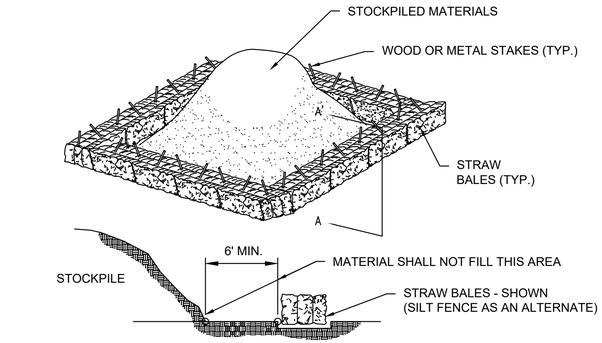
PARTIAL SITE PLAN

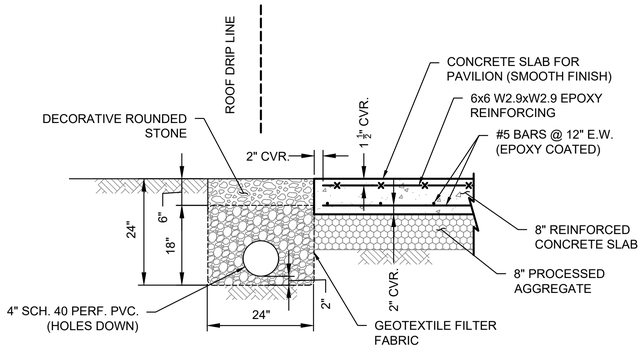


CROSS SECTION A-A'

NOTE: INLETS TO BE MAINTAINED TO PREVENT SILT BUILD UP AT STRAW BALES

TEMPORARY STOCK PILE AREA DETAIL

NOT TO SCALE



PAVILION SLAB AND PERIMETER DRAIN DETAIL

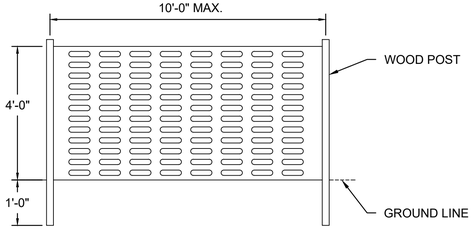
NOT TO SCALE

GENERAL NOTES:

1. CONCRETE STRENGTH SHALL BE 4000 PSI @ 28 DAYS WITH MINIMUM AIR ENTRAINMENT OF 6.0%.
2. STEEL REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE EPOXY COATED.
3. ALL REINFORCING SHALL HAVE 2" MINIMUM COVER UNLESS DIMENSIONED OTHERWISE.
4. CONTRACTOR SHALL REFER TO STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS "THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 818 2020".
5. CONTRACTOR SHALL REGRADE, LOAM AND SEED ANY SOIL DISTURBED BY THE CONTRACTOR OR OTHERS.

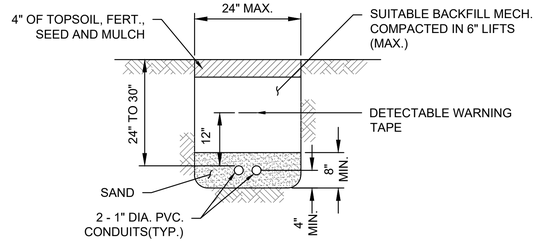
THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING WORK:

1. CONSTRUCT CONCRETE FOOTINGS AND SLAB FOR PAVILION
2. CONSTRUCT PERIMETER DRAIN AROUND PAVILION SLAB
3. CONSTRUCT SIDEWALK
4. ERECT PAVILION
5. INSTALL CONDUIT
6. PERFORM ELECTRICAL INSTALLATION AND CONNECTIONS
7. RESTORE SITE WITH FINISHED GRADING, LOAM AND SEED
8. REMOVE ALL SAFETY AND SEDIMENTATION FENCE



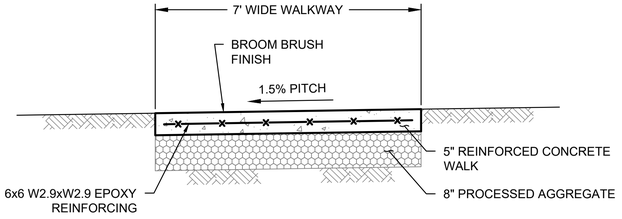
PLASTIC SAFETY FENCE

NOT TO SCALE



CONDUIT TRENCH DETAIL

NOT TO SCALE



TYPICAL SIDEWALK DETAIL

NOT TO SCALE

NOTE: 3/4" DEEP CONTROL JOINTS SHALL BE PLACED EVERY 5 FEET OF WALK WITH FULL EXPANSION JOINTS PLACED EVERY 20 FEET.

PRELIMINARY DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/2/2023

DESIGNER/DRAFTER: MG
CHECKED BY: EJ
SCALE AS NOTED

ENGINEER:
AI Engineers
919 MIDDLE STREET
MIDDLETOWN, CT 06457

Filename: C01 - GENERAL SITE PLAN & DETAILS.DWG

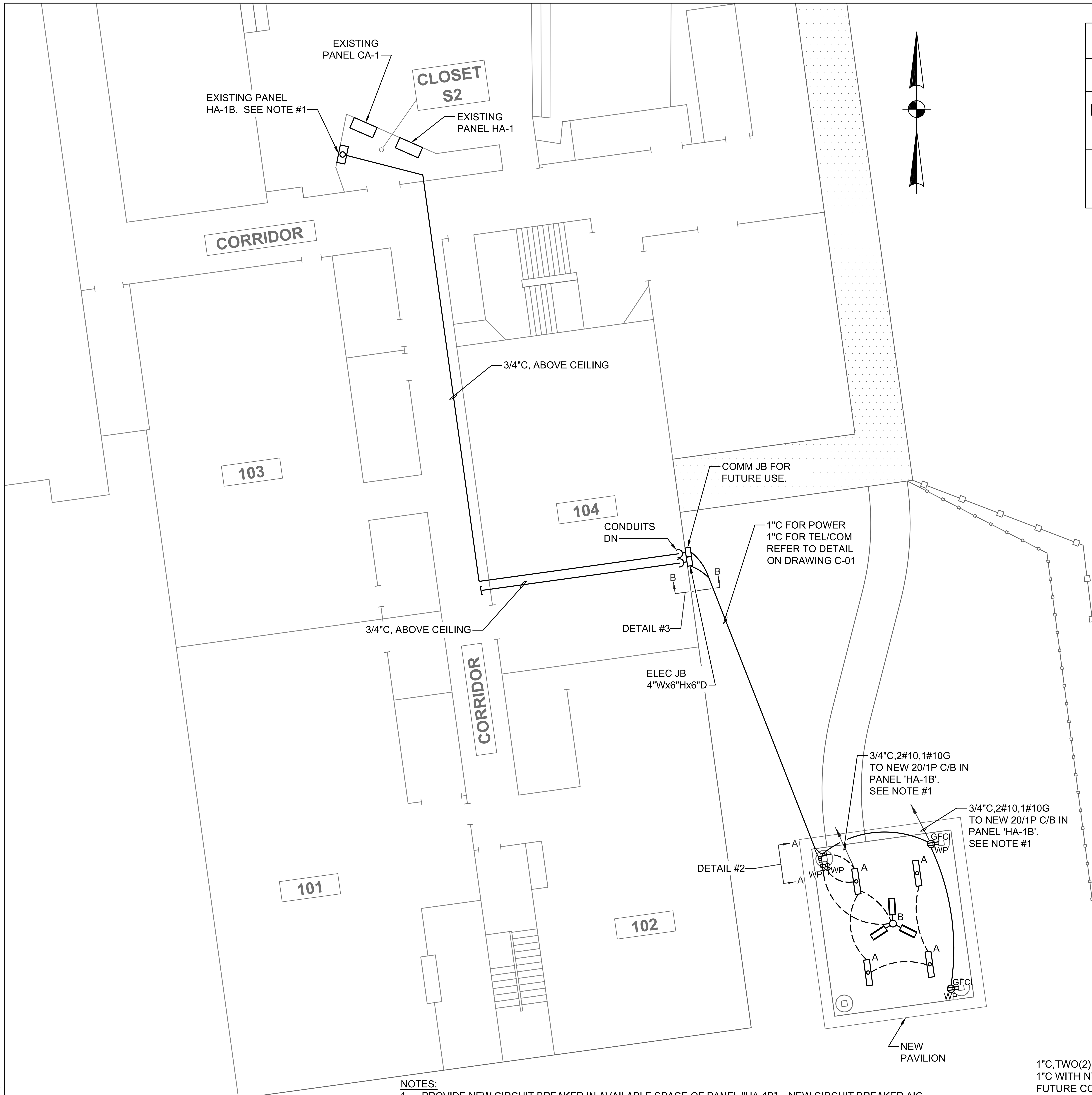
SIGNATURE/ BLOCK:

PROJECT TITLE: **McGEE MIDDLE SCHOOL OUTDOOR CLASSROOM**

TOWN: **BERLIN**

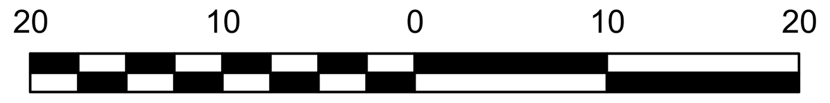
DRAWING TITLE: **GENERAL SITE PLAN**

PROJECT NO. **3718**
DRAWING NO. **C-01**
SHEET NO. **1 of 1**



NOTES:

1. PROVIDE NEW CIRCUIT BREAKER IN AVAILABLE SPACE OF PANEL "HA-1B". NEW CIRCUIT BREAKER AIC RATING SHALL MATCH AIC RATING OF EXISTING PANEL HA-1B (GE "A-SERIES II" PANEL)
2. PENETRATIONS OF FLOORS, WALLS AND CEILINGS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE PROPERLY SEALED SO AS TO MAINTAIN INTEGRITY, AND FIRE OR SMOKE RATING OF THE STRUCTURE.



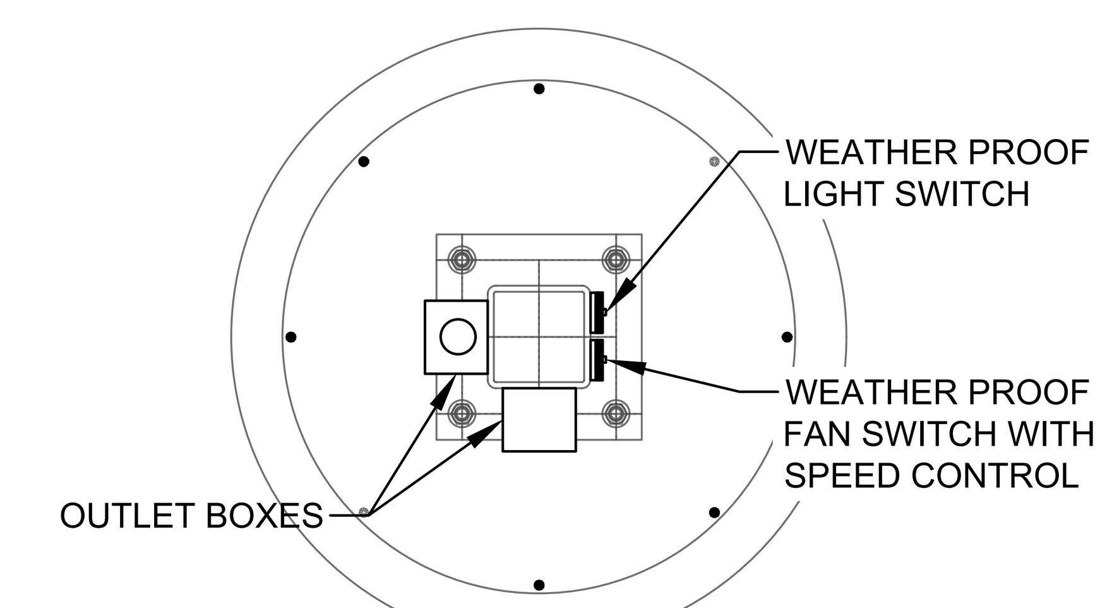
1 PARTIAL SITE PLAN
SCALE: 1"=10'-0"

