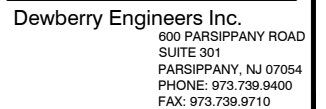
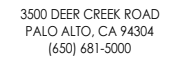


**SITE ADDRESS:  
11900 PALACE WAY,  
FAIRFAX, VA 22030  
TRT ID: 12482**



DRAWN BY: FG

CHECKED BY: BBR

APPROVED BY: DER

PROJECT #:	50123704
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JOB #: 50135542

REV.	DATE	DESCRIPTION
1	04/05/21	LANDSCAPE DESIGN
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C	03/23/21	FINAL REVIEW
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MONUMENT CORNER -  
FAIRFAX VA  
TRT ID: 12482  
SITE ADDRESS:

SHEET TITLE

# TITLE SHEET

SHEET NUMBER

T-1

PROPOSED TESLA EV SITE ADDRESS:  
11900 PALACE WAY  
FAIRFAX, VA 22030

## EPT NINETEEN INC.

APN: 0561-01-00471

DOMINION ENERGY  
ANDREW HEDRICK  
(434) 981-3039  
ANDREW.J.HEDRICK@DOMINIONENERGY.COM  
WORK ORDER #: TBD

COUNTY:  
FAIRFAX COUNTY

LATITUDE\*:  
38° 51' 33.51" N

LONGITUDE\*:  
77° 21' 26.90" W

\*BASED ON GOOGLE EARTH

DAVID REVETTE, PE  
DEWBERRY ENGINEERS INC.  
(973) 576-9639  
drevette@Dewberry.com

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.

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

VIRGINIA UNIFORM BUILDING & ENERGY CODES, CONSISTENT WITH THE FOLLOWING CODES:

2015 INTERNATIONAL BUILDING CODE (IBC) W/AMENDMENTS.

2015 INTERNATIONAL EXISTING BUILDING CODE (IBC) W/AMENDMENTS.

2017 NATIONAL ELECTRIC CODE (NEC).

2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) W/AMENDMENTS.

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

- INSTALL (2) TESLA V3 SUPERCHARGER CABINETS
- INSTALL (8) TESLA CHARGING POSTS
- INSTALL (2) 600A ELECTRICAL DISCONNECTS
- INSTALL (1) UTILITY TRANSFORMER, CT CABINET & METER
- INSTALL (1) TESLA SITE CONTROLLER & ELECTRICAL DISCONNECT

JURISDICTION: FAIRFAX COUNTY  
APN: 0561-01-00471  
LAND USE: COMMERCIAL

SHT. NO.	SHEET TITLE
T-1	TITLE SHEET
C-1	SITE PLAN
C-2	EXISTING CONDITIONS PLAN
C-3	EQUIPMENT/PARKING PLAN
C-4	PARKING SIGNS & SCHEDULE
E-1	ELECTRICAL ONE-LINE DIAGRAM

Map of the project area in the City of San Jose, California. The map shows a large area of land with various buildings, parking lots, and green spaces. A white arrow points to a specific location labeled "SITE". A north arrow is located in the bottom left corner.

