



FARR WEST CITY PLANNING COMMISSION AGENDA

December 14, 2023 at 6:00 p.m.
City Council Chambers
1896 North 1800 West
Farr West, UT 84404

Notice is hereby given that the Planning Commission of Farr West City will hold a 6:00 pm work session and their regular meeting at 7:00 pm on Thursday, December 14, 2023

6:00 pm Work Session – Discuss amendments to the C-2 Commercial zone and subdivision ordinance

1. Call to Order – Chairwoman Genneva Blanchard
2. Opening Ceremony
 - a. Pledge of Allegiance
 - b. Prayer
3. Comments/Reports
 - a. Public Comments (2 minutes)
 - b. Report from City Council
4. Business Items
 - a. Public hearing to consider approval of the amendments to the M-1 zone
 - b. Recommend to the City Council approval or denial of the amendments to the M-1 zone
 - c. Recommend to the City Council approval or denial of the site plan for Tesla, Inc. for a charging station located at 1750 West 2700 North
 - d. Set a public hearing for January 4, 2023 to consider the request to vacate a public utility easement for Steven and Shirlene Wilson located at 2880 West 3325 North
 - e. Set a public hearing for January 11, 2023 to consider the request to amend the general plan to allow for the commercial zone at 1407 North 2000 West
 - f. Set a public hearing for January 11, 2023 to consider the request of a re-zone of the Beal Family Trust property, parcel number 15-442-0002, located at 1407 North 2000 West, from the A-1 zone to the C-2 Commercial zone
 - g. Set a public hearing for January 11, 2023 to consider the request to amend the general plan to allow for the manufacturing zone at 1686 West and 1712 West Farr West Drive
 - h. Set a public hearing for January 11, 2023 to consider the request of a re-zone of a portion of the Chugg properties, parcel numbers 19-414-0001 and 19-414-0002, located at 1686 West and 1712 West Farr West Drive, from the R-1-15 zone to the M-1 Manufacturing zone – Steve Borup
5. Consent Items
 - a. Approval of minutes dated November 9, 2023
6. Chairman/Commission Follow-up
 - a. Report on Assignments
7. Adjournment

In compliance with the American with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify the City Recorder at 801-731-4187, at least three working days prior to the meeting. Notice of time, place and agenda of the meeting was mailed to each member of the Planning Commission, posted in the City Hall, and posted on the Utah Public Meeting Notice Website on December 8, 2023.

Lindsay Afuvai
Recorder

CHAPTER 17.40

M-1 MANUFACTURING ZONE

SECTION:

17.40.010: Purpose

17.40.020: Permitted Uses

17.40.030: Conditional Uses

17.40.040: Basis for Issuance of Conditional Permit

17.40.050: Prohibited Uses

17.40.060: Site Development Standards

17.40.070: Additional Requirements

17.40.080: M-1 Zone Adjacent to A Residential or Agricultural Zone

17.40.010: PURPOSE:

The M-1 Manufacturing Zone is established to provide areas in the City where processing, assembling, manufacturing, and warehousing activities may take place, and for incidental service facilities to serve the manufacturing uses. The zone is intended to encourage the orderly growth of the city and its economic base. (Ord. 2014-04)

17.40.020: PERMITTED USES:

The following uses are permitted in the M-1 Zone:

All permitted use in the C-2 General Commercial Zone.

Assembling

Boat building and repair

Construction Services

Major and minor Automotive repair, detailing and body work.

Packaging

Building Materials Sales with no Bulk soil, rock, and aggregate sales, storage, or processing.

Motor/recreation vehicle sales and service

Warehousing and storage units

Sexually oriented businesses, subject to the requirements of title 5, chapter 5.10 of this Code.
(Ord. 2017-04)

17.40.030 CONDITIONAL USE:

A. Permits for conditional uses shall be authorized only upon recommendation by the Planning Commission and approval by the City Council.

B. The Planning Commission review of conditional uses shall be made with the general purpose of guiding and accomplishing a coordinated, adjusted, and harmonious development in accordance with existing and future needs of the city. In making a recommendation on conditional uses, the Planning Commission shall consider the existing site zoning, the Zoning Ordinances, and the approved General plan, the use of the surrounding property; the present and future requirements for streets, off street parking, and on street parking in relation to exits and entrances from public streets, pedestrian and vehicular traffic circulation, availability of water and other utilities, and other public requirements including the health, safety and welfare of the citizens of the city. The City Council, upon recommendation by the Planning Commission or on its own motion, may impose reasonable conditions as are necessary to protect the rights of surrounding property owners and tenants and to carry out the purposes of this chapter and characteristics of this zone.

17.40.040: BASIS FOR ISSUANCE OF CONDITIONAL USE PERMIT:

A conditional use permit shall not be authorized unless a public hearing is held, and evidence is presented to establish:

A. That the proposed use of the particular location is necessary or desirable to provide a service or facility which will contribute to the general well-being of the community; and

B. That such use will not, under the circumstances of the particular case and the conditions imposed, be detrimental to the health, safety and general welfare of persons nor injurious to property or improvements in the community, but will be compatible with and complementary to the existing surrounding uses, buildings, and structures when considering traffic generation, parking, building design and location, landscaping and signs; and

C. That the proposed use will comply with the regulations and conditions specified in this title for such use and.

D. That the proposed use conforms to the goals, policies and governing ordinances and principles and land use of the general plan for Farr West City; and

E. That the proposed use will not lead to the deterioration of the environment, or ecology of the general area, nor will produce conditions or emit pollutants of such a type or of such a quantity to detrimentally affect, to any appreciable degree, public or private

property including the operation of existing uses thereon, in the immediate vicinity or the community or area as a whole. (Ord. 2010-03

The following conditional uses shall be permitted only after approval has been given by the City Council upon recommendation by the Planning Commission:

Contractors Equipment Storage yard or Equipment Rental

Dry cleaning and laundry facilities.

Indoor Firearms/ Archery Range

Laboratory

Liquor stores.

Manufacture, compounding, processing & Packaging

Medical and Dental Facilities

Medical Research Facility

Metal Plating, Metal anodizing, metal polishing

Primary metal industries.

Processing.

Public Utility Production

Public and quasi-public uses.

Research and development.

Trucking businesses.

Wireless telecommunications facilities, subject to chapter 17.50 of this title.

17.40.050: PROHIBITED USES:

No residential uses shall be permitted in the M-1 Zone, except as part of a business enterprise that is either required by law to always have someone on site or where such on-site residence is customary in the industry. (Ord. 2017-04)

Hazardous products: Gaseous or Liquid nonfood products products that are, or have the potential of being combustible, explosive, poisonous or infections, radioactive or otherwise hazardous or capable of posing a risk to health, safety, property, or environment.

17.40.060: SITE DEVELOPMENT STANDARDS:

- A. Front and side yard setbacks from a public dedicated street: Twenty feet (20').
- B. Side yard setback (adjacent to manufacturing or commercially zoned property):
As required in the adopted building code.
- C. Rear yard setback (adjacent to manufacturing commercially zoned property):
As required in the adopted building code.
- D. Side yard setback (adjacent to residentially zoned property): Twenty feet (20').
- E. Rear yard setback (adjacent to residentially zoned property): Twenty feet (20').
- F. Lot of area and width: As required in the adopted zone.
- G. Minimum height: Eight feet (8') or one story whichever is greater.
- H. Maximum height: No requirement.
- I. Parking requirements: See sections 17.44.130 through 17.44.150 of this title. (Ord. 2017-04: Ord. 93-003 § 8-6(4))

17.40.070: ADDITIONAL REQUIREMENTS:

A. Landscaping:

1. Area Requirements: An area of not less than ten percent (10%) of the site as depicted on the site plan shall be landscaped with live plantings; The perimeter area and slopes of the Retention/Detention basins may be included as part of the landscape area if landscaped. The park strip between any public street and the site, whether existing or proposed, is the responsibility of the site property owner/ tenant to maintain. (Ord. 17-02)
2. Screening; Visual/Noise: Landscaping prescribed by the Planning Commission to accomplish other requirements of this title, as in visual screening, noise abatement or other needs based on site conditions may be required as part of, or in addition to, the ten percent (10%) landscaping requirement.
3. Location: Front setbacks, side setbacks facing the street, and other areas visible to the public are required to be landscaped.
4. Ground Cover: All landscaped areas shall be covered with a minimum three (3) inch layer of decorative rock or other approved medium to allow water to infiltrate the ground and inhibit weed growth. Detention basins shall also be lined with rock.

5. Plant Materials: All Landscaped areas shall be planted with plants that are well-suited to conditions at the project site and may include native and locally adapted shrubs, trees, or ornamental grasses and perennials compatible with xeriscape environment. (Xeriscape is a landscaping method developed especially for arid and semiarid climates that utilizes water-conservation techniques.)

6. Watering: The landscaping plan shall include a secondary water supply. Culinary water shall not be used. The irrigation systems shall be designed to minimize water consumption by using an underground drip or bubble system with an automatic controller.

7. Maintenance: The preservation of the landscaping shall be maintained in a healthy, neat, and orderly condition free of weeds and litter. Diseased or dead plant materials shall be removed and replaced by June 1 if due to winter kill or October 1 if the plant materials die during the summer months. The preservation and maintenance of the landscaping in the park strip areas are the responsibility of the property owner/ tenant.

8. Completion Requirements: Landscaping shall be completed prior to the issuance of the Certificate of occupancy for the building or structure with which it is associated. In the case of inclement weather that prevents the installation of the required landscaping, the time of completion may be extended, in writing upon approval of the Chief Building Official.

B. Outside Storage: Any part of a lot used for the storage of equipment, merchandise, parts, or other items, if not in an enclosed building or if visible from the frontage shall be enclosed by a sight obscuring wall or fence with a minimum height of six feet (6').

C. All areas not covered by landscaping or pavement shall be protected from dust and must control the weeds.

D. Miscellaneous: See sections 17.44.130 through 17.44.150 of this title. (Ord. 2017-04: Ord. 2015-10: Ord. 93-003 § 8-6(5))

17.40.080: M-1 ZONE ADJACENT TO A RESIDENTIAL OR AGRICULTURAL ZONE:

A. Set back from any residential or agricultural zone:

1. Setbacks adjacent to any residential or agricultural zone shall be equal to or greater than the highest point of the building.

2. The minimum setback is twenty (20) feet.

B. Outside storage and staging of pallets, products, equipment, and materials are not allowed.

C. Lighting:

1. Light, other than natural light, shall not negatively impact residential or agricultural property.

2. No exterior light pole or light fixture shall be closer than four feet (4') from a residential or agricultural property line.
3. Light fixtures within twenty feet (20') of a residential or agricultural property line shall have a solid cover, from the top of the light fixture and bulb to four inches (4") beyond the bottom of the light fixture and bulb. The cover shall surround the light fixture and bulb for one hundred eighty degrees (180°) on the side of the fixture adjacent to the residential or agricultural property.
4. Exterior lighting twenty feet (20') or more from a residential property line shall be directed straight down or away from a residential or agricultural property line.
5. The beam of exterior lighting shall not shine directly onto residential or agricultural property.
6. Other lighting designs and covers may be approved at the sole discretion of Farr West City.

D. Noise Levels:

1. Operational noise levels shall be submitted to and approved by Farr West City prior to final approval of construction documents.
2. Noise from a property in a M-1 zone that is determined to be a nuisance by Farr West City shall be abated by the property owner.

E. Walls And Fences: A wall at least eight feet (8') in height shall be erected along all property lines in common with residentially zoned property. The type and materials of such wall shall be approved by the planning commission as a part of the site plan review. See chapter 17.46 of this title and Ord. 2022-06

Application for Site Plan Approval



1896 North 1800 West
Farr West, UT 84404
Phone – (801) 731-4187
Fax – (801) 731-7732

Date Submitted: _____

Applicant Name: Meghan Youngbar, agent of Dewberry Engineers, Inc Applicant Address: [REDACTED]
c/o Tesla, Inc.

Phone: [REDACTED]

Business Name: Richard L Miller Properties LLC Application Number: _____

Business Address: 2455 W Main St. Tremonton, UT 84337 Phone: _____

Address and description of site being considered: 1750 West 2700 North, Farr West, UT 84404

Tax ID number of site being considered: 19-146-0005

Current zoning of site: C-2-Commercial

FEE SCHEDULE

Application: \$100.00 Engineering Deposit: \$1,000.00

Site Plan approval is required for the following conditions. Please indicate all conditions associated with this application:

- ☐ All proposed new development except single-family detached residences.
- ☐ All additions of alterations to nonconforming structures (see chapter 17.52 of the Farr West City municipal code for reference to nonconforming buildings).
- ☐ Issuance of a conditional use permit for new construction.
- ☐ New signs
- ☒ Modified site plan review shall be required for any change of use in a existing structure or site or addition, except single-family detached residences.
- ☐ All plans for earth sheltered dwellings.

The following information is required for site plan approval (check box next to all items submitted with application):

(Note: Not providing the required information will result in a delay of approval by the planning commission)

- ☐ A site plan (or set of plans as needed) showing all the required information listed below drawn accurately to an engineering scale. The plan needs to be submitted on 11x17, or larger paper, **and** in an electronic PDF format.
- ☐ Lot dimensions and orientations: North arrow, etc.
- ☐ Existing and proposed buildings with their dimensions and the locations of all opening in exterior walls.
- ☐ Height of all buildings and other proposed or existing structures; type and slope of roof construction.
- ☐ Indication of proposed use of buildings.
- ☐ All off street parking, locations and size of points of entry and exists, loading facilities, internal traffic circulation patterns, location of handicapped parking and handicapped access to building(s).
- ☐ Height of all existing and proposed walls and fences and type of construction.
- ☐ Location and type of landscaping.
- ☐ All existing easements (dedicated and prescriptive), irrigation ditches, alleys and street rights of ways. Locations and height of any overhead power and communication and transmission lines, and all utility easements which may affect the property.
- ☐ All existing and proposed improvements. Improvements include: curb and gutter, sidewalks, sanitary and storm sewer lines, fire hydrants and driveway approaches. Grades must be shown for curb and gutter, sidewalks, sanitary and storm sewer lines.
- ☐ Location, type, lighting and size of proposed and existing signs.
- ☐ Location, type and size of proposed and existing light poles.
- ☐ A method for controlling storm drainage so that storm runoff will not enter adjoining property must be shown.
- ☐ One copy of a current county ownership plat showing the property and adjacent properties.
- ☐ Approval letter from Weber Fire District (801-782-3580).
- ☐ Approval letter from Bona Vista Water (801-621-0474).

If any of the above information is not being provided please indicate reasoning:

Approval letter from Bona Vista Water is not needed due to no proposed water connections.

Answer the following questions as applicable: (Attach additional paper if needed.)

1. State in detail what is intended to be done on or with the property? _____

Tesla is proposing to expand the existing parking area to provide EV charging as an accessory use to the existing multi-use fueling station and quick service restaurant.

2. How will the proposed use be compatible with existing surrounding uses, buildings, and structures, when considering traffic generation, parking, building design, location and landscaping?

The use of the parcel is not proposed to change. Tesla should be considered compatible as a fueling station for electric vehicles similar to the existing petroleum fueling station.

Signature of Applicant:

Applicant acknowledges they are responsible for all engineering fees associated with this application.

In issuing this application the signer(s) certifies the information provided is correct and they agree to the conditions set by the members of the planning commission and city council. **All** property owners must sign below in the presence of the city recorder/clerk or have their signatures notarized in order to be valid.


Owner Signature


Print Name

Owner Signature

Print Name

I/We authorize _____ to act as my/our agent in all matters relating to this application.
(Print name)

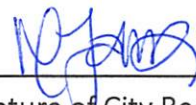
Owner Signature

Print Name

Owner Signature

Print Name

Authorized Agent Signature


Signature of City Recorder/Clerk
(Not Required if Notarized)

State of Utah)

§

Count of _____)

On this _____ day of _____, in the year _____, before me _____,
a notary public, personally appeared _____, proved
on the basis of satisfactory evidence to be the person(s) whose name(s) (is/are) subscribed to this instrument,
and acknowledge (he/she/they) executed the same. Witness my hand and official seal.

NOTARY PUBLIC

State of Utah)

§

County of _____)

On this _____ day of _____, in the year _____, before me _____, a notary public, personally appeared _____, proved on the basis of satisfactory evidence to be the person(s) whose name(s) (is/are) subscribed to this instrument, and acknowledge (he/she/they) executed the same. Witness my hand and official seal.

NOTARY PUBLIC**For City Use:**

Fee received by: A. Zweifel Date received: 9.6.2023
Receipt number: 2.013471 Cash/Check (circle one) (cc)
Date site plan received: 9.5.2023 (Building permit) Received by: Nate
Date met with city engineer: _____ Signed: _____
Date engineer approved plan: _____ Signed: _____
Date planning commission approved: _____
Date city council approved (conditional use permit only): _____

MEMORANDUM



CONSULTING ENGINEERS

TO: Farr West City Planning Commission and City Council

FROM: Matt Robertson, P.E.
City Engineer

RE: **TESLA CHARGING STATION SITE PLAN**
Site Plan Review

Date: December 11, 2023

Our office has completed a review of the site plan for the Tesla Charging Station located at 1750 West 2700 North (behind the Subway and Wendy's buildings). The project includes about 14,000 SF of asphalt and 3,100 SF of landscaping between the new parking lot and the Subway parking lot. We recommend approval of the site plan with the following comments:

1. A Long-Term Stormwater Management Agreement will need to be signed and recorded on the property to ensure that the private, on-site stormwater system is maintained and to give the City permission to inspect the system.
2. A pre-construction conference with the Developer and their Contractor should be held with the City and utility providers prior to beginning any construction.

Please let me know if you have any further questions.

TESLA



FARR WEST, UT

TRT ID: 27285
SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404



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



Dewberry Engineers Inc.
990 SOUTH BROADWAY
SUITE 400
DENVER, CO 80209-4275
PHONE: 303.825.1802



11/30/23

MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

SITE INFORMATION	APPLICABLE CODES	PROJECT DESCRIPTION	STRUCTURAL DESIGN CRITERIA	DRAWING INDEX																																																					
PROPOSED TESLA EV SITE ADDRESS: 1750 W 2700 N FARR WEST, UT 84404 PROPERTY OWNER: RICHARD L MILLER PROPERTIES LLC 2455 W MAIN ST TREMONTON, UT 84337 PARCEL ID: PARCEL ID: 19-146-0005 POWER COMPANY: ROCKY MOUNTAIN POWER BRIAN HERRSCHER (385) 249-4790 brian.herrscher@pacifiCorp.com WORK ORDER: TBD COUNTY: WEBER COUNTY LATITUDE*: 41° 18' 26.92" N LONGITUDE*: 112° 01' 18.85" W *BASED ON GOOGLE EARTH CONTACT ENGINEER: STEPHEN STOUT DEWBERRY ENGINEERS INC. 973.434.1354 sstout@Dewberry.com	ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: UTAH BUILDING & ENERGY CODES, CONSISTENT WITH THE FOLLOWING CODES: BUILDING CODE 2018 OF UTAH. COMMERCIAL ENERGY CONSERVATION CODE 2018 OF UTAH. NATIONAL ELECTRICAL CODE 2020 OF UTAH. CITY CODE OF FARR WEST, UT ORD. 2023-02, PASSED 02-02-2023 AND RES. 2023-01, PASSED 01-19-2023. IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.	- INSTALL PAD MOUNTED UTILITY TRANSFORMER - PAVE ±14,050 SF PARKING AREA - INSTALL (1) TESLA STANDALONE SUPERCHARGER CABINET - INSTALL (4) TESLA STANDALONE CHARGE POSTS - INSTALL (2) TESLA PRE-ASSEMBLED SUPERCHARGER UNITS - INSTALL (1) 2500A, 277/480V SWITCHBOARD - INSTALL (4) WASTE MANAGEMENT BINS - INSTALL (3) 20' LIGHT POST W/ DUAL-HEADED LIGHT FIXTURE - PROVISIONS FOR (2) FUTURE TESLA PRE-ASSEMBLED SUPERCHARGER UNITS	WIND DESIGN DATA: - ULTIMATE WIND SPEED = 115 MPH - OCCUPANCY CATEGORY: II - WIND IMPORTANCE FACTOR: I = 1.0 - WIND EXPOSURE CATEGORY: C SEISMIC DESIGN DATA: - OCCUPANCY CATEGORY: II - SEISMIC IMPORTANCE FACTOR: I = 1.0 - SITE CLASS: D (ASSUMED) - MAPPED SPECTRAL RESPONSE COEFFICIENTS: S₁ = 1.235 S₂ = 0.828 - DESIGN SPECTRAL RESPONSE COEFFICIENTS: S₁ = 0.447 S₂ = 0.462 - SEISMIC DESIGN CATEGORY: D - ASSUMED SOIL PROPERTIES: - ALLOWABLE BEARING PRESSURE: 2,000 PSF - ALLOWABLE LATERAL BEARING PRESSURE: 150 PSF/FT	<table><thead><tr><th>SHT. NO.</th><th>SHEET TITLE</th></tr></thead><tbody><tr><td>T-1</td><td>TITLE SHEET</td></tr><tr><td>GN-1</td><td>GENERAL NOTES I</td></tr><tr><td>GN-2</td><td>GENERAL NOTES II</td></tr><tr><td>C-1</td><td>DETAILED SITE PLAN</td></tr><tr><td>C-2</td><td>EXISTING CONDITIONS PLAN</td></tr><tr><td>C-3</td><td>EQUIPMENT/PARKING PLAN</td></tr><tr><td>C-3A</td><td>LANDSCAPE & IRRIGATION PLAN</td></tr><tr><td>C-4</td><td>GRADING PLAN</td></tr><tr><td>C-5</td><td>AUTOTURN CLEARANCE DIAGRAM</td></tr><tr><td>C-6</td><td>CONSTRUCTION DETAILS I</td></tr><tr><td>C-7</td><td>CONSTRUCTION DETAILS II</td></tr><tr><td>C-8</td><td>CONSTRUCTION DETAILS III</td></tr><tr><td>C-9</td><td>CONSTRUCTION DETAILS IV</td></tr><tr><td>C-10</td><td>CONSTRUCTION DETAILS V</td></tr><tr><td>C-11</td><td>EXISTING DRAINAGE PLAN</td></tr><tr><td>C-11.1</td><td>EXISTING DRAINAGE CALCULATIONS</td></tr><tr><td>C-12</td><td>PROPOSED DRAINAGE PLAN</td></tr><tr><td>C-12.1</td><td>PROPOSED DRAINAGE CALCULATIONS</td></tr><tr><td>C-12.2</td><td>STORMWATER MANAGEMENT DETAILS I</td></tr><tr><td>C-12.3</td><td>STORMWATER MANAGEMENT DETAILS II</td></tr><tr><td>E-1</td><td>ELECTRICAL ONE-LINE DIAGRAM</td></tr><tr><td>E-2</td><td>ELECTRICAL DETAILS</td></tr><tr><td>E-3</td><td>UTILITY DETAILS</td></tr><tr><td>E-4</td><td>ARC FLASH LABELS & BREAKER SETTINGS</td></tr><tr><td>G-1</td><td>GROUNDING SCHEMATIC & DETAILS</td></tr></tbody></table>	SHT. NO.	SHEET TITLE	T-1	TITLE SHEET	GN-1	GENERAL NOTES I	GN-2	GENERAL NOTES II	C-1	DETAILED SITE PLAN	C-2	EXISTING CONDITIONS PLAN	C-3	EQUIPMENT/PARKING PLAN	C-3A	LANDSCAPE & IRRIGATION PLAN	C-4	GRADING PLAN	C-5	AUTOTURN CLEARANCE DIAGRAM	C-6	CONSTRUCTION DETAILS I	C-7	CONSTRUCTION DETAILS II	C-8	CONSTRUCTION DETAILS III	C-9	CONSTRUCTION DETAILS IV	C-10	CONSTRUCTION DETAILS V	C-11	EXISTING DRAINAGE PLAN	C-11.1	EXISTING DRAINAGE CALCULATIONS	C-12	PROPOSED DRAINAGE PLAN	C-12.1	PROPOSED DRAINAGE CALCULATIONS	C-12.2	STORMWATER MANAGEMENT DETAILS I	C-12.3	STORMWATER MANAGEMENT DETAILS II	E-1	ELECTRICAL ONE-LINE DIAGRAM	E-2	ELECTRICAL DETAILS	E-3	UTILITY DETAILS	E-4	ARC FLASH LABELS & BREAKER SETTINGS	G-1	GROUNDING SCHEMATIC & DETAILS	
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ZONING INFORMATION PERMITTING JURISDICTION: CITY OF FARR WEST APN: 19-146-0005		CONTRACTOR NOTE CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.																																																							

