



FEE: \$50.00  
SITE PLAN  
(WAIVED 2013 PER  
RESOLUTION #12-72)

## CITY OF VALDEZ

### APPLICATION FOR CONDITIONAL USE PERMIT

APPLICATION NUMBER	DATE
NAME OF APPLICANT	Aug 8, 2019
ADDRESS OF APPLICANT	Valdez Petroleum Terminal
	402 W. Egan
	Valdez, AK
DAYTIME PHONE	(907) 835-4207
SIGNATURE	Josh V. Yewin
LEGAL OWNER	Petro Star Inc
ADDRESS	3900 C Street, Suite 802
	Anchorage, AK 99503
PHONE NUMBER	(907) 339-6630 direct
STREET ADDRESS:	
LEGAL DESCRIPTION:	Tract 1, Port Valdez Subdivision
CURRENT ZONING	Light Industrial
PROVISIONS OF ZONING ORDINANCE REQUIRING A VARIANCE (I.E. SETBACK, LOT COVERAGE, ETC.)	
USE REQUESTED	Fuel Storage tank farm & transfer facility
	Vapor Control @ Truck rack
TEMPORARY	HOW LONG
PERMANENT	X

Please answer the following questions:

How will the proposed use conform to the present and future development of the area? What will be its effect on present and future development?

*Existing fuel storage & transfer facility*

Why is there a need in the area for the Conditional Use requested? Wherever possible, substantiate this statement with factual data.

*Install Vapor Combustion Unit (VCH)  
to control VOC emissions @ existing  
truck rack for gasoline loading*

Why is this site especially suited to the Conditional Use proposed?

*Existing tank farm & truck rack*

Why would the Conditional Use have no detrimental effects on surrounding property and uses?

*Installation of Vapor Combustion Unit @  
existing truck rack for gasoline loading*

Attach or include any other information you feel is relevant to this application

*see attached project description and site map*

## **Project Description**

The objective of this project is installation of a Vapor Combustion Unit (VCU) and associated equipment at the Valdez Petroleum Terminal (VPT) located at 402 Egan Avenue in Valdez, Alaska. The VCU will allow the VPT to incinerate vapors when filling trucks at the existing truck loading rack. The trucks will connect to the vapor pipeline that will extend to the VCU. Controls will not allow filling of the trucks until the VCU is fully operational and all other permissive(s) have been met. The VCU will lower the overall emissions for the terminal.

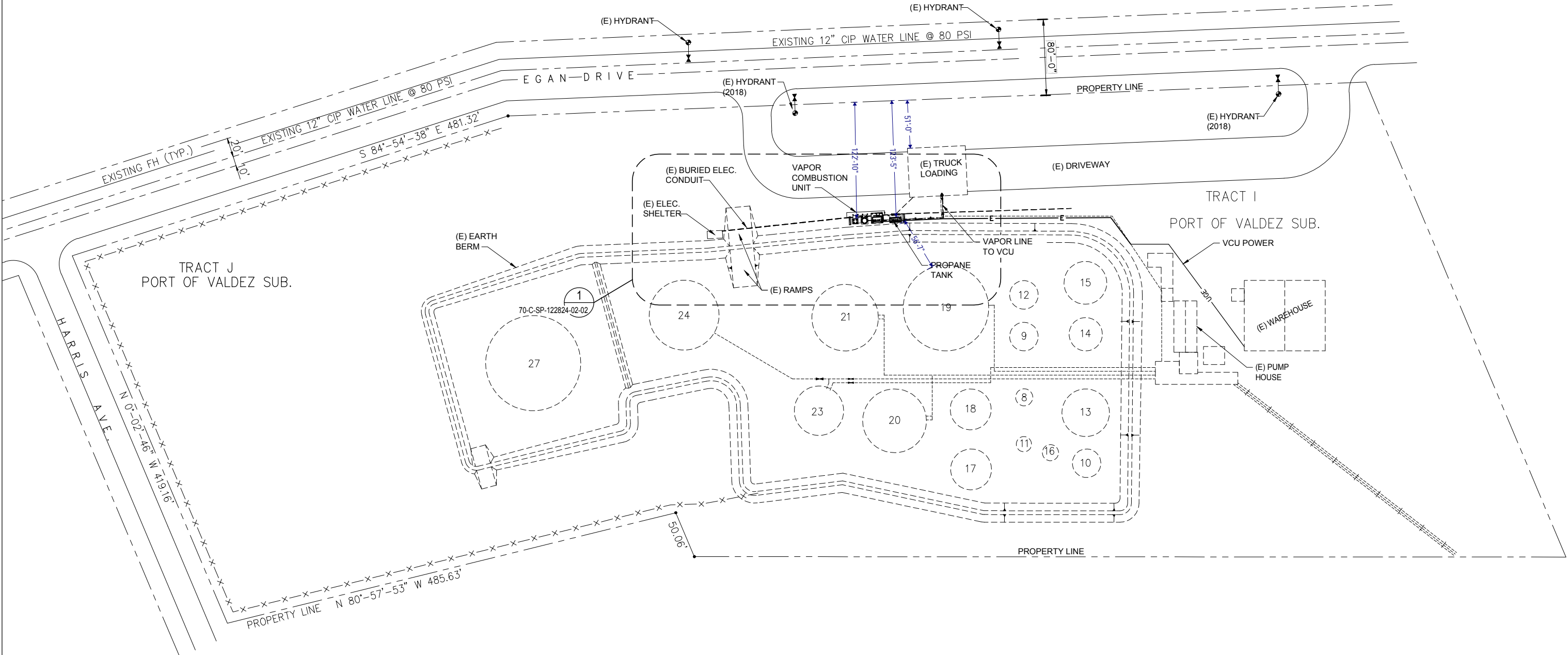
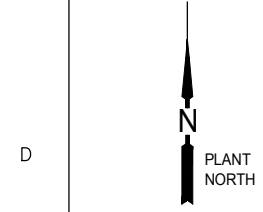
The VCU is designed and provided by John Zink (JZ). The VCU installation addition will be supplied with the following items and details:

- Vapor Piping supported and routed from the Truck Rack to the VCU Inlet to the existing tie-in point.
- Support slab for VCU Piping Skid and Foundation for VCU Stack and blower.
- 500-gallon Propane Tank Support Slab and Protection.
- Electrical Power and Controls for VCU and tie-in to the existing Accuload Truck Rack Controls.

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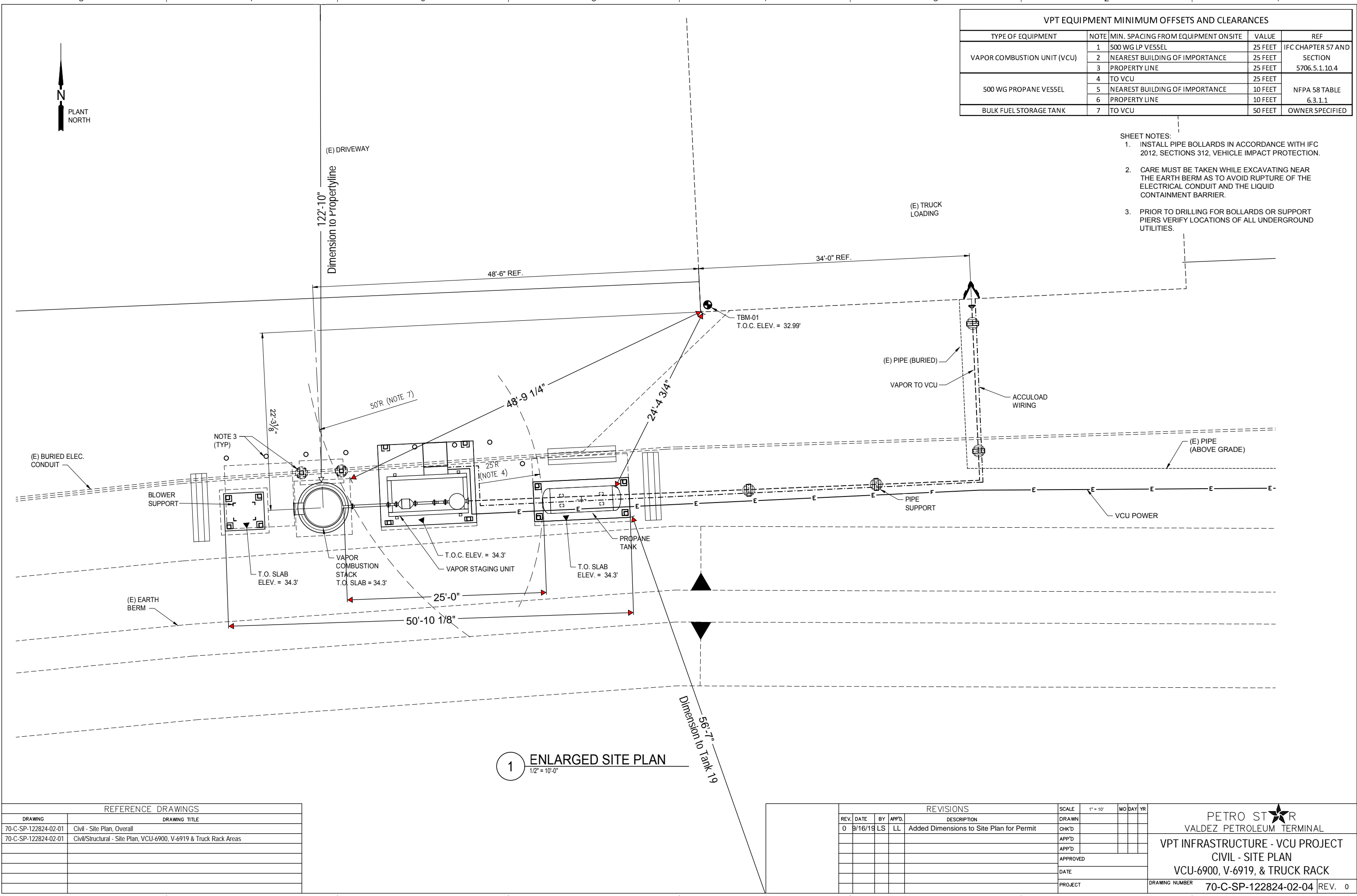


REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE
70-C-SP-122824-02-01	Civil - Site Plan, Overall
70-C-SP-122824-02-01	Civil/Structural - Site Plan, VCU-6900, V-6919 & Truck Rack Areas

REVISIONS						SCALE	1" = 50'	MO	DAY	YR	PETRO STAR VALDEZ PETROLEUM TERMINAL VPT INFRASTRUCTURE - VCU PROJECT CIVIL - SITE PLAN OVERALL FACILITY	
REV.	DATE	BY	APP'D.	DESCRIPTION		DRAWN						
0	9/16/19	LS	LL	Added Dimensions to Site Plan for Permit		CHK'D						
						APP'D						
						APP'D						
						APPROVED						
						DATE					DRAWING NUMBER 70-C-SP-122824-02-03	
						PROJECT						

REV. 0

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VPT EQUIPMENT MINIMUM OFFSETS AND CLEARANCES				
TYPE OF EQUIPMENT	NOTE	MIN. SPACING FROM EQUIPMENT ONSITE	VALUE	REF
VAPOR COMBUSTION UNIT (VCU)	1	500 WG LP VESSEL	25 FEET	IFC CHAPTER 57 AND SECTION 5706.5.1.10.4
	2	NEAREST BUILDING OF IMPORTANCE	25 FEET	
	3	PROPERTY LINE	25 FEET	
500 WG PROPANE VESSEL	4	TO VCU	25 FEET	NFPA 58 TABLE 6.3.1.1
	5	NEAREST BUILDING OF IMPORTANCE	10 FEET	
	6	PROPERTY LINE	10 FEET	
BULK FUEL STORAGE TANK	7	TO VCU	50 FEET	OWNER SPECIFIED

- SHEET NOTES:
1. INSTALL PIPE BOLLARDS IN ACCORDANCE WITH IFC 2012, SECTIONS 312, VEHICLE IMPACT PROTECTION.
  2. CARE MUST BE TAKEN WHILE EXCAVATING NEAR THE EARTH BERM AS TO AVOID RUPTURE OF THE ELECTRICAL CONDUIT AND THE LIQUID CONTAINMENT BARRIER.
  3. PRIOR TO DRILLING FOR BOLLARDS OR SUPPORT PIERS VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES.

REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE
70-C-SP-122824-02-01	Civil - Site Plan, Overall
70-C-SP-122824-02-01	Civil/Structural - Site Plan, VCU-6900, V-6919 & Truck Rack Areas

REVISIONS						SCALE	1" = 10'	MO	DAY	YR	<div>PETRO STAR VALDEZ PETROLEUM TERMINAL</div> <div>VPT INFRASTRUCTURE - VCU PROJECT</div> <div>CIVIL - SITE PLAN</div> <div>VCU-6900, V-6919, &amp; TRUCK RACK</div> <div>DRAWING NUMBER 70-C-SP-122824-02-04</div> <div>REV. 0</div>	
REV.	DATE	BY	APP'D.	DESCRIPTION		DRAWN						
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						APP'D						
						APP'D						
						APPROVED						
						DATE						
						PROJECT						



THE STATE  
of **ALASKA**  
GOVERNOR MICHAEL J. DUNLEAVY

**Department of Public Safety**

DIVISION OF FIRE AND LIFE SAFETY  
Plan Review Bureau - Anchorage

5700 East Tudor Road  
Anchorage, Alaska 99507-1225  
Main: 907.269.2004  
Fax: 907.269.0098

November 07, 2019

Lisa Lewis  
Petro Star Inc  
3900 C Street Suite 802  
Anchorage, AK 99503

SUBJECT: Petro Star Tank Farm - Fuel System Project  
CITY: Valdez  
PLAN REVIEW: 2019Anch1770  
OCCUPANCY: Tank  
2012 INTERNATIONAL BUILDING AND FIRE CODE

Dear Lisa Lewis:

Plans for the Fuel System Project have been reviewed by this office for conformity with the State Fire Safety Regulations and are hereby approved. Enclosed is a certificate of approval that must be posted on the premises until the project has been completed according to the approved plans and all regulations have been adhered to.

Approval of submitted plans is not approval of omissions or oversights by this office or noncompliance with any applicable regulations of the Municipal Government.

It must be understood that the inclusion of and compliance with State Fire Safety Regulations does not preclude the necessity of compliance with the requirements of local codes and ordinances.

If we can be of further assistance in this matter, please feel free to contact us at the address above.

Sincerely,

A handwritten signature in dark ink, appearing to read "SEA", is written over a faint map of Alaska.

Sean Armstrong  
Fire Protection Specialist

Enclosure: Approval Certificate



State of Alaska  
Office of the State Fire Marshal  
Plan Review

This is to certify that the plans for this building were reviewed by the *State Fire Marshal* on November 07, 2019 for conformance with AS 18.70.010 -- 100; 13 AAC 50.027.

This certificate shall be posted in a conspicuous place on the premises named Petro Star Tank Farm and shall remain posted until construction is completed.

**NOTICE:** Any changes or modifications to the approved plans **must** be resubmitted for review by the *State Fire Marshal*.

Plan Review #: **2019Anch1770**

By: 

Authority: AS 18.70.080

Form: 12-741

(6/01)

**Fuel System Project ONLY**

Sean Armstrong  
Fire Protection Specialist



VALDEZ PETROLEUM TERMINAL  
VPT INFRASTRUCTURE - VCU PROJECT

VALDEZ, ALASKA  
SEPTEMBER 12, 2019

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ISSUED FOR CONSTRUCTION  
CIVIL / STRUCTURAL



CONSULTING ENGINEERS  
137 E. ARCTIC  
PALMER, AK 99645  
(907) 745-6988

GNE PROJECT #309090





GENERAL CIVIL NOTES:

## SURVEYS

1. ALL CONSTRUCTION SURVEYS SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A SURVEYOR LICENSED IN THE STATE OF ALASKA.

2. AN ACCURATE METHOD OF HORIZONTAL CONTROL SHALL BE ESTABLISHED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL MAINTAIN THE CONTROL SYSTEM THROUGHOUT THE PROJECT. IF AT ANY TIME THE METHODS UTILIZED FAIL TO PROVIDE ACCURATE LOCATION THE CONTRACTOR MAY BE REQUIRED TO SUSPEND WORK. THE CONTRACTOR SHALL LAY OUT THE WORK FROM THE OWNER ESTABLISHED VERTICAL CONTROL POINTS AND CONTRACTOR ESTABLISHED HORIZONTAL CONTROL POINTS AND SHALL BE RESPONSIBLE FOR ALL REQUIRED MEASUREMENTS TAKEN FROM THESE POINTS.

3. THE CONTRACTOR SHALL SUPPLY ALL STAKES, RANGE MARKERS, EQUIPMENT AND LABOR AS REQUIRED TO LAYOUT THE WORK FROM CONTROL POINTS AT THE CONTRACTORS EXPENSE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL THE CONTROL POINTS UNTIL AUTHORIZED TO REMOVE THEM. IF SUCH POINTS ARE DESTROYED OR DISTURBED THEY SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

## UTILITY LOCATE

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO STARTING ANY SITE WORK. USE CAUTION WHEN WORKING AROUND OVERHEAD AND UNDERGROUND UTILITIES.

## SITE PREPARATION

1. STOCKPILING OF USABLE MATERIAL MUST TAKE PLACE IN THE WORK LIMITS OR IN THE CONTRACTOR'S STAGING AREA. USABLE EXCAVATION THAT HAS BEEN STOCKPILED ON-SITE SHALL BE COVERED TO PREVENT MOISTURE INFILTRATION UNTIL SUCH TIME AS THE MATERIAL IS REQUIRED FOR RE-USE. IF ALL OF THE USABLE MATERIAL IS NOT RE-USED THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL EXCESS USABLE MATERIAL FROM THE PROJECT SITE.

2. ALL COSTS ASSOCIATED WITH THE REMOVAL, TRANSPORT AND DISPOSAL OF EXCESS SITE MATERIALS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

## EXCAVATION

1. KEEP EXCAVATION AREAS FREE FROM WATER BY DE-WATERING AS NECESSARY. DE-WATERING SYSTEM DISCHARGE SHALL BE IN COMPLIANCE WITH STATE AND FEDERAL CODES.

## BACKFILL AND COMPACTION

1. THE PROJECT ENGINEER WILL INSPECT AND APPROVE ALL EXCAVATIONS PRIOR TO PLACEMENT OF ANY FILL. IN NO CASE SHALL FILL BE PLACED ON SOIL OR SUB-GRADE THAT IS FROZEN, CONTAINS FROST, OR IS COVERED BY SNOW WITHOUT THE PRIOR APPROVAL OF THE OWNER REPRESENTATIVE. WHEN SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL REMOVE THE AFFECTED SOIL OR SUB-GRADE PRIOR TO PLACING FILL.

2. WITH APPROVAL FROM THE OWNER REPRESENTATIVE, THE EXISTING SITE MATERIAL MAY BE SUITABLE FOR RE-USE. HAVING MET REQUIRED EARTHWORK SPECIFICATIONS PRIOR TO IT'S ORIGINAL PLACEMENT, THE MATERIAL SHALL NOT REQUIRE FURTHER LAB ANALYSIS OR RE-GRADING.

3. CONSTRUCT THE EMBANKMENT(S) WITH CLASSIFIED FILL TO THE CONTOURS, ELEVATIONS, AND DIMENSIONS SHOWN ON THE DRAWINGS.

4. COMPACT ALL SUB-GRADE SOILS TO 95% DENSITY.

5. PLACE CLASSIFIED AND UNCLASSIFIED FILL/BACKFILL IN 12-INCH LOOSE LIFTS (MAXIMUM), AT A MOISTURE CONDITION LESS THAN OPTIMUM. IN EXTREMELY RAINY WEATHER, PROTECT FILL AND BACKFILL MATERIALS TO AVOID ABOVE-OPTIMUM MOISTURE CONTACT PRIOR TO COMPACTION. COMPACT EACH LIFT BEFORE PLACING OVERLAYING LIFTS. DO NOT DUMP CLASSIFIED FILL IN LARGE PILES, WHICH REQUIRE EXTENSIVE RE-HANDLING. TAKE CARE TO AVOID SEGREGATION OR POCKETS OF FINE OR COARSE MATERIAL.

