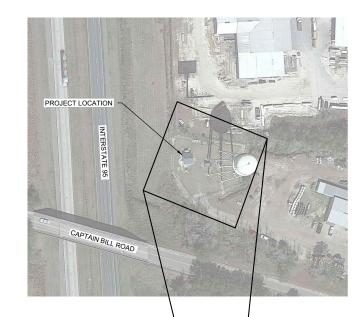
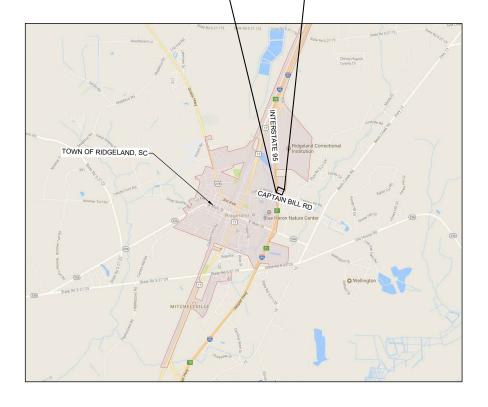
### CONSTRUCTION DRAWINGS FOR:

# TOWN OF RIDGELAND WELL SITE #3 IMPROVEMENTS







#### MAYOR

JOSEPH N. MALPHRUS, JR

MAYOR PRO TEMPORE TOMMY RHODES

COUNCIL MEMBERS JOSEPHINE BOYLES BILL FISHBURNE LIBBY MALPHRUS

TOWN ADMINISTRATOR DENNIS E. AVERKIN

PROJECT #: 17-1007:041



D.





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#### DATE: FEBRUARY 2024

ISSUE: 100% SUBMITTAL

#### UTILITY SEPARATION NOTES

- UTILITY SEPARATION FROM WATER MAINS SHALL BE IN ACCORDANCE WITH THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS. ALL DISTANCES NOTED ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE
- HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE UNDER THE TOWN OF 2 RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS SHALL BE A MINIMUM OF TEN FEET WHERE POSSIBLE. THE MINIMUM OF THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND SEWER PIPE SHALL BE REDUCED WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" INCHES ABOVE THE TOP OF THE SEWER AS APPROVED BY THE ENGINEER
- VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE SHALL BE 18 INCHES. 3 PREFERENCE IS FOR THE WATER MAIN TO BE ABOVE THE OTHER PIPELINE.
- FOR UTILITY CROSSINGS WITH WATER MAINS, ONE FULL LENGTH (20 FEET) OF WATER MAIN QUALITY PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. WATER PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR ALL CROSSINGS OF SEWER LINES AND DRAINAGE LINES, REGARDLESS OF CLEARANCE; FOR ALL CROSSINGS OF CREEKS, RIVERS, OR OTHER WATER BODIES; AND FOR WATER MAINS INSTALLED IN CASING. THE CONTRACTOR SHALL VERIFY, RECORD, AND REPORT THE VERTICAL SEPARATION FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT THE CROSSING.
- NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE, A STORM SEWER MANHOLE, OR A STORM SEWER INLET STRUCTURE

#### **GENERAL NOTES**

- REFERENCE INDIVIDUAL EXISTING CONDITIONS DRAWINGS FOR ELEVATION 1. AND COORDINATE SYSTEM INFORMATION FOR EACH SITE
- IN ACCORDANCE WITH GENERAL CONDITIONS, IT SHALL BE THE SOLE 2. RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW THE GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL 3. SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
- STATIONING SHOWN ON DRAWINGS REFERS TO CENTERLINE OF ROAD OR 4 RIGHT-OF-WAY LINE.
- 5. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF INLETS OR MANHOLES OR ALONG FORCEMAIN OR WATER MAINS
- THE CONTRACTOR SHALL PROVIDE NO LESS THAN A 6 INCH CLEARANCE 6. BETWEEN ALL UTILITIES, OTHER THAN WATER MAINS UNLESS OTHERWISE DIRECTED. NO SPECIAL PAYMENT ALLOWED.
- MINIMUM PIPE COVER SHALL BE 36 INCHES FOR PIPES LESS THAN 12" IN DIAMETER; 48 INCHES FOR PIPES 14" OR LARGER IN DIAMETER; AND 36 INCHES BELOW ANY SCOOT ROAD ELEVATION.
- CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE 8 STATE OF SOUTH CAROLINA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION.
- EXISTING UTILITIES HAVE BEEN SHOWN FROM THE BEST AVAILABLE 9. INFORMATION. CONTRACTOR SHALL NOTIFY THE PROPER UTILITY REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION NEAR UTILITY. CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL SUCH UTILITIES IN THE PATH OF CONSTRUCTION. THE LOCATION SHALL BE MADE WELL IN ADVANCE OF CONSTRUCTION SO THAT CONFLICTS IN CONSTRUCTION MAY BE RESOLVED.
- THE DEPARTMENT OF TRANSPORTATION IS TO BE NOTIFIED 48 HOURS IN 10 ADVANCE AND RAILROAD COMPANY 7 DAYS IN ADVANCE OF CONSTRUCTION WITHIN THEIR RESPECTIVE RIGHT OF WAY.
- UTILITY CONTACTS 11. SPECTRUM - (833-267-6094) CENTURYLINK - (866-642-0444) DOMINION ENERGY SOUTH CAROLINA - CUSTOMER SERVICE MAIN LINE (1-800-251-7234)PALMETTO ELECTRIC COOPERATIVE - RIDGELAND OFFICE (843-726-5551) TOWN OF RIDGELAND WATER & SEWER DEPARTMENT - TY SHAFFER (843-226-0312)
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON 12. LIMITED INVESTIGATION TECHNOLOGIES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
- CONTACT SUNSHINE STATE ONE-CALL OF SOUTH CAROLINA, INC. AS 13. REQUIRED BY SC CODE § 58-36-120 (2018).
- 14 CONTRACTOR TO LOCATE, PROTECT AND SUPPORT ALL WATER, SEWER, GAS TELECOMMUNICATIONS AND ELECTRIC UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- IF THE CONTRACTOR ENCOUNTERS GROUNDWATER. THE CONTRACTOR 15 SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS LISTED IN THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REGULATION 61-113. GROUNDWATER USE AND REPORTING: AND REGULATION 61-9. WATER POLLUTION CONTROL PERMITS, BEFORE ANY DEWATERING CAN BEGIN, CONTRACTOR SHALL SECURE THE SCDHEC GENERAL PERMIT FOR THE DISCHARGE OF GROUND WATER.

16 SPECIFICATIONS AND DETAILS.

17.

- DETOUR SIGNS AS NECESSARY.
- 18
- 19 ANY SOLVENT NOTED
- 20 JOINT.
- 21 MARKER PAIR
- 22.
- 23
- 24 COUNTY ZONING ORDINANCE § 13:5 (2).
- 25. CONSTRUCTION
- 26

27

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS DO NOT STAND BY THEMSELVES. ALSO TO BE INCLUDED ARE THE

CONTRACTOR TO FURNISH DETOUR AND CONSTRUCTION SIGNING AND LIGHTING AS REQUIRED IN SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT TO THE MANUAL ON TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND OTHER SPECIAL ADVANCED

ALL POTABLE WATER PIPE SHALL BE NSFPW RATED.

IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND

PIPE JOINT DEFLECTION, WHERE ALLOWED BY EXCEPTION, SHALL MATCH THE MANUFACTURER'S RECOMMENDATION FOR THE SIZE AND TYPE OF

ALL PIPELINES, WATERMAINS, FORMAIN, AND SERVICE LATERALS SHALL HAVE A 12 GAUGE SOLID COPPER SINGLE STRAND TRACER WIRE TAPED ALONG THE TOP OF THE PIPE. THE TRACER WIRE SHALL BE BROUGHT TO SURFACE AT EACH LOCATOR POST ON FORCE MAINS AND ACCESSIBLE FROM THE SURFACE AT ALL VALVE BOXED AND LOCATOR POSTS. AT LOCATIONS TRACER WIRE SURFACES BETWEEN VALVES, REGULAR VALVE BOX WITH PLAIN LID AND COLLAR SHALL BE INSTALLED BETWEEN A PIPELINE

CONTRACTOR SHALL CONTACT EACH PROPERTY OWNER ALONG THE ROUTE OF NEW PIPING AND CONSTRUCTION AND LOCATE ANY EXISTING IRRIGATION/SPRINKLER SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF ANY DAMAGED IRRIGATION/SPRINKLER SYSTEMS ON PRIVATE PROPERTY OR CITY R.O.W'S DUE TO WORK BEING PERFORMED BY CONTRACTOR AND/OR SUB-CONTRACTORS

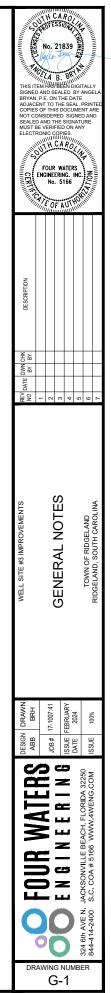
THE CONTRACTOR SHALL SUBMIT A SHORING PLAN FOR EXCAVATIONS ADJACENT TO BUILDINGS, ADJACENT TO RIGHT-OF-WAY, OR ANY OTHER EXCAVATIONS DEEPER THAN 7 FEET. THE SHORING PLAN SHALL INCLUDE SHORING SYSTEM DESIGN CALCULATIONS AND DETAILS SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER.

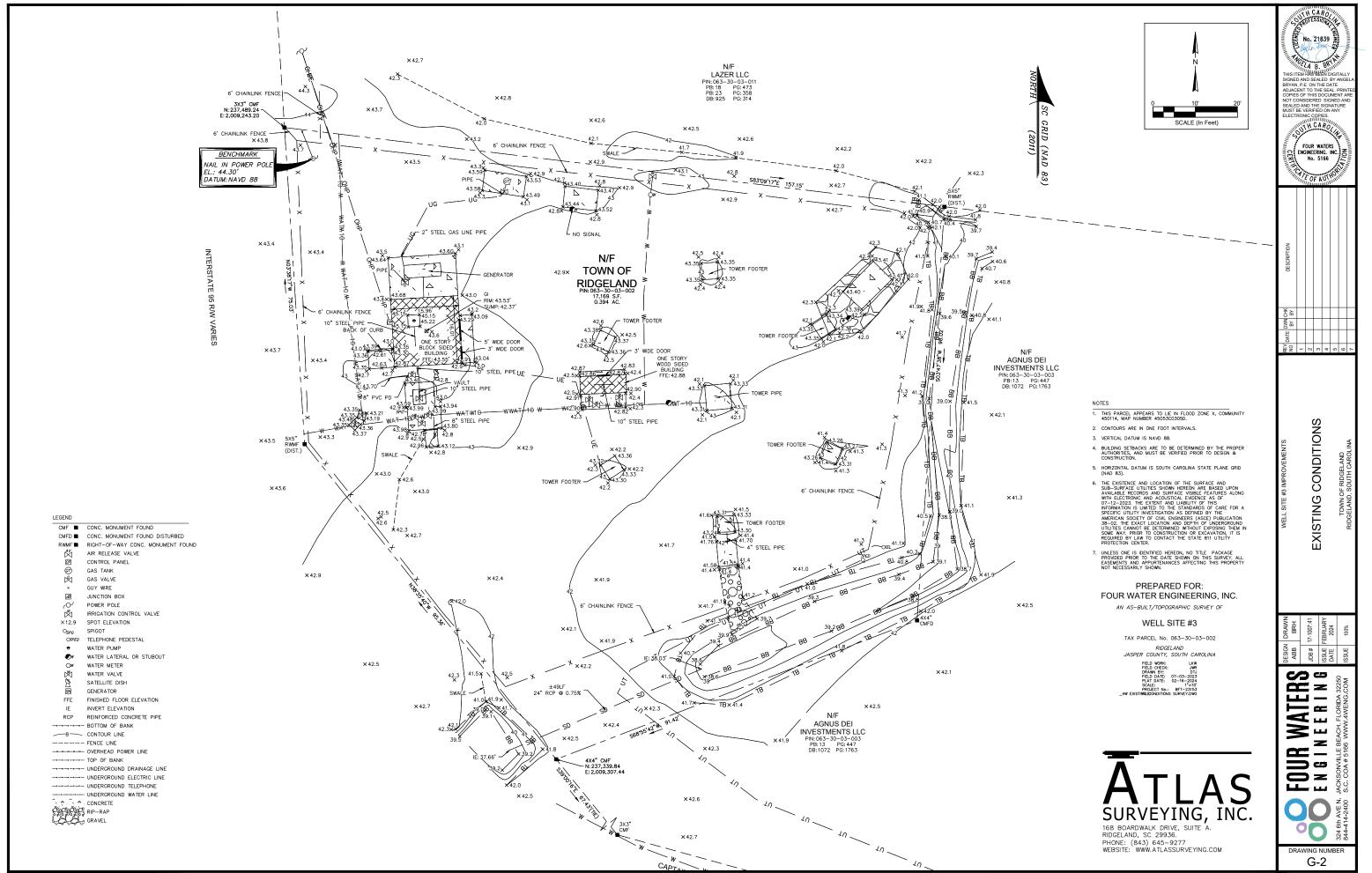
ALL PROTECTED TREES SHALL BE PROTECTED FROM INJURY DURING ANY LAND CLEARING OR CONSTRUCTION. PRIOR TO ANY LAND CLEARING OR CONSTRUCTION OPERATIONS, TEMPORARY BARRIERS SHALL BE INSTALLED AT THE DRIP LINE OF ALL PROTECTED TREES IN ACCORDANCE WITH JASPER

TREE BARRICADE APPROVAL: OBTAIN TOWN APPROVAL OF TREE BARRICADES BEFORE BEGINNING CLEARING OPERATIONS OR ANY

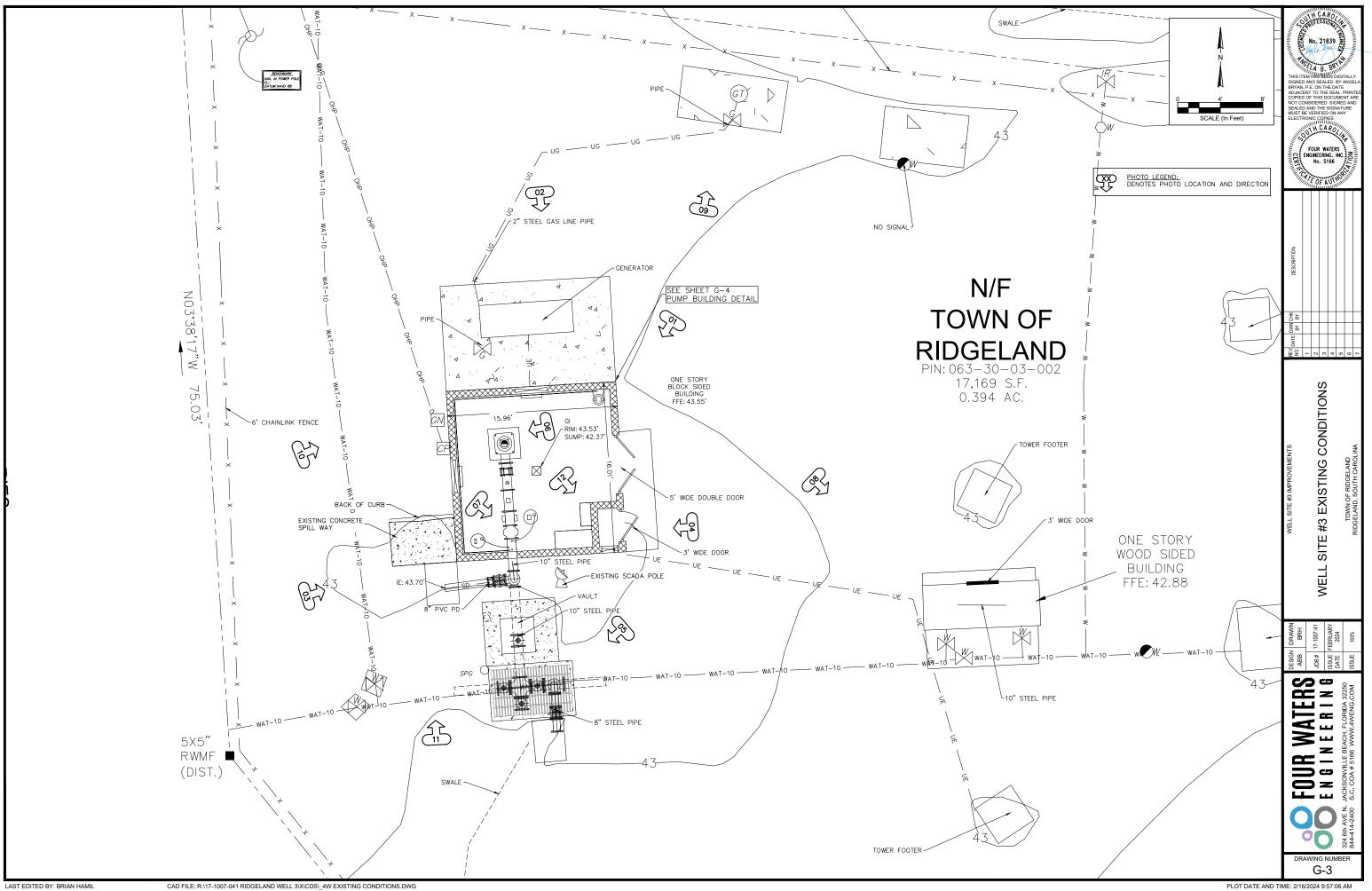
SCDOT RIGHTS-OF-WAY PERMITS ARE REQUIRED FOR THIS PROJECT

CONSTRUCTION ACTIVITIES DISTURBING ANY LAND AREA WITHIN JASPER COUNTY SHALL REQUIRE NOTIFICATION TO SCHEEC PRIOR TO CONSTRUCTION, NOTIFICATION REQUIREMENTS AND/OR NPDES PERMIT REQUIREMENTS VARY BASED UPON LAND DISTURBANCE AREA AND PROXIMITY TO A COASTAL RECEIVING WATER BODY. CONTRACTOR SHALL SUBMIT AN NOI TO SCDHEC PRIOR TO CONSTRUCTION.





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BUILDING

PHOTO 2: LOOKING SOUTH TOWARD GENERATOR

PHOTO 1: LOOKING SOUTH TOWARD WELL BUILDING





PHOTO 4: LOOKING WEST TOWARD CHLORINE GAS ROOM

PHOTO 5: LOOKING WEST TOWARD DISTRIBUTION VALVE VAULT AND SPILLWAY



PHOTO 3: LOOKING EAST TOWARD WELL



PHOTO 6: LOOKING WEST TOWARD WELL PUMP







PHOTO 9: LOOKING NORTH TOWARD GAS TANK

PHOTO 7: LOOKING SOUTH TOWARD WELL DISCHARGE

PHOTO 8: LOOKING EAST TOWARD ALTITUDE VALVE BUILDING



PHOTO 10: LOOKING EAST TOWARD CONTROL PANEL



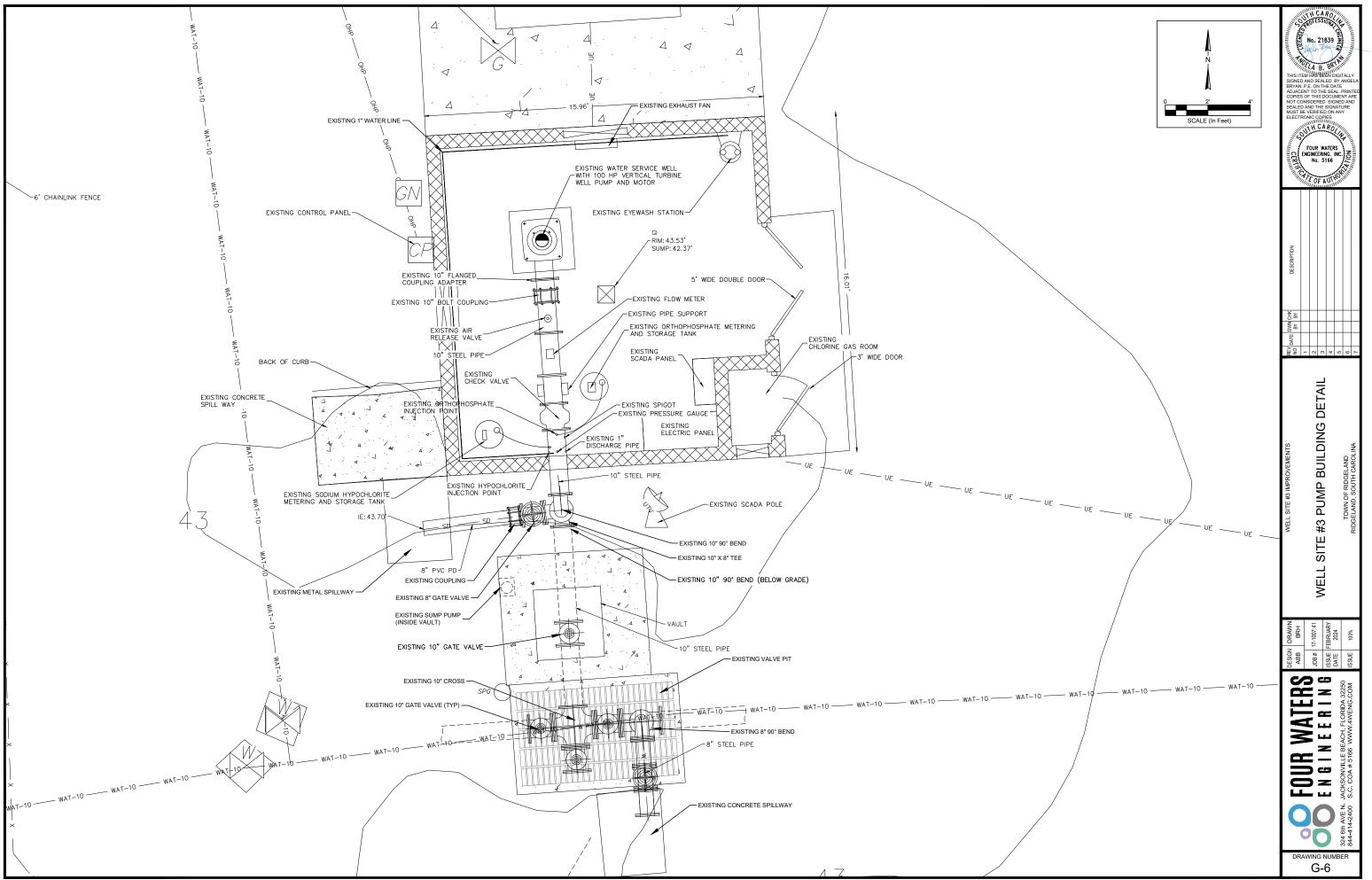
PHOTO 11: LOOKING NORTH TOWARD SPILLWAY CONCRETE AND DISCHARGE PIPE