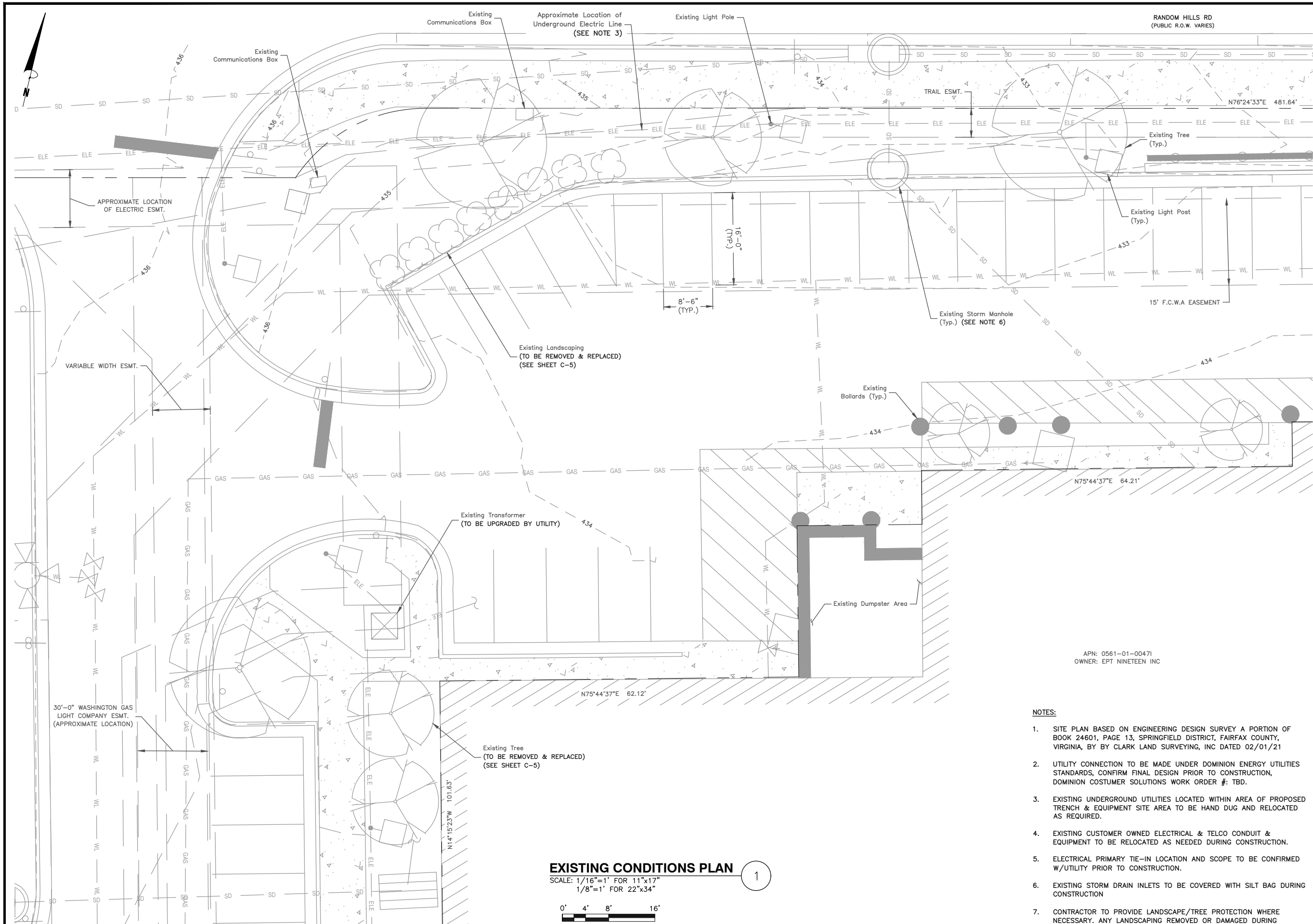
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE TESLA REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**va811.com**  
Dig With GARDEN

Dial 811 in Virginia or  
1-800-552-7001

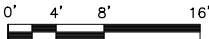






**EXISTING CONDITIONS PLAN**

SCALE: 1/16"=1' FOR 11"x17"  
1/8"=1' FOR 22"x34"



1

**NOTES:**

1. SITE PLAN BASED ON ENGINEERING DESIGN SURVEY A PORTION OF BOOK 24601, PAGE 13, SPRINGFIELD DISTRICT, FAIRFAX COUNTY, VIRGINIA, BY CLARK LAND SURVEYING, INC DATED 02/01/21
2. UTILITY CONNECTION TO BE MADE UNDER DOMINION ENERGY UTILITIES STANDARDS, CONFIRM FINAL DESIGN PRIOR TO CONSTRUCTION, DOMINION COSTUMER SOLUTIONS WORK ORDER #: TBD.
3. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA TO BE HAND DUG AND RELOCATED AS REQUIRED.
4. EXISTING CUSTOMER OWNED ELECTRICAL & TELCO CONDUIT & EQUIPMENT TO BE RELOCATED AS NEEDED DURING CONSTRUCTION.
5. ELECTRICAL PRIMARY TIE-IN LOCATION AND SCOPE TO BE CONFIRMED W/UTILITY PRIOR TO CONSTRUCTION.
6. EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG DURING CONSTRUCTION
7. CONTRACTOR TO PROVIDE LANDSCAPE/TREE PROTECTION WHERE NECESSARY. ANY LANDSCAPING REMOVED OR DAMAGED DURING CONSTRUCTION TO BE REPLACED IN KIND. SEE SHEET C-5 FOR LANDSCAPE DESIGN