6. THE DEGREE OF COMPACTION FOR CLASSIFIED FILL/BACKFILL SHALL BE A MINIMUM OF 98% MAXIMUM DENSITY, OBTAINED WITH HEAVY VIBRATORY COMPACTORS. WET, OR DRY BY AERATION, FILL/BACKFILL TO THE MOISTURE CONTENT REQUIRED TO ATTAIN THE SPECIFIED DEGREE OF COMPACTION

## CONTRACTOR TESTING REQUIREMENTS

1. CONTRACTOR TO PROVIDE SOIL SIEVE SIZE TEST RESULTS FOR EACH OF THE FILL TYPES NOTED. NO MATERIAL SHALL BE DELIVERED TO THE SITE PRIOR TO VERIFICATION OF SATISFACTORY COMPLIANCE WITH THE NOTED REQUIREMENTS.

2. CONTRACTOR SHALL PROVIDE MOISTURE-DENSITY TESTING IN ACCORDANCE WITH AASHTO T-180 METHOD D, OR FOLLOWING ASTM T-12.

3. CONTRACTOR SHALL PROVIDE COMPACTION TEST RESULTS VERIFYING EACH OF THE DIFFERENT BACKFILL TYPES HAVE BEEN COMPACTED TO A MINIMUM OF 98% PER AASHTO T-180 OR ATM T-12 FOR MAXIMUM DENSITY.

## CONCRETE REQUIREMENTS

1. SEE STRUCTURAL SHEET 70-CS-GN-122824-02-03 FOR CONCRETE SPECIFICATIONS AND REQUIREMENTS.

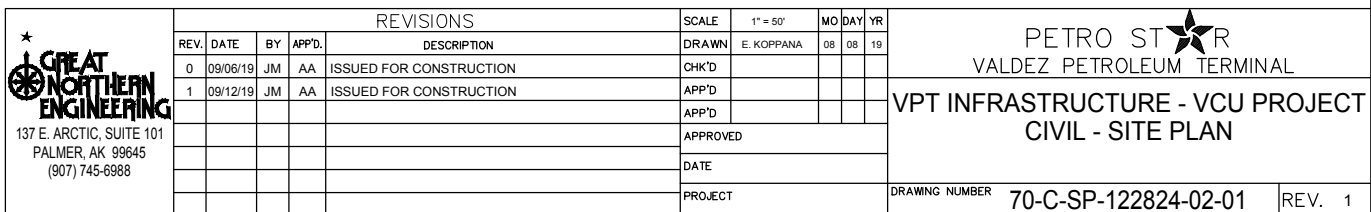
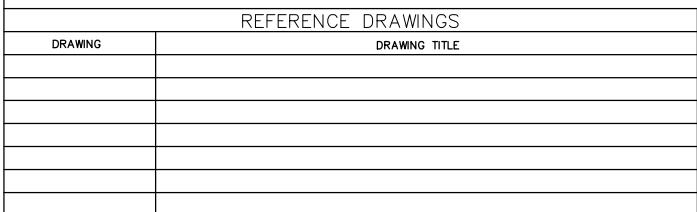
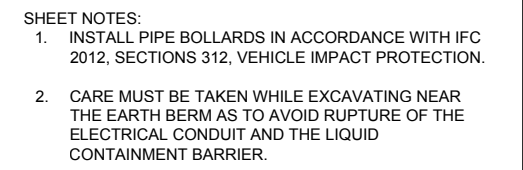
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0	09/06/19	JM	AA	ISSUED FOR CONSTRUCTION	CHK'D						<div>VPT INFRASTRUCTURE - VCU PROJECT</div> <div>CIVIL - GENERAL NOTES</div>	
					APP'D							
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					APPROVED							
					DATE							
					PROJECT							
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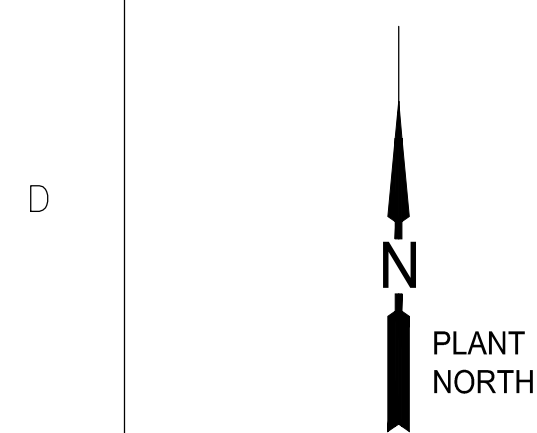
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(E) DRIVEWAY

(E) TRUCK  
LOADING

34'-0" (FIELD VERIFY)

TBM-01  
T.O.C. ELEV. = 32.99'

(E) PIPE (BURIED)

VAPOR TO VCU

ACCULOAD  
WIRING

(E) PIPE  
(ABOVE GRADE)

VCU POWER

(E) BURIED ELEC.  
CONDUIT

BLOWER  
SUPPORT

T.O. SLAB  
ELEV. = 34.3'

VAPOR  
COMBUSTION  
STACK  
T.O. SLAB = 34.3'

T.O.C. ELEV. = 34.3'  
VAPOR STAGING UNIT

T.O. SLAB  
ELEV. = 34.3'

PROPANE  
TANK

(E) EARTH  
BERM

50'R FROM TANK 21  
(NOTE 8)

50'R FROM TANK 19  
(NOTE 8)

# 1 ENLARGED SITE PLAN

1/2" = 10'-0"

OCCUPANCY:

FACTORY, GROUP F-1

TYPE OF CONSTRUCTION:

TYPE IIB CONSTRUCTION

## VPT EQUIPMENT MINIMUM OFFSETS AND CLEARANCES

TYPE OF EQUIPMENT	NOTE	MIN. SPACING FROM EQUIPMENT ONSITE	VALUE	REF
VAPOR COMBUSTION STACK (VCS)	1	500 WG LP VESSEL	25 FEET	IFC CHAPTER 57 AND SECTION 5706.5.1.10.4
	2	NEAREST BUILDING OF IMPORTANCE	25 FEET	
	3	PROPERTY LINE	25 FEET	
	4	BULK FUEL STORAGE TANK	25 FEET	
500 WG PROPANE VESSEL	5	TO VCU	25 FEET	NFPA 58 TABLE 6.3.1.1
	6	NEAREST BUILDING OF IMPORTANCE	10 FEET	
	7	PROPERTY LINE	10 FEET	
BULK FUEL STORAGE TANK	8	TO VAPOR COMBUSTION STACK	50 FEET	OWNER SPECIFIED
VAPOR COMBUSTION STACK (VCS)	9	TO NEAREST BUILDING OF IMPORTANCE	50 FEET	OWNER SPECIFIED

SHEET NOTES:

- CARE MUST BE TAKEN WHILE EXCAVATING NEAR THE EARTH BERM AS TO AVOID RUPTURE OF THE ELECTRICAL CONDUIT AND THE LIQUID CONTAINMENT BARRIER.

REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE



**GREAT NORTHERN  
ENGINEERING**  
137 E. ARCTIC, SUITE 101  
PALMER, AK 99645  
(907) 745-6988

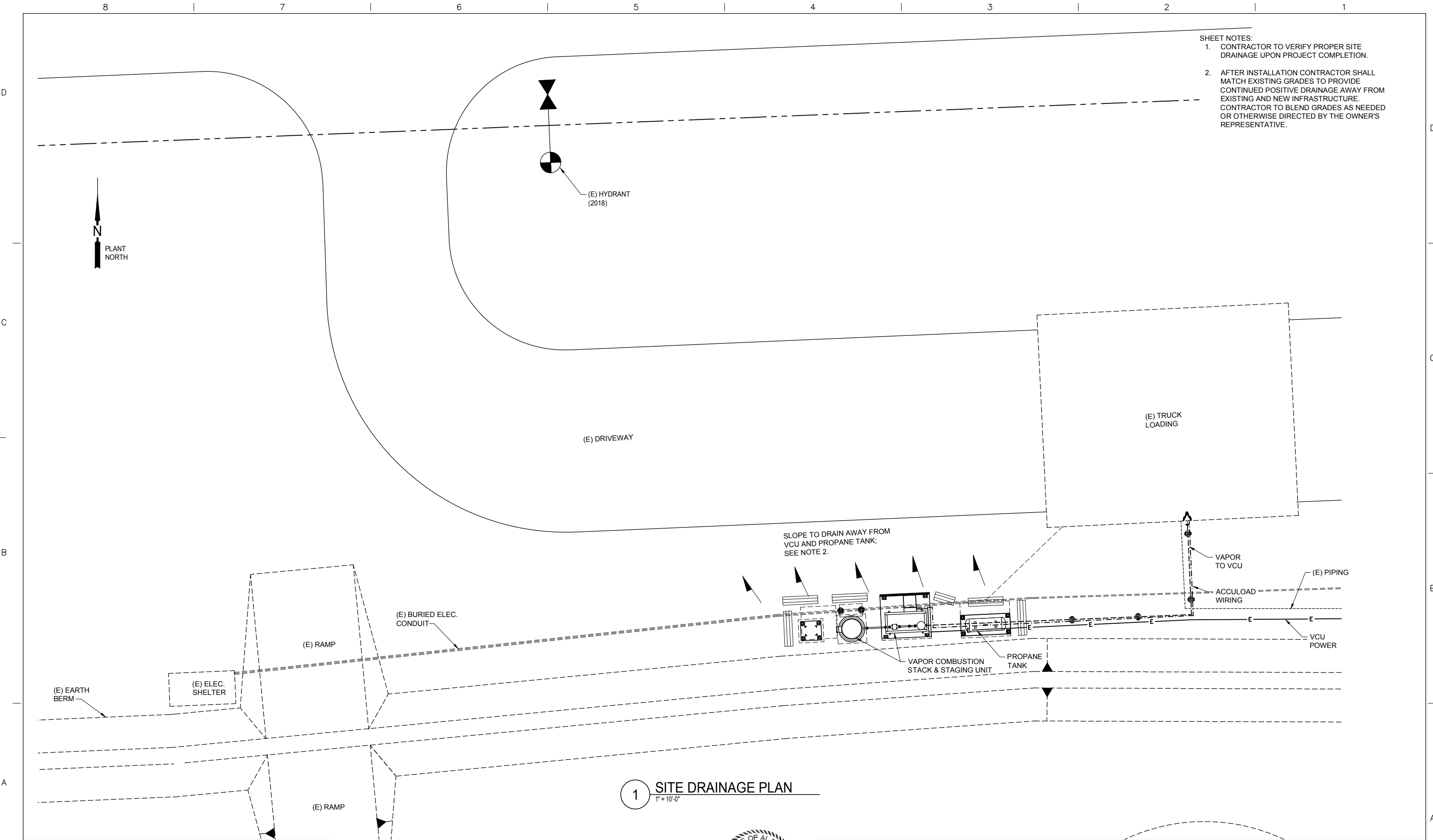
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1	09/12/19	JM	AA	ISSUED FOR CONSTRUCTION		APP'D														
2	09/17/19	EK	AA	ISSUED FOR CONSTRUCTION		APP'D														