AERIAL MAP

LOCATION MAP

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS		
REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:
FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR(S) OR SUB-CONTRACTOR(S) – CIVIL CONTRACTOR AND/OR ELECTRICIAN CONTRACTOR
PROJECT OWNER/CONSTRUCTION MANAGER – TESLA
PROJECT HOST – LEGAL PROPERTY OWNER
ENGINEER – DEWBERRY ENGINEERS INC.
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT OWNER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE INSTALLATION AS INDICATED ON THE DRAWINGS FOR A FULLY FUNCTIONAL CHARGING STATION AND COMPLETE PROJECT.
6. THE SUB-CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON DRAWINGS, THE GENERAL CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE PROJECT ENGINEER. ONLY WRITTEN APPROVALS SHALL BE DEEMED TO CONFIRM ANY SUCH CHANGES AS BEING APPROVED.
8. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE. ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT UNIQUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK.
9. THE GENERAL CONTRACTOR SHALL REVIEW ROUTING OF CONDUIT, POWER AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING PLAN DRAWING. THE GENERAL CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER AND PROJECT HOST.
10. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE PROJECT HOST. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF GENERAL CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.
12. APPLICABLE BUILDING CODES:
THE GENERAL CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
THE GENERAL CONTRACTOR WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION
13. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.
14. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
15. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER GENERAL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S).
16. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
17. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND GENERAL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S) TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
19. THE GENERAL CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
20. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE PROJECT HOST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
21. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
22. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A-10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
23. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE PROJECT OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
24. GENERAL CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES AND ALL SPECIFIED CLOSE-OUT DOCUMENTATION TO THE PROJECT OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
25. THE GENERAL CONTRACTOR SHALL LEAVE THE WORK AREA AND SURROUNDING PREMISES IN A CLEAN CONDITION.
26. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
27. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.

SITE WORK NOTES:

PART 1 – GENERAL

- 1.1 REFERENCES:
A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION–CURRENT EDITION).
B. AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS)
C. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
D. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
- 1.2 INSPECTION AND TESTING:
A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE GENERAL CONTRACTOR.
B. ALL WORK SHALL BE INSPECTED AND VERIFIED FOR CONFORMANCE AND RELEASED BY THE ENGINEER WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE GENERAL CONTRACTOR(S) RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
- 1.3 SITE MAINTENANCE AND PROTECTION:
A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
B. AVOID DAMAGE AND TAKE PROTECTIVE MEASURES TO THE SITE AND TO EXISTING FACILITIES, IMPROVEMENTS, STRUCTURES, PAVEMENTS, CURBS, AND LANDSCAPING DESIGNATED TO REMAIN. ANY DAMAGED PART SHALL BE REPAIRED AT SUB-CONTRACTOR(S) EXPENSE TO THE SATISFACTION OF THE PROJECT HOST.
C. KEEP SITE FREE OF ALL PONDING OR STANDING WATER.
D. PROVIDE EROSION CONTROL MEASURES, IF REQUIRED, SHALL BE IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
F. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUB-CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE GENERAL CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
G. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE PROJECT OWNER AND/OR LOCAL UTILITIES.
H. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE PROJECT HOST OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE PROJECT HOST AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
I. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE PROJECT HOST AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
J. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
K. THE GENERAL CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, RUBBISH, DEBRIS, STUMPS, STICKS, AND STONES.
L. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH DEBRIS FROM THE SITE ON A DAILY BASIS.
M. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT TREES, VEGETATION, AND ROOT SYSTEMS DURING CONSTRUCTION.
N. CONTRACTOR TO COORDINATE POST CONSTRUCTION LANDSCAPING FINISHES WITH OWNER AND TESLA.

PART 2 – PRODUCTS

- 2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

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

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

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

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

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

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

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

PART 3 – EXECUTION

- 3.1 GENERAL:
A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF A RAIN EVENT, NO SEDIMENT WILL LEAVE THE WORK SITE.
B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR UNDESIRABLE MATERIALS.

- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH GRANULAR FILL.

- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.

- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE ENGINEER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.

- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

- J. DURING EXCAVATION, THE SUB-CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.

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

3.2 BACKFILL:

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

- H. SCARIFY THE EXISTING SOILS TO A DEPTH OF 6" AND RE-COMPACT USING A VIBRATING PLATE OR TAMPER, ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.

- I. PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE IN 12" LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.

3.3 TRENCHING EXCAVATION:

- J. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.

- K. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.

- L. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR MATERIAL.

3.4 TRENCHING BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.

- B. NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF BACKFILLING.

- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.

- D. PLACE GRANULAR BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS AND HAUNCHES.

- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.

- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 12-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.

- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.

- H. PER LOCAL REGULATORY AUTHORITY AND AS APPLICABLE, ALL TRENCHES IN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL MATCH SURROUNDING TOPOGRAPHY AND STRUCTURES.

- B. UTILIZE GRANULAR FILL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.

- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL OR BETTER CONDITION.

- D. AREAS OF THE PROJECT HOST'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR PARKING/DRIVING AREAS SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.

3.6 ASPHALT PAVING ROAD:

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



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11/30/23

MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS

REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

GENERAL NOTES I

SHEET NUMBER

GN-1

ELECTRICAL NOTES:

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

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

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

UL – UNDERWRITERS LABORATORIES

NEC – NATIONAL ELECTRICAL CODE

NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.

OSHA – OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

SBC – STANDARD BUILDING CODE

NFPA – NATIONAL FIRE PROTECTION ASSOCIATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

25. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
26. CONNECTORS FOR POWER CONDUCTORS: SUB-CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
27. THE SUB-CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC".
28. WHEN DIRECTIONAL BORING IS REQUIRED, SUB-CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
29. ALL BOLTS SHALL BE STAINLESS STEEL.
30. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE SUBCONTRACTOR SHOULD BE NEW AND UNUSED.
31. PER NEC 625.22 – THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (SUPERCHARGER CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO ENSURE THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE OR CURRENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TESLA VEHICLE. THERE IS A 'HANDSHAKE' BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING. VOLTAGE IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE READING FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT BEGINS TO FLOW. IF AT ANY POINT IN THIS PROCESS A FAULT IS DETECTED, THE CHARGING WILL STOP IMMEDIATELY. WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ANY FAULT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS OF DETECTION. BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM OVER-CURRENT OR OVER-VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING FUSES ALSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

REINFORCED CONCRETE NOTES:

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

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

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

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

5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:
REINFORCEMENT:
NORMAL WEIGHT AGGREGATE:
WATER:
ADMIXTURES:

ASTM C 150, TYPE I
ASTM A 615, GRADE 60
ASTM C 33
DRINKABLE
NON-CHLORIDE CONTAINING

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

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

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

CONCRETE CAST AGAINST EARTH:

CONCRETE EXPOSED TO EARTH OR WEATHER:

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

3 IN.

#6 AND LARGER
#5 AND SMALLER & WWF

2 IN.
1-1/2 IN.

SLAB AND WALL
BEAMS AND COLUMNS

3/4 IN.
1-1/2 IN.

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

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

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

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

13. DO NOT WELD OR TACKWELD REINFORCING STEEL.

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

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

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

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

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

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

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

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

22. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.
- TRAFFIC MANAGEMENT NOTES:
1. ALL TEMPORARY CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.

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

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

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

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

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

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

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

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

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

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION AT THIS LOCATION. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS, DRUMS, CONES, OR OTHER TRAFFIC CONTROL DEVICES TO DIRECT VEHICLES AND PEDESTRIANS AROUND THE WORK ZONE.
- HORIZONTAL DIRECT DRILLING NOTES:
1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING AND INSTALLING UNDERGROUND UTILITIES USING THE DIRECTIONAL BORING (HORIZONTAL DIRECTIONAL DRILLING, HDD) METHOD OF INSTALLATION, ALSO COMMONLY REFERRED TO AS GUIDED HORIZONTAL BORING. THIS WORK SHALL INCLUDE ALL SERVICES, EQUIPMENT, MATERIALS, AND LABOR FOR THE COMPLETE AND PROPER INSTALLATION, TESTING, RESTORATION OF UNDERGROUND UTILITIES AND ENVIRONMENTAL PROTECTION AND RESTORATION.

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

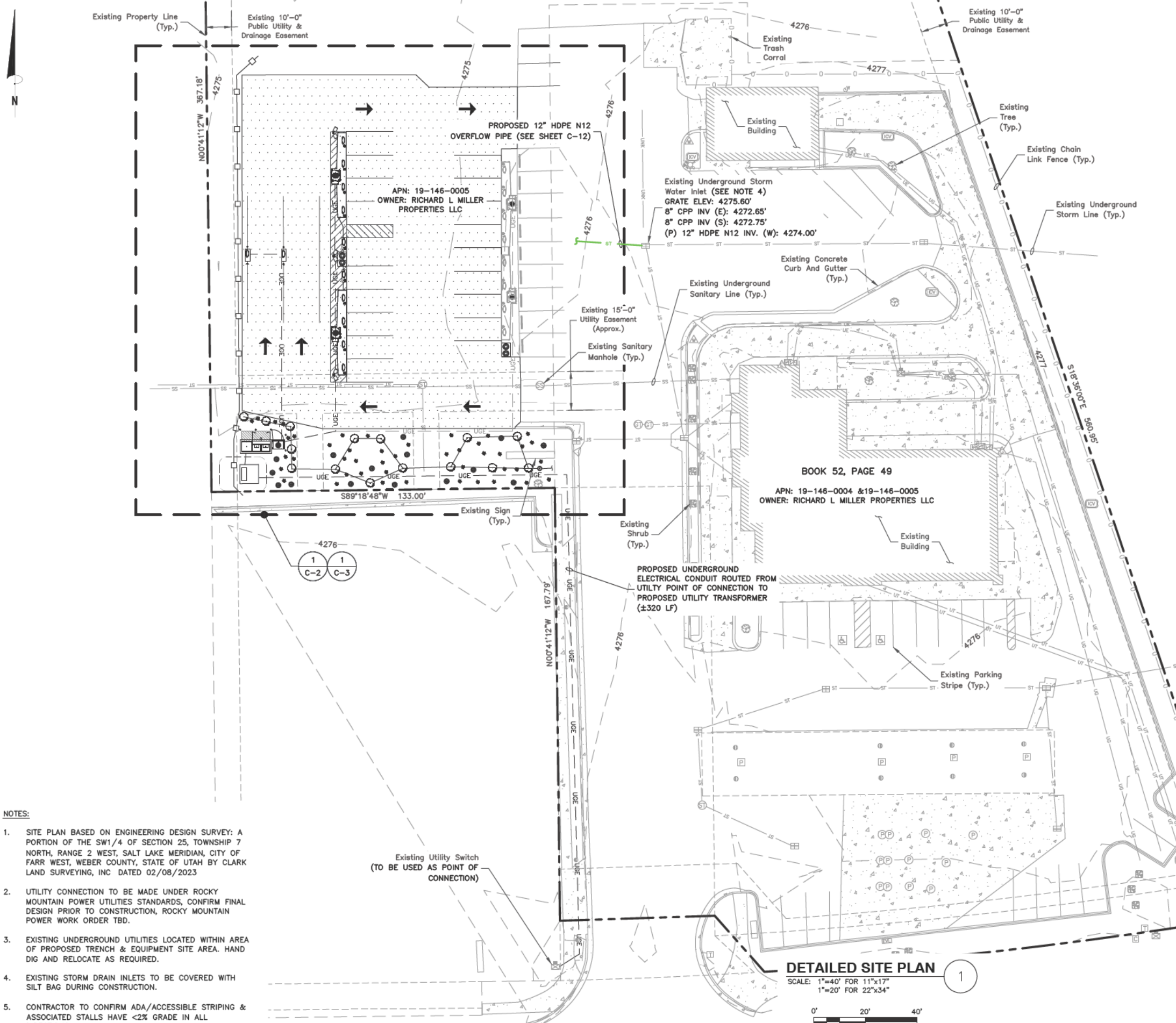
3. ENVIRONMENTAL PROTECTION: CONTRACTOR SHALL PLACE SILT FENCE BETWEEN ALL BORING OPERATIONS AND ANY DRAINAGE, WETLAND, WATERWAY OR OTHER AREA DESIGNATED FOR SUCH PROTECTION BY CONTRACT DOCUMENTS, STATE, FEDERAL AND LOCAL REGULATIONS. ADDITIONAL ENVIRONMENTAL PROTECTION NECESSARY TO CONTAIN ANY HYDRAULIC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

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

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

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

7. RECORD KEEPING: CONTRACTOR SHALL MAINTAIN A DAILY PROJECT LOG OF BORING OPERATIONS AND A GUIDANCE SYSTEM LOG WITH A COPY GIVEN TO ENGINEER AT COMPLETION OF PROJECT. AS-BUILT DRAWINGS SHALL BE CERTIFIED AS TO ACCURACY BY CONTRACTOR.
-
- 3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000
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- Dewberry Engineers Inc.
- 990 SOUTH BROADWAY
SUITE 400
DENVER, CO 80209-4275
PHONE: 303.825.1802
-
- MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202
- DRAWN BY: KFM
- CHECKED BY: SES
- APPROVED BY: MJM/JG
- PROJECT #: 50123704
- JOB #: 50159192
- SUBMITTALS
- | REV. | DATE | DESCRIPTION |
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| 2 | 11/30/23 | CITY COMMENTS |
| 1 | 10/20/23 | CITY COMMENTS |
| 0 | 09/01/23 | ISSUE FOR S&S |
| A | 04/13/23 | FOR REVIEW |
- SITE NAME:
- FARR WEST, UT
(TRT ID: 27285)
- SITE ADDRESS:
- 1750 W 2700 N
FARR WEST, UT 84404
- SHEET TITLE
- GENERAL NOTES II
- SHEET NUMBER
- GN-2



LEGEND

- SITE BENCHMARK
- SANITARY MANHOLE
- GREASE TRAP
- STORM MANHOLE
- STORM INLET (RECTANGLE)
- FIRE HYDRANT
- WATER VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- WATER MANHOLE
- SPRINKLER HEAD / WATER PUMP
- ELECTRIC METER
- ELECTRIC TRANSFORMER
- ELECTRIC CABINET
- ELECTRIC VAULT
- TELEPHONE PEDESTAL
- CABLE TV PEDESTAL
- PETROLEUM PUMP
- PETROLEUM MANHOLE
- GAS METER
- AIR PUMP
- HANDICAP PARKING
- PILLAR
- DECIDUOUS TREE W/ DRIPLINES
- SHRUB
- LANDSCAPED AREA
- BOLLARD
- SIGN
- FENCE GATE
- CHAIN LINK FENCE
- STORM LINE (UNDERGROUND)
- SANITARY LINE (UNDERGROUND)
- GAS LINE (UNDERGROUND)
- ELECTRIC LINE (UNDERGROUND)
- TELEPHONE LINE (UNDERGROUND)
- UNKNOWN LINE (UNDERGROUND)
- CONCRETE AREA

- NOTES:
- SITE PLAN BASED ON ENGINEERING DESIGN SURVEY: A PORTION OF THE SW1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 2 WEST, SALT LAKE MERIDIAN, CITY OF FARR WEST, WEBER COUNTY, STATE OF UTAH BY CLARK LAND SURVEYING, INC DATED 02/08/2023
 - UTILITY CONNECTION TO BE MADE UNDER ROCKY MOUNTAIN POWER UTILITIES STANDARDS, CONFIRM FINAL DESIGN PRIOR TO CONSTRUCTION, ROCKY MOUNTAIN POWER WORK ORDER TBD.
 - EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
 - EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG DURING CONSTRUCTION.
 - CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.

DETAILED SITE PLAN

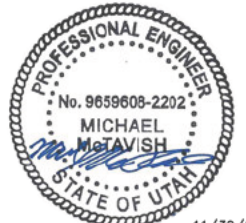
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1"=20' FOR 22"x34"



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PHONE: 303.825.1802



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UTAH LICENSE No. 9658608-2202

DRAWN BY:	KFM
CHECKED BY:	SES
APPROVED BY:	MJM/JG
PROJECT #:	50123704
JOB #:	50159192

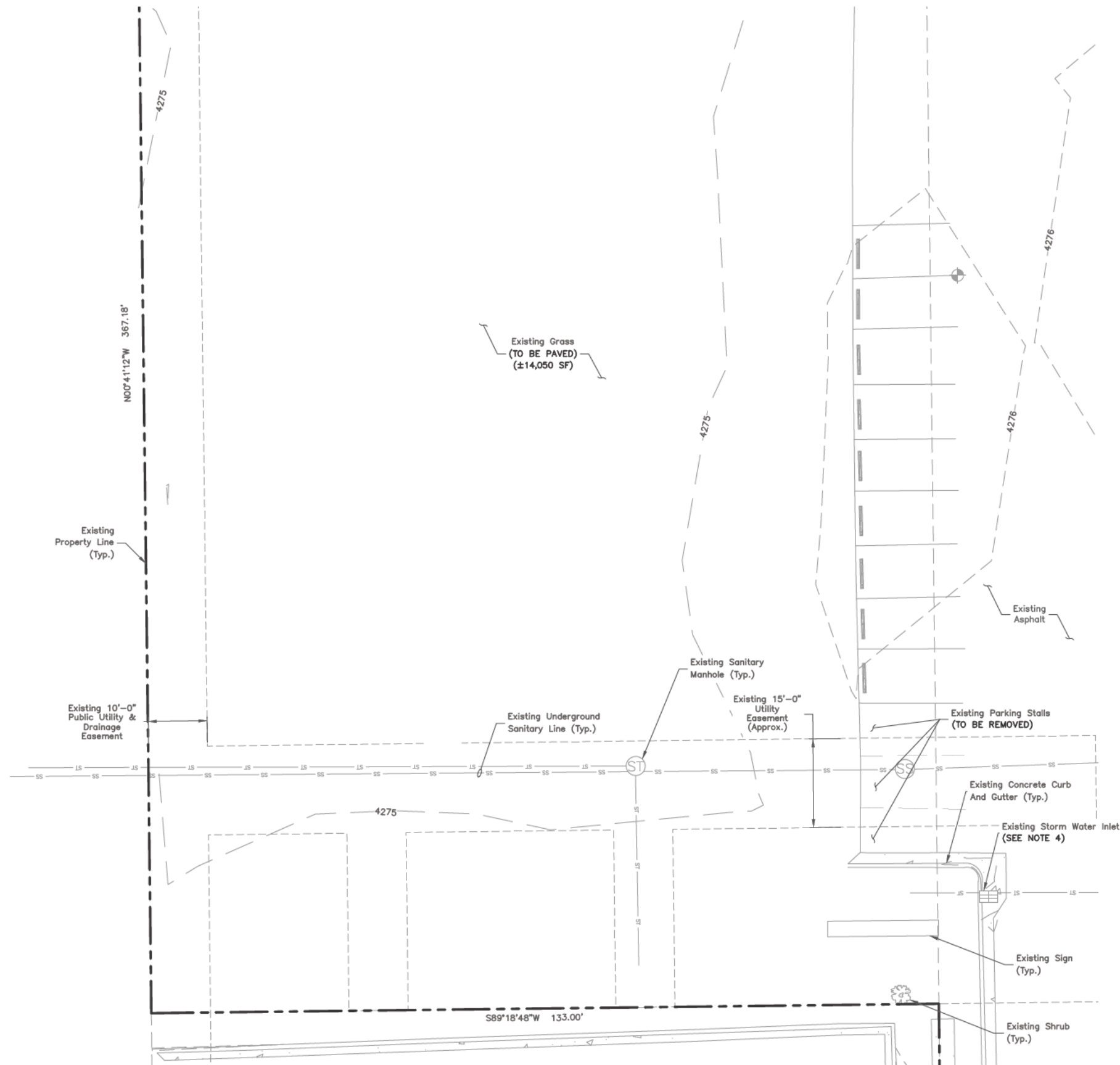
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SITE NAME:
FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE
DETAILED SITE PLAN

SHEET NUMBER
C-1



NOTES:

1. SITE PLAN BASED ON ENGINEERING DESIGN SURVEY: A PORTION OF THE SW1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 2 WEST, SALT LAKE MERIDIAN, CITY OF FARR WEST, WEBER COUNTY, STATE OF UTAH BY CLARK LAND SURVEYING, INC. DATED 02/08/2023.
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5. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.