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



Dewberry Engineers Inc.  
600 PARSIPPANY ROAD  
SUITE 301  
PARSIPPANY, NJ 07054  
PHONE: 973.739.9400  
FAX: 973.739.9710

NOT FOR  
CONSTRUCTION

DRAWN BY: FG

CHECKED BY: BBR

APPROVED BY: DER

PROJECT #: 50123704

JOB #: 50135542

**SUBMITTALS**

REV.	DATE	DESCRIPTION
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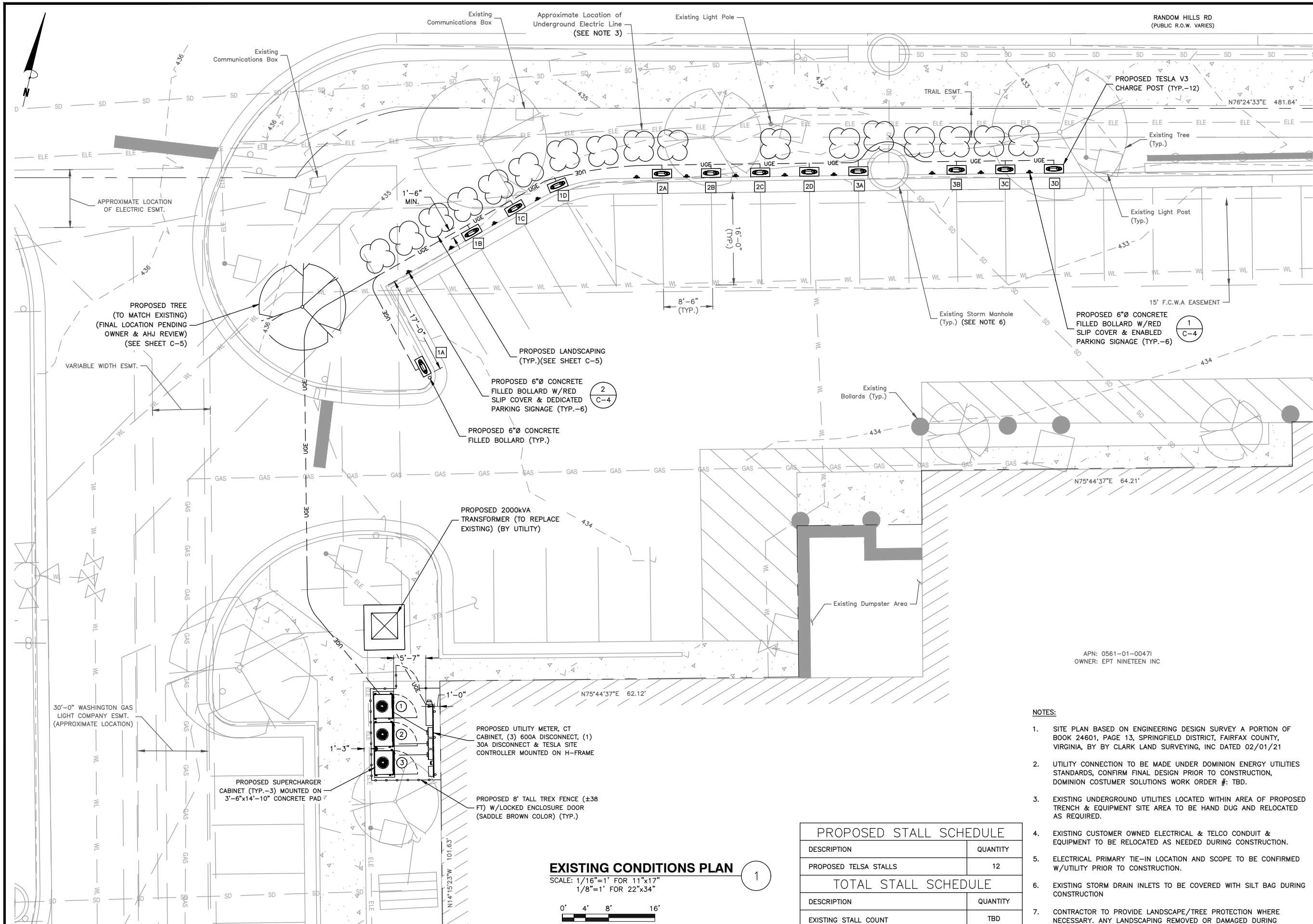
MONUMENT CORNER -  
FAIRFAX VA  
TRT ID: 12482  
SITE ADDRESS:  
11900 PALACE WAY  
FAIRFAX, VA 22030