★ PETRO STAR  
VALDEZ PETROLEUM TERMINAL

VPT INFRASTRUCTURE - VCU PROJECT  
CIVIL/STRUCTURAL - SITE PLAN  
VCU-6900, V-6919 & TRUCK RACK AREAS

DRAWING NUMBER 70-C-SP-122824-02-02

REV. 2



REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE



**GREAT NORTHERN ENGINEERING**  
137 E. ARCTIC, SUITE 101  
PALMER, AK 99645  
(907) 745-6988

REVISIONS				
REV.	DATE	BY	APP'D.	DESCRIPTION
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1	09/12/19	JM	AA	ISSUED FOR CONSTRUCTION

SCALE	1" = 10'	MO	DAY	YR
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APP'D				
APPROVED				
DATE				
PROJECT				

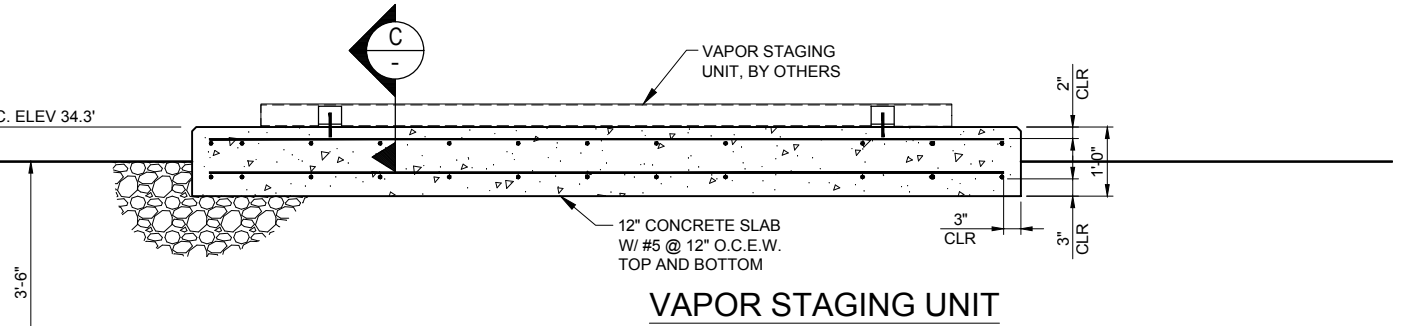
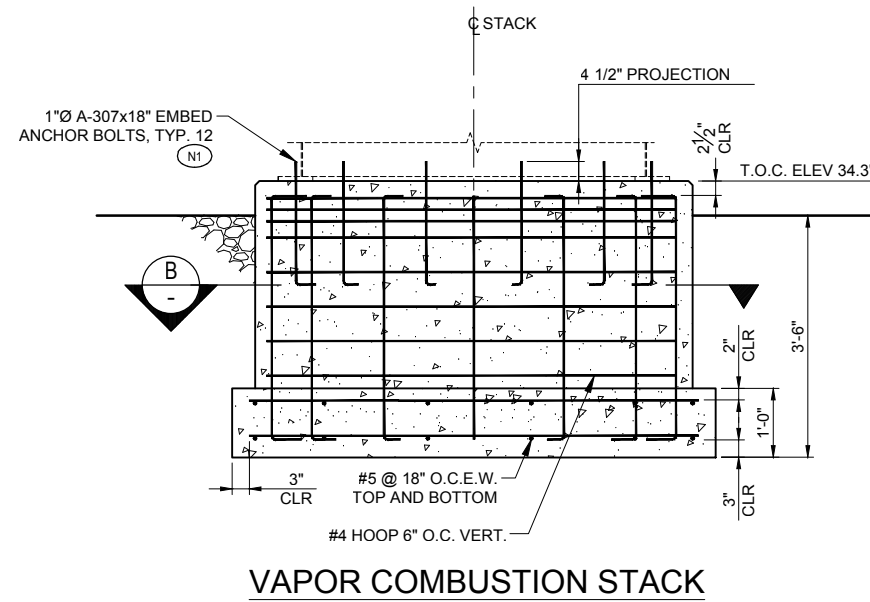
**PETRO STAR**  
VALDEZ PETROLEUM TERMINAL

**VPT INFRASTRUCTURE - VCU PROJECT**  
**CIVIL - SITE DRAINAGE PLAN**  
**VCU-6900, V-6919 & TRUCK RACK AREAS**

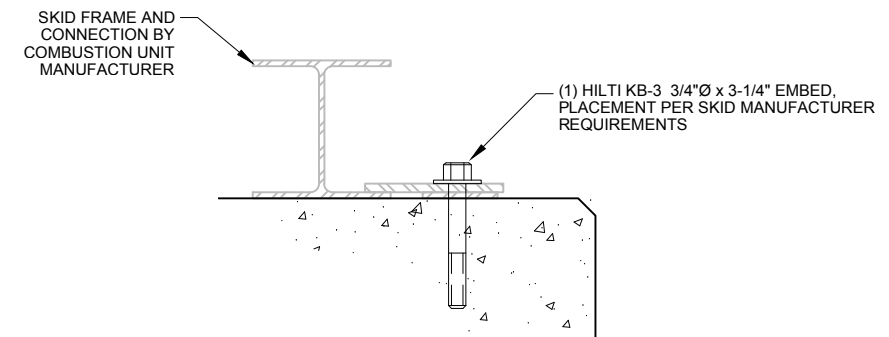
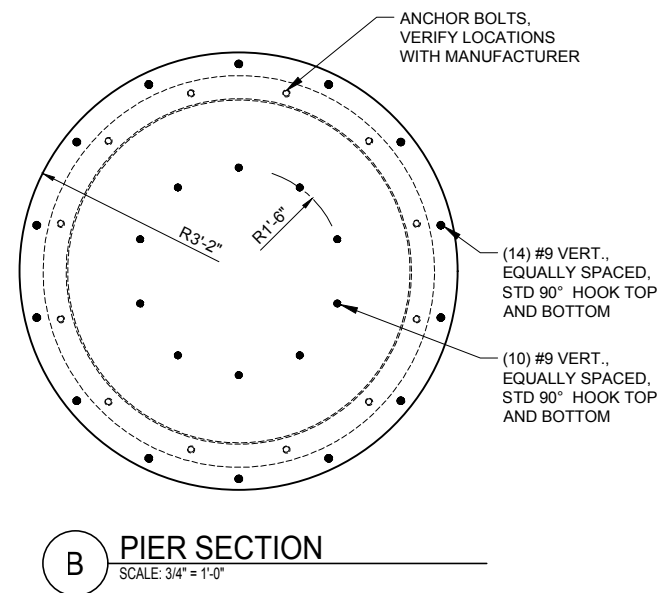
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N1 CONTRACTOR SHALL COORDINATE ACTUAL SIZE AND LOCATION OF ANCHOR BOLTS AND BASE PLATES WITH COMBUSTION UNIT MANUFACTURER PRIOR TO INSTALLATION OF CONCRETE FOOTINGS AND PILASTERS.




**A FOUNDATION SECTION**  
SCALE: 3/4" = 1'-0"



SECTION C  
3" = 1'-0" 70-CS-SED-0691-02

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REVISIONS					SCALE		MO	DAY	YR	<div><div></div><div>PETRO STAR</div><div>VALDEZ PETROLEUM TERMINAL</div><div>VPT INFRASTRUCTURE - VCU PROJECT</div><div>CIVIL/STRUCTURAL - SECTIONS</div><div>VCU-6900 FOUNDATIONS</div></div>
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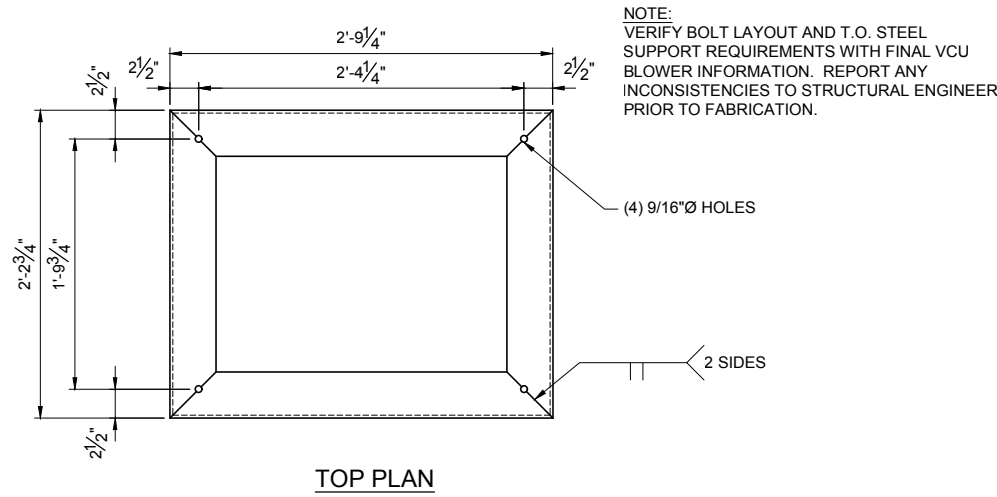