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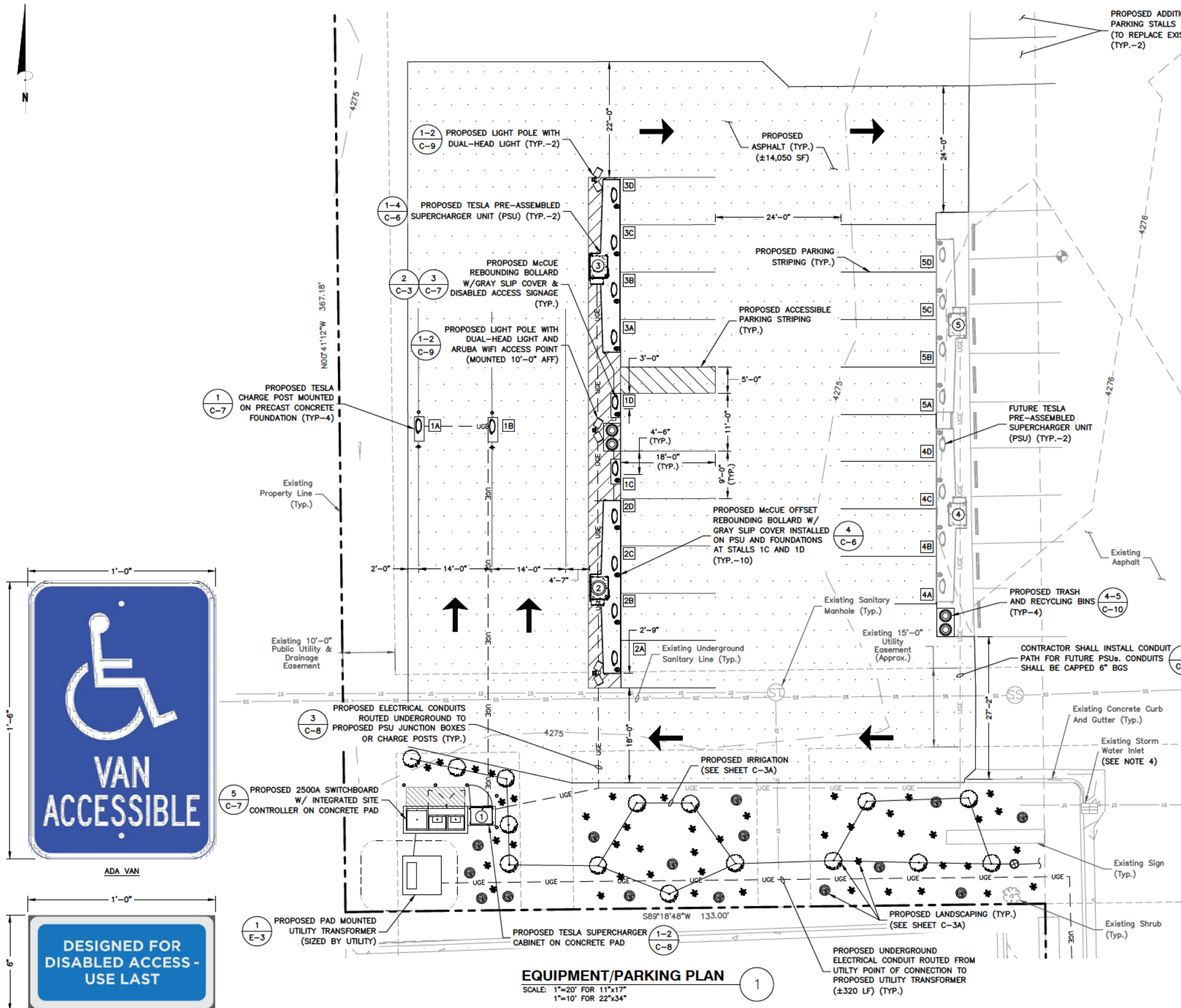
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

EXISTING CONDITIONS
PLAN

SHEET NUMBER

C-2



EQUIPMENT/PARKING PLAN
SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"

LEGEND	
Ⓢ	TESLA SUPERCHARGER #
Ⓢ	TESLA 'STAR CENTER' SUPERCHARGER #
1A	TESLA CHARGE POST

PARKING STALL SCHEDULE	
DESCRIPTION	QUANTITY
EXISTING STALLS (TO BE MODIFIED)	3
PROPOSED TESLA STALLS	12
FUTURE TESLA STALLS	8
ADDITIONAL STANDARD STALLS	2
NET PARKING STALL CHANGE	19

- NOTES:**
- SITE PLAN BASED ON ENGINEERING DESIGN SURVEY: A PORTION OF THE SW1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 2 WEST, SALT LAKE MERIDIAN, CITY OF FARR WEST, WEBER COUNTY, STATE OF UTAH BY CLARK LAND SURVEYING, INC. DATED 02/08/2023.
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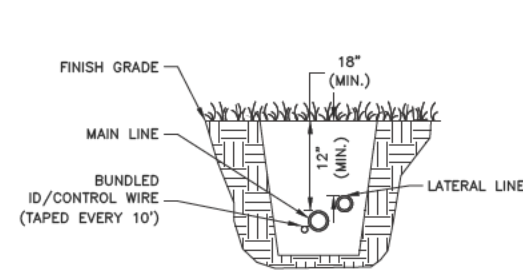
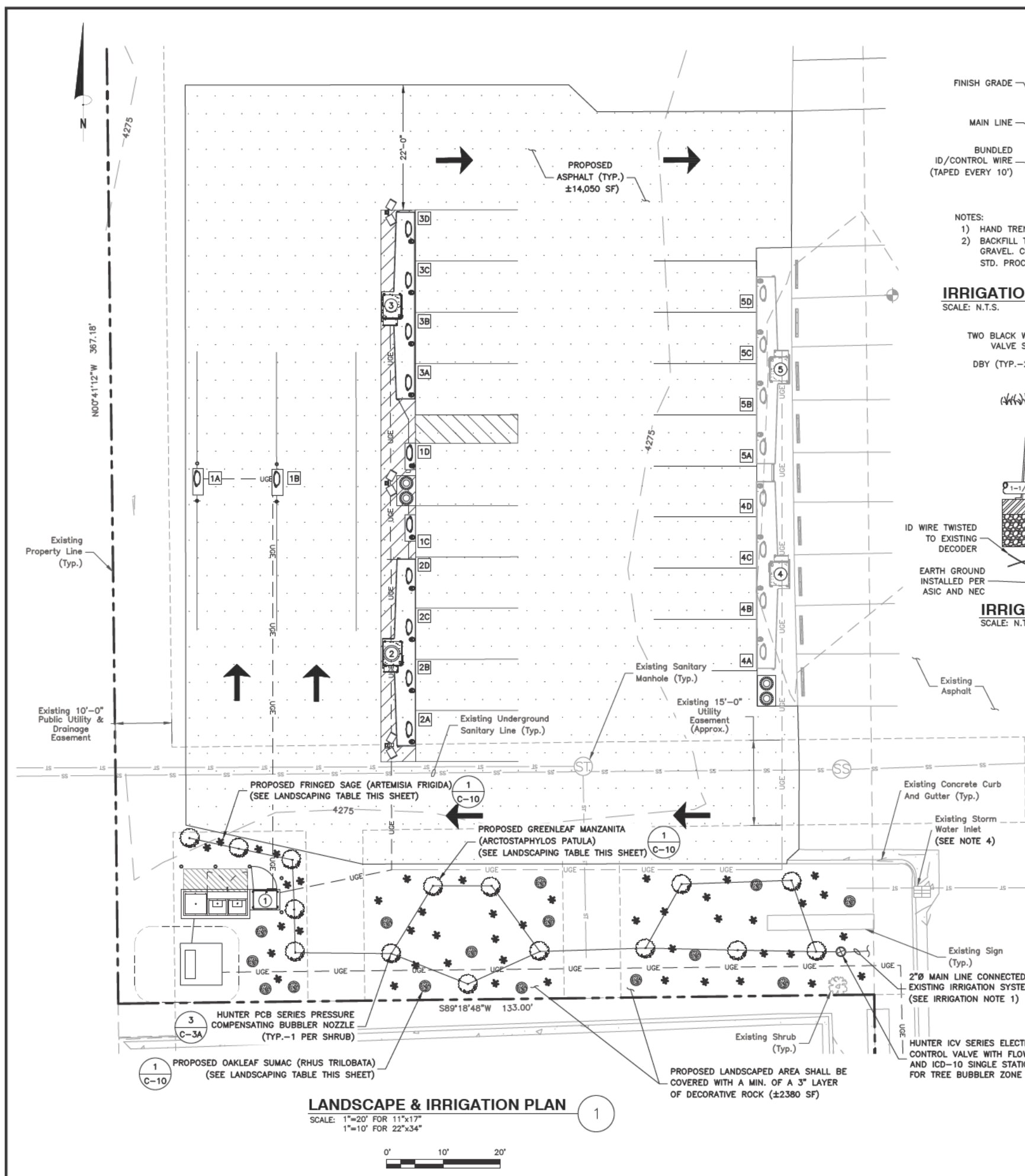
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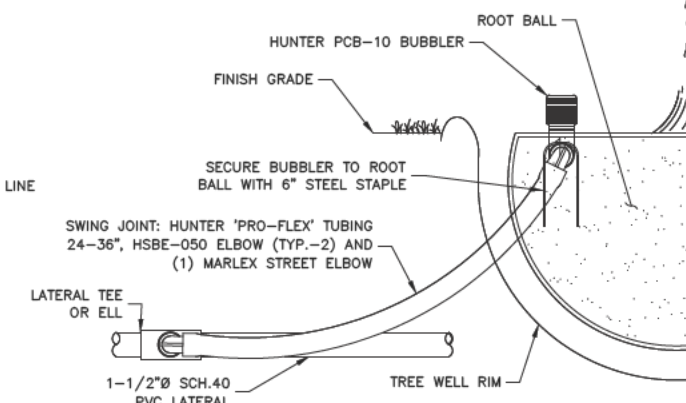
SHEET TITLE
**EQUIPMENT/PARKING
PLAN**

SHEET NUMBER
C-3

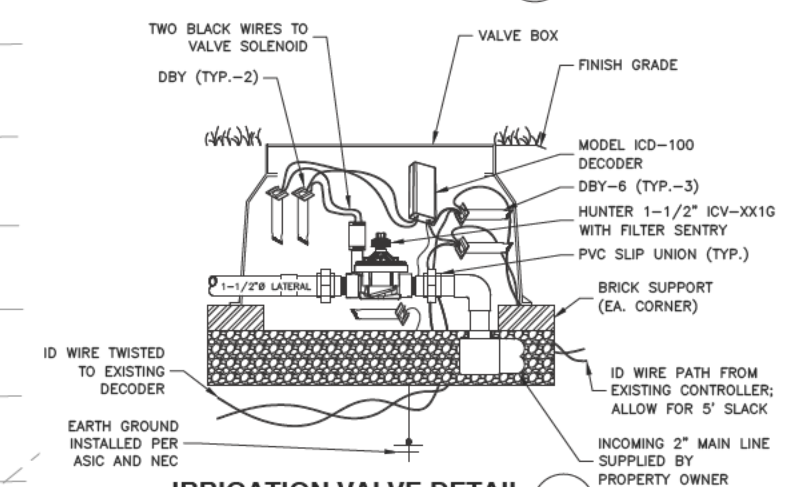


- NOTES:
- 1) HAND TRENCH IN ALL ROOT ZONES
 - 2) BACKFILL TO BE FREE OF ROCKS AND LOOSE GRAVEL. COMPACT IN 6" LIFTS TO 95% MAX STD. PROCTOR DENSITY (ASTM D-698)

IRRIGATION TRENCH DETAIL
SCALE: N.T.S.



TREE BUBBLER DETAIL
SCALE: N.T.S.



IRRIGATION VALVE DETAIL
SCALE: N.T.S.

- LANDSCAPING NOTES:
1. CRITICAL ROOT ZONE: EXTENDS IN ALL DIRECTIONS FROM TRUNK OF TREE TO A DISTANCE EQUAL TO ONE FOOT PER INCH OF TRUNK DIAMETER AT BREAST HEIGHT.
 2. INSTALL ALL TREE PROTECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REMOVE WHEN DIRECTED BY THE ENGINEER. MAINTAIN PROTECTION AT ALL TIMES.
 3. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
 4. ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA. ROOT PRUNING SHALL BE COMPLETED WITH A DOSKO ROOT CUTTER, OR APPROVED EQUAL.
 5. THE CRITICAL ROOT ZONE MAY BE REDUCED, IN THE FIELD, BY A CERTIFIED ARBORIST OF LANDSCAPE ARCHITECT.
 6. ANY TREES OR LANDSCAPING DAMAGED DURING CONSTRUCTION TO BE REPLACED IN KIND BY CONTRACTOR.

- IRRIGATION CONSTRUCTION NOTES:
1. CONTRACTOR SHALL COORDINATE WITH LANDLORD TO TIE PROPOSED IRRIGATION INTO EXISTING AS REQUIRED.
 2. CONTRACTOR SHALL COORDINATE WITH LANDLORD FOR DAMAGED, REPLACED, OR RELOCATED IRRIGATION.
 3. PRIOR TO COMMENCEMENT OF CONSTRUCTION, L.I.C. SHALL CONTACT LOCAL 811 AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
 4. ALL MAIN LINES TO BE INSTALLED 18" MIN BELOW FINISHED GRADE. ALL LATERAL LINES TO BE INSTALLED 12" MIN BELOW FINISHED GRADE.
 5. WITHIN EXISTING ROOT ZONES ONLY HAND TRENCHING SHALL BE PERMITTED. MACHINE TRENCHING PROHIBITED WITHIN EXISTING ROOT ZONES.
 6. ANY LINES ROUTED BENEATH PAVED SURFACES SHALL BE SLEEVED IN SCH. 40 PVC SLEEVES.
 7. VALVE WIRE SHALL BE MINIMUM OF 24V, #14 AWG, SINGLE CONDUCTOR "IRRIGATION VALVE" WIRE U.F. APPROVED FOR DIRECT BURIAL. WIRE SPLICING SHALL INCLUDE DBY CONNECTORS AS RECOMMENDED BY 3M. ALL SPLICES SHALL BE LOCATED IN VALVE BOXES FOR FIELD INSPECTION.
 8. A GROUND ROD SHALL BE INSTALLED WITHIN PROPOSED VALVE BOX FOR DECODER GROUNDING.
 9. PROPOSED VALVE BOX(ES) SHALL BE INSTALLED FLUSH WITH FINISH GRADE.
 10. TREE BUBBLERS DEPICTED ON PLAN WITHOUT LATERAL PIPE FOR CLARITY; REFER TO INSTALLATION DETAIL.
 11. ALL HEADS TO BE INSTALLED 6" MIN. FROM EDGE OF CURBING.
 12. IT IS ASSUMED LANDLORD PROVIDED INCOMING MAINLINE IS EQUIPPED WITH A BACKFLOW PREVENTER. IF NO BACKFLOW PREVENTER IS PRESENT CONTRACTOR SHALL CONTACT CLIENT AND GENERAL CONTRACTOR.

PROPOSED LANDSCAPING TABLE				
SYMBOL	SPECIES	QUANTITY	MIN. SPACING	SIZE
	GREENLEAF MANZANITA (ARCTOSTAPHYLOS PATULA)	15	5'-0" C-C	5-GALLON
	OAKLEAF SUMAC (RHUS TRILOBATA)	15	5'-0" C-C	2-GALLON
	FRINGED SAGE (ARTEMISIA FRIGIDA)	45	2'-0" C-C	1-GALLON

NOTE: ALL LANDSCAPING INSTALLED SHALL BE OF A DROUGHT RESISTANT SPECIES.

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(650) 681-5000

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DENVER, CO 80209-4275
PHONE: 303.825.1802

11/30/23
MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

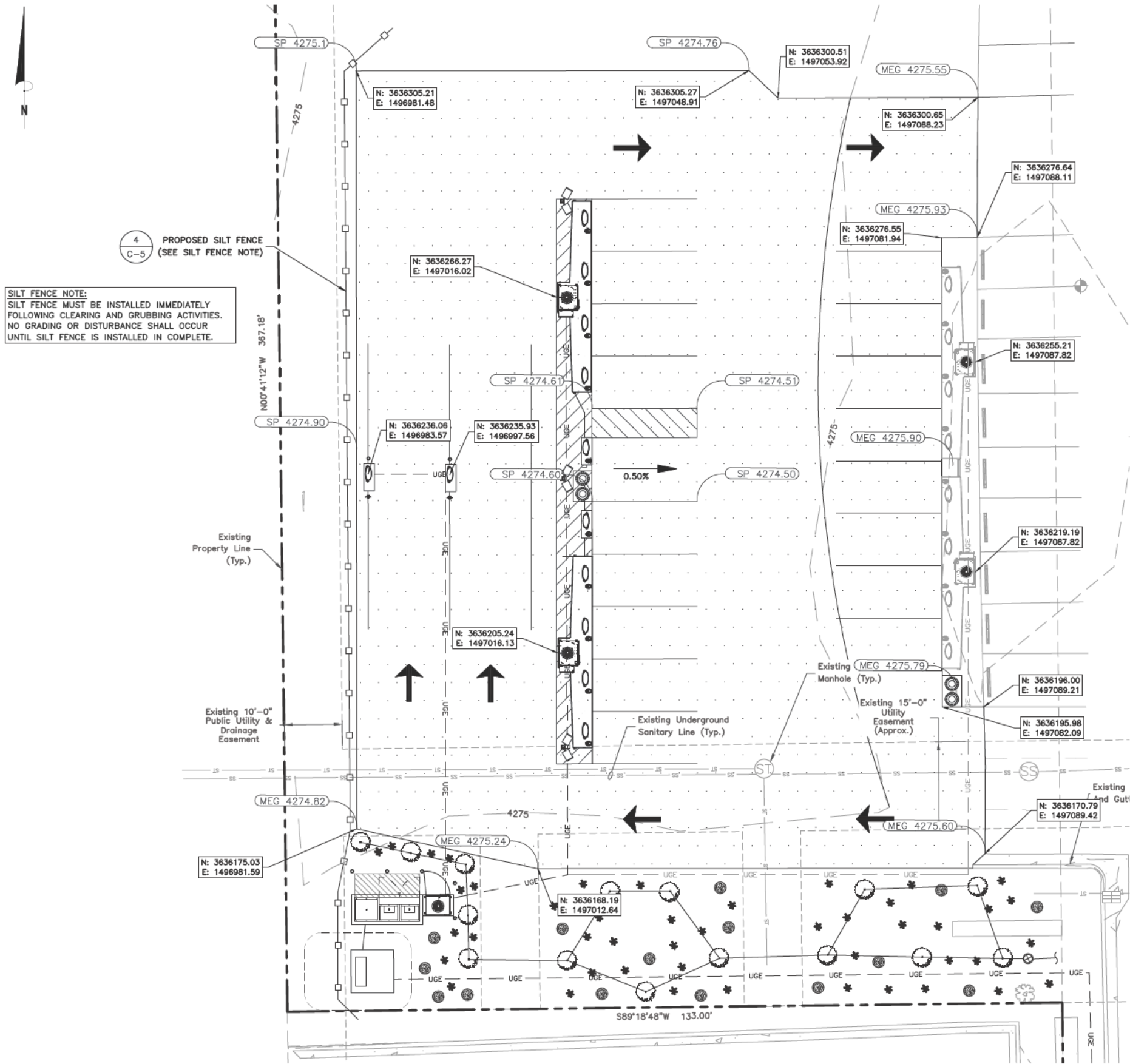
DRAWN BY: KFM
CHECKED BY: SES
APPROVED BY: MJM/JG
PROJECT #: 50123704
JOB #: 50159192

