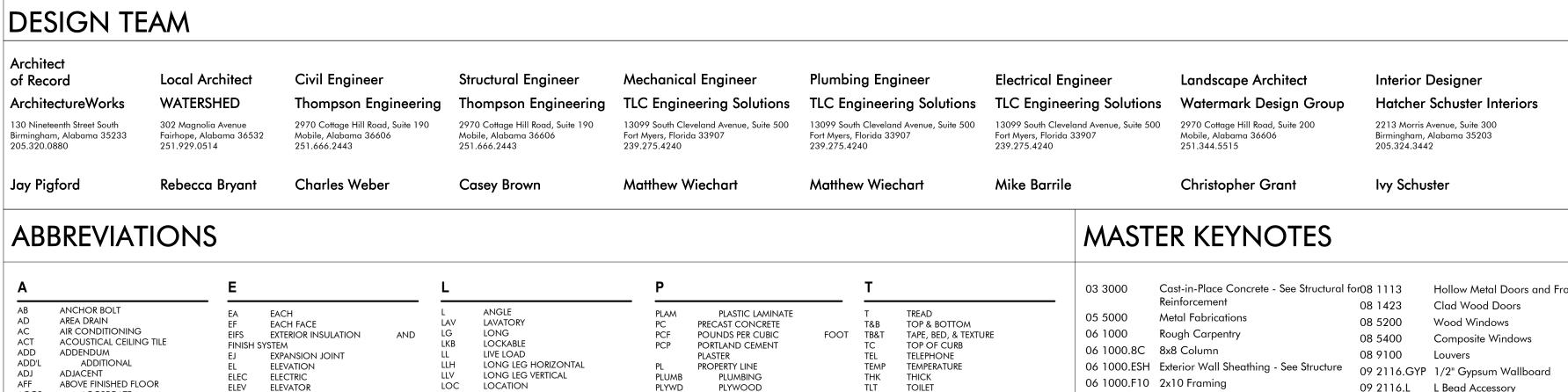
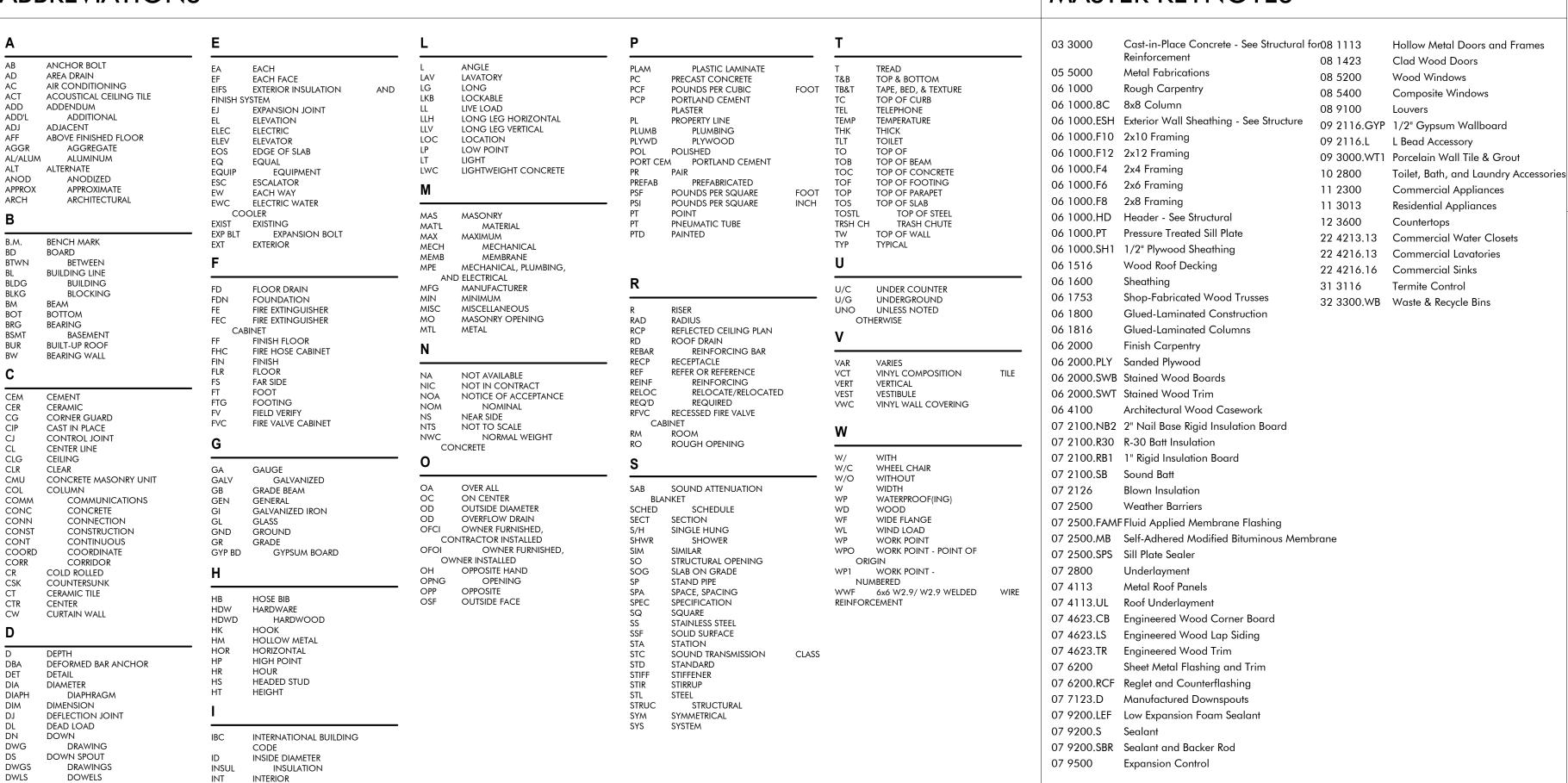


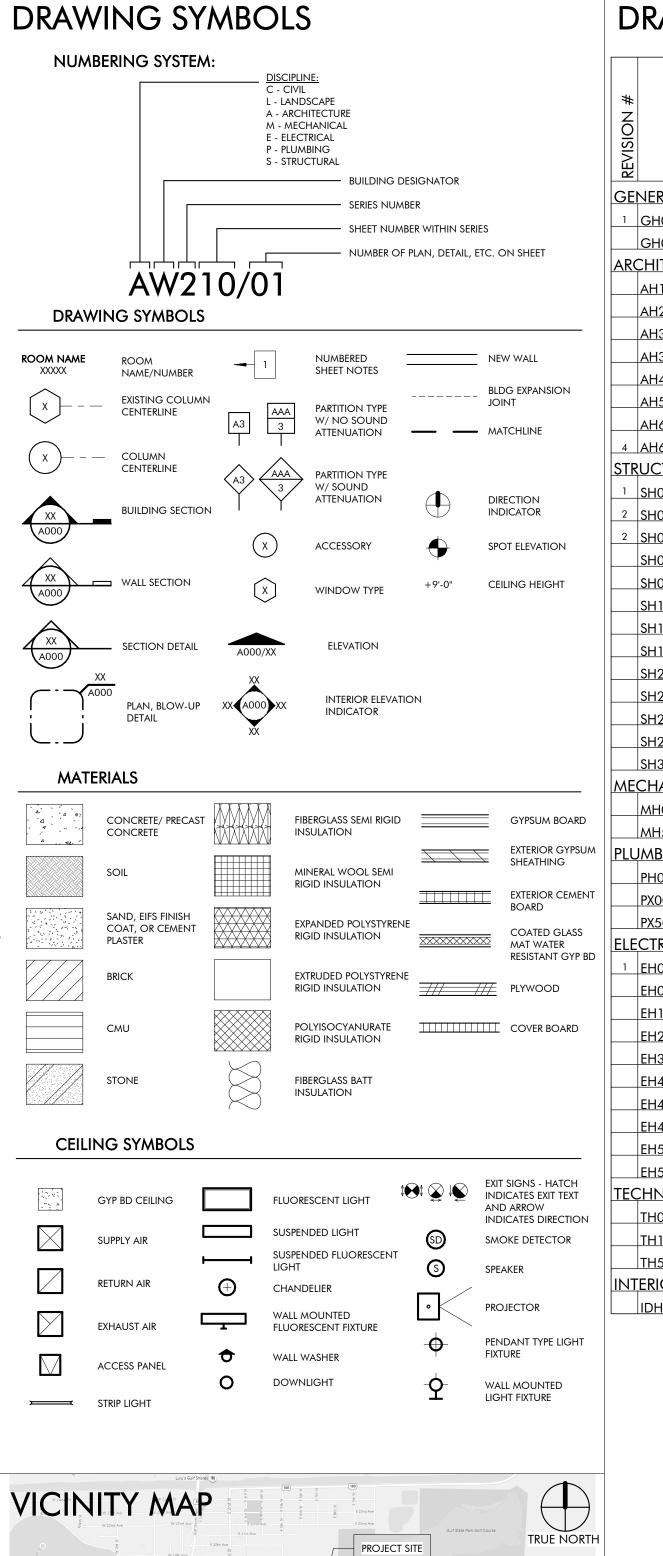
GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY

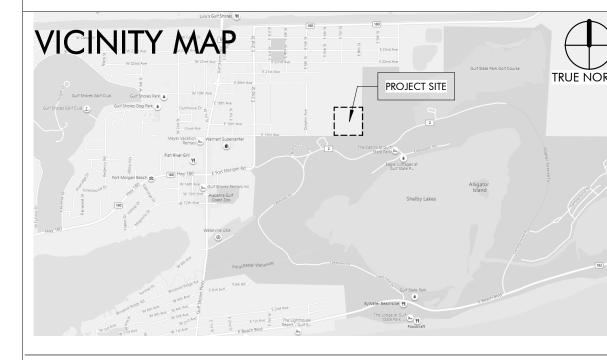
MAKING HUB PACKAGE

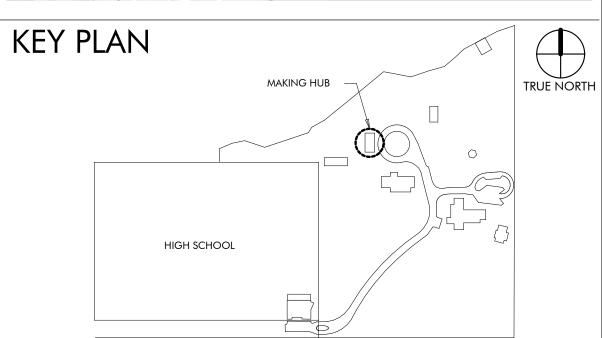
1675 ECO TRAIL, GULF SHORES, ALABAMA

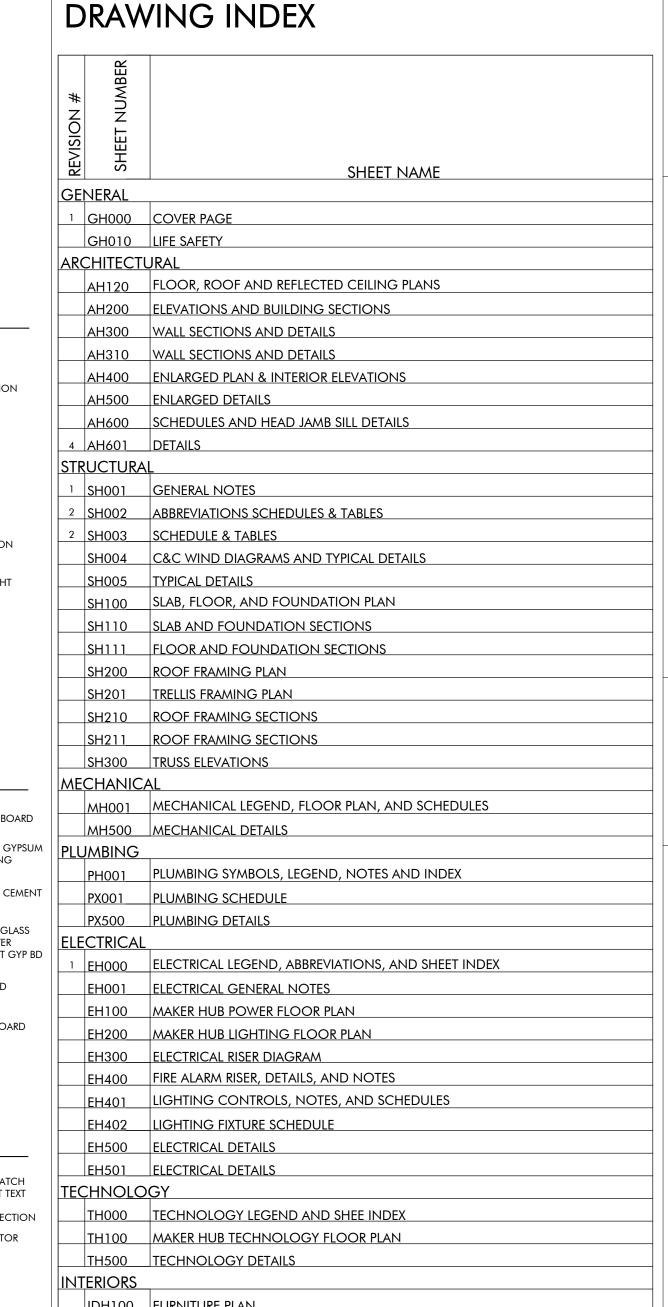


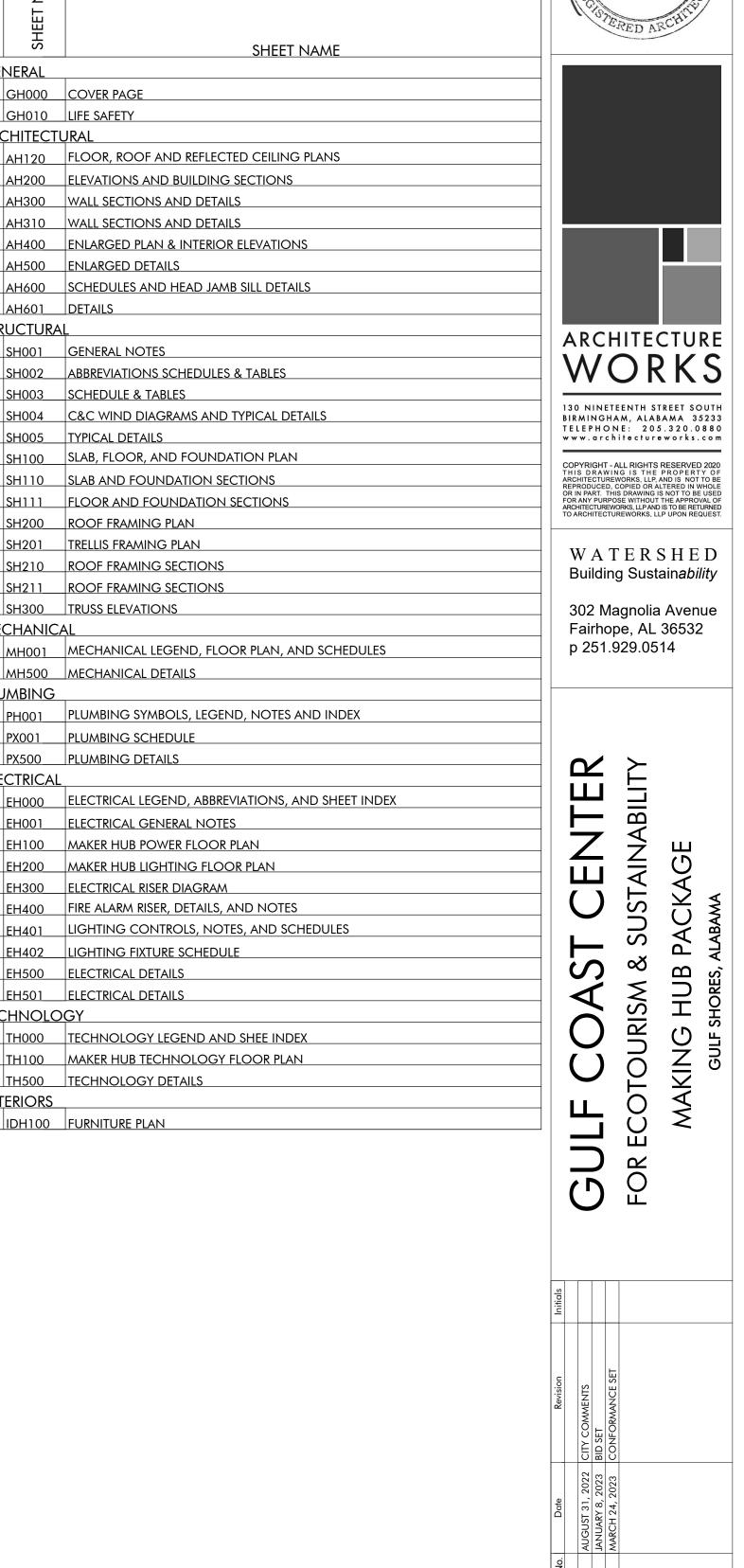


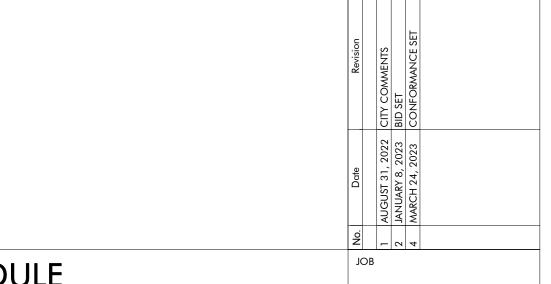


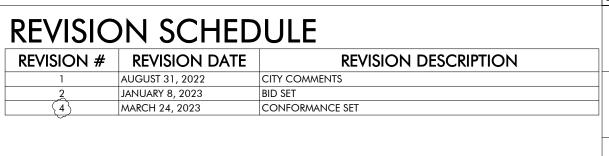












PROJECT STATUS CONFORMANCE SET MARCH 24, 2023

19-028.000

COVER SHEET

GH000

BUILDING ENVELOPE

OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS (IECC TABLE C402.1.3)						
BUILDING ELEMENT	MIN. R-VALUE**	R-VALUE PROVIDED	CODE			
WALLS - WOOD FRAMED	20	20	2015 IECC - TABLE C402.1.3			
ROOF	38	39	2015 IECC - TABLE C402.1.3			
FLOORS - SLAB ON GRADE	NOT REQUIRED	0	2015 IECC - TABLE C402.1.3			
CLIMATE ZONE	2A,	2015 IECC - TABLE 301.1				

PLUMBING FIXTURE SCHEDULE (IBC TABLE 2902.1)

SPACE

15 NET (A)

55'-9"

EXIT CAPACITY:
68"/.2=340P

 $\frac{404 \text{ SF}}{} = 27 \text{ OCC}$

COVERED PORCH $\frac{704 \text{ SF}}{150 \text{ GROSS (B)}} = 5 \text{ OCC}$

 $\frac{\text{UTILITY}}{\frac{62 \text{ SF}}{300 \text{ GROSS}}} = 1 \text{ OCC}$

GRAPHIC SCALE: 1" = 8'

LIFE SAFETY PLAN

MAKER HUB

OCCUPANCY		WATE	R CLOSETS	LAVATORIES	DRINKING	
OCC CLASS	OCCUPANT LOADS	MALE	FEMALE	MALE/FEMALE EACH	FOUNTAIN	OTHER
B BUSINESS	36	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR REMAINDER		1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER	1 PER 100	
		0.72	0.72	0.45 EACH	0.36	1 SERVICE SIN
TOTAL REQ'D	36	0.72	0.72	0.45 EACH	0.36	
TOTAL	PROVIDED	1	1	1	N/A	1 SERVICE SIN

CODE REVIEW REFER SITE & CIVIL PACKAGE FOR ADDITIONAL INFORMATION SUCH AS FIRE

(UNDER ROOF)

DEPARTMENT ACCESS. APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL FIRE CODE 2021 INTERNATIONAL FUEL & GAS CODE 2021 INTERNNATIONAL MECHANICAL CODE

2018 INTERNATIONAL PLUMBING CODE 2020 NATIONAL ELECTRICAL CODE (NFPA 70) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CITY OF GULF SHORES SUPPLEMENTAL REQUIREMENTS

OCCUPANCY CLASSIFICATION: BUSINESS

CONSTRUCTION TYPE: TYPE VB AUTOMATIC SPRINKLER SYSTEM: ALLOWABLE AREAS: B = 9,000 SF(NOT SPRINKLED) ALLOWABLE HEIGHT ABOVE GRADE (VB): B = 40 FT

GENERAL BUILDING HEIGHTS AND AREAS (Chapter 5)

ALLOWABLE NUMBER OF STORIES (VB): B = 2 STORY PROJECT AREAS: TYPES OF CONSTRUCTION (Chapter 6)

STRUCTURAL ELEMENTS CONSIST OF CONCRETE SLAB ON ON GRADE WITH WOOD FRAMED WALLS AND SHOP-FABRICATED WOOD TRUSSES.

NO FIRE-RESISTANT ASSEMBLIES REQUIRED FOR BUILDING ELEMENTS OR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE PER IBC TABLES 601 AND 705.5.

MEANS OF EGRESS (Chapter 10) OCCUPANCIES:

REQ'D EXIT WIDTH:

404 SF (INTERIOR CONDITIONED) GROSS FLOOR AREAS: 766 SF (EXTERIOR COVERED) OCCUPANT LOAD:

REQ'D EXIT AMT: REFER PLAN FOR EXITS AND EXIT ACCESS EXITS PROVIDED: TRAVEL DISTANCE ALLOWED: 200 FT (NONSPRINKLED)

MAX COMMON PATH: 75 FT (NONSPRINKLED) MAX COMMON PATH:

 $36 \times 0.2 = 7.2$ "

ACCESSIBILITY (CHAPTER 11)

ACCESSIBLE ROUTES AND ENTRANCES ARE PROVIDED FOR IN THE DESIGN. REFER SITE & CIVIL PACKAGE FOR ACCESSIBLE PARKING REQUIREMENTS AND LOCATIONS.

REFER ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS FOR ACCESSIBILITY REQUIREMENTS AT RESTROOMS AND OTHER FIXTURES AND EQUIPMENT.

PLUMBING FIXTURES (CHAPTER 29)

REFER PLUMBING FIXTURE SCHEDULE THIS SHEET FOR REQUIREMENTS AT THIS BUILDING.

FAMILY-ASSISTED RESTROOM PROVIDED AT THE WELCOME HUB. REFER SITE & CIVIL PACKAGE FOR PLUMBING REQUIREMENTS FOR ENTIRE

BUILDING ENVELOPE

REFER TO PROVIDED TABLE ON THIS SHEET.



130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

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WATERSHED Building Sustainability

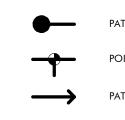
302 Magnolia Avenue Fairhope, AL 36532

p 251.929.0514

CAMPUS AND LOCATIONS OF PROVIDED FACILITIES.

FAINABILITY

SHEET SPECIFIC NOTES





1/8" = 1'-0"



GH010

19-028.000

CONFORMANCE SET

MARCH 24, 2023

CODE REVIEW & LIFE

PROJECT STATUS

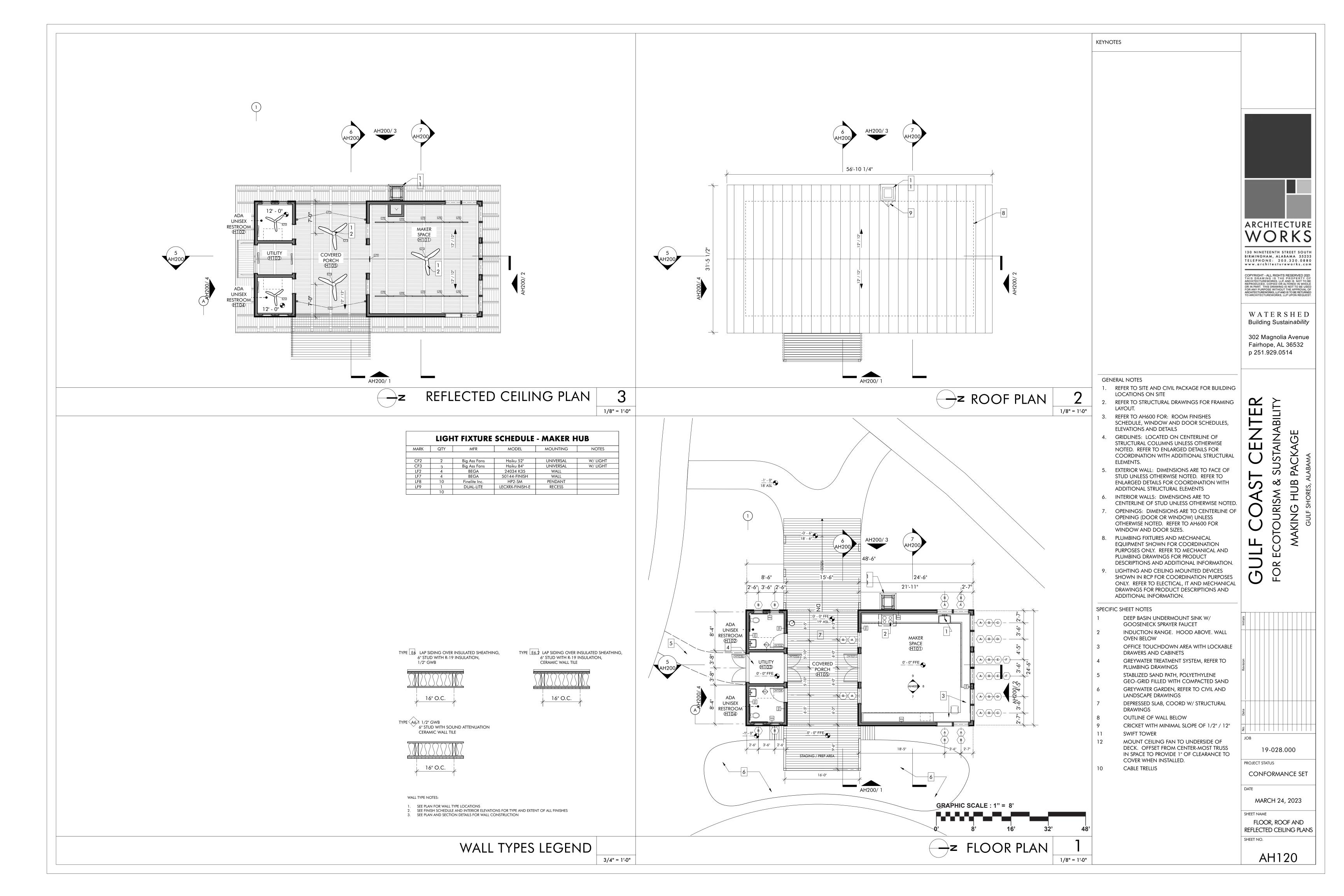
1-HOUR FIRE BARRIER OR FIRE RESISTANT ASSEMBLY

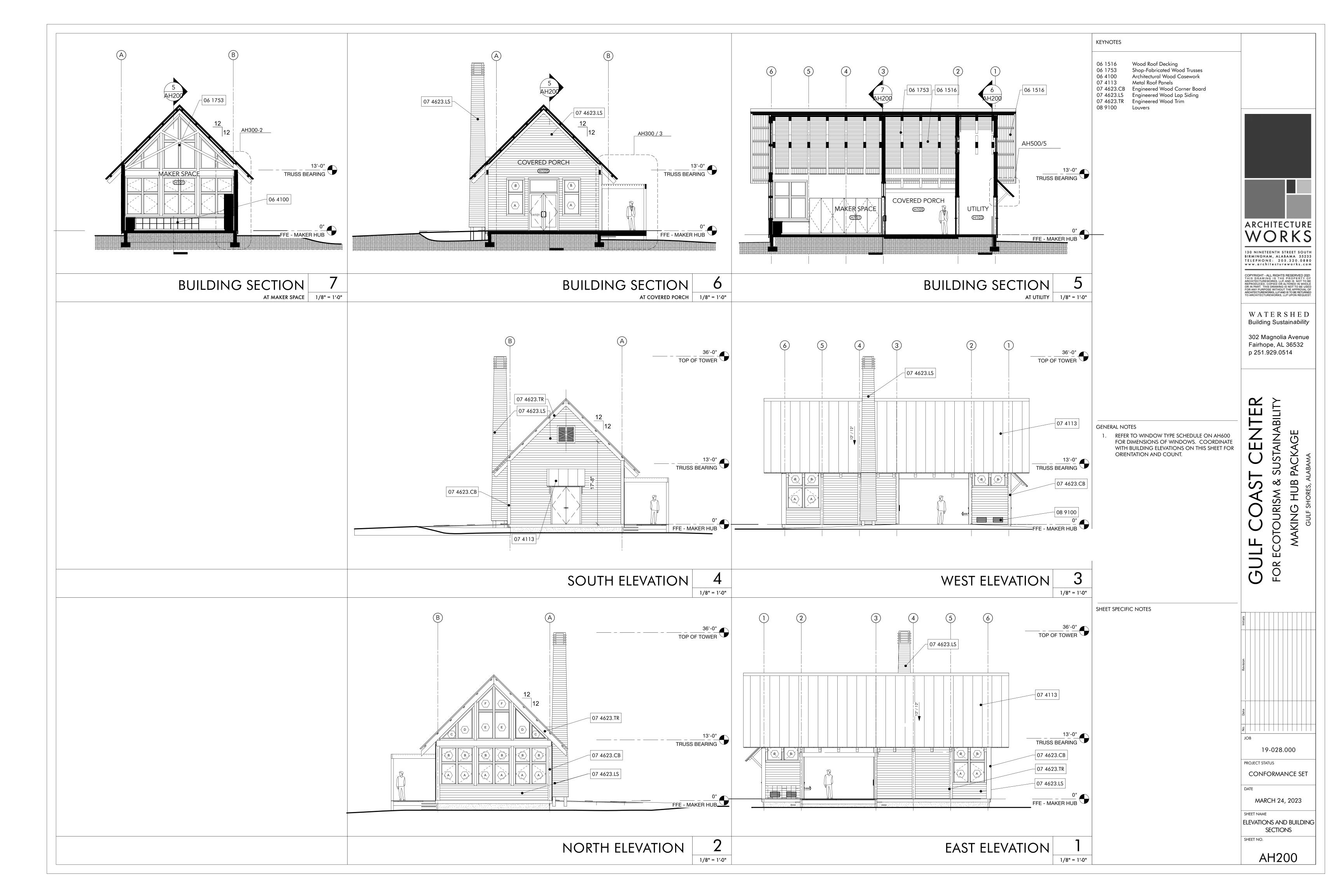
GRAPHIC LEGEND PATH OF TRAVEL BEGINNING POINT OF TRAVEL DIVERGENCE

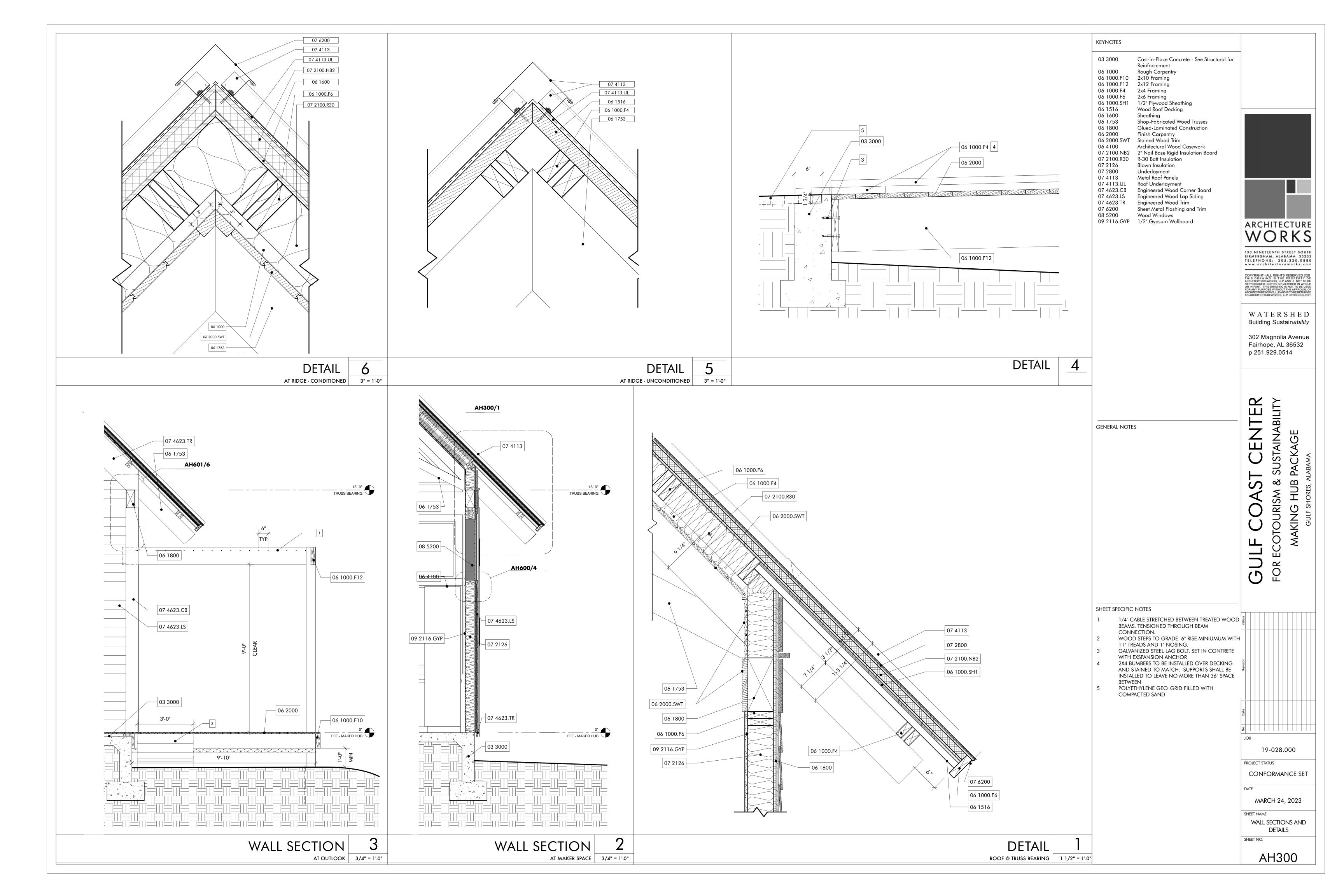
PATH DISCHARGE TO PUBLIC RIGHT OF WAY TOTAL EGRESS TRAVEL DISTANCE

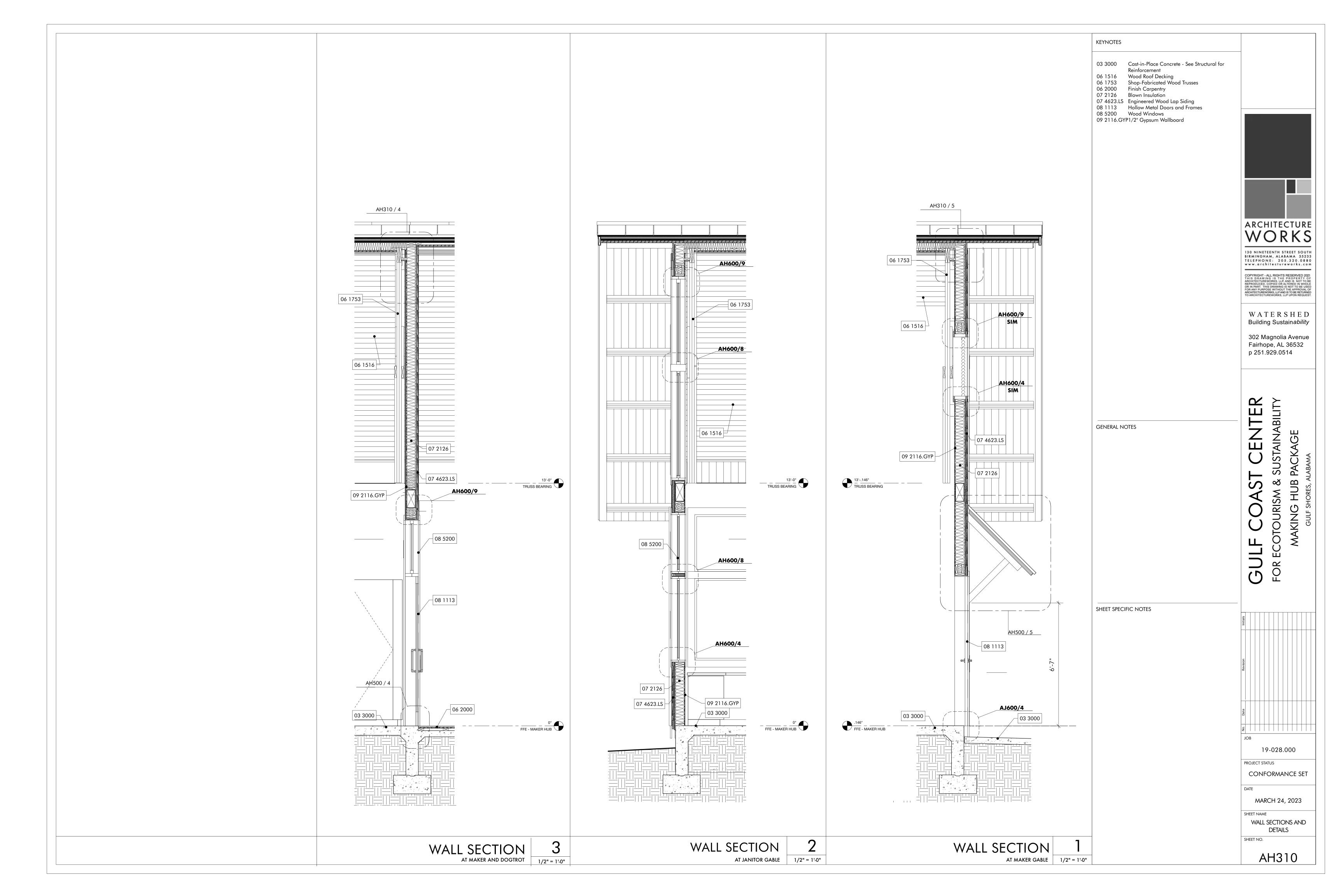
112'-7" COMMON PATH OF EGRESS TRAVEL DISTANCE EXIT OR EXIT ACCESS