ELECTRICAL PANEL

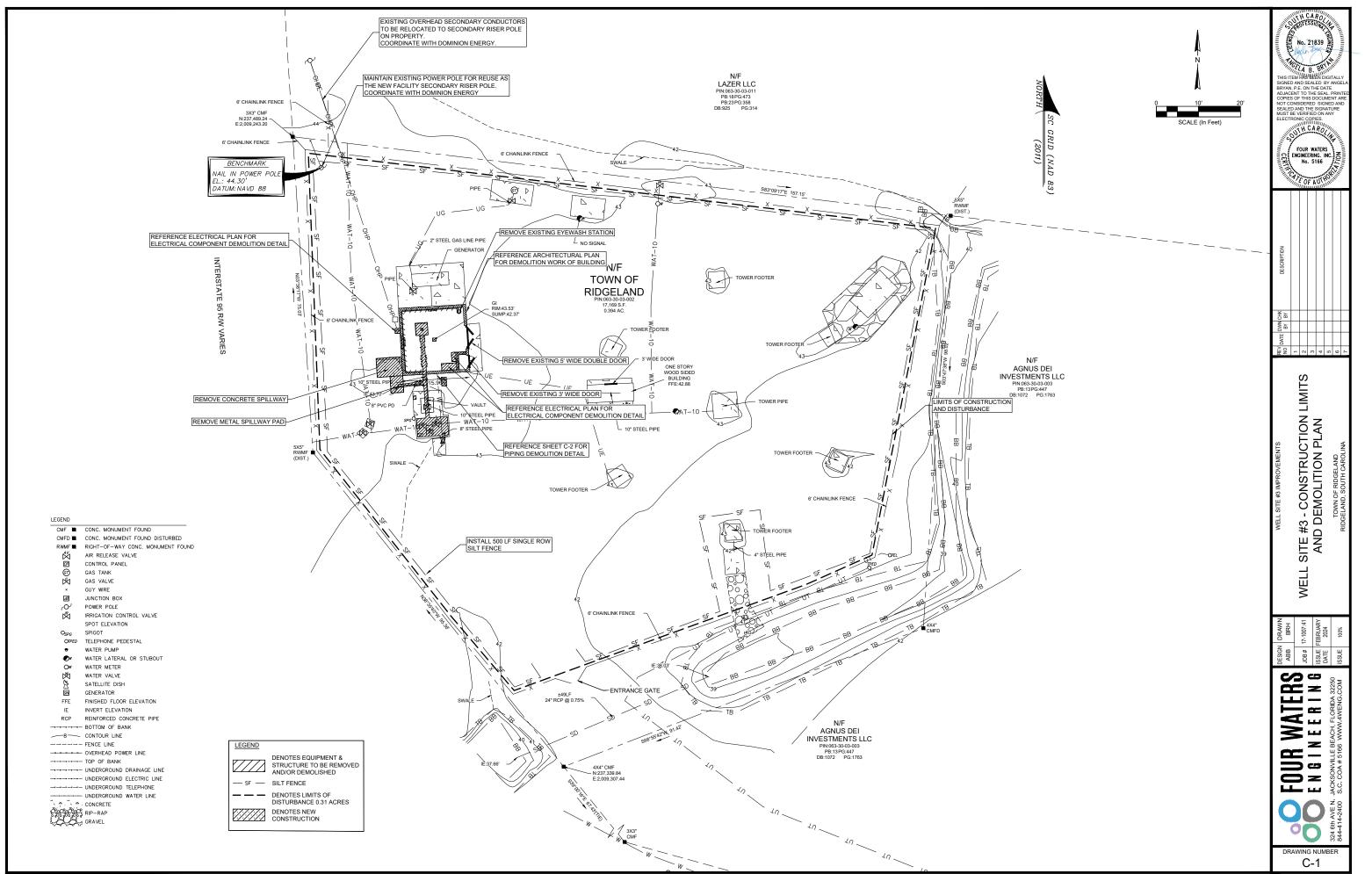
PHOTO 12: LOOKING SOUTHEAST TOWARD

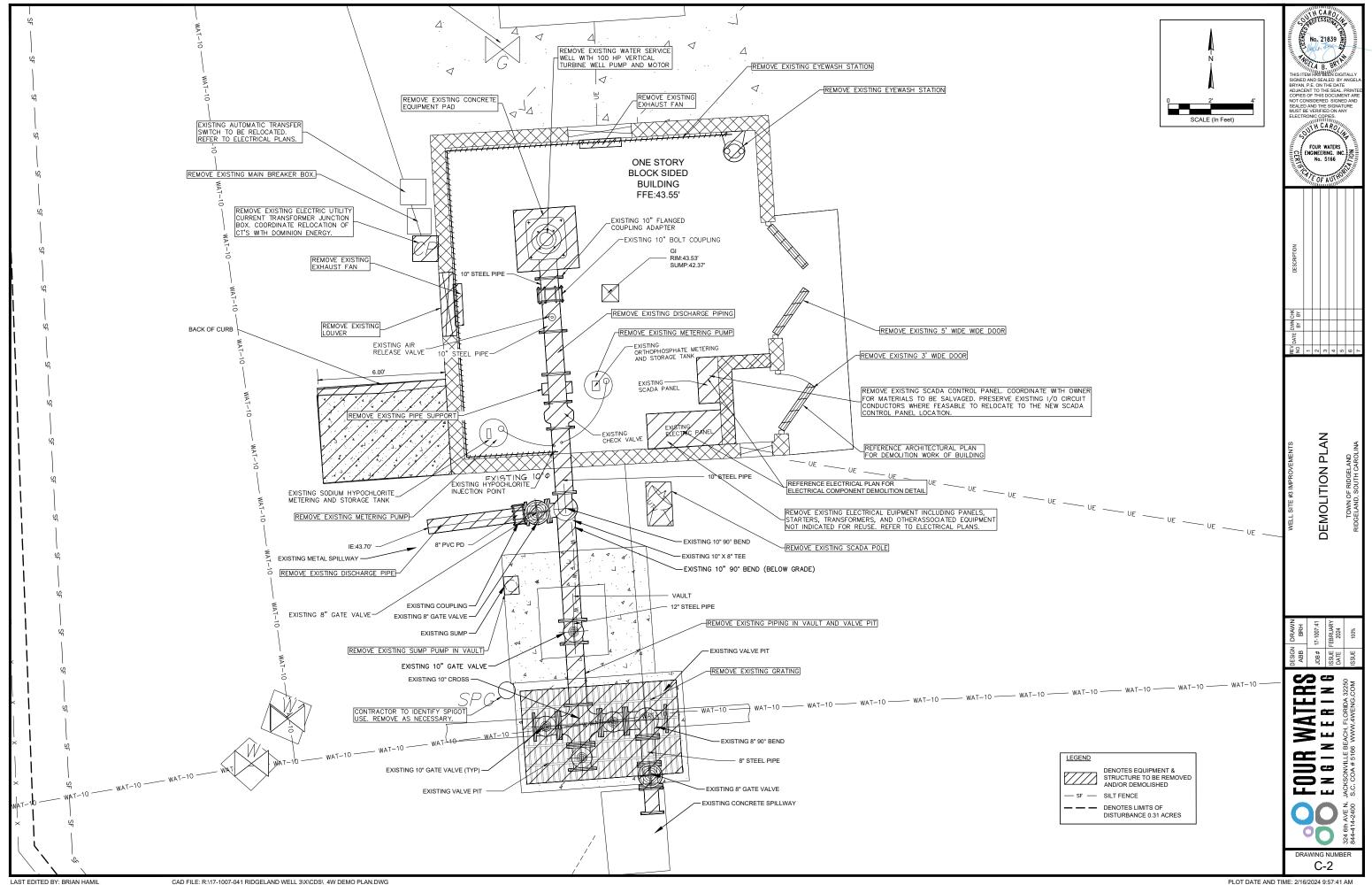


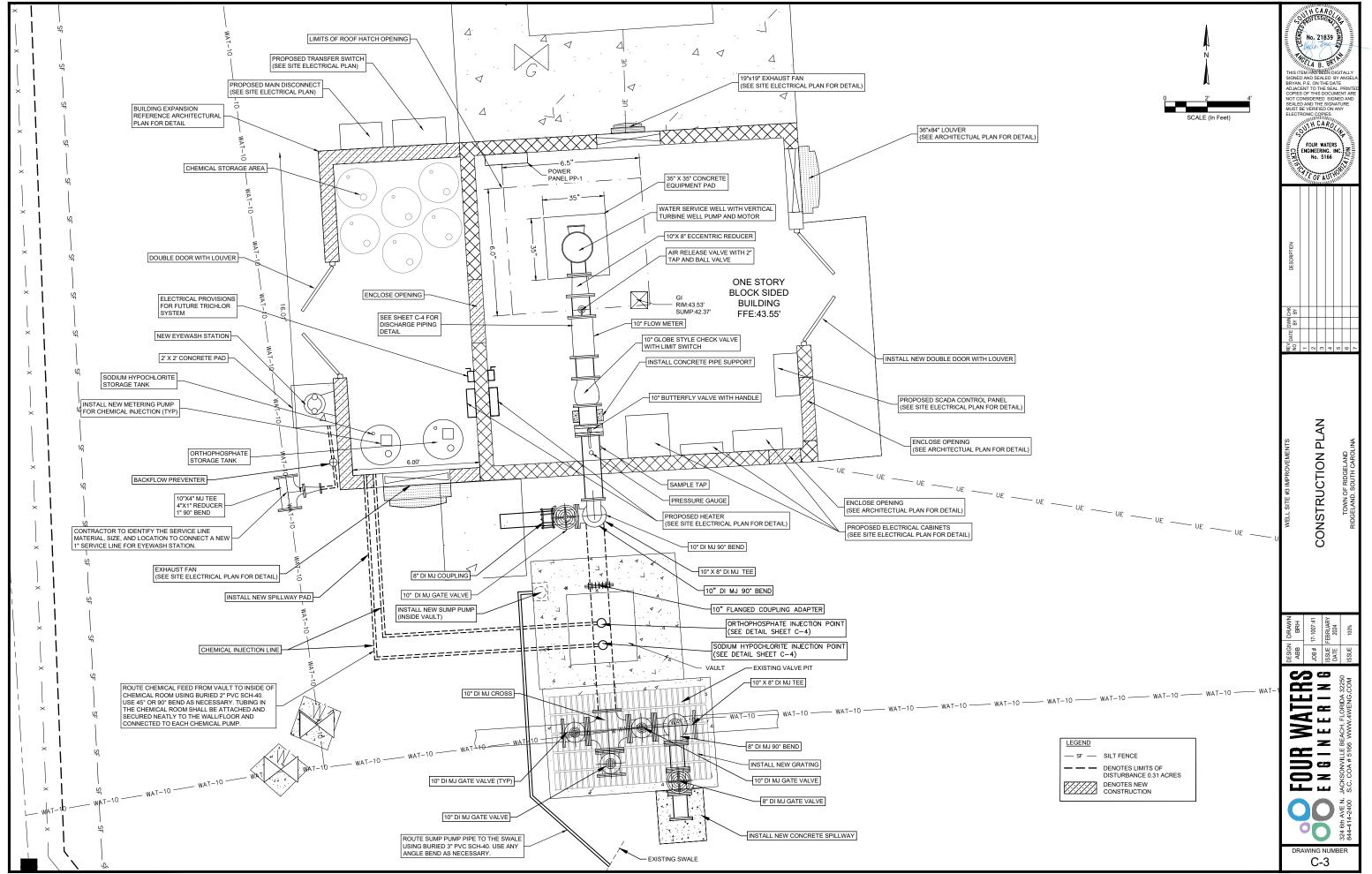


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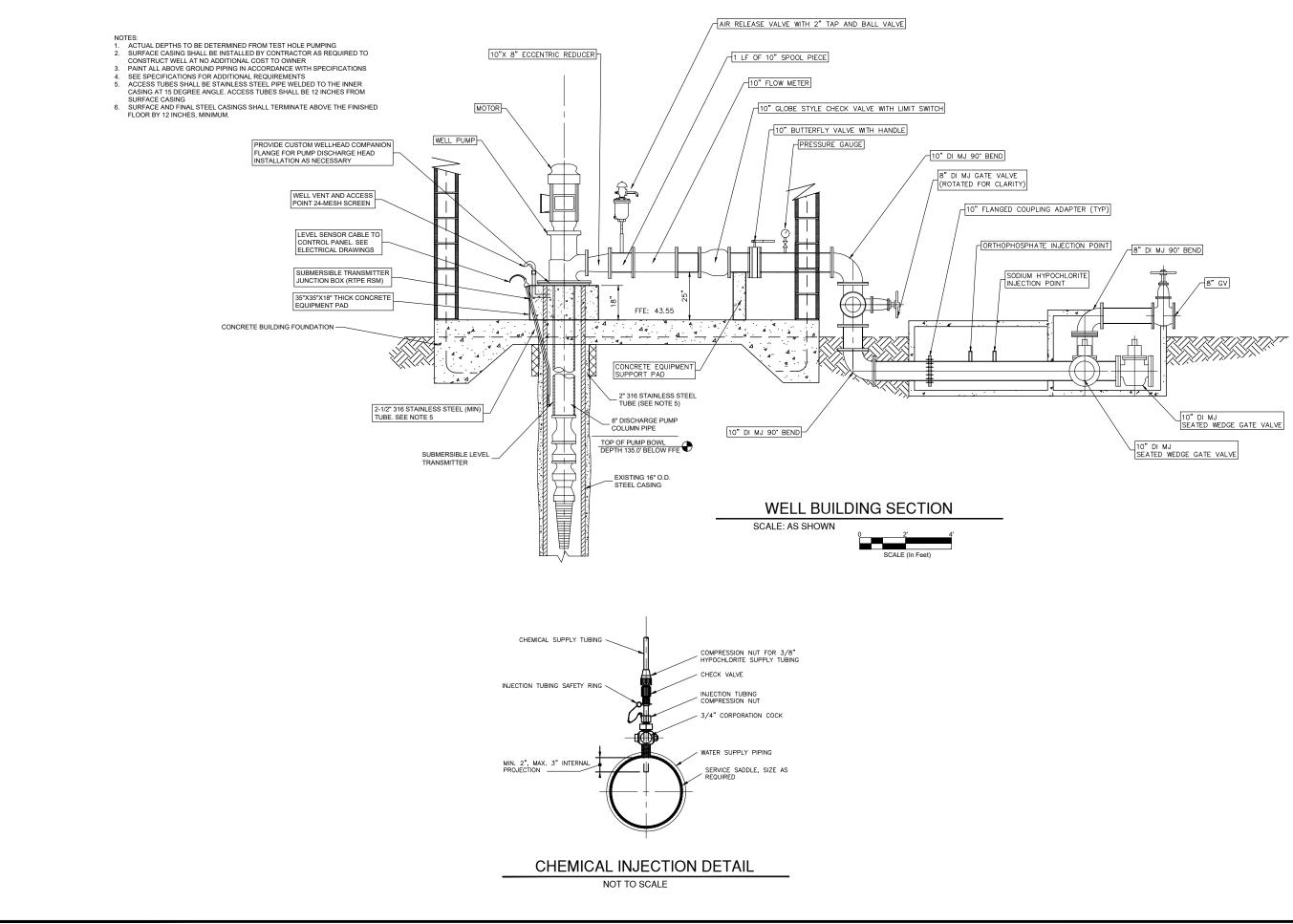






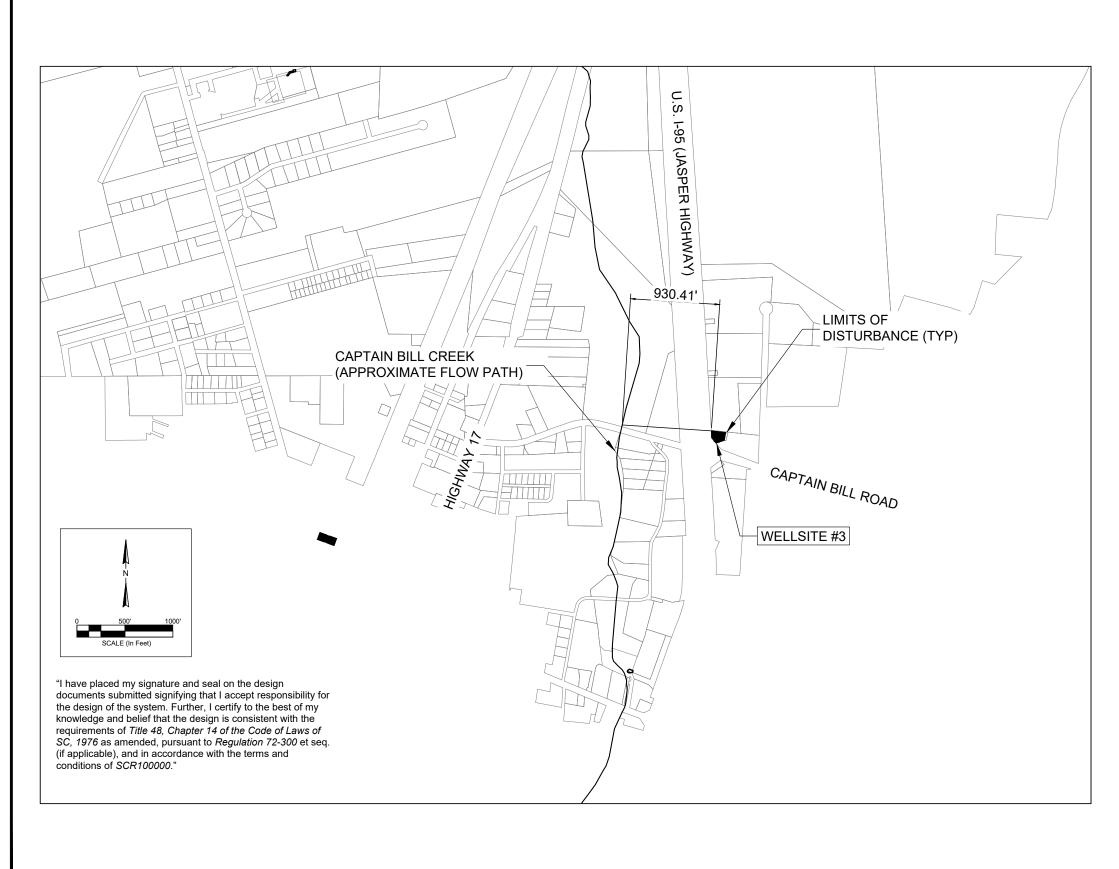
CAD FILE: R:\17-1007-041 RIDGELAND WELL 3\X\CDS\\_4W CONSTRUCTION PLAN.DWG

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#### PROJECT LIMIT AND LAND DISTURBANCE LIMITS SCALE 1" = 500'

SCDHEC SEDIMENT AND EROSION CONTROL STANDARD NOTES

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (B) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERNS MAY BE NEEDED UNIT. THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTES (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE MITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ATTIVITES WILL RECEIVED WITHIN A ID DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT FORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN NAPPROPRIATELY. OR INCORRECT, THE PERMITTE MUST ADDRESS THE INCESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTLITY CONSTRUCTION, ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING MINEDIATELY AFTER THE UTLITY INSTALLATION, FILL, OVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK MOTO ANY WATERS OF THE STATE.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTUBBED AREAS HAVE BEEN STABILIZED. ADDITIONAL, CONTROL DEVICES MAY BE REQUISED DURING CONSTRUCTION IN ORDER TO CONTROL REGISION AND/OR OFFSITE SEDMENTATION ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUDSICH FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR 100000.

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

ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANT BE MAINTANED BETWEEN THE INSTITUED RAFE AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUNGER AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

1. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H-1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EDUIVALENT OR BETTRE TREATMENT PRIOR TO DISCHARGE:

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

 WASTEWATER FROM WASHOUT OF CONCRETE. UNLESS MANAGED BY AN APPROPRIATE CONTROL: WASTEWATER TRAW WASHOULDER CURLETE, UNLESS MANAGED BLAW APPROPRIATE CONTINUE,
 WASTEWATER FROM WASHOULD AN CLEANOUT OF STUCCO, PAINT, FORM RELEASE OLS, CURRING COMPOUNDS AND
 OTHER CONSTRUCTION MATERIALS;
 FOLS, OLS, OR OTHER POLICITATIS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SCS WATER QUALITY STANDARDS, IMPLEMENTATIOM MUST BE COMPLETED BEFORE THE NEXT STORM EVENT INMENVER PRACTICABLE IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE .

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWIPP PRICE TO THE MILEMENTATION OF CONSTRUCTION ACTIVITIES FOR NON-LINEAR PROJECTS THAT APPROVED DIFERNMENT.

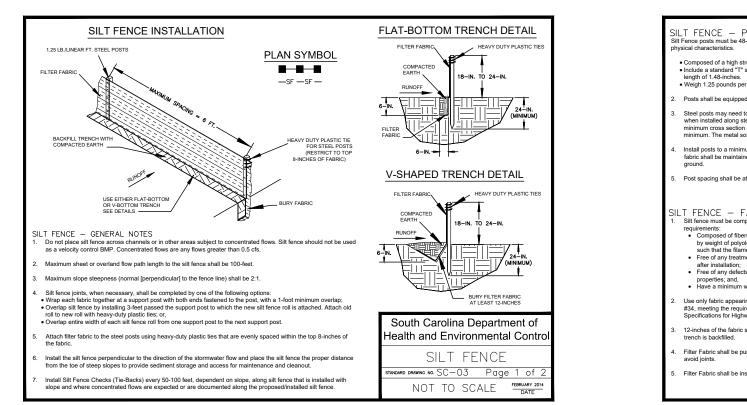
PLANNED SEQUENCE OF OPERATIONS:

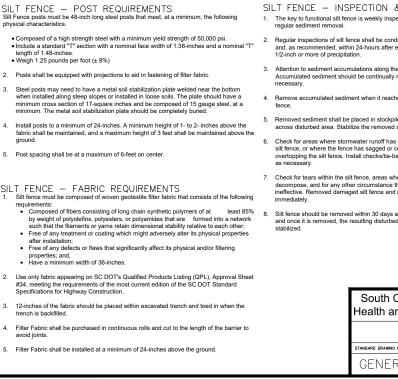
 CLEARING AND GRUBBING OF AREAS NECESSARY FOR INSTALLATION OF SILT FENCE AND INLET PROTECTION PER CONSTRUCTION PLANS.
 DEMOLISH EXISTING STRUCTURES PER CONSTRUCTION PLANS.
 WELLSTE IMPROVEMENTS PER CONSTRUCTION PLANS.
 INSTALLATION OF HYDROSEEDING AND/OR SOD FOR PERMANENT STABILIZATION OF DISTIPEER APEAS DISTURBED AREAS

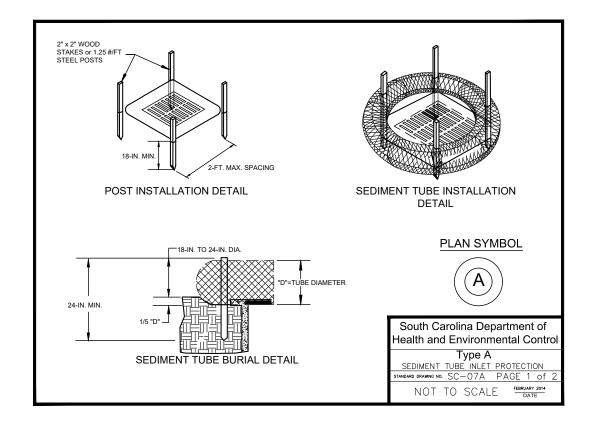
MAINTAIN GRASS SURFACE.

 REMOVE TEMPORARY SEDIMENT CONTROL FEATURES ONCE FINAL STABALIZATION IS OBTAINED









GE	NERAL NOTES	11	SPECTION & MAINTENAN
1.	Sediment tubes are elongated tubes of compacted geotextiles, curied excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch.filled sediment	1.	The key to functional inlet protection is week routine maintenance, and regular sediment i
	tubes are not permitted.	2.	Regular inspections of sediment tube inlet p conducted once every calendar week and, a
2.	The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet sabilizers or a seamless, high-density		within 24-hours after each rainfall even that 1/2-inch or more of precipitation.
	polyethylene non-degradable material.	3.	Attention to sediment accumulations in front tube is extremely important. Accumulated se
3.	Sediment tube diameters shall range from 18-inches to 24-inches. Sediment tunes with smaller diameters are		continually monitored and removed when ne
	prohibited when used as inlet protection.	4.	Remove accumulated sediment when it read of the sediment tube. When a sump is instal
4.	Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.		inlet protection, sediment shall be removed approximately 1/3 the depth of the sump.
5.	Sediment tubes should be staked using wooden oak stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at	5.	Removed sediment shall be placed in stockpi disturbed area. Stabilize the removed sedim
	a minimum of 48-inches in length placed on 2-foot centers.	6.	Large debris, trash, and leaves should be re front of tubes when found.
6.	Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's	7.	Inlet protection structures should be remove
			•

TYPE A - SEDIMENT TUBE INLET PROTECTION

mendations should always be consulted before

The ends of adjacent sediment tubes should be overlapped

8. Sediment tubes should not be stacked on top of one another

9 Each sediment tube should be installed in a trench with a

10. Install stakes at a diagonal facing incoming runoff.

epth equal to 1/5 the diameter of the sediment tub

the field joint.

