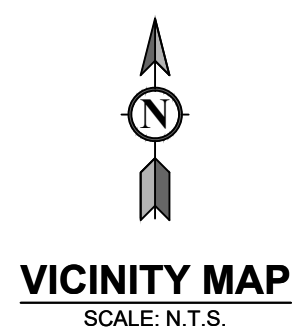
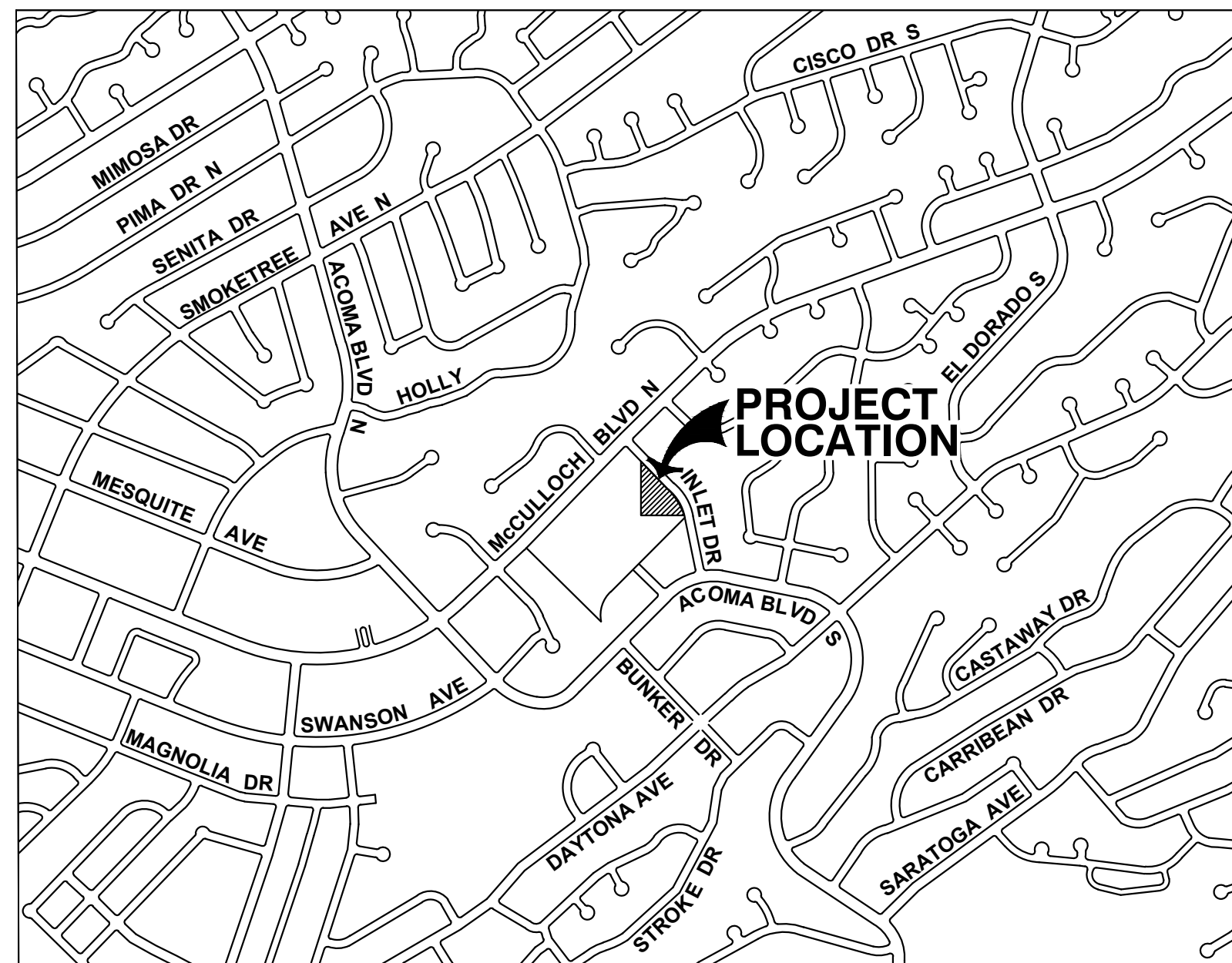


LAKE HAVASU CITY POLICE FUEL FACILITY

PROJECT 103005
JULY 2022



LEGEND

	SUBJECT PROPERTY LINE / RIGHT-OF-WAY
	ADJACENT PROPERTY LINE
	STREET CENTERLINE
	EXISTING EASEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	EXISTING PAVED ROADWAY
	EXISTING FENCE
	EXISTING RETAINING WALL
	PROPOSED RETAINING WALL
	PROPOSED SCREEN WALL
	EXISTING OVERHEAD LINE
	EXISTING MISC. UTILITIES
	EXISTING WATER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING UNDERGROUND CABLE
	EXISTING UNDERGROUND TELEPHONE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER LINE
	EXISTING STORM INLET/CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SIGN
	EXISTING UTILITY POLE W/ GUY POLE & GUY WIRE
	EXISTING ELECTRIC BOX

CITY COUNCIL

MAYOR: CAL SHEEHY
 VICE MAYOR: JIM DOLAN
 CITY COUNCIL: NANCY CAMPBELL
 DAVID LANE
 MICHELE LIN
 CAMERON MOSES
 JENI COKE

CITY MANAGER: JESS KNUDSON
 CITY ENGINEER: GREG FROSLIE, PE

UTILITY CONTACTS:

CITY OF LAKE HAVASU CITY (WASTEWATER) (928) 855-3999
 CITY OF LAKE HAVASU CITY (WATER) (928) 855-2618
 SUDDENLINK (CABLE) (928) 855-7815
 UNISOURCE ENERGY SERVICES (GAS) (928) 505-7025
 UNISOURCE ENERGY SERVICES (ELECTRIC) (928) 505-7031

DRAWING INDEX

NO.	TITLE
C-1	COVER SHEET
C-2	UST REMOVAL SITE PLAN
C-3	PROPOSED AGST SITE PLAN
C-4	STRUCTURAL DETAILS
E-1	ELECTRICAL PLAN
E-2	ELECTRICAL DETAILS



