



Please check the appropriate box and refer to supplemental forms for submittal requirements. All fees must be paid at the time of application.

Administrative Decisions	Decisions Requiring a Public Meeting or Hearing	Policy Decisions
<input type="checkbox"/> Archaeological Certificate (Form P3)	<input type="checkbox"/> Site Plan – EPC including any Variances – EPC (Form P1)	<input type="checkbox"/> Adoption or Amendment of Comprehensive Plan or Facility Plan (Form Z)
<input type="checkbox"/> Historic Certificate of Appropriateness – Minor (Form L)	<input type="checkbox"/> Master Development Plan (Form P1)	<input type="checkbox"/> Adoption or Amendment of Historic Designation (Form L)
<input type="checkbox"/> Alternative Signage Plan (Form P3)	<input type="checkbox"/> Historic Certificate of Appropriateness – Major (Form L)	<input type="checkbox"/> Amendment of IDO Text (Form Z)
<input type="checkbox"/> Minor Amendment to Site Plan (Form P3)	<input type="checkbox"/> Demolition Outside of HPO (Form L)	<input type="checkbox"/> Annexation of Land (Form Z)
<input type="checkbox"/> WTF Approval (Form W1)	<input type="checkbox"/> Historic Design Standards and Guidelines (Form L)	<input type="checkbox"/> Amendment to Zoning Map – EPC (Form Z)
	<input type="checkbox"/> Wireless Telecommunications Facility Waiver (Form W2)	<input type="checkbox"/> Amendment to Zoning Map – Council (Form Z)
		Appeals
		<input type="checkbox"/> Decision by EPC, LC, ZHE, or City Staff (Form A)

APPLICATION INFORMATION

Applicant:		Phone:
Address:		Email:
City:	State:	Zip:
Professional/Agent (if any):		Phone:
Address:		Email:
City:	State:	Zip:
Proprietary Interest in Site:		List <u>all</u> owners:

BRIEF DESCRIPTION OF REQUEST

Tesla would like to install 8 Tesla EV Supercharging posts and associated utilities.

SITE INFORMATION (Accuracy of the existing legal description is crucial! Attach a separate sheet if necessary.)

Lot or Tract No.:	Block:	Unit:
Subdivision/Addition:	MRGCD Map No.:	UPC Code:
Zone Atlas Page(s):	Existing Zoning:	Proposed Zoning:
# of Existing Lots:	# of Proposed Lots:	Total Area of Site (acres):

LOCATION OF PROPERTY BY STREETS

Site Address/Street:	Between:	and:
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CASE HISTORY (List any current or prior project and case number(s) that may be relevant to your request.)

Signature: <i>Benjamin Dalton</i>	Date:
Printed Name:	<input type="checkbox"/> Applicant or <input type="checkbox"/> Agent

FOR OFFICIAL USE ONLY

Case Numbers	Action	Fees	Case Numbers	Action	Fees

Meeting/Hearing Date:	Fee Total:
Staff Signature:	Date: Project #

FORM P3: ADMINISTRATIVE DECISIONS AND MINOR AMENDMENTS**_ ARCHAEOLOGICAL CERTIFICATE**

A Single PDF file of the complete application including all documents being submitted must be emailed to PLNDRS@cabq.gov prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other online resources such as Dropbox or FTP. The PDF shall be organized in the number order below.

- ___ 1) Development Review application form completed, signed, and dated
- ___ 2) Form P3 with all the submittal items checked/marked
- ___ 3) Zone Atlas map with the entire site clearly outlined and labeled
- ___ 4) Letter of authorization from the property owner if application is submitted by an agent
- ___ 5) Archaeological Compliance Form with property information section completed
- ___ 6) Only the information above is required unless the City Archaeologist determines that the application does not qualify for a Certificate of No Effect, in which case a treatment plan prepared by a qualified archaeologist that adequately mitigates any archeological impacts of the proposed development must be submitted and reviewed for a Certificate of Approval per the criteria in IDO Section 14-16-6-5(A)(3)(b)

_ MINOR AMENDMENT TO SITE PLAN – ADMIN, EPC, or DRB

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- ___ 4) Letter of authorization from the property owner if application is submitted by an agent
- ___ 5) Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-4(Y)(2)
- ___ 6) The approved Site Plan being amended
- ___ 7) Copy of the Official Notice of Decision associated with the prior approval
- ___ 8) The proposed Site Plan, with changes circled and noted

Refer to the Site Plan Checklist for information need on the proposed Site Plan

Minor Amendments be within the thresholds established in IDO Table 6-4-4. Any amendment beyond these thresholds is considered a Major Amendment and must be processed through the original decision-making body for the request

_ MINOR AMENDMENT TO SITE DEVELOPMENT PLAN APPROVED PRIOR TO THE EFFECTIVE DATE OF THE IDO

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- ___ 4) Letter of authorization from the property owner if application is submitted by an agent
- ___ 5) Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-4(Z)(1)(a)
- ___ 6) The approved Site Plan being amended
- ___ 7) Copy of the Official Notice of Decision associated with the prior approval
- ___ 8) The proposed Site Plan, with changes circled and noted

Refer to the Site Plan Checklist for information need on the proposed Site Plan

Minor Amendments be within the thresholds established in IDO Table 6-4-4. Any amendment beyond these thresholds is considered a Major Amendment and must be processed through the original decision-making body for the request

_ ACCELERATED EXPIRATION OF SITE PLAN

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- ___ 4) Letter of authorization from the property owner if application is submitted by an agent
- ___ 5) Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-5(C)(3)(b)
- ___ 6) Site Plan to be Expired

_ ALTERNATIVE SIGNAGE PLAN

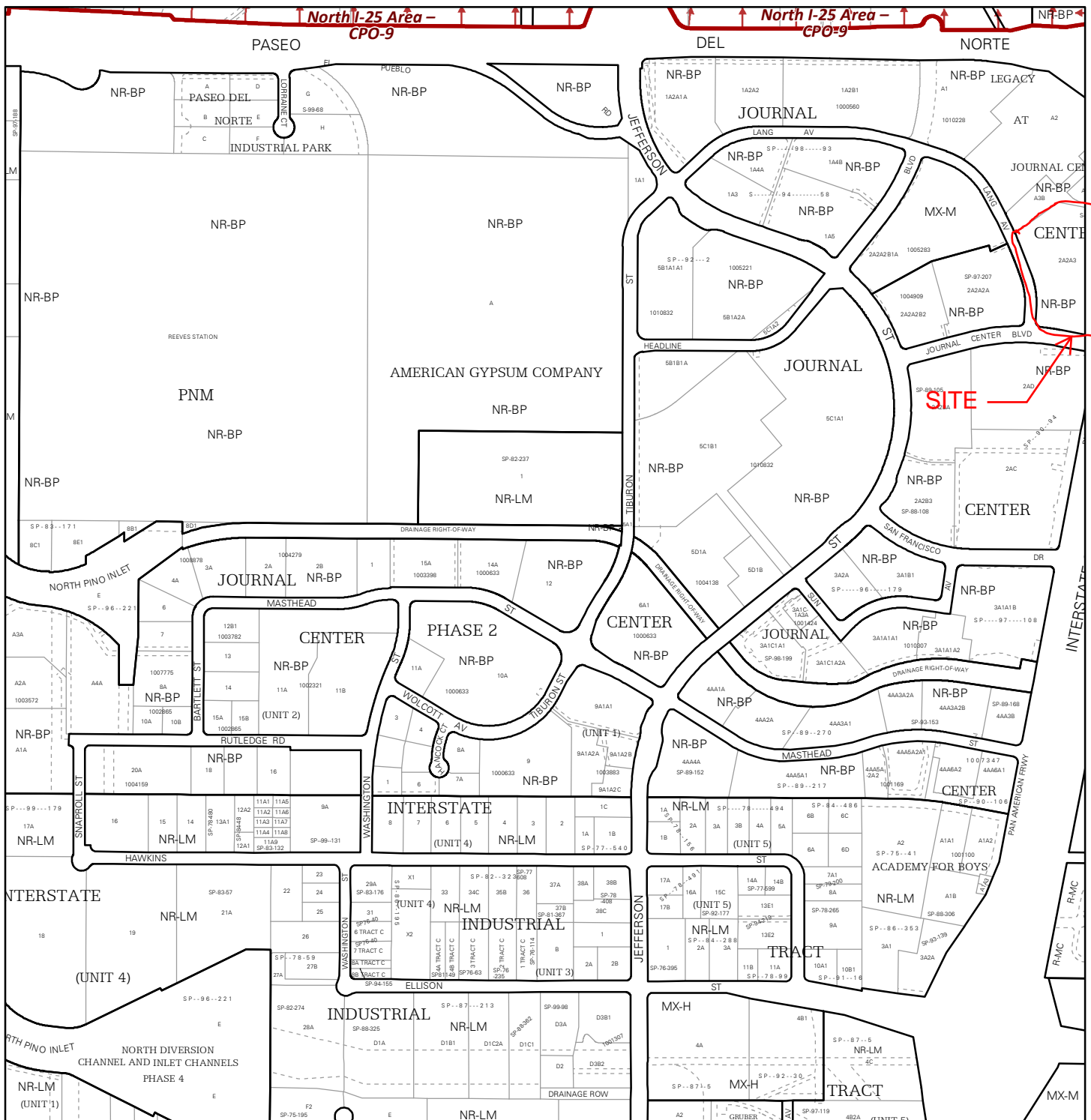
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- ___ 2) Form P3 with all the submittal items checked/marked
- ___ 3) Zone Atlas map with the entire site clearly outlined and labeled
- ___ 4) Letter of authorization from the property owner if application is submitted by an agent
- ___ 5) Proposed Alternative Signage Plan compliant with IDO Section 14-16-5-12(F)(5)
- ___ 6) Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-5(C)(3)(b)
- ___ 7) Sign Posting Agreement
- ___ 8) Required Content of Notice at Submittal per IDO Section 14-16-6-4(K)(1)
 - ___ Office of Neighborhood Coordination notice inquiry response
 - ___ Completed notification form(s), proof of additional information provided in accordance with IDO Section 6-4(K)(1)(b)
 - ___ Proof of emailed notice to affected Neighborhood Association representatives

_ ALTERNATIVE LANDSCAPING PLAN

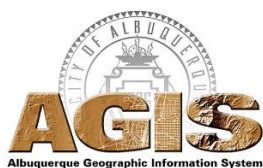
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- ___ 3) Zone Atlas map with the entire site clearly outlined and labeled
- ___ 4) Letter of authorization from the property owner if application is submitted by an agent
- ___ 5) Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-5-6(C)(16)
- ___ 6) Landscape Plan

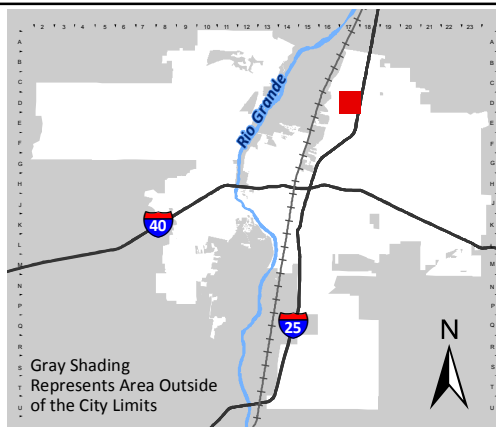


For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

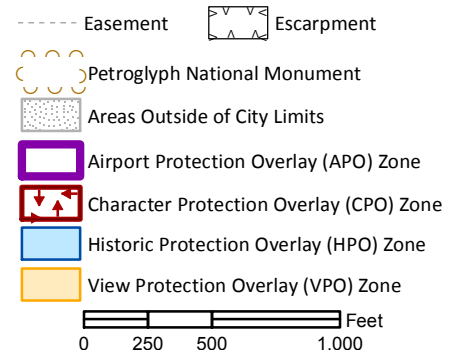
IDO Zone Atlas May 2018

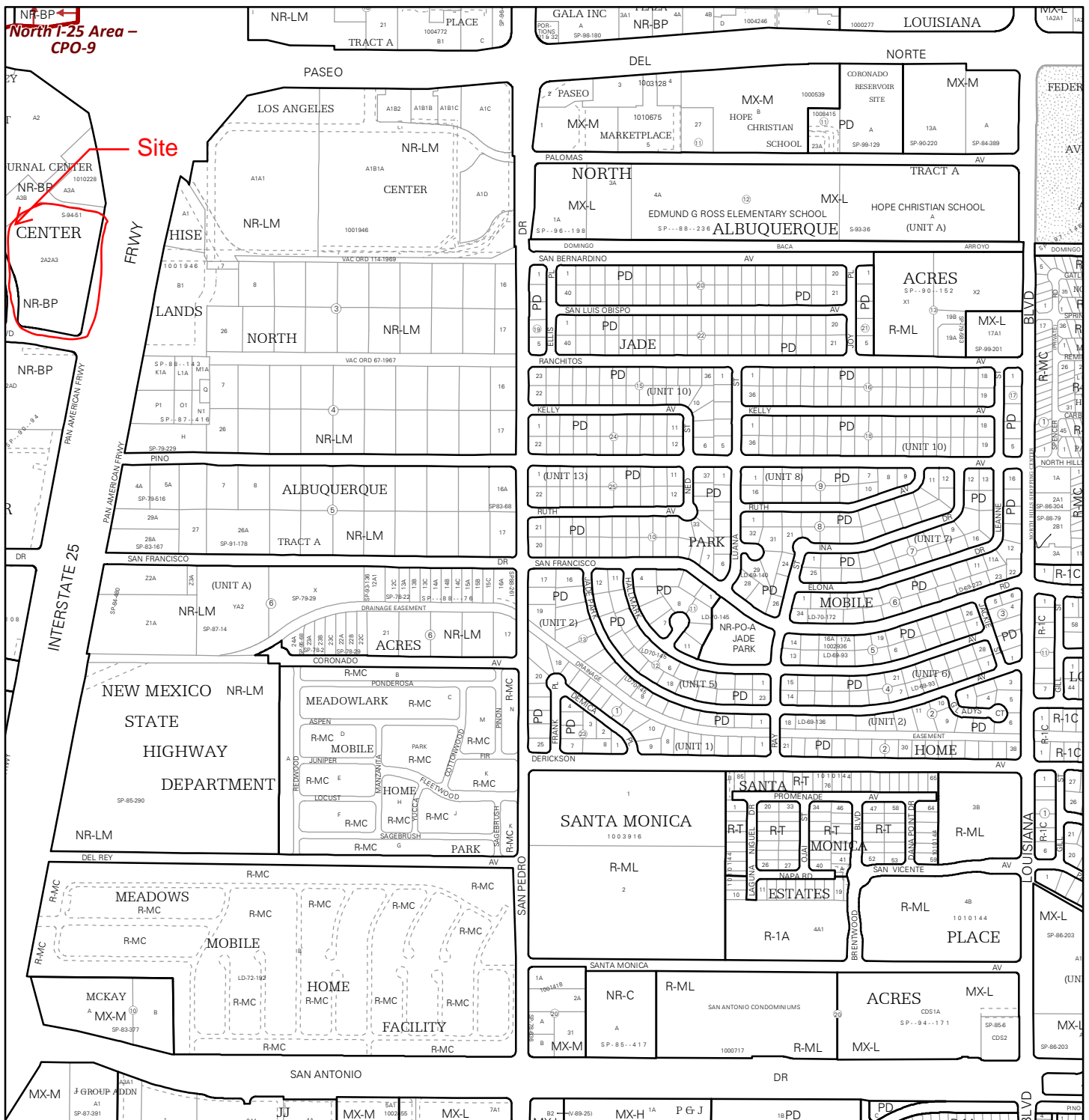


IDO Zoning information as of May 17, 2018
The Zone Districts and Overlay Zones
are established by the
Integrated Development Ordinance (IDO).



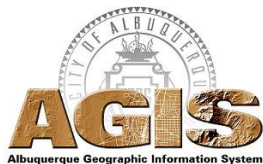
Zone Atlas Page: D-17-Z



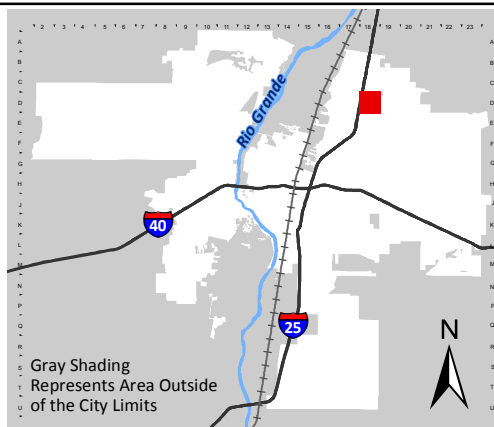


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IDO Zone Atlas May 2018



IDO Zoning information as of May 17, 2018
The Zone Districts and Overlay Zones
are established by the
Integrated Development Ordinance (IDO).



Zone Atlas Page: D-18-Z

- Easement
 - Escarpment
 - Petroglyph National Monument
 - Areas Outside of City Limits
 - Airport Protection Overlay (APO) Zone
 - Character Protection Overlay (CPO) Zone
 - Historic Protection Overlay (HPO) Zone
 - View Protection Overlay (VPO) Zone
- Gray Shading
Represents Area Outside
of the City Limits
- 0 250 500 1,000 Feet

LETTER OF AUTHORIZATION

APPLICATION FOR ZONING/USE/BUILDING PERMIT

The undersigned, Titan Journal Center Hotel, LLC, owner of the below described Property ("Owner"), does hereby appoint Tesla Inc. (Tesla) and/or Glaus, Pyle, Schomer, Burns & DeHaven, Inc (GPD) and their employees, agents and contractors, as Owner's agent for the purpose of filing and completing any approval or application necessary to ensure its ability to use and/or construct improvements to the Property leased or licensed to it for the purpose of installing an electric car charging facility and for constructing or installing charging stations and related equipment on the Property as Tesla Inc. may require for its electric car charging system. I understand that the application may be denied, modified or approved with conditions and that those conditions or modifications must be complied with prior to issuance of building permits. Owner hereby authorizes the employees of the City with jurisdiction to enter upon the Property during normal business hours as necessary to inspect the Property for the purpose of processing this application. GPD will be responsible for all costs, fees and expenses incurred in securing any approval.

