

# RaceTrac - Oakdale Road - Store #140

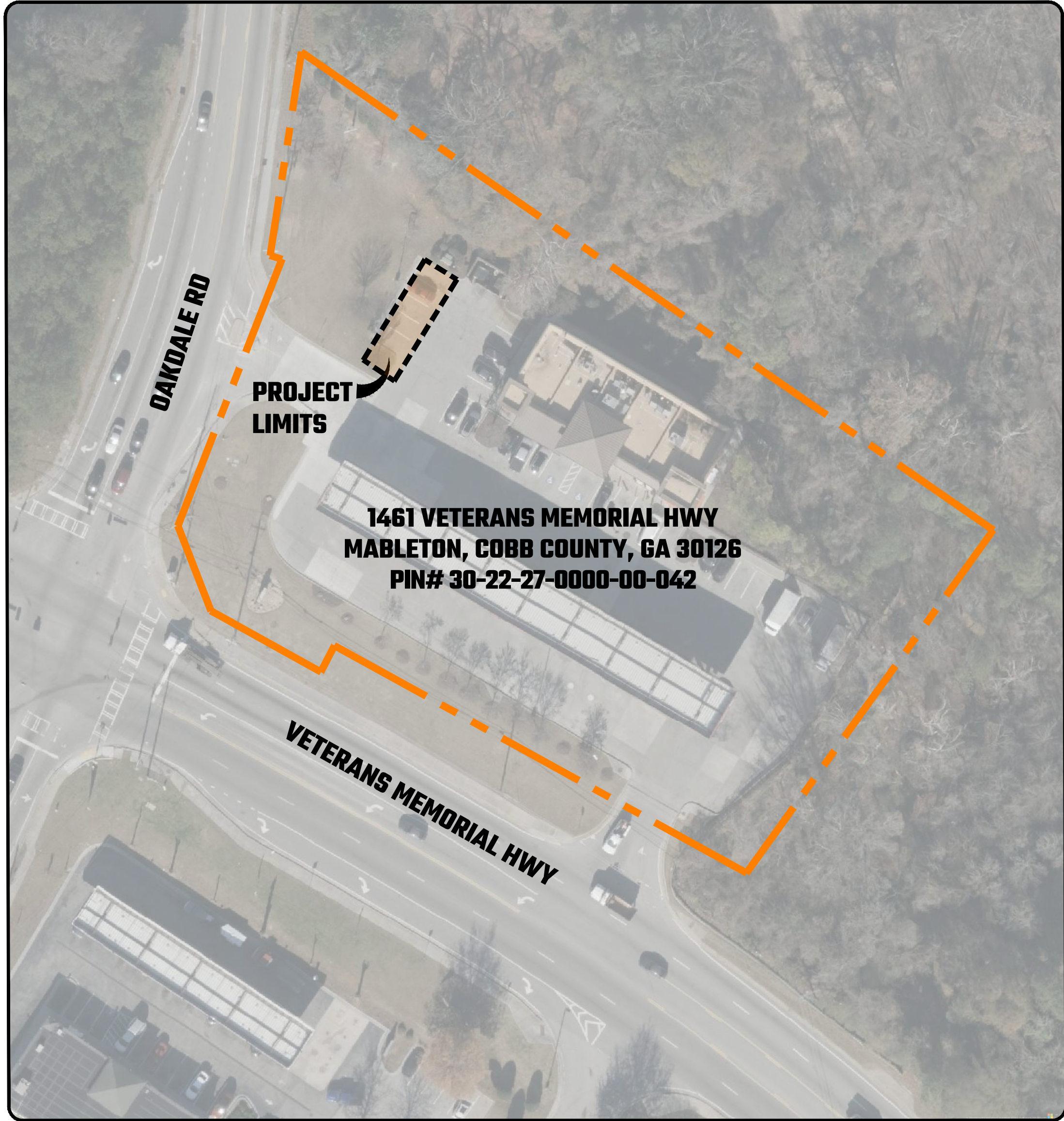
# EVC Program - Site Plan Package

## 1461 Veterans Memorial Hwy

## Mableton, Cobb County, GA 30126

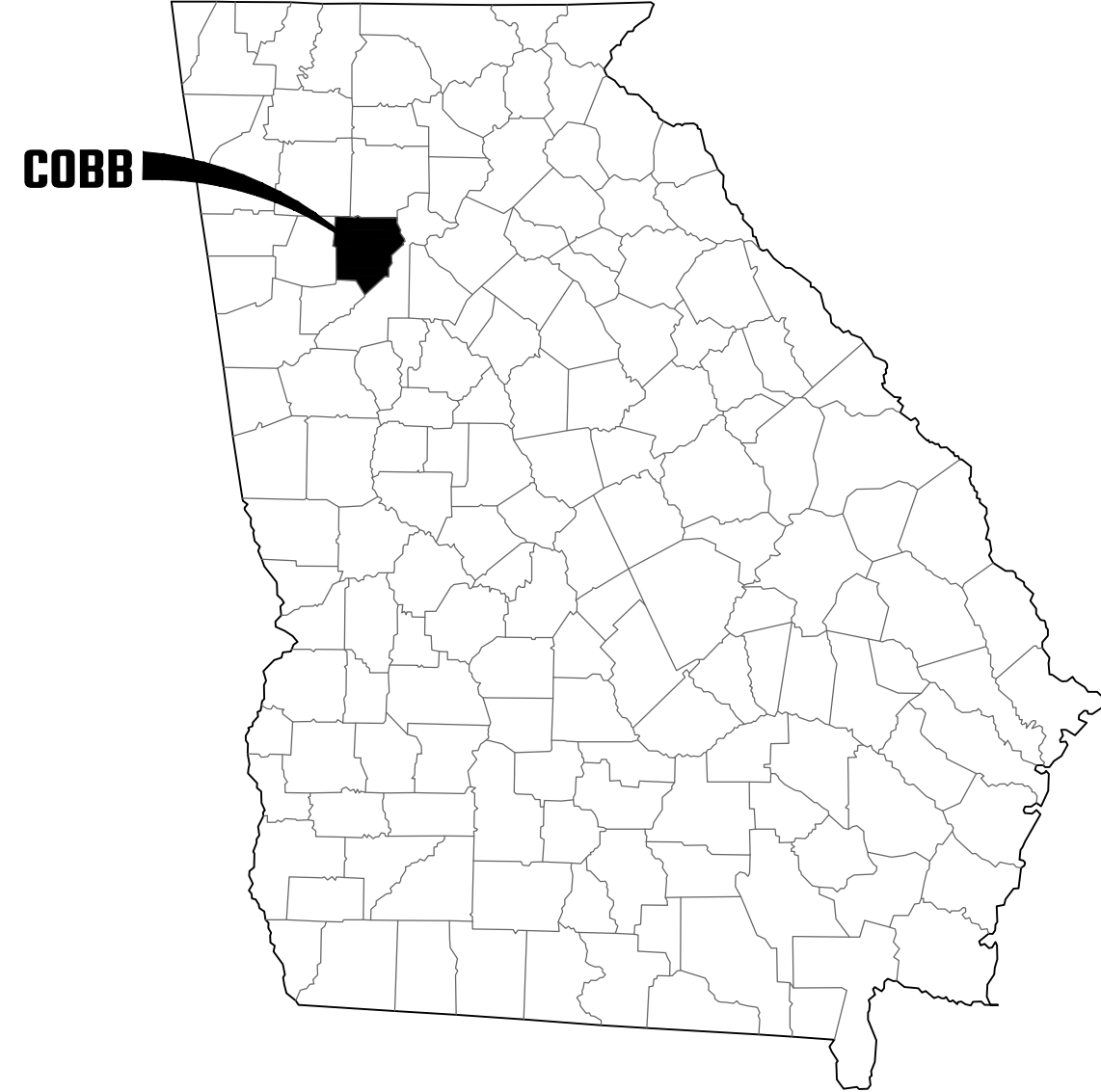
### LEGAL DESCRIPTION:

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 177 AND 282 OF THE 18TH DISTRICT, 2ND SECTION, COBB COUNTY, GEORGIA. PARCEL CONTAINS 1.379 ACRES MORE OR LESS.



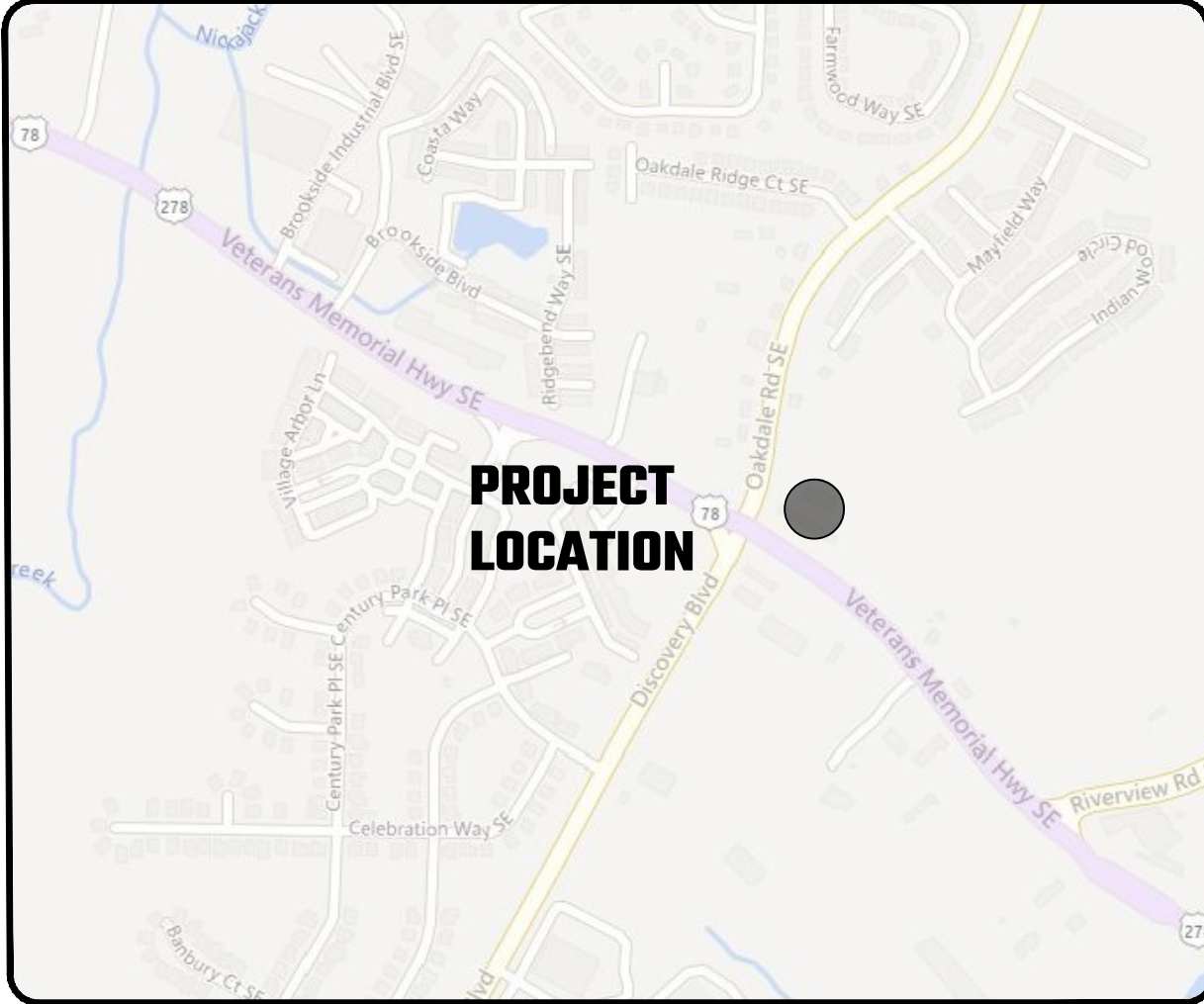
OVERALL SITE PLAN

NOT TO SCALE



COUNTY MAP

NOT TO SCALE



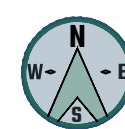
SITE LOCATION MAP

NOT TO SCALE



FLOOD ZONE MAP

NOT TO SCALE



**24-HOUR CONTACT**  
CHARLES GOLDMAN  
770.548.6322  
200 GALLERIA PARKWAY SE STE 900  
ATLANTA, GEORGIA 30339

**SITE LOCATION**  
LL 177 & 282 6TH DISTRICT  
ZONED: NS CONDITIONAL  
~2.10 DROSS ACRES



### UTILITY WARNING!!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

### OWNER



RACETRAC PETROLEUM, INC.  
200 GALLERIA PARKWAY SE, SUITE 900  
ATLANTA, GEORGIA 30339

CONTACT: CHARLIE GOLDMAN  
PH: 770.548.6322  
EMAIL: CGOLDMAN@RACTRAC.COM

### SURVEYOR



MRIC SPATIAL  
701 S. HOWARD AVENUE, SUITE 106-320  
TAMPA, FLORIDA 33606

CONTACT: MATTHEW KNEELAND, PSM  
PH: (813) 515-0821  
WWW.MRICSPATIAL.COM

### ENGINEER



PRIORITY ENGINEERING, LLC  
23208 EMERSON WAY  
LAND O LAKES, FLORIDA 34639

CONTACT: BON FITZGERALD, PE (EOR)  
PH: (813) 406-4234  
WWW.PRIORITY-ENG.COM  
PROJECT NO. 23-0013.031

### STRUCTURAL



MADISON INDUSTRIES  
1035 IRIS DRIVE  
CONYERS, GA 30094  
PH: 770.483.4401

### FLOODPLAIN NOTE:

THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X", ACCORDING TO FLOOD INSURANCE RATE MAP, MAP NO. 13067C0217J FOR COBB COUNTY, GEORGIA, DATED DECEMBER 5, 2018 AND ISSUED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. LINES SHOWN HAVE BEEN DIGITALLY TRANSLATED FROM FIRM DATABASE INFORMATION SUPPLIED BY THE FEMA MAP SERVICE CENTER [HTTPS://MSC.FEMA.GOV/](https://MSC.FEMA.GOV/).

### UTILITY & MUNICIPAL CONTACTS:

**STORMWATER:**  
CITY OF SMYRNA  
PUBLIC UTILITIES  
2800 KING STREET  
SMYRNA, GA 30080  
CONTACT: ERIC RANDALL  
PHONE: 678-431-2850

**ELECTRIC:**  
GEORGIA POWER  
2525 OLD ALABAMA RD,  
AUSTELL, GA 30168  
CONTACT: RYAN WALLS  
PHONE: 888-660-5890

**TELEPHONE:**  
AT&T  
4340 EAST WEST CONNECTOR  
SMYRNA, GA 30082  
CONTACT:  
PHONE: 770-437-1179

**WATER:**  
CITY OF SMYRNA  
PUBLIC UTILITIES  
2800 KING STREET  
SMYRNA, GA 30080  
CONTACT: ERIC RANDALL  
PHONE: 678-431-2850

**GAS:**  
ATLANTA GAS LIGHT  
ATLANTA, GA  
CONTACT:  
PHONE: 800-427-5463

### DRAWING INDEX:

SHEET No.	SHEET TITLE
C-100	COVER SHEET
C-101	SIGNATURE SHEET
C-102	GENERAL PROJECT NOTES
C-200	EXISTING SITE CONDITIONS
C-300	REMOVAL & SWPPP
C-301	SWPPP DETAILS
C-400	CIVIL SITE PLAN
C-500	PAVEMENT MARKINGS & SIGNAGE PLAN
D-100	SITE DETAILS
D-101	SITE DETAILS
D-102	SITE DETAILS
D-103	LANDSCAPE DETAILS
E-100	ELECTRICAL PROJECT NOTES
E-200	EQUIPMENT SPECIFICATIONS
E-300	ELECTRICAL SITE PLAN
E-400	ELECTRICAL NOTES & DETAILS
E-500	ELECTRICAL LOAD SHEETS
E-600	GENERAL SCHEMATIC

### PROJECT DESCRIPTION:

PROJECT SCOPE TO INCLUDE REMOVAL OF EXISTING INFRASTRUCTURE AS NECESSARY TO CONSTRUCT ELECTRIC VEHICLE CHARGING STATIONS AND ASSOCIATED INFRASTRUCTURE SUCH AS CONCRETE PAVEMENT, CONCRETE CURB AND GUTTER, PARKING FACILITIES, UTILITIES, CONDUIT, LANDSCAPING, SITE SIGNAGE AND OTHER IMPROVEMENTS TO SERVICE THE SITE.

### GEOTECHNICAL NOTE:

SEE REPORT PREPARED BY ECS SOUTHEAST DATED OCTOBER 7, 2008 FOR GEOTECHNICAL DATA.

### PROJECT SEQUENCE OF CONSTRUCTION:

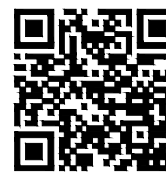
- SAWCUT AND REMOVE EXISTING PAVEMENT TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- CONTRACTOR TO INSTALL CONDUIT AND WIRING AS NOTED ON PLANS.
- CONTRACTOR TO INSTALL NEW ELECTRIC VEHICLE CHARGING STATION.
- CONTRACTOR TO INSTALL ELECTRIC VEHICLE CHARGING STATION PER ALL REQUIREMENTS OF GOVERNING UTILITY AGENCY, COUNTY & CITY.

### PERMITS REQUIRED FOR PROJECT

PERMIT	CITY/AGENCY	APPROVAL
CANOPY SIGN	CITY OF SMYRNA	
SITE PLAN REVIEW	CITY OF SMYRNA	
BUILDING	CITY OF SMYRNA	



PRIORITY ENGINEERING, LLC



Engineer's Seal



Certification

North

SCALE

Project

RACETRAC ELECTRIC VEHICLE CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL HWY  
MABLETON, GA 30126  
STORE: #140  
STORE NAME: OAKDALE ROAD

Sheet Name

COVER SHEET

ISSUED FOR PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CADD: BH

Checked By: KMA

PE Project No. 23-0013.031

Sheet No.

C-100

DRAWING NOTE: SCALE SHOWN IS MEANT TO BE 24" X 36" AND WILL SCALE INDETERMINATELY IF PRINTED ON ANY OTHER SIZE MEDIA. REVISIONS 1" X 1" NO REPRODUCTION SHALL BE MADE WITHOUT PRIOR CONSENT OF PRIORITY ENGINEERING, LLC. © 2024





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ELECTRONIC DOCUMENTS.

PRIORITY ENGINEERING LLC.  
23208 EMERSON WAY  
LAND O' LAKES, FLORIDA 34639

BON S. FITZGERALD, P.E. No. 049384

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS

SHEETS:

- C-100 COVER SHEET
- C-101 SIGNATURE SHEET
- C-102 GENERAL PROJECT NOTES
- C-200 EXISTING SITE CONDITIONS
- C-300 REMOVAL & SWPPP
- C-400 CIVIL SITE PLAN
- C-500 PAVEMENT MARKINGS & SIGNAGE PLAN
- D-100 SITE DETAILS
- D-101 SITE DETAILS
- D-102 SITE DETAILS



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PRIORITY ENGINEERING SOUTH, LLC  
501 W. EUCLID AVENUE  
TAMPA, FLORIDA 33602

THOMAS BERNARD, P.E. No. 049375

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS

SHEETS:

- E-100 ELECTRICAL NOTES
- E-200 EQUIPMENT SPECIFICATIONS
- E-300 ELECTRICAL SITE PLAN
- E-400 ELECTRICAL DETAILS
- E-500 ELECTRICAL LOAD SHEETS
- E-600 SWITCHGEAR DETAIL



PRIORITY ENGINEERING, LLC



Engineer's Seal

Certification

North

SCALE

Project

RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL  
HWY  
MABLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name

SIGNATURE SHEET

ISSUED FOR  
PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CADD: BH

Checked By: KMA

PE Project No. 23-0013.031

Sheet No.

C-101

DRAWING NOTE: SCALE SHOWN IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED  
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GENERAL NOTES

1. REGULATIONS - ALL CONSTRUCTION SHALL BE DONE IN A WORKMAN LIKE MANNER AND SHALL CONFORM TO ALL COUNTY, STATE AND FEDERAL REGULATIONS AND OR CODES INCLUDING BUT NOT LIMITED TO THE CURRENT CITY AND DOT LATEST REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES TO BEGIN WORK AND PAY ALL REQUIRED FEES ASSOCIATED WITH SAME.
2. STANDARD DETAILS AND SPECIFICATIONS - STATE, COUNTY AND CITY CONSTRUCTION DETAILS AND SPECIFICATIONS SHALL BE APPLIED TO THE APPROPRIATE AREAS OF THE PLANS, GENERALLY DIFFERENTIATED BY PROPERTY OWNERSHIP LINES OR INTENT OF THE DESIGN. ANY CONFLICTS BETWEEN GOVERNING STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. DATUM - UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD 89). HORIZONTAL DATA SHOWN HEREIN REFERS TO LOCAL STATE PLANE COORDINATE SYSTEM. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION BEGINS OR RESUMES.
4. CHANGES - ALL CHANGES SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
5. GUARANTEE - THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIAL SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
6. SHOP DRAWINGS - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. STRUCTURAL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE.
7. MAINTENANCE OF TRAFFIC (M.O.T.) - UNLESS OTHERWISE PERMITTED, THE CONTRACTOR SHALL MAINTAIN EXISTING PEDESTRIAN AND VEHICULAR TRAFFIC AND ACCESS AT ALL TIMES DURING CONSTRUCTION AND SHALL PROVIDE THE NECESSARY TEMPORARY PAVEMENT, BARRICADES, LIGHTING, SIGNS, FLAGMEN, ETC. FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL SUBMIT M.O.T. AND A.D.A. ACCESS PLANS TO THE ENGINEER FOR REVIEW AND CITY, COUNTY AND STATE APPROVAL OF WORK TO BE DONE WITHIN THEIR RIGHTS OF WAY. M.O.T. SHALL BE IN ACCORDANCE WITH A.D.A., M.U.T.C.D. AND LOCAL O.D.T. REGULATIONS.
8. RECORD DRAWINGS - THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. RECORD DRAWINGS MUST BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE AND BE REFERENCED TO THE DATUM SHOWN IN THE CONSTRUCTION PLANS. ANY UNMARKED UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE INCORPORATED INTO THE RECORD DRAWINGS. ALL UTILITIES MUST BE SHOWN IN THEIR AS-BUILT LOCATION.
9. RESPONSIBILITY - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND MATERIAL OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION IN OR AROUND THAT UTILITY. CALL STATEWIDE 811 DIG PRIOR TO ANY EXCAVATION. THE ENGINEER AND OWNER SHALL BE HELD HARMLESS AGAINST ALL CLAIMS OR DAMAGES.
10. RESTORATION - THE CONTRACTOR SHALL IMMEDIATELY REPAIR AND RESTORE EXISTING SITE FEATURES INCLUDING PAVEMENT, DRIVEWAYS, PIPES, FENCES, TRAFFIC CONTROL DEVICES, MAILBOXES AND PROPERTY CORNERS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. THE REPAIR AND RESTORATION SHALL CONFORM TO APPLICABLE STANDARDS AS GOVERNED.
11. OPEN TRENCHES - ALL OPEN TRENCHES AND HOLES SHALL BE PROPERLY MARKED AND BARRICADED TO INSURE THE SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC. NO OPEN TRENCHES OR HOLES SHALL BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT EXPRESSED PERMISSION FROM THE OWNER, ENGINEER AND REGULATING AGENCIES. ALL TRENCHES SHALL COMPLY WITH OSHA TRENCH SAFETY ACT PROVISIONS.
12. CONFLICTS - ANY CONFLICTING INFORMATION BETWEEN REGULATING AGENCIES AND THE CONSTRUCTION DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. AFFECTED CONSTRUCTION SHALL NOT COMMENCE OR RESUME UNTIL PERMISSION IS GRANTED BY THE ENGINEER OR OWNER.

CLEARING AND GRUBBING

1. CLEARING - CLEARING SHALL BE LIMITED TO THE CONSTRUCTION AREA AND/OR AS DIRECTED BY THE ENGINEER OR OWNER AND APPROVED BY THE CITY/COUNTY.
2. GRUBBING - ALL STUMPS, ROOTS, BURIED LOGS OR OTHER UNSUITABLE MATERIAL WITHIN THE LIMITS OF PAVEMENT CONSTRUCTION SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW FINISHED PAVEMENT ELEVATION AND REPLACED WITH CLEAN FILL.
3. DEBRIS REMOVAL - ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED. ANY MATERIAL RETAINED ON-SITE FOR MORE THAN 30 DAYS SHALL BE STORED IN CONTAINERS APPROVED BY THE ENGINEER AND COUNTY.
4. PROTECTION - THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING BUILDINGS, UTILITIES, STRUCTURES THAT ARE ABOVE OR BELOW GROUND AND SHALL HOLD THE ENGINEER AND OWNER HARMLESS AGAINST ALL CLAIMS OR DAMAGES.
5. LANDSCAPED AREAS - ALL LANDSCAPE PLANTING AREAS SHALL BE FREE OF BASE ROCK AND CONSTRUCTION DEBRIS AND EXCAVATED TO A MINIMUM DEPTH OF 30" OR TO CLEAN, NATIVE SOIL. REFER TO THE LANDSCAPE PLANS (BY OTHERS) FOR ADDITIONAL PLANTING INFORMATION AND DETAILS.
6. MUCK - ANY MUCK ENCOUNTERED WITHIN 10' OF THE PAVEMENT AND BUILDING AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL.
7. HARDPAN - HARDPAN ENCOUNTERED IN THE DETENTION AREA SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR FILL MATERIAL.

PAVING AND DRAINAGE

1. SUBGRADE - SUBGRADE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-100 (ASTM-1557) SPECIFICATIONS. ALL STUMPS, ROOTS, AND OTHER DELETERIOUS MATERIAL ENCOUNTERED SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW FINISHED ROAD GRADE AND REPLACED WITH CLEAN FILL COMPACTED TO NOT LESS THAN 100% OF MAXIMUM DENSITY. ALL SUCH MATERIAL SHALL BE REMOVED FROM WITHIN 8 FEET OF THE EDGE OF PAVEMENT. STABILIZED SUBGRADE SHALL CONFORM TO LOCAL REQUIREMENTS.
2. BASE - APPROVED SHALL CONFORM TO APPLICABLE SECTIONS OF THE LATEST LOCAL SPECIFICATIONS. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-100 (ASTM 1557) UNLESS SPECIFIED OTHERWISE. PRIME COAT MINIMUM APPLICATION RATE OF 0.10 GAL/S.Y. TACK COAT MINIMUM APPLICATION RATE OF 0.05 GAL/SY.
3. ASPHALT CONCRETE - STRUCTURAL AND SURFACE COURSES SHALL CONFORM TO APPLICABLE SECTIONS OF THE CURRENT LOCAL SPECIFICATIONS.
4. STRUCTURES - INLETS AND MANHOLES SHALL BE AS SPECIFIED ON THE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CURRENT LOCAL SPECIFICATIONS. INLET GRATES SHALL BE SECURED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
5. PIPES - DRAINAGE PIPES SHALL CONFORM WITH THE APPLICABLE SECTIONS OF THE CURRENT LOCAL SPECIFICATIONS.
6. REINFORCING STEEL - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A- 615 SPECIFICATIONS.
7. CONCRETE - CONCRETE SHALL DEVELOP A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CURRENT LOCAL SPECIFICATIONS.
8. PIPE BACKFILL - PIPE BACKFILL SHALL CONFORM TO THE APPLICABLE SECTIONS OF LOCAL SPECIFICATIONS. PIPE BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO NOT LESS THAN 100% MAXIMUM DENSITY AS DEFINED BY AASHTO T-100.
9. TRAFFIC CONTROL DEVICES - ALL TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS AND SIGNS SHALL BE AS DEFINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), LOCAL CITY SPECIFICATIONS AND/OR THE CURRENT O.D.T. SPECIFICATIONS, WHERE APPLICABLE. THERMOPLASTIC MATERIAL SHALL BE USED FOR FINAL PAVEMENT MARKINGS. IF PAVER BRICKS ARE USED IN MARKED PAVEMENT, BRICKS OF APPROPRIATE COLOR AND CONTRAST SHALL BE USED IN LIEU OF PAINT OR THERMOPLASTIC MATERIAL. PAINT MAY BE USED FOR TEMPORARY STRIPING.
10. WHERE CONNECTIONS TO AN EXISTING DRAINAGE SYSTEM ARE PROPOSED, SAID EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE CLEANED OF ALL SILT AND OTHER DEBRIS PRIOR TO SAID CONNECTIONS BEING MADE, AND WHERE THE EXISTING DRAINAGE SYSTEM INCLUDES DITCHES, SAID DITCHES SHALL BE CLEANED AND REMOVED, AS NECESSARY, TO RESTORE THEM TO AN APPROVED DESIGN SECTION. DRAINAGE SYSTEMS ARE TO BE CLEANED AND/OR GRADED TO THE POINT OF LEGAL POSITIVE OUTFALL.
11. ALL HANDICAP ACCESSIBLE RAMPS SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL ACCESSIBILITY GUIDELINES AND REGULATIONS. ANY MODIFICATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD. HANDICAP PARKING SIGNS SHALL BE PLACED A) BEHIND THE SIDEWALK OR B) ATTACHED TO BUILDING WALLS IN AREAS WHERE A SIDEWALK AND/OR BUILDING ABUTS THE STALL OR C) OUTSIDE THE TWO (2) FEET OVERHANG AREA WHERE WHEEL STOPS ARE NOT PROVIDED.
12. CONTRACTOR SHALL CONTACT CITY TRAFFIC DEPARTMENT FORTY- EIGHT (48) HOURS PRIOR TO CONSTRUCTION.
13. DAMAGES TO LODS OR ANY SIGNAL EQUIPMENT CAUSED BY CONSTRUCTION OF THIS PROJECT MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO THE CITY.

