



Redwood Coast Energy Authority

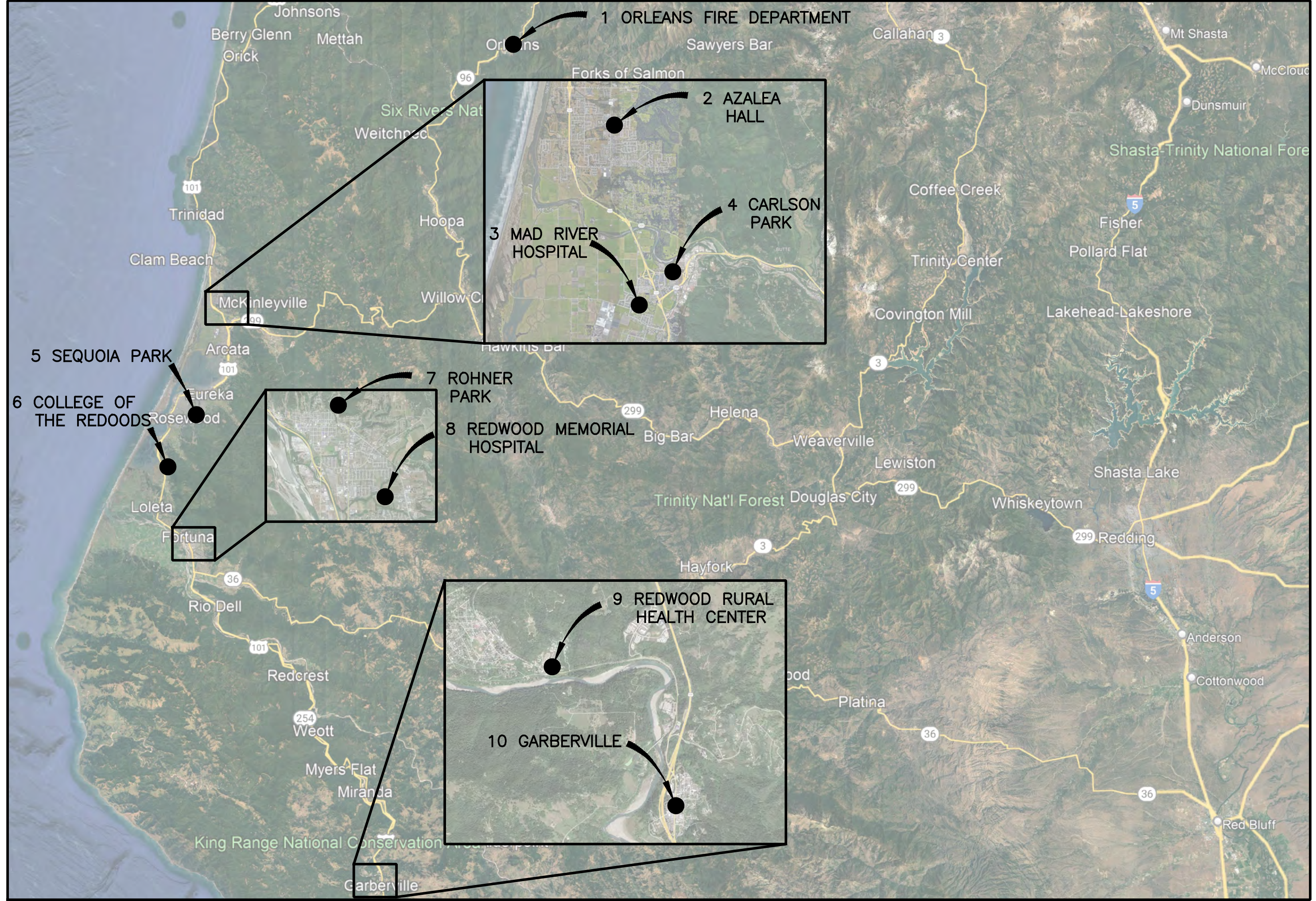
**INVITATION FOR BIDS
IFB-24-501**

**Summary of Work Attachment 1.1
Plan Drawing and Technical Specifications**

REDWOOD COAST ENERGY AUTHORITY

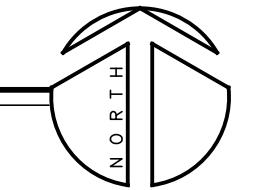
ELECTRIC VEHICLE CHARGING STATIONS

10 LOCATIONS ACROSS HUMBOLDT COUNTY



VICINITY MAP

NO SCALE



PROJECT INFORMATION:

APPLICANT:
REDWOOD COAST ENERGY AUTHORITY
633 3RD STREET
EUREKA, CA 95501

APPLICANT AGENT:
WHITCHURCH ENGINEERING, INC.
610 9TH STREET
FORTUNA, CA 95540

PROJECT DESCRIPTION:

INSTALLATION OF <N> ELECTRIC VEHICLE CHARGING STATIONS AT VARIOUS SITES.

SITE INDEX:

SITE #:	SITE NAME:
1	ORLEANS FIRE DEPARTMENT
2	AZALEA HALL, MCKINLEYVILLE
3	MAD RIVER COMMUNITY HOSPITAL
4	CARLSON PARK
5	SEQUOIA PARK
6	COLLEGE OF THE REDWOODS - PENDING
7	ROHNER PARK
8	REDWOOD MEMORIAL HOSPITAL
9	REDWOOD RURAL HEALTH CENTER
10	GARBERVILLE

SEE INDIVIDUAL SITE PAGES FOR DRAWING SHEET INDEX

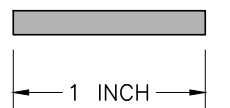
PROJECT CONSULTANTS

CIVIL ENGINEERING:
WHITCHURCH ENGINEERING, INC.
610 9TH STREET
FORTUNA, CA 95540
(707) 444-1420

ELECTRICAL ENGINEERING:
WHITCHURCH ENGINEERING, INC.
610 9TH STREET
FORTUNA, CA 95540
(707) 444-1420

SURVEYOR:
WHITCHURCH ENGINEERING, INC.
610 9TH STREET
FORTUNA, CA 95540
(707) 444-1420

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



This drawing or drawing set shall not be used for construction unless a jurisdictional stamp (County, City, State, Federal) has been issued on the drawing, stating "FOR PERMIT" or similar verbiage, a wet signed professional engineer's stamp, and permit documents have been issued for the project.

PLANS CHECK ONLY NOT FOR CONSTRUCTION

REVISIONS	BY

WHITCHURCH ENGINEERING, INC.
610 9th Street Fortuna, California 95540
Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS - ALL SITES
 ADDRESS: VARIOUS APN: VARIOUS
TITLE SHEET
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR 12 '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	T1

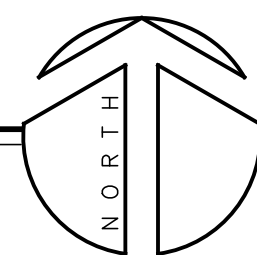
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PROJECT LOCATION
166 ISHI PISHI ROAD,
ORLEANS, CA 95556

LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 166 ISHI PISHI ROAD, ORLEANS, CA 95556
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – ORLEANS VOLUNTEER FIRE DEPARTMENT
 APN: 529-101-034
 ZONING – U – UNCLASSIFIED IMPROVED RURAL RESIDENTIAL
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – YES
 PROJECT SCOPE – CONSTRUCTION OF 1 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATION AND ASSOCIATED PARKING STALL
 BUILDING DEPARTMENT – HUMBOLDT COUNTY
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST: PENNY ECKERT ORLEANS VOLUNTEER FIRE DEPT. 166 ISHI PISHI ROAD ORLEANS, CA 95556 (425) 241-0415	APPLICANT: REDWOOD COAST ENERGY AUTHORITY c/o MIKE AVCOLLIE 633 THIRD STREET EUREKA, CA 95501 (707) 269-1700
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PROJECT CONSULTANTS

CIVIL ENGINEERING: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926	SURVEYOR: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926
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SHEET INDEX

- 1.1 VICINITY MAP & NOTES
- 1.2 SITE & GRADING PLAN
- 1.3 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF HUMBOLDT COUNTY PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE HUMBOLDT COUNTY ORDINANCE.

1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS. DEPTH OF TOPSOIL AVERAGES 0.5–1.0 FEET.
2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAT 1500 P.S.I. COMPRESSIVE STRENGTH.
6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.
10. EXCESS FILL MATERIAL SHALL BE HAULED TO AN APPROVED DIRT DISPOSAL SITE BY CONTRACTOR.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 0.5'–1.0' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS, STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS, REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

PRIOR TO ALL GROUND DISTURBING ACTIVITIES, CONTRACTOR SHALL COORDINATE WITH KARUK TRIBAL CULTURAL MONITOR. PLEASE CONTACT:

TRIBAL HISTORIC PRESERVATION OFFICER ALEX WATTS-TOBIN
 (530) 627-3446 EXT. 3015
 ATOBIN@KARUK.US
 39051 HIGHWAY 96, BOX 282,
 ORLEANS, CA 95556

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS.

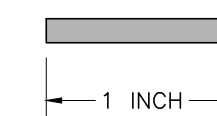
SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:

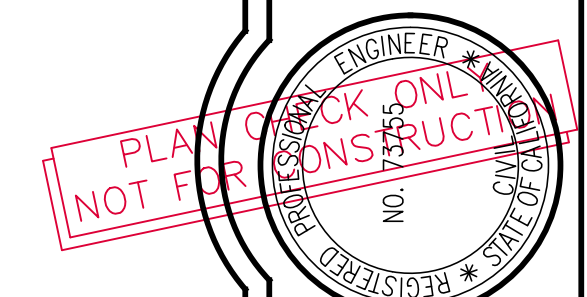
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

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REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
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RCEA ELECTRIC VEHICLE CHARGING STATION – ORLEANS FIRE DEPT.
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SITE VICINITY MAP & NOTES
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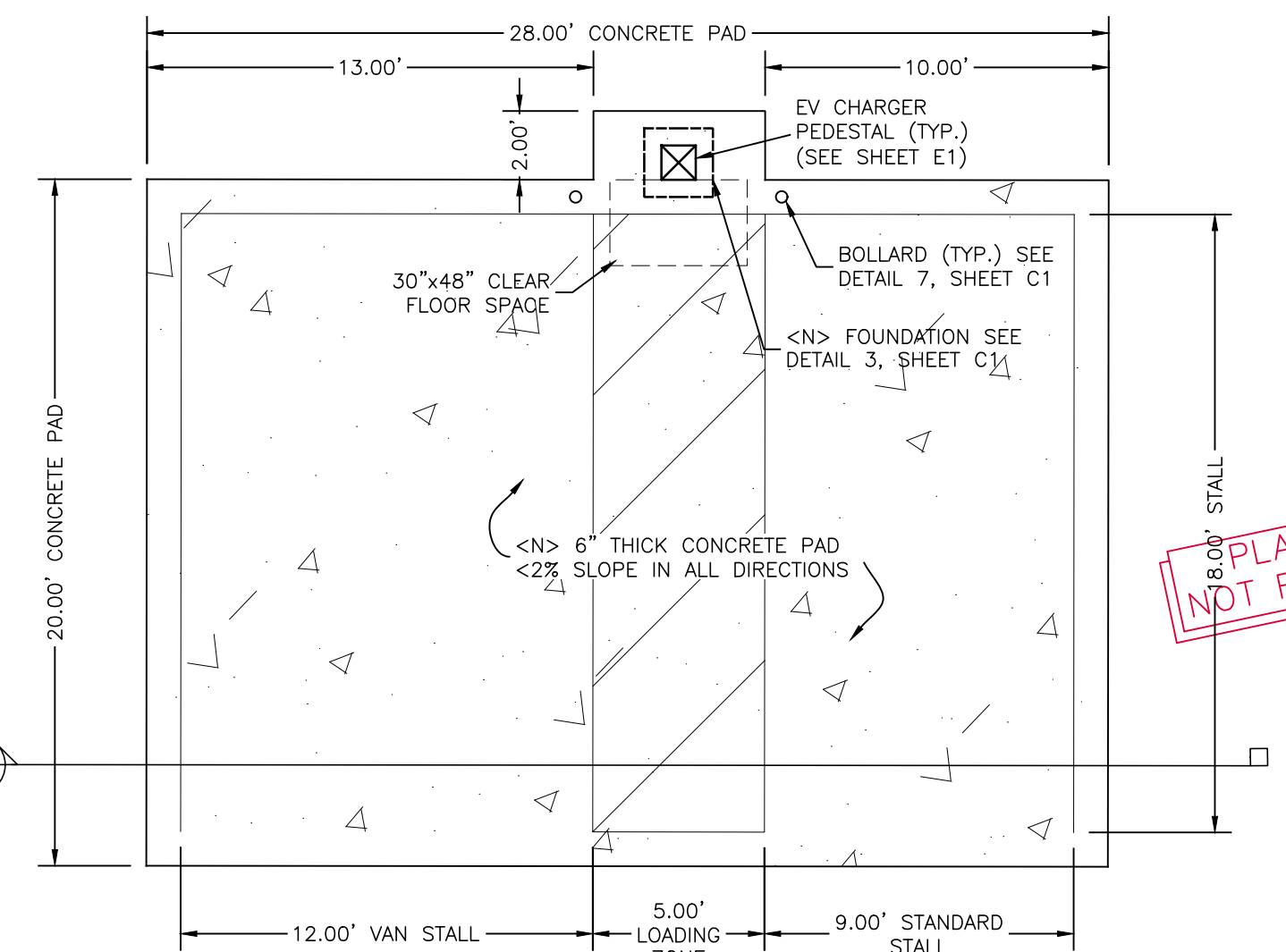
Date	MAR 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	1.1

SITE PLAN NOTES

1. SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 5, 2023. PROPERTY BOUNDARY LINES ARE FOR REFERENCE AND ARE NOT TO BE USED AS THE REAL BOUNDS.
2. NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
3. ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
4. CUSTOMER OWNED POLE TO COMPLY WITH PG&E GREENBOOK SECTION 025055.
5. EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

GRADING LEGEND

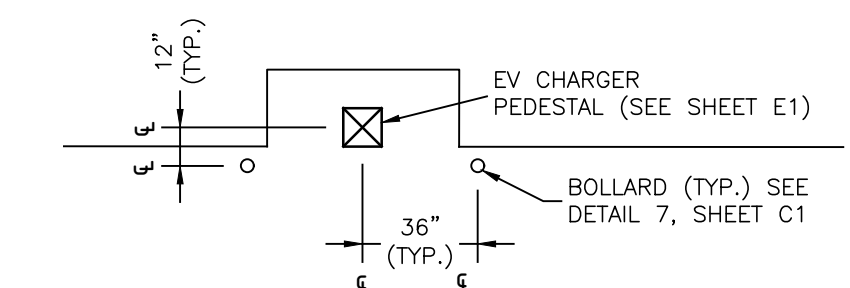
- 000.00 - EXISTING GRADE
- 000.00 - PROPOSED GRADE
- [Pattern] - PROPOSED CONCRETE
- [Pattern] - EXISTING AC PAVING
- [Pattern] - PROPOSED CONCRETE
- [Line] - MAJOR CONTOUR
- [Line] - MINOR CONTOUR
- [Line] - PROPERTY LINE



EVCS DETAIL
SCALE: 1"=5' *EVCS STRIPING PER DETAIL 8, SHEET C1 (TYP.)

ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG. AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DI DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD
- SWK. SIDEWALK
- TBR TO BE REMOVED
- TB TOP OF BANK
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTIL. UTILITY
- W. WATER
- W/ WITH
- WM WATER METER
- WV WATER VALVE



BOLLARD SPACING DETAIL
SCALE: 1"=5'

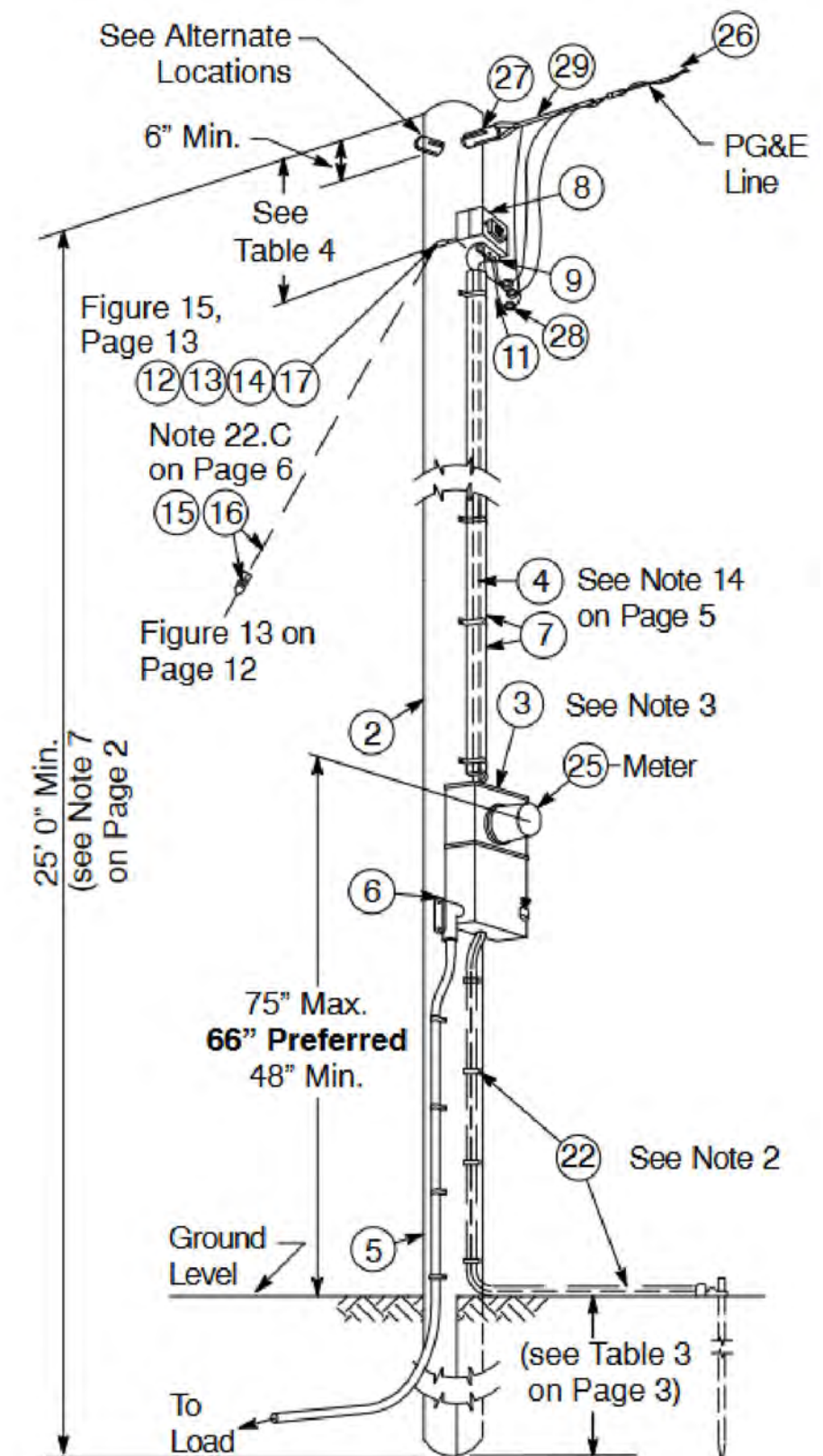
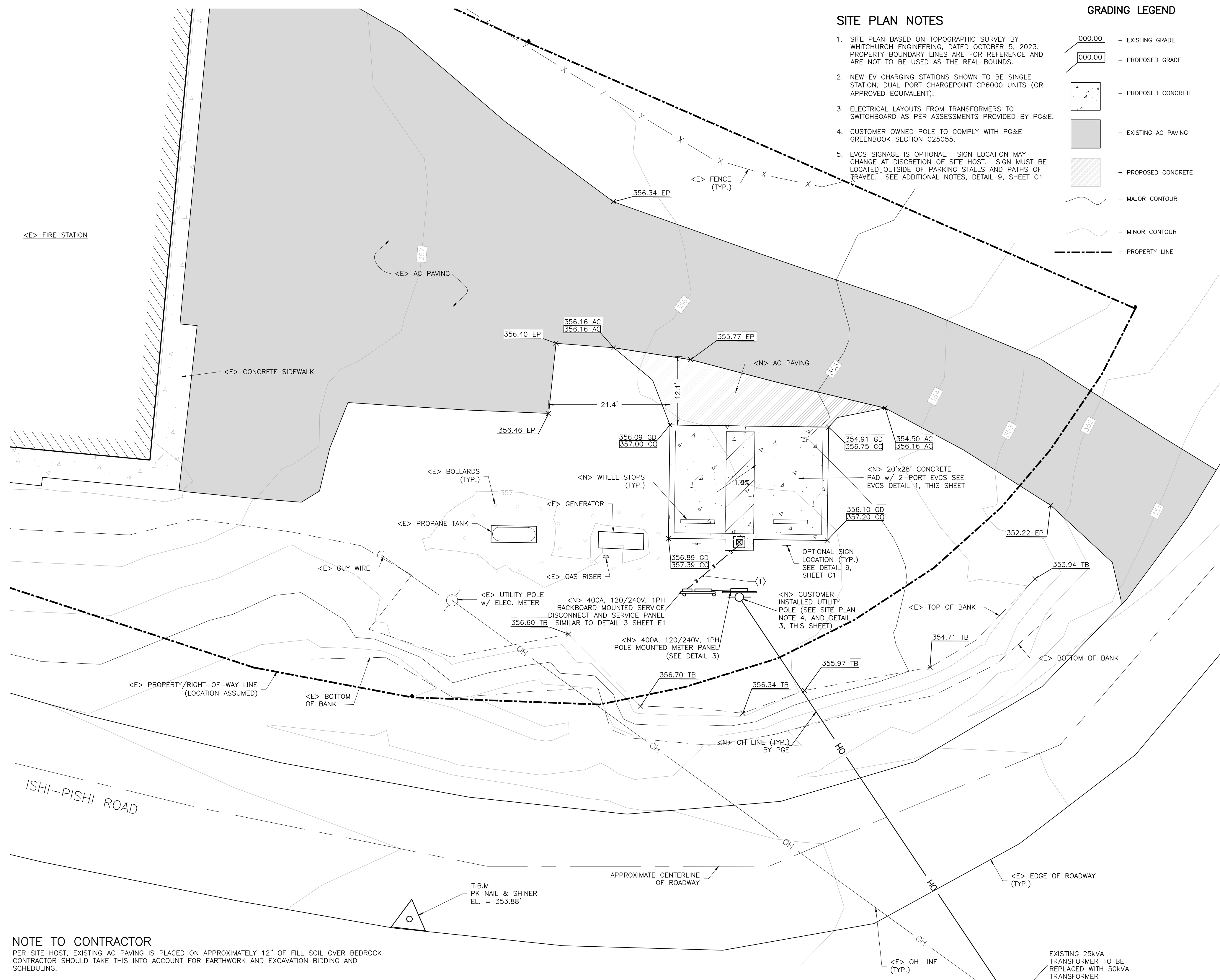


Figure 5
Service Drop Cable to Underground Line
CUSTOMER OWNED POLE
SCALE: N.T.S. COORDINATE THIS DETAIL WITH PGE GREENBOOK.



SITE & GRADING PLAN

SCALE: 1"=10'

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	8'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

CONDUIT & CONDUCTOR SCHEDULE

- NOTE:**
- 1) ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2KW, (2) 80A CIRCUITS @ 240V, (2) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 - 2) EACH CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT.

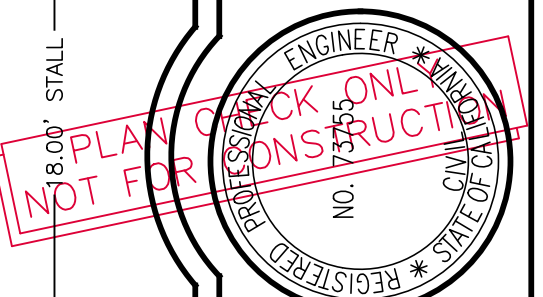
NOTE TO CONTRACTOR

PER SITE HOST, EXISTING AC PAVING IS PLACED ON APPROXIMATELY 12" OF FILL SOIL OVER BEDROCK. CONTRACTOR SHOULD TAKE THIS INTO ACCOUNT FOR EARTHWORK AND EXCAVATION BIDDING AND SCHEDULING.

GRADING NOTES

1. STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. WHITCHURCH ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
3. TOPOGRAPHIC DATA IS BASED ON WHITCHURCH ENGINEERING SURVEY DATED OCTOBER 5, 2023 AND EXISTING RIGHT OF WAY SURFACE FEATURES FOUND ON SITE. ACTUAL BOUNDARY LINES AND EASEMENTS ARE NOT REPRESENTED IN THIS DRAWING.
4. TEMPORARY BENCHMARK NEAR THE SOUTHERN EDGE OF ISHI-PISHI ROAD, DIRECTLY SOUTH OF THE ORLEANS FIRE STATION. P.K. NAIL & SHINER WITH AN ASSUMED ELEVATION OF 353.88'. VERTICAL DATUM IS ASSUMED.
5. CONTOURS SHOWN AT 1' INTERVAL.
6. DATUM IS NAD83

REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
610 9th Street, Fortuna, California 95540
Phone (707) 444-1420

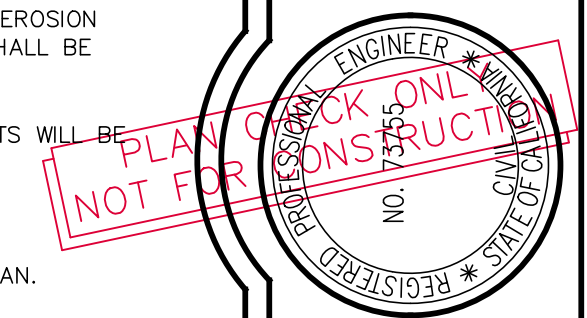
RCEA ELECTRIC VEHICLE CHARGING STATION - ORLEANS FIRE DEPT.
166 ISHI PISHI ROAD, ORLEANS, CA 95556
APN: 529-101-034
SITE & GRADING PLAN
For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
3/17/2024

Date: MAR 12, '24
Scale: AS NOTED
Design: ZDJ
Drawn: ALW
Job: REA 2301
Sheet:

1.2

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REVISIONS	BY



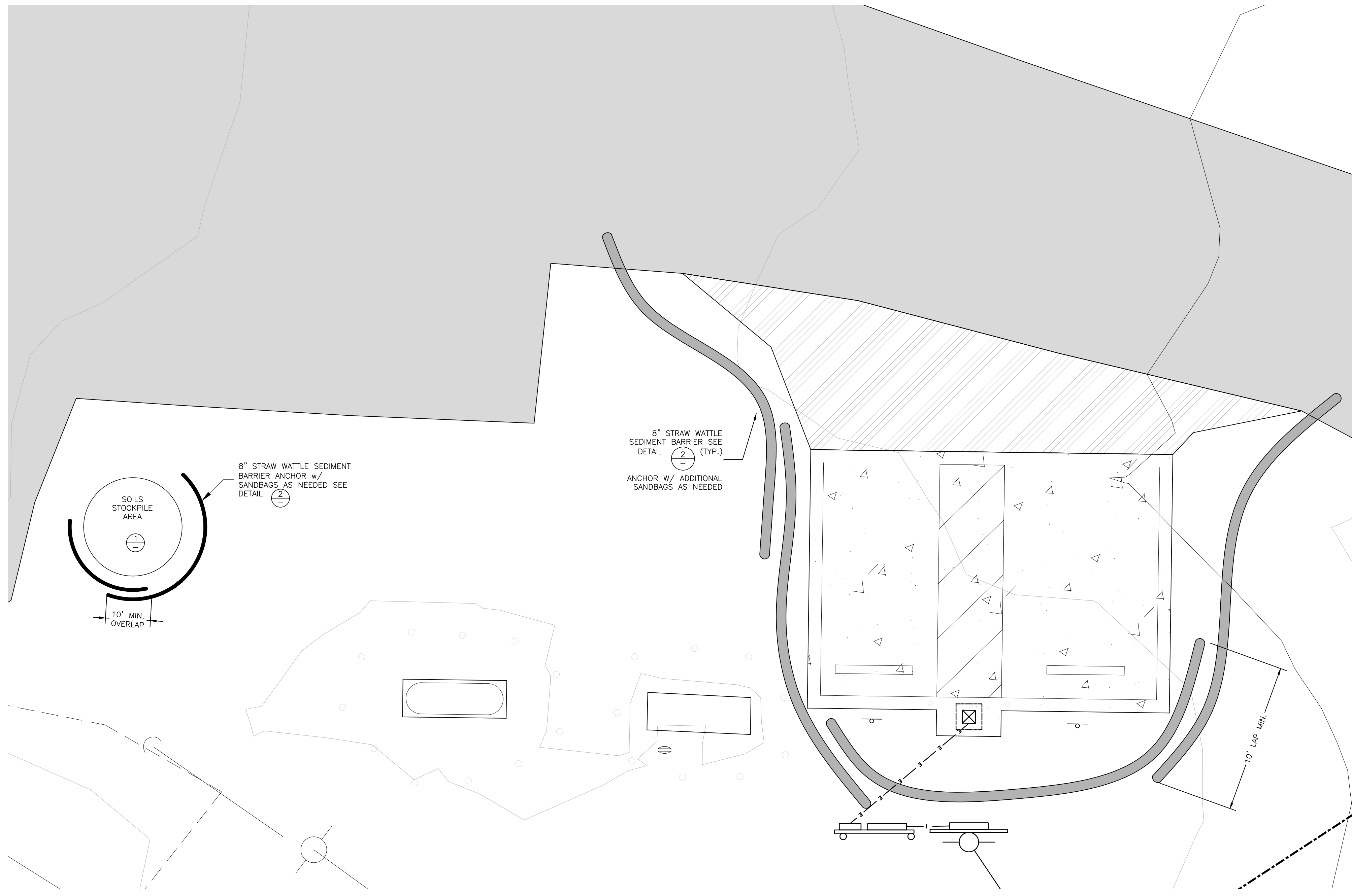
WHITCHURCH ENGINEERING, INC.
 610 9th Street, Fortuna, California 95540
 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATION - ORLEANS FIRE DEPT.
 166 ISHII PISHI ROAD, ORLEANS, CA 95556
 APN: 529-101-034
EROSION CONTROL PLAN
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	1.3

EROSION CONTROL NOTES

- A. GENERAL**
- THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
 - THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
 - THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
 - A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.
- B. WATER COURSES**
- EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
 - CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
 - TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
 - TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
 - EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
 - A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
 - ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
- C. DISPOSAL OF EXCAVATED MATERIALS**
- EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.
- D. DUST CONTROL**
- EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.
- E. REMOVAL OF VEGETATION AND REVEGETATION**
- VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.
 - FINAL REPORTS AND NOTIFICATION OF COMPLETION
 - UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEERED GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
 - THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.
- POST CONSTRUCTION BMP'S**
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
 - ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.
- GENERAL NOTE**
- NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.

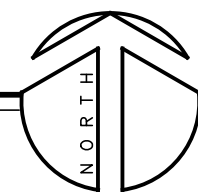


SITE PLAN NOTES

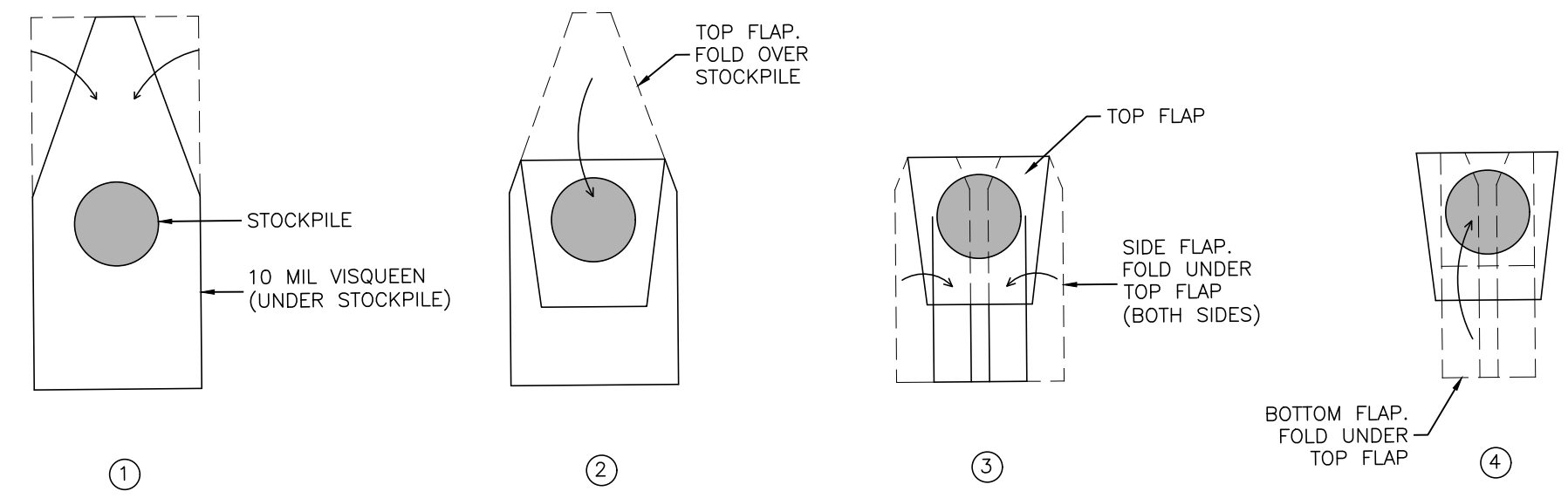
- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 5, 2023. PROPERTY BOUNDARY LINES ARE FOR REFERENCE AND ARE NOT TO BE USED AS THE REAL BOUNDS.

EROSION CONTROL PLAN

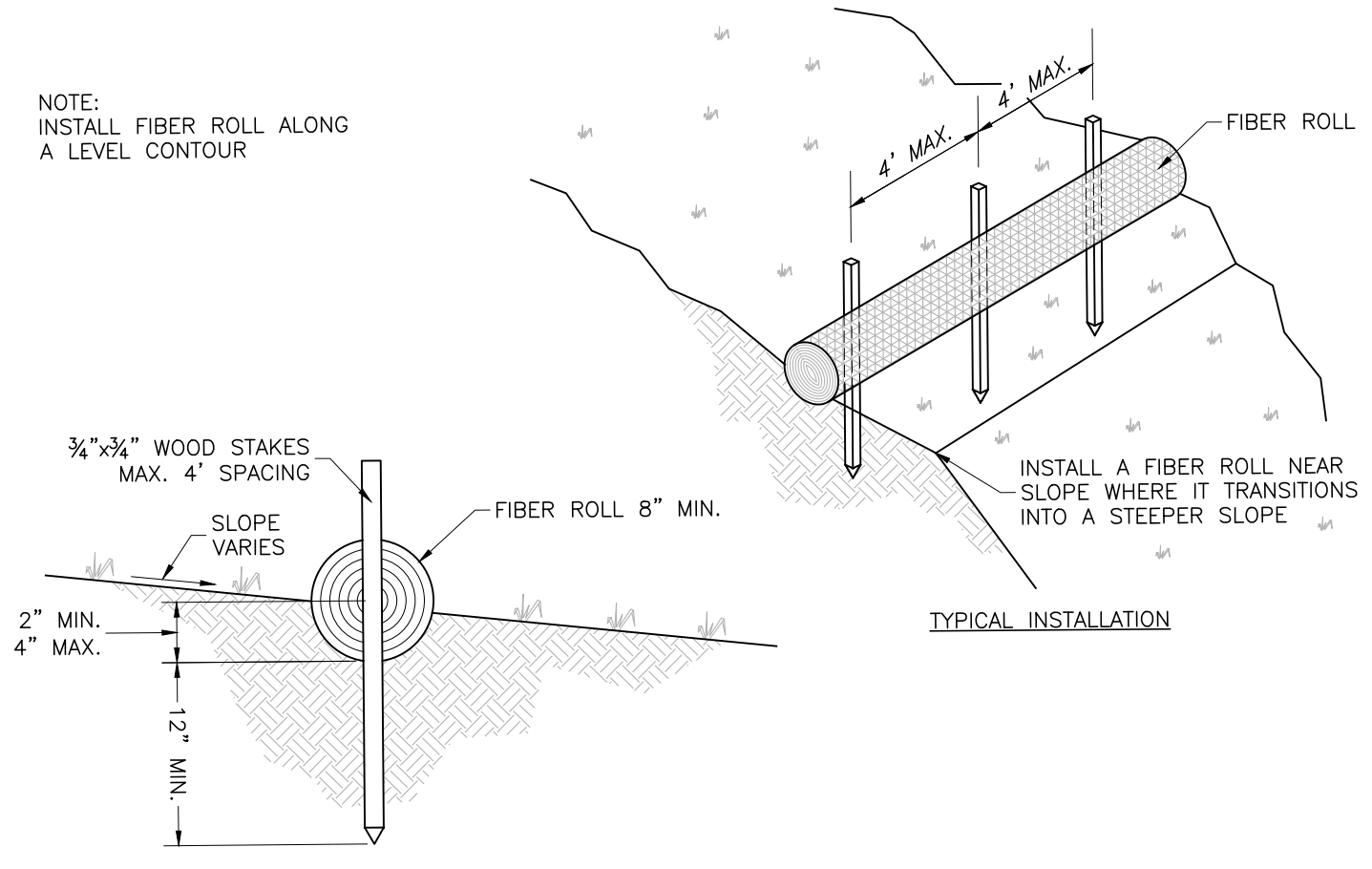
SCALE: 1"=5'



NOTE: INSTALL FIBER ROLL ALONG A LEVEL CONTOUR

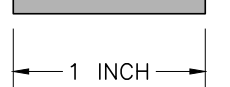


1 BURRITO WRAP STOCK PILE CONTAINMENT
NO SCALE



2 STRAW WATTLE/FIBER ROLL DETAIL
NO SCALE

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.