**SHEET TITLE**

EXISTING  
CONDITIONS PLAN

**SHEET NUMBER**

C-2



3500 DEER CREEK ROAD  
PALO ALTO, CA 94304  
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NOT FOR  
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DRAWN BY: FG

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PROJECT #: 50123704

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FAIRFAX VA  
TRT ID: 12482  
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11900 PALACE WAY  
FAIRFAX, VA 22030

#### SHEET TITLE

EQUIPMENT/  
PARKING PLAN

#### SHEET NUMBER

C-3

#### NOTES:

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- CONTRACTOR TO PROVIDE LANDSCAPE/TREE PROTECTION WHERE NECESSARY. ANY LANDSCAPING REMOVED OR DAMAGED DURING CONSTRUCTION TO BE REPLACED IN KIND. SEE SHEET C-5 FOR LANDSCAPE DESIGN



ENABLED SIGNAGE DETAIL  
SCALE: N.T.S.

1



DEDICATED SIGNAGE DETAIL  
SCALE: N.T.S.

2

CHARGING POST CIRCUIT SCHEDULE		
SUPERCHARGER	CHARGE POST	DEDICATED/ENABLED
①	1A	DEDICATED
	1B	DEDICATED
	1C	DEDICATED
	1D	DEDICATED
②	2A	DEDICATED
	2B	DEDICATED
	2C	ENABLED
	2D	ENABLED
③	3A	ENABLED
	3B	ENABLED
	3C	ENABLED
	3D	ENABLED

**TESLA**

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

**Dewberry**

Dewberry Engineers Inc.  
600 PARSIPPANY ROAD  
SUITE 301  
PARSIPPANY, NJ 07054  
PHONE: 973.739.9400  
FAX: 973.739.9710