FIELD OBSERVATIONS AND TESTING

1. NOTIFICATION - THE CONTRACTOR SHALL NOTIFY THE ENGINEER, GOVERNMENT AND OTHER PERMITTING AGENCIES 48 HOURS PRIOR TO SCHEDULING FIELD OBSERVATIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO TEST THE COMPLETED WORK. CALL LOCAL 811 DIG PRIOR TO ANY EXCAVATION.
2. THE UNDERGROUND CONTRACTOR SHALL SUBMIT ALL RECORD DATA, SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CURB AND PAVEMENT CONSTRUCTION. ANY NECESSARY ADJUSTMENTS AT THIS TIME SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. DRAINAGE PIPES AND STRUCTURES SHALL BE INSPECTED BY THE ENGINEER AND COUNTY PRIOR TO BACKFILLING. ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW THE INVERT AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.
4. ALL TESTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE AND ARE TO BE PAID FOR BY THE CONTRACTOR.
5. THE BASE ROCK CHEMICAL AND SIEVE ANALYSIS AND THE ASPHALT MIX AND DESIGN CRITERIA SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
6. PROCTOR AND DENSITY TESTS FOR SUBGRADE AND BASE MATERIAL SHALL BE TAKEN AS DIRECTED BY THE ENGINEER. ASPHALT PAVING DENSITY TESTS SHALL BE TAKEN A MINIMUM OF ONE PER 500 S.Y.
7. DENSITY TEST FOR PIPE TRENCHES SHALL BE TAKEN AT THE PIPE SPRING-LINE AND AT MAXIMUM ONE FOOT (1') LIFTS AS MEASURED FROM THE TOP OF PIPE. THE TESTS SHALL BE TAKEN AT A MAXIMUM SPACING OF EVERY 300 FEET MEASURED FROM THE STRUCTURE OR AT LEAST ONE TEST AT THE CENTER OF THE PIPE SEGMENT BETWEEN TWO STRUCTURES IF LESS THEN 300 FEET. TESTS SHALL BE TAKEN ON ALL SIDES WITHIN FIVE (5') OF EACH STRUCTURE. THE TEST LOCATION AT THE STRUCTURE SHALL BE ON ALTERNATING SIDES OF THE STRUCTURE WITH EACH LIFT TESTED. THE LOCATION AND DEPTH OF ALL TESTS SHALL BE CLEARLY INDICATED IN THE DESCRIPTION AREA ON THE TEST REPORT OR ILLUSTRATED IN A MAP.
8. TESTING - TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. TESTING REQUIREMENTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, BACKFILL DENSITY, PIPELINE INTEGRITY (HYDROSTATIC PRESSURE) AND ANY OTHERS REQUIRED BY THE ENGINEER OR PERMITTING AGENCIES.

ABBREVIATIONS USED IN DRAWINGS

THE FOLLOWING ABBREVIATIONS ARE USED ON THESE PLANS:

@	AT (RATE OF)
&	AND
+	INCH
.	FOOT
#	NUMBER
AC	ASPHALT CONCRETE = ASPHALT PAVEMENT/HOT MIX ASPHALT PAVEMENT
ADA	AMERICANS WITH DISABILITIES ACT (BARRIER FREE ACCESS)
AGS	AGGREGATE BASE
ALT	ALTERNATE
APPROX.	APPROXIMATE/APPROXIMATELY
ARCH.	ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
B	BORING
BOY	BOUNDARY
BIT	BITUMINOUS
BF	BARRIER FREE
BFF	BANK FULL FLOOD
BLDG	BUILDING
BM	BENCHMARK
BOL	BOLLARD
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BOYW	BOTTOM OF WALL
C	CORE
CAP	CAPACITY
CB	CATCH BASIN
CENTL	CENTERLINE
CF	CUBIC FEET
CHANN.	CHANNEL
CJ	CONTROL JOINT
CLS	CRUSHED Limestone
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CD	CLEAN OUT
CDEF	COEFFICIENT
COL	COLUMN
COMM/COMM.	COMMUNICATIONS
CONC.	CONCRETE
CONN.	CONNECTION
COV.	COVER
CULV.	CULVERT
CVP	CORRUGATED PLASTIC PIPE
CY	CUBIC YARD
DIA/DIA.	DIAMETER
DI	DUCTILE IRON
DIM/DIM.	DIMENSION
DIP	DUCTILE IRON PIPE
DES/DES.	DESIRE
DEM/D/DEM.D.	DEMOLITION
DEPT.	DEPARTMENT
DMH	DROP MANHOLE
DS	DOWNSPOUT
E	EACH
EA	EAST
EE	EACH END
EG	EDGE OF GRAVEL
EH	ELECTRICAL HAND HOLE
ELEV.	ELEVATION
EM	EDGE OF METAL
ENG/ENG.	ENGINEER
ENT.	ENTRANCE
EQUIP.	EQUIPMENT
ES	END SECTION
EV	ELECTRIC VEHICLE
EVC	ELECTRIC VEHICLE CHARGING
EXCAV/EXCAV.	EXCAVATE
EX/EX.	EXISTING
EXPN	EXPANSION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDM	FOUNDATION
FDR	FULL DEPTH RECLAMATION
FF	FINISH FLOOR
FG	FINISH GRADE
FURN.	FURNISH
FP	FLOOD PLAIN
FT	FEET/FOOT
FTG	FOOTING
ELEV.	ELEVATION
EQUIP.	EQUIPMENT
GAL/GAL.	GALLON
GEN.	GENERAL
GOOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GIS	GEOGRAPHIC INFORMATION SYSTEM
GU	GUTTER
GV/GVA	GATE VALVE
GVL	GRAVEL
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
HP	HIGH POINT
HGL	HYDRAULIC GRADE LINE
HMA	HOT MIX ASPHALT PAVEMENT
HORIZ/HORIZ.	HORIZONTAL
HYD	HYDRANT
INT	INSTALL
LD	LIGHT DUTY
LF	LINEAR FEET
LP	LOW POINT
MAX/MAX.	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN/MIN.	MINIMUM
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NFV	NOT FIELD VERIFIED
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE = CONCRETE
PVC	POLYVINYL CHLORIDE
PR	PROPOSED
REP	REINFORCED CONCRETE PIPE
RY	REAR YARD
S	SOUTH
SAN	SANITARY SEWER
SBC	STABILIZED BASE COURSE
SESC	SOIL EROSION AND SEDIMENT CONTROL
SF	SQUARE FEET
SG	SUBGRADE
STM	STORM SEWER
SUE	SUBSURFACE UTILITY ENGINEERING
SY	SQUARE YARD
TA	TOP OF HMA PAVEMENT ELEVATION
TC	TOP OF PROPOSED CURB
TERS	TEMPORARY EARTH RETENTION SYSTEM
TOP	TOP OF PAD (CONCRETE)
TOW	TOP OF WALL
TP	TEST PIT
TPP/TYP.	TYPICAL
TW	TOP OF SIDEWALK
VB	VAPOR BARRIER
VCP	VITRIFIED CLAY PIPE
VERT/VERT.	VERTICAL
VIF	VERIFY IN FIELD
VLT	VAULT
VOL	VOLUME
W	WEST
WM	WATER MAIN
WTR	WATER
WWF	WELDED WIRE FABRIC

DEFINITIONS USED IN DRAWINGS

THE FOLLOWING DEFINITIONS ARE USED ON THESE PLANS:

ENGINEER	PRIORITY ENGINEERING, LLC
CITY	SMYRNA
COUNTY	COBB
STATE	GEORGIA
LOCAL O.D.T.	ATLANTA DEPARTMENT OF TRANSPORTATION
STATE O.D.T.	GEORGIA DEPARTMENT OF TRANSPORTATION
CLIENT	RACETRAC, INC.



PRIORITY ENGINEERING, LLC



Engineer's Seal



Certification

North

SCALE

Project

RACETRAC ELECTRIC VEHICLE CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL HWY  
MABLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name

GENERAL PROJECT NOTES

ISSUED FOR PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CADD: BH

Checked By: KMA

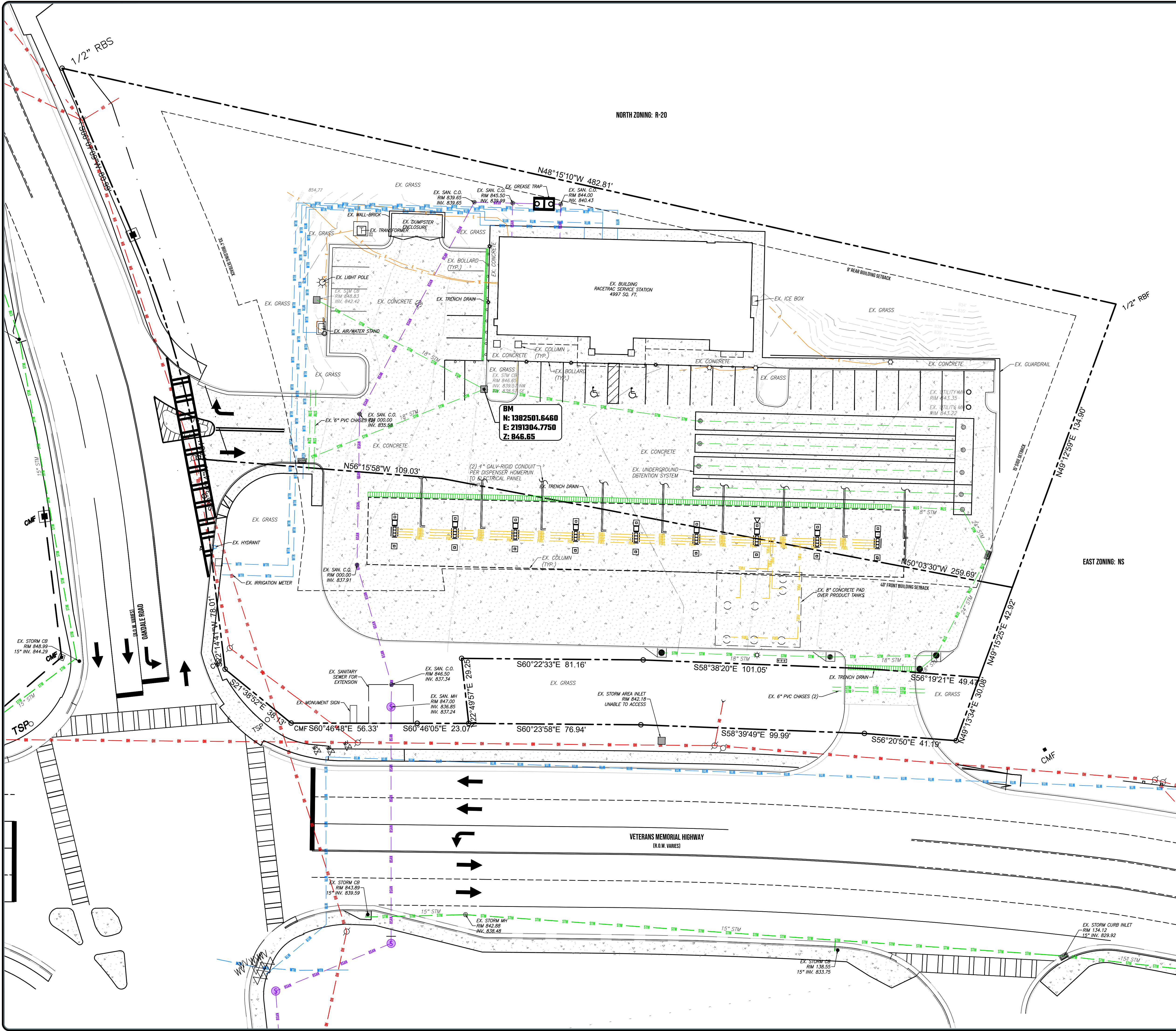
PE Project No. 23-0013.031

Sheet No.

C-102

DRAWING NOTE: SCALE SHOWN IS PLANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA EXCEPT 11" X 17" NO REPRODUCTION SHALL BE MADE WITHOUT PRIOR CONSENT OF PRIORITY ENGINEERING, LLC. © 2024





EXISTING UTILITY LEGEND

OH	OH	OH	OH	OH	EXISTING OVERHEAD UTILITY
OT	OT	OT	OT	OT	EXISTING OVERHEAD TELEPHONE
GAS	GAS	GAS	GAS	GAS	EXISTING GAS MAIN
COND	COND	COND	COND	COND	EXISTING CONDENSATION LINE
E	E	E	E	E	EXISTING UNDERGROUND ELECTRIC
T	T	T	T	T	EXISTING TELEPHONE LINE
FO	FO	FO	FO	FO	EXISTING FIBER OPTIC LINE
CATV	CATV	CATV	CATV	CATV	EXISTING CABLE TELEVISION
FUEL	FUEL	FUEL	FUEL	FUEL	FUEL LINE
IRR	IRR	IRR	IRR	IRR	EXISTING IRRIGATION LINE
STM	STM	STM	STM	STM	EXISTING STORM SEWER
WTR	WTR	WTR	WTR	WTR	EXISTING WATER MAIN, AS NOTED
12WTR	12WTR	12WTR	12WTR	12WTR	EXISTING WATER MAIN, 12-INCH
10WTR	10WTR	10WTR	10WTR	10WTR	EXISTING WATER MAIN, 10-INCH
8WTR	8WTR	8WTR	8WTR	8WTR	EXISTING WATER MAIN, 8-INCH
6WTR	6WTR	6WTR	6WTR	6WTR	EXISTING WATER MAIN, 6-INCH
FL	FL	FL	FL	FL	EXISTING FIRE LINE
SAW	SAW	SAW	SAW	SAW	EXISTING SANITARY SEWER
8SAN	8SAN	8SAN	8SAN	8SAN	EXISTING SANITARY SEWER, 8-INCH
6SAN	6SAN	6SAN	6SAN	6SAN	EXISTING SANITARY SEWER, 6-INCH
10SAN	10SAN	10SAN	10SAN	10SAN	EXISTING SANITARY SEWER, 10-INCH
FM	FM	FM	FM	FM	EXISTING SANITARY FORCEMAIN
REC	REC	REC	REC	REC	EXISTING RECLAMATION FORCEMAIN

NOTES

- BASE DRAWING PROVIDED BY CLIENT AND SUPPLEMENTED WITH FINAL TOPOGRAPHIC SURVEY BY MRC DATED JANUARY 30, 2024.
- DRAWING BASED ON NAD83 GEORGIA STATE PLANE COORDINATES SYSTEM, WEST ZONE, US FOOT.
- THIS SURVEY WILL NOT SHOW ALL EASEMENTS OF RECORD UNTIL AN UPDATED TITLE POLICY HAS BEEN FURNISHED TO THE SURVEYOR BY THE OWNER.
- ALL ELEVATIONS ARE RECORD/EXISTING ELEVATIONS.
- THE LOCATION OF THE EXISTING UTILITIES AS SHOWN WERE OBTAINED FROM CLIENT PROVIDED DOCUMENTS, MUNICIPAL AND UTILITY COMPANIES RECORDS. NO GUARANTEE CAN BE MADE REGARDING THE COMPLETENESS OR EXACTNESS OF THE UTILITIES LOCATION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY IN THE FIELD THE LOCATION OF ALL UTILITIES.
- SEE REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES DATED MARCH 3, 2010 FOR GEOTECHNICAL DATA.

BENCHMARK DATA:

BENCHMARK #1  
STORM CATCH BASINS  
ELEVATION 846.65 (NAVD83)

FLOODPLAIN NOTE:

THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X", ACCORDING TO FLOOD INSURANCE RATE MAP, MAP NO. 13067C0212J FOR COBB COUNTY, GEORGIA, DATED DECEMBER 5, 2018 AND ISSUED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. LINES SHOWN HAVE BEEN DIGITALLY TRANSLATED FROM FIRM DATABASE INFORMATION SUPPLIED BY THE FEMA MAP SERVICE CENTER [HTTPS://MSC.FEMA.GOV/](https://msc.fema.gov/).

EXISTING PARKING DATA:

STANDARD PARKING SPACES:	29
ADA PARKING SPACES:	2
TOTAL PROVIDED PARKING SPACES:	31

UTILITY & MUNICIPAL CONTACTS:

STORMWATER: CITY OF SMYRNA PUBLIC UTILITIES 2800 KING STREET SMYRNA, GA 30080 CONTACT: ERIC RANDALL PHONE: 678-431-2850	WATER: CITY OF SMYRNA PUBLIC UTILITIES 2800 KING STREET SMYRNA, GA 30080 CONTACT: ERIC RANDALL PHONE: 678-431-2850
ELECTRIC: GEORGIA POWER 2525 OLD ALABAMA RD, AUSTELL, GA 30168 CONTACT: RYAN WALLS PHONE: 888-660-5890	GAS: ATLANTA GAS LIGHT ATLANTA, GA CONTACT: PHONE: 800-427-5463
TELEPHONE: AT&T 4340 EAST WEST CONNECTOR SMYRNA, GA 30082 CONTACT: PHONE: 770-437-1178	



PRIORITY ENGINEERING, LLC



Engineer's Seal

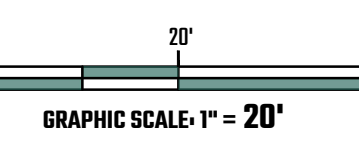


Certification

North



SCALE



Project

RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL  
HWY  
MAPLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name

EXISTING SITE CONDITIONS

ISSUED FOR  
PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date:

03/28/2024

Reviewed By:

BF

ENG/CADD:

BH

Checked By:

KMA

PE Project No.

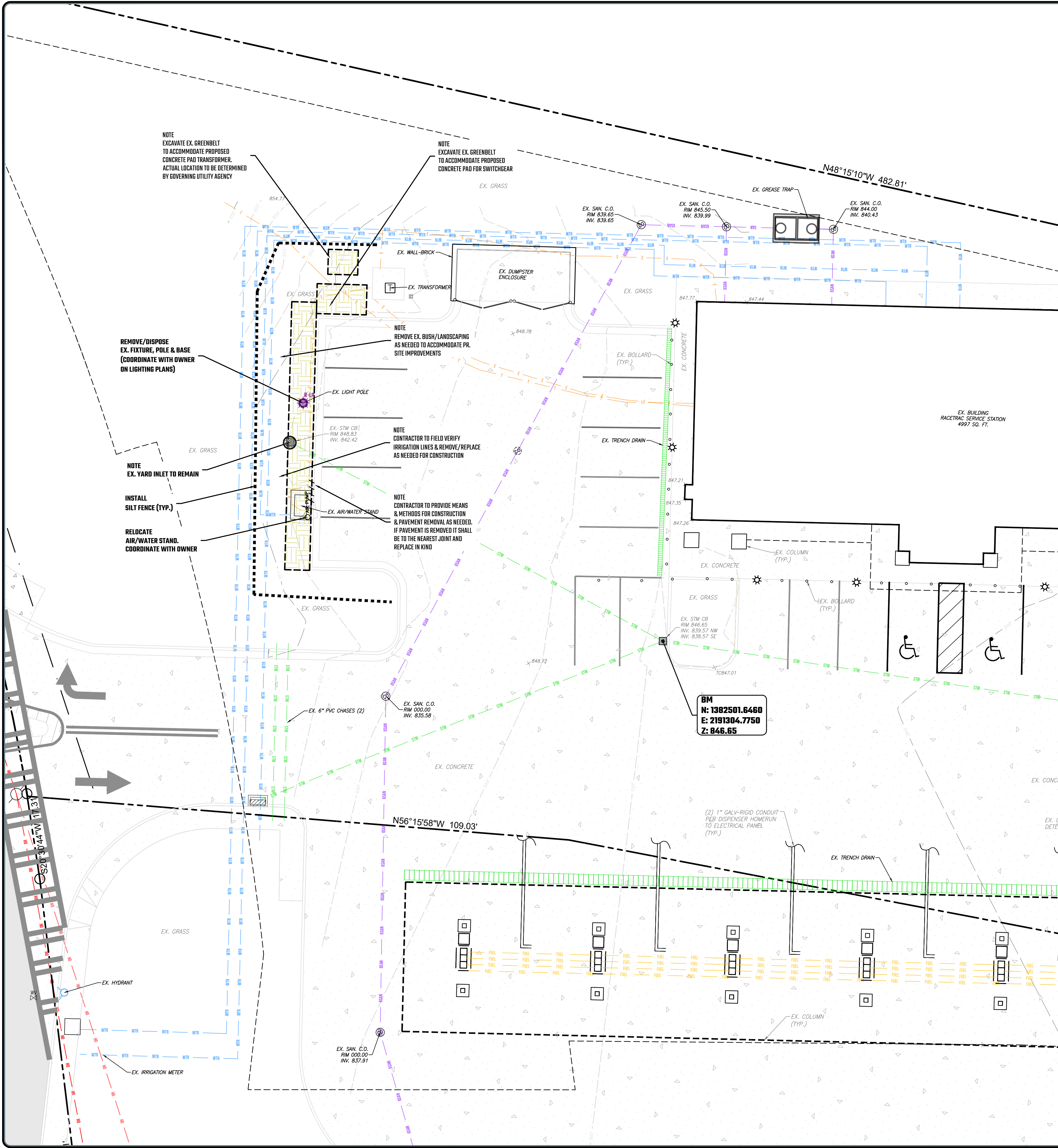
23-0013.031

Sheet No.

C-200

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NOTES:

- ALL CONSTRUCTION AT PROJECT SITE WILL USE BEST MANAGEMENT PRACTICES INCLUDING SOIL EROSION CONTROL MEASURES, AS ALSO REQUIRED BY LOCAL JURISDICTION, AND NOTED ON THE CONSTRUCTION DRAWINGS.
- CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
- ALL NEW WORK TO BE PERFORMED PER STANDARDS AND SPECIFICATIONS OF THE GOVERNING AGENCY.
- THE CONTRACTOR TO CALL 811 TO MARK EXISTING UTILITIES WITHIN THE WORK AREA. DO NOT EXCAVATE UNTIL EXISTING UTILITIES HAVE BEEN PAINTED IN THE FIELD AND ANY CONCERNS NEED TO BE BROUGHT TO THE ENGINEER'S ATTENTION.
- CONTRACTOR DISTURBANCE AREA IS ESTIMATED TO BE 0.01 ACRES.

EXISTING/RECORD UTILITIES NOTE

THE LOCATION OF THE EXISTING UTILITIES AS SHOWN WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS, FIELD OBSERVATIONS AND OWNER PROVIDED DRAWINGS. NO GUARANTEE CAN BE MADE REGARDING THE COMPLETENESS OR EXACTNESS OF THE UTILITIES LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IN THE FIELD THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES SHOWN, REFERENCED OR MARKED IN THE FIELD. CONTRACTOR TO REPORT ANY CONFLICTS IN THE FIELD TO THE ENGINEER. CONTRACTOR METHODS FOR UTILITY LOCATING SHALL AT A MINIMUM INCLUDE UTILIZING A UTILITY LOCATING COMPANY, HYDRO EXCAVATION, SOFT DIG AND POT HOLING.

BENCHMARK DATA:

BENCHMARK #1  
STORM CATCH BASINS  
ELEVATION 846.85 (NAVD88)

REMOVAL LEGEND

- NOTE: REMOVAL SHALL INCLUDE SURFACE ITEMS NOTED BELOW IN ADDITION TO UNDERLYING BASE, SUBGRADE, SUBGRADE AND DELETERIOUS MATERIAL TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- SAWCUT & REMOVE EXISTING ASPHALT
  - SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK
  - SAWCUT & REMOVE EXISTING CONCRETE PAVEMENT
  - CLEAR, GRUB & REMOVE LANDSCAPING/GREENBELT TO ACCOMMODATE EVC CONCRETE PAD
  - AREA OF GRADING/EARTHWORK
  - REMOVE CURB & GUTTER
  - REMOVE EXISTING FENCE
  - REMOVE EXISTING WALL
  - REMOVE EXISTING UTILITY AS NOTED
  - CAUTION!!!!!! EXISTING UTILITY IN AREA (SEE EXISTING/RECORD UTILITIES NOTE, THIS SHEET)
  - REMOVE/RELOCATE EXISTING MISC. ITEM AS NOTED ON PLANS
  - REMOVE EXISTING TREE
  - REMOVE EXISTING BUSH
  - ADJUST RIM AS NOTED ON GRADING PLAN
  - ADJUST EXISTING STRUCTURE RIM/VALVE AS NOTED ON THE GRADING PLAN
  - CONTRACTOR TO RECONSTRUCT/REPLACE ENTIRE STRUCTURE
  - REMOVE AND DISPOSE OF EXISTING CATCH BASIN
  - REMOVE AND DISPOSE OF EXISTING MANHOLE
  - REMOVE AND DISPOSE OF EXISTING SIGN, POST AND FOUNDATION.
  - REMOVE AND DISPOSE OF EXISTING BOLLARD.
  - REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURE, POLE AND BASE.
  - SOIL BORING LOCATION (SEE GEOTECHNICAL REPORT BY OTHERS)
  - FURNISH & INSTALL PAVEMENT INLET PROTECTION FILTER PER GOVERNING AGENCIES STANDARDS & SPECIFICATIONS
  - FURNISH & INSTALL SILT FENCE PER GOVERNING AGENCIES STANDARDS & SPECIFICATIONS

MAINTENANCE NOTES & REQUIREMENTS	EXCAVATION NOTES
ALL TEMPORARY & PERMANENT SOIL EROSION CONTROL MEASURE TO BE INSPECTED & MAINTAINED WEEKLY & AFTER EVERY STORM EVENT BY THE SELECTED CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE REGULAR INSPECTION & MAINTENANCE OF ALL SOIL EROSION & SEDIMENTATION CONTROL (SESC) MEASURES THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH CITY, COUNTY & STATE REQUIREMENTS. SITE OPERATOR SHALL MAINTAIN A RECORD OF PRECIPITATION EVENTS ON A WEEKLY BASIS & INDICATE IN MAINTENANCE SCHEDULE RECORDS WHEN PRECIPITATION EVENT TRIGGERS FURTHER EVALUATION & MAINTENANCE.	1. EXCAVATED SOILS SHALL BE UTILIZED TO BACKFILL & ROUGH GRADE BEHIND CURBS. 2. EXCESS EXCAVATED SOILS SHALL BE TRANSPORTED OFF SITE & DISPOSED IN A LEGAL MANNER.
PRECIPITATION OF 0.25 INCHES OR MORE IN 24 HOUR PERIOD SHALL BE RECORDED BY WEATHERUNDERGROUND OR LOCAL WEATHER STATION DATA.	RESTORATION NOTES
REINSTALL OR OTHERWISE REPLACE SESC MEASURES IF FOUND TO BE DEFICIENT OR DO NOT MEET THE WEATHERFUNCTION.	FOLLOWING FINAL GRADING CONTRACTOR SHALL INSTALL 4 INCHES OF TOPSOIL & SEED OF DISTURBED AREAS.
SEDIMENT & DEBRIS ACCUMULATIONS SHALL BE REGULARLY REMOVED FROM SITE ENTRANCES, CLEARED FROM SILT FENCE, & INLET FILTERS. SEDIMENT & DEBRIS SHALL NOT BE PERMITTED TO MIGRATE OUTSIDE OF THE DISTURBANCE LIMITS INDICATED ON THESE DRAWINGS. ANY SILT OR MUD TRACKED ON PAVED SURFACES OUTSIDE OF THE AREA OF DISTURBANCE SHALL BE REMOVED IN A MANNER THAT DOES NOT GENERATE AIRBORNE DUST.	FURNISH & INSTALL SOIL EROSION BLANKET ON ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 1V:1H. FURNISH & INSTALL HIGH VELOCITY SOIL EROSION BLANKET ON ALL DISTURBED AREAS WITH SLOPE STEEPER THAN 1V:2H.
DUST CONTROL ACTIVITIES SHALL BE PERFORMED ON AN AS-NEEDED BASIS (MINIMUM OF ONCE PER DAY), & SHALL CONSIST OF AT LEAST THE USE OF A WATER TRUCK.	
DUST CONTROL ACTIVITIES SHALL BE PERFORMED ON AN AS-NEEDED BASIS (MINIMUM OF ONCE PER DAY), & SHALL CONSIST OF AT LEAST THE USE OF A WATER TRUCK.	