LIGHT/FAN SCHEDULE

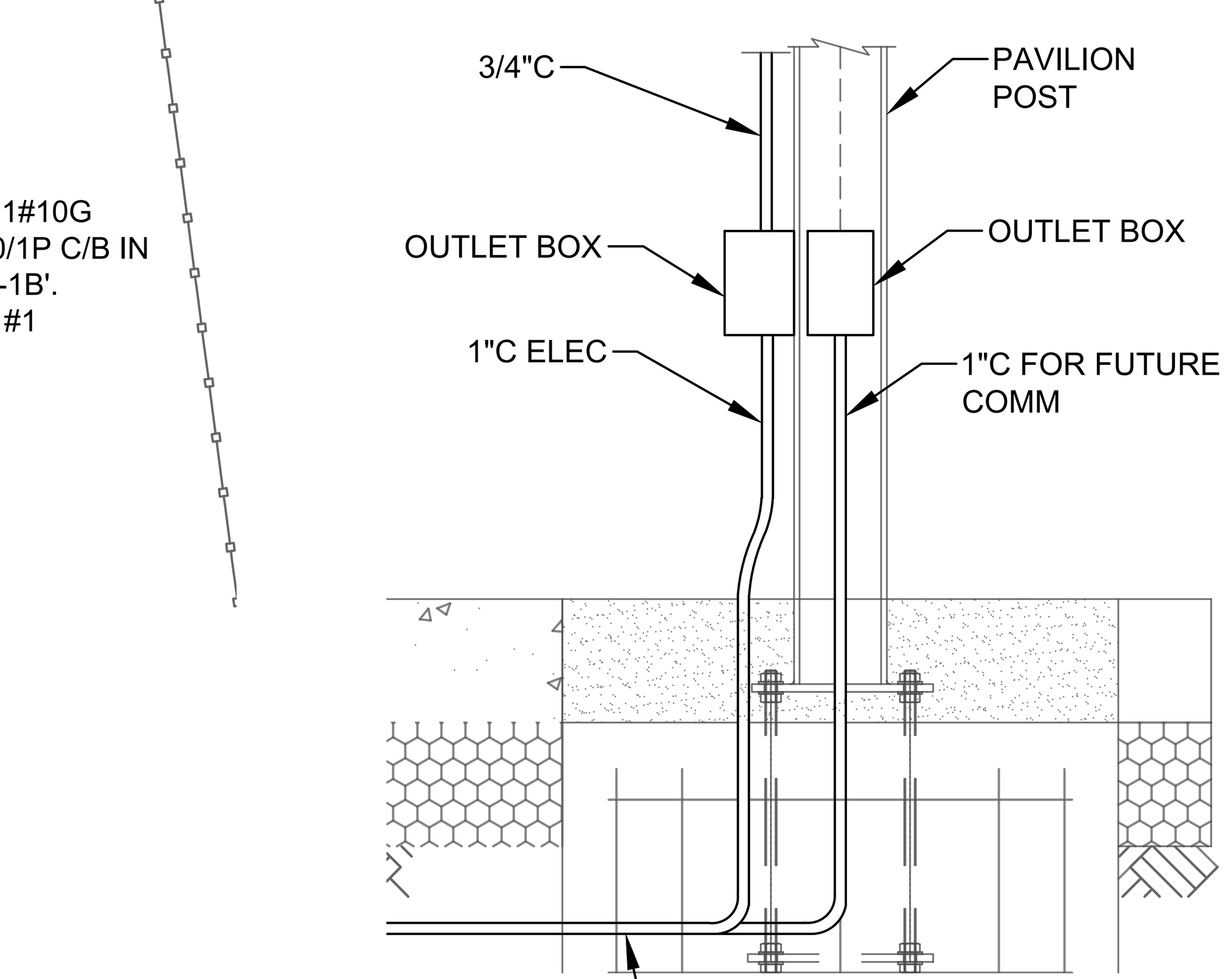
SYMBOL	TYPE	MANUFACTURER	CATALOG NO.	LAMP/WATTS	LUMENS	VOLTAGE	MOUNTING	DESCRIPTION
	A	LITHONIA LIGHTING	DMW2 L24 4000LM ACL MD MVOLT 30K 80CRI QMB	LED, 40W	4631	(MVOLT) 120/277	SURFACE	4' SURFACE MOUNTED LED LIGHT FIXTURE. LOW PROFILE ENCLOSED AND GASKETED INDUSTRIAL VAPOR TIGHT WET LOCATION LISTED FIBERGLASS HOUSING W/ ACRYLIC LENS. MOUNTING BRACKET BY MANUFACTURER.
	B	MINKA AIRE	SIMPLE F787-SL	22W	-	(MVOLT) 120/277	SURFACE/ SUSPENDED	EXTERIOR RATED CEILING FAN W/ SILVER FINISH. WC400 WALL CONTROL SWITCH. MOUNTING HARDWARE BY MANUFACTURER.

ELECTRICAL SYMBOLS

GFCI WP	DUPLEX RECEPTACLE. SUBSCRIPT 'GFCI' DENOTES GROUND FAULT CIRCUIT INTERRUPTER. SUBSCRIPT 'WP' DENOTES WEATHER PROOF.
	DATA OUTLET
$ FSC WP	SINGLE-POLE SWITCH. SUBSCRIPT 'WP' DENOTES WEATHER PROOF & 'SCF' DENOTES SPEED CONTROL FOR FAN
	LIGHT FIXTURE
	CEILING FAN

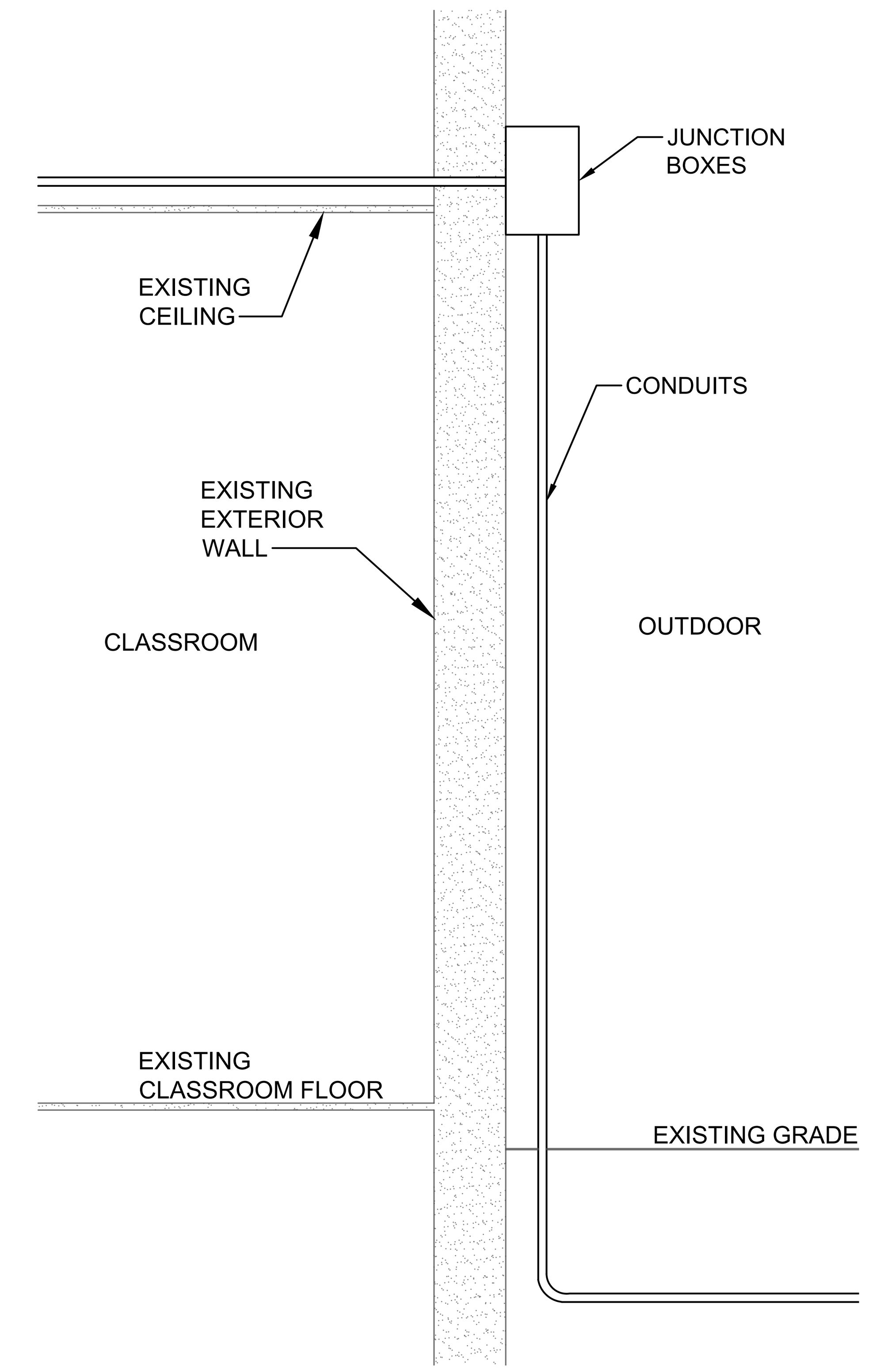


SECTION A-A



ELEVATION A-A

2 JUNCTION BOXES MOUNTED ON POST A-A
NTS



ELEVATION B-B

3 EXTERIOR WALL PENETRATION DETAIL
NTS

PRELIMINARY DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/22/2023

DESIGNER/DRAFTER: ZR
CHECKED BY: TP
SCALE AS NOTED

ENGINEER: AI Engineers
919 MIDDLE STREET
MIDDLETOWN, CT 06457
Filename: E01.DWG

SIGNATURE/ BLOCK:

PROJECT TITLE: **McGEE MIDDLE SCHOOL OUTDOOR CLASSROOM**

TOWN: **BERLIN**

DRAWING TITLE: **ELECTRICAL SITE PLAN**

PROJECT NO. **3718**
DRAWING NO. **E-01**
SHEET NO. **1 of 2**

ELECTRICAL SPECIFICATIONS:

PART 1 - GENERAL

1.1 GENERAL

A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF LOCAL AND STATE AGENCIES AND UTILITY COMPANIES. THIS CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES AND TAXES. ALL EQUIPMENT INSTALLED SHALL BE UL LISTED.

B. NEW WORK:

1. PROVIDE COMPLETE ELECTRICAL LIGHTING & POWER AS INDICATED ON THE CONTRACT DRAWINGS.
2. PROVIDE ALL ELECTRICAL WORK NECESSARY TO POWER OWNER-SUPPLIED EQUIPMENT. PROVIDE ALL RECEPTACLES, POWER WIRING, CORE DRILLS, ETC., NECESSARY FOR A COMPLETE INSTALLATION.
3. SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS, TESTED, APPROVED AND READY FOR OPERATION.

C. WORK BY OTHERS:

1. THE GENERAL/CIVIL CONTRACTOR SHALL PROVIDE CONDUIT STUB-UPS, CUTTING AND CONDUIT TRENCHES, .

1.3 SHOP DRAWING SUBMITTALS

A. SUBMIT SHOP DRAWINGS ON EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL. THE DRAWINGS SHALL INCLUDE RATINGS, PERFORMANCE INFORMATION, OPERATING DATA AND WIRING DIAGRAMS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR WORK PERFORMED OR EQUIPMENT SUPPLIED THAT IS NOT IN AGREEMENT WITH APPROVED SHOP DRAWINGS.

B. THE FOLLOWING LIST OF ELECTRICAL ITEMS MUST BE SUBMITTED BY THIS CONTRACTOR FOR APPROVAL:

1. CIRCUIT BREAKERS
2. WIRING DEVICES AND PLATES
3. LIGHTING & FAN FIXTURES (SUBMIT SAMPLES AS REQUESTED)

1.4 RECORD DRAWINGS

A. NEATLY AND ACCURATELY RECORD ALL CHANGES TO CONTRACT DOCUMENTS ON RECORD SET OF DRAWINGS FURNISHED BY THE GENERAL CONTRACTOR. THESE RECORD "AS-BUILT" DRAWINGS SHALL INCLUDE LOCATIONS OF SPECIFIC ITEMS AS LISTED IN THE VARIOUS SPECIFICATION DIVISIONS. UPON PROJECT COMPLETION, THESE RECORD DRAWINGS SHALL BE TURNED OVER TO THE ENGINEER.

1.5 DEFINITION

A. AS USED ON CONTRACT DRAWINGS, THE TERM "TO PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM OR MATERIAL DESCRIBED."

1.6 GUARANTEE

A. MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL HAVE STANDARD WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. FAILURES DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR DESIGN SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THE CONTRACTOR, INCLUDING DAMAGE DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM SUCH FAILURES. GUARANTEE PERIOD SHALL EXTEND FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.

1.7 INSPECTION

A. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EVERY REQUIRED FITTING, ETC. THE CONTRACTOR SHALL FAMILIARIZE THEIRSELF WITH EXISTING SITE CONDITIONS PRIOR TO SUBMITTING A BID, AND SHALL INCLUDE ALL EQUIPMENT AND ACCESSORIES NECESSARY FOR COMPLETE AND OPERATIONAL SYSTEMS.

1.8 INSURANCE

A. FURNISH INSURANCE CERTIFICATES REQUIRED BY THE OWNER.

1.9 PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS

A. OBTAIN AND PAY FOR PERMITS, INSPECTIONS, LICENSES AND CERTIFICATES REQUIRED. WORK OF THIS CONTRACT SHALL MEET CURRENT ACCEPTED EDITIONS OF THE STATE BUILDING CODE, STATE FIRE SAFETY CODE AND OTHER LAWS, RULES AND REGULATIONS OF LOCAL, STATE AND FEDERAL AUTHORITIES INCLUDING, BUT NOT LIMITED TO: NATIONAL FIRE PROTECTION ASSOCIATION #13; NATIONAL FIRE PROTECTION ASSOCIATION #90A; NATIONAL FIRE PROTECTION ASSOCIATION #90B; INTERNATIONAL PLUMBING CODE; INTERNATIONAL MECHANICAL CODE; NATIONAL FIRE PROTECTION ASSOCIATION #70 (NATIONAL ELECTRICAL CODE); AND LOCAL UTILITY COMPANY REQUIREMENTS. PAY UTILITY COMPANY BACKCHARGES. EQUIPMENT, MATERIALS AND COMPONENTS LISTED IN UL PRODUCT DIRECTORIES, SHALL BEAR UL LABELS.

1.10 ARRANGEMENT OF WORK

A. WORK SHALL BE COORDINATED BETWEEN TRADES TO PREVENT INTERFERENCE. WORK SHALL PRESENT A NEAT COORDINATED APPEARANCE. INSTALL WORK AS NECESSARY TO PROVIDE MAXIMUM POSSIBLE HEADROOM, ADEQUATE CLEARANCE AND READY ACCESS FOR INSPECTION, OPERATION, SAFE MAINTENANCE AND REPAIR AND CODE CONFORMANCE. WHERE SPACE APPEARS INADEQUATE, CONSULT WITH THE ENGINEER BEFORE PROCEEDING WITH INSTALLATION.

1.11 WORKMANSHIP

A. EQUIPMENT AND MATERIALS SHALL BE NEW, OF FIRST QUALITY, SELECTED AND ARRANGED TO FIT PROPERLY INTO SPACES INDICATED. INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1.12 COORDINATION WITH OWNER

A. WORK SHALL BE SCHEDULED WITH THE OWNER. INTERRUPTIONS IN OWNER'S ACCESS TO THE SITE SHALL BE SUBJECT TO OWNER LIMITATIONS OF DATE AND DURATION.

1.13 OPERATION OF SERVICES AND UTILITIES

A. SHUTDOWN OF EXISTING SERVICES AND UTILITIES SHALL, WITHOUT EXCEPTION, BE COORDINATED WITH THE PROPER UTILITY AND WITH THE OWNER AS TO DATE, TIME OF DAY, AND DURATION BEFORE ANY SERVICE IS INTERRUPTED. NOTIFY THE OWNER OF ESTIMATED DURATION OF SHUTDOWN PERIOD AT LEAST TEN DAYS IN ADVANCE OF PROPOSED SHUTDOWN.

