BEAUFORT COUNTY ADMINISTRATION BUILDING
NEW GENERATOR AND SCREEN WALL
100 RIBAUT ROAD
BEAUFORT, SOUTH CAROLINA, 29902

SCOPE OF WORK:

A. IN GENERAL, THE PROJECT CONSISTS OF INSTALLATION OF A NEW DIESEL POWERED GENERATOR SERVING THE EXISTING ADMINISTRATION BUILDING AT THE BEAUFORT COUNTY GOVERNMENT COMPLEX ON RIBAUT ROAD IN BEAUFORT, SOUTH CAROLINA

B. GENERAL CONSTRUCTION WORK INCLUDES GRADING, CONSTRUCTION OF A REINFORCED CONCRETE PAD AND CONSTRUCTION OF A MASONRY SCREEN WALL WITH GATE

C. THE SCREEN WALL UTILIZES REINFORCED CONCRETE MASONRY UNITS (CMU) WITH AN EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) ON THE EXTERIOR AND MASONRY SEALER ON THE INTERIOR AND METAL GATES HUNG FROM CONCRETE FILLED STEEL PIPES

D. THE SCREEN WALL WILL BEAR ON REINFORCED CONCRETE STRIP FOOTINGS

E. THE GENERATOR PAD UTILIZES 4,000 PSI REINFORCED CONCRETE BEARING ON A #57 STONE BASE

F. WORK INCLUDES LANDSCAPING AND SOD AT THE BASE OF THE GENERATOR SCREEN WALL

G. ELECTRICAL WORK INCLUDES INSTALLATION OF THE NEW GENERATOR WITH AN AUTOMATIC TRANSFER SWITCH AND ELECTRICAL CONDUIT AND WIRE CONNECTING THE GENERATOR TO THE EXISTING PANELS IN THE ADMINISTRATION BUILDING

H. ALL WORK WILL OCCUR WHILE THE EXISTING ADMINISTRATION BUILDING REMAINS OCCUPIED AND FULLY OPERATIONAL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER TO SCHEDULE ANY ELECTRICAL SHUTDOWN TO OCCUR AFTER HOURS

I. MAINTAIN ALL EXISTING ACCESSIBLE AND PEDESTRIAN SIDEWALKS FREE, CLEAR, AND UNOBSTRUCTED AT ALL TIMES DURING CONSTRUCTION

DESIGN TEAM

ARCHITECT

BEAUFORT DESIGN BUILD, LLC.
2 FIRE STATION LANE
SEABROOK, SC, 29940
P. 843-466-3664

ELECTRICAL ENGINEER

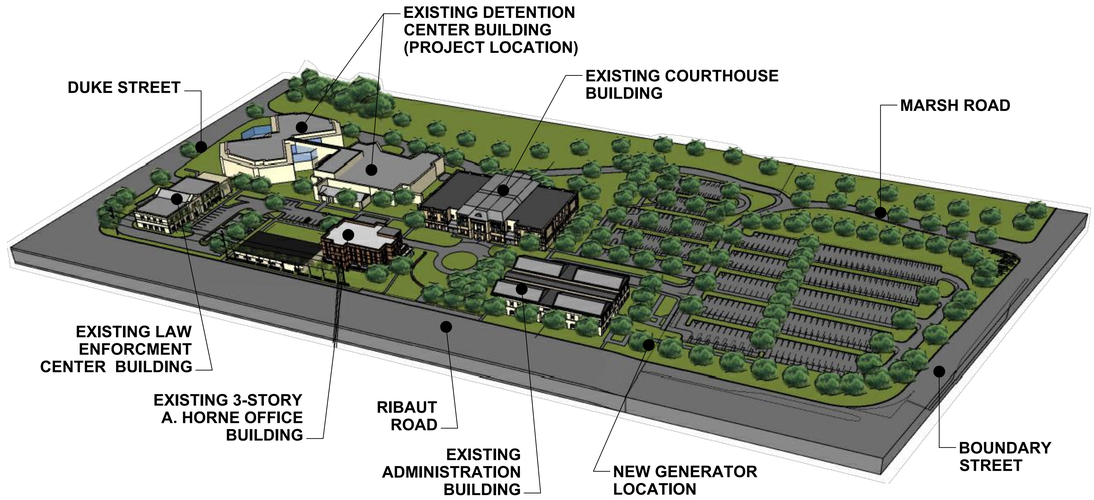
CDDC, LLC.
PO BOX 2869
BLUFFTON, SC, 29910
P. 843-384-4731

NOTE:
CDDC, LLC IS PROVIDING ELECTRICAL ENGINEERING UNDER A SEPARATE CONTRACT WITH BEAUFORT COUNTY



LOCATION MAP

SCAN FOR DIRECTIONS TO PROJECT SITE



MEP ENGINEERING SERVICES ARE CONTRACTED DIRECTLY BY THE OWNER. THE OWNER SHALL MAINTAIN DIRECT CONTRACTUAL RESPONSIBILITY WITH THE MEP ENGINEER. THE ARCHITECT SHALL COORDINATE WITH THE OWNER'S MEP ENGINEER AS REQUIRED FOR THE PROJECT.

SHEET INDEX:

GENERAL

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ARCHITECTURAL

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A-301	GENERATOR ENCLOSURE WALL SECTIONS AND DETAILS
A-302	EXISTING BUILDING SECTIONS AT ELECTRICAL ROOM

ELECTRICAL

E001
E002
E100
E200

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ARCHITECT / ENGINEER'S SEAL

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100 RIBAUT ROAD,
BEAUFORT, SC 29902

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DRAWN	RAC
CHECKED	DCS
APPROVED	DCS

COVER SHEET, SHEET INDEX AND SCOPE OF WORK

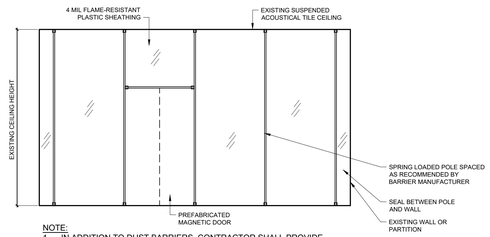
G-101



SIGNS ARE THE MINIMUM THAT ARE TO BE POSTED AT TEMPORARY BARRICADES AND ACCESS POINTS TO CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTRICTION OF ACCESS TO CONSTRUCTION AREAS AND COMPLIANCE WITH THE APPLICABLE OSHA REQUIREMENTS

D5 TEMPORARY DUST BARRIER

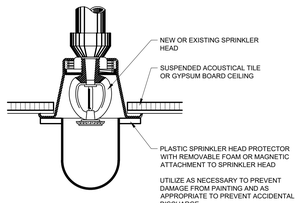
NOT TO SCALE



NOTE:
1. IN ADDITION TO DUST BARRIERS, CONTRACTOR SHALL PROVIDE CONSTRUCTION WALK-OFF (TACKY) MAT AT ALL CONSTRUCTION ENTRANCE AND EXIT POINTS. REPLACE MATS AS OFTEN AS NECESSARY TO CONTROL THE SPREAD OF DUST AND DEBRIS

C5 TEMPORARY DUST BARRIER

NOT TO SCALE



A5 EXISTING FIRE SPRINKLER HEAD PROTECTION

NOT TO SCALE

COORDINATE TEMPORARY BARRICADES AND PROTECTIONS WITH EXISTING CONDITIONS AND REQUIREMENTS FOR ELECTRICAL WORK ABOVE OFFICES, CORRIDORS, ETC. AND IN THE EXISTING ELECTRICAL ROOM
COORDINATE REQUIREMENTS WITH OWNER

ABBREVIATIONS

#	POUND OR NUMBER
@	AT
&	AND
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
ATC	ACOUSTICAL TILE CEILING
BFRT	BEAUFORT
BOCR	BACK OF CURB RADIUS
BOT	BOTTOM
BTM	BOTTOM
BYND	BEYOND
CJ	CONTROL JOINT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSIBLE
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
DEMO	DEMOLISH
DIM	DIMENSION
DN	DOWN
DP	DESIGN PRESSURE
DR	DOOR
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EX	EXISTING OR EXTERIOR
EXT	EXTERIOR
FIN	FINISH OR FINISHED
FL	FLOOR
FP	FIRE PROTECTION
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
GYP	GYPSUM WALL BOARD
HCW	HOLLOW CORE WOOD (DOOR)
HP	HIGH POINT
HR	HOUR
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
LAM	LAMINATE
LF	LINEAR FOOT OR LINEAR FEET
MFR	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OC	ON CENTER
OSB	ORIENTED STRAND BOARD
OSHA	OCCUPATIONAL SAFETY ND HEALTH ADMINISTRATION
PSF	POUND(S) PER SQUARE FOOT
RBR	RUBBER
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SMACNA	SHEET METAL and AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SCDHEC	SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SCOSE	SOUTH CAROLINA OFFICE OF STATE ENGINEER
SF	SQUARE FOOT OR SQUARE FEET
UL	UNDERWRITERS LABORATORIES
VIF	VERIFY IN FIELD
FFE	FINISH(ED) FLOOR ELEVATION

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE CARRIED OUT ACCORDING TO GOOD CONSTRUCTION PRACTICES
2. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS
   - 2.1. BUILDING: 2021 INTERNATIONAL BUILDING CODE
   - 2.2. ELECTRICAL: 2020 NATIONAL ELECTRICAL CODE
   - 2.3. FIRE CODE: 2021 INTERNATIONAL FIRE CODE
   - 2.4. NATIONAL FIRE PROTECTION ASSOCIATION: NFPA 13
   - 2.5. ICC A11.7-2017 AND THE AMERICAN WITH DISABILITIES ACT (ADA)
   - 2.6. SOUTH CAROLINA STATE FIRE MARSHAL RULES, REGULATIONS, AND POLICIES
3. ALL WORK SHALL BE UNDERTAKEN AND MANAGED IN ACCORDANCE WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL LIFE SAFETY ELEMENTS DURING CONSTRUCTION. TO THE EXTENT REQUIRED BY DEMOLITION, CUTTING AND PATCHING AND CONSTRUCTION ACTIVITIES, MAINTAIN AND PROTECT TO EXIT SIGNAGE, FIRE EXTINGUISHERS AND FIRE SPRINKLER SYSTEMS AS NECESSARY TO SATISFY LOCAL, STATE AND FEDERAL STANDARDS, CODES AND GUIDELINES
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES
6. GENERAL CONTRACTOR SHALL REPORT, TO THE ARCHITECT, ANY AND ALL DISCREPANCIES REGARDING EXISTING CONDITIONS OR WITHIN THE DRAWINGS AND THE SPECIFICATIONS. FAILURE TO DO SO WILL RELIEVE THE ARCHITECT OF ANY RESPONSIBILITY REGARDING ANY CONSEQUENCES THAT MIGHT RESULT FROM SUCH DISCREPANCIES
7. GENERAL CONTRACTOR SHALL SUBMIT, FOR OWNER AND ARCHITECT APPROVAL, SAMPLES AND PRODUCT DATA FOR ANY SUBSTITUTED PRODUCTS AND / OR SYSTEMS
8. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATION OF ALL DISCIPLINES AND TRADES AND THEIR POTENTIAL IMPACT ON THE PROJECT
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING , BETWEEN TRADES, ALL CUTTING AND PATCHING RESPONSIBILITIES
10. DUE TO MANUFACTURER VARIATIONS ON TYPE AND SIZES OF EQUIPMENT, MATERIALS, ETC., ALL DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE GENERAL CONTRACTOR AND APPROPRIATE COORDINATE WITH THE SUBCONTRACTORS AND SUPPLIERS
11. CONSTRUCTION DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS, LARGE SCALE DETAILS TAKE PRECEDENCE OVER PLANS AND ELEVATIONS AND ENGINEERING DRAWINGS TAKE PRECEDENCE OVER ARCHITECTURAL GRAPHIC REPRESENTATIONS
12. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL CONSTRUCTION DEBRIS AND FINAL CLEANING
13. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH TENANT FACILITIES FOR LOCATION OF TEMPORARY RESTROOM, DUMPSTER OTHER TEMPORARY FACILITIES AND EQUIPMENT. EXISTING RESTROOMS INSIDE OF THE BUILDING ARE OFF LIMITS TO CONSTRUCTION PERSONNEL
14. GENERAL CONTRACTOR IS RESPONSIBLE FOR KNOWING AND COMPLYING WITH ALL LOCAL ORDINANCES REGARDING NOISE, WORK HOURS, ETC

DRAWING TAGS AND REFERENCES

- XX — COLUMN TAG
- X### — ROOM NUMBER
- 108 — DOOR NUMBER
- # — EQUIPMENT NUMBER
- # — RESTROOM ACCESSORY NUMBER
- 000.00 — FINISHED FLOOR ELEVATION
- 000.00 — SPOT ELEVATION
- A# — PARTITION TYPE NUMBER
- X / AX.XX / X — INTERIOR / CASEWORK / MILLWORK ELEVATION
- XX / AX.XX — EXTERIOR / INTERIOR / CASEWORK / MILLWORK ELEVATION
- X / X–101 — ENLARGED DETAIL OR ENLARGED FLOOR PLAN
- X / X–101 — WALL / BUILDING SECTION
- X / X–101 — EXISTING CONDITIONS PHOTOGRAPH STATION POINT
- X — DRAWING KEYNOTE
- W3 — WINDOW NUMBER

MATERIAL DESIGNATIONS

- CONTINUOUS DIMENSIONAL WOOD LUMBER
- WOOD BLOCKING AND NAILERS
- RIGID INSULATION
- RIGID INSULATION
- RIGID INSULATION
- BATT INSULATION
- EARTH
- GRAVEL / STONE
- CONCRETE
- FIBERGLASS OR REINFORCED PLASTIC
- STEEL, ALUMINUM AND OTHER METALS
- GLASS AND MIRROR (ELEVATION)
- BRICK AND BRICK PAVERS (ELEVATION)
- PLYWOOD SHEATHING / BACKER BOARD
- GRASS / LAWN
- ASPHALT SHINGLES (ELEVATION)
- STANDING SEAM METAL ROOF (ELEVATION)

LINE TYPES

- W — W — DOMESTIC WATER LINE
- SS — SS — SANITARY SEWER LINE
- GAS — GAS — GAS LINE
- HW — HW — HOT WATER SUPPLY LINE
- CW — CW — COLD WATER SUPPLY LINE
- X — X — PERMANENT OR TEMPORARY FENCE, AS NOTED
- PROPERTY LINE
- OE — OE — OVERHEAD ELECTRICAL LINE
- UE — UE — UNDERGROUND ELECTRICAL LINE
- D — D — DATA LINE, AS NOTED (CABLE TV, INTERNET, ETC.)
- T — T — TELEPHONE LINE (BURIED OR OVERHEAD, AS NOTED)
- 1-HOUR FIRE RATED WALL
- 2-HOUR FIRE RATED WALL
- SUPPLY AIR
- RETURN / MAKUP / FRESH AIR

