ST. SIMONS ELEMENTARY NEW CONSTRUCTION

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GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1056
FTE: 600

DATE: 09/26/22
PROJECT NUMBER: 2035

COVER SHEET - PHASE 4

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
A004

STRUCTURAL NOTES

BASIS OF DESIGN:

A. GRAVITY LOADS

1.	ROOF DEAD LOADS	25 PSF
2.	ROOF LIVE LOADS	20 PSF

B. SNOW LOADS (REFERENCE: ASCE 7-16)

GROUND SNOW LOAD, Pg =	5 PSF		(FIGURE 7.2-1)
Ce =	0.90	(TERRAIN CATEGORY C)	(TABLE 7.3-1)
Ct =	1.0		(TABLE 7.3-2)
I =	1.1	(BUILDING CAT. III)	(TABLE 7-4)

C. WIND LOADS (REFERENCE: ASCE 7-16)

BASIC WIND SPEED (3 SECOND GUST), V =	144 MPH	(FIGURE 26.5-1B)
NOMINAL WIND SPEED,	Vasd = 112 MPH	
RISK CATEGORY = III		(TABLE 1.5-1)
EXPOSURE CATEGORY = B		(SECTION 26.7)
INTERNAL PRESSURE COEFFICIENTS: (ENCLOSED BUILDING TYPE)	+0.18,-0.18	(TABLE 26.13-1)

THIS PROJECT IS LOCATED IN A WIND-BORNE DEBRIS REGION.

D. SEISMIC LOADS (REFERENCE: ASCE 7-16)

RISK CATEGORY III		(TABLE 1.5-1)
0.2 SEC SPECTRAL RESPONSE ACCELERATION:	Ss = 0.246	
1.0 SEC SPECTRAL RESPONSE ACCELERATION:	S1 = 0.103	
SPECTRAL RESPONSE ACCELERATION:	Sds = 0.263	
SPECTRAL RESPONSE ACCELERATION:	Sd1 = 0.164	
SITE CLASSIFICATION = D		(SECTION 11.4)
BASIC SEISMIC-FORCE-RESISTING SYSTEM		
LONGITUDINAL:	SHEAR WALLS	
TRANSVERSE:	SHEAR WALLS	
SEISMIC DESIGN CATEGORY = C		(SECTION 11.6)
SEISMIC IMPORTANCE FACTOR = 1.25		(TABLE 1.5-2)
DESIGN BASE SHEAR, V =		(SECTION 12.8.1)
SEISMIC RESPONSE COEFFICIENT, Cs =		(SECTION 12.8.1.1)
RESPONSE MODIFICATION COEFFICIENT, R = 3.5		(TABLE 12.2.1)
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE		(SECTION 12.8)

GENERAL:

1. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
3. WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION. IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
4. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BIDS.
5. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
6. COORDINATE FLOOR SLAB LAYOUT WITH ARCHITECTURAL DRAWINGS FOR EXACT LIMITS AND DEPRESSIONS FOR AREAS TO RECEIVE ARCHITECTURAL FLOOR FINISHES COORDINATE FLOOR JOINTS AT DOORS WITH ARCHITECTURAL DOOR DETAILS. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC.
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL EXTERIOR WALKS, CANOPIES, RAMPS, RAMP WALLS, AND ENTRANCE SLABS NOT DETAILED HEREIN.
8. NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
9. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION ACTIVITIES.
10. THE USE OF REPRODUCTIONS OF CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER, IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
12. CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSE WORK, TEMPORARY BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

SHALLOW FOUNDATIONS:

1. SHALLOW FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF BASED ON THE RECOMMENDATIONS INCLUDED IN GEOTECHNICAL REPORT PREPARED BY WHITAKER LAB & ENGINEERING, PROJECT NO. 05-06-21-5 DATED MAY 6, 2021. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
2. ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 75' O.C. IN WALL FOOTINGS AND THICKENED SLABS TO VERIFY AVAILABILITY OF THE DESIGN PRESSURE INDICATED.
3. ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 95% ASTM D-1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT SPECIFICATIONS.
4. NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL IN ACCORDANCE WITH PROJECT SPECIFICATION REQUIREMENTS.
5. ALL WATER SOFTENED SOILS IN FOUNDATION EXCAVATIONS SHALL BE REMOVED PRIOR TO POURING CONCRETE. FILL OVER-EXCAVATED LIMITS WITH COMPACTED STRUCTURAL FILL OR ADDITIONAL CONCRETE.
6. ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. BAR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
7. ALL FOOTING, PIER AND OTHER FOUNDATION TYPE REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
8. WHERE PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTINGS TO A DEPTH OF 2 FT. BELOW BOTTOM OF WALL FOOTINGS, STEP WALL FOOTING DOWN TO PROVIDE CLEARANCES INDICATED ON TYPICAL DETAIL HEREIN UNLESS OTHERWISE SPECIFIED. COORDINATE LOCATIONS, SIZES, AND INVERTS WITH PLUMBING DRAWINGS.
9. PROVIDE 1/4" PREMOLDED EXPANSION JOINT FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL WALL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.
10. WHERE VERTICAL STEPS IN WALL FOOTINGS SHOWN ON FOUNDATION PLAN, THEY SHALL BE A MAXIMUM 2'-0" HIGH SPACED NO CLOSER THAN 4'-0" O.C.
11. CONSTRUCTION JOINTS IN WALL FOOTINGS SHALL BE FORMED VERTICALLY WITH MINIMUM 2'-0" LAP HORIZONTAL REINFORCING.
12. WHERE FINISHED GRADES DIFFER ON OPPOSITE SIDES OF FOUNDATION WALLS, PROVIDE TEMPORARY BRACING AT TOP OF WALL TO PREVENT LATERAL MOVEMENT UNTIL ALL ADJACENT FILLING, COMPACTION, FLOOR SLABS, WALLS, AND FRAMING AT NEXT LEVEL IS COMPLETED.

CONCRETE:

1. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES OVER.
2. UNLESS SPECIFIED OTHERWISE, CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:
   A. ALL FOOTINGS AND OTHER CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
      #5 BAR AND SMALLER: 1 1/2"
      #6 BAR AND LARGER: 2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      1. SLABS, WALLS, JOISTS:
         #11 BAR AND SMALLER: 3/4"
         #14 AND #18 BARS: 1 1/2"
      2. BEAMS, COLUMNS:
         PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1 1/2"
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
4. PROVIDE DOWELS OF THE SAME SIZE AND NUMBER AS THE VERTICAL WALL AND COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
5. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED ON THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCING MARKED CONTINUOUS MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
7. PIPES OR DUCTS SHALL NOT EXCEED 1/3 SLAB TO WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
8. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR OTHER INSERTS REQUIRED TO BE ENCASED IN CONCRETE AND FOR EXACT LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
9. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
10. DEFECTIVE AREAS IN CONCRETE WORK INCLUDING, BUT NOT LIMITED TO, HONEYCOMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.10" SHALL BE REPAIRED BY THE CONTRACTOR. THE EXTENT OF THE DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
11. NO REINFORCING SHALL BE CUT IN FIELD. ADDITIONAL REINFORCING AND THAT QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENING AS DETAILED.
12. HOOKS IN REINFORCING ARE IN ADDITION TO LINKS SHOWN.
13. UNLESS NOTED OTHERWISE, DETAILING AND FABRICATION OF REINFORCING STEEL SHALL FOLLOW ACI MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES (ACI 315).
14. REINFORCING SHALL BE SUPPORTED IN FORMS AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI PLACING REINFORCING BARS, UNLESS NOTED OTHERWISE.
15. CONCRETE WALLS AND ADJACENT CONCRETE COLUMNS SHALL BE CAST MONOLITHICALLY. TOP OF ALL COLUMN LIFTS TO BE FORMED AND POURED TO A LEVEL 1" BELOW SUPPORTED SLAB OF BEAM OVER. REMAINDER OF COLUMNS TO BE CAST WITH SUPPORTED STRUCTURE OVER.

STEEL FRAMING:

1. ALL WIDE FLANGE STEEL SHAPES INCLUDING WTS SHALL BE FABRICATED USING ASTM A992 GRADE 50 STRUCTURAL STEEL MATERIAL. ALL OTHER SHAPES, PLATES, BARS, ETC., SHALL BE ASTM A36 OR AS INDICATED IN SPECIFICATIONS.
2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER (MIN.) ASTM F3125-15 GRADE A325X HIGH STRENGTH BOLTS INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS.
3. STEEL FRAMING, INCLUDING BOLTED AND WELDED CONNECTIONS, BRACING, AND ANCHORAGES SHALL BE COMPLETE AND PLUMB PRIOR TO PLACEMENT OF DECKS.
4. TOP OF STEEL ELEVATIONS SHOWN ON FRAMING PLANS ARE MEASURED FROM FINISHED FIRST FLOOR UNLESS NOTED.
5. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN OF AISC 14TH EDITION.
6. ALL FABRICATIONS SHALL COMPLY WITH CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITIONS, AS PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
7. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO REPRESENT ALL STEEL REQUIRED ON THIS PROJECT. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STRUCTURAL STEEL FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS INCLUDING MISCELLANEOUS ANGLE FRAMING, BRACING, ETC.
8. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. WHERE WELDING IS USED ON HOT-DIPPED GALVANIZED FRAMING MEMBERS, WELDS AND ADJACENT AREAS SHALL BE COATED WITH A COLD GALVANIZING COMPOUND. CONTRACTOR TO SUBMIT DATA SHEET OF MATERIAL TO BE USED FOR ARCHITECTS REVIEW.
9. DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT PRIOR REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.
10. CONTRACTOR SHALL COORDINATE LOCATIONS, SIZE AND NUMBER OF ALL ROOF FRAMES FOR MECHANICAL ROOF AND FLOOR PENETRATIONS WITH MECHANICAL DRAWINGS AND EQUIPMENT FURNISHED. LOCATIONS AND SIZES OF FRAME OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC ONLY.
11. NO SHOP SPLICE OR OTHER CONNECTION WILL BE PERMITTED UNLESS THAT SPLICE OR CONNECTION IS SHOWN ON THE SHOP DRAWINGS AND REVIEWED BY THE ENGINEER.
12. ALL FASTENERS SHALL CONSIST OF ONE BOLT, ONE LOAD INDICATOR WASHER, ONE HARDENED WASHER, AND ONE NUT. NO SLOTTED HOLES OR ARE ALLOWED UNLESS INDICATED ON SECTIONS AND DETAILS.
13. AFTER ALL FIELD WELDING IS COMPLETED, WELDS SHALL BE CLEANED OF ALL WELDING SPOILS AND RE-PRIMED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
14. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. PROOF OF CERTIFICATION FOR EACH WELDER PERFORMING FIELD WELDING SHALL BE AVAILABLE AT THE JOB SITE. ALL WELDERS SHALL HAVE BEEN CERTIFIED WITHIN THE PREVIOUS 12 MONTHS IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.

STEEL COLUMNS:

1. STEEL COLUMN BASES ARE DESIGNED AS UN-RESTRAINED; THEREFORE COLUMNS MUST BE KEPT BRACED UNTIL ALL HORIZONTAL FRAMING HAS BEEN INSTALLED.
2. COLUMN ANCHOR RODS SHALL BE INSTALLED AND TIED IN PLACE PRIOR TO POURING CONCRETE. ANCHOR RODS SHALL NOT BE REPAIRED, REPLACED, OR MODIFIED BY THE CONTRACTOR WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
3. WHERE JOISTS ARE SHOWN AT COLUMN LINES, JOISTS BETWEEN COLUMN LINES SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

STEEL JOISTS:

1. ALL STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED, ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, LATEST EDITION. ALL JOISTS SHALL BE DESIGNED BY THE JOIST MANUFACTURER TO SUPPORT THE TOTAL LOAD-CARRYING CAPACITY SHOWN IN THE STEEL JOIST INSTITUTE TABLES FOR THE JOIST DEPTH, CHORD DESIGNATIONS, AND SPAN LENGTH INDICATED ON THE CONTRACT DRAWINGS.
2. ALL STEEL ROOF JOISTS AND BRIDGING SHALL BE DESIGNED TO INCLUDE LOAD COMBINATIONS DUE TO WIND USING UPLIFT PRESSURES SHOWN IN SCHEDULES AND A SERVICE ROOF DEAD LOAD OF 10 PSF MULTIPLIED BY THE APPROPRIATE LOAD COMBINATION FACTORS. A 1/3 INCREASE IN ALLOWABLE STEEL STRESSES SHALL NOT BE PERMITTED FOR WIND LOAD COMBINATIONS. STEEL JOIST MANUFACTURER TO PROVIDE ADDITIONAL BRIDGING AT ENDS OF BAR JOIST AS REQUIRED FOR WIND UPLIFT LOAD COMBINATIONS. JOIST SIZES SHOWN DO NOT INCLUDED ANY CONTRIBUTIONS FROM WIND EFFECTS.
3. NUMBER AND LOCATION OF BRIDGING LINES SHOWN ON CONTRACT DRAWINGS IS MINIMUM. STEEL JOIST MANUFACTURER SHALL PROVIDE ADDITIONAL BRIDGING ROWS AS REQUIRED TO MEET STEEL JOIST INSTITUTE REQUIREMENTS AND LATEST OSHA REGULATIONS.
4. STEEL JOIST MANUFACTURER SHALL HAVE SOLE RESPONSIBILITY FOR FABRICATION, AND DETAILING OF ALL STEEL JOIST COMPONENTS TO MEET LATEST OSHA REQUIREMENTS.
5. THE JOIST MANUFACTURER SHALL SUBMIT CALCULATIONS FOR ALL SPECIAL JOISTS TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. THESE CALCULATIONS SHALL BEAR THE SIGNED AND DATED SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE JOISTS ARE MANUFACTURED.
6. STEEL JOISTS SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
7. NO PIPING, DUCTS, CONDUITS OR ANY OTHER MECHANICAL OR ELECTRICAL COMPONENT SHALL BE SUSPENDED FROM JOIST BRIDGING.
8. STEEL JOISTS WHICH ARE SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING SHALL BE UNPAINTED AND MEET THE REQUIREMENTS FOR MINIMUM CHORD AND WEB MEMBERS REQUIRED BY THE U.L. DESIGN NUMBER REQUIREMENTS SPECIFIED BY THE ARCHITECT.

ROOF DECKS:

RD1 MINIMUM 2" THICK LIGHTWEIGHT INSULATING CONCRETE FILL OVER 1" (MINIMUM) INSULATING BOARD ON $1\frac{1}{2}$"x22 GAUGE (Fy = 80 KSI) GALVANIZED(G90) VENTED STEEL ROOF DECKS, MINIMUM 3 CONTINUOUS SPANS. SECURE DECK TO SUPPORTS (INCLUDING SUPPORTS AROUND MECHANICAL OPENINGS) IN ACCORDANCE WITH METAL DECK ATTACHMENT DETAIL ON SHEET S502. DO NOT USE SLOTTED TYPE DECK FORMS IN AREAS WHERE BOTTOM OF DECK IS EXPOSED TO VIEW.

RD2 3" CEMENTITIOUS WOOD FIBER DECKING- SEE SPECIFICATIONS

ROOF OPENINGS:

1. GENERAL:
   A. OPENINGS UP TO 8": ADD 20 GA. GALVANIZED SHEET 12" LARGER THAN OPENING. ATTACH WITH STAINLESS STEEL SHEET METAL SCREWS MAX. 6" O.C. ON FOUR SIDES.
   B. OPENINGS OVER 8": SEE TYPICAL DETAIL.
2. ROOF DRAIN: SEE TYPICAL DETAIL.
3. ARRANGEMENT, NUMBERING, AND LOCATION OF MECHANICAL OPENINGS ARE APPROX. AND SCHEMATIC AND SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING DRAWINGS TO OBTAIN EXACT CONFIGURATIONS, SIZES, AND LOCATIONS.

CONCRETE MASONRY:

1. REINFORCED WALLS, PIERS, AND PILASTERS, SHALL BE FILLED IN MAXIMUM 8'-0" LIFTS. FILL SHALL BE MECHANICALLY MIXED (ASTM C476) GROUT WITH MAXIMUM 1/2" DIA. AGGREGATE AND SHALL DEVELOP NOT LESS THAN 2500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE fm = 1500 PSI.
3. ALL REINFORCING SHALL BE TIED IN CMU CELLS IN THE LOCATION INDICATED ON THE STRUCTURAL DETAILS AS REQUIRED TO PREVENT DISPLACEMENT OF REINFORCING DURING PLACEMENT OF GROUT.
4. VERTICAL REINFORCING SHALL BE LAPPED AT DOWELS AND SPLICES A MINIMUM OF 48 DIAMETERS BUT NOT LESS THAN 2'-6".
5. PROVIDE A 4"X4" CLEAN-OUT OPENING AT THE BOTTOM COURSE OF EACH VERTICAL LIFT AT ALL REINFORCED CELLS EXCEPT WHERE OPENING CANNOT BE CONCEALED BY BRICK OR OTHER WALL VENEERS OR FINISHES. PRIOR TO FILLING CELLS WITH GROUT, CMU REINFORCED CELLS SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL DEBRIS AND MORTAR PROJECTIONS. SEAL OPENING PRIOR TO FILLING CELL WITH GROUT.
6. WHERE REINFORCED PIERS (TYPES P1, P2, P3, ETC.) ARE INDICATED ON FOUNDATION PLAN, THEY SHALL BE DISCONTINUOUS ABOVE BEARING OF LINTEL EXCEPT AS FOLLOWS:
   OPENINGS 4'-0" TO 8'-0": CONTINUE JAMB REINFORCING 24" ABOVE OPENING
   OPENINGS OVER 8'-0": CONTINUE JAMB REINFORCING TO TOP OF WALL
7. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1-99) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.
8. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT. ALL REINFORCING DOWELS FROM FOUNDATIONS SHALL MATCH VERTICAL REINFORCING, SIZE AND SPACING INDICATED FOR CONSTRUCTION OF WALL OVER. ALL DOWELS SHALL HAVE STANDARD 90 HOOKS (MINIMUM 6"). THE #2 SMOOTH TIES SHOWN IN THE REINFORCED MASONRY PIER DETAILS SHALL BE 1/4" DIAMETER PLAIN STEEL WIRE (W5 WIRE SIZE NUMBER) PER ASTM A 1064 WITH YIELD STRENGTH OF 60 KSI.
9. UNLESS INDICATED OTHERWISE IN SPECIFICATIONS OR ON ARCHITECTURAL DRAWINGS, PROVIDE 9 GA. HORIZONTAL TRUSS TYPE JOINT REINFORCING AT 16" O.C. IN ALL WALLS. DISCONTINUE JOINT REINFORCING AT CONTROL JOINTS.
10. PROVIDE CMU CONTROL JOINTS WHERE INDICATED ON ARCHITECTURAL DRAWINGS WITH ADDITIONAL JOINTS SUCH THAT THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING OF 3 TIMES THE WALL HEIGHT (30'-0" MAX.).

MECHANICAL ANCHORS

SEE DETAILS FOR NUMBER, DIAMETER, AND EMBEDMENT.

1. ANCHORING INTO CMU:
   ALL ANCHORS SHALL BE INSTALLED IN GROUTED FILLED CELLS. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
   A. SIMPSON STRONG-TIE STRONG BOLT 2" (IAPMO ES ER-240)
   B. HILTI KWIK BOLT 3 (ICC-ES ESR 1385)
   C. DeWALT FASTENING POWER STUD+ SD1 (ICC-ES ESR 2966)
2. ANCHORING INTO CONCRETE:
   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:
   A. SIMPSON STRONG-TIE STRONG BOLT 2" (ICC-ES ESR-3047)
   B. HILTI KWIK BOLT TZ (ICC-ES ESR 1917)
   C. DeWALT FASTENING POWER STUD+ SD1 (ICC-ES ESR 2818)

SPECIAL STRUCTURAL INSPECTIONS:

A. SPECIAL INSPECTIONS
   1. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC 2018 BUILDING CODE.
   2. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OF RECORD (EOR) WHICH MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2018 SECTION 1704. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
   3. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
   4. THE COSTS OF THE SPECIAL INSPECTORS SERVICES SHALL BE PAID FOR BY THE OWNER. COSTS OF INSPECTION SERVICES WHICH ARE EXEMPTED UNDER CHAPTER 17 AND SPECIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE PAID FOR BY THE CONTRACTOR.

B. REPORTS
   1. SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE INSPECTION.
   2. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
   3. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.

C. REQUIRED SPECIAL INSPECTIONS

IBC SECTION	DESCRIPTION OF WORK	SPECIAL INSPECTION REQUIRED YES	NO	REMARKS
1704.2.5	INSPECTION OF FABRICATORS	X		1
1705.2	STEEL CONSTRUCTION	X		2
1705.3	CONCRETE CONSTRUCTION	X		3
1705.4	MASONRY CONSTRUCTION	X		4
1705.5	WOOD CONSTRUCTION	X		
1705.6	SOILS	X		5
1705.7	DRIVEN DEEP FOUNDATION		X	
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS	X		
1705.9	HELICAL PILE FOUNDATIONS		X	
1705.10	WIND RESISTANCE	X		
1705.11	SEISMIC RESISTANCE	X		
1705.12	TESTING AND QUALIFICATIONS FOR SEISMIC RESISTANCE	X		
1705.13	SPRAYED FIRE-RESISTANT MATERIALS		X	
1705.14	MASTIC AND INTUMESCENT COATINGS		X	
1705.15	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)		X	

REMARKS:
1. WHERE FABRICATION OF STRUCTURAL LOAD BEARING ELEMENTS (I.E. JOISTS) ARE BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTIONS ARE REQUIRED.
2. STEEL SPECIAL INSPECTION:
   CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.2,QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360 AND TABLE 1705.2.2.
3. CONCRETE SPECIAL INSPECTION:
   CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.
4. MASONRY SPECIAL INSPECTION:
   CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.4 AND QUALITY ASSURANCE PROGRAM REQUIREMENTS OF ACI530/ASCE 5
5. SOILS SPECIAL INSPECTION:
   INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.6 AND TABLE 1705.6.

D. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.11.

F. STRUCTURAL TESTING FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.12.

STRUCTURAL LEGEND

SYMBOLS

FOOTING
UNREINFORCED CONCRETE MASONRY
REINFORCED CONCRETE MASONRY
CONCRETE
BOND BEAM
P2, P3 — REINF. MASONRY PIERS
DROP SLAB TO RECEIVE FLOOR FINISH
THICKENED SLAB
FJ — FLOOR JOINT
WFJ — WALL FLOOR JOINT
SJ — SAWN JOINT
TJ — 1" DEEP TOOLED JOINT
CONCRETE SLAB TURNDOWN
S 2" — SLOPE (DIRECTION AND DROP)
VERTICAL STEP IN WALL FOOTING
T.O.S. 12'-6" — TOP OF STEEL ELEVATION
(96.50) — TOP OF FOOTING ELEVATION
R — ADD #4x4'-0" IN CENTERLINE OF SLAB
HSB — HIGH STRENGTH BOLT

ABBREVIATIONS

W/	WITH
DBL.	DOUBLE
BOT.	BOTTOM
DJ	DOUBLE JOIST
SIM	SIMILAR
T/O	THROUGHOUT
U.N.	UNLESS NOTED
P.E.J.	PRE-MOLDED EXPANSION JOINT
GA.	GAUGE
E.W.	EACH WAY
O.C.	ON CENTER
CL	CLEARANCE
FD	FLOOR DRAIN
LLV	LONG LEG VERTICAL
SLV	SHORT LEG VERTICAL
EJ	EXPANSION JOINT
MBM	METAL BUILDING MANUFACTURER
MBP	METAL BUILDING PURLINS
O.H.	OPPOSITE HAND
PB	PARALAM BEAM
ML	MICROLAM BEAM
RS	ROUGH SAWN
P.T.	PRESSURE TREATED
P.E.	PRE-ENGINEERED

STRUCTURAL SHEET INDEX

GEORGIA REGISTERED No. 000432 STRUCTURAL ENGINEER W. HUNTER SAUSSY, III
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GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1056
FTE: 600

STRUCTURAL NOTES

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

NO.	REVISION / SUBMISSIONS	DATE
6	PHASE 4	6/30/22

SAUSSY ENGINEERING
400 Johnny Mercer Boulevard • Suite E
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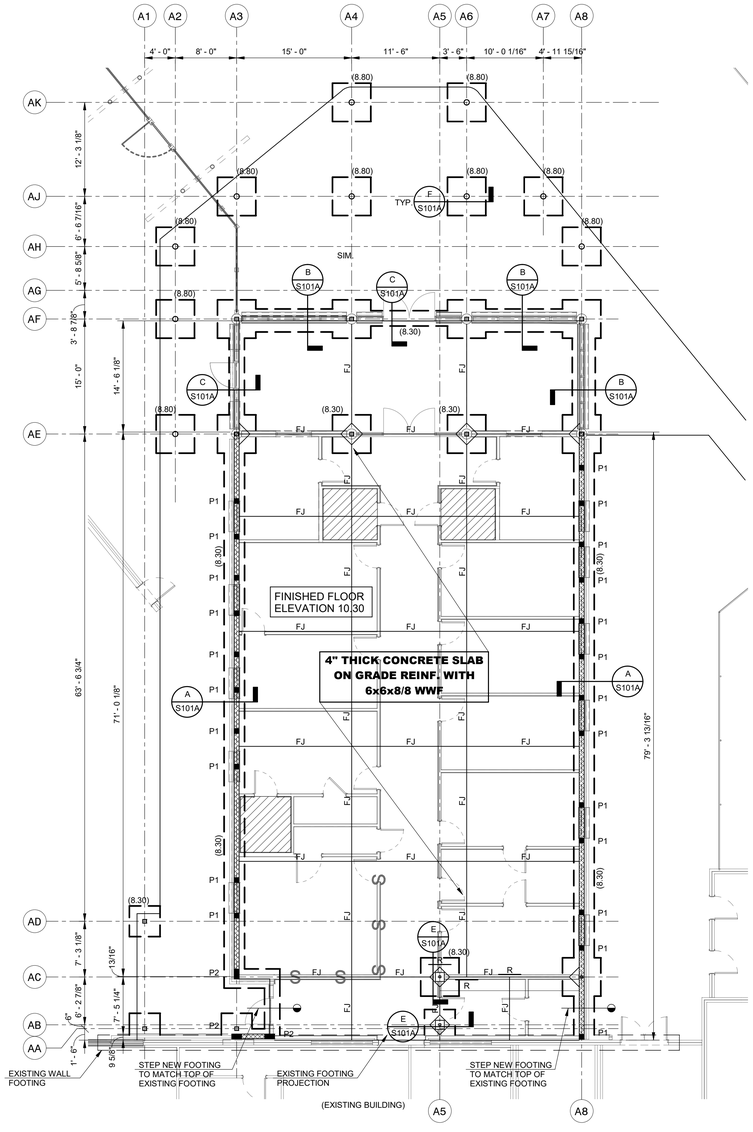
Phone: (912) 898-8255 • Fax: (912) 898-1882

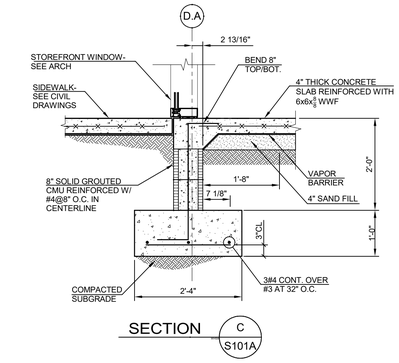
PROJECT # 21026 - PLOT DATE: S001.dwg 7/8/22 4:08 pm

SHEET:
S001

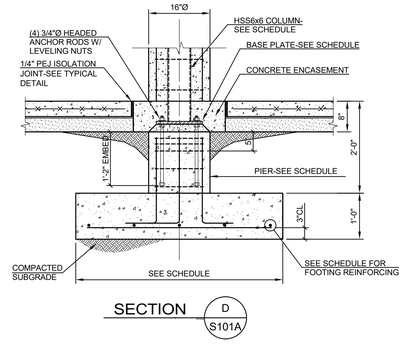


FOUNDATION PLAN - ADMINISTRATION ADDITION

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



SECTION C S101A



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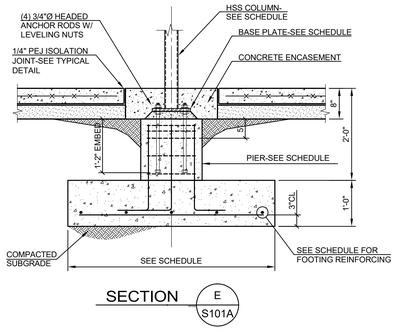

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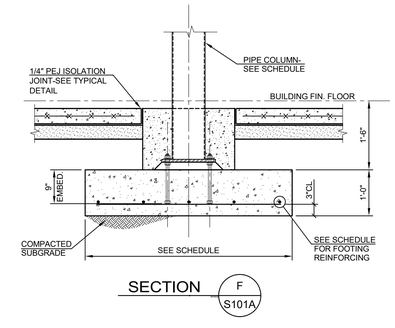
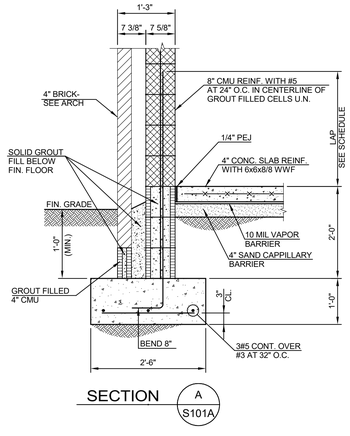
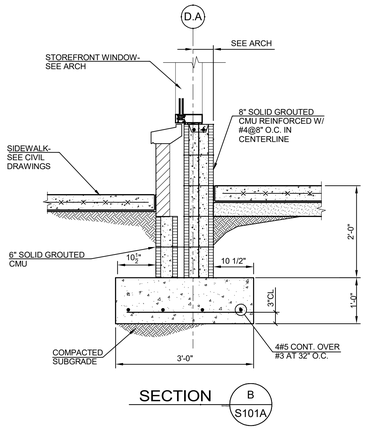


SECTION F S101A



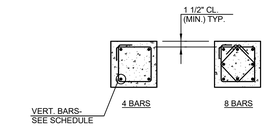
SECTION A S101A



SECTION B S101A

COLUMN AND FOUNDATION SCHEDULE-ADMINISTRATION BLDG

MARK	LOAD (KIPS)	COLUMN		PIER			FOOTING			NOTES:
		SIZE	BASE PLATE	SIZE	VERT. REINF.	SPACG. #3 TIES	SIZE	DEPTH	REINF. E.W.	
AA-A1	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	4'-0"x4'-0"	12"	5#4	
AA-A3	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	4'-0"x4'-0"	12"	5#4	
AB-A5	-	HSS3 1/2 x 1/4	10"x3/4"x10"	14"x14"	4#6	6"	4'-0"x4'-0"	12"	5#4	
AC-A5	-	HSS3 1/2 x 1/4	10"x3/4"x10"	14"x14"	4#6	6"	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AC-A8	-	HSS3 1/2 x 1/4	10"x3/4"x10"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AD-A1	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	4'-0"x4'-0"	12"	5#4	
AE-A2	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AE-A3		HSS6x6x3/8	12"x3/4"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AE-A4	-	HSS6x6x3/8	12"x3/4"x12"	16"x16"	8#5	8"	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AE-A6	-	HSS6x6x3/8	12"x3/4"x12"	16"x16"	8#5	8"	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AE-A8	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AF-A2	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AF-A3	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AF-A4	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AF-A6	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AF-A8	-	HSS6x6x3/8	12"x3/4"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AH-A2	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AH-A8	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AJ-A3	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AJ-A4	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AJ-A6	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AJ-A7	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AK-A4	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	
AK-A6	-	Pipe8STD	12"x1"x12"	-	-	-	5'-0"x5'-0"	16"	7#5 TOP/BOT.	



CONCRETE PIER DETAILS

NOTES:
1. SEE SCHEDULE & SECTIONS FOR PIER SIZE & REINFORCING.
2. TERMINATE VERTICAL BARS IN FOOTING WITH 90° HOOK (12) BAR DIAMETERS (MIN).
3. ALTERNATE LOCATION OF 90° AND 135° BENDS.
4. ALL PIERS TO BE BOARD FORMED.
5. TOP OF PIERS SHALL BE 8" BELOW FINISHED FLOOR U.N.
6. TOP OF VERTICAL DOWELS SHALL EXTEND TO 1 1/2" FROM TOP OF PIER.
7. PROVIDE 3 SCHEDULE TIES IN TOP 5" OF ALL PIERS.

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PROJECT NO. 21026

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GLYNN COUNTY BOARD OF EDUCATION

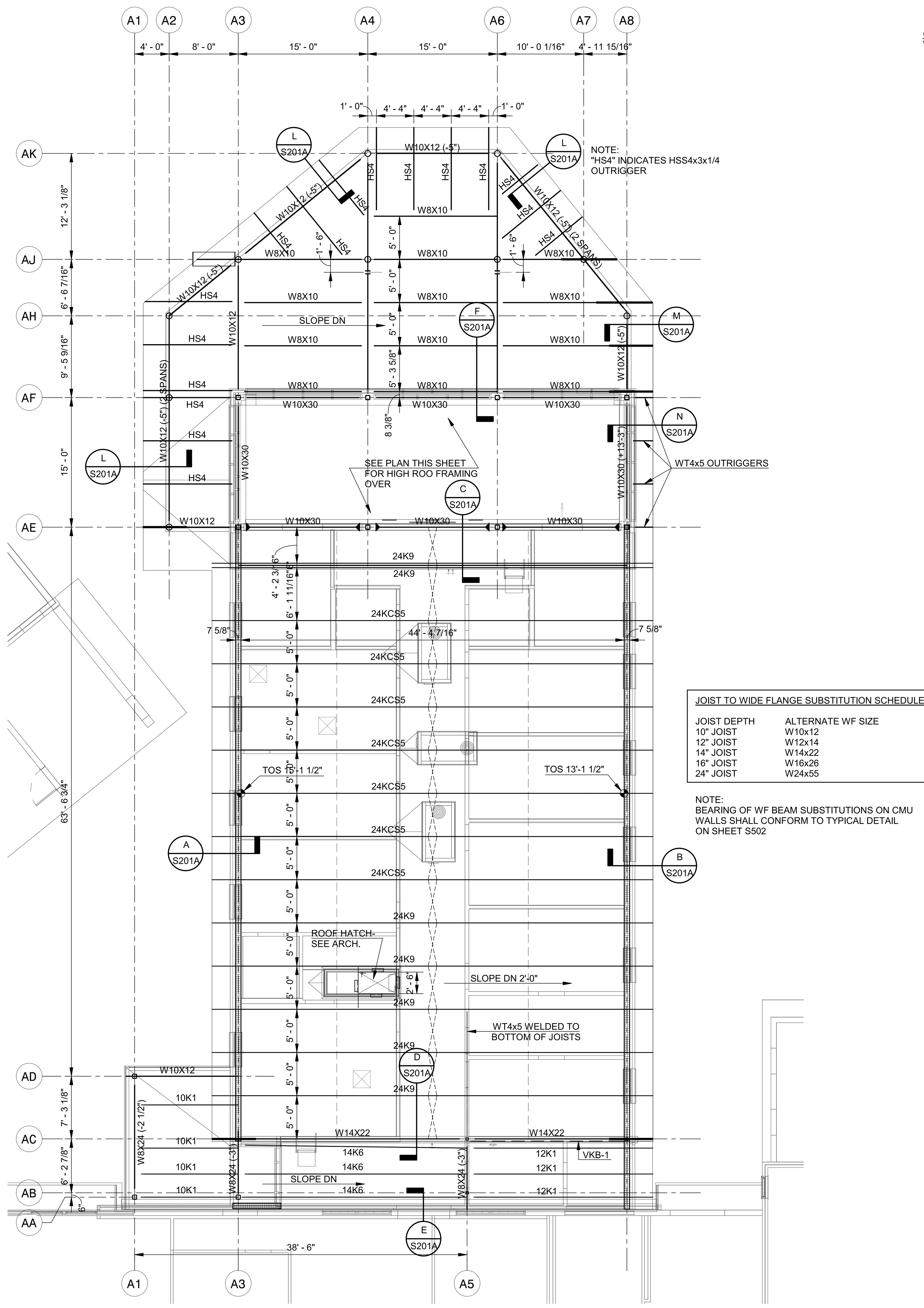
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1656
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

FOUNDATION PLAN - ADMINISTRATION ADDITION

NO.	REVISION / SUBMISSIONS	DATE
5	Phase 4	6/30/22

SHEET:
S101A



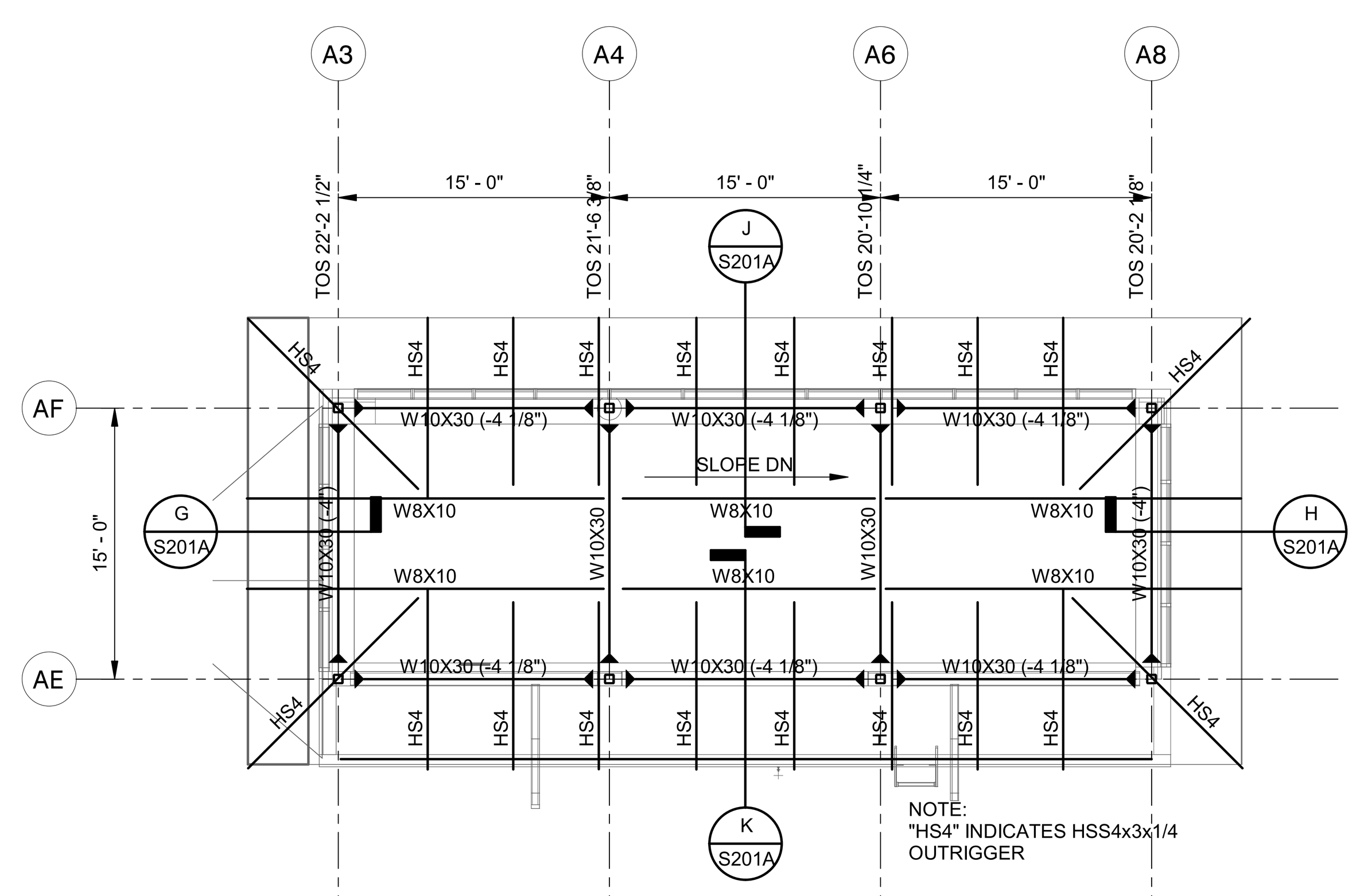
ROOF FRAMING PLAN - ADMINISTRATION ADDITION

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

JOIST DEPTH	ALTERNATE WF SIZE
10" JOIST	W10x12
12" JOIST	W12x14
14" JOIST	W14x22
16" JOIST	W16x26
24" JOIST	W24x55

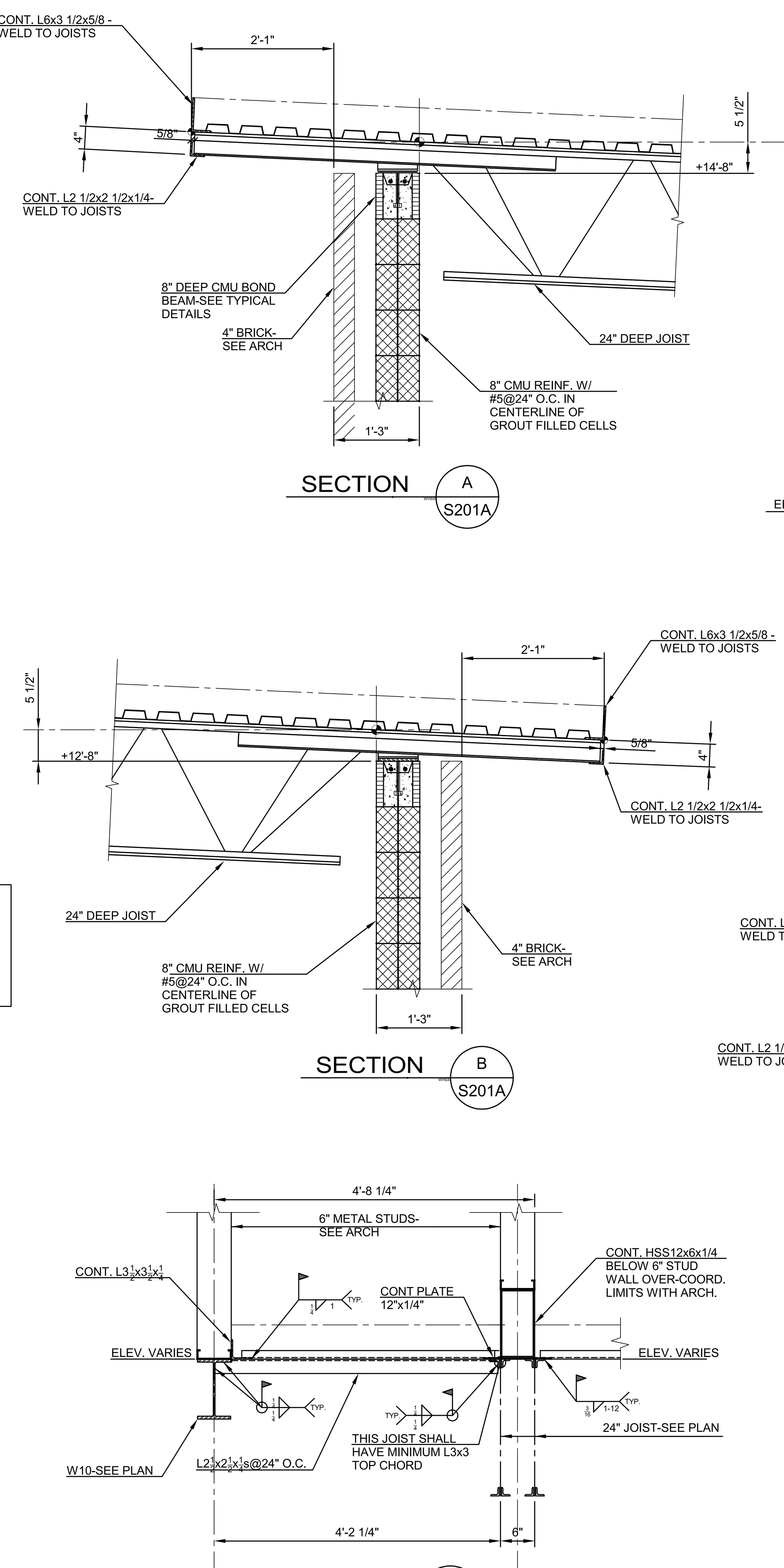
JOIST TO WIDE FLANGE SUBSTITUTION SCHEDULE

NOTE:
BEARING OF WF BEAM SUBSTITUTIONS ON CMU WALLS SHALL CONFORM TO TYPICAL DETAIL ON SHEET S502



HIGH LOBBY ROOF FRAMING PLAN - ADMINISTRATION ADDITION

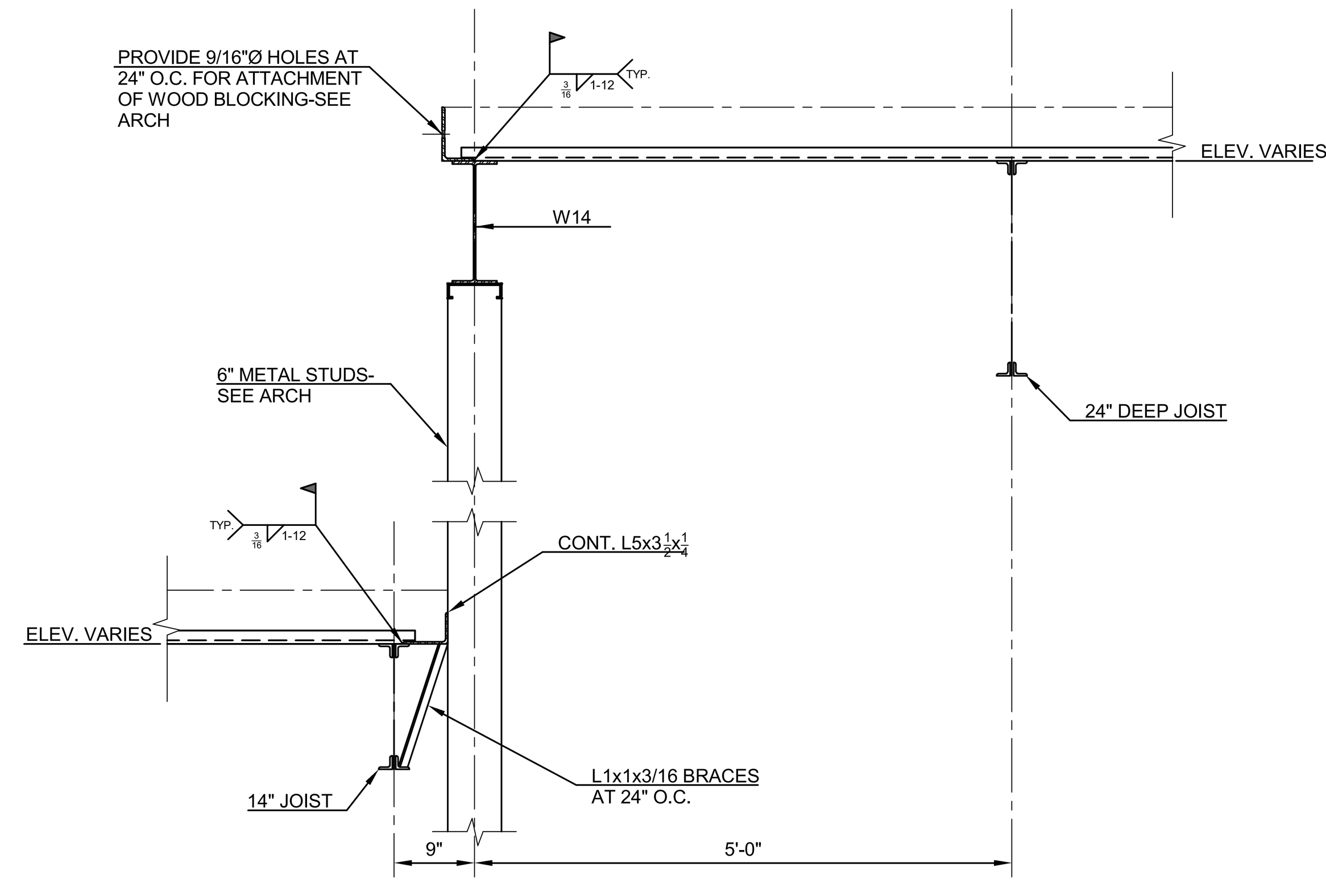
SCALE: 1/8" = 1'-0"



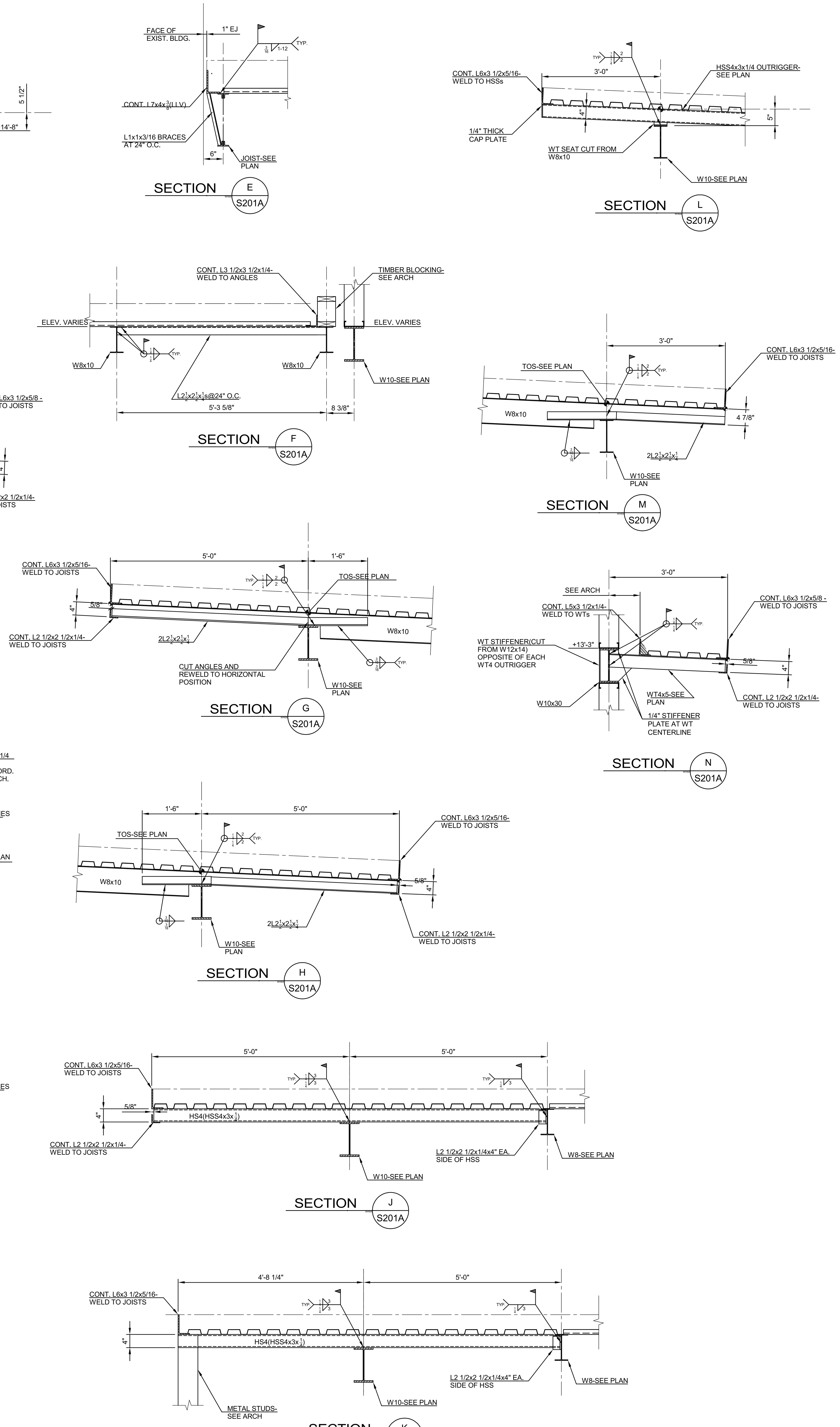
SECTION A S201A

SECTION B S201A

SECTION C S201A



SECTION D S201A



SECTION E S201A

SECTION F S201A

SECTION G S201A

SECTION H S201A

SECTION J S201A

SECTION K S201A

SECTION L S201A

SECTION M S201A

SECTION N S201A

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
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ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1056
FTE: 600

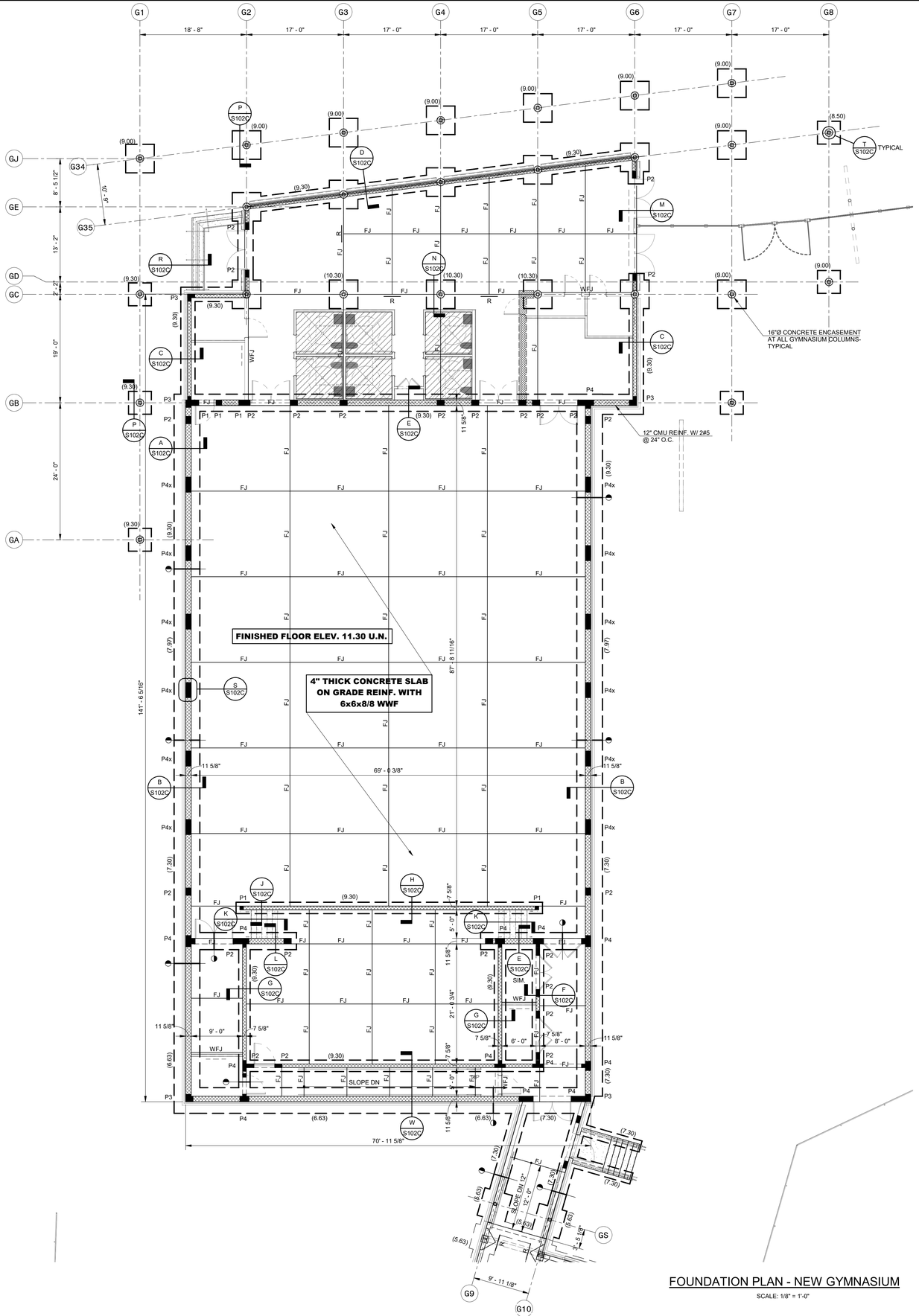
ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

ROOF FRAMING PLAN - ADMINISTRATION ADDITION

NO.	REVISION / SUBMISSIONS	DATE
6	Phase 4	6/30/22

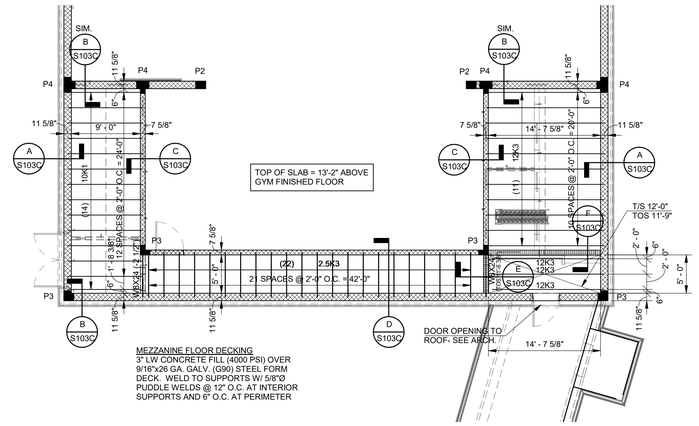
SAUSSY ENGINEERING
400 Johnny Mercer Boulevard • Suite E
P.O. Box 30597 • Savannah, Georgia 31410
Phone: (912) 898-8255 • Fax: (912) 898-1882
PROJECT NO. 21026