NOT FOR  
CONSTRUCTION

DRAWN BY: FG

CHECKED BY: BBR

APPROVED BY: DER

PROJECT #: 50123704

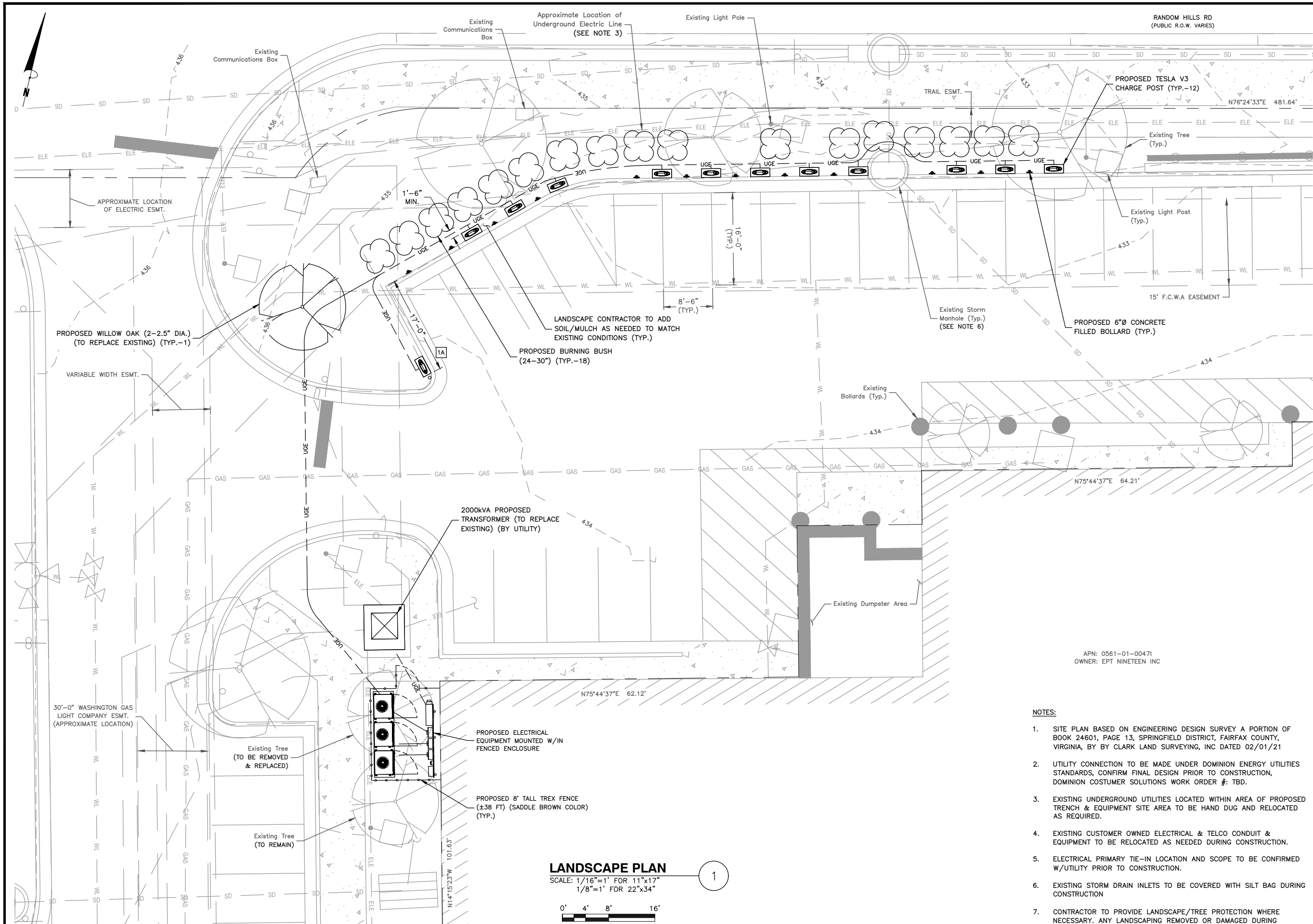
JOB #: 50135542

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FAIRFAX VA  
TRT ID: 12482  
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11900 PALACE WAY  
FAIRFAX, VA 22030

SHEET TITLE  
PARKING SIGNS  
& SCHEDULE

SHEET NUMBER  
C-4



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



Dewberry Engineers Inc.  
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PHONE: 973.739.9400  
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NOT FOR  
CONSTRUCTION

DRAWN BY: FG

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APPROVED BY: DER

PROJECT #: 50123704

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FAIRFAX VA  
TRT ID: 12482  
SITE ADDRESS:  
11900 PALACE WAY  
FAIRFAX, VA 22030

#### SHEET TITLE

LANDSCAPE PLAN

#### SHEET NUMBER

C-5





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



Dewberry Engineers Inc.  
600 PARSIPPANY ROAD  
SUITE 301  
PARSIPPANY, NJ 07054  
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NOT FOR  
CONSTRUCTION

DRAWN BY: FG

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APPROVED BY: DER

PROJECT #: 50123704

JOB #: 50135542

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FAIRFAX, VA 22030

SHEET TITLE

ELECTRICAL  
ONE-LINE DIAGRAM

SHEET NUMBER

E-1

#### SERVICE ELECTRICAL CIRCUIT SCHEDULE

NO:	FROM	TO	CONFIGURATION
1	PROPOSED TRANSFORMER	PROPOSED CT CABINET: INCOMING	BY UTILITY
2	PROPOSED CT CABINET: OUTGOING	PROPOSED SERVICE BREAKER (600A) 80% RATED (TYP.-2)	[2 SETS:] (3) 500MCM AL (THWN-2) (1) 500MCM AL (THWN-2) NEUT IN 4" PVC CONDUIT
3	PROPOSED SERVICE BREAKER (600A) 80% RATED (TYP.-2)	PROPOSED TESLA SUPERCHARGER	[2 SETS:] (3) 500MCM AL (THWN-2) (1) 500MCM AL (THWN-2) NEUT (1) #1/0 CU (THWN-2) GND IN 4" PVC CONDUIT
4	DC BUS BETWEEN PROPOSED SUPERCHARGERS	DC BUS BETWEEN PROPOSED SUPERCHARGERS	[2 SETS:] (2) 500MCM AL (XHHW-2) (1) 1/0 CU GROUND & (1) 3/0 AWG AL DC MID 1000V RATED IN 4" PVC
5	PROPOSED TESLA SUPERCHARGER	PROPOSED TESLA POST (TYP.-8)	[1 SET PER CHARGE POST:] (4) 350MCM AL (XHHW-2) (1000V RATED) (1) #1 AWG CU EGC & COMM CABLE (600V RATED) (PER TESLA) IN 4" PVC CONDUIT
6	PROPOSED CT CABINET: OUTGOING	PROPOSED 30A SERVICE DISCONNECT	(2) #2 AL & (1) #6 AL NEUT IN 1-1/4" PVC CONDUIT
7	PROPOSED 30A SERVICE DISCONNECT	PROPOSED TESLA SITE CONTROLLER	(2) #10 AL & (1) #12 CU GND IN 3/4" PVC CONDUIT
8	PROPOSED TESLA SITE CONTROLLER	PROPOSED TESLA SUPERCHARGER	CAT5E IN 1" PVC CONDUIT