Property Located at: 5161 Lang Avenue NE, Albuquerque, NM 87109 ("Property")

Owner's Name (print): Titan Journal Center Hotel, LLC

Signature (and title, if applicable) of Property Owner:

By: Titan Journal Center Hotel, LLC

By: 

Ben F. Spencer

Title: Manager

Date Executed: October 11, 2022

Site Name: Tesla - Albuquerque, NM

TESLA

SUPERCHARGER NETWORK



Justification Letter Tesla Supercharger Station Albuquerque, NM

Project Contact

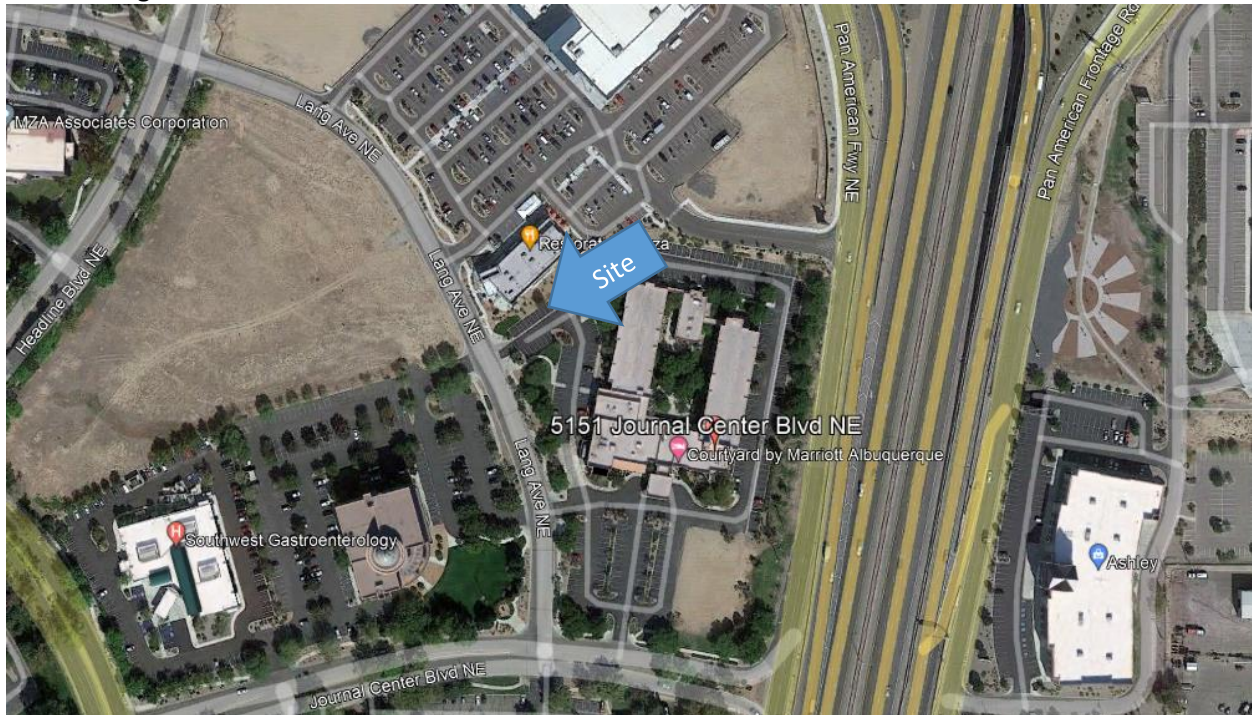
Elizabeth Sorensen, P.E.
Design Manager, Southwest Region
esorensen@tesla.com
515-720-3212

Permit Coordinator

Benjamin Dalton
GPD Planning Specialist
gpdchargepermits@gpdgroup.com
614-588-8951

Statement of Proposal

Tesla, Inc. (Tesla) is requesting an pre-application reiew for the installation of an electric vehicle charging station on land zoned as Community Commercial (C-2). The use is in conformance with all required standards and criteria of the local code. This project will not have an adverse impact on the surrounding area as detailed in the below.



At A Glance: Albuquerque, NM Supercharger Installation

Location	5151 Journal Center Blvd NE, Albuquerque, NM 87109
Land Owner	Titan Journal Center Hotel LLC
Utility Service Territory	PNM
# of Dedicated Charging Stalls	8
# of Enabled Charging Stalls	0

Existing Conditions

Location and Access

Located in the parking lot for Courtyard by Marriott Albuquerque off Journal Center Boulevard NE, this project involves the installation of a new charging station that will serve the Tesla community traveling along Interstate 25 near Albuquerque, NM. The site is located within the Zone NR-BP. The project address is 5151 Journal Center Blvd NE. The primary access point to the site is the entrance drives off Lang Ave NE.

Property Owner

Titan Journal Center Hotel LLC

Zoning

All parcels associated with the Project are zoned as NR-BP Non-Residential – Business Zone by Albuquerque, NM. This use is consistent with the zone's permitted uses as outlined in the Albuquerque, NM Integrated Development Ordinance.

Tesla will comply with all local, state, and federal requirements in the permitting required for this project.

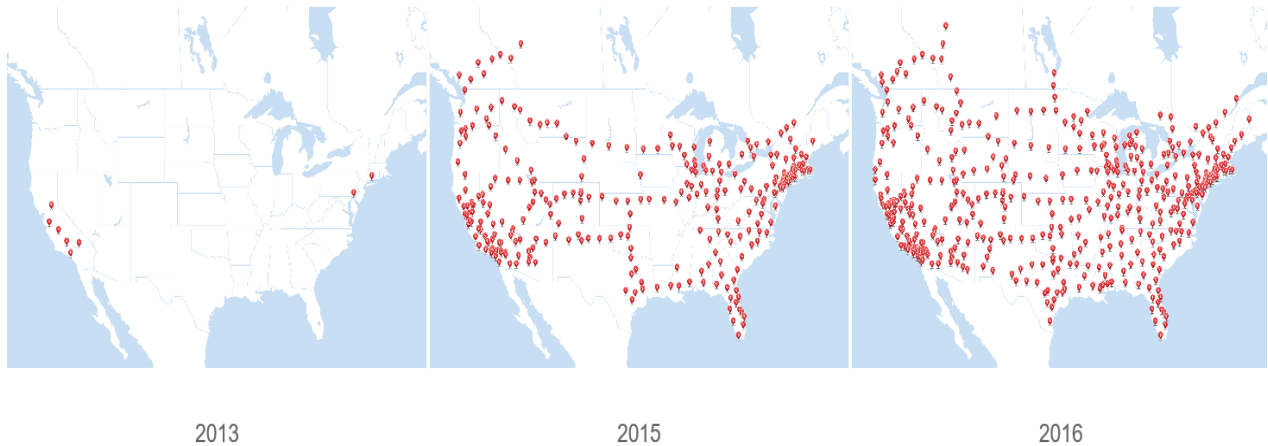
Current Use of Land and Adjacent Areas

The location includes access to a hotel that that will be utilized by Tesla owners. This area offers an excellent location for Tesla's supercharging infrastructure with access to major highways. This project will result in a premium charging experience for customers as well as help Albuquerque pave the way for the development of electric vehicle charging infrastructure in New Mexico.

Supercharger Basics

The Supercharger network is our answer to long distance electric vehicle travel. Superchargers enable travel to popular destinations and charge Model S, Model 3, Model Y and Model X in minutes, giving owners the confidence to travel near or far. Tesla Superchargers are 480-volt fast-charging stations built to allow quick charging (45-90 minutes) for Tesla vehicles. This type of charging infrastructure allows for longer trips for Tesla owners. As electric vehicles become more popular amongst drivers, there has been an increased demand for charging infrastructure.

SUPERCHARGER NETWORK | NORTH AMERICA



Project Overview

This is an ideal location for Supercharger given its proximity to Interstate 25. Given the location, this will benefit long-distance and local travel to and from this region. This site will run 24 hours a day/7 day a week.

When exploring potential Supercharger locations, Tesla searches for locations that offer amenities matching the needs of our owners and their expected dwell-time. The goal is to provide a safe and enjoyable environment with utility infrastructure sufficient to accommodate the required loads of the station.

Location

Within the parking lot, Tesla has specifically chosen stalls that are to be considered less-prime parking stalls as they are further from the facilities that serve this area. This ensures that the existing clientele base does not experience any adverse impacts from the installation while also reducing the likelihood of non-electric vehicles parking in the Tesla Supercharger stalls. Tesla has worked with the land owner to find a location that is best for the existing site and will still accommodate a premium charging experience for electric vehicle owners.

Interconnection

The Project is located in PNM service territory. The electricity required for this project will be supplied from a project specific transformer as shown in the site design. To accommodate 8 Tesla charging stations,

Tesla will install 2 V3 Supercharging Cabinets and 8 Supercharging Posts. Electrical details for the charging units can be found in the provided electrical plans. The installation will also include a utility transformer.

Justification

IDO 14-16-6-4(Z)(1)(a) Minor Amendments

The Planning Director may grant minor amendments that meet all of the following requirements.

1. The existing site development plan specifies the requirements in place at the time of approval, and the requested change still meets the original requirements.

The Tesla Supercharger construction plans, provided with the submittal will be sent over will not be altered in any way other than the ways that the jurisdiction requests. All the requirements needed are clearly laid out.

2. The requested change is within the thresholds for minor amendments established in Table 6-4-4, cumulative of prior deviations or minor amendments.

The requested change is within the guidelines that are set in Table 6-4-4.

3. The requested change does not require major public infrastructure or significant changes to access or circulation patterns on the site, which would warrant additional review by the original decision-making body.

This project is being coordinated with PNM and will include the installation (1) utility transformer with integrated CT cabinet, (1) utility meter and (2) 600A service entrance disconnect enclosures. The only public utility needed to support this project is electricity provided through PNM. This will not cause any significant changes and will not require major public infrastructure. This proposal is located within the exterior of the parking lot along the Northwestern property line and will have no adverse impacts on surrounding properties. The surrounding properties designations are included below:

1. N of subject site: Zoning Designation: NR-BP
2. S of subject site: Zoning Designation: NR-BP
3. E of subject site: Interstate 25
4. W of subject site: Zoning Designation: NR-BP

4. No deviations, Variances, or Waivers shall be granted for minor amendments.

No deviation, variance, or waiver is needed for the proposed permit.

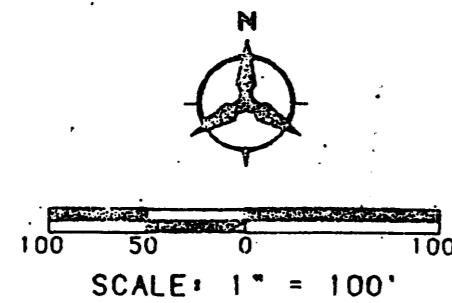
94C-420(2)

94C-420

94146690 PLAT OF
TRACTS 2A-2A-1, 2A-2A-2 & 2A-2A-3
JOURNAL CENTER
ALBUQUERQUE, NEW MEXICO

SEPTEMBER, 1994

State of New Mexico
County of Bernalillo
This instrument was filed for record on
329 DEC 19 1994
Recorded in Vol. 94C
of records of said County Filed 12/19/94
Clark & Recorder
Deputy Clerk



NOTE

Pursuant to Section 7 of the City of Albuquerque, New Mexico subdivision ordinance, a variance or waiver from certain subdivision requirements has been granted by the City and the Albuquerque Metropolitan Area Flood Control Authority in connection with this plat.

Future subdivision of lands within this plat, zoning site development plan approval and development permits may be conditioned upon dedication of right-of-way and easements and/or upon infrastructure improvements by the owner for water, sanitary sewer, streets, drainage, grading and parks in accordance with current regulations, ordinances and policies in effect at the time for any specific proposal.

The City (and AMFCA with reference to drainage) may require and/or permit easements to be added, modified or removed when future plat and/or site development plans are approved.

By its approval, the City makes no representation or warranty as to availability of utilities, or final approval of all requirements including that not limited to the following items:

1. Water and sanitary sewer availability.
2. Future street dedications and/or improvements.
3. Park and open space requirements.
4. Drainage requirements and/or improvements.
5. Erosion, filling or grading requirements.

Any person intending development of lands within this subdivision is cautioned to investigate the status of these items.

At such time as all such conditions have been satisfactorily met, the City Engineer shall approve a recordable document, reserving such conditions from all or from a portion of the area within the subject subdivision.

LEGEND

□	FOUND REBAR AND SURVEY CAP STAMPED "PE & LS 2455"
○	NMSHD BRASS CAP SET IN CONCRETE
●	SET 5/8" REBAR WITH SURVEY CAP STAMPED "WEAVER LS 6544"
▲	CITY OF ALBUQUERQUE CONTROL MONUMENT
—	CENTERLINE MONUMENT
---	BOUNDARY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT LINE
---	NEW UTILITY EASEMENT

TANGENT DATA

NUMBER	BEARING	DISTANCE
T1	N00°23'30"E	80.00
T2	N88°28'12"E	1.80
T3	N47°53'40"W	72.08
T4	N46°19'40"W	72.03
T5	N03°38'12"W	90.31
T6	N03°18'35"W	61.56
T7	N11°34'20"E	21.43
T8	N32°29'23"W	56.54

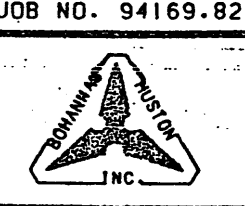
CURVE DATA

NUMBER	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	TANGENT
C1	47.13	30.00	90°00'00"	42.43	S55°43'37"W	30.00
C2	517.39	1143.00	25°56'07"	512.98	S87°45'34"W	263.20
C3	44.69	30.00	85°20'36"	40.67	N62°32'12"W	27.66
C4	459.81	943.00	27°56'15"	455.27	N33°50'02"W	234.57
C5	37.51	25.00	85°58'18"	34.09	N04°49'00"W	23.30
C6	799.16	1212.05	37°46'39"	784.76	N19°16'49"E	414.71
C7	39.27	25.00	90°00'00"	35.36	N45°23'30"E	25.00
C8	105.29	1143.00	05°16'41"	105.25	N81°54'43"W	52.68
C9	58.49	1143.00	02°55'55"	58.48	N86°01'01"W	29.25
C10	58.49	1143.00	02°55'55"	58.48	N88°56'56"W	29.25
C11	295.12	1143.00	14°47'36"	294.30	S82°11'18"W	148.38
C12	361.47	1212.05	17°05'14"	360.13	N29°37'32"E	182.08
C13	58.57	1212.05	02°46'08"	58.57	N19°41'51"E	29.29
C14	58.57	1212.05	02°46'08"	58.57	N16°55'43"E	29.29
C15	320.54	1212.05	15°09'10"	319.61	N07°58'05"E	161.21
C16	150.00	400.00	21°29'09"	149.12	S04°13'33"E	75.89
C17	500.65	2411.90	11°53'35"	499.75	S24°54'55"E	251.23
C18	285.01	400.00	40°49'29"	279.02	S51°16'28"E	148.88
C19	45.67	30.00	87°13'52"	41.39	N64°41'51"E	28.58
C20	263.64	370.00	40°49'29"	258.09	S51°16'28"E	137.69
C21	494.42	2381.90	11°53'35"	493.54	S24°54'55"E	248.10
C22	138.75	370.00	21°29'09"	137.94	S08°13'33"E	70.20
C23	45.59	30.00	87°04'05"	41.33	S46°03'04"W	28.50
C24	45.59	30.00	87°04'05"	41.33	N41°01'01"W	28.50
C25	161.25	430.00	21°29'09"	160.31	N08°13'33"E	81.58
C26	506.88	2441.90	11°53'35"	505.97	N24°54'55"E	254.35
C27	306.39	430.00	40°49'29"	298.95	N51°16'28"E	160.02
C28	45.67	30.00	87°13'52"	41.39	N28°04'17"W	28.58
C29	271.53	2441.90	08°22'16"	271.39	N27°40'35"W	135.90
C30	235.35	2441.90	05°31'20"	235.26	N21°43'48"W	117.77
C31	279.35	757.00	21°08'37"	277.77	N79°51'04"E	141.28
C32	11.82	30.00	22°33'55"	11.74	N31°08'52"W	5.99
C33	80.21	958.66	04°47'38"	80.19	N21°34'14"W	40.13
C34	71.75	506.21	08°07'17"	71.69	N21°33'27"W	35.94
C35	180.72	384.67	26°55'05"	179.07	N32°43'43"W	92.06
C36	41.08	23.94	58°19'54"	36.22	N02°48'01"E	27.70
C37	72.14	406.48	10°10'04"	72.04	N43°13'25"E	36.16
C38	72.35	412.94	10°12'19"	72.26	N44°14'37"E	36.27
C39	72.35	366.37	11°17'55"	72.13	N32°09'12"E	36.24
C40	35.58	248.02	08°13'14"	35.55	N29°44'42"E	17.82
C41	107.61	2685.68	02°17'45"	107.60	N37°14'54"E	53.81
C42	216.19	1133.60	10°55'37"	215.86	N33°04'03"E	108.42
C43	108.48	280.01	22°11'46"	107.80	N17°22'40"E	54.93
C44	107.43	726.30	08°28'31"	107.34	N17°18'33"E	53.82
C45	144.13	1171.91	07°02'48"	144.04	N15°47'11"E	72.16
C46	108.38	536.45	11°34'32"	108.19	N05°30'18"E	54.37
C47	13.70	25.00	31°23'48"	13.53	N16°05'24"E	7.03
C48	2.18	30.00	04°09'51"	2.18	S81°21'18"E	1.09

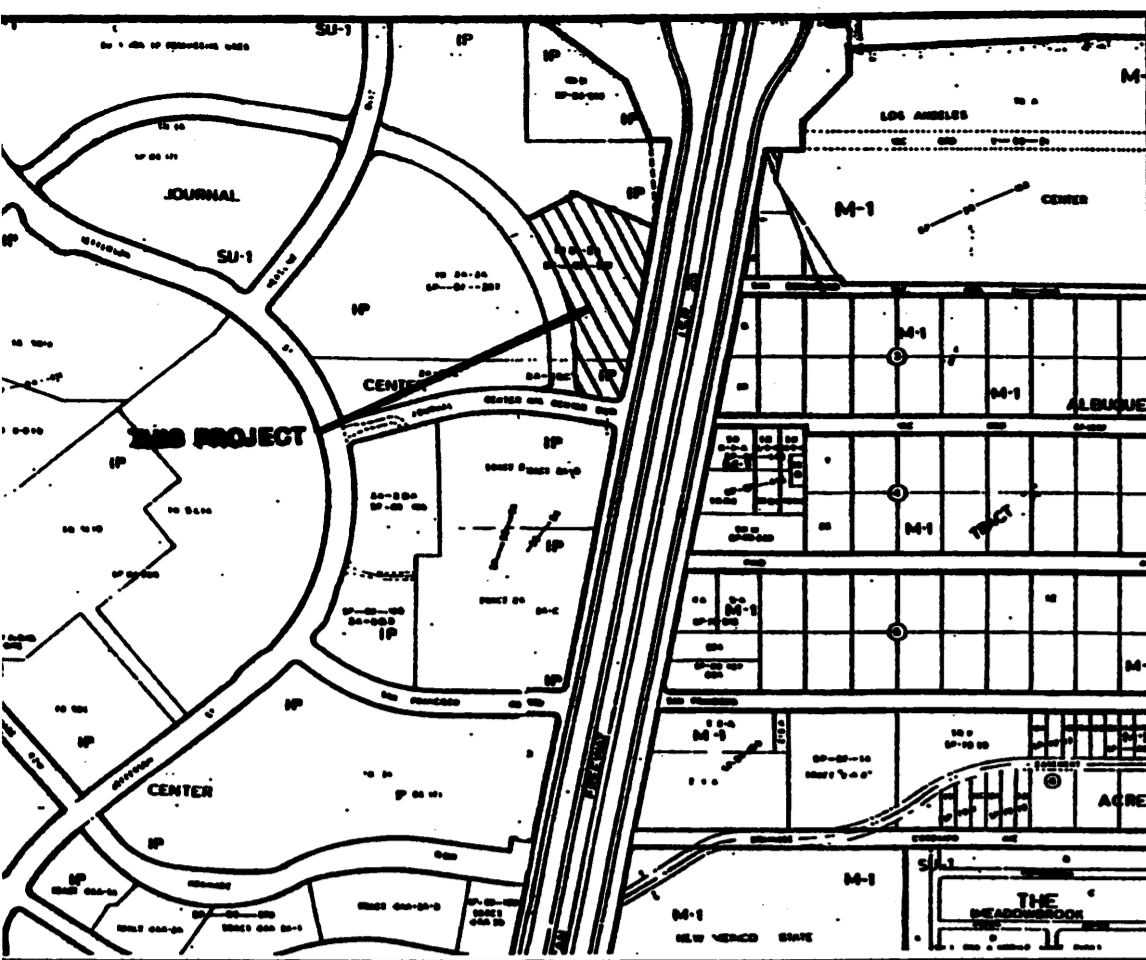
NOTE: CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT SELECTED CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS AND STREET INTERSECTIONS PRIOR TO ACCEPTANCE OF SUBDIVISION STREET IMPROVEMENTS AND WILL CONSIST OF FOUR-INCH (4") ALUMINUM CAP (WITH MAGNET ATTACHED) STAMPED "CITY OF ALBUQUERQUE". "CENTERLINE MONUMENT". "DO NOT DISTURB". "P.L.S. NO. 6544".

