

Work Variance Request Form

Groundwater Remedy Phase 1 Construction, PG&E Topock Compressor Station, Needles, California

PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT

Work Variance Request #3 – Proposed changes within the Construction Headquarters (CHQ) fence line

Request Prepared By: PG&E

Date Submitted: 12/24/18

Variance Request No.: 3

Location: Construction Headquarters (CHQ)

Request Approval From: DTSC and DOI

Date Approval Required: January 2019

Map Area: N/A

Land Manager: BLM Land Owner Parcel No: 650-161-12

Current Vegetative Cover/Land Use: Minimal vegetation

Existing Sensitive Resource? No Yes, Specify: N/A

Variance From: Mitigation Measure Work Plan/Procedure Response to Comments

Drawing Permit Condition Other

Detailed Description of Variance and Justification (Attach additional information if necessary):

Attachments: Photo Construction Drawing Aerial Photo Mark-Up Correspondence Other

Potential Impacts of Variance:

- | | | |
|---|--|---|
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Hazardous Materials | <input checked="" type="checkbox"/> Aesthetic |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Noise | <input type="checkbox"/> Water Resources |
| <input type="checkbox"/> Soils | <input type="checkbox"/> Paleo Resources | |
| <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Hydrology and Water Quality | |

Description and Justification:

This Work Variance Request addresses proposed changes within the CHQ fence line to avoid/minimize the overall amount of soil disturbance during construction, reduce the number of truck trips to haul wastewater, and allow for additional working space within the yard. There are no proposed changes to the CHQ footprint nor its fence line. The specifics are described below and included in the attached drawings.

- a) **Relocate the decontamination pad from the western fence to the northern fence (near the western corner).**
Based on recent survey data collected during construction, the difference in ground elevation between northern and southern end of the pad is about 4 feet. Moving the pad to the northern fence would eliminate the difference in ground elevation and reduce the amount of soil disturbance by at least 80 cubic yards.
- b) **Bring the remedy-produced wastewater tank from belowground to aboveground, increase the tank volume from 1,000 to 2,500 gallons, and place the aboveground, double-walled tank adjacent to the decontamination pad.** The change from belowground to aboveground reduces the amount of soil disturbance by at least 50 cubic yards. The change to a bigger tank will reduce the amount of truck trips needed to haul wastewater. The placement of the tank adjacent to the decontamination pad allows for the pad to function as a secondary containment for the haul truck during off-loading of the wastewater.
- c) **Defer construction of the underground sewage tanks.** Deferral of the underground tanks reduces the overall amount of soil disturbance by at least 800 cubic yards. All sanitary wastes will be managed in aboveground sewage tanks (similar to the ones currently used for the SPY trailers) or portable toilets.
- d) **Swap the location of the construction trailers and the sunshade and change the configuration of the sunshade from a rectangle to a square.** This change will allow for more working space within the CHQ. All functions that would occur in the Workshop/Sampling Processing building will be conducted in the construction trailers.


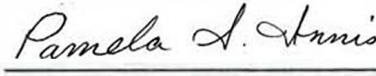
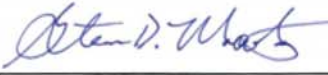

Work Variance Request Form

Groundwater Remedy Phase 1 Construction, PG&E Topock Compressor Station, Needles, California

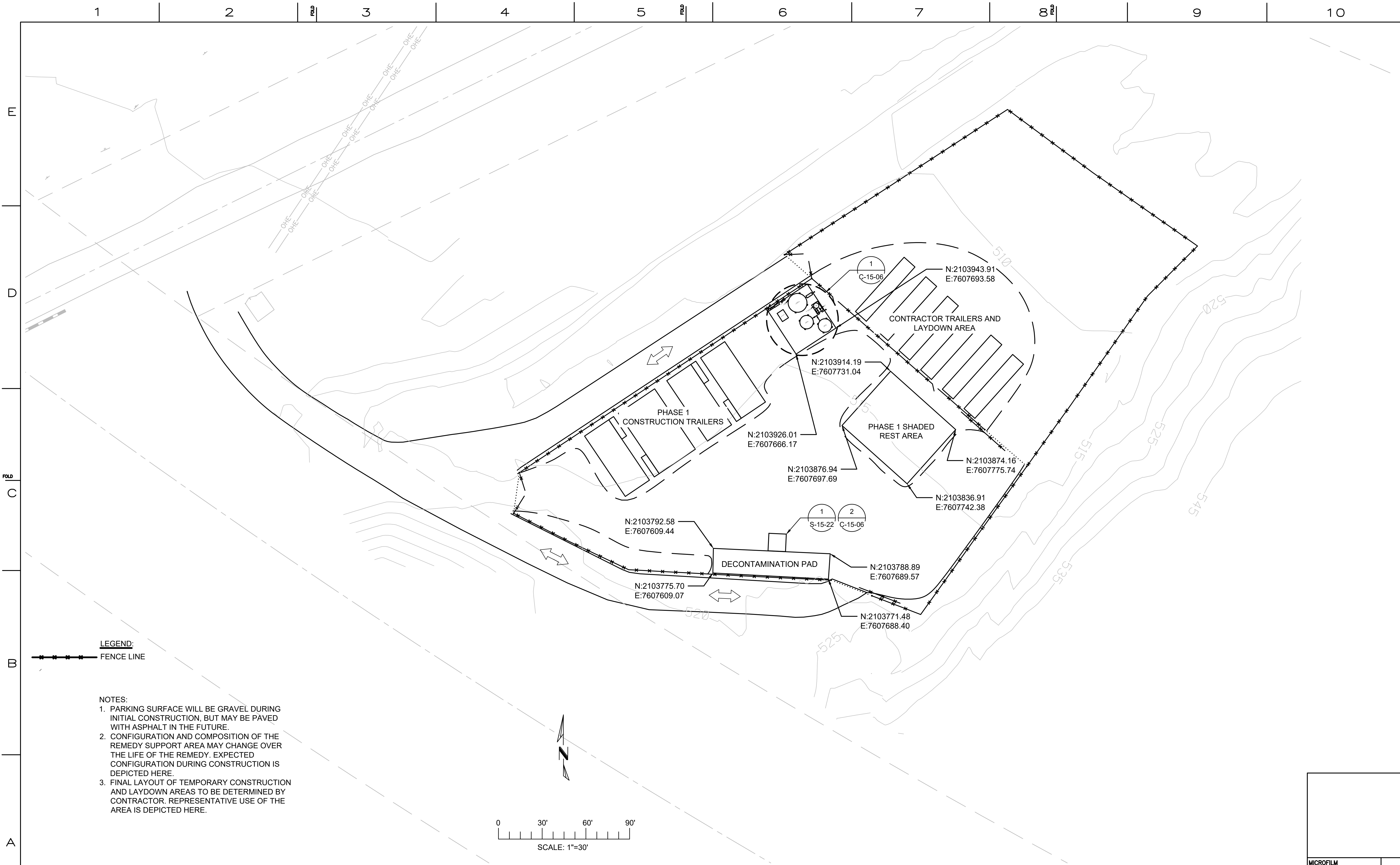
PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT

Work Variance Request #3 – Proposed changes within the Construction Headquarters fence line

Approval Signatures:

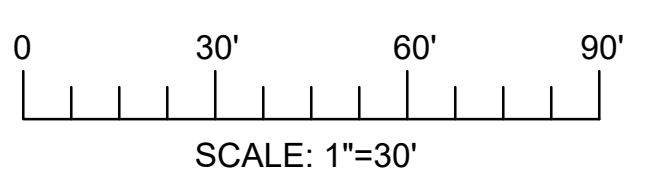
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PG&E Construction Manager	Date	Approving Agency		Date
	12/20/18		DTSC	1/4/2019
PG&E QA Manager	Date	Approving Agency		Date

Revised Drawings for Work Variance Request #3



LEGEND:
 --- FENCE LINE

- NOTES:**
1. PARKING SURFACE WILL BE GRAVEL DURING INITIAL CONSTRUCTION, BUT MAY BE PAVED WITH ASPHALT IN THE FUTURE.
 2. CONFIGURATION AND COMPOSITION OF THE REMEDY SUPPORT AREA MAY CHANGE OVER THE LIFE OF THE REMEDY. EXPECTED CONFIGURATION DURING CONSTRUCTION IS DEPICTED HERE.
 3. FINAL LAYOUT OF TEMPORARY CONSTRUCTION AND LAYDOWN AREAS TO BE DETERMINED BY CONTRACTOR. REPRESENTATIVE USE OF THE AREA IS DEPICTED HERE.



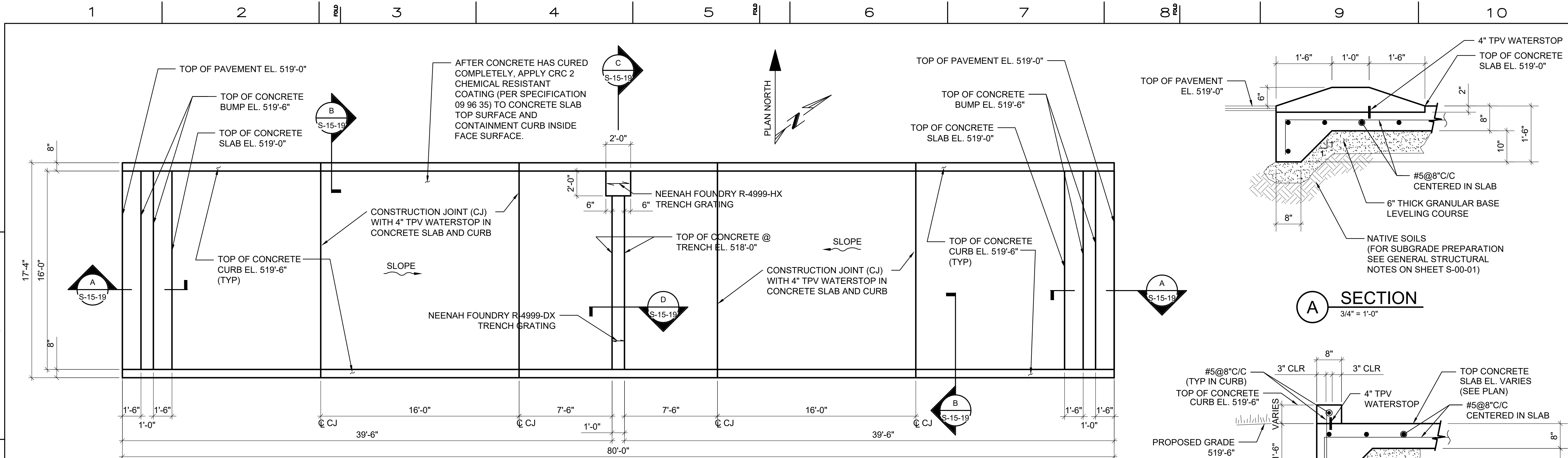
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									4	6/16/17	ISSUED FOR BID					
									3	11/9/16	100% BOD ERRATA INFO PACKAGE					
									2	11/18/15	FINAL DESIGN					
									1	8/5/15	90% RTC RESOLUTION					
									0	2/2/15	SUPPLEMENTAL PRE-FINAL (90%) DESIGN					