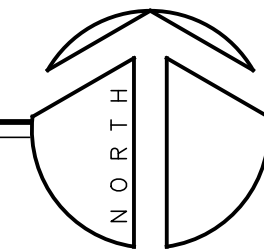


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LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 1620 PICKETT ROAD, MCKINLEYVILLE, CA 95519
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
 APN: 510-401-027
 ZONING – PF, CS – PUBLIC FACILITY, COMMERCIAL SERVICES
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – NO
 PROJECT SCOPE – CONSTRUCTION OF 2 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATIONS AND ASSOCIATED PARKING STALLS
 BUILDING DEPARTMENT – HUMBOLDT COUNTY
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST: LESLEY FRISBEE MCKINLEYVILLE COMM. SERVICES DIST. 1620 PICKETT ROAD MCKINLEYVILLE, CA 95519 (707) 839-9003	APPLICANT: REDWOOD COAST ENERGY AUTHORITY c/o MIKE AVCOLLIE 633 THIRD STREET EUREKA, CA 95501 (707) 269-1700
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PROJECT CONSULTANTS

CIVIL ENGINEERING: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926	SURVEYOR: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926
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SHEET INDEX

- 2.1 VICINITY MAP & NOTES
- 2.2 SITE PLAN
- 2.3 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970 AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF HUMBOLDT COUNTY PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

- ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE HUMBOLDT COUNTY ORDINANCE.
1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON NATIVE SANDY GRAVEL CLAY. DEPTH OF TOPSOIL AVERAGES 1–1.5 FEET.
 2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
 3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
 4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
 5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAT 1500 P.S.I COMPRESSIVE STRENGTH.
 6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
 7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
 8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
 9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 1'–1.5' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS, REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

- THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:
1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
 2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
 3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
 4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
 5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
 6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
 7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

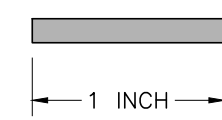
DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

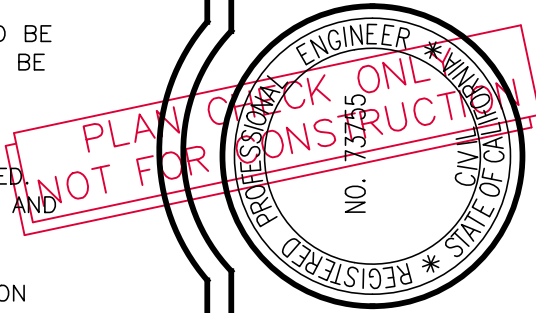
DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

- HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
 2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
 3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
 4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
 5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
 6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
 7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
 8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.
 9. ACCESS, INCLUDING LANDSCAPED ACCESS SHALL BE MAINTAINED TO THE LIBRARY AT ALL TIMES. ACCESS TO EXISTING PARKING LOT SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL MINIMIZE IMPACT TO USE OF EXISTING PARKING STALLS TO THE MAXIMUM EXTENT POSSIBLE.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



REVISIONS	BY



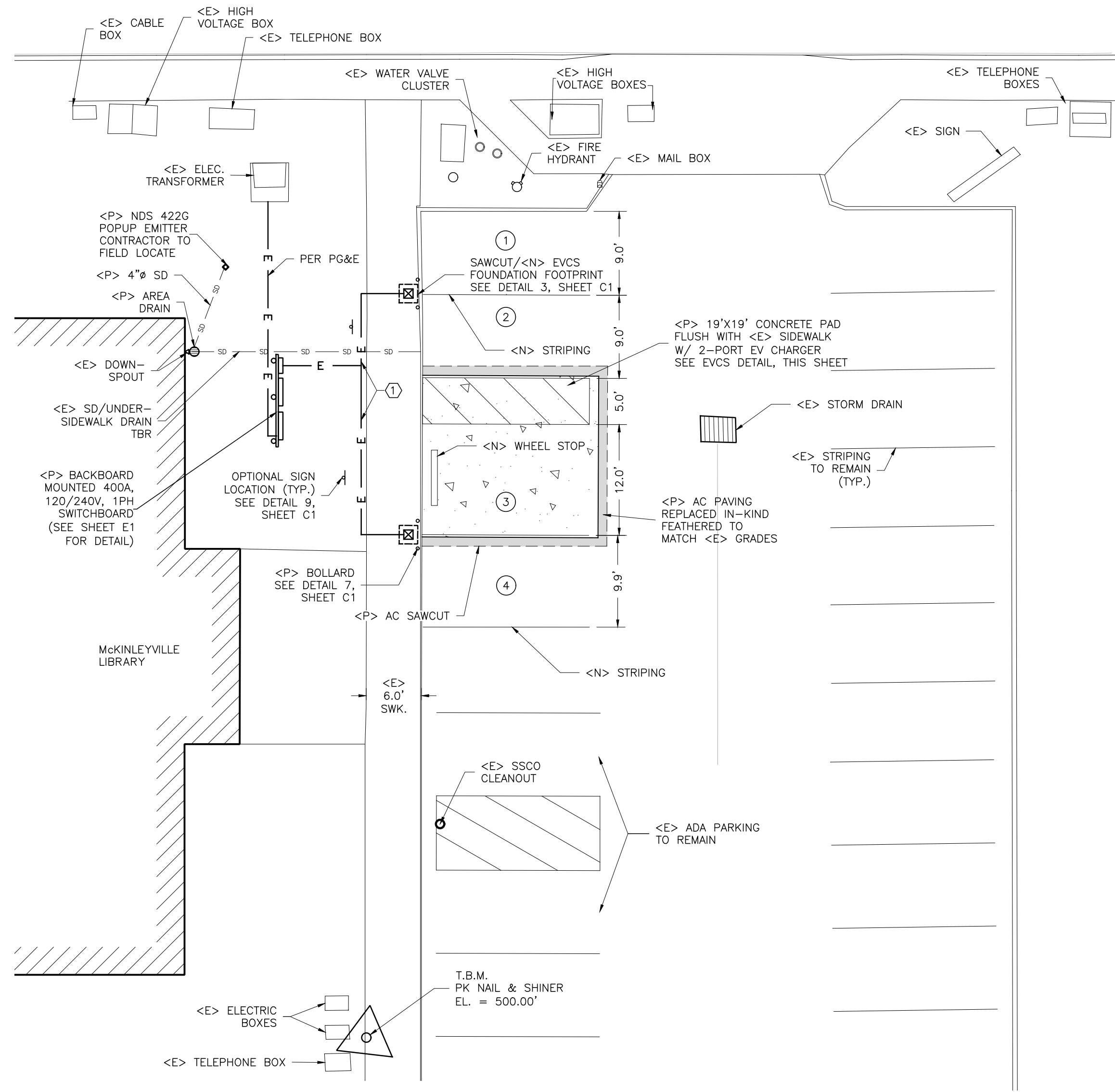
WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS
 — AZALEA HALL MCKINLEYVILLE
 1620 PICKETT ROAD, MCKINLEYVILLE, CA 95519 APN: 510-401-027
SITE VICINITY MAP & NOTES

Date	MAR. 12, 24'
Scale	AS NOTED
Design	ALW
Drawn	ALW
Job	REA 2301
Sheet	2.1

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PICKETT ROAD



SITE PLAN

SCALE: 1"=10'

SITE PLAN NOTES

- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED DECEMBER 8, 2023. PROPERTY BOUNDARY LINES ARE FOR REFERENCE AND ARE NOT TO BE USED AS THE REAL BOUNDS.
- NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
- ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
- CONTRACTOR SHALL SAWCUT AS NECESSARY FOR INSTALLATION.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO <E> SIDEWALKS/LANDSCAPE TO THE EXTENT POSSIBLE.
- ALL <E> SIDEWALKS SHALL REMAIN.
- EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

GRADING NOTES

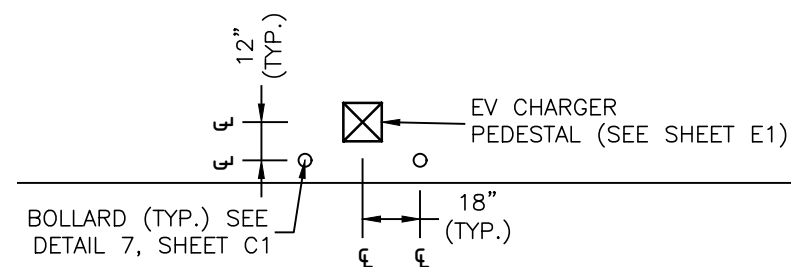
- STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. WHITCHURCH ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
- TOPOGRAPHIC DATA IS BASED ON WHITCHURCH ENGINEERING SURVEY DATED DECEMBER 8, 2023 AND EXISTING RIGHT OF WAY SURFACE FEATURES FOUND ON SITE. ACTUAL BOUNDARY LINES AND EASEMENTS ARE NOT REPRESENTED IN THIS DRAWING.
- TEMPORARY BENCHMARK NEAR THE SOUTH EAST CORNER OF THE MCKINLEYVILLE LIBRARY, OFF OF PICKETT ROAD. P.K. NAIL & SHINER WITH AN ASSUMED ELEVATION OF 500.00'. VERTICAL DATUM IS ASSUMED.
- CONTOURS SHOWN AT 1' INTERVAL.
- DATUM IS NAD83.

GRADING LEGEND

- 000.00 - EXISTING GRADE
- 000.00 - PROPOSED GRADE
- PROPOSED CONCRETE
- PROPOSED AC PAVING
- EXISTING CONCRETE TO REMAIN
- EXISTING CONCRETE TO BE REMOVED
- MAJOR CONTOUR
- MINOR CONTOUR

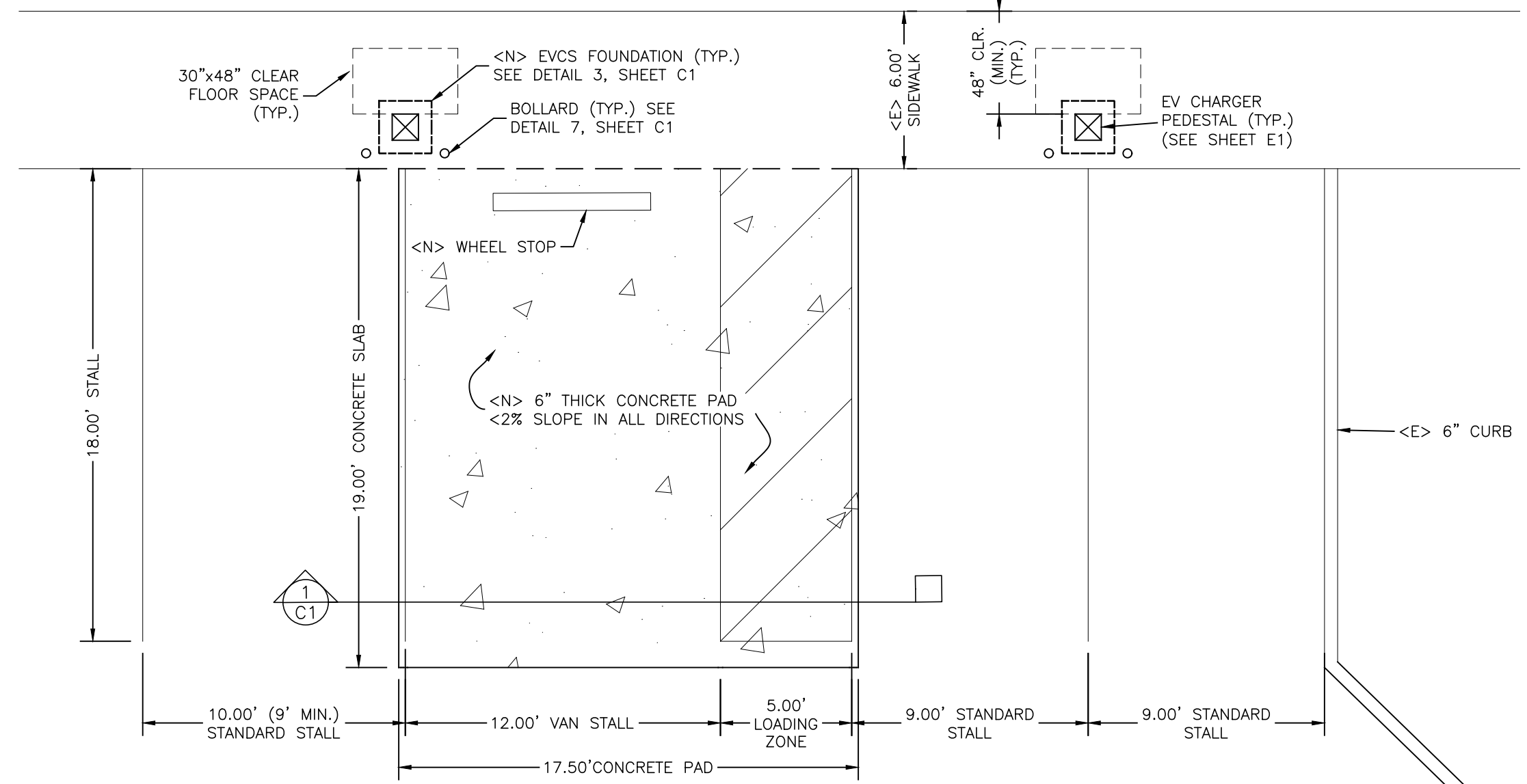
ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG. AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DII DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD
- SWK. SIDEWALK
- TBR TO BE REMOVED
- TB TOP OF BANK
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTIL. UTILITY
- W WATER
- WM WATER METER
- WV WATER VALVE



BOLLARD SPACING DETAIL

SCALE: 1"=5'



EVCS DETAIL

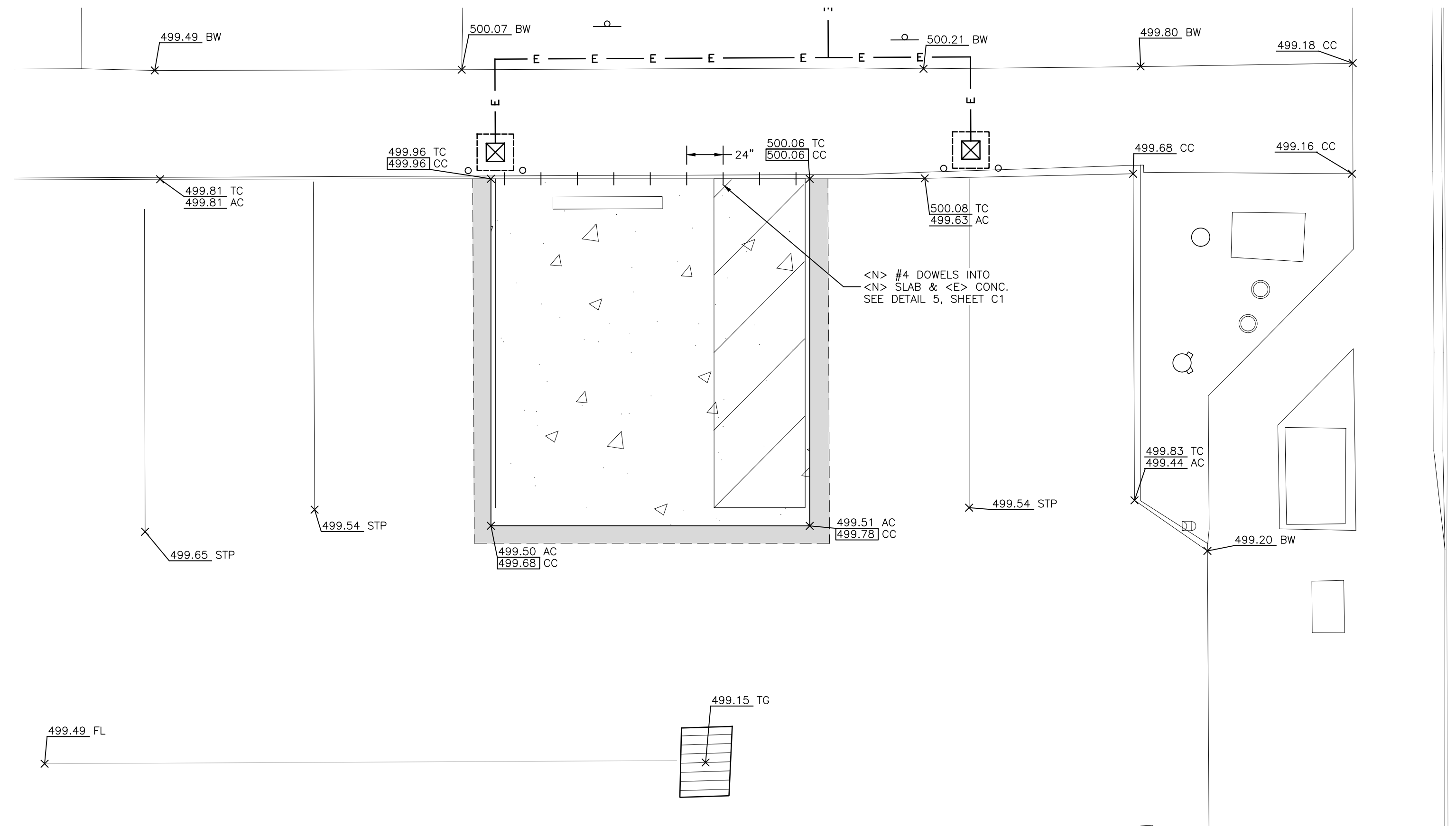
SCALE: 1"=5'

*EVCS STRIPING PER DETAIL 8, SHEET C1 (TYP.)

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE PER RUN	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	27'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

CONDUIT & CONDUCTOR SCHEDULE

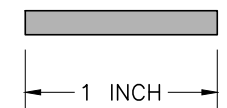
- NOTE:
- ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2kW, (4) 80A CIRCUITS @ 240V, (4) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 - EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGER PORT.



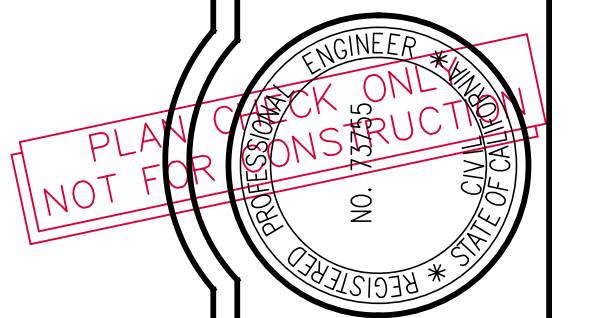
GRADING PLAN

SCALE: 1"=5'

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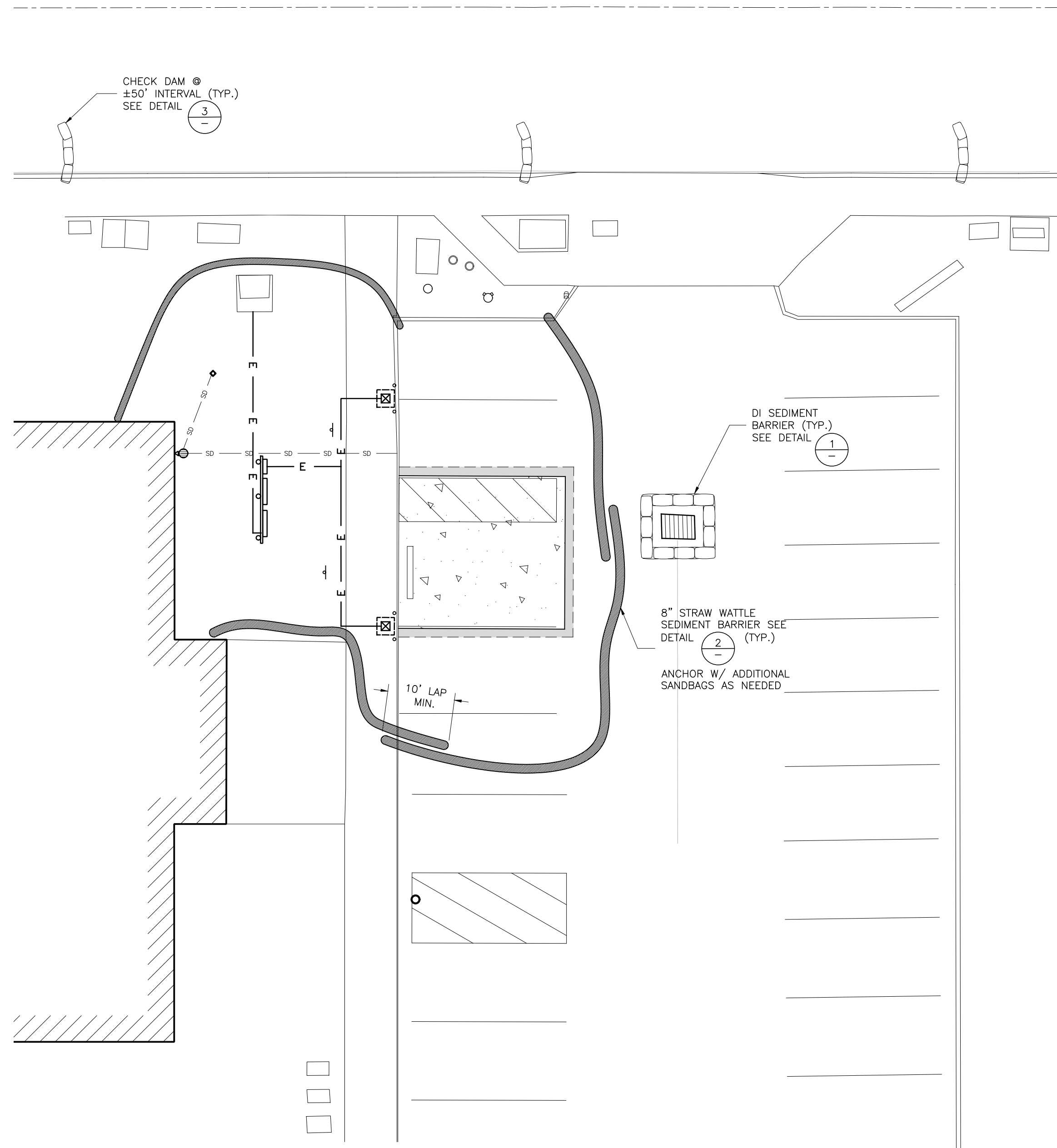
WHITCHURCH ENGINEERING, INC.
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- AZALEA HALL MCKINLEYVILLE
1620 PICKETT ROAD, MCKINLEYVILLE, CA 95519 APN: 510-401-027
SITE AND GRADING PLAN
For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
APN: 510-401-027

Date MAR. 12, 24'
Scale AS NOTED
Design ALW
Drawn ALW
Job REA 2301
Sheet

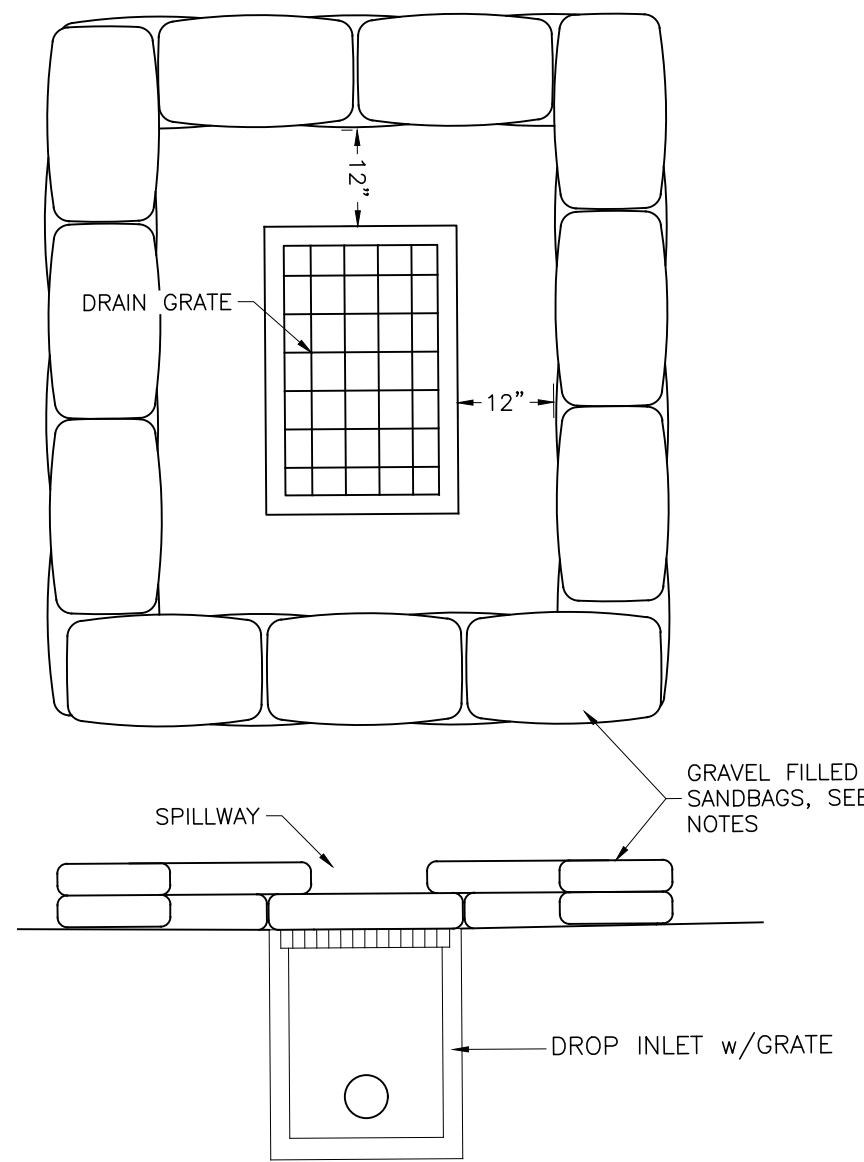
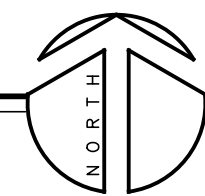
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EROSION CONTROL PLAN

SCALE: 1"=10'

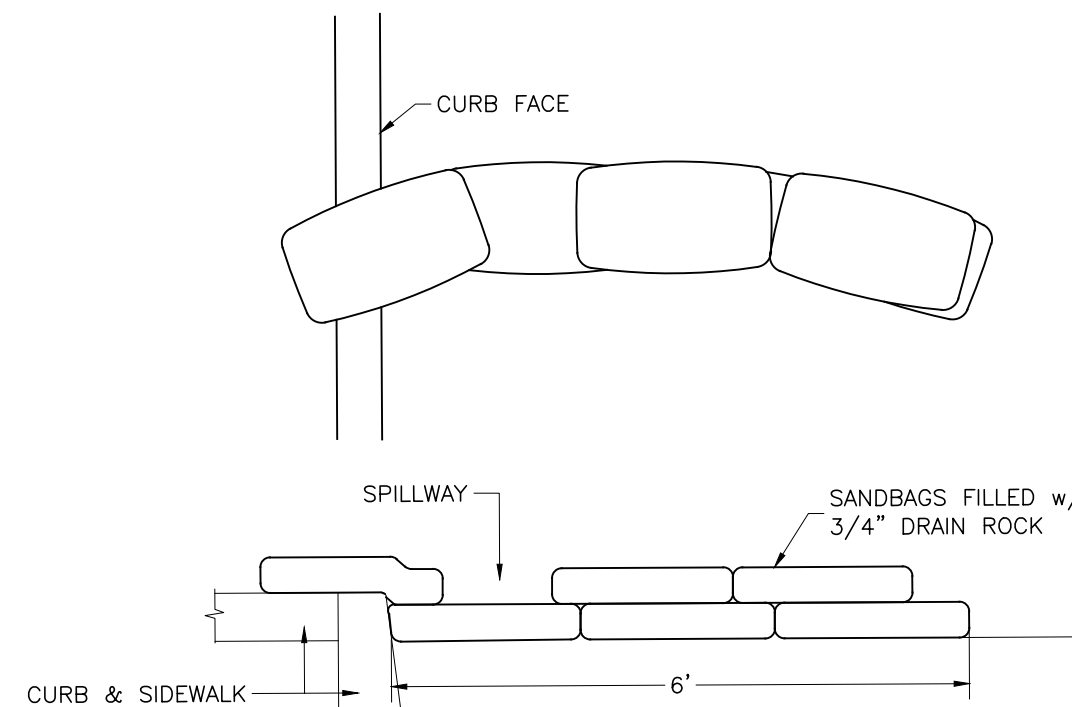


1 DI PROTECTION DETAIL

NO SCALE

NOTES:

- 1.) CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- 2.) PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- 3.) LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- 4.) INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
- 5.) SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- 6.) SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- 7.) SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.



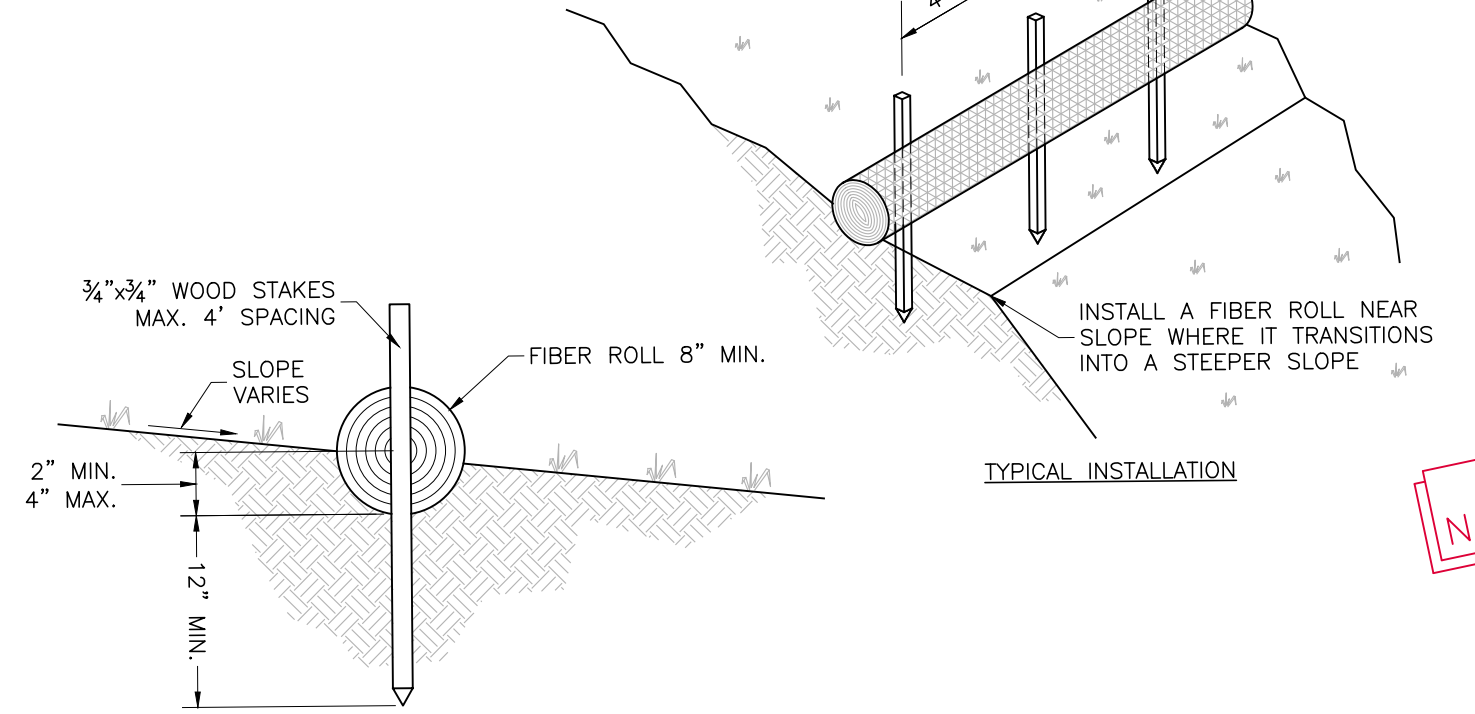
3 CHECK DAM DETAIL

NO SCALE

NOTES:

- 1.) CONSTRUCT AROUND DRAINAGE INLETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- 2.) PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- 3.) LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- 4.) INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (6").
- 5.) SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- 6.) SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- 7.) SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.
- 8.) POST ROAD PAVING, FULL DI PROTECTION CAN BE REPLACED WITH CHECK DAMS IN THE GUTTER.

NOTE:
INSTALL FIBER ROLL ALONG A LEVEL CONTOUR



ENTRENCHMENT DETAIL

2 STRAW WATTLE/FIBER ROLL DETAIL

NO SCALE

EROSION CONTROL NOTES

A. GENERAL

1. THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
2. THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
3. THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
4. A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
5. THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.

B. WATER COURSES

1. EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
2. CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
3. TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
4. TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
5. EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
6. A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
7. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.

C. DISPOSAL OF EXCAVATED MATERIALS

1. EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.

D. DUST CONTROL

1. EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.

E. REMOVAL OF VEGETATION AND REVEGETATION

1. VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.

F. FINAL REPORTS AND NOTIFICATION OF COMPLETION

1. UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEER GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
2. THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.

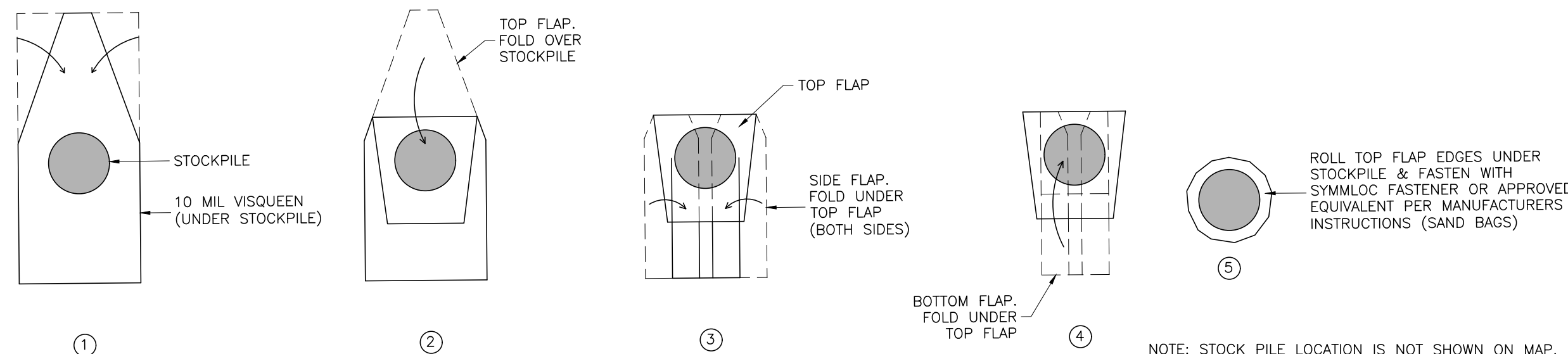
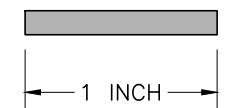
POST CONSTRUCTION BMP'S

1. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
2. ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.

GENERAL NOTE

NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.

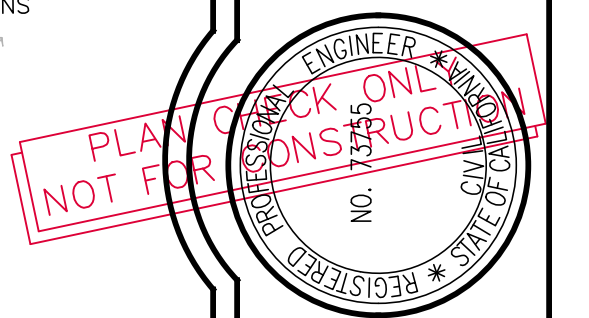
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4 BURRITO WRAP STOCK PILE CONTAINMENT

NO SCALE

REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS
 — AZALEA HALL MCKINLEYVILLE
 1620 PICKETT ROAD, MCKINLEYVILLE, CA 95519
 APN: 510-401-027

EROSION CONTROL PLAN
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
 2/19/2024 10:00 AM

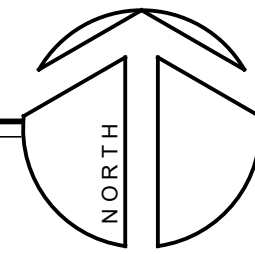
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Scale	AS NOTED
Design	ALW
Drawn	ALW
Job	REA 2301
Sheet	2.3

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LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 3800 JANES ROAD, ARCATA, CA 95521
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – MAD RIVER COMMUNITY HOSPITAL
 APN: 507-191-033
 ZONING – PFPD – PUBLIC FACILITY PLANNED DEVELOPMENT
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – NO
 PROJECT SCOPE – CONSTRUCTION OF 2 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATIONS AND ASSOCIATED PARKING STALLS
 BUILDING DEPARTMENT – CITY OF ARCATA
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST:
 DANA JOHNSON
 MAD RIVER COMMUNITY HOSPITAL
 3800 JANES ROAD
 ARCATA, CA 95521
 (707) 825-4914

APPLICANT:
 REDWOOD COAST ENERGY AUTHORITY
 c/o MIKE AVCOLLIE
 633 THIRD STREET
 EUREKA, CA 95501
 (707) 269-1700

PROJECT CONSULTANTS

CIVIL ENGINEERING:
 WHITCHURCH ENGINEERING, INC.
 610 9th STREET
 FORTUNA, CA 95540
 (707) 725-6926

SURVEYOR:
 WHITCHURCH ENGINEERING, INC.
 610 9th STREET
 FORTUNA, CA 95540
 (707) 725-6926

SHEET INDEX

- 3.1 VICINITY MAP & NOTES
- 3.2 SITE PLAN
- 3.3 DETAILED SITE PLAN
- 3.4 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR CITY OF ARCATA DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF CITY OF ARCATA PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

- ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE CITY OF ARCATA ORDINANCE.
1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS.
 2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
 3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24”) RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
 4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6” THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
 5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAN 1500 P.S.I COMPRESSIVE STRENGTH.
 6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
 7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
 8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
 9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10’ HORIZONTAL DISTANCE.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 1'-1.5' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED, THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS, REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

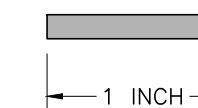
DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

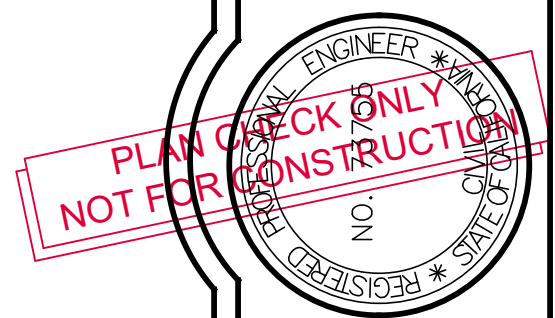
DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

- HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
 2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
 3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
 4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
 5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
 6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
 7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
 8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

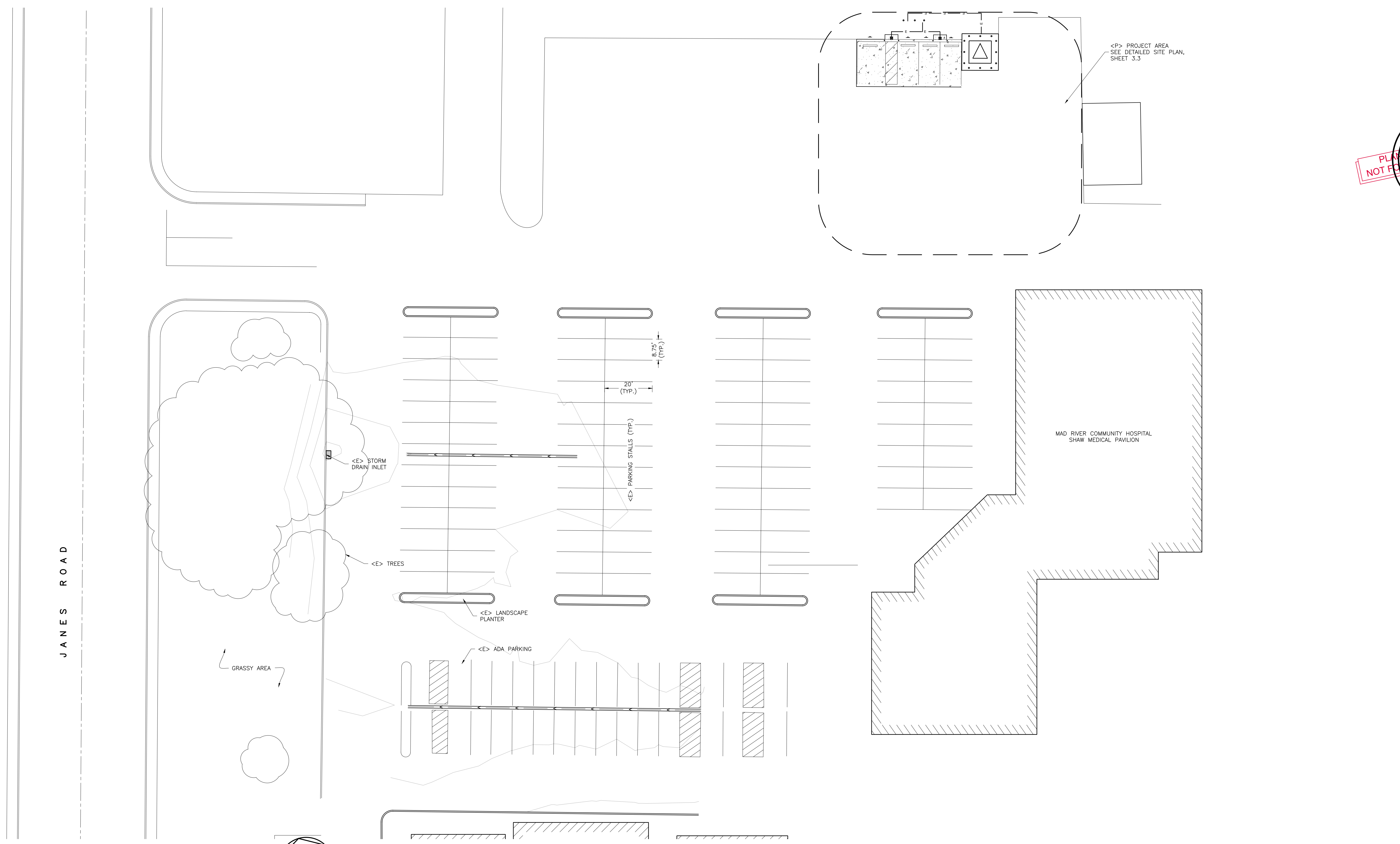
**RCEA ELECTRIC VEHICLE CHARGING STATION
 MAD RIVER COMMUNITY HOSPITAL**
 3800 Janes Road, Arcata, CA 95521
 APN: 507-191-033

LOCATION MAP & NOTES

For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

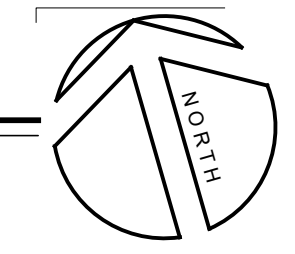
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Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	3.1

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SITE PLAN

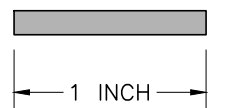
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SITE PLAN NOTES

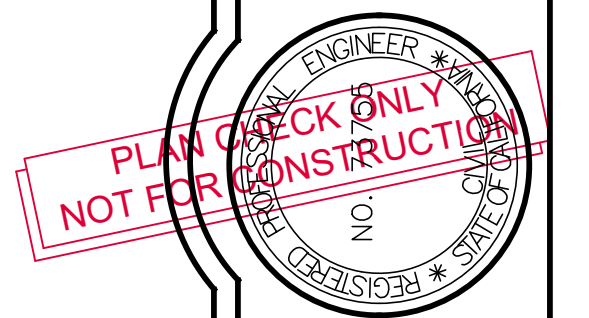
1. SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 12, 2023 AND GOOGLE EARTH IMAGING.