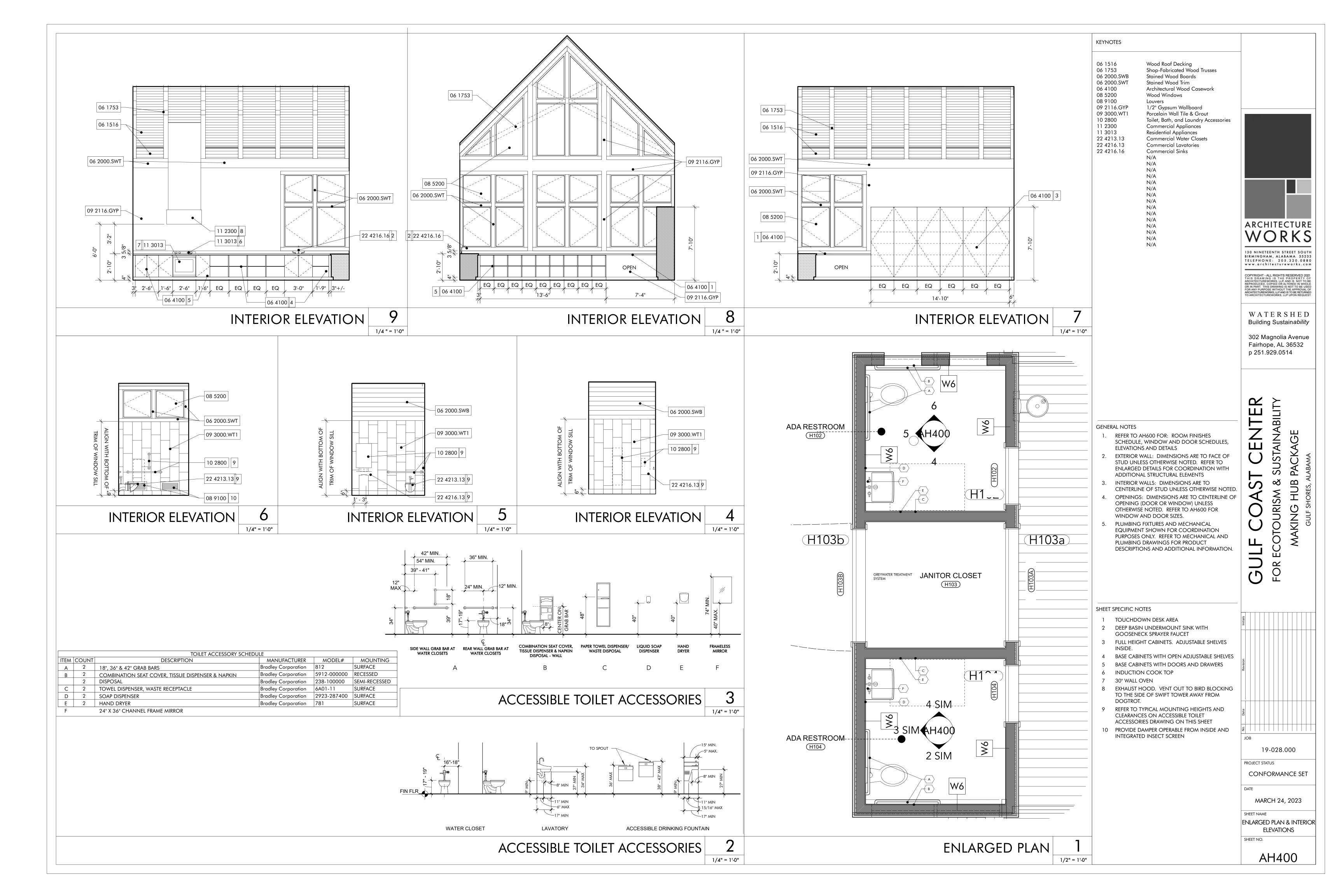
FIRE EXTINGUISHER LOCATION

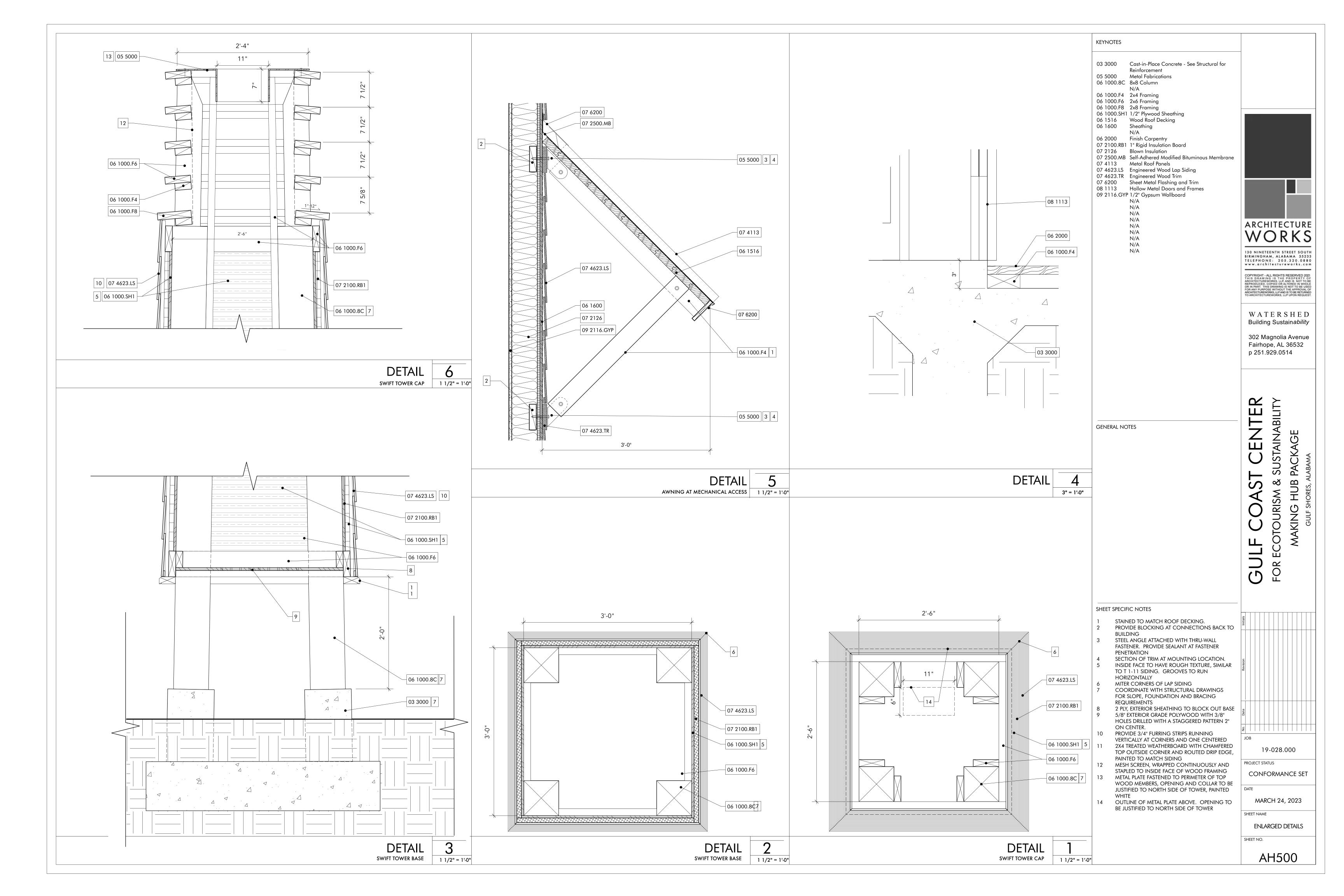


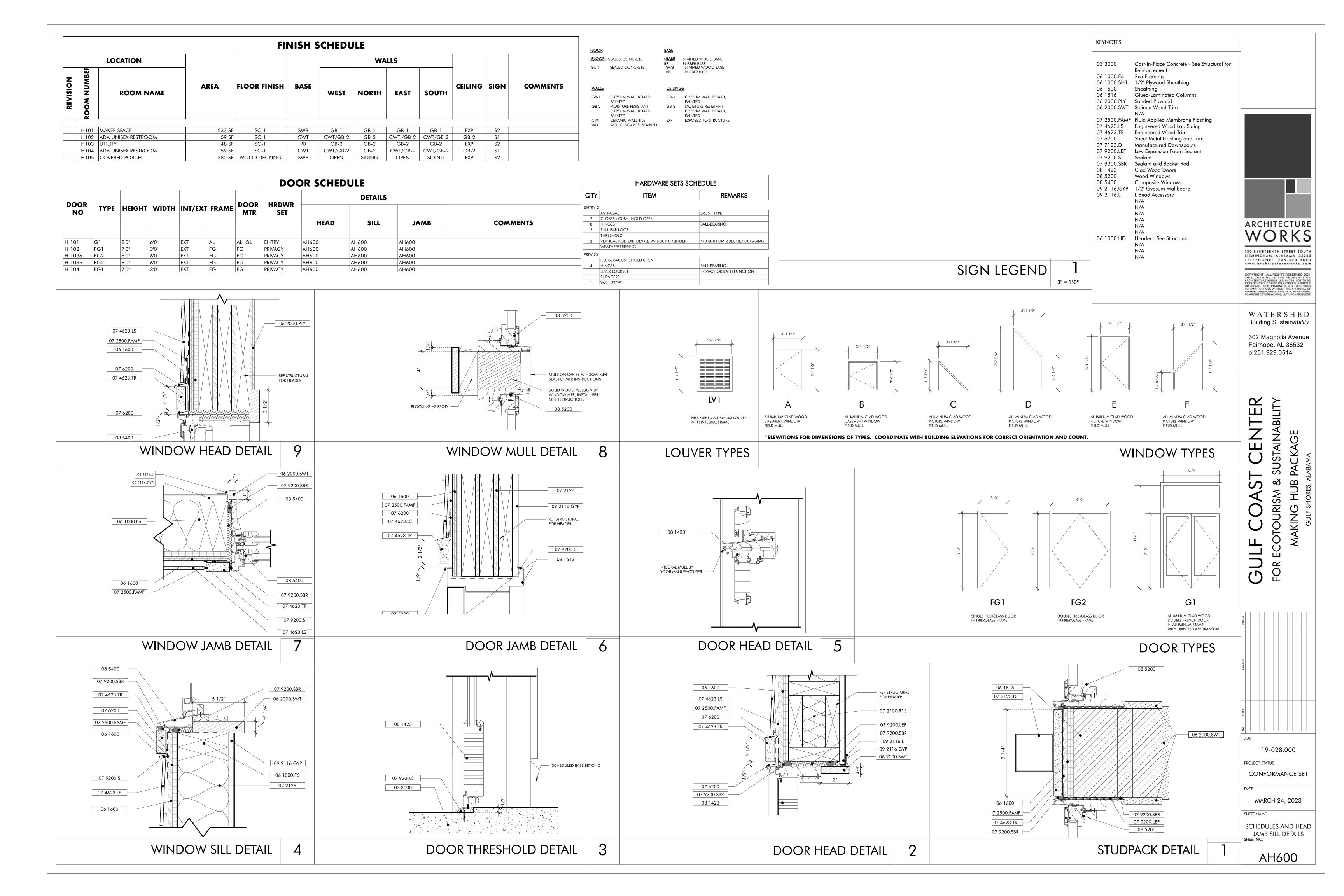


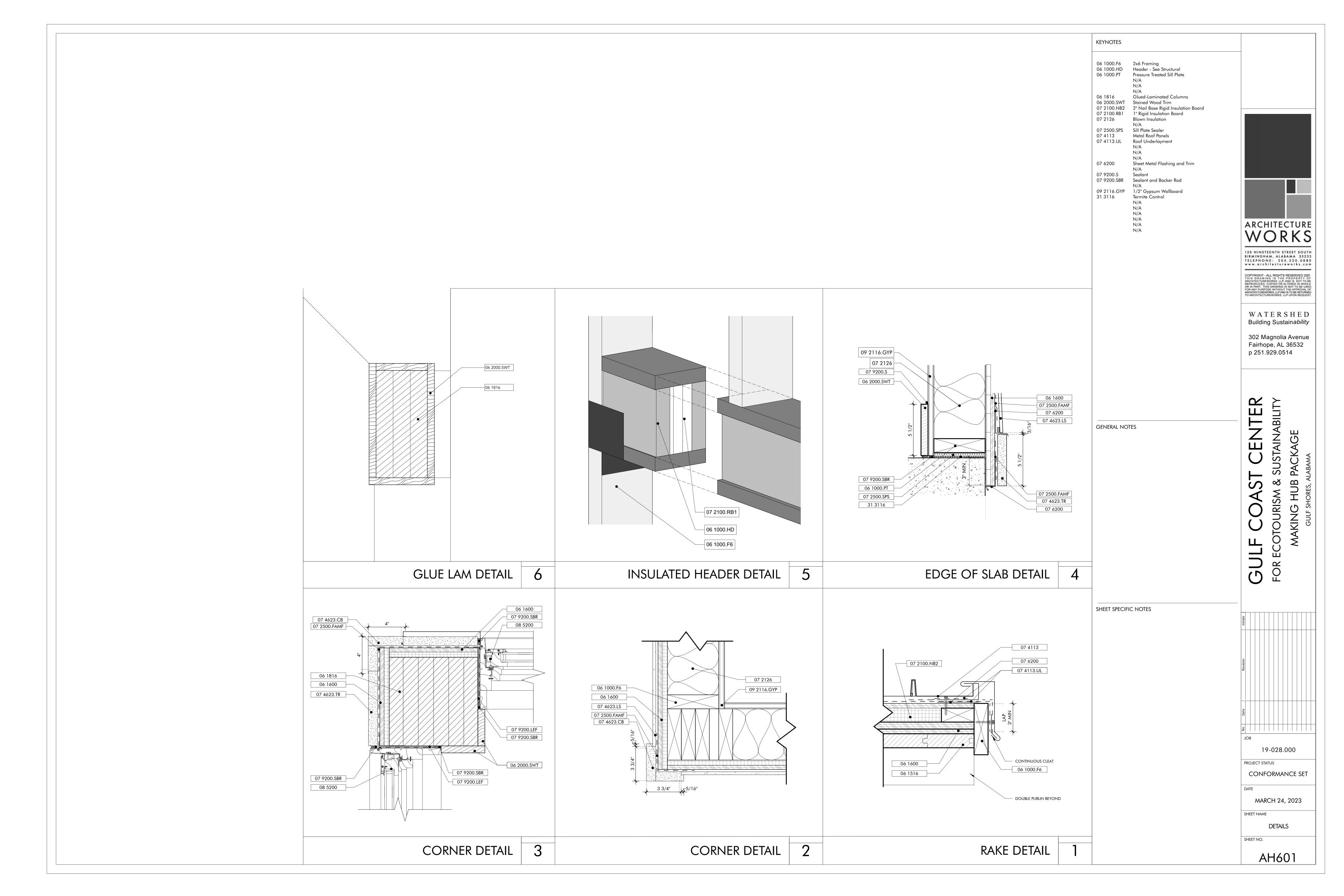












GENERAL REQUIREMENTS:

- THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. ALL CONSTRUCTION SHALL CONFORM TO THE EDITION OF THE INTERNATIONAL BUILDING CODE REFERENCED. REFERENCE TO OTHER SPECIFICATIONS OR CODES SHALL MEAN THE VERSION INDICATED IN THE INTERNATIONAL BUILDING CODE.
- 2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL VERIFY SITE CONDITIONS AND COORDINATE STRUCTURAL DIMENSIONS, ELEVATIONS AND SECTIONS WITH ARCHITECTURAL DIMENSIONS, ELEVATIONS, AND SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO THE FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS
- 4. STRUCTURAL DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY AND SHALL APPLY FOR LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN. IF THERE IS A QUESTION REGARDING THE APPLICABILITY OF A DETAIL, CONTACT THE ARCHITECT/ENGINEER IN WRITING REQUESTING CLARIFICATION.
- 5. COORDINATE AND VERIFY ALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. STRUCTURAL DRAWINGS ONLY SHOW OPENINGS RELATIVE TO THE STRUCTURE.
- 6. COORDINATE ALL LIMITS AND DEPTHS OF DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS AND SCHEDULES. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC. COORDINATE FLOOR JOINTS WITH ARCHITECTURAL FLOOR FINISHES.
- 7. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, CHANGED OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- 8. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS. SEND A WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT/ENGINEER FOR DIMENSIONS NOT PROVIDED.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
 THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY
- IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE ENGINEER WILL NOT ADVISE ON OR ISSUE DIRECTION RELATED TO SAFETY REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE OSHA REGULATIONS.
- RESPONSIBILITY TO FOLLOW ALL APPLICABLE OSHA REGULATIONS.

 11. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.
- . WHERE SPECIFIED, POST INSTALLED ANCHORING SYSTEMS SUCH AS MANUFACTURED BY SIMPSON OR HILTI, SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SPECIAL ATTENTION SHALL BE GIVEN TO THE DRILLING, CLEANING, AND PREPARATION OF HOLES. WHERE ADHESIVE ANCHORS ARE SHOWN, SPECIAL ATTENTION SHALL BE GIVEN TO THE REQUIRED MIXING, APPLICATION, AND CURING TIME OF THE ADHESIVE SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY, OR OTHERWISE INTERFERE WITH, INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATIONS OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD DAMAGE TO THE NEW WORK (e.g. DIFFERENTIAL SETTLEMENT).

DESIGN CRITERIA

- GENERAL BUILDING CODE:
 INTERNATIONAL BUILDING
- INTERNATIONAL BUILDING CODE, IBC 2021 EDITION. ALL CODES BELOW ARE THE EDITION REFERENCED IN THE IBC.
 DESIGN LOAD CRITERIA:
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
- CONCRETE.

 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.

 CONCRETE.
- STRUCTURAL STEEL:
 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE
 OF STEEL CONSTRUCTION, AISC 360.
 TIMBER:
- 1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL, NDS.

DESIGN LOADS:

DESIGN DEAD LOAD IS ACTUAL WEIGHT OF THE STRUCTURE. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

LIVE LOADS (PSF):

	ა.	FLOOR	100
3.	LIVE LOAD RI	EDUCTIONS HAVE BEEN APPLIED IN ACC	ORDANCE WITH THE
	BUILDING CO	DE WHEN PERMITTED.	
4.	SNOW LOADS	S (PSF):	
	1.	GROUND SNOW LOAD (Pg)	0.0
5.	WIND LOADS	:	
	1.	DESIGN WIND SPEED (V)	160 MPH
	2.	ALLOWABLE WIND SPEED (Vasd)	124 MPH
	3.	RISK CATEGORY	<u>II</u>
	4.	EXPOSURE CATEGORY	C

STAIRS, EXIT WAYS

6. PRESSURE COEFFICIENT (PAR. ENCLOSED) +/- 0.55
7. PRESSURE COEFFICIENT (OPEN) +/- 0.00
6. SEE DRAWINGS FOR EXTERIOR COMPONENT AND CLADDING WIND PRESSURES, EDGE STRIP WIDTH "a", AND PRESURE COEFFICIENT USED.

PRESSURE COEFFICIENT (ENCLOSED)

THIS STRUCTURE IS LOCATED WITHIN A WIND BORNE DEBRIS REGION AND REQUIRES IMPACT RESISTANT GLAZING.
SEISMIC LOADS:

1. RISK CATEGORY II
2. IMPORTANCE FACTOR (Ie) 1.0
3. SOIL SITE CLASS D
4. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
1. Ss = 0.083
2. S1 = 0.054
5. DESIGN SPECTRAL RESPONSE ACCELERATIONS:
1. Sds = 0.088
2. Sd1 = 0.087

 6.
 SEISMIC DESIGN CATEGORY
 B

 7.
 SEISMIC RESPONSE COEFFICIENT (Cs)
 0.059

 8.
 RESPONSE MODIFICATION FACTOR (R)
 1.5

 9.
 DESIGN BASE SHEAR
 0.059W

 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
BASIC SEISMIC-FORCE-RESISTING SYSTEM: G6 - CANTILEVERED COLUMN
SYSTEMS DETAILED TO CONFORM TO THE REQUIREMENTS FOR TIMBER FRAMES.

SPECIAL INSPECTIONS:

- 1. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. AN APPROVED SPECIAL INSPECTOR WITH QUALIFICATIONS SATISFACTORY TO THE BUILDING OFFICIAL SHALL PERFORM THE REQUIRED SPECIAL TESTS AND
- 2. OBSERVATION BY THE STRUCTURAL ENGINEER'S OFFICE DOES NOT REPLACE TESTING AND INSPECTIONS BY THE TESTING AGENCY OR THE SPECIAL INSPECTOR.
- THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. THE COSTS OF OTHER INSPECTIONS AND TESTING SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE PAID FOR BY THE CONTRACTOR.
 THE FOLLOWING DOCUMENTS HAVE BEEN PREPARED FOR THIS PROJECT AS A
- 4. THE FOLLOWING DOCUMENTS HAVE BEEN PREPARED FOR THIS PROJECT AS PART OF THESE CONSTRUCTION DOCUMENTS:

 1. STATEMENT OF SPECIAL INSPECTIONS
- SCHEDULE OF SPECIAL INSPECTIONS
 CONTRACTOR AND SUBCONTRACTORS ENGAGED IN CONSTRUCTION OF MAIN WIND FORCE OR SEISMIC FORCE RESISTING SYSTEMS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER IN ACCORDANCE WITH THE PROVISIONS OF CHARTER 17 OF THE IRC
- ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE IBC.

 6. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER
- SCHEDULING OF PERSONNEL.

 7. ALL REPORTS AND SHOP CERTIFICATIONS OF SPECIAL INSPECTIONS TO BE PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP SHALL BE SUBMITTED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING THESE REPORTS TO THE SPECIAL INSPECTOR, THE ARCHITECT,
- AND THE STRUCTURAL ENGINEER IN A TIMELY MANNER.

 8. THE SPECIAL INSPECTOR SHALL PREPARE THE REQUIRED QUALITY ASSURANCE PLANS AND SUBMIT THE PLAN TO THE BUILDING OFFICIAL AND TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 9. ALL SPECIAL INSPECTION REPORTS SHALL BE PREPARED BY AND BEAR THE SEAL OF THE SPECIAL INSPECTOR AND ALL REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE STRUCTURAL ENGINEER. THE FREQUENCY OF REPORTS SHALL BE AS AGREED UPON BY THE BUILDING OFFICIAL.
- 10. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL NONCONFORMING ITEMS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER.
- 11. THE SPECIAL INSPECTOR, UPON COMPLETION OF THE WORK AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, SHALL SUBMIT A SIGNED AND SEALED FINAL REPORT DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES IN THE PRIOR REPORTS.

SHOP DRAWINGS AND SUBMITTALS:

- 1. THE USE OR REPRODUCTION OF THE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS NOT PERMITTED.
- 2. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
- 3. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES.
- 4. SHOP DRAWINGS AND CALCULATIONS SUBMITTED AS PART OF A DELEGATED DESIGN SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF THE PROJECT.
- HARDCOPY SHOP DRAWING SUBMITTALS: SUBMIT ALL SHOP DRAWINGS ON THREE PRINTS ONLY. ONE PRINT WILL BE RETURNED TO THE CONTRACTOR. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED. IF ADDITIONAL PRINTS ARE SUBMITTED, THEY WILL BE RETURNED LINMARKED.
- 6. ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
- 7. RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES.
- 8. SHOP DRAWINGS: SEE THE RELATED MATERIAL SECTION FOR THE REQUIRED SUBMITTALS AND SHOP DRAWINGS.

SOILS, SLABS, WALLS, AND SHALLOW FOUNDATIONS:

- 3. THE FOUNDATION AND SLAB ON GRADE DESIGN IS BASED ON CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY THOMPSON ENGINEERING TITLED "GULF COAST CENTER FOR ECOTOURISM AND SUSTAINABILITY PROJECT, PROJECT NO.20-1101-0049, DATED MARCH 22, 2021". THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS.
- 4. MAX ALLOWABLE BEARING PER GEOTECHNICAL REPORT (PSF):
- 1. <u>UNLESS NOTED OTHERWISE</u> 2000

 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH THE PRESSURES NOTED, THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS, AND THE GEOTECHNICAL REPORT.
- 6. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
 7. COMPACTED FILL SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL
- 8. WHEN EXCAVATIONS APPROACH THE GROUND WATER TABLE, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2' BELOW THE EXCAVATION DURING CONSTRUCTION.
- CONTRACTOR SHALL FOLLOW THE SITE WORK AND SUBGRADE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT.
- 10. EARTH SUPPORTED SLAB:
 1. SUBGRADE MODUL
- SUBGRADE MODULUS (SHORT/LONG)
 100/35 PCI

 11. PROVIDE 4" COMPACTED GRANULAR FILL BENEATH ALL EARTH SUPPORTED SLABS.
 PROVIDE A 10 MIL MINIMUM VAPOR BARRIER BETWEEN BOTTOM OF SLAB AND TOP
- PROVIDE ½" P.E.J FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.
 SEE PROJECT SPECIFICATIONS FOR FLOOR FLATNESS AND FLOOR LEVELNESS REQUIREMENTS.
- 14. SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING.
 15. HORIZONTAL BARS IN FOOTINGS AND STEM WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL INTERSECTIONS UNLESS NOTED OTHERWISE.
- 16. SUPPORT BOTTOM REINFORCING IN FOOTINGS WITH CONCRETE BRICKS OR PLASTIC CHAIRS SPACED A MAXIMUM OF 3'-0" EACH WAY. SUPPORTS SHALL BE POSITIONED TO PROVIDE A MINIMUM OF 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
- 17. CONSTRUCTION JOINTS IN CONTINUOUS FOOTINGS SHALL BE FORMED VERTICALLY WITH A CLASS B LAP IN HORIZONTAL REINFORCING.
- 18. POUR AZ MUD MAT OF LEAN CONCRETE IN THE BOTTOM OF A FOOTING
- EXCAVATION THAT WILL BE EXPOSED TO RAIN.

 19. ALL REINFORCING SHALL BE TIED IN PLACE PRIOR TO PLACING CONCRETE.
- 20. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER.
 21. WHERE FOOTING STEPS ARE REQUIRED, THEY SHALL BE NO STEEPER THAN ONE
- VERTICAL TO TWO HORIZONTAL.

 22. WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTING, STEP FOOTING DOWN TO PROVIDE CLEARANCE. COORDINATE WITH PLUMBING
- DRAWINGS FOR LOCATIONS, SIZES, AND INVERTS.

 23. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS AND FROM PONDING ON PREPARED SUBGRADES AND SLABS. DO NOT USE
- EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES.

 24. DEWATER EXCAVATIONS AND REMOVE ANY WET MATERIAL PRIOR TO THE PLACING OF CONCRETE.
- OF CONCRETE.

 15. IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE AND ENGINEER IF UNUSUAL SOIL CONDITIONS ARE FOUND.

CONCRETE:

- ALL CONCRETING OPERATIONS SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR
- STRUCTURAL CONCRETE FOR BUILDINGS".

 2. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI

 215 "DETAILING MANUAL".
- THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS.
- 1. CONCRETE MIX DESIGNS (40% FLY ASH)
 2. CONCRETE REINFORCING (100% RECYCLED CONTENT)

 CONTRACTOR SHALL NOT FARRICATE OR BLACE REINFORCEMENT UNTIL
- 4. CONTRACTOR SHALL NOT FABRICATE OR PLACE REINFORCEMENT UNTIL REINFORCEMENT SHOP DRAWINGS, REVIEWED AND STAMPED BY THE STRUCTURAL ENGINEER, ARE RECEIVED ON THE JOB SITE. SHOP DRAWINGS SHALL CONSIST OF BOTH "CUT" AND PLACEMENT SHEETS. PLACEMENT SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL NOT BE COPIED OR REPRODUCED FOR USE AS SHOP DRAWINGS.
- 5. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS, TESTING, AND INSPECTIONS SHALL BE USED TO VERIFY THAT CONSTRUCTION IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL
- HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL
 CONFORM TO THE REQUIREMENTS OF THE CODE.

 6. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND
 REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR
- REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED CONCRETE DESIGN STRENGTH IS THE CONTRACTOR'S.

 REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 AND CONTAIN 100%
- RECYCLED CONTENT.

 8. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064 AND CONTAIN 100% RECYCLED CONTENT. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2" OR 8". WWR SHALL BE SUPPLIED
- IN FLAT SHEETS (NOT ROLLS).

 9. SEE CONCRETE MIX DESIGN SCHEDULE FOR REQUIRED CONCRETE STRENGTH AND PROPERTIES. CONCRETE DESIGN SHALL INCLUDE 40% FLY ASH
- PROPERTIES. CONCRETE DESIGN SHALL INCLUDE 40% FLY ASH.

 10. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS
- NOT PERMITTED.

 1. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4 INCH CHAMFER.

 2. CONSTRUCTION JOINTS IN A HORIZONTAL PLANE ARE NOT PERMITTED.
- 13. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS. MAKE ALL REINFORCING CONTINUOUS THROUGH CONSTRUCTION JOINTS. CONTROL JOINTS FOR CONCRETE SLABS ON GRADE SHALL BE AS DETAILED AND LOCATED AS SHOWN IN THE CONSTRUCTION
- DOCUMENTS.

 14. EARTH SUPPORTED SLABS: 4" THICK, REINFORCED WITH 4X4 W2.9/W2.9 WWR AT
- MID-DEPTH OF SLAB, UNLESS NOTED OTHERWISE.

 15. COAT ALL SLABS WITH CURING COMPOUND WITHIN 24 HOURS OF PLACING.
 PRODUCT USED SHALL CONFORM WITH ASTM C309, AND SHALL BE COMPATIBLE
 WITH ADDRESS FINISHES. A DISSIPATING FORMULATION SHALL BE USED AT
- CEMENTITIOUS FINISHES.

 16. SLAB JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS, THEN FILL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AS FOLLOWS: 6" SLABS FILL WITH EPOXY RESIN, OTHER SLABS FILL WITH FIELD
- MOLDED OR ELECTROMETRIC SEALANT.

 17. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DEPRESSED SLABS AND
- DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

 18. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS
 FOR SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC. THE CONTRACTOR SHALL
 BE RESPONSIBLE FOR COORDINATING AND PLACING ALL SLEEVES, EMBEDDED
 ITEMS, ACCESSORIES, ETC.
- SEE CONCRETE COVER SCHEDULE FOR REQUIRED STEEL COVERAGE.
 REINFORCING BAR PLACING ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS
- SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

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

 22. TIE ALL REINFORCING STEEL AND EMBEDMENT'S SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
- 23. ADDITIONAL REINFORCING AND THE QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENINGS AS DETAILED.
 24. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTH SHOWN.
- 25. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHOP MADE COLD BENDS.

STRUCTURAL STEEL

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW

SHOP DRAWINGS WHICH INCLUDE ERECTION DRAWINGS, MATERIALS,

- CONNECTIONS, FABRICATION, AND ALL DETAILS FOR THE FOLLOWING ITEMS.

 1. STRUCTURAL STEEL
- STRUCTURAL STEEL:
 ASTM A36 FOR ALL STEEL
- 4. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C.
 5. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B.
 6. WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16".
- ACCORDANCE WITH AMERICAN WELDING SOCIETY D1.1 SPECIFICATION.

 7. HEADED ANCHOR RODS: ASTM F1554, GRADE 55, WELDABLE ANCHOR AND HEAVY
 HEX NUT. LINESS INDICATED OTHERWISE

ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND IN

- HEX NUT, UNLESS INDICATED OTHERWISE.

 8. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OR REPAIRS OF ANCHOR BOLTS OR RODS, AND COLUMN BASE PLATES.

 9. BOLTED CONNECTIONS: BEARING TYPE A325-N IN ACCORDANCE WITH AISC
- "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
 USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS.

 10. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC-SP10. USE ASTM A325 BOLTS HOT DIPPED
- GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS.

 11. ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER.

MASONRY

- MASONRY CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE MASONRY SOCIETY AND THE AMERICAN CONCRETE INSTITUTE.

 ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW THE BELOW LISTED ITEMS.
 MORTAR MATERIALS CERTIFICATES AND MIX DESIGN
- GROUT MATERIALS CERTIFICATES AND MIX DESIGN
 THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. PROVIDE CONCRETE MASONRY UNITS WITH A MINIMUM COMPRESSIVE STRENGTH OF I'm = 2500 PSI, AS
- DETERMINED IN ACCORDANCE WITH ASTM C140.

 5. PROVIDE HOLLOW, LOAD BEARING CONCRETE MASONRY UNITS CONFORMING TO
- ASTM C90.
 6. PROVIDE TYPE "S" MORTAR IN ACCORDANCE WITH ASTM C270, UNLESS NOTED
- OTHERWISE.
 7. COURSE MASONRY GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8". MINIMUM COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. STOP GROUT 2" SHORT OF TOP BED JOINT TO CREATE A SHEAR KEY
- WITH THE NEXT LIFT.

 MASONRY GROUT SHALL BE MECHANICALLY CONSOLIDATED AT THE TIME OF
- PLACEMENT AND THEN RECONSOLIDATED WITHIN 45 MINUTES.

 9. DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

 10. ALL REINFORCING IN MASONRY WALLS SHALL BE FULLY ENCLOSED WITH

PROPERLY CONSOLIDATED GROUT.

