

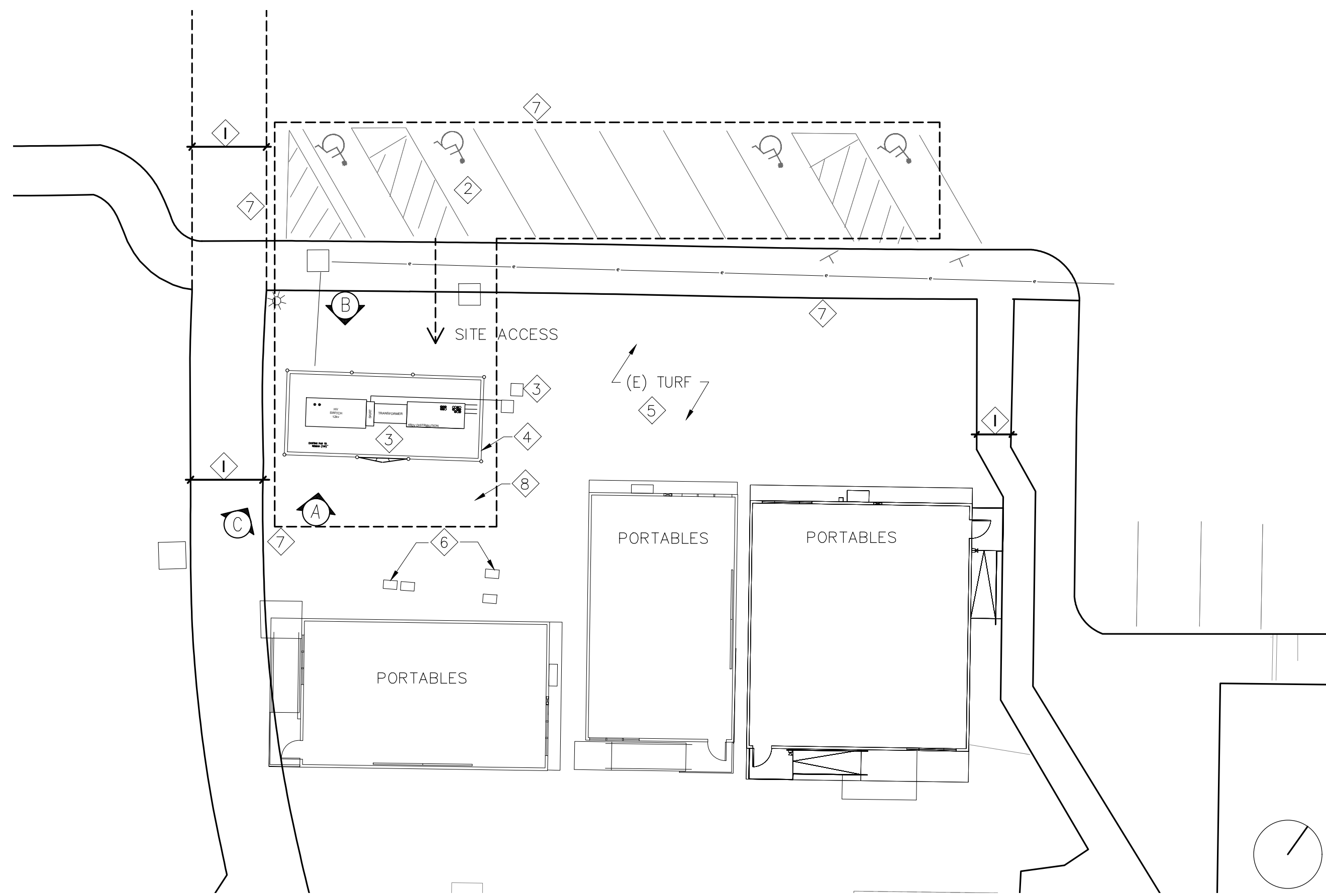
SUBSTATION REPLACEMENT PROJECT

SOLANO COMMUNITY COLLEGE DISTRICT
4000 SUISUN VALLEY ROAD, FAIRFIELD, CA 94534

PROJECT NO:
SUBMITTAL

OWNER:
SOLANO COMMUNITY COLLEGE DISTRICT
4000 Suisun Valley Road
Fairfield, CA 94534