6-inches to prevent flow and sediment from passing through

 Inlet protection structures should be removidisturbed areas are permanently stabilized construction material and sediment, and di property. Grade the disturbed area to the einlet structure crest. Stabilize all bare areas

South C Health ar
SEDIMEN Standard drawing M
NOT

PECTION & MAINTENANCE e is weekly inspections, routine maintenance, and
ce shall be conducted once every calendar week .24-hours after each rainfail even that produces on.
lations along the silt fence is extremely important. d be continually monitored and removed when
ent when it reaches 1/3 the height of the silt
laced in stockpile storage areas or spread thinly ze the removed sediment after it is relocated.
water runoff has eroded a channel beneath the has sagged or collapsed due to runoff tall checks/tie-backs and/or reinstall silt fence,
fence, areas where silt fence has begun to r circumstance that may render the silt fence d silt fence and reinstall new silt fence
within 30 days after final stabilization is achieved sulting disturbed area shall be permanently
South Carolina Department of
Health and Environmental Control
SILT FENCE
STANDARD DRAWING NO. SC-03 PAGE 2 of 2
GENERAL NOTES TEBRUARY 2014

ICE
ekly inspections, it removal.
protection shall be , as recommended, at produces
nt of the sediment sediment should be necessary.
aches 1/3 the height alled in front of the d when if fills
xpile storage areas or spread thinly across iment after it is relocated.
removed from in
ved after the J. Remove all ispose of them slevation of the drop s immediately.
Carolina Department of and Environmental Control
Type A NT TUBE INLET PROTECTION
16 NO. SC-07A PAGE 2 of 2
T TO SCALE FEBRUARY 2014



### **GENERAL NOTES**

- 1. THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, NECA STANDARD OF INSTALLATION (EDITIONS ADOPTED BY THE AHJ), AND ANSI/NEMA STANDARDS SHALL ESTABLISH THE MINIMUM REQUIREMENTS FOR INSTALLATION, BUT IN ADDITION, ALL WORK SHALL ALSO COMPLY WITH OWNER, OSHA, STATE, COUNTY, LOCAL OR MUNICIPAL CODE REQUIREMENTS AND THE RULES OF THE LOCAL ELECTRIC UTILITY. IN CASE OF CONFLICTS, CONFORM TO THE MORE STRINGENT REQUIREMENTS.
- 2. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY. IN CASES OF CONFLICTS BETWEEN THESE DESIGN DOCUMENTS AND REQUIREMENTS OF ANY OF THE ABOVE CRITERIA, CONTACT THE ENGINEER BEFORE PROCEEDING.
- 3. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INTEND TO CONVEY ELECTRICAL SCOPE OF WORK ONLY. NOT EVERY ELECTRICAL DETAIL, WIRE, OR CONDUIT IS SHOWN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO PROCUREMENT AND CONSTRUCTION ACTIVITIES.
- 4. FIRE PROTECTION, LIFE SAFETY, AND FIRE ALARM GENERAL REQUIREMENTS IF SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DESIGN IS DELEGATED TO A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA TO PROVIDE FIRE PROTECTION ENGINEERING AND DESIGN IN ACCORDANCE WITH APPLICABLE AND RELEVANT STANDARDS.
- 5. DEVIATIONS FROM THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND/OR OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 6. TO "PROVIDE" MEANS TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, AND SUPERVISION REQUIRED TO FURNISH AND INSTALL.
- 7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS, EQUIPMENT, AND INCIDENTALS REQUIRED FOR A FULLY FUNCTIONAL AND OPERATIONAL ELECTRICAL SYSTEM AS DESCRIBED BY THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL APPLY FOR, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES, AND PAY FOR ALL FEES ASSOCIATED WITH THE PROJECT.
- 8. EQUIPMENT AND MATERIALS PROVIDED SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAS BEEN ESTABLISHED FOR THAT TYPE OF EQUIPMENT / MATERIAL.
- 9. ALL SUBMITTALS SHALL BE REVIEWED BY THE PROJECT ENGINEER BEFORE INSTALLATION. SUBMIT SHOP DRAWINGS, CATALOG SHEETS, OR OTHER DESCRIPTIVE DATA WITH SUFFICIENT INFORMATION TO ESTABLISH DESIGN, QUALITY, AND PERFORMANCE.
- 10. PROVIDE EQUIPMENT NAMEPLATES FOR ALL EQUIPMENT. NAMEPLATES SHALL BE ENGRAVED THREE-LAYER LAMINATED PLASTIC, BLACK LETTERS ON WHITE BACKGROUND. USE MINIMUM 1/8 INCH LETTERS FOR IDENTIFYING INDIVIDUAL EQUIPMENT AND LOADS AND 1/4 INCH LETTERS FOR GROUPED EQUIPMENT AND LOADS. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING LABELS FOR ELECTRICAL EQUIPMENT PER NEC 110.16 AND OTHER ELECTRICAL LABELS AS REQUIRED BY OSHA AND NEC.
- 11. USE ONLY COPPER BUILDING WIRE WITH TYPE THWN/THHN (DUAL RATED) OR XHHW INSULATION (GROUND WIRES MAY BE TYPE TW FOR CIRCUITS RATED 100A OR LESS OR TYPE THW FOR CIRCUITS OVER 100A). WIRE SHALL BE SIZED AND COLOR CODED PER THE NEC. CONDUCTORS FOR POWER AND LIGHTING CIRCUITS SMALLER THAN #12 AWG ARE NOT PERMITTED.
- 12. ALL CIRCUITS SHALL BE RUN IN CONDUIT AND SHALL CONTAIN SEPARATE GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122. ALL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. FINAL CONNECTIONS (LESS THAN 6 FEET) TO ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE METAL CONDUIT (WITH GROUNDING CONDUCTOR). NONMETALLIC FLEX CONDUIT OR TUBING SHALL NOT BE USED. MINIMUM SIZE FOR CONDUIT SHALL BE 3/4". PROVIDE PULLWIRE FOR ALL EMPTY CONDUITS.
- 13. NO MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS (ON ALTERNATING PHASES) SHALL BE COMBINED IN ONE CONDUIT. PROVIDE A DEDICATED NEUTRAL FOR ALL CIRCUITS REQUIRING A NEUTRAL.
- 14. CONTRACTOR SHALL CONFORM WITH ALL OSHA AND NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REQUIREMENTS FOR ELECTRICAL SAFETY, INCLUDING PROPER LOCK-OUT / TAG-OUT PROCEDURES AND WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE). CONTRACTOR'S EMPLOYEES SHALL HAVE RECEIVED NFPA 70E ARC FLASH TRAINING.
- 15. CONTRACTOR SHALL PROVIDE SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION, AND ARC FLASH HAZARD ANALYSIS OF THE PROPOSED ELECTRICAL SYSTEM TO THE ENGINEER FOR REVIEW AND APPROVAL. AFFIX APPROVED ARC FLASH HAZARD LABELS TO ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH OSHA, NFPA 70E, AND IEEE 1584 INCLUDING SUCH INFORMATION AS INCIDENT ENERGY LEVELS, SYSTEM DATA, EQUIPMENT IDENTIFICATION, DATES, APPROACH BOUNDARIES, AND PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS.

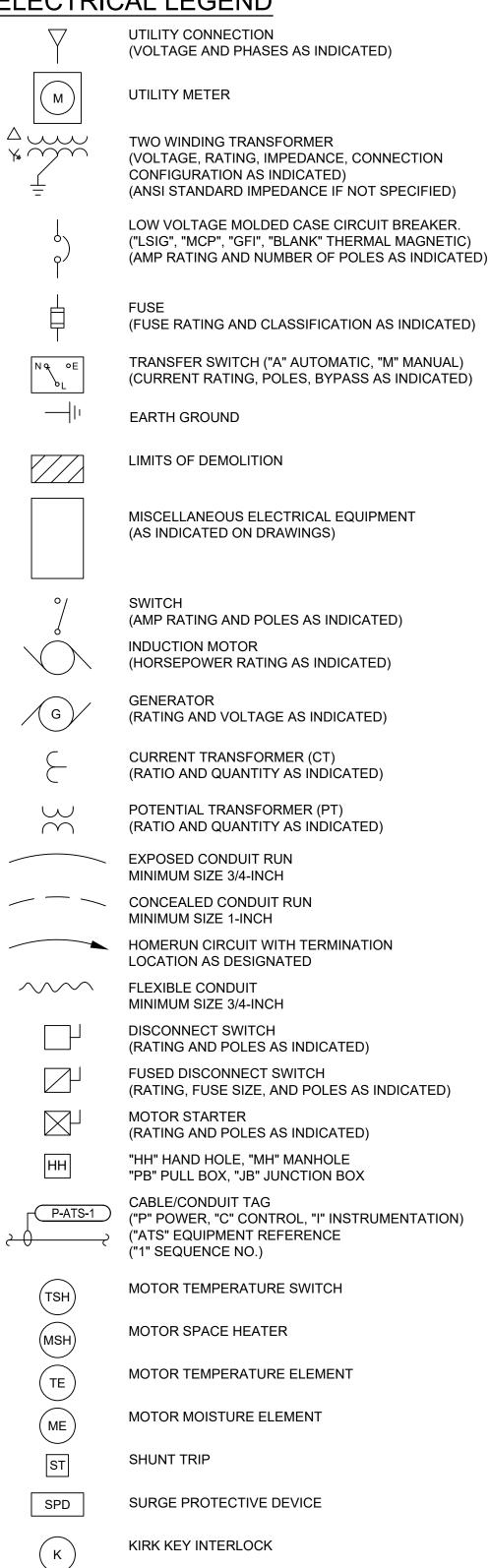
### ABBREVIATIONS

A OR AMP	AMPERES
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	
ARC AT	ALUMINUM RIGID CONDUIT
ATC	AUTOMATIC TRANSFER CONTROLLER
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
С	CONDUIT
/C	CONDUCTOR
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
CBL DS	CABLE DISCONNECT SWITCH
ESTOP	EMERGENCY STOP
EX	EXISTING
ΞP	EXPLOSION PROOF
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUND CONDUCTOR
	FUSE
G OR GND	
GEC GEN	GROUNDING ELECTRODE CONDUCTOR GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFI	GROUND FAULT INTERRUPTING
H-O-A	HAND-OFF-AUTO
HP	HORSEPOWER
JB	
<va <w< td=""><td>KILOVOLT - AMPS KILOWATTS</td></w<></va 	KILOVOLT - AMPS KILOWATTS
<wh< td=""><td>KILOWATT-HOUR</td></wh<>	KILOWATT-HOUR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
ME	MOISTURE ELEMENT
MLO	MAIN LUGS ONLY
MSH	MOTOR SPACE HEATER
N	
NC NO	NORMALLY CLOSED NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRICAL
PH,	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
	POWER MONITOR
-	
-	RIGID GALVANIZED STEEL STAINLESS STEEL
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TE	TEMPERATURE ELEMENT
TSH	TEMPERATURE SWITCH
TYP	TYPICAL
JG	UNDERGROUND
UL V	UNDERWRITER'S LABORATORIES
v VA	VOLTS VOLT AMPS
VAC	VOLTS ALTERNATING CURRENT
	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WEATHERHEAD
WP	WEATHER PROOF
XFMR	TRANSFORMER

### FIRE ALARM AND HVAC

FACP	FIRE ALARM CONTROL PANEL
F	MANUAL PULL STATION WALL MOUNTED AT 46 INCHES
S	SMOKE DETECTOR CEILING MOUNTED
SD	DUCT SMOKE DETECTOR
F	AUDIO/STROBE LIGHT COMBINATION MOUNTED AT 80 INCHES
▼ H	AUDIO UNIT WALL MOUNTED AT 80 IN
Т	THERMOSTAT
R	FIRE ALARM RELAY
FE	FIRE EXTINGUISHER
FS	FLOW SWITCH
PS	LOW PRESSURE SWITCH
TS	TAMPER SWITCH

### ELECTRICAL LEGEND



### **GROUNDING & LIGHTNING PROTECTION**

•	CONNECTION TO GROUND GRID. (MECHANICAL / CADWELD PER SPECIFICATIONS) GROUND ROD
•	GROUND TEST STATION
— G ——	GROUNDING GRID OR COUNTERPOISE SYSTEM CONDUCTOR
$\bigcirc$	LIGHTNING PROTECTION AIR TERMINAL
茶	LIGHTNING PROTECTION DISSIPATION AIR TERMINAL
— L ——	LIGHTNING PROTECTION SYSTEM CONDUCTOR
Ŧ	LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR

## OUTLETS AND RECEPTACLES

LP1-12	DUPLEX RECEPTACLE, 20A, 120V, MOUNTED AT 18 INCHES U.N.O. (CIRCUIT AS INDICATED)
LP1-12	QUADPLEX RECEPTACLE, 20A, 120V, MOUNTED AT 18 INCHES U.N.O. (CIRCUIT AS INDICATED)
LP1-12 GFI	DUPLEX RECEPTACLE, GFI, 20A, 120V, MOUNTED AT 18 INCHES U.N.O. (CIRCUIT AS INDICATED)
LP1-12	SPECIAL PURPOSE RECEPTACLE MOUNTED AT 18 INCHES U.N.O. (SEE PLANS FOR DETAILS)
LP1-12	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 120V (CIRCUIT AS INDICATED)
L	JUNCTION BOX
$\mathbf{\nabla}$	DATA OUTLET MOUNTED AT 18 INCHES U.N.O. (SEE PLANS FOR DETAILS)
T	TELEPHONE OUTLET MOUNTED AT 18 INCHES U.N.O. (SEE PLANS FOR DETAILS)
$\mathbf{V}$	TELEPHONE / DATA COMBINATION OUTLET MOUNTED AT 18 INCHES U.N.O. (SEE PLANS FOR DETAILS)

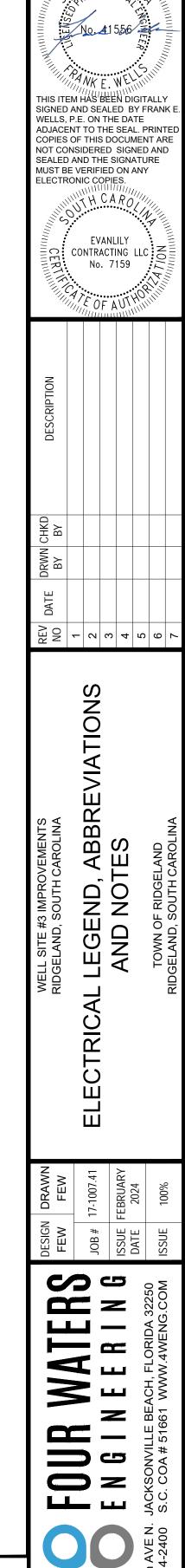
### LIGHTING

ALL

A	CEILING MOUNTED FIXTURE (FIXTURE TYPE AND CIRCUIT AS INDICATED)
A	CEILING MOUNTED FIXTURE WITH 90 MIN BATTERY BACKUP (FIXTURE TYPE AND CIRCUIT AS INDICATED)
$\bigcirc_{A}$	CEILING MOUNTED DOWN-LIGHT FIXTURE (FIXTURE TYPE AND CIRCUIT AS INDICATED)
A	CEILING MOUNTED DOWN-LIGHT FIXTURE W/ 90 MIN BATTERY BACKUP (FIXTURE TYPE AND CIRCUIT AS INDICATED)
	SURFACE MOUNTED OR SUSPENDED INDUSTRIAL STRIP FIXTURE (FIXTURE TYPE AND CIRCUIT AS INDICATED)
	WALL MOUNTED FIXTURE (FIXTURE TYPE AND CIRCUIT AS INDICATED)
A	TWIN HEAD FLOOD FIXTURE WITH BATTERY BACKUP (FIXTURE TYPE AND CIRCUIT AS INDICATED)
€ → <sub>A</sub>	EXIT SIGN FIXTURE, DO NOT SWITCH, PROVIDE ARROWS AS INDICATED, SHADING DENOTES FACE OPERATION (FIXTURE TYPE AND CIRCUIT AS INDICATED)
A	POLE MOUNTED LIGHT FIXTURE (FIXTURE TYPE AND CIRCUIT AS INDICATED)
\$	WALL SWITCH WALL MOUNTED AT 46 INCHES, 20A, 120/277V ("3" THREE WAY, "4" FOUR WAY, "D" DIMMER, "M" MOTOR RATED, "OS" INTEGRAL OCCUPANCY SENSOR)
Ś	LIGHTING CONTROL SENSOR (TYPE AS INDICATED)
PC	PHOTOCELL
DEVICES/PLATI	ES TO BE IN OWNERS CHOICE OF COLORS.

N WALL

El	<u>EMENT</u>	ARY WIRING SCHEMATICS PRESSURE SWITCH - NORMALLY OPEN
		PRESSURE SWITCH - NORMALLY CLOSED
		DIFFERENTIAL PRESSURE SWITCH -
	- Fo-	NORMALLY OPEN DIFFERENTIAL PRESSURE SWITCH -
	-	NORMALLY CLOSED TIME DELAY SWITCH - TIMER ON DELAY
	- <u>~</u> _~	(CLOSES AFTER TIMER EXPIRES) TIMER DELAY SWITCH - TIMER OFF DELAY
		(OPENS AFTER TIMER EXPIRES) VIBRATION SWITCH - NORMALLY OPEN
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	VIBRATION SWITCH - NORMALLY CLOSED
	—(x)—	COIL CONTACTS ("C" CONTROL RELAY, "LC" LIGHTING
		CONTACTOR, "M" MOTOR RELAY, "TD" TIME DELAY) NORMALLY OPEN CONTACT
	/f-0	NORMALLY CLOSED CONTACT
		LIMIT SWITCH - NORMALLY OPEN
	-0	LIMIT SWITCH - NORMALLY CLOSED
	$\sim$	LIQUID LEVEL (FLOAT) SWITCH - NORMALLY OPEN
	- To-	LIQUID LEVEL (FLOAT) SWITCH - NORMALLY CLOSED
-		TEMPERATURE SWITCH - NORMALLY OPEN
		TEMPERATURE SWITCH - NORMALLY CLOSED
		FLOW SWITCH - NORMALLY OPEN
		FLOW SWITCH - NORMALLY CLOSED
х	—————————————————————————————————————	TERMINAL BLOCK (TERMINAL NO. AND TERMINAL BLOCK AS INDICATED)
тв#		# EXTERNALLY MOUNTED DEVICE (DASHED LINE INDICATES WIRING EXTERNAL TO PANEL)
-		SELECTOR SWITCH ("X" INDICATES SWITCH POSITION AND QUANTITY AS INDICATED)
-		MOMENTARY PUSH BUTTON - NORMALLY OPEN
-		MOMENTARY PUSH BUTTON - NORMALLY CLOSED
-	_ <u>•</u> _•_	REMOTE SHUTDOWN/STOP - NORMALLY CLOSED
	SV	SOLENOID VALVE
	RTM	RUN TIME METER
0		HORN ELEMENT
	R	EXTERNALLY MOUNTED ALARM LIGHT
		PHOTOCELL
		PUSH TO TEST TYPE PANEL MOUNTED INDICATOR LIGHT ("A" AMBER, "G" GREEN, "R" RED, "W" WHITE, "B" BLUE)

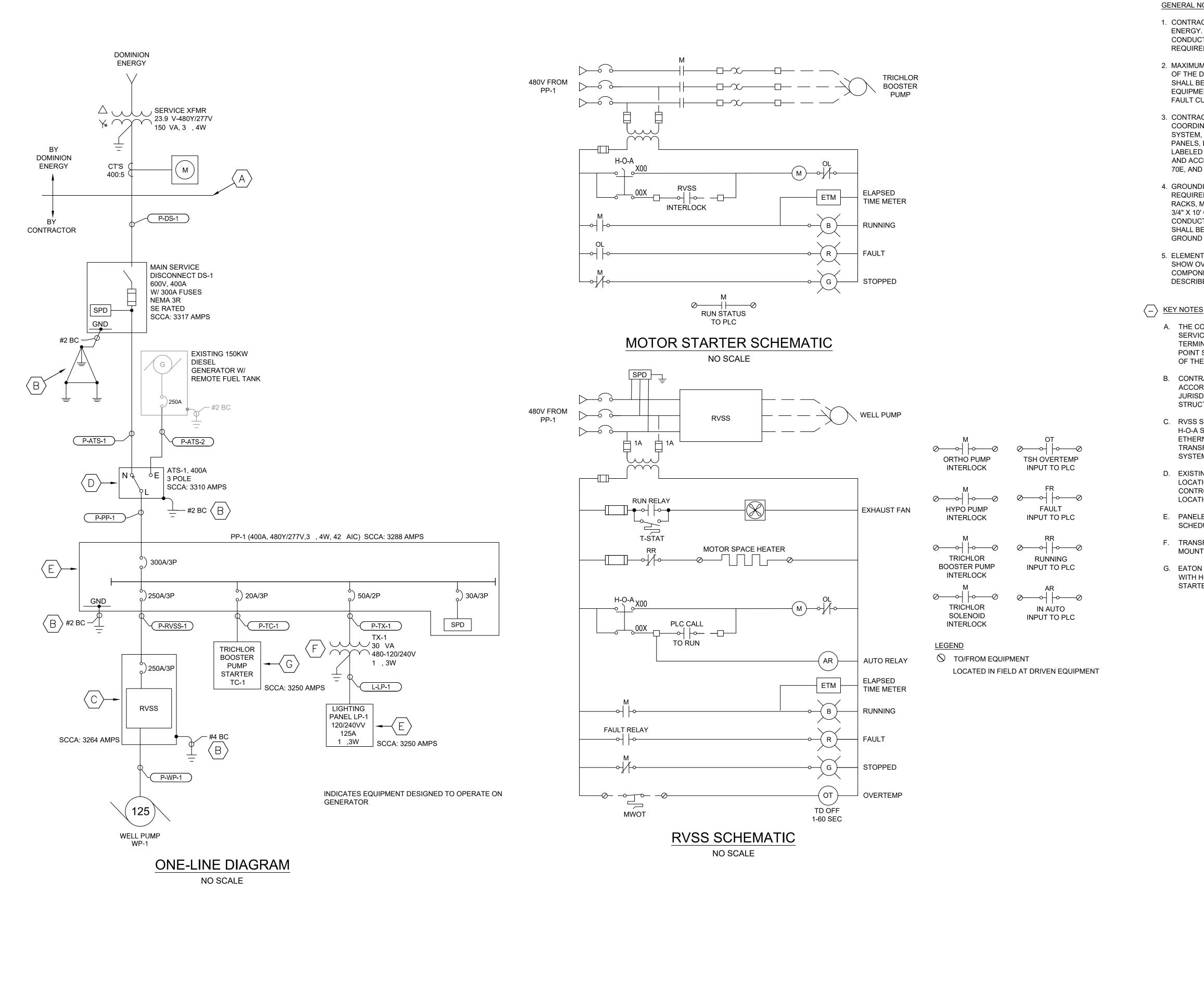


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DRAWING NUMBER



#### **GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE ELECTRIC SERVICE INSTALLATION WITH DOMINION ENERGY. CONTRACTOR WILL FURNISH AND INSTALL ALL RACEWAYS, SERVICE CONDUCTORS, SERVICE EQUIPMENT, WIREWAYS, LOAD CENTERS, AND FEEDERS AS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

2. MAXIMUM AVAILABLE FAULT CURRENT FROM THE UTILITY AT THE SECONDARY SIDE OF THE DOMINION ENERGY SERVICE TRANSFORMER IS ESTIMATED AT 2406 AMPS AND SHALL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION. ALL DOWNSTREAM EQUIPMENT SHALL BE SUFFICIENTLY RATED TO WITHSTAND MAXIMUM AVAILABLE FAULT CURRENTS.

3. CONTRACTOR SHALL PROVIDE ARC FLASH HAZARD ANALYSIS, PROTECTIVE DEVICE COORDINATION, AND SHORT CIRCUIT STUDY OF THE PROPOSED ELECTRICAL SYSTEM, INCLUDING ALL ELECTRICAL EQUIPMENT SUCH AS PANELBOARDS, CONTROL PANELS, DISCONNECT SWITCHES, AND MOTOR STARTERS, EQUIPMENT SHALL BE LABELED WITH SUCH THINGS AS APPROACH BOUNDARIES, INCIDENT ENERGY LEVELS, AND ACCEPTABLE PPE IN ACCORDANCE WITH OSHA 29 CFR, PART 1910, NEC, NFPA 70E, AND IEEE 1584 CURRENT EDITIONS.

4. GROUNDING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NEC AND AHJ REQUIREMENTS INTERCONNECTING ALL ELECTRICAL EQUIPMENT, EQUIPMENT RACKS, METAL PIPING, AND FOUNDATION REBAR. GROUND LOOP SHALL CONSIST OF 3/4" X 10' COPPER CLAD GROUND RODS WITH #2/0 AWG BARE COPPER GROUND CONDUCTOR AND GREEN INSULATED GEC CONDUCTOR SIZED PER NEC 250.66. GRID SHALL BE TESTED TO A MAXIMUM RESISTANCE OF 10 OHMS. DRIVE ADDITIONAL GROUND RODS AS REQUIRED TO MEET MAXIMUM RESISTANCE REQUIREMENTS.

5. ELEMENTARY SCHEMATIC DIAGRAMS SHOWN ARE DIAGRAMMATIC AND INTEND TO SHOW OVERALL SYSTEM REQUIREMENTS. THEY MAY NOT SHOW OR CALL OUT ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS DESCRIBED BY THESE DRAWINGS AND THE PROJECT SPECIFICATIONS.

A. THE CONTRACTOR SHALL EXTEND THE UNDERGROUND SERVICE CONDUITS TO THE SERVICE POINT OF CONNECTION AS DESIGNATED BY DOMINION ENERGY AND TERMINATE IN ACCORDANCE WITH DOMINION ENERGY REQUIREMENTS. SERVICE POINT SHALL BE A DOMINION ENERGY PROVIDED SERVICE HANDHOLE AT THE BASE OF THE RISER POLE.

B. CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NFPA 70, ARTICLE 250 AND LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. BOND GROUND WITH ADJACENT WATER PIPING, STRUCTURAL SUPPORTS AND FOUNDATION REBAR.