SUBMITTALS		
REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

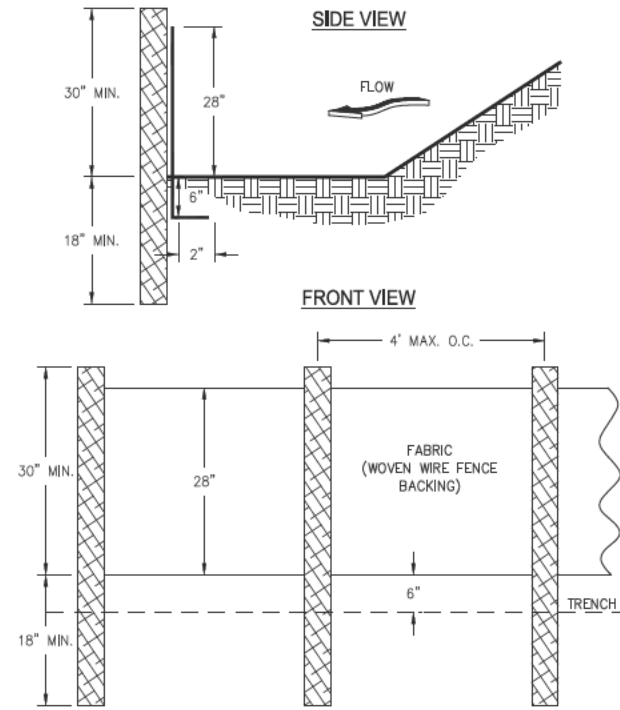
SITE NAME:
FARR WEST, UT
(TRT ID: 27285)
SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE
LANDSCAPE &
IRRIGATION PLAN

SHEET NUMBER
C-3A



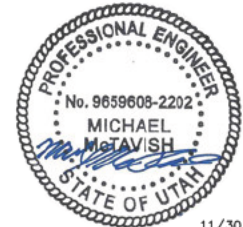
GRADING PLAN
SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"



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UTAH LICENSE No. 9658608-2202

DRAWN BY:	KFM
CHECKED BY:	SES
APPROVED BY:	MJM/JG
PROJECT #:	50123704
JOB #:	50159192

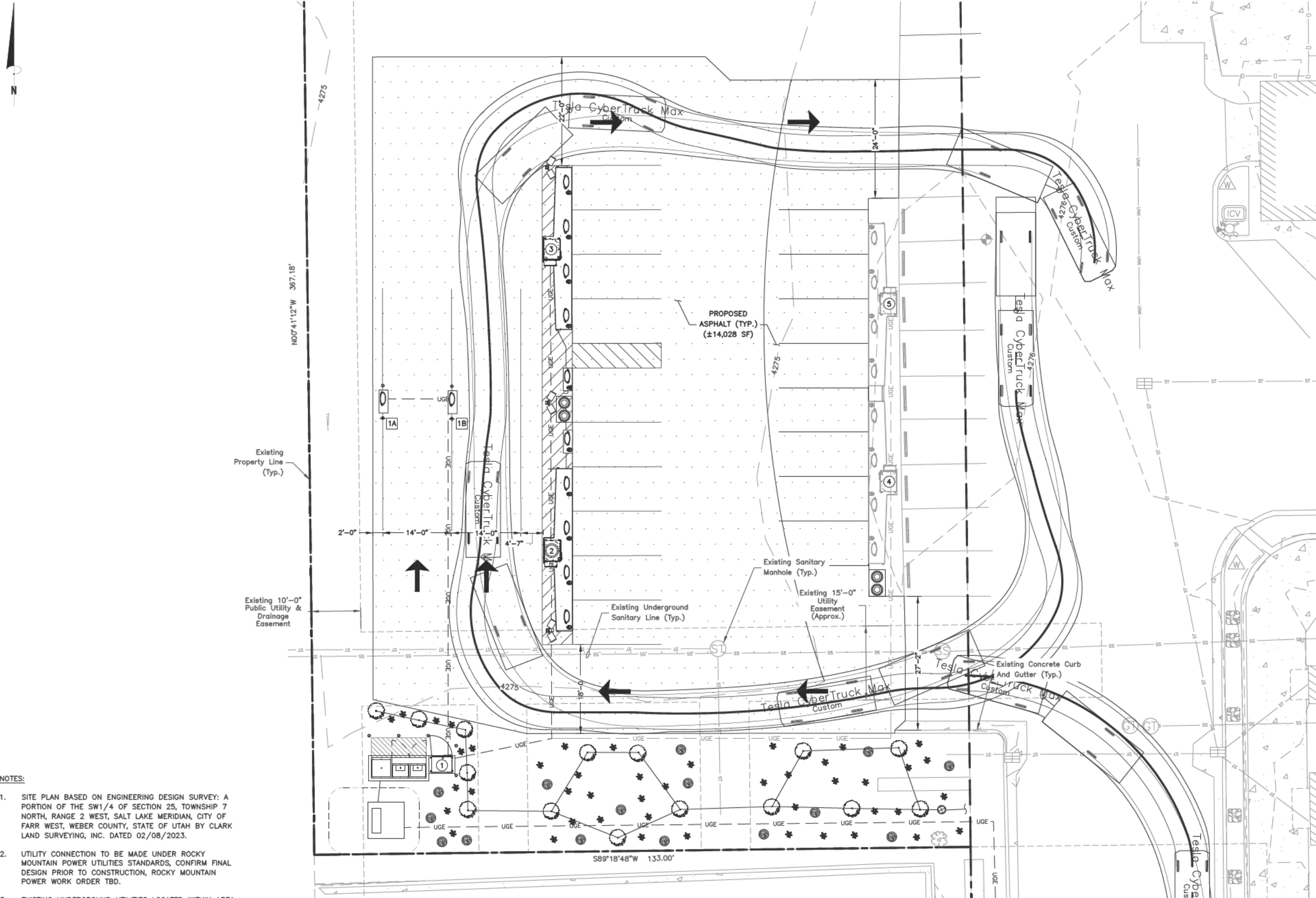
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REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:
FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C-4



- NOTES:
1. SITE PLAN BASED ON ENGINEERING DESIGN SURVEY: A PORTION OF THE SW1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 2 WEST, SALT LAKE MERIDIAN, CITY OF FARR WEST, WEBER COUNTY, STATE OF UTAH BY CLARK LAND SURVEYING, INC. DATED 02/08/2023.
 2. UTILITY CONNECTION TO BE MADE UNDER ROCKY MOUNTAIN POWER UTILITIES STANDARDS, CONFIRM FINAL DESIGN PRIOR TO CONSTRUCTION, ROCKY MOUNTAIN POWER WORK ORDER TBD.
 3. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
 4. EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG DURING CONSTRUCTION.
 5. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.

AUTOTURN CLEARANCE DIAGRAM

SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"



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11/30/23
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UTAH LICENSE No. 9658608-2202

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS

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FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

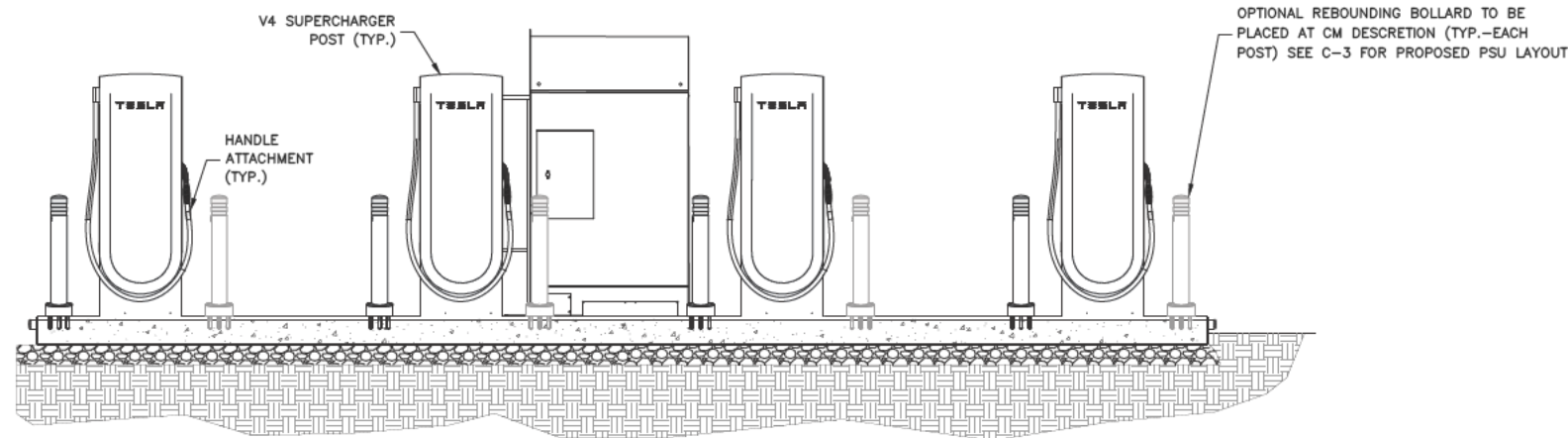
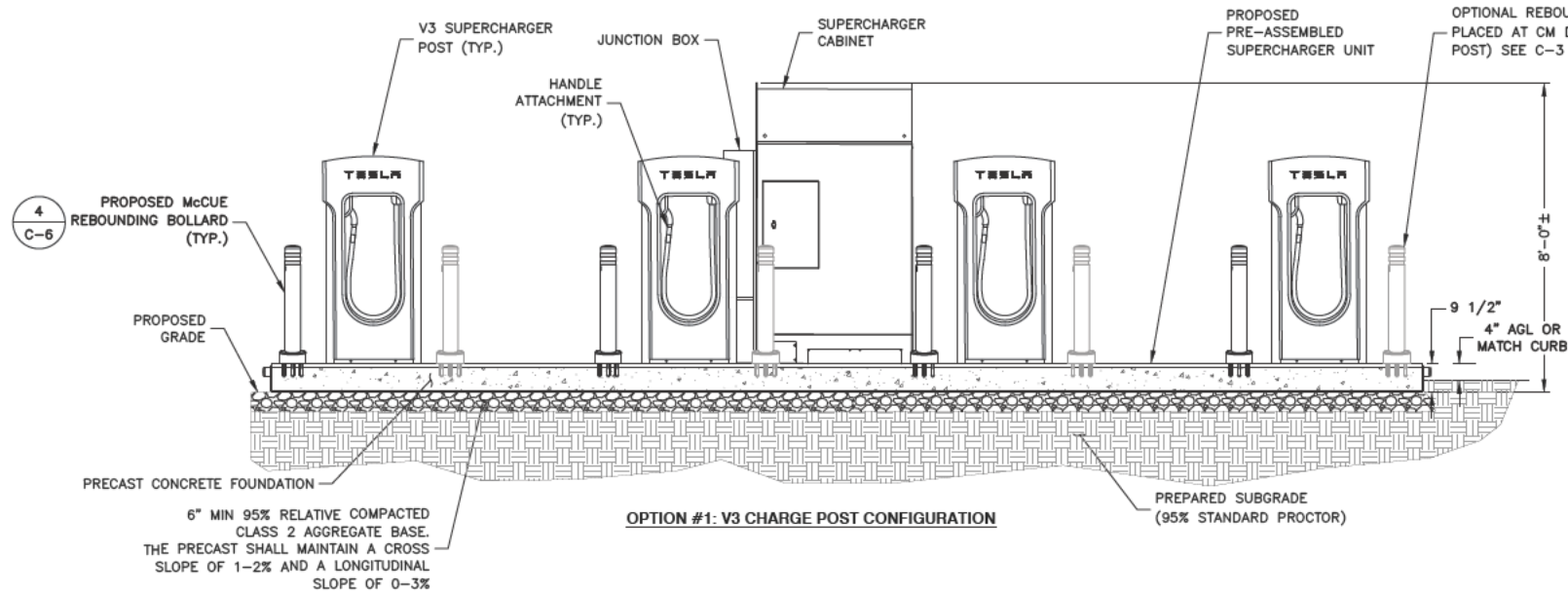
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

AUTOTURN CLEARANCE
DIAGRAM

SHEET NUMBER

C-5

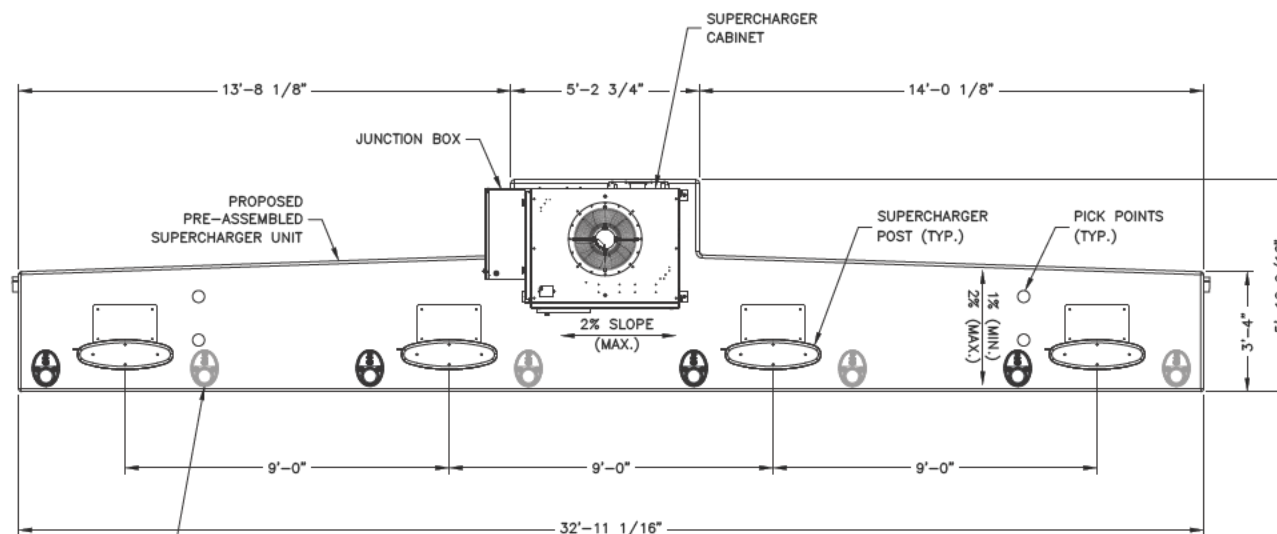


NOTE:

1. FINAL CHARGE POST CONFIGURATION SELECTION DETERMINED BY TESLA DESIGN MANAGER BASED ON AVAILABILITY AT TIME OF CONSTRUCTION.

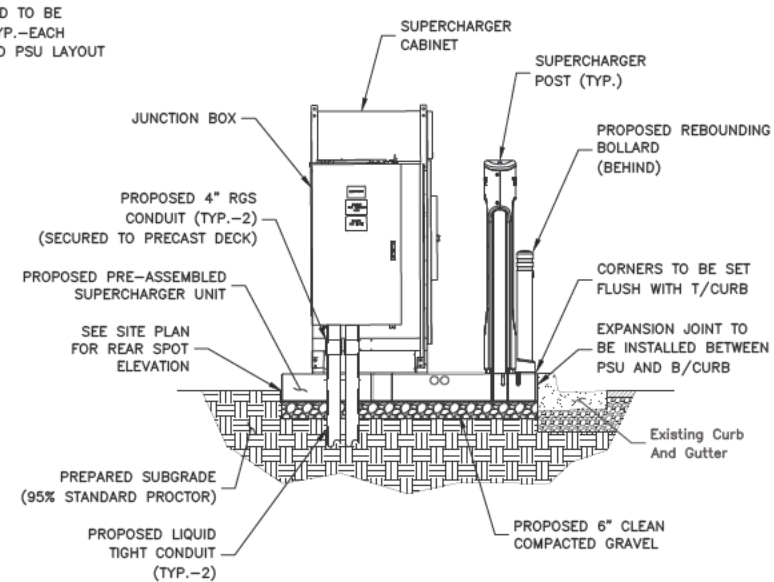
PSU ELEVATIONS

SCALE: N.T.S.



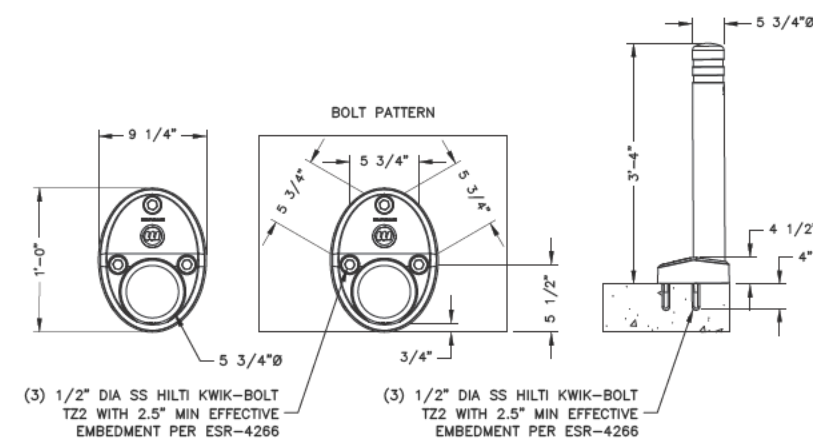
PSU PLAN VIEW

SCALE: N.T.S.



PSU SIDE VIEW

SCALE: N.T.S.



McCUE REBOUNTING BOLLARD ANCHOR

SCALE: N.T.S.



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11/30/23

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UTAH LICENSE No. 9658608-2202

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APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS

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FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

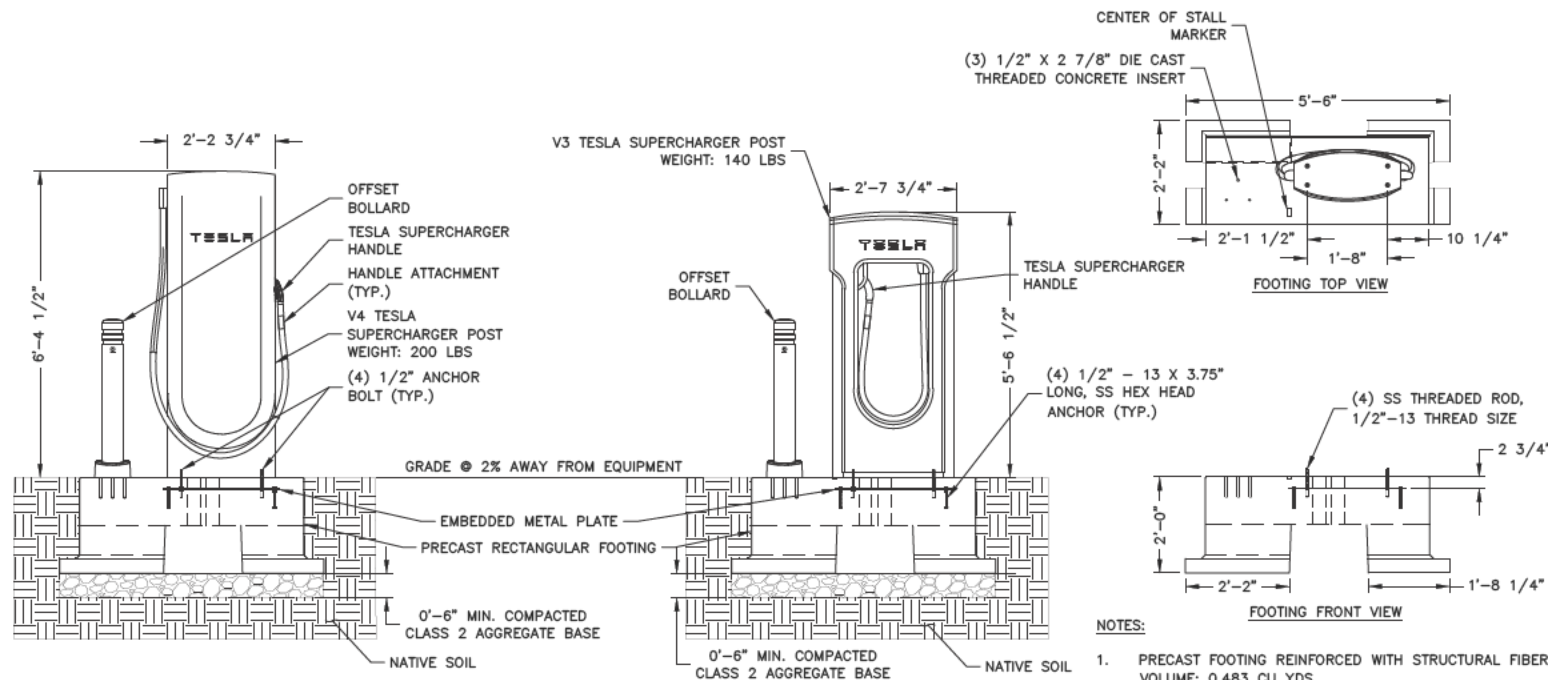
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

CONSTRUCTION
DETAILS I

SHEET NUMBER

C-6



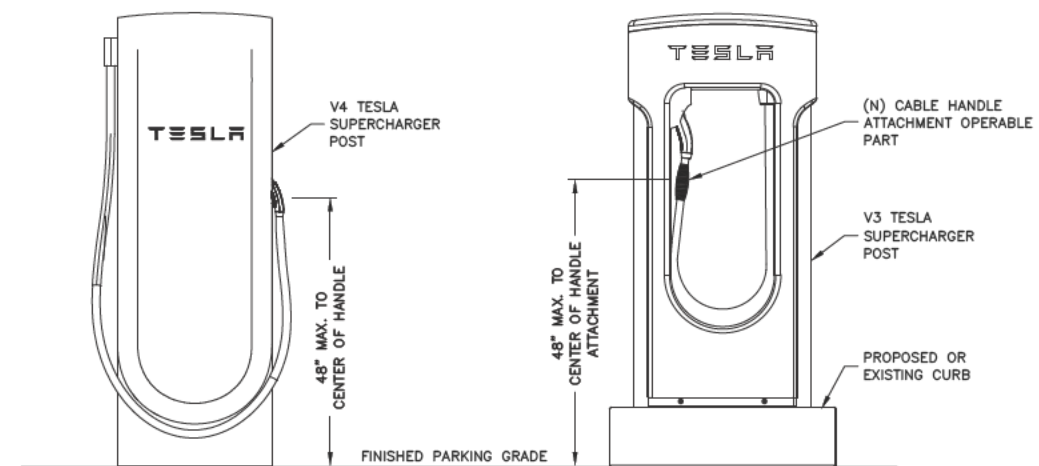
TESLA SUPERCHARGER POST PRECAST FOUNDATION DETAIL

SCALE: N.T.S.