GENERAL NOTES	LEGEND	PROJECT SCOPE	INDEX	PROJECT DIRECTORY
<p>1. FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ACTUAL FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY WORK. THIS SHALL INCLUDE UTILITY LOCATIONS, LOCATIONS OF FIXTURES, BASES AND ALL UTILITY RUNS AND PROPOSED WITH IN-FIELD CONDITIONS FOR CONFORMANCE TO DOCUMENTS.</p> <p>2. ELEVATIONS. ALL ELEVATIONS ARE TO/FROM TOP OF FINISH FLOOR, U.O.N.</p> <p>3. UNOBSTRUCTED ACCESS WITHIN SIDEWALKS AND ROADWAYS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE WORK OF THE PROJECT.</p> <p>4. ALL WORK PERFORMED UNDER THESE DOCUMENTS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS. ALL NEW WORK SHALL NOT DIMINISH ANY EXISTING CONDITIONS WITH RESPECT TO THEIR ADHERENCE TO APPLICABLE CODES AND REQUIREMENTS (TYP.). THE DISTRICT MAY ELECT TO HAVE INSPECTIONS AND SUPERVISION OF WORK BY A LICENSED INSPECTOR OF RECORD (IOR).</p> <p>5. THESE DOCUMENTS ARE TO REFLECT GENERAL INTENT OF THE ARCHITECTURAL SCOPE OF WORK. THE INFORMATION SHOWN IN THESE DOCUMENTS SHOW PURPOSE AND INTENT AND ARE NOT COMPLETE IN EVERY DETAIL. THE CONTRACTOR SHALL COMPLY WITH THEIR INTENT AND MEANING, TAKEN AS A WHOLE, AND SHALL NOT AVAIL ITSELF OF ANY MANIFEST ERROR, OMISSION, AND DISCREPANCY OF AMBIGUITY WHICH APPEAR IN THE DOCUMENTS.</p> <p>6. CONTRACTOR SHALL ENGAGE PRIVATE UTILITY LOCATOR TO VERIFY AND LOCATE ANY (E) UTILITIES WITHIN AREA OF SCOPE OF WORK PRIOR TO COMMENCEMENT OF DEMO WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY FOR ANY POTENTIAL CONFLICT WITH PROPOSED WORK FOR FIXTURE RELOCATION.</p>		<p>PROJECT SCOPE (SHEET 0.00) PROJECT SCOPE SHALL CONSIST OF MAINTENANCE WORK ASSOCIATED WITH THE REPLACEMENT IN-KIND OF EQUIPMENT AS SHOWN FOR SUBSTATION #1 AND #2. THE YARDS FOR EACH SUBSTATION SHALL BE PERMANENTLY FENCED WITH ACCESS RESTRICTED TO SCCD MAINTENANCE PERSONNEL ONLY AND SHALL BE CONSIDERED AS "NON-SCHOOL" USE PER CAC 4-310 AS NEITHER PUPILS OR TEACHERS SHALL HAVE ACCESS AND DOES NOT REQUIRE DSA STRUCTURAL AND FIRE AND LIFE SAFETY APPROVAL. THE WORK SHALL COMPLY WITH ALL CURRENTLY EFFECTIVE DESIGN, CONSTRUCTION AND INSPECTION PROVISIONS OF THE CCR, TITLE 24 AS ADOPTED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION.</p> <p>THERE WILL BE NO INCREASE TO THE ELECTRICAL LOAD AND THE WORK SHALL REPLACE AGING EQUIPMENT SOME WHICH MAY CONTAIN HAZARDOUS MATERIALS (SEE SCC 12KV/480V REPORT DATED 9/2009) WITH NEW, NON-HAZARDOUS EQUIPMENT. IT IS ANTICIPATED THAT THE EXISTING CONCRETE PADS, ONCE CLEARED OF THE EXISTING EQUIPMENT, SHALL ADEQUATELY SUPPORT THE NEW EQUIPMENT AND THERE WILL BE NO REQUIREMENT TO INCREASE THE SIZE OF THE EXISTING PAD TO SUPPORT THE NEW EQUIPMENT. THERE WILL BE LEVEL PAVING EXTENSION TO PROVIDE CLEARANCE FOR SUBSTATION #1. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATION AND WORK WITH ALL NECESSARY AGENCIES AND FOR THE SHUT DOWN, TEMPORARY POWER, THE REMOVAL OF EXISTING EQUIPMENT, THE INSTALLATION OF NEW EQUIPMENT AND RE-ENERGIZING THE NEW EQUIPMENT.</p> <p>ACCESS COMPLIANCE PER CBC 2013 11B-203.5 ACCESS COMPLIANCE SHALL NOT REQUIRED.</p>	<p>GENERAL DRAWINGS 0.00 COVER SHEET INDEX</p> <p>A1.00 PARTIAL SITE PLAN/SITE PHOTOS A8.00 PARTIAL PLANS/DETAILS</p> <p>DRAWINGS ES101 GENERAL NOTES ES102 SINGLELINE ES103 SUBSTATION #1 EXISTING ES103.1 SUBSTATION #1 NEW ES104 SUBSTATION #2 EXISTING ES104.1 SUBSTATION #2 NEW ES105 PANEL SCHEDULE & LOAD CALCULATION</p> <p>PROJECT SHALL NOT BE COMPLETED WITHOUT PROJECT SPECIFICATIONS.</p>	<p>DISTRICT NAME SOLANO COMMUNITY COLLEGE DISTRICT ADDRESS 4000 SUISUN VALLEY ROAD ADDRESS FAIRFIELD, CA 94534 PHONE 707-864-7112 PHONE 707-864-7197</p> <p>CM NAME KITCHELL CEM - DON HAASE ADDRESS 360 CAMPUS LANE, SUITE 203 ADDRESS FAIRFIELD, CA 94534 PHONE 916-870-2677 PHONE 707-864-7189 E-MAIL dhaase@kitchellcem.com</p> <p>ARCHITECT NAME CA ARCHITECT ADDRESS 475 GATE 5 ROAD, SUITE 107 ADDRESS SAUSALITO, CA 94965 PHONE 415-331-7655 E-MAIL info@ca-architect.com</p> <p>ELECTRIC NAME WULFF ELECTRIC ADDRESS 820 EURANKS DR. ADDRESS VACAVILLE, CA PHONE 707-447-3920 FAX 707-447-3921 E-MAIL wulff@wulffelectric.com</p>
	<p>CODES & REGULATIONS (SEE ES101 FOR ADD. CODES)</p> <p>2013 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.</p> <p>2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2009 INTERNATIONAL BUILDING CODE AND 2010 CALIFORNIA AMENDMENTS)</p> <p>2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2008 NATIONAL ELECTRICAL CODE AND 2010 CALIFORNIA AMENDMENTS)</p> <p>2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2009 UNIFORM MECHANICAL CODE AND 2010 CALIFORNIA AMENDMENTS)</p> <p>2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2009 UNIFORM PLUMBING CODE AND 2010 CALIFORNIA AMENDMENTS)</p> <p>2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. - WHERE APPLICABLE</p> <p>2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2009 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)</p> <p>2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R. (WHERE APPLICABLE)</p> <p>2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.</p> <p>TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.</p> <p>PARTIAL LIST OF APPLICABLE STANDARDS: NFPA 13, AUTOMATIC SPRINKLER SYSTEMS, 2013 EDITION NFPA 72, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED), 2013 EDITION NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES, 2013 EDITION NFPA 2012, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2012 EDITION REFERENCE CODE SECTION FOR NFPA STANDARDS - 2013 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.</p> <p>California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) U.S. Environmental Protection Agency (EPA) Region 9</p>	<p>CAMPUS MAP</p> <p>PARTIAL SITE PLAN INFORMATION FURNISHED BY SCCD</p>	<p>PROJECT: SUBSTATION REPLACEMENT PROJECT</p> <p>CONSULTANT TEAM:</p> <p>STAMP:</p> <p>ISSUE/REVISION: NO. DATE DESCRIPTION: 10/12/16 ISSUE FOR BID</p> <p>KEY PLAN:</p> <p>SCALE: DATE: PROJECT NO: PERMIT APPLICATION NO:</p> <p>COVER SHEET INDEX 0.00</p>	

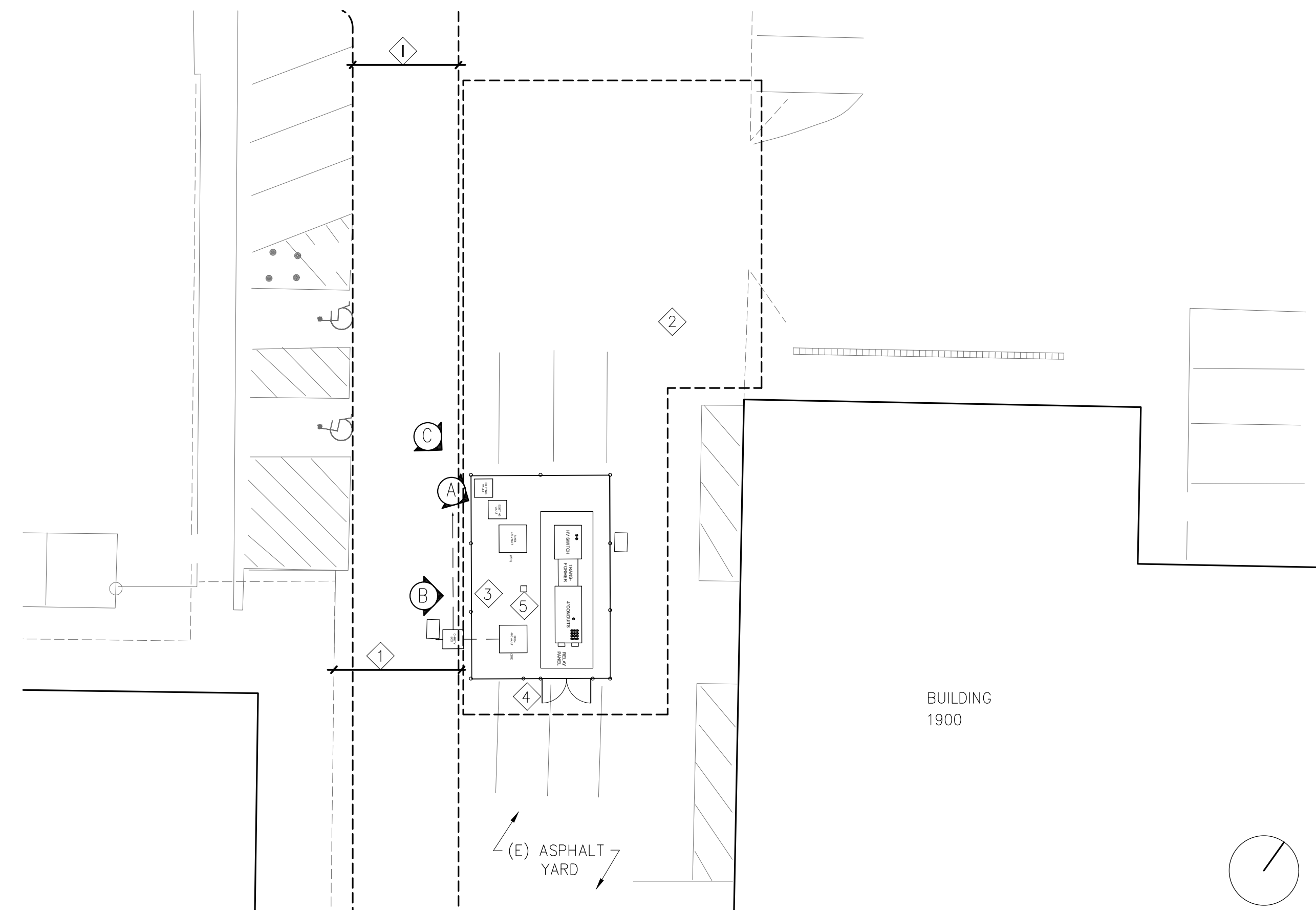


SHEET NOTES:

- ① MAINTAIN CLEAR AND OPEN DRIVE AISLE (TYP.)
- ② STORAGE/LAY-DOWN/PROJECT AREA FOR PROJECT (TBD)
- ③ (E) CONCRETE PAD TO REMAIN - SED
- ④ DEMOLISH (E) FENCE
- ⑤ PROTECT (E) TURF SEE 024119
- ⑥ PROTECT (E) PANELS, METERS & EQUIPMENT TO REMAIN SEE 024119
- ⑦ COORDINATE BARRIERS & SIGNAGE WITH DISTRICT FOR SAFETY DURING CONSTRUCTION (TYP)
- ⑧ PREPARE FOR NEW CONCRETE PAVING FOR LEVEL AREA REQ'D FOR EQUIPMENT CLEARANCE

11 PARTIAL SITE PLAN - EXISTING/DEMO SUBSTATION #1 (SEE ESI03 FOR DEMO)

SCALE: 1/16"=1'-0"



SHEET NOTES:

- ① MAINTAIN CLEAR AND OPEN DRIVE AISLE (TYP.)
- ② STORAGE/LAY-DOWN/PROJECT AREA FOR PROJECT (TBD)
- ③ (E) CONCRETE PAD TO REMAIN
- ④ (E) FENCE AND GATE TO REMAIN
- ⑤ (E) POLE LIGHT TO REMAIN (PROTECT AS REQ'D)
- ⑥ COORDINATE BARRIERS & SIGNAGE WITH DISTRICT FOR SAFETY DURING CONSTRUCTION (TYP)

05 PARTIAL SITE PLAN - EXISTING/DEMO SUBSTATION #2 (ESI04 FOR DEMO)

SCALE: 1/16"=1'-0"

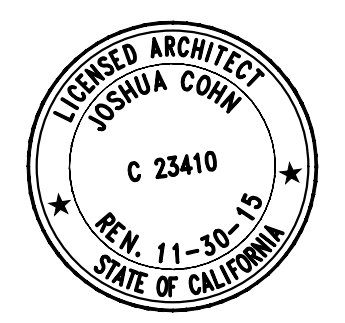
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ARCHITECT:
CA ARCHITECTS
 475 Gate Five Road, Suite 107
 Sausalito, CA 94965
 T 415.331.7655
 F 415.331.7656

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CONSULTANT TEAM:

STAMP:



SHEET LEGEND:

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KEY PLAN:

SCALE:
 DATE:
 PROJECT NO.:
 PERMIT APPLICATION NO.:

PARTIAL SITE PLAN / SITE PHOTOS

A1.00



A



B



C

10 EXISTING PHOTOS - SUBSTATION #1

GENERAL NOTES:

CONTRACTOR SHALL REVIEW THE OWNER'S CONDITIONS FOR HAZARDOUS MATERIALS (SEE 007313 AND 007756) AS WELL AS THE SOLANO COMMUNITY COLLEGE 12KV/480V FACILITIES INVESTIGATION REPORT (DATED AUGUST, 2009) PREPARED FOR AND FURNISHED BY THE SCCD TO ASSIST IN THEIR ASSESSMENT OF THE EXISTING EQUIPMENT AND PROJECT SITE FOR HAZARDOUS MATERIALS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WORK FOR THIS PROJECT, INCLUDING DEMOLITION, ABATEMENT AND DISPOSAL OF HAZARDOUS MATERIALS/EQUIPMENT AS INDICATED IN THE REPORT ALONG WITH THE CONTRACTOR'S SUBSEQUENT ASSESSMENT. NO WORK SHALL COMMENCE UNTIL THE PROJECT SITE HAS BEEN PROPERLY ABATED FOR HAZARDOUS MATERIALS BASED ON THE REQUIREMENTS AND PROCEDURES AND REQUIREMENTS OUTLINED IN THE DOCUMENTS AND WITH ALL AGENCIES HAVING JURISDICTION FOR SUCH MATERIALS AND THEIR ABATEMENT. THE COORDINATION OF THIS WORK SHALL BE DONE SUCH THAT THE UTILITY INTERRUPTION SHALL BE MINIMIZED AS MUCH AS FEASIBLE.

SHEET NOTES:

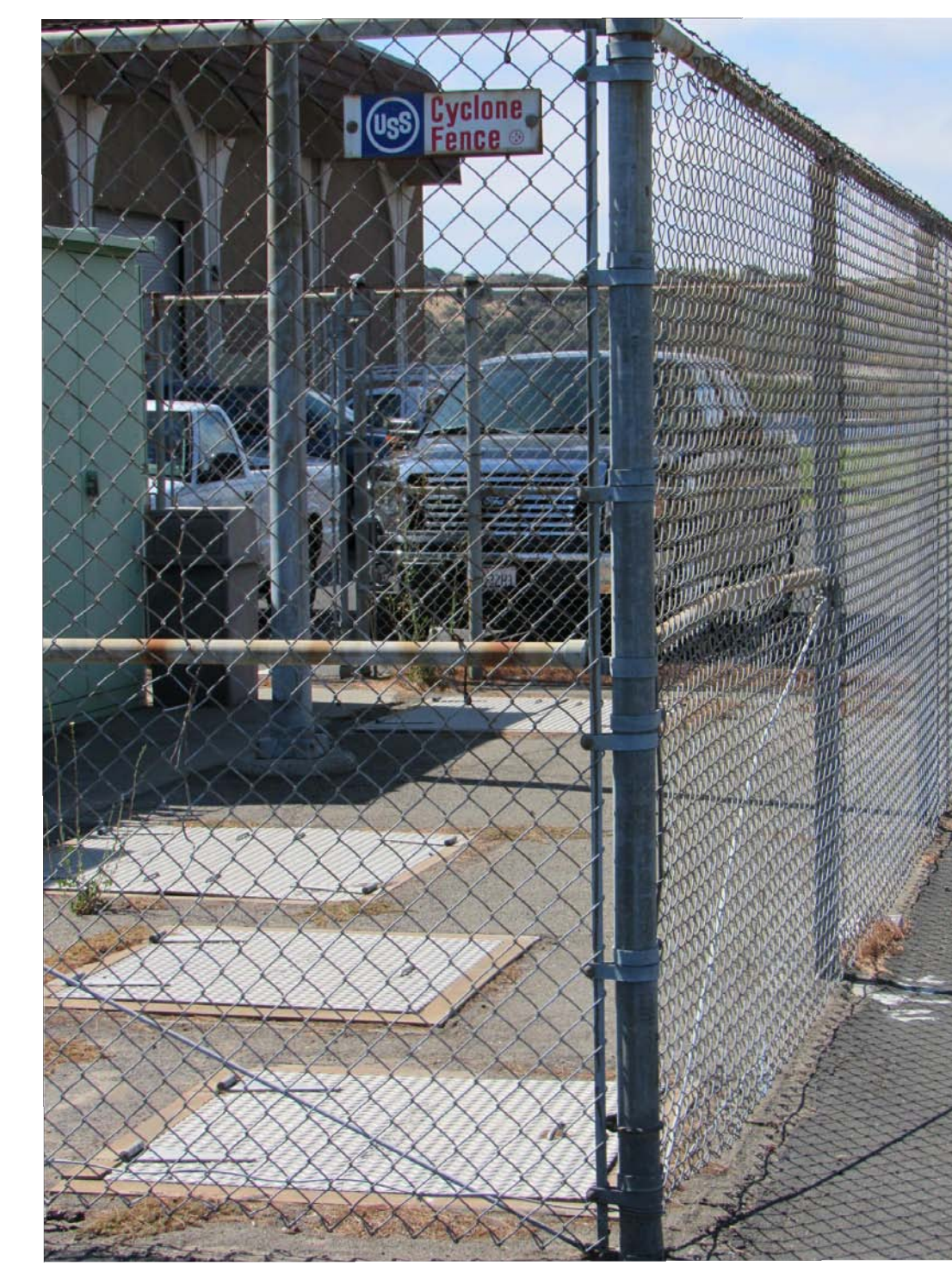
1. REMOVE AND PROPERLY DISPOSE OF EQUIPMENT AS SHOWN, SEE SECTION 02 41 19 SELECTIVE DEMOLITION FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK WITH HAZARDOUS MATERIALS ABATEMENT TO ENSURE SAFE WORKING ENVIRONMENT.
2. EXISTING CONCRETE PAD TO REMAIN, PROTECT AS NECESSARY.
3. EXISTING VAULTS TO REMAIN, PROTECT AS NECESSARY.