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BEAUFORT DESIGN BUILD

ARCHITECT / ENGINEER'S SEAL

BEAUFORT COUNTY SOUTH CAROLINA 1769

BEAUFORT COUNTY ADMINISTRATION BUILDING NEW GENERATOR AND SCREEN WALL
100 RIBAUT ROAD, BEAUFORT, SC 29902

FOR CONSTRUCTION

REVISIONS / SUBMISSIONS

NO.	DESCRIPTION	DATE

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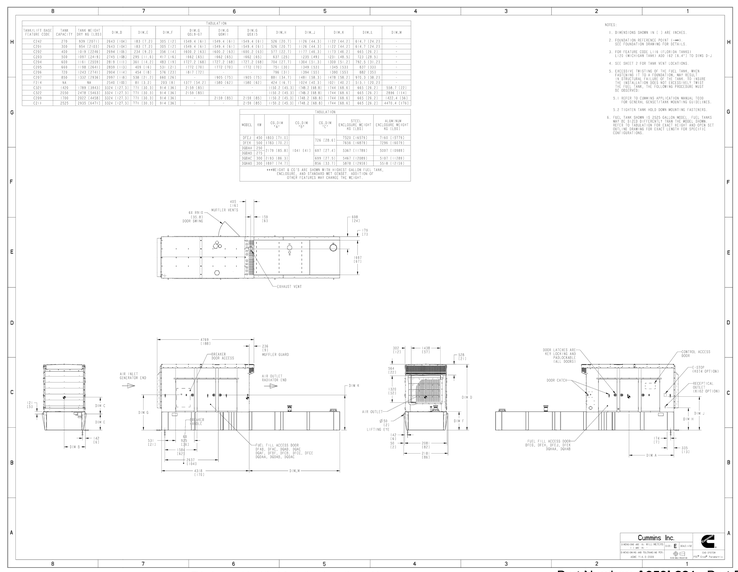
APPROVED	DCS

DRAWING STANDARDS AND CONSTRUCTION NOTES

G-102

ELECTRICAL GENERATOR AND FUEL TANK INFORMATION PROVIDED FOR REFERENCE ONLY. ELECTRICAL DESIGN AND DRAWINGS TO BE PROVIDED BY CDDC, LLC UNDER A SEPARATE CONTRACT WITH BEAUFORT COUNTY



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Part Number: **A050L281** Part Revision: **E**
Part Name: **OUTLINE,ENCLOSURE**
Drawing Category: **Detail** State: **Released** Sheet **1** of **4**

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A3 1,700 GALLON TANK DIMENSIONS AND CONFIGURATION
NOT TO SCALE

Specification Sheet

Enclosures and Tanks

250-1000 kW Gensets



Enclosure Standard Features

- 14-gauge steel construction (panels)
- Stainless steel hardware
- Zinc phosphate pretreatment, e-coat primer and super durable powder topcoat paint minimize corrosion and color fade
- Package listed to UL 2200
- Designed to satisfy national electrical code installation requirements
- Fuel and electrical stub-up area within enclosure perimeter
- Fixed louvers
- Cambered roof prevents water accumulation
- Recessed, lockable doors in two sides
- Retainers hold doors open for easy access
- Enclosed exhaust silencer ensures safety and protects against rust
- Rain cap
- Exterior oil and coolant drains with interior valves for ease of service
- Rodent barriers on inlet
- Non-hydroscopic sound attenuating material
- Side mounted controls and circuit breakers
- Easy access lifting points for spreader bars
- Dual vibration isolation system (250-500 kW)
- Spring vibration isolation system (600-1000 kW)
- Enclosure mounts to lifting base or fuel tank (250-500 kW)
- Enclosure mounts to lifting base (600-1000 kW)
- Factory pre-assembled package
- Designed for outdoor use only
- Externally mounted emergency stop button for operator safety (optional on 250-500 kW)
- Horizontal air discharge to prevent leaf and snow accumulation (600-1000 kW)

Options

- Three levels of sound attenuation
- Motorized louvers to protect from ice and snow accumulation (available on air inlet for all models and on air outlet on level II, 250-500 kW enclosures only)
- Horizontal air discharge, sound level 2 only (250-500 kW)
- Aluminium construction with roll-coated polymer paint
- Wind rated to 150 mph
- Neutral sandstone paint color
- Factory mounted battery charger
- External 120 VAC service outlet
- Rain hoods for air inlet (250-500 kW)
- Lifting base in lieu of a sub-base tank (250-500 kW)
  - Pre-wired AC distribution package
  - 100 amp (250-500 kW) or 150 amp (600-1000 kW) main circuit breaker; connected to 120 VAC Line-Neutral and 208 or 240 VAC Line-Line, spare breaker positions and capacity for future upgrades (600-1000 kW)
  - GFCI protected internal 120 VAC service receptacle
  - GFCI protected weather proof external 120 volt service receptacle
  - All factory installed AC powered features pre-wired into load center
- Interior lights – 120 volt (600-1000 kW)
- Rain hoods for air inlet (250-500 kW)
- Seismic isolators available (600-1000 kW)

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power.cummins.com

Package Dimensions of Enclosure, Exhaust System, and UL Tank

250-500 kW

Tank size (gal)	Weather protective package length (in)	QuietSite level I package length (in)	QuietSite level 2 package length (in)	Width (in)	Height (in)	Weather protective package weight (lbs)	QuietSite level 1 package weight (lbs)	QuietSite level 2 package weight (lbs)
270	188	188	222	82	106	4991	5471	6711
300	188	188	222	82	104	5648	6073	6991
400	188	188	222	82	106	5833	6258	7176
500	188	188	222	82	108	5956	6381	7299
600	188	188	222	82	111	6116	6541	7459
660	188	188	222	82	113	6235	6660	7578
720	188	188	222	82	114	6174	6599	7517
850	188	188	222	82	118	6529	6954	7872
1420	200	200	222	82	128	6863	7343	8583
1470	192	192	222	82	128	7253	7733	8973
1700	234	234	234	82	128	7982	8407	9325
2050	284	284	284	82	128	8383	8863	10103
2525	346	346	346	82	128	9391	9871	11111
Lifting base	188	188	222	82	100	4335	4760	5678

BoD

600-1000 kW

Tank size (gal)	Weather protective package length (in)	QuietSite level I package length (in)	QuietSite level 2 package length (in)	Width (in)	Height (in)	Weather protective package weight (lbs)	QuietSite level 1 package weight (lbs)	QuietSite level 2 package weight (lbs)
200	260	303	315	98	137	10194	13074	14054
660	260	303	315	98	137	9586	12466	14346
1000	260	303	315	98	141	10117	12997	14877
1500	260	303	315	98	146	10677	13557	15437
2000	292	327	327	98	143	11959	14839	16719
2400	338	338	338	98	143	12961	15841	17721

- This weight does not include the generator set. Consult your local Cummins distributor or the appropriate generator specification sheet.
- Width is 86" lifting eye to lifting eye (250-500 kW), 102" lifting eye to lifting eye (600-1000 kW).
- Height - Florida, Michigan, and Suffolk add 6.4" (250-500 kW) or 2' (600-1000 kW) for bottom space.
- Maximum length emergency vent removed.

CSA	CSA - The generator set is CSA certified to product class 4215-01.
UL	UL - The generator set is available listed to UL 2200, stationary engine generator assemblies. The PowerCommand® control is listed to UL 508 - Category NITW7 for U.S. and Canadian usage.

For more information contact your local Cummins distributor or visit power.cummins.com

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A1 GENERATOR SIZE AND DATA
NOT TO SCALE

Bft Cnty Admin Bldng - Generator Size External Inbox

ryan@cddceng.com Thu, May 28, 11:24 AM (7 days ago)
to me

Adam,

The genset is 234"Lx82"Wx128"H. See highlighted selection on last page. We will have the 1700 gallon sub base fuel tank

Also – on the long sides we will need 4ft clear on each side for working clearance and access doors (doors are 36"). The ends only need about 18" of clearance

Let me know what else you need from me.

Thank You,

Ryan Yocco, PE LEED AP
Principal

CDDC CONSULT DESIGN DRAFT CONSTRUCT

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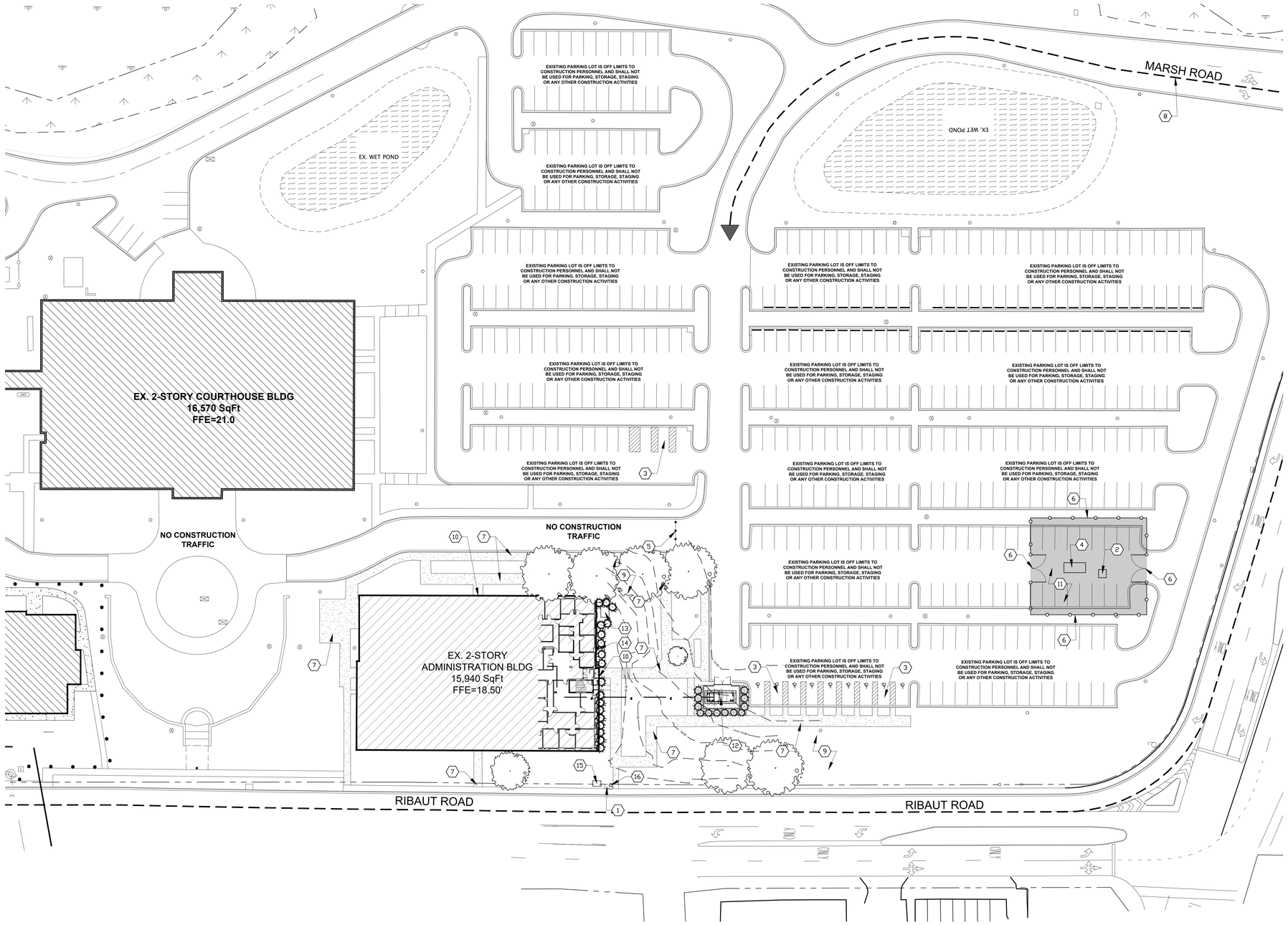
GENERATOR AND FUEL TANK DATA AND DIMENSIONS

G-103



A2 STORAGE, STAGING AND LAYDOWN PLAN
1/32" = 1'-0"
0 12' 24' 48' 72'

GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS
B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CARRYOUT ALL DEMOLITION AND DISPOSAL IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS
C. ALL EXISTING VEGETATION AT BUILDING PERIMETER IS TO BE PROTECTED DURING DEMO AND CONSTRUCTION. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMEDIATION OF REPLACEMENT OF ALL DAMAGED PLANTING
D. ALL EXISTING EGRESS ROUTES, MEAN OF EGRESS AND EXITS ARE TO BE KEPT FREE AND CLEAR FOR THE DURATION OF DEMOLITION AND CONSTRUCTION
E. CONTRACTOR SHALL DOCUMENT ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. SIDEWALKS, ASPHALT PAVING, LANDSCAPING, ETC. DAMAGED BY STORAGE AND/OR MOVEMENT OF MATERIALS AND/OR EQUIPMENT INTO THE BUILDING, REMOVAL OF DEMOLITION MATERIALS, ETC. SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE

SHEET KEY NOTES: (X)

1. EXISTING ELECTRICAL POLE
2. TEMPORARY RESTROOM TO BE LOCATED INSIDE CONSTRUCTION FENCING
3. EXISTING ACCESSIBLE PARKING SPACES. DO NOT BLOCK
4. CONSTRUCTION DUMPSTER TO BE LOCATED INSIDE CONSTRUCTION FENCING. DUMPSTER SHALL BE EMPTIED WHEN IT IS FILLED TO THE TOP. DO NOT ALLOW TO OVERFLOW
5. EXISTING TRAFFIC CONTROL GATE
6. CONSTRUCTION FENCING AND GATE BY CONTRACTOR
7. EXISTING CONCRETE SIDEWALK
8. ALL CONSTRUCTION TRAFFIC IS TO ACCESS THE SITE VIA MARSH ROAD
9. EXISTING VEGETATION TO BE PROTECTED DURING CONSTRUCTION
10. EXISTING EXIST AND ENTRY PATHWAY TO BE MAINTAINED FREE AND CLEAR AT ALL TIMES
11. GENERAL CONTRACTOR RESPONSIBLE FOR SECURING MATERIAL AND EQUIPMENT
12. PROPOSED LOCATION OF NEW GENERATOR AND SCREEN WALL
13. EXISTING ELECTRICAL TRANSFORMER
14. EXISTING GAS METER
15. EXISTING ABOVE-GRADE UTILITY CABINET
16. EXISTING TELECOMMUNICATIONS PEDESTAL

LEGEND:

- EXISTING BUILDING
- EXISTING CONCRETE SIDEWALK
- FENCED CONSTRUCTION PARKING LAYDOWN, STAGING AND STORAGE AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND MAINTAINING IN A CLEAN AND ORDERLY MANNER
- CONSTRUCTION SITE ACCESS AND EXIT SHALL BE VIA MARSH ROAD. ALL OTHER ACCESS POINTS ARE OFF LIMITS

CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT ALL EXISTING SITE CONDITIONS BEFORE BEGINNING WORK. DAMAGED LANDSCAPING, PAVING, SIDEWALKS AND OTHER SITE CONDITIONS NOT DOCUMENTED WILL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER

Know what's below. Call before you dig.