APPROVED BY	SO
RAO	SUPV
	DSGN
	DWN
	CHKD
	OK
	DATE
	SCALES

TOPOCK GROUNDWATER REMEDIATION PROJECT
CONSTRUCTION HEADQUARTERS YARD PLAN
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

MICROFILM	
BILL OF MATL	
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SHEET NO. of SHEETS	
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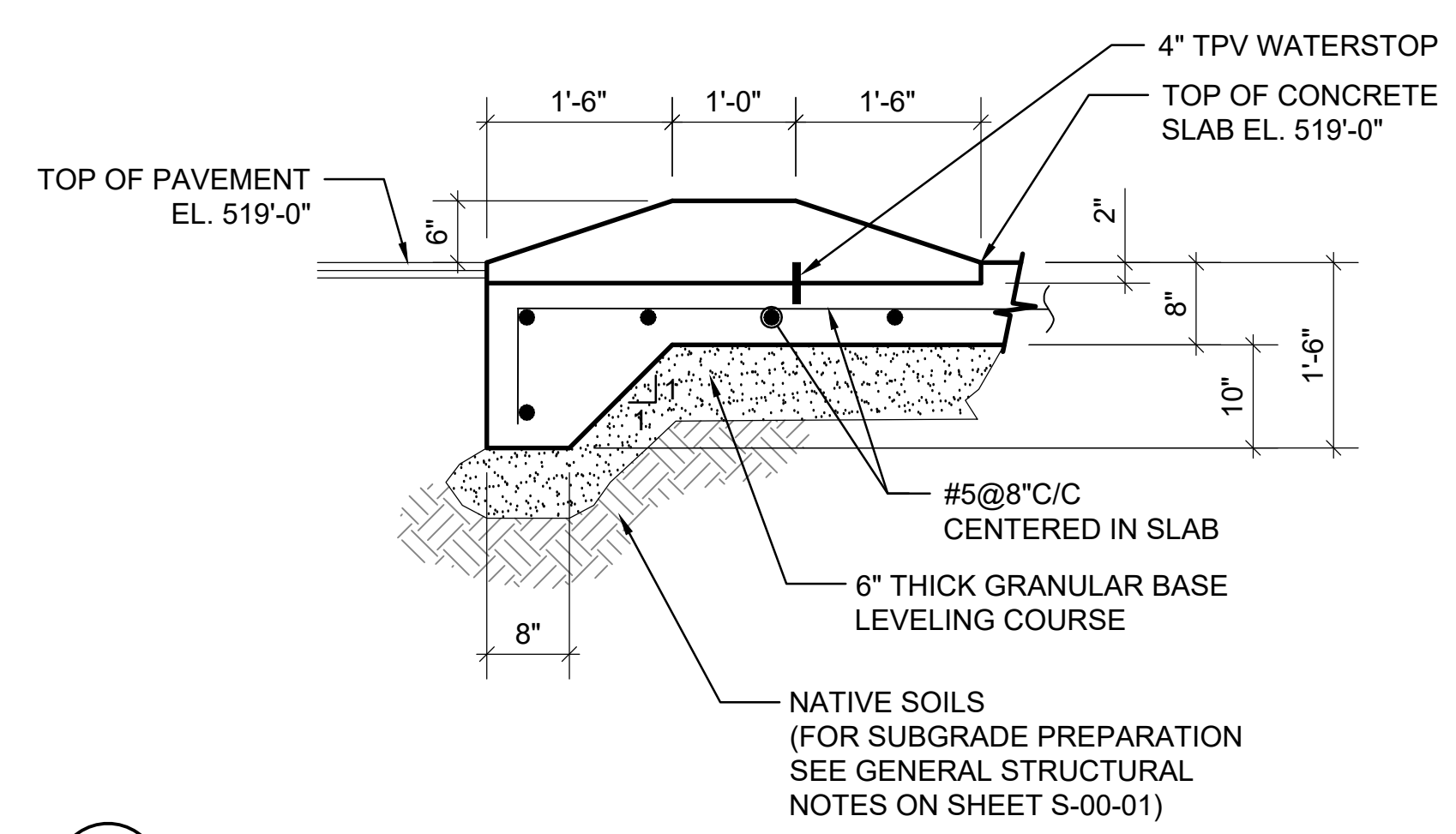
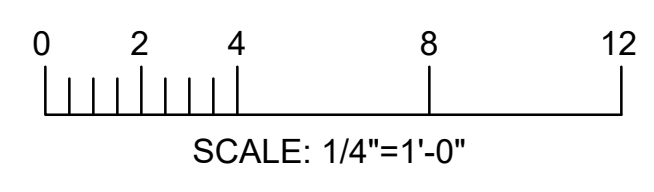
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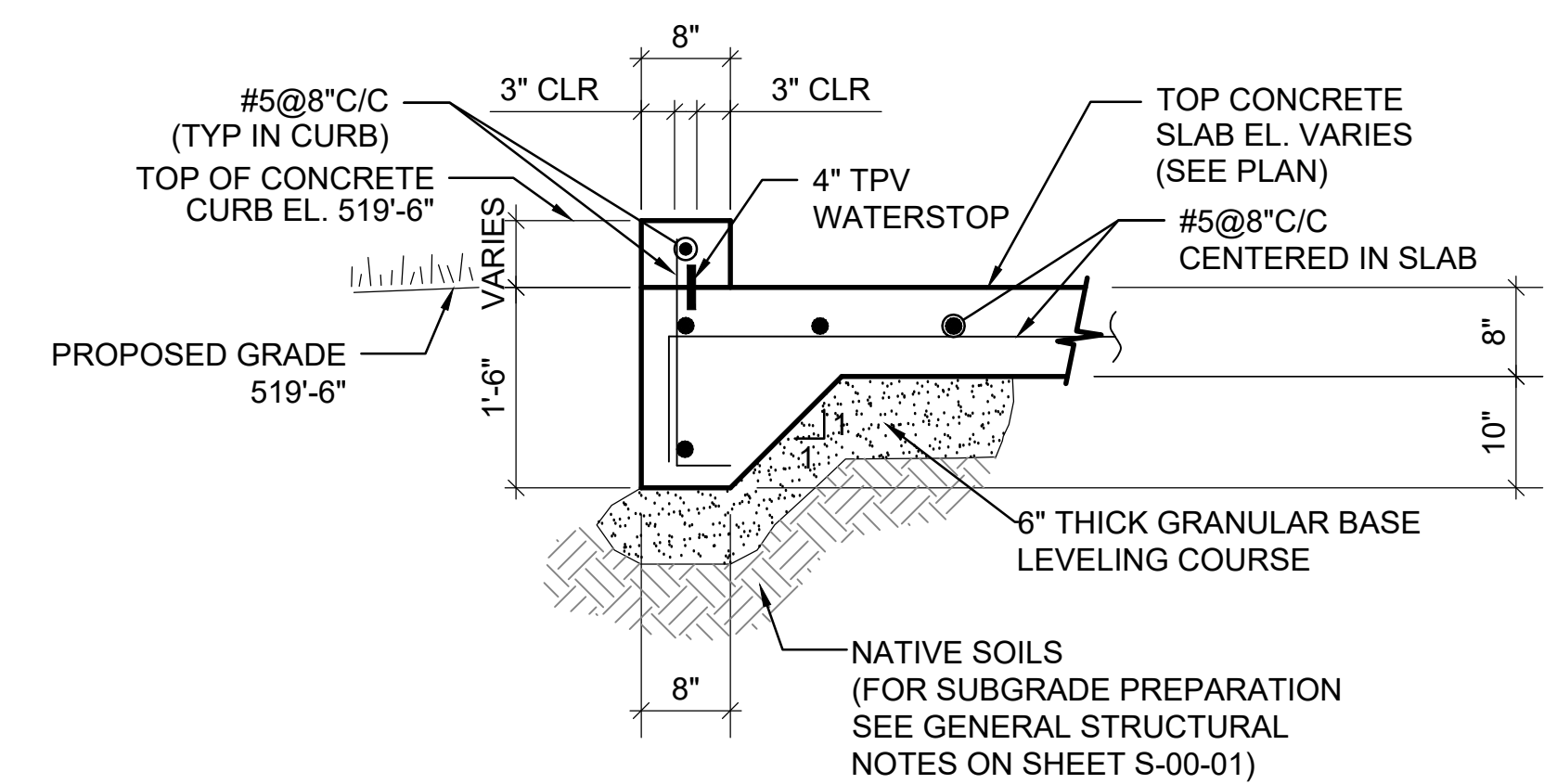
* TO BE VERIFIED BY CONTRACTOR FOR APPROVED MANUFACTURER'S STORAGE TANK SHOP DRAWINGS

CHQ DECONTAMINATION PAD

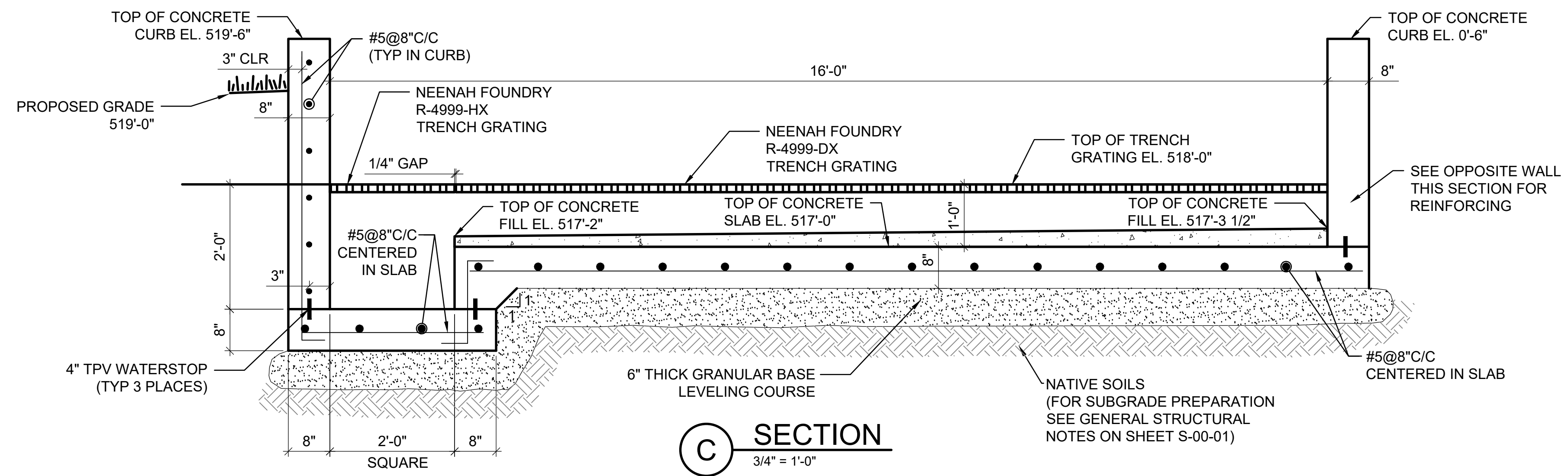
1/4" = 1'-0"