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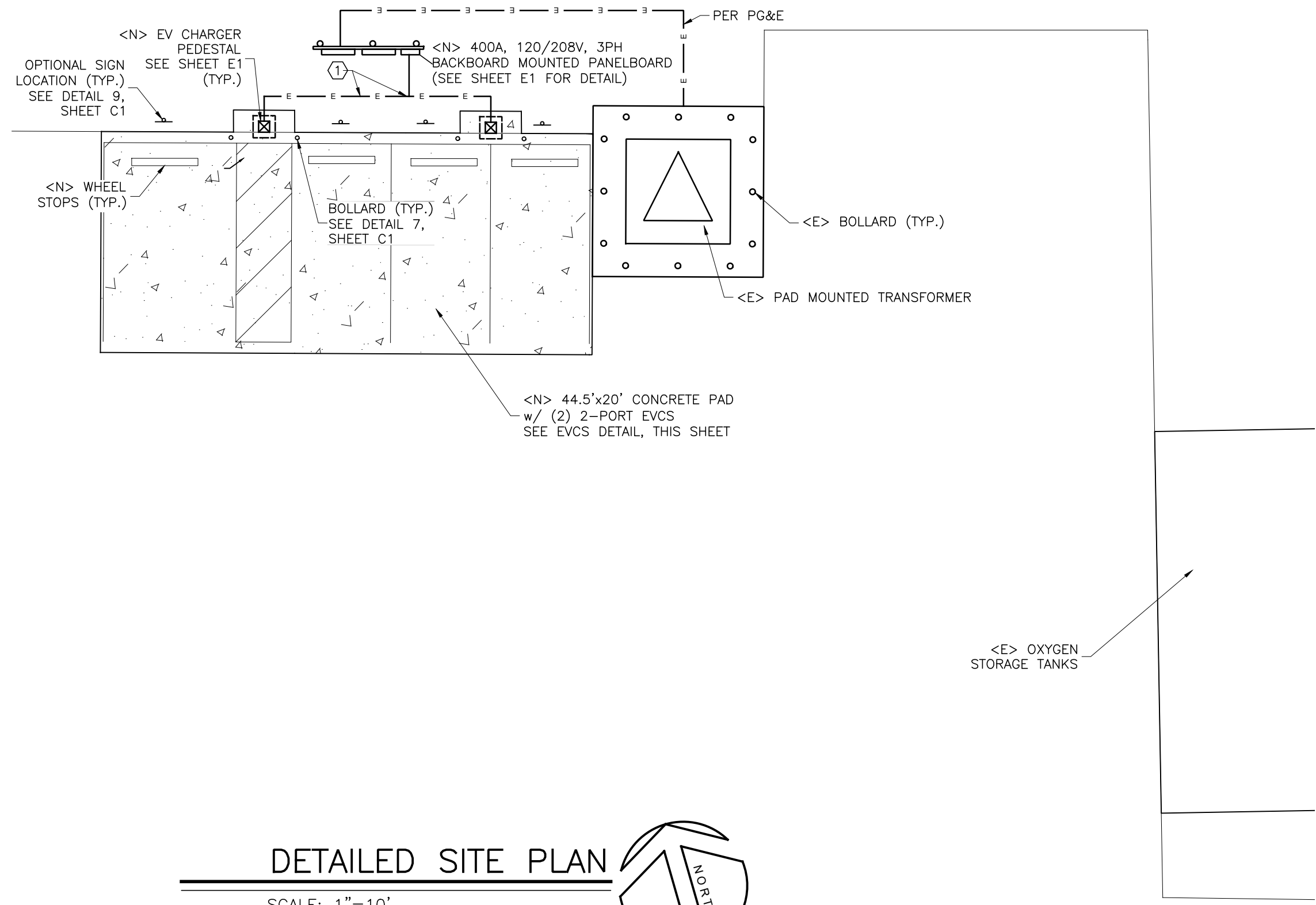
**RCEA ELECTRIC VEHICLE CHARGING STATION
 — MAD RIVER COMMUNITY HOSPITAL**
 3800 James Road, Arcata, CA 95521
 APN: 507-191-033

SITE PLAN

For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

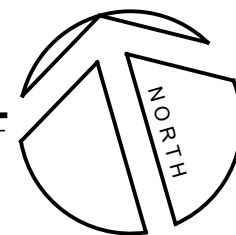
Date MAR. 12, '24
 Scale AS NOTED
 Design ZDU
 Drawn ALW
 Job REA 2301
 Sheet

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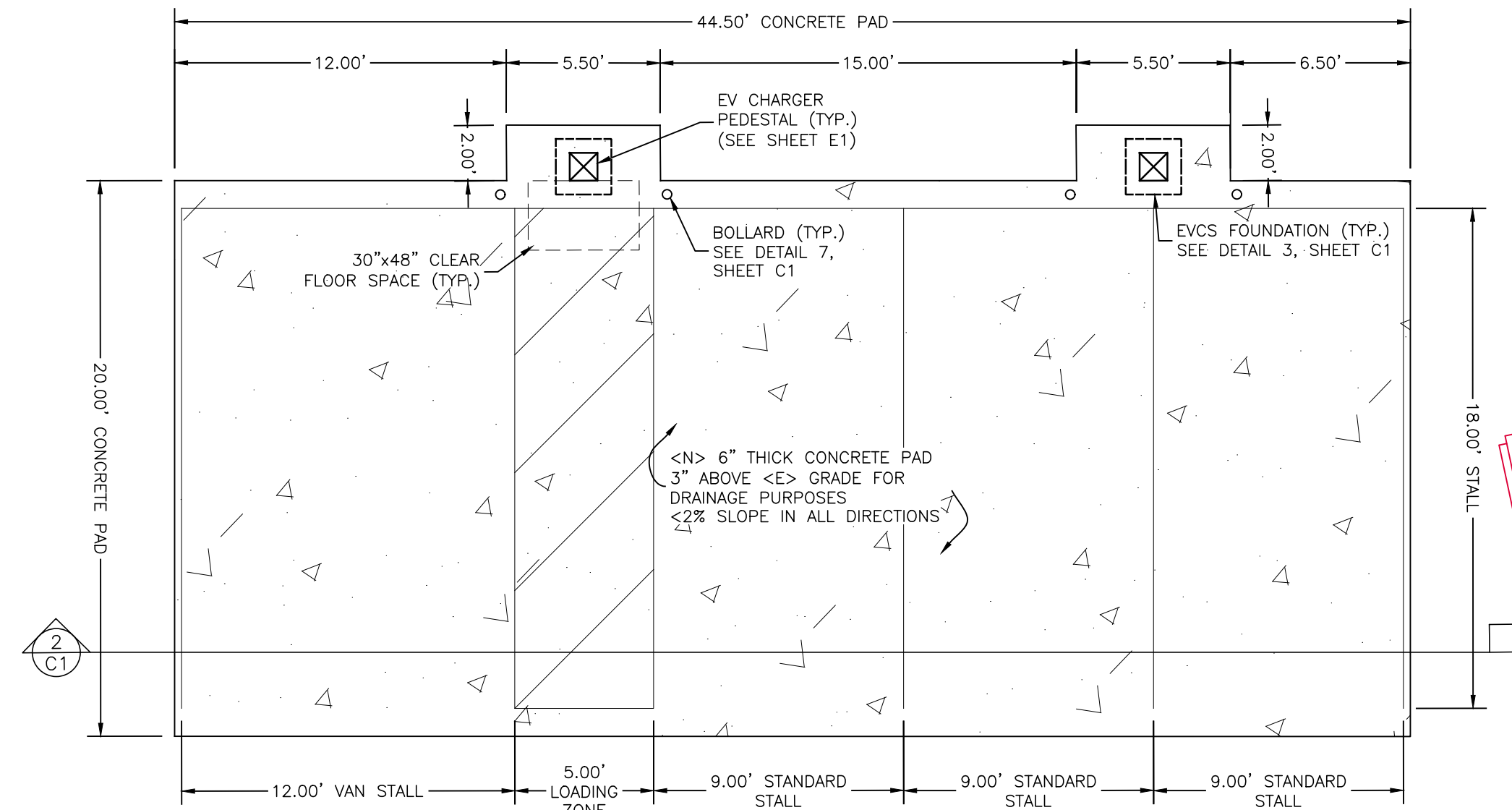
DETAILED SITE PLAN

SCALE: 1"=10'



ABBREVIATIONS

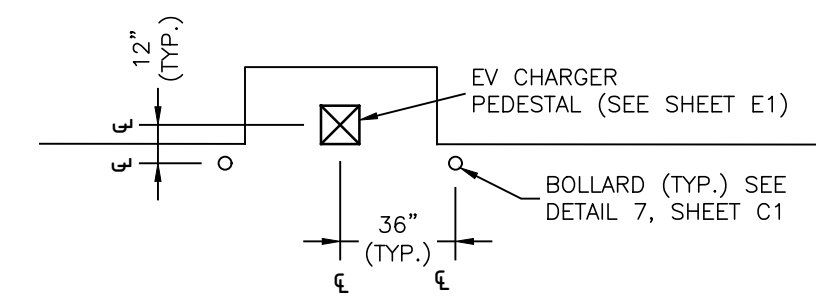
AC	ASPHALT CONCRETE
AGG.	AGGREGATE
CC	CONCRETE
CL	CENTERLINE
CONC.	CONCRETE
DI	DRAINAGE INLET
<E>	EXISTING
EL	ELEVATION
ELEC.	ELECTRICAL
EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FL	FLOW LINE
GD	GROUND
GM	GAS METER
GRD	GROUND
JB	JOINT UTILITY POLE
JB	JUNCTION BOX
MH	MANHOLE
MIN.	MINIMUM
<N>	NEW
<P>	PROPOSED
RD.	ROAD
R/W	RIGHT OF WAY
SD	STORM DRAIN
S.F.	SQUARE FOOT
SD	STANDARD
SWK.	SIDEWALK
TBR	TO BE REMOVED
TC	TOP OF CURB
TYP.	TYPICAL
THK.	THICK
UTIL.	UTILITY
W	WATER
W/	WITH
WM	WATER METER
WV	WATER VALVE



1 EVCS DETAIL

SCALE: 1"=5'

*EVCS STRIPING PER DETAIL 8, SHEET C1 (TYP.)



2 BOLLARD SPACING DETAIL

SCALE: 1"=5'

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE PER RUN	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	16'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

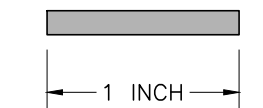
CONDUIT & CONDUCTOR SCHEDULE

- NOTE:
- ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2kW, (4) 80A CIRCUITS @ 240V. (4) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 - EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT.

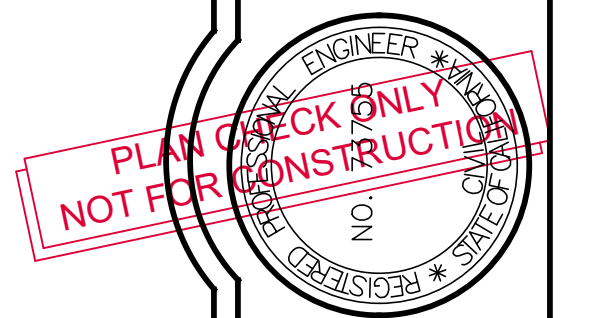
SITE PLAN NOTES

- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 12, 2023 AND GOOGLE EARTH IMAGING.
- NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
- ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
- EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

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REVISIONS	BY



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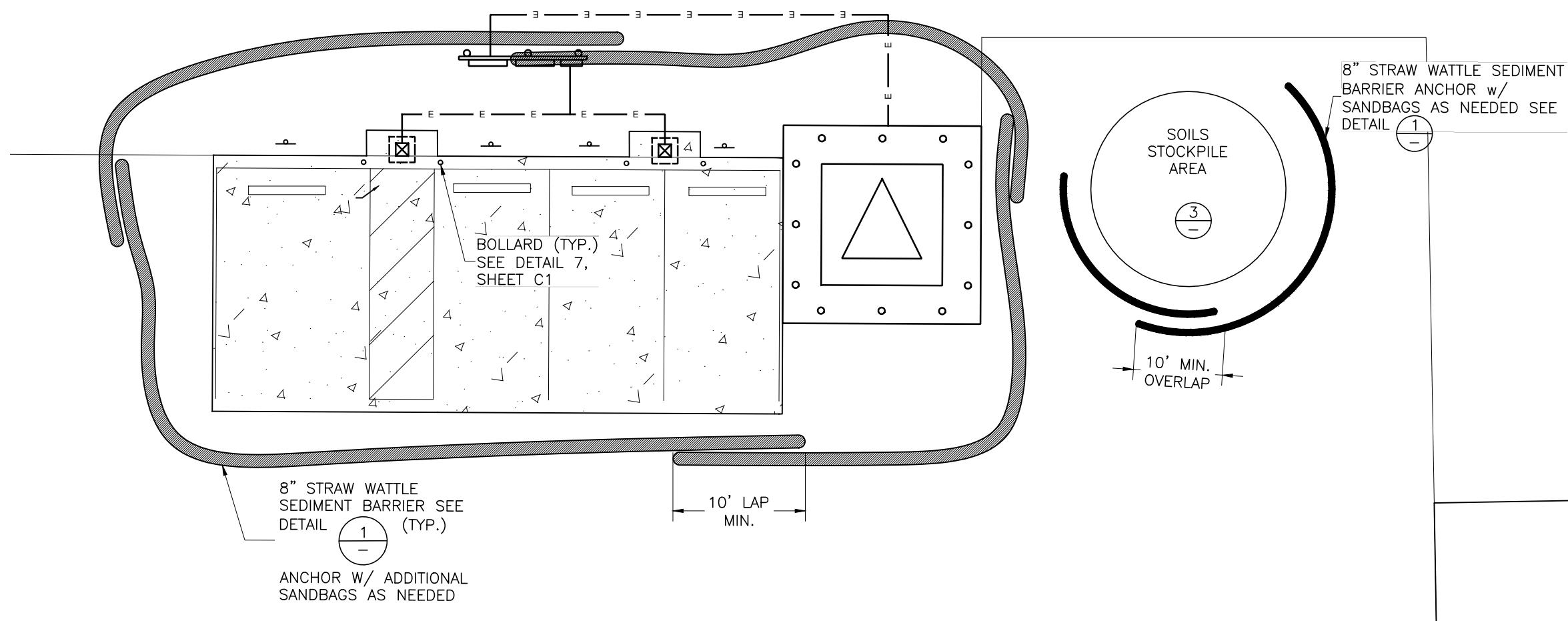
DETAILED SITE PLAN

For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

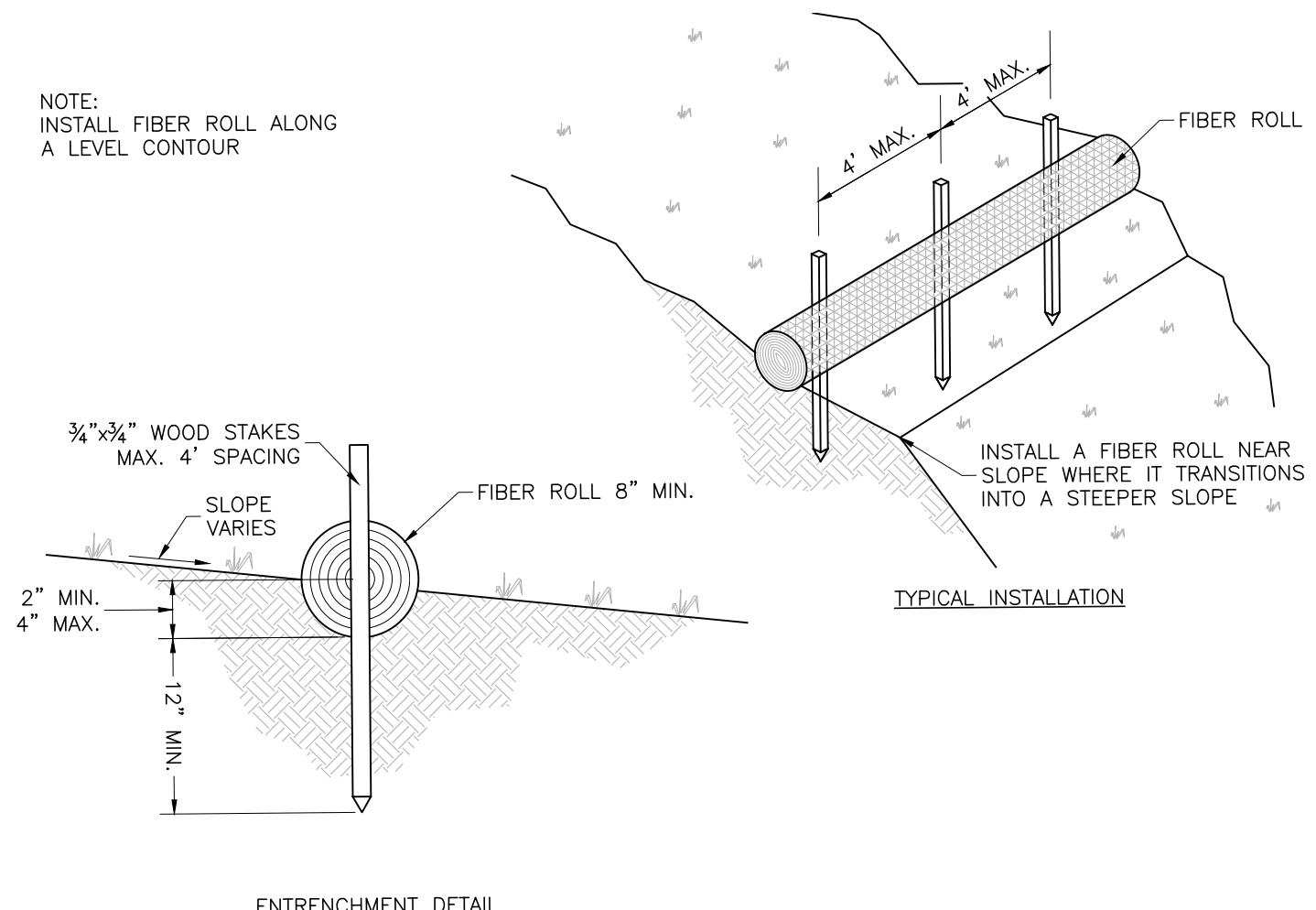
Date	MAR. 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	

3.3

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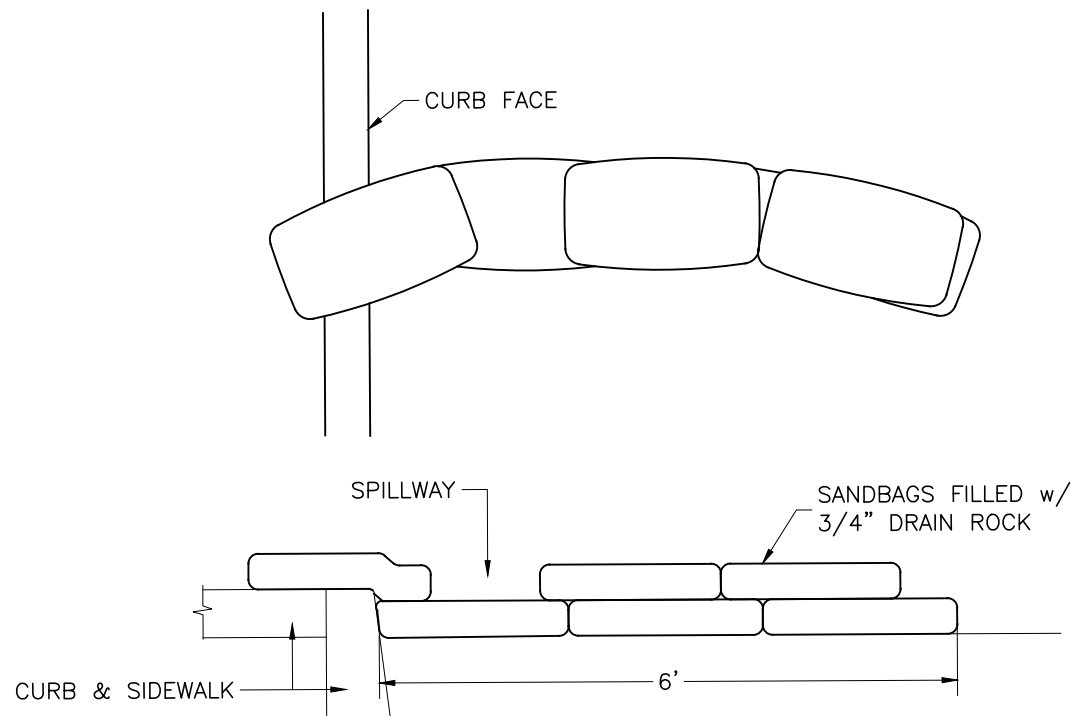
NOTE: INSTALL FIBER ROLL ALONG A LEVEL CONTOUR



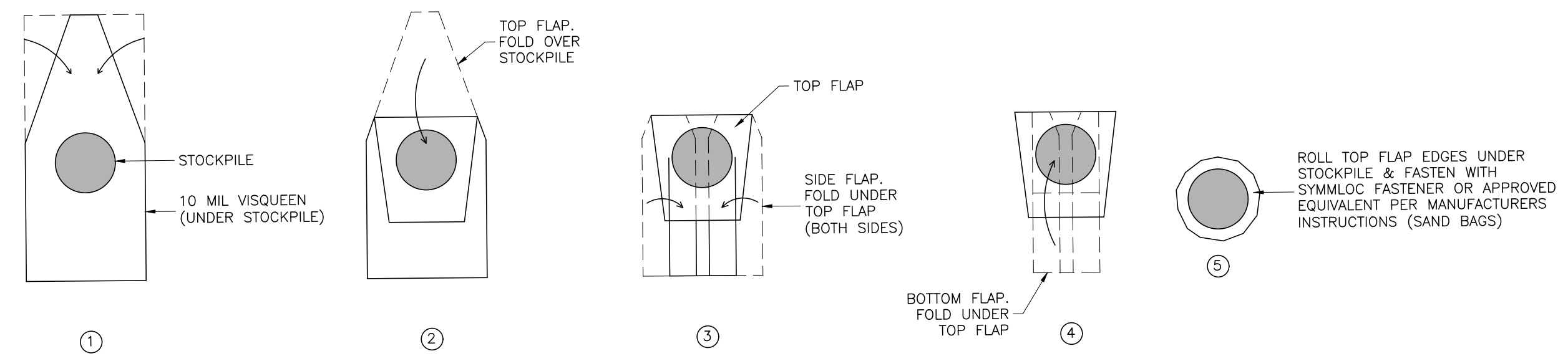
1 STRAW WATTLE/FIBER ROLL DETAIL
NO SCALE

NOTES:

- CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
- SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.



2 CHECK DAM DETAIL
NO SCALE



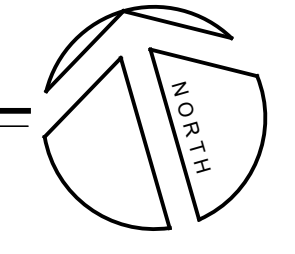
3 BURRITO WRAP STOCK PILE CONTAINMENT
NO SCALE

EROSION CONTROL NOTES

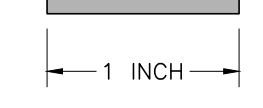
- A. GENERAL
- THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
 - THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
 - THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
 - A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.
- B. WATER COURSES
- EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
 - CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
 - TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
 - TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
 - EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
 - A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
- C. DISPOSAL OF EXCAVATED MATERIALS
- EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.
- D. DUST CONTROL
- EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.
- E. REMOVAL OF VEGETATION AND REVEGETATION
- VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.
 - FINAL REPORTS AND NOTIFICATION OF COMPLETION
- F. UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEERED GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
- THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.
- POST CONSTRUCTION BMP'S
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
 - ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.
- GENERAL NOTE
- NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.

EROSION CONTROL PLAN

SCALE: 1"=10'



THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



This drawing or drawing set shall not be used for construction unless a jurisdictional stamp (County, City, State, Federal) has been issued on the drawing, stating "FOR PERMIT" or similar verbiage, a wet signed professional engineer's stamp, and permit documents have been issued for the project.

REVISIONS	BY

WHITCHURCH ENGINEERING, INC.
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RCEA ELECTRIC VEHICLE CHARGING STATION
MAD RIVER COMMUNITY HOSPITAL
3800 James Road, Arcata, CA 95521
APN: 507-191-033

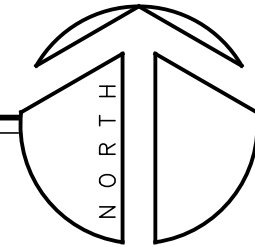
EROSION CONTROL PLAN
For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

Date	MAR. 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	3.4



LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 5201 CARLSON PARK DRIVE, ARCATA, CA 95521
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – CITY OF ARCATA
 APN: 507-141-050
 ZONING – NR-PT – NATURAL RESOURCE-PUBLIC TRUST
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – YES
 SRA AREA – NO
 PROJECT SCOPE – SITE SURVEY AND MAPPING FOR THE PLACEMENT OF 2 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATIONS
 BUILDING DEPARTMENT – CITY OF ARCATA
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST: EMILY BENVIE CITY OF ARCATA ENV. SERVICES CARLSON PARK DRIVE ARCATA, CA 95521 (707) 825-2102	APPLICANT: REDWOOD COAST ENERGY AUTHORITY c/o MIKE AVCOLLIE 633 THIRD STREET EUREKA, CA 95501 (707) 269-1700
---	--

PROJECT CONSULTANTS

CIVIL ENGINEERING: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926	SURVEYOR: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926
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SHEET INDEX

- 4.1 VICINITY MAP & NOTES
- 4.2 SITE PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS - STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR CITY OF ARCATA DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF CITY OF ARCATA PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

- ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE CITY OF ARCATA ORDINANCE.
1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON NATIVE SANDY GRAVEL CLAY. DEPTH OF TOPSOIL AVERAGES 1-1.5 FEET.
 2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
 3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
 4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
 5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAN 1500 P.S.I COMPRESSIVE STRENGTH.
 6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
 7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
 8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
 9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 1'-1.5' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS. REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

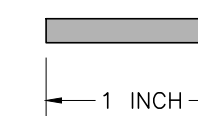
DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

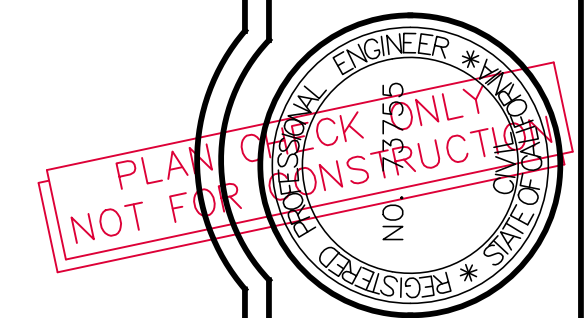
- HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
 2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
 3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
 4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
 5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
 6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
 7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
 8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



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REVISIONS	BY

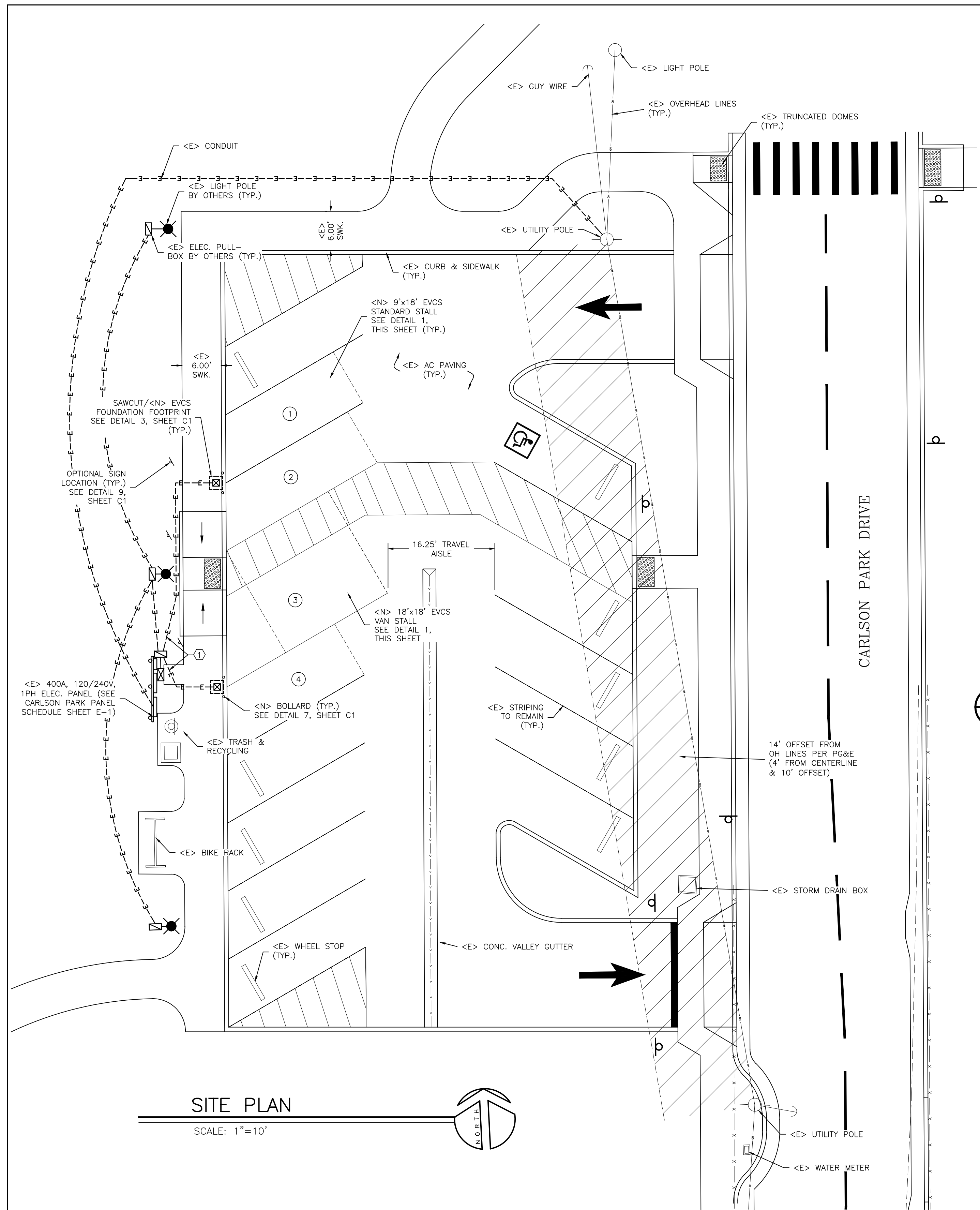


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RCEA ELECTRIC VEHICLE CHARGING STATION – CARLSON PARK
 5201 CARLSON PARK DRIVE, ARCATA, CA 95521
 APN: 507-141-050
SITE VICINITY MAP & NOTES
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

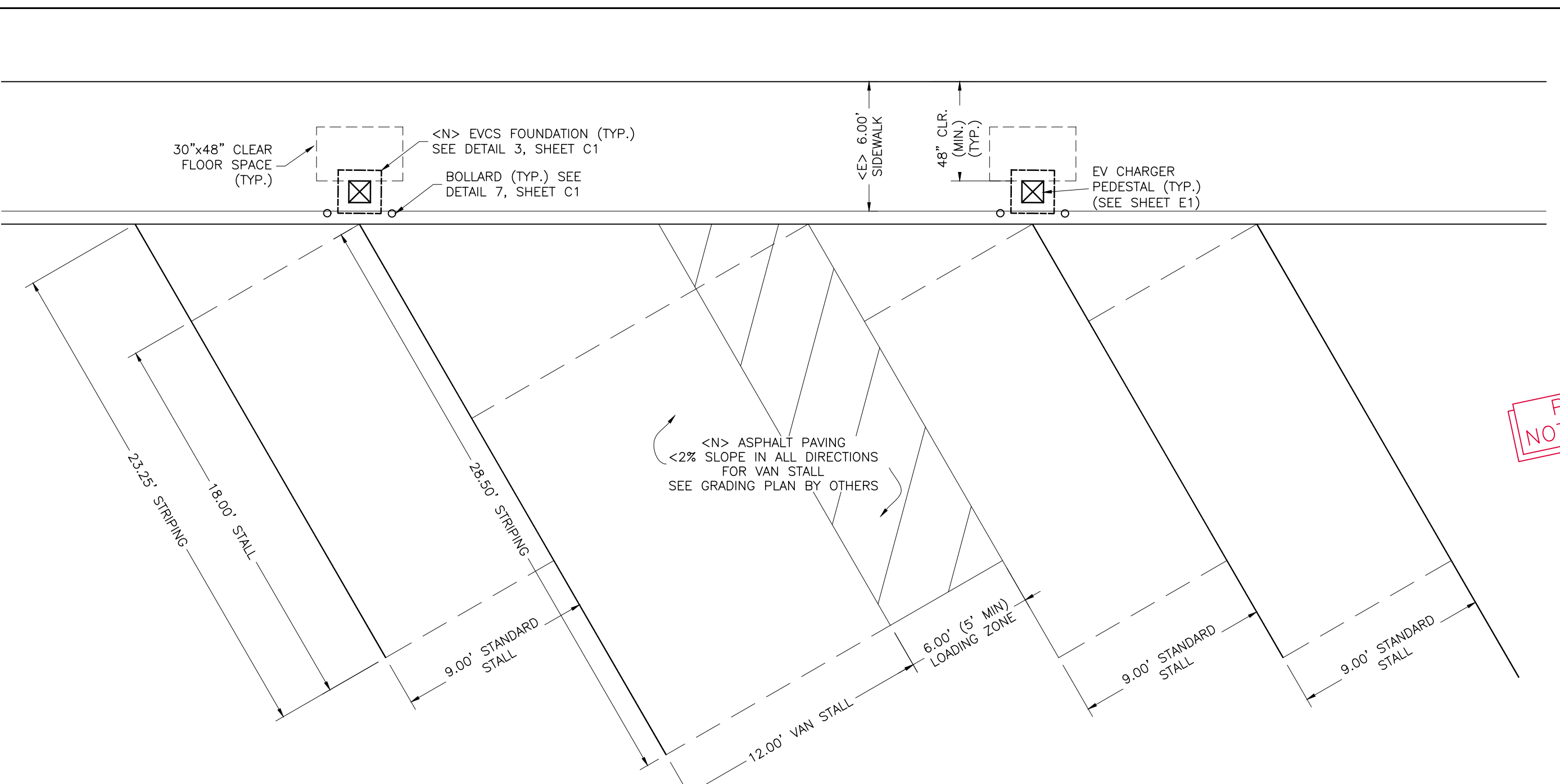
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Design	ZDJ
Drawn	ZDJ
Job	REA 2301
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SITE PLAN

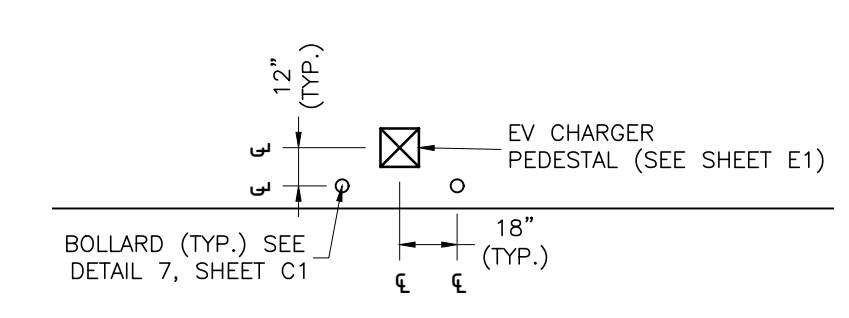
SCALE: 1"=10'



EVCS DETAIL

SCALE: 1"=5'

*EVCS STRIPING PER DETAIL 8, SHEET C1 (TYP.)



BOLLARD SPACING DETAIL

SCALE: 1"=5'

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	50' MAX	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

CONDUIT & CONDUCTOR SCHEDULE

NOTE:
 1) ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2KW, (4) 80A CIRCUITS @ 240V, (4) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 2) EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT.

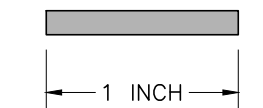
SITE PLAN NOTES

- SITE PLAN & BACKGROUND DRAWINGS PROVIDED BY RCEA. ITEMS SHOWN AS EXISTING ARE PART OF THESE BACKGROUND DRAWINGS AND ARE BY OTHERS. IT IS ASSUMED THAT ALL HARDSCAPE GRADING, INCLUDING THE EVCS VAN STALL AND ADJACENT LOADING ZONE, HAVE BEEN REVIEWED AND APPROVED BY THE CITY OF ARCATA AND MEET ALL ACCESSIBILITY REQUIREMENTS. NO GRADES ARE INCLUDED AS PART OF THIS PLAN SET.
- NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
- ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
- CONTRACTOR SHALL SAWCUT AS NECESSARY FOR INSTALLATION.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO <E> SIDEWALKS/LANDSCAPE TO THE EXTENT POSSIBLE.
- ALL <E> SIDEWALKS SHALL REMAIN.

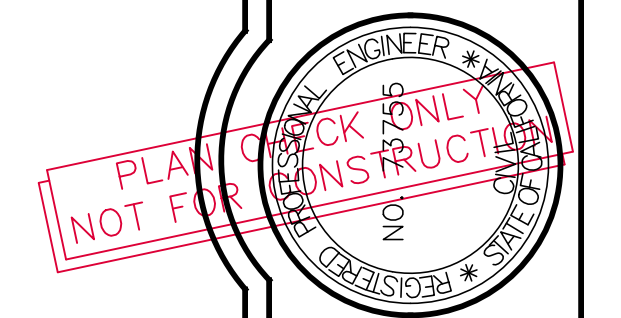
ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG. AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DI DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD
- SWK. SIDEWALK
- TBR TO BE REMOVED
- TB TOP OF BANK
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTIL. UTILITY
- W WATER
- W/ WITH
- WM WATER METER
- WV WATER VALVE

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATION - CARLSON PARK
 5201 CARLSON PARK DRIVE, ARCATA, CA 95521
SITE PLAN
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
 APN: 507-141-050

Date	MAR. 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ZDJ
Job	REA 2301
Sheet	4.2

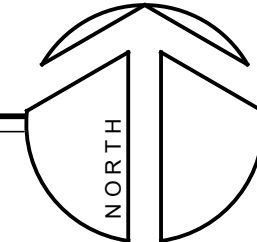
This drawing or drawing set shall not be used for construction unless a jurisdictional stamp (County, City, State, Federal) has been issued on the drawing, stating "FOR PERMIT" or similar verbiage, a wet signed professional engineer's stamp, and permit documents have been issued for the project.



PROJECT LOCATION
3414 W STREET
EUREKA, CA 95501

LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 3414 W STREET, EUREKA, CA 95501
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – CITY OF EUREKA
 APN: 013-161-001
 ZONING – PL – PUBLIC LAND
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – NO
 PROJECT SCOPE – CONSTRUCTION OF 2 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATIONS AND ASSOCIATED PARKING STALLS
 BUILDING DEPARTMENT – CITY OF EUREKA
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST:
KELLY ALLEN
CITY OF EUREKA PUBLIC WORKS
3414 W STREET
EUREKA, CA 95503
(707) 268-5253

APPLICANT:
REDWOOD COAST ENERGY AUTHORITY
c/o MIKE AVCOLLIE
633 THIRD STREET
EUREKA, CA 95501
(707) 269-1700

PROJECT CONSULTANTS

CIVIL ENGINEERING:
WHITCHURCH ENGINEERING, INC.
610 9th STREET
FORTUNA, CA 95540
(707) 725-6926

SURVEYOR:
WHITCHURCH ENGINEERING, INC.
610 9th STREET
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(707) 725-6926

SHEET INDEX

- 5.1 VICINITY MAP & NOTES
- 5.2 SITE & GRADING PLAN
- 5.3 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E2 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS - STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR CITY OF EUREKA DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF CITY OF EUREKA PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE CITY OF EUREKA ORDINANCE.