A

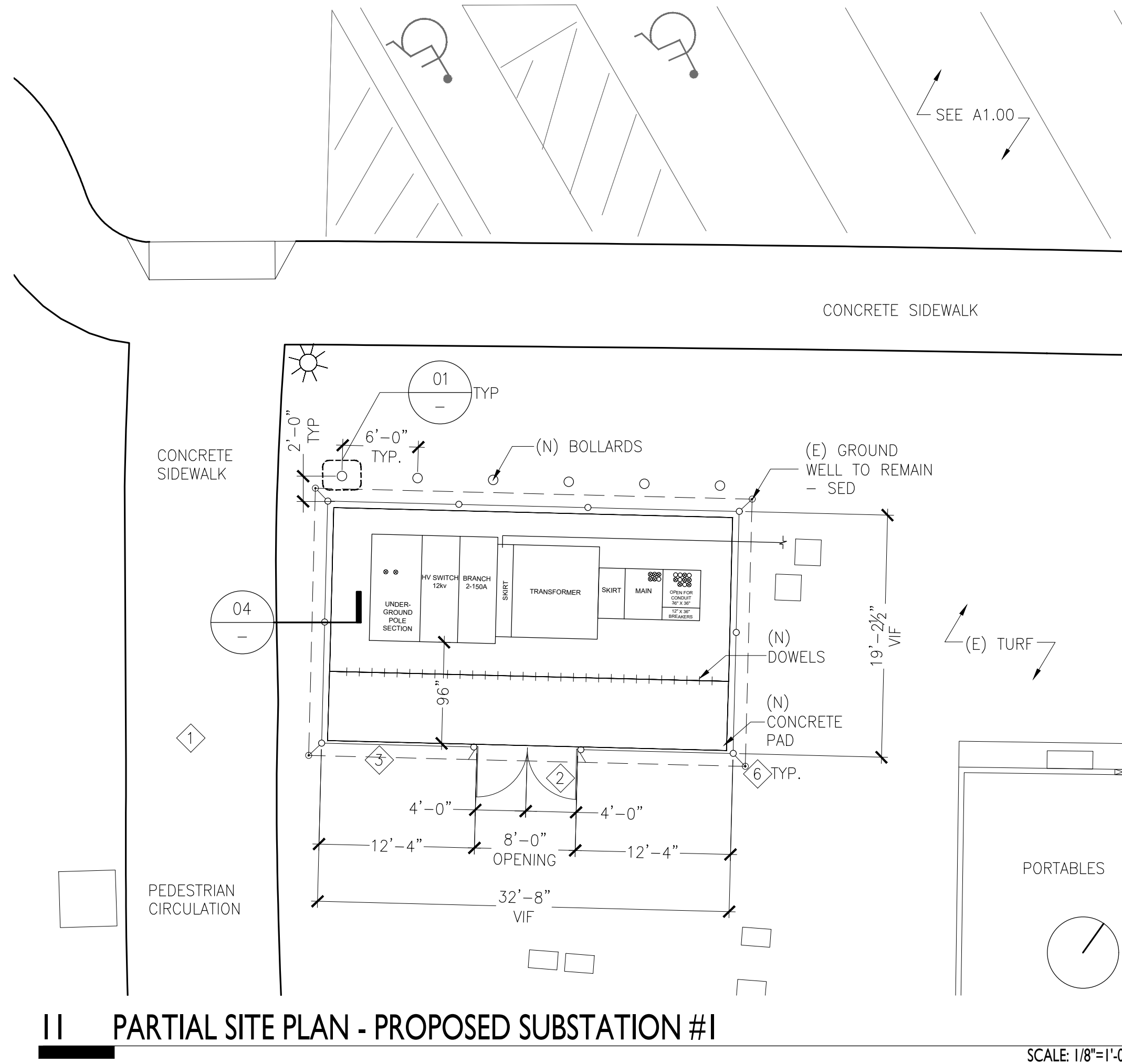


B



C

04 EXISTING PHOTOS - SUBSTATION #2



11 PARTIAL SITE PLAN - PROPOSED SUBSTATION #1

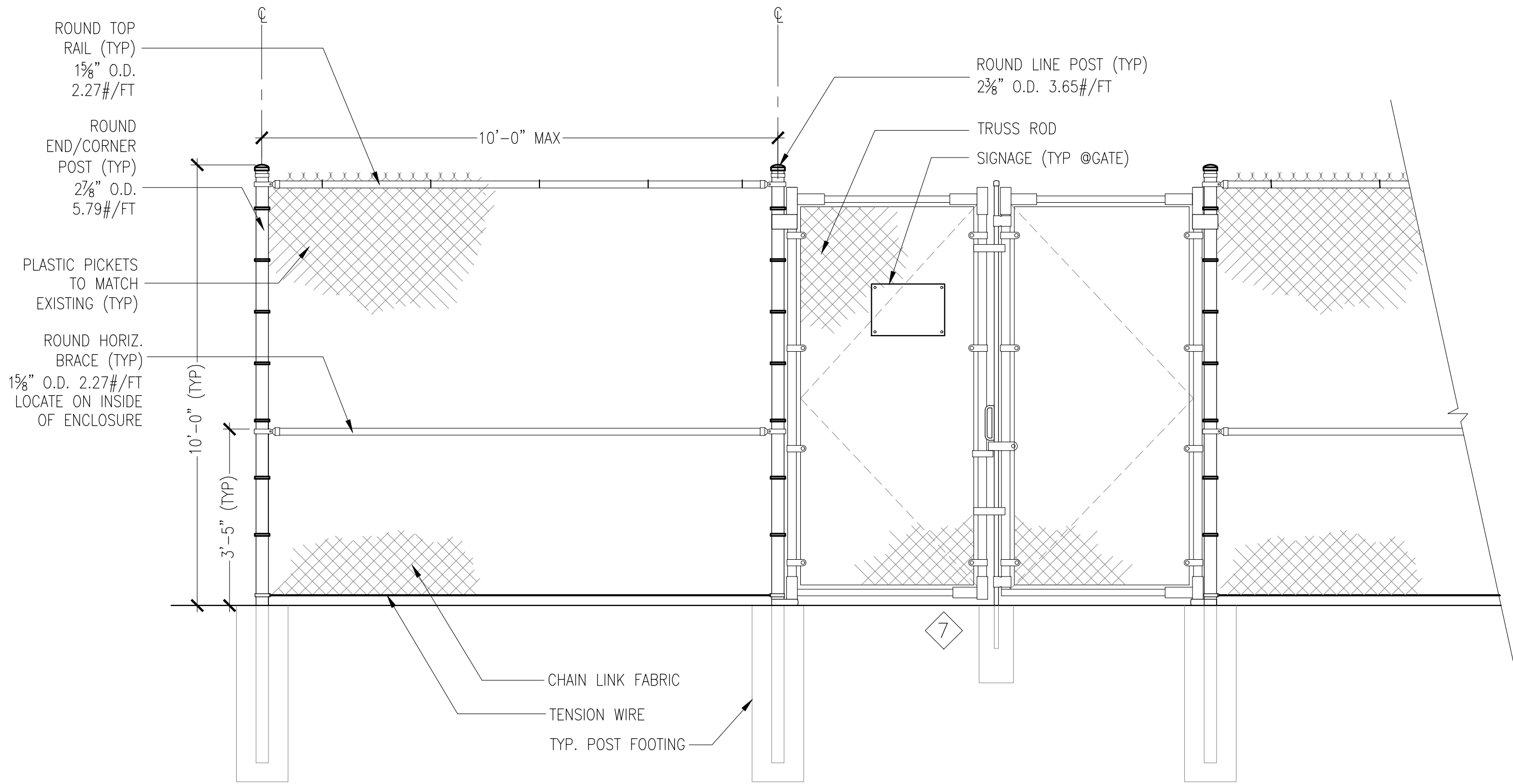
SCALE: 1/8"=1'-0"