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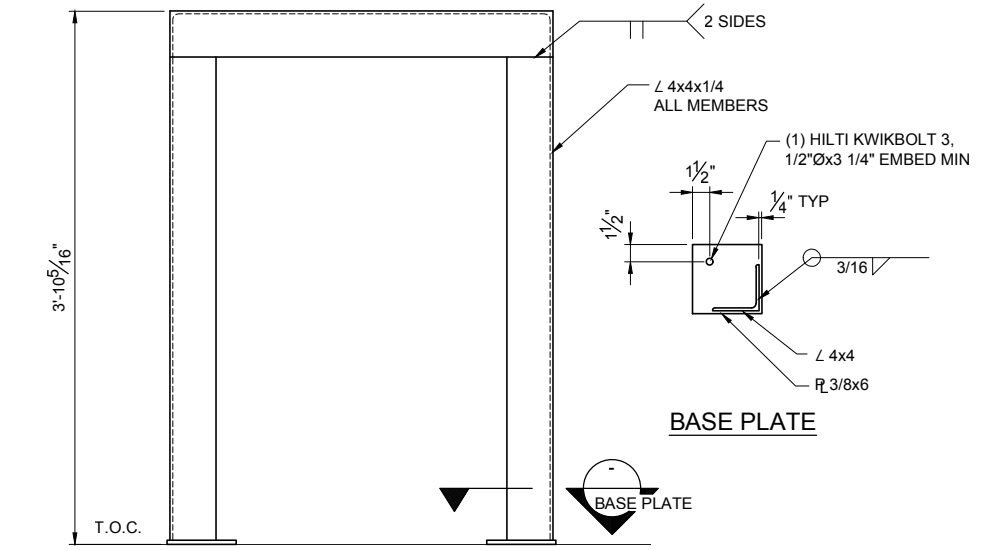
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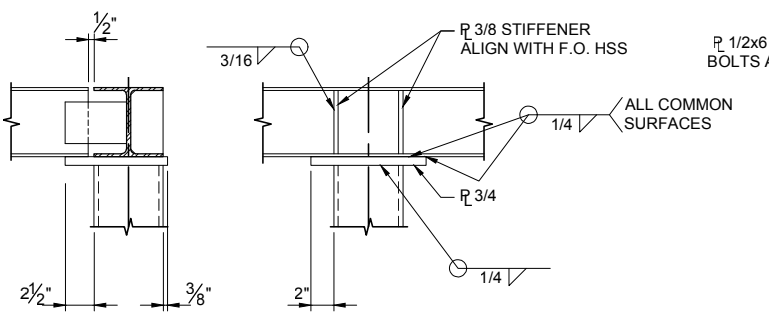


TOP PLAN

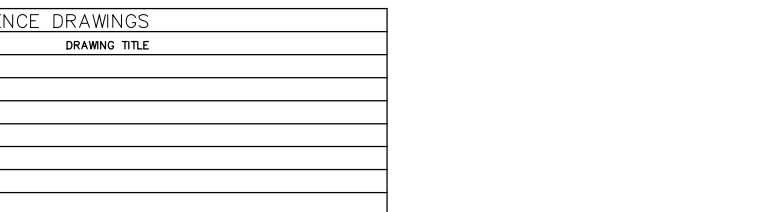


SIDE VIEW

DETAIL 8  
1-1/2" = 1'-0" 70-S-SED-0695-03

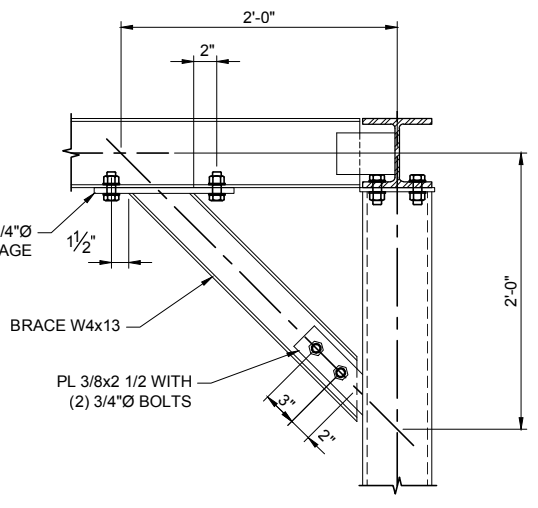


DETAIL 9  
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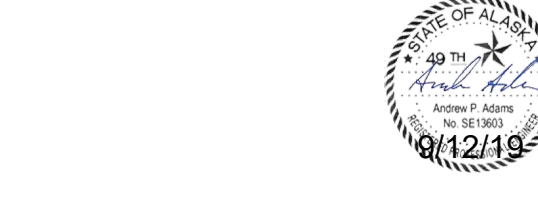


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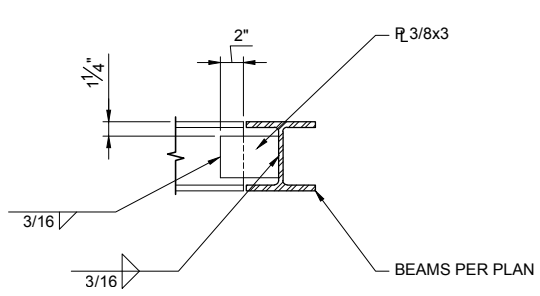
DETAIL 6  
N.T.S. 70-S-SED-0695-03



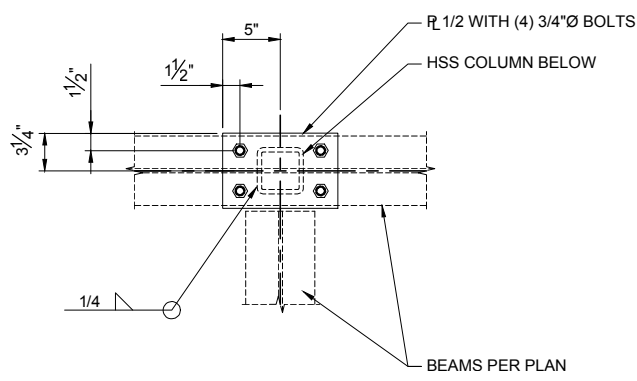
DETAIL 7  
1-1/2" = 1'-0" 70-S-SED-0695-03



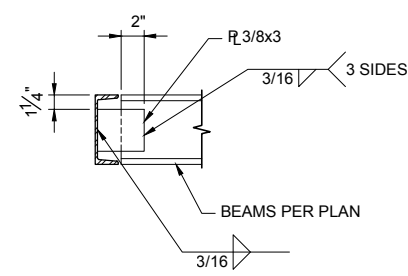
3 SIDES



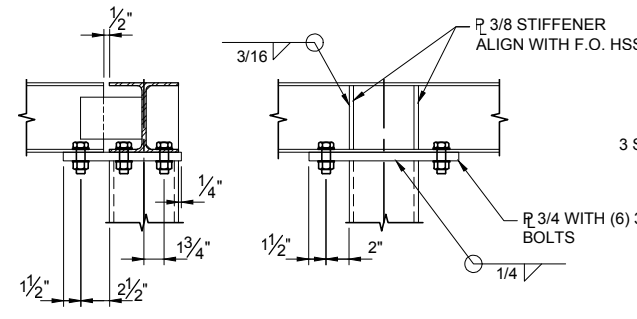
DETAIL 2  
1-1/2" = 1'-0" 70-S-SED-0695-03



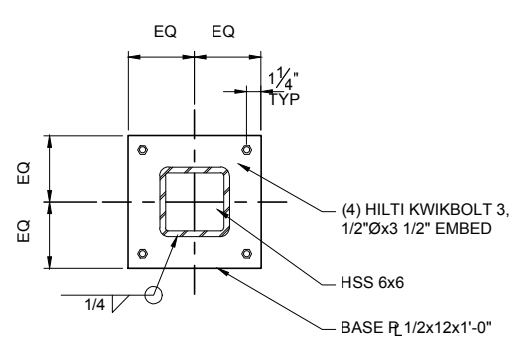
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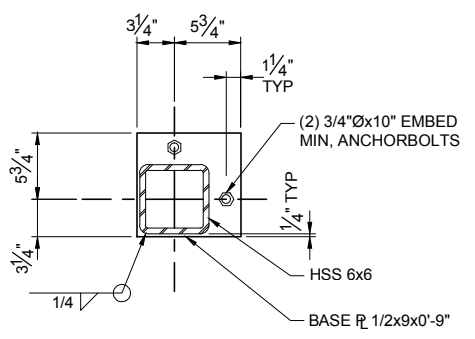
DETAIL 4  
1-1/2" = 1'-0" 70-S-SED-0695-03



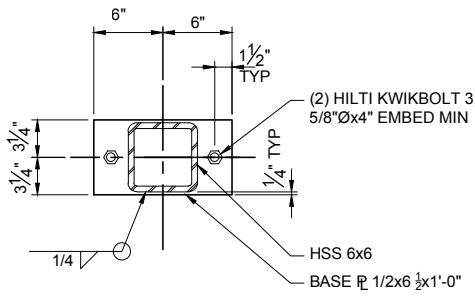
DETAIL 5  
1-1/2" = 1'-0" 70-S-SED-0695-03



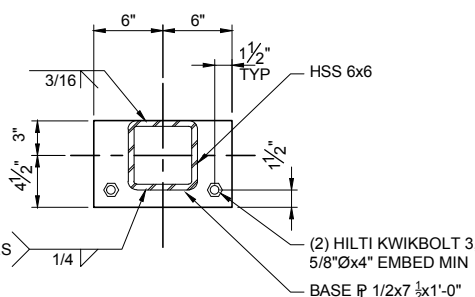
TYPE A



TYPE B

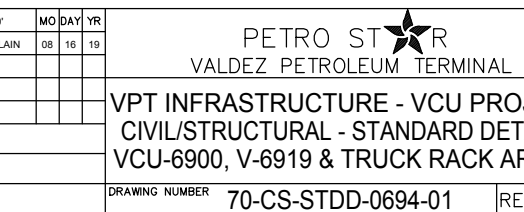


TYPE C



TYPE D

DETAIL 1  
1-1/2" = 1'-0" 70-S-SED-0695-03



REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE



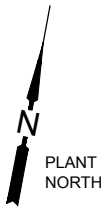
**GREAT NORTHERN ENGINEERING**  
137 E. ARCTIC, SUITE 101  
PALMER, AK 99645  
(907) 745-6988

