LAKE CITY, FL - US HWY 41 (BUSY BEE #7)

TRT ID: 59032
SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SITE INFORMATION

PROPOSED TESLA EV SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

PROPERTY OWNER:
THE KINJAC CORPORATION
PO BOX 157
MADISON, FL 32341

PARCEL ID:
PARCEL ID: 113S1602063000, 113S1602063001

POWER COMPANY:
FPL
CONTACT: MEGAN BAILEY
PHONE: 954-956-2017
EMAIL: MEGAN.BAILEY@FPL.COM
WORK ORDER: TBD

COUNTY:
COLUMBIA COUNTY

LATITUDE*:
30° 14' 47.3" N

LONGITUDE*:
82° 40' 35.5" W
*BASED ON GOOGLE EARTH

CONTACT ENGINEER:
NATHAN R. KREUSER, P.E.
DEWBERRY ENGINEERS INC.
(321) 354-9755
NKREUSER@DEWBERRY.COM

ZONING INFORMATION

PERMITTING JURISDICTION: COLUMBIA COUNTY

APN: 113S1602063000, 113S1602063001

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

FLORIDA STATE UNIFORM BUILDING & ENERGY CODES, CONSISTENT WITH THE FOLLOWING CODES:

2023 FBC-BUILDING, 8TH EDITION - (IBC 2021 WITH AMENDMENTS).
2023 FBC-ENERGY CONSERVATION, 8TH EDITION (IECC 2021 WITH AMENDMENTS).
2020 NATIONAL ELECTRIC CODE (NEC) WITH AMENDMENTS.
8TH EDITION OF THE FLORIDA FIRE PREVENTION CODE.

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

PROJECT DESCRIPTION

- INSTALL PAD MOUNTED UTILITY TRANSFORMER
- INSTALL (3) TESLA PRE-ASSEMBLED SUPERCHARGER UNITS, EACH WITH (1) SUPERCHARGER CABINET, (1) 600A SERVICE DISCONNECT & (4) CHARGE POSTS
- INSTALL (1) TESLA CHARGE POST MOUNTED ON CAST-IN-PLACE FOUNDATION FOR ADA STALL
- INSTALL (2) 20' LIGHT POSTS

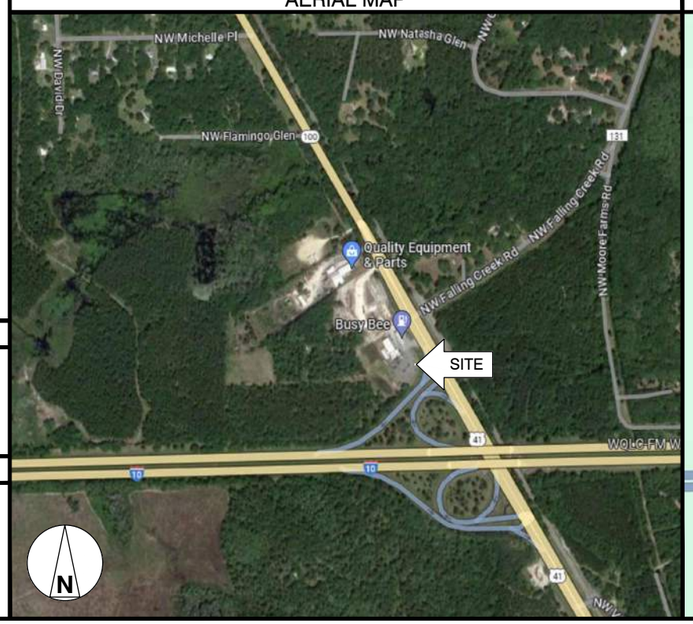
STRUCTURAL DESIGN CRITERIA

WIND DESIGN DATA:
- ULTIMATE WIND SPEED = 109 MPH
- RISK CATEGORY: I
- WIND IMPORTANCE FACTOR: I = 1.0
- WIND EXPOSURE CATEGORY: C

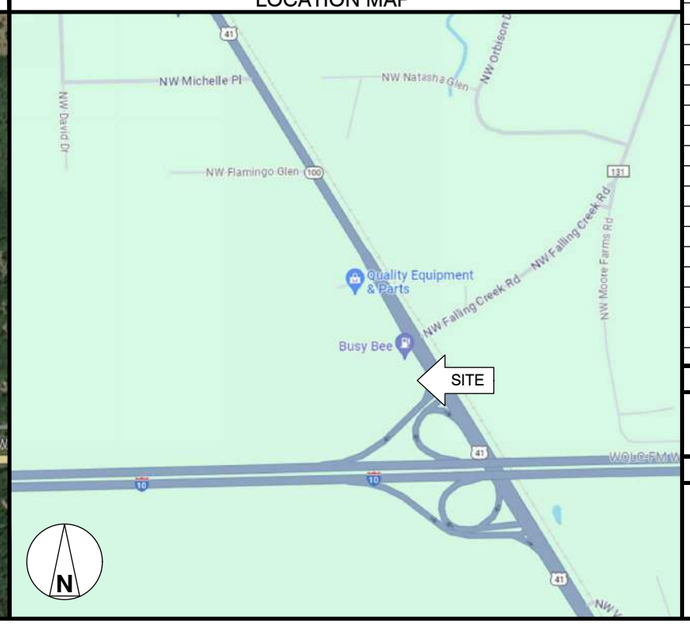
SEISMIC DESIGN DATA:
- RISK CATEGORY: I
- SEISMIC IMPORTANCE FACTOR: I = 1.0
- SITE CLASS: D (ASSUMED)
- MAPPED SPECTRAL RESPONSE COEFFICIENTS: S_S = 0.13 S1 = 0.06
- DESIGN SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 0.11 S_{D1} = 0.085
- SEISMIC DESIGN CATEGORY: B

ASSUMED SOIL PROPERTIES:
- ALLOWABLE BEARING PRESSURE: 1,500 PSF
- ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF/FT

AERIAL MAP



LOCATION MAP



DRAWING INDEX

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C-3	EQUIPMENT/PARKING PLAN
C-4	CONSTRUCTION DETAILS I
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C-6	CONSTRUCTION DETAILS III
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BEFORE SCALING

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE TESLA REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL BEFORE YOU DIG

Sunshine 811

SUNSHINE 811

811 OR (813) 223-0800

TESLA

3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry

Dewberry Engineers Inc.
800 NORTH MAGNOLIA AVE.
SUITE 1000
ORLANDO, FL 32803
PHONE: 407.843.5120
FAX: 407.649.8664
FLORIDA C.O.A. #8794

NATHAN ROBERT KREUSER
LICENSE
NO. 91003
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Nathan R Kreuser
This document has been electronically signed and sealed by Nathan Kreuser PE (No. 91003 - State of Florida) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies
2024.02.02 13:48:21-05'00'

DRAWN BY:	HMP
CHECKED BY:	BG
APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

SITE NAME:
LAKE CITY, FL - US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   GENERAL CONTRACTOR(s) OR SUB–CONTRACTOR(s) – CIVIL CONTRACTOR AND/OR ELECTRICIAN CONTRACTOR
   PROJECT OWNER/CONSTRUCTION MANAGER – TESLA
   PROJECT HOST – LEGAL PROPERTY OWNER
   ENGINEER – DEWBERRY ENGINEERS INC.

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE INSTALLATION AS INDICATED ON THE DRAWINGS FOR A FULLY FUNCTIONAL CHARGING STATION AND COMPLETE PROJECT.

6. THE SUB–CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON DRAWINGS, THE GENERAL CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE PROJECT ENGINEER. ONLY WRITTEN APPROVALS SHALL BE DEEMED TO CONFIRM ANY SUCH CHANGES AS BEING APPROVED.

8. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT UNIQUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK.

9. THE GENERAL CONTRACTOR SHALL REVIEW ROUTING OF CONDUIT, POWER AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING PLAN DRAWING. THE GENERAL CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER AND PROJECT HOST.

10. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE PROJECT HOST. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF GENERAL CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.

12. APPLICABLE BUILDING CODES:
    THE GENERAL CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
    THE GENERAL CONTRACTOR WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

    AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
    AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
    MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION

13. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

14. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.

15. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER GENERAL CONTRACTOR(S) AND/OR SUB–CONTRACTOR(S).

16. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.

17. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND GENERAL CONTRACTOR(S) AND/OR SUB–CONTRACTOR(S) TO THE SITE AND/OR BUILDING.

18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.

19. THE GENERAL CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

20. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE PROJECT HOST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

21. THE GENERAL CONTRACTOR AND SUB–CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.

22. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2–A OR 2–A:10–B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.

23. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE PROJECT OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.

24. GENERAL CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS–BUILT REDLINES AND ALL SPECIFIED CLOSE–OUT DOCUMENTATION TO THE PROJECT OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.

25. THE GENERAL CONTRACTOR SHALL LEAVE THE WORK AREA AND SURROUNDING PREMISES IN A CLEAN CONDITION.

26. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).

27. NO TRASH CORRAL/SOLID WASTE STORAGE AREA IS TO BE INSTALLED AS PART OF PROJECT.

SITE WORK NOTES:

PART 1 – GENERAL

1.1 REFERENCES:
- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION–CURRENT EDITION).
- B. AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS)
- C. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- D. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:
- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE GENERAL CONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND VERIFIED FOR CONFORMANCE AND RELEASED BY THE ENGINEER WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE GENERAL CONTRACTOR(S) RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:
- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE AND TAKE PROTECTIVE MEASURES TO THE SITE AND TO EXISTING FACILITIES, IMPROVEMENTS, STRUCTURES, PAVEMENTS, CURBS, AND LANDSCAPING DESIGNATED TO REMAIN. ANY DAMAGED PART SHALL BE REPAIRED AT SUB–CONTRACTOR(S) EXPENSE TO THE SATISFACTION OF THE PROJECT HOST.
- C. KEEP SITE FREE OF ALL PONDING OR STANDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES, IF REQUIRED, SHALL BE IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUB–CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE GENERAL CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- G. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE PROJECT OWNER AND/OR LOCAL UTILITIES.
- H. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE PROJECT HOST OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE PROJECT HOST AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- I. PROVIDE A MINIMUM 48–HOUR NOTICE TO THE PROJECT HOST AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
- J. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- K. THE GENERAL CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, RUBBISH, DEBRIS, STUMPS, STICKS, AND STONES.
- L. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH DEBRIS FROM THE SITE ON A DAILY BASIS.
- M. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT TREES, VEGETATION, AND ROOT SYSTEMS DURING CONSTRUCTION.
- N. CONTRACTOR TO COORDINATE POST CONSTRUCTION LANDSCAPING FINISHES WITH OWNER AND TESLA.

PART 2 – PRODUCTS

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE	TOTAL PERCENT PASSING
1–1/2 INCH	100
1 INCH	75 TO 100
3/4 INCH	80 TO 100
3/8 INCH	35 TO 75
NO. 4	30 TO 60
NO. 30	7 TO 30
NO. 200	3 TO 15

2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL–GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW–SM).

2.3 ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS SHALL BE SELECT STRUCTURAL FILL MEETING THE GRADATION AND SOUNDNESS REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING:

SIEVE SIZE	TOTAL PERCENT PASSING
4 INCH	100
NO. 40	0 TO 70
NO. 200	0 TO 40

2.4 MATERIALS SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER SOFT, POOR DURABILITY PARTICLES. IF TESTING IS ELECTED BY PROJECT OWNER, MATERIAL WITH A MAGNESIUM SULFATE SOUNDNESS LOSS EXCEEDING 30% WILL BE REJECTED.

2.5 COARSE AGGREGATE FOR SUBBASE COURSE SHALL CONFORM TO ASTM D2940.

2.6 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE ENGINEER. TYPICALLY THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

PART 3 – EXECUTION

3.1 GENERAL:
- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF A RAIN EVENT, NO SEDIMENT WILL LEAVE THE WORK SITE.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR UNDESIRABLE MATERIALS.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH GRANULAR FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE ENGINEER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF–SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE SUB–CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- K. WHEN DIRECTIONAL BORING IS REQUIRED, SUB–CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.

