

PEACHTREE CORNERS EV CHARGING STATION INSTALLATION

5051 PEACHTREE CORNERS CIRCLE,
PEACHTREE CORNERS, GA 30092

SCOPE OF WORK

INSTALL (4) ELECTRICAL VEHICLE CHARGING STATIONS ON (2) PEDESTALS (DUAL PORT).

APPLICABLE CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES:

- NATIONAL ELECTRICAL CODE 2017
- BUILDING CODE 2018
- MECHANICAL CODE 2018
- ENERGY CONSERVATION CODE 2015

UNDERGROUND UTILITIES



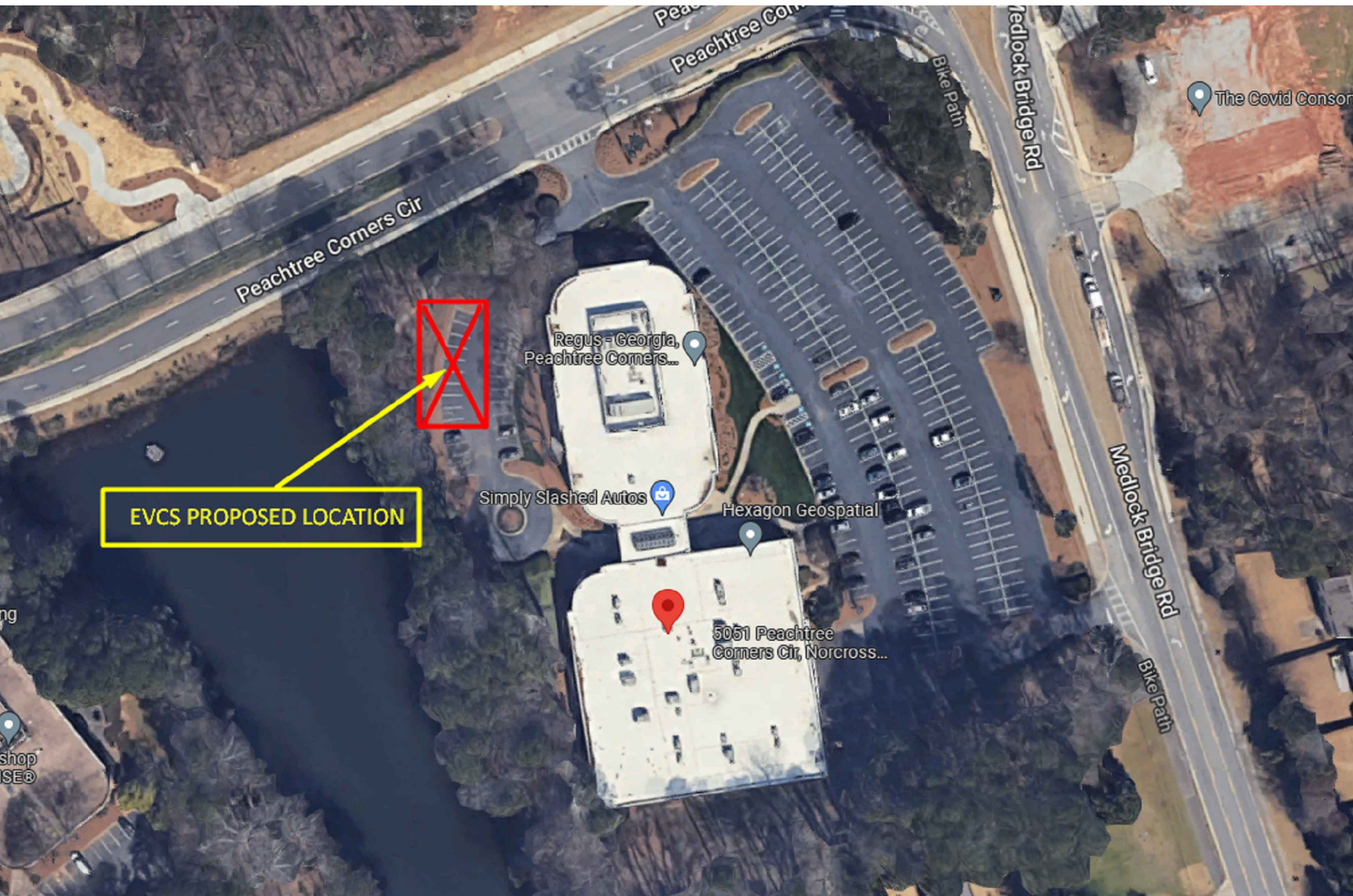
CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