NMSHD Brass Tablet stamped "1-25-14, 1969"
Geographic Position (NAD 1927)
N 393.828.55 Y 1516.526.81
Ground-to-Grid Factor = 0.99966298
DOC 00°11'35"
Elevation = 5196.73

SHEET 2 OF 2 SHEETS



LS9417380JSHEET2.GRP



VICINITY MAP

ZONE ATLAS
D-17 & D-18

SITE DATA

ARCHITECT/DEVELOPER: OCEANSIDE PROPERTIES INC.
1755 N. CONGRESS AVENUE
BOYNTON BEACH, FLORIDA 33426

BUILDING LOCATION/
LEGAL DESCRIPTION: TRACT 2A-2A-3,
JOURNAL CENTER BUSINESS PARK

EXISTING ZONING: JP

ZONE MAP: D-17 & D-18

BUILDING USE: HOTEL/CONVENTION FACILITIES (PROPOSED)
RESTAURANT (DETACHED) (FUTURE)

SITE: 6.15 ACRES (267,900 SQ. FT.)

LANDSCAPING: REQUIRED = 32,046 SQ. FT.
PROVIDED = 97,661 SQ. FT.

PARKING/DRIVES: 115,982 SQ. FT.

BUILDING FOOTPRINT: 46,084 SQ. FT.

PARKING: AREA OF SITE
LOT COVERAGE
PARKING REQUIREMENTS

150 GUEST ROOMS @ 1 SPACE/ROOM
150 SEAT BANQUET ROOM @ 1 SPACE/4 SEATS
1600 SQ. FT. BOARD ROOMS @ 1/200 SQ. FT.
182 SEAT RESTAURANT & LOUNGE @ 1 SPACE/4 SEATS
1600 SQ. FT. GROUND OFFICE & BACK OF HOUSE/
GUEST SUPPORT SPACE @ 1 SPACE/200 SQ. FT.
795 SQ. FT. UPPER FLOOR GUEST SUPPORT SPACE
@ 1 SPACE/300 SQ. FT.

150 SPACES
39 SPACES
6 SPACES
30 SPACES
8 SPACES
3 SPACES

200 SEAT RESTAURANT @ 1 SPACE/4 SEATS

50 SPACES (FUTURE)

TOTAL PARKING REQUIRED (HOTEL ONLY)

237 SPACES

TOTAL PARKING PROVIDED (HOTEL ONLY)

280 SPACES

HC PARKING SPACES REQUIRED (HOTEL ONLY)

8 SPACES

HC PARKING SPACES PROVIDED (HOTEL ONLY)

8 SPACES

SMALL CAR PARKING SPACES PROVIDED

41 SPACES

BUILDING DATA:

GROUND FLOOR BUILDING AREA INCLUDING BALCONIES,
COVERED WALKS, ENTRIES, ETC.: 46,084 SQ. FT.
SECOND FLOOR: 23,269 SQ. FT.
THIRD FLOOR: 12,461 SQ. FT.
FOURTH FLOOR: 12,261 SQ. FT.

TOTAL

94,275 SQ. FT.

SMALL CAR - FULL SIZE RATIO = 17.3
13.7%

PROPERTY LINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.12'	30.00'	42.43'	S55°43'37"W	90°00'00"
C2	1143.00'	105.29'	52.68'	105.25'	N81°54'43"W	05°16'41"
C3	30.00'	43.59'	28.50'	41.33'	N41°01'01"W	07°04'05"
C4	430.00'	181.25'	81.58'	180.21'	S08°13'33"E	21°29'09"
C5	2441.90'	235.35'	117.77'	235.26'	N21°53'48"E	05°31'20"

CURRENT LEGAL DESCRIPTION:

A PORTION OF TRACTS 2A-2A
& 2A-2B, JOURNAL CENTER

PROPOSED LEGAL DESCRIPTION:

TRACTS 2A-2A-3,
JOURNAL CENTER

NORTH SOUTH



1755 NORTH CONGRESS AVE.
BOYNTON BEACH, FL. 33426
(407) 364-8900

REVISIONS NOV. 15, 1995 JO

1. NEW BUILDING FOOTPRINT.
2. ADDED SIDEWALKS.
3. MOVED H.C. RAMP & CROSSWALK TO
MATCH NEW BUILDING FOOTPRINT.
4. ADDED GENERAL NOTE NO. 5.
5. REVISED ALIGNMENT OF SIDEWALK.



COURTYARD by MARRIOTT

Albuquerque, New Mexico

DRAWN BY:

CHECKED BY:

DIMENSIONED SITE PLAN

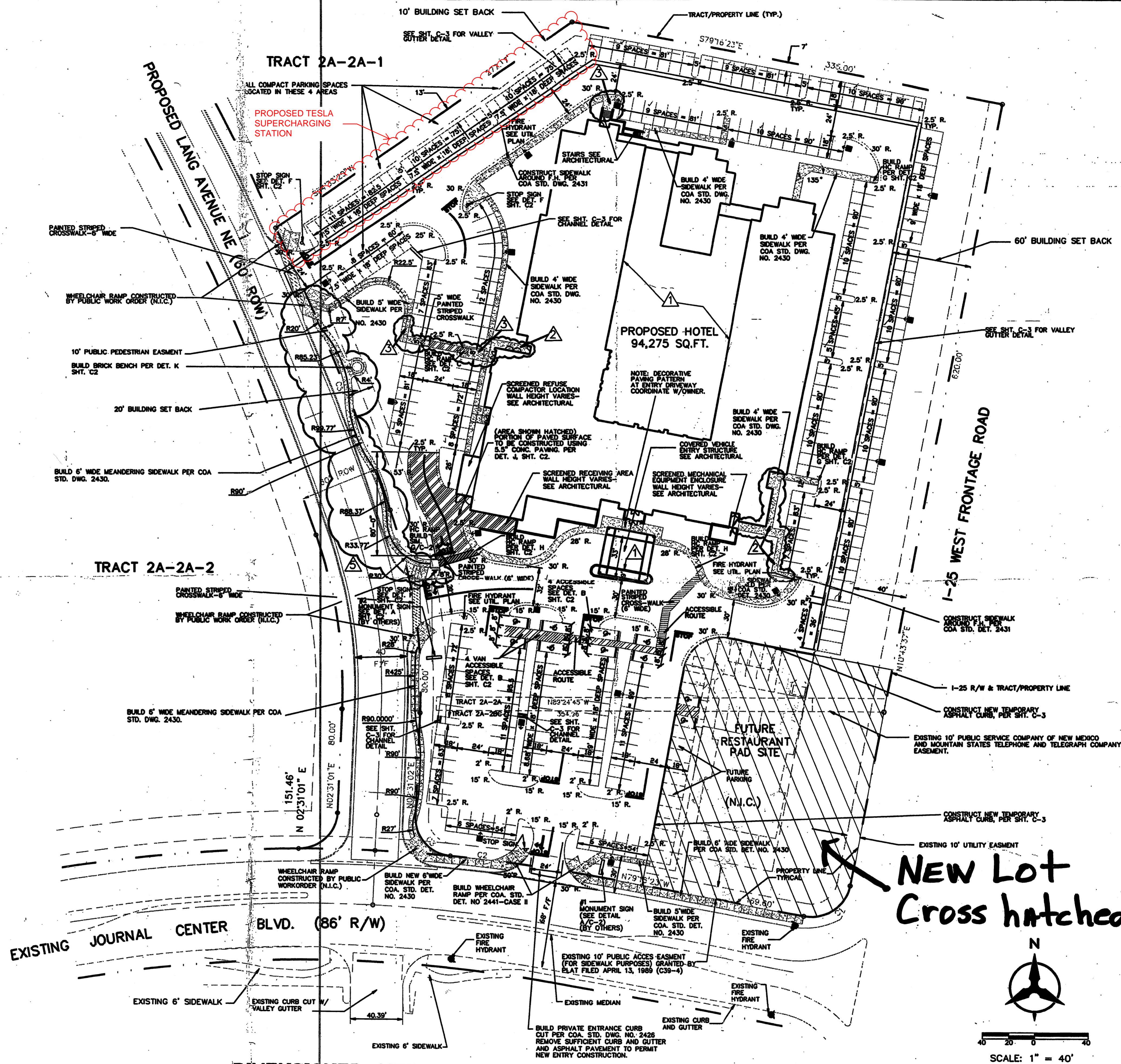
ISSUED FOR:
DRB REVIEW

C-1

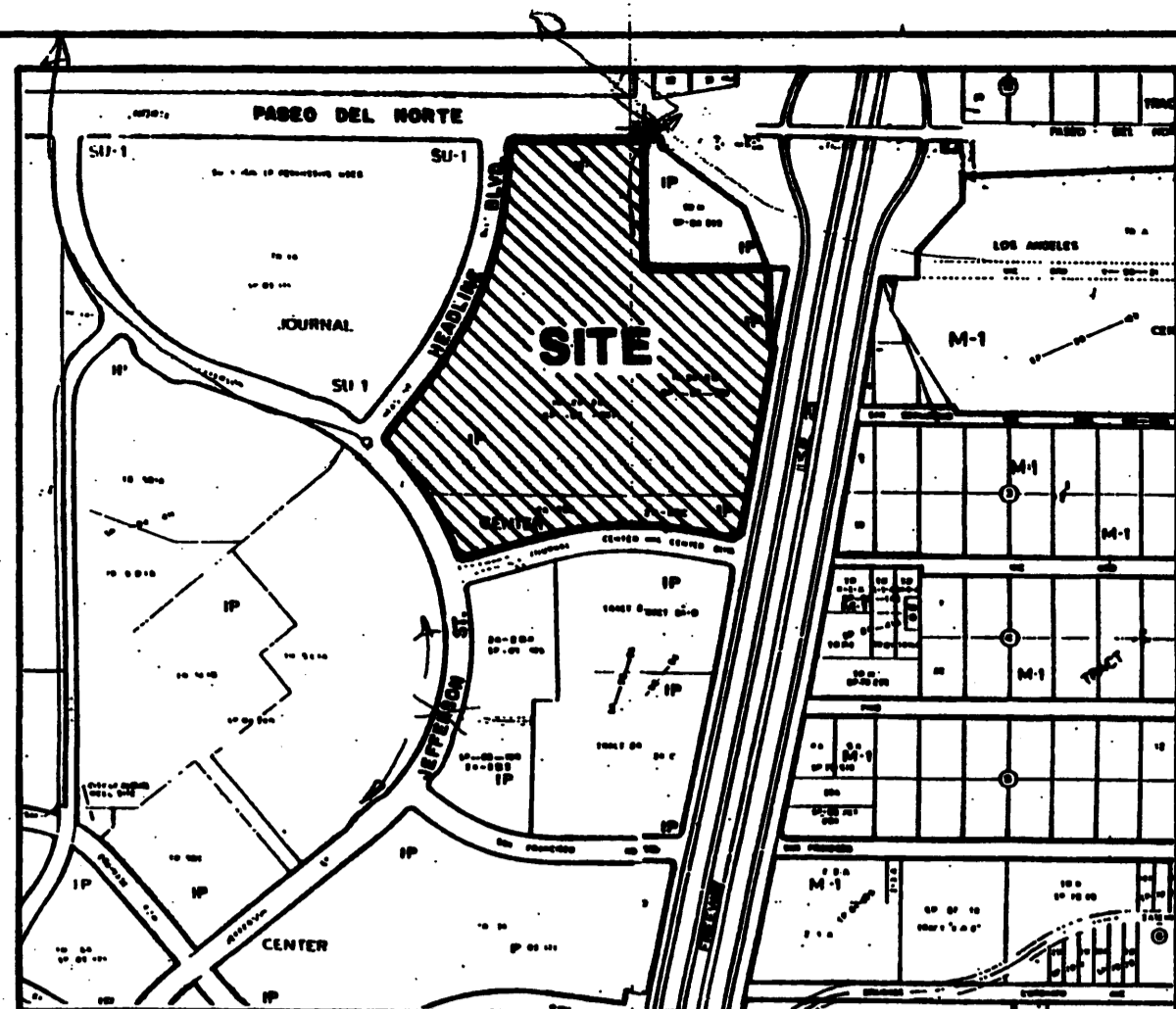
DATE: 05/03/95

UPDATED BY ROMAN/CDP 111795

BHI JOB NO. C9416844
FILENAME: DIMSITE.DWG



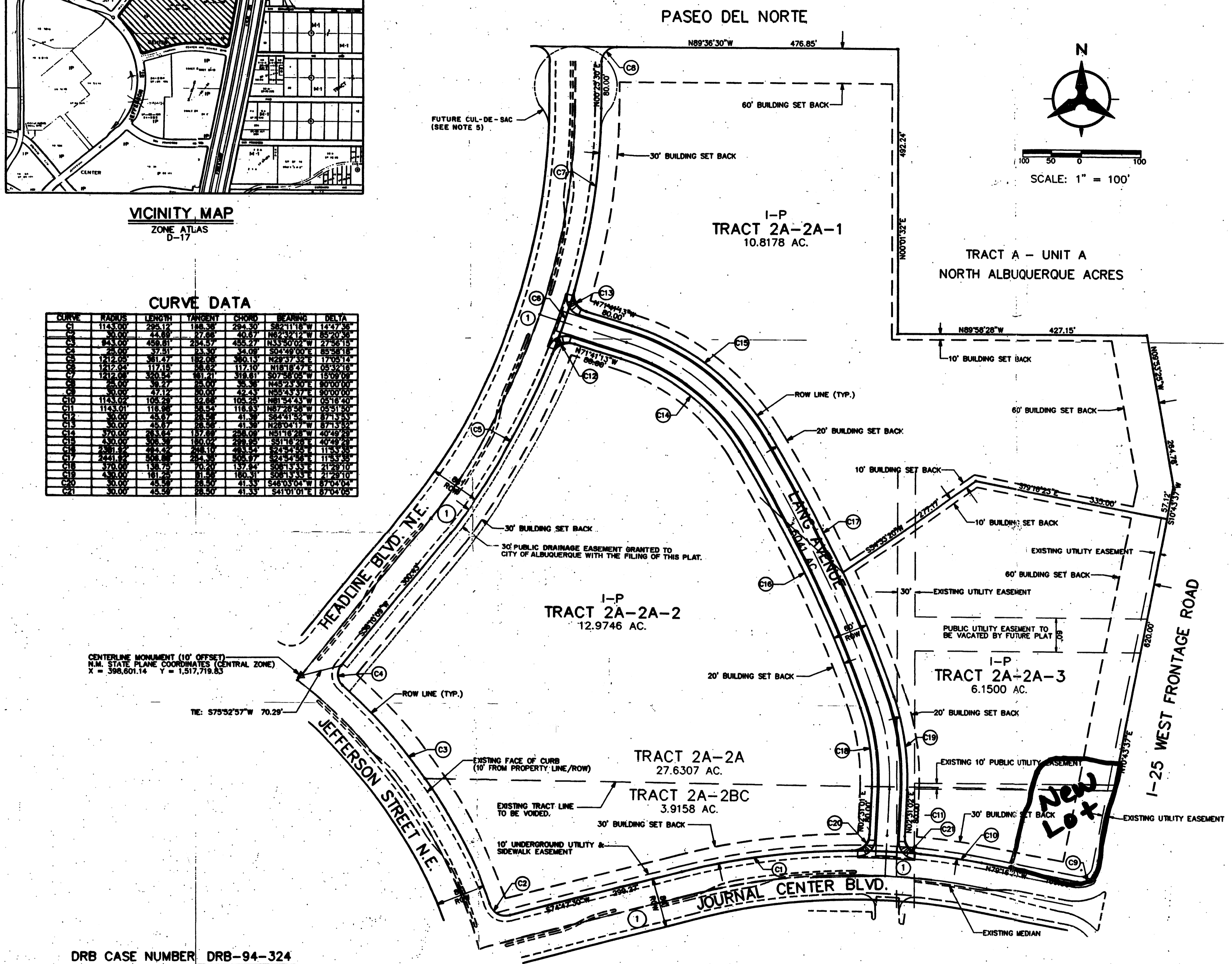
DIMENSIONED SITE PLAN



VICINITY MAP
ZONE ATLAS
D-17

CURVE DATA

CURVE	RADIUS	LENGTH	ARC	CHORD	BEARING	DELTA
C1	1143.00	255.12	188.36	293.30	S85°11'18"W	14°47'36"
C2	800.00	488.87	277.89	426.57	N82°32'12"W	85°20'48"
C3	1212.00	361.07	182.26	300.15	N23°37'25"E	17°05'14"
C4	1212.00	361.07	182.26	300.15	S10°58'00"W	17°05'14"
C5	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C6	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C7	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C8	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C9	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C10	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C11	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C12	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C13	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C14	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C15	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C16	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C17	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C18	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C19	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C20	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C21	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C22	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C23	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C24	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C25	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C26	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C27	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C28	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C29	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"
C30	1143.00	255.12	188.36	293.30	N85°23'30"E	80°00'00"



KEYED NOTES

- ① EXISTING MEDIAN OPENING. FULL INGRESS/EGRESS AVAILABLE TO TRACT AT THIS POINT.