SHEET:
S201A



FOUNDATION PLAN - NEW GYMNASIUM

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



MEZZANINE FLOOR DECKING
3" LW CONCRETE FILL (4000 PSI) OVER 9/16"x26 GA. GALV. (G90) STEEL FORM DECK. WELD TO SUPPORTS W/ 5/8Ø PUDDLE WELDS @ 12" O.C. AT INTERIOR SUPPORTS AND 6" O.C. AT PERIMETER

MEZZANINE FRAMING PLAN

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

COLUMN AND FOUNDATION SCHEDULE-GYMNASIUM

MARK	LOAD (KIPS)	COLUMN		FOOTING			
		SIZE	BASE PLATE	SIZE	DEPTH	REINF. E.W.	NOTES:
GA-G1	11	HSS6x6x3/8	12"x3/4"x12"	4'-0"x4'-0"	12"	5#4	
GB-G1	18	HSS6x6x3/8	12"x3/4"x12"	4'-0"x4'-0"	12"	5#4	
GB-G7	11	HSS6x6x3/8	12"x3/4"x12"	4'-0"x4'-0"	12"	5#4	
GC-G1	18	HSS6x6x3/8	12"x3/4"x12"	4'-0"x4'-0"	12"	5#4	
GC-G2	20	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GC-G3	19	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GC-G4	21	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GC-G5	22	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GC-G6	15	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GC-G7	30	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GD-G8	14	HSS6x6x3/8	12"x3/4"x12"	4'-0"x4'-0"	12"	5#4	
G35-G2	16	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G35-G3	16	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G35-G4	17	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G35-G5	18	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G35-G6	19	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G34-G1	13	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G34-G2	13	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G35-G7	28	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G34-G3	12	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G35-G8	14	HSS6x6x3/8	12"x3/4"x12"	4'-0"x4'-0"	12"	5#4	
G34-G4	12	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G34-G5	12	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G34-G6	13	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
G34-G7	11	HSS6x6x3/8	12"x7/8"x12"	5'-0"x5'-0"	16"	7#5	
GS-G9	5	HSS6x6x3/8	14"x3/4"x14"	4'-6"x4'-6"	12"	5#5	
GS-G10	5	HSS6x6x3/8	14"x3/4"x14"	4'-6"x4'-6"	12"	5#5	

GEORGIA REGISTERED W. WINTER SAUSSY, III
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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1556
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

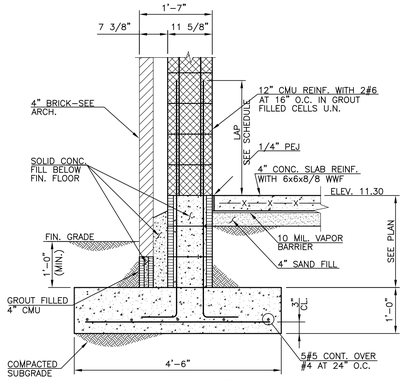
FOUNDATION AND MEZZANINE FRAMING PLANS- NEW GYMNASIUM

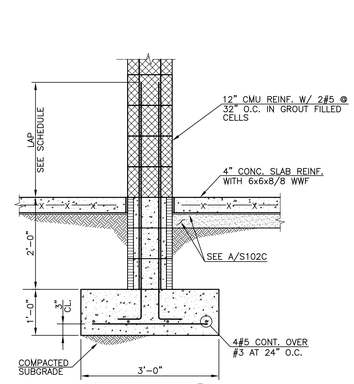
NO.	REVISION / SUBMISSIONS	DATE
6	Phase 4	6/30/22

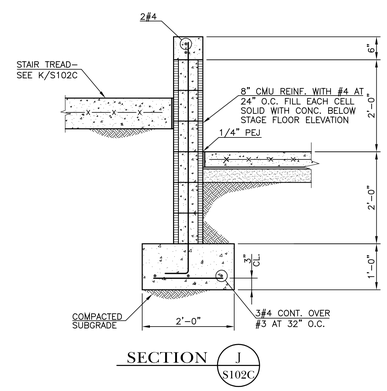
SAUSSY ENGINEERING
400 Johnny Mercer Boulevard • Suite E
P.O. Box 30597 • Savannah, Georgia 31410
Phone: (912) 898-8255 • Fax: (912) 898-1882

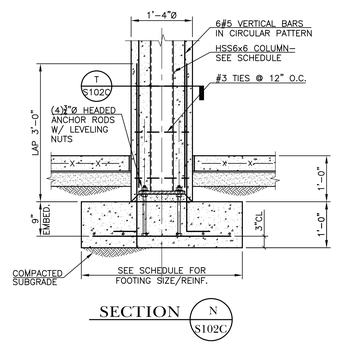
PROJECT NO. 21026

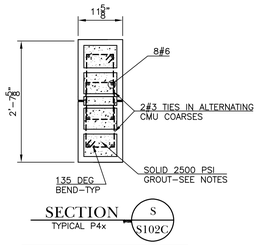
SHEET:
S101C

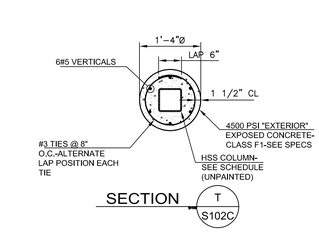


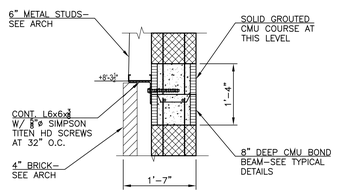




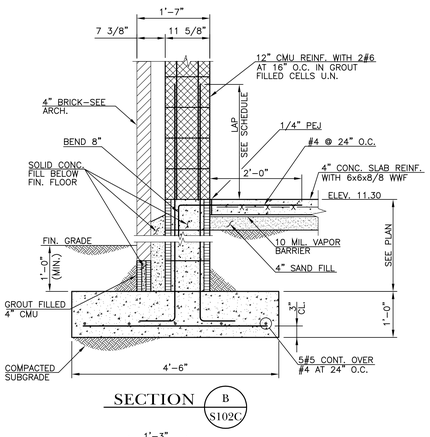


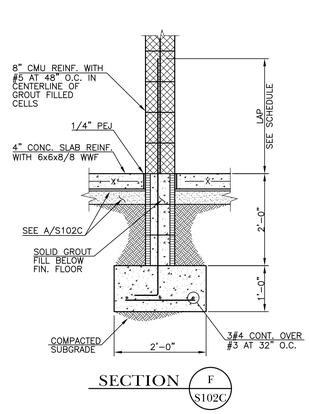


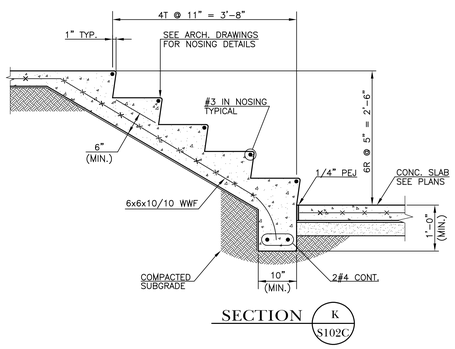


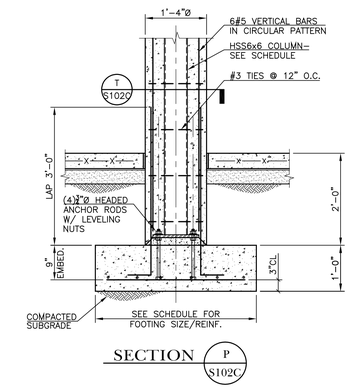


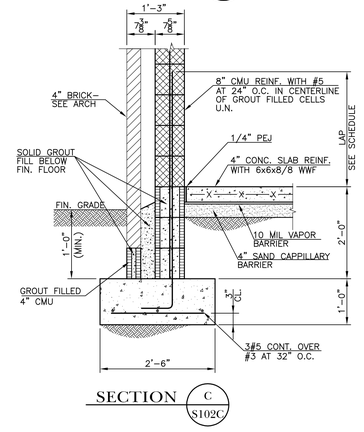
TYPICAL DETAIL AT TRANSITION FROM BRICK VENEER TO METAL STUDS AT EXTERIOR WALL

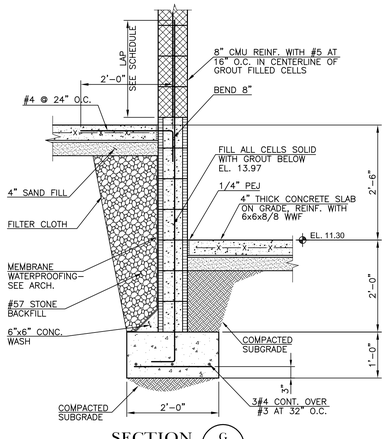


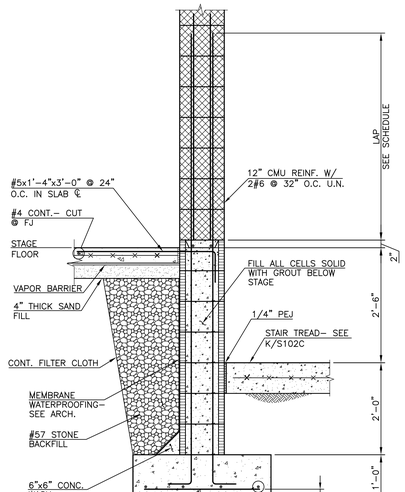


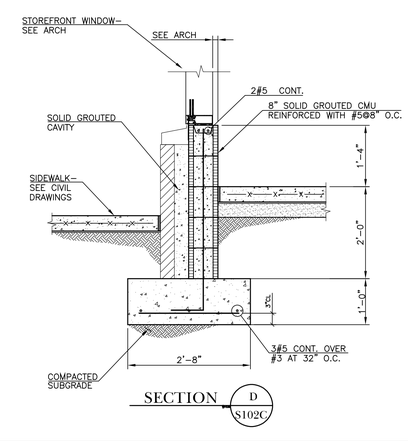


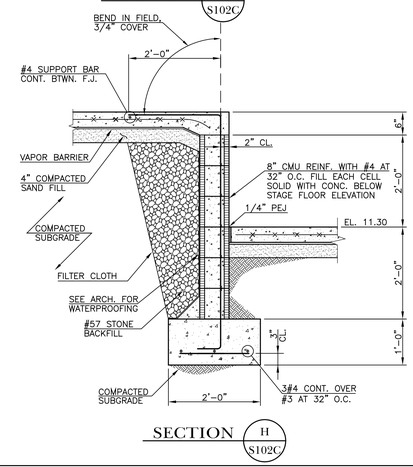


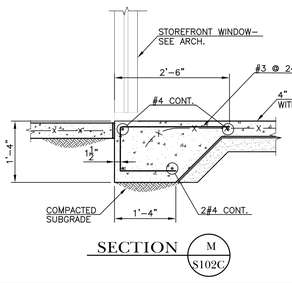


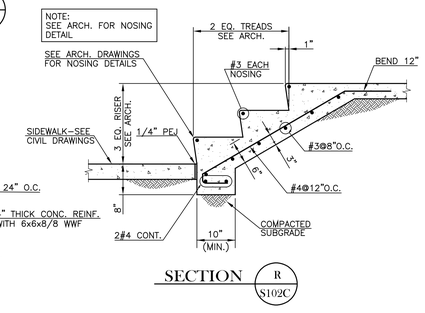


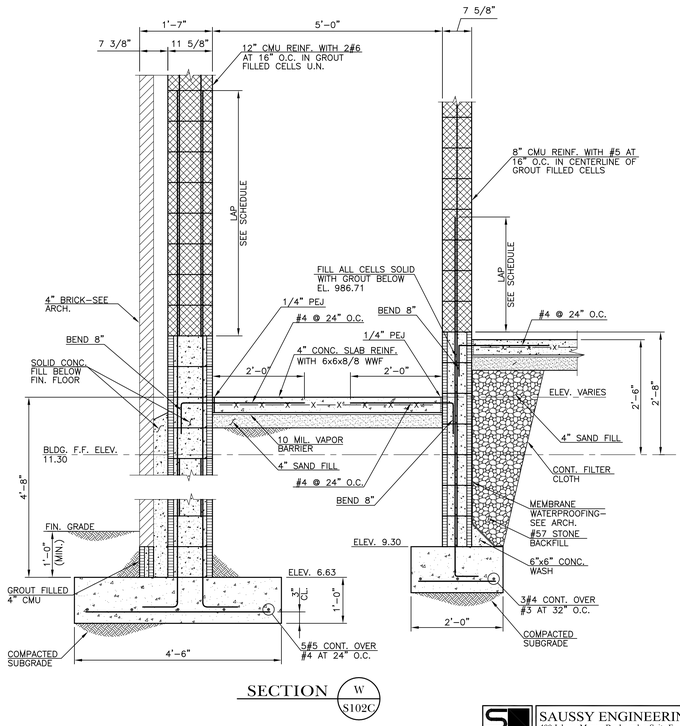












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PROJECT # 21026 - PLOT DATE: S102C.dwg 7/8/22 4:08 pm

GEORGIA
REGISTERED
No. 000032
STRUCTURAL
W. HUNTER SAUSSY, III
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4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
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CAPITAL OUTLAY PROJECT # TBD
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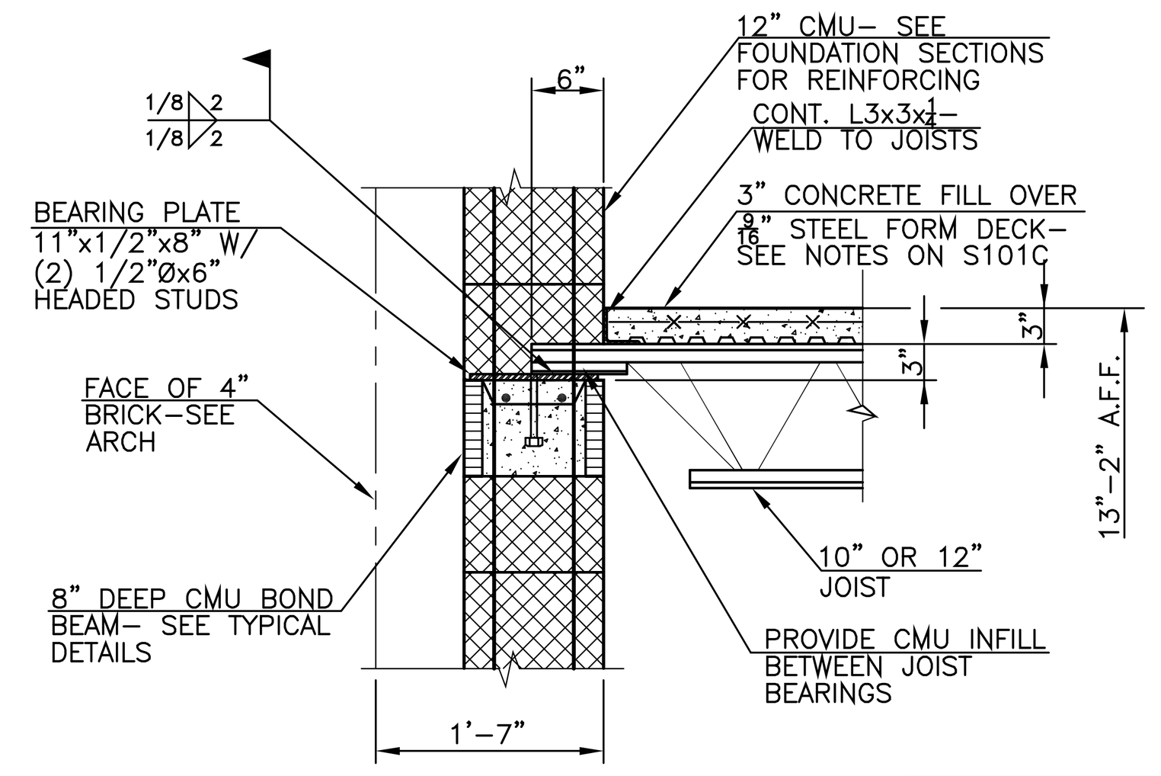
SECTIONS - NEW GYMNASIUM

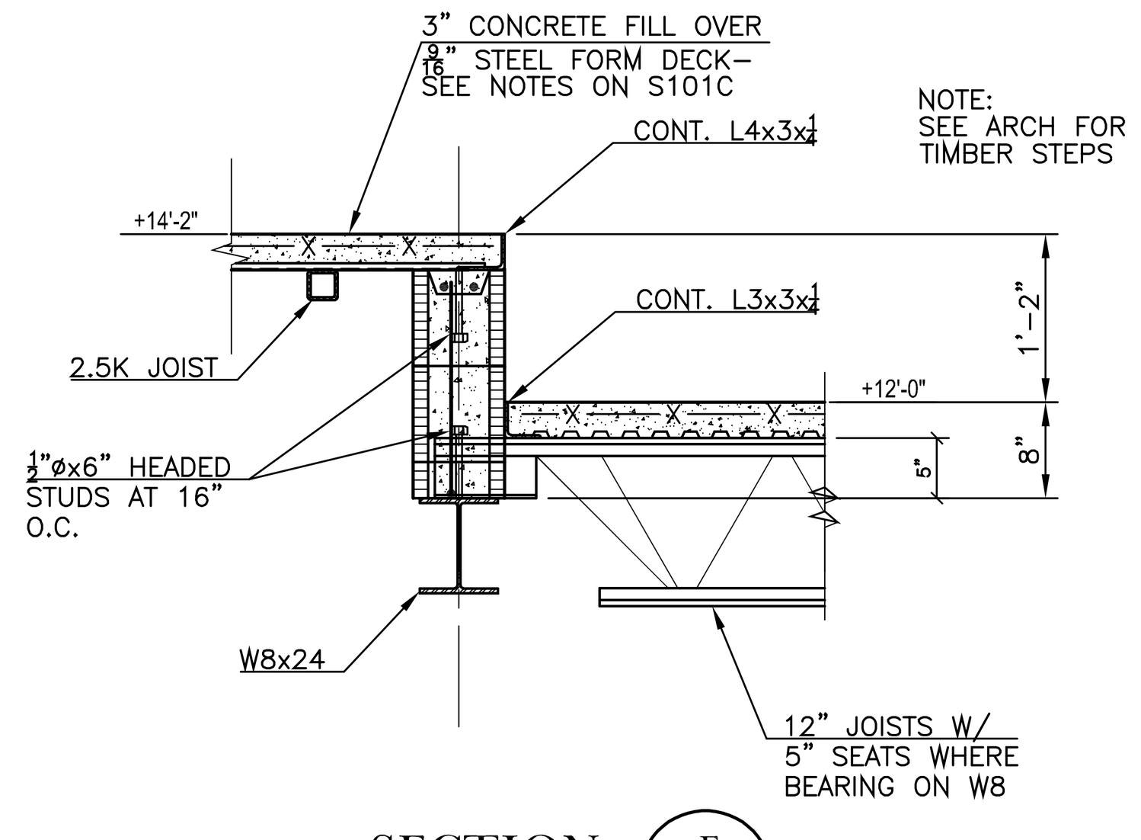
NO.	REVISION / SUBMISSIONS	DATE
6	PHASE 4	6/3/22

SHEET:
S102C

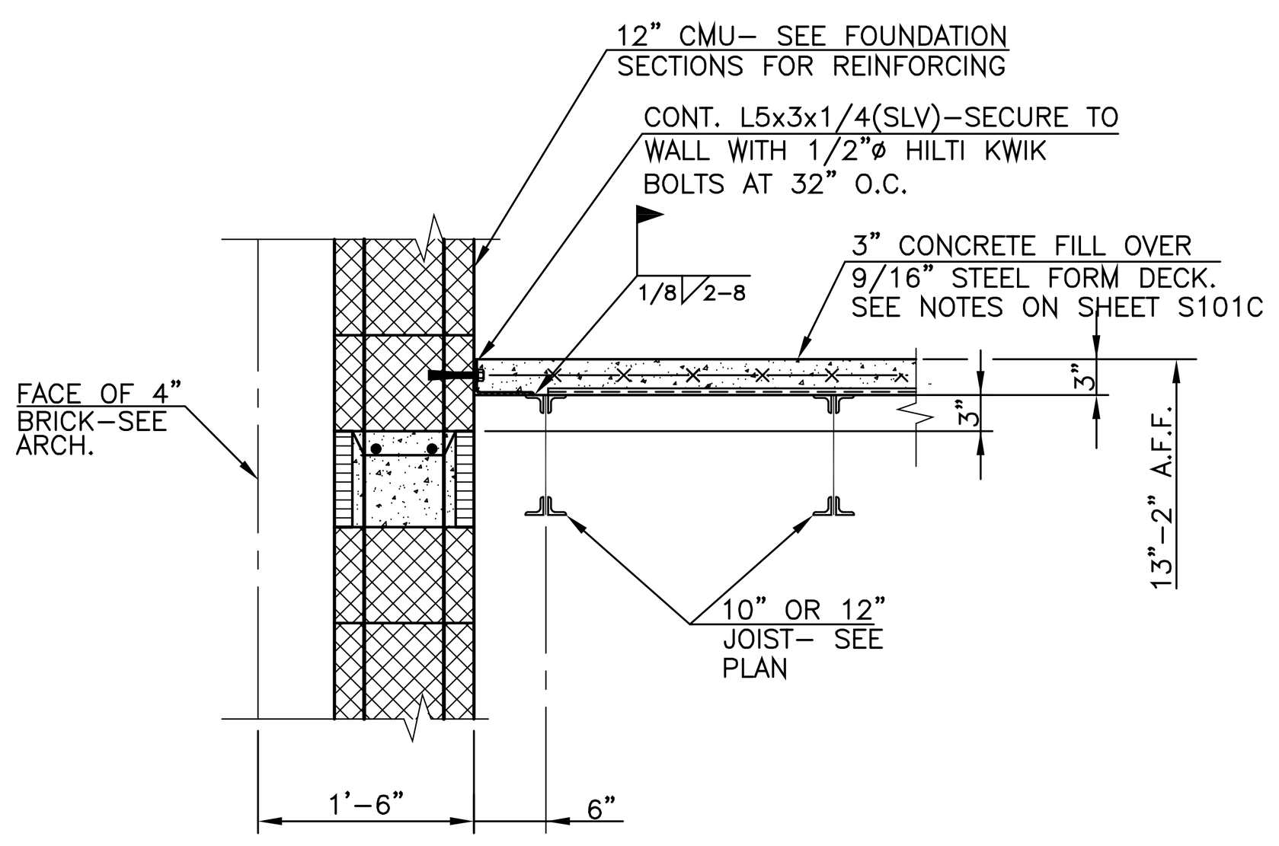


SECTION A S103C

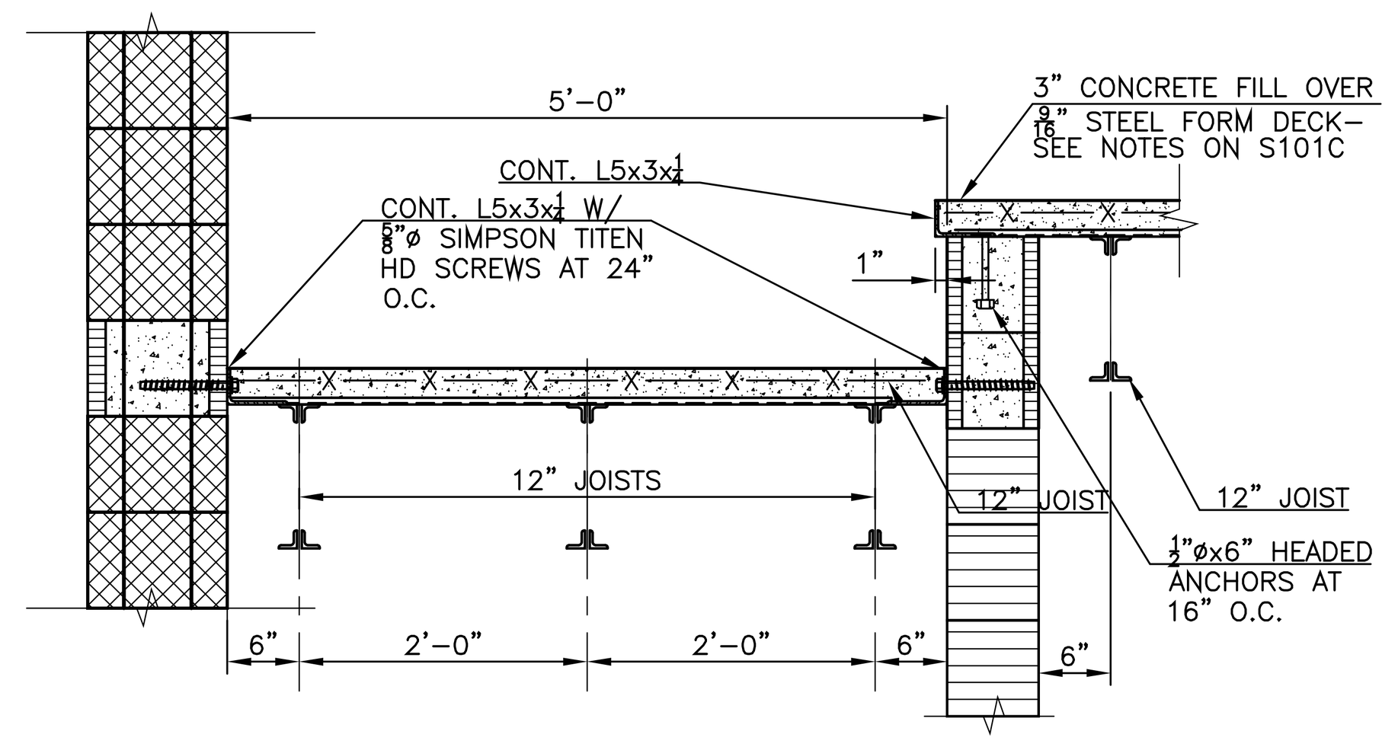
ALL ELEVATIONS ARE MEASURED FROM GYMNASIUM FINISHED FLOOR



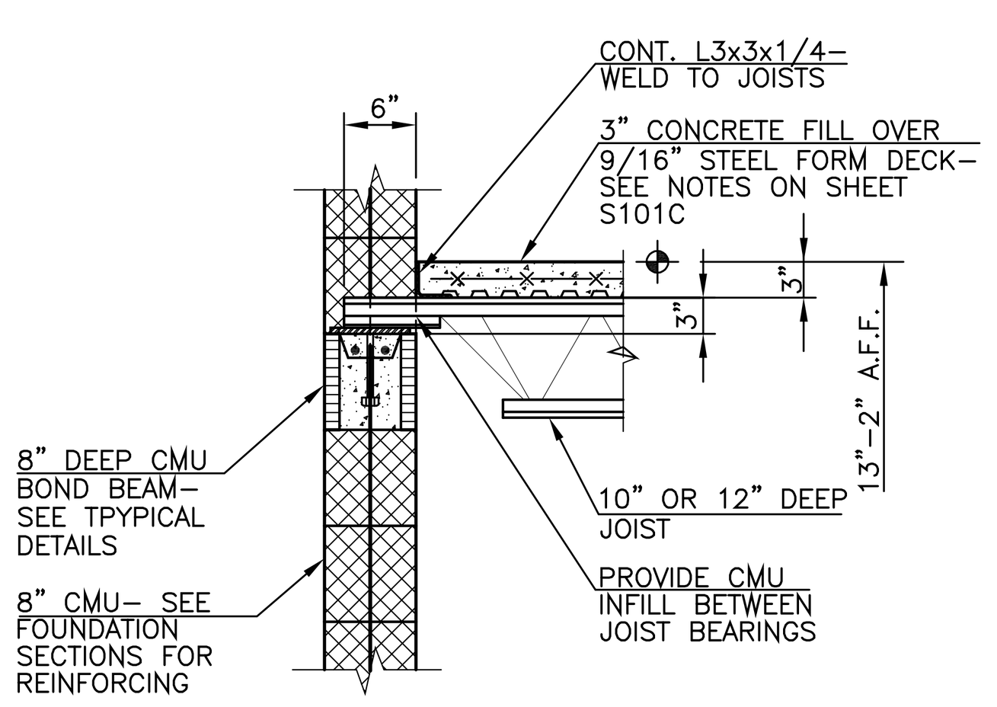
SECTION E S103C



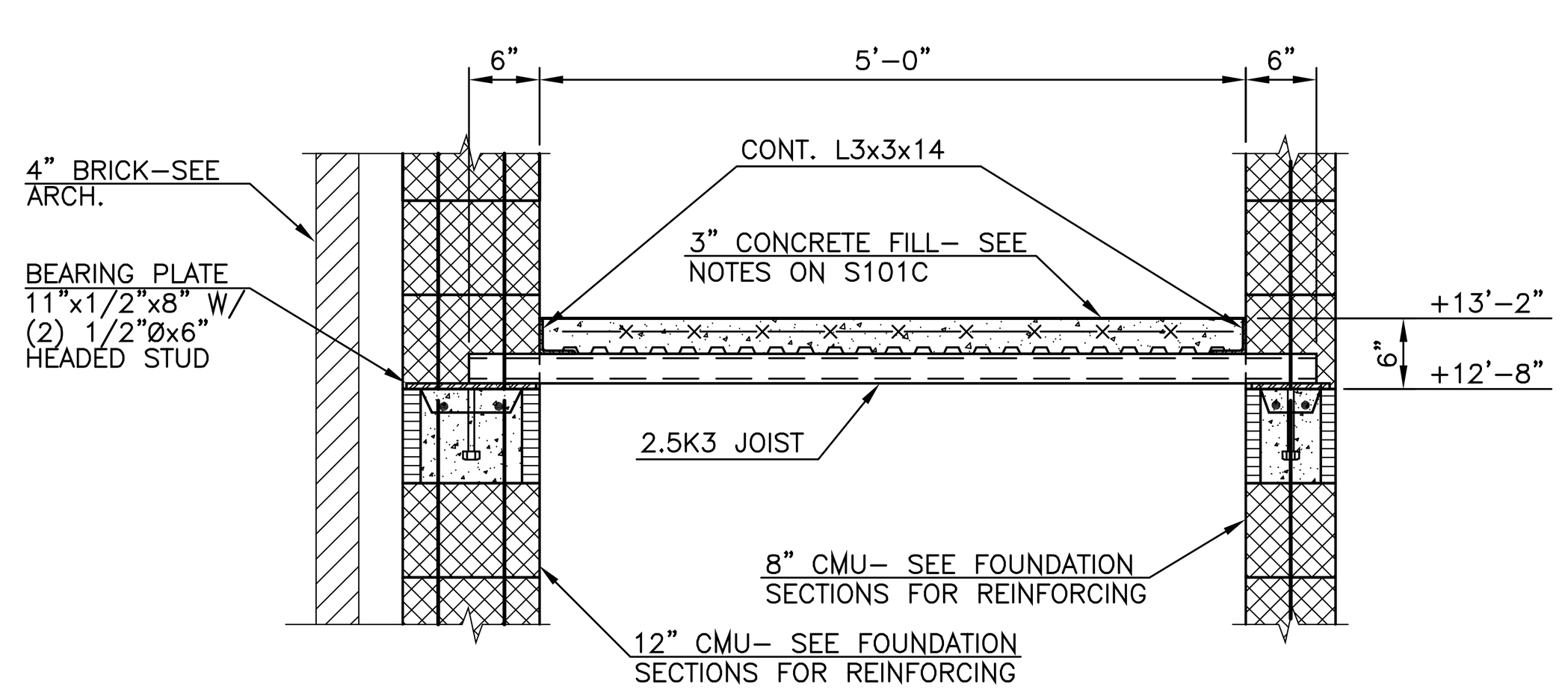
SECTION B S103C



SECTION F S103C



SECTION C S103C



SECTION D S103C

GEORGIA No. 000432 W. HUNTER SAUSSY III
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SECTIONS - NEW GYMNASIUM

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

NO.	REVISION / SUBMISSIONS	DATE
6	PHASE 4	6/20/22

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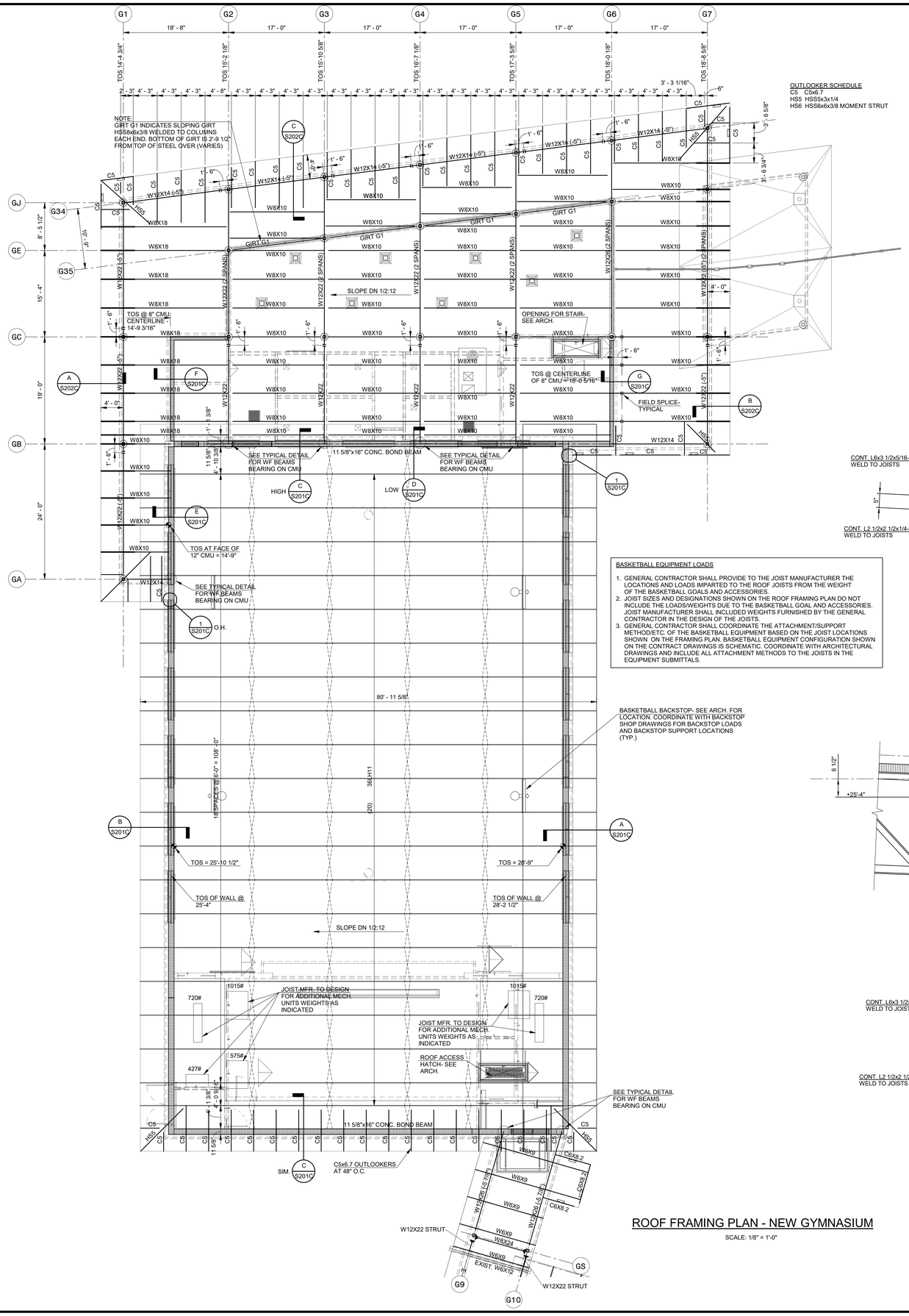
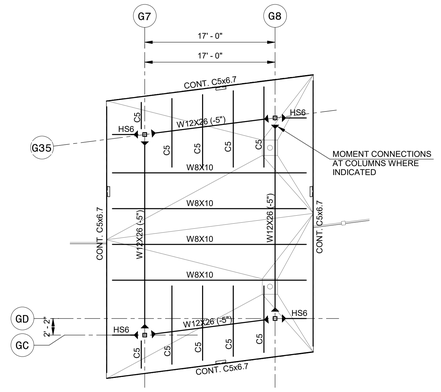
PROJECT # 21026 - PLOT DATE: S103C.dwg 7/8/22 4:08 pm

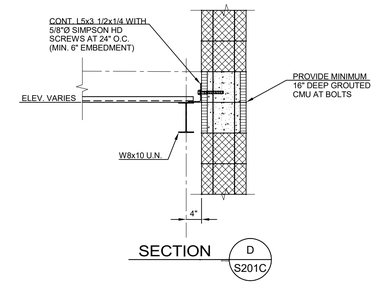
SHEET:
S103C



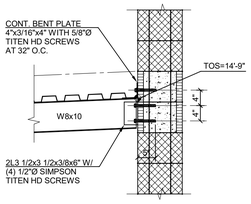
ROOF FRAMING PLAN - LOW CANOPY

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

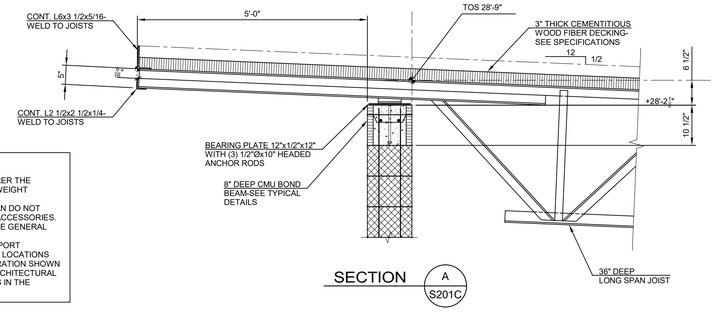




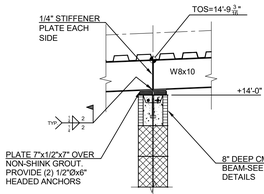
SECTION D S201C



SECTION E S201C



SECTION A S201C



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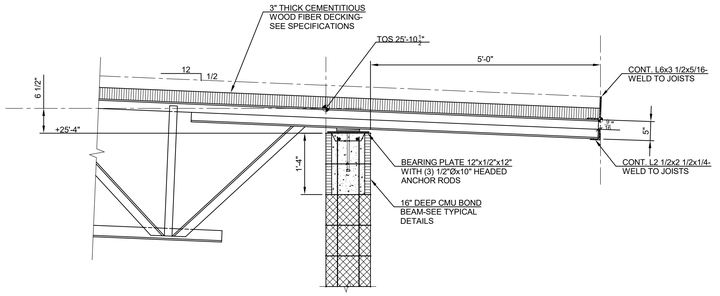
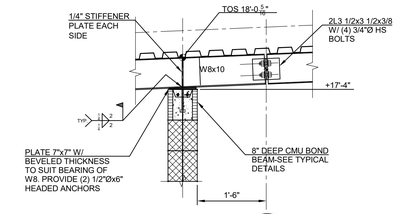
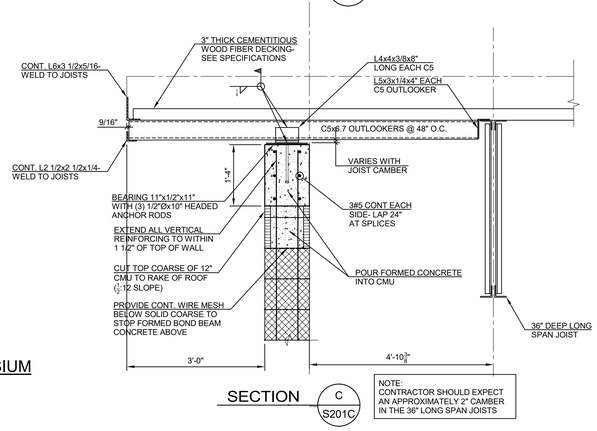


SECTION B S201C

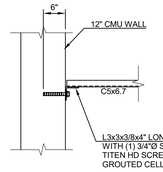


SECTION G S201C



SECTION C S201C

NOTE:
CONTRACTOR SHOULD EXPECT AN APPROXIMATELY 2" CAMBER IN THE 36" LONG SPAN JOISTS



SECTION 1 S201C

BASKETBALL EQUIPMENT LOADS

1. GENERAL CONTRACTOR SHALL PROVIDE TO THE JOIST MANUFACTURER THE LOCATIONS AND LOADS IMPARTED TO THE ROOF JOISTS FROM THE WEIGHT OF THE BASKETBALL GOALS AND ACCESSORIES.
2. JOIST SIZES AND DESIGNATIONS SHOWN ON THE ROOF FRAMING PLAN DO NOT INCLUDE THE LOADS/WEIGHTS DUE TO THE BASKETBALL GOAL AND ACCESSORIES. JOIST MANUFACTURER SHALL INCLUDED WEIGHTS FURNISHED BY THE GENERAL CONTRACTOR IN THE DESIGN OF THE JOISTS.
3. GENERAL CONTRACTOR SHALL COORDINATE THE ATTACHMENT/SUPPORT METHOD/ETC. OF THE BASKETBALL EQUIPMENT BASED ON THE JOIST LOCATIONS SHOWN ON THE FRAMING PLAN. BASKETBALL EQUIPMENT CONFIGURATION SHOWN ON THE CONTRACT DRAWINGS IS SCHEMATIC. COORDINATE WITH ARCHITECTURAL DRAWINGS AND INCLUDE ALL ATTACHMENT METHODS TO THE JOISTS IN THE EQUIPMENT SUBMITTALS.

ROOF FRAMING PLAN - NEW GYMNASIUM

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

GEORGIA REGISTERED W. WINTER SAUSSY, III
Not Valid Unless Signed

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
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ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1056
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 20351

ROOF FRAMING PLAN - NEW GYMNASIUM

NO	REVISION / SUBMISSIONS	DATE
6	Phase 4	6/30/22

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400 Johnny Mercer Boulevard • Suite E
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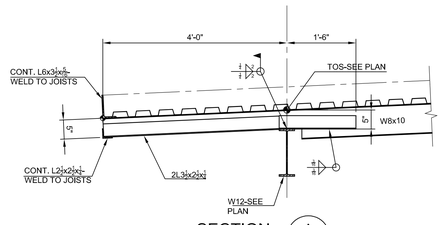
PROJECT NO. 21026

SHEET: S201C



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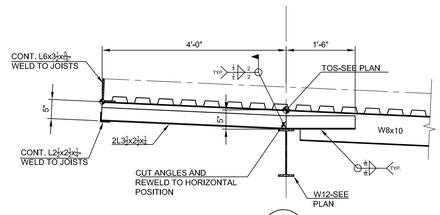

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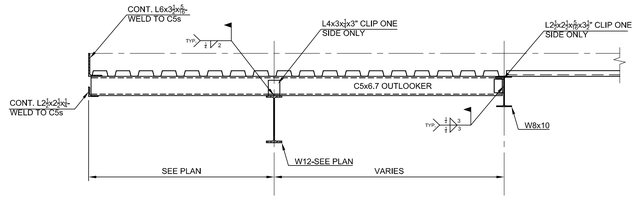

SECTION C S202C

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PROJECT # 21026 - PLOT DATE: S202C.dwg 7/8/22 4:08 pm

GEORGIA
REGISTERED
No. 000432
STRUCTURAL
ENGINEER
W. HUNTER SAUSSY, III
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ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd, St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

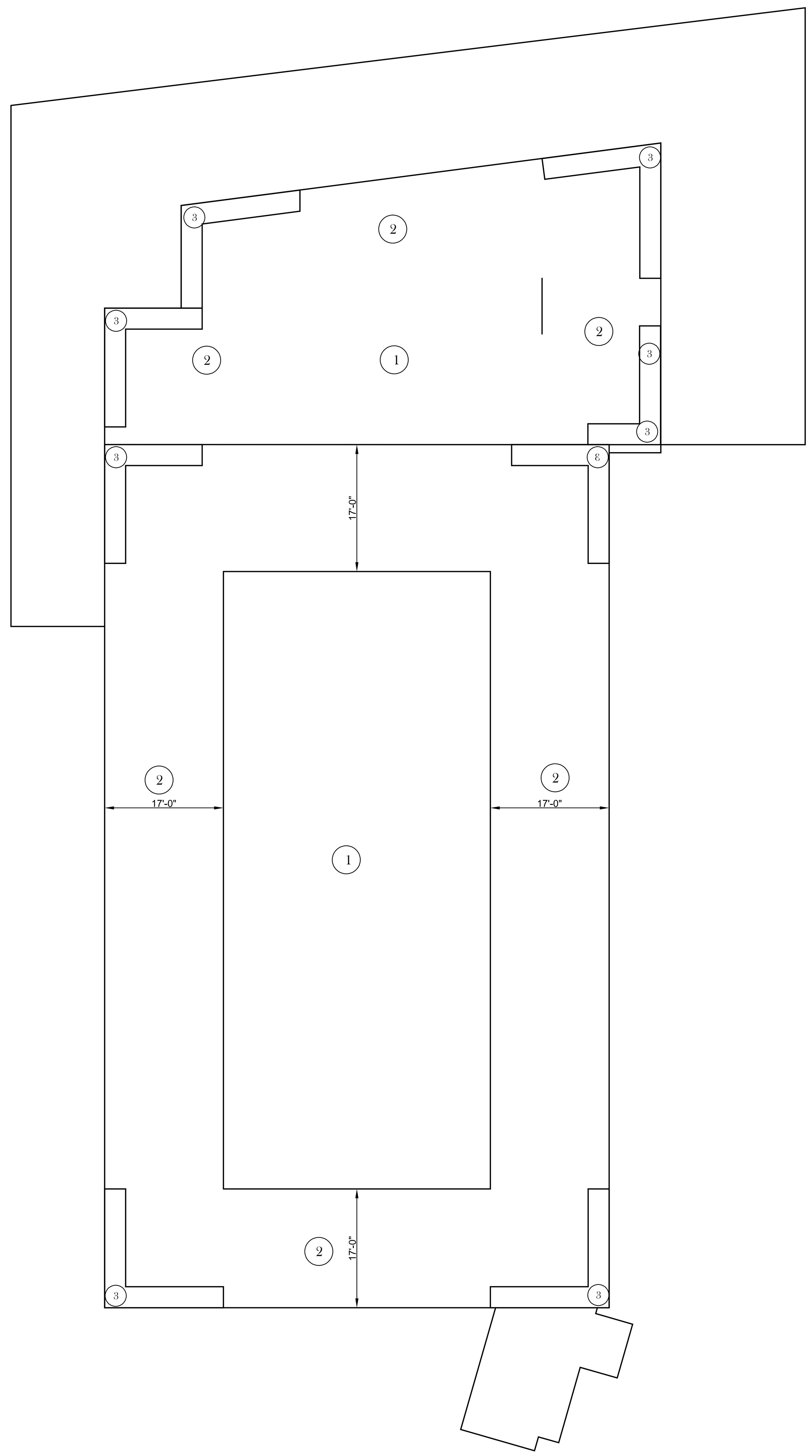
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1556
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

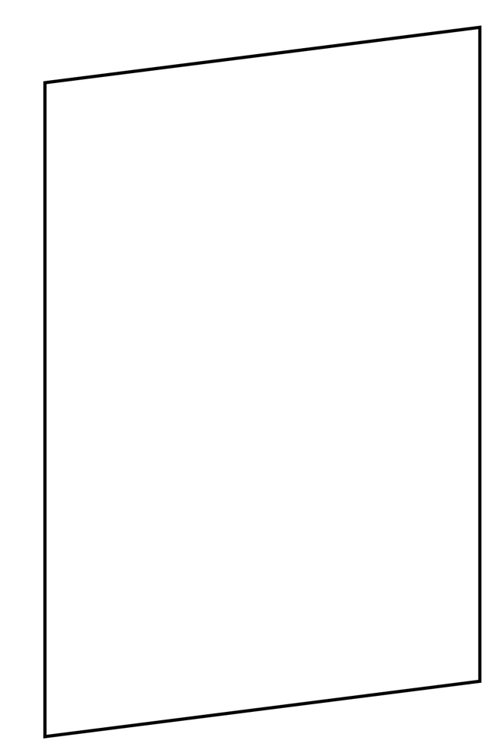
SECTIONS - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE
1	PHASE 4	6/30/22

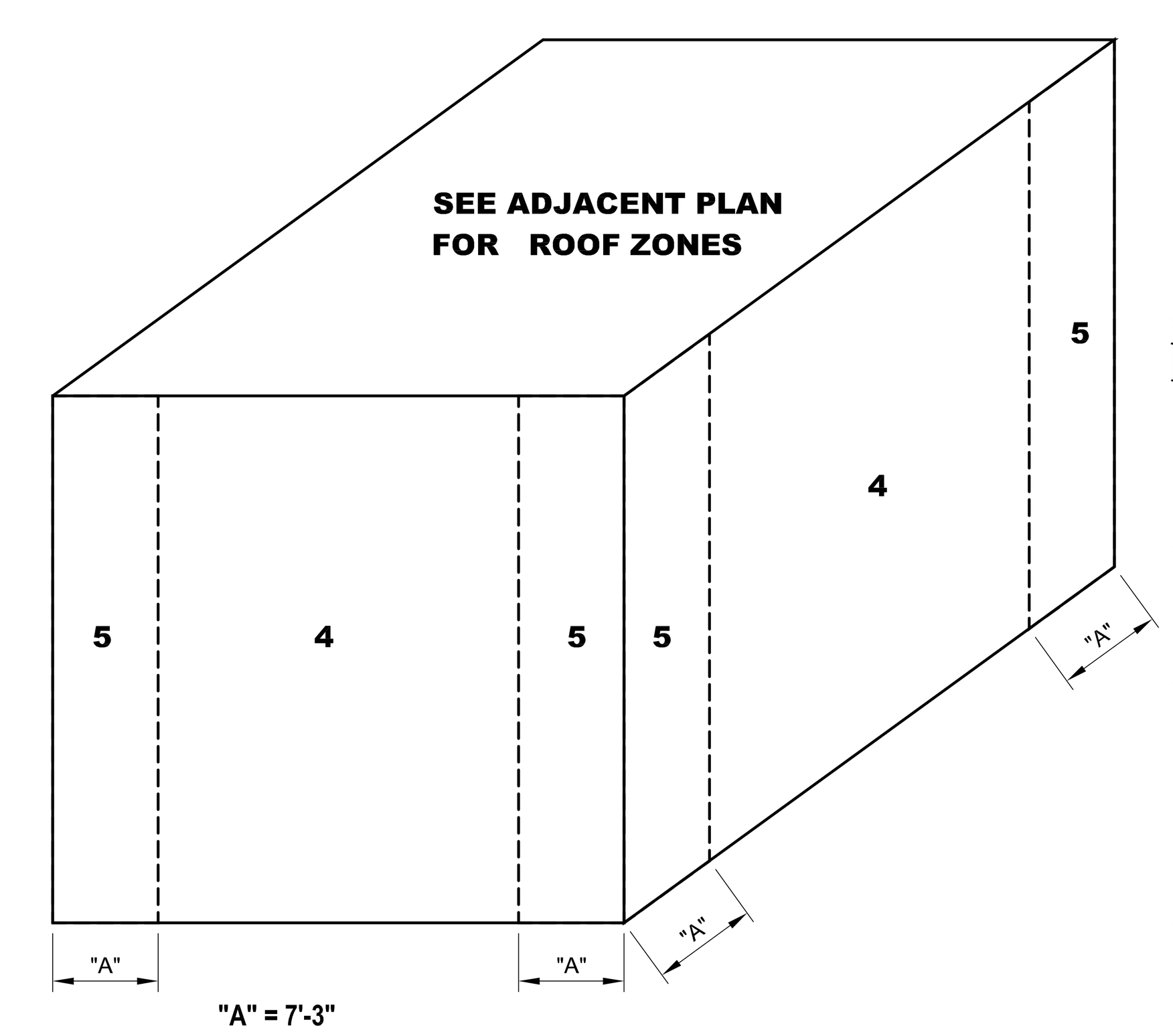
SHEET:
S202C



WIND PRESSURE DIAGRAM - NEW GYMNASIUM



WIND PRESSURE DIAGRAM - NEW GYMNASIUM LOW CANOPY



COMPONENTS AND CLADDING ROOF AND WALL PRESSURES

NOTES:

1. ALL WIND LOADING SHOWN HEREIN ARE UNFACTORED BASED ON ASCE-7-16 BASIC WIND SPEED (3 SECOND GUST) WHICH IS EQUIVALENT TO IBC ULTIMATE DESIGN WIND SPEED.
2. FOR STRENGTH DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:
   - 1.2D + 1.6Lr +0.5W
   - 1.2D + 1.0W + 0.5Lr
   - 0.9D + 1.0W
3. FOR ALLOWABLE STRESS DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:
   - D + 0.6W
   - D+ 0.45W + 0.75Lr
   - 0.6D + 0.6W
     - D = DEAD LOAD
     - Lr = ROOF LIVE LOAD
     - W = WIND LOAD
4. OPTIONALLY, COMPONENTS AND CLADDING MANUFACTURES MAY CALCULATE WIND PRESSURES AND GEOMETRY FOR ALL ZONES USING APPLICABLE PROCEDURES IN ASCE7-16. ALL DESIGNS SHALL BE COMPLETED USING THE LOAD COMBINATIONS IN CHAPTER 2 OF ASCE 7-16 AND CHAPTER 16 OF IBC.