EROSION CONTROL NOTES:

- EARTH DISTURBANCE IS NOT PERMITTED OUTSIDE THE NOTED DISTURBANCE LIMITS. DISTURBANCE IS NOT PERMITTED WITHIN THE FLOODPLAIN LIMITS.
- EARTH EXCAVATION FOR THIS PROJECT SHALL INCLUDE THE EXCAVATION FOR UNDERGROUND UTILITIES & SITE BALANCING TO REACH FINAL PAVEMENT SUBGRADE LEVELS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION & MAINTENANCE OF ALL SOIL EROSION & SEDIMENTATION CONTROL (SESC) MEASURES, INCLUDING DUST CONTROL.
- THE FOLLOWING MINIMUM SESC MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION & MAINTAINED UNTIL CONSTRUCTION IS COMPLETE & TURF IS ESTABLISHED:
- MUD MATS AT SITE ENTRANCE/EXIT POINTS TO MINIMIZE THE TRACKING OF DEBRIS/SOIL ONTO ROADWAYS OR NEIGHBORING PROPERTY. MUD MATS SHALL CONSIST OF LARGE COARSE AGGREGATE OVERLAYING A GEOTEXTILE SEPARATOR FABRIC.
  - STODPIED SOILS SHALL BE COVERED OR OTHERWISE PROTECTED FROM ERODING INTO OFFSITE AREAS.
  - THE CONTRACTOR SHALL ESTABLISH PERMANENT STABILIZATION OF ALL EXPOSED AREAS WITHIN 7 DAYS OF FINAL GRADING.
  - BURLAP &/OR STRAW BALES ARE NOT ALLOWED.
  - SEDIMENT TRAPS (I.E., SILT SACKS) SHALL BE INSTALLED AT EXISTING & NEWLY INSTALLED INLET STRUCTURES & SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
  - SILT FENCING SHALL BE INSTALLED ALONG THE PERIMETER OF THE DISTURBED LIMITS (SEE PLAN) & MAINTAINED.

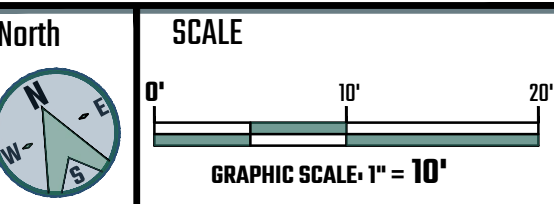
SEE SHEET C-301 FOR SWPPP DETAILS



Engineer's Seal



Certification



Project  
RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



Project Location  
1461 VETERANS MEMORIAL  
HWY  
MABLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name  
REMOVAL/DEMOLITION  
PLAN

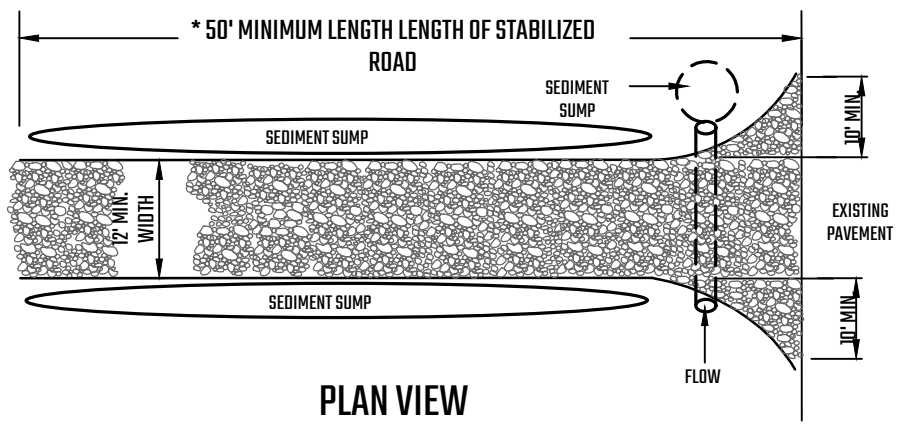
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PERMITS

Revisions	REV	ISSUED FOR	ISSUE DATE	BY

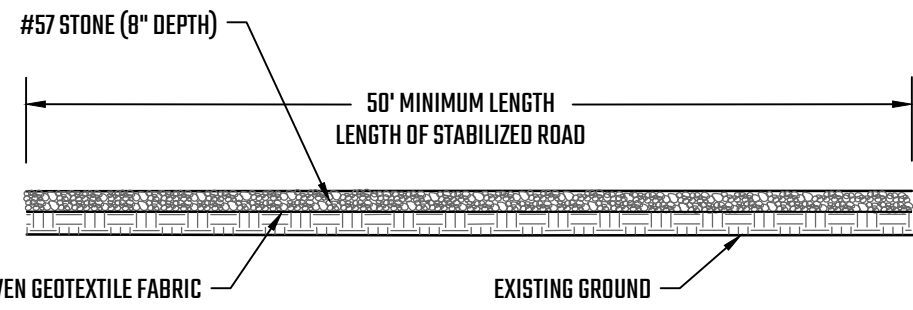
Date:	03/28/2024
Reviewed By:	BF
ENG/CADD:	BH
Checked By:	KMA
PE Project No.	23-0013.031
Sheet No.	C-300

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PLAN VIEW

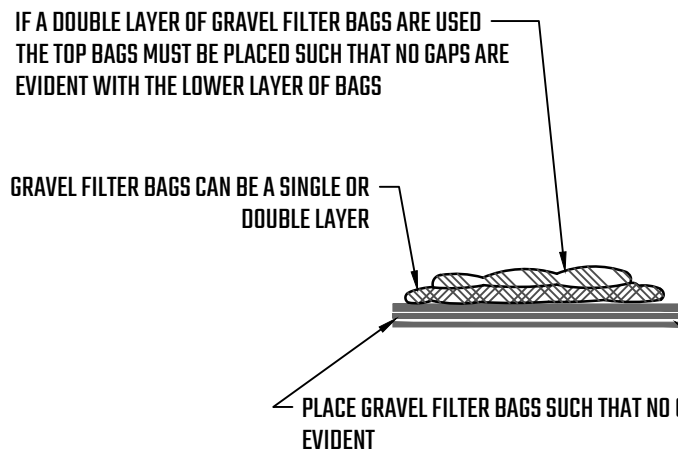
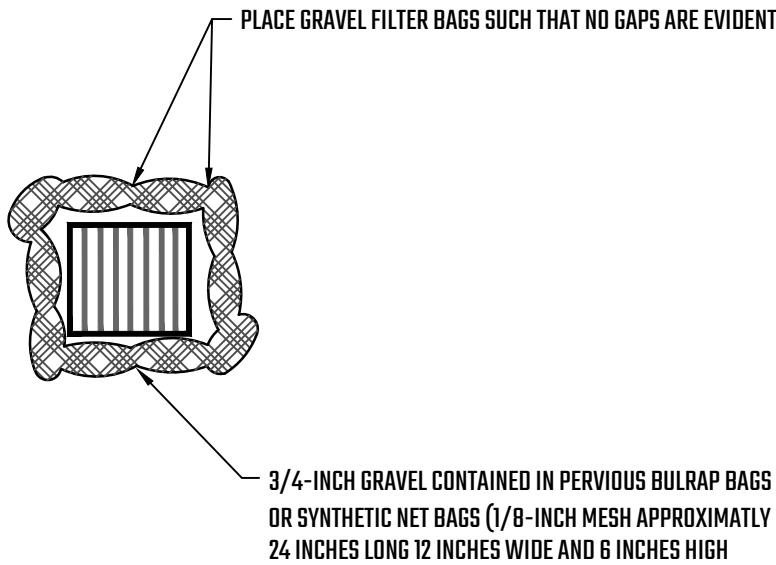


PROFILE

- NOTES:
1. ESTABLISH STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INITIATION OF SITE CONSTRUCTION ACTIVITIES.
  2. CARE SHOULD BE TAKEN TO PREVENT MATERIAL MOVEMENT INTO ADJACENT WETLANDS/WATERBODIES.
  3. CARE SHOULD BE TAKEN TO MAINTAIN EXISTING ROADSIDE DRAINAGE VIA CULVERT INSTALLATION, WITH SEDIMENT SUMP PLACED DOWNFLOW OF CULVERT.

### STABILIZED CONSTRUCTION ACCESS

NOT TO SCALE

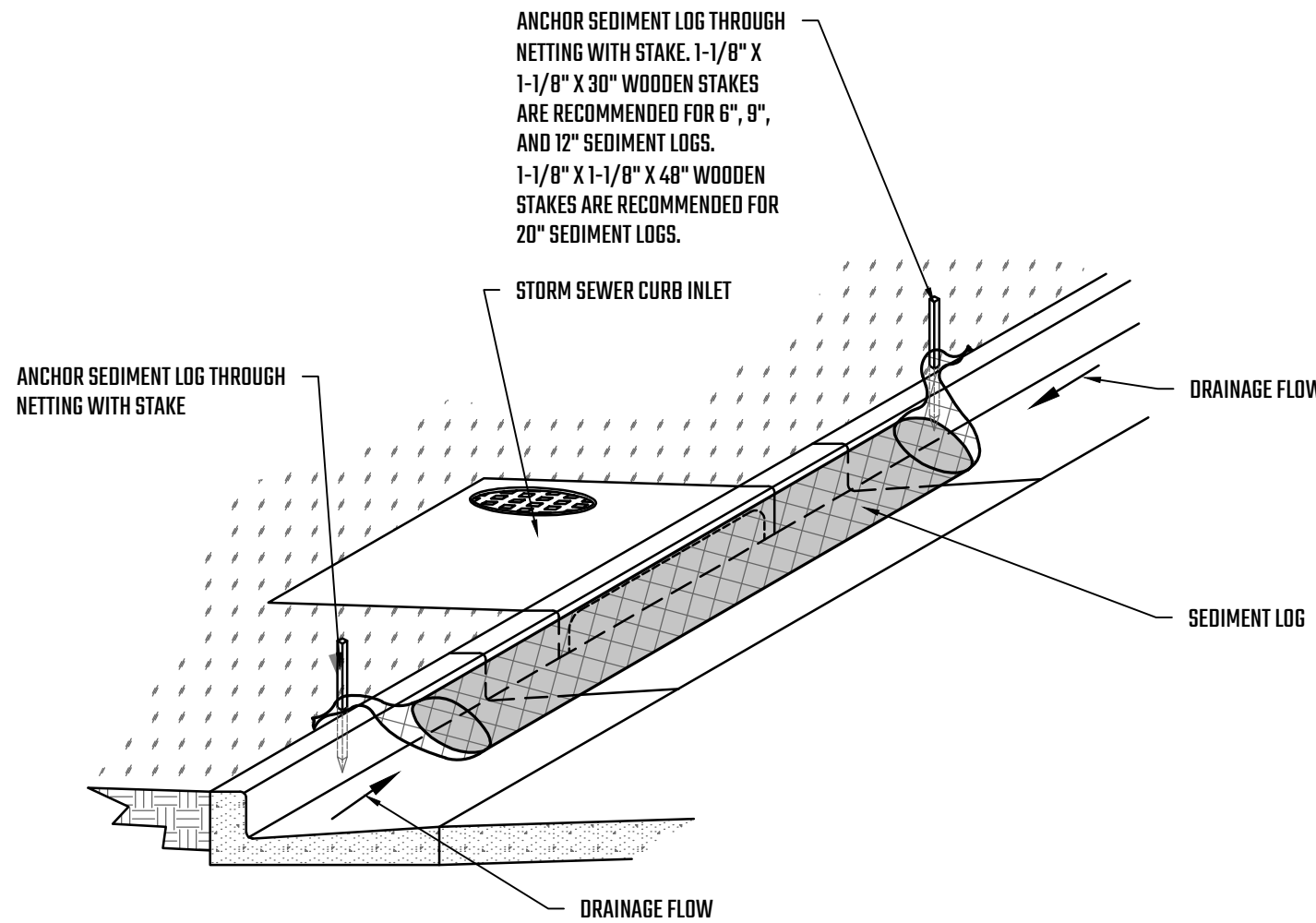


SIDE VIEW

### GRAVEL FILTER BAGS

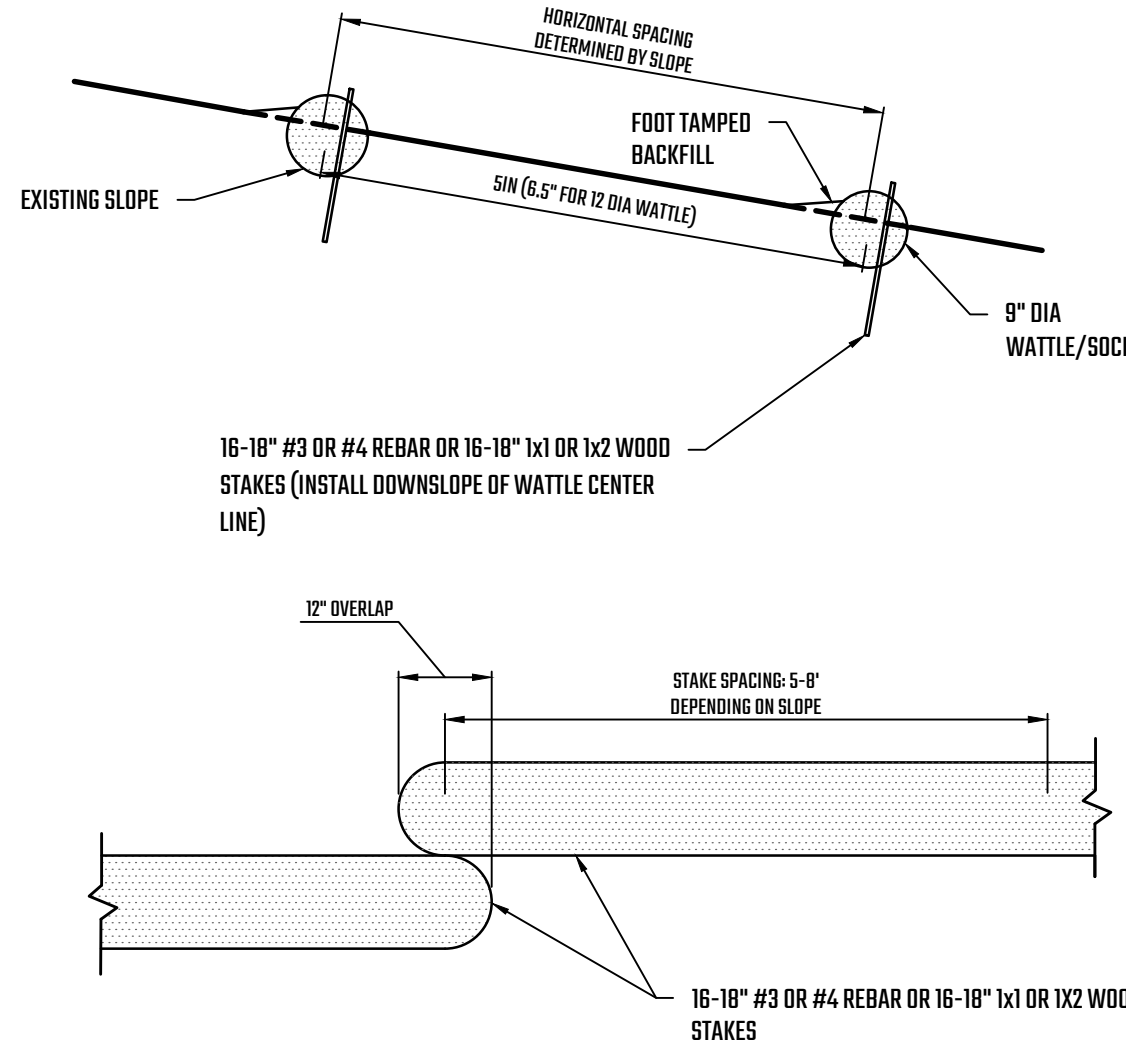
NOT TO SCALE

NOTE:  
GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND.



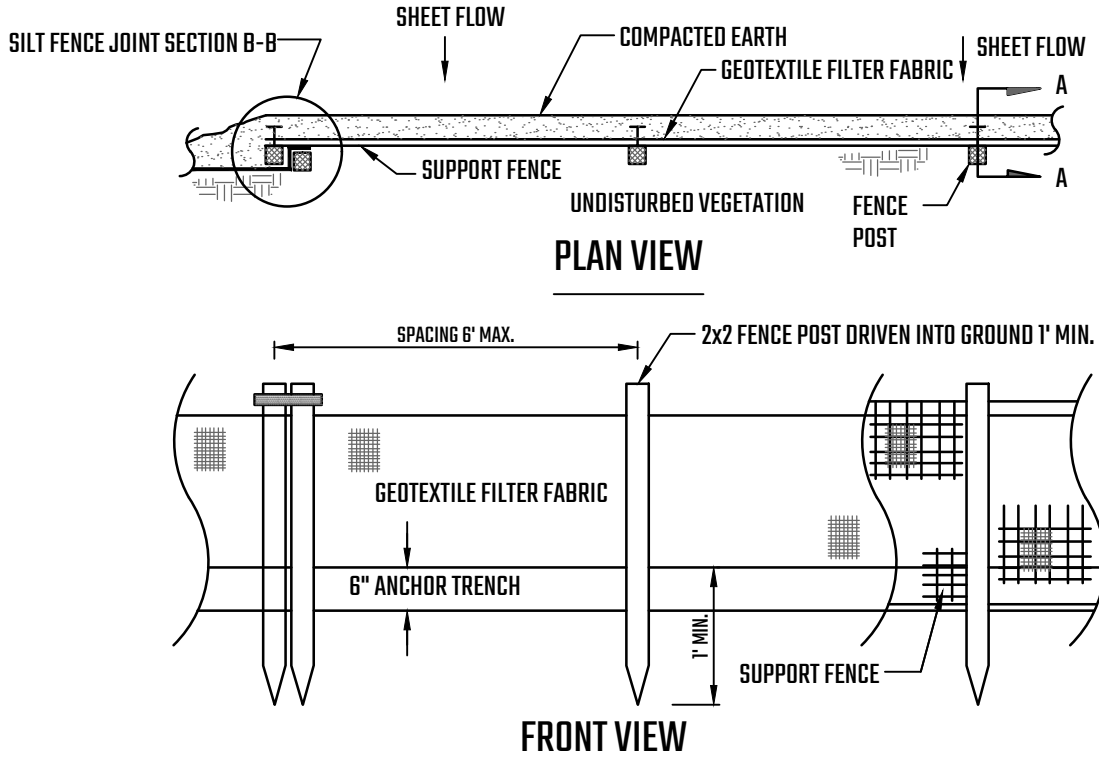
### SEDIMENT LOG INLET PROTECTION

NOT TO SCALE



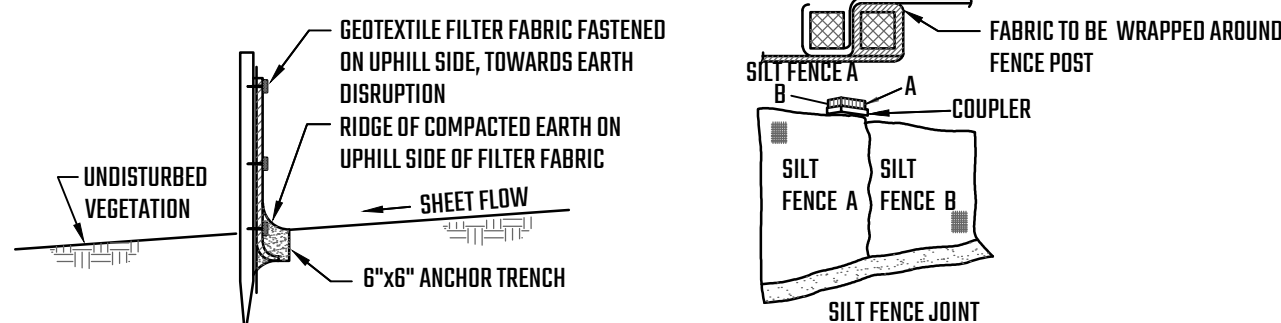
### WATTLE - DETAIL

NOT TO SCALE



PLAN VIEW

FRONT VIEW

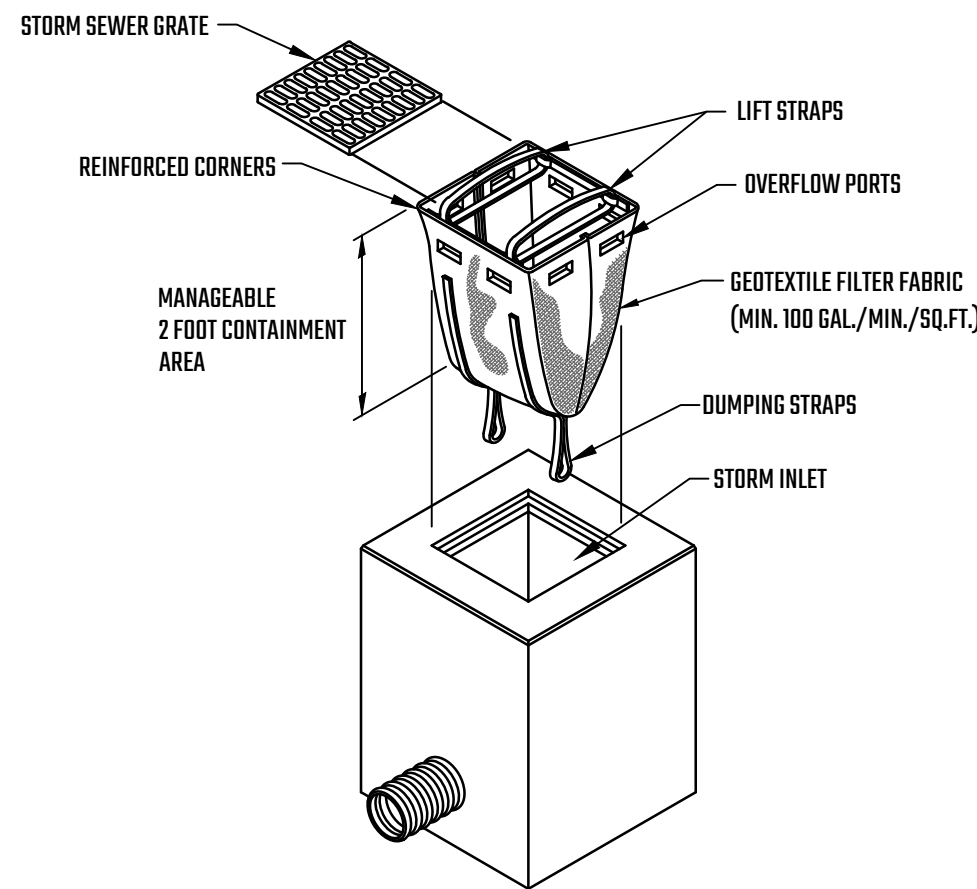


### SECTION A-A

### SECTION B-B

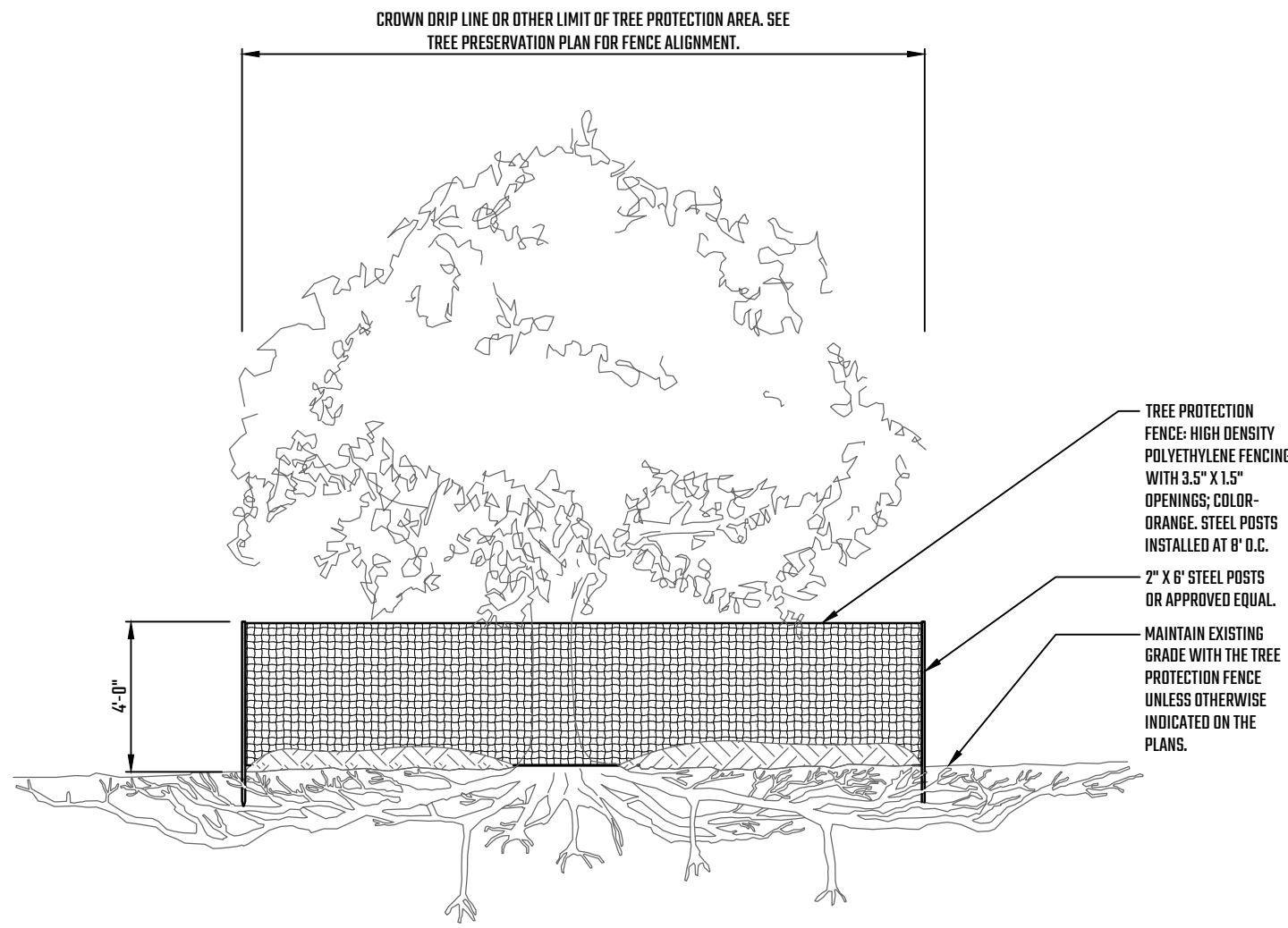
### SILT FENCE - DETAIL

NOT TO SCALE



### INLET FILTER - DETAIL

NOT TO SCALE



### TREE PROTECTION FENCING DETAIL

NOT TO SCALE



PRIORITY ENGINEERING, LLC



Engineer's Seal



Certification

North

SCALE

Project

RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL  
HWY  
MABLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name

SWPPP DETAILS

ISSUED FOR  
PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CADD: BH

Checked By: KMA

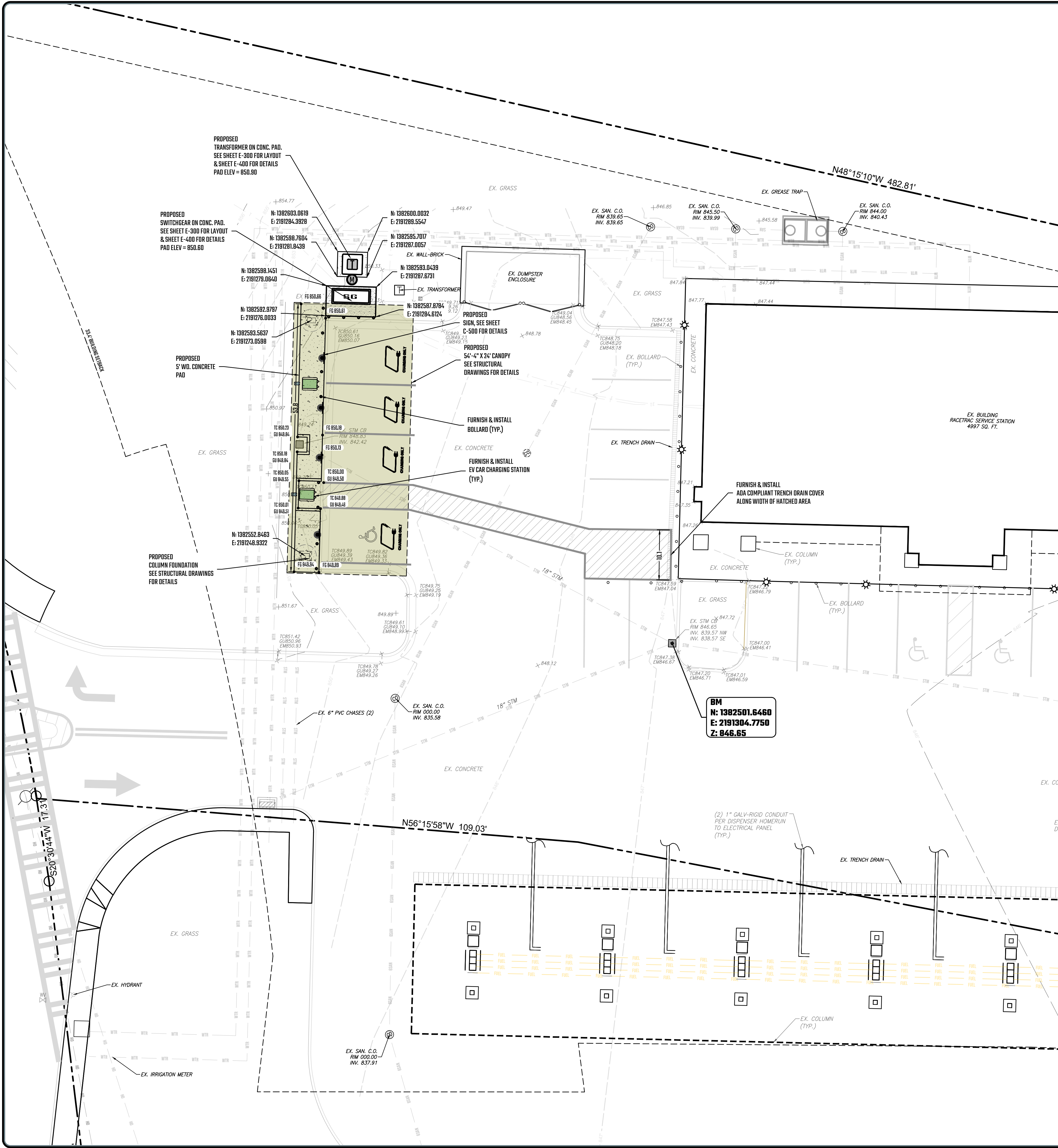
PE Project No. 23-0013.031

Sheet No.