C. RVSS SHALL BE AN ENCLOSED EATON S811 T18P3S OR APPROVED EQUAL. PROVIDE H-O-A SWITCH, RUN (BLUE) AND FAIL (RED) PILOT LIGHTS, INTEGRAL 250A HMCP, ETHERNET CARD FOR COMMUNICATIONS FOR SCADA INTERFACE, CONTROL POWER TRANSFORMER, AUXILIARY RELAYS (120V, 10A) FOR CHEMICAL PUMP AND TRICHLOR SYSTEM OPERATION, AND A NEMA 3R ENCLOSURE.

D. EXISTING CUMMINS AUTOMATIC TRANSFER SWITCH TO BE RELOCATED TO NEW LOCATION AS SHOWN. LOCATE, INTERCEPT, AND REROUTE EXISTING POWER AND CONTROL CONDUITS AND CONDUCTORS FROM GENERATOR TO NEW SWITCH LOCATION. SEE DRAWING E-3/E-4 FOR ADDITIONAL INFORMATION.

E. PANELBOARDS SHALL BE PROVIDED WITH RATINGS AS SHOWN IN THE ELECTRICAL SCHEDULES ON DRAWING E-7.

F. TRANSFORMER SHALL BE AN EATON GENERAL PURPOSE VENTILATED FLOOR MOUNT WITH ALUMINUM WINDINGS.

G. EATON FREEDOM SERIES COMBINATION MOTOR STARTER, FVNR SIZE 1, NEMA 3R WITH H-O-A SWITCHES AND INDICATION LAMPS AS INDICATED. INTERLOCK MOTOR STARTER WITH RVSS TO RUN ONLY DURING WELL PUMP OPERATION.

ELECTRICAL LOAD CALCULATIONS			
DESCRIPTION SIZE		AMPS	
WELL PUMP (HP)	WELL PUMP (HP) 125		
POWER & CONTROLS (kVA)	POWER & CONTROLS (kVA) 30		
CONNECTED LOAD	192		
NON COINCIDENT LOAD	0		
PEAK DEMAND LOAD	192		
.25 X LARGEST MOTOR	39		
MIN SERVICE AMPACITY	231		
MIN MAIN BREAKER SIZE	289		
ELECTRICAL SERVICE REQUIRED:			
300A, 480V, 3PH, 4W			

# LOAD CALCULATION

NOT TO SCALE

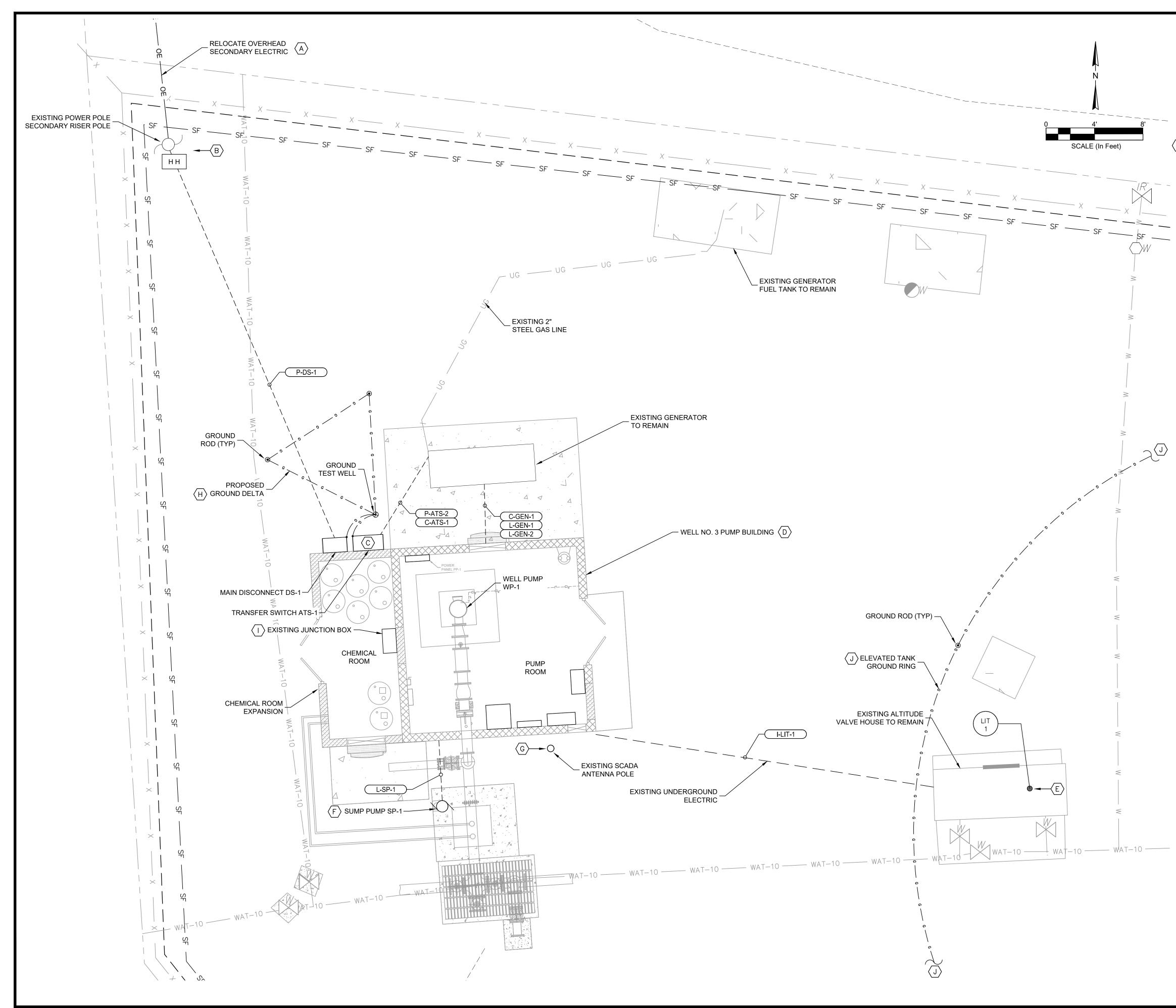


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E-2

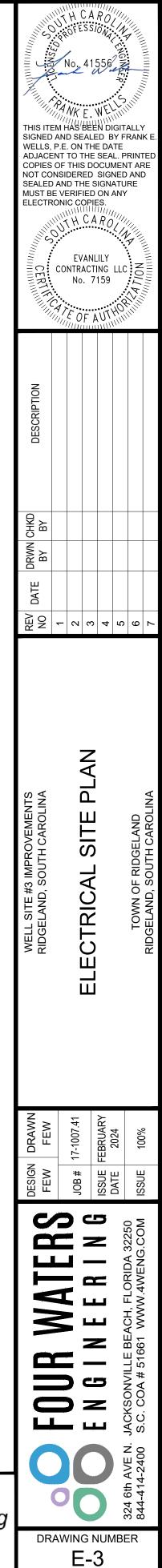


#### GENERAL NOTES

- 1. CONTRACTOR SHALL PROVIDE ALL RACEWAYS, CONDUCTORS, EQUIPMENT, AND OTHER ASSOCIATED COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THESE DRAWINGS AND THE PROVIDERS STANDARDS AND REQUIREMENTS.
- 2. ELECTRICAL CONTRACTOR SHALL COORDINATE AND COMPLETE ALL WORK IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS REQUIREMENTS AND APPROVED SHOP DRAWINGS.

#### $\langle - \rangle \underline{\text{KEY NOTES}}$

- A. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICES WITH DOMINION ENERGY REPRESENTATIVES IN THE FIELD DURING CONSTRUCTION. DOMINION ENERGY TO RELOCATE SECONDARY CONDUCTORS TO SECONDARY RISER POLE WITHIN WELL NO. 3 SITE FENCE LINE.
- B. CONTRACTOR SHALL PROVIDE SECONDARY CONDUITS AND SERVICE ENTRANCE CONDUCTORS BETWEEN RISER POLE SERVICE HANDHOLE AND NEW DISCONNECT SWITCH AT PUMP BUILDING IN ACCORDANCE WITH DOMINION ENERGY STANDARDS.
- C. EXISTING CUMMINS TRANSFER SWITCH SHALL BE RELOCATED TO THE NEW LOCATION AS SHOWN. EXISTING CONDUITS AND CONDUCTORS BETWEEN GENERATOR AND TRANSFER SWITCH SHALL BE INTERCEPTED, REROUTED, AND TURNED UP TO THE NEW SWITCH LOCATION.
- D. REFER TO ENLARGED BUILDING PLAN ON DRAWING E-4 FOR DETAILED INTERIOR BUILDING ELECTRICAL SYSTEMS.
- E. EXISTING ALTITUDE VALVE HOUSE TO REMAIN. EXISTING PRESSURE BASED TANK LEVEL TRANSMITTER SHALL BE RECONNECTED WITH THE NEW PLC CONTROL SYSTEM.
- F. SUMP PUMP SHALL HAVE AN INTEGRAL FLOAT SWITCH. SET FLOAT ELEVATION IN THE FIELD DURING CONSTRUCTION.
- G. EXISTING SCADA ANTENNA POLE. UPGRADES TO ANTENNA POLE, COAX CABLE, RADIO SYSTEMS, AND CONTROL PANEL SHALL BE BY THE SCADA SYSTEM SUPPLIER, LORD AND COMPANY INDUSTRIAL AUTOMATION, 2100 CAROLINA PLACE DRIVE, FORT MILL, SOUTH CAROLINA, 29708. PHONE NUMBER (803) 802.0060. CONTACT FOR PRICING ON SCADA SYSTEM.
- H. GROUNDING DELTA CONDUCTOR SHALL BE #2/0 AWG BARE COPPER BURIED 30-INCHES DEEP IN A DELTA CONFIGURATION. BOND ALL SERVICE ENTRANCE EQUIPMENT AS SHOWN IN SINGLE LINE DIAGRAM. REFER TO DETAILS DRAWING E-5.
- I. EXISTING JUNCTION BOX ON WEST EXTERIOR WALL SHALL BE INVESTIGATED BY THE CONTRACTOR DURING CONSTRUCTION. FINDINGS SHALL BE RELAYED TO THE ENGINEER AND THE OWNER FOR FURTHER DIRECTION. IF DEEMED NECESSARY FOR CONTINUED OPERATION, THE JUCNTION BOX AND CONTENTS SHALL BE RELOCATED ACCORDINGLY
- J. ELEVATED TANK GROUND RING SHALL EXTEND AROUND THE ENTIRE ELEVATED TANK AND SHALL CONSIST OF BARE #2/0 AWG COPPER CONDUCTOR BURIED 30-INCHES BELOW GRADE AND WITHIN 24-INCHES OF THE ELEVATED TANK FOUNDATIONS. GROUND RODS SHALL BE PLACED AT EACH ELEVATED TANK FOUNDATION WITH A #2/0 AWG BONDING JUMPER EXOTHERMICALLY WELDED TO THE ELEVATED TANK STRUCTURAL STEEL. GROUND GRID RESISTANCE SHALL BE TESTED TO A MAXIMUM OF 10 OHMS.

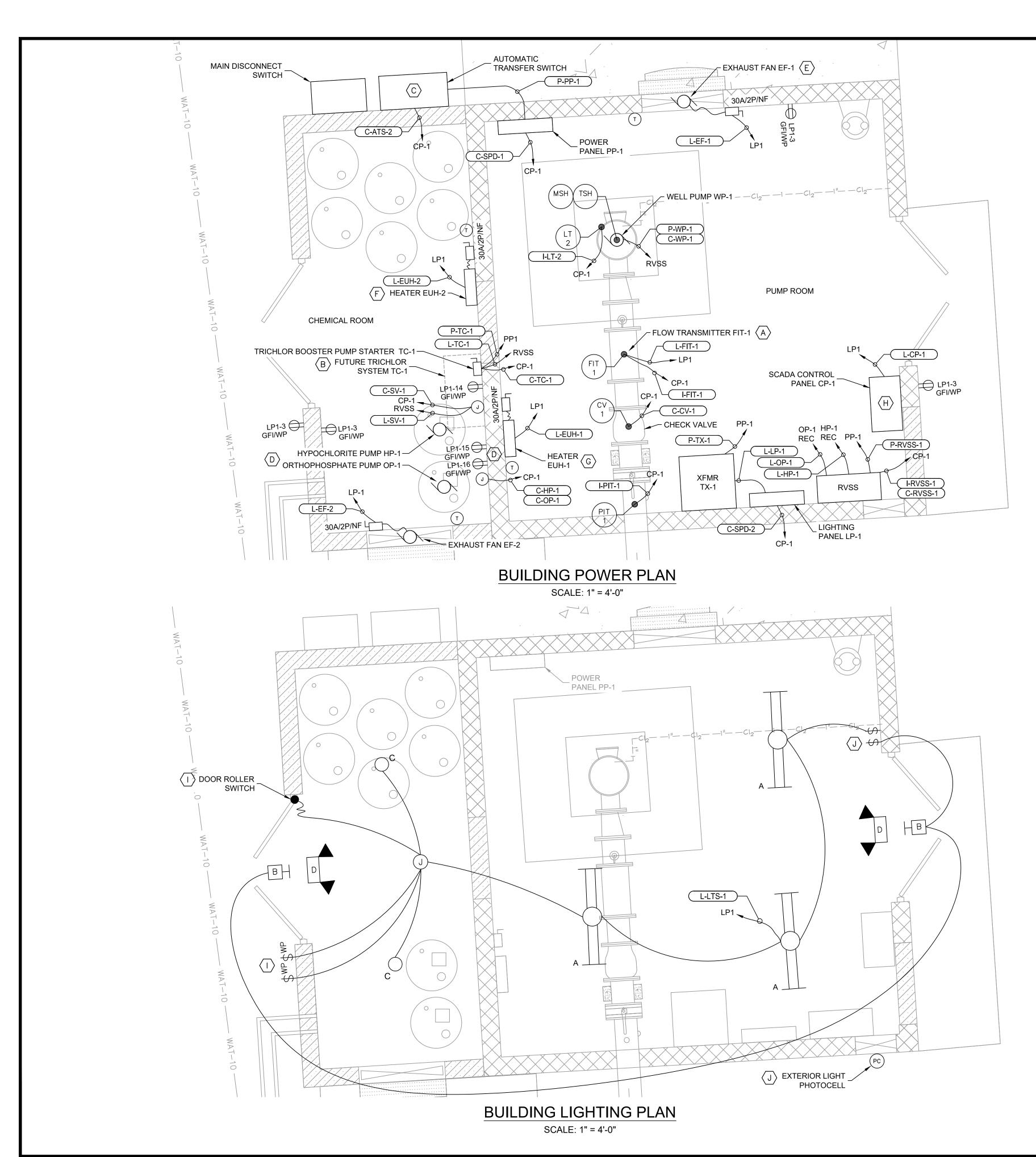


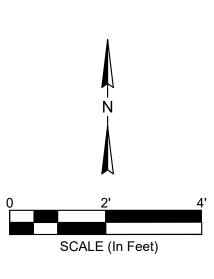


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LAST EDITED BY: FRANK





#### **GENERAL NOTES**

- 1. ALL LIGHTING AND RECEPTACLE CIRCUIT WIRING SHALL BE 1#12, 1#12N, 1#12G COPPER TYPE THHN IN CONDUIT UNLESS NOTED OTHERWISE. REFER TO ELECTRICAL SCHEDULES FOR ADDITIONAL INFORMATION.
- 2. BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS, NO SHARING OF NEUTRALS IS PERMITTED. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL END DEVICES AND SIZED IN ACCORDANCE WITH NFPA 70, 250.122.
- 3. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES AS REQUIRED FOR REQUIRED ROUGH IN REQUIREMENTS PRIOR TO CONSTRUCTION.
- 4. EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED TO CONSTANT HOT CONDUCTOR FROM ROOM LIGHTING CIRCUITS. DO NOT SWITCH.
- 5. INTERIOR BUILDING RECEPTACLES SHALL BE MOUNTED AT 42-INCHES AFF, UNLESS NOTED OTHERWISE.
- 6. CONDUITS, FITTING, BOXES, AND OUTLETS IN THE CHEMICAL ROOM SHALL BE SCHEDULE 80 PVC. SEAL PENETRATIONS TO PUMP ROOM WITH APPROVED SEALANT. DUCT SEAL ALL CONDUITS AT DEVICE AND JUNCTION BOXES, FIXTURES, AND EQUIPMENT ENCLOSURES.

#### $\langle - \rangle$ KEY NOTES

- A. FLOW ELEMENT AND METER SHALL BE AN ENDRESS HAUSER PROMAG W400 5WC2F-AAHLHA0DUA12GA, 120VAC, 4-20mA WITH ALUMINUM HOUSING. FLOW RATE SHALL BE 0 - 2,000 GPM.
- B. TRICHLOR SKID SYSTEM SHALL TO BE INSTALLED IN THE FUTURE. FURNISH AND INSTALL ELECTRICAL ACCOMMODATIONS NOW FOR FUTURE SYSTEM INCLUDING FVNR SIZE 1 MOTOR STARTER FOR FUTURE BOOSTER PUMP INTERLOCKED WITH RVSS TO RUN ONLY DURING WELL PUMP OPERATION, 120V CONTINUOUSLY POWERED RECEPTACLE FOR THE FUTURE CHLORVAC SYSTEM, AND POWER TO A JUNCTION BOX FOR THE FUTURE TRICHLOR SOLENOID VALVE POWERED FROM THE RVSS TO OPERATE ONLY DURING WELL PUMP OPERATION.
- C. EXISTING CUMMINS AUTOMATIC TRANSFER SWITCH TO BE RELOCATED TO NEW LOCATION AS SHOWN. LOCATE, INTERCEPT, AND REROUTE EXISTING POWER AND CONTROL CONDUITS AND CONDUCTORS FROM GENERATOR TO NEW SWITCH LOCATION.
- D. COORDINATE CHEMICAL PUMP REQUIREMENTS AND INSTALLATION LOCATIONS IN THE FIELD DURING CONSTRUCTION WITH OTHER DISCIPLINES. INSTALL DEDICATED 20A DUPLEX RECEPTACLES WITH WEATHERPROOF, IN-USE COVERS FOR EACH PUMP. ORTHOPHOSPHATE, HYPOCHLORITE, AND TRICHLOR SYSTEM RECEPTACLES SHALL BE INTERLOCKED WITH THE WELL PUMP RVSS TO OPERATE ONLY DURING WELL PUMP OPERATION. TRICHLOR SYSTEM FAN RECEPTACLE SHALL BE CONTINUOUSLY POWERED.
- E. CHEMICAL ROOM EXHAUST FAN SHALL BE GREENHECK MODEL CUE-095-6VG119XQD, 120VAC, 199-1167 CFM WITH FIBERGLASS BACKDRAFT DAMPER. PUMP ROOM EXHAUST FAN SHALL BE GREENHECK CUE-140-7VG122GQD, 120VAC, 851-2808 CFM WITH BACKDRAFT DAMPER. BOTH SHALL BE WALL FANS OR APPROVED EQUAL. FANS SHALL BE PROVIDED WITH WALL GRILLE, WALL MOUNT THERMOSTAT, AND INTEGRAL DISCONNECT. FANS SHALL BE FABRICATED WITH ALUMINUM HOUSING AND IMPELLER WITH HI-PRO POLYESTER COATING FOR CORROSIVE ATMOSPHERES. MOUNT FAN IN CHEMICAL ROOM 1'-0" ABOVE FINISHED FLOOR ELEVATION. CONFIRM THERMOSTAT SETPOINT IN FIELD WITH OWNER DURING CONSTRUCTION.
- F. ELECTRIC UNIT HEATER SHALL BE QMARK GUX300812 OR APPROVED EQUAL. PROVIDE WITH WALL MOUNT BRACKET AND WALL MOUNT THERMOSTAT. RATINGS SHALL BE 3KW, 240V, 1PH. PROVIDE 30A/2P/NF ELECTRICAL DISCONNECT WHERE NOT INTEGRAL TO THE MECHANICAL EQUIPMENT. CONFIRM THERMOSTAT SETPOINT IN FIELD WITH OWNER DURING CONSTRUCTION.
- G. ELECTRIC UNIT HEATER SHALL BE QMARK MUH0381 OR APPROVED EQUAL. PROVIDE WITH WALL MOUNT BRACKET AND WALL MOUNT THERMOSTAT. RATINGS SHALL BE 3KW, 240V, 1PH. PROVIDE 30A/2P/NF ELECTRICAL DISCONNECT WHERE NOT INTEGRAL TO THE MECHANICAL EQUIPMENT. CONFIRM THERMOSTAT SETPOINT IN FIELD WITH OWNER DURING CONSTRUCTION.
- H. CONTROL PANEL SHALL BE FURNISHED AND INSTALLED BY THE SCADA SYSTEM SUPPLIER, UNDER THE EDA WATER AND SEWER RESILIENCY PROJECT, LORD AND COMPANY INDUSTRIAL AUTOMATION, 2100 CAROLINA PLACE DRIVE, FORT MILL, SOUTH CAROLINA, 29708. PHONE NUMBER (803) 802.0060. REROUTE ALL EXISTING INSTRUMENTATION AND CONTROL CIRCUITS FOR THE GENERATOR, TRANSFER SWITCH, AND ELEVATED TANK TO THE NEW CONTROL PANEL LOCATION. CIRCUITS AND CONDUCTORS THAT WILL NOT RELOCATE TO THE NEW PANEL LOCATION SHALL BE PULLED NEW FROM POINT TO POINT, SPLICES ARE NOT ALLOWED UNLESS DIRECTLY APPROVED BY OWNER. FURNISH NEW CIRCUITS AS REQUIRED FOR THE NEW INSTRUMENTATION SYSTEMS.
- I. PROVIDE SEPARATE MANUAL SWITCHES FOR THE CHEMICAL ROOM LIGHTS AND CHEMICAL ROOM EXHAUST FAN. PROVIDE DOUBLE POLE SINGLE THROW ROLLER SWITCH IN DOOR FRAME FOR AUTOMATIC CHEMICAL ROOM LIGHT AND FAN OPERATION WHEN DOOR IS OPENED.
- J. PROVIDE 3-POSITION SWITCH FOR EXTERIOR LIGHT OPERATION. UP FOR PHOTOCELL CONTROL, CENTER FOR OFF, AND DOWN FOR MANUAL CONTROL.



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WELLS, P.E. ON THE DATE

MUST BE VERIFIED ON ANY

ELECTRONIC COPIES.