3.2 BACKFILL:
- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST–IN–PLACE CONCRETE, BACKFILL THE EXCAVATION WITH SPECIFIED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 12–INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12–INCHES IN LOOSE DEPTH AND COMPACTED.
- E. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.
- F. WHENEVER THE DENSITY TESTING INDICATES THAT THE SUB–CONTRACTOR(S) HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE SUB–CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- G. THE SUB–CONTRACTOR SHALL OBTAIN GRAB SAMPLES OF SUFFICIENT QUANTITY TO PROVIDE TO LAB FOR PURPOSE OF DETERMINING MAX DRY DENSITY. ALL LOOSE AND/OR ORGANIC MATERIAL SHALL BE REMOVED PRIOR TO PREPARATION OF THE AREA FOR PLACEMENT OF STRUCTURAL BACKFILL. OVERALL PLAN AREA OF WORK SHALL EXTEND 3'–0" MINIMUM BEYOND THE FINAL DIMENSIONS.
- H. SCARIFY THE EXISTING SOILS TO A DEPTH OF 6" AND RE–COMPACT USING A VIBRATING PLATE OR TAMPER, ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.
- I. PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE IN 12" LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.

3.3 TRENCHING EXCAVATION:
- J. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- K. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- L. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR MATERIAL.

3.4 TRENCHING BACKFILL:
- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6–INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS AND HAUNCHES.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 12–INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.
- H. PER LOCAL REGULATORY AUTHORITY AND AS APPLICABLE, ALL TRENCHES IN PUBLIC RIGHT–OF–WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE–APPROVED BY THE LOCAL JURISDICTION.

3.5 FINISH GRADING:
- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL MATCH SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE GRANULAR FILL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL OR BETTER CONDITION.
- D. AREAS OF THE PROJECT HOST'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR PARKING/DRIVING AREAS SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.

3.6 ASPHALT PAVING ROAD:
- A. AASHTO
- B. STATE SPECIFIC ASPHALT SPECIFICATIONS FOR HIGHWAYS
- C. THE SUB–CONTRACTOR IS RESPONSIBLE FOR RE–STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.

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NATHAN ROBERT KREUSER LICENSE NO. 94003 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nathan R Kreuser
This document has been digitally signed and sealed by Nathan Kreuser PE (No. 94003 - State of Florida) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies
2024.02.02 13:48:22-05'00'

DRAWN BY:	HMP
CHECKED BY:	BG
APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

SITE NAME:
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
GENERAL NOTES I

SHEET NUMBER
GN–1

ELECTRICAL NOTES:

1. THE GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS. ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, SUB–CONTRACTOR SHALL NOTIFY THE PROJECT HOST AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE PROJECT HOST HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.

2. THE GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE SUB–CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE THE SUBCONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:

A. UL – UNDERWRITERS LABORATORIES
B. NEC – NATIONAL ELECTRICAL CODE
C. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA – OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
E. SBC – STANDARD BUILDING CODE
F. NFPA – NATIONAL FIRE PROTECTION ASSOCIATION

4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH ENGINEER ANY SIZES AND LOCATIONS WHEN NEEDED.

5. EXISTING SERVICES: THE GENERAL CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE PROJECT HOST.

6. THE GENERAL CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE GENERAL CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.

7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIED BY CONSTRUCTION MANAGER OR BY PROJECT DEVELOPER.

8. THE GENERAL CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE PROJECT HOST'S CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.

9. CONDUCTORS: THE CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN–2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.

10. ALL (THWN–2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. SUB–CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.

13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL SUB–CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY THE CONSTRUCTION MANGER.

14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

15. THE GENERAL CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.

16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.

17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.

18. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.

19. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

20. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE CONTRACTOR(S) RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER UPON FINAL ACCEPTANCE.

21. THE SUBCONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.

22. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY–DUTY, QUICK–MAKE AND QUICK–BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.

23. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI–OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.

24. ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL UNLESS SPECIFIED OTHERWISE. RACEWAYS: ALL CONDUITS SHALL BE SCHEDULE 40 EMT MEETING OR EXCEEDING NEMA TC2 – 1990 UNLESS SPECIFIED OTHERWISE. THE SUB–CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. EMT CONDUITS WHEN SPECIFIED, SHALL MEET UL–6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.

25. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.

26. CONNECTORS FOR POWER CONDUCTORS: SUB–CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST–ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.

27. THE SUB–CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC".

28. WHEN DIRECTIONAL BORING IS REQUIRED, SUB–CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.

29. ALL BOLTS SHALL BE STAINLESS STEEL.

30. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE SUBCONTRACTOR SHOULD BE NEW AND UNUSED.

31. PER NEC 625.22 – THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (SUPERCHARGER CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO ENSURE THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE OR CURRENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TESLA VEHICLE. THERE IS A "HANDSHAKE" BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING. VOLTAGE IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE READING FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT BEGINS TO FLOW. IF AT ANY POINT IN THIS PROCESS A FAULT IS DETECTED, THE CHARGING WILL STOP IMMEDIATELY, WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ANY FAULT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS OF DETECTION. BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM OVER–CURRENT OR OVER–VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING FUSES ALSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

REINFORCED CONCRETE NOTES:

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

2. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY–MIX CONCRETE AT THE JOB SITE. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.

3. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR–ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS (UNLESS OTHERWISE NOTED). ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".

5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 615, GRADE 60
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON–CHLORIDE CONTAINING

6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH "DETAILING MANUAL–2004 PUBLICATION SP–66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI–318–08.

7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B"; ALL HOOKS SHALL BE STANDARD, UNO.

8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH:	3 IN.	
CONCRETE EXPOSED TO EARTH OR WEATHER:	#6 AND LARGER	2 IN.
	#5 AND SMALLER & WWF	1–1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	SLAB AND WALL	3/4 IN.
	BEAMS AND COLUMNS	1–1/2 IN.

9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

10. INSTALLATION OF CONCRETE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.

11. CURING COMPOUNDS SHALL CONFORM TO ASTM C–309.

12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI–301.

13. DO NOT WELD OR TACKWELD REINFORCING STEEL.

14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

15. LOCATE ADDITIONAL EXPANSION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.

16. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.

17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.

18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.

19. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.

20. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT. FOR COLD–WEATHER AND HOT–WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

21. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.

22. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

TRAFFIC MANAGEMENT NOTES:

1. ALL TEMPORARY CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.

2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.

3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.

5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).

6. CONTRACTORS SHALL NOTIFY THE OWNER AND ALL TENANTS OF THIS PROPERTY AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.

7. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.

8. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

9. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.

10. EXISTING PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES THROUGH A COMBINATION OF PEDESTRIAN DETOURS OR PROTECTED SAFE ROUTES. ALL PEDESTRIAN ROUTES SHALL MEET APPLICABLE ACCESSIBILITY REQUIREMENTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION AT THIS LOCATION. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS, DRUMS, CONES, OR OTHER TRAFFIC CONTROL DEVICES TO DIRECT VEHICLES AND PEDESTRIANS AROUND THE WORK ZONE.

HORIZONTAL DIRECT DRILLING NOTES:

1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING AND INSTALLING UNDERGROUND UTILITIES USING THE DIRECTIONAL BORING (HORIZONTAL DIRECTIONAL DRILLING, HDD) METHOD OF INSTALLATION, ALSO COMMONLY REFERRED TO AS GUIDED HORIZONTAL BORING. THIS WORK SHALL INCLUDE ALL SERVICES, EQUIPMENT, MATERIALS, AND LABOR FOR THE COMPLETE AND PROPER INSTALLATION, TESTING, RESTORATION OF UNDERGROUND UTILITIES AND ENVIRONMENTAL PROTECTION AND RESTORATION.

2. WORK PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MUST SUBMIT TO THE ENGINEER A GENERAL WORK PLAN OUTLINING THE PROCEDURE AND SCHEDULE TO BE USED TO EXECUTE THE PROJECT. PLAN SHOULD DOCUMENT THE THOUGHTFUL PLANNING REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT.

3. ENVIRONMENTAL PROTECTION: CONTRACTOR SHALL PLACE SILT FENCE BETWEEN ALL BORING OPERATIONS AND ANY DRAINAGE, WETLAND, WATERWAY OR OTHER AREA DESIGNATED FOR SUCH PROTECTION BY CONTRACT DOCUMENTS, STATE, FEDERAL AND LOCAL REGULATIONS. ADDITIONAL ENVIRONMENTAL PROTECTION NECESSARY TO CONTAIN ANY HYDRAULIC OR BORING FLUID SPILLS SHALL BE PUT IN PLACE, INCLUDING BERMS, LINERS, TURBIDITY CURTAINS AND OTHER MEASURES. CONTRACTOR SHALL ADHERE TO ALL APPLICABLE ENVIRONMENTAL REGULATIONS. FUEL OR OIL MAY NOT BE STORED IN BULK CONTAINERS WITHIN 200' OF ANY WATER–BODY OR WET–LAND.

4. UTILITY LOCATES: CONTRACTOR SHALL NOTIFY ALL COMPANIES WITH UNDERGROUND UTILITIES IN THE WORK AREA VIA THE STATE OR LOCAL 'ONE–CALL' TO OBTAIN UTILITY LOCATES. ONCE THE UTILITIES HAVE BEEN LOCATED CONTRACTOR SHALL PHYSICALLY IDENTIFY THE EXACT LOCATION OF THE UTILITIES BY VACUUM OR HAND EXCAVATION, WHEN POSSIBLE, IN ORDER TO DETERMINE THE ACTUAL LOCATION AND PATH OF ANY UNDERGROUND UTILITIES WHICH MIGHT BE WITHIN 20 FEET OF THE BORE PATH. CONTRACTOR SHALL NOT COMMENCE BORING OPERATIONS UNTIL THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA HAVE BEEN VERIFIED.

5. SAFETY: CONTRACTOR SHALL ADHERE TO ALL APPLICABLE STATE, FEDERAL AND LOCAL SAFETY REGULATIONS AND ALL OPERATIONS SHALL BE CONDUCTED IN A SAFE MANNER. SAFETY MEETINGS SHALL BE CONDUCTED AT LEAST WEEKLY WITH A WRITTEN RECORD OF ATTENDANCE AND TOPIC SUBMITTED TO ENGINEER.

6. SITE RESTORATION: FOLLOWING BORING OPERATIONS, CONTRACTOR WILL DE–MOBILIZE EQUIPMENT AND RESTORE THE WORK–SITE TO ORIGINAL CONDITION. ALL EXCAVATIONS WILL BE BACKFILLED AND COMPACTED TO 95% OF ORIGINAL DENSITY. LANDSCAPING WILL BE RESTORED TO ORIGINAL.

7. RECORD KEEPING: CONTRACTOR SHALL MAINTAIN A DAILY PROJECT LOG OF BORING OPERATIONS AND A GUIDANCE SYSTEM LOG WITH A COPY GIVEN TO ENGINEER AT COMPLETION OF PROJECT. AS–BUILT DRAWINGS SHALL BE CERTIFIED AS TO ACCURACY BY CONTRACTOR.

