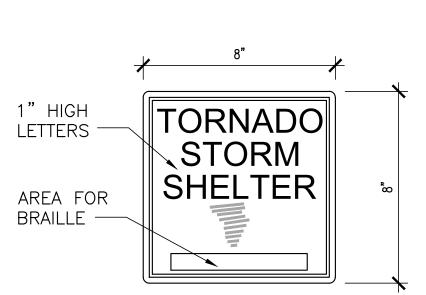
No. 3365 RICK N. LATHAN

SHEET TITLE: STORM SHELTER SIGNAGE

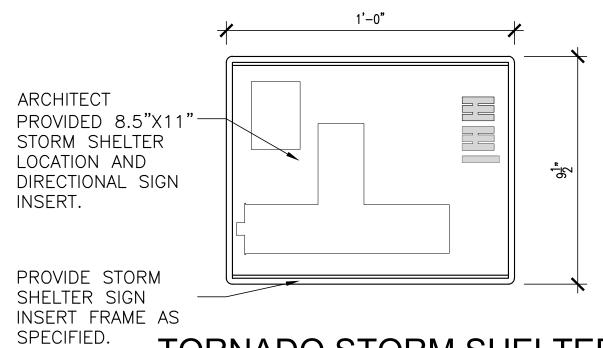




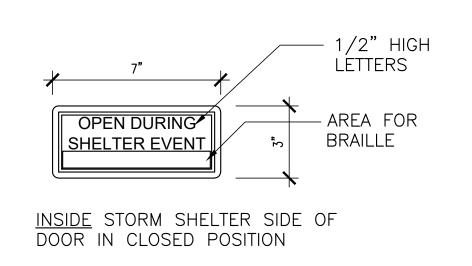
TORNADO STORM SHELTER PLAQUE- A SCALE: 3" = 1'-0"



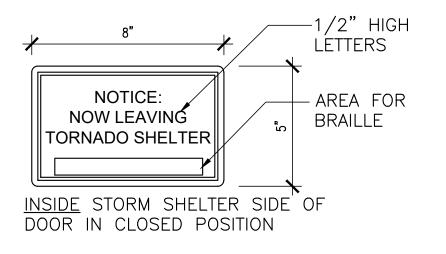
TORNADO STORM **?** SHELTER SIGN - B SCALE: 3" = 1'-0"



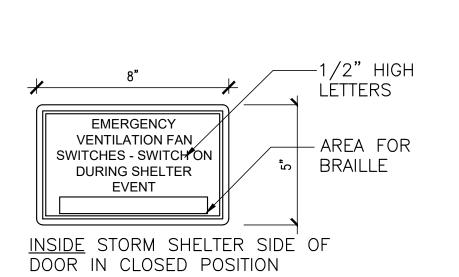
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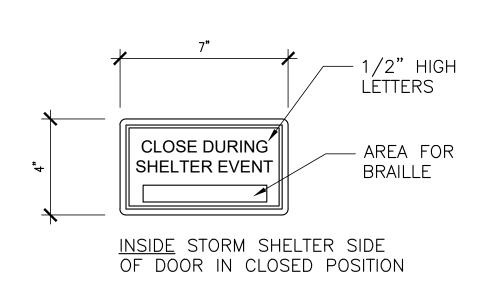
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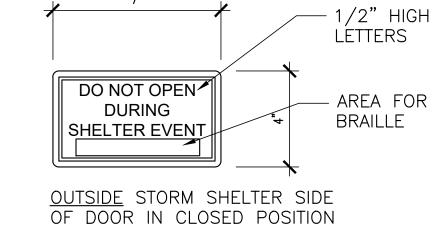


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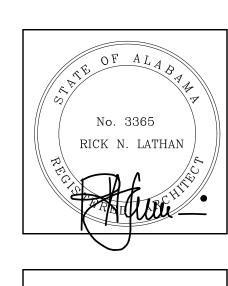
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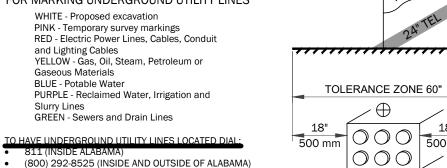


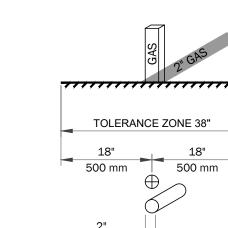


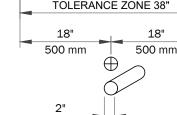
TORNADO STORM SHELTER INSTRUCTIONAL SIGN - G SCALE: 3'' = 1'-0''

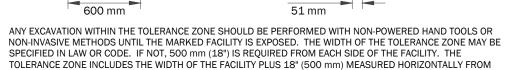
TORNADO STORM SHELTER INSTRUCTIONAL SIGN - H SCALE: 3" = 1'-0"













GENERAL PROJECT NOTES:

- 1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES "POTHOLING" THEM BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ALABAMA ONE-CALL, LOCAL WATER AUTHORITIES, AND UTILITY PROVIDERS, ETC. FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S
- ANY EXISTING PROPERTY CORNERS (I.E.- IRON PIPES, CAPPED PIPES, CAPPED MONUMENTS, ETC). DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE A FINAL PUNCH LIST/CLOSEOUT ITEM. PROJECT PROPERTY CORNERS SHALL BE STAKED AND FLAGGED BY THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS. ANY ADDITIONAL STONE, GRADING, INSTALLATION, ETC. TO MAKE SIDEWALKS, DRIVES, AND ROADWAYS ACCESSIBLE DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
- THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEPT AND WASHED DOWN TO LIMIT THE TRACKING OF DIRT FROM THE PROJECT ONTO PUBLIC RIGHTS-OF-WAY DAILY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
- 5. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES. CROSSINGS OF REQUIRED AND EXISTING GRAVITY UTILITIES SHALL BE EXCAVATED AND ELEVATIONS VERIFIED AT THE BEGINNING OF THE PROJECT BEFORE ANY UTILITIES ARE INSTALLED TO MAKE SURE THERE ARE NO CONFLICTS. WHEN THESE CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE. ADJUSTMENTS AS SPECIFIED BY THE OWNER'S REPRESENTATIVE SHALL BE MADE IN THE PROPOSED AND/OR EXISTING FACILITIES. IF CONFLICTS OCCUR WHILE INSTALLING GRAVITY UTILITIES AND THE CONTRACTOR DID NOT IDENTIFY ELEVATIONS AT CROSSINGS IN ADVANCE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTIVE ACTION, INCLUDING BUT NOT LIMITED TO, REMOVING AND INSTALLING THE MAIN AND/OR STRUCTURES. WITH THE NUMEROUS EXISTING UTILITIES ON-SITE, IT IS IMPERATIVE THAT THESE BE VERIFIED BEFORE INSTALLATION
- 6. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES (I.E., CURB AND GUTTERS, SIDEWALK, DRIVES. STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK, ETC.), SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT RIGHT-OF-WAY TO ELIMINATE STAINING FROM EARTHEN MATERIAL. CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO
- ADDITIONAL COMPENSATION SHALL BE GIVEN. 7. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
- 8. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT.

CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE AT ALL TIMES.

ALL TEMPORARY STONE FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO TEMPORARY STONE SHALL BE WASTED ON THE SITE SPECIFICALLY IN THE FINAL SUBGRADE LAYER AND TOPSOIL. EXCESSIVE STONE WILL INHIBIT THE GROWTH OF THE LANDSCAPE. ALL STONE SHALL BE REMOVED FROM AREAS TO RECEIVE TOPSOIL, NO EXCEPTIONS. 10. THE CONTRACTOR SHALL INSTALL TEMPORARY ASPHALT PATCHING WITHIN 24 HOURS AFTER THE COMPLETED INSTALLATION OF UTILITY CROSSINGS ON ROADWAYS OPEN TO TRAFFIC. IF THE ROADWAY IS CLOSED TO LOCAL TRAFFIC THEN ALL ASPHALT CUT

LOCATIONS SHALL BE PATCHED BEFORE THE ROADWAY IS REOPENED. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL ALL

- UTILITIES AND THEN TEMPORARY ASPHALT PATCH ALL AT ONE TIME. TEMPORARY ASPHALT PATCHING MUST OCCUR PERIODICALLY 11. WHEN TEMPORARY ASPHALT PATCHING OCCURS THE MIX SHALL BE HOT MIXED AS SPECIFIED IN THE PLANS. ASPHALT COLD MIXES SHALL NOT BE ACCEPTED. POORLY PATCHED CROSSINGS DISPLAYING NONUNIFORM, UNSMOOTH FINISHES SHALL NOT BE ACCEPTED
- AND SHALL BE REMOVED AT ONCE. THE REPATCH OF THE AREA SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. 12. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT. THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION
- 13. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUMTER COUNTY SCHOOL SYSTEM, SUMTER CENTRAL HIGH SCHOOL. PRIVATE UTILITY COMPANIES, AND ANY OTHER OWNER OR GOVERNING AGENCY WITH EXISTING INFRASTRUCTURE OR JURISDICTION IN

DEMOLITION NOTES:

- 1. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED ON THE DEMOLITION PLAN. THE AREA IS GENERAL IN NATURE AND IS INTENDED TO GIVE THE CONTRACTOR AN APPROXIMATE AREA OF DEMOLITION. REGARDLESS OF THE AREA SHOWN, THE CONTRACTOR SHALL DEMOLISH, CLEAN AND GRUB ALL AREAS AND EXISTING INFRASTRUCTURE (ABOVE AND BELOW GROUND) NECESSARY TO COMPLETE ALL FINAL IMPROVEMENTS AS SHOWN ON THE CIVIL, ARCHITECTURAL, LANDSCAPE/IRRIGATION, ETC. CONSTRUCTION PLANS.
- 2. ALL AREAS DISTURBED BY THE CONTRACTOR; INCLUDING BUT NOT LIMITED TO ACTUAL IMPROVED AREAS, LAYDOWN AREAS, AREAS DISTURBED BY MOVING EQUIPMENT SHALL BE IMPROVED PER THE REQUIREMENTS OF THE PLANS, NO EXCEPTIONS.
- 3. ANY PERMANENT AND/OR CONSTRUCTION FENCING (EXISTING OR REQUIRED PER THE PLANS) REQUIRED TO BE REMOVED/RESET FOR INSTALLATION OF SITE, UTILITY, BUILDING, ETC. IMPROVEMENTS SHALL BE DONE SO AT NO ADDITIONAL COST TO THE PROJECT AND IS CONSIDERED INCIDENTAL. THE PLANS HAVE BEEN NOTED WITH GENERAL AREAS THIS IS TO OCCUR IN. THE REMOVAL AND/OR REPLACEMENT LIMITS WILL BE DETERMINED IN THE FIELD.

GRADING NOTES:

- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, BE GRASSED AND MULCHED, AND/OR SODDED AS SOON AS FINAL GRADING IS COMPLETE. REFER TO EROSION CONTROL NOTES FOR TEMPORARY GRASSING AND MULCHING DURING GRADING
- ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE WELL IN ADVANCE OF FILL OPERATIONS. THE CONTRACTOR SHALL IDENTIFY ALL BORROW SOURCES FOR PD SAMPLES TO BE TAKEN AND EVALUATED. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS AS PER THE OWNER'S REPRESENTATIVES REQUIREMENTS. SEE THE GEOTECHNICAL REPORT FOR THIS INFORMATION.
- 3. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN. THE MAJORITY OF THE PROJECT WILL REQUIRE CLEARING AND REMOVAL OF EXISTING SIDEWALK, DRIVES, CURB AND GUTTER, CURBING, TREE STUMP REMOVAL, TOPSOIL, GRADING, ETC. AS SHOWN THROUGHOUT THE PROJECT CONSTRUCTION PLANS AND CONTRACT DOCUMENTS.
- 4. ALL EXISTING WATER VALVES, UTILITY VAULT TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS, ETC. NOTED ON THE DEMOLITION PLAN SHALL BE REMOVED, STOCKPILED IN A SECURE LOCATION, AND/OR RESET AS PER THE CONTRACT DOCUMENTS. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN, SANITARY, WATER DISTRIBUTION
- AND FIRE PROTECTION, ELECTRICAL, VIDEO, IRRIGATION, ETC. IMPROVEMENTS HAVE BEEN INSTALLED. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING AND HANDICAP RAMPS.
- ALL ADA ACCESSIBLE RAMP GRADES AND SIDEWALK CROSS SLOPE SHALL MEET ADA REQUIREMENTS. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT SITE, UNCLASSIFIED EXCAVATION, AND BORROW EXCAVATION, ROCK REMOVAL, ETC. TO BRING THE SITE TO FINISHED SUBGRADE (ONLY LEAVING PAVEMENTS AND TOPSOIL TO REACH FINAL FINISHED GRADE) AS SHOWN ON THE CONSTRUCTION PLANS. NO EXTRA PAYMENT WILL BE MADE FOR EXCESS MATERIAL BROUGHT ON-SITE, MATERIAL REQUIRED TO BE MOVED MULTIPLE TIMES BECAUSE OF
- THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN 🕍 IN DIAMETER. THERE ALSO SHALL BE NO WASTED TEMPORARY GRAVEL, CONCRETE, OR ANY OTHER BUILDING MATERIALS FOUND IN THE TOPSOIL. ANY FOUND DEBRIS SHALL BE REMOVED IMMEDIATELY.

CONSTRUCTION PHASING, OR EXCESS MATERIAL TO BE REMOVED FROM THE SITE UPON GRADING COMPLETION.

9. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE PLACED IN MAXIMUM LOOSE 8" LIFTS TO 98% OF THE STANDARD PROCTOR MAXIMUM (ASTM D 698) DRY DENSITY, AS DIRECTED BY THE GEOTECHNICAL REPRESENTATIVE. THE GEOTECHNICAL REPORT COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENT FOR THE PROJECT.

STORM DRAIN NOTES:

- 1. STORM DRAIN STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING AND/OR INLET THROAT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE
- 2. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE STORM STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
- 3. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB. ROADWAY AND/OR VEGETATED FINISHED GRADE ELEVATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLANS. ANY ADJUSTMENTS TO LEVEL RING AND COVER TOP ELEVATIONS WITH FINAL ASPHALT, SODDING, ETC. SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE STORM
- 4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORMWATER FLOW IN EXISTING AND PROPOSED STORM SEWERS WITHIN THE PROJECT LIMITS AND IF AFFECTED BY CONSTRUCTION ACTIVITIES, OUTSIDE THE PROJECT LIMITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY AND ALL MATERIAL AND LABOR REQUIRED FOR TEMPORARY STORM SEWERS AND/OR PUMPS THAT MAY BE REQUIRED FOR BYPASSING. THE OWNER OR ITS REPRESENTATIVES SHALL NOT ACCEPT ANY RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY, OR ACCEPT ANY RESPONSIBILITY FROM CLAIMS OR DAMAGES RESULTING FROM THE FAILURE OF THE
- CONTRACTOR'S TEMPORARY STORM SEWER BYPASS FACILITIES. 5. ALL STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE REBAR REINFORCEMENT IN THE WALLS, BOTTOM, AND TOP. ALTHOUGH THE TOPS VARY FOR AN S-INLET, GRATE INLET, AND JUNCTION BOX, THE BOX ITSELF IS THE SAME AND REBAR REINFORCEMENT SHALL BE
- PLACED PER THE STANDARD DETAIL AND NOTES. 6. CONICAL MANHOLE SECTIONS AND MANHOLE RIMS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE. 7. WHEN TYING TO EXISTING UTILITY PIPING WITH STORM DRAIN, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND
- REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS 8. CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH STORM STRUCTURE CONICAL SECTION AND RING AND COVER
- TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT.
- 9. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES REQUIRED ON THE 10. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT.
- THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE. 11. THE CONTRACTOR SHALL BACKFILL THE SPACE (WHEN BETWEEN 6 INCHES AND 2 FEET) BETWEEN STORM DRAIN AND SANITARY

SEWER MAINS WHEN CROSSING WITH NO. 57 STONE MECHANICALLY CONSOLIDATED IN-PLACE TO PREVENT ANY SETTLEMENT AT THE

CROSSING. THIS STONE SHALL EXTEND THE WIDTH OF THE UTILITY TRENCH TO APPROXIMATELY FOUR (4) FEET TO EITHER SIDE OF

12. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS BEFORE BACKFILL. THIS SHALL BE REQUIRED REGARDLESS IF PREFABRICATED LIFTING PLUGS ARE USED OR NOT. THE COMBINATION OF THE TWO (2) IS RECOMMENDED TO ENSURE THAT THE LIFTING HOLES DO NOT REMAIN OPEN ALLOWING EARTHEN MATERIAL TO ENTER THE DRAIN POSSIBLY CAUSING A SINK HOLE AT THE SURFACE.

SANITARY SEWER NOTES:

- 1. THE CONTRACTOR SHALL REFERENCE THE PLUMBING PLANS FOR ANY SEWER PLUMBING BENEATH THE PROPOSED BUILDING
- 2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE
- INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING. 3. SANITARY STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING OR AS
- DIRECTED BY THE OWNER'S REPRESENTATIVE. 4. SANITARY STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE SANITARY STRUCTURE
- TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED. 5. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES. TOPS INSTALLED TOO
- HIGH SHALL BE RESET AT NO ADDITIONAL COST TO THE PROJECT. 6. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTING, ETC. 7. CONICAL MANHOLE SECTIONS AND MANHOLE RINGS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN
- REORIENTATION AT THE CONTRACTOR'S EXPENSE. 8. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
- 9. THE CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH SANITARY SEWER CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH
- STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT 10. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT, OR ON WEEKENDS, ETC.
- 11. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED PER THE LOCAL SEWER AUTHORITY'S REQUIREMENTS. TESTING IS CONSIDERED INCIDENTAL TO THE PROJECT.

GENERAL UTILITY NOTES:

- 1. THE CONTRACTOR SHALL BE PREPARED TO CAMERA ANY DISCOVERED UTILITY MAIN FOUND DURING CONSTRUCTION NOT SHOWN ON THE PLANS TO VERIFY IF THE MAIN SHOULD BE TIED TO THE PROPOSED SYSTEMS OR BE ABANDONED AND/OR REMOVED. ALL STORM DRAIN AND SANITARY SEWER SYSTEM STRUCTURES AND PIPING SHALL REMAIN ACTIVE UNTIL PROPOSED PROJECT UTILITIES ARE INSTALLED AND CAN COME INTO SERVICE. THIS APPLIES TO AREA INLETS IN YARDS AND/OR ROOF DRAINS. ANY WATER OR SEWER DAMAGE TO PRIVATE PROPERTY DUE TO FAILURE OF THE CONTRACTOR TO COORDINATE REMOVAL OF EXISTING UTILITIES AND TIE-INS TO REQUIRED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ALL CLEANUP AND ADDITIONAL
- WORK REQUIRED TO CORRECT THE DAMAGE. 3. THE CONTRACTOR SHALL REMOVE/RESET/RAISE ALL PRIVATE UTILITY COMPANY BOXES, MANHOLE RING AND COVER, ETC. IF THESE ITEMS ARE BEING RETAINED. ANY ITEMS DAMAGED DURING THIS WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PAVING, SIGNING AND STRIPING NOTES:

- 1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE
- 2. ALL COMBINATION CURB AND GUTTER SHALL BE ONE AND A HALF (1.5) FEET IN WIDTH UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. EXISTING CURB AND GUTTER MAY VARY IN WIDTH AND PROPOSED CURB AND GUTTER SHALL BE TAPERED TO JOIN TO IT OVER A MINIMUM DISTANCE OF FIVE (5) FEET TO ENSURE A SMOOTH TRANSITION. 3. ALL TEMPORARY AND/OR PERMANENT STRIPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION
- 4. ALL PERMANENT SIGNS AND POSTS SHALL BE PER THE MUTCD.

PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.

- 5. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY CONSTRUCTION SIGN POSTS SHALL BE #3 "U" CHANNEL POSTS, ALDOT 710B.
- 6. ALL TRAFFIC STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
- 7. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- 8. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT.
- 9. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY FOR CONTROL CRACKING OF THE CONCRETE PAVEMENT. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- 10. ALL TEMPORARY STRIPING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. TEMPORARY STRIPING SHALL BE REQUIRED TO CLEARLY DELINEATE WHERE TRAFFIC BOTH PEDESTRIAN AND MOTOR VEHICLE KNOW HOW TO NAVIGATE THE WORK AREA. DURING PAVEMENT CURING TEMPORARY STRIPING SHALL BE APPLIED FOR TRAFFIC CONTROL.
- 11. THE FINAL PAVEMENT FINISH IS VERY IMPORTANT FOR THE PROJECT AND THE OWNER. THE CONTRACTOR SHALL MAKE ALL PAVEMENT ARE FINISHED OUT SMOOTHLY AND CLEANLY. IRREGULARITIES, "BIRD BATHS", RANDOM CRACKING, ETC. SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.

EROSION CONTROL NOTES:

- 1. REGARDLESS IF AN NPDES PERMIT IS REQUIRED OR NOT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. AN EROSION CONTROL PLAN IS PROVIDED AS A MINIMUM GUIDE FOR PROVIDING STRUCTURAL BMP'S. PHASING, TEMPORARY GRASSING, AND OTHER METHODS AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT, SHALL BE UTILIZED TO MINIMIZE EROSION. NO EXTRA COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR MAINTAINING EROSION CONTROL ITEMS OR ADDITIONAL EROSION CONTROL ITEMS REQUIRED TO COMPLY WITH THE NPDES PERMIT.
- THE DESIGN OF THE CBMPP, IF REQUIRED, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S QCP. IN THE EVENT THAT SEDIMENT BASINS ARE REQUIRED BY THE DESIGN, NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR STOCKPILING MATERIAL TO LATER FILL THE BASINS. ADDITIONAL GRADING TO FILL THE BASINS. TEMPORARY PIPING. RESEEDING AND REMULCHING, RESTORING PERMANENT DRAINAGE STRUCTURES AND GRADES TO THEIR PERMANENT REQUIREMENTS, OR ANY OTHER ITEMS OF WORK THAT ARE REQUIRED BY THE PHASING OF CONSTRUCTION OR THE CBMPP.
- 3. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR. ANY ADDITIONAL WORK AND MATERIALS REQUIRED TO COMPLY WITH ANY VIOLATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 4. ALL TEMPORARY RIPRAP USED FOR EROSION CONTROL PURPOSES SHALL BE INCLUDED IN THE PRICE OF EROSION CONTROL. TEMPORARY RIPRAP BERMS SHALL BE SPREAD OUT IN AREAS WHERE PERMANENT RIPRAP IS REQUIRED AND SHALL BE SPREAD IN A MANNER TO NOT IMPEDE FLOW OF STORM DRAINS AFTER THE SITE IMPROVEMENTS ARE COMPLETE AND THE PROJECT IS STABILIZED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR TEMPORARY RIPRAP OR SPREADING IT UPON COMPLETION OF THE SITE IMPROVEMENTS. ALL TEMPORARY RIPRAP THAT IS SPREAD FOR USE AS PERMANENT RIPRAP SHALL BE PLACED ON THE STONE BEDDING AND FILTER FABRIC AS SHOWN IN THE DETAILS. COSTS FOR STONE AND FILTER FABRIC PLACED UNDERNEATH ALL TEMPORARY RIPRAP THAT IS SPREAD IN PERMANENT LOCATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EROSION
- CONTROL MANAGEMENT AND MAINTENANCE, OR IF THERE ARE NO UNIT PRICES, THE COST SHALL BE INCIDENTAL TO THE PROJECT. 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP CLEAN ALL EROSION & SEDIMENT CONTROL STRUCTURES
- UNTIL THE NPDES PERMIT IS ACCEPTED AS COMPLETE BY THE QCP & ADEM, AND IS TERMINATED BY THE CONTRACTOR. 6. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES (15") OR 1/2 THE HEIGHT OF THE FENCE. SEDIMENT REMOVED FROM THE SILT FENCE SHALL BE PLACED ONSITE AND STABILIZED.
- 7. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO KEEP THE PROJECT AREA CLEAN, INCLUDING MOTORIZED STREET SWEEPERS, WATER AND VACUUM TRUCKS, HAND SWEEPING AND SHOVELING, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE
- 8. THE CONTRACTOR SHALL IDENTIFY WORK AREA ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL TEMPORARY GRAVEL DRIVES TO REDUCE TRACKING ONTO PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STREETS CLEAN OF ANY SEDIMENT FROM THE CONSTRUCTION SITE ON A DAILY BASIS, NO EXCEPTIONS.
- 9. ALL DISTURBED AREAS, INCLUDING THE EARTHEN STOCKPILES, SHALL BE MULCHED UPON COMPLETION OF GRADING OPERATIONS. ADEM REGULATIONS REQUIRE ALL DISTURBED AREAS NOT UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION FOR LONGER THAN THIRTEEN (13) DAYS TO BE PROVIDED WITH TEMPORARY GROUND COVER.
- 10. THE CONTRACTOR SHALL INSTALL WATTLES, SANDBAGS, AND/OR SILT FENCE TRENCHED THROUGH PAVEMENT AFTER SAW-CUTTING THE ASPHALT TO AVOID RUNOFF INTO OTHER ROADWAYS, DRIVES, AND AREAS PARALLEL AND ADJACENT TO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN
- 11. WATTLES FOR SEDIMENT CONTROL SHALL HAVE A MINIMUM DIAMETER OF 12".
- 12. THE CONTRACTOR SHALL INSTALL STONE AND/OR STABILIZE ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. AS NECESSARY. ALL STONES FOR CONSTRUCTION ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. ARE CONSIDERED INCIDENTAL REGARDLESS THE NUMBER OF TIMES FRESH STONE IS REQUIRED FOR EROSION CONTROL MEASURES. AT THE END OF THE PROJECT, ALL STONE
- SHALL BE REMOVED AND NOT WASTED ON THE PROJECT SITE. 13. WHEN INSTALLING SILT FENCE OR OTHER BMP'S, THE CONTRACTOR SHALL USE THE LOCATIONS PROVIDED ON THE DRAWINGS OR THE CBMPP. WASTEFUL AND/OR POORLY PLANNED INSTALLATIONS SHALL NOT RECEIVE ADDITIONAL PAY FOR REINSTALLATION AFTER MOVING TO ANOTHER PHASE OF THE WORK.
- 14. ADEM CLOSELY MONITORS DEVELOPMENTS FOR EROSION & SEDIMENT CONTROL VIOLATIONS. VIOLATIONS CAN LEAD TO THEM ISSUING A STOP WORK ORDER. THE PROJECT SHALL FALL UNDER THE SAME GUIDELINES. ANY FINES AND LEGAL FEES ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ANY ADDITIONAL REQUIREMENTS PLACED ON THE PROJECT BY THE FINING AGENCY. THERE SHALL BE NO CLAIMS CONSIDERED OF LOST CONTRACT TIME, MONEY, ETC. DURING THE STOP WORK PERIOD. THIS IS A SITUATION TOTALLY IN THE
- CONTROL OF THE CONTRACTOR AND HE WILL MEET HIS RESPONSIBILITIES TO MAINTAIN A STABILIZED CONSTRUCTION SITE. 15. ALL INLETS/STRUCTURES SHALL BE COVERED BY DOME INLET PROTECTORS DURING CONSTRUCTION UNLESS OTHERWISE NOTED TO AVOID SEDIMENT RUNOFF. THESE UNITS SHALL BE KEPT CLEAN DURING CONSTRUCTION. IF THE INLET/STRUCTURE IS TOO LARGE, THEN SEDIMENT LOGS OR SILT FENCE SHALL BE USED TO PROTECT THE INLET.
- 16. ALL MEANS NECESSARY SHALL BE USED TO ESTABLISH TEMPORARY EROSION CONTROL INCLUDING EROSION CONTROL NETTING, SODDING, REPEATED SEEDING AND MULCHING, ETC.
- 17. A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED OR DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION WITH AT LEAST A GOOD STAND OF GRASS AND/OR SOD. EROSION CONTROL MEASURES INCLUDING CONSTRUCTION EXIT PADS, SHOWN HEREIN TO PREVENT EROSION AND SEDIMENT RUNOFF ARE A MINIMUM AND SHALL NOT BE INTERPRETED AS BEING ALL THAT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL BE MINDFUL DURING ALL PHASES OF CONSTRUCTION AND INSTALL AND UTILIZE ANY AND ALL ADDITIONAL ITEMS NECESSARY TO CONTROL ALL EROSION AND SEDIMENTATION ON THE PROJECT AT ALL TIMES AS REQUIRED BY ADEM AND THE ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, MOST RECENT EDITION.
- 18. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO DIRECT ADDITIONAL ITEMS OR REVISE IN-FIELD PLACEMENT OF EROSION CONTROL ITEMS AS DEEMED NECESSARY DURING ALL PHASES OF THE PROJECT. 19. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT ALL SANITARY OR STORM SEWER MAINS AND MANHOLES ON A
- CONTINUAL BASIS IF CONSTRUCTION DEBRIS ENTERS SUCH MAINS. IN NO EVENT SHALL CONTRACTOR DISPOSE OF ANY DEBRIS OR MATERIALS IN SEWERS. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SUCH DEBRIS OR MATERIAL TO SATISFACTION OF OWNER'S
- 20. CONTRACTOR SHALL BE OBSERVANT OF FORECASTED RAIN EVENTS AND PROMPTLY REPAIR, MAINTAIN, INSTALL NECESSARY EROSION CONTROL ITEMS PRIOR TO SUCH RAIN EVENTS. CONTRACTOR SHALL PROMPTLY MEDIATE, CLEAN UP, REMOVE ANY EROSION OR SEDIMENTATION FROM ALL EROSION CONTROL ITEMS, STRUCTURES, TRAPS, BASINS, ETC, AND REPAIR, MAINTAIN, RE-INSTALL. SUPPLEMENT SUCH IMMEDIATELY FOLLOWING EACH RAIN EVENT OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 21. ALL CONCRETE WASHOUT WATER SHALL BE COLLECTED IN A LEAK PROOF CONTAINER SO THAT IT DOES NOT REACH THE SOIL SURFACE AND THEN MIGRATE TO SURFACE WATERS OR INTO GROUNDWATER. ALL OF THE COLLECTED CONCRETE WASHOUT WATER AND SOLIDS SHALL BE RECYCLED.



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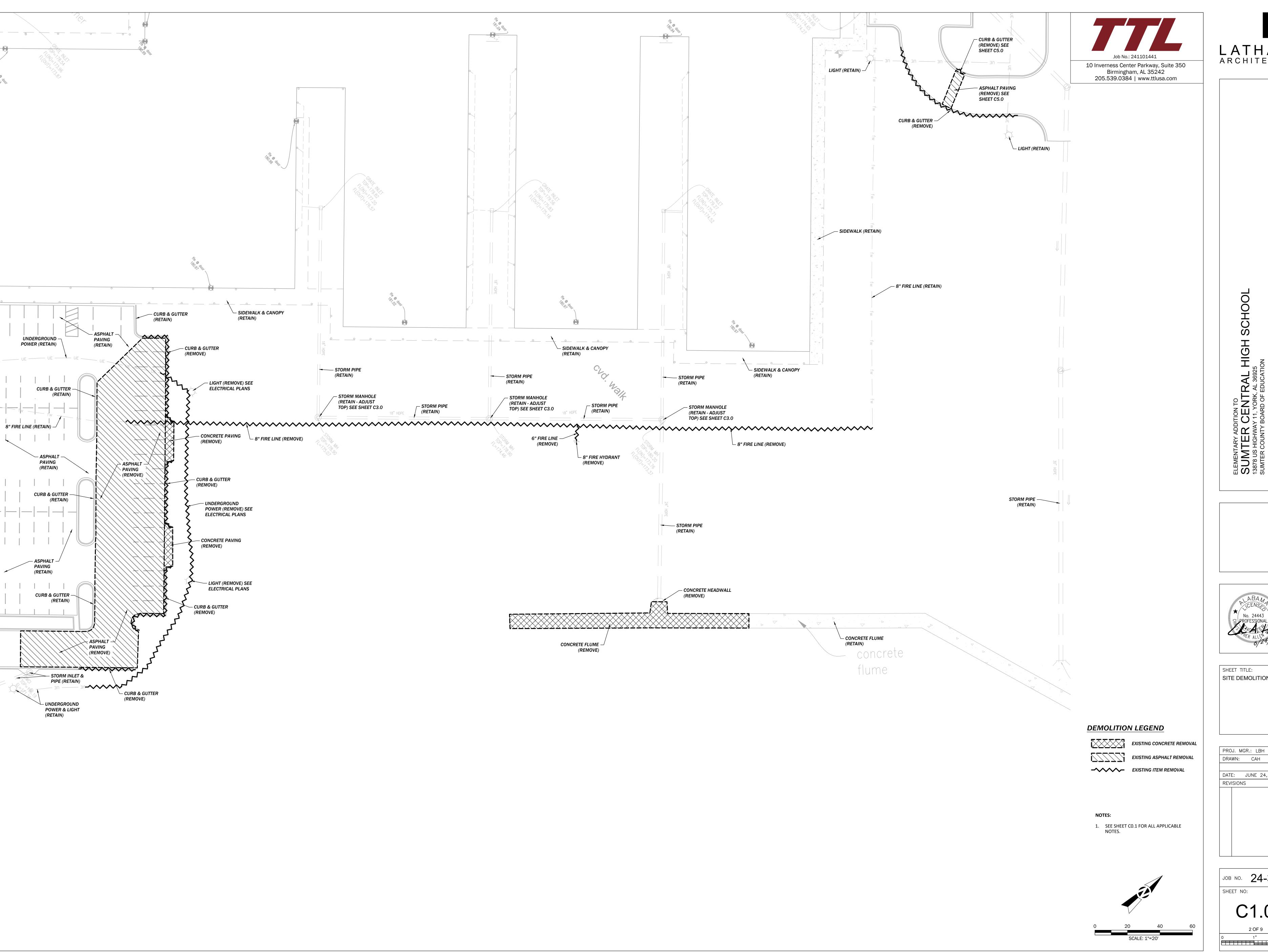


SHEET TITLE: CIVIL NOTES

PROJ. MGR.: LBH DRAWN: CAH

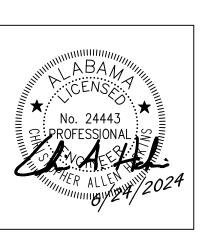
DATE: JUNE 24, 2024 REVISIONS

JOB NO. **24-38**





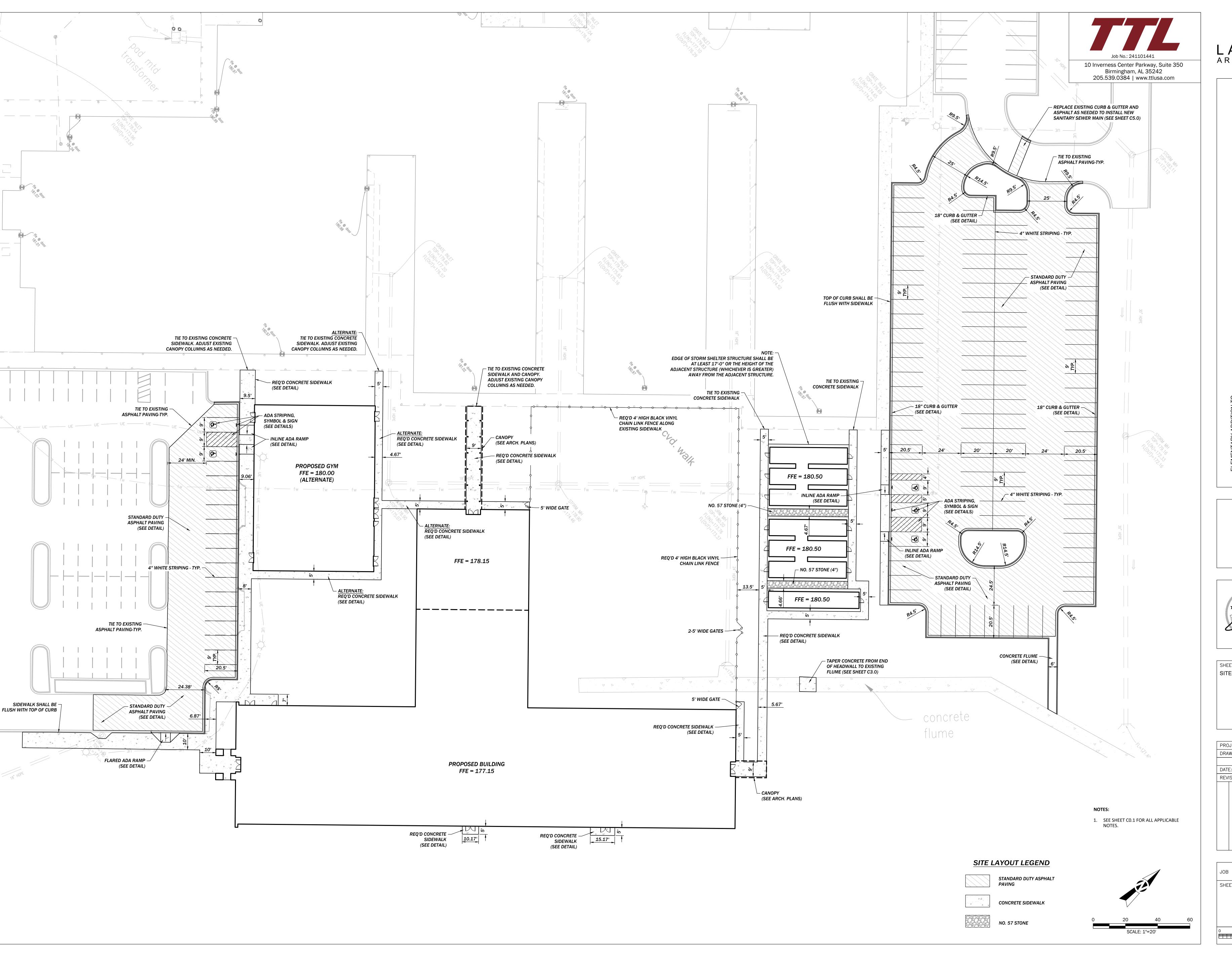
ELEMENTARY ADDITION TO SUMTER CENT 13878 US HIGHWAY 11, YORK SUMTER COUNTY BOARD OF



SHEET TITLE: SITE DEMOLITION PLAN

PROJ. MGR.: LBH DRAWN: CAH DATE: JUNE 24, 2024 REVISIONS

JOB NO. **24-38** SHEET NO:



LATHAN ARCHITECTS

ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 24443

PROFESSIONAL

NO. 24443

NO. 24443

NO. 24443

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NO. 24443

NO. 24443

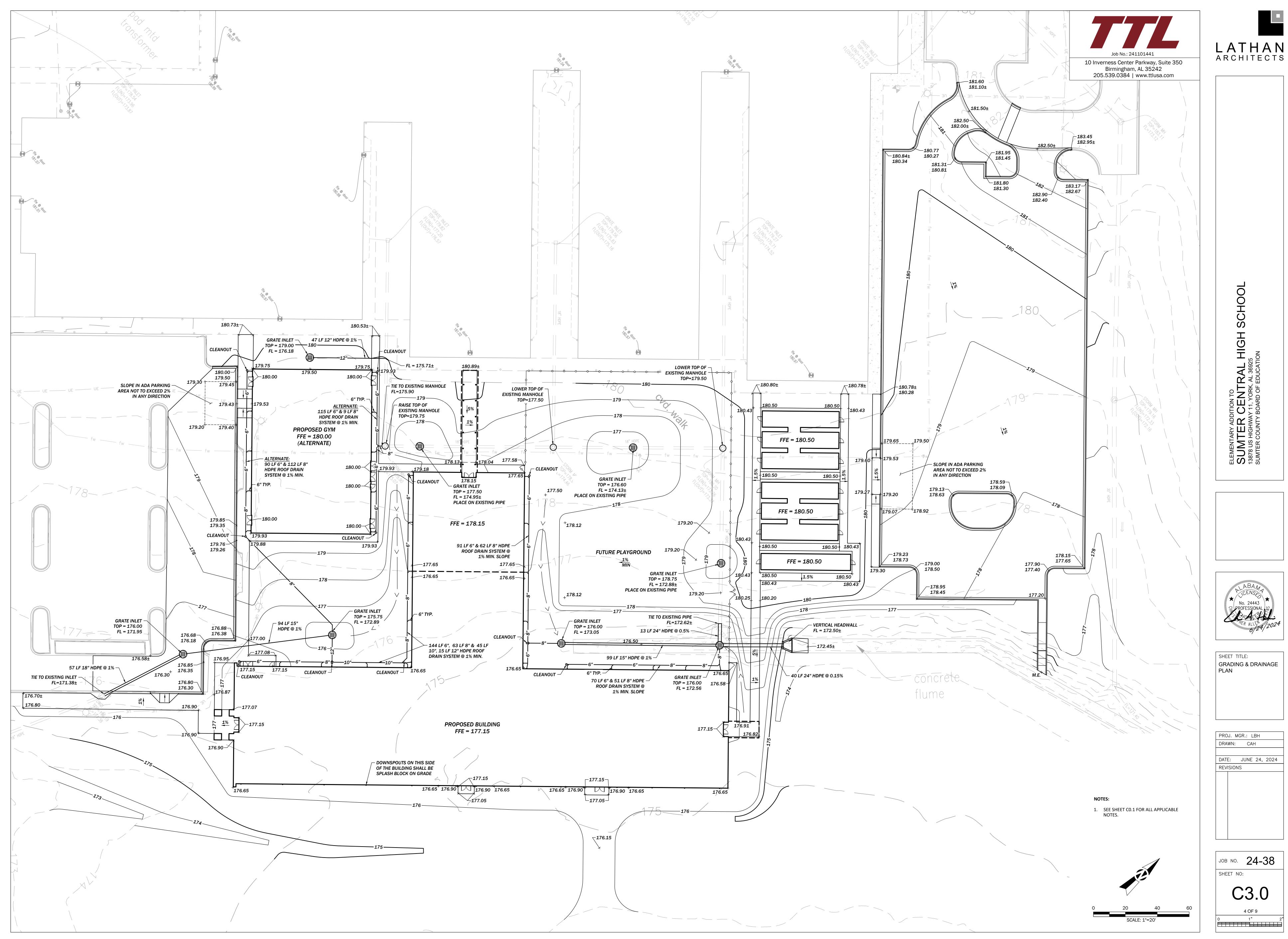
SHEET TITLE:
SITE LAYOUT PLAN

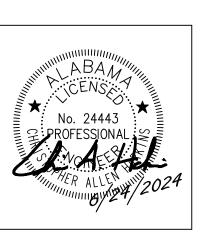
PROJ. MGR.: LBH
DRAWN: CAH

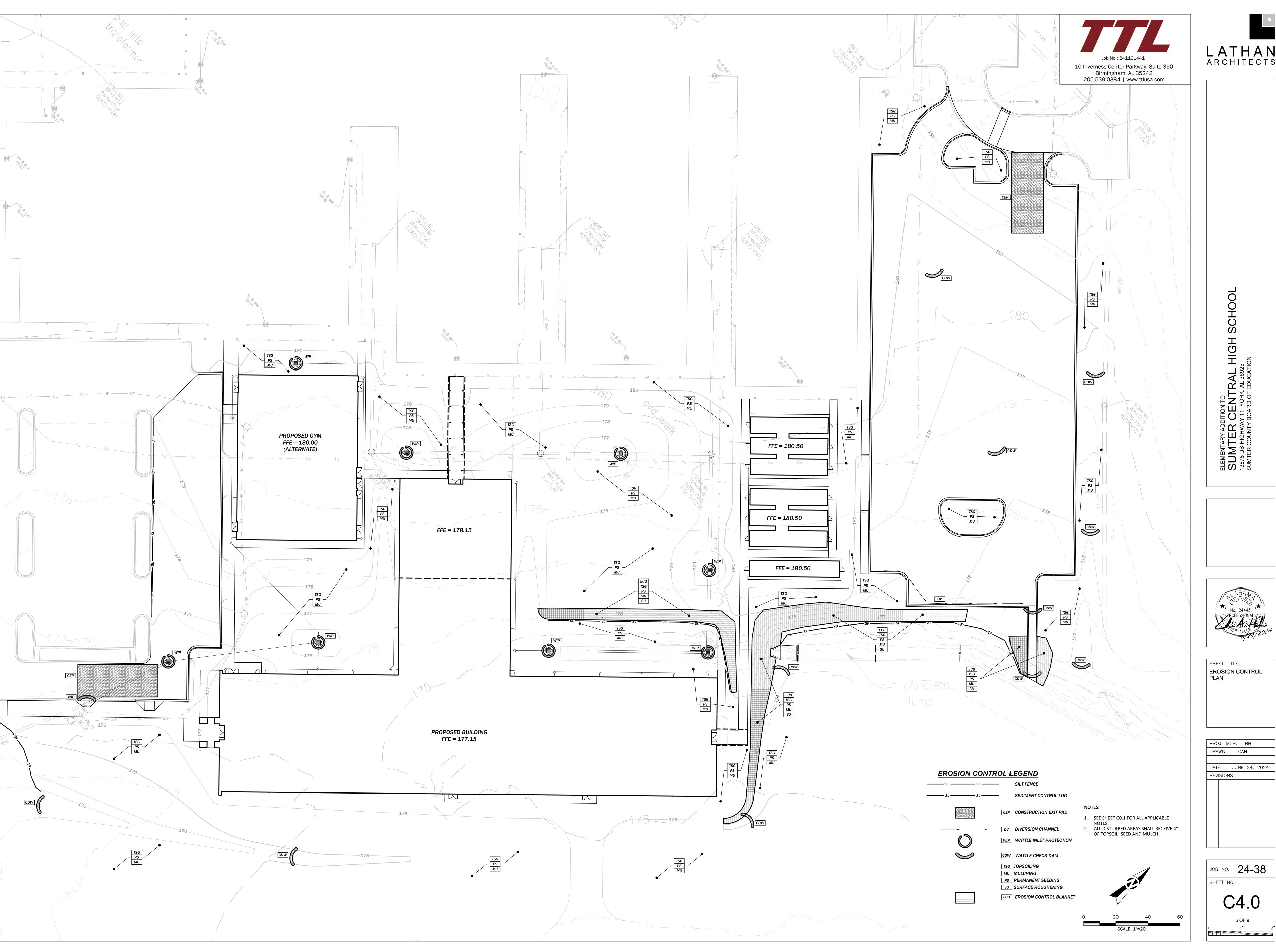
DATE: JUNE 24, 2024
REVISIONS

JOB NO. 24-38
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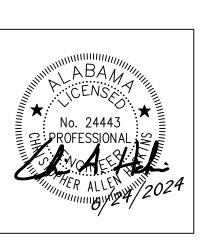
3 OF 9







SUMTER CENT 13878 US HIGHWAY 11, YORK SUMTER COUNTY BOARD OF

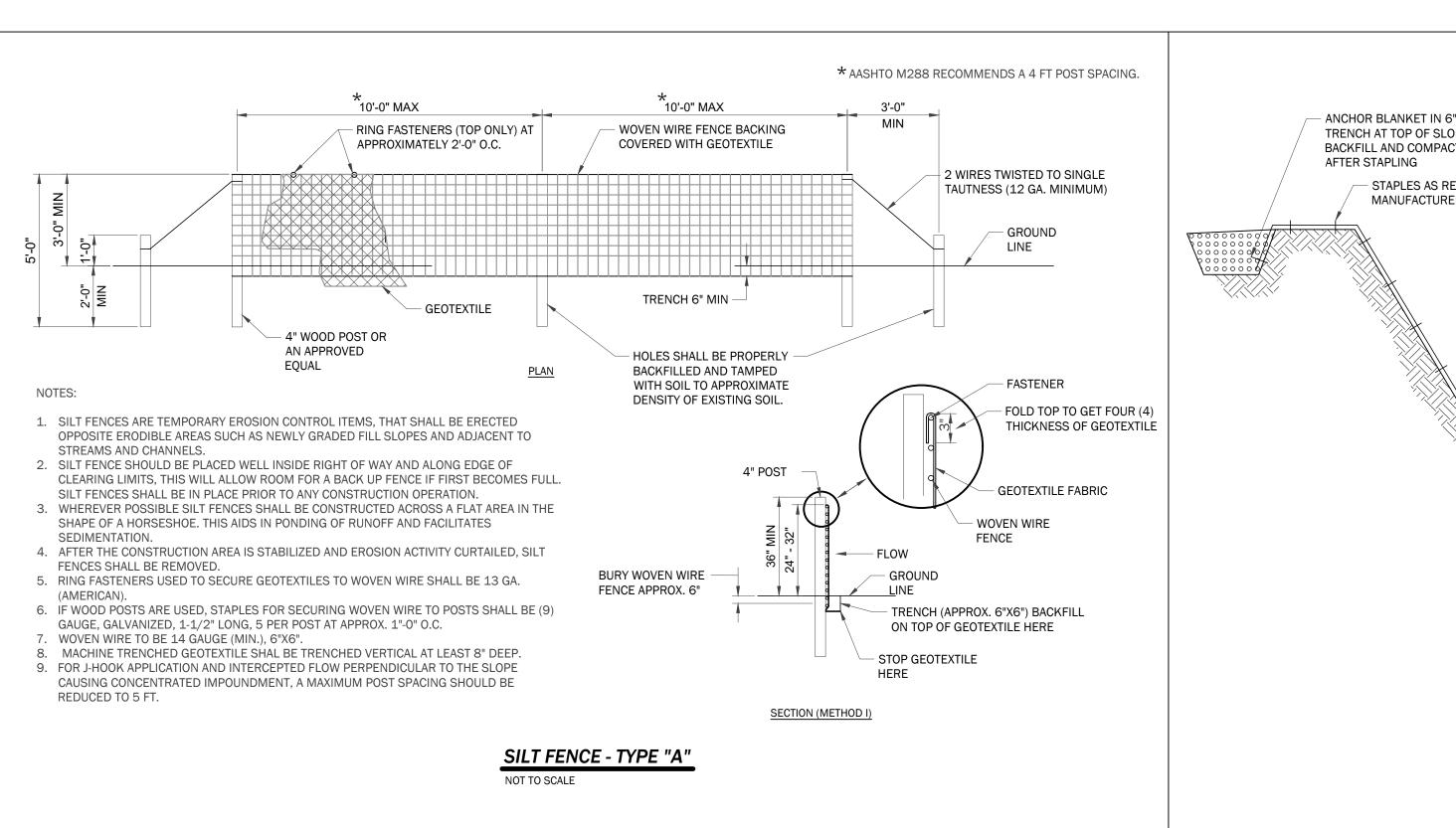


EROSION CONTROL

PROJ. MGR.: LBH DRAWN: CAH DATE: JUNE 24, 2024

JOB NO. **24-38**

C4.0 5 OF 9



- GEOTEXTILE UNDERLAYMENT

20" WATTLE

20" WATTLE

SECTION B-B

(8 OZ. NON-WOVEN)

- REQ'D WOOD STAKE

(TYP.) 2' O.C.

- INLET PROTECTION FOR GUTTER

FLOW SHALL BE IN ACCORDANCE

BY THE ENGINEER.

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE

*3. SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

NOT TO SCALE

WATTLE INLET PROTECTION

CURB INLET PROTECTION

2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (18" MIN, 3' MAX).

SPACING SHALL BE A MAXIMUM OF TWO FEET.

WITH ESC-400-5 OR AS DIRECTED

PIN GEOTEXTILE ON -

OVERLAPPED — 18" MIN.

*20" WATTLE

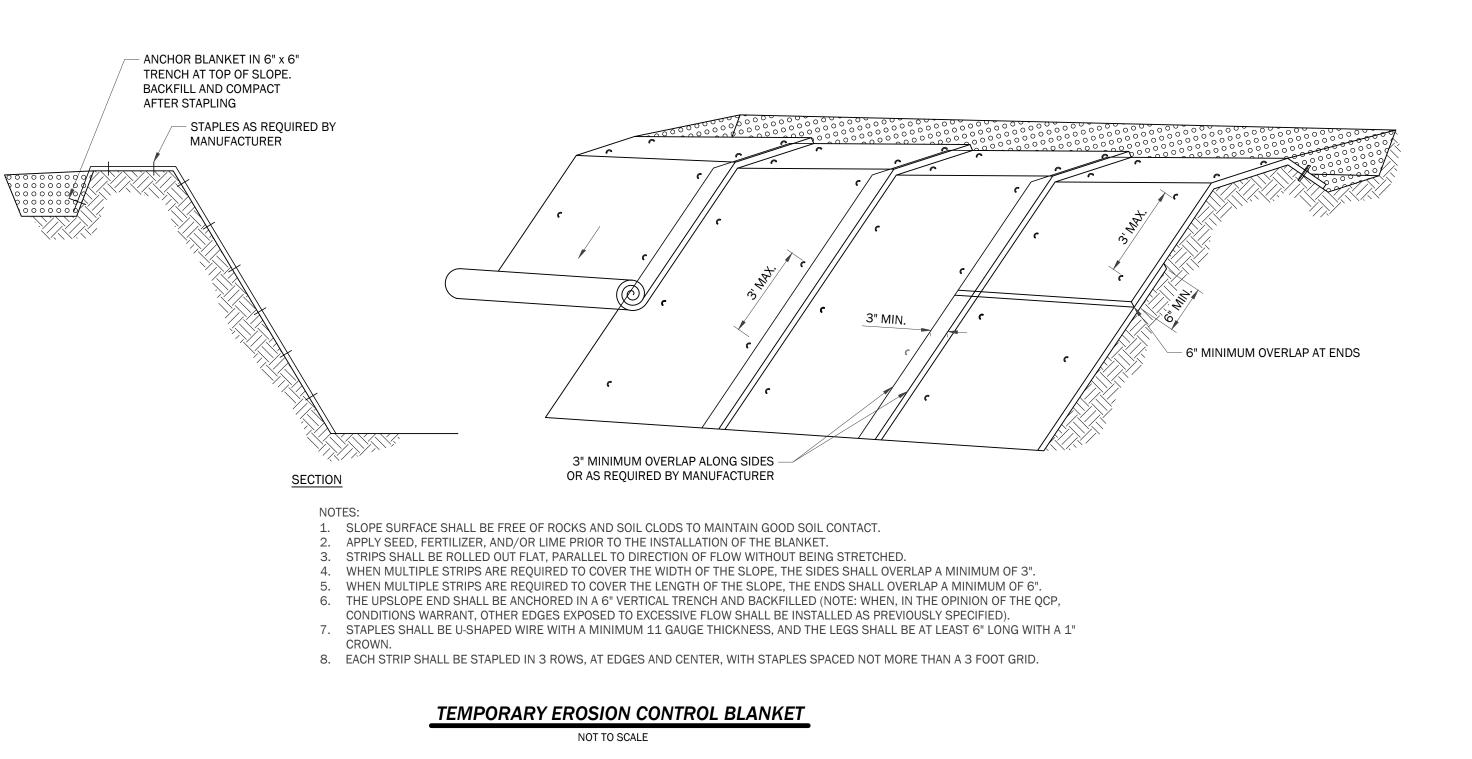
BOTH INSIDE AND

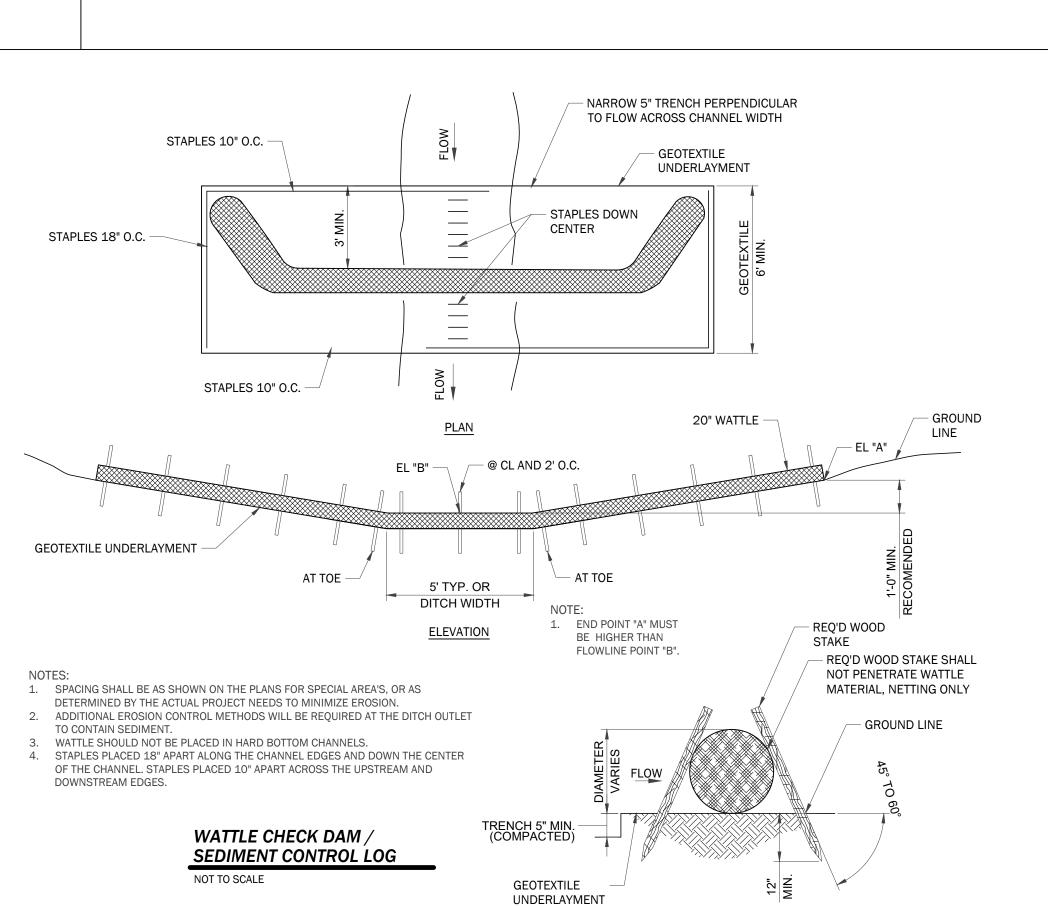
OUTSIDE EDGE 5"

SOD STAPLES EACH SIDE

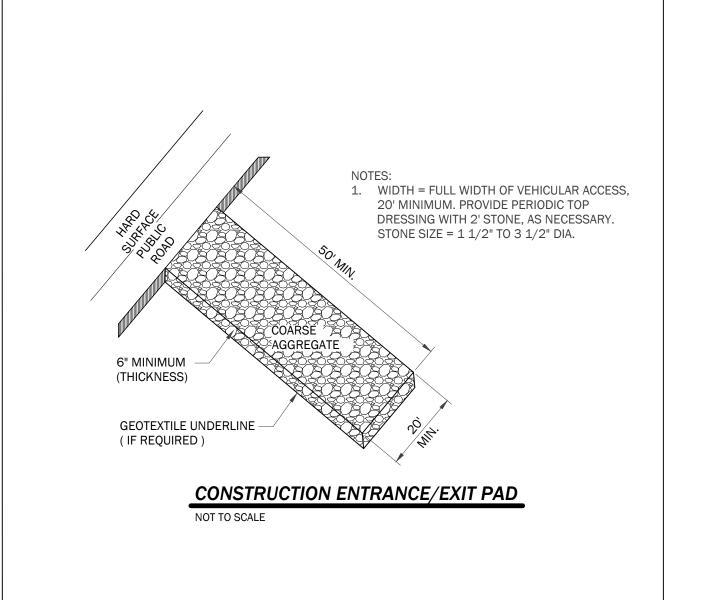
OF WATTLE 10" O.C.

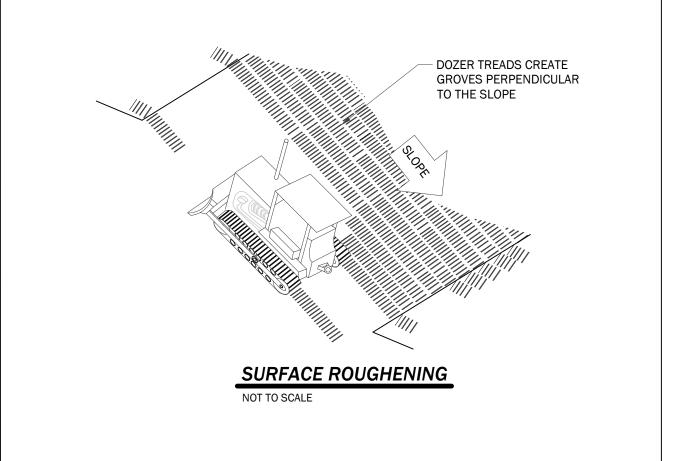
WOOD -STAKE





WATTLE INSTALLATION

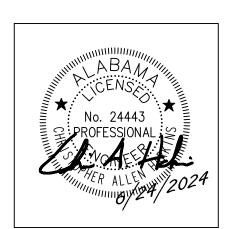








SUMTER CENTRAL HIGH SCHOOL 13878 US HIGHWAY 11, YORK, AL 36925 SUMTER COUNTY BOARD OF EDUCATION



SHEET TITLE:
EROSION CONTROL
DETAILS

PROJ. MGR.: LBH
DRAWN: CAH

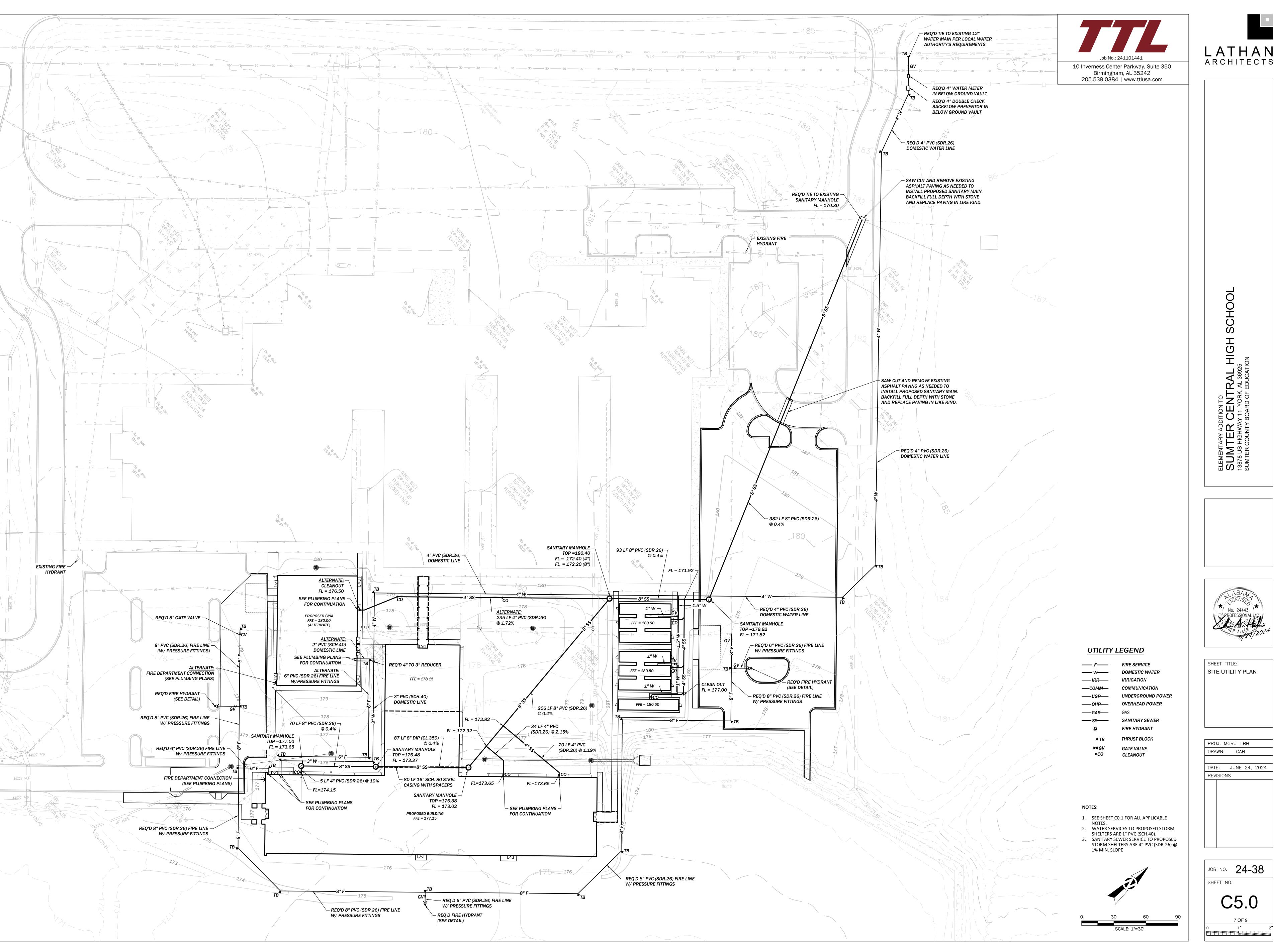
DATE: JUNE 24, 2024
REVISIONS

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JOB NO. **24-38**SHEET NO:

C4.1

1"





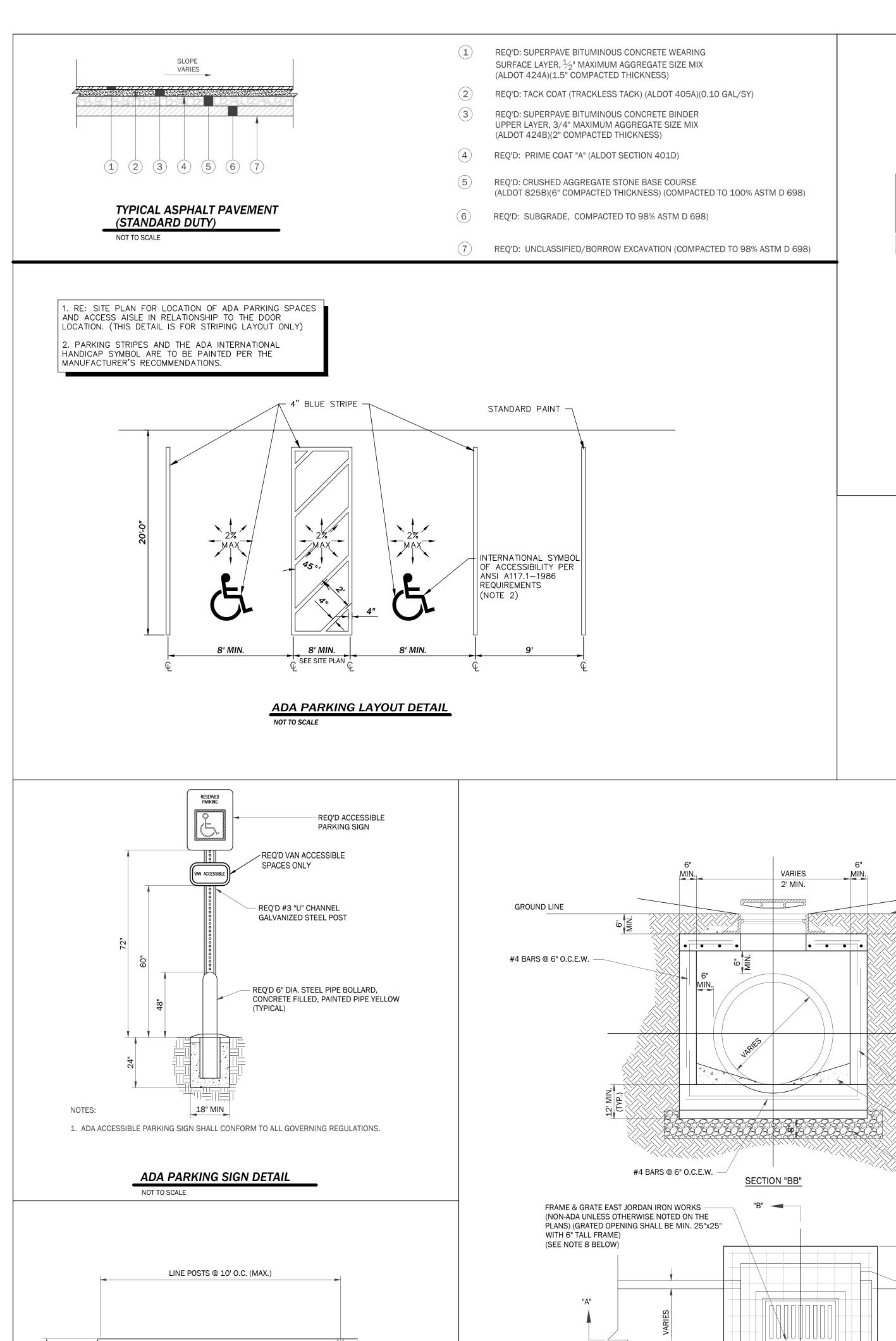


SHEET TITLE: SITE UTILITY PLAN

PROJ. MGR.: LBH DRAWN: CAH DATE: JUNE 24, 2024 REVISIONS

JOB NO. **24-38** SHEET NO:

C5.0 7 OF 9



- 1 5/8" Ø TOP RAIL AND BRACE

2" MESH 9 GA. WIRE (COATED BLACK)

NO. 7 TENSION WIRE (TYP.)

___ 2 1/2" O.D. CORNER

AND PULL POSTS

(COATED BLACK)

3000 PSI CONCRETE

1. THE PERMANENT CHAIN LINK FENCING SHALL BE VINYL COATED BLACK WITH A HIGH GRADE, EXTERIOR FINISH.

2. WHERE BREAKS IN PROFILE OF FENCE TOP ARE NECESSARY IN ROUGH TERRAIN THEY SHALL BE MADE IN THE

LEAST NUMBER OF INTERVALS PRACTICAL. BREAKS SHALL SPREAD OVER VERTICAL CURVES OF SUFFICIENT

VINYL COATED CHAINLINK FENCE DETAIL

NOT TO SCALE

-

LENGTHS TO ENSURE A PLEASING APPEARANCE.

@3.12 lbs/ft (WT-40)

2" O.D. LINE POST -

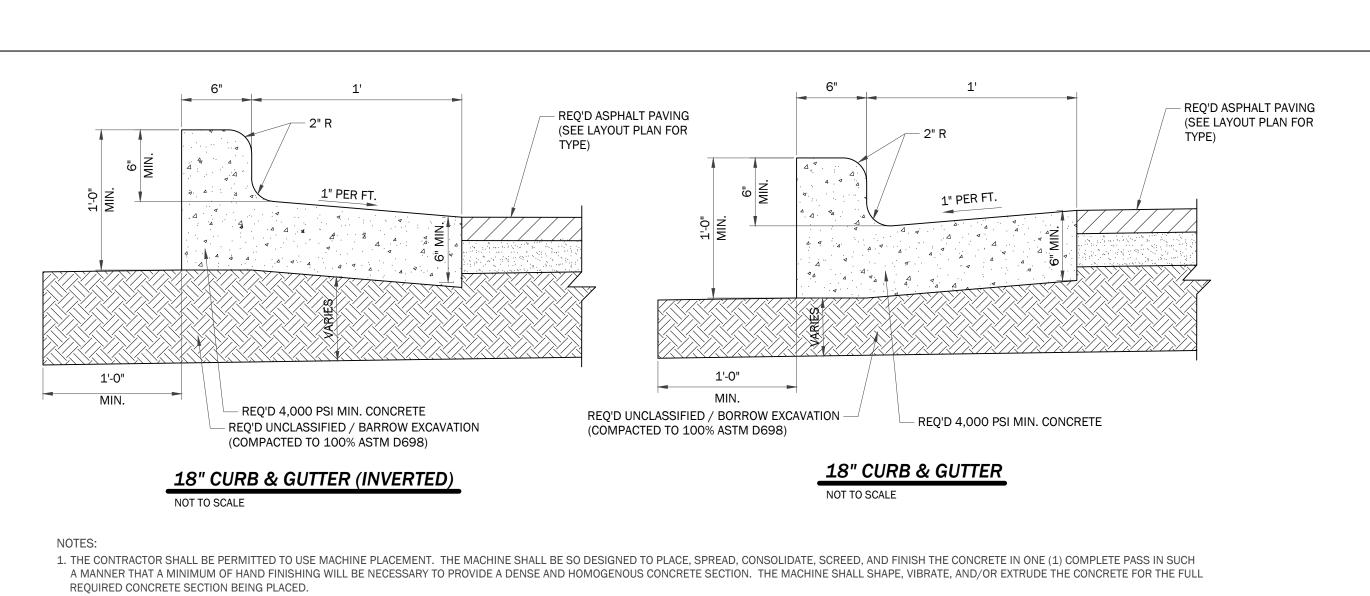
(COATED BLACK)

@ 2.28 lbs/ft (WT-40)

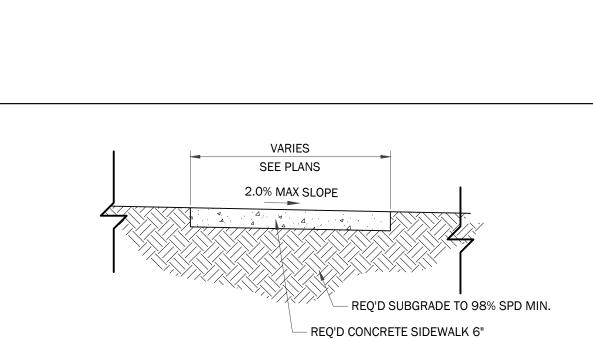
- 3/8" TRUSS ROD

(TYP. AT CORNERS)

(TYP. AT CORNERS)



2. EXPANSION JOINTS REQ'D. @ 50' INTERVALS (IF HAND FORMED), AT ALL RADII POINTS AT CONCRETE ENTRANCES AND CURB RETURNS, AT DROP INLETS, AT END OF WORK DAYS, AND/OR ALL COLD JOINTS. FILLER MATERIAL SHALL CONFORM TO ASTM C920 AND BE FURNISHED IN A SINGLE ONE-HALF INCH (1/2") THICK PIECE FOR FULL DEPTH AND WIDTH OF THE JOINT. 3. CONTRACTION JOINTS MAY BE SAWCUT OR HANDFORMED. JOINTS SHALL BE 1/4 x CONCRETE THICKNESS IN DEPTH BY 1/8" WIDE AND SHALL BE 10' O.C. 4. SEE GRADING/EARTHWORK NOTES AND SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.



1. EXPANSION JT. REQ'D. @ 40' MAX. INTERVALS BUT NOT LESS THAN 30' WITH EXPANSION JOINT MATERIAL. 2. CONTRACTION JOINTS SHALL BE HAND-TOOLED ONLY IN LOCATIONS AS INDICATED BY THE SCORING PATTERN SHOWN IN THE CONSTRUCTION PLANS. JOINTS SHALL BE INSTALLED AT A DEPTH OF 1/4 THICKNESS OF THE SLAB MIN. NO SAW-CUT OF JOINTS IS ALLOWED. 3. SIDEWALKS SHALL HAVE AN EXPANSION JOINT INSTALLED IN ALL LOCATIONS WHERE NEW IMPROVEMENTS MEET

THICK 4,000 PSI CONCRETE

4. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%. 5. THE CONTRACTOR SHALL PROVIDE 3 MOCKUP PANELS (AT MINIMUM 3' X 3' IN SIZE) THAT HE FLOATS LIGHT BROOM, MEDIUM BROOM, AND HEAVY BROOM. THE OWNER WILL CHOOSE THE FINISH THEY DESIRE FOR THE PROJECT AND THE CONTRACTOR WILL PROCEED AS DIRECTED. 6. ALL STONE SHALL BE MECHANICALLY COMPACTED IN PLACE, NO EXCEPTIONS.

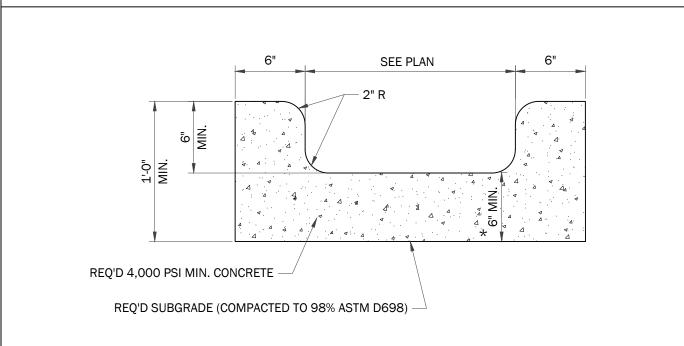
7. CONTRACTOR SHALL REFERENCE THE PLANS FOR THE CONCRETE SIDEWALK SCORING PATTERN. THE CONTRACTOR SHALL MATCH THIS PATTERN AS SHOWN. 8. EXPANSION JOINT MATERIAL SHALL BE PUSHED DOWN 1/8" FROM TOP OF SIDEWALK. 9. EXPANSION JOINT MATERIAL SHALL BE CONTINUOUS THROUGH THE OVERALL DEPTH OF THE SIDEWALK.

EXISTING INFRASTRUCTURE.

CONCRETE SIDEWALK

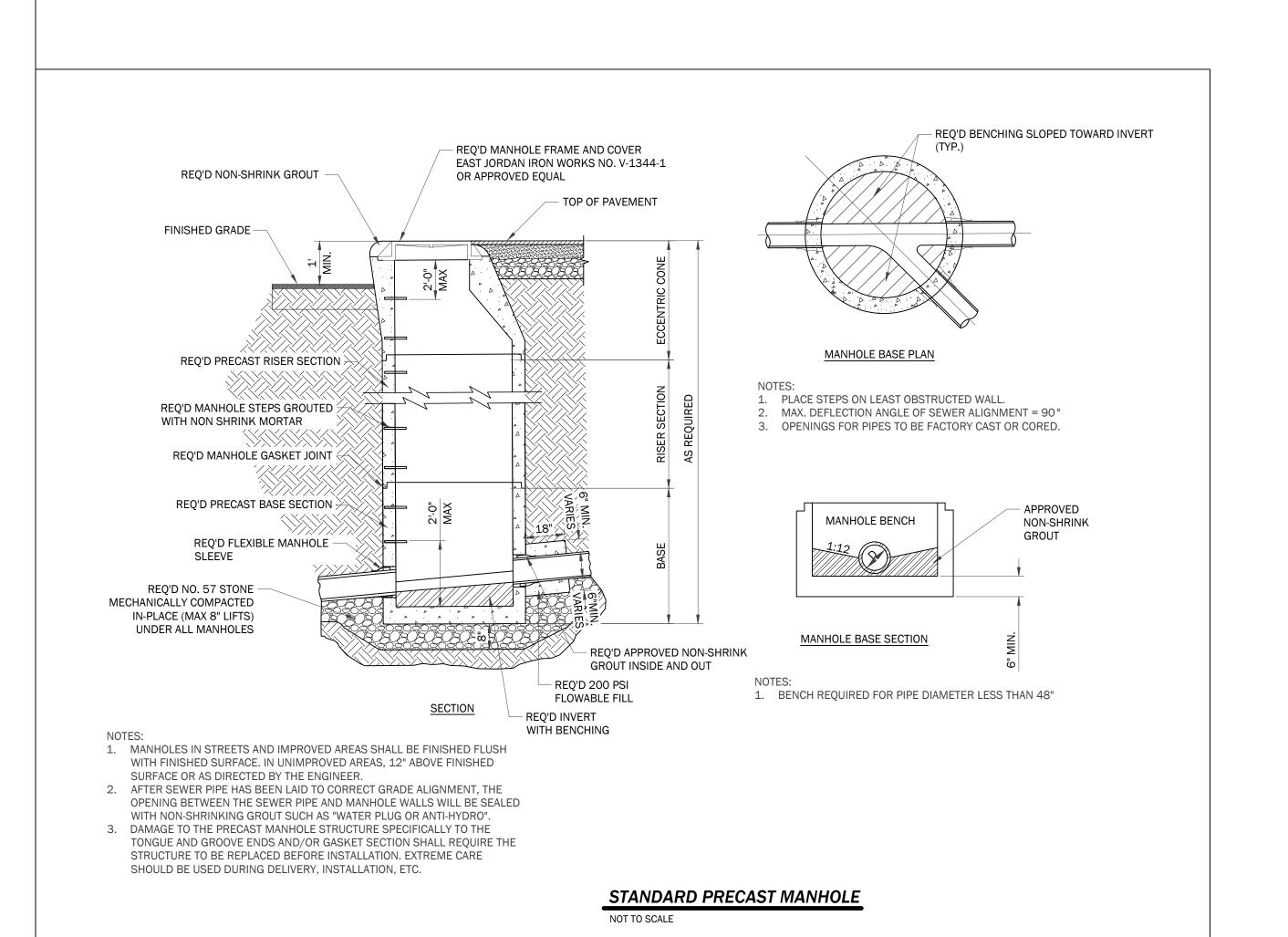


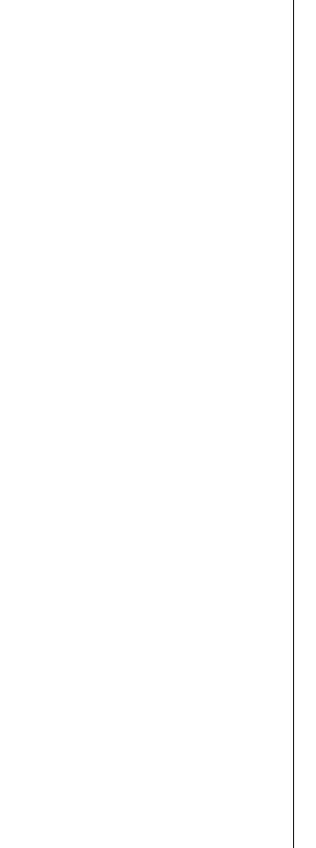




CONCRETE FLUME

* 1. EXPANSION JOINTS REQ'D. @ 50' INTERVALS, AT ALL RADII POINTS AT CONCRETE ENTRANCES AND CURB RETURNS, AT DROP INLETS, AT END OF WORK DAYS, AND/OR ALL COLD JOINTS. FILLER MATERIAL SHALL CONFORM TO ASTM C920 AND BE FURNISHED IN A SINGLE ONE-HALF INCH (1/2") THICK PIECE FOR FULL DEPTH AND WIDTH OF THE JOINT. 2. CONTRACTION JOINTS MAY BE SAWCUT OR HANDFORMED. JOINTS SHALL BE 1/4 x CONCRETE THICKNESS IN DEPTH BY 1/8" WIDE AND SHALL BE 10' O.C.





JOB NO. **24-38** SHEET NO:

SHEET TITLE:

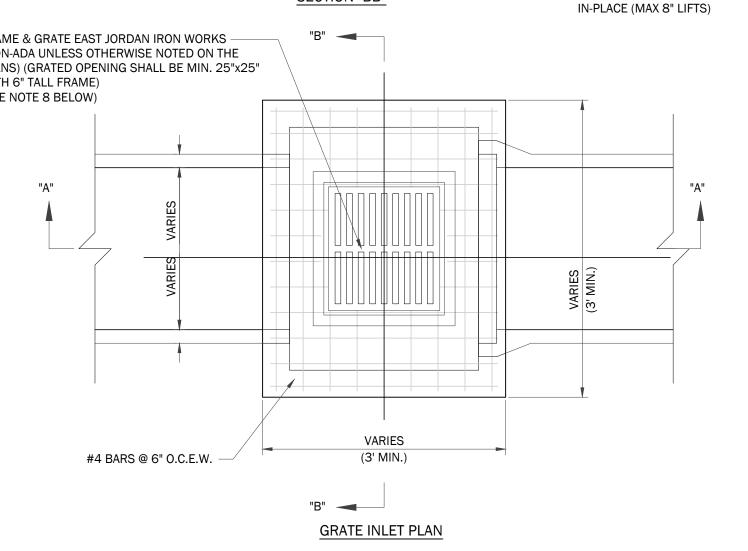
CIVIL DETAILS

PROJ. MGR.: LBH

DRAWN: CAH

REVISIONS

DATE: JUNE 24, 2024



— GROUND LINE*

- #4 BARS @ 6" O.C.E.W.

- REQ'D INVERT

REQ'D NO. 57 STONE

MECHANICALLY COMPACTED

NOTES FOR ALL CONCRETE STORM DRAIN STRUCTURES: 1. USE MIN. 3000 P.S.I. CONCRETE AND DEFORMED REINFORCING STEEL TO CONSTRUCT THIS ITEM.

2. SHAPE BOTTOM TO FLOW LINE OF PIPES. 3. STEPS ARE REQUIRED FOR ALL STRUCTURES OVER 4 FEET IN DEPTH MEASURED FROM TOP OF BOX TO INVERT OUT. STEP SPACING SHALL BE AS DIRECTED BY THE ENGINEER.

4. ALL CONCRETE BOXES SHALL INCLUDE FORMED INVERTS AND RING AND COVERS OF THE TYPE SPECIFIED. 5. GROUND LINE SHALL BE SLOPED TOWARD GRATE INLET TOP. GROUND LINE SHALL BE SLOPED AWAY FROM

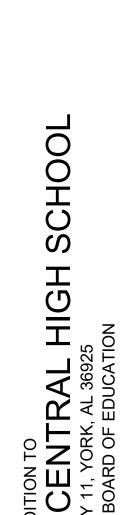
6. THE CONTRACTOR SHALL REFER TO SPECIAL DRAWING NO. JB-620-B OF THE ALDOT SPECIAL AND STANDARD DRAWINGS, LATEST EDITION, FOR DIMENSIONS AND OTHER INFORMATION NECESSARY TO CONSTRUCT THIS ITEM. 7. WHEN INSTALLING A SOLID TOP FOR JUNCTION BOX OR HOLED TOP FOR GRATE INLET ON AN EXISTING STRUCTURE, THE CONTRACTOR SHALL DOWEL INTO THE TOP OF THE EXISTING STRUCTURE WALLS WITH 12" LONG #5 BARS AT 6" O.C. ALONG THE PERIMETER OF THE STRUCTURE TO ATTACH THE NEW TOP. THE CONTRACTOR SHALL APPLY AN APPROVED EPOXY FOR THE DOWEL INSTALLATIONS. THE TOP REINFORCEMENTS SHALL THEN BE TIED TO THESE

DOWELS. PREPARATION OF THE EXISTING CONCRETE SHALL FOLLOW THE CONCRETE SPECIFICATIONS. 8. FRAME SHALL BE EJIW MODEL V5626-2 & GRATE SHALL BE EJIW MODEL V5726, OR APPROVED EQUAL. 9. IF THE CONTRACTOR CHOOSES TO USE A STANDARD PRECAST MANHOLE FOR THE DRAINAGE STRUCTURE, THEN HE SHALL REFERENCE THE STANDARD PRECAST MANHOLE DETAIL FOR ALL REQUIREMENTS.

GRATE INLET











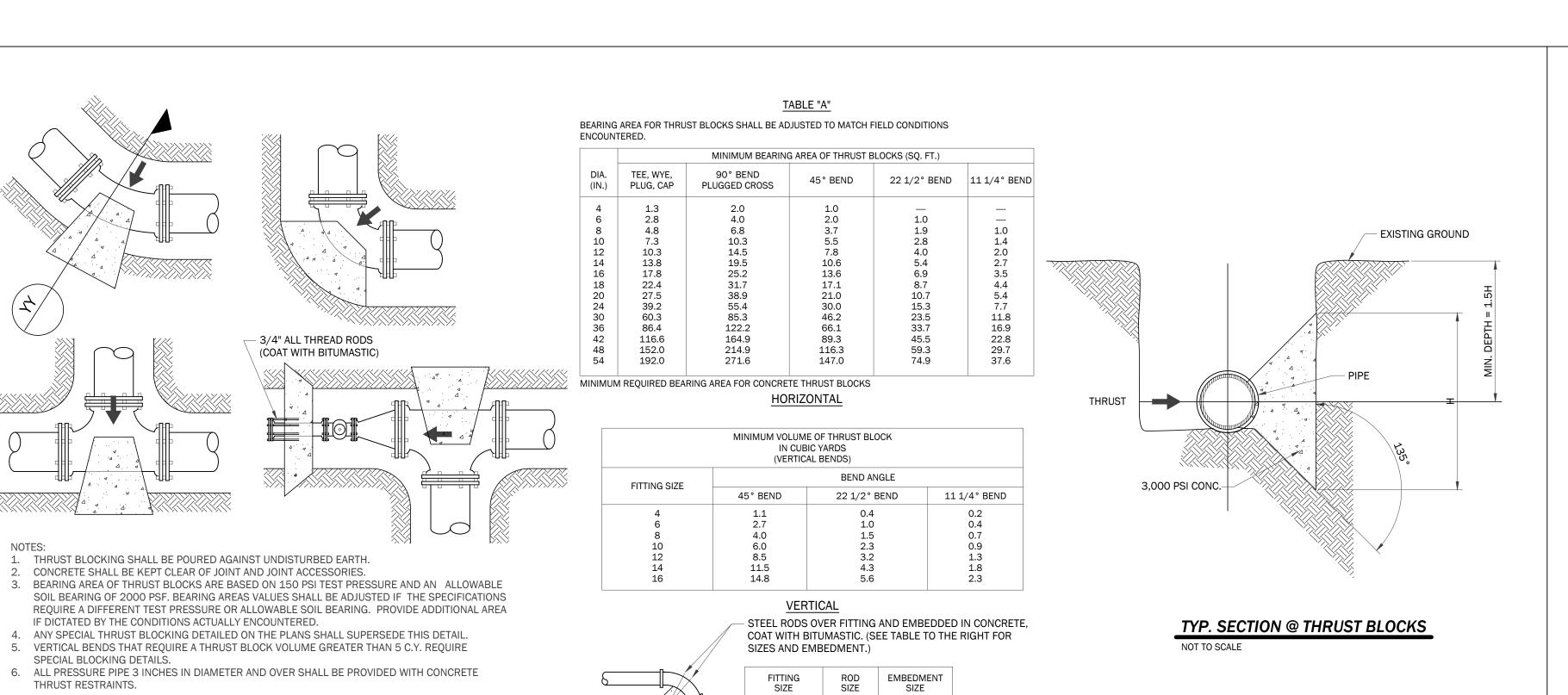
SHEET TITLE: CIVIL DETAILS

PROJ. MGR.: LBH DRAWN: CAH

DATE: JUNE 24, 2024 REVISIONS

JOB NO. **24-38**

C6.1



- 3/4" ALL THREAD RODS

. THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.

4. ANY SPECIAL THRUST BLOCKING DETAILED ON THE PLANS SHALL SUPERSEDE THIS DETAIL.

5. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME GREATER THAN 5 C.Y. REQUIRE

6. ALL PRESSURE PIPE 3 INCHES IN DIAMETER AND OVER SHALL BE PROVIDED WITH CONCRETE

2. CONCRETE SHALL BE KEPT CLEAR OF JOINT AND JOINT ACCESSORIES.

IF DICTATED BY THE CONDITIONS ACTUALLY ENCOUNTERED.

SPECIAL BLOCKING DETAILS.

THRUST RESTRAINTS.

REQ'D CONCRETE SIDEWALK —

REQ'D BACK OF CURB TAPER (6' MIN.)

(COAT WITH BITUMASTIC)

THRUST BLOCKING DETAILS & NOTES

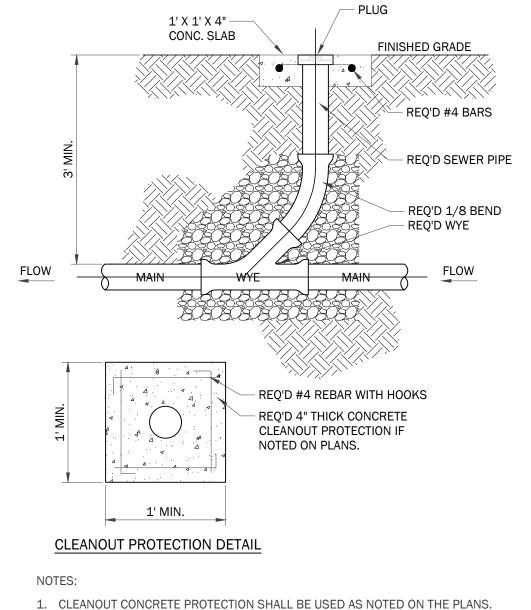
1:12 MAX.

SLOPE

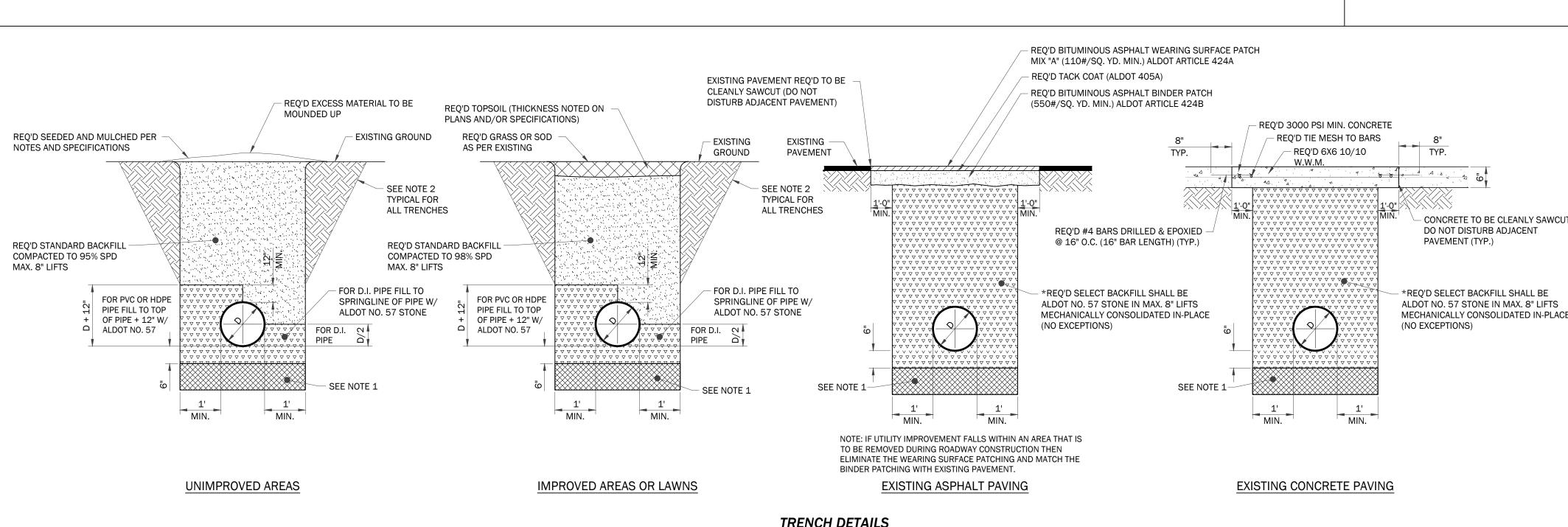
REQ'D 18" COMBINATION -**CURB AND GUTTER**

INLINE ADA RAMP DETAIL

NOT TO SCALE

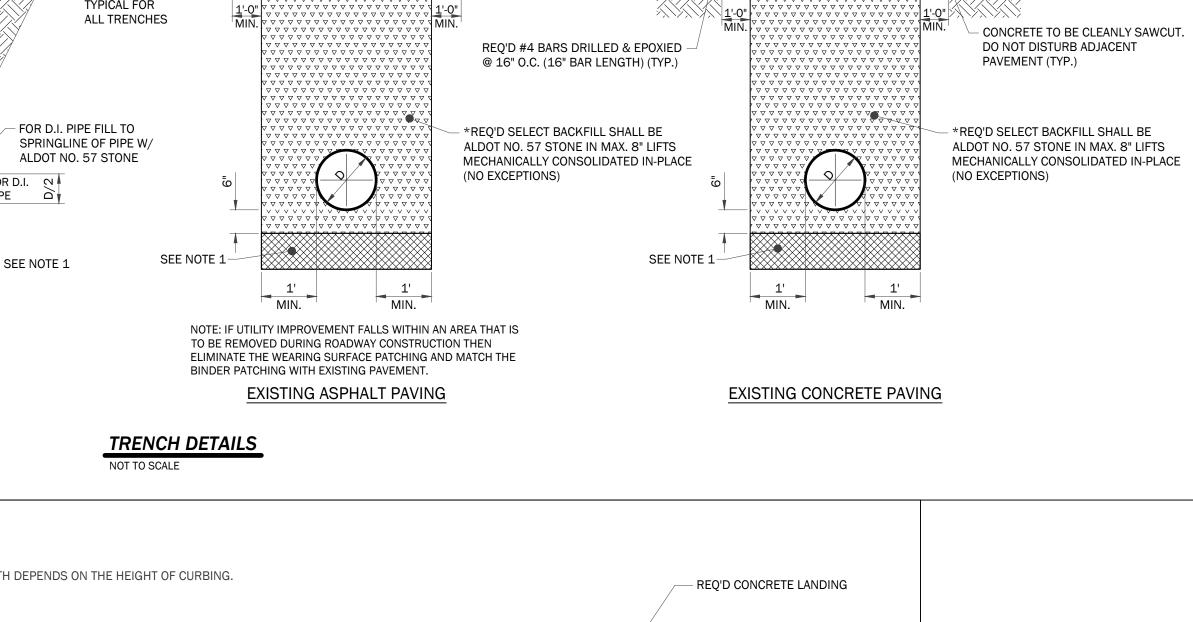


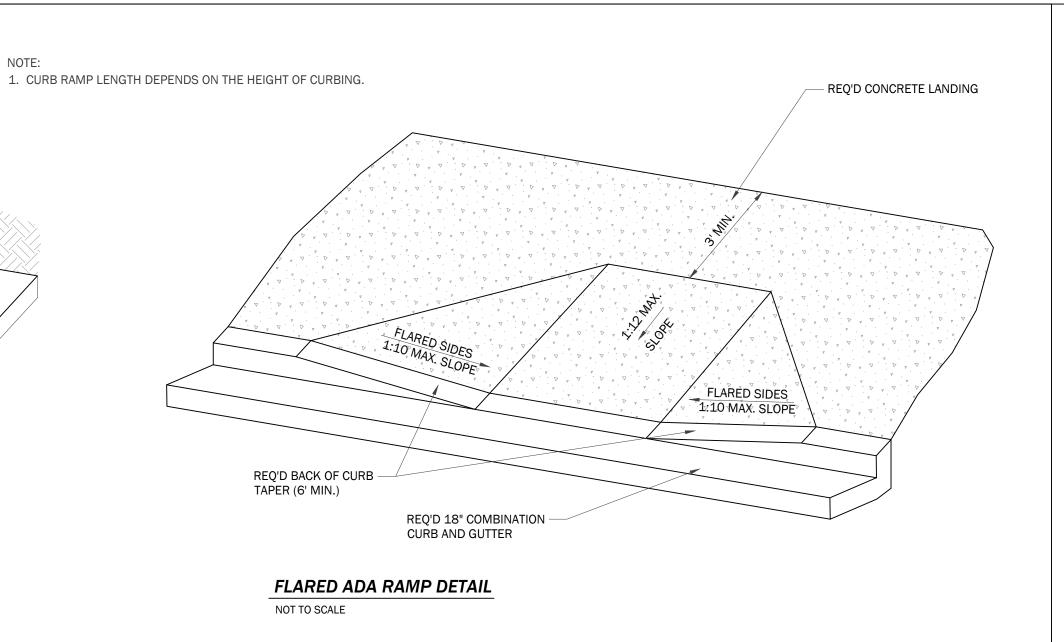
1. CLEANOUT CONCRETE PROTECTION SHALL BE USED AS NOTED ON THE PLANS. 2. CLEANOUTS LOCATED IN PAVED AREAS (SIDEWALK, ROADWAYS, ETC.) SHALL HAVE TRAFFIC RATED TOPS.



12" and less 14" - 16"

8





TRENCH DETAIL NOTES

1. TRENCH FOUNDATION REQUIRED IF DIRECTED BY THE ENGINEER, DEPTH VARIES. THERE IS NO ADDITIONAL PAY FOR TRENCH LAY BACK, BENCHING, SHORING, TRENCH BOXES, ETC. THIS IS CONSIDERED A SUBSIDIARY OBLIGATION TO THE UTILITY INSTALLATION.

*3. THE CONTRACTOR SHALL MECHANICALLY CONSOLIDATE ALL STONE BACKFILL IN MAXIMUM 8" LIFTS AS NOTED. FAILURE TO DO SO SHALL RESULT IN THE STONE BEING REMOVED/REINSTALLED AT THE CONTRACTOR'S EXPENSE OR ONLY PARTIAL PAYMENT BEING MADE FOR THE BID ITEM. STONE SHALL BE PLACED IN APPROPRIATE THICKNESS AND COMPACTED IN THE FOLLOWING SEQUENCE: (1) BEDDING (6" MIN.)

(2) SPRINGLINE OF PIPE (3) ONE FOOT ABOVE TOP OF PIPE

(4) 8" LIFTS FOR REMAINING TRENCH DEPTH

4. UNIMPROVED AREAS SHALL BE CONSIDERED AREAS WHERE NO PREVIOUS DEVELOPMENT HAS OCCURRED AND THE AREA IS NOT MAINTAINED REGULARLY SUCH AS A WOODED/FORESTED AREA OR OPEN FIELD. 5. IMPROVED AREAS OR LAWNS SHALL BE CONSIDERED AREAS WHERE REGULAR MAINTENANCE OCCURS SUCH AS IN PUBLIC RIGHT-OF-WAYS AND ON PRIVATE PROPERTIES. SETTLEMENT OF ANY KIND IN THESE AREAS IS UNACCEPTABLE AND MAXIMUM EFFORT SHALL BE GIVEN TO ENSURE THE IMPROVED/LANDSCAPE AREAS ARE RETURNED TO THEIR PREVIOUS STATE, UNLESS FURTHER IMPROVED BY THE PROJECT.

6. PAVEMENT AREAS (ASPHALT OR CONCRETE) SHALL BE CONSIDERED ANY ROADWAY, DRIVE, SIDEWALK, PAVERS, PARKING LOT, ETC. WHERE THE EXISTING OR FINAL FINISH GRADE IS AN ASPHALT OR CONCRETE

SURFACE. 7. IN AREAS OF EXISTING PAVEMENT, THE TRENCH SHALL BE BACKFILLED COMPLETELY WITH STONE AS SHOWN ON THE EXISTING PAVEMENT TRENCH DETAILS. THESE AREAS INCLUDE CROSSING OF EXISTING ROADWAYS. PARKING LOTS, SIDEWALKS, ETC., AND ARE AREAS WHERE EXCAVATED WIDTHS DO NOT ALLOW FOR COMPACTION AND TESTING OF STANDARD BACKFILL. THESE CONFINED AREAS TYPICALLY CANNOT BE BENCHED BACK AND REQUIRE TALLER TRENCH BOXES TO MAINTAIN OSHA REQUIREMENTS. IN THE EVENT THAT THE EXISTING PAVEMENT AREA IS BEING COMPLETELY REMOVED TO A LIMIT THAT PROVIDES SUFFICIENT SPACE TO ALLOW PROPER VIBRATORY EQUIPMENT AND, IF NECESSARY, BENCHING OF SIDE SLOPES AS REQUIRED IN THE PROJECT EARTHWORK SPECIFICATIONS (BENCHING IS REQUIRED ON SLOPES GREATER THAN 4:1 SLOPE), THEN THE CONTRACTOR MAY FOLLOW THE TRENCH DETAIL FOR PAVED AREAS (NEW CONSTRUCTION). THIS DETAIL ALLOWS FOR THE USE OF EARTHEN BACKFILL AND WOULD ALSO REQUIRE THE CONTRACTOR TO ALLOW SUFFICIENT WIDTH THAT THE OWNER'S GEOTECHNICAL REPRESENTATIVE COULD TAKE PERIODIC COMPACTION TESTS. IF THE CONTRACTOR IS UNSURE OF WHERE STONE OR EARTHEN BACKFILL IS TO BE INSTALLED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST

ROADWAY SUBGRADE -(ASPHALT & CONCRETE BUILD-UPS AS SHOWN IN TYPICAL SECTIONS) SEE NOTE 2 TYPICAL FOR REQ'D STANDARD BACKFILL COMPACTED — ALL TRENCHES TO 98% SPD MAX. 8" LIFTS (FOR NEW CONSTRUCTION ONLY) (SEE NOTE 8) SEE GRAVITY PIPE AND PRESSURE PIPE-TRENCH DETAILS FOR APPROPRIATE INITIAL BACKFILL & BEDDING PER PIPE MATERIAL SEE NOTE 1-

SLAB AND VALVE BOX TO BE SET

FLUSHED WITH FINISH GRADE.

VALVE BOX -

CONCRETE

MINIMUM BEARING

GATE VALVE AND BOX DETAIL

AREA = 3 SQ. FT.

(ADJUSTABLE HEIGHT)

- 3,000 P.S.I.

CONCRETE (4" THICK

COMPACTED BACKFILL

REQUIRED LOCATOR WIRE WRAPPED AROUND

MAIN AND EXTENDED THROUGH VALVE BOX

- PLACE CONCRETE TO AVOID

GLANDS AND ETC.

INTERFERENCE WITH BOLTS,

TRENCH DETAIL - PAVED SURFACES (NEW CONSTRUCTION)

CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.