NO.	DATE	REVISION	BY
8-12-22		REVISIONS ISSUED WITH ADDENDUM NO. 2	S. PERROTTTO

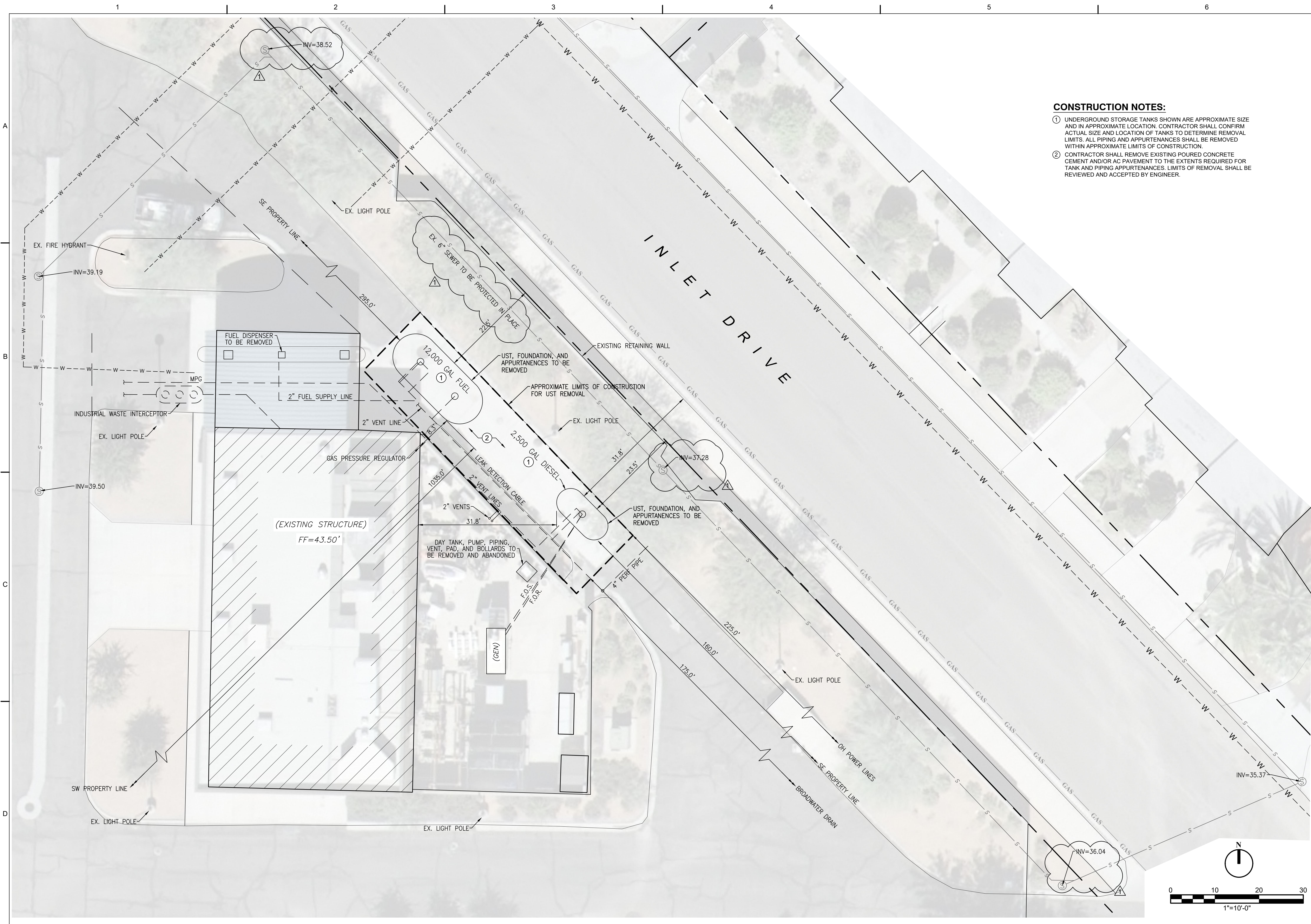
TRICO ENGINEERING, LLC
 231 SWANSON AVENUE, LAKE HAVASU CITY, AZ 86403
 WWW.TRICOENGINEERINGLLC.COM

LAKE HAVASU CITY, ARIZONA
 POLICE FUEL FACILITY
 D3558100
 LAKE HAVASU CITY
 2330 MCCULLOCH BLVD N, LAKE HAVASU CITY, AZ 86403
 (928) 456-6116

Jacobs
 CIVIL
 COVER SHEET

N.T.S.
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE AUGUST 2022
PROJ 103005
DWG C-1
SHEET 1 of 6





- CONSTRUCTION NOTES:**
- 1 UNDERGROUND STORAGE TANKS SHOWN ARE APPROXIMATE SIZE AND IN APPROXIMATE LOCATION. CONTRACTOR SHALL CONFIRM ACTUAL SIZE AND LOCATION OF TANKS TO DETERMINE REMOVAL LIMITS. ALL PIPING AND APPURTENANCES SHALL BE REMOVED WITHIN APPROXIMATE LIMITS OF CONSTRUCTION.
 - 2 CONTRACTOR SHALL REMOVE EXISTING POURED CONCRETE CEMENT AND/OR AC PAVEMENT TO THE EXTENTS REQUIRED FOR TANK AND PIPING APPURTENANCES. LIMITS OF REMOVAL SHALL BE REVIEWED AND ACCEPTED BY ENGINEER.



NO.	DATE	REVISION	BY
Δ 8-12-22		REVISED WITH ADDENDUM NO. 2	S. PERROTTO
DR		CHK	APVD
			S. PERROTTO
			R. EDWARDS

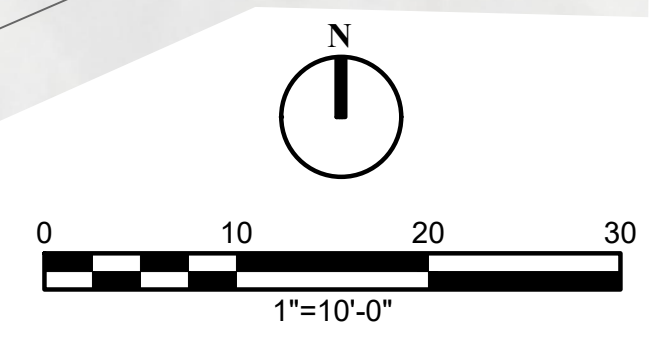
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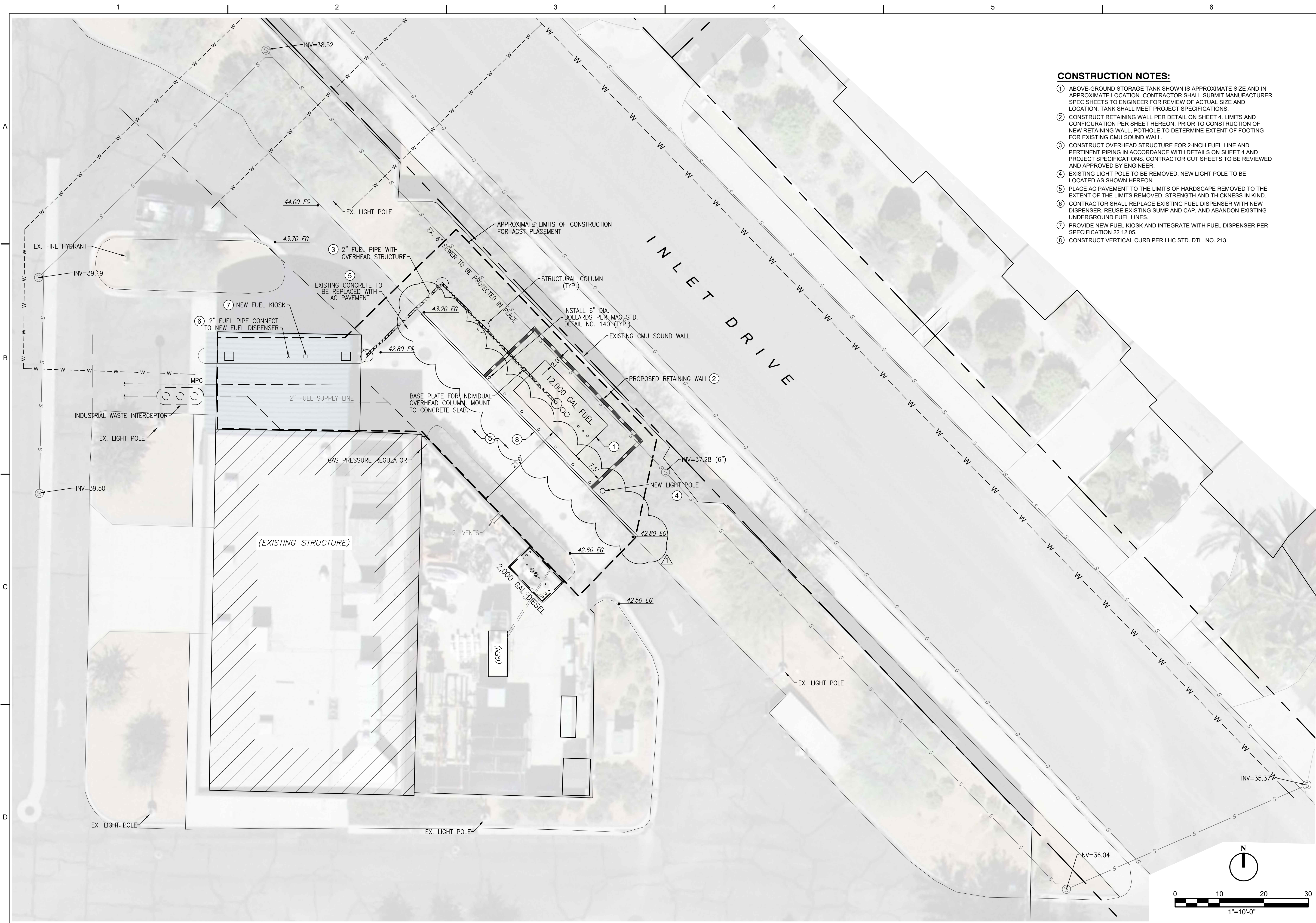
POLICE FUEL FACILITY
 D3558100
 LAKE HAVASU CITY
 2330 MCCULLOCH BLVD N., LAKE HAVASU CITY, AZ 86403
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Jacobs
 CIVIL