1.14 PROTECTION

A. CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT ENTRY OF FOREIGN MATERIAL. PROTECT EXISTING PROPERTY, EQUIPMENT AND FINISHES FROM DAMAGE. REPAIR, TO ORIGINAL CONDITION, EXISTING PROPERTY THAT HAS BEEN DAMAGED DURING EXECUTION OF THE WORK.

B. CLEANING

C. WORK SITE MUST BE KEPT CLEAN. RUBBISH, DEBRIS AND LEFTOVER OR EXCESS MATERIALS SHALL BE REMOVED DAILY

1.15 PAINTING

A. EQUIPMENT AND MATERIALS SHALL HAVE STANDARD MANUFACTURER'S FINISH EXCEPT WHERE OTHERWISE NOTED.

1.16 CUTTING AND PATCHING

A. CUTTING AND PATCHING TO BE PERFORMED BY THIS CONTRACTOR. PAINTING OF FINISHED SURFACES AFTER PATCHING SHALL MATCH ADJACENT FINISHES.

1.17 WATERPROOFING/WEATHERPROOFING

A. PROVIDE NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS WATERPROOF/WEATHERPROOF.

1.19 FIREPROOFING

A. PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE PROPERLY SEALED SO AS TO MAINTAIN THE WATERPROOF INTEGRITY, AND FIRE OR SMOKE RATING OF THE STRUCTURE.

1.20 ACCESS

A. PROVIDE ADEQUATELY SIZED ACCESS DOORS, FOR ACCESS TO CONCEALED EQUIPMENT AND COMPONENTS REQUIRING SERVICING OR INSPECTION. DOORS SHALL HAVE FIRE RATINGS EQUAL TO CONSTRUCTION IN WHICH THEY ARE LOCATED.

1.21 SYSTEMS OPERATION AND MAINTENANCE

A. UPON COMPLETION OF THE WORK AND AT A TIME DESIGNATED BY THE ENGINEER, THE CONTRACTOR SHALL FURNISH INSTRUCTION MANUALS INCLUDING DATA, WARRANTIES, ETC., AND SHALL INSTRUCT THE OWNER OR HIS REPRESENTATIVE AS TO THE ARRANGEMENT, LOCATION AND OPERATION OF ALL EQUIPMENT AND SYSTEMS FURNISHED AND INSTALLED UNDER THE ELECTRICAL CONTRACT.

PART 2 - PRODUCTS

2.1 WIRE CABLE AND RACEWAYS

A. RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE USED FOR ALL EXTERIOR WIRING AND WHERE SUBJECT TO DAMPNESS, EXCEPT AS NOTED BELOW OR AS SPECIFICALLY NOTED ON THE DRAWINGS. CONNECTORS AND COUPLINGS SHALL BE GALVANIZED STEEL THREADED TYPE LISTED FOR RMC USE.

B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR FEEDERS RUN ABOVE GROUND IN DRY AREAS. CONNECTORS AND COUPLINGS SHALL BE GALVANIZED STEEL, EITHER COMPRESSION TYPE OR HEAVY-DUTY SET SCREW-TYPE, LISTED FOR EMT USE. INDENT OR CRIMP-TYPE CONNECTORS ARE NOT ALLOWED.

C. EMT OR RGS SHALL BE USED FOR ALL CIRCUIT HOMERUNS.

D. MINIMUM SIZES SHALL BE AS FOLLOWS:

1. CONDUIT AND EMT: 3/4" UNLESS OTHERWISE NOTED.
2. FLEXIBLE METAL CONDUIT: ½"
3. WIREWAY: 4" X 4".
4. CABLE LADDER: 12".

E. TYPE MC METAL-CLAD CABLE MAY BE USED FOR BRANCH WIRING TO LIGHT FIXTURES, RECEPTACLES AND SWITCHES. WHEREVER MC CABLE IS USED FOR LIGHT FIXTURE WIRING, LEAVE SUFFICIENT SLACK FOR FUTURE REMOVAL OR SERVICING OF FIXTURES IN FINISHED CEILINGS. THE MC CABLE SHALL BE UL LISTED, 600V, 90 DEGREE C RATED, METAL CLAD WITH THHN INSULATION AND GREEN INSULATED GROUND WIRE. CONNECTORS AND FITTINGS SHALL BE GALVANIZED STEEL, LISTED FOR MC CABLE USE. ALL CABLES SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE AT LEAST 4' O.C. AND WITHIN 12" FROM EVERY FITTING AND SHALL RUN IN LINES PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS. CABLE SHALL NOT REST ON THE CEILING OR STRUCTURE.

F. TYPE MC CABLE SHALL NOT BE USED FOR HOMERUNS. CABLE SHEATH OF INTERLOCKED ALUMINUM IS NOT ACCEPTABLE. TYPE AC ARMORED CABLE SHALL NOT BE PERMITTED ON THE JOB.

G. WHERE MC CABLE IS ALLOWED, EMT SHALL BE INSTALLED FROM ELECTRICAL PANELS TO A COLLECTOR BOX AND FROM THE COLLECTOR BOX TO THE FIRST DEVICE IN EACH CIRCUIT, OR TO A SEPARATE JUNCTION BOX INSTALLED IN AN ACCESSIBLE CEILING SPACE DIRECTLY ABOVE THE FIRST DEVICE.

H. FLEXIBLE METALLIC CONDUIT (FMC) OR LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) SHALL BE USED FOR CONNECTIONS TO VIBRATING EQUIPMENT AND FURNITURE PARTITIONS. CONNECTORS, FITTINGS AND CLAMPS FOR FMC SHALL BE GALVANIZED STEEL, LISTED FOR FMC USE. CONNECTORS AND COUPLINGS FOR LFMC SHALL BE ZINC PLATED MALLEABLE IRON OR STEEL, WITH ENGAGEMENT WINDOW LOCKNUT AND SEALING RING: LIQUID, OIL, AND RAIN-TIGHT; SUITABLE FOR WET LOCATIONS, LISTED FOR LFMC USE: ACCEPTABLE EQUIVALENT TO O-Z/GEDNEY "TYPE 4Q".

1. BLUE TYPE LA LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE USED FOR ALL WIRING BENEATH RAISED FLOOR.
2. GREY/TAN TYPE LA LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE USED FOR FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND TO FURNITURE PARTITIONS FROM UNDERFLOOR DUCT ACTIVATION FITTINGS.

I. CONDUCTORS SHALL BE NEW COPPER WITH 600 VOLT CODE GAUGE INSULATION CONFORMING TO NEC REQUIREMENTS. WIRE #10 AND SMALLER SHALL BE SOLID CONDUCTOR WITH THWN/THHN INSULATION. MINIMUM SIZE WIRE FOR LIGHT AND POWER CIRCUITS SHALL BE #12 AWG. THE CONTRACTOR SHALL INCLUDE AN INDIVIDUAL CODE SIZED GREEN INSULATED GROUND CONDUCTOR FOR ALL CIRCUITS; THE USE OF THE CONDUIT SYSTEM OR CABLE COVERING AS THE SOLE MEANS OF GROUNDING WILL NOT BE PERMITTED.

J. COMMON NEUTRALS SHALL NOT BE USED FOR RECEPTACLE CIRCUITS, UNLESS OTHERWISE NOTED ON PLANS. WHEN USED, COMMON NEUTRAL CONDUCTOR AMPERE RATING SHALL BE DOUBLE THE PHASE CONDUCTOR RATING.

K. ALL CONDUITS AND WIRING SHALL BE RUN CONCEALED INSIDE WALLS WHERE POSSIBLE. EXPOSED CONDUITS WHERE ALLOWED SHALL BE RUN NEATLY IN LINES PARALLEL OR PERPENDICULAR TO BUILDING WALLS.

L. ALL SPLICES FOR #10 OR SMALLER SHALL BE MADE WITH "SCOTCHLOK" SPRING CONNECTORS OR EQUAL.

M. PROVIDE NYLON PULL LINES FOR ALL EMPTY CONDUITS.

2.2 GROUNDING AND BONDING

A. EQUIPMENT GROUNDS

1. GROUNDING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 70 (NEC) AND TO SATISFACTION OF LOCAL ELECTRICAL INSPECTOR OR ENGINEER.
2. PROVIDE GREEN THHN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR BETWEEN THE GROUND BUS OF THE SOURCE PANELBOARD AND EACH LOAD BEING SERVED. CONDUCTOR SHALL BE SIZED ACCORDING TO NEC. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT, UNLESS OTHERWISE INDICATED ON CONTRACT DRAWINGS.
3. MAINTAIN ELECTRICAL CONTINUITY OF RACEWAYS.

B. GROUND FAULT PROTECTION

1. IF EXCESSIVE GROUND CURRENT FLOWS, MAIN BREAKERS AND/OR CIRCUIT BREAKERS WITH GROUND FAULT SENSING SHALL TRIP TO PROTECT AGAINST ARCING GROUND FAULTS.
2. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR RECEPTACLES LOCATED OUTSIDE AS REQUIRED AND INDICATED.

C. MATERIALS

1. WIRE SHALL BE STRANDED BARE COPPER OR INSULATED COPPER, AS INDICATED ON CONTRACT DRAWINGS.
2. BUSHINGS AND PRESSURE LUGS SHALL BE BY T&B, O.Z./GEDNEY OR ACCEPTABLE EQUIVALENT.
3. PIPE CLAMPS SHALL BE BY O.Z./GEDNEY OR ACCEPTABLE EQUIVALENT.

2.3 OUTLET AND JUNCTION BOXES

A. SWITCH AND RECEPTACLE OUTLET BOXES IN PARTITIONS WHERE WIRING IS CONCEALED SHALL BE STANDARD 4 INCHES SQUARE, 1-1/2 INCHES DEEP, HOT-DIPPED, GALVANIZED STEEL, WITH DEVICE RING FOR BOXES INSTALLED IN SHEETROCK WALLS. USE 1-1/2 INCH DEEP SQUARE CORNER TILE WALL EXTENSION FOR BOXES INSTALLED IN TILE, EXPOSED BRICK OR EXPOSED BLOCK MASONRY WALLS.

B. BOXES SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. SUITABLE MEANS SHALL BE PROVIDED TO SUPPORT OUTLET BOXES TO TAKE THE WEIGHT OF FIXTURES. RECESSED OUTLET BOXES OR THEIR EXTENSION COVERS SHALL BE SET FLUSH WITH FACE OF FINISHED WALL, BUT IN NO CASE SET GREATER THAN 1/4 INCH BEHIND FINISHED FACE OF WALL.

C. JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH CODE REQUIREMENTS.

D. JUNCTION AND OUTLET BOXES WHERE EXPOSED TO THE WEATHER AND WET LOCATIONS SHALL BE THREADED HUB TYPE AND PROVIDED WITH WATERTIGHT SCREW-ON COVERS AND GASKETS.

2.4 SWITCHES, RECEPTACLES AND PLATES

A. SWITCHES AND RECEPTACLES SHALL BE AS MANUFACTURED BY HUBBELL, ARROW-HART, LEVITON OR PASS AND SEYMOUR AND EQUIVALENT TO THE FOLLOWING SPECIFICATION GRADES, WITH COLOR MATCHING THE CITY OF WATERBURY STANDARD:

1. SINGLE-POLE SWITCHES SHALL BE HUBBELL #1221.
2. MOMENTARY CONTACT SWITCHES SHALL BE SINGLE-POLE, DOUBLE-THROW EQUIVALENT TO HUBBELL #1557.
3. DUPLEX GROUNDING TYPE RECEPTACLES SHALL BE 20 AMPERE HUBBELL #5362.
4. GROUND FAULT TYPE RECEPTACLES SHALL BE HUBBELL #GF-5362 FEED-THROUGH RECEPTACLES..

B. PROVIDE WALL PLATES EQUAL TO BUILDING STANDARD ON ALL SWITCHES AND RECEPTACLES. WHEN NO STANDARD EXISTS PROVIDE SPECIFICATION GRADE STAINLESS STEEL (TYPE 302).

C. WHERE THERE ARE MULTIPLE DEVICES IN ONE LOCATION, DEVICES SHALL BE GANGED UNDER ONE COVER PLATE. ALL WALL SWITCHES SHALL BE FLUSH MOUNTED, WHERE APPLICABLE.

D. RECEPTACLES SHALL BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR WITH U GROUND UP UNLESS OTHERWISE INDICATED.

E. WALL SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR, ON STRIKE SIDE OF DOOR, UNLESS OTHERWISE INDICATED.

2.5 LIGHTING FIXTURES

A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING EQUIPMENT AS SHOWN ON THE DRAWINGS AND SPECIFIED ON DRAWINGS COMPLETE WITH LAMPS READY FOR OPERATION.

B. ALL EXISTING LIGHTING FIXTURES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE RE-LAMPED WITH NEW LAMPS TO MATCH BUILDING STANDARD FOR TYPE AND COLOR AND CLEAN ALL REFLECTING SURFACES, DIFFUSERS AND LOUVERS.

C. FIXTURES NOT NOTED AS BEING REUSED WILL BE TURNED OVER TO THE BUILDING OWNER, OR DISPOSED OF PER THE OWNER'S DIRECTION DURING CONSTRUCTION.

D. INSTALLATION OF LIGHTING FIXTURES:

1. FIXTURES SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE BY MECHANICAL MEANS AND BY SAFETY WIRE. PROVIDE BOX-MOUNTED STUDS AND ADDITIONAL STRUCTURAL SUPPORTS AS REQUIRED. PROVIDE TWO SAFETY WIRES PER FIXTURE. EACH SAFETY WIRE SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE. SAFETY WIRE SHALL BE ADJUSTED TO BE IN SLACK TENSION.
2. INSTALL SEISMICALLY RATED CLIPS TO SECURE RECESSED GRID-SUPPORTED LUMINAIRES IN PLACE. PROVIDE FOUR CLIPS PER FIXTURE.

2.6 CIRCUIT BREAKERS

A. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING IN STYLE, MANUFACTURER AND INTERRUPTING RATING FOR PANEL IN WHICH THEY ARE BEING INSTALLED, UNLESS NOTED OTHERWISE.

PART 3 - EXECUTION

3.1 LOAD BALANCE

A. THE ELECTRICAL CONTRACTOR SHALL BALANCE THE LOADS ON THE THREE PHASES IN THE ELECTRICAL PANELBOARD.

3.2 CIRCUIT BREAKER TESTING/SETTING

A. FEEDER CIRCUIT BREAKERS SHALL BE TESTED BY AN INDEPENDENT TESTING FIRM WITH 10 YEARS EXPERIENCE, PRIOR TO INSTALLATION.