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ARCHITECT / ENGINEER'S SEAL

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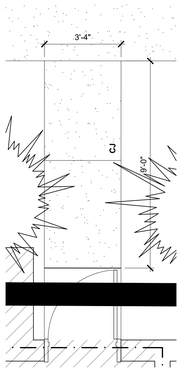
APPROVED	DCS

STORAGE, STAGING AND LAYDOWN PLAN

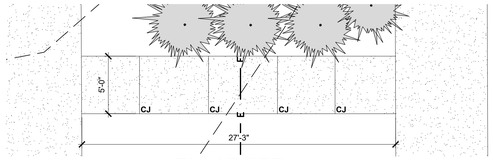
G-104



ENLARGED CONCRETE SIDEWALK PLAN

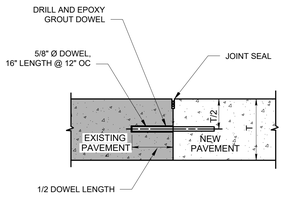
D6 3/8" = 1'-0"

PLANT SCHEDULE						
SHRUBS:						
QTY	**COMMON NAME**	**BOTANICAL NAME**	**HEIGHT**	**SPREAD**	**CALIPER**	**GALLON**
12	DWARF YAUPON HOLLY	ILLEX VOMITORIA 'NANA	2-3'	1-2'		7



ENLARGED CONCRETE SIDEWALK PLAN

D5 3/16" = 1'-0"

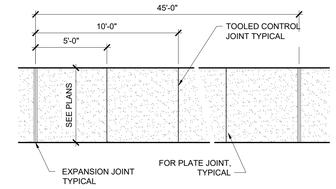


T = PAVEMENT THICKNESS

NOTES:
1. HOLES APPROXIMATELY 1/8 INCH GREATER IN DIAMETER THAN THE DOWELS SHALL BE DRILLED IN THE EXISTING CONCRETE AND THE DOWELS SHALL BE BONDED IN THE DRILLED HOLES USING AN EPOXY RESIN GROUT.

CONCRETE CUTTING/ PATCHING DETAIL

E3 3" = 1'-0"

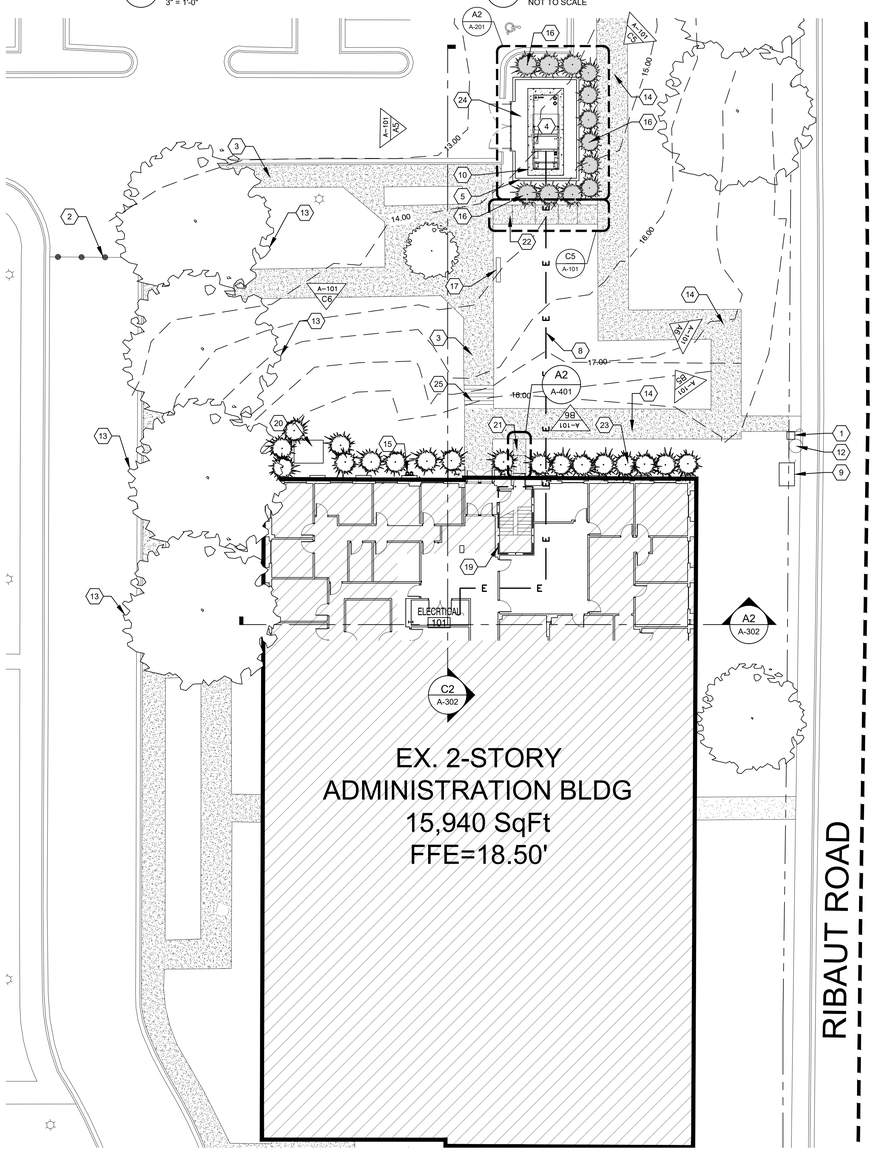


CONTROL JOINT EXPANSION JOINT

NOTE:
1. A GROOVE JOINT 1" DEEP WITH A 1/8" RADIUS SHALL BE REQUIRED IN CONCRETE SIDEWALKS AT 5'-0" INTERVALS. A 1/2" EXPANSIONS JOINT WILL BE REQUIRED WHERE THE WALK JOINS A RIGID STRUCTURE
2. ALL CONCRETE TO BE 3600 PSI COMPRESSIVE STRENGTH AT 28 DAYS UNLESS NOTED OTHERWISE

CONCRETE SIDEWALK DETAILS

E2 NOT TO SCALE

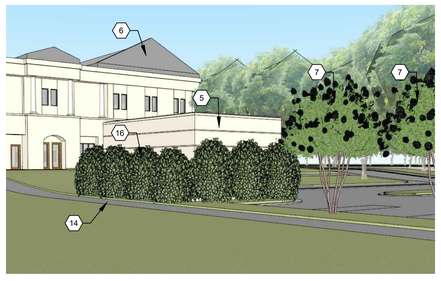


A2 SITE PLAN
1/16" = 1'-0"
0 6' 12' 24'



EXISTING CONDITIONS PHOTOGRAPH

C6 NOT TO SCALE



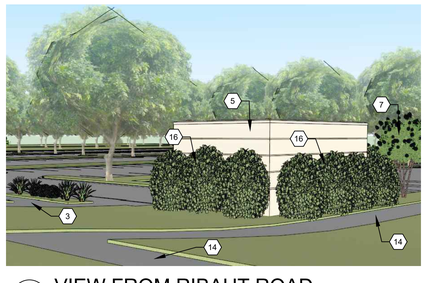
VIEW FROM RIBAUT ROAD

C5 NOT TO SCALE



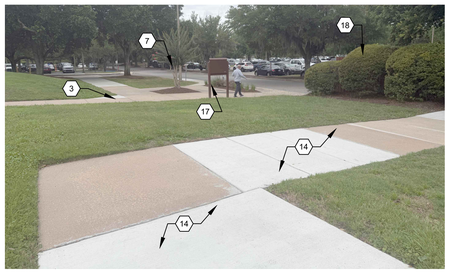
EXISTING CONDITIONS PHOTOGRAPH

B6 NOT TO SCALE



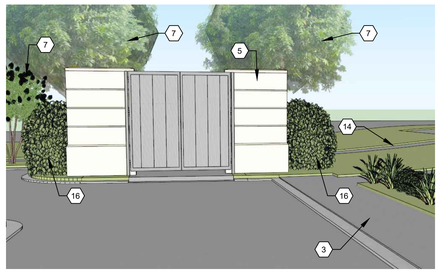
VIEW FROM RIBAUT ROAD

B5 NOT TO SCALE



EXISTING CONDITIONS PHOTOGRAPH

A6 NOT TO SCALE



VIEW FROM PARKING LOT

A5 NOT TO SCALE

GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS
B. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE EXCAVATION AND PROTECT EXISTING UTILITIES

SHEET KEY NOTES: (X)

1. EXISTING TELECOMMUNICATIONS PEDESTAL
2. EXISTING TRAFFIC CONTROL GATE
3. EXISTING CONCRETE SIDEWALK IS TO BE MAINTAINED FREE AND CLEAR AT ALL TIMES
4. NEW DIESEL POWERED ELECTRICAL GENERATOR
5. CMU SCREEN WALL WITH EIFS FINISH TO MATCH EXISTING BUILDING
6. EXISTING ADMINISTRATION BUILDING
7. EXISTING TREE TO REMAIN
8. PROVIDE UNDERGROUND ELECTRICAL CONDUIT FROM GENERATOR TO EXISTING BUILDING. ROUTE CONDUIT ABOVE CEILING WITHIN BUILDING AND EXTEND TO EXISTING ELECTRICAL ROOM. COORDINATE EXACT ROUTING WITH EXISTING BUILDING CONDITIONS
9. EXISTING ABOVE-GRADE UTILITY CABINET
10. 6", 4,000 PSI REINFORCED CONCRETE GENERATOR PAD. TOP OF PAD TO BE SET AT ELEVATION 14.50
11. EXISTING DUMPSTER ENCLOSURE TO BE REMOVED
12. EXISTING ELECTRICAL POLE
13. APPROXIMATE LOCATION OF EXISTING TREE DRIP LINE
14. EXISTING ACCESSIBLE ROUTE FROM PARKING SPACES TO BUILDING. MAINTAIN FREE AND CLEAR AT ALL TIMES
15. EXISTING GAS METER
16. NEW LOW-MAINTENANCE, DROUGHT-TOLERANT LANDSCAPING AROUND SCREEN WALL. MAINTAIN REQUIRED GENERATOR ACCESS AND SERVICE CLEARANCES
17. EXISTING SIGN TO REMAIN
18. REMOVE EXISTING LANDSCAPING AS REQUIRED FOR CONSTRUCTION OF NEW GENERATOR ENCLOSURE
19. DO NOT PENETRATE EXISTING 2-HOUR FIRE RATED STAIR SHAFT WALL
20. EXISTING ELECTRICAL TRANSFORMER
21. REMOVE EXISTING CONCRETE PAVERS AND INSTALL NEW 4" THICK 3,600 PSI CONCRETE SIDEWALK FROM EXISTING EXIT LANDING TO EXISTING SIDEWALK. MATCH EXISTING GRADES, PROVIDE FLUSH TRANSITIONS, AND REPAIR ADJACENT LANDSCAPING DISTURBED BY CONSTRUCTION
22. NEW 4" THICK 3,600 PSI ACCESSIBLE CONCRETE SIDE WALK CONNECTING TO EXISTING ACCESSIBLE ROUTE. MATCH EXISTING GRADES AND PROVIDE FLUSH TRANSITIONS. SLOPES SHALL COMPLY WITH ACCESSIBILITY REQUIREMENTS
23. REMOVE EXISTING LANDSCAPING TO THE EDGE OF THE ADJACENT WINDOW AS REQUIRED FOR TRENCHING AND INSTALLATION OF NEW EXTERIOR JUNCTION BOX. PROVIDE NEW SOD IN ALL DISTURBED AREAS UPON COMPLETION OF WORK
24. REMOVE EXISTING DUMPSTER PAD, ENCLOSURE, AND ASSOCIATED MATERIALS. PREPARE SUBGRADE AS REQUIRED FOR NEW GENERATOR PAD
25. EXISTING STAIRS TO REMAIN

LEGEND:

- EXISTING BUILDING
- EXISTING CONCRETE SIDEWALK
- PROPERTY LINE
- EXISTING LIGHT POLE
- EXISTING CONDITIONS PHOTOGRAPH STATION POINT AND DIRECTION OF VIEW

BEAUFORT
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BEAUFORT DESIGN BUILD

ARCHITECT / ENGINEER'S SEAL

BEAUFORT COUNTY SOUTH CAROLINA 1769

BEAUFORT COUNTY ADMINISTRATION BUILDING NEW GENERATOR AND SCREEN WALL

100 RIBAUT ROAD,
BEAUFORT, SC 29902

FOR CONSTRUCTION

REVISIONS / SUBMISSIONS

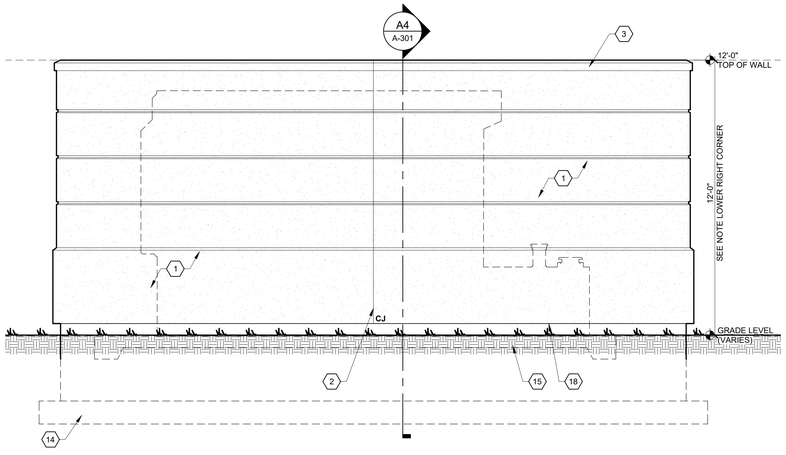
NO.	DESCRIPTION	DATE

SHEET INFORMATION

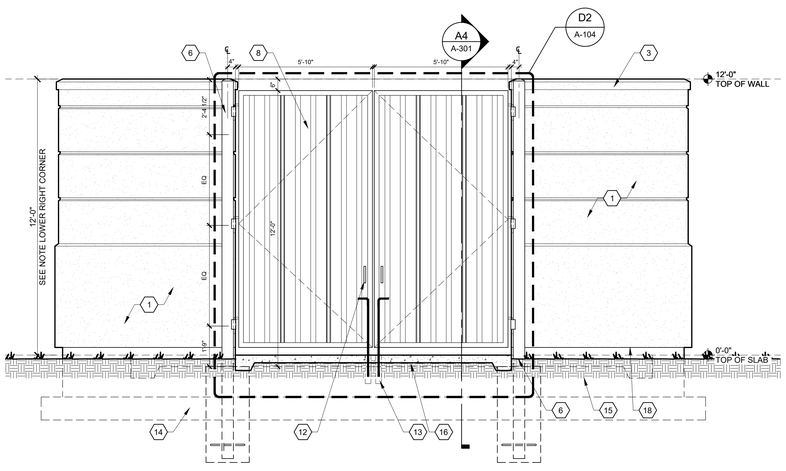
DATE	AUGUST 19, 2026
JOB NUMBER	26009
DRAWN	RAC
CHECKED	DCS
APPROVED	DCS