1

NOTES:

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



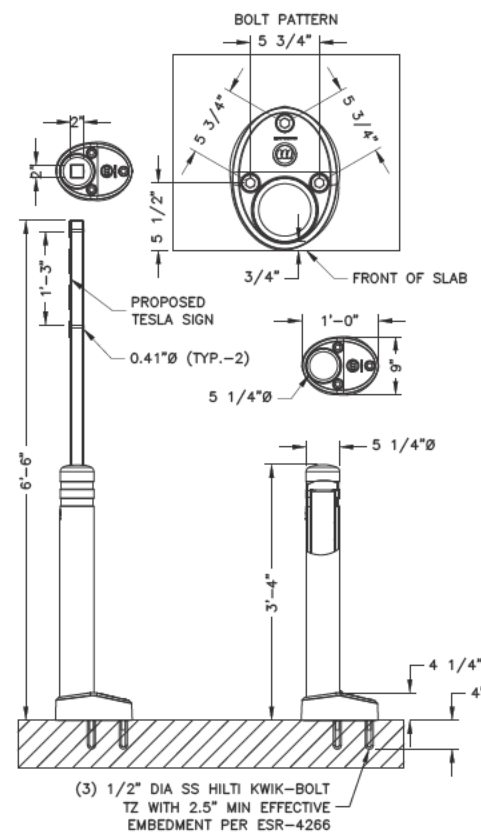
NOTE:

1. 48\"/>

CABLE HANDLE ACCESSIBILITY ATTACHMENT DETAIL

SCALE: N.T.S.

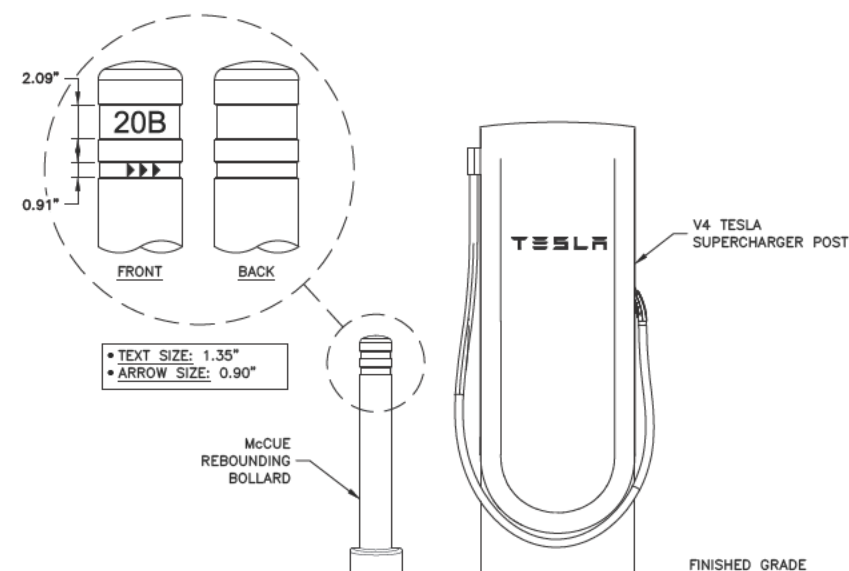
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McCUE REBOUNDING BOLLARD & SIGN

SCALE: N.T.S.

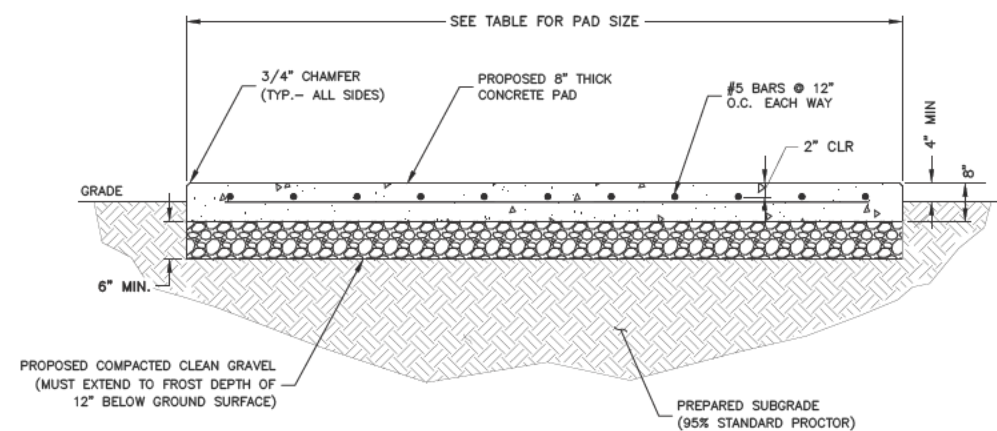
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BOLLARD SIGNAGE ELEVATION DETAIL

SCALE: N.T.S.

4



CONCRETE PAD DIMENSIONS					
PAD TYPE	CONCRETE	L	W	t (THICKNESS)	AREA
SWITCHGEAR*	4000 PSI	12'-6"	5'-3"	8"	66.0 S.F.

NOTE:

1. SEE CONCRETE NOTES ON SHEET GN-2.

* SWITCHGEAR ANCHORS SHALL BE: (12) 1/2\"/>

CAST IN PLACE CONCRETE PAD

SCALE: N.T.S.

5



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MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS

REV.	DATE	DESCRIPTION
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SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

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FARR WEST, UT 84404

SHEET TITLE

CONSTRUCTION
DETAILS II

SHEET NUMBER

C-7



		TYPE				FRONT ROW		FLOR	
Housing	Watts	T2	T3	T4	T5	F8	F1	F10	F35
SM	50	6.675	6.675	6.390	6.675	6.675	6.675	6.435	6.350
SM	75	12.284	12.284	12.161	12.284	12.284	12.284	11.976	11.779
SM	100	16.720	16.720	16.562	16.720	16.720	16.720	16.105	15.811
MD	125	21.136	21.136	20.906	21.136	21.136	21.136	20.541	20.239
MD	150	24.937	24.937	24.633	24.937	24.937	24.937	23.665	23.345
MD	200	30.990	30.990	30.670	30.990	30.990	30.990	28.951	28.743
LG	250	38.025	38.025	37.584	38.025	38.025	38.025	35.054	34.747
LG	300	44.905	44.905	44.466	44.905	44.905	44.905	41.527	40.945
JXL	400	62.341	62.341	61.731	62.341	62.341	62.341	58.471	58.044

Typical values output (3.12%) at 125V [34] under 3500 ambient temperature.

Lumen Multipliers

Allows to calculate the actual kwh output for your application

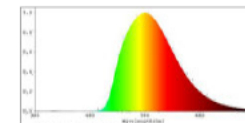
COLOR TEMP	
CCT	Multiplier
5000	1.000
4000	1.000
3500	0.980
3000 ²	—
2800 ² Turk-Ready	0.876
2200 ²	0.780

Bug Ratings

HOUSING	WAFIS	OPTIC	BUR DATE	OPTIC	BUR DATE	OPTIC	BUR DATE	OPTIC	BUR DATE
SM	90	TS	25-05-01	TS	25-05-01	TS	25-05-01	TS	25-05-01
SM	71	TS	25-05-02	TS	25-05-02	TS	25-05-02	TS	25-05-02
MD	120	TS	25-05-02	TS	25-05-02	TS	25-05-02	TS	25-05-02
MD	190	TS	25-05-03	TS	25-05-03	TS	25-05-03	TS	25-05-03
MD	200	TS	25-05-03	TS	25-05-03	TS	25-05-03	TS	25-05-03
LG	200	TS	25-05-03	TS	25-05-03	TS	25-05-03	TS	25-05-03
LG	300	TS	25-05-03	TS	25-05-03	TS	25-05-03	TS	25-05-03
JAL	400	TS	25-05-04	TS	25-05-03	TS	25-05-03	TS	25-05-03

Turtle-Friendly Lighting Available (2800K CCT)

Our 2800K CCT option provides an optimized spectrum for turtles, based on long-wavelength lighting with minimal to zero amount of blue content.



ORDERING

[illegible][illegible]

ORDERING EXAMPLES

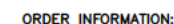
Standard: LL-SL1-MD-150WD-50K-TS-UNV-G2-8RN-8A

With Options: LL-BL1-MD-152WD-SBK-T3-UNV-G2-SRN-3A-ULTRADH20-G3

info@narsied.co

ORDER INFORMATION:

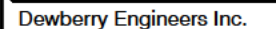
LINMORE LED LL-SL1-SM-75WD-40K-T3-UNV



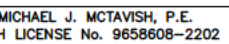
ORDER INFORMATION:
RSS-11-420-DR-BZ - 20FT POLE

LIGHT FIXTURE AND POLE DETAIL

SCALE: N.T.S.



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PHONE: 303.825.1802



DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS		
REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

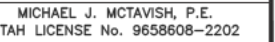
CONSTRUCTION DETAILS IV

SHEET NUMBER

C-9



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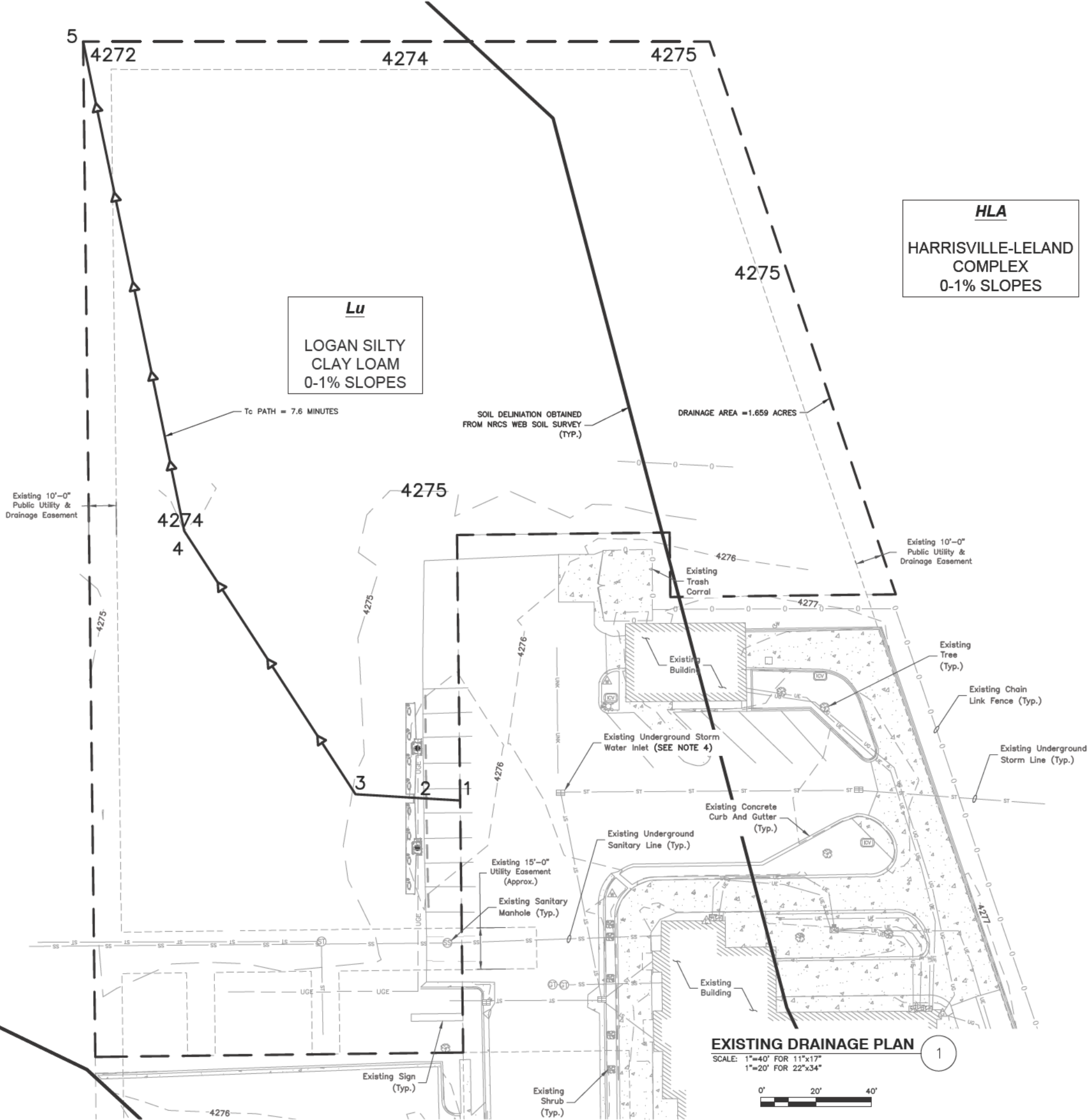
JOB #: 50159192

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2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

C-10



EV.	DATE	DESCRIPTION
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MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

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SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

EXISTING DRAINAGE
PLAN

SHEET NUMBER

C-11

Farr West EXISTING DRAINAGE
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Type III 24-hr 10-YEAR Rainfall=2.14"
Printed 8/24/2023
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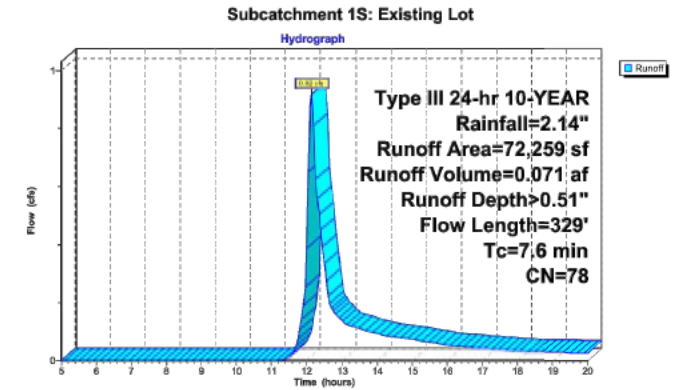
Summary for Subcatchment 1S: Existing Lot

Runoff = 0.92 cfs @ 12.12 hrs, Volume= 0.071 af, Depth> 0.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YEAR Rainfall=2.14"

Area (sf)	CN	Description
70,189	77	Brush, Fair, HSG D
2,070	96	Paved parking, HSG D
72,259	78	Weighted Average
70,189		97.14% Pervious Area
2,070		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	14	0.0300	0.61		Sheet Flow, 1-2
					Smooth surfaces n= 0.011 P2= 1.00"
0.3	25	0.0400	1.40		Shallow Concentrated Flow, 2-3
					Short Grass Pasture Kv= 7.0 fps
2.8	110	0.0090	0.66		Shallow Concentrated Flow, 3-4
					Short Grass Pasture Kv= 7.0 fps
4.1	180	0.0110	0.73		Shallow Concentrated Flow, 4-5
					Short Grass Pasture Kv= 7.0 fps
7.6	329	Total			



Farr West EXISTING DRAINAGE
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Type III 24-hr 25-YEAR Rainfall=2.49"
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Page 8

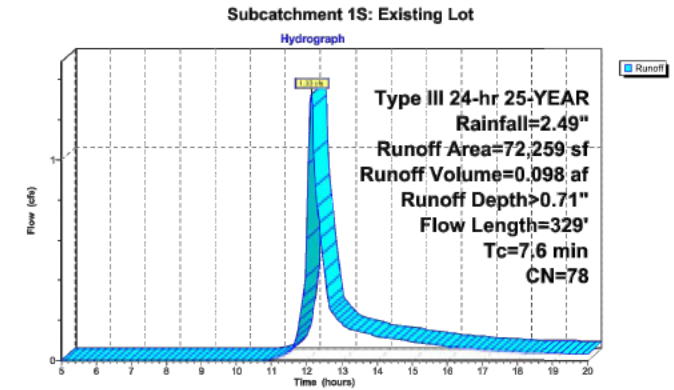
Summary for Subcatchment 1S: Existing Lot

Runoff = 1.33 cfs @ 12.12 hrs, Volume= 0.098 af, Depth> 0.71"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YEAR Rainfall=2.49"

Area (sf)	CN	Description
70,189	77	Brush, Fair, HSG D
2,070	96	Paved parking, HSG D
72,259	78	Weighted Average
70,189		97.14% Pervious Area
2,070		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	14	0.0300	0.61		Sheet Flow, 1-2
					Smooth surfaces n= 0.011 P2= 1.00"
0.3	25	0.0400	1.40		Shallow Concentrated Flow, 2-3
					Short Grass Pasture Kv= 7.0 fps
2.8	110	0.0090	0.66		Shallow Concentrated Flow, 3-4
					Short Grass Pasture Kv= 7.0 fps
4.1	180	0.0110	0.73		Shallow Concentrated Flow, 4-5
					Short Grass Pasture Kv= 7.0 fps
7.6	329	Total			



Farr West EXISTING DRAINAGE
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Type III 24-hr 100-YEAR Rainfall=3.04"
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Page 14

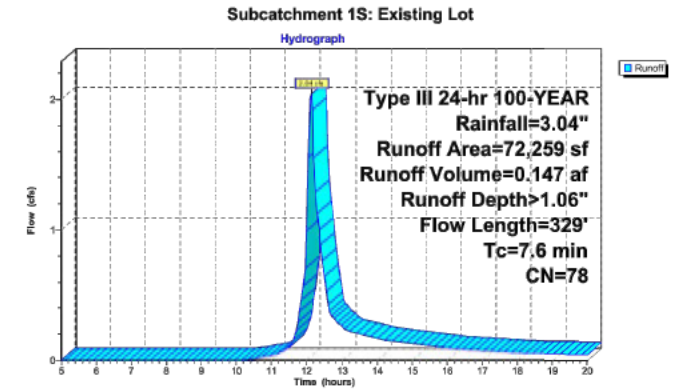
Summary for Subcatchment 1S: Existing Lot

Runoff = 2.04 cfs @ 12.12 hrs, Volume= 0.147 af, Depth> 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-YEAR Rainfall=3.04"

Area (sf)	CN	Description
70,189	77	Brush, Fair, HSG D
2,070	96	Paved parking, HSG D
72,259	78	Weighted Average
70,189		97.14% Pervious Area
2,070		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	14	0.0300	0.61		Sheet Flow, 1-2
					Smooth surfaces n= 0.011 P2= 1.00"
0.3	25	0.0400	1.40		Shallow Concentrated Flow, 2-3
					Short Grass Pasture Kv= 7.0 fps
2.8	110	0.0090	0.66		Shallow Concentrated Flow, 3-4
					Short Grass Pasture Kv= 7.0 fps
4.1	180	0.0110	0.73		Shallow Concentrated Flow, 4-5
					Short Grass Pasture Kv= 7.0 fps
7.6	329	Total			



EXISTING RUNOFF CALCS

SCALE: N.T.S.

1



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



Dewberry Engineers Inc.