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NATHAN ROBERT KREUSER
LICENSE
NO. 94003
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Nathan R Kreuser
This document has been digitally signed and sealed by Nathan Kreuser PE No. 94003 - State of Florida) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies
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DRAWN BY:	HMP
CHECKED BY:	BG
APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

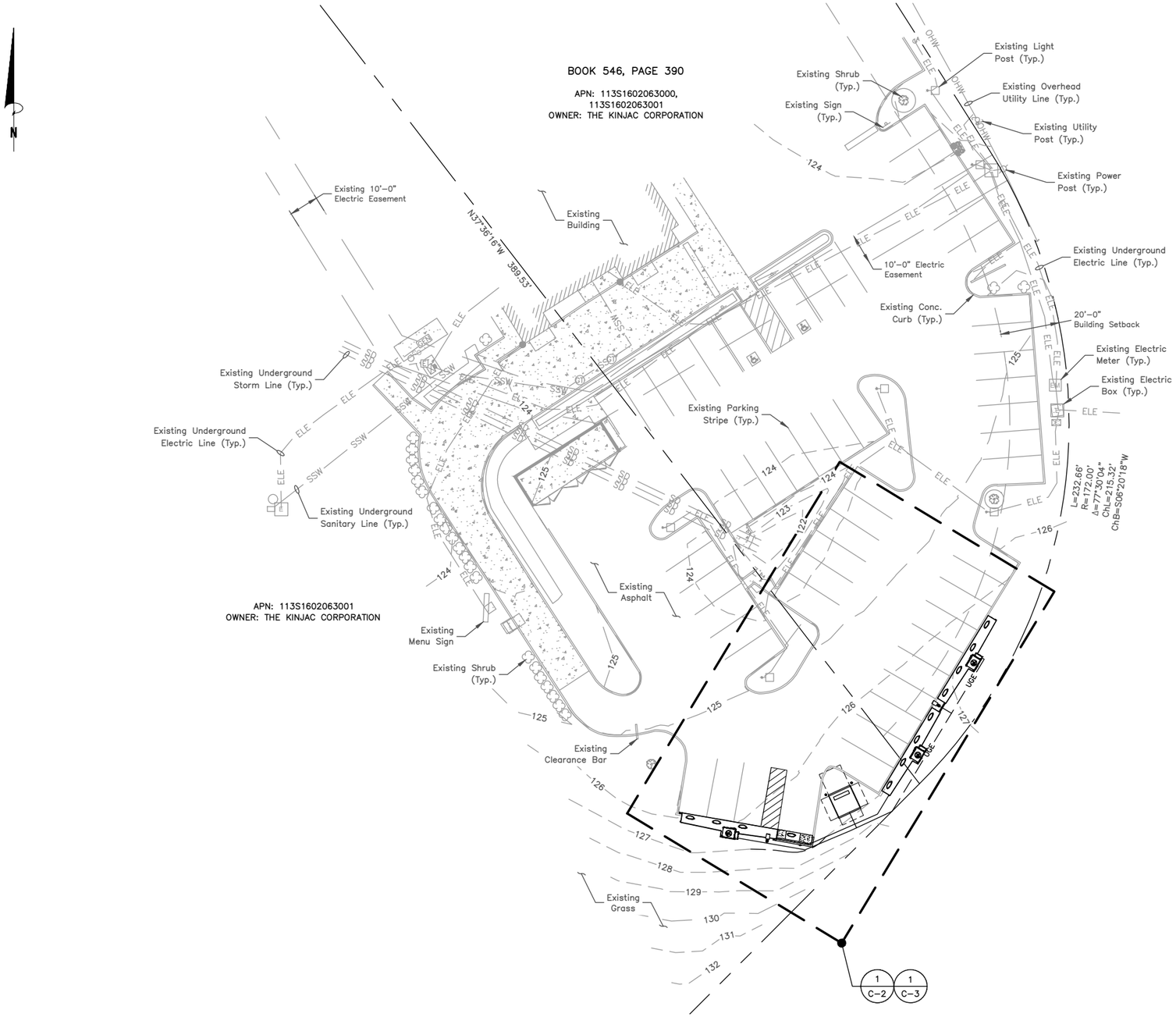
REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

SITE NAME:
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
GENERAL NOTES II

SHEET NUMBER
GN–2



DETAILED SITE PLAN 1

SCALE: 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"

0' 20' 40'

LEGEND

- SITE BENCHMARK
- SANITARY MANHOLE
- CLEANOUT
- GREASE TRAP
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC TRANSFORMER
- ELECTRIC BOX
- ELECTRIC CABINET
- GUYWIRE
- ELECTRIC PEDESTAL
- GENERATOR
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- VENT PIPE
- AIR PUMP
- HANDICAP PARKING
- DECIDUOUS TREE WITH DRIPLINES
- SHRUB
- LANDSCAPED AREA
- BOLLARD
- SIGN
- FENCE GATE
- SD — STORM LINE (UNDERGROUND)
- SSW — SANITARY LINE (UNDERGROUND)
- ELE — ELECTRIC LINE (UNDERGROUND)
- OHW — ELECTRIC LINE (OVERHEAD)
- SHRUB LINE
- CONCRETE AREA

EQUIPMENT SHIPPED BY TESLA

EQUIPMENT	QTY
PSU 3.0 W/ EVLITE DISCONNECT	3
DISABLED ACCESS, USE LAST SIGN	1
VAN ACCESSIBLE SIGN	1
STAR CENTER KIT	1
CRADLEPOINT ENCLOSURE	1
CRADLEPOINT R1900	1
ARUBA ACCESS POINT KIT	1
V3/V4 POST	12
4" SUPERFLEX CONDUIT (FT)	332
4" SUPERFLEX STRAIGHT COUPLER	10
4" DURALINE CONDUIT (FT)	39
4" ADAPTER – DURALINE TO PVC	2
V3/V4 FLEX FOUNDATION (PRE-CAST)	1
SLIM WIREWAY, 6" X 8" WIREWAY 72" STRAIGHT SECTION	1

NOTES:

1. SITE PLAN BASED ON ENGINEERING DESIGN SURVEY: A PORTION OF THE NE1/4 OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST, TALLAHASSEE MERIDIAN, COLUMBIA COUNTY, FL BY ASA ENGINEERING & SURVEYING, LLC. DATED 12/04/2023.
2. UTILITY CONNECTION TO BE MADE UNDER FPL UTILITIES STANDARDS, CONFIRM FINAL DESIGN PRIOR TO CONSTRUCTION, FPL WORK ORDER TBD.
3. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
4. EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG DURING CONSTRUCTION.
5. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.

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NATHAN ROBERT KREUSER LICENSE NO. 91003 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nathan R Kreuser
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2024.02.02 13:48:24-05'00'

DRAWN BY:	HMP
CHECKED BY:	BG
APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

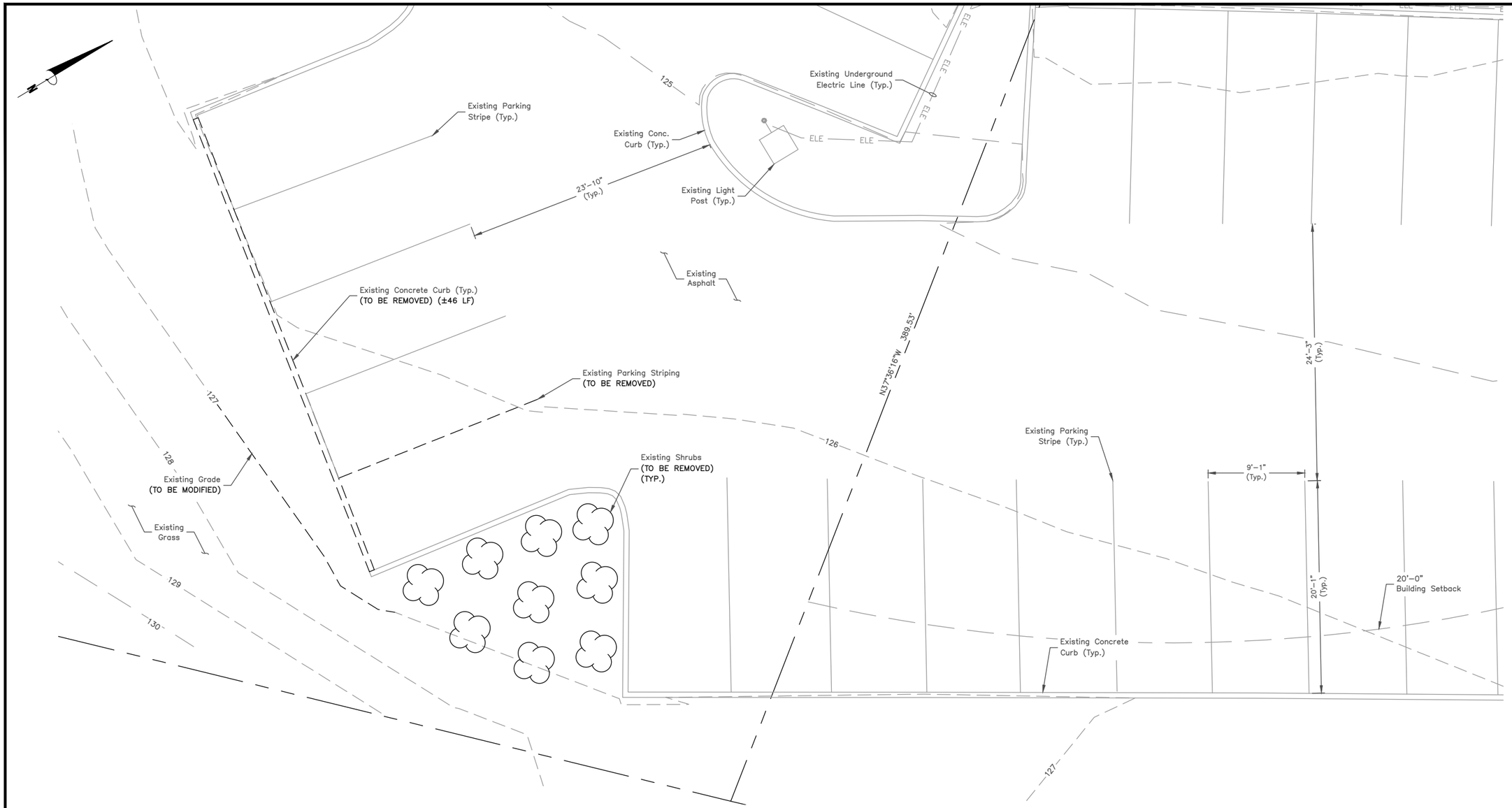
REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

SITE NAME:
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
DETAILED SITE PLAN

SHEET NUMBER
C–1



EXISTING CONDITIONS PLAN 1

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"

0' 5' 10'

NOTES:

1. SITE PLAN BASED ON ENGINEERING DESIGN SURVEY: A PORTION OF THE NE1/4 OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST, TALLAHASSEE MERIDIAN, COLUMBIA COUNTY, FL BY ASA ENGINEERING & SURVEYING, LLC. DATED 12/04/2023.
2. UTILITY CONNECTION TO BE MADE UNDER FPL UTILITIES STANDARDS, CONFIRM FINAL DESIGN PRIOR TO CONSTRUCTION, FPL WORK ORDER TBD.
3. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
4. EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG DURING CONSTRUCTION.
5. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®
Dewberry Engineers Inc.
800 NORTH MAGNOLIA AVE.
SUITE 1000
ORLANDO, FL 32803
PHONE: 407.843.5120
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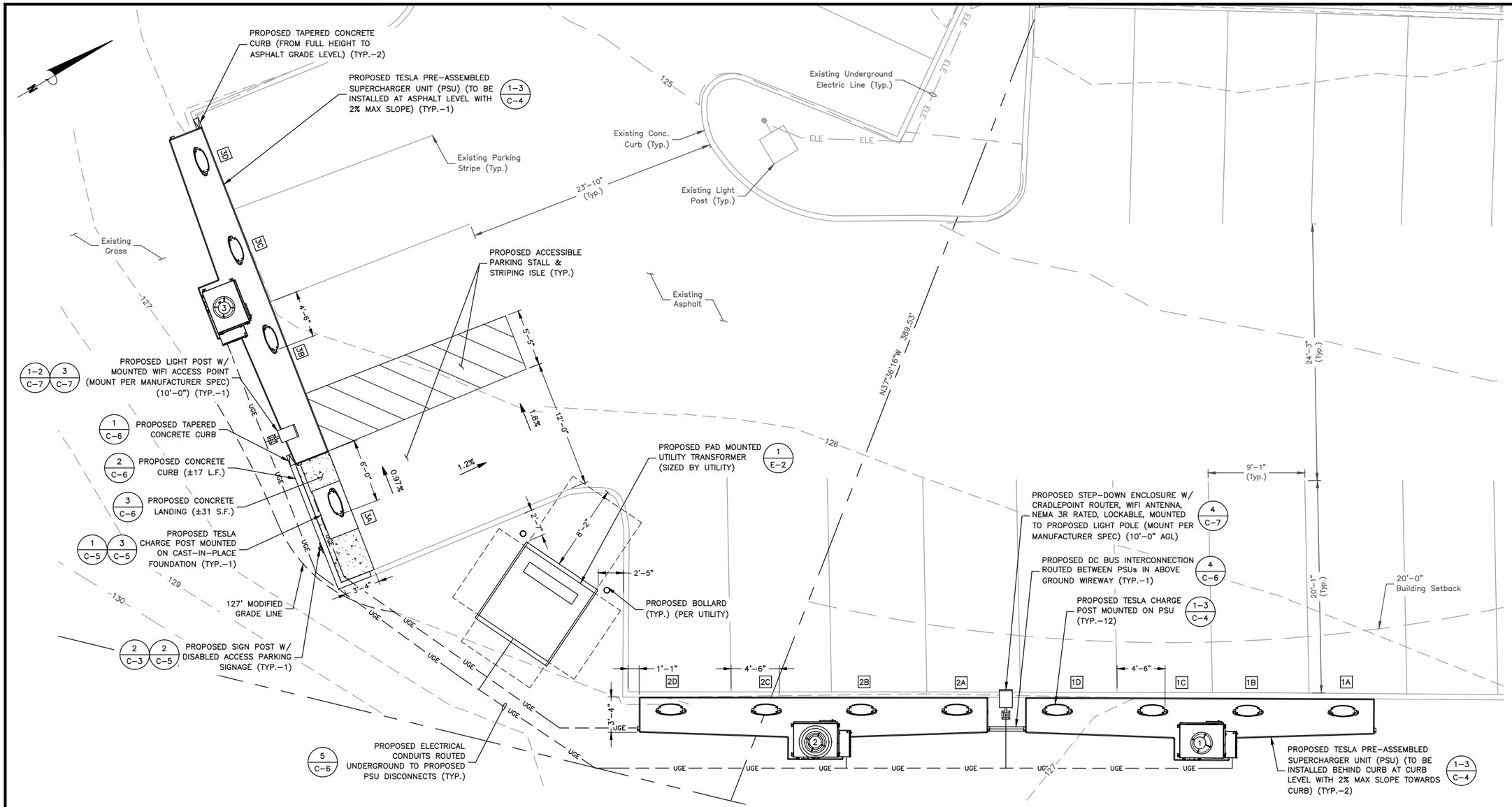
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET NUMBER
C–2



EQUIPMENT/PARKING PLAN 1

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"

0' 5' 10'

DISABLED ACCESS SIGN 2

SCALE: N.T.S.