B. TESTS SHALL BE PERFORMED AT SPECIFIED TRIP SETTING TO ENSURE PROPER OPERATION.

C. RESULTS OF TEST SHALL BE FURNISHED TO OWNER FOR RECORD.

D. VERIFY FINAL TRIP SETTINGS FOR ADJUSTABLE OR INTERCHANGEABLE CIRCUIT BREAKER ELEMENTS. INSTANTANEOUS SETTINGS SHALL BE MINIMUM UNLESS NOTED OTHERWISE.

3.3 GENERAL WIRING TESTS

A. AT THE TIME OF FINAL INSPECTION AND TEST, ALL WIRING AND CONNECTIONS THROUGHOUT THE RENOVATION AREAS MUST BE COMPLETED, DEVICES AND EQUIPMENT PROPERLY OPERATING, LIGHTING FIXTURES INSTALLED, AND POWER AND LIGHTING CIRCUIT AND CONTROL WIRING CLEARLY IDENTIFIED WITH APPROVED TAGS READY FOR ACCEPTANCE. EACH SYSTEM SHALL TEST FREE FROM SHORT CIRCUIT AND GROUNDS.

B. INSULATION RESISTANCE FOR LOW VOLTAGE CABLES AND WIRING SHALL BE PERFORMED AT 1000 VOLT D.C. FOR ONE (1) MINUTE. WHEN INSULATION RESISTANCE MUST BE DETERMINED, SWITCHBOARDS, PANELBOARDS, SWITCHES AND OVERCURRENT DEVICES SHALL BE IN PLACE, AND THE INSULATION RESISTANCE WHEN TESTED AT 1000 VOLTS D.C. SHALL BE NO LESS THAN 100,000 OHMS FOR #14 AND #12 WIRE AND 250,000 OHMS FOR #10 WIRE AND LARGER.

3.4 GROUNDING SYSTEM TESTS

A. TEST AND INSPECT THE MAIN GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH SECTION 7.13 OF THE NETA HANDBOOK FOR ELECTRICAL TESTING PROCEDURES. PERFORM A RESISTANCE TO GROUND TEST AND INSURE THAT RESISTANCE IS NO GREATER THAN 5 (FIVE) OHMS. INVESTIGATE AND SUPPLEMENT GROUNDING SYSTEM WHERE RESISTANCE EXCEEDS RECOMMENDED VALUES AND RE-TEST AS REQUIRED.

B. GROUND FAULT CIRCUIT INTERRUPTION SHALL BE TESTED AFTER INSTALLATION BY RANDOM CONNECTION OF PLUG-IN TESTER TO VARIOUS PROTECTED RECEPTACLES, AS DIRECTED BY ENGINEER.

3.5 OPERATIONAL TESTS

A. EACH PIECE OF ELECTRICAL EQUIPMENT, INCLUDING LIGHTING FIXTURES, MOTORS AND CONTROLS SHALL BE OPERATED CONTINUOUSLY FOR MINIMUM TEST PERIOD OF ONE HOUR.

B. DEMONSTRATE BY OPERATING EQUIPMENT THAT CIRCUITS AND DEVICES ARE IN GOOD OPERATING CONDITION. EACH ITEM OF CONTROL EQUIPMENT SHALL BE OPERATED MINIMUM OF FIVE TIMES. DEMONSTRATION SHALL BE PERFORMED AFTER WIRING TESTS.

3.6 LABELING

A. LABEL ALL NEW DISCONNECTS, STARTERS, MOTORS, IN A MANNER ACCEPTABLE TO THE ENGINEER. PROVIDE UPDATED PANEL SCHEDULES IN ALL PANELBOARDS WITHIN THE SCOPE OF WORK.

B. ALL MANUFACTURER'S NAMEPLATES SHALL BE KEPT CLEAN AND FREE OF PAINT.

C. ALL PANELS SUPPLIED BY FEEDERS SHALL BE MARKED TO INDICATE WHERE THE POWER ORIGINATES.

D. PROVIDE ARC FLASH HAZARD WARNING SIGNAGE AT NEW ELECTRICAL EQUIPMENT, SUCH AS BUT NOT LIMITED TO, PANELBOARDS, DISCONNECT SWITCHES, METER SOCKET ENCLOSURES, ETC. SIGNAGE SHALL COMPLY WITH NEC AND NFPA 70E, AND SHALL BE A MINIMUM OF 4" X 5".

E. PROVIDE FIELD MARKING ON SERVICE EQUIPMENT: MAXIMUM AVAILABLE FAULT CURRENT AND DATE THE FAULT CURRENT WAS CALCULATED.

END OF SECTION

PRELIMINARY DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/22/2023

DESIGNER/DRAFTER: ZR
CHECKED BY: TP
SCALE AS NOTED

ENGINEER: AI Engineers
919 MIDDLE STREET
MIDDLETOWN, CT 06457
Filename: E02.DWG

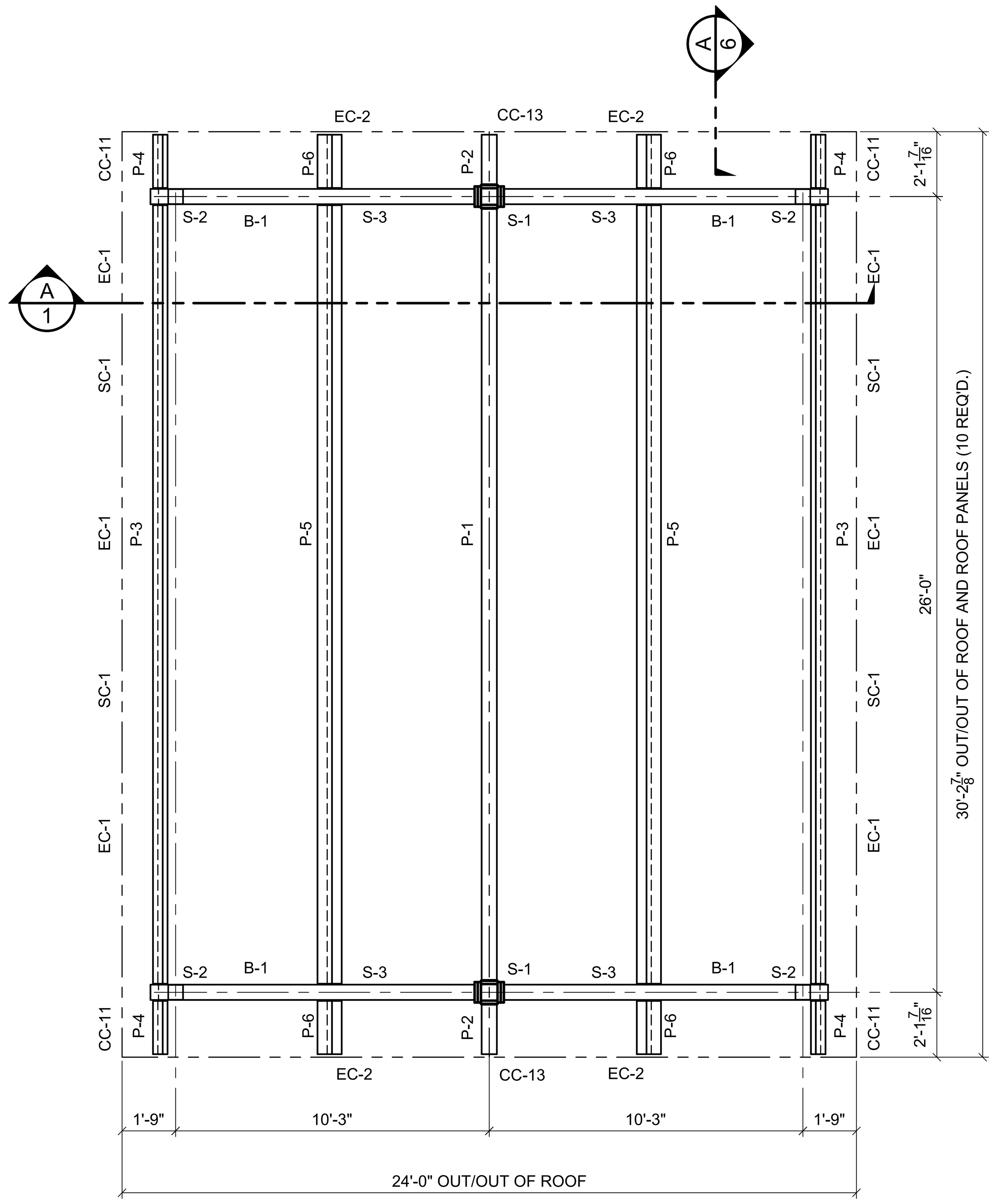
SIGNATURE/BLOCK:

PROJECT TITLE: McGEE MIDDLE SCHOOL OUTDOOR CLASSROOM

TOWN: BERLIN

DRAWING TITLE: ELECTRICAL SPECIFICATIONS

PROJECT NO. 3718
DRAWING NO. E-02
SHEET NO. 2 of 2



ROOF FRAMING PLAN

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

ERECTOR NOTE:
DECK SUPPORT CAPS REQUIRED AT BEAMS FOR VARIOUS CONDITIONS. SEE BEAM AND DECK SUPPORT CAP DETAIL(S) FOR CAP ATTACHMENT FOR A HIP, RIDGE, EAVE OR CUPOLA CONDITION.

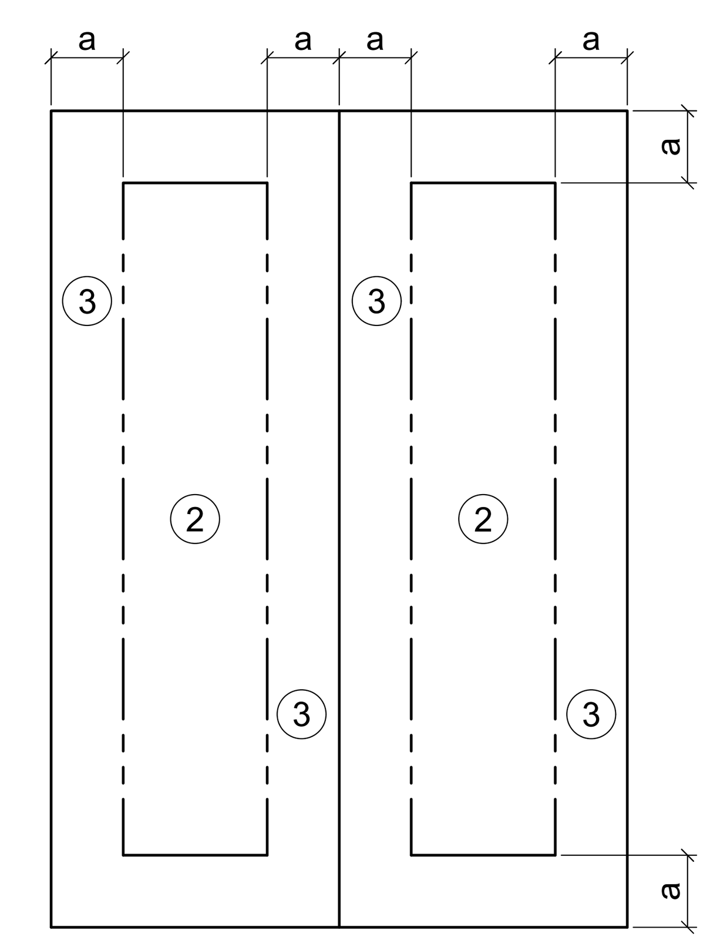
ERECTOR NOTE:
SEE METAL DECK DETAILS FOR ATTACHMENT OF CAP/TRIM PIECES.

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

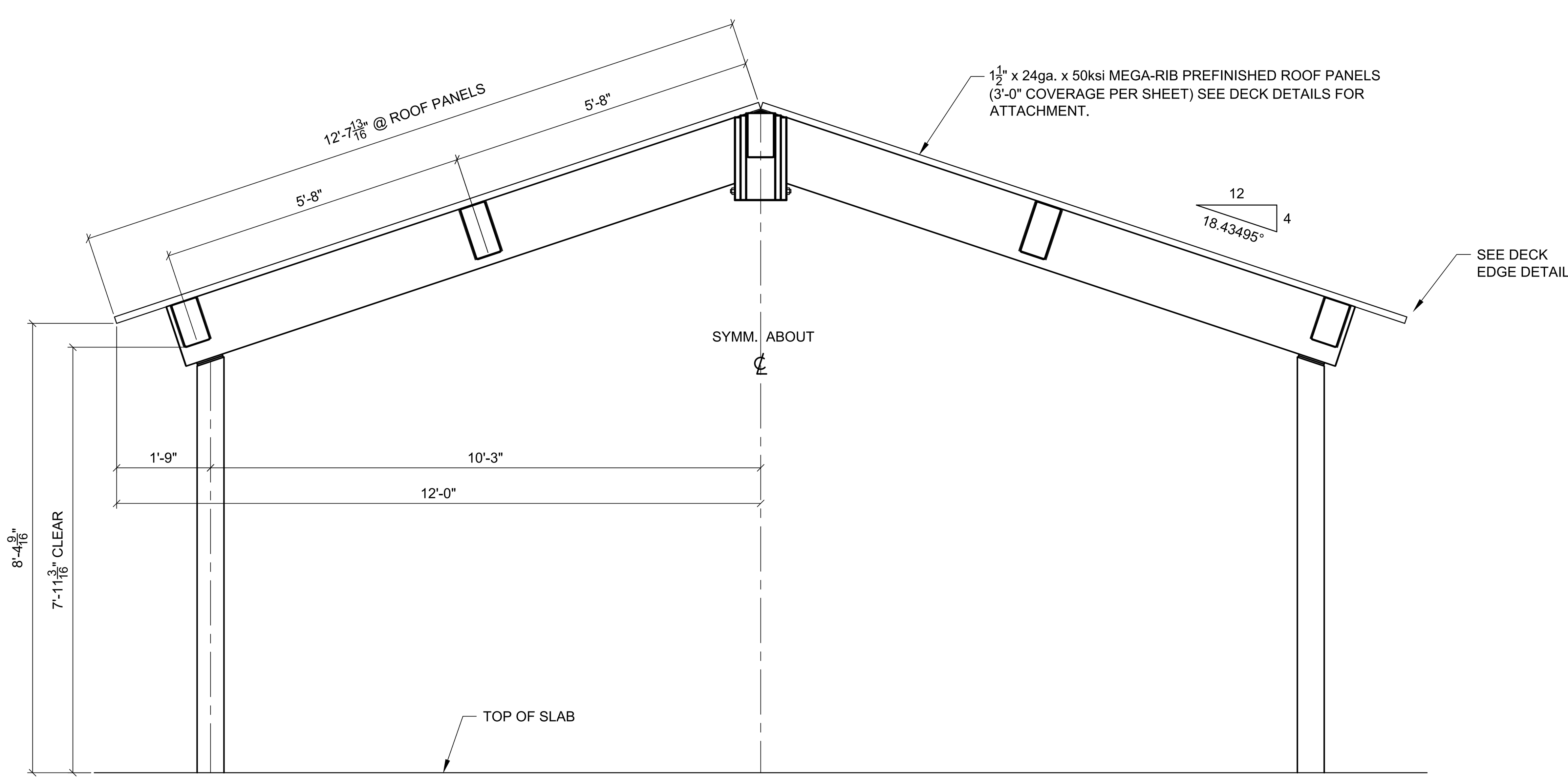


ROOF PLAN

a = 3'-0"

ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION	AREA
2	47.0 PSF	43.3 PSF	≤ 36 ft^2
2	30.4 PSF	28.0 PSF	> 36 ft^2
3	60.9 PSF	56.0 PSF	≤ 9 ft^2
3	47.0 PSF	43.3 PSF	> 9 ft^2, ≤ 36 ft^2
3	30.4 PSF	28.0 PSF	> 36 ft^2



SECTION A/1

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

CONTRACT NOTE:
Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

STEEL & HARDWARE SHOP NOTES:
1. All steel plate to be ASTM A572 Grade 50.
2. Steel tubes to be ASTM A500 Grade C.
3. All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.
4. All bolts to be ASTM F3125 Grade A325 Type 1. Exception: All bolts smaller than 1/2"Ø to be A307A. Anchor bolts as noted.
5. All nuts to be ASTM A563DH except as noted. At F1554 Gr. 36 anchor bolts and A307A bolts, nuts to be ASTM A563A.
6. All fabricated steel to be powder coated; color selected by owner.
7. Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

ERECTION NOTES:
All steel members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Bolts to be snug tight. Torque measurement is not required.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

DESIGN CRITERIA:
2022 CT State Building Code w/ 2021 IBC
Type of Construction: Type II-B
Occupancy Classification: Assembly A-3
Building Risk Category III
Mean Roof Height = 10'-6"
Building Area = 756 ft^2
Building Volume = 7,620 ft^3
No. of Occupants = 48 (15 ft^2 per person)

ROOF DL
Metal Roofing 1.2 psf
Misc. 0.8 psf
Total = 2.0 psf + weight of framing

ROOF LL
L_r = 20 psf

ROOF SL
P_g = 30 psf (Ground Snow)
$P_f = 0.7 * P_g * C_e * C_t * I_S$
$C_e = 1.0$, $C_t = 1.2$, $I_S = 1.1$
P_f = 28 psf
$P_s = P_f * C_s$
4:12 pitch: $C_s = 1.0$, P_s = 28 psf; Use 30 psf on roof

WIND LOAD
V_{ult} = 130 mph, V_{asd} = 78 mph
Exposure 'C', Open Building w/ $GC_{pi} = 0$
Component & Cladding Ultimate Wind Pressures:
See "ROOF PLAN" on this sheet.

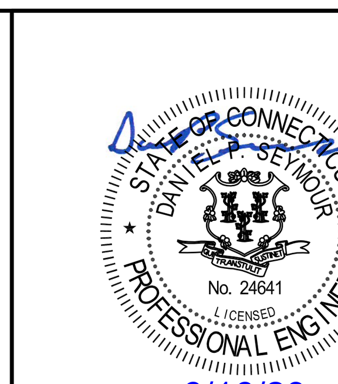
SEISMIC
$I_E = 1.25$
$S_S = 0.201$, $S_1 = 0.055$
Site Class D (Assumed)
$S_{DS} = 0.214$, $S_{D1} = 0.088$
Seismic Design Category B
Equivalent Lateral Force Procedure
Cantilevered Column Systems - Steel ordinary cantilever column system
R = 1.25, $C_S = 0.214$, $\rho = 1.0$, V = 1,520#

DESIGN CERTIFICATION FOR:

BUILDING SIZE: 24' x 30'
BUILDING LOCATION: BERLIN, CT

THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY FIFTHROOM, AND ONLY IF MATERIALS ARE PAID FOR IN FULL.

IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF FIFTHROOM OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL & VOID.



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BERLIN, CT

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Phone 888-293-2339
Fax 724-444-5301
www.fifthroom.com
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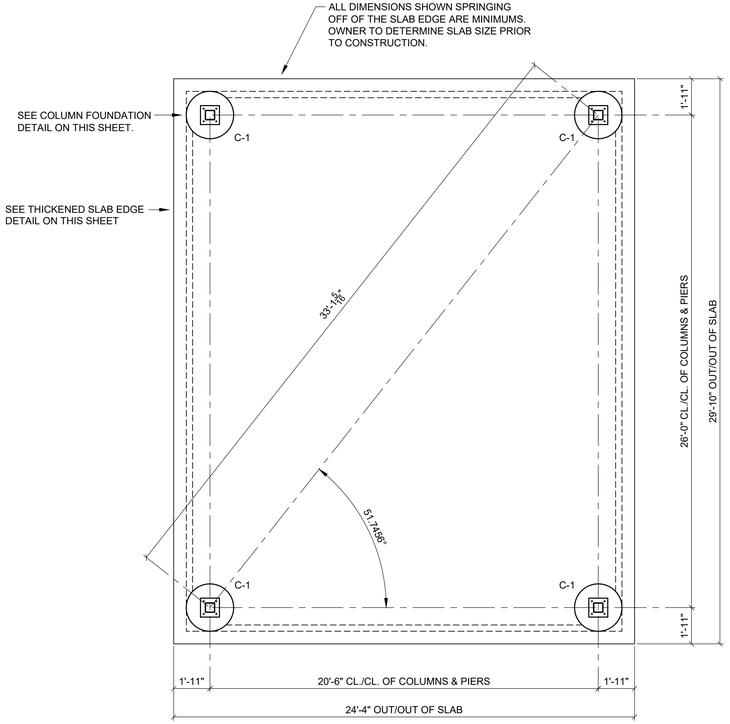
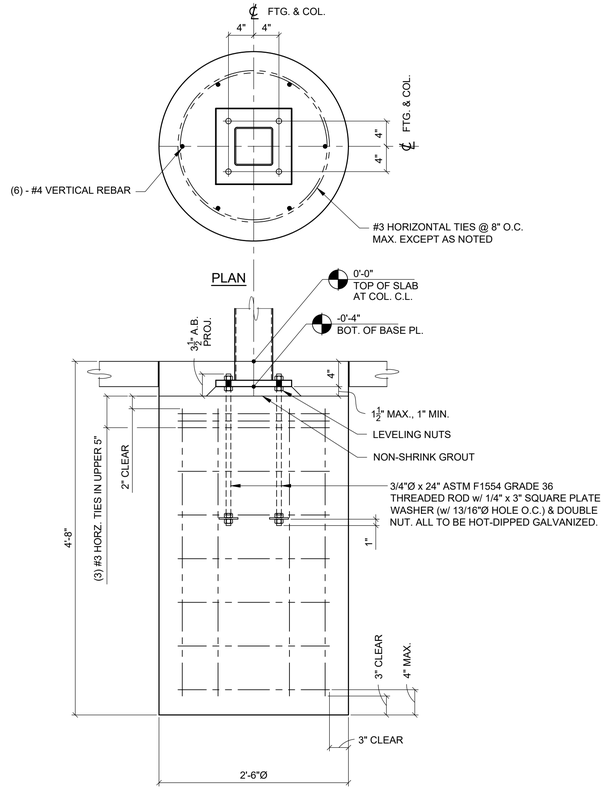
PROJ. NO.:	23-142-A
DRAWN:	DPS 6-16-23
CHK'D:	
REV 1:	
REV 2:	
REV 3:	
REV 4:	
SHOP DWG NO.:	14733R1
EEC JOB NO.:	14733 R
SHEET NO.:	1 OF 6



FOUNDATION PLAN

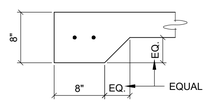
SCALE: 1/4" = 1'-0"



COLUMN FOUNDATION DETAIL

COLUMN BASE REACTIONS:

- $V_{DL+SL\ UNB.}$ = 7,600#
- $V_{0.6*DL+0.6*WL}$ = -1,050#
- $H_{DL+0.6*WL}$ = 1,020#
- $M_{O.T.\ DL+0.6*WL}$ = 8,200#-ft



THICKENED SLAB EDGE DETAIL

CONCRETE NOTES:

1. Remove all organic material and topsoil from slab area. Verify suitability of subgrade. Footings are to bear on undisturbed, natural soil or engineered fill. Both are to be compacted to 95% Proctor density.
2. Prepare slab with min. 8" compacted sand, gravel, or crushed rock.
3. Concrete slab to be 4" thick. Reinforce slab with 6x6-w1.4xw1.4 welded wire fabric at mid-depth. Lap splices 8". Alt.: Fiber mesh admixture (min. 1.5#/c.y., fibrillated polypropylene).
4. Edge of slab to be thickened to min. 8" deep x 8" wide reinforced with 2-#4 continuous rebars. Lap splices min. 24".
5. In locations subject to frost, install isolation joint, max. 1/8" wide, around column piers using diamond or circular layout. Wire mesh shall be interrupted at isolation joints.
6. Install crack control joints (3/16" wide x 1" deep) at 8' to 12' o.c.
7. Concrete slabs in open areas are to be sloped for drainage from center to edge and away from columns. Surface is to be lightly broomed or have a wood troweled finish.
8. Concrete slabs in enclosed areas are to have positive drainage to floor drains and have a troweled finish.
9. Concrete slab, foundation, re-bar, wire mesh, leveling nuts, grout & anchor bolts (if required) are N.I.C.
10. All concrete reinforcing steel to be grade 60, deformed bars.
11. F'_c of concrete to be 3000 psi @ 28 days for foundation. F'_c of concrete to be 3500 psi @ 28 days for slab, air-entrained.
12. All concrete work to be in accordance w/ latest ACI code.
13. Assumed allowable soil bearing pressures: 2000 psf vertical bearing, 150 pcf passive lateral bearing. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundations must be redesigned (N.I.C.).
14. Leveling nuts have been shown under column base plate. Adjust leveling nuts as required to ensure all column bases are at the same elevation. Fill void between column base plate and top of foundation with non-shrink grout.
15. Grout shall be non-shrink, non-metallic, factory pre-mixed grout in accordance with ASTM C1107 with F'_c of not less than 9,000 psi.
16. Reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided to furnish support for bars.

ELECTRICAL CONDUIT NOTE:

If electrical access is required; install conduit in foundation and align with access hole in column base plate. Coordinate with electrical contractor.

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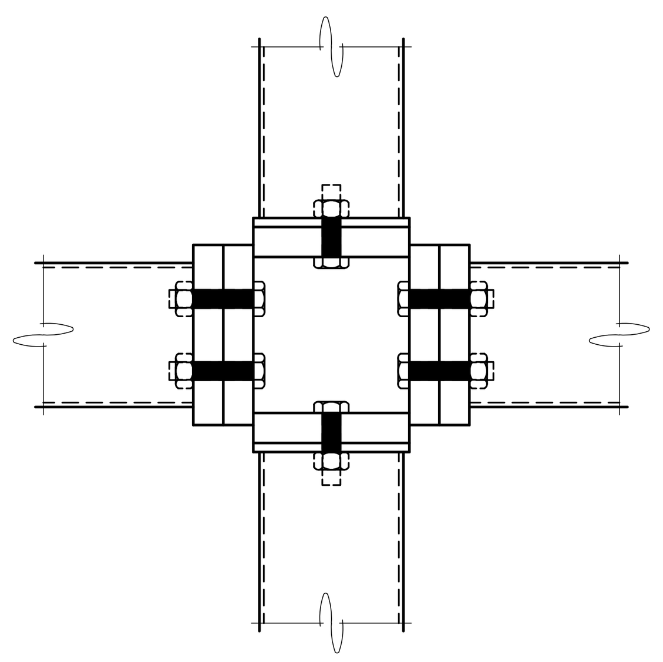
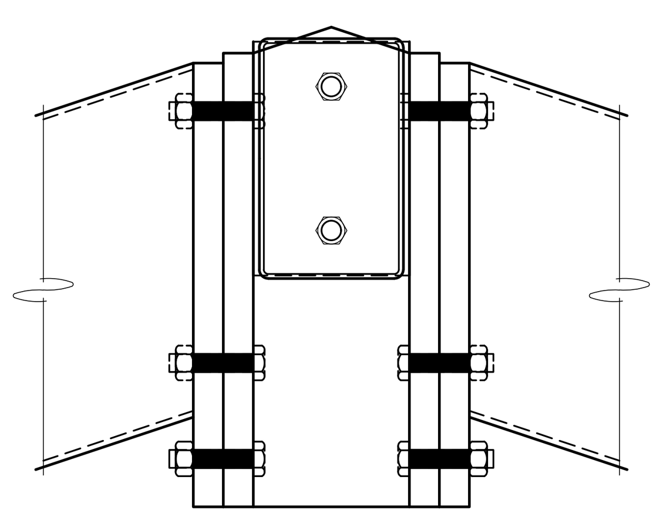
PROJ. NO.: 23-142-A

DRAWN:	DPS	6-16-23
CHK'D:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:		14733R2
EEC JOB NO.:		14733 R
SHEET NO.:		2 OF 6