C-301

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24-HOUR CONTACT

CHARLES GOLDMAN  
770.548.6322

700 GALLERIA PARKWAY SE STE 900  
ATLANTA, GEORGIA 30339

SITE LOCATION

LL 177 & 202 6TH DISTRICT  
ZONING: NS CONDITIONAL  
~2.18 GROSS ACRES

PAVING, GRADING & DRAINAGE LEGEND

	PROPERTY BOUNDARY LINE
	R.O.W. LINE
	SETBACK LINE
	EASEMENT (AS NOTED)
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED ELECTRICAL CONDUIT
	PROPOSED HMA PAVEMENT SECTION PER COUNTY STANDARDS
	PROPOSED CONCRETE SIDEWALK SECTION PER COUNTY STANDARDS
	PROPOSED CONCRETE PAVEMENT SECTION PER COUNTY STANDARDS
	PROPOSED CONCRETE PAD
	PROPOSED RIP-RAP SECTION PER COUNTY STANDARDS
	PROPOSED GRAVEL SECTION
	PROPOSED STANDARD CURB PER VILLAGE/CITY STANDARD
	PROPOSED REVERSE (SPILL OUT) CURB PER VILLAGE/CITY STANDARD
	PROPOSED ADA RAMP W/TRUNCATED DOME INSERT
	PROPOSED SPOT ELEVATION
	SLOPE DIRECTION (PAVEMENT)
	SLOPE DIRECTION (GREENBELT)
	PROPOSED UTILITY COMPANY PAD MOUNTED TRANSFORMER
	PROPOSED METER
	PROPOSED SWITCHGEAR ON CONCRETE PAD
	PROPOSED PULL BOX
	PROPOSED EV CHARGER W/BOLLARD

PR. PARKING DATA:

REQUIRED PARKING:  
5.5 STALLS PER 1,000 SF OF GFA  
= (4,987/1000) \* 5.5  
= 28 STALLS

PARKING PROVIDED:  
STANDARD STALLS: 24 STALLS  
ADA STALLS: 2 STALLS  
STL EVC STALLS: 3 STALLS  
ADA EVC STALL: 1 STALL  
TOTAL STALLS: 28 STALLS PROVIDED

IMPERVIOUS CALCULATION

TOTAL SITE AREA: 2.20 AC  
TOTAL EX. IMPERVIOUS: 1.20 AC  
DISTURBED AREA: 0.001 AC  
ADDITIONAL IMP. AREA: 0.001 AC (434 SF)  
TOTAL PR. IMPERVIOUS: 1.20 AC

PAVING & GRADING NOTES

- CONTRACTOR TO CALL GEORGIA DOT AT LEAST THREE WORKING DAYS PRIOR TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS.
- PROPOSED ELEVATIONS ARE SHOWN WHERE SIGNIFICANT GRADE CHANGES ARE ANTICIPATED. IF PROPOSED GRADES ARE NOT SHOWN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE WITH MIN. SLOPE OF 1.5%. LONGITUDINAL SLOPE ALONG GUTTER LINES SHALL BE 0.5% MIN.
- PRIOR TO INSTALLING ANY PAVEMENT LAYERS, THE CONTRACTOR SHALL REVIEW THE PROPOSED SITE GRADINGS WITH THE ENGINEER TO IDENTIFY AND RECTIFY ANY COMPLICATIONS.
- PROPOSED SIDEWALKS SHALL HAVE MIN. 1.0% AND MAX. 2.0% CROSS SLOPE AND A MAX. 5.0% RUNNING SLOPE UNLESS PARALLEL TO AN EXISTING DRIVE/ROAD.
- ADA ACCESSIBLE AREAS SHALL NOT EXCEED THE FOLLOWING SLOPES:  
RAMPS - 1:12 (8.3%) MAX.  
DRIVES - 1:20 (5.0%) MAX.  
PARKING - 1:50 (2.0%) MAX.  
CROSS SLOPES - 1:50 (2.0%) MAX.
- CONTRACTOR SHALL ADJUST ALL UTILITY RIMS LOCATED WITHIN THE WORK LIMITS AS NECESSARY TO BE FLUSH WITH THE PROPOSED FINISHED SURFACE. THIS INCLUDES ALL STORM MANHOLES, CATCH BASINS, CLEANOUTS, SANITARY MANHOLES AND CLEANOUTS, WATER MAIN MANHOLES, GATE VALVES, AND BOXES OR ANY OTHER UTILITY RIMS OR BOXES.
- WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT DESIGNATED TO REMAIN, MATCH ELEVATIONS UNLESS INDICATED OTHERWISE ON THE PLANS.
- ADJUST GUTTER PAN FROM SPILL IN TO SPILL OUT AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE AND AS INDICATED ON PLANS.
- ADJUST ELEVATION OF CURB REPAIRS AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE.
- TAPER CURB HEIGHT TO 0" IN 5' WHEN ABUTTING TO EX. PAVEMENT WITHOUT CURB.
- NEW PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS-SECTION INDICATED ON THE PLANS OR REFERRED BY A GEOTECHNICAL ENGINEER.
- MATCH EXISTING ELEVATIONS WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENTS OR OTHER FIXED OBJECTS.
- CONTRACTOR SHALL MATCH EXISTING STRIPING PATTERNS UNLESS OTHERWISE SHOWN ON THE PLANS. CONTRACTOR SHALL DOCUMENT EXISTING STRIPING PATTERN PRIOR TO REMOVAL OF ANY PAVEMENT.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT TO PROVIDE POSITIVE SITE DRAINAGE. WATER PONDING AND BIRD BATHS SHALL BE CORRECTED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- NEW AGGREGATE BASE REQUIRED SHALL BE ABOUT 200A CRUSHED LIMESTONE MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND/OR FILL FOR ESTIMATING AND CONSTRUCTION AND SHOULD ALERT THE ENGINEER OF ANY EXCESSIVE CUT AND/OR FILL, ESPECIALLY IF ADDITIONAL CUT AND/OR FILL WILL BE REQUIRED DUE TO POOR EXISTING SOIL CONDITIONS DISCOVERED DURING EARTHWORK OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL / SOILS REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION AND FULLY IMPLEMENT RECOMMENDATIONS GIVEN THEREIN.
- SUBGRADE SOIL FOUND TO BE UNSUITABLE SHALL BE RECONDITIONED OR REPLACED AS DIRECTED BY THE ENGINEER, INCLUDING THE NECESSARY FINE GRADING TO ENSURE THAT MINIMUM SPECIFIED PAVEMENT THICKNESS IS ACHIEVED.

SEE SHEET C-500 FOR PAVEMENT  
MARKINGS DIMENSIONS & SIGNAGE  
LOCATION



PRIORITY ENGINEERING, LLC



Engineer's Seal

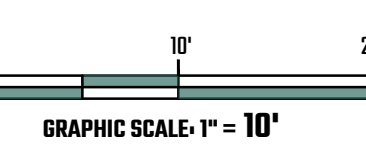


Certification

North



SCALE



Project

RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL  
HWY  
MAPLETON, GA 30126  
STORE- #140  
STORE NAME- OAKDALE ROAD

Sheet Name

CIVIL SITE PLAN AND  
INSTALLATION

ISSUED FOR  
PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CAOD: BH

Checked By: KMA

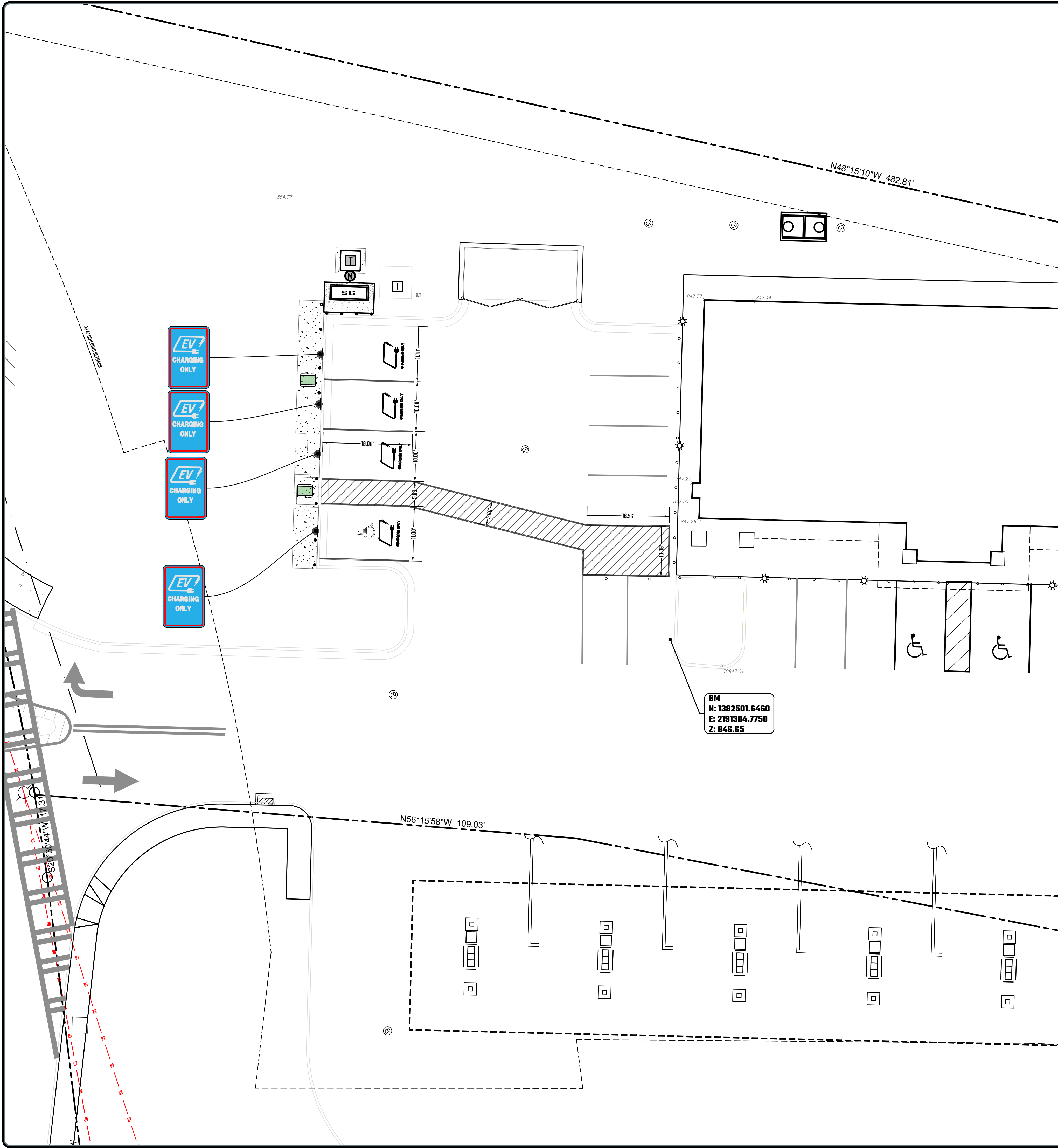
PE Project No. 23-0013.031

Sheet No.

C-400

DRAWING NOTE: SCALE SHOWN IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED  
ON ANY OTHER SIZE PAPER MEASURING 11" X 17"  
NO REPRODUCTION SHALL BE MADE WITHOUT PRIOR CONSENT OF PRIORITY ENGINEERING, LLC.  
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PAVEMENT MARKINGS & SIGNAGE LEGEND

- PROPOSED 24" WHITE STOP BAR (YELLOW IN CONCRETE AREAS)
- PROPOSED 4" THICK SOLID YELLOW LINE
- PROPOSED 12" WHITE SPECIAL EMPHASIS CROSSWALK MARKINGS PER CITY/COUNTY/STATE STANDARDS
- PROPOSED HATCH MARKINGS @ 45° & 38" O.C.
- PROPOSED BLUE PAINT ADA COMPLIANT BARRIER FREE PARKING LOGO
- PROPOSED PAINTED ARROWS
- PROPOSED SIGN ON POST IN GREENBELT AS INDICATED ON PLANS
- PROPOSED SIGN ON POST IN BOLLARD AS INDICATED ON PLANS
- PROPOSED STALL COUNT

PR. PARKING DATA:

REQUIRED PARKING:  
5.5 STALLS PER 1,000 SF OF GFA  
= (4,887/1000) \* 5.5  
= 28 STALLS

PARKING PROVIDED:  
STANDARD STALLS: 24 STALLS  
ADA STALLS: 2 STALLS  
STD. EVC STALLS: 3 STALLS  
ADA EVC STALL: 1 STALL  
TOTAL STALLS: 28 STALLS PROVIDED

SIGN NOTE:

ELECTRIC VEHICLE CHARGING STATION SIGNS TO BE 12" X 15".



PRIORITY ENGINEERING, LLC



Engineer's Seal

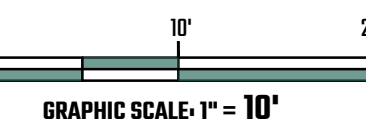


Certification

North



SCALE



Project

RACETRAC ELECTRIC VEHICLE CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL HWY  
MABLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name

PAVEMENT MARKING & SIGNAGE PLAN

ISSUED FOR PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CAAD: BH

Checked By: KMA

PE Project No. 23-0013.031

Sheet No. C-500

DRAWING NOTE: SCALE SHOWN IS HEAVY FOR 24" X 36" AND WILL SCALE INACCURATELY IF PRINTED ON ANY OTHER SIZE PAPER MEASURED UP TO 36" X 48" NO REPRODUCTION SHALL BE MADE WITHOUT PRIOR CONSENT OF PRIORITY ENGINEERING, LLC. © 2024







## GENERAL CONCRETE PAVEMENT NOTES

- REVIEW AND VERIFY ALL AS-BUILT CONDITIONS WHICH AFFECT NEW CONSTRUCTION PRIOR TO SUBMISSION OF SHOP DRAWINGS AND ANY FABRICATION.
- INDUSTRY STANDARDS GOVERNING THIS WORK ARE OF THE LATEST ISSUE AT THE DATE OF THIS DRAWING RELEASE.
- ENSURE STORAGE, HANDLING, PREPARATION, INSTALLATION, ETC. OF ALL MATERIALS ARE IN ACCORDANCE WITH MANUFACTURERS' / VENDORS' PRINTED RECOMMENDATIONS AND INSTRUCTIONS.

## PAVEMENT SUBGRADE AND BASE NOTES

- ENSURE TESTING AGENCY VERIFIES THE SUBGRADE IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. RECOMPACT SOFT AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER. TESTING AGENCY TO PROVIDE A LETTER REPORT TO THE OWNERS REPRESENTATIVE STATING THAT THE SUBGRADE HAS BEEN PROPERLY COMPACTED.
- ENSURE TESTING AGENCY EVALUATES THE SUBGRADE BY PROOF-ROLLING. PROOF ROLLING TO BE DONE BY A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR OTHER EQUIVALENTLY WHEELED VEHICLE ACCEPTABLE TO THE TESTING AGENCY. REPAIR SOFT AREAS THAT DEPRESS DEEPER THAN 1/2 INCH AS DIRECTED BY THE TESTING AGENCY. TESTING AGENCY TO PROVIDE A LETTER REPORT TO THE OWNERS REPRESENTATIVE STATING THE SUBGRADE HAS BEEN PROOF-ROLLED AND IS ACCEPTABLE. \*\* DO NOT PROOF-ROLL ON TOP OF OR WITHIN 5 FEET OF THE EDGE OF THE UNDERGROUND STORAGE TANK LOCATIONS.
- IF APPLICABLE, THIS PROCESS SHOULD BE IMPLEMENTED AFTER COMPLETION OF THE ROUGH GRADING AND SHOULD BE REPEATED BEFORE THE PLACEMENT OF THE SLAB.
- IF RUTTING OR PUMPING IS EVIDENT AT ANY TIME DURING PREPARATION OF THE SUBGRADE, SUBBASE, BASE, ROLLING, OR SLAB PLACEMENT, CORRECTIVE ACTION SHOULD BE TAKEN. FULL SOI SUPPORT HAS BEEN ACHIEVED IF THE ROLLED AREA IS OBSERVED TO BE FIRM AND UNWEIGHING, WITH NO DEPRESSIONS GREATER THAN 1/2 IN. RUTTING NORMALLY OCCURS WHEN THE SURFACE OF THE BASE OR SUBBASE IS WET, GREATER THAN THREE PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT, AND THE UNDERLYING SOILS OR SUBGRADE ARE FIRM. PUMPING NORMALLY OCCURS WHEN THE SURFACE OF THE BASE OR SUBBASE IS DRY AND THE UNDERLYING SOILS ARE WET.

- REPAIRS SHOULD INCLUDE, BUT NOT BE LIMITED TO, RAKING SMOOTH OR CONSOLIDATING WITH SUITABLE COMPACTION EQUIPMENT.
- AGGREGATE BASE MATERIAL:
  - COARSE AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES. USE ASTM D448, NO. 487, 57 OR 67 BLEND ONLY IF NOTED OR ALLOWED.
  - FINE AGGREGATE BASE: CLEAN SCREENINGS ASTM D 448, NO. 10 WITH 6% TO 12% PASSING NO. 200 SIEVE.
- AGGREGATE BASE MATERIAL INSTALLATION:
  - COMPACT COARSE AGGREGATE BASE TO FINAL THICKNESS SHOWN IN LAYERS NOT EXCEEDING 6 INCHES, WITH MINIMUM OF 2 PASSES PER LAYER WITH A VIBRATORY COMPACTOR.
  - COMPACT BASE TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
  - CHOP-OFF TOP SURFACE OF COARSE AGGREGATE BASE WITH FINE AGGREGATE BASE MATERIAL DUE TO THE FOLLOWING:
    - AS REQUIRED TO MEET FINE GRADE ELEVATION TOLERANCES SPECIFIED.
    - WHERE COARSE AGGREGATE BASE MATERIAL DOES NOT HAVE SUFFICIENT FINE PARTICLES TO PRODUCE A SURFACE THAT IS FREE OF EXPOSED AGGREGATE OR SURFACE VOIDS IMMEDIATELY PRIOR TO PAVEMENT INSTALLATIONS.
  - COMPACT FINE AGGREGATE BASE CHOP-OFF LAYER WITH A MINIMUM OF 2 PASSES WITH A VIBRATORY COMPACTOR.
  - EOP SURFACE OF BASE MATERIAL TO BE DRY, SMOOTH, FLAT, DENSE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.

- ENSURE TESTING AGENCY VERIFIES AGGREGATE BASE IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING PAVEMENT. TESTING AGENCY TO PROVIDE LETTER REPORT TO OWNERS REPRESENTATIVE STATING THE BASE IS ACCEPTABLE.
- NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF UNUSUAL SOIL CONDITIONS ARE FOUND.
- PROTECT EXISTING STRUCTURES, UTILITIES, PROPERTY CORNERS, ETC. RESTORE ALL ITEMS DAMAGED, AS REQUIRED BY OWNER, AT NO COST TO OWNER OR WITHOUT EXTENSION OF CONTRACT TIME. \*\* DO NOT ALLOW STORED EXCAVATION MATERIAL TO DISRUPT PROPER DRAINAGE OF AREA, DAMAGE TO SURROUNDING AREAS, OR STAIN ADJACENT CONCRETE.
- DISPOSE OF EXCAVATED MATERIAL AS REQUIRED BY OWNER'S REPRESENTATIVE.

## CONCRETE PAVEMENT NOTES:

- CONFORM TO ACI 318 AND 117 FOR THE DESIGN AND PLACEMENT OF CONCRETE, REINFORCING, AND RELATED ITEMS.
- CONFORM TO ACI 308.1 FOR COLD WEATHER CONCRETING AND ACI 308R WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. REJECT CONCRETE IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90 DEGREES FAHRENHEIT (°F) OR ABOVE. PROTECT SURFACES OF EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.
  - MINIMUM CONDITIONS FOR CONCRETE PLACEMENT:
    - AMBIENT CONDITIONS - 35° AND RISING
    - AGGREGATE BASE TEMP - 45° AND RISING
    - CONCRETE TEMPERATURE - 65° (± 5°)
    - CURE APPLICATION - 45° AND RISING
- CONFORM TO ACI 302.1R, 308R, 309R, 309R AND 347R FOR CONCRETE, FORM WORK, CURING, AND RELATED ITEMS. CONFORM TO CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS FOR PLACING REINFORCING.
- PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS OF 3500 PSI.
- PROVIDE A MINIMUM CEMENTITIOUS CONTENT IN ACCORDANCE WITH ACI 302.1R AND A MAXIMUM WATER/CEMENTITIOUS RATIO OF 0.50. MEASURE AND MIX CONCRETE IN ACCORDANCE WITH ACI 211.1. AIR ENTRAIN CONCRETE EXPOSED TO THE WEATHER. USE SLUMP OF FIVE INCHES (1/2 INCH - ONE INCH).
- SUBMIT FOR APPROVAL MIX DESIGNS AND TEST RESULTS FOR COMPRESSIVE STRENGTH, SLUMP, AND AIR ENTRAINMENT. INCLUDE STANDARD DEVIATIONS AND AVERAGE COMpressive STRENGTHS FOR FIELD DATA. INCLUDE BRAND NAME AND CHEMICAL COMPOSITION OF ALL ADMIXTURES. INCLUDE AGGREGATE TYPE, SOURCE, AND AGGREGATE GRADATION WITH PERCENT RETAINED ON EACH SIEVE FOR EACH AGGREGATE SIZE GROUP AND TOTAL COMBINED FOR ALL SIZE GROUPS. SUBMIT 14 DAYS MINIMUM PRIOR TO USE.
- MIX AND TRANSPORT READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94, EXCEPT REDUCE MAXIMUM DISCHARGE TIME TO 75 AND 60 MINUTES FOR AIR TEMPERATURES OF 85-90 AND 90-95°F, RESPECTIVELY.
- THE OWNER'S TESTING AGENCY WILL TEST SAMPLES OF CONCRETE FOR COMPRESSIVE STRENGTH, AIR ENTRAINMENT, SLUMP, DENSITY, UNIT WEIGHT, AND TEMPERATURE IN ACCORDANCE WITH ASTM C31, C139, AND C138 FROM THE FIRST TRUCK EACH DAY AND THEN EACH 100 CUBIC YARDS FOR EACH TYPE OF CONCRETE PLACED PER DAY, BUT NOT LESS THAN ONE FOR EACH DAY OF CONCRETE PLACEMENT. WHEN ABOVE SCHEDULE PROVIDES LESS THAN FIVE TESTS PER TYPE OF CONCRETE, TEST FIVE RANDOM BATCHES. IF FEWER THAN 5 BATCHES ARE USED, TEST EACH BATCH. IF CONCRETE IS PUMPED, ENSURE TEST SAMPLES ARE TAKEN AT THE POINT OF PLACEMENT. EACH COMPRESSIVE TEST SHALL CONSIST OF FOUR TEST CYLINDERS TO BE TESTED AS FOLLOWS: ONE AT SEVEN DAYS, TWO AT 28 DAYS, ONE RESERVE.
- CONFORM TO THE FOLLOWING:
  - CEMENT: ASTM C 150.
    - TYPE I, II, III, OR TYPE I CEMENT WITH MAXIMUM C3A CONTENT OF 8%.
  - AGGREGATES:
    - ASTM C31 SUBJECT TO SEVERE WEATHERING AND ABRASION, SURFACE APPEARANCE IS IMPORTANT.
    - 2% OF TOTAL COMBINED COARSE AND FINE AGGREGATES PER MIX DESIGN, DO NOT ALLOW MATERIAL RETAINED ON ANY ONE SIEVE TO BE LESS THAN 6% NOR MORE THAN 24% OF TOTAL BY WEIGHT, EXCEPT:
      - (1) LARGEST COARSE AGGREGATE SIZE TO BE 4% STONE, RETAIN 1% TO 3% OF TOTAL COMBINED AGGREGATES PER MIX DESIGN ON LARGEST SIEVE WITH RETAINED AGGREGATE.
      - (2) NO. 30 AND 50 SIEVES TO BE 6% TO 15%.
      - (3) NO. 100 SIEVE TO BE 2% TO 5%.
    - GRADATION REQUIREMENTS OF ASTM C33 MAY BE WAIVED, IF ALLOWED BY ENGINEER, IN ORDER TO MEET 6% - 24% RANGE NOTED ABOVE.
  - WATER: CLEAN AND POTABLE.
  - AIR ENTRAINMENT: ASTM C380.
  - WATER-REDUCER: ASTM C494, TYPE A, OR D IF APPROVED. NON-CHLORIDE TYPE.
  - RETARDER: ASTM C494, TYPE B OR D.
  - ACCELERATOR: ASTM C494, TYPE C OR E. NON-CHLORIDE AND NON-THIOCYANATE TYPE.
  - FLY ASH: ASTM C 618, CLASS C OR F, EXCEPT LOSS ON IGNITION NOT TO EXCEED 3%.
  - SLAG: ASTM C 595, GRADE 100 MINIMUM.
  - AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES COMPACT WITH A MINIMUM OF TWO PASSES WITH A SMOOTH VIBRATORY COMPACTOR.
  - JOINT BACK-UP MATERIAL: POLYETHYLENE FOAM, 100% CLOSED CELL.
  - FIRM PREFORMED JOINT FILLER (PJF): ASTM D 1751, NONEXTRUDING, USE FULL DEPTH OF CONCRETE.
  - SOFT PREFORMED JOINT FILLER: "EXPANSION-JOINT FILLER" BY SONNEBORN, "DECK-OF-FOAM" BY W. R. MEADOWS, OR "CERAMAR" FLEXIBLE FOAM BY W. R. MEADOWS. USE FULL DEPTH OF CONCRETE.
  - EVAPORATION RETARDANT: "EUCO-BAR" BY EUCO, "CONFLIM" BY MASTER BUILDERS OR AQUAFILM BY DAYTON SUPERIOR.
  - LOAD PLATE DOWELS AND CLIPS: PNA, 1-800-542-0214.
  - SQUARE DOWELS AND POCKET FORMERS: SQUARE DOWEL SYSTEM BY PNA, 1-800-542-0214. 1/2" DOWEL CLIP SYSTEM BY PNA.
  - PAVEMENT SEALANT: DOW 888 BY DOW CORNING, 301 NS BY PECORA, SPECTRUM 800 OR 900 BY TREMCO.
  - LIQUID CURING AND SEALING COMPOUND: ASTH C1235, TYPE I, STYRENE ACRYLATE OR METHACRYLATE TYPE, 29% MINIMUM SOLIDS CONTENT, CLEAR, NON-YELLOWING, STYRENE BUTADIENE NOT ALLOWED AS PART OF BLEND.
  - REBAR SUPPORT DEVICES: CRSI MANUAL OF STANDARD PRACTICE.
  - DO NOT USE MANUFACTURED SAND EXCEPT AS A BLEND WITH NATURAL SAND AND/OR AS APPROVED BY ENGINEER.
  - IF POZZOLAN IS APPROVED, ENSURE WEIGHT OF POZZOLAN DIVIDED BY SUM OF CEMENT AND POZZOLAN WEIGHTS, IS AT LEAST 15% AND DOES NOT EXCEED FOLLOWING:
    - FLY ASH:
      - CLASS C FLY ASH: 25%.
      - CLASS F FLY ASH: 20%.
    - SLAG: 30%.
  - DO NOT USE CALCIUM CHLORIDE AS PART OF ADMIXTURE OR BY ITSELF.
  - ENSURE REINFORCING BARS CONFORM TO ASTM A615 GRADE 60, DEFORMED.
  - THE GEOTECHNICAL ENGINEERING REPORT INDICATES THAT THE SOILS ON-SITE HAVE A XXXXXXXX SULFATE EXPOSURE. WHERE IMPORTED FILL OR BASE MATERIALS ARE IN CONTACT WITH CONCRETE, THE SULFATE CONTENT AND EXPOSURE OF THESE MATERIALS SHALL BE ACQUIRED BY TEST. SUBMIT ALL TEST RESULTS WITH CONCRETE MIX DESIGNS. FAILURE TO PROVIDE SUPPORTING TEST RESULTS FROM AN ACCREDITED TESTING LABORATORY WILL REQUIRE THE CONCRETE MIX TO BE PROPORTIONED FOR VERY SEVERE SULFATE EXPOSURE AT NO ADDITIONAL COST OR DELAY IN THE PROJECT SCHEDULE.
  - CONCRETE SHALL BE PROPORTIONED TO MEET THE PROJECT SPECIFICATIONS AND THE MINIMUM CRITERIA ESTABLISHED IN "TABLE A" (THIS SHEET) BASED ON THE SULFATE EXPOSURE FROM ANY ADJACENT SOILS OR FILL MATERIALS.
  - ADDITIONALLY, EXTERIOR CONCRETE EXPOSED TO FREEZING TEMPERATURES AND/OR SALT OR DEICING CHEMICALS SHALL HAVE AIR ENTRAINMENT AND THE CEMENT CONTENT APPROPRIATE FOR THE EXPECTED EXPOSURE.
    - MINIMUM 400 µm AND A 0.45 W/C RATIO. AIR ENTRAIN CONCRETE TO PROVIDE 6% (± 1.5%) AIR. PROVIDE SLUMP OF FIVE INCHES (± ONE INCH) AT POINT OF CONCRETE PLACEMENT.
  - CONCRETE TO MEET DURABILITY REQUIREMENTS OF ACI 301. FREEZING AND THAWING EXPOSURE CATEGORY TO BE [F] [S] [F2] [F3]. SULFATE EXPOSURE CATEGORY TO BE [S0] [S1] [S2] [S3], AND CORROSION PROTECTION EXPOSURE CATEGORY TO BE [C0] [C1] [C2]. PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS OF [3500 PSI] [4000 PSI] [4500 PSI] [5000 PSI] WITH MAXIMUM WATER/CEMENTITIOUS RATIO OF [0.55] [0.50] [0.45] [0.40].
  - ENSURE REINFORCING BARS CONFORM TO ASTM A615 GRADE 60, DEFORMED.
  - PROVIDE CLASS B TENSION LAP SPICES PER ACI 318, FOR CONCRETE STRENGTH AND BAR LOCATIONS NOTED.
  - MAINTAIN FULL THICKNESS FOR DERESSED OR SLOPED PAVEMENTS.
  - \*\* DO NOT ADD WATER OR PLAIN CEMENT TO ANY PAVEMENT SURFACE DURING FINISHING OPERATIONS.
  - STANDARD NO FINISHING OPERATION WHILE WATER IS PRESENT ON PAVEMENT SURFACE.
  - STRIP OFF CONCRETE TO REQUIRED ELEVATIONS AND IMMEDIATELY START FINISHING/FLATTENING OPERATIONS. ENSURE FINISHING OPERATIONS ARE NO MORE THAN NECESSARY TO REMOVE IRREGULARITIES AND MEET SPECIFIED TOLERANCES. USE A HIGHWAY STRAIGHTEDGE 10-FOOT-WIDE MAXIMUM, UNLESS OTHERWISE ALLOWED BY OWNER'S REPRESENTATIVE, IN ORDER TO CUT OFF HIGH SPOTS AND FILL IN LOW SPOTS. PERFORM FINISHING OPERATIONS AS NECESSARY TO ENSURE PAVEMENT WILL DRAIN WELL, UNIFORMLY DRAIN SURFACE TO TEXTURE PREVIOUSLY APPROVED BY OWNER'S REPRESENTATIVE. \*\* DO NOT ALLOW SURFACE TO DRY DURING FINISHING OPERATIONS AND BEFORE CURING COMPOUND IS APPLIED; USE EVAPORATION RETARDANT AS NECESSARY TO PREVENT SURFACE DRYING AND PLASTIC SHRINKAGE CRACKS.
  - FOR TOLERANCES CONFORM TO ACI 117 AND ACI 347R, EXCEPT AS NOTED BELOW:
    - PAVEMENT AGGREGATE BASE FINE GRADE +0, -3/4 INCH.
    - MINIMUM PAVEMENT TOLERANCE: -3/4 INCH.
    - WHEN COMPUTING THE AVERAGE OF ALL SAMPLES, SAMPLES WITH A THICKNESS MORE THAN 1/2 INCH ABOVE THE SPECIFIED THICKNESS SHALL BE ASSUMED TO HAVE A THICKNESS OF 3/4 INCH MORE THAN THE SPECIFIED THICKNESS.
    - AVERAGE PAVEMENT THICKNESS TOLERANCE: 0.
    - THICKNESS SAMPLES ARE TO BE RANDOMLY LOCATED FROM EACH PAVEMENT PLACEMENT AND NOT EXCEED 1000 SQUARE FEET OF PAVEMENT SURFACE AREA.
  - START SAWING PAVEMENT CONTRACTION JOINTS USING A "SOFF-CUT" SAW, BLADES AND SKID PLATES AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELLING OR DISLODGING OF AGGREGATES. UNLESS RAVELLING OR DISLODGING OCCURS, COMPLETE SAWING OF JOINTS WITHIN THE MAXIMUM ELAPSED TIME LIMIT NOTED BELOW, BUT PREFERABLY LESS. THE SPECIFIED TIME FOR ANY ONE LOCATION STARTS WHEN FINISHING OPERATIONS ARE COMPLETE FOR THAT LOCATION. THE SPECIFIED TEMPERATURE IS THE MAXIMUM AIR TEMPERATURE IN DEGREES FAHRENHEIT (°F) THAT OCCURS WITHIN THE SPECIFIED TIME LIMIT. THE ELAPSED TIME MAY NEED TO BE SHORTENED EVEN MORE IF DRY AND OR WINDY CONDITIONS ARE PRESENT. ENSURE JOINTS ARE CLEANED AFTER SAWING AND REMAIN CLEAN UNTIL SEALED.
  - MAX DEGREES FAHRENHEIT (°F)