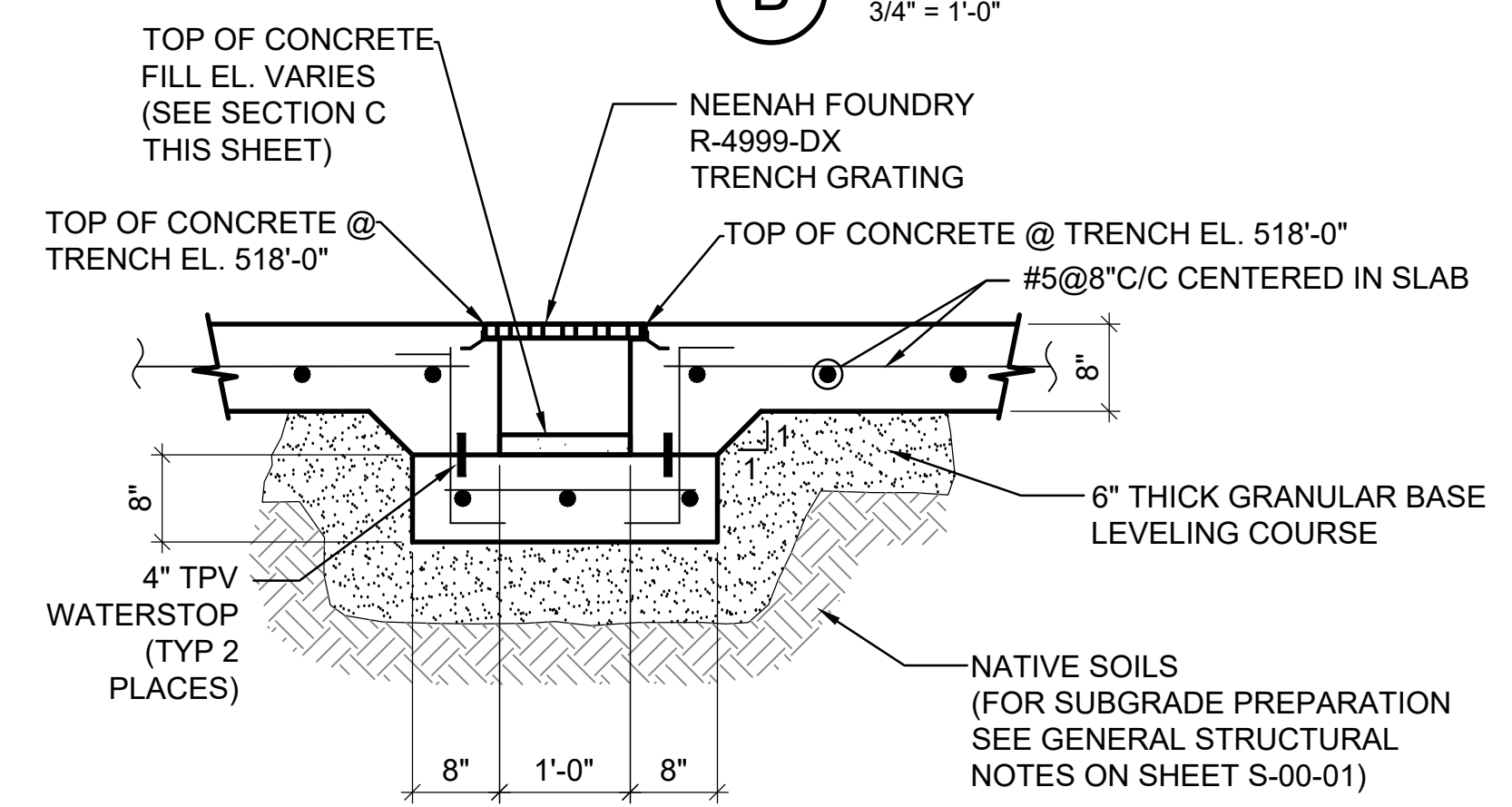
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3/4" = 1'-0"



B SECTION
3/4" = 1'-0"

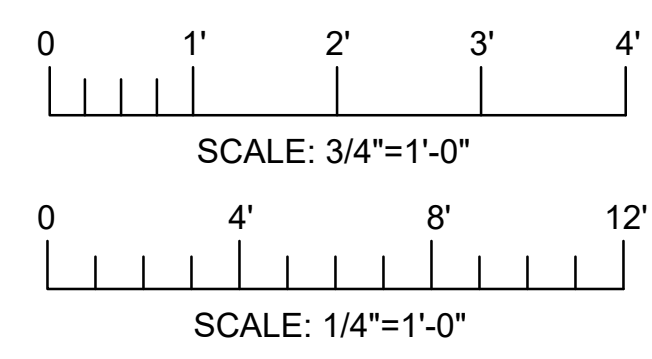


C SECTION
3/4" = 1'-0"



D SECTION
3/4" = 1'-0"

- FOUNDATION NOTES:**
- REFER TO THE GENERAL STRUCTURAL NOTES AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - FOUNDATION DESIGN IS BASED UPON 2,000 psf ALLOWABLE BEARING PRESSURE, IN CONFORMANCE WITH CBC TABLE 1806.2 FOR CLASSIFICATION(S) SW, SP, SM, SC, GM, AND/OR GC. A LICENSED CALIFORNIA PROFESSIONAL ENGINEER (UNDER THE SUPERVISION OF A LICENSED CALIFORNIA PROFESSIONAL ENGINEER EXPERIENCED IN GEOTECHNICAL ENGINEERING) SHALL INSPECT THE EXCAVATIONS AND CONFIRM THAT 2,000psf BEARING IS ALLOWED FOR THE FOUNDATIONS.

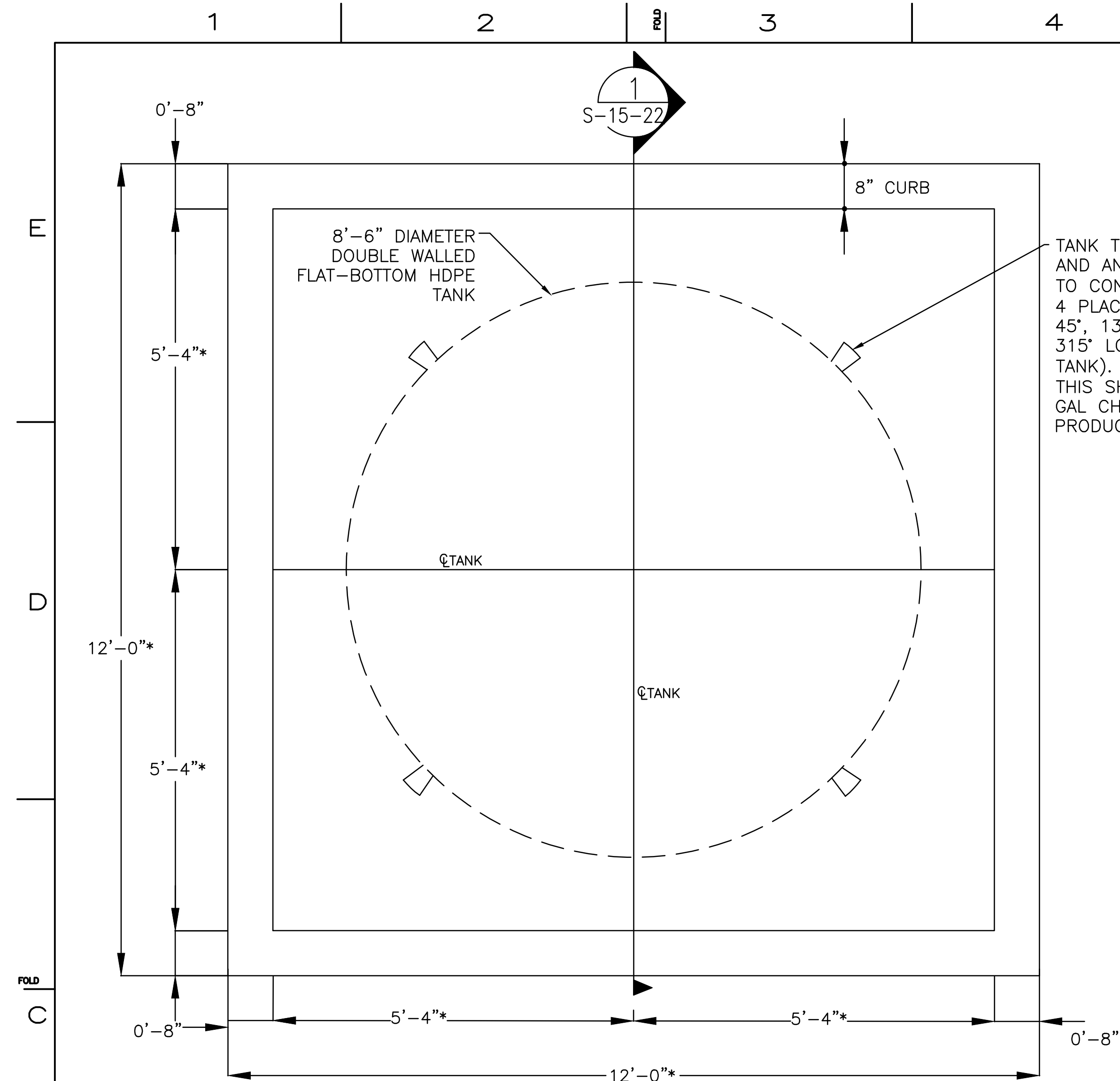


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3	11/16/18	ISSUED FOR CONSTRUCTION									AJW	MSL	MSL	RAO	
2	6/16/17	ISSUED FOR BID									AJW	MSL	JPB	RAO	
1	11/18/15	FINAL DESIGN									AJW	MSL	JPB	RAO	
0	2/2/15	SUPPLEMENTAL PRE-FINAL (90%) DESIGN									CMW	MSL	JPB	RAK	