1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS. DEPTH OF TOPSOIL AVERAGES 0.5-1.0 FEET.
2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAT 1500 P.S.I. COMPRESSIVE STRENGTH.
6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.
10. EXCESS FILL MATERIAL SHALL BE HAULED TO AN APPROVED DIRT DISPOSAL SITE BY CONTRACTOR.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 0.5'-1.0' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
 2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL. THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
 3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL. THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
 4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
 5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
 6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
 7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS, REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLANT AREAS.
 8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
 9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.
- DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,**
- THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:
1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
 2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
 3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
 4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
 5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
 6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
 7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

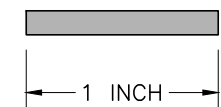
DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

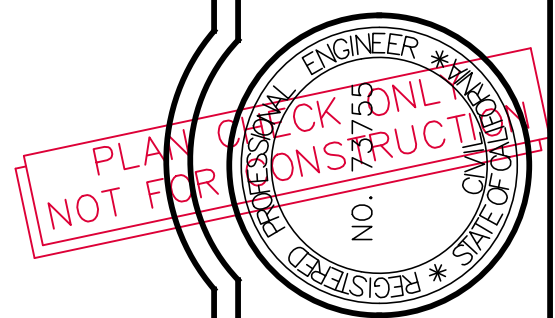
- HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
 2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
 3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
 4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
 5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
 6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
 7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
 8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



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REVISIONS	BY



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 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATION - SEQUOIA PARK
 3414 W STREET, EUREKA, CA 95501
 APN: 013-161-001
SITE VICINITY MAP & NOTES
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR. 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ZDJ
Job	REA 2301
Sheet	5.1

2:\new\001\PROJECTS\2024\REA 2301\REVISED\2024\03\12\24\REA 2301 - SITE VICINITY MAP.dwg - 3/12/24

REVISIONS	BY

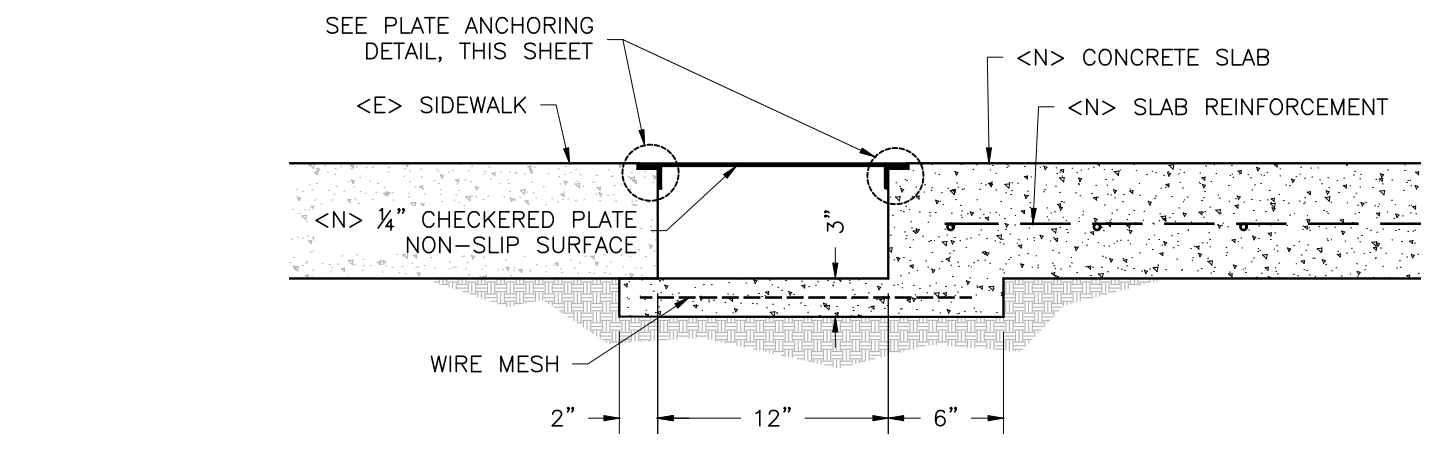
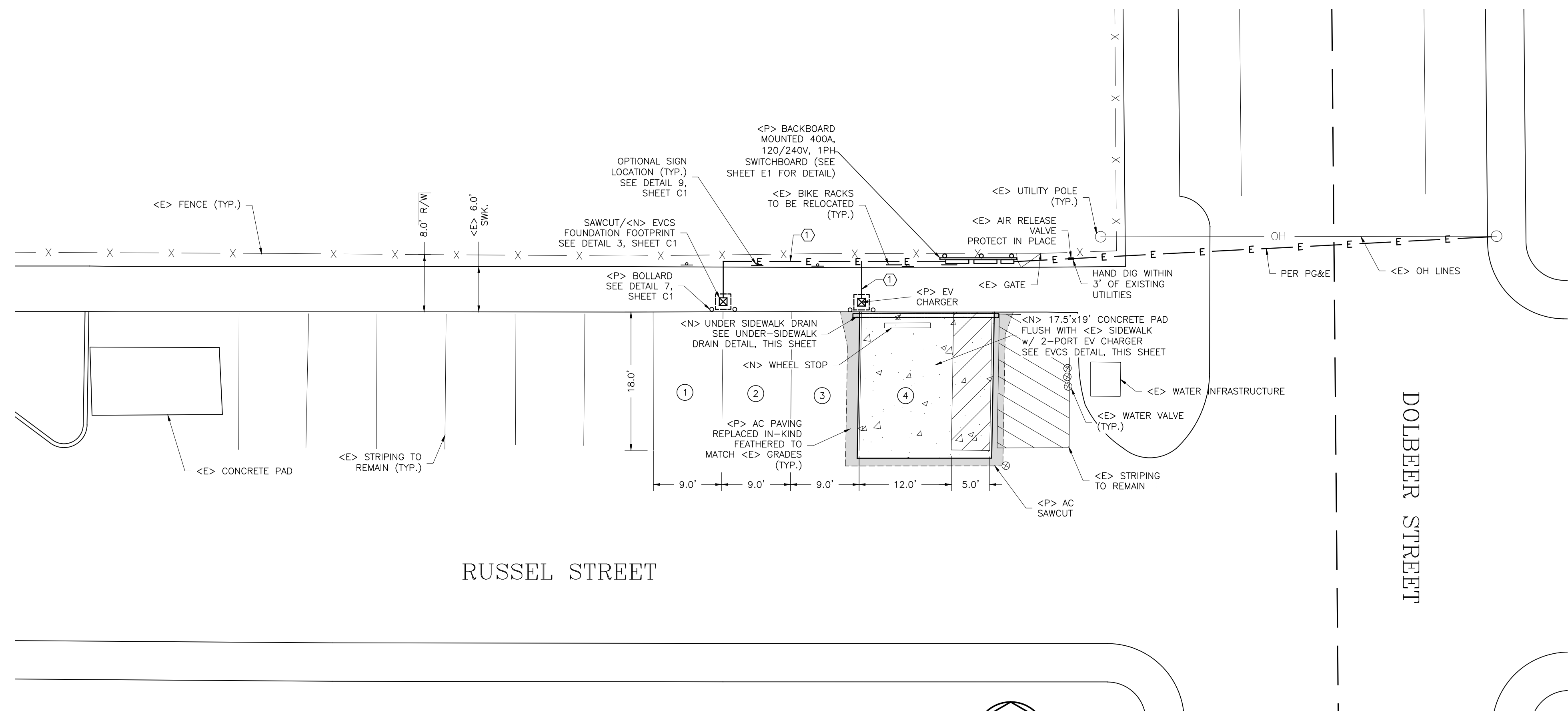
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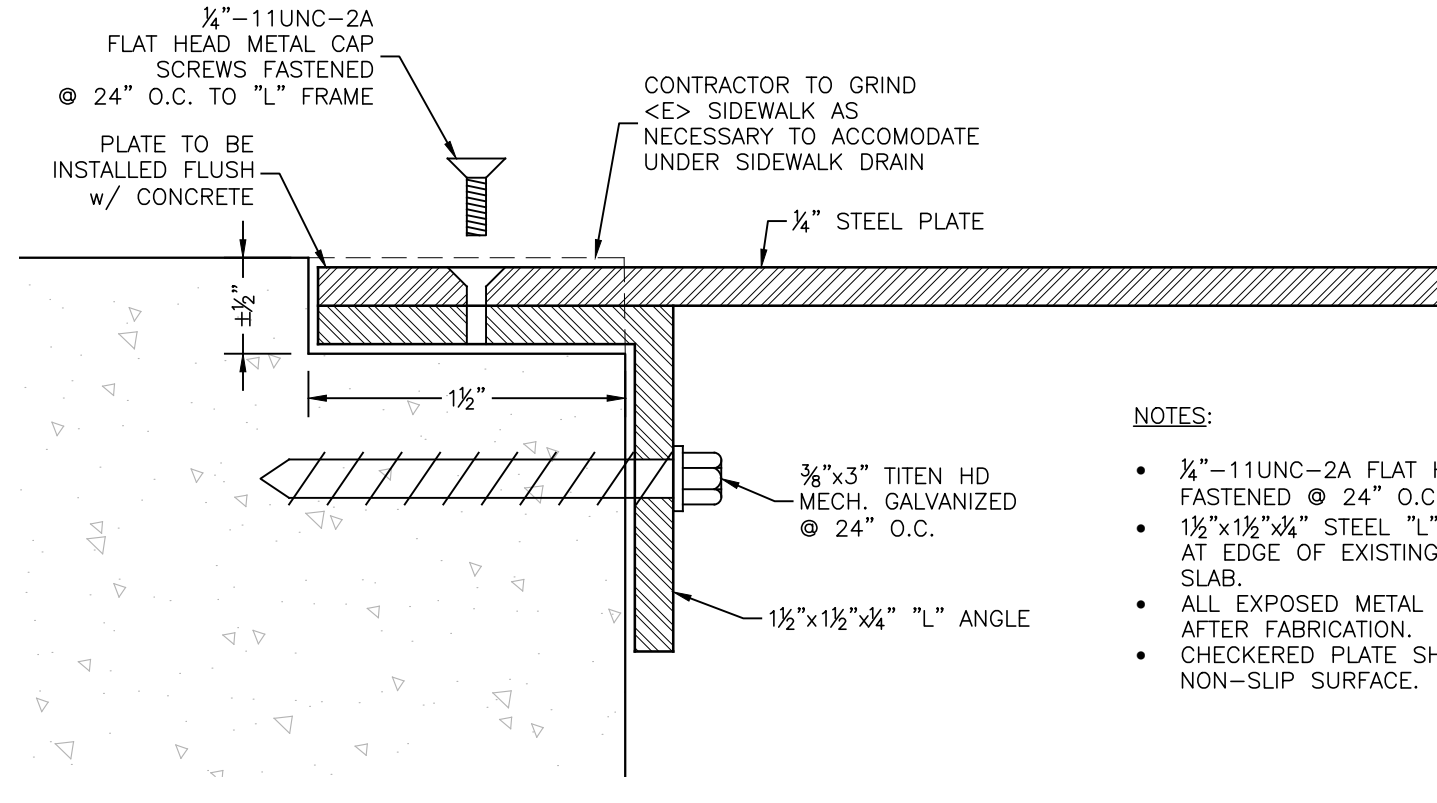
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RCEA ELECTRIC VEHICLE CHARGING STATION - SEQUOIA PARK
 3414 W STREET, EUREKA, CA 95501
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SITE & GRADING PLAN
 For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
 3/12/2024

Date MAR. 12, '24
 Scale AS NOTED
 Design ZDJ
 Drawn ZDJ
 Job REA 2301
 Sheet **5.2**



1 UNDER-SIDEWALK DRAIN DETAIL
NO SCALE



2 PLATE ANCHORING DETAIL
NO SCALE

- NOTES:**
- 1/4"-11UNC-2A FLAT HEAD METAL CAP SCREWS FASTENED @ 24" O.C. INTO "L" FRAME.
 - 1/2"x1/2"x4" STEEL "L" FRAME TO BE PROVIDED AT EDGE OF EXISTING SIDEWALK AND AT NEW SLAB.
 - ALL EXPOSED METAL PARTS TO BE GALVANIZED AFTER FABRICATION.
 - CHECKERED PLATE BE STEEL WITH NON-SLIP SURFACE.

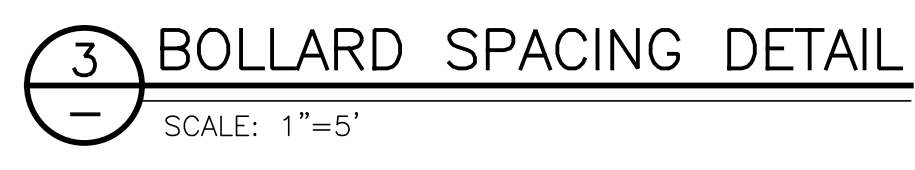
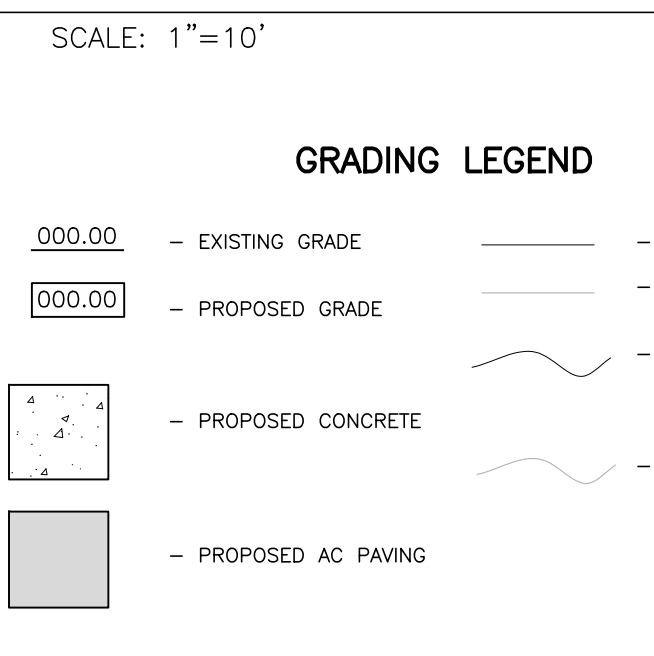
RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	35'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

CONDUIT & CONDUCTOR SCHEDULE

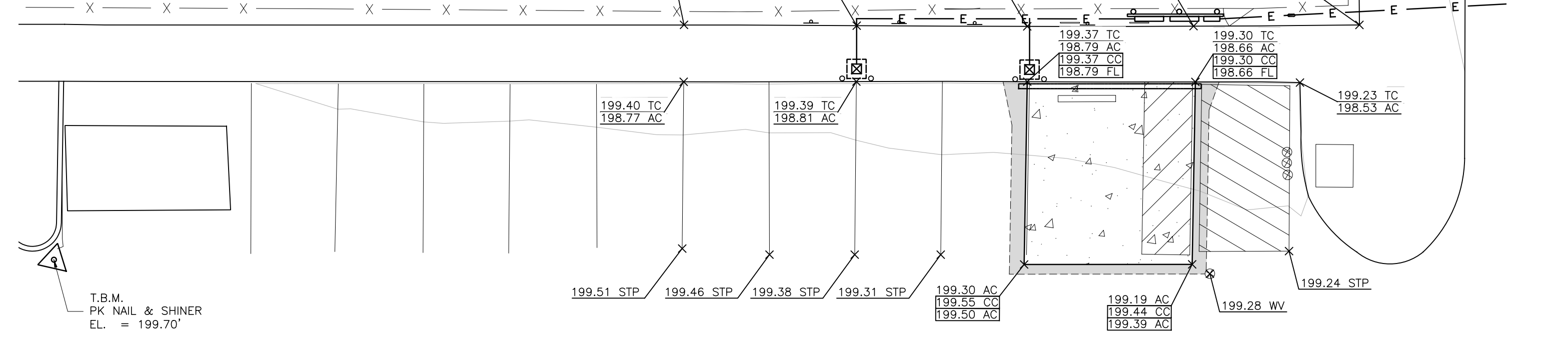
- NOTE:**
- ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2kW, (4) 80A CIRCUITS @ 240V.
 - (4) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 - EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT.

- SITE PLAN NOTES**
- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 12, 2023.
 - NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
 - ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
 - CONTRACTOR SHALL SAWCUT AS NECESSARY FOR INSTALLATION.
 - CONTRACTOR SHALL MINIMIZE DAMAGE TO <E> SIDEWALKS/LANDSCAPE TO THE EXTENT POSSIBLE.
 - ALL <E> SIDEWALKS SHALL REMAIN.
 - CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES IN PLACE.
 - CONTRACTOR TO TAKE ADDITIONAL CARE OF EXISTING UTILITIES IN NO-PARKING ZONE ADJACENT TO NEW EVCS STALL.
 - EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

SITE PLAN

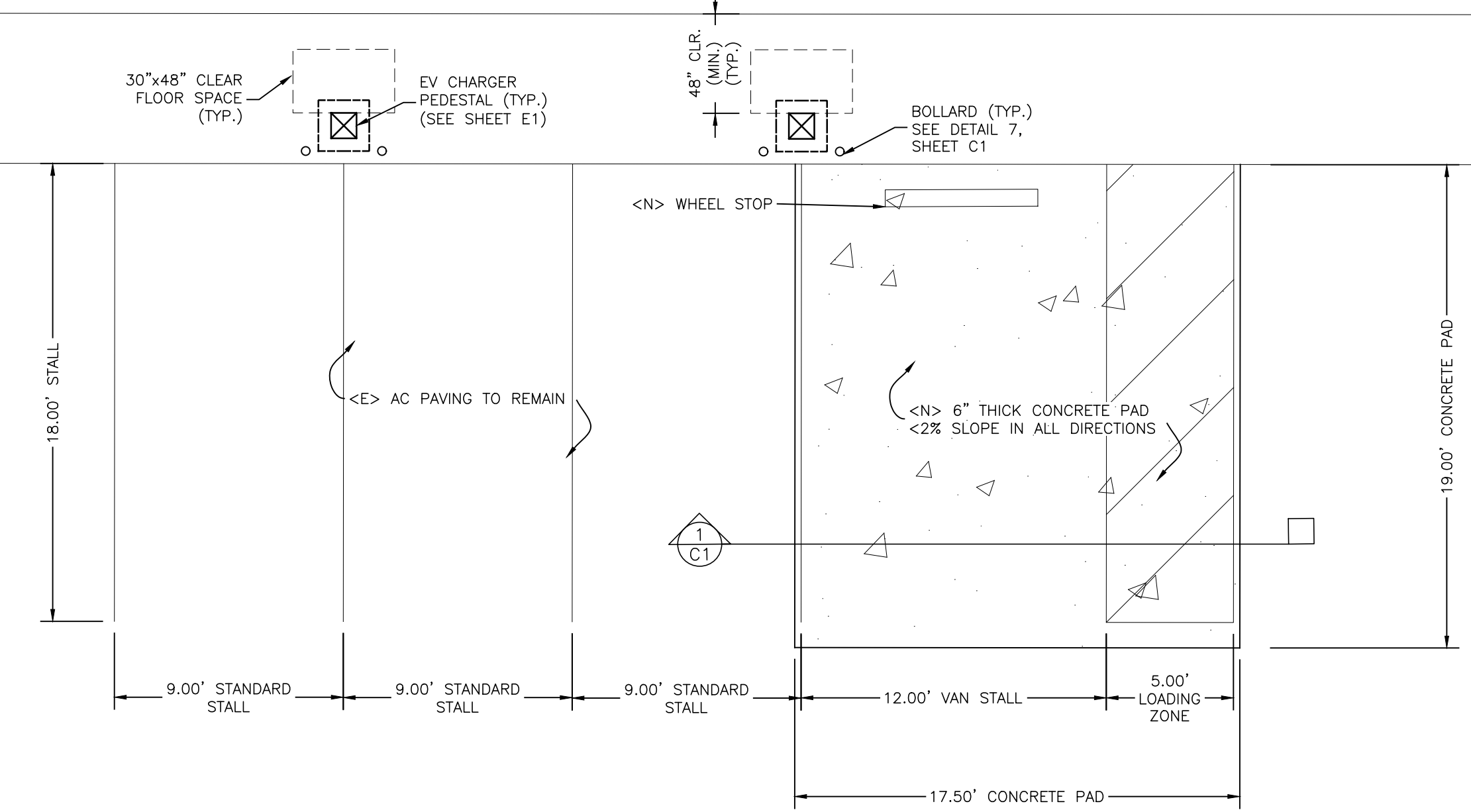


- GRADING NOTES**
- STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN.
 - THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. WHITCHURCH ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
 - TOPOGRAPHIC DATA IS BASED ON WHITCHURCH ENGINEERING SURVEY DATED OCTOBER 12, 2023 AND EXISTING RIGHT OF WAY SURFACE FEATURES FOUND ON SITE. ACTUAL BOUNDARY LINES AND EASEMENTS ARE NOT REPRESENTED IN THIS DRAWING.
 - TEMPORARY BENCHMARK LOCATED NEAR THE CENTER OF RUSSEL STREET. P.K. NAIL & SHINER WITH AN ASSUMED ELEVATION OF 199.70'. VERTICAL DATUM IS ASSUMED.
 - CONTOURS SHOWN AT 1' INTERVAL.
 - DATUM IS NAD83.



GRADING PLAN

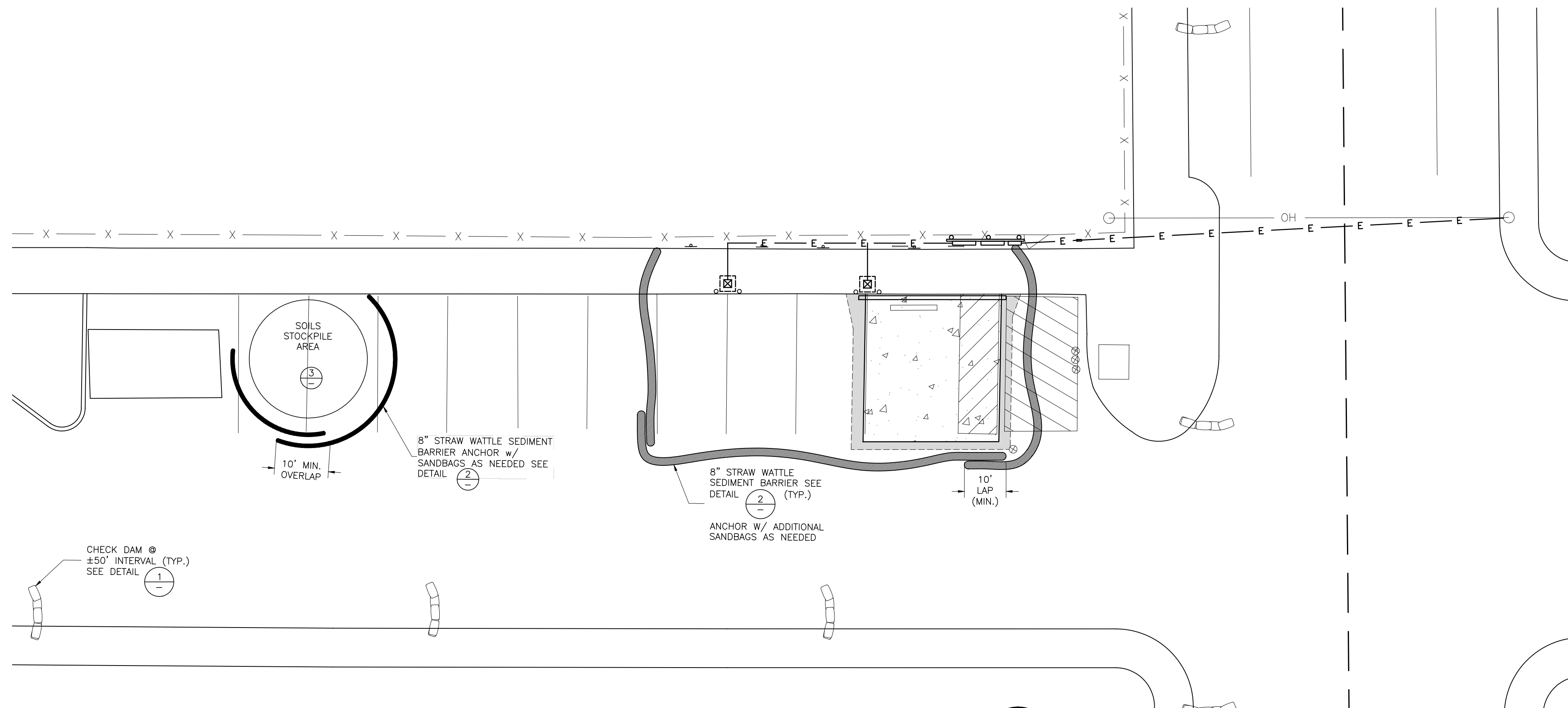
SCALE: 1"=10'



4 EVCS DETAIL
SCALE: 1"=5'

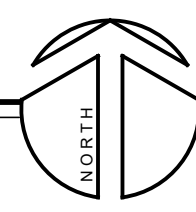
THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.
 *EVCS STRIPING PER DETAIL B, SHEET C1 (TYP.)

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EROSION CONTROL PLAN

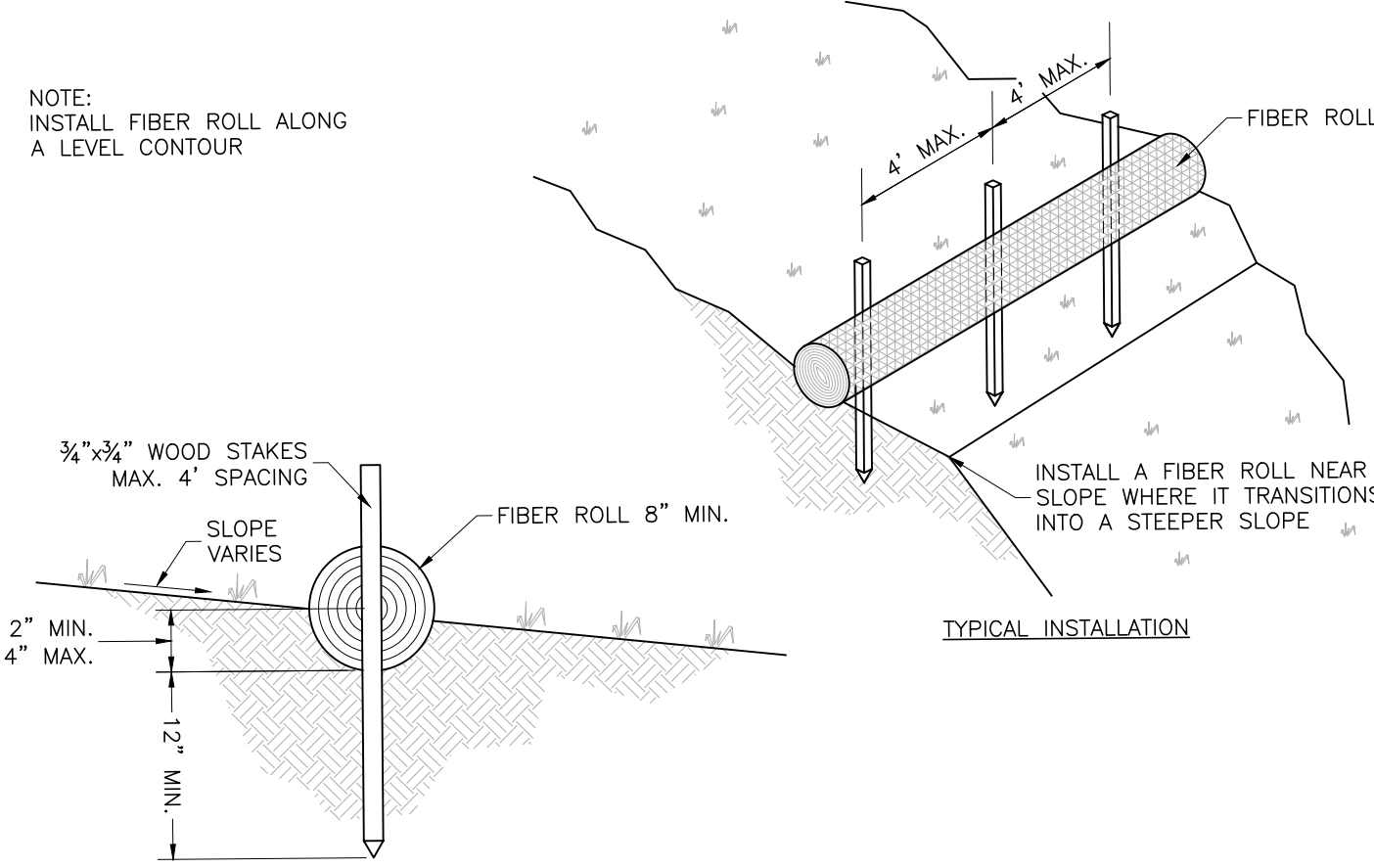
SCALE: 1"=10'



NOTES:

- CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
- SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.

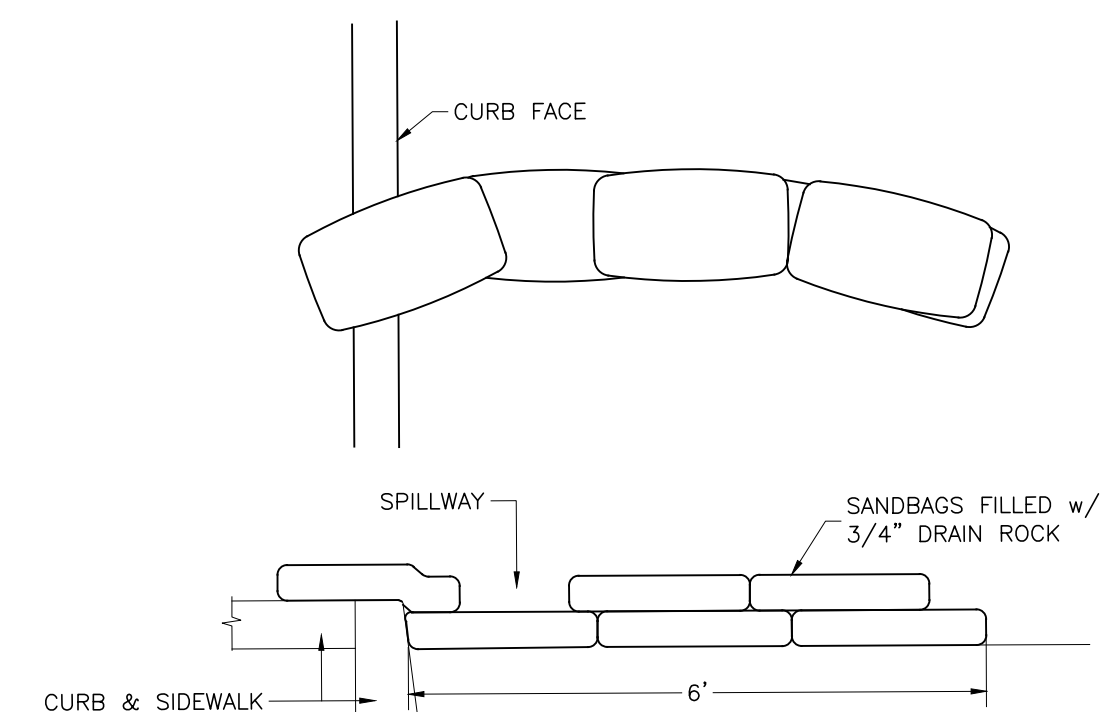
NOTE:
INSTALL FIBER ROLL ALONG A LEVEL CONTOUR



ENTRENCHMENT DETAIL

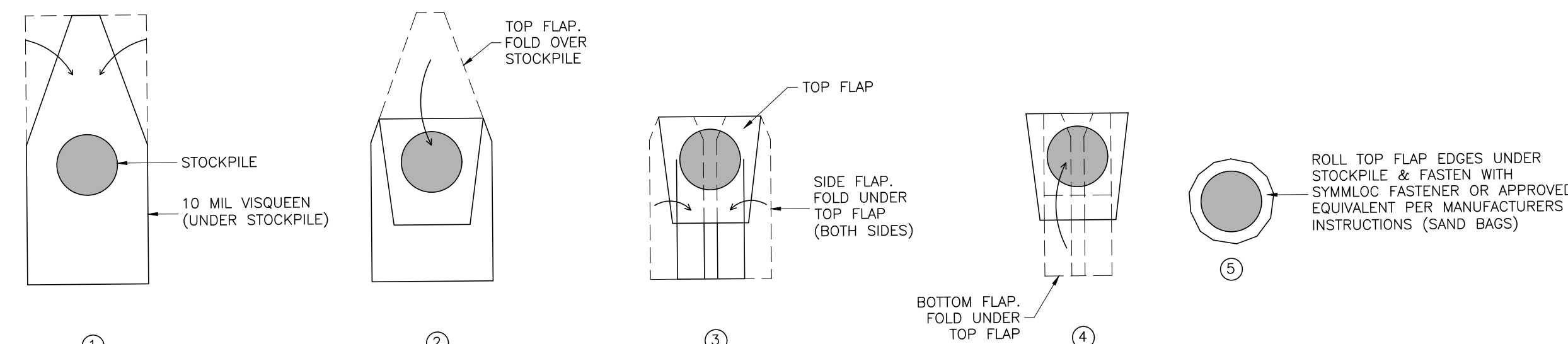
2 STRAW WATTLE/FIBER ROLL DETAIL

NO SCALE



1 CHECK DAM DETAIL

NO SCALE



3 BURRITO WRAP STOCK PILE CONTAINMENT

NO SCALE

EROSION CONTROL NOTES

A. GENERAL

- THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
- THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
- THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
- A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.

B. WATER COURSES

- EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
- CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
- TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
- TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
- EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
- A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.

C. DISPOSAL OF EXCAVATED MATERIALS

- EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.

D. DUST CONTROL

- EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.

E. REMOVAL OF VEGETATION AND REVEGETATION

- VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.

F. FINAL REPORTS AND NOTIFICATION OF COMPLETION

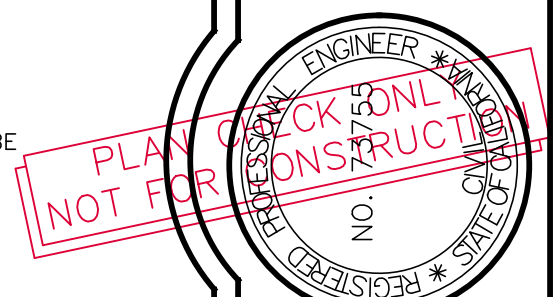
- UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEERED GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
- THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.

POST CONSTRUCTION BMP'S

- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
- ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.

GENERAL NOTE

NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.



REVISIONS	BY

WHITCHURCH ENGINEERING, INC.
610 9th Street Fortuna, California 95540
Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATION - SEQUOIA PARK
3414 W STREET, EUREKA, CA 95501
APN: 013-161-001
EROSION CONTROL PLAN
For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR. 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ZDJ
Job	REA 2301
Sheet	5.3

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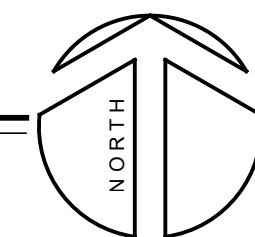


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LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 9 PARK STREET, FORTUNA, CA 95540

CLIENT – REDWOOD COAST ENERGY AUTHORITY

PROPERTY OWNER – CITY OF FORTUNA

APN: 040-381-001

ZONING – PF – PUBLIC FACILITY

COASTAL ZONE – NO

100-YEAR FLOOD ZONE – NO

SRA AREA – NO

PROJECT SCOPE – CONSTRUCTION OF 1 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATION AND ASSOCIATED PARKING AND SIDEWALK/CURB WORK.

BUILDING DEPARTMENT – CITY OF FORTUNA

BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST:
MERRITT PERRY – CITY MANAGER
CITY OF FORTUNA
9 PARK STREET
FORTUNA, CA 95540
(707) 725-1410

APPLICANT:
REDWOOD COAST ENERGY AUTHORITY
c/o MIKE AVCOLLIE
633 THIRD STREET
EUREKA, CA 95501
(707) 269-1700

PROJECT CONSULTANTS

CIVIL ENGINEERING:
WHITCHURCH ENGINEERING, INC.
610 9th STREET
FORTUNA, CA 95540
(707) 725-6926

SURVEYOR:
WHITCHURCH ENGINEERING, INC.
610 9th STREET
FORTUNA, CA 95540
(707) 725-6926

SHEET INDEX

- 7.1 LOCATION MAP & NOTES
- 7.2 SITE & GRADING PLAN
- 7.3 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR CITY OF FORTUNA DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF CITY OF FORTUNA PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE CITY OF FORTUNA ORDINANCE.

1. TOPSOIL- TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS. DEPTH OF TOPSOIL AVERAGES 0.5-1.0 FEET.
2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAN 1500 P.S.I COMPRESSIVE STRENGTH.
6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.
10. EXCESS FILL MATERIAL SHALL BE HAULED TO AN APPROVED DIRT DISPOSAL SITE BY CONTRACTOR.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 0.5'-1.0' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES. MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS, REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

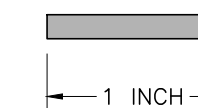
DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:

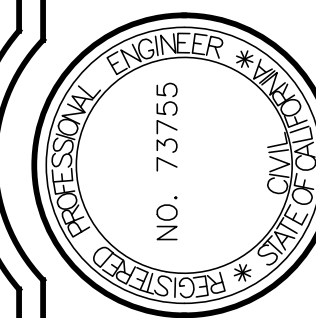
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

PLAN CHECK ONLY
NOT FOR CONSTRUCTION

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
610 9th Street Fortuna, California 95540
Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS
—
ROHNER PARK
9 Park St., Fortuna, CA. 95540
APN: 040-381-001

LOCATION MAP & NOTES

For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

Date	MAR 12, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA2301
Sheet	7.1

This drawing or drawing set shall not be used for construction unless a jurisdictional stamp (County, City, State, Federal) has been issued on the drawing, stating "FOR PERMIT" or similar verbiage, a wet signed professional engineer's stamp, and permit documents have been issued for the project.

ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG. AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DI DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD SIDEWALK
- TBR TO BE REMOVED
- TB TOP OF BANK
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTL. UTILITY
- W WATER
- W/ WITH
- WM WATER METER
- WV WATER VALVE

GRADING LEGEND

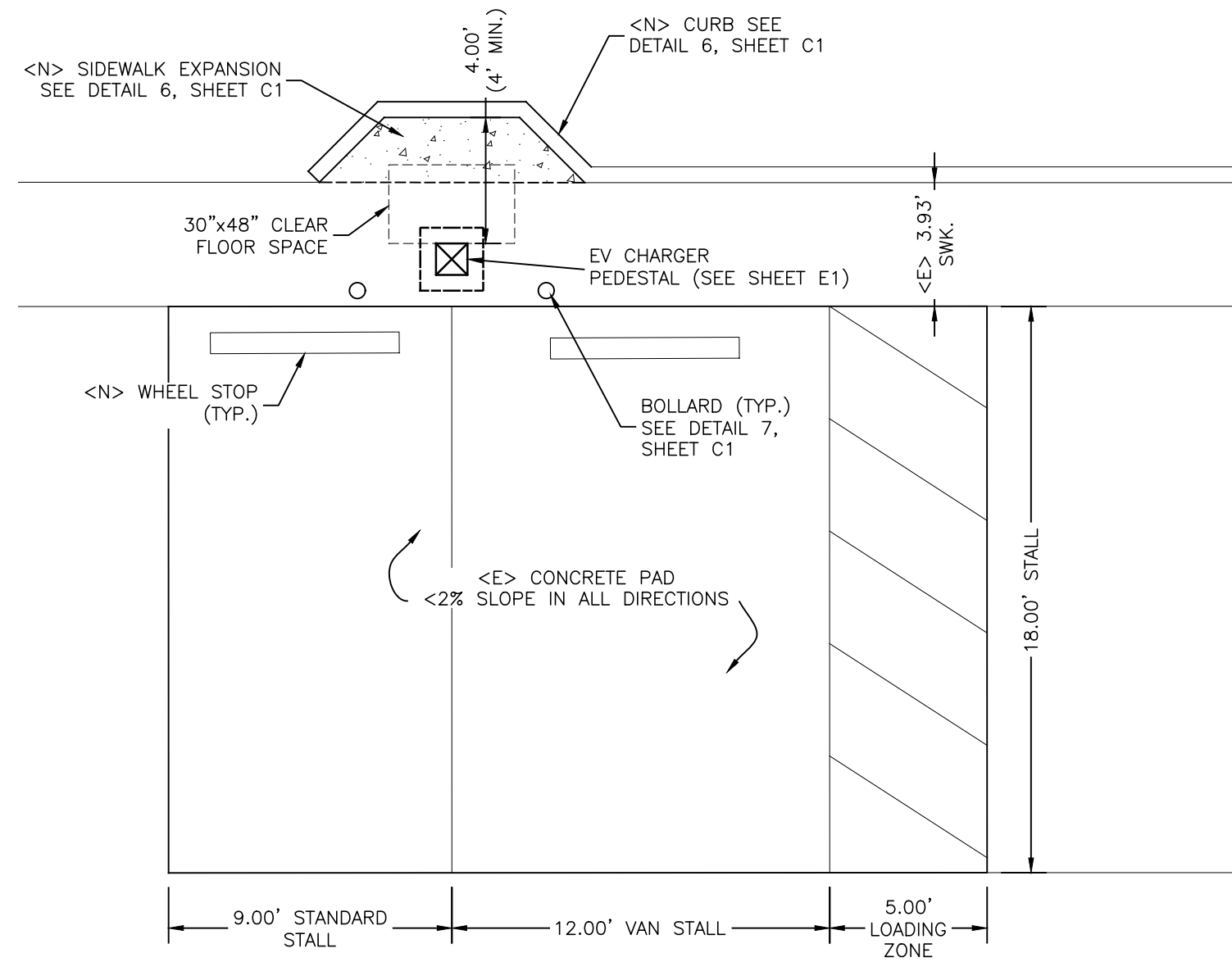
- 0000.00 - EXISTING GRADE
- 0000.00 - PROPOSED GRADE
- 4 4 - PROPOSED CONCRETE
- EXISTING AC PAVING
- EXISTING CONCRETE TO REMAIN
- EXISTING CONCRETE TO BE REMOVED
- MAJOR CONTOUR
- MINOR CONTOUR

SITE PLAN NOTES

1. SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 24, 2023. PROPERTY BOUNDARY LINES ARE FOR REFERENCE AND ARE NOT TO BE USED AS THE REAL BOUNDS.
2. NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
3. ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
4. CONTRACTOR SHALL SAWCUT AS NECESSARY FOR INSTALLATION.
5. CONTRACTOR SHALL MINIMIZE DAMAGE TO <E> SIDEWALKS/LANDSCAPE TO THE EXTENT POSSIBLE.
6. ALL <E> SIDEWALKS SHALL REMAIN.
7. EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

GRADING NOTES

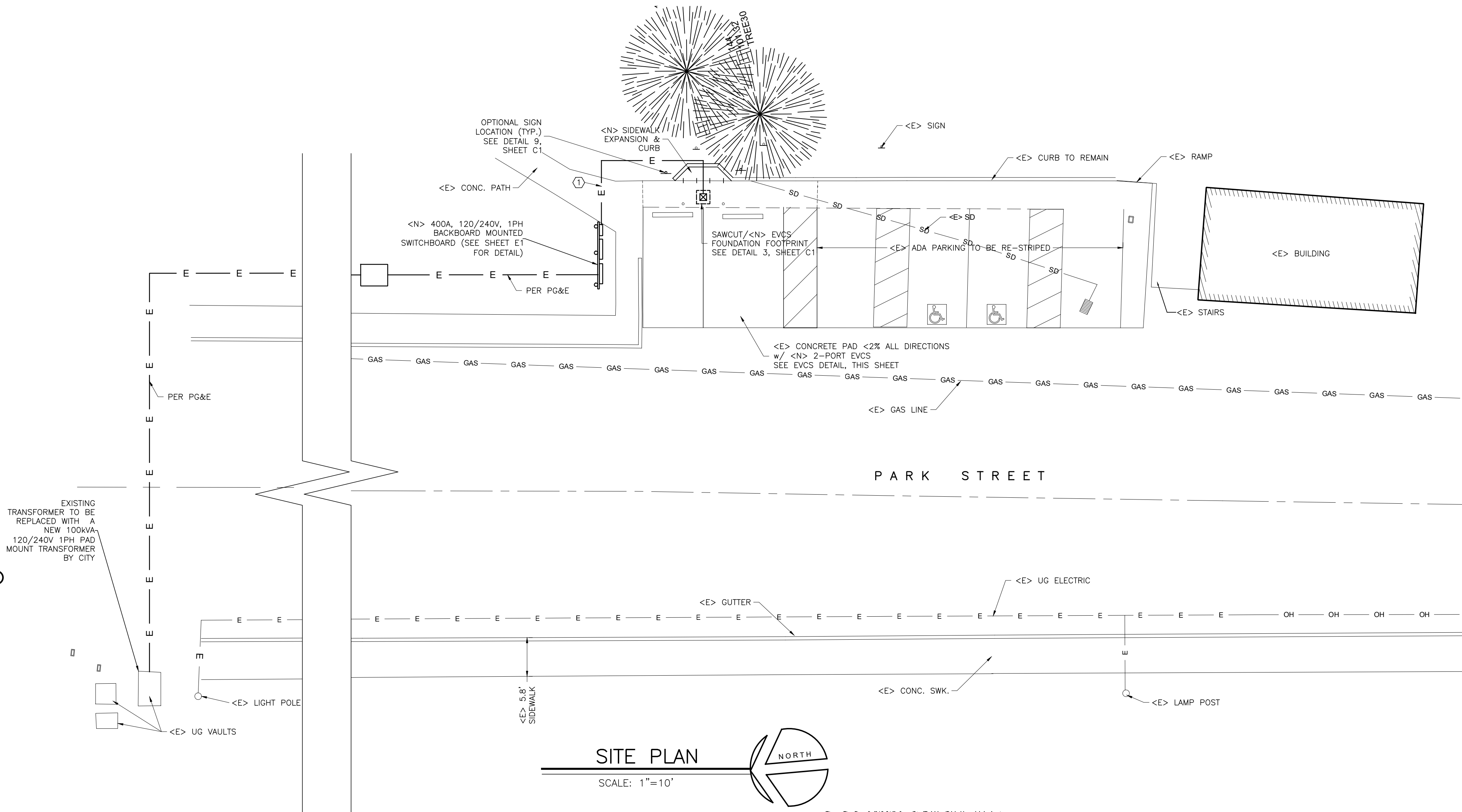
1. STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. WHITCHURCH ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
3. TOPOGRAPHIC DATA IS BASED ON WHITCHURCH ENGINEERING SURVEY DATED OCTOBER 24, 2023 AND EXISTING RIGHT OF WAY SURFACE FEATURES FOUND ON SITE. ACTUAL BOUNDARY LINES AND EASEMENTS ARE NOT REPRESENTED IN THIS DRAWING.
4. TEMPORARY BENCHMARK NEAR THE EASTERN EDGE OF PARK STREET, P.K. NAIL & SHINER WITH AN ASSUMED ELEVATION OF 99.62'. VERTICAL DATUM IS ASSUMED.
5. CONTOURS SHOWN AT 1' INTERVAL.
6. DATUM IS NAD83.