990 SOUTH BROADWAY
SUITE 400
DENVER, CO 80209-4275
PHONE: 303.825.1802



MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS

REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

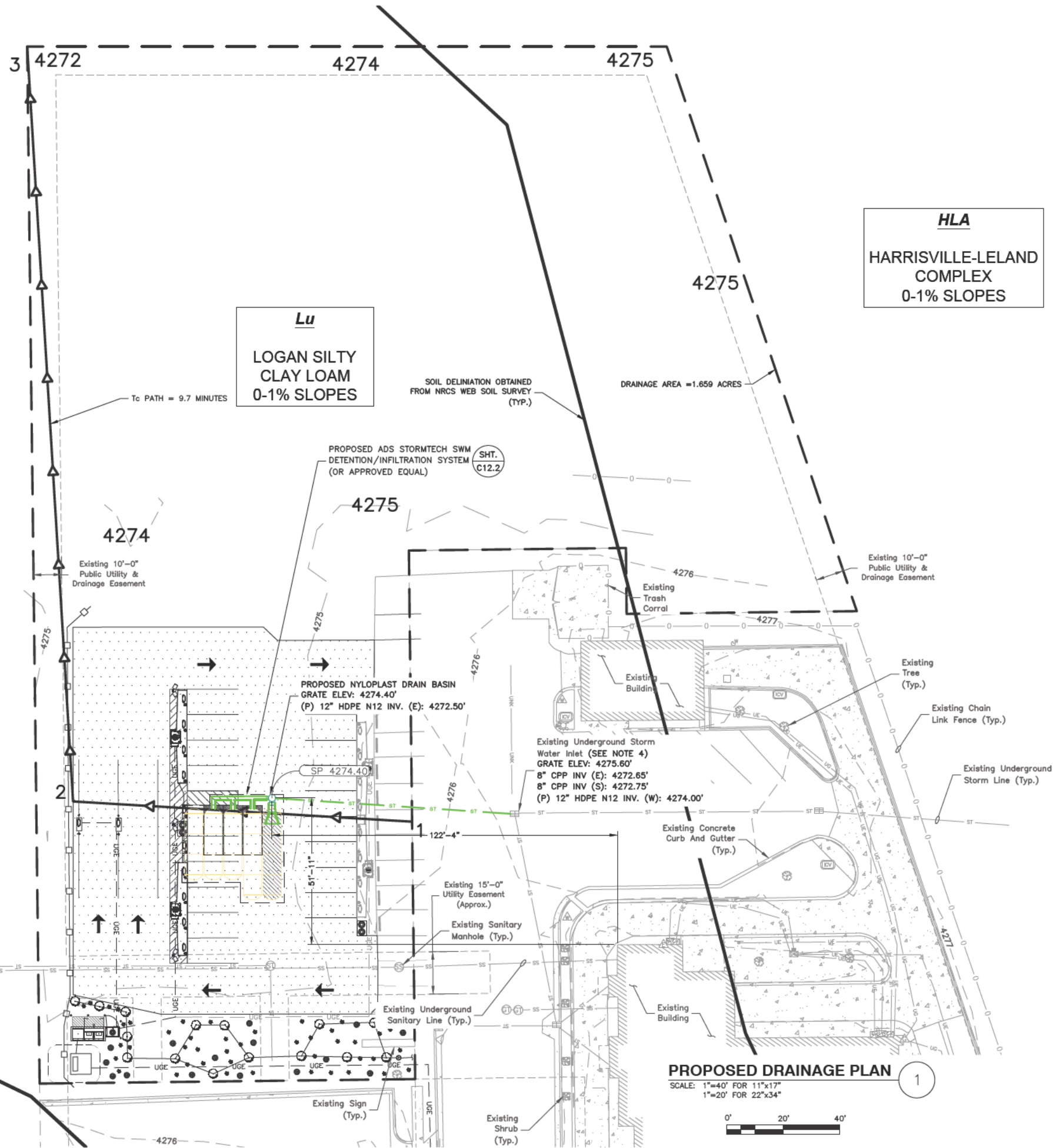
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

EXISTING DRAINAGE
CALCULATIONS

SHEET NUMBER

C-11.1



KaB
KIDMAN FIN
SANDY LOAM
1-3% SLOPES

Lu
LOGAN SILTY
CLAY LOAM
0-1% SLOPES

HLA
HARRISVILLE-LELAND
COMPLEX
0-1% SLOPES



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(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

PROPOSED DRAINAGE
PLAN

SHEET NUMBER

C-12

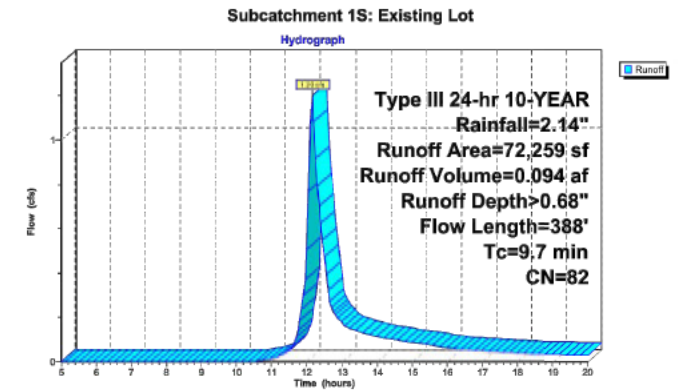
Summary for Subcatchment 1S: Existing Lot

Runoff = 1.20 cfs @ 12.15 hrs, Volume= 0.094 af, Depth> 0.68"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YEAR Rainfall=2.14"

Area (sf)	CN	Description
56,051	77	Brush, Fair, HSG D
2,070	98	Paved parking, HSG D
13,366	98	Proposed Paved parking, HSG D
772	98	Unconnected roofs, HSG D
72,259	82	Weighted Average
56,051		77.57% Pervious Area
16,208		22.43% Impervious Area
772		4.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	120	0.0200	0.80		Sheet Flow, 1-2
					Smooth surfaces n= 0.011 P2= 1.00"
7.2	268	0.0078	0.62		Shallow Concentrated Flow, 2-3
					Short Grass Pasture Kv= 7.0 fps
9.7	388	Total			



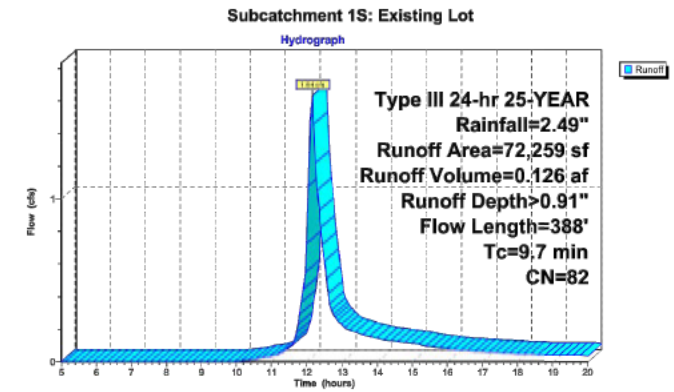
Summary for Subcatchment 1S: Existing Lot

Runoff = 1.64 cfs @ 12.15 hrs, Volume= 0.126 af, Depth> 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YEAR Rainfall=2.49"

Area (sf)	CN	Description
56,051	77	Brush, Fair, HSG D
2,070	98	Paved parking, HSG D
13,366	98	Proposed Paved parking, HSG D
772	98	Unconnected roofs, HSG D
72,259	82	Weighted Average
56,051		77.57% Pervious Area
16,208		22.43% Impervious Area
772		4.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	120	0.0200	0.80		Sheet Flow, 1-2
					Smooth surfaces n= 0.011 P2= 1.00"
7.2	268	0.0078	0.62		Shallow Concentrated Flow, 2-3
					Short Grass Pasture Kv= 7.0 fps
9.7	388	Total			



PROPOSED RUNOFF CALCS

SCALE: N.T.S.

1

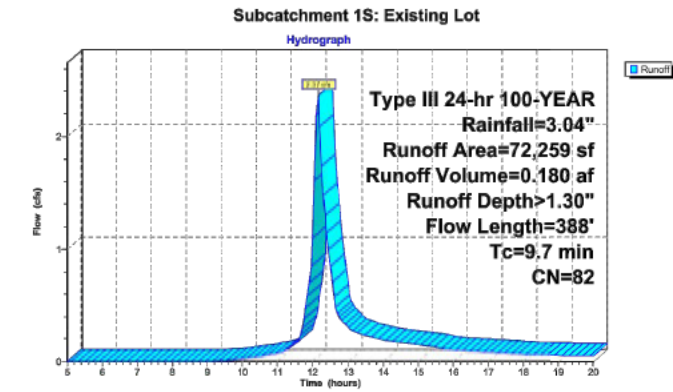
Summary for Subcatchment 1S: Existing Lot

Runoff = 2.37 cfs @ 12.14 hrs, Volume= 0.180 af, Depth> 1.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-YEAR Rainfall=3.04"

Area (sf)	CN	Description
56,051	77	Brush, Fair, HSG D
2,070	98	Paved parking, HSG D
13,366	98	Proposed Paved parking, HSG D
772	98	Unconnected roofs, HSG D
72,259	82	Weighted Average
56,051		77.57% Pervious Area
16,208		22.43% Impervious Area
772		4.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	120	0.0200	0.80		Sheet Flow, 1-2
					Smooth surfaces n= 0.011 P2= 1.00"
7.2	268	0.0078	0.62		Shallow Concentrated Flow, 2-3
					Short Grass Pasture Kv= 7.0 fps
9.7	388	Total			



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11/30/23
MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9658608-2202

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

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FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

PROPOSED DRAINAGE
CALCULATIONS

SHEET NUMBER

C-12.1

[illegible][illegible][illegible][illegible]

11/30/23

MICHAEL J. MCTAVISH, P.E.
UTAH LICENSE No. 9659608-2202

DRAWN BY:	KFM
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SUBMITTALS		
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A	04/13/23	FOR REVIEW

SITE NAME:
FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE
STORMWATER
MANAGEMENT DETAILS I

SHEET NUMBER
C-12.2

[illegible]



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11/30/23

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SUBMITTALS

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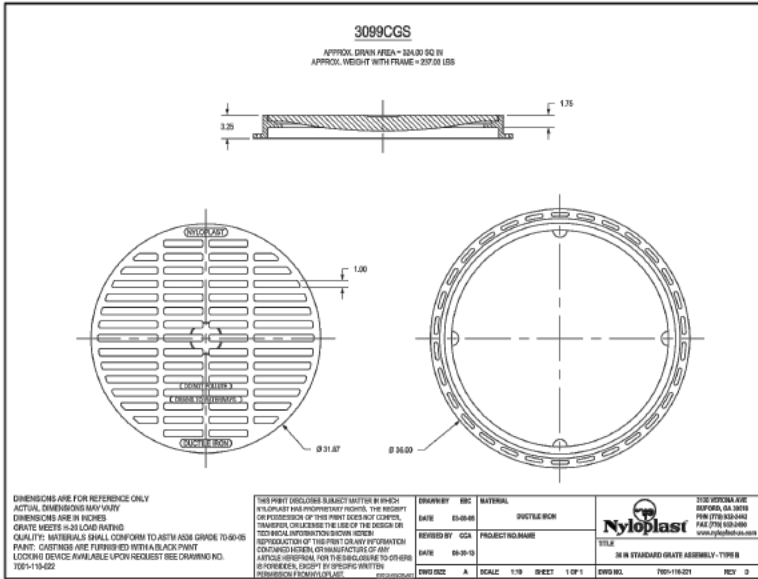
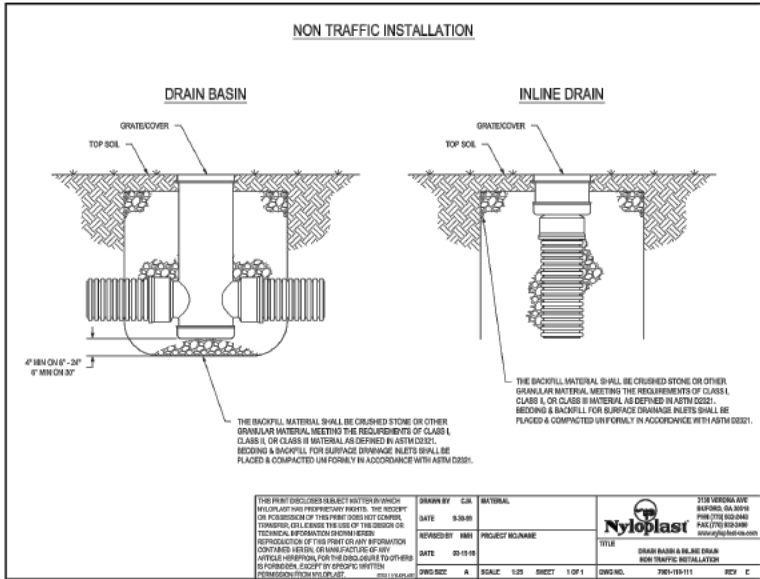
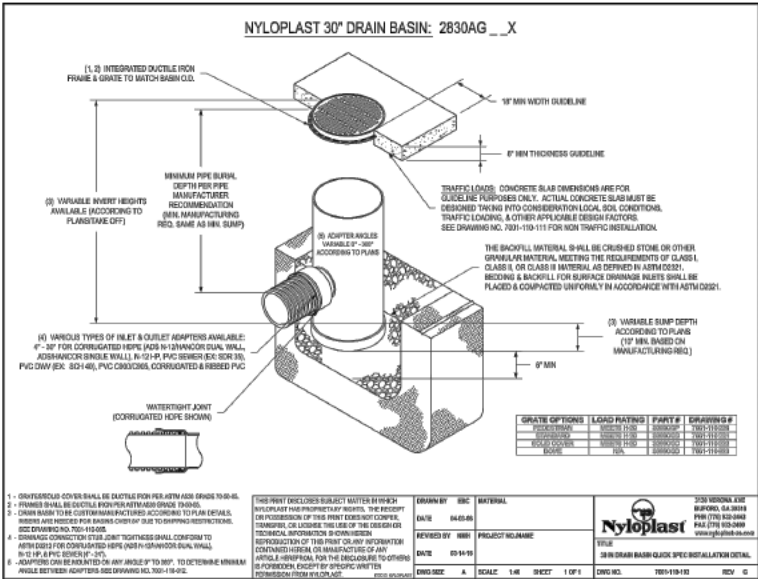
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

STORMWATER
MANAGEMENT DETAILS II

SHEET NUMBER

C-12.3



Section 2721 Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermofforming process to reform the pipe stock to the specified configuration. The drainage pipe connection shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D2921 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F422. The pipe seal gasket shall be joined to the main body of the drain basin or catch basin. The flex material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D2921 and class 15055.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2921. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2921. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of lines, ground water, and soft foundations refer to ASTM D2921 guidelines.

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DATE: 03-10-19	DATE: 03-10-19	PROJECT NO: NAME	DATE: 03-10-19
REVISED BY: MJM	REVISED BY: MJM	PROJECT NO: NAME	DATE: 03-10-19
DATE: 03-10-19	DATE: 03-10-19	PROJECT NO: NAME	DATE: 03-10-19
DWG NO.: 2830-110-011	SCALE: 1/8" = 1'-0"	SHEET: 1 OF 1	DWG NO.: 2830-110-011
REV: 0			REV: 0

Nyloplast **DRAIN BASIN SHOP DRAWING**

Project Name: Tesla - Far west Dia. 30 Structure No. N/A Qty. 1

Prepared By: nicholas Advanced Drainage Systems 716-574-2850 nicholas.pema@ads-pipe.com

Grate: 30; Standard;

Accessories:

Rim Elev. 4277.00 ft. Basin Height 117 in. Sump Depth 24.00 in.

Stub size	Angle	Pipe Type	Invert Elev. ft. AMSL	Production Depth inches	
Stub #1	24 in.	0 °	ADS N12	4269.25 ft.	93.00 in.
Stub #2	15 in.	90 °	ADS N12	4271.20 ft.	89.80 in.
Stub #3	12 in.	270 °	ADS N12	4272.50 ft.	54.00 in.
Stub #4					
Stub #5					
Stub #6					

Minimum Sump Depth:
8" x 24" Basins = 6.0"
12" Basins = 8.0"
15" Basins = 12.0"

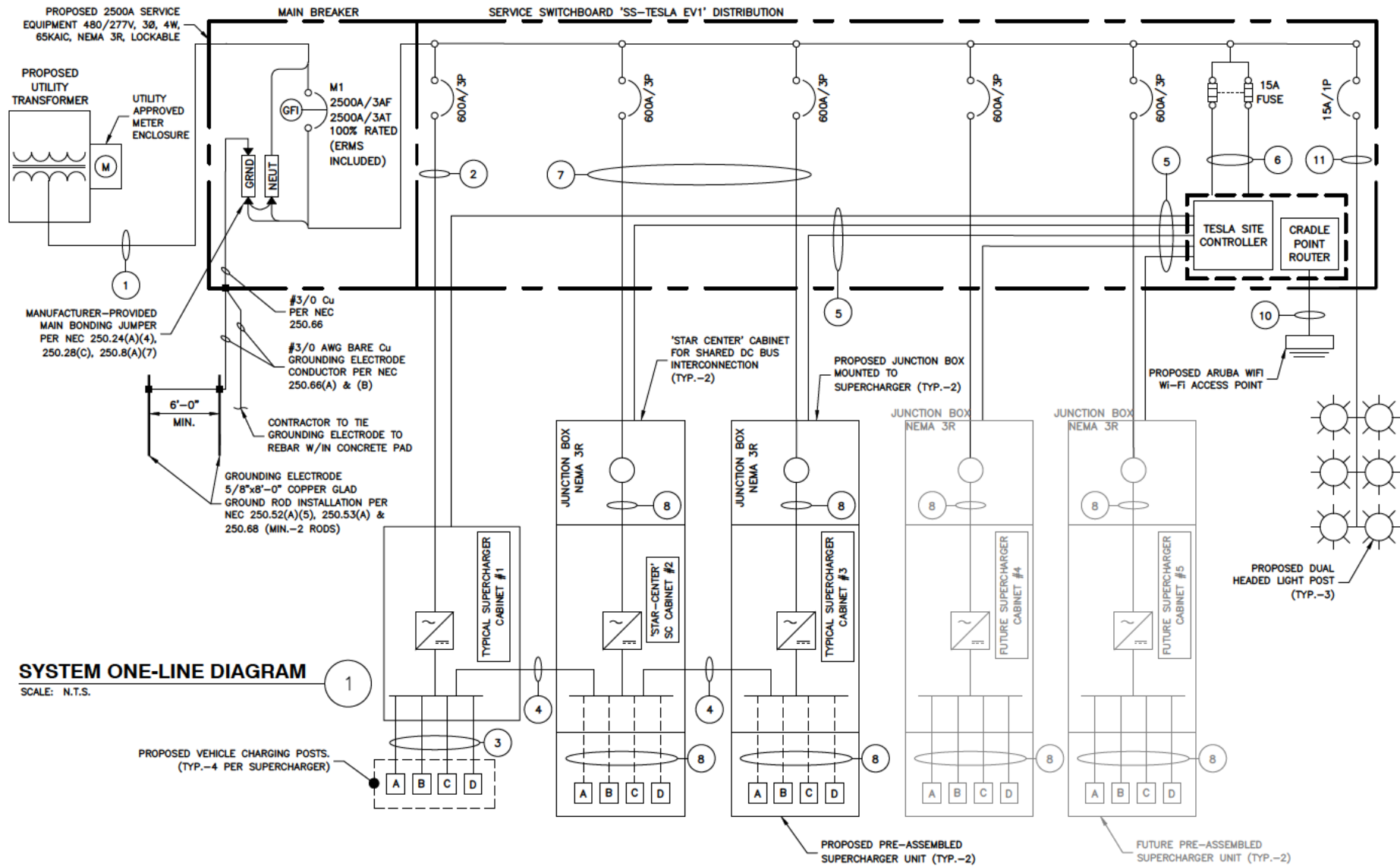
CUSTOMER NOTES

PART CODES

3099CGS;

This product is made to order and non-Refundable
Nyloplast, 3130 Verona Ave. Buford, GA 30518, (866) 888-8479
Nyloplast® is a registered trademark of Advanced Drainage Systems®

Nyloplast® is not responsible for accuracy of shop drawings submitted by customer through Basin Configurator.
Submission of shop drawings for purchase and fabrication constitute an approval for production as designed by customer.



NOTES:

- NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
- ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. FINAL CONDUCTOR ROUTING PATH AND LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FILED BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND UTILITY COMPANY STANDARDS.
- DC RUN LENGTH MAXIMUM IS 340' INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS OVER THE MAXIMUM SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF TESLA.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATION.
- UTILITY CONDUITS, CONNECTORS, TRANSFORMER PAD & TRANSFORMER FOUNDATION TO BE INSTALLED PER UTILITY SPECIFICATION. CONFIRM LATEST SPECIFICATIONS PRIOR TO CONSTRUCTION.
- EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC SAFETY MEASURES THROUGHOUT DURATION OF CONSTRUCTION. COORDINATE ANY ACCESS ROAD CLOSURES W/OWNER.
- ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE IN NEMA 3R RATED UNLESS OTHERWISE NOTED.

NOTE:

- THE DC BUS SHALL BE CONFIGURED IN A RADIAL FASHION WHERE ALL CONDUCTORS ROUTE FROM EACH 'TYPICAL' SUPERCHARGER CABINET, TO THE ONE, 'STAR CENTER' SUPERCHARGER CABINET.
- USE OF DURALINE FOR SUPERCHARGER TO CHARGE POST DC CONDUITS IS AN APPROVED ASSEMBLY. SEE TUV CERTIFICATION ON SHEET E-2

SERVICE SWITCHBOARD 'SS-TESLA' LOAD SCHEDULE

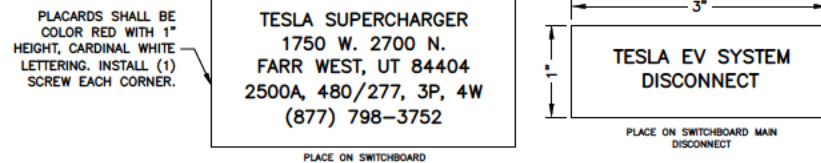
CKT NO.	TRIP AMPS	DESCRIPTION	KVA			KVA			DESCRIPTION	TRIP AMPS	CKT NO.
			A	B	C	A	B	C			
1	600A	SUPERCHARGER #1	129.00	—	—	129.00	—	—	SUPERCHARGER #2	600A	2
3			—	129.00	—	—	129.00	—			4
5			—	—	129.00	—	—	129.00			6
7	600A	SUPERCHARGER #3	129.00	—	—	129.00	—	—	SUPERCHARGER #4 (FUTURE)	600A	8
9			—	129.00	—	—	129.00	—			10
11			—	—	129.00	—	—	129.00			12
13	600A	SUPERCHARGER #5 (FUTURE)	129.00	—	—	0.10	—	—	CONTROLLER	15A	14
15			—	129.00	—	—	0.10	—			16
17			—	—	129.00	—	—	0.25			SITE LIGHTING
TOTALS		PHASE	A	B	C						
		APPARENT POWER	645.10 KVA	645.10 KVA	645.25 KVA						
		TOTAL CURRENT	2330 A								