6/16/23

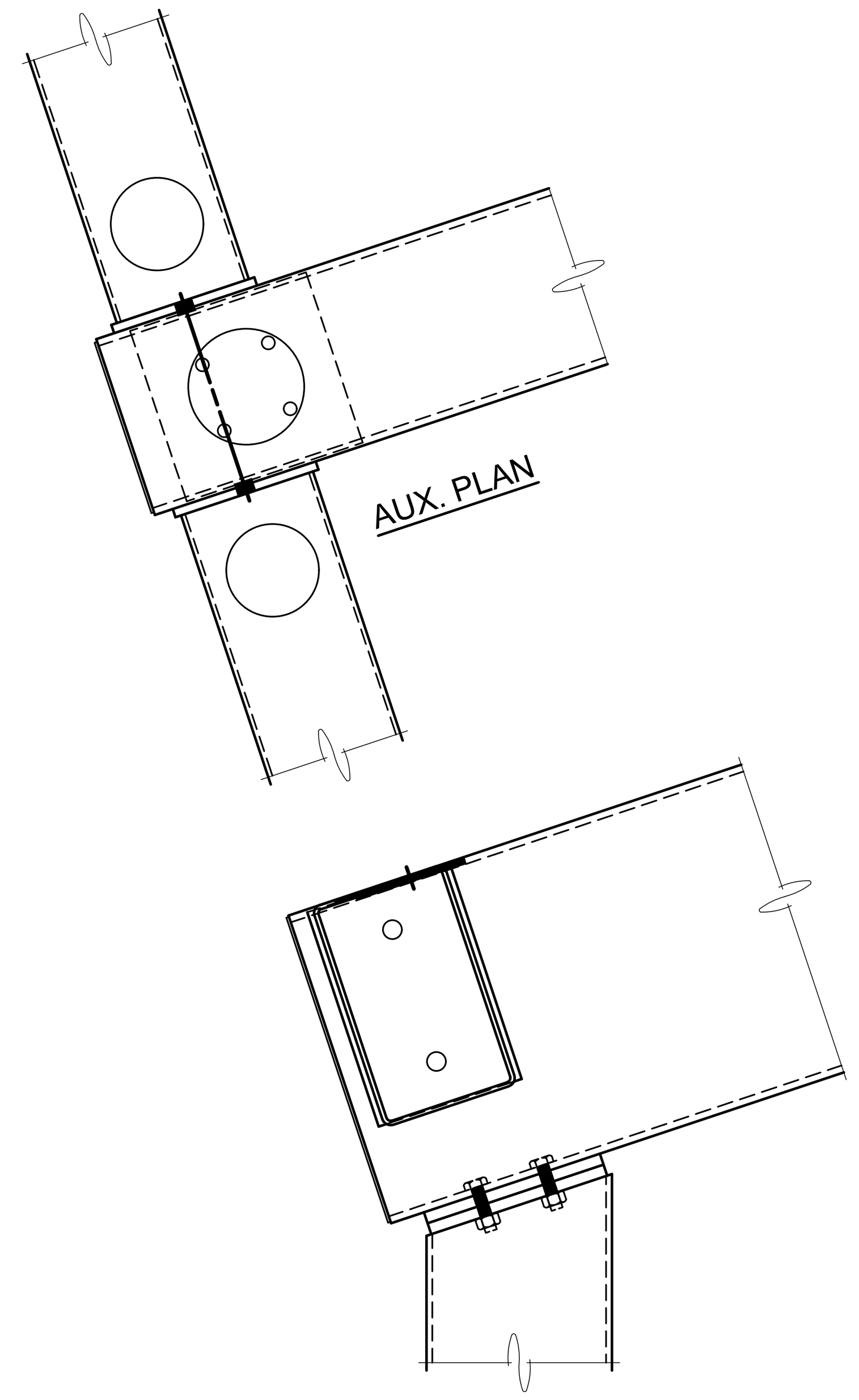


PLAN



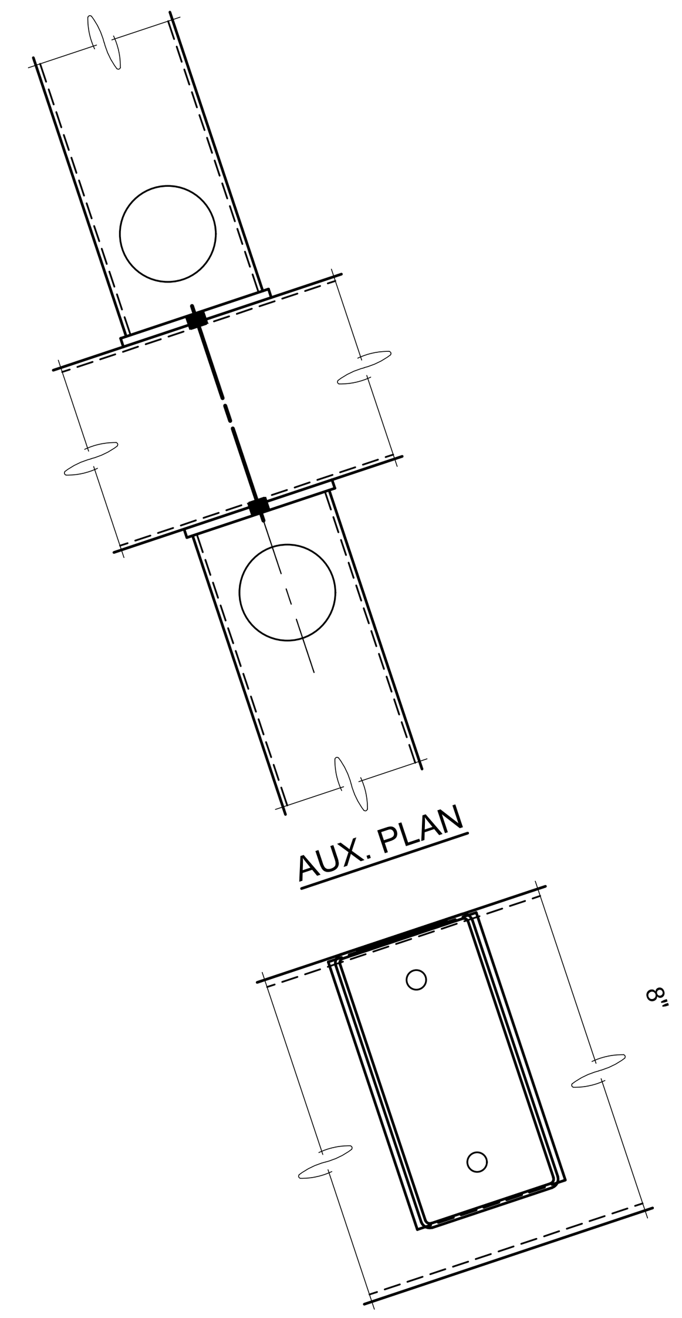
CONN S-1 2-req'd.

- 1 - MK-100 WELDED ASSEMBLY
- 4 - 3/4"Ø x 3" BOLT (WITHOUT NUT)
- 8 - 3/4"Ø x 3 1/2" BOLT (WITHOUT NUT)
- 4 - 3/4"Ø x 3 1/2" BOLT
- 4 - 3/4"Ø HEX NUT



CONN S-2 4-req'd.

- 2 - CPA-1 4 1/2" SQUARE COVERPLATE ASSEMBLY
- 1 - CPA-3 5 1/2" SQUARE COVERPLATE ASSEMBLY
- 4 - 1/2"Ø x 1 3/4" BOLT (WITHOUT NUT)
- 2 - 3/4"Ø x 8" BOLT
- 2 - 3/4"Ø HEX NUT

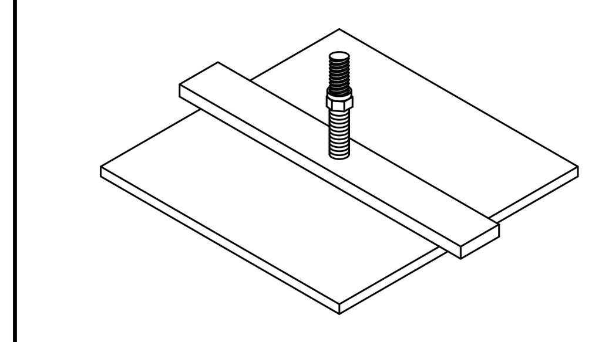


CONN S-3 4-req'd.

- 2 - CPA-1 4 1/2" SQUARE COVERPLATE ASSEMBLY
- 2 - 3/4"Ø x 8" BOLT
- 2 - 3/4"Ø HEX NUT

ERECTOR NOTES:

1. BEFORE ATTACHING COVERPLATE ASSEMBLY, MAKE SURE THAT THE NUBS ON THE BACKER PLATE FACE THE COVER PLATE.
2. LOCK NUT IS PRESET IN SHOP, BUT CAN BE RE-ADJUSTED IN FIELD TO PROVIDE THE NECESSARY TENSION IN SPRING TO OBTAIN ADEQUATE FRICTION BETWEEN PLATE & BEAM FOR ERECTION.
3. PLACE COVERPLATE ASSEMBLIES ON TUBES CAREFULLY SO AS TO NOT SCRATCH THE PAINT ON TUBE.
4. ERECTION OF COVERPLATE ASSEMBLY:
   A. PUT ONE END OF BACKER PLATE THRU ACCESS HOLE AND BEHIND TUBE WALL.
   B. SHIFT ASSEMBLY TO ONE SIDE ONLY ACCESS HOLE SO THAT THE OTHER END OF THE BACKER PLATE CAN SLIDE THRU THE ACCESS HOLE AND BEHIND TUBE WALL. SUGGEST HOLDING A THIN PIECE OF CARDBOARD OR SIMILAR MATERIAL AGAINST TUBE TO PROTECT FROM SCRATCHING WHILE SLIDING COVERPLATE BACK AND FORTH INTO POSITION.
   C. POSITION ASSEMBLY SO THAT IT IS PARALLEL WITH TUBE AND NUBS ON BACKER PLATE SIT INSIDE THE ACCESS HOLE W/ BACKER PLATE ORIENTED AS NEAR VERTICAL AS POSSIBLE.
5. CAULK ALL AROUND COVERPLATE WITH A BEAD OF CLEAR SILICONE CAULK AFTER COVERPLATE IS PROPERLY POSITIONED.



COVERPLATE ASSEMBLY
CPA-1 & CPA-3

HARDWARE PARTS LIST

QUANTITY	LOOSE OR ATTACH	HARDWARE DESCRIPTION	PART NO.	REMARKS
16	L	1/2"Ø x 1 3/4" BOLT	H325G 050 0175	
16	A	1/2"Ø HEX NUT	HN325G 050-13	
8	L	3/4"Ø x 3" BOLT	H325G 075 0300	
24	L	3/4"Ø x 3 1/2" BOLT	H325G 075 0350	
16	L	3/4"Ø x 8" BOLT	H325G 075 0800	
24	A	3/4"Ø HEX NUT	HN325G 075-10	
24	L	3/4"Ø HEX NUT	HN325G 075-10	
16	L	4 1/2" SQ. COVERPLATE ASSEMBLY	CPA-1	
4	L	5 1/2" SQ. COVERPLATE ASSEMBLY	CPA-3	
16	L	3/4"Ø x 24" (F1554 GR. 36) THREADED ROD	·	N.I.C., HDG
16	L	1/4" x 3" SQ. WASHER	·	N.I.C., HDG
64	L	3/4"Ø HEX NUT A563A (ANCHOR & LEVELING)	·	N.I.C., HDG

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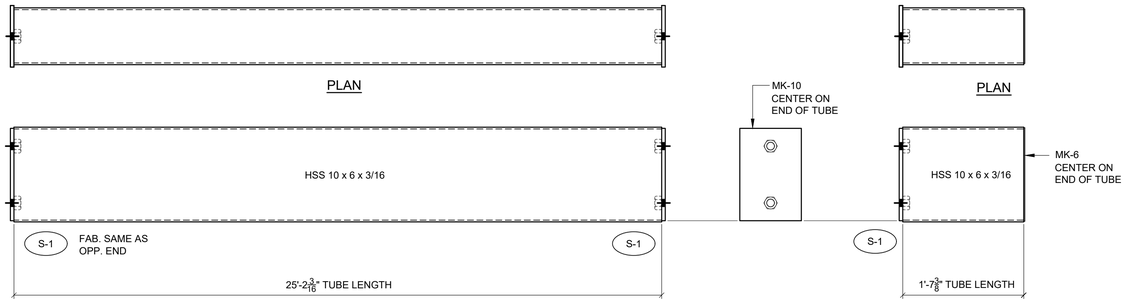
6/16/23

PROJ. NO.:	23-142-A
DRAWN:	DPS 6-16-23
CHK'D:	
REV 1:	
REV 2:	
REV 3:	
REV 4:	
SHOP DWG NO.:	14733R3
EEC JOB NO.:	14733 R
SHEET NO.:	3 OF 6



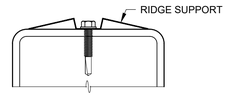
PURLIN P-1 1-REQ'D

ERECTOR NOTE:
SEE DECK SUPPORT CAP DETAIL FOR CAP ATTACHMENT.

PURLIN P-2 2-REQ'D

ERECTOR NOTE:
SEE DECK SUPPORT CAP DETAIL FOR CAP ATTACHMENT.

RS-3 6 REQ'D.