GENERAL SITE PLAN LEGEND

SEE CIVIL

NEW SEED & MULCH

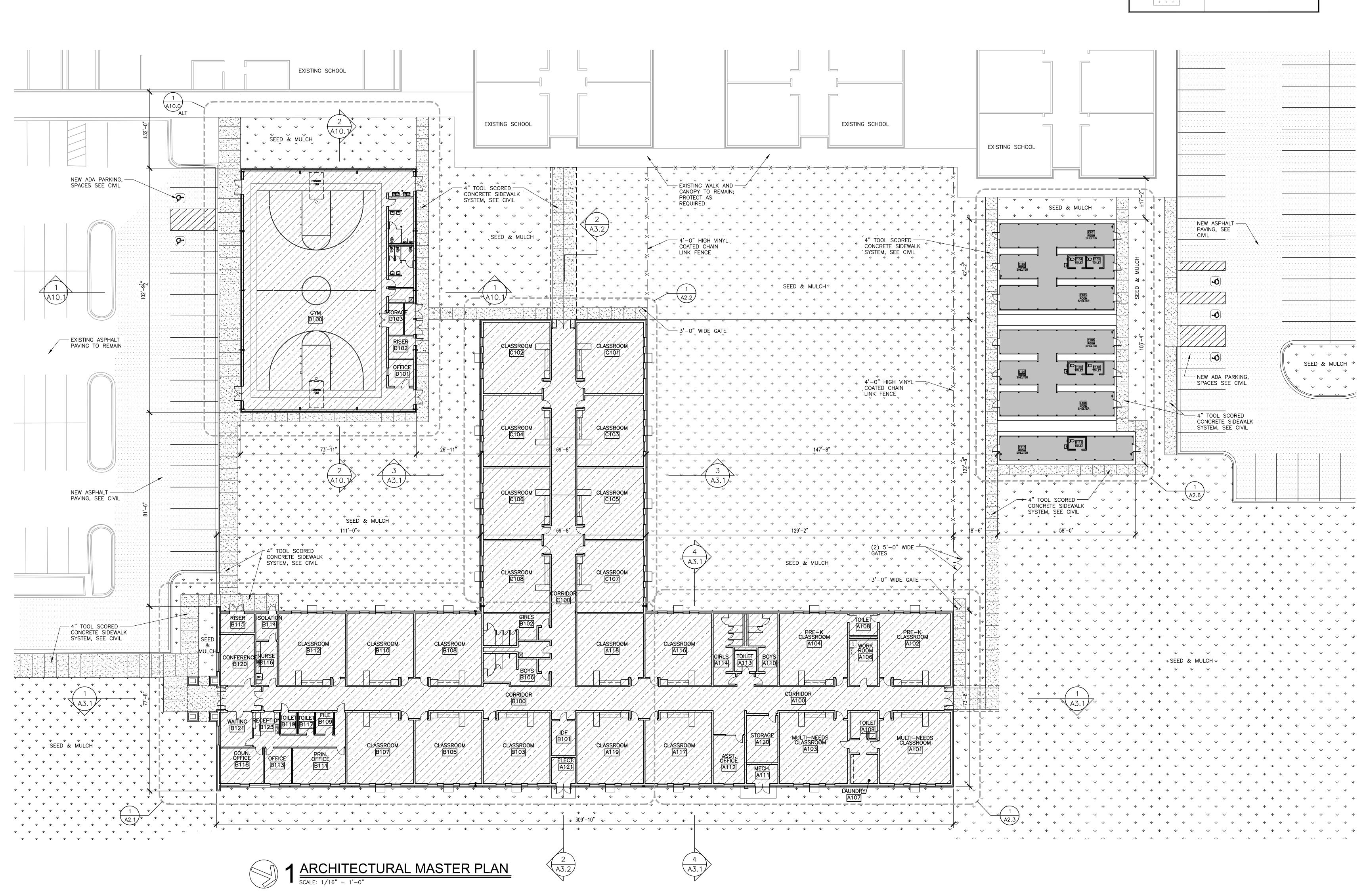
NEW BUILDINGS

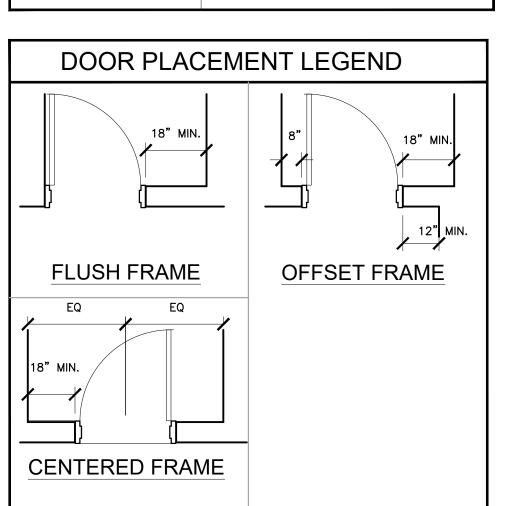
NEW ASPHALT PAVING SYSTEM, SEE

NEW CONCRETE PAVING SYSTEM,

PROJ. MGR.: R. VERNON

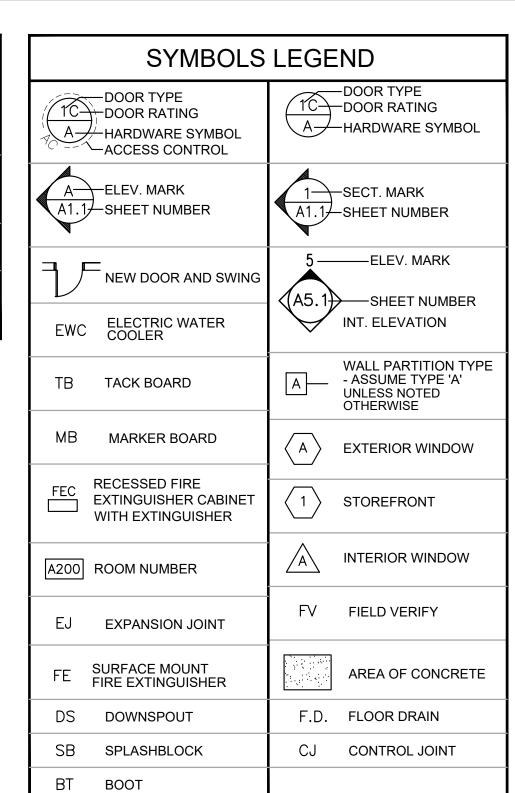
1 OF 27

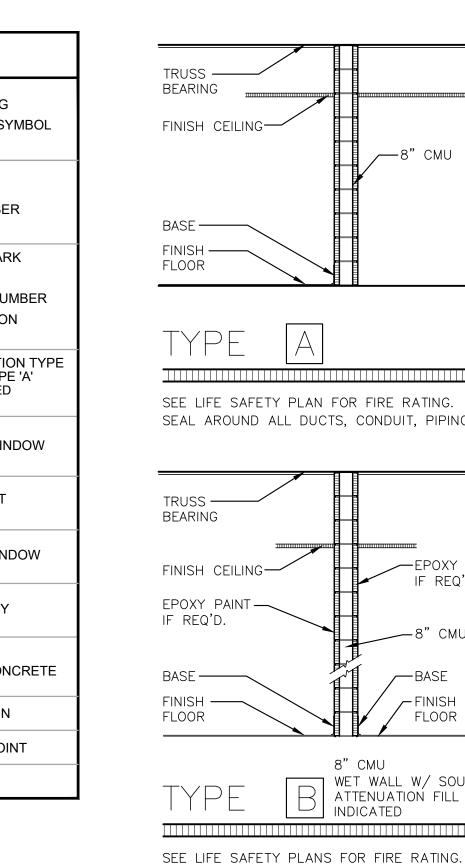


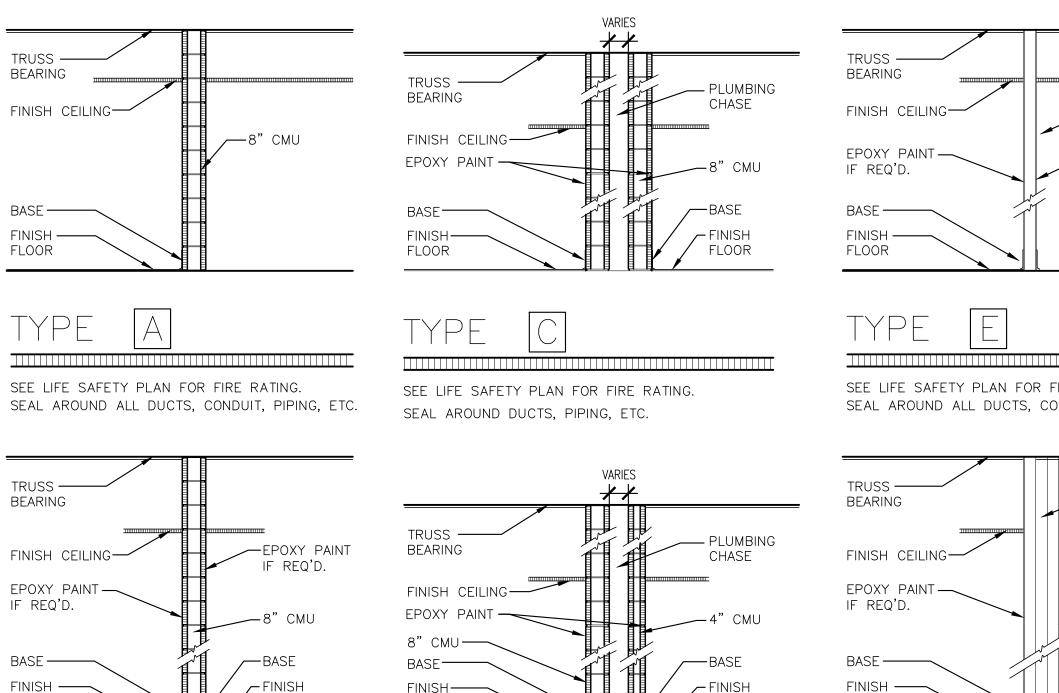


DOOR FI	RE RA	TING LEGEND
DOOR TYPE	(2)	NO RATING
DOOR TYPE + S	(2S)	SMOKE RATING

GENERAL NOTES EXTEND & KEY ALL WALLS TO BOTTOM OF TRUSS BEARING. SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS. COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS ALL PLAN DIMENSIONS ARE TO FACE OF CMU AND TO OUTSIDE OF BRICK UNLESS NOTED OTHERWISE WINDOWS ARE DIMENSIONED TO THE CENTER LINE SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING DOWNSPOUTS SHALL BE PROVIDED WITH BOOTS AND 4" DIAMETER LEADER PIPING EXTENDED AND TIED INTO STORM DRAINAGE SYSTEM WHERE INDICATED SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.

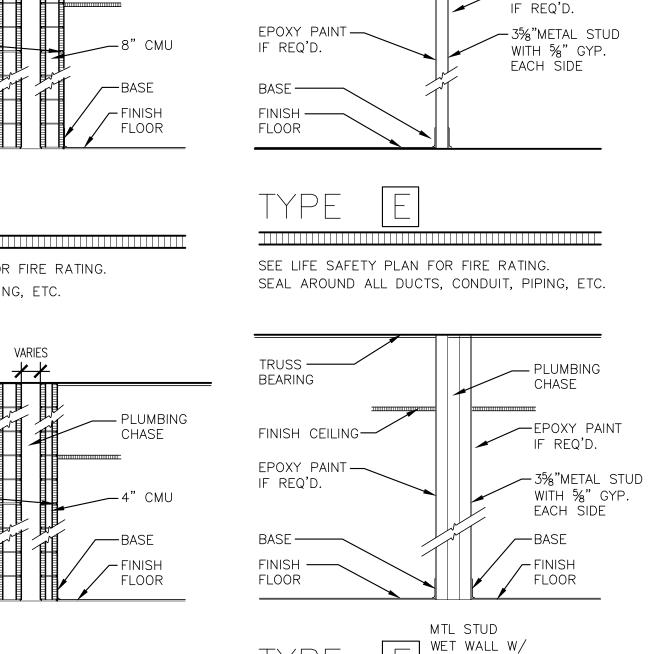






SEE LIFE SAFETY PLAN FOR FIRE RATING.

SEAL AROUND DUCTS, PIPING, ETC.

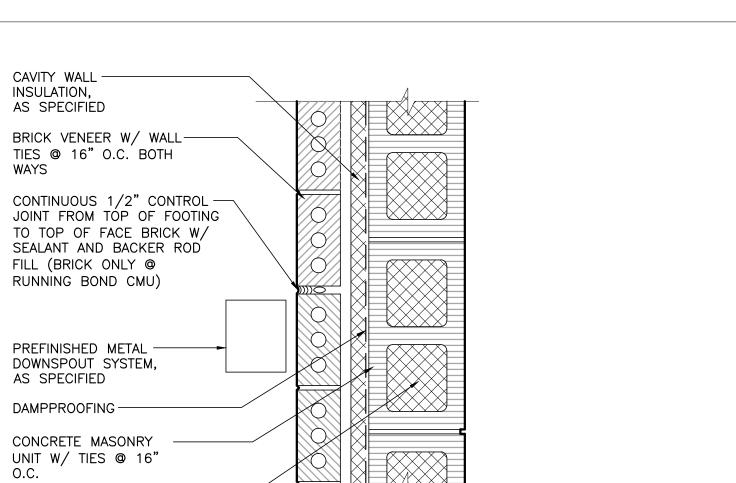


-EPOXY PAINT

- SOUND ATTENUATION ___ FILL AS INDICATED

SEE LIFE SAFETY PLANS FOR FIRE RATING.

SEAL AROUND DUCTS, PIPING, ETC.



CONTROL JOINT DETAIL

FOAM FILL

INSULATION



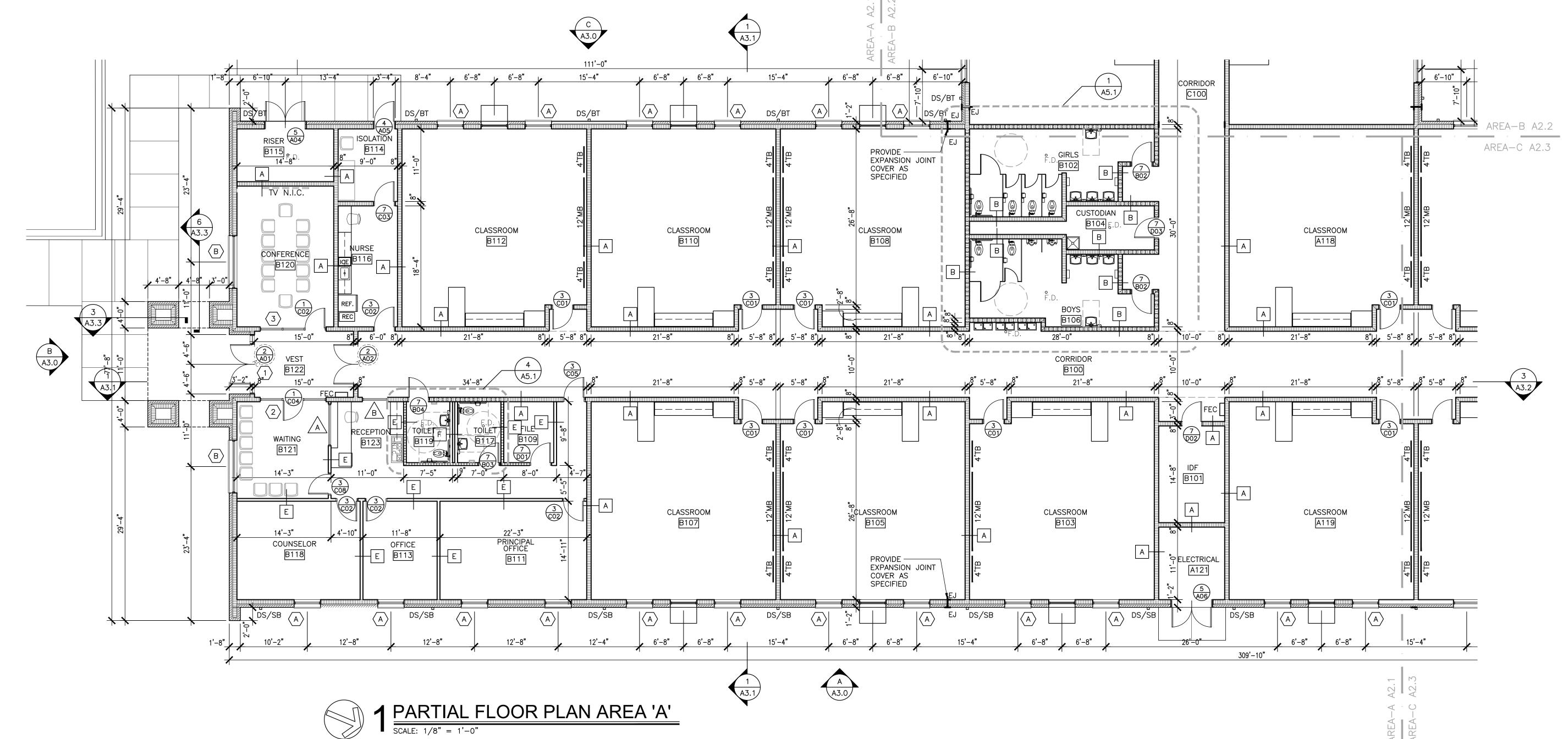
SEAL AROUND DUCTS, PIPING, ETC.

NOTE: SEE LIFE SAFETY PLAN FOR FIRE RATING. PROVIDE FIRE DAMPERS AND SEAL ALL PENETRATIONS WITH FIRE CAULK AS REQUIRED AT RATED PARTITIONS AND BARRIERS. EXTEND ALL CORRIDOR WALLS TO BOTTOM OF STRUCTURE ABOVE AS REQUIRED.

FLOOR

WET WALL W/ SOUND ATTENUATION FILL AS

FLOOR



KEY PLAN SCALE: N.T.S.

ARCHITECTS

HIG ELEMENTARY ADD SUMTER (13878 US HIGHWAY SUMTER COUNTY E

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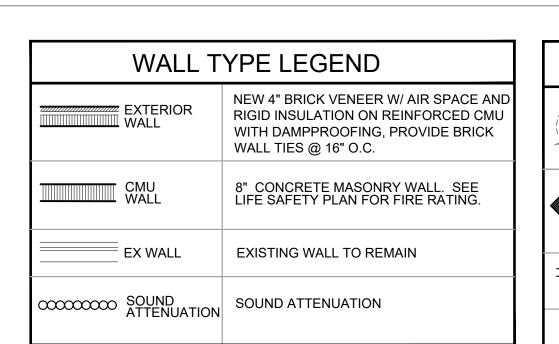
No. 3365 RICK N. LATHAN

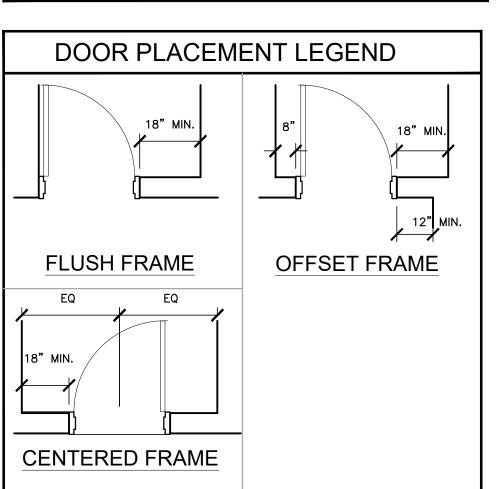
SHEET TITLE: PARTIAL FLOOR PLAN -

PROJ. MGR.: R. VERNON DRAWN: JWW DATE: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO: A2.1

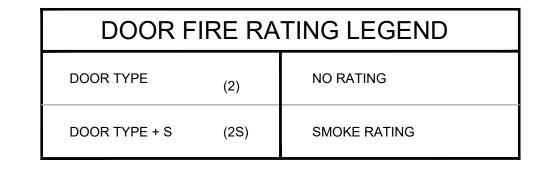
2 OF 27



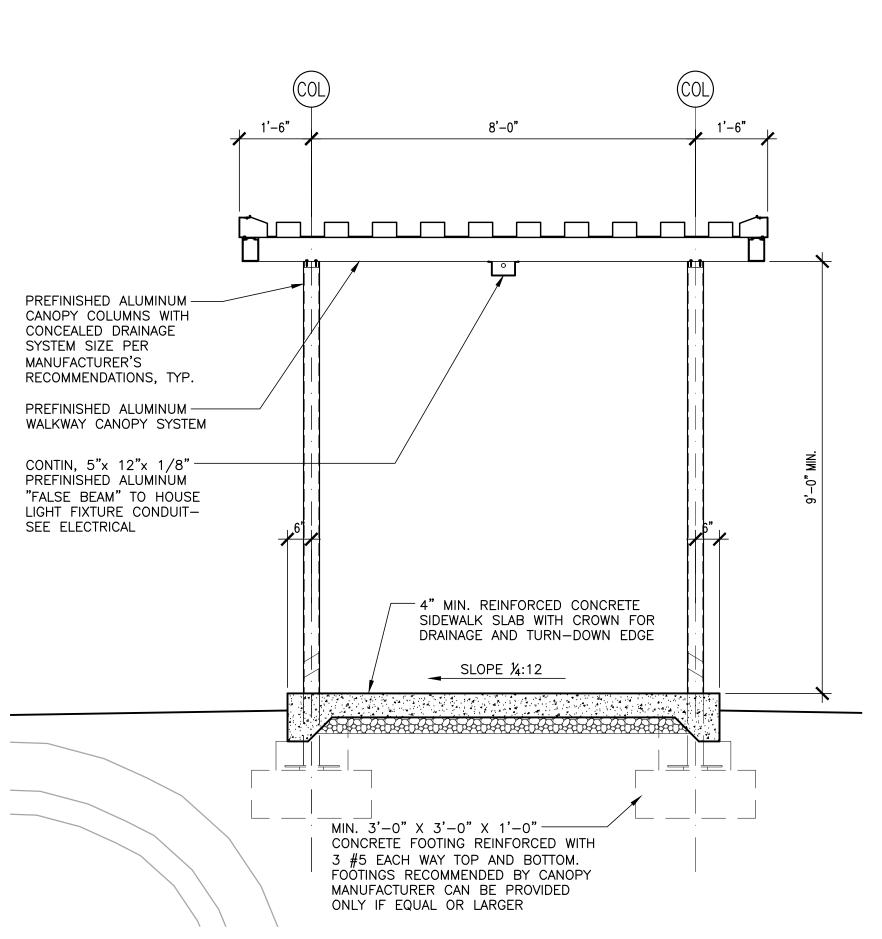


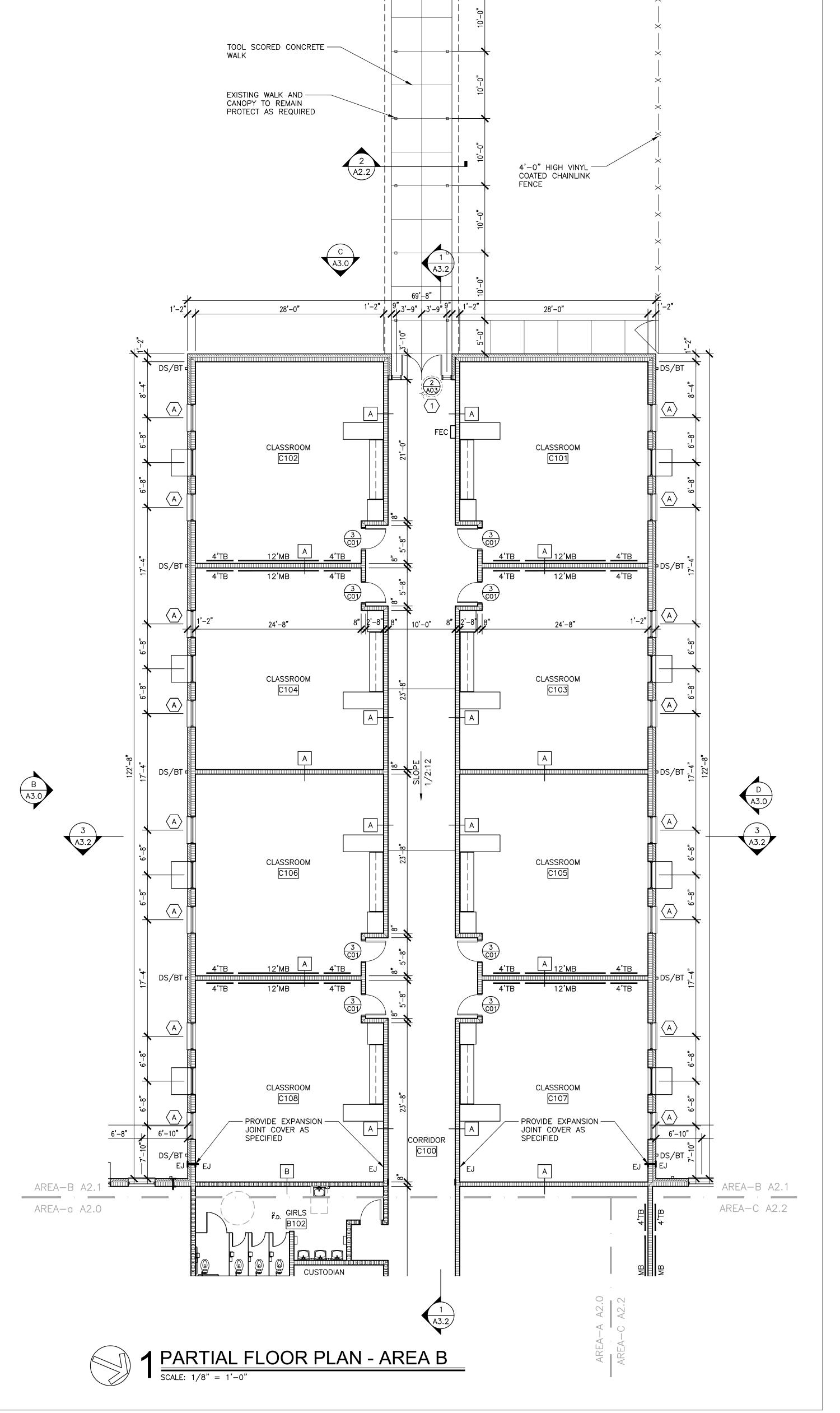
BRICK VENEER W/ AIR SPACE AND SULATION ON REINFORCED CMU AMPPROOFING, PROVIDE BRICK ES @ 16" O.C.	DOOR TYPE DOOR RATING HARDWARE SYMBOL ACCESS CONTROL	DOOR TYPE DOOR RATING A HARDWARE SYMBOL
CRETE MASONRY WALL. SEE FETY PLAN FOR FIRE RATING.	A—ELEV. MARK A1.1—SHEET NUMBER	SECT. MARK A1.1 SHEET NUMBER
IG WALL TO REMAIN	NEW DOOR AND SWING	5——ELEV. MARK
ATTENUATION	EWC ELECTRIC WATER COOLER	A5.1 SHEET NUMBER INT. ELEVATION
NT LEGEND	TB TACK BOARD	WALL PARTITION TYPE - ASSUME TYPE 'A' UNLESS NOTED OTHERWISE
8" 18" MIN.	MB MARKER BOARD	A EXTERIOR WINDOW
	FEC RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	1 STOREFRONT
12" MIN.	A200 ROOM NUMBER	INTERIOR WINDOW
OFFSET FRAME	EJ EXPANSION JOINT	FV FIELD VERIFY
	FE SURFACE MOUNT FIRE EXTINGUISHER	AREA OF CONCRETE
	DS DOWNSPOUT	F.D. FLOOR DRAIN
	SB SPLASHBLOCK	CJ CONTROL JOINT
	ВТ воот	

SYMBOLS LEGEND



EXTEND & KEY ALL WALLS TO BOTTOM OF TRUSS BEARING. SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS. COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS ALL PLAN DIMENSIONS ARE TO FACE OF CMU AND TO OUTSIDE OF BRICK UNLESS NOTED OTHERWISE WINDOWS ARE DIMENSIONED TO THE CENTER LINE SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING DOWNSPOUTS SHALL BE PROVIDED WITH BOOTS AND 4" DIAMETER LEADER PIPING EXTENDED AND TIED INTO STORM DRAINAGE SYSTEM WHERE INDICATED SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.

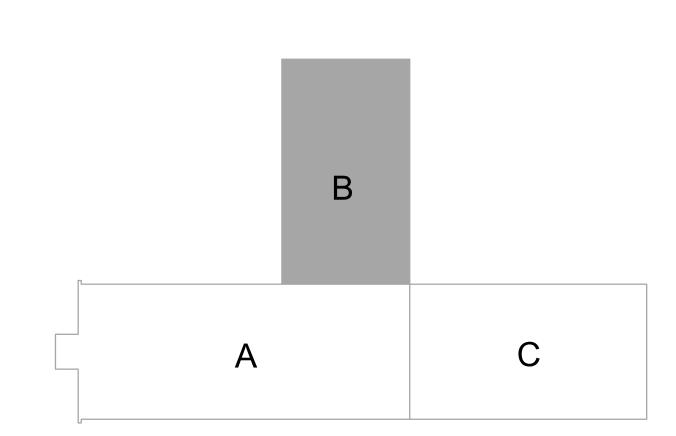




- EXISTING WALK AND CANOPY TO REMAIN

PROTECT AS REQUIRED

__X ___X __





2 CONNECTOR CANOPY SECTION

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

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCI
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 3365 RICK N. LATHAN

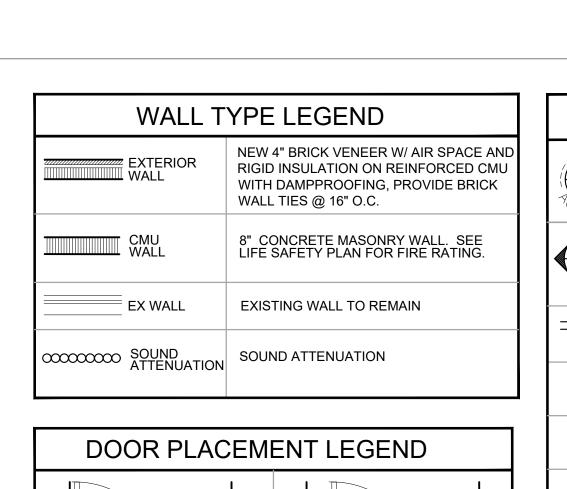
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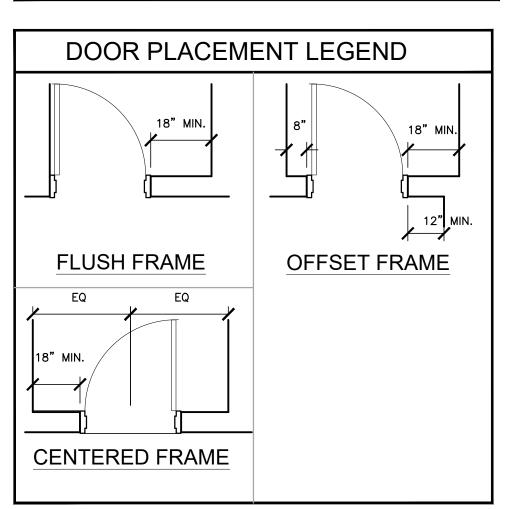
PARTIAL FLOOR PLAN AREA B

PROJ. MGR.: R. VERNON
DRAWN: JWW
hdr
DATE: 6/24/2024
REVISIONS

JOB NO. **24-38**SHEET NO:

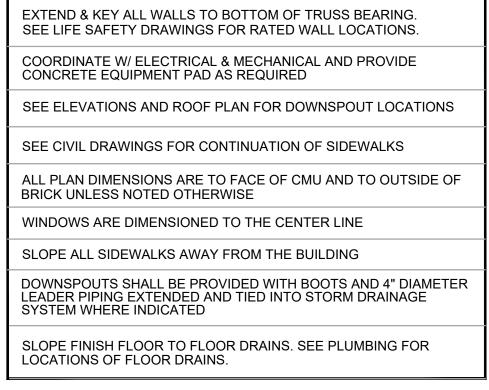
A2.2
3 OF 27

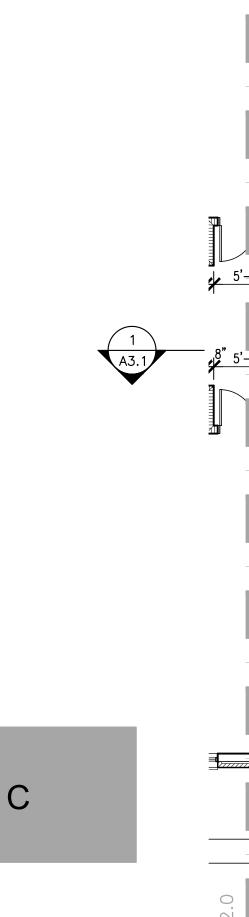




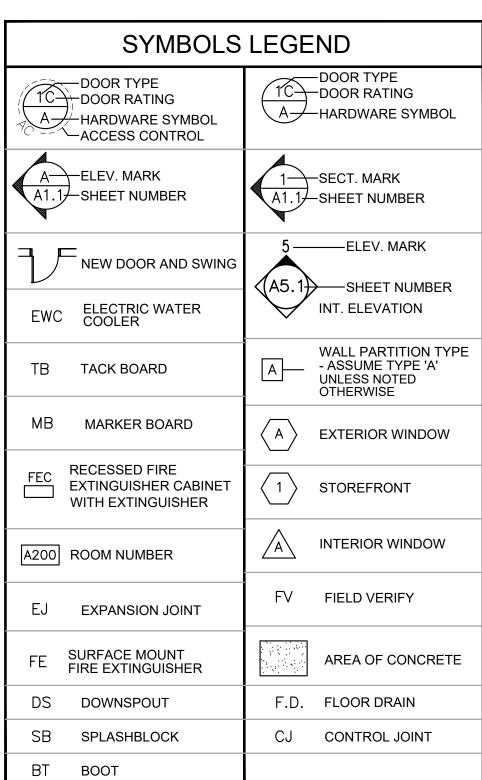
DOOR F	IRE RA	TING LEGEND
DOOR TYPE	(2)	NO RATING
DOOR TYPE + S	(2S)	SMOKE RATING

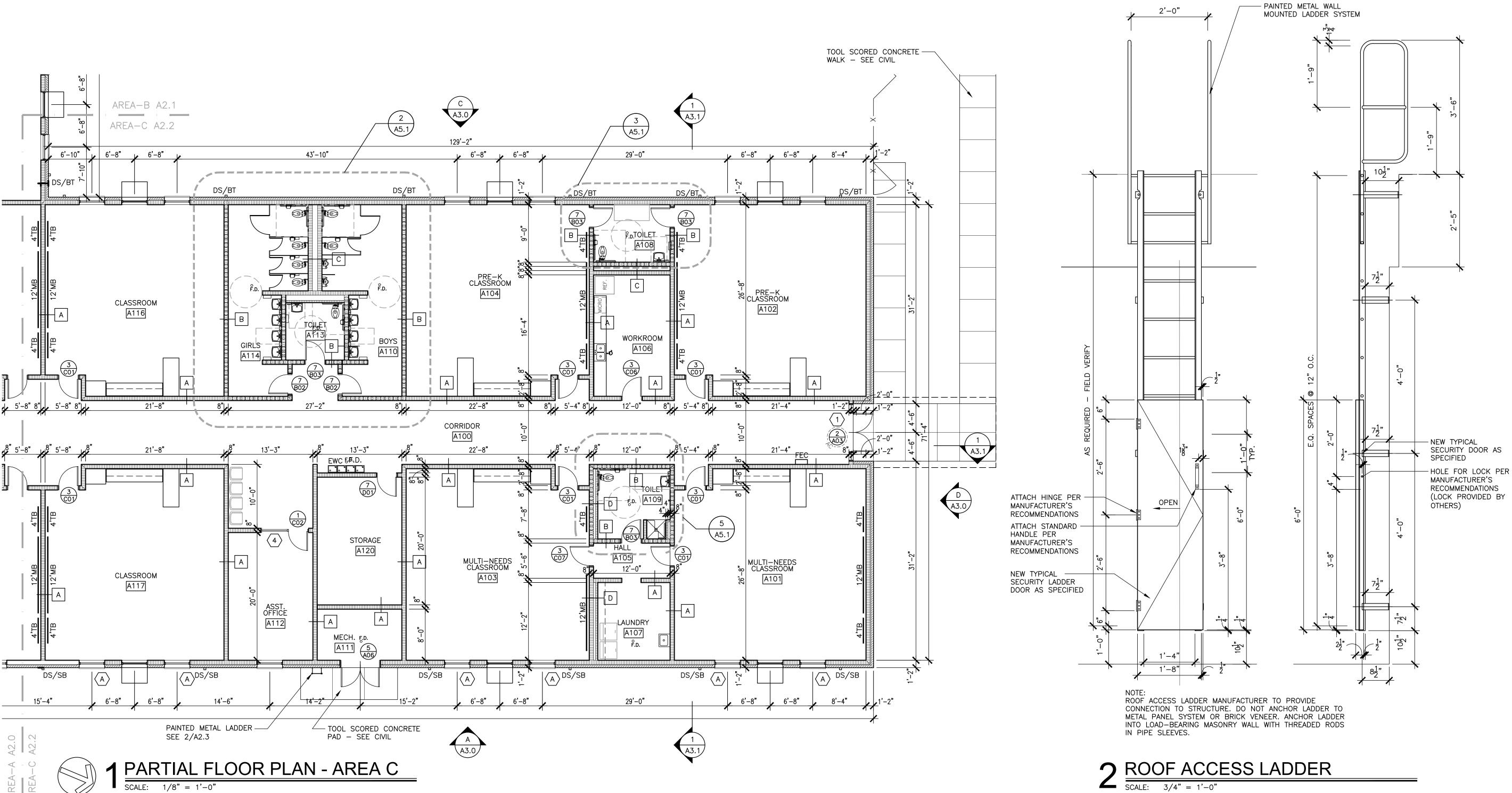
GENERAL NOTES
EXTEND & KEY ALL WALLS TO BOTTOM OF TRUSS BEARING. SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.
COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED
SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS
SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS
ALL PLAN DIMENSIONS ARE TO FACE OF CMU AND TO OUTSIDE OF BRICK UNLESS NOTED OTHERWISE
WINDOWS ARE DIMENSIONED TO THE CENTER LINE
SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING
DOWNSPOUTS SHALL BE PROVIDED WITH BOOTS AND 4" DIAMETER LEADER PIPING EXTENDED AND TIED INTO STORM DRAINAGE SYSTEM WHERE INDICATED
SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR



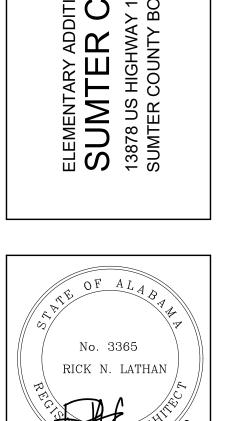












SHEET TITLE:

PARTIAL FLOOR PLAN -AREA C

PROJ. MGR.: R. VERNON

JOB NO. **24-38**

A2.3

4 OF 27

SHEET NO:

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

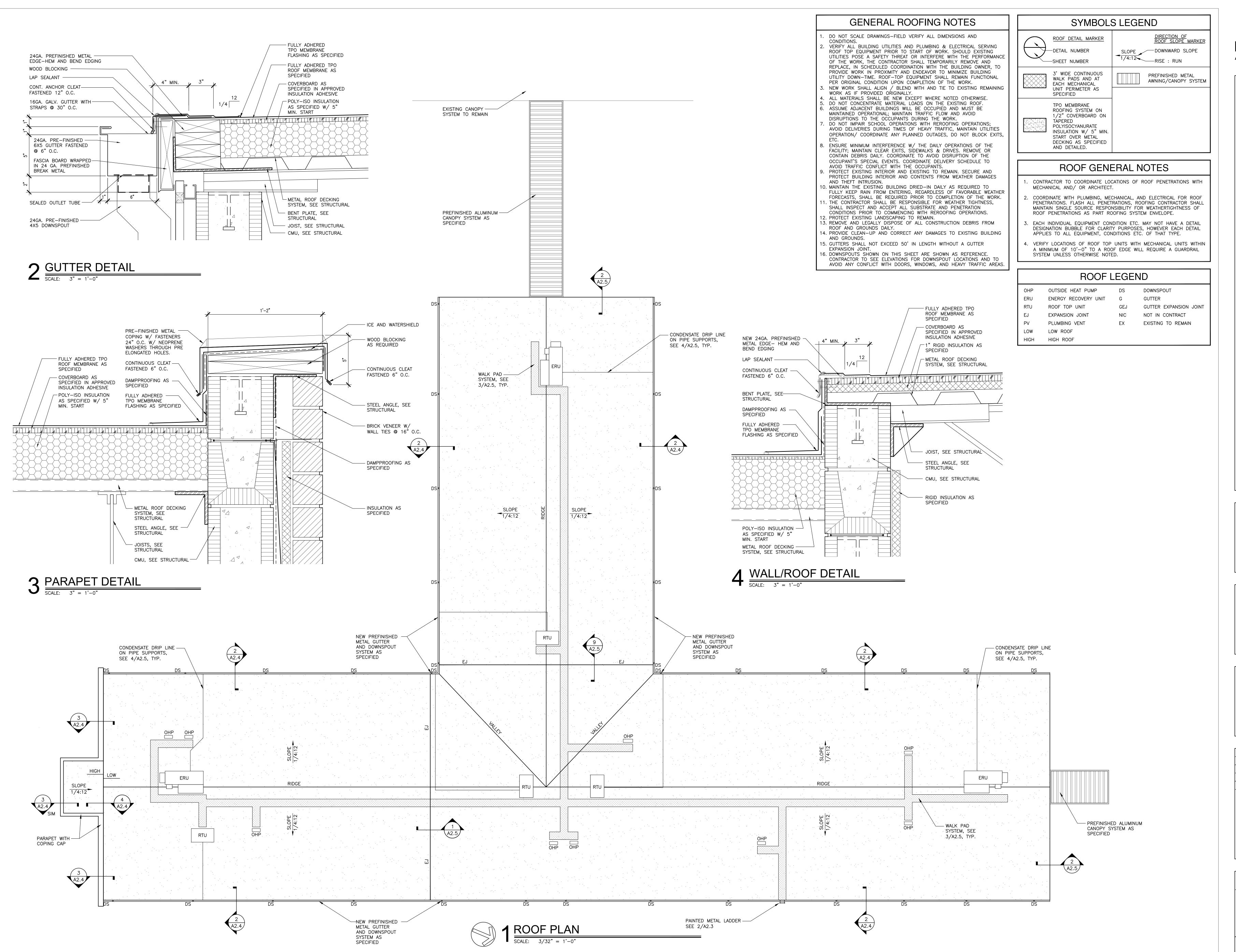
DRAWN: JWW

REVISIONS

DATE: 6/24/2024

SCHO

HIGH





No. 3365 RICK N. LATHAN

ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF

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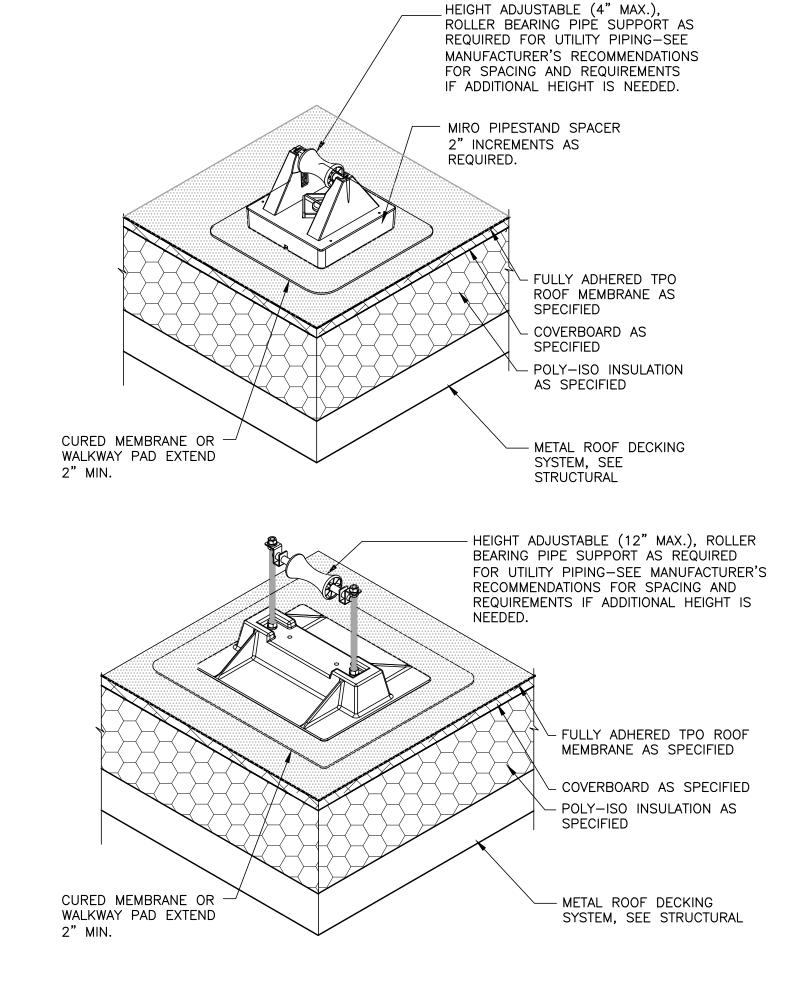
SHEET TITLE: ROOF PLAN

PROJ. MGR.: R. VERNON DRAWN: JWW DATE: 6/24/2024 REVISIONS

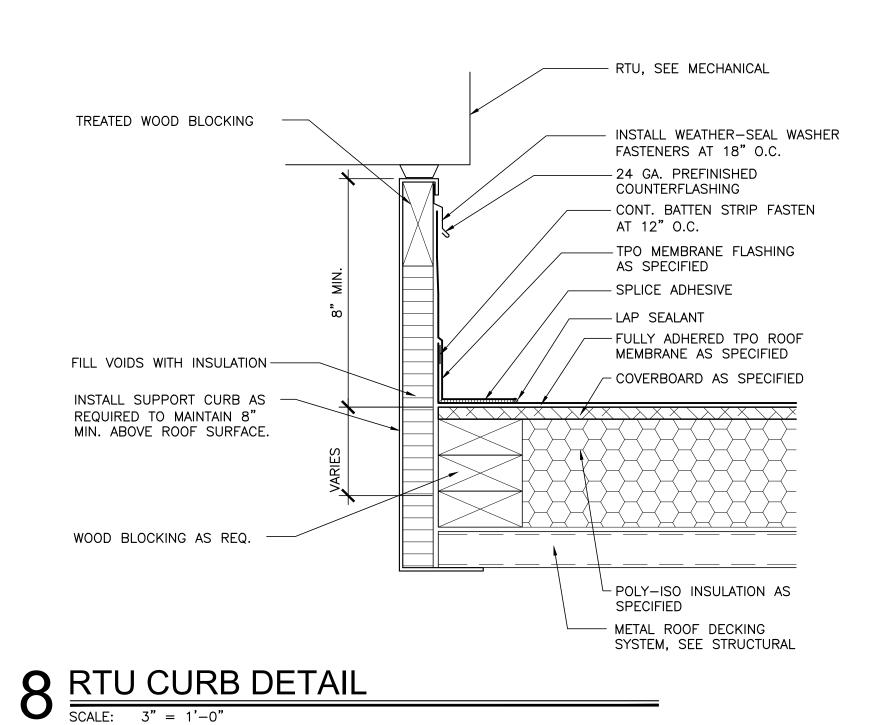
JOB NO. **24-38** SHEET NO:

> A2.4 5 OF 27

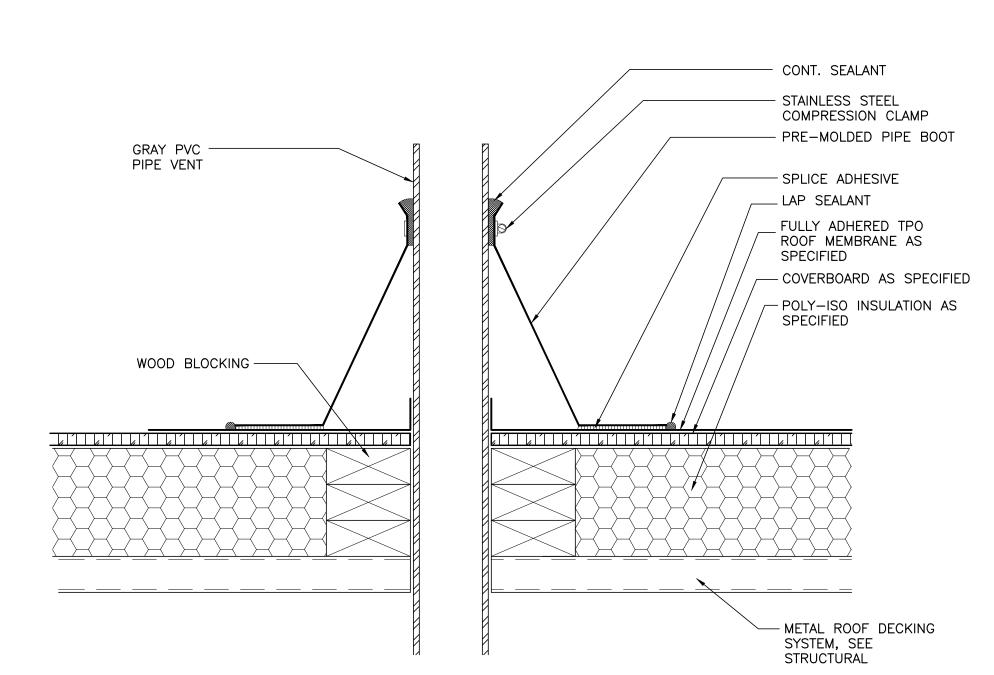
1 EXPANSION JOINT DETAIL SCALE: 3" = 1'-0"



4 PIPE SUPPORT DETAIL SCALE: 3" = 1'-0"

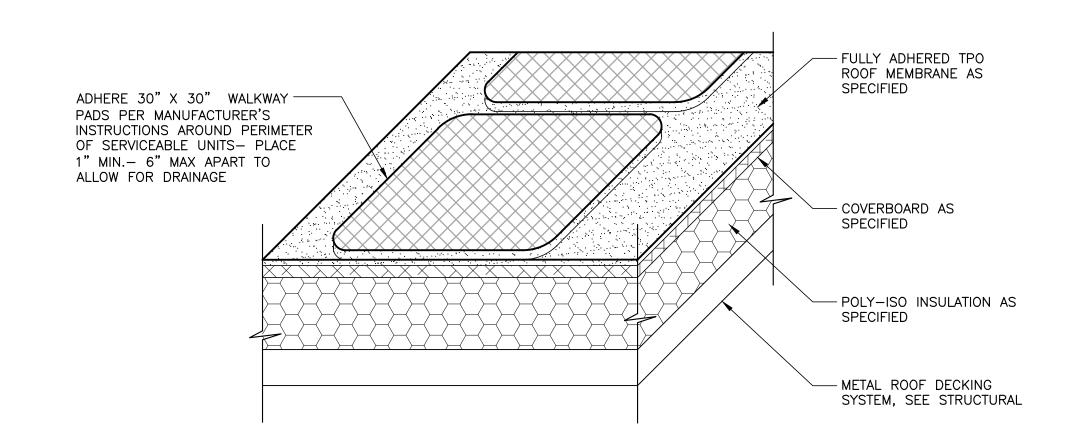


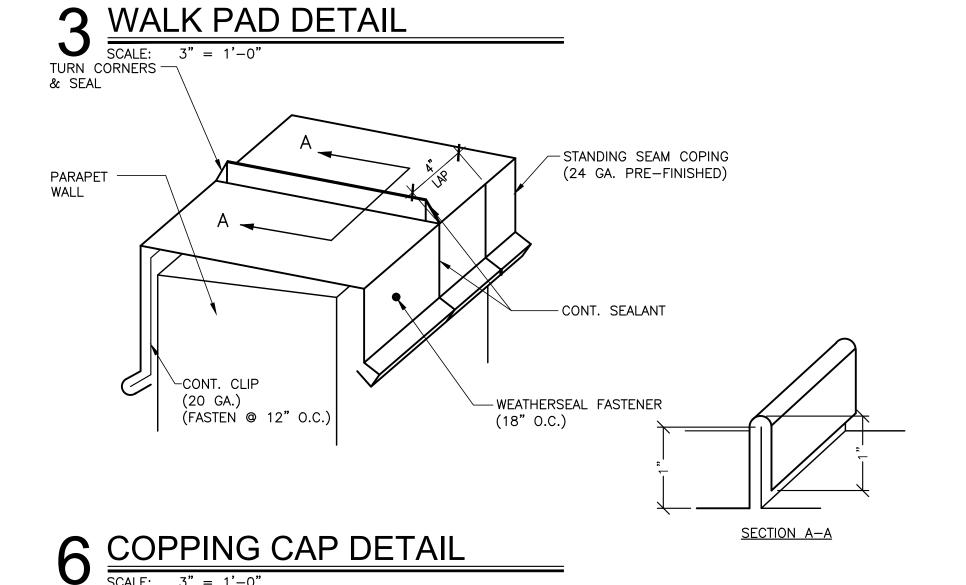
- FULLY ADHERED TPO MEMBRANE FLASHING AS SPECIFIED NEW 24GA. PREFINISHED — — FULLY ADHERED TPO METAL EDGE- HEM AND ROOF MEMBRANE AS BEND EDGING SPECIFIED 4" MIN. — COVERBOARD AS WOOD BLOCKING -SPECIFIED IN APPROVED INSULATION ADHESIVE LAP SEALANT ----- POLY-ISO INSULATION AS SPECIFIED W/ 5" MIN. START CONT. ANCHOR CLEAT-FASTENED 12" O.C. FASCIA BOARD WRAPPED-IN 24 GA. PREFINISHED BREAK METAL STEEL ANGLE, SEE-STRUCTURAL - METAL ROOF DECKING SYSTEM, SEE STRUCTURAL — CMU, SEE STRUCTURAL PREFINISHED METAL WALL-PANEL AS SPECIFIED **?** RAKE DETAIL



5 PIPE FLASHING DETAIL

SCALE: 3" = 1'-0"





NOTE: THE INTENT OF THIS DETAIL IS TO SHOW EXPANSION JOINT ASSEMBLY ONLY; GUTTER STYLES MAY DIFFER.

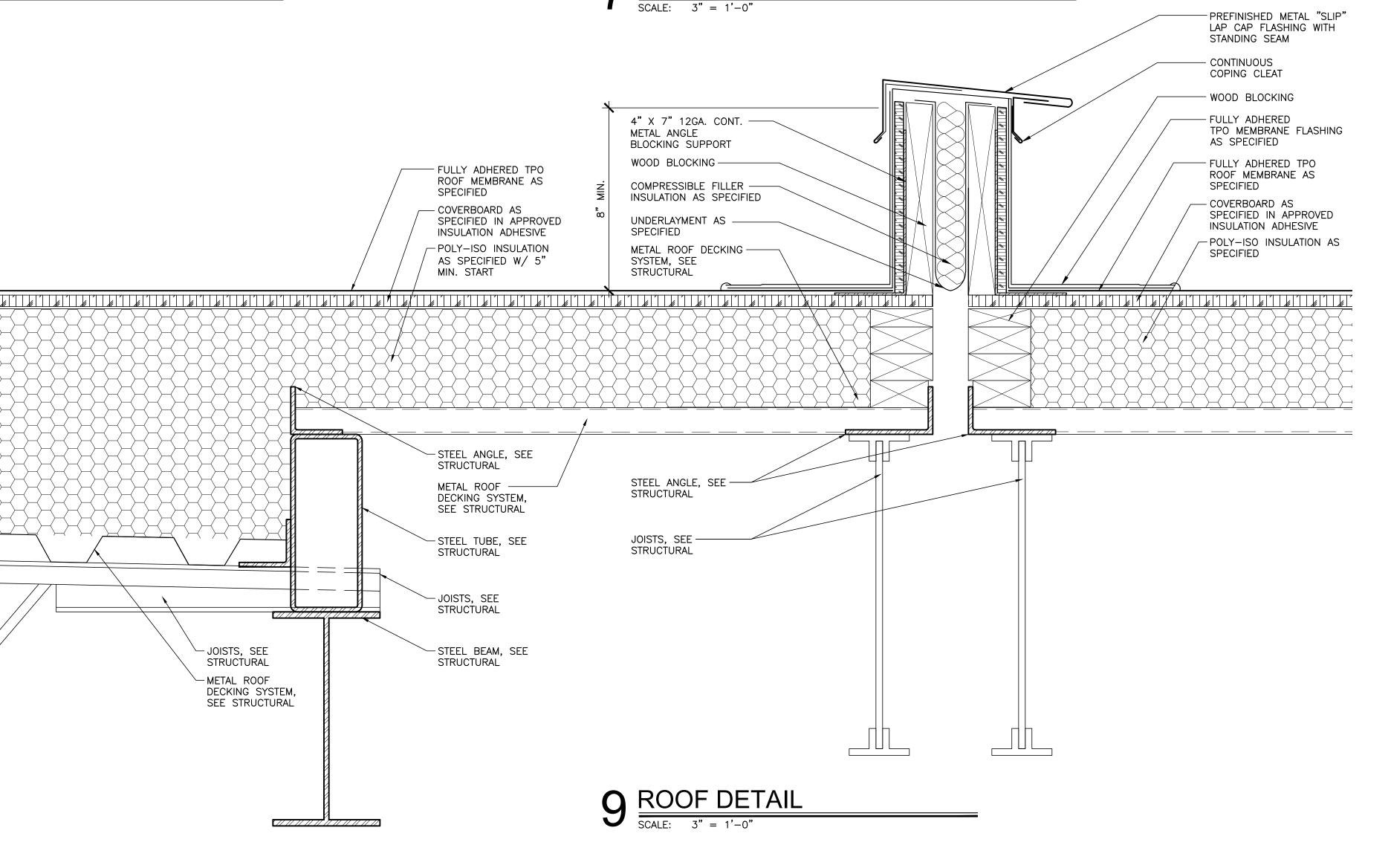
FRONT 1" LOWER THAN BACK (MIN.)

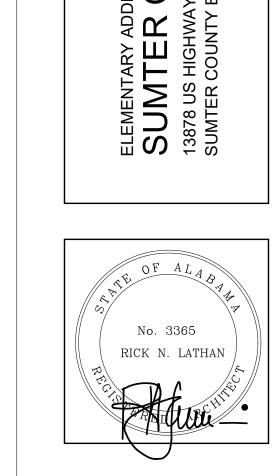
COVER PLATE

ENDS OF GUTTER

PROVIDE GEJ © 50'-0" OR AS SHOWN ON PLANS.

7 GUTTER EXPANSION JOINT DETAIL





HIGH

CENTO
VY 11, YOR

LATHAN

ARCHITECTS

SHEET TITLE:
ROOF DETAILS

PROJ. MGR.: R. VERNON
DRAWN: JWW

hdr

DATE: 6/24/2024

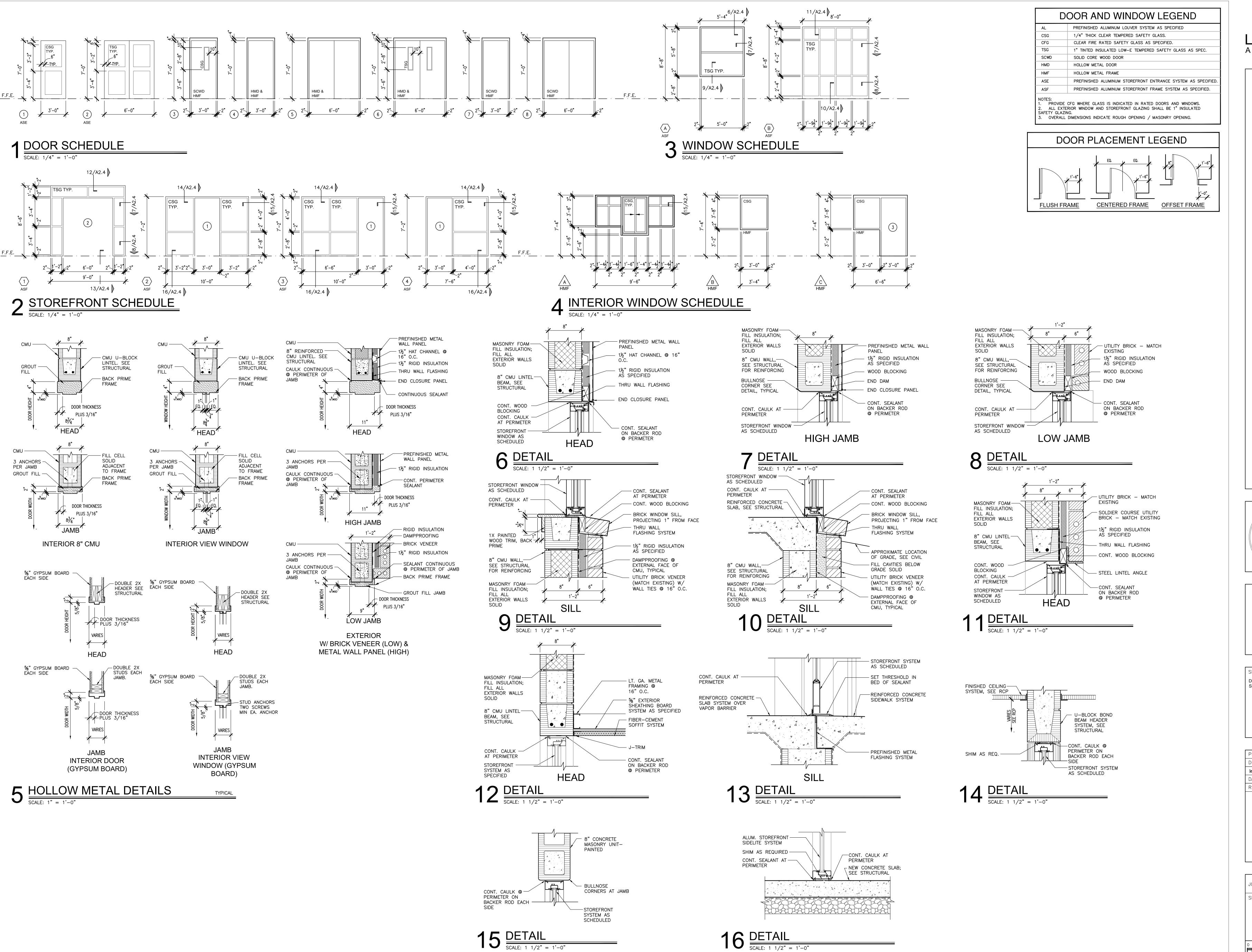
REVISIONS

JOB NO. 24-38

SHEET NO:

A2.5

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ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL

13878 US HIGHWAY 11, YORK, AL 36925

SUMTER COUNTY BOARD OF EDUCATION

No. 3365
RICK N. LATHAN

SHEET TITLE:

DOOR AND WINDOW SCHEDULES

PROJ. MGR.: R. VERNON
DRAWN: JWW

PROJ. MGR.: R. VERNON
DRAWN: JWW
hdr
DATE: 6/24/2024
REVISIONS

JOB NO. 24-38

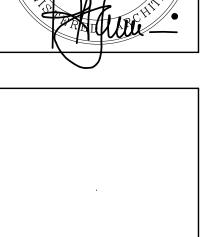
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A2.6

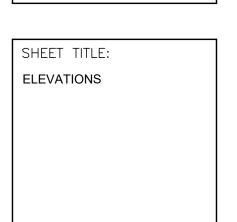
7 OF 27

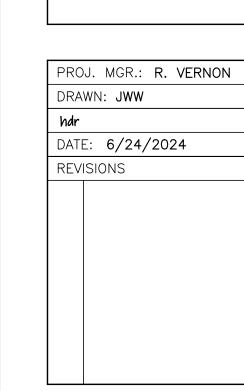


ITRAL HIGH SRK, AL 36925
OF EDUCATION ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF



No. 3365





JOB NO. **24-38** SHEET NO: A3.0



ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF

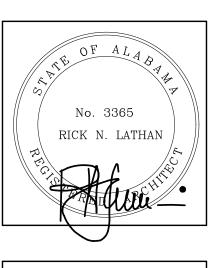
BUILDING SECTIONS

PROJ. MGR.: R. VERNON DRAWN: JWW DATE: 6/24/2024

ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOI

13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



.

SHEET TITLE:
WALL SECTIONS

PROJ. MGR.: R. VERNON
DRAWN: JWW
hdr
DATE: 6/24/2024
REVISIONS

JOB NO. 24-38

SHEET NO:

A3.2

10 OF 27



ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOC

13878 US HIGHWAY 11, YORK, AL 36925

SUMTER COUNTY BOARD OF EDUCATION

No. 3365

RICK N. LATHAN

SHEET TITLE:
WALL SECTIONS

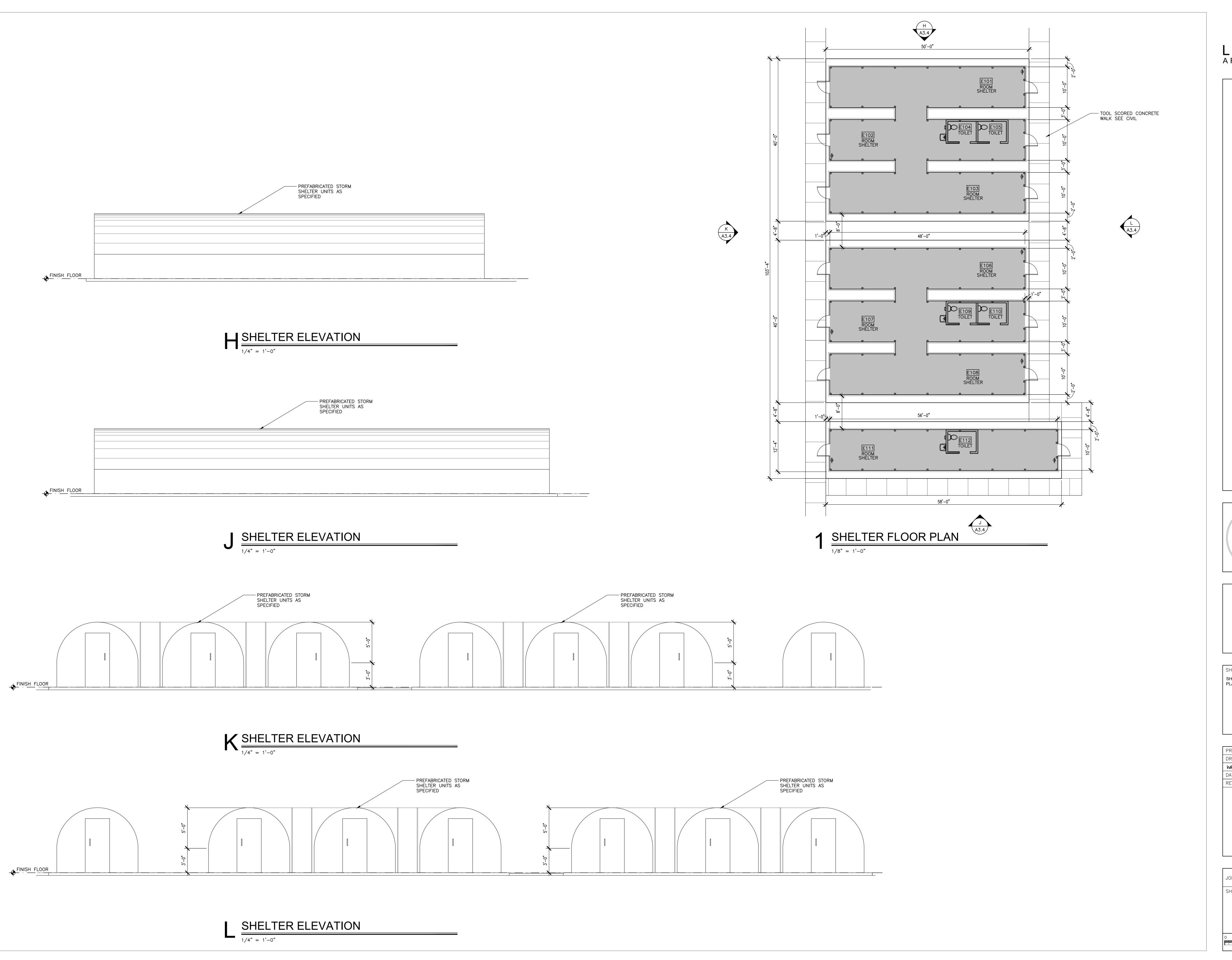
PROJ. MGR.: R. VERNON
DRAWN: JWW

hdr

DATE: 6/24/2024
REVISIONS

JOB NO. **24-38**SHEET NO:

A3.3
11 OF 27





ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL

13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 3365
RICK N. LATHAN

SHEET TITLE:
SHELTER ELEVATIONS AND PLANS

PROJ. MGR.: R. VERNON
DRAWN: JWW
hdr

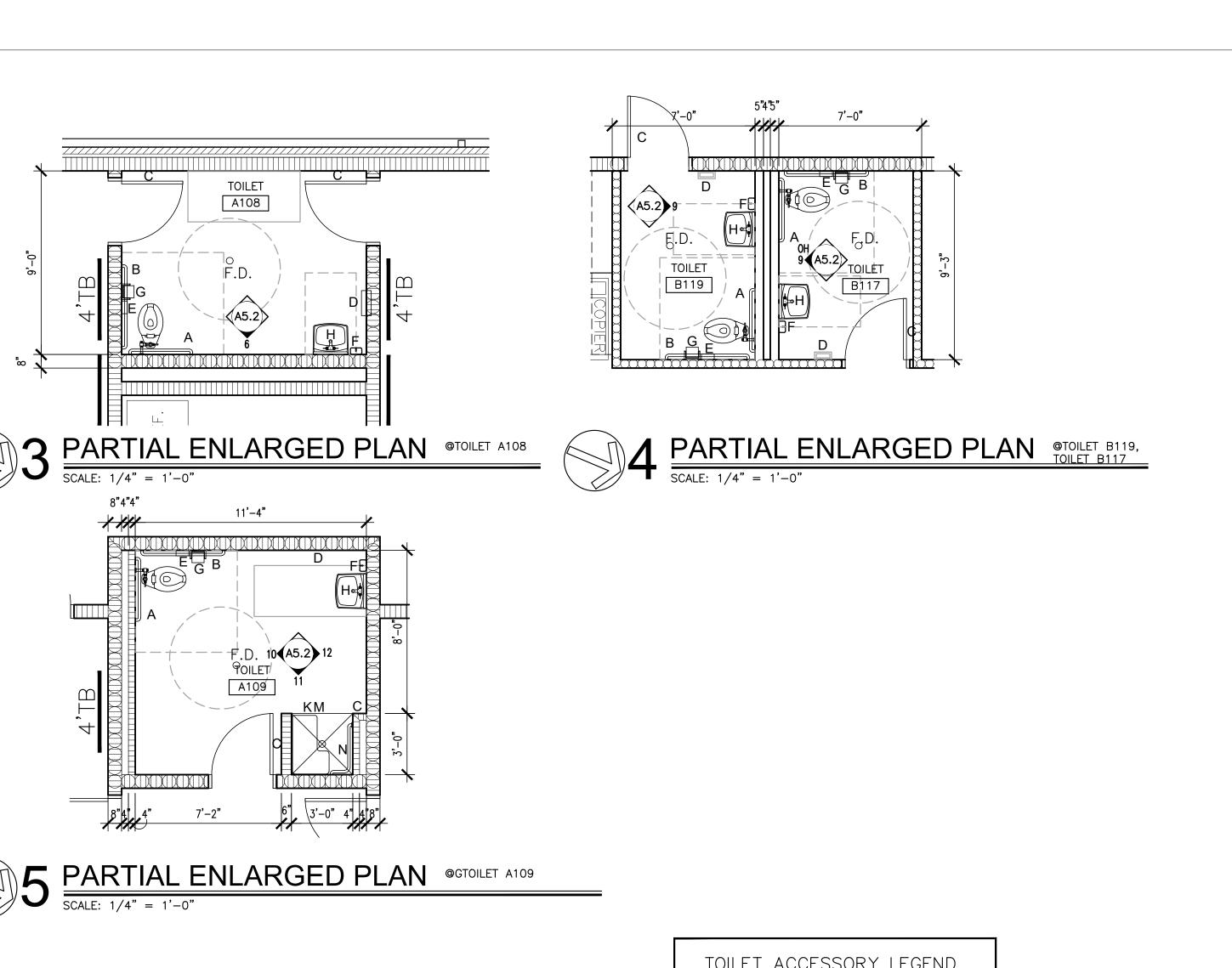
DATE: 6/24/2024
REVISIONS

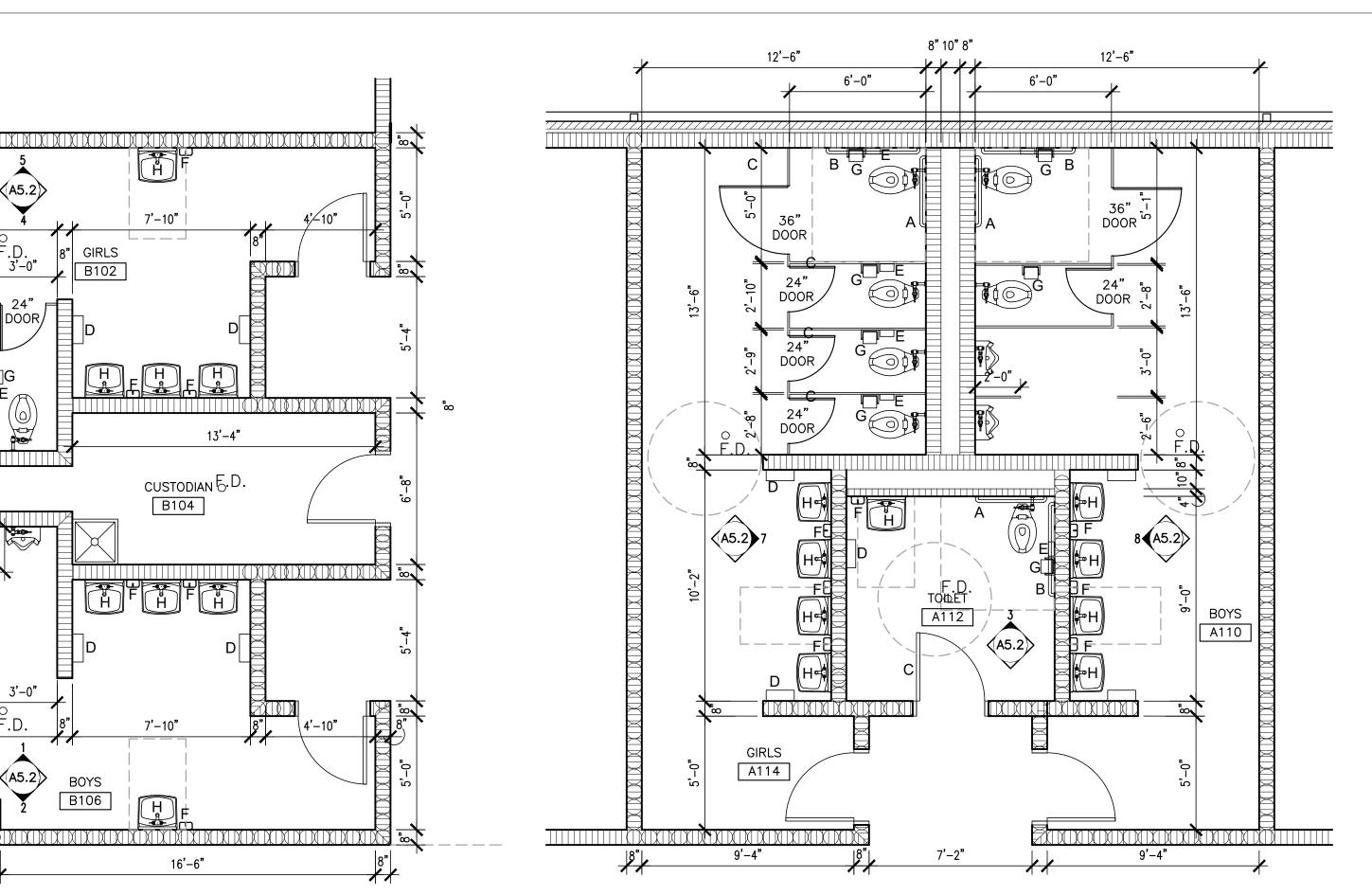
JOB NO. 24-38

SHEET NO:

A3.4

12 OF 27



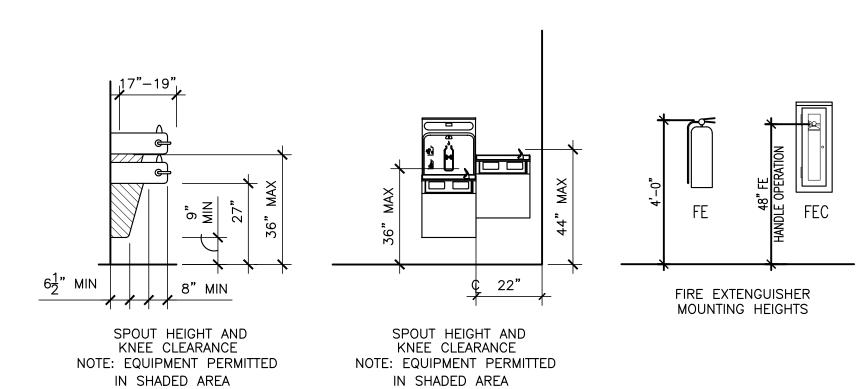




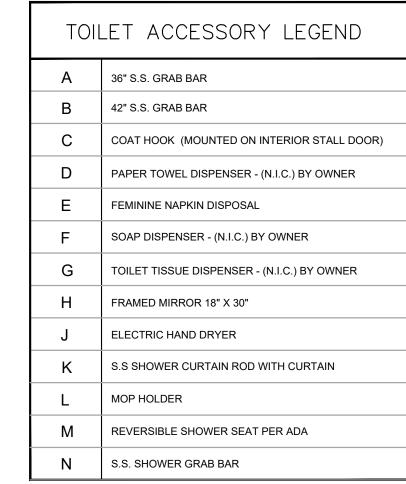
MIN.

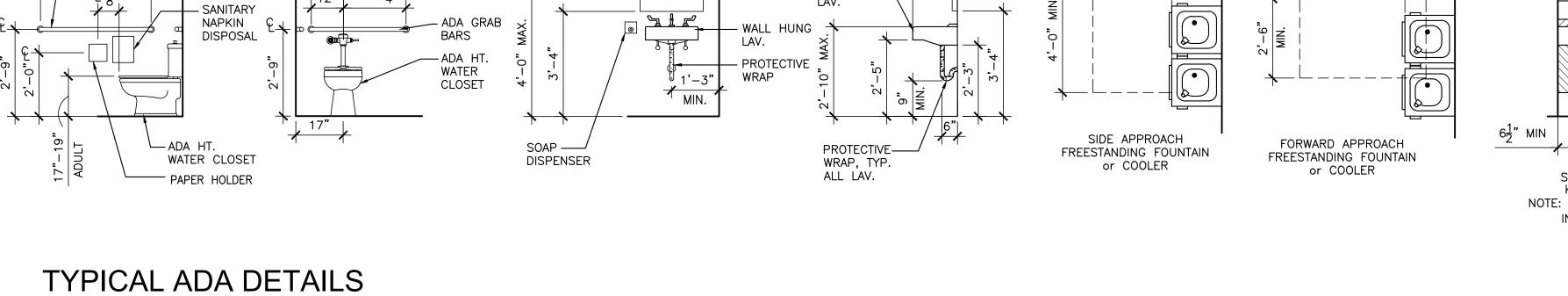
4'-0" MIN.

8" MAX. →



TOILET A108

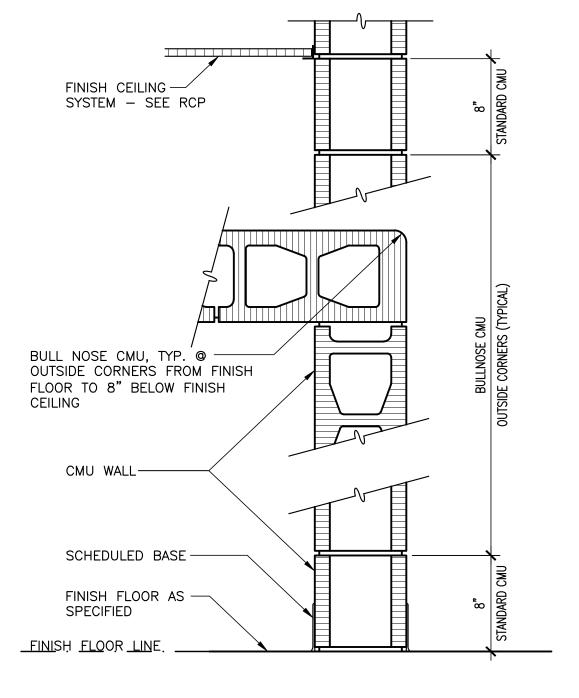


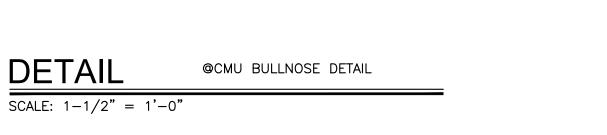


WALL -HUNG

LAV.

→ MIRROR





PARTIAL ENLARGED PLAN @BOYS B106, CUSTODIAN B104, GIRLS B102

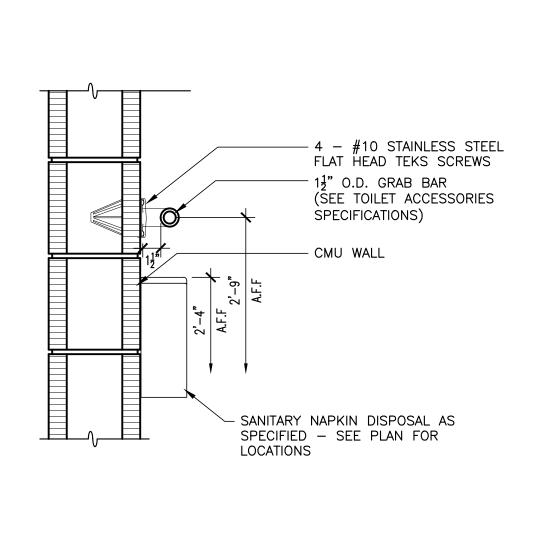
PAPER ----

TOWEL DISP.

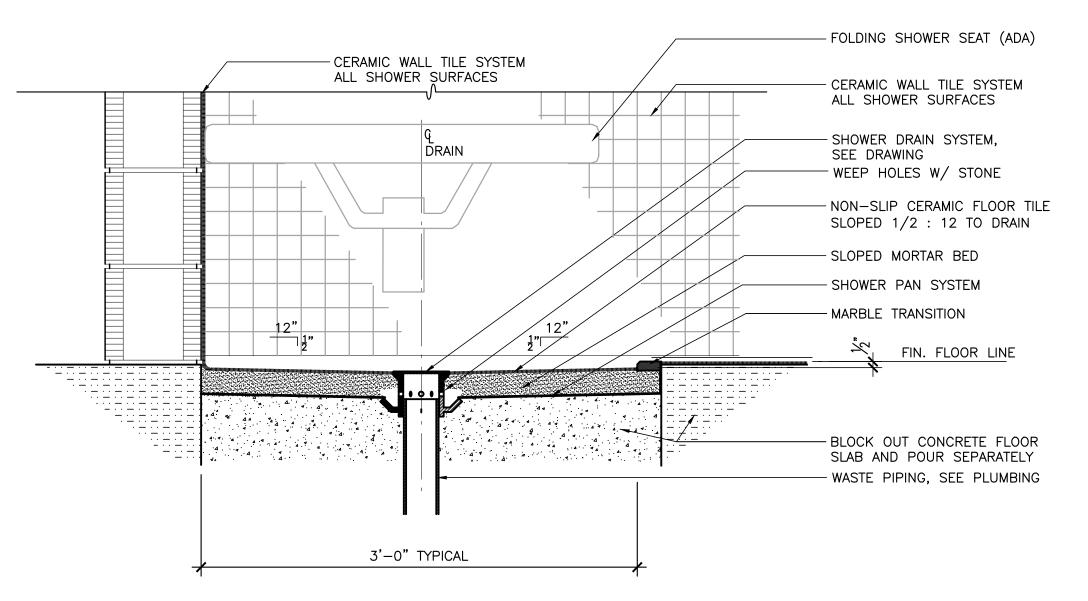
SCALE: 1/4" = 1'-0"

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

ADA GRAB BARS



7 DETAIL	@ADA	GRAB	BAR	DETAIL
SCALE: $1-1/2$ " = 1'-0"				



8	DETAIL	@ADA SHOWER DETAIL
O	SCALE: $1-1/2" = 1'-0"$	

No. 3365 RICK N. LATHAN

ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF

LATHAN ARCHITECTS

SHEET TITLE: **ENLARGED TOILET** PLANS AND ELEVATIONS

PROJ. MGR.: R. VERNON DRAWN: **BL** DATE: 6/24/2024 REVISIONS

> JOB NO. 24-38 A5.1

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 3365
RICK N. LATHAN

SHEET TITLE:

TOILET INTERIOR
ELEVATIONS

PROJ. MGR.: R. VERNON
DRAWN: BL

hdr

DATE: 6/24/2024

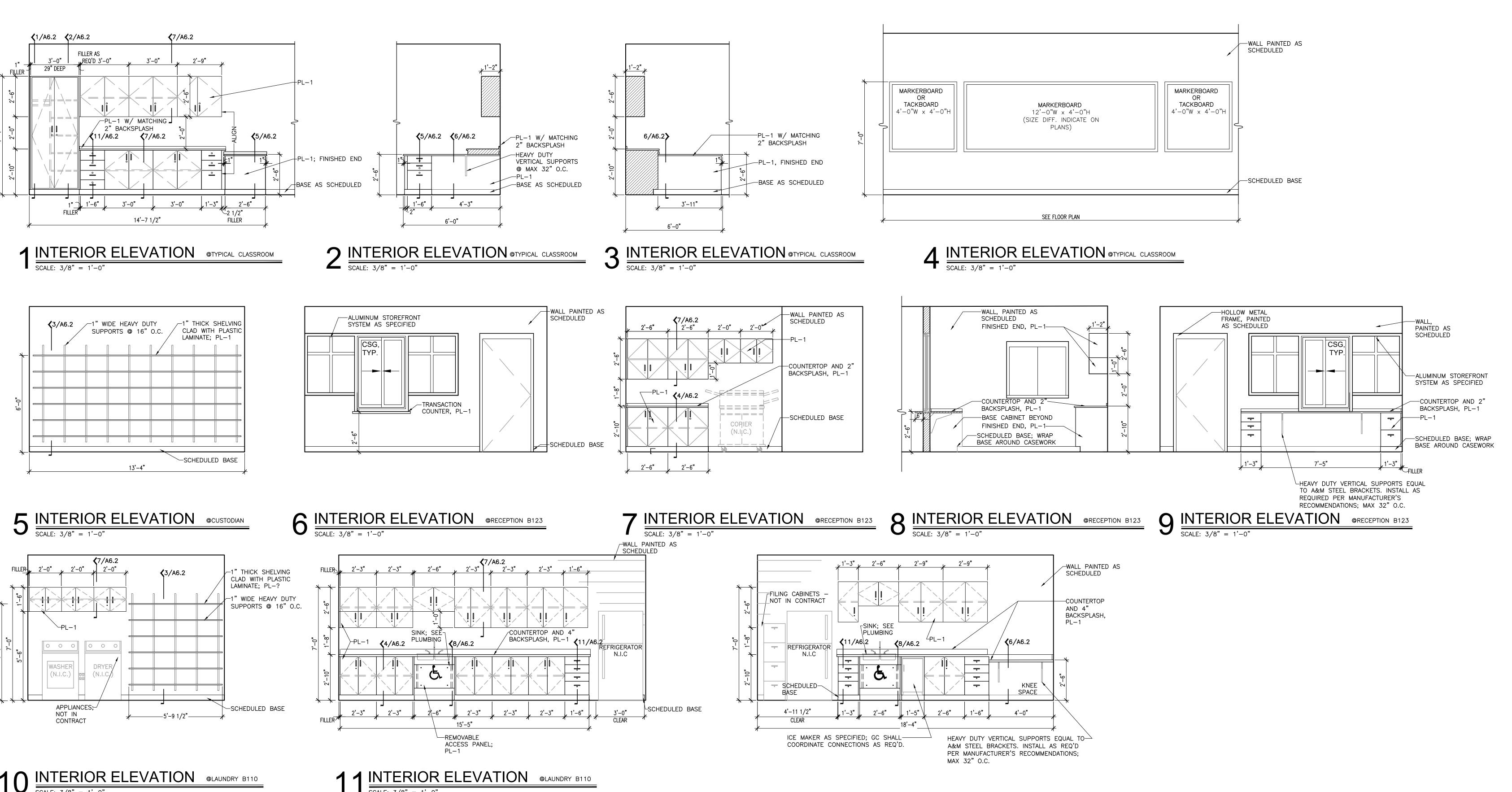
REVISIONS

JOB NO. 24-38

SHEET NO:

A5.2

14 OF 27





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

0 HIGH

ARCHITECTS

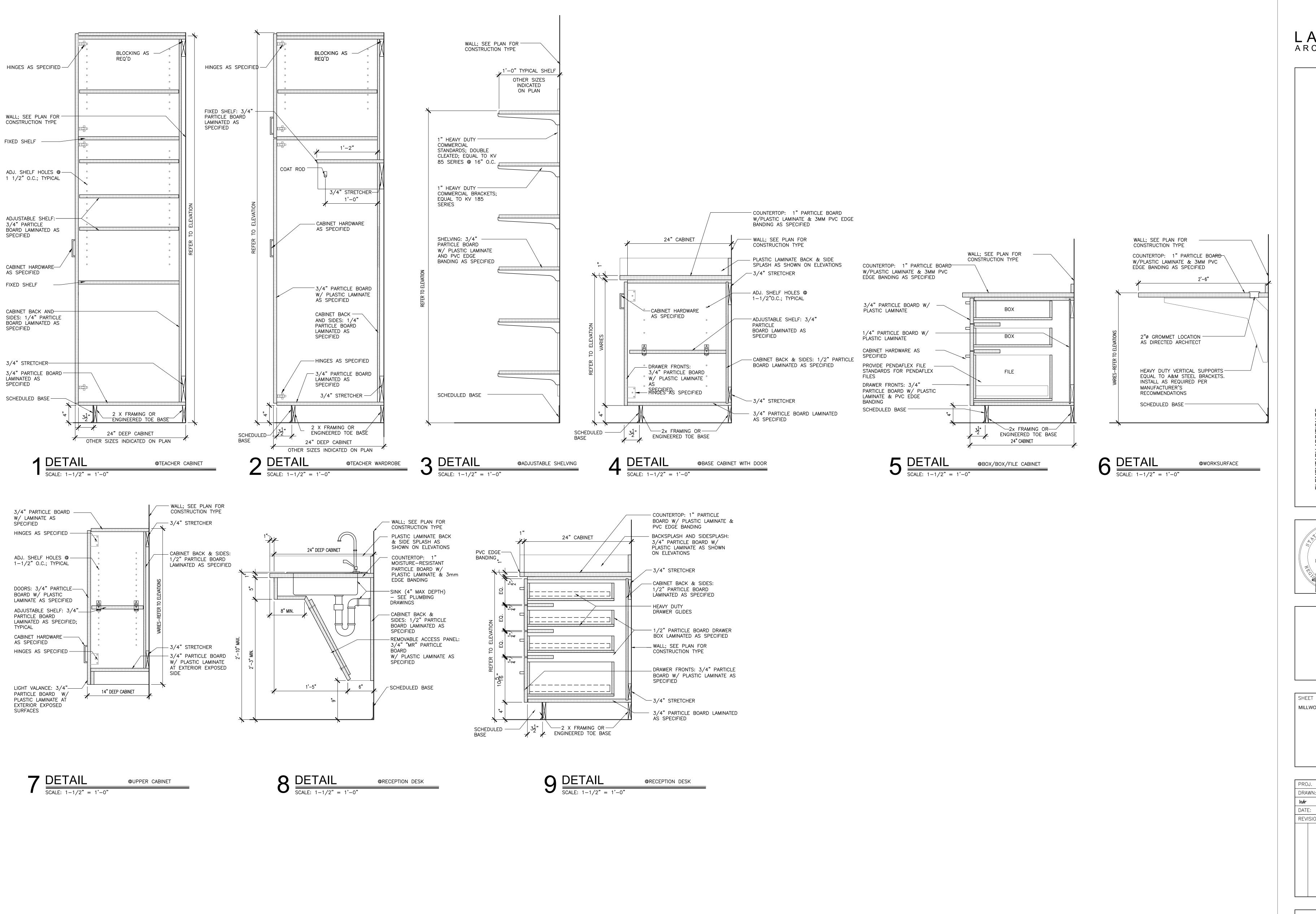
No. 3365 RICK N. LATHAN

SUMTER CENT 13878 US HIGHWAY 11, YORK SUMTER COUNTY BOARD OF

SHEET TITLE: INTERIOR ELEVATIONS

PROJ. MGR.: R. VERNON DRAWN: BL DATE: 6/24/2024 REVISIONS

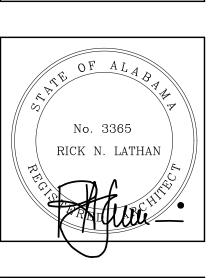
JOB NO. **24-38**





ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



SHEET TITLE:

MILLWORK DETAILS

PROJ. MGR.: R. VERNON

DRAWN: BL

hdr

DATE: 6/24/2024

REVISIONS

JOB NO. 24-38

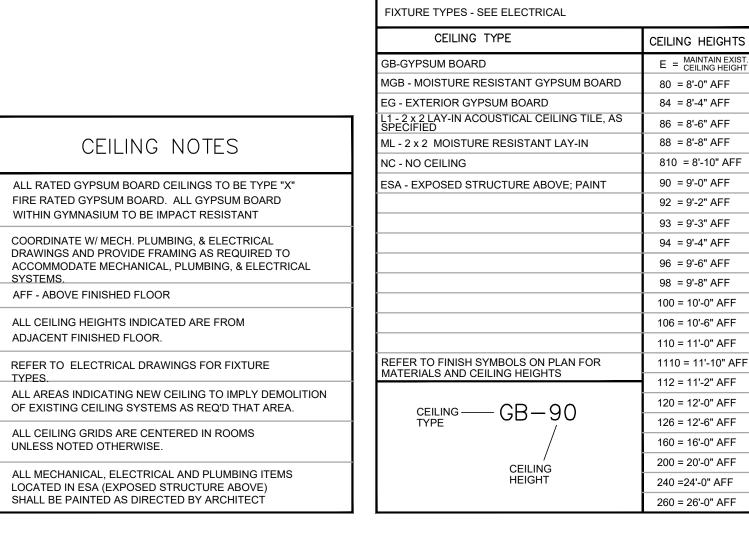
SHEET NO:

A6.2

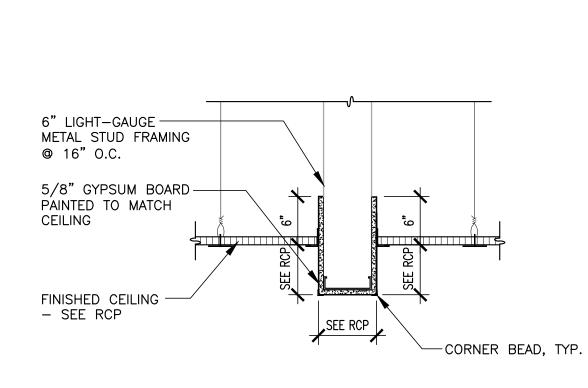
16 OF 27

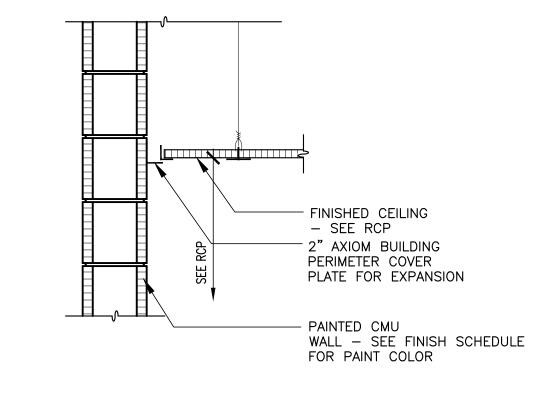


		CEILING TYPE	CEILING
		GB-GYPSUM BOARD	E = MA
		MGB - MOISTURE RESISTANT GYPSUM BOARD	80 = 8'
		EG - EXTERIOR GYPSUM BOARD	84 = 8'
		L1 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	86 = 8'
	CEILING NOTES	ML - 2 x 2 MOISTURE RESISTANT LAY-IN	88 = 8'
	CEIEITO TTOTES	NC - NO CEILING	810 =
1.	ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X"	ESA - EXPOSED STRUCTURE ABOVE; PAINT	90 = 9'
	FIRE RATED GYPSUM BOARD. ALL GYPSUM BOARD		92 = 9'
	WITHIN GYMNASIUM TO BE IMPACT RESISTANT		93 = 9'
2.			94 = 9'
	DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL, PLUMBING, & ELECTRICAL		96 = 9'
	SYSTEMS.		98 = 9'
3.	AFF - ABOVE FINISHED FLOOR		100 = 1
4.	ALL CEILING HEIGHTS INDICATED ARE FROM		106 = 1
	ADJACENT FINISHED FLOOR.		110 = 1
5.	REFER TO ELECTRICAL DRAWINGS FOR FIXTURE	REFER TO FINISH SYMBOLS ON PLAN FOR	1110 =
	TYPES.	MATERIALS AND CEILING HEIGHTS	112 = 1
6.	ALL AREAS INDICATING NEW CEILING TO IMPLY DEMOLITION OF EXISTING CEILING SYSTEMS AS REQ'D THAT AREA.		120 = 1
		CEILING — GB — 90	126 = 1
7.	ALL CEILING GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.		160 = 1
	GREESS ROTED OTHERWISE.	/ OF#ING	200 = 2
8.	ALL MECHANICAL, ELECTRICAL AND PLUMBING ITEMS LOCATED IN ESA (EXPOSED STRUCTURE ABOVE)	CEILING HEIGHT	240 =24
	CHALL BE DAINTED AS DIDECTED BY ADCHITECT		



CEILING LEGEND

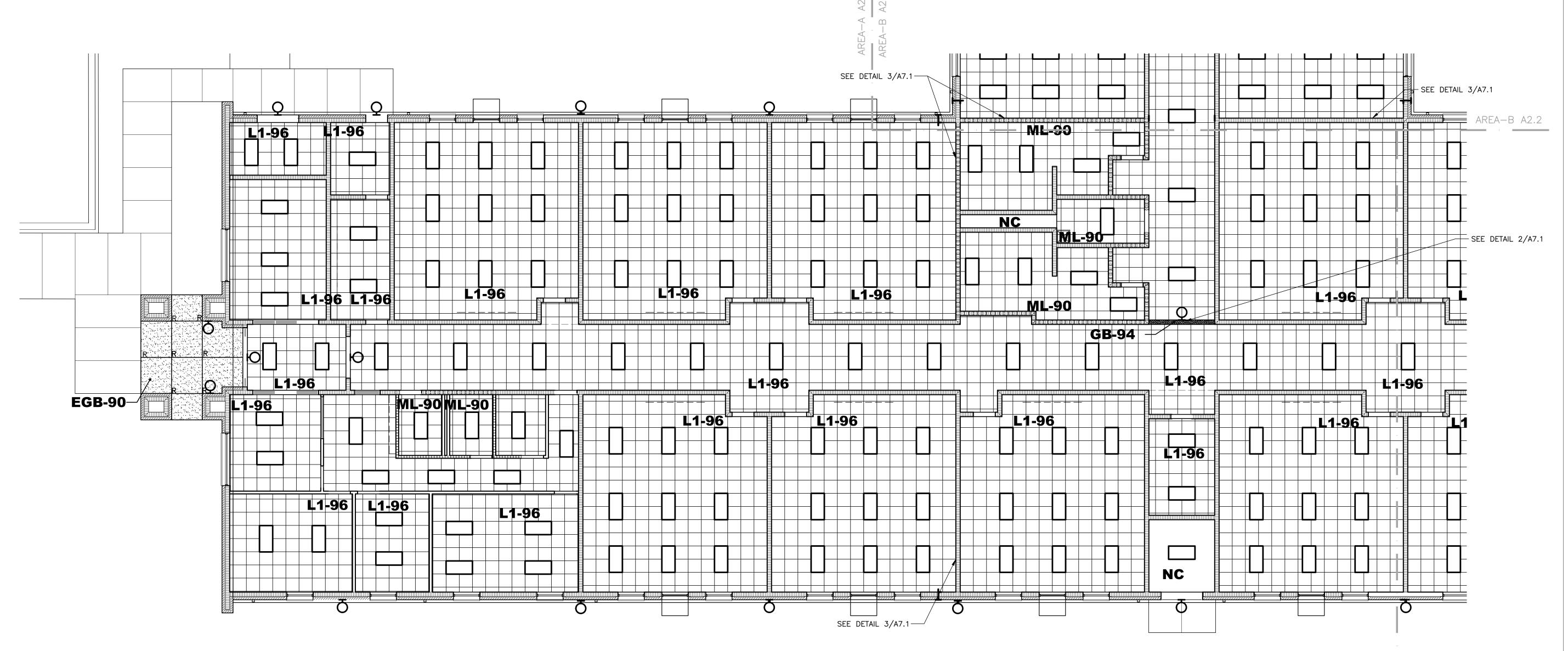




2 CEILING TRANSITION DETAIL

SCALE: 1" = 1'-0"

3 CEILING TRANSITION DETAIL @EXPANSION JOINT SCALE: 1" = 1'-0"



SHEET TITLE: PARTIAL REFLECTED CEILING PLAN - AREA A

ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF

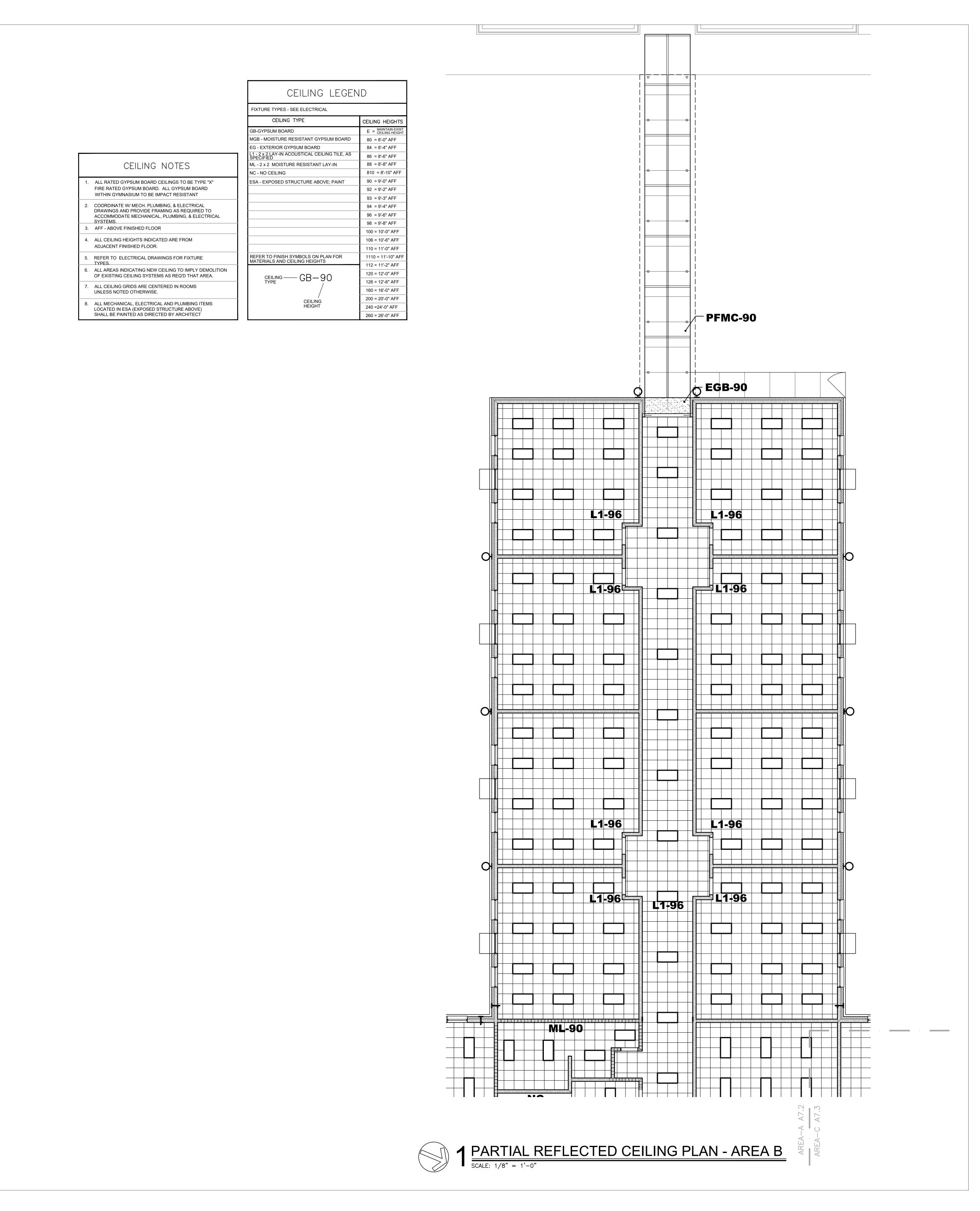
No. 3365 RICK N. LATHAN

PROJ. MGR.: R. VERNON DRAWN: BL DATE: 6/24/2024 REVISIONS

JOB NO. 24-38 SHEET NO: A7.1 17 OF 27

KEY PLAN SCALE: N.T.S.

1 PARTIAL REFLECTED CEILING PLAN AREA 'A' SCALE: 1/8" = 1'-0"



ARCHITECTS

ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF

No. 3365 RICK N. LATHAN

SHEET TITLE: PARTIAL REFLECTED

CEILING PLAN - AREA B

PROJ. MGR.: R. VERNON DRAWN: **BL**

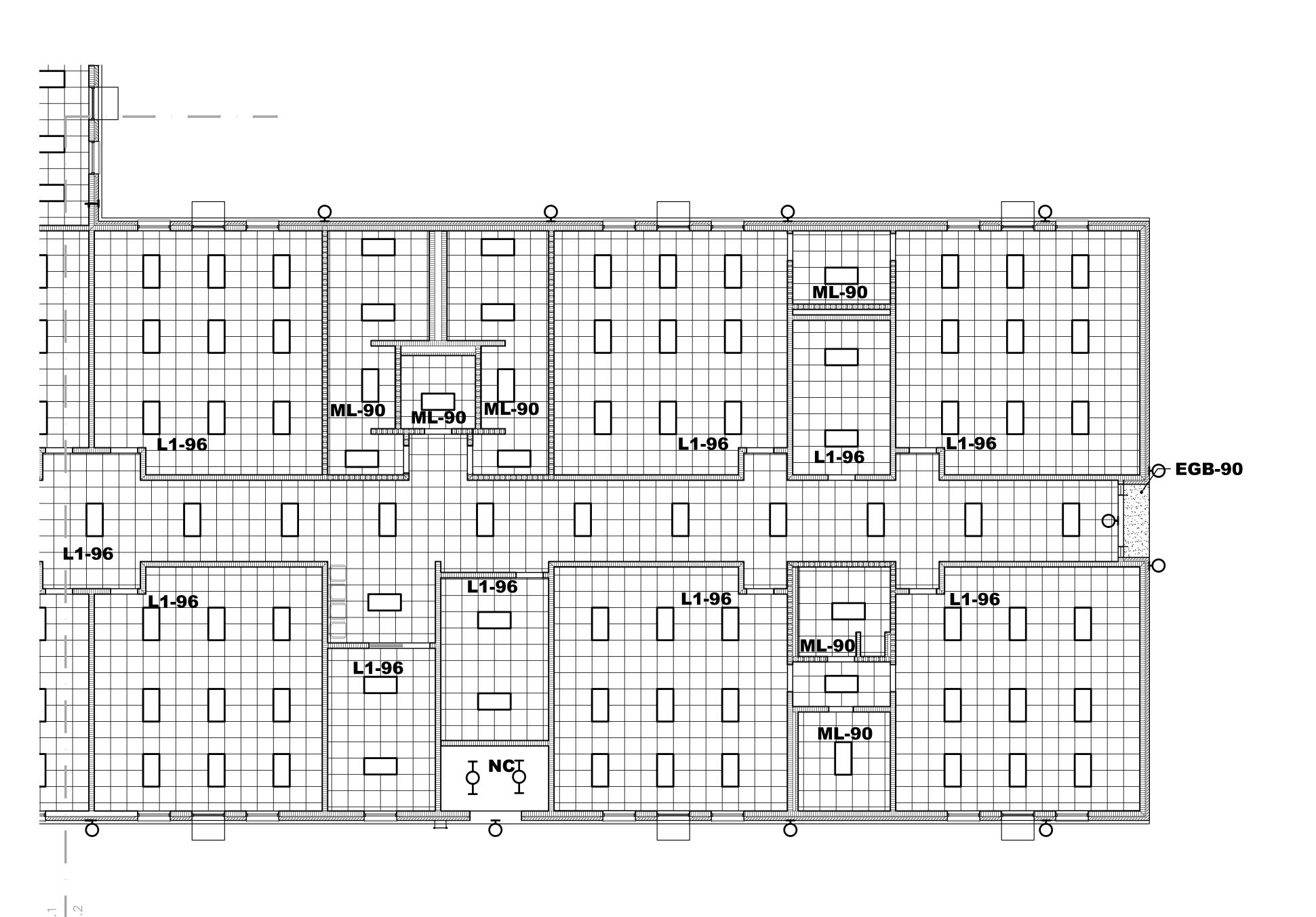
DATE: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO:

A7.2 18 OF 27

C

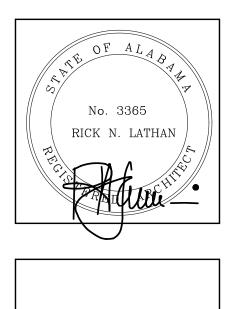
	FIXTURE TYPES - SEE ELECTRICAL			
	CEILING TYPE	CEILING HEIGH		
	GB-GYPSUM BOARD	E = MAINTAIN E CEILING HE		
	MGB - MOISTURE RESISTANT GYPSUM BOARD	80 = 8'-0" AFF		
	EG - EXTERIOR GYPSUM BOARD	84 = 8'-4" AFF		
	L1 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	86 = 8'-6" AFF		
CEILING NOTES	ML - 2 x 2 MOISTURE RESISTANT LAY-IN	88 = 8'-8" AFF		
OLILINO INOTES	NC - NO CEILING	810 = 8'-10" A		
LL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X"	ESA - EXPOSED STRUCTURE ABOVE; PAINT	90 = 9'-0" AFF		
RE RATED GYPSUM BOARD. ALL GYPSUM BOARD		92 = 9'-2" AFF		
/ITHIN GYMNASIUM TO BE IMPACT RESISTANT		93 = 9'-3" AFF		
OORDINATE W/ MECH. PLUMBING, & ELECTRICAL		94 = 9'-4" AFF		
RAWINGS AND PROVIDE FRAMING AS REQUIRED TO COMMODATE MECHANICAL, PLUMBING, & ELECTRICAL		96 = 9'-6" AFF		
YSTEMS.		98 = 9'-8" AFF		
FF - ABOVE FINISHED FLOOR		100 = 10'-0" AF		
LL CEILING HEIGHTS INDICATED ARE FROM		106 = 10'-6" AF		
DJACENT FINISHED FLOOR.		110 = 11'-0" AF		
EFER TO ELECTRICAL DRAWINGS FOR FIXTURE	REFER TO FINISH SYMBOLS ON PLAN FOR	1110 = 11'-10"		
/PES.	MATERIALS AND CEILING HEIGHTS	112 = 11'-2" AF		
LL AREAS INDICATING NEW CEILING TO IMPLY DEMOLITION F EXISTING CEILING SYSTEMS AS REQ'D THAT AREA.		120 = 12'-0" AF		
	CEILING — GB — 90	126 = 12'-6" AF		
LL CEILING GRIDS ARE CENTERED IN ROOMS NLESS NOTED OTHERWISE.		160 = 16'-0" AF		
	/ CEILING	200 = 20'-0" AF		
LL MECHANICAL, ELECTRICAL AND PLUMBING ITEMS DCATED IN ESA (EXPOSED STRUCTURE ABOVE)	HEIGHT	240 =24'-0" AF		
HALL BE PAINTED AS DIRECTED BY ARCHITECT		260 = 26'-0" AF		



KEY PLAN
SCALE: N.T.S.