LEGEND	
#	TESLA "STAR–POINT" SUPERCHARGER #
#	TESLA "STAR–CENTER" SUPERCHARGER #
1A	TESLA CHARGE POST

PARKING STALL SCHEDULE	
DESCRIPTION	QUANTITY
EXISTING STALLS (TO BE MODIFIED)	13
PROPOSED TESLA STALLS	12
NET PARKING STALL CHANGE	–1

NOTES:

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5. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.

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SUITE 1000
ORLANDO, FL 32803
PHONE: 407.843.5120
FAX: 407.649.8664
FLORIDA C.O.A. #8794

NATHAN ROBERT KREUSER LICENSE NO. 94003 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

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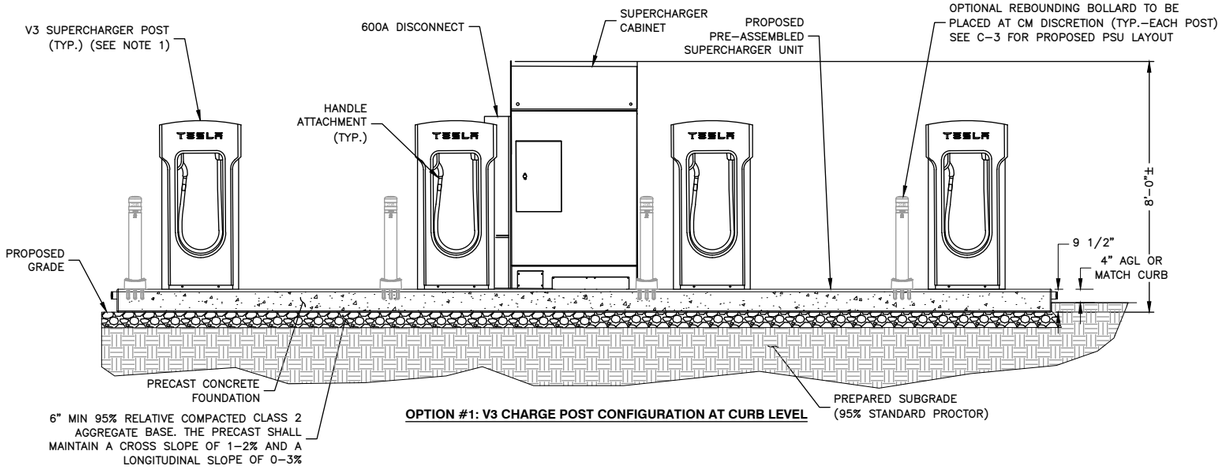
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

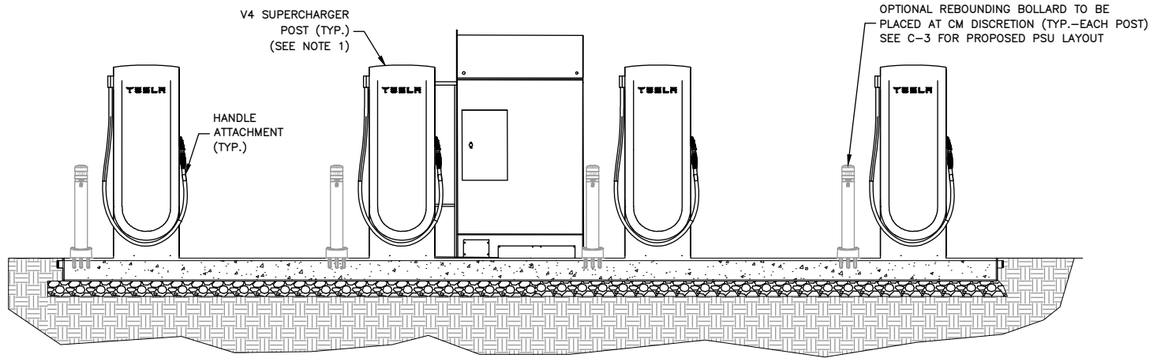
SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
EQUIPMENT/PARKING PLAN

SHEET NUMBER
C–3



OPTION #1: V3 CHARGE POST CONFIGURATION AT CURB LEVEL



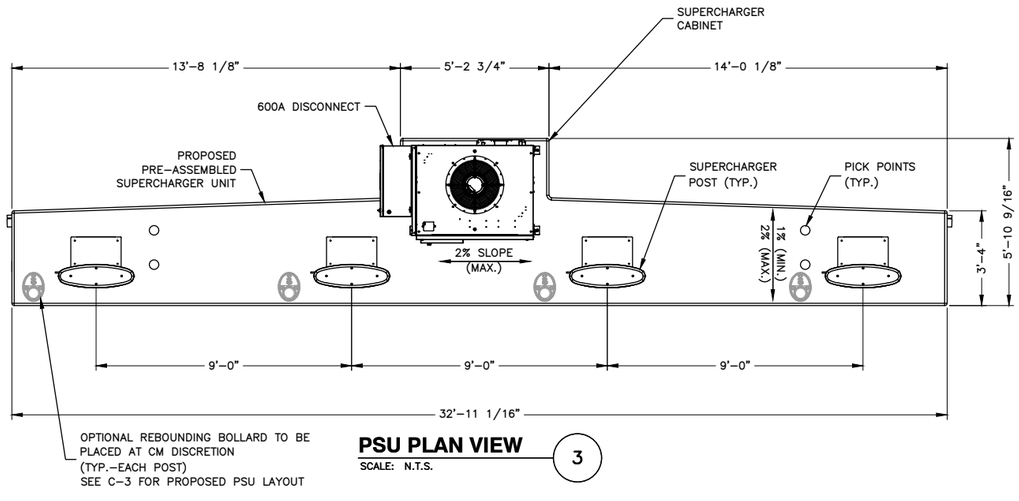
OPTION #2: V4 CHARGE POST CONFIGURATION AT PAVEMENT LEVEL

NOTES:

1. FINAL CHARGE POST CONFIGURATION SELECTION DETERMINED BY TESLA DESIGN MANAGER BASED ON AVAILABILITY AT TIME OF CONSTRUCTION.
2. PSU TO BE INSTALLED BEHIND CURB OR AT PAVEMENT LEVEL AS INDICATED ON SHEET C–3.

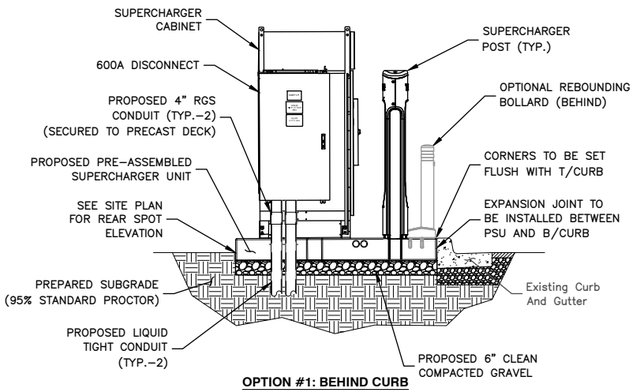
PSU ELEVATIONS

SCALE: N.T.S. — 1

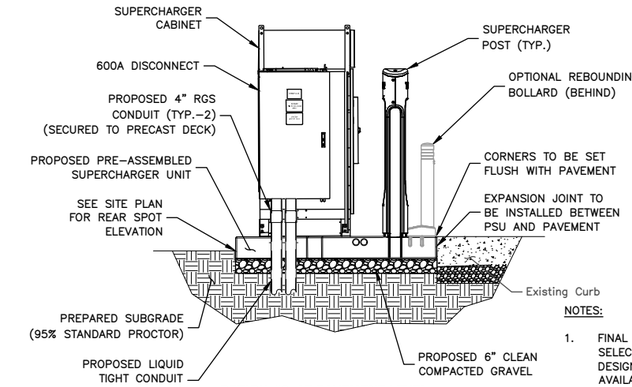


PSU PLAN VIEW

SCALE: N.T.S. — 3



OPTION #1: BEHIND CURB



OPTION #2: AT PAVEMENT LEVEL

NOTES:

1. FINAL CHARGE POST CONFIGURATION SELECTION DETERMINED BY TESLA DESIGN MANAGER BASED ON AVAILABILITY AT TIME OF CONSTRUCTION.
2. PSU TO BE INSTALLED BEHIND CURB OR AT PAVEMENT LEVEL AS INDICATED ON SHEET C–3.

PSU SIDE VIEW

SCALE: N.T.S. — 2

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NATHAN ROBERT KREUSER — LICENSE — No. 91003 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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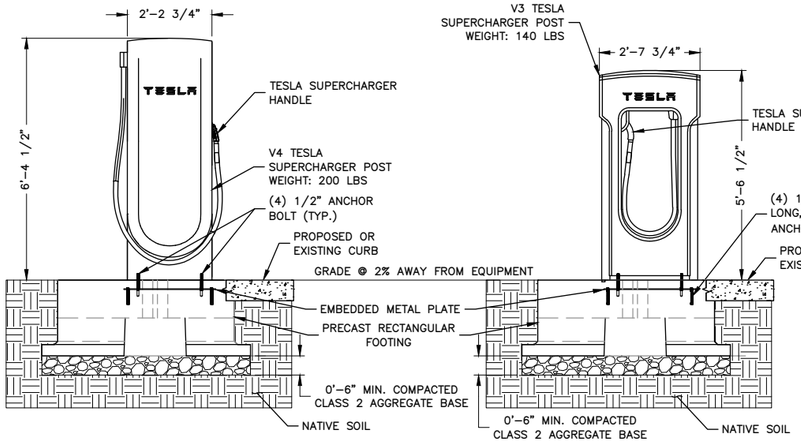
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

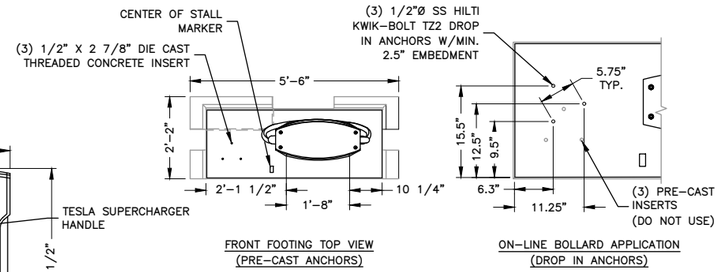
SHEET TITLE
CONSTRUCTION DETAILS I

SHEET NUMBER
C–4



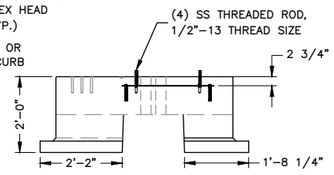
TESLA SUPERCHARGER POST PRECAST FOUNDATION DETAIL 1

SCALE: N.T.S.