WALL AND EAVE SURFACE PRESSURES

ZONE		TRIBUTARY AREA (SQFT)	PRESSURE (PSF)	
			POSITIVE	NEGATIVE
WALL & EAVE SURFACE	4	10 20 50 100 200 500 1000	34.1 32.1 30.4 29.3 27.6 25.6 25.6	-37.0 -35.6 -33.6 -32.1 -30.4 -28.4 -28.4
WALL & EAVE SURFACE EDGE	5	10 20 50 100 200 500 1000	34.1 32.1 30.4 29.3 27.6 25.6 25.6	-45.5 -42.1 -38.4 -36.1 --32.1 -28.4 -28.4

ROOF SURFACE PRESSURES-GYM HIGH ROOF

ZONE		TRIBUTARY AREA (SQFT)	PRESSURE (PSF)		
			POSITIVE	NEGATIVE	OVERHANG
ROOF SURFACE INTERIOR	1	10 20 50 100 200 500 1000	16.0 16.0 16.0 16.0 16.0 16.0 16.0	-59.4 -56.2 -49.9 -46.8 -43.6 -37.3 -37.3	-59.4 -56.2 -49.9 -46.8 -43.6 -37.3 -37.3
ROOF SURFACE EDGE	2	10 20 50 100 200 500 1000	16.0 16.0 16.0 16.0 16.0 16.0 16.0	-78.4 -73.6 -67.3 -62.6 -56.2 -49.9 -49.9	-78.4 -72.0 -62.6 -56.2 -49.9 -40.4 -40.4
ROOF SURFACE CORNER	3	10 20 50 100 200 500 1000	16.0 16.0 16.0 16.0 16.0 16.0 16.0	-106.8 -97.3 -84.7 -72.0 -62.6 -49.9 -49.9	-106.8 -95.7 -79.9 -67.3 -56.2 -40.4 -40.4

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PROJECT # 21026 - PLOT DATE: S203C.dwg 7/8/22 4:08 pm

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION

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GLYNN COUNTY BOARD OF EDUCATION

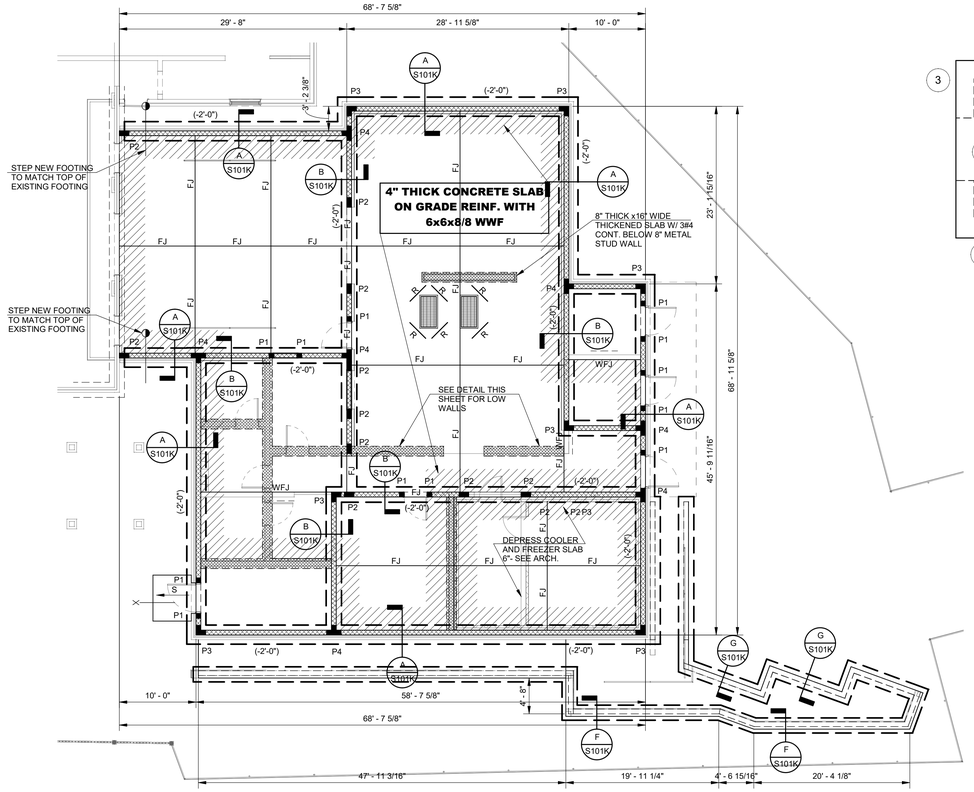
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1056
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

WIND PRESSURE SCHEDULES - NEW GYMNASIUM

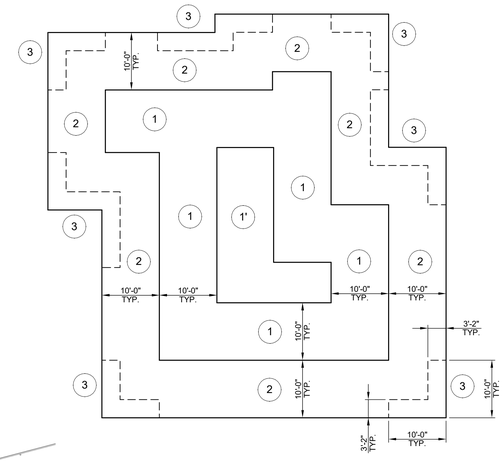
NO.	REVISION / SUBMISSIONS	DATE
6	PHASE 4	6/30/22

SHEET:
S203C

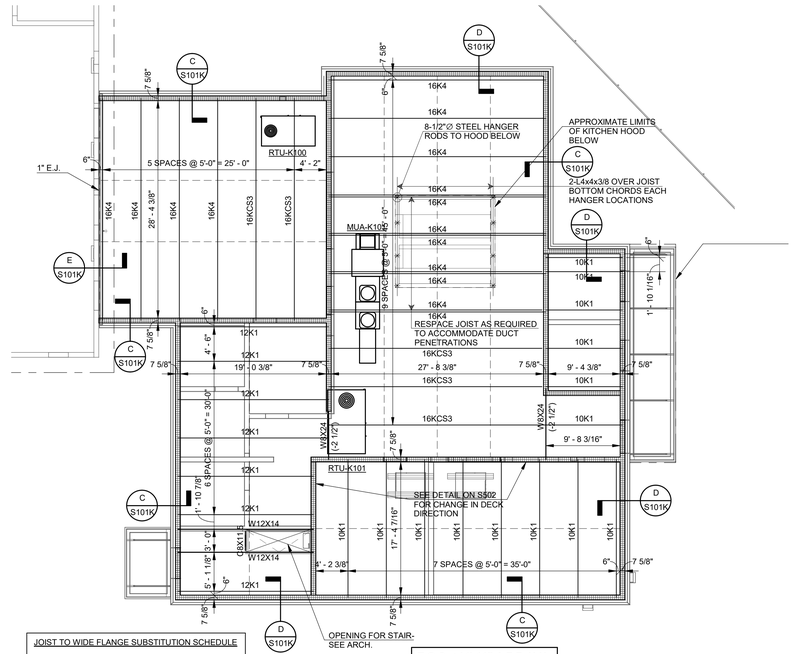


FOUNDATION PLAN - KITCHEN ADDITION

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



WIND PRESSURE DIAGRAM

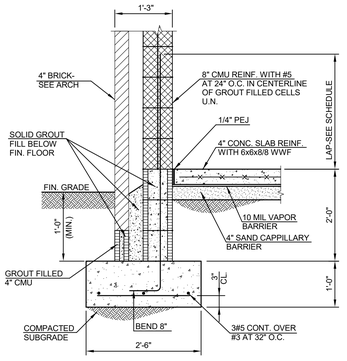


ROOF FRAMING PLAN - KITCHEN ADDITION

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

JOIST TO WIDE FLANGE SUBSTITUTION SCHEDULE	
JOIST DEPTH	ALTERNATE WF SIZE
10" JOIST	W10x12
12" JOIST	W12x14
14" JOIST	W14x22
16" JOIST	W16x26
24" JOIST	W24x55

NOTE:
BEARING OF WF BEAM SUBSTITUTIONS ON CMU WALLS SHALL CONFORM TO TYPICAL DETAIL ON SHEET S502



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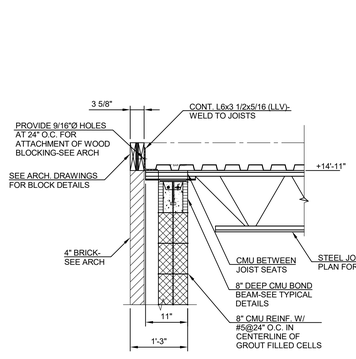

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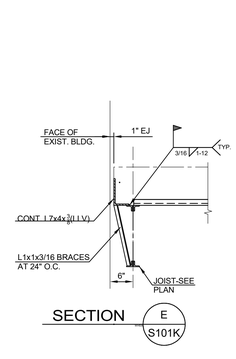

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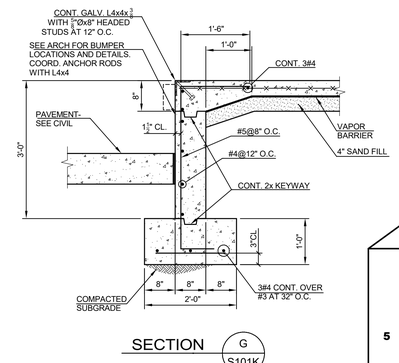

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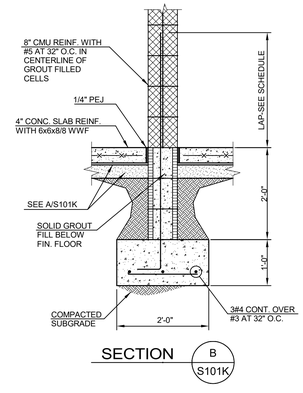

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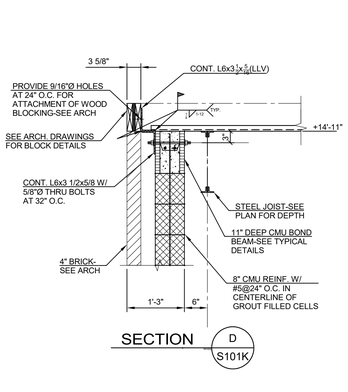

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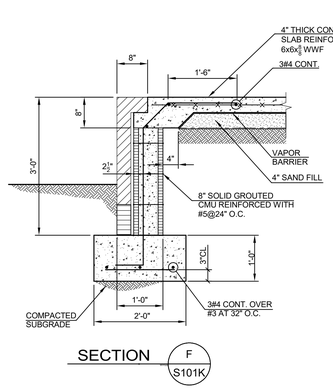

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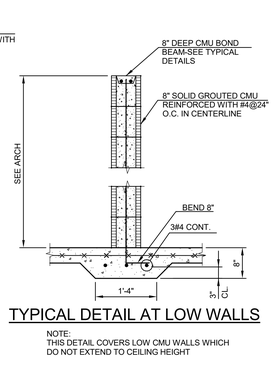
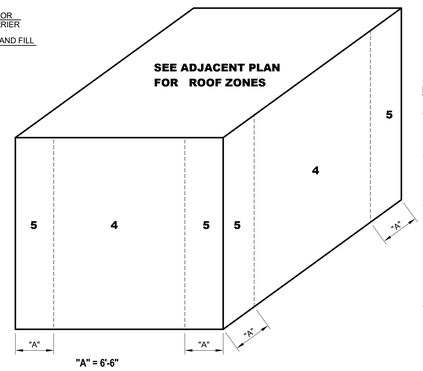


TYPICAL DETAIL AT LOW WALLS

NOTE:
THIS DETAIL COVERS LOW CMU WALLS WHICH DO NOT EXTEND TO CEILING HEIGHT



COMPONENTS AND CLADDING ROOF AND WALL PRESSURES

NOTES:

1. **ALL WIND LOADING SHOWN HEREIN ARE UNFACTORED BASED ON ASCE-7-16 BASIC WIND SPEED (3 SECOND GUST) WHICH IS EQUIVALENT TO IBC ULTIMATE DESIGN WIND SPEED.**
2. **FOR STRENGTH DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:**
   1.2D + 1.6Lr +0.5W
   1.2D + 1.0W + 0.5Lr
   0.9D + 1.0W
3. **FOR ALLOWABLE STRESS DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:**
   D + 0.6W
   D+ 0.45W + 0.75Lr
   0.6D + 0.6W
   D = DEAD LOAD
   Lr = ROOF LIVE LOAD
   W = WIND LOAD
4. **OPTIONALLY, COMPONENTS AND CLADDING MANUFACTURES MAY CALCULATE WIND PRESSURES AND GEOMETRY FOR ALL ZONES USING APPLICABLE PROCEDURES IN ASCE7-16. ALL DESIGNS SHALL BE COMPLETED USING THE LOAD COMBINATIONS IN CHAPTER 2 OF ASCE 7-16 AND CHAPTER 16 OF IBC.**

ROOF SURFACE PRESSURES-KITCHEN ADDITION				
ZONE		TRIBUTARY AREA (SQFT)	PRESSURE (PSF) POSITIVE	PRESSURE (PSF) NEGATIVE
ROOF SURFACE INTERIOR	1'	10	18.6	-41.9
		20	17.7	-41.9
		50	16.0	-41.9
		100	16.0	-41.9
		200	16.0	-36.1
		500	16.0	-28.3
		1000	16.0	-22.5
ROOF SURFACE INTERIOR	1	10	18.6	-72.9
		20	17.7	-69.1
		50	16.0	-61.3
		100	16.0	-57.4
		200	16.0	-53.5
		500	16.0	-45.8
		1000	16.0	-45.8
ROOF SURFACE EDGE	2	10	18.6	-96.2
		20	17.7	-90.4
		50	16.0	-82.6
		100	16.0	-76.8
		200	16.0	-69.1
		500	16.0	-61.3
		1000	16.0	-61.3
ROOF SURFACE CORNER	3	10	18.6	-131.1
		20	17.7	-119.5
		50	16.0	-104.0
		100	16.0	-88.5
		200	16.0	-76.8
		500	16.0	-61.3
		1000	16.0	-61.3

WALL AND EAVE SURFACE PRESSURES				
ZONE		TRIBUTARY AREA (SQFT)	PRESSURE (PSF) POSITIVE	PRESSURE (PSF) NEGATIVE
WALL & EAVE SURFACE	4	10	41.9	-45.4
		20	39.5	-43.7
		50	37.4	-41.2
		100	36.0	-39.5
		200	33.9	-37.4
		500	31.4	-34.9
		1000	31.4	-34.9
WALL & EAVE SURFACE EDGE	5	10	41.9	-55.9
		20	39.5	-51.7
		50	37.4	-47.1
		100	36.0	-44.3
		200	33.9	-39.5
		500	31.4	-34.9
		1000	31.4	-34.9

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PROJECT NO. 21026

GEORGIA REGISTERED PROFESSIONAL ENGINEER W. WINTER SAUSSY, III
Not Valid Unless Signed

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GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
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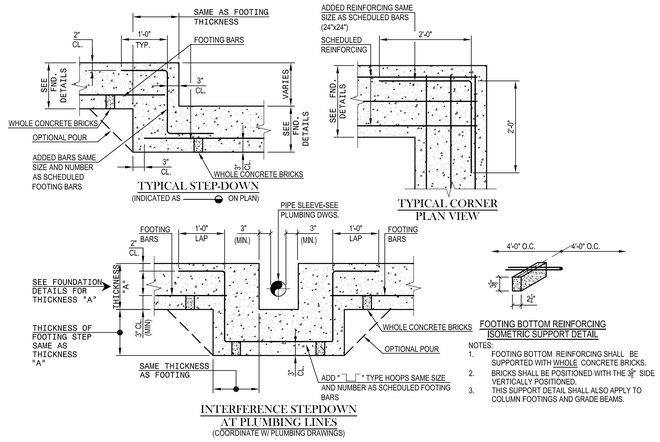
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

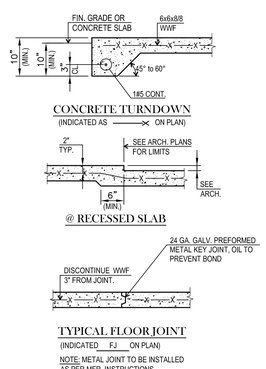
FOUNDATION AND ROOF FRAMING PLANS - KITCHEN ADDITION

NO.	REVISION / SUBMISSIONS	DATE
6	Phase 4	6/30/22

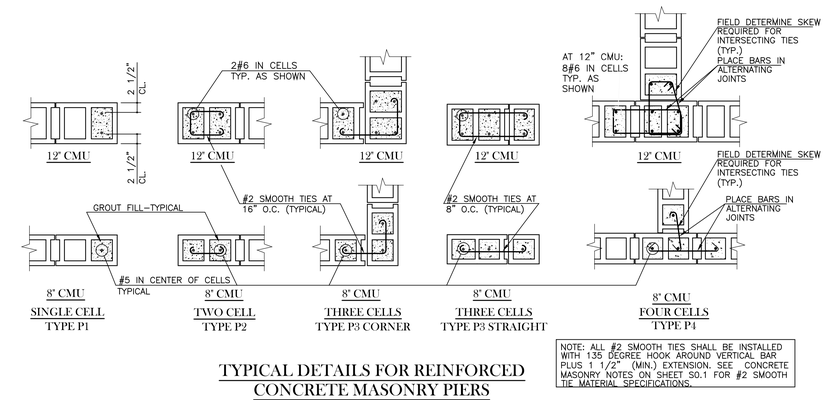
SHEET:
S101K



TYPICAL WALL FOOTING DETAILS



TYPICAL FLOOR SLAB DETAILS

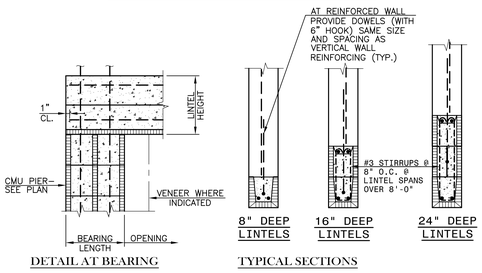


TYPICAL DETAILS FOR REINFORCED CONCRETE MASONRY PIERS

NOTE: ALL #2 SMOOTH TIES SHALL BE INSTALLED WITH 135 DEGREE HOOK AROUND VERTICAL BAR PLUS 1 1/2" (MIN.) EXTENSION. SEE CONCRETE MASONRY NOTES ON SHEET S0.1 FOR #2 SMOOTH TIE MATERIAL SPECIFICATIONS.

CMU LINTEL SCHEDULE

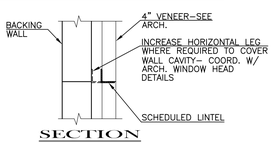
OPENING WIDTH	HEIGHT	REINFORCING BOT. BARS	REINFORCING TOP BARS	BEARING EA. END
MAX. 3'-4"	8"	2#4	–	8"
MAX. 6'-0"	16"	2#6	–	16"
MAX. 8'-0"	16"	2#6	2#4	16"
MAX. 10'-0"	16"	2#7	2#6	16"
MAX. 13'-0"	24"	2#7	2#6	16"

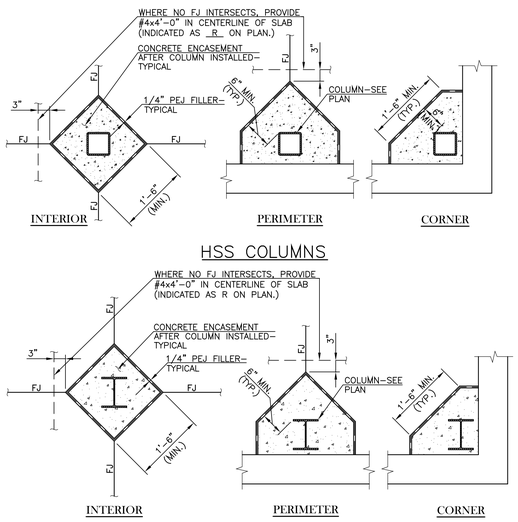


NOTES:
(A) BEARING LENGTHS REFER TO CONCRETE MASONRY AND DO NOT INCLUDE APPLIED VENEERS.
(B) WHERE CONCRETE MASONRY EXPOSED, 16" HIGH LINTELS SHALL BE CONSTRUCTED USING 8" DEEP CHANNEL BLOCK PLUS 8" DEEP SPANDREL BLOCK.
(C) WHERE LINTEL BEARING IS ADJACENT TO A CMU CONTROL JOINT, OFFSET CONTROL JOINT OVER OPENING TO END OF BEARING. DISCONTINUE VERTICAL REINFORCING AT JAMB BELOW AND PROVIDE 2 LAYERS 30lb. ASPHALT FELT BOND BREAKER BELOW LINTEL BEARING.

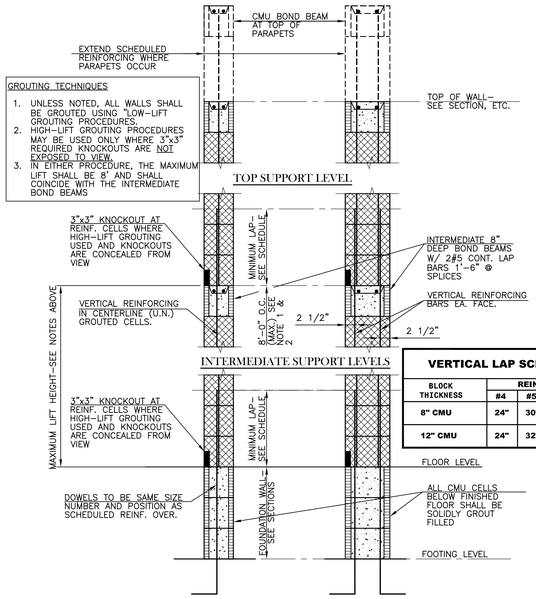
BRICK LINTEL SCHEDULE

OPENING WIDTH	SIZE	BEARING EA. END
MAX. 4'-0"	L3 1/2x3 1/2x5/16	6"
MAX. 6'-0"	L4x3 1/2x5/16 (LLV)	8"
MAX. 8'-0"	L6x3 1/2x5/16 (LLV)	10"
MAX. 10'-0"	L6x3 1/2x5/16 (LLV)	12"





TYP. COLUMN ISOLATION JOINT DETAIL @ CONCRETE SLABS



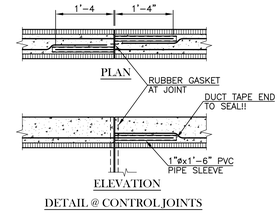
VERTICAL LAP SCHEDULE

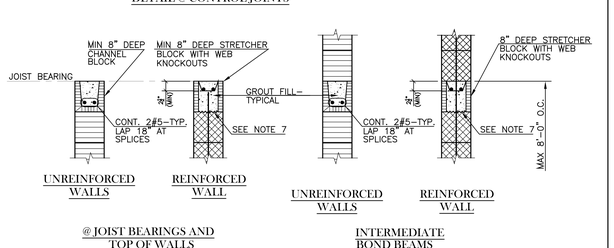
BLOCK THICKNESS	REINFORCING #4	#5	#6	#7
8" CMU	24"	30"	43"	60"
12" CMU	24"	32"	54"	63"

STANDARD DETAILS FOR REINFORCED CONCRETE MASONRY WALLS

NOTES:
NOTE (1) INTERMEDIATE BOND BEAMS MAY BE ADJUSTED IN ELEV. WITHIN 8" MAX. INCREMENTS TO INCORPORATE INTO LINTELS OR BEARING LEVELS FOR JOISTS OR BEAMS. SEE STANDARD DETAILS.
NOTE (2) WHEN FILLING CELLS MAX. LIFT PER POUR IS 8'-0" ALL REINF. MUST BE TIED IN PLACE PRIOR TO GROUTING.
NOTE (3) SEE STANDARD DETAIL FOR REINF. CONC. MASONRY PIERS FOR ADDITIONAL BARS REQ'D AT JAMBS, CORNERS, ETC.
NOTE (4) HEIGHT "H" IS THE MAX. DISTANCE BETWEEN LATERAL SUPPORTS PROVIDED BY FLOORS, ROOFS OR OTHER HORIZONTAL PLANES. WHERE WALL IS LATERALLY SUPPORTED AT INTERMEDIATE FLOOR OF ROOF LEVELS, THE REINFORCING SHALL BE THAT SCHEDULED FOR THE MAX. DISTANCE BETWEEN SUPPORTS. WHERE WALL CONTINUES ABOVE ROOF LEVEL (PARAPET), CONT. SCHEDULE REINFORCING FULL HEIGHT, U.N.
NOTE (5) INTERIOR WALLS ARE THOSE IN WHICH NO PORTION BELOW HIGHEST ADJACENT ROOF IS EXPOSED TO WIND FORCES (EXTERIOR EXPOSURE). IF ANY PORTION OF A WALL SYSTEM IS EXPOSED TO THE EXTERIOR, IT SHALL BE CLASSIFIED "EXTERIOR" EXPOSURE FOR IT'S FULL HEIGHT AND REINF. ACCORDINGLY.

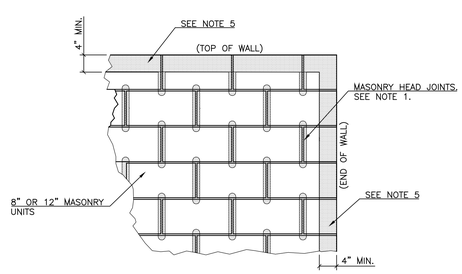
SHOP DRAWINGS SHALL BE FURNISHED BY GENERAL CONTRACTOR INCLUDING WALL ELEVATIONS AND PLANS DETAILING FINAL LAYOUT OF ALL VERTICAL AND HORIZONTAL REINFORCING REQUIRED BY THIS SCHEDULE DETAILS AND GENERAL NOTES IN THESE DOCUMENTS.





TYPICAL BOND BEAM DETAILS

BOND BEAM NOTES:
1. ALL CMU WALLS (INTERIOR,EXTERIOR, BEARING OR NON-BEARING,REINFORCED OR UNREINFORCED), 6" THICK(NOMINAL) OR GREATER, SHALL HAVE A BOND BEAM AS DETAILED ABOVE AT THE TOP OF THE WALL
2. WHERE WALL HEIGHTS EXCEEDS 10'-0", PROVIDE INTERMEDIATE BOND BEAMS AT MAXIMUM 8'-0" ON CENTER VERTICAL SPACING.
3. BOND BEAMS SHALL BE PROVIDED AT ALL JOIST BEARING ELEVATIONS AND WHERE DETAILED AT OTHER SPECIAL LOCATIONS OR AS SHOWN ON ARCHITECTURAL DRAWINGS.
4. LAP CONTINUOUS BOND BEAM REINFORCING 2'-0" AT SPLICES.
5. PROVIDE 2#5x30"x30" HORIZONTAL BARS AT CORNERS
6. WHERE BOND BEAM INTERRUPTED BY OPENINGS, BEND REINFORCING 12" INTO REINFORCED JAMBS.
7. AT REINFORCED CMU WALLS, PROVIDE WIRE MESH POUR STOP BETWEEN REINFORCED CELLS.



POST INSTALLED ANCHOR LIMITS AT MASONRY WALLS

NOTES:
1. DO NOT LOCATE ANCHORS WITHIN 1½" OF MASONRY HEAD JOINTS OR AS SPECIFIED BY ANCHOR MANUFACTURER.
2. REFER TO ANCHOR MANUFACTURER FOR ALL LIMITATIONS ON PLACEMENT OF ANCHORS.
3. WHERE NECESSARY, CONTRACTOR TO COORDINATE CONFIGURATION OF MASONRY UNITS TO PERMIT INSTALLATION OF ANCHORS TO COMPLY WITH MANUFACTURER'S LIMITATIONS.
4. PROVIDE ADDITIONAL ANCHORS FOR LEDGERS WHERE CONFLICTS OCCUR.
5. DO NOT INSTALL ANCHORS WITHIN 4" OF WALL ENDS OR TOP OF WALLS.

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Phone: (912) 898-8255 • Fax: (912) 898-1882
PROJECT # 21026 - PLOT DATE: S501.dwg 7/8/22 4:08 pm

GEORGIA REGISTERED No. 000032 STRUCTURAL ENGINEER W. HUNTER SAUSSY, III
Not Valid Unless Signed

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
www.johntuten.com

ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

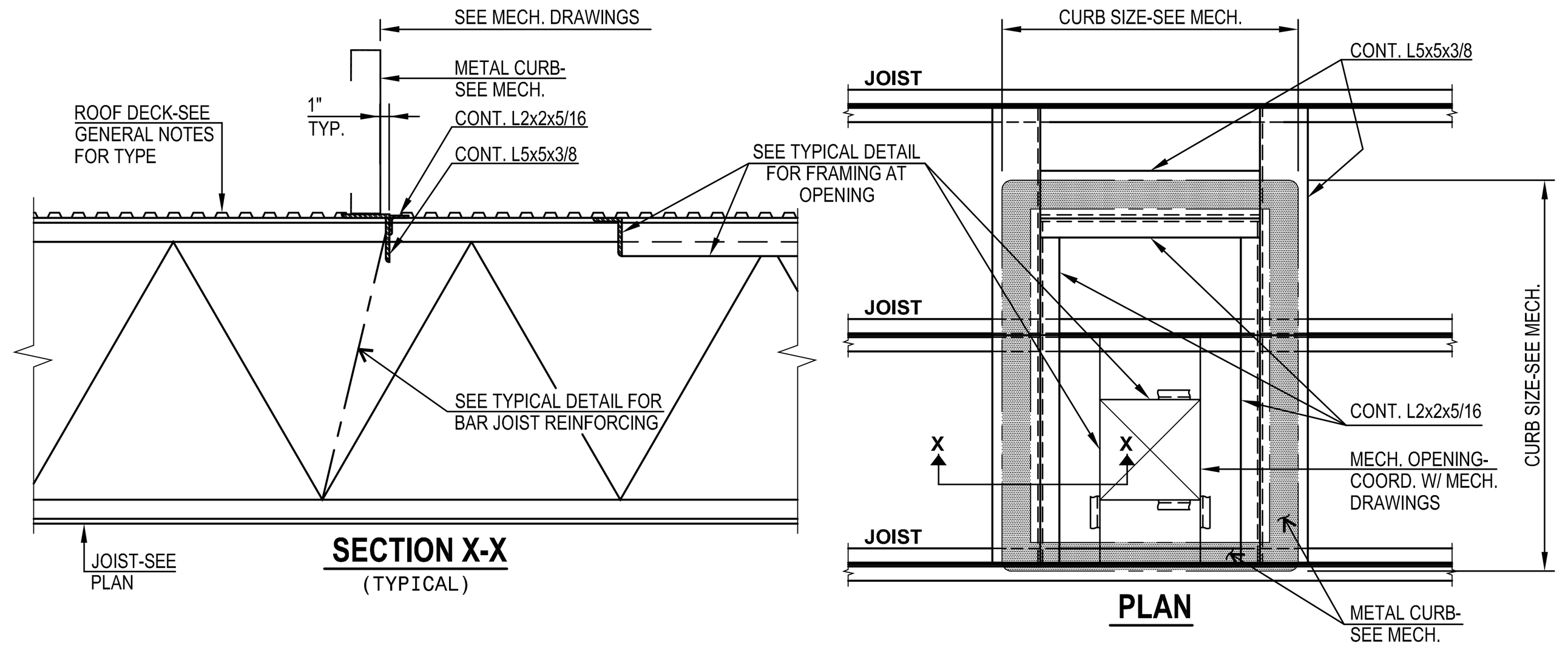
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1656
FTE: 600

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

NO.	REVISION / SUBMISSIONS	DATE
5	PHASE 4	6/2022

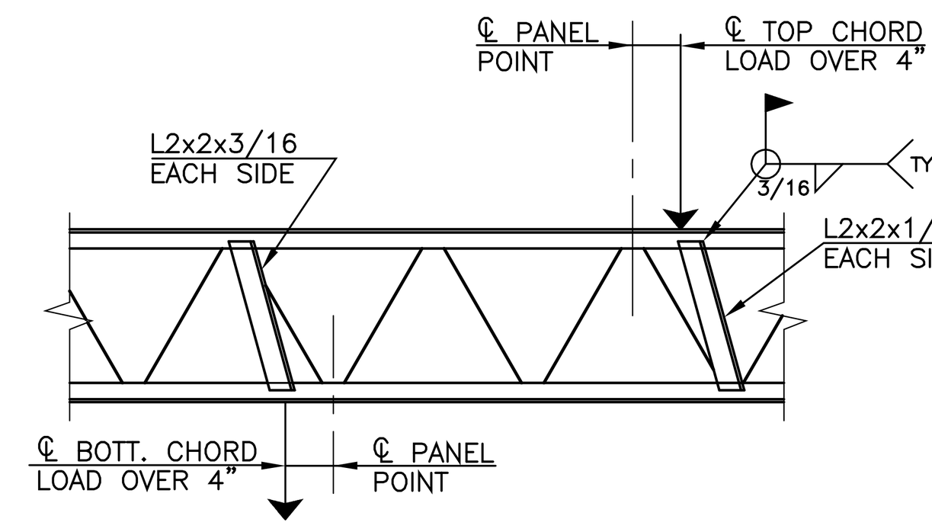
TYPICAL DETAILS

SHEET: S501



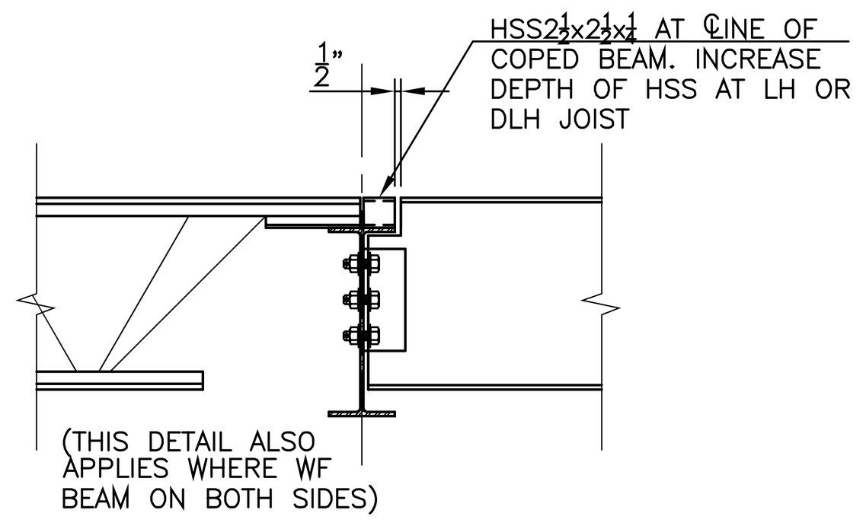
DETAIL OF SUPPORTS FOR ROOF TOP CURBS UNDER MECHANICAL EQUIPMENT

NOTES:
1. DETAIL DEPICTS CURB SUPPORTED BY MULTIPLE JOISTS. CONDITION SHALL BE THE SAME FOR CURB SUPPORTED BY ONLY 2 JOISTS.
2. BAR JOIST SECTIONS ARE SHOWN. DETAIL SHALL BE THE SAME FOR WF SECTIONS.
3. COORDINATE EXACT LOCATIONS WITH MECHANICAL DRAWINGS.

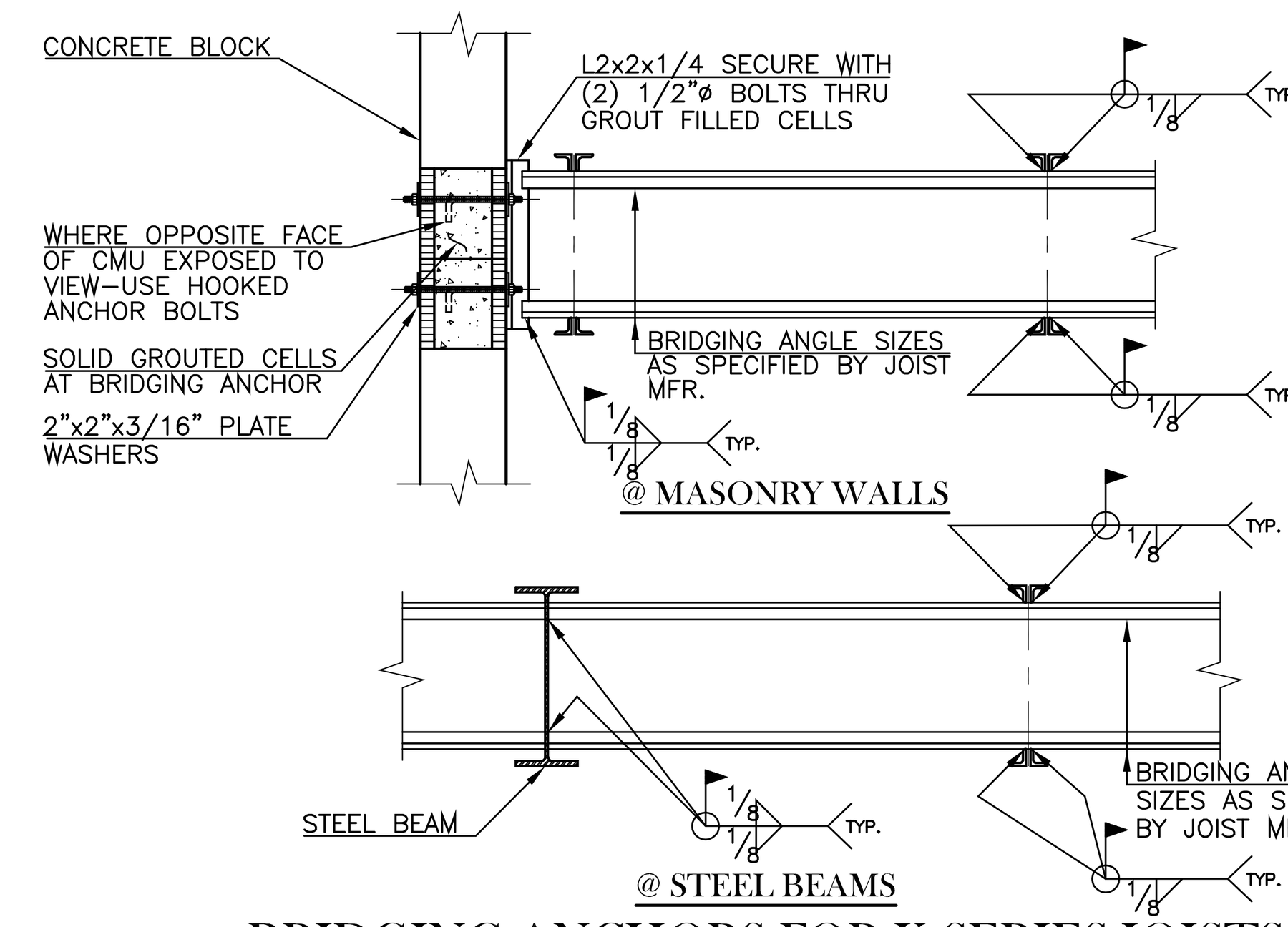


NOTE:
ADD WEB REINFORCING WHEN LOADS EXCEED 150 LB. AND ARE LOCATED OVER 4" FROM A WEB PANEL POINT. LOADS SHALL BE DETERMINED BY CONTRACTOR FOR EQUIPMENT FURNISHED AND SHALL BE SHOWN ON SHOP DRAWINGS.

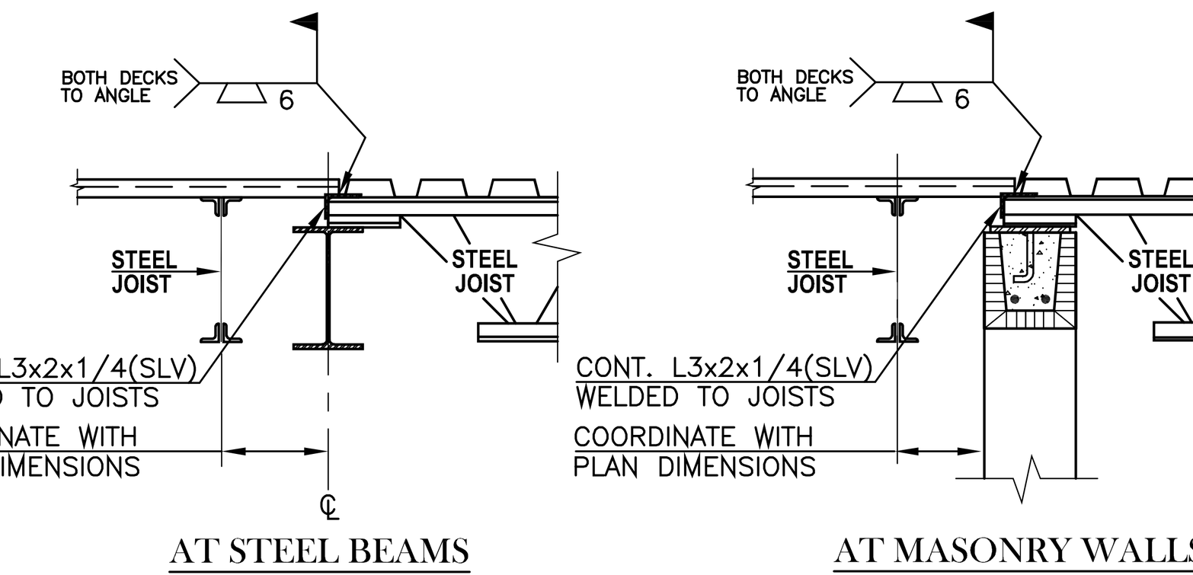
TYPICAL JOIST WEB REINFORCING AT CONCENTRATED LOADS



TYPICAL DETAIL AT ROOF DECK SUPPORT FOR COPED WF BEAMS

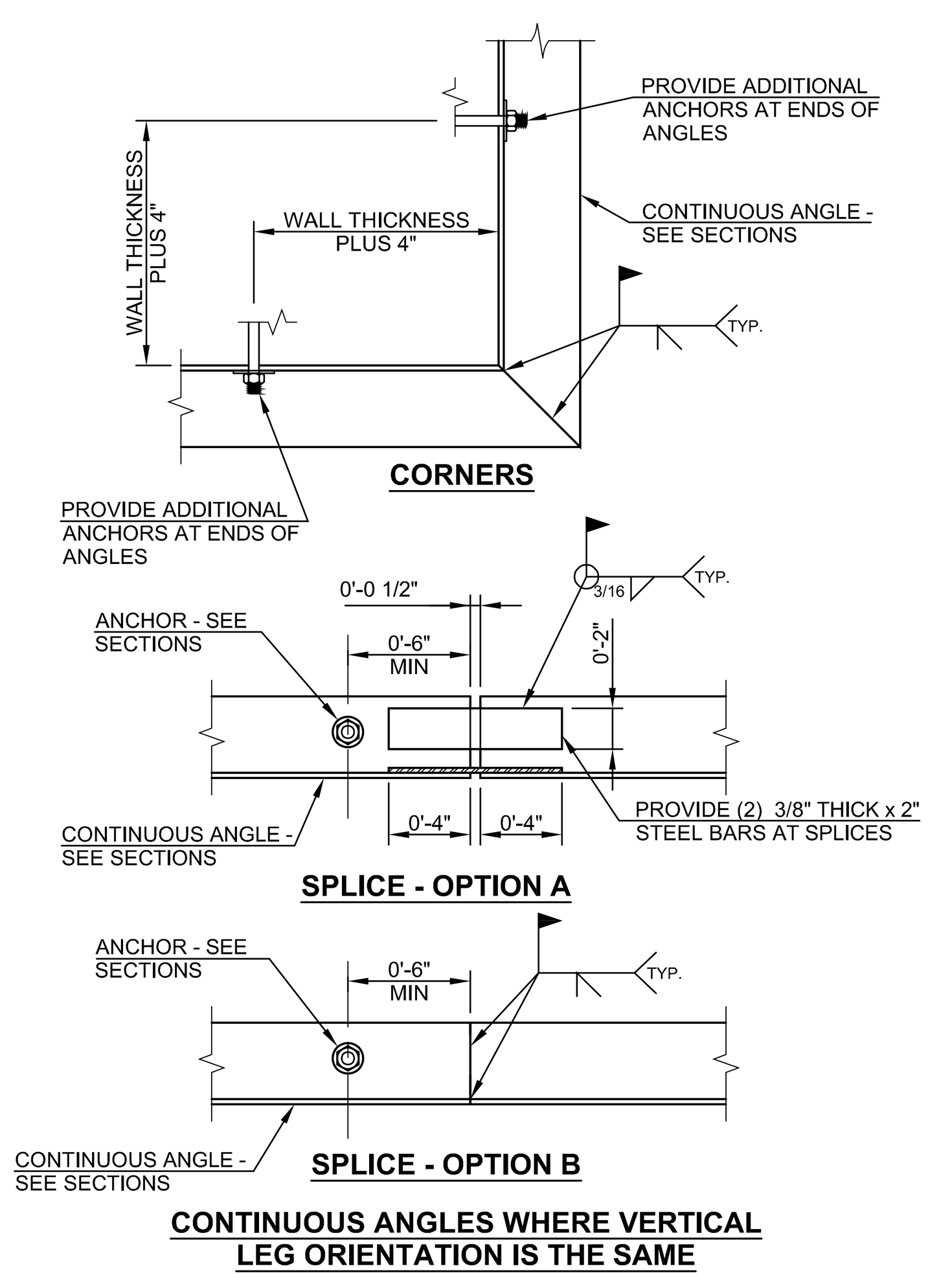


BRIDGING ANCHORS FOR K-SERIES JOISTS



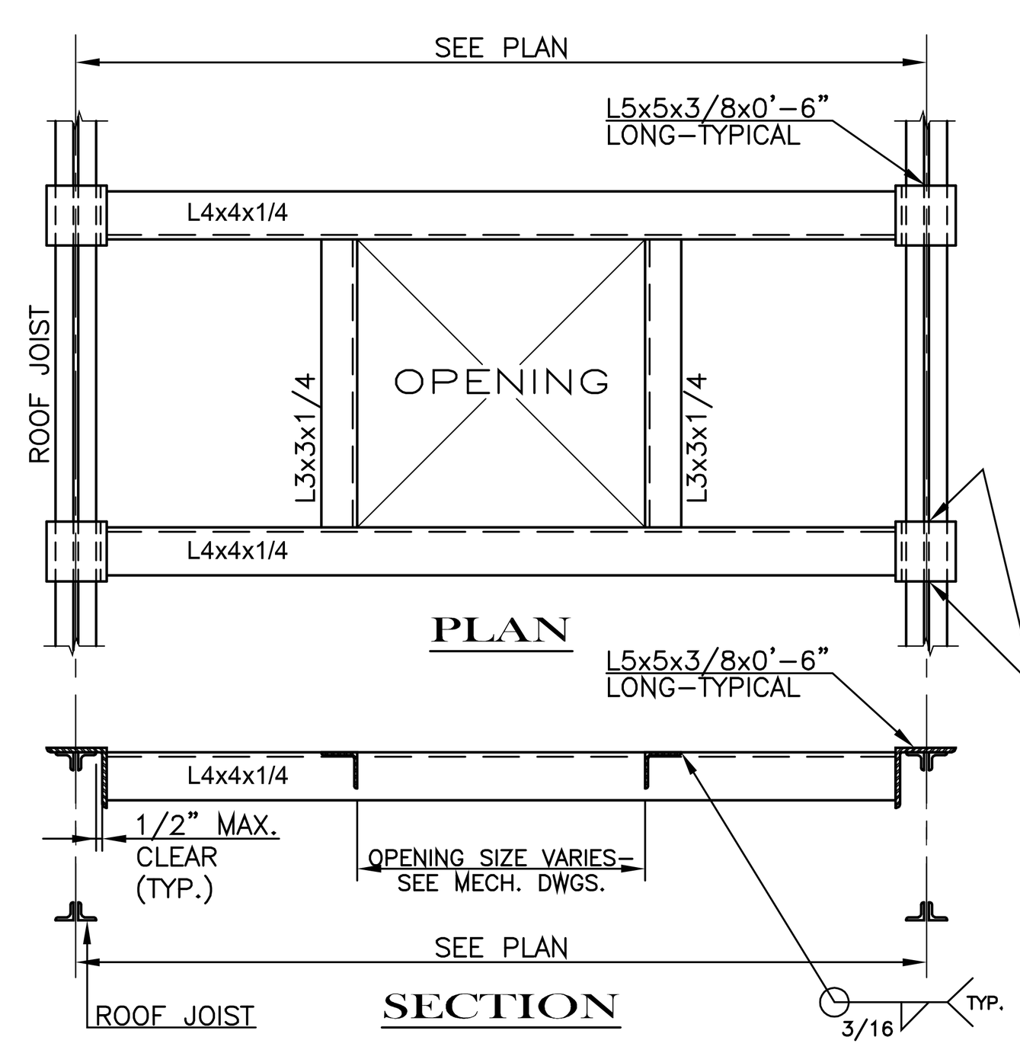
TYPICAL DETAIL AT CHANGES IN DECK DIRECTION

NOTE:
THIS DETAIL IS ALSO APPLICABLE WHERE DECK CHANGES OCCUR AT CHANGES IN DECK TYPES



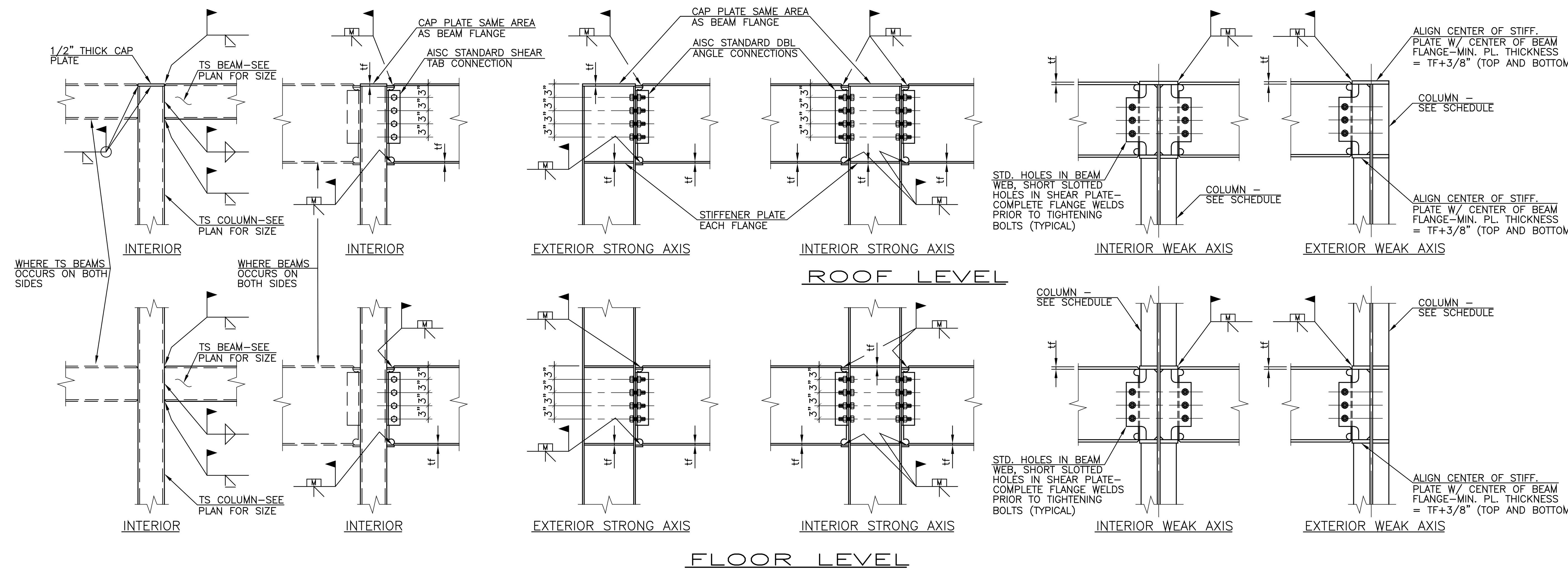
TYPICAL DETAIL AT CONTINUOUS ANGLES SUPPORTING METAL DECKS

NOTES:
1. AT ANGLE THICKNESS LESS THAN 3/8" , BUTT WELDS CAN BE SUBSTITUTED FOR BEVEL WELDS
2. WHERE SECTIONS DO NOT INDICATE ANCHORS, OMIT ANCHORS AND ANCHOR HOLES IN CONTINUOUS ANGLE WHERE SHOWN IN THIS DETAIL.



TYPICAL DETAIL AT ROOF OPENINGS

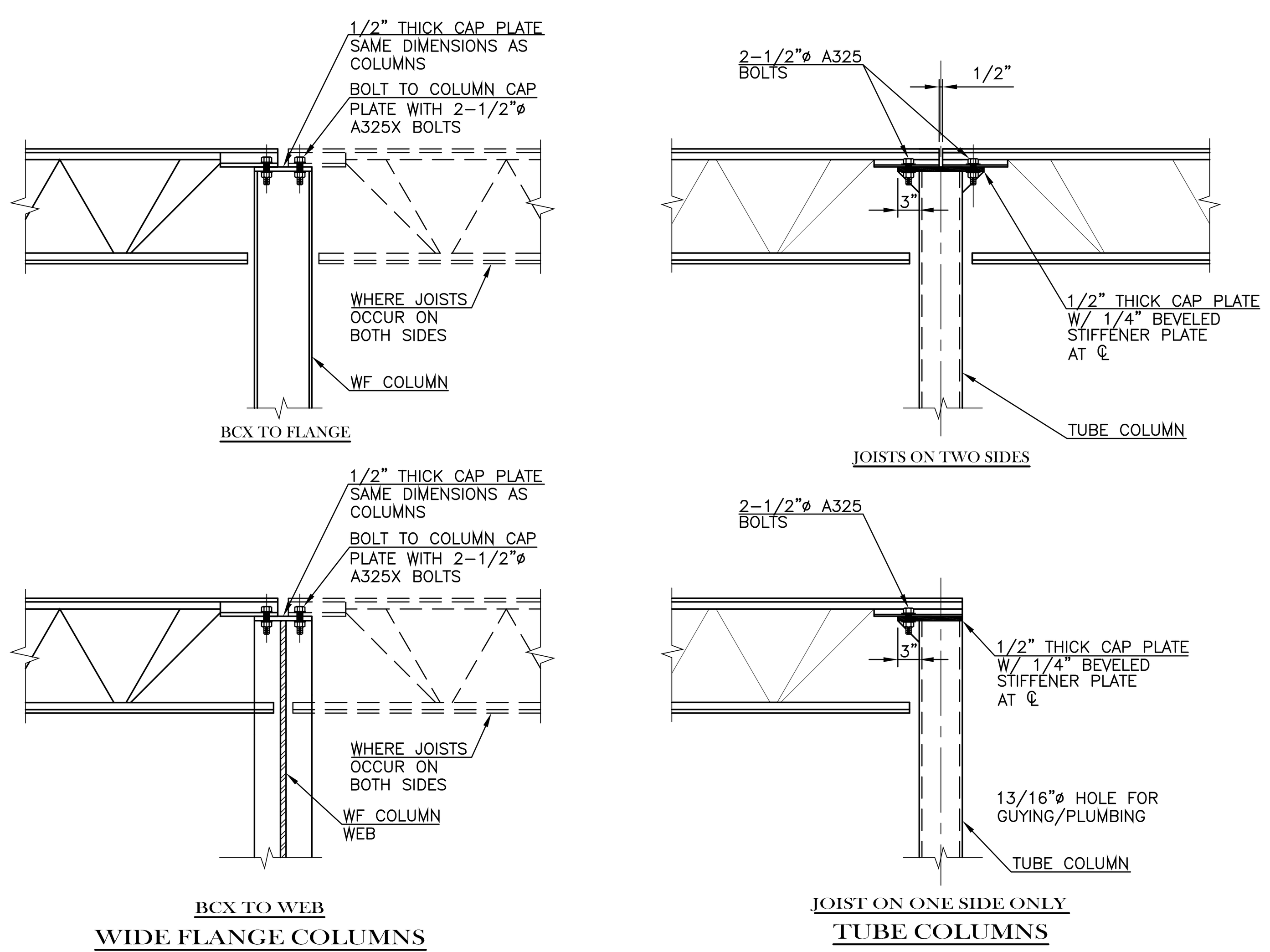
NOTE: N.T.S.
1. THIS DETAIL SHALL APPLY TO ALL ROOF OPENINGS OVER 8" IN EITHER DIRECTION AND THE SUPPORT OF ROOF DRAINS WHERE SPECIFIED ON ARCH. OR PLUMBING DRAWINGS.
2. COORDINATE SIZE AND LOCATION OF ROOF OPENING WITH MECHANICAL DRAWINGS.



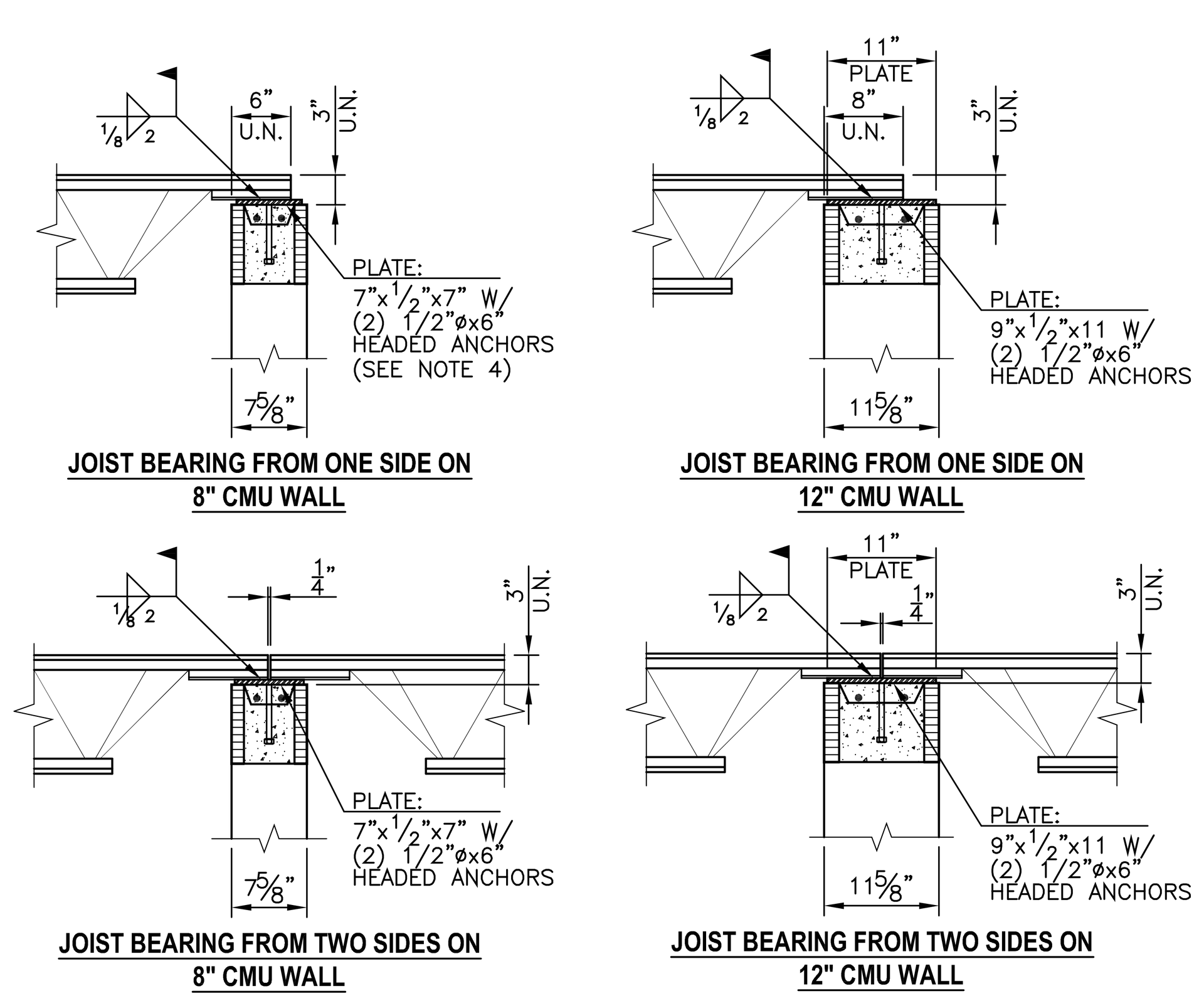
TYPICAL DETAIL AT MOMENT CONNECTIONS

(INDICATED AS ← ON PLAN)

NOTES:
1. ALL BOLTS SHALL BE ASTM 3/4"Ø (MIN.) H.S. BOLTS U.N., NUMBER OF BOLTS TO BE AS REQUIRED PER SPECIFICATIONS.
2. ALL MOMENT WELDS SHALL BE TESTED PER SPECIFICATIONS.
3. DO NOT SHOP PAINT SURFACES WITHIN 3" OF AREAS TO RECEIVE MOMENT WELDS. APPLY PRIMER PAINT TO WELDED AREAS AND ADJACENT STEEL SURFACES AFTER WELDS COMPLETED AND CLEANED. SEE SPECIFICATIONS.
4. CAP PLATE AND STIFFENER PLATE STEEL GRADES SHALL MATCH THE BEAM STEEL GRADES.
   ALTERNATE: WHERE THE PLATE IS 1.4 TIMES THICKER THAN THE BEAM FLANGE, THE PLATE STEEL GRADE MAY BE A36.