EXISTING UNDERGROUND FACILITIES ARE SHOWN ON THESE PLANS FROM RECORD INFORMATION AND ARE INFORMATION ONLY. OTHER UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY A ONE-CALL SERVICE CENTER, TOLL FREE AT 811, NO LESS TWO DAYS PRIOR TO ANY EXCAVATION.

VICINITY MAP



SATELLITE VIEW



SHEET INDEX

DRAWING SUBMITTALS STATUS

| | | ISSUED FOR APPROVAL | ISSUED FOR PERMIT | RE-ISSUED FOR PERMIT |
|------|---|---------------------|-------------------|----------------------|
| EV01 | COVER SHEET | ● | ● | ● |
| EV02 | NOTES, LEGEND & SYMBOLS | ● | ○ | ● |
| EV03 | ELECTRICAL SITE LAYOUT | ● | ○ | ● |
| EV04 | ELECTRICAL RISER DIAGRAM & CALCULATIONS | ● | ● | ● |
| EV05 | INSTALLATION DETAILS 1 | ● | ● | ● |
| EV06 | INSTALLATION DETAILS 2 | ● | ● | ● |
| EV07 | INSTALLATION DETAILS 3 | ● | ● | ● |

| LEGEND | |
|--------------------------------|---|
| UPDATED DRAWING ISSUE | ● |
| UNCHANGED | ○ |
| DRAWING REMOVED FROM SUBMITTAL | X |

SEAL & SIGNATURE:



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| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 2 | 10/24/2022 | RE-ISSUED FOR PERMIT |
| 1 | 09/29/2022 | ISSUED FOR PERMIT |
| 0 | 08/18/2022 | ISSUED FOR APPROVAL |

CLIENT:

**ELECTRIFY
EVSE**

PROJECT:

**PEACH CORNERS
EVCS
INSTALLATION**

ADDRESS:
**5051 PEACHTREE
CORNERS CIRCLE,
PEACHTREE CORNERS,
GA 30092**

AMPER PROJECT NUMBER:

1544

SHEET SIZE:

24X36

DESIGNED BY:

AC

DRAWN BY:

IB

CHECKED BY:

DEE

SHEET TITLE:

COVER SHEET

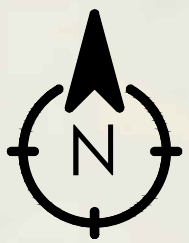
SHEET NO:

EV01



CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

SITE LAYOUT
SCALE: NTS



PROFESSIONAL ENGINEERING

DURAK EVRIM ERCAN P.E.
ENGINEERING | CONSULTING | ESTIMATING
201-920-2899 | info@AmperEngineering.com

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PROJECT:
**PEACH CORNERS
EVCS
INSTALLATION**

ADDRESS:
5051 PEACHTREE
CORNERS CIRCLE,
PEACHTREE CORNERS,
GA 30092

| | |
|-------------------------------|--------------------|
| AMPER PROJECT NUMBER: 1544 | |
| SHEET SIZE: 24X36 | DRAWN BY: IB |
| DESIGNED BY: AC | CHECKED BY: DEE |