TRACTS 2A-2A-1, 2A-2A-2 and 2A-2A-3, JOURNAL CENTER
SITE PLAN FOR SUBDIVISION STANDARDS

1. THIS PROPERTY IS CURRENTLY ZONED I-P (INDUSTRIAL PARK). LAND USES WILL BE THOSE GOVERNED BY SITE DEVELOPMENT PLANS APPROVED BY THE DEVELOPMENT REVIEW BOARD PURSUANT TO THE REQUIREMENTS OF THE COMPREHENSIVE CITY ZONING CODE, THE EPC APPROVED SITE DEVELOPMENT PLAN FOR THE JOURNAL CENTER, AND THE STANDARDS, COVENANTS AND RESTRICTIONS OF JOURNAL CENTER BUSINESS PARK, WHICHEVER IS MORE STRINGENT.
2. SPECIFIC DESIGN PARAMETERS, SUCH AS BUILDING HEIGHT, SETBACKS, SPECIAL LANDSCAPE AREAS OF COLORS, PLANTINGS, AND MATERIALS SHALL BE DETERMINED BY THE APPROVED SITE-SPECIFIC SITE DEVELOPMENT PLANS PREPARED AT THE TIME EACH TRACT IS PROPOSED FOR DEVELOPMENT. HOWEVER, ALL DESIGNS SHALL ADHERE TO THE GUIDELINES SET FORTH IN THIS SITE PLAN FOR SUBDIVISION DOCUMENT.
3. BUILDING HEIGHT. STRUCTURE HEIGHT AND WIDTH SHALL FALL WITHIN A 45° ANGLE PLANE DRAWN FROM THE HORIZONTAL AT THE MEAN GRADE ALONG EACH BOUNDARY OF THE PREMISES.
4. MINIMUM BUILDING SETBACKS SHALL BE AS PERMITTED WITHIN THE COMPREHENSIVE CITY ZONING CODE (ZONING CODE) FOR I-P ZONING, OR THE FOLLOWING (WHICHEVER IS MORE STRINGENT):
FRONT YARD SETBACK:
FROM ARTERIAL STREET (I.E., 86' R/W), 40' FROM CURB FACE (30' FROM R/W LINE)
FROM LOCAL/COMMERCIAL STREET, 30' FROM CURB FACE (20' FROM R/W)
FROM I-25 FRONTAGE ROAD, 60' FROM R/W
FROM PASEO DEL NORTE, 60' FROM R/W
SIDE YARD SETBACK:
10', EXCEPT THAT CANTILEVERED ROOFS AND SUNSCREENS MAY PROJECT 3' INTO THE SETBACK AREA. IN THE CASE OF A CORNER LOT, FRONT YARD SETBACKS APPLY, EXCEPT THAT CANTILEVER ROOFS AND SUNSCREENS MAY PROJECT 6' INTO THE SETBACK AREA.
REAR YARD SETBACK:
10', EXCEPT THAT CANTILEVERED ROOFS AND SUNSCREENS MAY PROJECT 3' INTO THE SETBACK AREA.
5. FUTURE SITE DEVELOPMENT PLANS FOR TRACT 2A-2A-1 WILL REQUIRE DEDICATION OF ALL OR PART OF A CUL-DE-SAC FOR HEADLINE BLVD. UNLESS ALTERNATIVES ARE APPROVED BY THE TRAFFIC ENGINEER.
6. FUTURE SITE DEVELOPMENT PLANS MUST PROVIDE FOR PEDESTIAN ACCESS TO AND ALONG THE FUTURE TRAIL ADJACENT TO PASEO DEL NORTE AS DESCRIBED IN THE TRAILS & BIKEWAYS FACILITY PLAN.
7. PARKING SHALL BE CONSISTENT WITH THE ZONING CODE (SECTION 40.A) OR THE JOURNAL CENTER STANDARDS, COVENANTS AND RESTRICTIONS, WHICHEVER IS MORE STRINGENT.
8. CROSS-LOT EASEMENTS FOR DRAINAGE AND OTHER PRIVATE UTILITIES SHALL BE PROVIDED BY PLAT, OR OTHER APPROVED DOCUMENT, AS NECESSARY.
9. LANDSCAPE COVERAGE SHALL CONFORM TO LANDSCAPING REQUIREMENTS OF THE I-P ZONING CODE, THE JOURNAL CENTER MASTER PLAN AND/OR THE JOURNAL CENTER STANDARDS, COVENANTS AND RESTRICTIONS, WHICHEVER IS MORE STRINGENT.
10. RAIL SPURS ARE NOT PLANNED FOR, NOR DO THEY CURRENTLY EXIST ON OR IMMEDIATELY ADJACENT TO THIS PROPERTY.
11. A MASTER DRAINAGE PLAN FOR THE OVERALL SITE (ALL THREE PROPOSED TRACTS, AND THE PROPOSED ROADWAY) WILL BE PREPARED AND PROCESSED FOR REVIEW THROUGH THE CITY OF ALBUQUERQUE'S PUBLIC WORKS/HYDROLOGY DIVISION. THIS PLAN WILL ADDRESS IN A DETAILED MANNER THE DRAINAGE MANAGEMENT PLAN FOR THIS PROPERTY. DETAILED SITE SPECIFIC GRADING AND DRAINAGE PLANS FOR FUTURE INDIVIDUAL TRACTS WILL BE SUBMITTED ON A CASE BY CASE BASIS IN ACCORDANCE WITH THE MASTER DRAINAGE PLAN.
12. CURB CUTS FROM EACH TRACT ONTO THE EXISTING JEFFERSON STREET, JOURNAL CENTER BOULEVARD, AND HEADLINE BOULEVARD RIGHT-OF-WAYS WILL CONFORM TO DEVELOPMENT PROCESS MANUAL (DPM) SPACING REQUIREMENTS FOR DRIVEWAYS.
13. THE CURRENT LEGAL DESCRIPTIONS OF THIS SITE ARE TRACTS 2A-2A and 2A-2BC, JOURNAL CENTER. TRACTS IDENTIFIED ON THIS PLAN, TRACTS 2A-2A-1, 2A-2A-2 and 2A-2A-3 ARE DESIGNATIONS FOR TRACTS TO BE USED IN THE FORTHCOMING RE-PLAT OF THE PROPERTIES (FOLLOWING APPROVAL OF THIS SITE PLAN FOR SUBDIVISION).
14. THE 60' WIDE PUBLIC ROAD SHALL BE DEDICATED FOR VEHICULAR AND PEDESTRIAN USE AND THE BENEFIT OF TRACTS 2A-2A-1, 2A-2A-2 and 2A-2A-3. WHILE THE PROPOSED ROAD MAY BE CONSTRUCTED IN ADVANCE, SIDEWALK CONSTRUCTION SHALL BE DEFERRED UNTIL SITE-SPECIFIC DEVELOPMENT OCCURS.
15. PRIOR TO DEVELOPMENT, CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO THESE LOTS, AS SHOWN ON THE SITE PLAN, MUST BE VERIFIED AND COORDINATED WITH THE PUBLIC WORKS DEPARTMENT, CITY OF ALBUQUERQUE, VIA REQUEST FOR WATER AND SANITARY SEWER AVAILABILITY STATEMENT.
16. SIGNS SHALL CONFORM TO THE COMPREHENSIVE ZONING CODE, OR JOURNAL CENTER STANDARDS, COVENANTS AND RESTRICTIONS, WHICHEVER IS MORE STRINGENT.
17. VEHICULAR AND PEDESTRIAN CIRCULATION. GENERALLY, TRACTS 2A-2A-1, 2A-2A-2 and 2A-2A-3 SHALL HAVE ACCESS TO THE PUBLIC RIGHTS-OF-WAY OF JOURNAL CENTER BOULEVARD AND JEFFERSON STREET VIA THE PROPOSED PUBLIC ROAD. FULL INBOUND AND OUTBOUND TURNING MOVEMENTS WILL BE PROVIDED FOR THE TRACTS ONLY AT THE INTERSECTION OF THE PROPOSED ROADWAY WITH JOURNAL CENTER STREET AND HEADLINE AVENUE, AND AT EXISTING MEDIAN OPENINGS IN JOURNAL CENTER BOULEVARD AND HEADLINE BOULEVARD. OTHER DIRECT ACCESS/CURB CUTS CAN BE UTILIZED BY THESE TRACTS FOR ACCESS TO JEFFERSON STREET AND JOURNAL CENTER BOULEVARD AND HEADLINE BOULEVARD ON A RIGHT TURN-IN AND RIGHT TURN-OUT BASIS ONLY AND ONLY IN ACCORDANCE WITH THE DPM. THE 40' FACE OF CURB TO FACE OF CURB WIDTH ROADWAY PROPOSED FOR THE 60' WIDE ROW WILL BE A PUBLIC ROAD, CONSTRUCTED TO CITY OF ALBUQUERQUE CONSTRUCTION DESIGN STANDARDS AND REVIEWED BY THE CITY OF ALBUQUERQUE'S DESIGN REVIEW COMMITTEE.
18. VARIANCES TO THE ABOVE STANDARDS MAY BE GRANTED BY THE JOURNAL CENTER ARCHITECTURAL REVIEW COMMITTEE IN ACCORDANCE WITH THE JOURNAL CENTER STANDARDS, COVENANTS AND RESTRICTIONS. VARIANCES SHALL NOT BE INCONSISTENT WITH THE CITY OF ALBUQUERQUE ZONING CODE AND THE JOURNAL CENTER MASTER PLAN. SITE-SPECIFIC SITE DEVELOPMENT PLANS SHALL IDENTIFY ALL GRANTED VARIANCES WHEN REVIEWED BY DRB.
19. NO VEHICULAR CROSS-LOT (RECIPROCAL) ACCESS EASEMENTS ARE PROVIDED BETWEEN TRACTS OF THIS PLAN. A PEDESTRIAN (RECIPROCAL) ACCESS EASEMENT IS PROVIDED ACROSS TRACTS 2A-2A-1 AND 2A-2A-3 FOR ACCESS TO THE FUTURE TRAIL ALONG PASEO DEL NORTE.
20. MAXIMUM BUILDING COVERAGE OF A LOT SHALL BE FIFTY PERCENT (50%). PARKING STRUCTURES SHALL BE CONSIDERED AS BUILDINGS. LOT SIZE SHALL BE AS PROVIDED IN THE I-P ZONING CODE.

DRB CASE NUMBER DRB-94-324

SITE DEVELOPMENT PLAN APPROVAL

THE PLAN IS CONSISTENT WITH THE CONCEPTS OF THE ORIGINAL JOURNAL CENTER SITE PLAN APPROVED BY THE ENVIRONMENTAL PLANNING COMMISSION ON AUGUST 16, 1980 (AX-79-13, Z-79-80-2) AND THE I-P ZONE.
IT CONFORMS WITH THE COMMENTS RENDERED BY THE DEVELOPMENT REVIEW BOARD ON AUGUST 23, 1994, AS REFLECTED IN DRB-94-324.

Paul Clark 12-16-94 *Robert W. Kane* 8-30-94 *Carol Schneider Dymond* 8-30-94
TRANSPORTATION DEVELOPMENT
CITY ENGINEER/AM/CA
SUBMITTED TO PLANNING: AUGUST 16, 1994

DRB-94-324

SITE PLAN
FOR
SUBDIVISION
TRACTS 2A-2A-1, 2A-2A-2, AND 2A-2A-3
JOURNAL CENTER
ALBUQUERQUE N.M. AUGUST 1994

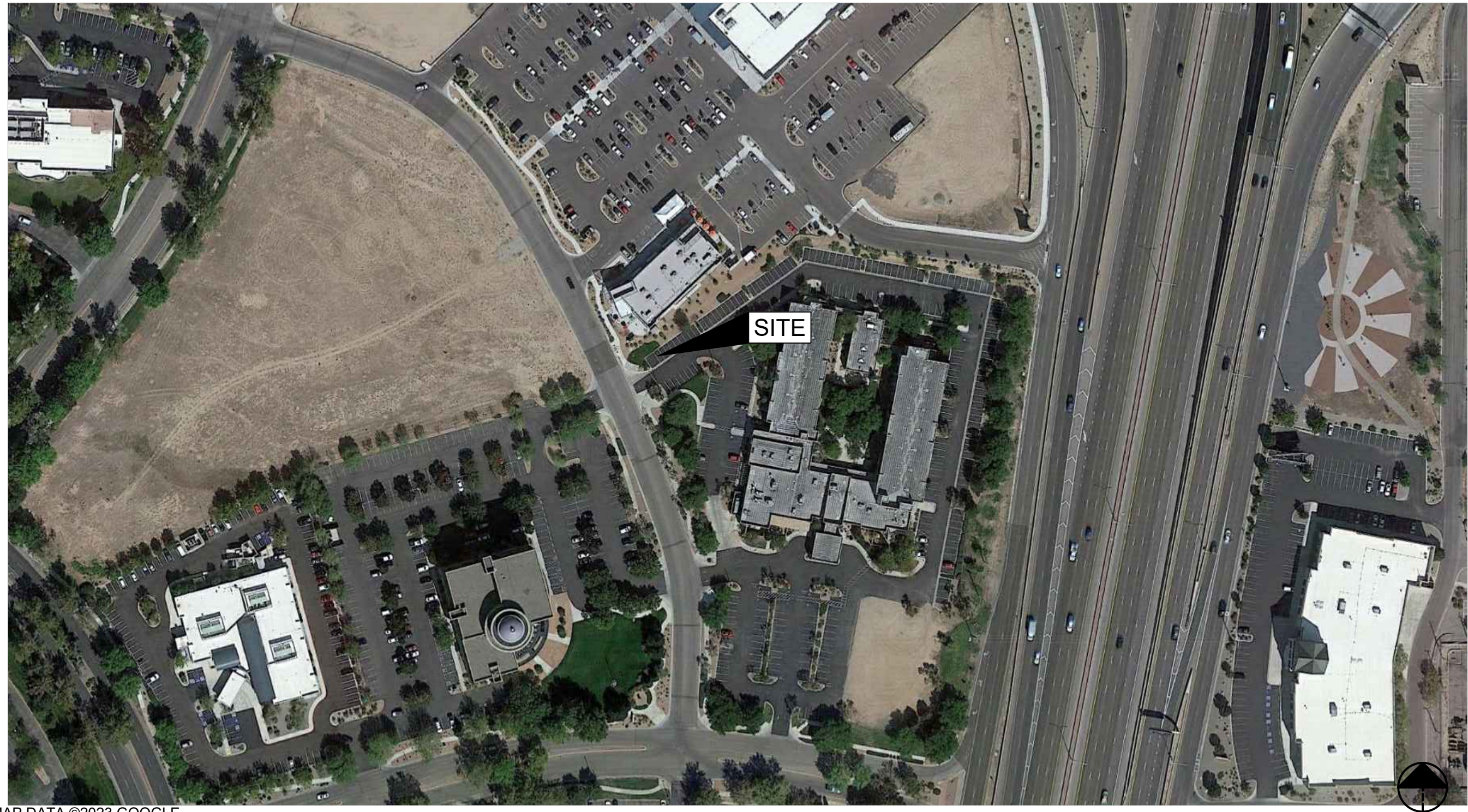


TESLA

SUPERCARGING STATION
5151 JOURNAL CENTER BLVD NE (TESLA STATION)
ALBUQUERQUE, NM 87109
TRT18975

AERIAL MAP

NOTE:
PROPERTY LINE AND RIGHT-OF-WAY
BOUNDARIES ARE SHOWN FOR
REFERENCE ONLY. REFER TO SURVEY
BY OTHERS FOR EXACT LOCATION.



MAP DATA ©2023 GOOGLE

REV.	DATE	DESCRIPTION
A	09.01.22	ISSUED FOR SITE SKETCH REVIEW
B	09.22.22	ISSUED FOR 90% REVIEW
C	10.06.22	SIGNED AND SEALED
1	12.02.22	REVISED PER A/H COMMENTS
2	01.09.22	REVISED PER UTILITY COMMENTS

[illegible]

5151 JOURNAL CENTER
BLVD NE
(TESLA SUPERCHARGER)
TRT18975 - ALBUQUERQUE, NM 87109

TITLE SHEET & PROJECT DATA

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

JOB NO.
2022141.67

T-1

Drawing Name: O:\2022\2022141\67 - TRT 18975 - Albuquerque, NM - North Journal Center.dwg\2022141\67 - Albuquerque, NM
- CD90.dwg
January 6, 2023 1:56 PM - RVineyard

B

A

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ANY OTHER REGULATING AUTHORITIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FROM TESLA OF ANY DISCREPANCIES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE CONTRACTORS SOLE EXPENSE.
- CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO TESLA FOR APPROVAL BEFORE MAKING ANY CHANGES. DEVIATION FROM PLANS BEFORE WRITTEN APPROVAL FROM TESLA PLACES LIABILITY ON THE CONTRACTOR.
- ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, CONTRACTOR SHALL USE BEST CONSTRUCTION PRACTICES.
- ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.
- ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.
- APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.
- NEW PAVEMENT INSTALLED AS PART OF THIS PROJECT SHALL MATCH EXISTING PAVEMENT SECTION. EXISTING PAVEMENT DEPTHS SHALL BE MAINTAINED.
- THE TOPOGRAPHIC SURVEY BY CLARK LAND SURVEYING, INC, DATED 06/18/2022 SHALL BE CONSIDERED PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING EXISTING CONDITION IMPROVEMENTS PER THESE PLANS.
- THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS. DUE TO THE LIMITATIONS IN TECHNOLOGY AND GROUND CONDITIONS, NOT ALL UNDERGROUND UTILITIES ARE ABLE TO BE LOCATED. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
- ALL PROPERTY LINES, RIGHT OF WAYS, CENTERLINES, DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF TESLA PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND FEDERAL, STATE AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 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 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM TESLA PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND APPROVED BY TESLA PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY TESLA PRIOR TO PROCEEDING.
- THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.

- PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES, PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- 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.
- EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING FROM TESLA.
- GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION PER THE TABLE BELOW:

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
1 INCH (25.0 MM)	75 TO 100
3/4 INCH (19.00 MM)	80 TO 100
3/8 INCH (9.5 MM)	35 TO 75
NO. 4 (4.75 MM)	30 TO 60
NO. 30 (0.600 MM)	7 TO 30
NO. 200 (0.75 MM)	3 TO 15
- GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SW OR SW-SM).
- UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTICS 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 CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
- 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 BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.