EVCS DETAIL

SCALE: 1"=5'

*EVCS STRIPING PER DETAIL 8, SHEET C1 (TYP.)



SITE PLAN

SCALE: 1"=10'

BOLLARD SPACING DETAIL

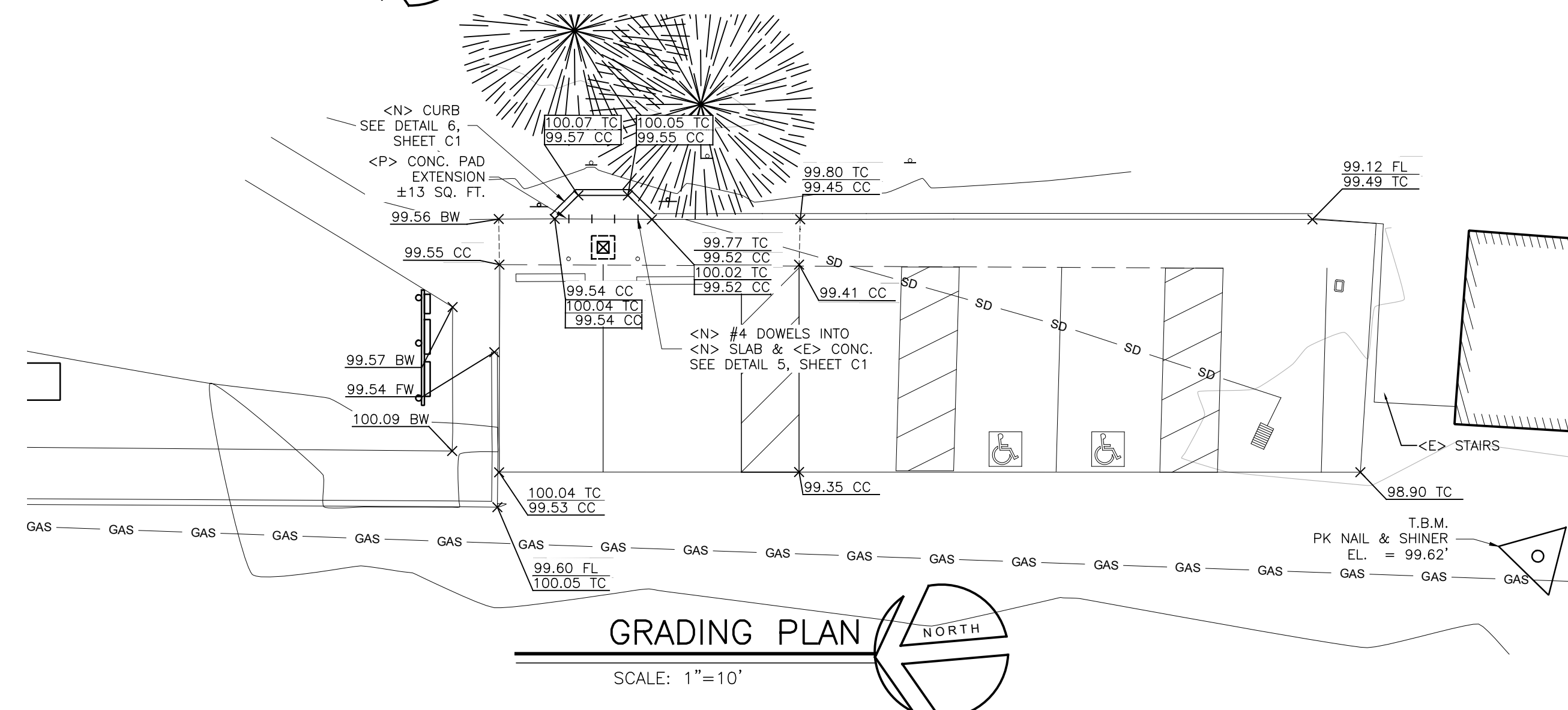
SCALE: 1"=5'

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
1	SWITCHBOARD TO EV (PER PORT)	18'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

CONDUIT & CONDUCTOR SCHEDULE

NOTE:

- 1) ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2kW, (2) 80A CIRCUITS @ 240V. (2) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS
- 2) EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT.

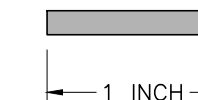


GRADING PLAN

SCALE: 1"=10'

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REVISIONS	BY

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RCEA ELECTRIC VEHICLE CHARGING STATIONS
ROHNER PARK

9 Park St., Fortuna, CA. 95540 APN: 040-381-001

SITE & GRADING PLAN

For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

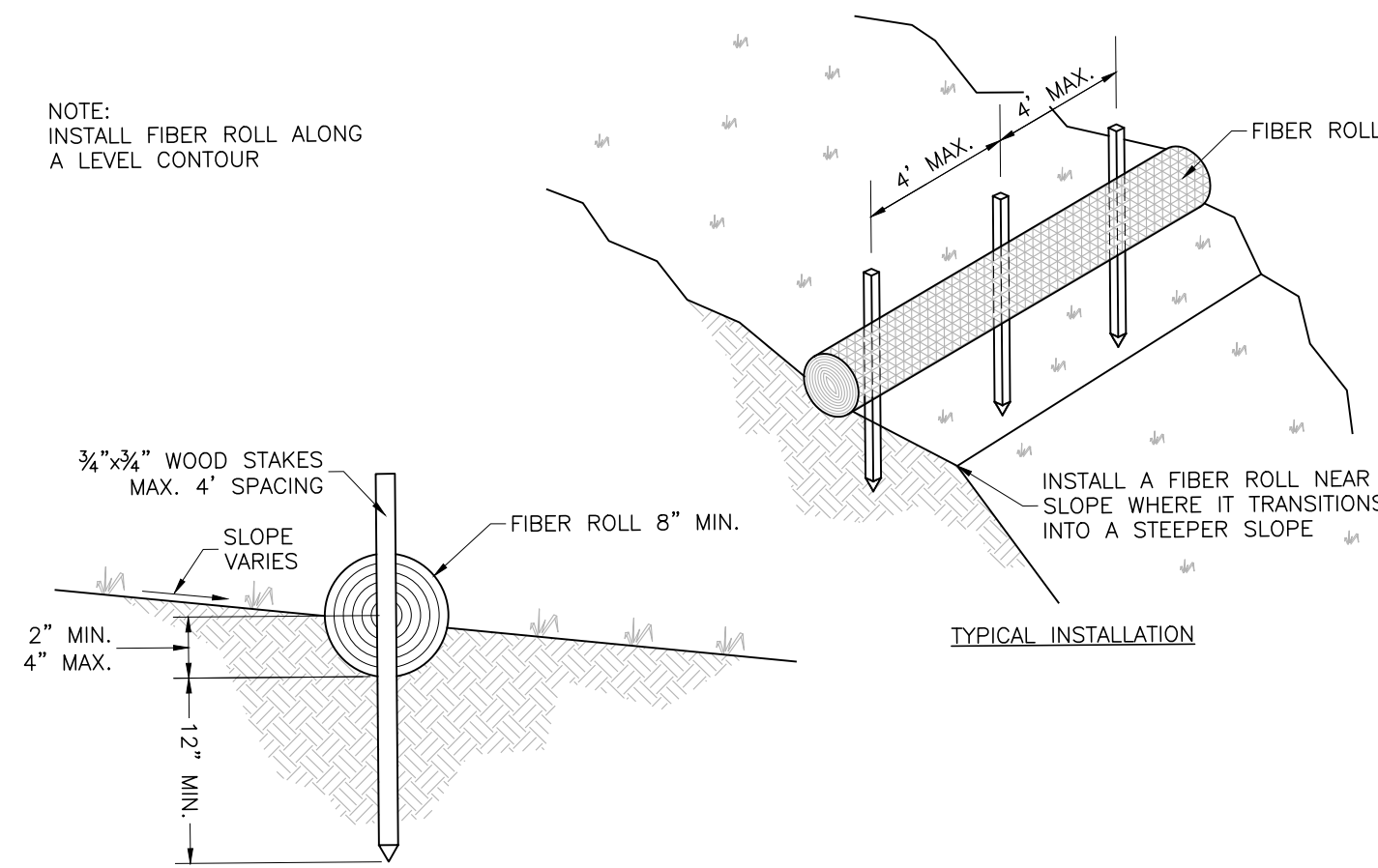
Date	MAR 12, '24
Scale	AS NOTED
Design	ZDU
Drawn	ALW
Job	REA2301
Sheet	7.2

EROSION CONTROL NOTES

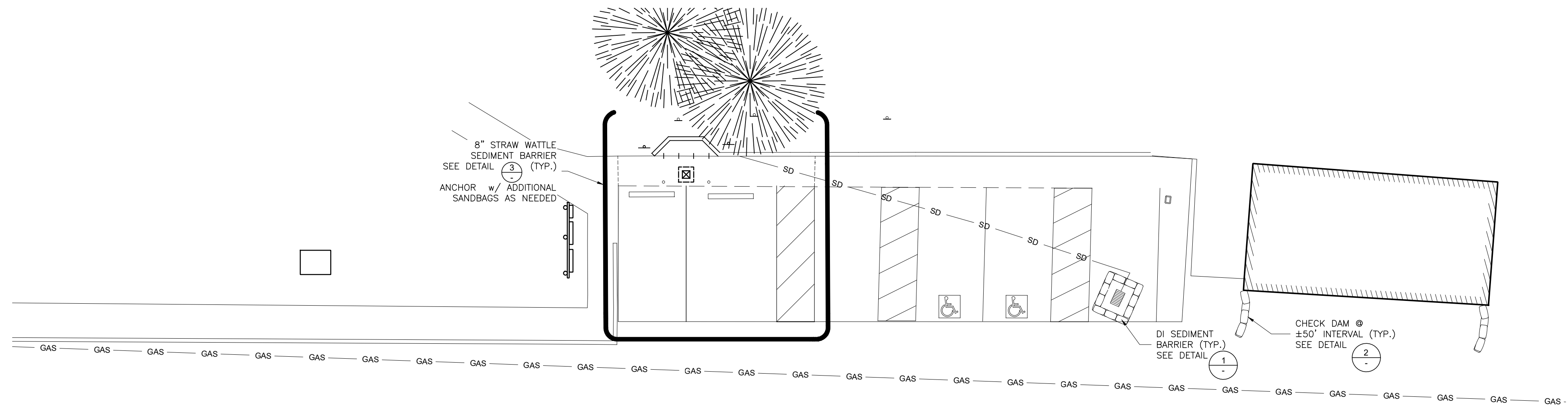
- A. GENERAL**
1. THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
 2. THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
 3. THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
 4. A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 5. THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.
- B. WATER COURSES**
1. EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
 2. CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
 3. TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
 4. TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
 5. EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
 6. A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
 7. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
- C. DISPOSAL OF EXCAVATED MATERIALS**
1. EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.
- D. DUST CONTROL**
1. EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.
- E. REMOVAL OF VEGETATION AND REVEGETATION**
1. VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.
 2. FINAL REPORTS AND NOTIFICATION OF COMPLETION
- POST CONSTRUCTION BMP'S**
1. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
 2. ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.

GENERAL NOTE
NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.

NOTE:
INSTALL FIBER ROLL ALONG A LEVEL CONTOUR

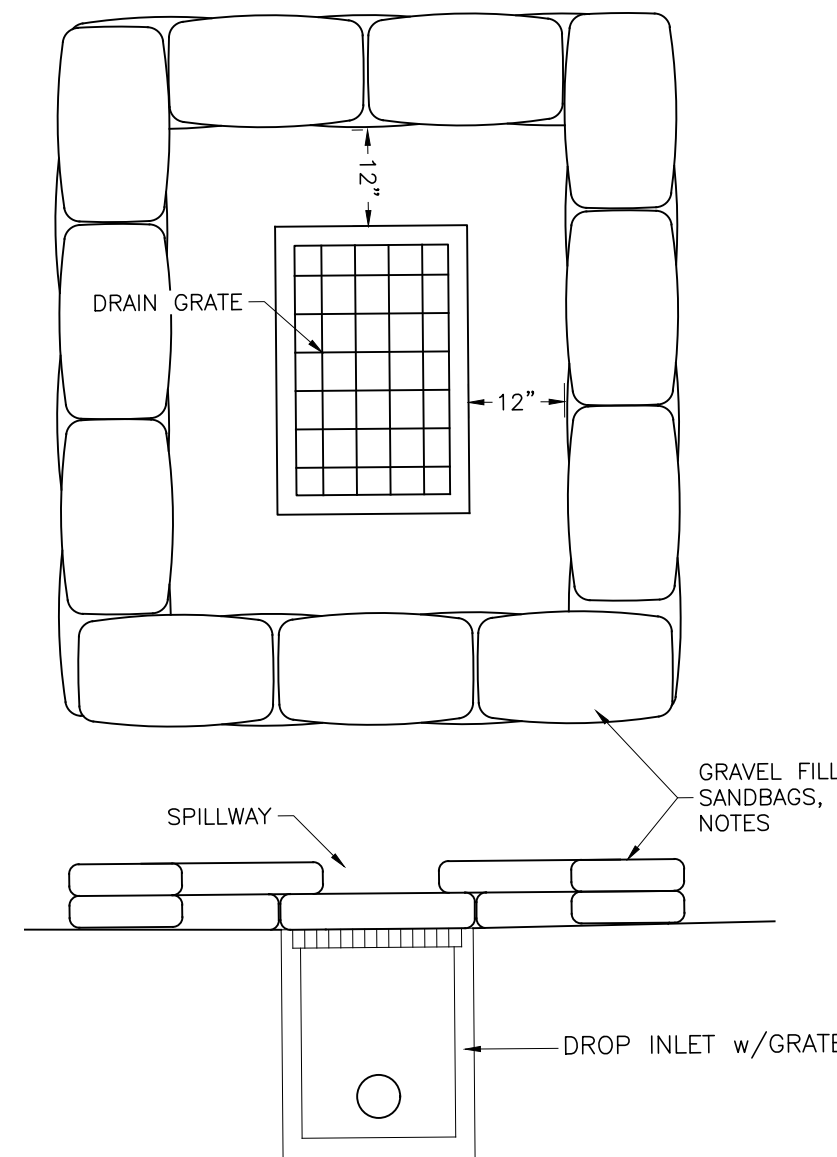
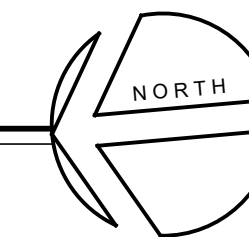


3 STRAW WATTLE/FIBER ROLL DETAIL
NO SCALE

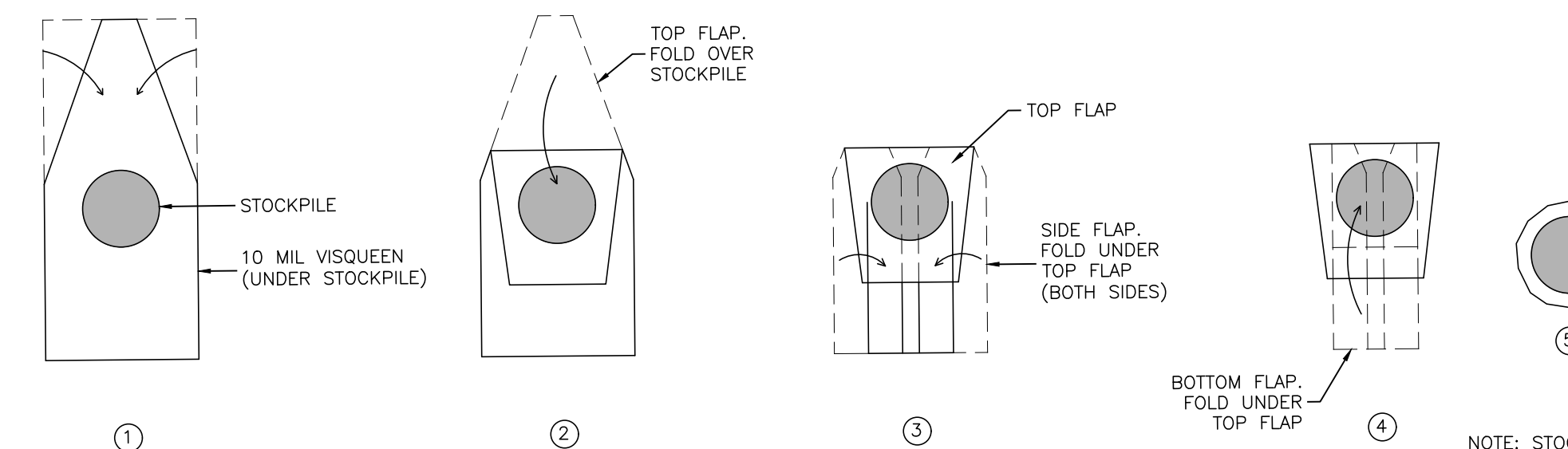


EROSION CONTROL PLAN

SCALE: 1"=10'



1 DI PROTECTION DETAIL
NO SCALE



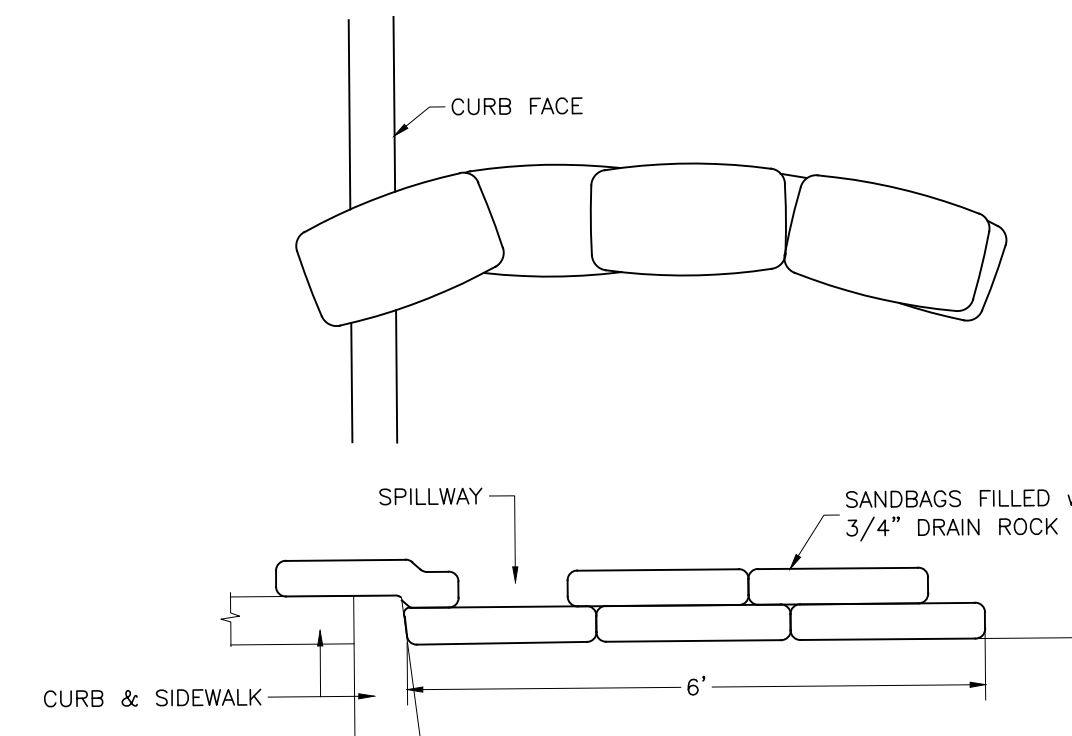
4 BURRITO WRAP STOCK PILE CONTAINMENT
NO SCALE

NOTES:

- 1.) CONSTRUCT AROUND DRAINAGE INLETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- 2.) PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- 3.) LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- 4.) INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (6").
- 5.) SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- 6.) SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- 7.) SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.
- 8.) POST ROAD PAVING, FULL DI PROTECTION CAN BE REPLACED WITH CHECK DAMS IN THE GUTTER.

NOTES:

- 1.) CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- 2.) PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- 3.) LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- 4.) INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
- 5.) SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- 6.) SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- 7.) SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.

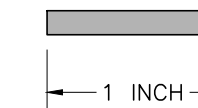


2 CHECK DAM DETAIL
NO SCALE

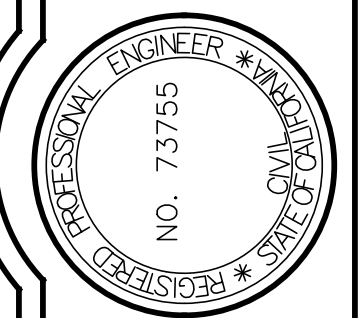
NOTE: STOCK PILE LOCATION IS NOT SHOWN ON MAP.

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**RCEA ELECTRIC VEHICLE CHARGING STATIONS
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9 Park St., Fortuna, CA. 95540
APN: 040-381-001

EROSION CONTROL PLAN
For: Redwood Coast Energy Authority, 633 3rd St., Eureka, CA 95501

Date MAR 12, '24
Scale AS NOTED
Design ZDJ
Drawn ALW
Job REA2301
Sheet

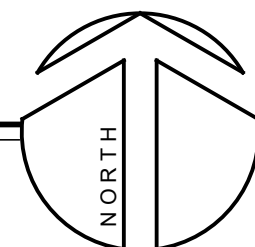
7.3

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LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 3300 RENNEN DRIVE, FORTUNA, CA 95540
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – PROVIDENCE REDWOOD MEMORIAL HOSPITAL
 APN: 202-082-064
 ZONING – PF – PUBLIC FACILITY
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – NO
 PROJECT SCOPE – CONSTRUCTION OF 2 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATIONS AND ASSOCIATED PARKING STALLS
 BUILDING DEPARTMENT – CITY OF FORTUNA
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST:
 JACOB BOLTON
 ST. JOES REDWOOD MEMORIAL HOSPITAL
 3300 RENNEN DRIVE
 FORTUNA, CA 95540
 (707) 407-6450

APPLICANT:
 REDWOOD COAST ENERGY AUTHORITY
 c/o MIKE AVCOLLIE
 633 THIRD STREET
 EUREKA, CA 95501
 (707) 269-1700

PROJECT CONSULTANTS

CIVIL ENGINEERING:
 WHITCHURCH ENGINEERING, INC.
 610 9th STREET
 FORTUNA, CA 95540
 (707) 725-6926

SURVEYOR:
 WHITCHURCH ENGINEERING, INC.
 610 9th STREET
 FORTUNA, CA 95540
 (707) 725-6926

SHEET INDEX

- B.1 VICINITY MAP & NOTES
- B.2 SITE PLAN
- B.3 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970 AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR CITY OF FORTUNA DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO: BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF CITY OF FORTUNA PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE CITY OF FORTUNA ORDINANCE.

1. TOPSOIL- TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS.
2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAN 1500 P.S.I COMPRESSIVE STRENGTH.
6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 1'-1.5' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND Laterally A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION SHOULD EXTEND Laterally A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS, REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

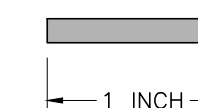
SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE, ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:

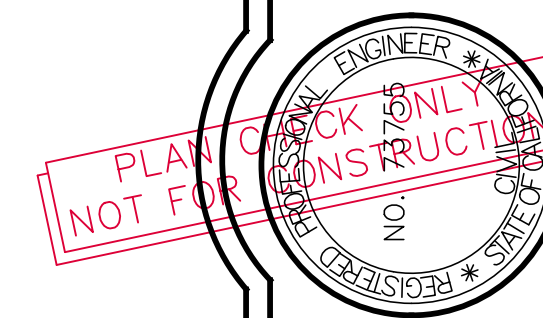
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



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REVISIONS	BY

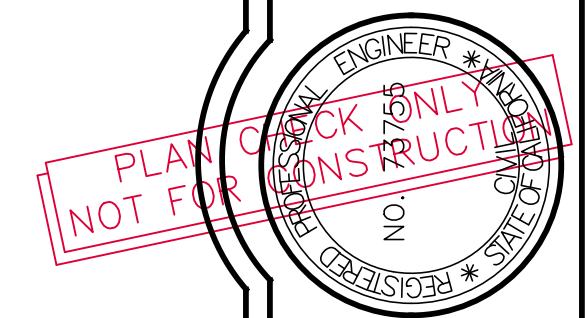
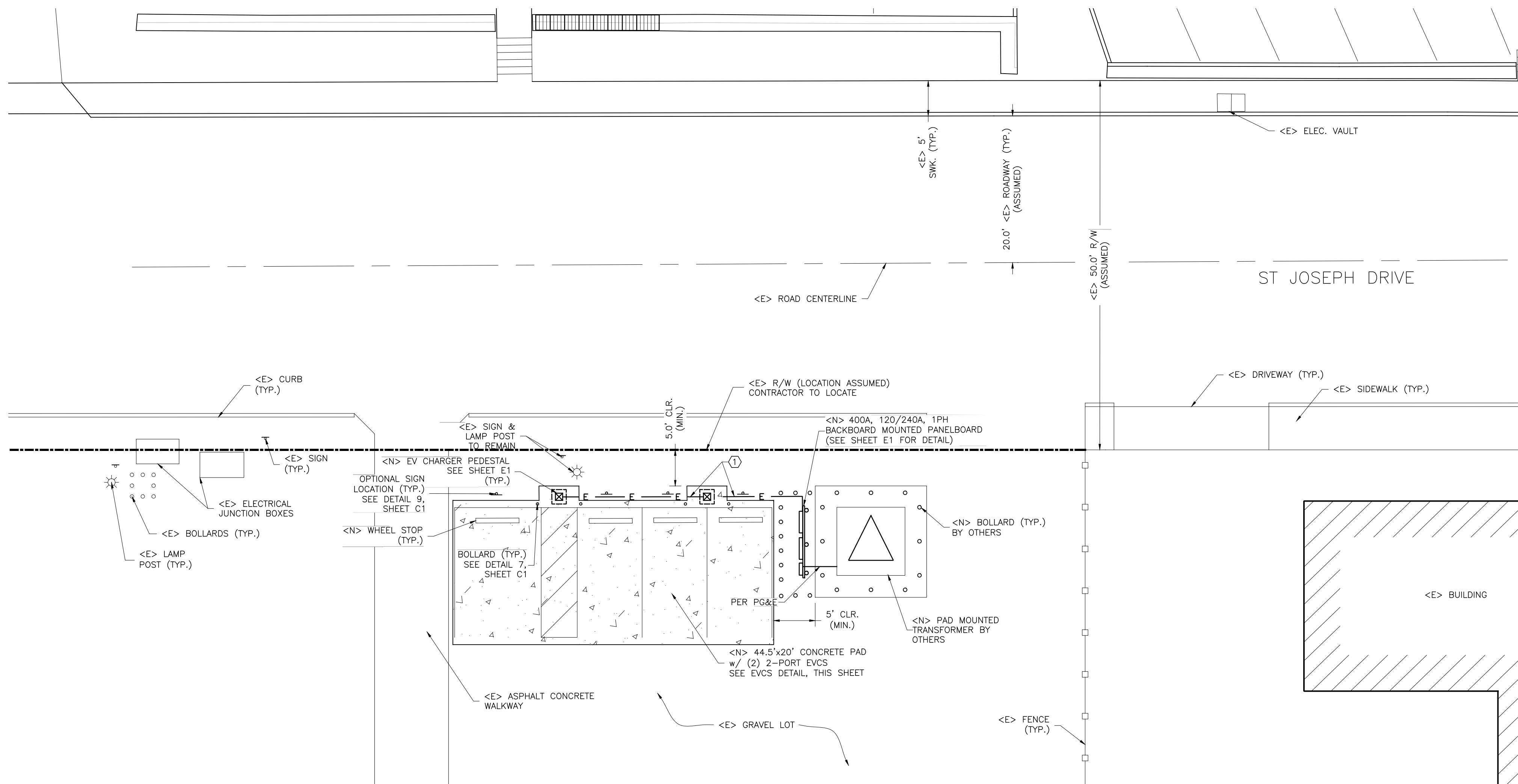


WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS
 — REDWOOD MEMORIAL HOSPITAL
 3300 RENNEN DRIVE, FORTUNA, CA 95540
 APN: 202-082-064

VICINITY MAP & NOTES
 For: REDWOOD COAST ENERGY AUTHORITY; 633 3RD ST., EUREKA, CA 95501

Date	MAR 12, '24
Scale	AS NOTED
Design	ALW
Drawn	ALW
Job	REA 2301
Sheet	8.1



REVISIONS	BY

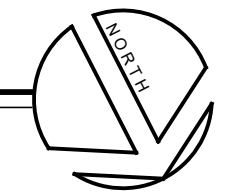
WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

SITE PLAN NOTES

- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 24, 2023 AND GOOGLE EARTH IMAGING.
- NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
- ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
- CITY OF FORTUNA TO APPROVE OF <N> CONSTRUCTION WITH RELATION TO CITY RIGHT OF WAY.
- CONTRACTOR TO LOCATE RIGHT OF WAY PRIOR TO CONSTRUCTION.
- PG&E TO APPROVE OF <N> 400A PANEL & BACKBOARD LOCATION PRIOR TO CONSTRUCTION.
- EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

SITE PLAN

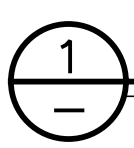
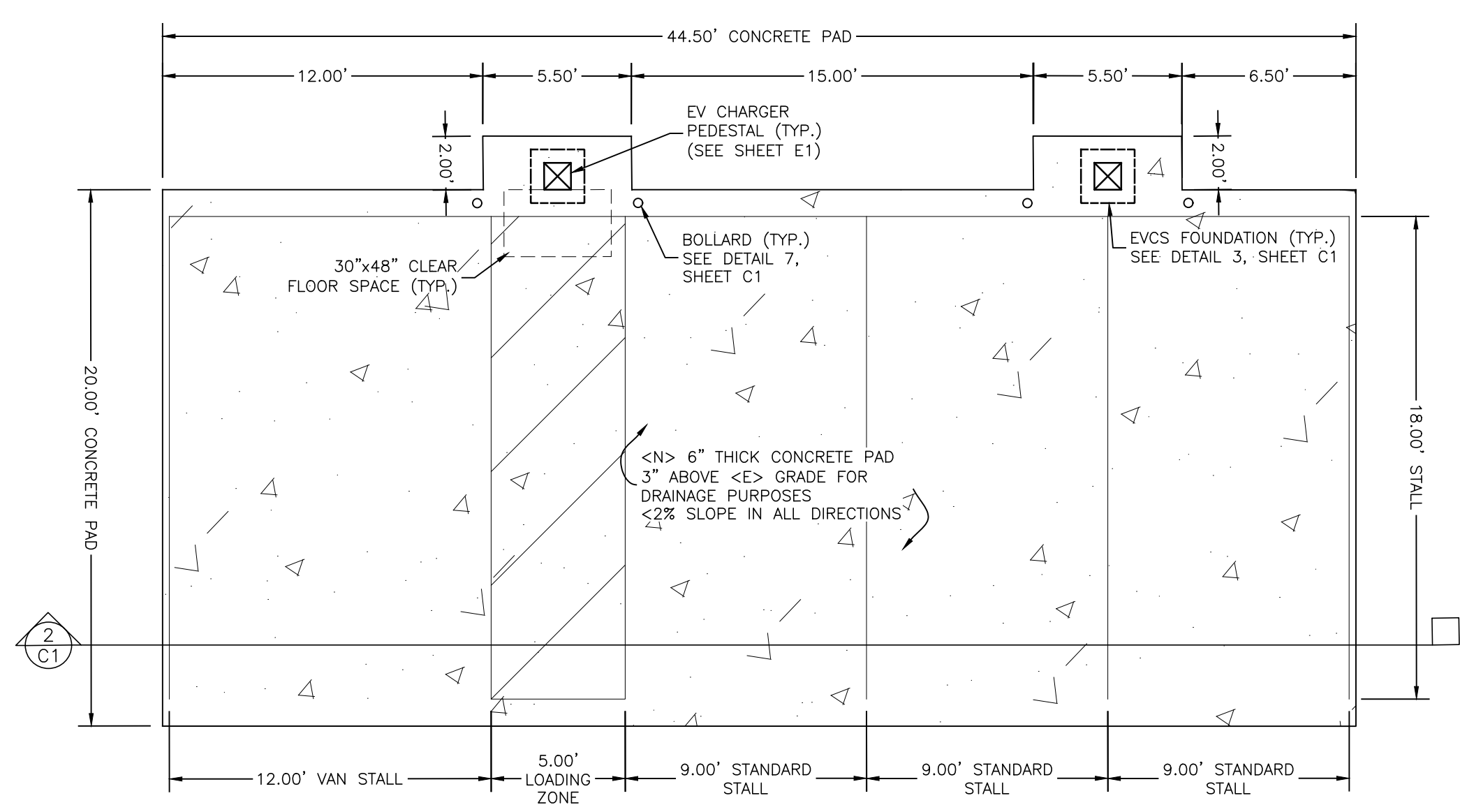
SCALE: 1"=10'



RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	16'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG. AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DI DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD
- SWK. SIDEWALK
- TBR TO BE REMOVED
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTIL. UTILITY
- W WATER
- W/ WITH
- WM WATER METER
- WV WATER VALVE



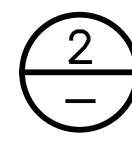
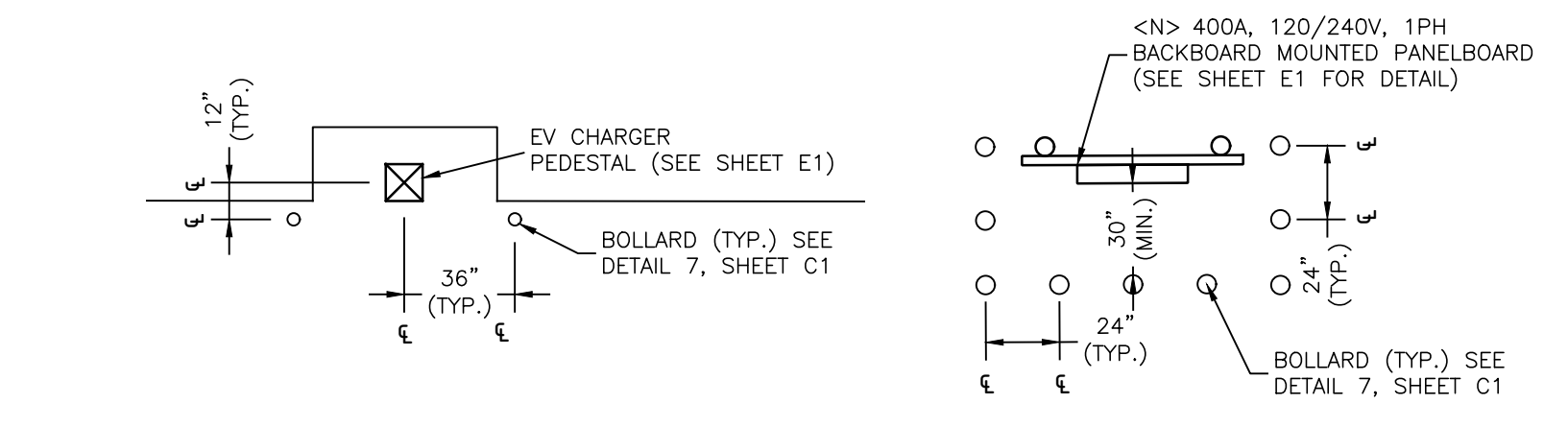
EVCS DETAIL

SCALE: 1"=5'

*EVCS STRIPING PER DETAIL 8, SHEET C1 (TYP.)

CONDUIT & CONDUCTOR SCHEDULE

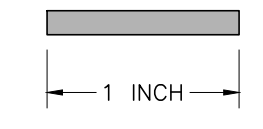
- NOTE:
- ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2kW, (4) 80A CIRCUITS @ 240V. (4) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 - EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT



BOLLARD SPACING DETAIL

SCALE: 1"=5'

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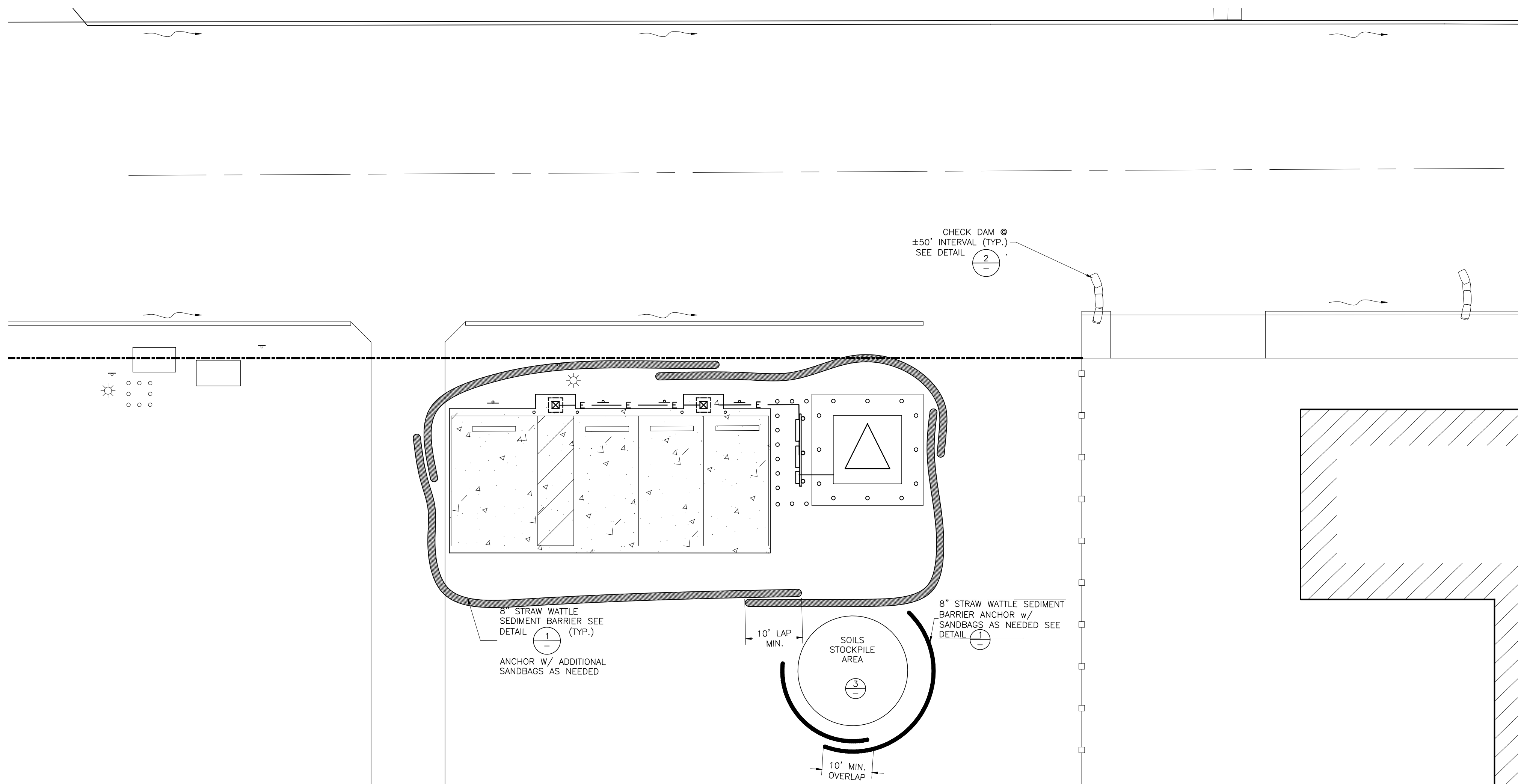
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REDA ELECTRIC VEHICLE CHARGING STATIONS
REDWOOD MEMORIAL HOSPITAL
 3300 RENNERT DRIVE, FORTUNA, CA 95540
 APN: 202-082-064

For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

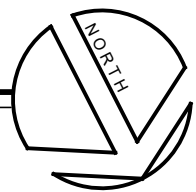
SITE PLAN

Date	MAR 12, '24
Scale	AS NOTED
Design	ALW
Drawn	ALW
Job	REA 2301
Sheet	8.2



EROSION CONTROL PLAN

SCALE: 1"=10'



EROSION CONTROL NOTES

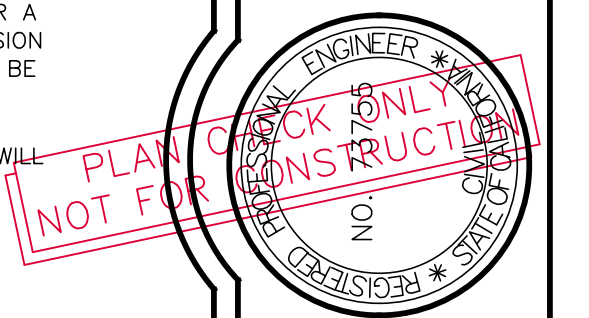
- A. GENERAL
- THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
 - THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
 - THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
 - A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.
- B. WATER COURSES
- EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
 - CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
 - TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
 - TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
 - EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
 - A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
 - ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
- C. DISPOSAL OF EXCAVATED MATERIALS
- EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.
- D. DUST CONTROL
- EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.
- E. REMOVAL OF VEGETATION AND REVEGETATION
- VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.
 - FINAL REPORTS AND NOTIFICATION OF COMPLETION
- F. UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEERED GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
- THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.