1 PARTIAL REFLECTE CEILING PLAN - AREA C
SCALE: 1/8" = 1'-0"

LATHAN ARCHITECTS



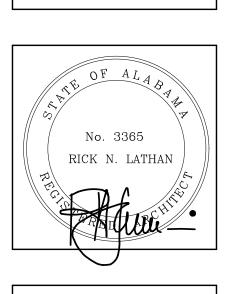
SHEET TITLE: PARTIAL REFLECTED CEILING PLAN - AREA C

PROJ. MGR.: R. VERNON DRAWN: BL

DATE: 6/24/2024 REVISIONS

JOB NO. 24-38 SHEET NO:

> A7.3 19 OF 27



SHEET TITLE: PARTIAL FINISH FLOOR PLAN - AREA A

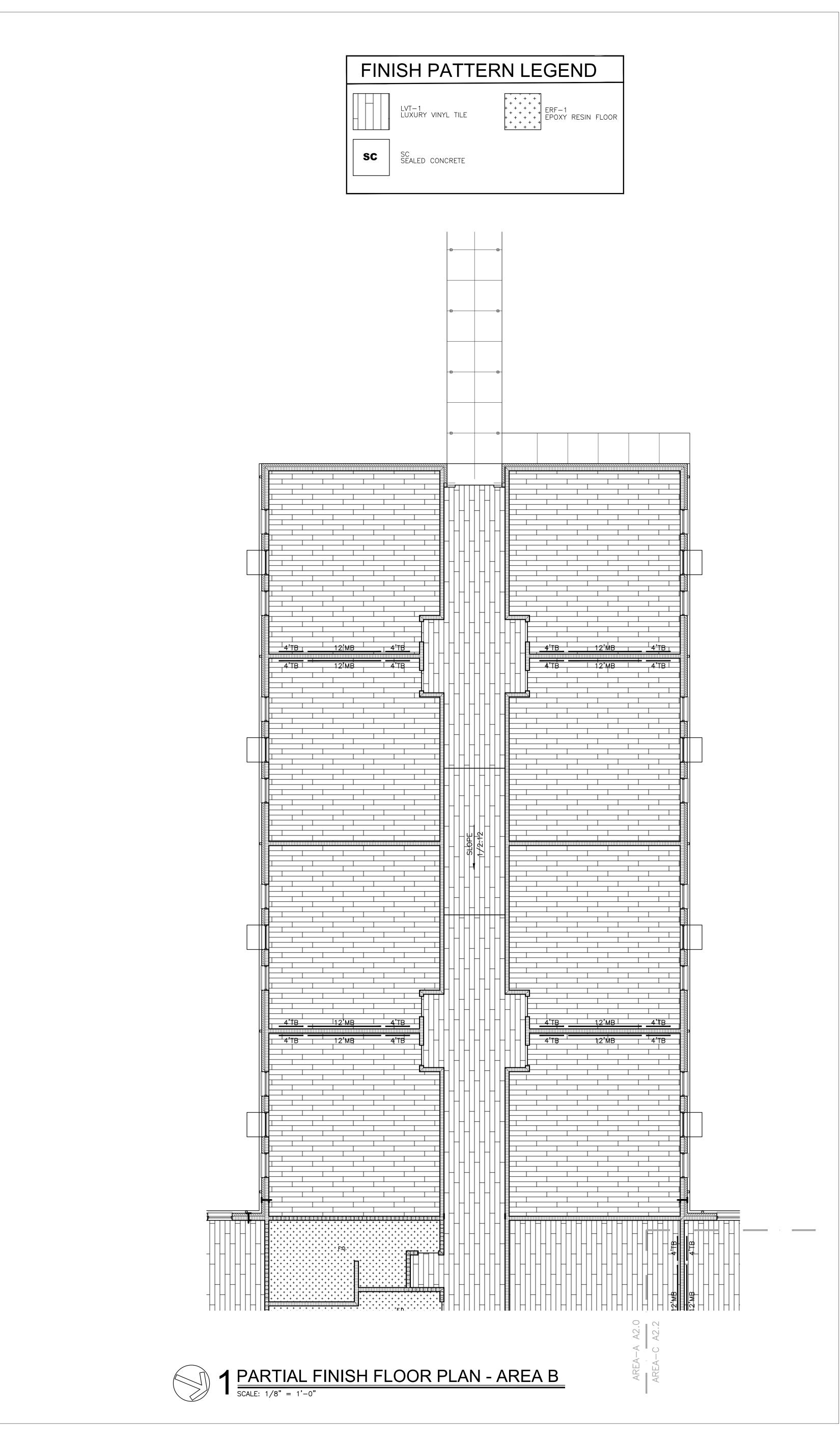
DRAWN: BL

PROJ. MGR.: R. VERNON DATE: 6/24/2024 REVISIONS

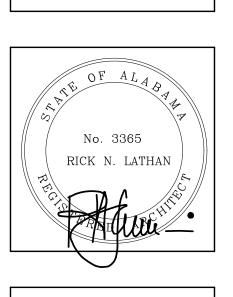
JOB NO. 24-38 SHEET NO:

A8.1

20 OF 27



LATHAN ARCHITECTS



SHEET TITLE:

PARTIAL FINISH FLOOR PLAN - AREA B

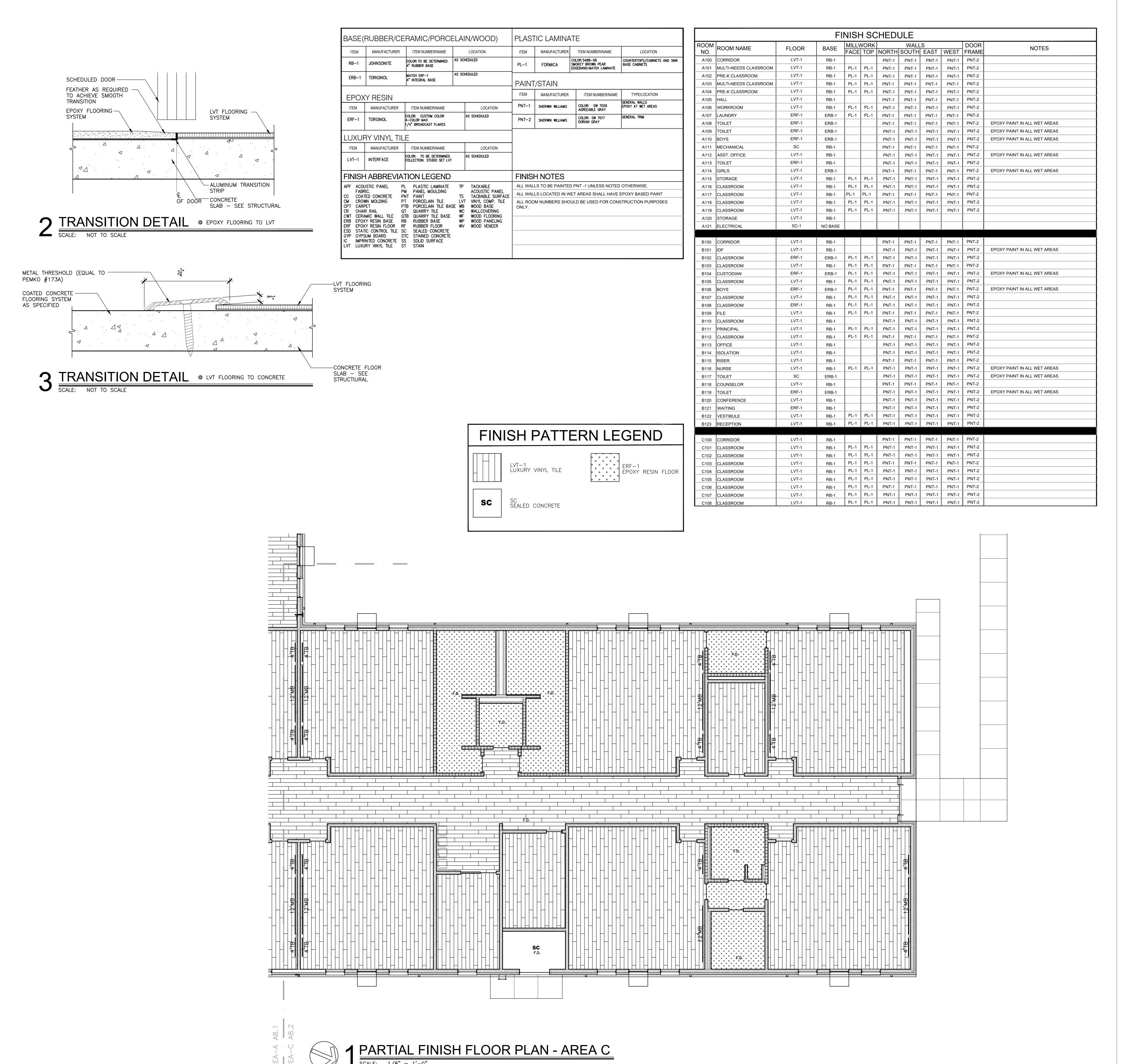
PROJ. MGR.: R. VERNON DRAWN: BL REVISIONS

DATE: 6/24/2024

JOB NO. **24-38** SHEET NO:

A8.2 21 OF 27

KEY PLAN
SCALE: N.T.S.



KEY PLAN

ARCHITECTS

CHO HIGH ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF

No. 3365 RICK N. LATHAN

SHEET TITLE: PARTIAL FINISH FLOOR PLAN - AREA C

PROJ. MGR.: R. VERNON DRAWN: **BL**

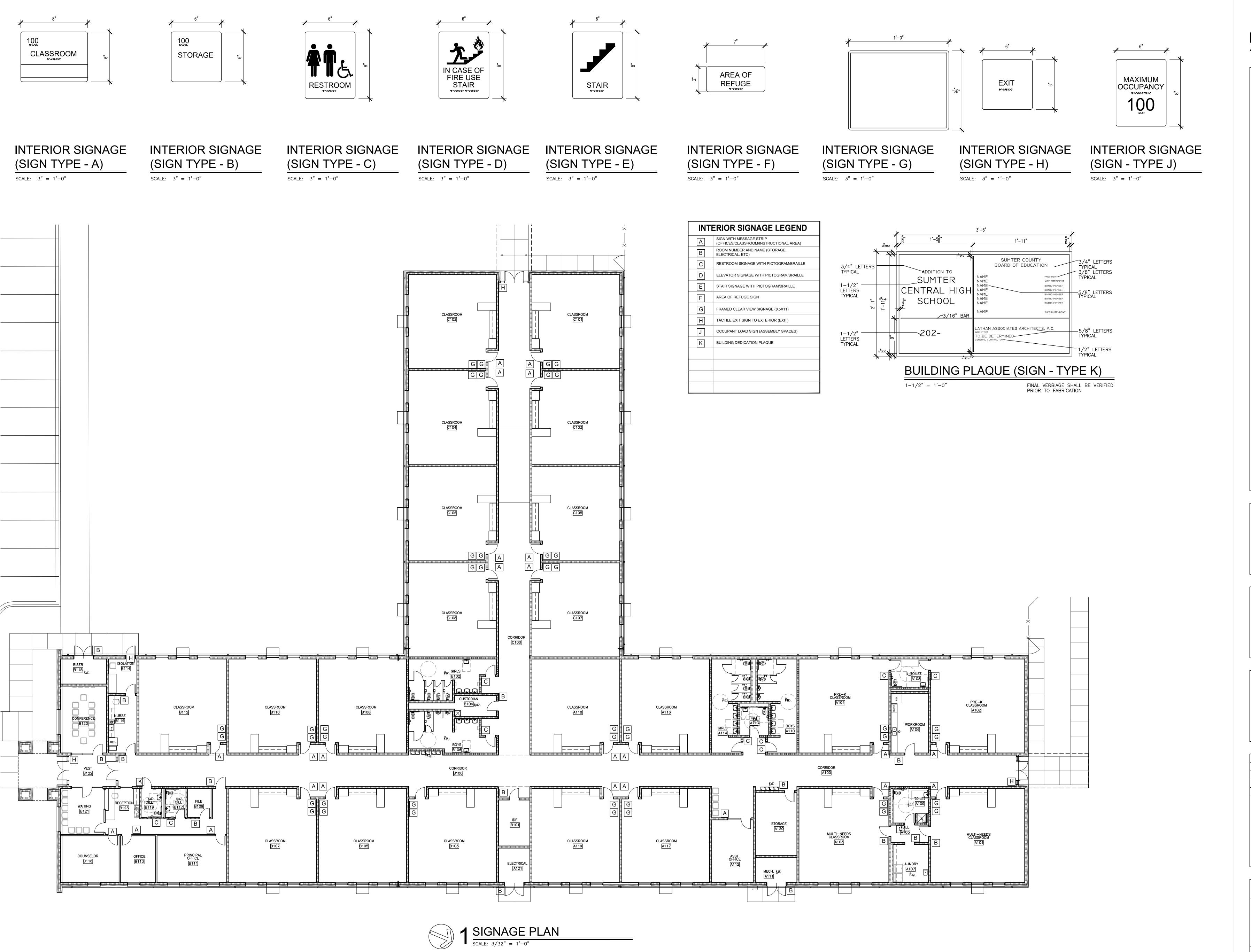
REVISIONS

DATE: 6/24/2024

JOB NO. **24-38**

SHEET NO: A8.3

22 OF 27

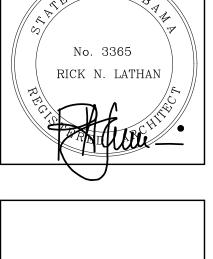




TRAL HIGH SCHOOL

K, AL 36925

F EDUCATION



SHEET TITLE: SIGNAGE PLAN

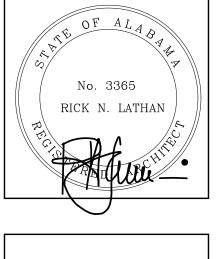
PROJ. MGR.: R. VERNON DRAWN: BL DATE: 6/24/2024

JOB NO. **24-38** SHEET NO: A9.0 23 OF 27



ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCH
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



SHEET TITLE:

GYM FLOOR PLAN &
ELEVATIONS

PROJ. MGR.: R. VERNON
DRAWN: JWW

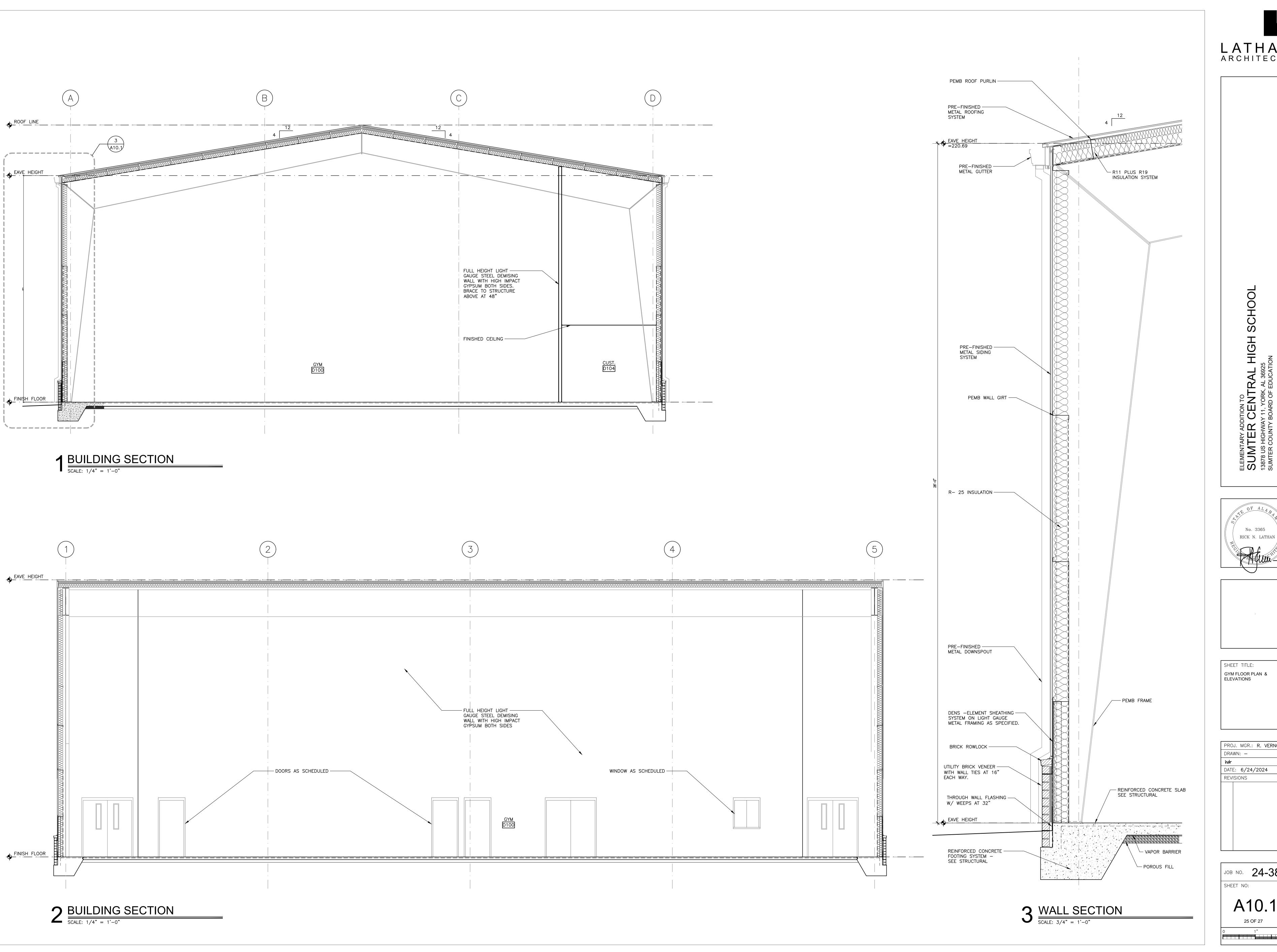
hdr

DATE: 6/24/2024

REVISIONS

JOB NO. **24-38**SHEET NO:

A10.0
24 OF 27



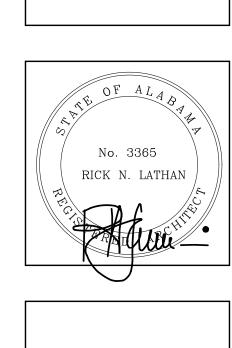


PROJ. MGR.: R. VERNON

JOB NO. **24-38** A10.1



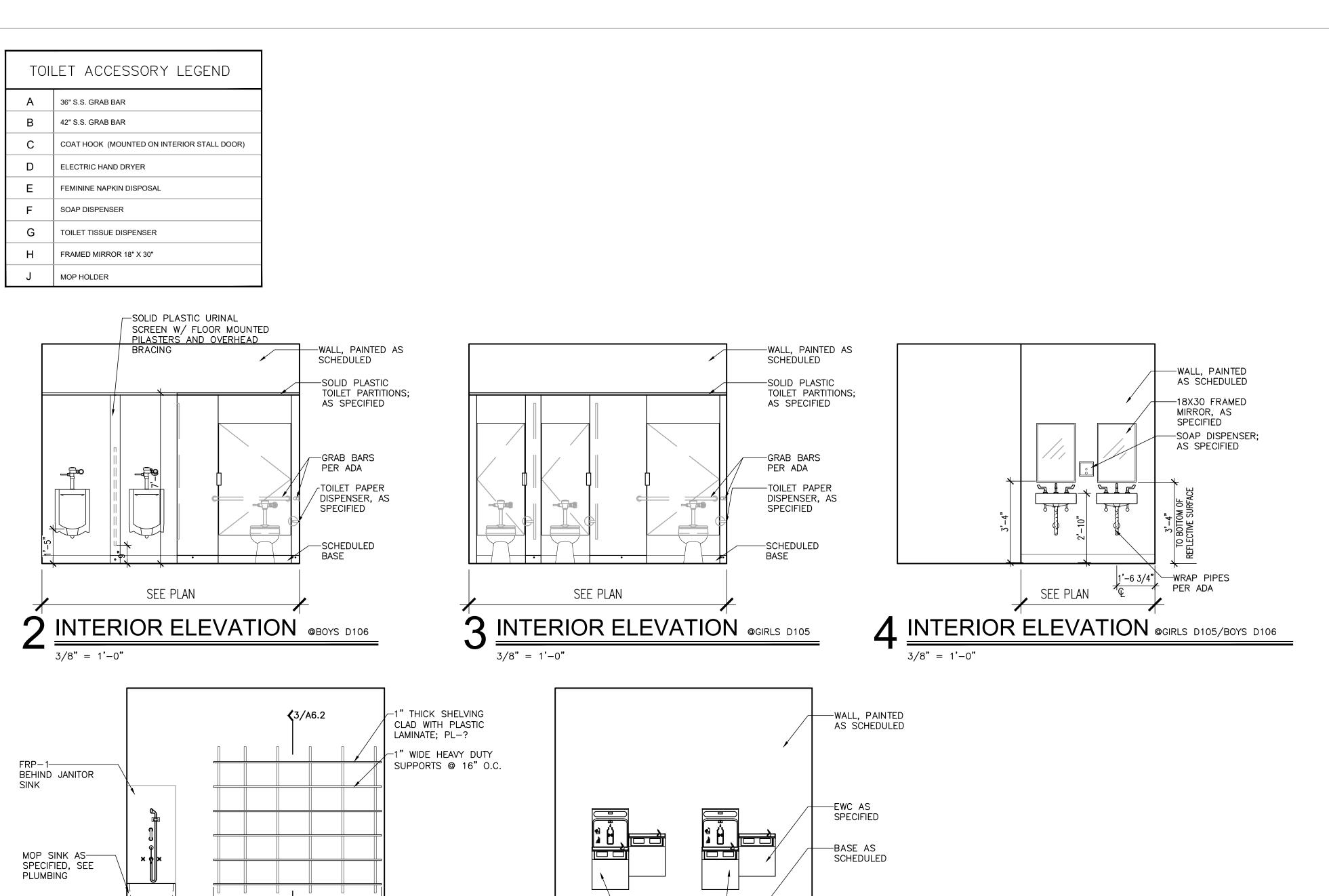




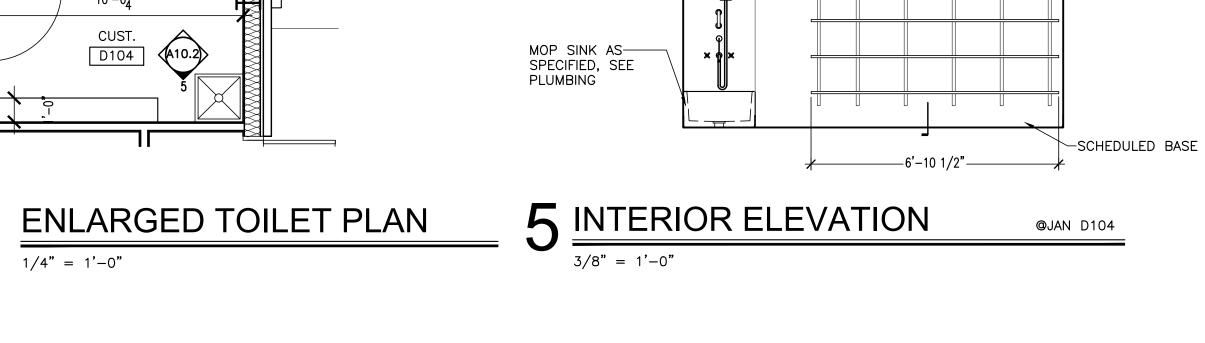


BL
6/24/2024
NS

JOB NO. 24-38
SHEET NO:
A10.2
26 OF 27



6 INTERIOR ELEVATION @EWC

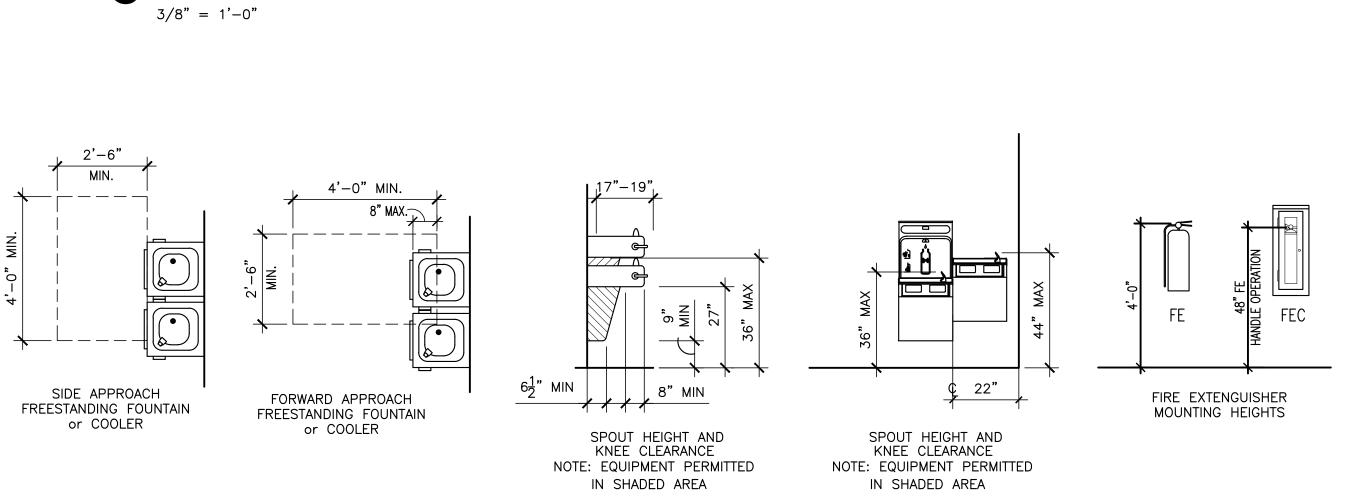


PAPER ——— TOWEL DISP.

> SOAP ——/ DISPENSER

— ADA HT. WATER CLOSET WALL -HUNG LAV.

> PROTECTIVE——/ WRAP, TYP. ALL LAV.



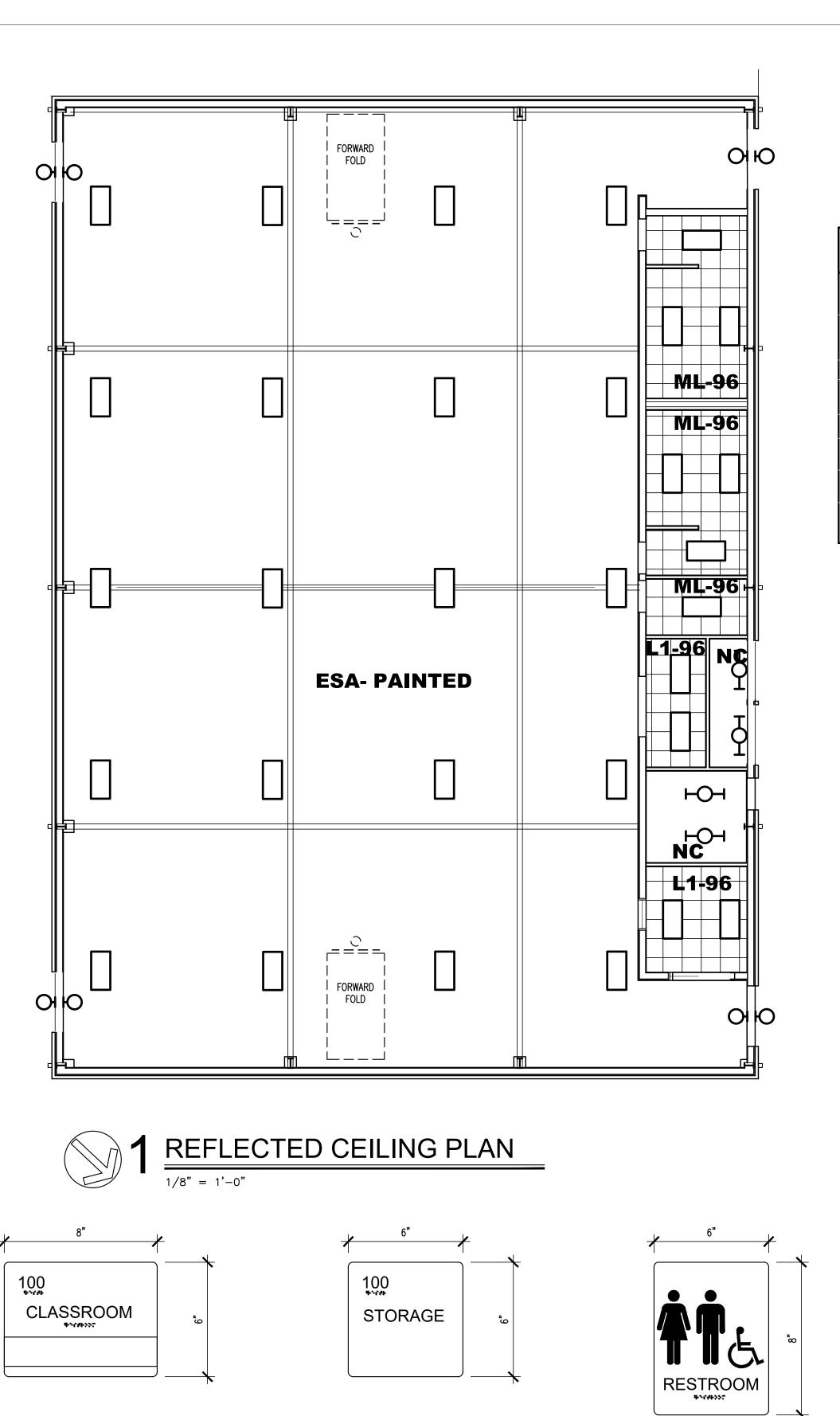
TYPICAL ADA DETAILS

1/4" = 1'-0"

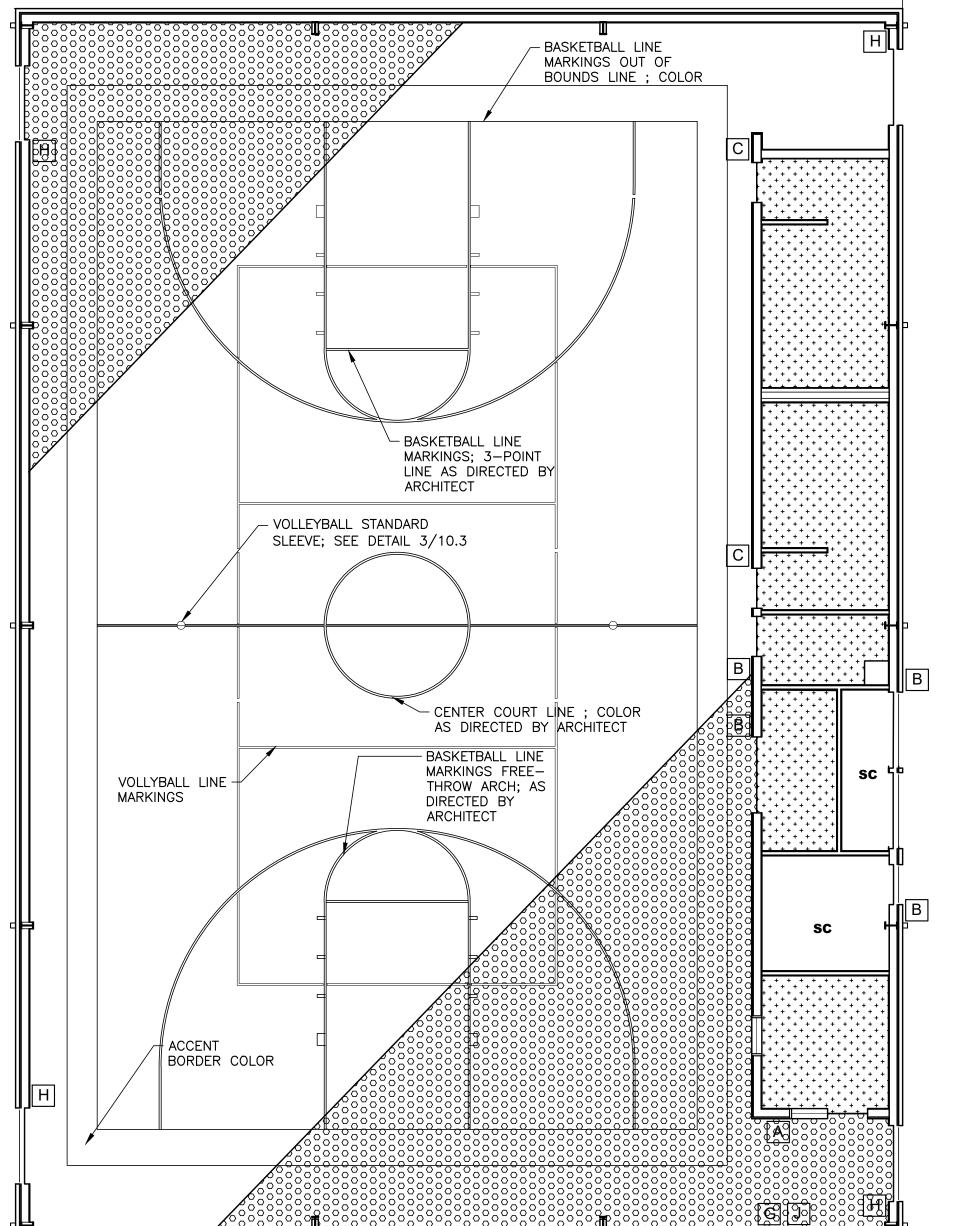
ADA HT.
WATER CLOSET

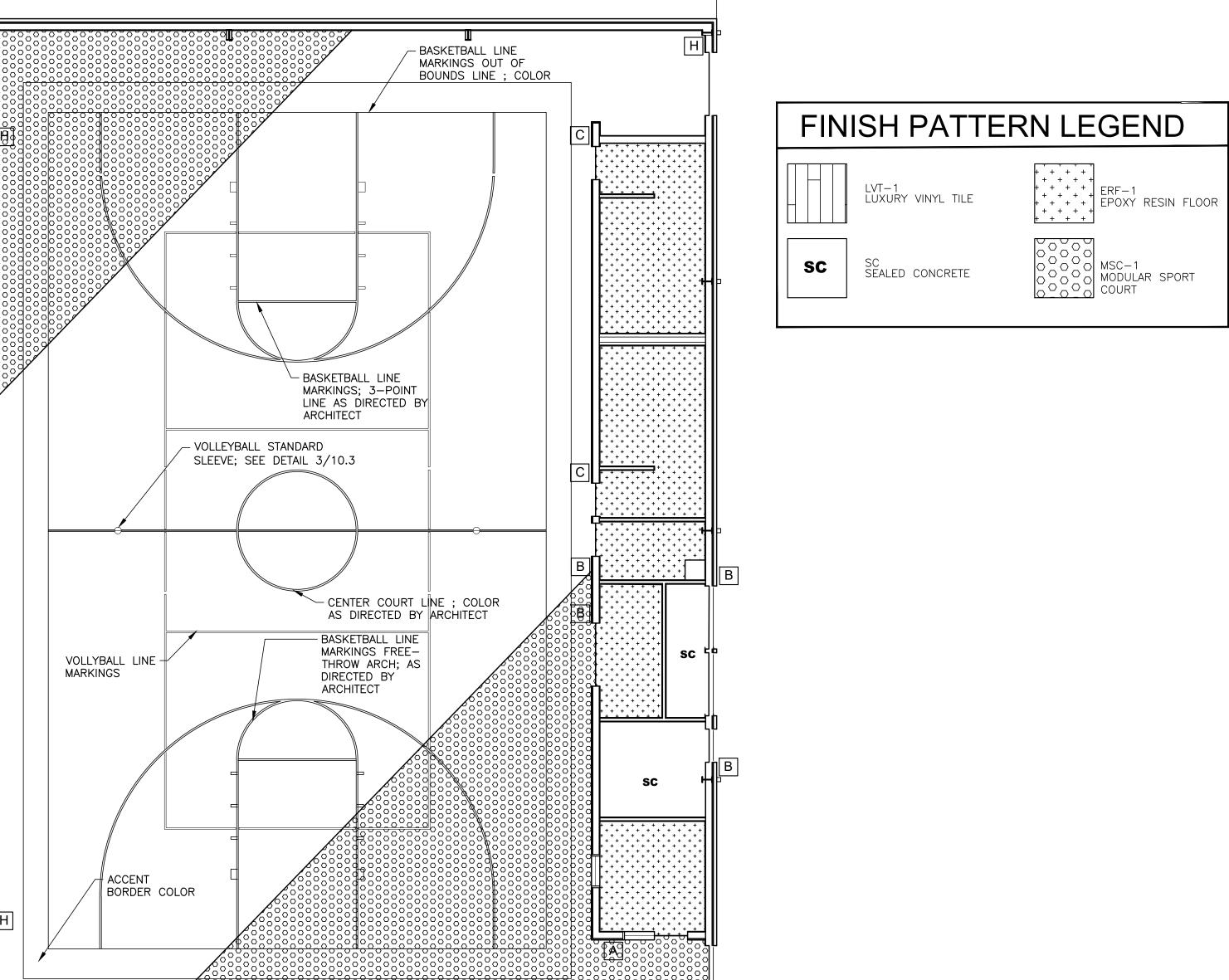
PAPER HOLDER

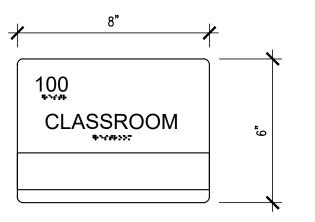
36" DOOR



		CEILING LEGEN	ID
		FIXTURE TYPES - SEE ELECTRICAL	
		CEILING TYPE	CEILING HEIGHTS
		GB-GYPSUM BOARD	E = MAINTAIN EXIST. CEILING HEIGHT
		MGB - MOISTURE RESISTANT GYPSUM BOARD	80 = 8'-0" AFF
		EG - EXTERIOR GYPSUM BOARD	84 = 8'-4" AFF
		L1 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	86 = 8'-6" AFF
	CEILING NOTES	ML - 2 x 2 MOISTURE RESISTANT LAY-IN	88 = 8'-8" AFF
	02/2///0 //0 /20	NC - NO CEILING	810 = 8'-10" AFF
1.	ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X"	ESA - EXPOSED STRUCTURE ABOVE; PAINT	90 = 9'-0" AFF
	FIRE RATED GYPSUM BOARD. ALL GYPSUM BOARD		92 = 9'-2" AFF
	WITHIN GYMNASIUM TO BE IMPACT RESISTANT		93 = 9'-3" AFF
2.	COORDINATE W/ MECH. PLUMBING, & ELECTRICAL DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO		94 = 9'-4" AFF
	ACCOMMODATE MECHANICAL, PLUMBING, & ELECTRICAL		96 = 9'-6" AFF
	SYSTEMS.		98 = 9'-8" AFF
3.	AFF - ABOVE FINISHED FLOOR		100 = 10'-0" AFF
4.	ALL CEILING HEIGHTS INDICATED ARE FROM		106 = 10'-6" AFF
	ADJACENT FINISHED FLOOR.		110 = 11'-0" AFF
5.	REFER TO ELECTRICAL DRAWINGS FOR FIXTURE	REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	1110 = 11'-10" AFF
	TYPES.	MATERIALS AND CEILING HEIGHTS	112 = 11'-2" AFF
6.	ALL AREAS INDICATING NEW CEILING TO IMPLY DEMOLITION OF EXISTING CEILING SYSTEMS AS REQ'D THAT AREA.	ceiling $$ $GB-90$	120 = 12'-0" AFF
7	ALL CEILING CRIPS ARE CENTERED IN DOOMS	$ \begin{array}{c} \text{CEILING} \longrightarrow GB - 90 \\ \text{TYPE} \end{array} $	126 = 12'-6" AFF
7.	ALL CEILING GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.		160 = 16'-0" AFF
	ALL MECHANICAL, ELECTRICAL AND PLUMBING ITEMS LOCATED IN ESA (EXPOSED STRUCTURE ABOVE)	/ CEILING	200 = 20'-0" AFF
8.		HEIGHT	240 =24'-0" AFF
	SHALL BE PAINTED AS DIRECTED BY ARCHITECT		260 = 26'-0" AFF

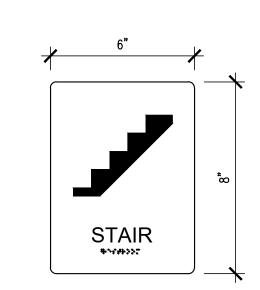








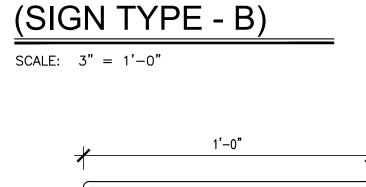




INTERIOR SIGNAGE (SIGN TYPE - E)



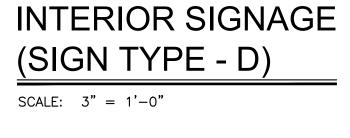
SCALE: 3" = 1'-0"

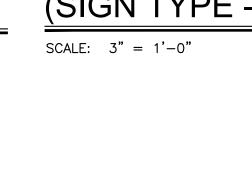


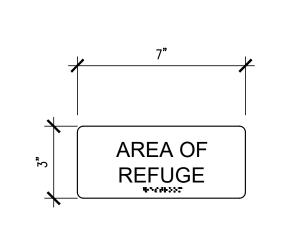
INTERIOR SIGNAGE

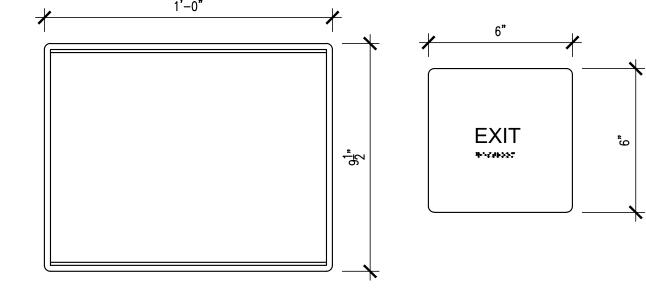


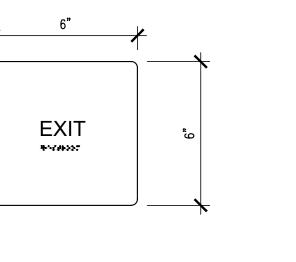


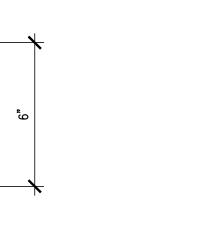








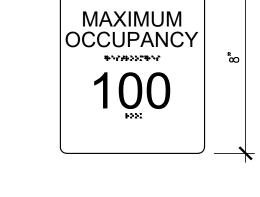




INTERIOR SIGNAGE INTERIOR SIGNAGE (SIGN TYPE - F) (SIGN TYPE - G) SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN TYPE - H) SCALE: 3" = 1'-0"



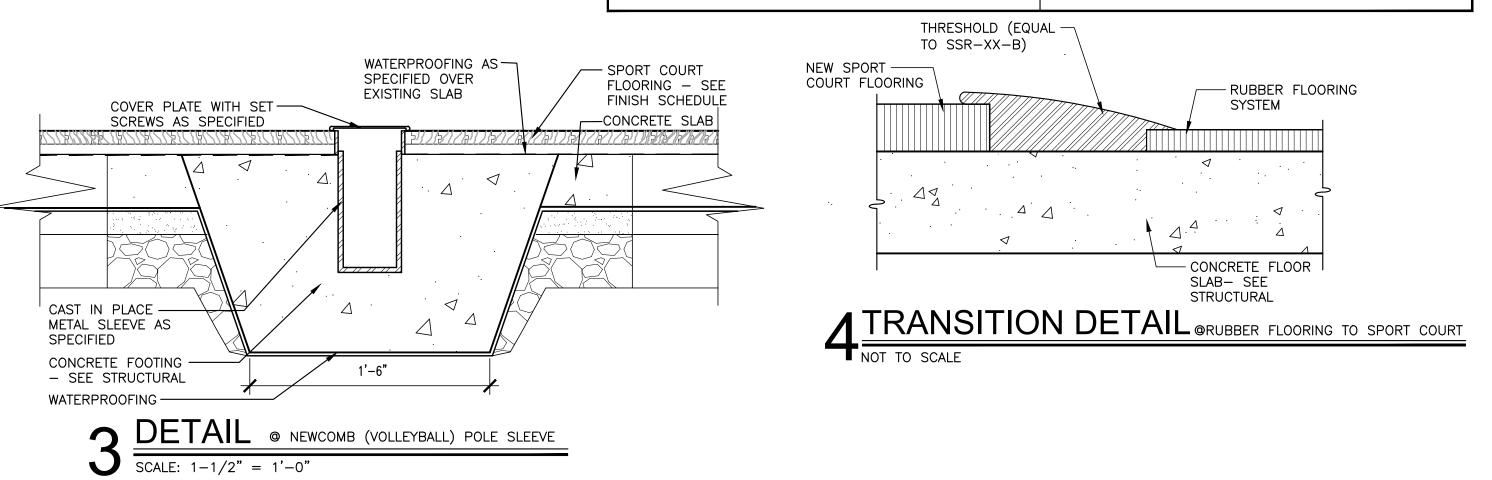
INTERIOR SIGNAGE (SIGN - TYPE J) SCALE: 3" = 1'-0"

INTI	ERIOR SIGNAGE LEGEND
Α	SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)
В	ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)
С	RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE
D	ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE
E	STAIR SIGNAGE WITH PICTOGRAM/BRAILLE
F	AREA OF REFUGE SIGN
G	FRAMED CLEAR VIEW SIGNAGE (8.5X11)
Н	TACTILE EXIT SIGN TO EXTERIOR (EXIT)
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)
K	BUILDING DEDICATION PLAQUE

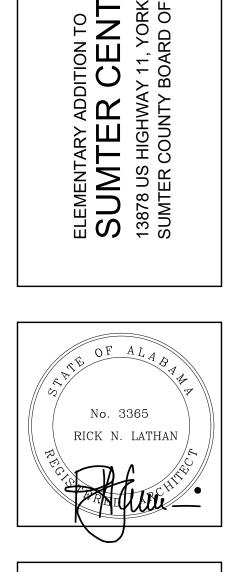
2 FLOOR FINISH PLAN

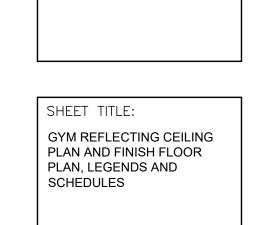
	FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	1 BASE	MILLV FACE		NORTH	WALL SOUTH		WEST	DOOR FRAME	NOTES
D100	GYM	MSC-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D101	OFFICE	LVT-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D102	RISER	sc	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D103	STORAGE	sc	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D104	CUSTODIAN	ERF-1	ERB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EPOXY PAINT IN ALL WET AREAS
D105	GIRLS	ERF-1	ERB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EPOXY PAINT IN ALL WET AREAS
D106	BOYS	ERF-1	ERB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EPOXY PAINT IN ALL WET AREAS
D107	ELECTRICAL	SC	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	

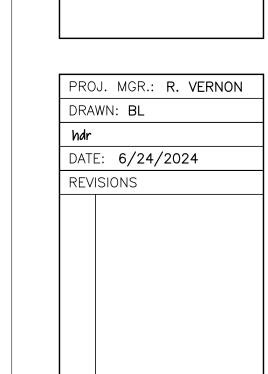
ITEM	MANUFACTURER	ITEM NUMBER/NAME		LOCATION	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
RB-1	JOHNSONITE	COLOR: TO BE DETERMINED 4" RUBBER BASE	AS SC	HEDULED	PL-1	FORMICA	COLOR: 5488-58 SMOKEY BROWN PEAR EDGEBAND: MATCH LAMINATE	COUNTERTOPS/CABINETS AND SIN BASE CABINETS
ERB-1	-1 TORIGINOL MATCH ERF-1 AS SCHEDULED 4" INTEGRAL BASE		PAINT/STAIN					
FPOX	Y RESIN				ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
ITEM	MANUFACTURER	ITEM NUMBER/NAME		LOCATION	PNT-1	SHERWIN WILLIAMS	COLOR: SW 7029 AGREEABLE GRAY	GENERAL WALLS EPOXY AT WET AREAS
ERF-1	TORGINOL	COLOR: CUSTOM COLOR 4-COLOR MAX 1/4" BROADCAST FLAKES		AS SCHEDULED	PNT-2	SHERWIN WILLIAMS	COLOR: SW 7017 DORIAN GRAY	GENERAL TRIM
	RY VINYL TIL	I			MODL	JLAR SPOF	T COURT	
ITEM	MANUFACTURER	ITEM NUMBER/NAME		LOCATION	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
LVT-1	INTERFACE	COLOR: TO BE DETERMINED COLLECTION: STUDIO SET LVT		AS SCHEDULED	MSC-1	SPORT COURT	COLOR: WOODGRAIN (LIGHT)	GYMNASIUM (FIELD)
FINISH	I ABBREVIA	TION LEGEND		<u> </u>	FINIS	H NOTES		
		L PLASTIC LAMINATE	TP	TACKABLE	ALL WAL	LS TO BE PAINTE	D PNT -1 UNLESS NOTED	OTHERWISE.
	FABRIC. PM PANEL MOULDING COATED CONCRETE PNT PAINT		TS	ACOUSTIC PANEL TACBABLE SURFACE	ALL WALLS LOCATED IN WET AREAS SHALL HAVE EPOXY BASED PAINT			
CPT CARP CR CHAII CWT CERA	ET P R RAIL Q MIC WALL TILE Q	PT PORCELAIN TILE PTB PORCELAIN TILE BAS TO QUARRY TILE TTB QUARRY TILE BASE TTB RUBBER BASE	LV SE WB WC WF WP	F VINYL COMP. TILE WOOD BASE WALLCOVERING WOOD FLOORING	ALL ROC	M NUMBERS SHC	OULD BE USED FOR CONS	STRUCTION PURPOSES
ERF EPOX	Y RESIN FLOOR RIC CONTROL TILE S	F RUBBER FLOOR	w.					

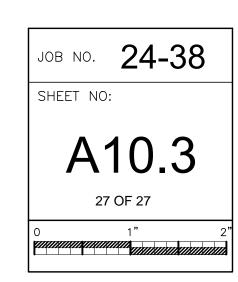












1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

- A. GENERAL BUILDING CODE:
 INTERNATIONAL BUILDING CODE, 2021 EDITION
- B. CONCRETE:
 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)
- C. PRECAST CONCRETE:
 PCI DESIGN HANDBOOK, LATEST EDITION
- PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTIONS FOR PRECAST CONCRETE PRODUCTS, LATEST EDITION
- D. ARCHITECTURAL PRECAST CONCRETE:
 PCI MNL-122 ARCHITECTURAL PRECAST CONCRETE, LATEST EDITION
- PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF
- ARCHITECTURAL PRECAST CONCRETE PRODUCTS, LATEST EDITION

 E. STRUCTURAL STEEL:
- STEEL CONSTRUCTION (ANSI/AISC 360-16)

 F. OPEN WEB STEEL JOISTS:

SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF

- STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE, LATEST EDITION

 G. STEEL DECK:
- STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS
- H. MASONRY:
 SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16)
- BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16)

 NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND
 "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY", LATEST EDITION
- I. COLD-FORMED STEEL FRAMING: 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
- J STORM SHELTER SAFE SPACE:
- ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS (ICC 500-2020)
- K. (PREFABRICATED) METAL BUILDING MBMA'S (METAL BUILDING MANUFACTURERS ASSOCIATION'S) METAL BUILDING SYSTEMS MANUAL, LATEST EDITION
- MBMA'S METAL ROOFING SYSTEMS DESIGN MANUAL, 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.
- CLASSROOMS------40
 FLOOR (REDUCIBLE)------100
 SHELTER FLOOR (UNREDUCIBLE)-----100
 SHELTER ROOF (UNREDUCIBLE)-----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.

	ROOF2 SHELTER ROOF (UNREDUCIBLE)10	
D.	ROOF SNOW LOADS: GROUND SNOW LOAD (Pg)5.	
	<pre>IMPORTANCE FACTOR (I)1. EXPOSURE FACTOR (Ce)1.</pre>	0
	THERMAL FACTOR (Ct)1.	.0

1.3 DESIGN LATERAL LOADS:

- B. SEISMIC LOADS:

 OCCUPANCY CATEGORY III (GROUP E OCCUPANCIES WITH OCCUPANCY > 250)

 SEISMIC IMPORTANCE FACTOR------1.25

 MAPPED SPECTRAL RESPONSE ACCELERATIONS:

 SS------0.199

 S1-----0.087

 SITE CLASS-----D

AREA C WITH PARTIAL AREA A-----75 KIPS

- SEISMIC RESPONSE COEFFICIENT, CS-----0.0759
 RESPONSE MODIFICATION FACTOR, R-----3.5
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- 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

STORM SHELTER HAS NOT BEEN CONSTRUCTED IN AN AREA SUSCEPTIBLE TO LAYDOWN AND/OR FALLING DEBRIS HAZARDS PER ICC 500 SECTION 305.3.

STORM SHELTER HAS NOT BEEN CONSTRUCTED IN AN AREA SUSCEPTIBLE TO FLOODING PER ICC 500 SECTION 402.1.

PER ICC 500, SPECIAL INSPECTION AND QUALITY ASSURANCE REQUIREMENTS HAVE BEEN INCLUDED WITHIN THE PROJECT SPECIFICATIONS - REFER TO SPEC. SECTION 01410.

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 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- 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. THE 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. THE CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS
- 2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

- 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. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.
- 2.10 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.
- 2.11 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
- 2.12 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 2.13 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.
- 2.14 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 DOCUMENTS.
- 2.15 OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

3.0 FOUNDATIONS

- 3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON, TITLED "ELEMENTARY ADDITION TO SUMTER CENTRAL HIGH SCHOOL, PROJECT NO. E1245091, DATED JUNE 20, 2024" ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.
- 3.2 MAXIMUM ALLOWABLE BEARING PRESSURES (PSF) PER GEOTECHNICAL REPORT:
 BUILDING FOUNDATIONS-----2500
- NOTE: ALL FOOTING BEARING ELEVATIONS SHALL BE BEARING IN SIMILAR
 MATERIAL (NATIVE SOILS OR WEATHERED BEDROCK), EXTEND FOOTINGS AS
 NECESSARY WITH LEAN CONCRETE OR FLOWABLE FILL.
- 3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- 3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

- 3.5 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINISH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR. AT EXTERIOR, CAP GRANULAR BACKFILL WITH 18" OF SOIL.
- 3.6 GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSHER RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSHER RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 3.7 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
- 3.8 DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST SEVEN DAYS AND HAVE ATTAINED 75% OF DESIGN STRENGTH.
- 3.9 WHERE CONCRETE WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.
- 3.10 WHERE SPREAD FOOTINGS ARE AT THE SAME ELEVATION AS CONTINUOUS WALL FOOTINGS, REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS. WHERE SPREAD FOOTINGS ARE BELOW CONTINUOUS WALL FOOTINGS, CONTINUOUS WALL FOOTINGS ARE TO STEP DOWN ONTO SPREAD FOOTINGS.
- 3.11 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
- 3.12 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.
- 3.13 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.
- 3.14 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

- 4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS: MINIMUM 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	EXPOSURE CATEGORY
	0.57 0.50		FOOTINGS SLABS	C1 F0
	0.45 4-6%		UNLESS NOTED	c0
A. CONCRETE M	IX DESIGN SHALI	_ BE WORKAE	BLE WITH LOWEST	TOTAL WATER PER

- CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.

 B. EXPOSURE CLASS DESCRIPTIONS:
- FO: CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES AND PROTECTED
- FROM MOISTURE.

 CO: CONCRETE DRY AND PROTECTED FROM MOISTURE

 C1: CONCRETE EXPOSED TO MOISTURE BUT NOT TO DEICING CHEMICALS.
- 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" AND 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
COLUMNS	1-1/2" CLEAR OF TIES
FOUNDATION RETAINING WALLS	2" BOTH FACES
SLAB FACES NOT EXPOSED TO WEATHER OR SLAB FACES EXPOSED TO WEATHER	EARTH3/4"
A. #5 AND LESS	
B. #6 AND GREATER	
BEAMS	1-1/2" CLEAR OF STIRRUPS

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

JOISTS-----3/4"

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.
- PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 3-4 TIMES SLAB THICKNESS IN FEET MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB PROVIDE JOINTS SPACED 12 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2 TIMES SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.

- FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUACY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.
- EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B. SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.
- WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS, PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT.
- PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.

WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS (SUCH AS

EDGE REINFORCEMENT AT LOADING DOCKS), PROVIDE JOINT IN STEEL ELEMENT.

- 4.15 CONTRACTION JOINTS IN WALLS: WALL JOINTS SHALL NOT BE SPACED FARTHER THAN 15 FEET FOR 8" WALLS, 20 FEET FOR 10" WALLS AND 30 FEET FOR 12" WALLS. WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATE
- WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATES OR CORNERS OF THE WALL. DISCONTINUE 50% OF THE WALL HORIZONTAL REINFORCING THROUGH JOINTS; TRIMMING BACK THE REINFORCING BARS 2" FROM THE CONTROL JOINT LOCATION. LOCATE CONTROL JOINTS EACH SIDE OF THE WALL. SEAL JOINTS WITH ELASTOMERIC SEALANT. SEE WALL CONTRACTION JOINT TYPICAL DETAIL.
- 4.16 NO CONDUITS OR PIPES SHALL BE CAST INTO THE SLABS.
- 4.17 WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.
- 4.18 CAST IN PLACE ALL SLEEVES AND INSERTS.
- 4.19 SLAB CRACKS THAT DEVELOP ON EXPOSED LEVELS SHOULD BE INJECTED WITH EPOXY TO LIMIT DETERIORATION OF THE REBAR.

5.0 ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE

- 5.1 REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR DIMENSIONAL, FINISHING, AND OTHER REQUIREMENTS OF THE ARCHITECTURAL PRECAST.
- 5.2 PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 5.3 ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.
- A. CONNECTIONS OF THE PRECAST TO THE STRUCTURE SHALL NOT RESTRAIN THE STRUCTURE'S 1" DOWNWARD MOVEMENT AT ALL BEAMS AND 1" UPWARD MOVEMENT AT ROOF BEAMS.
- 5.4 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.
- 5.5 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR MISCELLANEOUS METALS. AS REQUIRED. FOR ALL PRECAST WORK.
- 5.6 ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.
- 5.7 ADJUSTMENT AND POSSIBLY RESETTING OF PRECAST MAY BE REQUIRED TO ALIGN PRECAST DUE TO SUPPORT DEFLECTION AND/OR ROTATION.
- 5.8 SUPPORTING BEAMS AND STRUCTURE WILL DEFLECT AND/OR ROTATE. PRECAST MANUFACTURER AND ERECTOR SHALL COORDINATE CONNECTION/ERECTION SEQUENCE TO ACCOUNT FOR THIS MOVEMENT AND MAKE FINAL ADJUSTMENTS TO ALIGN AND PLUMB PRECAST. THIS MAY REQUIRE ADJUSTING CONNECTIONS OR RECONNECTING.

6.0 STRUCTURAL STEEL

- 6.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". FABRICATOR SHALL BE QUALIFIED BY PARTICIPATING IN THE AISC QUALITY CERTIFICATION PROGRAM AND HOLD THE AISC BUILDING FABRICATOR QMS CERTIFICATION (BU).
- 6.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
- 6.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS & COLUMNS AND STEEL CHANNELS; A572 FOR S, M, & HP SHAPES AND STEEL ANGLES; ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, & BEAM CONNECTION
- 6.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C.
- 6.5 STRUCTURAL STEEL PIPE: ASTM A53, GRADE B.
- 6.6 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.
- 6.7 THREADED AND PLAIN STEEL RODS: ASTM A36
- 6.8 HIGH STRENGTH THREADED RODS: ASTM A193 B7
- 6.9 STAINLESS STEEL THREADED RODS: ASTM F593 AISI 304 OR 316
- 6.11 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.

6.10 STAINLESS STEEL HIGH STRENGTH THREADED RODS: ASTM A193 B8 CLASS 2

- A. IF ANCHOR ROD ASSEMBLIES ARE NOT ENCASED IN MINIMUM OF 3" OF CONCRETE, ANCHOR ROD ASSEMBLIES ARE TO BE HOT-DIP GALVANIZED.
- 6.12 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

6.13 CONNECTIONS:

- A. BEARING TYPE A325-N AND SLIP-CRITICAL TYPE A325-SC 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. OTHERWISE, BOLTS SHALL BE 3/4" DIAMETER.
- B. 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.

- C. 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
- D. 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.
- 6.14 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 OTHERWISE, PER ASTM A123/A123M. 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.
- 6.15 WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES EACH SIDE OF BEAM WEB, OF THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF HSS
- 6.16 PROVIDE 3/4" THICK CLOSURE PLATES ON THE ENDS OF HSS BEAMS. SHOP WELD ALL AROUND TO BEAM WITH 1/4" PARTIAL PENETRATION WELDS.
- 6.17 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.
- 6.18 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/ENGINEER AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.
- 6.19 ALL STEEL NOTED AS "CONT." INDICATES THAT STEEL SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH PARTIAL JOINT PENETRATION (GROOVE) WELD, UNLESS
- 6.20 INCLUDE A QUANTITY ALLOWANCE UNDER BASE BID FOR PROVIDING AN ADDITIONAL 3 TONS OF IN-PLACE MEDIUM HEAVY STRUCTURAL STEEL SYSTEM CONSTRUCTION, NOT OTHERWISE INDICATED, TO BE SHOP FABRICATED, PRIMED, AND INSTALLED AT THE DIRECTION OF THE ARCHITECT. THIS STEEL MAY BE USED THROUGHOUT THE PROJECT AT MULTIPLE LOCATIONS OF ANY DIVISIBLE QUANTITY DENOMINATION OR LOCATION, INCLUDING BUT NOT LIMITED TO: LINTELS, BEAMS, COLUMNS, SHELF ANGLES, EDGE ANGLES, BENT PLATES, REBAR, JOISTS, ETC.
- 6.21 INCLUDE A QUANTITY ALLOWANCE UNDER BASE BID FOR PROVIDING AN ADDITIONAL 1 TON OF IN-PLACE MISCELLANEOUS STEEL SYSTEM CONSTRUCTION, NOT OTHERWISE INDICATED, TO BE FABRICATED, PRIMED, AND INSTALLED AT THE DIRECTION OF THE ARCHITECT. THIS STEEL MAY BE USED THROUGHOUT THE PROJECT AT MULTIPLE LOCATIONS OF ANY DIVISIBLE QUANTITY DENOMINATION OR LOCATION, INCLUDING BUT NOT LIMITED TO: FINISHED RAILINGS, CLIP ANGLES, EMBEDS, STAIR COMPONENTS, ETC.

7.0 STEEL JOISTS

JOIST INSTITUTE (SJI).

NOTED, AS SHOWN IN TYPICAL DETAIL.

- 7.1 DESIGN, FABRICATE, AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE STEEL
- 7.2 PROVIDE A MINIMUM END BEARING ON STEEL SUPPORTS AS REQUIRED BY SJI.
 STAGGER THE ENDS OF JOIST IF NECESSARY. GENERAL CONTRACTOR COORDINATE
 METAL DECK SPLICE LOCATION TO CENTER OVER JOIST.
- 7.3 PROVIDE HORIZONTAL AND DIAGONAL BRIDGING IN ACCORDANCE WITH SJI TO PROVIDE ADEQUATE JOIST CHORD BRACING.
- 7.4 AT JOIST PARALLEL TO MASONRY WALL, WELD EACH BRIDGING ROW TOP AND BOTTOM TO AN ANGLE 3X3X3/16X0'-6". ANCHOR ANGLE WITH TWO 3/8" DIAMETER SLEEVE
- 7.5 AT JOISTS PARALLEL TO BEAMS, ANCHOR BRIDGING ROWS BY WELDING TO BEAMS.

ANCHORS WITH TWO-INCH EMBEDMENT INTO WALL.

SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.

AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

7.7 IN ADDITION TO THE LOADS INDICATED IN THE STRUCTURAL DRAWINGS, JOISTS SHALL BE DESIGNED FOR CONCENTRATED LOADS IN EXCESS OF 100 LB HUNG FROM OR SUPPORTED BY JOISTS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATIONS.

7.6 DESIGN ROOF JOISTS TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS

7.8 JOIST SEATS FOR JOIST BEARING ON BEAMS OR WALLS IN LINE WITH LATERAL FRAMES OR SHEAR WALLS SHALL BE DESIGNED FOR A ROLLOVER FORCE EQUAL TO 30% OF THE DEAD LOAD OF THE JOIST REACTION, UNLESS NOTED OTHERWISE. IN NO CASE SHALL THE ROLLOVER FORCE BE LESS THAN 300 PLF PERPENDICULAR TO THE

LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION,

- 7.9 JOISTS AND JOIST SEATS SHALL BE DESIGNED FOR AXIAL LOADS WHERE INDICATED IN THE STRUCTURAL DRAWINGS.
- 7.10 DESIGN CALCULATIONS SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND STRUCTURAL ENGINEER FOR JOISTS WITH CANTILEVERS OR CONCENTRATED LOADS AND FOR JOIST SIZES FOR WHICH STANDARD SJI LOAD TABLES ARE NOT APPLICABLE. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING JOISTS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED
- 7.11 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS,
 PIPING OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE JOIST BRIDGING.

8.0 STEEL DECK

AS AN INCOMPLETE SUBMITTAL.

JOIST SEAT.

- 8.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI).
- 8.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.
- TYPICAL DETAILS AND/OR NOTED IN PLAN/SECTION NOTES.

 A. MANUFACTURER SHALL VERIFY ROOF DECK ATTACHMENT IS ADEQUATE TO RESIST

THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD

8.3 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE AS SHOWN IN THE

8.4 ROOF DECK: WIDE RIB TYPE "WR". STEEL ROOF DECK. 20 GAGE. 1-1/2" DEEP.

TABLE PROVIDED IN THE TYPICAL DETAILS.

GALVANIZED, UNLESS NOTED OTHERWISE.

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

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No. 22596
PROPESSIONAL
PROPESSI

GENERAL NOTES

SHEET TITLE:

PROJ. MGR.: HCW
DRAWN: ABS

DATE: 6/24/2024
REVISIONS

JOB NO. **24-38**

SHEET NO: **S1.0**1 OF 16

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- 8.5 CONTRACTOR OPTION TO USE HILTI S-SLC 02 M HWH IN LIEU OF #10 SIDELAP SCREWS AND HILTI FASTENERS IN LIEU OF #12 TEK SCREWS AS FOLLOWS: HILTI S-MD 12-24x1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS WITH 16 GA \leq tf \leq 1/4"; HILTI X-HSN 24 PINS FOR JOISTS AND BEAMS WITH 1/8" \leq tf \leq 3/8"; & HILTI X-ENP 19 L15 PINS FOR BEAMS WITH tf $\geq 1/4$ ".
- 8.6 WELDED CONNECTIONS: E60XX ELECTRODES. WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.
- 8.7 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

9.0 MASONRY

- 9.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.
- 9.2 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.
- 9.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.
- 9.4 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.
- 9.5 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.
- 9.6 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.
- 9.7 MORTAR: EXCEPT OTHERWISE SET FORTH HERIN ALL MORTARS AND THE MATERIALS THERIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR MORTAR OF MASONRY UNITS, ASTM C270.
- A. THE TYPE OF MORTAR BASED ON CONSIDERATION OF THE LOCATION OF THE UNIT MASONRY CONSTRUCTION SHALL BE AS FOLLOWS:

USE OF LOCATION	TYPE OF MORTAR
BELOW GRADE FOUNDATION AND WALLS	M
RETAINING WALLS	M
FIRE RESISTIVE WALLS RATED 2 HOURS OR MORE	M OR S
EXTERIOR WALLS AND LOAD BEARING WALLS	M OR S
PARTITIONS	M, S OR N
SOLID MASONRY UNITS	ONE CLASSIFICATION
	LESS THAN THE ABOVE
MORTAR OR GROUT UNDER CONCENTRATED LOADS	M
FENCES OR SITE WALLS	M OR S

- 9.8 ALL MASONRY SHALL BE STACK BOND. UNLESS NOTED
- 9.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR
- 9.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE, SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.
- 9.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.
- A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED (LOAD BEARING OR NON-LOAD BEARING) 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.
- B. SHOP DRAWINGS SHALL UNDERGO A QUALITY REVIEW BY THE REBAR DETAILER & (OUALITY CONTROL) SUPERVISOR AS WELL AS THE CONTRACTOR. SUBMITTALS SHALL INCLUDE ALL OPENINGS, REINFORCING, AND ELEVATIONS NOTED. SUBMITTALS REVIEWED MORE THAN A 2ND TIME MAY RESULT IN DELAYS TO THE CONTRACTOR. ANY ADDITIONAL TIME REQUIRED TO REVIEW A SUBMITTAL FOR A 3RD OR MORE TIME WILL BE BILLED TO THE CONTRACTOR AS ADDITIONAL SERVICES.
- C. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A REBAR DETAILER CAPABLE OF HAVING THE SAME TEAM OF REBAR DETAILERS THROUGHOUT THE PROJECT. A LETTER WITH A LIST OF THE REBAR DETAILERS AND THE QUALITY CONTROL SUPERVISOR AND THEIR INITIALS SHALL BE SUBMITTED BEFORE ANY SHOP DRAWINGS HAVE BEEN SUBMITTED. THE INITIALS OF THE REBAR DETAILERS AND THE QUALITY CONTROL SUPERVISOR SHALL BE NOTED ON EACH SHOP DRAWING.
- 9.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN.
- 9.13 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.
- 9.14 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.
- 9.15 WHEN REINFORCING IS SPECIFIED, PROVIDE REINFORCING AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.
- 9.16 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.
- 9.17 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS.
- 9.18 WHERE ANY CMU WALL IS NOT SUPPORTED AT THE TOP, PROVIDE MINIMUM #5@16 VERTICAL REINFORCING, UNLESS NOTED OTHERWISE.
- 9.19 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.
- 9.20 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 PERMITTED. 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".
- 9.21 PROVIDE DOVETAIL ANCHORS AT 16" O.C., UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
- 9.22 PROVIDE GROUT FILLED LINTEL BLOCKS AT TOP OF ALL CMU WALLS REINFORCED WITH 2#4 BARS CONTINUOUS, UNLESS NOTED OTHERWISE.
- 9.23 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.
- 9.24 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.

- 9.25 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.
- 9.26 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".
- 9.27 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.

COLD-FORMED STEEL FRAMING

- 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 UNLESS SPECIFICALLY DESIGNED AND DETAILED IN DRAWINGS, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL DETAILS FOR FRAMING LAYOUT AND SECTIONS. 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.
- 10.3 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.

10.4 DEFLECTION LIMITS FOR MEMBERS:

Α.	SOFFITS:	DL L/240 LL L/240 TL L/180
В.	WALL SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600
С.	WALL SUPPORTING STUCCO:	HORIZONTAL DEFLECTION OF L/360
D.	WALL SUPPORTING EIFS:	HORIZONTAL DEFLECTION OF L/240
Ε.	WALL PARTITIONS:	HORIZONTAL DEFLECTION OF L/180

- 10.5 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF
- 10.6 COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN.
- 10.7 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.
- 10.8 PROVIDE WALL BRACING. CONNECTION DETAILS. WINDOW/DOOR HEADERS. ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS.
- 10.9 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.
- 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 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL NON-LOAD BEARING COLD-FORMED STEEL FRAMING.
- 10.12 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.

PREFABRICATED METAL BUILDING

- 11.1 METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF MBMA (METAL BUILDING MANUFACTURERS ASSOCIATION) AND HAS MET THE REQUIREMENTS OF IAS (INTERNATIONAL ACCREDITATION SERVICE) AC472 ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS, WHICH IS BASED ON THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
- A. METAL BUILDING ERECTOR SHALL BE ACCREDITED UNDER THE IAS AC478 ACCREDITATION CRITERIA FOR INSPECTION PRACTICES OF METAL BUILDING ASSEMBLERS.
- 11.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH THE MBMA'S METAL BUILDING SYSTEMS MANUAL & METAL ROOFING SYSTEMS DESIGN MANUAL (LATEST EDITIONS & BASED ON THE GENERAL BUILDING CODE NOTED ABOVE). THE APPLIED METAL BUILDING LIVE LOADS AND LATERAL LOADS ARE TO MEET LOADS PER THE GENERAL BUILDING CODE NOTED ABOVE.
- 11.3 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 EOUIPMENT. SEE SPECIFICATIONS FOR MAGNITUDE OF MINIMUM DESIGN COLLATERAL
- 11.4 ANCHOR ROD SIZE, TOTAL LENGTH, AND LOCATION BY METAL BUILDING SUPPLIER. FOR ANCHOR ROD EMBEDMENT LENGTH, SEE SHEET S1.5. ANCHOR RODS PURCHASED AND INSTALLED BY GENERAL CONTRACTOR.
- 11.5 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.

11.6 HORIZONTAL FORCE TRANSFER FROM METAL BUILDING COLUMN BASE TO CONCRETE

- SHALL BE BY THE METAL BUILDING SUPPLIER.
- 11.7 METAL BUILDING SUPPLIER TO VERIFY COLUMN LAYOUT. ANY CHANGES MUST BE SUBMITTED FOR REVIEW OF THE FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS. 11.8 GRAVITY DESIGN LOADS:
- A. LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY) B. DEAD LOAD: WEIGHT OF THE STRUCTURE
- C. 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, BASKETBALL GOALS, ETC.

- 11.9 DEFLECTION LIMITS FOR MEMBERS: A. PURLINS AND RAFTERS: DL L/360 LL L/360 TL L/240
- B. GIRTS: HORIZONTAL DEFLECTION OF L/240
- C. OVERALL BUILDING DRIFT: H/200, WHERE "H" IS THE BUILDING EAVE

- 11.10 ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURES (IN OR OUT / DOWN OR UP) ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.
- 11.11 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.
- 11.12 BEFORE THE INSTALLATION OF FOUNDATIONS. THE METAL BUILDING SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON PRELIMINARY METAL BUILDING REACTIONS GENERATED BY STRUCTURAL DESIGN GROUP, INC. AND AS SHOWN IN THE TYPICAL DETAILS. DIFFERENCES IN PRELIMINARY & ACTUAL REACTIONS MAY REQUIRE ADJUSTMENTS TO THE FOUNDATION SIZES AFTER REVIEWING THE FINAL METAL BUILDING COLUMN REACTIONS.
- 11.13 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.
- 11.14 MASONRY OR CFS FRAMED 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 AND CFS FRAMED WALLS.
- 11.15 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.
- 11.16 EXCEPT AS OTHERWISE APPROVED BY ARCHITECT, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.
- 11.17 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL LOADS (WIND & SEISMIC).
- 11.18 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.

POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

- 12.1 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.
- 12.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.
- 12.3 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)
 - 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)

4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED

- 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)
- 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)

15.DEWALT POWER-BOLT+ (ICC-ES ESR-3260)

- 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-3G" (ICC-ES ESR 5026) 3. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
- 4. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814) 5. HILTI KWIK-X DUAL ACTION ANCHOR SAFESET SYSTEM WITH KHC CAPSULE
- ADHESIVE AND KWIK-HUS EZ (ICC ESR-5065) 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)

12.4 FOR ANCHORING INTO MASONRY:

- A. SOLID-GROUTED CONCRETE MASONRY
- 1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES ACO1 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 "SET-3G" (ICC-ES ESR-4844)
- 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 c. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4878)
- d.DEWALT AC100+ GOLD (ICC-ES ESR-3200)

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)

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH

- 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-3G" (ICC-ES ESR-1056) 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.
- 3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

c. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

- 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-3G" (ICC-ES ER-870) 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.
- 12.5 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:

3. DEWALT "AC100+ GOLD" (ICC-ES ESR-4105)

- 1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16
- $GA \leq TF \leq 1/4$ " 2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM $1/8'' \le TF \le 3/8''$ 3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF $\geq 1/4$ ".
- D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024) E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)
- 12.6 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.
- 12.7 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,
- 12.8 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

- (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING. 12.9 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS, UNLESS SHIMS ARE PROVIDED. ANCHORS ARE TO SECURE CONNECTED PARTS TOGETHER SNUGLY AND SECURELY.
- 12.10 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED.
- 12.11 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.
- 12.12 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.
- 12.13 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.

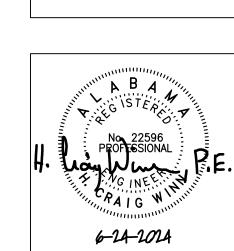
12.14 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, 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.

13.0 PREFABRICATED WALKWAY, CANOPY AND SUNSHADE

- 13.1 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES/SUNSHADES SHALL BE CONSIDERED A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.
- 13.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES/SUNSHADES SHALL BE FULLY ENGINEERED BY THE SYSTEM MANUFACTURER AND CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 13.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN OF ALL WALKWAY/CANOPY/SUNSHADE SYSTEM COMPONENTS INCLUDING. BUT NOT LIMITED TO, FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.
- 13.4 PROTECTIVE COVER WALKWAY AND PREFABRICATED CANOPY/SUNSHADE SHOP DRAWINGS SHALL BE SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL SYSTEM MEMBERS, INCLUDING COLUMNS, BEAMS, FOOTINGS, FASCIA, ETC. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 13.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES/SUNSHADES SHALL BE ATTACHED TO BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE LOAD-BEARING MASONRY WALL FOR WALKWAY/CANOPY/SUNSHADE 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 SYSTEM MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY/CANOPY/SUNSHADE TO VENEER. ANCHOR WALKWAY/CANOPY/SUNSHADE INTO LOAD-BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS

ARCHITECTS

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SHEET TITLE:

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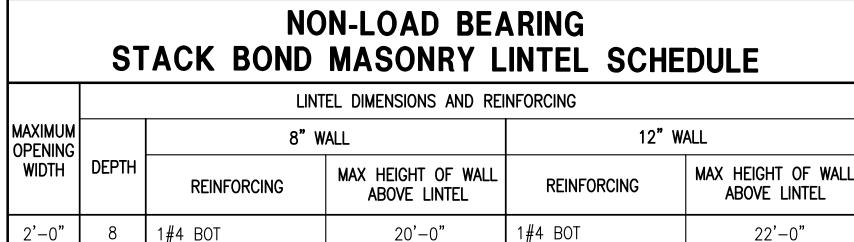
GENERAL NOTES

PROJ. MGR.: DRAWN: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO: 2 OF 16

9'-4"





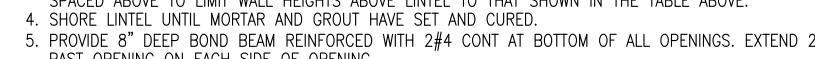
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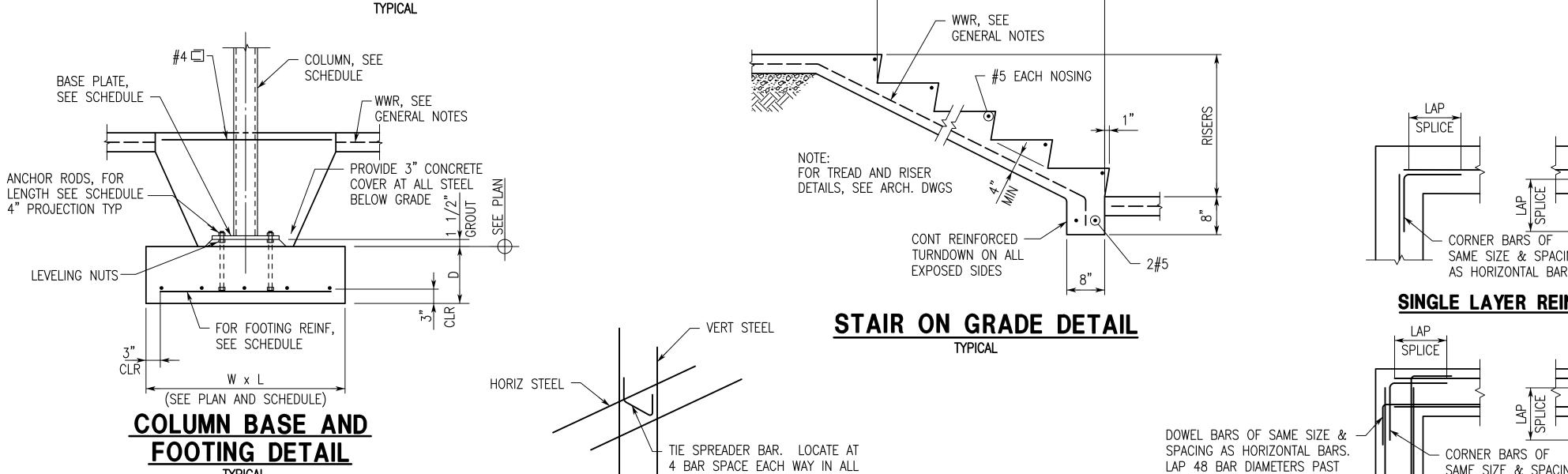
1. DO NOT USE THIS SCHEDULE IF WALL IS LOAD BEARING SUPPORTING ANYTHING OTHER THAN WALL WEIGHT

ONLY. IF WALL IS LOAD BEARING USE THE LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE

2#4 BOT

- 2#5 BOT & 2#4 TOP 1#5 BOT & 1#4 TOP 4'-0" 4'-8" 8'-0" 16 | 1#6 BOT & 1#5 TOP 15'-4" 2#5 BOT & 2#4 TOP 16'-0" 2#6 BOT & 2#4 TOP 16 | 1#7 BOT & 1#5 TOP 10'-0" 12'-0" 2#7 BOT & 2#5 TOP 1#8 BOT & 1#5 TOP 7'-4" 10'-8"
- 2. PROVIDE 2'-0" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR CONTINUOUS.
- 3. WHERE MAXIMUM HEIGHT OF WALL ABOVE LINTEL IS EXCEEDED, PROVIDE ADDITIONAL LINTELS EQUALLY
- SPACED ABOVE TO LIMIT WALL HEIGHTS ABOVE LINTEL TO THAT SHOWN IN THE TABLE ABOVE.
- 5. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#4 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 2'-0" PAST OPENING ON EACH SIDE OF OPENING.