THIS ITEM HAS BEEN DIGITALLY

SIGNED AND SEALED BY FRANK

ADJACENT TO THE SEAL. PRINTE

COPIES OF THIS DOCUMENT ARE

NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE

WE

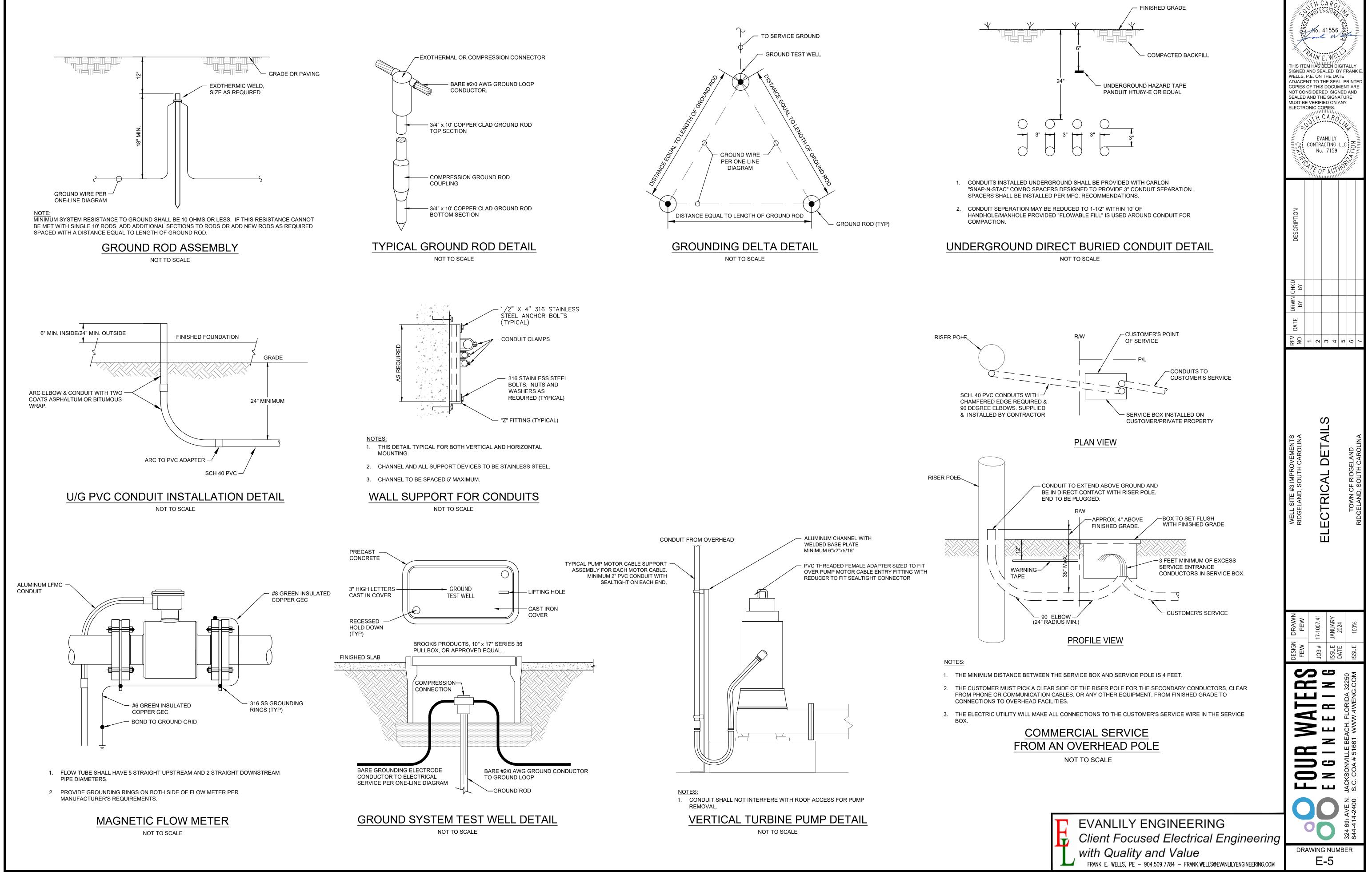


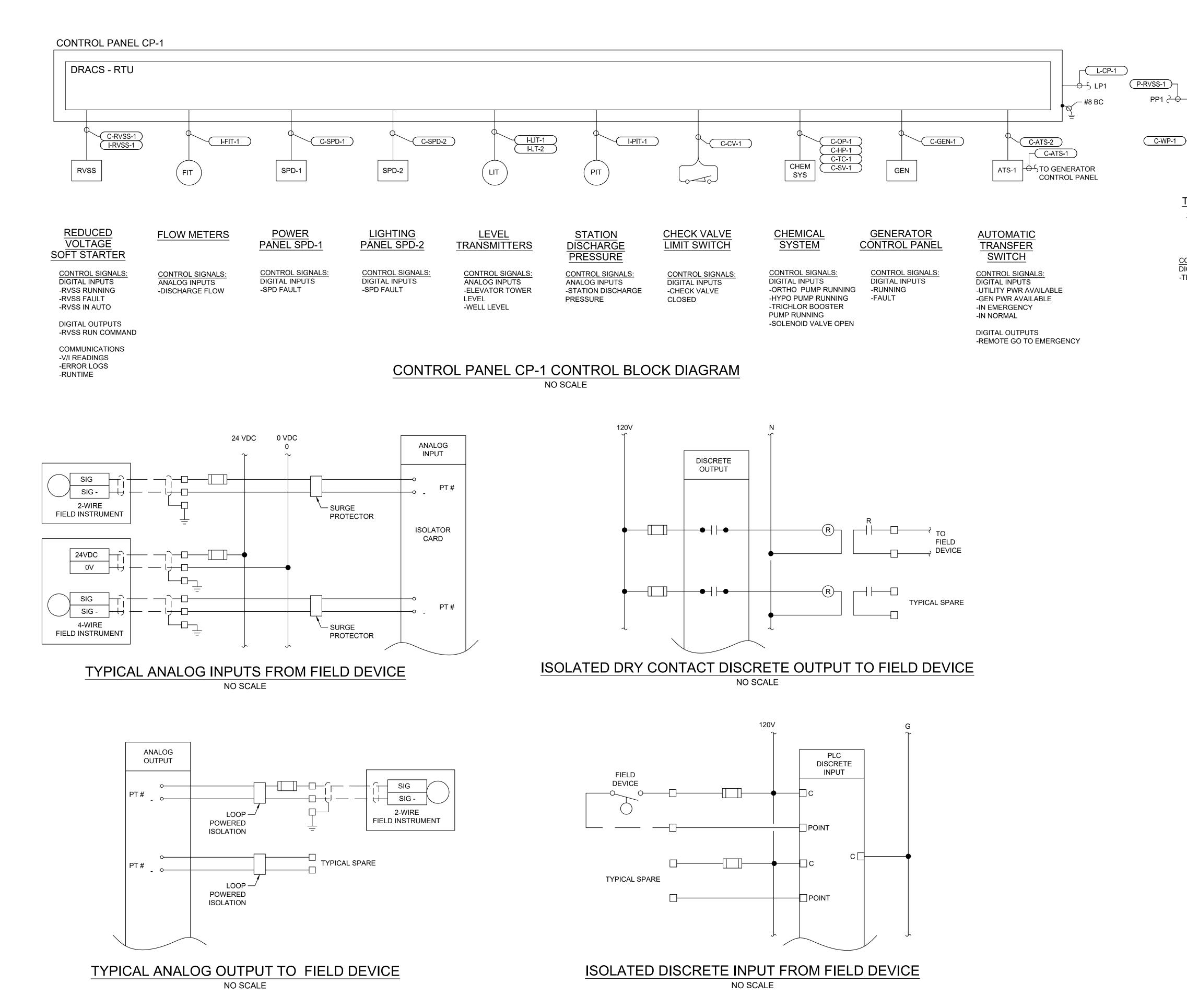
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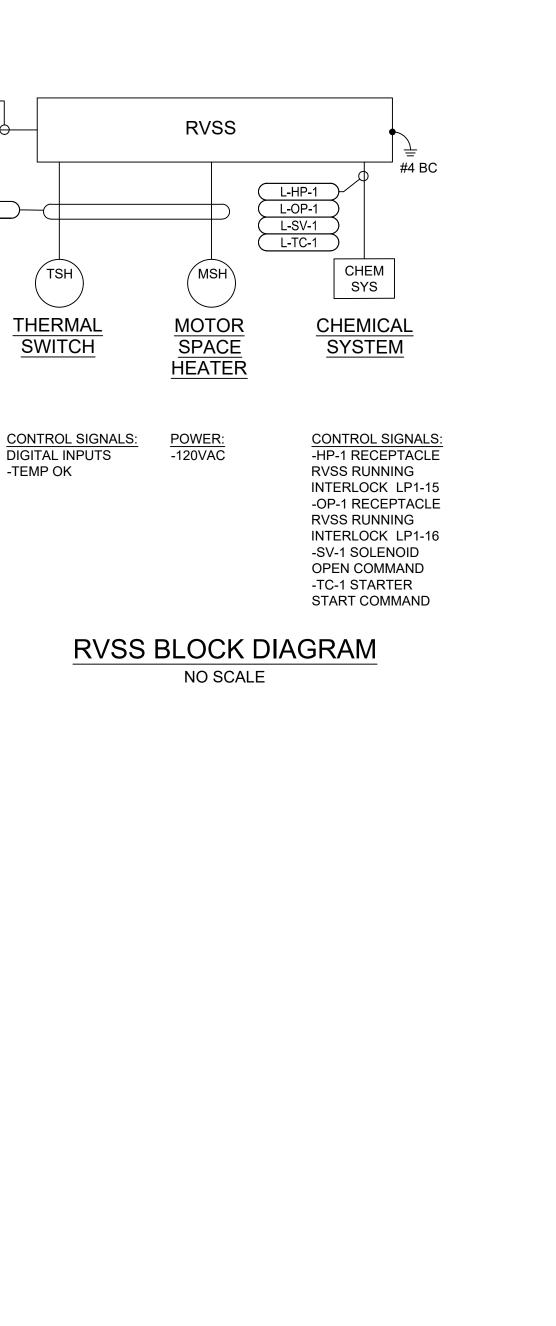
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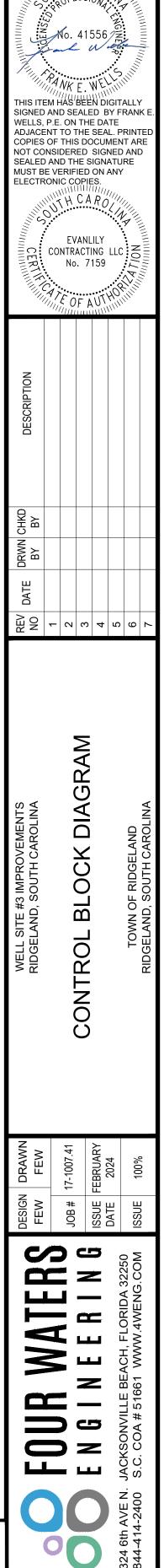
DRAWING NUMBER

E-4









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GENERAL NOTES

1. CONTROL PANEL SHALL BE FURNISHED AND INSTALLED BY THE SCADA SYSTEM SUPPLIER, UNDER THE EDA WATER AND SEWER RESILIENCY PROJECT, LORD AND COMPANY INDUSTRIAL AUTOMATION, 2100 CAROLINA PLACE DRIVE, FORT MILL, SOUTH CAROLINA, 29708. PHONE NUMBER 803 802.0060. REROUTE ALL EXISTING INSTRUMENTATION AND CONTROL CIRCUITS FOR THE GENERATOR, TRANSFER SWITCH, AND ELEVATED TANK TO THE NEW CONTROL PANEL LOCATION. CIRCUITS AND CONDUCTORS THAT WILL NOT RELOCATE TO THE NEW PANEL LOCATION SHALL BE PULLED NEW FROM POINT TO POINT, SPLICES ARE NOT ALLOWED UNLESS DIRECTLY APPROVED BY OWNER. FURNISH NEW CIRCUITS AS REQUIRED FOR THE NEW INSTRUMENTATION SYSTEMS.



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DRAWING NUMBER E-6

## LIGHTING PAINEL LP-1 SCHEDULE

				LIGHTING PANEL LP-1		LOCATION:			PUMP ROOM					
OPTION	S													
/OLTS L	-L:	24	40	MAIN OVERCURRENT:	12	5A MCB	BUS MATERIAL:	Cu	MOUNTING:	SURFACE				
VOLTS L	-N:	12	20	MAIN BUS RATING:		125A	NEUTRAL SIZE:	100%	ENCLOSURE TYPE:		NEM	A 3R		
PHASE:			1	MINIMUM A.I.C.:		14kA			GROUND:		EQUIP	MENT	IENT	
WIRE:			3											
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE	PHASE	VA	DESCRIPTION	TYPE	POLE	BKR.	СК	
1	20	1		BLDG LIGHTS	300	1800		1500	EUH-1		2	30	2	
3	20	1		BLDG RECEPTS	720		2220	1500	(2#10, 1#10G)		Z	50	4	
5	20	1		CONTROL PANEL CP-1 (2#10, 1#10G)	1200	2700		1500	EUH-2 (2#10, 1#10G)		2	30	6	
7	20	1		GEN BATTERY CHARGER	1200		2700	1500					8	
9	20	1		FIT-1	600	2256		1656	EF-1 (1#10, 1#10N, 1#10G)		1	25	10	
11	25	2		GEN COOLANT HEATER	1000		1528	528	EF-2		1	20	12	
13	- 25	2		(1#10, 1#10N, 1#10G)	1000	1600		600	TRICHLOR TC-1		1	20	14	
15	20	1		HYPO PUMP RECEPT (VIA RVSS)	600		1200	600	ORTHOPHOSPHATE PUMP RECEPT (VIA RVSS)		1	20	16	
17	20	1		SPARE		1140		1140	SUMP PUMP SP-1		1	20	18	
19	20	1		SPARE			0		SPARE		1	20	20	
21	20	1		SPARE		0			SPARE		1	20	22	
23							0						24	
25						0							2	
27							0						28	
29						0							30	
31							0						32	
33						10		10	SPD-2		2	20	34	
35							10	10	(NOTE 1)		2	30	30	
		-		TOTAL CONNECTED LOAD (\	/A) PER PHASE:	9506	7658							
				CONNECTED LOAD (AM	PS) PER PHASE	79	64							
				TOTAL CONNECT	ED LOAD (VA):	17164								
				TOTAL CONNECTED	LOAD (AMPS):	72								
NOTES:	•				·		•							
1	PROVID	E MANUI	ACTURE	S STANDARD UL 1449 INTEGRAL SURG	GE PROTECTION	DEVICE.								
2	ALL CIR	CUITS AR	E 1#12, 1	L#12N, 1#12G IN 3/4" RIGID ALUMINU	IM CONDUIT UN	ILESS NOTED OT	HERWISE.							
2	CONTRA	ACTOR SH	IALL PRC	VIDE A LAMINATED PANEL SCHEDULE	IN CLEAR PLAST	TIC SLEEVE ADHE	RED TO INSIDE OF PAN	EL COVER.						
4	CONTRA	ACTOR SH	IALL COC	ORDINATE FINAL BREAKER SIZES FOR A	LL LOADS IN TH	E FIELD DURING	CONSTRUCTION WITH	APPROVED	VENDOR DRAWINGS.					

# POWER PANEL PP-1 SCHEDULE

0,				517102		10			10			
39				SPACE			10		10	(1		
41				SPACE				10	10	(		
				TOTAL CONNECTED LOAD (VA	) PER PHASE:	52760	51400	44570				
				CONNECTED LOAD (AMPS	) PER PHASE:	190	186	161				
				TOTAL CONNECTED	D LOAD (VA):	148730						
				TOTAL CONNECTED LO	OAD (AMPS):	179						
NOTES:												
1	PROVID	E MANUF	ACTURE	S STANDARD UL 1449 INTEGRAL SURGE	PROTECTION	DEVICE.						
2	PROVID	E PRINTE	D PANEL	SCHEDULE AFFIXED TO INSIDE OF PANE	L DOOR.							
3	CONTRA	ACTOR SH	IALL COO	CONTRACTOR SHALL COORDINATE ALL LOADS IN THE FIELD DURING CONSTRUCTION WITH APPROVED VENDOR DRAWINGS.								

				POWER PANEL PP-1			LOCATION:			PUMP ROOM					
VC	LTS L-L:	48	0	MAIN OVERCURRENT:	300A	МСВ	BU	S MATERIAL:	Cu	MOUNTING:	SUR	FACE			
VO	LTS L-N:	27	7	MAIN BUS RATING:	40	0A	N	EUTRAL SIZE:	100%	ENCLOSURE TYPE: NEMA 3F		1A 3R			
	PHASE:	3		MINIMUM A.I.C.:	42	kA				GROUND: EQUIPME		PMENT			
	WIRE:	4	Ļ												
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE A	PHASE B	PHASE C	VA	DESCRIPTION	TYPE POLE	BKR.	CKT#		
1					43230	51420			8190	TRANSFORMER TX-1			2	50	2
3	300	3		WELL PUMP RVSS (3 #3/0, 1 #4G)	43230		50060		6830	(2#8, 1 #10G)	2	50	4		
5					43230			43230		SPACE			6		
7					1330	1330				SPACE			8		
9	20	3		TRICHLOR SYSTEM BOOSTER PUMP (3 #12, 1 #12G)	1330		1330			SPACE			10		
11				(0)0,	1330			1330		SPACE			12		
13				SPACE		0				SPACE			14		
15				SPACE			0			SPACE			16		
17				SPACE				0		SPACE			18		
19				SPACE		0				SPACE			20		
21				SPACE			0			SPACE			22		
23				SPACE				0		SPACE			24		
25				SPACE		0				SPACE			26		
27				SPACE			0			SPACE			28		
29				SPACE				0		SPACE			30		
31				SPACE		0				SPACE			32		
33				SPACE			0			SPACE			34		
35				SPACE				0		SPACE			36		
37				SPACE		10			10				38		
39				SPACE			10		10	SPD-1 (NOTE 1)	1	30	40		
41				SPACE				10	10	(			42		
				TOTAL CONNECTED LOAD (VA)	PER PHASE:	52760	51400	44570							
				CONNECTED LOAD (AMPS)	PER PHASE:	190	186	161							
				TOTAL CONNECTED	LOAD (VA):	148730									
				TOTAL CONNECTED LO	AD (AMPS):	179									
IOTES:															
1	PROVID	E MANUF	ACTURES	S STANDARD UL 1449 INTEGRAL SURGE F	PROTECTION	DEVICE.									
2	PROVID	E PRINTEI	D PANEL	SCHEDULE AFFIXED TO INSIDE OF PANEL	DOOR.										

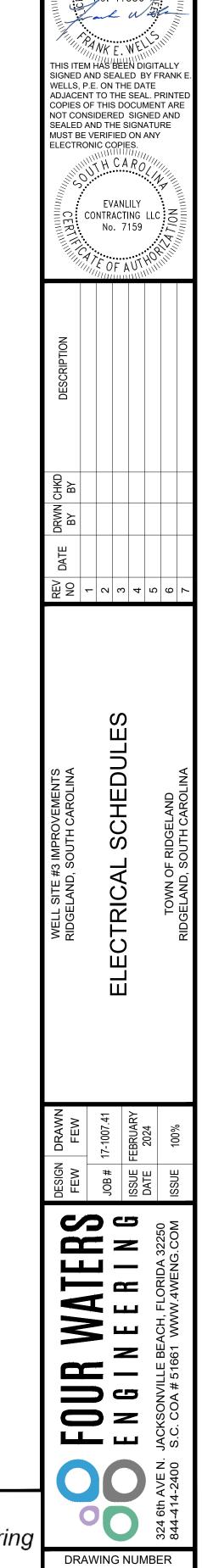
			CONI	DUIT AND CONDUCTOR SCHEDULE		
CIRCUIT ID	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	ТО	NOTES
C-ATS-1	1	3/4"	2#14, 1#14G	TRANSFER SWITCH ATS-1	GENERATOR	PARTIAL EXISTING CONDUIT
C-ATS-2	1	3/4"	10#14, 1#14G	TRANSFER SWITCH ATS-1	CONTROL PANEL CP-1	
C-CV-1	1	3/4"	2#14, 1#14G	CHECK VALVE CV-1	CONTROL PANEL CP-1	
C-GEN-1	1	1"	8#14, 1#14G	GENERATOR	CONTROL PANEL CP-1	PARTIAL EXISTING CONDUIT
C-HP-1	1	3/4"	2#14, 1#14G	PUMP HP-1 RECEPT	CONTROL PANEL CP-1	
C-OP-1	1	3/4"	2#14, 1#14G	PUMP OP-1 RECEPT	CONTROL PANEL CP-1	
C-RVSS-1	1	3/4"	8#14, 1#14G	RVSS	CONTROL PANEL CP-1	
C-SPD-1	1	3/4"	2#14, 1#14G	POWER PANEL PP-1 SPD	CONTROL PANEL CP-1	
C-SPD-2	1	3/4"	2#14, 1#14G	LIGHTING PANEL LP-1 SPD	CONTROL PANEL CP-1	
C-SV-1	1	3/4"	2#14, 1#14G	TRICHLOR SOLENOID SV-1	CONTROL PANEL CP-1	
C-TC-1	1	3/4"	2#14, 1#14G	TRICHLOR STARTER TC-1	CONTROL PANEL CP-1	
C-WP-1	1	3/4"	4#14, 1#14G	RVSS	WELL PUMP WP-1	
I-FIT-1	1	3/4"	1-2PR#18 TWIS	DISCHARGE FLOW FIT-1	CONTROL PANEL CP-1	
I-LIT-1	1	1"	1-2PR#18 TWIS	TOWER LEVEL LIT-1	CONTROL PANEL CP-1	PARTIAL EXISTING CONDUI
I-LT-2	1	3/4"	1-2PR#18 TWIS	WELL PUMP LEVEL LT-2	CONTROL PANEL CP-1	
I-PIT-1	1	3/4"	1-2PR#18 TWIS	DISCHARGE PRESSURE PIT-1	CONTROL PANEL CP-1	
I-RVSS-1	1	3/4"	1-ETHERNET	RVSS	CONTROL PANEL CP-1	
L-CP-1	1	3/4"	1#10, 1#10N, 1#10G	LIGHTING PANEL LP-1	CONTROL PANEL CP-1	
L-EF-1	1	3/4"	1#10, 1#10N, 1#10G	LIGHTING PANEL LP-1	EXHAUST FAN EF-1	
L-EF-2	1	3/4"	1#12, 1#12N, 1#12G	LIGHTING PANEL LP-1	EXHAUST FAN EF-2	
L-EUH-1	1	1"	2#10, 1#10G	LIGHTING PANEL LP-1	HEATER EUH-1	
L-EUH-2	1	1"	2#10, 1#10G	LIGHTING PANEL LP-1	HEATER EUH-2	
L-FIT-1	1	3/4"	1#12, 1#12N, 1#12G	DISCHARGE FLOW FIT-1	LIGHTING PANEL LP-1	
L-GEN-1	1	1"	1#12, 1#12N, 1#12G	GENERATOR BATTERY CHARGER	LIGHTING PANEL LP-1	PARTIAL EXISTING CONDUI
L-GEN-2	1	1"	2#10, 1#10G	GENERATOR COOLANT HEATER	LIGHTING PANEL LP-1	PARTIAL EXISTING CONDUI
L-HP-1	1	3/4"	2#12, 1#12G	RVSS	CHEMICAL PUMP HP-1 RECEPTACLE	RVSS INTERLOCK
L-LP-1	1	1-1/2"	2#2, 1#2N, 1#2G	TRANSFORMER TX-1	LIGHTING PANEL LP-1	
L-LTS-1	1	3/4"	1#12, 1#12N, 1#12G	BUILDING LIGHTS	LIGHTING PANEL LP-1	
L-OP-1	1	3/4"	2#12, 1#12G	RVSS	CHEMICAL PUMP OP-1 RECEPTACLE	RVSS INTERLOCK
L-REC-1	1	3/4"	1#12, 1#12N, 1#12G	BUILDING RECEPTACLES	LIGHTING PANEL LP-1	
L-SP-1	1	1"	1#12, 1#12N, 1#12G	LIGHTING PANEL LP-1	SUMP PUMP SP-1	
L-SV-1	1	3/4"	4#14, 1#14G	RVSS	SOLENOID SV-1 J-BOX	RVSS INTERLOCK
L-TC-1	1	3/4"	4#14, 1#14G	RVSS	TRICHLOR STARTER TC-1	RVSS INTERLOCK
P-ATS-1	1	3"	3#350, 1#350N, 1#350G	MAIN DISCONNECT DS-1	TRANSFER SWITCH ATS-1	
P-ATS-2	1	3"	3#350, 1#350N, 1#350G	GENERATOR	TRANSFER SWITCH ATS-1	
P-DS-1	1	3"	3#350, 1#350N	SERVICE HANDHOLE	MAIN DISCONNECT SWITCH DS-1	
P-PP-1	1	3"	3#350, 1#350N, 1#350G	POWER PANEL PP-1	MAIN DISCONNECT DS-1	
P-RVSS-1	1	2"	3#3/0, 1#3/0G	POWER PANEL PP-1	RVSS	
P-TC-1	1	3/4"	3#12, 1#12G	POWER PANEL PP-1	TRICHLOR STARTER TC-1	
P-TX-1	1		3#8, 1#8G	POWER PANEL PP-1	TRANSFORMER TX-1	
P-WP-1	1	2"	3#3/0, 1#3/0G	RVSS	WELL PUMP WP-1	

CONDUIT	AND	COND	UCTO

		LIGH	TING FIXTURE	SCHEDULE - NO	TES 1, 2, 3				
MARK	MFR.	CATALOG NUMBER.	LAMP	VOLTAGE	MOUNTING	WATTS	HEIGHT	REMARKS	
А	LITHONIA	PUMP ROOM - VAPOR TIGHT LED CSVT-L48-4000LM-MVOLT-SWW3-80CRI	LED	120	CEILING	42	10'-0"	PROVIDE WITH STAINLESS STEEL LATCHES	
В	LITHONIA	EXTERIOR - WALL PACK WPX1-LED-P1-40K-MVOLT-2900LM-DDBXD	LED	120	WALL	24	8'-6"	EXTERIOR WALL PACK	
С	KILLARK	CHEMICAL ROOM - HAZARDOUS NON-METALLIC NVL-2-30-X-2-G	LED	120	CEILING	20	10'-0"	PROVIDE WITH GUARD	
D	LITHONIA	EMERGENCY / EXIT COMBO LIGHT LHQM-LED-R-M6	LED	120	WALL	4.3	8'-6"	MOUNT ABOVE EXIT DOOR	
NOTES:			•	•					
1	CONTRACTOR SH	ALL PROVIDE FIXTURES SPECIFIED OR ENGINEER APPROV	ED EQUAL.						
2	2 CONTRACTOR SHALL VERIFY ALL LOCATIONS AND MOUNTING HEIGHTS PRIOR TO CONSTRUCTION.								
3	CONTRACTOR SU	BMIT ALL MATERIALS FOR REVIEW AND APPROVAL PRIOR	TO ORDERING.						