UST REMOVAL SITE PLAN

DATE	AUGUST 2022
PROJ	103005
DWG	C-2
SHEET	2 of 6





CONSTRUCTION NOTES:

- 1 ABOVE-GROUND STORAGE TANK SHOWN IS APPROXIMATE SIZE AND IN APPROXIMATE LOCATION. CONTRACTOR SHALL SUBMIT MANUFACTURER SPEC SHEETS TO ENGINEER FOR REVIEW OF ACTUAL SIZE AND LOCATION. TANK SHALL MEET PROJECT SPECIFICATIONS.
- 2 CONSTRUCT RETAINING WALL PER DETAIL ON SHEET 4. LIMITS AND CONFIGURATION PER SHEET HEREON. PRIOR TO CONSTRUCTION OF NEW RETAINING WALL, POTHOLE TO DETERMINE EXTENT OF FOOTING FOR EXISTING CMU SOUND WALL.
- 3 CONSTRUCT OVERHEAD STRUCTURE FOR 2-INCH FUEL LINE AND PERTINENT PIPING IN ACCORDANCE WITH DETAILS ON SHEET 4 AND PROJECT SPECIFICATIONS. CONTRACTOR CUT SHEETS TO BE REVIEWED AND APPROVED BY ENGINEER.
- 4 EXISTING LIGHT POLE TO BE REMOVED. NEW LIGHT POLE TO BE LOCATED AS SHOWN HEREON.
- 5 PLACE AC PAVEMENT TO THE LIMITS OF HARDSCAPE REMOVED TO THE EXTENT OF THE LIMITS REMOVED. STRENGTH AND THICKNESS IN KIND.
- 6 CONTRACTOR SHALL REPLACE EXISTING FUEL DISPENSER WITH NEW DISPENSER. REUSE EXISTING SUMP AND CAP, AND ABANDON EXISTING UNDERGROUND FUEL LINES.
- 7 PROVIDE NEW FUEL KIOSK AND INTEGRATE WITH FUEL DISPENSER PER SPECIFICATION 22 12 05.
- 8 CONSTRUCT VERTICAL CURB PER LHC STD. DTL. NO. 213.



NO.	DATE	REVISION	BY
Δ	8-12-22	ISSUED WITH ADDENDUM NO. 2	S. PERROTTO
DR		CHK	R. EDWARDS
APVD		APVD	S. PERROTTO

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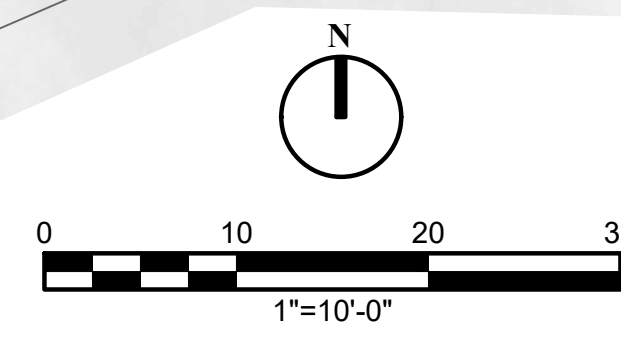
POLICE FUEL FACILITY
 D3558100
 LAKE HAVASU CITY
 2330 MCCULLOCH BLVD N, LAKE HAVASU CITY, AZ 86403
 (908) 456-6116