FRONT FOOTING TOP VIEW (PRE-CAST ANCHORS)

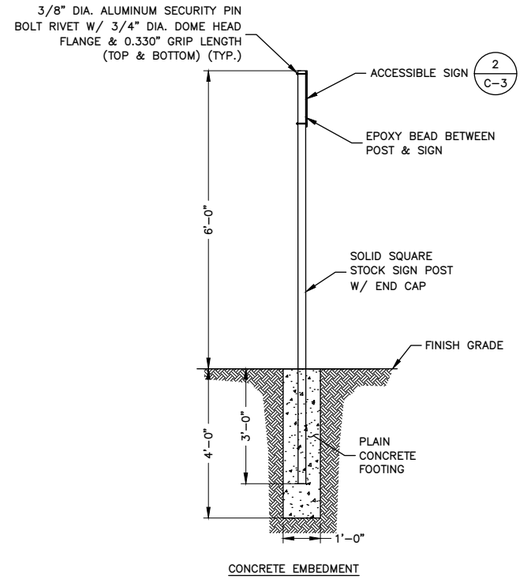
ON-LINE BOLLARD APPLICATION (DROP IN ANCHORS)



FOOTING FRONT VIEW

NOTES:

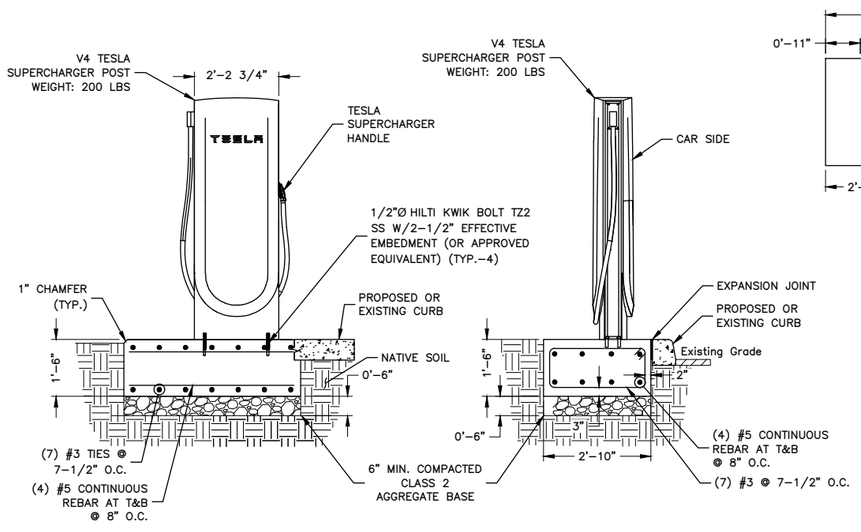
1. PRECAST FOOTING REINFORCED WITH STRUCTURAL FIBER
   VOLUME: 0.483 CU YDS
   WEIGHT: 1,990 LBS
   SEE CUTSHEETS FOR ADDITIONAL INFORMATION
2. S501.1333 SUPERCHARGER POST CENTER ON CENTER
   PRECAST FOOTING DETAIL RA
   WIND RATING (WITHOUT SIGN) = 134 MPH
   WIND RATING (WITH SIGN) = 120 MPH



CONCRETE EMBEDMENT

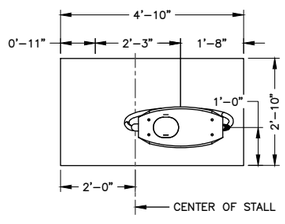
SQUARE SIGN POST DETAIL 2

SCALE: N.T.S.



V4 SUPERCHARGER POST CAST-IN-PLACE FOUNDATION DETAIL 3

SCALE: N.T.S.



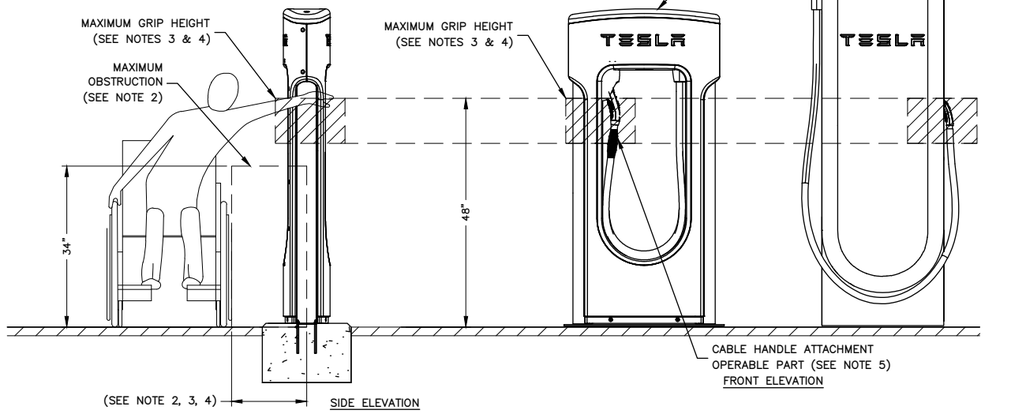
TOP VIEW

NOTES:

1. BACKFILL FOOTING WITH EXCAVATED SOIL COMPACTED TO SAME DENSITY AS UNDISTURBED SOIL.
2. CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF COMPACTED CRUSHED STONE FOR CAPILLARY BREAK AND CONSTRUCTION CONTROL UNDER ALL CONCRETE SLABS.
3. CONTRACTOR SHALL IDENTIFY POOR DRAINING SOILS AND PROVIDE ADDITIONAL COMPACTED, WELL GRADED COURSE-GRAINED SOIL BACKFILL TO FROST DEPTH. CONTRACTOR TO NOTIFY TESLA CM AND ENGINEER.

NOTES:

1. DETAIL IS IN REFERENCE TO 2010 ADA STANDARDS OF ACCESSIBLE DESIGN.
2. PER 2010 ADA STANDARDS OF ACCESSIBLE DESIGN SECTION 308.3.1 & 308.3.2, MAXIMUM OBSTRUCTION TO BE NO LARGER THAN 24 INCHES IN WIDTH AND 34 INCHES IN HEIGHT.
3. PER 2010 ADA STANDARDS OF ACCESSIBLE DESIGN SECTION 308.3.1 & 308.3.2, THE HIGH SIDE REACH SHALL NOT EXCEED 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM.
4. PER 2010 ADA STANDARDS OF ACCESSIBLE DESIGN SECTION 308.3.1 & 308.3.2, WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL NOT EXCEED 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.
5. OPERABLE PART OF CABLE HANDLE COMPLIES WITH REACH RANGES PER 2010 ADA STANDARDS OF ACCESSIBLE DESIGN SECTION 309,.
6. PER 2010 ADA STANDARDS OF ACCESSIBLE DESIGN SECTION 308.3.2, EXCEPTIONS 2, OPERABLE PARTS OF CABLE HANDLE SHALL BE PERMITTED TO BE 54 INCHES MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE CABLE HANDLES ARE INSTALLED ON EXISTING CURBS.



GRAB HEIGHT DETAIL 4

SCALE: N.T.S.

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(BUSY BEE #7)
(TRT ID: 59032)

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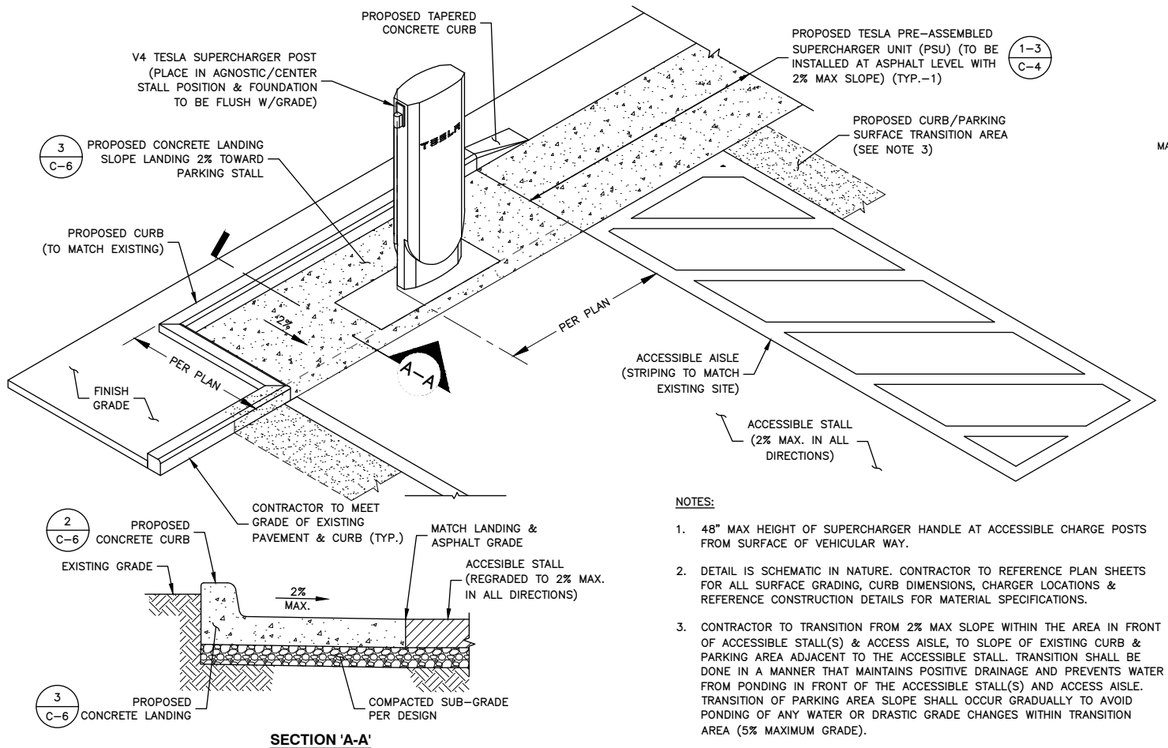
LAKE CITY, FL 32055

SHEET TITLE
CONSTRUCTION DETAILS II

SHEET NUMBER
C-5



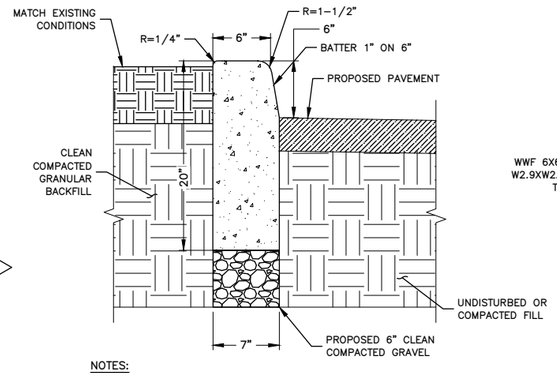
SECTION 'A-A'

NOTES:

1. 48" MAX HEIGHT OF SUPERCHARGER HANDLE AT ACCESSIBLE CHARGE POSTS FROM SURFACE OF VEHICULAR WAY.
2. DETAIL IS SCHEMATIC IN NATURE. CONTRACTOR TO REFERENCE PLAN SHEETS FOR ALL SURFACE GRADING, CURB DIMENSIONS, CHARGER LOCATIONS & REFERENCE CONSTRUCTION DETAILS FOR MATERIAL SPECIFICATIONS.
3. CONTRACTOR TO TRANSITION FROM 2% MAX SLOPE WITHIN THE AREA IN FRONT OF ACCESSIBLE STALL(S) & ACCESS AISLE, TO SLOPE OF EXISTING CURB & PARKING AREA ADJACENT TO THE ACCESSIBLE STALL. TRANSITION SHALL BE DONE IN A MANNER THAT MAINTAINS POSITIVE DRAINAGE AND PREVENTS WATER FROM PONDING IN FRONT OF THE ACCESSIBLE STALL(S) AND ACCESS AISLE. TRANSITION OF PARKING AREA SLOPE SHALL OCCUR GRADUALLY TO AVOID PONDING OF ANY WATER OR DRASTIC GRADE CHANGES WITHIN TRANSITION AREA (5% MAXIMUM GRADE).
4. CONTRACTOR TO SAW CUT CURB/GUTTER AS NEEDED PER PLAN & DISPOSE OF DEBRIS PROPERLY.

V4 ACCESSIBILITY LAYOUT DETAIL 1

SCALE: N.T.S.

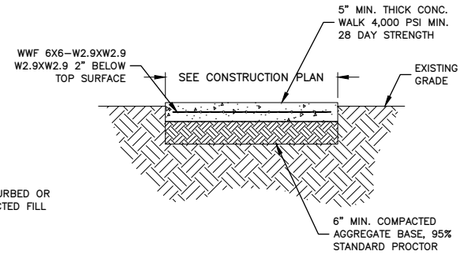


NOTES:

1. SAW CUT AREA TO BE REPAIRED/REPLACED. DISPOSE OF DEBRIS PROPERLY OFF SITE.
2. INSTALL FORMS AS NECESSARY.
3. COMPACT EXISTING SUBGRADE MATERIAL TO ACHIEVE 95% COMPACTION.
4. CONCRETE TO BE 4000 PSI AIR ENTRAINED CONCRETE.
5. INSTALL CONTROL JOINTS EVERY 10 LINEAR FEET.