SERVICE ELECTRICAL CIRCUIT SCHEDULE

NO:	FROM	TO	CONFIGURATION
1	PROPOSED TRANSFORMER	PROPOSED SERVICE EQUIPMENT PANEL	[8 SETS:] (3) 600KCMIL AL (THWN-2) (1) 600KCMIL AL (THWN-2) NEUT IN 4" CONDUIT
2	PROPOSED SERVICE BREAKER (600A) 80% RATED (TYP.-1)	PROPOSED STANDALONE TESLA SUPERCHARGER (TYP.-1)	[2 SETS:] (3) 500KCMIL AL (THWN-2) (1) 500KCMIL AL (THWN-2) NEUT (1) #1 CU OR 2/0 AL EGC* IN 4" PVC/HDPE CONDUIT**
3A	PROPOSED TESLA SUPERCHARGER (TYP.-1)	PROPOSED STANDALONE V3 TESLA POST*** (TYP.-4)	[1 SET PER CHARGE POST:] (4) 350KCMIL AL (XHHW-2) (1000V RATED) (1) #1 CU EGC OR (1) 2/0 AWG AL EGC* & SHIELDED 600V COMM CABLE (PER TESLA) IN 4" PVC/HDPE CONDUIT** (DURALINE ACCEPTABLE)
3B	PROPOSED TESLA SUPERCHARGER (TYP.-1)	PROPOSED STANDALONE V4 TESLA POST*** (TYP.-4)	[1 SET PER CHARGE POST:] (4) 600KCMIL AL (XHHW-2) (1000V RATED) (1) 2/0 AWG CU EGC (1000V RATED) (2) #8 CU LVDC & 1000V RATED COMM CABLE**** IN 4" CONDUIT** (DURALINE ACCEPTABLE)
4	'STAR CENTER' SUPERCHARGER CABINET DC BUS	DC BUS OF EACH TYPICAL SUPERCHARGER CABINET	[2 SETS:] (2) 600MCM AL (XHHW-2) (1) 1/0 AWG CU EGC & (1) 3/0 AWG AL DC MID (1000V RATED) IN 3" PVC/HDPE CONDUIT**
5	INTEGRATED SITE CONTROLLER	SUPERCHARGER (TYP.-3)	SHIELDED 600V RATED CAT6 COMM CABLE IN 1" PVC/HDPE CONDUIT**
6	PROPOSED SERVICE EQUIPMENT: PANEL (15A)	TESLA CONTROLLER	FACTORY INSTALLED WIRING (BY MANUFACTURER)
7	PROPOSED SERVICE BREAKER (600A) (TYP.-2)	PROPOSED PSU JUNCTION BOX (TYP.-2)	[2 SETS:] (3) 500KCMIL AL (THWN-2) (1) 500KCMIL AL (THWN-2) NEUT (1) #1 CU OR 2/0 AL EGC* IN 4" PVC/HDPE CONDUIT**
8	PROPOSED PSU JUNCTION BOX (TYP.-2)	PROPOSED PSU TESLA SUPERCHARGER (TYP.-2)	[2 SETS:] (3) 500KCMIL AL (THWN-2) (1) 500KCMIL AL (THWN-2) NEUT (1) #1 CU OR 2/0 AL EGC*
9A	PROPOSED PSU TESLA SUPERCHARGER (TYP.-5)	PROPOSED V3 TESLA POST*** (TYP.-4)	[1 SET PER CHARGE POST:] (4) 350KCMIL AL (XHHW-2) (1000V RATED) (1) #1 CU EGC OR (1) 2/0 AWG AL EGC* & SHIELDED 600V COMM CABLE (PER TESLA)
9B	PROPOSED PSU TESLA SUPERCHARGER (TYP.-5)	PROPOSED V4 TESLA POST*** (TYP.-4)	[1 SET PER CHARGE POST:] (4) 600KCMIL AL (XHHW-2) (1000V RATED) (1) 2/0 AWG CU EGC (1000V RATED) (2) #8 CU LVDC & 1000V RATED COMM CABLE
10	PROPOSED CRADLEPOINT ROUTER	PROPOSED ARUBA WIFI ACCESS POINT	(1) CAT5e OR CAT6 COMM CABLE IN 1" PVC/HDPE CONDUIT**
11	PROPOSED SERVICE EQUIPMENT: PANEL (15A)	PROPOSED SITE LIGHTING	(2) #10 CU (1) #10 CU GND IN 1" PVC/HDPE CONDUIT**

* MODIFIED PER NEC 250.64(A)(2)
** PER UL 615A AND NEC 253, LISTED HDPE CONDUIT PERMITTED CONTRACTOR TO CONFIRM USE W/ TESLA CM
*** INSTALL APPLICABLE WIRING CONFIGURATION CORRESPONDING WITH CHARGE POST TYPE INSTALLED.
**** COMM CABLE TO BE ROUTED W/IN 4" CONDUIT. 1.25" CONDUIT CAN BE USED FOR RUNS OVER ±200FT.

SYSTEM PLACARD:



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PALO ALTO, CA 94304
(650) 681-5000



Dewberry Engineers Inc.

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PHONE: 303.825.1802



JOSEPH GIGANTIELLO, P.E.
UTAH LICENSE No. 13236761-2022

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

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SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

ELECTRICAL ONE-LINE
DIAGRAM

SHEET NUMBER

E-1

AC SUPERCHARGER LENGTHS		
SUPERCHARGER	LINEAR LENGTH BREAKER PANEL TO SUPERCHARGER	ESTIMATED LENGTH*
1	5'	30'
LENGTH OF AC AL WIRE PER CONDUIT**:		120'
TOTAL NUMBER OF CONDUITS:		2
LENGTH OF AC AL WIRE ***:		240'
2	65'	90'
LENGTH OF AC AL WIRE PER CONDUIT**:		360'
TOTAL NUMBER OF CONDUITS:		2
LENGTH OF AC AL WIRE***:		720'
3	125'	150'
LENGTH OF AC AL WIRE PER CONDUIT**:		600'
TOTAL NUMBER OF CONDUITS:		2
LENGTH OF AC AL WIRE***:		1200'
TOTAL LENGTH OF AC AL WIRE****:		2160'
TOTAL LENGTH OF EGC*****:		540'
NOTES:		
1. SEE SHEET E-1 FOR WIRE CONFIGURATION.		
* AC CONDUCTORS: 25 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.		
** ESTIMATED LENGTH OF AI WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER		
*** LENGTH = LENGTH OF AC AL WIRE PER CONDUIT X # OF CONDUITS		
**** TOTAL LENGTH = SUM OF AC LENGTHS		
***** TOTAL LENGTH OF EGC = LENGTH X # SETS		

CONDUCTOR LENGTHS

SCALE: N.T.S.

SECONDARY SERVICE LENGTHS		
	LINEAR LENGTH	ESTIMATED LENGTH*
TRANSFORMER TO SWITCHGEAR	10'	35'
TOTAL LENGTH OF AL WIRE**:		BY UTILITY
NUMBER OF WIRE FILLED CONDUITS:		8
TOTAL LENGTH OF AC AL WIRE***:		BY UTILITY
NOTES:		
1. SEE SHEET E-1 FOR WIRE CONFIGURATION.		
* AC CONDUCTORS: 25 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.		
** ESTIMATED LENGTH OF AI WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SET		
*** LENGTH OF AL WIRE PER DISCONNECT = ESTIMATED TOTAL LENGTH OF AL WIRE X # WIRE SETS		

DC CHARGING POST LENGTHS			
SUPERCHARGER	CHARGE POST	LINEAR LENGTH	ESTIMATED DC WIRE LENGTH*
1	1A	90'	112'
	1B	75'	97'
	1C	90'	112'
	1D	100'	122'
		CONDUIT LENGTH:	443'
		TOTAL CONDUCTOR LENGTH**:	1772'
		TOTAL LENGTH OF EGC & COMM CABLE:	443'
NOTES:			
1. SEE SHEET E-1 FOR WIRE CONFIGURATION.			
2. ANY DC RUN OVER 330' SHALL BE BROUGHT TO THE ATTENTION OF TESLA CM.			
* 22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.			
** ESTIMATED LENGTH OF DC AL WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER			



Letter Report

TUV Rheinland of North America, Inc.
295 Foster St. #100
Littleton, MA 01460, USA
www.tuv.com

11/19/2021

Report No. 32195766.001
Project No. 234176170

Mr. Mark Edwards
Tesla, Inc.
3500 Deer Creek Rd
Palo Alto, CA 94304, USA

Tel: (678) 438 9475
Email: Markedwards@tesla.com

Subject: Duraline Conduits 2", 3" and 4" Testing

Dear Mr. Mark Edwards:

This letter report is to present the results of testing results of Duraline flexible conduit for Tesla supercharger station installation in accordance with the following standards:

- ANSI/CAN/UL1660 Liquid-tight Flexible Nonmetallic Conduit, 6th Ed. dated 01/30/2019
- UL 651A Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit, 5th Ed. dated 03/10/2017
- UL 1990 Nonmetallic Underground Conduit with Conductors, 3rd Ed. dated 01/20/2017

The project was authorized by the signed PO #4900294467, dated 08/07/2021 for the project proposal # 234041515, the following tests have been completed by 11/02/2021 in the Duraline lab on Knoxville TN.

The following table lists completed tests in accordance with the standards UL 1990, UL 651A and UL 1660.

No.	UL 1990 Clause	UL 651A Clause	UL 1660 Clause	Test description	Test Result
1	10	11.3	--	Water absorption test	Pass
2	11	9.3	--	Low temperature handling test	Pass
3	--	--	5.6	Tension	Pass
4	--	--	5.5	Deflection test	Pass
5	--	--	5.4	Cold Impact	Pass
6	15	11.2	5.11	Moisture penetration	Pass
8	17	--	5.16	Direct burial crush test	Note

Note:

- As discussed with Duraline engineers, conduit stiffness varies with wall thickness per Table 5 in the standard ASTM F2160 - 16 Solid Wall High Density Polyethylene (HDPE) Conduit based on Controlled Outside Diameter (OD). The stiffness calculated for conduit 2", 3" and 4" are 101+/22 psi, 92+/2 psi

M50009914 Attachment 1

Page 1 of 2

Rev. 0



Letter Report

TUV Rheinland of North America, Inc.
295 Foster St. #100
Littleton, MA 01460, USA
www.tuv.com

and 61+/-2 psi. The test has been performed per ASTM 2412 as required by both UL 1990 and UL 1660. All samples were visually inspected and no any cracks observed on samples after the test. Those stiffness test data are reference for Tesla engineers to determine conduit burial depth for Tesla supercharger station installation.

The Duraline conduit test report is enclosed.

The above Duraline conduits can be used in the field installation of charge post CS-350-A2 per NEC with adequate depth calculation.

If there are any questions regarding the results contained in this report, or any of the other services offered by TUV Rheinland of North America, Inc., please do not hesitate to contact the undersigned.

Please note, this letter report does not represent authorization for the use of any TUV Rheinland certification marks.

Evaluated by:

Zhiyong Hu
Principal Test Engineer
Email: zhu@us.tuv.com

Reviewed by:

Howard Liu
Manager, Power Electronics Segment - Americas
Email: hliu@us.tuv.com

SPECIALTY
SMOOTH-COR FLEX

- Flexible: Reduces/eliminates the need for sweeps and bends
- Crush resistant: Equivalent to Schedule 40 PVC
- Lightweight: Easier installation, 40% lighter than PVC
- Compatibility: Easily adapts to other conduit materials
- Glueless coupling: Safe, quick assembly
- Gasketed: Air and watertight
- Low COF: Longer cable pulls with lower cable stress

INSTALLATION TYPES
Underground
Direct Bury
Concrete Encasement

SIZE RANGE AVAILABLE
2.0"
3.0"
4.0"

STANDARD COLORS
Outer Wall: ■ ■ ■
Inner Wall: ■

STANDARD

DETAILS: Manufactured from flexible HDPE (High Density Polyethylene)

SPECIFICATIONS: All Smooth-Cor Flex dimensions meet or exceed one or more of the following: ASTM D-3350, ASTM D-638, ASTM D-792, ASTM D-1238, ASTM D-1693

CONDUIT MARKINGS: Permanent marking along conduit includes: material, relevant standards, production info, and sequential feet or meter markings.

CO-EXTRUDED LINING: Corrugated exterior with a smooth, co-extruded inner layer

PRE-INSTALLED TAPE: Factory pre-installed Bull-Line™ 1250lb Pull Tape comes standard in Smooth-Cor Flex on steel reels. Smooth-Cor Flex coils are only available as empty.

OPTIONS

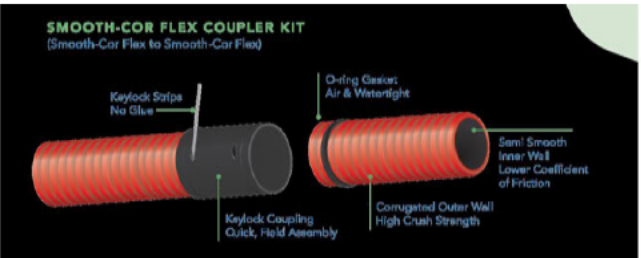
PACKAGING: Available on steel reels or 250' coils

dur-line

+1 800 847 7461
WWW.DURALINE.COM

TL500440

orbis
ADVANCING PROTECTION



NOTES:

- DURALINE SMOOTH-COR FLEX CONDUIT HAS BEEN CERTIFIED AS CRITICAL COMPONENT OF THE SUPERCHARGER TO TUV.
- PRODUCT WILL BE USED TO CONNECT THE TESLA SUPERCHARGER CABINET TO TESLA CHARGE POST.
- DURALINE SMOOTH-COR FLEX CONDUIT SHALL NOT BE INSTALLED WITHIN SUPERCHARGER CABINETS OR POST. CONTRACTOR SHALL TRANSITION SMOOTH-COR FLEXIBLE CONDUIT TO PVC CONDUIT AND SWEEP PVC CONDUIT INTO THE SUPERCHARGER CABINETS OR POST.

DURALINE SMOOTH-COR FLEX DETAILS

SCALE: N.T.S.



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



Dewberry Engineers Inc.

990 SOUTH BROADWAY
SUITE 400
DENVER, CO 80209-4275
PHONE: 303.825.1802



JOSEPH GIGANTIELLO, P.E.
UTAH LICENSE No. 13236761-2022

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS		
REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

ELECTRICAL DETAILS

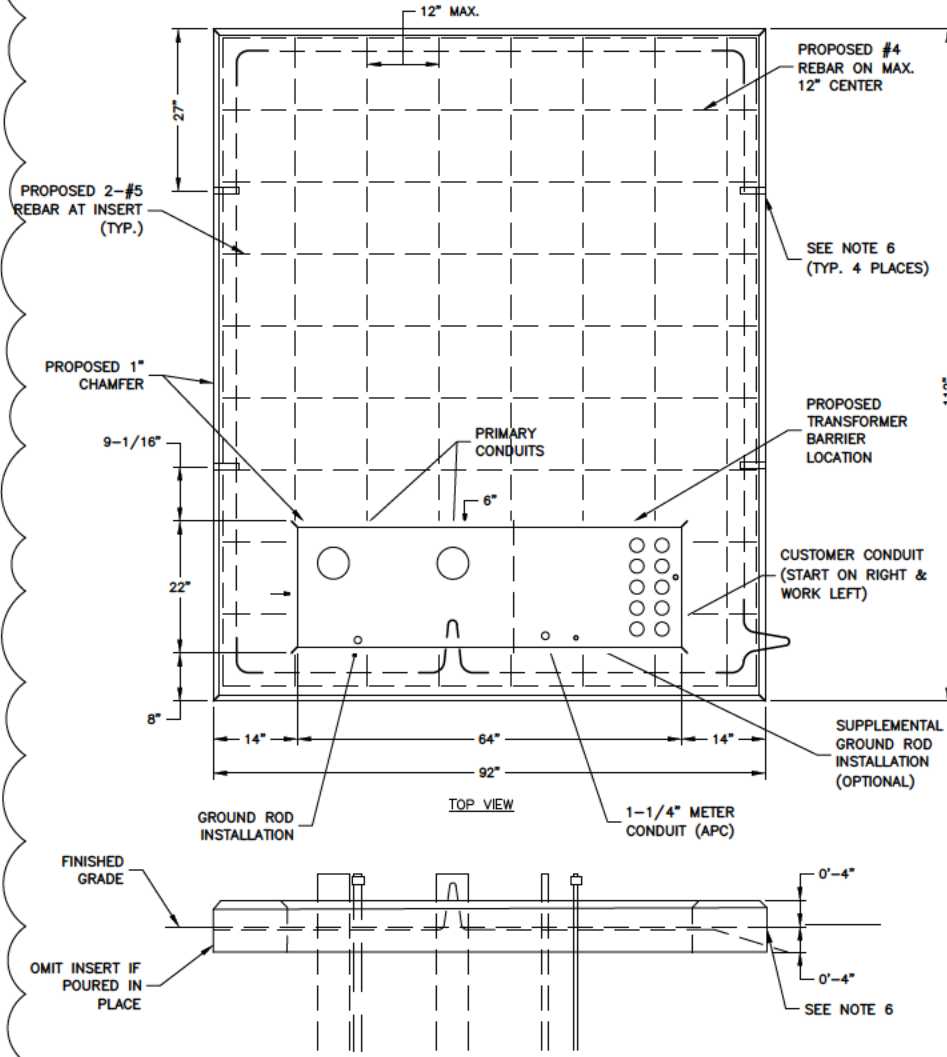
SHEET NUMBER

E-2

SCOPE OF WORK			
UTILITY	ROCKY MOUNTAIN POWER		
CATEGORY	ITEMS	TESLA	UTILITY
PRIMARY	PRIMARY TRENCHING	X	
	INSTALL PRIMARY CONDUIT	X	
	INSTALL PULL ROPE	X	
	INSTALL PRIMARY FEEDERS		X
	PROVIDE PRIMARY FEEDERS		X
TRANSFORMER	PROVIDE ROAD CUTS/ROAD BORES (IF NECESSARY)	X	
	INSTALL TRANSFORMER PAD	X	
	PROVIDE TRANSFORMER	X	
	INSTALL TRANSFORMER		X
SWITCHBOARD	INSTALL CONNECTIONS-PRIMARY		X
	INSTALL CONNECTIONS-SECONDARY		X
	PROVIDE METER		X
SECONDARY	INSTALL METER		X
	LAND SECONDARY FEEDERS	X	
	SECONDARY TRENCHING	X	
	INSTALL SECONDARY CONDUIT	X	
	INSTALL PULL ROPE	X	
	PROVIDE SECONDARY FEEDERS		X
	INSTALL SECONDARY FEEDERS		X
	PROVIDE ROAD CUTS/ROAD BORES (IF NECESSARY)	X	
	PAVEMENT REPLACEMENT (IF NECESSARY)	X	

UTILITY SOW TABLE
SCALE: N.T.S.

DETAIL IS FOR DIAGRAMATIC REFERENCE.
PENDING TRANSFORMER PAD SPECIFICATION
FROM ROCKY MOUNTAIN POWER



PRECAST OR POURED IN PLACE CONCRETE PAD FOR 3 PHASE
PAD-MOUNTED TRANSFORMER, 12 KV THRU 25 KV PRIMARY VOLTAGE,
500 KVA TO 2500 KVA RADIAL STEP-UP/DOWN, 500-3750 KVA LOOP FEED

TRANSFORMER PAD

SCALE: 3/8"=1' FOR 11"x17"
3/4"=1' FOR 22"x34"



UTILITY NOTES:

1. MAINTAIN 2 IN. OF CLEAR CONCRETE BETWEEN REBAR AND ALL OUTER SURFACES.
 2. REINFORCE WITH No 4 REBARS WITH 12"x12" GRID, 4 IN. BELOW TOP OF PAD EXCEPT AS SHOWN ABOVE.
 3. CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI. PAD SHALL BE CURED NOT LESS THAN 72 HOURS.
 4. AVERAGE WEIGHT OF PAD IS 5,800 POUNDS.
 5. MOUNTING SURFACE SHALL BE LEVEL, SMOOTH AND UNIFORM WITH MINIMAL IRREGULARITIES.
 6. LIFTING INSERT FOR 1 IN. DIAMETER THREADED BOLT, 4" DEPTH, MEADOW BURKE FX-14, 4 LOCATIONS (OMIT IF POURED IN PLACE).
- * 66" OPENING INCLUDES CHAMFER.

NOTES:

1. SPECIFICATION BASED ON ROCKY MOUNTAIN POWER SPECIFICATION TBD PRECAST OR POURED IN PLACE CONCRETE PAD FOR 3 PHASE PAD-MOUNTED TRANSFORMER.
2. CONTRACTOR TO VERIFY APPROVED VENDORS W/ UTILITY IF ORDERING PRECAST FOUNDATION.
3. CONTRACTOR TO CONFIRM LATEST SPECIFICATIONS W/ UTILITY PRIOR TO CONSTRUCTION OR ORDERING.



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Dewberry Engineers Inc.

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PHONE: 303.825.1802



JOSEPH GIGANTIELLO, P.E.
UTAH LICENSE No. 13236761-2022

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #: 50123704

JOB #: 50159192

SUBMITTALS

REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

UTILITY DETAILS

SHEET NUMBER

E-3

 DANGER			
NO SAFE PPE EXISTS			
ENERGIZED WORK PROHIBITED			
387 in	Arc Flash Boundary		
161.3 cal/cm ²	Incident Energy at 18 in		
PPE	DO NOT WORK ON LIVE!		
480 VAC	Shock Risk when cover is removed		
00	Glove Class		
42 in	Limited Approach		
12 in	Restricted Approach		
N/A	Minimum Arc Rating		
Location:		MAIN SWBD - LINE-SIDE	
TESLA SUPERCHARGER_FARR WEST, UT - 2500A MCB  (5) Tesla Chargers & (20) Charge Posts 1750 W. 2700 N. FARR WEST, UT 84404			
TRT-27285	Prepared on:	10/18/23	By: Tesla
Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements			

 WARNING			
Arc Flash and Shock Risk			
Appropriate PPE Required			
32 in 3.01 cal/cm² PPE 480 VAC 00 42 in 12 in 12 cal/cm²	Arc Flash Boundary Incident Energy at 18 in Arc-rated shirt & pants + arc-rated coverall + arc-rated arc flash suit Shock Risk when cover is removed Glove Class Limited Approach Restricted Approach Minimum Arc Rating		
Location:		SUPERCHARGER	
TESLA SUPERCHARGER_FARR WEST, UT - 2500A MCB TESLA (5) Tesla Chargers & (20) Charge Post 1750 W. 2700 N. FARR WEST, UT 84404			
TRT-27285	Prepared on:	10/18/23	By: Tesla
Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements			

ARC FLASH WARNING LABELS

SCALE: N.T.S.