## FIXTURE SCHEDULE

## OR SCHEDULE



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E-7

# PROJECT PARTICIPANTS

OWNER

TOWN OF RIDGELAND 1 TOWN SQUARE RIDGELAND, SC 29936

## **CIVIL AND ENVIRONMENTAL** ENGINEERING

FOUR WATER ENGINEERING

324 6TH AVE JACKSONVILLE BEACH, FLORIDA 32250

CONTACT: ANGELA BRYAN, PE, LEED AP PHONE: 844-414-2400 EMAIL: abryan@4weng.com

## ARCHITECT

WOODS DENDY ARCHITECTS, LLC 2201 BOUNDARY ST

BEAUFORT, SC 29902 PHONE:

EMAIL:

CONTACT: GRADY L. WOODS, AIA, NCARB 843 379 7730 thenry@woodsdendy.com

## STRUCTURAL

SOUTHERN CONSULTING AND ENGINEERING, INC 105 CENTRAL AVE 100A GOOSE CREEK, SC

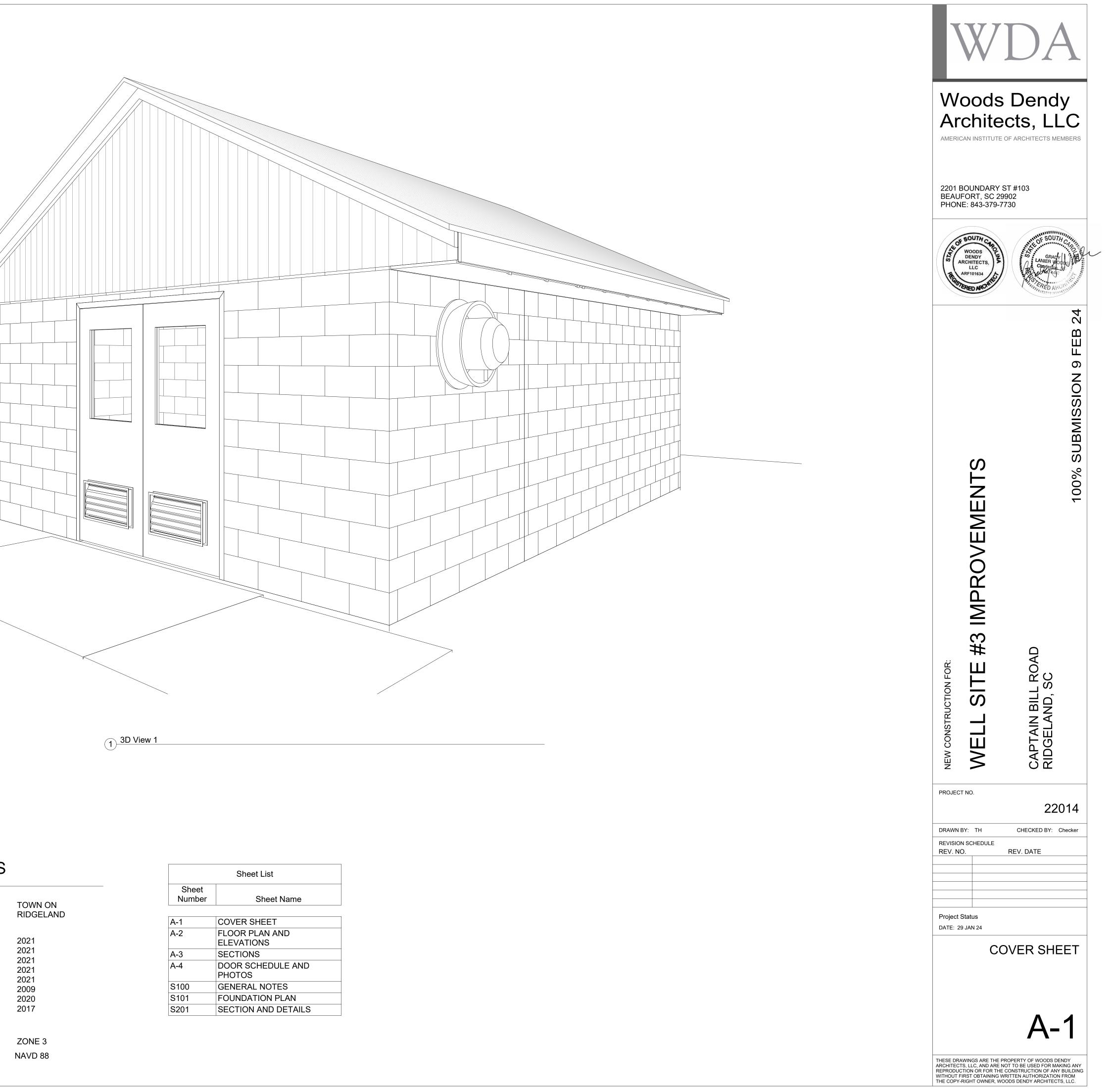
CONTACT: ADAM AUSTIN, PE PHONE: 843-718 - 2525

- ARCHITECT IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THESE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE. THE ABOVE NAMED COMPANY AND ARCHITECT OF RECORD ARE NOT LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON REQUEST.
- 3. ALL WORK SHALL CONFORM TO PREVAILING CODES, ORDINANCES AND REQUIREMENTS, CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.
- 4. EXISTING CONDITIONS AND ACTUAL FIELD CONDITIONS MAY VARY FROM INDICATIONS ON DRAWINGS. ALL NEW WORK RELATED TO OR AFFECTED BY EXISTING CONDITIONS SHALL BE MODIFIED TO ACHIEVE THE INTENT OF THE DRAWINGS (COORDINATE WITH ARCHITECT AND OWNER), THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER AND THE ARCHITECT BEFORE PROCEEDING WITH DIRECTLY AFFECTED DEMOLITION OR CONSTRUCTION.
- THE CONTRACTOR SHALL SURVEY PROJECT SITE 5 BEFORE BEGINNING ANY WORK TO VERIFY EXISTING CONDITIONS, REPORT ANY DISCREPANCIES TO OWNER AND ARCHITECT BEFORE BEGINNING WORK.
- PRIOR TO ANY NEW WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT OF ANY UNFORESEEN EXISTING CONDITIONS IN NEED OF REPAIR OR WHICH MAY CAUSE DAMAGE TO THE NEW WORK. THE CONTRACTOR SHALL NOTIFY AND ALLOW SUFFICIENT TIME FOR THE OWNER AND ARCHITECT TO INSPECT THE CONDITION OF THE EXPOSED WORK PRIOR TO INSTALLING NEW CONSTRUCTION.
- 7. INFORMATION CONTAINED ON THESE DRAWINGS IS PROVIDED FOR THE CONVENIENCE OF THE GENERAL CONTRACTOR IN EXECUTING THE WORK. EVERY ATTEMPT HAS BEEN MADE TO PROVIDE COMPLETE AND ACCURATE REPRESENTATIONS OF SUCH CONDITIONS.
- ALL ITEMS ON PLANS, ELEVATIONS AND DETAILS FOR 8 NEW CONSTRUCTION SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION SHALL COMPLY WITH IBC SECTION 1612 AS IT RELATED TO FLOOD LOADS AND MATERIALS. WALL AND CEILINGS SHALL BE 5/8" TYPE X GYPSUM BOARD.
- 10. EXTERIOR PAINT COLORS TO MATCH EXISTING. PRIMER AND TWO COATS OF EXTERIOR LATEX PAINT.

## CODE REFERENCES

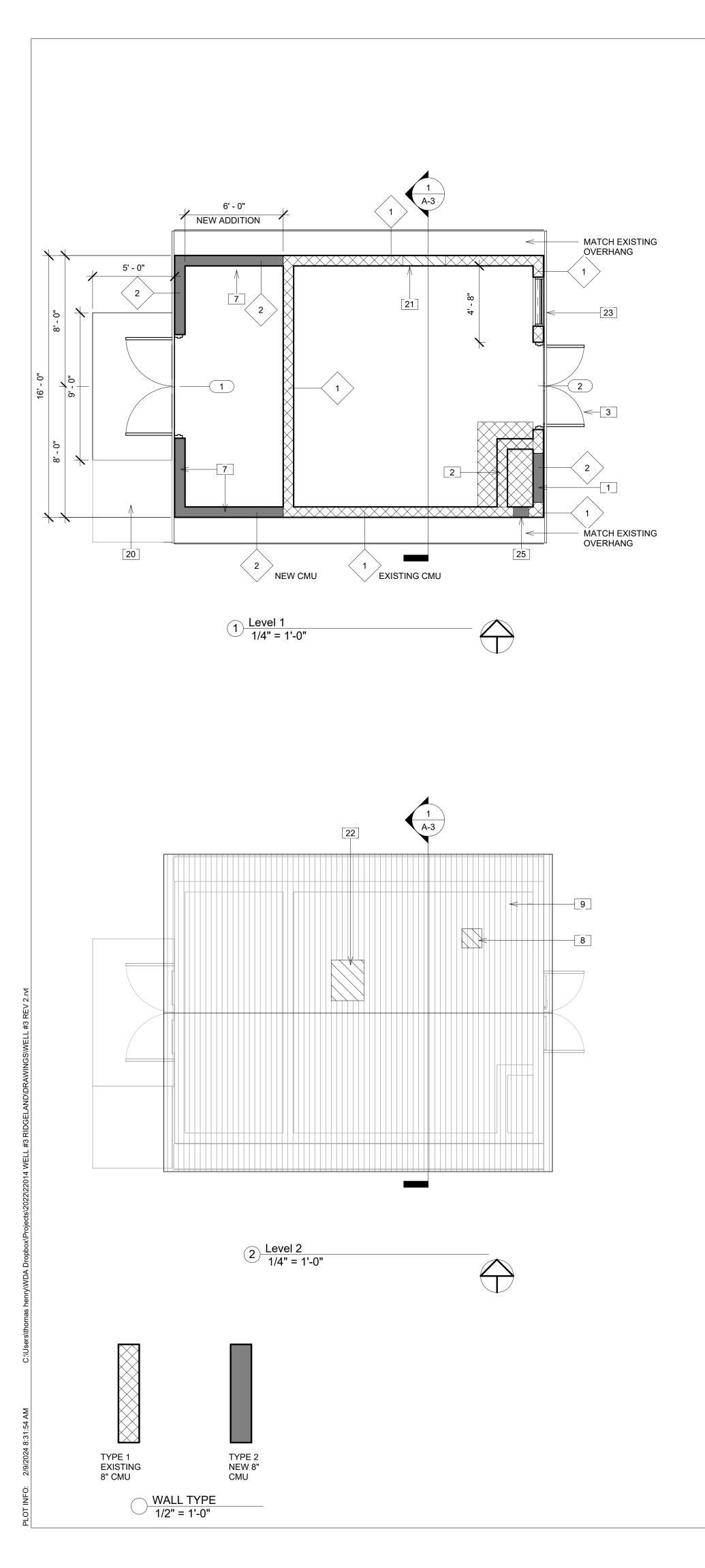
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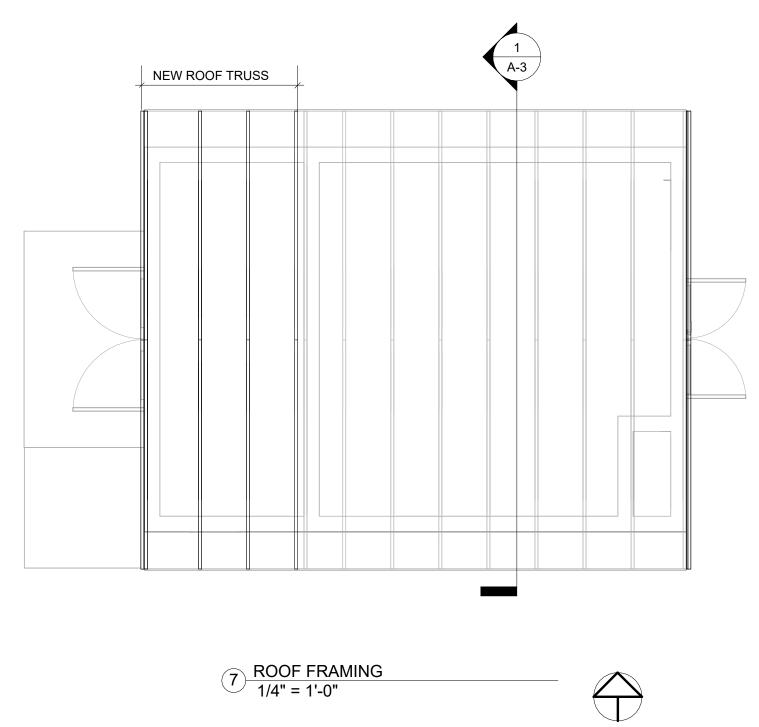
INTERNATIONAL BUILDING CODE (IBC): INTERNATIONAL MECHANICAL CODE: INTERNATIONAL PLUMBING CODE: INTERNATIONAL FUEL GAS CODE: INTERNATIONAL FIRE CODE: INTERNATIONAL ENERGY CODE: THE NATIONAL ELECTRICAL CODE: ICC/ANSI A117.1: ASCE 7 -10 ASCE 24 CLIMATE ZONE ALL ELEVATIONS SHOWN ARE:



2017	
ZONE	

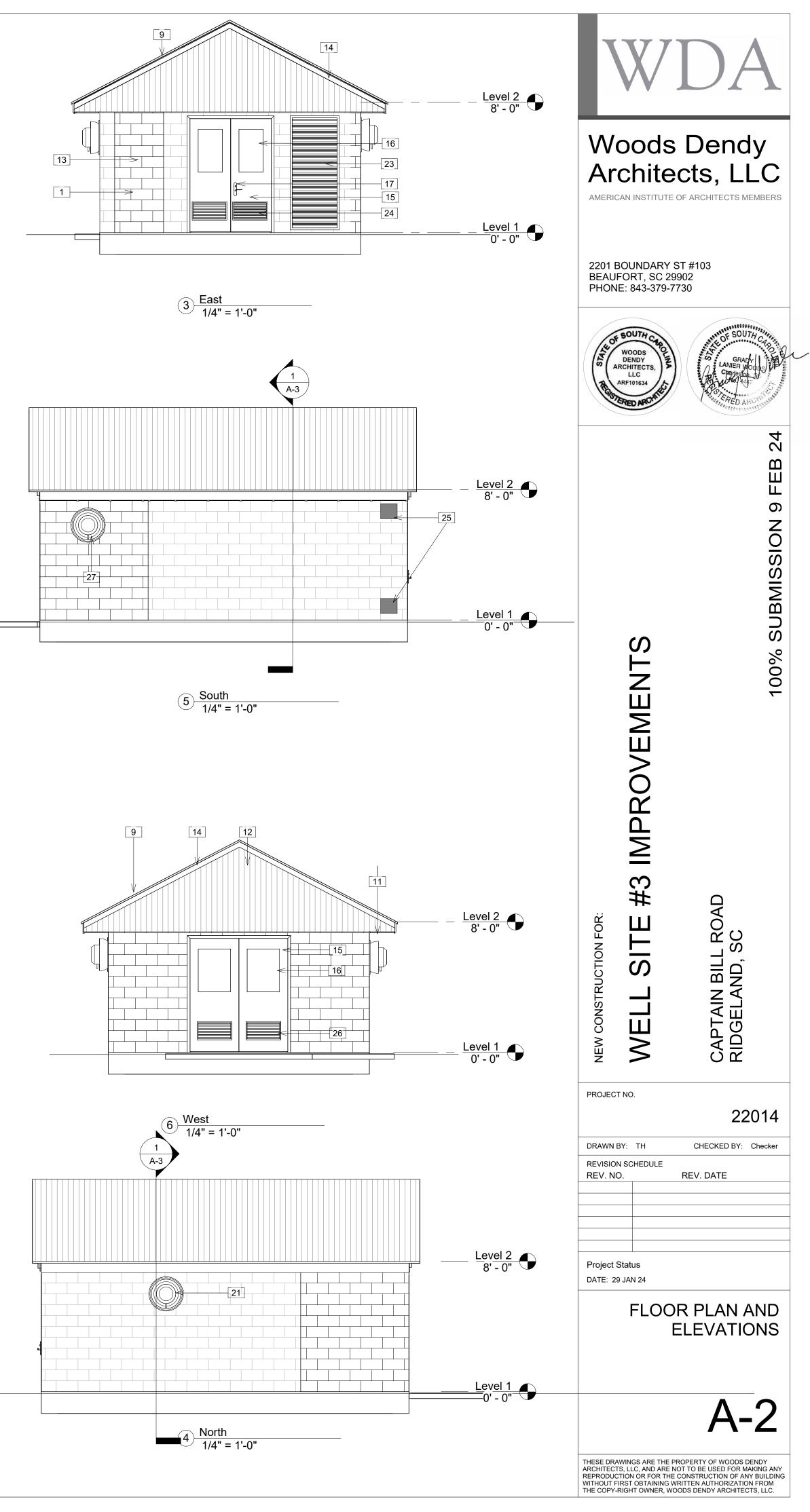
	Sheet List					
Sheet Number	Sheet Name					
A-1	COVER SHEET					
A-2	FLOOR PLAN AND					
	ELEVATIONS					
A-3	SECTIONS					
A-4	DOOR SCHEDULE AND					
	PHOTOS					
S100	GENERAL NOTES					
S101	FOUNDATION PLAN					
S201	SECTION AND DETAILS					