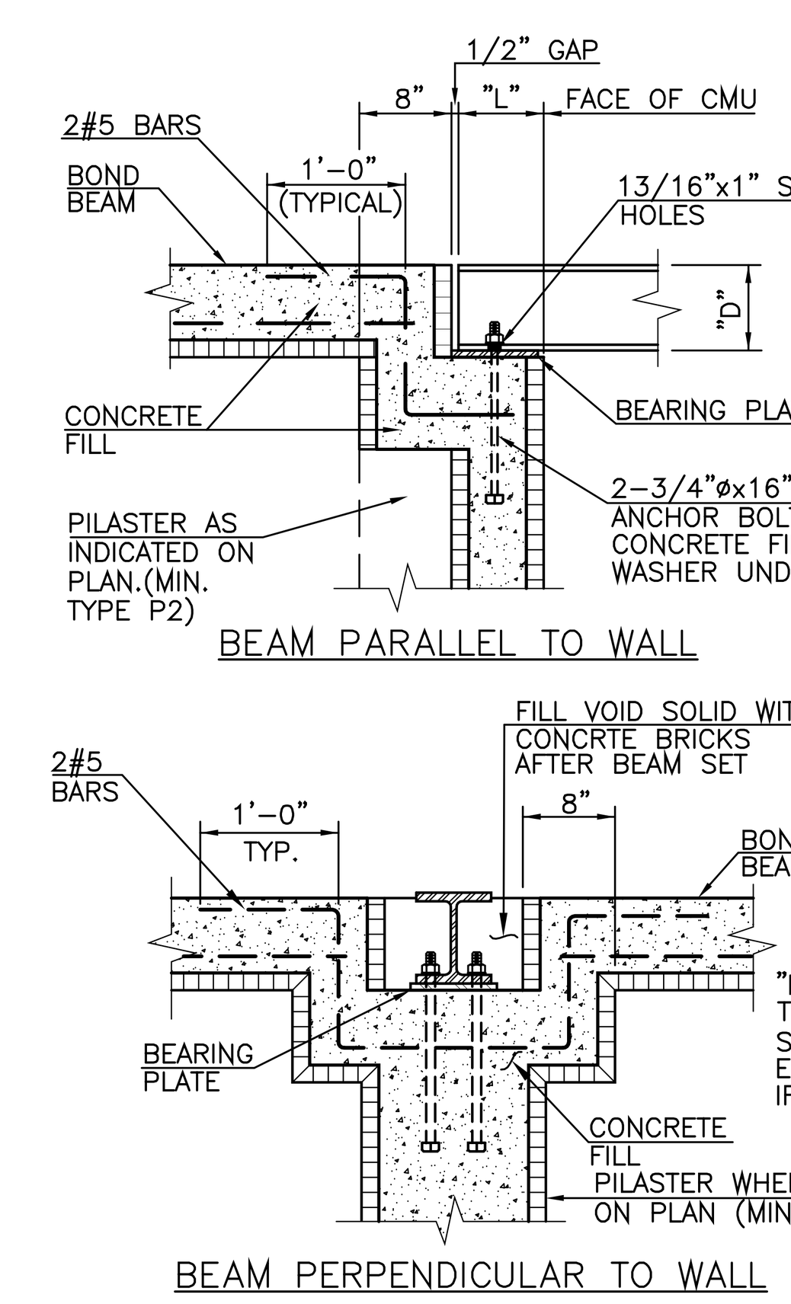


DETAIL OF JOISTS @ COLUMN



TYPICAL DETAIL AT JOISTS BEARING ON MASONRY WALL

NOTE:
1. WHERE DOUBLE JOIST (DJ) INDICATED ON PLAN, INCREASE PLATE DIMENSION PARALLEL TO WALL TO 14" (MIN.) AND PROVIDE (3) 1/2"Øx6"x2" ANCHORS.
2. EXTEND JOIST BOTTOM CHORDS TO 1/2" FROM FACE OF WALL WHERE REQ'D. FOR CEILING SUPPORT. COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. WHERE CHANNEL BLOCK TYPE BOND BEAMS ARE SHOWN CHANGE ANCHORS TO 1/2"Øx4"x2".
4. WHERE LH OR DLH JOISTS BEAR ON 8" CMU, INCREASE PLATE DIMENSION PERPENDICULAR TO JOISTS TO 9".



"D"	"L"	PLATE
TO 8"	8"	7 1/2"x1/2"x7 1/2"
9"-12"	16"	7 1/2"x5/8"x1'-0"
14"-16"	16"	7 1/2"x3/4"x1'-2"

"L" INDICATES LENGTH OF BEARING PARALLEL TO WALL. BEAMS PERPENDICULAR TO WALL SHALL BEAR FULL WIDTH LESS 2" IF MASONRY EXPOSED ON OPPOSITE FACE OR FULL WIDTH IF BRICK VENEERED ON OPPOSITE FACE.

TYPICAL BEAM BEARING ON WALL

(UNLESS DETAILED OTHERWISE)

NOTES:
1. NUTS SHALL BE HAND TIGHT ONLY.
2. PROVIDE LAYER OF 30 LB. BLDG. FELT BETWEEN BEAM AND BEARING PLATE.

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PROJECT # 21026 - PLOT DATE: S502.dwg 7/8/22 4:08 pm

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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 1056
FTE: 600

TYPICAL DETAILS

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

NO.	REVISION / SUBMISSIONS	DATE
6	PHASE 4	6/2022

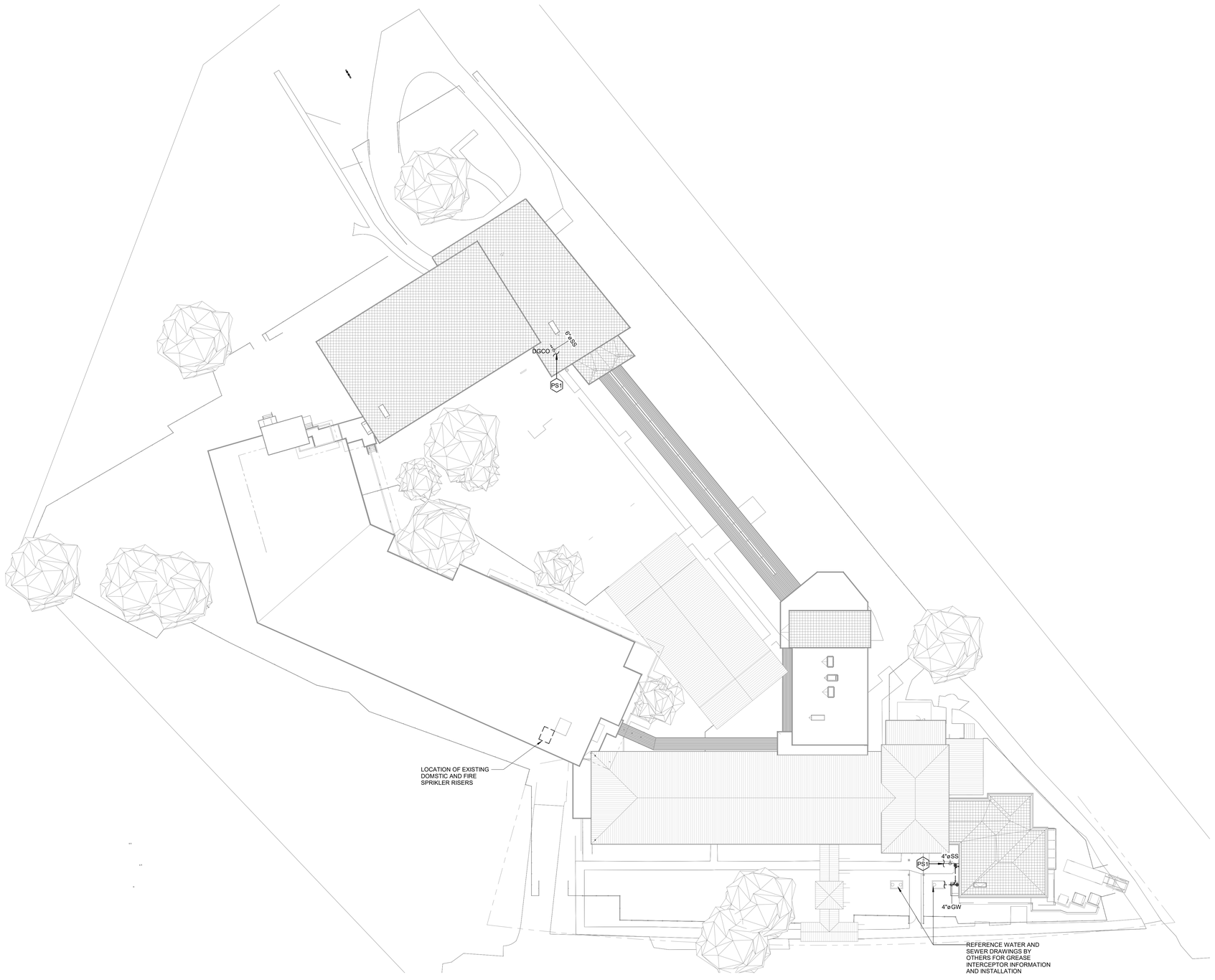
SHEET:
S502

PLUMBING REFERENCE NOTES

1. REFER TO SHEET P511 FOR PLUMBING DETAILS.
2. REFER TO SHEET P611 FOR PLUMBING SYMBOLS, SCHEDULES, AND RISERS.

PLUMBING SITE (PS) NOTES BY SYMBOL

PS1 REFER TO CIVIL DRAWINGS FOR CONTINUATION.



1 PLUMBING SITE PLAN - PHASE 4
P001 1" = 30'-0"

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 060
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

PLUMBING SITE PLAN

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
P001

9/27/2022 2:21:27 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPA/2021.rvt

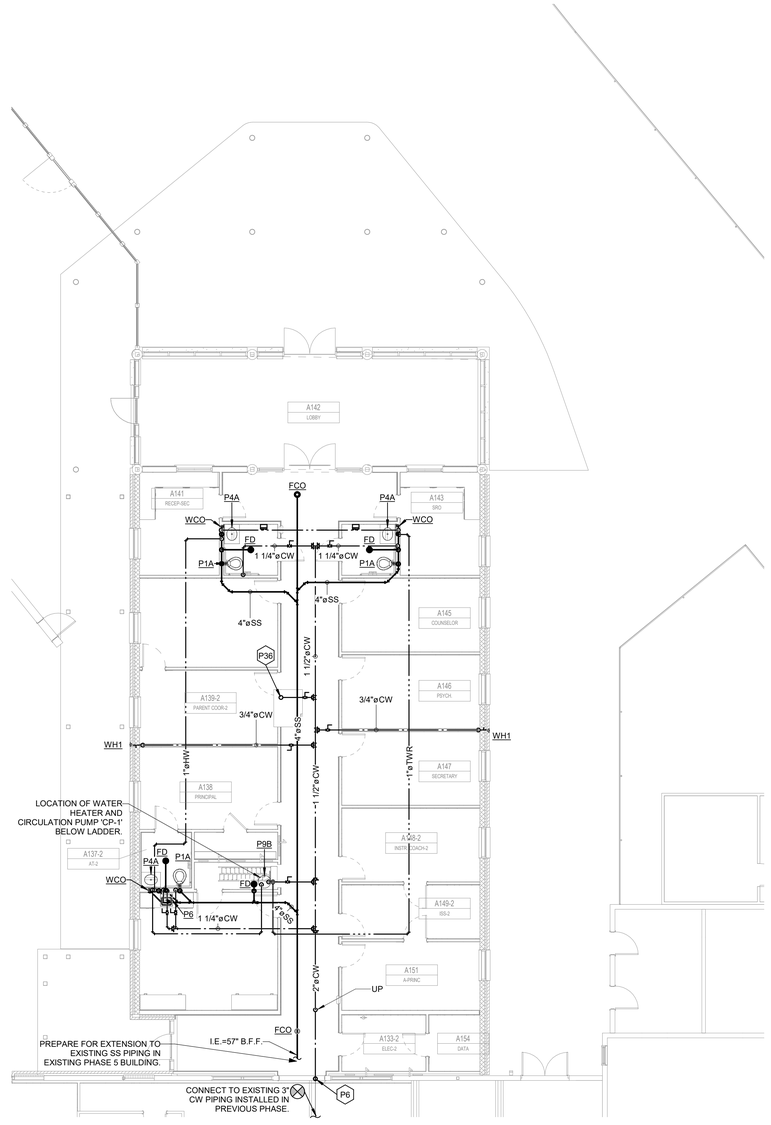
PLUMBING REFERENCE NOTES

1. REFER TO SHEET P511 FOR PLUMBING DETAILS.
2. REFER TO SHEET P611 FOR PLUMBING SYMBOLS, SCHEDULES, AND RISERS.

PLUMBING (P) NOTES BY SYMBOL

P6 TW PIPING FROM ABOVE DOWN TO ABOVE LEVEL 1 CEILING.

P36 CW PIPING TURNED UP FOR CONNECTION TO ROOF HYDRANT. REFER TO DETAIL 10/P501 FOR MORE INFORMATION.



1 PLUMBING PLAN - ADMINISTRATION ADDITION
P201 1/8" = 1'-0"

DP CE
1301 Solana Blvd.
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SYSTEM CODE: 060
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FTE: 693

ISSUED FOR:
DATE: 09/26/2022
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PLUMBING PLAN - ADMINISTRATION ADDITION

NO.	REVISION / SUBMISSIONS	DATE

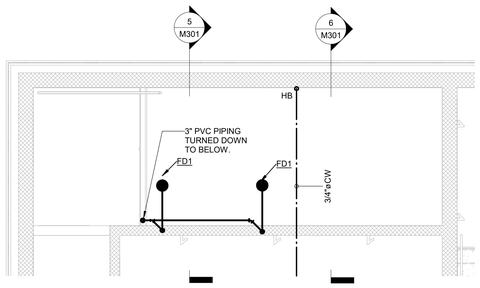
SHEET:
P201

PLUMBING REFERENCE NOTES

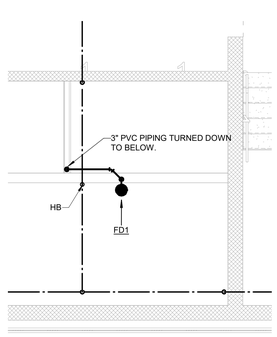
1. REFER TO SHEET P511 FOR PLUMBING DETAILS.
2. REFER TO SHEET P611 FOR PLUMBING SYMBOLS, SCHEDULES, AND RISERS.

PLUMBING (P) NOTES BY SYMBOL

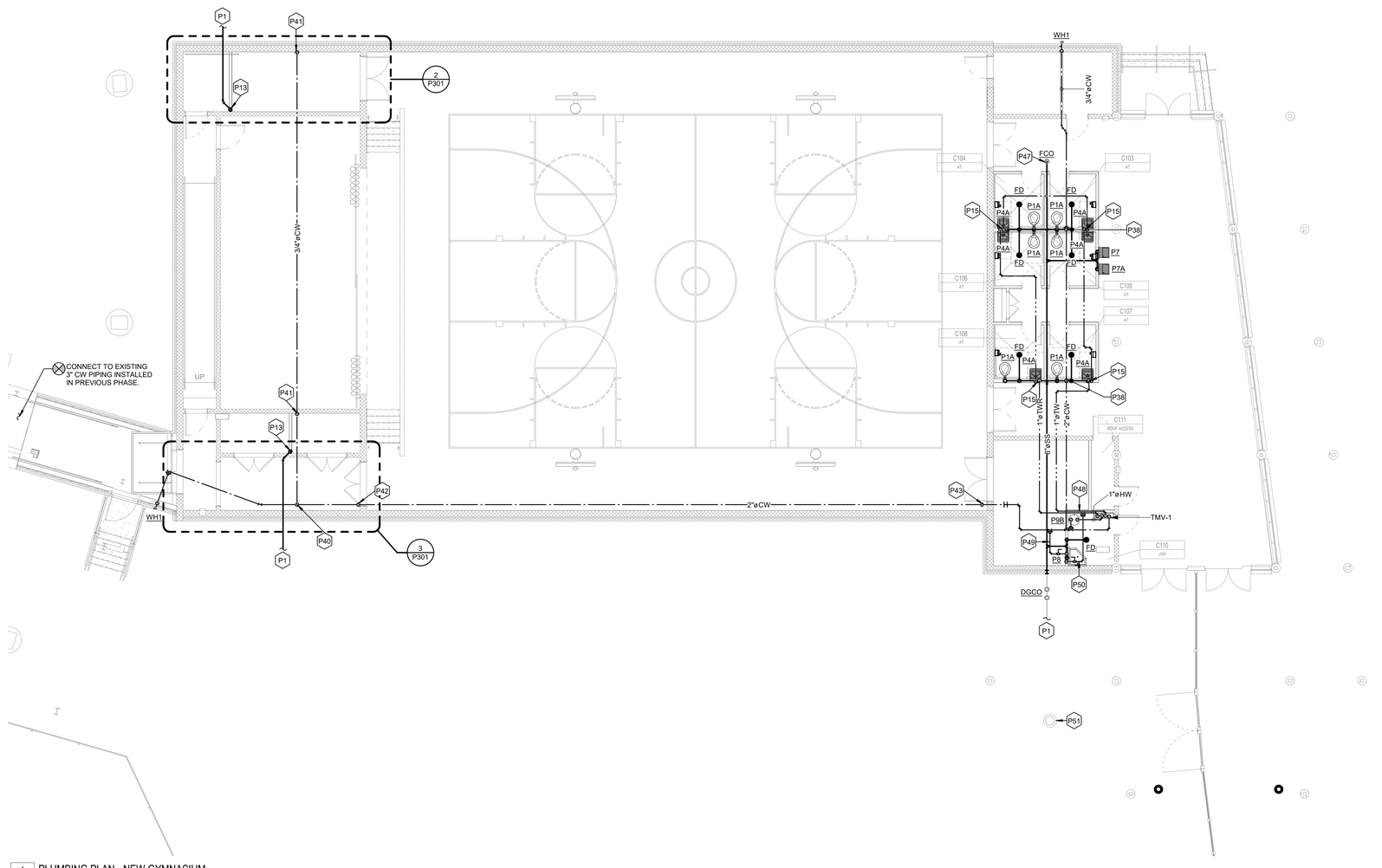
P1	REFER TO CIVIL DRAWINGS FOR CONTINUATION.
P13	3" PVC PIPING FROM ABOVE DOWN TO BELOW SLAB. ROUTE TO STORM DRAINAGE SYSTEM ON SITE.
P15	TW LOOP TURNED DOWN INTO CHASE BELOW FOR CONNECTION TO FIXTURE. CONTINUE TO BACK ABOVE LEVEL 1 CEILING.
P38	2" CW PIPING DOWN TO TOILETS BELOW.
P40	3/4" CW PIPING TURNED UP TO ABOVE MEZZANINE LEVEL. ROUTE AS INDICATED.
P41	CW PIPING TURNED DOWN TO HOSE BIB BELOW.
P42	CW PIPING TURNED UP. ROUTE CLOSE TO STRUCTURE ACROSS GYM.
P43	CW TURNED DOWN TO ABOVE LOBBY AREA CEILING.
P47	SEE CIVIL INVERT DRAWING WS1.
P48	SEE A133C FOR MORE INFORMATION.
P49	CW ABOVE STORE C112 CEILING TO MOP SINK.
P50	TW ABOVE CEILING JAN. C110 TO MOP SINK.
P51	MH1 SEE CIVIL INVERT DRAWING WS1.



2 P301 PLUMBING PLAN - GYMNASIUM - NORTH MEZZ
1/4" = 1'-0"



3 P301 PLUMBING PLAN - GYMNASIUM - SOUTH MEZZ
1/4" = 1'-0"



1 P301 PLUMBING PLAN - NEW GYMNASIUM
1/8" = 1'-0"

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1301 Solana Blvd.
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Westlake, TX 76262
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ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

PLUMBING PLAN - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
P301

PLUMBING REFERENCE NOTES

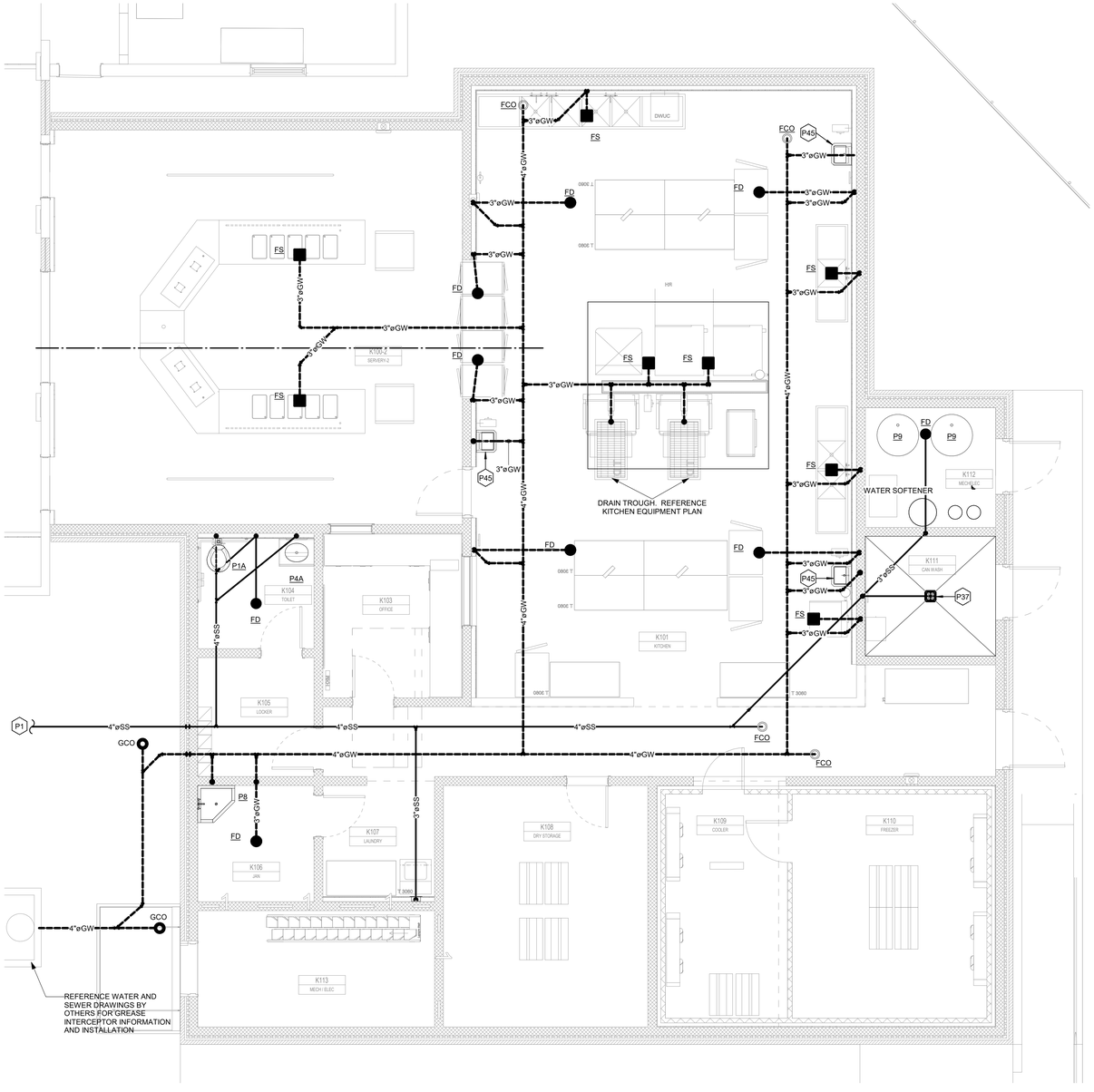
1. REFER TO SHEET P511 FOR PLUMBING DETAILS.
2. REFER TO SHEET P611 FOR PLUMBING SYMBOLS, SCHEDULES, AND RISERS.

PLUMBING (P) NOTES BY SYMBOL

P1 REFER TO CIVIL DRAWINGS FOR CONTINUATION.

P37 ZURN 1982 SANI-FLOOR CAN WASH DRAIN.

P45 PLUMBING FIXTURE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.



1 PLUMBING PLAN - KITCHEN DWV
P401 1/4" = 1'-0"

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1301 Solana Blvd.
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Westlake, TX 76262
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SYSTEM CODE: 663
SCHOOL CODE: 0310
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ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

PLUMBING PLAN - KITCHEN ADDITION DWV

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
P401

PLUMBING REFERENCE NOTES

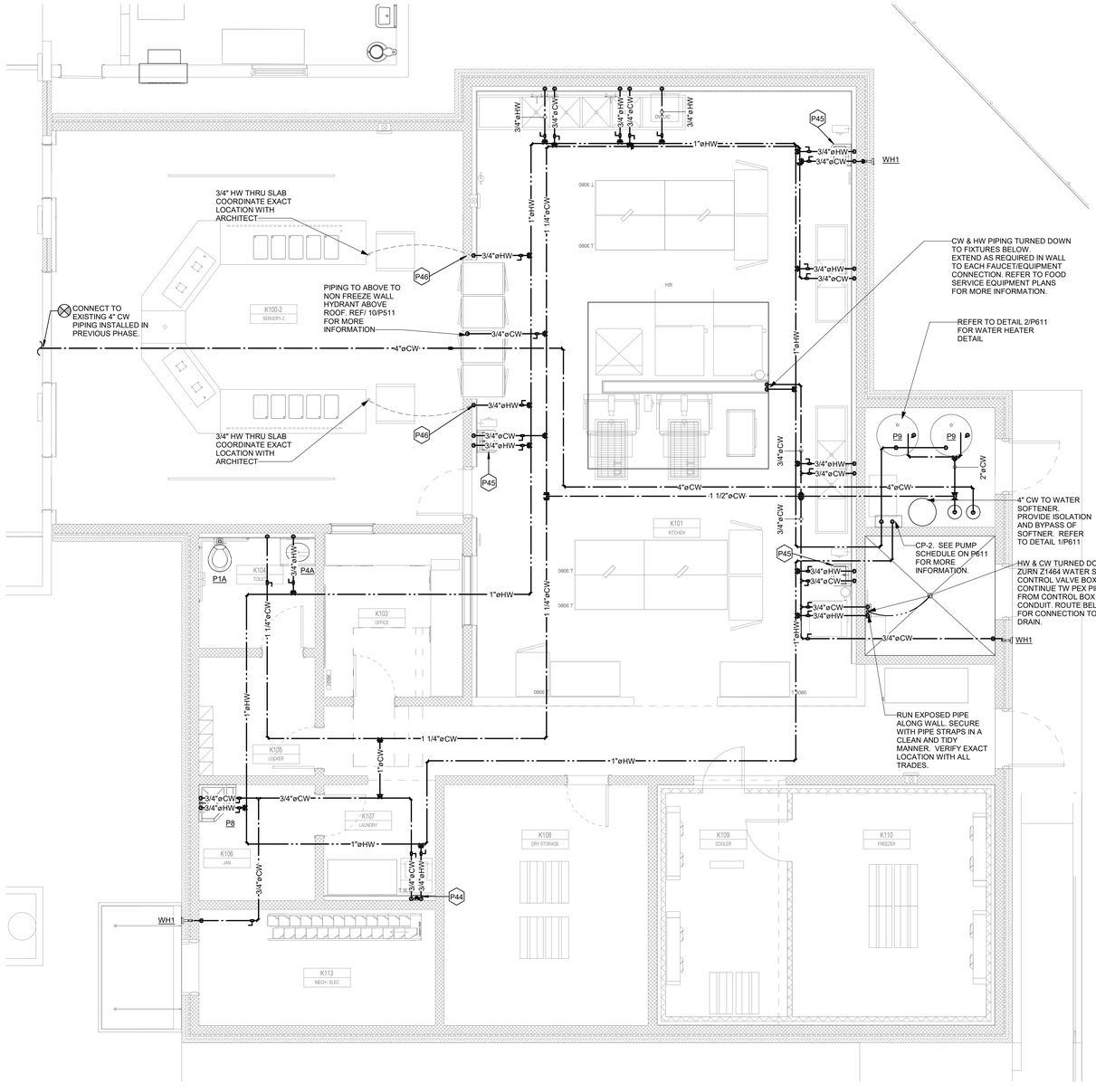
1. REFER TO SHEET P511 FOR PLUMBING DETAILS.
2. REFER TO SHEET P611 FOR PLUMBING SYMBOLS, SCHEDULES, AND RISERS.

PLUMBING (P) NOTES BY SYMBOL

P44 3/4" COLD & 3/4" TEMPERED/HOT WATER DOWN TO STAINLESS STEEL WASHER BOX, EQUAL TO "ACORN - 818;"

P45 PLUMBING FIXTURE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.

P46 PEX HOT WATER LINE RAN IN 1 1/2" CONDUIT UNDER SLAB.



1 PLUMBING PLAN - KITCHEN SUPPLY
P402 1/4" = 1'-0"

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CAPITAL OUTLAY PROJECT # TBD:
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SCHOOL CODE: 0310
FTE: 693
ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

PLUMBING PLAN - KITCHEN ADDITION SUPPLY

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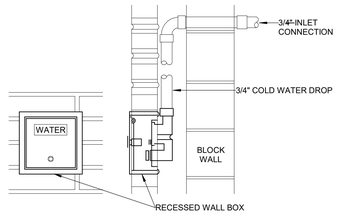
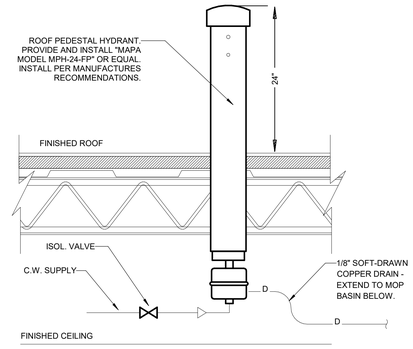
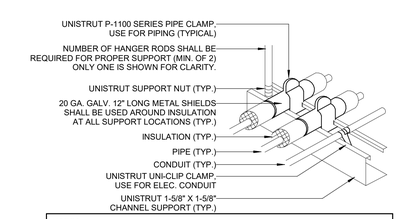
SHEET:
P402



11 P901 WALL HYDRANT DETAIL
N.T.S.



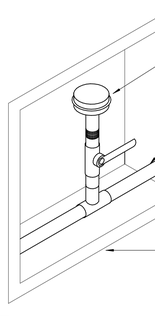
10 P901 ROOF HYDRANT DETAIL
N.T.S.

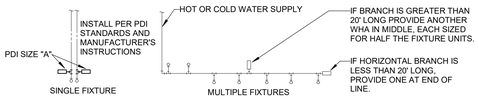


NOTES:

1. ALL PIPE CONDUIT, ETC. OF ALL TRADES SHALL BE COMBINED ON SAME SUPPORT CHANNEL WHERE PRACTICAL.
2. SUPPORT CHANNEL LENGTH SHALL NOT BE DETERMINED UNTIL ALL PIPING, CONDUIT, ETC. TO BE SUPPORTED IS COORDINATED.
3. SUPPORT CHANNEL SPACING SHALL BE NO MORE THAN 10'-0"

9 P901 PIPE SUPPORT DETAIL - ABOVE CEILING
N.T.S.



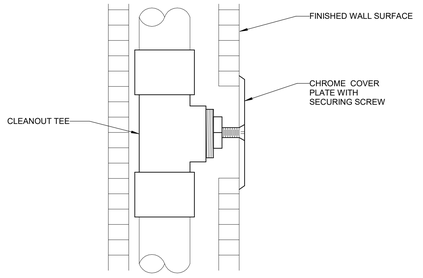


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

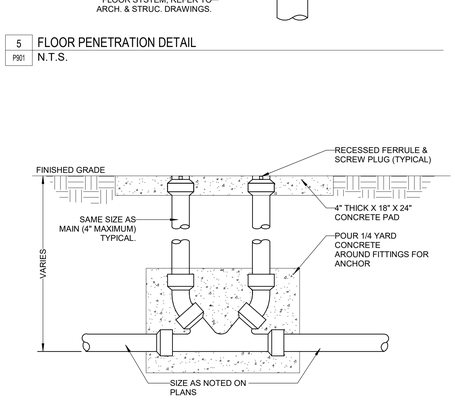
FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE AIR CHAMBERS OR WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS

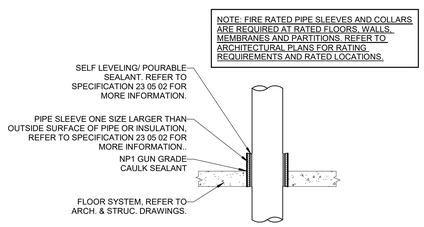
8 P901 WATER HAMMER ARRESTOR DETAIL
N.T.S.



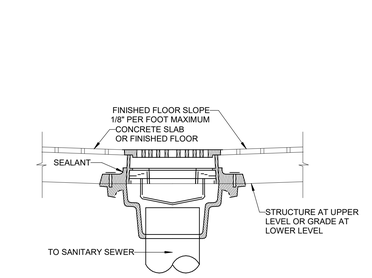
7 P901 WALL CLEANOUT DETAIL
N.T.S.



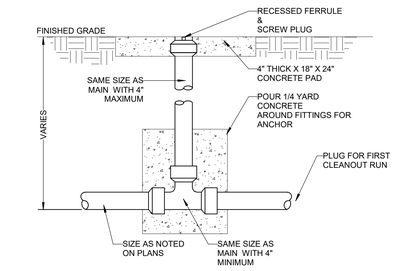
3 P901 TWO-WAY GRADE CLEANOUT DETAIL
N.T.S.



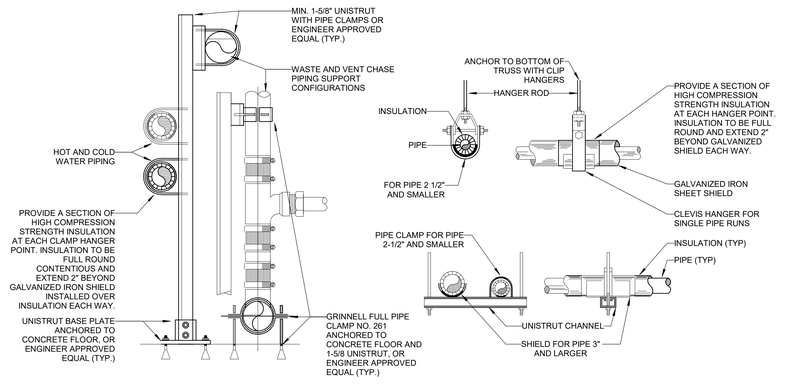
5 P901 FLOOR PENETRATION DETAIL
N.T.S.



6 P901 FLOOR DRAIN DETAIL
N.T.S.



4 P901 SAMPLE TEE DETAIL
N.T.S.



1 P901 PIPE SUPPORT DETAILS
N.T.S.

GEORGIA REGISTERED No. 23205 PROFESSIONAL ENGINEER D. J. PENN

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
www.johntuten.com

ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT #: TBD
SYSTEM CODE: 860
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

PLUMBING DETAILS

NO.	REVISION / SUBMISSIONS	DATE

DPCE
1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
817-410-2858
WWW.DONPENN.COM

SHEET: P901

TEMPERED WATER / HOT WATER PUMP SCHEDULE

PUMP MODEL	GPM FLOW	MANUFACTURER	MODEL NUMBER	RATED HP	HEAD FT.	VOLT/PH	CONTROL	COMMENTS
CP-1	15	GRUNDFOS	UP15-10BJ	1/25	20	208V/1	TIMER	1,2,3
CP-2	32	GRUNDFOS	TP32-160	3/4	40	208V/1	TIMER	1,2,3

1. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
2. PROVIDE "HAND-OFF-AUTO" SWITCH FOR PUMP CONTROL.
3. PROVIDE ASTRONOMICAL TIMECLOCK FOR PUMP CONTROL.

PLUMBING FIXTURE CONNECTION SCHEDULE

DESCRIPTION	HOT/TEMP. WATER	COLD WATER	TRAP	WASTE	VENT
WATER CLOSET	-	1	-	4	2
URINAL	-	3/4	-	2	2
LAVATORY	1/2	1/2	1-1/4	2	1-1/2
SINK	1/2	1/2	1-1/2	2	1-1/2
ELECTRIC WATER COOLER/DRINKING FOUNTAIN	-	1/2	1-1/4	2	1-1/2
MOP SINK	1/2	1/2	2	2	2
WATER HEATER (GAS)	NA	NA	-	-	-
WATER HEATER (ELECTRIC)	3/4	3/4	-	-	-
SHOWER	3/4	3/4	2	2	1-1/2
FLOOR DRAIN	-	-	3	3	1-1/2
FLOOR SINK	-	-	3	3	2
HUB DRAIN	-	-	3	3	2
WALL HYDRANT	3/4	3/4	-	-	-
HOSE BIB	-	3/4	-	-	-

- REFER TO SPECIFICATIONS FOR FIXTURE TYPE AND CONFIGURATION.
- REFER TO PLUMBING PLANS AND RISERS FOR ADDITIONAL LINE SIZES.
- REFER TO ARCHITECTS DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS.

PLUMBING SYMBOL LEGEND

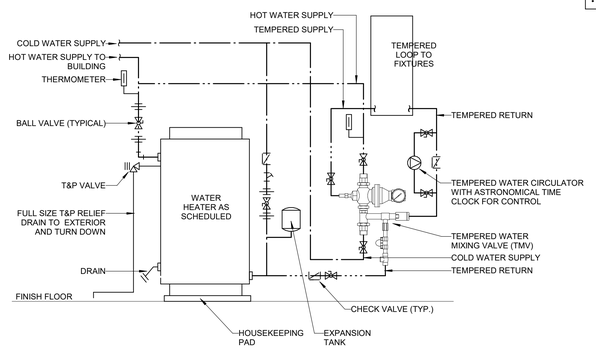
SYMBOL	DESCRIPTION
	SANITARY SEWER
	ACID WASTE PIPING
	COLD WATER
	HOT WATER
	TEMPERED WATER
	HOT WATER RETURN
	VENT
	GAS PIPING
	GAS PIPING - SLEEVED AND VENTED (ALL INTERIOR GAS PIPING)
	CONDENSATE DRAIN
	END CAP
	BALL VALVE
FD	FLOOR DRAIN
FS	FLOOR SINK
FS1	FLOOR SINK
WCO	WALL CLEAN OUT
CO	CLEAN OUT
YCO	YARD CLEAN OUT
FCO	FLOOR CLEAN OUT
WH	WALL HYDRANT(NON-FREEZE, LOCKABLE)
WH1	WALL HYDRANT (MODERATE CLIMATE, LOCKABLE)
VTR	VENT THRU ROOF
BFP	BACK FLOW PREVENTER
RD	ROOF DRAIN
OD	EMERGENCY OVERFLOW DRAIN
PXX	PLUMBING FIXTURE IDENTIFICATION TAG. REFER TO SPECIFICATION FOR FIXTURE TYPE AND CONFIGURATION.

NOTES BY SYMBOL (THIS SHEET ONLY)

1. FROM COLD WATER PIPING ABOVE CEILING.*
2. FROM TEMPERED WATER PIPING ABOVE CEILING.* **
3. TO SANITARY SEWER PIPING.*
4. HAMMER ARRESTOR, TYPICAL. INSTALL PER MANUFACTURER REQUIREMENTS.

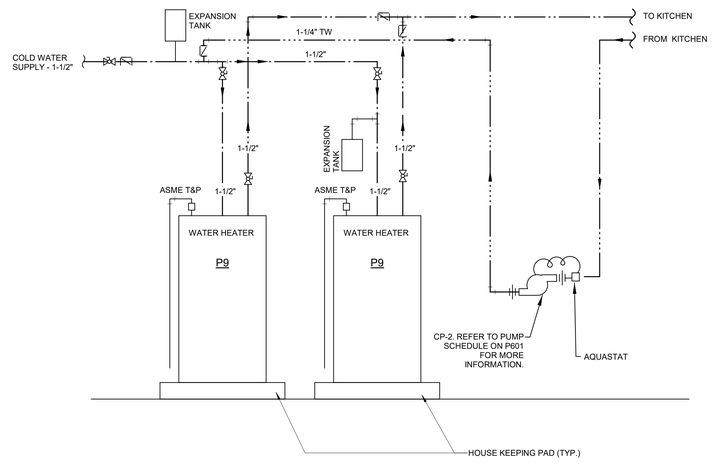
* SEE PLAN VIEW DRAWINGS FOR CONTINUATIONS.
** TEMPERED WATER (TW) UNLESS NOTED OTHERWISE (UNO).

PLUMBING RISER NOTES
- PROVIDE TRAP PRIMING TO ALL FLOOR DRAINS. INSTALL ABOVE CEILING.
- INSTALL WALL CLEANOUT AT END OF ALL SANITARY SEWER RUNS.
- TERMINATE EACH CW/TW/HW FIXTURE CONNECTION WITH 3/8" STOP VALVE.
- OPPOSITE HAND SIMILAR, UNO.

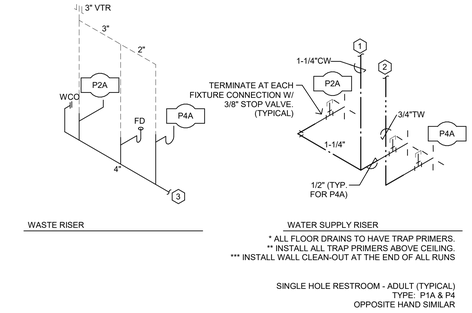


NOTES:
1. REFER TO SPECIFICATIONS FOR ALL EQUIPMENT.
2. REFER TO TEMPERED WATER MIXING VALVE MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.
3. PLUMB SYSTEM PER MANUFACTURER'S PIPING SCHEMATIC.
4. MOUNT PUMP AND ALL PIPING ON UNI-STRUT.
5. PROVIDE 2" DIA. VALVES 0-250dF SCALE.

5 HOT/TEMPERED WATER PIPING DETAIL - TMV
P902 N.T.S.



2 WATER HEATER DETAIL
P902 N.T.S.



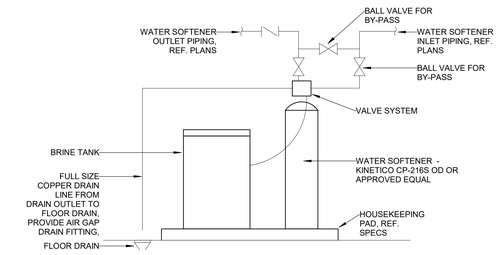
WASTE RISER

WATER SUPPLY RISER

* ALL FLOOR DRAINS TO HAVE TRAP PRIMERS.
** INSTALL ALL TRAP PRIMERS ABOVE CEILING.
*** INSTALL WALL CLEAN-OUT AT THE END OF ALL RUNS

SINGLE HOLE RESTROOM - ADULT (TYPICAL)
TYPE: P1A & P4
OPPOSITE HAND SIMILAR

3 PLUMBING RISER DIAGRAM - SINGLE HOLE RESTROOM
P902 N.T.S.



NOTES:
1. MOUNT ALL PIPING EXPOSED ON WALL.
2. MOUNT BY-PASS VALVE 75"AFF (MIN)
3. SOFTENER SYSTEM BY KITCHEN EQUIPMENT SUPPLIER, ALL PIPING AND FINAL CONNECTION BY PLUMBING CONTRACTOR.

1 TYPICAL WATER SOFTENER PIPING DETAIL
P902 N.T.S.

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
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GEORGIA REGISTERED No. 23205 PROFESSIONAL ENGINEER D. J. PENN

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PLUMBING NOTES, SYMBOLS, DETAILS AND SCHEDULES

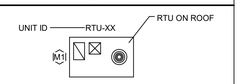
SHEET: P902

MECHANICAL REFERENCE NOTES

1. REFER TO SHEET M511-M512 FOR DETAILS.
2. REFER TO SHEET M611 FOR MECHANICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET M612-M613 FOR CONTROL SEQUENCES OF OPERATION AND DIAGRAMS.

TYPICAL SYMBOLS

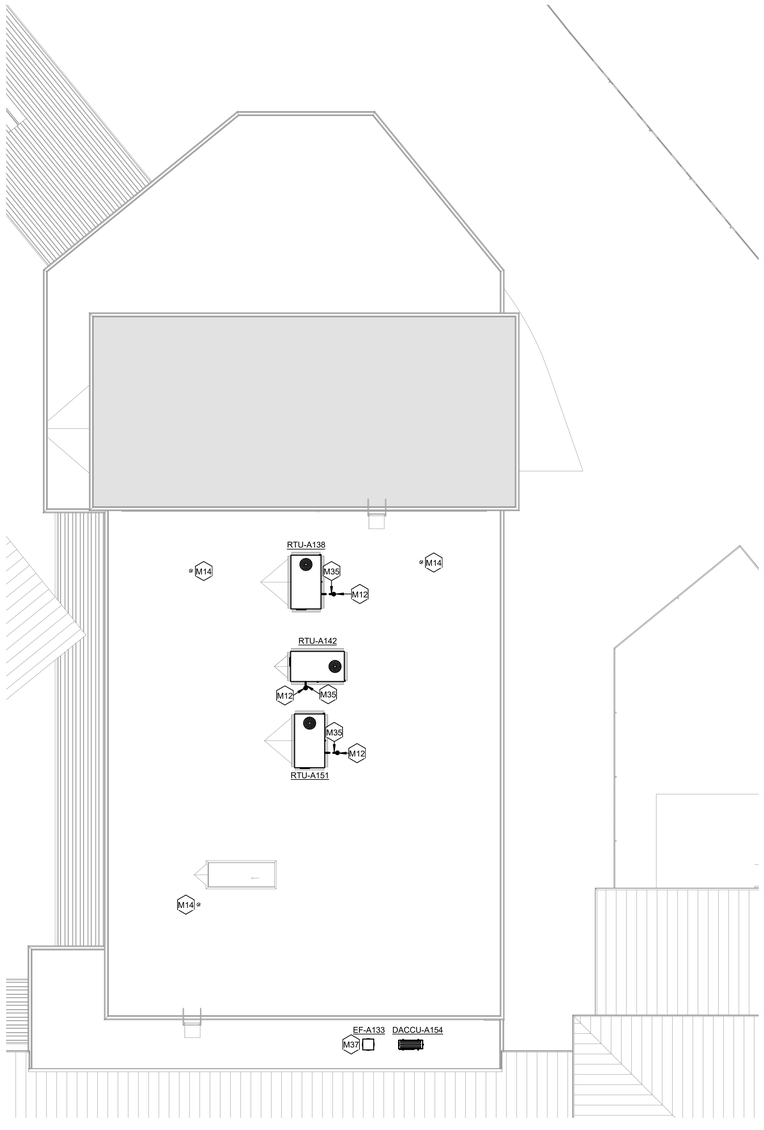
TYPICAL GRILLES (U.O.N.)



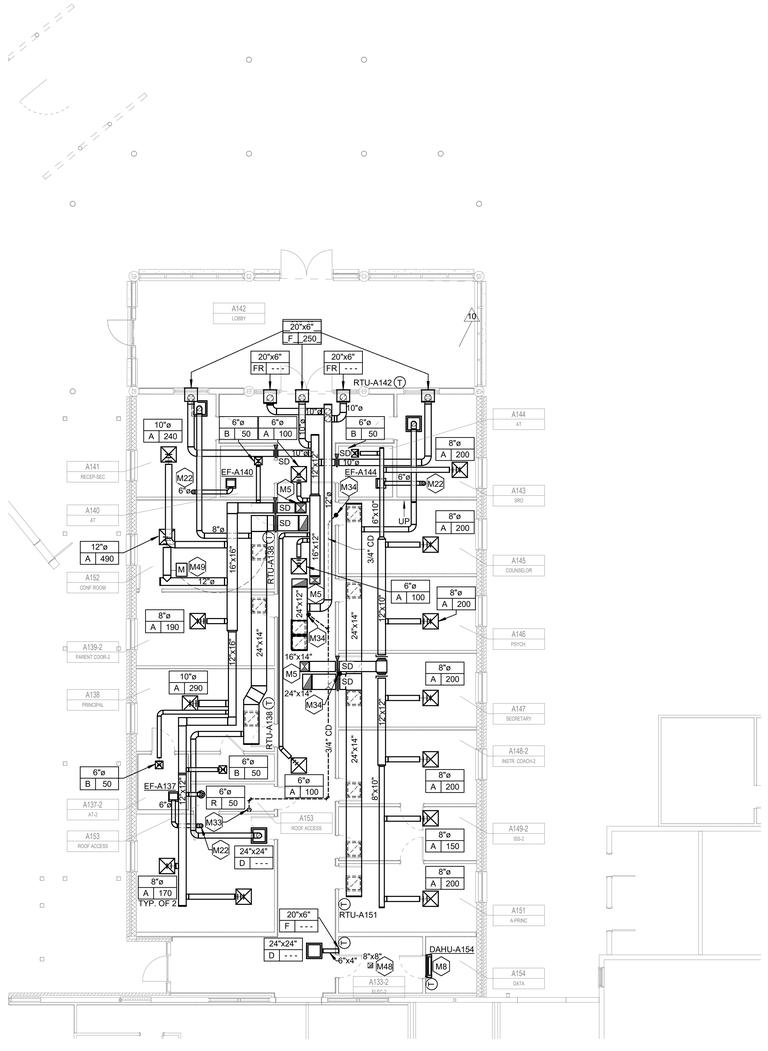
ROOF TOP UNIT DESIGNATION (TYPICAL)

MECHANICAL (M) NOTES BY SYMBOL

M5	SUPPLY/RETURN DUCT TO/FROM PACKAGED UNIT ON ROOF. REFER TO 1/M302.
M8	DUCTLESS SPLIT SYSTEM AIR HANDLING MOUNTED CENTERED ABOVE DOOR AT APPROXIMATELY 8'-0" AFF. SIZE AND ROUTE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S GUIDELINES. REFER TO 1/M905 FOR SEQUENCE OF OPERATON.
M12	CONDENSATE PIPING TO DISCHARGE INTO RAIN GUTTER AT THIS APPROXIMATE LOCATION.
M14	EXHAUST DUCT DOWN THROUGH ROOF. FLASH PER ARCHITECT'S INSTRUCTION. COORDINATE ROOF PENETRATION WITH STRUCTURAL ENGINEER AND SEAL WEATHER TIGHT. REFER TO 3/M901.
M22	EXHAUST DUCT UP THROUGH ROOF. FLASH PER ARCHITECT'S INSTRUCTION. COORDINATE ROOF PENETRATION WITH STRUCTURAL ENGINEER AND SEAL WEATHER TIGHT. REFER TO 2/M201.
M33	CONDENSATE PIPING ROUTED TO FLOOR DRAIN. REFER TO PLUMBING PLANS FOR DRAIN LOCATIONS.
M34	CONDENSATE PIPING FROM ROOF TO ABOVE LEVEL 1 CEILING. ROUTE AS INDICATED.
M35	EXTEND FULL SIZE CONDENSATE LINE FROM UNIT ON ROOF. PROVIDE AIR SEAL P-TRAP. REFER TO 2/M602.
M37	PROVIDE NEW ROOF MOUNTED EXHAUST FAN. INSTALL PER MANUFACTURER'S IOM AND MAINTAIN A MINIMUM OF 10' CLEARANCE BETWEEN FRESH AIR INTAKE AND ALL EXHAUST VENT LOCATIONS. REFER TO 4/M902.
M48	EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN. REFER TO 2/M201.
M49	MOTORIZED DAMPER CONTROLLED BY LOCAL ROOM TSTAT.



2 MECHANICAL ROOF PLAN - ADMINISTRATION BUILDING
M201 1/8" = 1'-0"



1 MECHANICAL PLAN - ADMINISTRATION ADDITION
M201 1/8" = 1'-0"

DP CE
1301 Solana Blvd.
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Westlake, TX 76262
817-410-2858
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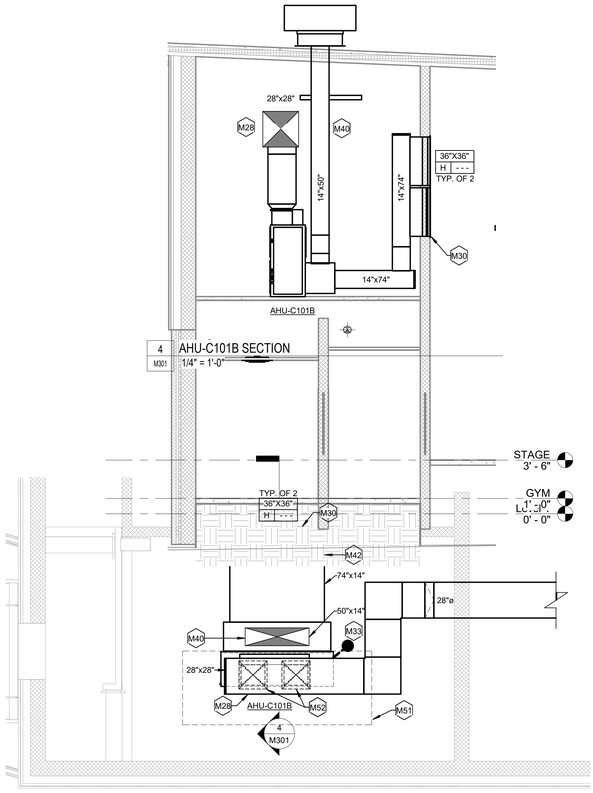
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

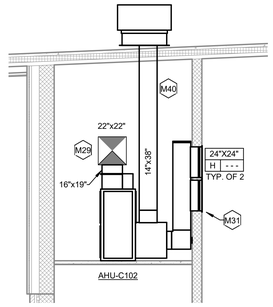
NO.	REVISION / SUBMISSIONS	DATE
1	REVISION 01	08/31/22

MECHANICAL PLANS - ADMINISTRATION ADDITION

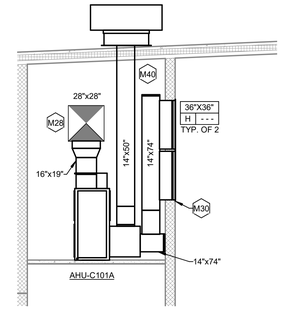
SHEET:
M201



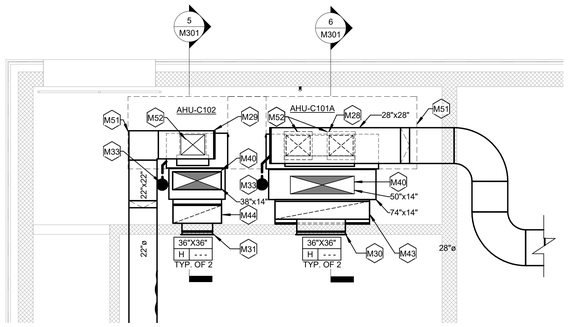
4 AHU-C101B SECTION
M301 1/4" = 1'-0"



5 AHU-C102 SECTION
M301 1/4" = 1'-0"

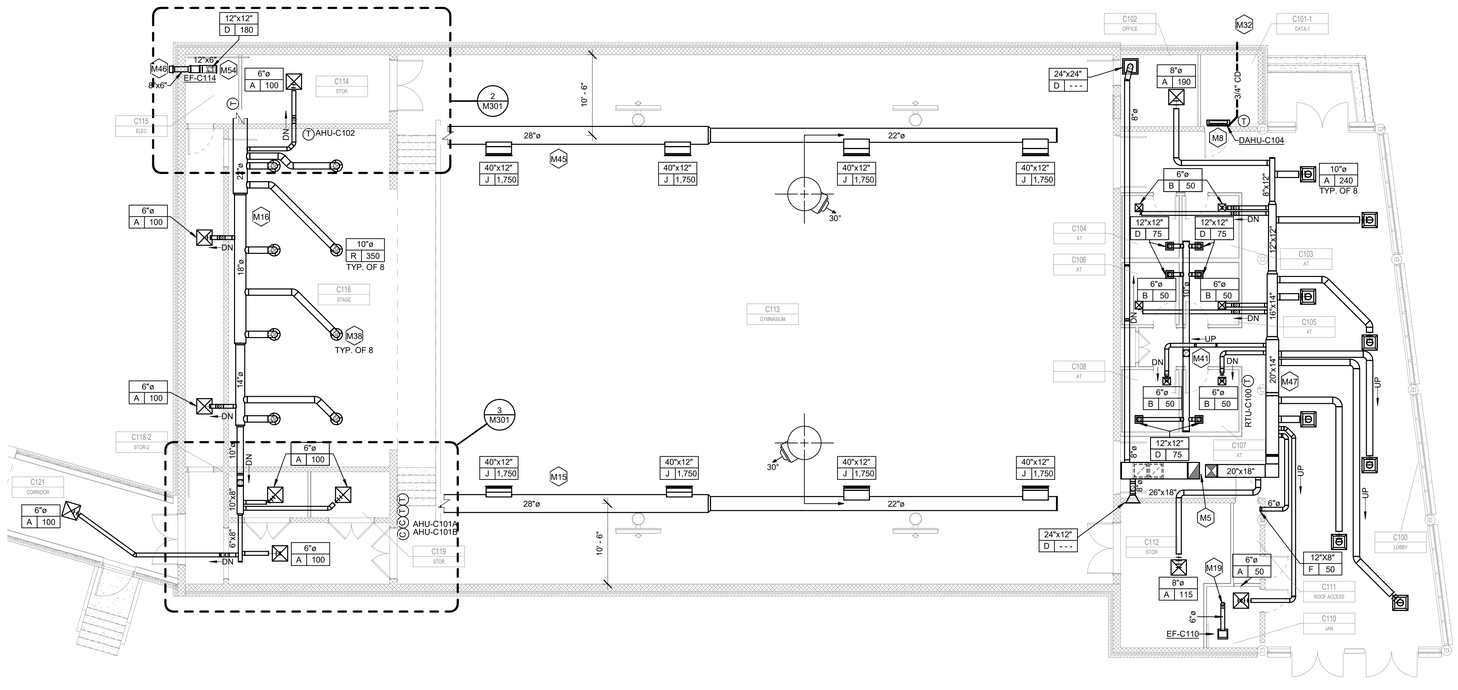


6 AHU-C101A SECTION
M301 1/4" = 1'-0"



2 MECHANICAL ENLARGED PLAN - GYMNASIUM - MEZZ 202
M301 1/4" = 1'-0"

3 MECHANICAL ENLARGED PLAN - GYMNASIUM - MEZZ 201
M301 1/4" = 1'-0"

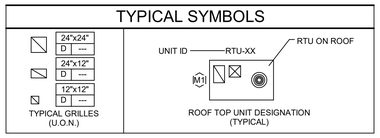


1 MECHANICAL PLAN - NEW GYMNASIUM
M301 1/8" = 1'-0"

MECHANICAL REFERENCE NOTES

1. REFER TO SHEET M511-M512 FOR DETAILS.
2. REFER TO SHEET M611 FOR MECHANICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET M612-M613 FOR CONTROL SEQUENCES OF OPERATION AND DIAGRAMS.