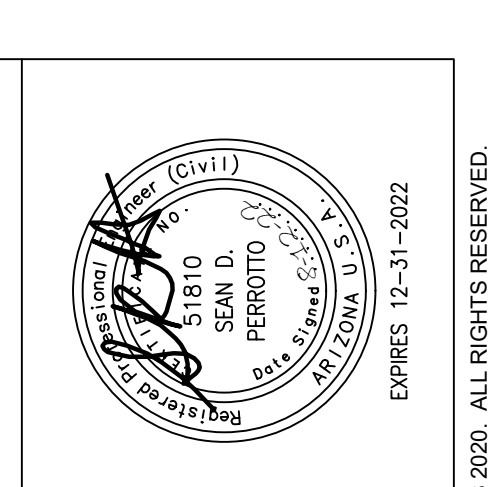
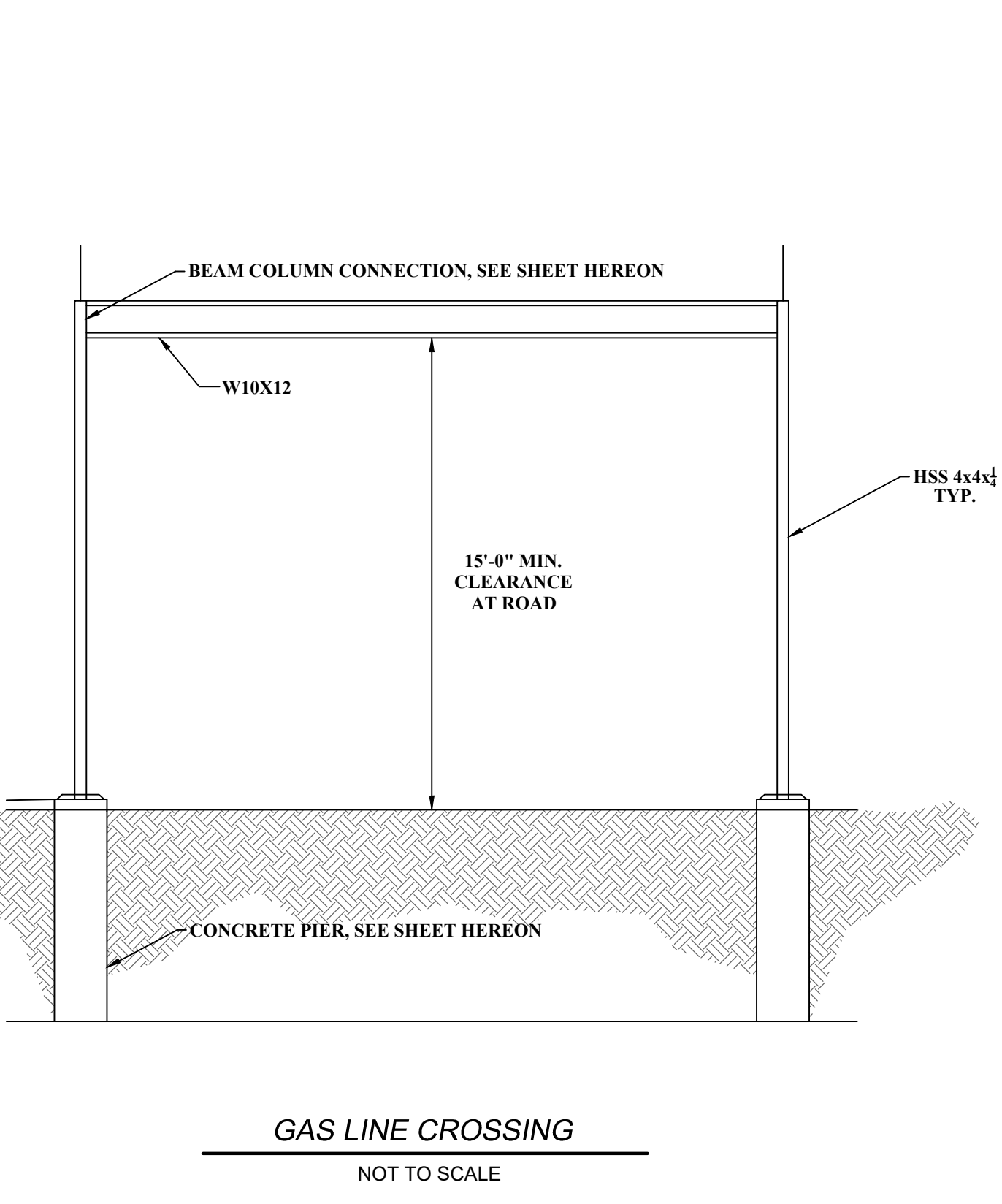
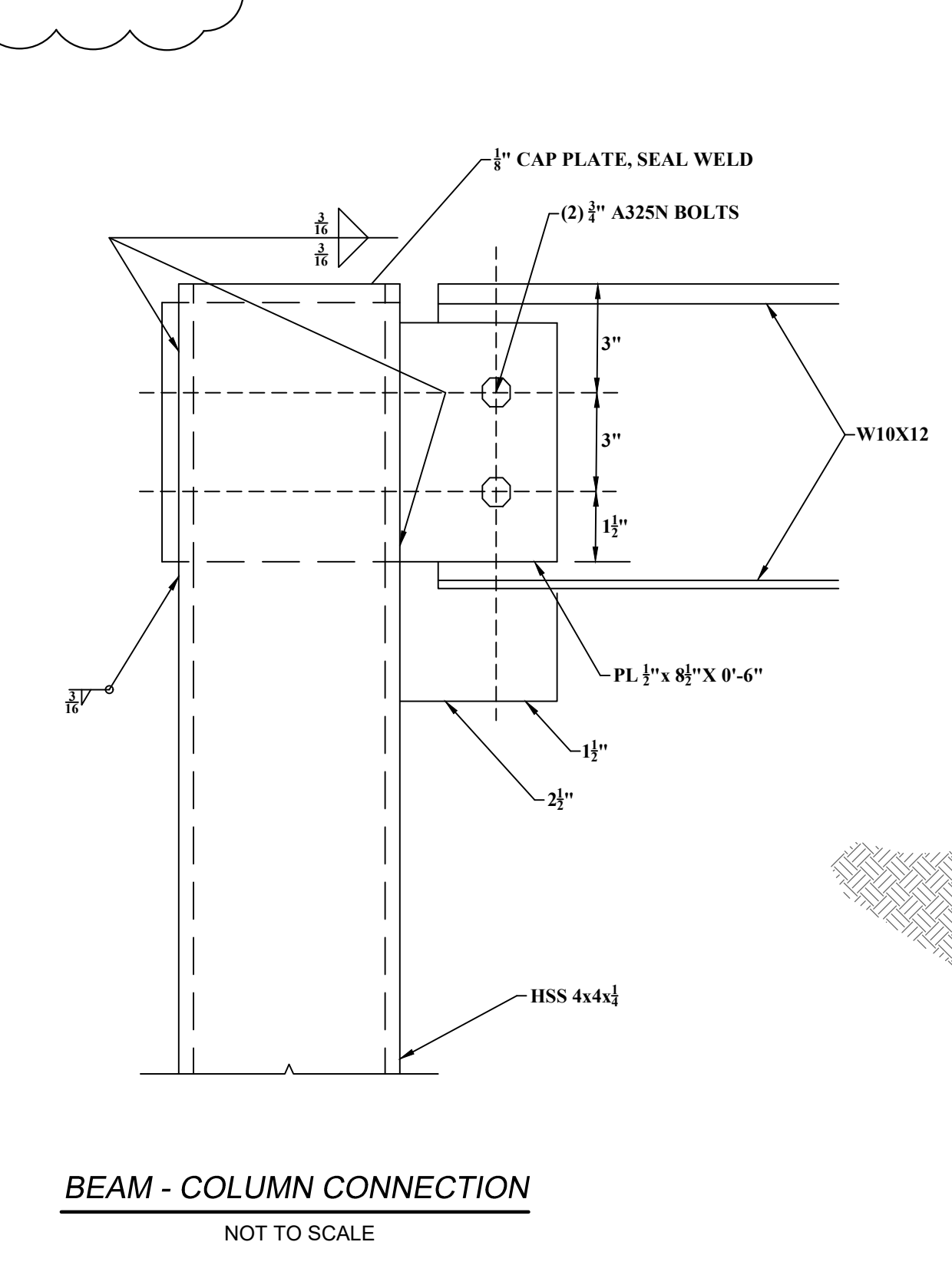
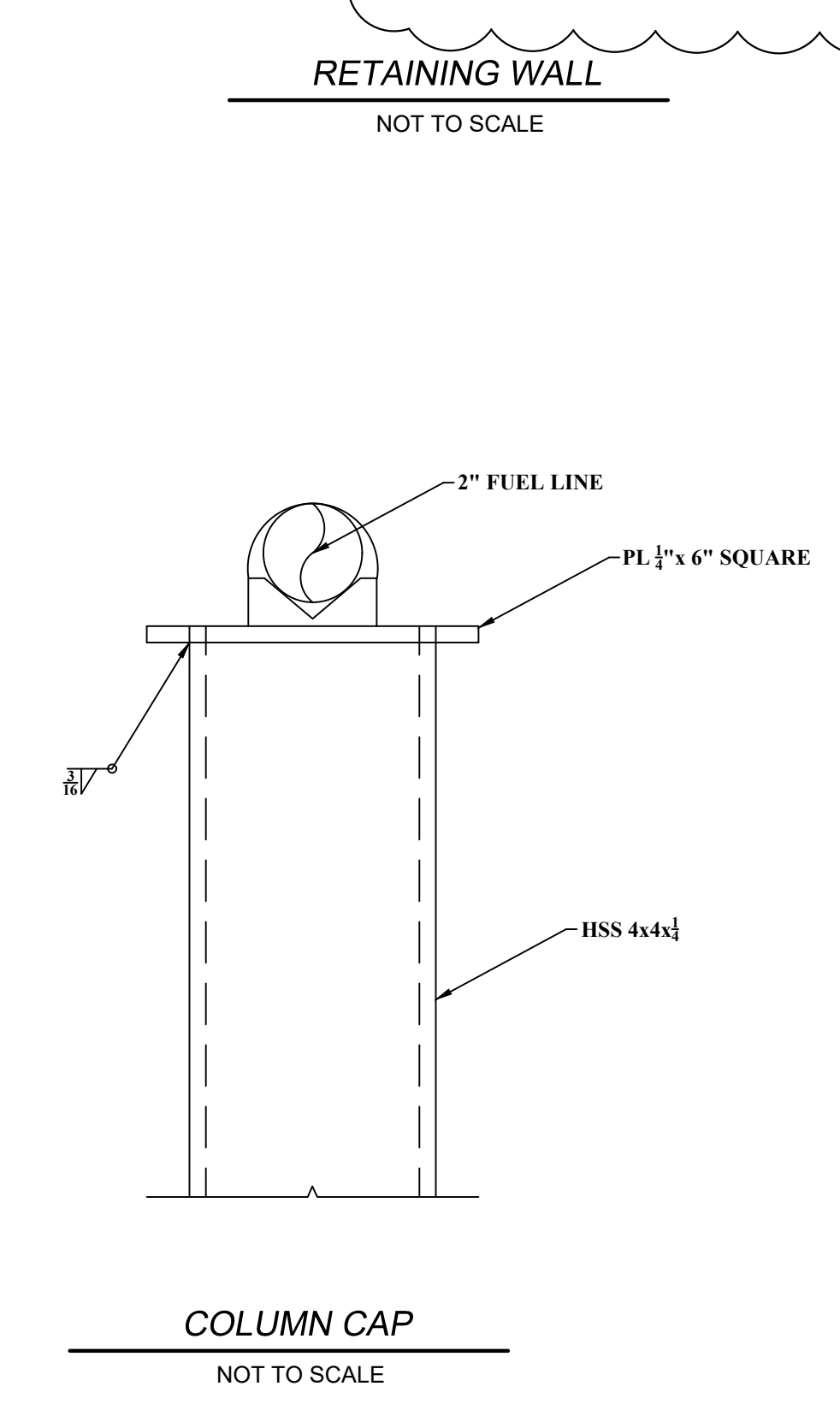