APPROVED BY	SO
RAO	SUPV
	DSGN
	DWN
	CHKD
	OK
	DATE
	SCALES

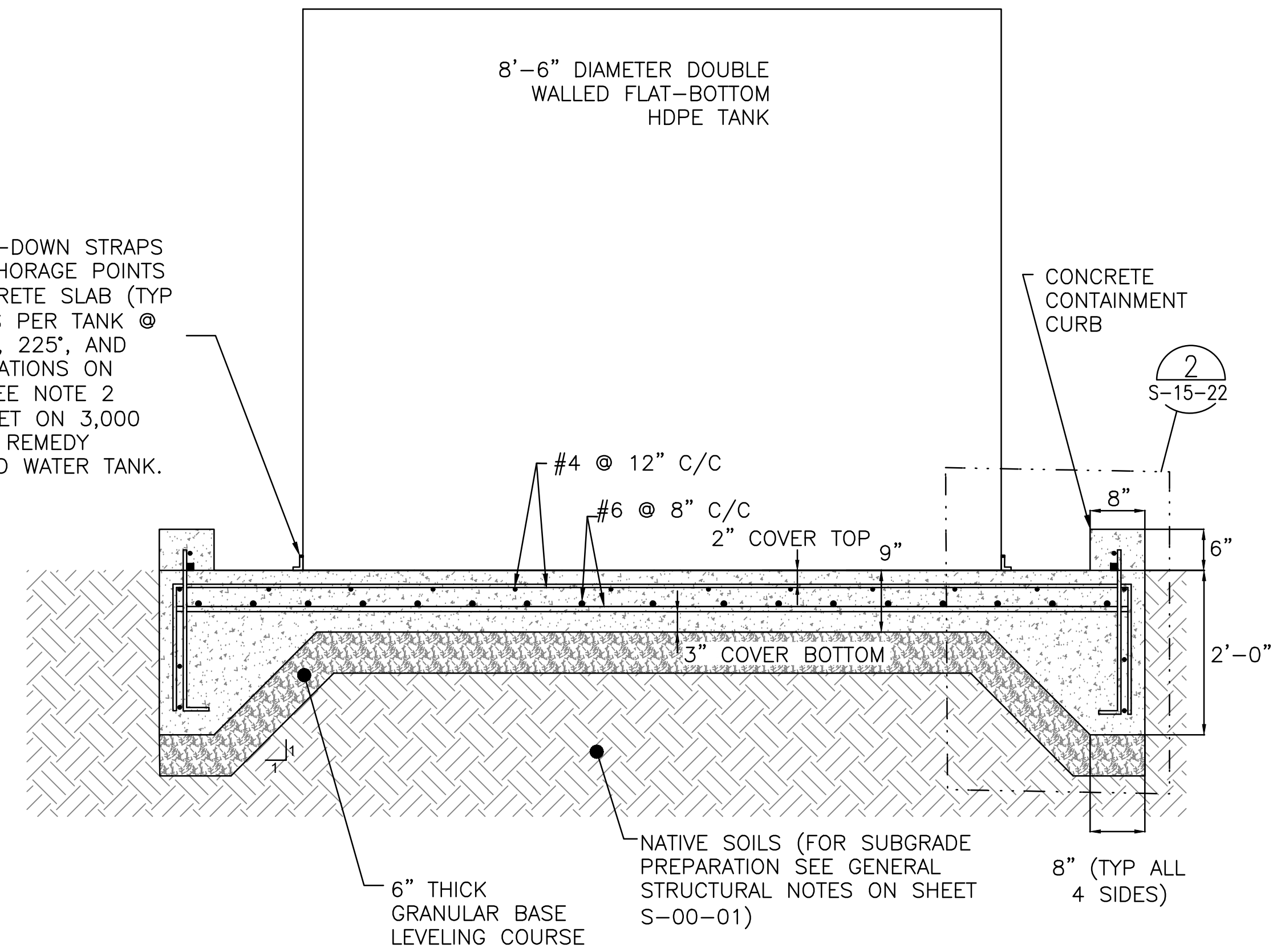
TOPOCK GROUNDWATER REMEDIATION PROJECT
DECONTAMINATION PAD PLANS AND DETAILS
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

MICROFILM	BILL OF MATL
	DWG LIST
	SUPSDS
	SUPSD BY
SHEET NO.	of SHEETS
S-15-20	3



DOUBLE WALL TANK PAD PLAN VIEW
3/4" = 1'-0"

TANK TIE-DOWN STRAPS AND ANCHORAGE POINTS TO CONCRETE SLAB (TYP 4 PLACES PER TANK @ 45°, 135°, 225°, AND 315° LOCATIONS ON TANK). SEE NOTE 2 THIS SHEET ON 3,000 GAL CHQ REMEDY PRODUCED WATER TANK.

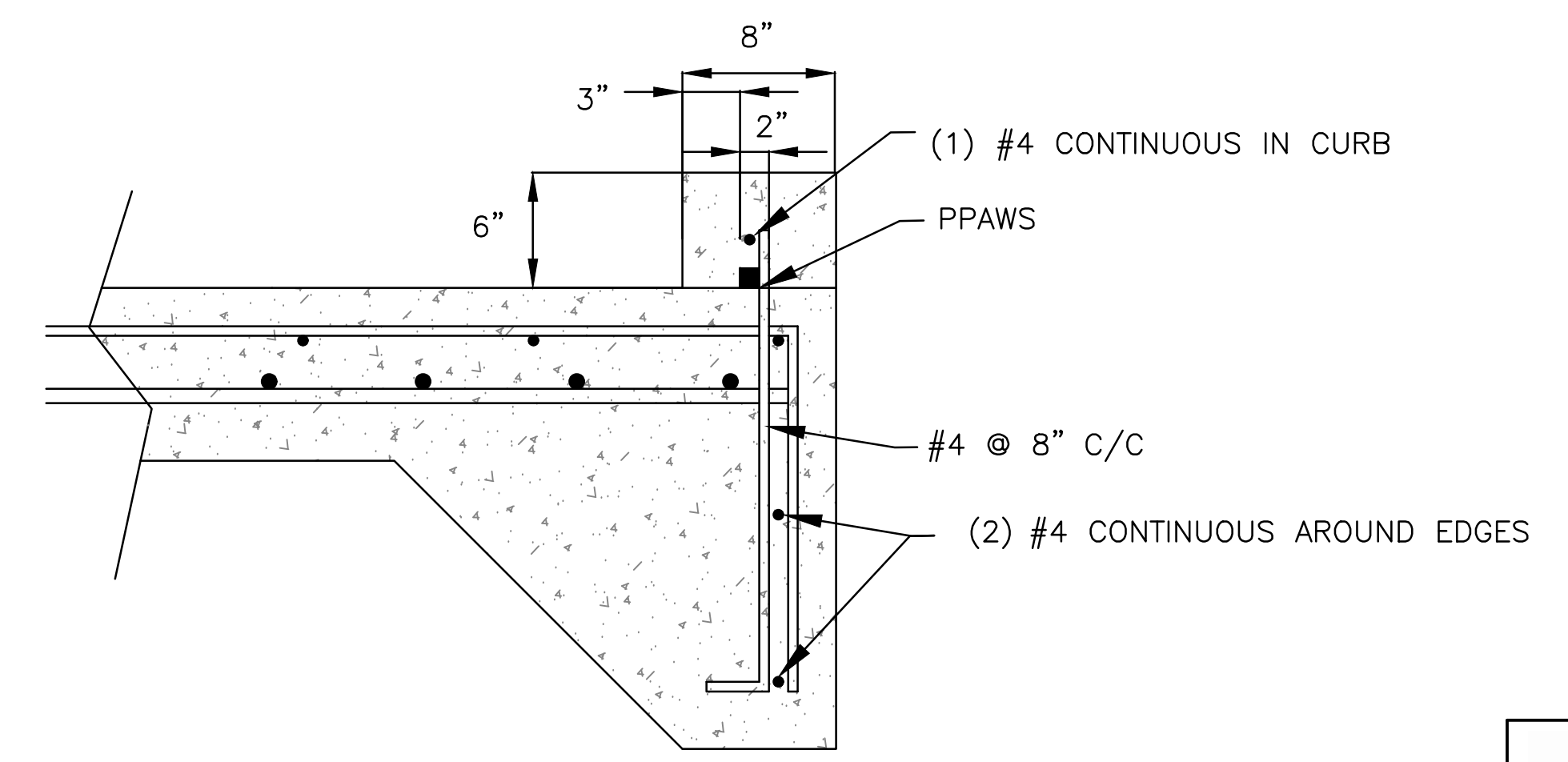


DOUBLE WALL TANK PAD SECTION VIEW
3/4" = 1'-0"

- NOTES:**
- REFER TO THE GENERAL STRUCTURAL NOTES AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - 3,000 GALLON CHQ REMEDY PRODUCED WATER TANK:
 - TANK TIE-DOWN STRAPS AND ANCHORAGE TO CONCRETE SLAB (FOR SEISMIC AND WIND LOADS SHOWN ON SHEET S-15-22) ARE TO BE DESIGNED AND PROVIDED BY TANK MANUFACTURER. HOWEVER, A MINIMUM OF 4 TIE-DOWN STRAPS (EQUALLY SPACED AROUND PERIMETER) TO BE PROVIDED. EACH TIE-DOWN STRAP TO HAVE A MINIMUM OF (1)-1/2" DIAMETER GALVANIZED ADHESIVE ANCHOR @ 4" MINIMUM EMBEDMENT (TANK MANUFACTURER TO DESIGN TIE-DOWN TO ADHESIVE ANCHOR CONNECTION). TANK MUST ALSO HAVE A MINIMUM OF (4)-L6x3 1/2 x 3/8 x 8" LONG CLIP ANGLES LLV WITH (1)-1/2" DIAMETER GALVANIZED ADHESIVE ANCHOR WITH 4" EMBEDMENT IN EACH CLIP ANGLE. SPACE 4 CLIP ANGLES EQUALLY AROUND TANK PERIMETER.
 - STRUCTURAL DESIGN OF FOUNDATION SLAB ASSUMES A 3,000 GALLON CHQ REMEDY PRODUCED WATER TANK OF THE FOLLOWING GEOMETRY:
 - APPROX 8'-6" DIA FLAT-BOTTOM TANK WITH FULL LEVEL AT APPROX 9'-7" ABOVE TOP OF SLAB AND TOP OF ROOF AT APPROX 12'-0" ABOVE TOP OF SLAB.
 - TANK CAPACITY = 3,000 GALLONS WITH LIQUID SPECIFIC GRAVITY SIMILAR TO WATER.
 - HDPE TANK CONSTRUCTION WITH EMPTY WEIGHT = 1,850#.