REVISIONS			
REV.	DATE	BY	APP'D.
0	09/06/19	JM	AA
1	09/12/19	JM	AA

SCALE	1" = 10'	MO	DAY	YR
DRAWN	J. MCCLAIN	08	16	19
CHK'D				
APP'D				
APPROVED				
DATE				
PROJECT				

**PETRO STAR**  
VALDEZ PETROLEUM TERMINAL  
VPT INFRASTRUCTURE - VCU PROJECT  
CIVIL/STRUCTURAL - STANDARD DETAILS  
VCU-6900, V-6919 & TRUCK RACK AREAS  
DRAWING NUMBER **70-CS-STDD-0694-01** REV. 1

D



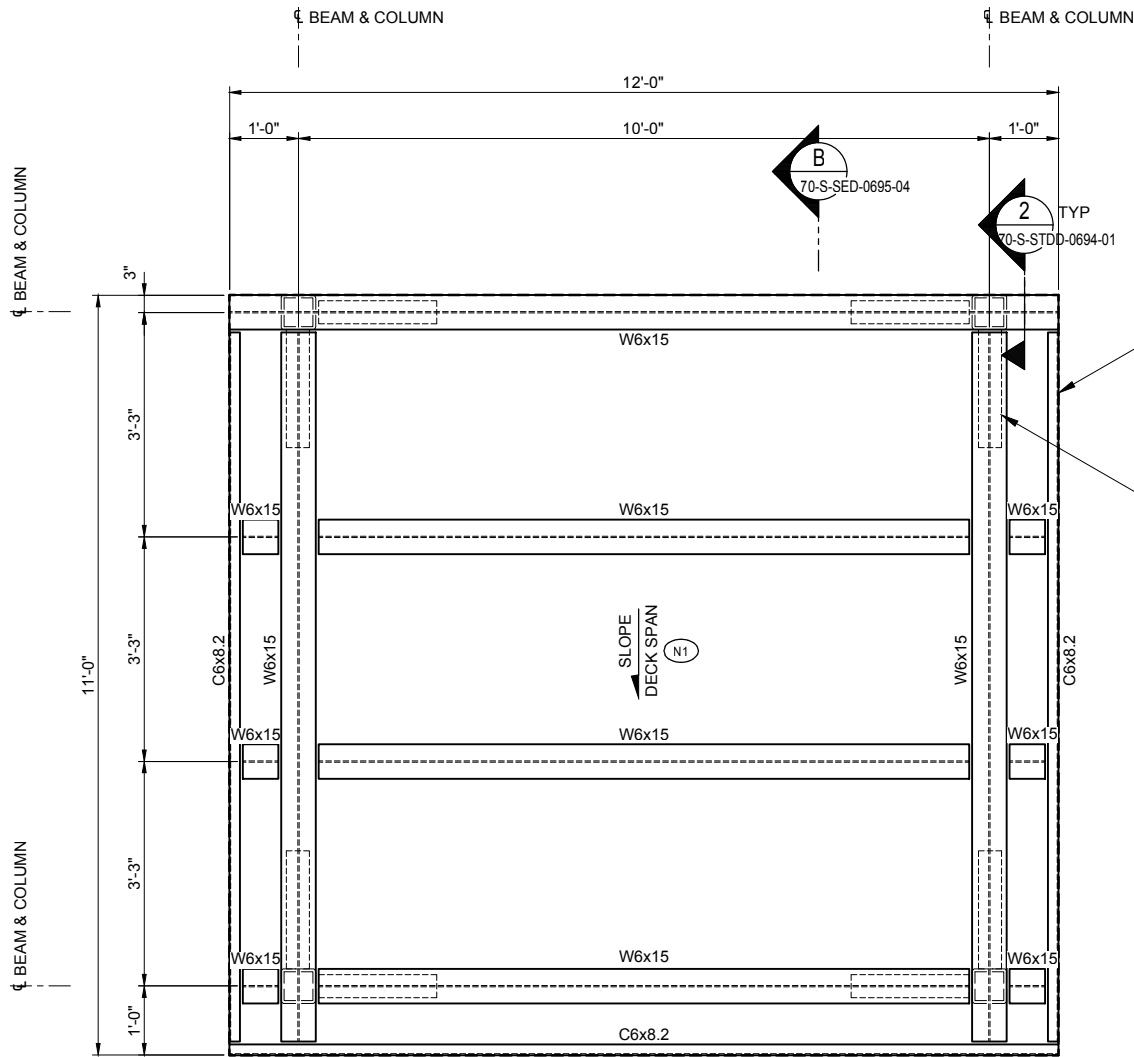
NOTES:

N1 CONTRACTOR SHALL INSTALL SNOW CLEATS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SNOW CLEATS SHALL BE BERGER SNOW GUARD #100 SHOE OR OTHER OWNER SELECTED.