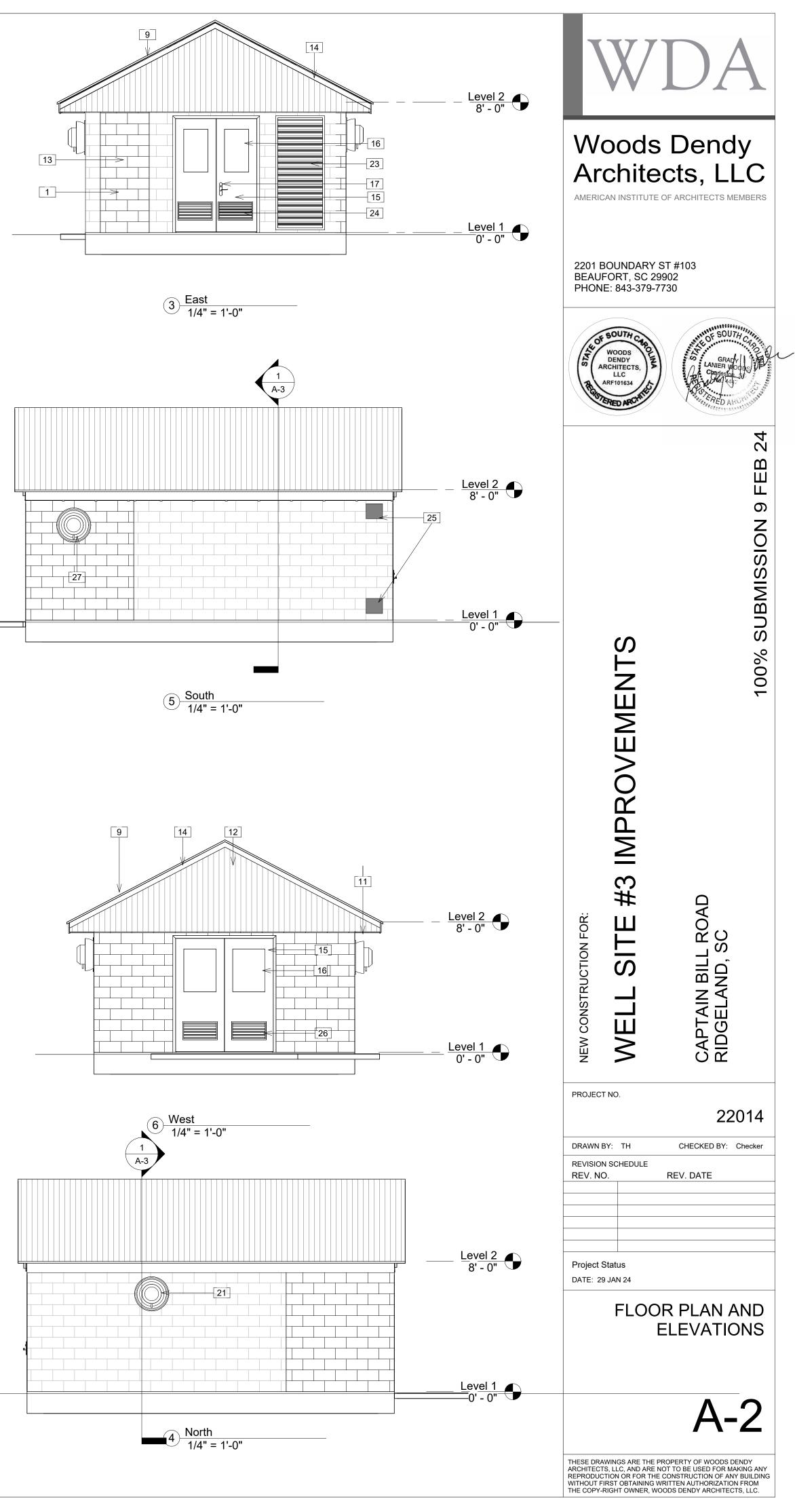


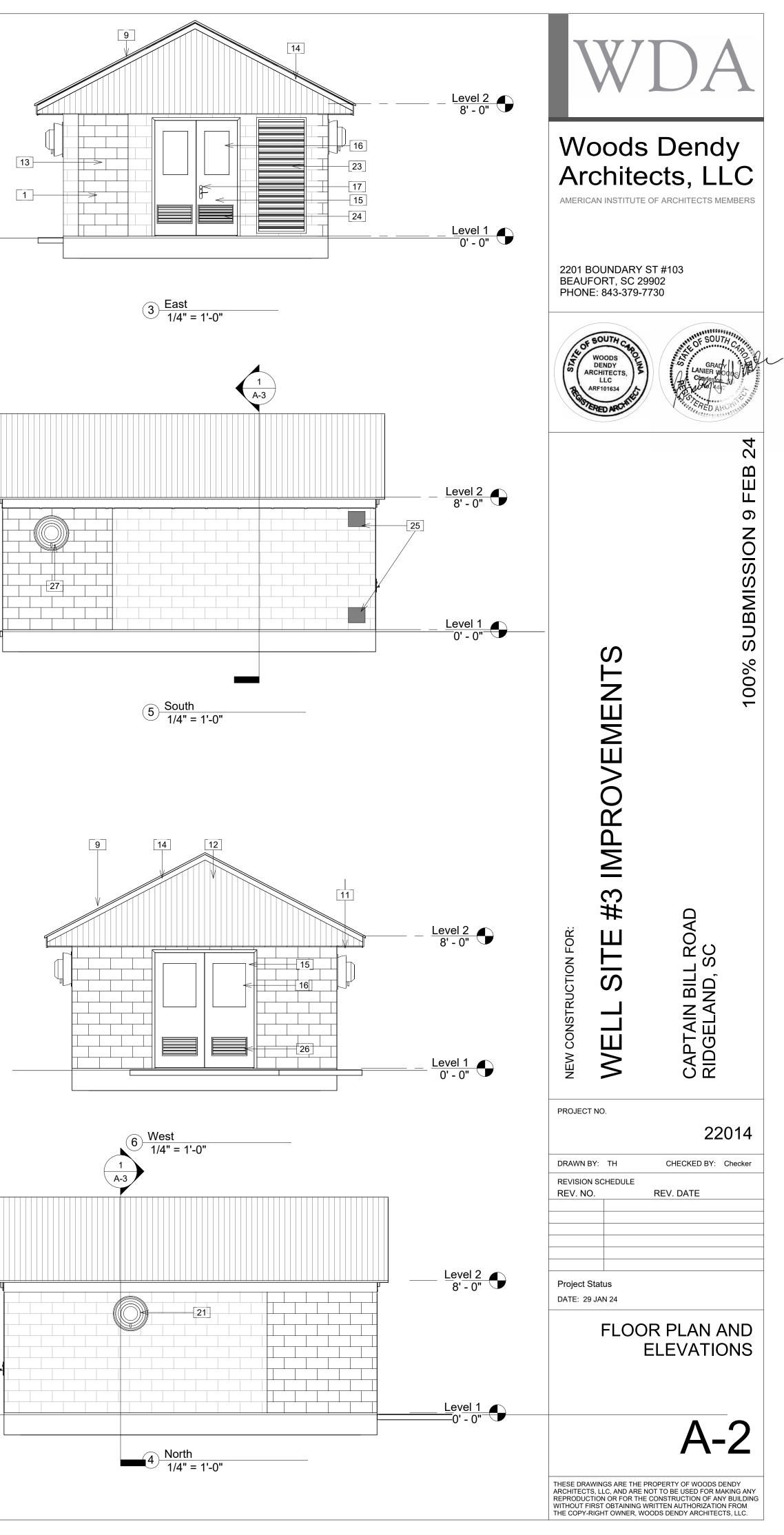


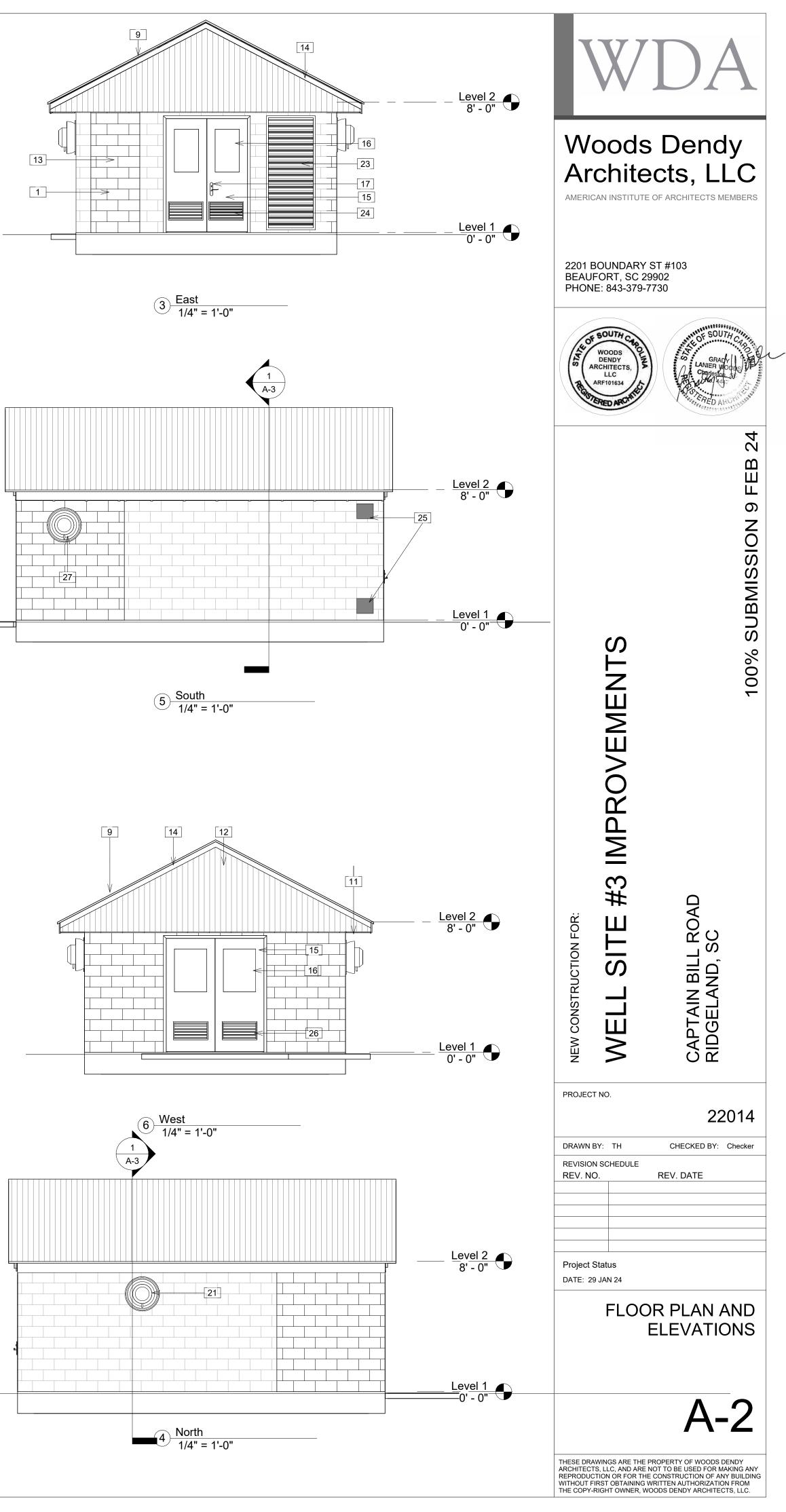
7 ROOF FRAMING 1/4" = 1'-0"

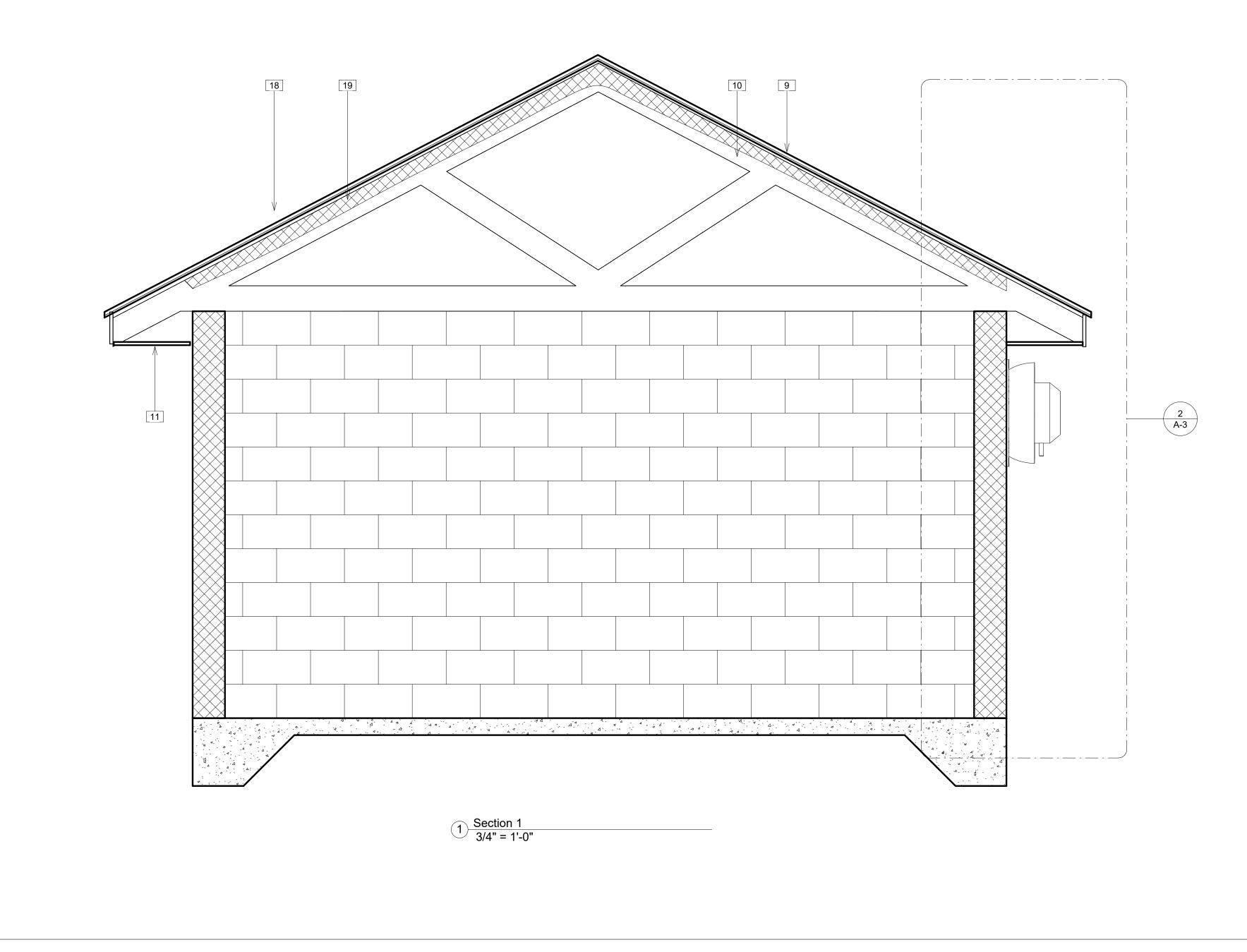
	KEYNOTE LEGEND
Key Value	Keynote Text
1	REMOVE EXISTING DOOR AND CLOSE OPENING TO MATCH EXISTING BUILDING
2	REMOVE INTERIOR CMU WALL AND PATCH SURFACES AND PAINT TO MATCH EXISTING
3	REMOVE AND REPLACE DOOR
7	NEW 8" CMU WALLS
8	REMOVE EXISTING ROOF VENTILATOR AND CLOSE OPENING
9	REMOVE AND REPLACE STANDING SEAM ROOFING INCLUSIVE OF ASPHALT SHINGLES BELOW. REMOVE FELT AND REPLACE WITH ICE AND WATERSHIELD MEMBRANE FOR ENTIRE ROOF.
10	ROOF TRUSS AS PER STRUCTURAL
11	NEW FASCIA AND SOFFIT TYPICAL
12	MATCH EXISTING GABLE SIDING FOR NEW CONSTRUCTION
13	NEW CMU INFILL
14	1 X 6 TRIM TO MATCH EXISTING
15	NEW CHEMICAL RESISTANCE FIBERGLAS DOOR OR APPROVED EQUAL. PROVIDE DOOR CLOSERS, SEALS, THRESHOLD, HEAD AND FOOT BOLT
16	HIGH IMPACT GLASS
17	SCHLAGE HARDWARE LOCK SET OR APPROVED EQUAL
18	VERIFY ROOF PITCH AND MATCH EXISTING
19	R-23 CLOSED CELL SPRAY FOAM INSULATION
20	EXISTING CONCRETE SPILLWAY TO BE REMOVED AND NEW CONCRETE SPILLWALL TO BE BUILT ON THE SIDESIDE OF BUILDING
21	EXISTING EXHAUST FAN OPENING 41" X 41" TO BE INFILLED TO A 18.5 X 18.5 OPENING FOR CUE WALL EXHAUST WITH BACKDRAFT DAMPER
22	EXISTING ROOF OPENING FOR REMOVAL OF TURBINE WELL PUMP TO REMAIN.
23	CUT OPENING TO RECEIVE 3' X 7' LOUVER. PROVIDE PRECAST LINTEL. LOUVER SIZE 36" X 84" RUSKIN LC6375D OR APPROVED EQUAL WITH INSECT SCREEN
24	DOOR LOUVERS FREE AREA OF .59FT <sup>2</sup>
25	REMOVE EXISTING INTAKE AND EXHAUST LOUVERS AND FILL IN OPENING
26	DOOR LOUVER WITH FREE AREA OF .75FT^2
27	CUE WALL EXHAUST FAN PROVIDED WITH FIBERGLASS BACK DRAFT DAMPER 15.5" X 15.5" OPENING

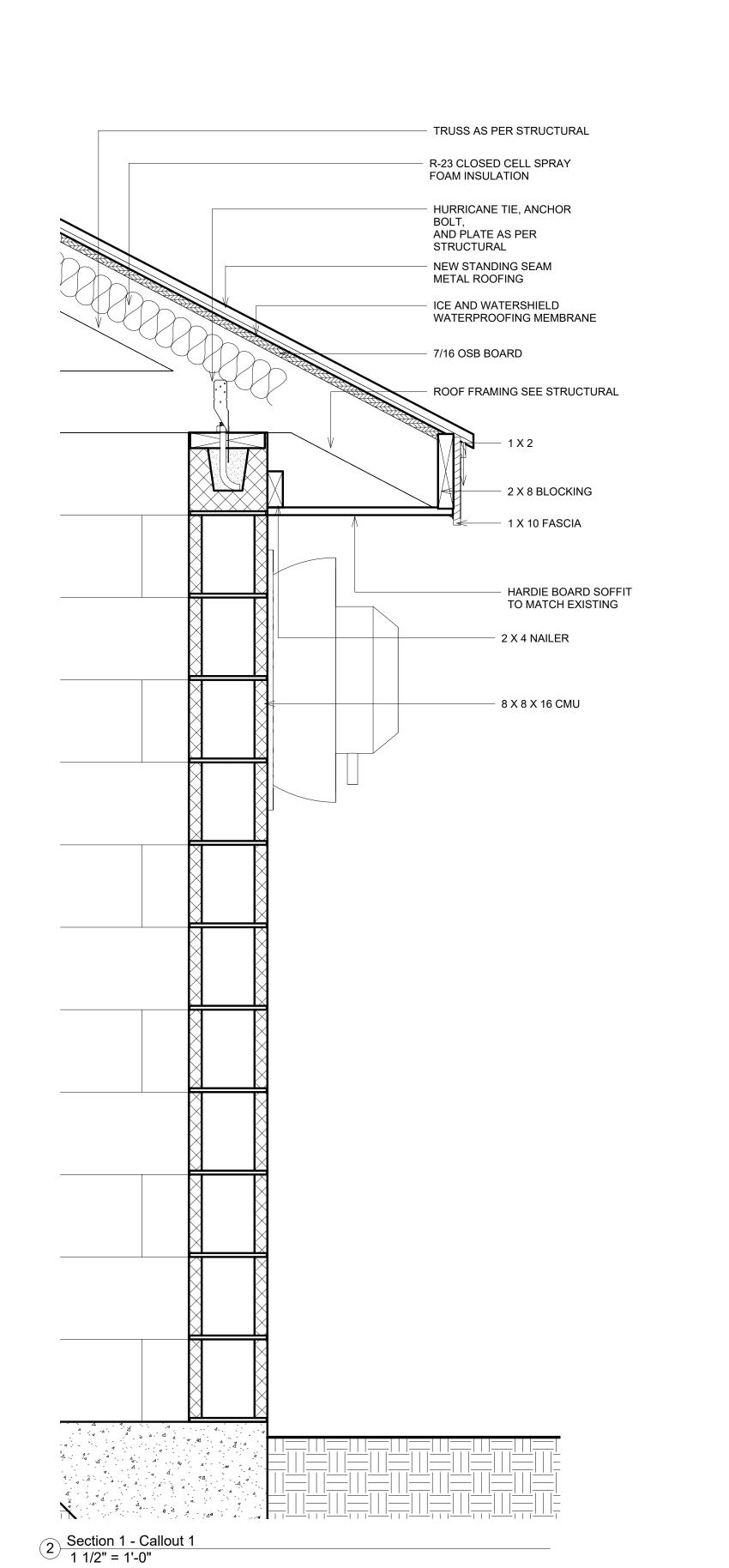




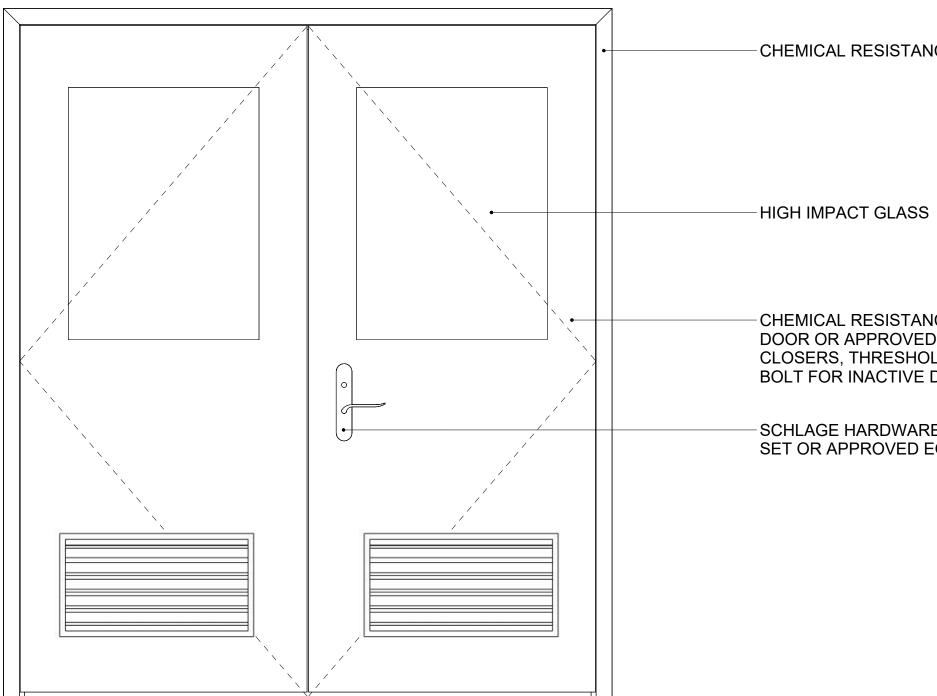


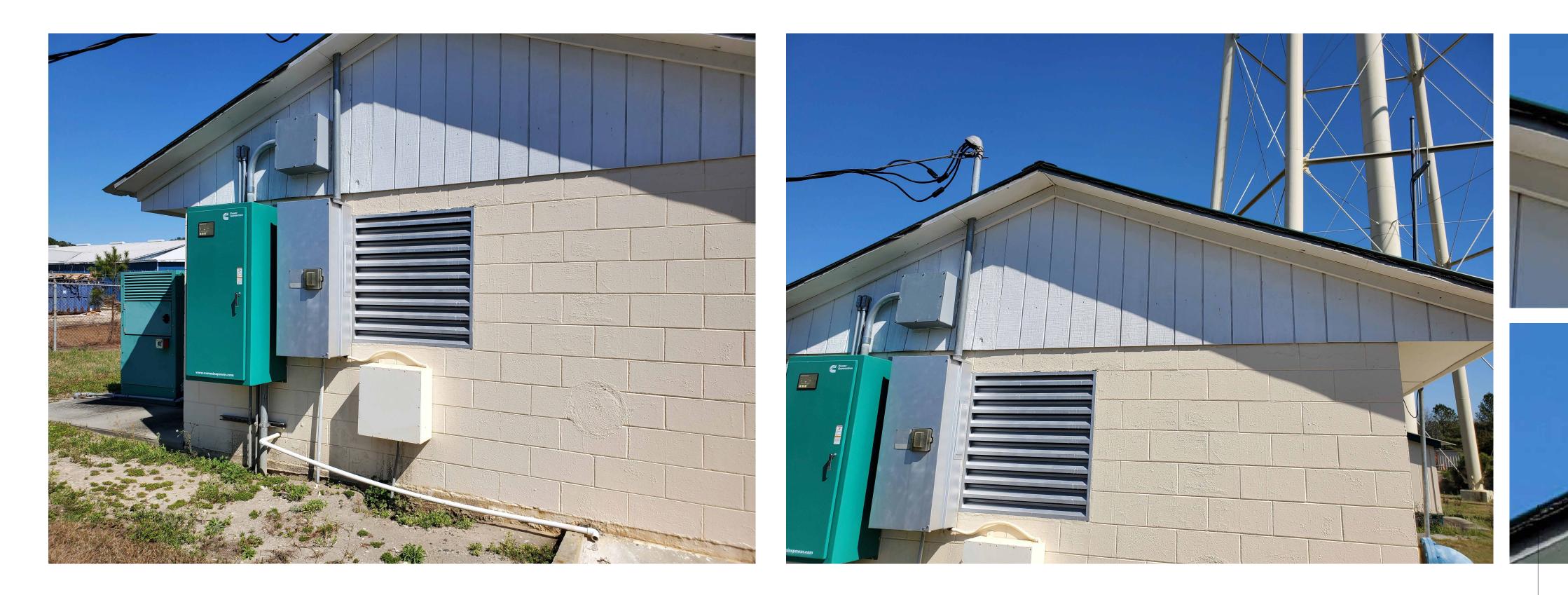






# Woods Dendy Architects, LLC AMERICAN INSTITUTE OF ARCHITECTS MEMBERS 2201 BOUNDARY ST #103 BEAUFORT, SC 29902 PHONE: 843-379-7730 DEND RCHITECT 24 FEB σ **100% SUBMISSION** #3 IMPROVEMENTS CAPTAIN BILL ROAD RIDGELAND, SC **JCTION FOR:** SITE NEW CONSTRU WELL PROJECT NO. 22014 DRAWN BY: TH CHECKED BY: Checker **REVISION SCHEDULE** REV. DATE REV. NO. Project Status DATE: 29 JAN 24 SECTIONS A-3 THESE DRAWINGS ARE THE PROPERTY OF WOODS DENDY ARCHITECTS, LLC, AND ARE NOT TO BE USED FOR MAKING ANY REPRODUCTION OR FOR THE CONSTRUCTION OF ANY BUILDING WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FROM THE COPY-RIGHT OWNER, WOODS DENDY ARCHITECTS, LLC.





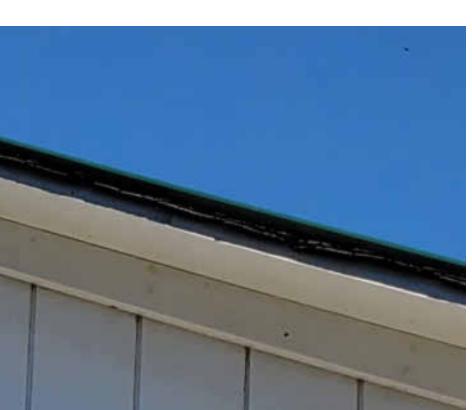
1 PHOTOS 3/64" = 1'-0"

#### - CHEMICAL RESISTANCE FRAME

Door Schedule								
Mark	Width	Height	Comments					
1	6' - 0"	7' - 0"						
2	5' - 0"	7' - 0"	FIELD VERIFY AND FIT TO OPENING					

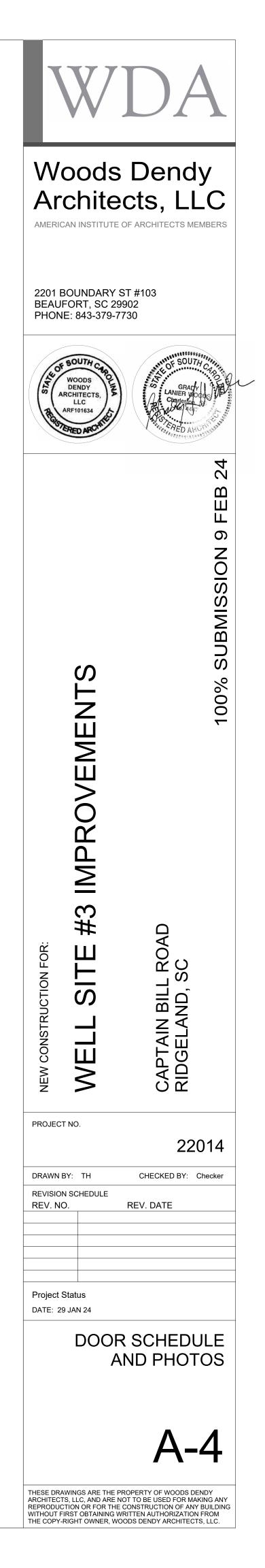
--- CHEMICAL RESISTANCE FIBERGLAS DOOR OR APPROVED EQUAL. PROVIDE DOOR CLOSERS, THRESHOLD, SEALS AND HEAD AND FOOT BOLT FOR INACTIVE DOOR.

- SCHLAGE HARDWARE LOCK SET OR APPROVED EQUAL





EVIDENCE OF ASPHALT SHINGLES. REMOVE STANDING SEAM METAL ROOFING AND ASPHALT SHINGLES DOWN TO SHEATHING. INSTALL ICE AND WATERSHIELD MEMBRANE AND REPLACE WITH NEW STANDING SEA,M METAL ROOFING



## ABBREVIATION LEGEND

טכ		
	Τ/	- TOP OR TOP OF
	FTG	- FOOTING
	SF	– STEP FOOTING (LOCATION)
	CONC	– CONCRETE
	WWM	– WELDED WIRE MESH
	CMU	– CONCRETE MASONRY UNIT ( CONCRETE BLOCK)
	WCJ	– MASONRY / CONCRETE WALL CONTROL JOINT
	STL	– STRUCTURAL STEEL OR STEEL
	O.C.	– ON CENTER (SPACING)
	PSI	– POUNDS PER SQUARE INCH (STRENGTH)
	TYP	– TYPICAL
	Х	– READ AS 'BY'
	CLR	– CLEAR
	SQ	– SQUARE
	DEG	– DEGREE OR DEGREES
	E.W.	- EACH WAY
	UNO	- UNLESS NOTED OTHERWISE
	TD	<ul> <li>TREATED, PRESSURE TREATED PER AWPA SPECS, GROUND CONTACT WITHIN 1000 YRS FOR WATER, MARINE EXPOSURE.</li> </ul>
	CONT	- CONTINUOUS
	W/	– WITH
	W/OUT	- WITH OUT
	A. BOLTS	- ANCHOR BOLTS OR BOLT
	0	– READ AS 'AT'
	PL	– PLATE
	REINF	REINFORCING
	SHTHG	– SHEATHING, GENERALLY PLYWOOD
	DIA	– DIAMETER

GEOTECHNICAL REPORTS: IF A SPECIFIC REPORT IS NOT ADDRESSED HEREIN THE PLANS HAVE BEEN DESIGNED BASED ON ASSUMPTIONS. IT IS THE SOLE RESPONSIBILITY OF THE OWNER TO RETAIN A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL PERFORM INVESTIGATIONS TO INSURE THAT THE SOIL CONDITIONS ARE AT LEAST THAT WHICH ARE REQUIRED HEREIN. ANY AND ALL FILL SHALL BE ENGINEERED FILL AND PLACED IN STRICT ADHERENCE WITH THE PROJECT GEOTECHNICAL ENGINEERS REQUIREMENTS. FILL CAN AND WILL INDUCE SETTLEMENTS. PLACING FILL WITHOUT THE DIRECTION OF A GEOTECHNICAL ENGINEER IS PROHIBITED. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES, LOOSE MEASURE. EACH LIFT SHALL BE COMPACTED TO WITHIN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PRIOR TO PROCEEDING WITH THE NEXT LIFT.