GENERAL FOUNDATION NOTES

- DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECTION OF FOUNDATION BEARING SURFACES, AND VERIFICATION OF ALLOWABLE BEARING PRESSURES ARE THE TESTING LABORATORY'S RESPONSIBILITY.
- ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL COMPACT SUBGRADE. SEE FROST/NO FROST DESIGN NOTES THIS SHEET.
- FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF UNLESS NOTED OTHERWISE.
- NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.
- STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.
- INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.
- UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GROUNDWATER ASSUMED TO BE BELOW EXCAVATION DEPTH. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION ON SITE, CONTRACTOR SHALL PROVIDE FOR ANY SITE DRAINAGE AND DE-WATERING REQUIRED.
- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES PRIOR TO EXCAVATION. IF NECESSARY, UTILITIES SHALL BE RELOCATED PRIOR TO FOUNDATION INSTALLATION.

CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.
- ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.
- SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INSOFAR AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- ALL CONCRETE UNLESS NOTED OTHERWISE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS: ALL CONCRETE - 4500 PSI. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (± 1%) AIR ENTRAINMENT.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

- WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.
- NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.
- PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.
- PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.
- REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4500 PSI CONCRETE

	OTHER		TOP*	
BAR SIZE	ANCHORAGE	SPLICE	ANCHORAGE	SPLICE
# 3	15	19	19	24
# 4	19	25	25	33
# 5	24	31	31	41
# 6	29	37	37	49

* HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR
- NON-SHRINK GROUT SHALL MEET A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI.

CHARGING CABINET PRE-FABRICATED ASSEMBLY FOUNDATION & ALL CHARGING POST FOUNDATIONS - FROST DESIGN NOTES (BOTTOM OF FOUNDATION ABOVE FROST LEVEL):

- CONCRETE FOUNDATIONS SHOULD BEAR DIRECTLY ON A PROPERLY COMPACTED FREE-DRAINING GRANULAR FILL CONSISTING OF NO. 57 STONE OR AN APPROVED EQUIVALENT.
- GRANULAR FILL SHOULD EXTEND VERTICALLY TO THE MINIMUM RECOMMENDED REGIONAL FROST DEPTH AND Laterally 2/3D FROM THE FOUNDATION PERIMETER (EXCLUDING SIDE OF PERIMETER ADJACENT TO CURB). GRANULAR FILL SHOULD BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED WITH A VIBRATORY COMPACTOR. THE COMPACTION EQUIPMENT SHOULD BE OPERATED OVER THE FULL WIDTH OF THE FOUNDATION UNDERCUT AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES. SEE SHEET T-1 FOR LOCAL FROST DEPTH.
- GEOTEXTILE (FILTER FABRIC) SHOULD BE PLACED BETWEEN THE GRANULAR BACKFILL AND COHESIVE SOILS TO PRECLUDE THE INFILTRATION OF FINES. SPEC AS FOLLOWS:

SEPARATION GEOTEXTILE: WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFINS OR POLYESTERS; WITH ELONGATION LESS THAN 50 PERCENT; COMPLYING WITH AASHTO M 288 AND THE FOLLOWING, MEASURED PER TEST METHODS REFERENCED:
SURVIVABILITY: CLASS 2; AASHTO M 288.
GRAB TENSILE STRENGTH: 247 LBF (1100 N); ASTM D 4632.
SEWN SEAM STRENGTH: 222 LBF (990 N); ASTM D 4632.
TEAR STRENGTH: 90 LBF (400 N); ASTM D 4533.
PUNCTURE STRENGTH: 90 LBF (400 N); ASTM D 4833.
APPARENT OPENING SIZE: NO. 60 (0.250-MM) SIEVE, MAXIMUM; ASTM D 4751.
PERMITTIVITY: 0.02 PER SECOND, MINIMUM; ASTM D 4491.
UV STABILITY: 50 PERCENT AFTER 500 HOURS' EXPOSURE; ASTM D 4355.

CHARGING CABINET PRE-FABRICATED ASSEMBLY FOUNDATION & ALL CHARGING POST FOUNDATIONS - NO FROST DESIGN NOTES (BOTTOM OF FOUNDATION BELOW FROST LEVEL)

- CONCRETE FOUNDATIONS SHOULD BE SUPPORTED ON A 6 INCH COMPACTED LAYER OF APPROVED FREE-DRAINING GRANULAR MATERIAL.
- APPROVED MATERIAL SHOULD BE COMPACTED OVER THE FULL WIDTH OF THE INFILL AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.

STRUCTURAL STEEL

MATERIAL PROPERTIES:

PLATE: ASTM A36 UNO
PIPE: ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI)
TUBE: ASTM A1085 GRADE A (Fy = 50 KSI)

- DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2010 AISC (360-10) SPECIFICATIONS.
- ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS.
- FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.
- ALL EXPOSED STRUCTURAL STEEL, ANCHOR RODS AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 Gr 55 WITH HEAVY HEXAGONAL NUT.
- SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.

TRAFFIC CONTROL NOTES

- DURING THE CONSTRUCTION PERIOD; SIDEWALKS, SHOULDERS, TRAVEL LANE(S), OR STREETS MAY HAVE TO BE TEMPORARILY CLOSED OR RESTRICTED FOR THE UNLOADING / LOADING OF EQUIPMENT OR AS A RESULT OF CONSTRUCTION ACTIVITIES THEMSELVES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DIRECTLY WITH THE LOCAL GOVERNING AUTHORITIES ON ANY SUCH CLOSURES AND MUST OBTAIN WRITTEN PERMISSION FROM THE APPROPRIATE AUTHORITIES PRIOR TO IMPLEMENTING SUCH CLOSURES OR RESTRICTIONS. ANY CLOSURE OR RESTRICTION MUST COMPLY WITH THE STATE MANUAL OF UNIFORM CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION AND REVISION), AND WITH ANY AND ALL ADDITIONAL APPLICABLE CITY, VILLAGE, OR COUNTY REQUIREMENTS. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL TRAFFIC CONTROL / MOT PLAN TO THE LOCAL GOVERNING AUTHORITIES IF REQUESTED. ALL REQUIRED CONSTRUCTION TRAFFIC MAINTENANCE DEVICES SHALL BE PROVIDED, ERECTED AND MAINTAINED, AND ULTIMATELY REMOVED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES AND INTERSECTING STREET AT ALL TIMES DURING THE CONSTRUCTION OF THE IMPROVEMENTS ANTICIPATED. DRIVEWAYS MUST BE MAINTAINED AND ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORK DAY. PER THE STATE MUTCD AND OTHER APPLICABLE APPROPRIATE GOVERNING REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, CONES, SIGNAGE, BARRELS, MESSAGE BOARDS, LIGHTING, FLAGMEN, LAW ENFORCEMENT OFFICERS, ETC. TO AVOID DAMAGE AND / OR INJURY TO VEHICLES AND PERSONS TRAVERSING THE CONSTRUCTION AREA.

SPECIAL INSPECTIONS

- TESLA SHALL BE RESPONSIBLE FOR SCHEDULING AND OVERSEEING OF ALL SPECIAL INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. SPECIAL INSPECTIONS MUST BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.

PAVEMENT MARKING NOTES

- ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL.
- MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:
- PAVEMENT MARKINGS PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562 AND D711.
- PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
- APPLY 2 COATS WITHIN THE SAME DAY, UTILIZING STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAYING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

EXISTING SLAB REINFORCEMENT INVESTIGATION/X-RAY

- CONTRACTOR SHALL VERIFY POST TENSIONING AND REINFORCEMENT LOCATION IN EXISTING CONCRETE SLAB PRIOR TO DRILLING.

LANDSCAPE NOTES

- ALL DISTURBED AND PROPOSED LANDSCAPE PLANTING BED AREAS SHALL BE MULCHED WITH 3" GRAVEL MULCH TO MATCH EXISTING CONDITIONS IN SIZE AND COLOR.
- PLANT GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.
- IRRIGATION RELOCATION: CONTRACTOR FIELD VERIFY IF EXISTING IRRIGATION IS PRESENT, DETERMINE POINT OF CONNECTION, SYSTEM PRESSURE, FIXTURE TYPES, AND POTENTIAL FOR EXPANSION. IF FOUND THAT THE EXISTING IRRIGATION SYSTEM IS CAPABLE OF EXPANSION AND REUSE THEN IT SHALL BE MODIFIED TO PROVIDE 100% COVERAGE OF THE LANDSCAPE AREA. IF THE EXISTING IRRIGATION SYSTEM IS NOT CAPABLE OF EXPANSION, CONTRACTOR TO INSTALL A NEW CONTROLLER, BOOSTER PUMP, AND OTHER APPARATUSES NEEDED FOR A COMPLETE IRRIGATION SYSTEM. IRRIGATED AREAS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR FIXTURES BY THE SAME SUPPLIER. CONTRACTOR SHALL ENSURE BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL SPRINKLER FIXTURES, DRIP TUBING, PIPING, VALVES, WIRING AND CONTROLS TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM THAT SHALL COMPLY WITH CITY CODE. PRIOR TO UPDATING THE IRRIGATION SYSTEM, A CERTIFIED IRRIGATION DESIGNER SHALL PROVIDE SHOP DRAWINGS TO TESLA FOR APPROVAL. UPON APPROVAL OF SHOP DRAWINGS, THE UPDATED IRRIGATION SYSTEM SHALL BE APPROVED BY OWNER FOR FINAL ACCEPTANCE.

EXISTING LEGEND		
— P/L —	APPARENT PROPERTY LINE	⊙
— R/W —	APPARENT RIGHT OF WAY	⊞
— C/L —	APPARENT CENTERLINE	⊞
— WM —	WATER MAIN	⊞
— W —	WATER LINE	⊞
— IR —	IRRIGATION LINE	⊞
— GAS —	GAS LINE	⊞
— ST —	STORM LINE	⊞
— SAN —	SANITARY LINE	⊞
— OH —	OVERHEAD ELECTRIC	⊞
— E —	ELECTRIC MAIN	⊞
— UE —	ELECTRIC LINE	⊞
— L/P —	LIGHT POLE CONDUIT	⊞
EXISTING BUILDING		⊞
LIGHT POLE		⊞
POWER POLE		⊞
POWER/TELEPHONE POLE		⊞
LIGHT/TELEPHONE POLE		⊞
TELEPHONE POLE		⊞
POWER/LIGHT POLE		⊞
POWER/LIGHT/TELE POLE		⊞
UNKNOWN POLE		⊞
ELECTRIC METER		⊞
ELECTRIC MANHOLE		⊞
TRANSFORMER		⊞
ELECTRIC PULLBOX		⊞
	CATCH BASIN	⊞
	CURB INLET	⊞
	STORM MANHOLE	⊞
	SANITARY MANHOLE	⊞
	UNKNOWN MANHOLE	⊞
	SANITARY VALVE	⊞
	SEPTIC TANK	⊞
	FIRE HYDRANT	⊞
	WATER METER	⊞
	WATER VALVE	⊞
	SPRINKLER HEAD	⊞
	WATER MANHOLE	⊞
	GAS VALVE	⊞
	GAS METER	⊞
	GAS MANHOLE	⊞
	GAS SERVICE METER	⊞
	TELEPHONE PEDESTAL	⊞
	TELEPHONE MANHOLE	⊞
	CABLE TV PEDESTAL	⊞
	BOLLARD	⊞
	SIGN	⊞
	LUMINESCENT SIGN	⊞
	CLEANOUT	⊞
	YARD LIGHT	⊞
	FLAG POLE	⊞
	GAS PUMP	⊞
	MAIL BOX	⊞



REV.	DATE	DESCRIPTION
A	09.01.22	ISSUED FOR SITE SKETCH REVIEW
B	09.22.22	ISSUED FOR 90% REVIEW
C	10.06.22	SIGNED AND SEALED
1	12.02.22	REVISED PER AHJ COMMENTS
2	01.09.22	REVISED PER UTILITY COMMENTS

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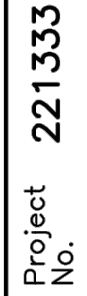
GENERAL NOTES

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

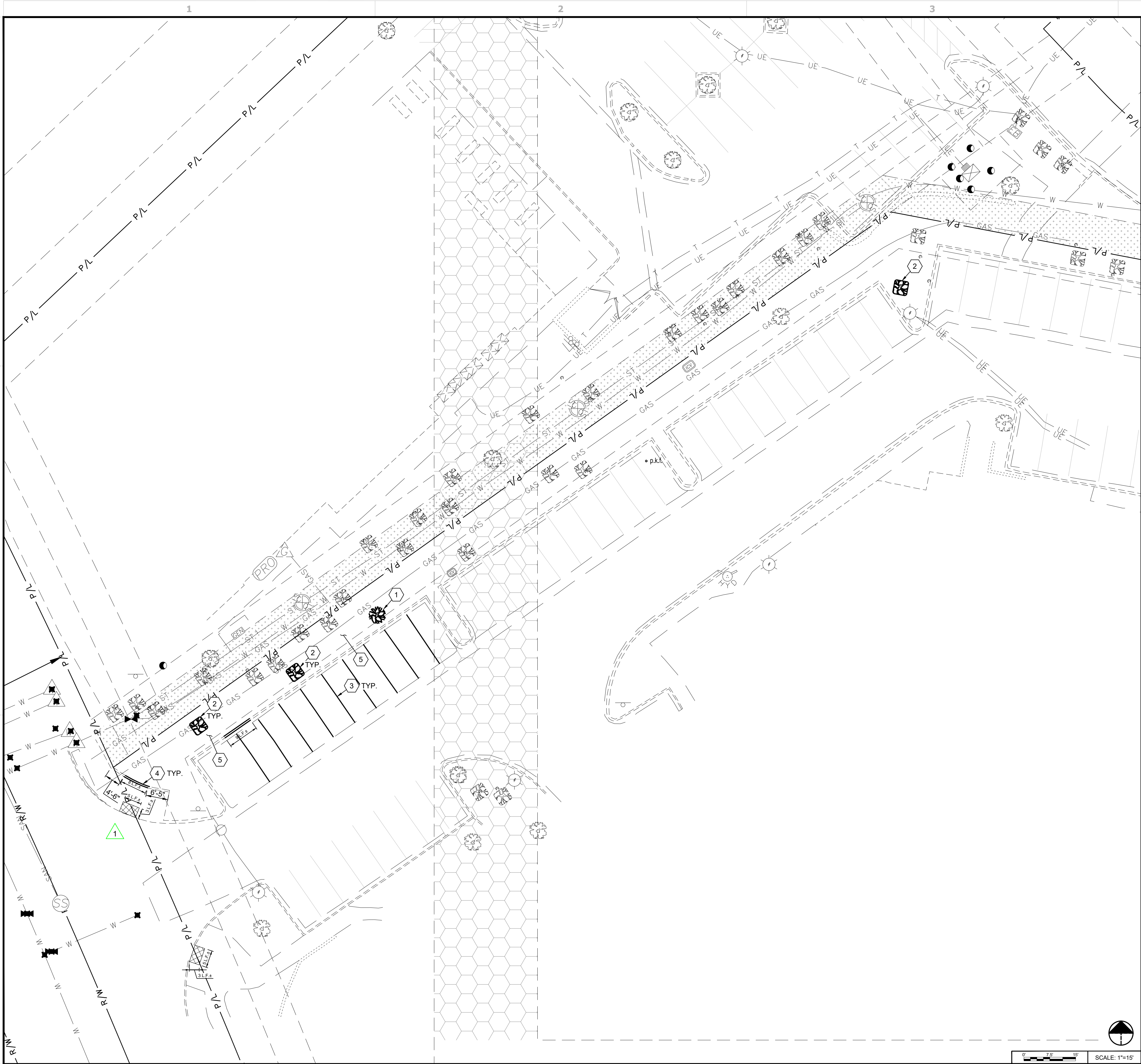
INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

JOB NO.
2022141.67

GN-1



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- CD90.dwg
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DEMOLITION KEYNOTES AND LEGEND

- EXISTING EVERGREEN TREE TO BE REMOVED. CONTRACTOR SHALL VERIFY EXACT SIZE AND TYPE IN FIELD.
- EXISTING LANDSCAPING TO BE REMOVED (SHRUB, PERENNIALS, GROUNDCOVER, ETC.). CONTRACTOR SHALL VERIFY EXACT SIZE AND TYPE IN FIELD.
- EXISTING PAVEMENT MARKINGS TO BE REMOVED. CONTRACTOR SHALL REMOVE MARKINGS WITH SMALL HANDHELD GRINDERS, SCARIFIERS, BEAD BLASTING, SAND BLASTING, WATER BLASTING OR OTHER METHODS, WITH THE APPROVAL OF THE ENGINEER OF RECORD. TAKE CARE DURING MARKING REMOVAL TO NOT SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVER PAINT OR USE OTHER METHODS OF COVERING MARKINGS IN LIEU OF REMOVAL. WATER BLASTING METHOD SHALL NOT BE USED DURING FREEZING WEATHER CONDITIONS.
- EXISTING CONCRETE CURB TO BE REMOVED.
- EXISTING ROCK MULCH TO BE REMOVED FOR CONSTRUCTION SHALL BE SALVAGED ON SITE AND RE-USED PER SHEET C-2.

- EXISTING CONCRETE TO BE REMOVED
- XX L.F. ±
- DENOTES LIMITS OF SAWCUT
- 30' EXISTING VACATED UTILITY EASEMENT
- 10' EXISTING UTILITY EASEMENT


GENERAL SHEET NOTES

- CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT COMPOSITION AND THICKNESS. NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
- APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
- FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY CLARK LAND SURVEYING, INC, DATED 06/18/2022 FOR EXACT LOCATION.



GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 881-5000

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DEMOLITION PLAN



ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

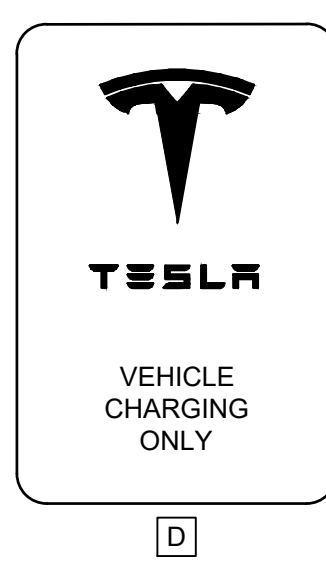
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CHARGING STALL DETAILS

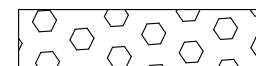
SIGNAGE SCHEDULE			
CABINET #	POST #	SIGN TYPE	
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	1B		D
	1C		D
	1D		D
	2A		D
	2B		D
	2C		D
	2D		V

PARKING STALL ANALYSIS	
EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	10
PROPOSED TESLA STALLS	8
PROPOSED STANDARD STALLS	0
NET STALL COUNT	-2

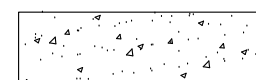


CONSTRUCTION KEYNOTES AND LEGEND

1. PROPOSED PAD MOUNTED ELECTRICAL UTILITY TRANSFORMER (BY UTILITY). CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY SPECIFICATIONS. COORDINATE FINAL LOCATION WITH UTILITY. SEE ELECTRICAL PLANS FOR PROPOSED ROUTING.
2. PROPOSED EQUIPMENT CLEAR SPACE (TYPICAL).
3. PROPOSED ELECTRIC METER MOUNTED TO TRANSFORMER PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.
4. PROPOSED SERVICE ENTRANCE DISCONNECTS MOUNTED TO THE SIDE OF EACH CHARGING CABINET (TOTAL OF 2). SEE ELECTRICAL SHEETS FOR SPECIFICATIONS OF EACH.
5. PROPOSED TESLA CHARGE POST WITH INDIVIDUAL PRECAST CONCRETE FOUNDATION (TYPICAL OF 8). SEE DETAILS ON SHEET C-3.
6. PROPOSED TESLA NON-ILLUMINATED PARKING SIGN MOUNTED ON BOLLARD (TYPICAL OF 8). SEE DETAILS ON SHEET C-4. SEE CHARGING POST SCHEDULE THIS SHEET FOR SIGN TYPE.
7. PROPOSED TESLA CHARGING CABINET (TYPICAL OF 2). SEE DETAILS ON SHEETS C-3.
8. PROPOSED CONCRETE PAD. SEE DETAIL ON SHEET C-3.
9. PROPOSED PAINTED 4" WIDE SOLID WHITE STRIPE. SEE PAVEMENT MARKING NOTES ON SHEET GN-1.
10. PROPOSED PAINTED 4" WIDE WHITE TRANSVERSE STRIPING. STRIPING SHALL BE 3'-0" O.C. SEE PAVEMENT MARKING NOTES ON SHEET GN-1 AND DETAIL ON SHEET C-3.
11. ALL DISTURBED AREAS NOT TO BE PAVED SHALL BE MULCHED PER LANDSCAPE NOTES ON SHEET GN-1.
12. PROPOSED LANDSCAPE: EVERGREEN TREE. (1) TOTAL QUANTITY PINUS CEMBROIDES, MEXICAN PINYON. TO BE PLANTED AT 6' HT., LOCATED PER PLAN. SEE LANDSCAPE NOTES ON SHEET GN-2 AND PLANTING DETAIL ON SHEET C-3.
13. PROPOSED DETERRENT BOLLARD (TYPICAL OF 2). SEE DETAILS ON SHEET C-3.
14. PROPOSED "NO PARKING" IN WHITE LETTERS, 12 INCHES.
15. PROPOSED ADA SYMBOL TO BE PAINTED ONTO PAVEMENT.
16. PROPOSED 6" CONCRETE CURB. SEE DETAILS ON SHEET C-4.
17. PROPOSED 2' CURB TAPER. SEE DETAIL ON SHEET C-4.
18. PROPOSED FLUSH CURB. SEE DETAIL ON SHEET C-4.



PROPOSED TRUNCATED DOMES



PROPOSED CONCRETE, SEE SPECIFICATIONS ON SHEET GN-1
TRENCHING NOT INCLUDED

1

GENERAL SHEET NOTES

1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT COMPOSITION AND THICKNESS. NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
2. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
3. PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY OR DESIGN DRAWINGS BY CLARK LAND SURVEYING, INC, DATED 06/18/2022 FOR EXACT LOCATION.
4. SEE CLARK SURVEY FOR ALL APPLICABLE BENCHMARKS.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SLOPES AND GRADES PRIOR TO CONSTRUCTION. FINAL GRADES SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.
7. CONTRACTOR SHALL ENSURE SLOPES OF PARKING STALL 2D AND ADJACENT TRANSVERSE STRIPED AREA CONFORM WITH ADA SLOPE REQUIREMENTS. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN PARKING STALL 2D AND ADJACENT TRANSVERSE STRIPED AREA. CONTRACTOR SHALL REMOVE AND RE-GRADE PAVEMENT AS REQUIRED TO ACHIEVE NECESSARY SLOPES PER AHJ ACCESSIBILITY REGULATIONS. CONTRACTOR SHALL INSTALL FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH THE CURRENT AHJ'S REGULATIONS.



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CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV


JOB NO.
2022141.67

C-2


SITE PLAN

Drawing Name: O:\2022\202214167 - TRT 18975 - Albuquerque, NM - North Journal Center.dwg 202214167 - Albuquerque, NM
- CD90.dwg
January 6, 2023 1:56 PM - R\vineyard

<div><div>1</div><div><div><div><div><div><div>6-3/32"</div><div>CONDUIT</div></div><div><div>20"</div><div>25-15/16"</div><div>30"</div></div><div>CAR SIDE</div></div></div><div><div>PLAN VIEW</div><div><div>31-7/8"</div><div>TESLA</div><div>30"</div><div>66-13/32"</div><div>CONDUIT</div><div>8'-10"</div><div>EXISTING GRADE</div><div>PAVEMENT</div></div><div><div>CAR SIDE</div><div>2</div><div>RED, 130mA "TESLA" LOGO LED ASSEMBLIES (SEE NOTE 2)</div><div>1</div><div>WHITE, 55mA TASK LIGHT LED ASSEMBLY (SEE NOTE 2)</div></div></div></div><div><div>NOTES:</div><div><div>1. BOLLARD MUST BE FROM TESLA AND INCLUDE WELDED ON FIXTURE ATTACHMENT PADS.</div><div>2. THE 4 33W, 315mA COMBINED TESLA LOGO AND TASK LIGHT LED ASSEMBLIES DRAWS POWER FROM THE PROPOSED SUPERCHARGER.</div><div>3. CONTRACTOR TO FIT REAR SKIN DURING INSTALLATION AND REMOVE REAR SKIN UNTIL TESLA INSPECTION IS COMPLETED.</div></div></div></div></div>		N.T.S		11	<div><div>2</div><div><div><div><div><div><div>45°</div><div>3'-0" O.C.</div><div>4" WHITE STRIPE ON ASPHALT, YELLOW ON CONCRETE</div></div></div><div><div>NOTES:</div><div>1. REFER TO PAVEMENT MARKING NOTES ON SHEET GN-1 FOR ADDITIONAL SPECIFICATIONS.</div></div></div></div></div></div>		N.T.S		8	<div><div>TRANSVERSE STRIPING DETAIL</div><div><div>6" STD. GALV. STEEL PIPE</div><div>RED SLIP COVER</div><div>SLOPE TO DRAIN</div><div>EX. GRADE</div><div>CONCRETE FOOTING, SEE SPECIFICATIONS ON SHEET GN-1</div><div>3'-0" MIN</div><div>3'-0"</div><div>1'-0" DIA.</div><div>3'-0" MIN</div></div><div><div>NOTE:</div><div>DETERRENT BOLLARD IS INTENDED TO PROVIDE A VISUAL DETERRENT AND REDUCE POTENTIAL IMPACT ON EQUIPMENT.</div></div></div>		N.T.S		4	<div><div>3</div><div><div><div><div><div><div>SEE PLAN</div><div>PROPOSED CONCRETE</div><div>1/2" CHAMFER</div><div>#4 BARS @12" O.C. EACH WAY CENTERED IN SLAB</div><div>3" MIN</div><div>GRADE</div><div>6" MIN. COMPACTED FROST-FREE GRAVEL FILL</div></div></div><div>UNDISTURBED SOIL OR PREPARED SUBGRADE (95% STANDARD PROCTOR)</div></div></div><div><div>CONCRETE PAD NOTES & CONCRETE SPECIFICATIONS:</div><div><div>1. FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.</div><div>2. UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.</div><div>3. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4500 psi.</div><div>4. REINFORCING BAR TO BE ASTM A615 GRADE 60.</div><div>5. ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.</div><div>6. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO ACI 318-14 AND APPLICABLE STATE BUILDING CODE.</div><div>7. PAD SHALL BE A MINIMUM OF 8" IN THICKNESS. THICKNESS OF PAD SHALL INCREASE AS THE PERIMETER SOIL SURFACE SLOPES TO MAINTAIN A MINIMUM OF 6" OF SOIL COVER TO THE BOTTOM OF THE PAD.</div></div></div></div></div>		N.T.S		1	<div><div>4</div><div><div><div><div><div><div>NOTE:</div><div>1. TESLA PROVIDED TEMPLATE PLATE TO BE USED TO LAYOUT CHARGING CABINET ANCHORING BOLT LOCATIONS AND CONDUIT STUB UP LOCATIONS.</div><div>2. BOLT HOLES FOR REFERENCE ONLY.</div><div>3. USE DOTTIE DUCT SEAL COMPOUND PC 6130 (CAT NO LHD1) TO SEAL ENDS OF CONDUIT (TYP. ALL CONDUITS FOR CHARGING CABINETS AND CHARGE POSTS)</div><div>4. USE BELL FITTINGS ON ALL AC AND DC CONDUIT STUBS</div><div>5. SEE DETAIL THIS SHEET FOR FOUNDATION DETAIL IF APPLICABLE</div></div></div><div><div>OPENING FOR SHARED DC BUSS CONNECTIONS BETWEEN CABINETS</div><div>FRONT</div><div>BACK</div><div>52.76"</div><div>33.86"</div><div>1" AC CONDUIT FOR MASTER CONTROLLER COMMUNICATION CABLE</div><div>CAST-IN-PLACE FOUNDATION: (4) 5/8" DIA. HILTI KWIK BOLT TZ STAINLESS STEEL ANCHORS, 3-1/8" MIN. EMBEDMENT PROVIDED AND INSTALLED BY CONTRACTOR</div><div>PRECAST FOUNDATION: (4) 5/8" DIA. STAINLESS GRADE 304 BOLTS PROVIDED BY TESLA AND INSTALLED BY CONTRACTOR</div><div>OUTGOING TO POSTS: STUB UP SHALL BE 6" OFF GROUND AND END IN FEMALE NPT THREADED COUPLING (SEE NOTE 4). SEE FEEDER SCHEDULE FOR CONDUIT SIZE/QUANTITY.</div><div>INCOMING FROM SOURCE: (2) AC CONDUITS, STUB UP SHALL BE 6" OFF GROUND AND END IN FEMALE NPT THREADED COUPLING (SEE NOTE 4). SEE FEEDER SCHEDULE FOR CONDUIT SIZE/QUANTITY</div></div></div></div></div></div>	
TESLA SUPERCHARGING POST FOUNDATION		N.T.S		11	DETERRENT BOLLARD DETAIL		N.T.S		8	CONCRETE PAD DETAIL		N.T.S		4	TESLA CHARGING CABINET ANCHOR BOLT PLAN		N.T.S		1		
<div><div>NON-ILLUMINATED SIGN, SEE DETAIL 6 ON SHEET C-3.</div><div>6" STD. GALV. STEEL PIPE FILLED WITH CONCRETE</div><div>RED SLIP COVER</div><div>SLOPE TO DRAIN</div><div>EX. GRADE</div><div>CONCRETE FOOTING, SEE SPECIFICATIONS ON SHEET GN-1</div><div>3'-0"</div><div>6'-0"</div><div>3'-0" MIN</div><div>1'-0" DIA.</div><div>3" CLR</div></div> <div><div>NOTE:</div><div>DETERRENT BOLLARD IS INTENDED TO PROVIDE A VISUAL DETERRENT AND REDUCE POTENTIAL IMPACT ON EQUIPMENT.</div></div>		N.T.S		12	<div><div>PROPOSED AC DISCONNECT ENCLOSURE</div><div>PROPOSED CHARGING CABINET</div><div>CONCRETE PAD</div><div>SIDE ELEVATION</div><div>FRONT ELEVATION</div></div> <div><div>NOTES:</div><div>1. CONTRACTOR TO VERIFY LATEST MOUNT DESIGN AND SPECIFICATIONS WITH TESLA INSTALLATION GUIDE PRIOR TO CONSTRUCTION.</div></div>		N.T.S		9	<div><div>PREVAILING WINDS</div><div>2"X2"X8" WOOD STAKE TO EXTEND 12" INTO COMPACTED SUBGRADE</div><div>MULCH PER SHEET GN-2. MULCH SHALL NOT TOUCH TRUNK.</div><div>TIE STAKE TO TRUNK WITH FLAT WOVEN POLYPROPYLENE TIES, GREEN, OR APPROVED EQUAL. INSTALL PER MANUF. SPECIFICATIONS.</div><div>ALL BURLAP, ROPING, TWINE, ETC TO BE REMOVED FROM TOP 1/2 OF ROOTBALL</div><div>COMPACTED TOPSOIL</div><div>2 X BALL</div></div> <div><div>GENERAL NOTES:</div><div><div>1. SET BALL AND BURLAP STOCK PLUMB IN PLATING PIT WITH ROOT FLARE 2" ABOVE FINISHED GRADE.</div><div>2. ALL EVERGREEN TREES SHALL HAVE HEAVY, SEMI-SHEARED WELL SHAPED CROWNS.</div></div></div>		N.T.S		5	<div><div>TESLA CHARGING CABINET</div><div>89.5"</div><div>35.83"</div><div>37.8"</div><div>41.98"</div><div>49.21"</div><div>54.72"</div><div>TOP</div><div>VENT FAN</div><div>DEADBACK</div><div>33.86"</div><div>52.76"</div><div>ENCLOSURE: INGRESS PROTECTION IP66</div><div>WEIGHT: 1110 kg, 2448 lbs.</div><div>COMPLIANCE: UL 2202</div><div>NOTES:</div><div><div>1. CABINET SHOULD BE LIFTED USING ROOF MOUNTED EYE HOOKS. A FORKLIFT OR PALLET JACK CAN ALSO BE USED TO MOVE CABINET IF DONE PROPERLY.</div><div>2. VERIFY CABINET PART# AND ASSOCIATED DIMENSIONS PRIOR TO CONSTRUCTION</div></div></div>		N.T.S		2	<div><div>NOTES:</div><div><div>1. CHARGING CABINET SHALL BE ANCHORED TO CAST-IN-PLACE FOUNDATION WITH (4) 5/8" DIA. HILTI KWIK BOLT TZ STAINLESS STEEL ANCHORS, 3-1/8" MIN. EMBEDMENT. PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE 8" MIN. EDGE DISTANCE AND 8" MIN. BOLT SPACING.</div><div>2. CHARGING CABINET BASE TEMPLATE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH TESLA FOR EXACT DIMENSIONS AND SPECIFICATIONS.</div></div><div><div>SEE SITE PLAN FOR OVERALL PAD SIZE AND CABINET QUANTITY</div><div>CABINET BASE TEMPLATE PROVIDED BY TESLA. SEE NOTE #2</div><div>CAST-IN-PLACE CONCRETE FOUNDATION. SEE DETAIL 4/C-3</div><div>TEMPLATE ANCHOR LOCATIONS. SEE NOTE #1 & #2</div><div>BACK</div><div>FRONT</div><div>AC</div><div>DC</div><div>DC</div><div>8" MIN.</div><div>8" MIN.</div><div>8" MIN.</div><div>4'-3" MIN.</div><div>±5'-9"</div><div>SINGLE CABINET ONLY</div></div><div><div>PLAN VIEW</div></div></div>	
ACCESSIBLE SIDE REACH PLAN		N.T.S		13	ACCESSIBLE SIDE REACH ELEVATION		N.T.S		10	TYPICAL PARKING SIGN DETAIL		N.T.S		6	CHARGING CABINET FOUNDATION TEMPLATE DETAIL		N.T.S		3		



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Akron, OH 44311
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PALO ALTO, CA 94304
(650) 681-6000

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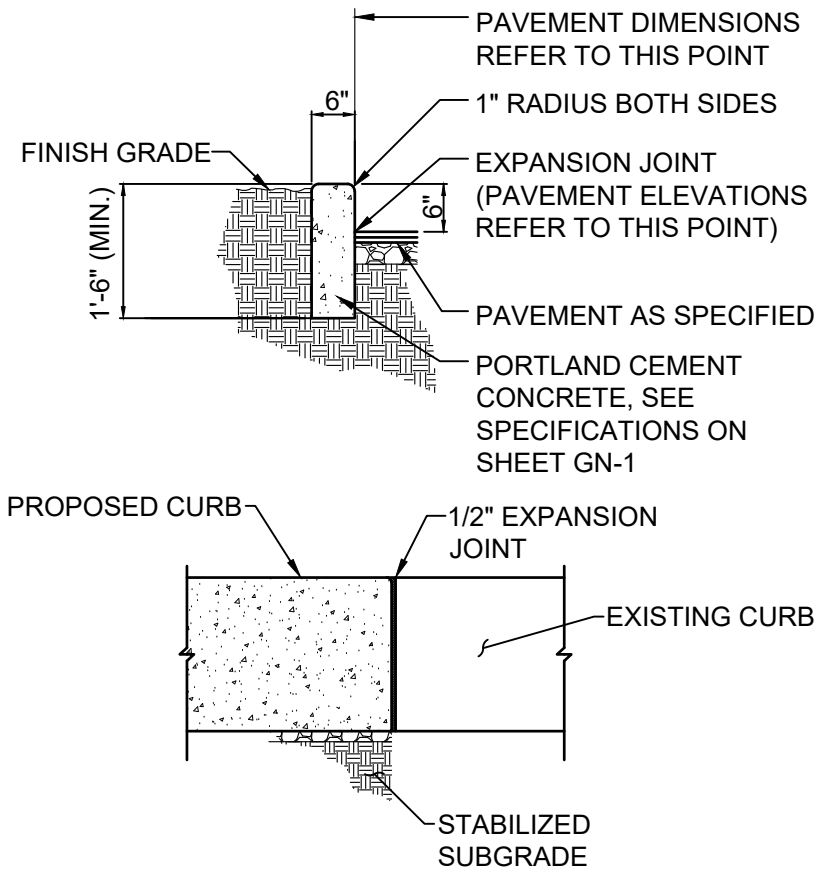
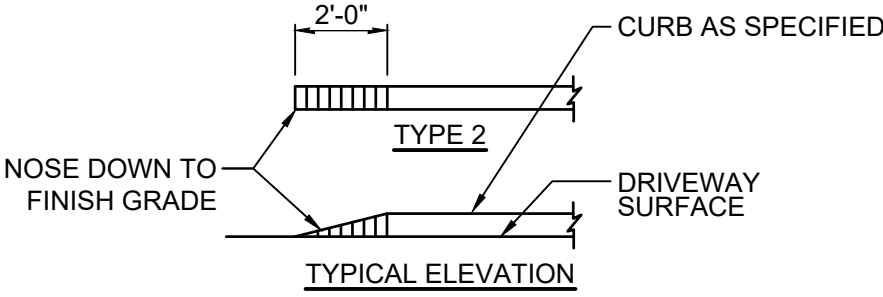
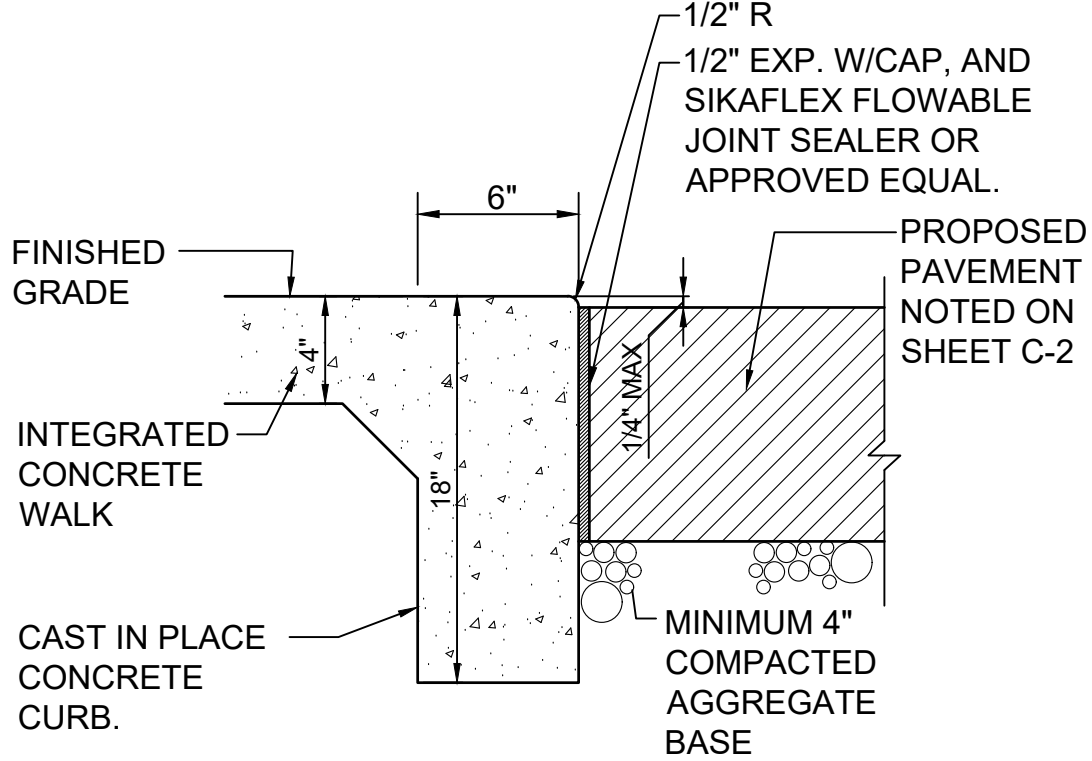
INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV


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C-3


CIVIL DETAILS

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- CD90.dwg
January 6, 2023 1:56 PM - R\vineyard

 <p>PAVEMENT DIMENSIONS REFER TO THIS POINT</p> <p>1" RADIUS BOTH SIDES</p> <p>EXPANSION JOINT (PAVEMENT ELEVATIONS REFER TO THIS POINT)</p> <p>PAVEMENT AS SPECIFIED</p> <p>PORTLAND CEMENT CONCRETE, SEE SPECIFICATIONS ON SHEET GN-1</p> <p>PROPOSED CURB</p> <p>1/2" EXPANSION JOINT</p> <p>EXISTING CURB</p> <p>STABILIZED SUBGRADE</p> <p>NOTE: CURB TO CURB JOINT DETAIL CONTRACTOR TO ASSESS EXISTING CURBS AND INSTALL PROPOSED CURBS TO MATCH. ABOVE DETAILS TO BE USED AS MINIMUM STANDARDS.</p>			 <p>2'-0"</p> <p>CURB AS SPECIFIED</p> <p>TYPE 2</p> <p>NOSE DOWN TO FINISH GRADE</p> <p>DRIVEWAY SURFACE</p> <p>TYPICAL ELEVATION</p>			 <p>1/2" R</p> <p>1/2" EXP. W/CAP. AND SIKAFLEX FLOWABLE JOINT SEALER OR APPROVED EQUAL.</p> <p>PROPOSED PAVEMENT NOTED ON SHEET C-2</p> <p>1/4" MAX</p> <p>MINIMUM 4" COMPACTED AGGREGATE BASE</p> <p>FINISHED GRADE</p> <p>INTEGRATED CONCRETE WALK</p> <p>CAST IN PLACE CONCRETE CURB.</p> <p>NOTES: 1. REFER TO GENERAL NOTES ON SHEET GN-1 FOR CONCRETE SPECIFICATION. 2. SIDEWALK WIDTH AS SHOWN ON SHEET C-2.</p>					
P.C.C. CURB	N.T.S	10	CURB TAPER DETAIL	N.T.S	7	FLUSH CONCRETE CURB AND INTEGRATED WALK	N.T.S	4	DETAIL NOT USED	N.T.S	1
DETAIL NOT USED	N.T.S	11	DETAIL NOT USED	N.T.S	8	DETAIL NOT USED	N.T.S	5	DETAIL NOT USED	N.T.S	2
DETAIL NOT USED	N.T.S	12	DETAIL NOT USED	N.T.S	9	DETAIL NOT USED	N.T.S	6	DETAIL NOT USED	N.T.S	3



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INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

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C-4

1



BENCHMARK	
SEE CLARK SURVEY FOR ALL APPLICABLE BENCHMARKS.	

SEE CLARK SURVEY FOR ALL APPLICABLE
BENCHMARKS.

GENERAL SHEET NOTES

1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT COMPOSITION AND THICKNESS. NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
2. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
3. PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY OR DESIGN DRAWINGS BY CLARK LAND SURVEYING, INC, DATED 06/18/2022 FOR EXACT LOCATION.
4. SEE CLARK SURVEY FOR ALL APPLICABLE BENCHMARKS.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SLOPES AND GRADES PRIOR TO CONSTRUCTION. FINAL GRADES SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.
7. CONTRACTOR SHALL ENSURE SLOPES OF PARKING STALL 2D, ADJACENT TRANSVERSE STRIPED AREA AND PROPOSED CONCRETE PATH OF TRAVEL. CONFORM WITH ADA SLOPE REQUIREMENTS. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN PARKING STALL 2D AND ADJACENT TRANSVERSE STRIPED AREA. CONTRACTOR SHALL REMOVE AND RE-GRADE PAVEMENT AS REQUIRED TO ACHIEVE NECESSARY SLOPES PER AHJ ACCESSIBILITY REGULATIONS. CONTRACTOR SHALL INSTALL FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH THE CURRENT AHJ'S REGULATIONS.



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GRADING PLAN

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CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

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GENERAL ELECTRICAL SPECIFICATIONS

- THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THE CONTRACTOR
- IMPORTANT NOTE:** "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS SUBCONTRACTORS UNLESS NOTED OTHERWISE.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS THAT ARE TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
- CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: THE CONTRACT, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND TO PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUITS, ETC. MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND, AND HOLIDAY WORK AS REQUIRED.
- ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE AWARD OF THE CONTRACT AND AN ADDENDUM WILL BE ISSUED TO COVER SAME.
- GARANTEE - CONTRACTOR SHALL FURNISH OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS OF WORK OR MATERIALS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.
- MATERIALS - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE, AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.
- CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
- ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
- 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 OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.

LICENSES, CERTIFICATIONS OF INSPECTION

- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK.
- CONTRACTOR AND ALL OF HIS SUBCONTRACTORS THAT PERFORM ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED BY ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO TAKE PLACE. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED, ALL COSTS SHALL BE BORNE BY CONTRACTOR.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE BUILDING OWNER. CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

CODES AND ORDINANCES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST EDITION OF NEC AND ALL APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - UL - UNDERWRITERS LABORATORIES
 - NEC - NATIONAL ELECTRICAL CODE
 - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC - STANDARD BUILDING CODE
 - NFPA - NATIONAL FIRE CODES

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

- AS-BUILT REQUIREMENTS:** DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. TO PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS, STORE IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE OWNER'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK DRAWINGS THAT ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN

VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE OWNER'S RECORDS. CONTRACTOR SHALL SUBMIT AS-BUILT SET OF PLANS TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION.

EXISTING CONDITIONS AND DEMOLITION

- ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.
- EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING RENOVATION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY LINES, DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING CONDUITS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
- SITE VISIT - CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTOR'S MEASUREMENTS.

BASIC ELECTRICAL MATERIALS AND METHODS

- WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT CHASES IN WALLS AND FLOORS AS REQUIRED. ALL NEW OPENINGS SHALL BE COORDINATED WITH THE ENGINEER. ALL PENETRATIONS OF THE BUILDING WALLS, CEILING AND FLOORS, THE CONTRACTOR SHALL SEAL WITH QUALITY CAULK, FIRE RATED AND WATERTIGHT, SUBMITTED FOR APPROVAL BY THE OWNER.
- TRASH REMOVAL: CONTRACTOR SHALL REMOVE ALL TRASH CREATED BY HIMSELF OR HIS SUBCONTRACTORS DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO REMOVE TRASH CREATED BY OTHER SUBCONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. PROMPTLY CLEAN-UP ALL SOILING, DEBRIS AND OTHER UNSIGHTLY OR HAZARDOUS CONDITIONS, CAUSED BY WORK OR DELIVERIES UNDER THIS CONTRACT, FROM THE BUILDING GROUNDS, ENTRIES, CORRIDORS, STAIRWAYS, ELEVATORS OR OTHER PUBLIC AREAS. ALL SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.
- SIGNAGE: CONTRACTOR SHALL MAINTAIN SECURITY AROUND PERIMETER OF CONSTRUCTION SITE DURING ALL HOURS BY INSTALLING A TEMPORARY RIBBON FOR INTERIOR WORK TO IDENTIFY CONSTRUCTION AREAS AS REQUIRED. SIGNAGE SHALL BE POSTED WITH NOTIFICATIONS OF "NO TRESPASSING" AND "CONSTRUCTION AREA".
- CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT PATCHING, AND REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. PATCH, PAINT, AND REPAIR ANY AREA DAMAGED TO THE SATISFACTION OF THE BUILDING OWNER.
- THE EXACT LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE EXACT LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR THE MOUNTING AND SUPPORT OF ALL ITEMS REQUIRING THE SAME AS REQUIRED BY N.E.C.
- TRENCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.
- WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- ALL BOLTS SHALL BE STAINLESS STEEL.
- FOR UNDERGROUND RACEWAYS, PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR EARTH MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE RACEWAYS PER THE NEC.

- ELECTRICAL EQUIPMENT**
- ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
 - ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

- CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.
- PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.
- FIRESTOPPING MATERIALS SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH; OR 3M INC., MINNEAPOLIS, MN

FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH

- CONTRACTOR SHALL CONDUCT A FAULT CURRENT CALCULATION ON ALL EQUIPMENT AND MARK AS REQUIRED PER THE N.E.C.
- CONTRACTOR SHALL PROVIDE AN ARC-FLASH STUDY AND LABEL ALL EQUIPMENT AS REQUIRED PER THE N.E.C.

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.
- ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.
- GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.
- MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.
- GROUND-FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SERVICE DISCONNECTS RATED 1000A OR MORE. THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH INSTRUCTIONS THAT SHALL BE PROVIDED WITH THE EQUIPMENT. A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.

ELECTRICAL IDENTIFICATION

- PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.
- PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.
- COLOR CODING OF CONDUCTORS SHALL BE PER NEC REQUIREMENTS.
- 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"

CONDUCTORS AND CABLES

- WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER. #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER, 600V, COLOR CODED, UNLESS NOTED ALUMINUM (AL). REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. PROVIDE 75°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER. UNLESS NOTED OTHERWISE ON DRAWINGS.
- WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY N.E.C. (NOT TO EXCEED 3%).
- PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.
- CONNECTORS FOR POWER CONDUCTORS: 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.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- CABLES - MC CABLE IS NOT PERMITTED.
- PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.
- PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO; OR BURNDY.

ALUMINUM CONDUCTOR REQUIREMENTS

- ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.
- THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.
- ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.
- ALL ALUMINUM (AI) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION), THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
 - TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.
 - ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
 - TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
 - NECA / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS.
 - DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL / ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW U.L. GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

RACEWAY AND BOXES

- RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S. AND COVERED 6" BELOW FINISHED GRADE TO BE PVC, HDPE, OR LFNC. SEE NOTES A & B BELOW. PROVIDE WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER N.E.C. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUAZITE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E. "POWER," "COMMUNICATIONS," "LIGHTING", ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - OUTDOOR:
 - ABOVE GRADE: R.G.S.
 - BELOW GRADE: SCH 40 PVC, SCH 40 HDPE, OR NON-METALLIC FLEXIBLE CONDUIT LISTED FOR DIRECT BURIAL. ALL UNDERGROUND CONDUIT SHALL BE 90°C WET RATED AND INSTALLED 24" MIN. BELOW GRADE. VERIFY APPROVED USE OF HDPE WITH AHJ PRIOR TO ROUGH-IN AND INSTALL PER NEC & MFR RECOMMENDATIONS.
 - PARKING GARAGES:
 - RGS: 8'-0" OR LESS ABOVE GRADE OR PARKING GARAGE FLOOR LEVEL
 - EMT: 8'-0" MINIMUM ABOVE PARKING GARAGE FLOOR LEVEL AND WHERE NOT SUBJECT TO DAMAGE, CONTRACTOR SHALL VERIFY WITH ELECTRICAL INSPECTOR IF EMT IS APPROVED AT THIS PROJECT PRIOR TO ROUGH-IN.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
- CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. CONTRACTOR SHALL PROVIDE MANUFACTURED LONG RADIUS BENDS FOR ALL CONDUITS. RGS 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'.
- OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.
- PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
- PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
- PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
- PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY; FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY, ADALET-PLM.

SAFETY SWITCHES

- ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS AND/OR RISER DIAGRAM. PROVIDE NEMA ENCLOSURE AS REQUIRED BY EXPOSURE TYPE. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

FUSES

- FUSES SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE N.E.C. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.

REV.	DATE	DESCRIPTION
A	09.01.22	ISSUED FOR SITE SKETCH REVIEW
B	09.22.22	ISSUED FOR 90% REVIEW
C	10.06.22	SIGNED AND SEALED
1	12.02.22	REVISED PER AHJ COMMENTS
2	01.09.22	REVISED PER UTILITY COMMENTS


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BLVD NE
(TESLA SUPERCHARGER)
TRT18975 - ALBUQUERQUE, NM 87109

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx


INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

JOB NO.
2022141.67

EN-1



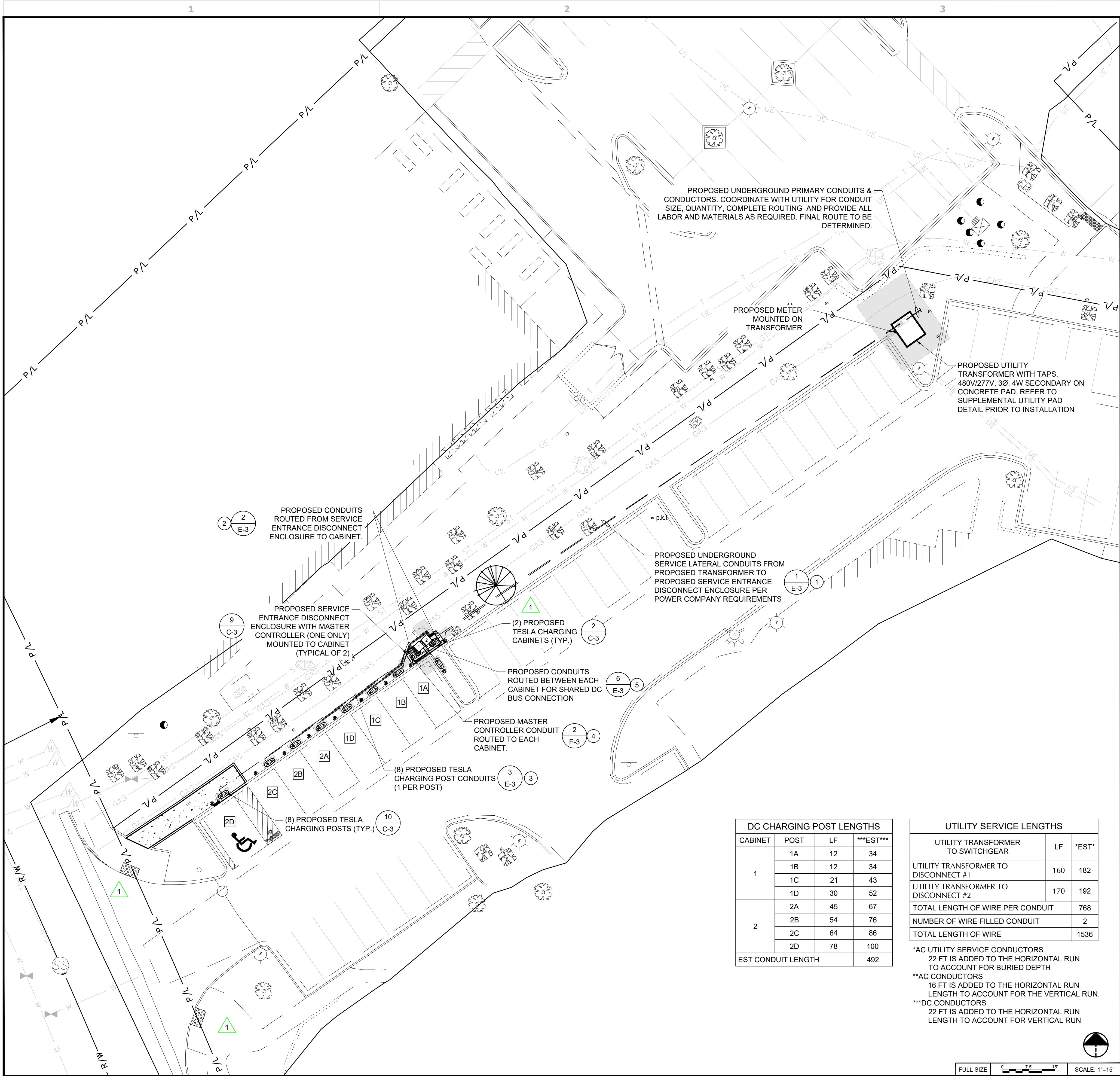
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ELECTRICAL
GENERAL NOTES

Drawing Name: O:\2022\202214167 - TRT 18975 - Albuquerque, NM - North Journal Center.dwg\202214167 - Albuquerque, NM
- CD90.dwg
January 6, 2023 1:57 PM - RVineyard



PROPOSED UNDERGROUND PRIMARY CONDUITS & CONDUCTORS. COORDINATE WITH UTILITY FOR CONDUIT SIZE, QUANTITY, COMPLETE ROUTING AND PROVIDE ALL LABOR AND MATERIALS AS REQUIRED. FINAL ROUTE TO BE DETERMINED.