C

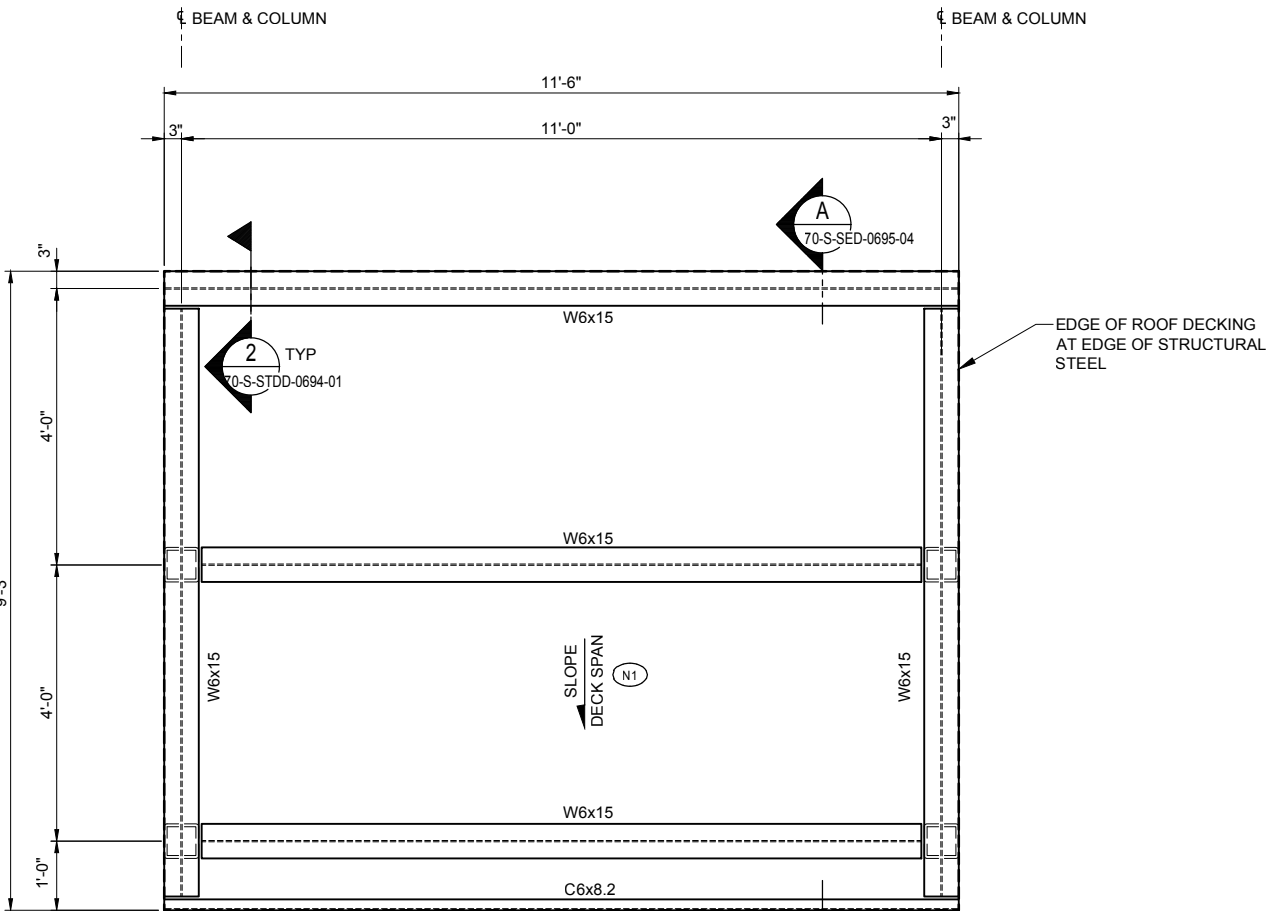
B

A



VAPOR STAGING UNIT

1 VCU-6900  
SCALE: 3/4" = 1'-0"



PROPANE TANK

2 V-6919  
SCALE: 3/4" = 1'-0"

REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE



**GREAT NORTHERN ENGINEERING**  
137 E. ARCTIC, SUITE 101  
PALMER, AK 99645  
(907) 745-6988  
GNE # 309090

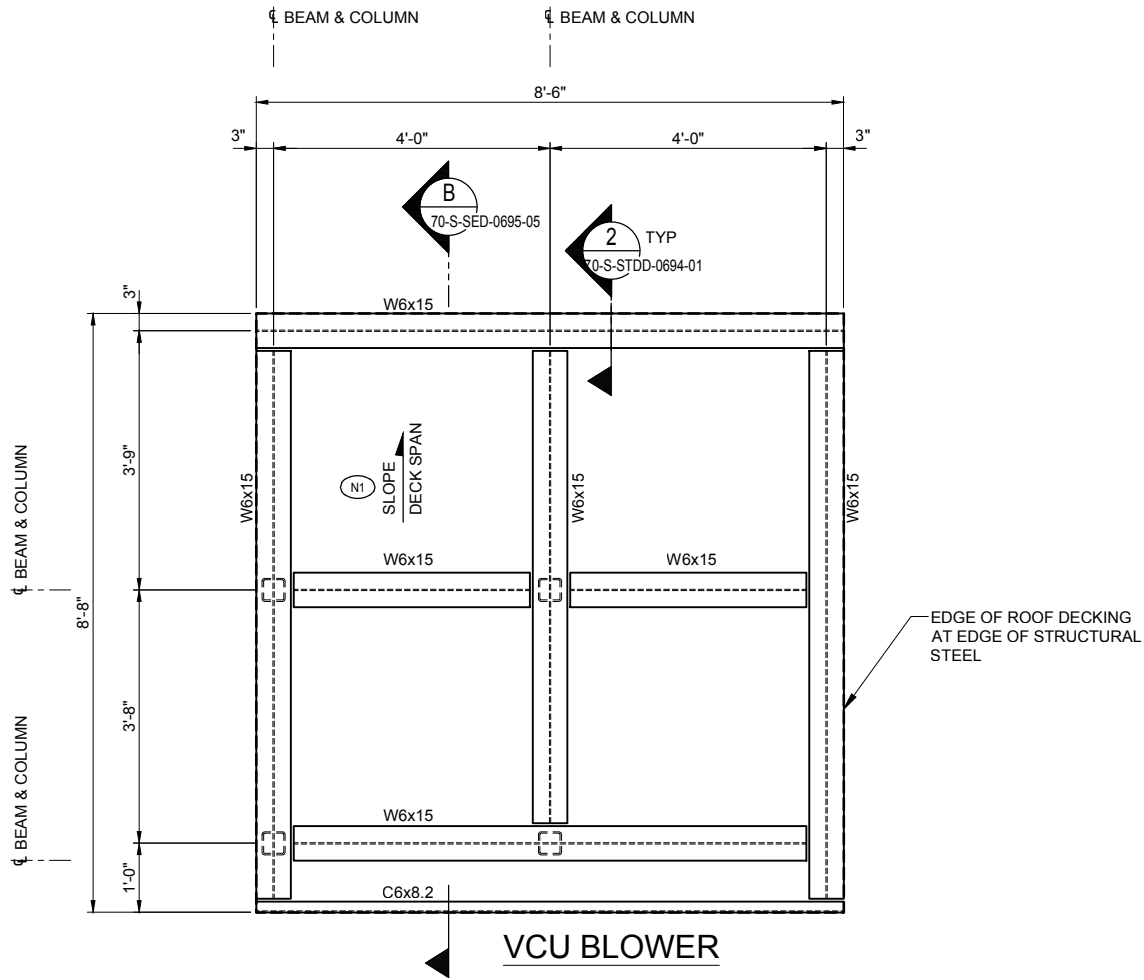
REVISIONS				
REV.	DATE	BY	APP'D.	DESCRIPTION
0	09/06/19	JM	AA	ISSUED FOR CONSTRUCTION

**PETRO STAR**  
VALDEZ PETROLEUM TERMINAL  
VPT INFRASTRUCTURE - VCU PROJECT  
STRUCTURAL - PLAN VIEW  
VCU-6900 & V-6919 SNOW PROTECTION  
DRAWING NUMBER 70-S-PVW-0695-01  
REV. 0

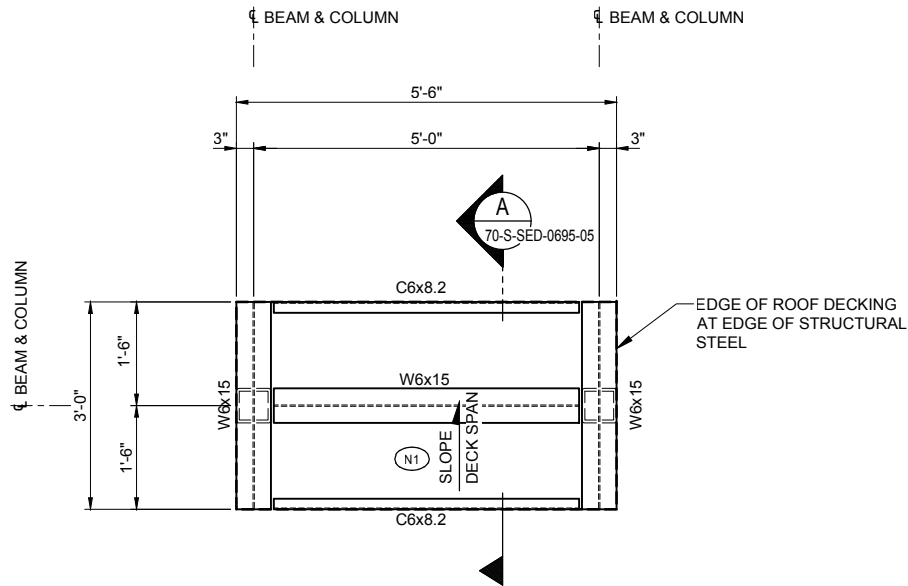


NOTES:

- N1 CONTRACTOR SHALL INSTALL SNOW CLEATS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SNOW CLEATS SHALL BE BERGER SNOW GUARD #100 SHOE OR OTHER OWNER SELECTED.



1 VCU-6900 PLAN  
SCALE: 3/4" = 1'-0"



2 VCU-6900  
SCALE: 3/4" = 1'-0"

REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE



**GREAT NORTHERN ENGINEERING**  
137 E. ARCTIC, SUITE 101  
PALMER, AK 99645  
(907) 745-6988  
GNE # 309090

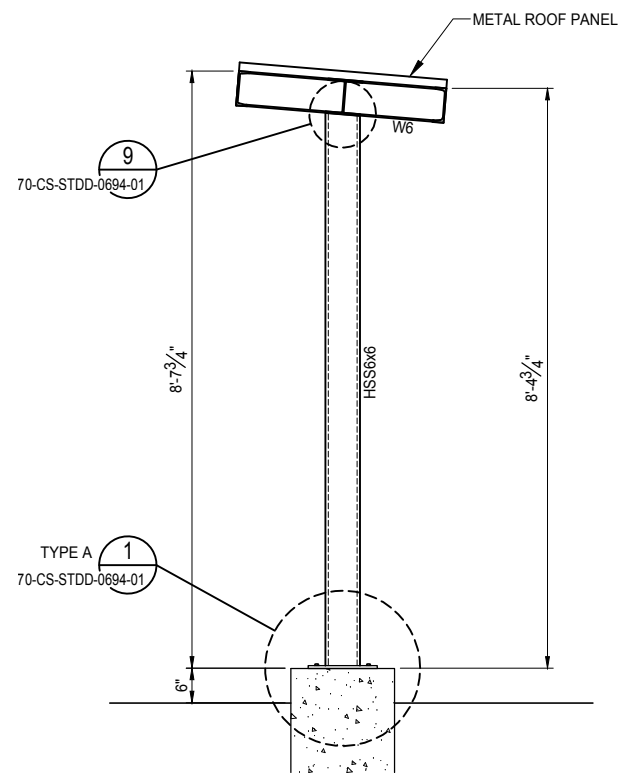
REVISIONS					SCALE		MO	DAY	YR
REV.	DATE	BY	APP'D.	DESCRIPTION	DRAWN	J. MCCLAIN	08	15	19
0	09/06/19	JM	AA	ISSUED FOR CONSTRUCTION	CHK'D				
					APP'D				

PETRO STAR VALDEZ PETROLEUM TERMINAL	
VPT INFRASTRUCTURE - VCU PROJECT STRUCTURAL - PLAN VIEW VCU-6900 SNOW PROTECTION	
DRAWING NUMBER	70-S-PVW-0695-02
REV.	0