SHEET NOTES:

- 1 DO NOT OBSTRUCT PEDESTRIAN/VEHICLE PATH PER 5 & 11/A1.00
- 2 (N) TWO (2) 4'-0" SWING GATES - LOCKING
- 3 (N) 10'-0" HIGH CHAIN LINK FENCE
- 4 PROJECT (E) CONCRETE WALKS, TURF, EQUIPMENT THAT SHALL REMAIN - SEE A1.00
- 5 (N) DOWELS 12" OC - SEE 032510
- 6 DO NOT COVER (E) GROUND WELL WITH NEW CONCRETE

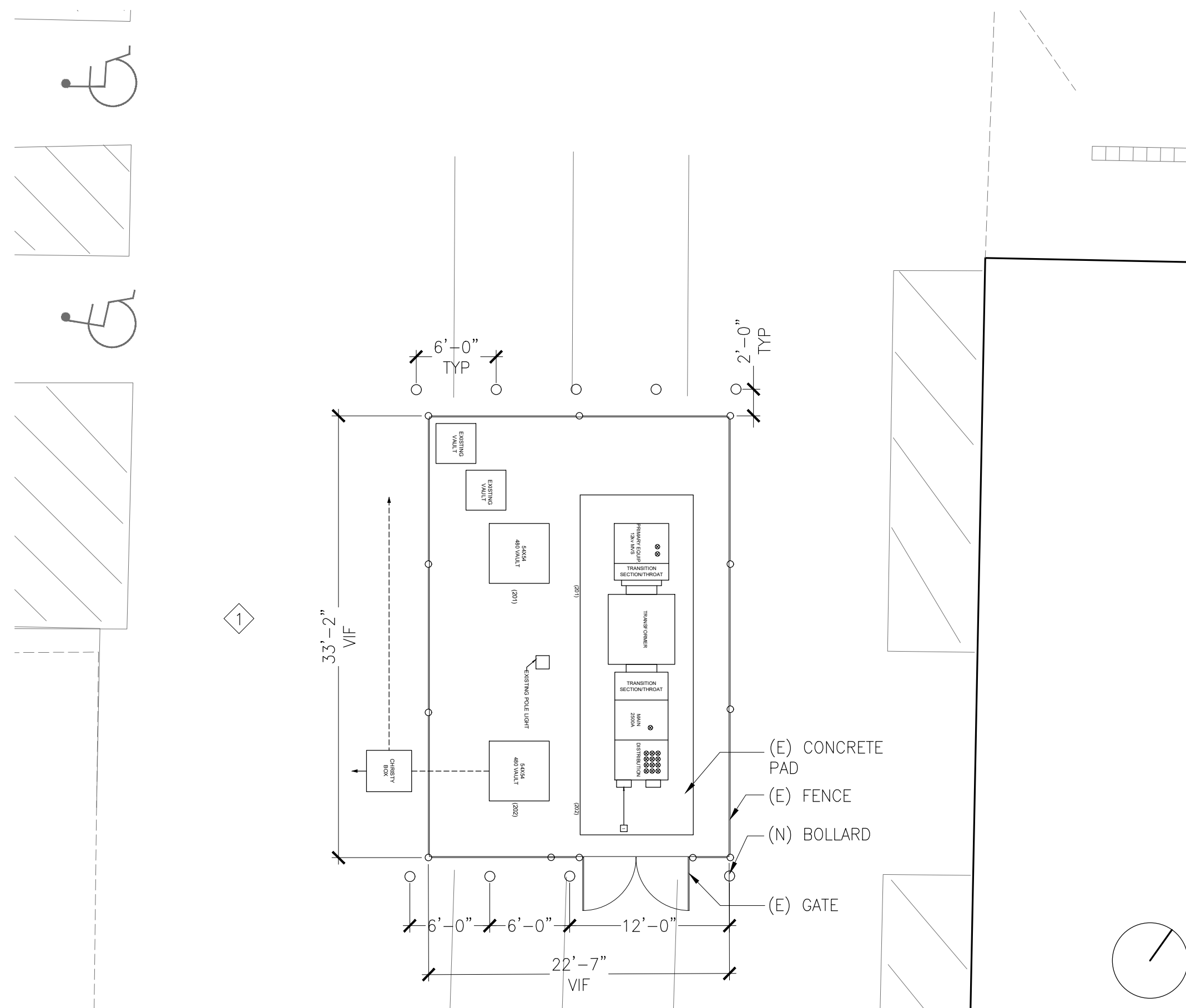
NOTES:

- 1. FABRIC SHALL BE 9 GAUGE 3 1/2" x 5 1/2" MESH WITH PLASTIC PICKETS 2 1/2" x 3/8" (TO MATCH EXISTING) ATTACHED TO FABRIC USING TWO GALVANIZED STAPLES (CRIMPED ON BACK SIDE). TOP & BOTTOM (TO MATCH EXISTING) SELVAGES TO BE KNUCKLED. PLACE FABRIC ON PUBLIC SIDE.
- 2. FABRIC TO BE ATTACHED TO END & CORNER POSTS USING 1/4" x 3/4" STRETCHER BARS.
- 3. BOTTOM TENSION WIRE SHALL BE 7 GAUGE GALVANIZED STEEL COIL SPRING WIRE. FABRIC TO BE ATTACHED TO TENSION WIRE USING 9 GAUGE HOG RING AT 18" SPACING.
- 4. FABRIC TIES -(a) TO POST USE 6 GAUGE STEEL POST CLIPS OR 9 GAUGE GALVANIZED STEEL WIRE TIES AT 14" SPACING (b) TO TOP RAIL USE 9 GAUGE GALVANIZED STEEL WIRE TIES AT 14" MAX SPACING.
- 5. TRUSS RODS SHALL BE ADJUSTABLE 3/8" GALVANIZED STEEL RODS.
- 6. PAINT POST AND RAILS TO MATCH EXISTING.
- 7. PROVIDE FOR LOCKING GATE ENCLOSURE (TYP) PER SCCD STANDARDS
- 8. CHAIN LINK SHALL BE GALVANIZED, ALL ATTACHMENTS SHALL ENSURE NO EXPOSED SHARP EDGES (TYP.), HEM ALL EXPOSED EDGES OF CHAIN LINK FABRIC (TYP.)
- 9. CARE SHALL BE TAKEN DURING THE INSTALLATION OF THE CHAIN LINK SUCH THAT NO ADDITIONAL LOAD SHALL BE PLACED ON THE EXISTING FENCE AND STRUCTURE.
- 10. PRIOR TO EXCAVATION OF ANY SITE WORK, CONTRACTOR SHALL PROVIDE USA SERVICES TO DETECT (E) UTILITIES, CARE SHALL BE TAKEN TO ALLOW (E) UTILITIES TO REMAIN INTAKE (TYP)



05 TYPICAL CHAIN LINK FENCE/GATE ELEVATION (INSIDE VIEW - TYP)
(FOR REFERENCE ONLY)

SCALE: 1/2"=1'-0"