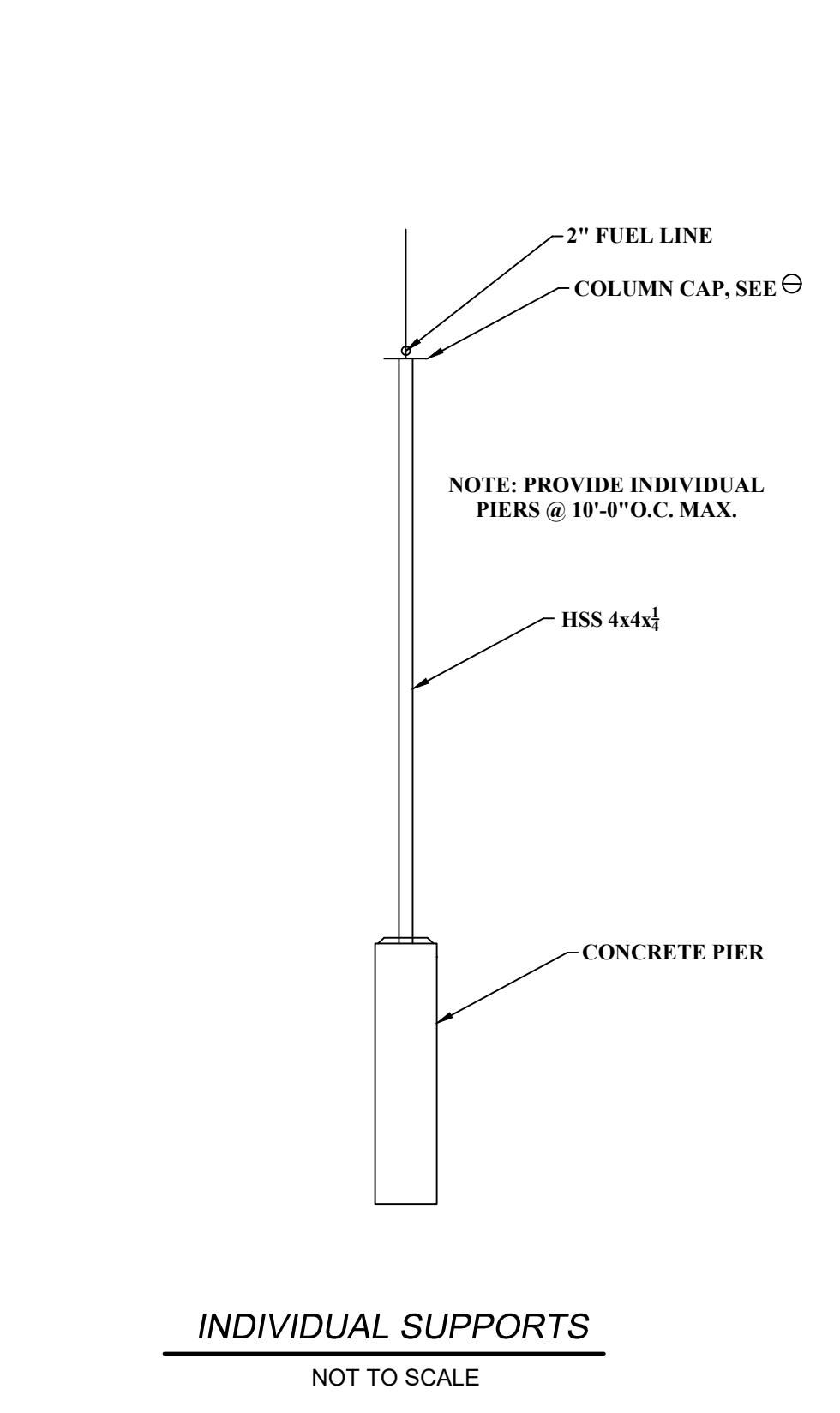
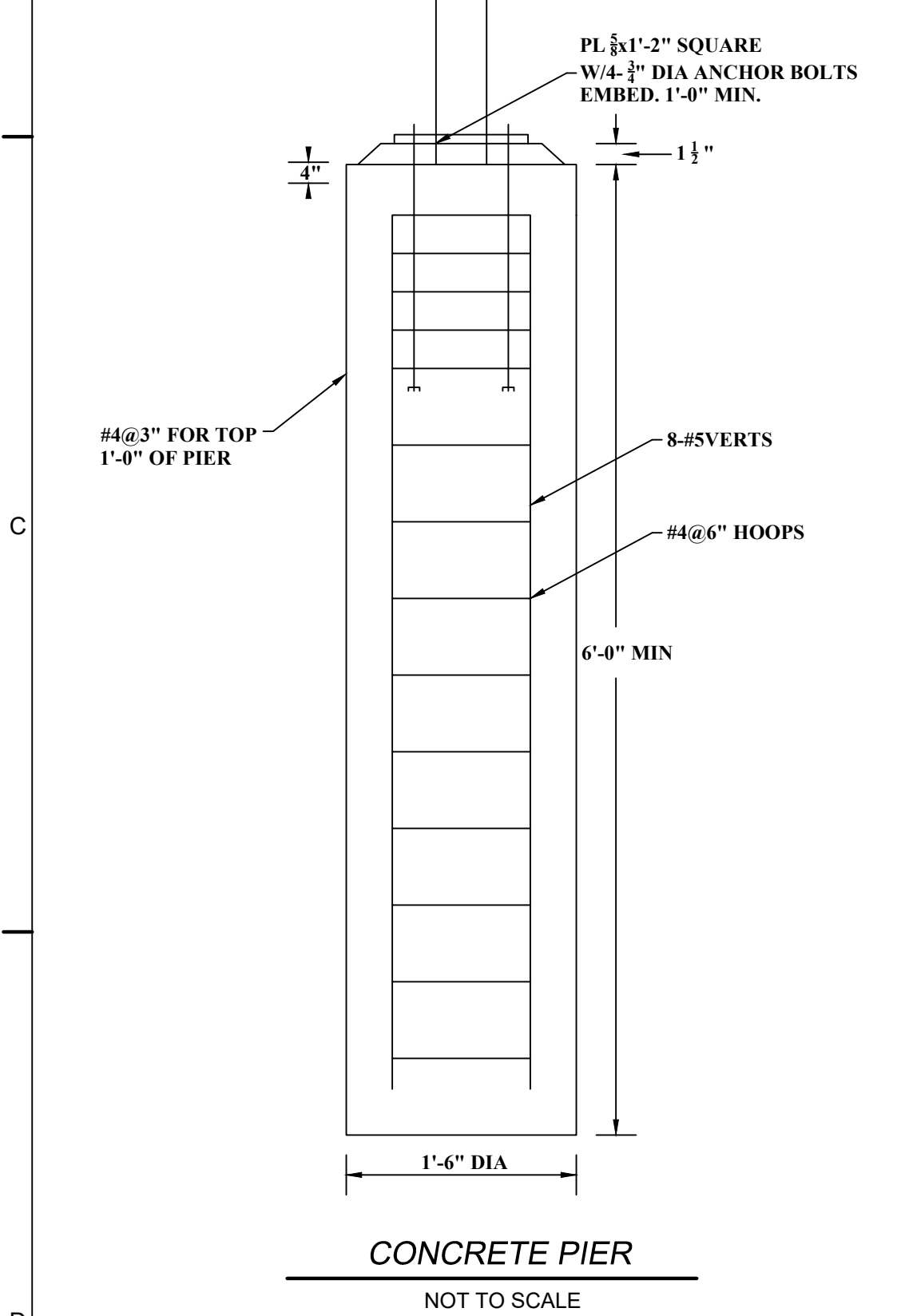
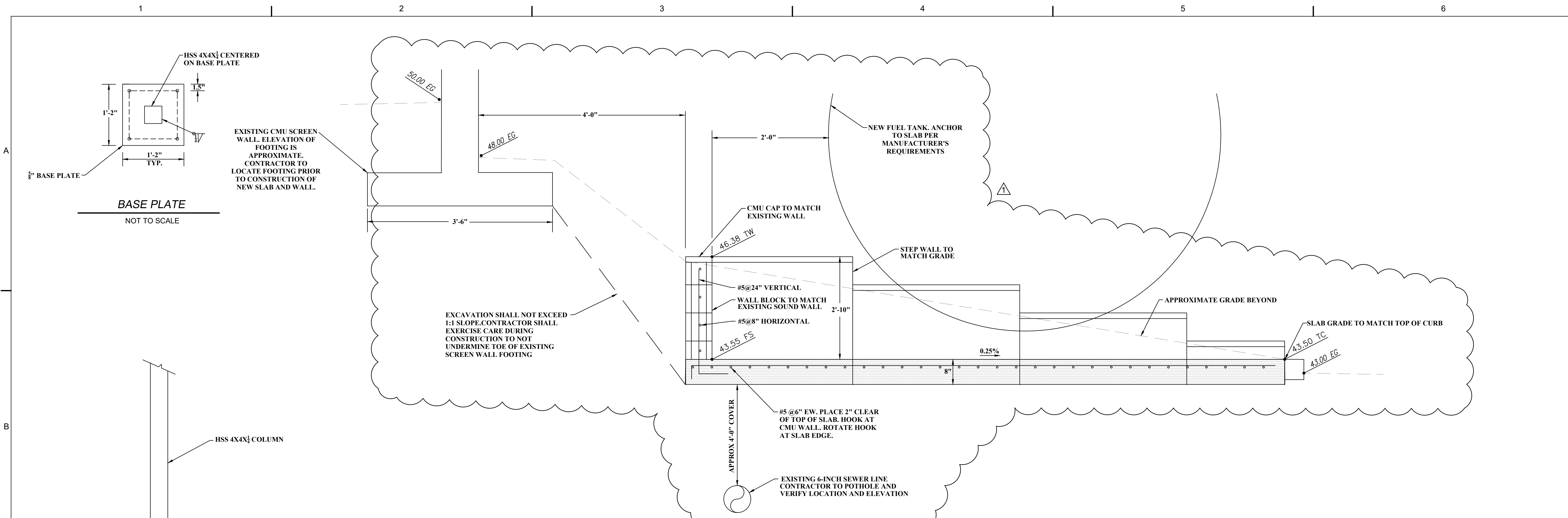
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 CIVIL