WALLS W/TWO LAYERS OF REINF

CONTRACTOR COORDINATE W/ARCHITECT FOR ALL DEPRESSED SLAB AREAS BEFORE

1'-0" FOR EXTENTS

~~~~~----

DEPRESSED SLAB

ON GRADE DETAIL

SEE ARCH. DWGS

SLAB ON GRADE IS PLACED.

PLAN SHOWING JOINT REINFORCING

AT STRUCTURAL WALL INTERSECTION

WALL STEEL

TIE-SPREADER DETAIL

WWR, SEE

GENERAL NOTES -

TREADS

- FORMED CONCRETE WALL OR MASONRY WALL; DOWEL

OF FOOTING IS GREATER THAN 4'-0" BFF. REINFORCE

W/#6@16 O.C. IN ADDITION TO THE SPECIFIED WALL

REINFORCEMENT, UNLESS NOTED OTHERWISE

STEP FOOTING DOWN AS REQUIRED TO KEEP

FOOTING BELOW PIPING. FOR LOCATION, SEE

ON FOUNDATION PLANS, SEE PLUMBING PLANS.

FOUNDATION PLANS. FOR LOCATION NOT SHOWN

- PÍPING, CONTRACTOR

THROUGH WALL

FOOTING/FOUNDATION WALL AT PIPING

✓ 8" DEEP BOND BEAM

AT TOP OF WALL

#4 DOWEL @64, DRILL 9"

INTO SLAB AND ANCHOR

- WWR, SEE

GENERAL NOTES

W/EPOXY ADHESIVE

2#5 CONT W/

ANCHOR WALLS BY:

#3 TIES @48

INTERIOR PARTITION WALL ON

THICKENED SLAB ON GRADE DETAIL

PLAN SHOWING JOINT

REINFORCEMENT AT WALL CORNER

W/2#4 CONT

COORDINATE. PROVIDE

OVERSIZED PIPE SLEEVE

2'-0"

MOISTURE PROOF ISOLATION -

MATERIAL AROUND PIPING

CONTINUOUS STRIP FOOTING

FOR REINFORCING SEE SECTIONS -

TO ROOF OR FLOOR

STRUCTURE @ 8'-0"

MAX., SEE DETAILS ON S1.3

#4 VERT @64, LAP —

W/DOWEL 2'-8"

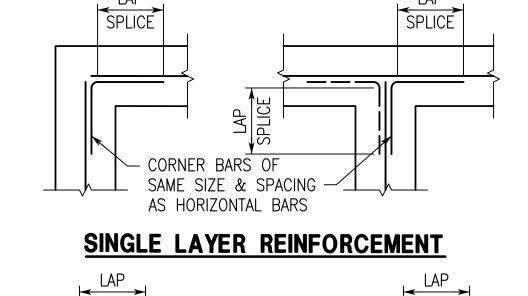
FOR LOCATION OF INTERIOR

MASONRY PARTITIONS.

SEE ARCH. DWGS

VERTICAL REINFORCING TO FOOTING W/HOOKS. MATCH WALL

THICKNESS AND REINFORCING PER SECTIONS. WHERE TOP



LOAD BEARING STACK BOND

MASONRY LINTEL SCHEDULE

4'-0" | 24 | 2#5 BOT & 2#5 TOP | 2#5 BOT & 2#5 TOP

PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS

CONTINUOUS. (JAMB BARS OF SAME SIZE AS VERTICAL WALL

SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR

SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.

PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#5 CONT AT

BOTTOM OF ALL OPENINGS. EXTEND 24" PAST OPENING ON EACH

MAXIMUM

OPENING

6'-0"

8'-0"

WIDTH |

DEPTH 8" WALL

REINFORCING BARS.)

SIDE OF OPENING.

LINTEL DIMENSIONS AND REINFORCING

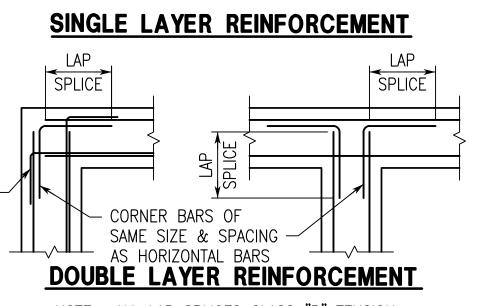
| 2#5 BOT & 2#5 TOP | 2#6 BOT & 2#6 TOP

2#6 BOT & 2#6 TOP | 2#6 BOT & 2#6 TOP

2#6 BOT & 2#6 TOP | 2#6 BOT & 2#6 TOP

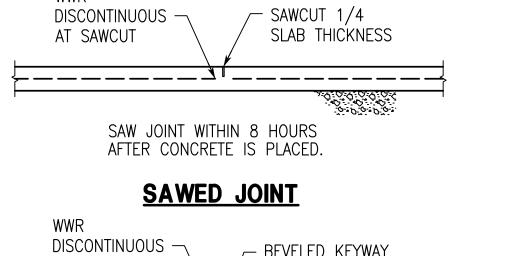
2#6 BOT & 2#6 TOP | 2#6 BOT & 2#6 TOP

12" WALL





FOOTING, SLAB OR WALL CORNER REINFORCING DETAIL



4'-0"

1#4 BOT

WWR DISCONTINUOUS — AT SAWCUT	— BEVELED KEYWAY	
\$1000000000000000000000000000000000000		5.

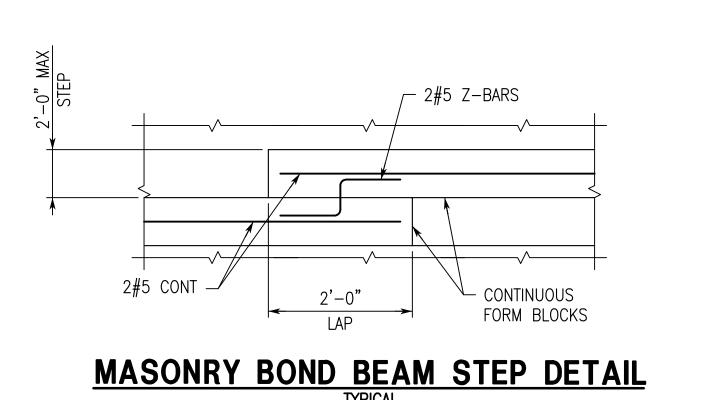
KEYED JOINT

SLAB CONTROL JOINT DETAILS

TYPICAL JOINT TYPE IS OPTIONAL

VENE	ER LINTEL SCHEDULE
MAXIMUM OPENING WIDTH	STEEL FOR EACH 4" OF WALL THICKNESS
2'-0"	L5x5x3/8 MINIMUM
4'-0"	L5x5x3/8 MINIMUM
6'-0"	L5x5x3/8 MINIMUM
8'-0"	L5x5x3/8 MINIMUM
LARGER	CONTACT ENGINEER

- 1. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS. 2. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.
- CONTRACTOR TO COORDINATE DIMENSION OF OUTSTANDING LEG WITH MINIMUM VENEER SUPPORT REQUIREMENT(S) AND WITH DETAILS INDICATED ON ARCH. DWGS.



MASONRY REINFORCING

LAP SPLICE LENGTHS

(IN.)

18.0

24.0

30.0

43.0

60.0

72.0

82.0

ACI 530 & ACI 530.1.

1. LAP SPLICE LENGTHS APPLY TO BOTH

HORIZONTAL AND VERTICAL REINFORCING.

SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH

REINFORCEMENT LARGER THAN NO. 9 BAR

(IN.)

18.0

29.0

45.0

54.0

63.0

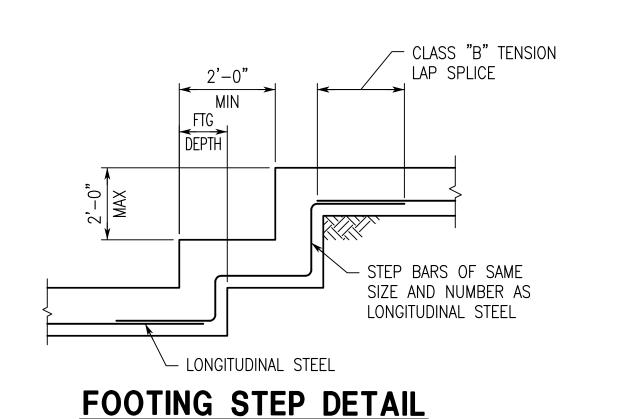
72.0

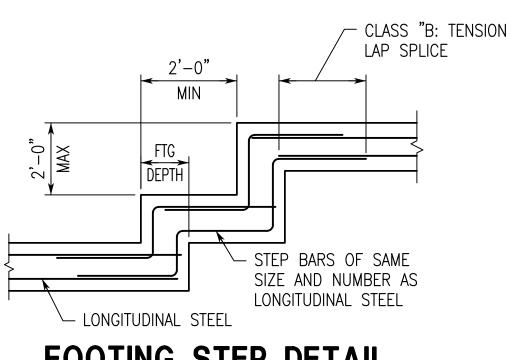
82.0

BAR SIZE CENTERED

NOTES:

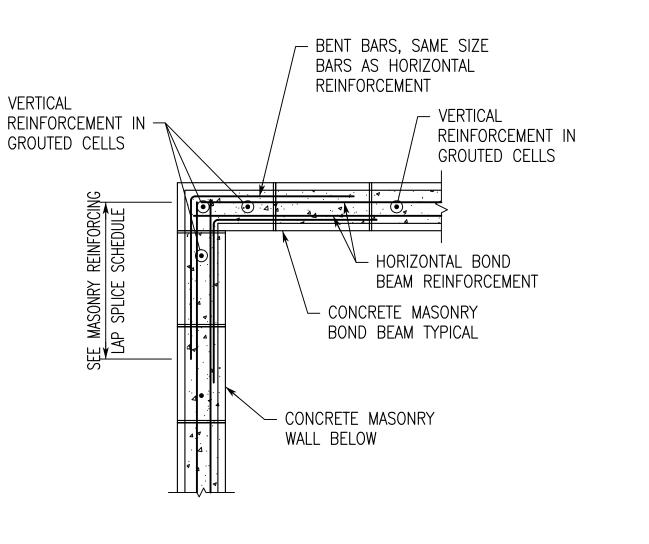
INTERSECTION OF HORIZONTAL





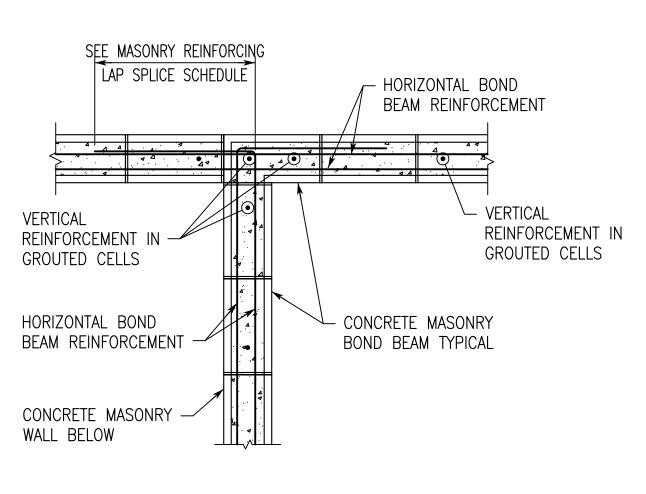


UNITS BE 2. GALV PL BENT 2", 3. FACTORY OC AND THE INTE SECTION OF HORIZONTAL JOINT REINFORCEMENT INTERLOCK COURSES VERTICAL REINFORCEMENT IN GROUTED CELLS AT TYPICAL SPACING VERTICAL REINFORCEMENT IN GROUTED CELLS AT TYPICAL SPACING WIN HORIZONTAL JO REINFORCEMEN REINFORCEMEN	ONT VERTICAL MORTAR JOINT AT INTERSECTIONS WITH TIES OR TEE JOINT	CONT HORIZONTAL JOINT REINFORCEMENT VERTICAL REINFORCEMENT IN GROUTED CELLS 3/4" AT EXT
HORIZONTAL JO REINFORCEMEN CONT HORIZONTAL	OINT VERTICAL MORTAR JOINT — IT CONT AT INTERSECTIONS WITH	∥
JOINT REINFORCEMENT CONCRETE MASONRY WALL 5/8" MIN COVER TYPE JOINT REINFORCEMENT 5/8" MIN	VERTICAL REINFORCEMENT IN GROUTED CELLS AT TYPICAL SPACING 5/8" MIN	CONT HORIZONTAL JOINT REINFORCEMENT 5/8" MIN
COVER, TYP S/O MIN 3/4" AT EXT COVER, TYP	COVER, TYP	COVER, TYP



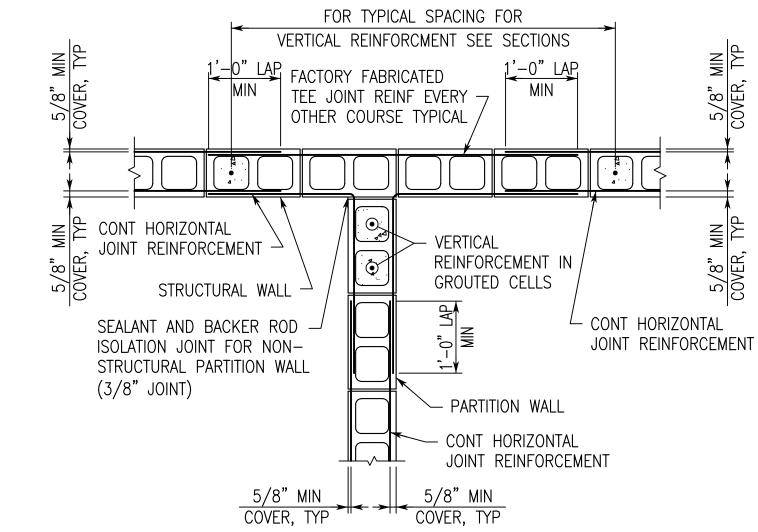
PLAN SHOWING BOND BEAM

REINFORCEMENT AT WALL CORNER



PLAN SHOWING BOND BEAM

AT STRUCTURAL WALL INTERSECTION



PARTITION WALLS ABUTTING STRUCTURAL WALLS

DRAWN: 6/24/2024 REVISIONS

HCW

6-24-2024

TYPICAL DETAILS

SHEET TITLE:

SCHOOL

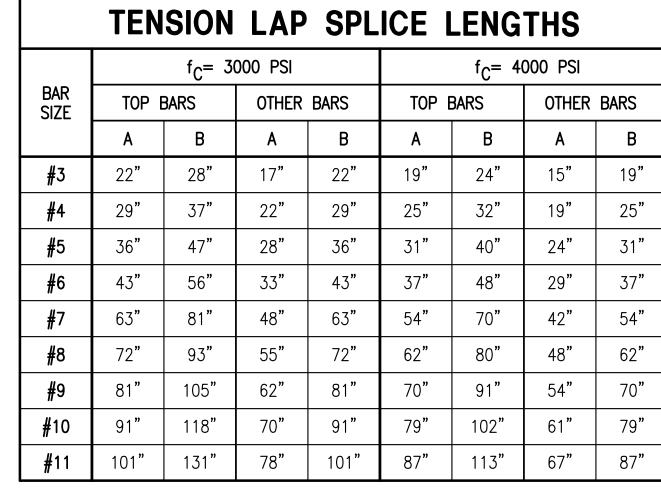
HIGH

CEN Y 11, YOF

SUMTER (SUMTER SUMTER COUNTY)

JOB NO. **24-38** SHEET NO: **S1**





TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
FOR TENSION LAP SPLICE LENGTHS FOR 3500 PSI CONCRETE,
USE LENGTHS DESIGNATED FOR 3000 PSI CONCRETE.

PIPING WEIGHTS FLUID WŢ INSULATION & TOTAL WT PER/FOOT (PLF) | PER/FOOT (PLF) | PER/FOOT (PLF) HANGERS (PLF) DIAMETER 18.90 13.80 3.00 35.80 19.00 4.00 28.60 23.90 10" 40.50 37.50 4.00 82.00 12" 54.00 108.60 49.60 5.00 125.30 54.60 65.70 87.10 154.70 62.60 5.00

FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.

ALL PIPES ASSUMED TO BE SCHEDULE 40. FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION. PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE

5. FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.

OORDINATED BY THE GENERAL CONTRACTOR WITH THE STEEL/JOIST FABRICATOR. SEE MECHANICAL/PLUMBING DRAWINGS FOR PIPING SUPPORT AND THRUST BRACING REQUIREMENTS.

- BOND BEAM, SEE SECTIONS - CONTINUOUS BOND BEAM REINFORCING, SEE SECTIONS - BUILD MASONRY SOLID STEEL BEAM BETWEEN FLANGES 4#4x BOND BEAM DEPTH BEARING PLATE (BP) W/(2) 3/4" $\phi x 16$ " +5" (24" MINIMUM LENGTH) LONG HEADED STUDS, SET EDGE OF PLATE BREAKOUT WEBS AND GROUT FLUSH TO INSIDE FACE OF BLOCK. GROUT BEARING PLATE TO PROPER ELEVATION GROUT FILL BLOCK CELLS W/GROUT FROM FOOTING TO BEAM BEARING — REINFORCE JAMB AT BEAM BEARING W/2#5 IN ADJACENT CELLS, CONT TO FOOTING BOND BEAM W/CONT REINFORCING, SEE SECTIONS BEARING PLATE SCHEDULE: **THICKNESS** LENGTH NOTE: SEE PLAN FOR 11 1/2" BEARING PLATE LOCATIONS.

BEAM BEARING DETAIL IN LINE WITH CMU WALL

THICKNESS

WALL SOLID AT HAIRPIN

BEARING PLATE SCHEDULE:

WIDTH

7 1/2" 11 1/2"

LENGTH

STEEL BEAM

BEARING PLATE (BP) W/(2)

3/4'øx16" LONG HEADED

STUDS, CENTER PLATE ON

TO PROPER ELEVATION

BLOCK. GROUT BEARING PLATE

REINFORCE JAMB AT BEAM

CELLS, CONT TO FOOTING

FILL BLOCK CELLS W/GROUT

BEARING W/2#5 IN ADJACENT -

FROM FOOTING TO BEAM BEARING —

GROUT

BEAM BEARING DETAIL PERPENDICULAR TO CMU WALL

2 BARS EACH SIDE OF JOINT 7 REINF IN GROUTED CELLS GROUT CELLS SOLID ENTIRE HEIGHT OF WALL SEE ARCH. DWGS FOR LOCATION. PROVIDE JOINT IN CMU AT ALL

1 1/2"

SEALANT TYP

3/8"

RAKE 10 DEEP —

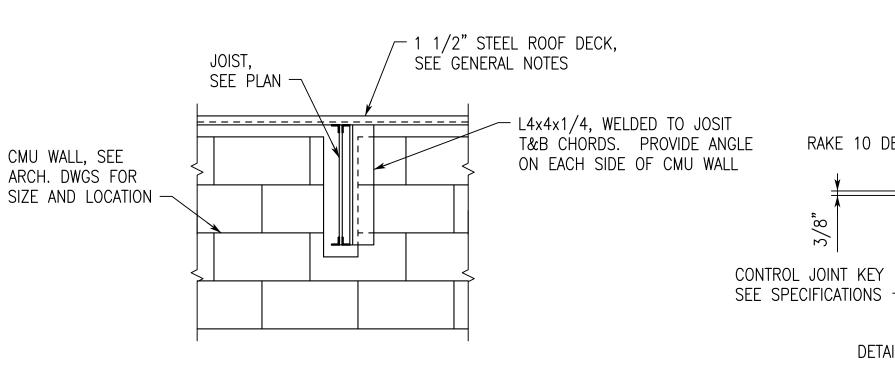
DETAIL "B" —

DETAIL "A"

MASONRY CONTROL JOINT

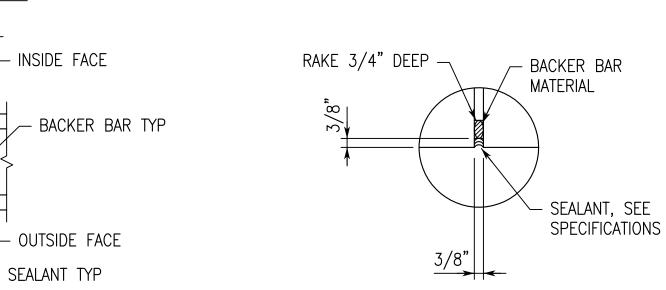
1 1/2"=1'-0"

JOINTS IN ANY BRICK. MASONRY CONTROL JOINT



CMU WALL SUPPORT DETAIL (WALL PERPENDICULAR TO JOIST)

PROVIDE WALL SUPPORTS AT EVERY JOIST WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR WALLS EXCEEDS 20'-0", UNLESS NOTED.



DETAIL "B" MASONRY CONTROL JOINT

COLUMN, SEE PLAN CONCRETE SLAB ON GRADE, SEE GENERAL NOTES	CLASS B SPLICE UNLESS NOTED SEE PLAN T/SLAB
STD HOOK —	S/2 CLAS UNL
	AN NO

CMU WALL SUPPORT DETAIL

(WALL BETWEEN PARALLEL JOISTS)

PROVIDE WALL SUPPORT EACH SIDE OF WALL @ 8'-0". PROVIDE

WALL SUPPORT WHERE CONTINUOUS WALL SPAN BETWEEN

PERPENDICULAR WALL EXCEEDS 20'-0", UNLESS NOTED.

COORDINATE SIZE &

WALL OPENING

REINFORCMENT DETAIL

L2x2x3/16

BRACING TYPICAL

8" DEEP BOND BEAM -

EXTEND REINF TO

WITHIN 2" OF TOP -

AT TOP OF WALL

W/2#4 CONT

OF WALL

(4 SIDES)

LOCATION OF OPENINGS

WITH OTHER DISCIPLINES.

NOTE: ALTERNATE POSITION OF TIE HOOKS

COLUMN

BASE PLATE BELOW

- L6x3 1/2x5/16 LLV

x0'-8" EACH SIDE

OF WALL @ 8'-0"

- CMU WALL, SEE

ARCH. DWGS FOR

SIZE AND LOCATION

COLUMN TIE DETAILS

ISOLATION JOINTS SHALL BE PLACED AT CONTRACTORS OPTION WHERE NOT SPECIFICALLY INDICATED ON PLANS.

ISOLATION JOINT DETAIL

- 1 1/2" STEEL ROOF DECK,

SEE GENERAL NOTES

TYPICAL

IN PLACING SUCCESSIVE SETS OF TIES

CONSTRUCTION JOINT

WITH BOND BREAK

AROUND SQUARE

- TYP SLAB CONTROL JOINT

COLUMN BASE AND FOOTING DETAIL

SEE PLAN

WxL (SEE PLAN)

- FOR FOOTING REINF,

DO NOT PROVIDE JOINT RETWEEN WALL AND COLUMN -	CUT FACE SHELL AS REQD AT TIES TO EXTEND TIE 1/2" BELOW TOP OF BLOCK DO NOT PROVIDE JOINT BETWEEN WALL AND COLUMN VERTICAL BARS TO HAVE 2 1/4" CLEAR COVER ALONG ALL SIDES #3 TIE, SEE SCHEDULE
DO NOT PROVIDE JOINT BETWEEN WALL AND COLUMN EXTEND HORIZONTAL JOINT REINF INTO MASONRY COLUMN VERTICAL BARS, SEE SCHEDULE. DOWEL VERTICAL BARS TO FDN 8x16	CUT FACE SHELL AS REQD AT TIES TO EXTEND TIE 1/2" BELOW TOP OF BLOCK DO NOT PROVIDE JOINT BETWEEN WALL AND COLUMN VERTICAL BARS TO HAVE 2 1/4" CLEAR COVER ALONG ALL SIDES #3 TIE, SEE SCHEDULE

MASONRY COLUMN (MC)

COLU	MN DESIGNATION	MC1	
	SIZE	8x16	
Ę	VERTICALS	4#5	
COLUMN	TIES	#3@8	
0	NOTES	1,2,3,4	
2. DO WIT 3. EX	: E COLUMN TIE DET WEL VERTICAL STE TH STANDARD HOOI TEND VERTICALS FI OVIDE FIRST TIE A	EL INTO FOOTING K. LAP DOWELS ULL HEIGHT OF	THE THICKNES WITH VERTICALS WALL, UNLESS I

IESS OF THE FOOTING MINUS 3" ALS 72 BAR DIA.

MASONRY COLUMN SCHEDULE (MC)

RST TIE BELOW SLAB/TRUSS/ROOF BEARING AT 4" AND SPACE REMAINING TIES AT SPECIFIED SPACING.

FC	OOTING S	CHEDU	LE
F00	TING DESIGNATION	F3.0	
FOOLING	SIZE (LxW) DEPTH (D) REINF EW (BOT) NOTES	3'-0"x3'-0" 1'-0" 4#5	

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

H. PROFESIONAL PRO
--

SCHOOL

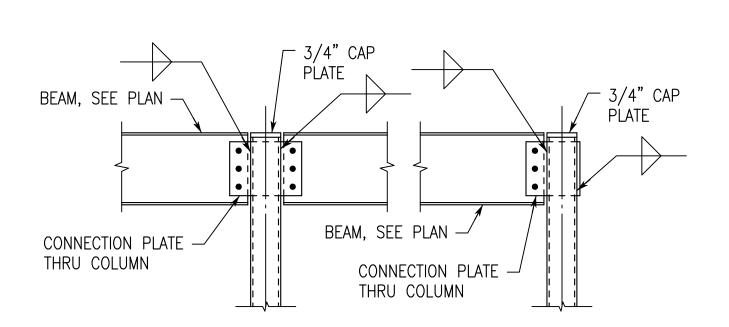
HIGH

ELEMENTARY ADDITION TO
SUMTER CENTRAL H
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATIO

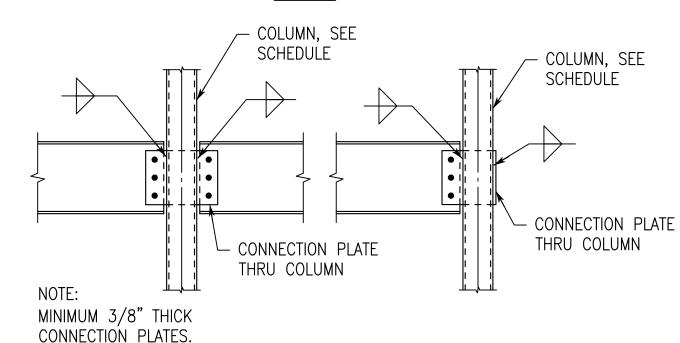
SHEET TITLE: TYPICAL DETAILS

PRC	J. MGR.:	HCW
DRA	WN:	ABS
DAT	E:	6/24/2024
REV	ISIONS	
		6/24/2024

JOB NO. **24-38** SHEET NO:

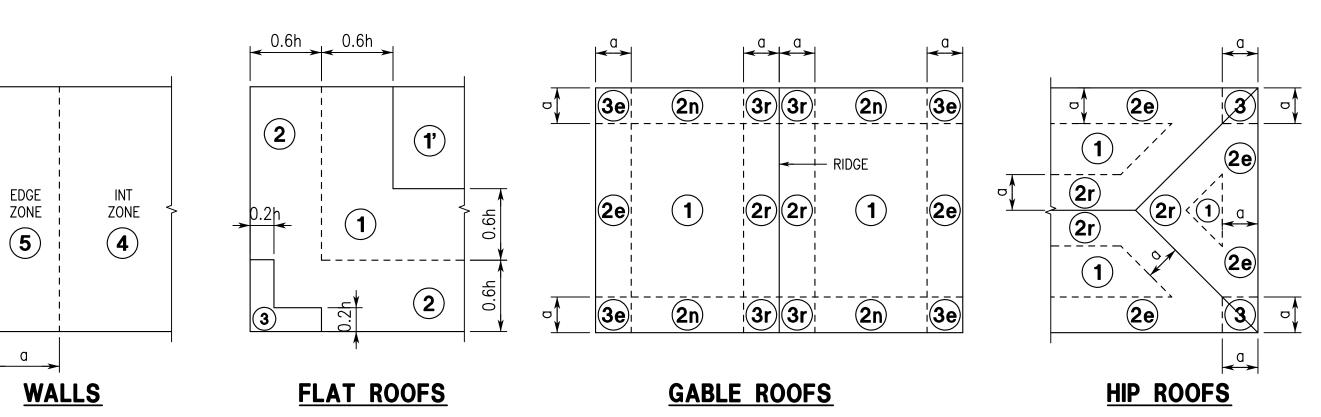


ROOF



FLOOR

BEAM/COLUMN CONNECTION DETAILS



WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

CONTRACTOR AND JOIST MANUF TO 3" OR MORE COORDINATE DISTANCE AND CONCENTRATED LOAD AND PROVIDE DETAILS ON JOIST SHOP DRAWINGS. CONCENTRATED LOAD ∕— Ç PANEL POINT JOIST, CONCENTRATED LOAD L2x2x1/4 (EXTEND FROM LOAD TO NEAREST PANEL 3" OR MORE POINT ON OPPOSITE CHORD) $^{\perp}$ PANEL POINT EC<u>CENTRICALLY</u> **CONCENTRICALLY LOADED JOIST**

JOIST MANUF TO VERIFY 3" DIMENSION AND

MAX CONCENTRATED LOAD FOR T&B CHORD

REINFORCEMENT REQUIREMENTS. GENERAL

JOIST REINFORCEMENT DETAIL

RECOMMENDED

PLAN ROOF EQUIPMENT, SEE MEP DRAWINGS. ATTACHMENT TO CURB -ROOF EQUIPMENT CURB, - ROOF EQUIPMENT, SEE MEP AND STRUCTURE BY OTHERS BY OTHERS. ATTACHMENT DRAWINGS. ATTACHMENT TO CURB ROOF EQUIPMENT CURB, TO STRUCTURE BY OTHERS -AND STRUCTURE BY OTHERS BY OTHERS. ATTACHMENT - L5x5x5/16 CONT TO STRUCTURE BY OTHERS --L5x5x5/16 CONT - STEEL ROOF DECK IN STEEL ROOF DECK IN -ALL AREAS EXCEPT - STEEL ROOF DECK IN ALL AREAS EXCEPT ROOF OPENINGS ALL AREAS EXCEPT ROOF OPENINGS ROOF OPENINGS 3 SIDES \ TYP / L4x4x1/4x0'-7" TYPICAL - L2x2x1/4 STRUT AT JOIST PANEL POINT SECTION (B) PROVIDE L4x3x1/4 LLH FRAMES AT ALL WATER/POWER BOXES AT ROOF DRAINS SUPPORT, PROVIDE L2x2x1/4 AT JOIST TOP CHORD. CONTRACTOR COORDINATE ROOF EQUIPMENT FRAMES WITH EQUIPMENT MANUFACTURER. DETAIL IS SCHEMATIC DEPICTION AND OTHER CONFIGURATIONS MAY BE REQUIRED.

CURB LINE REINF JOIST

L4x3x1/4 LLH TYPICAL.

FOR SIZE AND LOCATION OF

OPENING, SEE MECH DWGS

PER SECTION B -

L4x3x1/4 LLH W/

L5x5x5/16 CONT AT

MECH UNIT SUPPORTS

CURB LINE

REINF JOIST

PER SECTION B

SEE PLAN -

4. FASTEN STEEL ROOF DECK TO ALL ANGLES PER DECK FASTENING

ROOF EQUIPMENT FRAME DETAIL TYPICAL AT ALL OPENINGS IN ROOF LARGER THAN 8"

1 1/2" STEEL ROOF DECK, — 1 1/2" STEEL ROOF DECK, \neg SEE GENERAL NOTES SEE GENERAL NOTES AND/OR PLAN NOTES AND/OR PLAN NOTES WELDS OR FASTENERS AT 8" OC MAXIMUM, SEE DECK FASTENING PATTERN IN GENERAL NOTES AND/OR PLAN NOTES 1. UP TO 8" - 0.045" (18 GA) MINIMUM PLATE THICKNESS.

ROOF DECK PENETRATIONS

2. OVER 8" - PROVIDE ROOF ÉQUIPMENT FRAME AT OPENING

PER TYPICAL DETAIL.

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

			` '		
	EFFECTIVE	122 MPH VELOCITY (3-SEC. GUST)			
H = 13'-6" 0.25:12 Roof Slope	WIND AREA (FT ²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge) -39.6 -37.0 -33.5 -30.9 -28.3	
	10	29.7	-32.2	-39.6	
	20	28.4	-30.8	-37.0	
	50	26.6	-29.1	-33.5	
	100	25.3	-27.8	-30.9	
	200	24.0	-26.4	-28.3	
	500	22.3	-24.7	-24.7	

NOTES:

- 1. WIDTH OF EDGE STRIP 'a' = 5'-5".
- 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.

GYMNASIUM COMPONENTS AND CLADDING WIND LOADS FOR WALLS (DSE)

CLADDING	WIND LOADS FOR WALLS (PSF)					
	EFFECTIVE	122 MPH VELOCITY (3-SEC. GUST)				
H = 34'-0" 3.75:12 Roof Slope	WIND AREA (FT²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)		
	10	38.5	-41.8	-51.6		
	20	36.8	-40.0	-48.1		
	50	34.5	-37.7	-43.6		
	100	32.8	-36.0	-40.1		
	200	31.0	-34.2	-36.6		
	500	28.7	-32.0	-32.0		

- WIDTH OF EDGE STRIP 'a' = 7'-6".
- 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)										
122 MPH VELOCITY (3-SEC. GUST)					OVER	HANG				
H = 13'-6" 0.25:12 Roof Slope	EFFECTIVE WIND AREA (FT ²)	Positive Max. Net Pressure 'p' (PSF)	Zone 1' (Int.)	Zone 1 (Int.)	Zone 2 (Edge)	Zone 3 (Corner)	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	-92.9	-46.7	-63.2	-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	-44.8	-49.7	-64.2	
	100	16.0	-29.7	-40.4	-53.6	-63.8	-44.0	-43.8	-54.0	
	200	16.0	-25.6	-37.0	-49.2	-55.0	-36.9	-38.0	-43.8	
	500	16.0	-20.1	-32.4	-43.4	-43.4	-27.5	-30.2	-30.2	

- ANGLE OR BENT

RELATED SECTIONS

PLATE, SEE

ANGLE OR BENT PLATE

SPLICE DETAIL

TYPICAL AT ALL SPLICES

- 1. WIDTH OF EDGE STRIP 'a' = 5'-5".
- 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 CALCULATIONS
- FOR ROOF JOISTS 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.

GYMNASIUM COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)										
122 MPH VELOCITY	(3-SEC. GUST)			ROOF				OVER	HANG	
H = 34'-0" 3.75:12 Roof Slope	EFFECTIVE WIND AREA (FT²)	Positive Max. Net Pressure 'p' (PSF)	Zone 1 & 2e (Int.)	Zone 2n, 2r, & 3e (Edge)	Zone 3r (Corner)		Zone 1 & 2e (Int) - Max. Net Pressure 'p' (PSF)	Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)	Zone 3r (Corn Max. Net Pressure ' (PSF)
	10	23.4	-71.2	-103.8	-123.4		-81.6	-114.3	-133.9	-153.4
	20	21.0	-71.2	-89.8	-105.7		-81.6	-103.7	-115.6	-129.9
	50	18.0	-43.3	-71.2	-82.3		-63.0	-89.8	-91.4	-98.7
	100	16.0	-22.2	-57.1	-64.6		-49.0	-79.2	-73.1	-75.1
	200	16.0	-22.2	-43.0	-64.6		-49.0	-68.7	-54.9	-75.1

-64.6

-49.0

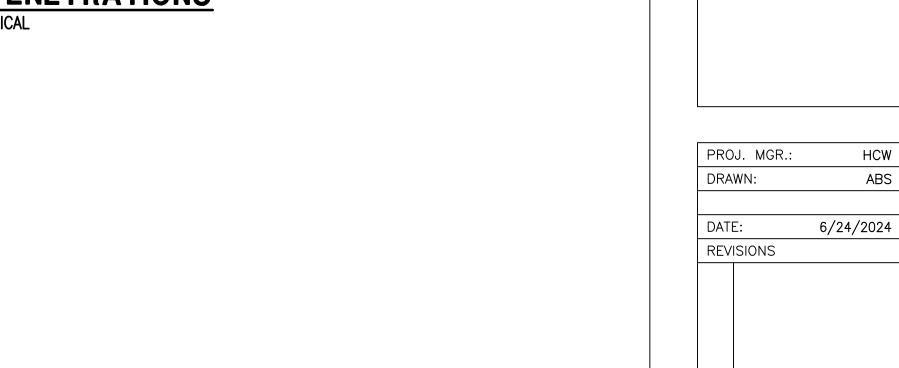
-65.3

-38.5

- WIDTH OF EDGE STRIP 'a' = 7'-6".
- 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.

-22.2

- 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. METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR CALCULATING WIND UPLIFT PRESSURES AND MINIMUM DEAD
- LOADS FOR METAL BUILDING COMPONENTS AND CLADDING.
- 6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.



SDG

LATHAN

ARCHITECTS

SCHOOL

DDITION TO
CENTRAL HIGH S
AY 11, YORK, AL 36925
Y BOARD OF EDUCATION

SUMTER SUMTER SUMTER SUMTER COUNTY I

STRUCTURAL DESIGN GROUP

300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200

- PROVIDE SUPPLEMENTAL

EQUIPMENT MAY NOT

ALIGN OVER JOIST

ANGLES WHERE

Job Number 24-109

fax 205-824-5280

REINF JOIST

- STEEL ROOF DECK IN

ALL AREAS EXCEPT

ROOF OPENINGS

PER SECTION

JOB NO. **24-38** SHEET NO:

SHEET TITLE:

TYPICAL DETAILS

COLUMN HAIRPIN DETAIL

NOTE: HAIRPIN TO BE ONE CONTINUOUS PIECE

ANCHOR ROD EMBEDMENT LENGTHS MIN EMBEDMENT BOLT DIA 3/4"

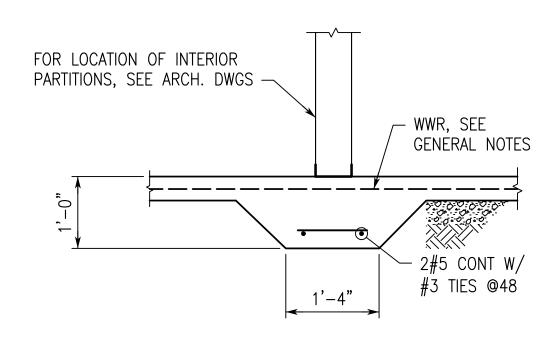
1 1/4"

1 1/2"

ROD INFORMATION FROM METAL BUILDING MANUFACTURER PRIOR TO MATERIAL ORDER AND FABRICATION.

15"

18"



INTERIOR STUD WALL ON THICKENED SLAB ON GRADE DETAIL

WALL STUD,

SIZE AND GAGE

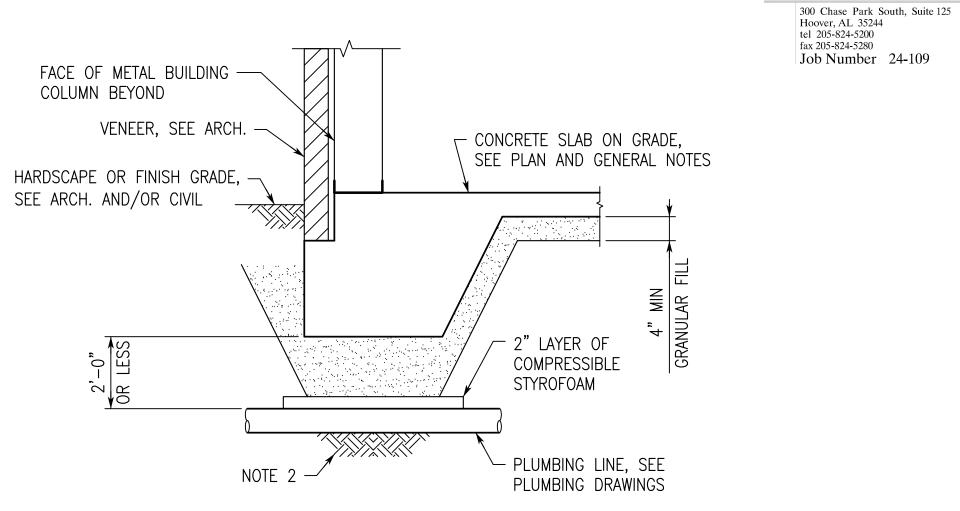
SAME SIZE AND GAGE TO MATCH -

1'-6" MIN LONG STUD BLOCK

WALL STUD (UNPUNCHED)

SEE WALL SECTION FOR -

1#10-16 SCREW AT EACH FLANGE



- 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 TURN DOWN FOOTING

(IF T/LINE IS LESS THAN 4'-6 BFF")

CAP OPENING SIDE OF JAMB —

FULL HEIGHT JAMB STUDS. -

1#10-16 SCREW AT EACH FLANGE -

METAL STUDS,

SEE ARCH.

DOOR JAMB ANCHORAGE

- DEEP LEG STUD TRACK.

WELD OR MECHANICALLY FASTEN TO STEEL BEAM

STUD WALL ANCHORAGE

TO STEEL BEAM

MEMBER SIZES AS REQD

W/TRACK ATTACHED

W/1#10-16 SCREW

@16"IN EACH LEG

PER DESIGN

METAL BUILDING COLUMN REACTIONS (KIPS) COLLATERAL **ROOF LIVE** WIND E-W WIND N-S EQ E-W EQ N-S COLUMN **DESIGNATION** V -3.0 6.6 -3.0 +7.0/-7.0 +4.0/-5.8 0.4 -10.5 +1.9/-1.9 | +1.8/-1.8 | +1.9/-1.9 +3.3/-3.3 A1, A4, E1, E4 2.8 6.6 B1, B4 ** 4.8 -6.5 19.4 -6.5 +19.3/-19.3 +6.0/-20.8 10.3 -30.5 +1.9/-1.9 | +1.8/-1.8 +1.9/-1.9 +3.3/-3.3 19.4 A2, A3, E2, E3 2.0 +9.0/-9.0 +1.0/-1.0

** FRAME LINES B-D ARE IDENTICAL

(2) HIT X-U-0.157"ø HILTI

AND AS REQD PER DESIGN

ANCHORS W/1 1/4"

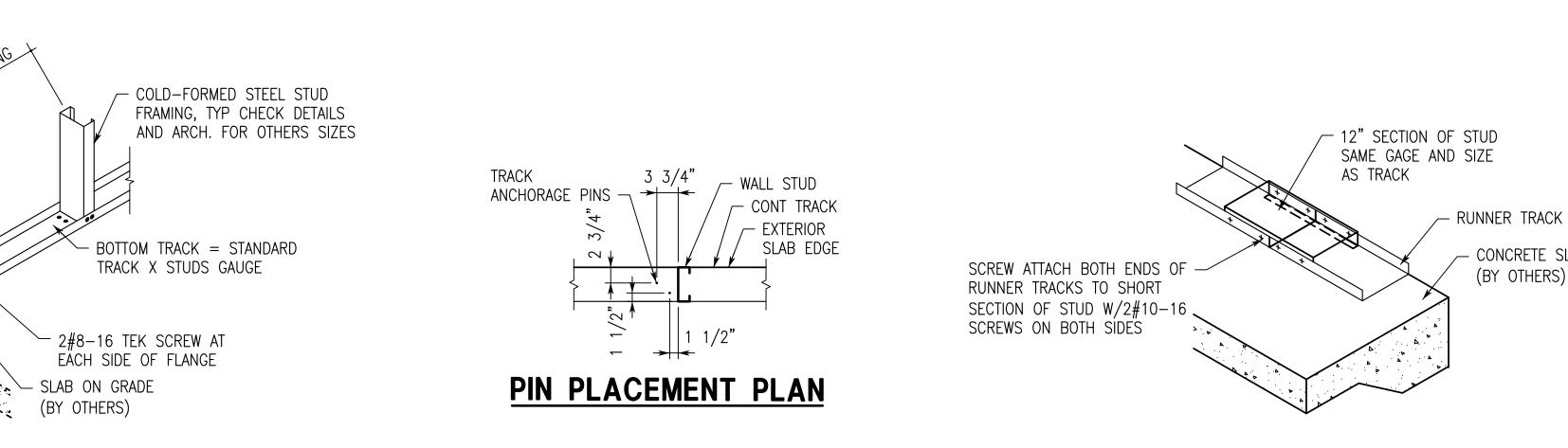
EMBED AT ÉACH STUD

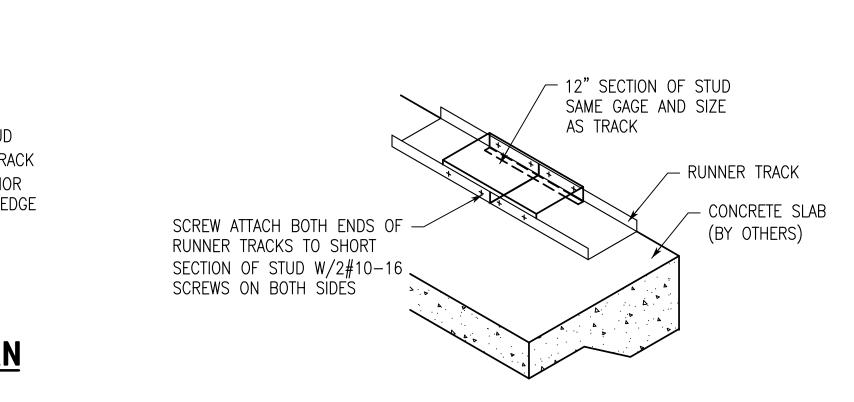
- BEFORE INSTALLATION OF FOUNDATIONS, METAL BUILDINGS SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON PRELIMINARY METAL BUILDING REACTIONS GENERATED BY STRUCTURAL DESIGN GROUP, INC. AND SHOWN ABOVE. DIFFERENCES IN PRELIMINARY & ACTUAL REACTIONS MAY REQUIRE ADJUSTMENTS TO THE FOUNDATION SIZES AFTER REVIEWING THE FINAL METAL **BUILDING COLUMN REACTIONS**
- INDICATE FORCES ACTING TOWARDS AND AWAY FROM THE CENTER OF THE BUILDING, RESPECTIVELY
- 3. LATERAL FORCES SHOWN ARE "MWFRS" FORCES AND ARE ULTIMATE LEVEL FORCES.

SLAB CONNECTION DETAIL

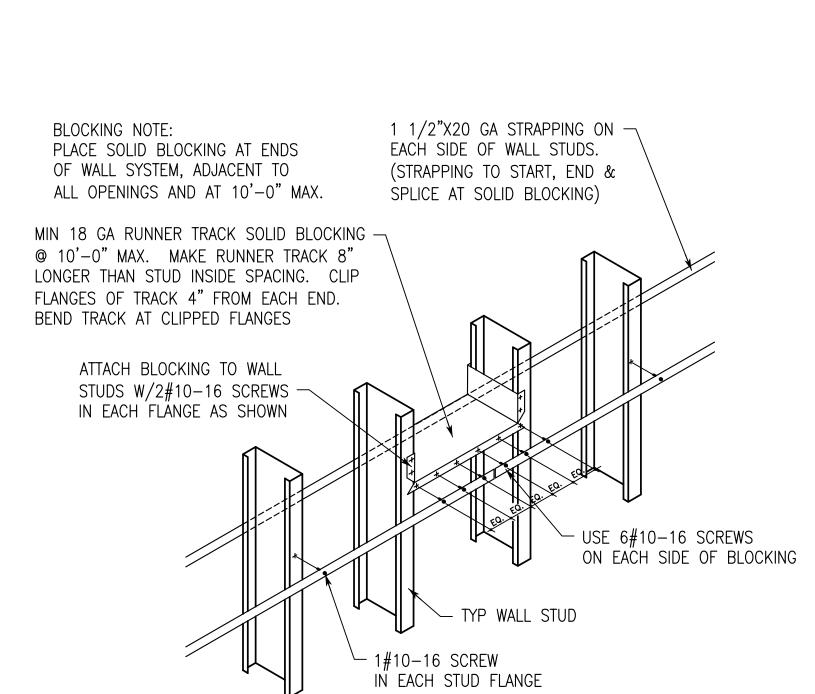
(OR EQUAL) PER STUD

JAMB STUD GROUP CONNECTION





BOTTOM TRACK SPLICE REINFORCEMENT AT STUD END



WHERE FIELD CUTS CAUSE PUNCHOUT

INTERSECTION REINFORCE STUD AS

SHOWN FOR SCREW ATTACHMENT.

TO OCCUR AT STUD/RUNNER

- #10-16 SCREWS

1" FROM PUNCH MIN

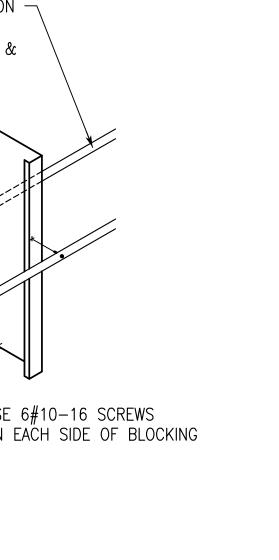
SCREW QUANTITY AS REQD PER DESIGN

RUNNER TRACK

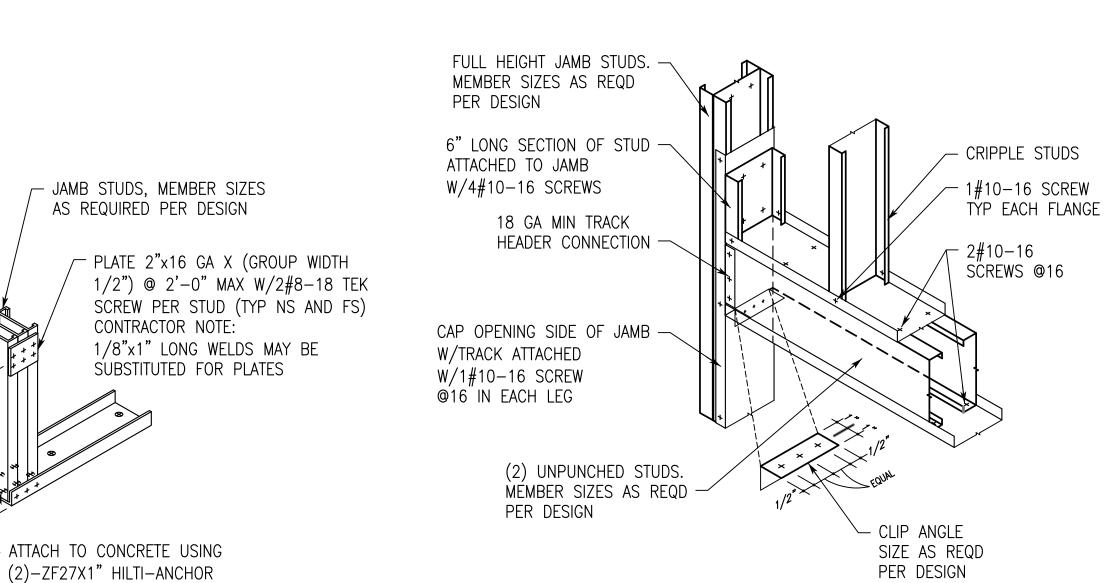
- CONCRETE SLAB

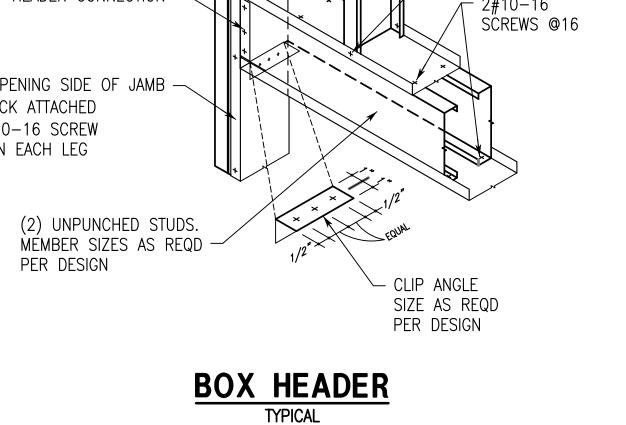
(BY OTHERS)

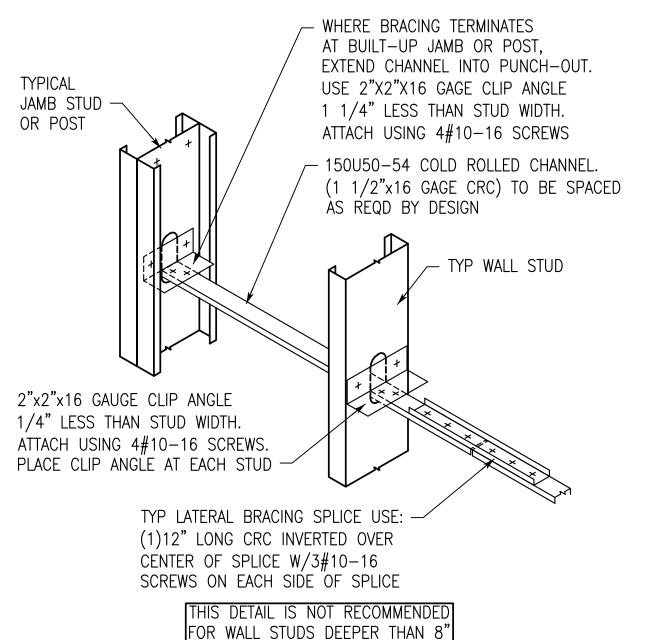
SPACE SCREWS 1"



STRAP BRIDGING LATERAL BRACING







STUD BRIDGING WITH BRIDGING CLIP TYPICAL

SUMTER OUNTY ESUMTER COUNTY E -+--+ TOP VIEW - ATTACH TRACK END TO SLAB USING: (4) 0.145"Ø HILTI X-DNI PDF'S $\hat{W}/1$ 1/2" MIN EMBED. LOCATED AS SHOWN ABOVE. (FASTENER SIZE & QUANTITY AS REQD PER DESIGN) - RUNNER TRACK CONCRETE SLAB

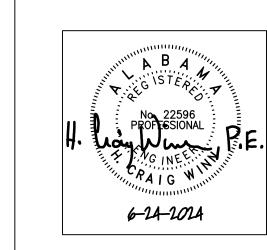
(BY OTHERS)

SDG

LATHAN

ARCHITECTS

STRUCTURAL DESIGN GROUP



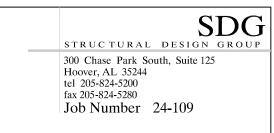
HIGH

CENTY TO YOF

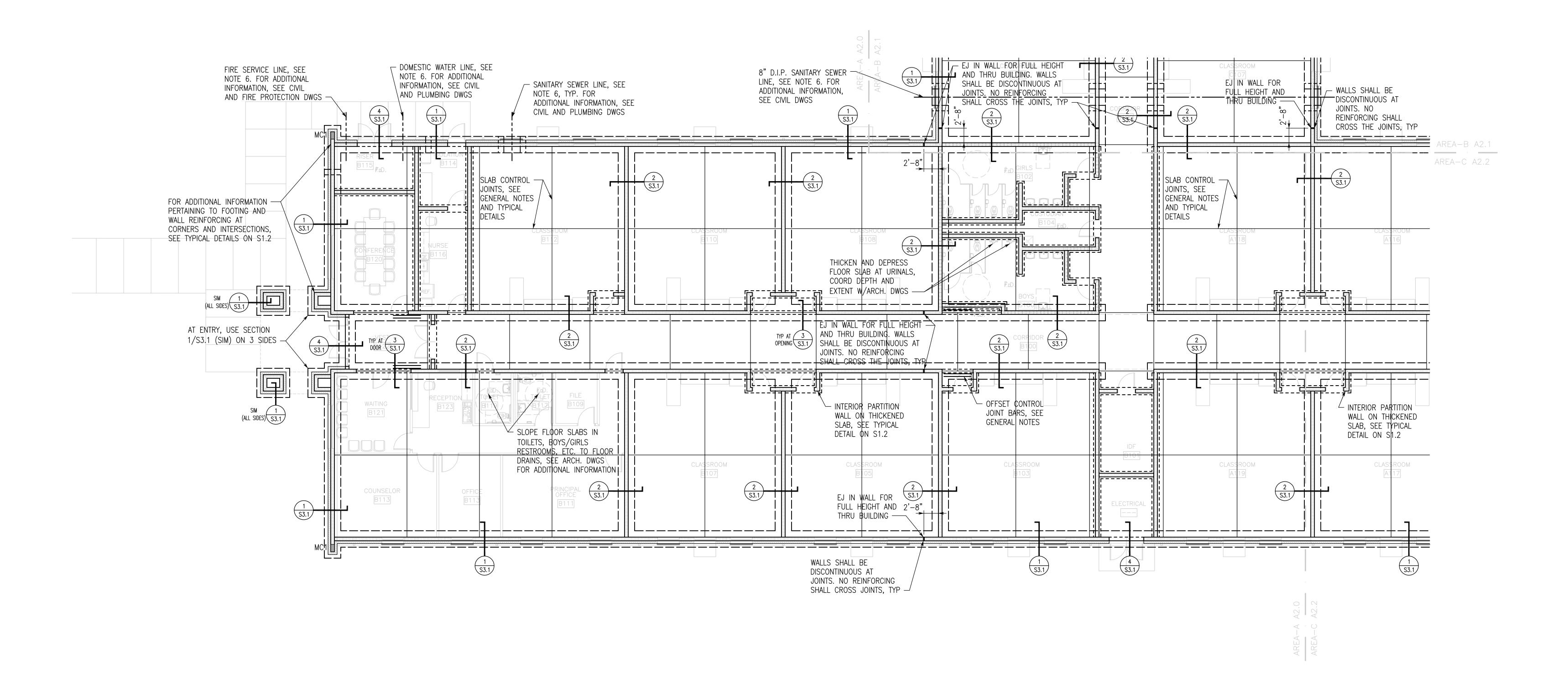
SHEET TITLE: TYPICAL DETAILS

PROJ. MGR.: HCW DRAWN: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO: **S1**





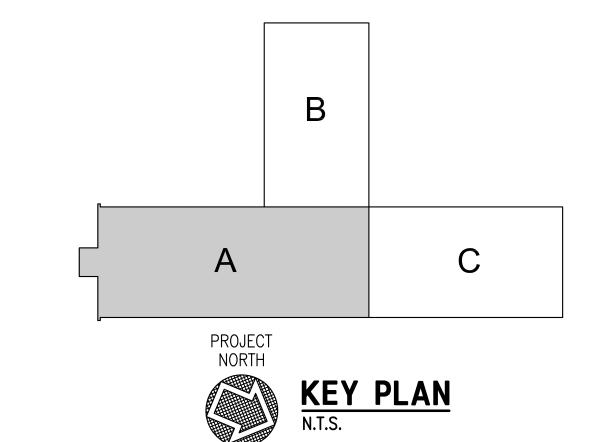




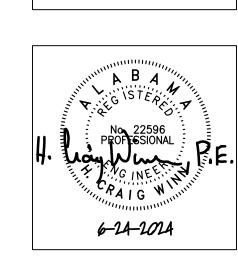
PARTIAL FOUNDATION PLAN - AREA A

- FINISH FLOOR (TOP OF SLAB) ELEVATION (FFE) 177.15', UNLESS NOTED.
- TOP OF FOOTING ELEVATION -2'-0", UNLÈSS NOTED.
 FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS. FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION
- OF ALL (EXTERIOR & INTERIOR) FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.
- FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
- MC# INDICATES MASONRY COLUMN. SEE SHEET S1.3 FOR ADDITIONAL INFORMATION. C# INDICATES STEEL OR CONCRETE COLUMN. SEE SCHEDULE ON S1.3 AND COLUMN BASE AND
- FÖOTING DETAIL ON S1.2 AND S1.3.
- 10. F# INDICATES CONCRETE SPREAD FOOTING. SEE SCHEDULE ON S1.3 AND COLUMN BASE AND FÖOTING DETAIL ON S1.2 AND S1.3.
- 11. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS. 12. FOR LOAD BEARING AND NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER

PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.



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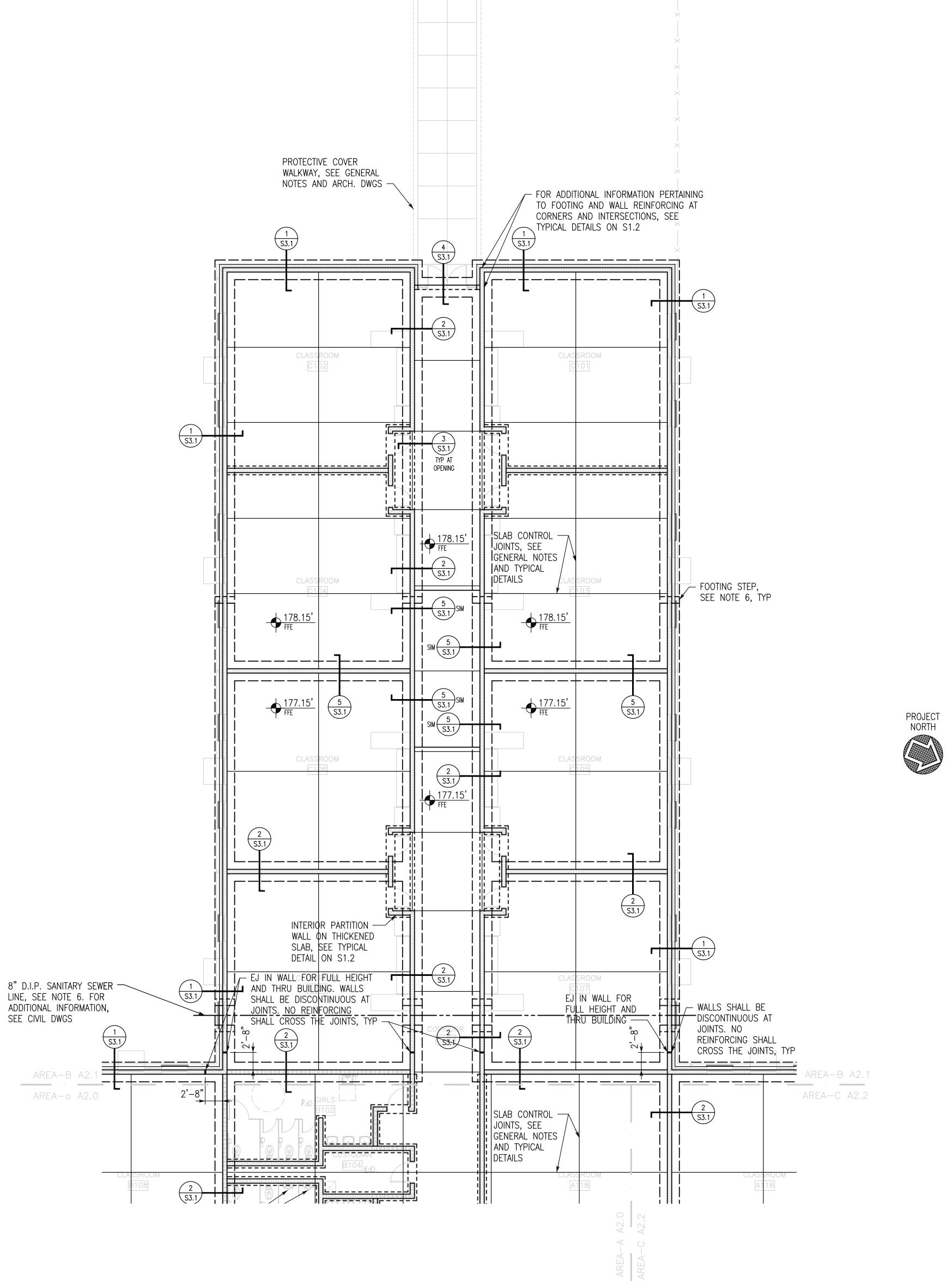


SHEET TITLE: PARTIAL FOUNDATION PLAN - AREA A

PROJ. MGR.: HCW DRAWN: 6/24/2024 REVISIONS

> JOB NO. **24-38** SHEET NO:





PARTIAL FOUNDATION PLAN - AREA B

FINISH FLOOR (TOP OF SLAB) ELEVATION (FFE) 177.15', UNLESS NOTED.

TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED.

FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.

GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS. 6. FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL (EXTERIOR & INTERIOR) FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.

7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION

CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.

8. MC# INDICATES MASONRY COLUMN. SEE SHEET S1.3 FOR ADDITIONAL INFORMATION. 9. C# INDICATES STEEL OR CONCRETE COLUMN. SEE SCHEDULE ON S1.3 AND COLUMN BASE AND

FÖOTING DETAIL ON S1.2 AND S1.3. 10. F# INDICATES CONCRETE SPREAD FOOTING. SEE SCHEDULE ON S1.3 AND COLUMN BASE AND

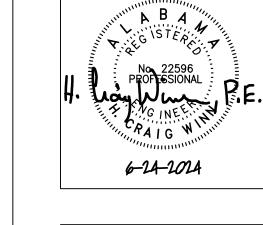
11. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS. 12. FOR LOAD BEARING AND NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER

PROJECT NORTH

KEY PLAN N.T.S.

PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.

FÖOTING DETAIL ON S1.2 AND S1.3.

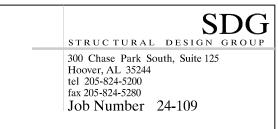


SUMTER COUNTY E

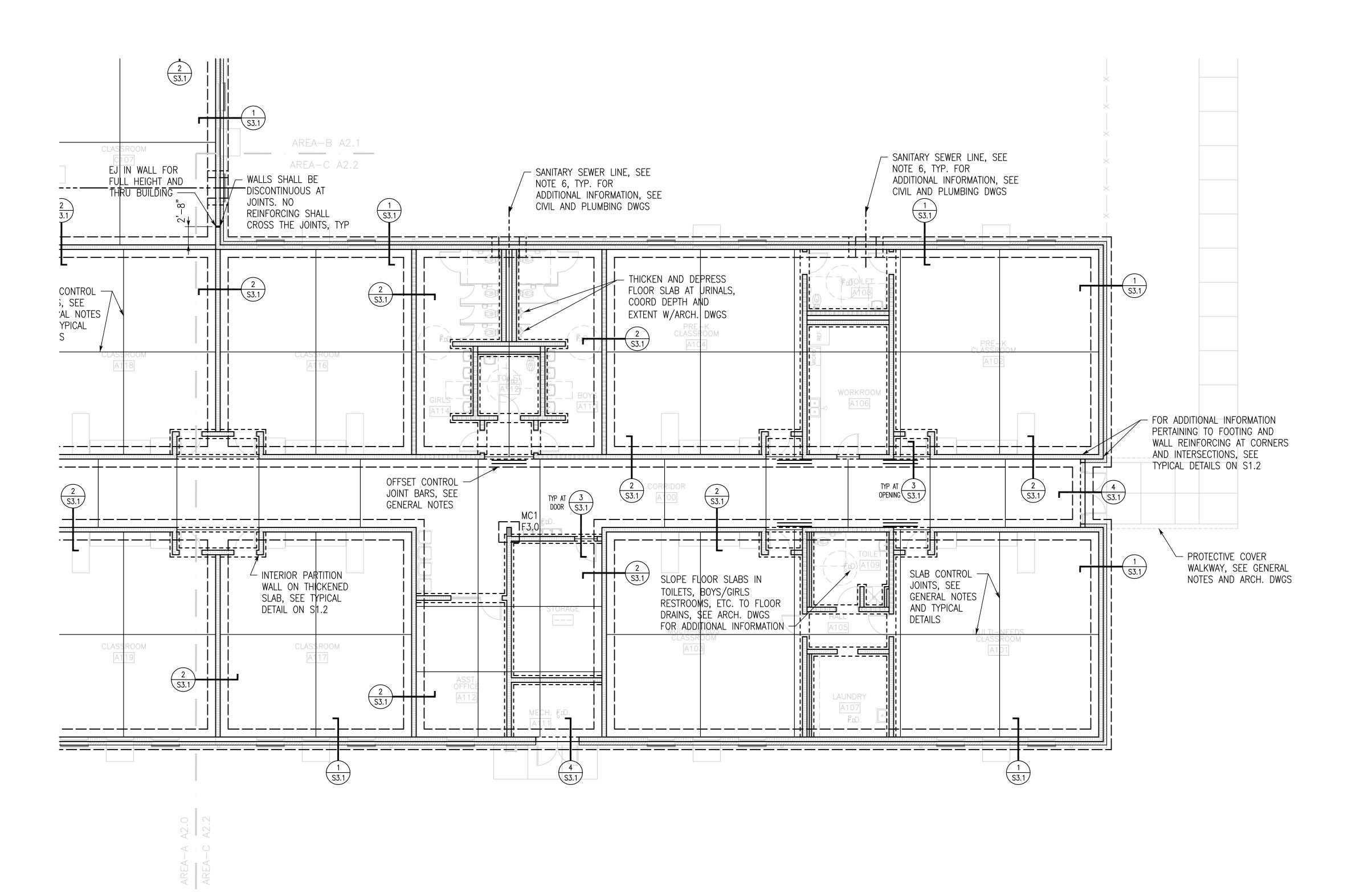
SHEET TITLE: PARTIAL FOUNDATION PLAN - AREA B

PROJ. MGR.: HCW DRAWN: 6/24/2024 REVISIONS

JOB NO. **24-38**









PARTIAL FOUNDATION PLAN - AREA C

1. FINISH FLOOR (TOP OF SLAB) ELEVATION (FFE) 177.15', UNLESS NOTED.

PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.

- TOP OF FOOTING ELEVATION -2'-0", UNLÈSS NOTED.
 FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
 FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- 5. GENERAL CONTRACTOR SHALL COORDINATÉ TILE JOINT LOCATIONS WITH CONTROL JOINTS.
 6. FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL (EXTERIOR & INTERIOR) FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY
- DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.

 7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION
- CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
- 8. MC# INDICATES MASONRY COLUMN. SEE SHEET S1.3 FOR ADDITIONAL INFORMATION.
 9. C# INDICATES STEEL OR CONCRETE COLUMN. SEE SCHEDULE ON S1.3 AND COLUMN BASE AND
- FÖOTING DETAIL ON S1.2 AND S1.3.

 OF HUNDICATES CONCRETE SPREAD FOOTING SEE SCHEDULE ON S1.3 AND COLUMN BASE AND
- 10. F# INDICATES CONCRETE SPREAD FOOTING. SEE SCHEDULE ON S1.3 AND COLUMN BASE AND FOOTING DETAIL ON S1.2 AND S1.3.
- 11. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS. 12. FOR LOAD BEARING AND NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER

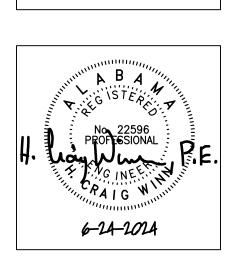
A C

PROJECT NORTH

KEY PLAN

N.T.S.

SUMTER CENTRAL HIGH SCHOOL
3878 US HIGHWAY 11, YORK, AL 36925



SHEET TITLE:
PARTIAL
FOUNDATION PLAN
- AREA C

PROJ. MGR.: HCW
DRAWN: ABS

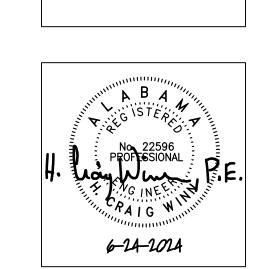
DATE: 6/24/2024
REVISIONS

JOB NO. 24-38

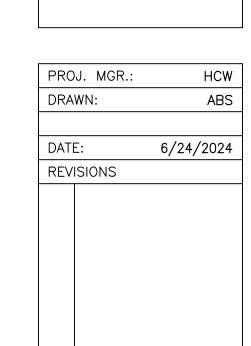
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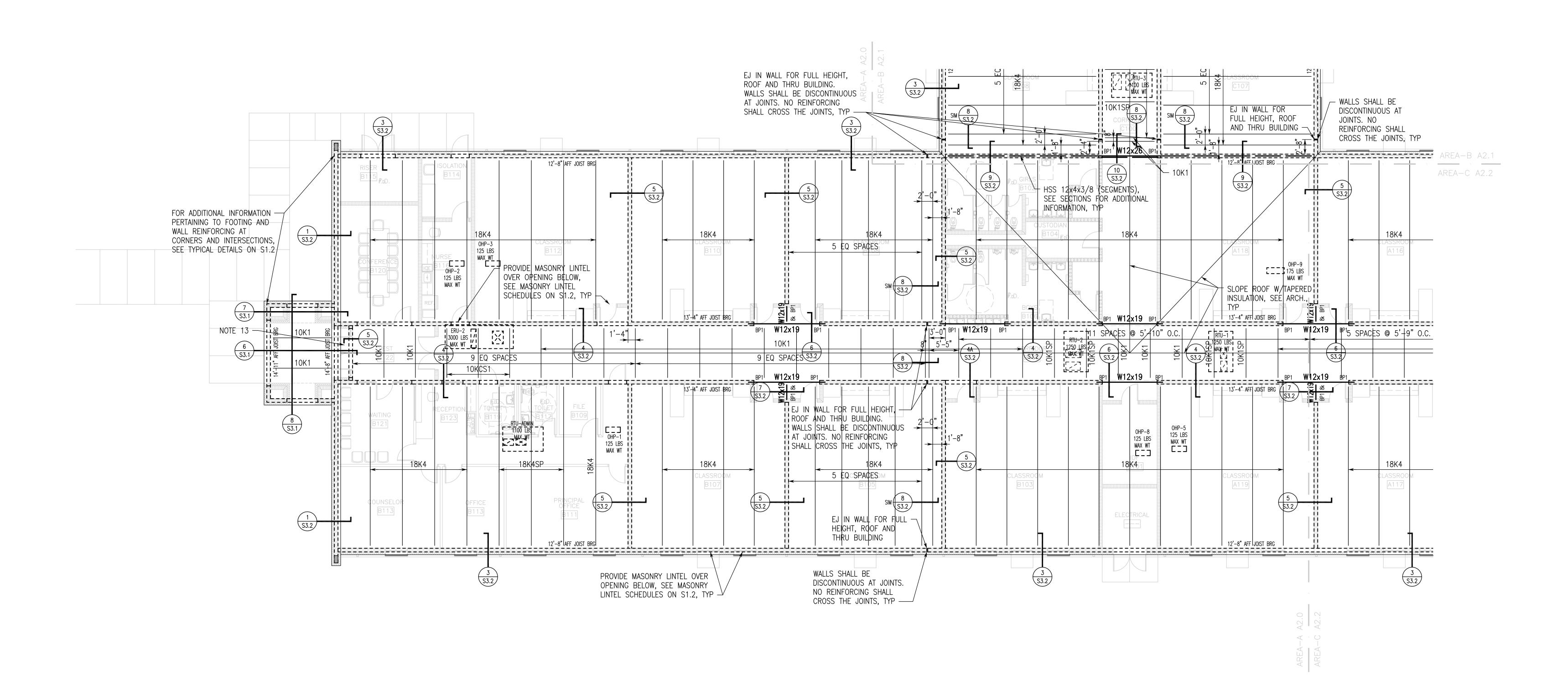
SHEET TITLE:
PARTIAL ROOF
FRAMING PLAN AREA A



JOB NO. 24-38
SHEET NO:
S2.3
10 OF 16

PROJECT NORTH

KEY PLAN





PARTIAL ROOF FRAMING PLAN - AREA A

- TOP OF STEEL (JOIST BEARING) ELEVATION 177.15' FFE, SEE PLAN AND/OR SECTIONS.
 ROOF SYSTEM: 1 1/2" STEEL ROOF DECK, 20 GAGE, ON STEEL JOISTS AT 6'-0" MAXIMUM ON CENTER (UNLESS NOTED OTHERWISE), SEE GENERAL NOTES. ANCHOR METAL DECK TO JOISTS WITH #12 SCREWS IN 36/4 PATTERN WITH 2#10 SIDELAP SCREWS
- BETWEEN JOISTS."

 3. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.

 4. SPACE STEEL JOISTS EQUALLY BETWEEN FACE OF WALLS, UNLESS NOTED.
- 5. EQUIPMENT LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS WITH THE JOIST MANUFACTURER. DO NOT SCALE FROM THIS DRAWING. PROVIDE ROOF EQUIPMENT FRAME AT ALL MECHANICAL UNITS. SEE DETAIL ON S1.4.
- 6. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS, SEE TYPICAL DETAILS
- ON 51.3.

 7. AT JOISTS DESIGNATED "SP", JOIST MANUFACTURER SHALL DESIGN JOISTS FOR 25 PSF DEAD LOAD AND 20 PSF LIVE LOAD PLUS ANY ADDITIONAL LOADS SHOWN ON PLANS, NOTED IN PLAN NOTES,
- AND/OR SHOWN/NOTED IN SECTIONS. LIMIT DEAD LOAD DEFLECTION OF JOISTS TO 0.75".

 8. PROVIDE MASONRY AND VENEER LINTELS AT ALL OPENINGS, SEE SCHEDULE ON S1.2.
- 9. AT K-SERIES, PROVIDE 3 1/2" JOIST SEAT DEPTHS TYPICAL, UNLESS NOTED.

 10. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALL SHOULD BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL
- REINFORCING SHOP DRAWINGS.

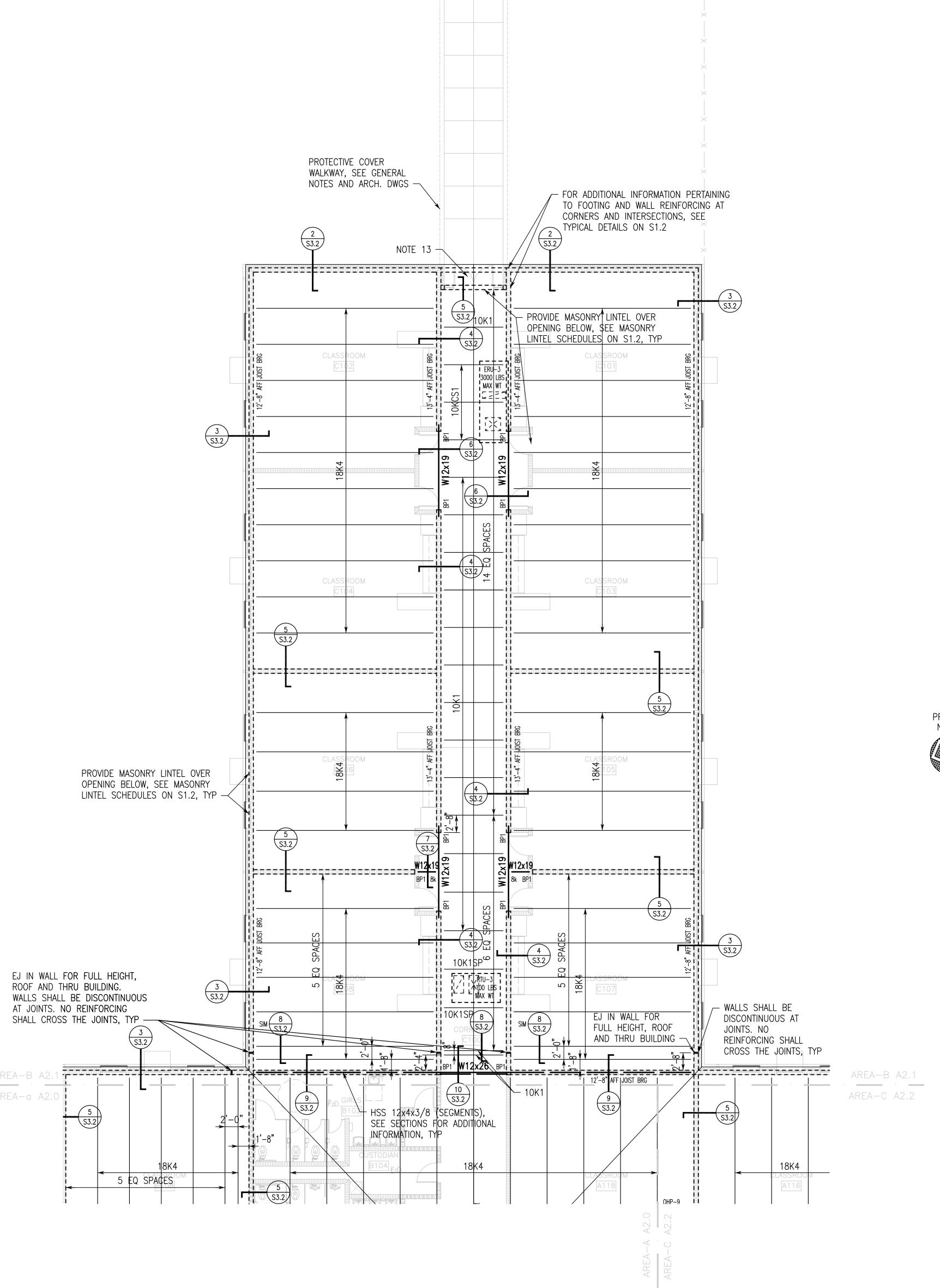
 11. CONTRACTOR COORDINATE ALL HANGER LOADS AND LOCATIONS WITH JOIST MANUFACTURER.

 12. CONTRACTOR COORDINATE STEEL JOIST LAYOUT BASED ON REQUIRED EQUIPMENT LOCATIONS AND
- ORIENTATIONS AS WELL AS DUCT ROUTING.

 13. FOR SOFFIT FRAMING, PROVIDE 6"x18 GAUGE METAL STUDS AT 16" ON CENTER. EXTEND STUDS TO ATTACH TO CMU WALLS WITH METAL STUD TRACK AT EACH END. ANCHOR TRACKS TO CMU WALLS WITH 2#12 MASONRY SCREWS AT 16" ON CENTER AND ATTACH STUDS TO TRACKS WITH #12 SCREW INTO EACH FLANGE (TOP AND BOTTOM). FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.
- 14. "BP" INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAILS ON S1.3.

 15. PRE-MANUFACTURED WALKWAY/CANOPY/SUNSHADE, PROVIDE 16" DEEP BOND BEAM AS REQUIRED FOR SYSTEM ANCHORAGE. 16" DEEP BOND BEAM IS TO BE CONSTRUCTED OF (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS. CONNECTIONS TO BUILDING BY SYSTEM MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR SYSTEM TO VENEER. ANCHOR SYSTEM INTO LOAD BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES.







PARTIAL ROOF FRAMING PLAN - AREA B

1. TOP OF STEEL (JOIST BEARING) ELEVATION 177.15' FFE, SEE PLAN AND/OR SECTIONS.

2. ROOF SYSTEM: 1 1/2" STEEL ROOF DECK, 20 GAGE, ON STEEL JOISTS AT 6'-0" MAXIMUM ON CENTER (UNLESS NOTED OTHERWISE), SEE GENERAL NOTES. ANCHOR METAL DECK TO JOISTS WITH #12 SCREWS IN 36/4 PATTERN WITH 2#10 SIDELAP SCREWS

BETWEEN JOISTS."

3. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.

4. SPACE STEEL JOISTS EQUALLY BETWEEN FACE OF WALLS, UNLESS NOTED.
5. EQUIPMENT LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS WITH THE JOIST MANUFACTURER. DO NOT SCALE FROM THIS DRAWING. PROVIDE ROOF EQUIPMENT FRAME AT ALL MECHANICAL UNITS. SEE DETAIL ON \$1.4

MECHANICAL UNITS. SEE DETAIL ON S1.4.

6. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS, SEE TYPICAL DETAILS ON S1.3

- 7. AT JOISTS DESIGNATED "SP", JOIST MANUFACTURER SHALL DESIGN JOISTS FOR 25 PSF DEAD LOAD AND 20 PSF LIVE LOAD PLUS ANY ADDITIONAL LOADS SHOWN ON PLANS, NOTED IN PLAN NOTES, AND/OR SHOWN/NOTED IN SECTIONS. LIMIT DEAD LOAD DEFLECTION OF JOISTS TO 0.75".

 8. PROVIDE MASONRY AND VENEER LINTELS AT ALL OPENINGS, SEE SCHEDULE ON S1.2.
- 9. AT K-SERIES, PROVIDE 3 1/2" JOIST SEAT DEPTHS TYPICAL, UNLESS NOTED.
 10. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALL SHOULD BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL
- 11. CONTRACTOR COORDINATE ALL HANGER LOADS AND LOCATIONS WITH JOIST MANUFACTURER.
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REINFORCING SHOP DRAWINGS.

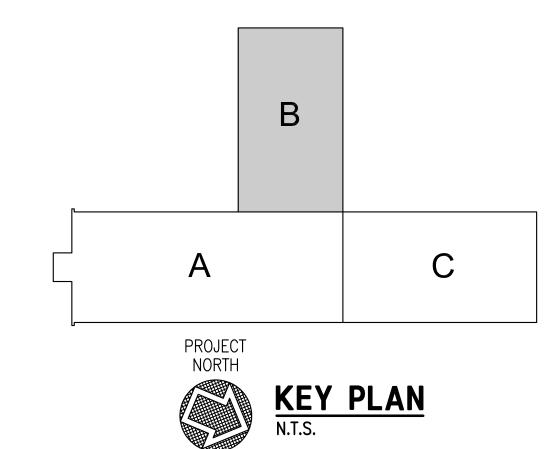
PIPE SLEEVES.

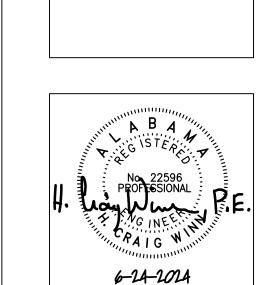
- ORIENTATIONS AS WELL AS DUCT ROUTING.

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INTO EÄCH FLANGE (TOP AND BOTTOM). FOR ADDITIONAL INFORMATION, SEE ARCHITECTURÄL DRAWINGS.





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SHEET TITLE:
PARTIAL ROOF
FRAMING PLAN AREA B

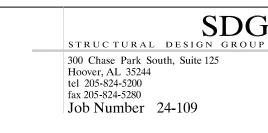
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DATE: 6/24/2024
REVISIONS

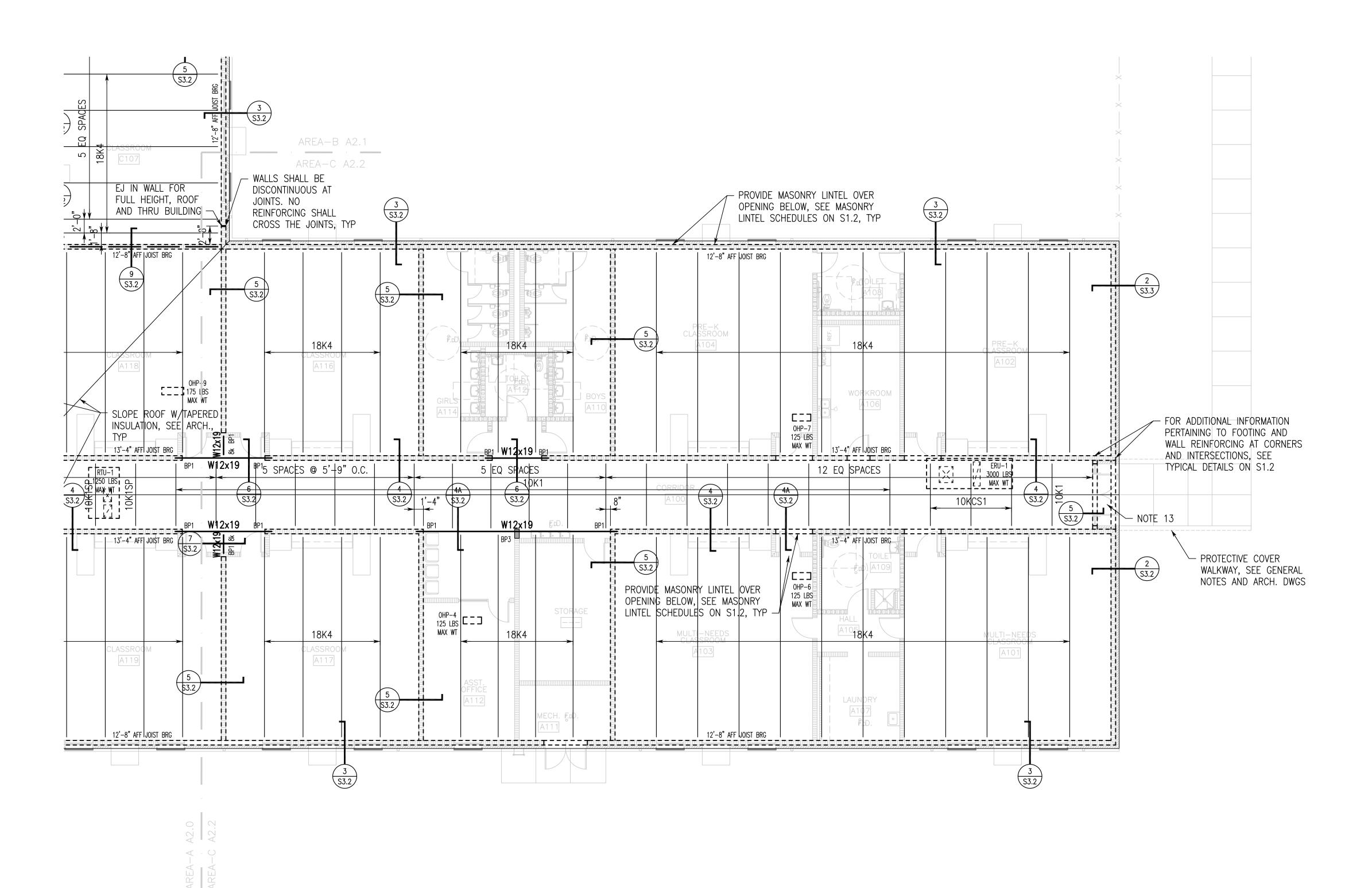
JOB NO. 24-38

SHEET NO:

11 OF 16





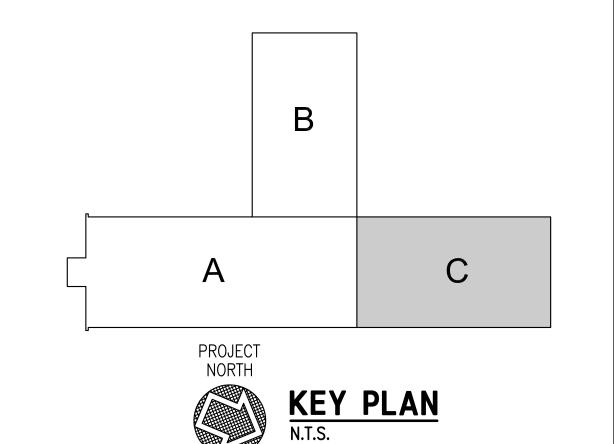




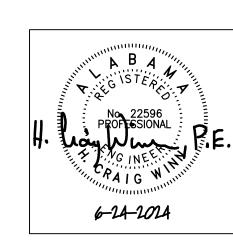
PARTIAL ROOF FRAMING PLAN - AREA C

- TOP OF STEEL (JOIST BEARING) ELEVATION 177.15' FFE, SEE PLAN AND/OR SECTIONS.
 ROOF SYSTEM: 1 1/2" STEEL ROOF DECK, 20 GAGE, ON STEEL JOISTS AT 6'-0" MAXIMUM ON CENTER (UNLESS NOTED OTHERWISE), SEE GENERAL NOTES. ANCHOR METAL DECK TO JOISTS WITH #12 SCREWS IN 36/4 PATTERN WITH 2#10 SIDELAP SCREWS BETWEEN JOISTS.
- 3. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS. 4. SPACE STEEL JOISTS EQUALLY BETWEEN FACE OF WALLS, UNLESS NOTED.
- 5. EQUIPMENT LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS WITH THE JOIST MANUFACTURER. DO NOT SCALE FROM THIS DRAWING. PROVIDE ROOF EQUIPMENT FRAME AT ALL MECHANICAL UNITS. SEE DETAIL ON S1.4.
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- 7. AT JOISTS DESIGNATED "SP", JOIST MANUFACTURER SHALL DESIGN JOISTS FOR 25 PSF DEAD LOAD
- AND 20 PSF LIVE LOAD PLUS ANY ADDITIONAL LOADS SHOWN ON PLANS, NOTED IN PLAN NOTES, AND/OR SHOWN/NOTED IN SECTIONS. LIMIT DEAD LOAD DEFLECTION OF JOISTS TO 0.75".
- PROVIDE MASONRY AND VENEER LINTELS AT ALL OPENINGS, SEE SCHEDULE ON S1.2.
- AT K-SERIES, PROVIDE 3 1/2" JOIST SEAT DEPTHS TYPICAL, UNLESS NOTED.
 CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALL SHOULD BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL REINFORCING SHOP DRAWINGS.
- CONTRACTOR COORDINATE ALL HANGER LOADS AND LOCATIONS WITH JOIST MANUFACTURER.
 CONTRACTOR COORDINATE STEEL JOIST LAYOUT BASED ON REQUIRED EQUIPMENT LOCATIONS AND ORIENTATIONS AS WELL AS DUCT ROUTING.
- 13. FOR SOFFIT FRAMING, PROVIDE 6"x18 GAUGE METAL STUDS AT 16" ON CENTER. EXTEND STUDS TO ATTACH TO CMU WALLS WITH METAL STUD TRACK AT EACH END. ANCHOR TRACKS TO CMU WALLS WITH 2#12 MASONRY SCREWS AT 16" ON CENTER AND ATTACH STUDS TO TRACKS WITH #12 SCREW INTO EACH FLANGE (TOP AND BOTTOM). FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.
- 14. "BP" INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAILS ON S1.3.

 15. PRE-MANUFACTURED WALKWAY/CANOPY/SUNSHADE, PROVIDE 16" DEEP BOND BEAM AS REQUIRED FOR SYSTEM ANCHORAGE. 16" DEEP BOND BEAM IS TO BE CONSTRUCTED OF (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS. CONNECTIONS TO BUILDING BY SYSTEM MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR SYSTEM TO VENEER. ANCHOR SYSTEM INTO LOAD BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES.



SUMTER CENTRAL HIGH SCHOO 13878 US HIGHWAY 11, YORK, AL 36925



SHEET TITLE:
PARTIAL ROOF
FRAMING PLAN AREA C

PROJ. MGR.: HCW
DRAWN: ABS

DATE: 6/24/2024
REVISIONS

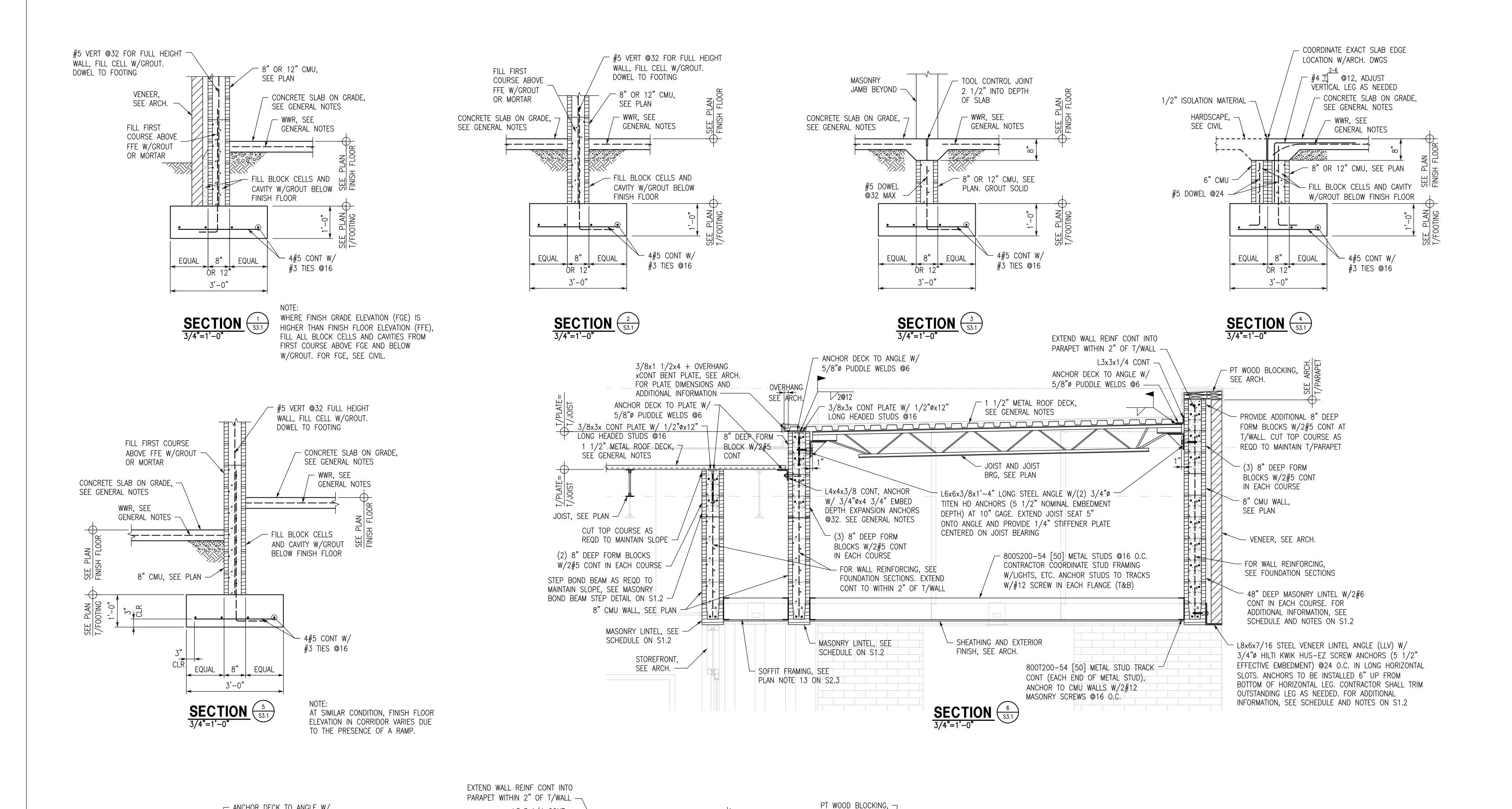


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SEE ARCH.

PROVIDE ADDITIONAL 8" DEEP

FORM BLOCKS W/2#5 CONT AT

T/WALL. CUT TOP COURSE AS

REQD TO MAINTAIN T/PARAPET -

(3) 8" DEEP FORM

IN EACH COURSE

VENEER, SEE ARCH.

FOR WALL REINFORCING.

SEE FOUNDATION SECTIONS -

MASONRY LINTEL, SEE

SCHEDULE ON S1.2

STEEL VENEER LINTEL ANGLE,

SEE SCHEDULE ON S1.2

BLOCKS W/2#5 CONT

8" CMU WALL,

SEE PLAN

EXTEND WALL REINF CONT INTO

PARAPET WITHIN 2" OF T/WALL

— ANCHOR DECK TO ANGLE W/

5/8"ø PUDDLE WELDS @6

3/4"øx4 3/4" EMBED DEPTH

EXPANSION ANCHORS @32.

800T200-54 [50] METAL STUD

TRACK CONT (ALONG EACH WALL),

ANCHOR TO CMU WALLS W/2#12

MASONRY SCREWS @16 O.C.

SEE GENERAL NOTES

L4x4x3/8 CONT

ANCHOR DECK TO ANGLE W/

- 3/8x3x CONT PLATE W/ 1/2"øx12"

LONG HEADED STUDS @16

-(3) 8" DEEP FORM

BLOCKS W/2#5 CONT

IN EACH COURSE

5/8"ø PUDDLE WELDS @6

3/8x1 1/2x4 + OVERHANG

FOR PLATE DIMENSIONS AND

ADDITIONAL INFORMATION —

ANCHOR DECK TO ANGLE W/

1 1/2" METAL ROOF DECK, -

5/8"ø PUDDLE WELDS @6

SEE GENERAL NOTES

JOIST, SEE PLAN

L4x4x3/8 CONT, ANCHOR

(2) 8" DEEP FORM BLOCKS

FOR WALL REINFORCING, SEE

FOUNDATION SECTIONS. EXTEND

CONT TO WITHIN 2" OF T/WALL

W/2#5 CONT IN EACH COURSE -

W/ 3/4"øx4 3/4" EMBED

DEPTH EXPANSION ANCHORS

@32. SEE GENERAL NOTES —

8" CMU WALL,

SEE PLAN

xCONT BENT PLATE, SEE ARCH.

8" DEEP FORM

BLOCK W/2#5 CONT

L3x3x1/4 CONT -

ANCHOR DECK TO ANGLE W/

5/8"ø PUDDLE WELDS @6 —

- 800S200-54 [50] METAL STUDS @16 O.C.

W/LIGHTS, ETC. ANCHOR STUDS TO TRACKS

CONTRACTOR COORDINATE STUD FRAMING

W/#12 SCREW IN EACH FLANGE (T&B)

FOR WALL REINFORCING, SEE

FOUNDATION SECTIONS. EXTEND CONT TO WITHIN 2" OF T/WALL

1 1/2" METAL ROOF DECK,

SEE GENERAL NOTES

JOIST AND JOIST

BRG, SEE PLAN

 $1.6 \times 6 \times 3 / 8 \times 1' - 4$ " LONG STEEL ANGLE W/(2) 3/4" ø

TITEN HD ANCHORS (5 1/2" NOMINAL EMBEDMENT

ONTO ANGLE AND PROVIDE 1/4" STIFFENER PLATE

SHEATHING AND EXTERIOR

FINISH, SEE ARCH.

- VENEER, SEE ARCH.

W/2#5 CONT IN EACH COURSE -

SECTION 7
S3.1

3/4"=1'-0"

- (2) 8" DEEP FORM BLOCKS

DEPTH) AT 10" GAGE. EXTEND JOIST SEAT 5"

CENTERED ON JOIST BEARING

/- PT WOOD BLOCKING,

PROVIDE ADDITIONAL 8" DEEP

FORM BLOCKS W/2#5 CONT AT

T/WALL. CUT TOP COURSE AS

REQD TO MAINTAIN T/PARAPET

(3) 8" DEEP FORM

IN EACH COURSE

8" CMU WALL,

SEE PLAN

BLOCKS W/2#5 CONT

VENEER, SEE ARCH.

- FOR WALL REINFORCING,

SEE FOUNDATION SECTIONS

- (2) 8" DEEP FORM BLOCKS

 $\frac{7}{2}$ 800T200-54 [50] METAL STUD TRACK

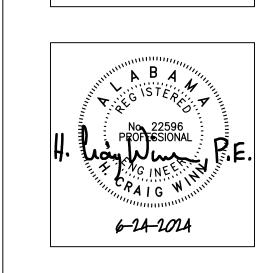
CONT (EACH END OF METAL STUD),

ANCHOR TO CMU WALLS W/2#12

MASONRY SCREWS @16 O.Ć.

W/2#5 CONT IN EACH COURSE

SEE ARCH.



EXTEND WALL REINF CONT INTO

PARAPET WITHIN 2" OF T/WALL

ANCHOR DECK TO ANGLE W/

5/8"ø PUDDLE WELDS @6 ——

3/4"øx4 3/4" EMBED DEPTH —

EXPANSION ANCHORS @32.

800T200-54 [50] METAL STUD -

TRACK CONT (ALONG EACH WALL),

ANCHOR TO CMU WALLS W/2#12

MASONRY SCREWS @16 O.C.

SEE GENERAL NOTES

- JOIST, SEE PLAN -

— SHEATHING AND EXTERIOR

FINISH, SEE ARCH.

SECTION 8 S3.1

- 800S200-54 [50] METAL STUDS @16 O.C.

W/LIGHTS, ETC. ANCHOR STUDS TO TRACKS

CONTRACTOR COORDINATE STUD FRAMING

W/#12 SCREW IN EACH FLANGE (T&B)

L4x4x3/8 CONT -

PT WOOD BLOCKING,

PROVIDE ADDITIONAL 8" DEEP

FORM BLOCKS W/2#5 CONT AT

T/WALL. CUT TOP COURSE AS

REQD TO MAINTAIN T/PARAPET

(3) 8" DEEP FORM

IN EACH COURSE

- 8"CMU WALL,

SEE PLAN

BLOCKS W/2#5 CONT

VENEER, SEE ARCH.

- FOR WALL REINFORCING,

— MASONRY LINTEL, SEE

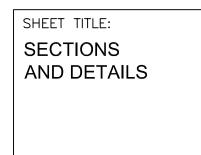
SCHEDULE ON \$1.2

- STEEL VENEER LINTEL ANGLE,

SEE SCHEDULE ON S1.2

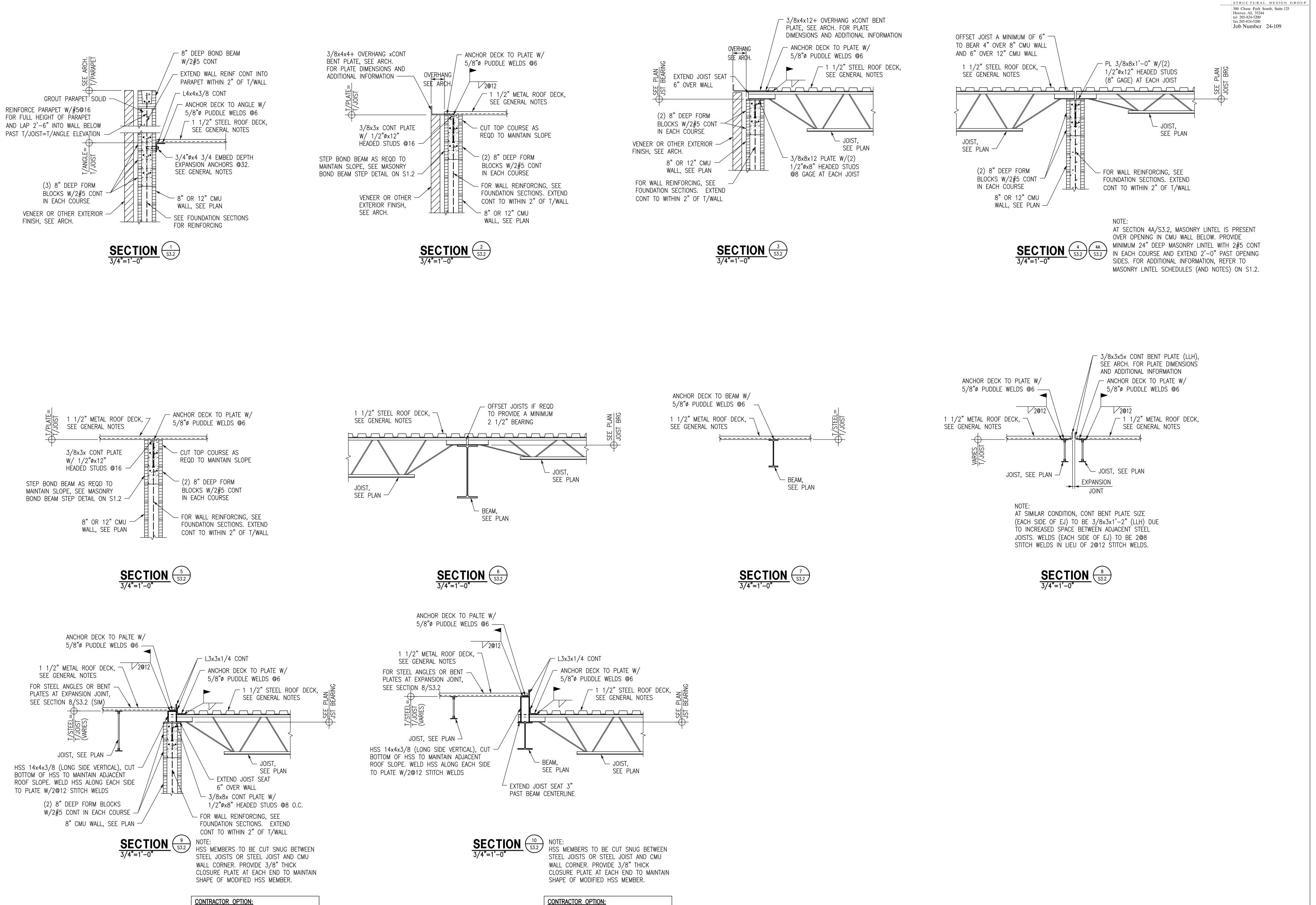
SEE FOUNDATION SECTIONS

SEE ARCH.



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JOB NO. **24-38** SHEET NO: S3.¹ 13 of 16



REQUIRED HSS MEMBER HEIGHT VARIES

VARYING HSS SIZES.... HSS 4x4x3/8 TO

HSS 14x4x3/8... AND MODIFY AS NEEDED.

CONTRACTOR MAY CHOOSE TO USE WHOLE

HSS MEMBER WITH MODIFIED HSS MEMBER

TO OBTAIN DESIRED TOTAL HEIGHT. WELD

WHOLE HSS TO PLATE ALONG EACH SIDE

FROM ABOUT 3 1/2" TO 11 1/2".

CONTRACTOR MAY CHOOSE TO USE

W/2@12 STITCH WELDS AND WELD

EACH SIDE W/2@12 STITCH WELDS.

MODIFIED HSS TO WHOLE HSS ALONG

REQUIRED HSS MEMBER HEIGHT VARIES

VARYING HSS SIZES.... HSS 4x4x3/8 TO

HSS 14x4x3/8... AND MODIFY AS NEEDED.

CONTRACTOR MAY CHOOSE TO USE WHOLE

HSS MEMBER WITH MODIFIED HSS MEMBER

TO OBTAIN DESIRED TOTAL HEIGHT. WELD

WHOLE HSS TO PLATE ALONG EACH SIDE

W/2@12 STITCH WELDS AND WELD

EACH SIDE W/2@12 STITCH WELDS.

MODIFIED HSS TO WHOLE HSS ALONG

FROM ABOUT 3 1/2" TO 11 1/2".

CONTRACTOR MAY CHOOSE TO USE

LATHAN ARCHITECTS

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SHEET TITLE: SECTIONS AND DETAILS

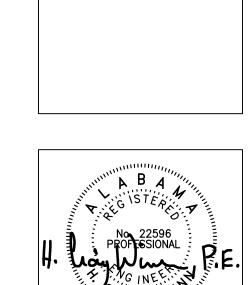
PROJ. MGR.: HCW DRAWN: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO:

14 OF 16



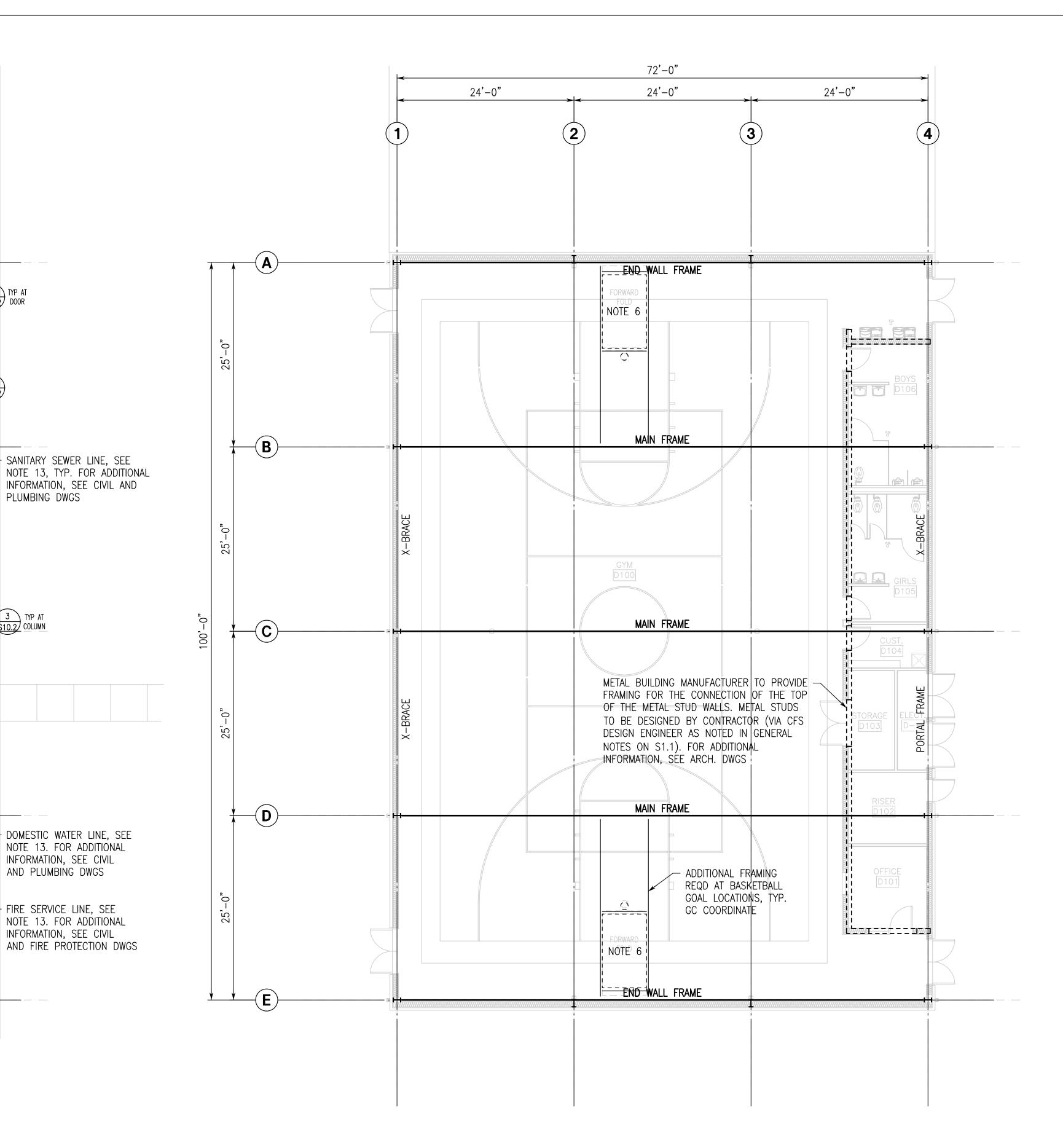
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SHEET TITLE: **GYMNASIUM FOUNDATION AND** ROOF FRAMING

PROJ. MGR.: DRAWN: 6/24/2024 REVISIONS

JOB NO. **24-38** SHEET NO: 15 of 16





GYMNASIUM FOUNDATION PLAN

- FINISH FLOOR (TOP OF SLAB) ELEVATION 180.00', UNLESS NOTED.
- TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.

9. FOR PRE-FABRICATED METAL BUILDING, SEE GENERAL NOTES ON S1.1.

FOR GENERAL NOTES, SEE SHEETS S1.0 AND S1.1.

THE SPREAD FOOTING.

72**'**-0"

24**'**-0"

4" THICK CONCRETE SLAB ON

-0"x2'-0"x2'-0" deep thickened slab -VOLLEYBALL SUPPORTS, REINF W/WELDED

ARCHITECTURAL DWGS FOR EXACT LOCATION
AND ADDITIONAL INFORMATION, TYP

RE REINFORCEMENT (WWR). SEE

GRADE ON VAPOR BARRIER AND 4" GRANULAR FILL OVER COMPACTED SUBGRADE, SEE GENERAL NOTES.

- SLAB CONTROL

JOINTS, SEE TYPICAL DETAIL ON S1,2

INTERIOR STUD WALL ON

INTERIOR METAL STUD FRAMED

WALLS, SEE ARCH. DWGS FOR

ADDITIONAL INFORMATION, TYP

THICKENED SUAB ON GRADE, SEE TYPICAL DETAIL ON \$1.5

24'-0"

SANITARY SEWER LINE, SEE

DOMESTIC WATER LINE, SEE NOTE 13. FOR ADDITIONAL INFORMATION, SEE CIVIL

AND PLUMBING DWGS

FIRE SERVICE LINE, SEE

INFORMATION, SEE CIVIL

NOTE 13. FOR ADDITIONAL

L-----

PLUMBING DWGS

24'-0"

5 HAIRPIN, SEE

TYPICAL DETAIL ON S1.5 -

- 4. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS. FOR SLAB RECESS SIZE AND LOCATION, SEE ARCHITECTURAL DRAWINGS.
- . GENERAL CONTRACTOR SHALL CUT SAWN JOINTS NO MORE THAN 8 HOURS AFTER STEEL TROWEL FINISH ON SLAB.
- 7. GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES ON S1.1 FOR ADDITIONAL
- INFORMATION.
- 8. GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
- REÏNFORCING. 11. COORDINATE ALL BUILDING OFFSETS AND SLAB EDGES WITH ARCHITECTURAL DRAWINGS.

10. "F#" INDICATES CONCRETE SPREAD FOOTING. SEE SCHEDULE ON THIS SHEET FOR SIZE AND

12. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL AND CIVIL DRAWINGS. 13. FOR UTILITIES BENEATH THE TURN DOWN FOOTING, SEE PLUMBING LINE BELOW TURN DOWN FOOTING TYPICAL DETAIL ON \$1.5. NO UTILITY LINES ARE TO BE BENEATH METAL BUILDING COLUMN SPREAD FOOTINGS. IF A UTILITY LINE IS BENEATH A SPREAD FOOTING, THEN THE UTILITY LINE IS TO BE REROUTED AND PASS BENEATH THE TURN DOWN FOOTING AWAY FROM

:(OOTING SCHEDULE								
00	TING DESIGNATION	F4.0	F6.0	F7.0					
	SIZE (LxW) DEPTH (D) REINF EW (BOT) NOTES	4'-0"x4'-0" 1'-6" 4#5 1	6'-0"x6'-0" 1'-6" 6#6 1	7'-0"x7'-0" 1'-6" 7#6 1					

1. PROVIDE SCHEDULED REINFORCING AT TOP AND BOTTOM OF FOOTING.



PROJECT NORTH

GYMNASIUM ROOF FRAMING PLAN

ROOF SYSTEM: PREFABRICATED METAL BUILDING FRAMES WITH PURLINS

SUPPORTING STANDING SEAM METAL ROOFING. 2. METAL BUILDING MANUFACTURER TO USE FRAME LINES AS INDICATED. WHERE THIS IS NOT FEASIBLE THE METAL BUILDING SHOP DRAWINGS SHOULD CLEARLY DESIGNATE ANY DEVIATIONS. ARCHITECT MUST APPROVE ANY CHANGES MADE TO FRAME LAYOUT

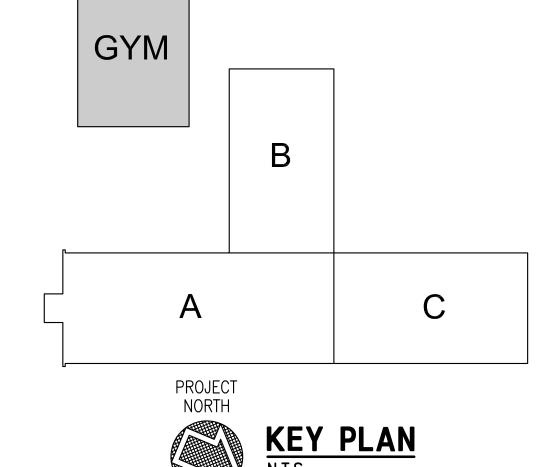
3. LOCATIONS OF PORTAL AND BRACED FRAMES FOR LATERAL STABILITY OF THE STRUCTURE TO BE AS DIRECTED BY THE METAL BUILDING MANUFACTURER. EVERY EFFORT SHOULD BE MADE TO COORDINATE FRAMES WITH EXISTING ARCHITECTURE. LOCATIONS AND SIZE OF FRAME ELEMENTS SHOULD BE CLEARLY DEFINED ON SHOP DRAWINGS SUBMITTED FOR APPROVAL.

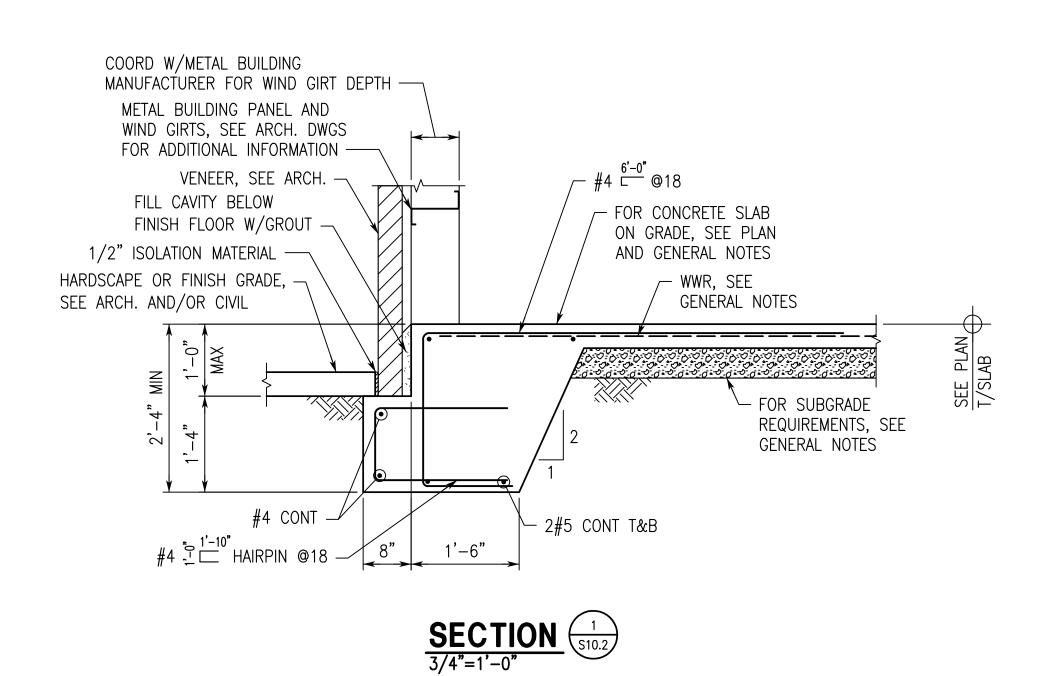
4. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE METAL BUILDING MANUFACTURER.

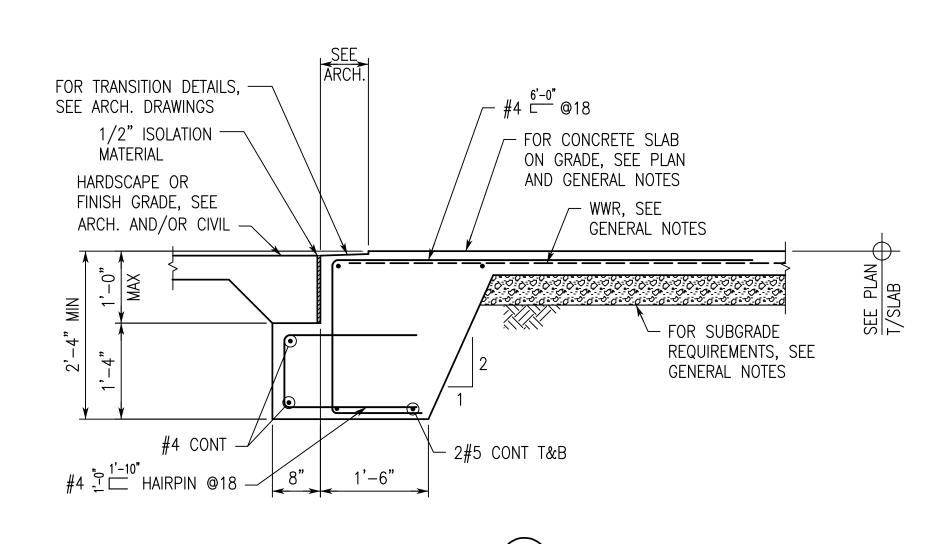
FOR PIPING WEIGHTS, SEE TABLE ON SHEET S1.3. . CONTRACTOR COORDINATE SPRINKLER PIPING LOADS WITH METAL BUILDING MANUFACTURER. FOR PIPING WEIGHTS, SEE TABLE ON SHEET S1.3. PIPING WILL RESULT IN A CONCENTRATED LOAD AT HANGER LOCATIONS. COORDINATE MAXIMUM

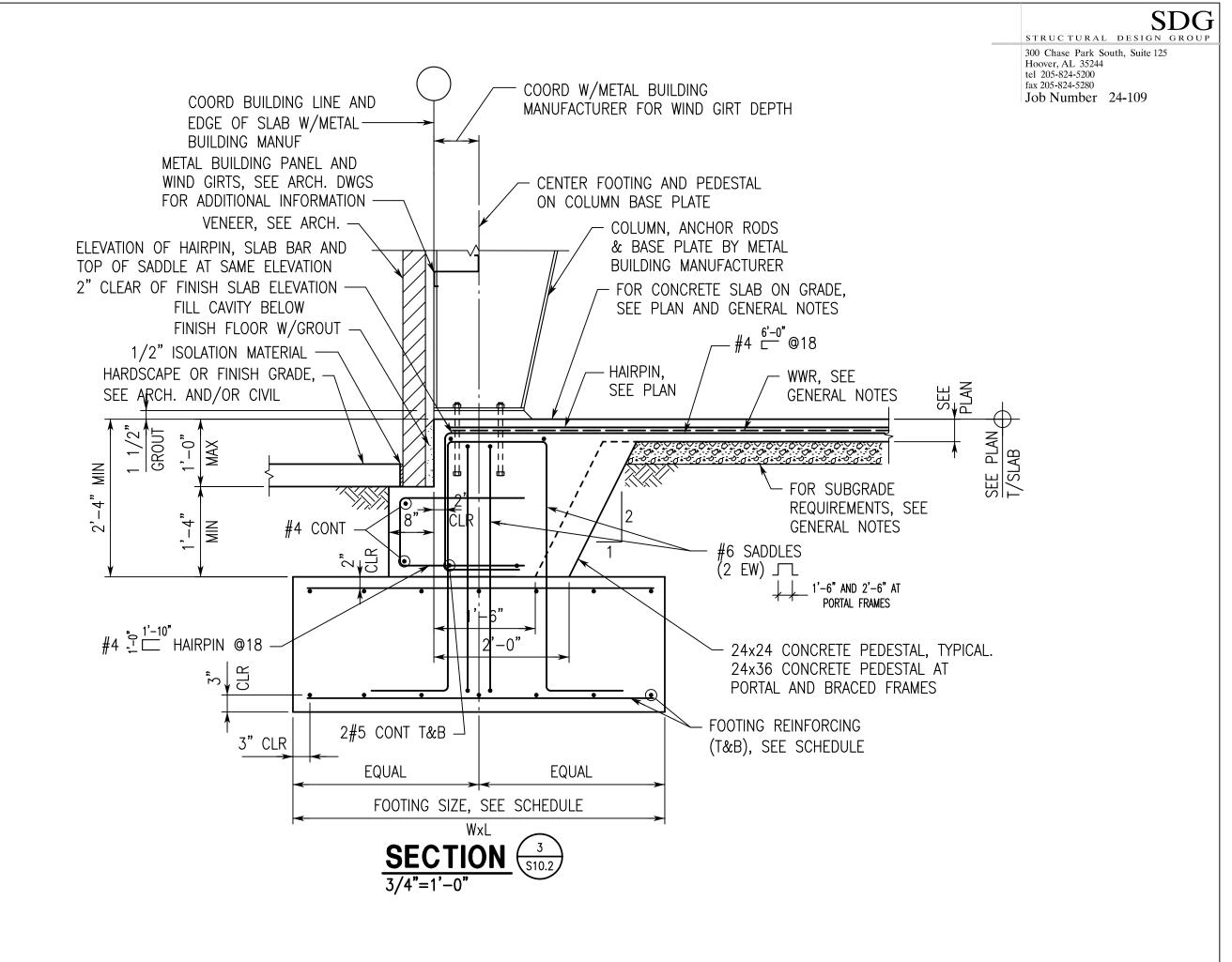
HANGER SPACING WITH METAL BUILDING MANUFACTURER. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF BASKETBALL GOAL SUPPORTS AND THEIR ATTACHMENT TO THE ROOF STRUCTURE. PROVIDE ADDITIONAL FRAMING AS NECESSARY TO FRAME GOALS BETWEEN MAIN AND END WALL FRAMES AS SHOWN. SUBMIT SHOP DRAWINGS SHOWING DETAILING OF GOAL SUPPORTS AND ATTACHMENT TO ROOF STRUCTURE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER. COORDINATE APPLIED LOADS AND ATTACHMENT TO ROOF STRUCTURE WITH METAL BUILDING MANUFACTURER.

7. WHERE ROOF SUPPORTED/SUSPENDED MECHANICAL UNITS ARE LOCATED, THE CONTRACTOR SHALL COORDINATE ALL LOADING, CURB SUPPORTS, OPENING FRAMING AND/OR ANY ADDITIONAL SUPPORT REQUIREMENTS WITH THE METAL BUILDING MANUFACTURER. THE METAL BUILDING MANUFACTURER SHALL PROVIDE ALL FRAMING AS REQUIRED TO SUPPORT THE MECHANICAL UNITS AND CURBS. PROVIDE ADDITIONAL FRAMING AS NECESSARY TO FRAME BETWEEN MAIN AND/OR END WALL FRAMES.











ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



SHEET TITLE:

GYMNASIUM
SECTIONS
AND DETAILS

PRC	J. MGR.:	HCW
DRA	WN:	ABS
DAT	E:	6/24/2024
REV	ISIONS	

JOB NO. **24-38**SHEET NO:

S10.2

FIRE PROTECTION GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, ELEVATION OF EXISTING STRUCTURE, CEILINGS. MECHANICAL, AND ELECTRICAL PRIOR TO INSTALLING ANY NEW PIPE.
- CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH ALL STRUCTURAL, ELECTRICAL, AND MECHANICAL FEATURES OF THE BUILDING.
- ALL HORIZONTAL PIPING IS RUN ABOVE THE CEILING OR IN JOIST SPACE. ALL PIPING SHALL DRAIN DOWN AS REQUIRED BY NFPA 13. PIPING TO BE INSTALLED TO CONCEAL
- AS MUCH AS POSSIBLE. INSTALL ALL FIRE PROTECTION MATERIALS IN AREAS WITH EXPOSED CEILINGS IN A NEAT FIRST CLASS MANNER. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICES. PIPING SHALL BE INSTALLED PARALLEL AND/OR
- 5. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROJECT ENGINEERS FOR INSPECTION AND TESTING. PROVIDE A MINIMUM OF A WEEK.

PERPENDICULAR TO BUILDING STRUCTURE UNLESS INDICATED OTHERWISE.

CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR NEW WORK AREAS,

CEILING HEIGHTS, SECTIONS, AND RATED WALLS.

- CONTRACTOR RESPONSIBLE FOR COORDINATION OF PIPING WEIGHT AND LOCATION PRIOR TO INSTALLATION OF ANY PIPE.
- 8. PIPING LAYOUT AND SIZING SHOWN ON PLANS IS DIAGRAMMATIC AND SHOWN FOR SPACE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR LAYOUT SHOP DRAWINGS, CALCULATIONS, SUBMITTAL DATA, TESTING, OWNER TRAINING AND CERTIFYING SYSTEM MEETS NFPA 13 AND CONTRACT DOCUMENTS.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS DIFFERENT FROM THE SPECIFIED SPRINKLERS HEADS.
- 10. CONTRACTOR SHALL OBTAIN APPROVAL OF "SPRINKLER HEAD TYPE" FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS.
- 11. CONTRACTOR SHALL PAINT ALL EXPOSED PIPING TO MATCH STRUCTURE. COORDINATE EXACT COLOR WITH ARCHITECT.

FIRE PROTECTION SHOP DRAWINGS AND SUBMITTALS

- PROVIDE A NFPA 13 COMPLIANT SYSTEM TO PROVIDE COVERAGE TO NEW WORK AREA. CONTRACTOR RESPONSIBLE TO PROVIDE DETAILED SHOP DRAWINGS AND CALCULATIONS
- SHOP DRAWINGS SHALL INCLUDE:

FIRE PROTECTION CONTRACTOR.

- A. A REFLECTED CEILING PLAN INDICATING LOCATION OF SPRINKLER HEADS, LIGHTS, CEILING DEVICES, GRILLES, AUDIO VISUAL, AND ANY DEVICES ATTACHED TO LIFT OUT CEILINGS. ALL SPRINKLER HEADS IN LAY-IN CEILINGS TO BE CENTERED IN TILES. COORDINATE EXACT LOCATION OF SPRINKLER HEADS IN HARD CEILINGS WITH ARCHITECT AND ENGINEER.
- B. PREPARE A WORKING PIPE SHOP DRAWING BASED ON HYDRAULIC CALCULATIONS. THE PIPING DRAWINGS SHALL INDICATE THE ELEVATION OF THE PIPE, THE CONFIGURATION OF THE PIPING AND HANGERS, SIZE OF THE PIPE AND COORDINATION
- OF PIPING WITH OTHER DISCIPLINES, STRUCTURE AND DUCTWORK. C. HYDRAULIC CALCULATIONS ARE TO BE PREPARED USING A FLOW TEST WITHIN 90
- D. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING LOCAL AUTHORITY HAVING JURISDICTION COMMENTS FOR COMPLIANCE.
- E. ALL ADDITIONAL MATERIALS TO BE INDICATED ON SHOP DRAWINGS. F. ALL LOW-POINT DRAIN DOWN LOCATION AND PENETRATIONS OF BUILDING STRUCTURE TO BE INDICATED ON SHOP DRAWINGS.
- CONTRACTOR SHALL BE LICENSED IN THE STATE IN WHICH THE WORK IS PREFORMED. THE CONTRACTOR SHALL BE A NICET LEVEL III OR LEVEL IV OR SPECIAL HAZARD SUPPRESSION SYSTEMS. THE NICET LEVEL III DESIGNER SHALL BE AN EMPLOYEE OF
- ALL ELECTRICAL FIRE ALARM REQUIREMENTS TO BE COORDINATED WITH THE ELECTRICAL THE FLOW AND TAMPER SWITCHES TO BE PROVIDED UNDER FIRE PROTECTION CONTRACT. CONDUIT, ALARM WIRING AND PROGRAMMING THE RESPONSIBILITY OF THE FIRE ALARM CONTRACT AND SHALL BE COORDINATED WITH ELECTRICAL. NICET LEVEL III DESIGNER SHALL INSPECT
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS PRIOR TO THE START OF THE SPRINKLER SYSTEM INSTALLATION.

FIRE PROTECTION DESIGN ANALYSIS

REFER TO ARCHITECTURAL PLANS FOR COMPLIANCE NFPA 101 TYPE OF CONSTRUCTION: REFER TO ARCHITECTURAL

OCCUPANCY: REFERENCE ARCHITECTURAL LIFE SAFETY PLAN

FIRE DESIGN CODES /STANDARDS

APPLICABLE CODES AND STANDARDS: INTERNATIONAL BUILDING CODE (IBC) INTERNATIONAL FIRE CODE (IFC) INTERNATIONAL PLUMBING CODE (IPC) NATIONAL ELECTRIC CODE (NEC) NATIONAL FIRE ALARM CODE NFPA 72

FLOW SWITCH ►

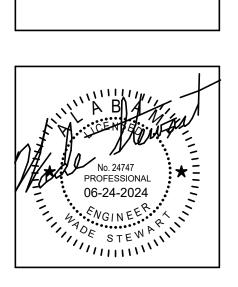
NATIONAL ENERGY CODE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13,20,24,101

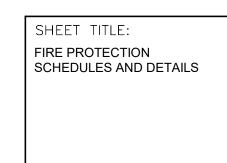
FIRE PROTECTION LE	EGEND
FIRE MAIN (F)	F
FIRE DRAIN LINE	—— FD ———
BALL VALVE	
OS&Y VALVE (WITH TAMPER SWITCH)	COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
FLOW SWITCH	COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
C+	PIPE DOWN
	PIPE UP
GPM	GALLONS PER MINUTE
PSI	POUNDS PER SQUARE INCH
SP	FULLY RECESSED PENDENT SPRINKLER HEAD (PENDENT HEADS SHALL BE WHITE W/ WHITE ESCUTCHEON UNLESS APPROVED BY ARCHITECT)
SU	UPRIGHT SPRINKLER HEAD
	ARCHITECT TO SELECT COLORS ON ALL SPINKLER HEADS

Dewberry 2 Riverchase Office Plaza Suite 205 Hoover, AL 35244 (205) 988-2069 www.dewberrv.com Project Number : 50181596









PROJ. MGR.: -	SMC
DRAWN:	ZDE
DATE: -	06/24/24
REVISIONS	

JOBNO. **24-38** SHEET NO: FP0.1

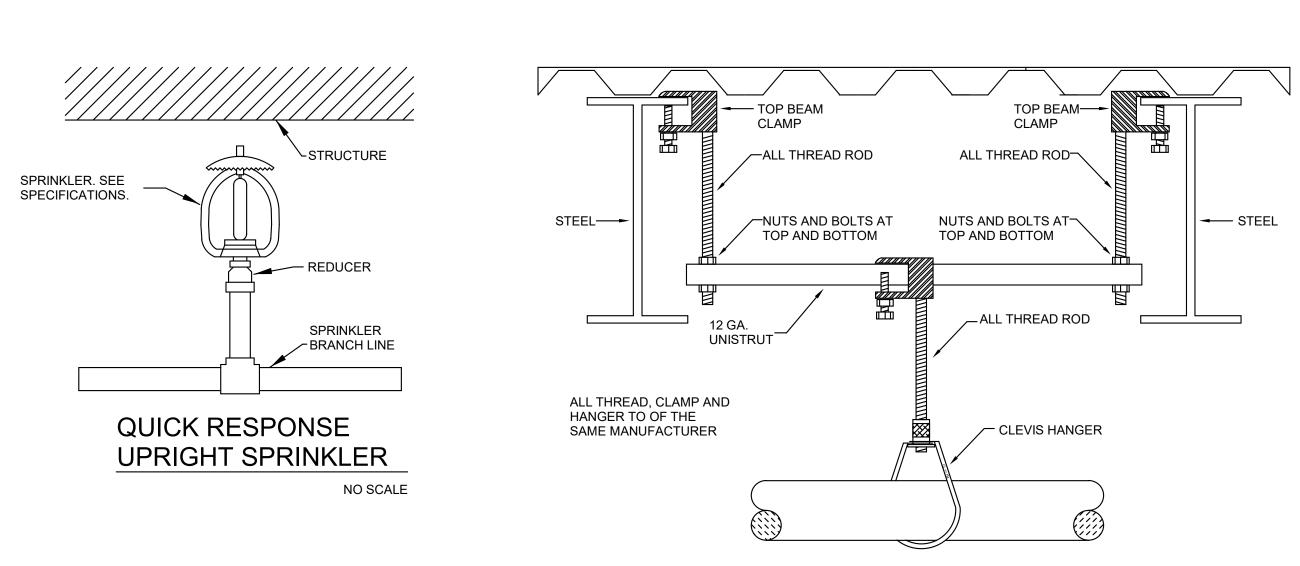
FIRE PROTECTION HYDRAULIC DEMANDS

1. SPRINKLER PROTECTION

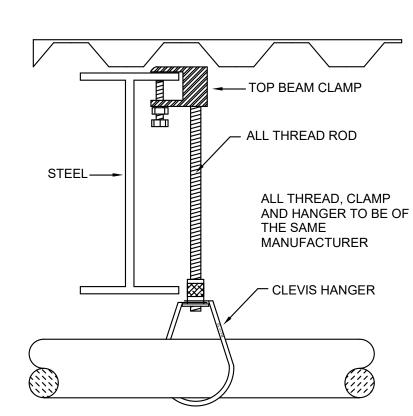
- A. ALL OFFICES, TEACHER WORKROOMS, LOBBIES, VESTIBULES, CLASSROOMS, GYMNASIUMS, CAFETERIAS, TOILETS, COMMON AREAS, CORRIDORS: LIGHT HAZARD 0.10 GPM OVER HYDRAULICALLY MOST REMOTE 1500 SQ. FT.
- B. MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, GENERAL PURPOSE STORAGE LESS THAN 100 SQ. FT.: ORDINARY HAZARD, GROUP 2, 0.20 GPM OVER HYDRAULICALLY MOST REMOTE 2000 SQ. FT.
- C. GENERAL STORAGE, STORAGE HEIGHT LIMIT LESS THAN 12FT, LIMITED COMBUSTIBLES LESS THAN 25
- HYDRAULIC CALCULATION SHALL BE CALCULATED WITH 10% SAFETY FACTOR OF SUPPLY CURVE.

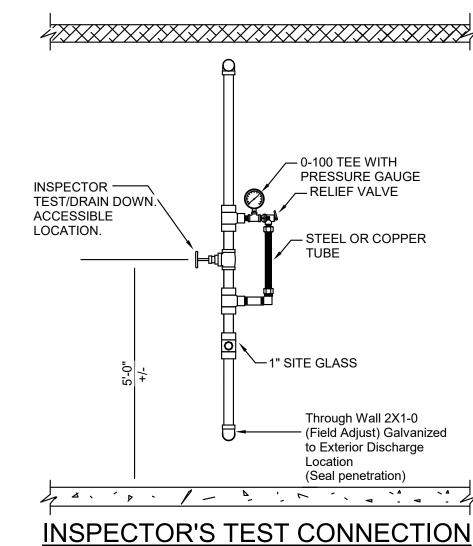
GALLONS: ORDINARY GROUP 1 PER NFPA 13, 0.15 GPM PER 1500 SQ. FT.

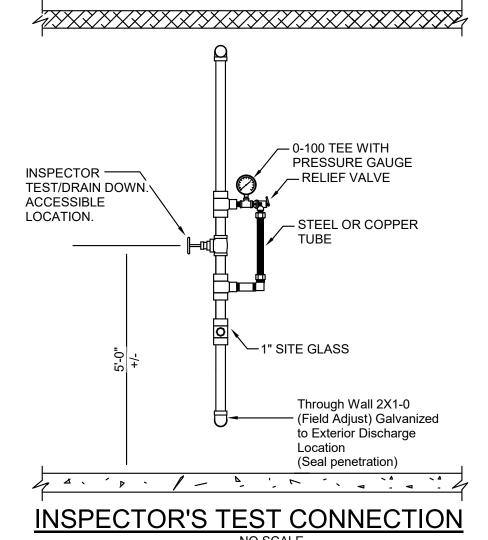
3. FLOW DATA TO BE RESPONSIBILITY OF CONTRACTOR.

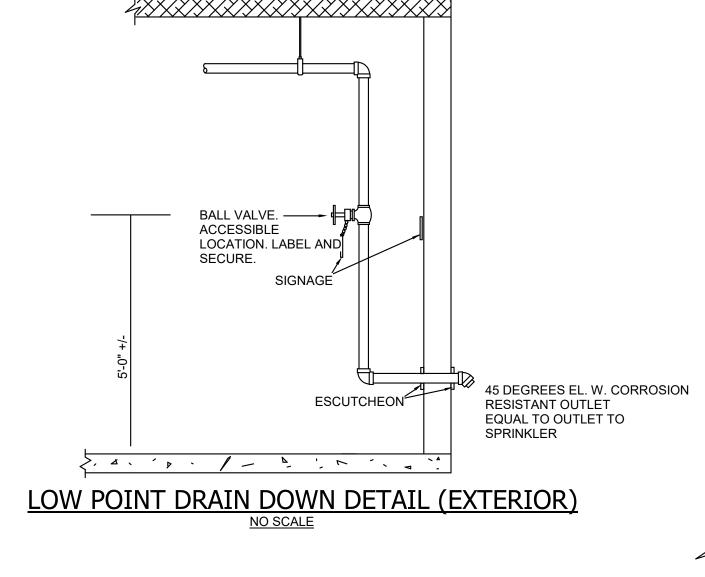


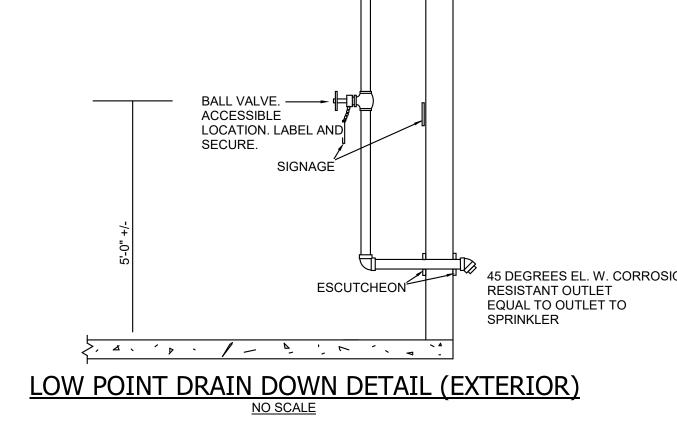
TRAPEZE HANGER DETAIL - UNISTRUT NO SCALE

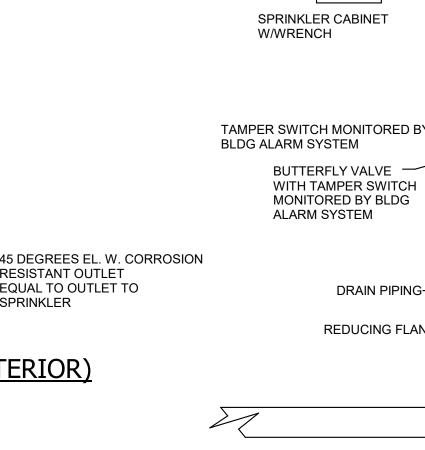












TO BUILDING -

DRAIN PIPING--

REDUCING FLANGE



TOP BEAM CLAMP DETAIL

HILTI HDI-P-DROP-IN ANCHOR ALL THREAD AND HANGER TO BE OF THE SAME MANUFACTURER

CENTER OF TILE FABRICATION

AND INSTALLATION

COORDINATE TYPE OF SPRINKLER HEAD (RECESSED, CONCEALED, ETC.)

CEILING -

DROP-IN DETAIL

NO SCALE

■ BUILDING WALL TEST HEADER FIRE BOOSTER PUMP CONTROLLER HOUSEKEEPING PAD-FINISH FLOOR VIBRATION ISOLATION — NOTE: FIRE PUMP SHALL BE MONITORED BY CAMPUS BMCS. COORDINATE WITH CONTROLS CONTRACTOR.

FIRE PUMP

NO SCALE

PROVIDE A 1000 HP 6X4VIP PATTERSON PUMP COMPLETE

∠ CHECK VALVE (TYP.)

WITH BYPASS, JOCKEY PUMP, VARIABLE SPEED CONTROLLER

JOCKEY PUMP CONTROLLER, MONITOR WITH BUILDING MANAGEMENT

- JOCKEY PUMP

FIRE SERVICE ENTRY - BUILDING

CONTRACTOR TO PROVIDE

HYDRAULIC CALCULATIONS

- ALARM VALVE

PRESSURE &

W/VARIABLE

4" GRV CHECK

─ VALVE TO FDC

ELECTRIC BELL MOUNTED TO

EXTERIOR WALL MONITORED BY BLDG ALARM SYSTEM

REMOTE FIRE DEPARTMENT

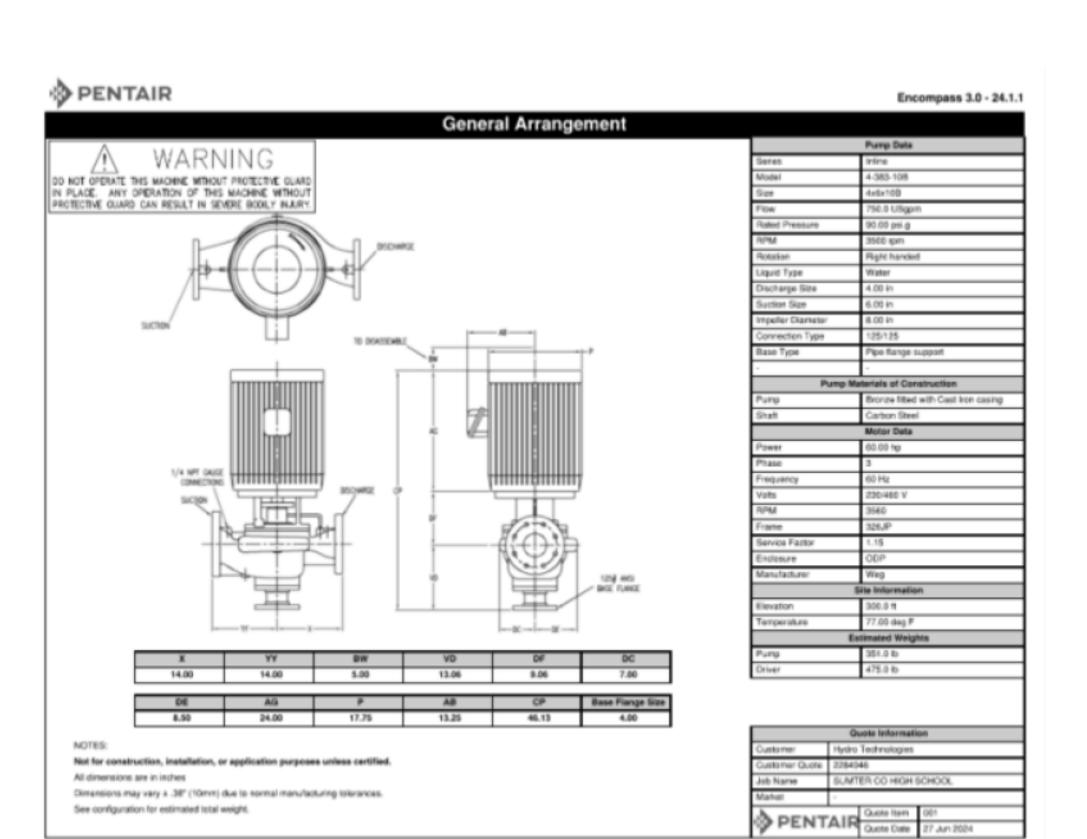
CONNECTION (PROVIDED BY

WITHIN 100FT OF HYDRANT

∠2" MAIN DRAIN PIPED TO EXTERIOR

OTHERS) COORDINATE

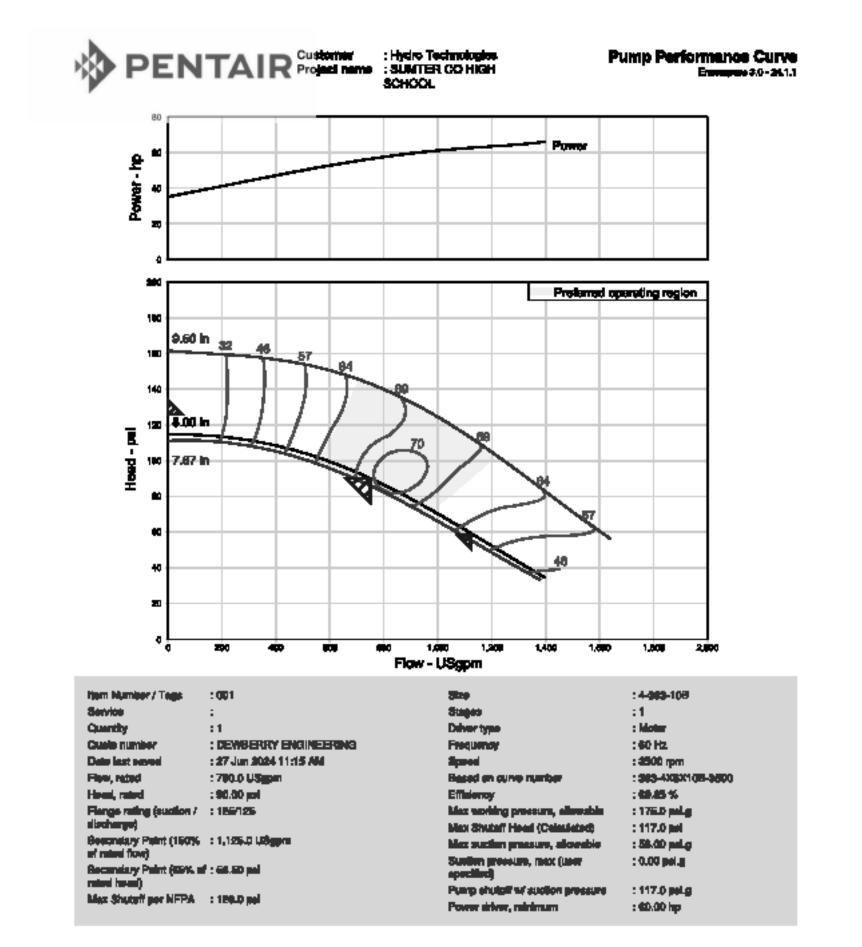
WITH AHJ

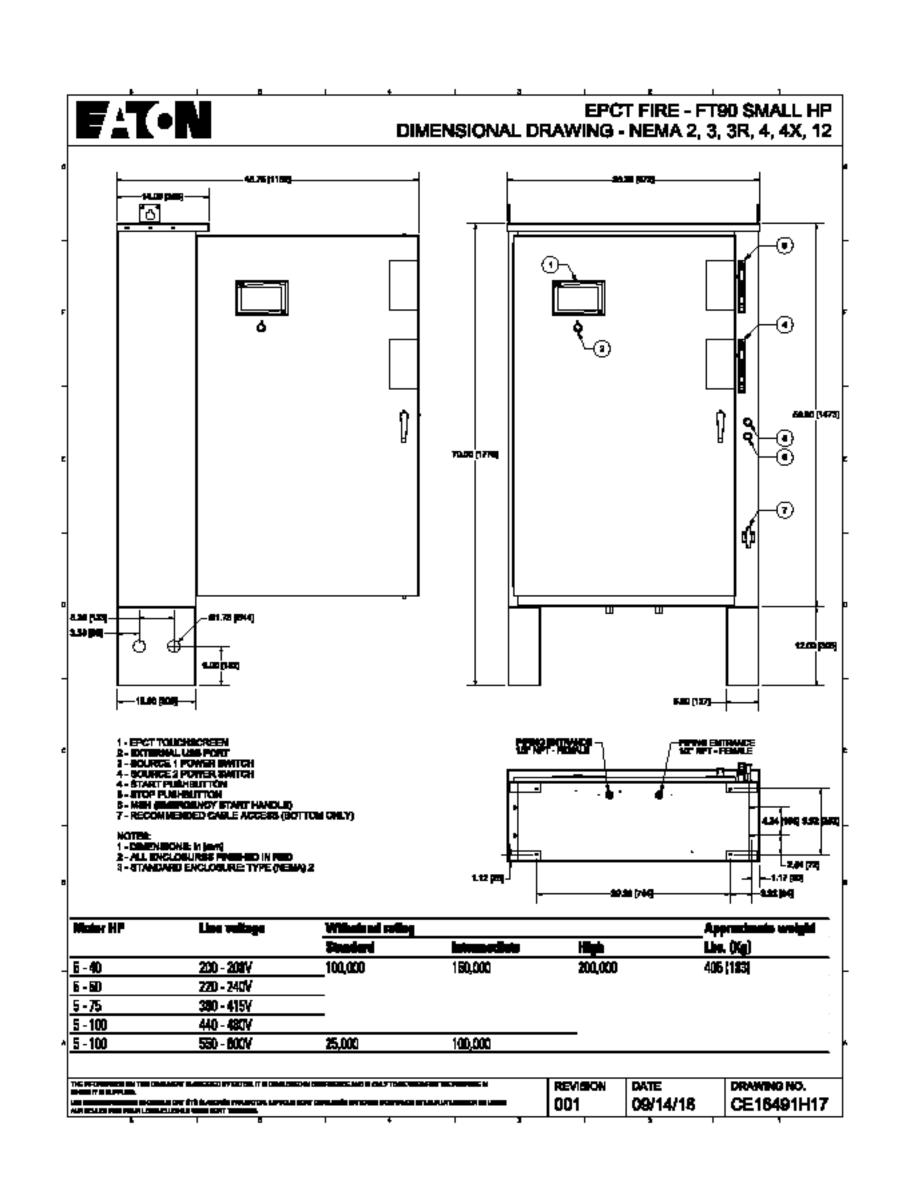


General Arrangement

PENTAIR Curte Date 27 Jun 1024

PENTAIR





Dewberry 2 Riverchase Office Plaza Suite 205 Hoover, AL 35244 (205) 988-2069 www.dewberry.com Project Number: 50181596

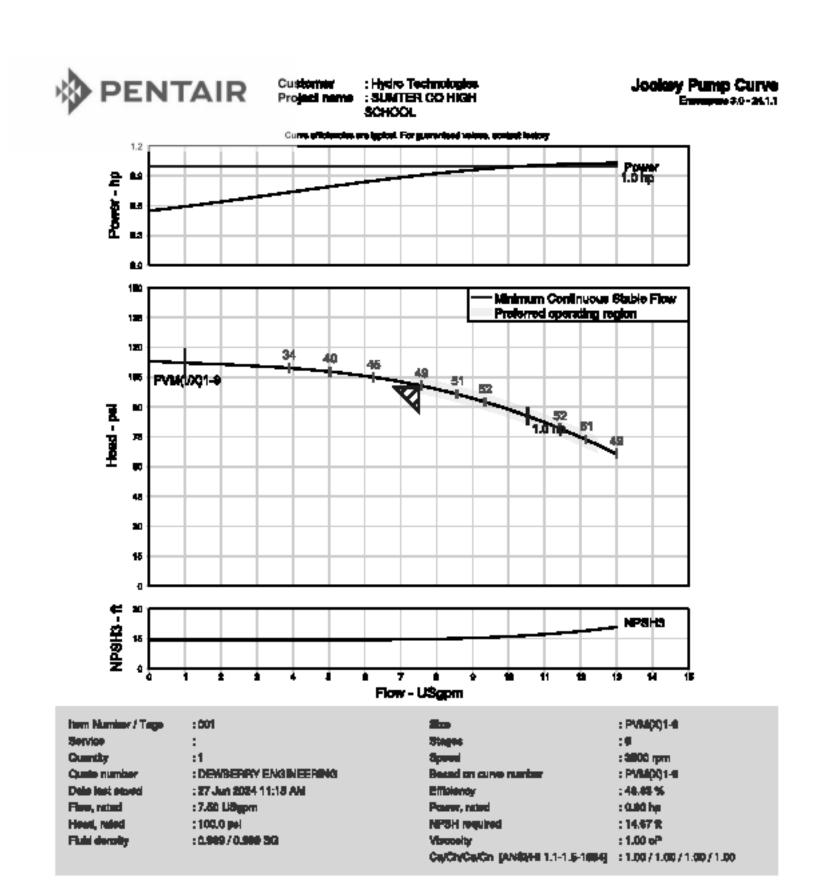


Eaton EPCT Fire

Touchscreen based electric fire pump controllers

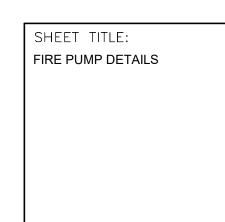












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ЈОВ NO. **24-38**

FP0.2





Product Description ACROSS THE LINE JOCIEY FUND CONTROLLERS The JOCICY Tauch - Jeckey Pump Carrivalius operate across-the-line. Full voltage is applied to the ractor for starting by the use of a single motor starter. Starting insuch current Universal Supply Voltage The controller will auto-defect three phone voltage supply from 2006/4C to 620/4C, SI/EStz and drigle phase from 110/4C to 240/4C, SI/EStz,

WYE-DELTA (Star-Delta) NEMA 2 Enclosures JOCICEY PUMP CONTROLLERS When six or to alre-lead delta connected jectory pump meters we started vya (star) cannected, approximately SPS of the voltage is applied to each wheting. The meter develops 33% of full-reliage starting torque and divise 32% of normal locked-rater current from the line. After an adjustable time delay (during which the meter occulentist).

Product Features

Commination Motor Controllers ALL JOCKEY Touch controllers are supplied with EATON combination mater controllers, which combine the drait breaker and supplied in one desice.

FAT-N

The rotary bundle mechanism can be padlocked in the CFT pachien. XT Power Centrels The JOCKEY Thruck - Jackey Pump Controllers incorporate Enton's XT Power Controls which are designed for the global numeriplose. The XT controls sarry global settings, we small in stream on antichie in a settle variety of apareting voltages. They are way to install and maintain, due to their modular, plug-in design.

क्षतिकार रोज करू में 4 क्यापने प्रकार-

NEWA SE 4 (A) 12

Color Touchscreen Display The JOCIEY Routh - Jodey Pump Controlless are supplied with a micro processor bestud, culor insuchstraten. war in months and program functions and values. Pressure input is provided by a 4-20егА решине овток.

ACROSS-THE-LINE (Direct On Line)

Technical Data

JOCKEY PUMP CONTROLLERS 309-300V 230-300V 300-413V 440-400V 350-400V 120V-17N 240V-17N

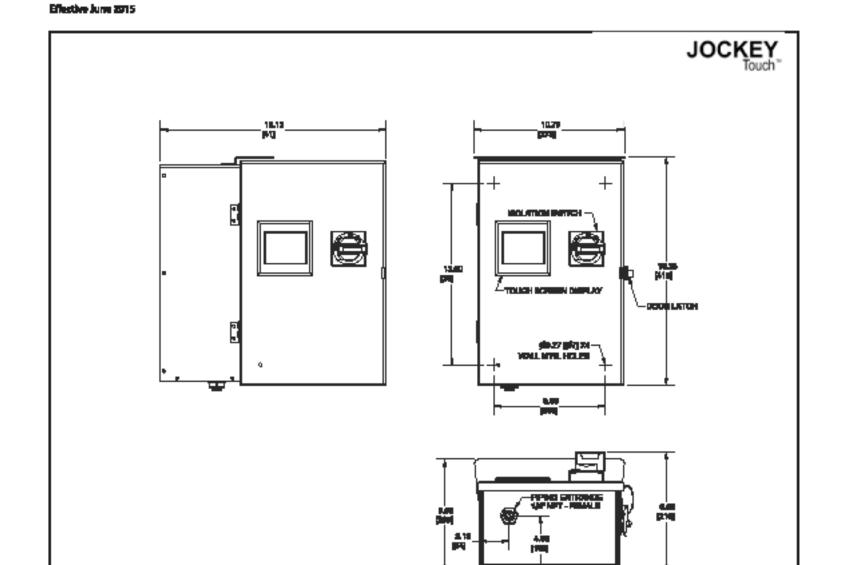
Enclosures have no over bailed powder point fields and we supplied with NEMA 2 rating, unless exhaustes WYE-DELTA (Stur-Delta) JOCKEY PUMP CONTROLLERS urdensi. Avallakie aptices Include: 200-2004 220-2004 300-415V 440-400V 550-600V

Imputs, Outputs, Timors and Virtual 1/3-48% 1/3-48% 1/3-68 LEU's are programmable via the tauchstress display.

Starting Methods
There are four methods of starting
the controller: Auto, Hund, Remote
Start and Pump Start. Standards & Certification Diagno**stics/Shristics**

The ACCIEY Reach - Justing Pump Controllers must the requirements of the latest californ of NFTA 20 or well as according CE assets requirements. Eight diagnactics and seven statistics parameters can be monitored. They meet or occural the require-ments of UL 500 (Underentiess Laboratories (UL)) and are approved by [Corsection Standards Association Four alarm sulptime can be pregrammed from the Altum Septemb

● € €

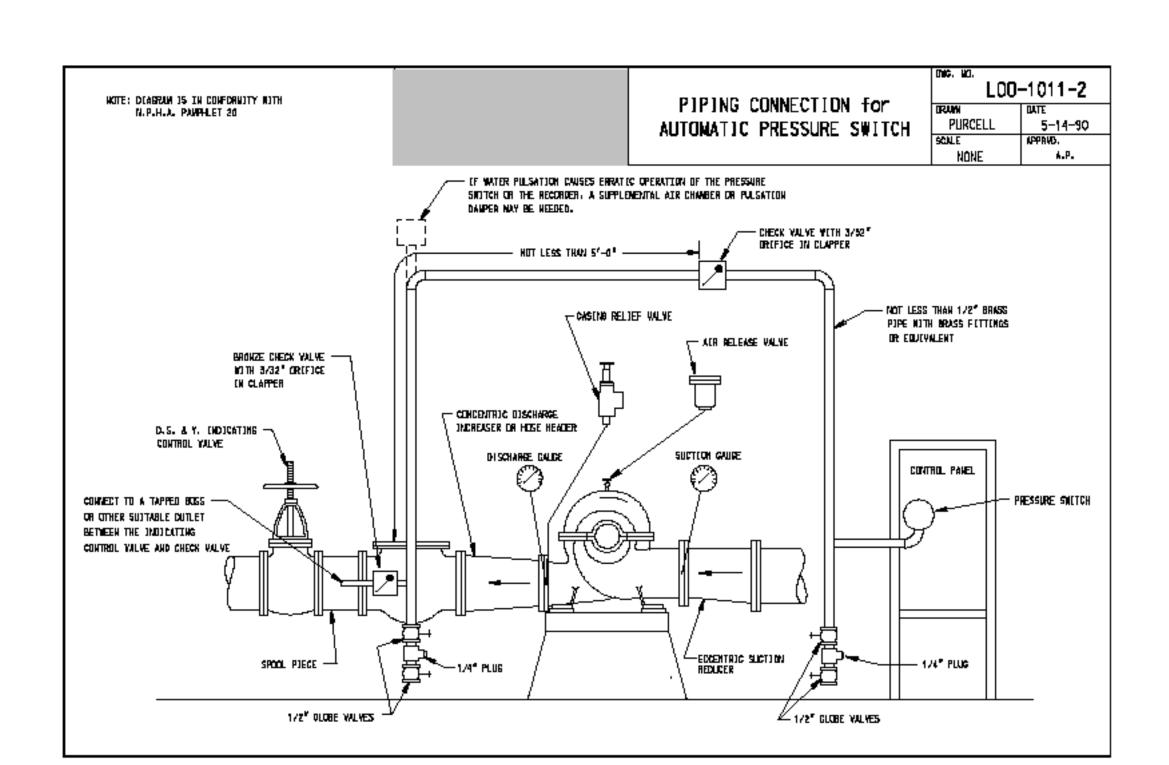


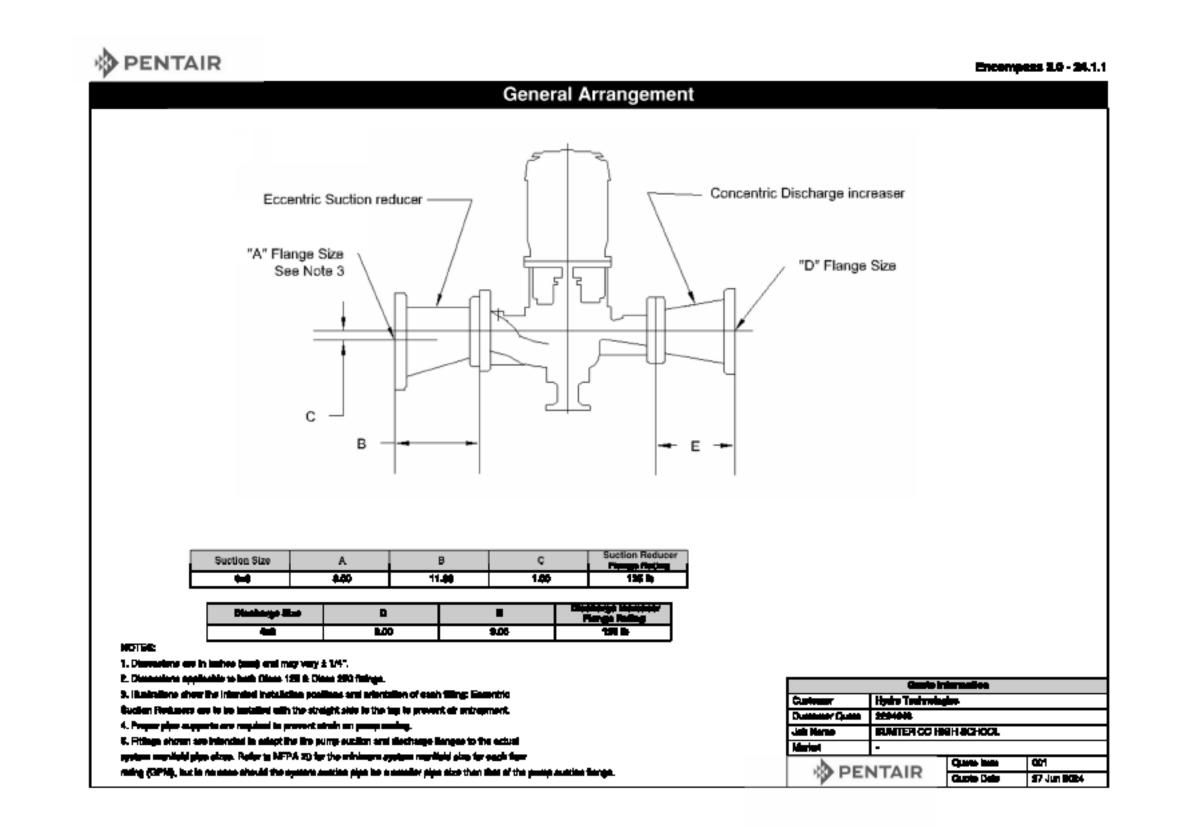
200-20#V		220-240V		380-415V		440-480V		550-600V	
Meter Hp	Make the Co.	Meter Hp	Making (ch)	Motor Hp	Milestone Making (194)	Motor Hp	Market (100)	Motor Hp	Anthony (EV)
0.35 - 0.73 1 - 2 5 - 4 5 - 15	50 45 42 18	0.35 - 0.73 1 - 9 4 - 5 7,5 - 10	50 45 42 18	0,55 - 1,5 2 - 5 7,5 10 - 15	50 65 42 18	0,58-2 5-5 7,3-10 15-20	16 62 16	0.55 - 7.5 16 - 30	50 10 P

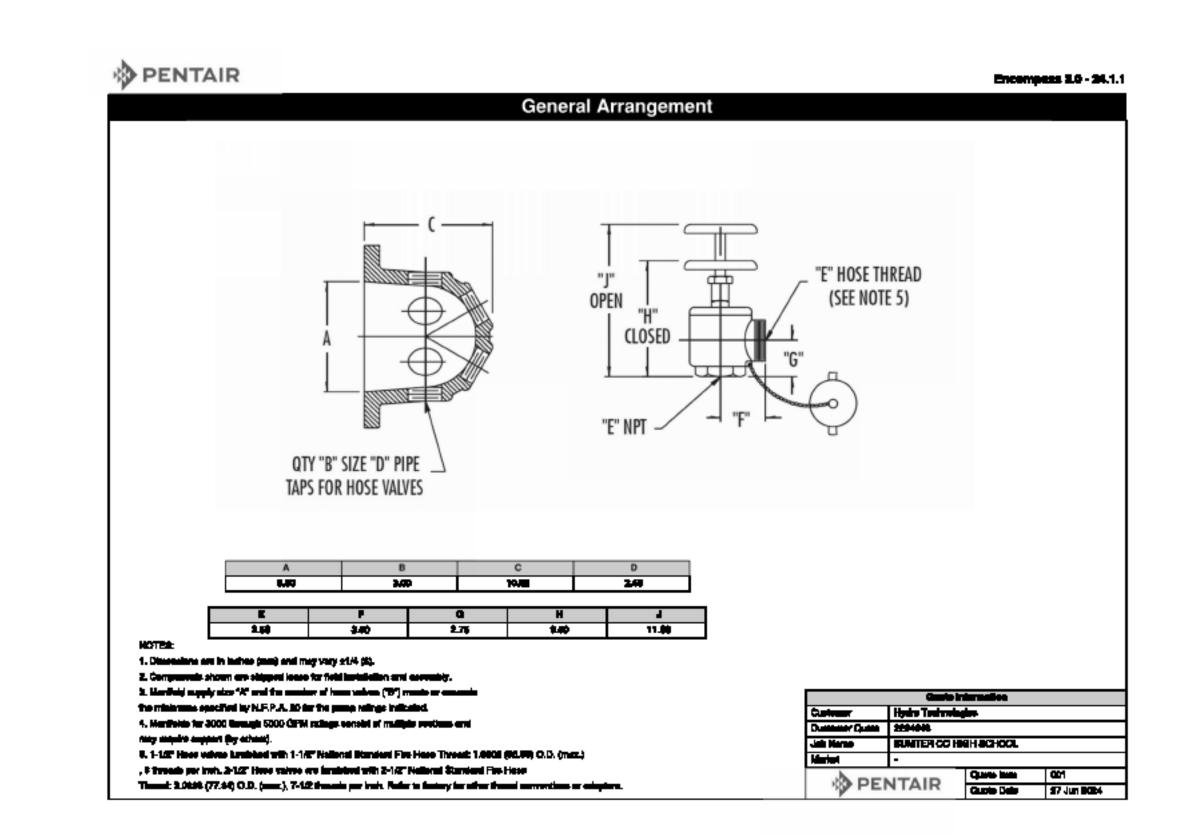
120V 1ph		206V 1ph		240V 1ph		Appens, Weight
Meter Hp	A STATE OF THE PARTY.	Motor Hp	Maring (SA)	Motor Hp	Withstand Buting (IoV)	Line (Kg)
033-05 075-1 15-2	65 42 18	035-1 15-2 3-4	55 42 16	0.33 0.5-1.5 2 3-5	50 85 42 18	10 (4)

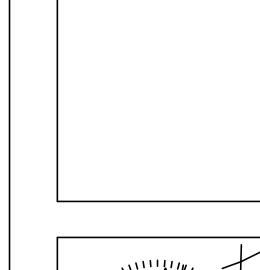
Technical Data MD081001EN Standard Enclosure - Type NEMA 2

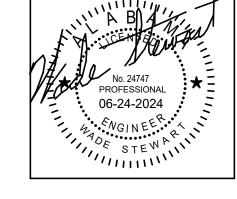


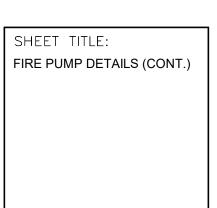




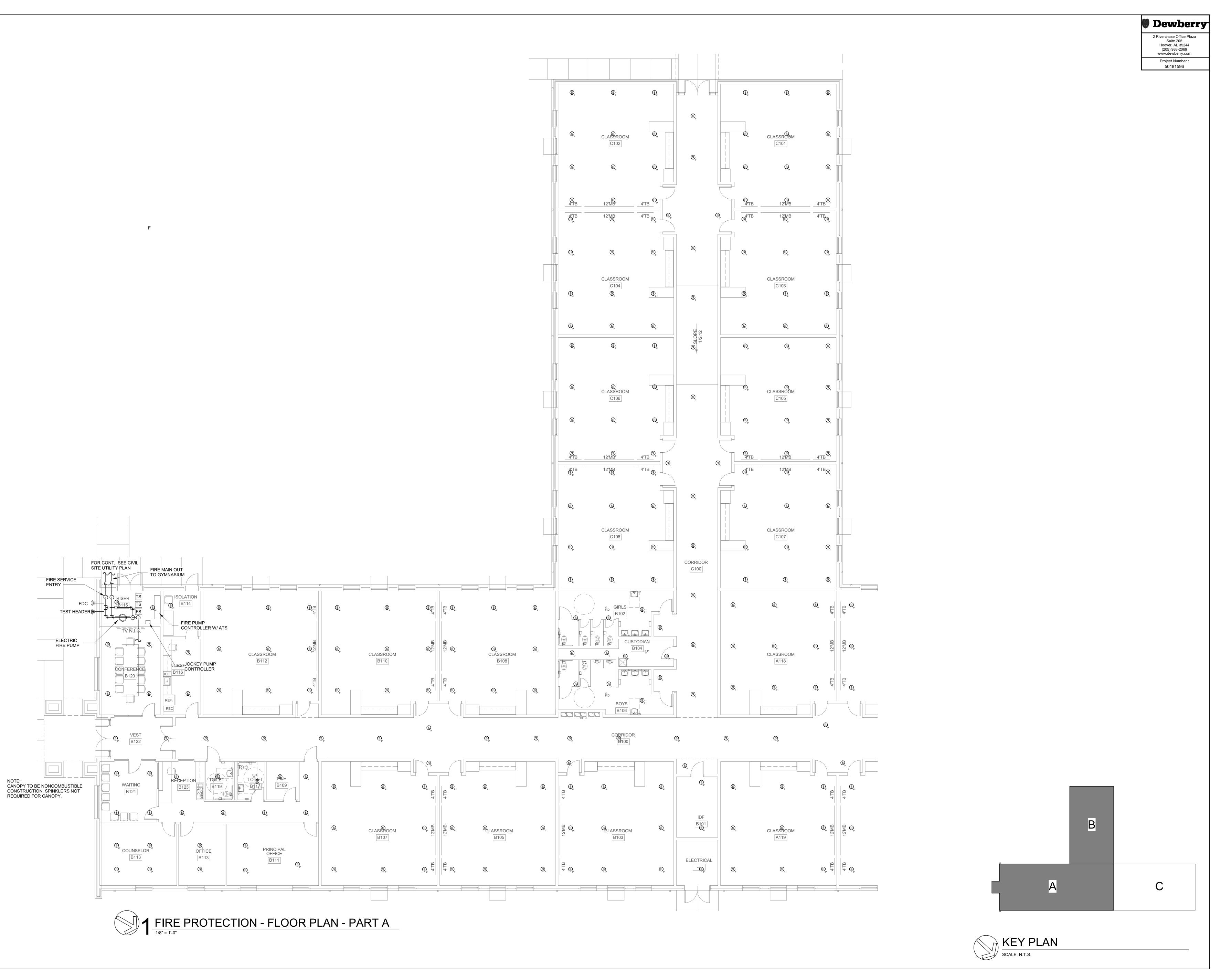








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LATHAN ARCHITECTS

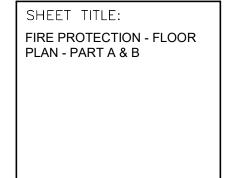
ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL

13878 US HIGHWAY 11, YORK, AL 36925

SUMTER COUNTY BOARD OF EDUCATION





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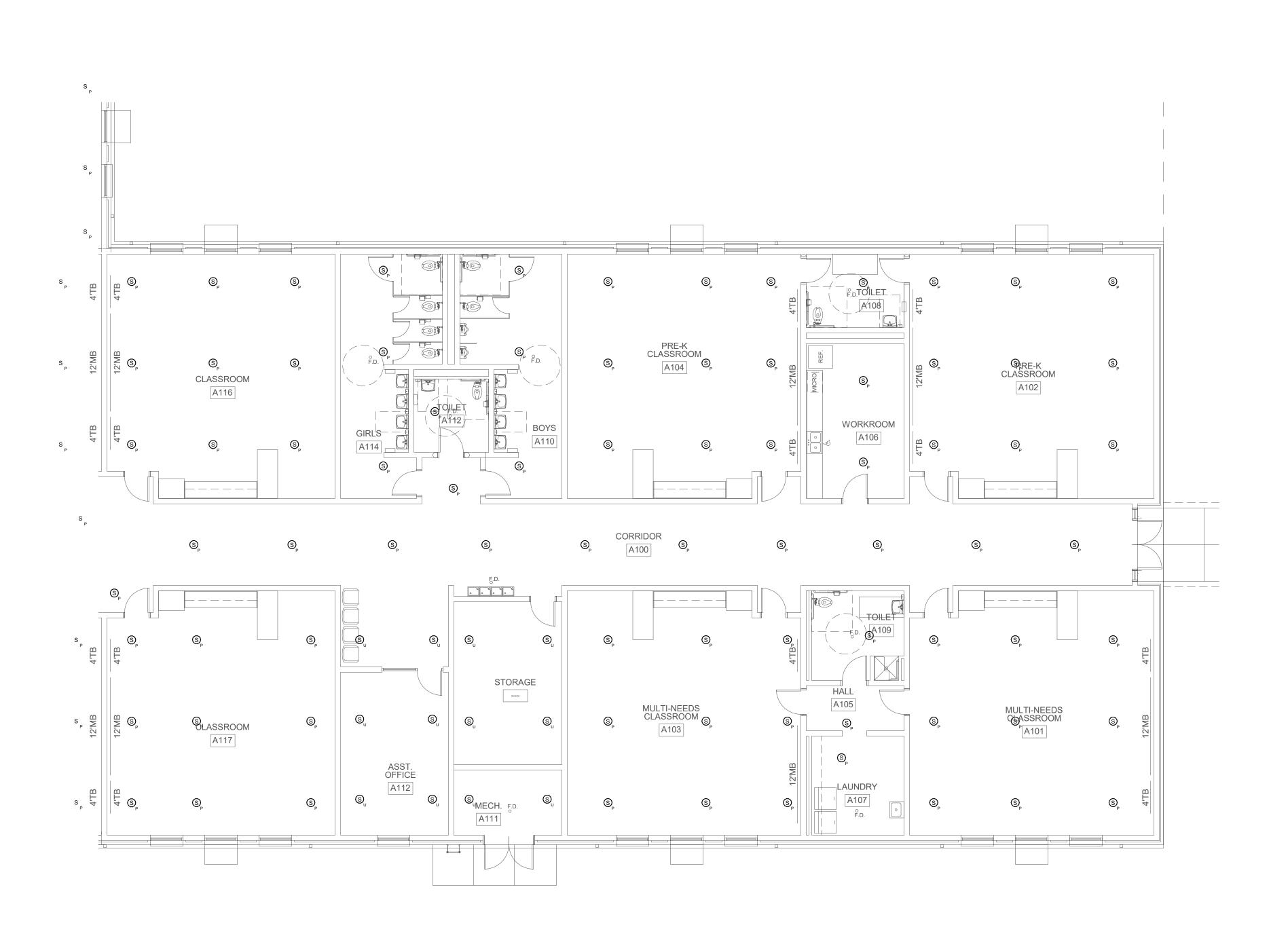
SHEET NO:

FP1.0

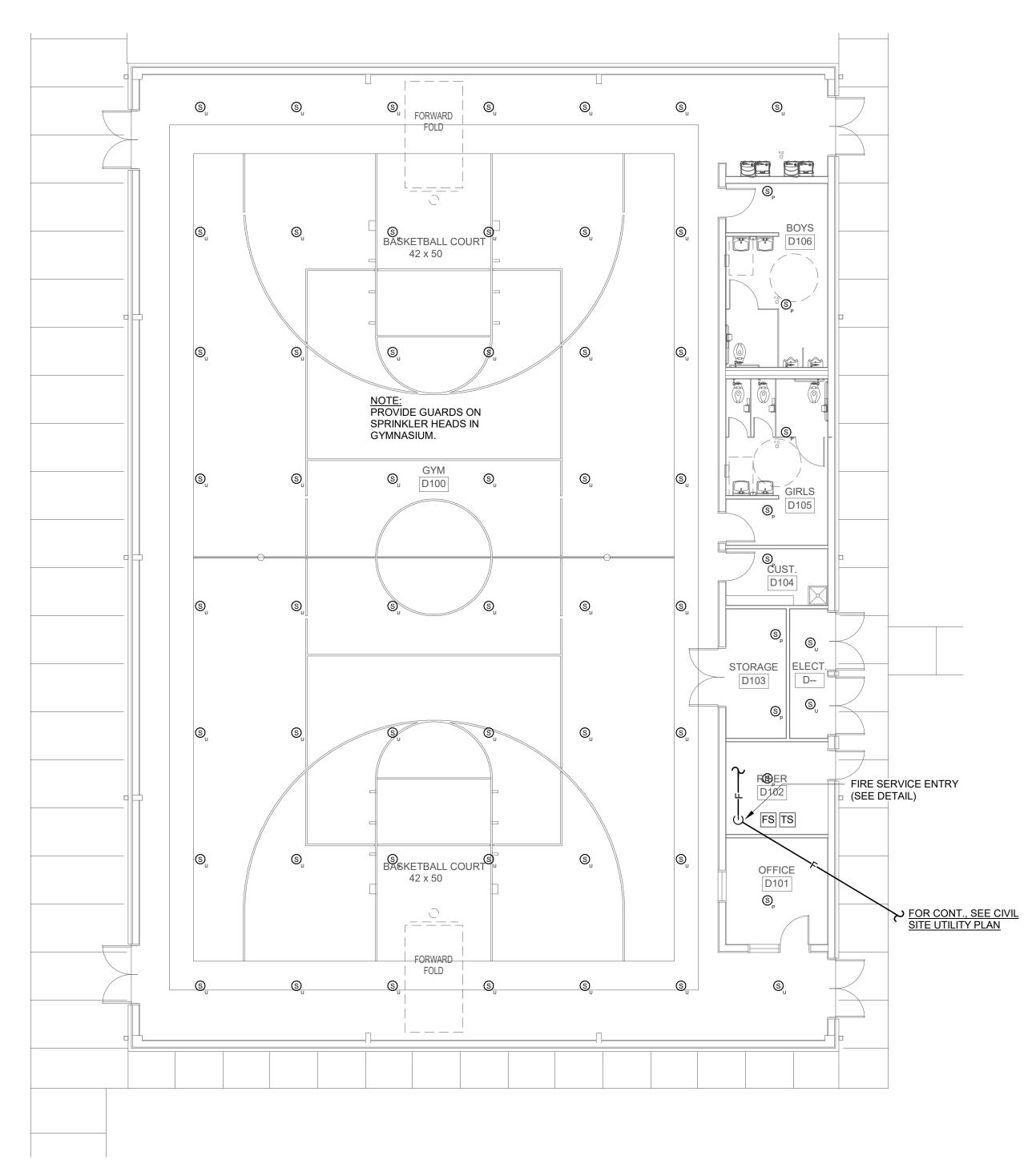
40F5





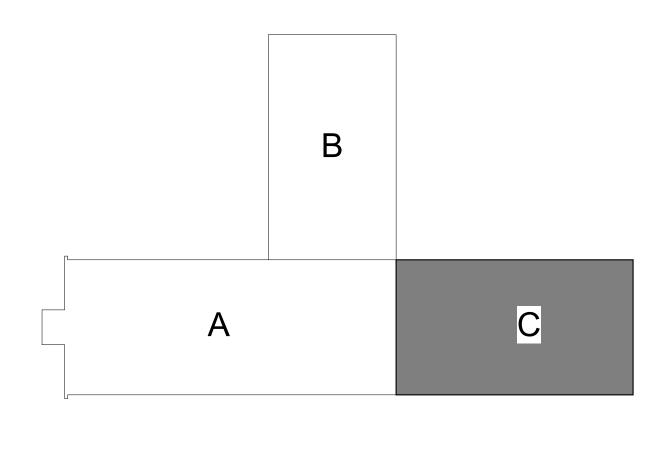


1 FIRE PROTECTION - FLOOR PLAN - PART C



2 FIRE PROTECTION - GYM FLOOR PLAN

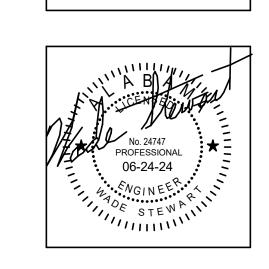
1/8" = 1'-0"





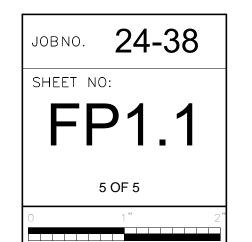
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GENERAL NOTES		PLUM	BING	LEGEND		
1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.		DOMESTIC COLD WATER	<u> </u>	CHECK VALVE	DN	DOWN
2. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL		DOMESTIC HOT WATER SUPPLY	PRV	PRESSURE RELIEF VALVE	WH - #	WATER HEATER
EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.		DOMESTIC HOT WATER RETURN	СО	CLEANOUT	GPH	GALLONS PER HOUR
ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X16" THICK CONCRETE PAD. (J.R. SMITH 4258 OR EQUAL.)		SOIL, WASTE, OR SANITARY SEWER	FD	FLOOR DRAIN	GPM	GALLONS PER MINUTE
WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.		VENT	FS	FLOOR SINK	HW	HOT WATER
. ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON		PIPE TURNING DOWN	P-#	PLUMBING FIXTURE	HWR	HOT WATER RETURN
PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.		PIPE TURNING UP	WH	WALL HYDRANT	TYP	TYPICAL
. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.		TEE DOWN	ABV	ABOVE	VS	VENT STACK
. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.	—————	TEE UP	AFF	ABOVE FINISHED FLOOR	VSTR	VENT THROUGH ROOF
. ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH		UNION	BFP	BACKFLOW PREVENTER	MFD	MECHANICAL FLOOR DRAIN
GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.		BALANCE VALVE	BFF	BELOW FINISHED FLOOR	ws	WASTE STACK
. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.	<u> </u>	BALL VALVE	CW	COLD WATER	НВ	HOSE BIBB
0. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR	#	RISER NUMBER				

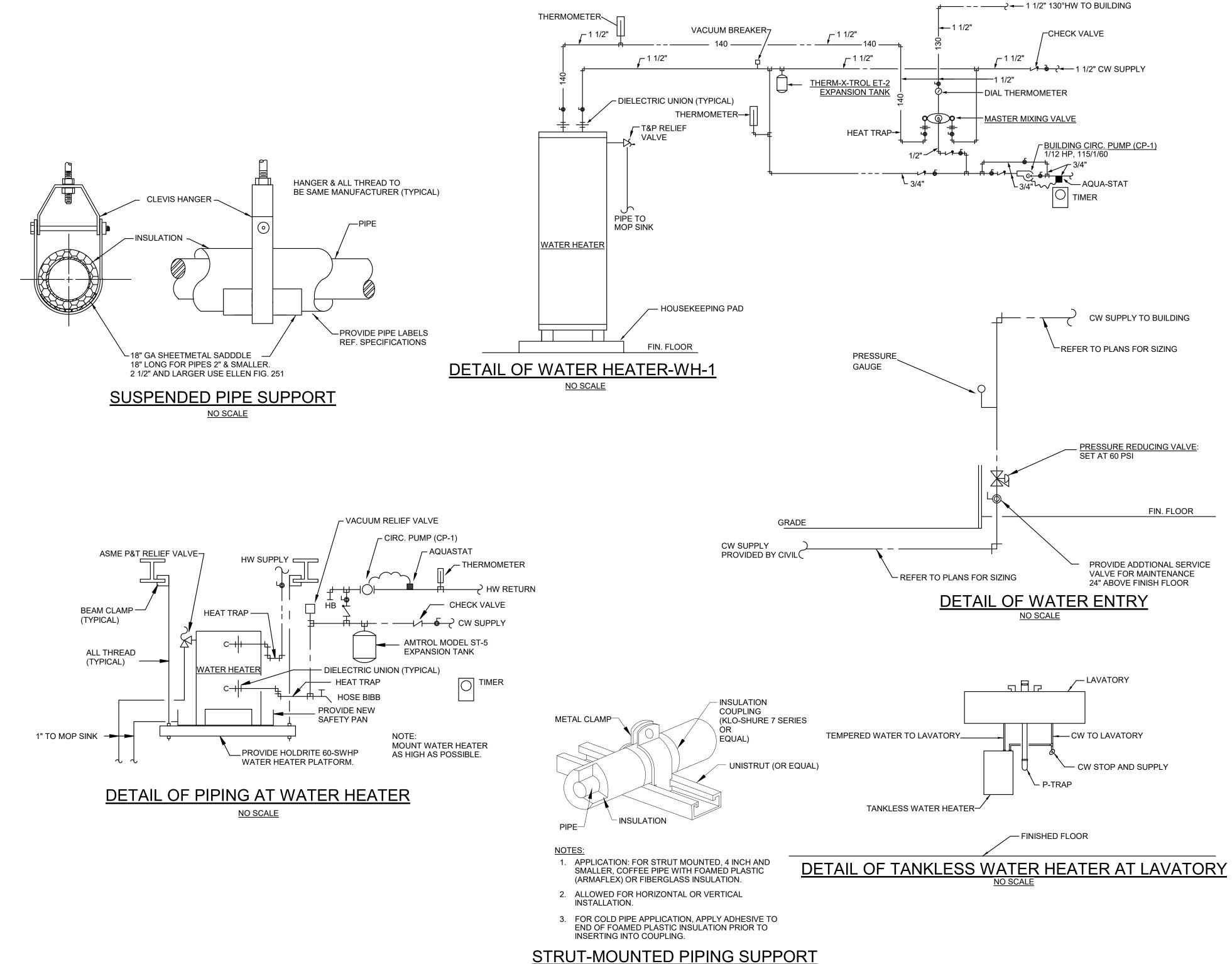
CLEANOUT—PLUG	ROUND CHROME COVER PLATE —WALL OR PARTITION
	SOIL OR WASTE PIPE
	WALL CLEANOUT NO SCALE

WAL	SOIL OR WASTE PIPE L CLEANOUT NO SCALE		
	U U	E101 ROOM SHELTER	
	E102 ROOM SHELTER	TWH-1 E104 E105 P-15 P-15 P-15	
		E103 ROOM SHELTER	
		E106 ROOM SHELTER TWH-1 F109 F110	
	E107 ROOM SHELTER	P-15 TOILET P-15 TOILET	
		E108 ROOM SHELTER	

	U U	
		E101 ROOM SHELTER
	E102 ROOM	TWH-1 E104 E105 P-15 P-15
•	ROOM SHELTER	
		E103 ROOM SHELTER
	п п	
		E106 ROOM SHELTER
	E107 ROOM SHELTER	TWH-1
		E108 ROOM SHELTER

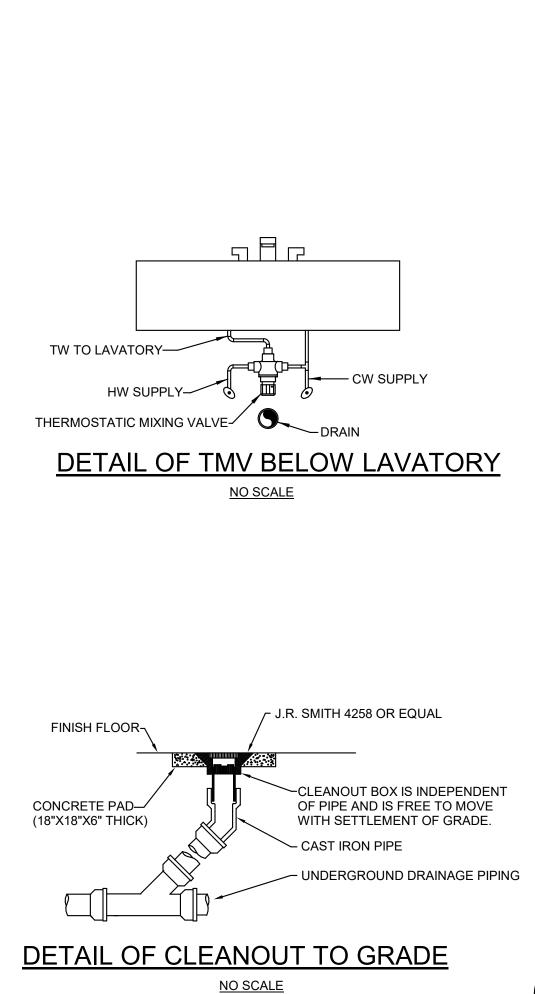
					PLUMBING FIXTURE SCHEDULE
MARK	FIXTURE	WASTE	CW	HW	REMARKS
IVIAIN	TIXTORE	WASIL	CVV	1100	INLIMATIO
FD	FLOOR DRAIN	SEE PLAN	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS	FLOOR SINK	SEE PLAN	-	-	J.R. SMITH #3100, 8" SQUARE, PORCELAIN ENAMELED CAST IRON INTERIOR WITH 3/4 CAST IRON PORCELAIN ENAMELED GRATE AND DOME BOTTOM STRAINERS. PROVIDE WITH J.R. SMITH TRAP INSERT.
MFD	MECHANICAL FLOOR DRAIN	SEE PLAN	-	-	J.R. SMITH #2240 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
P-1	WATER CLOSET - ADA COMPLIANT	4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-2	WATER CLOSET	4"	1"	-	FLOOR MOUNTED - KOHLER K-96053-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL #2155 SSC SEAT.
P-3	URINAL - ADA COMPLIANT	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET. SET LIP 17" AFF.
P-4	URINAL	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET.
P-5	LAVATORY - ADA COMPLIANT	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-6	LAVATORY	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET.
P-7	DOUBLE BOWL SINK	1 1/2"	1/2"	1/2"	ELKAY LRAD-3321, LK-35 STRAINERS, SYMMONS S-23-3 FAUCET WITH SPRAY. MCGUIRE #8912 P-TRAP, CONTINUOUS WASTE OUTLET, AND #165 STOPS WITH SUPPLIES.
P-8	MOP SINK	3"	1/2"	1/2"	STERN WILLIAMS #SBC-1700 (24" X 24") COMPLETE, T-35 HOSE WITH WALL HOOK, STAINLESS STEEL BACKSPLASH AND CHICAGO FAUCET #897 FAUCET.
P-9	REF. ICE MAKER BOX	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. PROVIDE IN WALL BEHIND REFRIGERATOR A GUY GRAY MODEL "B" 16 GAUGE ALL METAL BOX LESS DRAIN AND SUPPLIES. PROVIDE IN BOX A 1/2" BALL VALVE WITH 10 FEET OF 1/4" SOFT COPPER COILED IN BOX FOR CONNECTION TO REFRIGERATOR ICE MAKER.
P-10	WASHING MACHINE BOX (RESIDENTIAL)	1 1/2"	1/2"	1/2"	GUY GRAY # WB-200. PROVIDE SHOCK ARRESTORS PDI SIZE "B" ABOVE CEILING ON HOT AND COLD WATER LINES.
P-11	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY # EZSTL8WSSK BI-LEVEL WATER COOLER WITH BOTTLE FILLER STATION. COMPLETE WITH STAINLESS STEEL CABINET AND WATERWAYS THAT ARE MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT EBC TA150 P-TRAP AND EBC LA10 STOP WITH SUPPLY. FULLY INSULATE P-TRAP WITH EBC IK INSULATOR. INSTALL WITH LOWER SPOUT OUTLET MAXIMUM 36" AFF. MUST MEET A.D.A. INSTALL WITH BOTTLE FILLER. INSTALL COMPLETE. PROVIDE WITH ELKAY MODEL #LKAPREZL CANE APRON AS REQUIRED.
P-12	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY EZSTL8C BI-LEVEL, STAINLESS STEEL CABINET, WITH WATERWAYS MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT, BALL VALVE STOP WITH SUPPLY, SAFETY-GUAR BUBBLER. MCGUIRE #8872 P-TRAP. FULLY INSULATE P-TRAP. MOUNT WITH LOWER SPOUT OUTLET 36" ABOVE FINISH FLOOR. PROVIDE COLOR CHART FOR ARCHITECT COLOR SELECTION. PROVIDE WITH ELKA MODEL #LKAPREZL CANE APRON AS REQUIRED.
P-14	SHOWER - ADA COMPLIANT	SD	1/2"	1/2"	CHICAGO FAUCET 1907-CP THERMOSTATIC/PRESSURE BALANCING SHOWER VALVE, 151-ACP HAND SHOWER AND GRAB BAR, 763-CP DIVERTER VALVE, FIXED SHOWER HEAD, WITH BLADE HANDLE, AND TRIM. ADJUST FOR 109°F MAXIMUM TEMP. PROVIDE BACK PLATE.
P-15	WATER CLOSET - ADA COMPLIANT	4"	1/2"	-	FLOOR MOUNTED - KOHLER K-3493-SS-0 PRESSURE ASSISTED TANK TYPE WATER CLOSET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT. PROVIDE WITH MAGUIRE #LFBV2166 STOP AND SUPPLY.
P-16	ICE MACHINE	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION, ROUGH AND CONNECT COMPLETE, PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE(S) TO FLOOR DRAIN. PROVIDE WATTS LF9D ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.
P-17	SINK	1 1/4"	1/2"	1/2"	ELKAY LRAD-2219 DRAIN OFFSET TO BACK, LK-35 STRAINER, CHICAGO FAUCET #786-FC RIGID FAUCET, MCGUIRE #1912 P-TRAP AND #165 STOPS WITH SUPPLIES.
SD	SHOWER DRAIN	2"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R SMITH TRAP INSERT.
WH-1	WALL HYDRANT	-	3/4"	-	J.R. SMITH #5509-QT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED, ALL BRONZE BOX. VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.

			WATER HEATER SCHEDULE
MARK	FIXTURE	ELEC INFO.	REMARKS
CP-1	CIRCULATION PUMP	1/12 HP, 115/1/60.	ARMSTRONG COMPASS. PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
CP-2	CIRCULATION PUMP	1/12 HP, 115/1/60.	ARMSTRONG COMPASS. PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
ET-1	EXPANSION TANK		AMTROL THERM - X-TROL #ST-12 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
ET-2	EXPANSION TANK	-	AMTROL THERM - X-TROL #ST-5 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
MMV-1	MASTER MIXING VALVE	-	SYMMONS TEMPCONTROL 7-500A-W COMPLETE. WALL MOUNTING BRACKET. SET OUTLET TEMPERATURE AT 125°F.
TWH-1	TANKLESS WATER HEATER	208V, 1PHASE, 4.8KW.	EEMAX MODEL AM007240T WITH INTEGRAL ASSE 1070 MIXING VALVE. PROVIDES 68°F TEMP. RISE AT 0.5 GPM. MOUNT BELOW LAVATORY WHERE SHOWN ON DRAWINGS. PIPE TO HW INLET OF FAUCET.
TWH-1	TANKLESS WATER HEATER	208V, 1PHASE, 4.8KW.	EEMAX MODEL AM007240T WITH INTEGRAL ASSE 1070 MIXING VALVE. PROVIDES 68°F TEMP. RISE AT 0.5 GPM. MOUNT BELOW LAVATORY WHERE SHOWN ON DRAWINGS. PIPE TO HW INLET OF FAUCET.
TWH-1	TANKLESS WATER HEATER	208V, 1PHASE, 4.8KW.	EEMAX MODEL AM007240T WITH INTEGRAL ASSE 1070 MIXING VALVE. PROVIDES 68°F TEMP. RISE AT 0.5 GPM. MOUNT BELOW LAVATORY WHERE SHOWN ON DRAWINGS. PIPE TO HW INLET OF FAUCET.
WH-1	ELECTRIC WATER HEATER	208V, 1PHASE, 4.5 KW.	LOCHINVAR LTD-40JK, 40 GALLON STORAGE, 19 GALLON RECOVERY AT 100°F RISE. NEW P&T RELIEF VALVE. SET OUTLET TEMPERATURE AT 130°F. INSTALL AS DETAILED ON DRAWINGS. VERIFY VOLTAGE WITH ELECTRICAL SECTION.
WH-2	ELECTRIC WATER HEATER	208V, 1PHASE, 4.5 KW.	LOCHINVAR LTJ-20JK, 20 GALLON STORAGE, 19 GALLON RECOVERY AT 100°F RISE. NEW P&T RELIEF VALVE. SET OUTLET TEMPERATURE AT 125°F. INSTALL AS DETAILED ON DRAWINGS. VERIFY VOLTAGE WITH ELECTRICAL SECTION.



INSULATION COUPLING DETAIL

NO SCALE



11. DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE

12. CONTRACTOR SHALL COORDINATE MECHANICAL FLOOR DRAIN LOCATIONS

13. CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON ALL BRANCH LINES.

14. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO

15. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR WALLS.

17. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING

16. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION

18. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF

19. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.

SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE

20. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.

22. THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE

23. WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER

24. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR

25. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND

27. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED

BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.

28. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS

29. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING

30. ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED

31. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL

33. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF

FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.

26. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.

GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.

DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.

32. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.

REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL

APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT,

CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER

ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER

18" FROM FINISH WALL TO CENTER OF WATER CLOSET.

ARRESTORS SHALL CONFORM TO ASSE 1010.

TRADES BEFORE PREPARING SHOP DRAWINGS.

INTAKES, PER CODE. COORDINATE WITH MECHANIAL AND GENERAL

CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.

WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.

CONTRACTORS.

ORDERING SINKS.

AS PER CODE.

CLEARANCES.

TRUSSES FOR FREEZE PROTECTION.

21. NO JOINTS IN WATER PIPING BELOW SLAB.

PLUMBING - STORM SHELTER FLOOR PLAN

Dewberry

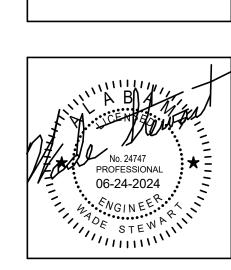
2 Riverchase Office Plaza Suite 205 Hoover, AL 35244 (205) 988-2069

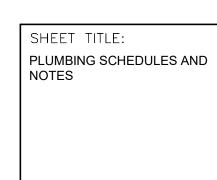
www.dewberry.com

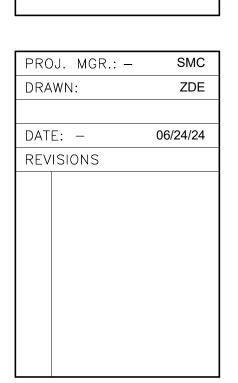
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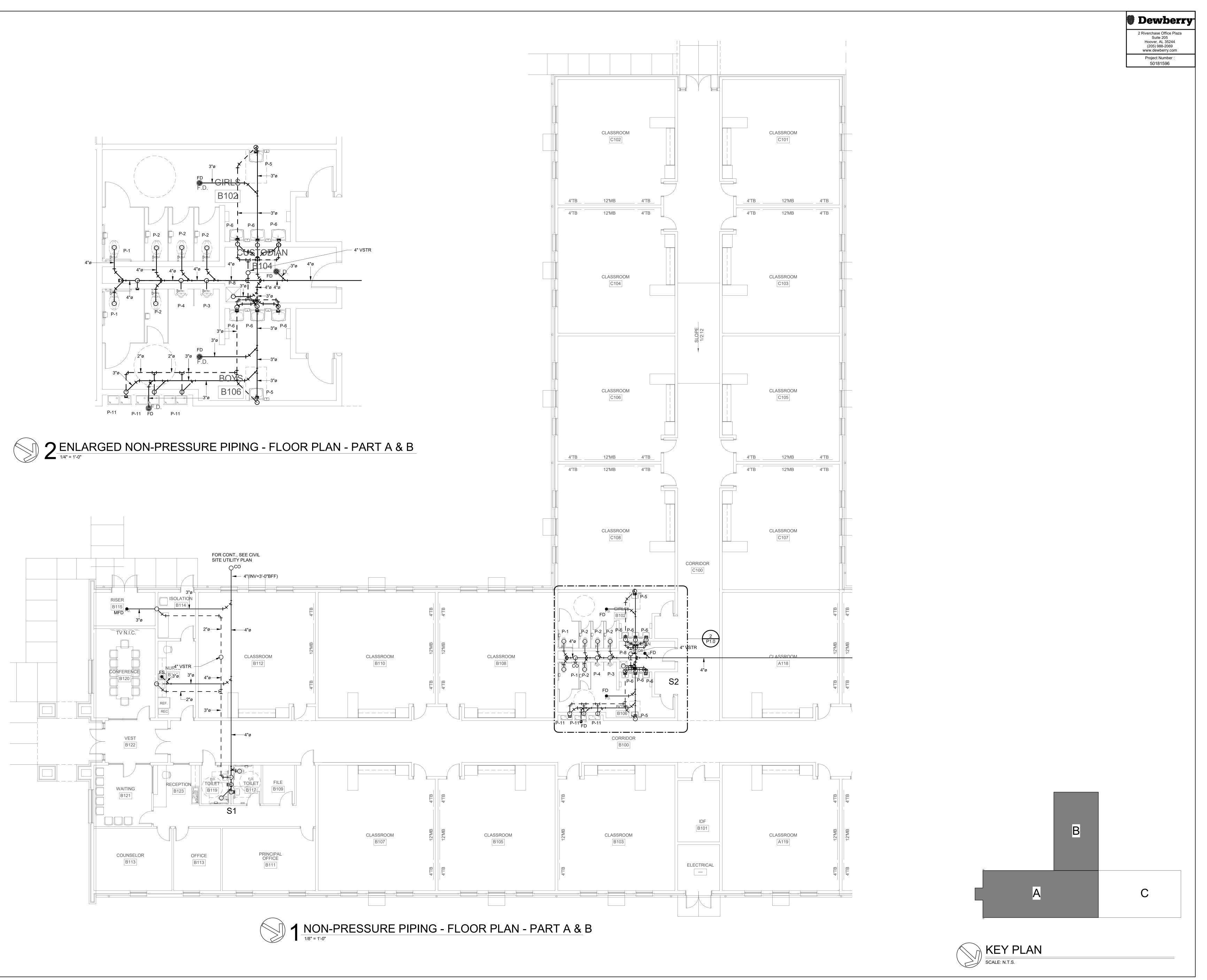
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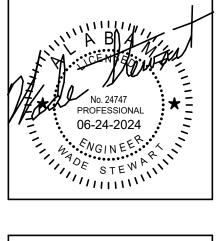


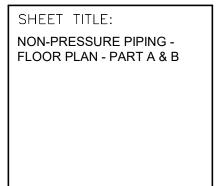


JOBNO. **24-38** SHEET NO: P0.01 1 OF 7



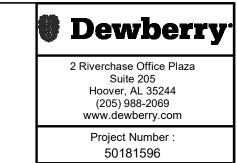
ELEMENTARY ADDITION TO SUMTER CENT SUMTER COUNTY BOARD OF

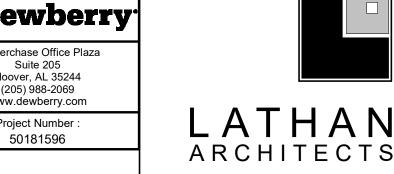


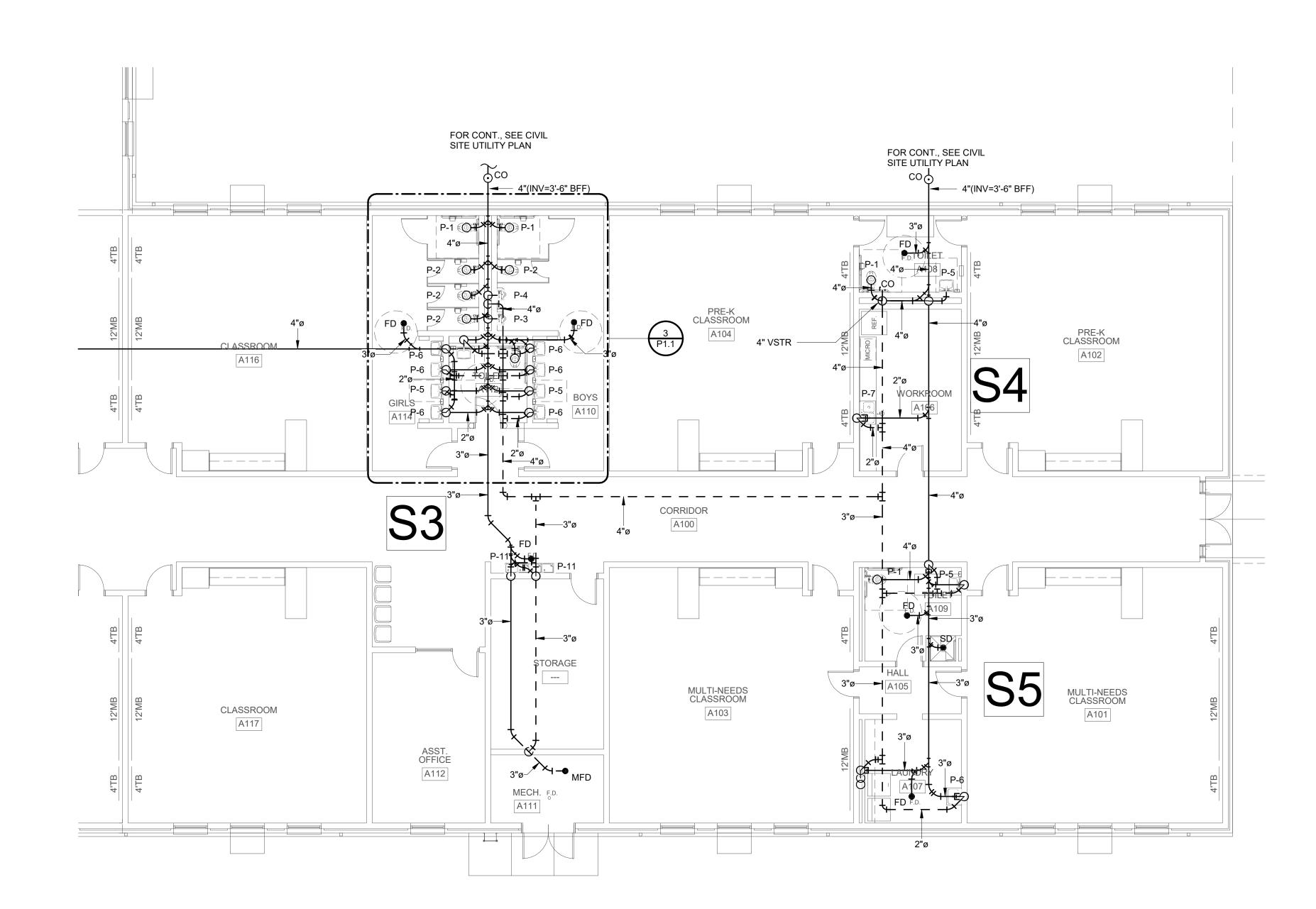


PROJ. MGR.: -	SMC
DRAWN:	ZDE
DATE: -	06/24/24
REVISIONS	

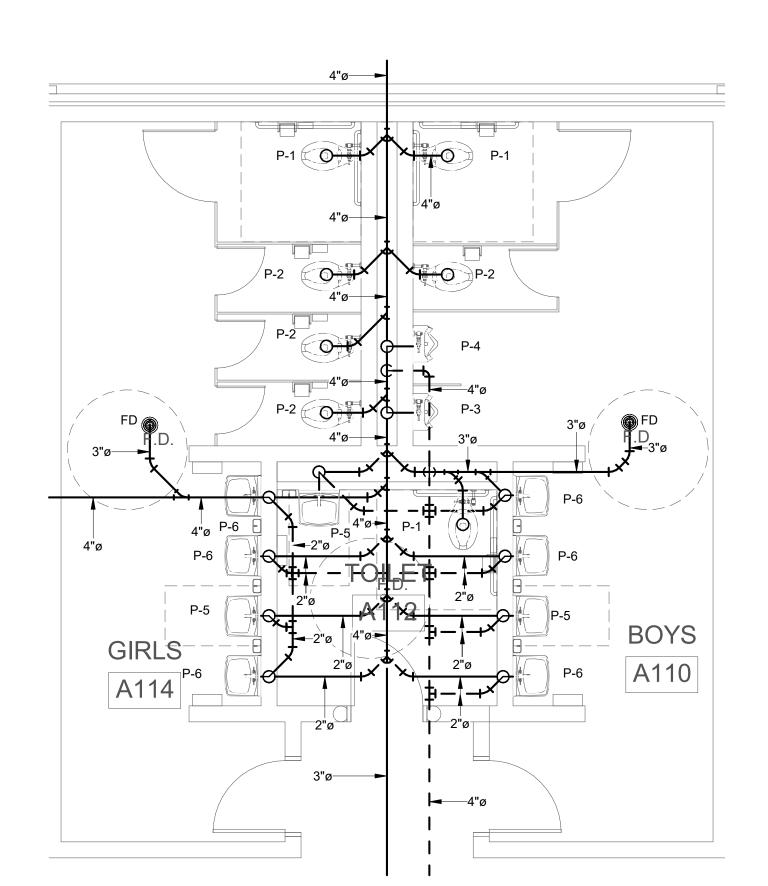
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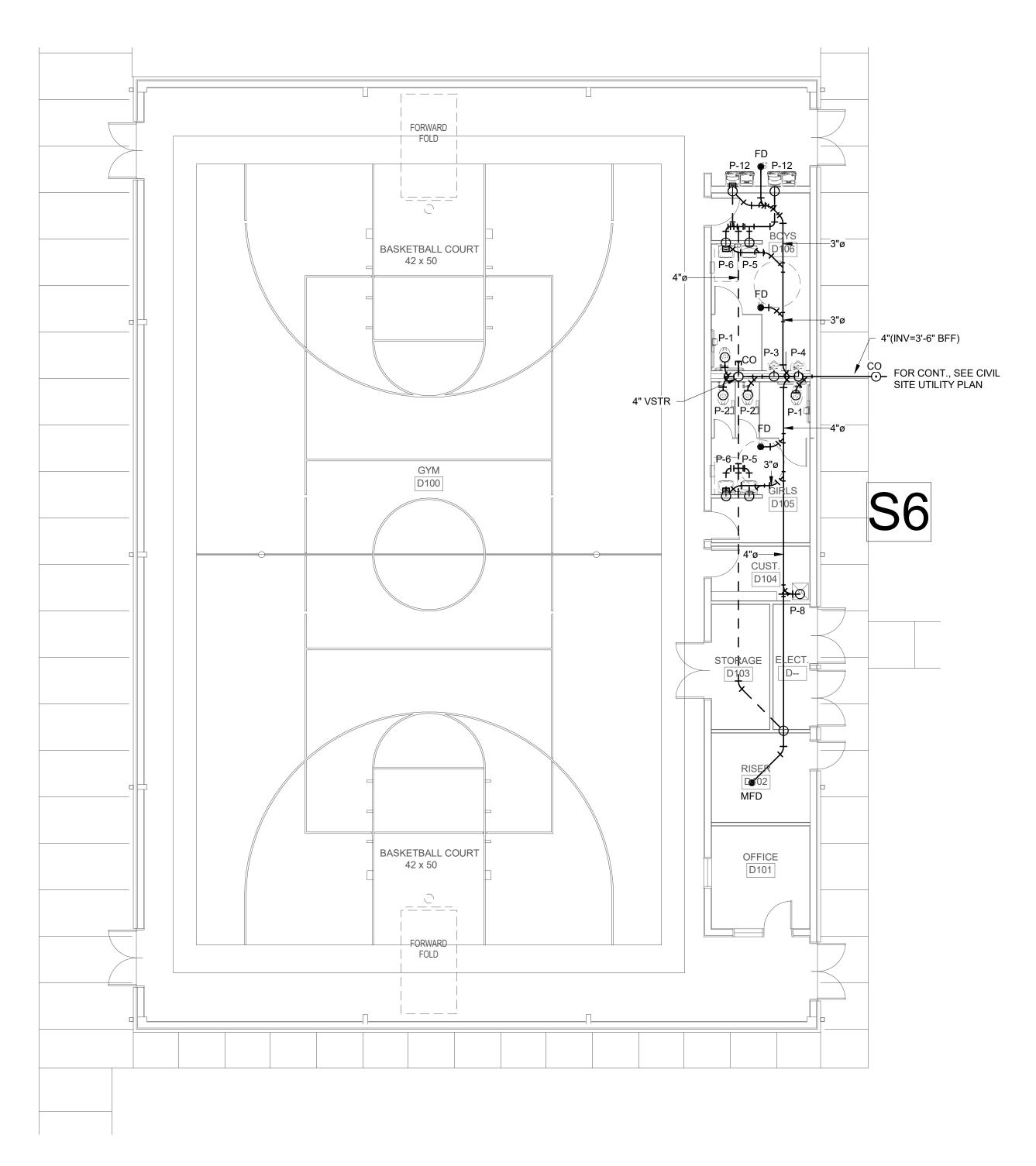




1 NON-PRESSURE PIPING - FLOOR PLAN - PART C

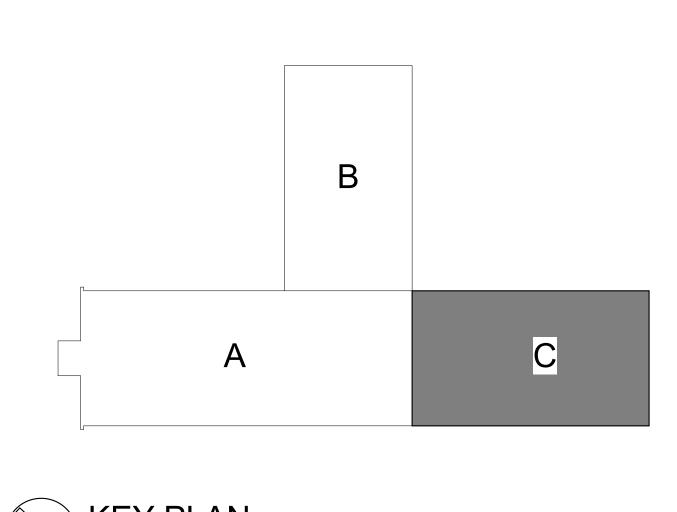


3 ENLARGED NON-PRESSURE PIPING - FLOOR PLAN - PART C



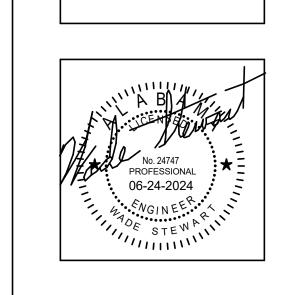
2 NON-PRESSURE PIPING - GYM FLOOR PLAN

1/8" = 1'-0"

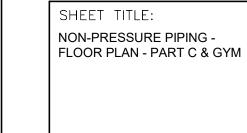


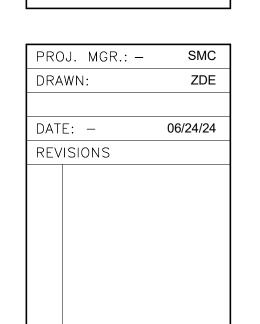
P1.1 KEY PLAN

SCALE: N.T.S.



ELEMENTARY ADDITION TO SUMTER COUNTY BOARD OF



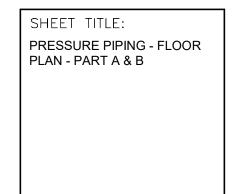


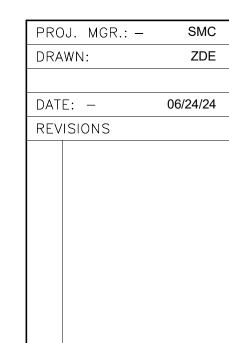
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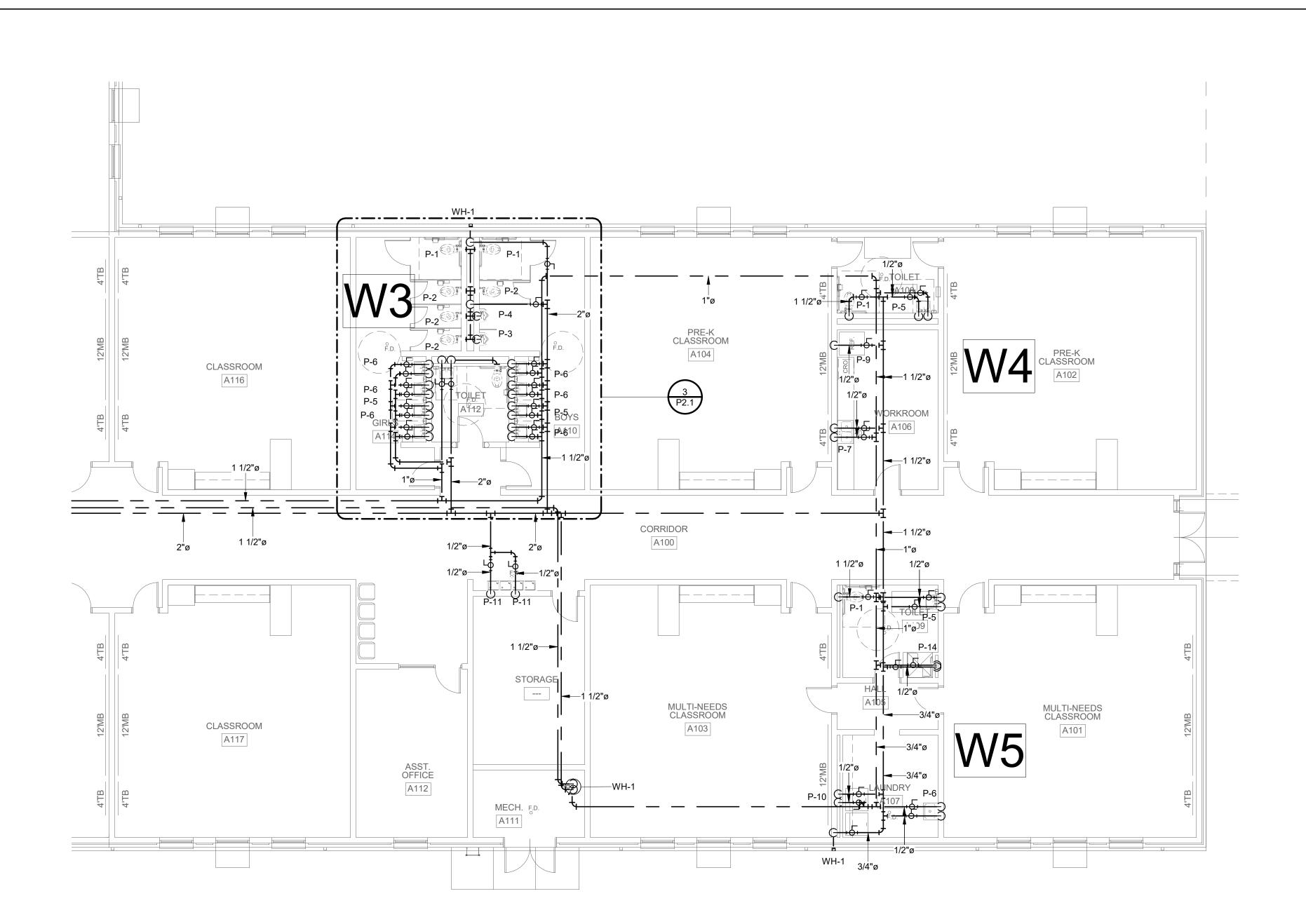
SUMTER CENT 13878 US HIGHWAY 11, YORK SUMTER COUNTY BOARD OF



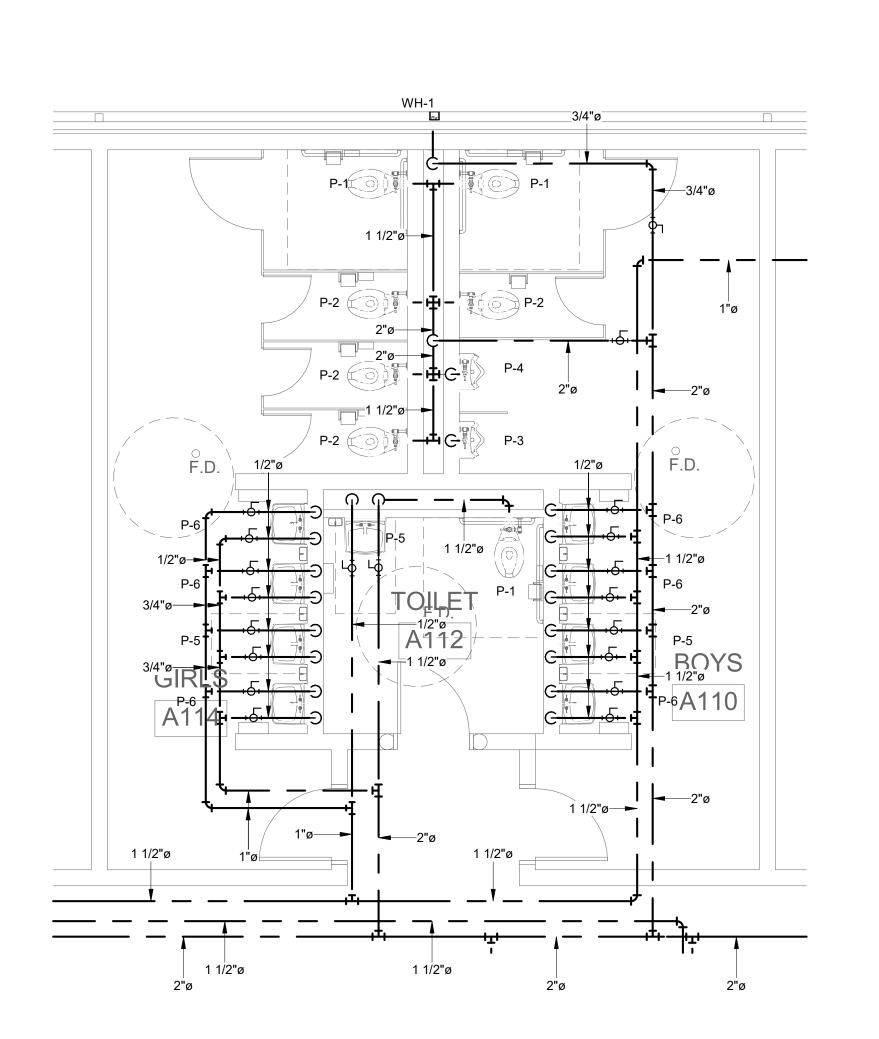




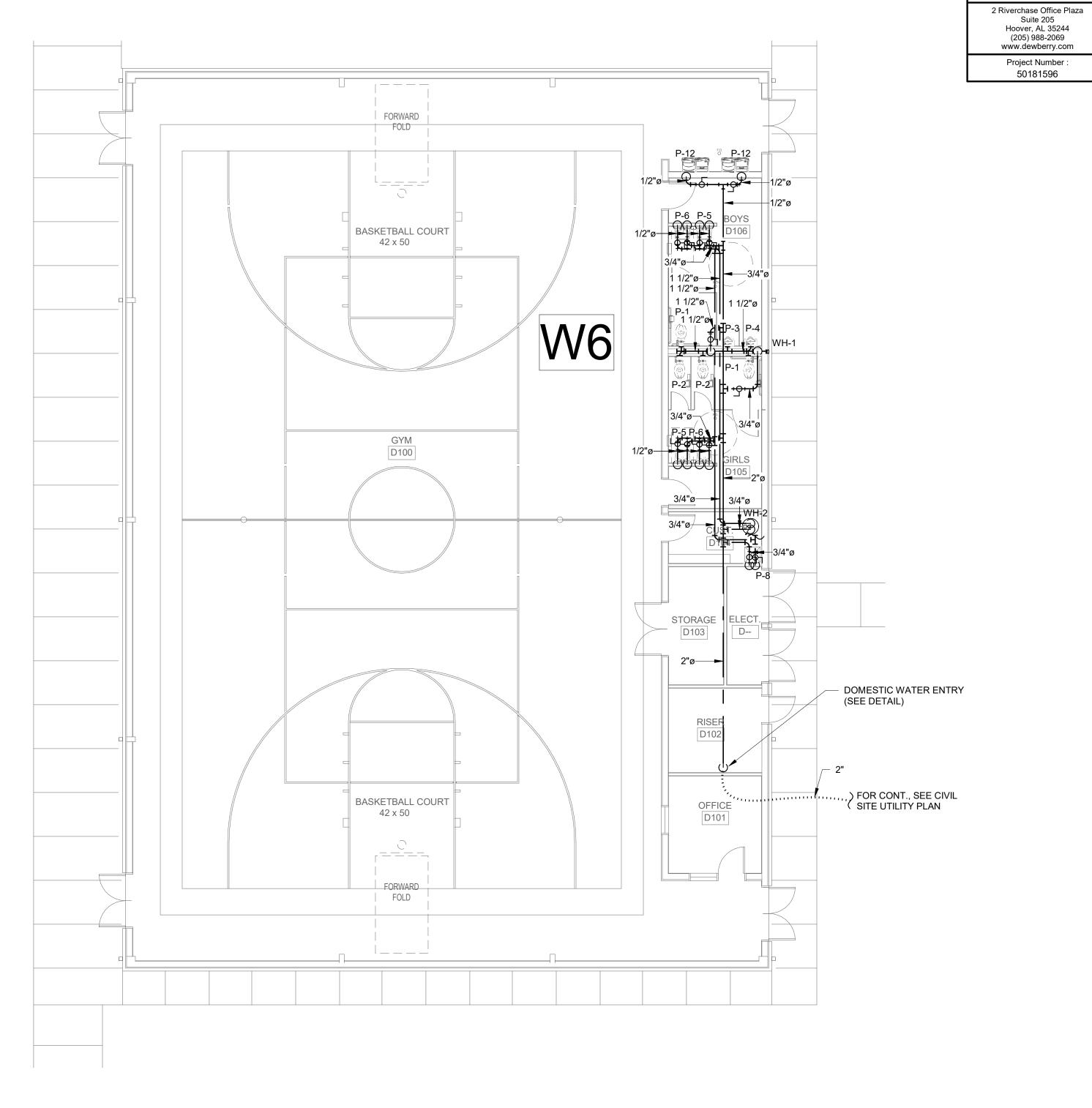
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PRESSURE PIPING - FLOOR PLAN - PART C

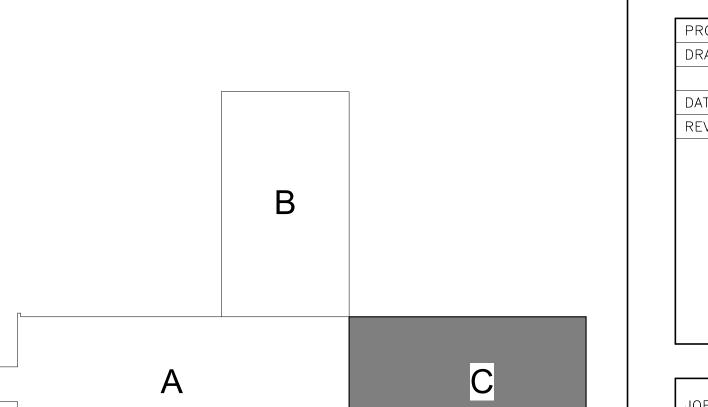


3 PRESSURE PIPING - ENLARGED FLOOR PLAN AREA B



2 PRESSURE PIPING - GYM FLOOR PLAN

1/8" = 1'-0"



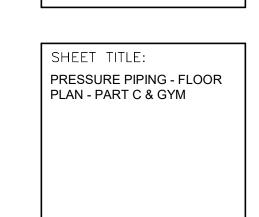
KEY PLAN

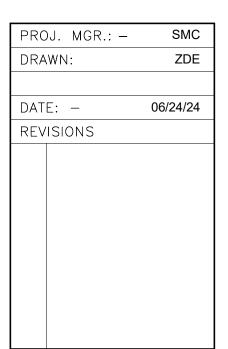
SCALE: N.T.S.

ATHAN

Dewberry

No. 24747
PROFESSIONAL



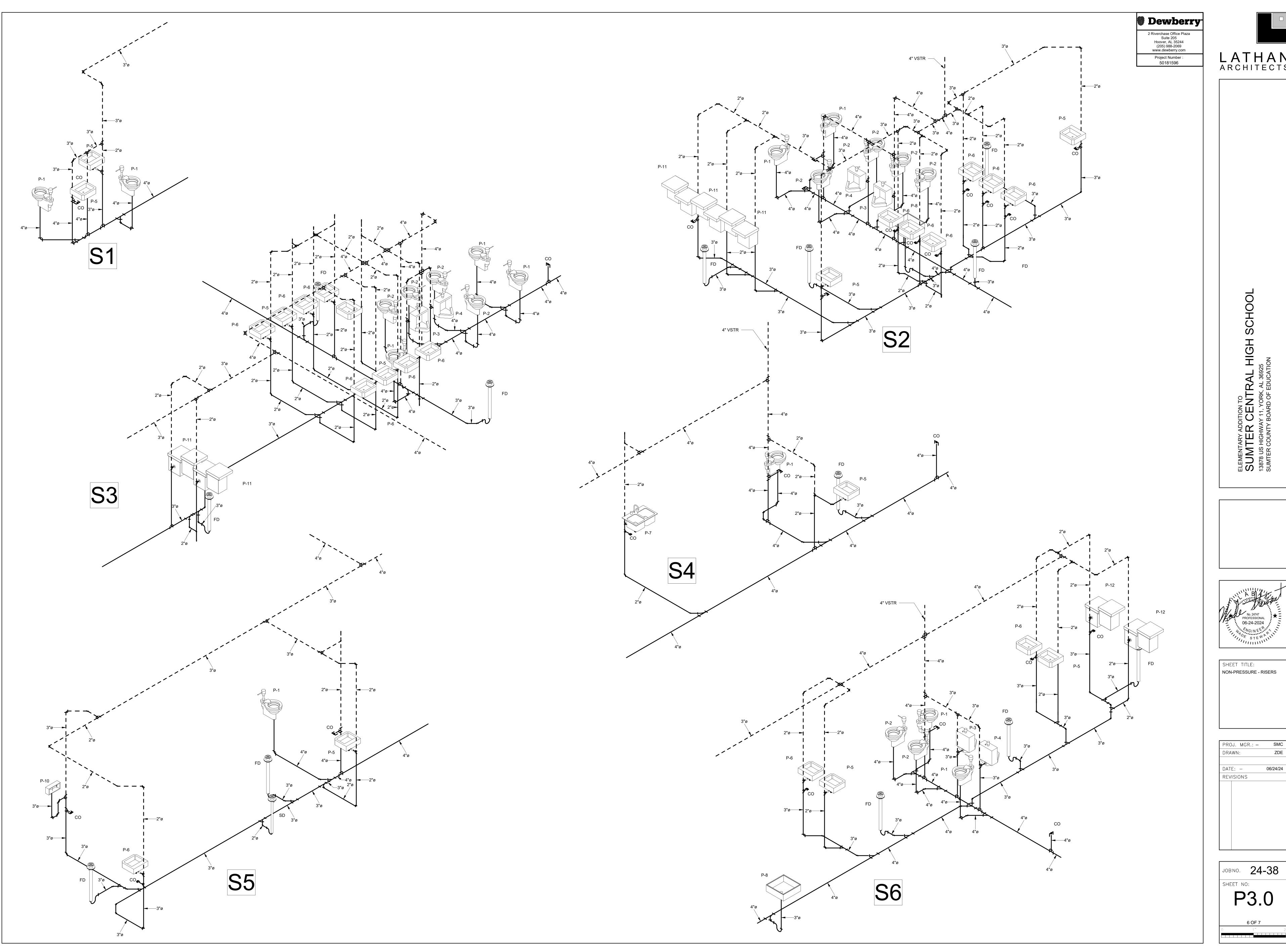


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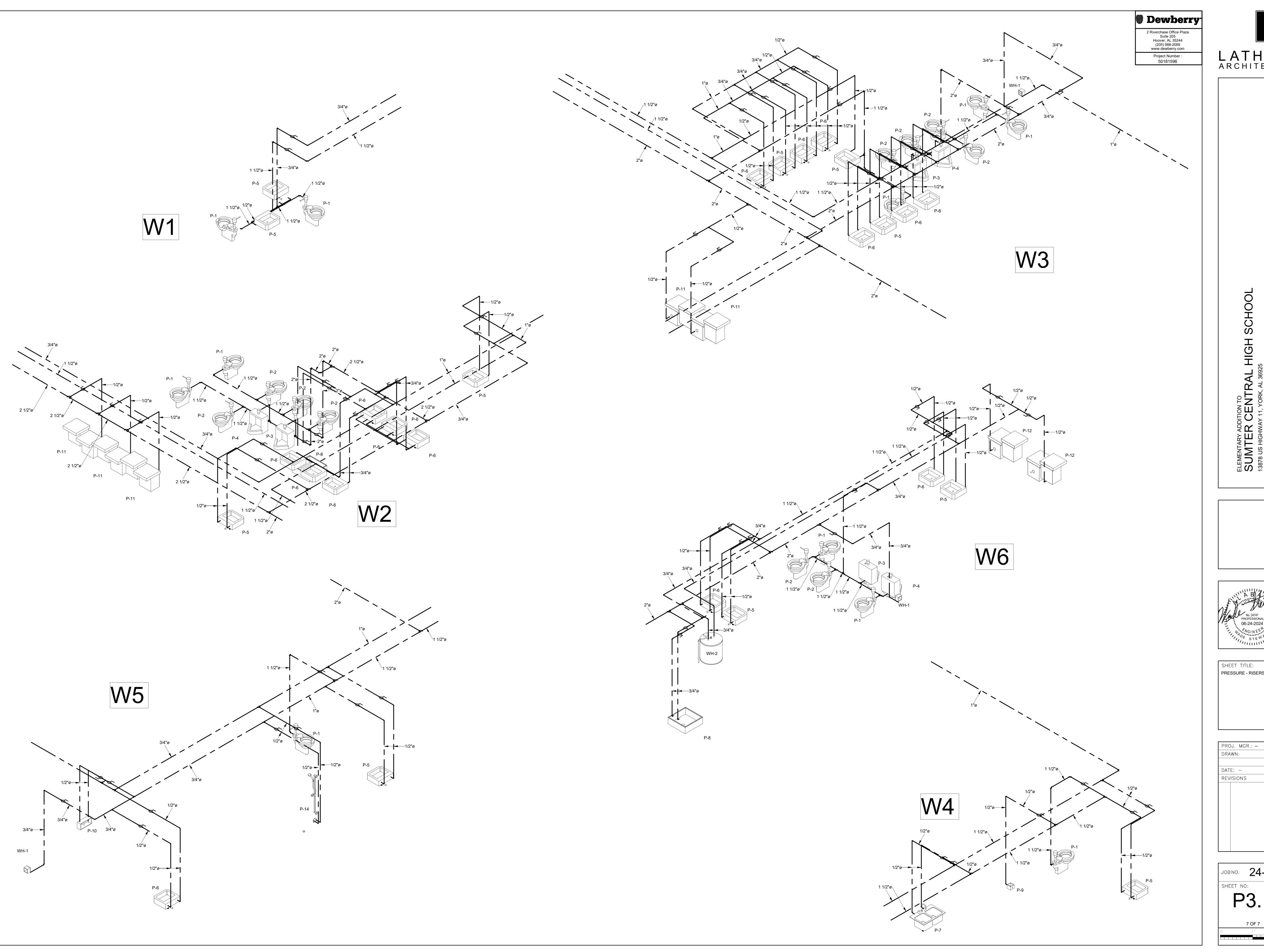
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5 OF 7

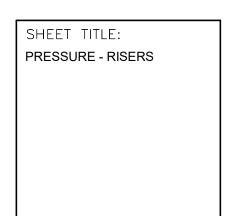












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DRAWN:	ZDE
DATE: -	06/24/24
REVISIONS	

SHEET NO:
P3.1 7 OF 7

DU	CTWORK LEGEND	HVAC A	ABBREVIATIONS				
	<u> </u>		1221121113113				
(CFM) S	SUPPLY DIFFUSER	A	Amps	EF	Exhaust Fan	NPLV	Non-Standard Part Load Value
(CFM) R	RETURN GRILLE	AAV	Automatic Air Vent	EHC	Electric Heating Coil	NPSH	Net Positive Suction Head
` ,		ACF	Air Curtain Fan	ELEC	Electrical	NTS	Not To Scale
(CFM) E	EXHAUST GRILLE	AC ACCU	Air Conditioning	EMCS	Energy Management Control System	OSA / OA	Outside Air
(CFM) T	TRANSFER AIR GRILLE	ACCO	Air Cooled Condensing Unit Automatic Damper	EMG ENT	Expanded metal grille Entering	OAT OD	Outdoor Air Temperature Outside Diameter
• •		ADJ	Adjustable	ERU	Energy Recovery Unit (with cooling or heating)	OS	Occupancy Sensor
(CFM) SR	SIDEWALL REGISTER	AF	Aujustable Airflow	ERV	Energy Recovery Ventilator (no cooling or heating)	P	Pressure or Pressure Sensor
Ø	ROUND DUCT SYMBOL	AFF	Above Finished Floor	ESP	External Static Pressure	PD	Pressure Drop
WXH	RECTANGULAR DUCT (WIDTH X HEIGHT)	AFM	Air Flow Monitor	ET	Expansion Tank	PH	Phase
	,	AHU	Air Handling Unit	EWH	Electric Wall Heater	PHC	Preheat Coil
		Al	Analog Input	EWT	Entering Water Temperature	PIU	Fan Powered Terminal Unit
	RECTANGULAR SUPPLY DUCT TURNING UP	AMB	Ambient	EX / (X) / E		PPM	Parts Per Million
		AO	Analog Output	F	Degrees Fahrenheit	PR / PCR	Pumped Condensate Return (Steam System)
		AP	Air Purifier	FCU	Fan Coil Unit	PRS	Steam Pressure Reducing Station
	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN	ARCH	Architectural	FD	Fire Damper	PSI	Pounds per Square Inch
		ASHRAE	American Society of Heating, Refrigerating,	FOR	Fuel Oil Return	PSIA	PSI Atmospheric
		ATV, AV	and Air-Conditioning Engineers	FOS FPI	Fuel Oil Supply Fins Per Inch	PSIG	PSI Gauge
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP	BD BHP	Atmospheric Vent Backdraft Damper	FPM	Feet Per Minute	PRV PTAC	Pressure Reducing Valve
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP	BI	Brake Horsepower	FS	Flow Switch	PTAC	Packaged Terminal Air Conditioner Packaged Terminal Heat Pump
		BMS	Binary Input	FT	Foot / Feet	QTY	Quantity
	DEGTANOLII AD DETUDNI AID OD EVITALIOT DUGT TUDNING DOMAL	ВО	Building Management System	FV	Face Velocity	R	Return Grille
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN	BOD	Binary Output	FZ	Freezestat	R	Radius, Rise, or Remove
		BT	Bottom of Duct	GA	Gauge	RA	Return Air
Ω		BTU	Buffer Tank	GAL	Gallons	RAT	Return Air Temperature
	ROUND DUCT TURNING DOWN	BTUH	British Thermal Unit	GALV	Galvanized	RCP	Reflected Ceiling Plan
		C/CD/CO2	British Thermal Unit per Hour	GC	General Contractor	RD	Refrigerant Discharge
\bigcirc		CA	Carbon Dioxide	GDH	Gas Duct Heater	RF	Return Fan, Relief Fan
$\otimes \varnothing$	ROUND DUCT TURNING UP	CCC	Compressed Air	GEO	Geothermal	RF	Refrigerant

Closed Circuit Cooler

Condensing Unit

Chemical Feeder

CHWP / CHP Chilled Water Coil

CHWR / CHR Chilled Water Pump

CHWS / CHS Chilled Water Return Piping

Carbon Monoxide

Condensate Pump

Computer Room Unit

Condensate Return

Current Transducer

Cabinet Unit Heater

Constant Volume

Valve Coefficient

Drain Piping

Dry Bulb

Double

Degree

Door Grille

Digital Input

Drum Louver

Exhaust Grille

Entering Air Temp

Exhaust Air

Diameter

Constant Volume - Reheat

Ductless Mini-split System

Digital Output Differential Pressure Sensor

Duct Smoke Detector

Domestic Water Heater

Electric Baseboard Heater

Electronically Commutated Motor

Electric Cabinet Heater

Electric Ceiling Heater

Electric Duct Heater

Condensing Unit

Cooling Tower

CFM

CRU / CRAC

Condensate Drain

Cubic Feet per Minute

Chilled Water Supply Piping

Condensate Return Unit (Steam System)

Controls, or, Continue

	HVA	C CONTROLS LEGEN
	T	TEMPERATURE SENSOR
	\overline{H}	HUMIDITY SENSOR
	C	CO2 MONITOR
	СР	120V HVAC CONTROLS POWER
	TS	AVERAGING TEMPERATURE SENSOF
1)	H	DUCT MOUNTED HUMIDITY SENSOR
	AO	ANALOG OUTPUT
	Al	ANALOG INPUT
	DO	DIGITAL OUTPUT

FAN/PUMP MOTOR

VARIABLE FREQUENCY DRIVE

CURRENT TRANSDUCER

FLOW SWITCH

DIRECTION OF FLOW

AIR FLOW MONITOR.

HAND-OFF-AUTO SWITCH

(PROVIDE ACCESS DOOR AT EACH AIR FLOW MONITOR.)

(c)	CO2 MONITOR		
СР	120V HVAC CONTROLS POWER	$\longrightarrow\!$	GA
TS	AVERAGING TEMPERATURE SENSOR		GL
$H \sim \sim$	DUCT MOUNTED HUMIDITY SENSOR		ВА
AO	ANALOG OUTPUT		BU BU
Al	ANALOG INPUT	——————————————————————————————————————	PR
DO	DIGITAL OUTPUT	O+	PIF
		C+	PIF
DI	DIGITAL INPUT		BR
DSD	DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR.	 	BR
HOA	HAND-OFF-AUTO MAGNETIC STARTER	 +	BR
SP	DUCT STATIC PRESSURE SENSOR		CA
DP	DIFFERENTIAL PRESSURE SENSOR		FLI
	INTERLOCK WITH FIRE ALARM SYSTEM		UN
	INTENEDOR WITH FIRE ALARINI STOTEIN		PE

PIPING LEGEND

	·	
	D	DRAIN PIPING
	AAV OR	AAV-AUTO. AIR VENT (MARKED OR SHOWN)
	——————————————————————————————————————	GATE VALVE
		GLOBE VALVE
	——————————————————————————————————————	BALL VALVE
	————	BUTTERFLY VALVE.
		BUTTERFLY VALVE.
		PRESSURE REDUCING VALVE.
	<u> </u>	PIPE TURNING UP.
	C+	PIPE TURNING DOWN.
		BRANCH OFF TOP OF MAIN.
СТ		BRANCH OFF BOTTOM OF MAIN.
		BRANCH OFF SIDE OF MAIN.
		CALIBRATED BALANCING VALVE
		FLEXIBLE CONNECTION IN PIPING
		UNION
		PETES PLUG
		SLOPE DOWN IN DIRECTION OF ARROW.
		CHECK VALVE

ASME PRESSURE RELIEF VALVE.

Dewberry 2 Riverchase Office Plaza Suite 205 Hoover, AL 35244 (205) 988-2069 www.dewberrv.com Project Number: 50181596



		AIR DEVICE	LEGEND	
MARK	EXAMPLE	DESCRIPTION	SIZE	BASIS OF DESIGN
"S"	200s CFM	PLAQUE FACE CEILING DIFFUSER WITH ROUND NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE ROUND NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM NECK SIZE RUN-OUT SIZE 0 - 100 6" 6" 101 - 200 8" 8" 201 - 300 10" 10" 301 - 500 12" 12" 501 - 750 15" 15" 751 - 1000 18" 18"	TITUS OMNI
"R", "E", "T"	200R CFM- R24 SQUARE NECK SIZE	CEILING MOUNTED RETURN (R), EXHAUST (E), OR TRANSFER (T) EGGCRATE GRILLE. ALL GRILLES IN A LAY-IN CEILING TO HAVE A 24X24 CEILING PANEL.	CFM SHOWN ON PLANS. NECK SIZED PER THE FOLLOWING: <u>CFM</u> <u>NECK SIZE</u> 0 - 100 6x6 101 - 200 8x8 201 - 350 10x10 351 - 500 12x12 501 - 750 14x14 751 - 950 16x16 951 - 1200 18x18 1201 - 1500 20x20 1501 - 2000 24x24	TITUS 50F
SR	SR12X6 200 / CFM-W x H	SIDEWALL SUPPLY REGISTER.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 272FL
WRG / WTG	WRG12X6 200 CFM—WxH	WALL RETURN GRILLE / WALL TRANSFER GRILLE.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 350FL

SEE SPECIFICATIONS FOR FINISH AND CONSTRUCTION MATERIAL FOR EACH AIR DEVICE. COORDINATE WITH ARCHITECT'S CEILING PLAN FOR LAY-IN OR SURFACE MOUNTING OF CEILING MOUNTED AIR DEVICES. COORDINATE LOCATIONS OF CEILING MOUNTED AIR DEVICES WITH LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS.

PACKAGED WALL HUNG AC UNIT

Gallons Per Hour

Hand-Off-Auto

Hot Water Coil

Hot Water Pump

Hot Water Return

Hot Water Supply

Inside Diameter

Kilowatt

Louver

Linear

Mixed Air

Maximum

MAU / MUA Make-up Air Unit

Linear Feet

Heating Water Temperature

Integrated Part Load Value

Leaving Air Temperature

Low Pressure Condensate

Locked Rotor Amps

Mixed Air Temperature

Minimum Circuit Amps

Manual Damper

MFD / FD Mechanical Floor Drain

Natural Gas

MFG Manufacturer

Linear Slot Diffuser

Low Pressure Steam Return

Low Pressure Steam Supply

Leaving Water Temperature

1,000 British Thermal Units per Hour

Minimum Efficiency Reporting Value

Maximum Overcurrent Protection

Normally Open or Number

Normally Closed or Noise Criteria

Fan / Pump Motor, or Motorized Damper, or Meter TYP

Water

Head

GPM

H2O

IPLV

KW

LPC

LRA

LWT

MOCP

Gallons Per Minute

Horsepower, Heat Pump

Heat Recovery Return

Heat Recovery Supply

Humidity Sensor, Humidifier, or Height

Heating, Ventilation, and Air-Conditioning

1. PACKAGED WALL HUNG HEAT PUMP WITH ELECTRIC HEAT AND HOT GAS REHEAT COIL.

RISE OR DROP IN DUCT

WITH MANUAL DAMPER

MANUAL DAMPER

AUTOMATIC DAMPER

TEMPERATURE SENSOR

HUMIDITY SENSOR

CO2 MONITOR

MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS

RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT

CONICAL SPIN-IN WITH MANUAL DAMPER

FIRE DAMPER (PROVIDE ACCESS DOOR)

RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.

COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR)

CONNECT TO EXISTING, FIELD VERIFY EXACT SIZE AND LOCATION.

IF ANOTHER APPROVED MANUFACTURER IS USED, THE MECHANICAL CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING ANY DEVIATIONS FROM THE SCHEDULED ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. ALL DEVIATIONS SHALL BE IDENTIFIED ON THE PRODUCT SUBMITTAL DATA.

HP UNITS ARE NOT TO HAVE OUTSIDE AIR. ALL REQUIRED OUTSIDE AIR IS BEING PROVIDED THRU ENERGY RECOVERY UNITS.

	O
ACCESSORIES:	
1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	COOPDIN

- 1. WALL SLEEVE COORDINATE SLEEVE DEPTH WITH WALL CONDITIONS. 2. EXTRUDED ALUMINUM ARCH. GRILLE WITH ANODIZED ALUMINUM FINISH.
- (COORDINATE GRILLE STYLE AND FINISH WITH ARCHITECT PRIOR TO ORDERING.) 3. CONDENSATE DRAIN KIT.

Relative Humidity, Reheat

Refrigerant Liquid Line

Revolutions Per Minute

Refrigerant Suction Line

Supply Air Temperature

Smoke Exhaust Fan

SFD / FSD Combination Smoke & Fire Damper

Static Pressure

Supply Register

Transfer Grille

Temperature

Transfer Duct

Temperature Sensor

Total Static Pressure

Unless Noted Otherwise

Top of Duct

Typical

Voltage

Volume

Velocity

Wet Bulb

Unit Heater

Unit Ventilator

Ventilation Fan

Width or Watts

Water Column

Wall Hydrant

Wall Exhaust Grille

Wall Return Grille Wall Return Register

Wall Exhaust Register

Uncorrected Fraction of Outdoor Air (System)
Corrected Fraction of Outdoor Air (System) Fraction of Outdoor Air (Critical Space)

Thermostat

Supply Fan, Square Foot

Split System, Stainless Steel

Temperature and Pressure

Cooling Tons (12,000 BTUH)

Thermostat or Temperature Sensor

Duct Mounted Sound Attenuator

Rated Load Amps

Reheat Coil

Roof Top Unit

Supply Air

Schedule Smoke Damper

Seconds

SCH

T-STAT

TON

TOD

TSP

V, VOLT

Supply Diffuser

Air / Dirt Separator