SHEET TITLE:
SITE LAYOUT

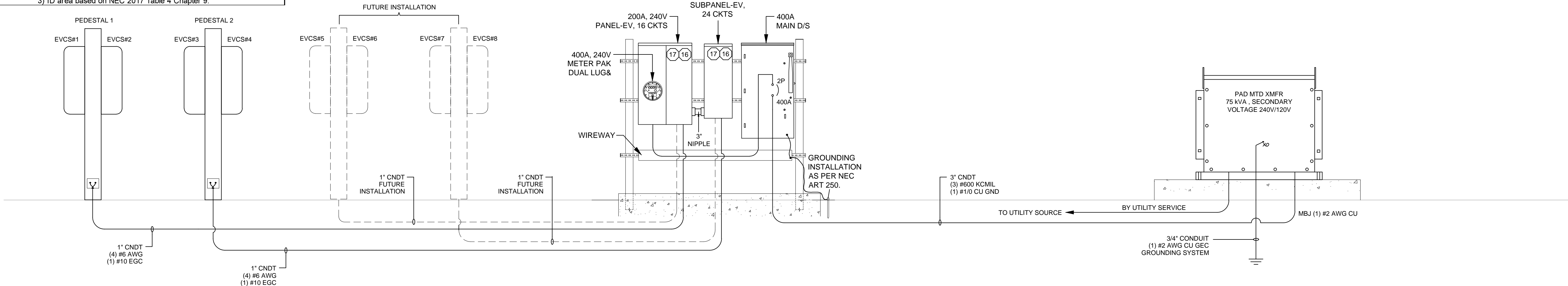
SHEET NO:
EV03

| PANEL-EV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----------------------|---------------------------------------|------------------------|------|------|-------|------|---------|--|-------|-------|---------|------|------------|-------|------|------|------|---------------------|----------------------|--------|-------------|--|--|--|--|
| VOLTAGE: 120/240 1 PHASE, 3 WIRE | | | | | | | | | | LOCATION: PARKING LOT BUS (A): MAIN (A): 200 | | | | | | | | | | | | | | | | | |
| No. | WIRE SIZE | CIRCUIT DESCRIPTION | CONT | RCPT | MTR | A/C | KITCH | MISC | BREAKER | | PHASE | | BREAKER | | LOAD (KVA) | | | | | CIRCUIT DESCRIPTION | WIRE SIZE | No. | | | | | |
| 1 | #6 AWG | EVCS#1 | 3.84 | | | | | | TRIP | POLE | A | B | POLE | TRIP | MISC | KITCH | A/C | MTR | RCPT | CONT | | | | | | | |
| 3 | X | X | 3.84 | | | | | | X | X | | 7.68 | X | X | | | | | | 3.84 | EVCS#2 | #6 AWG | 2 | | | | |
| 5 | | FUTURE LOAD (EVCS#5) | 3.84 | | | | | | 40 | 2 | 7.68 | | 2 | 40 | | | | | | 3.84 | X | X | 4 | | | | |
| 7 | | X | 3.84 | | | | | | X | X | | 7.68 | X | X | | | | | | 3.84 | FUTURE LOAD (EVCS#6) | | 6 | | | | |
| 9 | | SPACE | | | | | | | | | 0.00 | | | | | | | | | | X | | 8 | | | | |
| 11 | | SPACE | | | | | | | | | | 0.00 | | | | | | | | | SPACE | | 10 | | | | |
| 13 | | SPACE | | | | | | | | | 0.00 | | | | | | | | | | SPACE | | 12 | | | | |
| 15 | | SPACE | | | | | | | | | | 0.00 | | | | | | | | | SPACE | | 14 | | | | |
| | | | LOADS W/ NEC 220 DEMAND FACTORS (KVA) | | | | | | TOTAL | | 15.36 | 15.36 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.72 | CONNECTED KVA | 30.72 | | | | | |
| v13 - 08/02/2022 | | | CONT | RCPT | MTR | A/C | KITCH | MISC | | | | | | | | | | | | | | | PANEL NOTES | | | | |
| DEMAND LOAD PHASE-A (KVA) | | | 19.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.20 | CONTINUOUS LOAD: 125% LOAD | | | | | | | | | | | | | | 1) IF PANEL EXISTING AND ACTUAL CONNECTED KVA ARE NOT KNOWN, ASSUMPTIONS ARE MADE AS: 1A) FOR CONTINUOUS LOADS CONNECTED LOAD ASSUMED TO BE 80% OF THE OCPD RATING. 1B) FO NON-CONTINUOUS LOADS CONNECTED LOAD ASSUMED TO BE 100% OF THE OCPD RATING. 2) DESIGN IS BASED ON NEC TABLE 310.15(B)(16) COPPER THIN CONDUCTORS. EXISTING CONDUCTORS AND WIRING MAY NEED TO BE INSPECTED AND VERIFIED BY ELECTRICAL CONTRACTOR. 3)EVCS ARE CONSIDERED CONTINUOUS LOADS AND ACTUAL NAME PLATE VALUES ARE USED. | | | |
| DEMAND LOAD PHASE-B (KVA) | | | 19.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.20 | RECEPTACLES: 100% 1ST 10KW+50% REMAINING | | | | | | | | | | | | | | | | | |
| TOTAL DEMAND LOAD (KVA) | | | 38.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.40 | MOTORS: 125% LARGEST MTR+100% REMAINING | | | | | | | | | | | | | | | | | |
| LARGEST DEMAND LOAD OF ANY PHASE (KVA) | | | 19.20 | A/C OR HEAT: 100% LOAD | | | | | | | | | | | | | | | | | | | | | | | |
| LARGEST DEMAND LOAD OF ANY PHASE (AMP) | | | 160 | KITCHEN: 65% LOAD | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL DEMAND LOAD OF ALL PHASES (KVA) | | | 38.40 | MISC: 100% LOAD | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL DEMAND LOAD OF ALL PHASES (AMP) | | | 160 | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM FEEDER AMPACITY SELECTION (AMP) | | | 160 | | | | | | | | | | | | | | | | | | | | | | | | |