BREAKER SETTINGS – GE			
MAIN SERVICE SWITCHBOARD – 2500A MCB – ZPOWER			
		PHASE	GROUND
DESIGNATION	FRAME AMPS	2500	2500
	AIC RATING	100	100
FRAME	MANUFACTURER	GE	GE
	TYPE/MODEL	SSF	SSF
TRIP UNIT	SENSOR AMPS	2500	2500
	PLUG AMPS	2500	2500
	DESCRIPTION	LSI(CB), 2500–3000AF, UL489	GF, 2500–3000AF
	TYPE/MODEL	ENTELOGUARD	ENTELOGUARD
TRIP UNIT SETTINGS (2500A TRIP)	LONG TIME PICKUP (LT)	1.0 (2500A)	
	LONG TIME DELAY (LTD)	C–2	
	LT CURVE	I2T	
	SHORT TIME PICKUP (STPU)	1.0 (2500A)	
	SHORT TIME DELAY (STD/1'S T)	ST02–MIN 1'S T: OFF	
	INSTANTANEOUS PICKUP (INST PU)	3.0 (7500A)	
	GROUND FAULT PICKUP (GF PU)		0.48 (1200A)
	GROUND FAULT DELAY (GFD/1'S T)		GFD: 9.0 1'S T: OFF
SUPERCHARGER CABINET BREAKER – 600A			
TRIP UNIT	TYPE/MODEL	PD–3 THERMAL MAG TRIP UNIT (600A TRIP)	
TRIP UNIT SETTINGS	INSTANTANEOUS (II)	5 (3000A)	

GE BREAKER SETTINGS

SCALE: N.T.S.

BREAKER SETTINGS – EATON			
MAIN SERVICE SWITCHBOARD – 2500A MCB – ZPOWER			
		PHASE	GROUND
DESIGNATION	FRAME AMPS	2500	2500
FRAME	AIC RATING	65	65
	MANUFACTURER	EATON	EATON
	TYPE/MODEL	SBN–625	SBN–625
TRIP UNIT	SENSOR AMPS	2500	2500
	PLUG AMPS	2500	2500
	DESCRIPTION	LSI, 2500AF, 2000–2500AP	GF, 800–6000AF
	TYPE/MODEL	MAGNUM SB, DT 520	MAGNUM SB, DT 520
TRIP UNIT SETTINGS (2500A TRIP)	LONG DELAY PICKUP (lr)	1 (2500A)	
	LONG DELAY TIME (tr)	15s	
	SHORT DELAY PICKUP (lsd)	2 (5000A)	
	SHORT DELAY TIME (l2t)	0.1s (OUT)	
	INSTANTANEOUS PICKUP (li)	3 (7500A)	
	GROUND FAULT PICKUP (lg)		0.48 (1200A)
	GROUND FAULT DELAY TIME (tg)		0.5s
SUPERCHARGER CABINET BREAKER – 600A			
TRIP UNIT	TYPE/MODEL	PD–3 THERMAL MAG TRIP UNIT (600A TRIP)	
TRIP UNIT SETTINGS	INSTANTANEOUS (li)	5 (3000A)	

EATON BREAKER SETTINGS

SCALE: N.T.S.

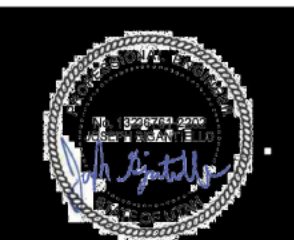


3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000



Dewberry Engineers Inc.

990 SOUTH BROADWAY
SUITE 400
DENVER, CO 80209-4275
PHONE: 303.825.1802



JOSEPH GIGANTIello, P.E.
UTAH LICENSE No. 13236761-2022

DRAWN BY: KFM

CHECKED BY: SES

APPROVED BY: MJM/JG

PROJECT #:	50123704
------------	----------

JOB #:	50159192
--------	----------

SUBMITTALS		
REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
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A	04/13/23	FOR REVIEW

SITE NAME:

FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:

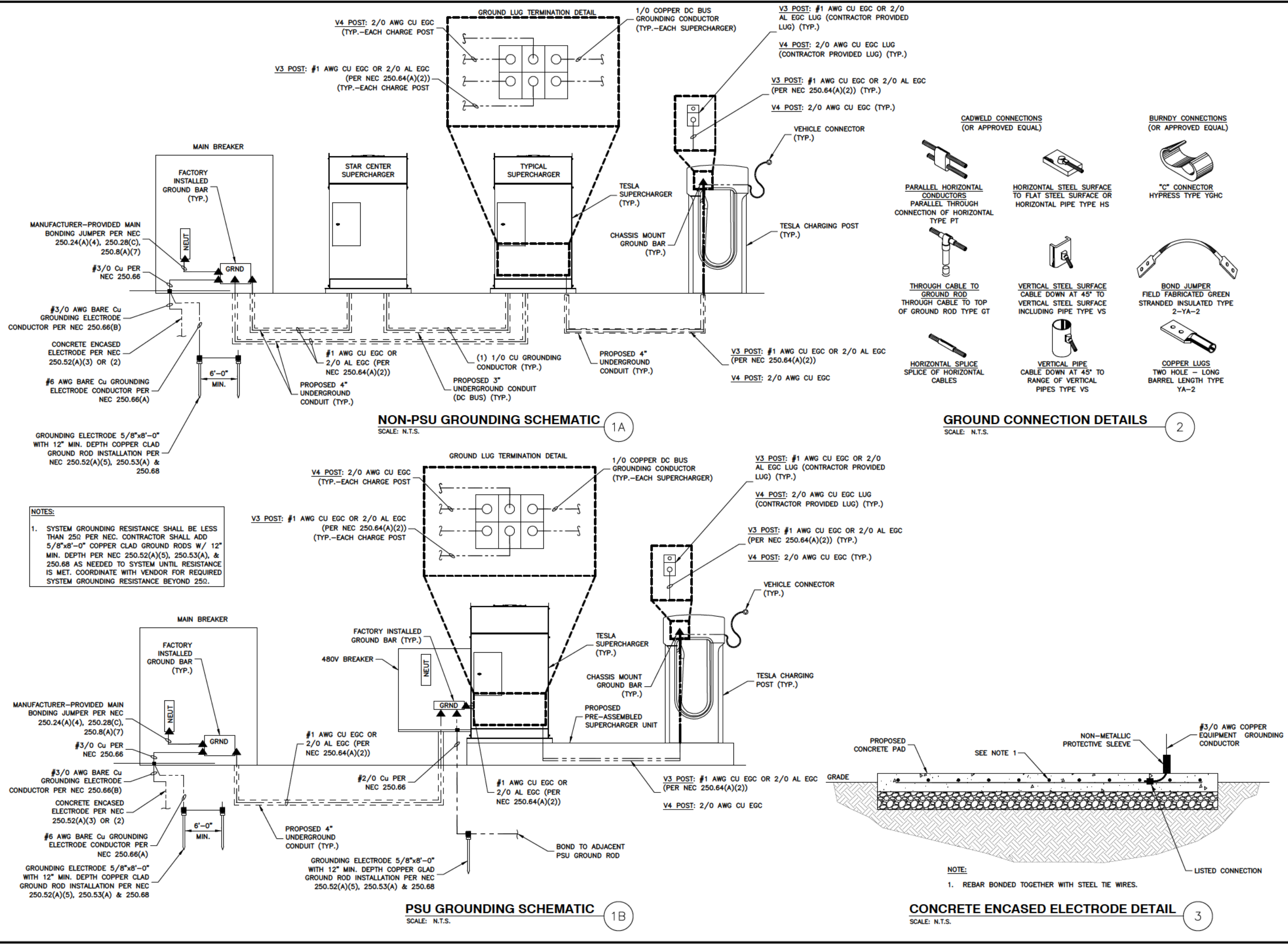
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE

ARC FLASH LABELS & BREAKER SETTINGS

SHEET NUMBER

E-4





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



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990 SOUTH BROADWAY
SUITE 400
DENVER, CO 80209-4275
PHONE: 303.825.1802



JOSEPH GIGANTIELLO, P.E.
UTAH LICENSE No. 13236761-2022

DRAWN BY:	KFM
CHECKED BY:	SES
APPROVED BY:	MJM/JG
PROJECT #:	50123704
JOB #:	50159192

SUBMITTALS		
REV.	DATE	DESCRIPTION
2	11/30/23	CITY COMMENTS
1	10/20/23	CITY COMMENTS
0	09/01/23	ISSUE FOR S&S
A	04/13/23	FOR REVIEW

SITE NAME:
FARR WEST, UT
(TRT ID: 27285)

SITE ADDRESS:
1750 W 2700 N
FARR WEST, UT 84404

SHEET TITLE
GROUNDING SCHEMATIC
& DETAILS

SHEET NUMBER
G-1

APPLICATION

Date Submitted:

Fees (office use)

Type of Vacation or Modification Request:



Easement

☐ Road

☐ Subdivision

☐ Subdivision Lot

APPLICANT CONTACT INFORMATION

Name of Applicant:

Steven and Shirlene Wilson

Mailing Address:

2880 W. 3325 N. Parr West 84401

P

PROPERTY INFORMATION

Property Address

Land Serial Number

Subdivision Name:

Lot Number

Description of Project or Requested Action:

30x30x13 garage 4 ft to property
line or closer.

Included Documents:

☐ Petition

☐ Approval Letters

☐ Amended Plat

Signature of Applicant:

Date

Application for Rezoning Real Property



Date Submitted Dec 8, 2023 Applicant's Name Brad Butterfield

Applicant's Address _____

Applicant's Phone (89) _____

Fee Schedule (check one):

Up to 5 acres..... \$150.00 []

More than 5 acres..... \$200.00 []

Commercial or Manufacturing..... \$250.00 [X]

Fee received by Lindsay A. Fuvai Date 12/8/2023

I (we), the undersigned property owner (s), request that the following real property (include or attach a legal description and a scale drawing of the real property here):

15-442-0002

Be rezoned from (present zoning) Residential/Agricultural

To (desired zoning) Commercial

Include or attach a list of all adjacent property owners within three hundred feet (300') of the property proposed for rezone and their addresses. []

The Planning Commission must review the request from the standpoint that changes in property zoning cannot be made unless it is in the best interest of the citizens of Farr West City generally.

Please answer the following questions: (Attach additional sheets if necessary)

1. How is this request consistent with the policies of Farr West City's General Plan?

The majority of the properties along 2000 w are planned as residential in the future

Application for Rezoning Real Property



2. How will this request benefit the general public and the community?

Provide excellent oral health care.

3. How will this request promote the health, safety, convenience, order or prosperity of the general public?

Provide greater access ~~to receive~~ to oral health care

Signature of Petitioner(s):

Brad Butterfield

Address:

1761 N 2000 W
Farr West UT 844

✓ Checklist:

- ☒ Fees Paid
- ☒ Legal Description
- ☒ Scale Drawing
- ☐ Adjacent Property Owners List
- ☒ Public Hearing Set
- ☐ Adjacent Property Owners Notified

- ☐ Notice Advertised on: _____
- ☐ Public Hearing Held on: _____
- PC Recommendation:
- ☐ Approve ☐ Reject Date: _____
- CC Action:
- ☐ Approve ☐ Reject Date: _____

Ownership Info for 154420002 as of Dec-11-2023 10:17:23am

Property Owner as of Dec-11-2023 10:17:23am

Property Address

MICHAEL & BONNIE BEAL FAMILY
TRUST

1407 N 2000 W

FARR WEST

84404

Parcel Number: 154420002

Tax Area: 145

Mailing Address

MICHAEL & BONNIE BEAL FAMILY
TRUST

430 N STATION PKWY APT 456

FARMINGTON UT

840253149

Current References

Entry #	Book	Page	Recorded Date
2321541			February 13, 2008

Kind of Instrument WARRANTY DEED

2797765

June 10, 2016

Kind of Instrument EASMNT

2860267

May 31, 2017

Kind of Instrument QUIT CLAIM DEED

Dedication Plats

Cottam Subdivision 1st Amendment
[66-032](#)(TIF)

Prior Parcels

[152620002](#) (Dead)

[150040006](#) (Dead)

Legal Description

ALL OF LOT 2, COTTAM SUBDIVISION 1ST AMENDMENT, FARR WEST
CITY, WEBER COUNTY, UTAH.
TOGETHER WITH AND SUBJECT TO PRIVATE ACCESS EASEMENT E#
2797765.

PART OF THE SE 1/4 OF SECTION 2, T.6N., R.2W. S.L.B. & M.
COTTAM SUBDIVISION 1ST AMENDMENT

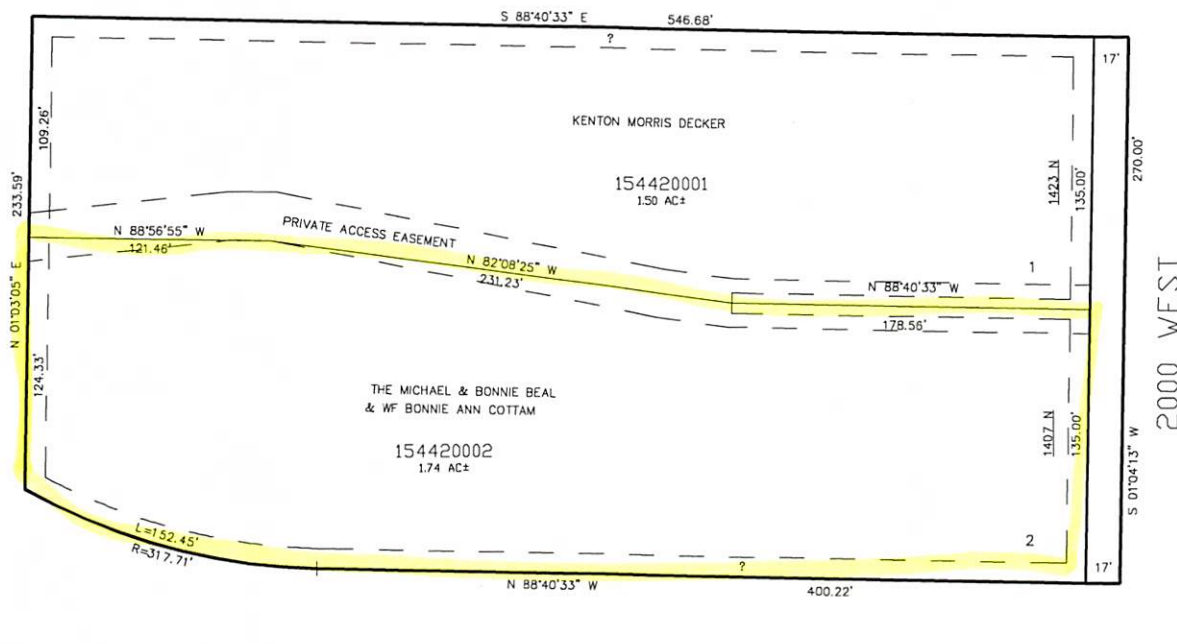
IN FARR WEST CITY

TAXING UNIT: 145

SCALE 1" = 50'

SEE P. 4

SEE P. 4



SEE P. 4

FOR COMPLETE ENG DATA SEE
ORIGINAL DEDICATION PLAT IN
BOOK 66, PAGE 32 OF RECORDS.

10' UTILITY & DRAINAGE EASEMENTS EACH
SIDE OF PROPERTY LINES AS INDICATED
BY DASHED LINES EXCEPT AS OTHERWISE
SHOWN.

Application for Rezoning Real Property



Date Submitted 11/27/23

Applicant's Name Steve Borup

Applicant's Address _____

Applicant's Phone 4 _____

Fee Schedule (check one):

Up to 5 acres..... \$150.00 []

More than 5 acres.....\$200.00 []

Commercial or Manufacturing..... \$250.00 ☒

Fee received by MT

Date 11/27/23

I (we), the undersigned property owner (s), request that the following real property (include or attach a legal description and a scale drawing of the real property here):

See attached legal description.

Be rezoned from (present zoning) R-1-15

To (desired zoning) M-1

Include or attach a list of all adjacent property owners within three hundred feet (300') of the property proposed for rezone and their addresses. ☒

The Planning Commission must review the request from the standpoint that changes in property zoning cannot be made unless it is in the best interest of the citizens of Farr West City generally.

Please answer the following questions: (Attach additional sheets if necessary)

1. How is this request consistent with the policies of Farr West City's General Plan?

This application requests a modification of the general plan, future zoning, for the subject land area from Residential - Agricultural to Manufacturing. The change will move the designated Manufacturing area west by approximately 680 ft. The total lineal feet of transition between Residential and Manufacturing will remain approximately the same.

Application for Rezoning Real Property



2. How will this request benefit the general public and the community?

The proposed manufacturing zoning aligns with the objectives chapter 4 of the General Plan by creating a strong economic base and attracting industry. Occupiers in the planned industrial park will provide employment opportunities and local services for Farr West citizens. The city will also benefit from additional property tax increment.

3. How will this request promote the health, safety, convenience, order or prosperity of the general public?

The project will be constructed to class A standards by a licensed general contractor, comply with local zoning ordinances, and is consistent with adjacent uses to the east and north. Farr West City's M-1 code title 17.40 regarding screening, setbacks, heights, landscaping, sound, outdoor storage, and lighting restrictions will be adhered to. The project will not have general access to Farr West Dr.

Signature of Petitioner(s):

Steve Borup
STEVE BORUP

Address:

299 S MAIN, SLC UT 84111 (MAILING)
1648 FARR WEST DR (PHYSICAL)

✓ Checklist:

- ☒ Fees Paid
- ☒ Legal Description
- ☒ Scale Drawing
- ☒ Adjacent Property Owners List
- ☐ Public Hearing Set
- ☐ Adjacent Property Owners Notified

- ☐ Notice Advertised on: _____
- ☐ Public Hearing Held on: _____
- PC Recommendation:
- ☐ Approve ☐ Reject Date: _____
- CC Action:
- ☐ Approve ☐ Reject Date: _____

Re-Zone Description

A parcel of land being part of part of Lots 1-R and Lot 2-R, JAC Subdivision recorded April 20, 2020 as Entry No. 3048871 and part of that entire tract described as "Parcel 2" in that Warranty Deed recorded February 9, 2021 as Entry No. 3124718 in the Office of the Weber County Recorder. Said parcel is located in the Southwest Quarter of Section 36, Township 7 North, Range 2 West, Salt Lake Base and Meridian and is described as follows:

Beginning at a point on the easterly boundary line of a "21.5 foot wide lane", which is 923.27 feet N. 00°03'07" E. along the Section Line and 1668.26 feet East from the Southwest Corner of said Section 36; thence N. 78°03'51" W. 681.37 feet to the westerly line of said Lot 1-R; thence along said JAC Subdivision the following two (2) courses: 10 N. 00°03'37" E. 730.88 feet; thence S. 89°36'44" E. 659.90 feet to a westerly line of said "21.5 foot wide lane"; thence N. 01°02'51" E. 479.47 feet along said westerly line; thence N. 89°40'00" E. 21.50 feet to said easterly line of "21.5 foot wide lane"; thence S. 01°01'58" W. 1,347.07 feet along said "21.5 foot wide lane" to the **Point of Beginning**.

The above-described parcel contains 549,341 sq. ft. in area or 12.611 acres, more or less.

EXHIBIT "D": By this reference, made a part hereof.

BASIS OF BEARING: N. 00°03'07" E. along the Southwest Corner and the West Quarter Corner of said Section 36, Township 7 North, Range 2 West, Salt Lake Base and Meridian.

LEGEND

- Adjacent Parcel
- Re-Zone Area

ASSOCIATED FOOD
STORES INC.
19-041-0088

S89°36'44"E 659.90'

N89°40'00"E 21.50'

N1°02'51"E 479.47'

S1°01'58"W 1347.07'

N0°03'37"E 730.88'

CHUGG LIVING
TRUST
19-414-0001

LOT 1-R
JAC SUBDIVISION
E#3048871, B: 87, P: 54

DAVID & SARA
CHUGG LIVING
TRUST
19-414-0002

LOT 2-R
JAC SUBDIVISION
E#3048871, B: 87, P: 54

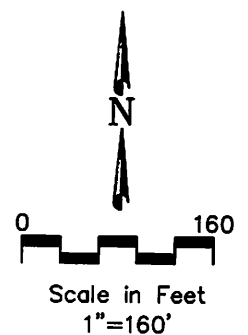
KARLA HOWARD
CHATELAIN TRUST
19-042-0052

BLBP LAND LLC
19-041-0078

DAVID & SARA CHUGG
LIVING TRUST
19-042-0073

N78°03'51"W 681.37'

EXHIBIT "B"



POB

David & Sara Chugg Living Trust
Re-Zone Exhibit

Assessor Parcel No:

19-042-0073, 19-414-0001, 19-414-0002

Part of the Southwest Quarter
Sec. 36, T.7N., R.2W., S.L.B.&M.

PREPARED BY:

CIR

**CIVIL ENGINEERING
+SURVEYING**

10718 South Beckstead Lane, Suite 102, South Jordan, Utah 84095

October 5, 2023

Page 2 of 2

Rezone Application: David Chugg Land

Name	Parcel #(s)	Street Address	Mailing Address
1 Associated Foods Stores, Inc	19041088, 2400 N 1850 W 190410081		PO Box 30430, Salt Lake City UT 84130
2 BLBP Land LLC	190420078		201 S Main Street, STE 2000, Salt Lake City UT 84111
3 Pappy Homeplace LLC	190420079	1594 W Farr West Dr	1594 W Farr West Dr, Farr West UT, 84404
4 David and Sara Chugg Living Trust	190420015, 1648 Farr West Dr, 1686 Farr West 190420073, Drive 194140002		1648 Farr West Dr, Farr West UT 84402
5 Chugg, Jason and Heather B Chugg	194140001	1712 W Farr West Dr	4206 N 350 W Pleasant View UT 84414
6 Jason Chugg	190420061	1726 W Farr West Dr	4367 N 175 W Pleasant View UT 84414
7 Karla Howard Chatelain Trust	190420052, 1780 W Farr West Dr 190420001		1780 W Farr West Dr, Farr West UT 84404
8 Angela Dickinson	190420074	1786 W Farr West Dr	1786 Farr West Dr, UT 84404