GENERATOR LOCATION

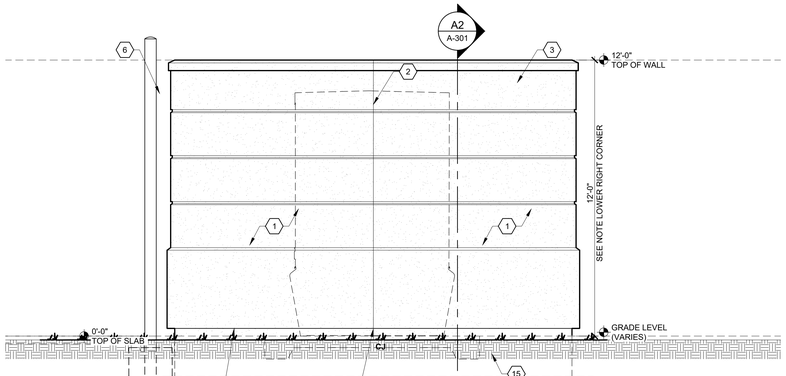
A-101



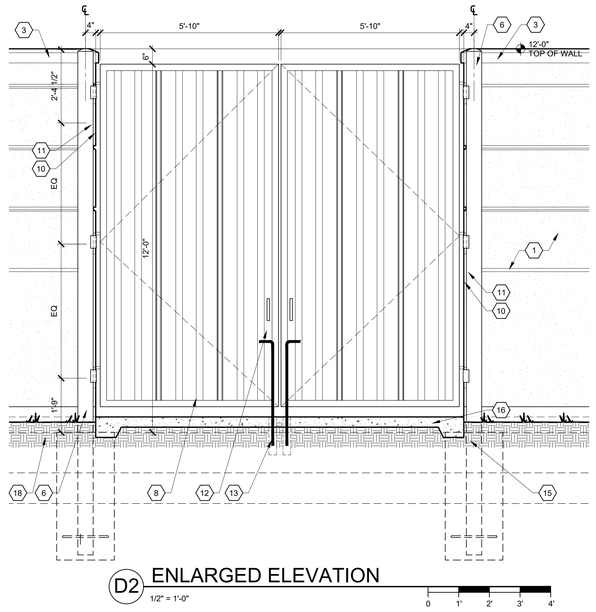
D6 WEST ELEVATION
3/8" = 1'-0"



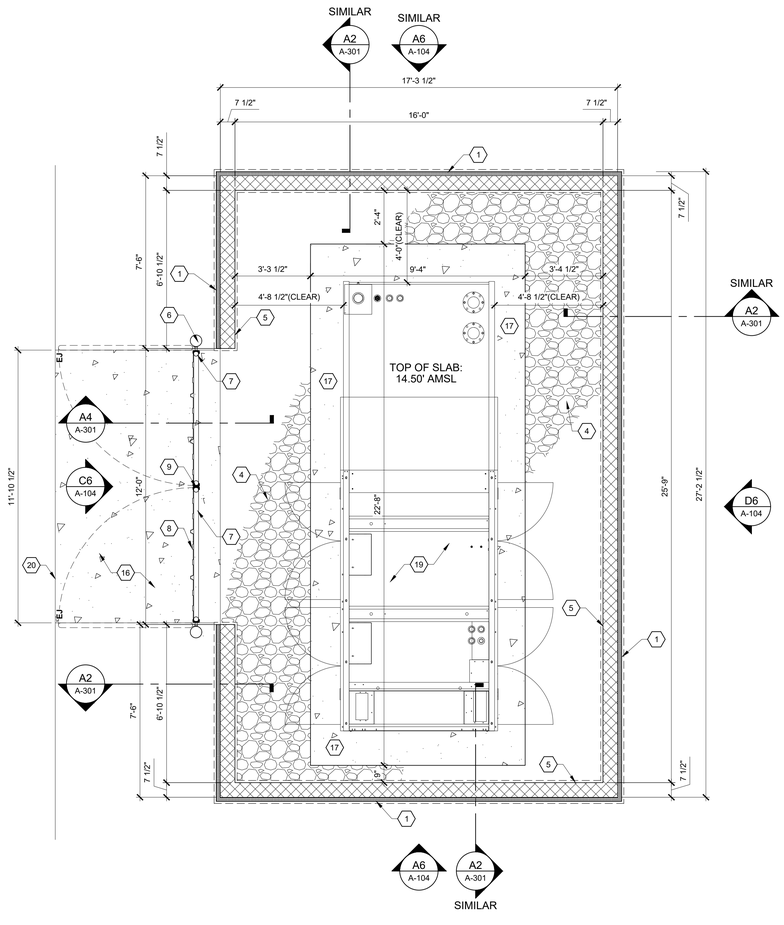
C6 EAST ELEVATION
3/8" = 1'-0"



A6 NORTH / SOUTH ELEVATION (TYP)
3/8" = 1'-0"



D2 ENLARGED ELEVATION
1/2" = 1'-0"



A2 GENERATOR ENCLOSURE FLOOR PLAN
3/8" = 1'-0"

GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS
B. ALL STEEL ELEMENTS TO BE PRIME AND PAINTED

SHEET KEY NOTES: (X)

1. PAINTED EIFS FINISH
2. 3/4" EIFS EXPANSION JOINT, COMPATIBLE SEALANT WITH CLOSED CELL BACKER ROD, ALIGN WITH CMU CONTROL JOINT
3. CAST STONE WALL CAP
4. 6" #57 STONE CONTINUOUS AROUND NEW GENERATOR PAD
5. 8" REINFORCED CMU BLOCK WITH TWO (2) COATS MASONRY SEALER, COLOR TO MATCH EIFS
6. 6" Ø SCH 40 GALV POST PRIMED AND PAINTED
7. 2 1/2" Ø GALV GATE FRAME PRIMED AND PAINTED
8. 20 GA GALVANIZED STEEL 4" RIB METAL PANEL, FASTEN TO EACH GATE FRAME WITH SELF-TAPPING SCREWS AT 12" OC (TO MATCH BRUSHED ALUMINUM WINDOW)
9. 20 GA GALVANIZED STEEL CLOSURE CHANNEL ON TOP AND SIDES OG EACH GATE, FASTEN TO EACH GATE FRAME WITH SELF-TAPPING SCREWS AT 12" OC
10. 1" Ø STEEL HOOK "L" WELDED TO GATE FRAME
11. 1-1/4" Ø INSIDE DIA SLEEVE WELDED TO 6" GATE POST
12. TURNED-UP ROD WELDED ONTO EACH GATE FRAME TO HOLD DROP ROD IN UP POSITION
13. 30" HIGH HEAVY DUTY DROP ROD. CENTER DROP ROD (ONE AT EACH GATE) PROVIDE 6" DEEP SLEEVED STOP SET IN CONCRETE SLAB (DO NOT DRILL FOR SLEEVES) FOR EACH DROP ROD LOCATION
14. 3,500 PSI CONCRETE FOOTING
15. COMPACTED SUBGRADE
16. NEW CONCRETE SIDEWALK TO EXTEND AND TIE INTO TO EXISTING SIDEWALK
17. 6" REINFORCED CONCRETE SLAB 3,500 PSI
18. EPS FOAM TO TERMINATE AT DRAINAGE TRACK PER MANUFACTURER'S SPECIFICATIONS
19. GENERATOR AND FUEL TANK BY OTHERS
20. EXPANSION JOINT BETWEEN NEW AND EXISTING CONCRETE

LEGEND:

- 8" CMU WALL
- 6" #57 STONE CONTINUOUS AROUND GENERATOR PAD
- 4" RIB METAL PANEL
- PAINTED EIFS FINNISH

OVERALL HEIGHT OF GENERATOR, INCLUDING FUEL TANK AND ENCLOSURE, SHALL NOT EXCEED 11'-0". SCREEN WALL HEIGHT SHALL BE 12'-0". REFER TO ELECTRICAL DRAWINGS

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ARCHITECT / ENGINEER'S SEAL

BEAUFORT COUNTY SOUTH CAROLINA 1769

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100 RIBAUT ROAD,
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FOR CONSTRUCTION

REVISIONS / SUBMISSIONS

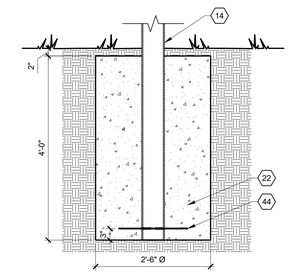
NO.	DESCRIPTION	DATE

SHEET INFORMATION

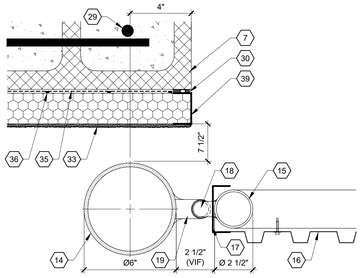
DATE	AUGUST 19, 2026
JOB NUMBER	26009
DRAWN	GRM
CHECKED	DCS
APPROVED	DCS

GENERATOR ENCLOSURE FLOOR PLAN AND ELEVATIONS

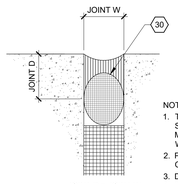
A-201



E6 GATE POST FOOTING SECTION
3/4" = 1'-0"

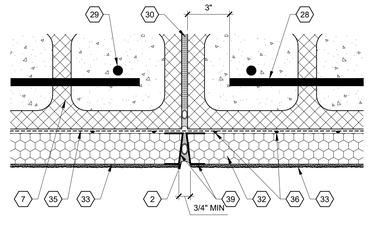


E5 GATE POST - PLAN DETAIL
3" = 1'-0"



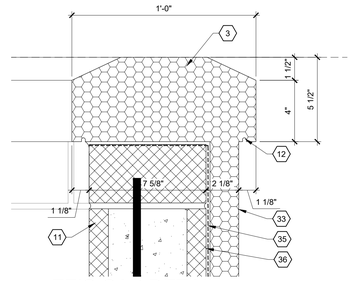
NOTES:
1. THOROUGHLY CLEAN ALL JOINTS AND SUBSTRATES - REMOVE ALL FORIEGN MATTER INCLUDING DUST, PAINT, OIL, WATERPROOFING, ETC.
2. PROVIDE AS REQUIRED TO PRODUCE A CLEAN SEALANT LINE WITHOUT SMEARS
3. DO NOT TWIST OR BRAID BACKER ROD
4. INSTALL SEALANT SO AS TO ELIMINATE ALL AIR POCKETS

E4 TYPICAL SEALANT JOINT GEOMETRY
NTS

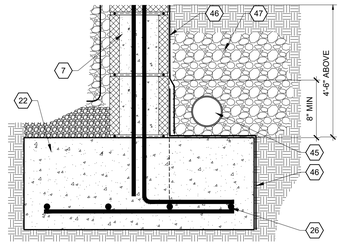


NOTE:
1. HORIZONTAL BAR CONTINUOUS THROUGH CONTROL JOINT ONLY AT BOND BEAM LINTEL

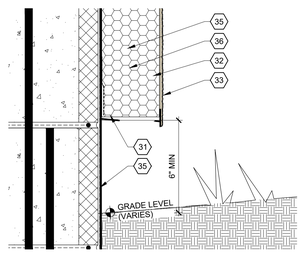
E3 CMU CONTROL JOINT
3" = 1'-0"



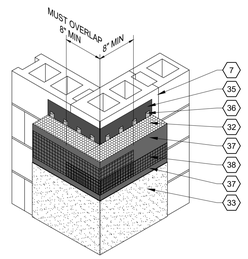
E2 EFIS CAP DETAIL
3" = 1'-0"



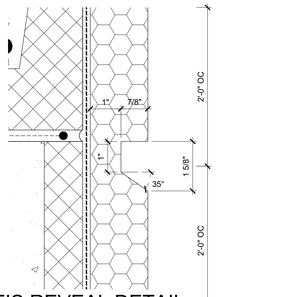
D6 CONCRETE FOOTING AND RETAINING WALL DRAINAGE
1-1/2" = 1'-0"



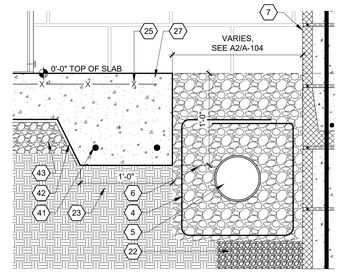
D5 EIFS - GRADE TERMINATION FLASHING DETAIL
3" = 1'-0"



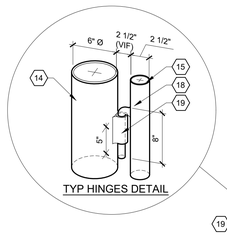
D4 OUTSIDE CORNER - EIFS
NTS

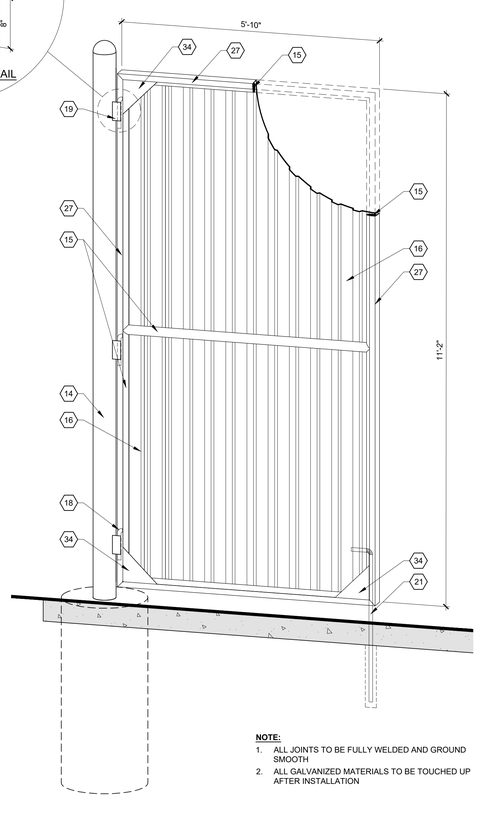


D3 EFIS REVEAL DETAIL
6" = 1'-0"



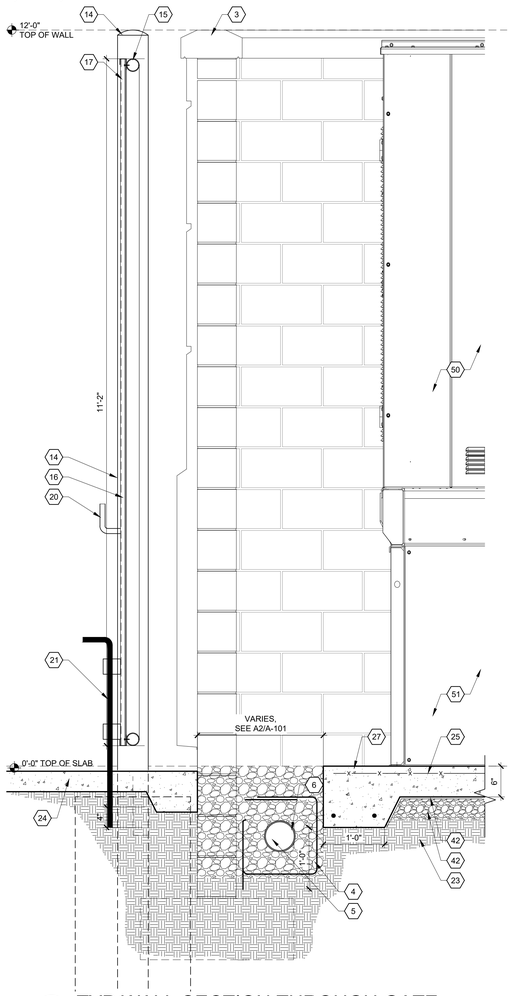
D2 TURNDOWN EDGE OF SLAB AND DRAIN DETAIL
1-1/2" = 1'-0"