WHEN LAYING BLOCK MORE THAN FIVE FEET FOUR INCHES VERTICAL PRIOR TO GROUTING (HIGH LIFT), PROVIDE A 4"X4" CLEAN OUT OPENING AT THE BOTTOM COURSE OF EACH LIFT AT EACH REINFORCED CELL. CELLS SHALL BE THOROUGHLY CLEANED PRIOR TO GROUTING. SEAL OPENING DURING GROUTING.
 PROVIDE 9 GA. GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82 OR ASTM A951 AT 16" OC VERTICALLY FOR FULL WALL

HEIGHT. LAP 6" MINIMUM AND PROVIDE PREFAB CORNERS AND TEES. SEE

ARCHITECTURAL FOR BRICK TIES FABRICATED INTEGRAL WITH JOINT REINFORCING, IF REQUIRED.

3. ADEQUATE TEMPORARY BRACING OF CMU WALLS MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE TO

PROVIDE ADEQUATE LATERAL STABILITY TO THE WALL

WOOD FRAMING:

- WOOD TOWNING.

 1. WOOD CONSTRUCTION SHALL COMPLY WITH THE INTERNATIONAL BUILDING
- CODE AND THE AMERICAN WOOD COUNCIL REQUIREMENTS.

 2. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL
 - CONFORM TO THE REQUIREMENTS OF THE CODE.

 3. WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONED #2 SOUTHERN
 - PINE.
 4. TRUSSES SPANNING GREATER THAN TWENTY-FOUR FEET: VISUALLY GRADED
 - DIMENSIONED #1 SOUTHERN PINE.

 5. SILL PLATES, SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE SHALL BE AS SPECIFIED
- 6. ALL PRESSURE TREATED LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) OR MICRONIZED COPPER AZOLE (MCA) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD.
 - PRESERVATIVE RETENTION:
 - 1. 0.60 LBS/FT3 PERMANENT WOOD FOUNDATIONS
 - 0.40 LBS/FT3 GROUND CONTACT
 0.25 LBS/FT3 ABOVE GROUND
- 8. ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL, OR AS RECOMMENDED BY THE PRESERVATIVE MANUFACTURER. PRESSURE TREATED
- LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.

 9. DIMENSIONED LUMBER FLOOR JOISTS AND BEAMS SHALL BE LATERALLY BRACED AT ENDS, POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKING, BRIDGING, OR TRANSVERSE BEAMS IN ORDER TO PREVENT
- ROTATION.

 10. ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONGTIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE
 FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF
 CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE
- MANUFACTURER.

 11. FLOOR SHEATHING: 3/4" TONGUE & GROOVE PLYWOOD OR OSB, APA SINGLE FLOOR RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 48/24. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS WITH JOINTS
- STAGGERED.

 12. FLOOR SHEATHING NAILING, UNLESS NOTED: 10D HOT-DIPPED GALVANIZED COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 8 INCHES AT PANEL
- ENDS AND INTERMEDIATE SUPPORTS.

 13. ROOF SHEATHING (TYPICAL): 15/32" PLYWOOD OR OSB, APA STRUCTURAL I RATED SHEATHING, EXPOSURE I. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO TONGUE AND GROOVE WITH JOINTS STAGGERED.
- RATED SHEATHING, EXPOSURE I. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO TONGUE AND GROOVE WITH JOINTS STAGGERED.

 15. ROOF SHEATHING NAILING, UNLESS NOTED: 16D HOT-DIPPED GALVANIZED
- COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS.

 16. TONGUE AND GROOVE ROOF DECKING: PRESSURE TREATED 2X6 T&G SOUTHERN PINE NO. 1 GRADE SOLID TIMBER DECKING WITH TONGUE INSTALLED UP-SLOPE.

ROOF SHEATHING (WELCOME HUB): 23/32" PLYWOOD OR OSB, APA STRUCTURAL I

- TWO SPAN MINIMUM WITH END JOINT SPACING A MINIMUM OF FOUR FEET.

 17. TONGUE AND GROOVE ROOF DECKING NAILING: ATTACH AT EACH SUPPORT WITH THREE 16D COMMON NAILS, ONE THROUGH THE TONGUE AND TWO FACE
- 18. SHEAR WALL SHEATHING: 15/32" PLYWOOD OR OSB, APA STRUCTURAL I RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PARALLEL OR PERPENDICULAR TO STUDS. ALL PLYWOOD EDGES BACKED WITH TWO-INCH NOMINAL OR WIDER FRAMING.
- 19. SHEAR WALL SHEATHING NAILING, UNLESS NOTED: 10D HOT-DIPPED GALVANIZED COMMON NAILS AT 4 INCHES AT SHEAR WALL BOUNDARIES, 4 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE MEMBERS.
- 20. GLUED LAMINATED TIMBER SHALL BE SOUTHERN YELLOW PINE, UNLESS NOTED OTHERWISE.
 21. GLUED LAMINATED TIMBER SHALL CONFORM TO THE REQUIREMENTS OF THE "STRUCTURAL GLUED LAMINATED TIMBER," AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AITC A190.1 AND "STANDARD APPEARANCE GRADES FOR
- STRUCTURAL GLUED LAMINATED TIMBER," AITC 110, ARCHITECTURAL APPEARANCE.

 22. USE WET-USE (WATERPROOF) ADHESIVES FOR ALL GLUED LAMINATED TIMBER.

 23. ALL PRESSURE TREATED GLUED LAMINATED TIMBER FRAMING SHALL BE PRESSURE TREATED WITH PENTACHLOROPHENOL IN MINERAL SPIRITS IN
- STRUCTURAL GLUED-LAMINATED TIMBER." ALL TREATED GLUED LAMINATED TIMBER SHALL BE SEALED WITH 2 COATS OF URETHANE FURNISHED BY THE GLUED LAMINATED SUPPLIER AND APPLIED BY THE CONTRACTOR.

 24. GLUE LAMINATED TIMBER STRESS GRADES SHALL PROVIDE THE FOLLOWING

ACCORDANCE WITH AITC 109 "STANDARD FOR PRESERVATIVE TREATMENT OF

MINIMUM PROPERTIES (PSI) FOR BENDING A	BOUT THE X-X /	AXIS:
LOAD	DRY USE	WET USE
BENDING (Fb)	2400	<u> 1900</u>
TENSION (Ft)	1100	880
COMP PARALLEL TO GRAIN (Fc PAR)	1350	985
COMP PERPEND TO GRAIN (Fc PER)	560	<u> 295</u>
SHEAR PARALLEL TO GRAIN (Fv)	200	<u> 175</u>
MODULUS OF ELASTICITY (E)	1,700,000	1,400,000

SHOP FABRICATED WOOD TRUSSES:

- HOP FABRICATED WOOD TRUSSES:

 DESIGN, FABRICATE, AND ERECT SHOP FABRICATED WOOD TRUSSES IN
- ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE.

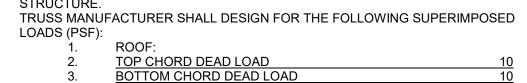
 THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S RECORD ERECTION PLANS, TRUSS CALCULATIONS, AND CONNECTION CALCULATIONS, AS
- PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

 3. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE,

DESIGNED BY THE CONTRACTOR. CALCULATIONS SHALL BEAR THE SEAL OF A

- PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.

 4. THE WOOD TRUSS SYSTEM ENGINEER SHALL DESIGN THE COMPLETE TRUSS SYSTEM. THE TRUSS SYSTEM IS AN ASSEMBLAGE OF TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATION CRITERIA, THAT, IN
- COMBINATION, FUNCTION TO SUPPORT THE LOADS APPLICABLE TO THE STRUCTURE.



- 4. <u>BOTTOM CHORD LIVE LOAD</u> 0
 SEE "DESIGN LOADS" SECTION OF THE GENERAL NOTES FOR LIVE LOADS APPLIED TO THE TOP CHORD.
 DESIGN ROOF TRUSSES TO RESIST THE WIND UPLIFT LOADING IN ACCORDANCE
- WITH THE BUILDING CODE.

 8. IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER
- SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE CONTRACTOR.

 9. ALL MANUFACTURED TRUSS HOLD-DOWNS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO
- FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.

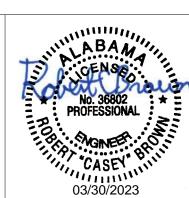
 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DETAILED ON THE WOOD TRUSS

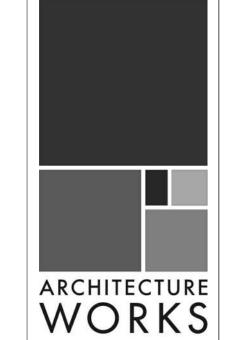
MANUFACTURER'S ERECTION PLANS.

11. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF OR FLOOR DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.



Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190
Mobile, AL 36606
Tel: 251.666.2443





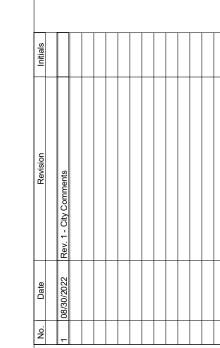
130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

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302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

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20-1101-0049

CONFORMANCE SET

PROJECT STATUS

MARCH 24, 2023
SHEET NAME

EET NO.

GENERAL NOTES

	STRUCTURAL TYPI	CAL ABBRE\	/IATIONS
AB	ANCHOR BOLT	VERT.	VERTICAL
AFF	ABOVE FINISH FLOOR	JST.	JOIST
ВОТ.	ВОТТОМ	JT.	JOINT
B.O. BM	BOTTOM OF BEAM	JG.	JOIST GIRDER
B.O. COL	BOTTOM OF COLUMN	К	KIPS (1000 LBS)
B.O. CONC	BOTTOM OF CONCRETE	KLF	KIPS PER LINEAR FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. JST	BOTTOM OF JOIST	KSI	KIPS PER SQUARE FOOT
B.O. SLAB	BOTTOM OF SLAB	LB/S	POUND/POUNDS
B.O. STL	BOTTOM OF STEEL	LLH	LONG LEG HORIZONTAL
B.O. WALL	BOTTOM OF WALL	LLV	LONG LEG VERTICAL
BFF	BELOW FINISH FLOOR	LIN.	LINEAR
BRG.	BEARING	LIN. FT.	LINEAR FOOT
BLK.	BLOCK	MISC.	MISCELLANEOUS
BM. BP	BEAM BASE DI ATE	NS NTS	NEAR SIDE NOT TO SCALE
	BASE PLATE		
BRIDG.	BRIDGING	NOM.	NOMINAL
BRG.	BEARING CENTER	0.C.	ON CENTER
C/C	CENTER TO CENTER	O.F.	OUTSIDE FACE
CL	CENTERLINE	OPNG.	OPENING
CONN.	CONNECTION	OPP.	OPPOSITE
CMU	CONCRETE MASONRY UNIT	PL	PLATE
CONST. JT.	CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENERS
CONT.	CONTINUOUS	PLF	POUNDS PER LINERA FOOT
CJ	CONTROL JOINT	PCF	POUNDS PER CUBIC FOOT
CONC.	CONCRETE	PCI	POUNDS PER CUBIC INCH
COL.	COLUMN	WP	WORK POINT
CTR.	CENTER	REV.	REVISION
DBL.	DOUBLE	REINF.	REINFORCING
DBA	DEFORMED ANCHOR BAR	REQ'D.	REQUIRED
DBE	DECK BEARING ELEVATIONS	SIM.	SIMILAR
EJ	EXPANSION JOINT	SCHED.	SCHEDULE
ELEV.	ELEVATION	SLH	SHORT LEG HORIZONTAL
EMBED.	EMBEDMENT	SLV.	SHORT LEG VERTICAL
EXIST. GR.	EXISTING GRADE	SJ	SAW JOINT
EXIST.	EXISTING	SPA.	SPACING
EOS	EDGE OF SLAB	SF	SQUARE FOOT
FF	FINISH FLOOR	STD.	STANDARD
F.O. BM.	FACE OF BEAM	STIFF.	STIFFENER
F.O. COL.	FACE OF COLUMN	STRUCT.	STRUCTURAL
F.O. CONC.	FACE OF CONCRETE	TBR	TO BE REMOVED
F.O. FTG.	FACE OF FOOTING	T&B	TOP AND BOTTOM
F.O. JST.	FACE OF JOIST	T.O. BM	TOP OF BEAM
F.O. SLAB	FACE OF SLAB	T.O. COL	TOP OF COLUMN
F.O. STL.	FACE OF STEEL	T.O. CONC	TOP OF CONCRETE
F.O. WALL	FACE OF WALL	T.O. FTG	TOP OF FOOTING
FLR.	FLOOR	T.O. JST	TOP OF JOIST
FDN.	FOUNDATION	T.O. SLAB	TOP OF SLAB
FTG.	FOOTING	T.O. SEAB	TOP OF STEEL
HS	HEADED STUD	T.O. WALL	TOP OF STEEL TOP OF WALL
HK.	HOOK	THK.	THICK
HORIZ.			
	HORIZONTAL	THRU	THROUGH
l TYP	TYPICAL	W/O	WITHOUT
UNO	UNLESS NOTED OTHERWISE	WWR	WELDED WIRE REINFORCEMENT

CAST-IN-PLACE CONCRETE MIX SCHEDULE									
APPLICATION	EXPOSURE CLASS	STRENGTH (PSI)	TYPE	W/C RATIO	SLUMP	AIR CONTENT	MAX AGGREGATE	MAX CONCRETE WEIGHT (PCF)	FIBER
SLAB ON GRADE / PEDESTALS	F0, S0, P0, CO	4,000	NORMAL WT.	0.45 (40% ASH)	3" TO 5"		3/4"		NO
SHALLOW FOUNDATIONS	F0, S0, P0, CO	3,000	NORMAL WT.	0.50 (40% ASH)	4" TO 6"		3/4"		NO

EXPOSURE CLASS FOR FREEZE/THAW, SULFATES, PERMEABILITY, AND CORROSION ARE PER ACI 318, SECTION 4.2.

WHERE NO W/C RATIO, SLUMP, OR AIR CONTENT IS NOTED, VALUES SHALL BE AS RECOMMENDED BY THE READY MIX SUPPLIERS ENGINEER. WHERE AIR ENTRAINMENT IS NOT REQUIRED PER THE ABOVE TABLE, THE CONTRACTOR, INSTALLER, OR SUPPLIER MAY CHOOSE TO INCLUDE AIR ENTRAINMENT TO IMPROVE PLACEMENT AND FINISHING CHARACTERISTICS. AIR ENTRAINMENT IS NOT PERMITTED IN NORMAL WEIGHT CONCRETE TO RECEIVE A HARD TROWEL FINISH, AND ENTRAPPED AIR SHALL NOT EXCEED 3%. AIR ENTRIANMENT IN LIGHT WEIGHT CONCRETE SLABS IS REQUIRED TO MEET FIRE RATING REQUIREMENTS. SLABS SHALL BE PROPERLY FINISHED TO AVOID SURFACE IMPERFECTIONS SUCH AS BLISTERING OR DELAMINATION.

CEMENT AND AGGREGATES SHALL BE FROM A SINGLE SOURCE.

LOCATION	COVER mm (IN)
CONCRETE CAST AGAINST & EXPOSED TO EARTH	76 (3")
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 TO #18 BARS	51 (2")
#5, W31, AND SMALLER BARS	38 (1 1/2")
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	38 (1 1/2")
#11 AND SMALLER BARS	19 (3/4")
BEAMS AND COLUMNS	38 (1 1/2")
FOOTINGS, GRADE BEAMS, AND PILE CAPS	51 (2") TOP 76 (3") BOTT. & SIDES
DRILLED PIERS AND BELLED PIERS	76 (3") CLEAR OF TIES
PEDESTALS AND COLUMNS	38 (1 1/2") CLEAR OF TIES
BASEMENT WALLS	51 (2") EXT. & 19 (3/4") INT.
RETAINING WALLS	51 (2") BOTH FACES
SUMP AND PIT WALLS	51 (2") BOTH FACES
ELEVATED SLABS NOT EXPOSED TO WEATHER	19 (3/4") TOP & BOTT.
POST TENSIONED SLABS EXPOSED TO WEATHER	25 (1") TOP & BOTT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	38 (1 1/2") TOP & 19 (3/4") BOTT
#6 AND GREATER BARS	51 (2") TOP & 19 (3/4") BOTT.
WELDED WIRE REINFORCEMENT:	
5" OR LESS SLAB THICKNESS	CENTER
6" OR GREATER SLAB THICKNESS	51 (2") FROM TOP
SLAB ON WELL GRADED SUBGRADE OR VAPOR BARRIERS	19 (3/4") TOP 38 (1 1/2") BOTT.
BEAMS	38 (1 1/2") CLEAR OF STIRRUP
JOISTS	38 (1 1/2") ALL SIDES
WIDE MODULE JOISTS	19 (3/4")

	CONCRETE TENSION SPLICE LAP LENGTHS											
		f'c = 30	000 PSI			f'c = 40	000 PSI		f'c = 5000 PSI			
BAR SIZE	TOP	BARS	OTHER	RBARS	TOP I	BARS	OTHER	BARS	TOP	BARS	OTHER	RBARS
	Α	В	А	В	Α	В	Α	В	Α	В	А	В
#3	22	28	17	22	19	25	15	19	17	22	13	17
#4	29	38	22	29	25	33	19	25	23	29	17	23
#5	36	47	28	36	31	41	24	31	28	36	22	28
#6	54	56	33	43	37	49	29	37	34	44	26	34
#7	63	81	48	63	54	71	42	54	49	63	38	49
#8	72	93	55	72	62	81	48	62	56	72	43	56
#9	81	105	62	81	70	91	54	70	63	81	48	63
#10	91	118	70	91	79	102	61	79	71	92	54	71
#11	101	131	78	101	87	114	67	87	78	102	60	78

ALL LENGTHS ARE IN INCHES.

BAR COVER AND TRANSVERSE REINFORCEMENT SHALL MEET CODE MINUMUM.

LAP SPLICING OF #14 & #18 BARS IS NOT ALLOWED.

LAP LENGTHS ARE FOR NORMAL WEIGHT CONCRETE WITH UNCOATED, 60 KSI BARS. WHEN LAPPING BARS OF DIFFERENT SIZES USE THE SPLICE LAP LENGTH OF THE SMALLER BAR, OR THE DEVELOPMENT LENGTH OF THE LARGER BAR, WHICHEVER IS GREATER. THE "A" VALUE FROM THE TABLE IS EQUAL TO THE BAR DEVELOPMENT LENGTH.

ONCRETE

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

SCHEDULE OF	SPECIAL	INSPECTIONS
SPECIAL CASES (IBC 1705.1.1)		
ITEM	FREQUENCY	INSTRUCTIONS / COMMENTS
INSPECT WORK THAT IS DEEMED	CONTINUOUS	AS DEFINED BY THE BUILDING OFFIC
"UNUSUAL" BY THE BUILDING OFFICIAL.		OR REGISTERED DESIGN
SOUR CONSTRUCTION (IDC 4705 C)		PROFESSIONAL.
SOILS CONSTRUCTION (IBC 1705.6)	FREQUENCY	EXTENT / COMMENTS
VERIFY MATERIALS BELOW SHALLOW	PERIODIC	AS RECOMMENDED IN APPROVED SO
FOUNDATIONS ARE ADEQUATE TO	PERIODIC	REPORT AND CONTAINED IN THE
ACHIEVE THE DESIGN BEARING		CONSTRUCTION DOCUMENTS.
CAPACITY.		CONSTRUCTION BOSOMENTS.
VERIFY EXCAVATIONS ARE EXTENDED	PERIODIC	
TO PROPER DEPTH AND HAVE REACHED		
PROPER MATERIAL.		
VERIFY CLASSIFICATION AND TESTING	PERIODIC	
OF COMPACTED FILL MATERIALS.		
VEDIEV LIGE OF PROPER MATERIAL O	00117111110110	
VERIFY USE OF PROPER MATERIALS,	CONTINUOUS	
DENSITIES AND LIFT THICKNESSES		
DURING PLACEMENT AND COMPACTION		
OF COMPACTED FILL. OBSERVE SUBGRADE AND VERIFY THAT	PERIODIC	
SITE HAS BEEN PREPARED PROPERLY	PERIODIC	
PRIOR TO PLACEMENT OF COMPACTED		
FILL.		
CONCRETE CONSTRUCTION (IBC 1705.3)		
ITEM	FREQUENCY	EXTENT / COMMENTS
SPREAD FOOTING ARE EXCEPTED FROM		
INSPECTIONS, BUT NOT MATERIALS		
TESTING.		
CONTINUOUS FOOTINGS ARE		
EXCEPTED FROM INSPECTIONS, BUT		
NOT MATERIALS TESTING.		
SLABS ON GRADE ARE EXCEPTED FROM		
INSPECTIONS, BUT NOT MATERIALS		
TESTING.		
CONCRETE FOUNDATION WALLS ARE		
EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.		
INSPECT ANCHORS TO BE INSTALLED IN	PERIODIC	
CONCRETE PRIOR TO AND DURING	LINODIC	
PLACEMENT OF CONCRETE.		
INSPECT ANCHORS POST-INSTALLED IN	PERIODIC	INSPECT ACCORDING TO RESEARCH
HARDENED CONCRETE.		REPORT FOR THE ANCHOR ISSUED.
VERIFY THAT CORRECT CONCRETE	PERIODIC	FOR EACH POUR.
DESIGN MIX IS BEING USED.		
AT THE TIME CONCRETE IS SAMPLED	CONTINUOUS	DURING PLACEMENT OPERATIONS.
FOR STRENGTH TESTS, TEST		REFERENCE CONCRETE
CONCRETE FOR SLUMP, AIR CONTENT,		SPECIFICATIONS FOR SPECIFIC TEST
AND TEMPERATURE.	CONTINUES	AND FREQUENCIES.
INSPECT CONCRETE/SHOTCRETE	CONTINUOUS	
PLACEMENT AND PLACEMENT METHODS		
EXCEPT AS NOTED ABOVE.		
INSPECT ALL CONCRETE CURING	PERIODIC	MONITOR DURING HOT, COLD AND
OPERATIONS.		WINDY CONDITIONS. REFERENCE
		CONCRETE SPECIFICATIONS.
MEASURE FLOOR AND SLAB FLATNESS	PERIODIC	FOR EACH POUR. DO NOT SUBMIT
AND LEVELNESS ACCORDING TO ASTM		REPORTS TO BUILDING OFFICIAL.
E 1155.		
STRUCTURAL STEEL CONSTRUCTION (IBC	1705.2.1)	
ITEM	FREQUENCY	EXTENT / COMMENTS
INSPECT ANCHOR RODS AND OTHER	PERIODIC	APPLIES TO EMBEDDED POST/COLUI
EMBEDMENTS. VERIFY DIAMETER,		CONNECTIONS.
GRADE, TYPE AND LENGTH OF THE		
ANCHOR ROD OR EMBEDDED ITEM AND		
THE EXTENT OF DEPTH OF EMBEDMENT		
PRIOR TO PLACEMENT OF CONCRETE.		
WOOD CONSTRUCTION (IBC 4705 5)		<u> </u>
WOOD CONSTRUCTION (IBC 1705.5)	EDECLIEUS:	EVERIT / SOLUTION
ITEM	FREQUENCY	EXTENT / COMMENTS
INSPECT SITE-BUILT ASSEMBLIES	PERIODIC	
INCLUDING SITE BUILT TRUSSES.		
INSPECT ERECTED TRUSSES INCLUDING		
BRIDGING AND ATTACHMENTS.		
I I		

OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE

OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE INSPECTION AGENT(S) ARE

CONTINUOUS: THE INSPECTOR IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS

INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING



2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443





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PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023

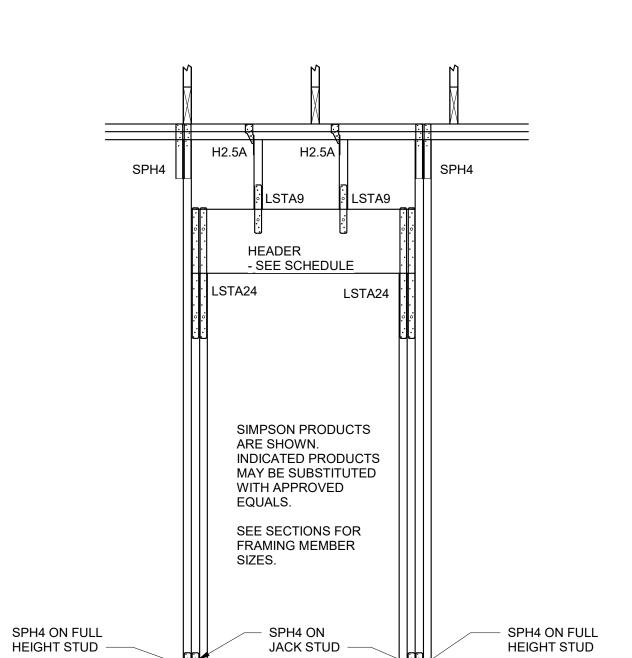
SHEET NAME ABBREVIATIONS **SCHEDULES & TABLES**

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
	ROOF	T
BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8D COMMON (2 1/2"X0.131") 2-3"X0.131" NAILS 3-3" 14 GAGE STAPLES	EACH END, TOENAIL
	2-16D COMMON (3 1/2"X0.162") AT 6" O.C. 3-3"X0.131" NAILS 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16D COMMON (2 1/2"X0.131") AT 6" O.C.	FACE NAIL
CEILING JOISTS TO TOP PLATE	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL
CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16D COMMON (2 1/2"X0.131"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
COLLAR TIE TO RAFTER	3-10D COMMON (3"X0.148"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 1308.7.5)	3-10D COMMON (3"X0.148"); OR 3-16D COMMON (2 1/2"X0.131"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16D COMMON (3 1/2"X0.162"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
	3-10D COMMON (3"X0.148"); OR 4-16D BOX (3 1/2"X0.135"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
	WALL	
STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"X0.162")	24" O.C. FACE NAIL
	10D BOX (3"X0.128"); OR 4-3"X0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED	16D COMMON (3 1/2"X0.162")	16" O.C. FACE NAIL
WALL PANELS)	16D BOX (3 1/2"X0.162")	12" O.C. FACE NAIL
	3"X0.131 NAILS; OR 3" 14 GUAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (3 1/2"X0.162")	16" O.C. EACH EDGE, FACE NAI
	10D BOX (3"X0.128")	12" O.C. EACH EDGE, FACE NAI
CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2"X0.131"); OR 4-10D BOX (3"X0.128")	TOENAIL
TOP PLATE TO TOP PLATE	16D COMMON (3 1/2"X0.162")	16" O.C. FACE NAIL
	10D BOX (3"X0.128"); OR 4-3"X0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON (3 1/2"X0.162"); OR 12-10D BOX (3"X0.128"); OR 12-3"X0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FAC NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"X0.162")	16" O.C. FACE NAIL
	16D BOX (3 1/2"X0.135"); OR 3"X0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
BOTTOM PLATE TO JOIST, RIM JIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (3 1/2"X0.162"); OR 3-16D BOX (3"X0.135"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
STUD TO TOP OR BOTTOM PLATE	2-16D COMMON (3 1/2"X0.162"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
TOP PLATES, LAPS AT CORNERS, AND INTERSECTIONS	2-16D COMMON (3 1/2"X0.162"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128"); OR 2-3"X0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
1"X6" SHEATHING TO EACH BEARING	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128")	FACE NAIL
1"X8" AND WIDER SHEATHING TO EACH BEARING	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128")	FACE NAIL

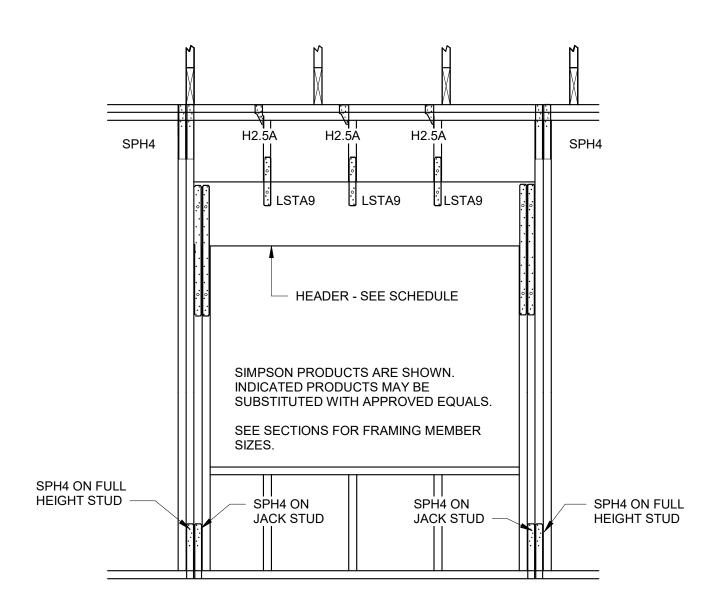
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
	FLOOR	
JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131 NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8D COMMON (2 1/2"X0.131"); OR 10D BOX (3"X0.128"); OR 3"X0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" O.C., TOENAIL
1"X6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128")	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	2- 16D COMMON (3 1/2"X0.162")	FACE NAIL
2" PLANKS (PLANK AND BEAM - FLOOR AND ROOF)	2- 16D COMMON (3 1/2"X0.162")	EACH BEARING, FACE NAIL
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D BOX (4"X0.192")	32" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	10D BOX (3"X0.128"); OR 3"X0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND 2-20D COMMON (4"X0.192"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAUGE STAPLES, 7/16 CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3 1/2"X0.162"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON (3 1/2"X0.162"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128"); OR 2-3"X0.131 NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL

FOR USE WHEN A SPECIFIC CONNECTION IS NOT PROVIDED IN DETAILS AND SECTIONS.

WOOD HEADER TABLE										
HEADER	MAX SPAN	DESCRIPTION	DETAIL							
HD428	5'-0"	2X4 WALL WITH DOUBLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (2) 16D NAILS @12" OC.								
HD4212	8'-0"	2X4 WALL WITH DOUBLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.								
HD628	6'-6"	2X6 WALL WITH TRIPLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (2) 16D NAILS @12" OC.								
HD6212	10'-0"	2X6 WALL WITH TRIPLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.								
HD628i	5'-6"	2X6 WALL WITH DOUBLE 2X8 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.								
HD6212i	8'-6"	2X6 WALL WITH DOUBLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.								
HD6212hs	12'-0"	2X6 WALL WITH TRIPLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ (3) 16D NAILS @12" OC SIDES, & 16D NAILS @6" OC T&B.								



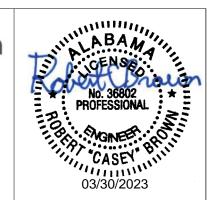
TYPICAL DOOR OPENING HOLD-DOWN



TYPICAL WINDOW OPENING HOLD-DOWN



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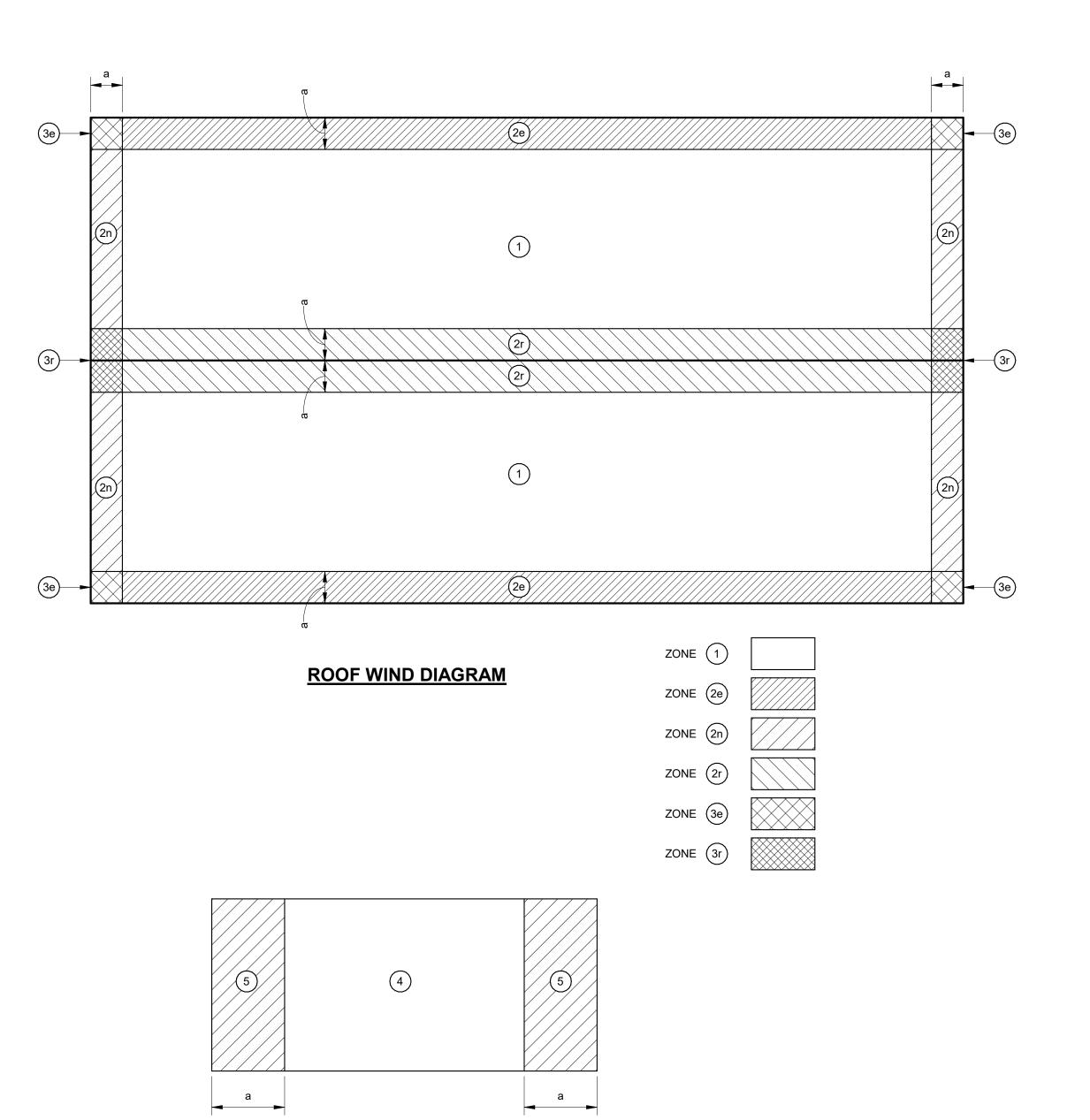
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PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023 SHEET NAME

SCHEDULES & TABLES



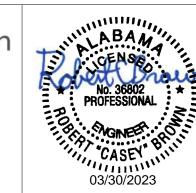
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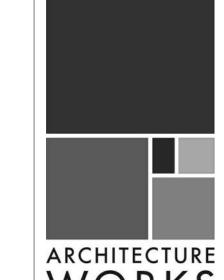
WALL WIND DIAGRAM

LOCATION	70NE	AREA	ULTIMATE +P	ULTIMATE -P	ALLOWABLE +P	ALLOWABLE -P	OH ULT. -P	OH ALL -P
LOCATION	ZONL	AILA	' 1	-1	'1	-1		-1
ROOF	1	10	70.9	-114.9	42.5	-68.9	-154.0	-92.4
ROOF	1	20	66.0	-100.2	39.6	-60.1	-139.3	-83.6
ROOF	1	50	56.7	-80.7	34.0	-48.4	-119.8	-71.9
ROOF	1	100	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	1	200	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	1	500	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2e	10	70.9	-114.9	42.5	-68.9	-154.0	-92.4
ROOF	2e	20	66.0	-100.2	39.6	-60.1	-139.3	-83.6
ROOF	2e	50	56.7	-80.7	34.0	-48.4	-119.8	-71.9
ROOF	2e	100	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2e	200	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2e	500	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2r	10	70.9	-114.9	42.5	-68.9	-154.0	-92.4
ROOF	2r	20	66.0	-100.2	39.6	-60.1	-139.3	-83.6
ROOF	2r	50	56.7	-80.7	34.0	-48.4	-119.8	-71.9
ROOF	2r	100	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2r	200	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2r	500	51.3	-66.0	30.8	-39.6	-105.1	-63.1
ROOF	2n	10	70.9	-124.7	42.5	-74.8	-163.8	-98.3
ROOF	2n	20	66.0	-113.9	39.6	-68.3	-153.5	-92.1
ROOF	2n	50	56.7	-98.3	34.0	-59.0	-138.4	-83.0
ROOF	2n	100	51.3	-86.0	30.8	-59.0 -51.6	-126.1	-75.7
ROOF	211 2n	200	51.3	-75.8	30.8	-31.0 -45.5	-120.1	-68.9
ROOF	211 2n	500	51.3	-75.8	30.8	-45.5 -45.5	-114.9	-68.9
ROOF	3e	1-2	70.9	-183.3	42.5	-45.5 -110.0		-133.4
ROOF	3e	10	70.9	-163.3 -149.1	42.5		-222.4	
ROOF	3e	20	66.0	-149.1		-89.5 -80.6	-188.2 -173.6	-112.9
		50			39.6			-104.2
ROOF	3e		56.7	-114.9	34.0	-68.9	-154.0	-92.4
ROOF	3e	100	51.3	-100.2	30.8	-60.1	-139.3	-83.6
ROOF	3e	200	51.3	-85.6	30.8	-51.4	-123.7	-74.2
ROOF	3e	300	51.3	-75.8	30.8	-45.5	-114.9	-68.9
ROOF	3e	500	51.3	-75.8	30.8	-45.5	-114.9	-68.9
ROOF	3r	10	70.9	-124.7	42.5	-74.8	-163.8	-98.3
ROOF	3r	20	66.0	-113.9	39.6	-68.3	-153.5	-92.1
ROOF	3r	50	56.7	-98.3	34.0	-59.0	-138.4	-83.0
ROOF	3r	100	51.3	-86.0	30.8	-51.6	-126.1	-75.7
WALL	3r	200	51.3	-75.8	30.8	-45.5	-114.9	-68.9
WALL	3r	500	51.3	-75.8	30.8	-45.5	-114.9	-68.9
WALL	4	10	75.8	-80.7	45.5	-48.4		
WALL	4	20	71.9	-78.2	43.1	-46.9		
WALL	4	50	68.0	-74.8	40.8	-44.9		
WALL	4	100	66.5	-71.9	39.9	-43.1		
WALL	4	200	65.0	-69.4	39.0	-41.6		
WALL	4	500	61.1	-66.0	36.7	-39.6		
WALL	5	10	75.8	-95.3	45.5	-57.2		
WALL	5	20	71.9	-90.4	43.1	-54.2		
WALL	5	50	68.0	-83.1	40.8	-49.9		
WALL	5	100	66.5	-77.2	39.9	-46.3		
WALL	5	200	65.0	-73.3	39.0	-44.0		
WALL	5	500	61.1	-66.0	36.7	-39.6		

- 1. DESIGN BASED ON ASCE 7-16, SECTION 30. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
- 2. ALLOWABLE WIND LOADS ARE 60% OF ULTIMATE WIND LOADS.
- PRESSURE CATEGORY, PARTIALLY ENCLOSED.
 WIDTH OF EDGE STRIP, "a" = 3'-2".