PROPOSED AGST SITE PLAN

1" = 10'
 VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE: AUGUST 2022
 PROJ: 103005
 DWG: C-3
 SHEET: 3 of 6





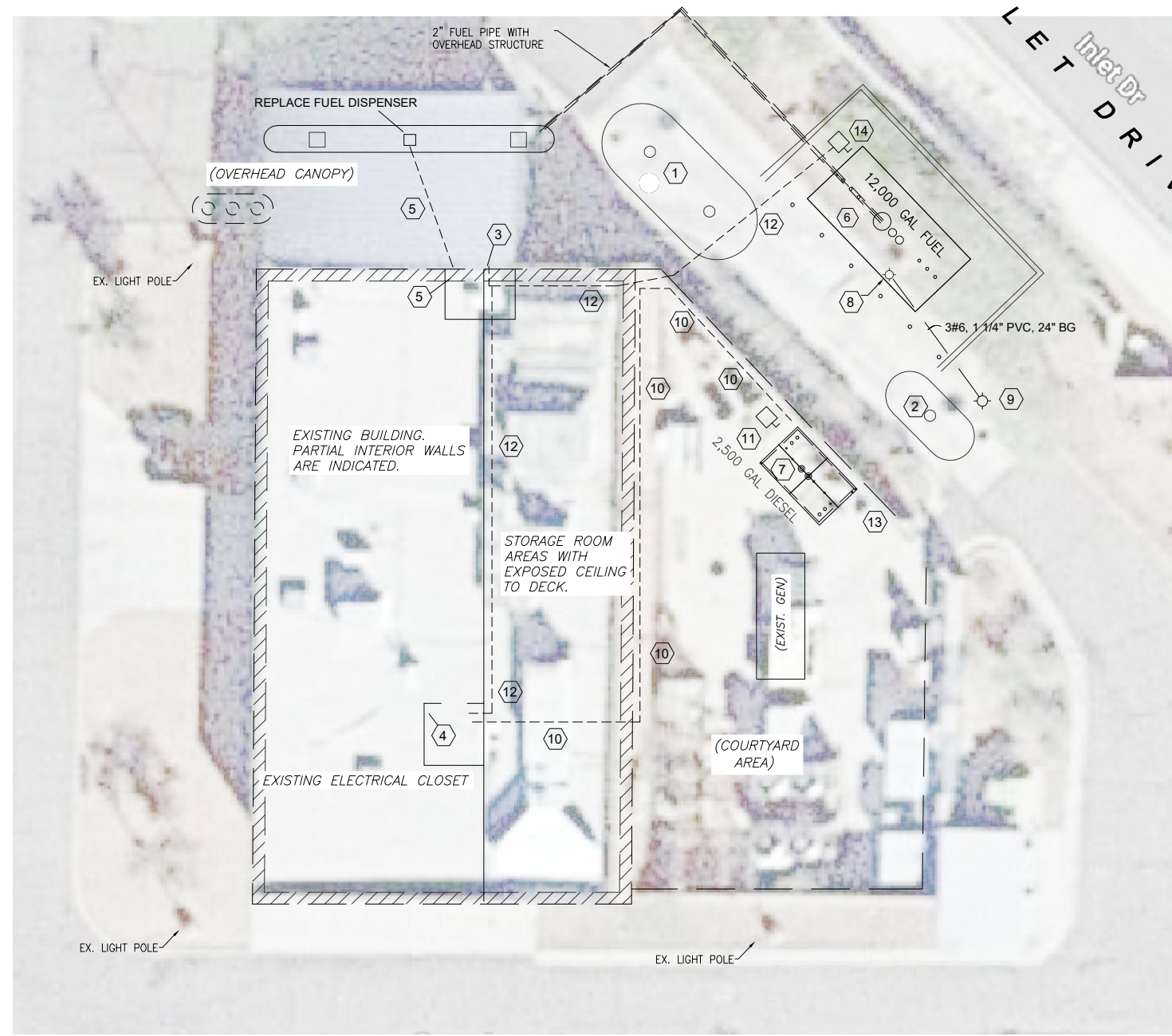
NO.	8-12-22	DATE	DR	S. PERROTTI
NO.		DATE	CHK	A. FIRTH
NO.		DATE	APVD	S. PERROTTI
NO.		DATE	APVD	S. PERROTTI