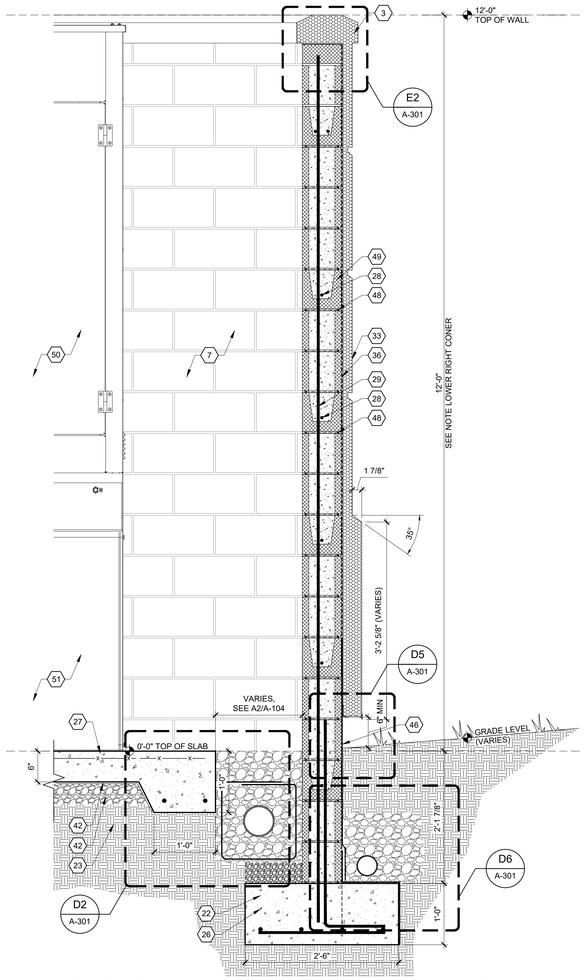


NOTE:
1. ALL JOINTS TO BE FULLY WELDED AND GROUND SMOOTH
2. ALL GALVANIZED MATERIALS TO BE TOUCHED UP AFTER INSTALLATION

A6 ISOMETRIC GATE FRAMING INSIDE VIEW DETAIL
NTS



A4 TYP WALL SECTION THROUGH GATE
1" = 1'-0"



A2 TYP WALL SECTION THROUGH CMU-EIFS
1" = 1'-0"

GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS
B. ALL STEEL ELEMENTS TO BE PRIME AND PAINTED

SHEET KEY NOTES: (X)

1. PAINTED EIFS FINISH
2. 3/4" EIFS EXPANSION JOINT, COMPATIBLE SEALANT WITH CLOSED CELL BACKER ROD
3. EFIS WALL CAP
4. CONTINUOUS FILTER FABRIC
5. 6" PERFORATED DRAIN EXTENDED TO DAYLIGHT IN RAIN GARDEN
6. 6" #57 STONE CONTINUOUS AROUND NEW GENERATOR PAD
7. 8" REINFORCED CMU BLOCK WITH TWO (2) COATS MASONRY SEALER, COLOR TO MATCH EIFS
8. NOT USED
9. BACKER ROD AND SEALANT
10. NOT USED
11. 8" CMU BOND BEAM LINTEL W/ (2) #5 CONTINUOUS THROUGH CONTROL JOINT, GROUTED SOLID FOR DOWEL ANCHORAGE AND FLASHING SUPPORT
12. 1/8" SAW-CUT DRIP, BOTH SIDES OF CAP
13. METAL FLASHING DRIP BOTH SIDES OF CAP
14. 6" Ø SCH 40 GALV POST PRIMED AND PAINTED
15. 2 1/2" Ø GALV GATE FRAME PRIMED AND PAINTED
16. 20 GA GALVANIZED STEEL 4" RIB METAL PANEL, FASTEN TO EACH GATE FRAME WITH SELF-TAPPING SCREWS AT 12" OC (TO MATCH BRUSHED ALUMINUM WINDOW)
17. 20 GA GALVANIZED STEEL CLOSURE CHANNEL ON TOP AND SIDES OG EACH GATE, FASTEN TO EACH GATE FRAME WITH SELF-TAPPING SCREWS AT 12" OC
18. 1" Ø STEEL HOOK "L" WELDED TO GATE FRAME
19. 1-1/4" Ø INSIDE DIA SLEEVE WELDED TO 6" GATE POST
20. TURNED-UP ROD WELDED ONTO EACH GATE FRAME TO HOLD DROP ROD IN UP POSITION
21. 30" HIGH HEAVY DUTY DROP ROD. CENTER DROP ROD (ONE AT EACH GATE) PROVIDE 6" DEEP SLEEVED STOP SET IN CONCRETE SLAB (DO NOT DRILL FOR SLEEVES) FOR EACH DROP ROD LOCATION
22. 3,500 PSI CONCRETE FOOTING
23. COMPACTED SUBGRADE
24. NEW CONCRETE SIDEWALK TO EXTEND AND TIE INTO TO EXISTING SIDEWALK
25. 6X6- W1.4XW1.4 W.W.F. IN TOP 1/3 OF SLAB
26. (4) #5 REBAR WITH 3" MIN COVER
27. 6" REINFORCED CONCRETE SLAB 3,500 PSI
28. (1) #5 HORIZONTAL BAR @ 24" OC, DO NOT CROSS CONTROL JOINT
29. (1) #5 VERTICAL BAR , @ 32" OC AND AT EACH END OR AS INDICATED
30. CONTINUOUS BACKER ROD AND SEALANT WITH COMPRESSIBLE FILLER
31. EPS FOAM TO TERMINATE AT DRAINAGE TRACK PER MANUFACTURER'S SPECIFICATIONS
32. 2" EPS FOAM
33. EIFS FINISH WITH REINFORCED MESH. STUCCO FINISH COLOR TREATED TBD
34. 12X12X1/8" GUSSET PLATE AT ALL CORNERS (INSIDE ONLY). WELD ALL AROUND GROUND SMOOTH
35. WATER-RESISTIVE BARRIER COATING
36. 1/8" GALVANIZED CORRUGATED STRIPS AT 24" OC FOR DRAINAGE AT BACK OF EPS FOAM
37. BASE COAT
38. REINFORCING MESH EMBEDDED IN BASE COAT
39. DETAIL MESH WRAPPED TO BACKSIDE OF EPS 2" MIN
40. BACKSTOP FLASHING TAPE
41. (2) #4 CONT REBAR W/ MIN 3" COVER
42. 10 MIL VAPOR BARRIER
43. 4" #57 CRUSHED STONE BASE
44. (1) #4x18" REBAR (60 KSI) AT EACH 6" POST BASE
45. 4" PERFORATED DRAIN TILE CONTINUOUS TO DAYLIGHT
46. LIQUID APPLIED WATERPROOFING SEALANT TO BE APPLIED 4'-6" ABOVE REINFORCED CONCRETE FOOTING AND NEW 8" CMU BLOCK WALL
47. CLEAN #57 STONE WRAPPED IN FILTER FABRIC
48. 8" LADDER TYPE JOINT REINFORCEMENT
49. 8" CMU BOND BEAM AT EACH HORIZONTAL REINFORCEMENT
50. GENERATOR BY OTHERS
51. FUEL TANK BY OTHERS

OVERALL HEIGHT OF GENERATOR, INCLUDING FUEL TANK AND ENCLOSURE, SHALL NOT EXCEED 11'-0". SCREEN WALL HEIGHT SHALL BE 12'-0". REFER TO ELECTRICAL DRAWINGS

BEAUFORT
2 Fire Station Lane
Seabrook, SC 29940

CHARLOTTE
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Cornelius, NC 28031

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BEAUFORT DESIGN BUILD

ARCHITECT / ENGINEER'S SEAL

BEAUFORT COUNTY SOUTH CAROLINA 1769

BEAUFORT COUNTY ADMINISTRATION BUILDING NEW GENERATOR AND SCREEN WALL
100 RIBAUT ROAD, BEAUFORT, SC 29902

FOR CONSTRUCTION

REVISIONS / SUBMISSIONS

NO.	DESCRIPTION	DATE

SHEET INFORMATION

DATE	AUGUST 19, 2026
JOB NUMBER	26009
DRAWN	GRM
CHECKED	DCS
APPROVED	DCS

GENERATOR ENCLOSURE WALL SECTIONS AND DETAILS

A-301

GENERAL NOTES:

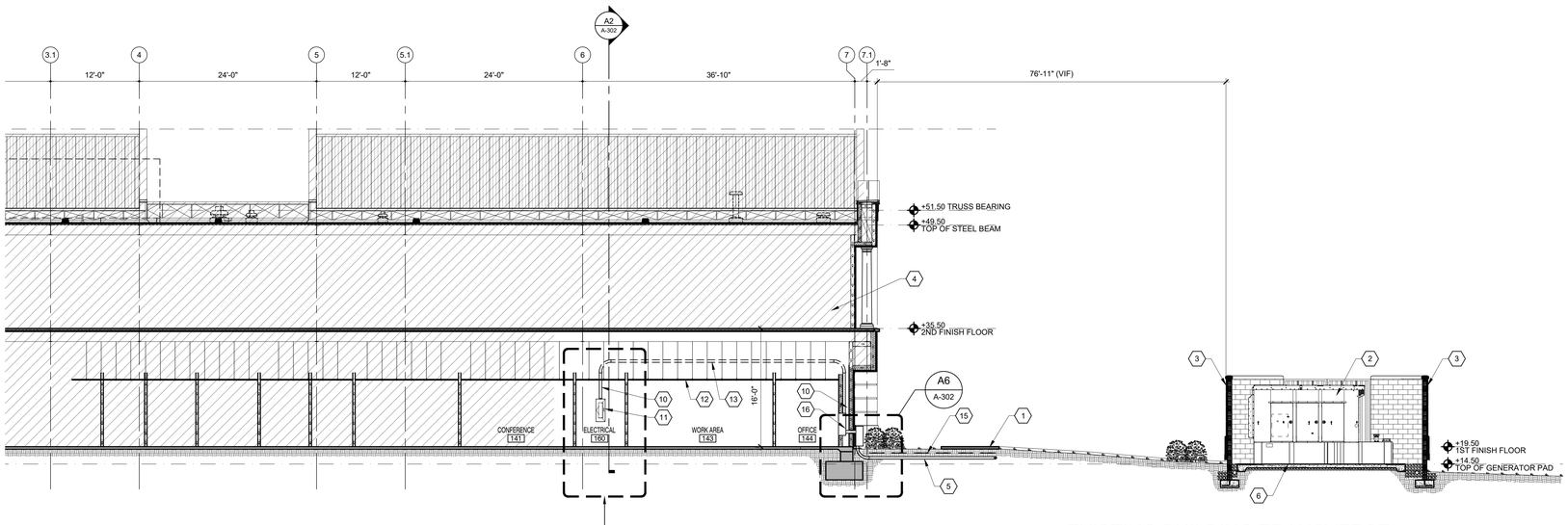
A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS

SHEET KEY NOTES: (X)

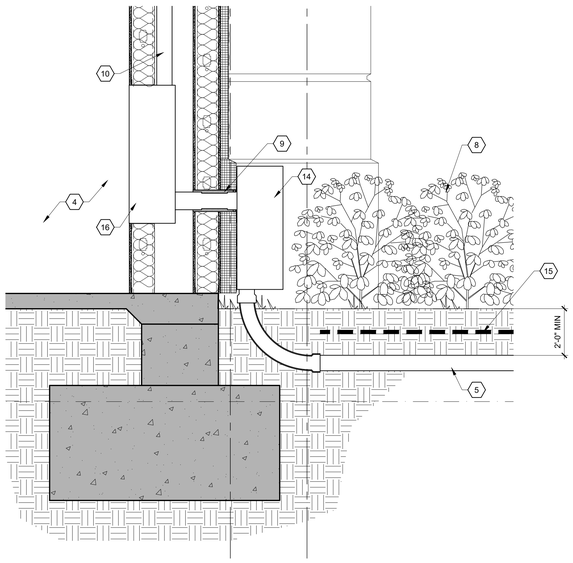
1. EXISTING CONCRETE SIDEWALK
2. NEW DIESEL POWERED ELECTRICAL GENERATOR
3. CMU SCREEN WALL WITH EIFS FINISH TO MATCH EXISTING BUILDING
4. EXISTING ADMINISTRATION BUILDING
5. PROVIDE UNDERGROUND ELECTRICAL CONDUIT FROM GENERATOR TO EXISTING BUILDING. ROUTE CONDUIT ABOVE CEILING WITHIN BUILDING AND EXTEND TO EXISTING ELECTRICAL ROOM. COORDINATE EXACT ROUTING WITH EXISTING BUILDING CONDITIONS
6. 6" 4,000 PSI REINFORCED CONCRETE GENERATOR PAD. TOP OF PAD TO BE SET AT ELEVATION 14.50
7. NEW LOW-MAINTENANCE, DROUGHT-TOLERANT LANDSCAPING AROUND SCREEN WALL. MAINTAIN REQUIRED GENERATOR ACCESS AND SERVICE CLEARANCES
8. REMOVE EXISTING LANDSCAPING TO THE EDGE OF THE ADJACENT WINDOW AS REQUIRED
9. PROVIDE SLEEVE AND SEAL AT CONDUIT PENETRATIONS THROUGH EIFS WALL SYSTEM. MAINTAIN WEATHER-RESISTIVE BARRIER CONTINUITY AND PROVIDE BACKER ROD AND HIGH-PERFORMANCE ELASTOMERIC SEALANT AT ALL PENETRATIONS. INSTALL FLASHING AND ACCESSORIES IN ACCORDANCE WITH EIFS MANUFACTURERS RECOMMENDATIONS
10. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MOST APPROPRIATE ROUTE FOR ELECTRICAL SERVICE FROM THE ATS PANEL ON THE EXISTING ELECTRICAL ROOM
11. APPROXIMATE LOCATION OF NEW AUTOMATIC TRANSFER SWITCH FOR NEW GENERATOR. SEE ELECTRICAL DRAWINGS
12. EXISTING SUSPENDED ACOUSTICAL TILE CEILING
13. NEW ELECTRICAL CONDUIT (BEYOND)
14. PROVIDE NEW 36" X 36"X12" EXTERIOR ELECTRICAL JUNCTION BOX. COORDINATE WITH ELECTRICAL DRAWINGS
15. DETECTABLE UNDERGROUND WARNING TAPE INDICATING "CAUTION BURIED ELECTRICAL" AND BURIED 12" ABOVE ELECTRICAL CONDUIT
16. PROVIDE NEW 36" X 36" RECESSED INTERIOR ELECTRICAL JUNCTION BOX. FRAME WALL OPENING AROUND BOX AS REQUIRED. COORDINATE WITH ELECTRICAL DRAWINGS.