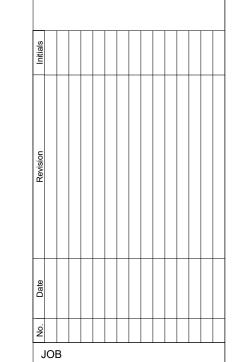
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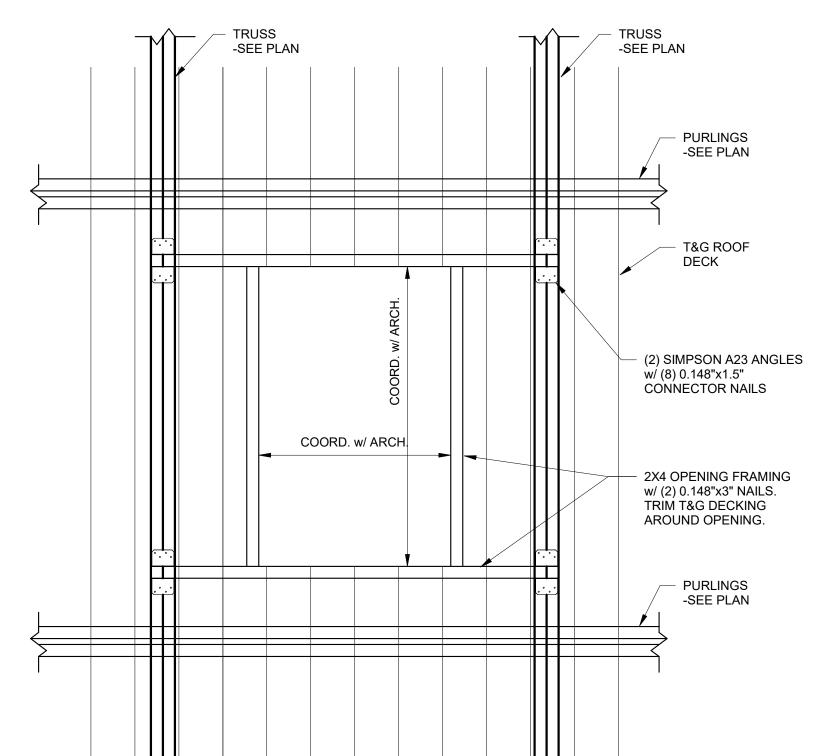


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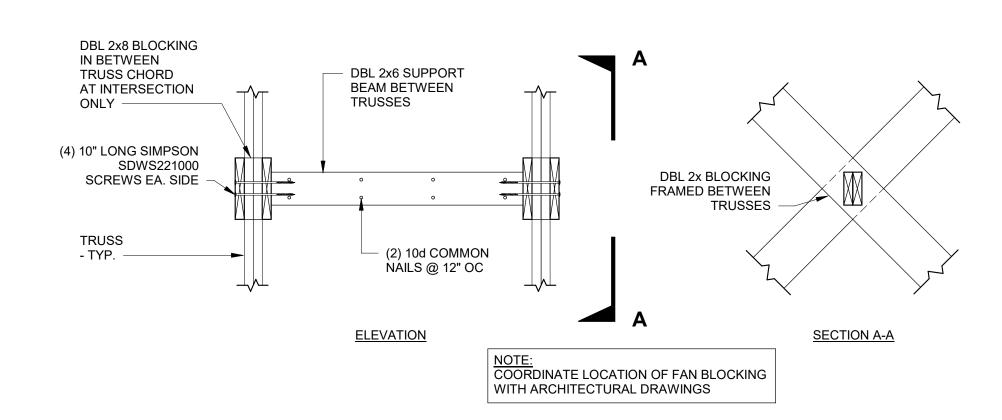
PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023

SHEET NAME C&C WIND DIAGRAMS AND TYPICAL DETAILS



ROOF PENETRATION DETAIL

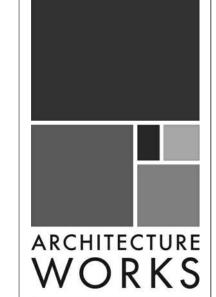


FAN SUPPORT BEAM DETAIL



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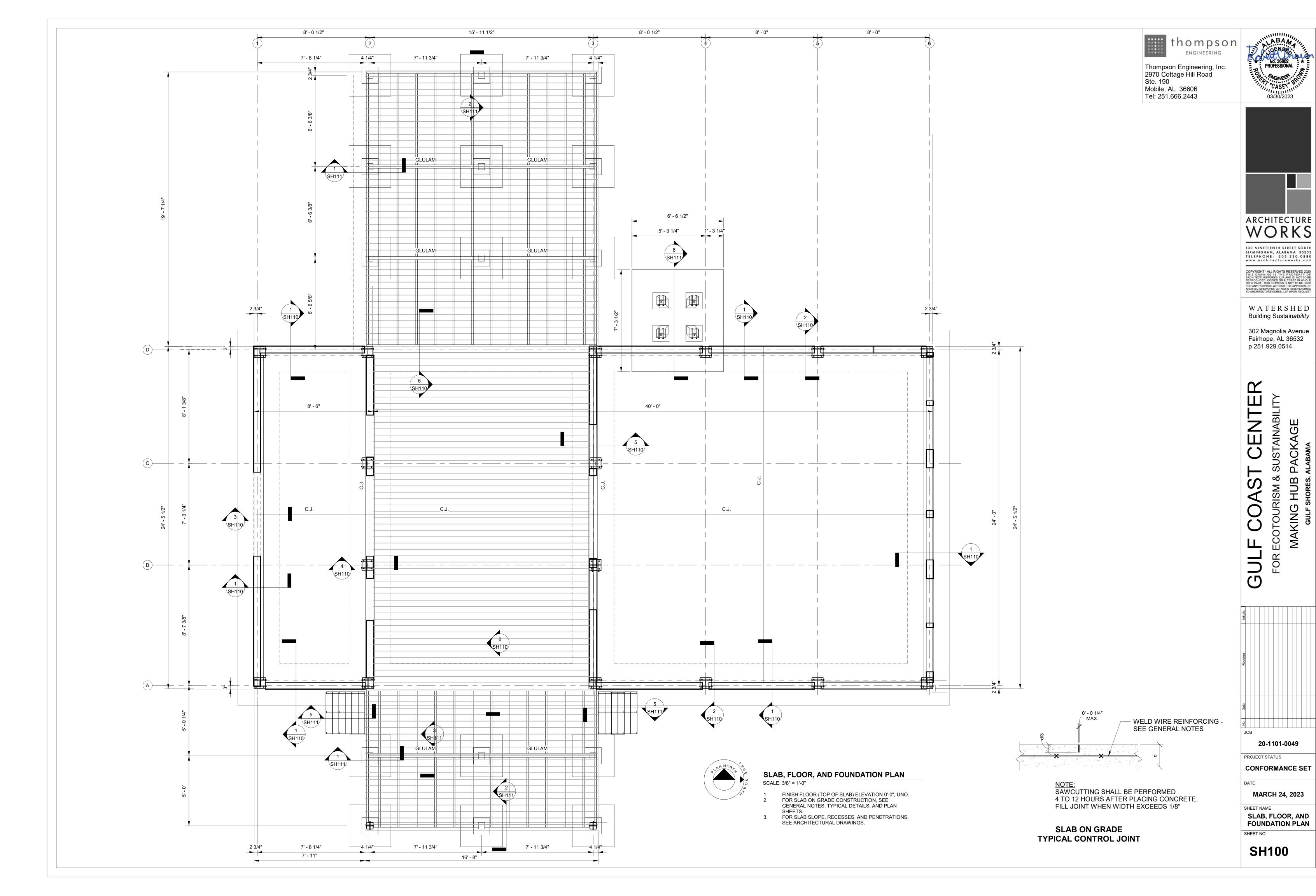
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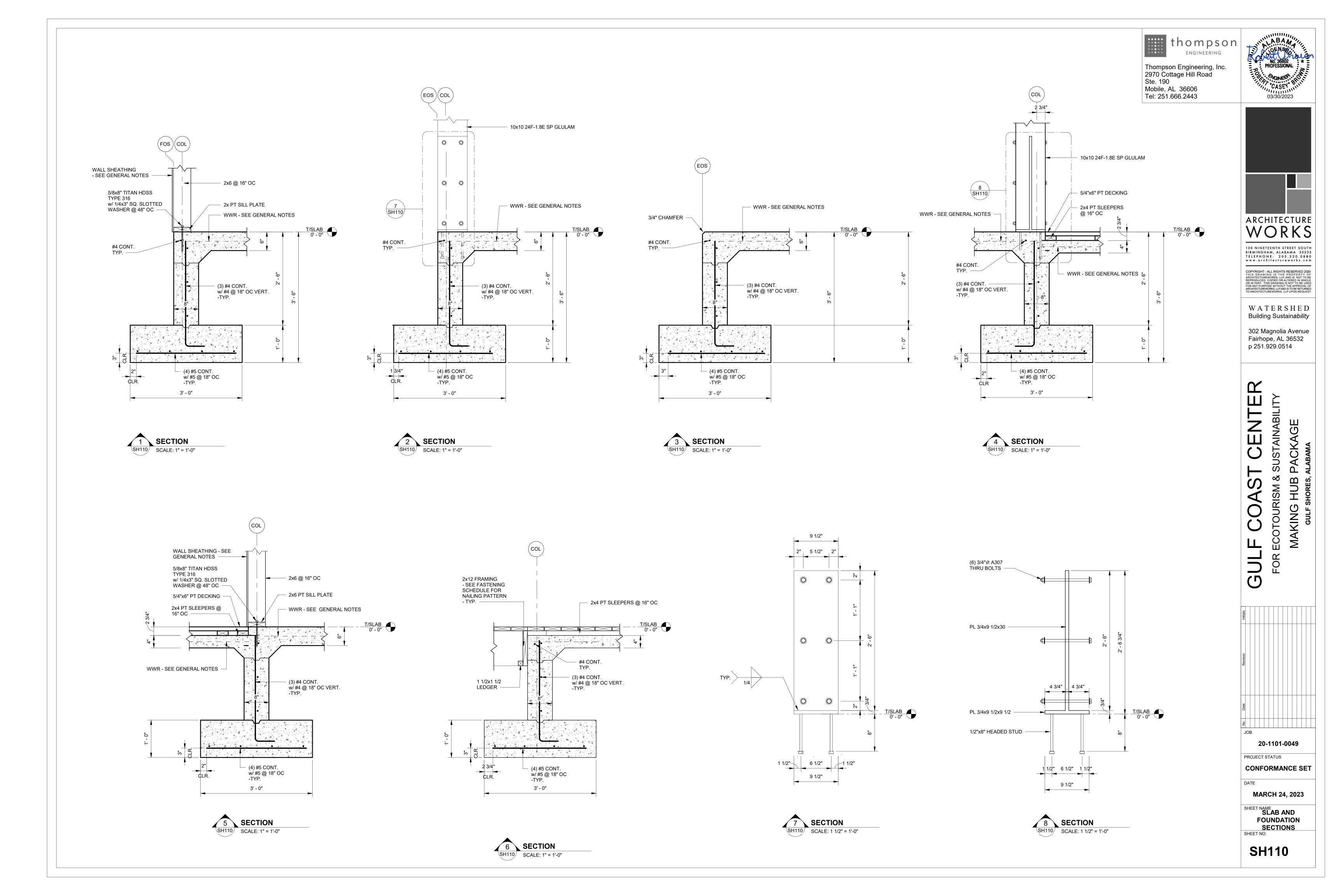
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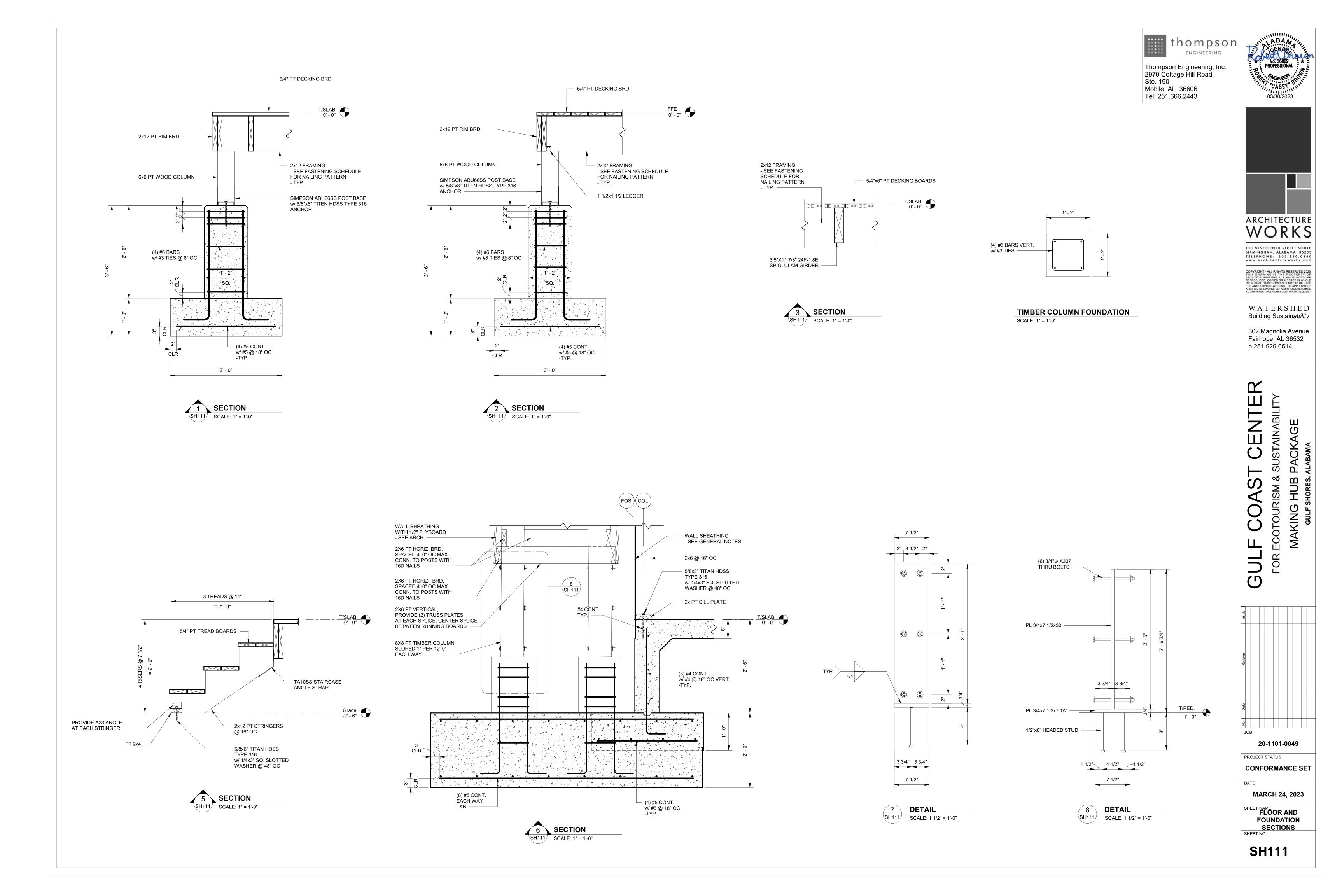
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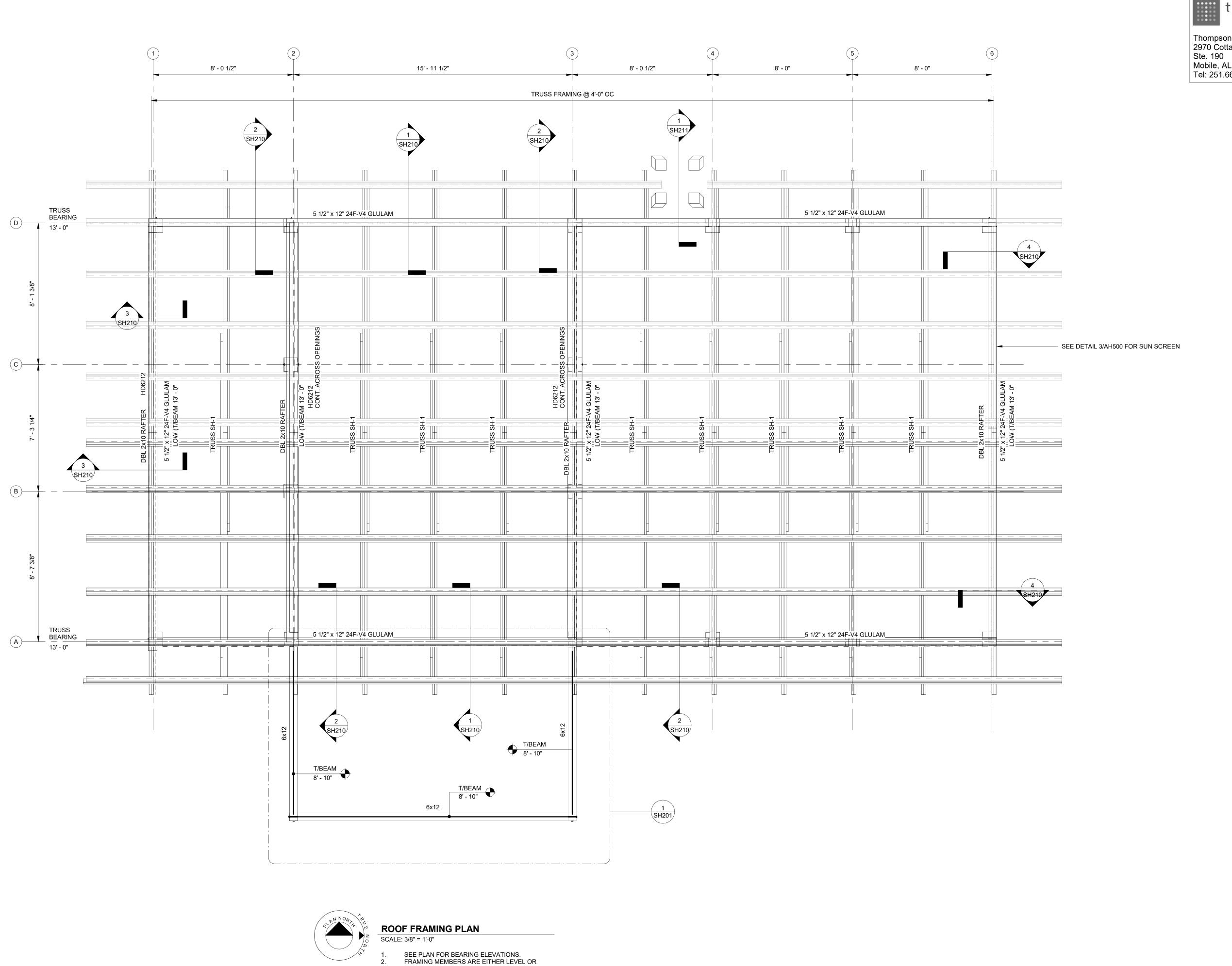
SHEET NAME TYPICAL DETAILS

SHEET NO.









SLOPING UNIFORMLY BETWEEN NOTED

AND MAXIMUM ALLOWED SPAN.

SEE DETAILS, SECTIONS, AND WOOD FRAMING CONNECTION TABLE FOR NAILED CONNECTIONS.

WOOD HEADER OVER OPENINGS IS CALLED OUT AS HDxxx. SEE HEADER SCHEDULE FOR DESIGN

ELEVATIONS.



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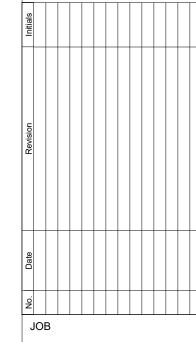
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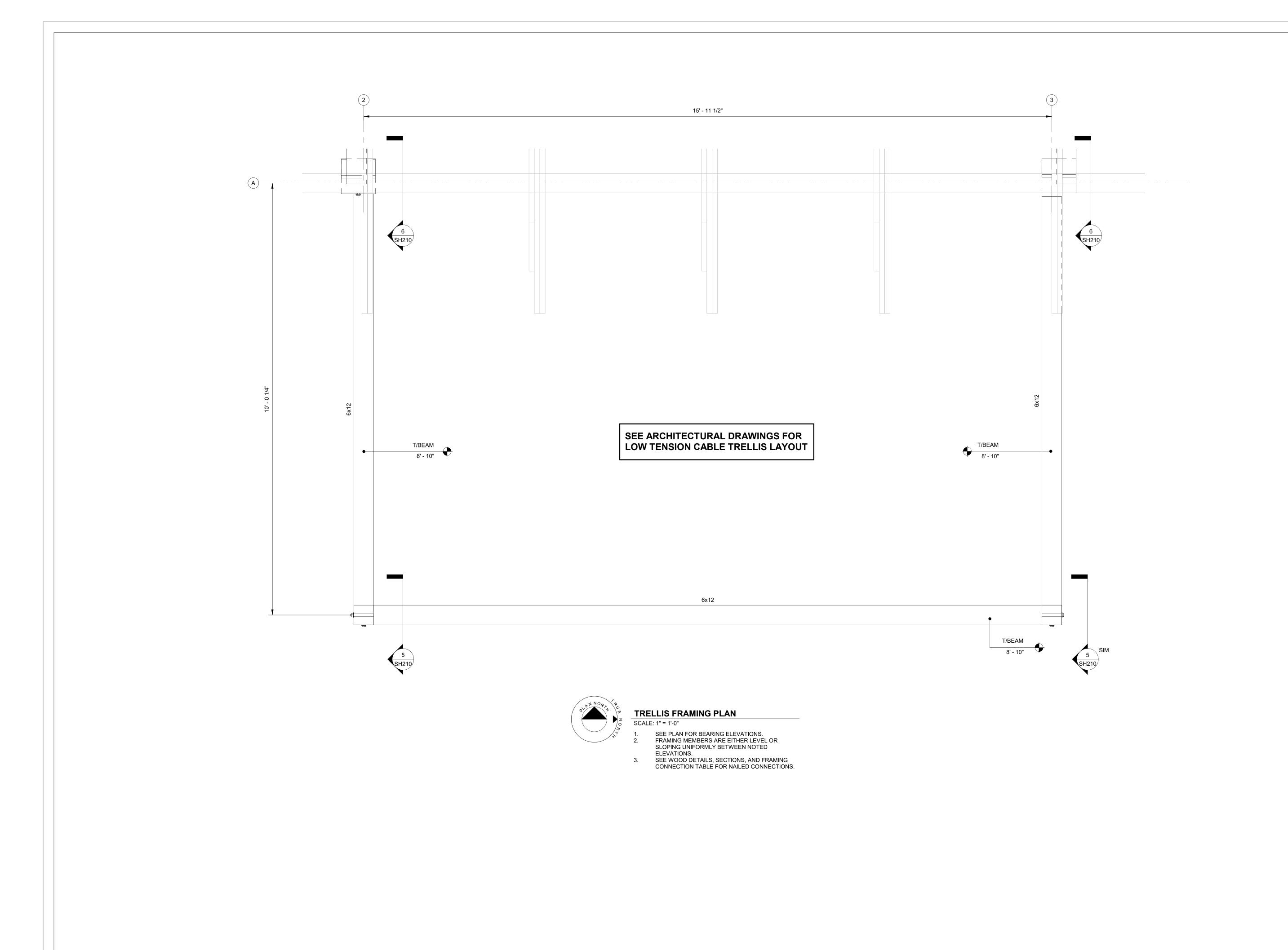
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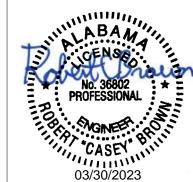
SHEET NAME **ROOF FRAMING PLAN**

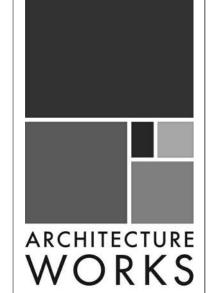
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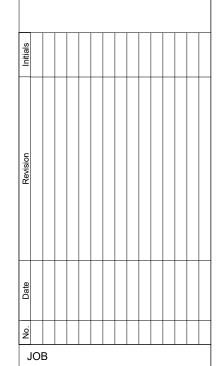
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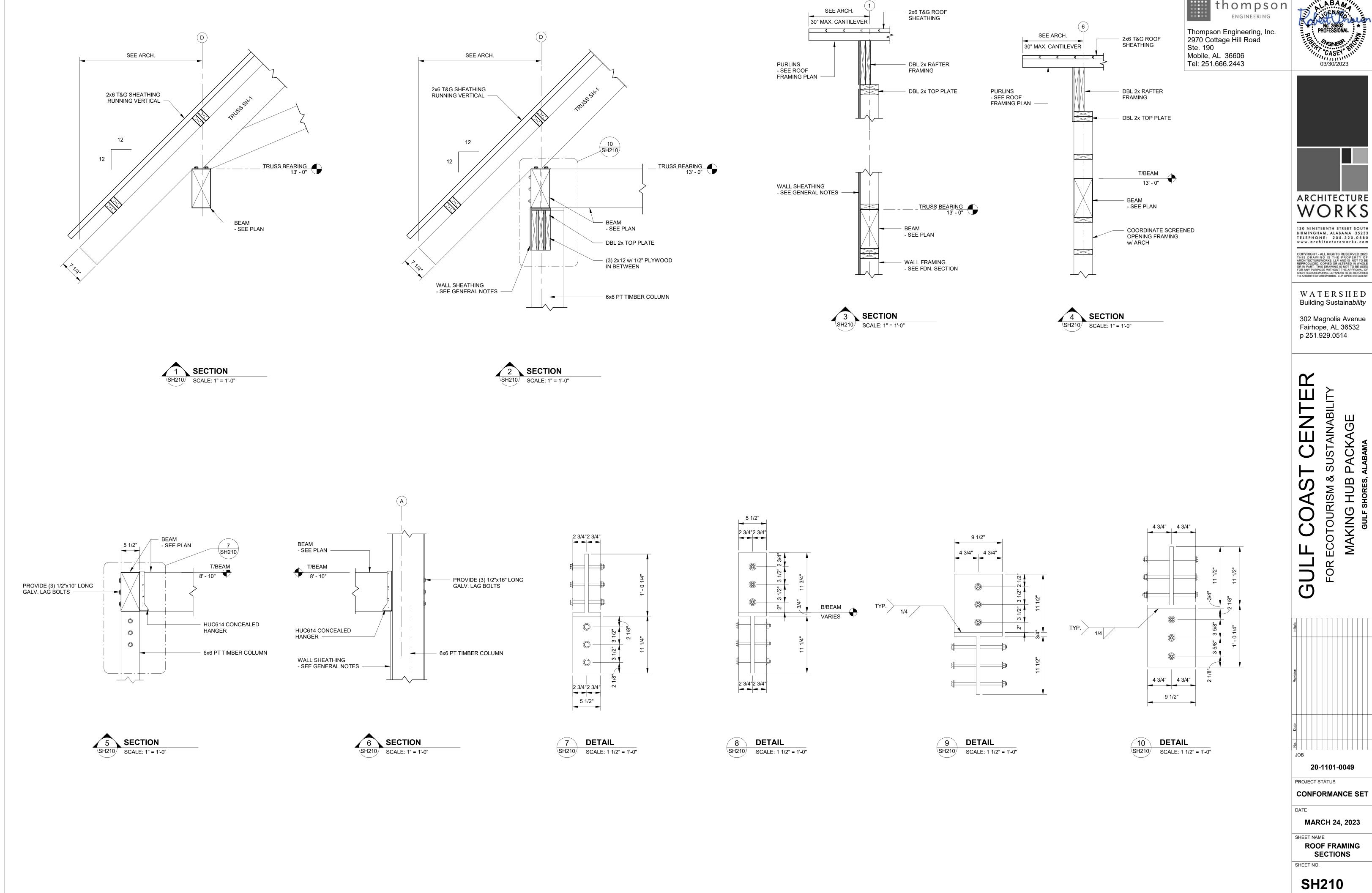
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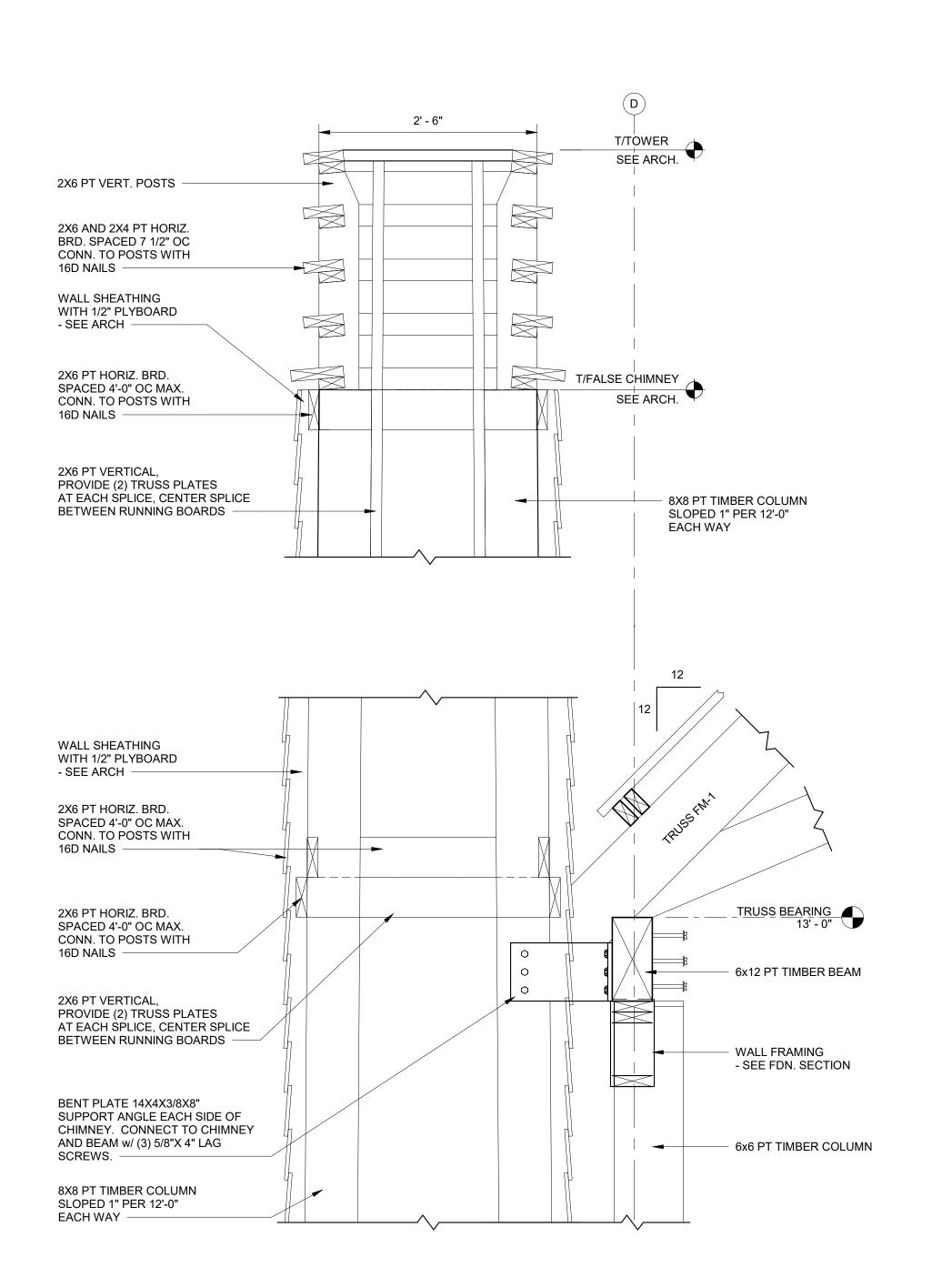
SHEET NAME TRELLIS FRAMING PLAN

SHEET NO.