POST CONSTRUCTION BMP's

- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
- ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.

GENERAL NOTE

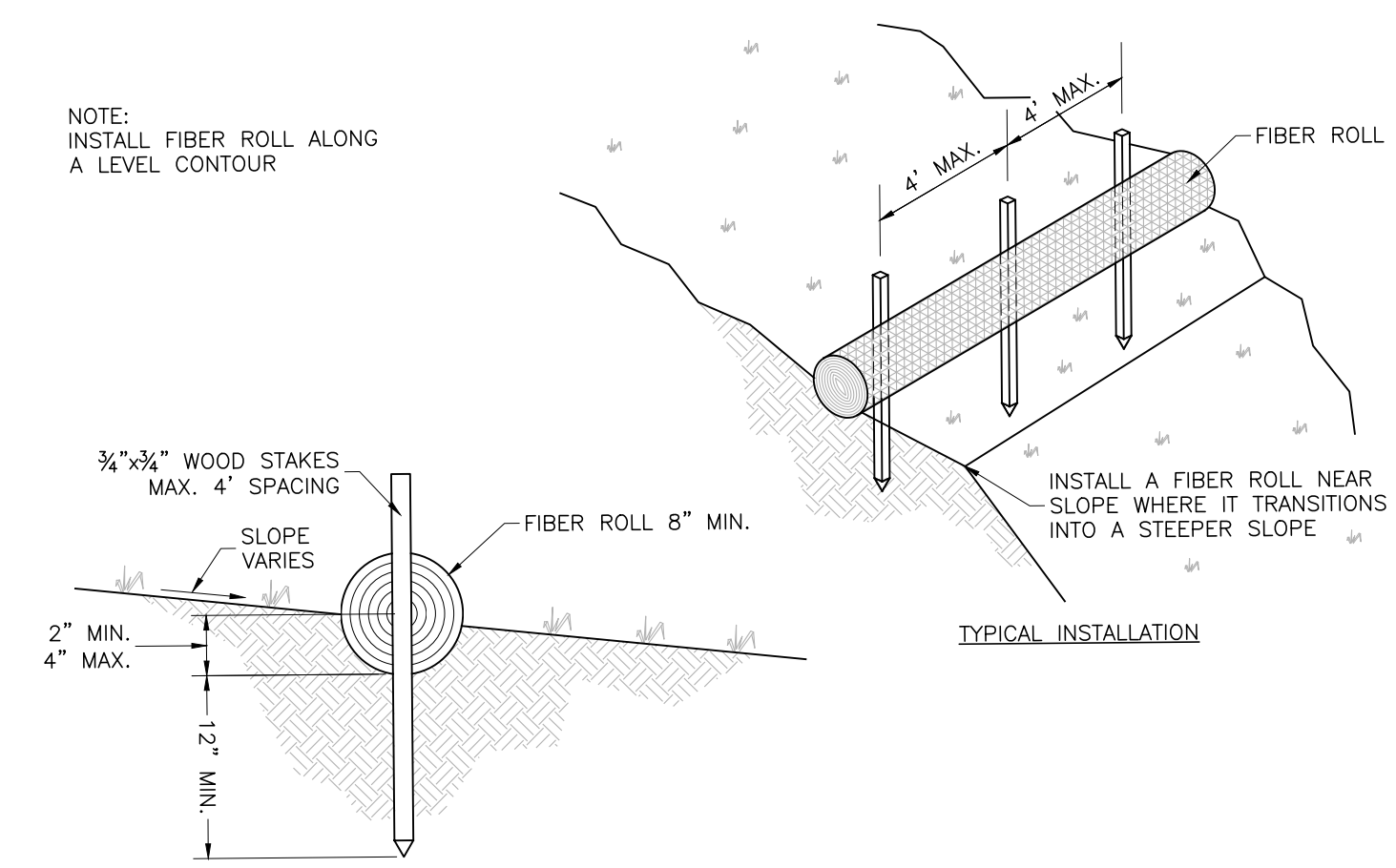
NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.



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APN: 202-082-064
EROSION CONTROL PLAN
For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

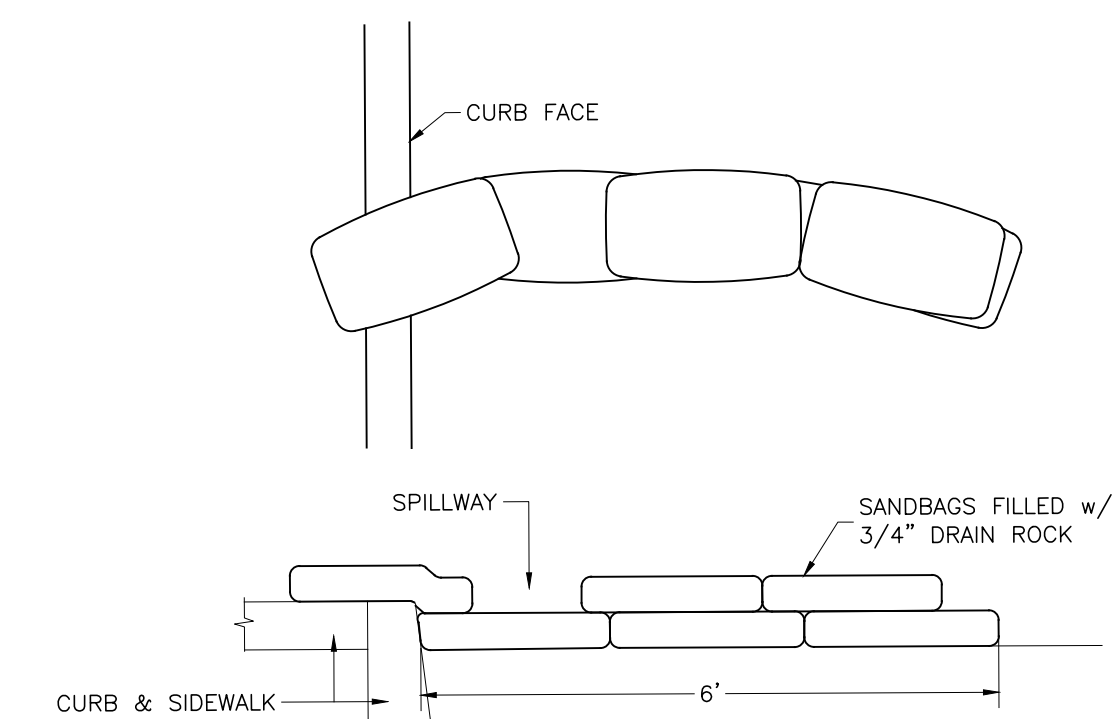
NOTE: INSTALL FIBER ROLL ALONG A LEVEL CONTOUR



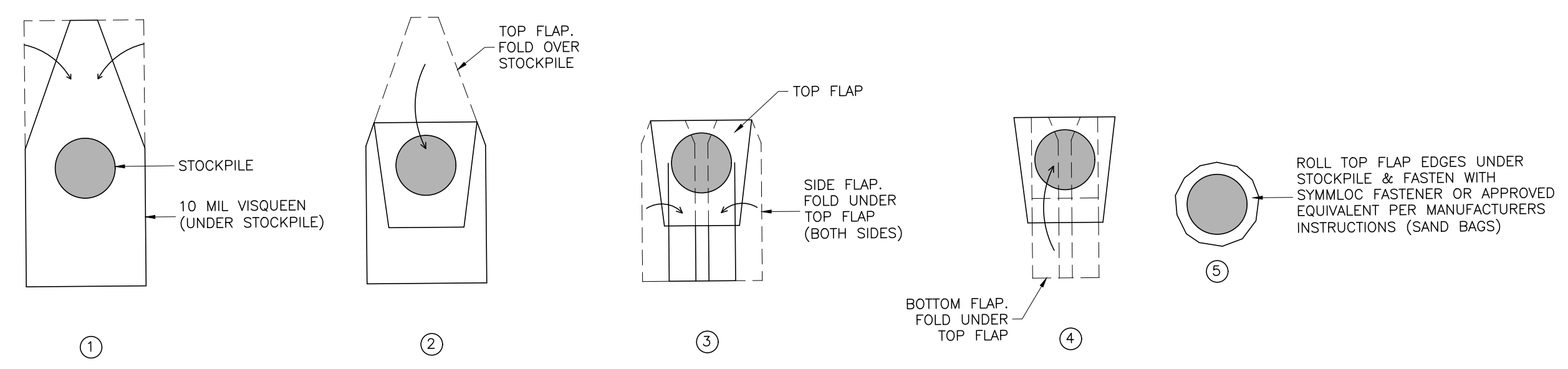
1 STRAW WATTLE/FIBER ROLL DETAIL
NO SCALE

NOTES:

- CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST. OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
- SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.

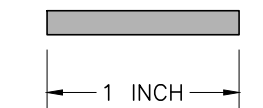


2 CHECK DAM DETAIL
NO SCALE



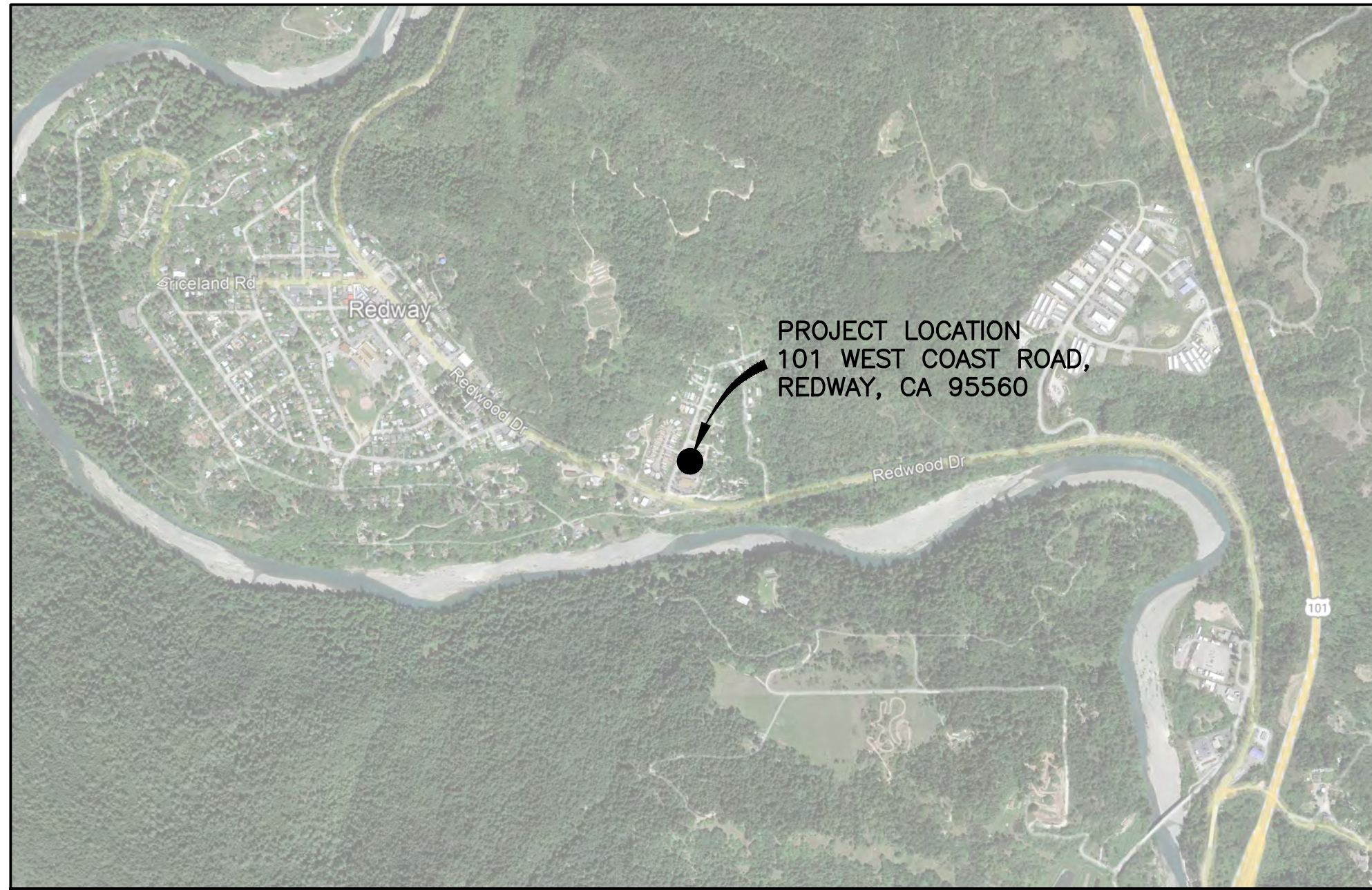
3 BURRITO WRAP STOCK PILE CONTAINMENT
NO SCALE

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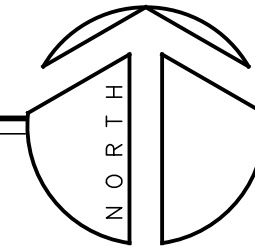
Date	MAR 12, '24
Scale	AS NOTED
Design	ALW
Drawn	ALW
Job	REA 2301
Sheet	8.3



PROJECT LOCATION
101 WEST COAST ROAD,
REDWAY, CA 95560

LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 101 WEST COAST ROAD, REDWAY, CA 95560
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – REDWOOD RURAL HEALTH CENTER
 APN: 077-312-016
 ZONING – C-2 – COMMUNITY COMMERCIAL
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – YES
 PROJECT SCOPE – CONSTRUCTION OF 1 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATION AND ASSOCIATED PARKING STALLS
 BUILDING DEPARTMENT – HUMBOLDT COUNTY
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

APPLICANT INFO

SITE HOST: TERRI KLEMETSON REDWOOD RURAL HEALTH CENTER 101 WEST COAST ROAD #B REDWAY, CA 95560 (707) 223-0303	APPLICANT: REDWOOD COAST ENERGY AUTHORITY c/o MIKE AVCOLLIE 633 THIRD STREET EUREKA, CA 95501 (707) 269-1700
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PROJECT CONSULTANTS

CIVIL ENGINEERING: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926	SURVEYOR: WHITCHURCH ENGINEERING, INC. 610 9th STREET FORTUNA, CA 95540 (707) 725-6926
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SHEET INDEX

- 9.1 VICINITY MAP & NOTES
- 9.2 SITE & GRADING PLAN
- 9.3 EROSION CONTROL PLAN
- C1 CIVIL DETAILS
- E1 ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF COUNTY OF HUMBOLDT PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.

EARTHWORK AND BACKFILL

ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE COUNTY OF HUMBOLDT ORDINANCE.

1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS. DEPTH OF TOPSOIL AVERAGES 0.5-1.0 FEET.
2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAN 1500 P.S.I COMPRESSIVE STRENGTH.
6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.
10. EXCESS FILL MATERIAL SHALL BE HAULED TO AN APPROVED DIRT DISPOSAL SITE BY CONTRACTOR.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 0.5'-1.0' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS. REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

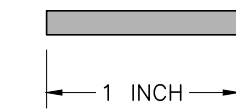
SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS ALL GRADING-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

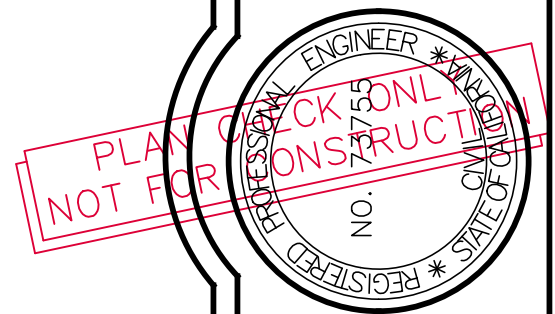
HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:

1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



REVISIONS	BY



WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS
 — REDWOOD RURAL HEALTH CENTER
 101 WEST COAST ROAD, REDWAY, CA 95560
 APN: 077-312-016

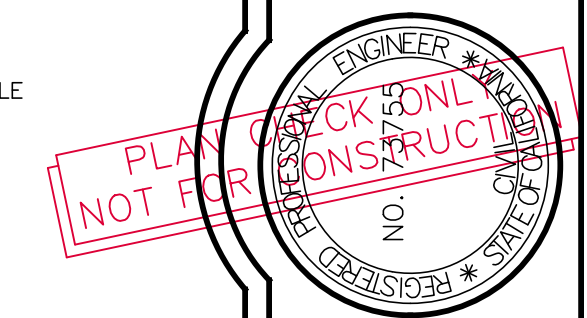
SITE VICINITY MAP & NOTES

For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR 12, 24'
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	9.1

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RCEA ELECTRIC VEHICLE CHARGING STATIONS
REDWOOD RURAL HEALTH CENTER
 101 WEST COAST ROAD, REDWAY, CA 95560
 APN: 077-312-016

SITE & GRADING PLAN

For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR 12, 24'
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	REA 2301
Sheet	9.2

GRADING NOTES

- STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. WHITCHURCH ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
- TOPOGRAPHIC DATA IS BASED ON WHITCHURCH ENGINEERING SURVEY DATED OCTOBER 11, 2023 AND EXISTING RIGHT OF WAY SURFACE FEATURES FOUND ON SITE. ACTUAL BOUNDARY LINES, BUILDING CORNERS, AND EASEMENTS ARE NOT REPRESENTED IN THIS DRAWING.
- TEMPORARY BENCHMARK NEAR THE WESTERN EDGE OF WEST COAST ROAD, DIRECTLY WEST OF THE REDWOOD RURAL PARKING LOT, P.K. NAIL & SHINER WITH AN ASSUMED ELEVATION OF 337.56'. VERTICAL DATUM IS ASSUMED.
- CONTOURS SHOWN AT 1' INTERVAL.
- DATUM IS NAD83

GRADING LEGEND

- 000.00 - EXISTING GRADE
- 000.00 - PROPOSED GRADE
- [Symbol] - PROPOSED CONCRETE
- [Symbol] - EXISTING AC PAVING
- [Symbol] - EXISTING CONCRETE TO REMAIN
- [Symbol] - EXISTING CONCRETE TO BE REMOVED
- [Symbol] - MAJOR CONTOUR
- [Symbol] - MINOR CONTOUR

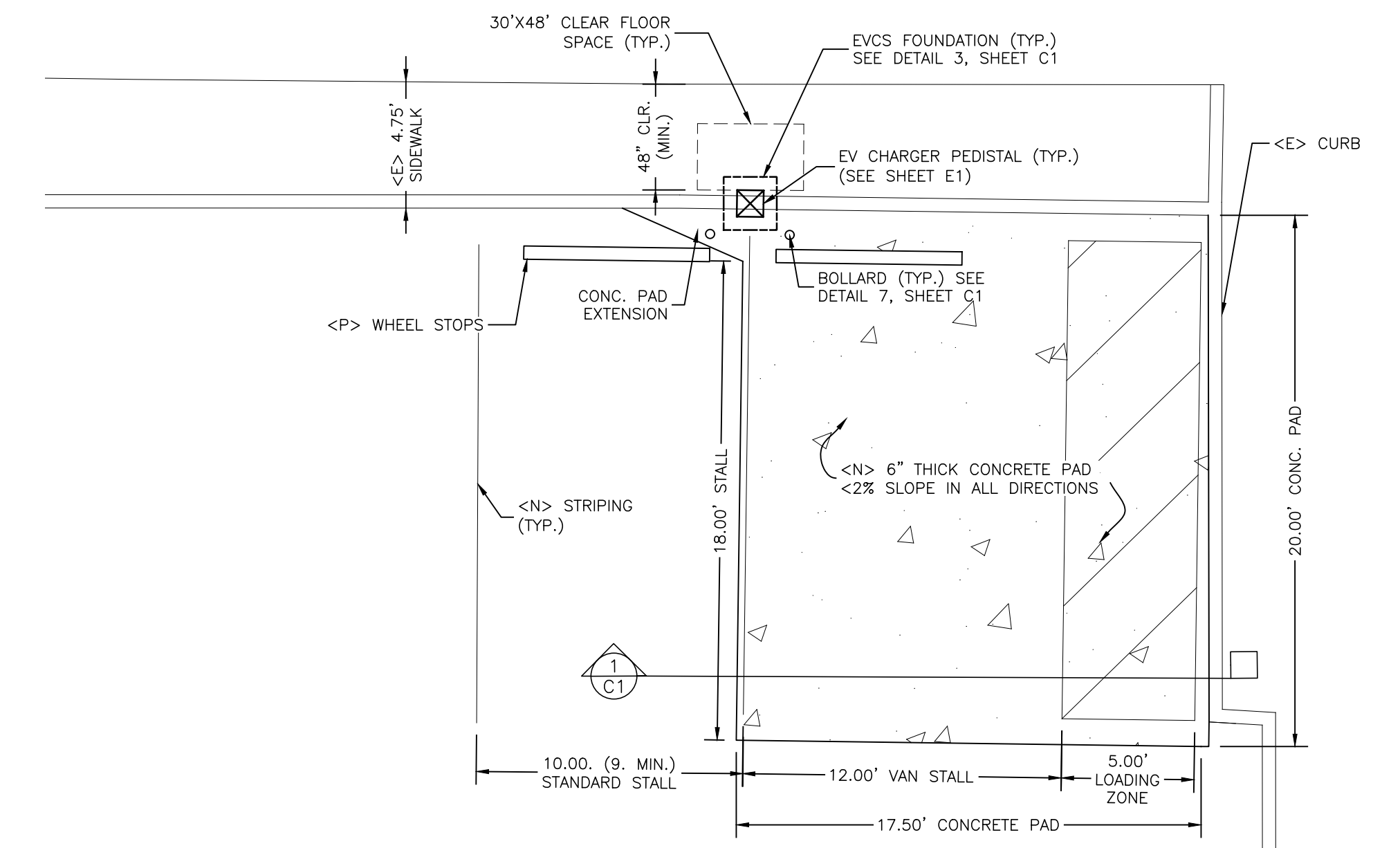
ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DI DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD
- SWK. SIDEWALK
- TBR TO BE REMOVED
- TB TOP OF BANK
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTIL. UTILITY
- W WITH
- WM WATER METER
- WV WATER VALVE

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	87'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

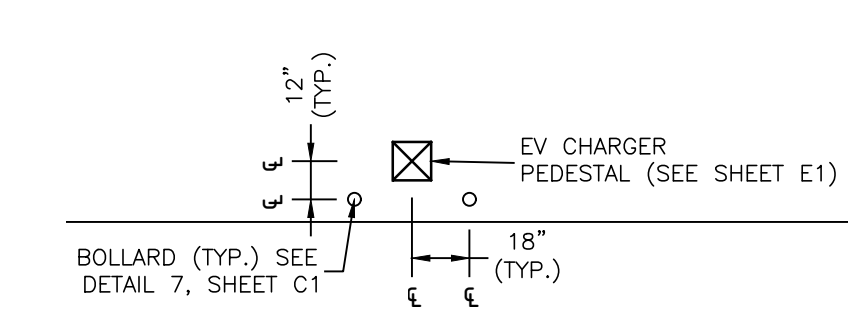
CONDUIT & CONDUCTOR SCHEDULE

- NOTE:**
- ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2KW, (2) 80A CIRCUITS @ 240V. (2) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS.
 - EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNS, (1) FOR EACH CHARGING PORT.



EVCS DETAIL

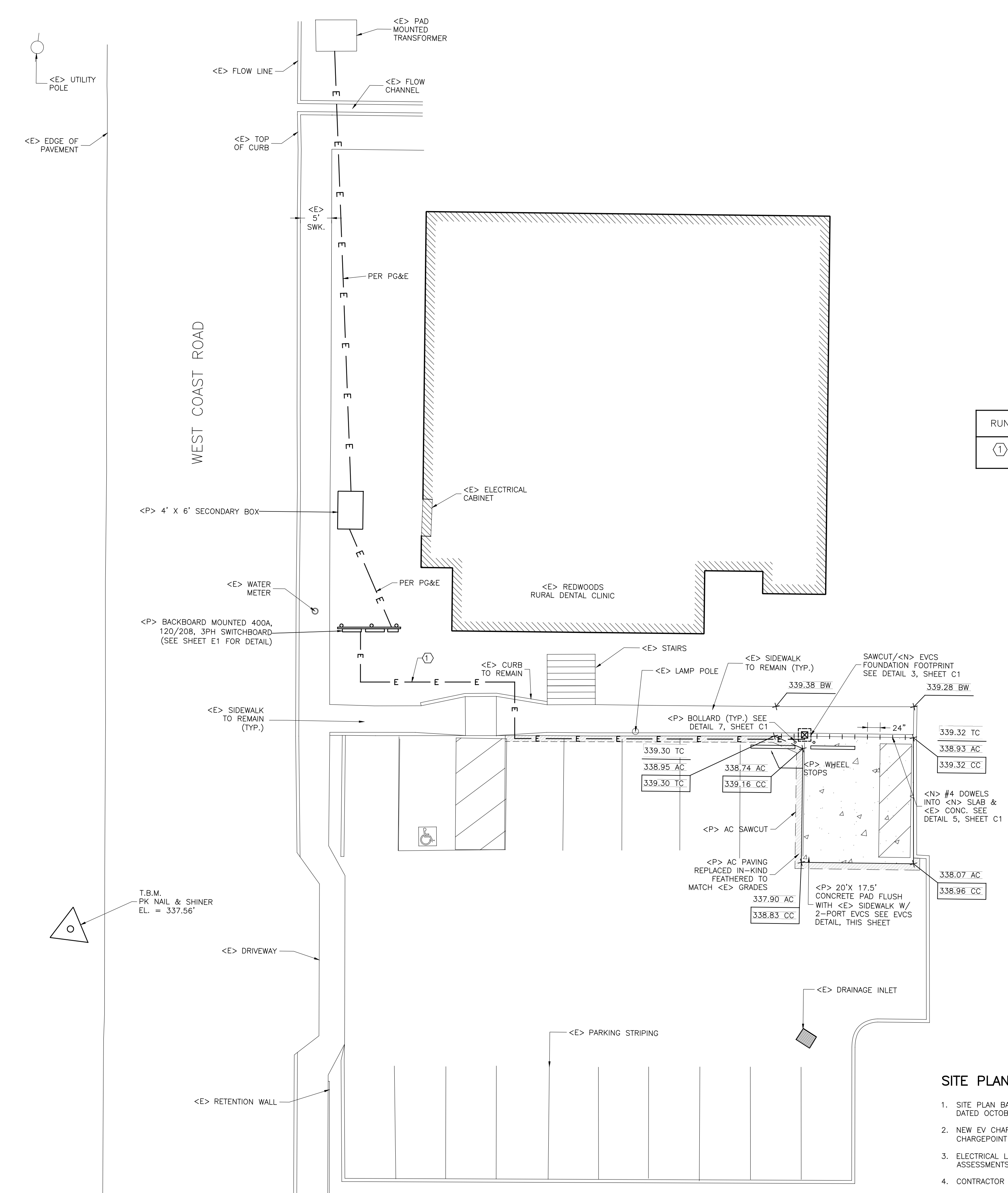
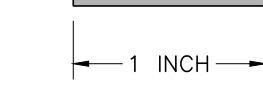
SCALE: 1"=5'



BOLLARD SPACING DETAIL

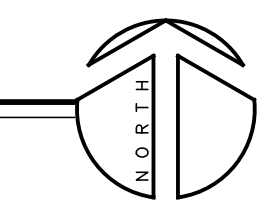
SCALE: 1"=5'

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



SITE PLAN

SCALE: 1"=10'



SITE PLAN NOTES

- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 11, 2023.
- NEW EV CHARGING STATIONS SHOWN TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
- ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
- CONTRACTOR SHALL SAWCUT AS NECESSARY FOR INSTALLATION.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO <E> SIDEWALKS/LANDSCAPE TO THE EXTENT POSSIBLE.
- ALL <E> SIDEWALKS SHALL REMAIN.

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REVISIONS	BY

WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
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EROSION CONTROL PLAN
 RCEA ELECTRIC VEHICLE CHARGING STATIONS
 - REDWOOD RURAL HEALTH CENTER
 101 WEST COAST ROAD, REDWAY, CA 95560
 APN: 077-312-016

Date MAR 12, 24
 Scale AS NOTED
 Design ZDJ
 Drawn ALW
 Job REA 2301
 Sheet 9.3

EROSION CONTROL NOTES

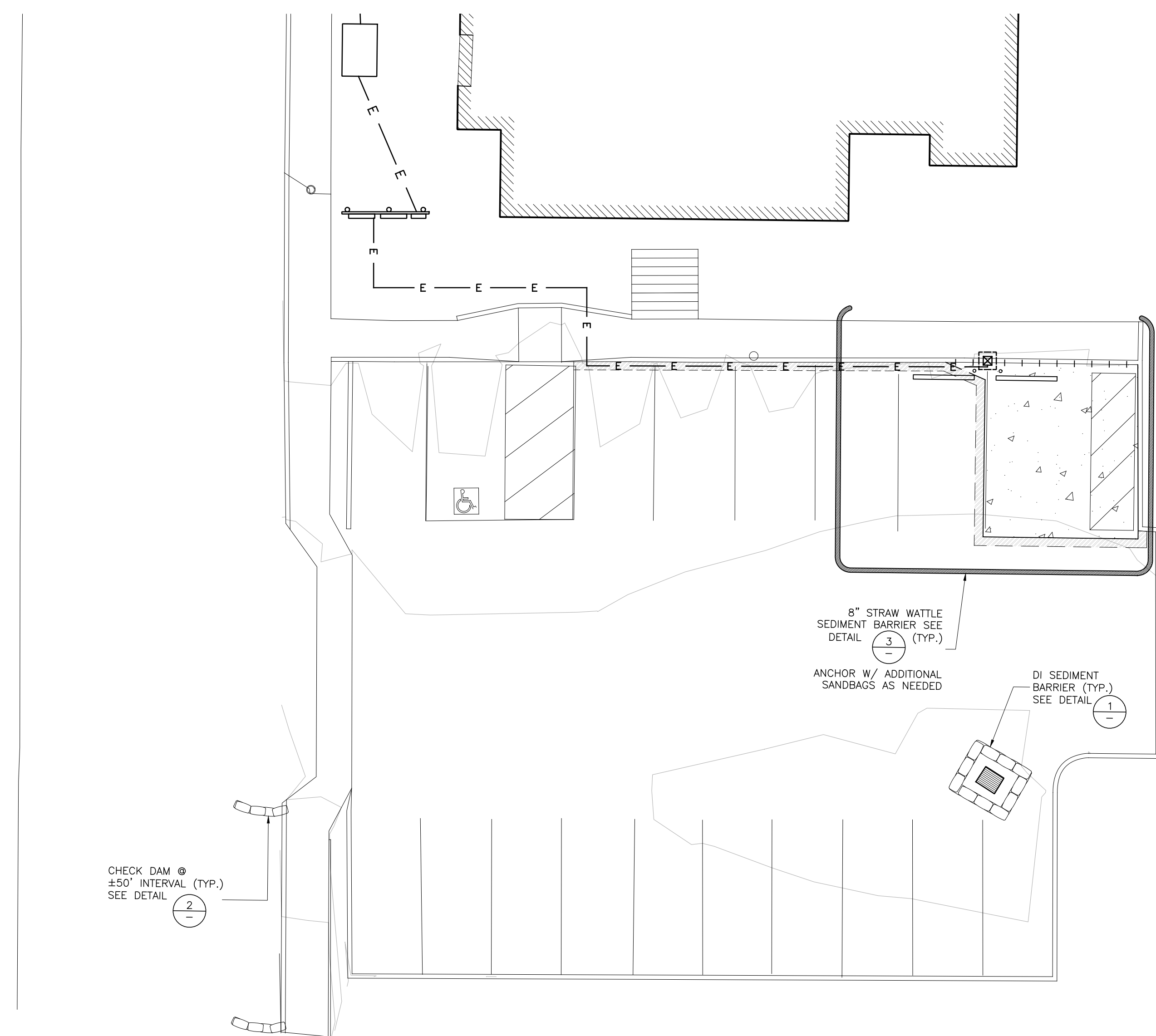
- A. GENERAL
- THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
 - THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
 - THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
 - A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.
- B. WATER COURSES
- EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
 - CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
 - TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
 - TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
 - EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
 - A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
 - ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
- C. DISPOSAL OF EXCAVATED MATERIALS
- EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.
- D. DUST CONTROL
- EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.
- E. REMOVAL OF VEGETATION AND REVEGETATION
- VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.
- F. FINAL REPORTS AND NOTIFICATION OF COMPLETION
- UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEERED GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
 - THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.

POST CONSTRUCTION BMP'S

- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
- ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.

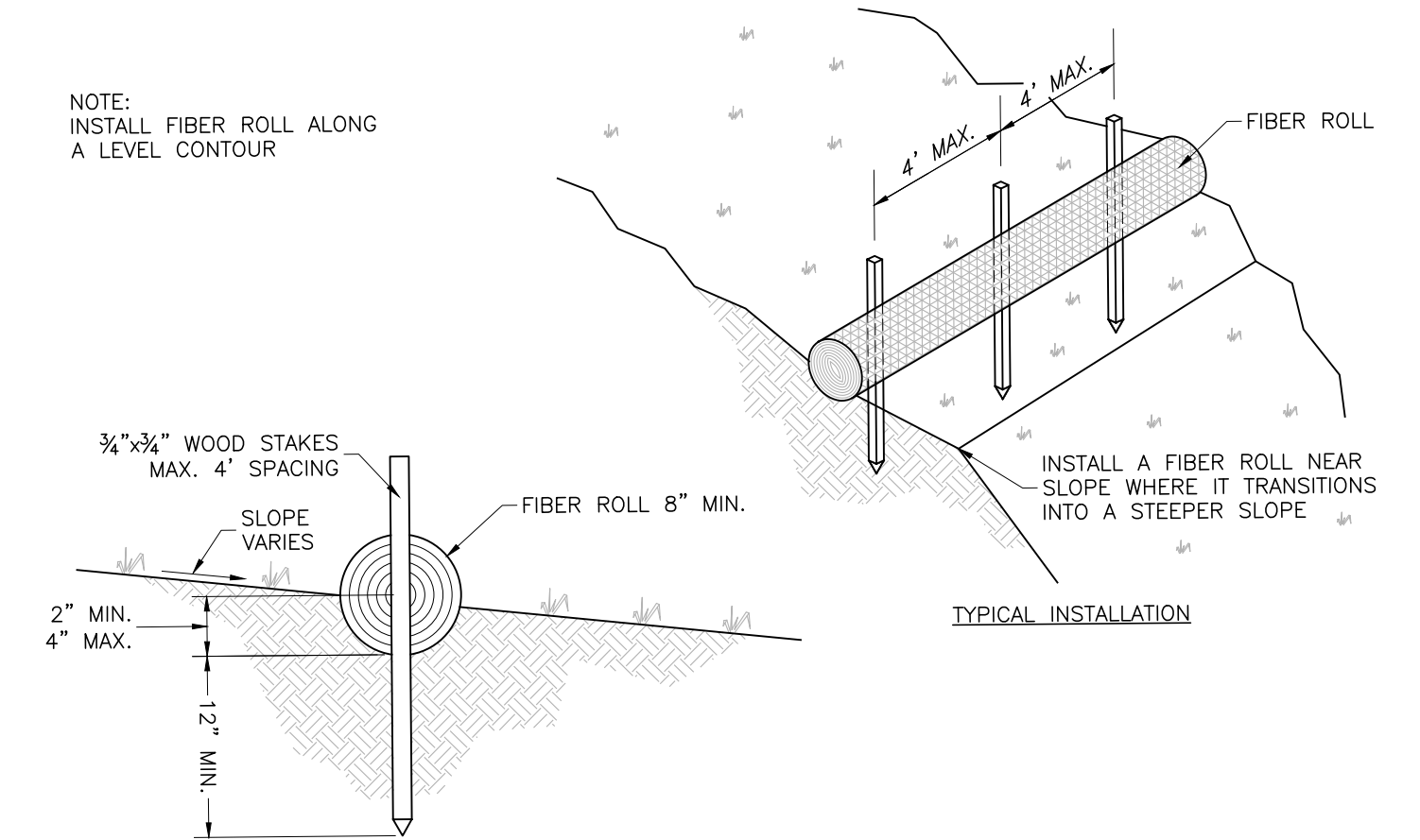
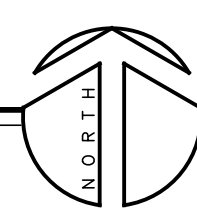
GENERAL NOTE

NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.

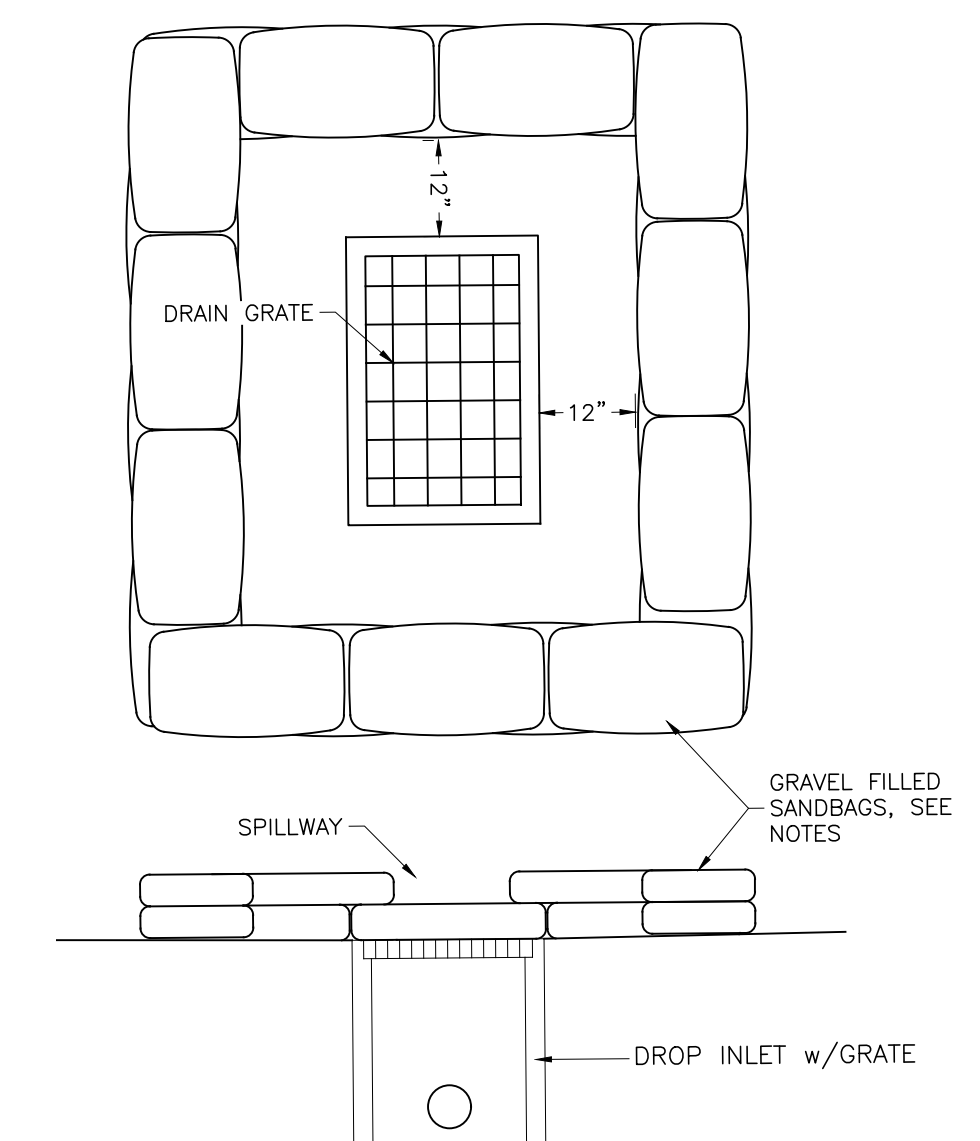


EROSION CONTROL PLAN

SCALE: 1"=10'

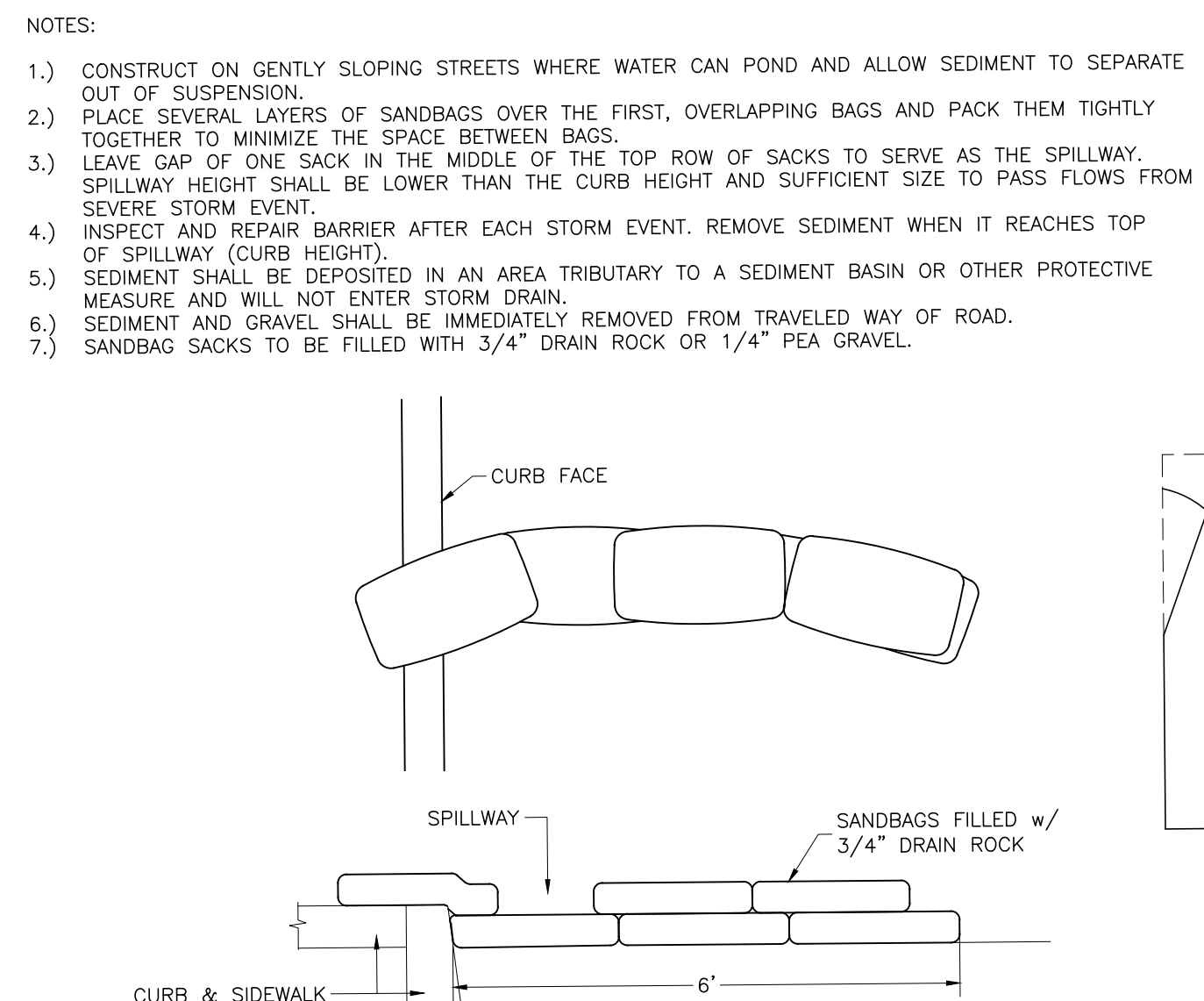


3
STRAW WATTLE/FIBER ROLL DETAIL
 NO SCALE



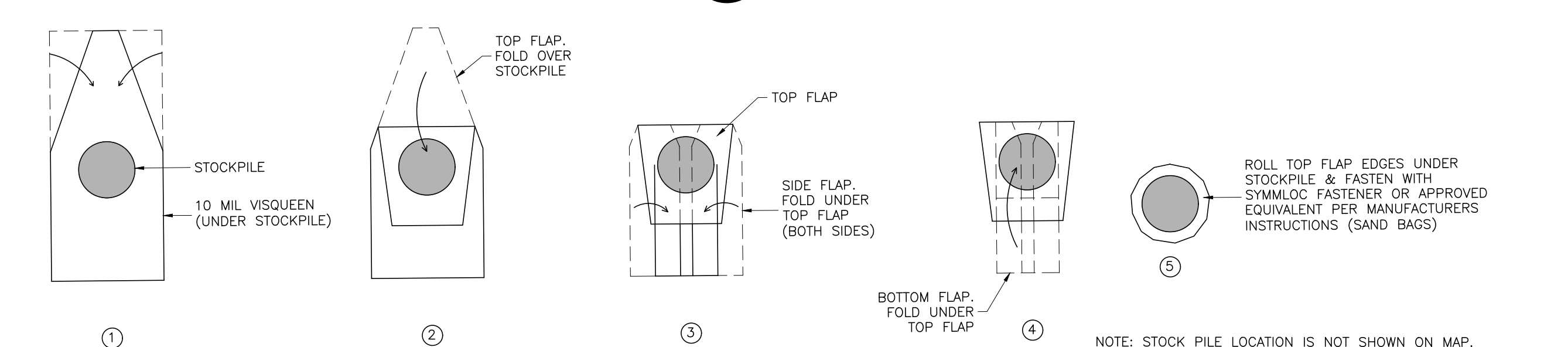
1
DI PROTECTION DETAIL
 NO SCALE

- NOTES:
- CONSTRUCT AROUND DRAINAGE INLETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
 - PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
 - LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
 - INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (6").
 - SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
 - SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
 - SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.
 - POST ROAD PAVING, FULL DI PROTECTION CAN BE REPLACED WITH CHECK DAMS IN THE GUTTER.