LEGEND:

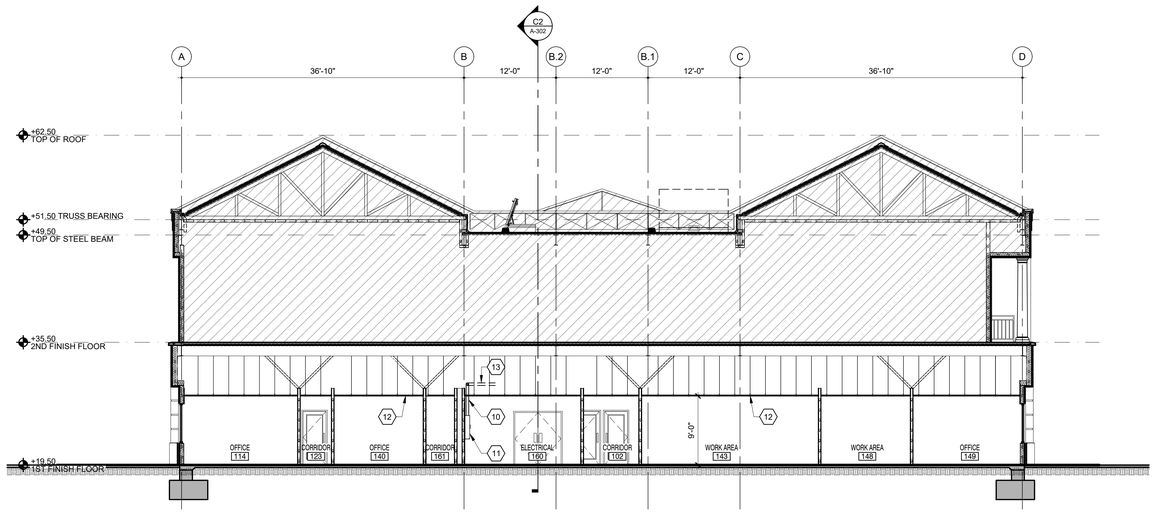
NO WORK IN THIS PORTION OF EXISTING BUILDING



C2 EXISTING BUILDING TRANSVERSE SECTION AT EXISTING ELECTRICAL ROOM
1/8" = 1'-0"



A6 ELECTRICAL SERVICE ENTRANCE AT EXTERIOR WALL
3/4" = 1'-0"



A2 EXISTING BUILDING TRANSVERSE SECTION AT EXISTING ELECTRICAL ROOM
1/8" = 1'-0"

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EXISTING BUILDING SECTIONS AT ELECTRICAL ROOM

A-302

ELECTRICAL NOTES AND SPECIFICATIONS:

1. ELECTRICAL INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE PRESENTLY EFFECTIVE VERSION OF THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE STATE OR LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE MORE STRINGENT SHALL APPLY.
2. THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL SCOPE OF WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
3. WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL OBTAIN ALL LICENSES, PERMITS, INSPECTIONS, AND CERTIFICATES OF APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND SHALL PAY ALL FEES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENTS AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST. THE CONTRACTOR SHALL ALSO PAY FOR ANY REQUIRED TEST(S) AND PROVIDE ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE TEST(S).
5. ALL WORK SHALL BE PERFORMED IN A NEAT, CLEAN, AND ORDERLY MANNER. ALL WIRING AND RACEWAYS SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE.
6. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL, EQUIPMENT, TOOLS, TRANSPORTATION, AND SUPERVISION TO PROVIDE A COMPLETE AND SATISFACTORILY OPERATING ELECTRICAL SYSTEM. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR STORING AND HANDLING ALL MATERIALS; THIS INCLUDES ANY OWNER SUPPLIED MATERIAL, FIXTURES OR EQUIPMENT.
7. ALL MATERIAL, EQUIPMENT, AND FIXTURES SHALL BE SPECIFICATION GRADE, NEW, AND U.L. LISTED FOR THE PURPOSE FOR WHICH IT IS USED.
8. THE ENTIRE ELECTRICAL SYSTEM SHALL BE FREE OF IMPROPER GROUNDS, SHORT OR OPEN CIRCUITS AND BE TESTED PRIOR TO ENERGIZING THE SYSTEM. ANY DEFECTS DISCOVERED DURING TESTING SHALL BE CORRECTED BY THE CONTRACTOR.
9. CONTRACTOR SHALL GUARANTEE ELECTRICAL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL FURNISH A WRITTEN COPY OF THE GUARANTEE TO THE OWNER. CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS REQUIRED TO PERFORM ANY WARRANTY WORK AT NO CHARGE TO THE OWNER.
10. ALL CONDUCTORS SHALL BE 75 DEGREE C, 600 VOLT, TYPE THWN/THHN INSULATION COPPER CONDUCTOR UNLESS NOTED OTHERWISE. ALL CONDUCTORS INSTALLED BELOW GRADE SHALL HAVE TYPE THWN INSULATION.
11. ALL BRANCH CIRCUIT WIRING SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE. ANY CIRCUIT INDICATED TO BE LARGER THAN #12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
12. ALL BELOW GRADE CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
13. ALL CONDUCTORS INSTALLED ABOVE GRADE AND INDOORS SHALL BE IN EMT CONDUIT WITH STEEL COMPRESSION TYPE FITTINGS.
14. ALL CONDUCTORS INSTALLED ABOVE GRADE AND OUTDOORS SHALL BE IN RIGID GALVANIZED STEEL (RGS) OR SCH 40 PVC CONDUIT AS INDICATED ON THE PLANS AND PERMITTED BY THE NATIONAL ELECTRIC CODE.
15. ALL RACEWAYS SHALL BE INSTALLED CONCEALED IN WALLS, CEILINGS, FLOORS AND OTHER CAVITIES TO THE GREATEST EXTENT PRACTICAL. ANY EXPOSED RACEWAYS REQUIRED SHALL BE RUN SO AS TO MINIMIZE THE NUMBER OF VERTICAL RUNS. ALL EXPOSED CONDUIT SHALL BE ROUTED TIGHT AGAINST THE STRUCTURE AND BE RUN PARALLEL AND PERPENDICULAR TO THE WALLS, CEILINGS, AND FLOORS, AS APPLICABLE.
16. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION SUCH AS GENERATORS, MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, MOTORS, TRANSFORMERS, AND THE LIKE, SHALL BE MADE USING METALLIC FLEX. ALL OUTDOOR FLEX SHALL BE PVC COATED. NO METALLIC FLEX SHALL EXCEED 6 FEET IN LENGTH.
17. ALL INDOOR DISCONNECTS AND PANELS SHALL BE IN NEMA TYPE 1 ENCLOSURES, UNLESS NOTED OTHERWISE. ALL EXTERIOR DISCONNECTS, PANELS, METER CENTERS AND SIMILAR EQUIPMENT SHALL BE IN NEMA TYPE 3R ENCLOSURES UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL HAVE THE APPROPRIATE VOLTAGE AND CURRENT RATINGS SUITABLE FOR THE APPLICATION. ALL DISCONNECTS/SAFETY SWITCHES SHALL BE TOTALLY ENCLOSED, HEAVY DUTY TYPE, AND BE HORSEPOWER RATED (IF APPLICABLE).
18. CONTRACTOR SHALL VERIFY ALL MECHANICAL AND KITCHEN EQUIPMENT (HVAC UNITS, WATER HEATERS, MOTORS, ELEVATORS, ETC.) ELECTRICAL SIZES AND LOCATIONS PRIOR TO ROUGH-IN AND INSTALLING FEEDER CIRCUITS. CONTRACTOR SHALL ALSO COORDINATE CIRCUIT BREAKER AND DISCONNECT TYPE AND SIZES REQUIRED WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN ACTUAL EQUIPMENT ELECTRICAL REQUIREMENTS AND THAT SHOWN ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
19. ALL WORK SHALL BE GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS. A COMPLETE EQUIPMENT GROUNDING SYSTEM, CONSISTING OF A GREEN INSULATED COPPER WIRE, SHALL BE INSTALLED IN EVERY CONDUIT REGARDLESS OF USE.
20. ALL PANELBOARDS SHALL HAVE THEIR SCHEDULES TYPED AND INSTALLED INSIDE THE FRONT COVER.
21. ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARDS, EQUIPMENT DISCONNECTS, ETC.) SHALL BE CLEARLY IDENTIFIED WITH LAMINATED PLASTIC NAMEPLATES. ENGRAVE EQUIPMENT DESIGNATION (NAME) AND IDENTIFYING INFORMATION (VOLTAGE, PHASE, FED FROM) AS SHOWN ON THE PLANS IN ¼" HIGH LETTERS. ALL EQUIPMENT NAMEPLATES SHALL BE WHITE WITH RAISED BLACK LETTERS EXCEPT THAT SERVING EMERGENCY EQUIPMENT SHALL BE WHITE WITH RAISED RED LETTERS. NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT ENCLOSURES, WHERE CLEARLY VISIBLE, WITH ADHESIVE AS WELL AS TWO SCREWS IN OPPOSITE ENDS.
22. ALL PANELBOARDS, DISCONNECTS, TRANSFORMERS, CIRCUIT BREAKERS, AND OTHER ELECTRICAL EQUIPMENT SHALL BE MANUFACTURED BY SQUARE-D, EATON OR SIEMENS. ALL EQUIPMENT PROVIDED ON A PROJECT SHALL BE OF THE SAME MANUFACTURER.
23. ALL CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT ROUTING AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD.
24. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED IN THE FIELD WITH FACILITIES MAINTENANCE STAFF AND ALL OTHER TRADES TO ELIMINATE ANY INTERFERENCES WITH DUCTWORK, PIPING, STRUCTURAL MEMBERS, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS THAT ARISE SHALL BE CORRECTED BY THE CONTRACTOR AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
25. PRIOR TO ROUGH-IN COORDINATE THE LOCATION AND MOUNTING HEIGHTS OF ALL WALL-MOUNTED DEVICES WITH THE MILLWORK, INTERIOR ELEVATIONS, AND GENERAL CONTRACTOR. NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A CONFLICT. REQUIRED ADJUSTMENTS IN DEVICE LOCATION (WITHIN 10' IN ANY DIRECTION OF THE EXISTING DEVICE) SHALL BE DONE SO AT NO ADDITIONAL COST TO THE OWNER.
26. THE WORK OF THIS DIVISION SHALL ALSO INCLUDE THOSE ITEMS NOT SPECIFICALLY MENTIONED OR DESCRIBED BUT WHICH ARE NECESSARY TO PRODUCE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM THAT CONFORMS TO THE DESIGN INTENT. SUCH ITEMS INCLUDE BUT ARE NOT LIMITED TO: FITTINGS, BOXES, CONNECTORS, WIRE NUTS, BLANK COVERS, STRAPPING, FASTENERS, ETC.
27. THE CONTRACTOR SHALL ADHERE TO EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS WHEN INSTALLING EQUIPMENT. IF A CONFLICT EXISTS BETWEEN THESE DRAWINGS AND THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND AWAIT CLARIFICATION IN WRITING.
28. ALL SPLICES SHALL BE MADE IN APPROPRIATE JUNCTION BOXES. SPLICES IN CONDUCTOR SIZE AWG #10 OR SMALLER MAY BE MADE USING SPRINGLOCK CONNECTORS (WIRE-NUTS). SPLICES IN CONDUCTORS LARGER THAN AWG #10 SHALL BE MADE USING COMPRESSION TYPE CONNECTORS OR INSULATED TERMINAL BLOCKS SUCH AS THOSE MANUFACTURERED BY POLARIS.
29. OUTLET BOXES FOR RECEPTACLES, LIGHT FIXTURES, LIGHT SWITCHES AND OTHER SIMILAR DEVICES SHALL BE FIRMLY ATTACHED TO STUDS OR OTHER STRUCTURAL MEMBERS. ALL BOXES SHALL BE LEVEL AND PLUMB. BOXES INTENDED TO SUPPORT CEILING FANS OR LARGE LIGHTING FIXTURES SHALL BE ADEQUATELY BLOCKED FOR SUPPORT AND BE LISTED FOR THE PURPOSE.
30. CONTRACTOR SHALL SUBMIT MANUFACTURER'S DATA SHEETS FOR MATERIALS AND EQUIPMENT TO THE ENGINEER FOR REVIEW AND APPROVAL.
31. PRODUCTS USED ON THIS PROJECT SHALL BE MANUFACTURED BY COMPANIES REGULARLY ENGAGED IN THE PRODUCTION OF SIMILAR PRODUCTS WITH A MINIMUM HISTORY OF THREE YEARS SUCCESSFUL PRODUCTION.
32. CONTRACTOR SHALL FURNISH THE OWNER A COMPLETE BOUND SET OF EQUIPMENT CATALOG SHEETS, MANUFACTURER'S SPECIFICATIONS AND SERVICE, AND OPERATING INSTRUCTIONS ON EQUIPMENT FURNISHED UNDER THIS DIVISION UPON COMPLETION OF WORK UNDER THIS DIVISION.
33. CONTRACTOR SHALL PROVIDE ONE SET OF 'AS-BUILT' DRAWINGS TO THE OWNER UPON COMPLETION OF CONSTRUCTION. THE AS-BUILT DRAWINGS SHALL BE CLEAN, LEGIBLE, NEAT, COMPILED IN AN ORDERLY MANNER, AND CONTAIN ALL WORK PERFORMED BY THE CONTRACTOR THAT DEVIATES FROM THE ORIGINAL CONTRACT DOCUMENTS.
34. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO SUBMITTING BID.
35. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, AS MANUFACTURED BY BUSSMAN OR APPROVED EQUAL.
36. BOXES SHALL BE GALVANIZED STEEL WHERE INSIDE, SCH 40 PVC OUTSIDE AND SHALL BE SIZED TO ACCOMMODATE WIRING, THE EQUIPMENT, OR APPARATUS TO BE INSTALLED AS REQUIRED BY NATIONAL ELECTRIC CODE. PROVIDE COVERS FOR ALL BOXES.
37. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE, OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OF DESIRED QUALITY. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND ENGINEER.
38. CONTRACTOR MAY PROVIDE CUMMINS, KOHLER OR CATERPILLAR GENERATOR MEETING THE LISTED REQUIREMENTS. EQUAL TRANSFER SWITCHES BY THE GENERATOR MANUFACTURER'S OR ASCO MAY ALSO BE PROVIDED.

LEGEND

ATS	AUTOMATIC TRANSFER SWITCH; SEE PLANS
ECB	ENCLOSED CIRCUIT BREAKER; SEE PLANS
$\$_{WP}$	GROUND FAULT CIRCUIT INTERRUPT WEATHER RESISTANT DUPLEX RECEPTACLE W/ WEATHERPROOF IN-USE COVER; 20A-120V 2-POLE GROUNDING TYPE
$\$_{WP}$	SINGLE-POLE TOGGLE SWITCH W/ WEATHERPROOF IN-USE COVER; 20A 120V 2-POLE GROUNDING TYPE W/ COVERPLATE
	EQUIPMENT DISCONNECT - NONFUSED.
	SURFACE MOUNTED PANELBOARD
	NORMAL POWER CONTINUATION CIRCUIT. (3) #12 AWG'S IN 1/2" CONDUIT UNLESS OTHERWISE NOTED
	HOME RUN TO PANELBOARD; CIRCUIT AND PANEL NUMBER INDICATED BY EACH ARROW
	LIGHTING FIXTURE - 1X4 LENS TYPE FOR WET LOCATION; WALL MOUNTED METALUX: 4VT3-LD5-6-G-UNV-L840-CD1-U, 49W /7159 LUMENS/ 4000K/ 80CRI
	'DASHED' LINES REPRESENT EXISTING CIRCUITING, EQUIPMENT, DEVICES, ETC.



NOTE:
DIAGRAM SHOWN FOR GENERAL PROJECT INTENT. REFER TO DRAWINGS FOR DETAILED INFORMATION.