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 STRUCTURAL DETAILS

REVISIONS ISSUED WITH ADDENDUM NO. 2

DATE	AUGUST 2022
PROJ	103005
DWG	C-4
SHEET	4 of 6



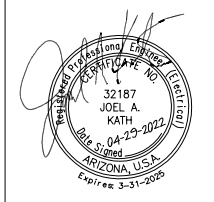
CONSTRUCTION NOTES:

GENERAL:

PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) FOR FUEL TANK STORAGE AND DISPENSING EQUIPMENT AND FACILITIES. PROVIDE WIRING METHODS AND SEALING REQUIREMENTS PER NEC. REPLACE/RESTORE ALL SEALS IN ANY EXISTING CONDUIT THAT MAY BE RETAINED AND REUSED FOR REPLACEMENT EQUIPMENT.

ELECTRICAL CONSTRUCTION NOTES:

- ① EXISTING UNDERGROUND 12,000 GALLON FUEL (GASOLINE) TANK TO BE REMOVED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS INCLUDING PUMP, LEVEL GAUGE AND LEAK DETECTION SENSORS. RETAIN PUMP POWER SOURCE FROM EXISTING PANELBOARD FOR CONNECTION TO NEW ABOVE GROUND GASOLINE FUEL TANK.
- ② EXISTING UNDERGROUND 2,500 GALLON DIESEL TANK TO BE REMOVED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS INCLUDING PUMP, LEVEL GAUGE AND LEAK DETECTION SENSORS.
- ③ EXISTING EMERGENCY FUEL ISLAND GAS DISPENSER SHUT DOWN SWITCH. RETAIN LOCATION. REUSE CONDUIT AND ELECTRICAL BOXES AS SUITABLE, AT CONTRACTOR OPTION. PROVIDE NEW WIRING AND SWITCH FOR NEW GAS DISPENSER.
- ④ EXISTING POWER SOURCE PANELBOARD 120/208V 3 PHASE. LOCATED IN INTERIOR ELECTRICAL CLOSET. ROUTE NEW POWER CIRCUITS FROM THIS LOCATION TO EXTERIOR OF BUILDING. SURFACE MOUNT CONDUIT IN EXPOSED OPEN CEILING AREA BETWEEN CLOSET AND EXTERIOR COURTYARD. SURFACE MOUNT CONDUIT TO EXTERIOR OF BUILDING AS NECESSARY WITHIN COURTYARD AREA.
- ⑤ EXISTING FUEL SYSTEM CONTROL BOX. REMOVE ABANDONED EQUIPMENT. FUEL DISPENSING MONITORING SYSTEM TO BE REPLACED. SEE SPECIFICATIONS. REUSE EXISTING CONDUIT BETWEEN DISPENSING ISLAND AND BUILDING FOR REPLACEMENT CONTROL/MONITORING SYSTEM. PROVIDE NEW CABLE PER MANUFACTURE. RESTORE CONDUIT SEALS PER NEC.
- ⑥ NEW 12,500 GALLON ABOVE GROUND FUEL (GASOLINE) TANK. PROVIDE NEW ELECTRICAL CONNECTION TO PUMP, EMERGENCY DISPENSER SHUT DOWN SWITCH, LEVEL GAUGE AND LEAK DETECTION MONITORING SYSTEMS. SEE DETAILS AND DIAGRAMS.
- ⑦ NEW ABOVE GROUND DIESEL TANK. PROVIDE NEW ELECTRICAL CONNECTION TO PUMP, EMERGENCY DISPENSER SHUT DOWN SWITCH, LEVEL GAUGE AND LEAK DETECTION MONITORING SYSTEMS. SEE DETAILS AND DIAGRAMS.
- ⑧ EXISTING LIGHT POLE. REMOVE POLE AND BASE. REMOVE LIGHT CIRCUIT CONDUCTORS FROM THIS LOCATION TO SOURCE. PROTECT UNDERGROUND CONDUIT FOR USE IN RE-FEEDING NEW LIGHT POLE.
- ⑨ NEW LIGHT POLE AND BASE. RECONNECT TO EXISTING CONDUIT NEAR EXISTING REMOVED LIGHT POLE BASE. PROVIDE NEW CONDUIT AND CONDUCTOR TO RESTORE CIRCUIT. 3#6, 1 1/4" C. 24" B.G. LIGHT AND POLE TO BE 20' ROUND TAPERED STEEL POLE WITH 125W LED. EQUAL TO LITHONIA.
- ⑩ POWER CIRCUIT FOR DIESEL TANK. 3#12, 3/4" EMT POWER. 1-3/4" EMT CONTROL-MONITORING. SURFACE MOUNTED AT 8' A.G. ALONG COURTYARD WALL OF BUILDING AND COURTYARD PERIMETER WALL. TRANSITION TO RSC WITH SEAL-OFFS BEFORE TANK. CONNECT TO DIESEL FUEL PUMP AND HOSE DISPENSER. PROVIDE 20A-2P BREAKER IN EXISTING PANEL.
- ⑪ PROVIDE EXPLOSION PROOF DISCONNECT SWITCH AND CONNECTION TO DIESEL PUMP. COORDINATE CONNECTION POINT OF TANK WITH TANK MANUFACTURER.
- ⑫ CIRCUITS FOR FUEL TANK. 3#12, 3/4" EMT, POWER. AND 1-3/4" EMT FOR CONTROL-MONITORING. CABLE PER MANUFACTURER. ROUTE UNDERGROUND TO BUILDING. TRANSITION TO RSC WITH SEAL-OFFS BEFORE TANK. CONNECT TO FUEL PUMP. CONNECT TO MONITORING EQUIPMENT. WITHIN BUILDING, ROUTE CONDUIT SURFACE MOUNTED WITHIN STORAGE ROOM AND IN OPEN CEILING AREA TO EXISTING ELECTRICAL CLOSET. PROVIDE 20A-2P BREAKER IN EXISTING PANEL.
- ⑬ PROVIDE NEW EMERGENCY SHUT DOWN SWITCH FOR DIESEL FUEL PUMP MOTOR. SURFACE MOUNT TO EXTERIOR WALL.
- ⑭ PROVIDE EXPLOSION PROOF DISCONNECT SWITCH AND CONNECTION TO FUEL PUMP. COORDINATE CONNECTION POINT OF TANK WITH TANK MANUFACTURER.