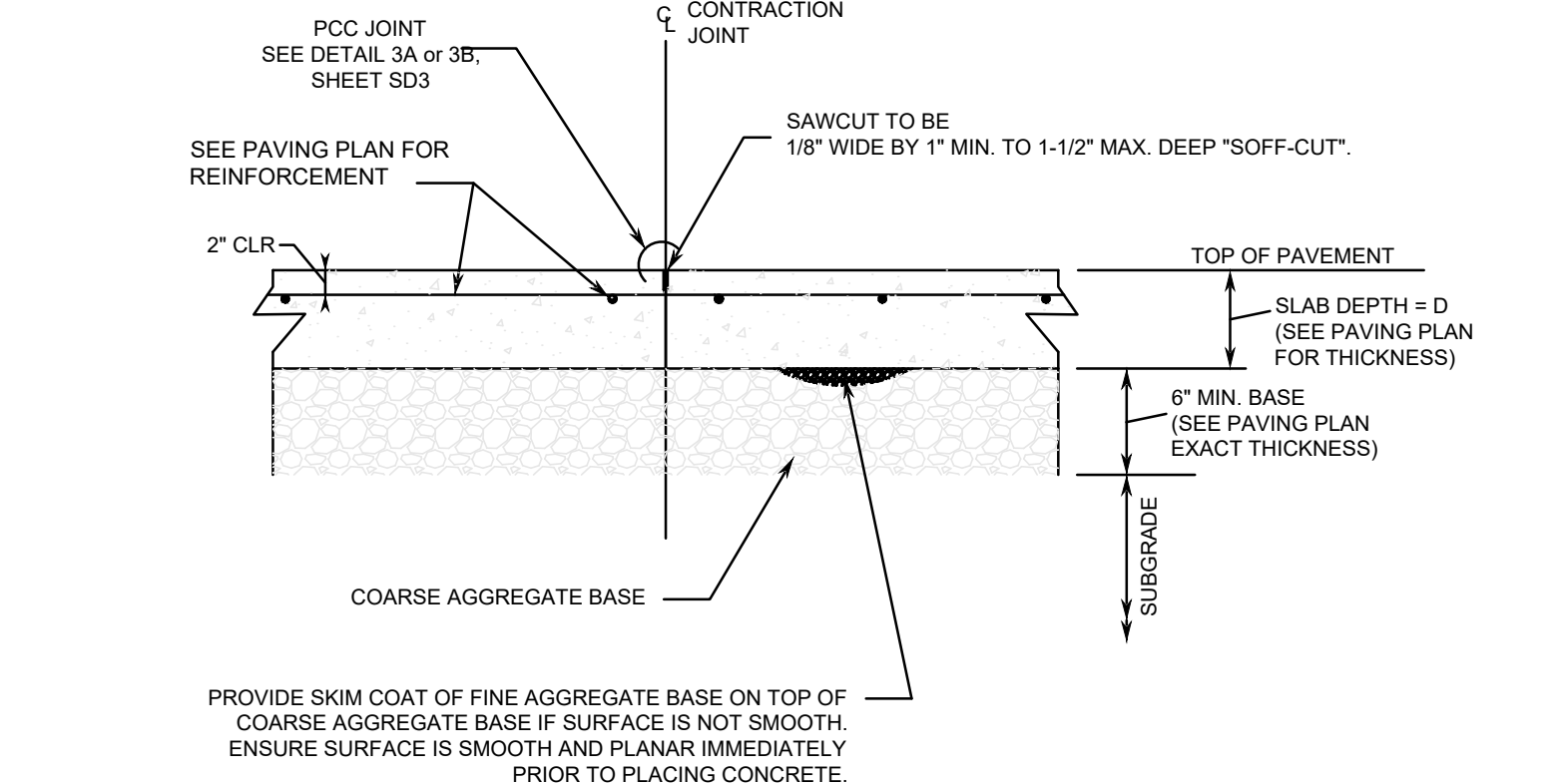
85 AND ABOVE	1
60 - 84	2
50 - 59	3
40 - 49	4
  - START CURING AS SOON AS CONCRETE SURFACE WILL NOT BE DAMAGED BY CURING OPERATIONS.
  - ENSURE PAVEMENT SURFACE IS PROTECTED FROM EQUIPMENT SCRAPES, IMPACT ABRASIONS, STAINS, ETC. REPAIR PAVEMENT SURFACE AS DIRECTED BY OWNER'S REPRESENTATIVE. ENSURE VEHICLES AND EQUIPMENT ARE DAPFED TO PREVENT OIL OR OTHER FLUID LEAKS FROM STAINING THE PAVEMENT. VEHICLE AND EQUIPMENT TRAFFIC IS PROHIBITED UNTIL THE COMPLETION OF PAVEMENT SURFACE (MINIMUM OF SEVEN CONSECUTIVE DAYS).
  - REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PROCESS, CIVIL AND VENDOR'S DRAWINGS FOR EMBEDDED ITEMS NOT SHOWN. COORDINATE AND PLACE ALL EMBEDDED ITEMS SHOWN ON THE DRAWINGS OR REQUIRED BY ALL TRADES.
  - PRE-CONSTRUCTION MEETINGS:
    - ATTEND PRE-CONSTRUCTION / PLACEMENT MEETING TO BE SCHEDULED AT LEAST 7 DAYS BEFORE STARTING MAIN CONCRETE PAVEMENT.
    - ATTENDANCE DESIGNATED BY THE OWNER'S REPRESENTATIVE AND THE FOLLOWING: STRUCTURAL SERVICES INC. REPRESENTATIVE (863-393-4495), TESTING AGENCY, CONTRACTOR, CONCRETE SUPPLIER (INCLUDING QUALITY CONTROL PERSONNEL), AND SUBCONTRACTORS FOR SUBGRADE AND BASE PREPARATION, REINFORCING, PUMPING OR OTHER MEANS OF CONVEYING PLACEMENT, FINISHING, SAWING, FORMWORK, AND OTHER PERTINENT PORTIONS OF WORK.
    - REPRESENTATIVES ARE TO BE PERSONNEL WHO ARE DIRECTLY INVOLVED IN PROJECT AND WHO HAVE AUTHORITY TO CONTROL WORKS.

TABLE A: NASHVILLE & BELOW (SEE CONCRETE PAVEMENT NOTE #5)

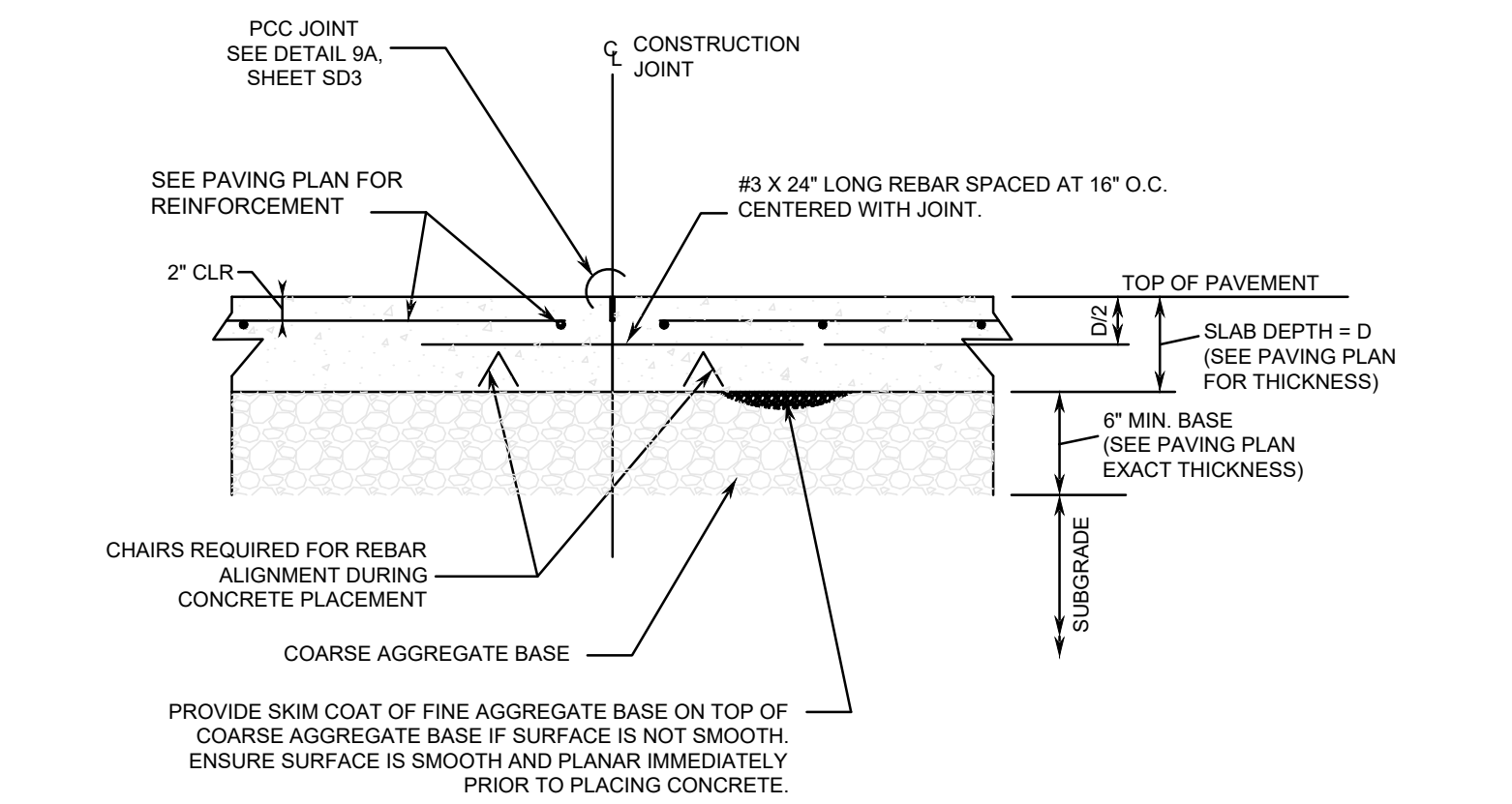
SULFATE EXPOSURE	WATER SOLUBLE SULFATE (SO4) IN WATER PPM	SULFATE (SO4) IN WATER PPM	PORTLAND CEMENT TYPE	MAXIMUM W/C RATIO	CONCRETE PAVEMENTS
NEGIGIBLE	0.00 ≤ SO4 < 0.10	0 ≤ SO4 < 150	I	0.55	3500
MODERATE	0.10 ≤ SO4 < 0.20	150 ≤ SO4 < 1500	II	0.50	4000
SEVERE	0.20 ≤ SO4 ≤ 2.00	1500 ≤ SO4 < 10,000	V	0.45	4500
VERY SEVERE	SO4 > 2.00	SO4 > 10,000	V PLUS POZZOLAN	0.40	5000

## NOTE TO CIVIL ENGINEERING COMPANY

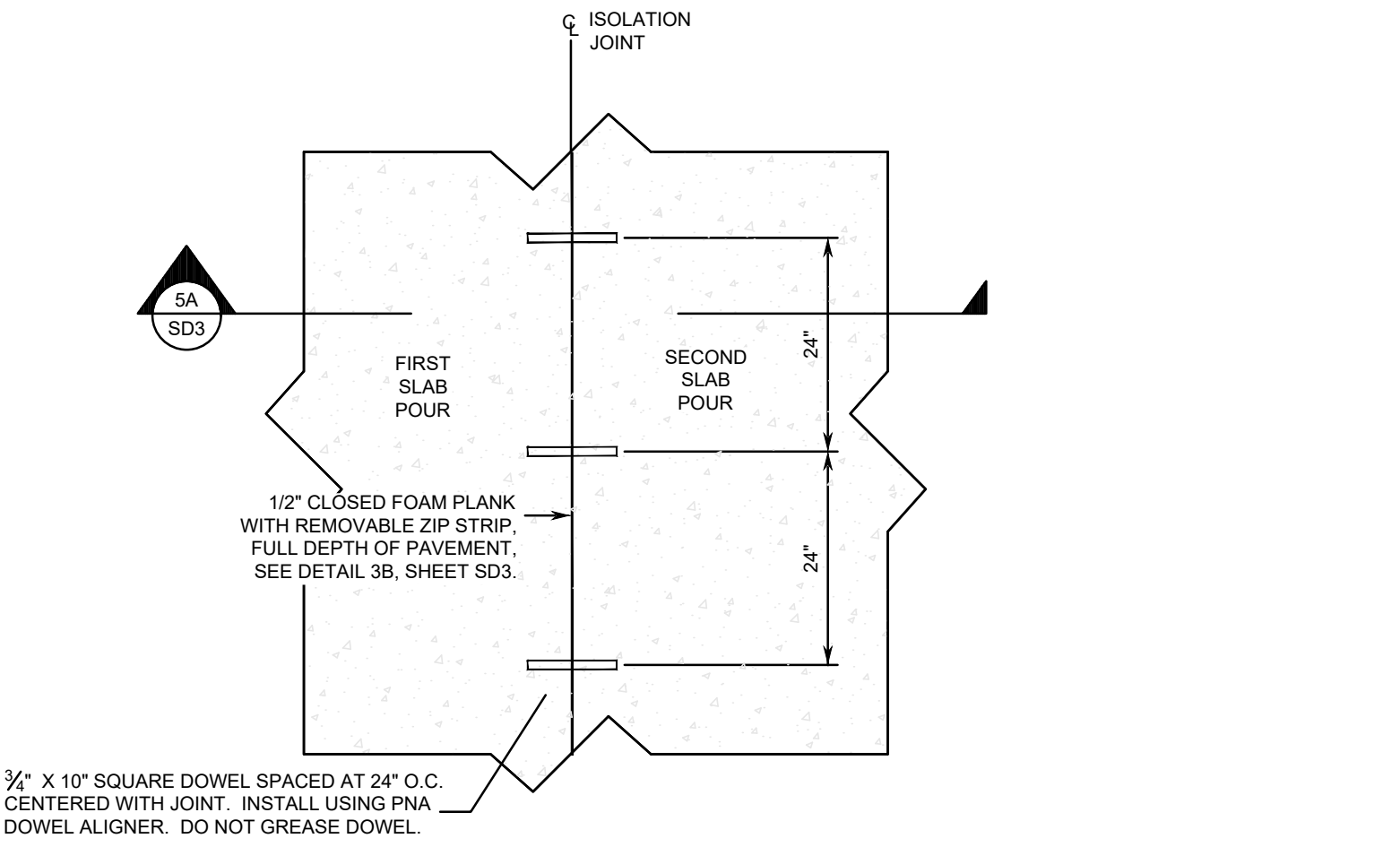
TYPICALLY USE "MODERATE" EXPOSURE FROM TABLE. CONTACT EPM IF EXPOSURE CLASS SHOULD BE CHANGED.



3 SD3 NTS



4A SD3 NTS



5 SD3 NTS

## NOTES:

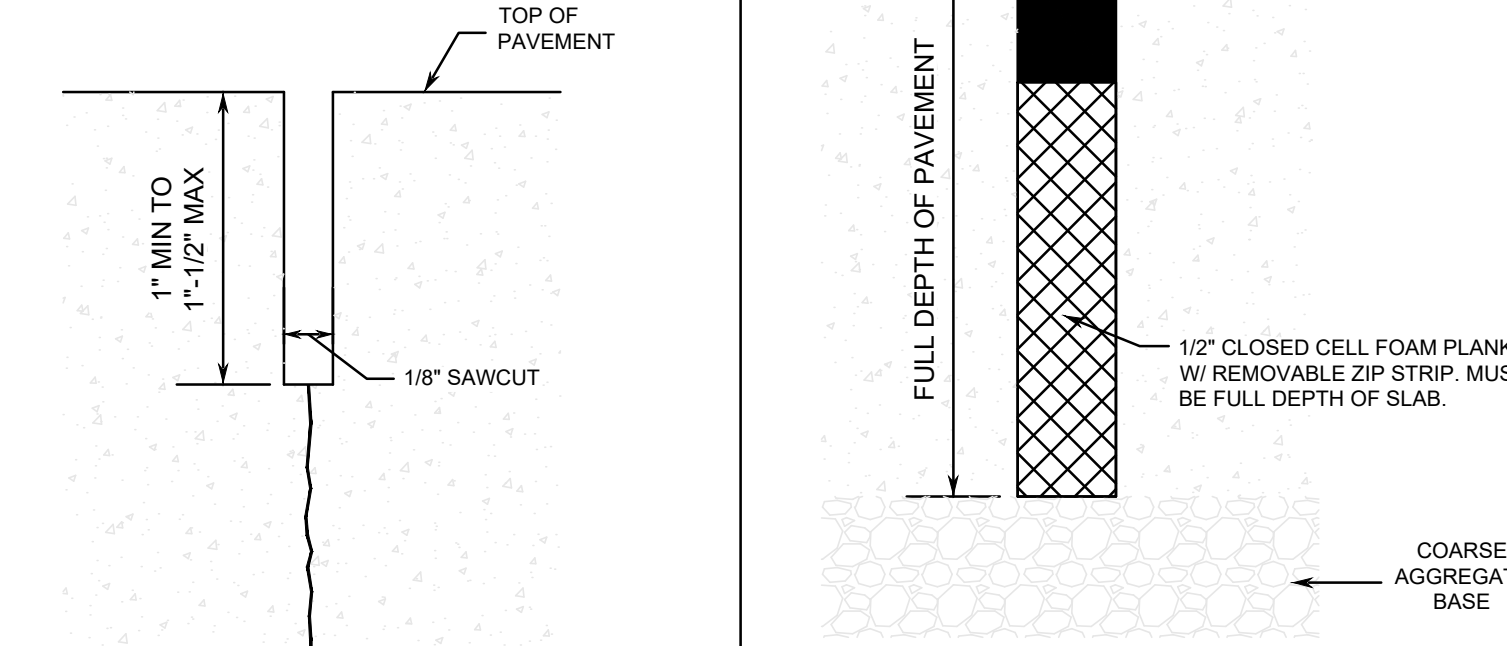
- SLAB PENETRATIONS INCLUDE, BUT ARE NOT LIMITED TO, BOLLARDS, MANHOLES, INLETS, CLEANOUTS, WATER VALVES, ETC.
- DO NOT INSTALL CLOSED CELL FOAM AROUND TANK MANHOLE PENETRATIONS.

1/2\"/>

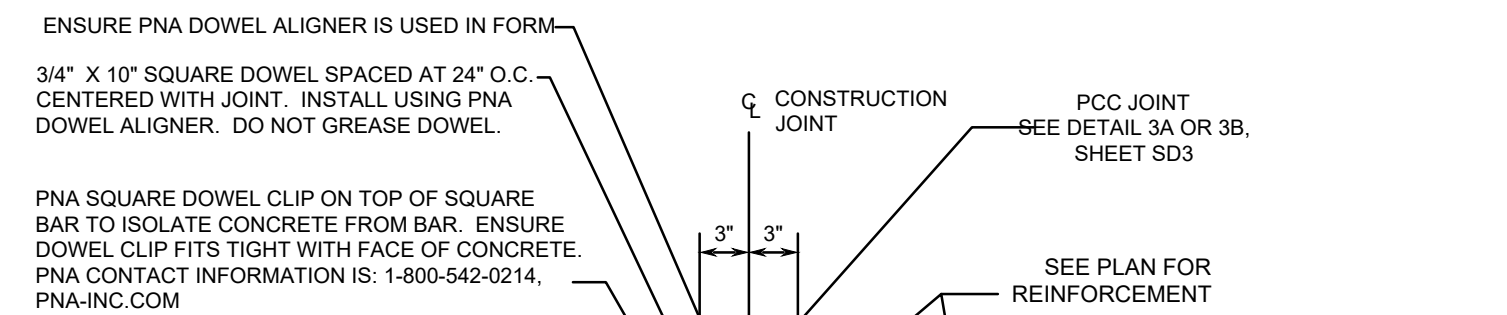
1 SD3 NTS

## NOTES:

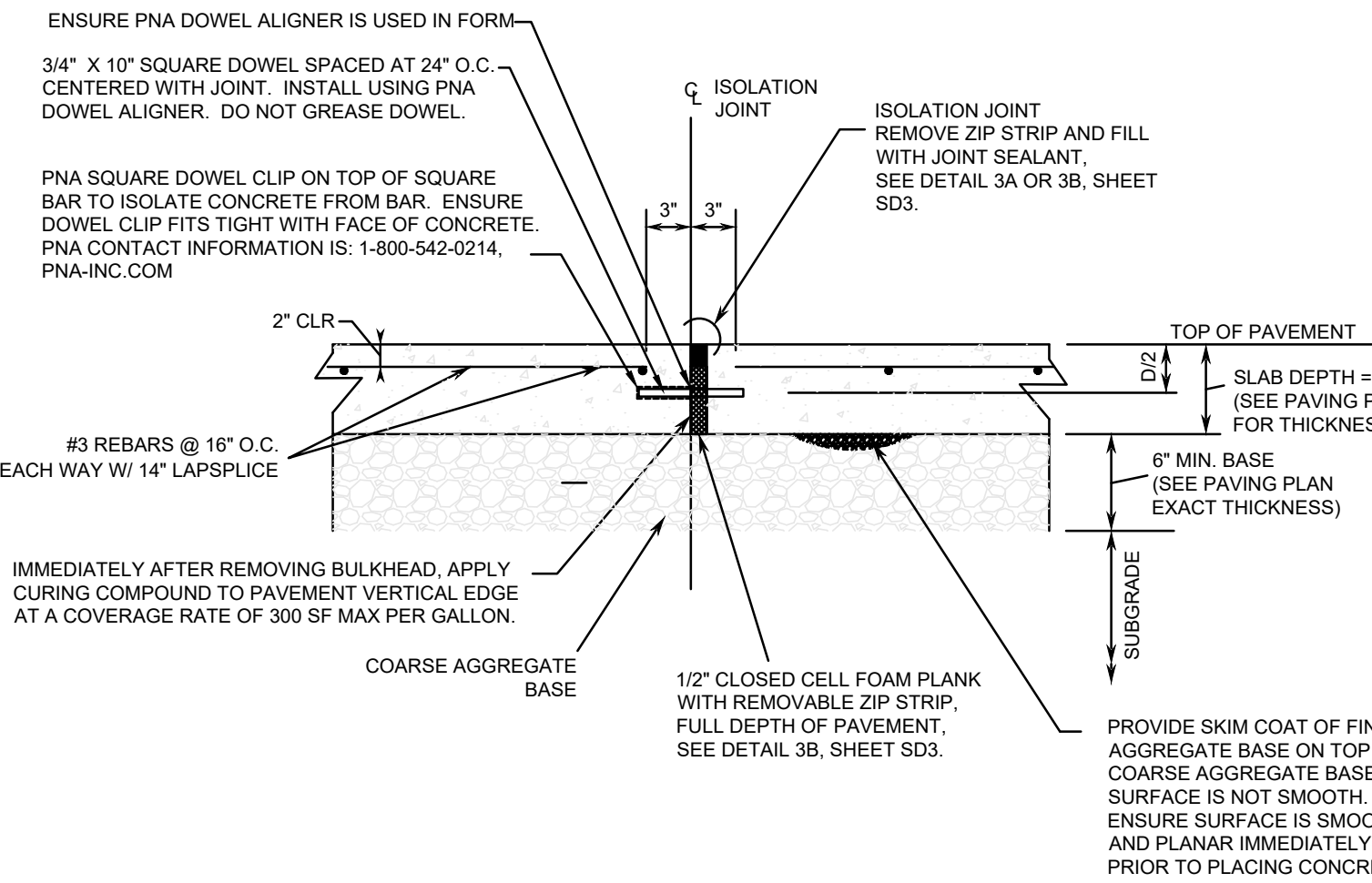
- SAWOUT JOINTS IN ACCORDANCE WITH CONCRETE PAVEMENT NOTE 25, SHEET SD3.
- WAIT AS LONG AS FEASIBLE TO SEAL JOINTS TO ALLOW CONCRETE SHRINKAGE TO OCCUR.