- CODE DESIGN LOADS:**
- DESIGN CODES: 2013 CALIFORNIA BUILDING CODE
2012 INTERNATIONAL BUILDING CODE
ASCE 7-10
 - RISK CATEGORY: IV
 - LIVE LOADS: 100 PSF
 - SNOW LOADING: N/A
 - FLOOD LOADS: N/A
 - WIND LOADS:
 - BASIC WIND SPEED (3 SECOND GUST) V = 115 MPH - ULTIMATE OR MINIMUM NET WIND PRESSURE, P_{net} = 20 PSF WHICHEVER IS GREATER
 - WIND EXPOSURE C
 - SEISMIC LOADS:
 - SEISMIC IMPORTANCE FACTOR - I_e = 1.5
 - SEISMIC DESIGN CATEGORY - D
 - SEISMIC SITE CLASS - D
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS - S_s = 0.230; S₁ = 0.120
 - SPECTRAL RESPONSE COEFFICIENTS - S_{ds} = 0.245; S_{d1} = 0.186
 - ANALYSIS PROCEDURE - ASCE 7-10 CHAPTER 15 SEISMIC REQUIREMENTS FOR NON-BUILDING STRUCTURES FOR TANKS

FOUNDATION DESIGN:
BASED UPON 2,000 PSF ALLOWABLE BEARING PRESSURE IN CONFORMANCE WITH CBC TABLE 1806.2 FOR CLASSIFICATION(S) SW, SP, SM, SC, GM AND/OR GC. A LICENSED CALIFORNIA PROFESSIONAL ENGINEER (UNDER THE SUPERVISION OF A LICENSED CALIFORNIA PROFESSIONAL ENGINEER EXPERIENCED IN GEOTECHNICAL ENGINEERING) SHALL INSPECT THE EXCAVATIONS AND CONFIRM THAT 2,000 PSF BEARING IS ALLOWED FOR THE FOUNDATIONS.
* CONCRETE DIMENSIONS TO BE VERIFIED PER APPROVED TANK MANUFACTURER'S SHOP DRAWINGS.



CURB DETAIL
1-1/2" = 1'-0"

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY	NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
	01/16/18	ISSUED FOR CONSTRUCTION													

APPROVED BY	SO
RAO	SUPV
	DSGN
	DWN
	CHKD
	OK
	DATE
	SCALES

TOPOCK GROUNDWATER REMEDIATION PROJECT
CHQ REMEDY PRODUCED WATER TANK PAD PLAN AND SECTION
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM

BILL OF MATL

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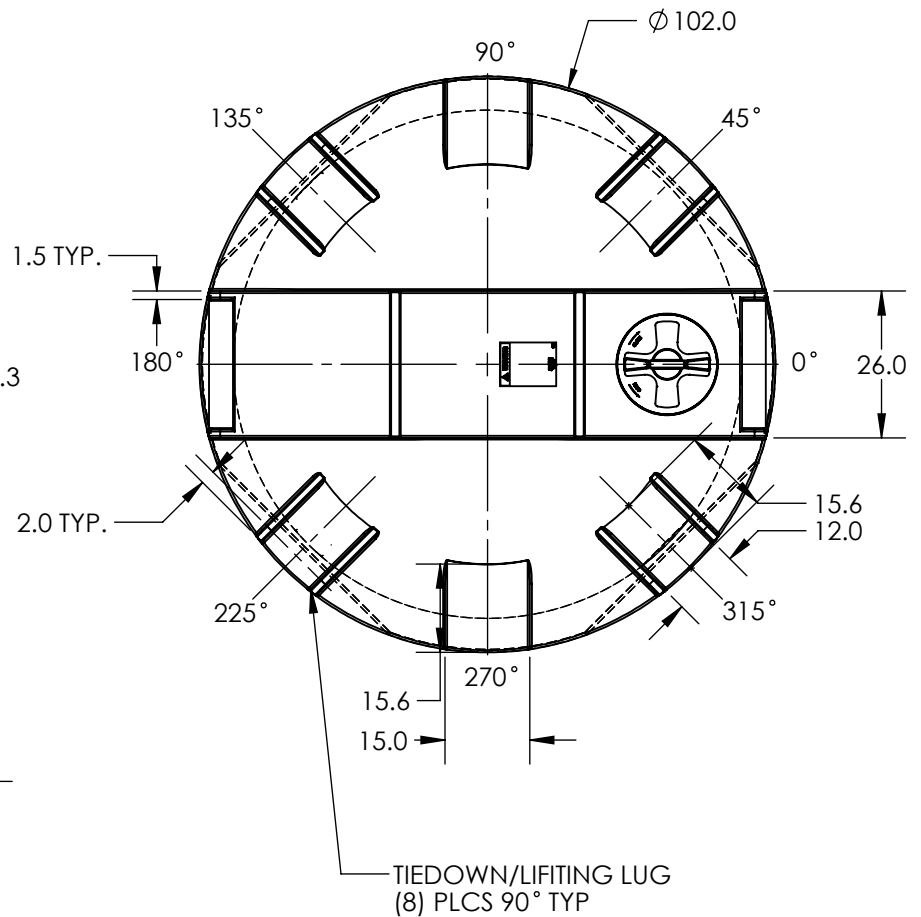
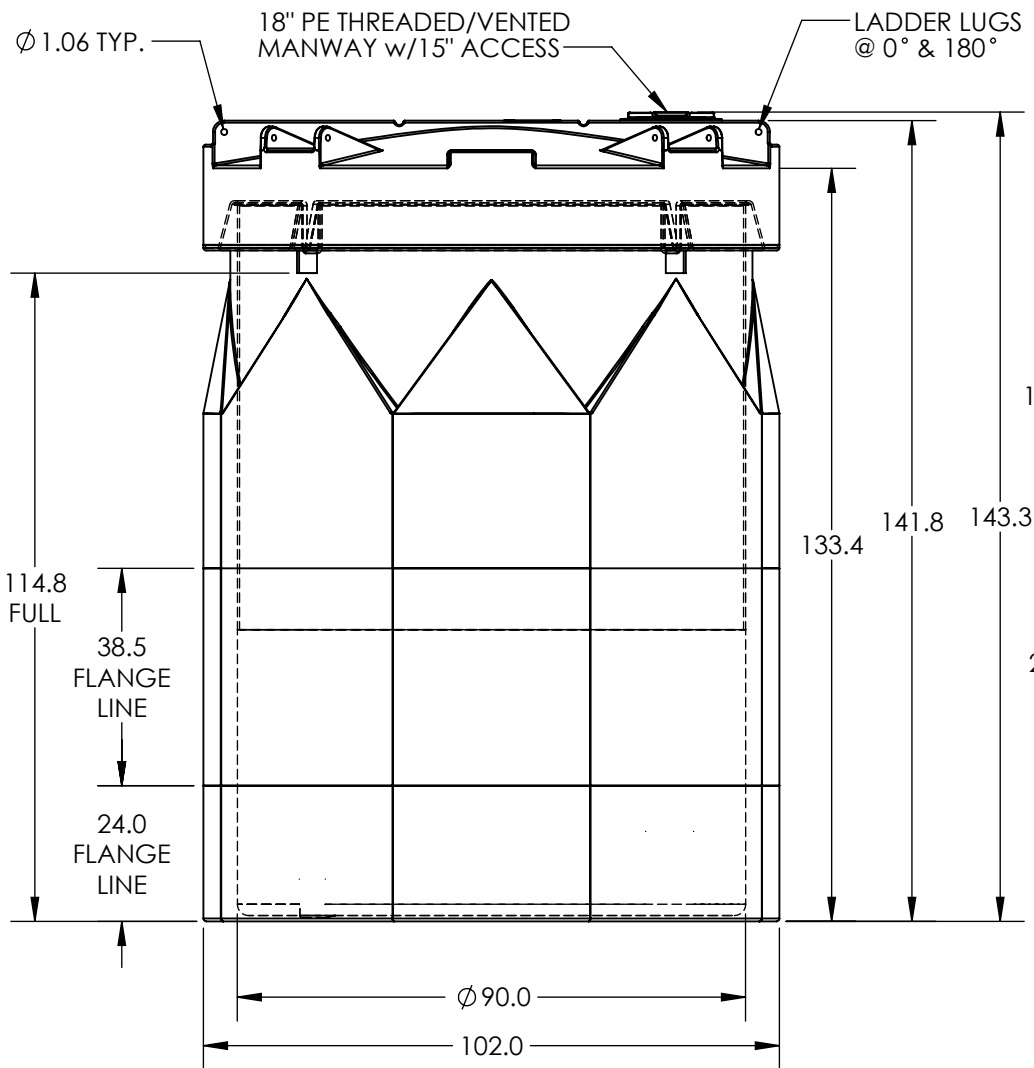
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***ALL EXTERNAL PIPING MUST BE INDEPENDENTLY SUPPORTED.**
***ONLY BASE FITTINGS TO BE LEFT INSTALLED AT TIME OF SHIPMENT PER SII PROCEDURE.**
***Consult Snyder's Guidelines for Use and Installation prior to delivery.**
 Available on-line at <http://www.snyderindustriestanks.com/Technical>
ALL DIMENSIONS ARE IN INCHES, NOMINAL, & SUBJECT TO CHANGE WITHOUT NOTICE.
ALL DIMENSIONS ON ROTATIONAL MOLDED PARTS ARE SUBJECT TO A ± 3% TOLERANCE.

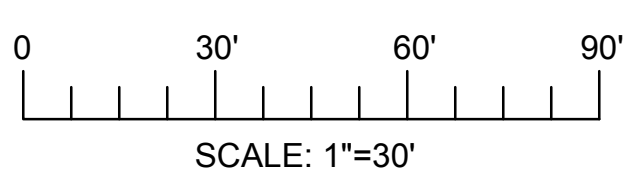
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STATUS:	Released	ET3	10/6/2014		ASM TK 3000 CP X 90	A
© SNYDER INDUSTRIES INC., 2014				(402) 467-5221 www.snydernef.com	PART NO.	ENG. ID.
<small>ALL DIMENSIONS, DESIGNS, AND INFORMATION ON THIS PRINT MUST BE CONSIDERED PROPRIETARY TO SNYDER INDUSTRIES, INC. AND MAY NOT BE USED, COPIED, OR DISTRIBUTED WITHOUT WRITTEN PERMISSION OF AN OFFICER (OR HIS AGENT) OF THE FIRM.</small>					5590000N & 5520000N	A003553
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Drawings from Approved Final Design (November 2015)

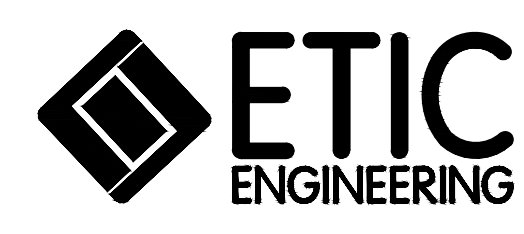
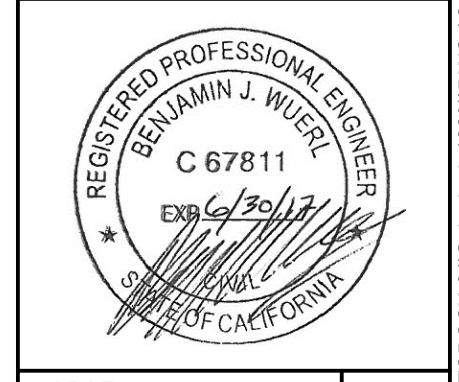