NO.	DATE	REVISION	BY
1		CHK	JAK
2		CHK	JAK
3		CHK	JAK
4		CHK	JAK
5		CHK	JAK
6		CHK	JAK
7		CHK	JAK
8		CHK	JAK
9		CHK	JAK
10		CHK	JAK
11		CHK	JAK
12		CHK	JAK
13		CHK	JAK
14		CHK	JAK
NO. DSGN		DR	APVD
			JAK

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LAKE HAVASITE, AZ 86403
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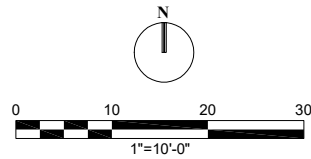
ENGINEERS INC
PHOENIX, AZ 85008
www.tricoengineers.com

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ENGINEERING, LLC

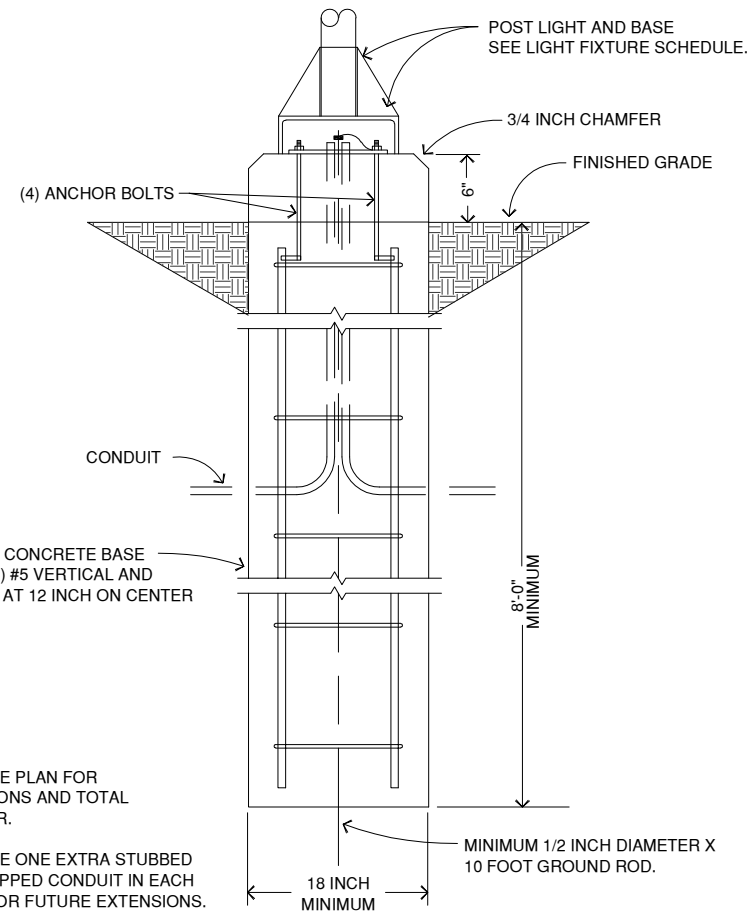
POLICE FUEL FACILITY
103005
LAKE HAVASITE CITY
LAKE HAVASITE CITY
LAKE HAVASITE CITY

Jacobs

ELECTRICAL
ELECTRICAL PLAN



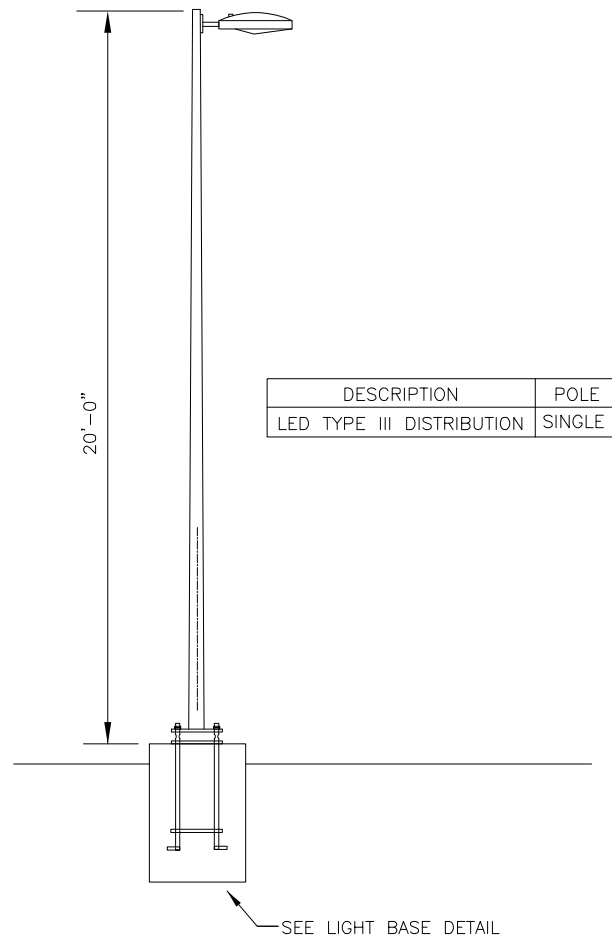
1" = 10'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	JULY 2022
PROJ	21-009
DWG	E1
SHEET	5 of 6



NOTES:

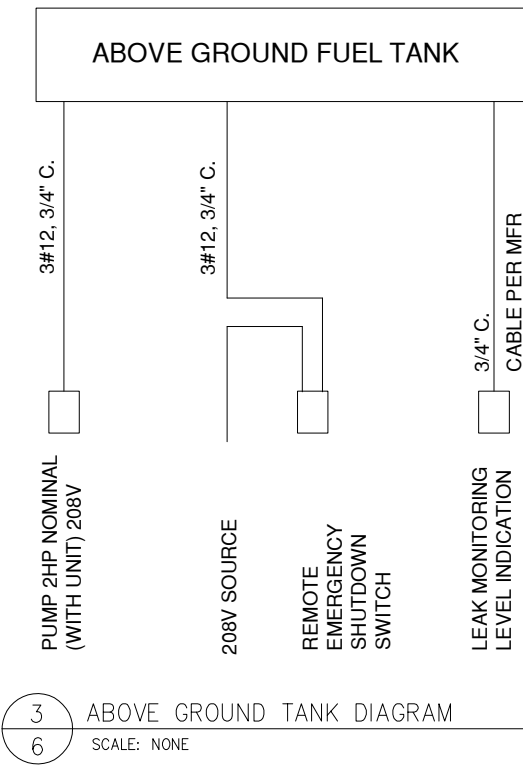
- SEE SITE PLAN FOR LOCATIONS AND TOTAL NUMBER.
- PROVIDE ONE EXTRA STUBBED AND CAPPED CONDUIT IN EACH BASE FOR FUTURE EXTENSIONS.
- VERIFY DEPTH AND WIDTH OF BASE WITH LIGHT FIXTURE MANUFACTURER. MINIMUM SIZES AS SHOWN.

1 LIGHT BASE DETAIL
6 SCALE: NONE



2 LIGHT STANDARD DETAIL
6 SCALE: NONE

LUMINAIRE SCHEDULE												
Pole	Manufacturer	Catalog Information	Lamp Data		Driver Data		Voltage	Mounting	Pole Height	Base Height	Fixture Description	Remarks
			No.	Type	No.	mA						
P1	LITHONIA	LITHONIA	MULTI	LED 4000 K	CD	492	208	DAVIT	20'	6"	ATBM P30 PERFORMANCE PACKAGE, 4000K COLOR TEMPERATURE, ROADWAY TYPE IV DISTRIBUTION.	TYPE XHFW TO BE USED WITHIN POLES.



3 ABOVE GROUND TANK DIAGRAM
6 SCALE: NONE

TYPICAL - 2 EACH. GASOLINE AND DIESEL.

PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) FOR FUEL TANK STORAGE AND DISPENSING EQUIPMENT AND FACILITIES. PROVIDE WIRING METHODS AND SEALING REQUIREMENTS PER NEC. PROVIDE INSTALLATION AND CABLE TYPES PER MANUFACTURER RECOMMENDATIONS.



NO.	DATE	DR	REVISION	CHK	BY	APVD
				JAK		JAK

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928-185-5216

JACOBS

ELECTRICAL
ELECTRICAL DETAILS

1" = 10'
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DATE	JULY 2022
PROJ	21-009
DWG	E2
SHEET	6 of 6