| SUBPANEL-EV | | | | | | | | | | | | | | | | | LOCATION: PARKING LOT | | | | | | | |
|---|-----------|----------------------|---------------------------------------|------|------|------|-------|------|---------|-------|--|---------------------------|------------|------|------|-------|-----------------------|---------------------|-----------|------|------|----------------------|---------------------|----|
| VOLTAGE: 120/240 1 PHASE, 3 WIRE | | | | | | | | | | | | BUS (A): MAIN (A): 200 | | | | | | | | | | | | |
| No. | WIRE SIZE | CIRCUIT DESCRIPTION | CONT | RCPT | MTR | A/C | KITCH | MISC | BREAKER | PHASE | | BREAKER | LOAD (KVA) | | | | | CIRCUIT DESCRIPTION | WIRE SIZE | No. | | | | |
| | | | | | | | | | TRIP | POLE | A | B | POLE | TRIP | MISC | KITCH | A/C | MTR | RCPT | CONT | | | | |
| 1 | #6 AWG | EVCS#3 | 3.84 | | | | | | 40 | 2 | 7.68 | | 2 | 40 | | | | | | | 3.84 | EVCS#4 | #6 AWG | 2 |
| 3 | X | X | 3.84 | | | | | | X | X | 7.68 | | X | X | | | | | | | 3.84 | X | X | 4 |
| 5 | | FUTURE LOAD (EVCS#7) | 3.84 | | | | | | 40 | 2 | 7.68 | | 2 | 40 | | | | | | | 3.84 | FUTURE LOAD (EVCS#8) | | 6 |
| 7 | | X | 3.84 | | | | | | X | X | | 7.68 | X | X | | | | | | | 3.84 | X | | 8 |
| 9 | | SPACE | | | | | | | | | 0.00 | | | | | | | | | | | SPACE | | 10 |
| 11 | | SPACE | | | | | | | | | | 0.00 | | | | | | | | | | SPACE | | 12 |
| 13 | | SPACE | | | | | | | | | 0.00 | | | | | | | | | | | SPACE | | 14 |
| 15 | | SPACE | | | | | | | | | | 0.00 | | | | | | | | | | SPACE | | 16 |
| 17 | | SPACE | | | | | | | | | 0.00 | | | | | | | | | | | SPACE | | 18 |
| 19 | | SPACE | | | | | | | | | | 0.00 | | | | | | | | | | SPACE | | 20 |
| 21 | | SPACE | | | | | | | | | 0.00 | | | | | | | | | | | SPACE | | 22 |
| 23 | | SPACE | | | | | | | | | | 0.00 | | | | | | | | | | SPACE | | 24 |
| v13 - 08/02/2022 | | | LOADS W/ NEC 320 DEMAND FACTORS (KVA) | | | | | | TOTAL | | 15.36 | 15.36 | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 30.72 | CONNECTED KVA 30.72 | |
| DEMAND LOAD PHASE-A (KVA) | | | 19.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.20 | | <div>PANEL NOTES</div> <div>1) IF PANEL EXISTING AND ACTUAL CONNECTED KVA ARE NOT KNOWN, ASSUMPTIONS ARE MADE AS: 1A) FOR CONTINUOUS LOADS CONNECTED LOAD ASSUMED TO BE 80% OF THE OCPD RATING. 1B) FO NON-CONTINUOUS LOADS CONNECTED LOAD ASSUMED TO BE 100% OF THE OCPD RATING. 2) DESIGN IS BASED ON NEC TABLE 310.15(B)(16) COPPER THHN CONDUCTORS. EXISTING CONDUCTORS AND WIRING MAY NEED TO BE INSPECTED AND VERIFIED BY ELECTRICAL CONTRACTOR. 3)EVCS ARE CONSIDERED CONTINUOUS LOADS AND ACTUAL NAME PLATE VALUES ARE USED.</div> | | | | | | | | | | | | | |
| DEMAND LOAD PHASE-B (KVA) | | | 19.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.20 | | | | | | | | | | | | | | | |
| TOTAL DEMAND LOAD (KVA) | | | 38.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.40 | | | | | | | | | | | | | | | |
| LARGEST DEMAND LOAD OF ANY PHASE (KVA) | | | 19.20 | | | | | | | | | | | | | | | | | | | | | |
| LARGEST DEMAND LOAD OF ANY PHASE (AMP) | | | 160 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL DEMAND LOAD OF ALL PHASES (KVA) | | | 38.40 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL DEMAND LOAD OF ALL PHASES (AMP) | | | 160 | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM FEEDER AMPACITY SELECTION (AMP) | | | 160 | | | | | | | | | | | | | | | | | | | | | |