CONCRETE CURB DETAIL 2

SCALE: N.T.S.

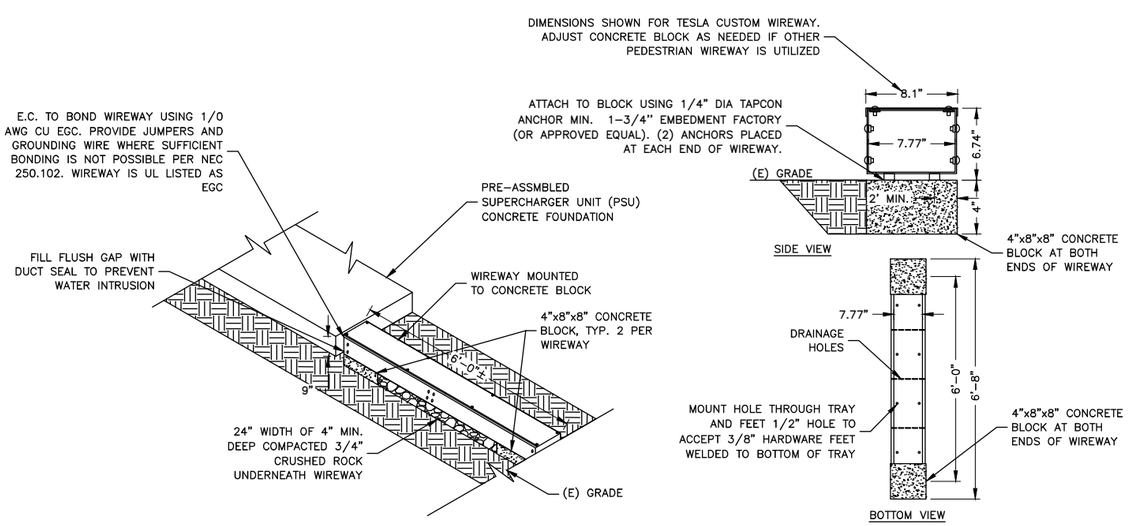


NOTES:

1. SAW CUT AREA TO BE REPAIRED/REPLACED. DISPOSE OF DEBRIS PROPERLY OFF SITE.
2. INSTALL FORMS AS NECESSARY.
3. COMPACT EXISTING SUBGRADE MATERIAL TO ACHIEVE 95% COMPACTION.
4. CONCRETE TO BE 2,500 PSI AIR ENTRAINED CONCRETE.
5. INSTALL CONTROL JOINTS EVERY 10 LINEAR FEET.

CONCRETE LANDING DETAIL 3

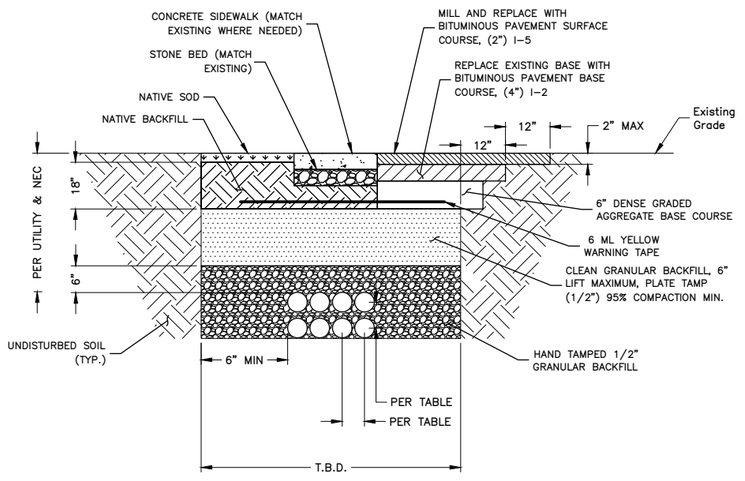
SCALE: N.T.S.



WIREWAY TROUGH DETAIL 4

SCALE: N.T.S.

MINIMUM CENTER TO CENTER CONDUIT SPACING	
(SWITCHGEAR TO CABINETS)	7.5" O.C.
DC (BUSS)	7.5" O.C.



NOTES:

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.
4. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
5. MAINTAIN 12" SEPARATION MIN. BETWEEN AC OR DC CONDUCTORS AND COMMUNICATION CABLES.
6. MAINTAIN 2" SEPARATION MINIMUM BETWEEN OUTER WALLS OF CONDUITS.
7. CONFIRM ALL DEPTHS W/UTILITY & NEC PRIOR TO CONSTRUCTION.

TYP. BURIED CONDUIT TRENCH DETAILS 5

SCALE: N.T.S.

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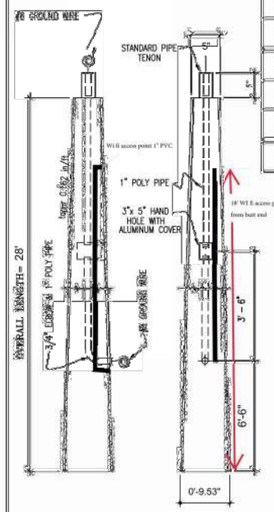
SHEET TITLE
CONSTRUCTION DETAILS III

SHEET NUMBER
C-6

JOB NO: _____ PROJECT: Tesla-20th St CUSTOMER: Tesla

Not to scale



LENGTH OF POLE	28 FT.			
EMBEDMENT SPECIFIED	8 FT.			
HEIGHT ABOVE GROUND	20 FT.			
WEIGHT	1890 LBS.			
WIND VELOCITY (mph)	150	160	170	180
MAXIMUM EPA* (sq. ft.)	6.0	5.3	4.7	4.2

Above embedment shown in SAND. Other embedment depth may be required for other soil condition.

Lifting loop 1/2"-DIA. prestressing strand W/18" embedment @ 20% overall length from the top and butt of pole, handling inserts are removed before transportation from production facility. Conc. 28-day compressive strength: 8000 psi Stripping Strength: 3500 psi

STANDARD PIPE TENON SIZE CIRCLE ONE:	
Nominal Diameter (in)	Outside Diameter (in)
2"	2 3/8"
2 1/2"	2 7/8"
3"	3 1/2"
3 1/2"	4"
4"	4 1/2"

Please order tenon by nominal diameter.

Signature: _____

Date: _____

28 ft. TYPE [-0 POLE

Reset Form

PRECAST SPECIALTIES
Precast Specialties, LLC.
CGC-060216

3898 Selvitz Road | Fort Pierce, FL 34981

NOTE:

PRECAST POLE DRAWING SHOWN FOR REFERENCE ONLY, REFER TO COMPLETED DESIGN BY PRECAST SPECIALTIES, LLC FOR SITE SPECIFIC DESIGN REQUIREMENTS

PEDESTRIAN LIGHT POLE BASE DETAIL

SCALE: N.T.S.

1

LinmoreLED

SPEC SHEET

Site Lighter (SL1)

EXTERIOR LED FIXTURE

ULTRALINK

KEY FEATURES

- Up to 15,000 LMFM
- 4000K (+/- 300K) lumens
- Up to 180°
- 100-480V high voltage driver (optional)
- Dimmable 0-10V
- Solid state L70 > 100,000 hours
- Patented Recess Mount bracket (optional)
- Turtle-friendly lighting options available

Guaranteed Performance
Performance of this light fixture is guaranteed for 10 years, including lumen output (L70), color temperature, and LED driver.

Superior Heat Dissipation
Extruded aluminum body is exceptional at moving thermal energy. Plus, the sail fin fixture is modern and attractive.

Controls and Sensors
Luminaire LED driver with 0-10V dimming. Plus motion and dimming sensors, photocell and wireless controls available.

TECHNICAL SPECS

Housing	Watts	TYPE T2	TYPE T3	TYPE T4	TYPE T5	FRONT ROW FR	FRONT ROW FL	FLOOD F60	FLOOD F85
SH	50	8,676	8,676	8,998	8,676	8,676	8,676	8,676	11,205
SH	75	12,284	12,284	12,161	12,284	12,284	12,284	16,777	17,708
SH	100	16,729	16,729	16,562	16,729	16,729	16,729	16,777	17,708
MS	125	21,176	21,176	20,965	21,176	21,176	21,176	28,056	29,624
MS	150	24,397	24,397	24,153	24,397	24,397	24,397	28,056	29,624
MS	200	30,980	30,980	30,670	30,980	30,980	30,980	30,261	29,747
LG	250	38,035	38,035	37,654	38,035	38,035	38,035	36,224	36,314
LG	300	46,935	46,935	46,465	46,935	46,935	46,935	43,247	43,247
XL	400	62,341	62,341	61,718	62,341	62,341	62,341	56,149	56,149

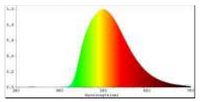
Lumen Multipliers

A way to consider the actual lumen output for your application.

COLOR TEMP CCT	Multiplier
5000K	1.0
4000K	0.98
3500K	0.96
3000K	0.923
2700K	0.892

Turtle-Friendly Lighting Available (2600K CCT)

3,000K CCT option provides an optimized emission spectrum, based on targeted wavelength filtering which helps to accommodate local ecosystems.



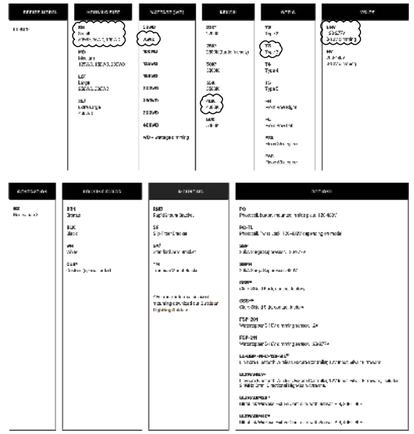
Spectrum Parameters
Blue content (400nm-500nm): 6.14%
Peak wavelength: ~ 579nm

Bug Ratings

HOUSING	WATTS	OPTIC	BUG RATE	OPTIC	BUG RATE	OPTIC	BUG RATE	OPTIC	BUG RATE
SN	50	T5	B3-U0-G1	T4	B3-U0-G1	T3	B3-U0-G1	T2	B3-U0-G1
SN	75	T5	B3-U0-G2	T4	B3-U0-G2	T3	B3-U0-G2	T2	B3-U0-G2
SN	100	T5	B3-U0-G2	T4	B3-U0-G2	T3	B3-U0-G3	T2	B3-U0-G3
MS	125	T5	B3-U0-G3	T4	B3-U0-G3	T3	B3-U0-G3	T2	B3-U0-G3
MS	150	T5	B4-U0-G3	T4	B3-U0-G3	T3	B4-U0-G3	T2	B3-U0-G3
MS	200	T5	B4-U0-G3	T4	B3-U0-G3	T3	B4-U0-G3	T2	B3-U0-G3
LG	250	T5	B4-U0-G3	T4	B3-U0-G3	T3	B4-U0-G3	T2	B3-U0-G3
LG	300	T5	B4-U0-G3	T4	B3-U0-G3	T3	B4-U0-G3	T2	B3-U0-G3
XL	400	T5	B4-U0-G4	T4	B3-U0-G3	T3	B4-U0-G3	T2	B3-U0-G4

ORDER INFORMATION:
LINMORE LED LL-SL1-SM-75WD-40K-T3-UNV

ORDERING



ORDERING EXAMPLES

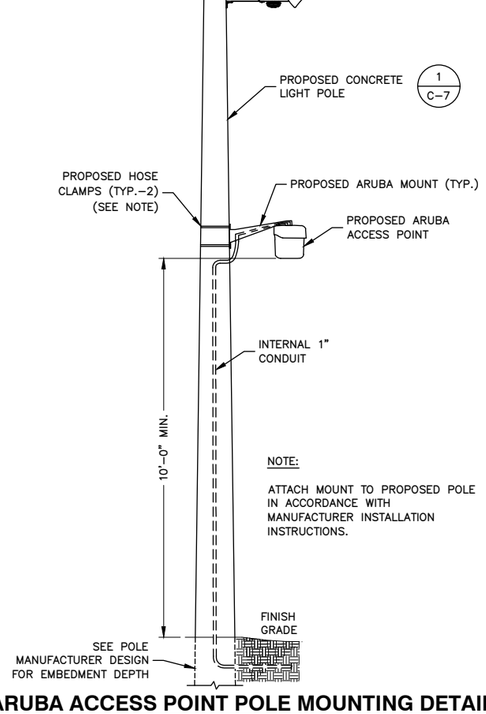
Standard: LL-SL1-SM-150WD-40K-T2-UNV-G2-BRN-SS

With Options: LL-SL1-SM-150WD-40K-T2-UNV-G2-BRN-SS-ULTRASHIELD-GSS

LIGHT FIXTURE AND POLE DETAIL

SCALE: N.T.S.