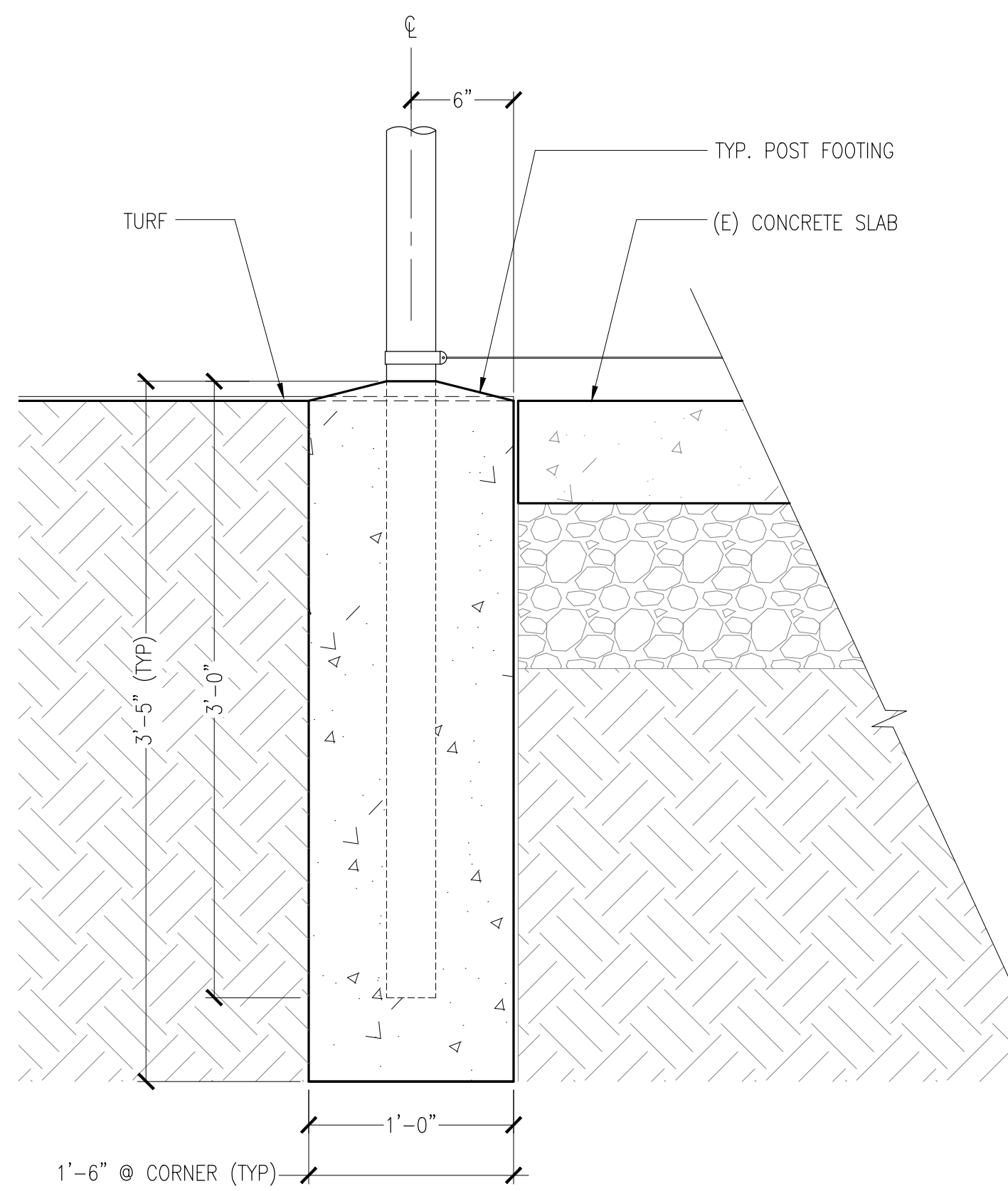


10 PARTIAL SITE PLAN - PROPOSED SUBSTATION #2

SCALE: 1/8"=1'-0"

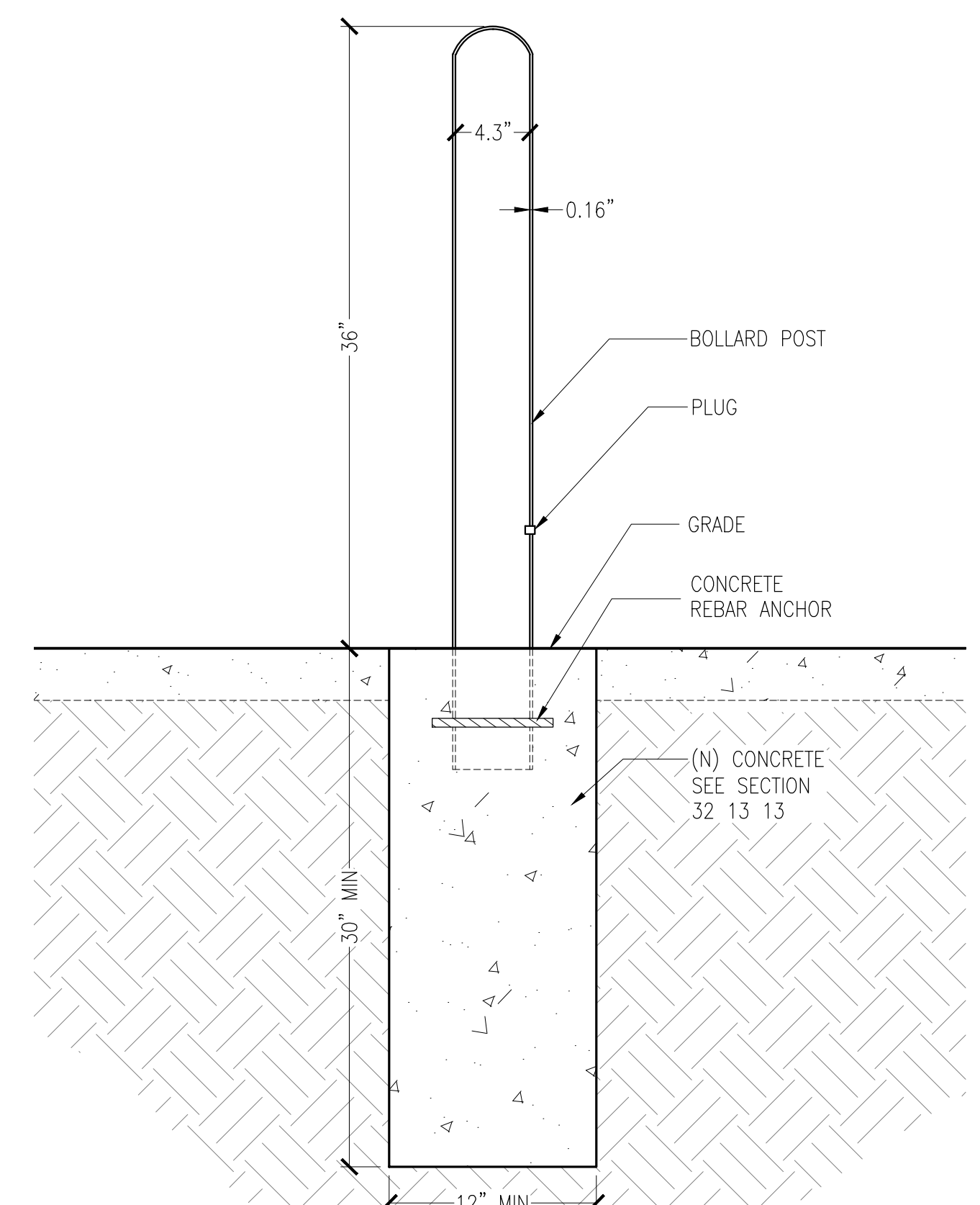
SHEET NOTES:

- 1 DO NOT OBSTRUCT PEDESTRIAN/VEHICLE PATH.



04 TYP. FENCE POST FOOTING

SCALE: 1-1/2"=1'-0"



01 BOLLARD POST - FIXED INSTALLATION
(FOR REFERENCE ONLY)

SCALE: 1-1/2"=1'-0"

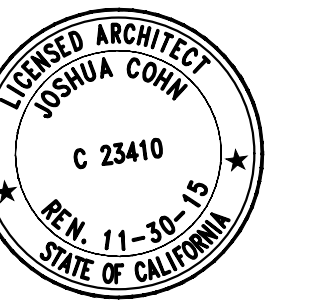
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ARCHITECT:
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CONSULTANT TEAM:

STAMP:



SHEET LEGEND:

ISSUE/REVISION:
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10/12/16 ISSUE FOR BID

KEY PLAN:

DRAFT NOT FOR CONSTRUCTION

SCALE:
DATE:
PROJECT NO.:
PERMIT APPLICATION NO.:

PARTIAL PLANS / DETAILS

A8.00

GENERAL NOTES:

OVERVIEW

The term SCCD represents Solano Community College District. The Solano Community College Campus at Fairfield, California, was completed in 1971. The 192-acre campus is located just off I-80 on Suisun Valley Road, and serves over 12,000 students. The campus receives service from Pacific Gas & Electric (PG&E) at 12,000 volts (12kV) from a PG&E overhead distribution line paralleling Suisun Valley Road on its west side. Service to the campus is by underground cable to a metered service point with fused main service disconnect switch which serves five (5) unit substations located through the campus from an underground 12kV radial tapped cable system. The first (4) of these substations (numbered Substations 1 thru 4) were installed during the initial campus construction on the 1968-dated plan set. Substation #5 serving the Stadium was installed somewhat later. Substation #1, #2, #4, and #5 are located outdoors and Substation #3 is located indoors to Building 2000 (Mechanical Building).