#### NOTES:

- 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).
- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PREFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND UTILITY COMPANY STANDARDS.
- ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
- DC RUN LENGTH MAXIMUM IS 320' INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS OVER THE MAXIMUM SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF TESLA.
- 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.
- UTILITY CONDUITS, CONNECTORS, TRANSFORMER PAD & TRANSFORMER FOUNDATION TO BE INSTALLED PER UTILITY SPECIFICATION. CONFIRM LATEST SPECIFICATIONS PRIOR TO CONSTRUCTION.
- EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC SAFETY MEASURES THROUGHOUT DURATION OF CONSTRUCTION. COORDINATE ANY ACCESS ROAD CLOSURES W/OWNER.
- CONTRACTOR TO PROVIDE EMERGENCY SIGNAGE TO BE LOCATED ON PROPOSED H-FRAME FOR DESIGNATION OF UTILITY POWER SHUT-OFF AND EMERGENCY CONTACT INFORMATION.

SQUARE-D M-FRAME BREAKER  
(65KAIC MIN.) MOUNTED ON  
H-FRAME (TYP.)

SERVICE DISCONNECT #1

600A  
80% RATED

GRND

NEUT

SERVICE DISCONNECT #2

600A  
80% RATED

GRND

NEUT

SERVICE DISCONNECT #3

600A  
80% RATED

GRND

NEUT

#6 AWG BARE Cu  
GROUNDING ELECTRODE  
CONDUCTOR PER NEC  
250.66(A) (TYP.)

GROUNDING ELECTRODE  
5/8"x8'-0" COPPER  
GLAD GROUND ROD  
INSTALLATION PER NEC  
250.52(A)(5), 250.53(A)  
& 250.68 (TYP.)

#3/0 Cu PER  
NEC 250.66  
(TYP.)

MANUFACTURER  
PROVIDED MAIN  
BONDING JUMPER PER  
NEC 250.24(A)(4),  
250.28(C), 250.8(A)(7)  
(TYP.)

SITE CONTROLLER  
MOUNTED TO  
H-FRAME

SERVICE  
DISCONNECT  
#4

30A DISC. IN  
NEMA-3R ENCL.

30AS/1P  
6AF  
600V

#8 Cu

PROPOSED V3 CHARGING  
POSTS (TYP.-4 PER  
SUPERCHARGER)

#### NOTES:

- NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
- NEUTRAL IS NOT TO BE BONDED TO EQUIPMENT GROUND.
- ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.

#### SYSTEM ONE-LINE DIAGRAM

SCALE: N.T.S.

#### UTILITY S.O.W. RESPONSIBILITIES

SCOPE OF WORK	BY UTILITY	BY CONTRACTOR
PROVIDE & INSTALL UTILITY TRANSFORMER	X	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD & ASSOCIATED GROUNDING	X	
PROVIDE & INSTALL SECONDARY CONDUITS & CONDUCTORS (TO LINE SIDE OF CT CABINET)	X	
PROVIDE & INSTALL H-FRAME MOUNTED UTILITY CT CABINET	X	
PROVIDE & INSTALL H-FRAME MOUNTED UTILITY SOCKET		X
TERMINATE SECONDARY CONDUCTORS W/IN CT CABINET	X	
PROVIDE UTILITY METER W/IN SOCKET	X	

#### BREAKER TRIP SETTINGS

600A SUPERCHARGER BREAKER:  
- FIXED TRIP=600  
- INST. TRIP (Im) = 10

#### UTILITY FAULT CURRENT

TRANSFORMER: 750 KVA  
SECONDARY VOLTAGE: 277/480V  
SECONDARY FAULT CURRENT: 22,680 A

\* FAULT CURRENT INFORMATION PROVIDED  
BY DOMINION POWER ON XX/XX/XX.