TYPICAL SYMBOLS



MECHANICAL (M) NOTES BY SYMBOL

M5	SUPPLY/RETURN DUCT TO/FROM PACKAGED UNIT ON ROOF. REFER TO 1/M302.
M8	DUCTLESS SPLIT SYSTEM AIR HANDLING MOUNTED CENTERED ABOVE DOOR AT APPROXIMATELY 8'-0" AFF. SIZE AND ROUTE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S GUIDELINES. REFER TO 1/M905 FOR SEQUENCE OF OPERATON.
M15	MOUNT SPIRAL SEAM INTERNALLY LINED DUCT AT APPROXIMATELY 24'-1" AFF (GYM). COORDINATE EXACT DUCT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA. PROVIDE WITH PAINT-GRIP FINISH AND PAINT PER ARCHITECT'S INSTRUCTIONS.
M16	MOUNT SPIRAL SEAM INTERNALLY LINED DUCT AT APPROXIMATELY 17'-10" AFF (STAGE). COORDINATE EXACT DUCT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA. PROVIDE WITH PAINT-GRIP FINISH AND PAINT PER ARCHITECT'S INSTRUCTIONS.
M19	EXHAUST/OUTSIDE AIR DUCT UP THROUGH ROOF. FLASH PER ARCHITECT'S INSTRUCTION. COORDINATE ROOF PENETRATION WITH STRUCTURAL ENGINEER AND SEAL WEATHER TIGHT. REFER TO 1/M302.
M28	DUCT UP TO APPROXIMATELY 25'-1" AFF (GYM). COORDINATE EXACT DUCT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA. PAINT PER ARCHITECT'S INSTRUCTIONS.
M29	DUCT UP TO APPROXIMATELY 17'-10" AFF (STAGE). COORDINATE EXACT DUCT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA.
M30	MOUNT GRILLE AT 14'-6" AFF (STAGE).
M31	MOUNT GRILLE AT 13'-10" AFF (STAGE).
M33	CONDENSATE PIPING ROUTED TO FLOOR DRAIN. REFER TO PLUMBING PLANS FOR DRAIN LOCATIONS.
M38	MOUNT DIFFUSERS AT 15' 11" AFF (GYM). COORDINATE EXACT DIFFUSER MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA.
M40	EXTEND DUCTWORK SIZED AS SHOWN TO GREENHECK 'WIH' LOUVERED PENTHOUSE. PROVIDE MANUFACTURER'S ROOF CURB AND BIRD SCREEN. REFER TO 1/M302.
M41	EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN. REFER TO 1/M302.
M42	EXTEND RETURN DUCTWORK VERTICALLY 10'-6" AFF (MEZZANINE) OR OF SUFFICIENT LENGTH TO STACK RETURN GRILLES. REFER TO 4/M301.
M43	EXTEND RETURN DUCTWORK VERTICALLY 10'-6" AFF (MEZZANINE) OR OF SUFFICIENT LENGTH TO STACK RETURN GRILLES. REFER TO 6/M301.
M44	EXTEND RETURN DUCTWORK VERTICALLY 8'-0" AFF (MEZZANINE) OR OF SUFFICIENT LENGTH TO STACK RETURN GRILLES. REFER TO 5/M301.
M45	MOUNT SPIRAL SEAM INTERNALLY LINED DUCT AT APPROXIMATELY 22'-1" AFF (GYM). COORDINATE EXACT DUCT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA. PROVIDE WITH PAINT-GRIP FINISH AND PAINT PER ARCHITECT'S INSTRUCTIONS.
M46	PROVIDE WITH HOODED WALL CAP WITH BACKDRAFT DAMPER.
M47	ANGLE DUCT TO FOLLOW SLOPE OF ROOF.
M51	SERVICE CLEARENCE LINE.
M52	PROVIDE TURNING VANES. FAN CURL SHOULD MATCH DUCT PATH.
M54	MOUNT GRILLE AT 8'-2" AFF (STAGE). COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN AREA.

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1301 Solana Blvd.
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ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

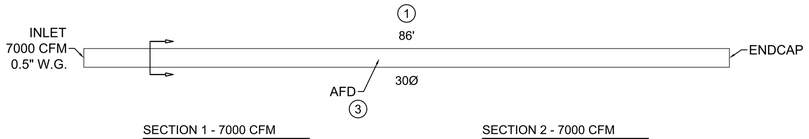
MECHANICAL PLAN - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
M301

MECHANICAL REFERENCE NOTES

1. REFER TO SHEET M511-M512 FOR DETAILS.
2. REFER TO SHEET M611 FOR MECHANICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET M612-M613 FOR CONTROL SEQUENCES OF OPERATION AND DIAGRAMS.

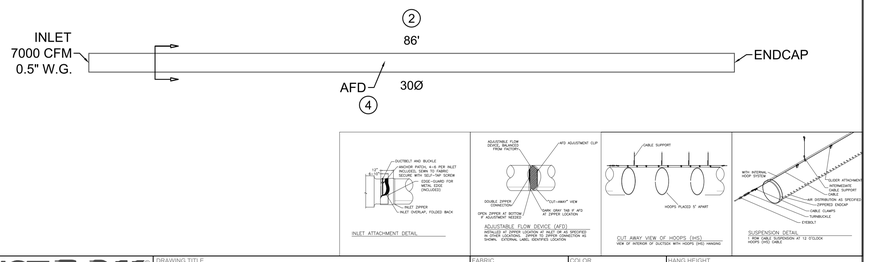


SECTION 1 - 7000 CFM
ISOTHERMAL THROW
BASED ON TERMINAL
VELOCITY OF 50, 100, & 150 FPM

SIZE 32 VENT AT 4:00 = 47'-6" 29'-6" 19'-6"
SIZE 14 VENT AT 5:00 = 26'-6" 16'-6" 11'
SIZE 11 VENT AT 6:00 = 22'-6" 14' 9'-6"

SECTION 2 - 7000 CFM
ISOTHERMAL THROW
BASED ON TERMINAL
VELOCITY OF 50, 100, & 150 FPM

SIZE 11 VENT AT 6:00 = 22'-6" 14' 9'-6"
SIZE 14 VENT AT 7:00 = 26'-6" 16'-6" 11'
SIZE 32 VENT AT 8:00 = 47'-6" 29'-6" 19'-6"



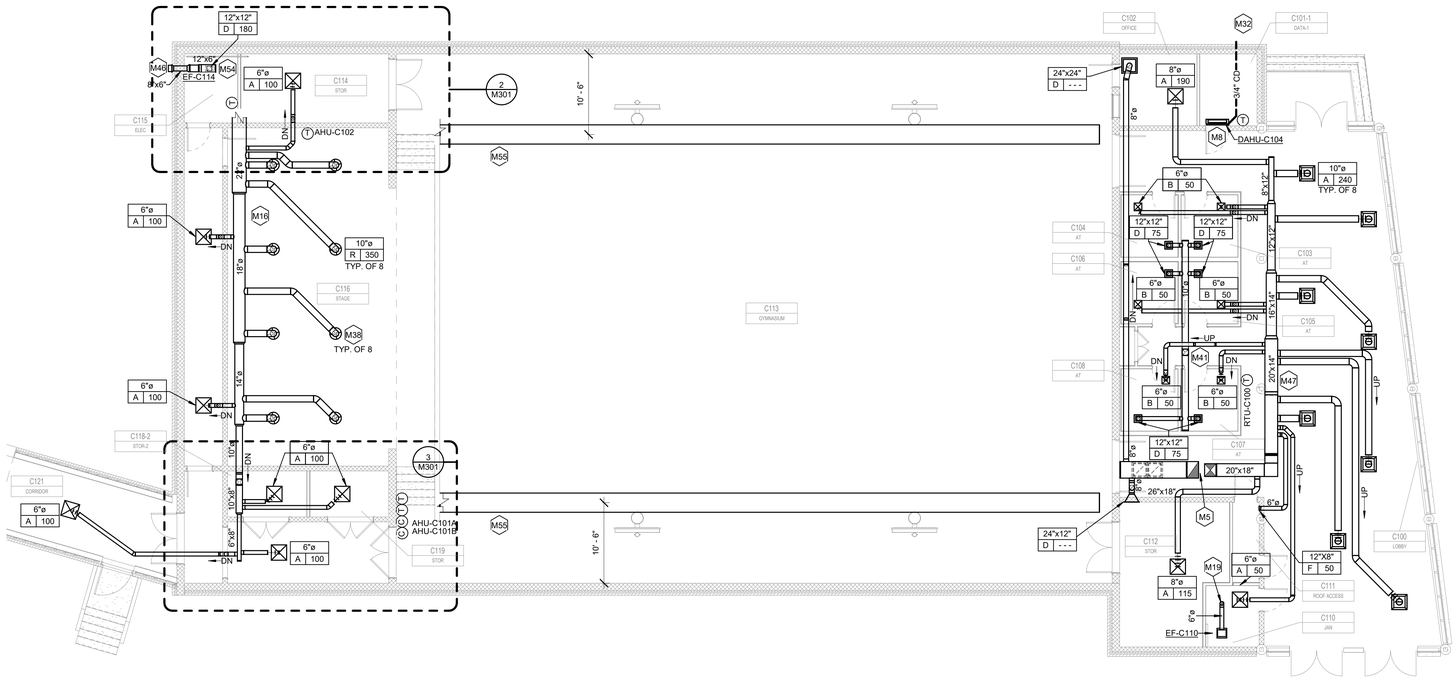
DUCTSOX® TEXTILE AIR DISPERSION PRODUCTS 4343 Chavenelle Rd. PH: 866-382-8769 Dubuque, IA 52002 www.ductsox.com	DRAWING TITLE: DUCTSOX PLAN VIEW	FABRIC: VERONA	COLOR: NOT SPECIFIED
	PROJECT NAME: ST. SIMONS ELEMENTARY	SUSPENSION: INTERNAL HOOP SYSTEM	HANG HEIGHT: NOT SPECIFIED
	REPRESENTATIVE: BARTOS INDUSTRIES	HARDWARE: GALVANIZED CABLE	FITTING ALIGNMENT: N/A
	DRAWING NUMBER: DS22-1544	DRAWN BY: KCS	DATE: 11 JUL 2022
		SCALE: NTS	REVISION: -
			PAGE NUMBER: 1 OF 1

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN FEET AND INCHES
LENGTH TOLERANCES: (+/-) 3" PER INITIAL 10', (+/-) 1" EVERY 10' AFTER

REV	DESCRIPTION	BY	DATE
-		-	-
-		-	-
-		-	-

MECHANICAL (M) NOTES BY SYMBOL

M5	SUPPLY/RETURN DUCT TO/FROM PACKAGED UNIT ON ROOF. REFER TO 1/M302.
M8	DUCTLESS SPLIT SYSTEM AIR HANDLING MOUNTED CENTERED ABOVE DOOR AT APPROXIMATELY 8'-0" AFF. SIZE AND ROUTE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S GUIDELINES. REFER TO 1/M905 FOR SEQUENCE OF OPERATON.
M16	MOUNT SPIRAL SEAM INTERNALLY LINED DUCT AT APPROXIMATELY 17'-10" AFF (STAGE). COORDINATE EXACT DUCT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA. PROVIDE WITH PAINT-GRIP FINISH AND PAINT PER ARCHITECT'S INSTRUCTIONS.
M19	EXHAUST/OUTSIDE AIR DUCT UP THROUGH ROOF. FLASH PER ARCHITECT'S INSTRUCTION. COORDINATE ROOF PENETRATION WITH STRUCTURAL ENGINEER AND SEAL WEATHER TIGHT. REFER TO 1/M302.
M38	MOUNT DIFFUSERS AT 15' 11" AFF (GYM). COORDINATE EXACT DIFFUSER MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN THIS AREA.
M41	EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN. REFER TO 1/M302.
M46	PROVIDE WITH HOODED WALL CAP WITH BACKDRAFT DAMPER.
M47	ANGLE DUCT TO FOLLOW SLOPE OF ROOF.
M54	MOUNT GRILLE AT 8'-2" AFF (STAGE). COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OTHER TRADES IN AREA.
M55	DUCTSOX TO BE MOUNTED AT 23'-1" AFF. REFER TO DUCTSOX DETAIL FOR MORE INFORMATION. THE PLAN NORTH AND PLAN SOUTH SHEET METAL DUCTWORK TRANSISTION TO CANVAS SHALL ALIGN. PROVIDE TRANSISTION AT THE SAME DISTANCE FROM THE STAGE WALL.



1 MECHANICAL PLAN - NEW GYMNASIUM ALTERNATE
M301A 1/8" = 1'-0"

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
817-410-2858
WWW.DONPENN.COM

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
www.johntuten.com

ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 860
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/14/2022
PROJECT NUMBER: 2035

MECHANICAL PLAN - NEW GYMNASIUM ALTERNATE

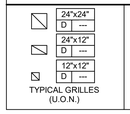
NO.	REVISION / SUBMISSIONS	DATE

SHEET:
M301A

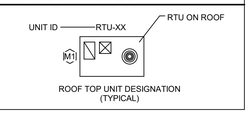
MECHANICAL REFERENCE NOTES

1. REFER TO SHEET M501 FOR DETAILS.
2. REFER TO SHEET M601 FOR MECHANICAL NOTES, SYMBOLS, AND SCHEDULES.

TYPICAL SYMBOLS



TYPICAL GRILLES (U.O.N.)

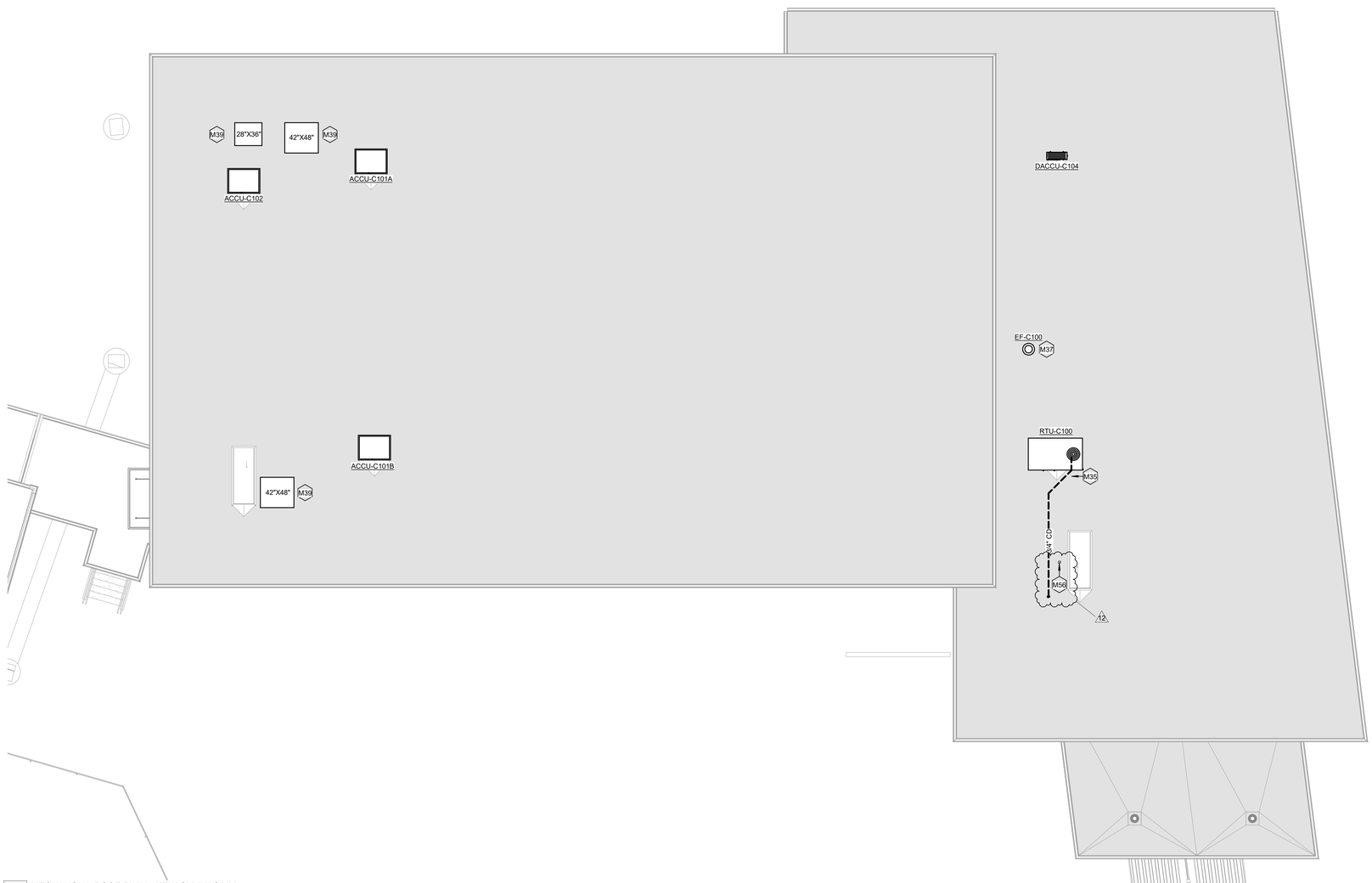


ROOF TOP UNIT DESIGNATION (TYPICAL)

MECHANICAL (M) NOTES BY SYMBOL

M35	EXTEND FULL SIZE CONDENSATE LINE FROM UNIT ON ROOF. PROVIDE AIR SEAL P-TRAP. REFER TO 2/M902.
M37	PROVIDE NEW ROOF MOUNTED EXHAUST FAN. INSTALL PER MANUFACTURER'S IOM AND MAINTAIN A MINIMUM OF 10' CLEARANCE BETWEEN FRESH AIR INTAKE AND ALL EXHAUST VENT LOCATIONS. REFER TO 4/M902.
M39	OUTDOOR AIR DUCT DOWN THROUGH ROOF FROM GREENHECK 'WIH' LOUVERED PENTHOUSE. MATCH THROAT SIZE SHOWN ON PLAN. PROVIDE WITH MANUFACTURER BIRDSCREEN.
M56	EXHAUST DUCT UP THROUGH ROOF. PROVIDE COOK PR HOOD. FLASH PER ARCH. INSTRUCTIONS.

12



1 MECHANCIAL ROOF PLAN - NEW GYMNASIUM
M302 1/8" = 1'-0"

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
817-410-2858

WWW.DONPENN.COM

GEORGIA REGISTERED No. 23205 PROFESSIONAL ENGINEER D. J. PENN

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BRUNSWICK, GEORGIA 31525
www.johntuten.com

ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

MECHANICAL ROOF PLAN - NEW GYMNASIUM

NO	REVISIONS	REVISION / SUBMISSIONS	DATE
12			09/09/22

SHEET:
M302

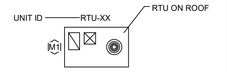
9/27/2022 2:21:03 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPv2021.rvt

MECHANICAL REFERENCE NOTES

1. REFER TO SHEET M511-M512 FOR DETAILS.
2. REFER TO SHEET M611 FOR MECHANICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET M612-M613 FOR CONTROL SEQUENCES OF OPERATION AND DIAGRAMS.

TYPICAL SYMBOLS

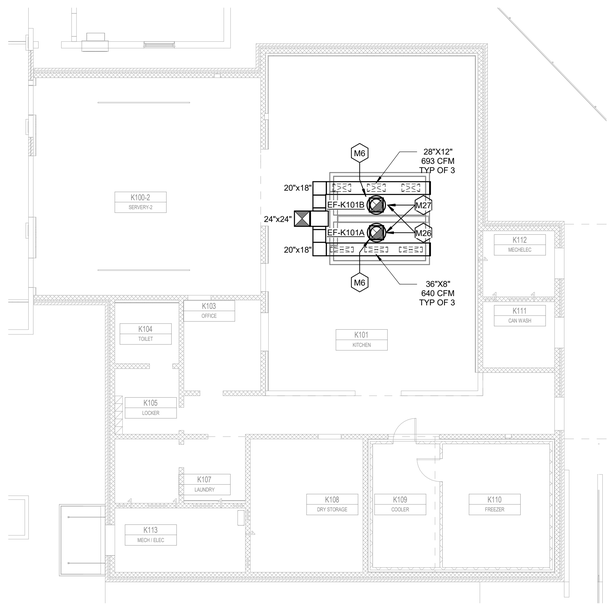
TYPICAL GRILLES (U.O.N.)



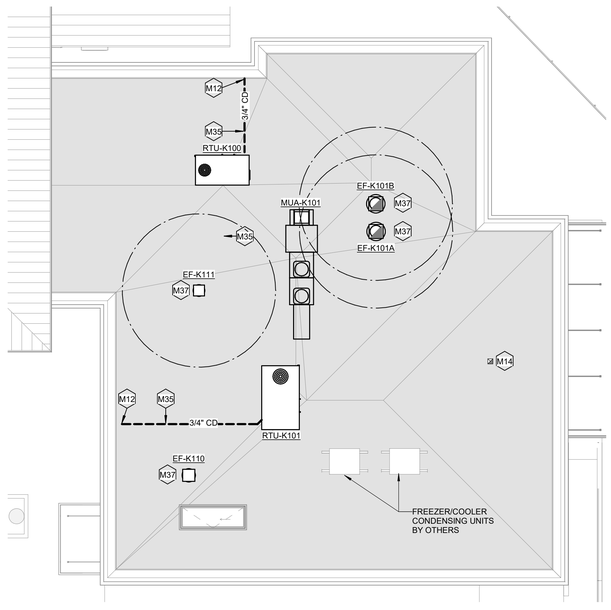
ROOF TOP UNIT DESIGNATION (TYPICAL)

MECHANICAL (M) NOTES BY SYMBOL

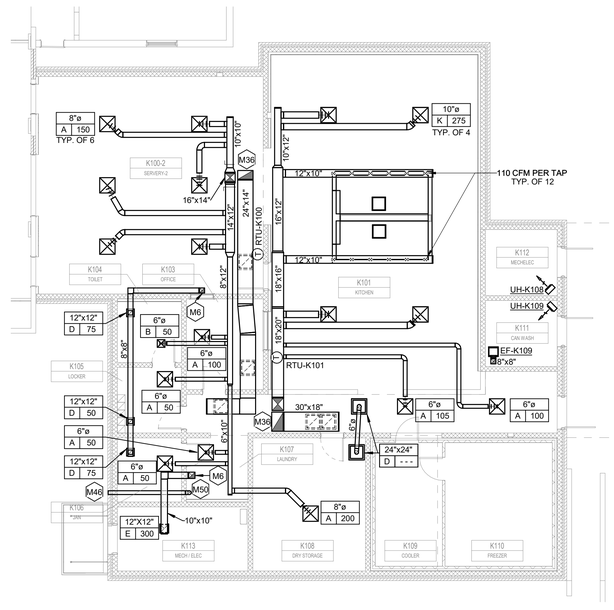
M6	EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN. REFER TO 2/M401.
M12	CONDENSATE PIPING TO DISCHARGE INTO RAIN GUTTER AT THIS APPROXIMATE LOCATION.
M14	EXHAUST DUCT DOWN THROUGH ROOF. FLASH PER ARCHITECT'S INSTRUCTION. COORDINATE ROOF PENETRATION WITH STRUCTURAL ENGINEER AND SEAL WEATHER TIGHT. REFER TO 3/M901.
M26	GREASE PAD ALL AROUND FAN.
M27	FULL SIZE DUCT UP FROM HOOD EXHAUST COLLAR. VERIFY EXACT REQUIREMENTS WITH HOOD MANUFACTURER.
M35	EXTEND FULL SIZE CONDENSATE LINE FROM UNIT ON ROOF. PROVIDE AIR SEAL P-TRAP. REFER TO 2/M902.
M36	SUPPLY/RETURN DUCT TO/FROM PACKAGED UNIT ON ROOF. REFER TO 2/M401.
M37	PROVIDE NEW ROOF MOUNTED EXHAUST FAN. INSTALL PER MANUFACTURER'S IOM AND MAINTAIN A MINIMUM OF 10' CLEARANCE BETWEEN FRESH AIR INTAKE AND ALL EXHAUST VENT LOCATIONS. REFER TO 4/M902.
M46	PROVIDE WITH HOODED WALL CAP WITH BACKDRAFT DAMPER.
M50	EXHAUST DUCT FROM DRYER. COORDINATE EXACT DUCT SIZE WITH EQUIPMENT USED.



3 MECHANICAL PLAN - FOOD SERVICE
M401 1/8" = 1'-0"



2 MECHANCIAL ROOF PLAN - KITCHEN ADDITION
M401 1/8" = 1'-0"



1 MECHANICAL PLAN - KITCHEN ADDITION
M401 1/8" = 1'-0"

DP CE
1301 Solana Blvd.
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Westlake, TX 76262
817-410-2858
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ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

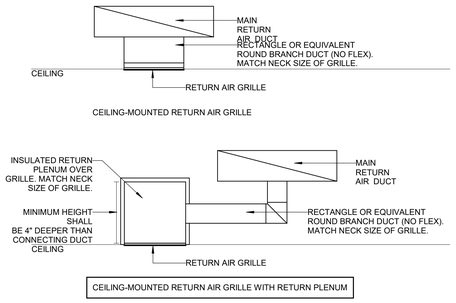
CAPITAL OUTLAY PROJECT # TBD:
SYSTEM CODE: 860
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

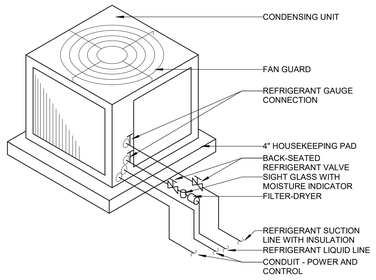
MECHANICAL PLAN - KITCHEN ADDITION

NO.	REVISION / SUBMISSIONS	DATE

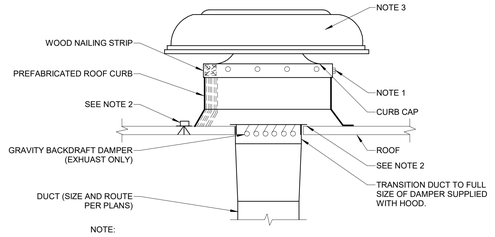
SHEET:
M401



9 M901 RETURN AIR CONNECTION DETAILS P4
N.T.S.



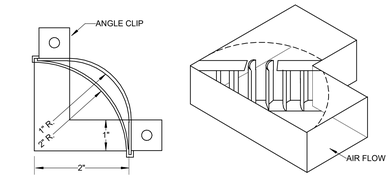
6 M901 SPLIT SYSTEM CONDENSING UNIT DETAIL P4
N.T.S.



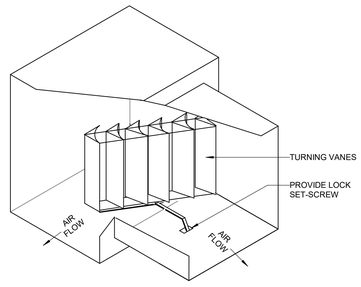
NOTE:

1. SECURE HOOD TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK & BAR JOIST ROOF).
3. FACTORY ASSEMBLED HINGED HOOD WITH LATCH AND BIRD SCREEN LOREN COOK PR OR EQUAL. THE SPUN ALUMINUM STRUCTURAL COMPONENTS SHALL BE CONSTRUCTED OF MINIMUM 16 GUAGE MARINE ALLOY ALUMINUM BOLTED TO A RIGID ALUMINUM SUPPORT STRUCTURE.

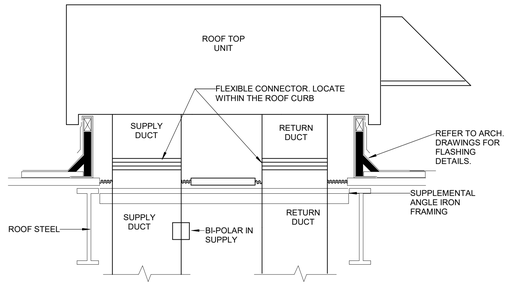
3 M901 EXHAUST/OUTSIDE AIR OUTLET/INTAKE DETAIL P4
N.T.S.



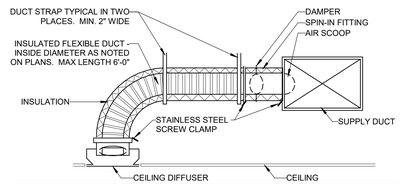
8 M901 ELBOW TURNING VANE DETAIL P4
N.T.S.



5 M901 BRANCH DUCT TAKEOFF DETAIL-P4
N.T.S.

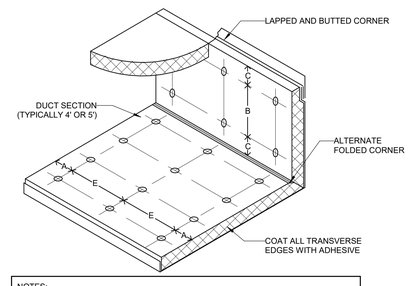


2 M901 ROOFTOP DUCTWORK PENETRATION DETAIL - P4
N.T.S.



NOTES:
1. FOR FLEX DUCT LENGTHS GREATER THAN 6'-0", USE EXTERNALLY INSULATED RIGID ROUND DUCT THE SAME SIZE AS THE FLEXIBLE DUCT FOR THE ADDITIONAL LENGTH.
2. FLEXIBLE DUCT SHALL BE UL181 APPROVED.
3. DO NOT KINK OR ALLOW SAG IN FLEXIBLE DUCT.
4. PROVIDE SPIN-IN FITTING FOR ALL ROUND FLEXIBLE DUCT CONNECTIONS TO RECTANGULAR DUCT. SPIN-IN FITTINGS SHALL BE FACTORY FABRICATED, INCLUDE AN AIR EXTRACTOR SCOOP AND BALANCING DAMPER WITH LOCKING QUADRANT AND HANDLE. BALANCE AIR FLOW AT THE SPIN-IN FITTING AND NOT AT THE AIR DISTRIBUTION DEVICE.

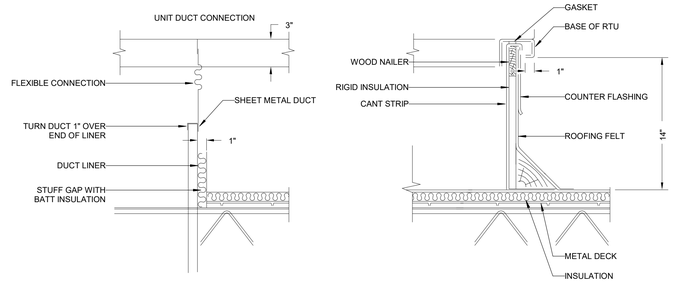
7 M901 DIFFUSER CONNECTION DETAIL P4
N.T.S.



NOTES:

1. LINER ADHERED TO THE DUCT WITH 90% MIN. AREA COVERAGE OF ADHESIVE.
2. THE VELOCITY RATED SIDE OF LINER MUST FACE THE AIR FLOW.
3. MAXIMUM SPACING FOR FASTENERS. ACTUAL INTERVALS ARE APPROXIMATE.

4 M901 DUCT LINER DETAIL P4
N.T.S.



NOTE:
1. PROVIDE FOUR (4) LOCATIONS FOR SECURING CURB ASSEMBLY TO STRUCTURE.
2. DO NOT ALLOW SHEET METAL DUCT TO CONTACT STRUCTURE.
3. PROVIDE MANUFACTURERS OPTIONAL MECHANICAL FASTENING SYSTEM TO ATTACH UNIT TO CURB.

1 M901 ROOFTOP UNIT (RTU) SUPPORT DETAIL P4
N.T.S.

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

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GEORGIA REGISTERED No. 23205 PROFESSIONAL ENGINEER D. J. PENN

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
www.johntuten.com

ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd, St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

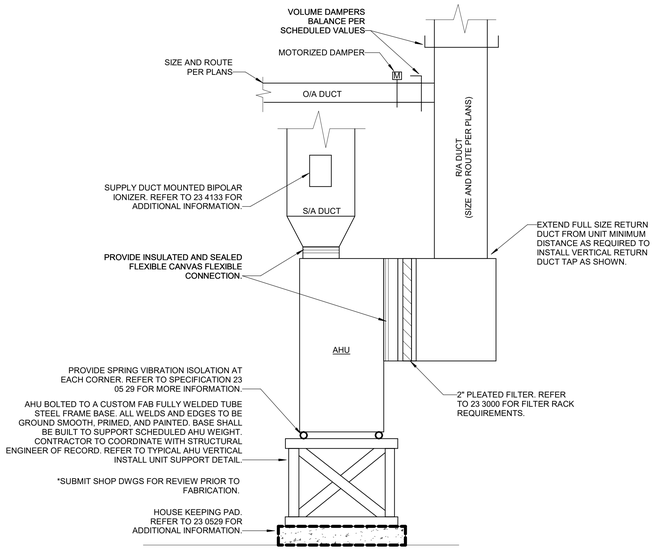
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

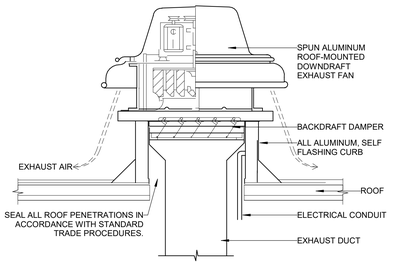
MECHANICAL DETAILS

NO.	REVISION / SUBMISSIONS	DATE

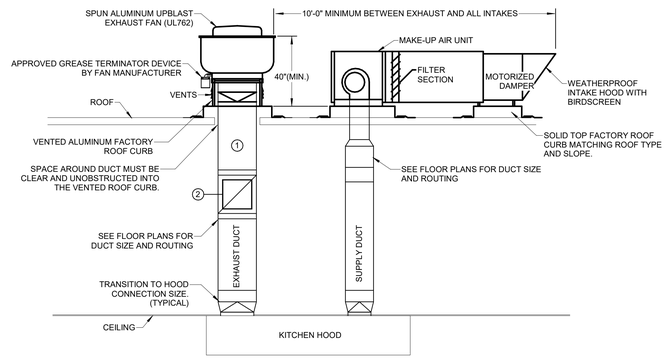
SHEET:
M901



6 M902 TYPICAL AIR HANDLING UNIT VERTICAL BASE
N.T.S.



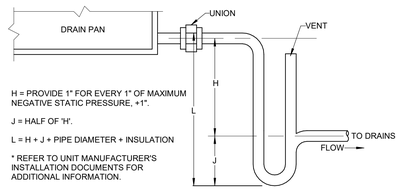
4 M902 TYPICAL DOWNBLAST EXHAUST FAN DETAIL
N.T.S.



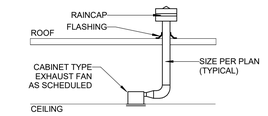
NOTES:

1. WELDED BLACK STEEL RECTANGULAR OR SQUARE DUCT. ALL SECTIONS OF THE DUCT SYSTEM SHALL BE CONSTRUCTED AND INSTALLED WITHOUT FORMING DIPS AND TRAPS AND SHALL SLOPE NOT LESS THAN 1/4 INCH PER FOOT TOWARD THE HOOD. WRAP WITH FIRE PROOFING INSULATION (3M OR EQUAL). THICKNESS/LAYER AS REQUIRED TO MEET 2-HOUR FIRE PROTECTION RATING.
2. ACCESS FOR CLEAN-OUT AND INSPECTION SHALL BE PROVIDED AT EACH CHANGE IN DIRECTION OF THE SYSTEM AND AS OTHERWISE REQUIRED. THE PLAN MAY REQUIRE MORE THAN IS SHOWN HERE (VERTICAL SHOWN FOR REFERENCE ONLY).
3. GREASE DUCT MATERIAL SHALL BE COMPLIANT WITH IMC SECTION 506.3.1.

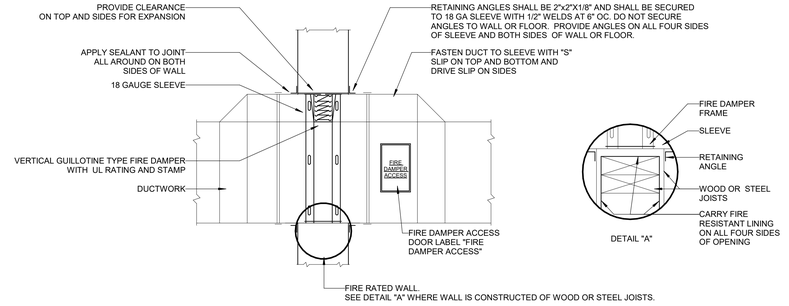
5 M902 TYPICAL KITCHEN HOOD DUCT SYSTEM DETAIL
N.T.S.



2 M902 CONDENSATE DRAIN DETAIL P4
N.T.S.



3 M902 CEILING MOUNTED EXHAUST FAN DETAIL P4
N.T.S.



1 M902 FIRE DAMPER AT RATED WALL SECTION DETAIL P4
N.T.S.

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
817-410-2858
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805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 060
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

REVISION / SUBMISSIONS

NO.	DATE

MECHANICAL DETAILS

SHEET: M902

SPLIT SYSTEM HEAT PUMP AIR HANDLING UNITS SCHEDULE

MARK	MANUFACTURER	MODEL	ESP (in-wg)	HP	CFM	O.A. (CFM)	COOLING - EDB (°F)	COOLING - EWB (°F)	KW HEAT	HEATING - EDB (°F)	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	WEIGHT (LB)
AHU-C101A	CARRIER	40RUQ	1.00	5	7,000	1,650	83	67	50	60	480	3	87	90	720
AHU-C101B	CARRIER	40RUQ	1.00	5	7,000	1,650	83	67	50	60	480	3	87	90	720
AHU-C102	CARRIER	40RUQ	1.00	3.7	3,500	520	80	65	25	63	480	3	44	50	427

SPLIT SYSTEM HEAT PUMP CONDENSING UNITS SCHEDULE

MARK	MANUFACTURER	MODEL	COOLING CAPACITY TOTAL (MBH)	COOLING CAPACITY SENSIBLE (MBH)	EER	HEATING CAPACITY TOTAL (MBH)	COP	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	WEIGHT (LB)	NOTES
ACCU-C101A	CARRIER	38AUQ	214	180	10.7	168	3.5	480	3	41	50	1015	1-20
ACCU-C101B	CARRIER	38AUQ	214	180	10.7	168	3.5	480	3	41	50	1015	1-20
ACCU-C102	CARRIER	38AUQ	98	80	11	82	3.3	480	3	19	25	575	1-18, 20

SPLIT SYSTEM NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF NAMEPLATES PERMANENTLY ATTACHED TO THE EQUIPMENT. NAMEPLATES SHALL BE ENGRAVED LAMINATED PLASTIC OR ETCHED METAL.
2. ALL ROOF MOUNTED EQUIPMENT SHALL BE LEVEL.
3. INSTALL EQUIPMENT ON MANUFACTURERS ROOF CURB. COORDINATE EXACT REQUIRMENTS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
4. ALL EQUIPMENT TO BE INSTALLED BY AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER OR VERIFIED BY MANUFACTURERS REPRESENTATIVE.
5. ROUTE AND SIZE REFRIGERANT LINES IN STRICT ACCORDANCE WITH MANUFACTURERS GUIDELINES.
6. CARRIER IS THE BASIS OF DESIGN. IF APPROVED ALTERNATE SELECTED, CONTRACTOR TO ADDRESS CHANGES TO INCLUDING, BUT NOT LIMITED TO, ELECTRIC DEMAND, WEIGHT AND SIZE OF UNIT.
7. INSULATE AND PROVIDE APPURTENACES FOR DX PIPING SYSTEMS PER MANUFACTURERS RECOMMENDATION.
8. PROVIDE FILTER DRYER AND SIGHT GLASS ON DX PIPING SYSTEMS PER MANUFACTURERS RECOMMENDATION.
9. EXTERNAL STATIC PRESSURE (IN. W.G.) INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY.
10. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
11. PROVIDE WITH E-COAT FOR EVAPORATOR AND CONDESNOR COILS SUITABLE FOR COASTAL ENVIRONMENT.
12. PROVIDE WITH CORROSION RESISTANT CONDENSATE DRAIN.
13. PROVIDE FACTORY HAIL GUARDS AND HURRICANE TIE DOWNS.
14. REFER TO 2/M613 FOR ADDITIONAL INFORMATION.
15. COOLING AMBIENT CONDITIONS: 110°F DB / 78°F WB. HEATING AMBIENT CONDITIONS: 31°F.
16. PROVIDE MULTI-SPEED FAN TO MODULATE CFM TO MATCH COMPRESSOR STAGES.
17. PROVIDE SINGLE POINT POWER.
18. PROVIDE WITH TWO STAGES OF ACCESSORY ELECTRIC HEATING
19. PROVIDE CONDENSING UNIT WITH INTEGRATED UNPOWERED GFCI RECEPTACLE TO BE POWERED ON NEAREST 120V GENERAL POWER CIRCUIT.
20. PROVIDE AIR HANDLER UNIT WITH BI-POLAR IONIZATION AIR PURIFIER. REFER TO SPECIFICATION SECTION 234133 FOR MORE INFORMATION. INSTALL ON SUPPLY DUCT. REFER TO 6/M902 FOR DETAIL.

HEAT PUMP RTU SCHEDULE

MARK	MANUFACTURER	MODEL	SUPPLY AIR (CFM)	ESP (in-wg)	O.A. (CFM)	NET COOLING CAPACITY (MBH)	NET SENSIBLE COOLING CAPACITY (MBH)	COOLING EDB (°F)	COOLING EWB (°F)	SEER (EER)	TOTAL HEATING CAPACITY (MBH)	KW HEAT	HEATING - EDB (°F)	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	WEIGHT (LB)	RTU NOTES
RTU-A138	CARRIER	50FCQA06	1,750	0.50	210	50	41	79	65	16.2	44	19.7	65	480	3	45	45	664	1-19
RTU-A142	CARRIER	50FCQA04	1,050	0.50	210	29	23	82	66	(14.3)	25	8.1	62	480	3	23	25	537	1-19, 21
RTU-A151	CARRIER	50FCQA05	1,400	0.50	180	41	33	80	65	14.3	36	12.9	65	480	3	32	35	543	1-19
RTU-C100	CARRIER	50TCQD08	2,625	0.50	420	75	67	81	65	11.2	65	25.5	64	480	3	61	70	1169	1-21
RTU-K100	CARRIER	50FCQA05	1,400	0.50	260	41	34	82	66	14.3	36	12.9	63	480	3	32	35	543	1-19, 21
RTU-K101	CARRIER	50TCQD08	2,625	0.50	350	75	60	80	65	11.2	65	25.5	65	480	3	61	70	1169	1-21

RTU SCHEDULE NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF ENGRAVED LAMINATED PLASTIC OR ETCHED METAL NAMEPLATES PERMANENTLY ATTACHED TO THE EQUIPMENT.
2. ALL ROOF MOUNTED EQUIPMENT SHALL BE SET LEVEL.
3. ALL EQUIPMENT TO BE INSTALLED BY AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER OR VERIFIED BY MANUFACTURER'S REPRESENTATIVE.
4. PROVIDE 2015 IECC COMPLIANT LOW-LEAK ECONOMIZER ON ALL NEW ROOF TOP UNITS.
5. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
7. PROVIDE FACTORY HAIL GUARDS AND HURRICANE TIE DOWNS.
8. PROVIDE MANUFACTURERS ROOF CURB.
9. CARRIER IS THE BASIS OF DESIGN. CONTRACTOR RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
10. EXTERNAL STATIC PRESSURE (IN. W.G.) INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY.
11. PROVIDE 75VA TRANSFORMER FOR ADDITIONAL DUCT MOUNTED AIR-IONIZER ACCESSORY.
12. PROVIDE MULTI-SPEED FAN TO MODULATE CFM TO MATCH COMPRESOR STAGES.
13. PROVIDE ROOFTOP UNIT WITH BI-POLAR IONIZATION AIR PURIFIER. REFER TO SPECIFICATION SECTION 234133 FOR MORE INFORMATION. INSTALL ON SUPPLY DUCT. REFER TO 2/M901 FOR DETAIL.
14. PROVIDE WITH E-COAT FOR EVAPORATOR AND CONDENSER COILS SUITABLE FOR COASTAL ENVIORMENT.
15. PROVIDE WITH CORROSON RESISTANT CONDENSATE DRAIN PAN.
16. CONTRACTOR SHALL PROVIDE START UP SERVICES.
17. REFER TO SPECIFICATION 23 7401 FOR ADDITIONAL INFORMATION.
18. UNIT TO BE CONTROLLED VIA WALL MOUNTED THERMOSTAT. REFER TO 1/M612.
19. COOLING AMBIENT CONDITIONS: 110°F DB / 78°F WB. HEATING AMBIENT CONDITIONS: 31°F.
20. PROVIDE SMOKE DETECTOR IN RETURN DUCT INTERLOCKED TO S/A FAN AS REQUIRED BY CODE.
21. PROVIDE INTEGRATED UNPOWERED GFCI DUPLEX RECEPTACLE. RECEPTACLE TO BE POWERED ON NEAREST 120V GENERAL POWER CIRCUIT.

MAKE-UP AIR ELEC HEAT SCHEDULE

MARK	EVAPORATOR FAN				HEATING	CONDENSERS			NET COOLING PERFORMANCE					POWER CONNECTION			MANUFACTURER	MODEL	WEIGHT (LB)	COMMENTS
	S/A CFM	O/A CFM	ESP (in-wg)	MOTOR HP	KW HEATH	CONDENSER 1 TONNAGE	CONDENSER 2 TONNAGE	O/A D.B. (°F)	ENTERING AIR (°F)		CAPACITY (MBH)			VOLTAGE (V)	PHASE	MOCP (A)				
									DB	WB	TOTAL	SENSIBLE	LATENT							
MUA-K101	4000	4000	0.75	3	73	3	5	92	90	78	96.0	59.0	37.0	480	3	110	CAPTIVEAIRE	A2-E.734-G15-MPU	1818	1-12

MAKE-UP AIR SCHEDULE NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF ENGRAVED LAMINATED PLASTIC OR ETCHED METAL NAMEPLATES PERMANENTLY ATTACHED TO THE EQUIPMENT.
2. ALL ROOF MOUNTED EQUIPMENT SHALL BE SET LEVEL.
3. ALL EQUIPMENT TO BE INSTALLED BY AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER OR VERIFIED BY MANUFACTURER'S REPRESENTATIVE.
4. INSTALL UNIT ON MANUFACTURERS ROOF CURB. (ADJUSTED FOR ROOF SLOPE)
5. PROVIDE NEC NON-FUSED DISCONNECT FOR EACH FAN.
6. EXTERNAL STATIC PRESSURE (IN. W.G.) INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY.
7. PROVIDE COMPANION FAN TO KITCHEN HOOD, MANUFACTURED BY KITCHEN HOOD MANUFACTURER AS TO MAINTAIN UL LISTING OF HOOD ASSEMBLY.
8. PROVIDE WITH E-COAT FOR EVAPORATOR AND CONDESNOR COILS SUITABLE FOR COASTAL ENVIORMENT.
9. PROVIDE FACTORY HAIL GUARDS AND HURRICANE TIE DOWNS.
10. HOOD OPERATION CONTROLLED VIA LOCAL SWITCH ON HOOD ASSEMBLY.
11. INTERLOCK WITH KITCHEN HOOD SHUNT TRIP TO PROVIDE FAN SHUT DOWN ON DETECTION.
12. REFER TO 5/M512 FOR ADDITIONAL INFORMATION.

DUCTLESS SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	COOL. CAP (MBH)	CFM	WEIGHT (LBF)	VOLTAGE (V)	PHASE	MCA (A)
DAHU-A154	CARRIER	40MHHC	12	360	19	208	1	0.2
DAHU-C104	CARRIER	40MHHC	12	360	19	208	1	0.2

DUCTLESS SPLIT SYSTEM CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	WEIGHT (LB)	NOTES
DACCU-A154	CARRIER	38MHRCC	20.5	208	1	9	15	60.00	1-16
DACCU-C104	CARRIER	38MHRCC	20.5	208	1	9	15	60.00	1-16

DUCTLESS SPLIT SYSTEM NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF ENGRAVED LAMINATED PLASTIC OR ETCHED METAL NAMEPLATES PERMANENTLY ATTACHED TO THE EQUIPMENT.
2. ALL ROOF MOUNTED EQUIPMENT SHALL BE SET LEVEL.
3. ALL EQUIPMENT TO BE INSTALLED BY AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER OR VERIFIED BY MANUFACTURERS REPRESENTATIVE.
4. ROUTE AND SIZE REFRIGERANT LINES IN STRICT ACCORDANCE OF MANUFACTURER'S GUIDELINES.
5. PROVIDE WITH ROOF MOUNTING RACK.
6. CARRIER IS BASIS OF DESIGN. IF APPROVED ALTERNATE SELECTED, CONTRACTOR TO ADDRESS CHANGES TO INCLUDING, BUT NOT LIMITED TO, ELECTRICAL DEMAND, WEIGHT OF UNIT, AND SIZE.
7. INSULATE AND PROVIDE APPURTENANCES FOR DX PIPING SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS
8. PROVIDE FILTER DRYER AND SIGHT GLASS ON DX LINES.
9. PROVIDE FACTORY OPTIONAL CONDENSATE PUMP.
10. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
11. PROVIDE WITH E-COAT FOR EVAPORATOR AND CONDESNER COILS SUITABLE FOR COASTAL ENVIORMENT.
12. PROVIDE WITH CORROSION RESISTANT CONDENSATE DRAIN.
13. PROVIDE COOLING ONLY UNIT
14. PROVIDE FACTORY HAIL GUARDS AND HURRICANE TIE DOWNS.
15. REFER TO 1/M613 FOR SEQUENCE OF OPERATIONS.
16. PROVIDE E-COAT FOR CONDESER COIL SUITIBLE FOR COASTAL ENVIORMENT.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP (in-wg)	ELECTRICAL LOAD (VA)	VOLTAGE (V)	PHASE	SONES	FAN TYPE	DRIVE	MOUNTING	WEIGHT (LB)	NOTES
EF-A133	GREENHECK	CUE-70-_	180	0.25	50	120	1	2.6	CENTRIF	DIRECT	ROOF	26	1-6, 8, 10
EF-A137	GREENHECK	SP-A90	75	0.25	20	120	1	.7	CABINET	DIRECT	CEILING	24	1-7, 11
EF-A140	GREENHECK	SP-A90	75	0.25	20	120	1	.7	CABINET	DIRECT	CEILING	24	1-7, 11
EF-A144	GREENHECK	SP-A90	75	0.25	20	120	1	.7	CABINET	DIRECT	CEILING	24	1-7, 11
EF-C100	GREENHECK	G-90	500	0.50	75	120	1	7.4	CENTRIF	DIRECT	ROOF	29	1-6, 8, 9
EF-C110	GREENHECK	SP-A90	75	0.25	20	120	1	0.8	CABINET	DIRECT	CEILING	24	1-7,11
EF-C114	GREENHECK	SP-A100	100	0.25	55	120	1	2.2	IN-LINE	DIRECT	SUSPENDED	16	1-6, 10, 13
EF-K101A	GREENHECK	CUE-161-_	2600	1.50	1500	480	3	18.7	CENTRIF	DIRECT	ROOF	102	1-6, 8, 12
EF-K101B	GREENHECK	CUE-161-_	2400	1.50	1500	480	3	18.7	CENTRIF	DIRECT	ROOF	102	1-6, 8, 12
EF-K109	GREENHECK	SP-A290	250	0.25	85	120	1	3.7	CABINET	DIRECT	CEILING	24	1-7, 11
EF-K110	GREENHECK	CUE-90	300	0.25	75	120	1	4.2	CENTRIF	DIRECT	ROOF	31	1-6, 8, 9
EF-K111	GREENHECK	CUE-70-_	200	0.30	50	120	1	4.3	CENTRIF	DIRECT	ROOF	26	1-6, 8, 9

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EXHAUST FAN SCHEDULE NOTES

1. PROVIDE GRAVITY BACKDRAFT DAMPER WITH NYLON BEARINGS, FELTED SEALING UP, AND INSECT SCREEN STANDARD MODEL AS RECOMMENDED BY MANUFACTURER.
2. PROVIDE NEC NON-FUSED DISCONNECT FOR EACH FAN.
3. ALL ALUMINUM CONSTRUCTION.
4. ESP (EXTERNAL STATIC PRESSURE) INCLUDES DUCTWORK, DAMPERS, AND REGISTER.
5. PROVIDE VARI-GREEN MOTORS FOR ALL DIRECT DRIVE FANS.
6. REFER TO SPECIFICATION 232310 FOR MORE INFORMATION.
7. CEILING MOUNTED FAN. DO NOT SUPPORT FROM CEILING TILE.
8. INSTALL UNIT ON MANUFACTURERS ROOF CURB.
9. INTERLOCK WITH OWNERS ENERGY MANAGEMENT SYSTEM. FAN SHALL RUN DURING ALL OCCUPIED HOURS. REFER TO 3/M904.
10. CONTROL VIA WALL MOUNTED, REVERSE ACTING LINE VOLTAGE T-STAT SET TO 80°F. REFER TO 3/M904.
11. SWITCH EXHAUST FAN WITH LOCAL AREA LIGHT SWITCH. REFER TO LIGHT SWITCHING DETAIL FOR MORE INFORMATION. REFER TO 3/M904.
12. REFER TO 5/M512 FOR ADDITIONAL INFORMATION.
13. PROVIDE WITH HANGING VIBRATION ISOLATION KIT.

UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	KW HEAT	SUPPLY CFM	VOLTAGE (V)	PHASE	WEIGHT (LBF)	NOTES
UH-K108	QMARK	MUH	3	420	480	3	36	1-4
UH-K109	QMARK	MUH	3	420	480	3	36	1-4

UNIT HEATER SCHEDULE NOTES

1. PROVIDE NON FUSED DISCONNECT FOR EACH UNIT HEATER.
2. SUSPENSION TYPE UNIT HEATERS SHALL BE SUSPENDED FROM STRUCTURE ABOVE.
3. BOTTOM OF UNIT HEATER SHALL BE 8'-0" A.F.F. (MIN.)
4. PROVIDE INTEGRAL THERMOSTAT.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	SERVICE TYPE	DEVICE TYPE	PANEL SIZE	MOUNT	MANUFACTURER	MODEL	MATERIAL	NOTES
A	SUPPLY	4-WAY	24"x24"	LAY-IN OR FLANGE	TITUS	TMS	ALUMINIUM	1-4
B	SUPPLY	4-WAY	12"x12"	LAY-IN OR FLANGE	TITUS	TMS	ALUMINIUM	1-4
D		1/2"x1/2"x1/2" CUBE		LAY-IN OR FLANGE	TITUS	50F	ALUMINIUM	
E	INTAKE REGISTER	35 DEGREE	12"x12"	LAY-IN OR FLANGE	TITUS	350FL	ALUMINIUM	1-4
F	SUPPLY	ADJUSTABLE	20"x6"	FLANGE	TITUS	300RS	STEEL	1-5
FR	RETURN	ADJUSTABLE	20"X6"	FLANGE	TITUS	300RS	STEEL	1-5
H	RETURN	FIXED FINS	36"X36"	FLANGE	TITUS	30RL	STEEL	1-4
J	SUPPLY	ADJUSTABLE	20"X12"	FLANGE	TITUS	DL	ALUMINIUM	1-4
K	SUPPLY	PERFORATED	24"x24"	LAY-IN	TITUS	PAS AA	ALUMINIUM	1-4
R	SUPPLY	ROUND	10"ø	LAY-IN OR FLANGE	TITUS	TMR	ALUMINIUM	1-4

GRILLE, REGISTER, AND DIFFUSER SCHEDULE NOTES

1. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC. FOR MOUNTING IN RESPECTIVE CEILING/WALL TYPES AND CONDITIONS.
2. MAXIMUM NC OF 25.
3. DAMPER IN SUPPLY DUCT.
4. REFER TO SPECIFICATION SECTION 233713 FOR MORE INFORMATION.
5. PROVIDE WITH INSULATED PLENUM.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
T	THERMOSTAT/SENSOR AT 48" AFF
S	REMOTE SENSOR
C	C02 SENSOR @ 48" AFF
D	DUCT DETECTOR, W/FAN SHUTDOWN
	CONNECTION TO EXISTING SYSTEM
	VOLUME DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
	SUPPLY
	RETURN AND/OR EXHAUST
	DUCT ELBOW (PROVIDE TURNING VANES)
	SUPPLY/RETURN DUCTWORK
M	MOTORIZED DAMPER
1/M-7	REFER TO DETAIL #1 ON DRAWING M-7
10"ø / A 300	DIFFUSER NECK SIZE AND RUNOUT SIZE; CFM; DIFFUSER TYPE
24"X24" / C ---	RETURN/EXHAUST GRILLE FACE SIZE; GRILLE TYPE

MECHANICAL NOTES

1. DUCT DIMENSIONS SHOWN ARE INSIDE, CLEAR.
2. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTION PER THE LATEST EDITION OF SMACNA, & MUST CONFORM TO ALL LOCAL CODES.
3. CLOSELY COORDINATE ALL WORK BETWEEN STRUCTURE, DUCTWORK, FIRE PROTECTION, UNIT INSTALLATION & ELECTRICAL PANEL CLEARANCES.
4. DUCTWORK TO BE MOUNTED HIGH AS POSSIBLE.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AGAINST CONTRACT DOCUMENTS PRIOR TO BEGINNING WORK AND ORDERING ANY MATERIALS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY BEND, OFFSET, COMPONENT, ETC.