Substation #1

Substation #1 is located adjacent to the campus utility service point with a main disconnect switch. Substation #1 is a single-ended outdoor substation consisting of an outdoor-rated 12kV, 200amp fusible disconnect switch serving an oil-filled substation-type transformer rated 2500kVA OA, (delta) primary to 277/480V (wye) secondary distribution section. The Substation #1 4000A, 480V distribution switchboard serves building loads in the northwest campus area through individual feeder breakers. Substation #1 was installed as part of the initial campus construction as detailed on the 1968-dated plan set.

Substation #2

Substation #2 is located adjacent to Building 1900 (Maintenance and Operations Building). Substation #2 is a single-ended, outdoor substation consisting of an outdoor rated 12kV, 200amp fusible disconnect switch serving an oil-filled substation-type transformer rated 1500kVA OA, (delta) primary to 277/480V (wye) secondary. The substation #2 2500 amp, 480 volt distribution switchgear serves building loads in the northeast campus area through individual circuit breakers. Substation #2 was installed as part of initial campus construction as detailed on the 1968-dated plan set.

Substations #3, #4 and #5 will not be impacted by this Scope of Work.

12kV Underground Distribution System:

The 12kV underground distribution system consists of 15kV, 500kcmil copper cables rated at 465 amps and are installed in underground conduits. Due to cable failures in the past, all 12kV cables between all five (5) substations have been replaced with new cables. The existing underground cable system will be disconnected from the existing Substations #1 and #2 and reconnected to the new Substations #1 and #2.

PG&E Coordination:

Contractor will be responsible for PG&E coordination and inspections. Contractor shall submit to SCCD, Submittals for Substations #1 & #2 within 30 days after the award of contract. These submittals shall be submitted to PG&E for approval prior to ordering any equipment. When communicating to PG&E reference Application #111422807 with security code #F1233536.

1.1 SCOPE

The Scope of Work for this project is to replace Substation #1 and Substation #2 and shall include:

Substation #1:

Substation #1 shall consist of the following:

12kV Section:

- (1) Utility Underground Pull Section
- (1) Metering Section with (2) Meters
- (1) CLF 400A 3P Main Switch
- (2) CLE 150E 3P Fusible Branch Switches

Transformer:

- (1) 2500kVA 3 Phase Substation Transformer, 12kV to 480V

Distribution:

4000A 480V/277V 3Pole Main with the following 3Pole Distribution Breakers:

- (1) 1000A, (1) 800A, (3) 400A, (2) 200A, (1) 60A, provision for addition distribution cabinet

Substation #2:

Substation #2 shall consist of the following:

12kV Section:

- (1) 200A 3P Fusible Switch with 125 E fuses

Transformer:

- (1) 1500kVA 3 Phase Substation Transformer, 12kV to 480V

Distribution:

2500A 480V/277V 3Pole Main with the following 3Pole Distribution Breakers:

- (4) 600A, (4) 225A and (3) 60A Provisions

Installation Procedure (See Specifications for more detailed requirements)

Contractor shall provide a Method of Procedure (MOP) with an efficient time frame for removing existing substations, installing new substations, testing and energizing. This shall be provided to the SCCD with a detailed MOP with tasks and time frames within 30 days of the award of contract. SCCD shall provide shutdown dates and Contractor shall be responsible for the coordination of all manufacturers, suppliers and subcontractors to meet mutually agreed upon schedule, which could include weekend and premium time. Reuse all existing feeders. Contractor shall include splicing as part of base bid. All feeders shall match existing feeder sizes.

Contractor shall stage substations (confirm with SCCD) outside of the fenced area on trench plate, connect 12kV Switch to Transformer and Transformer to Distribution. Intent shall be to perform as much prefabrication as feasible. The Contractor shall be responsible for all shipping and delivery of all materials and a crane shall be staged on-site the night prior to shut down. The crane will need to be capable to lift a minimum of 14,700 pounds or the greatest weight anticipated with all safety margins accounted for (whichever is greater). A flatbed truck shall be staged on-site prior to shutdown to coordinate placements of existing substations directly onto trailers.

Temporary Power Requirement during electrical shutdown:

Contractor to coordinate rental generators and fuel for generators. Contractor shall be responsible for generator rental costs, and generator fuel costs.

The following building will require temporary power during the shutdown.

Building Description Substation Breaker Amps Tie Point Temp Amps1200Music Drama#1800Building Panel400 1400Student Center#11000Building Panel400600Administration#4300Sub#4 100Library#4800Sub#4 300Science#4600Sub#4Sub#4200Child Care#4300Sub#48001700Physical Ed#3600Sub#3 1700BPhysical Ed#2 Building Panel 2000Central Plant#3 Sub#3Sub#32100Swimming Pool#3 Sub#39002200Swimming Pool#3 Sub#3 1900Warehouse#2 Building Panel 1800AVocational#2 Building Panel200

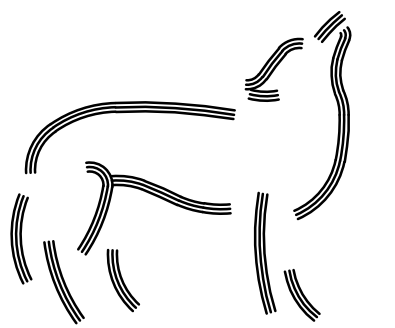
PCB Transformer Contamination:

Substation transformers are mineral oil-filled outdoor substation-type transformers. They have PCB levels that classify them as contaminated (PCB level greater than 50 parts per million). These transformers must be properly labeled with PCB levels, and will require qualified disposal when removed from service. The Scope of Work requires the replacement of Substation #1 and Substation #2 transformers. It will be the contractor responsibility for the safe removal of the existing transformers (see the specifications for additional requirements). At time of the crane removal to have a flatbed trailer available at the site to set transformer onto the trailer and to offsite from the campus the day of removal. It is the contractor's responsibility to safely remove the transformers. It will be the Contractor's responsibility to contract for cleanup any PCB's that may spill during the transformers removal and transportation to a certified disposal site. Documentation of certified disposal acceptance from a permitted and approved EPA site of the transformers shall be submitted to SCCD within 5 days of removal. The above statement shall be used as a reference. Chosen contractor shall consult with the SCCD on district policy for removal of contaminated material. Its the responsibility of the chosen contractor to follow district policy.

Offsite removal of existing Substations excluding transformer:

The removal of existing Medium Voltage Metering, switch cabinets and 480V distribution cabinets with all components shall be removed from the site within 5 days.

Contractor shall include in proposal a price for removing existing fencing around Substation #1 and replacing fencing and gate. Price for this work shall include detailed drawing for approval. The existing fence and gate with all associated components shall be removed from the site.



**Wulff
Electric**

820 EUBANKS DR.
VACAVILLE, CA
(707) 447-3920

"THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY WULFF ELECTRIC CO. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 67317.4 OF THE PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA. NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF WULFF ELECTRIC CO."