3A SD3 NTS



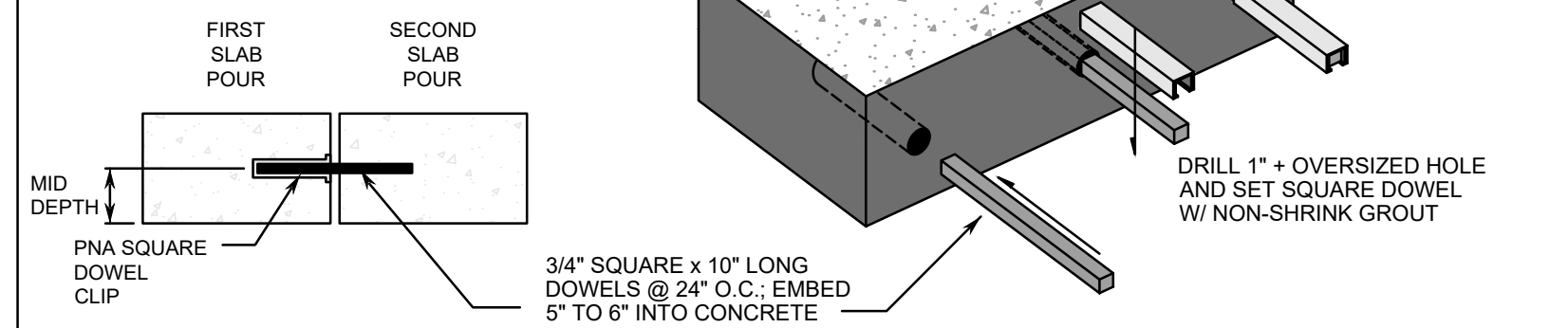
4B SD3 NTS



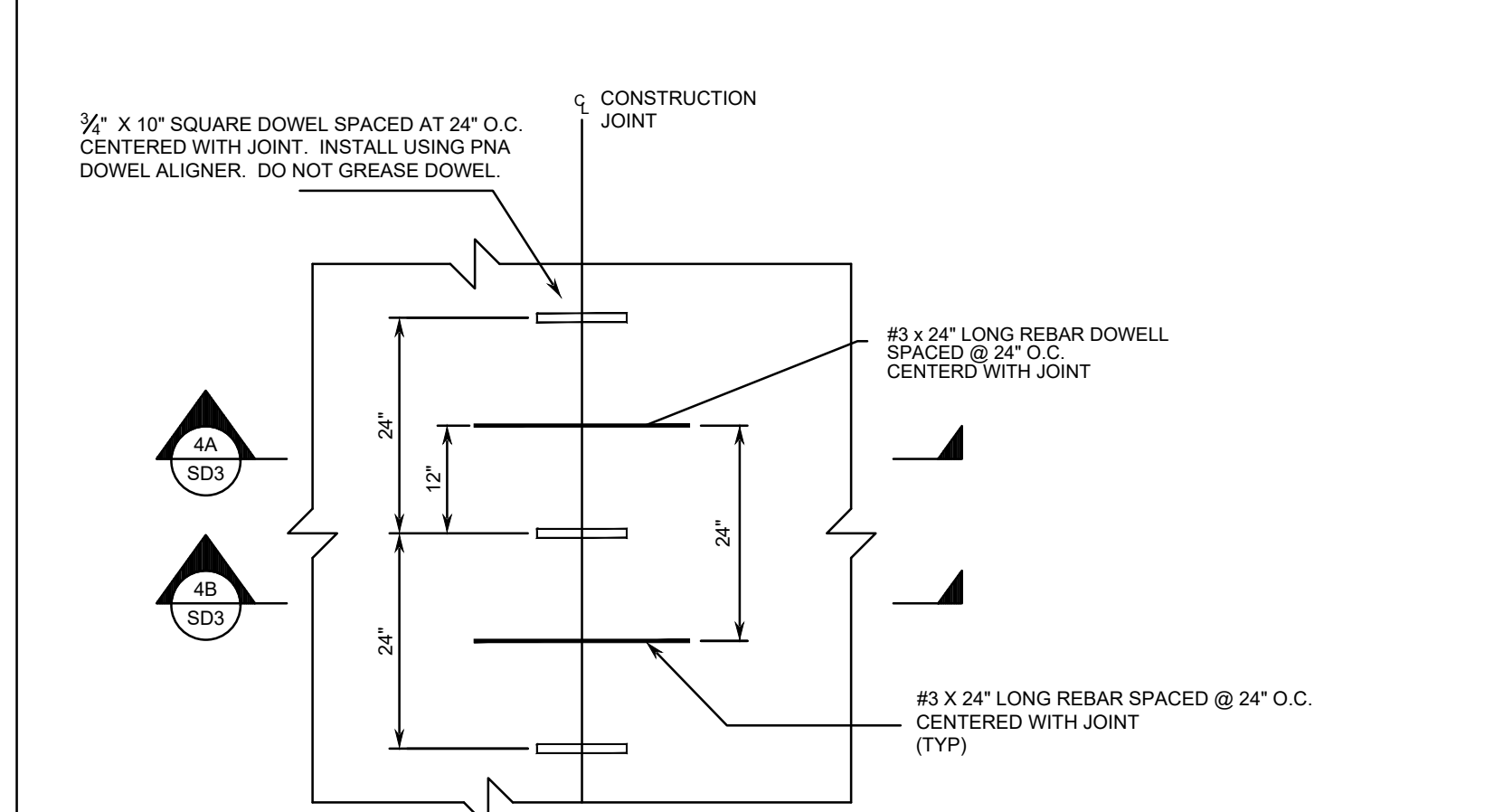
5A SD3 NTS

## NOTES:

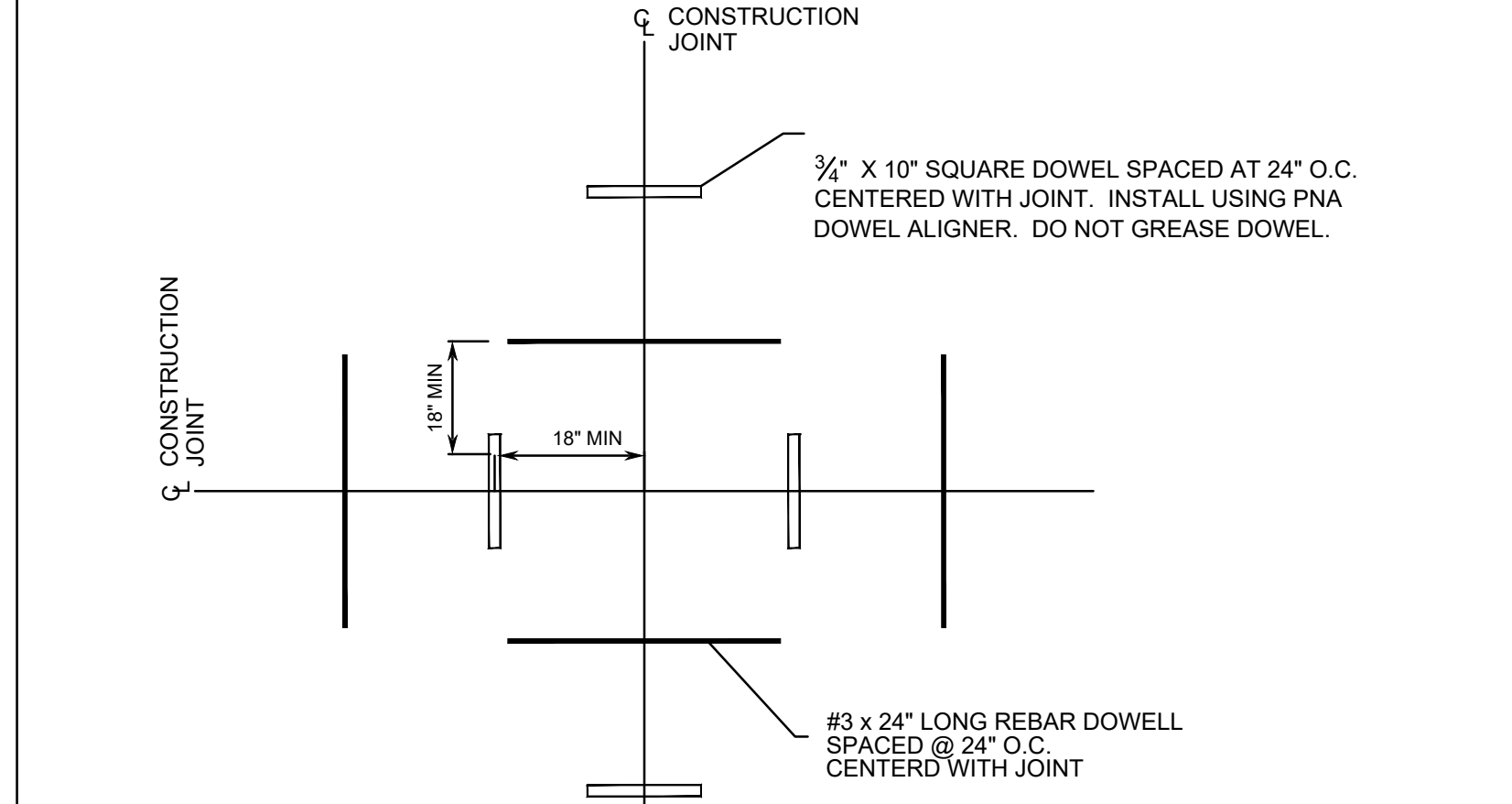
- PNA CONTACT INFORMATION IS: 1-800-542-0214, PNA-INC.COM



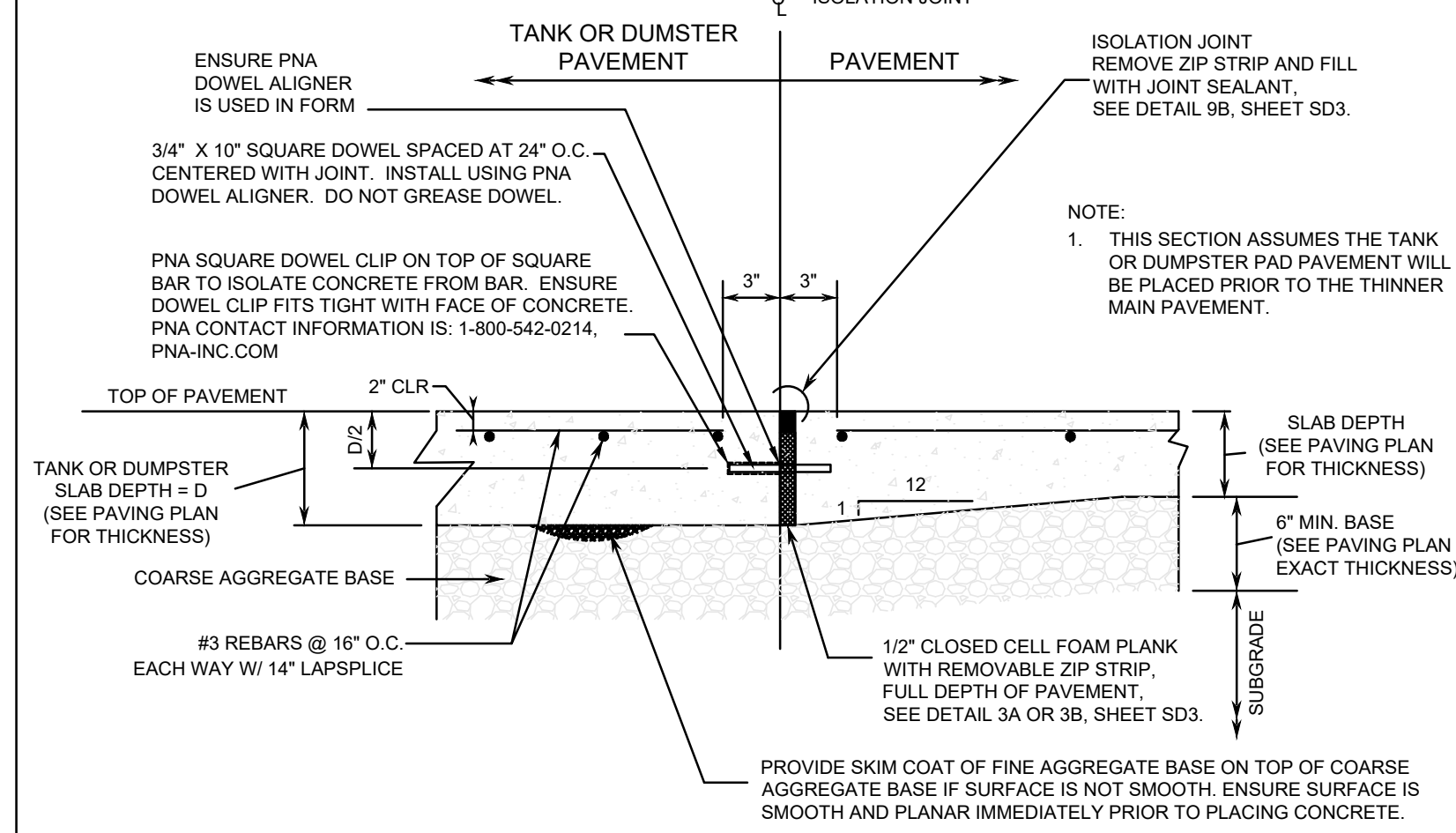
2 SD3 NTS



4 SD3 NTS



4C SD3 NTS



5B SD3 NTS



PRIORITY ENGINEERING, LLC



Engineer's Seal



Certification

North

SCALE

Project

RACETRAC ELECTRIC VEHICLE CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL

HWY

MAPLETON, GA 30126

STORE #140

STORE NAME: OAKDALE ROAD

Sheet Name

SITE DETAILS

ISSUED FOR PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date:

03/28/2024

Reviewed By:

BF

ENG/CADD:

BH

Checked By:

KMA

PE Project No.

23-0013.031

Sheet No.

D-101

DRAWING NOTE: SCALE SHOWN IS MEANT FOR 36\"/>







GENERAL ELECTRICAL NOTES

- ALL DRAWINGS REFLECTED HERE ARE CONSIDERED DIAGRAMMATIC ONLY AND DO NOT REFLECT EVERY DETAIL. CAREFUL ATTENTION MUST BE MADE TO ENSURE SERVICEABILITY OF ALL EQUIPMENT INSTALLED.
- ALTHOUGH A PATH AND ROUTING HAS BEEN IDENTIFIED, ALL CONDUIT ROUTINGS ARE SUBJECT TO CHANGE BASED ON SITE CONDITIONS.
- CAREFUL ATTENTION IS TO BE MADE TO ENSURE COMPLIANCE WITH ALL LOCAL, NATIONAL, AND/OR INTERNATIONAL CODES AND STANDARDS ARE MET. LATEST VERSIONS OF APPLICABLE CODES ARE IDENTIFIED ON THE COVER SHEET OF THE ELECTRICAL DRAWING SECTION.
- IF DEMOLITION IS TO OCCUR, OR ANY AND ALL CIRCUITS ARE IMPACTED AND DISRUPTED DUE TO THE NEED TO DISCONNECT, LOCK OUT/TAG OUT, AND/OR RELOCATE ELECTRICAL SYSTEMS DURING THE SCOPE OF WORK, THESE ARE TO BE RECONNECTED UPON COMPLETION. NO WORK OF THIS NATURE IS TO OCCUR WITHOUT NOTIFYING THE OWNER, TENANTS, AND OTHER CONTRACTORS/EMPLOYEES/AGENTS OF THE LOCAL JURISDICTION, AND ANYONE ELSE ON SITE FIRST.
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ANY LIFE SAFETY ITEMS IMPACTED BY THEIR WORK ARE NOT DISRUPTED DURING THE SCOPE OF WORK.
- NO WIRE SIZE SMALLER THAN #10 AWG IS TO EVER BE USED UNLESS EXPRESSLY IDENTIFIED ON THE DRAWINGS. IF A DISCREPANCY ARISES, PLEASE CONTACT THE ENGINEER OF RECORD.
- ANY AND ALL CONDUCTORS AND CABLING WILL BE RUN IN CONDUIT AS DEFINED IN THE LOCAL, NATIONAL, AND/OR INTERNATIONAL CODES AND STANDARDS.
- ANY WALL PENETRATIONS REQUIRED WILL ADHERE FIRE CODES AND STANDARDS AS DEFINED IN THE CURRENT NFPA & NEC CODE. THIS INCLUDES, BUT NOT LIMITED TO: SLEEVES, PARTITIONS, FIRESTOPPING ITEM, BLANK COVERS, AND/OR RINGS.
- IT IS POSSIBLE THAT NOT ALL CABLING AND CONDUCTORS ARE FULLY IDENTIFIED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY CABLING AND CONTRACTORS TO ENSURE SAFE AND PROPER FUNCTION OF THE SYSTEM AS DESIGNED.
- GROUNDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250. ANY DISCREPANCIES FOUND WITHIN THESE DRAWINGS, THE NEC ARTICLE 250 SHALL TAKE PRECEDENCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER OF RECORD SHOULD ANY DISCREPANCIES BE IDENTIFIED. ALL GROUNDING SHALL BE PROVIDED AS PER NEC. ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA EQUIPMENT GROUNDING CONDUCTORS, AND EACH GROUND SHALL BE IDENTIFIED BY THE PHASE AND EQUIPMENT OF THE SYSTEM AS DETAILED IN NEC ARTICLE 210.5
- GROUNDING WILL BE ITS OWN SEPARATE CABLE/CONDUCTOR. ONLY APPROVED METHODS OF GROUNDING AS PER NEC CODE ARE ACCEPTABLE. GROUNDING RODS AND WIRES/CABLES/CONDUCTORS ARE TO BE SIZED ACCORDINGLY.
- WHEN DIMENSIONS ARE SHOWN, IT IS TO BE ASSUMED THIS DIMENSION IS PROVIDED FROM THE CENTERLINE OF THE ITEM (I.E. CONDUIT, CONDUCTOR, CABLING, ETC). ANY VERTICAL AND/OR HORIZONTAL MEASUREMENTS FROM A SURFACE ARE TO BE ASSUMED FROM THAT SURFACE TO THE CENTERLINE OF CONDUIT, CONDUCTOR, AND/OR CABLING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FINAL PANEL SCHEDULE DIRECTORY TO BE LOCATED ON THE INSIDE PANEL OF PANELS, SWITCHGEAR, AND/OR OTHER EQUIPMENT. THIS DIRECTORY MUST CLEARLY AND CONCISELY IDENTIFY CIRCUIT, CONNECTION, EQUIPMENT, AND/OR OPEN/SPARE CONNECTIONS.
- CIRCUIT BREAKERS SHALL BE INSTALLED PER THE DESIGN. IF A DISCREPANCY ARISES, IT IS THE CONTRACTORS RESPONSIBILITY TO COMMUNICATE THIS TO THE ENGINEER OF RECORD. IF THIS IS NOT DONE THE CONTRACTOR WILL THEN ASSUME ALL LIABILITY.
- ALL ITEMS WITHIN THE ELECTRICAL SYSTEM ARE TO BE OF THE SAME MANUFACTURER. IF THIS IS NOT POSSIBLE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD AND TO PROVIDE DETAILS, SHOP/SUBMITTAL DRAWINGS, AND DETAILS AS TO WHY THIS CANNOT BE MET.
- NEC, NFPA, AND BUILDING CODES AND STANDARDS WILL BE FOLLOWED FOR ANY CIRCUITS, EQUIPMENT, WIRING, CABLING, ETC THAT IS TO BE LOCATED INSIDE CLOSED WALLS.
- ALL EQUIPMENT, MATERIALS, DEVICES SHALL BE LISTED BY UNITED LABORATORIES (UL) OR ANOTHER APPROVED ACCEPTABLE THIRD-PARTY TESTING AGENCY.
- ALL ELECTRICAL EQUIPMENT SHALL BE PROTECTED THROUGHOUT THE ENTIRE ON-SITE CONSTRUCTION PROCESS. NO FINAL COSMETIC ITEMS SHALL BE INSTALLED BEFORE ALL WORK IS COMPLETE TO ENSURE NO DAMAGE TO VISIBLE COVERINGS/PLATES.
- DISCONNECTS SHALL BE MOUNTED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. PLEASE NOTE: DISCONNECTS SHOULD NEVER BE MOUNTED TO PORTABLE ITEMS, MECHANICAL EQUIPMENT, DUCTWORK, OR TEMPORARY STRUCTURES. THEY ARE ALSO TO BE READILY ACCESSIBLE AND IN LINE OF SITE OF THE EQUIPMENT IT MANAGES.
- ALL CABLE AND CONDUCTORS WILL BE ROUTED IN CONDUIT.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LABEL AND INSTALL NAMEPLATES THE PROPERLY IDENTIFY THE ELECTRICAL PANEL/EQUIPMENT AND CIRCUIT NUMBER SERVING THE DEVICE.
- USE OF USED OR PREVIOUSLY INSTALLED EQUIPMENT, CABLING, CONDUCTORS, IS NOT PERMISSIBLE WITHOUT APPROVAL BY THE ENGINEER OF RECORD AND THE OWNER. ONLY NEW MATERIALS SHOULD BE USED.
- THIS DRAWING SET IS INTENDED TO PRODUCE A FUNCTIONAL SYSTEM TO MEET THE OWNER & CLIENTS NEEDS. ANY LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES REQUIRED TO COMPLETE THIS DESIGN ARE AT THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY SHUTDOWNS ON SITE ARE TO BE MINIMIZED OR NOT AT ALL. IF NECESSARY, IT IS SOLELY THE CONTRACTORS RESPONSIBILITY TO NOTIFY ANYONE IMPACTED. A MINIMUM OF 72 HOURS NOTICE MUST BE PROVIDE TO ANYONE THIS SHUTDOWN WILL IMPACT, INCLUDING, BUT NOT LIMITED TO: OTHER CONTRACTORS, TENANTS, NEIGHBORS/NEIGHBORING PROPERTIES, LOCAL JURISDICTION, OWNER, CLIENT, ELECTRIC UTILITY. THE ENGINEER OF RECORD AND OWNER ARE TO BE NOTIFIED IN WRITING.
- ALL WORK PERFORMED BY THE CONTRACTOR, ITS EMPLOYEES, SUB-CONTRACTORS, OR ANYONE THE CONTRACTOR CHOOSES TO USE ON SITE IS TO BE WARRANTED FOR A MINIMUM OF TWELVE (12) MONTHS AFTER THE PROJECT OWNERSHIP IS ASSUMED BY THE OWNER / CLIENT.
- THE CONTRACTOR ASSUMES LIABILITY FOR ANYONE THEY HIRE OR CHOOSE TO HAVE ON SITE.
- THE CONTRACTOR, ITS SUBCONTRACTORS, EMPLOYEES, OR OTHER RESOURCES ARE TO BE INSURED AND BONDED TO STATE & LOCAL MINIMUMS, OR AS THE OWNER / CLIENT STIPULATES. PROOF IS TO BE PROVIDED IN WRITING TO THE OWNER / CLIENT FROM THE CONTRACTOR.
- ANY ELECTRICAL EQUIPMENT INSTALLED IS TO BE PROPERLY SEALED TO ITS ENVIRONMENT.
- CABLING AND CONDUCTORS ARE TO BE INSTALLED TO PREVENT STRESS / STRETCHING OF WIRES. RELIEF LOOPS / EXTRA WIRING IS TO BE USED IN EACH CIRCUIT AND CONNECTION TO PREVENT STRESS / STRETCHING OF WIRES.
- USE OF CHARGERS, VARIABLE FREQUENCY DRIVES, AND / OR GENERATED POWER ARE TO MEET NEC CODES AND STANDARDS AND HAVE FILTERED / BACK FEED PREVENTION DEVICES INSTALLED.
- LIGHTNING ARRESTORS ARE TO BE INSTALLED AS PER LOCAL JURISDICTION. WHEN REQUIRED, THEY ARE TO BE INSTALLED AS PER NEC CODE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM AND/OR SCHEDULE NECESSARY INSPECTIONS WITH THE LOCAL ELECTRIC UTILITY AND/OR JURISDICTION. ANY NON-COMPLIANCES AND/OR WRITTEN DISAPPROVALS/REJECTIONS AS PROVIDED MUST BE COMMUNICATED TO THE OWNER / CLIENT(S) ATTENTION IN WRITING.
- IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE NECESSARY STEPS AND PRECAUTIONS WHEN DRILLING AND/OR CUTTING INTO EXISTING WALLS, FLOORS, STRUCTURES, EQUIPMENT. WHEN CUTTING INTO WALLS, BEAMS, JOIST, TRUSSES, AND THE LIKE, IT IS THE CONTRACTORS RESPONSIBILITY TO CONSULT WITH A STRUCTURAL ENGINEER TO ENSURE NO DAMAGE OCCURS.
- IF NECESSARY, THE CONTRACTOR IS TO UTILIZE APPROVED METHODS AS PROVIDED VIA ASTM FOR X-RAYING, CONDUCTOR PENETRATING RADAR TO AVOID IMPACTING CRITICAL INFRASTRUCTURE OR COMPROMISING THE FACILITY STRUCTURE AND / OR INFRASTRUCTURE.
- PLEASE REFERENCE ADDITIONAL DRAWINGS FROM THE PLAN SET, SUCH AS CIVIL DESIGN, FOR APPROPRIATE INGRESS/EGRESS OF PIPING, CONDUIT, CONDUCTORS, AND/OR CABLING FOR THE FACILITY.
- PLEASE CONTACT THE ENGINEER OF RECORD FOR ANY DISCREPANCIES.
- CONTRACTOR TO PROVIDE ARC FLASH AND SHOCK HAZARD WARNING LABELS IN ACCORDANCE WITH NFPA 70(E) FOR SAFE WORK PRACTICES AND PERSONAL PROTECTIVE EQUIPMENT SHALL BE A FIXED TO EQUIPMENT IN A CLEAR AND VISIBLE MANNER. THESE CALCULATIONS ARE TO BE PROVIDED BY A STATE LICENSED PROFESSIONAL ENGINEER.
- DURING INSTALLATION, DIRECTION CHANGE IN CONDUIT, SUCH AS ELBOWS, TURNS AND TRANSITIONS, THE CONDUIT SHALL BE STRONG ENOUGH TO SUSTAIN FORCES FOR PULLING CONDUCTORS THROUGH THE CONDUIT RUNS. IF THE CONDUIT MATERIAL SPECIFIED IS NOT SUFFICIENT THEN GALVANIZED RIGID STEEL MATERIAL ELBOWS SHALL BE USED IN THESE DIRECTIONAL CHANGE AREAS. PLEASE CONTACT THE ENGINEER OF RECORD FOR DISCREPANCIES OR QUESTIONS PRIOR TO CONSTRUCTION.

ELECTRICAL SPECIFICATIONS

- PART 1 - GENERAL
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER OF RECORD AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE ARCHITECT AND/OR ENGINEER OF RECORD HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
  - THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS THE COST THEREOF.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZE IN THIS PROJECT:
    - NATIONAL ELECTRIC CODE (NFPA-70)
    - CODE FOR SAFETY TO LIFE (NFPA-101)
    - STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
    - UNDERWRITER LABORATORIES (UL)
    - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
    - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
    - FEDERAL SPECIFICATION (FED SPEC)
    - INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPECA)
    - INTERNATIONAL BUILDING CODE 2021 EDITION
    - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEER (IEEE)
    - ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)
  - DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE.
  - IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
  - CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
  - CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.
  - ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
  - CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
  - THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL, AND CONNECT COMPLETE

- PART 2 - PRODUCTS
- MINIMUM WIRE SIZE SHALL BE #10 AWG (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 90% CONDUCTIVITY, COPPER WITH "THIN-2 - THIN-2" INSULATION UNLESS OTHERWISE NOTED.
  - ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.
  - RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 PVC
  - OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
  - ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE
  - PANELBOARDS:
    - CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER
    - ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE
    - CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWO" OR "HIO" AS REQUIRED.
    - ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE
    - PANELBOARDS SHALL BE SERIES RATES WITH UPSTREAM BREAKERS IN MDP.
    - ALL PANEBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4-in ENGRAVED LETTERING FOR PANEL IDENTIFICATIONS.
    - ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.
  - DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK.
  - MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE. PROVIDE MAGNETIC STARTERS WITH "H-B-A" SWITCH.
  - ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONS OR AS OTHERWISE NOTED.
  - WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED. FACEPLATES SHALL BE SMOOTH, WHITE NYLON.

- PART 3 - EXECUTION
- COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
    - 208/120 VAC, 3-PHASE, 4-WIRE SYSTEM: UNDERGROUND CONDUCTORS: 1 BLACK, 1 RED, AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTORS: WHITE. GROUNDING CONDUCTORS SHALL BE GREEN. FOR 480/277 VAC 3-PHASE IN ACCORDANCE WITH NEC CODE(S): 1 BROWN, 1 ORANGE, 1 YELLOW. GROUNDED (NEUTRAL) CONDUCTORS: GRAY. GROUNDING CONDUCTORS SHALL BE GREEN.
    - BRANCH CIRCUITS WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPTS LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.
  - WIRING METHODS
    - ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY APPROVED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE. NO ZINC ALLOY OR POT METAL MATERIALS ARE ACCEPTABLE.
    - SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE. DURING CONSTRUCTION, AREAS WITH DIRECTIONAL CHANGE SUCH AS ELBOWS, TEES, TRANSITIONS SHALL BE OF SUFFICIENT STRENGTH MATERIAL TO SUSTAIN CONDUIT INSTALLATION METHODS.
    - TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FROM JUNCTION BOX TO FIGURE ONLY (SECURED AT 6'-0" MAXIMUM INTERVALS AND WITHIN 1'-0" FROM THE JUNCTION BOX) FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
  - ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE NEC AND LOCAL CODES.
  - ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
  - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
  - THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.
  - PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.
  - ARTERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREFOR, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IEEE.
  - CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY OWNER.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF THEIR WORK.
  - ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.
  - CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
  - ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
  - CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATE ON EQUIPMENT SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF BREAKER SIZE, WHICHEVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL RUNS IN EXCESS OF 100 FEET FOR DETERMINATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE BY (1) WIRE SIZE FOR RUNS 100 FEET TO 200 FEET AND TWO (2) WIRE SIZES FOR RUNS OVER 200 FEET.
  - THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATING, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS.
  - THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.
  - ANY AND ALL CONFLICTS, DISCREPANCIES, QUESTIONS, AND COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH ANY WORK. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR THE RISK AND LIABILITY OF THEIR ACTION.