2
CHECK DAM DETAIL
 NO SCALE

- NOTES:
- CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
 - PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
 - LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
 - INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
 - SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
 - SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
 - SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.



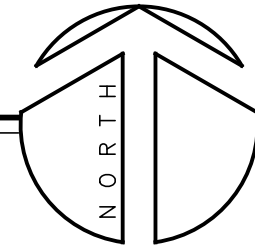
4
BURRITO WRAP STOCK PILE CONTAINMENT
 NO SCALE

THIS DRAWING OR DRAWING SET SHALL NOT BE USED FOR CONSTRUCTION UNLESS A JURISDICTIONAL STAMP (COUNTY, CITY, STATE, FEDERAL) HAS BEEN ISSUED ON THE DRAWING, STATING "FOR PERMIT" OR SIMILAR VERBIAGE, A WET SIGNED PROFESSIONAL ENGINEER'S STAMP, AND PERMIT DOCUMENTS HAVE BEEN ISSUED FOR THE PROJECT.



LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT ADDRESS – 412 MAPLE LANE, GARBERVILLE, CA 95542
 CLIENT – REDWOOD COAST ENERGY AUTHORITY
 PROPERTY OWNER – HEMP CONNECTION
 APN: 032-051-009
 ZONING – C2-D – COMMUNITY COMMERCIAL RETAIL
 COASTAL ZONE – NO
 100-YEAR FLOOD ZONE – NO
 SRA AREA – YES
 PROJECT SCOPE – CONSTRUCTION OF 1 DUAL PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATION AND ASSOCIATED PARKING STALLS
 BUILDING DEPARTMENT – HUMBOLDT COUNTY
 BUILDING CODES – 2022 CBC, CPC, CEC, CFC, & ENERGY CODE

PROJECT CONSULTANTS

CIVIL ENGINEERING:
 WHITCHURCH ENGINEERING, INC.
 610 9th STREET
 FORTUNA, CA 95540
 (707) 725-6926

SURVEYOR:
 WHITCHURCH ENGINEERING, INC.
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 FORTUNA, CA 95540
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SHEET INDEX

- 10.1 – VICINITY MAP & NOTES
- 10.2 – SITE PLAN
- 10.3 – EROSION CONTROL PLAN
- C1 – CIVIL DETAILS
- E1 – ELECTRICAL DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL AND FIRE CODES, AND ALL APPENDICES THERETO, CALTRANS STANDARD PLANS & SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE YEAR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
6. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE CIVIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
7. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS, NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.
8. ALL BUILDING MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.
9. CONTRACTORS SHALL VERIFY EASEMENTS (PUBLIC OR PRIVATE) FOR SEWER, WATER, ELECTRICAL, TELEPHONE, CABLE T.V., AND GAS PRIOR TO STARTING CONSTRUCTION.
10. VERIFY ALL UTILITY DATA AND LOCATIONS PRIOR TO ANY WORK. ONSITE UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE AGENCY OR UTILITY COMPANY.
11. THE DESIGN CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.
12. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
13. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE OWNER'S REPRESENTATIVE INITIAL OR SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.
14. ALL USERS OF THESE DRAWINGS AGREE BY USING THESE DRAWINGS TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE C.B.C., ORDINANCES, AND ACCEPTABLE STANDARDS.
15. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.
16. THE DESIGN CONSULTANTS AND THE OWNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
17. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FEDERAL WILLIAMS – STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970' AND ANY AMENDMENTS THERETO. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS.
18. THE CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
19. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.
20. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FROM RECORD INFORMATION ONLY AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND CONSTRUCTION IN ANY AREA. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION. CONTRACTORS SHALL IMMEDIATELY REPORT ANY DISCREPANCIES IN RECORD INFORMATION TO ENGINEER AND DEVELOPER PRIOR TO CONSTRUCTING ANY WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS.
22. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF COUNTY OF HUMBOLDT PUBLIC WORKS OR PRIVATE PROPERTY OWNER INVOLVED.
23. THE ENGINEER OF RECORD SHALL PROVIDE A FINAL LETTER OF CERTIFICATION TO THE COUNTY OF HUMBOLDT BUILDING DEPARTMENT CONFIRMING THE PROJECT HAS BEEN COMPLETED IN CONFORMANCE WITH THE APPROVED SOILS REPORT, GRADING, AND EROSION AND SEDIMENT CONTROL PLAN.

EARTHWORK AND BACKFILL

- ALL EARTHWORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 18 AND 33 OF THE CBC 2022 EDITION AND THE COUNTY OF HUMBOLDT ORDINANCE.
1. TOPSOIL – TOPSOIL LAYER SHALL BE REMOVED PRIOR TO ESTABLISHING THE SUBGRADE ON COMPETENT SUBSOILS. DEPTH OF TOPSOIL AVERAGES 0.5-1.0 FEET.
 2. EXCAVATION – EXCAVATION SHALL INCLUDE ALL EXCAVATION REQUIRED FOR SITE AND/OR BUILDING WORK UNLESS OTHERWISE SPECIFIED. CUT SLOPES SHALL NOT EXCEED 2 (TWO) HORIZONTAL TO 1 (ONE) VERTICAL.
 3. FILL – FILL MATERIAL FOR THE FOUNDATIONS SHALL BE WELL GRADED CALTRANS CLASS II AGGREGATE SUB-BASE OR OTHER MATERIAL APPROVED BY THE PROJECT ENGINEER. FILL SHALL BE COMPACTED TO 90% (95% FOR TOP 24") RELATIVE COMPACTION. FILL SHALL BE PLACED AND COMPACTED IN 8 INCH LAYERS. COMPACTION TESTING IS REQUIRED. SUCH TESTING SHALL COMPLY TO ASTM LABORATORY TEST METHOD D-1557 SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
 4. BASE – PAVEMENT BASE AND BASE UNDER CONCRETE SHALL BE CLASS II AS SPECIFIED BY CALTRANS. BASE MATERIAL SHALL BE PLACED IN 6" THICK MAXIMUM UNIFORM LAYERS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY.
 5. STRUCTURAL BACKFILL – STRUCTURAL BACKFILL SHALL BE PLACED IN 8 INCH THICK MAXIMUM UNIFORM LAYERS. COMPACTION EQUIPMENT OR METHODS WHICH MAY CAUSE DISPLACEMENT OR DAMAGE STRUCTURES SHALL NOT BE USED. NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF NOT LESS THAT 1500 P.S.I COMPRESSIVE STRENGTH.
 6. PERMEABLE MATERIAL (FILTER GRAVEL) – PERMEABLE MATERIAL SHALL CONFORM TO CLASS 2 AS SPECIFIED BY CALTRANS UNLESS OTHERWISE NOTED ON PLANS.
 7. ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE DEPOSITED IN A STOCKPILE STORAGE AREA FOR LATER USE AS LANDSCAPING MATERIAL.
 8. JETTING OF FILL IS NOT RECOMMENDED FOR COMPACTION PURPOSES.
 9. MINIMUM POSITIVE DRAINAGE OF 5% AWAY FROM ALL BUILDING FOUNDATIONS AND FOOTINGS FOR A MINIMUM OR 10' HORIZONTAL DISTANCE.
 10. EXCESS FILL MATERIAL SHALL BE HAULED TO AN APPROVED DIRT DISPOSAL SITE BY CONTRACTOR.

SITE PREPARATION

1. ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 0.5'-1.0' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
2. THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
3. ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
4. THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
5. THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
6. EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.
7. THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATERALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDINGS. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS. REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
8. ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
9. IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

- THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:
1. WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
 2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
 3. PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
 4. SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
 5. SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
 6. INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
 7. REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

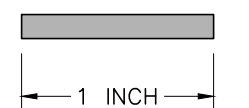
DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

- HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:
1. THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 9 A.M. AND 7 P.M. ON SATURDAYS.
 2. NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
 3. CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
 4. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
 5. UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED, THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
 6. ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
 7. CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
 8. TRUCK DRIVER SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

THESE PLANS ARE ORIGINALLY PRINTED ON 22"x34" PAPER.



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REVISIONS	BY

PLAN CHECK ONLY
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WHITCHURCH ENGINEERING, INC.
 610 9th Street Fortuna, California 95540
 Phone (707) 444-1420

**RCEA ELECTRIC VEHICLE CHARGING STATIONS
 - JEROLD PHELPS HOSPITAL**
 412 MAPLE LANE, GARBERVILLE, CA 95542
 APN: 032-051-009

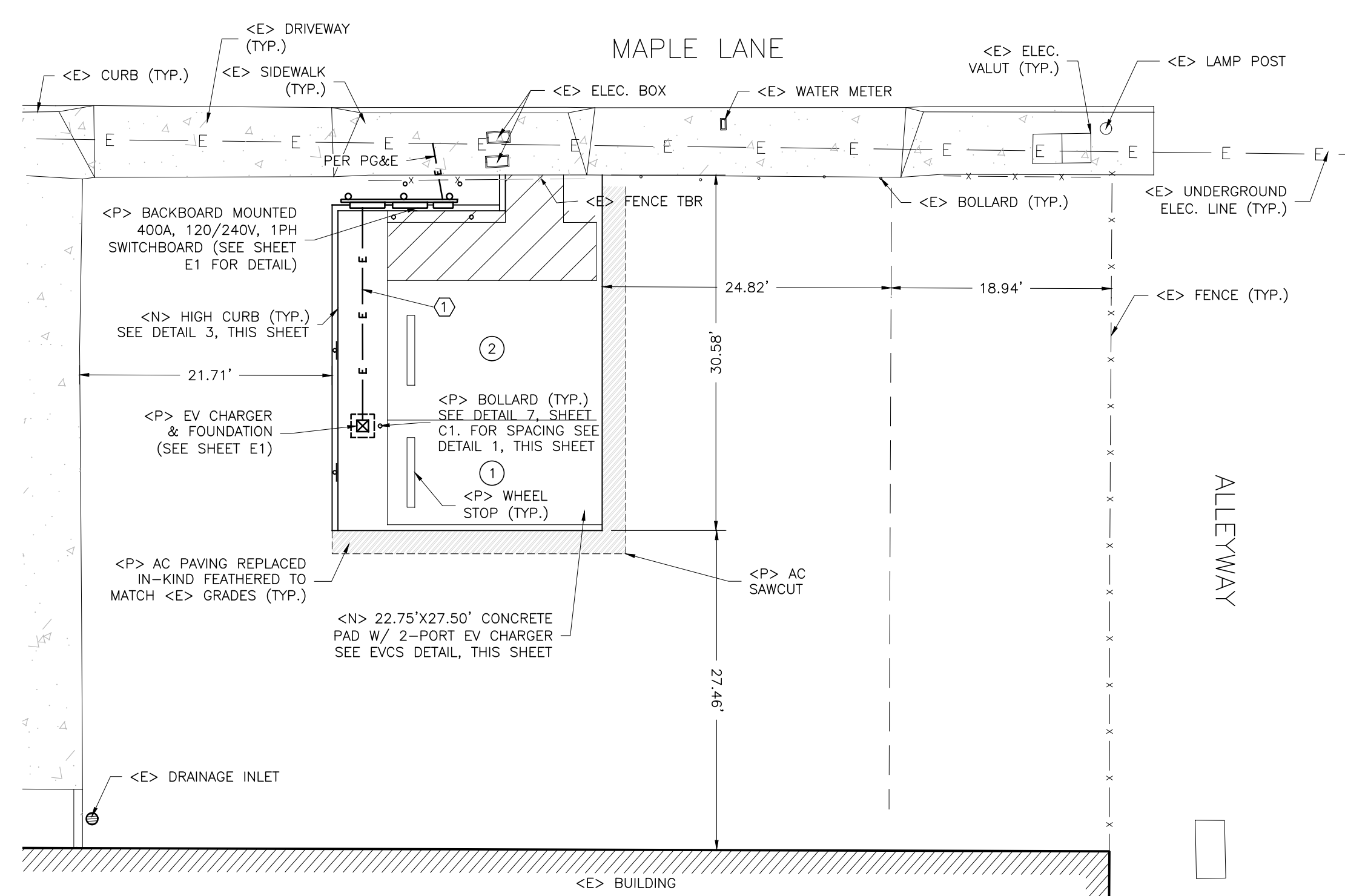
VICINITY MAP AND NOTES

For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date	MAR 12, 24
Scale	AS NOTED
Design	ZDU
Drawn	ALW
Job	REA 2301
Sheet	10.1

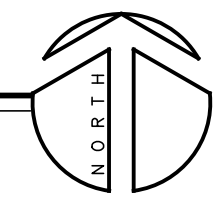
10.1

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SITE PLAN

SCALE: 1"=10'

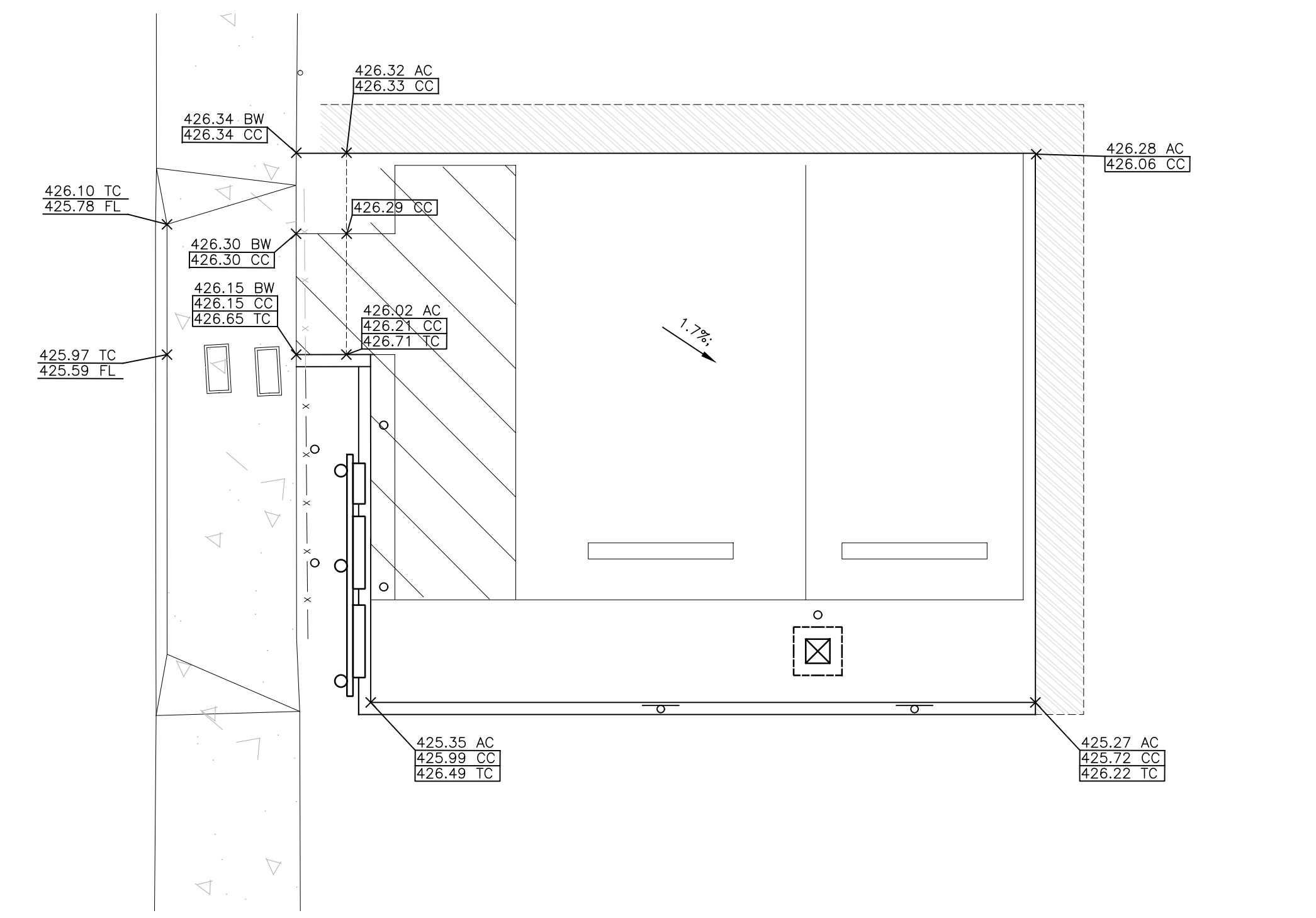


GRADING LEGEND

- 000.00 - EXISTING GRADE
- 000.00 - PROPOSED GRADE
- [Pattern] - EXISTING CONCRETE
- [Pattern] - PROPOSED AC PAVING
- [Line] - EXISTING CONCRETE TO REMAIN
- [Line] - EXISTING CONCRETE TO BE REMOVED
- [Line] - MAJOR CONTOUR
- [Line] - MINOR CONTOUR

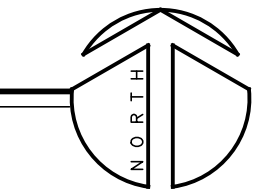
ABBREVIATIONS

- AC ASPHALT CONCRETE
- AGG. AGGREGATE
- CC CONCRETE
- CL CENTERLINE
- CONC. CONCRETE
- DI DRAINAGE INLET
- <E> EXISTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EP EDGE OF PAVEMENT
- FF FINISHED FLOOR
- FL FLOW LINE
- GD GROUND
- GM GAS METER
- GRD GROUND
- JP JOINT UTILITY POLE
- JB JUNCTION BOX
- MH MANHOLE
- MIN. MINIMUM
- <N> NEW
- <P> PROPOSED
- RD. ROAD
- R/W RIGHT OF WAY
- SD STORM DRAIN
- S.F. SQUARE FOOT
- SD STANDARD
- SWK SIDEWALK
- TBR TO BE REMOVED
- TB TOP OF BANK
- TC TOP OF CURB
- TYP. TYPICAL
- THK. THICK
- UTIL. UTILITY
- W WATER
- W/ WITH
- WM WATER METER
- WV WATER VALVE



GRADING PLAN

SCALE: 1"=5'



GRADING NOTES

- STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SURFACE FEATURES AND SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. WHITCHURCH ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
- BOUNDARY LINES, EASEMENTS, AND TOPOGRAPHIC DATA IS BASED ON WHITCHURCH ENGINEERING SURVEY DATED OCTOBER 11, 2023 AND EXISTING RIGHT OF WAY SURFACE FEATURES FOUND ON SITE. ACTUAL BOUNDARY LINES AND EASEMENTS ARE NOT REPRESENTED IN THIS DRAWING.
- TEMPORARY BENCHMARK NEAR THE SOUTHWEST END OF ELM STREET, IN THE ELM STREET PARKING LOT OF THE JEROLD PHELPS COMMUNITY HOSPITAL, P.K. NAIL & SHINER WITH AN ASSUMED ELEVATION OF 434.42'. VERTICAL DATUM IS ASSUMED.
- CONTOURS SHOWN AT 1' INTERVAL.
- DATUM IS NAD83

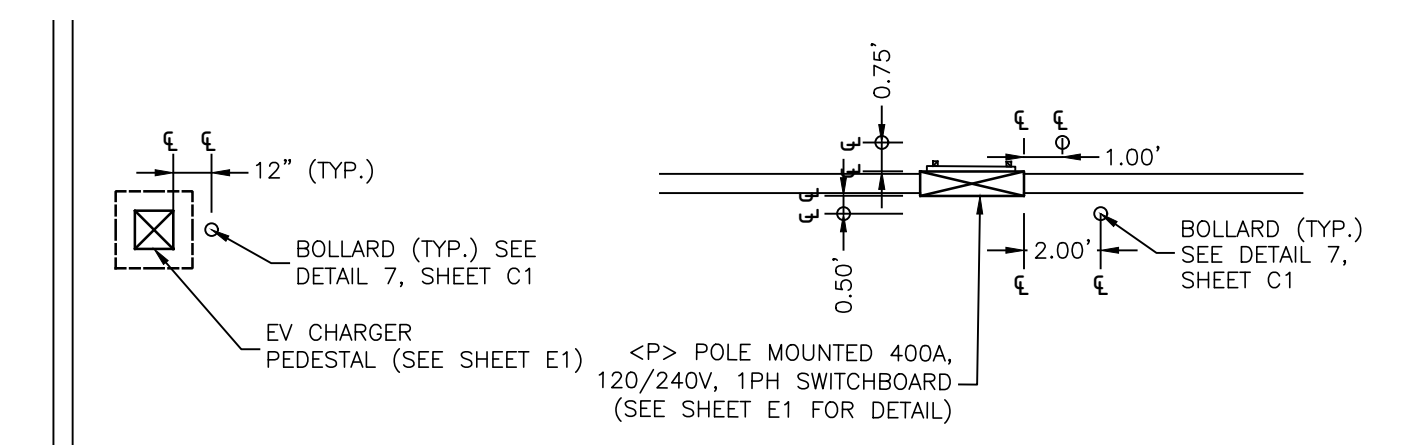
SITE PLAN NOTES

- SITE PLAN BASED ON TOPOGRAPHIC SURVEY BY WHITCHURCH ENGINEERING, DATED OCTOBER 11, 2023.
- NEW EV CHARGING STATIONS TO BE SINGLE STATION, DUAL PORT CHARGEPOINT CP6000 UNITS (OR APPROVED EQUIVALENT).
- ELECTRICAL LAYOUTS FROM TRANSFORMERS TO SWITCHBOARD AS PER ASSESSMENTS PROVIDED BY PG&E.
- CONTRACTOR SHALL SAWCUT AS NECESSARY FOR INSTALLATION.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO <E> SIDEWALKS/LANDSCAPE TO THE EXTENT POSSIBLE.
- ALL <E> SIDEWALKS SHALL REMAIN.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES IN PLACE.
- CONTRACTOR TO TAKE ADDITIONAL CARE OF EXISTING UTILITIES IN NO-PARKING ZONE ADJACENT TO NEW EVCS STALL.
- EVCS SIGNAGE IS OPTIONAL. SIGN LOCATION MAY CHANGE AT DISCRETION OF SITE HOST. SIGN MUST BE LOCATED OUTSIDE OF PARKING STALLS AND PATHS OF TRAVEL. SEE ADDITIONAL NOTES, DETAIL 9, SHEET C1.

RUN	DESCRIPTION	LENGTH	# OF RUNS (IN CONDUIT)	CONDUCTOR QTY & SIZE (PER RUN)	CONDUIT SIZE	GROUND SIZE (PER RUN)	RATING (SEE NOTES)
①	SWITCHBOARD TO EV (PER PORT)	25'	2	(2X) #3 AWG, CU	1 1/2"	#8 AWG, CU	100A/RUN (2 PER CHARGER)

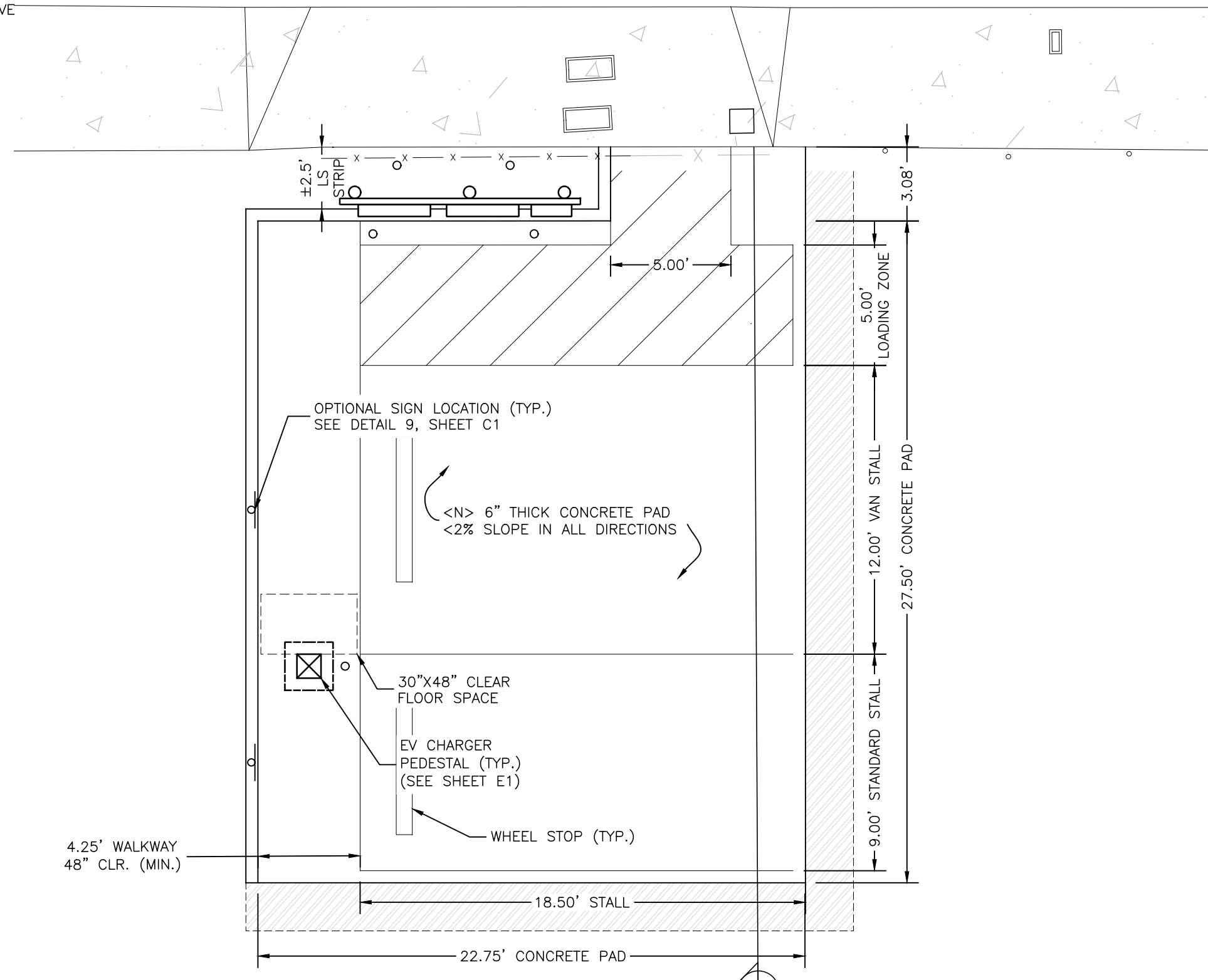
CONDUIT & CONDUCTOR SCHEDULE

- NOTE:
- ALL CONDUIT & CONDUCTOR RUNS SIZED FOR 19.2kV. (2) 80A CIRCUITS @ 240V. (2) 100A CIRCUIT BREAKERS REQUIRED PER CHARGEPOINT SPECIFICATIONS
 - EACH EV CHARGER TO BE SUPPLIED WITH (2) RUNSW. (1) FOR EACH CHARGING PORT.



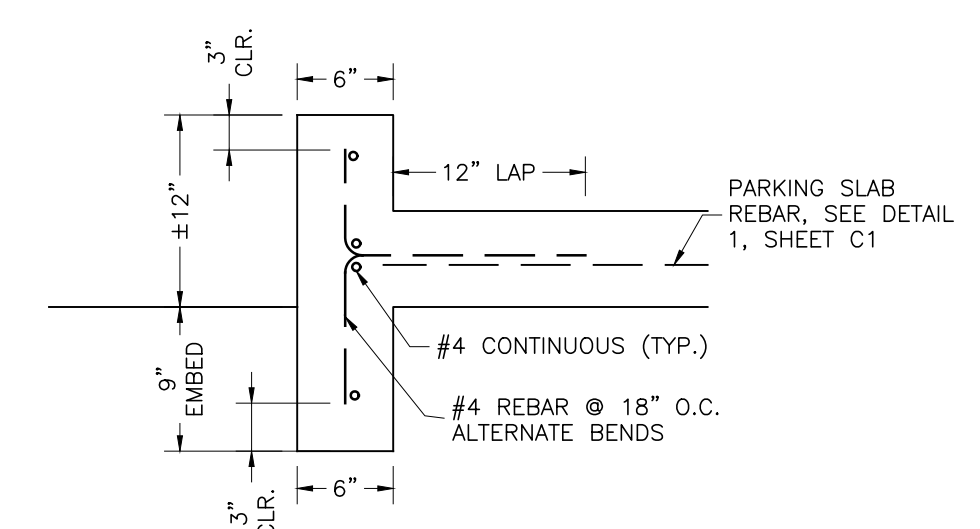
1 BOLLARD SPACING DETAIL

SCALE: 1"=5'



2 EVCS DETAIL

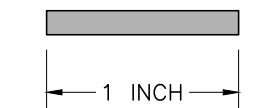
SCALE: 1"=5'



3 HIGH CURB DETAIL

SCALE: 1"=1'

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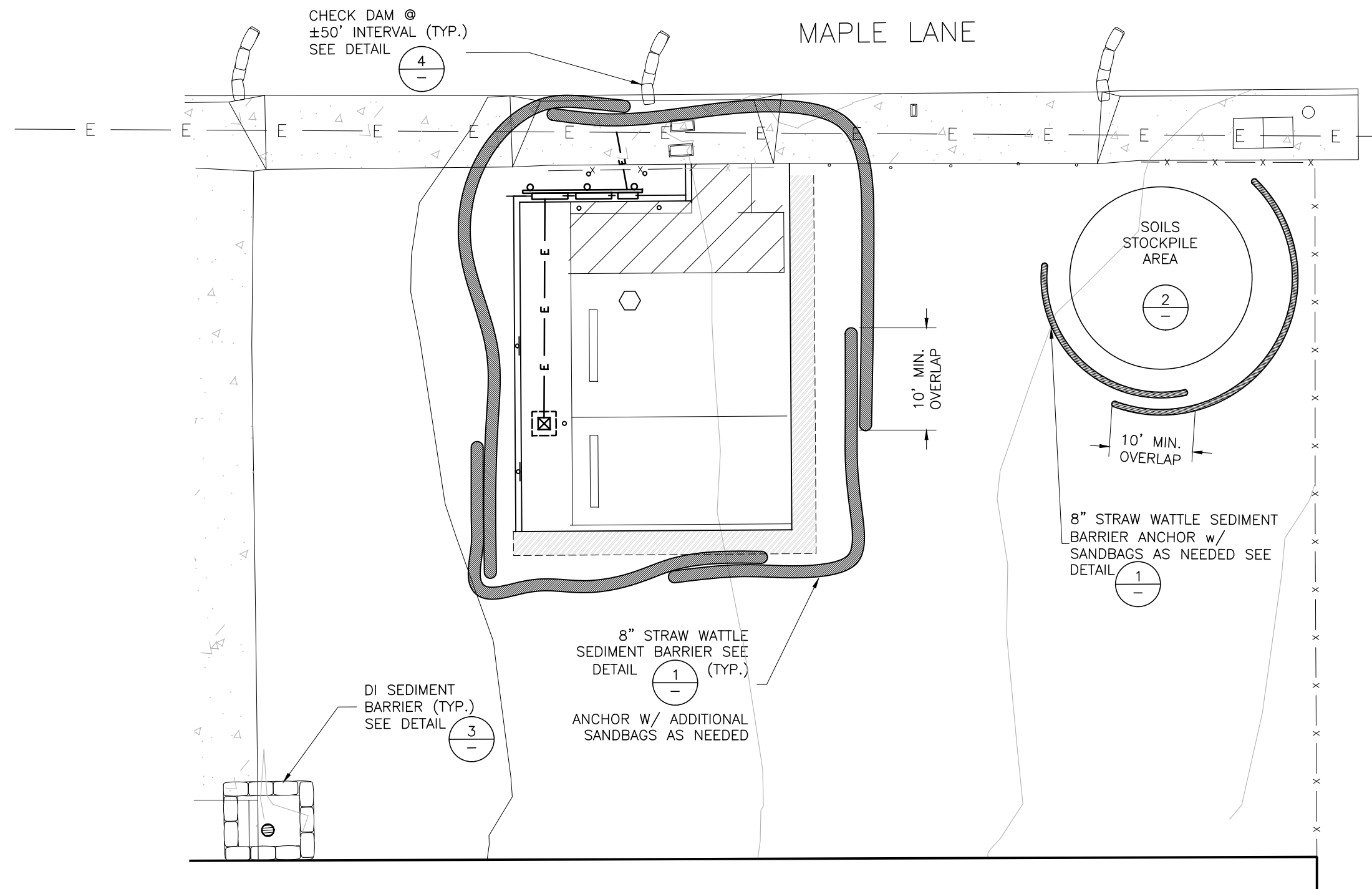
PLAN CHECK ONLY
NOT FOR CONSTRUCTION

WHITCHURCH ENGINEERING, INC.
610 9th Street Fortuna, California 95540
Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATIONS
- JEROLD PHELPS HOSPITAL
412 MAPLE LANE, GARBERVILLE, CA 95542
APN: 032-051-009
For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
SITE & GRADING PLAN
3/17/2023

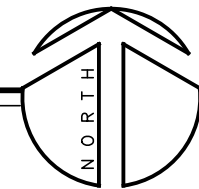
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Design	ZDU
Drawn	ALW
Job	REA 2301
Sheet	10.2

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EROSION CONTROL PLAN

SCALE: 1"=10'



EROSION CONTROL NOTES

- A. GENERAL**
- THIS PLAN WAS PREPARED BY A QUALIFIED ENGINEER FROM WHITCHURCH ENGINEERING, INC WHO HAS TRAINING AND EXPERIENCE TO HAVE EXPERT KNOWLEDGE OF EROSION AND SEDIMENT CONTROL METHODS.
 - THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK.
 - THE IMPLEMENTATION OF BMP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SILT FENCE WILL BE INSTALLED PARALLEL TO CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTOR.
 - A REPRESENTATIVE FROM WHITCHURCH ENGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN EVENT. A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO THE JOB FILE. THE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER AS NECESSARY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - THIS PROJECT MAY COMMENCE DURING THE WINTER MONTHS (OCTOBER 15-APRIL 15) THEREFORE EFFORTS WILL BE MADE TO MINIMIZE LAND DISTURBANCES.
- B. WATER COURSES**
- EXISTING AND PROPOSED DRAINAGE PATTERNS, CHANNELS AND FACILITIES ARE SHOWN ON ATTACHED PLAN.
 - CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SURFACE WATER FLOW IS BY SHEET FLOW. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA.
 - TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF MULCHING WITH PROTECTIVE COVERINGS. APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION.
 - TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S. PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE.
 - EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES.
 - A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT.
 - ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
- C. DISPOSAL OF EXCAVATED MATERIALS**
- EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED IN LANDSCAPING ON-SITE.
- D. DUST CONTROL**
- EXCESSIVE DUST SHALL BE CONTROLLED AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION. THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE NUISANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFIRM DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES, OR CHARGES RESULTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS.
- E. REMOVAL OF VEGETATION AND REVEGETATION**
- VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION.
- F. FINAL REPORTS AND NOTIFICATION OF COMPLETION**
- UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK AND AT THE FINAL COMPLETION OF THE WORK, A SET OF REPORTS, DRAWINGS AND SUPPLEMENTS THERETO ARE REQUIRED FOR ENGINEERED GRADING, OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING, AS APPLICABLE.
 - THE BUILDING OFFICIAL SHALL BE NOTIFIED WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION AFTER ALL WORK AND ALL EROSION-CONTROL MEASURES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.

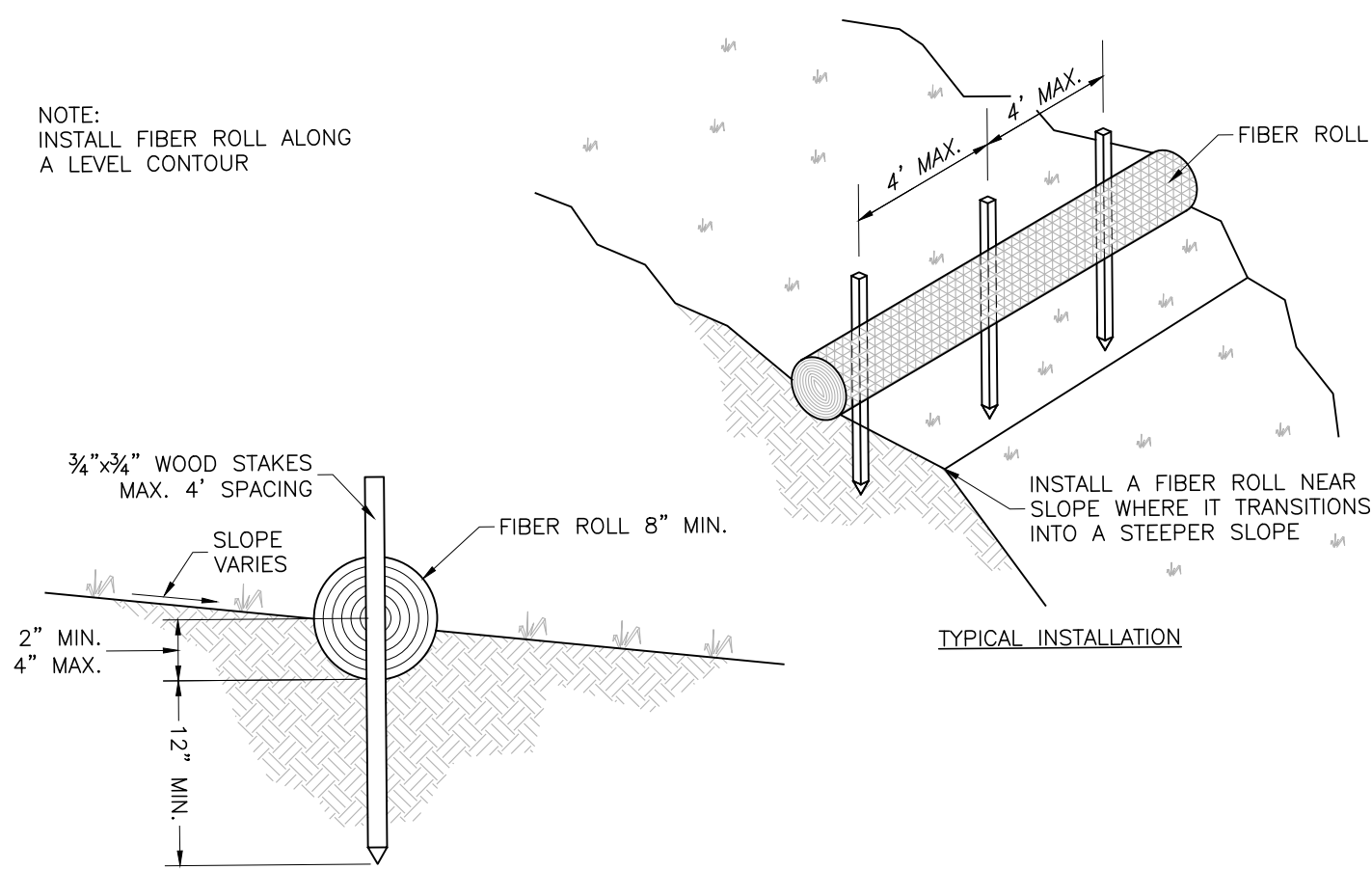
POST CONSTRUCTION BMP'S

- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES.
- ALL EROSION CONTROL AND/OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM SITE, INCLUDING SILT FENCES, DI PROTECTION, AND CHECK DAMS UPON APPROVAL OF THE ENGINEER.