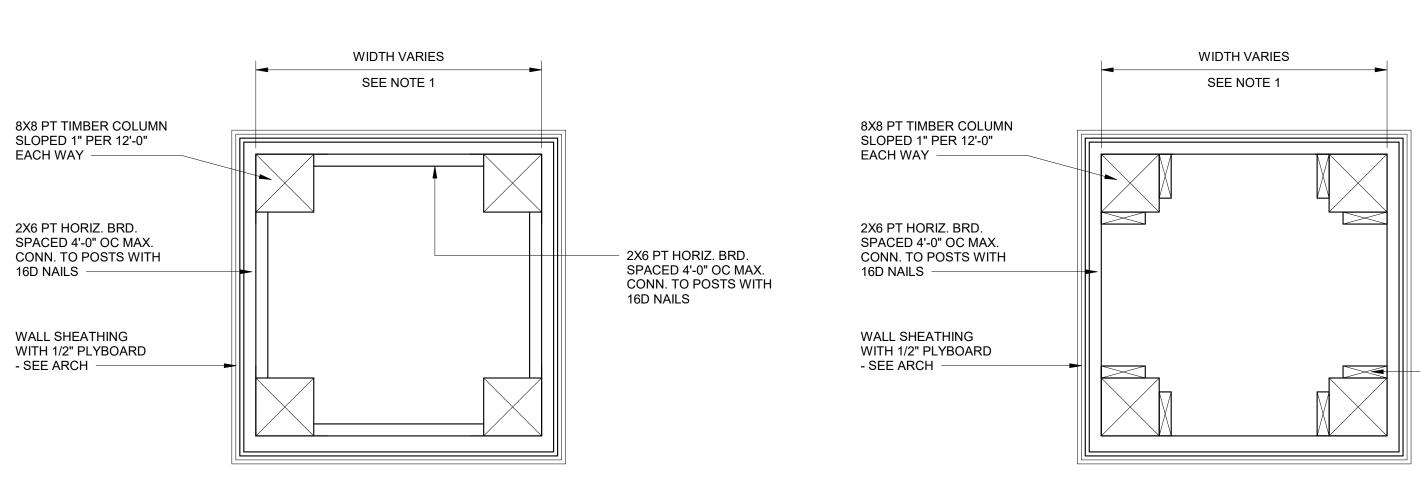




ARCHITECTURE



SH211/ SCALE: 1" = 1'-0"



FRAMING PLAN AT BASE

FRAMING PLAN AT CAP

SWIFT TOWER DETAIL SCALE: 1" = 1'-0"

1.BOTTOM WIDTH OF 8X8 COLUMNS = 3'-0" OUT-OUT, EQ BOTH SIDES, TOP OF COLUMNS = 2'-6" OUT-OUT AT 3'-0" BELOW TOP OF TOWER.

thompson ENGINEERING

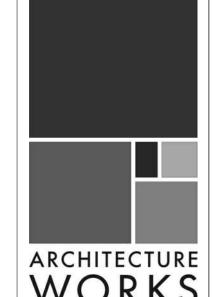
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- 2X6 PT VERTICAL, PROVIDE (2) TRUSS PLATES

BETWEEN RUNNING BOARDS

AT EACH SPLICE, CENTER SPLICE





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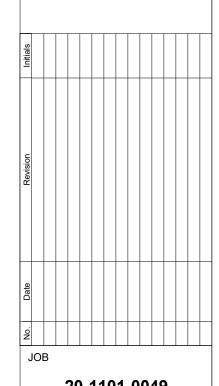
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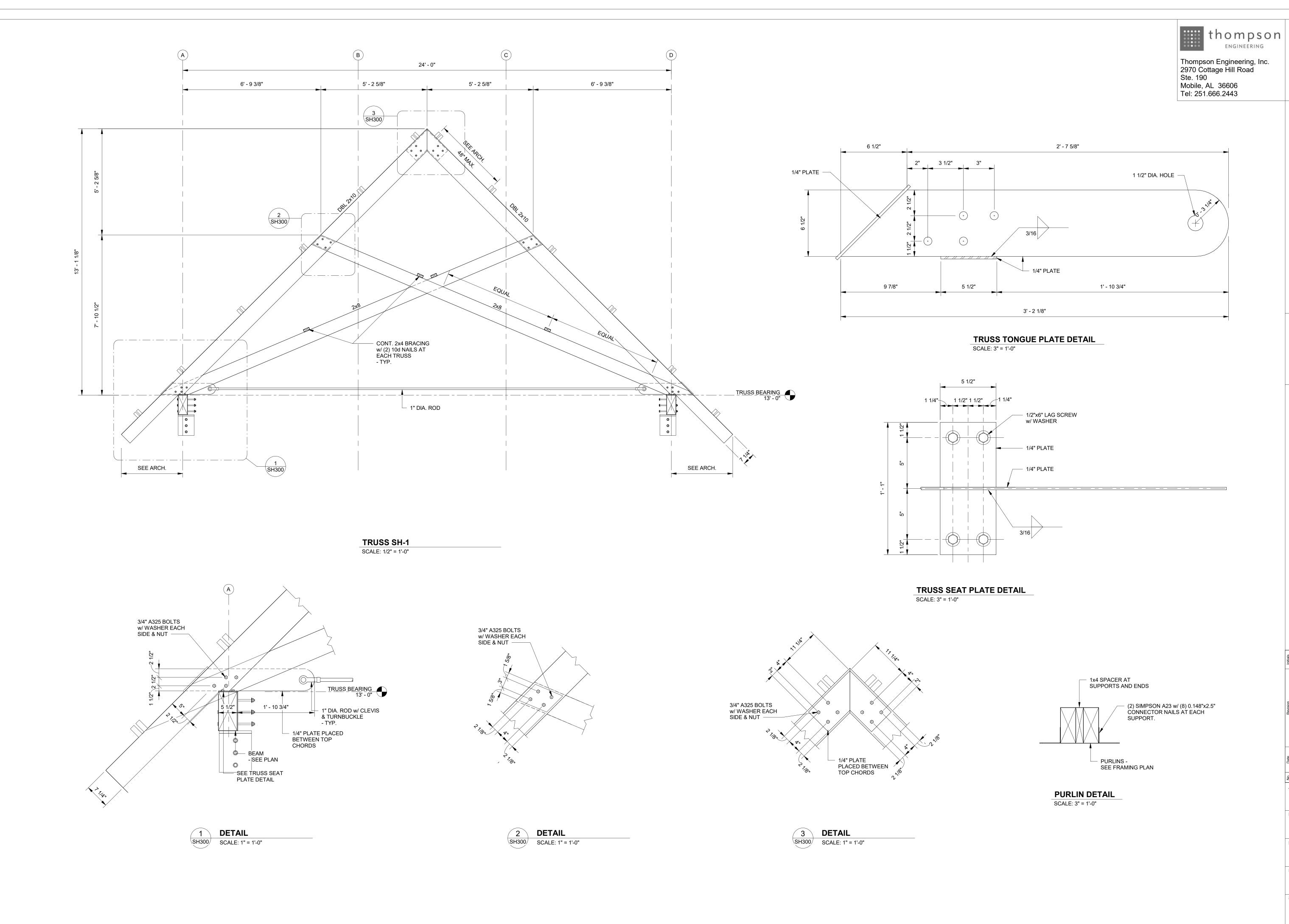
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ROOF FRAMING SECTIONS SHEET NO.



ARCHITECTURE

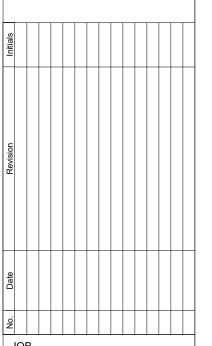
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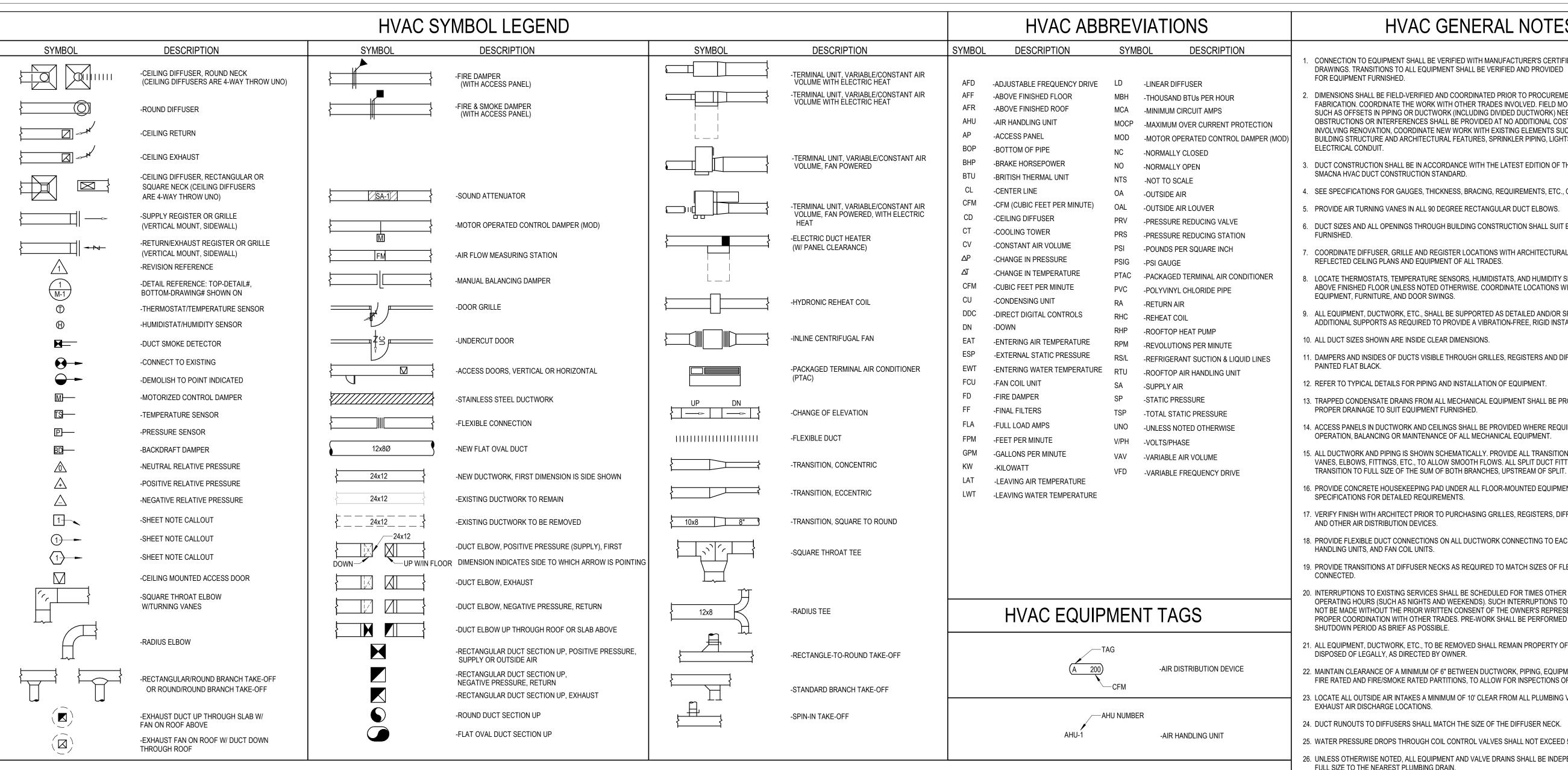
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HVAC GENERAL NOTES

- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- . SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
- . PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS
- 6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL
- LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
- . ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- 10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- I1. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE
- 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL
- 16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- 17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS
- 18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
- 19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE
- 20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
- 21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
- 22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
- 23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
- 24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
- 25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
- 26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
- 27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
- 28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF

THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

			F.A	N SCHE	DULE MA	AKER				
PLAN	MODE	A DE A OED) (ED	T)/DE	TOTAL OFM	EXT. SP (IN	INPUT	EAN DOM	\	MEIOUT (II)	NOTEO
MARK	MODEL	AREA SERVED	TYPE	TOTAL CFM	WG.)	WATTS	FAN RPM	VOLTS/PHASE	WEIGHT (Ib)	NOTES
F-MAKER-1	SP 80 VG	MAKER RR	CEILING	50	0.5	6	935	115/1		1,2,3
F-MAKER-2	SP 80 VG	MAKER RR	CEILING	50	0.5	6	935	115/1		1,2,3
F-MAKER-3	SP 80 VG	MAKER JAN	CEILING	50	0.5	6	935	115/1		1,2,3

1. UL 705 LISTED EC MOTOR WITH VARIABLE SPEED DIAL, OR SPEED VARIED BY POTENTIOMETER. PROVIDE ALL ALUMINUM BACKDRAFT DAMPER. 2. CONTROL BY DEDICATED WALL SWITCH (NOT LIGHT SWITCH) 3. DISCONNECT BY ELECTRICAL.

	HEATER SCHEDULE MAKER										
PLAN MARK	MODEL	AREA SERVED	TYPE	VOLTS/PHASE	WATTS	AMPS	WEIGHT (lb)	NOTES			
EH-MAKER 1	HF3323TD-RP	MAKER RR	WALL MOUNTED	208/1	1500	7.2	30	1,2,3,4			
EH-MAKER 2	HF3323TD-RP	MAKER UTILITY	WALL MOUNTED	208/1	1500	7.2	30	1,2,3,4			
EH-MAKER 3	HF3323TD-RP	MAKER RR	WALL MOUNTED	208/1	1500	7.2	30	1,2,3,4			
					_		-				

1. PROVIDE WITH INTEGRAL MANUAL DISCONNECT. COORIDNATE MCA AND MOCP WITH ELECTRICAL CONTRACTOR. 2. CONTROL BY ADJUSTABLE THERMOSTAT INTEGRAL TO UNIT. HEATER TO RUN WHENEVER INDOOR TEMPERATURE IS BELOW 70 DEG (ADJ) 3. BASIS OF DESIGN TPI. EQUALS BY INDEECO AND BRASCH.

	DX SPLIT SYSTEM SCHEDULE													
MARK	AREA SERVED	PLAN MARK CU	UNIT TYPE	AH MODEL	CU MODEL	TOTAL COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	CFM	REF. TYPE	SEER	HSPF	VOLTS/PHASE	MCA	MOP
DS-MAKER	MAKER	CU-MAKER	WALL MOUNTED	PKA-A24	PUZ-A24	24000	26000	700	R410a	17	10.8	208/1	18	30

1. PROVIDE WITH CONDENSATE PUMP POWERED BY THE ASSOCIATED INDOOR UNIT. WHERE GRAVITY DRAIN IS POSSIBLE, RETURN UNINSTALLED PUMP TO OWNER/MAINTENANCE.

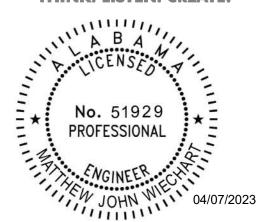
2. PROVIDE INLINE CONDENSATE OVERFLOW DETECTION TO SHUT FAN OFF ON OVERFLOW. 3. INDOOR UNIT POWERED BY OUTDOOR UNIT.

4. PROVIDE 24HR/365 DAY PROGRAMABLE WALL MOUNTED THERMOSTAT WITH INSULATED SUB BASE. 5. CONDENSING UNIT COIL TO RECEIVE ELECTROFIN SEA COAST COIL COATING. 6. BASIS OF DESIGN: MITSUBISHI (TRANE) SEE SPECS FOR EQUALS.

ENGINEERING SOLUTIONS

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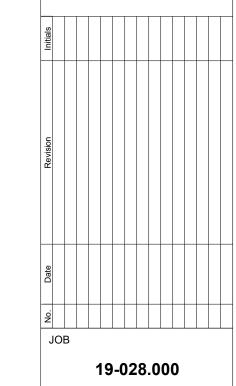
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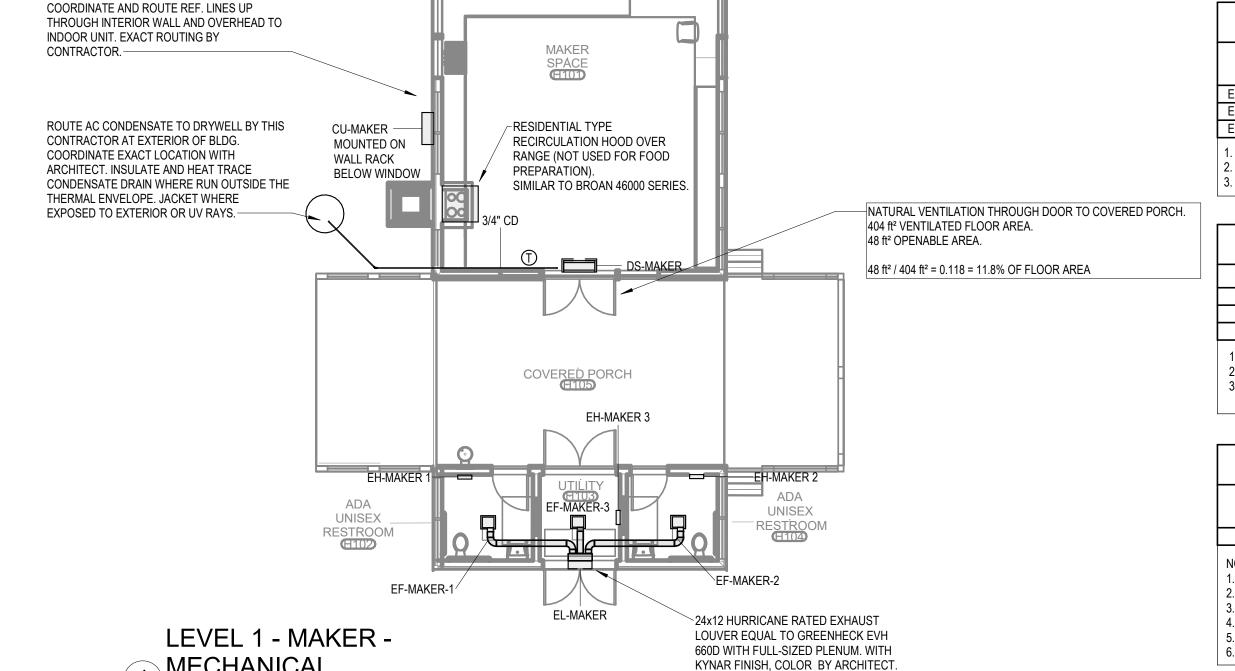
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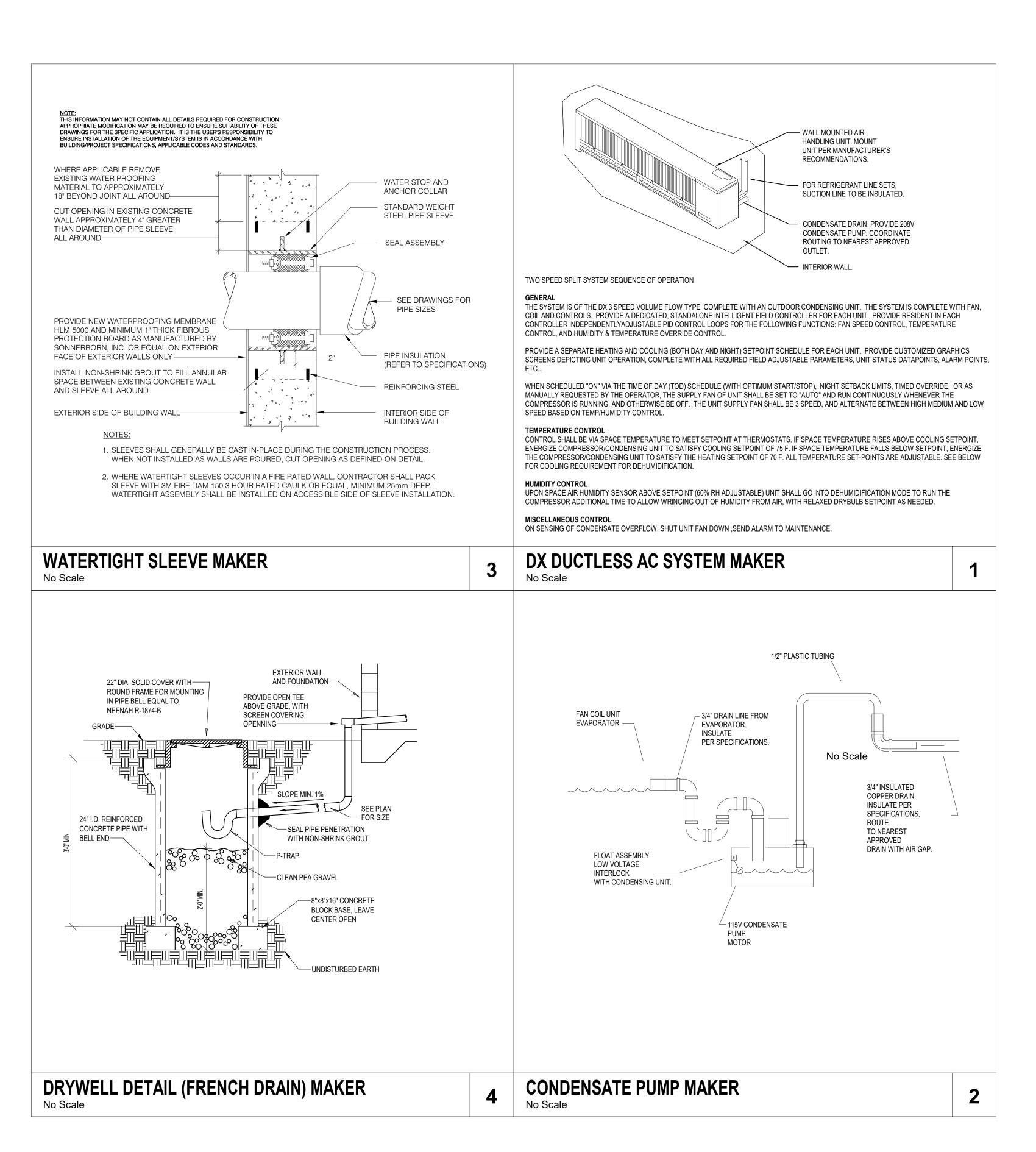
CONFORMANCE SET

MARCH 24, 2023

SHEETMECHANICAL LEGEND, FLOOR PLAN, AND SHEET SCHEDULES

MH001



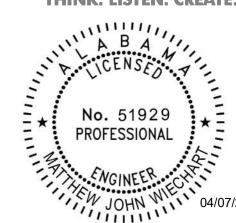




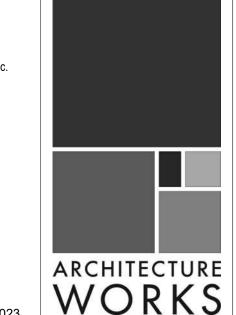
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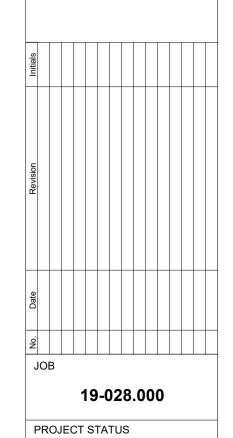


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MARCH 24, 2023

CONFORMANCE SET

MECHANICAL DETAILS

MH500

GREY WATER FILTER SYSTEM SPECIFCATIONS

BASSIS OF DESIGN
AQUA2USE GREYWATER RECYCLING SYSTEM

THE AQUA2USE GREYWATER RECYCLING SYSTEM GWDD SYSTEM WILL COLLECT WATER FROM L-2 LAVITORIES . THE GREYWATER IS FILTERED THROUGH A PROGRESSIVE FILTRATION SYSTEM, AND THEN AUTOMATICALLY DIVERTED TO YOUR IRRIGATION SYSTEM.

THE AQUA2USE IS FULLY AUTOMATED AND DOES NOT REQUIRE ANY HUMAN INTERVENTION TO OPERATE. THE SYSTEM SHALL INCLUDE PUMP, FILTERS, SENSORS AND TIMER.

OPERAION SEQUANC

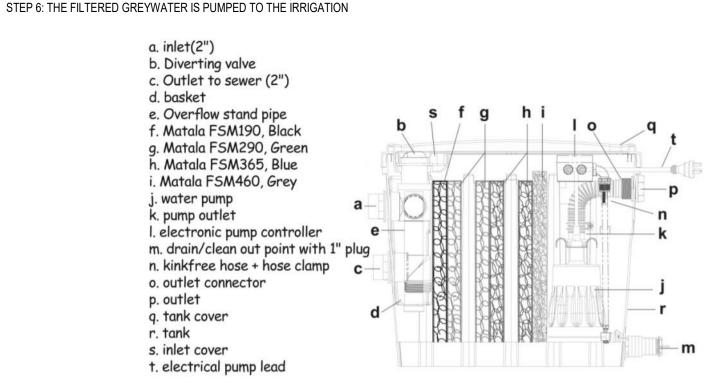
STEP 1: WHEN THE DIVERTING VALVE'S ARROW IS POINTING AWAY FROM THE FILTER, GREYWATER FLOWS DIRECT TO THE SEWER.

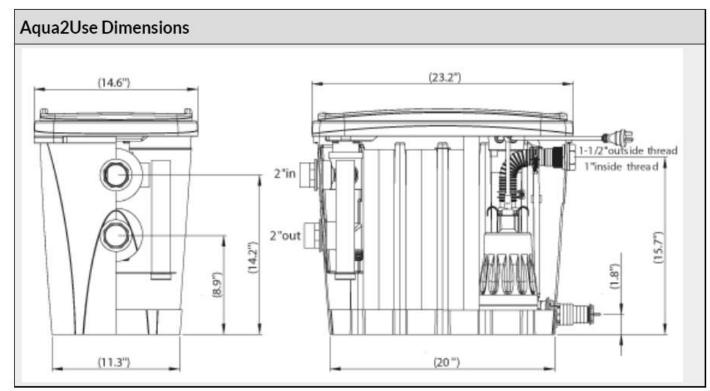
STEP 2: WHEN THE DIVERTING VALVE'S ARROW IS POINTING TOWARD THE FILTER, GREYWATER FROM THE HOUSE IS DIVERTED TO THE INLET OF THE FILTER.

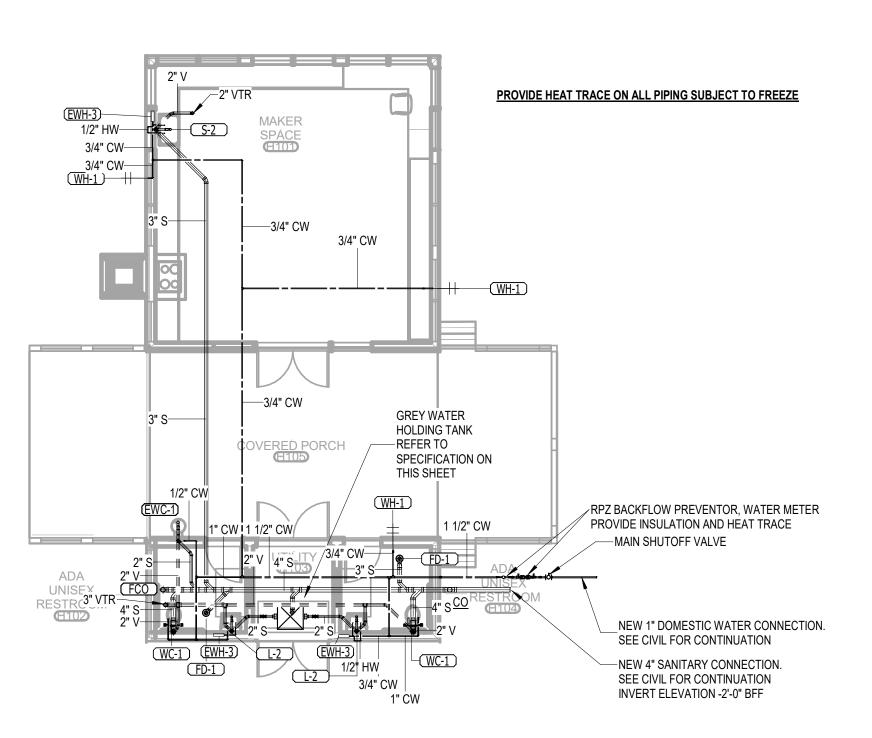
STEP 3: THE GREYWATER FLOWS THROUGH THE 1ST PROGRESSIVE FILTRATION CHAMBER (CH.1) THAT RETAINS MAJOR AND MEDIUM PARTICLES SUCH AS HAIR, LINT, PAPER, DETERGENT CLOGS AND OTHER IMPURITIES. (THE FILTER PADS: BLACK-LOW DENSITY, GREEN-MEDIUM DENSITY)

STEP 4: THE GREYWATER FLOWS THROUGH THE 2ND PROGRESSIVE FILTRATION CHAMBER (CH.2) THAT RETAINS MEDIUM AND SMALL PARTICLES (THE FILTER PADS: GREEN MEDIUM DENSITY, BLUE-HIGH DENSITY)

STEP 5: THE GREYWATER FLOWS THROUGH THE 3RD PROGRESSIVE FILTRATION CHAMBER (CH.3) THAT RETAINS SMALL AND MINOR PARTICLES (THE FILTER PADS: BLUE-HIGH DENSITY, GREY-SUPER HIGH DENSITY)



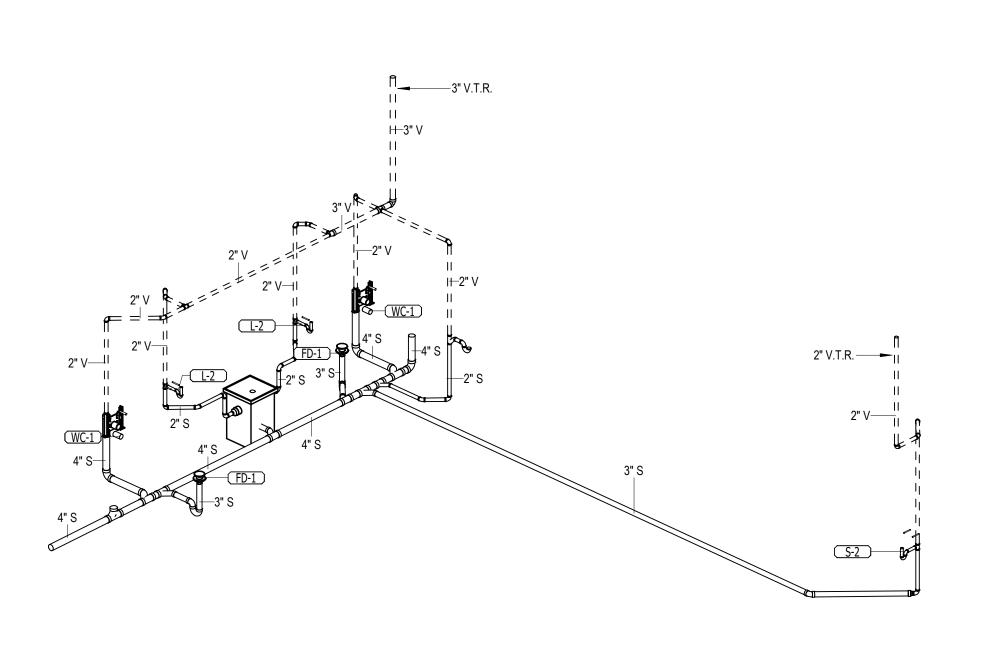




2 LEVEL 1 - MAKER - PLUMBING

1/8" = 1'-0"

PLUMBING SYMBOLS PLUMBING ABBREVIATIONS SYMBOL DESCRIPTION ABBREVIATION DESCRIPTION - CONDENSATE DRAIN PIPING COMPRESSED AIR CA -ABOVE FINISH FLOOR ____ _ _ ___CW : - DOMESTIC COLD WATER PIPING AW ACID WASTE ΑV ACID VENT _____ ___ HW__ __ _ _ _ _ - DOMESTIC HOT WATER PIPING CATCH BASIN CB _____ ___ HWR__ __ _ _ _ _ - DOMESTIC HOT WATER RETURN PIPING CONDENSATE DRAIN CD CFH CUBIC FEET PER HOUR - SANITARY WASTE PIPING CLEANOUT _ _ _ _ _ v_ _ _ _ _ _ - VENT PIPING CONT CONTINUATION DOMESTIC COLD WATER - STORM DRAIN PIPING DEIONIZED WATER DN - OVERFLOW STORM DRAIN PIPING DS DOWNSPOU⁻ - FUEL GAS PIPING DWG DRAWING EXIST **EXISTING** DEGREE FAHRENHEIT - HOSE BIBB OR WALL HYDRANT FLOOR CLEANOUT <u>co</u> [] - CLEANOUT PLUG FD FLOOR DRAIN FOF FUEL OIL FILL FOG FUEL OIL GAGE <u>co</u> [- WALL CLEANOUT FOR FUEL OIL RETURN FOS FUEL OIL SUPPLY - FLOOR CLEANOUT / EXTERIOR CLEANOUT FOV FUEL OIL VENT FLOOR SINK FOODSERVICE EQUIPMENT NUMBER FSE# FD 🌐 - FLOOR DRAIN GPH GALLONS PER HOUR - FLOOR SINK FS 📳 GPM **GALLONS PER MINUTE** DD IIII - DECK DRAIN KITCHEN WASTE (GREASE) HB HOSE BIBB HD HUB DRAIN - SHUT-OFF VALVE DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATING _____δ;_____ - BALL VALVE INVERT ELEVATION - CALIBRATED BALANCING VALVE _____ INDIRECT WASTE KW KILOWAT1 - CHECK VALVE (SWING) LBS POUNDS - PRESSURE REDUCING VALVE MH MANHOLE NORMALLY CLOSED NOT IN CONTRACT NO NORMALLY OPEN NON-POTABLE WATER NTS NOT TO SCALE **OUTSIDE DIAMETER** PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE PIPE - DETAIL REFERENCE **ROOF DRAIN** RECYCLED RAIN WATER RRW REDUCED PRESSURE BACKFLOW PREVENTOR SAN SANITARY SHOWN SD STORM DRAIN SQUARE FEET SHEET SH 4" S - PIPE TAG STORM OVERFLOW STORM DRAIN PIPE SIZE — PLUMBING SW SOFT COLD WATER SYSTEM VENT VAC -VACUUM - REVISION REFERENCE VACUUM CLEANING VENT THRU ROOF WCO WALL CLEANOUT WTR -NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT



PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS. CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL 11. FLASH AND COUNTER-FLASH ROOF PENETRATIONS. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR. 14. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE. 20. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE. 23. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-

COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWRAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL

PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM

INSTALL POINT OF USE MIXING VALVES FOR ALL HAND SINKS. BASIS OF DESIGN: ZURN AQUA

CONSUMPTION SHALL MEET NSF-61-G AND CONTAIN LESS THAN 0.25% (WEIGHTED AVERAGE) OF LEAD. ALL PRODUCTS SHALL BE LABELED WITH THE CERTIFICATION MARK NSF-61-G2 CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING REFER TO PLUMBING SPECIFICATION DOEMSTIC WATER PIPING FOR ADDITIONAL INFORAMTION.

NSF-61-G COMPLIANCE: PRODUCTS IN CONTACT WITH DOMESTIC WATER FOR HUMAN

SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED

DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)

PLUMBING GENERAL NOTES

REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.

UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-

BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND

NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION

FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS. WHICH ARE TO

NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE

DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE

THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.

WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING

LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.

REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.

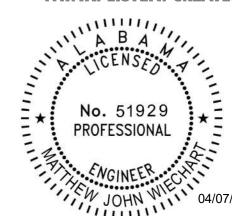
CONSTRUCTION, WILL BE NECESSARY.