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
ART	ARTICLE
AUX	AUXILIARY
BLOG	BUILDING STRUCTURE
CONC	CONCRETE
CU	COPPER
DC	DIRECT CURRENT
ESC	EQUIPMENT GROUNDING CONDUCTOR
EX	EXISTING
EMT	ELECTRIC METALLIC TUBING
EV	ELECTRIC VEHICLE
EVES	ELECTRIC VEHICLE SUPPLY EQUIPMENT
GALV	ELECTRIC VEHICLE CHARGING STATION
GND	GALVANIZED
HOG	GROUND
I	HOT DIPPED GALVANIZED
KVA	CURRENT
KW	KILOVOLT AMPERE
M	KILOWATT
MAX	METER
MIN	MAXIMUM
N	MINIMUM
NEC	NEUTRAL
NTS	NATIONAL ELECTRIC CODE
N	NOT TO SCALE
OC	NEW
PL	ON CENTER
PVC	PROPERTY LINE
RMC	POLYVINYL CHLORIDE
RGS	RIGID METALLIC CONDUIT
SCH	RIGID GALVANIZED STEEL
SS	SCHEDULE
T	STAINLESS STEEL
TR	TRANSFORMER
TV	TYPICAL
V	VOLT
W	WATT



PRIORITY ENGINEERING, LLC



Engineer's Seal



Certification

North

SCALE

Project

RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



Project Location

1461 VETERANS MEMORIAL  
HWY  
MABLETON, GA 30126  
STORE- #140  
STORE NAME- OAKDALE ROAD

Sheet Name

GENERAL PROJECT NOTES

ISSUED FOR  
PERMITS

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CADD: BH

Checked By: KMA

PE Project No. 23-0013.031

Sheet No.

E-100

DRAWING NOTE: SCALE SHOWN IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED OR ANY OTHER SIZE. PLEASE REDUCE TO 11" X 17" NO REPRODUCTION SHALL BE MADE WITHOUT PRIOR CONSENT OF PRIORITY ENGINEERING, LLC. © 2024



PRODUCT LEAFLET

## Terra DC fast chargers

### Terra 94/124/184 UL



The Terra 94/124/184 is available as shown above in CCS-single, CCS-dual and NEVI-compliant variants. CCS+CHAdemo is also available on request. NACS connector variants will be available in the future.

Cable management options are strongly recommended for enhanced reliability and usability.

#### Flexible configuration

Terra DC fast chargers with power up to 180 kW are designed for the most compact, reliable and future-proof demands. In addition to a range of power selections, Terra chargers can be configured with in single or dual outlet format. Cable management, payment enablement and connectivity choices also offer owners, operators and site hosts options tailored to the needs of every charging site, from public to fleet needs.

#### NEVI programs

ABB E-mobility also offers an FHWA Build America, Buy America compliant Terra 184 which can deliver up to 180 kW of dedicated power. This model enables hardware, digital and operational NEVI program standards. See our [NEVI Guide](#) for more details.

Terra "all in one" chargers are offered from up to 180 kW.

The Terra 124 and 184 models can charge two vehicles at the same time.



**Terra 94**  
one EV  
up to  
**90 kW**



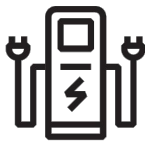
**Terra 124**  
one EV  
up to  
**120 kW**



**Terra 124**  
two EVs  
each up to  
**60 kW**



**Terra 184**  
one EV  
up to  
**180 kW**



**Terra 184**  
two EVs  
each up to  
**90 kW**



**Terra 184 NEVI**  
one EV  
up to  
**180 kW**



The Terra all-in-one DC fast charger offers power up to 180 kW, with convenient charging times for every EV – including those with HV batteries.

The compact, modular design makes it perfect for retail, highway or fleet use, with power sharing to further optimize utilization. All Terra chargers feature connectivity for remote services and OCPP enablement.

#### The most reliable, scalable choice

ABB E-mobility's Terra chargers offer a redundant power architecture for the highest uptime in the EV infrastructure industry. These chargers can meet the needs of high voltage BEVs up to 920V, making these systems fully compatible with all current and future EVs. With a host of configuration options, Terra DC fast chargers are ready to support EV market growth over time.

#### Power sharing for high utilization

Business model enablement and high utilization are critical to successful EV charging infrastructure programs. With this goal in mind, ABB E-mobility has designed the Terra 124 and Terra 184 models with power sharing technology for charging two vehicles at the same time.

#### Advanced, high power design

- A compact, all-in-one charger up to 180 kW
- Terra 124 and Terra 184 can fast-charge two vehicles at the same time
- High current connectors reduce charge times
- Up to 920 VDC serving every EV
- Modular power module design allows for increased reliability and easier servicing
- Delivers output power continuously and reliably over its lifetime
- Robust all-weather powder-coated stainless steel enclosure
- Bright, daylight readable touchscreen display with graphic visualization of charging session
- Design enables ADA compliant installations
- Quick and easy installation as well as serviceability

#### Flexible configurations and options

- Connector choices include configurations include CCS-single, CCS-dual and CCS+CHAdemo. NACS connector variants will be available in the future.
- RFID authorization modes
- Optional integrated payment terminal
- Reliable cable management system available as ordered or field upgrade
- Integrated payment terminal
- Web tools for statistics and PIN access management

#### Connectivity features

- Always connected, enabling remote services, updates and upgrades
- ISO 15118 enabled
- Designed for quick installation and fast serviceability
- Pre-integrated with OCPP networks, payment platforms and energy management APIs
- Customizable user interface

#### Safety and certification

- UL certified
- High short circuit current rating
- ENERGY STAR certified
- NTEP and CTEP certified

Specifications	Terra 94		Terra 124	Terra 184	Terra 184 NEVI
Electrical					
Maximum output power	90 kW	120 kW or 60 kW x 2	180 kW or 90 kW x 2	180 kW	
AC Input voltage	480Y / 277 VAC +/- 10% (60 Hz)				
AC input connection	3-phase: L1, L2, L3, GND (no neutral)				
Nominal input current and input power rating	115 A, 96 kVA	153 A, 128 kVA	230 A, 192 kVA	230 A, 192 kVA	
Recommended upstream circuit breaker(s)	150 A	200 A	300 A	300 A	
Power Factor*	> 0.96				
Current THD*	< 5%				
Short circuit current rating	65 kA				
DC output voltage	CCS-1: 150 - 920 VDC; CHAdemo: 150 - 500 VDC				
DC output current	200 A	CCS1: 400 A (peak) CHAdemo: 200 A			
Efficiency*	95%				
Interface and Control					
Charging protocols	CCS1, CHAdemo 1.2				
User Interface	7" high brightness full color touchscreen display				
RFID system	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode, Mifare, Calypso, (option: Legic)				
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet				
Communication	OCPP 1.6J Core and Smart Charging Profiles Autocharge via OCPP				
Supported languages	Multiple languages supported				
Environment					
Operating temperature	-35 °C to +55 °C / -31 °F to +131 °F (de-rating characteristics apply at extreme temperatures)				
Recommended storage	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)				
Protection	IP54, NEMA 3R; indoor and outdoor rated				
Humidity	5% to 95%, non-condensing				
Altitude	2000 m (6560 ft)				
General					
Charge cable	6 m (19.6 ft)				
Dimensions (H x W x D)	1900 x 565 x 880 mm / 74.8 x 22.2 x 34.6 in				
Weight	350 kg / 775 lbs	365 kg / 800 lbs	395 kg / 870 lbs	395 kg / 870 lbs	
Compliance and safety	UL 2202, CSA No.107.1-16; UL 2231-1, UL 2231-2, CSA STD C22.2 No.107.1; NEC Article 625, EN 61851, EN 62196; CHAdemo 1.2; DIN 70121, ISO 15118; IEC 61000-6-3; EMC Class A (90-180 kW), FCC Part 15; ENERGY STAR® certified; NTEP/CTEP; NEVI configuration: FHWA Build America, Buy America				

\*Data shown at nominal output power

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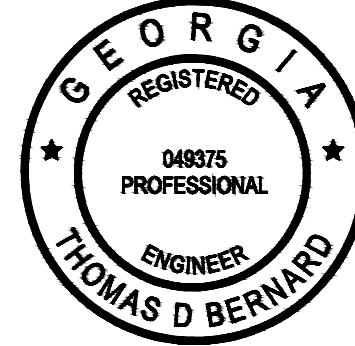
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**RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM**



Project Location

**1461 VETERANS MEMORIAL  
HWY  
MAPLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD**

Sheet Name

**EQUIPMENT SPECIFICATIONS**

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PERMITS**

Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date:

03/28/2024

Reviewed By:

BF

ENG/CAAD:

BH

Checked By:

KMA

PE Project No.

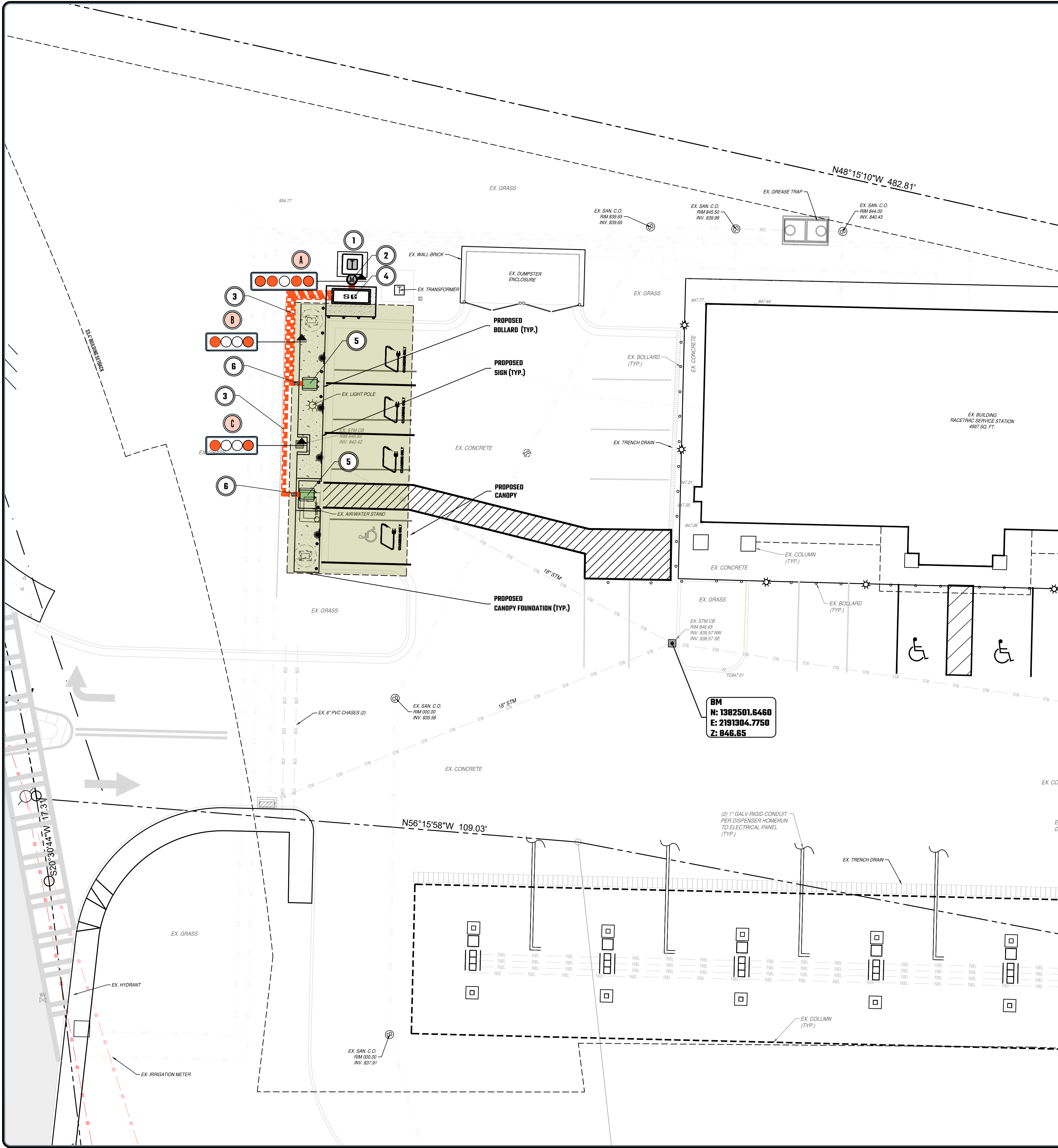
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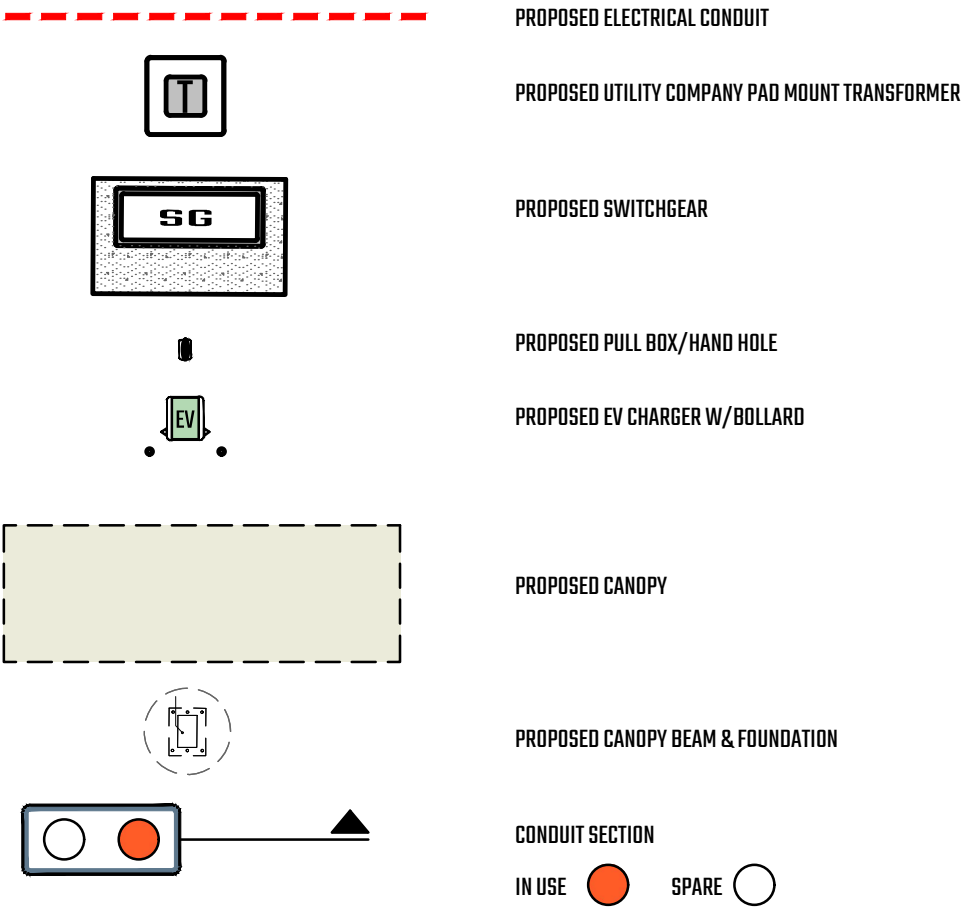
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ELECTRICAL LEGEND



KEYNOTES

1. APPROXIMATE LOCATION OF PROPOSED TRANSFORMER MOUNTED ON CONCRETE PAD. FINAL LOCATION WILL BE DETERMINED BY ELECTRIC UTILITY AUTHORITY.
2. APPROXIMATE LOCATION OF METER/LOAD CENTER. REFER TO SHEET E-300 FOR PROPER HARDWARE, ROUTING AND CONFIGURATION.
3. APPROXIMATE ROUTING OF NEW CONDUIT. SETS OF 6-INCH & 4-INCH CONDUIT EACH W/PULLSTRING (2 SETS FOR PARALLEL CONDUITOR CONFIGURATION & 1 SET FOR FUTURE USE)
4. APPROXIMATE LOCATION OF SWITCHGEAR ON CONCRETE PAD
5. APPROXIMATE LOCATION OF ELECTRICAL VEHICLE CHARGING UNIT
6. PULL BOX / HAND HOLE

FEEDER SCHEDULE

AMPERE RATING	FEEDER ROUTING DESCRIPTION	FEEDER TAG	# OF CONDUCTOR SETS (PARALLEL CONFIGURATION)	WIRE SIZE, KCMIL (THHN-3 - THWN-2 or AWG COPPER)	GROUND CONDUCTOR SIZE (AWG COPPER)	CONDUIT SIZE, INCH	QTY OF CONDUITS INSTALLED	QTY OF CONDUITS USED	**FEEDER LENGTH, FEET	VOLTAGE DROP, %
1600	TRX to SG	A	4	600	4/0 AWG	6	5	4	100	0.52
500	SG to EVC #1	B	2	2 / 0	3 AWG	4	4	2	100	0.70
300	SG to EVC #2	C	2	2 / 0	3 AWG	4	4	2	100	0.70
-	FUTURE									
-	FUTURE									

\*\*NOTE: ROUTINGS ARE BASED ON 100 FOOT CONDUCTOR LENGTH. FOR DISTANCES IN EXCESS OF THIS CONTACT THE ENGINEER OF RECORD. A MAXIMUM VOLTAGE DROP WILL BE ALLOWED FOR ALL CIRCUITS.



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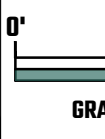
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RACETRAC ELECTRIC VEHICLE CHARGING STATION PROGRAM



Project Location

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MABLETON, GA 30126  
STORE #140  
STORE NAME: OAKDALE ROAD

Sheet Name

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Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CAOD: BH

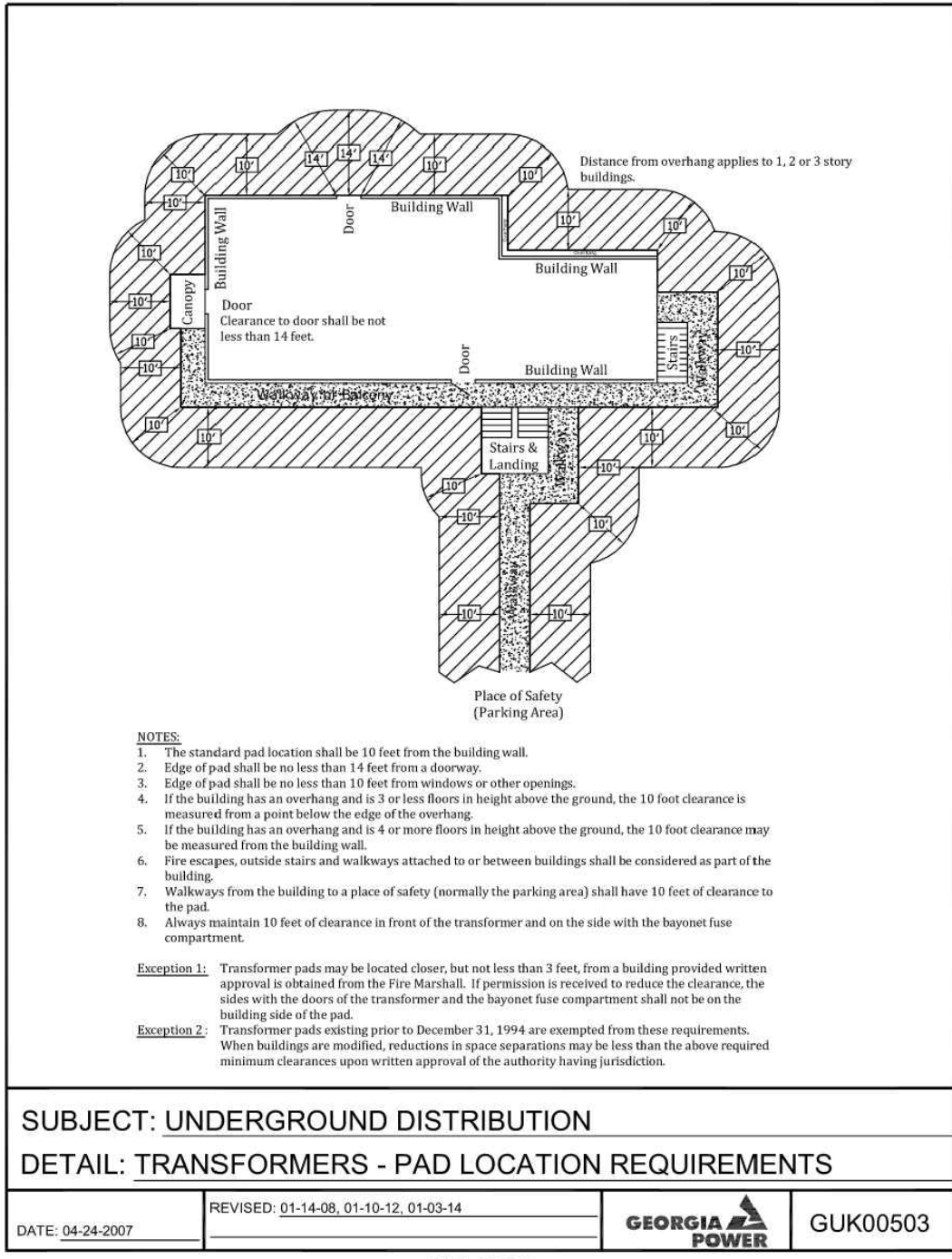
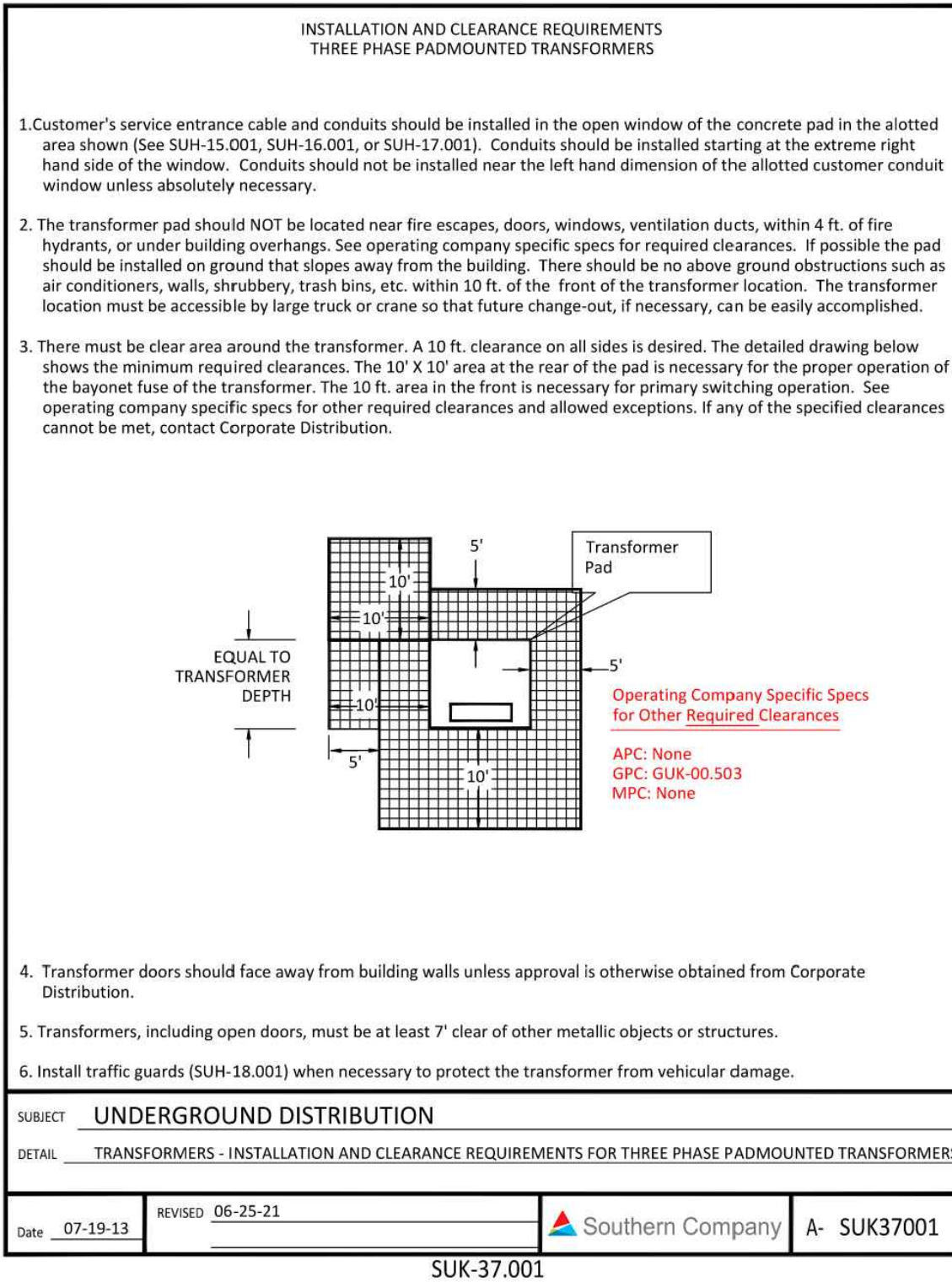
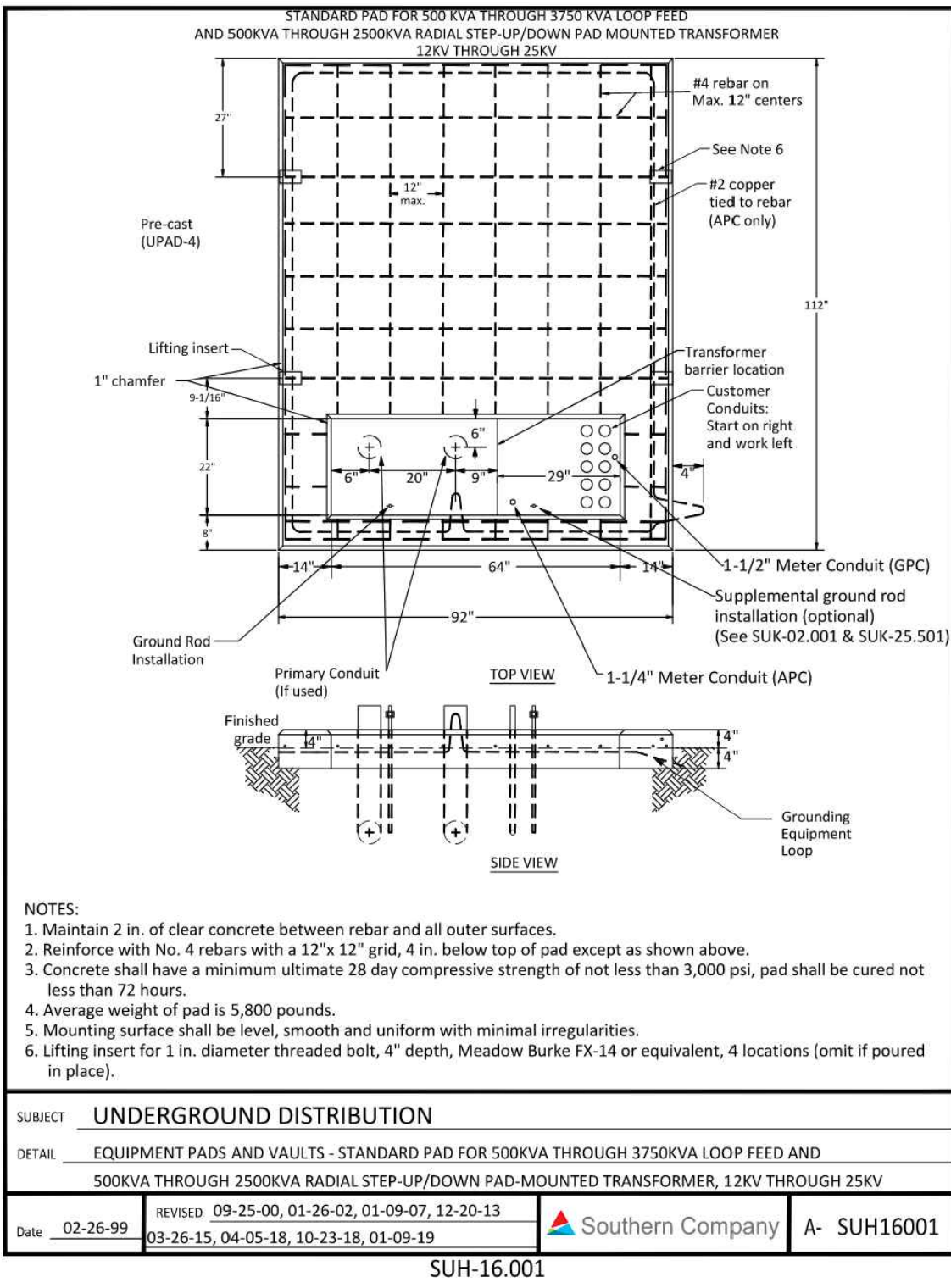
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#### GENERAL ELECTRIC NOTES

- ALL UNDERGROUND CONDUITS SHALL BE NON CONDUCTIVE PVC AND GROUNDED PER NEC CODE.
- ALL DEVICES AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT TO BE GROUNDED AS PER NEC CODE.
- COORDINATE EXACT LOCATIONS OF NEW EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.
- COORDINATE EXACT LOCATION OF NEW UTILITY TRANSFORMER WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
- ALL INSTALLATIONS SHALL BE COMPLETED IN COMPLIANCE WITH LOCAL CODES AND NFPA SECTION 625.
- IF ELECTRICAL WIRING DISTANCE EXCEEDS WHAT IS REFERENCED IN VOLTAGE DROP TABLE AND CAUSES THE VOLTAGE DROP TO EXCEED 3% BETWEEN ANY ELECTRICAL EQUIPMENT, PLEASE CONTACT THE ENGINEER OF RECORD. FEEDER WIRE SIZE WILL NEED TO BE INCREASED IN ORDER TO ENSURE VOLTAGE DROP NEVER EXCEEDS 3%.
- REFER TO PEDESTAL AND EV CHARGER MANUFACTURER'S INSTALLATION GUIDES PRIOR TO ROUGH-IN AND INSTALL AS DIRECTED.
- ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONTRACTOR SHALL USE ENT INSIDE AND OUTSIDE ABOVE GRADE WHERE NOT SUBJECT TO DAMAGE. CONTRACTOR SHALL RIG INSIDE AND OUTSIDE ABOVE GRADE WHERE SUBJECT TO CONTRACTOR SHALL USE PVC SCHEDULE 80 BELOW GRADE.
- CONTRACTOR TO LOCATE JUNCTION BOX, LINE BOX (LB), OR APPROVED ALTERNATIVE FOR SITE SPECIFIC RUN LENGTHS AND BENDS.