GEORGIA REGISTERED No. 23205 PROFESSIONAL ENGINEER D. J. PENN

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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 860
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

MECHANICAL NOTES, SYMBOLS, AND SCHEDULES

NO.	REVISIONS / SUBMISSIONS	DATE
1-2	REVISIONS	09/09/22

SHEET: M903

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1301 Solana Blvd.
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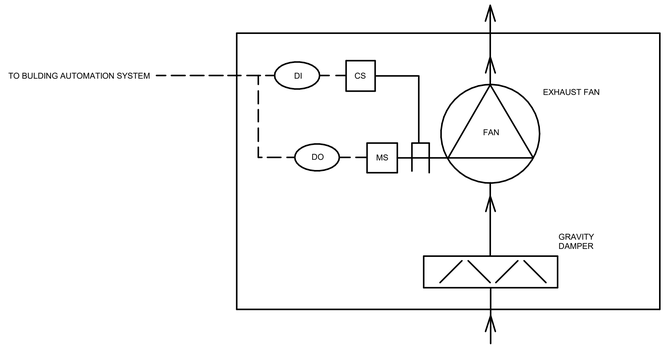
GENERAL NOTES FOR DIRECT DIGITAL CONTROL (DDC) SYSTEM

1. PROVIDE A PROGRAMMABLE ELECTRONIC HVAC CONTROL ENERGY MANAGEMENT SYSTEM. THE SYSTEM SHALL BE CAPABLE OF INTERFACING TO AND CONTROLLING THE HVAC EQUIPMENT SHOWN ON THE PLANS AND DESCRIBED IN THE SEQUENCES OF OPERATION. THE SYSTEM SHALL BE CAPABLE OF ALARMING AND SYSTEM CONTROL DESCRIBED IN THE SEQUENCES OF OPERATION. THE SYSTEM SHALL HAVE 7-DAY PROGRAMMING CAPABILITY AND HAVE A MINIMUM 12 HOUR BATTERY BACK-UP SYSTEM.
2. THE CONTROL SYSTEMS SHALL BE COMPLETE WITH ALL WIRING, CONDUIT, POWER SUPPLIES AND OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM THAT WILL ACCOMPLISH THE SEQUENCES OF OPERATION AND INTENT OF CONTROL DIAGRAMS ON THE PLANS. THE LOCATION OF THE MAIN CONTROL PANEL (COMPUTER) SHALL BE COORDINATED WITH THE BUILDING OWNER/OPERATOR UNLESS OTHERWISE NOTED ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL ASPECTS OF THE DDC SYSTEM AND THE FIRE ALARM/SUPPRESSION SYSTEMS TO ENSURE THAT THE SYSTEMS OPERATE AS REQUIRED BY THESE DOCUMENTS AND NATIONAL AND LOCAL CODES.
3. ALL COMMUNICATIONS WIRING TO BE SHIELDED TWISTED WIRE PAIR.
4. ALL COMMUNICATIONS WIRING TO WALL MOUNTED CONTROLLERS AND INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE ROUTED IN CONDUIT. CONDUIT TO EXTEND UP ABOVE CEILING OR THROUGH EXPOSED ROOF STRUCTURE. WIRING FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED WITHIN THE CONFINES OF THE ROOF CURB. ALL CONTROL DEVICES INSTALLED IN LOCATIONS EXPOSED TO THE WEATHER SHALL BE PROVIDED WITH WEATHER-PROOF ENCLOSURES.
5. THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY ELECTRICAL POWER NEEDED FOR THE BUILDING AUTOMATION SYSTEM (BAS). THE INSTALLATION OF THESE POWER SYSTEMS SHALL BE IN FULL ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS AND NATIONAL ELECTRICAL CODE (NEC). COORDINATE POWER SOURCE, VOLTAGE, AND PHASE OF EACH PIECE OF EQUIPMENT BEFORE ORDERING ANY MECHANICAL OR ELECTRICAL EQUIPMENT. WHERE DISCREPANCIES EXIST THAT PROHIBIT WORK, THE ENGINEER OF RECORD (EOR) SHALL BE NOTIFIED AND AN RFI SUBMITTED.
6. LOCATE ROOM THERMOSTATS, HUMIDISTAT, CARBON DIOXIDE SENSORS, TEMPERATURE AND HUMIDITY SENSORS, AND ANY COMBINATION SENSORS AT 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. MOUNT ALL TEMPERATURE AND HUMIDITY READ-OUT DEVICES AT 5'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ARCHITECT WHERE THE REQUIRED MOUNTING HEIGHT CANNOT BE MAINTAINED, OR IF THERE IS A QUESTION REGARDING LOCATION.
7. ALL DUCT AND EQUIPMENT SMOKE DETECTORS SHALL BE INTERFACED WITH THE BUILDING FIRE ALARM SYSTEM. UPON DETECTION OF SMOKE, UNIT SHALL BE SHUTDOWN AND A NOTIFICATION SENT TO THE FIRE ALARM SYSTEM.
8. COORDINATE CONTROLLER REQUIREMENTS WITH THE HVAC EQUIPMENT MANUFACTURER'S SUBMITTAL. THE CONTROLS CONTRACTOR SHALL REVIEW THE SUBMITTAL AND ENSURE ALL NECESSARY CONTACTS, ACTUATORS, SMOKE DETECTORS, ETC. ARE FULLY COORDINATED AND PROVIDED.
9. ALL SET-POINTS CALLED OUT HERE SHALL BE ADJUSTABLE (ADJ) AT THE BAS UNLESS OTHERWISE NOTED.
10. THE MAPPING OF NEW DDC POINTS TO THE EXISTING BAS AND THE BUILDING OF GRAPHICS IN THE EXISTING BAS SOFTWARE SHALL BE FULLY COORDINATED AND INCLUDED IN THE MECHANICAL CONTRACT.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EXISTING DISTRICT ENERGY MANAGEMENT SYSTEMS AND SHALL CONFIRM REQUIRED ADDITIONAL COMPONENTS TO THE EXISTING SYSTEM IN ORDER TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE SEQUENCES OF OPERATION.
12. THE COMMUNICATIONS PROTOCOL FOR DDC CONTROL HARDWARE SHALL BE BASED UPON BACNET STANDARD. BACKNET CONTROLLERS SHALL BE WIRED TO THE EXISTING BUILDING CONTROL UNIT (BCU).
18. FIELD VERIFY EXISTING BAS AND FRONT END PRIOR TO ORDERING CONTROL COMPONENTS AND/OR STARTING ANY PROGRAMMING.
19. PROVIDE FULL CONTROLS SUBMITTAL PACKAGE AT THE TIME OF GENERAL MECHANICAL SUBMITTALS. SUBMITTALS SHALL INCLUDE COMPLETE BILL OF MATERIALS INDICATING QUANTITY, CONTROL DIAGRAMS, INPUT/OUTPUT POINTS LISTS, ROOM AND EQUIPMENT SCHEDULE, TECHNICAL INFORMATION FOR EQUIPMENT INCLUDED, AND SEQUENCES OF OPERATION.
20. CONTRACTOR SHALL COORDINATE ALL CONTROLS AND TAB WORK REQUIREMENTS PRIOR TO BIDDING.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	OPPOSED BLADE DAMPER
	HEATING OR COOLING COIL
	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	FAN OR PUMP MOTOR
DP	DIFFERENTIAL PRESSURE SENSOR
PT	PRESSURE TRANSMITTER
AFM	AIR FLOW MONITORING
SD	SMOKE DETECTOR
T	DUCT MOUNTED TEMPERATURE SENSOR
T	WALL MOUNTED TEMPERATURE SENSOR
TCU	TERMINAL CONTROL UNIT
VFD	VARIABLE FREQUENCY DRIVE
VS	VIBRATION SENSOR
AVA	ADJUSTABLE VALVE ACTUATION
	VAV DAMPER W/FLOW MONITOR
DI	DDC DIGITAL INPUT POINT
DO	DDC DIGITAL OUTPUT POINT
AI	DDC ANALOG INPUT POINT
AO	DDC ANALOG OUTPUT POINT
OPB	OPEN PROTOCOL BUS
M	MOTOR
MS	MOTOR STARTER
H	WALL MOUNTED HUMIDITY SENSOR
F	FLOW SENSOR
FR	FREEZE STAT
O/O	ON/OFF SWITCH
HH	HIGH HUMIDITY SENSOR
CO2	DUCT MOUNTED CO2 SENSOR
ES	ENTHALPY SENSOR, ECONOMIZER
HPL	HIGH STATIC PRESS. LIMIT SENS.
VFDP	VFD (DUCT) PRESSURE TRANSMITTER
CO2	WALL MOUNTED CO2 SENSOR
H	DUCT MOUNTED HUMIDITY SENSOR
LTC	LOW TEMPERATURE CUTOFF
SP	STATIC PRESSURE SENSOR
LD	LEAK DETECTION UNIT
CS	CURRENT SENSOR



3 M904 TYPICAL EXHUST FAN CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION: OCCUPIED HOURS

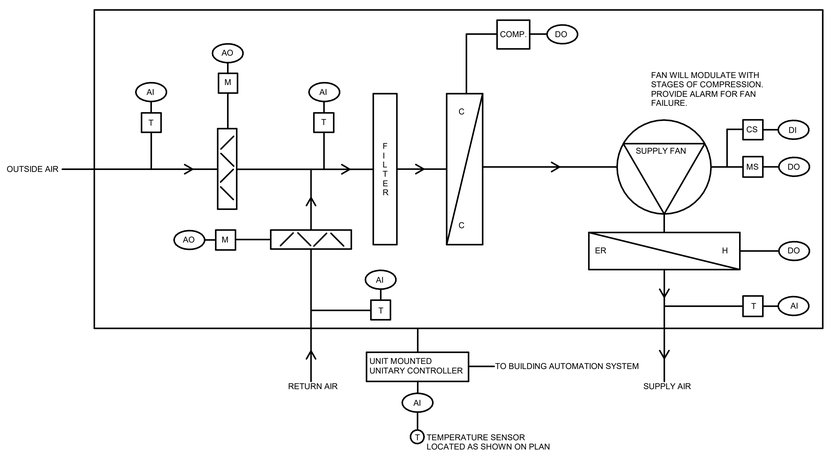
1. EXHAUST FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE. THE OPERATOR SHALL BE ABLE TO SCHEDULE FANS ON / OFF BASED ON A PREDEFINED SCHEDULE.
2. FAN STATUS SHALL BE MONITORED BY BAS THROUGH CURRENT SENSOR, IF FAILS TO OPERATE WHEN REQUIRED AN ALARM SHALL BE SENT TO CONTROL PANEL.

SEQUENCE OF OPERATION: THERMOSTAT CONTROL

1. EXHAUST FAN SHALL ENGAGE WHEN THE LOCAL SPACE TEMPERATURE RISES ABOVE 85°F (ADJ.) AND REMAIN ENGAGED UNTIL THE LOCAL SPACE TEMPERATURE DROPS BELOW SETPOINT.
2. FAN STATUS SHALL BE MONITORED BY BAS THROUGH CURRENT SENSOR, IF FAILS TO OPERATE WHEN REQUIRED AN ALARM SHALL BE SENT TO CONTROL PANEL.

SEQUENCE OF OPERATION: LOCAL SWITCH

1. EXHAUST FAN SHALL BE CONTROLLED VIA LOCAL LIGHT SWITCH. REFER TO 3/E901 FOR ADDITIONAL INFORMATION.
2. FAN STATUS SHALL BE MONITORED BY BAS THROUGH CURRENT SENSOR, IF FAILS TO OPERATE WHEN REQUIRED AN ALARM SHALL BE SENT TO CONTROL PANEL.



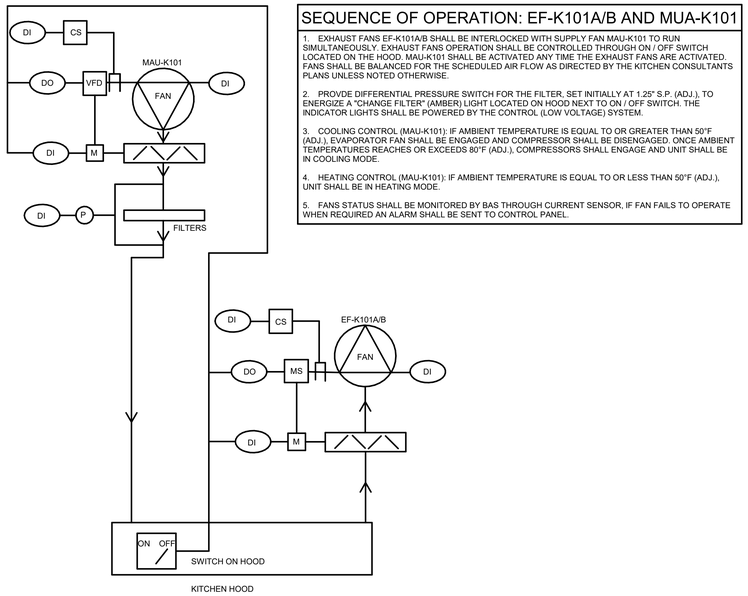
2 M904 TYPICAL ROOFTOP UNIT CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION: ROOFTOP HEAT PUMPS

1. WHEN THE SUPPLY FAN IS OFF, ALL COMPRESSORS AND HEATER ARE OFF, AND THE RETURN AIR OUTSIDE AIR DAMPERS ARE CLOSED.
2. PROVIDE UNIT WITH START/STOP ABILITY BASED ON A TIME-OF-DAY SCHEDULE WITH THE ABILITY FOR OPTIMUM START.

   WARM-UP: THE EMCS SHALL DETERMINE THE REQUIRED WARM-UP PERIOD BASED ON THE OPTIMIZED START ALGORITHM. IN THIS MODE, THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED AND THE EMCS WILL CONTROL THE UNIT TO REACH OCCUPIED HEATING SETPOINT OF 70F (ADJ). ONCE THE OCCUPIED HEATING SETPOINT HAS BEEN REACHED, THE EMCS SHALL SWITCH THE UNIT TO THE OCCUPIED MODE.

   COOL-DOWN: THE EMCS SHALL DETERMINE THE REQUIRED COOL-DOWN PERIOD BASED ON THE OPTIMIZED START ALGORITHM. IN THIS MODE THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED AND THE EMCS WILL CONTROL THE UNIT TO REACH OCCUPIED COOLING SETPOINT TEMPERATURE OF 74F (ADJ). ONCE THE OCCUPIED COOLING SETPOINT TEMPERATURE HAS BEEN REACHED, THE EMBS SHALL SWITCH THE UNIT TO THE OCCUPIED MODE.
3. COOLING CONTROL: IF ZONE TEMPERATURE IS ABOVE SET POINT, COMPRESSOR(S) WILL CYCLE ON/OFF AS REQUIRED TO MAINTAIN SET POINT. EVAP FAN SHALL MODULATE TO MATCH THE STAGES OF COMPRESSION.
4. HEATING CONTROL: IF ZONE TEMPERATURE IS BELOW SET POINT, HEAT WILL CYCLE ON/OFF AS REQUIRED TO MAINTAIN SET POINT. EVAPORATOR FAN SHALL BE ON HIGH SPEED DURING HEATING MODE.
5. PROVIDE FAN STATUS (ON/OFF). PROVIDE AN ALARM FOR FAN FAILURE.
6. MONITOR SUPPLY AIR TEMPERATURE AND TRANSMIT TO USER INTERFACE.
7. ECONOMIZER MODE: UNIT SHALL USE A DB ECONOMIZER. ECONOMIZER MODE SHALL ENGAGE WHEN THE AMBIENT AIR TEMPERATURE REACHES 55F (ADJ). THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE COMPRESSOR OPERATION SHALL BE PER THE MANUFACTURER WHEN THE ECONOMIZER IS ACTIVATED.
8. DUCT SMOKE DETECTORS STOP ALL UNIT FANS AND CLOSE THE OUTSIDE AIR DAMPER WHENEVER THE PRESENCE OF SMOKE IS DETECTED. TO RESTART THE UNIT FANS, THE SMOKE DETECTORS AND THE CONTROL PANEL MUST BE MANUALLY RESET.
9. FILTER CONDITION IS MONITORED BY A PRESSURE GAUGE AND A DIFFERENTIAL PRESSURE SWITCH. WHEN THE PRESSURE DROP ACROSS THE FILTER REACHED THE SWITCH SETPOINT, THE SWITCH ENABLES AN ALARM AT THE CONTROL PANEL.
10. DURING UNOCCUPIED OPERATION, THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED.
11. HEAT PUMP LOCKOUT: THE HEATING COIL SHALL BE MODULATED BASED ON THE SPACE MOUNTED TEMPERATURE SENSOR TO MAINTAIN THE TEMPERATURE SET POINT (70F ADJ). WHEN THE OUTSIDE TEMPERATURE IS BELOW 45F, HEAT PUMP MODE SHALL BE DISENGAGED AND ELECTRIC HEAT SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE SET POINT (70F ADJ).



SEQUENCE OF OPERATION: EF-K101A/B AND MUA-K101

1. EXHAUST FANS EF-K101A/B SHALL BE INTERLOCKED WITH SUPPLY FAN MAU-K101 TO RUN SIMULTANEOUSLY. EXHAUST FANS OPERATION SHALL BE CONTROLLED THROUGH ON / OFF SWITCH LOCATED ON THE HOOD. MAU-K101 SHALL BE ACTIVATED ANY TIME THE EXHAUST FANS ARE ACTIVATED. FANS SHALL BE BALANCED FOR THE SCHEDULED AIR FLOW AS DIRECTED BY THE KITCHEN CONSULTANTS PLANS UNLESS NOTED OTHERWISE.
2. PROVDE DIFFERENTIAL PRESSURE SWITCH FOR THE FILTER, SET INITIALLY AT 1.25" S.P. (ADJ.), TO ENERGIZE A "CHANGE FILTER" (AMBER) LIGHT LOCATED ON HOOD NEXT TO ON / OFF SWITCH. THE INDICATOR LIGHTS SHALL BE POWERED BY THE CONTROL (LOW VOLTAGE) SYSTEM.
3. COOLING CONTROL (MAU-K101): IF AMBIENT TEMPERATURE IS EQUAL TO OR GREATER THAN 50°F (ADJ.), EVAPORATOR FAN SHALL BE ENGAGED AND COMPRESSOR SHALL BE DISENGAGED. ONCE AMBIENT TEMPERATURES REACHES OR EXCEEDS 80°F (ADJ.), COMPRESSORS SHALL ENGAGE AND UNIT SHALL BE IN COOLING MODE.
4. HEATING CONTROL (MAU-K101): IF AMBIENT TEMPERATURE IS EQUAL TO OR LESS THAN 50°F (ADJ.), UNIT SHALL BE IN HEATING MODE.
5. FANS STATUS SHALL BE MONITORED BY BAS THROUGH CURRENT SENSOR, IF FAN FAILS TO OPERATE WHEN REQUIRED AN ALARM SHALL BE SENT TO CONTROL PANEL.

1 M904 KITCHEN EXHAUST FAN AND MAKE-UP AIR UNIT SEQUENCE OF OPERATION
N.T.S.

GEORGIA REGISTERED No. 23205 PROFESSIONAL ENGINEER D. J. PENN

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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 003
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

MECHANICAL CONTROL DIAGRAMS

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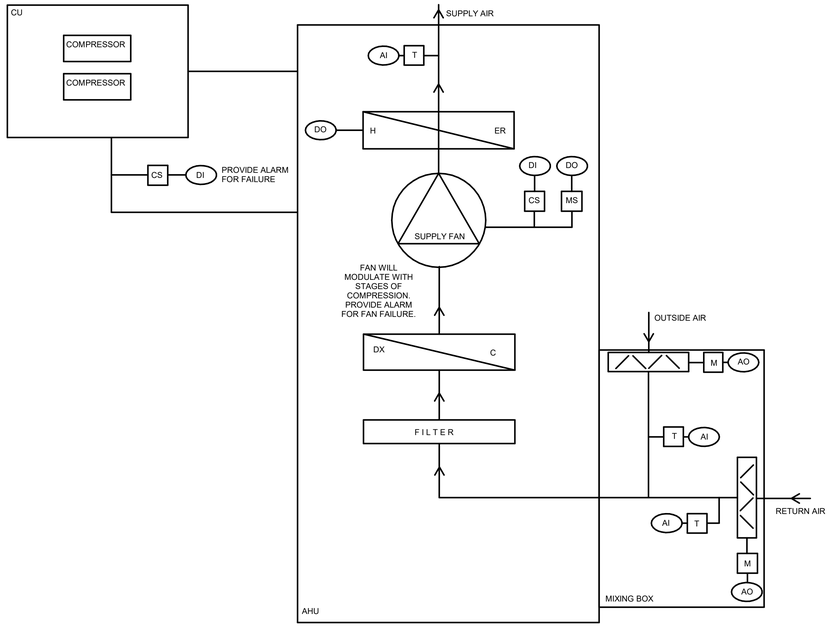


SEQUENCE OF OPERATION: SPLIT SYSTEM

1. WHEN THE SUPPLY FAN IS OFF, ALL COMPRESSORS AND HEATER ARE OFF, AND THE RETURN AIR OUTSIDE AIR DAMPERS ARE CLOSED.

2. PROVIDE UNIT WITH START/STOP ABILITY BASED ON A TIME-OF-DAY SCHEDULE WITH THE ABILITY FOR OPTIMUM START.

   WARM-UP: THE EMCS SHALL DETERMINE THE REQUIRED WARM-UP PERIOD BASED ON THE OPTIMIZED START ALGORTHM. IN THIS MODE, THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED AND THE EMCS WILL CONTROL THE UNIT TO REACH OCCUPIED HEATING SETPOINT OF 70F (ADJ). ONCE THE OCCUPIED HEATING SETPOINT HAS BEEN REACHED, THE EMCS SHALL SWITCH THE UNIT TO THE OCCUPIED MODE.

   COOL-DOWN: THE EMCS SHALL DETERMINE THE REQUIRED COOL-DOWN PERIOD BASED ON THE OPTIMIZED START ALGORITHM. IN THIS MODE THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED AND THE EMCS WILL CONTROL THE UNIT TO REACH OCCUPIED COOLING SETPOINT TEMPERATURE OF 74F (ADJ). ONCE THE OCCUPIED COOLING SETPOINT TEMPERATURE HAS BEEN REACHED, THE EMBS SHALL SWITCH THE UNIT TO THE OCCUPIED MODE.

3. COOLING CONTROL: IF ZONE TEMPERATURE IS ABOVE SET POINT, COMPRESSOR(S) WILL CYCLE ON/OFF AS REQUIRED TO MAINTAIN SET POINT. EVAP FAN SHALL MODULATE TO MATCH THE STAGES OF COMPRESSION.

4. HEATING CONTROL: IF ZONE TEMPERATURE IS BELOW SET POINT, HEAT WILL CYCLE ON/OFF AS REQUIRED TO MAINTAIN SET POINT. EVAPORATOR FAN SHALL BE ON HIGH SPEED DURING HEATING MODE.

5. PROVIDE FAN STATUS (ON/OFF). PROVIDE AN ALARM FOR FAN FAILURE.

6. MONITOR SUPPLY AIR TEMPERATURE AND TRANSMIT TO USER INTERFACE.

7. DUCT SMOKE DETECTORS STOP ALL UNIT FANS AND CLOSE THE OUTSIDE AIR DAMPER WHENEVER THE PRESENCE OF SMOKE IS DETECTED. TO RESTART THE UNIT FANS, THE SMOKE DETECTORS AND THE CONTROL PANEL MUST BE MANUALLY RESET.

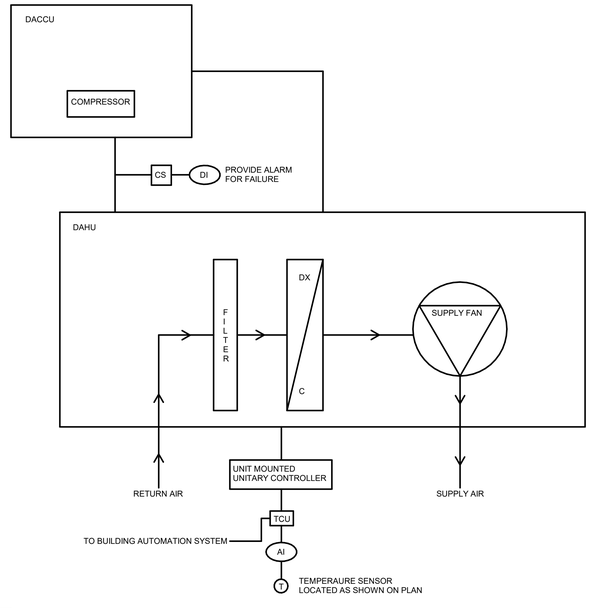
8. FILTER CONDITION IS MONITORED BY A PRESSURE GAUGE AND A DIFFERENTIAL PRESSURE SWITCH. WHEN THE PRESSURE DROP ACROSS THE FILTER REACHED THE SWITCH SETPOINT, THE SWITCH ENABLES AN ALARM AT THE CONTROL PANEL.

9. DURING UNOCCUPIED OPERATION, THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED.

10. MODULATING OUTSIDE AIR: DURING OCCUPIED MODE, DAMPER SHALL MODULATE BASED ON A SIGNAL FROM CO2 SENSORS TO MAINTAIN LEVEL OF 1200 PPM (ADJ) MAXIMUM IN SPACE.

11. ECONOMIZER MODE: UNIT SHALL USE A DB ECONOMIZER. ECONOMIZER MODE SHALL ENGAGE WHEN THE AMBIENT AIR TEMPERATURE REACHES 55F (ADJ). THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE COMPRESSOR OPERATION SHALL BE PER THE MANUFACTURER WHEN THE ECONOMIZER IS ACTIVATED.

2 M905 SPLIT SYSTEM CONTROL DIAGRAM
N.T.S.



SEQUENCE OF OPERATION: DUCTLESS SPLIT

1. PROVIDE ANCONTROLLER FOR POINTS REQUIRED BY THE CONTROL DOCUMENTS AND NECASSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION. THE CONTROLS SHALL BE ENERGIXED TO OPERATE CONTINUOUSLY.

2. MONITOR ZONE TEMPERATURE THROUGH TEMPERATURE SENSRO. SET OCCUPIED MODE AR 75 DEGREES FAHRENHEIT FOR COOLING SET POINT.

3. WHEN TEMPERATURE IS ABOVE COOLING SET POINT (UNNOCCUPIED/OCCUPIED MODE), DAHU/DACCU SHALL STAGE OFF, AFTER A MINIMUM RUN TIME OF 5 MINUTES, WHEN SET POINT IS MET.

4. IF THE TEMPERATURE INCREASES ABOVE THE SET POINT BY 5 DEGREES (USER ADJUSTABLE) AN ALARM SHALL BE SENT TO THE FRONT END.

5. PROVIDE AN ALRAM TO THE BAS IF DAHU/DACCU CONDENSATE PAN OVERFLOWS/PUMP FAILURE.

6. UNITS DO NOT RUN BASED UPON THE BUILDING SCHEDULE. UNIT CYCLES TO MAINTAIN 75 DEGREE FAHRENHEIT TEMPERATURE 24 HOURS A DAY, 7 DAYS A WEEK.

7. PROVIDE FOR AHU STATUS (ON/OFF). PROVIDE AN ALARM FOR AHU AND CONDENSATE PUMP FAILURE.

1 M905 DUCTLESS SPLIT CONTROL DIAGRAM
N.T.S.

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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 860
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

MECHANICAL CONTROL DIAGRAMS

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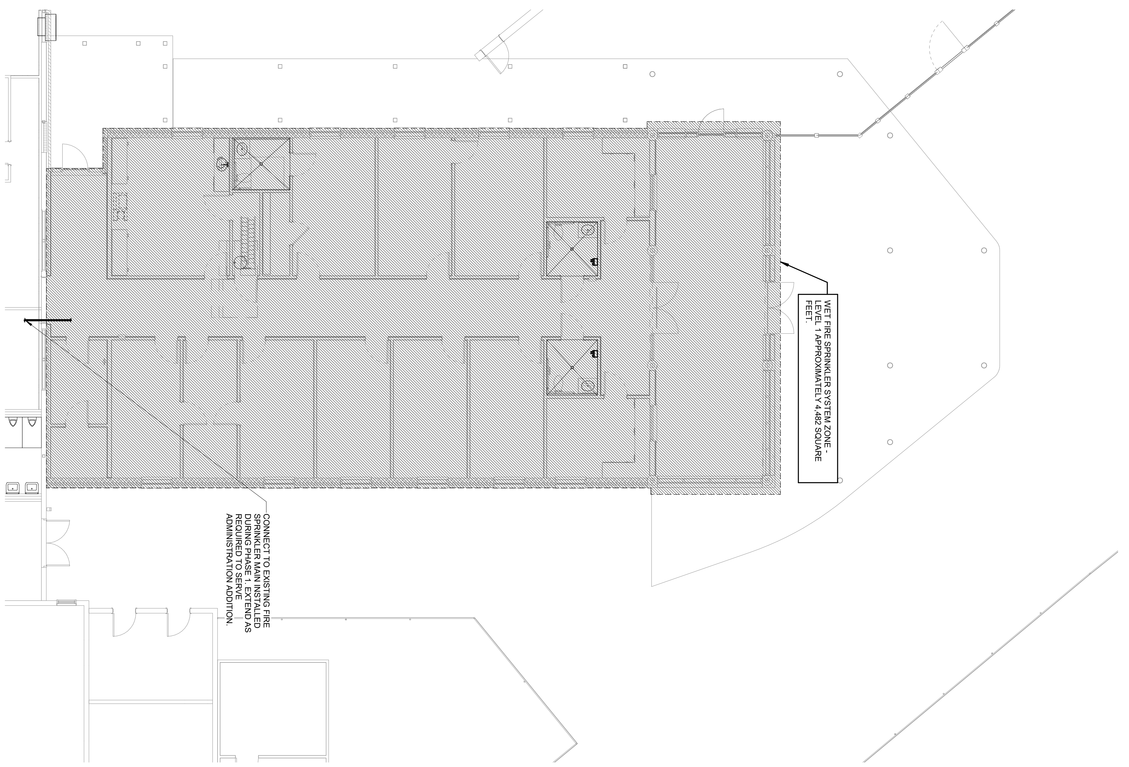

1 FP201
1/8" = 1'-0"
FIRE PROTECTION PLAN - ADMINISTRATION ADDITION

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ISSUED FOR:	CAPITAL OUTLAY PROJECT # TBD
	SYSTEM CODE: 663
DATE: 09/26/2022	SCHOOL CODE: 0310
PROJECT NUMBER: 2035	FTE: 693

FIRE PROTECTION PLAN - ADMINISTRATION ADDITION

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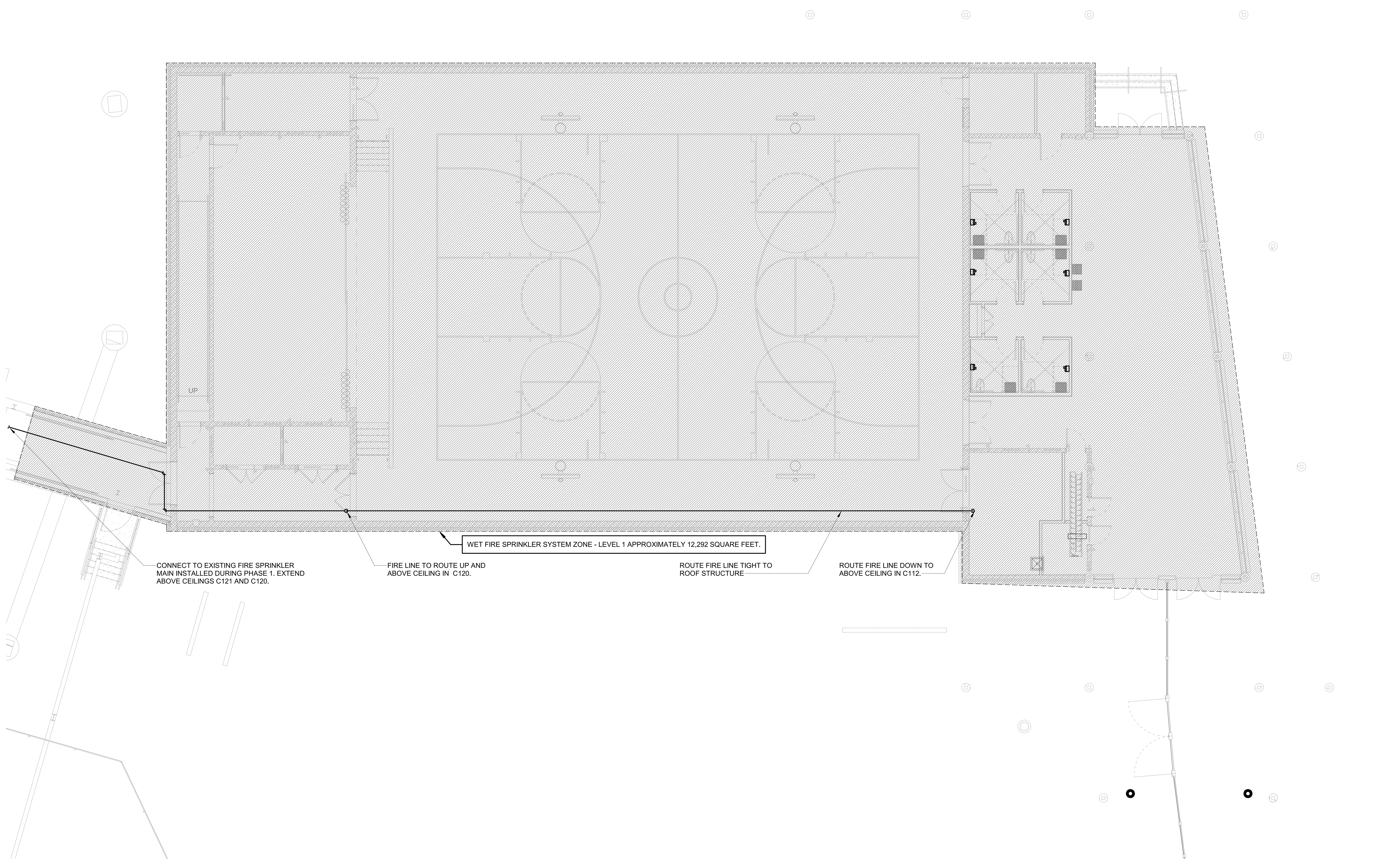
GEORGIA REGISTERED No. 23208 PROFESSIONAL J. PENN ENGINEER



1 FIRE PROTECTION PLAN - NEW GYMNASIUM
FP301 1/8" = 1'-0"

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SCHOOL CODE: 0310
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FIRE PROTECTION PLAN - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE

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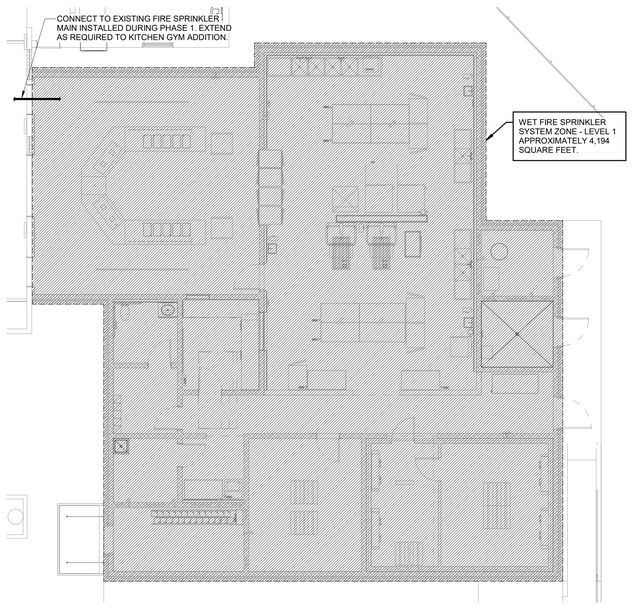
FP301



1 FP401 FIRE PROTECTION PLAN - KITCHEN ADDITION
1/8" = 1'-0"

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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

FIRE PROTECTION PLAN - KITCHEN ADDITION

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SHEET:
FP401

POWER REFERENCE NOTES

1. REFER TO SHEET E501-E503 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E601 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E701 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E702 FOR ELECTRICAL PANEL SCHEDULES.

POWER NOTES

1. REFER TO ELECTRICAL DISCONNECT SCHEDULE SHEET E601 FOR MECHANICAL EQUIPMENT CIRCUIT AND DISCONNECT INFORMATION.
2. CONDUIT MUST BE RUN CONCEALED INSIDE THE BUILDING ENVELOPE.

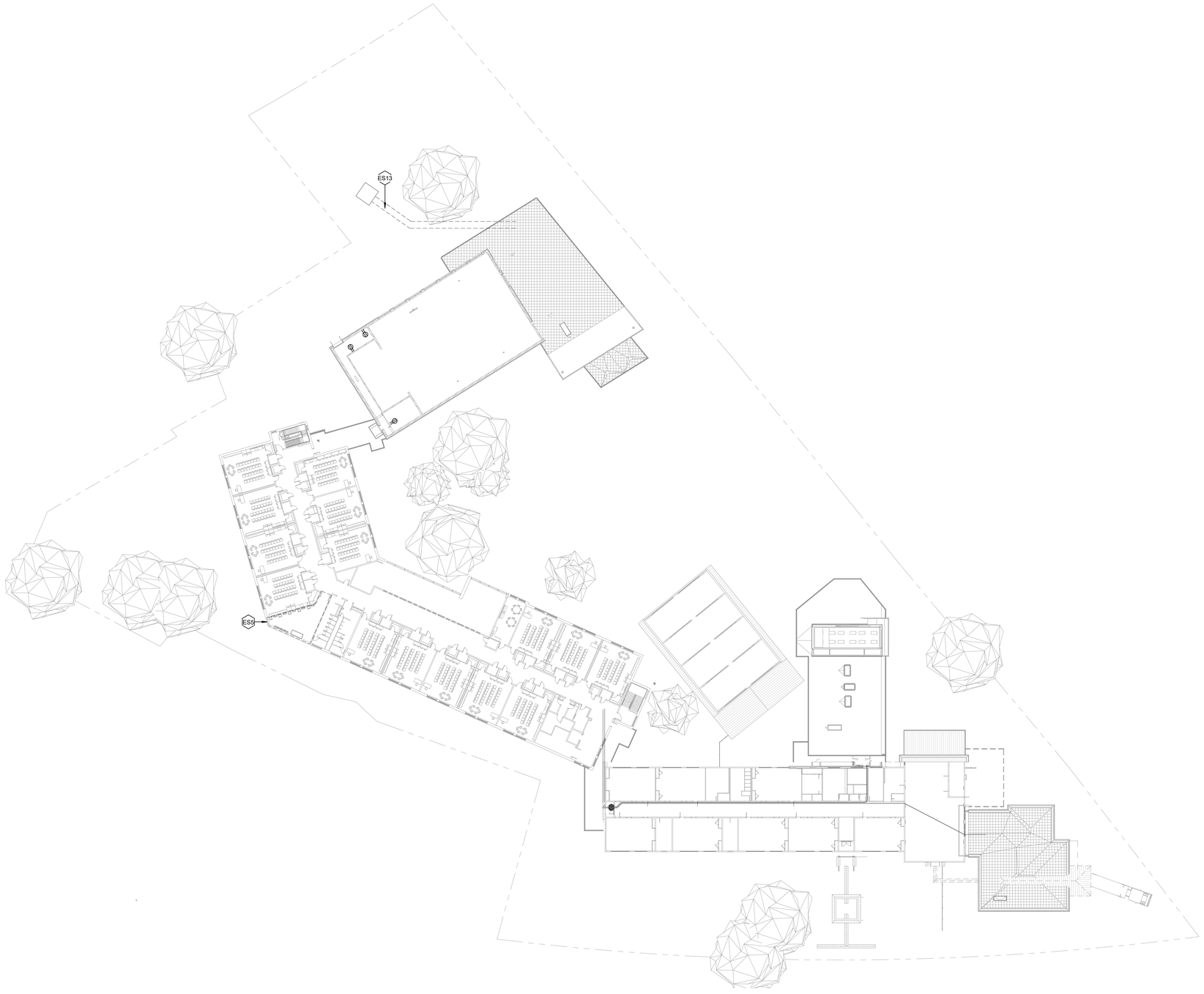
ELECTRICAL SITE GENERAL NOTES:

1. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE PLANS. THERE MAY BE OTHER EXISTING UTILITIES NOT SHOWN ON PLANS. LOCATIONS OF EXISTING UTILITIES DEPICTED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

ELECTRICAL SITE (ES) NOTES BY SYMBOL

ES5 MAIN ELECTRICAL DISTRIBUTION EQUIPMENT LOCATION. REFER TO ELECTRICAL RISER DIAGRAM E711 FOR MORE INFORMATION.

ES13 TWO (2) 4" UNDERGROUND CONDUITS FROM OWNER'S FIBER VAULT TO DATA ROOM C111. REFERENCE SHEET C3.3 FOR EXACT LOCATION OF FIBER VAULT.



1 ELECTRICAL SITE PLAN - PHASE 4
E001 1" = 30'-0"

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CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 693
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ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

ELECTRICAL SITE PLAN

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E001

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POWER REFERENCE NOTES

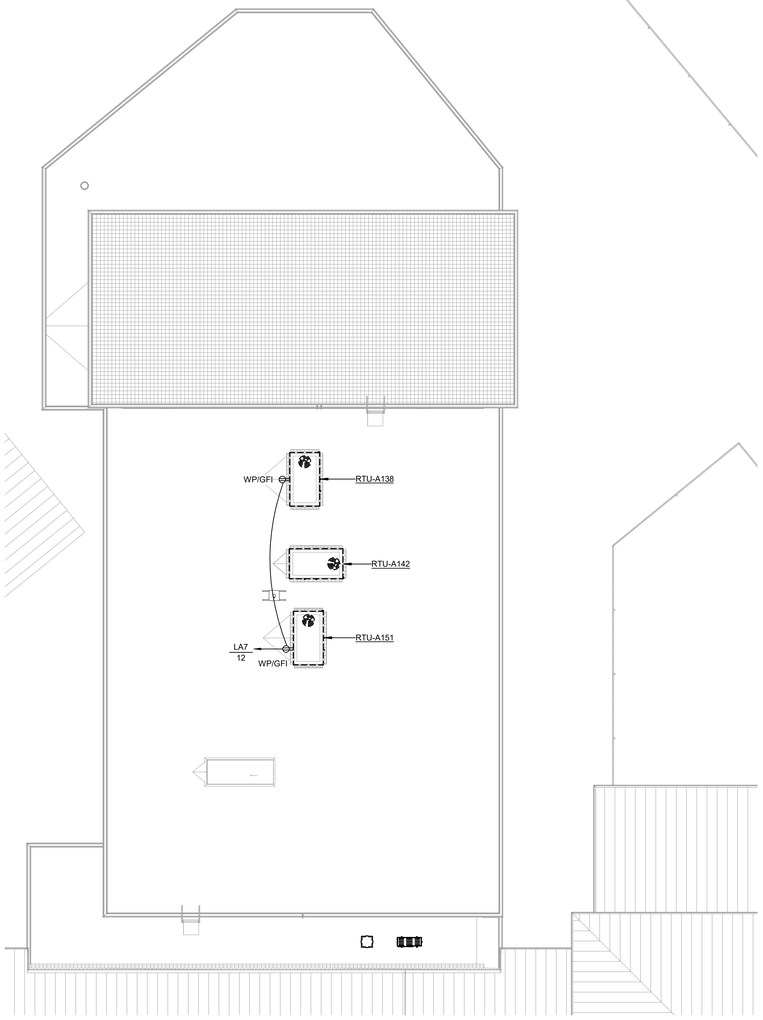
1. REFER TO SHEET E511 & E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

POWER NOTES

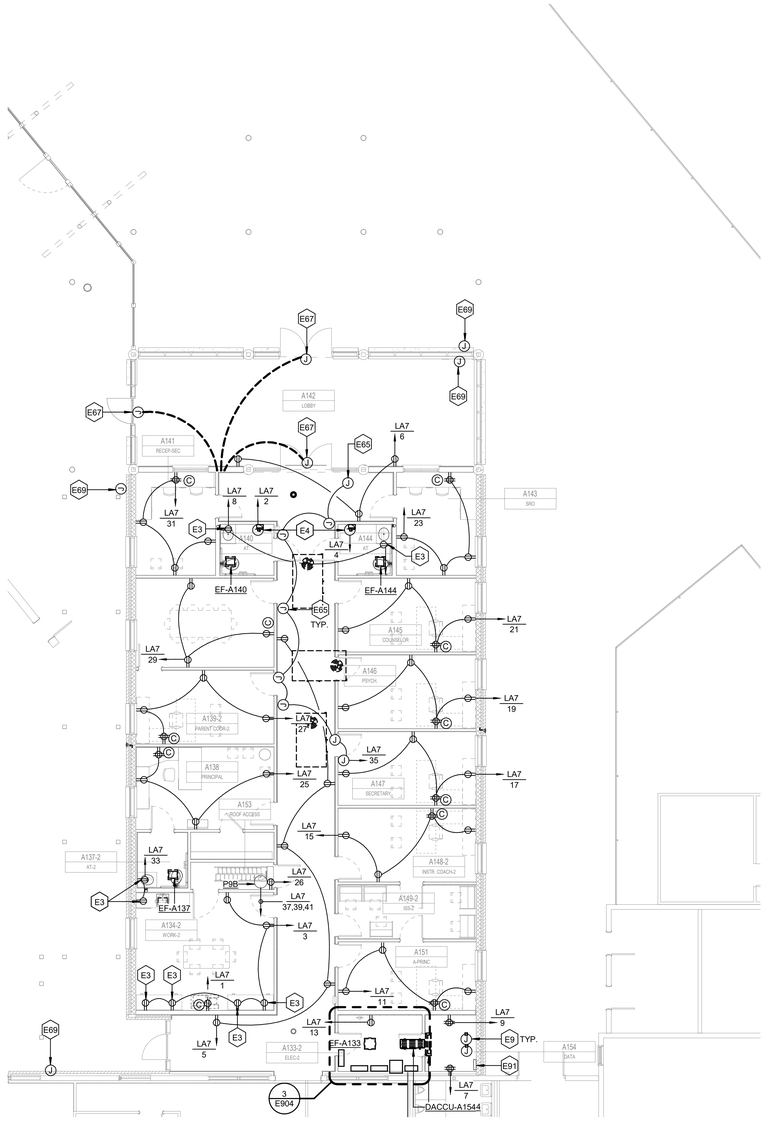
1. REFER TO ELECTRICAL DISCONNECT SCHEDULE SHEET E611 FOR MECHANICAL EQUIPMENT CIRCUIT AND DISCONNECT INFORMATION.
2. CONDUIT MUST BE RUN CONCEALED INSIDE THE BUILDING ENVELOPE.

POWER (E) NOTES BY SYMBOL

E3	ELECTRICAL DEVICE(S) ABOVE COUNTER/SURFACE. ANY RECEPTACLE WITHIN 6'-0" OF SINK SHALL BE GFI RATED. VERIFY WITH CASEWORK HEIGHT PRIOR TO ROUGH IN. COORDINATE EXACT LOCATION WITH ARCHITECT.
E4	WIRED J-BOX FOR HAND DRYER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT USED. COORDINATE ROUGH-IN WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATION WITH ARCHITECT.
E9	CEILING MOUNTED J-BOX WITH TWISTLOCK SO DROP CORD AND STRAIN RELIEF FOR UPS POWER. VERIFY POWER REQUIREMENTS AND RECEPTACLE TYPE WITH EQUIPMENT USED. COORDINATE WITH TECHNOLOGY CONTRACTOR PRIOR TO INSTALLATION. REFER TO DETAIL FOR MORE INFORMATION.
E65	PROVIDE J-BOX FOR SMOKE DAMPERS.
E67	3/4" CONDUIT RUN ABOVE CEILING TO DOOR HARDWARE ENCOLSURE(S) ABOVE CEILING.
E69	JUNCTION BOX FOR FUTURE SECURITY CAMERA. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
E91	INSTALL GROUND BUSS PER DETAIL 6/E-511 WITH 4'-8'-3/4" FIRE TREATED PLYWOOD BACKBOARD.



2 POWER PLAN ROOF - ADMINISTRATION ADDITION
E201 1/8" = 1'-0"



1 POWER PLAN - ADMINISTRATION ADDITION
E201 1/8" = 1'-0"

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POWER PLAN - ADMINISTRATION ADDITION

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SHEET:
E201

LIGHTING REFERENCE NOTES

1. REFER TO SHEET E511-E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

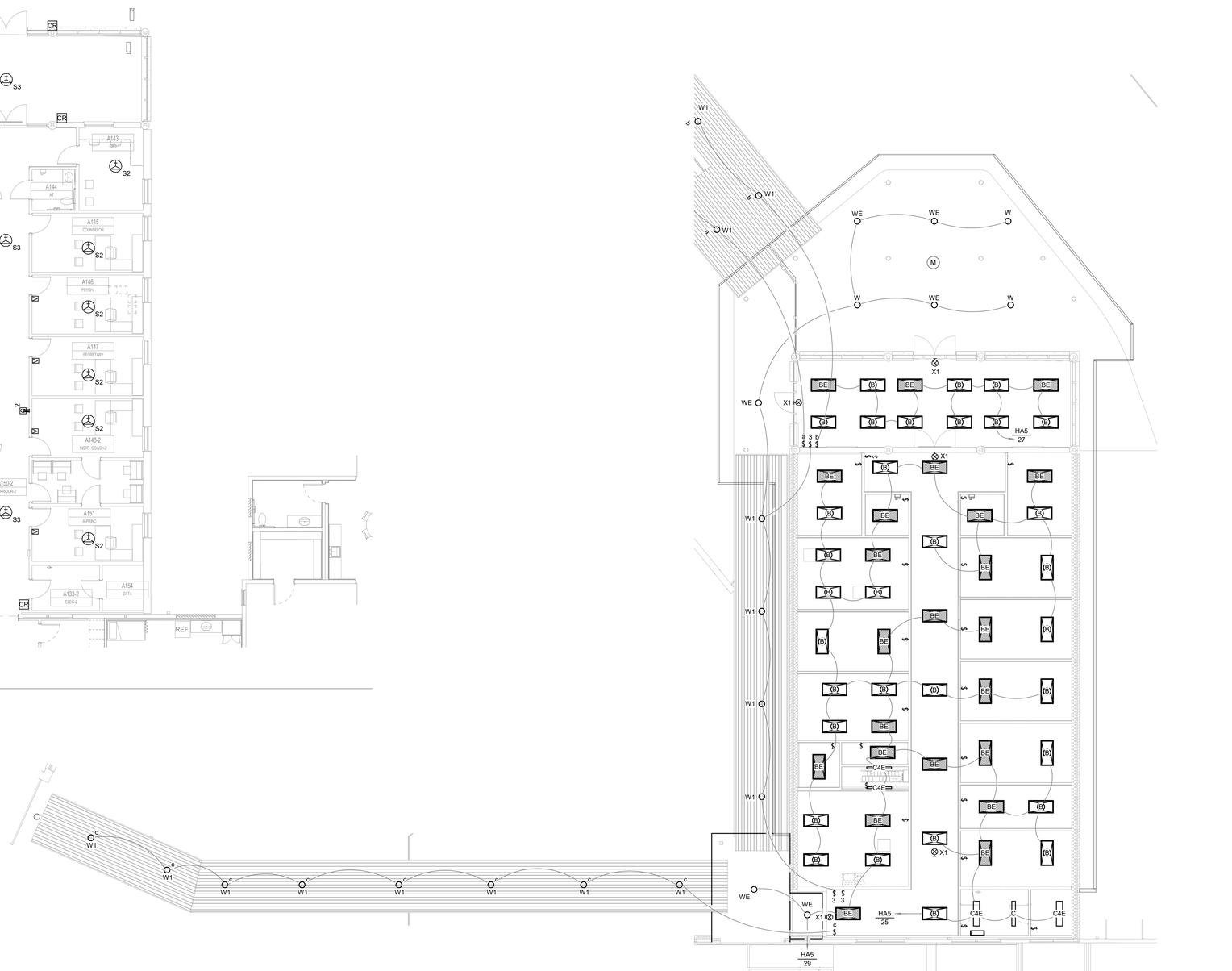
GENERAL LIGHTING NOTES

NOTES:
1. ALL EXIT LIGHTS TO BE CIRCUITED ON LOCAL AREA EMERGENCY LIGHT CIRCUIT ON UN-SWITCHED LEG.

OCCUPANCY/VACANCY SENSOR TABLE

SENSOR TYPE	LOCATION
OCCUPANCY SENSOR	CORRIDOR, RESTROOM, STORAGE, UTILITY SPACES
VACANCY SENSOR	CLASSROOM, OFFICE, BREAK ROOM, CONFERENCE, MULTI-PURPOSE

2 AUXILARY PLAN - ADMINISTRATION ADDITION
E202 1/8" = 1'-0"



1 LIGHTING PLAN - ADMINISTRATION ADDITION
E202 1/8" = 1'-0"

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION

805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

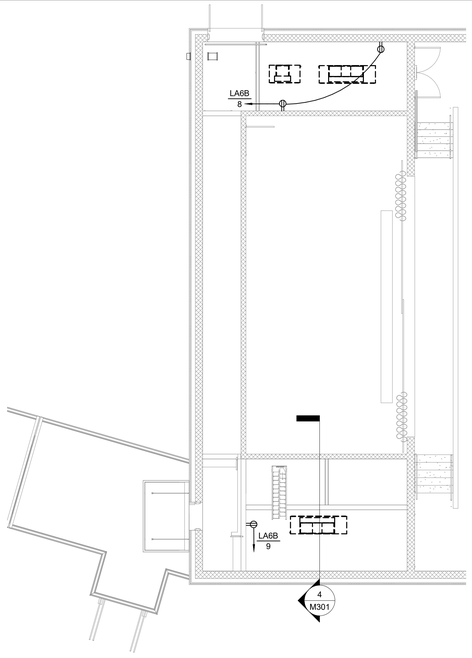
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 883
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

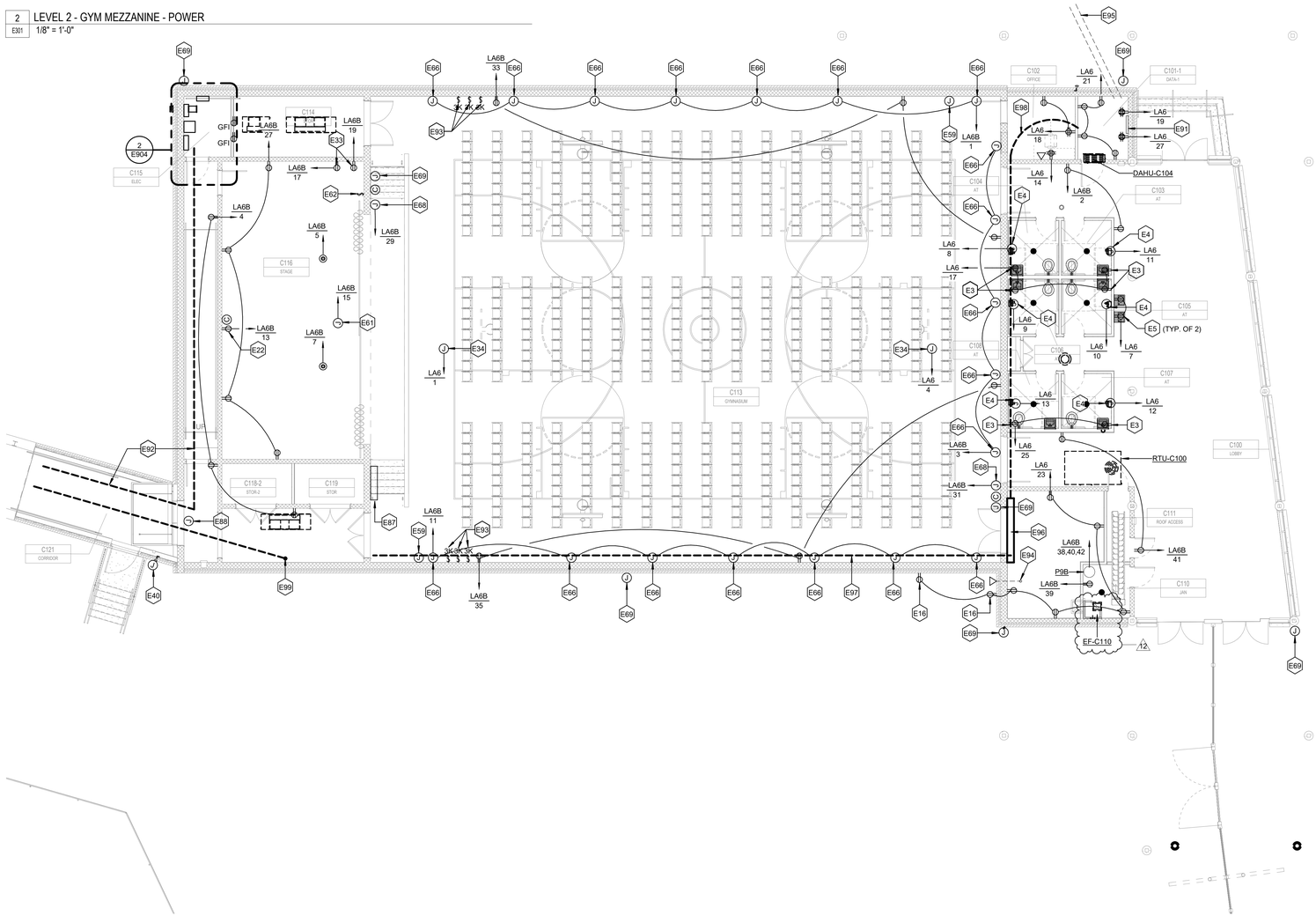
LIGHTING PLAN - ADMINISTRATION ADDITION

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E202



2 LEVEL 2 - GYM MEZZANINE - POWER
E301 1/8" = 1'-0"



1 POWER PLAN - NEW GYMNASIUM
E301 1/8" = 1'-0"

POWER REFERENCE NOTES

1. REFER TO SHEET E511 & E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

POWER NOTES

1. REFER TO ELECTRICAL DISCONNECT SCHEDULE SHEET E611 FOR MECHANICAL EQUIPMENT CIRCUIT AND DISCONNECT INFORMATION.
2. CONDUIT MUST BE RUN CONCEALED INSIDE THE BUILDING ENVELOPE.