GENERAL NOTE

NOTE: ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES TO BE APPROVED BY ENGINEER OF RECORD.

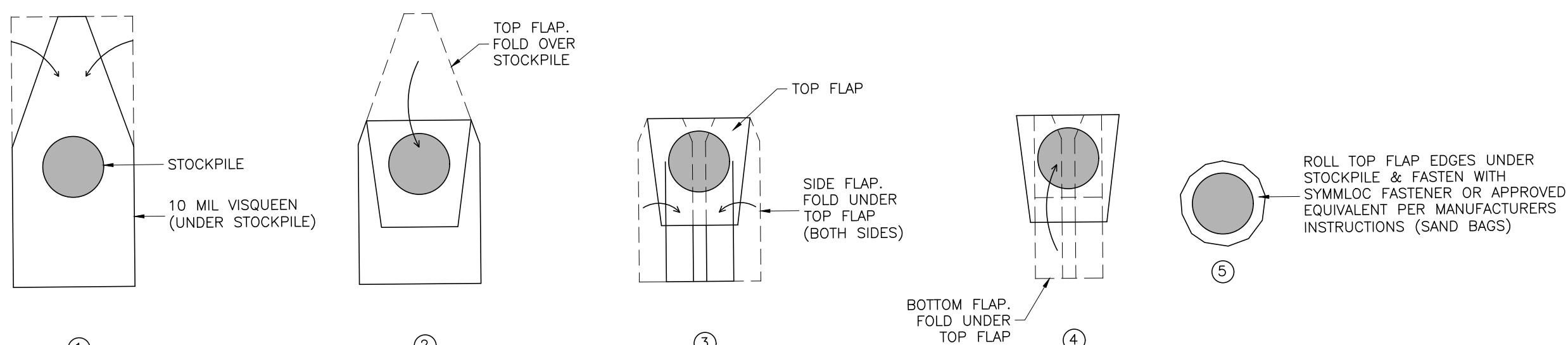
NOTE:
INSTALL FIBER ROLL ALONG
A LEVEL CONTOUR



ENTRENCHMENT DETAIL

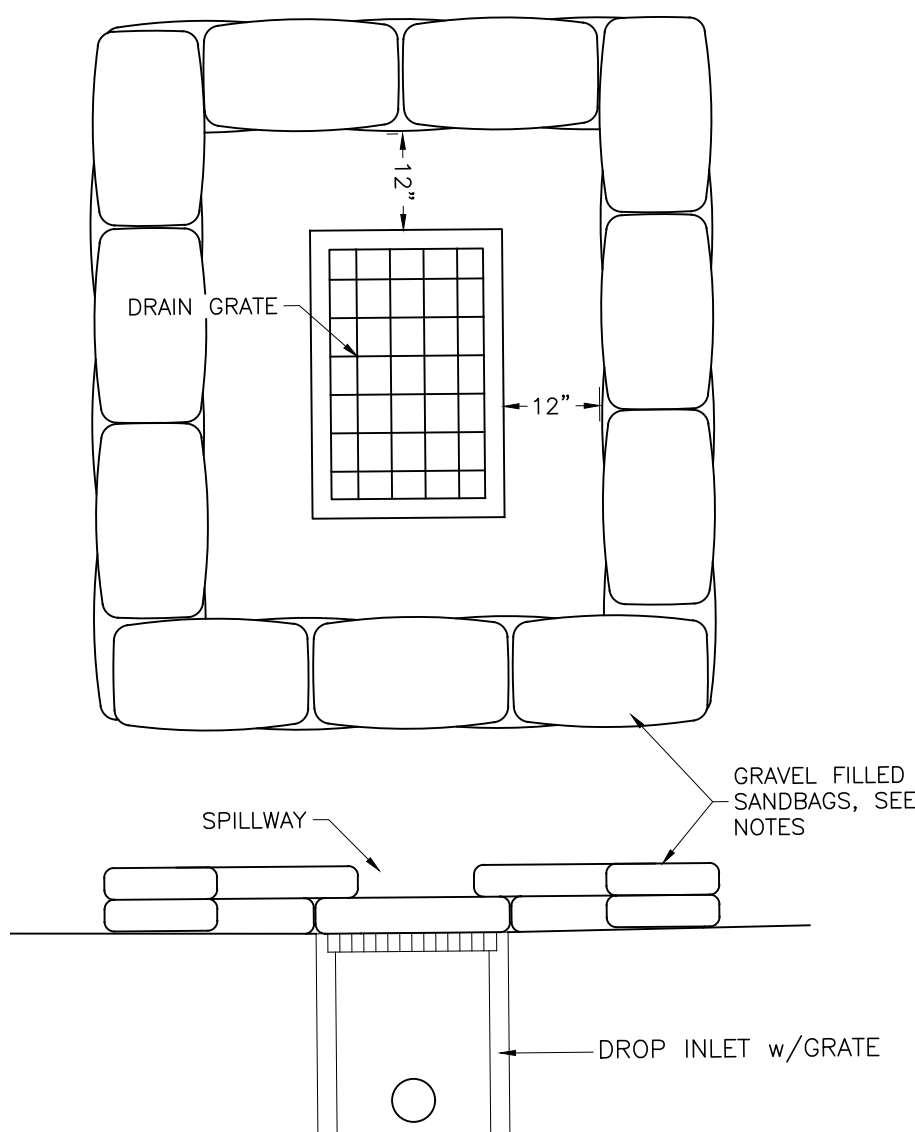
1 STRAW WATTLE/FIBER ROLL DETAIL

NO SCALE



2 BURRITO WRAP STOCK PILE CONTAINMENT

NO SCALE



3 DI PROTECTION DETAIL

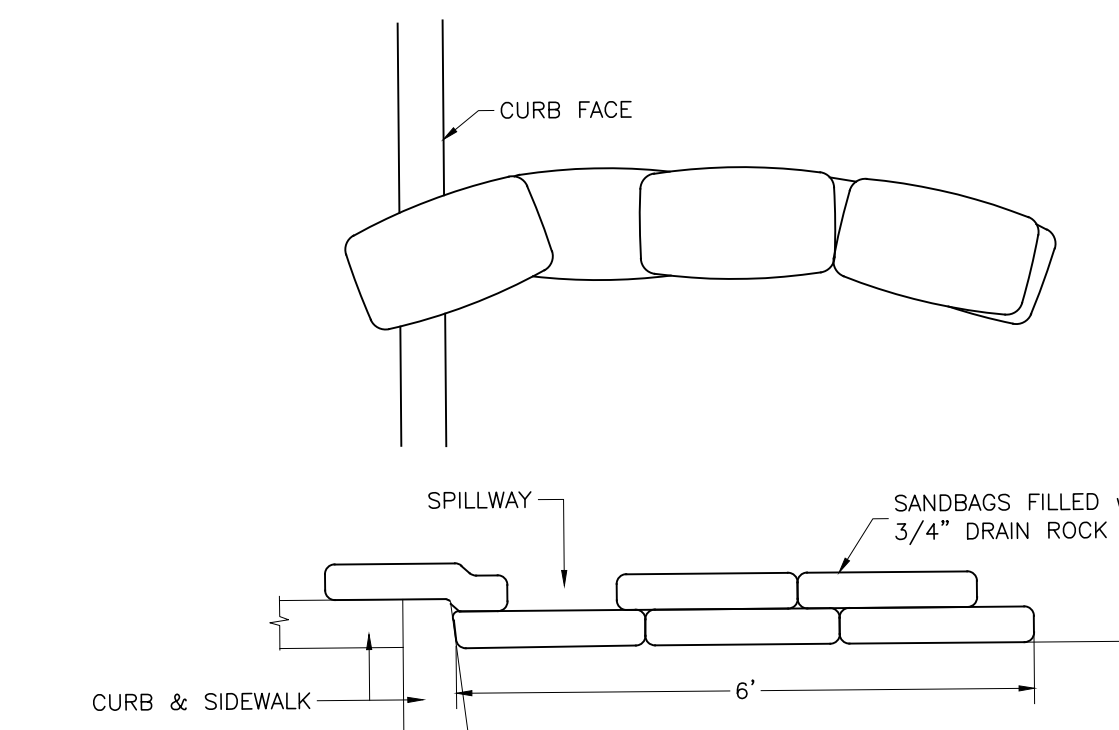
NO SCALE

NOTES:

- CONSTRUCT AROUND DRAINAGE INLETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (6").
- SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.
- POST ROAD PAVING, FULL DI PROTECTION CAN BE REPLACED WITH CHECK DAMS IN THE GUTTER.

NOTES:

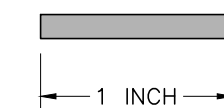
- CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
- PLACE SEVERAL LAYERS OF SANDBAGS OVER THE FIRST, OVERLAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS.
- LEAVE GAP OF ONE SACK IN THE MIDDLE OF THE TOP ROW OF SACKS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN THE CURB HEIGHT AND SUFFICIENT SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- INSPECT AND REPAIR BARRIER AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN IT REACHES TOP OF SPILLWAY (CURB HEIGHT).
- SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER PROTECTIVE MEASURE AND WILL NOT ENTER STORM DRAIN.
- SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
- SANDBAG SACKS TO BE FILLED WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.



4 CHECK DAM DETAIL

NO SCALE

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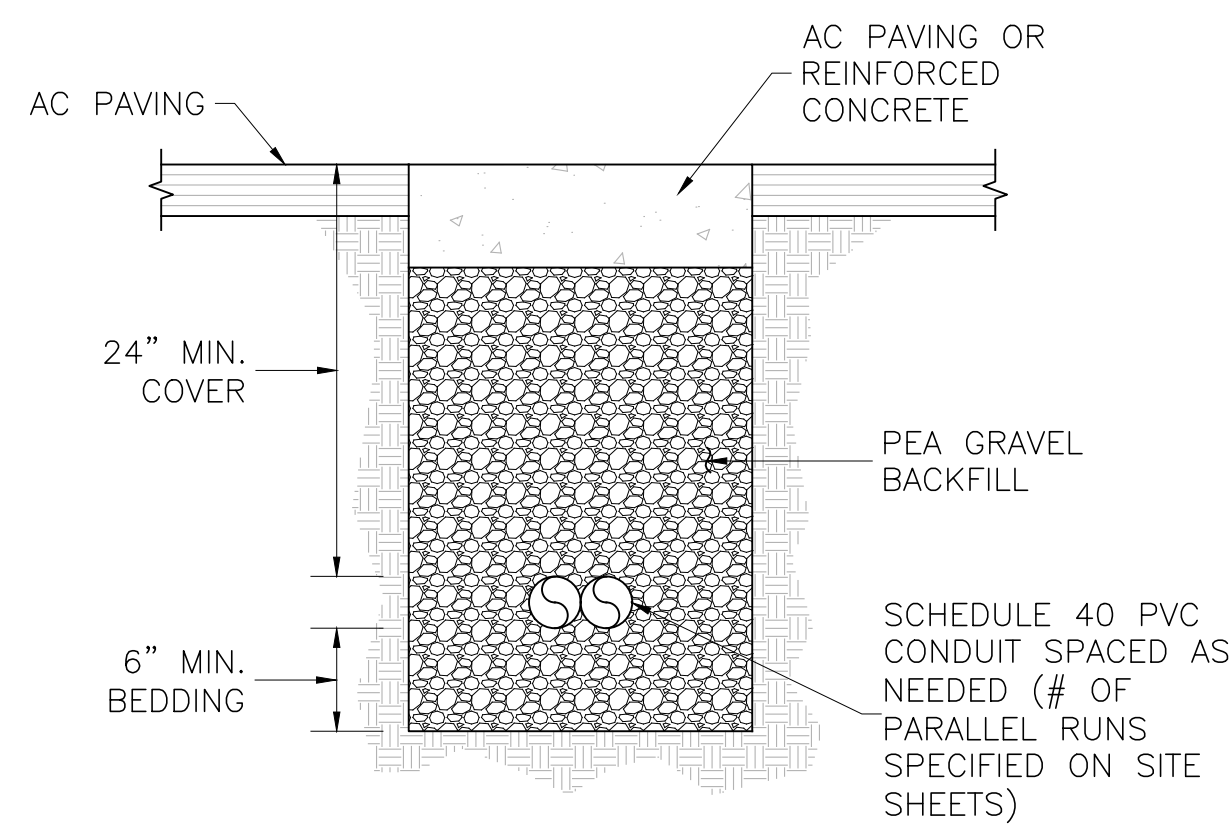
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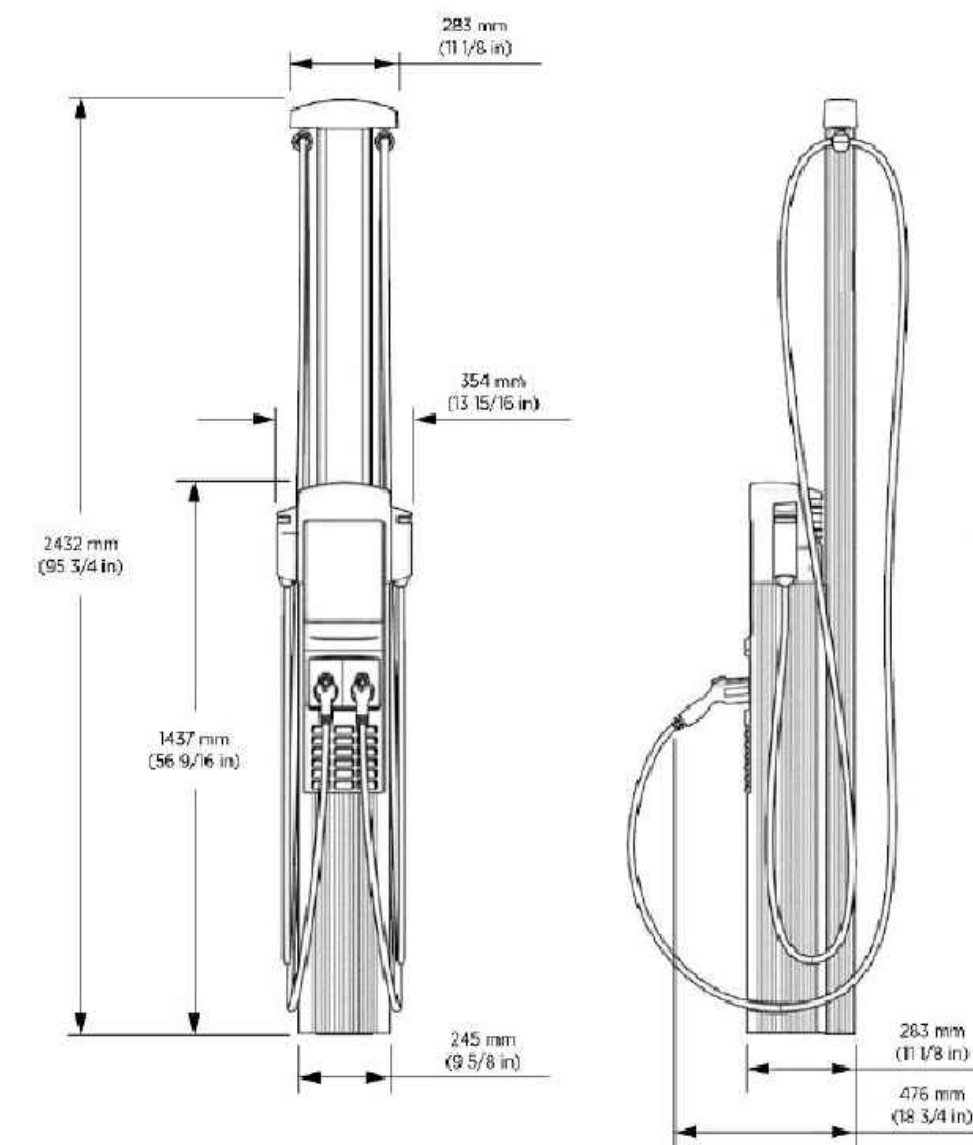
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APN: 032-051-009
EROSION CONTROL PLAN
For: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501
3/17/2022

Date	MAR 12, 24
Scale	AS NOTED
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Sheet	10.3

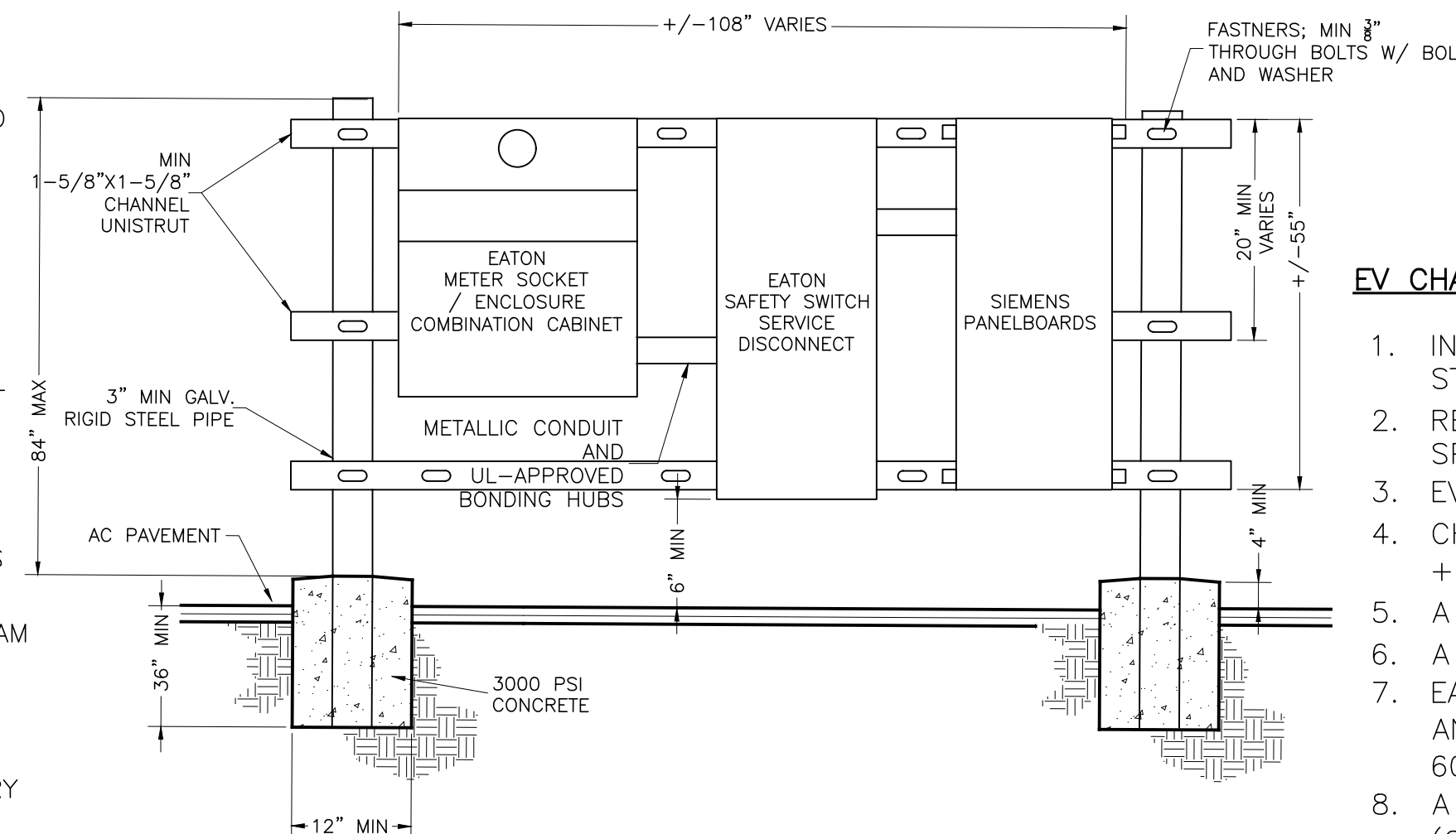


1 ELECTRICAL TRENCH DETAIL
NO SCALE



2 EV CHARGING STATION w/ 23' CORD DETAIL
NO SCALE

NOTE: PROVIDED BY CHARGEPOINT 6000 COMMERCIAL DATASHEET



3 BACKBOARD MOUNTED SWITCHBOARD DETAIL
NO SCALE

GENERAL ELECTRICAL NOTES:

1. ALL WORK TO CONFORM TO CALIFORNIA ELECTRIC AND CALIFORNIA ENERGY CODE, LATEST EDITIONS, AND APPLICABLE LOCAL CODES. ANY DEVIATION FROM APPROVED ELECTRICAL PLANS WILL REQUIRE APPROVAL FROM THE ELECTRICAL DESIGNER OF RECORD, PER CALIFORNIA BUSINESS AND PROFESSION CODE.
2. PROVIDE ALL PARTS AND LABOR FOR A COMPLETE AND WORKING FACILITY IN ACCORDANCE WITH THE INTENT OF THESE DRAWINGS. COORDINATE ELECTRICAL WORK WITH OTHER TRADES, CONFIRM THE WORK SCOPE WITH GENERAL CONTRACTOR, CONTRACTOR TO ARRANGE FOR AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK. PROVIDE OWNER WITH FINAL APPROVAL AND AS-BUILT DOCUMENTS AS PART OF THE CONTRACT CLOSEOUT
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EXACT LOCATIONS OF EQUIPMENT. CONTRACTOR SHALL VERIFY EXACT DIMENSIONS OF PROPOSED EQUIPMENT AND ITS FIT IN THE INTENDED SPACE. CHECK ALL SYMBOLS AND UNDERSTAND WHAT THEY MEAN ON THESE PLANS.
4. PANEL AND EQUIPMENT FEEDERS: INDIVIDUAL CONDUCTORS IN CONDUIT PER FEEDER SCHEDULE.
5. ALL WIRING DEVICES TO BE COMMERCIAL SPECIFICATION GRADE.
6. ALL CONDUCTOR RUNS TO HAVE GROUND WIRE RATED FOR THE CURRENT CARRYING CONDUCTORS PER N.E.C. 250.66 AND 250.122.
7. PROVIDE ELEC. PANELS WITH TYPED CIRCUIT DIRECTORIES.
8. MAIN PANEL GROUND BUS WILL BE BONDED TO NEUTRAL BUS WITH #2/0 AWG CU OR EQUIVALENT BUS BAR NEC TABLE 250.102.C.1.
9. 240V PANELS WILL BE GROUNDED TO DEDICATED 8" X 8' GROUNDING ELECTRODES USING A GROUNDING CONDUCTOR WHICH SIZE IS LISTED ON RESPECTIVE GROUNDING DIAGRAM.
10. 240V PANELS WILL BE BONDED BETWEEN GROUND BUS AND NEUTRAL BUS WITH CU WIRE OR BUS BAR WITH KCMIL NOT LESS THAN THE GROUND WIRE SIZE STATED ON PANEL SCHEDULE.
11. TRANSFORMERS ARE TO BE GROUNDED TO MAIN PANEL GROUND BUS ONLY. SEE ONE-LINE DIAGRAM FOR GROUND WIRE SIZE.
12. ALL GROUND WIRES ARE TO BE PROTECTED IN FLEXIBLE METAL CONDUIT.
13. TRANSFORMERS ARE TO HAVE PRIMARY OVERCURRENT PROTECTIVE DEVICE (OCPD) VIA BREAKERS 125% OF TRANSFORMER NAMEPLATE (OR NEXT SIZE UP) LOCATED IN HIGH VOLTAGE PANELS. SECONDARY OCPD IS NOT REQUIRED PER NEC 240.21.C.2.
14. MAIN SWITCHBOARD SHALL BE LEGIBLY FIELD MARKED WITH MAX AVAILABLE FAULT CIRCUIT AND THE DATE THESE PLANS WERE SIGNED BY THE RESPONSIBLE ENGINEER PER CEC 110.24(A).
15. ARC FLASH HAZARD WARNING LABEL SHALL BE PLACED ON SWITCHBOARD I.A.W. CEC 110.16.
16. MAIN SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED.
17. CONTRACTOR IS TO PROVIDE AS BUILT MARKUPS TO THE OWNER AND RESPONSIBLE ENGINEER REFLECTING ANY DEVIATIONS FROM THE ORIGINAL DESIGN PLANS OR SPECIFIC DETAIL OF NOTE THAT COULD BE USEFUL INFORMATION FOR FUTURE MODIFICATIONS OR TROUBLESHOOTING. AS BUILT MARKUPS ARE TO REFLECT THE COMPLETELY INSTALLED, OPERATIONAL SYSTEM AFTER TESTING AND INSPECTION.
18. CONTRACTOR SHALL CHOOSE A GROUND ROD LOCATION AT EACH SITE IN ORDER TO MINIMIZE TRIPPING HAZARDS. CONTRACTOR SHALL VERIFY LOCATION OF ANY UNDERGROUND PIPING OR OTHER UTILITIES BEFORE INSTALLATION. GROUND ROD SHALL COMPLY WITH CEC 250, THE PG&E GREENBOOK STANDARDS, AND LOCAL CODES.
19. WIRE TYPE TO BE THWN MINIMUM, OR SIMILARLY RATED WET RATED CONDUCTOR TYPE.

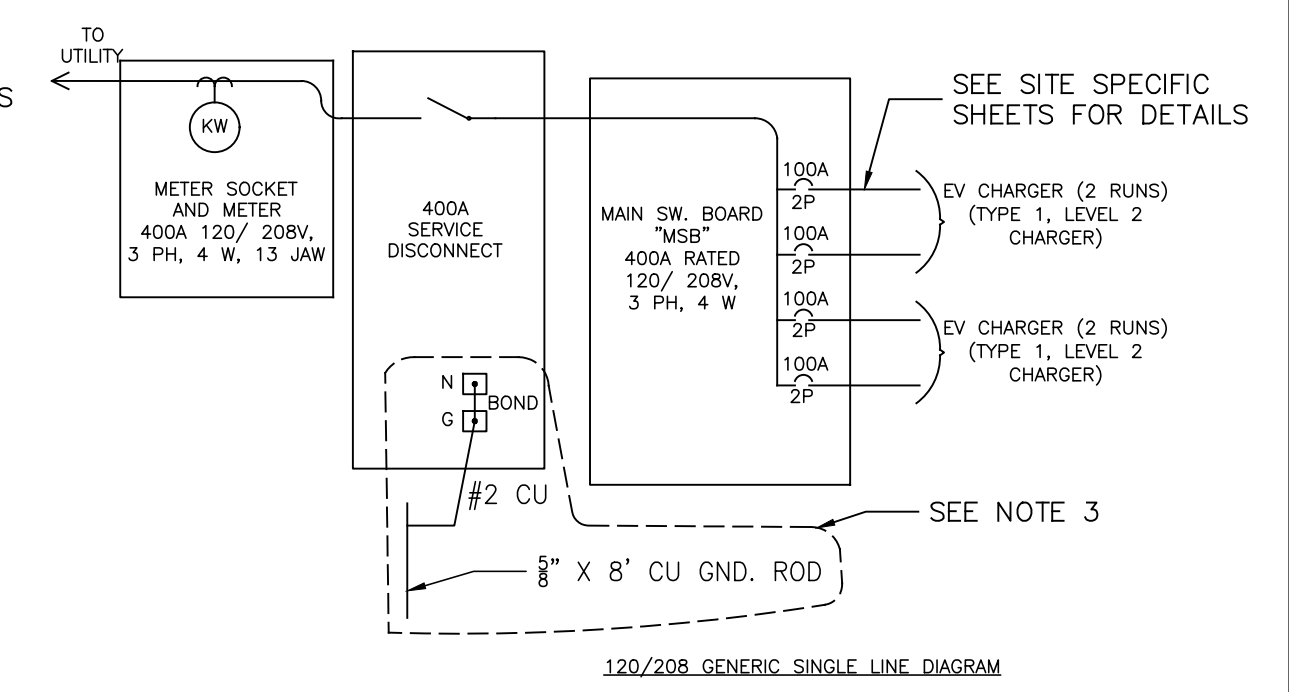
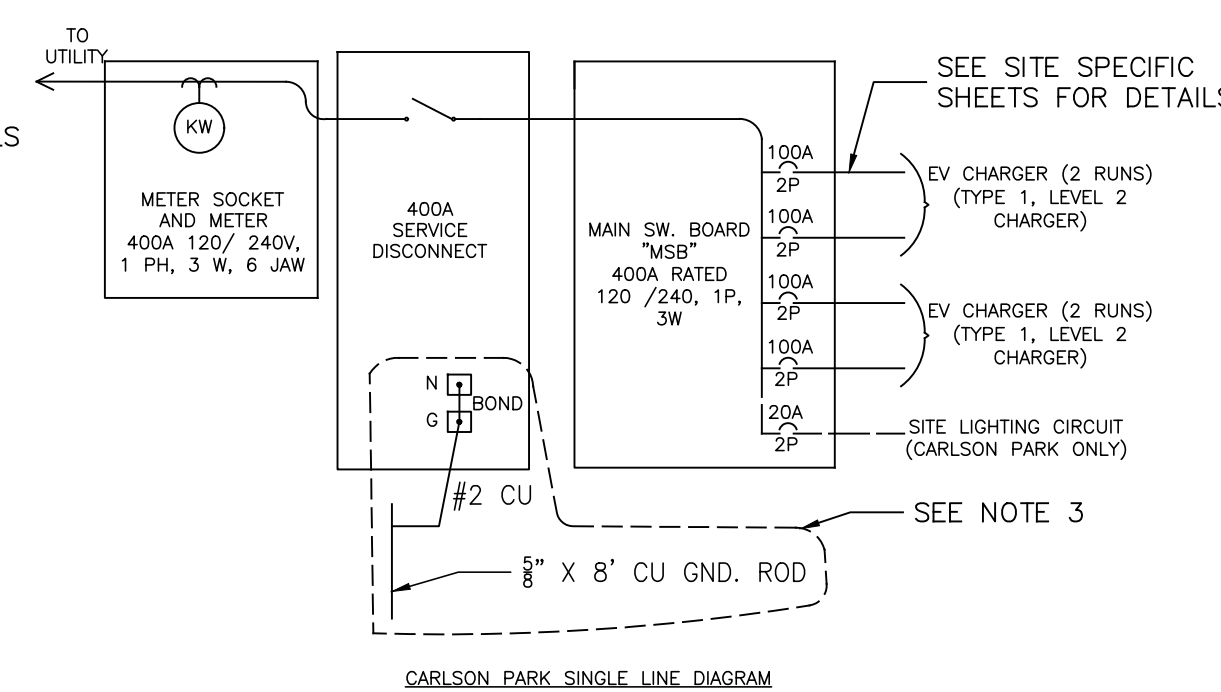
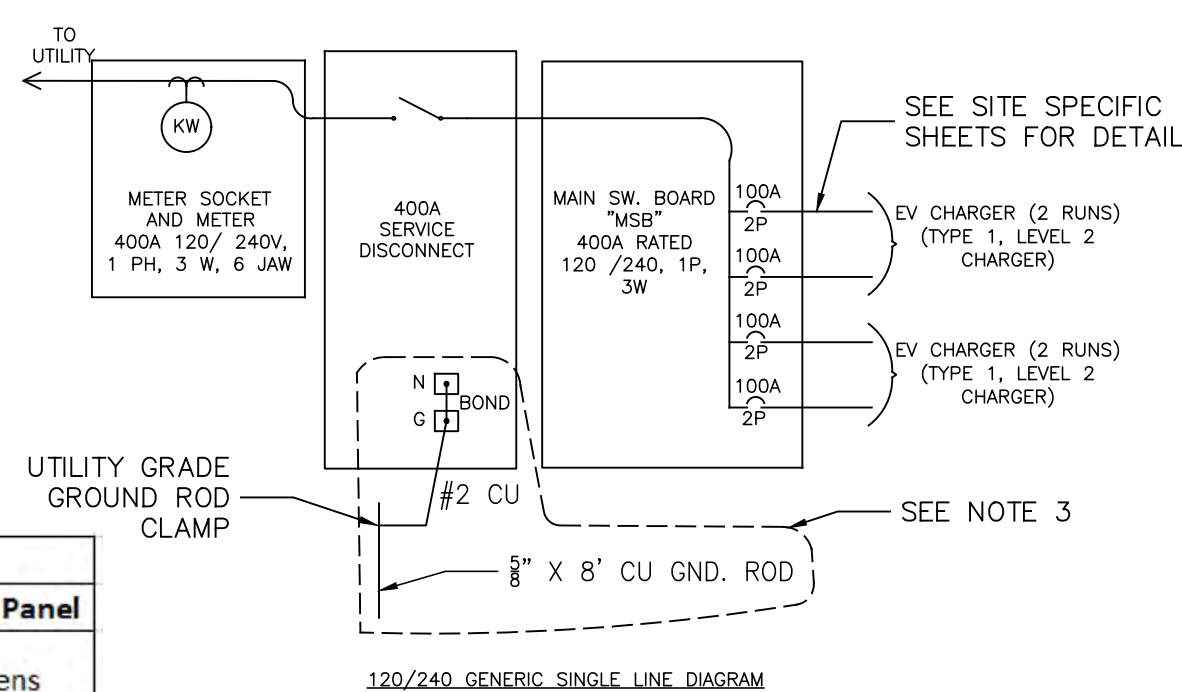
EV Charging Station Load Calcs		
2 Port		
Service Voltage	240	V
Input Voltage	208/240	V
Input Current	160	A
Breaker Size	100 x 2	A

TWO PORT LOAD CALCULATIONS

NOTE: LOADS BASED ON DEMAND FROM 19.2 kW RATED CHARGER (CHARGEPOINT CP6000 OR EQUIVALENT).

Equipment Specifications				
Amperage	Service	Meter Cabinet	Disconnect Switch	Service Panel
400A	120/240 1ph (Site specific)	Eaton Meter Socket / Enclosure Cabinet (Eaton # 121816) with Eaton 6019HA CT Mounting Base	Eaton Safety Switch DH265URK	Siemens Panelboard P1A18ML400A TS
400A	120/208 3ph (Site specific)	Eaton Meter Socket / Enclosure Cabinet (Eaton #122013) with Eaton 6067HA CT Mounting Base	Eaton Safety Switch DH365URK	Siemens Panelboard P1C18ML400A TS

Or approved equivalent



SINGLE LINE DIAGRAMS

NO SCALE

NOTE:

- 1) SEE CIVIL SHEETS FOR CONDUCTOR AND CONDUIT SCHEDULE.
- 2) EV CHARGING STATIONS TO BE TYPE 1, LEVEL 2 CHARGERS. CHARGEPOINT MODEL CP6000 (OR APPROVED EQUIVALENT).
- 3) GROUNDING BONDING OF CT ENCLOSURE, MAIN DISCONNECT, AND SERVICE PANEL TO BE IN ACCORDANCE WITH PGE GREENBOOK SECTION 5.8.

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MSB - Site IDs, 1-Orleans, 2-Azalea Hall, 5-Sequoia Park, 7-Rohner Park, 8-Redwood Memorial, 10-Jerod Phelps Hospital									
ENCLOSURE: NEMA 3R WALL MOUNT									
22 KAIC	VOLTS:120/240V			PHASE: 1	WIRE: 3	MAIN: 400A			
CKT	LOAD DESCRIPTION	A	B	AMPS	BREAKER	A	B	LOAD DESCRIPTION	CKT
1	EV CHARGER 1 - PORT 1	9.6		100	100	9.6		EV CHARGER 2 - PORT 1	2
3	"		9.6	100	100		9.6	"	4
5	EV CHARGER 1 - PORT 2	9.6		100	100	9.6		EV CHARGER 2 - PORT 2	6
7	"		9.6	100	100		9.6	"	8
SUBTOTAL KW		19	19			19	19	SUBTOTAL AMPS	
TOTAL KW		38	38	120/240V, 1PH PANEL SCHEDULE (SEE STD. SINGLE LINE DIAGRAM)					
TOTAL AMPS		160	160						

MSB - Site ID 4-Carlson Park									
ENCLOSURE: NEMA 3R WALL MOUNT									
22 KAIC	LTS:120/240V			PHASE: 1	WIRE: 3	MAIN: 400A			
CKT	LOAD DESCRIPTION	A	B	AMPS	BREAKER	A	B	LOAD DESCRIPTION	CKT
1	EV CHARGER 1 - PORT 1	9.6		100	100	9.60		EV CHARGER 2 - PORT 1	2
3	"		9.6	100	100		9.60	"	4
5	EV CHARGER 1 - PORT 2	9.6		100	100	9.60		EV CHARGER 2 - PORT 2	6
7	"		9.6	100	100		9.60	"	8
9	SPACE					20	0.12	SITE LIGHTING	10
11	SPACE							"	12
SUBTOTAL KW		19	19			19	19	SUBTOTAL AMPS	
TOTAL KW		39	38	120/240V, 1PH PANEL SCHEDULE (SEE CARLSON PARK SINGLE LINE DIAGRAM)					
TOTAL AMPS		161	160						

MSB - Site IDs: 3-Mad River Hospital, 9-Redwoods Rural Health										
Enclosure: NEMA 3R wall mount										
BUS Rating: 400 A			Main: 400 A			Volts: 120/208 wye		Phase: 3	Wire: 4	
CKT	Load Description	A	B	C	BREAKER	A	B	C	Load Description	
1	EV CHARGER 1 - PORT 1	9.6			100	100	9.6		EV CHARGER 2 - PORT 1	
3	"		9.6		100		9.6		"	
5	EV CHARGER 1 - PORT 2			9.6	100			9.6	EV CHARGER 2 - PORT 2	
7	"	9.6			100		9.6		"	
subtotal		19.2	9.6	9.6			19.2	9.6	9.6	
total		38.4	19.2	19.2	120/208V, 3PH PANEL SCHEDULE (SEE STD. SINGLE LINE DIAGRAM)					
TOTAL AMPS		184.6	92.3	92.3						

PANEL SCHEDULES

EV CHARGING STATION CONSTRUCTION NOTES:

1. INSTALL CHARGING STATIONS PER MANUFACTURER RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, CEC 2022, AND ALL STATE AND LOCAL BUILDING CODES.
2. RECOMMEND CHARGEPOINT CHARGING STATIONS (OR APPROVED EQUIVALENT). SEE SITE SPECIFIC CIVIL SHEETS FOR SPECIFIC CHARGING STATION MODELS.
3. EV CHARGERS ARE TO BE TYPE 1, LEVEL 2 CHARGERS.
4. CHARGERS SHALL BE INSTALLED WITH EITHER A RCD (RESIDUAL CURRENT DETECTION) 30mA TYPE B OR A RCD TYPE A + 6mA RDC-DD (IEC 60364-7-722).
5. A MAXIMUM OF ONE CHARGING STATION CAN BE INSTALLED DOWNSTREAM OF RCD TYPE A (IEC 60364-7-722).
6. A DEDICATED CIRCUIT SHALL BE USED FOR EACH CONNECTING POINT ON A CHARGER (IEC 60364-7-722).
7. EACH CHARGING STATION SUPPLIED BY AN UNDERGROUND ELECTRICAL LINE SHALL BE EQUIPPED WITH AN EARTHING ROD AND BE EQUIPPED WITH A TYPE 2 SURGE PROTECTIVE DEVICE, INSTALLED LOAD SIDE OF THE MAIN SERVICE (IEC 60364-7-722).
8. A MEANS OF DISCONNECT INSTALLED IN A READILY ACCESSIBLE LOCATION WITHIN EYESIGHT OF THE CHARGING STATIONS (CEC 625.43).
9. EV CHARGING CABLES MUST NOT EXCEED 25 FEET IN LENGTH AND HAVE NO MID-CORD COUPLINGS (CEC 625.17) AND BE INTERLOCKED TO DE-ENERGIZE WHEN UNPLUGGED FROM A VEHICLE OR SUBJECTED TO STRESS (CEC 625.18).
10. ALL CONDUCTORS AND CONDUIT HAVE BEEN SIZED TO ACCOMMODATE 19KW CHARGING STATIONS. CHARGING STATION EQUIPMENT TO BE SPECIFIED BY LOCATION.

REVISIONS BY

WHITCHURCH ENGINEERING, INC.
610 9th Street Fortuna, California 95540
Phone (707) 444-1420

RCEA ELECTRIC VEHICLE CHARGING STATION - ALL SITES
ELEC. DETAILS & ONE LINE DIAGRAMS
ADDRESS: VARIOUS APN: VARIOUS
FOR: REDWOOD COAST ENERGY AUTHORITY, 633 3RD ST., EUREKA, CA 95501

Date MAR 12, '24

Scale AS NOTED

Design JMM

Drawn JMM

Job REA 2301

Sheet

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