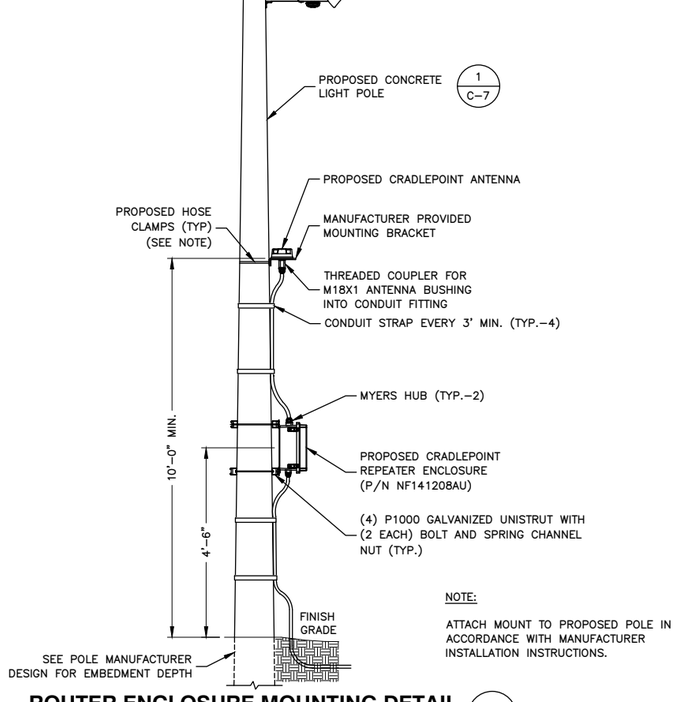
2



ARUBA ACCESS POINT POLE MOUNTING DETAIL

SCALE: N.T.S.

3



ROUTER ENCLOSURE MOUNTING DETAIL

SCALE: N.T.S.

4

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NATHAN ROBERT KREUSER LICENSE NO. 91003 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nathan R Kreuser
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DRAWN BY:	HMP
CHECKED BY:	BG
APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

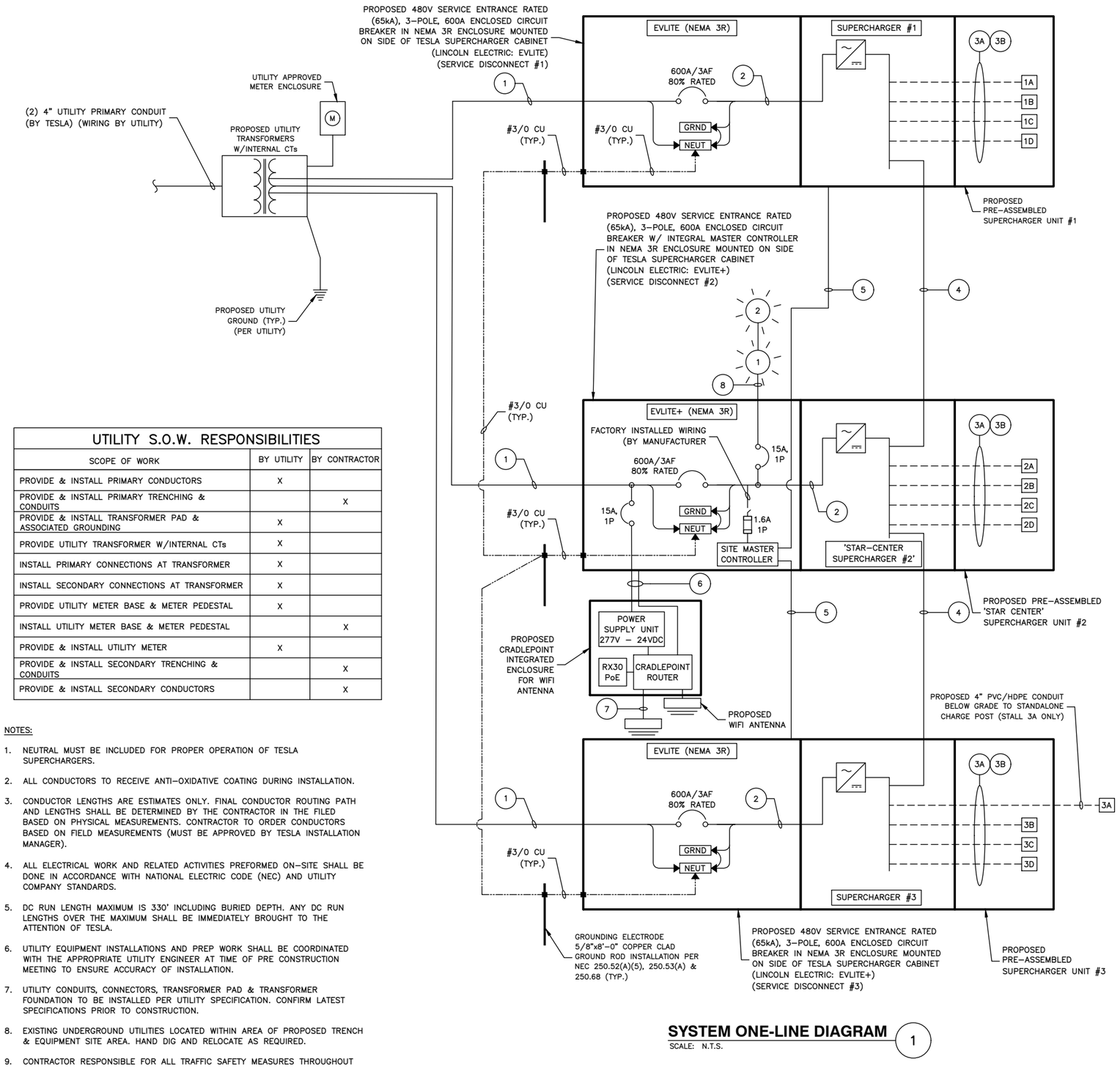
REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

SITE NAME:
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
CONSTRUCTION DETAILS IV

SHEET NUMBER
C-7



SYSTEM ONE-LINE DIAGRAM 1

SCALE: N.T.S.

UTILITY S.O.W. RESPONSIBILITIES

SCOPE OF WORK	BY UTILITY	BY CONTRACTOR
PROVIDE & INSTALL PRIMARY CONDUCTORS	X	
PROVIDE & INSTALL PRIMARY TRENCHING & CONDUITS		X
PROVIDE & INSTALL TRANSFORMER PAD & ASSOCIATED GROUNDING	X	
PROVIDE UTILITY TRANSFORMER W/INTERNAL CTs	X	
INSTALL PRIMARY CONNECTIONS AT TRANSFORMER	X	
INSTALL SECONDARY CONNECTIONS AT TRANSFORMER	X	
PROVIDE UTILITY METER BASE & METER PEDESTAL	X	
INSTALL UTILITY METER BASE & METER PEDESTAL		X
PROVIDE & INSTALL UTILITY METER	X	
PROVIDE & INSTALL SECONDARY TRENCHING & CONDUITS		X
PROVIDE & INSTALL SECONDARY CONDUCTORS		X

NOTES:

1. NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
2. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
3. CONDUCTOR LENGTHS ARE ESTIMATES ONLY. FINAL CONDUCTOR ROUTING PATH AND LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FILED BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
4. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PREFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND UTILITY COMPANY STANDARDS.
5. DC RUN LENGTH MAXIMUM IS 330' INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS OVER THE MAXIMUM SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF TESLA.
6. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATION.
7. UTILITY CONDUITS, CONNECTORS, TRANSFORMER PAD & TRANSFORMER FOUNDATION TO BE INSTALLED PER UTILITY SPECIFICATION. CONFIRM LATEST SPECIFICATIONS PRIOR TO CONSTRUCTION.
8. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
9. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC SAFETY MEASURES THROUGHOUT DURATION OF CONSTRUCTION. COORDINATE ANY ACCESS ROAD CLOSURES W/OWNER.
10. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE IN NEMA 3R RATED UNLESS OTHERWISE NOTED.

SERVICE ELECTRICAL CIRCUIT SCHEDULE

NO:	FROM	TO	CONFIGURATION
1	PROPOSED UTILITY TRANSFORMER	PROPOSED PSU INTEGRATED SERVICE BREAKER (TYP.-3)	[2 SETS] (3) 500MCM AL (THWN-2) (1) 500MCM AL (THWN-2) NEUT IN 4" CONDUIT (INSTALL PVC CONDUIT BELOW GRADE AND RGS CONDUIT ABOVE GRADE)
2	PROPOSED PSU INTEGRATED SERVICE BREAKER (TYP.-3)	PROPOSED TESLA SUPERCHARGER (TYP.-3)	[2 SETS] (3) 500MCM AL (THWN-2) (1) 500MCM AL (THWN-2) NEUT (1) #1 AWG CU EGC OR #2/0 AL EGC*
3A	PROPOSED TESLA SUPERCHARGER	PROPOSED TESLA V3 POST (TYP.-12)****	[1 SET PER POST:] (4) 350MCM AL (XHHW-2) (1000V RATED) (1) #1 AWG CU EGC OR #2/0 AL EGC & SHIELDED CAT6E+ COMM CABLE (1000V RATED) (PER TESLA)
3B	PROPOSED TESLA SUPERCHARGER	PROPOSED TESLA V4 POST (TYP.-12)****	[1 SET PER CHARGE POST:] (4) 600MCM AL (XHHW-2) (1000V RATED) (1) #2/0 AWG CU EGC (2) #6 CU (1000V RATED) & SHIELDED 1000V COMM CABLE (PER TESLA) IN 4" PVC/HDPE CONDUIT**
4	'STAR CENTER' SUPERCHARGER CABINET DC BUS	DC BUS BETWEEN PROPOSED SUPERCHARGERS	[2 SETS] (2) 600MCM AL (XHHW-2) (1) #1/0 CU GROUND & (1) #3/0 AWG AL DC MID (1000V RATED) IN TESLA CUSTOM ABOVE GROUND WIREWAY***
5	EVLITE CONTROLS COMPARTMENT (ETHERNET SWITCH)	PROPOSED TESLA SUPERCHARGER CABINET	SHIELDED CAT6E IN 1" CONDUIT**
6	EVLITE+ SERVICE DISCONNECT/ CONTROLS COMPARTMENT	PROPOSED CRADLEPOINT INTEGRATED ENCLOSURE	(2) #12AWG + (1) #12AWG GND FROM 1P/15A CB AND (1) CAT6 CABLE FROM ETHERNET SWITCH WITHIN CONTROLS COMPARTMENT IN 1" PVC/HDPE CONDUIT**
7	PROPOSED CRADLEPOINT ROUTER	PROPOSED CRADLEPOINT WIFI ANTENNA/REPEATER	(1) CAT6 COMM CABLE IN 1" PVC /HDPE CONDUIT (BELOW GRADE)** 1" EMT CONDUIT (ABOVE GRADE)
8	15A, 1P BREAKER	LIGHT POST	(1) #10 AWG (THWN-2) (1) #10 AWG (THWN-2) NEUT (1) #10 AWG EGC IN 1-1/4" CONDUIT

* MODIFIED PER NEC 250.64(A)(2)
** PER UL LISTED HDPE CONDUIT PERMITTED. CONTRACTOR TO CONFIRM USE W/ TESLA CM
*** ALT DC BUS DESIGN: CONTRACTOR TO ROUTE DC BUS CONDUCTOR W/IN (2) 3" BURIED CONDUITS. TRANSITION FROM PSU TO CONDUITS TO BE MADE W/ JUNCTION BOX SIZED PER NEC.
****CONTRACTOR TO INSTALL APPLICABLE WIRING CONFIGURATION DEPENDING ON CHARGE POST TYPE INSTALLED ON SITE.

SECONDARY SERVICE LENGTHS

	LINEAR LENGTH	ESTIMATED LENGTH*
TRANSFORMER TO DISCONNECT #1	97'	122'
TRANSFORMER TO DISCONNECT #2	62'	87'
TRANSFORMER TO DISCONNECT #3	40'	65'
TOTAL LENGTH OF AC AL WIRE**:		1096'
NUMBER OF WIRE SETS PER DISCONNECT:		2
TOTAL LENGTH OF AL WIRE***:		2192'

NOTES:

* AC CONDUCTORS: 25 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.