LEGEND:
 - - - - - FENCE LINE

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- FINAL DESIGN -
 FOR AGENCY
 APPROVAL ONLY



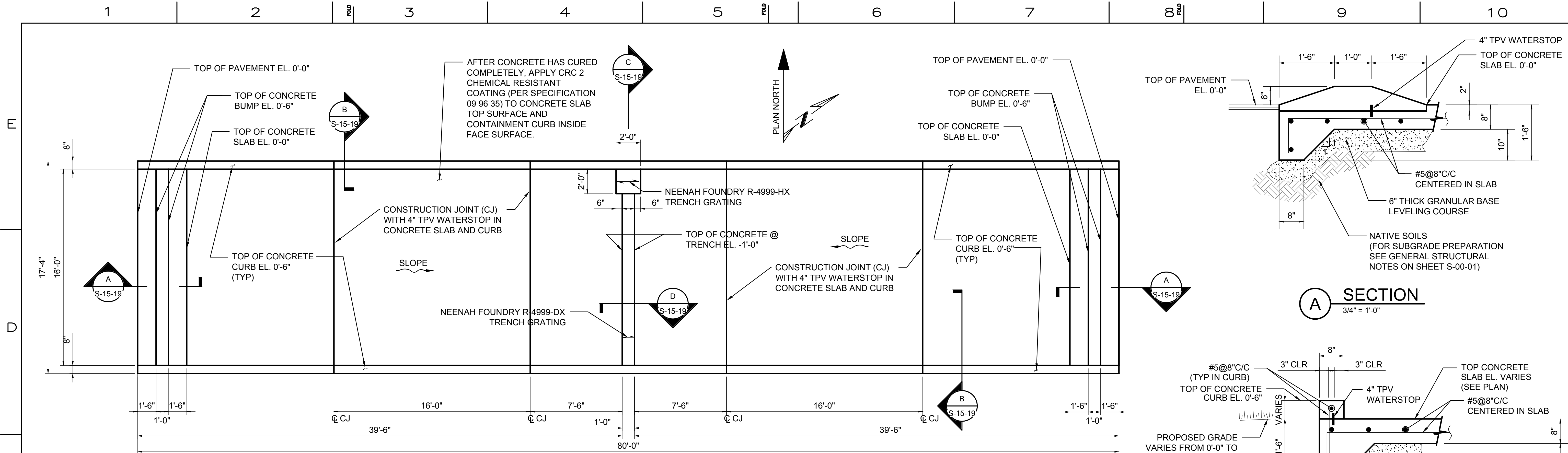
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1	8/5/15	90% RTC RESOLUTION													
0	2/2/15	SUPPLEMENTAL PRE-FINAL (90%) DESIGN													

APPROVED BY	SO
RAO	SUPV
	DSGN
	DWN
	CHKD
	OK
	DATE
	SCALES

TOPECO GROUNDWATER REMEDIATION PROJECT
CONSTRUCTION HEADQUARTERS YARD PLAN
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

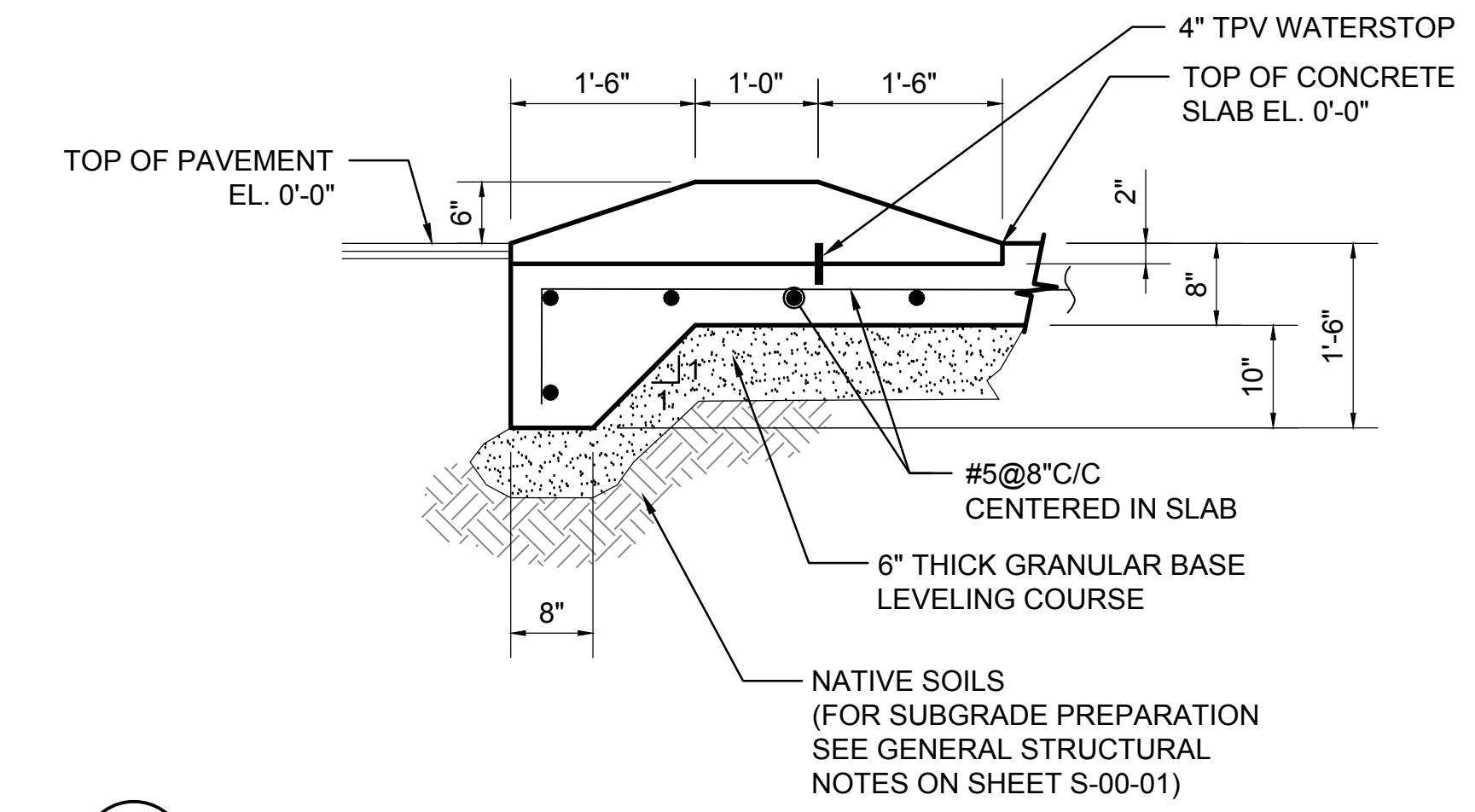
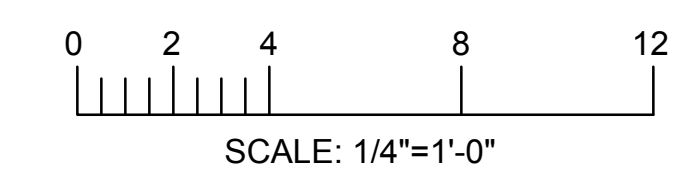
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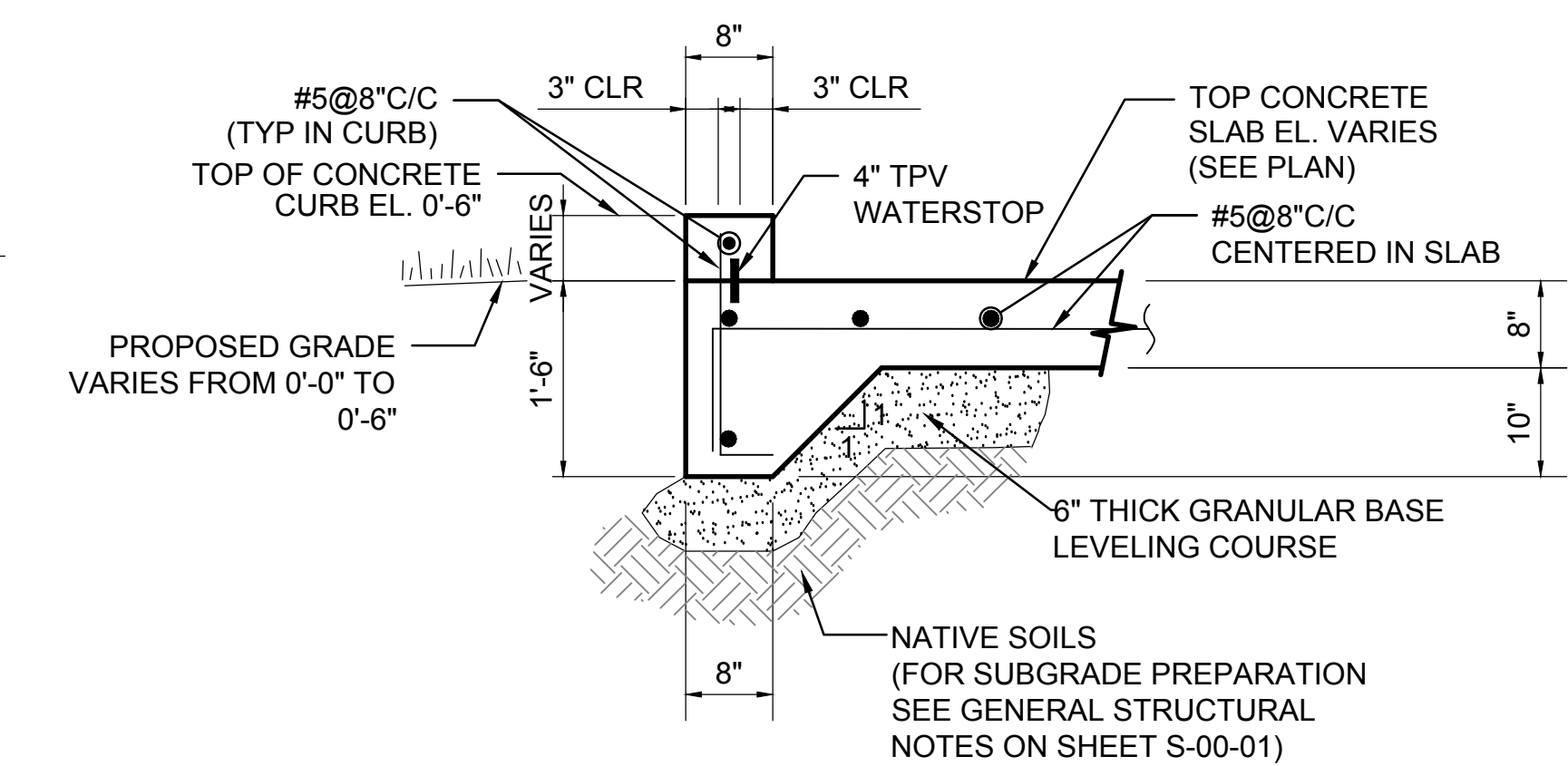