| CONDUIT FILL CALCULATOR | | | | | | | | | |
|-------------------------|--|--------------------|--------------------|-----------------------------|-----------------------------|--|-------------------------------|----------------------|--|
| Select wire type THHN | | | | | | | | | |
| Wire Size | Enter number of conductors for each size | Total Area sq-inch | Conduit Trade Size | Trough and Conduit ID Sizes | Total area in square inches | 20% Fill of trough 40% Fill of Conduit | Current total Area sq. inches | Current fill percent | |
| 18 | | | TROUGH | 4.000 | 16.000 | 3.200 | 0.2239 | 1.40% | |
| 16 | | | | 6.000 | 36.000 | 7.200 | 0.2239 | 0.62% | |
| 14 | | 0.0000 | | 8.000 | 64.000 | 12.800 | 0.2239 | 0.35% | |
| 12 | | 0.0000 | PVC | Select type of conduit | | | | | |
| 10 | 1 | 0.0211 | 0.50 | 000.562 | 0.248 | 0.099 | 0.2239 | | |
| 8 | | 0.0000 | 0.75 | 000.722 | 0.409 | 0.164 | 0.2239 | | |
| 6 | 4 | 0.2028 | 1 | 000.936 | 0.688 | 0.275 | 0.2239 | 32.54% | |
| 4 | | 0.0000 | 1.25 | 001.255 | 1.237 | 0.495 | 0.2239 | 18.10% | |
| 3 | | 0.0000 | 1.50 | 001.476 | 1.711 | 0.684 | 0.2239 | 13.09% | |
| 2 | | 0.0000 | 2 | 001.913 | 2.874 | 1.150 | 0.2239 | 7.79% | |
| 1 | | 0.0000 | 3 | 002.864 | 6.442 | 2.577 | 0.2239 | 3.48% | |
| 1/0 | | 0.0000 | 3.5 | 003.326 | 8.688 | 3.475 | 0.2239 | 2.58% | |
| 2/0 | | 0.0000 | 4.0 | 003.786 | 11.258 | 4.503 | 0.2239 | 1.99% | |
| 3/0 | | 0.0000 | | | | | | | |
| 4/0 | | 0.0000 | | | | | | | |
| 250 | | 0.0000 | | | | | | | |
| 300 | | 0.0000 | | | | | | | |
| 350 | | 0.0000 | | | | | | | |

NOTE:
1) All dimensions are from manufacturers specifications.
2) Dimensions are based on 2017 NEC.
3) ID area based on NEC 2017 Table 4 Chapter 9.