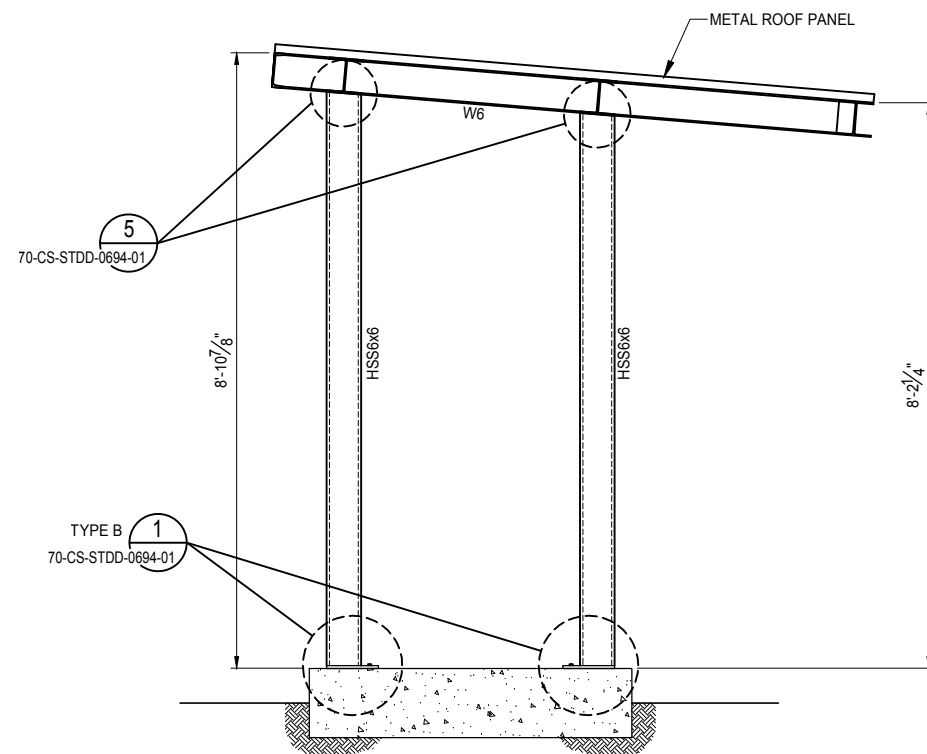









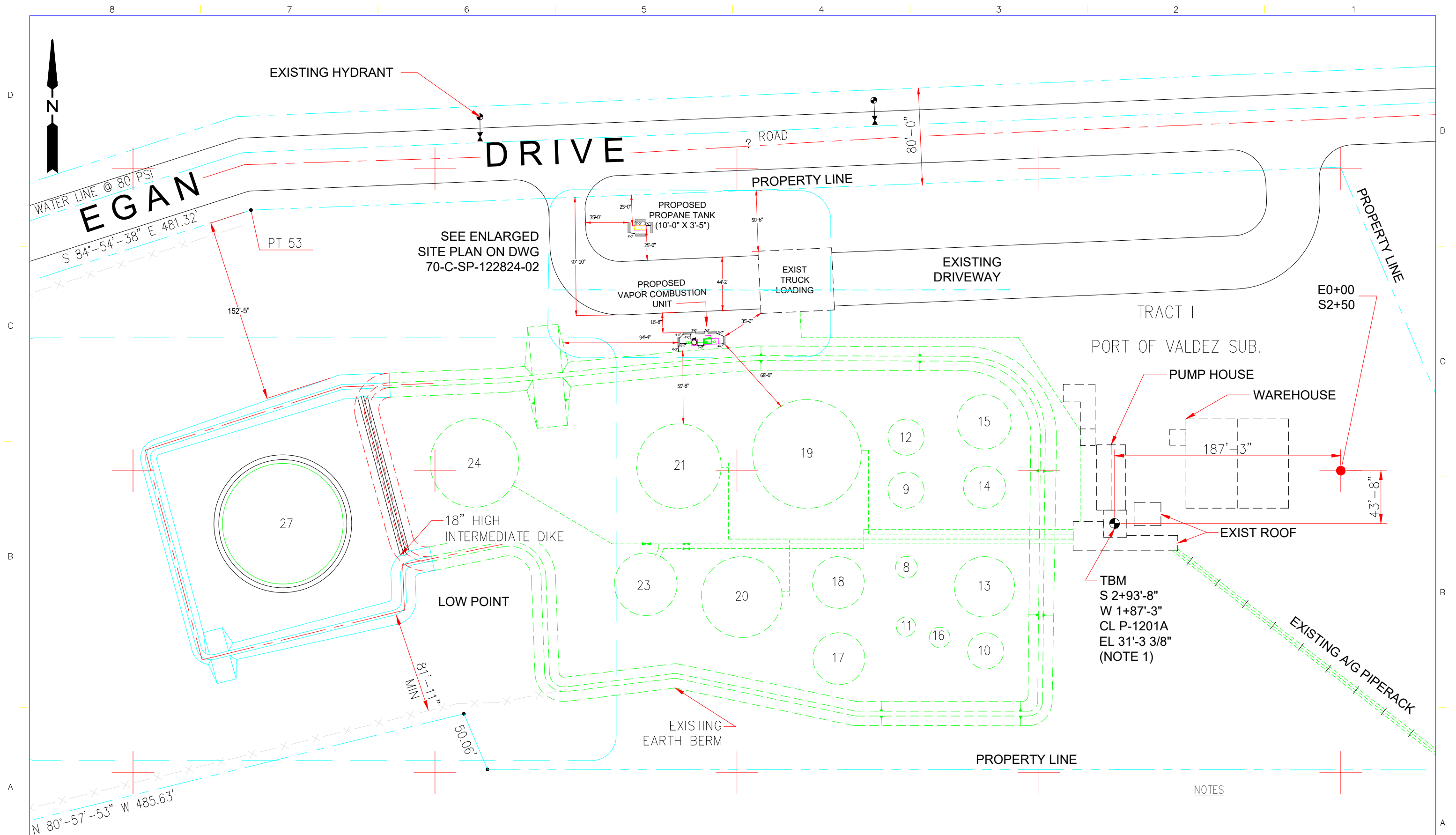
**A** VCU-6900 DAMPER  
SCALE: 3/4" = 1'-0"




**B** VCU-6900 BLOWER  
SCALE: 3/4" = 1'-0"

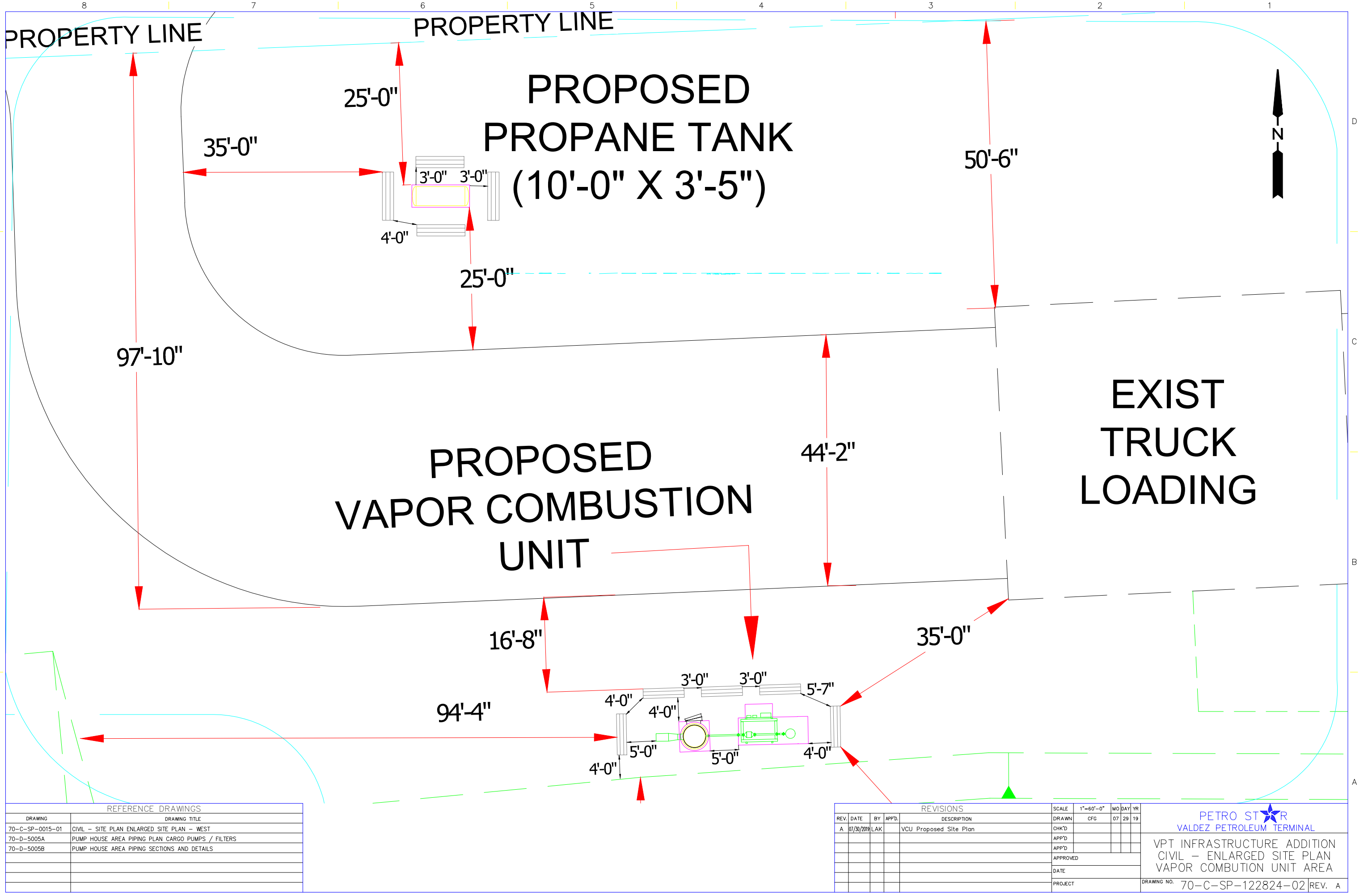
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REVISONS					SCALE		MO DAY YR			 PETRO STAR VALDEZ PETROLEUM TERMINAL	
REV.	DATE	BY	APP'D.	DESCRIPTION	DRAWN	J. MCCLAIN	08	15	19		
0	09/06/19	JM	AA	ISSUED FOR CONSTRUCTION	CHK'D						
					APP'D						
					APP'D						
					APPROVED						
					DATE						
					PROJECT					DRAWING NUMBER	70-S-SED-0695-05
										REV.	0



REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE
70-C-SP-0015-01	CIVIL - SITE PLAN ENLARGED SITE PLAN - WEST
70-D-5005A	PUMP HOUSE AREA PIPING PLAN CARGO PUMPS / FILTERS
70-D-5005B	PUMP HOUSE AREA PIPING SECTIONS AND DETAILS

REVISONS				SCALE	1"=60'-0"	MO	DAY	YR	 <b>PETRO STAR</b> VALDEZ PETROLEUM TERMINAL	
REV.	DATE	BY	APP'D.	DESCRIPTION				DRAWN		
0	07/29/19	LAK		VCU Proposed Site Plan				CHK'D		
								APP'D		
								APP'D		
				APPROVED				VPT INFRASTRUCTURE ADDITION CIVIL – SITE PLAN OVERALL FACILITY		
				DATE						
				PROJECT 122824						
				DRAWING NO.				70-C-SP-122824-01		
								REV. A		



REFERENCE DRAWINGS	
DRAWING	DRAWING TITLE
70-C-SP-0015-01	CIVIL - SITE PLAN ENLARGED SITE PLAN - WEST
70-D-5005A	PUMP HOUSE AREA PIPING PLAN CARGO PUMPS / FILTERS
70-D-5005B	PUMP HOUSE AREA PIPING SECTIONS AND DETAILS

REVISONS					SCALE	1"=60'-0"	MO	DAY	YR	<div>PETRO STAR VALDEZ PETROLEUM TERMINAL</div> <div>VPT INFRASTRUCTURE ADDITION CIVIL – ENLARGED SITE PLAN VAPOR COMBUTION UNIT AREA</div>
REV.	DATE	BY	APP'D.	DESCRIPTION	DRAWN	CFG	07	29	19	
A	07/30/2019	LAK		VCU Proposed Site Plan	CHK'D					
					APP'D					
					APPROVED					
					DATE					
					PROJECT					
					DRAWING NO. 70-C-SP-122824-02					REV. A