* TO BE VERIFIED BY CONTRACTOR FOR APPROVED MANUFACTURER'S STORAGE TANK SHOP DRAWINGS

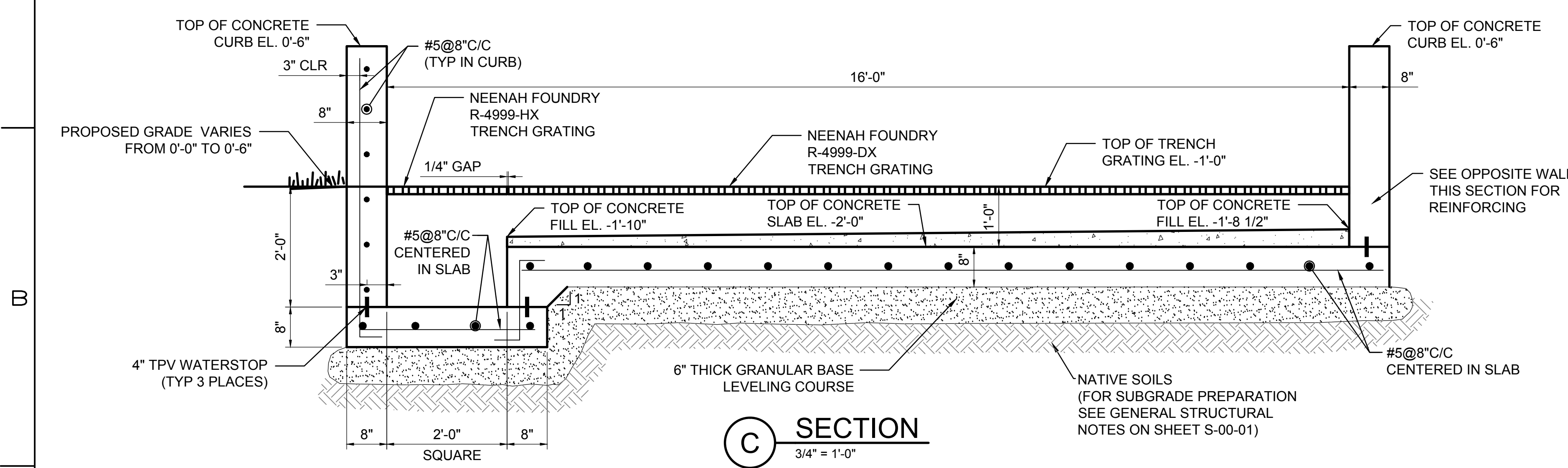
CHQ DECONTAMINATION PAD
1/4" = 1'-0"



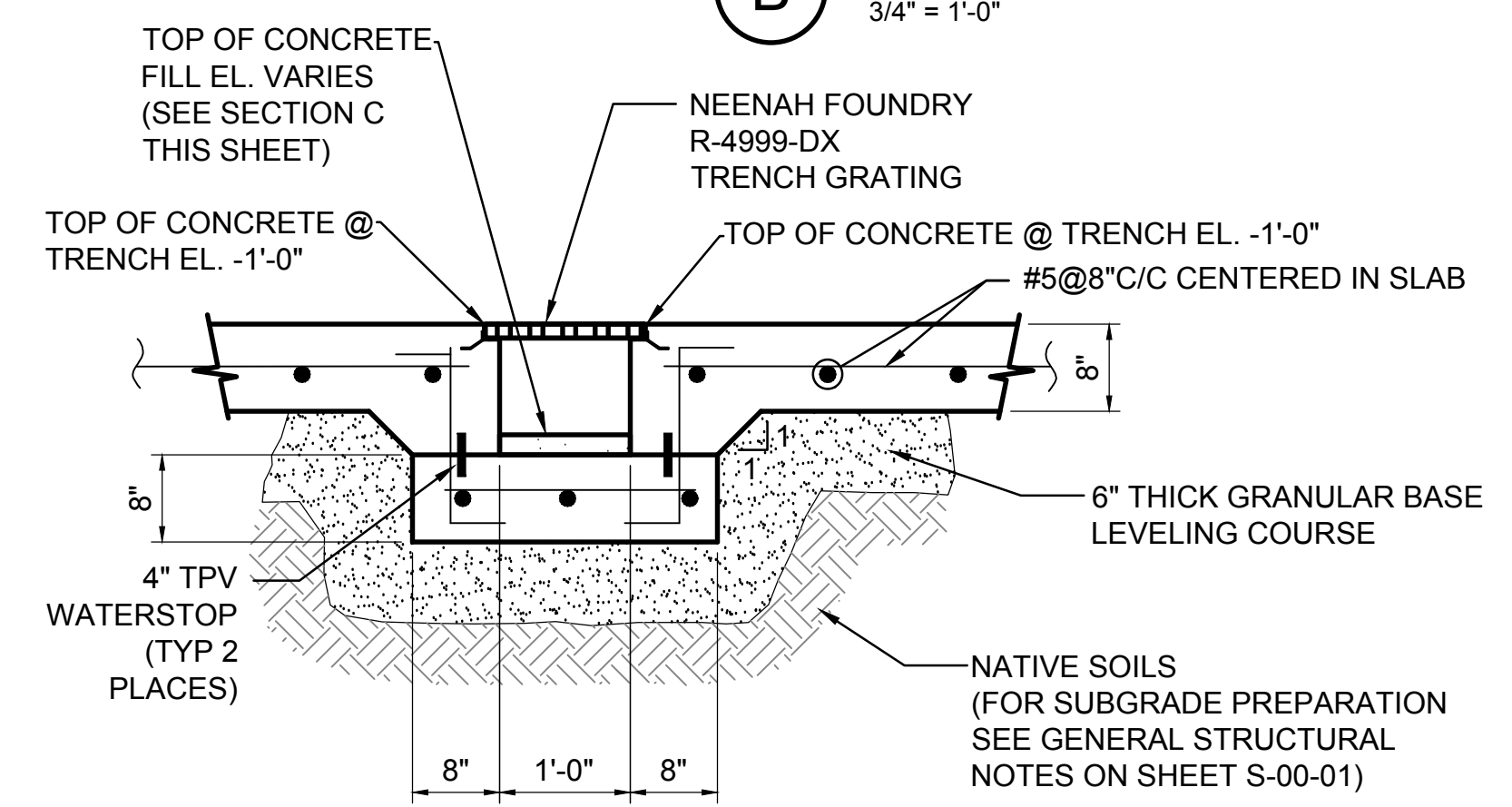
A SECTION
3/4" = 1'-0"



B SECTION
3/4" = 1'-0"



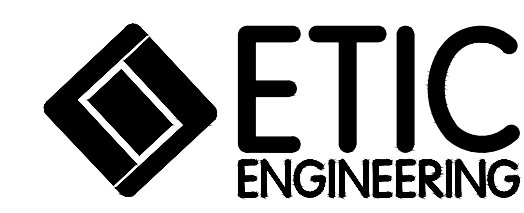
C SECTION
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REVISIONS		REVISIONS													
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0	2/2/15	SUPPLEMENTAL PRE-FINAL (90%) DESIGN													

APPROVED BY: RAO

SO SUPV DSGN DWN CHKD OK DATE SCALES

TOPOCK GROUNDWATER REMEDIATION PROJECT

DECONTAMINATION PAD PLANS AND DETAILS

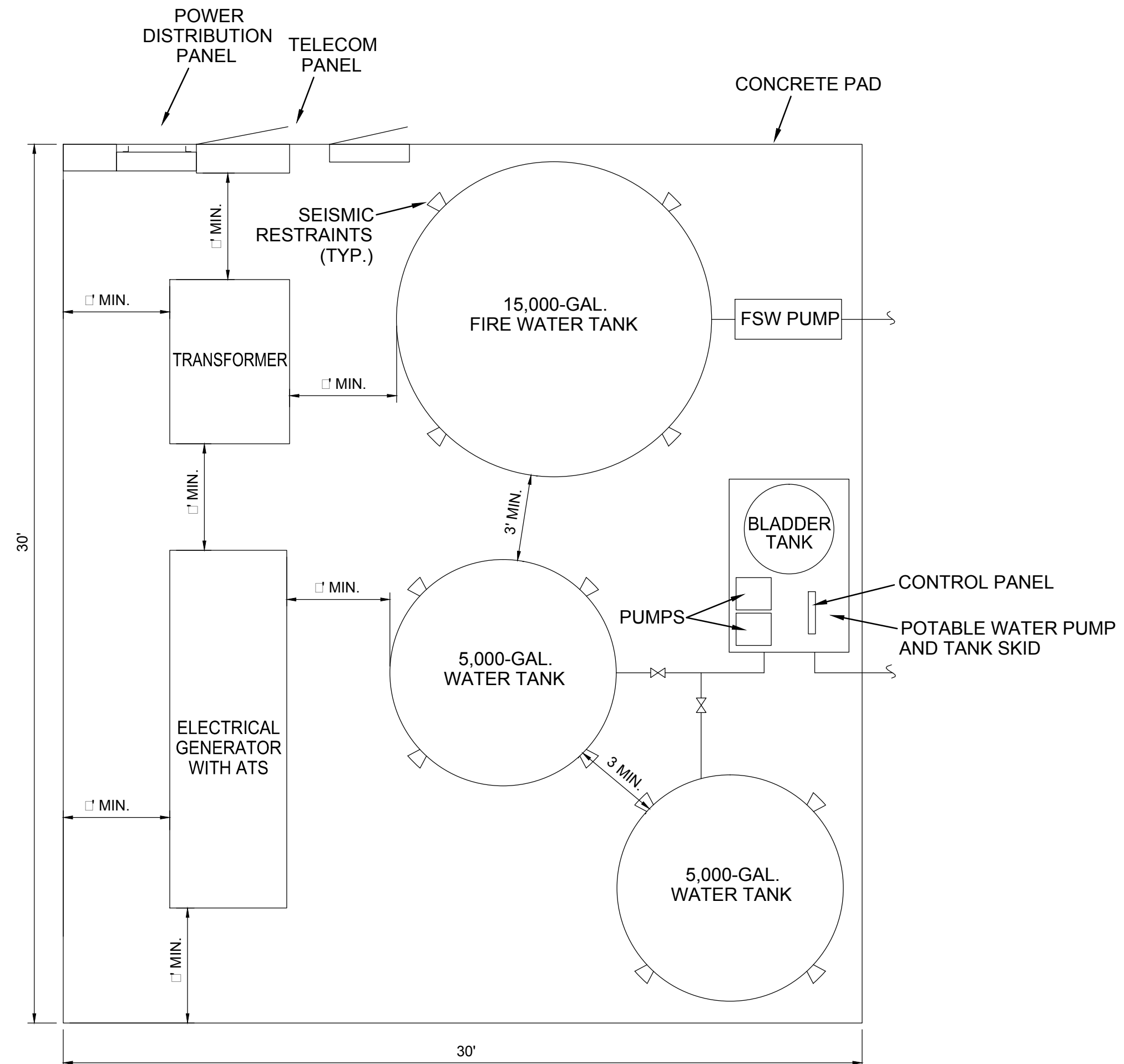
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM

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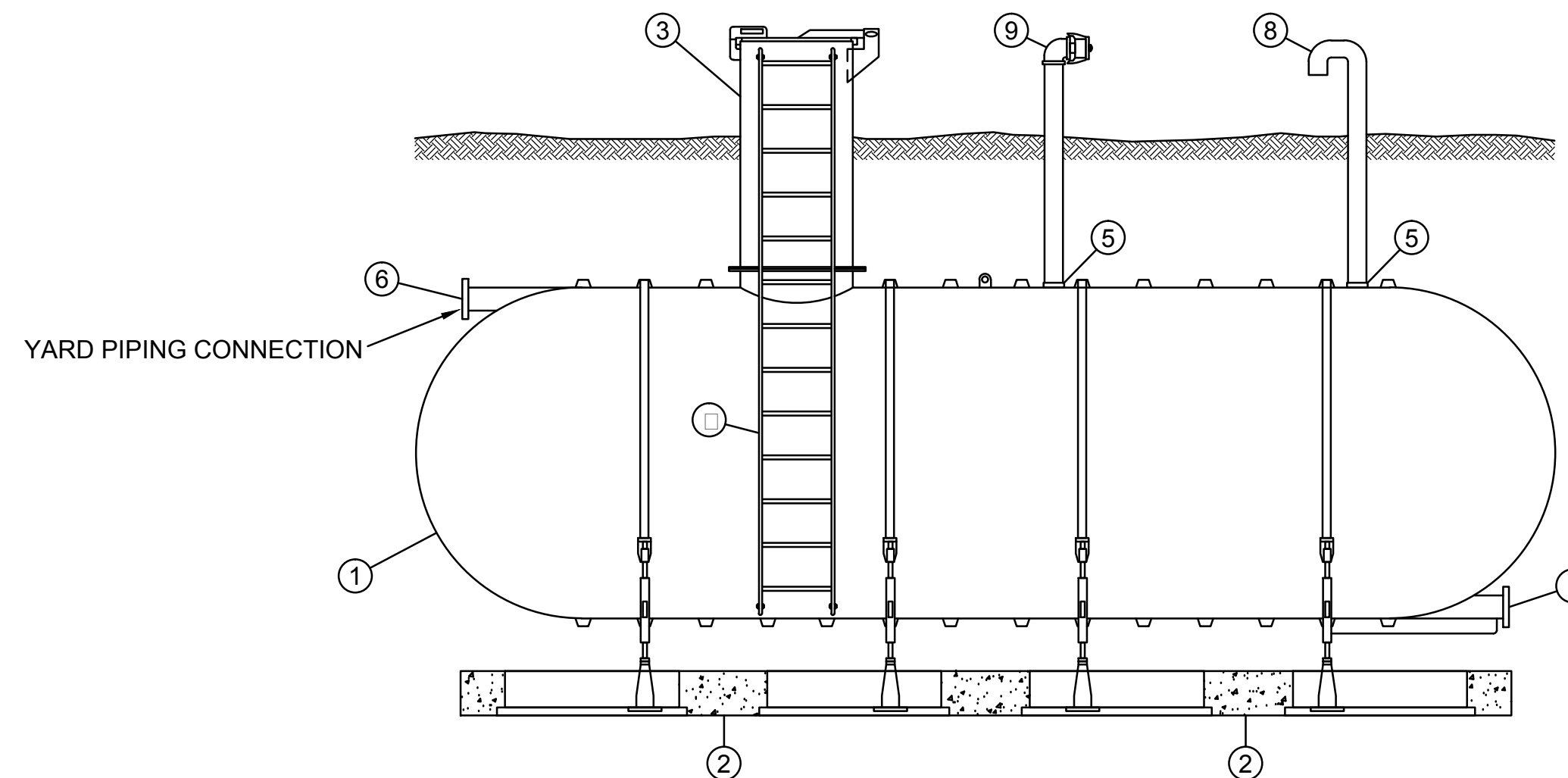
SHEET NO. of SHEETS
S-15-20 REV 1

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1 UTILITY PAD LAYOUT
1/4"=1'-0"
C-15-01

NOTES:
ATS - AUTOMATIC TRANSFER SWITCH
FSW - FIRE SUPPRESSION WATER



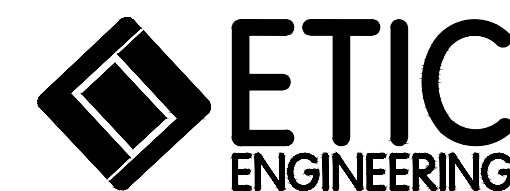
NO.	DESCRIPTION
1	FRP TANK
2	PRECAST DEADMAN SYSTEM W/ HOLD DOWN STRAP AND TURNBUCKLE TOP (UV PROTECTED)
3	30" MANWAY EXTENSION ACCESS WITH HINGED LOCKABLE TOP (UV PROTECTED)
	NSF APPROVED FRP LADDER
5	1" NPT SERVICE FITTING
6	6" NSF APPROVED TANGENTIAL NOZZLE
	6" NSF APPROVED TANGENTIAL FULL BOTTOM DRAIN NOZZLE
8	1" VENT PIPE WITH GOOSENECK AND BUG SCREEN
9	1" AUXILIARY FILL W/CAM LOCK CONNECTION

NOTES:
1. TANKS WILL BE BURIED WITH A MINIMUM OF 12" OF BACKFILL ABOVE AND BENEATH THE TANK.
2. TANK SURFACE MUST BE BLOCKED FROM TRAFFIC CROSSING.
3. TANKS WILL BE ANCHORED USING A VENDOR-SUPPLIED ANCHORING SYSTEM.
CONTACTOR TO CONFIRM MANUFACTURER'S TANK INSTALLATION DETAILS.

2 BURIED STORAGE TANK
NO SCALE
C-15-01

TANK ID	TANK DIAMETER	TANK LENGTH
1,000-GAL. REMEDY PRODUCED WATER TANK	8'	11'-6 1/2"
10,000-GAL. SEWAGE TANK	8'	31'-6 1/2"

- FINAL DESIGN -
FOR AGENCY
APPROVAL ONLY



NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY	NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
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APPROVED BY	SO
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TOPOCK GROUNDWATER REMEDIATION PROJECT
**CONSTRUCTION HEADQUARTERS
CIVIL DETAILS**
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

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Future Activity Allowance Determination Matrix for Work Variance Request (WVR)

Work Variance Request No. 3

Date: 12/17/18

Future Activity Allowance is an activity that is not considered in the remedy design but necessary to support the project objectives. Future Activity Allowance is a Material Deviation which is defined in the final groundwater remedy design as: Material Deviation means a change or correction required to prevent a condition that would (1) render the approved design non-compliant with codes, regulations, and /or engineering standard of practices, (2) render planned well locations and/or constructions fail to meet the project objectives, (3) cause significant schedule delay, and/or (4) cause a significant increase in costs. (CH2M Hill, 2015)

According to the SEIR Project Description, "The inclusion of the Future Activity Allowance is not intended to account for minor adjustments (work variances) of the remedy design during construction resulting from field conditions. DTSC's objective for the inclusion of the Future Activity Allowance is to consider the potential impacts of needing to take additional but previously unforeseen activities that were not contemplated as part of the Final Remedy Design but are activities that would improve the performance of the remedy, or are necessary to gather additional information on the remedy performance, and/or aid in the transition of the active remedy to monitored natural attenuation." (ESA, 2017)

1. Are all components of the WVR in the approved final design as reviewed in the SEIR?

Yes No

2. Are all components of the WVR staying within an infrastructure alignment in the approved final design?

Yes No

If answers to both 1 and 2 are Yes, STOP – action is not Future Activity Allowance

3. For components not in approved final design, will the WVR require new access not identified for use in the final design and create new ground disturbance beyond those anticipated in final design?

Yes No

If answer is No, STOP – action is not Future Activity Allowance. If Yes, proceed...

4. For components not in approved final design and require new access or new ground disturbance, will the ground disturbing activity be outside the 2018 SEIR project boundary?

Yes No

If answer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be considered after DTSC completes CEQA determination.

5. For WVR requiring new access and/or new ground disturbance, but project components are in approved final design and within the 2018 SEIR project boundary, is the variance necessitated by field conditions which are outside the control of the operator (e.g. refusal during drilling, unstable ground, existing design jeopardizes health and safety, modification to avoid archaeological resource, existing design does not conform to engineering standards, etc.)?

Yes No

If answer is No or otherwise explained in Section 7 below, action is Future Activity Allowance, follow Communication Protocol for Future Activities Allowance, Exhibit 3 to the Statement of Decision and Resolution of Approval. If the answer is Yes, action is Future Activity Allowance, and DTSC will work with

Future Activity Allowance Determination Matrix

WVR No.

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Tribes to meet the time sensitivity of the WVR. Regardless of response, because of new access and/or new ground disturbance, WVR action may be subject to Federal Consultation. Inquire with BLM to determine whether there is a need to follow Consultation during Construction protocol.

6. Does the addition of WVR cause an exceedance from infrastructure limits specified in the 2018 certified Final SEIR (Table 3-1 for well boreholes; Table 3-2 for pipeline trenches, electrical/communication conduit, roadway improvements, or sizes of buildings and structures; Table 3-4 for volume of soil disturbance and Table 3-5 for water usage)?

Yes No


If answer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be considered after DTSC completes a CEQA checklist to determine if there are new or substantially more significant environmental impacts than disclosed in the 2018 SEIR.

7. Other extenuating circumstances or information for FAA considerations: No

Yes – provide information and/or justification

Conclusion: WVR No. 3

is not a FAA is a FAA

Signature of DTSC reviewer: 

Date: 1/4/2019