PROPOSED METER MOUNTED ON TRANSFORMER

PROPOSED UTILITY TRANSFORMER WITH TAPS, 480V/277V, 3Ø, 4W SECONDARY ON CONCRETE PAD. REFER TO SUPPLEMENTAL UTILITY PAD DETAIL PRIOR TO INSTALLATION

PROPOSED UNDERGROUND SERVICE LATERAL CONDUITS FROM PROPOSED TRANSFORMER TO PROPOSED SERVICE ENTRANCE DISCONNECT ENCLOSURE PER POWER COMPANY REQUIREMENTS

PROPOSED CONDUITS ROUTED FROM SERVICE ENTRANCE DISCONNECT ENCLOSURE TO CABINET.

PROPOSED SERVICE ENTRANCE DISCONNECT ENCLOSURE WITH MASTER CONTROLLER (ONE ONLY) MOUNTED TO CABINET (TYPICAL OF 2)

(2) PROPOSED TESLA CHARGING CABINETS (TYP.)

PROPOSED CONDUITS ROUTED BETWEEN EACH CABINET FOR SHARED DC BUS CONNECTION

PROPOSED MASTER CONTROLLER CONDUIT ROUTED TO EACH CABINET.

(8) PROPOSED TESLA CHARGING POST CONDUITS (1 PER POST)

(8) PROPOSED TESLA CHARGING POSTS (TYP.)

DC CHARGING POST LENGTHS			
CABINET	POST	LF	***EST***
1	1A	12	34
	1B	12	34
	1C	21	43
	1D	30	52
2	2A	45	67
	2B	54	76
	2C	64	86
	2D	78	100
EST CONDUIT LENGTH			492

UTILITY SERVICE LENGTHS		
UTILITY TRANSFORMER TO SWITCHGEAR		
	LF	*EST*
UTILITY TRANSFORMER TO DISCONNECT #1	160	182
UTILITY TRANSFORMER TO DISCONNECT #2	170	192
TOTAL LENGTH OF WIRE PER CONDUIT	768	
NUMBER OF WIRE FILLED CONDUIT	2	
TOTAL LENGTH OF WIRE	1536	

*AC UTILITY SERVICE CONDUCTORS
22 FT IS ADDED TO THE HORIZONTAL RUN TO ACCOUNT FOR BURIED DEPTH
**AC CONDUCTORS
16 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR THE VERTICAL RUN.
***DC CONDUCTORS
22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR VERTICAL RUN

GENERAL SHEET NOTES

- "# " DENOTES FEEDER REFERENCE. REFER TO SHEET E-2 FOR FEEDER/CIRCUIT SCHEDULE.
- CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
- CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
- CONDUIT ELBOWS SHALL BE SIZED PER NEC. CONTRACTOR SHALL VERIFY MANUFACTURER ALLOWABLE FILL AND MINIMUM CONDUCTOR BENDING RADIUS. SEE FEEDER SCHEDULE FOR CONDUIT & CONDUCTOR SPECIFICATIONS.
- ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
- ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN TRENCH DETAILS, AS WELL AS MAINTAIN A MINIMUM OF 18" CLEAR OF ALL EXISTING OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES AND OTHER UNDERGROUND UTILITIES.
- FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES

SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE UTILITY TRANSFORMER	X	
INSTALL UTILITY TRANSFORMER	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY)	X	2
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)		X
PROVIDE METER BASE	X	
INSTALL METER BASE		X
PROVIDE METER	X	
INSTALL METER	X	
PROVIDE CTs	X	
INSTALL CTs (INSIDE TRANSFORMER)	X	
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS		X
PROVIDE ROAD CUTS / ROAD BORES		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY PNM. FIELD VERIFY PRIOR TO CONSTRUCTION.

POWER COMPANY CONTACTS

PNM
ATTN: DANIELLE MONTOYA
(480) 337-6589
DMONTOYA@BURNSMCD.COM

REV.	DATE	DESCRIPTION
A	09.01.22	ISSUED FOR SITE SKETCH REVIEW
B	09.22.22	ISSUED FOR 90% REVIEW
C	10.06.22	SIGNED AND SEALED
1	12.02.22	REVISED PER AHJ COMMENTS
2	01.09.22	REVISED PER UTILITY COMMENTS

5151 JOURNAL CENTER
BLVD NE
(TESLA SUPERCHARGER)
TRT18975 - ALBUQUERQUE, NM 87109

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

JOB NO.
2022141.67

E-1

Drawing Name: O:\2022\202214167 - TRT 18975 - Albuquerque, NM - North Journal Center.dwg\202214167 - Albuquerque, NM
- CD90.dwg
January 6, 2023 1:57 PM - RV\ineyard

AVAILABLE FAULT CURRENT (AMPS)	
1	45,100
2	28,900
3	27,950

NOTE: FAULT CURRENT CALCULATIONS PERFORMED USING INFINITE BUS CALCULATION WITH AN ASSUMED 750KVA TRANSFORMER IMPEDANCE OF 2%.

SERVICE LOAD SUMMARY
S.E. DISCONNECT #1 CONNECTED LOAD: 465A
S.E. DISCONNECT #2 CONNECTED LOAD: 1A
S.E. DISCONNECT #3 CONNECTED LOAD: 465A
TOTAL SERVICE LOAD: 931A x 1.25 = 1164A

SECONDARY CONDUCTOR CALC.
(4) SETS OF 500 MCM AL @ 75° = 1240A

PROPOSED SERVICE ENTRANCE MAIN DISCONNECT #1. 600A, 480/277V, 3Ø, 4W, 65 KAIC, NEMA 3R, LOCKABLE IN OPEN POSITION OBTAINING APPROVAL FOR MULTIPLE SERVICE DISCONNECTS FROM UTILITY AND AHJ BY TESLA

PROPOSED SERVICE ENTRANCE MAIN DISCONNECT #3. FACTORY INSTALLED LINE SIDE TAP FOR CONTROL & LOAD MANAGEMENT CIRCUIT PER NEC 230.71 & 230.82. LOCATED IN SEPARATE COMPARTMENT FROM SERVICE DISCONNECT #1. TYPICAL ONE ENCLOSURE ONLY

INTEGRATED SITE MASTER CONTROLLER

CHARGING CABINET/CENTER DC CABINET FOR SHARED DC BUS INTERCONNECTION (STAR CONNECTION) TYPICAL OF 1

UTILITY PAD MOUNTED TRANSFORMER WITH TAPS
480/277V, 3Ø, 4W
(BY UTILITY)

SEE GENERAL SHEET NOTE 2

PROPOSED GROUND BY UTILITY

NOTES:

- ALL TESLA SYSTEM WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURERS RECOMMENDED PRACTICES.
- ALL SERVICE ENTRANCE DISCONNECTS ARE GROUPED TOGETHER IN SAME LOCAL VICINITY AND SHALL BE MARKED TO INDICATE NUMBER OF SERVICES, LOCATION, AND LOAD SERVED. TESLA TO VERIFY WITH AHJ THAT PROPOSED GROUPING IS ACCEPTABLE PER NEC.

PROPOSED SERVICE ENTRANCE MAIN DISCONNECT #2. 600A, 480/277V, 3Ø, 4W, 65 KAIC, NEMA 3R, LOCKABLE IN OPEN POSITION OBTAINING APPROVAL FOR MULTIPLE SERVICE DISCONNECTS FROM UTILITY AND AHJ BY TESLA

SERVICE GROUND. SEE SHEET E-3.

TYPICAL CHARGING CABINET ONLY (TYP. OF 1)

INTEGRAL DISCONNECT FOR EACH CHARGING POST FOR SERVICING OF EQUIPMENT (TYPICAL EACH CABINET)

VEHICLE CHARGING POST (TOTAL OF 8) TYPICAL OF 4 POSTS PER CABINET

*OCPD FOR CHARGING CABINETS IS CALCULATED AS FOLLOWS:
465A AC INPUT TO CABINET x 1.25 = 581.25A ==> 600A REQUIRED

BREAKER SETTINGS								
BREAKER USE	BREAKER SIZE	LONG TIME PICKUP	LONG TIME DELAY	SHORT TIME PICKUP	SHORT TIME DELAY	INST	GND FAULT PICKUP	GND FAULT DELAY
MCB EATON PD3	600A	X	X	X	X	5	X	X
MCB EATON LGH	600A	X	X	X	X	5	X	X
MCB SQUARE D LJ	600A	600A	0.5	X	X	5	X	X
MCB SQUARE D LI	600A	X	X	X	X	LO	X	X
MCB ABB T5	600A	MAX (600A)	X	X	X	MIN (3000A)	X	X

NOTE: CONTRACTOR SHALL VERIFY BREAKER MAKE/MODEL AND SET PER THE ABOVE TABLE. NOTIFY TESLA IMMEDIATELY OF ANY DISCREPANCIES.

TESLA V3 CHARGING CABINET & POST ELECTRICAL SPECS							
CHARGE POST MODEL	AC INPUT VOLTAGE TO CABINET	kVA INPUT TO CABINET	AC INPUT CURRENT TO CABINET	DC OUTPUT VOLTAGE TO CHARGE POST	DC OUTPUT CURRENT TO CHARGE POST	DC SHARED BUS CURRENT	SHORT CIRCUIT CURRENT RATING
V3	380V-480V	387kVA	465A	0V - 500V	350A	640A	85 KAIC

FEEDER/CIRCUIT SCHEDULE	
NO	CONFIGURATION
1	(2) SETS - EACH IN 4" CONDUIT (3) 500 MCM AI (1) 500 MCM AI NEUT VERIFY W/ UTILITY BEFORE CONSTRUCTION.
2	(2) SETS - EACH IN 4" CONDUIT (3) 500 MCM AI (1) 500 MCM AI NEUT (1) #1 AWG Cu GND OR #2/0 AWG AI GND
3	(1) SET - EACH IN 4" CONDUIT (4) 350 MCM AI (TWO +, TWO -) (1) #1 AWG Cu GND OR #2/0 AWG AI GND (1) 1000V, CLASS 1, COMM CABLE
4	OUTDOOR RATED/SHIELDED CAT5e OR CAT6 COMMUNICATION CABLE IN 1" CONDUIT.
5	(2) SETS - EACH IN 3" CONDUIT. (2) 600 MCM AI (ONE +, ONE -) (1) #3/0 AWG AI DC MID (1) #1/0 AWG Cu GND (1) #3/0 AWG AI DC MID DISC. 36" LONG IN EA. CABINET, NOT ROUTED IN CONDUIT

NOTE:

- ALL AC CONDUCTORS SHALL BE XHHW-2, 600V RATED, U.N.O.
- ALL DC CONDUCTORS SHALL BE XHHW-2, 1000V RATED, U.N.O.
- FOR APPROVED COPPER/ALUMINUM EQUIPMENT GROUNDING CONDUCTOR EQUIVALENTS. SEE TABLE BELOW. ALL ALUMINUM EQUIPMENT GROUND CONDUCTORS SHALL BE TERMINATED IN OUTDOOR ENCLOSURES LISTED AND IDENTIFIED FOR THE ENVIRONMENT PER NEC 2020, ARTICLE 250.64(A)(2).
- SEE "RACEWAY AND BOXES" NOTES ON SHEET EN-1 FOR CONDUIT USE TYPES FOR ABOVE AND BELOW GRADE APPLICATIONS.

MINIMUM EQUIPMENT GROUNDING CONDUCTOR SIZE		
AMPERE RATING OR SETTING OF OCPD IN CIRCUIT AHEAD OF EQUIPMENT	COPPER SIZE	ALUMINUM SIZE
15	12	12
20	12	10
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	750

GENERAL SHEET NOTES

- NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
- PROPOSED UTILITY CTs SHALL BE LOCATED IN UTILITY APPROVED CT COMPARTMENTS MOUNTED IN TRANSFORMER. PROPOSED METER SHALL BE MOUNTED ON TRANSFORMER.
- ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR.
- ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. SEE SHEET E-1 FOR UTILITY/CONTRACTOR SCOPE OF WORK.
- THE TESLA PROVIDED CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
 - TUV CERTIFIED TO UL 2202
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
- REFER TO THIS SHEET FOR FAULT CURRENT CALCULATIONS. CONTRACTOR SHALL MARK ON ALL EQUIPMENT AS REQUIRED PER N.E.C.
- REFER TO SHEET E-3 FOR ARC FLASH LABEL DETAILS. CONTRACTOR SHALL LABEL ALL EQUIPMENT AS REQUIRED PER N.E.C.

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ONE-LINE DIAGRAM

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INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

JOB NO.
2022141.67

E-2

Drawing Name: O:\2022\2022141\67 - TRT 18975 - Albuquerque, NM - North Journal Center.dwg\2022141\67 - Albuquerque, NM
- CD90.dwg
January 6, 2023 1:57 PM - RVineyard

C

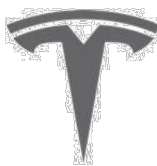
B

A

V3 Supercharger Cabinet

AC INPUT (Electrical)	Input (V _{AC})	480	440	415	400	380	
	Peak AC Input Power	Power (kVA)	387	354	334	322	306
	AC Input Voltage	380 V _{AC} – 480 V _{AC} (-5%, +10%), 4-wire 3AC+N					
	AC Input current	465 A _{AC} Max.					
	Frequency	50 Hz / 60 Hz					
	Power Factor	≥ 0.99					
	Current THD	< 3%					
	Voltage THD	< 2%					
AC INPUT (Mechanical)	Conductor Sizes	L1, L2, L3, N: 150 – 400 mm ² , 250 MCM – 750 MCM PE: 10 – 70 mm ² , #8 AWG - 2/0					
	Conductor Material Type	L1, L2, L3, N: Cu, Al PE: Cu					
	Mfr. Termination Temp Rating	90° C					
SHARED DC BUS (ELECTRICAL)	Input (V _{AC})	480	440	415	400	380	
	Max Rated DC Bus Power	Power (kW)	575	575	575	575	575
	Max Rated DC Bus Current	Current (A _{DC})	640	640	640	640	640
	DC Bus Voltage Range	880 - 1000 V _{DC}					
SHARED DC BUS (MECHANICAL)	Conductor Sizes	V+, V- (2x/pole): 150 – 300 mm ² , 250 MCM – 600 MCM Mid: 16 – 150 mm ² , 6 AWG – 250 MCM PE: 10 – 70 mm ² , #8 AWG - 2/0					
	Conductor Material Type	V+, V-, Mid: Cu, Al PE: Cu					
	Conductor Voltage Rating	1000 V					
	Mfr. Termination Temp Rating	90° C					
DC POST (ELETRICAL)	Max. Rated Post Power	250 kW					
	Post Rated Voltage Range	0-500 V _{DC}					
	Post Rated Current @T _a =35° C	Tesla Handle: 350 A _{DC} , CCS2 & GB Handle: 450 A _{DC}					
	Number of Charge Posts	1 - 4					
	Max Voltage Drop	10 V _{DC}					
DC POST (MECHANICAL)	Conductor Size	V+, V- (2x/pole): 350 MCM or 185 mm ² AL (certified equipment wiring) PE: 10 – 70 mm ² , #8 AWG - 2/0					
	Conductor Material Type	V+,V-: Al, Cu PE: Cu					
	Conductor Voltage Rating	1000 V					
	Mfr. Termination Temp Rating	90°C					
SYSTEM	Efficiency	96%					
PROTECTION	AC Input side: Class 1	DC Output side: Isolated DC Output					
	Over Voltage/Current/Temperature, Surge Protection, Isolation Monitoring						
	Short-Circuit Protection	External Electronic Trip Circuit Breaker					
	Short Circuit Current Rating	85 kA RMS symmetrical					
ENVIRONMENTAL	Operating Temperature	-30°C to 50°C, -22°F to 122°F					
	Ingress Protection	IP66 (Cabinet), IP2X (Cooling)					
	Ventilation Requirements	Ventilation Not Required					
NOISE	Typical noise at 1m	35 dB(A)					
STANDARDS	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B, IEC 61851-1, EN 61000-6-2 EN 55011, GB/T 18487.1, GB/T 27930, NB/T 33008.1, NB/T 33001						
LAYOUT	Max. Distance to Charge Post	100 m, 340 ft.					
WEIGHT	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)					
		3 Post Cabinet: 1039kg (2291 lbs)					
DIMENSIONS	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.					
MOUNTING	Per-anchor min. Shear Strength	4 kN					
	Per-anchor min. Tension Strength	11 kN					

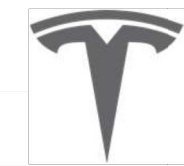
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V3 Supercharger Charge Post

POST INPUT/OUTPUT (ELECTRICAL)	Max. Rated Post Power	250 kW
	Post Rated Voltage Range	0 - 500 V _{DC}
	Post Rated Current @T _a =35° C	Tesla Handle: 350 A _{DC} , CCS2 & GB Handle: 450 A _{DC}
DC INPUT (MECHANICAL)	Power Conductors	V+, V- (2x/pole): 350 MCM or 185 mm ² AL (certified equipment wiring)
	PE Conductor	PE: 25 – 50 mm ² , 3 AWG – 2/0
	Conductor Material Type	V+, V- : Al, Cu PE: Al, Cu
	Conductor Voltage Rating	1000 V
	Mfr. Termination Temp Rating	90° C
PROTECTION	Over Current/Temperature, Uneven Current Split	
ENVIRONMENTAL	Operating Temperature	-40°C to 50°C, -40°F to 122°F
	Ingress Protection	IP44
STANDARDS	UL 2202, CSA 22.2#107.1-16, FCC, ICES-003, EN 61000-6-2, EN 61000-6-4, IEC 61851-1, IEC 61851-23, GB/T 18487.1, GB/T 27930, GB/T 20234.1, GB/T 20234.3, GB/T 34658	
LAYOUT	Max. Distance to Cabinet	100 m, 340 ft.
WEIGHT	Charge Post Weight	64 kg, 140 lbs.
DIMENSIONS	Depth, Width, Height	250, 810, 1687 mm; 9 27/32, 31 7/8, 66 13/32 in.
MOUNTING	Per-anchor min. Shear Strength	1 kN
	Per-anchor min. Tension Strength	11 kN

CONFIDENTIAL INFORMATION – SHARED NDA ONLY



V3 SUPERCHARGER DATASHEET

TESLA

3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 881-5000

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FOR
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ONLY

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TESLA DATASHEET

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INSTALL MANAGER	DESIGNER
BETH SORENSEN	RDV

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