ELECTRICAL RISER DIAGRAM

KEY NOTES:

- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
- CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.
- A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH NEC ARTICLE 110.3
- ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS.
- ALL CONDUCTORS TO BE THHN COPPER
- ALL CONDUCTORS AND CABLES SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES
- EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER NEC 210.5
- ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA ELECTRIC GROUNDING CONDUCTORS.
- ALL UNDERGROUND CONDUIT TO BE UL RATED, MINIMUM 24" DEEP.
- WIRING FOR ELECTRICAL VEHICLE CHARGING STATIONS TO BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND SPECIFICATIONS.
- CONTRACTOR TO ENSURE THAT ALL FEEDERS, CONDUITS, CONDUCTORS, OCPD, TRANSFORMERS, ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT IS SIZED TO COMPLY WITH CURRENT NEC AND LOCAL AHJ CODES.
- CONTRACTOR IS RESPONSIBLE TO VERIFY DESIGN, ENGINEERING ASSUMPTIONS AND EXISTING FIELD CONDITIONS. REPORT ANY INSUFFICIENCIES TO ENGINEER OF RECORD PRIOR TO ANY WORK BEING PERFORMED.
- ELECTRICAL PANEL PROVIDING POWER TO EVCS MUST BE IN COMPLIANCE WITH NEC 625.43, READILY ACCESSIBLE LOCATION. THE DISCONNECTING MEANS SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH 110.25.
- GROUNDING INSTALLATION AS PER NEC ART. 250.
- PANEL-EV KAIC RATING:
XFMR-EV 30KVA, IF XFMR-EV %Z>0.83 THEN 10KAIC. IF XFMR-EV<0.83 THEN 22KAIC.
XFMR-EV 45KVA, IF XFMR-EV %Z>1.3 THEN 10KAIC. IF XFMR-EV<1.3 THEN 22KAIC.
XFMR-EV 75KVA, IF XFMR-EV %Z>2 THEN 10KAIC. IF XFMR-EV<2 THEN 22KAIC.
XFMR-EV 112.5KVA, IF XFMR-EV %Z>3.13 THEN 10KAIC. IF XFMR-EV<3.13 THEN 22KAIC.
XFMR-EV 150KVA, IF XFMR-EV %Z>4.17 THEN 10KAIC. IF XFMR-EV<4.17 THEN 22KAIC.
- THE CONTRACTOR TO VERIFY THE KAIC RATING OF THE PANEL-EV PRIOR INSTALLING TO THE SITE. COORDIANTE WITH THE UTILITY.

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CLIENT:

ELECTRIFY
EVSE

PROJECT:

PEACH CORNERS
EVCS
INSTALLATION

ADDRESS:

5051 PEACHTREE
CORNERS CIRCLE,
PEACHTREE CORNERS,
GA 30092

AMPER PROJECT NUMBER:

1544

SHEET SIZE:

24X36

DESIGNED BY:

AC

DRAWN BY:

IB

CHECKED BY:

DEE

SHEET TITLE:

ELECTRICAL RISER
DIAGRAM & CALCULATIONS

SHEET NO:

EV04

SEAL & SIGNATURE:



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EVSE**

PROJECT:
**PEACH CORNERS
EVCS
INSTALLATION**

ADDRESS:
5051 PEACHTREE
CORNERS CIRCLE,
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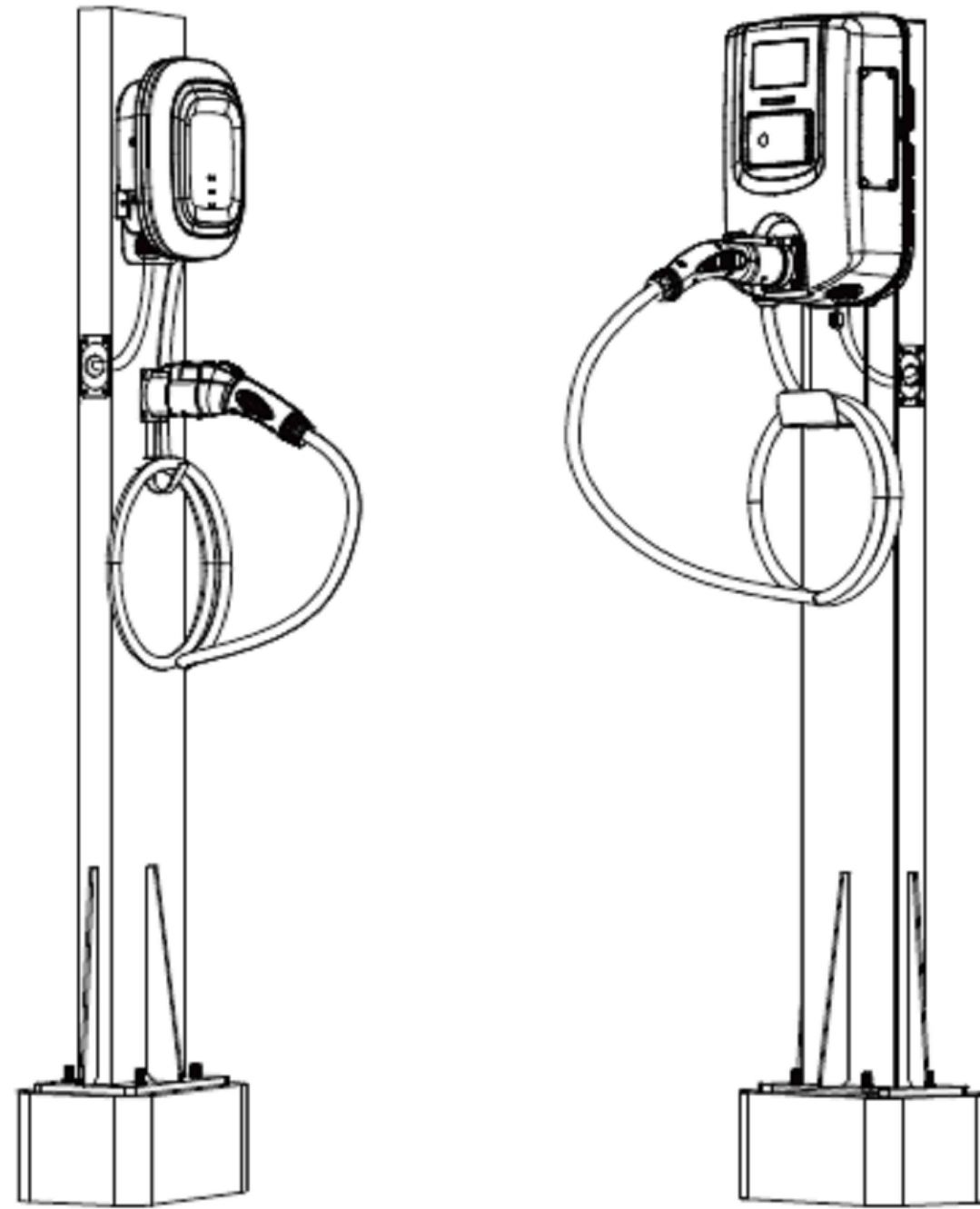
| | |
|-------------------------------|--------------------|
| AMPER PROJECT NUMBER: 1544 | |
| SHEET SIZE: 24X36 | DRAWN BY: IB |
| DESIGNED BY: AC | CHECKED BY: DEE |

SHEET TITLE:
INSTALLATION DETAILS 3

SHEET NO:
EV07



- The Aw series EVSE is mounted, is shown as follows, for reference.



4. Specification

| | |
|--------------------------------|--|
| Model Name | AW32 UL Version |
| Rated Input Voltage | 200-240 VAC / Single Phase |
| Rated Output Current | Single Phase / 32A |
| AC Power Frequency | 50/60 Hz |
| Input Protection | UVP,OVP,RCD,SPD,Ground Fault Protection |
| Output Protection | OCP,OTP,Control Pilot Fault Protection |
| Output Interface | SAE J1772 AC Charging Connector |
| Storage Temperature | -40°C to + 70°C |
| Operation Temperature | -30°C to +50°C |
| Relative Operation Humidity | 95%RH Maximum |
| Relative Storage Humidity | 95%RH Maximum |
| RFID Authorization | Networking Version or Wi-Fi Version or 4G Version |
| RJ45 Cable Inlet ^{*1} | 10M/100M Base-T |
| Wi-Fi Function ^{*2} | 802.11 b/g/n |
| 2G/3G/4G Fncion ^{*3} | LTE, UMTS/HSPA(+), GSM/GPRS/EDGE |
| Cable Length | 5M (From charger's body to lower edge of charging connector) |
| Protection Level | NEMA TYPE 3R |
| Installation Type | Wall-Mount |
| Altitude | ± 2000 m |
| Weight | 4±0.5kg |
| Dimensions | 260mm x 280mm x 100mm |
| Status Indication | Red, Green, Blue LED |