POWER (E) NOTES BY SYMBOL

E3	ELECTRICAL DEVICE(S) ABOVE COUNTER/SURFACE. ANY RECEPTACLE WITHIN 6'-0" OF SINK SHALL BE GFI RATED. VERIFY WITH CASEWORK HEIGHT PRIOR TO ROUGH IN. COORDINATE EXACT LOCATION WITH ARCHITECT.
E4	WIRED J-BOX FOR HAND DRYER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT USED. COORDINATE ROUGH-IN WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATION WITH ARCHITECT.
E5	120V GFI RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT PER MANUFACTURERS TEMPLATE.
E16	120V GFCI RECEPTACLE HOUSED IN WEATHER PROOF BOX. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
E22	120V RECEPTACLE AND DATA DROP FOR REAR PROJECTOR. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
E33	RECEPTACLES FOR CONNECTION TO GYM SOUND RACK. COORIDINATE EXACT LOCATION WITH SOUND SYSTEM INSTALLER.
E34	WIRED 120V J-BOX FOR CONNECTION TO MOTORIZED GOAL. COORDINATED EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT USED. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E40	PROVIDE WALL MOUNTED OUTLET BOX AT 40" AFF. ON EXTERIOR WALL WITH CONDUIT PATH TO ABOVE CEILING IN CORRIDOR AND, CONDUIT ACCESS INTO DOOR FRAME FOR OWNER FURNISHED CARD READER.
E59	PROVIDE (2) 4" CONDUIT SLEEVES THRU FLOOR FROM 1ST FLOOR MDF TO 2ND FLOOR DATA ROOM.
E61	WIRED J-BOX FOR MOTORIZED PROJECTION SCREEN. PROVIDE SWITCH PER MANUFACTURERS RECOMMENDATIONS. VERIFY EXACT SWITCH LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
E62	MOTORIZED SCREEN SWITCH. PROVIDE CONTROLS PER PROJECTION SCREEN MANUFACTURERS REQUIREMENTS.
E66	WIRED J-BOX FOR CONNECTION TO EVERY MOTORIZED SHADE IN ROOM C113. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT USED. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. REFERENCE DETAIL 4/E512 TO CONTROL SHADES THROUGH CONTROLS CABINET. SEE ARCH DRAWINGS A331 & A332 FOR ROLLER SHADE LOCATIONS.
E68	WIRED J-BOX AND DATA DROP FOR WIRELESSLY CONTROLLED SCOREBOARD. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
E69	JUNCTION BOX FOR FUTURE SECURITY CAMERA. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
E87	APPROXIMATE LOCATION OF CONTROL CABINET. VERIFY EXACT LOCATION PRIOR TO INSTALLATION. REFERENCE DETAIL 4/E512 FOR MORE INFORMATION.
E88	120V WIRED J-BOX ABOVE CEILING (SECURED SIDE) FOR SECURITY DEVICES. COORDINATE ALL POWER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. COORDINATE EXACT LOCATION WITH ALL EQUIPMENT/DEVICES PRIOR TO ROUGH-IN.
E91	INSTALL GROUND BUSS PER DETAIL 6/E-511 WITH 4'-8'-3/4" FIRE TREATED PLYWOOD BACKBOARD.
E92	ELECTRICAL SERVICE ABOVE CEILINGS IN C121 AND C120 AND RISE IN C120 TO ABOVE CEILING IN C117 AND DOWN INTO ELEC C115.
E93	THREE WAY, KEYED SWITCH FOR CONTROL OF MOTORIZED SHADES PER ZONE.
E94	DATA BOX WITH CONDUIT STUBBED ABOVE STORAGE C112 CEILING.
E95	TWO (2) 4" UNDERGROUND CONDUITS FROM OWNER'S FIBER VAULT TO DATA ROOM C101-1. REFERENCE SHEET E001 FOR MORE INFORMATION.
E96	DATA CABLE RACK. REFERENCE ARCHITECT'S DRAWINGS FOR MORE INFORMATION.
E97	2" DATA CONDUIT RAN HIGH. REFERENCE ARCHITECT'S DRAWINGS FOR MORE INFORMATION.
E98	2" DATA CONDUIT ROUTED IN BAR JOIST WITH SWEEP INTO DATA ROOM. REFERENCE ARCHITECT'S DRAWINGS FOR MORE INFORMATION.
E99	2" CONDUIT THROUGH FLOOR TO CABLE RACK IN ROOM C201. REFERENCE ARCHITECT'S DRAWINGS FOR MORE INFORMATION.

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD:
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

POWER PLAN - NEW GYMNASIUM

NO.	REVISIONS	REVISION / SUBMISSIONS	DATE
12			09/09/22

SHEET:
E301

9/26/2022 4:47:53 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPv2021.rvt

LIGHTING REFERENCE NOTES

1. REFER TO SHEET E511-E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

GENERAL LIGHTING NOTES

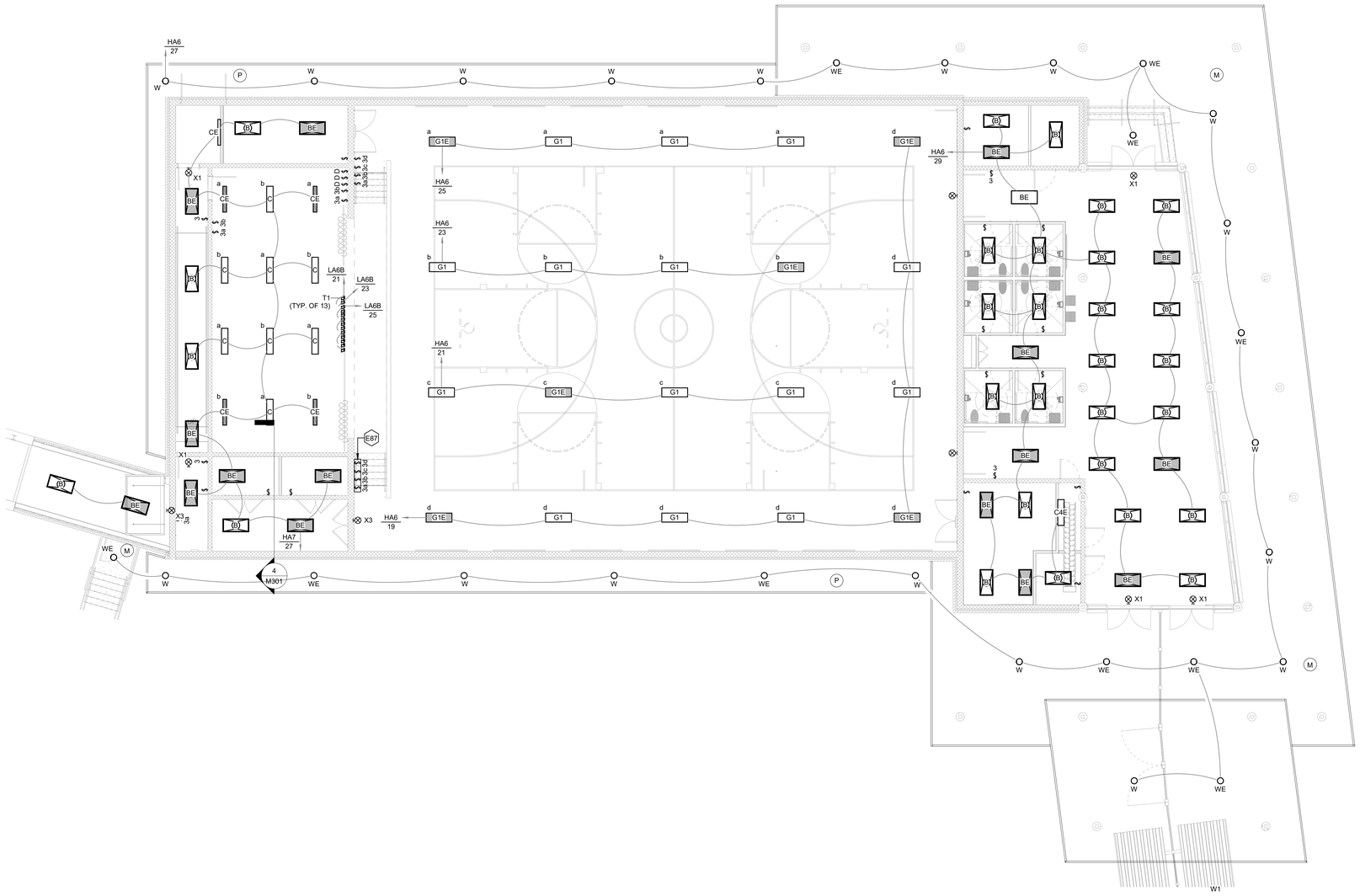
NOTES:
1. ALL EXIT LIGHTS TO BE CIRCUITED ON LOCAL AREA EMERGENCY LIGHT CIRCUIT ON UN-SWITCHED LEG.

OCCUPANCY/VACANCY SENSOR TABLE

SENSOR TYPE	LOCATION
OCCUPANCY SENSOR	CORRIDOR, RESTROOM, STORAGE, UTILITY SPACES
VACANCY SENSOR	CLASSROOM, OFFICE, BREAK ROOM, CONFERENCE, MULTI-PURPOSE

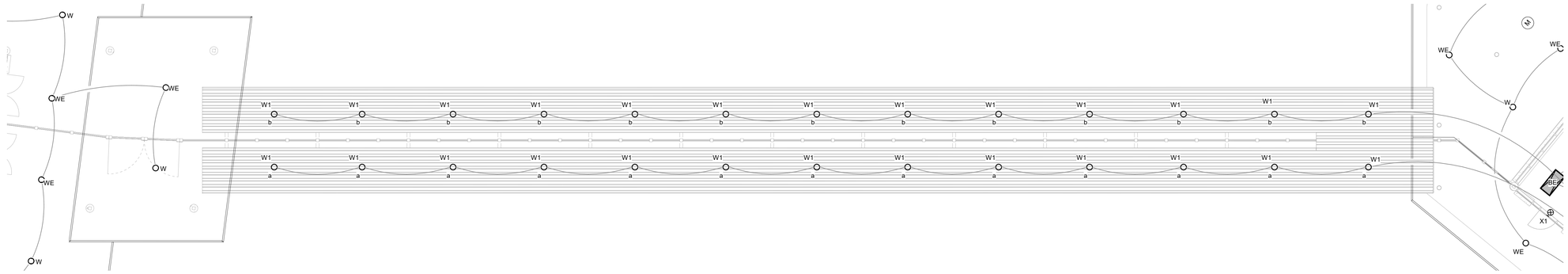
LIGHTING (L) NOTES BY SYMBOL

E87 APPROXIMATE LOCATION OF CONTROL CABINET. VERIFY EXACT LOCATION PRIOR TO INSTALLATION. REFERENCE DETAIL 4/E512 FOR MORE INFORMATION.



1 LIGHTING PLAN - NEW GYMNASIUM
E302 1/8" = 1'-0"

3 LEVEL 2 - GYM MEZZANINE
E302 1/8" = 1'-0"



2 LIGHTING PLAN - GYM CANOPY
E302 1/8" = 1'-0"

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805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 060
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

LIGHTING PLAN - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE

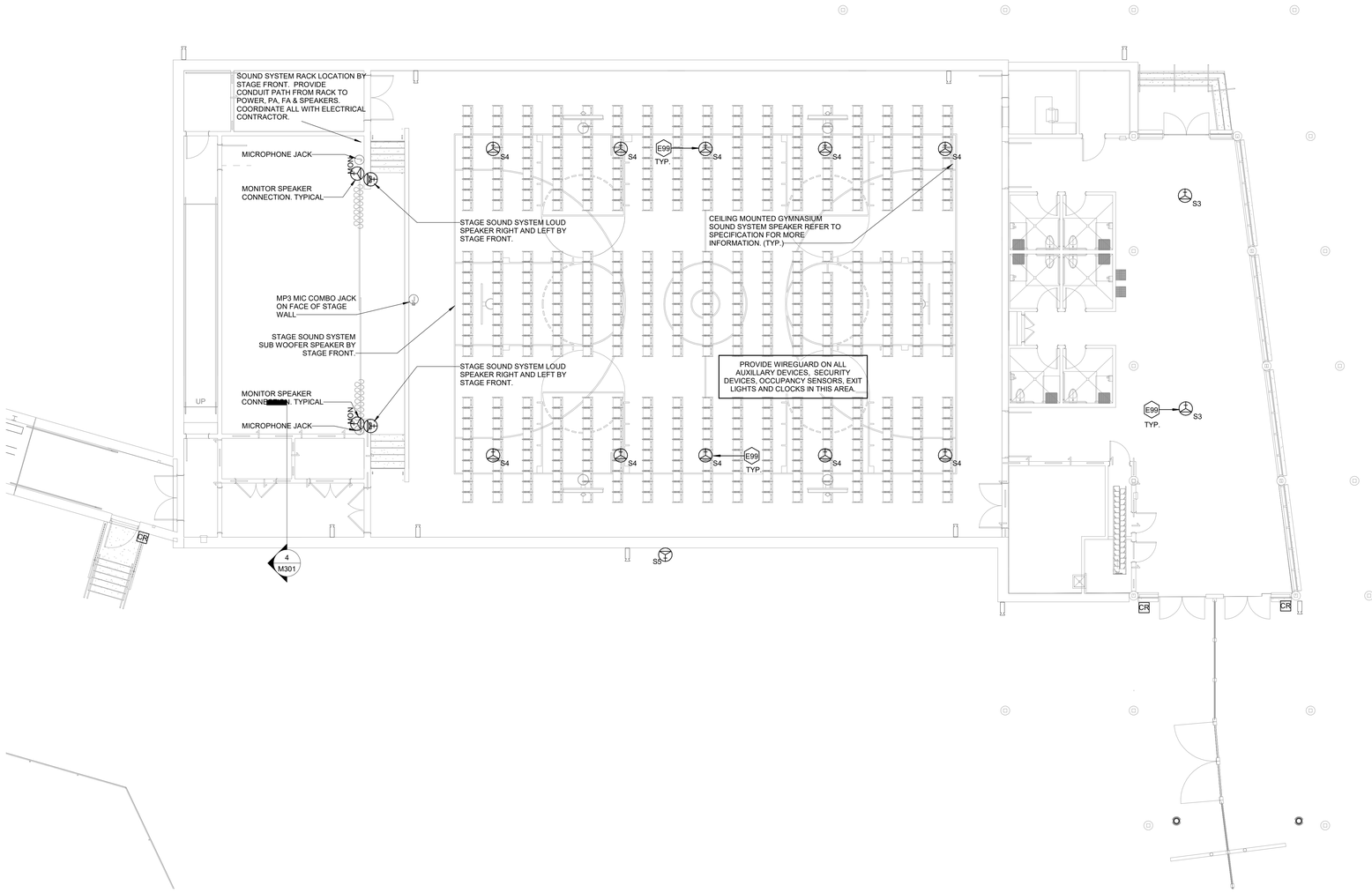
SHEET:
E302

POWER REFERENCE NOTES

1. REFER TO SHEET E511 & E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

POWER NOTES

1. REFER TO ELECTRICAL DISCONNECT SCHEDULE SHEET E611 FOR MECHANICAL EQUIPMENT CIRCUIT AND DISCONNECT INFORMATION.
2. CONDUIT MUST BE RUN CONCEALED INSIDE THE BUILDING ENVELOPE.



1 AUXILARY PLAN - NEW GYMNASIUM
E303 1/8" = 1'-0"

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

AUXILIARY PLAN - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E303

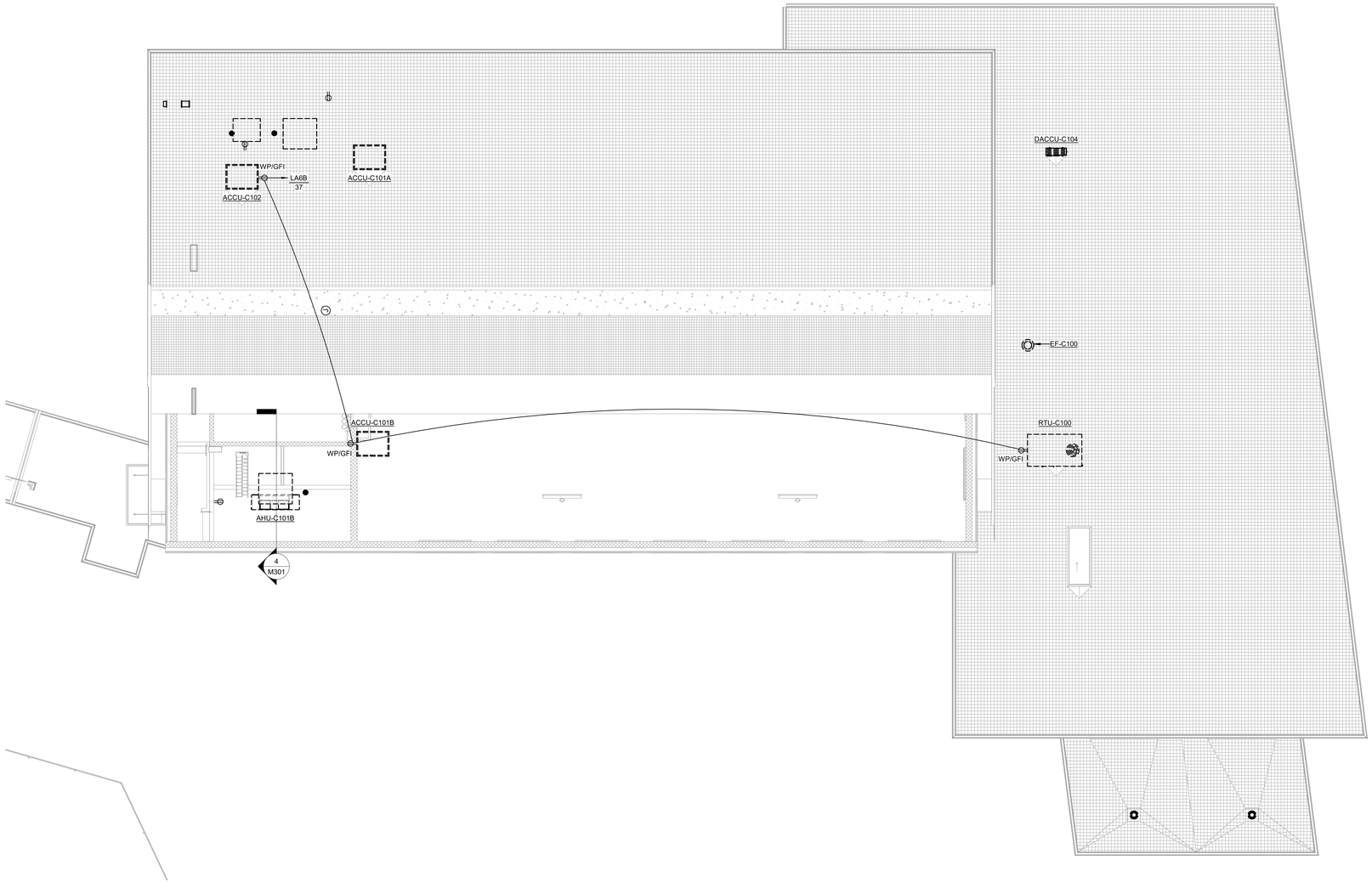
POWER REFERENCE NOTES

1. REFER TO SHEET E511 & E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

POWER NOTES

1. REFER TO ELECTRICAL DISCONNECT SCHEDULE SHEET E611 FOR MECHANICAL EQUIPMENT CIRCUIT AND DISCONNECT INFORMATION.
2. CONDUIT MUST BE RUN CONCEALED INSIDE THE BUILDING ENVELOPE.

POWER (E) NOTES BY SYMBOL



1 POWER PLAN ROOF - NEW GYMNASIUM
E304 1/8" = 1'-0"

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
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GLYNN COUNTY BOARD OF EDUCATION

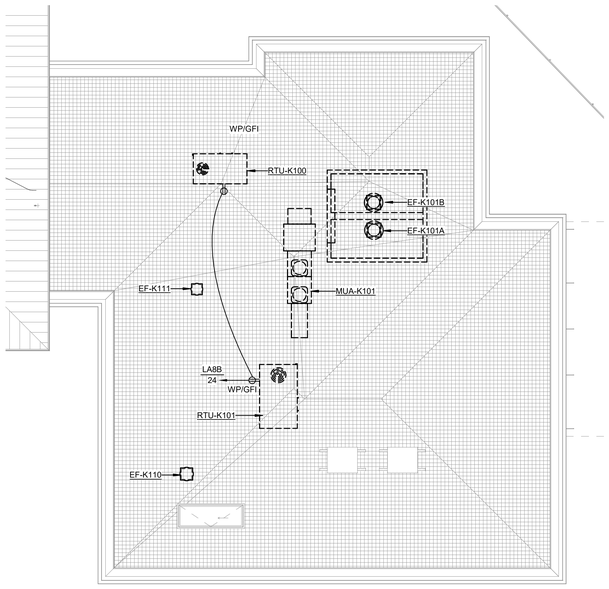
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 003
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

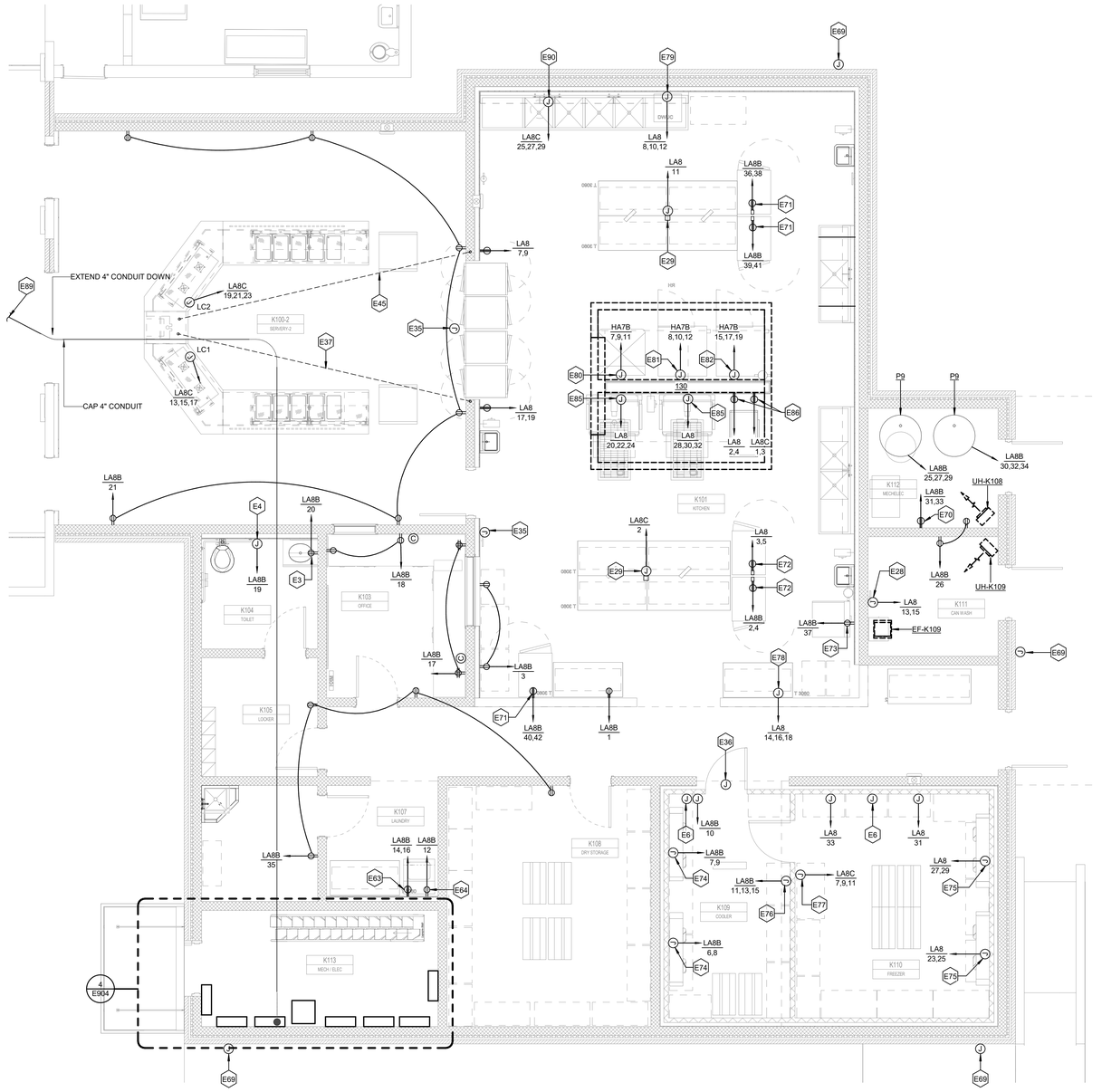
POWER PLAN ROOF - NEW GYMNASIUM

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E304



2 POWER PLAN ROOF - KITCHEN ADDITION
E401 1/8" = 1'-0"



1 POWER PLAN - KITCHEN ADDITION
E401 1/4" = 1'-0"

IMPORTANT NOTE

1. ALL RECEPTACLES IN KITCHEN SHALL BE GFI RATED.
2. ALL EQUIPMENT DISCONNECTS IN KITCHEN SHALL BE STAINLESS STEEL.
3. COORDINATE ALL POWER REQUIREMENTS FOR FOOD SERVICE EQUIPMENT WITH EQUIPMENT SUPPLIER DRAWINGS.
4. VERIFY ALL DEVICE LOCATIONS WITH EQUIPMENT MANUFACTURERS RECOMMENDATIONS. VERIFY WITH EQUIPMENT TO BE USED.
5. COORDINATE RELATED WORK WITH ALL TRADES.
6. ELECTRICAL CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO EQUIPMENT AS NEEDED. VERIFY WITH FOOD SERVICE DRAWINGS.
7. REFER TO FOOD SERVICE ELECTRICAL REQUIREMENTS PLAN FOR ALL KEYED NOTES BY SYMBOL SHOWN ON THIS SHEET.
8. ALL GENERAL USE RECEPTACLES IN KITCHEN AREA 101 SHALL BE MOUNTED MOUNTED AT 48" AFF TO BOTTOM OF DEVICE.

POWER REFERENCE NOTES

1. REFER TO SHEET E511 & E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

POWER NOTES

1. REFER TO ELECTRICAL DISCONNECT SCHEDULE SHEET E611 FOR MECHANICAL EQUIPMENT CIRCUIT AND DISCONNECT INFORMATION.
2. CONDUIT MUST BE RUN CONCEALED INSIDE THE BUILDING ENVELOPE.

POWER (E) NOTES BY SYMBOL

E3	ELECTRICAL DEVICE(S) ABOVE COUNTER/SURFACE. ANY RECEPTACLE WITHIN 6'-0" OF SINK SHALL BE GFI RATED. VERIFY WITH CASEWORK HEIGHT PRIOR TO ROUGH IN. COORDINATE EXACT LOCATION WITH ARCHITECT.
E4	WIRED J-BOX FOR HAND DRYER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT USED. COORDINATE ROUGH-IN WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATION WITH ARCHITECT.
E6	JUNCTION BOX AT 11'-0" FOR FUTURE SECURITY CAMERA. EXTEND CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE ABOVE CEILING IN ADJACENT ROOM.
E28	WIRED J-BOX FOR CONNECTION TO SMT CENTRAL CONTROL UNIT. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
E29	WIRED J-BOX FOR CONNECTION TO CEILING MOUNTED RETRACTABLE POWER CORD KITCHEN LEASH KL-101514-D OR EQUAL. PROVIDE ALL REQUIRED MOUNTING BRACKETS.
E35	JUNCTION BOX AT 1' BELOW CEILING FOR FUTURE SECURITY CAMERA. EXTEND CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE ABOVE CEILING IN ADJACENT ROOM.
E36	WIRED J-BOX FOR CONNECTION TO ALARM SYSTEM. COORDINATED EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT USED. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E37	PROVIDE (2) 1-1/2" CONDUITS FOR ELECTRICAL. ROUTE UP TO ACCESSIBLE CEILING SPACE ABOVE CEILING.
E45	PROVIDE AND INSTALL EMPTY 3/4" CONDUIT ROUTED BELOW FLOOR, STUBBED UP AT SERVING LINE CASH REGISTER FOR FURTURE INSTALLATION OF DATA.
E63	208V SINGLE PHASE RECEPTACLE FOR APPLIANCE COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH EQUIPMENT USED.
E64	120V RECEPTACLE FOR CONNECTION TO APPLIANCE. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT, OWNER AND MILLWORK/CASEWORK PRIOR TO ROUGH-IN.
E69	JUNCTION BOX FOR FUTURE SECURITY CAMERA. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
E70	DEDICATED 208V/1 PH RECEPTACLE FOR CIRCULATION PUMP.
E71	DEDICATED 220V/1 PH RECEPTACLE FOR REACH-IN FREEZER.
E72	DEDICATED 220V/1 PH RECEPTACLE FOR REACH-IN REFRIGERATOR.
E73	DEDICATED 120V/1 PH RECEPTACLE FOR ICE MAKER.
E74	DEDICATED 208V/1 PH J-BOX FOR COOLER COIL.
E75	DEDICATED 208V/1 PH J-BOX FOR FREEZER COIL.
E76	DEDICATED 208V/3 PH J-BOX FOR COOLER CONDENSER LOCATED ON THE ROOF.
E77	DEDICATED 208V/3 PH J-BOX FOR FREEZER CONDENSER LOCATED ON THE ROOF.
E78	DEDICATED 208V/3 PH J-BOX FOR FOOD PROCESSOR.
E79	DEDICATED 208V/3 PH J-BOX FOR DISHWASHER.
E80	DEDICATED 208V/3 PH J-BOX FOR CONVECTION OVEN.
E81	DEDICATED 208V/3 PH J-BOX FOR COMBI OVEN, ELECTRIC OVEN.
E82	DEDICATED 208V/3 PH J-BOX FOR COMBI OVEN, DOUBLE, ELECTRIC OVEN.
E85	DEDICATED 208V/3 PH J-BOX FOR TILTING SKILLET.
E86	DEDICATED 208V/1 PH 6-30P RECEPTACLE FOR SONIC STEAMER.
E89	REFERENCE 1/E111 FOR MORE INFORMATION.
E90	DEDICATED 208V/3 PH J-BOX FOR DISPOSER.

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

POWER PLAN - KITCHEN ADDITION

NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E401

9/26/2022 4:48:03 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPv2021.rvt

LIGHTING REFERENCE NOTES

1. REFER TO SHEET E511-E512 FOR ELECTRICAL DETAILS.
2. REFER TO SHEET E611 FOR ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES.
3. REFER TO SHEET E711 FOR ELECTRICAL RISER DIAGRAMS.
4. REFER TO SHEET E712 FOR ELECTRICAL PANEL SCHEDULES.

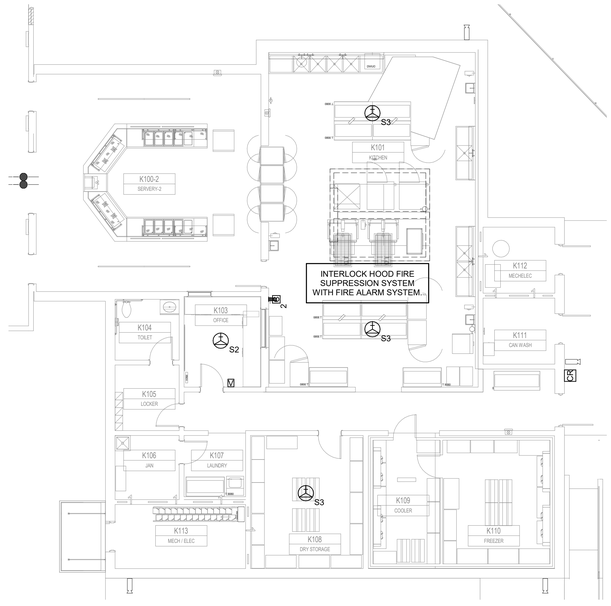
GENERAL LIGHTING NOTES

NOTES:
1. ALL EXIT LIGHTS TO BE CIRCUITED ON LOCAL AREA EMERGENCY LIGHT CIRCUIT ON UN-SWITCHED LEG.

OCCUPANCY/VACANCY SENSOR TABLE

SENSOR TYPE	LOCATION
OCCUPANCY SENSOR	CORRIDOR, RESTROOM, STORAGE, UTILITY SPACES
VACANCY SENSOR	CLASSROOM, OFFICE, BREAK ROOM, CONFERENCE, MULTI-PURPOSE

1 LIGHTING PLAN - KITCHEN ADDITION
E402 1/8" = 1'-0"



2 AUXILARY PLAN - KITCHEN ADDITION
E402 1/8" = 1'-0"

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
817-410-2858

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GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD:
SYSTEM CODE: 893
SCHOOL CODE: 0310
FTE: 693

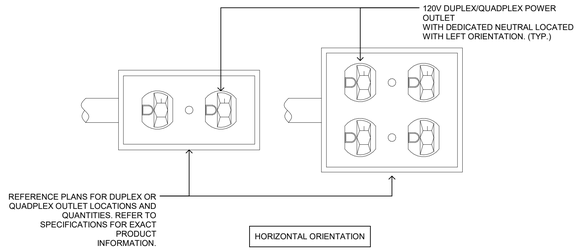
ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

LIGHTING & AUXILARY PLAN - KITCHEN ADDITION

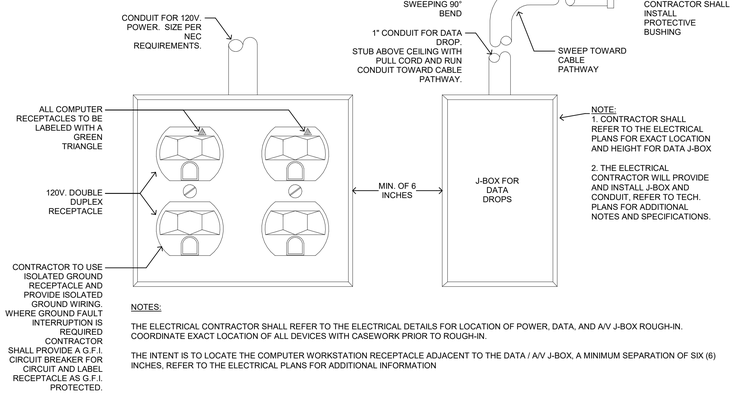
NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E402

9/26/2022 4:48:04 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPx2021.rvt



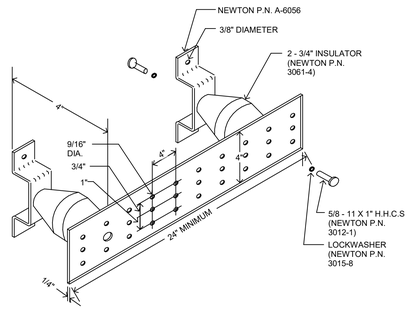
8 E901 TYPICAL RECEPTACLE ORIENTATION DETAIL - PH. 4
N.T.S.



NOTES:
THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ELECTRICAL DETAILS FOR LOCATION OF POWER, DATA, AND A/V J-BOX ROUGH-IN. COORDINATE EXACT LOCATION OF ALL DEVICES WITH CASEWORK PRIOR TO ROUGH-IN.

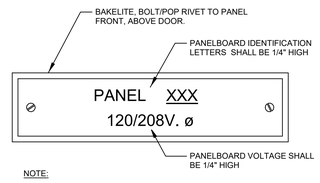
THE INTENT IS TO LOCATE THE COMPUTER WORKSTATION RECEPTACLE ADJACENT TO THE DATA / A/V J-BOX, A MINIMUM SEPARATION OF SIX (6) INCHES, REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION

7 E901 TYPICAL COMPUTER WORKSTATIONS - PH. 4
N.T.S.



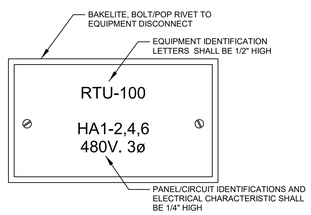
NOTES:
INSTALL #1 GROUNDING WIRE FROM THE BAR TO SERVICE ENTRANCE GROUND. GROUND WIRE SHALL BE EXOTHERMICALLY BONDED AT ALL GROUNDING POINTS. GROUNDING BAR SHALL BE A MINIMUM OF 24" LONG.

6 E901 GROUND BUS BAR DETAIL - PH. 4
N.T.S.



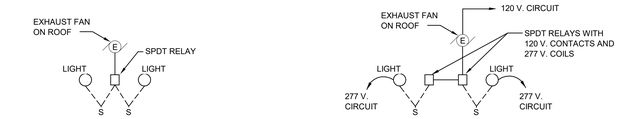
NOTE:
1. ALL NAMEPLATES SHALL BE BLACK WITH WHITE ENGRAVING
2. SAME AS FOR ALL DISCONNECT SWITCHES.

5 E901 PANELBOARD NAMEPLATE - PH. 4
N.T.S.



NOTE
1. ALL NAMEPLATES SHALL BE BLACK WITH WHITE ENGRAVING

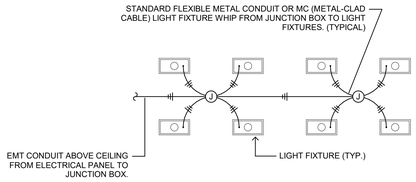
4 E901 EQUIPMENT DISCONNECT NAMEPLATE - PH. 4
N.T.S.



EXHAUST FANS AND LIGHTS ON SEPARATE CIRCUITS - SAME VOLTAGE

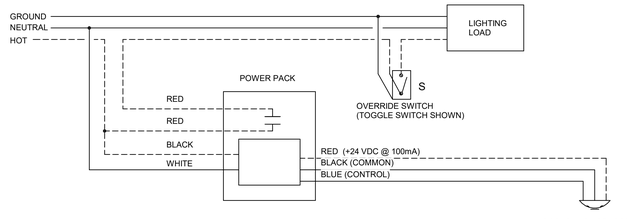
EXHAUST FANS AND LIGHTS ON SEPARATE CIRCUITS - DIFFERENT VOLTAGE

3 E501 EXHAUST FAN & LIGHT INTERLOCK DETAIL - PH. 4
N.T.S.

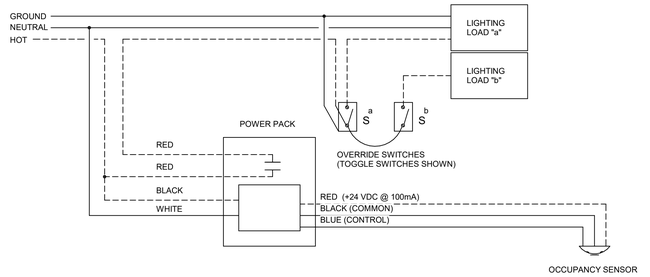


NOTES:
1. MAXIMUM ONE (1) LIGHT FIXTURE WHIP PER LIGHT FIXTURE - DAISY-CHAINING/ THROUGH-WIRING OF FIXTURES NOT ALLOWED.
2. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

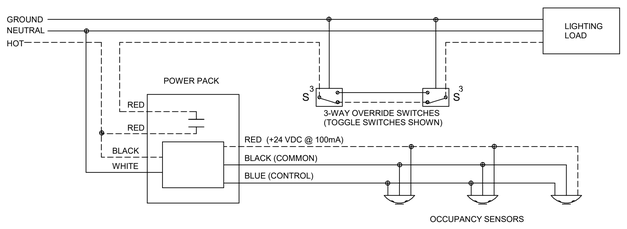
2 E501 LIGHT FIXTURE ELECTRICAL WIRING INSTALLATION DETAIL - PH. 4
N.T.S.



SINGLE LOAD OCCUPANCY SENSOR



DUAL LOAD DUAL SWITCHED OCCUPANCY SENSOR



MULTIPLE SENSORS / 3-WAY OVERRIDE

NOTE: COORDINATE PARTS AND WIRING WITH MANUFACTURERS RECOMMENDATIONS.

1 E901 OCCUPANCY SENSOR WIRING DIAGRAMS - PH. 4
N.T.S.

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

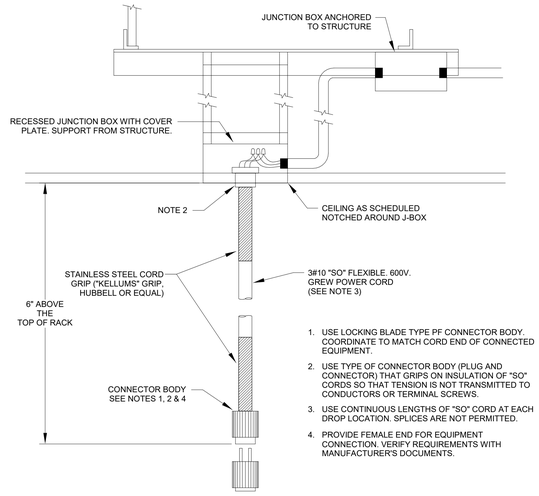
ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

ELECTRICAL DETAILS

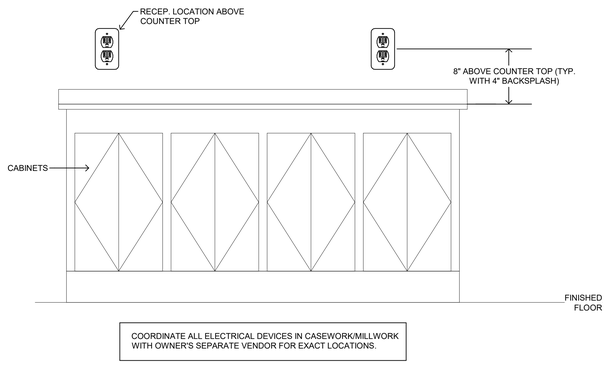
NO.	REVISION / SUBMISSIONS	DATE

SHEET:
E901

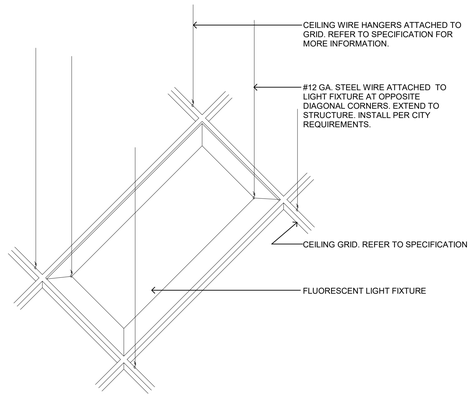
BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPv2021.rvt 9/26/2022 4:48:05 PM



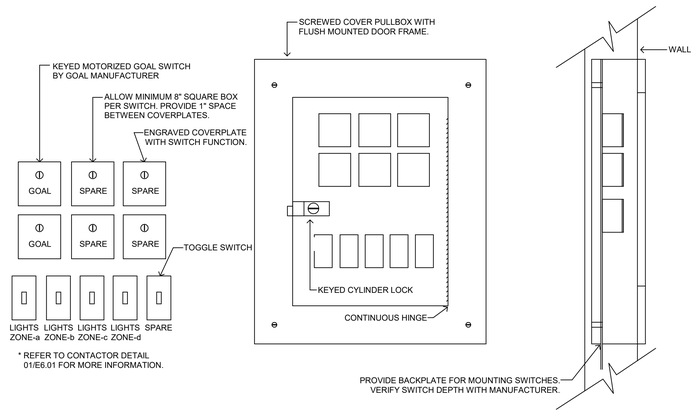
3 E902 TYPICAL DATA EQUIPMENT RACK POWER DROP DETAIL
N.T.S.



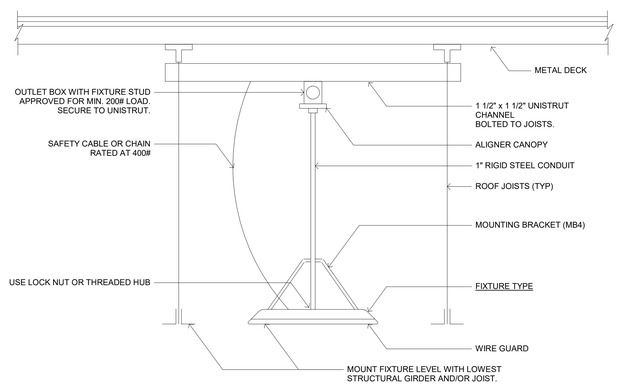
5 E902 WIRING DEVICE MOUNTING HEIGHT
N.T.S.



2 E902 LIGHT FIXTURE SUPPORT DETAIL
N.T.S.



4 E902 GYMNASIUMNASIUM CONTROL CABINET DETAIL
N.T.S.



1 E902 GYMNASIUM LIGHT FIXTURE SUPPORT DETAIL
N.T.S.

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ISSUED FOR:
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PROJECT NUMBER: 2035

ELECTRICAL DETAILS

NO.	REVISION / SUBMISSIONS	DATE
1	ADDENDUM #1	07/13/15

SHEET: E902

9/26/2022 4:48:05 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPv2021.rvt

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	VOLTAGE	REF. NOTE	MOUNTING	LAMPS PER FIXTURE	TOTAL WATTS	LAMP SIZE	REMARKS
B	C-LITE	C-TR-B-FP24-50L-40K-WH	UNV	3	RECESSED	1	50	LED	
BE	C-LITE	C-TR-B-FP24-50L-40K-WH	UNV	3	RECESSED	1	50	LED	EMERGENCY
C	C-LITE	C-VT-A-LIN4-52L-40K-GR	UNV	3	SURFACE	1	39	LED	
C4E	COLUMBIA	LCL4 40HL EU - FIXTURE MOUNTED ATS	UNV	3	PENDENT/SURFACE	1	80	LED	EMERGENCY
CE	C-LITE	C-VT-A-LIN4-52L-40K-GR	UNV	3	SURFACE	1	39	LED	EMERGENCY
G1	ORION	HBAC2-C1-OA-UNV-NDX-840-LF	UNV	3,6	PENDANT	1	195	LED	PROVIDE WITH FACTORY WIRE GUARD
G1E	ORION	HBAC2-C1-OA-UNV-NDX-840-LF	UNV	3,6	PENDANT	1	195	LED	PROVIDE WITH FACTORY WIRE GUARD TRANSFER SWITCH
H	CREE	FLX24-60L-40K-10V-FD	UNV	3	RECESSED	1	47	LED	
HE	CREE	FLX24-60L-40K-10V-EB-FD	UNV	3	RECESSED	1	51	LED	EMERGENCY
K	METALUX	24GR-LD4-48-FI-UNV-L840-CD1-G3	UNV	3	RECESSED	1	31	LED	
KE	METALUX	24GR-LD4-48-FI-UNV-ETS2-L840-CD1-G3	UNV	3	RECESSED	1	31	LED	IOTA EMERGENCY TRANSFER SWITCH
T1	HALO	L3750, L963 ADAPTER	UNV	2,3,4	PENDENT	1	250	LED	TRACK LIGHTING - PROVIDE BARNDOORS & COLOR FILTERS (RED, BLUE, GREEN, AMBER)
W	KENALL	MR13FL20L40K	UNV	1,6,7	SURFACE	1	30	LED	
W1	COOPER LIGHTING	SMD10R209SWHE	UNV	1,6,7	SURFACE	1	27	LED	
W2	MCGRAW-EDISON	IST-B02-LED-E1-GZW-DP-BBB	UNV	1,6,7	SURFACE	1	34	LED	4000K, 4,244 LUMENS (MIN.), EMERGENCY BALLAST
WE	KENALL	MR13FL20L40KLELSA	UNV	1,6,7	SURFACE	1	30	LED	EMERGENCY
X1	EVENLITE	CCDS EM R 1 AB CN	UNV	6,7	SURFACE	1	2	LED	EMERGENCY
X3	SURELITE	UX71 OO R XX	277	6,7	SURFACE	1	3	LED	EMERGENCY

LIGHT FIXTURE SCHEDULE NOTES

* ACCEPTABLE MANUFACTURERS, WHERE SUBMITTING EQUAL FIXTURES (AS DEEMED BY ENGINEER, ARCHITECT AND OWNER), INCLUDE: COOPER LIGHTING AND SUBSIDIARY FIXTURES, HUBBELL LIGHTING INC. AND SUBSIDIARY FIXTURES, AND LITHONIA LIGHTING (ACUITY BRANDS) AND SUBSIDIARY FIXTURES

1 *ON 'OFF' TO BE THRU TIMECLOCK.

2 COORDINATE WITH ARCHITECT DRAWINGS FOR EXACT LENGTHS, IN ONE FOOT INCREMENTS, PRIOR TO BIDDING AND ORDERING FIXTURES. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

3 PROVIDE CEILING TYPE MOUNTING AS REQUIRED, REF. ARCH. DRAWINGS.

4 PROVIDE CHAIN HANGER IN AREAS WITHOUT CEILING, REF. ARCH. DRAWINGS.

5 PROVIDE WALL OR COLUMN TYPE MOUNTING AS REQUIRED, REF. ARCH. DRAWINGS.

6 VERIFY EXACT LOCATION AND HEIGHT W/ ARCH. PRIOR TO ROUGH-IN - REF. ARCH'S ELEVS FOR MORE INFORMATION. ADVISE ARCHITECT WHERE FIXTURES ARE SHOWN IN ARCHITECTURAL FEATURE.

7 VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.

8 PROVIDE WITH ADJUSTABLE CEILING ADAPTER OPTION FOR ALL FIXTURES INSTALLED IN SLOPED CEILING. EC TO VERIFY DEGREE OF SLOPE WITH ARCHITECT PRIOR TO ORDERING FIXTURES.

9 COORDINATE FIXTURE DIMMING COMPONENTS WITH THEATRICAL CONSULTANT'S DIMMING SYSTEM PRIOR TO ORDERING.

10 TYPES A2-ALT AND A3-ALT FOR ALTERNATE BID ONLY. REFER TO SPECIFICATION 26 51 13 FOR LED TUBE LAMP SPECIFICATIONS. FIXTURE CONSTRUCTION SHALL BE MINIMUM 22 GAUGE STEEL WITH HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH FOR HOUSING AND SNAP-IN REFLECTOR. DOOR FRAME SHALL HAVE TWO POSITIVE CAM LATCHES AND LENS SHALL BE .125 ACRYLIC PRISMATIC. MOUNTING SHALL BE SUITABLE FOR LAY-IN CEILING OR GYP BOARD CEILING.

11 PROVIDE REMOTE TRANSFORMERS/POWER SUPPLIES SIZE/ CAPACITY AS REQUIRED FOR EACH SPECIFIC INSTALLATION. REMOTE TRANSFORMERS/POWER SUPPLIES TO BE INSTALLED ABOVE NEAREST ACCESSIBLE LAY-IN CEILING. PROVIDE ENCLOSURES AS REQUIRED AND SUITABLE FOR EACH INSTALLATION.

AUXILIARY SYSTEMS SYMBOL LEGEND

SYMBOL*	DESCRIPTION
SX	CEILING MOUNTED SPEAKER. 'W' INDICATES WIRELESS.
EX	EXTERIOR SPEAKER, MOUNTED 24" BELOW TOP OF WALL
M	PA VOLUME CONTROL, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
1	SINGLE FACED CLOCK, WALL MOUNTED @ 108"AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
2	DUAL FACED CLOCK, WALL MOUNTED @ 108"AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3	SINGLE FACED CLOCK WALL MOUNTED @ 108"AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
4	SINGLE FACED CLOCK WITH WIRE GUARD, WALL MOUNTED @ 108"AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
M	SECURITY SYSTEM MOTION DETECTOR LOCATION. PROVIDE J-BOX AT 96"AFF WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.
SS	SECURITY SYSTEM SIREN/HORN
KP	SECURITY SYSTEM KEY PAD LOCATION. REFER TO DETAILS FOR MORE INFORMATION.
CR	SECURITY SYSTEM CARD READER LOCATION. REFER TO DETAILS FOR MORE INFORMATION.
DC	SECURITY SYSTEM DOOR CONTACT LOCATION. REFER TO DETAILS FOR MORE INFORMATION.
DH	J-BOX FOR DOOR HOLD-OPEN DEVICE MOUNTED 72"AFF. EXTEND DEVICES TO 24 HOUR CIRCUIT ON 120V PANEL WITH LOCK-ON BREAKER. TIE INTO FIRE ALARM, RELEASE ON DETECTION.
	SECURITY CAMERA LOCATION. COORDINATE EXACT ROUGH-IN LOCATION WITH ARCHITECT & OWNER. VERIFY INSTALLATION AND MOUNTING REQUIREMENTS WITH CAMERA MANUFACTURER. PROVIDE (1) DATA DROP AT EACH CAMERA LOCATION.
FACP	FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION WITH LOCAL FIRE AUTHORITY.
FARA	FIRE ALARM REMOTE ANNUNCIATOR. COORDINATE EXACT LOCATION WITH LOCAL FIRE AUTHORITY.

* NOT ALL SYMBOLS MAY BE USED.

ELECTRICAL DISCONNECT SCHEDULE

Mark	Panel	Circuit Number	DISC	W. P.	WALL	ABV. CEILING	ROOF	Phase Created
ACCU-C101A	HA6	8,10,12	3P/60A	•			•	Phase 4
ACCU-C101B	HA6	13,15,17	3P/60A	•			•	Phase 4
ACCU-C102	HA6	7,9,11	3P/30A	•			•	Phase 4
AHU-C101A	HA6	2,4,6	3P/100A		•			Phase 4
AHU-C101B	HA6	20,22,24	3P/100A		•			Phase 4
AHU-C102	HA6	31,33,35	3P/60A		•			Phase 4
DACCU-A154	LA7	22,24	2P/30A	•			•	Phase 4
DACCU-C104	LA6	29,31	2P/30A	•			•	Phase 4
DAHU-A154	LA7	14,16	2P/30A		•			Phase 4
DAHU-C104	LA6	20,22	2P/30A		•			Phase 4
EF-A133	LA8B	28	1P/30A	•			•	Phase 4
EF-A137	LA7	10	1P/30A			•		Phase 4
EF-A140	LA7	18	1P/30A			•		Phase 4
EF-A144	LA7	20	1P/30A			•		Phase 4
EF-C100	LA6	16	1P/30A	•			•	Phase 4
EF-C110	LA6B	6	1P/30A			•		Phase 4
EF-C114	LA6	15	1P/30A		•			Phase 4
EF-K101A	HA7B	1,3,5	3P/30A	•			•	Phase 4
EF-K101B	HA7B	2,4,6	3P/30A	•			•	Phase 4
EF-K109	LA8B	22	1P/30A			•		Phase 4
EF-K110	LA8	21	1P/30A	•			•	Phase 4
EF-K111	LA8B	5	1P/30A	•			•	Phase 4
MUA-K101	HA7	31,33,35	3P/200A	•			•	Phase 4
RTU-A138	HA5	19,21,23	3P/45A	•			•	Phase 4
RTU-A142	HA5	7,9,11	3P/30A	•			•	Phase 4
RTU-A151	HA5	13,15,17	3P/45A	•			•	Phase 4
RTU-C100	HA6	14,16,18	3P/60A	•			•	Phase 4
RTU-K100	HA7	19,21,23	3P/45A	•			•	Phase 4
RTU-K101	HA7	7,9,11	3P/60A	•			•	Phase 4
UH-K108	HA7	1,3,5	3P/30A		•			Phase 4
UH-K109	HA7	13,15,17	3P/30A		•			Phase 4

ELECTRICAL SYMBOL LEGEND

SYMBOL*	DESCRIPTION
E1	REFER TO 'ELECTRICAL NOTES BY SYMBOL'
1 / E201	REFER TO DETAIL/VIEW '1' ON SHEET 'E201'
	CONNECT TO EXISTING
1-P1 / 1,3	HOMERUN TO PANELBOARD '1-P1' CIRCUITS 1 & 3
	RECEPTACLE, DUPLEX @ +18"AFF OR AS INDICATED
	RECEPTACLE, QUAD @ +18"AFF OR AS INDICATED
	RECEPTACLE, SPECIAL EQUIPMENT
	RECEPTACLE, SIMPLEX @ +18"AFF OR AS INDICATED
	RECEPTACLE, FLOOR MOUNTED
TV	DEVICE CLUSTER, FLAT SCREEN
	DEVICE CLUSTER, MEDIA CENTER AND TEACHER DESK
J	JUNCTION BOX, REFER TO DRAWINGS FOR MORE INFORMATION.
C	JUNCTION BOX, 4" X 4" MINIMUM, WITH SINGLE GANG PLASTER RING & 3/4" CONDUIT TURNED HORIZONTAL TO ABOVE CEILING WITH PULL TAPE, FOR DATA BY OTHERS. REFER TO TELECOM DRAWINGS FOR MORE INFORMATION.
T	THERMOSTAT PROVIDE JUNCTION BOX 4"x4" MINIMUM WITH SINGLE GANG PLASTER RING AND 3/4" CONDUIT TURNED HORIZONTAL TO ABOVE ACCESSIBLE CEILING WITH PULL TAPE. REFER TO MECHANICAL PLANS FOR ROUGH-IN LOCATION. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
S	SENSOR PROVIDE JUNCTION BOX 4"x4" MINIMUM WITH SINGLE GANG PLASTER RING AND 3/4" CONDUIT TURNED HORIZONTAL TO ABOVE ACCESSIBLE CEILING WITH PULL TAPE. REFER TO MECHANICAL PLANS FOR ROUGH-IN LOCATION. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
H	HUMIDISTAT PROVIDE JUNCTION BOX 4"x4" MINIMUM WITH SINGLE GANG PLASTER RING AND 3/4" CONDUIT TURNED HORIZONTAL TO ABOVE ACCESSIBLE CEILING WITH PULL TAPE. REFER TO MECHANICAL PLANS FOR ROUGH-IN LOCATION. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
D	DUCT DETECTOR WITH FAN SHUTDOWN
	EXHAUST FAN, CEILING MOUNTED
	EXHAUST FAN, INLINE / ABOVE CEILING
	EXHAUST FAN, ROOFTOP
	HORIZONTAL WATER SOURCE HEAT PUMP (WSHP)
	VERTICAL WATER SOURCE HEAT PUMP (WSHP)

* NOT ALL SYMBOLS MAY BE USED.