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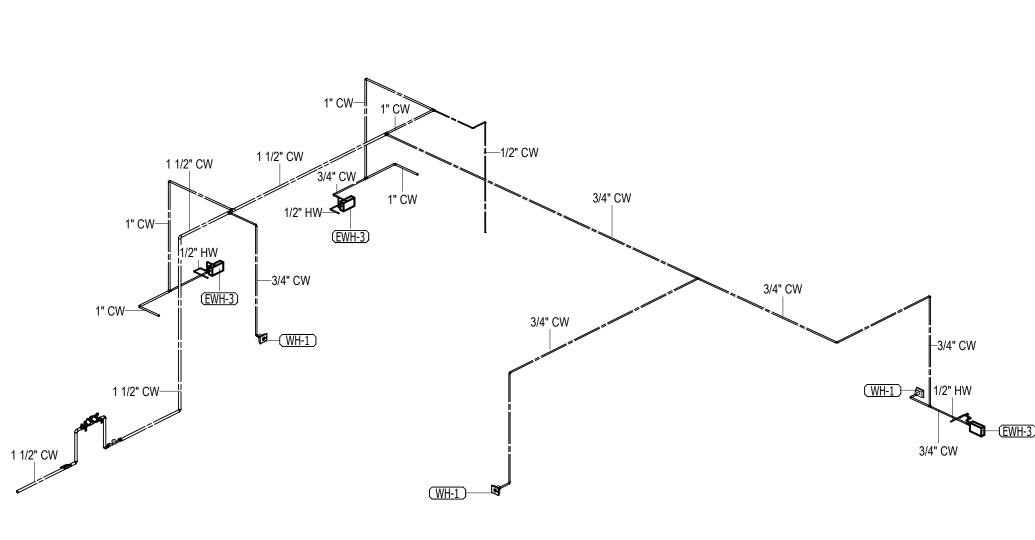
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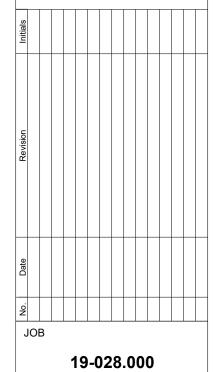
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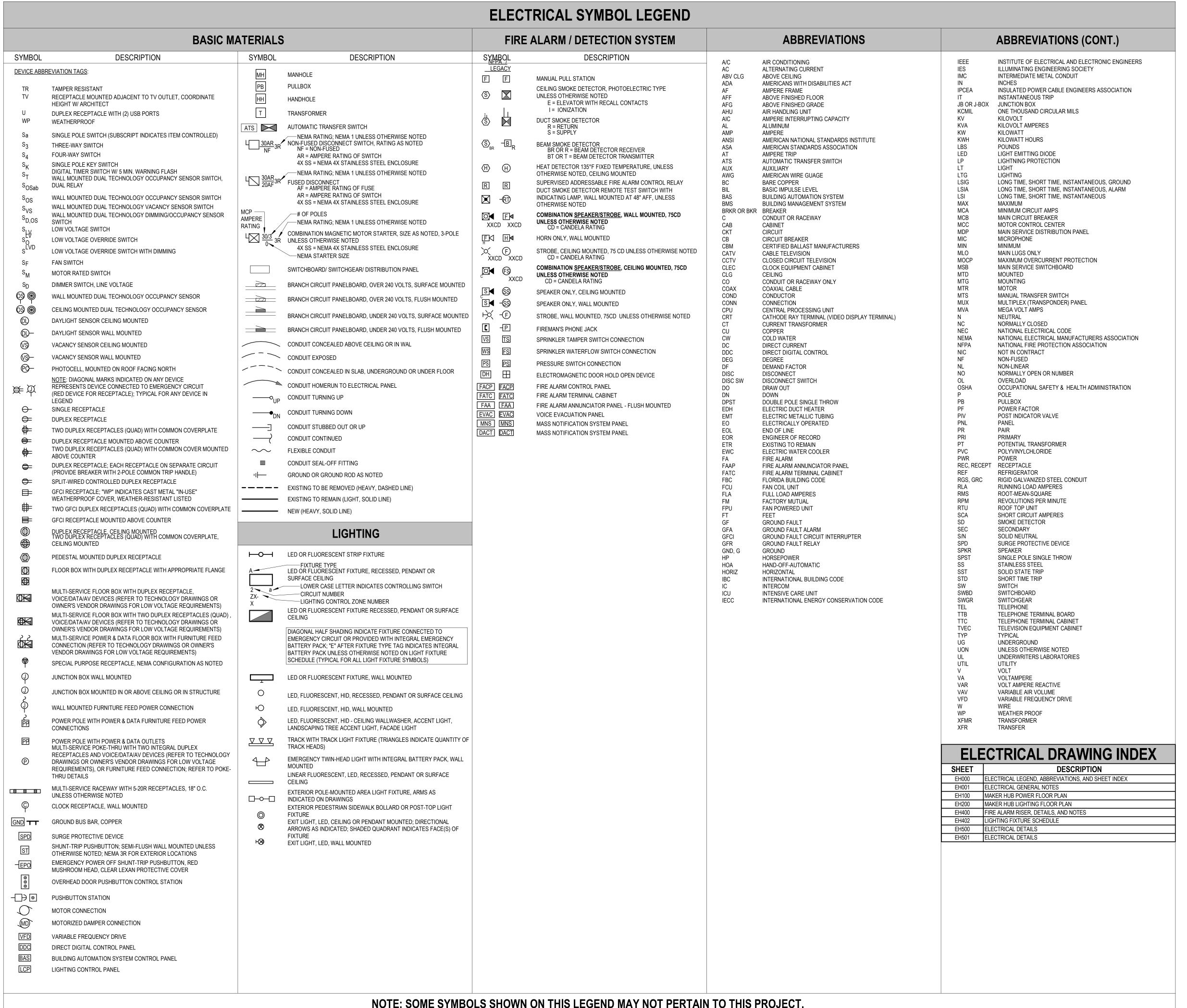
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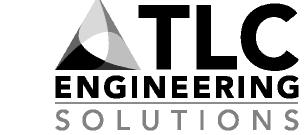
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MARCH 24, 2023

PLUMBING
SYMBOLS, LEGEND
NOTES AND INDEX
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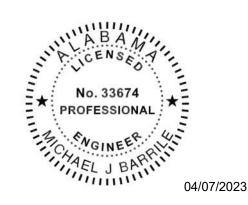




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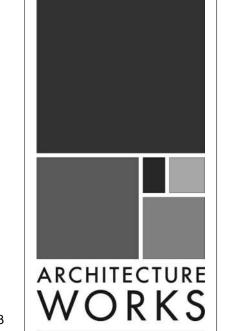
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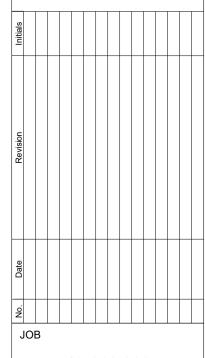
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LEGEND,
ABBREVIATIONS,
SHAND SHEET INDEX

- THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP. METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
- PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
- INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
- PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780, AND THE DIVISION 26 SPECIFICATIONS, UNLESS NOTED OTHERWISE. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE
- LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS IN ADVANCE PRIOR TO DIGGING, AT 1-800-432-4770.
- INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH FLORIDA STATUTES REGARDING MERCURY-CONTAINING DEVICES. AND WITH ALL DEP AND EPA APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL
- VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY
- VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS. MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS OTHERWISE NOTED.
- THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION
- ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
- WHERE STRUCTURAL WALLS ARE OF TILT-UP CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN TILT-UP WALLS DURING THE SHOP DRAWING REVIEW PROCESS OF THE TILT-UP WALLS, PRIOR TO MANUFACTURE OF THE TILT-UP WALLS.
- LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGHING IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
- COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS SO THAT A 120V 20A 5-20R RECEPTACLE IS LOCATED ADJACENT TO EACH VOICE/DATA OUTLET AND TV OUTLET INDICATED ON PLANS. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED ON PLANS.
- REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND KITCHEN EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
- WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER. OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
- CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTAL BID PRICE. SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
- 0. COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
- ANY TEMPORARY INTERRUPTION ON POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE
- 2. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
- CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR DAMAGE. ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS
- COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM A/E PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK.
- EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, WHETHER INDICATED ON THE CONTRACT DRAWINGS OR NOT.
- TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, WIREWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
- WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO 6' ABOVE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE
- PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC.
- PROVIDE A REINFORCED CONCRETE PAD. SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS.

- PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
- PROVIDE AFCI PROTECTION TO COMPLY WITH NEC IN ALL GUEST ROOMS AND GUEST SUITES
- WITH PROVISIONS FOR COOKING, IN ALL DWELLING UNITS, APARTMENTS AND CONDOMINIUMS. ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED, PANEL BOX, COVER & DOOR WHERE SURFACE MOUNTED).
- PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PANELBOARDS SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, LIGHTING PANELS SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM, TELECOMMUNICATIONS) EXITING THE BUILDING. PROVIDE MINIMUM 30A/3P BREAKER IN PANELBOARDS AND 60A/3P DISTRIBUTION PANEL OR SWITCHBOARD, UNLESS OTHERWISE NOTED,
- OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECTION DEVICE. 0. CONTRACTOR IS TO SUBMIT FOR APPROVAL TO THE ENGINEER OF RECORD FINAL COORDINATED SETTINGS REQUIRED FOR MAIN CIRCUIT BREAKER AND ALL DOWNSTREAM ADJUSTABLE OVERCURRENT PROTECTIVE DEVICES, BASED ON SELECTED EQUIPMENT MANUFACTURER.

<u>IDENTIFICATION</u>

- PROVIDE TYPED PANEL DIRECTORIES FOR ALL NEW PANELBOARDS, AND EXISTING PANELBOARDS AFFECTED BY THIS PROJECT. DIRECTORIES SHALL REFLECT PROJECT AS-BUILT CONDITIONS FOR ALL BRANCH CIRCUITS. DIRECTORIES SHALL INCLUDE WHERE EACH PANEL IS FED FROM. ADDITIONALLY, EACH BRANCH CIRCUIT LOAD DESCRIPTION SHALL INCLUDE THE ROOM NUMBER(S) FOR EACH LOAD SERVICE (I.E., RECEPTACLES-RMS 501,503). ROOM NUMBERS SHALL BE BASED ON ACTUAL ROOM SIGNAGE INSTALLED IN FIELD. COORDINATÉ EXACT ROOM NUMBERS WITH A/E AND
- PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, SWITCHGEAR DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, ETC., AND ANY OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM.

OWNER PRIOR TO COMPLETION OF PANEL DIRECTORIES.

- PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION AND ROOM NUMBER FOR EACH LOAD SERVICE.
- ARC FLASH DANGER/WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PANELBOARDS, AND EQUIPMENT CONTROLLERS PER NEC.
- PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
- PROVIDE NEATLY, HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF ALL JUNCTION BOXES PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) CONTAINED WITHIN. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.
- PROVIDE A PERMANENT LABEL ON ALL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROLS CENTERS AND DISTRIBUTION PANELS STATING "DO NOT WORK ON EQUIPMENT WHILE ENERGIZED. LOCK-OUT TAG-OUT REQUIRED".
- PROVIDE REQUIRED IDENTIFICATION PER ANSI STANDARDS, NEC REQUIREMENTS, AND OWNER'S PUBLISHED DESIGN STANDARDS WHERE APPLICABLE.

ELECTRICAL DEVICES, OUTLET BOXES, JUNCTION BOXES:

- LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
- RECEPTACLES. VOICE/DATA OUTLETS. WALL FURNITURE FEEDS SHALL BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED. ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE, UNLESS OTHERWISE NOTED.
- WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
 - ALL ELECTRICAL BOXES SHALL BE METALLIC.
 - BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
 - BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES

SQUARE INCHES PER 100 SQUARE FEET.

- ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
- PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY
- OF THE WALL RATING SHALL BE MAINTAINED. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100
- OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
- OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
- THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
- IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE FLUSH MOUNTED IN WALLS, CEILINGS OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS, CEILINGS, OR FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILINGS, AND NOT SURFACE MOUNTED, UNLESS SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS A/E GRANTS WRITTEN PERMISSION ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRICAL EQUIPMENT, OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS (CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY THE NEC, WHETHER INDICATED
- ON THE CONTRACT DOCUMENTS OR NOT. ALL DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED.
- ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP. WHERE DEVICES ARE SHOWN IN WALLS BACK-TO-BACK ON OPPOSITE SIDES, INSTALL SO THAT
- THEY ARE SEPARATED BY AT LEAST 12". RECEPTACLES OR JUNCTION BOXES FOR ELECTRIC WATER COOLERS SHALL BE LOCATED
- DIRECTLY BEHIND ELECTRIC WATER COOLER, CONCEALED FROM DIRECT VIEW. RECEPTACLES SHALL BE GFCI TYPE. JUNCTION BOXES FOR HARD-WIRED CONNECTION TO EWC SHALL BE CIRCUITED TO GFCI PROTECTED CIRCUIT BREAKER IN PANELBOARD. ALL EXTERIOR RECEPTACLES OR RECEPTACLES LOCATED IN AREAS SUBJECT TO MOISTURE
- (PARKING GARAGE, WASHDOWN AREAS IN KITCHEN, ETC) SHALL BE GFCI TYPE. ALL EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH CAST METAL, IN-USE COVER UNLESS NOTED OTHERWISE. ALL RECEPTACLES LOCATED IN KITCHENS, BATHROOMS OR WITHIN 6' OF THE INSIDE FACE OF A SINK, IN MECHANICAL ROOMS, JANITOR CLOSETS, ELEVATOR SHAFTS, ELEVATOR SUMP PUMP,
- AND ELEVATOR EQUIPMENT ROOMS SHALL BE GFCI TYPE OR GFCI PROTECTED ALL RECEPTACLES LOCATED IN DAY CARES, PEDIATRIC CLINICS OR AREAS, AND OTHER AREAS AS REQUIRED BY NEC AND STATE OF FLORIDA REQUIREMENTS FOR EDUCATIONAL FACILITIES SHALL BE **TAMPERPROOF** RACEWAYS:
- FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS WRITTEN PERMISSION.
- ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFIED NOTED OTHERWISE. THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E OR
- CONNECTIONS TO TRANSFORMERS, AHU'S, AND PUMPS SHALL BE WITH LIGUIDTIGHT, FLEXIBLE METAL CONDUIT NO PVC CONDUIT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGROUND, AND UNLESS OTHERWISE NOTED

OWNER GRANTS WRITTEN PERMISSION.

- ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING BUSHINGS AT ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E., EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR IN WALLS AND MILLWORK. WHERE EXISTING CONDITIONS DICTATE THAT CONDUITS CANNOT BE CONCEALED. NOTIFY ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR RESOLUTION TO
- SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK IN FIRE-RATED WALLS. WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME OR GREATER RATING OF WALL PENETRATED

- PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALL, CEILINGS AND ROOFS WHERE REQUIRED. COORDIANTE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS ARE TO BE SEALED
- 10. ALL RACEWAYS THAT TURN UP INTO THE SLAB OR ELECTRICAL EQUIPMENT FROM UNDERGROUND SHALL BE RIGID GALVANIZED STEEL (RGS) WITH BITUMASTIC COATING FOR AT LEAST THE FINAL 18" IN LENGTH. THE USE OF NON-METALLIC CONDUIT ABOVE GRADE IS PROHIBITED.
- PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES NOT EXCEED 3 PHASE CONDUCTORS. 3 NEUTRAL CONDUCTORS. AND 1 EQUIPMENT GROUND. THE HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS.
- 12. IT IS THE INTENT THAT ALL RACEWAYS BE CONCEALED IN WALLS, ABOVE CEILINGS, IN SLAB, OR BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE. OR UNLESS A/E GRANTS WRITTEN PERMISSION. WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM RACEWAY SIZE. AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 13. PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR WET ENVIRONMENTS SUCH AS WALK-IN COOLERS OR FREEZERS, KITCHEN WASH-DOWN AREAS, ETC. PROVIDE POLYOLEFIN JET-LINE #232 (NYLON PULL STRING) IN EACH EMPTY CONDUIT WITH
- ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION. MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- 16. SET SCREW FITTINGS SHALL BE USED FOR EMT CONDUIT.

- ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG, EXCEPT THAT BRANCH HOMERUNS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 120/208 VOLT CIRCUITS, AND HOMERUNS OVER 200' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 277/480 VOLT CIRCUITS. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW, BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR
- BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED A MAXIMUM OF 3% VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS:

#8 AWG

120V (BASED ON 1500W LOAD) MIN. CONDUCTOR SIZE CIRCUIT LENGTH INCREASE FOR VOLTAGE DROP 0 FT - 70 FT #12 AWG 71 FT - 115 FT #10 AWG 116 FT - 180 FT

181 FEET AND LONGER: SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL. 277V (BASED ON 4155W LOAD) MIN. CONDUCTOR SIZE CIRCUIT LENGTH INCREASE FOR VOLTAGE DROP

- 0 FT 140 FT #12 AWG 141 FT - 220 FT #10 AWG 221 FT - 350 FT #8 AWG
- 3. ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 75 DEG. F TEMPERATURE RATING LISTED IN NEC. 4. ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSED SO THAT EACH CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL.
- 5. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN, AND SOLID FOR #10 AWG AND SMALLER, AND STRANDED FOR #8 AWG AND LARGER.
- THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE PROHIBITED. ALL MATERIALS SHALL BE COPPER, UNLESS SPECIFICALLY NOTED OTHERWISE OR UNLESS A/E OR OWNER GRANTS WRITTEN PERMISSION.

GROUNDING:

- FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS EQUIPMENT GROUND.
- WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.
- PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.

<u>LIGHTING</u>:

- LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE
- LIGHT FIXTURE TO THE STRUCTURE ABOVE. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS. PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS
- OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER, VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO ARCHITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES.
- LIGHT FIXTURES RECESSED IN FIRE-RATED CEILINGS SHALL BE PROVIDED WITH APPROVED FIRE-RATED ENCLOSURE WITH A FIRE RATING EQUAL TO THAT OF THE CEILING. PROVIDE A MINIMUM OF 3" CLEARANCE FROM SIDES AND TOP OF RECESSED LIGHT FIXTURES.
- MODIFY ALL LIGHT FIXTURE CATALOG NUMBERS AS REQUIRED TO COORDINATE WITH THE LIGHTING BRANCH CIRCUIT VOLTAGES INDICATED. COORDINATE THE CATALOG NUMBERS WITH THE EXACT FIXTURE MOUNTING AND TRIM REQUIRED BY THE CEILING IN WHICH EACH FIXTURE IS BEING
- 3. ALL LIGHT FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, UNLESS OTHERWISE NOTED. ALL EXIT LIGHTS, LIGHT FIXTURES INDICATED WITH UNSWITCHED CIRCUIT (NIGHTLIGHT N/L), EMERGENCY TWIN-HEAD FIXTURES WITH INTEGRAL BATTERY PACKS, AND BATTERY PACKS INTEGRAL TO LIGHT FIXTURES, SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING OR LIGHTING
- CONTROLS PROVIDE UL WET LABEL OR IP67 RATED LIGHT FIXTURES FOR ALL FIXTURES LOCATED OUTSIDE OR IN PARKING GARAGES, IN SHOWERS, OR OPEN STRUCTURES.
- PROVIDE 0-DEGREE BALLASTS FOR EXTERIOR FLUORESCENT OR HID LIGHT FIXTURES. PROVIDE FUSING FOR ALL EXTERIOR LIGHT FIXTURES, OR FIXTURES IN PARKING GARAGES OR
- OPEN STRUCTURES. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNAGE REQUIRED DURING THE PROJECT CONSTRUCTION PHASE.
- 12. COORDINATE EXACT FOUNDATION AND/OR COMPACTING REQUIREMENTS FOR ALL POLE MOUNTED LIGHT FIXTURES WITH MANUFACTURER'S AND/OR INSTALLER'S STRUCTURAL ENGINEER. POLE BASES SHALL MEET OR EXCEED ALL WIND LOAD RATINGS, GUST FACTORS, IMPORTANCE FACTORS, ETC. REQUIRED BY NATIONAL AND/OR LOCAL CODES. SHOP DRAWINGS SHALL INCLUDES STRUCTURAL DRAWINGS FOR ALL POLE BASES, POLE, ASSEMBLY AND OVERTURN CALCULATIONS REQUIRED IN THIS PROJECT, SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.

- 13. WHERE THERE IS NO EMERGENCY GENERATOR/ LIFE SAFETY DISTRIBUTION BRANCH AVAILABLE, PROVIDE INTEGRAL BATTERY PACKS, RATED FOR A MINIMUM OF 90 MINUTES, FOR FIXTURES SHOWN WITH SOLID SHADING AND/OR WITH "E" AFTER FIXTURE TAG, AND FOR ALL EXIT LIGHTS, OR UNLESS OTHERWISE NOTED.
- REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES, DESCRIPTIONS, CATALOG NUMBERS AND ADDITIONAL INFORMATION PERTINENT TO THE LIGHT FIXTURE OR INSTALLATION
- COORDINATE LIGHT FIXTURE TRIM TYPE AND FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
- EACH LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL. 7. PROVIDE AS PART OF BID PRICE. AN ADDITIVE ALTERNATE FOR THE SERVICES OF AN
- INDEPENDENT COMMISSIONING AGENT FOR THE LIGHTING SYSTEM FUNCTIONAL TESTING. INCLUDING ALL REQUIRED REPORTS. WHERE OCCUPANCY SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULED LIGHTING CONTROLS, PHOTOSENSORS AND DAYLIGHTING CONTROLS ARE INSTALLED. THE FOLLOWING PROCEDURES SHALL BE PERFORMED: CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR
- OCCUPANCY SENSORS YIELD ACCEPTABLE PERFORMANCE. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULED LIGHTING CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR

CONTROLS REDUCE ELECTRIC LIGHT BASED ON AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS

MISCELLANEOUS CIRCUIT & INSTALLATION REQUIREMENTS:

SPECIFIED.

- THE INFRASTRUCTURE FOR THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE ACCESS CONTROL/ CCTV SYSTEM CONTRACTOR, COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS. SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
- THE INFRASTRUCTURE FOR THE VOICE/DATA TELECOMMUNICATIONS SYSTEM (CONDUITS. ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT AND COMPONENTS. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE TELECOMMUNICATIONS CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND
- QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN PROVIDE 120V 20A 5-20R RECEPTACLE AT ALL FAN COIL UNITS FOR CONDENSATE PUMP POWER AND HOT WATER RECIRCULATING PUMPS, WHETHER SHOWN ON PLANS OR NOT. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT.
- PROVIDE 120V CONNECTION TO ALL MOTORORIZED DAMPERS INDICATED ON MECHANICAL PLANS, WHETHER SHOWN ON DIVISION 26 DRAWINGS OR NOT. FIRE/SMOKE DAMPER CIRCUITS ARE TO BE PROVIDED FROM EMERGENCY BRANCH PANEL (LEGALLY REQUIRED BRANCH IF AVAILABLE). MOTORIZED DAMPERS WITHIN THE SAME AREA CAN BE CIRCUITED TO THE SAME CIRCUIT (I.E., DEDICATED CIRCUIT IS NOT REQUIRED)
- PROVIDE PHONE/DATA OUTLET WITH 1" RACEWAY, AND 120V RECEPTACLE ON DEDICATED CIRCUIT ADJACENT TO EACH AIR HANDLING UNIT FOR CONTROL POWER.
- PROVIDE 120V DEDICATED CIRCUIT TO EACH AIR HANDLING UNIT WITH SEPARATE CONNECTIONS T UNIT UV LIGHT, UNIT LIGHTS, UNIT RECEPTACLE, AND BI-POLAR IONIZATION FILTER WHERE PROVIDED. COORDINATE WITH DIVISION 23 SHOP DRAWINGS.
- ACCESS CONTROLLED DOOR POWER NOTE: ENSURE ALL 120V CONVENIENCE RECEPTACLE CIRCUITS UTILIZED FOR ACCESS CONTROL POWER SUPPLY ARE UNDER NORMAL OPERATION ALWAYS ENERGIZED AND NOT CONTROLLED THROUGH PLUG LOAD CONTROL / LIGHTING CONTROLS / EPO STATIONS. THIS IS APPLICABLE TO ALL ACCESS CONTROL NOTES THROUGHOUT
- THE ELECTRICAL SET. ENSURE ALL SHUNT TRIP RELAYS ARE CONTINUOUS DUTY RATED OR CONTAIN A SAFETY MECHANISM THAT ENSURES RELAYS GET DE-ENERGIZED AFTER ACTUATING TO PREVENT OVERHEATING.

FIRE ALARM SYSTEM NOTES

- ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED,
- MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STANDARD COPPER WITH MAXIMUM LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL
- BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR. SURVIVABILITY: A 1-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT
- UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE. MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48" TO HANDLE ABOVE FINISHED FLOOR.

PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM

- LAST DEVICE TO FACP UNLESS OTHERWISE NOTED. PROVIDE FIRE ALARM RELAY AND DUCT DETECTOR CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED
- ON ELECTRICAL OR MECHANICAL PLANS OR NOT. FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. 120V CIRCUIT SHALL BE FROM
- LIFE SAFETY BRANCH WHERE AVAILABLE. SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 15 MINUTES ALARM OPERATION AT MAXIMUM CONNECTED LOAD.
-). ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON"
- POSITION), MARKED AS "FIRE ALARM CIRCUIT". A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION. FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE
- 12. A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL MINIMUM CANDELA RATING OF STROBES IS 75; "110" ADJACENT TO DEVICE INDICATES 110

CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE

- STROBES ARE VISIBLE TO EACH OTHER.
- 14. ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM. 15. ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS. WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF.
- 17. SPEAKER/STROBES. HEAT DETECTORS OR MANUAL PULL STATIONS INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED BACKBOXES
- 18. SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE. 19. SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE

16. STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.

- DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS. 20. ALL SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 36" AWAY FROM ANY SUPPLY OR RETURN AIR VENTS OR DIFFUSERS.
- 21. DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.

- 22. HEAT DETECTORS SHALL BE ADDRESSABLE, FIXED TYPE @ 135 DEG F UNLESS OTHERWISE NOTED.
- 23. WHERE THERE IS A GENERATOR ON THE PROJECT, CIRCUIT THE REMOTE GENERATOR ANNUNCIATOR PANEL ALARM OUTPUTS TO FIRE ALARM CONTROL PANEL PER AUTHORITY HAVING JURISDICTION
- REQUIREMENTS PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS, STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR THE LOCAL AUTHORITY HAVING JURISDICTION/ FIRE
- MARSHALL. 25. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN), IN DIRECT AIR FLOW PATH, OR WITHIN 36" OF A SPRINKLER HEAD UNLESS NOTED OTHERWISE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTERLINE OF THE DOOR AND A MAXIMUM OF FIVE FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR SHALL BE THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".
- 26. PROVIDE LABELS FOR REMOTE ALARM INDICATORS FOR DUCT MOUNTED SMOKE DETECTORS (I.E., AHU-1 SUPPLY, AHU-2 RETURN FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED WITHIN 6 TO 10 EQUIVALENT DIAMETERS OF STRAIGHT. UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRE INLET OR OUTLET DOWNSTREAM OF THE DAMPER, AND WITHIN FIVE FEET OF THE FIRE/SMOKE WALL
- EQUIPMENT SHUT DOWN FIRE ALARM RELAYS SHALL BE LOCATED WITHIN THREE (3) FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- 28. FOR EACH FIRE/SMOKE DAMPER, INTERLOCK WITH FIRE ALARM CONTROL PANEL TO CLOSE FIRE/SMOKE DAMPER AND TO CONTROL THE ASSOCIATED MECHANICAL UNIT PER THE MECHANICAL SEQUENCE OF OPERATIONS, UNLESS NOTED OTHERWISE.
- 29. ALL NOTIFICATION APPLIANCES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.
- 30. FIRE ALARM CIRCUITS SHALL BE CLASS "B", STYLE "C" FOR INITIATION DEVICE CIRCUITS (IDC) AND CLASS "B" STYLE "Y" FOR NOTIFICATION DEVICE CIRCUITS (NAC), UNLESS OTHERWISE NOTED. CLASS "A" SHALL BE PROVIDED FOR WIRING FROM BUILNG TO BUILDING (CAMPUS).
- 31. SYSTEM SHALL BE AN ADDRESSABLE TYPE VOICE EVACUATION AND SHALL HAVE A SOUND PRESSURE LEVEL OF 15dB ABOVE AVERAGE AMBIENT SOUND LEVELS OR 5dB ABOVE MAXIMUM AMBIENT SOUND LEVEL, WHICHEVER IS GREATER.
- 32. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT; NO FIRE ALARM CONDUIT SHALL BE INSTALLED UNDER SLAB. PROVIDE MANUFACTURED RED CONDUIT UNLESS OTHERWISE NOTED.
- 33. CONTRACTOR/VENDOR SHALL PREPARE FLORIDA LICENSE P.E. WORKING DRAWINGS INCORPORATING THE FIRE ALARM CRITERIA DESIGN AND CONFIRMING TO AHJ REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL MATERIAL REQUIRED PER AHJ AND DESIGN CRITERIA FOR A FULLY FUNCTIONING AND PERMITTABLE FIRE ALARM SYSTEM. SUBMIT TO DESIGN PROFESSIONAL AS A SHOP DRAWING FOR REVIEW. SUBMIT COMPLETE SIGNED & SEALED DRAWINGS TO PERMITTING AGENCY AND FOR CERTIFICATE OF OCCUPANCY. COMPLETED FIRE ALARM CERTIFICATION SHALL BE PROVIDED TO OWNER AT COMPLETION OF CONSTRUCTION.
- 34. WHERE A FIRE ALARM RISER IS INDICATED, IT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO REPRESENT A COMPLETE WIRING AND DEVICE DISPLAY. ALL WIRING AND DEVICES SHALL BE IN ACCORDANCE WITH SELECTED VENDOR'S POINT-BY-POINT WIRING DIAGRAM. REFER TO FLOOR PLAN FOR DESIGN INTENT AND PROPOSED QUANTITY OF FIRE ALARM SYSTEM COMPONENTS.

WHERE THERE IS A DISCREPANCY **BETWEEN ABOVE GENERAL NOTES** AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL **BE FOLLOWED**

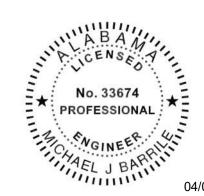
APPLICABLE CODES

- ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE
- CODES, STANDARDS AND PRACTICES LISTED HEREIN:
- LIFE SAFETY CODE, NFPA 101. UNDERWRITERS LABORATORIES, INC. (UL) PUBLICATIONS. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION.
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
- NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA). REQUIREMENTS OF LOCAL POWER COMPANY.
- THE AMERICANS WITH DISABILITIES ACT (ADA). OWNER'S PUBLISHED DESIGN STANDARDS. INTERNATIONAL BUILDING CODE.
- ICC 2021 ASHRAE 90.1 2013

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ARCHITECTURE

130 NINETEENTH STREET SOUT

BIRMINGHAM, ALABAMA 35233

TELEPHONE: 205.320.088

www.architectureworks.com

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

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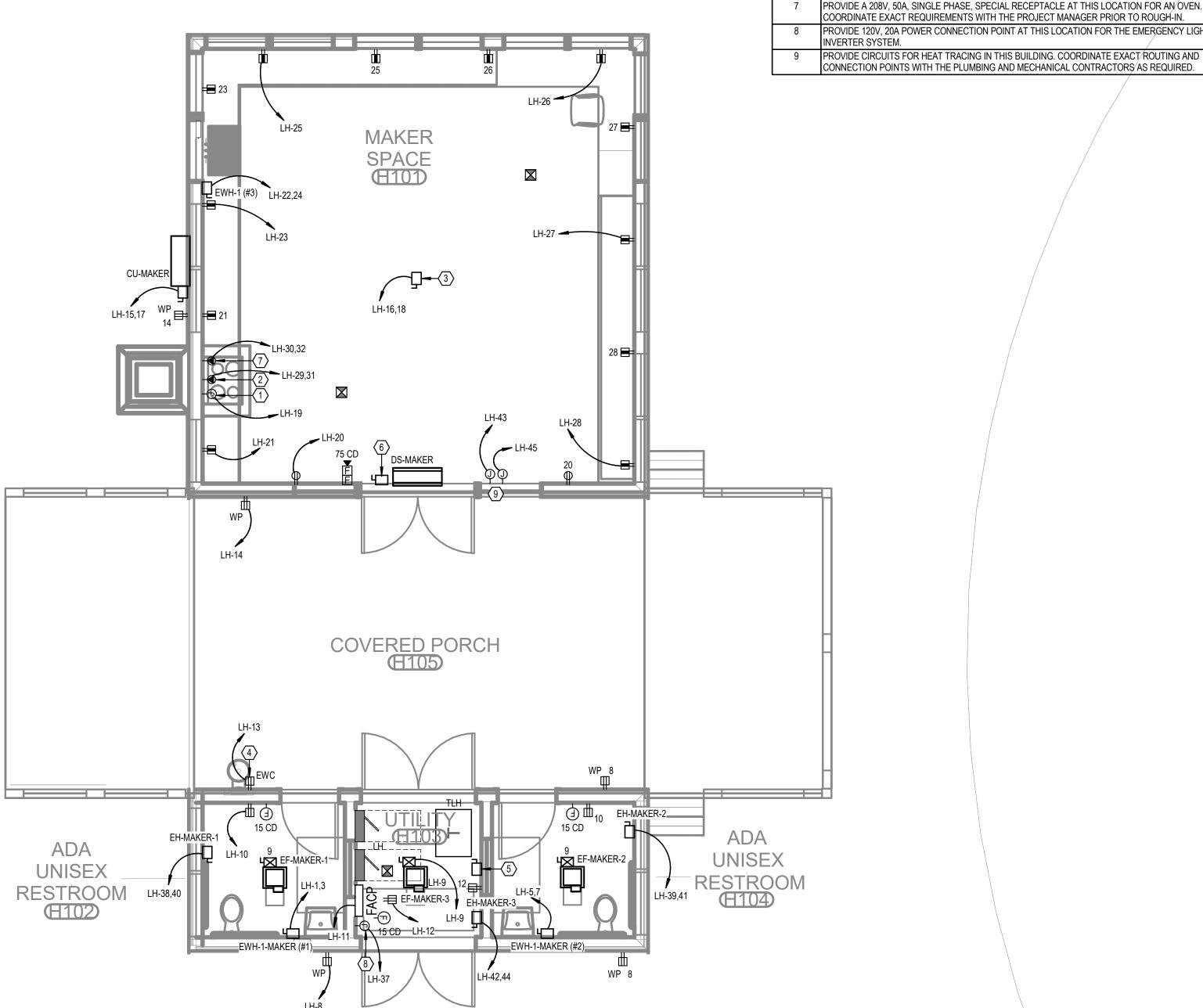
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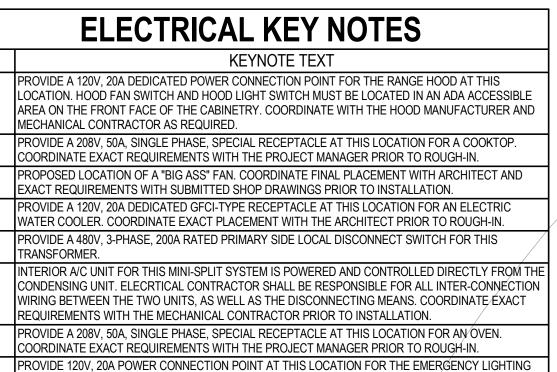
MARCH 24, 2023

CONFORMANCE SET

ELECTRICAL GENERAL NOTES



1 LEVEL 1 - MAKER HUB - POWER





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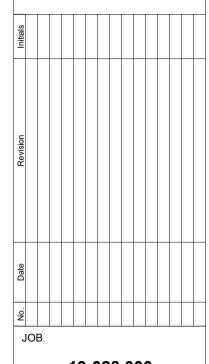
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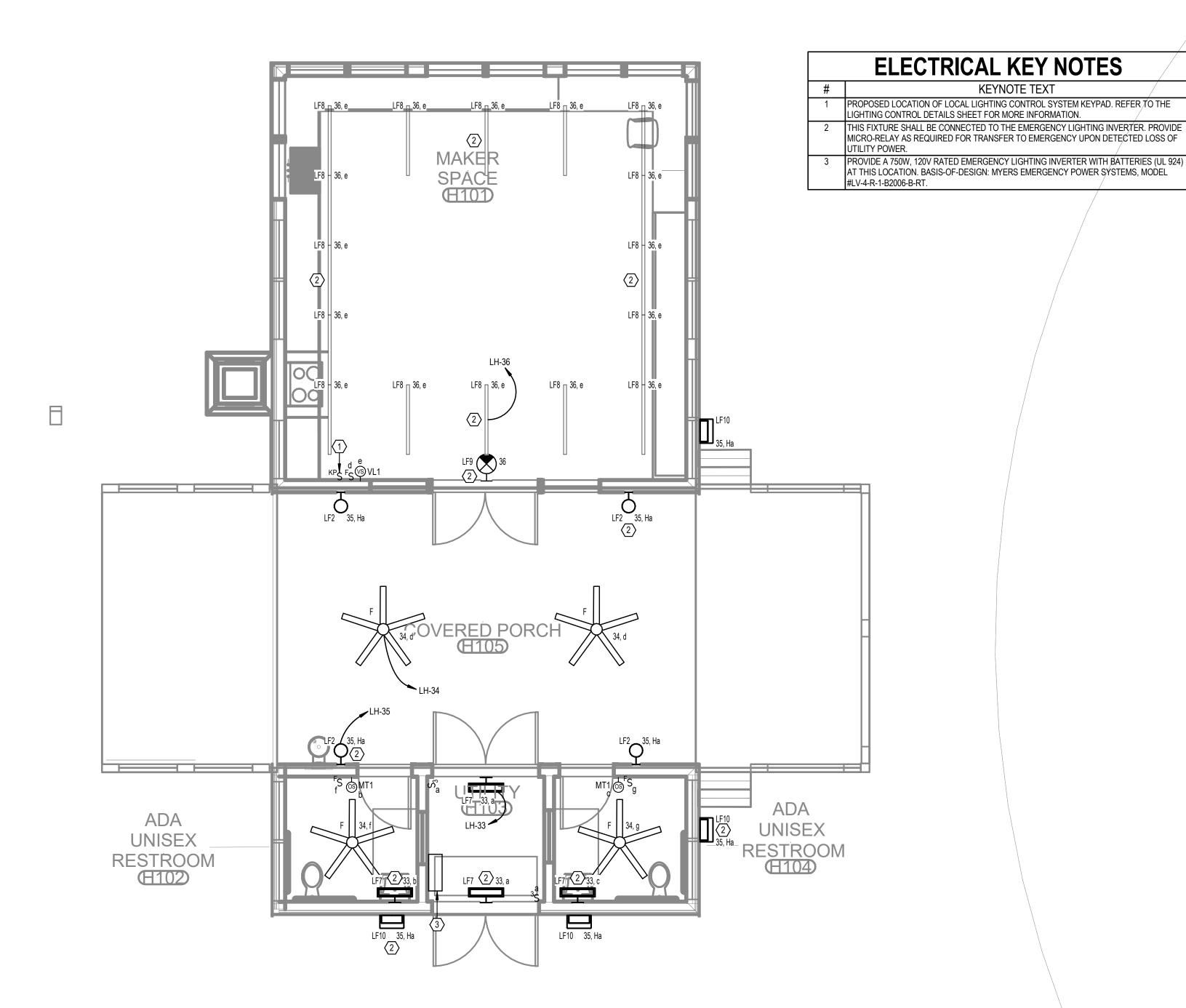
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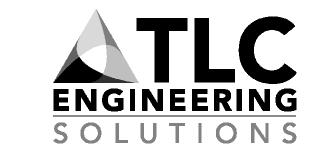
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MARCH 24, 2023

MAKER HUB POWER FLOOR PLAN



LEVEL 1 - MAKER HUB -1 LIGHTING 1/4" = 1'-0"



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KEYNOTE TEXT

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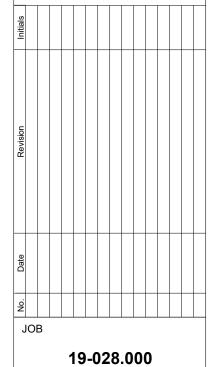
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PROJECT STATUS

CONFORMANCE SET

MARCH 24, 2023

MAKER HUB
LIGHTING FLOOR

	ELECTRICAL RISER KEY NOTES									
#	KEYED NOTE TEXT									
1	PROVIDE ALUMINUM CT METER ENCLOSURE PER UTILITY REQUIREMENTS.									
2	480/277V, 3-PHASE, PAD-MOUNTED UTILITY TRANSFORMER. REFER TO ELECTRICAL SITE PLANS FOR PLACEMENT. INSTALL PER BALDWIN EMC REQUIREMENTS.									
3	480/277V, 3-PHASE, 4-WIRE MAIN DISTRIBUTION PANEL. REFER TO PANEL SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.									
4	PROVIDE A SURGE PROTECTION DEVICE (SPD) AT EVERY PANEL LOCATION PER PLANS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.									
5	480/277V, 3-PHASE, 4-WIRE BRANCH PANELBOARD. REFER TO THE PANEL SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.									
6	480/277V TO 208/120V, DRY-TYPE, STEP-DOWN TRANSFORMER. REFER TO THE TRANSFORMER SCHEDULE THIS SHEET, AND THE SPECIFCATIONS FOR MORE INFORMATION.									
7	PROVIDE A PRIMARY SIDE DISCONNECTING MEANS FOR THIS TRANSFORMER PER THE PLANS AND SPECIFICATIONS.									
8	PROVIDE A MAIN SYSTEM GROUND PER NEC ARTICLE 250 AND THE SPECIFICATIONS.									
9	PROVIDE A GROUNDING POINT PER NEC ARTICLE 250 WHERE THE ELECTRICAL SYSTEM ENTERS THE BUILDING.									