- *1 Networking Version or Wi-Fi Version or 4G Version
- *2 Wi-Fi Version
- *3 4G Version

EVCS OVERVIEW

SCALE
N.T.S.

1

PEDESTAL OVERVIEW

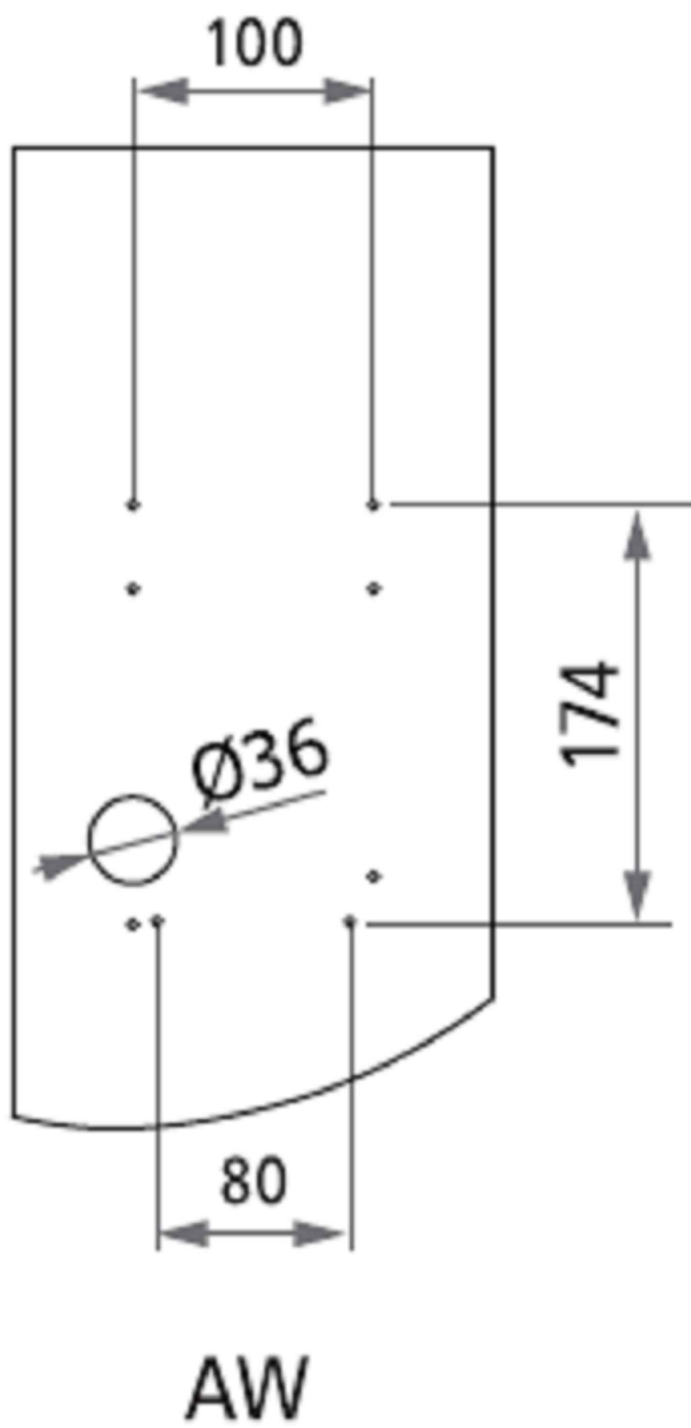
SCALE
N.T.S.

3

PRODUCT SPECIFICATION

SCALE
N.T.S.

5



PEDESTAL BASE PLATE DETAIL

SCALE
N.T.S.

2

(NOT USED)

SCALE
N.T.S.

4

(NOT USED)

SCALE
N.T.S.

6