- 4. SUB-BASE KIT. 5. POWER DISCONNECT SWITCH.
- 6. REMOTE MOUNTED THERMOSTAT.
- 7. HOT GAS REHEAT COIL

		SUPPLY FAN	DA COOLING COIL	DX HEATING	ELEC		EL	ECTRICAL					DIMENSIONS	WEICHT		DAGIC OF
MARK	TYPE	AIRFLOW (CFM)	DX COOLING COIL CAPACITY TOTAL (MBH)	CAPACITY TOTAL (MBH)	HEAT (KW)	V	PH	HZ	MCA (A)	MOCP (A)	SEER/EER	COP	DIMENSIONS (W X L X H)	WEIGHT (LBS.)	ACCESSORIES	BASIS OF DESIGN
HP-1	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-2	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-3	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-4	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-5	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-6	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-7	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-8	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-9	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-10	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-11	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-12	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-13	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-14	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-15	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-16	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-17	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-18	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-19	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-20	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE
HP-21	1	1050	29	25	9	480 V	3	60	21.1	25	11	3.3	20 X 44 X 76	420	1,2,3,4,5,6,7	MARVAIRE

INDOOR HEAT PUMP (MINI-SPLIT SYSTEM) SCHEDULE

TYPE: 1. INDOOR, WALL MOUNT

2. INDOOR, CEILING CASSETE

3. INDOOR, HORIZONTAL CONCEALED, MEDIUM-STATIC

1. AIRFLOW RATED AT HIGH FAN SPEED.

2. POWER FOR INDOOR UNIT IS FED FROM OUTDOOR UNIT.

3. COOLING CAPACITY RATED AT 95°F.

4. HEATING CAPACITY RATED AT 47°F.

ACCESSORIES: 1. 3-POLE DISCONNECT SWITCH.

2. HARD WIRED UNIT CONTROLLER. 3. FULL PORT BALL VALVES & SCHRADER VALVES WITH FLARED CONNECTIONS. 4. FIELD-INSTALLED CONDENSATE PUMP (120/1/60) - 1 GPH @ 33 FT.

5. INTEGRAL CONDENSATE PUMP.

6. SUPPLY AIR DUCT OUTLET.

7. OUTSIDE AIR DUCT INLET.

		AIRFLOW	NOMINAL	COOLING	HEATING		ELECT	RICAL	_		WEIGHT	BASIS OF	
MARK	TYPE	(CFM)	TONS	CAPACITY (MBH)	CAPACITY (MBH)	V	PH	HZ	MCA (A)	ACCESSORIES	(LBS.)	DESIGN	
IHP-1	2	600	1.5	18	19	208	1	60	1.0	1,2,3,5,7	50	MITSUBISHI	
IHP-2	2	600	1.5	18	19	208	1	60	1.0	1,2,3,5,7	50	MITSUBISHI	
IHP-3	3	425	1.0	12	14	208	1	60	2.5	1,2,3,5,7	60	MITSUBISHI	
IHP-4	2	530	1.0	12	14	208	1	60	1.0	1,2,3,5,7	50	MITSUBISHI	
IHP-5	1	560	1.5	18	19	208	1	60	1.0	1,2,3,4	30	MITSUBISHI	
IHP-6	2	600	1.5	18	19	208	1	60	1.0	1,2,3,4,5,6	50	MITSUBISHI	
IHP-7	2	600	1.5	18	19	208	1	60	1.0	1,2,3,4,5,6	50	MITSUBISHI	
IHP-8	1	450	1.5	18	19	208	1	60	1.0	1,2,3,4	30	MITSUBISHI	
IHP-9	2	880	2.5	30	32	208	1	60	1.0	1,2,3,5	60	MITSUBISHI	
IHP-10	1	560	1.5	18	19	208	1	60	1.0	1,2,3,4	30	MITSUBISHI	

OUTDOOR HEAT PUMP (MINI-SPLIT SYSTEM) SCHEDULE

1. OUTDOOR HEAT PUMP

1. REFRIGERANT PIPING SHALL BE SIZED AND ROUTED PER MANUFACTURER'S RECOMMENDATIONS.

2. POWER TO INDOOR UNITS IS PROVIDED THRU OUTDOOR UNITS 3. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS.

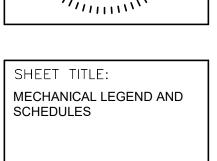
4. UNIT SHALL BE CAPABLE OF MINIMUM LINE LENGTH OF 65FT.

		COOLING	HEATING			ELECTRI	CAL		EFFIC	IENCY	WEIGHT	BASIS OF
MARK	TYPE	CAPACITY (MBH)	CAPACITY (MBH)	V	PH	HZ	MCA (A)	MOCP (A)	SEER	HSPF	(LBS)	DESIGN
			_									
OHP-1	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI
OHP-2	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI
OHP-3	1	12	14	208	1	60	17	20	21.8	9.8	125	MITSUBISHI
OHP-4	1	12	14	208	1	60	11	15	26.9	9.2	125	MITSUBISHI
OHP-5	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI
OHP-6	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI
OHP-7	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI
OHP-8	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI
OHP-9	1	30	32	208	1	60	19	25	23.4	9.5	175	MITSUBISHI
OHP-10	1	18	19	208	1	60	11	15	25.0	9.2	125	MITSUBISHI



CENTON TO CENTY 11, YOF

ELEMENTARY ADE
SUMTER COUNTY



PROJ. MGR.: -	JWS
DRAWN:	BDL
DATE: -	06/24/24
REVISIONS	

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PACKAGED OUTSIDE AIR UNIT WITH ENERGY RECOVERY WHEEL

NOTES:

PACKAGED AC UNIT WITH DX COOLING COIL, ENERGY RECOVERY WHEEL, AND ELECTRIC 1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.

ACCESSORIES:

1. 2" THICK THROWAWAY FILTER, MERV 8. 2. CONDENSER COIL GUARD.

3. BELT DRIVE SUPPLY AND EXHAUST FAN.

4. HEAD PRESSURE CONTROL TO 10°F AMBIENT. 5. HINGED ACCESS DOORS.

6. STAINLESS STEEL DRAIN PAN.

8. HOT GAS REHEAT COIL 9. HORIZONTAL DISCHARGE CURB. 10. FACTORY FABRICATED ROOF CURB. 11. DUEL ENTHALPY ECONOMIZER CONTROL.

7. OSA INTAKE HOOD AND EXHAUST HOOD WITH AUTO DAMPERS.

		SUPPLY FA	M		EXHAUST F	AN		SUMMER			WINTER			ELECTRICA	L		DX COOLI	NG COIL			HOT GAS	ELEC	C. HEAT				
MARK		E.S.P.	MOTOR		E.S.P.	MOTOR	OUTSID	E AIR	EXHAUST	OUTS	IDE AIR	EXHAUST				(A) LAT	TOTAL	SENS		CIRCUITS	REHEAT			ISMRE2	WEIGHT	ACCESSORIES	BASIS OF
IVIZACI X	CFM	(INW.G.)		CFM	(INW.G.)		EAT (DB°F/WB°F)	LAT (DB°F/WB°F)	ENTERING (DB°F/WB°F)	EAT	LAT (DB°F/WB°F)	ENTERING (DB°F/WB°F)	V PH	Hz MCA (A) MOCP	(A) (DB°F/WB°F)	(MBH)	(MBH)	NOM. TONS	OIIXOO110	(MBH)	kW	STAGES	IOMINEZ	(LBS)	AGGEGGATES	DESIGN
ERU-1	1805	1.0	1.0	1710	1.0	1	95 / 78	81.1 / 68.4	75 / 62.5	17 / 13.9	51.8 / 45.1	70 / 58	480 3	60 28.7	30	53.5 / 53.5	85.4	54.8	7	1	57.2	15.0	SCR	7.4	3000	1.2.3.4.5.6.7.8.9.10.11	TRANE
LIXU-1	1003	1.0	1.0		1.0	I	93776	01.1700.4		17 / 13.9	31.0/43.1	10/30	400 3	20.7	30		05.4		ı	ı	31.2	13.0	SCIN	7.4	3000	1,2,3,4,3,0,7,0,9,10,11	IIVAINE
ERU-2	1825	1.0	1.0	1755	1.0	1	95 / 78	80.9 / 68.1	75 / 62.5	17 / 13.9	52.4 / 45.6	70 / 58	480 3	60 28.7	30	54.0 / 53.9	85.9	56.3	7	1	58.8	15.0	SCR	7.4	3000	1,2,3,4,5,6,7,8,9,10,11	TRANE
ERU-3	1360	1.0	1.0	1160	1.0	1	95 / 78	82.2 / 69.3	75 / 62.5	17 / 13.9	48.9 / 42.7	70 / 58	480 3	60 28.4	30	53.5 / 53.4	69.6	43.0	6	1	47.1	15.0	SCR	8.0	3000	1,2,3,4,5,6,7,8,9,10,11	TRANE

PACKAGED UNIT - ELECTRIC

1. PACKAGED ROOFTOP UNIT, VERTICAL DISCHARGE. 2. PACKAGED AC UNIT, HORIZONTAL DISCHARGE.

NOTES:

1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT. * OUTSIDE AIR REQUIRED IS BEING PROVIDED BY ERU.

ACCESSORIES: 1. 2" THICK THROWAWAY FILTER, MERV 8. 7. FACTORY ROOF CURB.

2. CONDENSER COIL GUARD. 8. STAINLESS STEEL DRAIN PAN. 9. HOT GAS REHEAT COIL. MINIMUM 15°F RISE. 3. HEAD PRESSURE CONTROL TO 10°F AMBIENT.

4. OSA INTAKE HOOD WITH AUTO DAMPER, ECONOMIZER, AND 10. BIPOLAR IONIZATION. BAROMETRIC RELIEF.

5. STEEL FACTORY FABRICATED INSULATED ROOF CURB.

6. HINGED ACCESS DOORS.

			SUPPLY FAN		MAX OSA	MIN OSA		DX COOLING	CAPACITY		ELE	CHEAT			ELEC	CTRICAL			WEIGHT		
MARK	TYPE	AIRFLOW (CFM)	E.S.P. (INW.G.)	MOTOR (HP)	(CFM)	(CFM)	EAT (DB°F/WB°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS	KW	STAGES	V	PH	HZ	MCA (A)	MOCP (A)	EER	(LBS)	ACCESSORIES	BASIS OF DESIGN
AHU-GYM	2	9900	1.1	4.6	900	650	76.76 / 63.9	263.5	206.3	25	72	2	480 V	3	60	102	110	10.7	2100	1,2,3,4,5,6,8,9,10	TRANE
RTU-1	1	2400	0.9	2.75	0*	0*	75 / 63	72.6	58.2	6	18	2	480 V	3	60	47	50	12.1	1250	1,2,3,4,5,6,7,8,9,10	TRANE
RTU-2	1	2400	0.9	2.75	0*	0*	75 / 63	72.6	58.2	6	18	2	480 V	3	60	47	50	12.1	1250	1,2,3,4,5,6,7,8,9,10	TRANE
RTU-3	1	1200	0.8	1.5	0*	0*	75 / 63	36.0	28.7	3	12	2	480 V	3	60	29	30	12.1	900	1,2,3,4,5,6,7,8,9,10	TRANE
RTU-ADMIN	1	1600	0.9	1.5	0*	0*	75 / 63	44.7	38.1	4	12	2	480 V	3	60	29	30	13.0	1100	1,2,3,4,5,6,7,8,9,10	TRANE

FAN SCHEDULE

FAN TYPE:

1. CENTRIFUGAL SQUARE INLINE - DIRECT DRIVE. 2. CENTRIFUGAL ROOF FAN - DIRECT DRIVE.

FAN ACCESSORIES: 1. BACKDRAFT DAMPER. 2. DISCONNECT SWITCH.

3. BIRDSCREEN. 4. 5A-120V FAN SPEED CONTROLLER. 5. SPRING VIBRATION ISOLATORS. 6. FLEXIBLE CONNECTIONS.

WHEEL SOUND MOTOR INTERLOCK WEIGHT **BASIS OF** FAN AIRFLOW E.S.P. SIZE CRITERIA (IN.-W.G.) (INCHES) (SONES/dBA) DESIGN GREENHECK 1/4 | 120 V | 1 | 60 1,2,3,4,5,6 10.9 8.3 / 57 1669 1/10 120 V 1 60 1,2,3,4,6 GREENHECK

WALL HEATER SCHEDULE **HEATER TYPE: ACCESSORIES:** 1. ELECTRIC WALL HEATER. 1. SURFACE MOUNTING. 2. UNIT MOUNTED THERMOSTAT.

3. CONCEALED ON/OFF SWITCH. 4. HIGH LIMIT CONTROLS. 5. BUILT-IN CIRCUIT BREAKER.

MARK	SIZE	ELE	CTRIC	AL	ACCESSORIES	BASIS OF
IVIARY	(kW)	V	PH	HZ	ACCESSORIES	DESIGN
EWH-1	4.0	277	1	60	1,2,3,4,5	MARKEL

AIR PURIFICATION SCHEDULE FLOW | GPS MODEL | GPS QUANTITY | VOLTAGE WATTS MOUNTING LOCATION MANUFACTURER CV GPS-iRIB 1 PER UNIT UNIT SERVED GLOBAL PLASMA SOLUTIONS

BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN

- SUBJECT TO SPECIFICATION COMPLIANCE. MOUNT GPS-IRIB TO AIR INLET SIDE OF COOLING COIL. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL
- ELECTRICAL AND MECHANICAL CHANGES.
- BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE. ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
- ION GENERATORS SHALL INCLUDE AN LED INDICATOR LIGHT.

PROVIDE GPS-IRIB FOR ALL WALL HUNG UNITS. *PROVIDE FOR ALL WALL HUNG UNITS.

	AIR PURIFICATION SCHEDULE												
FLOW	GPS MODEL	GPS QUANTITY	VOLTAGE	WATTS	MOUNTING LOCATION	MANUFACTURER							
CV	GPS-FC	1 PER UNIT	24	1.2	UNIT SERVED	GLOBAL PLASMA SOLUTIONS							

- BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN
- SUBJECT TO SPECIFICATION COMPLIANCE. MOUNT GPS-FC TO AIR INLET SIDE OF COOLING COIL. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL
- ELECTRICAL AND MECHANICAL CHANGES. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
- ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
- PROVIDE 24 V TRANSFORMER AS REQUIRED. PROVIDE GPS-FC-3 FOR ALL CEILING CASSETTE INDOOR SPLITS.

*PROVIDE FOR ALL IHP UNITS.

		, (1				-	
FLOW	GPS MODEL	GPS QUANTITY	MINIMUM NEEDLE SPACING	VOLTAGE	WATTS	MOUNTING LOCATION	MINIMUM ION DENSITY (IONS/CO
CV	GPS-iMOD	1 PER COOLING COIL	1 EVERY 3/4"	115	15	UNIT SERVED	40 MILLION PER 0.75"

NOTES:

- 1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
- MOUNT GPS-IMOD TO AIR INLET SIDE OF COOLING COIL. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
- BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
- ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL. IONIZATION BAR TO HAVE A MINIMUM OF 1 NEEDLEPOINT EVERY 0.75" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE
- IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE. IONIZATION OUTPUT SHALL BE A MINIMUM OF 40 MILLION IONS/CC FOR EVERY 0.75" OF COIL WIDTH.

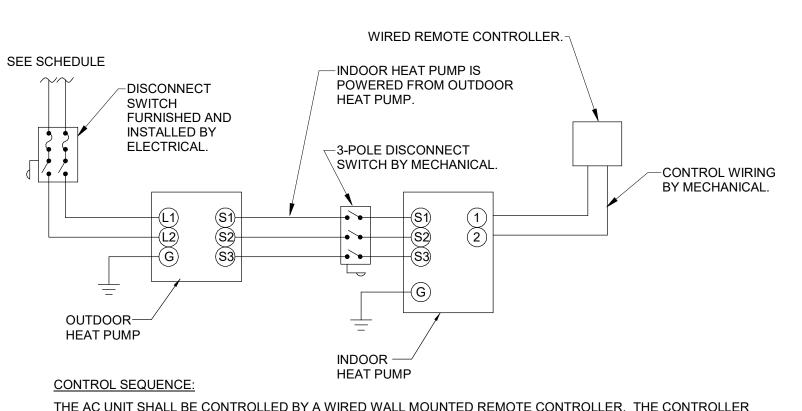
*PROVIDE FOR ALL RTU UNITS.

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SHEET TITLE: MECHANICAL SCHEDULES

PROJ. MGR.: -	JWS
DRAWN:	BDL
DATE: -	06/24/24
REVISIONS	

PACKAGED OUTSIDE AIR UNIT WITH ENERGY RECOVERY WHEEL CONTROLS



THE AC UNIT SHALL BE CONTROLLED BY A WIRED WALL MOUNTED REMOTE CONTROLLER. THE CONTROLLER SHALL CYCLE ON COMPRESSOR(S) TO MAINTAIN COOLING SETPOINT (74°F - ADJUSTABLE) AND HEATING SETPOINT (70°F - ADJUSTABLE). ÀLL MINI-SPLIT AC UNITS THAT SERVÈ ELECTRICAL AND IT ROOMS SHALL NOT SET THEIR TEMPERATURE BACK AT NIGHT. FOR ALL MINI-SPLIT AC UNITS THAT SERVE OFFICES, CLASSROOMS ETC. SHALL SET THEIR TEMPERATURE BACK TO 4°F ABOVE SETPOINT IN SUMMER AND 4°F BELOW SETPOINT IN THE WINTER. COORDINATE WITH OWNER TO ESTABLISH OCCUPIED / UNOCCUPIED SCHEDULES.

DUCTLESS SPLIT SYSTEM CONTROLS

DRAIN PIPING-

PIPING SUPPORT DETAIL

ATTACH UNISTRUT TO

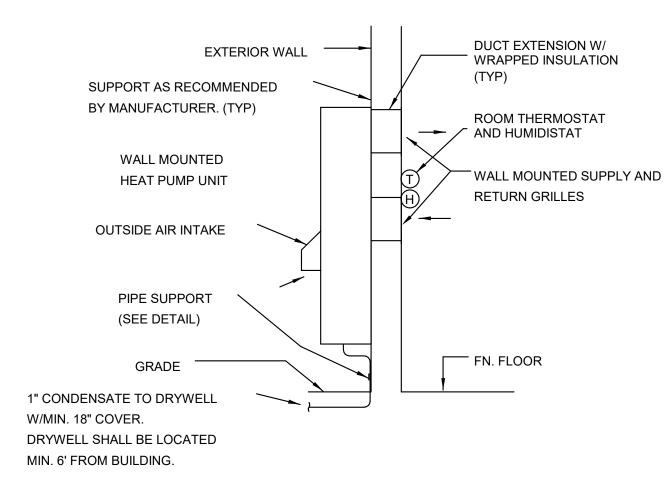
SUPPORT RAIL WITH

STAINLESS STEEL

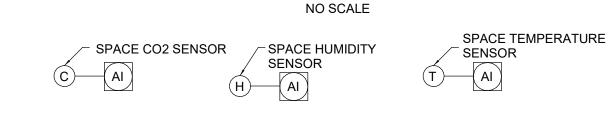
FASTENERS.

-EQUIPMENT SUPPORT

7/8" GALVANIZED UNISTRUT



WALL-HUNG CLASSROOM UNIT DETAIL



ENERGY RECOVERY UNIT CONTROL SEQUENCE

THE CONTROLS FOR THE ENERGY RECOVERY UNIT ARE INTENDED TO BE STAND ALONE. ANY DIGITAL DEVICES SHOWN ARE INTENDED TO BE MONITORED OR CONTROLLED THROUGH THE FACTORY UNIT MOUNTED CONTROLLER.

THE ENERGY RECOVERY UNIT (ERU) SHALL BE STARTED AND STOPPED BY THE UNIT MOUNTED CONTROLLER SUBJECT TO AN OWNER'S OCCUPANCY SCHEDULE AND SUBJECT TO INTERNAL UNIT SAFETIES. OCCUPIED AND UNOCCUPIED HOURS SHALL BE DETERMINED BY THE OWNER AND SHALL BE FULLY ADJUSTABLE AT THE UNIT MOUNTED CONTROLLER BY THE OWNER.

UNOCCUPIED MODE: DURING UNOCCUPIED MODE, THE EXHAUST AIR AND OUTSIDE AIR AUTO DAMPERS SHALL BE CLOSED AND THE EXHAUST AIR AND

OUTSIDE AIR FANS SHALL BE OFF. OCCUPIED MODE:
DURING OCCUPIED HOURS, THE EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL OPEN. ONCE THE DAMPERS ARE PROVEN TO BE OPEN, THE WHEEL MOTOR SHALL START, THE SUPPLY FAN AND

EXHAUST FAN SHALL BE STARTED BY THE UNIT MOUNTED CONTROLLER AND SHALL RUN CONTINUOUSLY. TEST AND BALANCE SHALL ADJUST THE FAN SPEED AT THE VARIABLE FREQUENCY DRIVE FOR EACH FAN TO PROVIDE THE SCHEDULED OUTSIDE AIR AND EXHAUST AIR CFM. THIS FAN SPEED SHALL BE SET AND SHALL BE DISPLAYED AT THE UNIT MOUNTED CONTROLLER. THE FAN SPEED FOR THE OUTSIDE AIR AND EXHAUST AIR FANS SHALL NOT VARY. THE UNIT MOUNTED CONTROLLER SHALL STAGE ON

COMPRESSORS AND OPEN/CLOSE SOLENOID VALVE(S) AT THE DX COIL TO MAINTAIN A 54°F SUPPLY AIR TEMPERATURE AS MEASURED AT THE TEMPERATURE SENSOR DOWNSTREAM OF THE DX COIL. THE HOT GAS REHEAT IN THE ERU SHALL MODULATE TO MAINTAIN A TEMPERATURE LEAVING THE ERU OF 72°F (SUMMER) AND 70°F (WINTER) AS MEASURED AT THE DISCHARGE AIR TEMPERATURE SENSOR. IN THE WINTER THE ELECTRIC HEATER SHALL STAGE ON TO PROVIDE A LEAVING AIR TEMPERATURE OF 70°F (ADJUSTABLE).

DEHUMIDIFICATION MODE: IF THE SPACE MOUNTED RELATIVE HUMIDITY SENSOR RISES ABOVE 60% RH FOR LONGER THAN 10 MINUTES DURING OCCUPIED OR UNOCCUPIED MODES, THE ERU SHALL GO INTO DEHUMIDIFICATION MODE. IN DEHUMIDIFICATION MODE, THE EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL BE OPEN, THE EXHAUST AIR AND OUTSIDE AIR FANS SHALL RUN, THE CONDENSING UNIT SHALL BE ON AND PROVIDINING 100% COOLING, AND THE HOT GAS REHEAT AND ELECTRIC HEATER SHALL STAGE ON/OFF TO MAINTAIN A SPACE TEMPERATURE OF 72°F (SUMMER) AND 70°F (WINTER). ONCE THE HUMIDITY RETURNS TO BELOW 60% RH, THE ERU SHALL RETURN TO NORMAL OCCUPIED OR UNOCCUPIED MODE.

CONTROL SEQUENCE

OCCUPIED MODE: THE ROOM MOUNTED PROGRAMABLE THERMOSTAT SHALL INITIATE STARTING CONTROLS. THE SUPPLY FAN SHALL START SUBJECT TO THE SMOKE DETECTOR INTERLOCK. SHALL MONITOR THE SPACE TEMPERATURE SENSOR TO CYCLE ON COMPRESSOR FOR COOLING ΓΟ MAINTAIN COOLING SETPOINT (75°F -ADJUSTABLE). COMPRESSOR AND ELEC STRIP HEAT TO STAGE AS RÉQUIRED TO MAINTAIN HEATING SETPOINT (72°F - ADJUSTABLE). THE OSA DAMPER SHALL REMAIN

<u>JNOCCUPIED MODE:</u>
THE SPACE TEMPERATURE SENSOR SHALL CYCLE THE SUPPLY FAN. DX COOLING. HEATING AND EC HEAT TO MAINTAIN THE UNOCCUPIED SPACE SETPOINT (60°F HEATING / 80°F COOLING - ADJUSTABLE). THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.

DEHUMIDIFICATION SEQUENCE: UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH), THE AC UNIT SHALL GO INTO FULL COOLING AND STAGE ON THE HOT GAS REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 75°F. (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT THE UNIT SHALL RETURN TO NORMAL OPERATION.

DISCONNECT SWITCH BY QTY. AS REQUIRED— ELECTRICAL. FOR MULTIPLE SEE SCHEDULE START/STOP STAGES. -ROOFTOP AC UNIT HEATING - OSA INTAKE STAGES HOOD WITH **AUTOMATIC AC UNIT** DAMPER, NC. OSA (DO) DAMPER, COOLING (DO) STAGES QTY. AS REQUIRED FOR MULTIPLE STAGES. SUPPLY SMOKE DETECTOR (UL -LISTED). FURNISHED AND WIRED BY ELECTRICAL. INSTALLED IN DUCTWORK BY MECHANICAL. SMOKE DETECTOR WIRED TO SHUT OFF UNIT. - SPACE CO2 SENSOR - SPACE HUMIDITY SENSOR — SPACE TEMPERATURE SENSOR

PACKAGED UNIT CONTROLS

DRAINPIPE

CEILING

CONTROL SEQUENCE:

OCCUPIED MODE:
THE PROGRAMABLE THERMOSTAT AND UNIT MOUNTED CONTROLLER SHALL START THE SUPPLY FAN, SUBJECT TO INTERNAL AC UNIT SAFETIES AND SMOKE DETECTOR INTERLOCK (WHERE REQUIRED). THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (75° F - ADJUSTABLE) AND HEATING SETPOINT (70°F -

UPON AMBIENT TEMPERATURE REACHING 40°F, THE

HEAT PUMP COMPRESSOR SHALL BE LOCKED OUT AND THE ELECTIC HEATER SHALL BE STAGED TO MAINTAIN TEMPERATURE SET POINT. **DEHUMIDIFICATION SEQUENCE** UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH).

THE AC UNIT SHALL GO INTO FULL COOLING AND STAGE ON THE HOT GAS REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 74°F. (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT (55% RH) THE UNIT SHALL RETURN TO NORMAL OPERATION.

THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED HOURS. THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (80° F - ADJUSTABLE). UPON AMBIENT TEMPERATURE REACHING 40°F, THE HEAT PUMP COMPRESSOR SHALL BE LOCKED OUT AND THE ELECTIC HEATER SHALL BE STAGED TO MAINTAIN TEMPERATURE SET POINT. HEATING SETPOINT (60°F - ADJUSTABLE).

ECONOMIZER:
THE UNIT WILL MEASURE THE DRY BULB SUPPLY AIR TEMPERATURE AND THE DRY BULB OUTDOOR AIR TEMPERATURE AND ECONOMIZER WILL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE DRY BULB CHANGE OVER SETPOINT (55°F). WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN COOLING MODE, THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER WILL BE MODULATED IN TANDEM TO MAINTAIN THE SPACE TEMPERATURE SETPOINT, IF THE ECONOMIZER CANNOT MAINTAIN SPACE TEMPERATURE, THE COMPRESSORS SHALL BE ENABLED.

TO PREVENT SPACE OVER-PRESSURIZATION, THE BAROMETRIC RELIEF DAMPER AT THE AC UNIT SHALL OPEN DURING ECONOMIZER MODE.

CONTROL SYSTEM GENERAL NOTES

MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROLS POWER NECESSARY TO CONTROL PANELS THROUGHOUT PROJECT.

Dewberry

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Hoover, AL 35244

(205) 988-2069

www.dewberrv.com

Project Number :

50181596

MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROL POWER NECESSARY TO POWER AUTOMATIC CONTROL VALVES, AUTOMATIC DAMPER ACTUATORS, AND SMOKE DAMPER ACTUATORS.

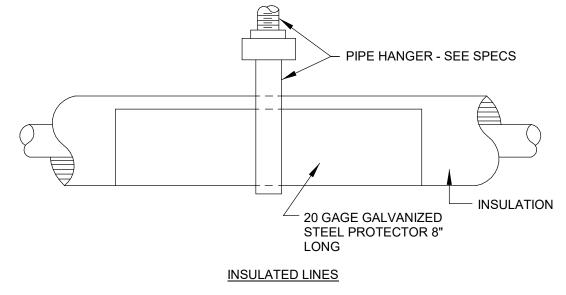
PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A

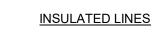
COMPLETE AND FUNCTIONAL CONTROLS SYSTEM.

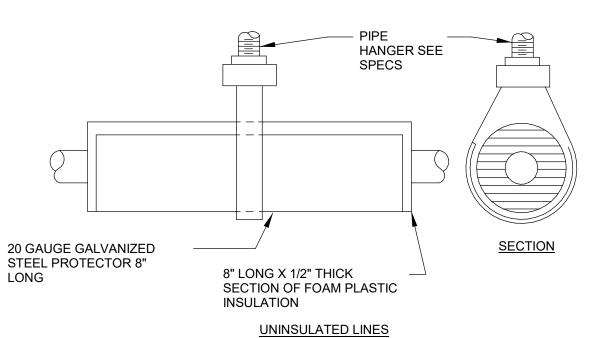
EXHAUST FAN CONTROLLED BY T'STAT. EXHAUST FAN SHALL ENERGIZE AND RESPECTIVE AUTO DAMPER SHALI OPEN WHEN TEMPERATURE EXCEDES ROOM SETPOINT (85 F ADJUSTABLE). FAN SHALL DE-ENERGIZE AND DAMPER SHALL CLOSE ONCE ROOM SET

FAN MOTOR

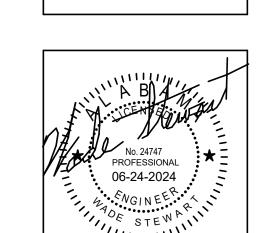
POINT IS REACHED. **EXHAUST FAN CONTROLS**

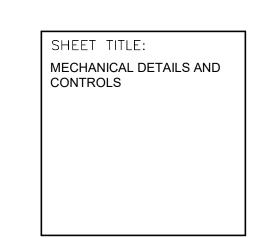


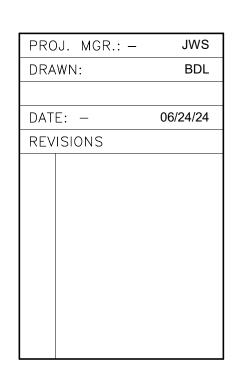




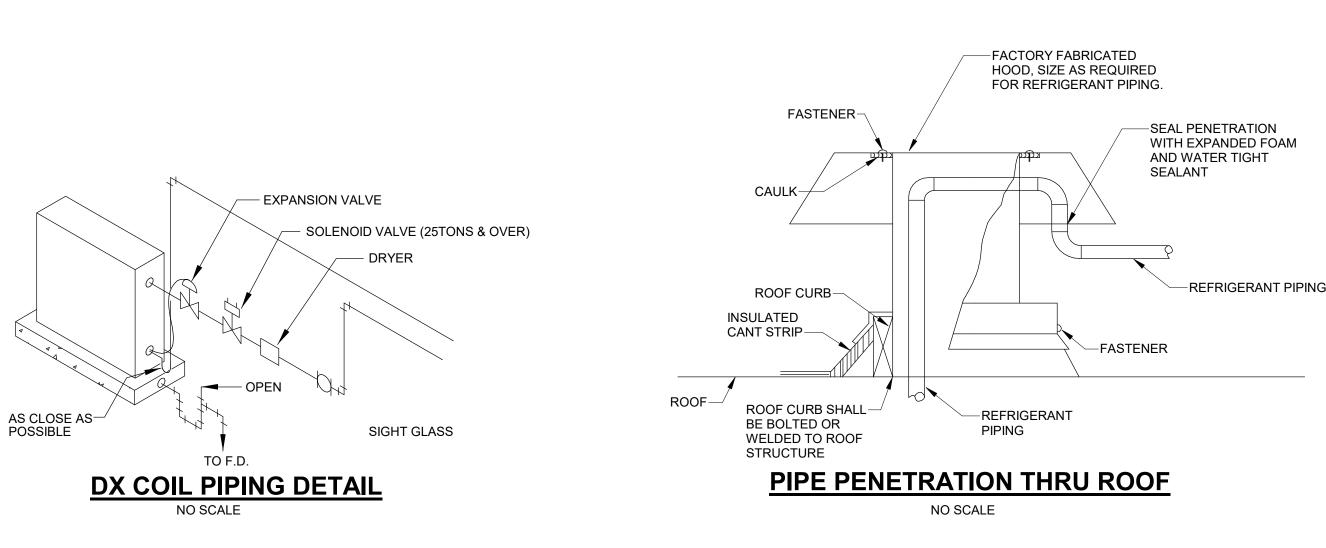
REFRIGERANT PIPING HANGER DETAIL

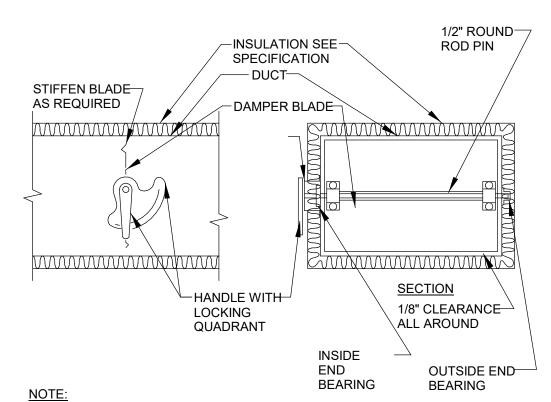






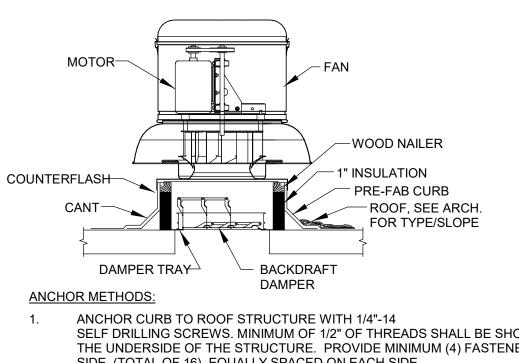
JOBNO. **24-38** SHEET NO: 3 OF 17





1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION 2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

3. MANUAL DAMPERS SHALL BE EQUAL TO RUSKIN MD35 (FOR RECTANGULAR DUCTS) AND SHALL BE EQUAL TO RUSKIN MDRS25 (FOR ROUND DUCTS).

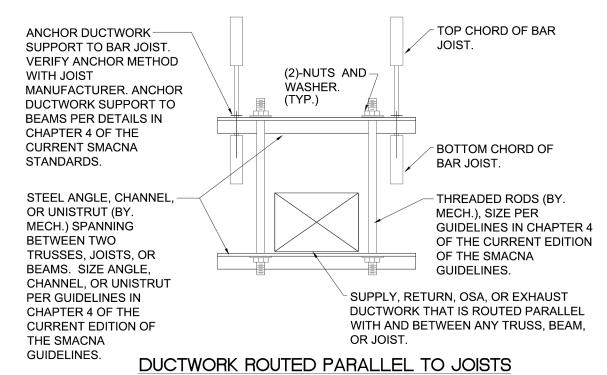


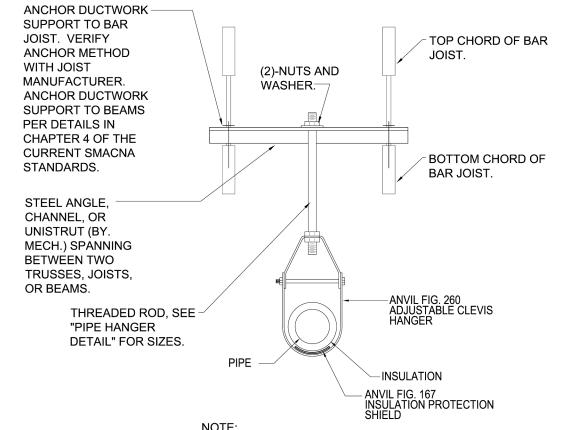
SELF DRILLING SCREWS. MINIMUM OF 1/2" OF THREADS SHALL BE SHOWING ON THE UNDERSIDE OF THE STRUCTURE. PROVIDE MINIMUM (4) FASTENERS PER SIDE, (TOTAL OF 16), EQUALLY SPACED ON EACH SIDE. ANCHOR FAN TO CURB WITH A MINIMUM OF (4) 1/4"-14 SELF DRILLING

SCREWS ON EACH SIDE OF THE FAN (TOTAL OF 16 FASTENERS). ONE FASTENER SHALL BE INSTALLED 3" FROM EACH END ON THE SIDE OF THE FAN AND THE OTHER TWO SHALL BE EQUALLY SPACED ALONG THE SIDE.

NO SCALE

CENTRIFUGAL ROOF FAN INSTALLATION DETAIL





INDOOR CEILING CASSETTE UNIT DETAIL

NO SCALE

SUSPENSION BOLT

REFRIGERANT PIPE

CONNECTIONS

NOTE:
PIPING MAY BE GROUPED TO TRAPEZE HANGERS. SEE SPECIFICATION SECTION 15050. PIPING ROUTED PARALLEL TO JOISTS

MANUAL DAMPER DETAIL

A = FULL SIZE AC UNIT DRAIN

CONNECTION, OR PER SCHEDULE

ABOVE. (WHICHEVER IS LARGER.)

 $B \ge 2X$ FAN SUCTION STATIC PRESS.

C≥ 2X FAN DISCHARGE STATIC PRESS.

- EXTERIOR DUCTWORK

SPACE MINIMUM 10'-0"

O.C., AT CHANGE IN

DIRECTION, OR AS

SHOWN ON PLANS.

GALVANIZED STEEL

UNISTRUT SUPPORT

12"-14" HIGH "PATE"

ANCHOR TO ROOF

STRUCTURE.

-TAPERED INSULATION

WEATHER TIGHT

SKIN (SEE SPEC.)

ANCHOR, NUTS

CONCRETE SLAB

OR EQUIPMENT

ROOF SUPPORT

& BOLTS

INSULATION & EXTERIOR METAL

DUCT SUPPORT

— DUCT WITH

ANGLE IRON

DUCT SUPPORT ON ROOF DETAIL

DO NOT SCREW TO

DUCT SUPPORT DETAIL

NO SCALE

REFRIGERANT LINE SUPPORT DETAIL

NO SCALE

FRAME. (AS REQUIRED)

EQUIPMENT SUPPORT RAIL.

AC UNIT DRAIN TRAP DETAIL

FLOOR DRAIN

INSIDE — FACE OF

WALL

22 GA. SHEET-

— DUCT WITH

LINER

INTERNAL

2 CABLE EYELETS & SCREWS-

18" HIGH MINIMUM—

3/8" DRIVE PIN-

ANCHOR METHODS:

CONCRETE

-STAINLESS STEEL CLAMP

UNISTRUT

STAINLESS STEEL

COLLAR

FACE OF

SEAL WATERTIGHT

-1/8" COATED GALVANIZED

EQUIPMENT. MIN. ONE PER

SIDE & MAX 6'-0" O.C.

INSTALLED)

1/8" WELD-

FOR STEEL STRUCTURES: ANCHOR CURB TO ROOF STRUCTURE WITH 1/4"-14 SELF DRILLING SCREWS. MINIMUM OF 1/2" OF THREADS SHALL BE SHOWING ON

THE UNDERSIDE OF THE STRUCTURE. PROVIDE MINIMUM (4) FASTENERS PER

FOR CONCRETE STRUCTURES: ANCHOR CURB TO ROOF STRUCTURE WITH 3/8" HILTI EXPANSION ANCHORS, MINIMUM 2-1/2" ENGAGEMENT. PROVIDE MINIMUM

(2) ANCHORS PER SIDE, (TOTAL OF 8), EQUALLY SPACED ON EACH SIDE.

EQUIPMENT ROOF SUPPORT DETAIL

SIDE, (TOTAL OF 16), EQUALLY SPACED ON EACH SIDE.

-WOOD NAILER (FACTORY

AIRCRAFT CABLE TO SECURE

—COUNTER FLASHING

-18 GA. GALVANIZED

—DECK

INSULATION

-METAL DECK

STEEL SHELL

-ROOFING FELT

— SLOPE DUCT AWAY

FROM BUILDING.

WALL

DUCT

DUCTWORK THRU OUTSIDE WALL DETAIL

NO SCALE

-1/4" ALL THREAD ROD

SAFE-OFF

-SECURE SUPPORT

FRAME TO CURB.

-EQUIPMENT CURB.

ROOF

-PIPE SHIELD

-UNISTRUT OR

CHANNEL

REFER TO SEPARATE

PIPE SUPPORT ON ROOF DETAIL

DRYER VENT THRU EXTERIOR WALL

CONDENSING UNIT ON ROOF

REFRIGERANT PIPE SUPPORT FROM CONCRETE PAD DETAIL

NO SCALE

CONDENSING UNIT

SEALER

COUNTER-

FLASHING

GRAVITY

DAMPER

DAMPER

DRYER VENT

PROVIDE MINIMUM

36" CLEARANCE

FROM INTAKE

SUCTION LINE-

PIPE SHIELD-

INSULATION-

CONCRETE PAD-

CONCRETE PAD-

CAP, ALUMINUM

EXTERIOR WALL-

STOP

-EQUIPMENT SUPPORT CURB. REFER TO SEPARATE DETAIL

ROOF

NEOPRENE-

THERMOPLASTIC ELASTOMER—

ISOLATOR

DUCT SUPPORT

ANGLE IRON

REFRIGERANT LINE-

STEEL SUPPORT ANGLE

- EXISTING BAR JOISTS

BOLT STEEL ANGLE

TO BOTTOM CHORD OF

EXISTING BAR JOISTS.

-CONCRETE EXPANSION

HOLES

- GRINNELL FIG. 52

GRINNELL FIG. B-268

SPRING HANGER

WHERE SPECIFIED

GRINNELL FIG. 260

HANGER

- INSULATION

GRINNELL FIG. 167

INSULATION

PROTECTION

SHIELD

CLEVIS HANGER DETAIL

ADJUSTABLE CLEVIS

CONCRETE ATTACHMENT

ANCHORS (4) SIZE TO MATCH

ROD ATTACHMENT PLATE

(TYP. EACH END)

CABLE SUPPORT

- CLIP ATTACHMENT

- ALUMINUM HANGER

- D-RINGS AT 10 & 2:00

- CABLE

- AIR DISTRIBUTION AS SPECIFIED

GRINNELL FIG. 153 PIPE

HANGER FLANGE

— CABLE CLAMPS

TURNBUCKLE

- INLET COLLAR, DUCTBELT, DUCTBUCKLE

AND ZIPPER FOR EASY DETACHMENT

— EYEBOLT

(3x1 SUSPENSION, CABLE AT 12 O'CLOCK)

(HANGER SUPPORTS DUCTSOX AT 10 & 2 O'CLOCK)

NO SCALE

HANGÈR ROD—

FABRIC DUCT SUPPORT DETAIL

TO SPAN BETWEEN

ATTACH CABLE

SUPPORT TO

STEEL ANGLE.

HANGER LOCKS-

TO CABLE

SPACE HANGERS AS REQUIRED—

PER MANUFACTURER'S RECOMMENDATIONS.

CONCRETE EXPANSION

MATCH HÀNGER FLANGE

ANCHOR (3) SIZED TO

GRINNELL FIG.

218 BEAM CLAMP

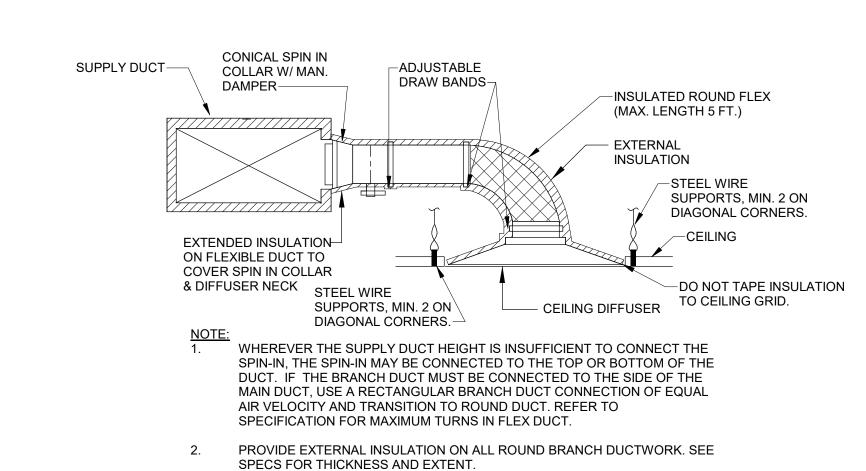
GRINNELL FIG. 157

7/8"ø ROD-

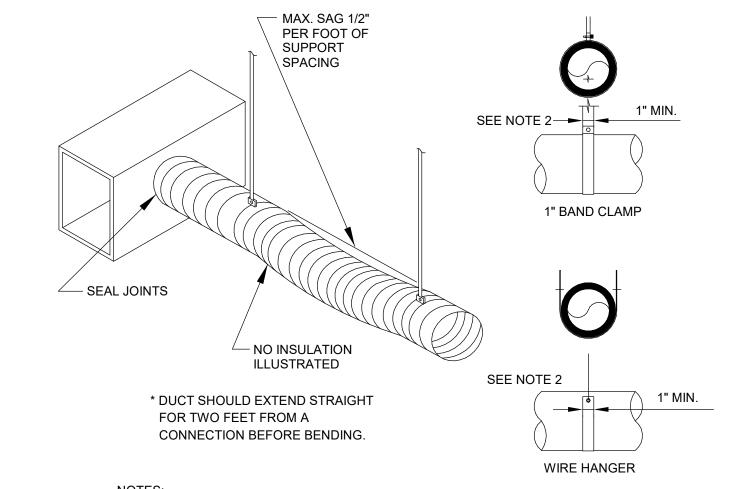
MAXIMUM

EXTENSION

EXISTING BAR JOISTS.

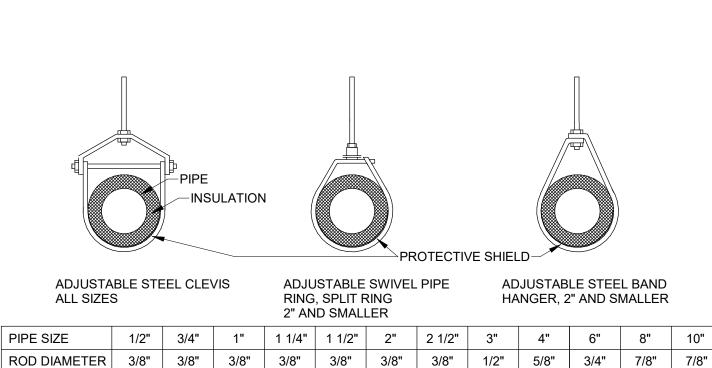


PROVIDE EXTERNAL INSULATION ON BACK SIDE OF CEILING DIFFUSERS. THICKNESS TO MATCH BRANCH DUCT INSULATION THICKNESS. **CEILING DIFFUSER INSTALLATION DETAIL**



1. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE. 2. DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING. 3. MIN. CENTER LINE BEND LINE RADIUS IS ONE DIA. (OR INSIDE RADIUS OF D/2). 4. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5 LINEAR FEET.

FLEXIBLE DUCT SUPPORT DETAIL NO SCALE



1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 6" | 8" | 10" ROD DIAMETER | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 7/8" NOTE: LOCATE ADDITIONAL HANGERS AT VALVES AND AT CHANGES IN DIRECTION.

* SPACING FOR PIPE HANGERS FOR PIPE SIZES LARGER THAN 3" AND HUNG FROM BAR JOISTS SHALL BE DETERMINED BY STRUCTURAL ENGINEER. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

> PIPE HANGER DETAIL NO SCALE

PROJ. MGR.: -BDL DRAWN: 06/24/24 DATE: -REVISIONS

> JOBNO. **24-38** SHEET NO: 4 OF 17

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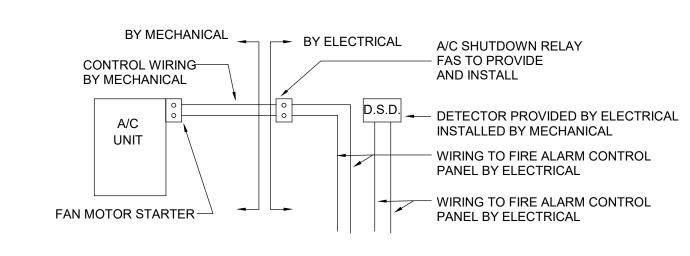
06-24-2024

SHEET TITLE:

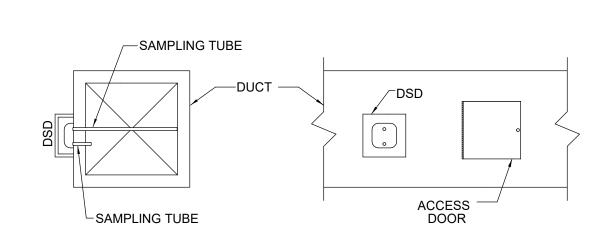
MECHANICAL DETAILS

ACCESS DOOR DETAIL

1. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.

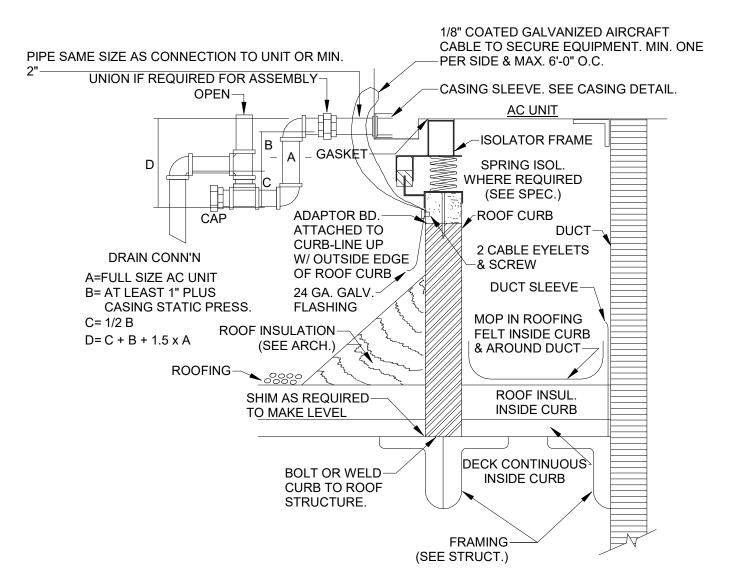


DUCT SMOKE DETECTOR CONNECTION



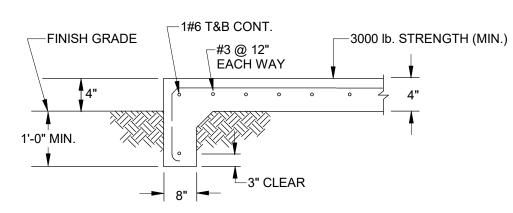
DUCT SMOKE DETECTOR INSTALLATION

DUCT SMOKE DETECTOR DETAIL

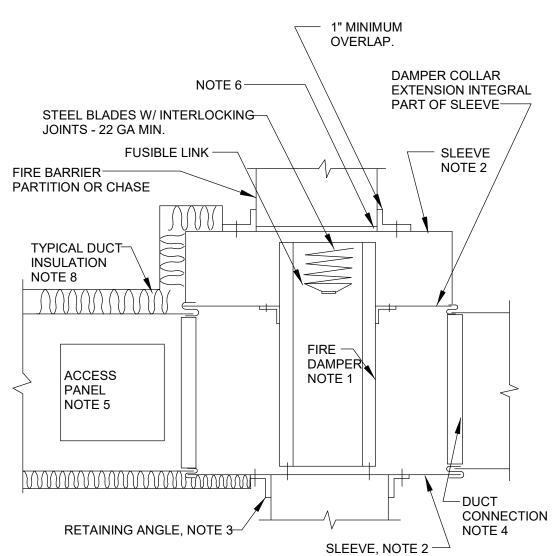


ROOFTOP AC UNIT DETAIL

NO SCALE



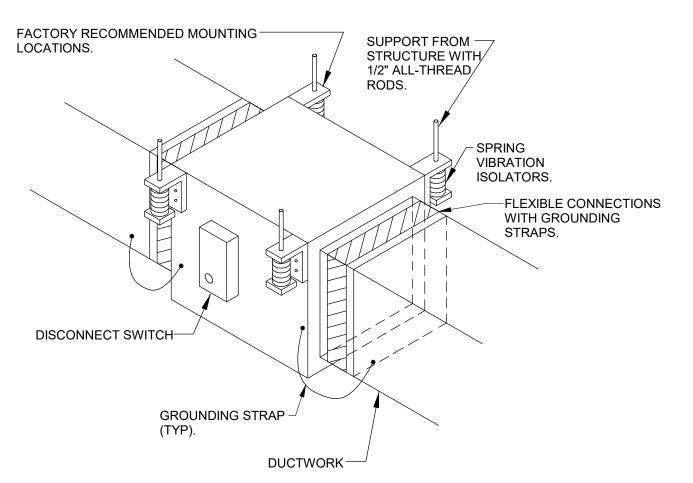
CONCRETE PAD DETAIL



- 1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS AND SMACNA FIRE DAMPER INSTALLATION GUIDELINE, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND RETAINING ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION. ALL FIRE DAMPERS SHALL BE UL LISTED.
- 2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES. 3. RETAINING ANGLES: GALVANIZED STEEL, NOT LESS THAN 1-1/2" x 1-1/2", 14 GAGE,
- TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES. RETAINING ANGLES MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS. SECURE RETAINING ANGLES TO FIRE DAMPER SLEEVE ONLY.
- 4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA OR PER MANUFACTURER'S RECOMMENDATIONS.
- 5. ACCESS DOORS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR
- 6. PROVIDE CLEARANCE TO PERMIT INSTALLATION & EXPANSION. PROVIDE 1/8" PER FOOT LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE MAXIMUM OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT + 2", NOR SHALL THE OPENING BE
- 7. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 4" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

LESS THAN 1/4" LARGER THAN THE DAMPER/SLEEVE ASSEMBLY.

FIRE DAMPER INSTALLATION DETAIL

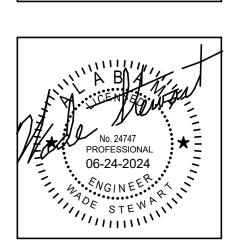


IN-LINE FAN INSTALLATION DETAIL



Project Number:

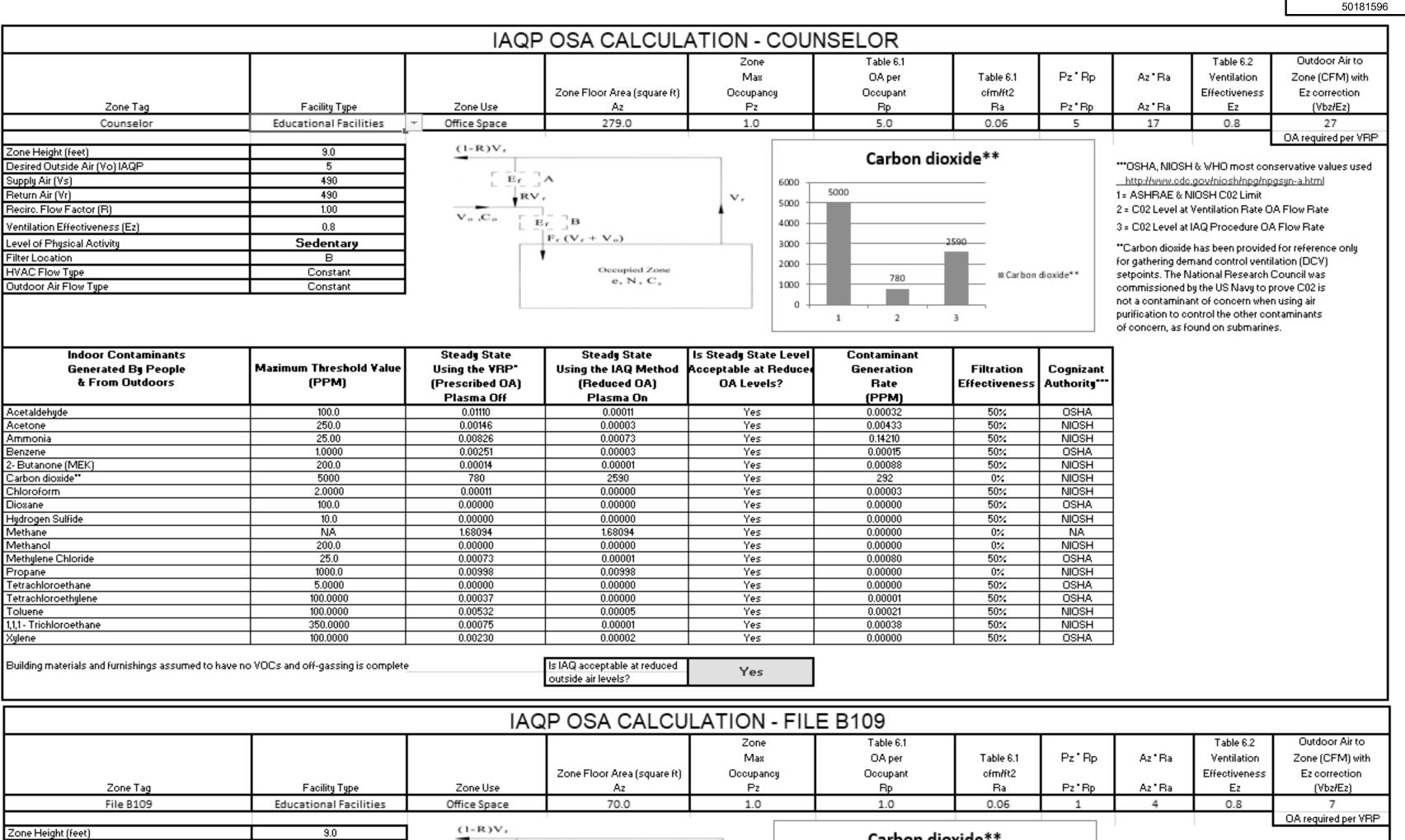
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SHEET TITLE: MECHANICAL DETAILS

PROJ. MGR.: -	JWS
DRAWN:	BDL
DATE: -	06/24/24
REVISIONS	



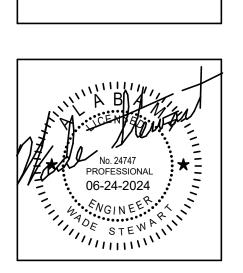


7 T	Facility Turns	7	Zone Floor Area (square ft)	Zone Max Occupancy	Table 6.1 OA per Occupant	Table 6.1 cfm/ft2	Pz Rp	Az "Ra	Table 6.2 Ventilation Effectiveness	Outdoor Air to Zone (CFM) wit Ez correction
Zone Tag	Facility Type	Zone Use	Az 70.0	Pz	Rp	Ra	Pz*Rp	Az * Ra	Ez	(Vbz/Ez)
File B109	Educational Facilities	Office Space	70.0	1.0	1.0	0.06	1	4	0.8	OA required per V
Zone Height (feet) Desired Outside Air (Vo) IAQP Supply Air (Vs) Return Air (Vr) Recirc. Flow Factor (R) /entilation Effectiveness (Ez) .evel of Physical Activity Filter Location HVAC Flow Type Outdoor Air Flow Type	9.0 5 120 120 1.00 0.8 Sedentary B Constant	(1-R)V _r	- 7	5000 - 5000 - 4000 - 3000 - 1000 -	Sooo 1990	2590	diaxide**	http://www.cdc 1= ASHRAE & f 2 = C02 Level at 3 = C02 Level at "Carbon dioxide for gathering de setpoints. The forcommissioned	gov/niosh/npg/np NOSH C02 Limit Ventilation Rate C IAQ Procedure O/	nservative values us ugsyn-a.html)A Flow Rate A Flow Rate d for reference only ilation (DCV) Council was prove C02 is n using air
					1 2	3		purification to c	ontrol the other co ound on submarine	
Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the YRP" (Prescribed OA) Plasma Off		Is Steady State Level Acceptable at Reduced OA Levels?		Filtration Effectiveness	Cognizant Authority***	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde	(PPM) 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01115	Using the IAQ Method (Reduced OA) Plasma On 0.00043	Acceptable at Reduced OA Levels? Yes	Generation Rate (PPM) 0.00032	Effectiveness	Authority*** OSHA	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone	(PPM) 100.0 250.0	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013	Acceptable at Reduced OA Levels? Yes Yes	Generation Rate (PPM) 0.00032 0.00433	Effectiveness 50% 50%	Authority*** OSHA NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia	(PPM) 100.0 250.0 25.00	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280	Acceptable at Reduced OA Levels? Yes Yes Yes Yes	Generation Rate (PPM) 0.00032 0.00433 0.14210	50% 50% 50%	OSHA NIOSH NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene	(PPM) 100.0 250.0 25.00 1.0000	Using the YRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015	50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene - Butanone (MEK)	(PPM) 100.0 250.0 25.00 1.0000 200.0	Using the YRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088	50% 50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH OSHA NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene P- Butanone (MEK) Carbon dioxide"	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292	50% 50% 50% 50% 50% 50% 0%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide** Chloroform	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003	50% 50% 50% 50% 50% 50% 0% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene B- Butanone (MEK) Carbon dioxide" Chloroform Dioxane	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000	50% 50% 50% 50% 50% 50% 0% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide** Chloroform	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003	50% 50% 50% 50% 50% 50% 0% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene P- Butanone (MEK) Carbon dioxide** Chloroform Dioxane Hydrogen Sulfide	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000	50% 50% 50% 50% 50% 50% 50% 0% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene - Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA 200.0 25.0	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 1.68094 0.000085	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000 0.00000 1.68094 0.00004	Yes	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 0% 50% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH OSHA NIOSH NIOSH OSHA NIOSH OSHA NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene Benzene Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane	(PPM) 100.0 250.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 10.0 NA 200.0 25.0 1000.0	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 0.00000 1.68094 0.00000 0.00085 0.00998	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000 0.00000 1.68094 0.00004 0.00004	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 60% 60% 50% 50% 60% 60% 60% 60%	Authority*** OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene P- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane Fetrachloroethane	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 10.0 NA 200.0 25.0 10000 25.0 1000.0	Using the YRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 1.68094 0.00000 0.00085 0.00998 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000 1.68094 0.00000 0.00004 0.00098 0.000004 0.00098	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 50% 60% 50% 50% 50% 60% 60% 60% 60% 50%	Authority*** OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA NIOSH NIOSH NIOSH OSHA NIOSH OSHA NIOSH OSHA OSHA OSHA	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane Fetrachloroethylene	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA 200.0 25.0 1000.0 5.0000 100.00 100.00	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 1.68094 0.00000 0.00085 0.00998 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000 1.68094 0.00000 0.00004 0.00098 0.00000 0.00000 0.00000 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 60% 50% 50% 50% 50% 60% 60% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NA NIOSH OSHA NIOSH OSHA OSHA OSHA OSHA OSHA	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene B- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane Fetrachloroethylene Foluene	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA 200.0 25.0 1000.0 5.0000 100.0000	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 0.00000 1.68094 0.00000 0.00085 0.00098 0.00000 0.00037 0.00535	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000 1.68094 0.00000 0.00000 0.00004 0.00000 0.00000 0.00000 0.00000 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	OSHA NIOSH NA NIOSH NA NIOSH OSHA NIOSH OSHA NIOSH OSHA NIOSH	purification to c of concern, as f		
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene P. Butanone (MEK) Carbon dioxide** Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane Fetrachloroethylene Fetrachloroethylene	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA 200.0 25.0 1000.0 5.0000 100.00 100.00	Using the VRP* (Prescribed OA) Plasma Off 0.01115 0.00210 0.02905 0.00253 0.00027 1990 0.00011 0.00000 1.68094 0.00000 0.00085 0.00998 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00043 0.00013 0.00280 0.00010 0.00002 2590 0.00000 0.00000 1.68094 0.00000 0.00004 0.00098 0.00000 0.00000 0.00000 0.00000	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 60% 50% 50% 50% 50% 60% 60% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NA NIOSH OSHA NIOSH OSHA OSHA OSHA OSHA OSHA	purification to c of concern, as f		

Building materials and furnishings assumed to h	ave no VOCs and off-gassing is complete_		Is IAQ acceptable at reduced outside air levels?	Yes							
		IAQP C	OSA CALCULAT	ION - IS	OLATI	ON B114					
Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupano Pz	ij	Table 6.1 OA per Occupant Rp	Table 6.1 ofmlft2 Ra	Pz°Rp Pz°Rp	Az "Ra Az "Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
Isolation B114	Educational Facilities	Office Space	99.0	2.0		1.0	0.06	2	6	0.8	10
Zone Height (feet) Desired Outside Air (Vo) IAQP Supply Air (Vs) Return Air (Vr) Recirc. Flow Factor (R) Ventilation Effectiveness (Ez) Level of Physical Activity Filter Location HVAC Flow Type Outdoor Air Flow Type	9,0 10 155 155 1,00 0,8 Sedentary B Constant	RV	A Fr (Vr + Vo) Occupied Zone e, N, C.	V,	6000 5000 4000 3000 2000 1000	2482 2	590	di oxide**	http://www.cdc 1= ASHRAE & f 2 = C02 Level at 3 = C02 Level at "Carbon dioxide for gathering de setpoints. The formal a contamina purification to c	:.gov/niosh/npg/np NOSH C02 Limit Ventilation Rate O IAQ Procedure OA	A Flow Rate A Flow Rate If for reference only lation (DCV) Council was rove C02 is n using air ntaminants
Indoor Contaminants Generated By People	Maximum Threshold Value	Steady State Using the YRP*		ls Steady State Acceptable at F		Contaminant Generation	Filtration	Cognizant]		

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the YRP" (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority***
Acetaldehyde	100.0	0.01117	0.00064	Yes	0.00032	50%	OSHA
Acetone	250.0	0.00235	0.00020	Yes	0.00433	50%	NIOSH
Ammonia	25.00	0.03752	0.00416	Yes	0.14210	50%	NIOSH
Benzene	1.0000	0.00254	0.00015	Yes	0.00015	50%	OSHA
2- Butanone (MEK)	200.0	0.00032	0.00003	Yes	0.00088	50%	NIOSH
Carbon dioxide"	5000	2482	2590	Yes	292	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	Yes	0.00003	50%	NIOSH
Dioxane	100.0	0.00000	0.00000	Yes	0.00000	50%	OSHA
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Vethane	NA NA	1.68094	1.68094	Yes	0.00000	0%	NA
/lethanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00089	0.00006	Yes	0.00080	50%	OSHA
Propane	1000.0	0.00998	0.00998	Yes	0.00000	0%	NIOSH
etrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
etrachloroethylene	100.0000	0.00037	0.00002	Yes	0.00001	50%	OSHA
oluene	100.0000	0.00536	0.00031	Yes	0.00021	50%	NIOSH
,1,1 - Trichloroethane	350.0000	0.00083	0.00005	Yes	0.00038	50%	NIOSH
Kylene	100.0000	0.00230	0.00013	Yes	0.00000	50%	OSHA
Building materials and furnishings assumed to h	ave no VOCs and off-gassing is complete		Is IAQ acceptable at reduced outside air levels?	Yes			

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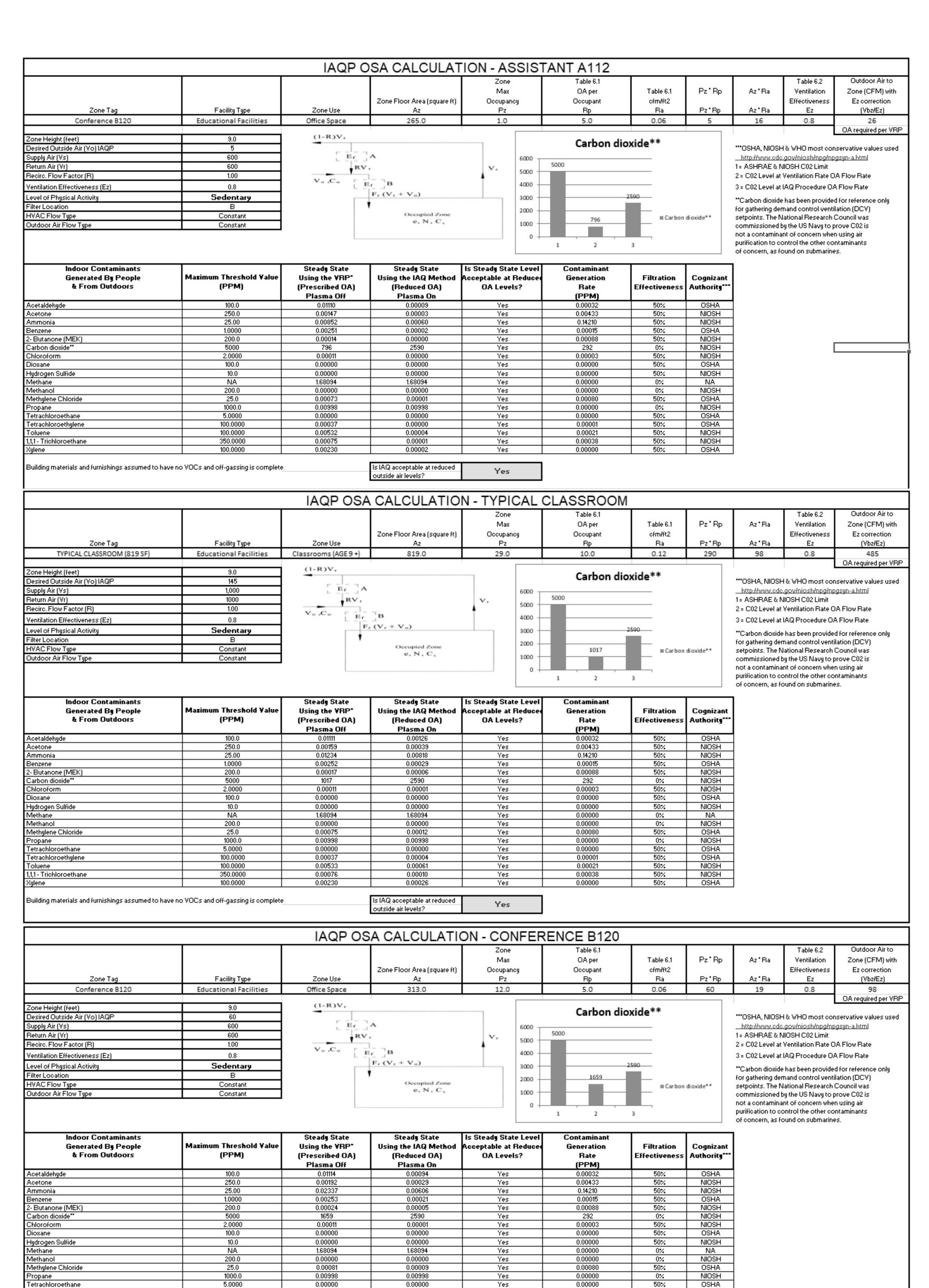


SHEET TITLE: OUTSIDE AIR CALCULATIONS

PROJ. MGR.: -	Checker
DRAWN:	Author
DATE: -	06/24/24
REVISIONS	

JOBNO. **24-38** SHEET NO:

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0.00001

0.00021

0.00038

0.00037

0.00534

0.00079

Is IAQ acceptable at reduced

outside air levels?

Yes

100.0000

100.0000

350.0000

Building materials and furnishings assumed to have no VOCs and off-gassing is complete

Tetrachloroethylene

- Trichloroethane

Toluene

50181596

Outdoor Air to

Zone (CFM) with

Ez correction

(Vbz/Ez)

37 OA required per VRF

Outdoor Air to

Zone (CFM) with

Ez correction

OA required per VRP

Outdoor Air to

Zone (CFM) with

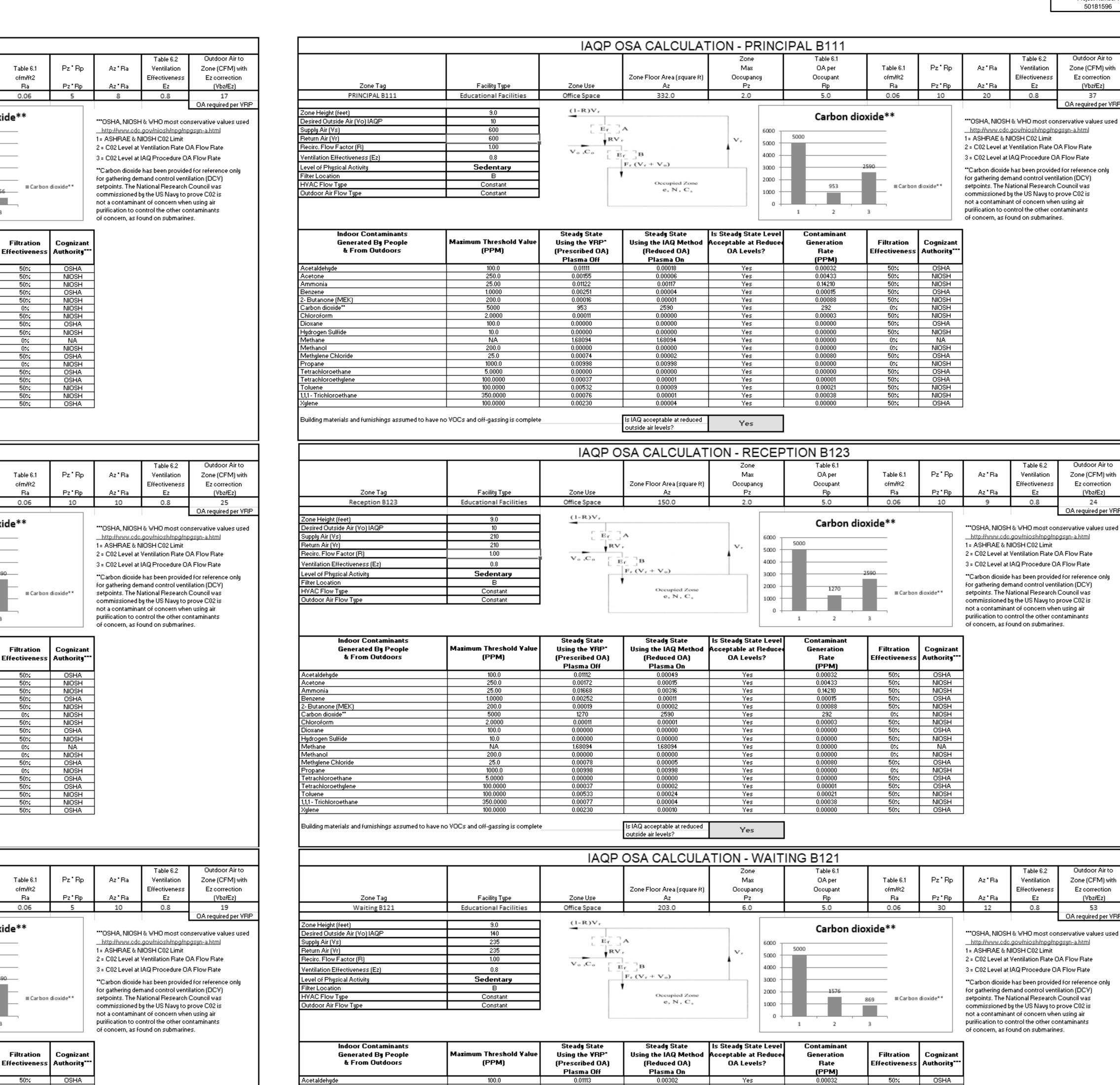
Ez correction

(VbzłEz)

53

OA required per VRP





1.0000

100.0

5.0000

100.0000

100.0000

350.0000

Building materials and furnishings assumed to have no VOCs and off-gassing is complete

Butanone (MEK

arbon dioxide"

Hydrogen Sulfide

Methylene Chloride

Tetrachloroethane

<u> Tetrachloroethylene</u>

1 - Trichloroethane

hloroform

/lethane

/lethanol

ropane :

0.00253

0.00000

0.00998

0.00000

0.00461

0.00069

0.00005

0.00003

0.00000

0.00000

1.68094

0.00000

0.00998

0.00000

0.00010

0.00145

0.00063

Is IAQ acceptable at reduced

Yes

Yes

0.14210

0.00015

0.00088

0.00000

0.00000

0.00000

0.00001

0.00038

50%

OSHA

NIOSH

IAQP OSA CALCULATION - Laundry A107

Zone Floor Area (square ft)