1 / E001 EXTERIOR GRADE BETWEEN BUILDING & GENERATOR
SCALE: NOT TO SCALE

CDDC
CONSULT DESIGN DRAFT CONSTRUCT
P.O. BOX 2869 BLUFFTON, S.C. 29910
ph. 843-384-4731 fx. 843-837-3577

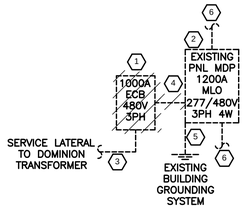
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CDDC LLC No.3906

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No.26988 RYAN W. YOCA

BEAUFORT COUNTY ADMINISTRATION BUILDING NEW GENERATOR

100 RIBAUT ROAD
BEAUFORT, SOUTH CAROLINA 29902

Revisions
XXX
XXX
XXX
XXX
XXX
Submittal: PERMIT
Drawn By: RMY / Checked By: RMY
Date: 08-12-2026
Scale: AS SHOWN
Project Number: 2590-MS-E1
Sheet: E001



GENERAL NOTES:

1. THE BUILDING ELECTRICAL SYSTEM SHALL REMAIN AS IS AND CONTINUE TO OPERATE WITH EXCEPTION TO THE SPECIFIC MODIFICATIONS SHOWN.

2. FIELD COORDINATE ALL REQUIRED POWER OUTAGES WITH BEAUFORT COUNTY FACILITIES MAINTENANCE PRIOR TO PERFORMING ANY WORK. OUTAGES SHALL BE PERFORMED OVER THE WEEKEND AFTER NORMAL BUSINESS HOURS AND BE LIMITED TO 2 CALENDAR DAYS (SATURDAY AND SUNDAY). CONTRACTOR SHALL PAY ANY FEES REQUIRED BY DOMINION ENERGY AND THE INSPECTIONS DEPARTMENT FOR AFTER HOURS WORK.

RISER DIAGRAM KEYED NOTES:

ALL KEYED NOTES ARE REPRESENTED BY A '⬡' SYMBOL.

1. EXISTING 1,000A ENCLOSED CIRCUIT BREAKER (ECB) SHALL BE REMOVED AND REPLACED WITH NEW ECB IN THE SAME LOCATION. SEE NEW RISER DIAGRAM.
2. EXISTING PANEL MDP SHALL REMAIN AS IS AND BE RE-FED. SEE NEW RISER DIAGRAM.
3. SERVICE LATERAL TO REMAIN AS IS AND BE RE-CONNECTED TO NEW ECB. SERVICE LATERAL CONSISTS OF 3 SETS OF (3) 500 KCMIL CU & (1) 3/0 AWG CU NEUTRAL IN 3" EMT CONDUIT; BOTTOM FED. ONE SET OF CONDUCTORS SHALL BE REMOVED; ONLY (2) SETS ARE REQUIRED FOR RE-CONNECTION TO NEW ECB.
4. DEMOLISH AND REMOVE (2) 3" EMT CONDUITS WITH (9) 500 KCMIL CU'S AND (3) 3/0 AWG CU'S.
5. EXISTING BUILDING GROUNDING ELECTRODE SYSTEM TO REMAIN AS IS AND BE RE-CONNECTED TO THE NEW ENCLOSED CIRCUIT BREAKER.
6. EXISTING FEEDERS TO REMAIN AS IS.

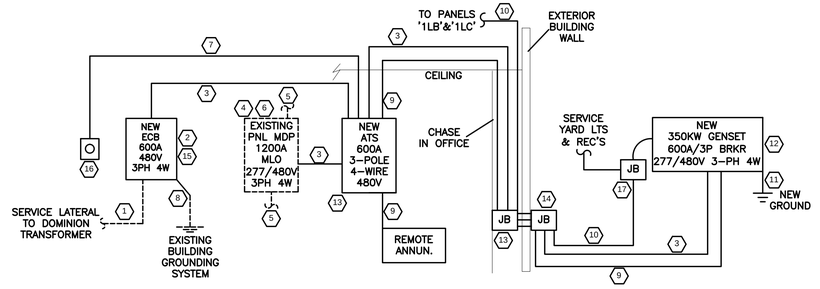
1 / E002 EXISTING/DEMOLITION PARTIAL ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

SERVICE LOAD CALCULATION – NEW MAIN BREAKER	
	LOAD
EXISTING METERED PEAK DEMAND	243 KVA
25% OF METERED PEAK DEMAND	61 KVA
TOTAL BUILDING LOAD	304 KVA
TOTAL CONNECTED LOAD @ 480V 3-PHASE	365 AMPS

PROVIDE PLACARD AS SHOWN ON FRONT OF MAIN SERVICE DISCONNECT (ECB)

480/277V 3ϕ 4W 600A BUS
SHORT CIRCUIT RATING:
35,000A RMS

AVAILABLE FAULT CURRENT:
27,794 RMS
CALCULATED ON 1/28/26
BASED ON A 500KVA UTILITY
TRANSFORMER 70 FT AWAY W/
AN AVAILABLE FAULT CURRENT
OF 31,650 A.



GENERAL NOTES:

1. ALL FINAL CONNECTIONS TO THE GENERATOR SHALL BE MADE USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT NOT EXCEEDING 6FT IN LENGTH.

2. FIELD COORDINATE ALL REQUIRED POWER OUTAGES WITH BEAUFORT COUNTY FACILITIES MAINTENANCE PRIOR TO PERFORMING ANY WORK. OUTAGES SHALL BE PERFORMED OVER THE WEEKEND AFTER NORMAL BUSINESS HOURS AND BE LIMITED TO 2 CALENDAR DAYS (SATURDAY AND SUNDAY). CONTRACTOR SHALL PAY ANY FEES REQUIRED BY DOMINION ENERGY AND THE INSPECTIONS DEPARTMENT FOR AFTER HOURS WORK.

3. ALL FEEDERS SHALL BE CONTINUOUS UN-SPLICED CABLE RUNS BETWEEN EACH PIECE OF EQUIPMENT. JUNCTION BOXES SHALL ONLY BE USED AS PULL POINTS.

4. ANY EXPOSED CONDUIT STUB-UPS OUTSIDE THE BUILDING SHALL BE RIGID GALVANIZED STEEL (RGS). BELOW GRADE CONDUITS SHALL BE SCH 40 PVC AND ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT.

RISER DIAGRAM KEYED NOTES:

ALL KEYED NOTES ARE REPRESENTED BY A '⬡' SYMBOL.

1. EXISTING SERVICE LATERAL CONSISTING OF 3 SETS OF (3) 500 KCMIL CU'S AND (1) #3/0 AWG CU NEUTRAL. RE-CONNECT (2) SETS OF THE CABLE. ONE SET SHALL BE DEMOLISHED AND REMOVED BACK TO TRANSFORMER.
2. PROVIDE 600A ENCLOSED CIRCUIT BREAKER (ECB) AND LOCATE IN PLACE OF EXISTING 1,000A ECB TO BE REMOVED. RE-CONNECT TO EXISTING SERVICE LATERAL. NEW BREAKER SHALL BE 100% RATED, U.L. LISTED FOR USE AS SERVICE ENTRANCE EQUIPMENT, AND RATED AT 35KAIC.
3. PROVIDE (2) 3.5" CONDUITS WITH (4) 500 KCMIL AL'S AND (1) #1 AWG CU GROUND EACH.
4. ENSURE ALL GROUNDS AND NEUTRALS ARE SEPARATED IN PANEL. PROVIDE GROUND BARS AND LUGS AS REQUIRED.
5. EXISTING FEEDERS TO REMAIN AS IS.
6. EXISTING PANEL TO REMAIN AS IS AND BE RE-CONNECTED.
7. PROVIDE 1/2" EMT W/ (2) #14 AWG CU'S STRANDED FOR GENERATOR E-STOP WIRING VIA TRANSFER SWITCH.
8. EXISTING BUILDING GROUNDING ELECTRODE SYSTEM TO REMAIN AND BE RELOCATED FROM PANEL 'MDP' TO THE NEW ECB. PROVIDE #3/0 AWG CU AND RE-CONNECT. RE-CONNECTION MAY OCCUR TO BUILDING STEEL IN THE MAIN ELECTRICAL ROOM CEILING AFTER CONFIRMING BUILDING STEEL IS BONDED TO ALL OTHER GROUNDING ELECTRODES PRESENT.
9. PROVIDE 1" CONDUIT W/ (8) #14 AWG CU'S STRANDED AND (1) BELDON 9729 SHIELDED STRANDED TWISTED PAIR FROM GENERATOR TO ATS; (2) #14 AWG'S FROM GENERATOR TO ATS ARE FOR EMERGENCY STOP. PROVIDE (6) #14 AWG CU'S STRANDED AND (1) BELDON 9729 SHIELDED STRANDED TWISTED PAIR FROM ATS TO REMOTE ANNUNCIATOR FOR CONTROL WIRING. LEAVE 4FT SLACK AT EACH END OF ALL RUNS AND COORDINATE FINAL CONNECTION WITH GENERATOR TECHNICIAN.
10. PROVIDE 3/4" CONDUIT W/ (7) #12 AWG CU'S STRANDED (3 120V CKTS W/ SHARED GROUND) FROM PANEL '1LB' & '1LC' TO JUNCTION BOX IN SERVICE YARD ON WALL FOR SERVICE YARD GENERAL RECEPTACLE AND GENERATOR BLOCK HEATER/BATTERY CHARGER. CONNECT NEW LOADS TO EXISTING 20A 1-POLE SPARE BREAKERS IN PANELS. UPDATE PANEL SCHEDULE AFTER NEW LOADS ARE INSTALLED.
11. PROVIDE NEW 10FT X 3/4" COPPER CLAD DRIVEN GROUND ROD AND CONNECT WITH #1 AWG CU TO GROUND BUS AT GENERATOR. IN ADDITION PROVIDE CONCRETE ENCASED ELECTRODE IN GENERATOR SLAB AND BOND TO GENERATOR GROUND BUS WITH #4 AWG CU FOR SUPPLEMENTAL GROUNDING.
12. ENSURE EQUIPMENT BONDING JUMPER BETWEEN GROUND AND NEUTRAL IS REMOVED AT THE GENERATOR. THE GENERATOR IS NOT A SEPARATELY DERIVED SOURCE.
13. 36"X36"X12" NEMA 1 METAL JUNCTION BOX WITH COVER FLUSH IN INTERIOR OFFICE WALL FOR CONDUIT TRANSITION; SEE PLANS.
14. 36"X36"X12" NEMA 3R METAL JUNCTION BOX WITH COVER SURFACE MOUNT ON EXTERIOR OFFICE WALL FOR CONDUIT TRANSITION; SEE PLANS.
15. CONTRACTOR SHALL PROVIDE A PERMANENT PHENOLIC PLACARD SIGN AT SERVICE DISCONNECT INDICATING "SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE POWER SOURCE IS ENERGIZED." PLACARD SHALL BE INSTALLED PER ARTICLE 700.7 AND 110.21(B) OF THE 2020 NEC. PLACARD SHALL BE RED IN COLOR WITH WHITE LETTERS. CONTRACTOR SHALL ALSO PROVIDE PERMANENT PHENOLIC PLACARD LABEL ON SERVICE DISCONNECT STATING: "MAIN SERVICE DISCONNECT FOR PREMISE WIRING SYSTEM. PREMISE IS EQUIPPED WITH EMERGENCY GENERATOR AND WILL STILL HAVE POWER AFTER DISCONNECT IS TURNED OFF. SHUT GENERATOR OFF TO TURN ALL POWER OFF TO BUILDING."
16. PROVIDE REMOTE EMERGENCY STOP SHUNT TRIP BUTTON TO SHUT DOWN THE GENERATOR AND LOCATE ADJACENT TO MAIN SERVICE DISCONNECT (600A ECB). PROVIDE PLACARD LABEL ON BUTTON INDICATING "GENERATOR EMERGENCY STOP. DEPRESS BUTTON TO SHUT-DOWN GENERATOR." THE GENERATOR SHALL NOT BE ABLE TO RE-START BY SIMPLY DIS-ENGAGING THE E-STOP BUTTON. COORDINATE WIRING REQUIREMENTS WITH GENERATOR SUPPLIER FOR SHUT-DOWN. PROVIDE LOCKABLE COVER FOR SHUNT TRIP BUTTON.
17. PROVIDE 8"X8"X4" PVC JUNCTION BOX WITH COVER IN SERVICE YARD AND SPLIT BRANCH CIRCUITS OUT TO SERVICE YARD RECEPTACLE/LIGHTS AND GENERATOR BLOCK HEATER/BATTERY CHARGER.

GENERATOR NOTES:

1. PROVIDE A CUMMINS, KOHLER OR CATERPILLAR 480/277V 3-PHASE 4-WIRE WYE CONNECTED 350kW PERMANENT MAGNET EXCITATION DIESEL GENERATOR WITH 125 °C ALTERNATOR CAPABLE OF FULL SINGLE-PHASE OUTPUT. PROVIDE A DOUBLE-WALL SUB-BASE FUEL TANK WITH INTERNAL LEAK DETECTION CAPABLE OF 72 HOURS RUN TIME AT FULL LOAD. PROVIDE A QUIETSITE LEVEL II WEATHERPROOF ALUMINUM ENCLOSURE RATED FOR 150MPH WIND ZONE. PROVIDE BATTERY CHARGER AND BLOCK HEATER. GENERATOR, ENCLOSURE AND FUEL TANK SHALL BE RATED FOR USE IN A SEISMIC ZONE. GENERATOR OUTPUT BREAKER SHALL BE 600 AMP 100% RATED THERMAL MAGNETIC. OVERALL HEIGHT OF GENERATOR INCLUDING FUEL TANK AND ENCLOSURE SHALL NOT EXCEED 11 FEET. TOTAL SERVICE YARD WALL HEIGHT IS 12 FEET. CUMMINS INFORMATION HAS BEEN USED AS THE BASIS OF DESIGN FOR DIMENSIONS, ENCLOSURE, FUEL TANK, ETC. CONFIRM DIFFERENT MANUFACTURER'S EQUIPMENT WILL WORK WITH THE SERVICE YARD LAYOUT.

CONTRACTOR SHALL PROVIDE AND INSTALL THE GENERATOR INCLUDING ALL COSTS ASSOCIATED WITH PROVIDING A CRANE AND ANY OTHER EQUIPMENT OR SUBCONTRACTORS NECESSARY TO SET THE GENERATOR IN PLACE AND ANCHOR THE MACHINE TO THE CONCRETE PAD PER THE MANUFACTURER'S REQUIREMENTS.

CONTRACTOR SHALL PROVIDE GENERATOR START-UP AND PROVIDE A MINIMUM 4-HOUR LOAD BANK TEST. AFTER LOAD BANK TEST THE GENERATOR SHALL OPERATE THE BUILDING FOR A 2-HOUR PERIOD. CONTRACTOR SHALL PROVIDE A 5 YEAR WARRANTY FOR THE GENERATOR AND ALL ASSOCIATED COMPONENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRST FILLING OF GENERATOR FUEL TANK. CONTRACTOR SHALL REFILL TANK TO FULL CAPACITY AFTER REQUIRED LOAD BANK AND BUILDING RUN TESTS.