** ESTIMATED LENGTH OF AL WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER CONDUIT

*** LENGTH OF AL WIRE PER BREAKER = ESTIMATED TOTAL LENGTH OF AL WIRE X # WIRE FILLED CONDUIT

BREAKER TRIP SETTINGS

600A (80%) SUPERCHARGER BREAKER: (EATON PDG33G0600TFAN)
LONG TIME PICK UP (Ir) = FIXED 600A INSTANTANEOUS = 5
600A (80%) SUPERCHARGER BREAKER: (EATON LGH3600FAG)
LONG TIME PICK UP (Ir) = FIXED 600A INSTANTANEOUS = 10
600A (80%) SUPERCHARGER BREAKER: (SQUARE-D LIL36600U31XYP)
LONG TIME PICK UP (Ir) = FIXED 600A INSTANTANEOUS = 9
600A (80%) SUPERCHARGER BREAKER: (SQUARE-D LJL36600U31XYP)
LONG TIME PICK UP (Ir) = FIXED 600A LONG DELAY TIME (tr) = 0.5 INSTANTANEOUS = 5
600A (80%) SUPERCHARGER BREAKER: (ABB XT5HU360BBFF000XXX)
LONG TIME PICK UP (Ir) = FIXED 600A INSTANTANEOUS = MED
NOTE:
1. CONTRACTOR TO CONFIRM BREAKER MODEL AND CORRECT BREAKER SETTINGS AT TIME OF INSTALLATION

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(650) 681-5000

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FLORIDA C.O.A. #8794

NATHAN ROBERT KREUSER LICENSE NO. 91003 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED BY:	NRK
PROJECT #:	50123704
JOB #:	50167719

SUBMITTALS

REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

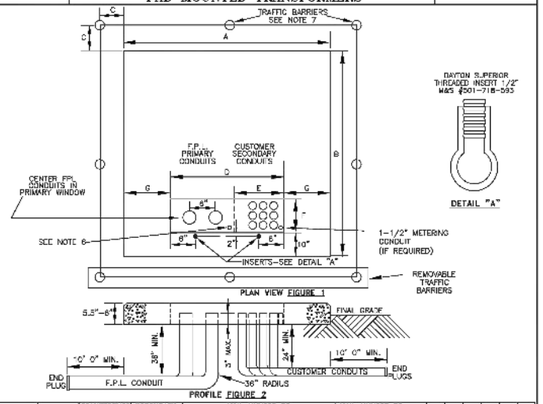
SITE NAME:
LAKE CITY, FL - US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

SHEET NUMBER
E-1

UX-116.1.1	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500KVA 3ø RADIAL & LOOP TYPE PAD MOUNTED TRANSFORMERS	UX-116.1.1



PAD M&S NUMBER	WEIGHT	TRANSFORMER KVA	SECONDARY VOLTAGE	MAX. NUMBER OF CONDUCTORS & SIZE	MAX. NUMBER OF CONDUITS & SIZES	A	B	C	D	E	F	G
162-750-120	2,700LBS	750	277/480 V	8 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	5 - 5" MAX 6 - 5" MAX 5 - 5" MAX	78	78	18	50	25	21	9
182-750-120	2,700LBS	750	120/208 V	12 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	12 - 5" MAX 5 - 5" MAX 5 - 5" MAX	78	78	18	50	25	21	9
182-1000-000	3,600LBS	1000	120/208 V OR 277/480 V	12 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	12 - 5" MAX 6 - 5" MAX 6 - 5" MAX	88	88	18	80	25	21	14
182-1500-200	4,050LBS	1500-2000	277/480 V	12 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	12 - 5" MAX 8 - 5" MAX 6 - 5" MAX	94	94	18	64	28	21	15
182-2500-025	5,050LBS	2500	277/480 V	12 SETS 750 KCMIL OR SMALLER*	12 - 5" MAX	106	106	18	86	28	26	20

NOTES:
1. FOR CONSTRUCTION DETAILS AND INSTALLATION GUIDELINES.
2. (*) CABLES LARGER THAN 500 CU WILL REQUIRE MULTI-TAP CONNECTORS 103-806-300 AND 103-608-420.
3. FOR ANY NEW INSTALLATION WHICH HAS MORE THAN 6 SETS OF 750 KCMIL CU OR MORE THAN 12 SETS OF A SMALLER SIZE CONDUCTOR, IT IS RECOMMENDED TO USE THE LARGE THREE -PHASE SECONDARY CABINET, M&S #161-401-003, AS SHOWN IN DCS 1-75.0.0.
4. #4 EMT OR SCHED 80-HDPE (1/2") ON ALL 4 CORNERS.
5. 6" X 6" WIRE MESH SURROUNDING ALL OPENINGS.
6. INSTALL 2" SLEEVE FOR GROUND ROD, 48" LONG.
7. FOR TRAFFIC BARRIERS INFORMATION REFER TO UN-21.0.0.
8. REFER TO -83.0.1 FOR ADDITIONAL DETAILS.
9. USE APPROVED TOOL M&S #SM-108-003 FOR LIFTING AND HANDLING THESE PADS.
10. IF CT'S ARE REQUIRED, CABLES/CONDUITS REQUIRING CT METERING MUST BE PLACED TOWARDS THE FRONT OF THE PAD.
11. A SECONDARY CABINET IS REQUIRED FOR ALL NON-JOSLO NEW INSTALLATIONS.

NO.	DATE	REVISION	CRTC.	DRAWN	APPR.
13	8/27/20	ADD NOTE 11 & UPDATE TABLE	ARR	EJS	RDH
12	8/28/19	UPDATE NOTE 6	ARR	EJS	RDH
11	12/14/15	UPDATE TABLE	ARR	EJS	RDH
10	11/9/15	UPDATE TABLE	ARR	EJS	RDH
9	9/9/15	ADD NOTE 8	ARR	EJS	RDH

FPL
OH & UG DISTRIBUTION SYSTEM STANDARDS
ORIGINATOR: NV DRAWN BY: E. SCHILLING
DATE: 10/5/98 APPROVED: J... MCEVOY NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

TRANSFORMER PAD 1
SCALE: N.T.S.

SERVICE DISCONNECT 1 OF 3. DISCONNECTS LOCATED AT PSU 2 & 3	SERVICE DISCONNECT 2 OF 3. DISCONNECTS LOCATED AT PSU 1 & 3
PLACE ON PSU #1 SERVICE DISCONNECT	PLACE ON PSU #2 SERVICE DISCONNECT
SERVICE DISCONNECT 3 OF 3. DISCONNECTS LOCATED AT PSU 1 & 2	TESLA EV SYSTEM DISCONNECT
PLACE ON PSU #3 SERVICE DISCONNECT	PLACE ON EACH SERVICE DISCONNECT

NOTES:

1. PLACARDS TO BE MADE OF RED PHENOLIC PLASTIC W/ 1" WHITE LETTERING. ATTACH PLACARDS USING RIVETS OR SELF-TAPPING SCREWS.

SYSTEM PLACARDS 2
SCALE: N.T.S.

EV LITE LOAD SCHEDULE					
CKT NO.	TRIP AMPS	DESCRIPTION	KVA		
			A	B	C
1	600A	SUPERCHARGER CABINET	129.00	–	–
2			–	129.00	–
3			–	–	129.00
TOTALS		APPARENT POWER (kVa)	129.0 kVA	129.0 kVA	129.0 kVA
		CURRENT (A)	465.49 A		

EV LITE LOAD SCHEDULE					
CKT NO.	TRIP AMPS	DESCRIPTION	KVA		
			A	B	C
1	600A	SUPERCHARGER CABINET	129.00	–	–
2			–	129.00	–
3			–	–	129.00
4	15A	SITE LIGHTING	0.75	–	–
5	15A	MASTER CONTROLLER	–	–	0.1
6	–	–	–	–	–
TOTALS		APPARENT POWER (kVa)	129.8 kVA	129.0 kVA	129.1 kVA
		CURRENT (A)	466.51 A		

LOAD SCHEDULE 3
SCALE: N.T.S.

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SUBMITTALS

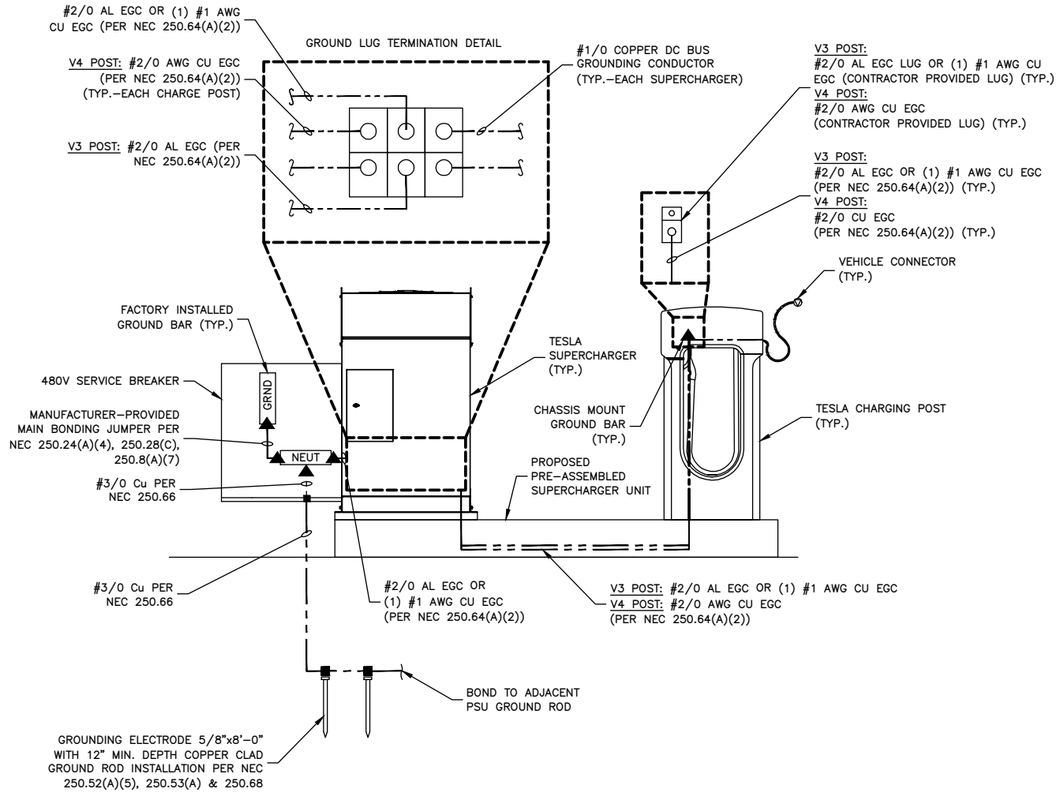
REV.	DATE	DESCRIPTION
0	01/31/24	ISSUED FOR S&S

SITE NAME:
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
ELECTRICAL & UTILITY DETAILS

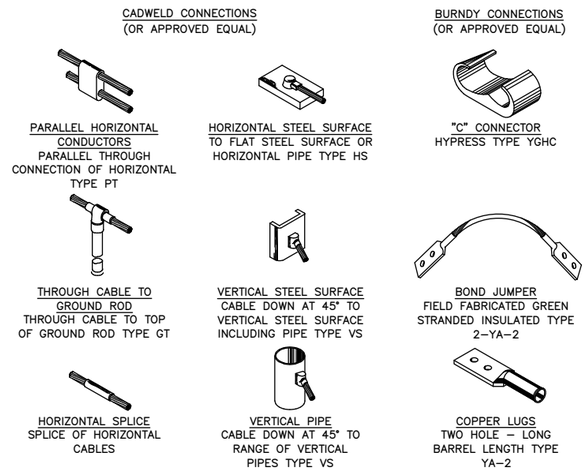
SHEET NUMBER
E-2



GROUNDING SCHEMATIC

SCALE: N.T.S.

1



GROUND CONNECTION DETAILS

SCALE: N.T.S.

2

TESLA

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SUBMITTALS

REV.	DATE	DESCRIPTION
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SITE NAME:
LAKE CITY, FL – US HWY 41
(BUSY BEE #7)
(TRT ID: 59032)

SITE ADDRESS:
4772 US HWY 41
LAKE CITY, FL 32055

SHEET TITLE
GROUNDING SCHEMATIC & DETAILS

SHEET NUMBER
G–1