138.0

Occupied Zone

Steady State

Using the IAQ Method

(Reduced OA)

0.00024

0.00000

0.00000

1.68094

0.00000

0.00007

0.00998

0.00000

0.00003

0.00050

0.00007

s IAQ acceptable at reduced.

Zone Floor Area (square ft)

Occupied Zone

Using the IAQ Method

(Reduced OA)

Plasma On 0.00059

0.00018

0.00383

0.00014

0.00001

0.00000

0.00000

1.68094

0.00000

0.00006

0.00998

0.00000

0.00028

0.00005

0.00012

s IAQ acceptable at reduced.

Zone Floor Area (square ft)

Occupied Zone

Steady State

Ising the IAQ Metho

(Reduced OA)

Plasma On

0.00003

0.00001

0.00000

0.00000

0.00000

1.68094

0.00000

0.00998

0.00000

0.00005

Is IAQ acceptable at reduced

outside air levels?

e, N, C,

 $F_r (V_r + V_o)$

e, N, C,

 $F_r (V_r + V_o)$

Plasma On

e, N, C,

 $F_r (V_r + V_o)$

Zone Tag

Laundry A107

Indoor Contaminants

Generated By People

& From Outdoors

Nurse B116

Indoor Contaminants

Generated By People

& From Outdoors

OFFICE B113

Indoor Contaminants

Generated By People

& From Outdoors

one Height (feet)

Recirc, Flow Factor (R)

entilation Effectiveness (Ez)

Level of Physical Activity

itdoor Air Flow Type

Return Air (Vr)

Filter Location

etone

nmonia

Butanone (MEk

arbon dioxide*

nloroform

Hydrogen Sulfide

Aethylene Chloride

'etrachloroethane /etrachloroethylene

Trichloroethane

one Height (feet)

Recirc, Flow Factor (R)

entilation Effectiveness (Ez

evel of Physical Activity

Outdoor Air Flow Type

upply Air (Vs).

Return Air (Vr)

Filter Location

Acetaldehyde

nmonia

Chloroform Dioxane

lethane

lethanol

ropane

Hydrogen Sulfide

Aethylene Chloride

'etrachloroethane

etrachloroethylene

Cone Height (feet)

lecirc. Flow Factor (R)

Level of Physical Activity

lutdoor Air Flow Type

Ventilation Effectiveness (Ez)

Supply Air (Vs)

Return Air (Vr)

Filter Location

mmonia

- Butanone (MEK

arbon dioxide"

hloroform

Hydrogen Sulfide

1ethylene Chloride

etrachloroethane

etrachloroethylene

1 - Trichloroethane

4ethane

Methanol

Propane

HVAC Flow Type

lesired Outside Air (Vo) IAQP

Trichloroethane

·Butanone (MEI

arbon dioxide"

cetone

HVAC Flow Type

esired Outside Air (Vo) IAQP

ioxane

1ethane /lethanol

ropane

oluene

HVAC Flow Type

esired Outside Air (Vo) IAQP

Facility Type

Educational Facilities

0.8

Sedentary

Constant

Maximum Threshold Value

(PPM)

100.0000

100,0000

Facility Type

Educational Facilities

0.8

Sedentary

Constant

Constant

Maximum Threshold Yalue

(PPM)

1000.0

100.0000

350.0000

100.0000

Facility Type

Educational Facilities

490

0.8

Sedentary

Constant

Constant

Mazimum Threshold Yalue

100.0000

Building materials and furnishings assumed to have no VOCs and off-gassing is complete

Building materials and furnishings assumed to have no VOCs and off-gassing is complete.

Building materials and furnishings assumed to have no VOCs and off-gassing is complete.

Constant

Office Space

(1-R)V_r

 V_o , C_o

Using the YRP*

(Prescribed OA)

Plasma Off

0.00159

0.01243

0.00017

0.00000

0.00000

1.68094

0.00000

0.00075

0.00998

0.00000

0.00533

0.00076

Office Space

(1-R)V_r

 V_o , C_o

Steady State

Using the YRP*

(Prescribed OA)

Plasma Off

0.01601

0.00011

0.00000

0.00000

1.68094

0.00000

0.00077

0.00998

0.00000

0.00533

0.00077

0.00230

Office Space

 $(1-R)V_r$

 V_o, C_o

Steady State

Using the YRP*

(Prescribed OA)

Plasma Off

0.01115

0.00251

0.00016

0.00011

0.00000

0.00000

1.68094

0.00000

0.00998

0.00000

Max

Occupancy

Is Steady State Level

OA Levels?

Yes

Yes

Max

Occupancy

Is Steady State Level

cceptable at Reduce

Yes

Yes

Yes

Yes

Yes

Yes

Max

6000

5000

4000 -

3000

5000

Occupancy

Is Steady State Level

Acceptable at Reduce

OA Levels?

Yes

IAQP OSA CALCULATION - OFFICE B113

OA Levels?

5000

4000 -

2000 -

1000 +

IAQP OSA CALCULATION - NURSE B116

Acceptable at Reduce

6000 -

5000 -

4000 -

3000 +

2000 -

1000 +

OA per

Occupant

1022

Generation

Rate

0.0003

0.00433

0.00088

0.00000

0.00000

0.00000

0.00080

0.00000

0.00000

0.00001

0.00021

0.00038

OA per

Occupant

Generation

Rate

0.00433

0.14210

0.00003

0.00000

0.00000

0.00000

0.00080

0.00000

0.00000

0.00021

0.00038

0.00000

OA per

Occupant

5.0

948

Contaminant

Generation

Rate

0.00015

0.00088

0.00000

0.00000

0.00001

Carbon dioxide**

Carbon dioxide**

Carbon dioxide**

Table 6.1

cfm/ft2

0.06

Filtration

50%

Table 6.1

cfm/ft2

0.06

Filtration

50%

50%

50%

Table 6.1

ofm/ft2

0.06

Filtration

50%

50%

50%

No. 24747 06-24-2024 SHEET TITLE: **OUTSIDE AIR CALCULATIONS**

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Checker PROJ. MGR.: -Author DRAWN: 06/24/24 DATE: -REVISIONS

JOBNO. **24-38** SHEET NO:

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Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 ofm/ft2 Ra	Pz°Rp Pz°Rp	Az*Ra Az*Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
Workroom A106	Educational Facilities	Office Space	227.0	1.0	5.0	0.06	5	14	0.8	23
			1							OA required per VF
Zone Height (feet)	9.0	(1-R)V _r			Carbon di	ovido**				
Desired Outside Air (Vo) IAQP	10				Carbon di	oxide		""OSHA, NIOSH	H & WHO most cor	nservative values use
Supply Air (Vs)	600	Er	A	6000				http://www.odo	<u>govinioshinpging</u>	ogsyn-a.html
Return Air (Vr)	600	RV		V.	5000			1= ASHRAE & N	VIOSH C02 Limit	
Recirc. Flow Factor (R)	1.00			5000				2 = C02 Level at	Ventilation Rate C	A Flow Rate
Ventilation Effectiveness (Ez)	0.8	V _o ,C _o E	B	4000					IAQ Procedure O/	
<u> </u>			$F_r (V_r + V_o)$					3 = CUZ Level at	IMM Lipocedate O/	A Flow mate
evel of Physical Activity	Sedentary			3000				"Carbon dioxide	e has been provide	d for reference only
Filter Location	В	'		2000		1495		for gathering de	mand control venti	ilation (DCV)
HVAC Flow Type	Constant		Occupied Zone e, N, C,		844		dioxide**		Jational Research	
Dutdoor Air Flow Type	Constant		e, N, C,	1000				commissioned	by the US Navy to p	prove C02 is
Indoor Contaminants	Maximum Threshold Value	Steady State	-	Is Steady State Level	1 2 Contaminant Generation	3 Filtration	Cognizant	•	ant of concern whe ontrol the other co ound on submarine	ontaminants
Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Using the YRP* (Prescribed OA)	Using the IAQ Method (Reduced OA)	Is Steady State Level	Contaminant Generation Rate	Filtration Effectiveness	Cognizant Authority***	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors	(PPM)	Using the YRP* (Prescribed OA) Plasma Off	Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Effectiveness	Authority	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde	(PPM) 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111	Using the IAQ Method (Reduced OA) Plasma On 0.00018	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM) 0.00032	Effectiveness	Authority*** OSHA	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone	(PPM) 100.0 250.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes	Contaminant Generation Rate (PPM) 0.00032 0.00433	Effectiveness 50% 50%	Authority*** OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia	(PPM) 100.0 250.0 25.00	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00060	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210	50% 50% 50%	OSHA NIOSH NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene	(PPM) 100.0 250.0 25.00 1.0000	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00060	Is Steady State Level Acceptable at Reduce OA Levels? Yes Yes Yes Yes Yes Yes	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015	50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK)	(PPM) 100.0 250.0 25.00 1.0000 200.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00060 0.00004	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088	50% 50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide"	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015 844	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00060 0.00004 0.00001	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292	50% 50% 50% 50% 50% 50% 0%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide** Chloroform	(PPM) 100.0 250.0 25,00 1,0000 200.0 5000 2,0000	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00251 0.00015 844 0.00011	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.000004 0.00001 1495 0.00000	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003	50% 50% 50% 50% 50% 50% 0% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide** Chloroform Dioxane	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015 844 0.00011 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00000 0.00004 0.00001 1495 0.00000 0.00000	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000	50% 50% 50% 50% 50% 50% 0% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide** Chloroform Dioxane Hydrogen Sulfide	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015 844 0.00011 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00251 0.00015 844 0.00011 0.00000 0.00000 1.68094	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000 0.00000	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000	50% 50% 50% 50% 50% 50% 0% 50% 50% 50% 5	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide** Chloroform Dioxane Hydrogen Sulfide	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015 844 0.00011 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA 200.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015 844 0.00011 0.00000 0.00000 1.68094 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000 0.00000 1.68094 0.00000	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.000000 0.000000	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	OSHA NIOSH NIOSH OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride	(PPM) 100.0 250.0 250.0 1,0000 200.0 5000 2,0000 100.0 100.0 NA 200.0 25.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00251 0.00015 844 0.00011 0.00000 0.00000 1.68094 0.00073	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000 0.00000 1.68094 0.00001	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.000000 0.000000 0.000000	50% 50% 50% 50% 50% 50% 50% 50% 0% 50% 5	OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH OSHA NIOSH NIOSH OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane	(PPM) 100.0 250.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 10.0 NA 200.0 25.0 1000.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00251 0.00015 844 0.00011 0.00000 1.68094 0.00000 0.000073 0.00998 0.00000 0.00000 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000 0.00000 1.68094 0.00000 0.00000 0.000001 0.000001 0.000001 0.000001 0.000001	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 60% 50% 50% 50% 50% 60% 60% 60% 60%	OSHA NIOSH NA NIOSH NIOSH OSHA NIOSH OSHA OSHA OSHA	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane Fetrachloroethylene Foluene	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 100.0 NA 200.0 25.0 1000.0 5.0000 100.0000	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00936 0.00251 0.00015 844 0.00011 0.00000 1.68094 0.00000 0.00000 0.00073 0.00998 0.000037 0.00037	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000 0.00000 1.68094 0.00000 0.00000 0.00000 0.000001 0.00998 0.000001 0.000001 0.000001	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	OSHA NIOSH NA NIOSH OSHA NIOSH OSHA NIOSH OSHA NIOSH	purification to coor of concern, as fo	ontrol the other co	ontaminants
Generated By People & From Outdoors Acetaldehyde Acetone Ammonia Benzene 2- Butanone (MEK) Carbon dioxide" Chloroform Dioxane Hydrogen Sulfide Methane Methanol Methylene Chloride Propane Fetrachloroethylene	(PPM) 100.0 250.0 25.00 1.0000 200.0 5000 2.0000 100.0 10.0 NA 200.0 25.0 1000.0 100.0 100.0 100.0	Using the YRP* (Prescribed OA) Plasma Off 0.01111 0.00150 0.00251 0.00015 844 0.00011 0.00000 1.68094 0.00000 0.000073 0.00998 0.00000 0.00000 0.00000 0.00000	Using the IAQ Method (Reduced OA) Plasma On 0.00018 0.00004 0.00004 0.00001 1495 0.00000 0.00000 0.00000 1.68094 0.00000 0.00000 0.000001 0.000001 0.000001 0.000001 0.000001	Is Steady State Level Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Contaminant Generation Rate (PPM) 0.00032 0.00433 0.14210 0.00015 0.00088 292 0.00003 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	50% 50% 50% 50% 50% 50% 50% 50% 60% 50% 50% 50% 60% 60% 60% 50% 60% 50% 60% 50%	OSHA NIOSH NA NIOSH NIOSH OSHA NIOSH OSHA OSHA OSHA	purification to coor of concern, as fo	ontrol the other co	ontaminants

2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number:

50181596



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13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



SHEET TITLE:
OUTSIDE AIR CALCULATIONS

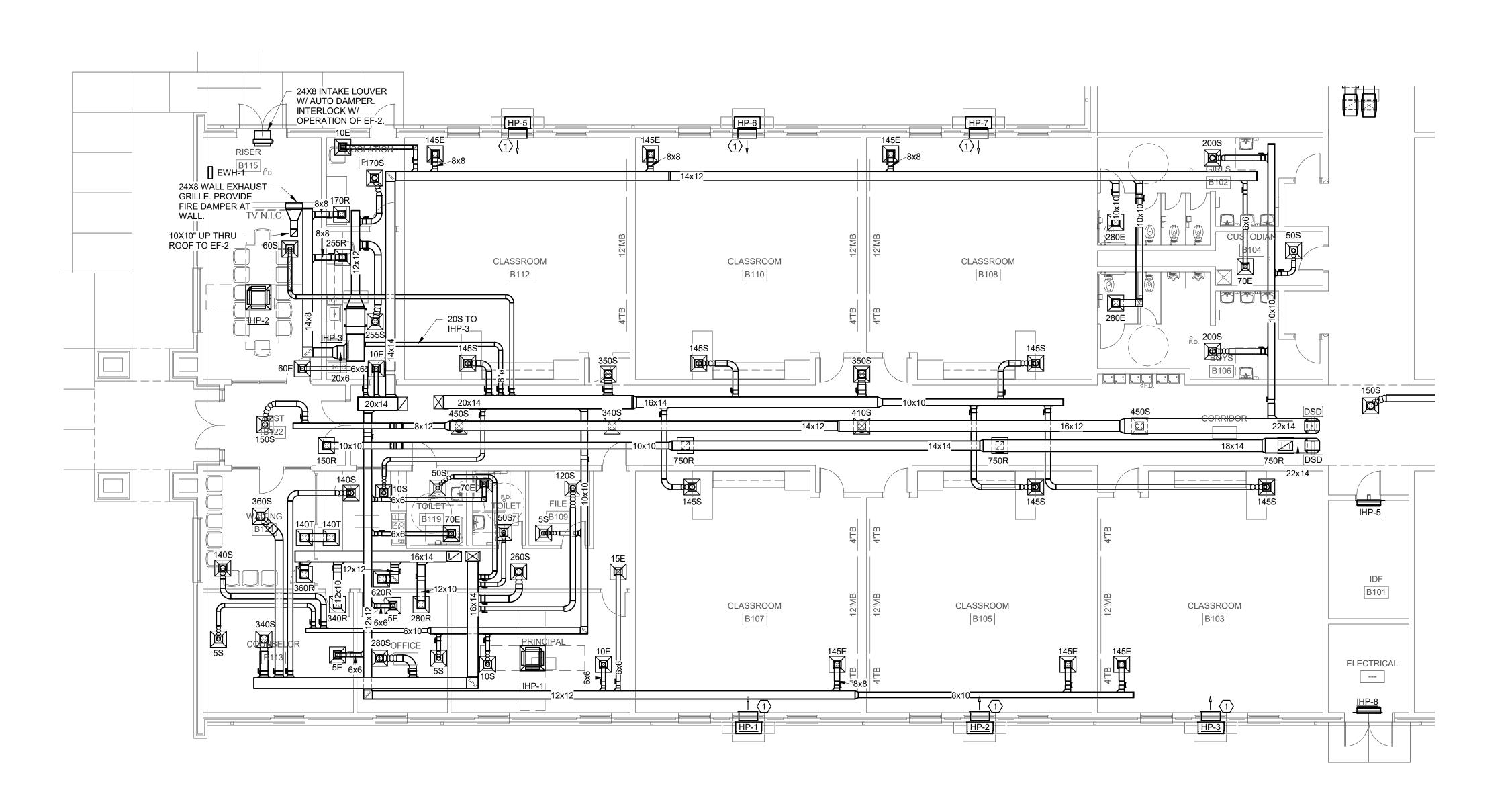
PROJ. MGR.: -	Checker
DRAWN:	Author
DATE: -	06/24/24
REVISIONS	

JOBNO. **24-38**

SHEET NO:

MO.8

8 OF 17

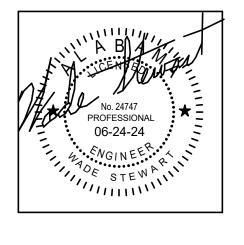


MECHANICAL - FLOOR PLAN - PART A

1/8" = 1'-0"

ELEMENTARY ADDITION TO

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13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION





PROJ. MGR.: -	JWS
DRAWN:	BDL
DATE: -	06/24/24
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JOBNO. 24-38

SHEET NO:

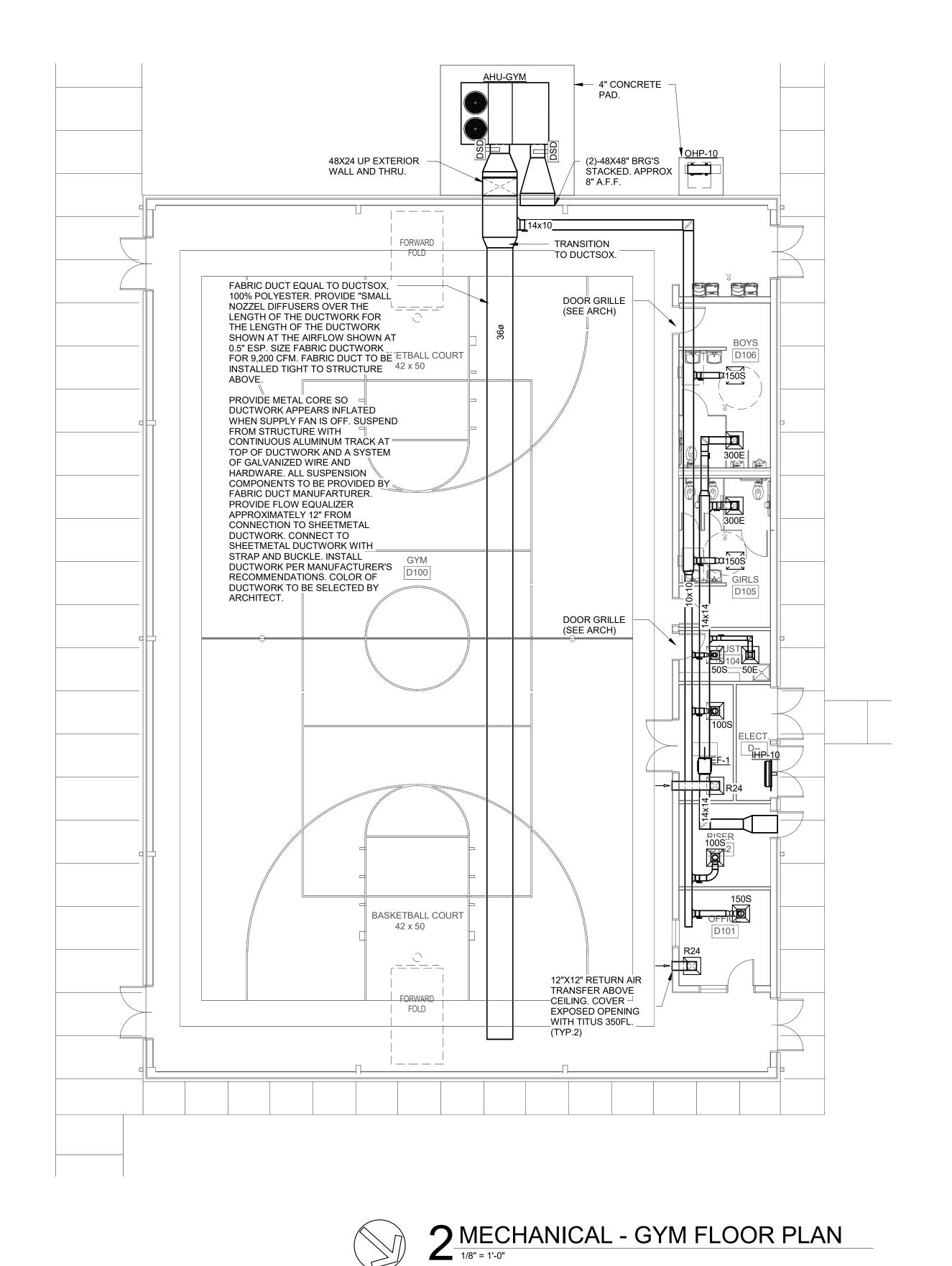
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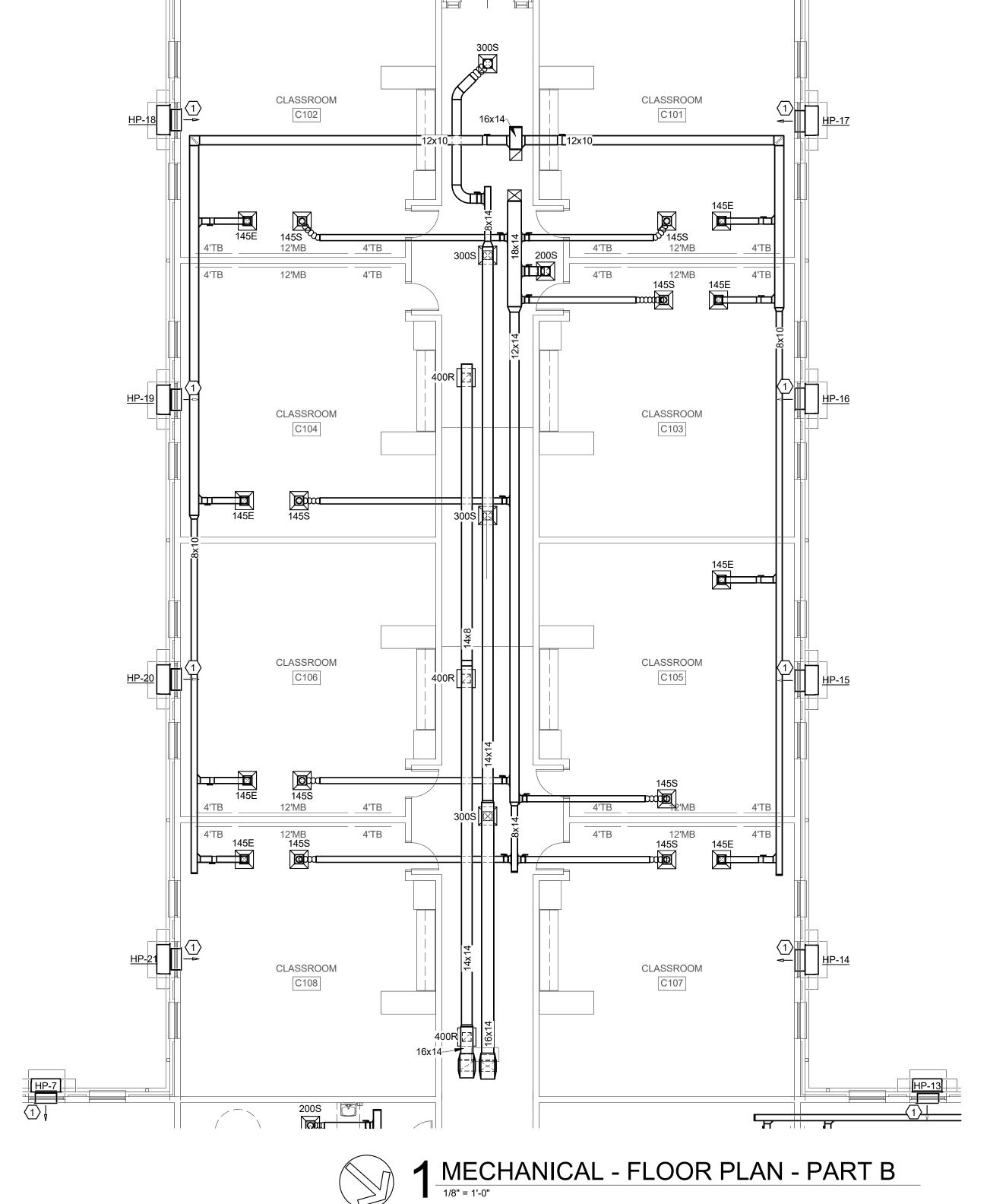
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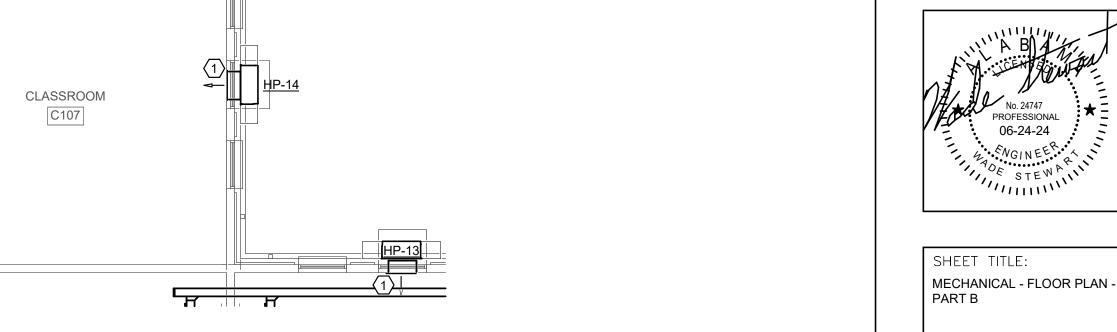
KEY PLAN

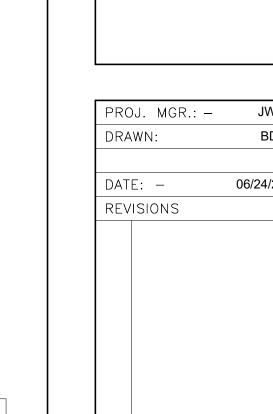
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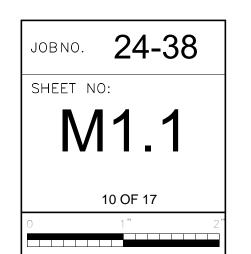


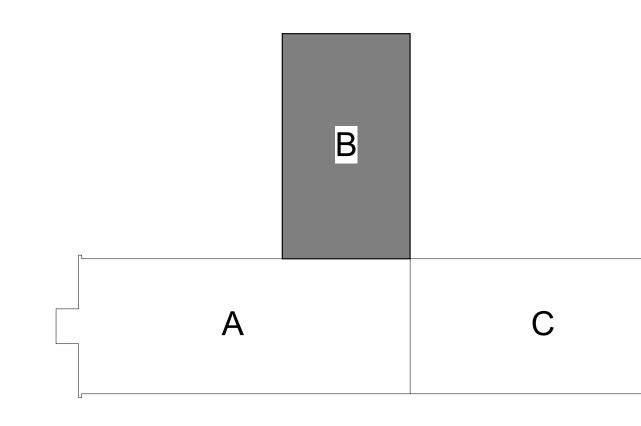




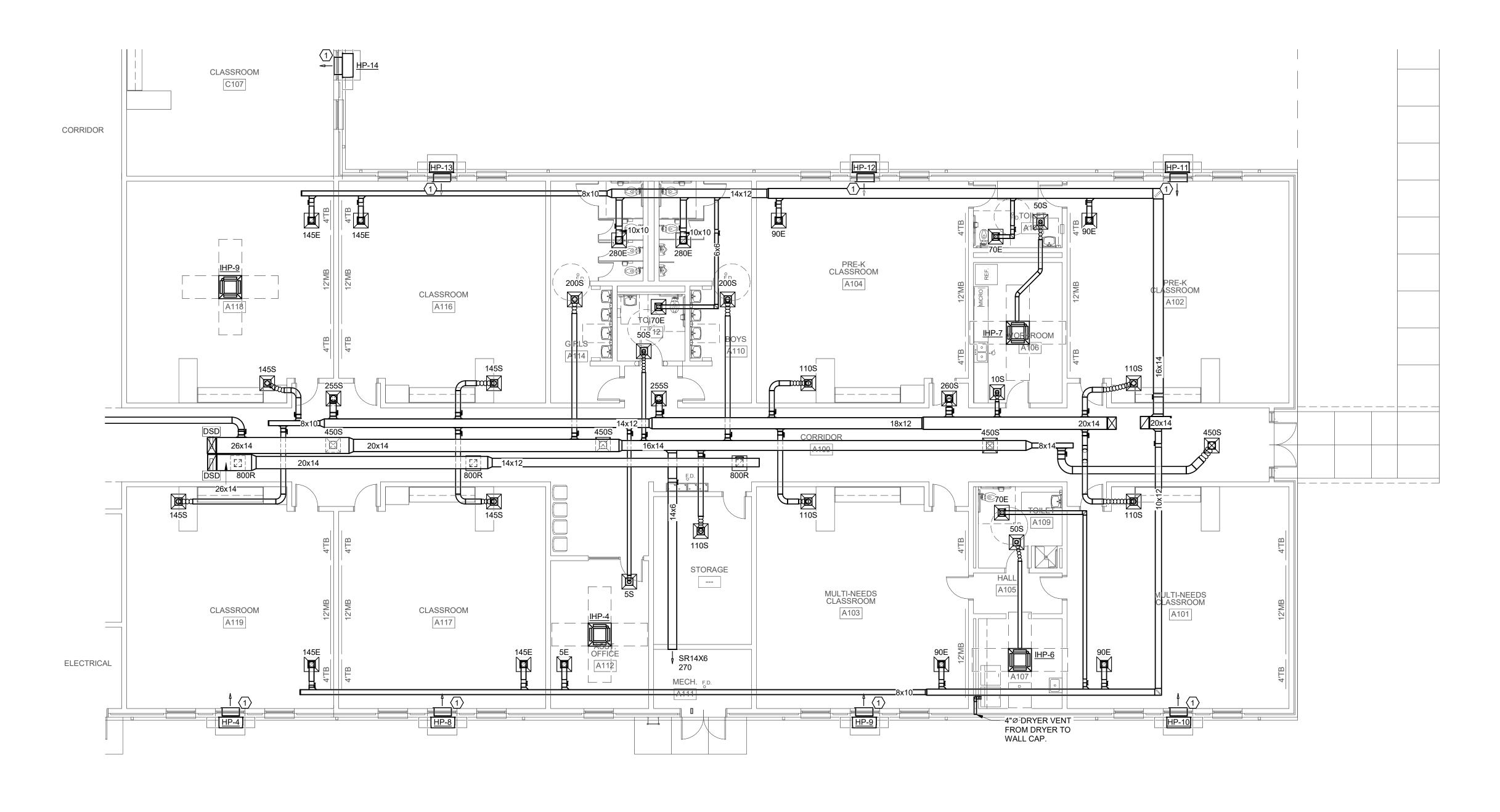


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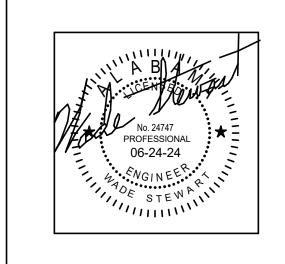








1 MECHANICAL - FLOOR PLAN - PART C



SHEET TITLE:

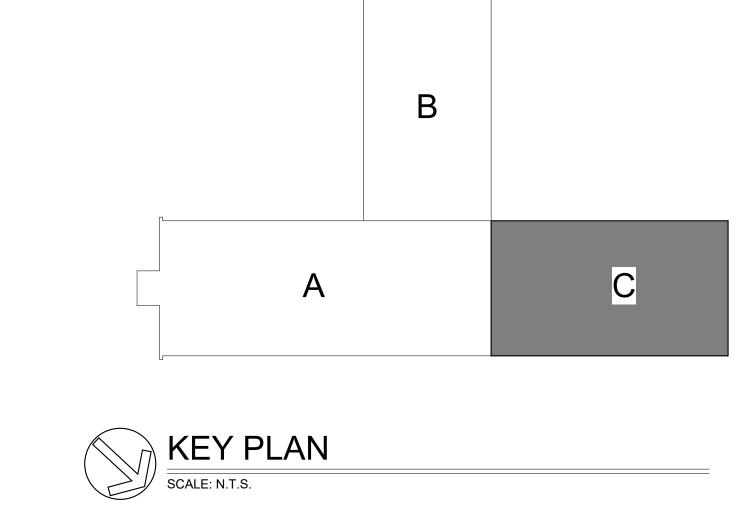
MECHANICAL - FLOOR PLAN PART C

PROJ. MGR.: -	JWS
DRAWN:	BDL
DATE: —	06/24/24
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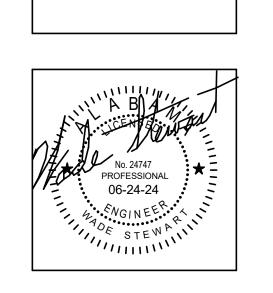
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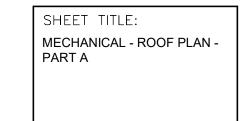
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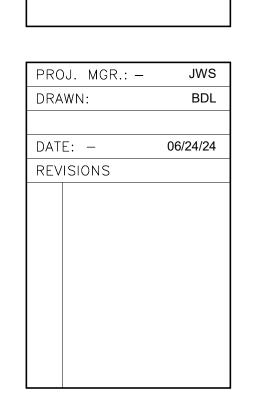
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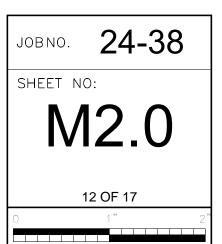


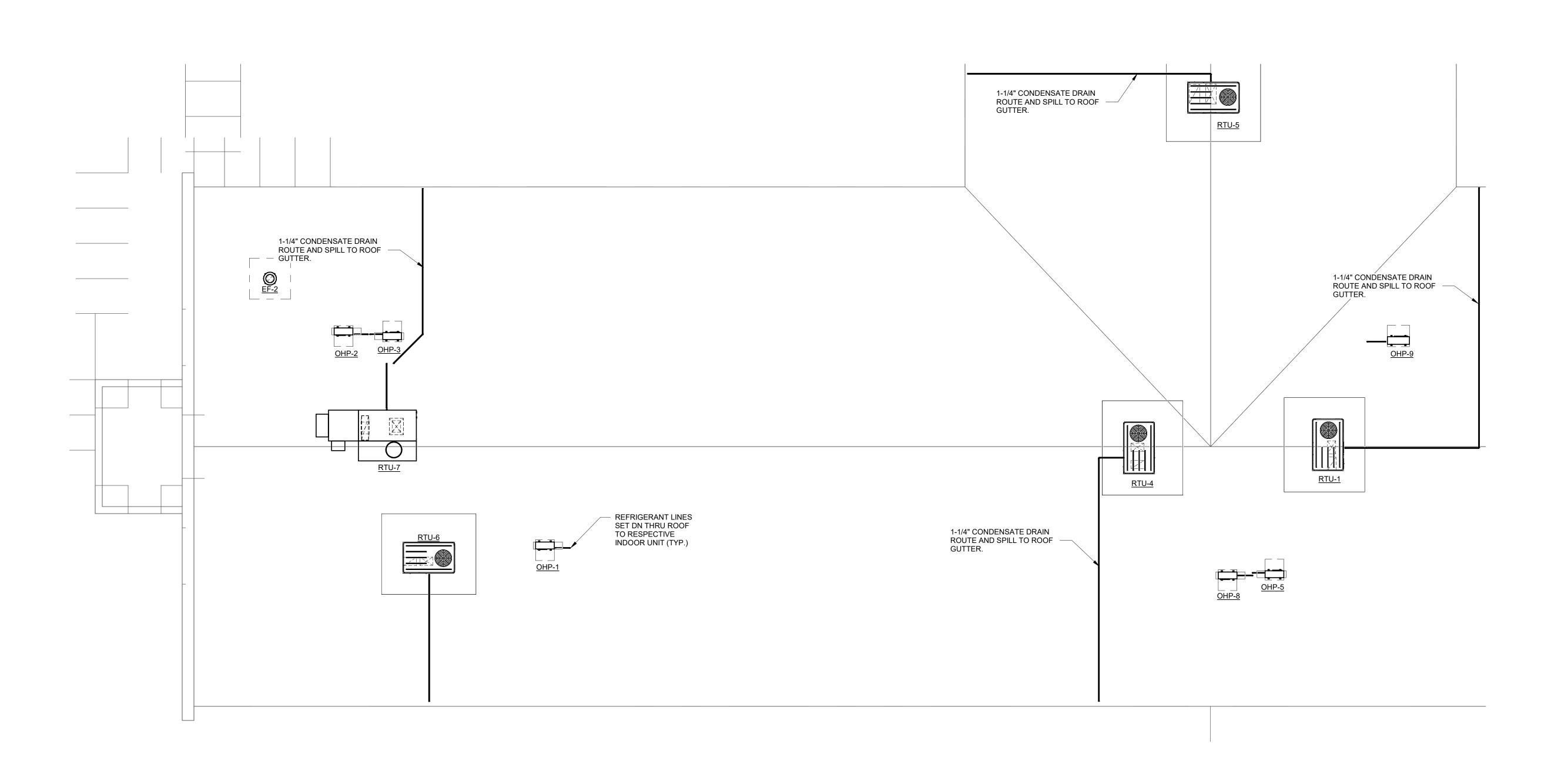




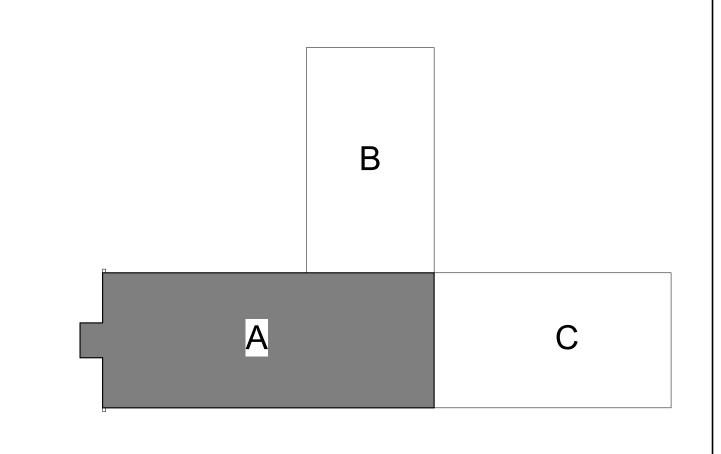




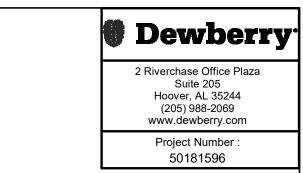






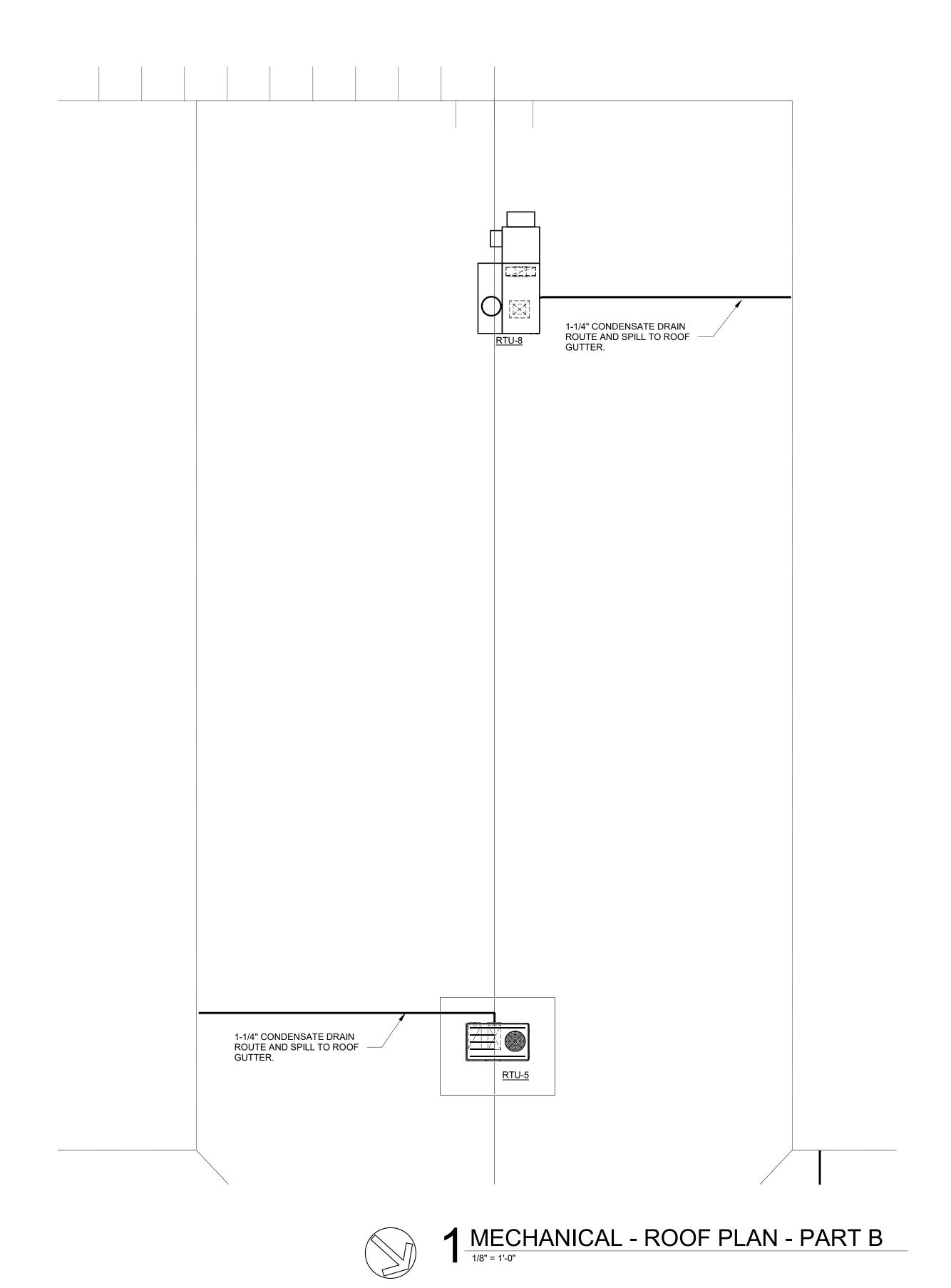


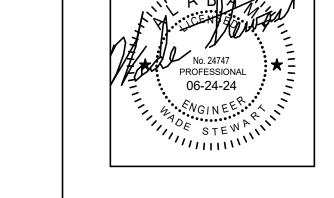






HIGH SCHOOL





SHEET TITLE:

MECHANICAL - ROOF PLAN PART B

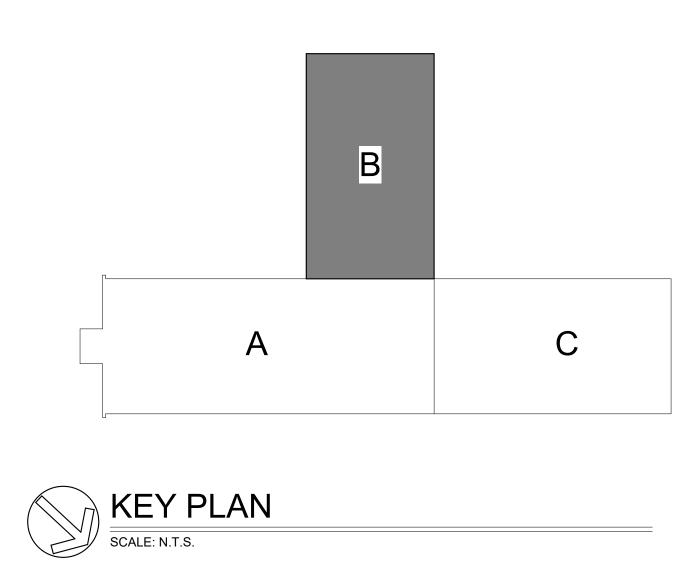
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DRAWN:	BDL
DATE: -	06/24/24
REVISIONS	

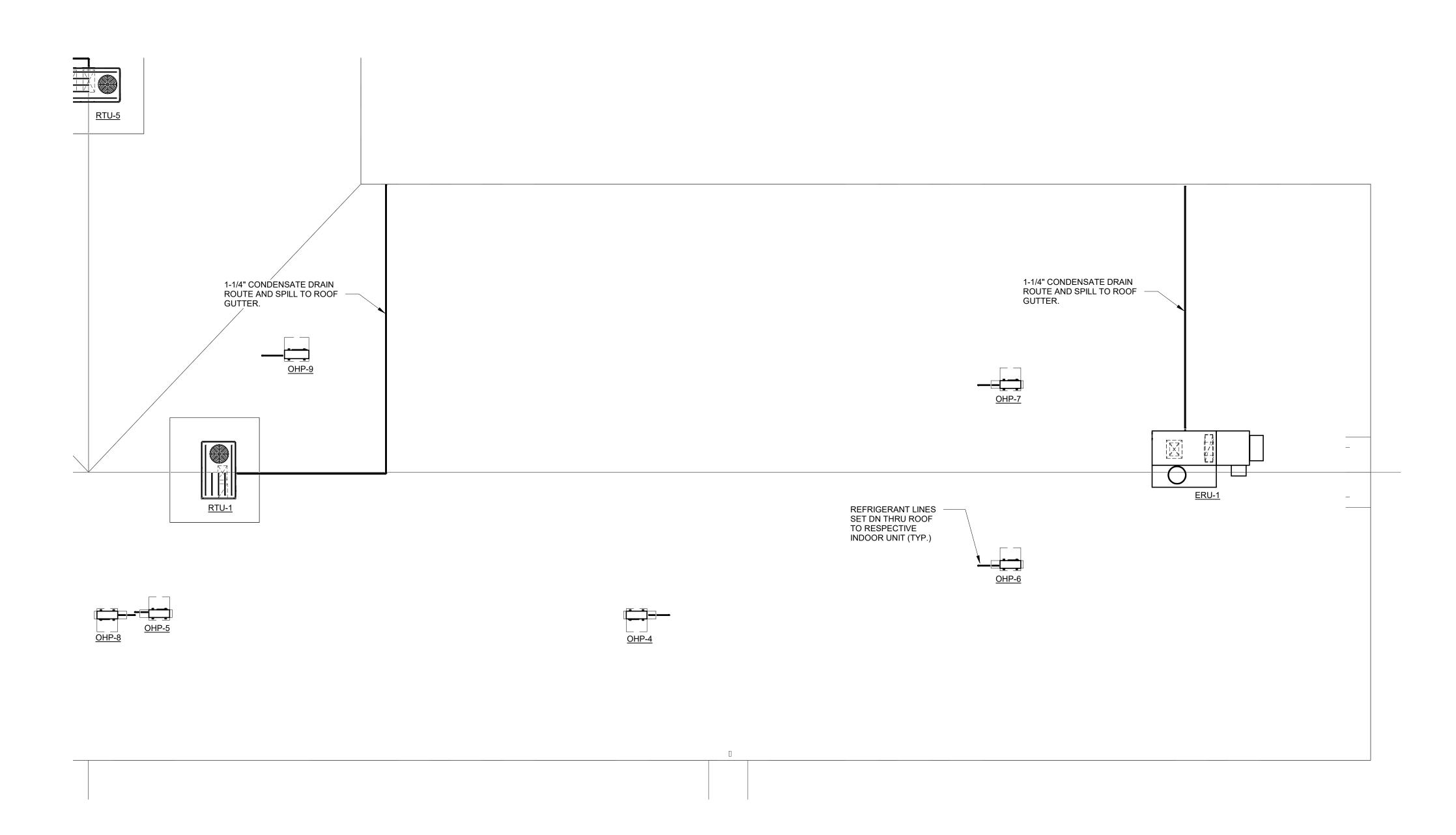
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SHEET NO:

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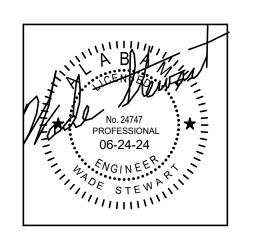
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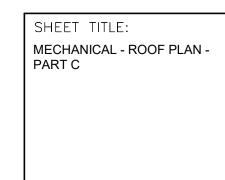




1 MECHANICAL - ROOF PLAN - PART C







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DRAWN:	BDL
	20/21/21
DATE: -	06/24/24
REVISIONS	

JOBNO. 24-38

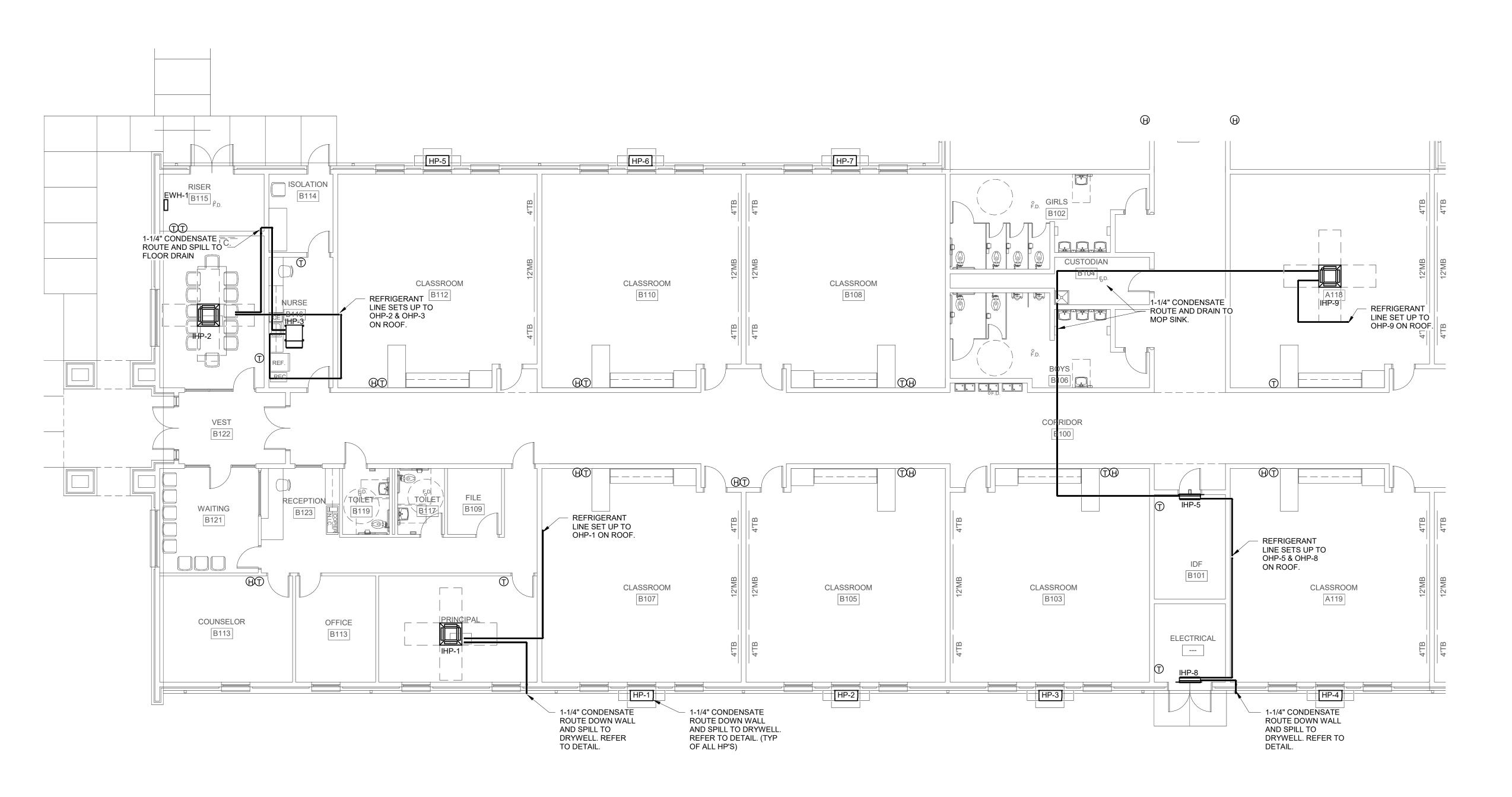
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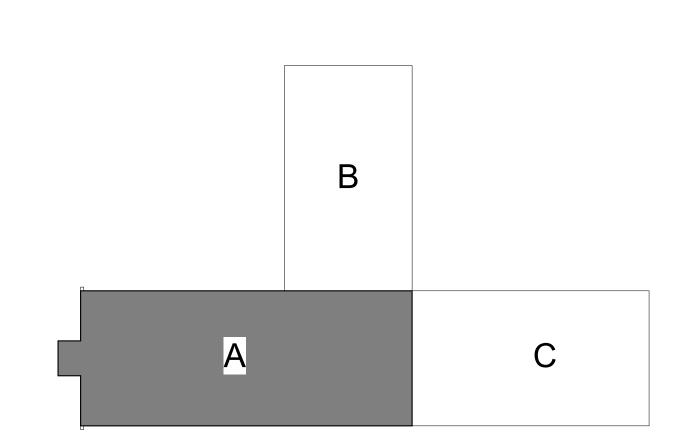
14 OF 17

KEY PLAN

SCALE: N.T.S.



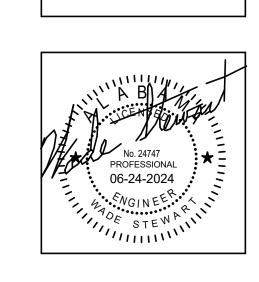
1 MECHANICAL PIPING - FLOOR PLAN - PART A





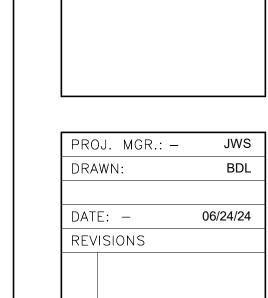
ELEMENTARY ADDITION TO

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MECHANICAL PIPING - FLOOR PLAN - PART A

SHEET TITLE:

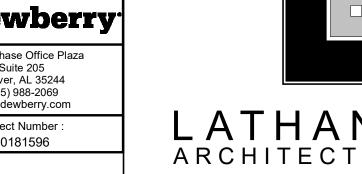


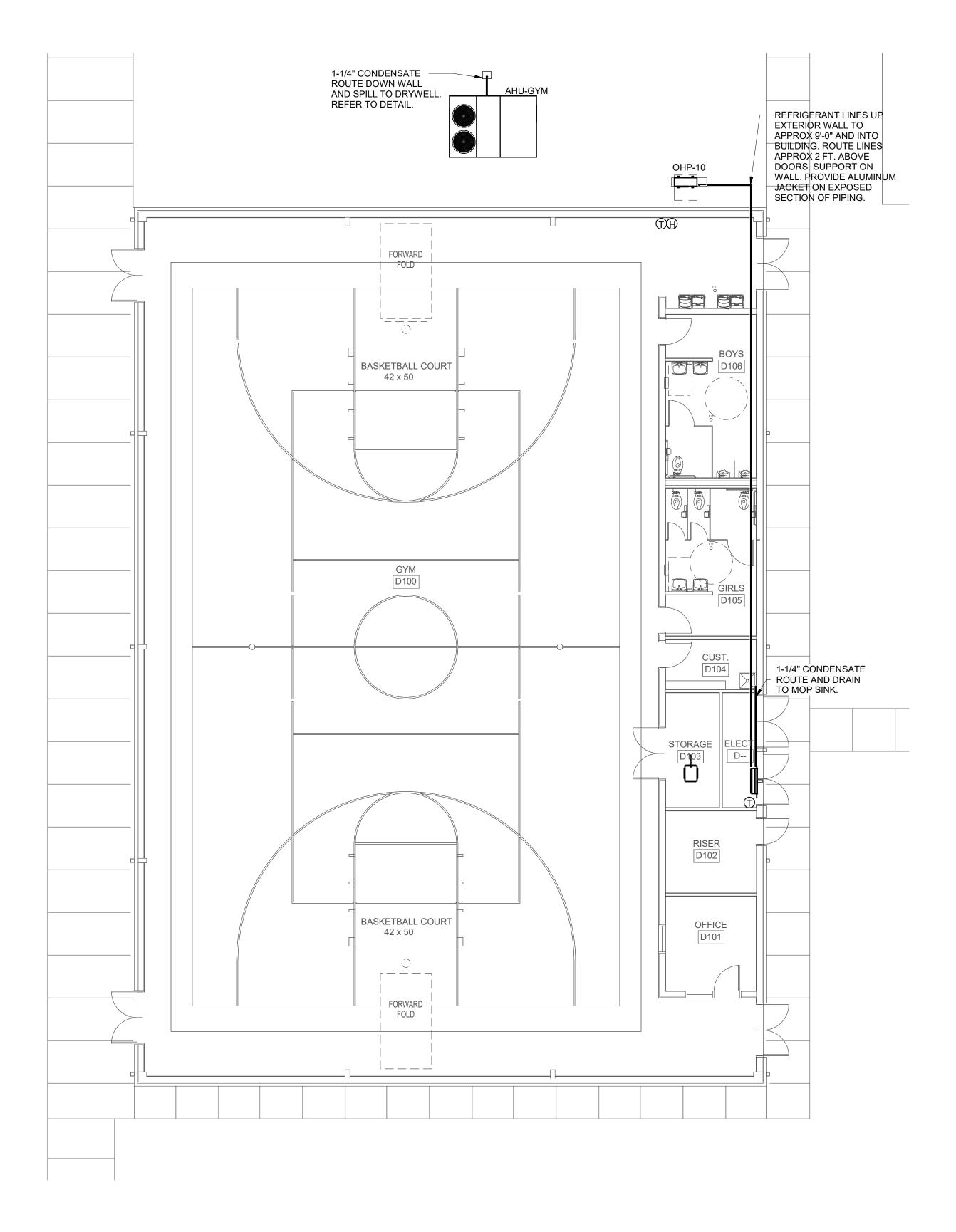
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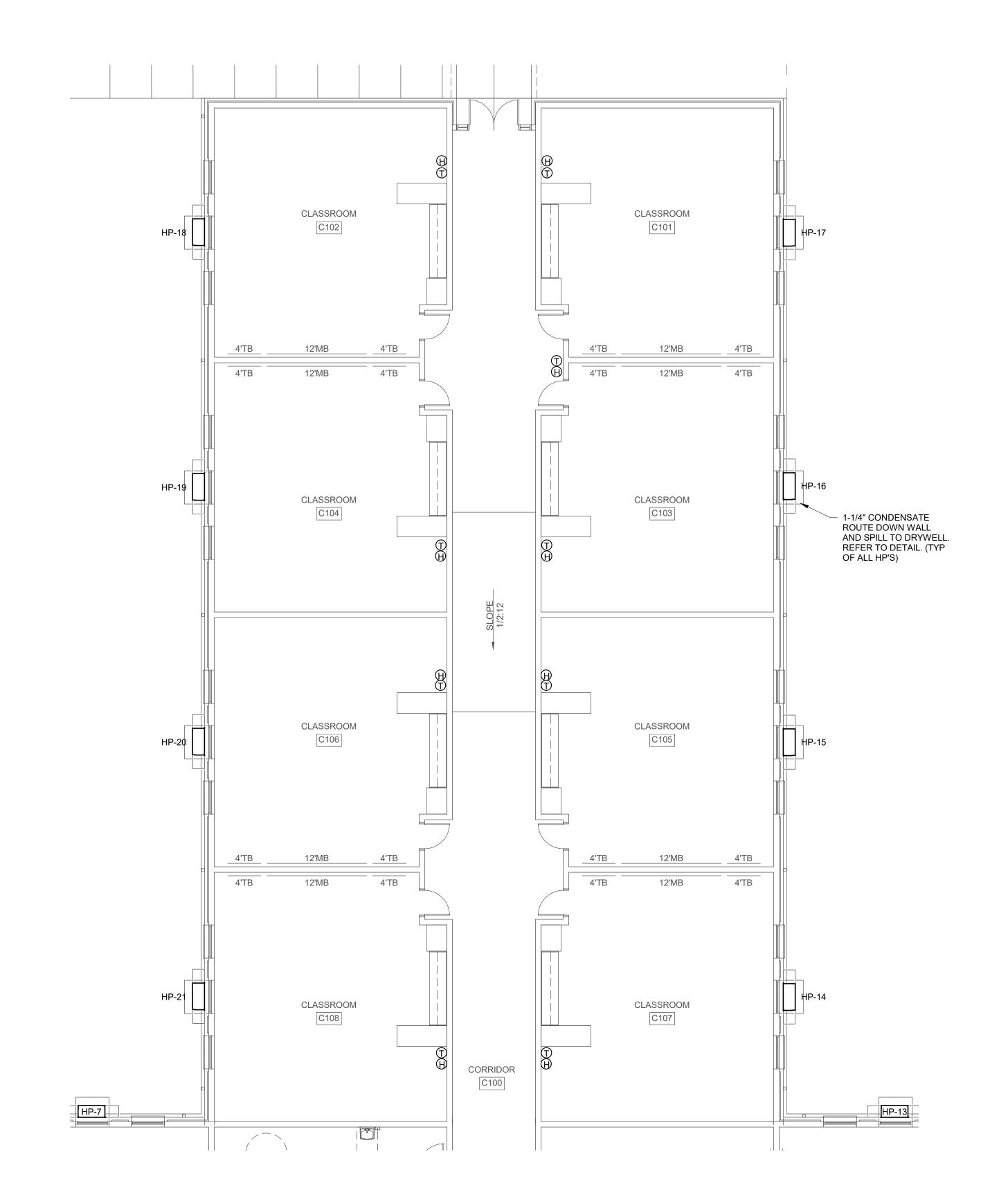
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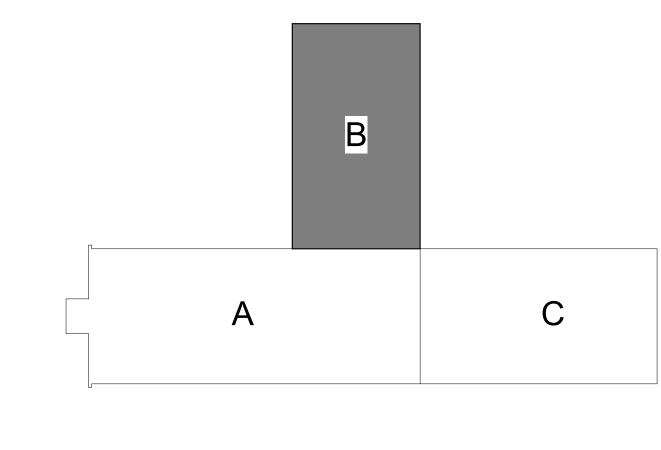


2 MECHANICAL PIPING - GYM FLOOR PLAN

1/8" = 1'-0"



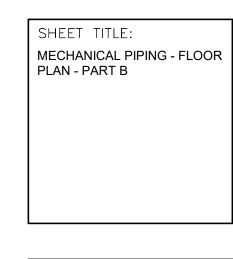
MECHANICAL PIPING - FLOOR PLAN - PART B

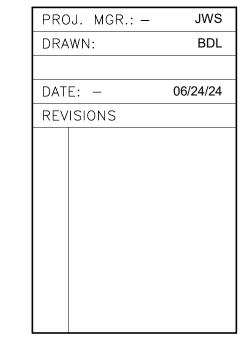




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SUMTER COUNTY BOARD OF EDUCATION



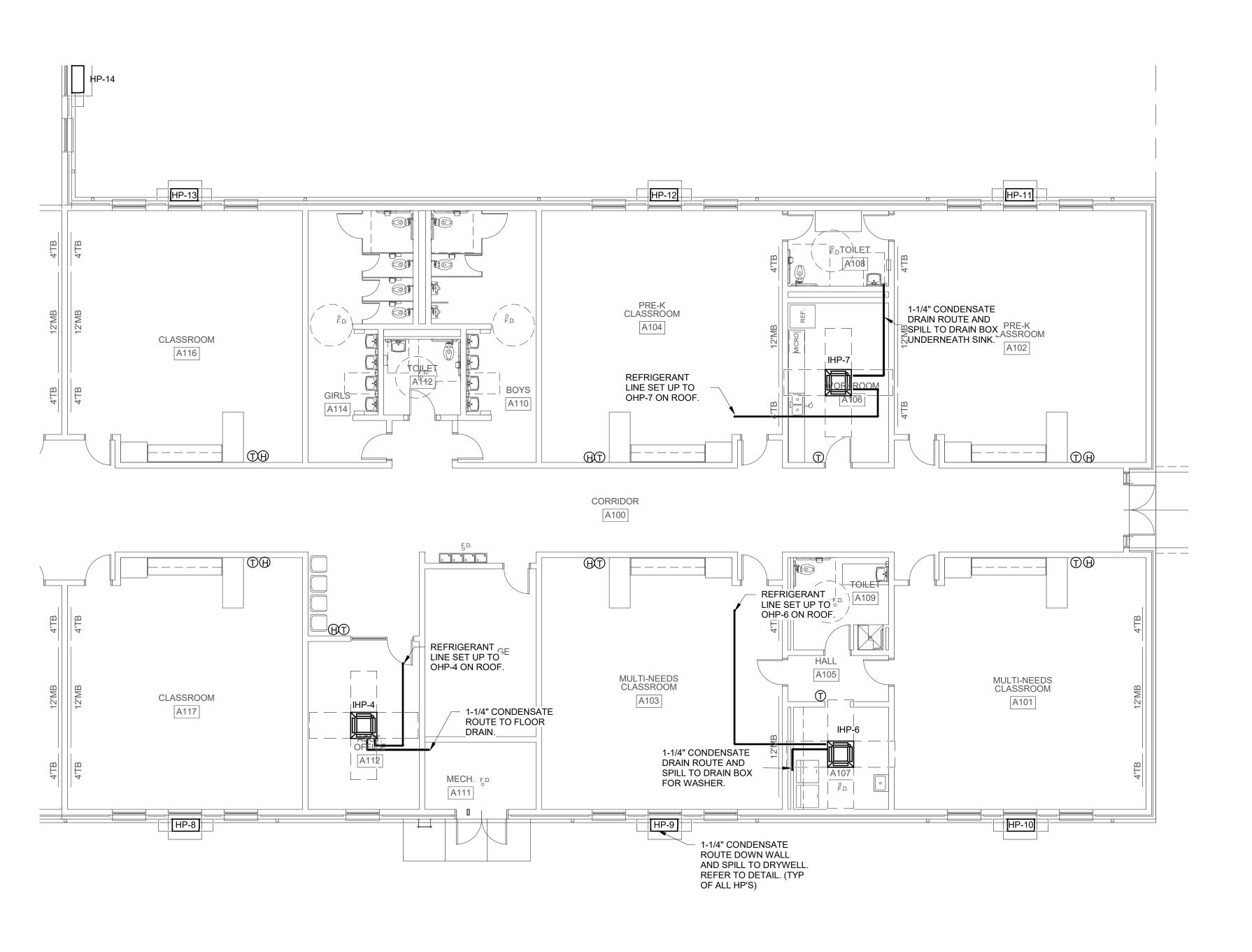




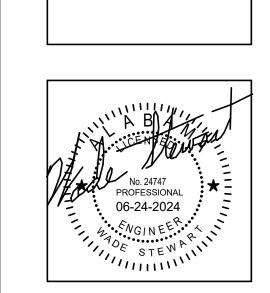
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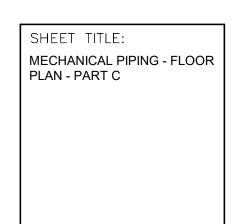
16 OF 17



1 MECHANICAL PIPING - FLOOR PLAN - PART C



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DRAWN:	BDL
DATE: -	06/24/24
REVISIONS	

JOBNO. 24-38

SHEET NO:

M3.2

17 OF 17

KEY PLAN

SCALE: N.T.S.

CONCEALED IN CEILING, WALL, OR IN CEILING SLAB.

—— EXPOSED.

FOR EXAMPLE:

SCHEMATIC

∠ EMERGENCY.

✓ SF CONDUIT SEAL FITTING.

CONCEALED IN OR BELOW FLOOR OR UNDERGROUND

HOMERUN TO PANELBOARD AND 20A, 1P BREAKER, UON.

——/// / 4#12 AND 1#12(G)-3/4"C

——10 —— 2#10 AND 1#10(G)-3/4"(

——10 /// 3#10 AND 1#10(G)-3/4"C

BRANCH CIRCUIT WIRING FOR LIGHTING IS SHOWN SCHEMATICALLY.

REQUIRED INSTALLATION

NOTE: SHOWN 2#12 AND 1#12(G)-3/4"C,

RISER: UP, RUNNING TO SOURCE.

RISER: DOWN, RUNNING TO SOURCE

EMPTY CONDUIT, 3/4" UNLESS OTHERWISE NOTED WITH NYLON PULL CORD.

SIZE CONDUIT PER NEC FOR GREATER NUMBER OF

SIZED IN ACCORDANCE WITH NEC TABLE 250-122.

EACH LUMINAIRE IS TO BE INSTALLED WITH AN INDIVIDUAL FLEXIBLE CONNECTION.

CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT

INDICATES AWG WIRE SIZE AND HASHMARKS INDICATE

NUMBER OF WIRES REQUIRED. GROUND WIRE SHALL BE

NUMBER OF HASHMARKS DO NOT INCLUDE GROUND WIRE.

NON-ACCESSIBLE CEILING

(SEE NEC 410)

STANDADD WALL MOUNTING BEIGHTS

STANDA	<u> RD WALL M</u>	OUNTING HE	<u>:IGH15</u>				
DEVICE OR EQUIPMENT TYPE	MOUNTING HEIGHT (AFF/AFG)	MEASURED TO	NOTES				
PANELBOARDS	78"	TOP	1, 3				
PLUGMOLD AND WIREMOLD	SEE NOTES	TOP	1, 4				
RECEPTACLES - NORMAL AREAS	18"	CENTER	1				
RECEPTACLES - ABOVE COUNTER	SEE NOTES	TOP	1, 4				
RECEPTACLES - EXTERIOR AREAS	18"	CENTER	1				
RECEPTACLES - UNDER COUNTER	18"	CENTER	1				
SAFETY SWITCHES	78"	TOP	1, 3				
SENSORS - WALL MOUNTED	96"	TOP	1, 2				
ENCLOSED CIRCUIT BREAKERS	78"	TOP	1, 3				
FA NOTIFICATION DEVICES	84"	воттом	1				
FA PULL STATIONS	48"	TOP	1				
LIGHT SWITCHES	48"	TOP	1				
AV, COAX, DATA & TELECOM	18"/ SEE NOTES	CENTER	1, 4				
DOOR ACCESS & CONTROLS	48"	TOP	1				
VARIABLE FREQUENCY DRIVES	78"	TOP	1, 3				
WALL PHONE	48"	TOP	1				
MOTOR STARTERS	78"	TOP	1, 3				
CLOCKS	90"	CENTER	1				
CARD READERS	48"	TOP	1				
INTERCOMM CALL INS	48"	TOP	1				

- UNLESS NOTED OTHERWISE. WALL MOUNTING HEIGHTS INDICATED ON DRAWINGS OR DETAILS SHALL SUPERSEDE STANDARD WALL MOUNTING HEIGHTS LISTED HERE. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. ADJUST TO MATCH MASONRY COURSES, IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
- CEILING HEIGHT PERMITTING, OTHERWISE MOUNT 12" BELOW CEILING TO TOP OF BOX.
- MOUNTING HEIGHT AS MEASURED TO TOP OF ENCLOSURE OR CENTER OF OPERATING HANDLE AT HIGHEST POSITION. WHICHEVER IS HIGHER. STACKING OF SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS AND MOTOR STARTERS IS PERMITTED.
- MOUNT 6" ABOVE COUNTERTOP OR BACKSPLASH (IF APPLICABLE) TO TOP OF BOX. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO

<u>PANELBOARDS</u>

- LIGHTING & APPLIANCE ELECTRICAL PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS. POWER DISTRIBUTION ELECTRICAL PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS.
- ELECTRICAL SWITCHBOARD OR SWITCHGEAR: SEE PANELBOARD SCHEDULE AND **SPECIFICATIONS**

RECEPTACLES

ALL 15-AND 20-AMPERE. 125-AND 250-VOLT NONLOCKING-TYPE RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED BELOW. SEE NEC 406.12. **EXCEPTIONS:**

1. RECEPTACLES LOCATED MORE THAN 5 1/2 FT ABOVE THE FLOOR 2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE 3. A SINGLE RECEPTACLE, OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES, LOCATED WITHIN THE DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER AND THAT IS CORD-AND-PLUG-CONNECTED IN ACCORDANCE WITH NEC 400.10(A)(6), (A)(7), OR (A)(8).

WALL MOUNTED DUPLEX RECEPTACLE - NEMA 5-20R RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R SPLIT WIRED RECEPTACLE - NEMA 5-20R ISOLATED GROUND RECEPTACLE - NEMA 5-20R IG ıG⊕ GROUND FAULT RECEPTACLE - NEMA 5-20R GF

GROUND FAULT RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R GF WEATHER PROOF RECEPTACLE - NEMA 5-20R GFCI W/ WET LOCATION COVER WP<u></u> QUADRUPLEX GROUND FAULT RECEPTACLE - NEMA 5-20R GF QUADRUPLEX GROUND FAULT RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R GF QUADRUPLEX RECEPTACLE - NEMA 5-20R

SIMPLEX RECEPTACLE - NEMA 5-20R SIMPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION SINGLE RECEPTACLE - SPECIAL PURPOSE

QUADRUPLEX RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R

SINGLE RECEPTACLE - A=NEMA 5-50R; B=NEMA 6-50R; C=NEMA 14-50R MULTI-SERVICE WALL RECEPTACLE DUPLEX RECEPTACLE - NEMA 5-20R WITH TWO FULL OUTPUT USB PORTS

SINGLE RECEPTACLE - A=NEMA 5-30R; B=NEMA 6-30R; C=NEMA 14-30R

CEILING MOUNTED

DUPLEX RECEPTACLE - NEMA 5-20R DUPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT SIMPLEX RECEPTACLE - NEMA 5-20R

SINGLE RECEPTACLE - TWISTLOCK, AS SPECIFIED

SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION SINGLE RECEPTACLE - SPECIAL PURPOSE

POWER

ті 🗲

GENERATOR ALARM / ANNUNCIATOR PANEL FAN / FAN-COIL UNIT PACKAGED AIR CONDITIONING UNIT $\square \square \square$ ELECTRIC DUCT HEATER UNIT HEATER WITH FAN ELECTRIC BASEBOARD HEATER ELECTRIC CABINET HEATER MAGNETIC MOTOR STARTER COMBINATION MAGNETIC STARTER & DISCONNECT SWITCH ELECTRIC MOTOR DISCONNECT SWITCH, UNFUSED, 30A, 3P UNLESS OTHERWISE NOTED. DISCONNECT SWITCH, FUSED, 30A, 3P UNLESS OTHERWISE NOTED.

VARIABLE SPEED / VARIABLE FREQUENCY DRIVE CONTACTOR CIRCUIT BREAKER, INDIVIDUALLY ENCLOSED

CONTROL PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH METER (WITH SOCKET ASSSEMBLY)

TRANSFORMER, GENERAL PURPOSE DRY-TYPE, REFER TO SCHEDULE ABORT SWITCH - EMERGENCY POWER OFF

POWER POLE

JUNCTION & OUTLET BOXES

JUNCTION BOX - CEILING MOUNTED V/D(J)VOICE/DATA JUNCTION BOX - CEILING MOUNTED JUNCTION BOX - FLOOR MOUNTED JUNCTION BOX - WALL MOUNTED OUTLET BOX - WALL MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT OUTLET BOX - WALL MOUTNED, VOICE/DATA WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT OUTLET BOX - FLOOR MOUNTED, WITH FLEXIBLE HARD WIRED

POWER AND AUXILIARY - FLOOR OUTLETS

CONNECTION TO EQUIPMENT

<u>POUR IN PLACE (FLUSH UNLESS OTHERWISE NOTED)</u> NEMA 5-20R DUPLEX RECEPTACLE.

30A RECEPTACLE 50A RECEPTACLE

SPECIAL-PURPOSE RECEPTACLE

MULTI-SERVICE W/ NEMA 5-20R DUPLEX RECEPTACLE & VOICE/DATA OUTLET #V AND #D INDICATE NUMBER OF VOICE DATA OUTLETS.

MULTI-SERVICE FLOOR POCKET W/ NEMA 5-20R RECEPTACLE VOICE/DATA. AND MICROPHONE OUTLETS. #V AND #D INDICATE NUMBER OF VOICE DATA OUTLETS.

VOICE/DATA WITH FLEXIBLE CONNECTION TO EQUIPMENT

DEVICE WITH DIRECT FLEXIBLE CONNECTION TO EQUIPMENT.

NOTE: VERIFY LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.

LIGHTING (SEE LUMINAIRE SCHEDULE)

CRITICAL LIGHTING.

RECESSED LUMINAIRE

RECESSED WALL WASHER

AS SHOWN. CRITICAL LIGHTING.

CEILING-SURFACE/PENDANT

AS SHOWN.

EGRESS LIGHTING.

EGRESS LIGHTING.

LENGTHS AS SHOWN.

CEILING FAN

WALL

AS SHOWN. CRITICAL LIGHTING.

SEE LUMINAIRE SCHEDULE

EMERGENCY EGRESS LIGHTING.

SEE LUMINAIRE SCHEDULE

EMERGENCY EGRESS LIGHT

POLE-ARM MOUNTED AREA LIGHT

POLE-TOP MOUNTED AREA LIGHT

WALL MOUNTED FLOOD OR AREA LIGHT

SINGLE POLE SWITCH, 20A, 125/277V

THREE WAY SWITCH, 20A, 125/277V.

FOUR WAY SWITCH, 20A, 125/277V.

DOUBLE POLE SWITCH, 20A, 125/277V.

TIME SWITCH, 1-POLE, 20A, 125/277V.

MOMENTARY CONTACT SWITCH, 1-POLE, 20A, 125/277V

PILOT LIGHT SWITCH (LIGHT ON WHEN IN 'ON' POSITION)

KEY OPERATED SWITCH, 1-POLE, 20A, 125/277V

LOW VOLTAGE SWITCH - TWO BUTTON "ON/OFF"

DIMMER SWITCH, ON/OFF AND 0-10V DIMMING

SUBSCRIPT 'D' INDICATES DIMMING.

SUBSCRIPT 'D' INDICATES DIMMING.

DAYLIGHT SENSOR, CEILING MTD

LIGHTING CONTROL MODULE.

RECEPTACLE CONTROL MODULE.

INTERNATIONAL EXISTING BUILDING CODE - 2021

INTERNATIONAL PLUMBING CODE - 2021

INTERNATIONAL MECHANICAL CODE - 2021

NATIONAL ELECTRICAL CODE (NEPA 70) - 2020

ICC/NSSA-500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS - 2020

ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010

NATIONAL FIRE ALLARM AND SIGNALING CODE (NFPA 72) - 2019

ANSI/ASHRAE/IES STANDARD 90.1 ENERGY STANDARD - 2013

INTERNATIONAL FUEL GAS CODE - 2021

INTERNATIONAL FIRE CODE - 2021

EXCEPTION FOR THIS PROJECT.

APPLICABLE BUILDING CODE:

PHOTO-ELECTRIC / PHOTOCELL SWITCH

MOMENTARY PUSHBUTTON, 2-HOUR TIMED OVERRIDE

VACANCY SENSOR, WALL MTD (MANUAL ON / AUTO OFF),

OCCUPANCY SENSOR, WALL MTD (AUTO ON / AUTO OFF),

VACANCY SENSOR, CEILING MTD (MANUAL ON / AUTO OFF)

OCCUPANCY SENSOR, CEILING MTD (AUTO ON / AUTO OFF)

LIGHTING CONTROL MODULE - EMERGENCY BYPASS, UL 924 LISTED.

AUTOMATIC RECEPTACLE CONTROLS IN ASHRAE 90.1-2013 SECTION 8.4.2 AND ENERGY

MANAGEMENT METERING IN ASHRAE 90.1-2013 SECTION 8.4.3 HAS BEEN TAKEN AS AN

LIGHTING CONTROL PANEL, SURFACE MOUNTED / FLUSH MOUNTED AS

LIGHTED TOGGLE (LIGHT ON WHEN SWITCH IS 'OFF' POSITION)

LOW VOLTAGE DIMMING SWITCH - "ON/OFF/RAISE-LOWER"

MOTOR RATED SWITCH, 20A RATED UNLESS OTHERWISE NOTED.

NUMERIC SUBSCRIPT INDICATES # OF POLES. 125/250/277/600V RATED

NOTED, NUMERIC SUBSCRIPT INDICATES # OF POLES. 125/250/277/600V

MANUAL MOTOR STARTER SWITCH, 20A RATED UNLESS OTHERWISE

LIGHTING - EXTERIOR

AS SCHEDULED

RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN

RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN.

RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN.

RECESSED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

RECESSED WALL WASHER. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

SHOWN. CONNECTED TO LIFE SAFETY EMERGENCY POWER SYSTEM.

SURFACE OR PENDANT MOUNTED LUMINAIRE. CRITICAL LIGHTING.

SURFACE MOUNTED WALL WASHING LUMINAIRE. CRITICAL LIGHTING.

AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

TRACK LIGHT WITH TRACK LENGTH AS NOTED OR SCHEDULED

CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE

WALL MOUNTED SCONCE LUMINAIRE AS SCHEDULED

WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE

CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE

GROUND MOUNTED SPOT, FLOOD OR WELL LIGHT

SURFACE MOUNTED WALL WASHING LUMINAIRE. LIFE SAFETY EMERGENCY

SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS

EXIT SIGN - CEILING MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN.

EXIT SIGN - CEILING MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN.

WALL MOUNTED SCONCE LUMINAIRE. CRITICAL LIGHTING. AS SCHEDULED

WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE - CRITICAL LIGHTING.

WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE - LIFE SAFETY

EXIT SIGN - BACK MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN.

EXIT SIGN - END MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN.

WALL MOUNTED SCONCE LUMINAIRE LIFE SAFETY EMERGENCY EGRESS LIGHTING.

EXIT SIGN - BACK MOUNTED WITH EMERGENCY EGRESS LIGHT, SINGLE FACE WITH

SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS

SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS

EXIT SIGN - CEILING MOUNTED WITH EMERGENCY EGRESS LIGHT, SINGLE FACE WITH

SURFACE OR PENDANT MOUNTED LUMINAIRE. LIFE SAFETY EMERGENCY

SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS

SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS

SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS

LIFE SAFETY EMERGENCY EGRESS LIGHTING.

RECESSED LUMINAIRE. CRITICAL LIGHTING.

RECESSED WALL WASHER. CRITICAL LIGHTING.

SURFACE OR PENDANT MOUNTED LUMINAIRE

SURFACE MOUNTED WALL WASHING LUMINAIRE

CEILING-RECESSED

ELECTRICAL NOTES THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL

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CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE AL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO

THE ARCHITECT FOR RESOLUTION.

ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.

ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED. ALL PANELBOARDS ARE 3Ø 4W UNLESS OTHERWISE NOTED.

ALL BRANCH CIRCUIT CONDUIT SHALL BE 3/4" CONDUIT MINIMUM PER SPECIFICATIONS.

ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED

IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.

ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.

10. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE

ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES

ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.

FINAL EQUIPMENT CONNECTIONS - THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS. CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC., WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.

FURNISH & INSTALL FIRE ALARM SYSTEM WHICH CONFORMS TO ALL NATIONAL. STATE. & LOCAL CODES. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT & WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT & WIRING AS DIRECTED BY SYSTEM SUPPLIER. FIRE ALARM CONTRACTOR TO HOLD A CURRENT LICENSE TO CONDUCT BUSINESS ISSUED BY THE STATES FIRE MARSHAL'S OFFICE.

CONTRACTOR SHALL PROVIDE WARNING LABELS COMPLYING WITH NEC ARTICLE 110.16 ON NEW ELECTRICAL EQUIPMENT OR EXISTING EQUIPMENT THAT IS MODIFIED.

CONDUCTOR SIZES INDICATED ON THE DRAWINGS INCLUDE AMBIENT TEMPERATURE AND VOLTAGE DROP COMPENSATIONS. VOLTAGE DROP COMPENSATION INCLUDED IS UP TO 200' FOR 120/208V CIRCUITS AN 400' FOR 277/480V CIRCUITS. ADJUST CONDUCTOR SIZE TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3% IF INSTALLED FIELD LENGTHS ARE GREATER.

CONTRACTOR SHALL LABEL ALL PANELS WITH AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC.

CONTRACTOR SHALL LABEL ELECTRICAL PANELBOARDS TO INDICATE THE DEVICE OR EQUIPMENT WHERE FEEDER ORIGINATES IN ACCORDANCE WITH NEC 408.4(B).

ALL BREAKERS IN SWITCHBOARD AND PANELBOARDS SHALL BE FULLY RATED. SERIES RATING IS NOT ALLOWED, UNLESS SPECIFICALLY NOTED.

FOR ALL CONDUITS PASSING THROUGH RATED WALLS: PROVIDE FIRESTOPPING FOR RACEWAYS PENETRATING THROUGH RATED WALLS IN ACCORDANCE WITH NEC 300.21. PROVIDE ACCORDINGLY TO MAINTAIN FLOOR AND/OR WALL FIRE ASSEMBLY DESIGN AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND AS REQUIRED.

PROVIDE THE SERVICES OF A THIRD PARTY CONTRACTOR TO CONDUCT A RADIO SIGNAL STRENGTH TEST WITHIN THE BUILDING TO DETERMINE ID A TWO WAY RADIO SIGNAL ENHANCEMENT SYSTEM IS REQUIRED IN ARCHITECT AND AHJ SO THAT BUILDING ELEMENTS THAT MIGHT AFFECT THE FINAL SIGNAL STRENGTH ARE

IF THE TEST RESULTS DO NOT MEET THE REQUIREMENTS OF NFPA 1:11:10. NFPA 1221, AND/OR THE AHJ THEN PROVIDE A COMPLETE, APPROVED TWO WAY RADIO SIGNAL ENHANCEMENT SYSTEM WITHIN THE FACILITY TO MEET THE COVERAGE AS DEFINED BY NFPA 1221-9.6:

PROVIDE THE FOLLOWING COVERAGE PER NFPA 1221-9.6: NFPA 1221-9.6.7.1 : RADIO COVERAGE: RADIO COVERAGE SHALL BE PROVIDED THROUGHOUT THE BUILDING AS A PERCENTAGE OF FLOOR AREA AS SPECIFIED IN SECTION BELOW THROUGH SECTION ON AMPLIFICATION COMPONENTS.

NFPA 1221-9.6.8: SIGNAL STRENGTH-9.6.8.1 INBOUND: A MINIMUM INBOUND SIGNAL STRENGTH SUFFICIENT TO PROVIDE USABLE VOICE COMMUNICATIONS, AS SPECIFIED BY AHJ, SHALL BE PROVIDED THROUGHOUT THE COVERAGE AREA. THE INBOUND SIGNAL LEVEL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.0 FOR EITHER ANALOG OR DIGITAL SIGNALS.

NFPA 1221-9.6.8.2: OUTBOUND: A MINIMUM OUTBOUND STENGTH SUFFICIENT TO PROVIDE USABLE VOICE COMMUNICATIONS, AS SPECIFIED BY AHJ, SHALL BE PROVIDED THEOUGHOUT THE COVERAGE AREA. THE OUTBOUND SIGNAL LEVEL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.0 FOR EITHER ANALOG OR DIGITAL SIGNALS.

THE CONTRACTOR SAHLL INCLUDE IN THEIR BID PRICE AN ALLOWANCE OF \$75,000 FOR THE SYSTEM DESIGN, PURCHASE, AND INSTALLATION OF ALL REQUIRED MATERIALS AND EQUIPMENT FOR THE SYSTEM. AN ALLOWANCE OF INCLUSION IN THE CONTRACT SUM IS SPECIFIED IN DIVISION ONE SUPPLEMENT, SECTION 01800 FOR THE COST OF THE SYSTEM. REFER TO THE DRAWINGS FOR GENERAL SYSTEM REQUIREMENTS AND PROVISIONS. SUPPLEMENTARY INSTRUCTIONS WILL BE ISSUED BY THE PROFESSIONAL TO PROVIDE A COMPLIANT SYSTEM AFTER REVIEW OF THE TEST RESULTS AS NECESSARY.

ABBREVIATIONS

AMPERES

AMBIENT AIR COOLED
AUTHORITY HAVING JURISDICTION
AMPERES INTERUPTING CAPACITY
ABOVE FINISHED FLOOR
ALUMINUM
AUTOMATIC TRANSFER SWITCH
AMERICAN WIRE GAUGE
CONDUIT RACEWAY
CONTRACTOR FURNISHED, CONTRACTOR
INSTALLED
CONTRACTOR FURNISHED, OWNER
INSTALLED
CIRCUITS
CLOSED TRANSITION TRANSFER SWITCH
COPPER
DIAMETER
ELECTRICAL CONTRACTOR
EXTERNAL GROUND BUS
EMERGENCY
EXPLOSION PROOF
ENERGY REDUCING MAINTENANCE SWITCH
AS REQUIRED BY NEC 240.87
ELECTRIC WATER COOLER
FORCED AIR COOLED

FLEXIBLE METAL CONDUIT FMC GROUND GROUND FAULT PROTECTION FOR **EQUIPMENT** GFI OR GFCI GROUND FAULT PROTECTION FOR MOUNTING HEIGHT TO CENTERLINE HIGH INTENSITY DISCHARGE HORSE POWER ISOLATED GROUND THOUSAND CIRCULAR MILS KILOVOLT-AMPERES KII OWATT LIQUID TIGHT FLEXIBLE METAL CONDUIT BREAKER WITH LONG TIME, SHORT TIME AND INSTANTANIOUS ADJUSTMENTS AND **GROUND FAULT INDICATION ONLY** BREAKER WITH LONG TIME, SHORT TIME

INTANTANIOUS, AND GROUND FAULT

DRAWING CONVENTIONS

— O NEW WORK --- ()^{EX} EXISTING TO REMAIN → — ()^{XR} EXISTING TO REMOVE

MAIN BREAKER MAIN LUGS ONLY MEDIUM VOLTAGE NEUTRAL NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION ASSOCIATION

NOT IN CONTRACT NIGHT LIGHT ON CENTER OWNER FURNISHED, CONTRACTOR INSTALLED

OFOI OWNER FURNISHED, OWNER INSTALLED POLES

POWER FACTOR PHASES POLYVINYL CHLORIDE RACEWAY REDUCED ENERGY LET THROUGH AS REQUIRED BY NEC 240.87 RIGID GALVANIZED STEEL SURGE PROTECTIVE DEVICE TELEPHONE BACKBOARD TBB

TELECOMMUNICATIONS MAIN **GROUND BUS** TAMPER RESISTAN TRANSFORMER **TYPICAL** UON UNLESS OTHERWISE NOTED VOLTS

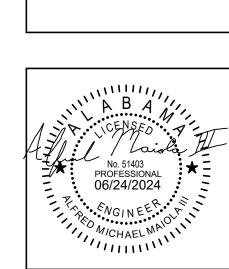
WEATHERPROOF, NEMA 3R. EXISTING TO REMAIN EXISTING, REMOVE EXISTING, REMOVE & RELOCATE EXISTING, RELOCATED

BLANK COVER

EXISTING, REMOVE DEVICE AND INSTALL EXISTING, REMOVE AND REPLACE W/ NEW

ADJUSTMENTS

PROJ. MGR.: -DRAWN: DATE: -REVISIONS



SHEET TITLE: ELECTRICAL LEGEND AND NOTES

AMM 06/24/24

NOTE:

NEUTRAL

NEUTRAL

GROUND

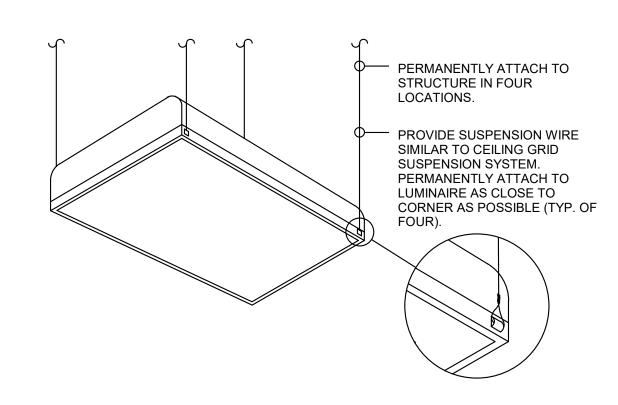
GREEN

NOT TO SCALE

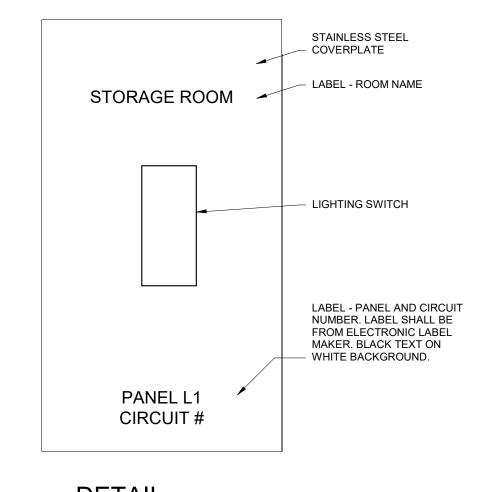
DETAIL - WALL SWITCH SENSOR

COORDINATE ALL SWITCH REQUIREMENTS WITH CONTROLS MANUFACTURER TO COMPLY WITH ALL CONTROL REQUIREMENTS OF EACH INDIVIDUAL SPACE. SEE LIGHTING CONTROL SCHEDULES AND SWITCH LEGEND. WHERE A MANUFACTURER REQUIRES A TWO GANG BOX OR A SINGLE GANG BOX, PROVIDE ALL RESULTING COSTS IN ADDITIONAL ROUGH-IN REQUIREMENTS.

MULTIZONE SWITCH AND OVERRIDE SWITCH SCHEMATIC



DETAIL - TYPICAL MOUNTING TROFFER NOT TO SCALE

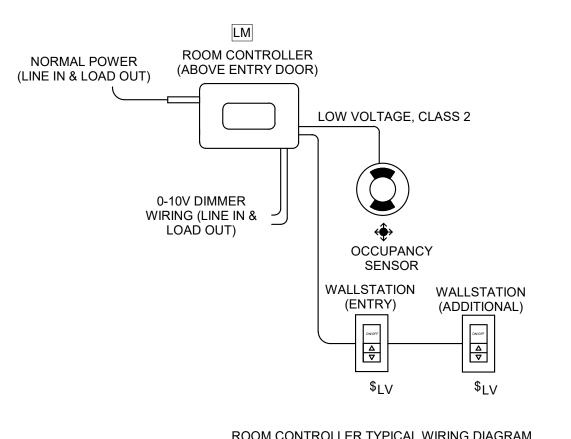


LIGHTING SWITCH FACEPLATE

NO SCALE

X1 LITHONIA

HE WILLIAMS **EXITRONIX**



NOTES:

1. DETAIL IS DIAGRAMMATIC. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER AND PROVIDE ALL REQUIRED COMPONENTS FOR A COMPLETE OPERATIONAL SYSTEM THAT MEETS THE INTENT OF THE CONTROL SCHEME. WHERE EMERENCY AND NORMAL ROOM CONTROLLERS ARE SHOWN IN THE SAME ROOM AND/OR CONTROLLING THE SAME ZONES. COORDIANTE WITH LIGHTING CONTROLS MANUFACTURER TO PROVIDE A LIGHTING CONTROLS SYSTEM WHICH MEETS THE INTENT OF THE CONTROL SCHEME. IT IS PERMITTED TO HAVE ONE (1) ROOM CONTROLLER AS A SYSTEM OR MULTIPLE ROOM CONTROLLERS WORKING AS A SYSTEM WHICH MEETS THE INTENT

2. ALL LOW VOLTAGE WIRES AND ABOVE CEILING CONTROLLERS SHALL BE PLENUM RATED. 3. ALL LOW VOLTAGE WIRES SHALL BE INSTALLED ON J-HOOKS. PROVIDE QUANTITY AS REQUIRED TO SUPPORT EVERY 5'-0".