TRANSF	ORMI	ER SCH	IEDULE	(COPP	ER WINDINGS)
			PRIMARY VOLTAGE	SECONDARY VOLTAGE	
TRANSFORMER	KVA	DUACE	'	(D=DELTA,Y=	GROUNDING ELECTRODE
NAME	RATING	PHASE	WYE)	WYE)	CONDUCTOR
TLF	30	3	480D	120/208Y	#6
TLG	45	3	480D	120/208Y	#6
TLH	75	3	480D	120/208Y	#2
TLW	75	3	480D	120/208Y	#2
TLM	30	3	480D	120/208Y	#6
TLFS	15	3	480D	120/208Y	#8
TLMS	30	3	480D	120/208Y	#6
TLJ	15	3	480D	120/208Y	#8



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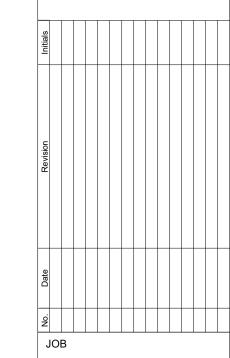
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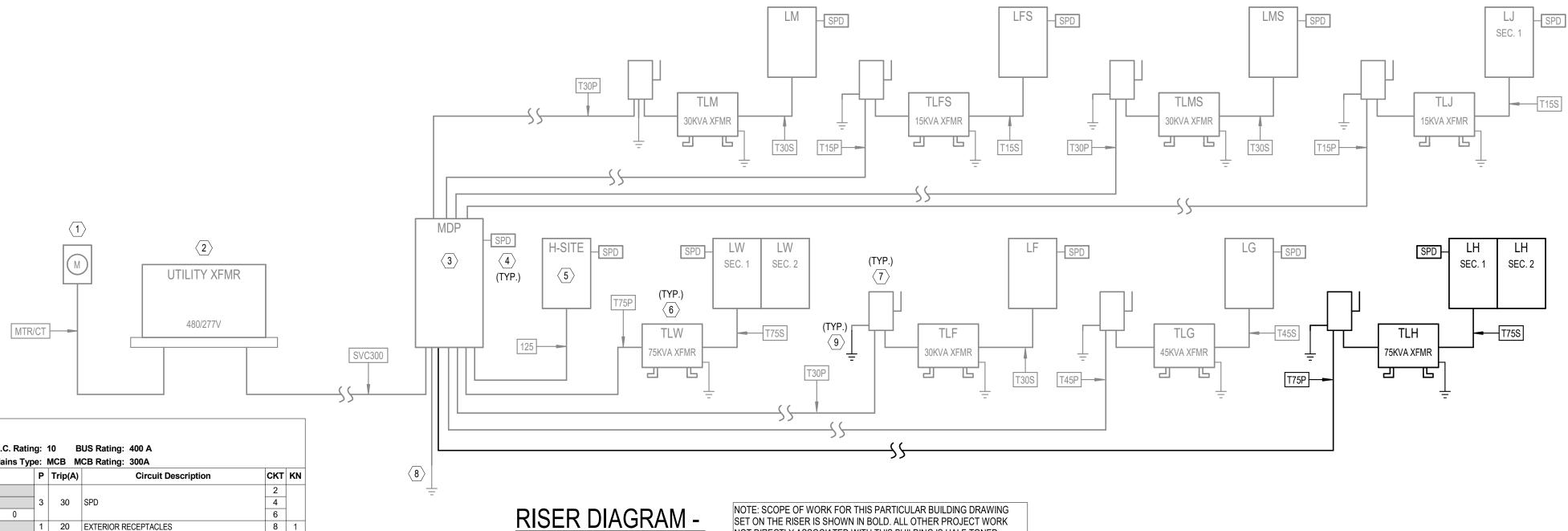
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PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023

SHEET ELECTRICAL RISER DIAGRAM & SCHEDULES

EH300



SET ON THE RISER IS SHOWN IN BOLD. ALL OTHER PROJECT WORK

NOT DIRECTLY ASSOCIATED WITH THIS BUILDING IS HALF-TONED.

		С	OPPER (CONDUC	TOR/FE	EEDER SCHEDULE
		PHASE	NEUTRAL	GROUNDING	CONDUIT	
		CONDUCTORS	CONDUCTORS	CONDUCTORS		
	NUMBER OF	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)	
SYMBOL	SETS	SIZE - AWG	SIZE - AWG	SIZE - AWG	` SIZE ´	REMARKS
125	1	(3) #1	(1) #1	(1) #6	(1) 1 1/2"	
MTR/CT	1				(1) 1-1/4"	GALVANIZED RIGID CONDUIT WITH WIRING AND MOUNTING PER UTILITY COMPANY REQUIREMENT
SVC300	1	(3) #350 KCMIL	(1) #350 KCMIL		(1) 3"	
T15P	1	(3) #10		(1) #10	(1) 3/4"	15KVA TRANSFORMER PRIMARY
T15S	1	(3) #4	(1) #4	(1) #8	(1) 1 1/4"	15KVA TRANSFORMER SECONDARY
T30P	1	(3) #6		(1) #10	(1) 1"	30KVA TRANSFORMER PRIMARY
T30S	1	(3) #1	(1) #1	(1) #6	(1) 1 1/2"	30KVA TRANSFORMER SECONDARY
T45P	1	(3) #4		(1) #8	(1) 1"	45KVA TRANSFORMER PRIMARY
T45S	1	(3) #1/0	(1) #1/0	(1) #6	(1) 2"	45KVA TRANSFORMER SECONDARY
T75P	1	(3) #2		(1) #6	(1) 1 1/4"	75KVA TRANSFORMER PRIMARY
T75S	1	(3) #4/0	(1) #4/0	(1) #2	(1) 2 1/2"	75KVA TRANSFORMER SECONDARY

	ELECTRICAL LOAD SUMMARY												
PANEL NAME	SUPPLIED FROM	AIC RATING	DEMAND (VA)	DEMAND (A)	VOLTAGE	PHASE	NO. OF SPACES/POLES	MAINS TYPE	ENCLOSURE TYPE				
			0 VA	Not Computed		Not Computed							
H-SITE	MDP	42	825 VA	1 A	480/277V	3	42	MLO	TYPE 1				
LF	TLF	10	11608 VA	32 A	208/120V	3	42	MCB	TYPE 1				
LFS	TLFS	10	3708 VA	10 A	208/120V	3	42	MCB	TYPE 1				
LG	TLG	10	24656 VA	68 A	208/120V	3	42	MCB	TYPE 1				
LH	TLH	10	58979 VA	164 A	208/120V	3	84	MCB	TYPE 1				
LJ	TLJ	10	2274 VA	6 A	208/120V	3	42	MCB	TYPE 1				
LM	TLM	10	18687 VA	52 A	208/120V	3	42	MCB	TYPE 1				
LMS	TLMS	10	32048 VA	89 A	208/120V	3	42	MCB	TYPE 1				
LW	TLW	22	65891 VA	183 A	208/120V	3	84	MCB	TYPE 1				
MDP		65	199467 VA	240 A	480/277V	3		MCB	TYPE 1				

						ELECTRICAL EQUIPM	ENT COO	RDINAT	ION SC	HEDULE	- MAKER	HUB				
								CIRCUIT	STARTER			DIS				
TAG	HP	LOAD	FLA (AMPS)	VOLTAGE	PHASE	CONDUIT/WIRE (AWG)	PANEL	NUMBER	NEMA SIZE	ENCLOS. TYPE	FURN. BY (DIV.)	SWITCH SIZE	NO. OF POLES	ENCLOS. TYPE	FURN. BY (DIV.)	COMMENTS
CU-MAKER		3952 VA	19A	208 V	1	3/4" CONDUIT WITH 3#10 AND 1#10 GROUND	LH	15,17				30A	2	NEMA 1	26	
EF-MAKER-1		6 VA	0.1A	120 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LH	9	00	NEMA 3R	26	20A	2	NEMA 3R	26	
EF-MAKER-2		6 VA	0.1A	120 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LH	9	00	NEMA 3R	26	20A	2	NEMA 3R	26	
EF-MAKER-3		6 VA	0.1A	120 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LH	9	00	NEMA 3R	26	20A	2	NEMA 3R	26	
EH-MAKER-1		1500 VA	7.2A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LH	38,40				30A	2	NEMA 1	26	
EH-MAKER-2		2250 VA	10.8A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LH	39,41				30A	2	NEMA 1	26	
EH-MAKER-3		2250 VA	10.8A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LH	42,44				30A	2	NEMA 1	26	
EWH-1-MAKER (#1)		8320 VA	40A	208 V	1	1" CONDUIT WITH 3#6 AND 1#8 GROUND	LH	1,3				60A	2	NEMA 1	26	
EWH-1-MAKER (#2)		8320 VA	40A	208 V	1	1" CONDUIT WITH 3#6 AND 1#8 GROUND	LH	5,7				60A	2	NEMA 1	26	

MAKER HUB

NO SCALE

S			ting: SURFAC	E			Wires: 120 Busing: Yes	_			_		BUS Rating: 400 A ICB Rating: 300A	
_	СКТ	I	Trip(A)	Р		A		В	1	C	_	Trip(A)	Circuit Description	СКТ
2	1	EWH-1 (#1)	50	2	4160	0	4160	0			3	30	SPD	2 4
2	5 7	- EWH-1 (#2)	50	2	4160	540			4160	0	1	20	EXTERIOR RECEPTACLES	6 8
2	-	EF-MAKER-1, 2, 3	20	1	4100	340	18	360			1	20	RESTROOM RECEPTACLES	10
1		FIRE ALARM	20	1					400	360	1	20	ELECTRICAL ROOM RECEPTACLES	12
1	13	WATER COOLER	20	1	600	360					1	20	EXTERIOR RECEPTACLES	14
2	15 17	CU-MAKER	30	2			1976	750	1976	750	2	20	BIG ASS FAN	16 18
1		RANGE HOOD	20	1	200	360					1	20	GENERAL RECEPTACLES	20
1	21	COUNTERTOP RECEPTACLES	20	1			360	4160				50	F)A(I,1.4 (#2)	22
1	23	COUNTERTOP RECEPTACLES	20	1					360	4160	2	50	EWH-1 (#3)	24
1		COUNTERTOP RECEPTACLES	20	1	360	360					1	20	COUNTERTOP RECEPTACLES	26
1	27	COUNTERTOP RECEPTACLES	20	1			360	360			1	20	COUNTERTOP RECEPTACLES	28
3	29 31	СООКТОР	60	2	4800	4800			4800	4800	2	60	OVEN	30
1	33	RESTROOM / UTILITY ROOM LIGHTING	20	1			320	240			1	20	OUTDOOR CEILING FANS	34
1	35	EXTERIOR LIGHTING	20	1					207	579	1	20	MAKER SPACE LIGHTING	36
1	37	EM LIGHTING INVERTER	20	1	500	750					2	15	EH-MAKER-1	38
2	39 41	EH-MAKER-2	15	2			1125	750	1125	1125		10		40 42
1		HEAT TRACE	20	1	1000	1125			1120	1123	2	15	EH-MAKER-3	44
1		HEAT TRACE	20	1		1.20	1000	0			1	20	SPARE	46
	47	SPARE	20	1					0	0	1	20	SPARE	48
	49	SPARE	20	1	0	0					1	20	SPARE	50
		SPACE		1							1		SPACE	52
	53	SPACE		1					-		1		SPACE	54
		SPACE		1							1		SPACE	56
	57 59	SPACE SPACE		1							1		SPACE SPACE	58 60
	61	SPACE		1					-		1		SPACE	62
		SPACE		1							1		SPACE	64
		SPACE		1							1		SPACE	66
	67	SPACE		1							1		SPACE	68
	69	SPACE		1							1		SPACE	70
	71	SPACE		1							1		SPACE	72
		SPACE		1							1		SPACE	74
		SPACE SPACE		1							1		SPACE SPACE	76 78
		SPACE		1							1		SPACE	80
		SPACE		1							1		SPACE	82
		SPACE		1							1		SPACE	84
		Connected	Phase Load (K\	, r		075		939		648			1000	
Ωa	ıd CI	Connecte assification	ed Phase Amps	<u> </u>	211 ted Loa	.056	132 Demand F	2.825 actor		.829 nd Load	4		Panel Totals	
	ment		30		60 VA		100.00%			560 VA			T differ l'Otalo	
	ΓING				0 VA		100.00%			00 VA		Total	Connected Load (KVA): 64.661	
ighti					8 VA		100.00%			08 VA			tal Demand Load (KVA): 58.979	
Other				400) VA		100.00%)	400 VA				tal Demand Current (A): 164	
Rece	ptacle			2334	10 VA		71.42%		160	670 VA				
IVAC)			417	0 VA		123.69%)	51	58 VA				

Panel Keynotes (KN):

1. (2)#12 AWG CU THWN & (1)#12 AWG CU (EG) IN 3/4" CONDUIT. 2. REFER TO ELECTRICAL EQUIP. COORD, SCHEDULE 3. (2)#6 AWG CU THWN & (1)#6 AWG CU (EG) IN 3/4" C.



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PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023

FIRE ALARM RISER, **DETAILS, AND** NOTES

EH400

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

No Scale

TYPE OF SYSTEM:

- FULLY ADDRESSABLE FIRE ALARM SYSTEM AND STANDBY BATTERY MONITORED BY CENTRAL STATION
- VOICE EVACUATION WITH PRE-RECORDED DIGITAL MESSAGE AND MANUAL ANNOUNCEMENT

- 24 HOURS OF STANDBY, 5 MINUTES OF ALARM USED FOR BATTERY CALCULATIONS

- VIA MICROPHONE TYPE OF CIRCUITS:
- SIGNALING LINE CIRCUIT (SLC) = CLASS B, SURVIVABILITY LEVEL 0
- NOTIFICATION APPLIANCE CIRCUIT (NAC) = CLASS B, SURVIVABILITY LEVEL 0

WIRING METHOD:

- "FPLR" CABLE IN CONDUIT.

- WET LOCATION LISTED CABLE FOR UNDERGROUND, SLAB, AND UNCONDITIONED SPACE CONDUIT.

GENERAL ALARM SEQUENCE:

- ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION DEVICES (SPEAKERS AND STROBES) TO ACTIVATE THROUGHOUT THE BUILDINGS. ALL ALARM CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL (FACP) AND REMOTE ANNUNCIATOR AND WILL BE TRANSMITTED TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.

- SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A SUPERVISORY CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.

- TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A TROUBLE

CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY. - SPRINKLER FLOW SWITCH: THE FIRE PROTECTION SPRINKLER SYSTEM MAIN FLOW SWITCH SHALL BE CONNECTED AS AN ALARM INITIATING DEVICE AND SHALL BE ANNUNCIATED SEPARATELY. FIRE PROTECTION SPRINKLER SYSTEM ZONE FLOW SWITCHES SHALL BE CONNECTED AS AN AUTOMATIC INITIATING DEVICE AND EACH SWITCH SHALL BE SEPARATELY ANNUNCIATED.

- SPRINKLER FLOW SWITCH SHALL TRANSMIT A SEPARATE ALARM SIGNAL FROM OTHER ALARM

- SPRINKLER SYSTEM TAMPER SWITCH: TAMPER SWITCHES CONNECTED TO THE VALVES OF THE FIRE PROTECTION SYSTEM SHALL BE ANNUNCIATED AS SUPERVISORY CONDITION. - ALL SIGNALS SHALL BE ANNUNCIATED AT THE

ALARM SILENCE:

- AUDIBLE NOTIFICATION DEVICES MAY BE SILENCED. - VISUAL DEVICES WILL REMAIN ON UNTIL THE SYSTEM IS RESET.

INITIATING DEVICE OPERATIONS:

- PULL STATIONS WILL CAUSE A GENERAL ALARM.

- SPRINKLER FLOW SWITCHES WILL CAUSE A GENERAL ALARM.

- DUCT DETECTORS WILL CAUSE A SUPERVISORY CONDITION.

- ANY TAMPER SWITCH WILL CAUSE A SUPERVISORY CONDITION.

- SMOKE/HEAT DETECTORS WILL CAUSE A GENERAL ALARM AFTER AN ALARM VERIFICATION PROCESS.

AUTOMATICALLY RETURN TO NORMAL OPERATION STATUS.

AUXILIARY CONTROLS: - AIR HANDLING UNITS CONTROLLED BY THE FIRE ALARM SYSTEM WILL SHUTDOWN THROUGHOUT THE BUILDING ON AN ALARM CONDITION.
UPON SILENCING FIRE ALARM SYSTEM HVAC SYSTEM SHALL

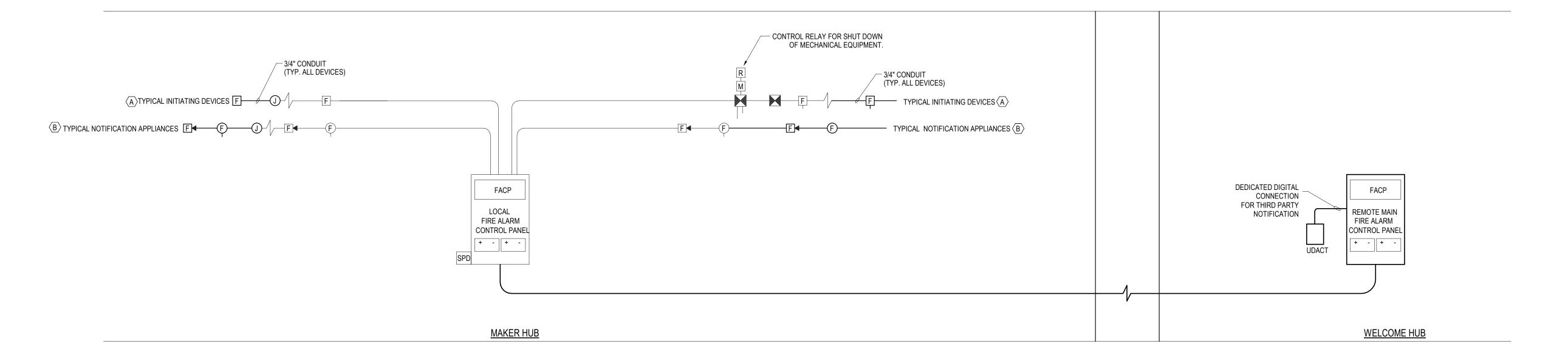
FIRE ALARM SYSTEM WIRE SCHEDULE

- A SIGNALLING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS B / SURVIVABILITY LEVEL 0
- NOTIFICATION APPLIANCE CIRCUIT: 2 CONDUCTOR #14 AWG, SOLID, SHIELDED CABLE. TYPE "FPLR" CABLE. CLASS B / SURVIVABILITY LEVEL 0
- (IDC): 2 CONDUCTOR #18 AWG, SOLID, SHIELDED TWISTED PAIRS. TYPE "FPLR" CABLE.
- SIGNALLING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS A / SURVIVABILITY LEVEL 3. (INTER-BUILDING)

- * FIRE ALARM SYSTEM WIRING SHALL BE POWER LIMITED.
- * ALL WIRING BELOW GRADE TO BE LISTED FOR WET LOCATIONS.
- * REFER TO POWER AND SYSTEMS PLANS FOR DEVICE LOCATION AND QUANITY. * ALL STROBES SHALL BE 75cd MINIMUM UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.

FIRE ALARM NOTES:

- 1. ALL EQUIPMENT AND DEVICES SHALL BE U.L. LISTED.
- 2. ALL WIRING SHALL CONFORM TO NFPA 72 AND NEC ARTICLE 760 USING FPLR COPPER CABLING IN CONDUIT.
- 3. COLOR CODING AND PROPER LABELING SHALL APPLY TO ALL SYSTEMS WIRING.
- 4. ROUTE FIRE ALARM SYSTEM CONDUIT ACCORDING TO FIRE ALARM CONTRACTOR SHOP DRAWINGS. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
- ALL FIRE ALARM VISUAL SIGNALS IN OPEN AREA SHALL HAVE A THREE PLUS TEMPORAL PATTERN. MULTIPLE STROBES SIMULTANEOUSLY IN VIEW SHALL BE SYNCHRONIZED.
- ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL, WHICHEVER IS GREATER.
- MOUNT FIRE ALARM SYSTEM STROBES AND HORN/STROBES AT 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER.
- 8. SMOKE DETECTOR INSTALLATIONS SHALL BE AS PER NFPA 72.
- 9. ADDRESSABLE MONITOR MODULES SHALL BE PROVIDED WITHIN 3' OF ANY NON-ADDRESSABLE INITIATING DEVICES.
- 10. FIRE ALARM CONTROL PANEL SHALL INCLUDE BATTERIES.
- 11. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
- 12. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SHOP DRAWINGS (INCLUDING DEVICE CUT-SHEETS). A COMPLETE POINT TO POINT WIRING DIAGRAM, COMPLETE BATTERY CALCULATIONS, & VOLTAGE DROP CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AT THE TIME OF APPLICATION FOR BUILDING PERMIT.
- 13. PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM OPERATING AND INSTALLATION MANUAL COVERING ALL SYSTEM EQUIPMENT INSTALLED FOR THIS PROJECT. KEEP AT THE FIRE ALARM CONTROL PANEL.
- 14. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN OFFSITE CENTRAL STATION.
- 15. PROVIDE A SURGE PROTECTION DEVICE (SPD) AT ALL POINTS WHERE CLASS A WIRING LEAVES AND ENTERS ANY BUILDING.



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No. Date Revision Initials

OB

19-028.000

PROJECT STATUS

CONFORMANCE SET

DATE

MARCH 24, 2023

LIGHTING
CONTROLS, NOTES,
AND SCHEDULES

EH401

LIGHTING CONTROL SYSTEM SPECIFICATIONS

1. LIGHTING CONTROL SYSTEM SHALL BE DIGITAL AND CONSIST OF A MASTER LCP WITH UP TO 32 INDIVIDUAL RELAYS, SLAVE LCPS WITH UP TO 32 INDIVIDUAL RELAYS IN EACH PANEL, A MICRO LCP WITH UP TO 4 INDIVIDUAL RELAYS, WHICH CAN BE SWITCHABLE OR 0-10VDC DIMMABLE, DIGITAL SWITCHES AND DIGITAL INTERFACE CARDS. ALL SYSTEM COMPONENTS SHALL CONNECT IN A "DAISY CHAIN" STYLE CONFIGURATION AND BE CONTROLLED VIA CATEGORY 5 PATCH CABLE WITH RJ45 CONNECTORS, PROVIDING REAL-TIME TWO WAY COMMUNICATION WITH EACH SYSTEM COMPONENT. ANALOG SYSTEMS ARE NOT ACCEPTABLE. ALL CABLES SUPPLIED BY CONTRACTOR.

2. RELAY PANELS SHALL BE PRE-WIRED, PRE-ASSEMBLED, PROGRAMMED TO OWNER REQUIREMENTS, AND LISTED TO UL 936 (EMERGENCY LIGHTING RELAYS INTERMIXED). PANELS SHALL BE PROVIDED WITH DUAL VOLTAGE POWER SUPPLY AND 16 GAGE BARRIERS TO SEPARATE HIGH AND LOW VOLTAGE POWER.

3. STANDARD RELAYS SHALL HAVE NORMALLY CLOSED (NC) CONTACTS RATED FOR 120/277V 20A TUNGSTEN OR BALLAST. STANDARD RELAYS SHALL BE ZERO-CROSS TYPE, NO EXCEPTIONS. OPTIONAL 600V, 200 POLE RELAY, NO OR NC, AND 347 SINGLE POLE RELAY SHALL BE AVAILABLE.

4. RELAY PANEL ELECTRONICS SHALL PROVIDE CURRENT VISUAL STATUS AND CONTROL OF EACH RELAY OR ZONE. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN A NON-VOLATILE MEMORY AND PROVIDE 10 YEAR BATTERY BACK UP FOR TIME OF DAY.

5. LIGHTING CONTROL PANEL SHALL CONSIST OF A MASTER AND SLAVE PANEL(S) CONTROLLED BY A 32-CHANNEL DIGITAL TIME CLOCK (DTC) THAT CONTROLS AND PROGRAMS THE ENTIRE LIGHTING CONTROL SYSTEM. THE DTC SHALL SUPPLY ALL TIME FUNCTIONS AND ACCEPT OTHER INPUTS. THE DTC SHALL ACCEPT CONTROL LOCALLY USING BUILT IN BUTTON PROMPTS AND USE OF AN 8 LINE 21-LETTER DISPLAY, FROM A COMPUTER, MODEM, ETHERNET OR INTERNET. ALL COMMANDS SHALL BE IN PLAIN ENGLISH. HELP PAGES SHALL DISPLAY ON THE DTC SCREEN.

6. ALL SWITCHES SHALL COMMUNICATE VIA RS485, CAT 5 PATCH CABLE WITH RJ45 CONNECTORS. CONTACT CLOSURE STYLE SWITCHES ARE NOT ACCEPTABLE. ANY SWITCH BUTTON FUNCTION SHALL BE ABLE TO BE CHANGED LOCALLY (AT THE DTC OR A PC) OR REMOTELY, VIA MODEM ETHERNET OR INTERNET. REFER TO SINGLE LINE DRAWING FOR WIRING DETAILS. SWITCHES WHICH CANNOT BE PROGRAMMED REMOTELY SHALL NOT BE ACCEPTABLE.

7. PHOTOCELL, EXTERIOR (PCO) OR INTERNET (PCI), SHALL PROVIDE READOUT ON THE DTC SCREEN IN NUMBER VALUES ANALOGOUS TO FOOT CANDLES. EACH PHOTOCELL SHALL PROVIDE A MINIMUM OF 14 TRIGGER POINTS. EACH TRIGGER CAN BE PROGRAMMED TO CONTROL ANY RELAY OR ZONE. EACH TRIGGER SHALL BE SET THROUGH DTC, LOCALLY OR REMOTELY. PHOTOCELLS THAT REQUIRE THE USE OF SET SCREWS OR MANUAL ADJUSTMENTS AT THE PHOTOCELL CONTROL CARD SHALL NOT BE ACCEPTABLE.

8. STANDARD LIGHTING CONTROL SYSTEM SOFTWARE, PRE-INSTALLED INTO THE DTC, SHALL CONSIST OF AND USE STANDARD GRAPHICAL MANAGEMENT SOFTWARE (GMS) PAGES. GMS SHALL PROVIDE VIA LOCAL OR REMOTE PC A VISUAL REPRESENTATION OF EACH DEVICE ON THE BUS, SHOW REAL TIME STATUS AND THE ABILITY TO CHANGE THE STATUS OF ANY INDIVIDUAL DEVICE, RELAY OR ZONE. OPTIONAL SOFTWARE THAT ACCEPTS JOB SPECIFIC GRAPHICS SHALL BE AVAILABLE. NO EXCEPTIONS.

9. TELEPHONE FACTORY DIAL-UP SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER BOTH DURING AND AFTER THE 3 YEAR WARRANTY PERIOD. FACTORY TO PREPROGRAM THE LIGHTING CONTROL SYSTEM PER PLANS AND APPROVED SUBMITTAL. THE LIGHTING CONTROL MANUFACTURER, AT NO ADDED COST, SHALL PROVIDE ADDITIONAL PROGRAMMING VIA MODEM AS REQUIRED BY THE EC OR OWNER FOR THE OPERATIONAL LIFE OF THE SYSTEM. MANUFACTURER WARRANTS THE DTC SOFTWARE CAN BE UPGRADED AND MONITORED REMOTELY. NO EXCEPTIONS.

10. SHOP DRAWINGS: SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, DTC, PHOTOCELLS AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE. INDICATE ALL TIME SCHEDULES AND SWITCH BUTTON ENGRAVING.

11. LIGHTING CONTROL SYSTEM SHALL ACCOMMODATE DAYLIGHT HARVESTING THROUGH DAYLIGHTING

NOTE:

TYPICAL LIGHTING RELAY PANEL

120/277V INPUTS FOR

PANEL ELECTRONICS

NEUTRALS SHALL BE ROUTED

THROUGH GUTTER

GUTTER

ALL LIGHTING ZONES/RELAYS ARE INDIVIDUALLY PROGRAMMABLE, FOR CONTROL BY BUILDING AUTOMATION SYSTEM INTEGRAL ELECTRONIC CLOCK, PHOTOCELL OR MANUAL OVERRIDE.

RELAY

CONTRACTOR TO PROVIDE PHOTO CELL, AND

LOCAL OVERRIDE SWITCHES, INCLUDING

CONDUIT AND WIRE.

VOLTAGE BARRIER

(MASTER PANEL ONLY)

16 OR 32 RELAY CONTROL CARD

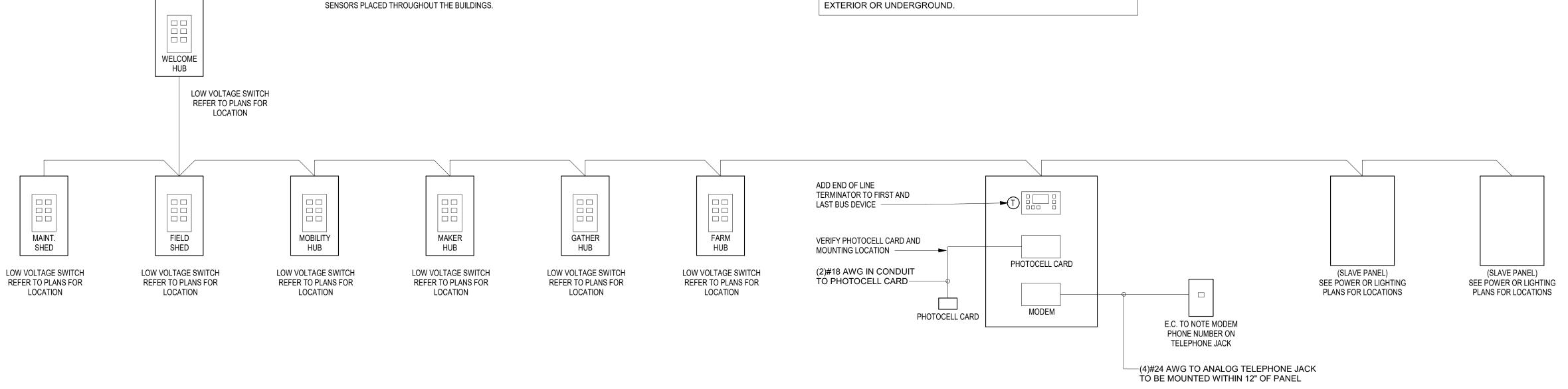
BUS CONNECTORS

16 GAGE STEEL

HIGH / LOW

DTC CLOCK

2. REFER TO MANUFACTURER PROVIDED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



TYPICAL BRANCH

ALL MAKE UP WORK TO BE DONE IN LINE

BREAKER— CONDUCTOR—

NEUTRAL BAR

NOTE: COORDINATE CONTROL ZONE & SWITCHING LAYOUT WITH OWNER

NOTE: CONTRACTOR SHALL PROVIDE SEEMLESS CONNECTIVITY AMONG

PANELS, AND FIXTURES DESIGNATED WITH RELAY-BASED SWITCH LEGS.

PROVIDE SURGE PROTECTION DEVICES (SPD'S) AT ALL POINTS WHERE

LIGHTING CONTROL SYSTEM WIRING ENTERS ANY BUILDING FROM THE

ALL THE BUILDINGS SHOWN WITH KEYPADS, LIGHTING CONTROL

PRIOR TO PROGRAMMING & INSTALLATION.