ALL SLABS ON GRADE, UNLESS NOTED OR REQUIRED OTHERWISE BY THE PROJECT GEOTECHNICAL ENGINEER, SHALL BE PLACED ON COMPACTED FILL OR SUBGRADE. ALL SLABS SHALL BE PLACED OVER MIN 10 MIL VAPOR BARRIER (VB). VB SHALL BE INSTALLED IN A SMOOTH CONDITION, LAP ENDS NOT LESS THAN 12 INCHES. REPAIR ANY AND ALL PUNCTURES PRIOR TO CONC. PLACEMENT. THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED SURVEYOR WHO SHALL VERIFY ALL SITE AND BUILDING ELEVATIONS. THE GENERAL CONTRACTOR SHALL INSURE THAT THE LOWEST HORIZONTAL STRUCTURAL MEMBER IS ABOVE ANY AND ALL FEDERAL. STATE AND LOCAL REQUIREMENTS FOR CLEARANCE AND FLOOD ZONE RELATED ISSUES.

SEE ARCH'L DRAWINGS FOR ISSUES RELATED TO HYDROSTATIC VENTING, OPEN SIZES AND LOCATIONS. WHERE NOT SHOWN IN ARCH'L DRWGS ALLOW FOR THE MOST STRINGENT AND COSTLY APPROACH IN BASE BID AND AWAIT FURTHER DIRECTION FROM ARCHITECT.

SEE THE ARCHITECTURAL DRAWINGS FOR ANY AND ALL DIMENSIONS AND CONDITIONS NOT NOTED HEREIN. WHERE DIMENSIONAL DIFFERENCES ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL GOVERN. THE CONTRACTOR SHALL COORDINATE ALL TOP OF BEAM, TOP OF CMU AND TOP OF STEEL ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.

THE GENERAL CONTRACTOR SHALL MAKE NO SUBSTITUTIONS FROM THOSE ITEMS SPECIFIED HEREIN WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT OR ENGINEER.

## GENERAL NOTES

1. Structural drawings shall be used in conjunction with architectural and mechanical drawings and drawings relating to other trades. Contractor shall be responsible for checking and coordinating dimensions, clearances, etc. with the work of other trades. In case of conflict between drawings, the more stringent requirement shall govern.

In case of conflict between the drawings, notes and specifications, the specifications shall govern. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.

4. Review all project documents prior to fabrication and start of construction. Report any discrepancies to the project Architect prior to proceeding with work. 5. It is the contractor's responsibility to protect existing facilities, structures and utility

lines from all damage during construction. 6. Coordinate structural and other drawings that are part of the contract documents for anchored, embedded or supported items which may affect the structural drawings. 7. All details and sections on the drawings are intended to be typical and shall be construed to apply to any similar situation elsewhere on the project except where a separate detail is shown. 8. Use of contract drawings reproduced in whole or any part in shop drawing shall not relieve the contractor nor subcontractors from their responsibility to accurately layout, coordinate, detail, fabricate and install a complete structure.

9. Review all shop drawings for conformance with the contract documents and for completeness and answer all contractor related questions. Stamp and initial all sheets as Approved prior to submitting shop drawings to Architect for review.

## FOUNDATION NOTES

1. Backfill and fill material shall be placed in thin successive layers, 8" loose measurement, and each layer shall be compacted to at least 95% of maximum laboratory density. 2. Backfill material shall consist of sand clay soil as directed and approved by the project geotechnical engineer. 3. Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer. 4. Center all footings under their respective columns or walls unless otherwise shown on plans. Maximum misplacement or eccentricity - 2" 5. Horizontal joints in footings will not be permitted.

6. Where vertical construction joints occur in continuous footings, provide a minimum continuous 2" x 4" keyway across joint for each 12" of depth. 7. Notify Architect if soil conditions are uncovered that prevent the required soil bearing pressure from

being obtained. B. Coordinate plumbing and foundation elevations to minimize interference. Where plumbing interferes with footing, step footing down as directed by engineer 9. Excavating under or near in-place footings/foundations which disturbs the compacted soil beneath the footings/foundations will not be permitted. 10. Reinforcing shall be supported on precast concrete pads or metal chairs.

## CONCRETE NOTES

1. Typical 28 day concrete compressive strength (f'c). f'c (psi) 3000

LOCATION: Slab On Grade Footings

3000

NOTE: All concrete shall be normal weight unless noted otherwise. 2. Reinforcing steel: ASTM A 615, grade 60. Minimum lap shall be 40 bar diameters or 24 inches, U.N.O. Welded wire fabric: ASTM A 185 or ASTM A 497. Lap all edges 1'-0" mesh minimum. 4. Concrete cover: Footings 3", slabs 1 1/2" (U.N.O.).

5. All footings shall rest either on undisturbed soil or a manually operated vibratory sled or tamper should be used to densify any soils in the bottom of the footing trenches loosened during the excavation operation.

6. Contractor is responsible for adequately protecting all excavation slopes.7. No backfilling against foundation walls shall be done until concrete has attained 75% of its 28

day strength. Provide temporary bracing for walls sustaining more than 3'-6'' of earth pressure. This bracing to remain until slabs on grade or floor framing supporting the wall have been poured and set. 8. All continuous horizontal reinforcing and vertical wall reinforcing shall be lapped according to lap splice and embedment requirements per ACI 318, latest edition. Reinforcement shall be securely held in place while placing concrete. If required, additional bars and stirrups shall be provided by the contractor to furnish support for bars.

15. For waterproofing details and locations, see architectural drawings. 16. Dowels shall match wall reinforcing.

13. Contractor shall make no deviations from design drawings without written approval of the Project Architect. 19. Structural concrete shall conform to ACI 301 and have the following slumps and aggregate requirements Ağgregate ASTM #57 Location Slump Max. Footings

Slabs 4"	1"	ASTM #57
All course granite shall be crushed granite. prcing steel shall be detailed, fabricated and instal manual, ACI—315 latest edition.		" ACI 318 and

21. Not used.

22. Shop drawings for placement shall be submitted for review prior to rebar fabrication unless approved otherwise by project Architect 23. No reinforcing bars shall be cut to accommodate the installation of anchors, embeds or other items. 24. Use the structural drawings including revisions and addenda in conjunction with reviewed shop drawings for placement of reinforcing.

25. At changes in direction of concrete walls, beams and strip footings, provide corner bars of same size and quantity (U.N.O.) as horizontal steel. Refer to typical detail. 26. Place concrete per ACI 304. Use internal mechanical vibration for all concrete. Limit maximum free fall drop of concrete to 6'-0" for #57 aggregate and 8'-0" for #8 aggregate. All precautions should be taken to avoid segregation of concrete during placement. 27. Saw cut all slabs not less than 1/4 slab depth. Cut shall be made as soon as possible without dislodging the course aggregate, same day as placement. ACI 302

MASONRY NOTES

. Masonry construction shall conform to ACI "Building Code Requirements for Masonry Structures" (ACI/ASCE 530) and "Specifications for Masonry Structures" (ACI/ASCE 530.1) except as amended below. . Obtain copy of masonry code and specifications for reference at the job site.

4. Use type "S" mortar with minimum compressive strength of 1800 psi. 5. Masonry units shall conform to ASTM C90 with a minimum compressive strength of 1900 psi on net section, to provide net area compressive strength of masonry (F'm) of 1500 psi. Provide filled cells as shown on plans. In addition, provide filled cells adjacent to all openings, at

anchorage of connections. Provide full mortar bedding around all filled cells with vertical reinforcing. 8. Reinforcing for filled cells shall conform to ASTM A615, Grade 60. Provide the following lap splices for reinforcing: #4 Bars 24" #5 Bars 30"

9. Reinforce wall with ladder type reinforcement in bed joints at 16" o.c. measured vertically. Lap splice all horizontal wall reinforcing 6". Provide prefabricated "tee" or corner sections at all intersecting walls. 10. Refer to typical wall sections for maximum construction height of masonry walls. Provide clean—out holes at base of filled cell when the concrete pour exceeds 5 feet in height. 11. Concrete for filled cells shall be vibrated during placement using a "pencil" type vibrator.

12. The masonry walls are not designed to withstand temporary construction loads. It is the contractor's responsibility at all times to maintain wall stability during the construction phase of this project. 14. The use of solid load bearing masonry units is prohibited on this project.

15. Masonry wall construction requires expansion/contraction joints. Locate these joints as directed by the project Architect not more than 40 feet on center. Avoid locations near windows and doors or other geometry that would lend to the formation of epxansion cracks.

16. All lintels over masonry openings shall be Cast-Crete Lintels. Cast-Crete lintels are available from General Materials, Inc.

17. Provide seismically rated brick ties for all brick veneer in accordance with manf'r install instructions.

STRUCTURAL STEEL NOTES

I. Structural Steel materials shall conform to the following ASTM specification (U.N.O.):

ASTM A36, Fy=36 ksi Angles, plates, misc. steel ASTM A500. Grade B ASTM A449

Anchor Bolts 2. Provide temporary bracing or guys to provide lateral support until permanent lateral bracing is installed. 3. The contractor shall coordinate the bottom of base plate elevation with the top of concrete and masonry elevation. In case of conflict, the contractor shall make allowance in his bid for the more stringent requirement.

4. All steel details and connections shall be in accordance with the requirement of the AISC SPECIFICATIONS (Latest Edition), including all supplements and revisions. 5. Shop connections not specifically detailed on the drawings may be welded or bolted. Field connections

not specifically detailed on the drawing shall be bolted. 6. Fabrication and erection of structural steel shall conform to the AISC "Manual of Steel Construction," and the AISC "Specification for Structural Steel Buildings," latest Editions.

7. All bolts cast in concrete shall conform to ASTM A-36 or A-307. 8. Beams shall be supported on columns by tab plates welded through the center line of the column

unless specifically shown otherwise herein. 9. All beams shall be punched for two rows of bolts for the attachment of wood blocking. Blocking shall be placed along the top flange, along the web and along the bottom flange unless spedified otherwise. Bolts shall be two rows at 16" o.c. staggred.

## TIMBER FRAMING NOTES

of: (fb=1300 psi, Ft=675 psi, Fc=1200 psi). G90 finishes. per row and per layer or ply.

prior authorization from engineer

11. Provide simpson CS16 X 24" straps across all ridges and valleys at 32" o.c. Install to prevent against uplift forces (i.e. across tops of ridges), or collar ties at the same spacing. 12. Solid blocking that matches the depth of the floor joists, shall be installed between joists along all interior and exterior walls. Additional blocking shall be installed between joists at 1/3 points for 2x joist framing. 14. All walls supporting two floors and a roof shall be 2x6's at 16" o.c., 2x4's at 8" o.c. or 3x4's at 12" o.c. 15. The GC shall anticipate and provide furing strips or blocking as may be required to provide a smooth surface for the application of sheetrock. This requirement primarily occurs at, but is not limited to, vaulted ceilings and other such special conditions. 16. The framing and foundations shown herein are based on normal carpet and vinyl floor finishes, normal weight

proceeding.

edition of the Wood Framed Construction Manual.

# DESIGN CRITERIA

DESIGN BASED ON THE 2018 IBC

DEAD LOADINGS ACTUAL SELF WEIGHT DESIGN LOADS & INFOR BASIC WIND SPEED WIND EXPOSURE CAT. SEISMIC DESIGN INFORM RISK CATEGORY Sds Sdl SITE CLASS SEISMIC DESIGN CATEGO SEISMIC FORCE RESIST. DESIGN BASE SHEAR ANALYSIS PROCEDURE FLOOR LL FLOOR DL ROOF LL ROOF DL STAIRS LL GROUND SNOW LOAD

# SPECIAL INSPECTIONS

1. SUBMIT CONCRETE MIX DESIGN TO ENGINEER FOR REVIEW PRIOR TO THE START OF WORK. 2. INDEPENDENT THIRD PARTY INSPECTORS TO BE PRESENT DURING CMU BLOCK GROUTING PROCESS AND CONFIRM PROPER AND COMPLETE GROUTING OF REINFORCED CELLS. 3. THIRD PARTY INSPECTOR TO VISUALLY VERIFY UPLIFT CONNECTOR SIZE, LOCATION AND ATTACHMENT.

1. All timber construction shall be in accordance with AITC specifications and requirements. 2. All timber framing, unless noted otherwise, shall be not less than #2 SYP or SPF kiln dried with minimum properties

3. All engineered timber shall have minimum properties of: (Fb=2800 psi, Ft=2600 psi, Fc=2400 psi). 4. Any and all timbers exposed to the earth, weather or in contact with concrete or masonry components or withing eight (8) inches of exposed grade shall be treated in accordance with AWPA standards. All connectors shall be by the simpson company unless approved otherwise by the project Architect,

6. All floor/roof bracing, blocking and connections shall be by the truss or Engineered component manufacturer. 7. All multiple ply girders shall be glued and nailed together with three rows of 16d nails at 8" o.c.

8. Provide a double joist below all parallel walls not shown otherwise. Provide a double joist adjacent to all changes in span to minimize differential settlement. 9. Layout all plumbing line and fixture locations and space joists to avoid cutting of joists. Where a joist must

be cut provide an additional joist on each side of the cut joist, as close as possible. If cut joists supports more than starndard floor loadings notify engineer for review. 10. Support all joists and beams on joist and beam hangers. Nailers shall not be permitted without

cabinets and counter tops. If heavier materials are used notify engineer and await framing modifications prior to

17. Where roof trusses are used, provide uplift connectors with uplift ratings in excess of the uplift reactions listed within the roof truss shop drawings. Contact engineer for specific directions if required.

18. Top plates, drag struts, shall be nailed together with two rows of 16d nails at 12" o.c. staggered. 19. Bottom plate splices shall have attachments on either side. Where the plate is attached to concrete you can provide 1/2" dia exp'n bolt with 12" ea. side of ea. splice, or you may provide two powder driven fasteners within 8" ea. side of ea. splice. Plates attached to timber framing shall have two 16d nails driven into the supporting framing within 6" ea. side of ea. splice.

20. Provide min  $3" \times 3" \times 1/4"$  square plate washers between TD bottom wall plates and the nut for anchor bolts. 21. Steel beams and columns shall not bear on timber framing. Provide embeded weld plates and steel columns bearing directly on concrete or masonry as necessary for proper support

22. All timber framing, unless addressed otherwise herein, shall be installed in accordance with the current

MATION	
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DRY	.23 D D
SYSTEM	LT. FRAMEWALL/SHEAR PANELS 10,000 LBS SIMPLE STATIC
	100 PSF 25 PSF 20 PSF 20 PSF 100 PSF 5 PSF

Southern Consulting & Engineering, Inc. Structural Engineering North Charleston, SC Bus(843) 718-2525 Fax (843) 718-2776 www.SCEstructure.com I John of Kidgeland North Charleston Southern No. co3355 Wangeland No. co3355 Wangeland Southern No. co3355 Wangeland Conth No. co3355 Wangeland No. co355 Wangeland No. co3355 Wangeland No. co3355 Wangeland No. co3355 Wangeland No. co3355 Wangeland No. co3355 Wangeland No. co3355 Wangeland No. co355 Wangeland No. co355	THE USE OF THESE DRAWINGS IS NOT WITHOUT LIMITATION. THESE DRAWINGS ARE PROVIDED IN ACCORDANCE WITH OUR STANDARD "TERMS OF USE." A COPY OF THESE "TERMS OF USE." IS AVAILABLE ON OUR WEBSITE AT WWW.SCI-ENGNG.COM. USE OF THESE DRAWINGS SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS BY THE CLIENT, PROJECT ARCHITECT, PROJECT OWNER, CONTRACTOR OR ANY OTHER PARTY WHO MAY HAVE AN INTEREST IN OR THE NEED TO USE THESE DRAWINGS. THESE DRAWINGS MAY NOT BE SOLD OR TRANSFERED IN OWNERSHIP OR USAGE WITHOUT WRITTEN AUTHORIZATION FROM SOUTHERN CONSULTING
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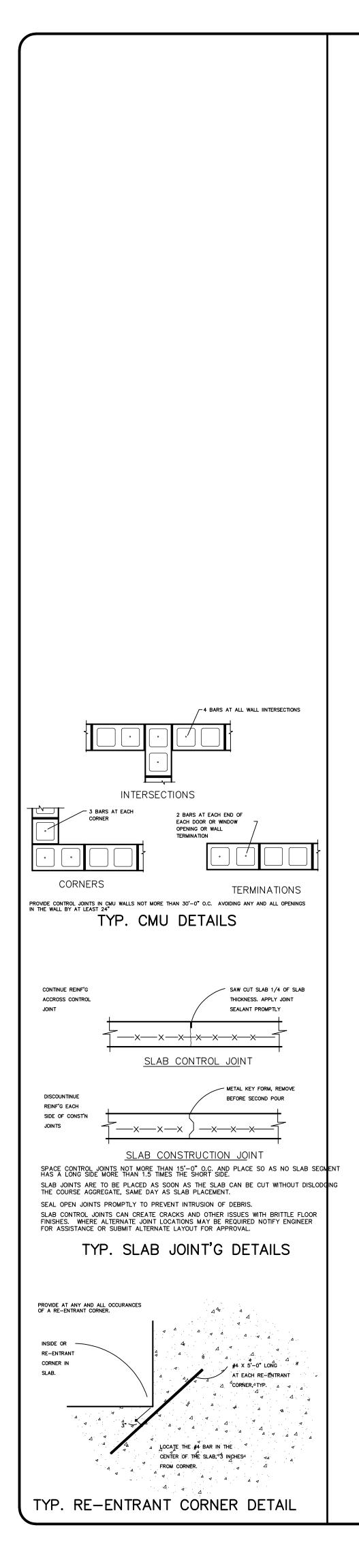
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SEE PLAN

JOB NO.

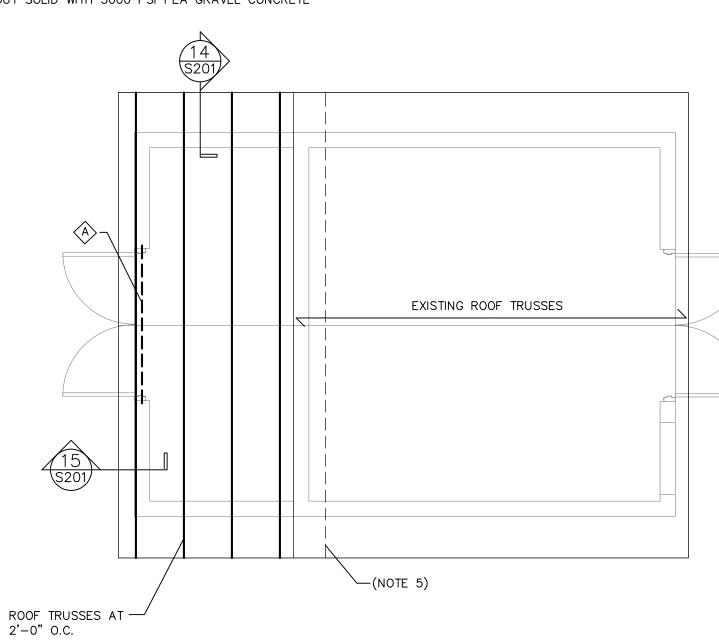
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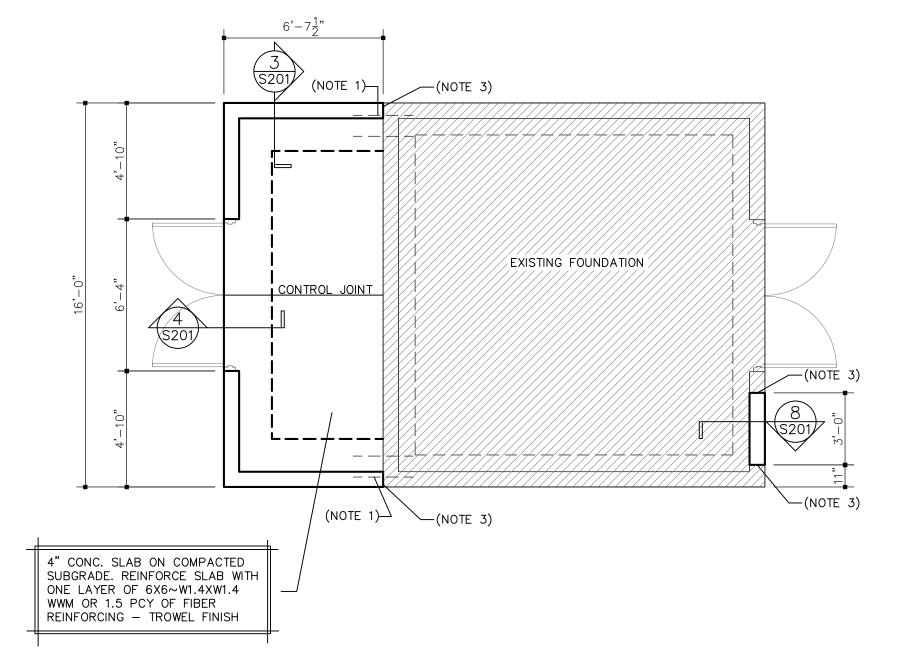
CMU LINTEL SCHEDULE A 8"X8" CMU LINTEL WITH (2)#5'S IN BOTTOM. GROUT SOLID WITH 3000 PSI PEA GRAVEL CONCRETE

2'-0" O.C.





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



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

SEE ARCH'L DRAWINGS FOR DIMENSIONS AND CONDITIONS NOT SHOWN HEREIN. TOP OF FOOTINGS SHALL BE NOT LESS THAN 8" BELOW FINISHED GRADE

FOOTINGS AND SLABS SHALL NOT BE PLACED ON UNCONTROLLED FILL. PLACEMENT AND USE OF COMPACTED FILL, IN EXCESS OF 12" SHALL REQUIRE THE INVOLVEMENT AND BE PLACED UNDER THE SUPERVISION OF A QUALIFIED GEOTECHNICAL ENGINEER. MASONRY HEIGHT ABOVE GRADE SHALL NOT EXCEED 8'-0" WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER.

NO SOILS REPORT OR SOILS INVESTIGATION HAS BEEN PERFORMED ON THIS SITE. THIS FOUNDATION DESIGN IS BASED ON ASSUMED SOIL CONDITIONS AND AN ASSUMED SOIL CAPACITY OF 2000 PSF. IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE SOIL CONDITIONS ARE ADEQUATE AND THE SITE HAS BEEN PROPERLY PREPARED PRIOR TO THE START OF WORK.

# FOUNDATION PLAN

THE GC SHALL REVIEW AND APPROVE ALL DIMENSIONS SHOWN HEREIN PRIOR TO THE START OF WORK. NOTIFY ENGINEER OF ANY DIMENSION OR CONDITION FOUND CONTRARY TO THAT SHOWN WITHIN THE ARCH'L DRAWINGS.

DRAWING NOTES (NOTE X)

- (1) DRILL AND EPOXY (2)#4'S X 2'-6" NOT LESS THAN 6" INTO FOOTING WHERE NEW ABUTS EXISTING
- (2) EXTEND CMU LINTEL NOT LESS THAN 8" ONTO ADJACENT CMU. TOOTH INTO EXISTING AS REGUIRED.
- (3) PROVIDE A VERTICAL CMU CONTROL JOINT BETWEEN NEW AND EXISTING CMU.
- (4) NOT USED
- (5) EXTEND NEW ROOF SHEATHING 16" BEYOND EDGE OF NEW CONSTRUCTION. NEW SHEATHING TO FLUSH WITH TOP OF EXISTING. ADD BLOCKING AS REQUIRED TO SUPPORT EDGE OF NEW AND EXISTING SHEATHING



DATE February 19, 2024 SCALE SEE PLAN JOB NO. 23585–0 SHEET
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		19/32" OSB ROOF SHEATHIN WITH .8 DIAMETER SERRATED
		O.C., 4" O.C. AT SHEET EDG
		SOFFIT - SPAN
		(1) INT. NAILING SEE ARCH STRIP REQ'D FOR FOR EAVE VINYL SOFFIT SPAN > 12"
		VINYL SOFFIT SPAN > 12"
		I VINYL SOFFIT ATTACHMENT PER
		VINYL SOFFIT ATTACHMENT PER PLYWOOD SOFFITS ATTACHED W 2.5X.131" GUN NAILS AT 6" 0.4
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