2. PROVIDE OPEN TRANSITION, 3-POLE, 480V 3-PHASE, 35KAIC NON-SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH W/ (2) SETS OF AUXILIARY CONTACTS AND SOLID NEUTRAL; CUMMINS OTEC SERIES OR EQUAL. SIZE AS INDICATED ON RISER DIAGRAM. ADJUST OPEN DELAYED TRANSITION SETTING IN TRANSFER SWITCH PARAMETERS FROM FACTORY DEFAULT OF 0.5 SECONDS TO 2 SECONDS, TO ALLOW FOR LOAD VOLTAGE DECAY.

3. PROVIDE A LEVEL-2 REMOTE ANNUNCIATOR, IN ACCORDANCE WITH NFPA 110, FOR GENERATOR MONITORING AND LOCATE IN ELECTRICAL ROOM ADJACENT TO FIRE ALARM CONTROL PANEL.

2 / E002 NEW & EXISTING ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

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CDDC LLC No.3906

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
08/12/2026
No.26988
RYAN M YOCAM

BEAUFORT COUNTY ADMINISTRATION BUILDING NEW GENERATOR

100 RIBAUT ROAD
BEAUFORT, SOUTH CAROLINA 29902

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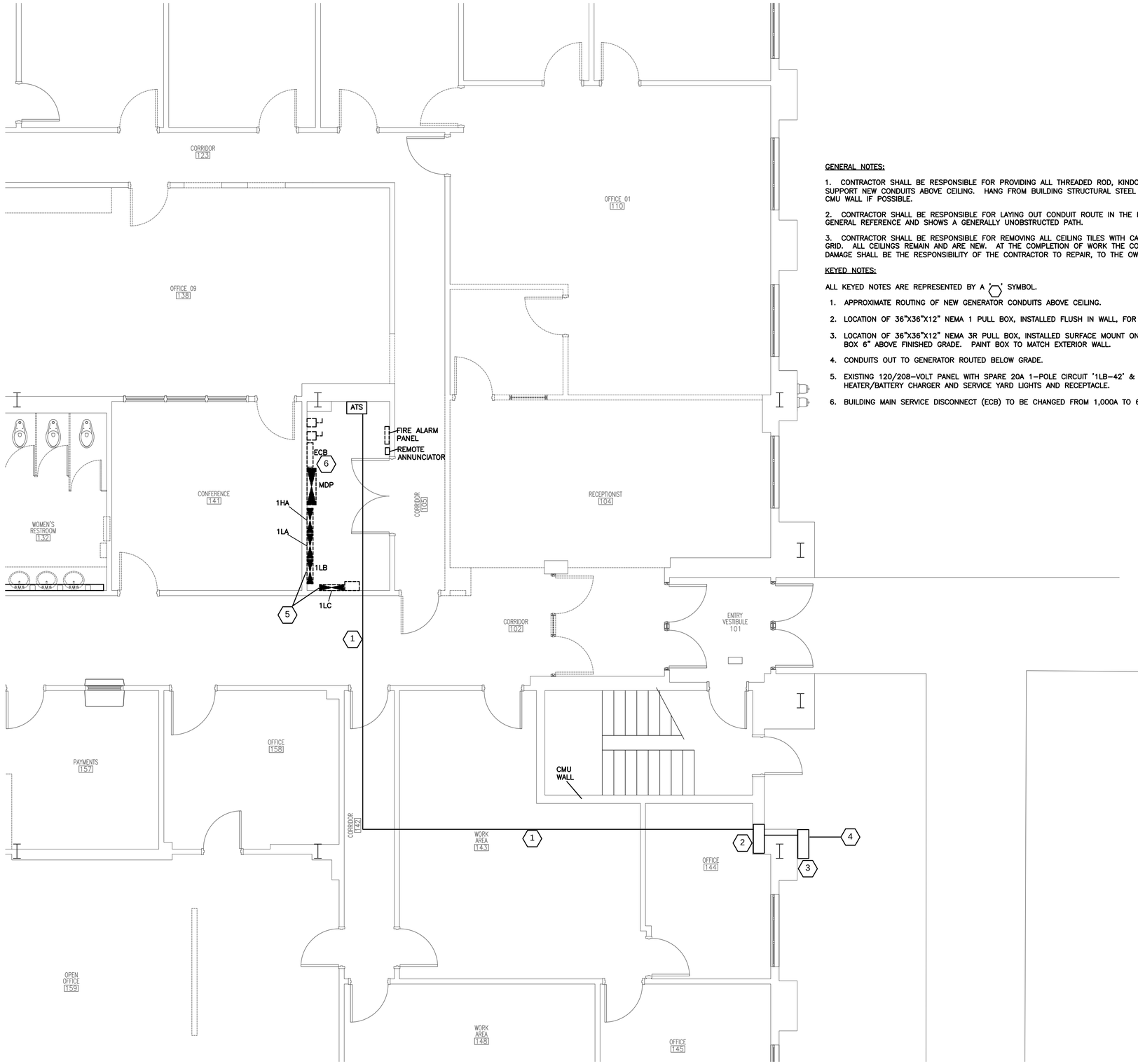

1 / E100 PARTIAL ELECTRICAL INSTALLATION PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THREADED ROD, KINDORF, FASTENERS, STRAPS, ETC. AS REQUIRED TO SUPPORT NEW CONDUITS ABOVE CEILING. HANG FROM BUILDING STRUCTURAL STEEL (RED IRON) AND/OR SURFACE MOUNT TO STAIRWELL CMU WALL IF POSSIBLE.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT CONDUIT ROUTE IN THE FIELD PRIOR TO INSTALLATION. ROUTING SHOWN IS FOR GENERAL REFERENCE AND SHOWS A GENERALLY UNOBSTRUCTED PATH.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL CEILING TILES WITH CARE AND TAKE CAUTION NOT TO DAMAGE THE CEILING GRID. ALL CEILINGS REMAIN AND ARE NEW. AT THE COMPLETION OF WORK THE CONTRACTOR SHALL RE-INSTALL THE CEILING. ANY DAMAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, TO THE OWNER'S SATISFACTION.

KEYED NOTES:

ALL KEYED NOTES ARE REPRESENTED BY A '⬡' SYMBOL.

1. APPROXIMATE ROUTING OF NEW GENERATOR CONDUITS ABOVE CEILING.
2. LOCATION OF 36"X36"X12" NEMA 1 PULL BOX, INSTALLED FLUSH IN WALL, FOR CONDUIT TRANSITION.
3. LOCATION OF 36"X36"X12" NEMA 3R PULL BOX, INSTALLED SURFACE MOUNT ON WALL, FOR CONDUIT TRANSITION. LOCATE BOTTOM OF BOX 6" ABOVE FINISHED GRADE. PAINT BOX TO MATCH EXTERIOR WALL.
4. CONDUITS OUT TO GENERATOR ROUTED BELOW GRADE.
5. EXISTING 120/208-VOLT PANEL WITH SPARE 20A 1-POLE CIRCUIT '1LB-42' & '1LC-19' TO BE USED FOR GENERATOR BLOCK HEATER/BATTERY CHARGER AND SERVICE YARD LIGHTS AND RECEPTACLE.
6. BUILDING MAIN SERVICE DISCONNECT (ECB) TO BE CHANGED FROM 1,000A TO 600A; SEE RISER DIAGRAM.

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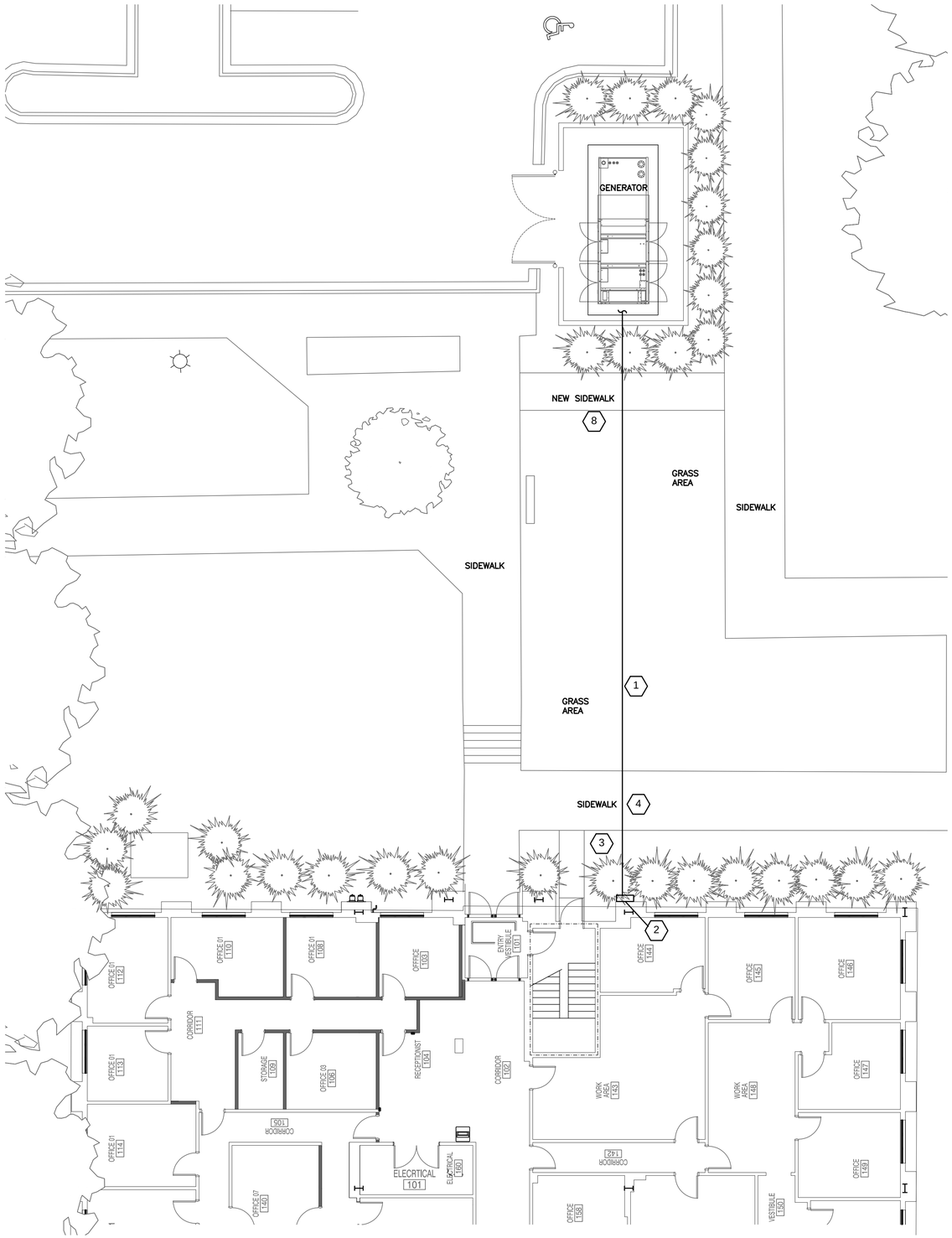
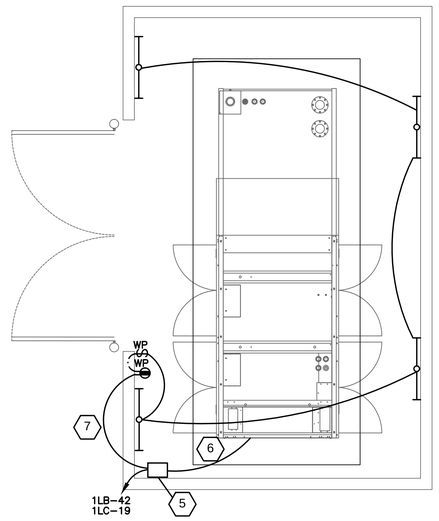


1 E200 PARTIAL ELECTRICAL SITE INSTALLATION PLAN
SCALE: 1/8" = 1'-0"



2 E200 ENLARGED GENERATOR SERVICE YARD PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING POLE LIGHTING CIRCUITS, IRRIGATION LINES AND ALL SITE UTILITIES PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRING ANY EXISTING SYSTEMS DAMAGED DURING THE COURSE OF WORK.

2. ALL CONDUIT AND BACK BOXES USED OUTSIDE IN THE GENERATOR SERVICE YARD SHALL BE SCH 40 PVC.

3, THE GRADE CHANGES APPROXIMATELY 5FT IN ELEVATION FROM THE BUILDING DOWN TO THE GENERATOR SERVICE YARD AT PARKING LEVEL. BUILDING IS AT APPROXIMATELY 18FT AND GENERATOR SERVICE YARD IS APPROXIMATELY 13FT.

4. CONDUIT SHALL BE RUN FROM GENERATOR TO BUILDING 3FT BELOW FINISHED GRADE WITH CAUTION TAPE 12" ABOVE CONDUIT IN SAME TRENCH.

5. CONTRACTOR SHALL USE CARE WHEN TRENCHING TO REMOVE SOD WITHOUT DAMAGE AND REPLACE IN SAME TRENCH LINE AFTER CONDUIT INSTALLATION AND BACKFILL. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXCESS DIRT, AT AN OFFSITE LOCATION DETERMINED BY THE CONTRACTOR, UPON COMPLETION OF WORK. COMPACT TRENCH TO 90% DURING BACKFILL PROCESS WITH "JUMPING JACK" MOTORIZED TAMP.

6. WALL MOUNT LIGHTS IN GENERATOR SERVICE YARD AT 8FT AFF.

KEYED NOTES:

ALL KEYED NOTES ARE REPRESENTED BY A ⬡ SYMBOL.

1. APPROXIMATE ROUTING OF NEW GENERATOR CONDUITS FROM BUILDING TO GENERATOR.
2. LOCATION OF 36"X36"X12" NEMA 3R PULL BOX, INSTALLED SURFACE MOUNT ON WALL, FOR CONDUIT TRANSITION. LOCATE BOTTOM OF BOX 6" ABOVE FINISHED GRADE. PAINT BOX TO MATCH EXTERIOR WALL.
3. GENERAL CONTRACTOR TO REMOVE BUSHES THIS LOCATION TO ALLOW WORK TO BE PERFORMED.
4. SIDEWALK IS APPROXIMATELY 4FT WIDE; FIELD COORDINATE CUTTING AND PATCHING FOR CONDUIT CROSSING WITH GENERAL CONTRACTOR. CUT AT NEAREST EXPANSION JOINT. TUNNEL CONDUITS BELOW SIDEWALK WITHOUT CUTTING IF POSSIBLE.
5. PROVIDE 8"X8"X4" PVC JUNCTION BOX WITH COVER TO ALLOW SPLITTING OF BRANCH CIRCUITS FOR GENERATOR BLOCK HEATER/BATTERY CHARGER AND SERVICE YARD LIGHTS/RECEPTACLE.
6. ROUTE 3/4" SCH 40 PVC W/ (5) #12 AWG CU'S FROM JUNCTION BOX TO GENERATOR FOR BLOCK HEATER AND BATTERY CHARGER POWER.
7. ROUTE 3/4" SCH 40 PVC W/ (3) #12 AWG CU'S FROM JUNCTION BOX TO RECEPTACLE AND LIGHTS.
8. NEW SIDEWALK TO BE INSTALLED AFTER CONDUIT INSTALLATION. FIELD COORDINATE WITH GENERAL CONTRACTOR.

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