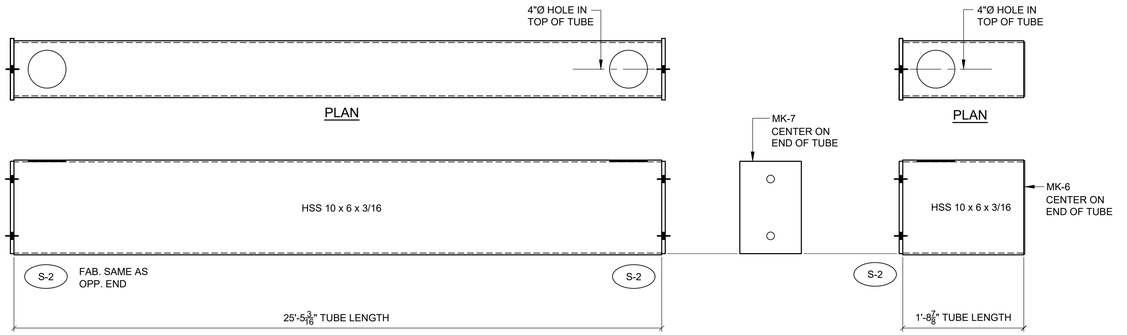


RIDGE ATTACHMENT DETAIL

ERECTOR NOTES:

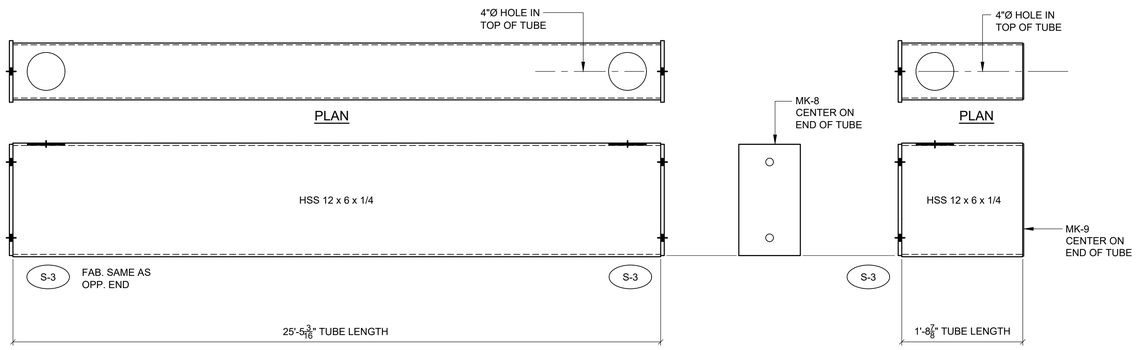
1. CENTER RIDGE SUPPORT ON BEAM AND ATTACH WITH DECK SCREWS @ 16" O.C. AND 4" MAX FROM ENDS PRIOR TO BUILDING ASSEMBLY.
2. RS TO BE CONTINUOUS ON TOP OF BEAM. EXCEPTION: RS TO STOP APPROXIMATELY 1/2" FROM EDGE OF TOP ACCESS HOLE(S). FIELD CUT RS TO LENGTH AS REQ'D.

DECK SUPPORT CAP DETAIL



PURLIN P-3 2-REQ'D

PURLIN P-4 4-REQ'D



PURLIN P-5 2-REQ'D

PURLIN P-6 4-REQ'D

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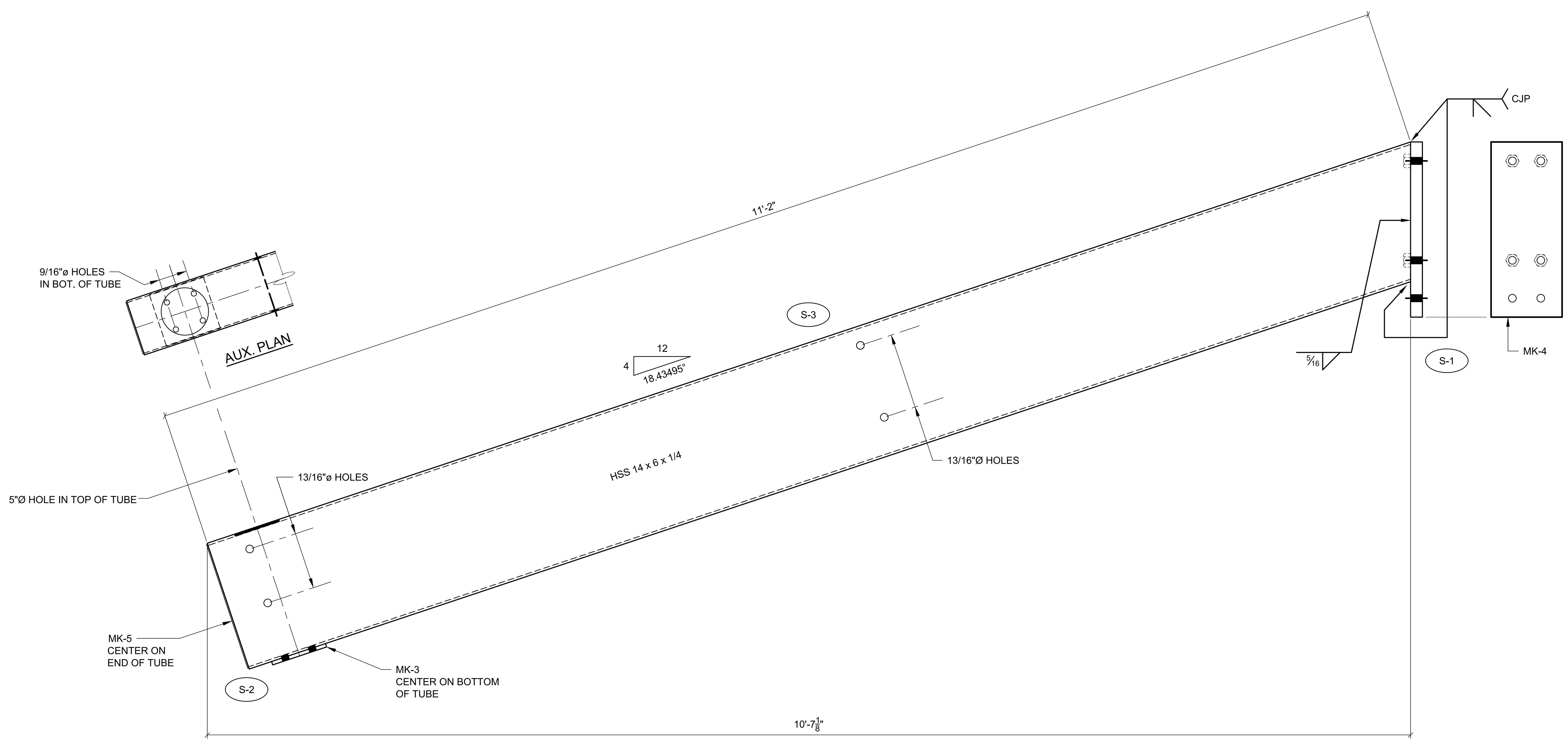
STATE OF CONNECTICUT
DANIEL P. SEYMOUR
No. 29641
PROFESSIONAL ENGINEER
6/16/23

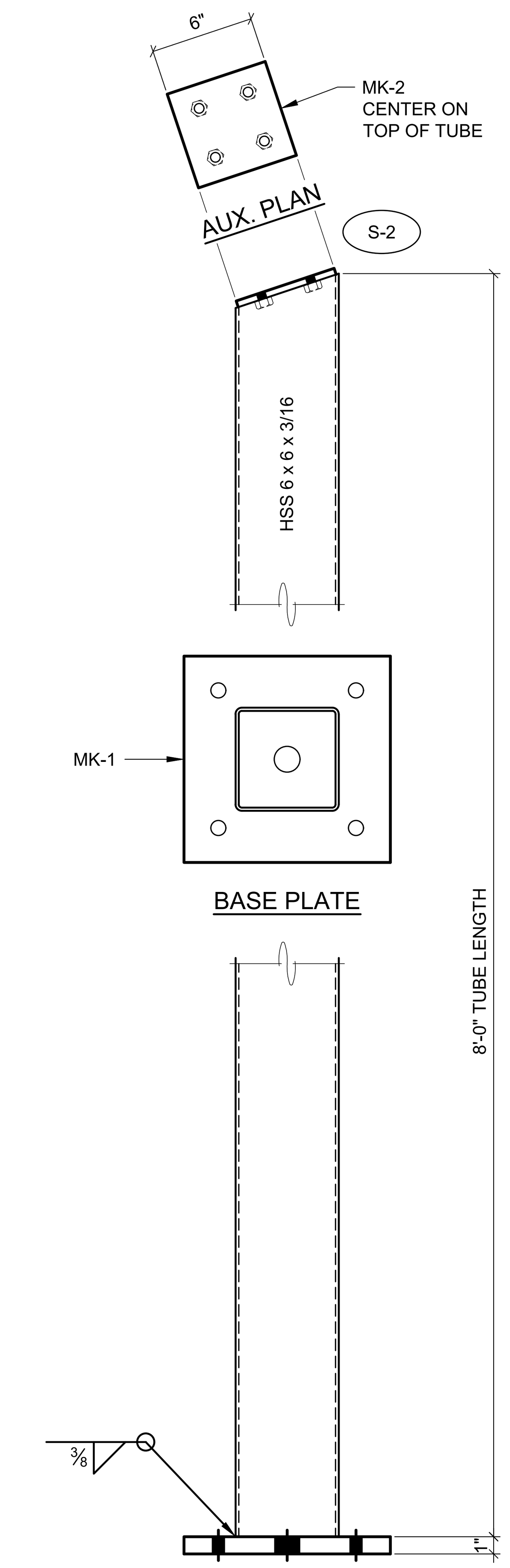
PROJ. NO.: 23-142-A

DRAWN:	DPS	6-16-23
CHK'D:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:		14733R4
EEC JOB NO.:		14733 R

SHEET NO.: 4 OF 6



BEAM B-1 4-req'd.



COLUMN C-1 4-REQ'D

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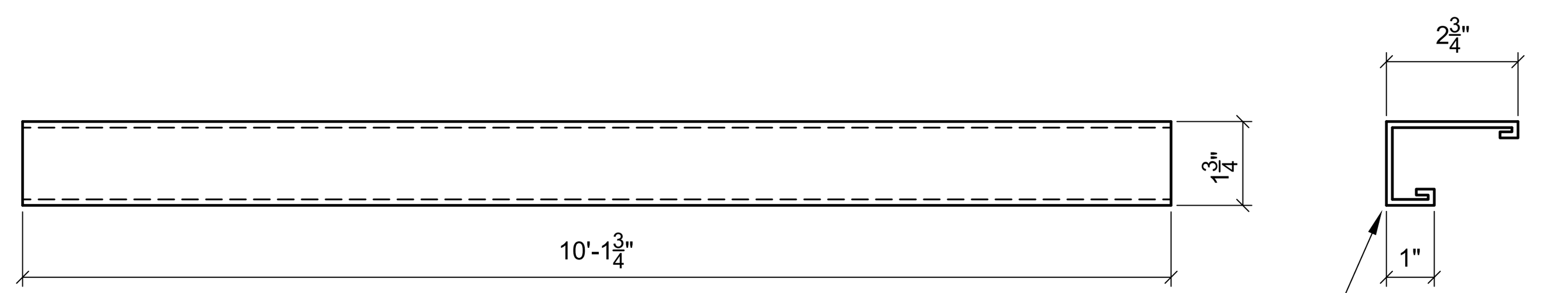
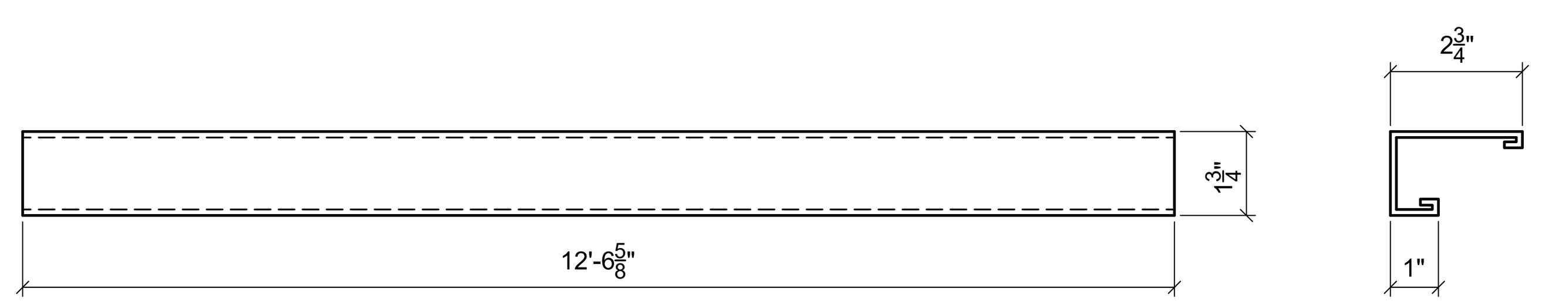
DRAWN: DPS	6-16-23
CHK'D:	
REV 1:	
REV 2:	
REV 3:	
REV 4:	
SHOP DWG NO.:	14733R5
EEC JOB NO.:	14733 R
SHEET NO.:	5 OF 6



METAL DECK END CAP EC-1

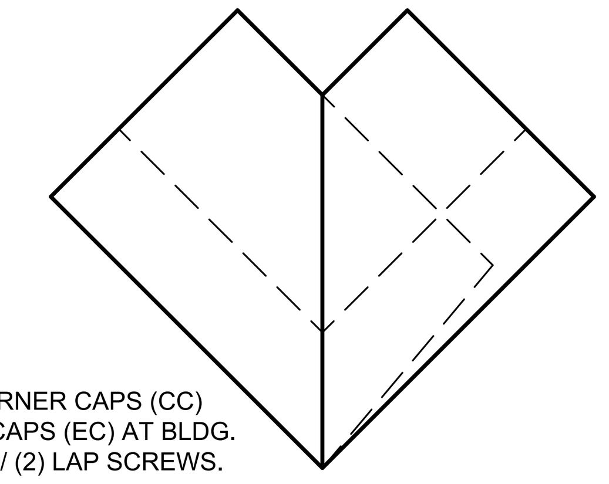
6-REQ'D.



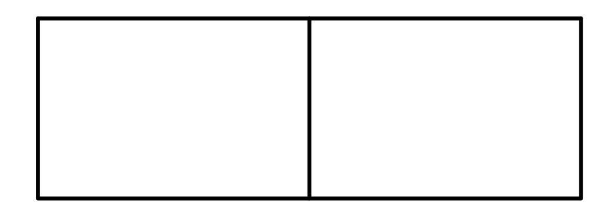
METAL DECK END CAP EC-2

4-REQ'D.

ATTACH CORNER CAPS (CC) OVER END CAPS (EC) AT BLDG. CORNERS w/ (2) LAP SCREWS.



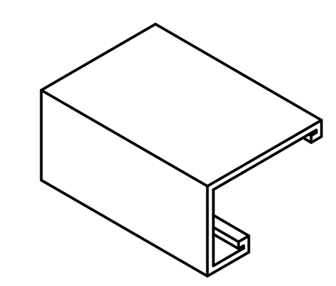
TRUE PLAN



ELEV. VIEW

CORNER CAP CC-11

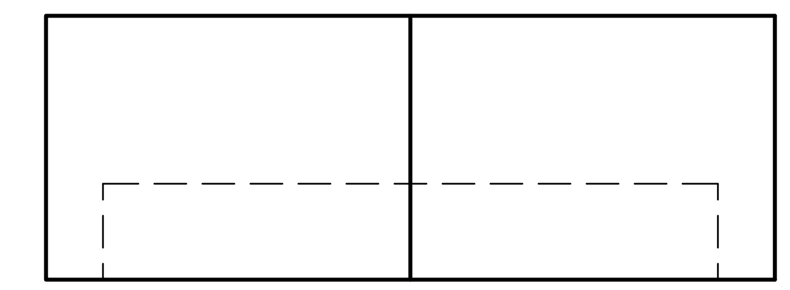
4 REQ'D.