SOLANO COMMUNITY COLLEGE
 4000 SUISUN VALLEY ROAD
 FAIRFIELD, CA 94534

GENERAL NOTES

NUMBER	REVISION	DATE
	ISSUE FOR BID	10/12/2016

ISSUED FOR:	BID SET
DATE:	09/29/16
SCALE:	N.A.
DRAWN:	FL

SHEET
ES101

GENERAL NOTES:

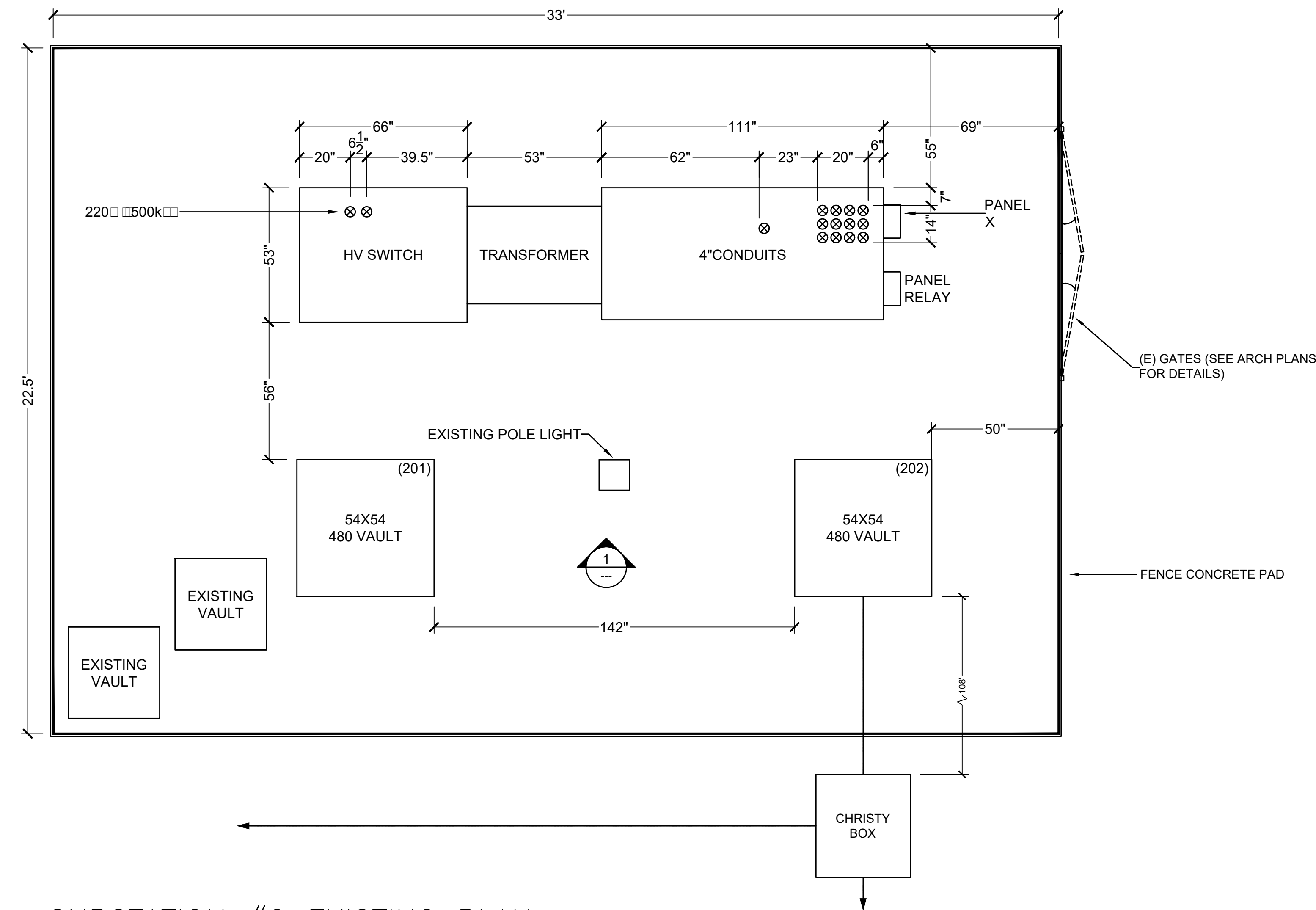
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NOTES:

1. REMOVE AND PROPERLY DISPOSE OF EQUIPMENT AS SHOWN, SEE SECTION 02 41 19 SELECTIVE DEMOLITION FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK WITH HAZARDOUS MATERIALS ABATEMENT TO ENSURE SAFE WORKING ENVIRONMENT.
2. EXISTING CONCRETE PAD TO REMAIN, PROTECT AS NECESSARY.
3. EXISTING VAULTS TO REMAIN, PROTECT AS NECESSARY.

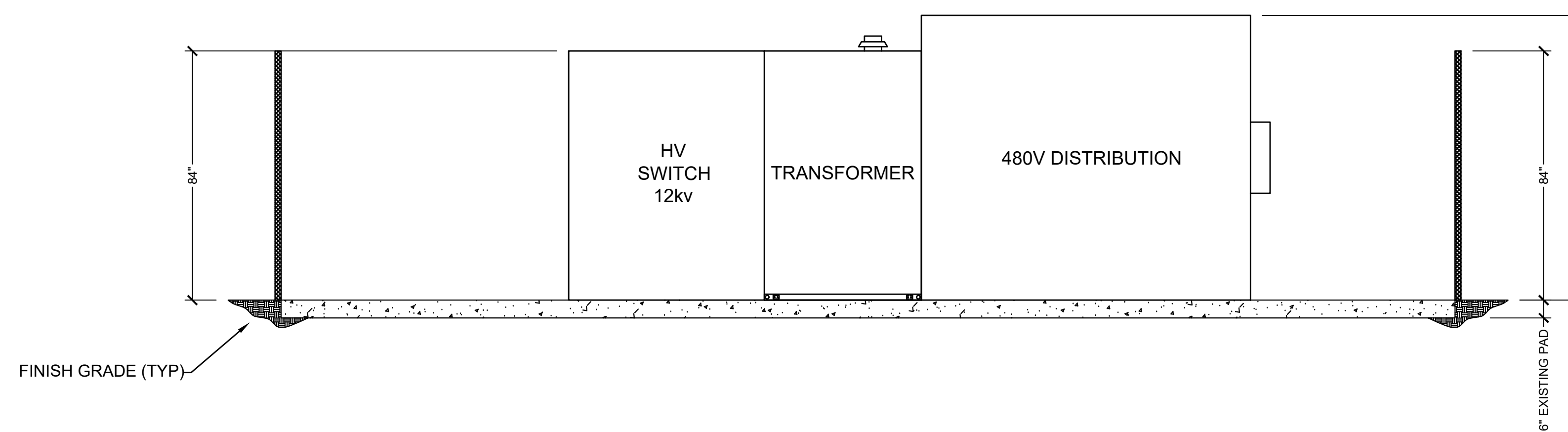
LEGEND:

- ⊗ OCCUPIED FEEDER IN CONDUIT
- RESERVED STUB UP CONDUITS
- PAD



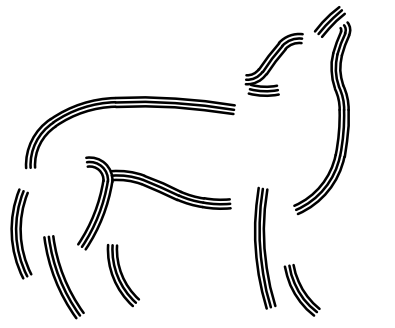
② SUBSTATION #2 EXISTING PLAN

SCALE: 3/8" = 1'-0"



① EXISTING ELEVATION 480v DISTRIBUTION

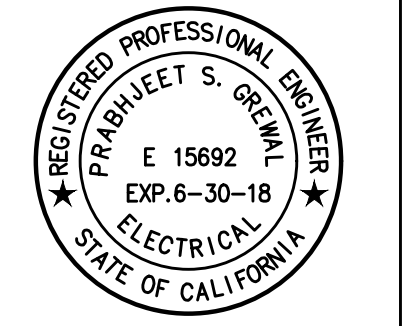
SCALE: 3/8" = 1'-0"



Wulff Electric

820 EUBANKS DR.
VACAVILLE, CA
(707) 447-3920

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SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

SUBSTATION #2
EXISTING

NUMBER	REVISION	DATE
Δ	XXX	XXX

ISSUED FOR:	BID SET
DATE:	10/12/16
SCALE:	AS NOTED
DRAWN:	FL

SHEET
ES104