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RACETRAC ELECTRIC VEHICLE CHARGING STATION PROGRAM

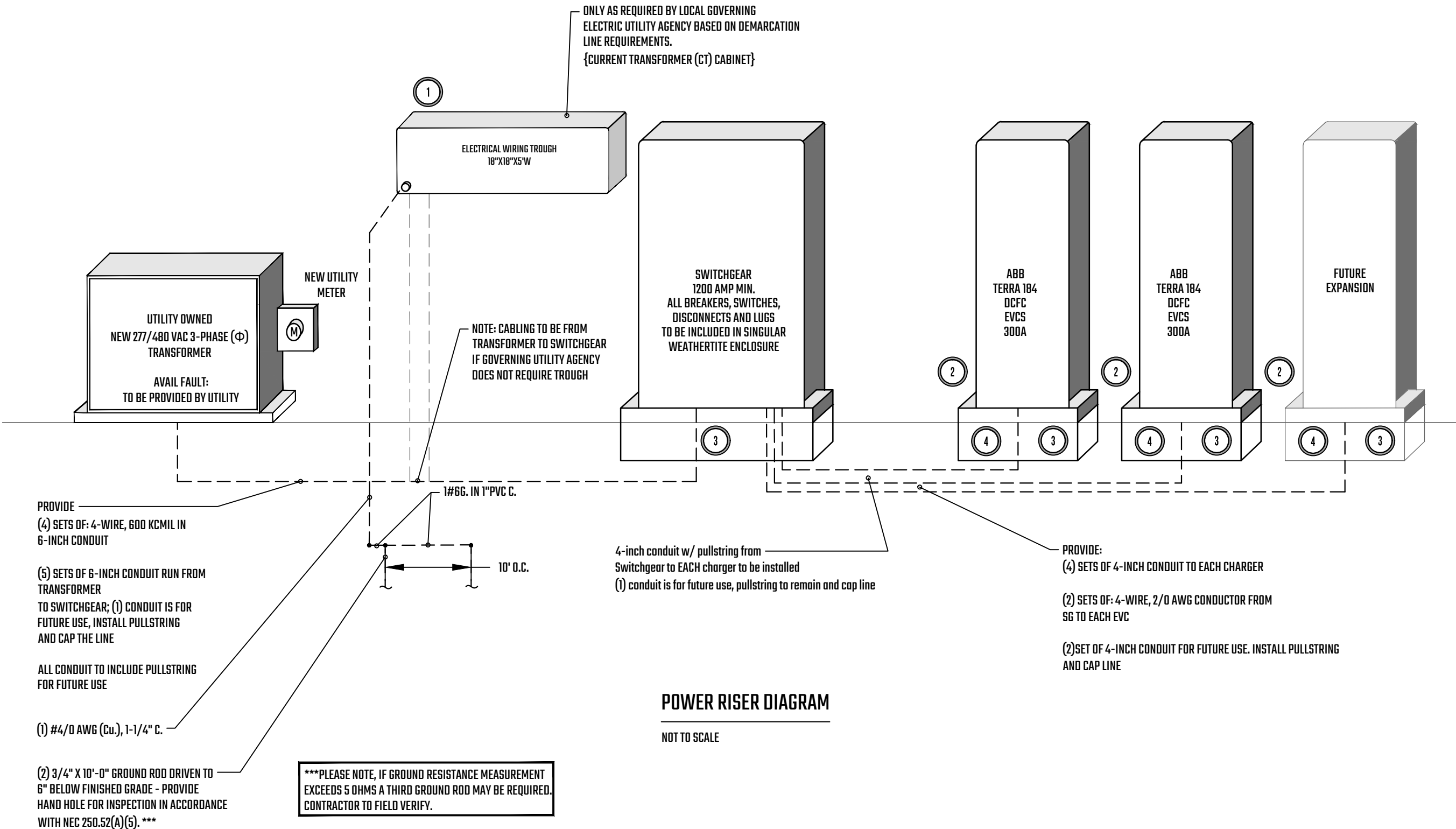


Project Location

1461 VETERANS MEMORIAL HWY  
MAPLETON, GA 30126  
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STORE NAME: OAKDALE ROAD

Sheet Name

ELECTRICAL NOTES & DETAILS

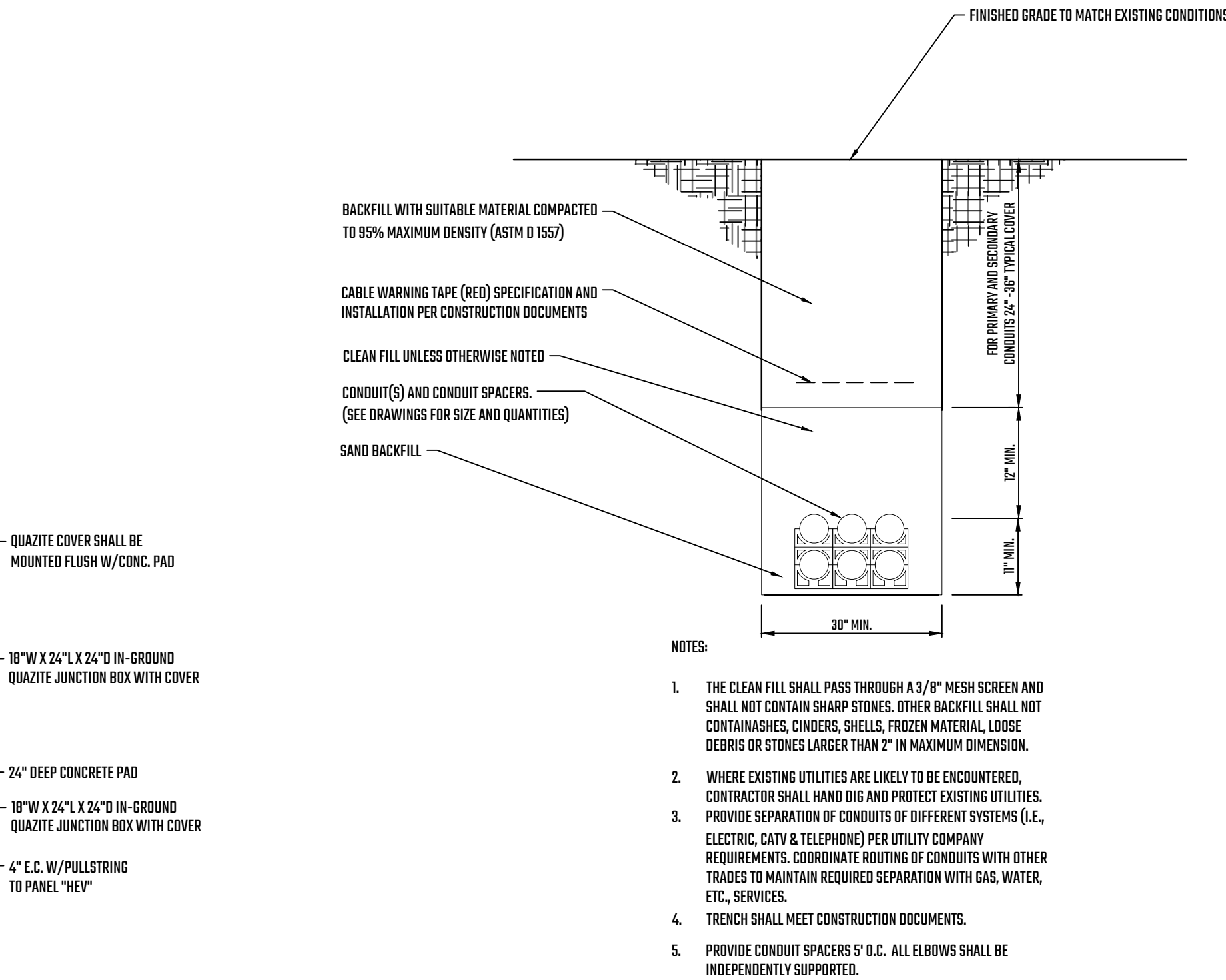


#### POWER RISER DIAGRAM

NOT TO SCALE

#### KEYNOTES (POWER RISER)

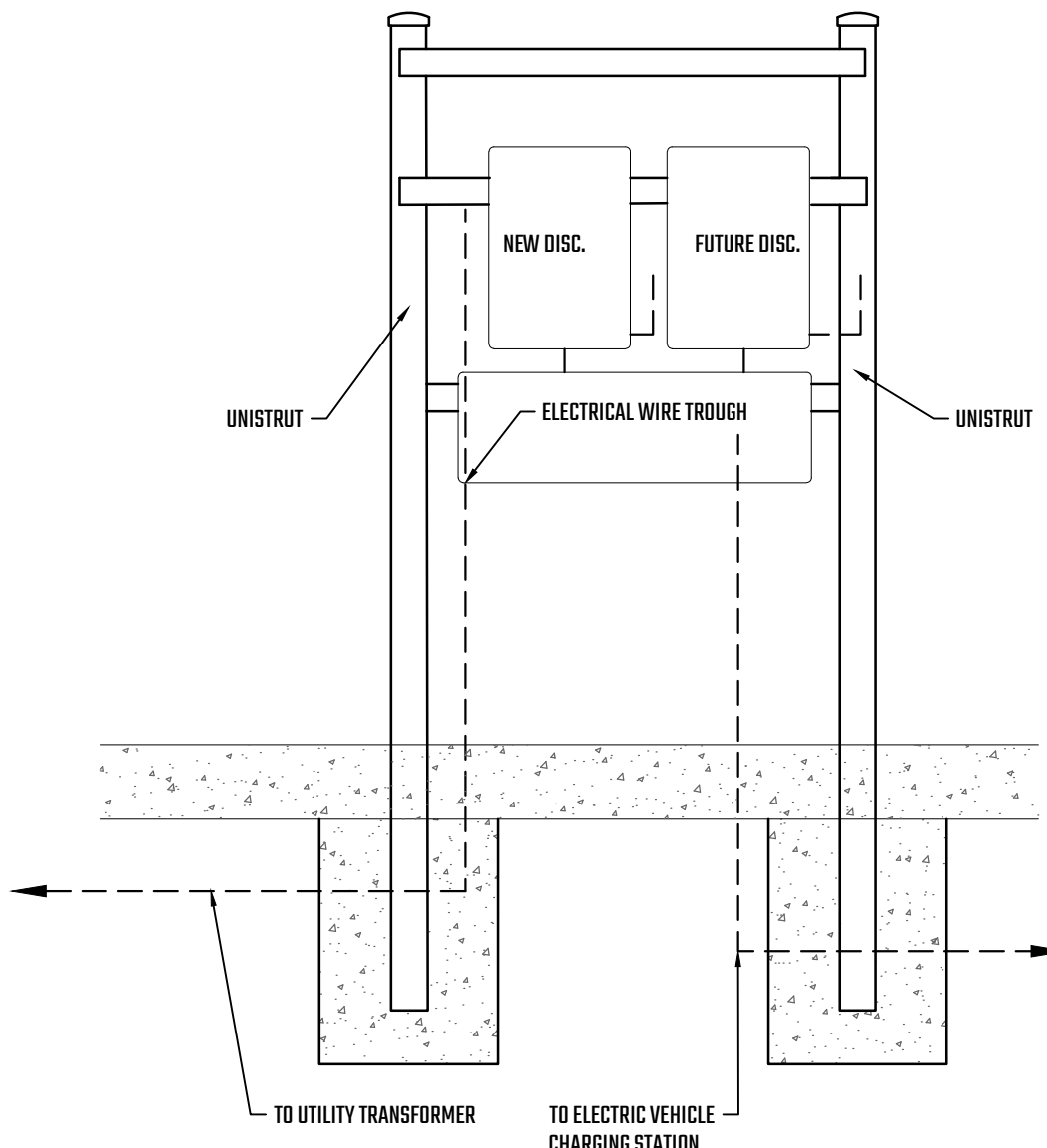
- MOUNT THIS DEVICE ON UNISTRUT, SEE DETAIL THIS SHEET.
- PROVIDE AND INSTALL HAND HOLE AT THE BASE OF EACH EVG EQUIPMENT STATION.
- PROVIDE AND INSTALL 5'W X 3'0" X 24"-0" CONCRETE HOUSEKEEPING PAD, TOP OF PAD SHALL BE FLUSH WITH GROUND.
- STURUP CONDUIT UNDER TROUGH DIRECTLY BENEATH WHERE THE FUTURE DISCONNECT WILL BE LOCATED. CAP END.
- ALL EQUIPMENT TO BE GROUNDED AS PER NEC CODE. FOR ANY DISCREPANCIES CONTACT THE ENGINEER OF RECORD



#### TYPICAL DUCT BANK DETAIL

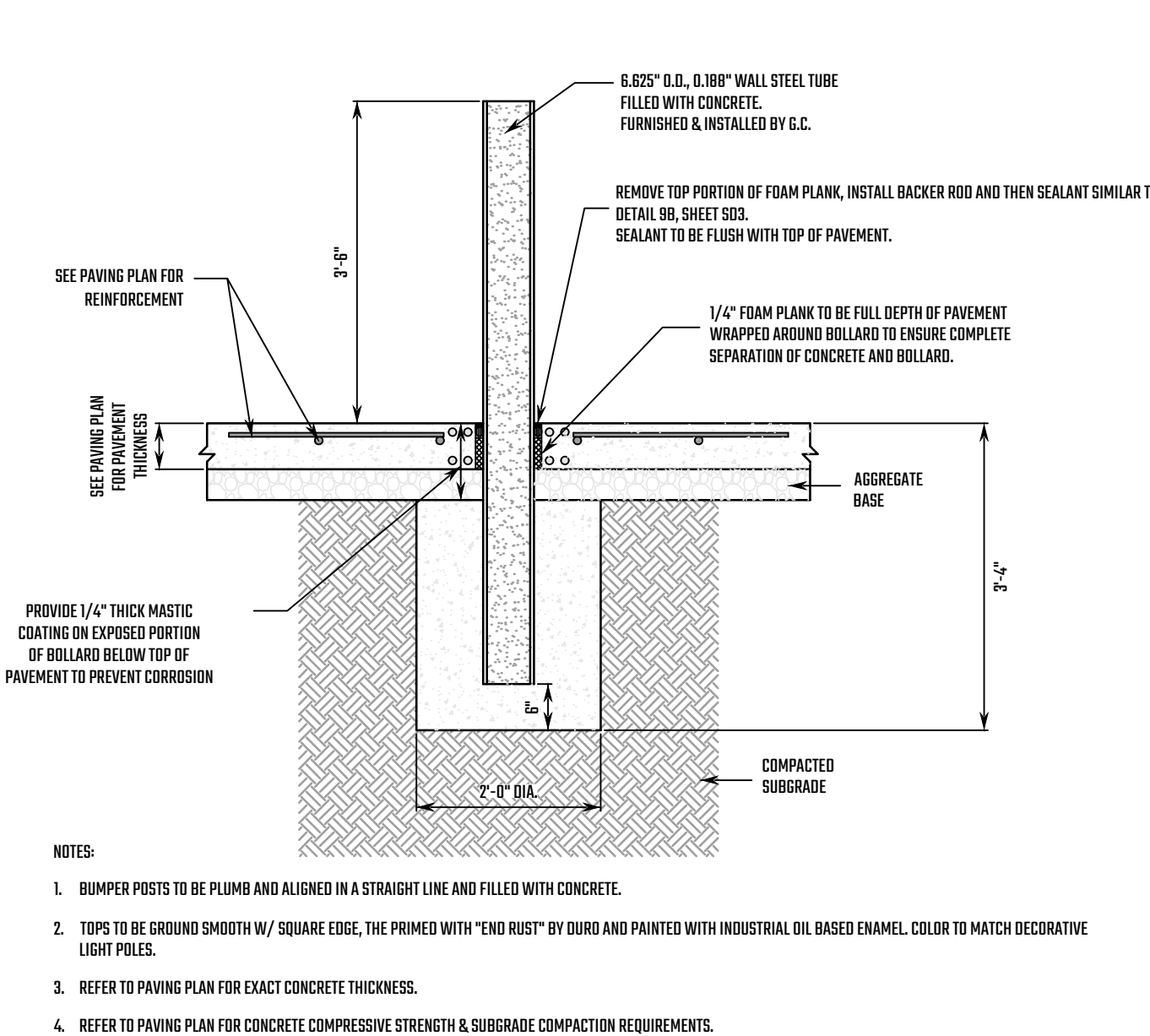
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NOTE: CONTRACTOR TO REFERENCE DETAIL IN DUCT BANK INSTALLATION IF PERFORMED INSTEAD OF DIRECTION BORE.



#### UNISTRUT DIAGRAM

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(ONLY AS REQUIRED BY LOCAL GOVERNING ELECTRIC UTILITY AGENCY)



#### CANOPY BOLLARD DETAIL

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#### Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date:

03/28/2024

Reviewed By:

BF

ENG/CADD:

BH

Checked By:

KMA

PE Project No.

23-0013.031

Sheet No.

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SURFACE MOUNTED					LOAD DATA "A" - Utility Transformer (TRF) to Switchgear (SG)										MAIN BKR MAIN LUGS		1600 4				
480 / 277	VAC, WYE, 3ø	4W (with grounding where required)																			
LUG NO.	***TRIP AMP***	LUG PER ø (L1, L2, L3)	**CONDUCTOR* *	*GND WIRE*	COND	SERVES	LOAD V.A. w/ 25% Per NEC (Continuous Load for EV)														
TRX LUG SET #1	1600	#1 / #2 / #3	600 KCMIL	#4/0	6"	SG#1 **	1330176														
TRX LUG SET #2	1600	#1 / #2 / #3	600 KCMIL	#4/0	6"	SG#1 **															
TRX LUG SET #3	1600	#1 / #2 / #3	600 KCMIL	#4/0	6"	SG#1 **															
TRX LUG SET #4	1600	#1 / #2 / #3	600 KCMIL	#4/0	6"	SG#1 **															
* WHEN REQUIRED *																					
** (4) sets of conductors from Tranformer to Switchger; Power being run in parallel **																					
*** TRIP AMP ESTABLISHED BY: 1200A USABLE x 25% FOR CONTINUOUS LOAD = 1500A, NEXT STANDARD SIZE UP IS 1600A ***																					
TOTAL CONNECTED LOAD (TRANSFORMER OVERSIZED FOR FUTURE CAPACITY. SEE BELOW LOAD DATA "B" FOR ACTUAL):  1330 KVA @ 1600 AMPS						CONNECTED V.A. PER PHASE		443392		443392		OVERALL:		1330176	KVA	1662720	KVA W/25% SAFETY CONTINUOUS LOAD PER NEC				
										443392	RECEPT:		N/A	KVA	N/A	KVA					
TRANSFORMER REQUIRED: 1500 KVA						CONNECTED AMPS PER PHASE		1600	1600	1600		A/C:		N/A	KVA	N/A	KVA				
								MISC:		N/A	KVA	N/A	KVA								

SURFACE MOUNTED					LOAD DATA "B" PANEL - Electrical Contactors within Switchgear to Chargers (STANDARD)										MAIN BKR MAIN LUGS		- -			
480 / 277	VAC, WYE, 3ø	4W (with grounding where required)			UTILIZATION OF CONTACTS WITHIN VENDOR SWITCHGEAR															
POLE NO.	TRIP AMP	BKR POLE	CONDUCTOR**	GND WIRE*	COND	SERVES	LOAD V.A.			POLE NO.	TRIP AMP	BKR POLE	CONDUCTOR**	GND WIRE*	COND	SERVES				
1	300	3	2 / 0	3 AWG	4"	Charger #1	83136.00	83136.00	83136.00	2	300	3	2 / 0	3 AWG	4"	Charger #2				
3										4										
5										6										
7						ADDITIONAL FUTURE CHARGER/BATTERY CAPACITY	0.00	0.00	0.00	8						ADDITIONAL FUTURE CHARGER/BATTERY CAPACITY				
9										10										
11										12										
* WHEN REQUIRED																				
** UTILIZING (2) SETS OF PARALLEL CONFIGURED CONDUCTORS. CONTACT ENGINEER OF RECORD FOR ANY REQUESTS OR CHANGES TO THIS CONFIGURATION																				
TOTAL CONNECTED LOAD (w/25% NEC):						CONNECTED V.A. PER PHASE (ALL Chargers)		166272	166272	166272	CHARGERS ONLY:		499	KVA	623.52	KVA W/25% SAFETY CONTINUOUS LOAD PER NEC				
											RECEPT:		N/A	KVA	N/A	KVA				
624			KVA			CONNECTED AMPS PER PHASE		300	300	300	A/C:		N/A	KVA	N/A	KVA				
								MISC:		N/A	KVA	N/A	KVA							



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RACETRAC ELECTRIC VEHICLE  
CHARGING STATION PROGRAM



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STORE NAME OAKDALE ROAD

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ELECTRICAL LOAD SHEETS

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Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date: 03/28/2024

Reviewed By: BF

ENG/CAAD: BH

Checked By: KMA

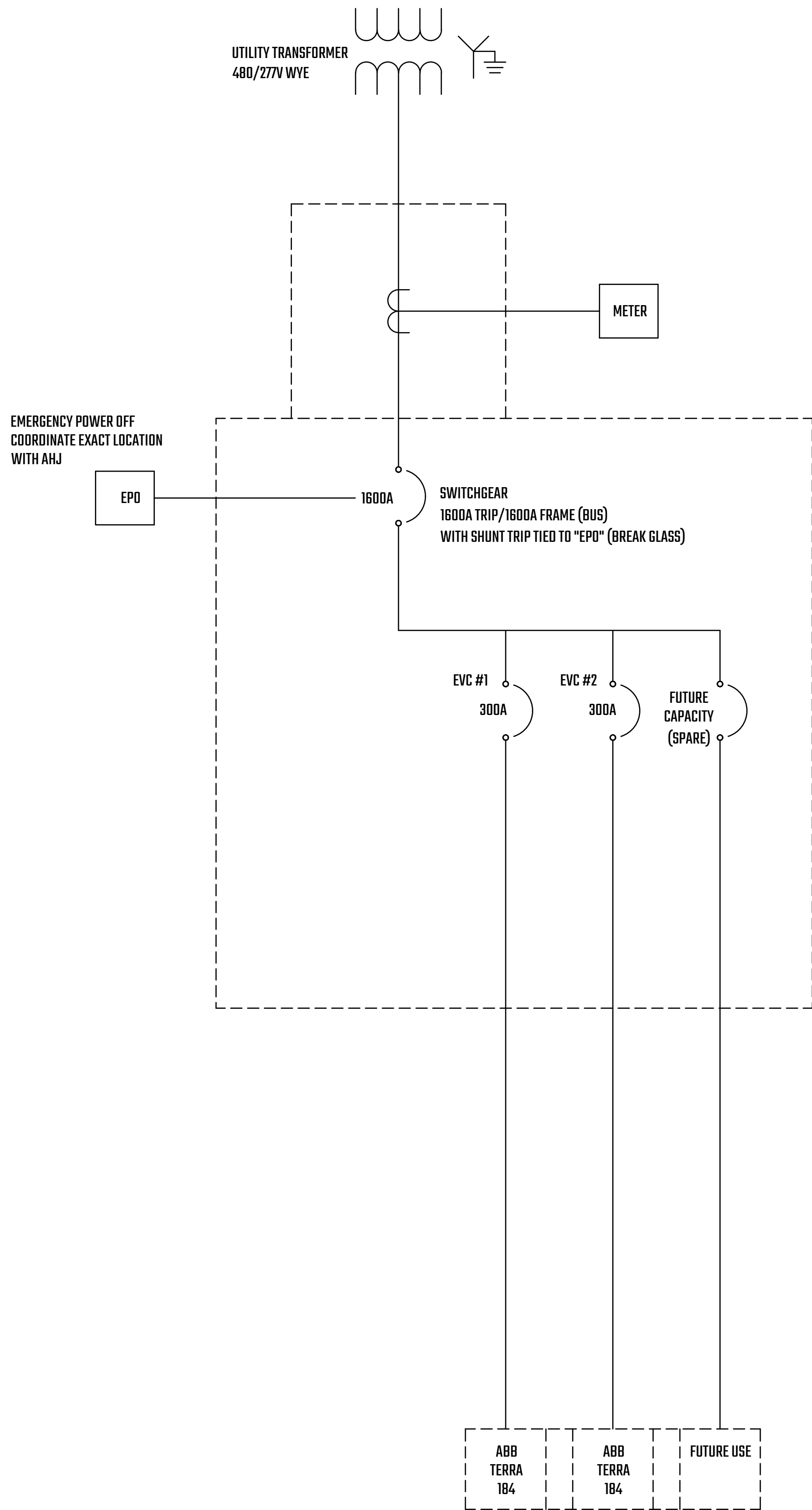
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PROJECT AND EQUIPMENT DESCRIPTION(S):

1. SWITCHGEAR FOR 480VAC, 3-PHASE, WYE CONFIGURED, USABLE 1600 AMPS WITH 1600 AMP BUS FOR CONTINUOUS SERVICE.
2. ALL BREAKERS, DISCONNECTS, PANELS, CONDUCTOR/WIRE TROUGHS TO BE PROVIDED IN SINGLE WEATHERTIGHT ENCLOSURE, NEMA 3R OR BETTER.
3. EQUIPMENT BREAKERS ARE TO BE TOGGLE/DIP SWITCH STYLE, AND BE PROVIDED WITH SETTING RANGE OF MAX AMPERAGE TO 60% OF MAX FOR MINIMUM AMP SETTING
4. THERMAL MAGNETIC BREAKERS ACCEPTED FOR MAINS ONLY.
5. CONSISTENT AMP FRAME (AF) SIZE REQUIRED FOR ALL EQUIPMENT BREAKER SERVICE. EQUIPMENT BREAKERS AMP FRAME ARE TO BE SIZED FOR MINIMUM & MAXIMUM AMP TRIP (AT) SERVICE WITHOUT REQUIRED HARDWARE CHANGES FOR FUTURE ELECTRICAL CHANGES.
6. REFERENCE SHEET E500 FOR ADDITIONAL (AT) REQUIREMENTS
7. EACH EVC BREAKER TO POWER CYCLE ON/OFF. PROVIDE MOTOR OPERATED BREAKER WITH ON/OFF COIL.
8. ELECTRICAL DISCONNECT (KILL SWITCH / E-STOP / EPO) SHUNT TRIP MAIN TO BE PROVIDED FOR EMERGENCY USE.
9. 300 AMP BRANCH BREAKERS TO MATCH ELECTRICAL SERVICE, PHASE, AND CONFIGURATION OF SYSTEM.
10. EQUIPMENT TO BE SERVICE ENTRANCE RATED, MAIN BONDING JUMPER TO BE PROVIDED.
11. MAIN SERVICE DISCONNECT TO BE PROVIDED WITH GROUND FAULT PROTECTION.



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SWITCHGEAR DETAIL

ISSUED FOR  
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Revisions

REV	ISSUED FOR	ISSUE DATE	BY

Date:

03/28/2024

Reviewed By:

BF

ENG/CAAD:

BH

Checked By:

KMA

PE Project No.

23-0013.031

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