VOLTAGE GUTTER

MAIN LUG OR MAIN BREAKER ——

PANELBOARD

OCCUPANCY / VACANCY SENSOR SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER	MODEL	Type Comments							
DTL	CEILING MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR	GREENGATE WATTSTOPPER ACUITY	OAC-DT-2000-MV DT-355 CMR-PDT-9/10	AUTO ON / AUTO OFF - PROVIDE POWER PACKS AND OTHER ANCILLIARY ITEMS AS REQUIRED							
MT1	WALL-MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR WITH SINGLE LEVEL CONTROL	GREENGATE WATTSTOPPER ACUITY LEVITON	ONW-D-1001-MV DSW-100 WSX-PDT-XX OSSMT-MDW	AUTO ON / AUTO OFF WITH PUSH-BUTTON OVERRIDE							
Standard 2											
VL1	WALL-MOUNTED, LINE VOLTAGE, DUAL TECHNOLOGY VACANCY SENSOR WITH SINGLE LEVEL CONTROL	GREENGATE WATTSTOPPER ACUITY LEVITON	VNW-D-1001-MV DSW-100 WSX-PDT-SA-XX OSSMD-MDW	MANUAL ON / AUTO OFF WITH PUSH-BUTTON OVERRIDE							

LIGHTING CONTROL RELAY SCHEDULE - MAKER HUB										
Relay Number	Panel	Circuit Number	Switch Type	Controlled By	Zone Designation	Note	Voltage	Area Controlled		
1	LH	35	RELAY	ASTRONOMICAL TIME-CLOCK WITH KEYPAD OVERRIDE	Ha			MAKER HUB EXTERIOR LIGHTING		



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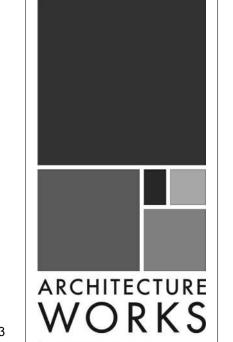


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LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL	TYPE	COMMENTS				
F	ARCHITECTURAL GRADE CEILING FAN	BY ARCHITECT	SELECTIONS BY ARCHITECT	LED	CEILING FANS TO BE SELECTED BY THE ARCHITECT. LINE-ITEM SHOWN FOR REFERENCE ONLY.				
LF1	4" LED TUNABLE WHITE DOWNLIGHT	ALPHABET PORTFOLIO BOLD	NU4-RD-TW-13LM-2765-95-HE45-UNV-MOUNTING-COLOR LD4B15DE010W2N2765 EU4B1020W2N902765 4LBXXX CRF4-NIC-T-U-S-0-TW-F-FINISH-FINISH-11-D	LED	MOUNTING SELECTION TO BE DETERMINED BY CONTRACTOR. COLOR SELECTIONS & LIGHT COLOR TUNING TO BE SELECTED BY ARCHITECT.				
LF2	DECORATIVE LED WALL CYLINDER FIXTURE	BEGA LIGMAN FC LIGHTING	24034 K35 UMV-30002-20W-N-W35 FCC400-11-WM-UNV-935-10L-FINISH-50-LD	LED	MOUNT FIXTURE 10'-0" ABOVE FINISHED GRADE, FINISH TO BE SELECTED BY ARCHITECT, VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN				
LF3	RECESSED "MOVE IT" DECROATIVE LED TRACK LIGHTING	XAL LITELINE	MOVE1.2-RTL-BL-48V-010V-ST-XXFT KL-I-T-XX-C-X-R-BK	LED	DECORATIVE RECESSED TRACK LIGHTING SYSTEM. COORDINATE WITH ARCHITECT ON LENGTH & SHAPE PRIOR TO ORDERING.				
LF4	SURFACE-MOUNT "MOVE IT" DECORATIVE DIRECT/INDIRECT LED TRACK LIGHTING	XAL LITELINE	MOVE1.1-PDT-BL-BW-35K-C90-48V-010V-0500LF-ST-XXFT KL-I-F/S-XX-C-XX-X-BK/KL-SPOT-BK	LED	DECORATIVE SURFACE/PENDANT TRACK LIGHTING SYSTEM. COORDINATE WITH ARCHITECT ON LENGTH & SHAPE PRIOR TO ORDERING.				
LF5	RECESSED 2" X 4' LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-R-D-4'-S-935-F-96LG-120-SC-MOUNTING S122DR-S350D935-XX4F0-1-UDD-F-W SL2L-LOP-4FT-FLP-FL-90CRI-35K-1000LMF-MIN1-120	LED	MOUNTING SELECTION TO BE DETERMINED BY CONTRACTOR.				
LF6	5 5/8" LED RECESSED DOWNLIGHT	BEGA LIGMAN LIGHTHEADED	24817 35K UMO-80012-21W-M-W35 2-116-T-04-BRO36-35-8014-WET / D4B-FVR-R-T-3-P-VOLT	LED	COLOR SELECTION TO BE BY ARCHITECT.				
LF7	DECORATIVE WALL-MOUNTED LED VANITY FIXTURE	BEGA	50144-FINISH	LED	FINAL MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECT. FINISH SELECTION TO BE BY ARCHITECT.				
LF8	SURFACE/PENDANT-MOUNT 2" X 4' LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-SM-D-4'-S-935-F-96LG-120-SC-MOUNTING-FE-FINISH S122DM/DP-C350D935-XX-XX4F0-1-UDD-F S2LS-LLP-4FT-90CRI-1000LMF-MIN1-120-WHT	LED	COORDINATE SURFACE OR PENDENT MOUNT WITH ARCHITECT. FINISH SELECTION TO BE BY ARCHITECT.				
LF9	RECESS-MOUNT, EDGE-LIT, LED EXIT SIGN	DUAL-LITE SURE-LITES BEGHELLI	LECXRX-FINISH-E EUX7RXX OL2-SA-LR-1/2-C-CR-FINISH	LED	DIRECTIONAL CHEVRONS, WALL OR CEILING MOUNT, SINGLE OR DOUBLE FACE TO BE COORDINATED AT EACH LOCATION.				
LF10	ARCHITECTURAL WALL-MOUNT LED FIXTURE	BEGA LIGMAN SISTEMALUX	33341 35K UGN-30031-2X12W-W35 S.7252W/MOD35K-DF-UNV-FINISH	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCHITECT.				
LF11	8" DIA. LED PENDANT MOUNT CYLINDER	BEGA LIGMAN FC LIGHTING	24507 35K UJE-9511-39W-W-W35 FCC800-17-SPM/LENGTH-UNV-935-30L-FINISH-40-LD	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCHITECT.				
LF13	DECORATIVE LED SITE BOLLARD FIXTURE	LIGMAN FC LIGHTING BEGA	ULI-10021-29W-T4-W35-FINISH-120/277V FCBT690-UNV-42-4K-19L-FINISH 88977 K35 FINISH 79 802	LED	VERIFY FINISH WITH ARCHITECT.				
LF14	SECORATIVE LED SITE COLUMN LIGHT FIXTURE	LIGMAN WE-EF LUMINIS	UBE-20011-20W-W35-FINISH-120/277V 645-3421 LQ641-L1L15-R2-LQP669-120/277-FINISH	LED	VERIFY FINISH WITH ARCHITECT.				



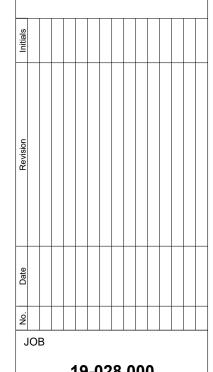
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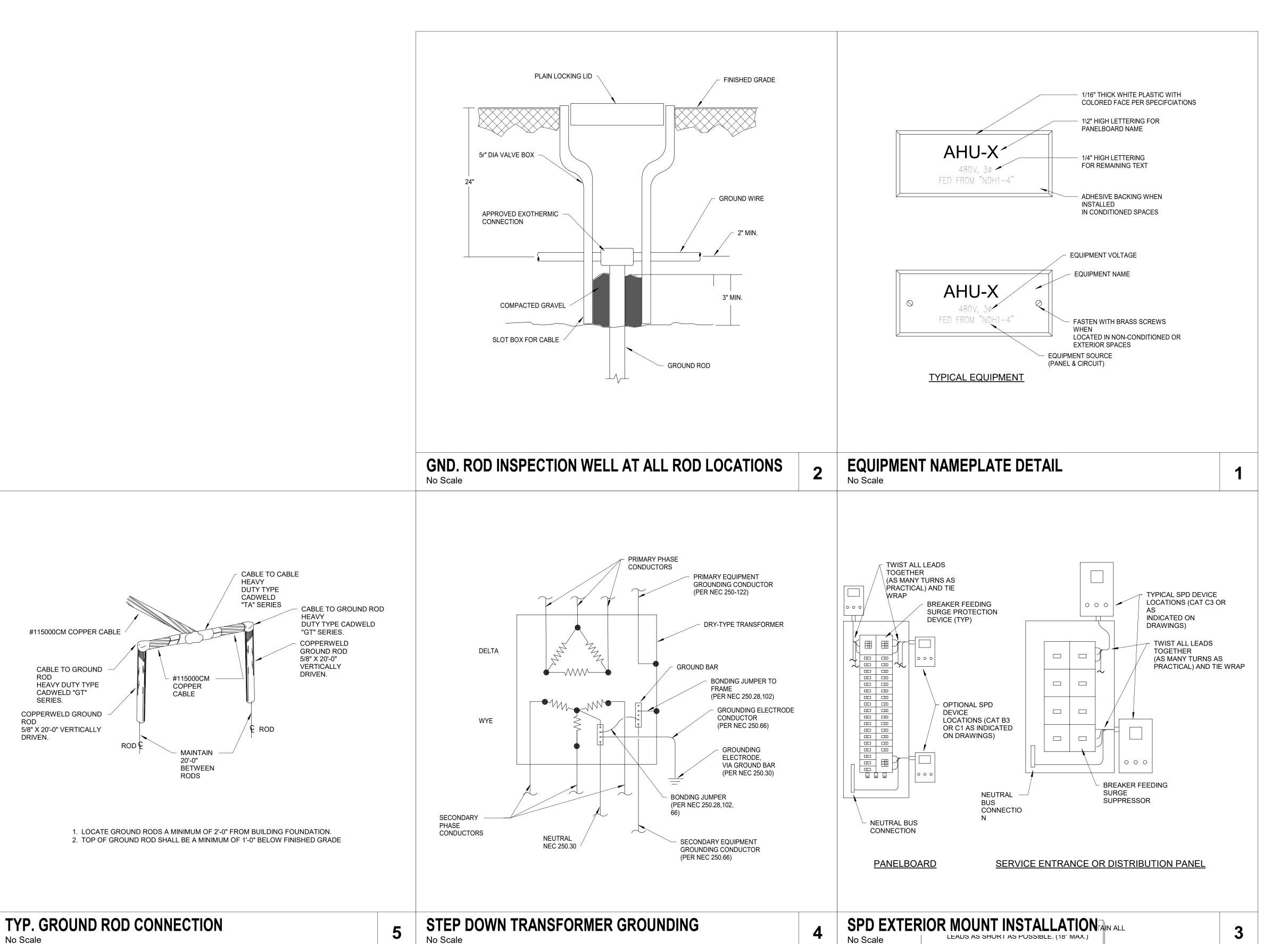
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MARCH 24, 2023

LIGHTING FIXTURE SCHEDULE



No Scale

No Scale

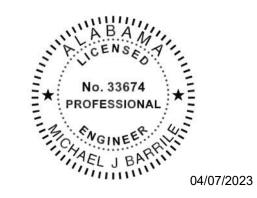


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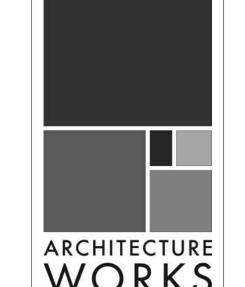
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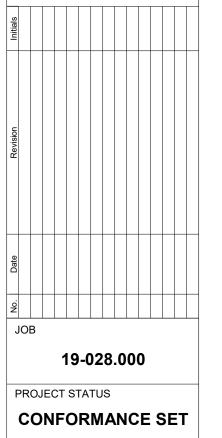
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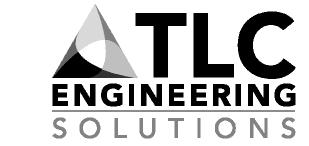
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MARCH 24, 2023

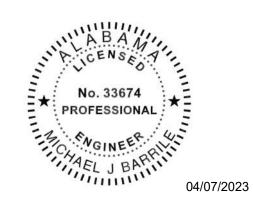
ELECTRICAL DETAILS



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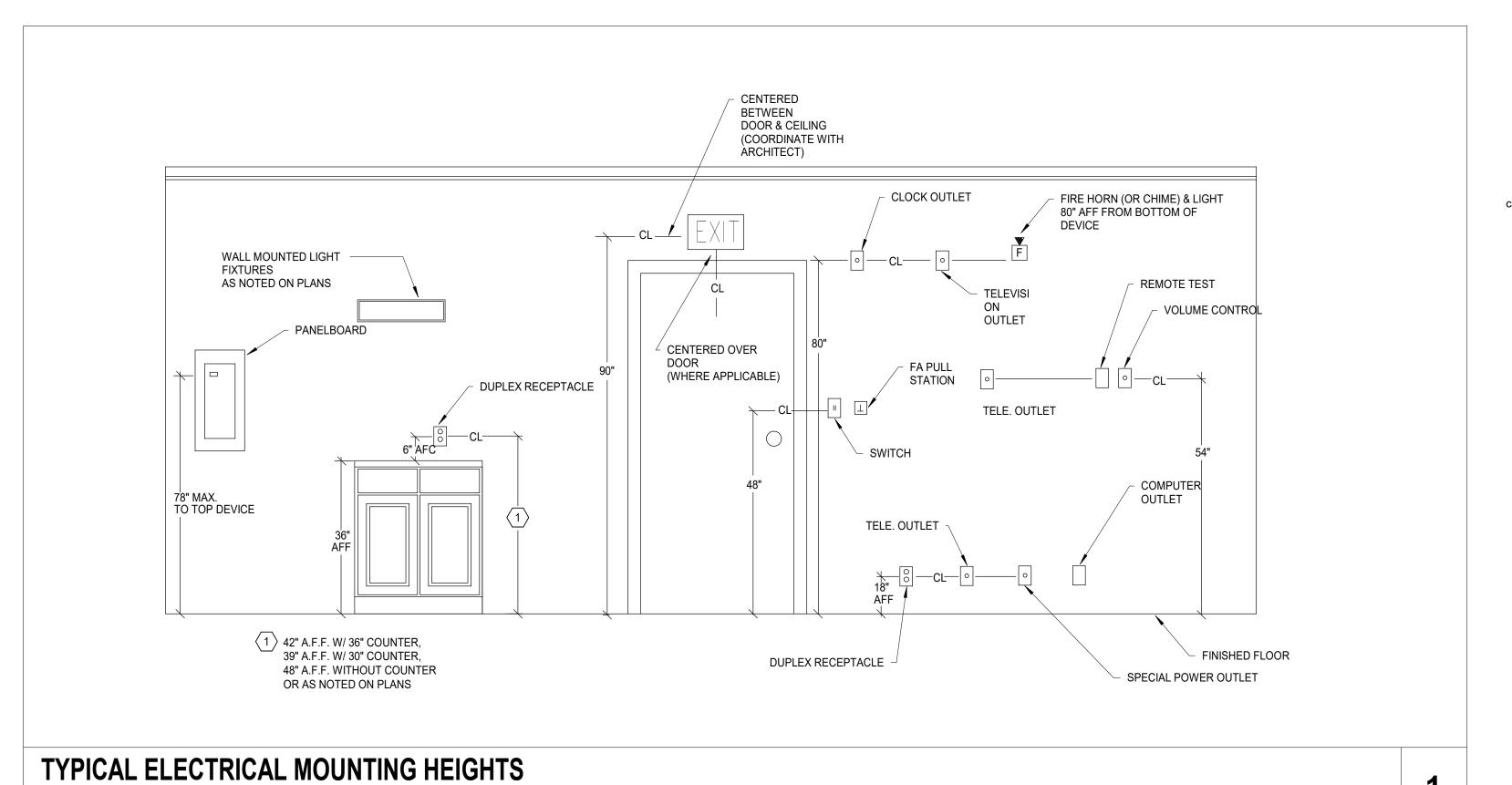
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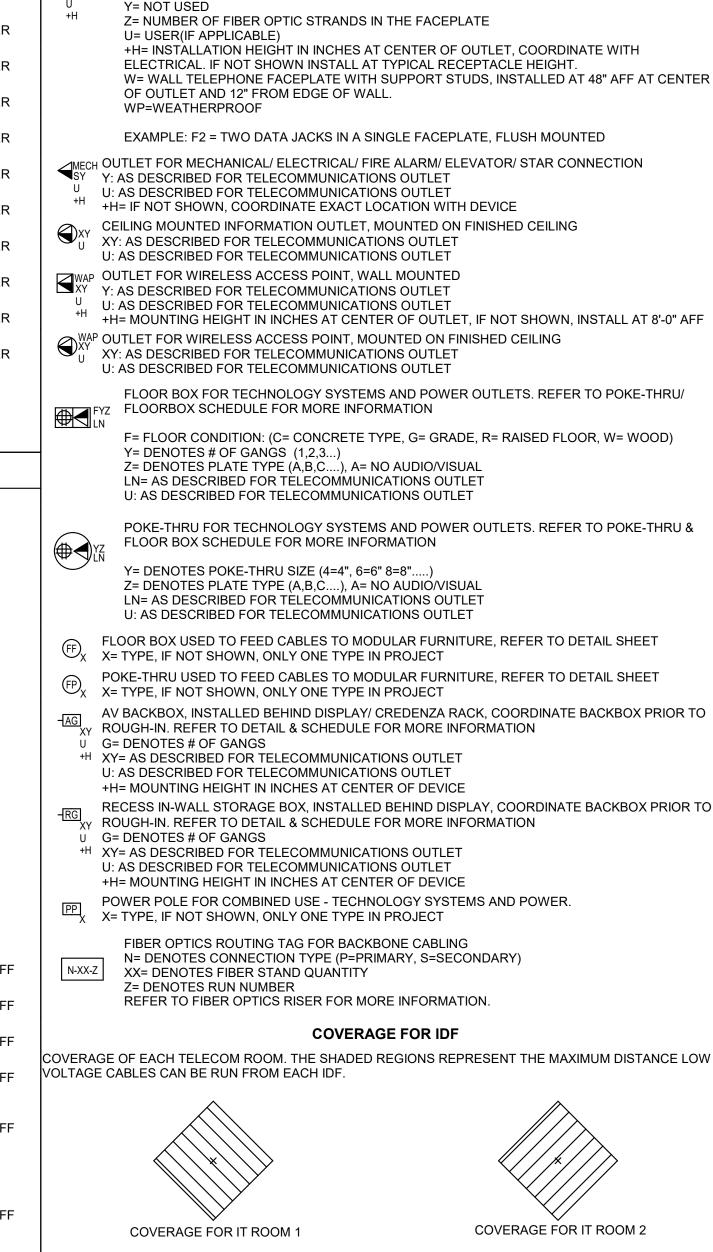
MARCH 24, 2023 **ELECTRICAL**

DETAILS





VIDEO SURVEILLANCE SYSTEMS PAN/TILT/ZOOM CCTV CAMERA, WALL MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER PAN/TILT/ZOOM CCTV CAMERA, CEILING MOUNTED $\mathbb{Z}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER FIXED CCTV CAMERA, WALL MOUNTED $\bigcup_{X,C} X$ = CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER FIXED CCTV CAMERA, CEILING MOUNTED $\mathcal{L}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° CCTV CAMERA, WALL MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° CCTV CAMERA, CEILING MOUNTED $\mathbb{P}_{\mathsf{X},\mathsf{C}}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED $\mathbb{Z}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED $\bigvee_{X,C} X = CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER$ 360° CCTV CAMERA, WALL MOUNTED $_{\rm X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 360° CCTV CAMERA, CEILING MOUNTED $\mathcal{Y}_{\mathsf{X},\mathsf{C}}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 360° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED \bigotimes $_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 360° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED $\bigotimes_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER CCTVFLAT PANEL DISPLAY WITH MOUNT XX XX= SCREEN SIZE +YY YY= HEIGHT TO CENTER OF SCREEN SECURITY SYSTEM WORKSTATION, DESK MOUNTED SECURITY X X= TYPE **ELECTRONIC SECURITY SYSTEM** CR CARD READER, WALL MOUNTED CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED KEYPAD, WALL MOUNTED WIRED IP LOCK, DOOR MOUNTED WIRELESS MORTISE LOCK, DOOR MOUNTED WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED INTRUSION ALARM KEYPAD ELECTRIC MORTISE LOCK OR ELECTRIC TRIM DELAYED EGRESS LATCH LOCK DELAYED EGRESS MAG LOCK ELECTRIC CYLINDRICAL LOCK ELECTRIC LATCH RETRACTION LOCK (M) ELECTROMAGNETIC LOCK (D) ELECTRONIC DETENTION LOCK



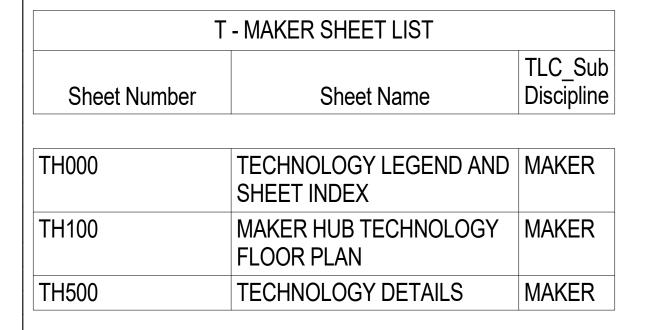
VOICE AND DATA SYSTEM

X= MOUNTING: (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER,

TELECOMMUNICATION OUTLET

P= POLE, L= FLÒOR, R= RACEWAY)

N= NUMBER OF DATA CABLES IN THE FACEPLATE

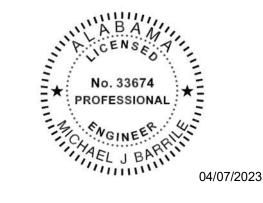




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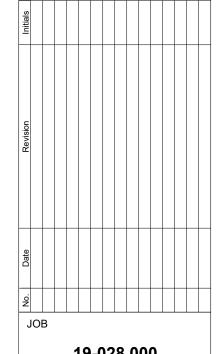
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TECHNOLOGY **LEGEND AND SHEET INDEX**

TECHNOLOGY KEYED NOTES

 PROVIDE WALL MOUNTED EQUIPMENT RACK MOUNTED TO 3/4" PLYWOOD BACKBOARD. DESIGN SELECTION: DWR-12-26PD



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04/07/2023

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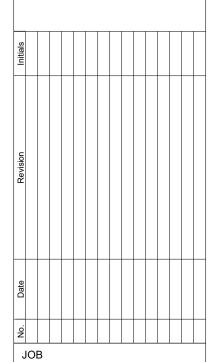
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FOR ECOTOURISM & SUSTAINABILITY
MAKING HUB PACKAGE
GULF SHORES, ALABAMA GULF



19-028.000

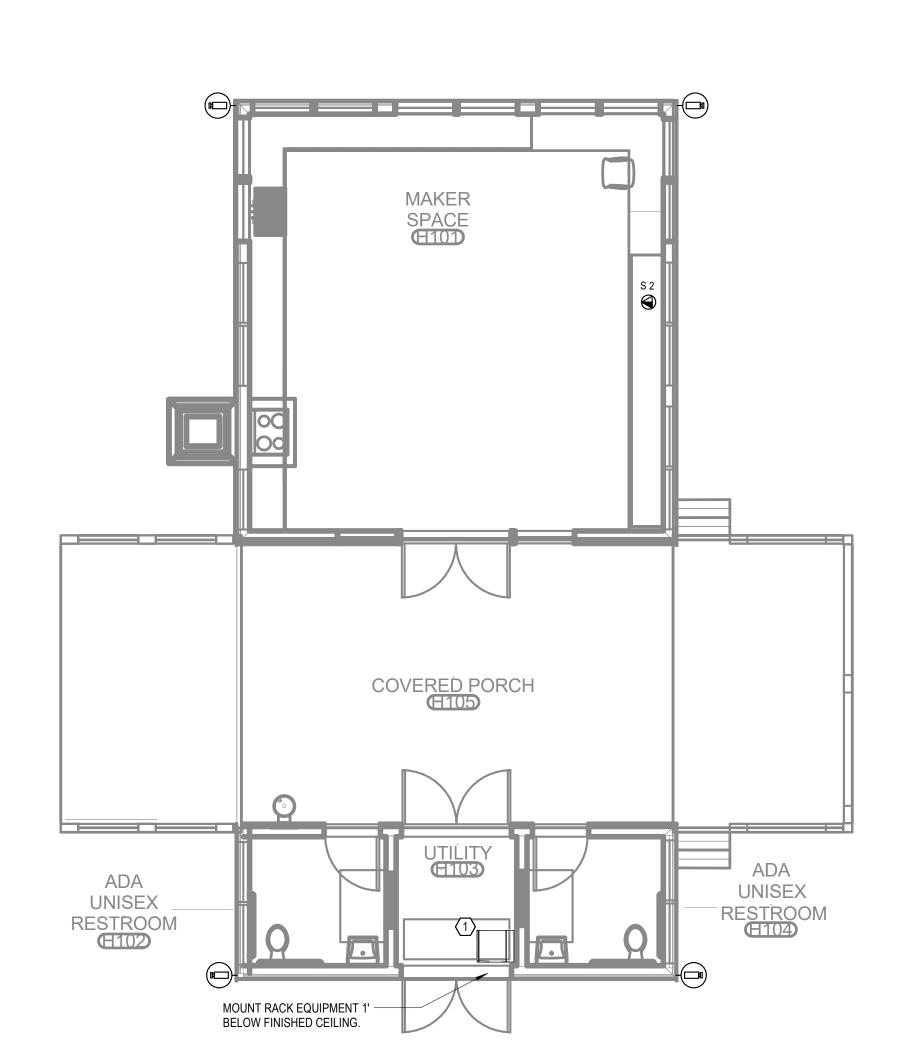
PROJECT STATUS

CONFORMANCE SET

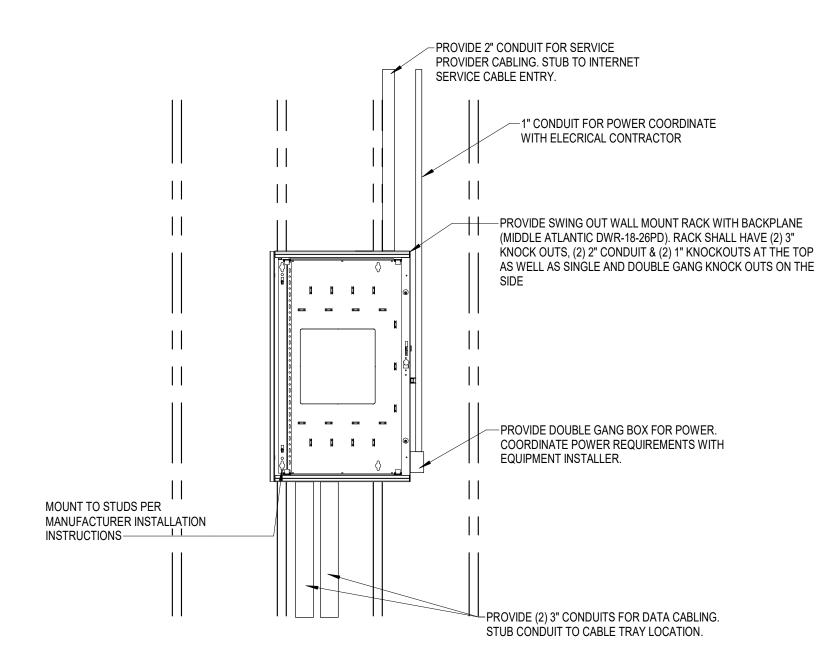
MAKER HUB TECHNOLOGY FLOOR PLAN

MARCH 24, 2023

TH100



LEVEL 1 - MAKER HUB -1 TECHNOLOGY 3/16" = 1'-0"



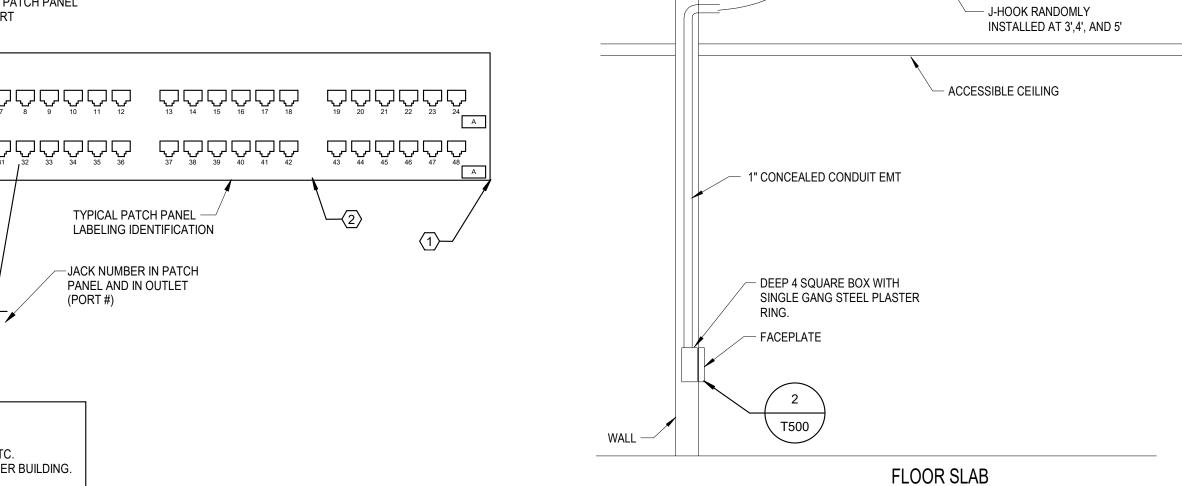
WALL MOUNTED RACK DETAIL -

4 MAKER
3/4" = 1'-0"

—CAT 6 PATCH PANEL 48 PORT 43 44 45 46 47 48 25 26 27 28 29 30 TYPICAL PATCH PANEL -LABELING IDENTIFICATION JACK NUMBER IN PATCH PANEL AND IN OUTLET (PORT#)

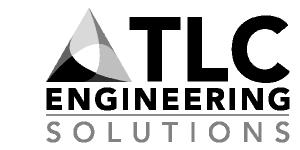
NOTES: PATCH PANELS WILL BE # A,B,C, ETC.
PATCH PANEL PORT COUNT TBD PER BUILDING.

2 PATCH PANEL - MAKER
1" = 1'-0"



TYPICAL FLUSH MOUNT OUTLET (CONCEALED 6 CONDUIT) - MAKER

MAX

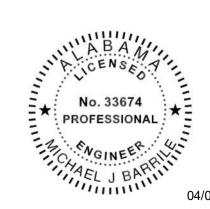


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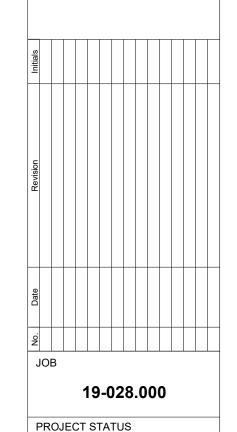
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FOR

PROJECT STATUS **CONFORMANCE SET MARCH 24, 2023 TECHNOLOGY DETAILS**

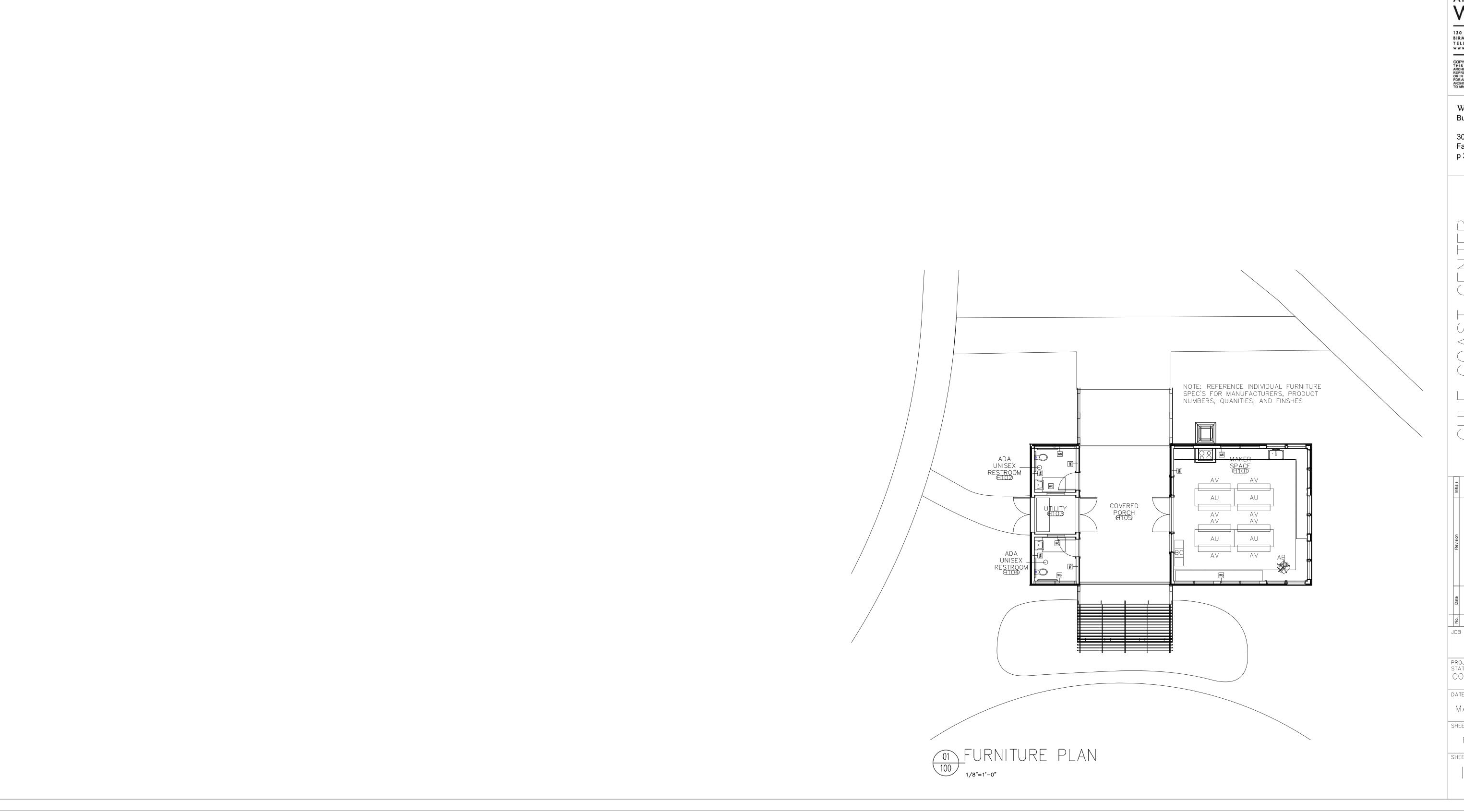
CAT6 UTP TO TR~ COIL CABLE IN CEILING

> NOTE:
> WIRELESS ACCESS POINT AND
> ANTENNA NOT IN CONTRACT. DETAIL NOTE: 1 COIL 20' LOOP IN CEILING.

WIRELESS ACCESS POINT 5 (COILED IN CEILING) - MAKER

ACCESSIBLE CEILING-

TH500





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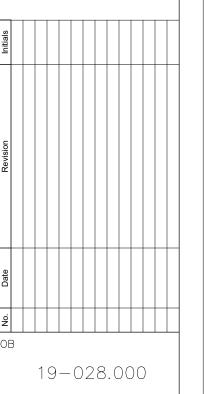
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MAKER HUB GULF SHORES



PROJECT STATUS CONFORMANCE SET

MARCH 24, 2023 SHEET NAME

furniture plan

IDH100