LUMINAIRE SCHEDULE MARK MANUFACTURER MODEL VOLT LAMP WATT | COLOR TEMP COMMENTS / OPTIONS DESCRIPTION 3500 K 2x4 LED RECESSED TROFFER, FROSTED ACRYLIC CURVED LENS. 24CZ2-45-UNV-L835-CD-1 A METALUX 277 LED 4500 LM 36 W 2BLT4-45L-ADP-GZ10-LP835 LITHONIA HE WILLIAMS LT24-L52-835-AF-L45-DIM-U AE METALUX 24CZ2-45-UNV-L835-CD-1-EL14W 3500 K 2x4 LED RECESSED TROFFER, FROSTED ACRYLIC CURVED LENS. EMERGENCY. PROVIDE WITH EMERGENCY BATTERY PACK. 2BLT4-45L-ADP-GZ10-LP835-EL14L LITHONIA HE WILLIAMS LT24-L52-835-AF-L45-DIM-U-EM/12W FCW3800-UNV-35-CRI85-20L-BKE C FC LIGHTING 277 LED 4000 LM 20 W 3500 K SURFACE MOUNT ROUND EXTERIOR CANOPY LED LUMINAIRE. DIE-CAST ALUMINUM PROVIDE UNISTRUT MOUNTING SO THAT THERE IS NO PENETRATIONS ON THE ROOF HOUSING. IP66 RATED. FLUSH LENS. MEDIUM LIGHT THROW DISTRIBUTION. BROWNLEE LIGHTING | 7200-XX-L32-35K SMD14R-20-9S-WH-E-SMD14RTRXXX HALO F METALUX 4SNLED-LD5-48SL-UNV-L835-CD-1-U-AIRCRAFT CABLE 3500 K AIRCRAFT CABLE SUSPENDED 48" LED STRIP LIGHT. PROVIDE AIRCRAFT CABLE AND ALL REQUIRED MOUNTING HARDWARE. AIRCRAFT CABLE ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-WH-ZACVH M100 SHALL BE FIELD ADJUSTABLE. LITHONIA **HE WILLIAMS** 75R-4-L50-8-35K-ACF/D48-DIM-UNV FE METALUX 4SNLED-LD5-48SL-UNV-EL14W-L835-CD-1-U-AIRCRAFT CABLE 3500 K AIRCRAFT CABLE SUSPENDED 48" LED STRIP LIGHT. PROVIDE AIRCRAFT CABLE AND ALL REQUIRED MOUNTING HARDWARE. PROVIDE BATTERY 277 LED 5000 LM 50 W ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-E7W-WH-ZACVH M100 BACKUP. AIRCRAFT CABLE SHALL BE FIELD ADJUSTABLE. LITHONIA HE WILLIAMS 75R-4-L50-8-35K-EM10WLP-ACF/D48-DIM-UNV SURFACE MOUNT ABOVE DOOR AND PROVIDE ALL MOUNTING ACCESSORIES, PROVIDE FWE METALUX 4SNLED-LD5-48SL-UNV-EL14W-L835-CD-1-U 3500 K WALL MOUNTED 48" LED STRIP LIGHT 277 LED 4800 LM 35 W ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-E7W-WH EMERGENCY BATTERY BACKUP. LITHONIA HE WILLIAMS 75R-4-L50-8-35K-EM10WLP-DIM-UNV G LITHONIA IBG 24000LM SEF ACL GND MVOLT GZ10 35K 80CRI WGIBG24 IBAC120M100 277 LED 24000 LM 144 W 3500 K 2X4 LED HIGH BAY FIXTURE MOUNTED FROM THE STRUCTURE VIA AIRCRAFT CABLES. PROVIDE WIRE GUARD AND AIRCRAFT CABLES. MOUNT SO THAT FIXTURES ARE 20'-0" AFF. GH-4-L240/835-FA-GC2-Y18-10-WG11-DIM-UNV PROVIDE UNISTRUT AS REQUIRED FOR MOUNTING. HE WILLIAMS OHBL-24SE-W-UNV-L835-CD-U/OHB-WG162-Y-TOGGLE10-U METALUX GE LITHONIA IBG 24000LM SEF ACL GND MVOLT GZ10 35K 80CRI IE20WCPHE WGIBG24 IBAC120M100 | 277 | LED 24000 LM | 144 W PROVIDE EMERGENCY BATTERY, WIRE GUARD, AND AIRCRAFT CABLES. MOUNT SO THAT 3500 K 2X4 LED HIGH BAY FIXTURE MOUNTED FROM THE STRUCTURE VIA AIRCRAFT CABLES. HE WILLIAMS GH-4-L240/835-FA-EM20W-GC2-Y18-10-WG11-DIM-UNV FIXTURES ARE 20'-0" AFF. PROVIDE UNISTRUT AS REQUIRED FOR MOUNTING. OHBL-24SE-W-UNV-L835-EL20W-CD-U/OHB-WG162-Y-TOGGLE10-U METALUX DSX0 LED P4 35K 80CRI T4M MVOLT SPA HS DBLXD / RTS-25-5-9B-DM49AS-DDBXD 277 LED 11000 LM 556 W LED AREA LIGHT FOUR HEAD TYPE 4 THROW ON 25' STRAIGHT ROUND TAPERED POLE. INSTALL POLE PER DETAIL. CONFIRM COLOR FINISH WITH ARCHITECT TO MATCH EXISTING SL-4 LITHONIA OPF-S-A03-P05-830-T4M-BLC-AR1-277-BK / 06TRS-11-D4-XX SITE LIGHTING. PRIOR TO ORDERING, CONFIRM EXISTING SITE LIGHTING POLE HEIGHT SIGNIFY BLACK FINISH. MCGRAW-ED/HAPCO GALN-SA2B-735-U-T4-XX-HSS / RTS25B61-4-XX MATCHES THE 25' POLE (27'-5" TOTAL WITH BASE). WHERE THERE IS A DISCREPANCY, NOTIFY ARCHITECT AND AWAIT SUPPLEMENTAL INSTRUCTION. WEDGE2 LED P2 35K 80CRI VF MVOLT DBLXD W1 LITHONIA 277 LED 2000 LM 15 W WALL MOUNTED LED LUMINAIRE, DIE CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION, COORDINATE MOUNTING HEIGHT WITH ARCHITECT. GWM-A06-840-T4M-277-BK SIGNIFY TWA-T4-16L-35-35K8-UNV-WM-XX **NLS LIGHTING** WEDGE2 LED P2 35K 80CRI VF MVOLT E20WC DBLXD WALL MOUNTED LED LUMINAIRE, DIE CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION, PROVIDE EMERGENCY BATTERY PACK. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. WE LITHONIA 277 | LED 2000 LM | 15 W GWM-A06-840-T4M-277-FC-BK SIGNIFY BLACK FINISH. EMERGENCY. NLS LIGHTING TWA-T4-16L-35-35K8-UNV-WM-EM8-XX 277 LED 1100 LM 5 W

REMOVABLE DIRECTIONAL ARROWS AND REMOVABLE 2ND BACK EXIT FACE.

LUMINAIRE SCHEDULE NOTES:

PIECES AS REQUIRED FOR A COMPLETE INSTALLATION.

LHQM-LED-R-HO

QCSS-R-WH

EXIT/EM/LED-R-WHT-HL-D

1. MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED. ALL SUBSTITUTION REQUEST SHALL BE SUBMITTED FOR REVIEW PRIOR TO BID PER SPECIFICATIONS.

2. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

3. PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIED, MOUNTING HARDWARE, ETC. AS REQUIRED FOR COMPLETE INSTALLATION. 4. EXIT LIGHTS SHALL BE PROVIDED WITH COLOR OF LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND REQUIRED.

5. PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRIC CODE. 6. FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE AND END

7. FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGERS AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CONDUIT, ETC. MAINTAIN UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT THE MECHANICAL AREA.

8. PENDANT MOUNTED LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRIP HARDWARE. CABLE SIZE SHALL BE SELECTED MY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRES SPECIFIED.

9. EMERGENCY BATTERY PACKS FOR LED LUMINAIRES SHALL OPERATE FOR 90 MINUTES MINIMUM.

10. LED FIXTURES: TO INSURE A FIXTURE WILL PERFORM "AS ADVERTISED" ON A CUT SHEET. THE PUBLISHED SPECIFICATION SHALL BE SUPPORTED BY LM-79 TEST RESULTS. LED FIXTURES WHICH ARE BUILT USING LED'S SHALL HAVE SUCCESSFULLY PASSED LM-80. LED'S SHALL YIELD A LM-80 RESULT OF A MINIMUM OF 70% OF THE ORIGINAL LIGHT OUTPUT OF THE LED STILL BEING DELIVERED AFTER 50,000 HOURS OF OPERATION. THE POWER SUPPLY UNIT (DRIVER) SHALL HAVE 150,000 HOURS MTBF (MEAN TIME BETWEEN FAILURES). AN INTEGRATED BATTERY BACKUP SOLUTION FOR THE LED FIXTURE IS REQUIRED. REPLACEABLE LED BOARDS TO ALLOW FIXTURE UPGRADE.

11. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPATIBLE INSTALLATION.

12. PROVIDE FUSES FOR UNGROUNDED CONDUCTORS SUPPLYING LED DRIVERS, PROVIDE FUSED SIZED FOR RATING OF LED DRIVER.

13. POLE MANUFACTURER SHALL COORDINATE WITH LUMINAIRE MANUFACTURER TO PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FIXTURE. PROVIDE APPROPRIATE MOUNTING HARDWARE. ANCHOR BOLTS. BOLT/BASEPLATE COVERS AND GROUNDING LUG. MANUFACTURER SHALL FURNISH AN ANCHOR BOLT TEMPLATE TO ENSURE PROPER MOUNTING AND LUMINAIRE ORIENTATION FOR CORRECT LIGHT DISTRIBUTION.

			LCP-1 SCHEDULE	
Relay	Panel	Circuit Number	Location Description	LOCAL CONTROL
2	LP-2	29	CANOPY	EXTERIOR OVERRIDE SWITCH
3	LP-2	38	NORTH EXTERIOR WALL	EXTERIOR OVERRIDE SWITCH
4	LP-2	37	NORTH EXTERIOR WALL	EXTERIOR OVERRIDE SWITCH

		LC	P-G SCHEDULE	
Relay	Panel	Circuit Number	Location Description	LOCAL CONTROL
1	MP-G	2	GYM LIGHTING	2 HOUR TIMED OVERRIDE SIWTCH
2	MP-G	7	GYM EXTERIOR WALLS	EXTERIOR OVERRIDE SWITCH

LIGHTNING CONTROL PANEL NOTES FOR EACH LCP:

WALL/CEILING MOUNTED COMBINATION EXIT SIGN AND EMERGENCY EGRESS LIGHT. WALL/CEILING MOUNT AS SHOWN ON FLOOR PLANS. WHERE SHOWN WALL MOUNTED. SEE

EGRESS LIGHTING HEADS SHALL BE HIGH OUTPUT TYPE AND INTEGRAL TO THE FIXTURE. STANDARD ELEVATIONS FOR HEIGHTS. PROVIDE BATTERY BACKUP AND INTEGRAL EGRESS

A. LIGHTING CONTROL PANEL SHALL HAVE A MINUMUM 7-DAY CLOCK.

B. LIGHTING CONTROL PANEL SHALL BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER

C. LIGHTING CONTROL PANEL SHALL INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR AT LEAST 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.

D. EACH LIGHTING CONTROL PANEL SHALL HAVE A PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR AT LEAST 10 HOURS, IF PROGRAM IS INTERRUPTED.

E. PROVIDE AT A MINIMUM FOUR (4) SPARE RELAYS IN EACH LIGHTING CONTROL PANEL. F. OVERRIDE SWITCHES SHALL TURN THE RESPECTIVE ZONE "ON" DURING OFF HOURS FOR 2 HOURS

G. ALL OVERRIDE SWITCHES SHALL BE LABELED WITH THE "DESCRIPTION" AREA".

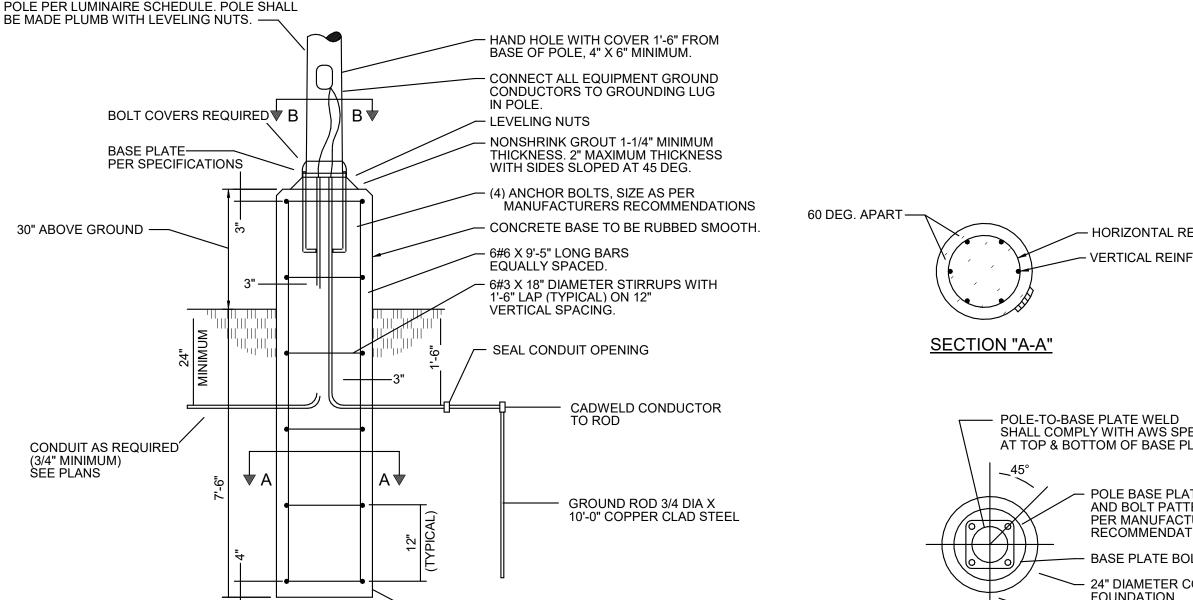
H. PROVIDE DRY CONTACTS FOR A RELAY TO CONNECT FIRE ALARM WIRING INTERFACE. ALL

AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT.

I. PROVIDE PHOTOCELL/PHOTOSENSOR CONNECTED TO THE LCP.

J. CONFIRM ON/OFF SCHEDULING WITH THE OWNER. LIGHTING CONTROL PANEL SHALL BE PROGRAMMED FOR THE OWNER.

K. LIGHTING CONTROL PANEL VENDOR SHALL PROVIDE SHOP DRAWINGS OF ALL LOCATIONS OF DEVICES AND EQUIPMENT ON THE FLOOR PLAN FOR SUBMITTAL REVIEW AND FOR INSTALLATION PURPOSE. LIGHTING CONTROL PANEL VENDOR SHALL PROVIDE DETAILED WIRING DIAGRAMS FOR ALL DEVICES AND EQUIPMENT WITHIN LCP SYSTEM.



- VERTICAL & HORIZONTAL BARS SHALL BE

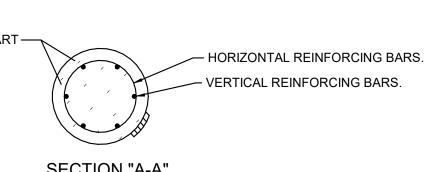
NOTES: 1. 3500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 RE-BARS. 2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE. 3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGAR

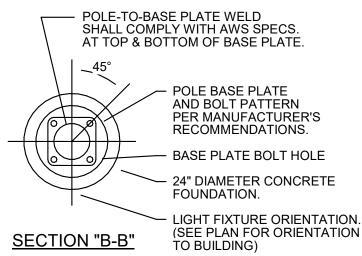
24" DIA.

IN UNDISTURBED OR PROPERLY COMPACTED FILL. 4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE 3000 PSF. NOTIFY ENGINEER IF BEARING PRESSURE 5. AIR ENTRAINMENT: 4 TO 6%.

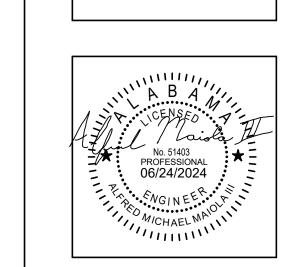
DETAIL - POLE BASE LIGHTING STANDARD FOR POLE MOUNTED FIXTURES

NOT TO SCALE





DETAIL - SECTION THRU POLE BASE NOT TO SCALE



P C

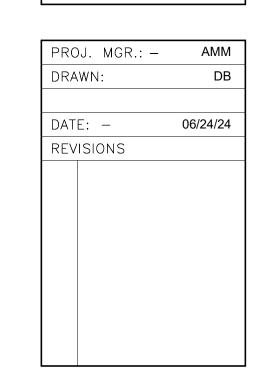
Dewberry

2 Riverchase Office Plaza Suite 205 Hoover, AL 35244 (205) 988-2069

www.dewberrv.com Project Number :

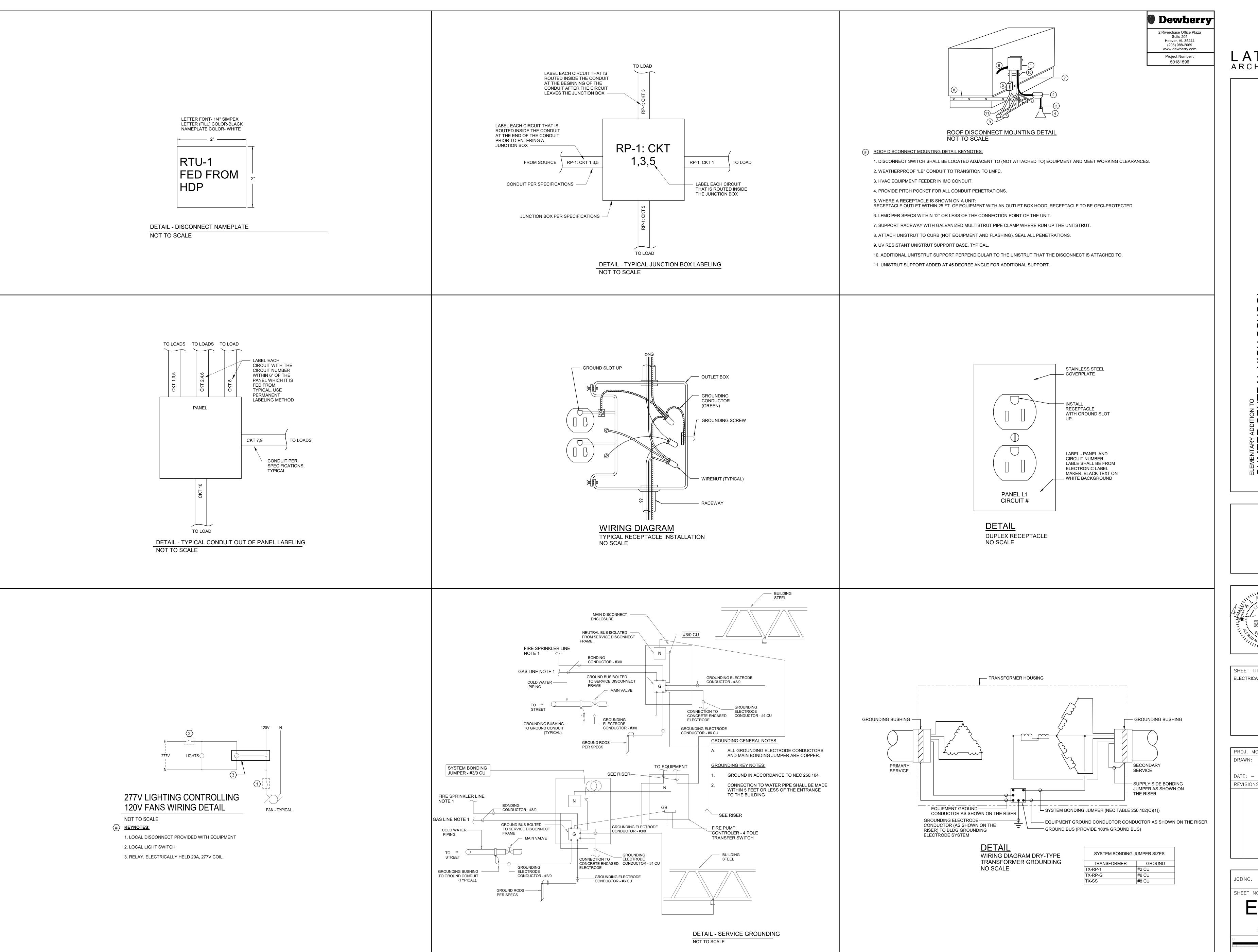
50181596

SHEET TITLE: **ELECTRICAL LUMINAIRE** SCHEDULE AND DETAILS



JOBNO. 24-38 SHEET NO:

2 OF 20



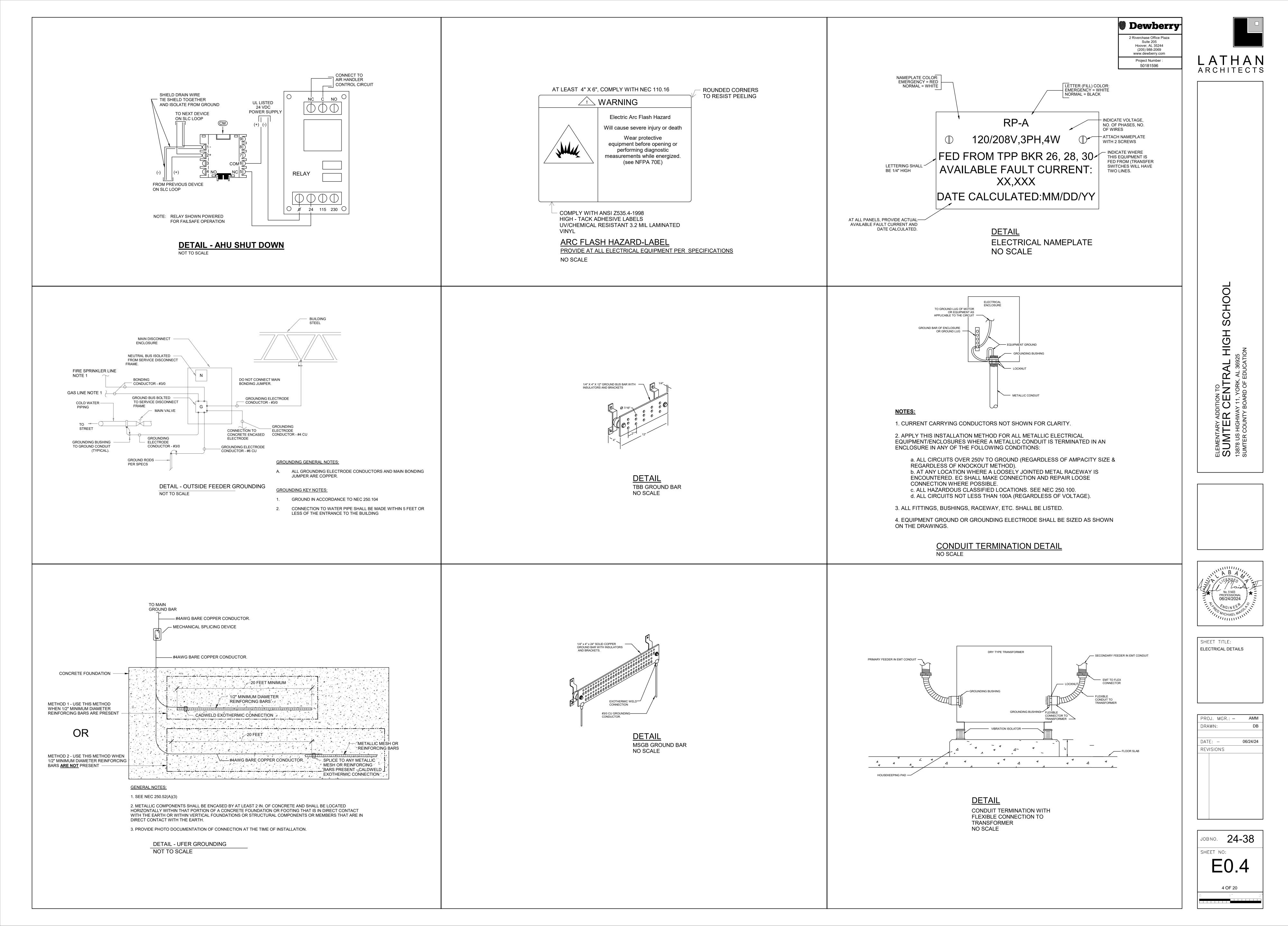
SUMTER COUNTY

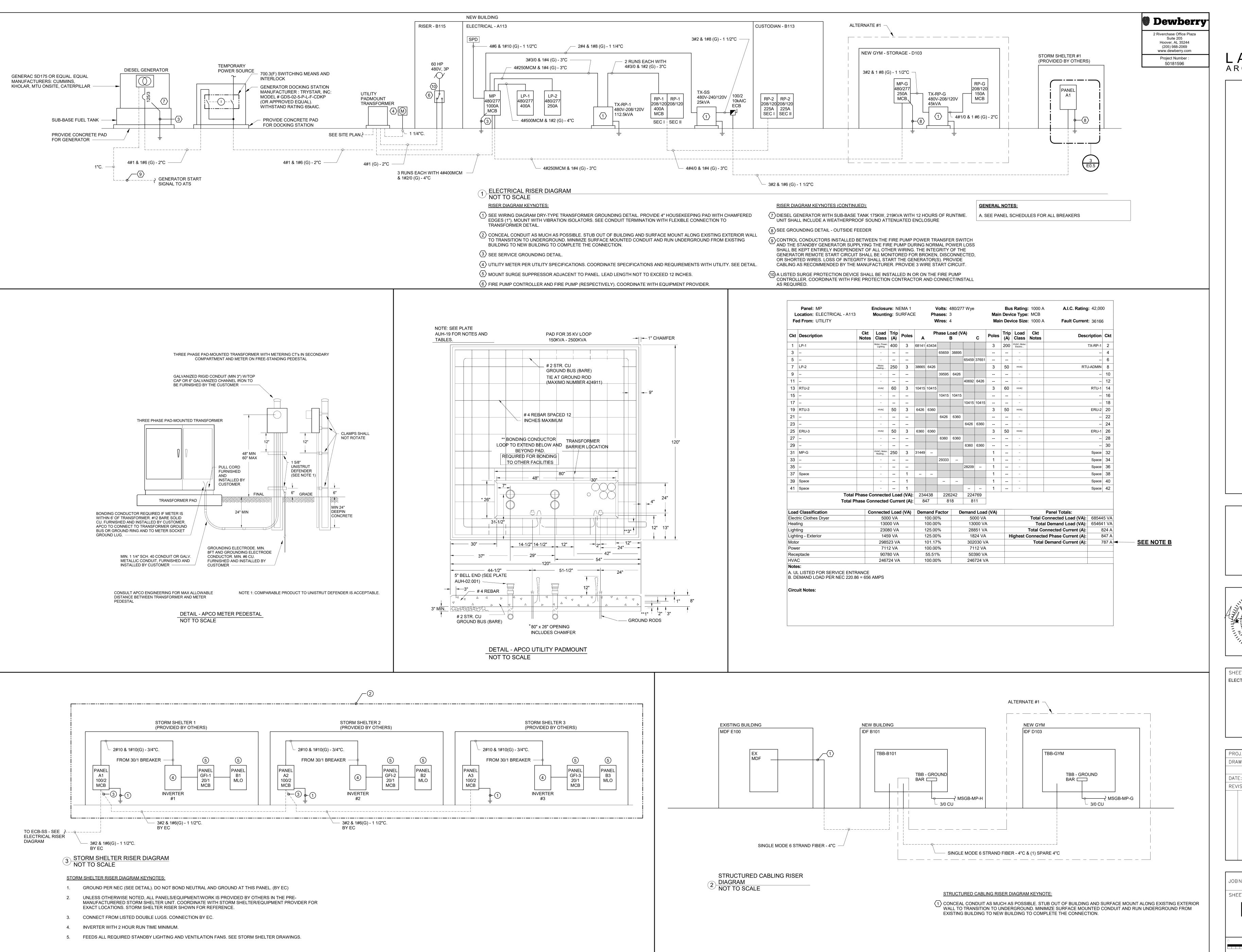


SHEET TITLE: ELECTRICAL DETAILS

PROJ. MGR.: -	AMM
DRAWN:	DB
DATE: -	06/24/24
REVISIONS	

SHEET NO: 3 OF 20





 $\overline{\mathbb{P}}$

SHEET TITLE: **ELECTRICAL RISER DIAGRAM**

> AMM PROJ. MGR.: -DRAWN: 06/24/24 DATE: -REVISIONS

SHEET NO:

5 OF 20

	Panel: MP-G ocation: ELECT.D ed From: MP		Enclosu Mountii			Ξ	Ph	/olts: ases: /ires:	_	7 Wye			Devi	Rating ce Type ice Size	: MCB	A.I.C. Rating: 25,000 Fault Current: 13296	
Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	Pl		oad (V B	'A)	С	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	TX-RP-HG		HVAC; Motor; Heating;	100	3	6032	2888					1	20	Lighting		GYM LTG	2
3								5862	908			1	20	Lighting		GYM LTG - MISC	4
5										5606	22603	3	125	HVAC		AHU-GYM	6
7	LGT - EXTERIOR WALLS		Lighting - Exterior	20	1	60	22603							-			8
9	Spare		-	20	1			0	22603					-			10
11	Spare		-	20	1					0		1		-		Space	12
13	Spare		-	20	1	0						1		-		Space	14
15	Spare		-	20	1			0				1		-		Space	16
17	Spare		-	20	1					0		1		-		Space	18
19	Spare			20	1	0						1		-		Space	20
21	Spare			20	1			0				1		-		Space	22
23	Spare			20	1					0		1		-		Space	24
25	Spare			20	1	0						1		-		Space	26
27	Spare		-	20	1			0				1		-		Space	28
29	Spare			20	1					0		1		-		Space	30
31	Spare			20	1	0						1		-		Space	32
33	Spare			20	1			0				1		-		Space	34
35	Spare			20	1					0		1		-		Space	36
37	Spare			20	1	0						1		-		Space	38
39	Spare			20	1			0				1				Space	40
41	Spare		-	20	1					0		1		-		Space	42
		tal Phase Co					449		333		209		•	1	· '	-	
	Tota	I Phase Co	nnected	Curr	ent (A):	1	14	10	07	10	02						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	4500 VA	100.00%	4500 VA	Total Connected Load (VA):	88983
Lighting	4951 VA	125.00%	6189 VA	Total Demand Load (VA):	90378
Lighting - Exterior	60 VA	125.00%	75 VA	Total Connected Current (A):	107
Motor	696 VA	125.00%	870 VA	Highest Connected Phase Current (A):	114
Power	3712 VA	100.00%	3712 VA	Total Demand Current (A):	109
Receptacle	5560 VA	100.00%	5560 VA		
HVAC	69640 VA	100.00%	69640 VA		
Notes:	'	1			

Circuit Notes:

Circuit Notes:

1. PROVIDE GFI BREAKER 2. RED LOCK-ON BREAKER

	Panel: RP-G ocation: STORAGE - D103 d From: TX-RP-G		Enclosu Mountir	_	EMA 1 URFACE	Ξ	Pha	/olts: ases: { /ires: 4	3	8 Wye			Devi	ce Type	: 225 A : MCB :: 150 A	A.I.C. Rating: 10,0 Fault Current: 2461	
Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	Α	PI	hase L	oad (\ B	/A)	С	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	LCP-G		Power	20	1	200	540					1	20	Receptacle		REC - OFFICE D10	1 2
3	REC - GYM D100		Receptacle	20	1			360	180			1	20	Receptacle		REC - RISER D102	2 4
5	REC - BTHRM D105, D106, & D104		Receptacle	20	1					540	800	1	20	Receptacle	1	REC - EWC GYM D100	6
7	REC - EWC GYM D100	1	Receptacle	20	1	800	1656					1	20	Power		GOAL RAISE/LOWER	8 8
9	GOAL RAISE/LOWER		Power	20	1			1656	696			1	20	Motor		EF-	1 10
11	REC - EXTERIOR		Receptacle	20	1					180	916	2	30	HVAC		OHP-10 HVAC	12
13	Space				1		916									-	- 14
15	Space				1				360			1	20	Receptacle		REC - TBB-C	3 16
17	Space				1						720	1	20	Receptacle		REC - TBB-C	3 18
19	Space				1		540					1	20	Receptacle		REC - ELEC, STOR, CON-PUMP	20
21	Space				1				0			1	20	Power		AUX PWR - BBALL CTL PNI	_ 22
23	Space				1						0	1	20	Power		BBALL CTL PNI	_ 24
25	Space				1		0					1	20	Power		BBALL CTL PNI	_ 26
27	Space				1				360			1	20	Receptacle		REC - GYM D100	28
29	Space				1						200	1	20	Power		NAC	30
31	Space				1		1200					1	20	Lighting		SIGNAGE	32
33	Space		-		1				2250			2	30	Heating		WH-2	2 34
35	Space		-		1						2250					-	- 36
37	Space		-		1		180					1	20	Receptacle	2	REC - CIRC PUMF	38
39	Space		-		1				0			1	20			SPARE	40
41	Space		-		1						0	1	20			SPARE	42
	Total P	hase Co	onnecte	d Loa	d (VA):	60	32	58	62	56	06						
	Total Ph	ase Co	nnected	Curr	ent (A):	5	51	4	.9	4	7						
Load	I Classification	Co	nnecte	d Loa	d (VA)	Den	nand F	actor	D	emano	Load	(AV)				Panel Totals:	
Heat	ing		450	O VA		•	100.00	%		45	00 VA					` ,	99 VA
Light	ing			O VA			125.00				00 VA					, ,	73 VA
Moto				6 VA			125.00				70 VA					onnected Current (A):	49 A
Powe				2 VA			100.00				12 VA		Н	ighest (ed Phase Current (A):	51 A
Rece	ptacle		556	0 VA		•	100.00	%		55	60 VA				Total	Demand Current (A):	50 A

100.00%

1831 VA

1831 VA

	d From: TX-RP-1	Ckt	Load	Trip	D. I.		_	Vires: 4					n Dev Trip	ice Size	: 400 A	Fault Current:		
	Description	Notes	Class	(A)	Poles		A 		B 	•	C 	Poles	(A)	Class	Notes	Descri		
1	OPH-4 HVAC		HVAC	30	2	915	24079		0.4500			3	225	HVAC; Motor; Receptacle;			RP-2	
3			-					915	21590	0.15	10071			-				4
5	OHP-8 HVAC		HVAC	30	2	0.45	0.15			915	19971			-		OUD 0		6
7	CUD 718/40		-			915	915	045	045			2	30	HVAC		OHP-6	HVAC	
9	OHP-7 HVAC		HVAC	30	2			915	915	0.15	540					DE0 105		10
11	PEO IDE DA04		-			700	400			915	540	1	20	Receptacle		REC - IDF		12
13	REC - IDF B101		Receptacle	20	1	720	180	4440	700			1	20	Receptacle		REC - COND. PU		
15	REC - IDF B101		Receptacle	20	1			1440	720	700	700	1	20	Receptacle		REC - IDF		16
17	REC - IDF B101		Receptacle	20	1	400	540			720	720	1	20	Receptacle		REC - IDF		18
19	REC - ELECTRICAL		Receptacle	20	1	180	540	400	700			1	20	Receptacle		REC - CORRIDOR		_
21	REC - COND. PUMP #5		Receptacle	20	1			180	720			1	20	Receptacle		REC - CLASSROOM		
23	REC - CLASSROOM A119		Receptacle	20	1					900	900	1	20	Receptacle		REC - CLASSROOM		
25	REC - CLASSROOM A117		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM		_
27	REC - CLASSROOM A117		Receptacle	20	1			720	720			1	20	Receptacle		REC - CLASSROOM		
29	REC - CLASSROOM A118		Receptacle	20	1					900	900	1	20	Receptacle		REC - CLASSROOM		-
31	REC - CLASSROOM A116		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM		_
33	REC - CLASSROOM A116		Receptacle	20	1			720	720			1	20	Receptacle		REC - CLASSROOM		
35	REC - CLASSROOM A103		Receptacle	20	1					900	900	1	20	Receptacle		REC - CLASSROOM		
37	REC - CLASSROOM A104		Receptacle	20	1	720	900					1	20	Receptacle		REC - CLASSROOM		38
39	REC - CLASSROOM A104		Receptacle	20	1			900	900			1	20	Receptacle		REC - CLASSROOM		40
41	REC - CLASSROOM A101		Receptacle	20	1					900	720	1	20	Receptacle		REC - CLASSROOM	A101	
43	REC - CLASSROOM A102		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM	A102	44
45	REC - CLASSROOM A102		Receptacle	20	1			720	720			1	20	Receptacle		REC - ASST. OFFICE	A112	46
47	REC - MECH A111		Receptacle	20	1					360	720	1	20	Receptacle		REC - A107 LAUNDRY & A10	9 TLT	48
49	REC - LAUNDRY A107	1	Electric Clothes Dryer	30	2	2500	180					1	20	Receptacle	1	REC - LAUNDRY	′ A107	50
51			-					2500	720			1	20	Receptacle		REC - WRKRM A106 & TLT	A108	52
53	REC - WORKROOM A106	1	Receptacle	20	1					800	1260	1	20	Receptacle		REC - TLT A110, A112, 8	A114	54
55	REC - EWC CORRIDOR A100	1	Receptacle	20	1	800	800					1	20	Receptacle	1	REC - EWC CORRIDOR	R A100	56
57	REC - CLASSROOM C108		Receptacle	20	1			720	900			1	20	Receptacle		REC - CLASSROOM	C108	58
59	REC - CLASSROOM C108		Receptacle	20	1					900	360	1	30	Receptacle		DATA RACK RECEPT	ACLE	60
61	REC - MECH POWER		Receptacle	20	1	900	360					1	20	Receptacle		REC - MECH PO	OWER	62
63	REC - MECH POWER		Receptacle	20	1			180	360			1	20	Receptacle		REC - IDF	B101	64
65	FACP	2	Power	20	1					200	2250	2	30	Heating			WH1	66
67	MICROWAVE - WORKROOM	1	Receptacle	20	1	180	2250							-				68
69	SPARE		-	20	1			0				1		-		S	PACE	70
71	SPARE		-	20	1					0		1		-		S	PACE	72
73	SPARE		-	20	1	0						1				S	PACE	74
75	SPARE		-	20	1			0				1		-		S	PACE	76
77	SPARE		-	20	1					0		1		-		S	PACE	78
79	SPARE		-	20	1	0						1		-		S	PACE	80
81	SPARE		-	20	1			0				1		-		S	PACE	82
83	SPARE		-	20	1					0		1		-		S	PACE	84
		Phase Co			` '		434 64		895 26		651 14		•					
oac	I Classification	Co	onnecte	d Loa	d (VA)	Den	nand F	actor	De	eman	d Load	(AV)				Panel Totals:		
Elect	ric Clothes Dryer			00 VA	` ,		100.00	%			00 VA					· /	11997	'9 V
Heat	<u> </u>			00 VA			100.00				00 VA					al Demand Load (VA):	8308	
Moto				80 VA			122.09				80 VA		٠			onnected Current (A):		333
Powe				00 VA			100.00				200 VA		Н	ignest (ed Phase Current (A): Demand Current (A):		364
≺ece -IVA	eptacle C			20 VA 99 VA			55.87°				610 VA 799 VA		+		ıoldi	Demanu Current (A):		231
Note			.07	55 V/1			. 55.50				. 55 V/	-						
	ROVIDE TWO EQUAL SECTION	าพร																

Panel: LP-1

Location: ELECTRICAL - A113

	d From: MP		Mountii	ng: S	URFACI			ases: : /ires: /						ce Type ice Size		Fault Current:	34308	}
Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles		4	I	В	(3	Poles	Trip (A)	Load Class	Ckt Notes	Desci	ription	Ckt
1	HP-1		Motor	25	3	4676	4676					3	25	Motor			HP-2	2
3								4676	4676									4
5										4676	4676							6
7	HP-3		Motor	25	3	4676	4676					3	25	Motor			HP-4	8
9								4676	4676									10
11										4676	4676							12
13	HP-5		Motor	25	3	4676	4676					3	25	Motor			HP-6	14
15								4676	4676									16
17										4676	4676							18
19	HP-7		Motor	25	3	4676	4676					3	25	Motor			HP-8	20
21			-					4676	4676									22
23										4676	4676							24
25	HP-9		Motor	25	3	4676	4676					3	25	Motor			HP-10	26
27								4676	4676									28
29			-							4676	4676							30
31	HP-11		Motor	25	3	4676	4676					3	25	Motor			HP-12	32
33			-					4676	4676									34
35			-							4676	4676							36
37	HP-13		Motor	25	3	4676	4676					3	25	Motor			HP-14	38
39								4676	4676									40
41										4676	4676							42
43	LIGHTING - CORRIDOR B100		Lighting	20	1	1900	916					1	20	Lighting			Lighting	44
45	LCP-1		Power	20	1			200				1					Space	46
47	Space				1							1					Space	48
49	Space				1							1					Space	50
51	Space				1							1					Space	52
53	Space				1							1					Space	54
		Phase C					141		659		159							
	Total P	hase Co	nnected	Curr	ent (A):	2	46	23	37	23	36							
Load	I Classification	Co	onnecte	d Loa	d (VA)	Den	nand F	actor	De	emano	Load	(AV)				Panel Totals:		
Light	_			5 VA			125.00				19 VA					Connected Load (VA):	19925	
Moto				378 VA	١		101.79				885 V	A				al Demand Load (VA):	20343	
Powe	er		20	0 VA			100.00	1%		20	00 VA		ш	iahost (onnected Current (A): ed Phase Current (A):		240 A 246 A
													П	ignesi		Demand Current (A):		246 A 245 A
Note	s:														Total	Domana Garront (74)		. 10 71
Circi	uit Notes:																	

Volts: 480/277 Wye

Enclosure: NEMA 1

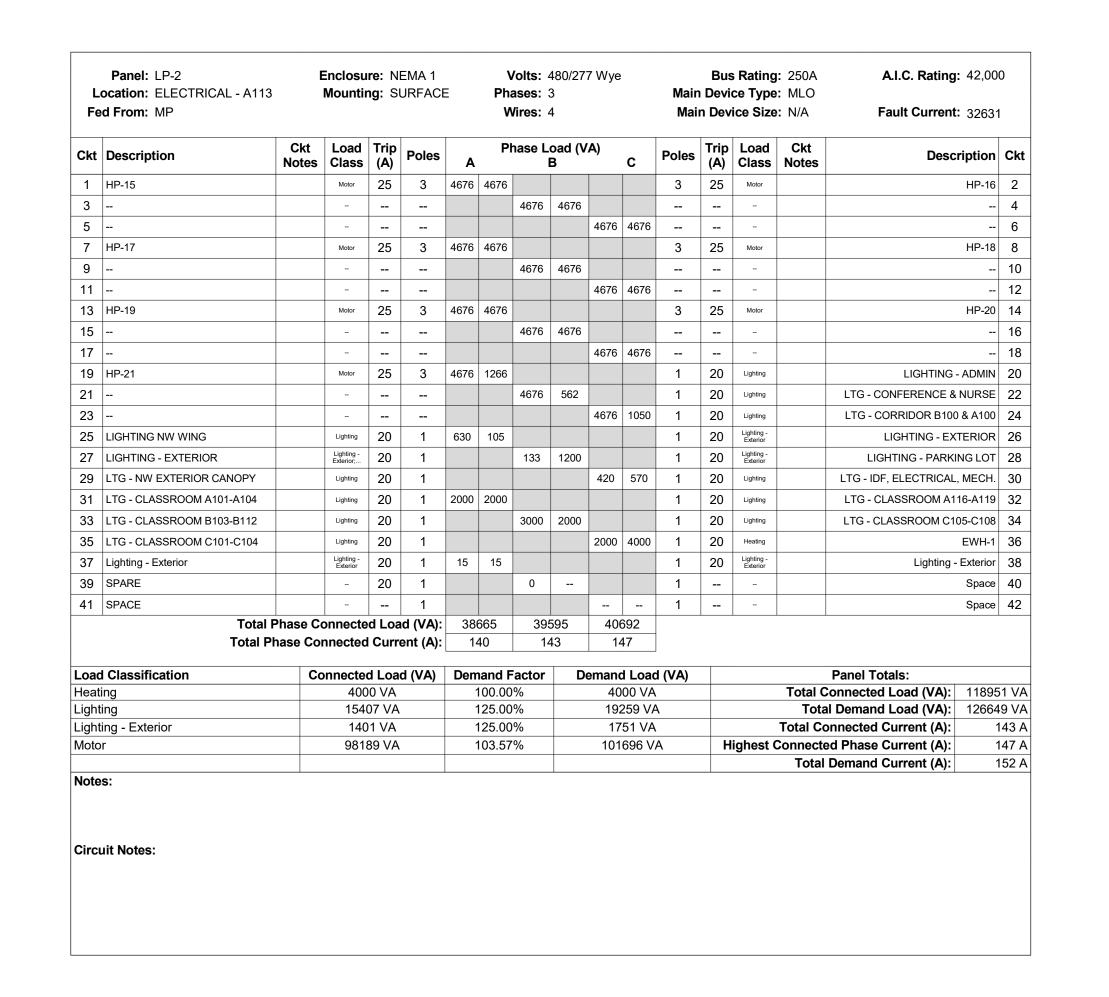
Mounting: SURFACE

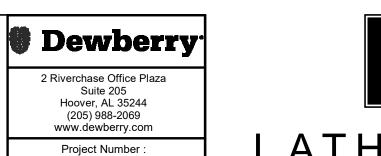
A.I.C. Rating: 42,000

Bus Rating: 400A

Main Device Type: MLO

	Panel: RP-2 ccation: CUSTODIAN - B104 d From: RP-1		Enclosu Mountir			ΞD	Pha	/olts: ases: { /ires: 4	3	o Wye			Devi	се Туре	: 225 A : MLO :: 225 A	A.I.C. Rating:		U
Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles		A	i	3	(3	Poles	Trip (A)	Load Class	Ckt Notes	Descrip	tion	Ckt
1	OHP-2 HVAC		HVAC	30	2	915	1414					2	30	HVAC		OHP-3 F	HVAC	2
3	-							915	1414									4
5	OHP-1 HVAC		HVAC	30	2					915	915	2	30	HVAC		OHP-5 H	HVAC	6
7						915	915											8
9	REC - GIRLS B102		Receptacle	20	1			720	1581			2	50	HVAC		OHP-9 H	HVAC	10
11	REC - CORRIDOR B100		Receptacle	20	1					720	1581							12
13	REC - RECEPTION B123		Receptacle	20	1	1260	720					1	20	Receptacle		REC - COUNSELOR	B113	14
15	REC - OFFICE B113		Receptacle	20	1			720	720			1	20	Receptacle		REC - PRINCIPAL	B111	16
17	REC - COPIER B123		Receptacle	20	1					800	720	1	20	Receptacle		REC - TOILET & FILE		18
19	REC - CONFERENCE B120		Receptacle	20	1	1260	180					1	20	Receptacle		REC - RISER		_
21	REC - NURSE B116 & ISO B114		Receptacle	20	1			1080	1200			1	20	Receptacle	1	REC - NURSE		
23	REC - CORRIDOR B100		Receptacle	20	1					720	720	1	20	Receptacle		REC - CLASSROOM		
25	REC - CLASSROOM B112		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM	B112	26
27	REC - CLASSROOM B110		Receptacle	20	1			720	900			1	20	Receptacle		REC - CLASSROOM	B110	_
29	REC - CLASSROOM B110		Receptacle	20	1					900	900	1	20	Receptacle		REC - CLASSROOM	B108	30
31	REC - CLASSROOM B108		Receptacle	20	1	900	720					1	20	Receptacle		REC - CLASSROOM	B108	32
33	REC - CLASSROOM B107		Receptacle	20	1			720	900			1	20	Receptacle		REC - CLASSROOM	B107	34
35	REC - CLASSROOM B107		Receptacle	20	1					900	900	1	20	Receptacle		REC - CLASSROOM	B105	36
37	REC - CLASSROOM B105		Receptacle	20	1	900	720					1	20	Receptacle		REC - CLASSROOM	B105	38
39	REC - CLASSROOM B103		Receptacle	20	1			900	900			1	20	Receptacle		REC - CLASSROOM	B103	40
41	REC - CLASSROOM B103		Receptacle	20	1					720	720	1	20	Receptacle		REC - CLASSROOM	C107	42
43	REC - CLASSROOM C107		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM	C107	44
45	REC - CLASSROOM C105		Receptacle	20	1			720	900			1	20	Receptacle		REC - CLASSROOM	C105	46
47	REC - CLASSROOM C105		Receptacle	20	1					900	720	1	20	Receptacle		REC - CLASSROOM	C106	48
49	REC - CLASSROOM C106		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM	C106	50
51	REC - CLASSROOM C104		Receptacle	20	1			720	900			1	20	Receptacle		REC - CLASSROOM	C104	52
53	REC - CLASSROOM C104		Receptacle	20	1					900	720	1	20	Receptacle		REC - CLASSROOM	C103	54
55	REC - CLASSROOM C103		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM	C103	56
57	REC - CLASSROOM C101		Receptacle	20	1			720	900			1	20	Receptacle		REC - CLASSROOM	C101	58
59	REC - CLASSROOM C101		Receptacle	20	1					900	720	1	20	Receptacle		REC - CLASSROOM	C102	60
61	REC - CLASSROOM C102		Receptacle	20	1	900	900					1	20	Receptacle		REC - CLASSROOM	C102	62
63	REC - BOYS B106		Receptacle	20	1			540	1200			1	20	Receptacle		REC - NURSE	B116	64
65	BATTERY CHARGER		Power	20	1					1000	1000	1	20	Power		BLOCK HEA	ATER	66
67	GEN ALT STP HEAT & REC		Receptacle; Power	20	1	1180	200					1	15	Motor			EF-2	68
69	REC - EWC	1	Receptacle	20	1			800	800			1	20	Receptacle	1	REC -	EWC	70
71	REC - EWC	1	Receptacle	20	1					800	180	1	15	Motor		DAMPER RISER	B115	72
73	JOCKEY PUMP		Motor	40	1	2880						1				;	Spare	74
75	Space				1							1					Spare	76
77	Space				1							1					Spare	78
79	Space				1							1					Spare	80
81	Space				1							1			1	,	Spare	82
83	Space				1							1			1	!	Spare	84
	Total F Total Pl	Phase Conase Co			` '		079 03		590 32	199 16								
_oad	Classification	Co	onnecte	d Loa	d (VA)	Den	nand F	actor	De	emano	l Load	d (VA)				Panel Totals:		
/loto				0 VA	, · · ·		122.09				80 VA				Total C	Connected Load (VA):	6563	39 VA
owe				0 VA			100.00				00 VA				Tota	al Demand Load (VA):)9 VA
	ptacle			00 VA			60.44°				950 VA		+. .	ا الما		onnected Current (A):		182 A
IVA(<i>j</i>		114	79 VA			100.00	1%		114	179 V	4	H	ignest (ed Phase Current (A): Demand Current (A):		203 A 132 A
	s: ROVIDE TWO EQUAL SECTIO ACH PANEL SHALL HAVE 3-1"		CONDU	IITS S	STUBBE	D OU	Т АВО	VE CE	ILING	FOR F	UTUF	RE CIRC	:UITS.		iotal	Demanu Current (A):		132 A
	uit Notes: ROVIDE GFI BREAKER																	

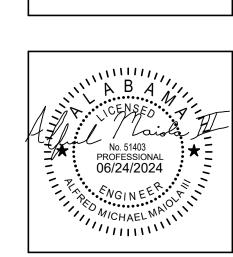




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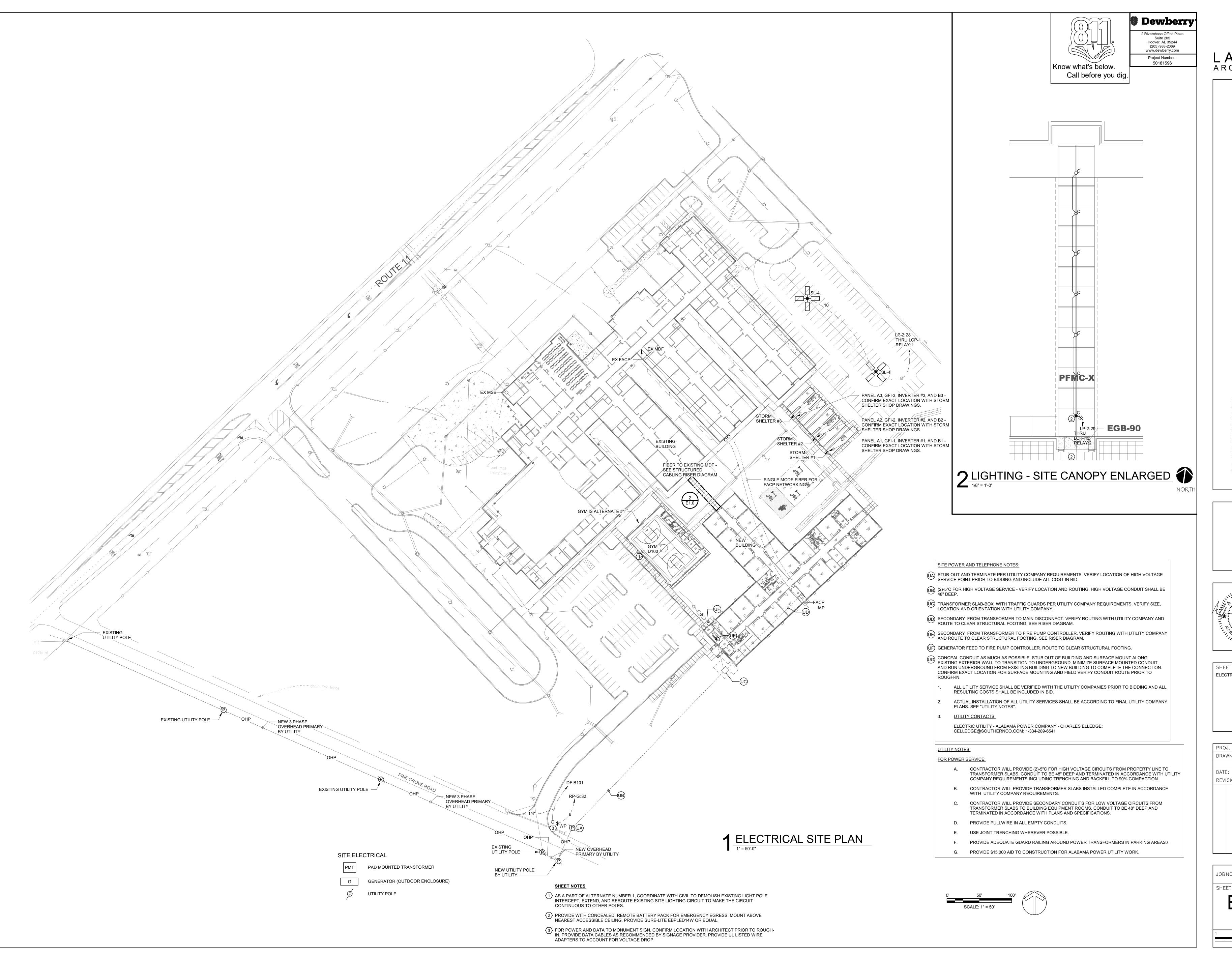
SUMTER OUNTY ESUMTER COUNTY E



SHEET TITLE: ELECTRICAL PANELBOARD SCHEDULES

PROJ. MGR.: -	AMM
DRAWN:	DB
DATE: -	06/24/24
REVISIONS	

SHEET NO:

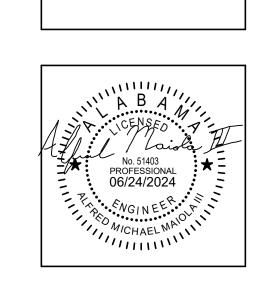


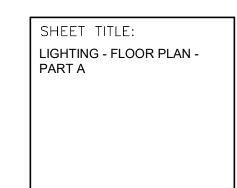
SHEET TITLE: ELECTRICAL SITE PLAN

PROJ. MGR.: -DRAWN: DATE: -06/24/24 REVISIONS

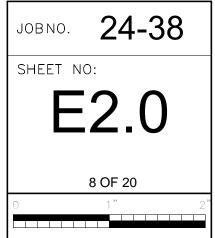
SHEET NO: 7 OF 20

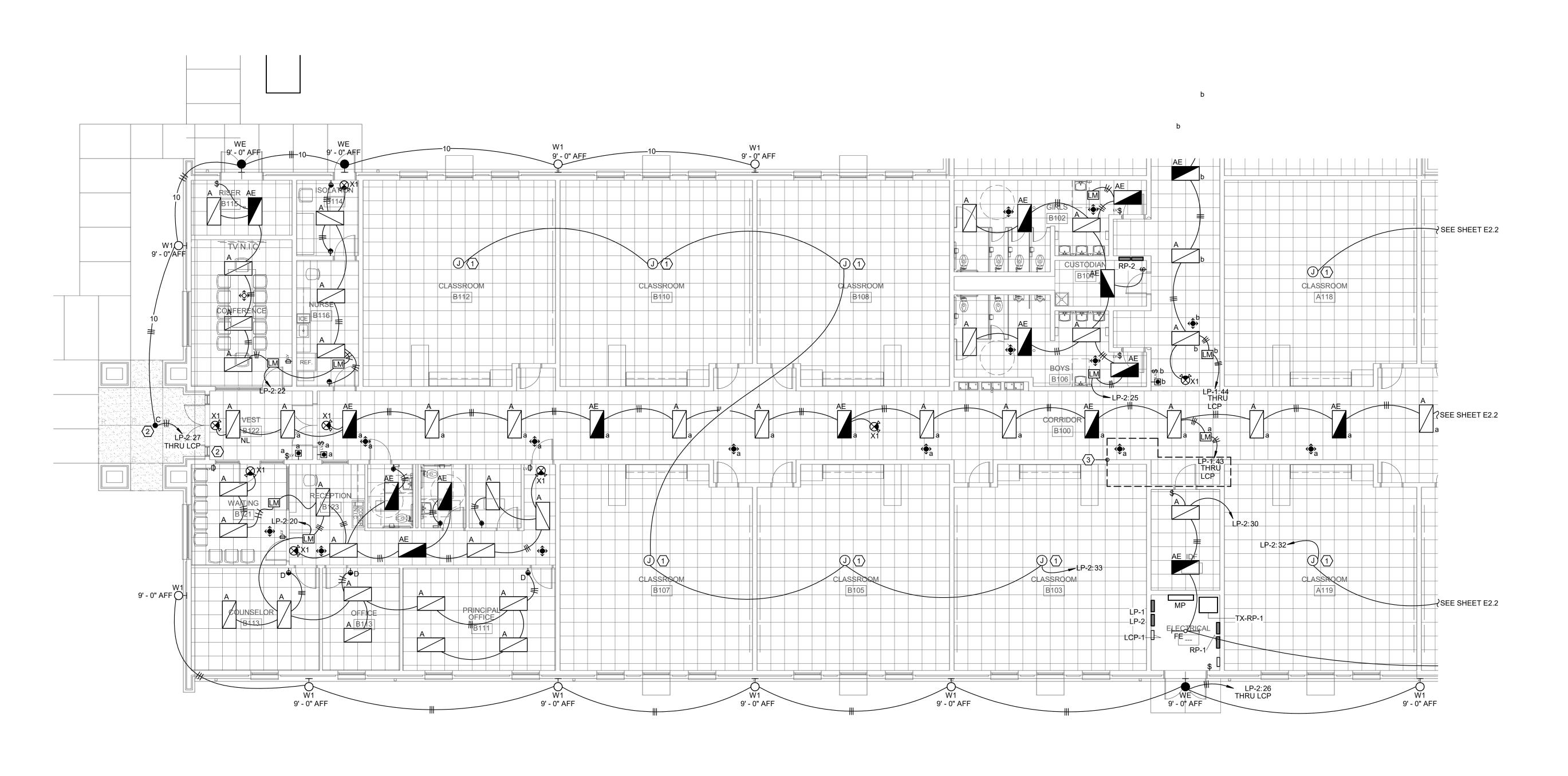






PROJ. MGR.: -	AMM
DRAWN:	DB
DATE: –	06/24/24
REVISIONS	





<u>LIGHTING - FLOOR PLAN - PART A</u>

- $\fbox{1}$ REFER TO E6.0 FOR TYPICAL CLASSROOM LIGHTING CIRCUITS AND CONTROLS.
- PROVIDE WITH CONCEALED, REMOTE BATTERY PACK FOR EMERGENCY EGRESS. MOUNT ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE SURE-LITE EBPLED14W OR EQUAL.
- TYPICAL FOR ALL CORRIDOR LIGHTING: LIGHTS AND CONTROLS SHALL BE AS FOLLOWS: SCHEDULE ON/SCHEDULE OFF WITH 2 HOUR TIMED OVERRIDE SWITCH.

 DURING "ON" HOURS, OCCUPANCY SENSORS SHALL OPERATE AS AUTOMATIC ON (FULL BRIGHT)/AUTOMATIC DIM TO 50%.

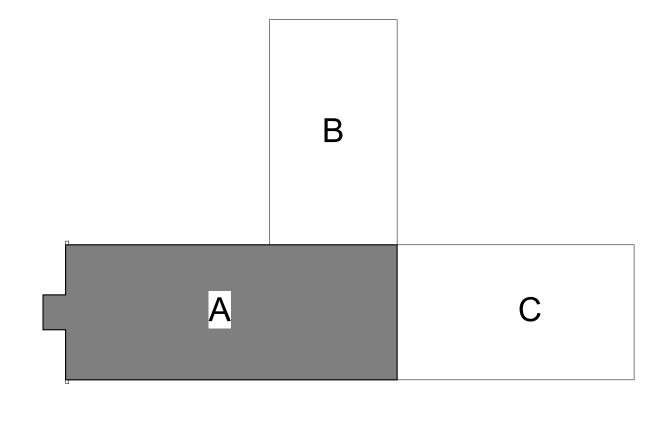
 DURING "ON" HOURS, SWITCHES SHALL BE MANUAL ON/MANUAL OFF.

1 LIGHTING - FLOOR PLAN - PART A

GENERAL NOTES:

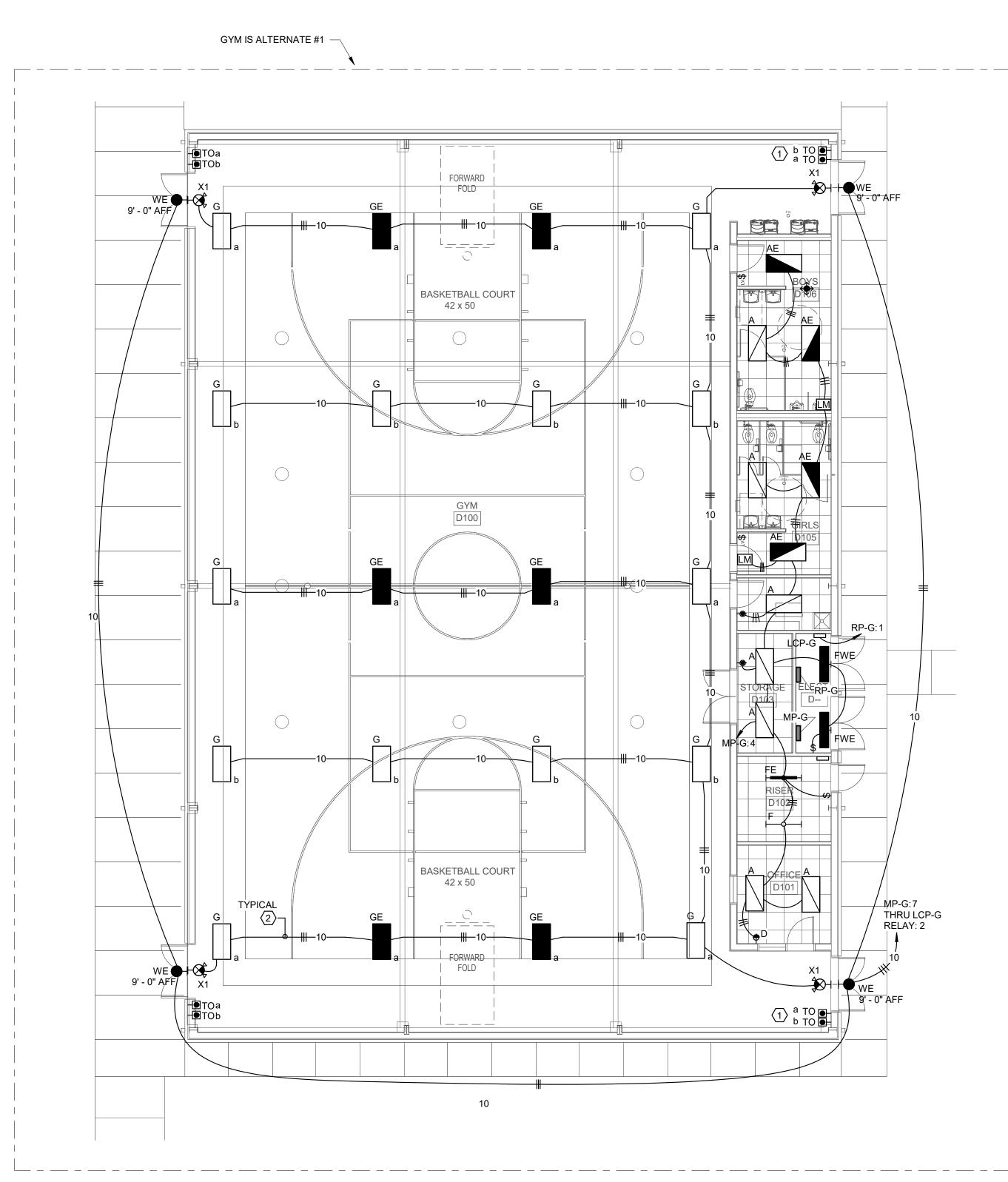
- A. LOW VOLTAGE CIRCUITRY IS NOT SHOWN ON THE FLOOR PLANS FOR CLARITY. LOW VOLTAGE CIRCUITRY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE LIGHTING CONTROL VENDOR'S INSTRUCTIONS AND AS REQUIRED BETWEEN ALL LOW VOLTAGE CONTROLS AND FIXTURES.
- B. LIGHTING CONTROLS VENDOR SHALL PRODUCE AND SUBMIT JOB SPECIFIC SHOP DRAWINGS SHOWING ALL DEVICE LOCATIONS, SENSOR COVERAGES, AND TERMINAL-TO-TERMINAL WIRING DIAGRAMS SPECIFIC TO THIS PROJECT.
- C. OCCUPANCY/VACANCY COVERAGE SHOWN AS A BASIS OF DESIGN. ADD DEVICES AS REQUIRED FOR FULL COVERAGE WITHIN THE APPLICABLE AREA/ROOM.

 D. LIP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT, NEUTRALS MAY NOT BE SHARED.
- D. UP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT. NEUTRALS MAY NOT BE SHARED. SEE SPECIFICATIONS FOR ALL DETAILS/REQUIREMENTS.
- E. UPON LOSS OF POWER AND/OR ACTIVATION OF THE FIRE ALARM, ALL AUTOMATICALLY CONTROLLED EMERGENCY LIGHTING SHALL AUTOMATICALLY TURN ON AND FULL BRIGHT. PROVIDE FIRE ALARM RELAY AND LIGHTING CONTROL DEVICES AS REQUIRED.









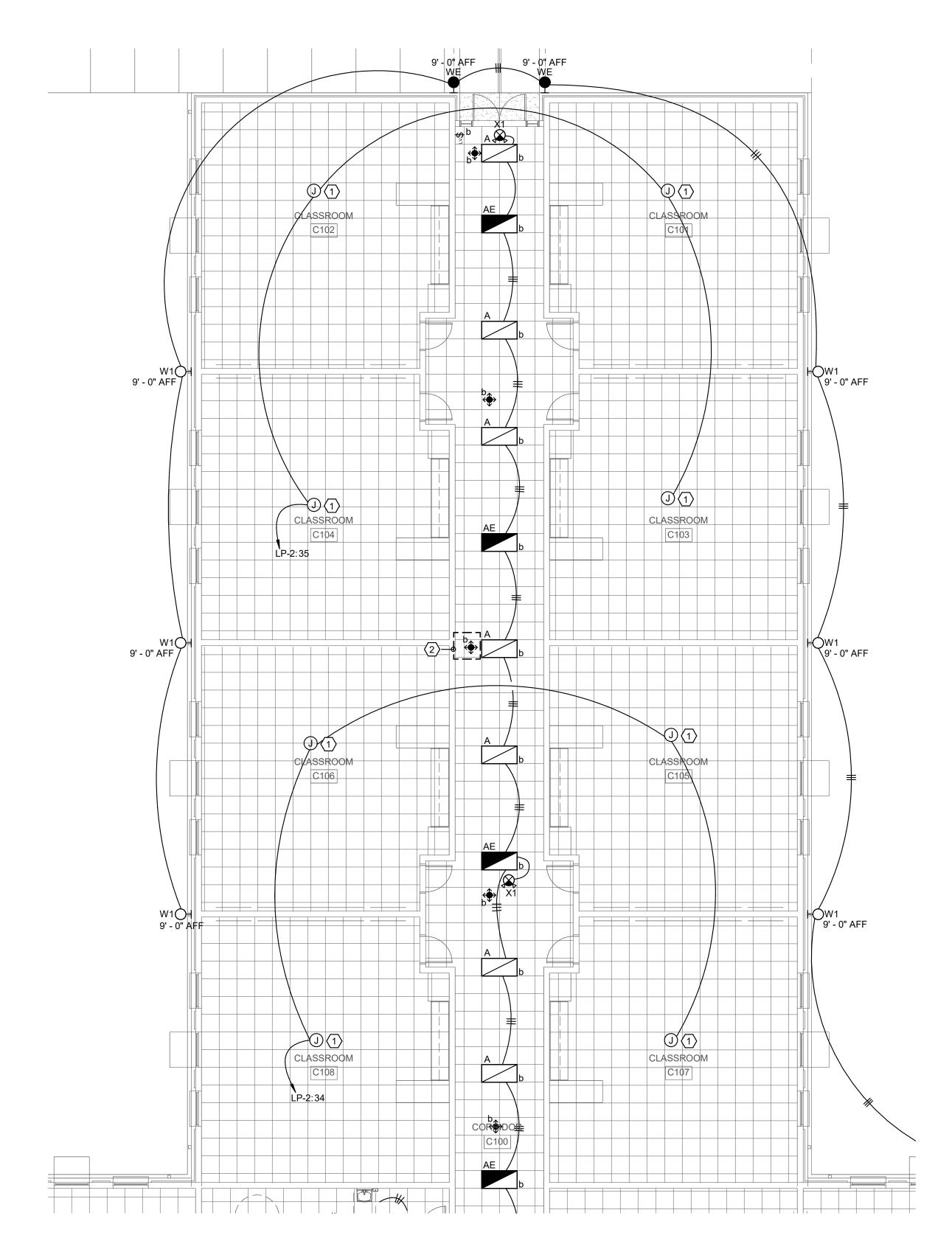
2 LIGHTING - GYM FLOOR PLAN

1/8" = 1'-0"

LIGHTING - GYM FLOOR PLAN KEYNOTES:

TIME OVERRIDE SHALL INCLUDE ON OFF FUNCTION DURING OPERABLE DURING "ON" HOURS. SEE DETAIL "MULTIZONE SWITCH AND OVERRIDE SWITCH SCHEMATIC". TYPICAL FOR ALL LCP TIME OVERRIDE SWITCHES.

(2) COORDINATE WITH GC AND PAINT ALL EXPOSED CONDUIT. CONFIRM COLOR FINISH WITH ARCHTECT. MINIMIZE EXPOSED CONDUIT AS MUCH AS POSSIBLE.





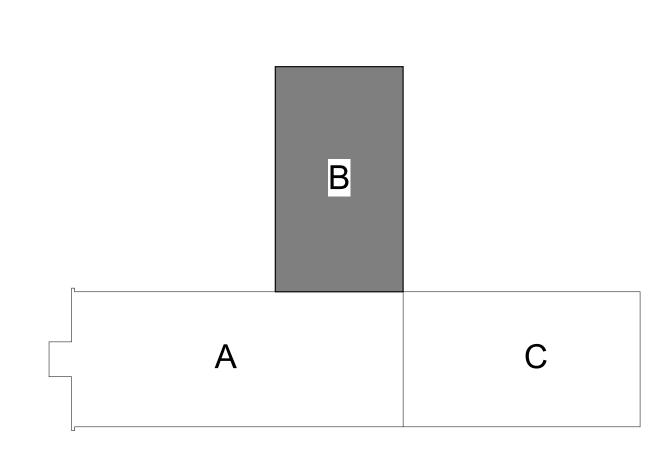
1 LIGHTING - FLOOR PLAN - PART B

<u>LIGHTING - FLOOR PLAN - PART B</u>

 $\fbox{1}$ REFER TO E6.0 FOR TYPICAL CLASSROOM LIGHTING CIRCUITS AND CONTROLS.

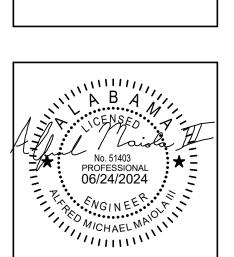
TYPICAL FOR ALL CORRIDOR LIGHTING: LIGHTS AND CONTROLS SHALL BE AS FOLLOWS: SCHEDULE ON/SCHEDULE OFF WITH 2 HOUR TIMED OVERRIDE SWITCH.

DURING "ON" HOURS, OCCUPANCY SENSORS SHALL OPERATE AS AUTOMATIC ON (FULL BRIGHT)/AUTOMATIC DIM TO 50%. DURING "ON" HOURS, SWITCHES SHALL BE MANUAL ON/MANUAL OFF.





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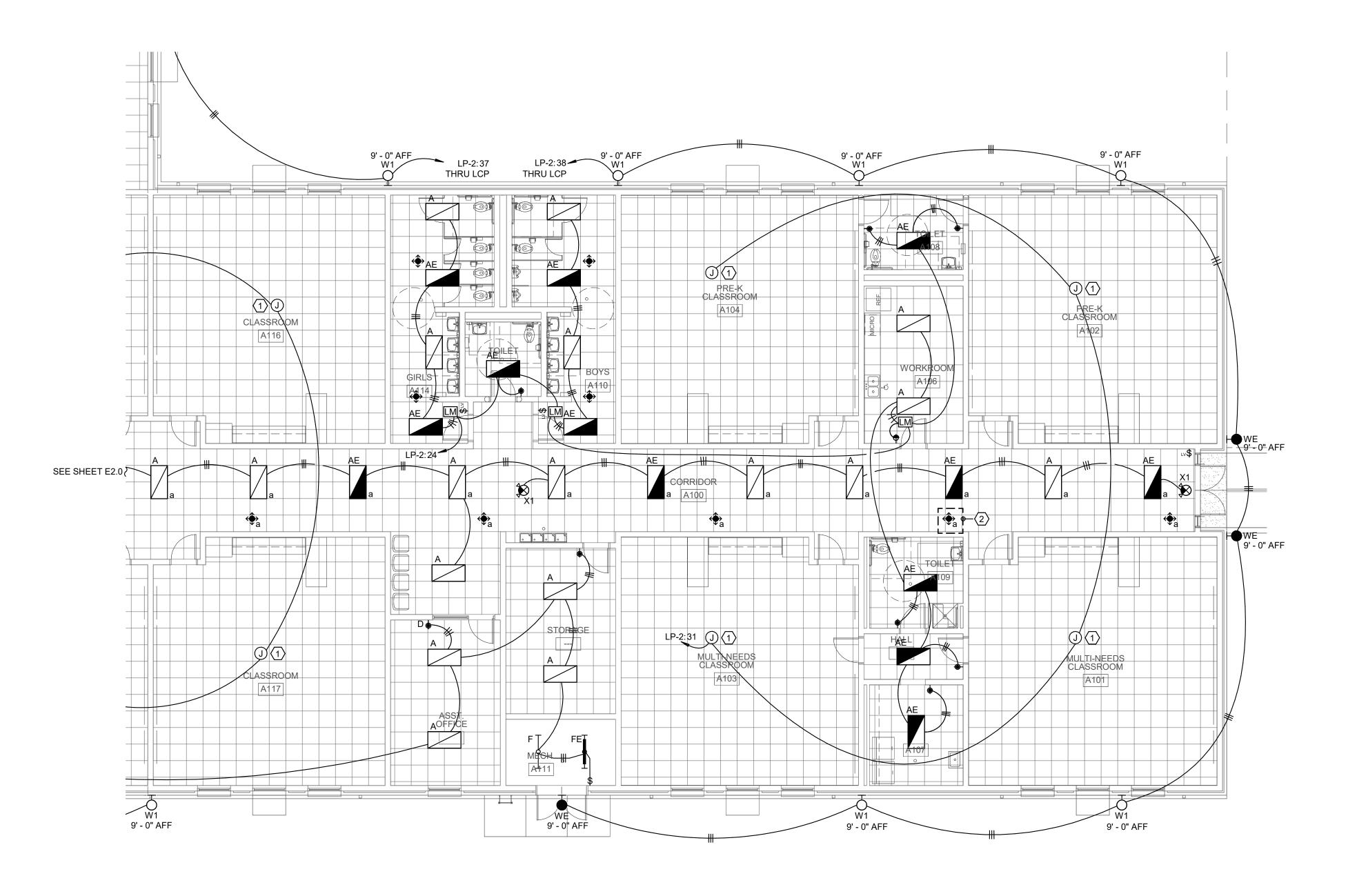
PROJ. MGR.: -	AMM
DRAWN:	DB
DATE: -	06/24/24
REVISIONS	

JOBNO. 24-38

SHEET NO:

E2.1

9 OF 20

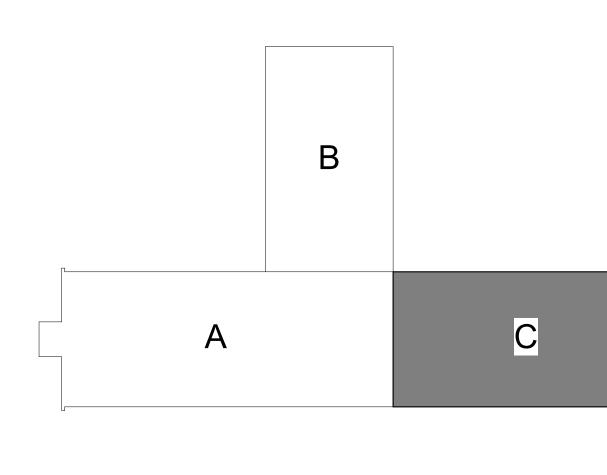




<u>LIGHTING - FLOOR PLAN - PART C</u>

(1) REFER TO E6.0 FOR TYPICAL CLASSROOM LIGHTING CIRCUITS AND CONTROLS.

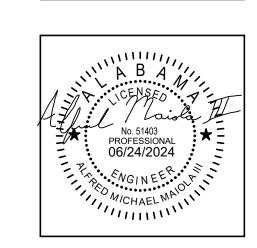
TYPICAL FOR ALL CORRIDOR LIGHTING: LIGHTS AND CONTROLS SHALL BE AS FOLLOWS: SCHEDULE ON/SCHEDULE OFF WITH 2 HOUR TIMED OVERRIDE SWITCH. DURING "ON" HOURS, OCCUPANCY SENSORS SHALL OPERATE AS AUTOMATIC ON (FULL BRIGHT)/AUTOMATIC DIM TO 50%. DURING "ON" HOURS, SWITCHES SHALL BE MANUAL ON/MANUAL OFF.

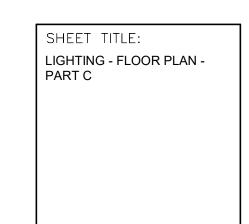




ELEMENTARY ADDITION TO

SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION





PROJ. MGR.: -	AMM
DRAWN:	DB
DATE: -	06/24/24
REVISIONS	

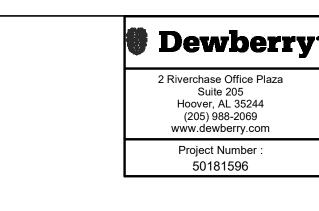
JOBNO. 24-38

SHEET NO:

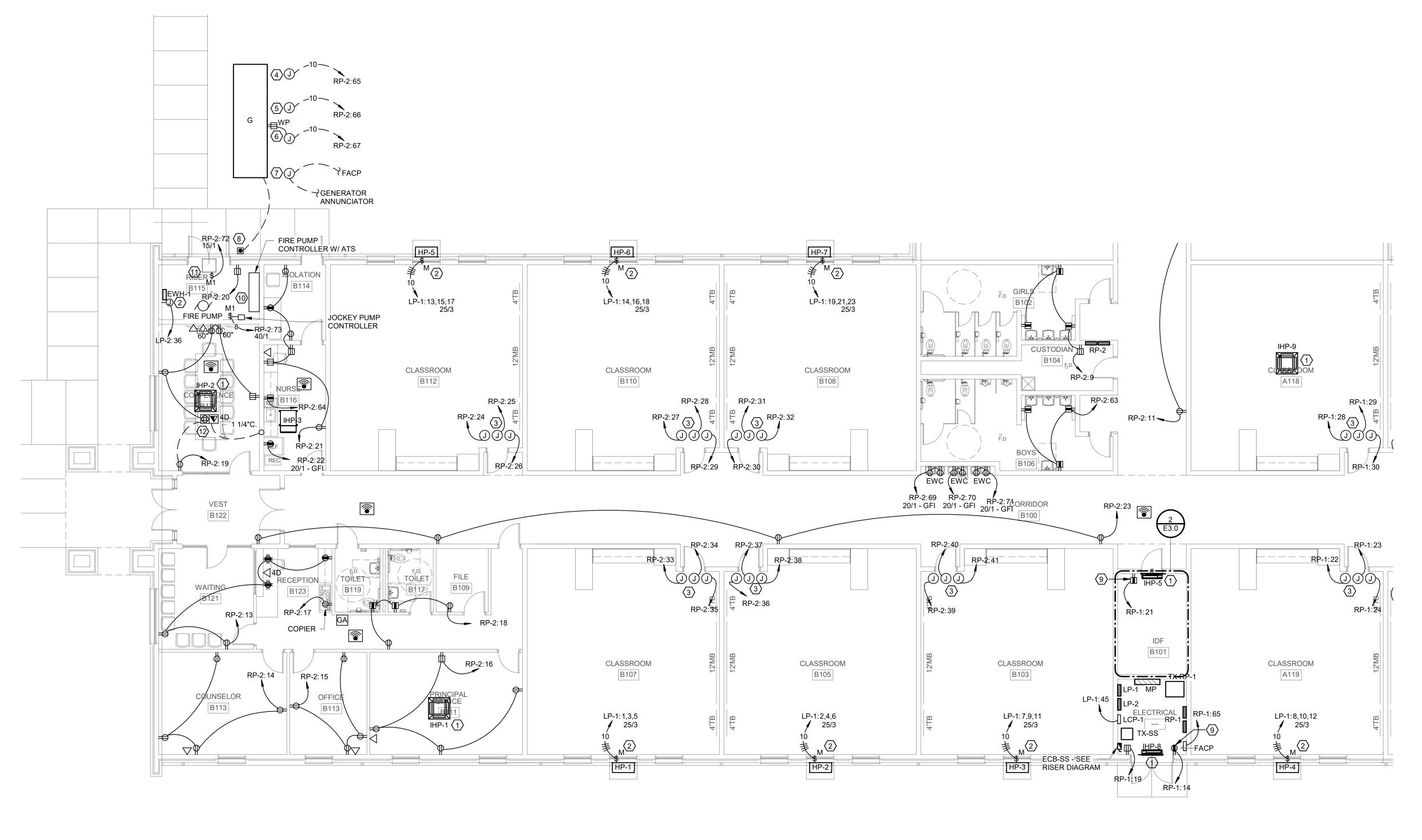
E2.2

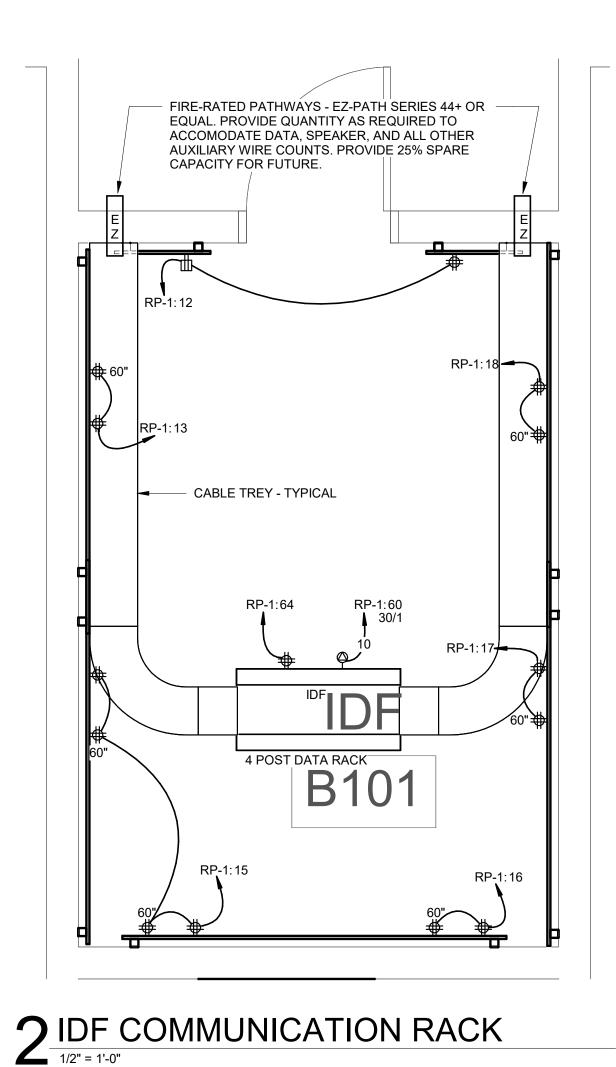
10 OF 20

0 1" 2









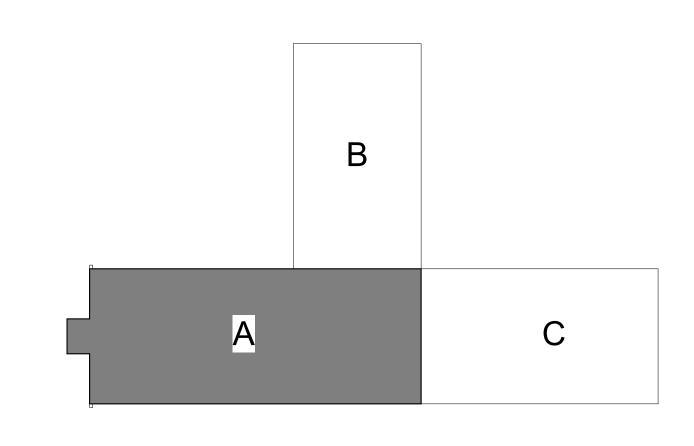
1 POWER AND VOICE/DATA - FLOOR PLAN - PART A

GENERAL NOTES(APPLIES TO ALL SHEETS):

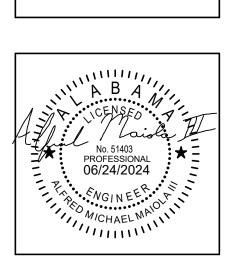
- A. UP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT. NEUTRALS MAY NOT BE SHARED. SEE SPECIFICATIONS FOR ALL DETAILS/REQUIREMENTS
- B. SUPPORT OUTLET BOXES IN STUD PARTITIONS WITH SUPPORT THAT SPANS BETWEEN TWO STUDS.
- C. SUPPORT ALL FLEXIBLE CONDUIT WITHIN 12" OF THE ELECTRICAL CONNECTION POINT OF THE EQUIPMENT.
- PROVIDE ALL UNISTRUT AS REQUIRED FOR MOUNTING OF ELECTRICAL EQUIPMENT CORRESPONDING TO MECHANICAL AND PLUMBING EQUIPMENT.
- VERIFY FINAL LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE CLEARANCES PER NEC 110.26 FOR ALL ELECTRICAL EQUIPMENT.
- F. PROVIDE FUSE ADAPTERS FOR OVERSIZED DISCONNECTS SWITCHES AS REQUIRED. G. ALL 15 AND 20 AMP OUTLETS SHALL BE TAMPER RESISTANT UNLESS PERMITTED IN E-001A NOTES.

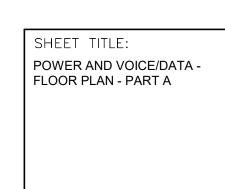
SHEET KEYNOTES:

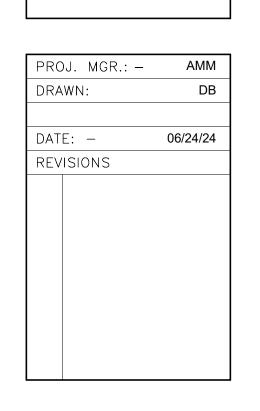
- (1) POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
- 2 DISCONNECTING MEANS INTEGRAL TO THE UNIT. COORDINATE EXACT CONNECTION POINT WITH MECHANICAL EQUIPMENT SUBMITTALS.
- (3) CIRCUIT REPRESENTS THE TYPICAL CLASSROOM LAYOUT AND CIRCUIT. REFER TO E6.0 FOR TYPICAL CLASSROOM POWER AND VOICE/DATA LAYOUT AND CIRCUITING.
- 4 BATTERY CHARGER. 120V, 1PH
- (5) BLOCK HEATER. 120, 1PH
- 6 GENERATOR OUTLET, ALTERNATOR STRIP HEAT
- $\langle 7 \rangle$ (1) 1"C. TO FACP. (1) 1"C. TO GENERATOR ANNUCIATOR.
- (8) EMERGENCY POWER OFF BUTTON -1"C. FROM EPO TO GENERATOR.
- 9 FOR CONDENSATE PUMP. COORDINATE EXACT MOUNTING HEIGHT WITH MECHACNICAL CONTRACTOR AND LOCATE NEXT TO THE UNIT.
- FIRE PUMP AND FIRE PUMP CONTROLLER (RESPECTIVELY). COORDINATE EXAT LOCATION AND CONNECTION POINTS WITH EEQUIPMENT SUBMITTALS. THE FEED FOR THE FIRE PUMP CONTROLLER SHALL BE ROUTED UNDERGROUND FROM BOTH THE GENERATOR AND THE UTILITY CONNECTION. DO NOT RUN UNPROTECTED THROUGH THE BUILDING AT ANY PIONT.
- FOR CONNECTION TO AUTO DAMPER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- FLOOR BOX SHALL BE PLACED IN THE CENTERED OF THE ROOM. PROVIDE LEGRAND (OR EQUAL) RFB6-OG WITH (2) RFB6DP FOR (2) DUPLEX OUTLETS AND (1) RFB62A FOR (4) DATA CONNECTIONS (1 1/4"C.). PROVIDE FLANGED COVER FPBTCXX AND CONFIRM COLOR FINISH WITH ARCHITECT PRIOR TO ORDERING.





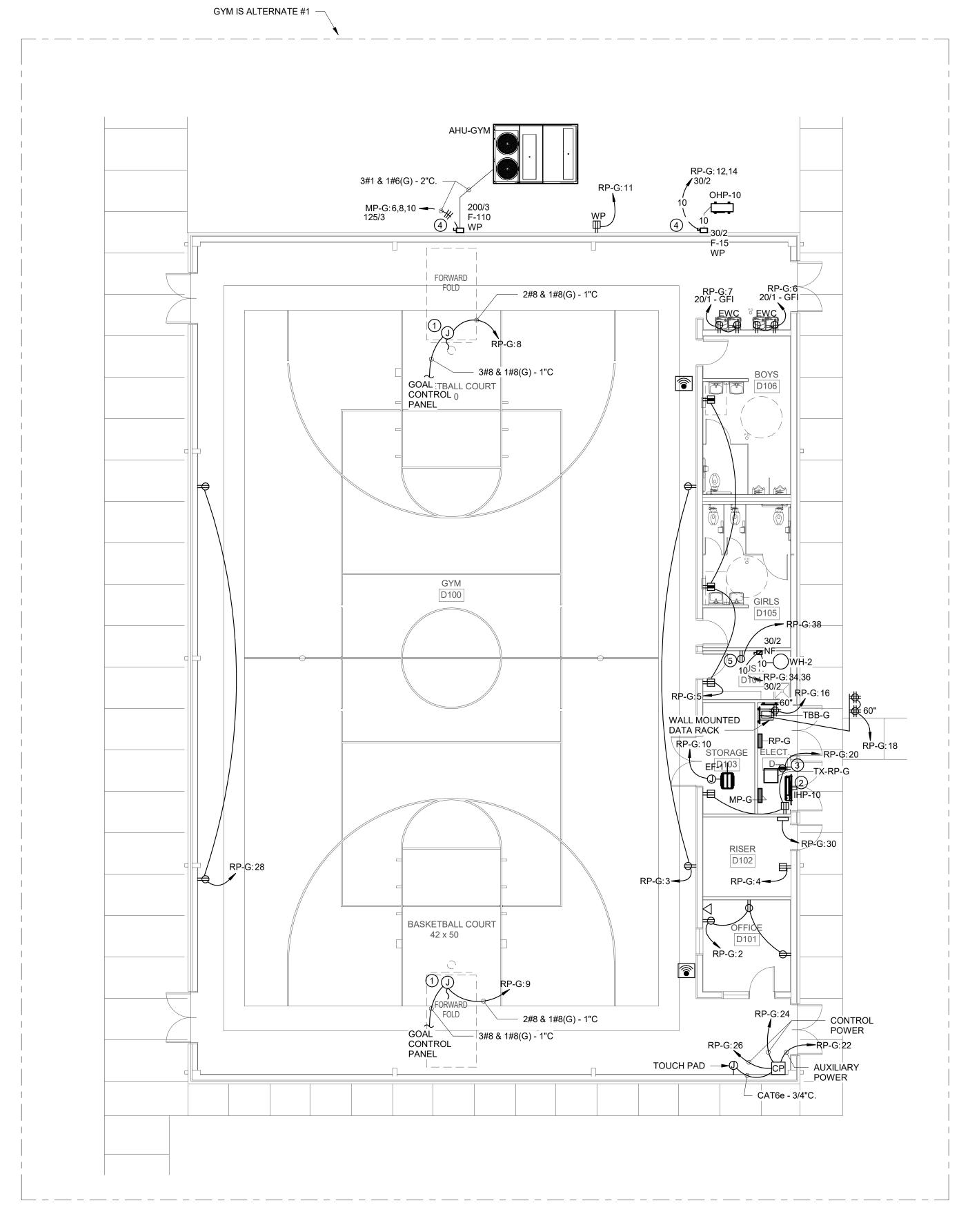


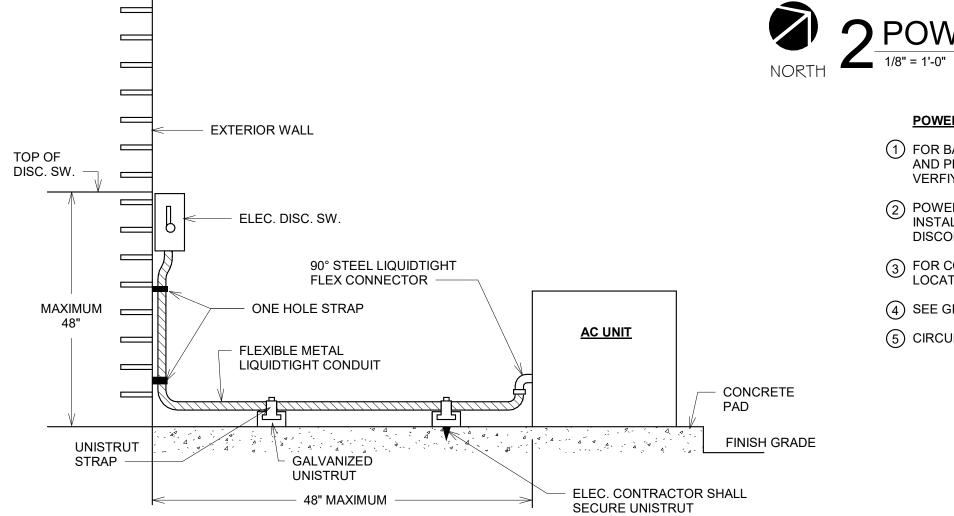




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2 POWER AND VOICE/DATA - GYM FLOOR PLAN 1/8" = 1'-0"

POWER AND VOICE/DATA - GYM FLOOR PLAN SHEET KEYNOTES:

- 1) FOR BASKETBALL GOAL RAISE/LOWER POWER AND CONTROL PANEL. COORDINATE WITH EQUIPMENT SUBMITTALS AND PROVIDE FINAL CONNECTION DEVICE. COORDINATE CONTROLS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. VERFIY LOCATION WITH OWNER & ARCHITECT PRIOR TO ROUGH-IN.
- POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
- (3) FOR CONDENSATE PUMP. COORDINATE EXACT MOUNTING HEIGHT WITH MECHACNICAL CONTRACTOR AND LOCATE NEXT TO THE UNIT.
- (4) SEE GROUND OUNTED MECHANICAL UNIT CONNECTION DETAIL.
- (5) CIRCULATION PUMP COORDINATE LOCATION PRIOR TO ROUGH-IN.

POWER AND VOICE/DATA - FLOOR PLAN - PART B 1/8" = 1'-0"

POWER AND VOICE/DATA - FLOOR PLAN - PART B SHEET KEYNOTES:

- POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
- DISCONNECTING MEANS INTEGRAL TO THE UNIT. COORDINATE EXACT CONNECTION POINT WITH MECHANICAL EQUIPMENT SUBMITTALS.
- CIRCUIT REPRESENTS THE TYPICAL CLASSROOM LAYOUT AND CIRCUIT. REFER TO E6.0 FOR TYPICAL CLASSROOM POWER AND VOICE/DATA LAYOUT AND CIRCUITING.



KEY PLAN

SCALE: N.T.S.

PROJ. MGR.: — AMM
DRAWN: DB

DATE: — 06/24/24

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SHEET TITLE:

POWER AND VOICE/DATA -FLOOR PLAN - PART B

JOBNO. 24-38

SHEET NO:

E3.1

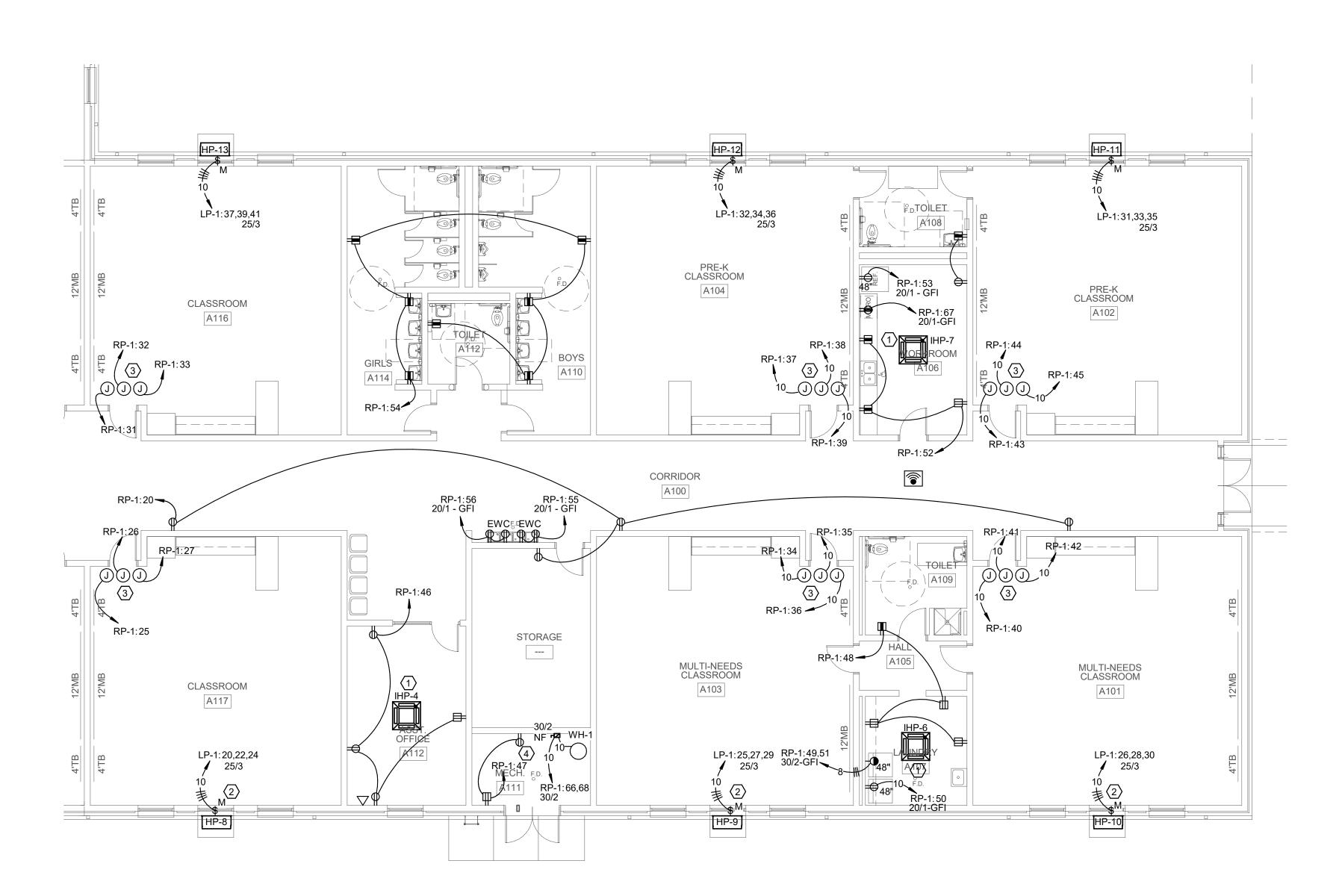
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TYP. MECH. UNIT CONNECTION DETAIL

NO SCALE

FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECH UNIT - STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH UNIT WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.

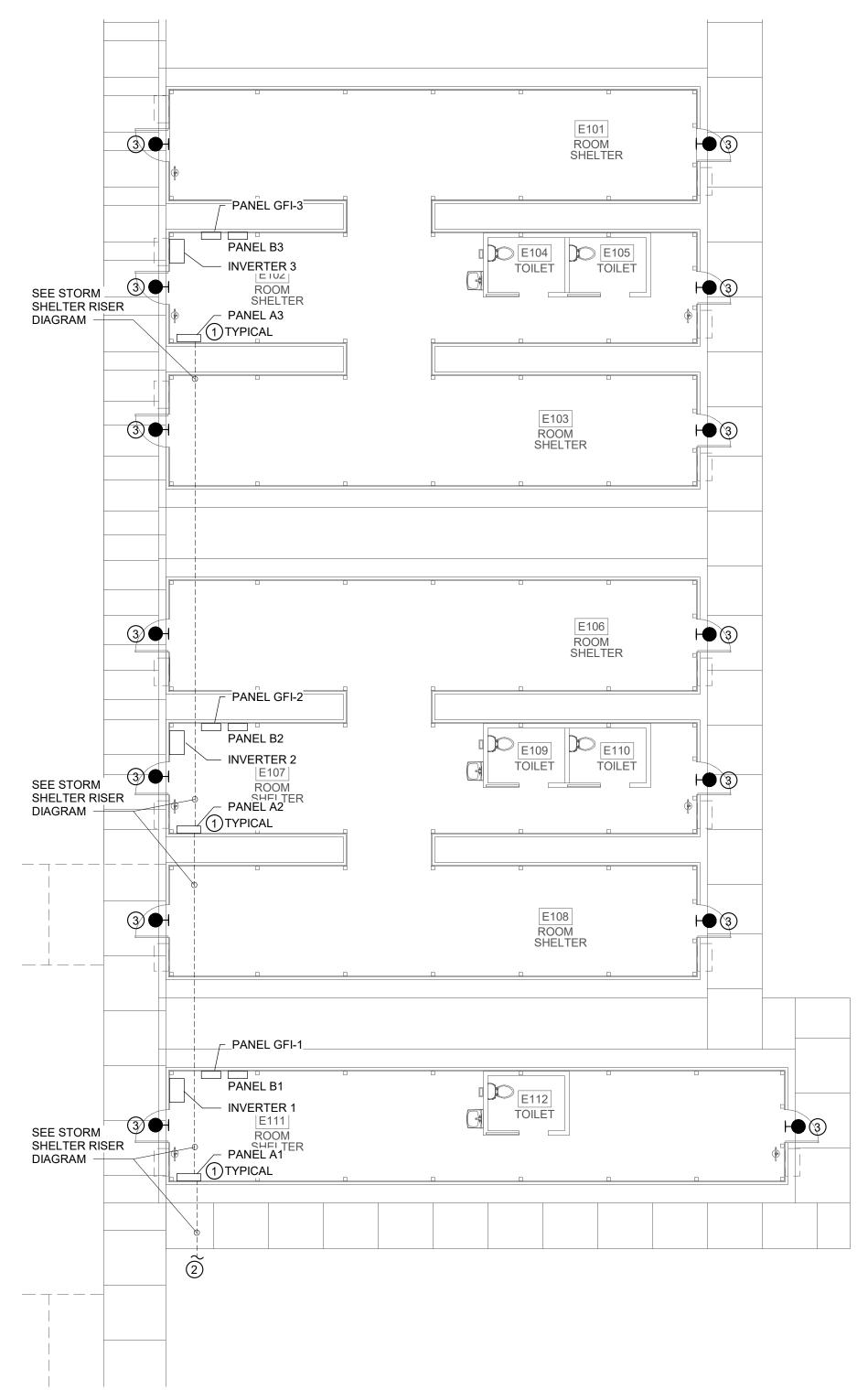
TO CONCRETE PAD





1 POWER AND VOICE/DATA - FLOOR PLAN - PART C

- POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
- \bigcirc DISCONNECTING MEANS INTEGRAL TO THE UNIT. COORDINATE EXACT CONNECTION POINT WITH MECHANICAL EQUIPMENT SUBMITTALS.
- © CIRCUIT REPRESENTS THE TYPICAL CLASSROOM LAYOUT AND CIRCUIT. REFER TO E6.0 FOR TYPICAL CLASSROOM POWER AND VOICE/DATA LAYOUT AND CIRCUITING.
- 4 CIRCULATION PUMP COORDINATE LOCATION PRIOR TO ROUGH-IN.



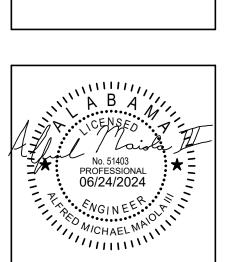


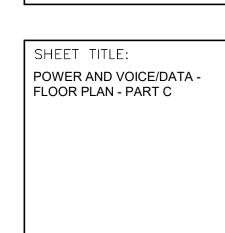
ELECTRICAL - STORM SHELTER FLOOR PLAN KEYNOTES:

- (1) COORDINATE ALL ROUGH-IN LOCATIONS, WIRING REQUIREMENTS, ETC. WITH STORM SHELTER VENDOR. STORM SHELTER IS A PRE-MANUFACTURERED STORM SHELTER WITH PRE-ASSEMBLED WIRING & SYSTEMS.
- (2) TO STORM SHELTER GENERATOR. GENERATOR BY STORM SHELTER MANUFACTURER.
- ③ OUTDOOR WALL MOUNTED LUMINAIRE WITH BATTERY BACKUP. LUMINAIRE PROVIDED BY OTHERS IN THE PRE-MANUFACTURERED STORM SHELTER UNIT.



SUMTER COUNTY

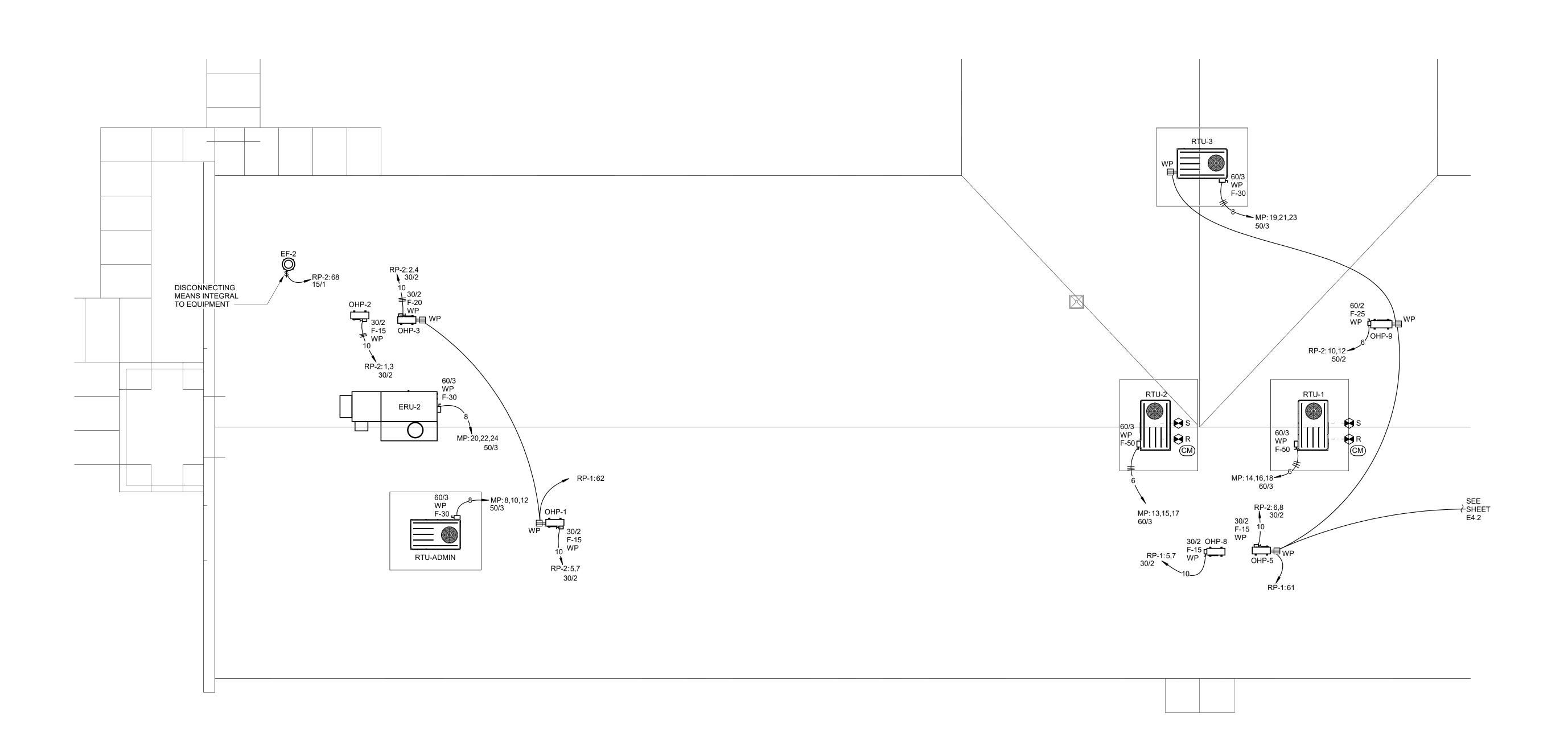




PROJ. MGR.: -	AMM
DRAWN:	DB
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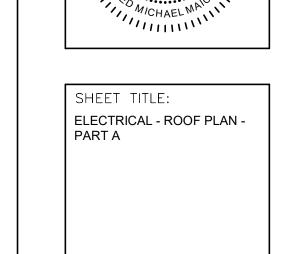


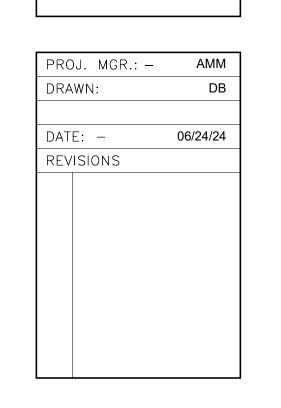
1 ELECTRICAL - ROOF PLAN - PART A

1/8" = 1'-0"

KEY PLAN

SCALE: N.T.S.





JOBNO. 24-38

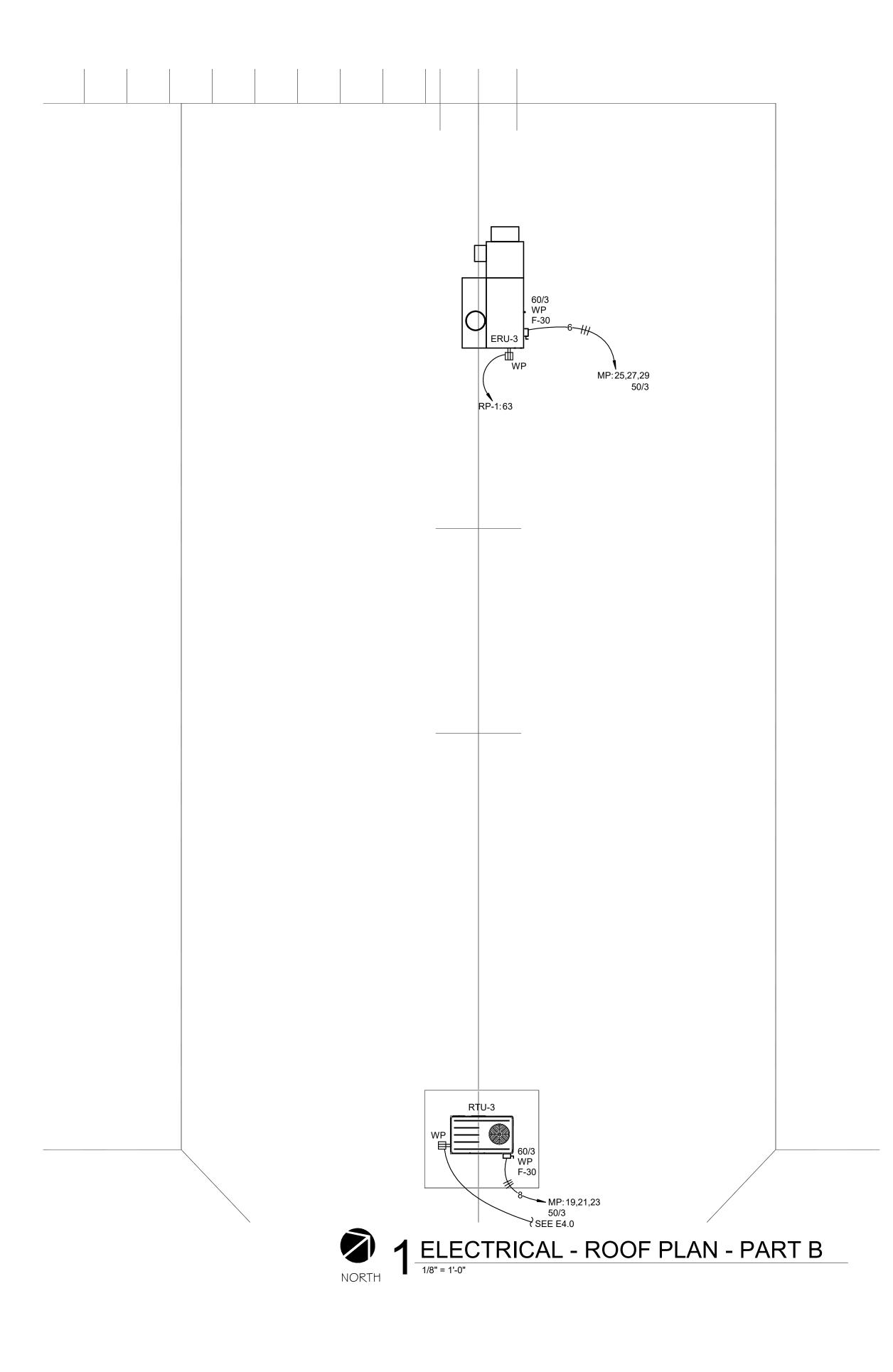
SHEET NO:

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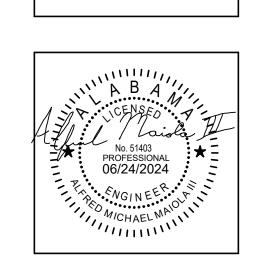


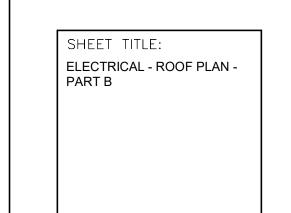


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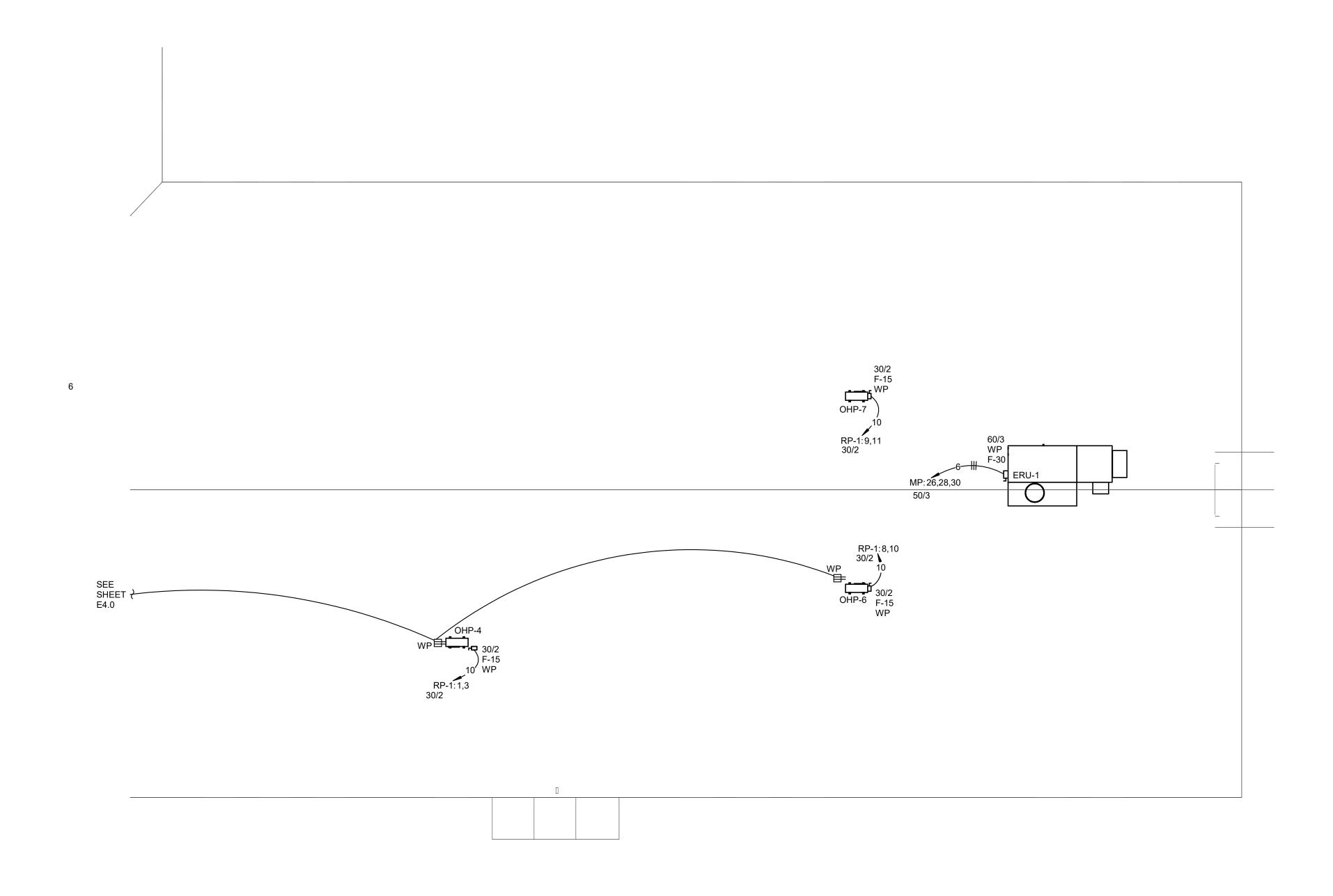
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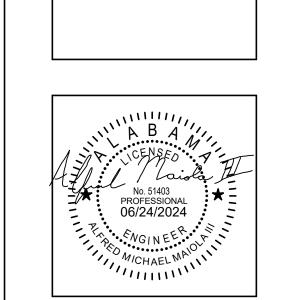
KEY PLAN

SCALE: N.T.S.





1 ELECTRICAL - ROOF PLAN - PART C



SHEET TITLE:
ELECTRICAL - ROOF PLAN PART C

PROJ. MGR.: -	AMM
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DATE: -	06/24/24
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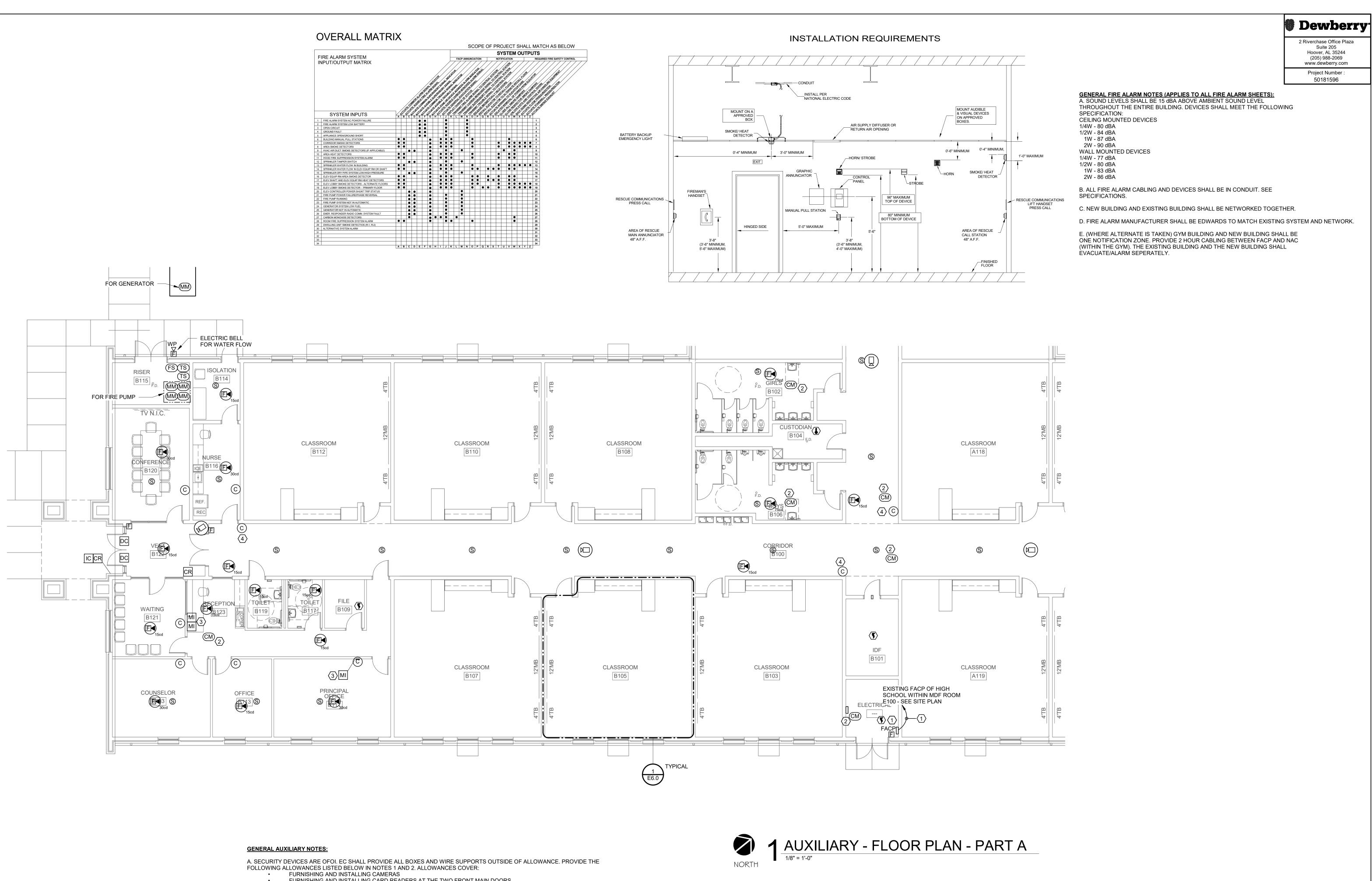
E4.2

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0 1" 2"

KEY PLAN

SCALE: N.T.S.



- FURNISHING AND INSTALLING CARD READERS AT THE TWO FRONT MAIN DOORS
 FURNISHING AND INSTALLING VIDEO CALL IN FROM FRONT DOOR
- FURNISHING AND INSTALLING VIDEO CALL IN FROM FRONT DOOR FURNISHING AND INSTALLING WIRING FOR ALL CAMERAS AND CARD READERS FURNISHING AND INSTALLING SECURITY ACCESS CONTROL PANELS
- FURNISHING AND INSTALLING 64 CHANNEL NVR WITH 12TB HDD AND A 3 MONITOR VIDEO WALL WITH A
 WORKSTATION. FURNISHING 1 YEAR OF LICENSES.

1. CCTV SYSTEM - \$65,000.00. INCLUDES INSTALLATION OF 39 CAMERAS, A 64 CHANNEL NVR WITH 12TB HDD, 1 YEAR

- OF LICENSES AND A 3 MONITOR VIDEO WALL WITH A WORKSTATION.
- ACCESS CONTROL \$9000.00. INCLUDES VIDEO ACCESS WITH INTERCOM ON MAIN DOOR, AND ACCESS ON INTERIOR DOOR.

B. EC SHALL PROVIDE ALL DEVICES, RACEWAYS, BOXES, J-HOOKS, DATA RACK, HORIZONTAL CABLING, FIBER OPTIC CABLING, TESTING, AND TERMINATING UNLESS OTHERWISE NOTED.C. WIRELESS ACCESS POINT DEVICES ARE OFOI. EC SHALL PROVIDE ALL CABLING AND BOXES. SEE DETAIL FOR WIRELESS ACCESS

POINTS.

D. UNESS OTHERWISE NOTED, ALL DATA CABLES WITHIN THE SCOPE OF WORK WIN THE SCHOOL SHALL SHALL BE ROUTED TO NEW IDF DATA RACK AND ALL DATA CABLES WITHIN THE GYM SHOULD BE ROUTED TO TBB-G.

E. SPEAKERS, INTERCOM, AND ALL ASSOCIATED EQUIPMENT SHALL BE CFCI. PROVIDE RACEWAYS, PATHWAYS, AND BOXES AS

F. PROVIDE BUSHING ON ALL EMPTY CONDUITS. PROVIDE PULLSTRINGS ON ALL EMPTY CONDUITS.

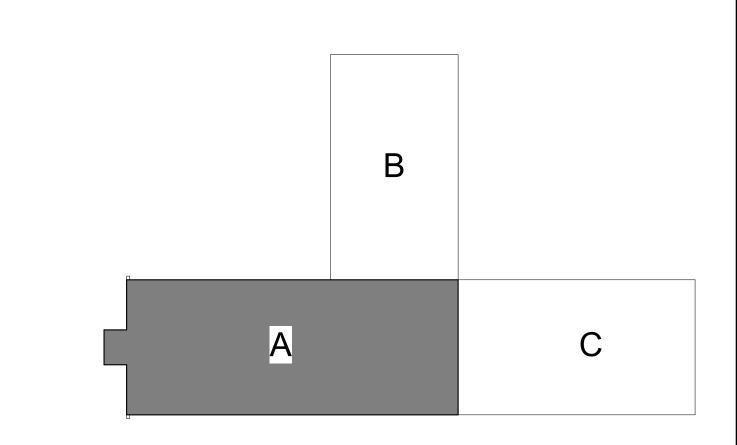
G. LOW VOLTAGE WIRING SHALL NOT BE PERMITTED TO RUN IN WALLS WITHOUT A RACEWAY. A 3/4" MINIMUM EMT CONDUIT SHALL BE PROVIDED TO STUB UP TO THE NEAREST ACCESSIBLE CEILING. PROVIDE J-HOOKS TO SUPPORT ALL LOW VOLTAGE CABLING (EXCPET FIRE ALARM) ABOVE ACCESIBLE CEILING. PROVIDE EMT CONDUIT SLEEVES ABOVE NON-ACCESIBLE CEILINGS AND WITHIN

H. ALL FIRE ALARM SHALL BE IN CONDUIT.

I. SEE ROOF PLANS FOR ALL DUCT DETECTORS FOR HVAC UNIT SHUTDOWN.

AUXILIARY - FLOOR PLAN - PART A KEYNOTES:

- \bigcirc NETWORK BACK TO THE EXISTING BUILDING'S FIRE ALARM CONTROL PANEL. PROVIDE SINGLE MODE FIBER.
- FIRE ALARM WIRING INTERFACE TO LCP OR LIGHTING MODULE (RESPECTIVELY). ALL AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT.
- (3) ADMIN PHONE
- PROVIDE CLOCK WITH DUAL FACE DISPLAY

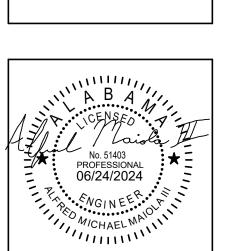


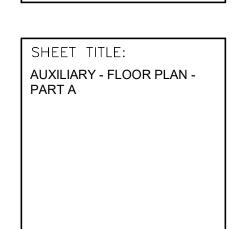


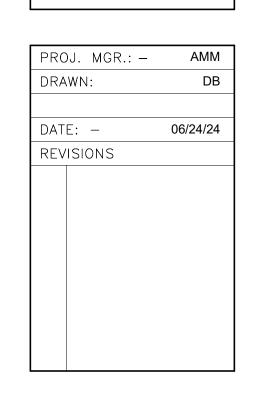


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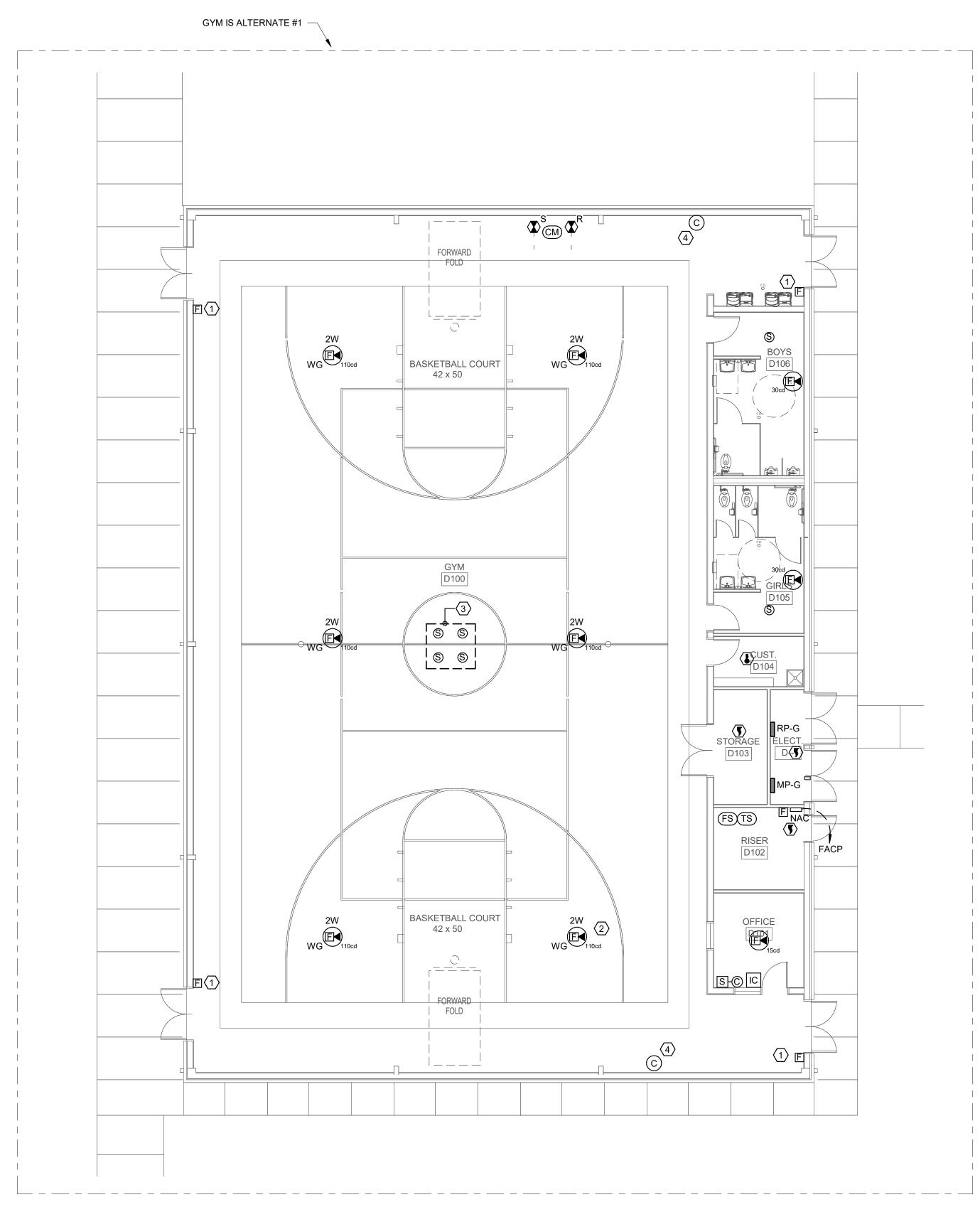






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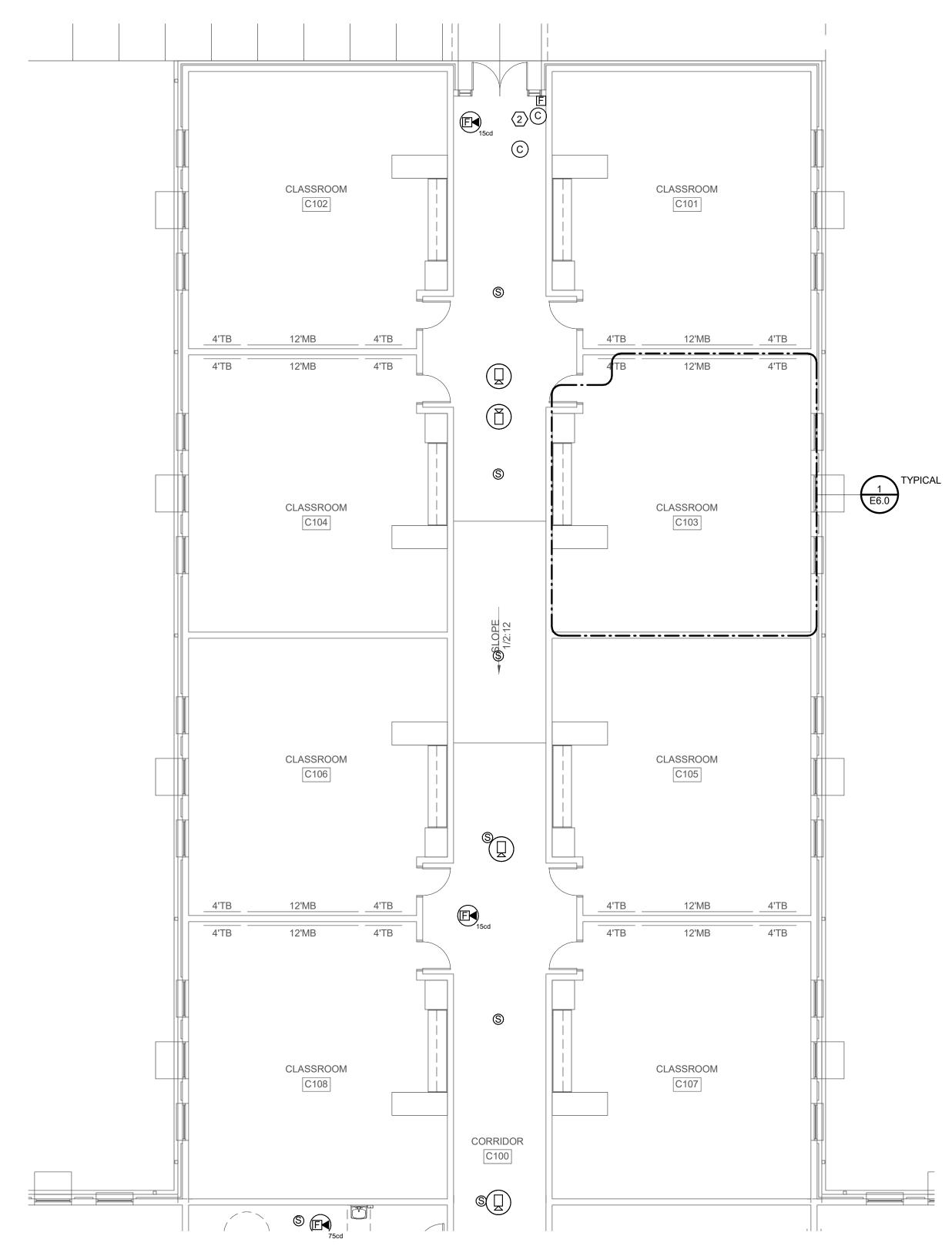






AUXILIARY - GYM FLOOR PLAN KEYNOTES:

- PULL STATION SHALL HAVE A CLEAR, POLYCARBONATE COVER WITH WARING HORN. COVER SHALL BE UL LISTED AND ADA COMPLIANT. TYPICAL.
- 2 PROVIDE WIREGUARD FOR GYM NOTIFICATION DEVICES. TYPICAL.
- (3) PROVIDE (4) SPEAKER HORNS FOR INTERCOMM SYSTEM
- 4 PROVIDE (4) WITH WIRE GUARD

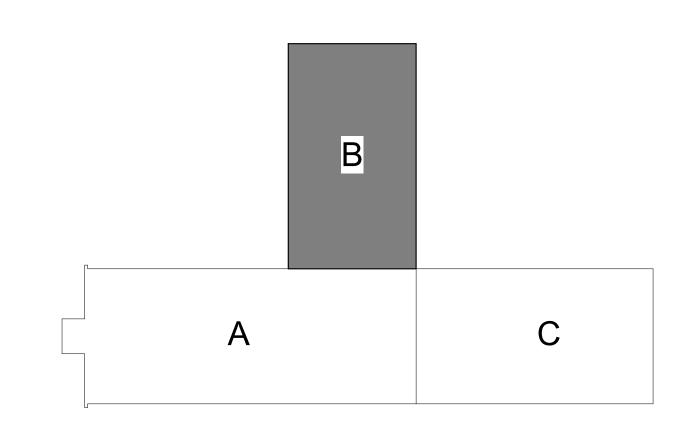


1 AUXILIARY - FLOOR PLAN - PART B

1/8" = 1'-0"

AUXILIARY -FLOOR PLAN -PART B KEYNOTES:

- TOR MAG LOCKS. DOORS SHALL RELEASE UPON LOSS OF POWER AND/OR ACTIVATION OF THE FIRE ALARM SYSTEM.
- 2 PROVIDE CLOCK WITH DUAL FACE DISPLAY



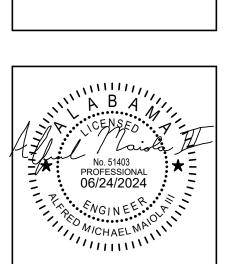


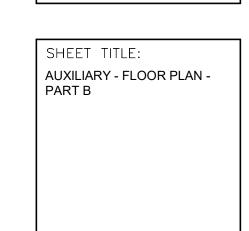
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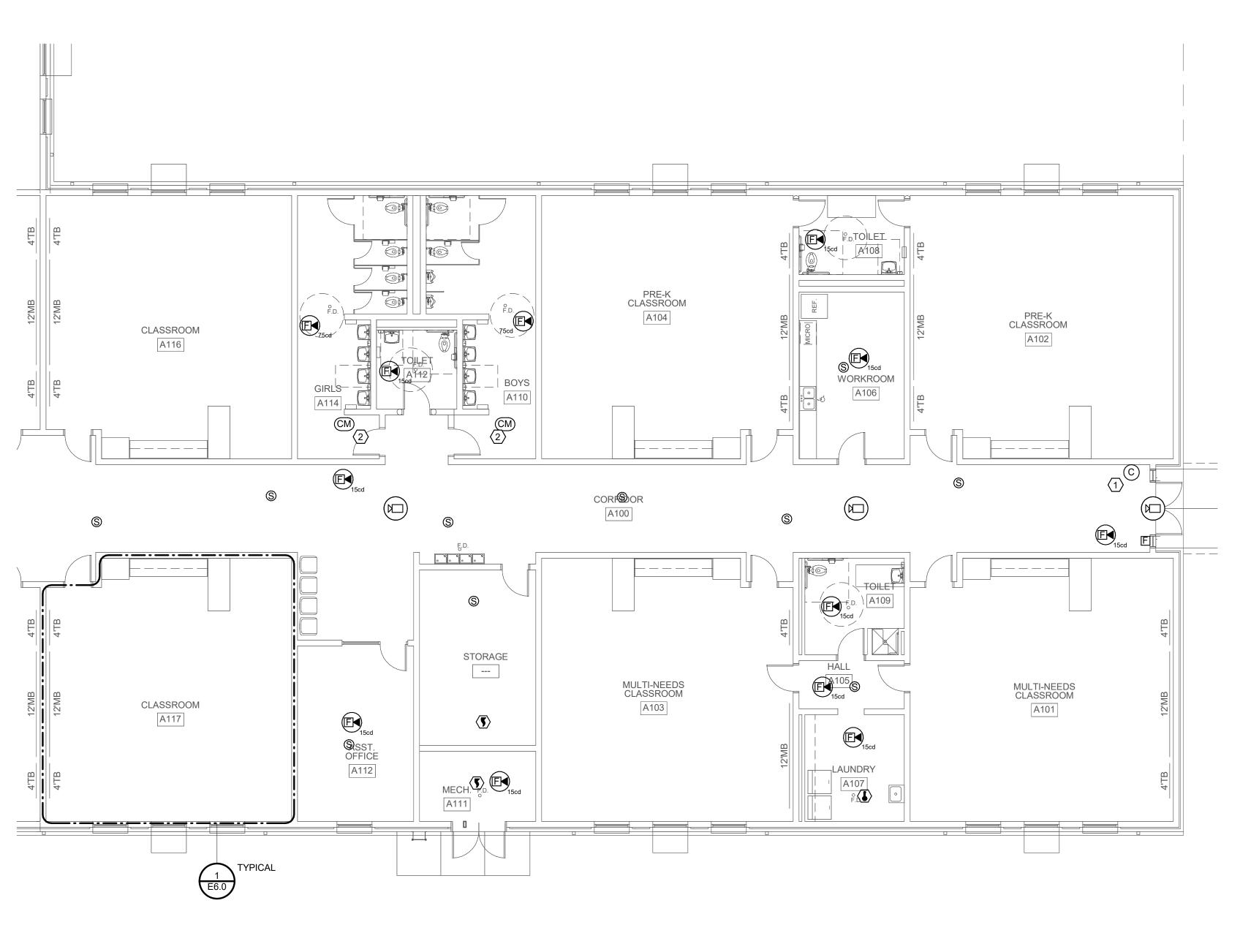
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JOBNO. 24-38

SHEET NO:

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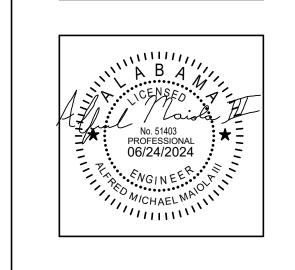
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SHEET KEYNOTES:

1 PROVIDE CLOCK WITH DUAL FACE DISPLAY



SHEET TITLE:
AUXILIARY - FLOOR PLAN PART C

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DRAWN:	DB
DATE: -	06/24/24
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JOBNO. 24-38

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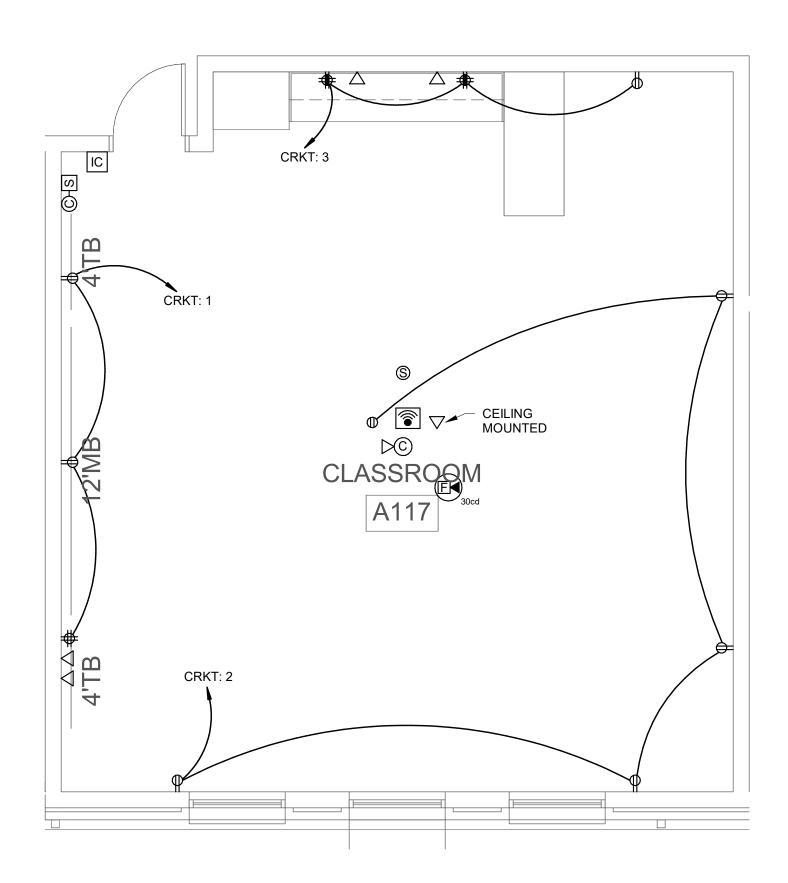
E5.2

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KEY PLAN

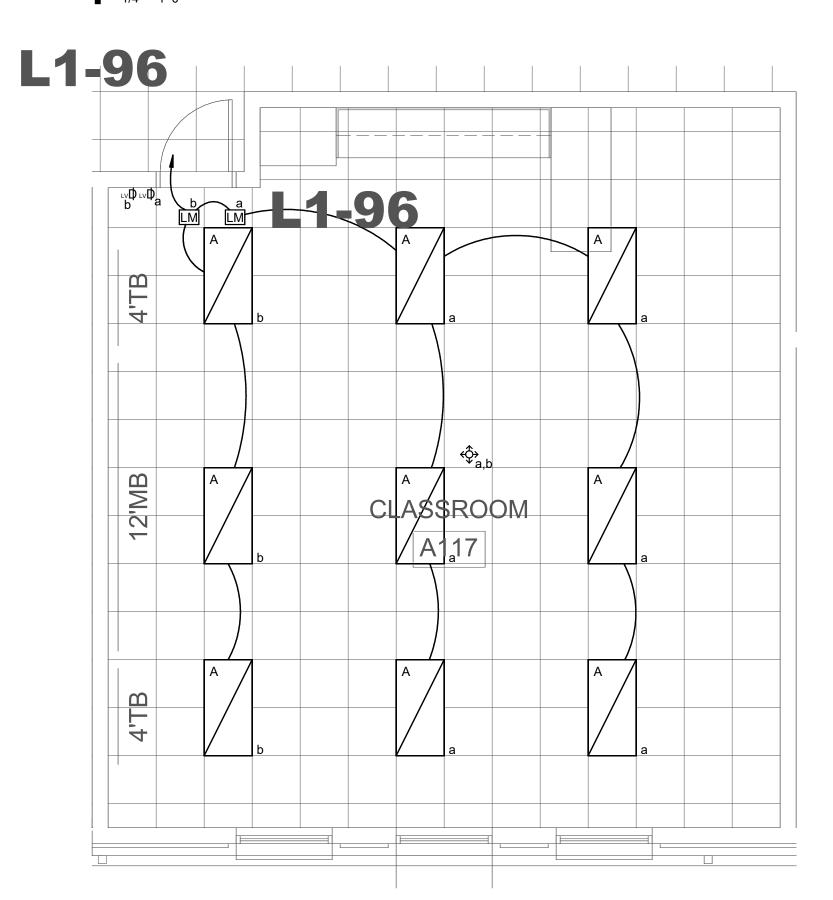
SCALE: N.T.S.





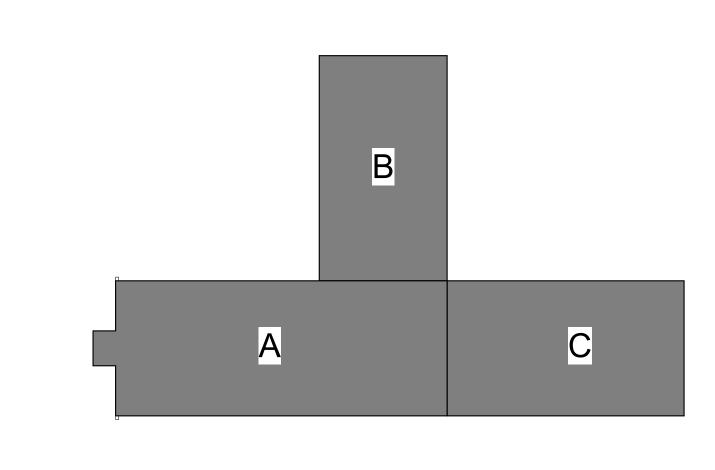
1 POWER AND VOICE/DATA - TYPICAL CLASSROOM PLAN

1/4" = 1'-0"



2 LIGHTING - TYPICAL CLASSROOM PLAN

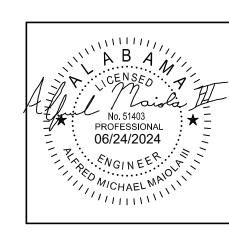
1/4" = 1'-0"

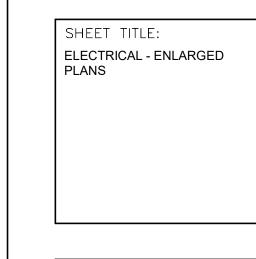




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SHEET NO:

E6.0

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