ATTACH SEAM CAPS (SC) OVER END CAP (EC) BUTT SPLICES w/ (2) LAP SCREWS.

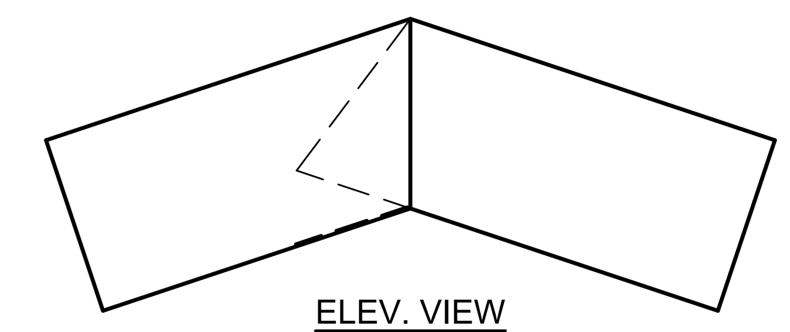
SEAM CAP SC-1

4 REQ'D.



ATTACH PEAK COVER CAP (CC) OVER END CAPS (EC) AT BLDG. GABLE PEAK w/ (2) LAP SCREWS.

TRUE PLAN



ELEV. VIEW

COVER CAP CC-13

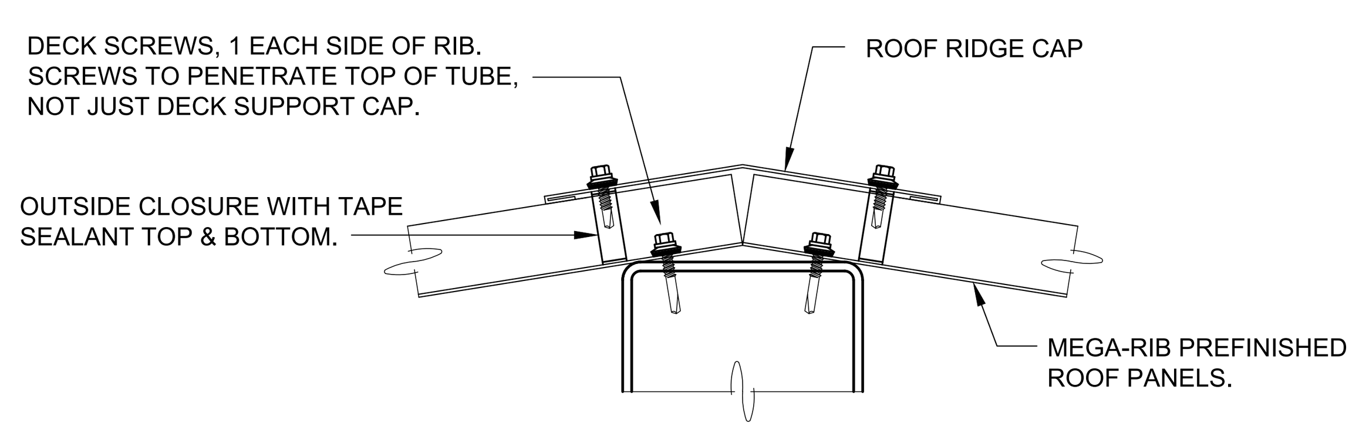
2 REQ'D.

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

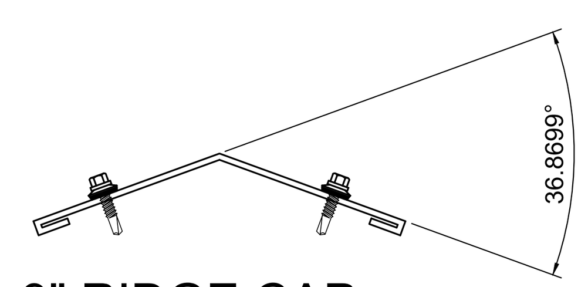
DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.



DECK DETAIL @ RIDGE BEAM

SECTION THRU RIDGE LINE

ERECTOR NOTE:
DECK SUPPORT CAP NOT SHOWN AT RIDGE DETAIL FOR CLARITY.

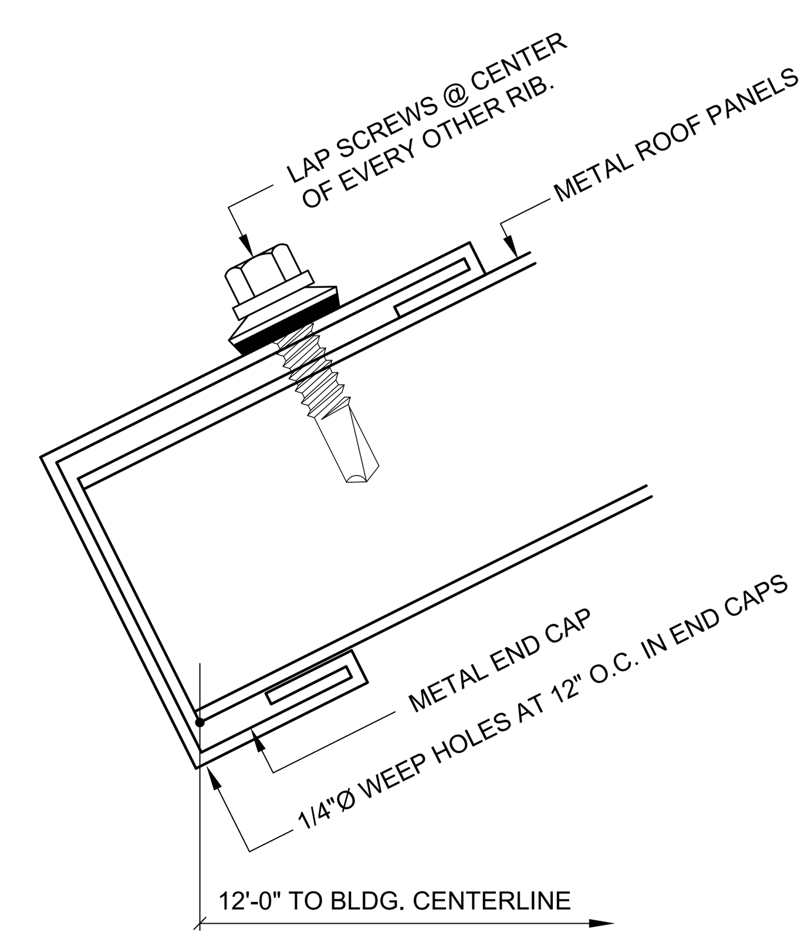


9" RIDGE CAP

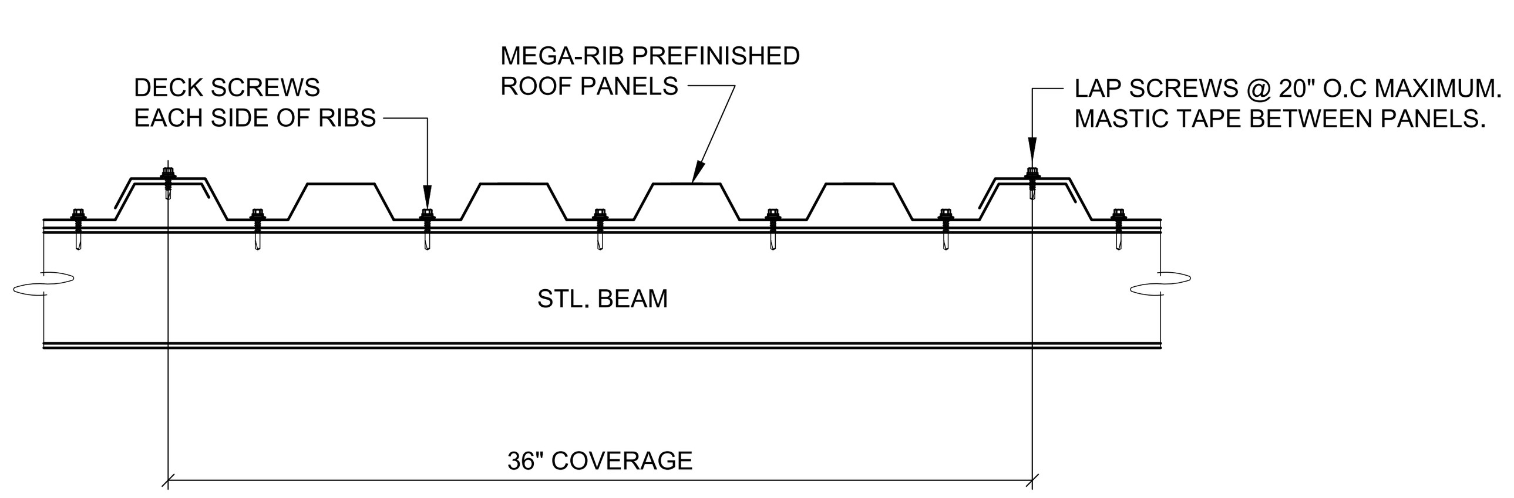
37 LN. FT. REQUIRED

INSTALLATION:
FASTEN RIDGE CAP TO EACH ROOFING PANEL AT EVERY RIB.
(1) LAP SCREW EACH SIDE.

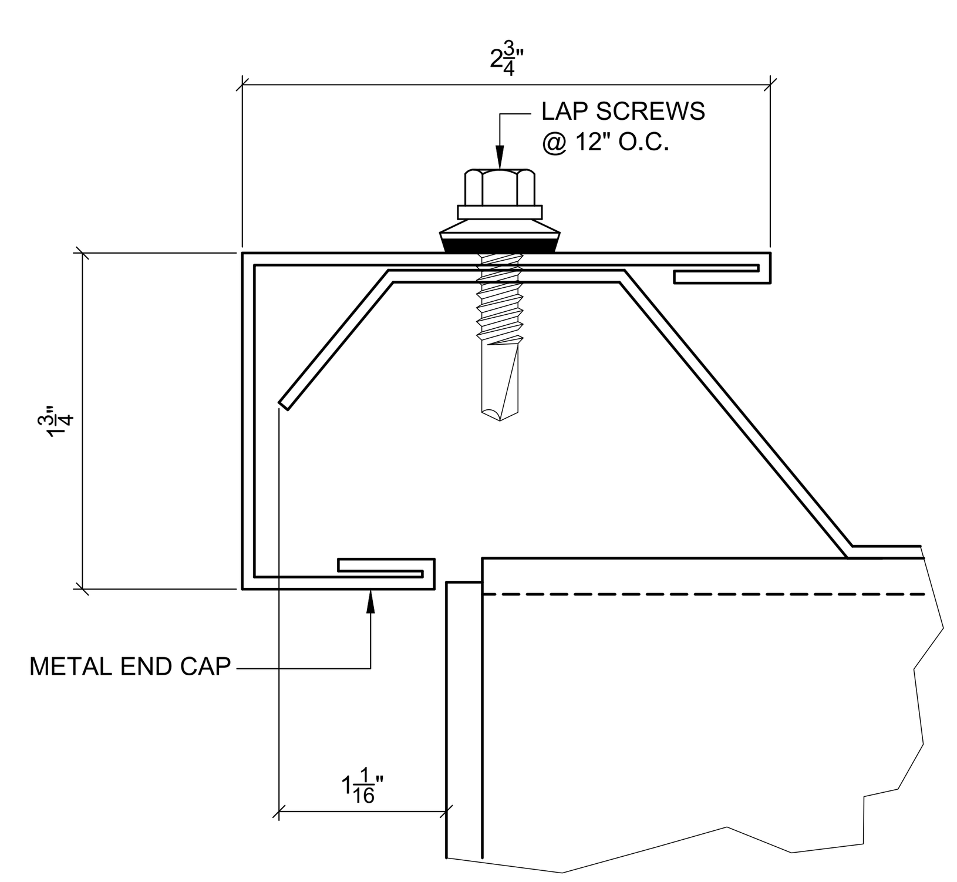
THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.



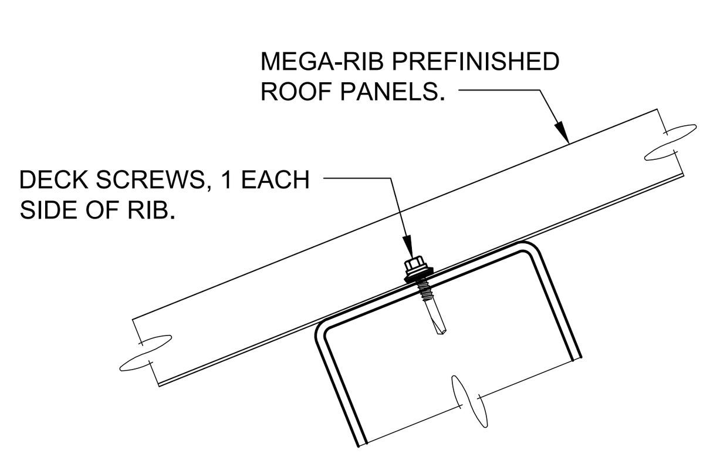
DECK EDGE DETAIL



SECTION THRU ROOFING PANEL @ SUPPORTING MEMBER



SECTION A/6



DECK DETAIL @ EAVE BEAM

SELF-DRILLING SCREW SPECIFICATIONS:
DECK SCREW = #12-24x1 1/4 IMPAX 4.5, 5/16" HEX HEAD
LAP SCREW = 1/4-14x7/8 IMPAX LAP, 5/16" HEX HEAD

TS-G2430-04

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PROJ. NO.:	23-142-A
DRAWN: DPS	6-16-23
CHK'D:	
REV 1:	
REV 2:	
REV 3:	
REV 4:	
SHOP DWG NO.:	14733R6
EEC JOB NO.:	14733 R
SHEET NO.:	6 OF 6