LIGHTING CONTROLS SYMBOL LEGEND

SYMBOL*	DESCRIPTION
$	SINGLE POLE SWITCH
X $	SWITCH - 'X' INDICATES TYPE: 3 3-WAY 4 4-WAY D DIMMER T TIMER K KEY-LOCKED MC MOMENTARY CONTACT OC OCCUPANCY SENSOR G GAS SHUT-OFF P PILOT-LIGHTED EPO EMERGENCY POWER OFF
a $	SWITCHING CIRCUIT 'a', 'b', etc. REFER TO LIGHTING FIXTURES ON PLANS.
	OCCUPANCY SENSOR, CEILING MOUNTED
	VACANCY SENSOR, CEILING MOUNTED
	OCCUPANCY SENSOR, WALL MOUNTED
	DAYLIGHT SENSOR, CEILING MOUNTED
M	MOTION SENSOR, CEILING OR DECK MOUNTED
P	PHOTOCELL SENSOR, CEILING OR DECK MOUNTED

* NOTES:
1. NOT ALL SYMBOLS MAY BE USED.
2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND LOCATION.
3. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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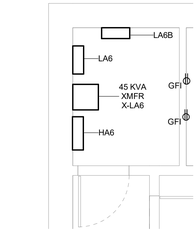
CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 683
SCHOOL CODE: 0319
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

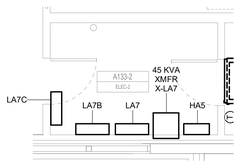
ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES

NO.	REVISION / SUBMISSIONS	DATE

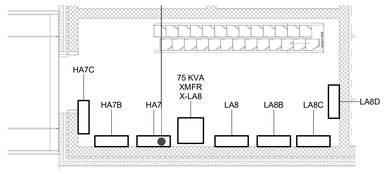
SHEET:
E903



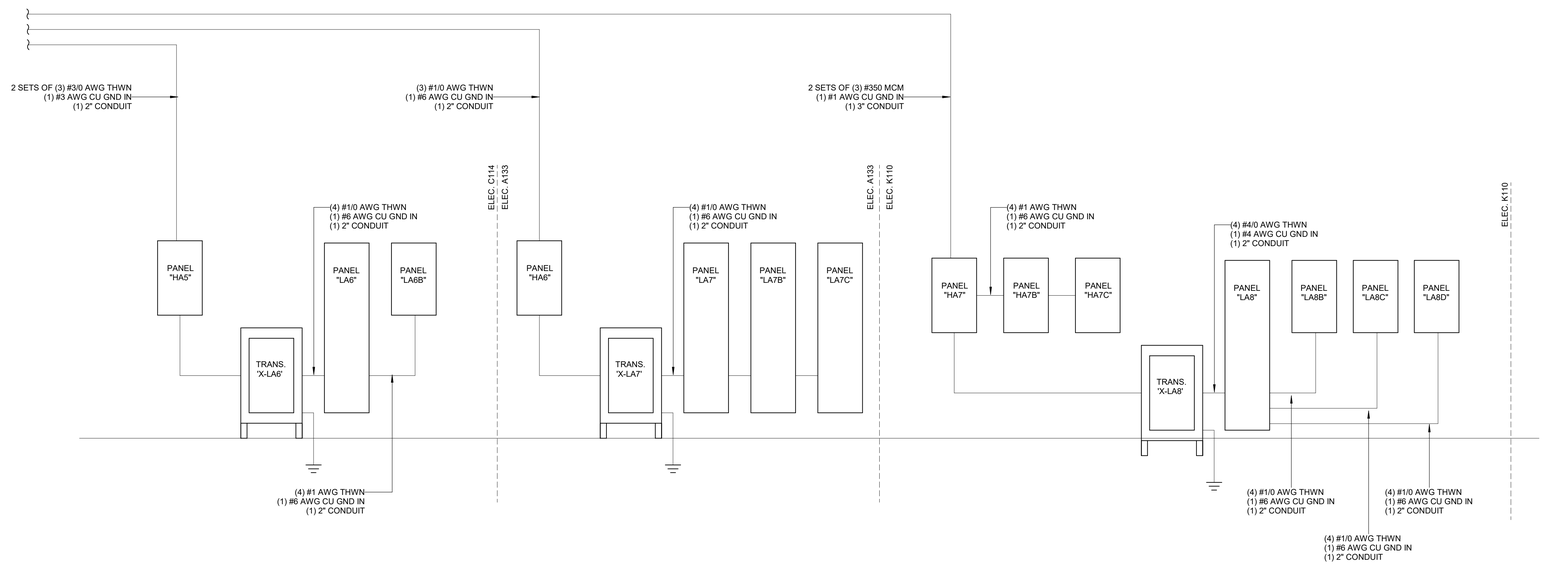
2 ENLARGED POWER PLAN - NEW GYMNASIUM - ELEC RM
E904 1/4" = 1'-0"

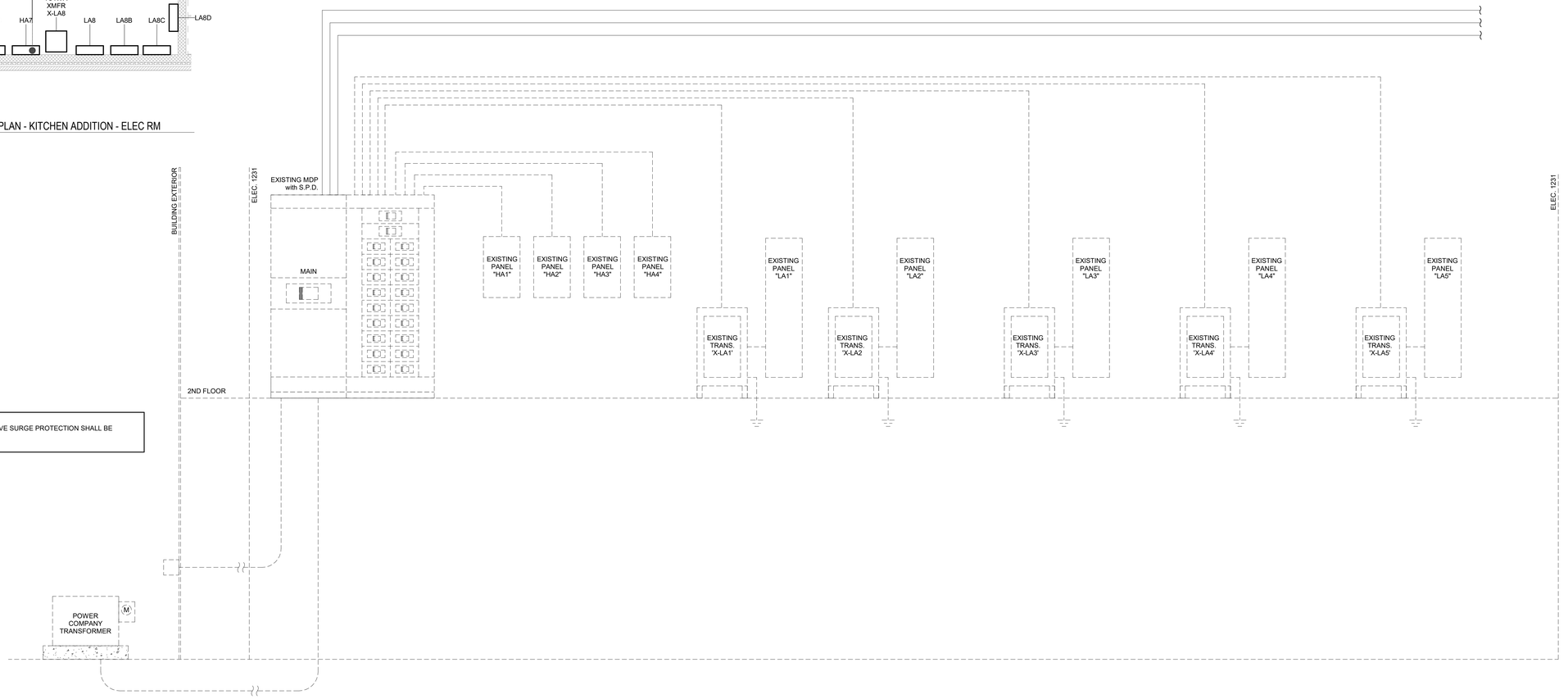


3 ENLARGED POWER PLAN - ADMINISTRATION ADDITION - ELEC RM
E904 1/4" = 1'-0"



4 ENLARGED POWER PLAN - KITCHEN ADDITION - ELEC RM
E904 1/4" = 1'-0"





IMPORTANT NOTES:
1. ALL PANELBOARDS AFTER TRANSFORMERS TO HAVE SURGE PROTECTION SHALL BE ELECTRONIC GRADE.
2. NO SERIES RATINGS ALLOWED.

1 MAIN ELECTRICAL RISER DIAGRAM - PANELBOARDS - PHASE 4
SCALE: N.T.S.

9/26/2022 4:48:10 PM BIM 360://2035 St. Simons elem modernization demo and new construction/21-060_St. Simons ES_MEPv2021.rvt

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ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 660
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

ELECTRICAL RISER DIAGRAMS

NO.	REVISIONS	REVISION / SUBMISSIONS	DATE
3			08/02/21

SHEET:
E904

Switchboa... EXISTING MSB

100% FULLY RATED BREAKER

Location: MECH-ELEC 1231 **Volts:** 480/277 Wye **A.I.C. Rating:** 100,000
Supply From: **Phases:** 3 **Mains Rating:** 4000 A
Mounting: FLOOR **Wires:** 4 **Mains Type:** SHUNT TRIP MCB
Enclosure: NEMA 1

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	EXISTING HA1	3	600 A	286500 VA	
2	EXISTING HA2	3	400 A	258000 VA	
3	EXISTING HA3	3	400 A	178000 VA	
4	EXISTING HA4	3	125 A	21079 VA	
5	EXISTING 45 KVA XMFR X-LA1	3	70 A	57100 VA	
6	EXISTING 45 KVA XMFR X-LA2	3	70 A	65000 VA	
7	EXISTING 45 KVA XMFR X-LA3	3	70 A	38930 VA	
8	EXISTING 45 KVA XMFR X-LA4	3	70 A	31536 VA	
9	EXISTING 45 KVA XMFR X-LA5	3	70 A	35200 VA	
10	EXISTING ELEVATOR WITH SHUNT TRIP...	3	65 A	24000 VA	
11	SPARE	3	400 A	0 VA	
12	HA5	3	100 A	77910 VA	
13	HA6	3	400 A	259078 VA	
14	HA7	3	600 A	330714 VA	
				1606268 VA	
				1932 A	

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
LIGHTS	35458 VA	125.00%	44323 VA		
RECEPTS.	186440 VA	52.68%	98220 VA	Total Conn. Load:	1606268 VA
EXHAUST FAN	4633 VA	100.00%	4633 VA	Total Est. Demand:	1608156 VA
WATER HEATER	50000 VA	125.00%	62500 VA	Total Conn. Current:	1932 A
A/C EQUIPMENT	903679 VA	100.00%	903679 VA	Total Est. Demand...	1934 A
Motor	100600 VA	125.00%	125750 VA		
KITCEN EQUIP.	16000 VA	65.00%	10400 VA		
ELEC. HEATING EQUIP.	54000 VA	125.00%	67500 VA		
Spare	0 VA	0.00%	0 VA		

Panel: HA5

Location: ELEC-2 A133-2 **Volts:** 480/277 Wye **A.I.C. Rating:** 35,000
Supply From: EXISTING MSB **Phas...** 3 **Mains Rating:** 400 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1					10613			0			1	20	--	SPARE	2	
	3	30 KVA XMFR X-LA6	4	50	3		9388			0		1	20	--	SPARE	4	
	5							9451			0	1	20	--	SPARE	6	
	7					1500			0			1	20	--	SPARE	8	
4,5	9	RTU-A146	10	25	3		1500			0		1	20	--	SPARE	10	
	11							1500			0	1	20	--	SPARE	12	
	13					7167			0			1	20	--	SPARE	14	
4,5	15	RTU-A147	8	35	3		7167			0		1	20	--	SPARE	16	
	17							7167			0	1	20	--	SPARE	18	
	19					7167			0			1	20	--	SPARE	20	
4,5	21	RTU-A152	6	45	3		7167			0		1	20	--	SPARE	22	
	23							7167			0	1	20	--	SPARE	24	
	25	LIGHTS Room A140, A144,...	12	20	1	1679			0			1	20	--	SPARE	26	
	27	LIGHTS	12	20	1		372			0		1	20	--	SPARE	28	
	29	LIGHTS	12	20	1			270			0	1	20	--	SPARE	30	
	31	LIGHTS -GYM MEZZANINE	12	20	1	593			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				27936 W	25012 W	24978 W									
		Total Amps:				101 A	90 A	90 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 77910 VA
Total Est. Demand: 78642 VA
Total Conn.: 94 A
Total Est. Demand: 95 A

Panel: HA7

Location: MECH / ELEC K113 **Volts:** 480/277 Wye **A.I.C. Rating:** 35,000
Supply From: EXISTING MSB **Phas...** 3 **Mains Rating:** 600 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1					1000			0			1	20	--	SPARE	2	
4,5	3	UH-K108	10	30	3		1000			0		1	20	--	SPARE	4	
	5							1000			0	1	20	--	SPARE	6	
	7					16667			0			1	20	--	SPARE	8	
4,5	9	RTU-K101	4	60	3		16667			0		1	20	--	SPARE	10	
	11							16667			0	1	20	--	SPARE	12	
	13					1000			0			1	20	--	SPARE	14	
4,5	15	UH-K109	12	20	3		1000			0		1	20	--	SPARE	16	
	17							1000			0	1	20	--	SPARE	18	
	19					7167			0			1	20	--	SPARE	20	
4,5	21	RTU-K100	10	30	3		7167			0		1	20	--	SPARE	22	
	23							7167			0	1	20	--	SPARE	24	
	25	LIGHTING	12	20	1	372			0			1	20	--	SPARE	26	
	27	LIGHTS Room C113-1	12	20	1		900			0		1	20	--	SPARE	28	
	29	LIGHTS Room K107, K102-3,...	12	20	1			1133			0	1	20	--	SPARE	30	
	31					20000			0			1	20	--	SPARE	32	
4,5	33	MUA-K101	1	110	3		20000			0		1	20	--	SPARE	34	
	35							20000			0	1	20	--	SPARE	36	
	37					25333			42220							38	
	39	PANEL HA7B	1	100	3		25333			41798		3	125	1	75 KVA XMFR X-LA8	40	
	41							25333			41639					42	
		Total Load:				110142 W	110256 W	110316 W									
		Total Amps:				398 A	398 A	398 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 330714 VA
Total Est. Demand: 348758 VA
Total Conn.: 398 A
Total Est. Demand: 419 A

Panel: LA8B

Location: MECH / ELEC K113 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: LA8 **Phas...** 3 **Mains Rating:** 150 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	CAN OPENER - KITCHEN K101	12	20	1	200			800			2	15	12	REACH IN FREEZER - KITCHEN K101	2	
	3	RECEPTS. KITCHEN K101	12	20	1		400			800						4	
	5	EF-K111	12	20	1			50			200	2	20	12	COIL - COOLER K107	6	
	7	COIL - COOLER K107	12	20	2	200			200							8	
	9						200			200		1	20	12	RECEPTS. COOLER K107	10	
	11							3667			1200	1	20	12	Motor LAUNDRY K105	12	
	13	COOLER CONDENSER - COOLER K107	12	20	3	3667			1200			2	20	12	ELEC. HEATING EQUIP. LAUNDRY K105	14	
	15						3667			1200						16	
	17	RECEPTS. OFFICE-3 K102-3	12	20	1			800			400	1	20	12	RECEPTS. OFFICE-3 K102-3	18	
	19	ELEC. HEATING EQUIP. TOILE...	12	20	1	1200			200			1	20	12	RECEPTS. TOILET K103A	20	
	21	GEN. RECEPTS. SERVERY-2...	12	20	1		1200			85		1	20	12	EF-K109	22	
	23	SPARE	--	20	1			0			400	1	20	12	ROOF RECEPTS.	24	
	25					3333			400			1	20	12	RECEPTS. Room K112, K111	26	
	27	WATER HEATER MECH/ELEC K112	12	20	3		3333			50		1	20	12	EXHAUST FAN	28	
	29							3333			3333					30	
	31	CIRC PUMP MECH/ELEC K112	12	20	2	800			3333			3	20	12	WATER HEATER MECH/ELEC K112	32	
	33						800			3333						34	
	35	GEN RECEPTS.	12	20	1			800			800	2	15	12	REACH IN REFRIG - KITCHEN K101	36	
	37	ICE MAKER - KITCHEN K101	12	15	1	200			800							38	
	39	REACH IN REFRIG - KITCHEN K101	12	15	2		800			800		2	15	12	REACH IN REFRIG - KITCHEN K101	40	
	41							800			800					42	
		Total Load:				15718 W	16042 W	15766 W									
		Total Amps:				131 A	134 A	131 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 47525 VA
Total Est. Demand: 50657 VA
Total Conn.: 132 A
Total Est. Demand: 141 A

Panel: HA6

Location: ELEC C115 **Volts:** 480/277 Wye **A.I.C. Rating:** 35,000
Supply From: EXISTING MSB **Phas...** 3 **Mains Rating:** 400 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1					14828			19200							2	
	3	45 KVA XMFR X-LA7	4	70	3		13690			19200		3	20	12	AHU-C101A	4	4,5
	5							12774			19200					6	
	7					4233			2167							8	
4,5	9	ACCU-G102	10	25	3		4233			2167		3	50	6	ACCU-C101A	10	4,5
	11							4233			2167					12	
	13					2167			16667							14	
4,5	15	ACCU-C101B	6	50	3		2167			16667		3	25	10	RTU-G100	16	4,5
	17							2167			16667					18	
	19	LIGHTS	12	20	1	1560			19200							20	
	21	LIGHTS	12	20	1		780			19200		3	90	2	AHU-C101B	22	4,5
	23	LIGHTS	12	20	1			780			19200					24	
	25	LIGHTS	12	20	1	780			0			1	20	--	SPARE	26	
	27	LIGHTS	12	20	1		810			0		1	20	--	SPARE	28	
	29	LIGHTS Room C104-2	12	20	1			1099			0	1	20	--	SPARE	30	
	31					9667			0			1	20	--	SPARE	32	
4,5	33	AHU-G102	6	50	3		9667			0		1	20	--	SPARE	34	
	35							9667			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				87823 W	85941 W	85314 W									
		Total Amps:				317 A	311 A	308 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 259078 VA
Total Est. Demand: 299808 VA
Total Conn.: 312 A
Total Est. Demand: 361 A

Panel: LA7

PROVIDE 200% NEUTRAL

Location: ELEC-2 A133-2 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 45 KVA XMFR X-LA7 **Phas...** 3 **Mains Rating:** 225 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	RECEPTS. WORK COPIER	12	20	1	1200			1200			1	20	12	ELEC. HEATING EQUIP. AT A140	2	5
	3	RECEPTS. WORK-1 A134-1	12	20	1		800			200		1	20	12	Lighting AT A144	4	
	5	RECEPTS. CORRIDOR-2 A150-2	12	20	1			1000			600	1	20	12	RECEPTS. Room A150-2, A142	6	
	7	RECEPTS. DATA A154	12	20	1	400			400			1	20	12	RECEPTS. Room A144, A140	8	
	9	RECEPTS. DATA A154	12	20	1		400			20		1	20	12	EF-A137	10	2
	11	RECEPTS. A-PRINC A151	12	20	1			1000			400	1	20	12	ROOF RECEPTS.	12	
	13	RECEPTS. ELEC-2 A133-2	12	20	1	200			936			2	20	12	DAHU-A154	14	5
	15	RECEPTS. INSTR. COACH-2...	12	20	1		1000			936						16	
	17	RECEPTS. SECRETARY A147	12	20	1			1000			20	1	20	12	EF-A140	18	2
	19	RECEPTS. PSYCH. A146	12	20	1	1000			20			1	20	12	EF-A144	20	2
	21	RECEPTS. COUNSELOR A145	12	20	1		1000			750		2	20	12	DACCU-A154	22	5
	23	RECEPTS. SRO A143	12	20	1			1000			750					24	
	25	RECEPTS. PRINCIPAL A138	12	20	1	1000			400			1	20	12	CIRC PUMP - ROOF ACCESS A153	26	3
	27	RECEPTS. PARENT COOR-2...	12	20	1		1000			0		1	20	--	SPARE	28	
	29	RECEPTS. CONF ROOM A153	12	20	1			600			0	1	20	--	SPARE	30	
	31	RECEPTS. RECEP-SEC A141	12	20	1	1000			0			1	20	--	SPARE	32	
	33	RECEPTS. Room A137-2, A134-1	12	20	1		400			0		1	20	--	SPARE	34	
	35	SMOKE DAMPERS	12	20	1			200			0	1	20	--	SPARE	36	
	37					3333			0							38	
	39	WTR HEATER - ROOF A153	12	20	3		3333			0		3	100		PANEL LA7B	40	
	41							3333			0					42	
		Total Load:				10613 W	9388 W	9451 W									
		Total Amps:				89 A	78 A	79 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 29450 VA
Total Est. Demand: 29115 VA
Total Conn.: 82 A
Total Est. Demand: 81 A

Panel: HA7B

Location: MECH / ELEC K113 **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: HA7 **Phas...** 3 **Mains Rating:** 400 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1					500			500							2	
	3	EF-K101A	12	20	3		500			500		3	20	12	EF-K101B	4	
	5							500			500					6	
	7					8333			8000							8	
4	9	CONV OVEN - KITCHEN K101	4	60	3		8333			8000		3	30	10	COMBI OVEN - KITCHEN K101	10	4
	11							8333			8000					12	
--	13	SHUNT TRIP	--	--	1	--			--			1	--	--	SHUNT TRIP	14	--
	15						8000			0		1	20	--	SPARE	16	
4	17	DBL OVEN KITCHEN K101	8	40	3			8000			0	1	20	--	SPARE	18	
	19					8000			0			1	20	--	SPARE	20	
--	21	SHUNT TRIP	--	--	1		--			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0							38	
	39	SPARE	--	20	1		0			0		3	100		PANEL HA7C	40	
	41	SPARE	--	20	1			0			0					42	
		Total Load:				25333 W	25333 W	25333 W									
		Total Amps:				91 A	91 A	91 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 76000 VA
Total Est. Demand: 94250 VA
Total Conn.: 91 A
Total Est. Demand: 113 A

Panel: LA8C

Location: MECH / ELEC K113 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: LA8 **Phas...** 3 **Mains Rating:** 150 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	SONIC STEAMER - KITCHEN K101	10	30	2	800			200			1	20	12	POWER CORD REEL - KITCHEN K101	2	
	3						800			0		1	20	--	SPARE	4	
--	5	SHUNT TRIP	--	--	1			--			0	1	20	--	SPARE	6	
	7					3667			0			1	20	--	SPARE	8	
	9	FREEZER CONDENSER - FREEZER K107A	12	20	3		3667			0		1	20	--	SPARE	10	
	11							3667			0	1	20	--	SPARE	12	
	13					2013			0			1	20	--	SPARE	14	
	15	PANEL LP1	4	60	3		2013			0		1	20	--	SPARE	16	
	17							2013			0	1	20	--	SPARE	18	
	19					2013			0			1	20	--	SPARE	20	
	21	PANEL LP2	4	60	3		2013			0		1	20	--	SPARE	22	
	23							2013			0	1	20	--	SPARE	24	
	25					637			0			1	20	--	SPARE	26	
	27	DISPOSER KITCHEN K101	12	20	3		637			0		1	20	--	SPARE	28	
	29							637			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0							38	
	39	SPARE	--	20	1		0			0		3	20		LA8D	40	
	41	SPARE	--	20	1			0			0					42	
		Total Load:				9329 W	9129 W	8329 W									
		Total Amps:				79 A	77 A	69 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 26788 VA
Total Est. Demand: 25560 VA
Total Conn.: 74 A
Total Est. Demand: 71 A

Panel: LA6

PROVIDE 200% NEUTRAL

Location: ELEC C115 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 45 KVA XMFR X-LA6 **Phas...** 3 **Mains Rating:** 150 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	Motor PE-GYM C101	12	20	1	1200										2	
	3									1200		1	20	12	Motor PE-GYM C101	4	
	5															6	
	7	RECEPTS.	12	20	1	800			1200			1	20	12	ELEC. HEATING EQUIP. AT C107	8	4
4	9	ELEC. HEATING EQUIP. AT C109	12	20	1		1200			1200		1	20	12	ELEC. HEATING EQUIP. AT C108	10	4
4	11	ELEC. HEATING EQUIP. AT C106	12	20	1			1200			1200	1	20	12	ELEC. HEATING EQUIP. AT C110	12	4
4	13	ELEC. HEATING EQUIP. AT C111	12	20	1	1200			400			1	20	12	RECEPTS. T 209	14	
	15	EF-C114	12	20	1		55			75		1	20		EF-C100	16	
	17	RECEPTS. Room C107, C109	12	20	1			800			600	1	20	12	RECEPTS. OFFICE C105	18	
	19	RECEPTS. DATA-2 C104-2	12	20	1	360			936			2	20	12	DAHU-G104	20	4,5
	21	RECEPTS. DATA-2 C104-2	12	20	1		800			936						22	
	23	RECEPTS. Room C119	12	20	1			1400			0	1	20	--	SPARE	24	
	25	RECEPTS. Room C110, C111	12	20	1	400			0			1	20	--	SPARE	26	
	27	RECEPTS. DATA-2 C104-2	12	20	1		360			0		1	20	--	SPARE	28	
4,5	29	DACCU-G104	10	25	2			750			0	1	20	--	SPARE	30	
	31					750			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			7711							38	
	39	SPARE	--	20	1		0			7972		3	100	1	PANEL 'LA7B'	40	
	41	SPARE	--	20	1			0			6960					42	
		Total Load:				14828 W	13690 W	12774 W									
		Total Amps:				125 A	115 A	106 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 41290 VA
Total Est. Demand: 44870 VA
Total Conn.: 115 A
Total Est. Demand: 125 A

Panel: LA7B

PROVIDE 200% NEUTRAL

Location: ELEC-2 A133-2 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: LA7 **Phas...** 3 **Mains Rating:** 225 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1					0										2	
	3	Panel LA7C		20	3		0									4	
	5							0								6	
	7															8	
	9															10	
	11															12	
	13															14	
	15															16	
	17															18	
	19															20	
	21															22	
	23															24	
	25															26	
	27															28	
	29															30	
	31															32	
	33															34	
	35															36	
	37															38	
	39															40	
	41															42	
		Total Load:				0 W	0 W	0 W									
		Total Amps:				0 A	0 A	0 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 0 VA
Total Est. Demand: 0 VA
Total Conn.: 0 A
Total Est. Demand: 0 A

Panel: HA7C

PROVIDE 200% NEUTRAL

Location: MECH / ELEC K113 **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: HA7B **Phas...** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1															2	
	3															4	
	5															6	
	7															8	
	9															10	
	11															12	
	13															14	
	15															16	
	17															18	
	19															20	
	21															22	
	23															24	
	25															26	
	27															28	
	29															30	
	31															32	
	33															34	
	35															36	
	37															38	
	39															40	
	41															42	
		Total Load:				0 W	0 W	0 W									
		Total Amps:				0 A	0 A	0 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 0 VA
Total Est. Demand: 0 VA
Total Conn.: 0 A
Total Est. Demand: 0 A

Panel: LA8D

PROVIDE 200% NEUTRAL

Location: MECH / ELEC K113 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: LA8C **Phas...** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1															2	
	3															4	
	5															6	
	7															8	
	9															10	
	11															12	
	13															14	
	15															16	
	17															18	
	19															20	
	21															22	
	23															24	
	25															26	
	27															28	
	29															30	
	31															32	
	33															34	
	35															36	
	37															38	
	39															40	
	41															42	
		Total Load:				0 W	0 W	0 W									
		Total Amps:				0 A	0 A	0 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 0 VA
Total Est. Demand: 0 VA
Total Conn.: 0 A
Total Est. Demand: 0 A

Panel: LA6B

PROVIDE 200% NEUTRAL

Location: ELEC C115 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: LA6 **Phas...** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains Type:** MCB

12

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
4	1	MOTORIZED SHADES	12	20	1	1400			400			1	20	12	RECEPTS. - LOBBY	2	
	3	MOTORIZED SHADES		20	1		1000			600		1	20	12	RECEPTS. Room C115	4	
	5	STAGE RECEPT GYM C113		20	1			180			20	1	20	12	EXHAUST FAN	6	
	7	STAGE RECEPT GYM C113		20	1	180			400			1	20		RECEPTS. - GYM MEZZANINE	8	
	9	RECEPTS. - GYM MEZZANINE		20	1		200									10	
4	11	MOTORIZED SHADES	12	20	1			1400			0	1	20	--	SPARE	12	
	13	RECEPTS. STOR-1 C113-1	12	20	1	400			0			1	20	--	SPARE	14	
	15	RECEPTS. STOR-1 C113-1	12	20	1		200			0		1	20	--	SPARE	16	
	17	RECEPTS. GYMNASIUM C101	12	20	1			200			0	1	20	--	SPARE	18	
	19	RECEPTS. GYMNASIUM C101	12	20	1	200			0			1	20	--	SPARE	20	
	21	LIGHTS GYMNASIUM C101	12	20	1		1250			0		1	20	--	SPARE	22	
	23	LIGHTS GYMNASIUM C101	12	20	1			1000			0	1	20	--	SPARE	24	
	25	LIGHTS GYMNASIUM C101	12	20	1	1000			0			1	20	--	SPARE	26	
	27	RECEPTS. GYMNASIUM C101	12	20	1		800			0		1	20	--	SPARE	28	
	29	RECEPTS. GYMNASIUM C101	12	20	1			200			0	1	20	--	SPARE	30	
	31	RECEPTS.	12	20	1	200			0			1	20	--	SPARE	32	
	33	RECEPTS.	12	20	1		600			0		1	20	--	SPARE	34	
	35	RECEPTS.	12	20	1			600			0	1	20	--	SPARE	36	
	37	ROOF RECEPTS.	12	20	1	600			3333							38	
2	39	CIRC PUMP - JAN C110	12	20	1		400			3333		3	20	12	WATER HEATER JAN C119	40	
	41	RECEPTS. - LOBBY	12	20	1			400			3333					42	
		Total Load:				7711 W	7972 W	6960 W									
		Total Amps:				65 A	67 A	58 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 22640 VA
Total Est. Demand: 25759 VA
Total Conn.: 63 A
Total Est. Demand: 71 A

Panel: LA7C

PROVIDE 200% NEUTRAL

Location: ELEC-2 A133-2 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: LA7B **Phas...** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1															2	
	3															4	
	5															6	
	7															8	
	9															10	
	11															12	
	13															14	
	15															16	
	17															18	
	19															20	
	21															22	
	23															24	
	25															26	
	27															28	
	29															30	
	31															32	
	33															34	
	35															36	
	37															38	
	39															40	
	41															42	
		Total Load:				0 W	0 W	0 W									
		Total Amps:				0 A	0 A	0 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 0 VA
Total Est. Demand: 0 VA
Total Conn.: 0 A
Total Est. Demand: 0 A

Panel: LA8

Location: MECH / ELEC K113 **Volts:** 120/208 Wye **A.I.C. Rating:** 22,000
Supply From: 75 KVA XMFR X-LA8 **Phas...** 3 **Mains Rating:** 400 A
Mounting: Surface **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	LIGHTS - WALL PACKS	12	20	1	34			800			2	30	10	SONIC STEAMER - KITCHEN K101	2	
	3	REACH IN REFRIG - KITCHEN K101	12	15	2		800			800						4	
	5							800			--	1	--	--	SHUNT TRIP	6	--
	7	PASS THRU REFRIGERATOR - KITCHEN K101	12	15	2	800			3667							8	
	9						800			3667		3	60	4	DISHWASHER - KITCHEN K101	10	
	11	RECEPTS. KITCHEN K101	12	20	1			200			3667					12	
	13	RECEPTS. CAN WASH K109	12	20	2	200			3667							14	
	15						200			3667		3	60	4	FOOD PROCESSOR - KITCHEN K101	16	
	17	PASS THRU REFRIGERATOR - KITCHEN K101	12	15	2			800			3667					18	
	19					800			3667							20	
	21	EF-K110	12	20	1		75			3667		3	50	6	TILTING SKILLET	22	
	23	FAN COIL FREEZER K107A	12	20	2			200			3667					24	
	25					200			--			1	--	--	SHUNT TRIP	26	--
	27	FAN COIL FREEZER K107A	12	20	2		200			3667						28	
	29							200			3667	3	50	6	TILTING SKILLET	30	
	31	FREEZER K107A	12	20	1	200			3667							32	
	33	FREEZER K107A	12	20	1		200			--		1	--	--	SHUNT TRIP	34	--
	35							9329			0	1	20	--	SPARE	36	
	37	PANEL LA8C	1	100	3	9129			15718							38	
	39						8329			16042		3	100	1	PANEL LA8B	40	
	41	SPARE	--	20	1			0			15766					42	
		Total Load:				42220 W	41798 W	41639 W									
		Total Amps:				352 A	349 A	347 A									

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 125656 VA
Total Est. Demand: 124926 VA
Total Conn.: 349 A
Total Est. Demand: 347 A

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 23205 D. J. PENN

JOHN A. TUTEN & ASSOCIATES ARCHITECTS
4680 U.S. HIGHWAY 17 NORTH
BRUNSWICK, GEORGIA 31525
www.johntuten.com

ST. SIMONS ELEMENTARY NEW CONSTRUCTION
805 Ocean Blvd. St. Simons Island, GA 31522
GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
SCHOOL CODE: 0310
FTE: 693

ISSUED FOR:
DATE: 09/26/2022
PROJECT NUMBER: 2035

ELECTRICAL PANEL SCHEDULES

NO.	REVISION / SUBMISSIONS	DATE
12	REVISIONS	09/09/22

DP CE
1301 Solana Blvd.
Bldg. 1, Suite 1420
Westlake, TX 76262
817-410-2858
WWW.DONPENN.COM

SHEET: E905

GENERAL NOTES

1	ALL LINE VOLTAGE ELECTRICITY SHALL BE PROVIDED AND INSTALLED BY E.C.
2	ALL VOICE SERVICES, DATA SERVICES, COMPUTER NETWORKING SERVICES AND CABLING FOR SAID SERVICES SHALL BE PROVIDED BY OTHERS.
3	ALL FREE AIR CABLING SHALL BE PLENUM RATED.
4	ALL DEVICE PLATES MOUNTED IN INTERIOR WALL SHALL HAVE A NATURAL ALUMINUM FINISH, U.N.O.
5	ALL DEVICE PLATES MOUNTED INSIDE FLOOR BOXES SHALL HAVE A NATURAL ALUMINUM FINISH, U.N.O.
6	ALL DEVICE PLATES SHALL BE STANDARD SIZE U.N.O.

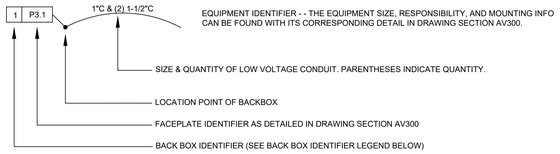
SYMBOL LEGEND

XXXXXX	EQUIPMENT IDENTIFIER
1"C & (2) 1-1/2"C	EMPTY LOW VOLTAGE CONDUIT WITH PULL STRING. E.C. TO PROVIDE SIZE & QUANTITY INDICATED. CONDUIT TO BE (1) 1"C IF NO NOTATION GIVEN. LINE DOES NOT IMPLY HOW CONDUIT IS TO BE ROUTED. ROUTE CONDUIT AS REQUIRED IN FIELD.
IG	E.C. SUPPLIED CIRCUIT(S). ARROWS DENOTE QUANTITY OF CIRCUITS. CROSSMARKS INDICATE QUANTITY OF CONDUCTORS PER CIRCUIT. ALL CONDUCTORS TO BE 20A 120VAC CONDUCTORS UNLESS NOTED OTHERWISE. ALL RUNS TO INCLUDE GROUNDING CONDUCTOR WHICH IS NOT INCLUDED IN THE CROSSMARKS. RUNS DEVOID OF CROSSMARKS ARE TO CONTAIN (2) 20A 120VAC CONDUCTORS & (1) GROUNDING CONDUCTOR UNLESS NOTED OTHERWISE. "IG" INDICATES ISOLATED GROUNDING CONDUCTOR.
PB	PULL BOX SUPPLIED BY E.C. SIZE AS REQUIRED. LOCATE BOX IN ACCESSIBLE AREA.
	CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING IN ROOM WHERE SYMBOL IS SHOWN, UNO
	WALL-MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT
	CEILING MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT
	20A/120VAC DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT MOUNTED IN FLOOR BOX
IG	WALL-MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND ON DEDICATED 20A CIRCUIT
IG	CEILING MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND ON DEDICATED 20A CIRCUIT
IG	20A/120VAC DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND MOUNTED IN FLOOR BOX ON DEDICATED 20A CIRCUIT
	RADIO FREQUENCY TRANSMISSION SYSTEM
XX	SHEET KEYNOTE IDENTIFIER. SEE SHEET KEYNOTE WITH CORRESPONDING NUMBER "XX". NOTES CAN BE FOUND IN THE SHEET KEYNOTES TABLE ON PAGE WHERE IDENTIFIER APPEARS.
x#	WALL MOUNTED DATA DROP BY OTHERS. QUANTITY SHOWN AS NEEDED.
x#	DATA DROP MOUNTED IN FLOOR BOX BY OTHERS. QUANTITY SHOWN AS NEEDED

ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AV	AUDIO VISUAL
BLW CLG	BELOW CEILING
BOS	BOTTOM OF STEEL
CKT	CIRCUIT
EC	ELECTRICAL CONTRACTOR
IR	INFRARED
MC	METAL-CLAD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PROSC	PROSCENIUM
PSC	PRESENTATION SYSTEMS CONTRACTOR
RCP	REFLECTED CEILING PLAN
SL	STAGE LEFT
SR	STAGE RIGHT
UNO	UNLESS NOTED OTHERWISE
VAC	VOLTS-ALTERNATING CURRENT

CONVENTIONS



EQUIPMENT IDENTIFIER LEGEND

1	SINGLE GANG BACK BOX - MINIMUM DEPTH 3"
2	TWO GANG BACK BOX - MINIMUM DEPTH 3"
3	THREE GANG BACK BOX - MINIMUM DEPTH 3"
4	FOUR GANG BACK BOX - MINIMUM DEPTH 3"
5	CUSTOM BACK BOX - SEE DETAIL
6	HOFFMAN 8" X 8" X 4" SCREW COVER PULL BOX
7	FLOOR BOX
8	AUDIO LOUDSPEAKER
9	PTZ / STATIC VIDEO CAMERA
10	PROJECTION SCREEN
11	FLAT PANEL DISPLAY
12	VIDEO / DATA PROJECTOR
13	AV EQUIPMENT RACK / LECTERN

Sheet List Table

MCKNIGHT CONSTRUCTION
ST. SIMON'S ELEMENTARY AV SYSTEMS
ST. SIMON'S ISLAND, GA
PROJECT #2359

LEGEND

6 SOUTHERN OAKS DR.
SAVANNAH, GA. 31405
PH. 912-236-1345
FAX 912-233-5350
www.sfps.net

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9/15/22	FOR CONSTRUCTION

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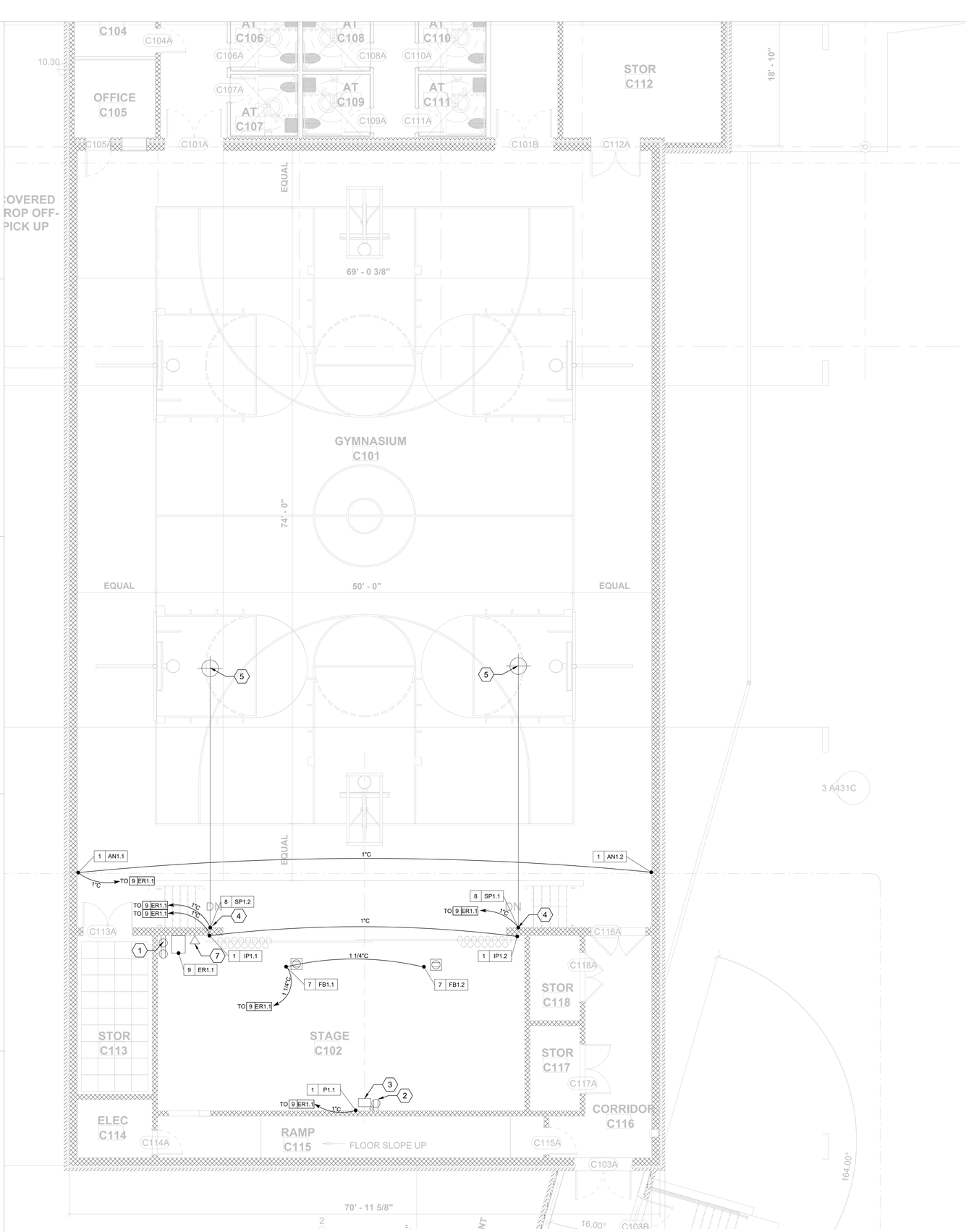
ST. SIMON'S ELEMENTARY AV SYSTEMS
ST. SIMON'S ISLAND, GA
MCKNIGHT CONSTRUCTION

DESIGNED BY
AD
DRAWN BY
TA
CHECKED BY
ATL
PROJECT NUMBER
2359
DATE
9/15/22
TITLE
LEGEND

DRAWING NO.
AV001



1 AV101 AV FLOOR PLAN
SCALE: 3/16"=1'-0"

SHEET KEY NOTES

1.	(QTY. OF 2) 20A 120VAC CIRCUIT ON DUPLEX RECEPTACLE MOUNTED FLUSH IN WALL, 28" A.F.F. BY E.C.
3.	(QTY. OF 1) 20A 120VAC CIRCUIT ON DUPLEX RECEPTACLE WITH ISOLATED GROUND MOUNTED FLUSH IN WALL AT 147" BY E.C.
4.	PROJECTOR MOUNTED ON BACK WALL AT 147" A.F.F.
5	JBL CBT SPEAKERS MOUNTED ON WALL AT APPROX. 14' 8"
6.	SPEAKER AIMING POINT.
7.	DATA DROP MOUNTED ON WALL 18" A.F.F. QUANTITY TO BE DETERMINED.

AV FLOOR PLAN

STAGE FRONT
a better plan for AV

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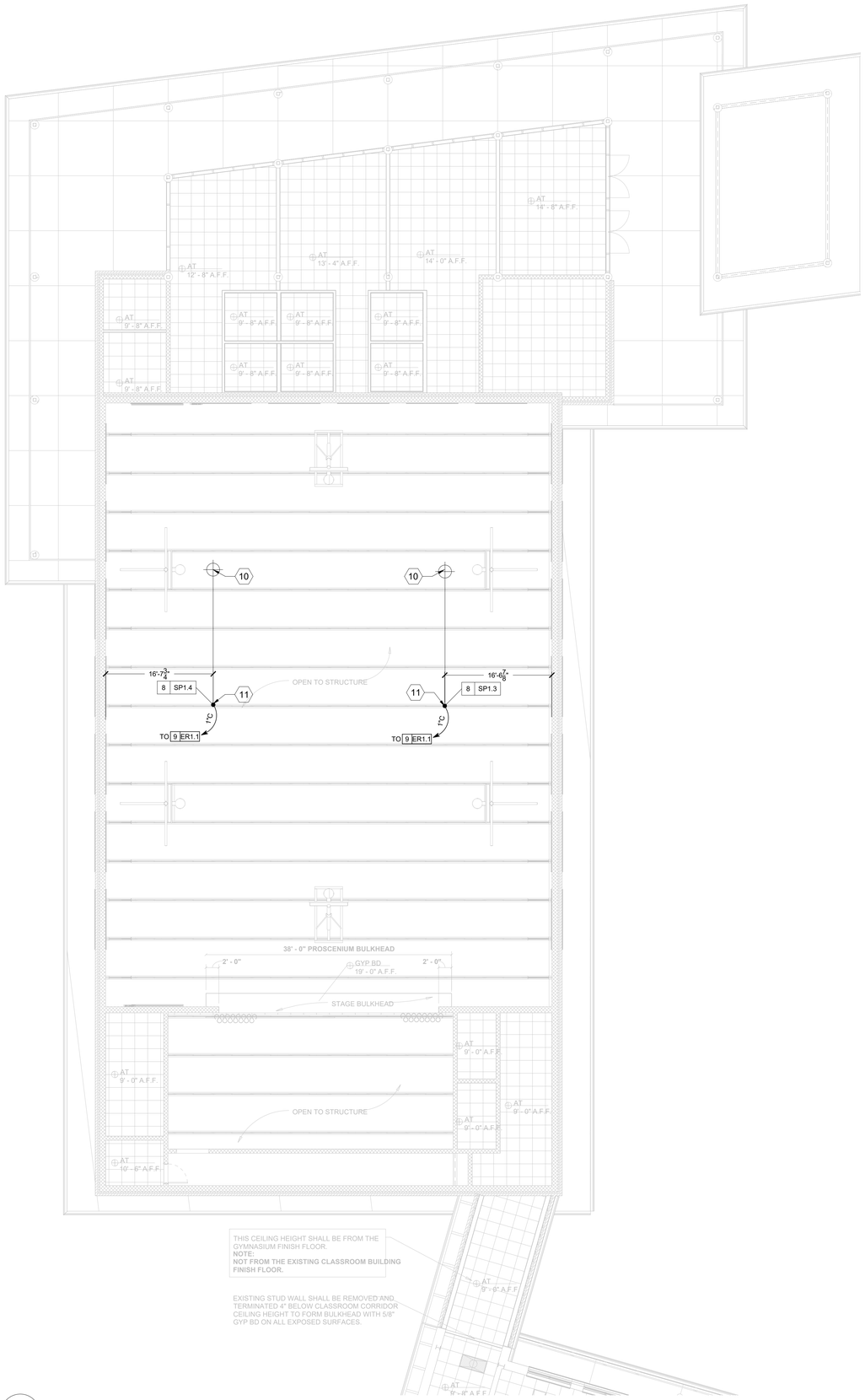
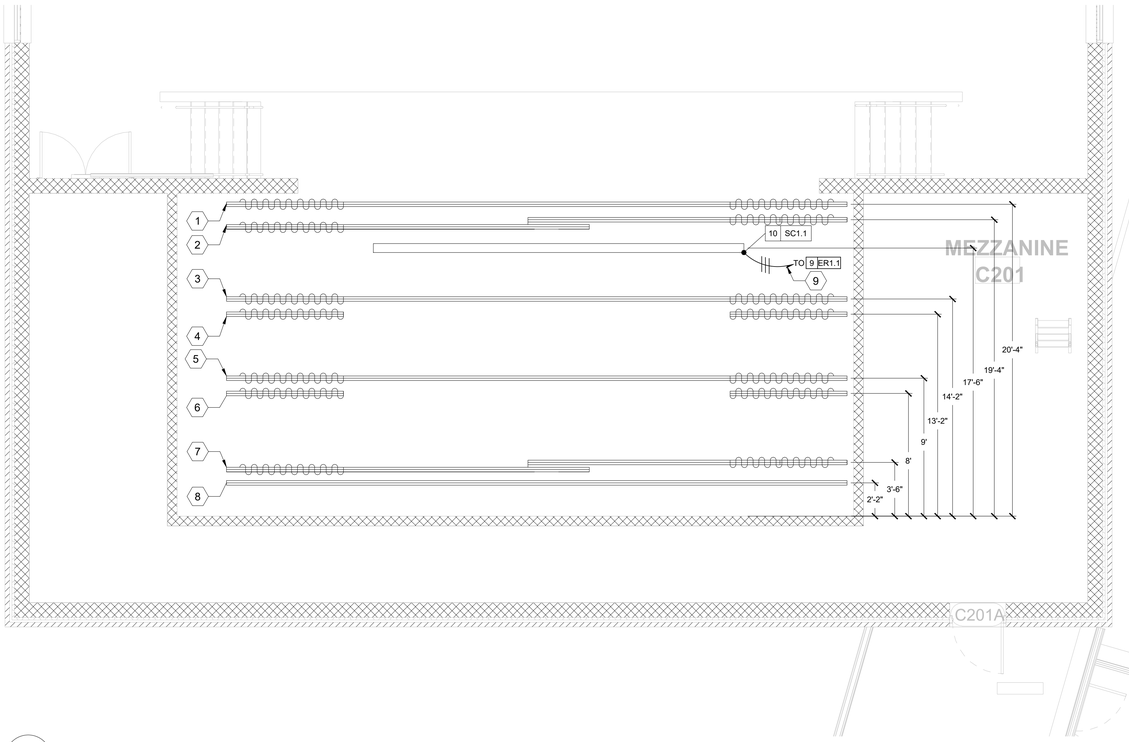
ST. SIMON'S ELEMENTARY AV SYSTEMS
ST. SIMON'S ISLAND, GA
MCKNIGHT CONSTRUCTION

DESIGNED BY
AD
DRAWN BY
TA
CHECKED BY
ATL
PROJECT NUMBER
2359
DATE
9/15/22
TITLE
AV FLOOR PLAN

DRAWING NO.
AV101



1 AV201 AV REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"



2 AV201 STAGE RCP ENGLARGED
SCALE: 1/4"=1'-0"

SHEET KEY NOTES

1.	GRAND VALENCE - 5' X 41' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
2.	GRAND DRAPE - 17' X 21' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
3.	1ST BORDER CURTAIN - 5' X 41' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
4.	1ST MASKING CURTAIN - 17' X 8' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
5.	2ND BORDER CURTAIN - 5' X 41' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
6.	2ND MASKING CURTAIN - 17' X 8' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
7.	REAR TRAVELER CURTAIN - 17' X 21' - WITH 50% ADDED FULLNESS VIA BOX PLEATS, UNLINED
8.	CYCLORAMA - 19' 11" X 48' - WITH 0% ADDED FULLNESS, UNLINED
9.	(2) 14 AWG SWITCH LEGS AND (1) NEUTRAL TO LOW VOLTAGE CONTROLLLER IN RACK
10	SPEAKER AIMING POINT
11.	JBL AC599 SPEAKERS MOUNTED TO STRUCTURAL BEAM, INSTALLED AT APROX. 20' A.F.F.

AV REFLECTED CEILING PLAN

STAGE FRONT
a better plan for AV

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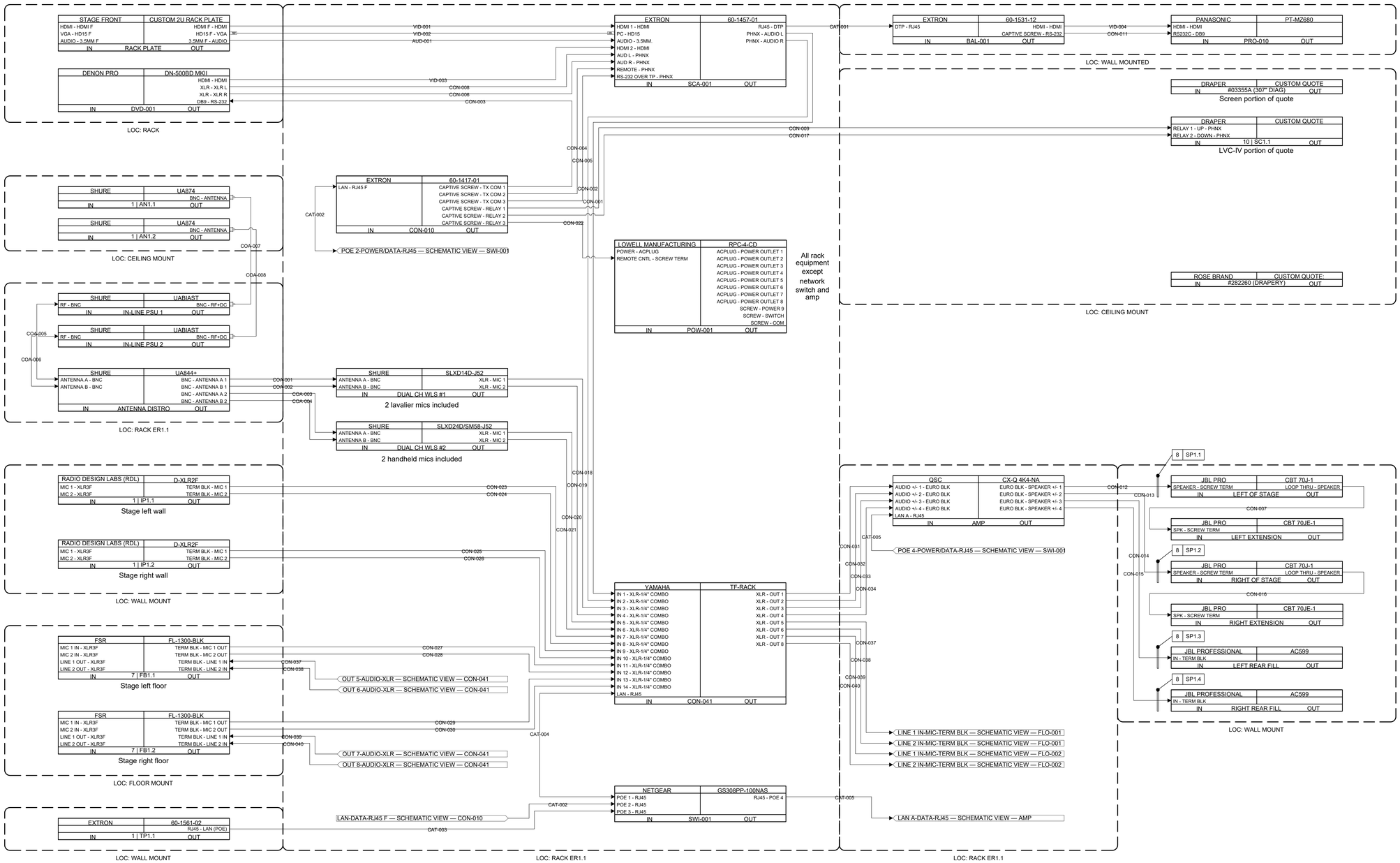
ST. SIMON'S ELEMENTARY AV SYSTEMS
ST. SIMON'S ISLAND, GA
MCKNIGHT CONSTRUCTION

DESIGNED BY
AD
DRAWN BY
TA
CHECKED BY
ATL
PROJECT NUMBER
2359
DATE
9/15/22
TITLE
AV REFLECTED CEILING PLAN

DRAWING NO.
AV201



STAGE FRONT
a better plan for AV

6 SOUTHERN OAKS DR.
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PH. 912-236-1345
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ISSUE

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REVISION △

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ST. SIMON'S ELEMENTARY AV SYSTEMS

ST. SIMON'S ISLAND, GA

MCKNIGHT CONSTRUCTION

DESIGNED BY
AD
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ATL
PROJECT NUMBER
2359
DATE
9/15/22
TITLE
AV FLOW

AV FLOW

DRAWING NO.
AV701