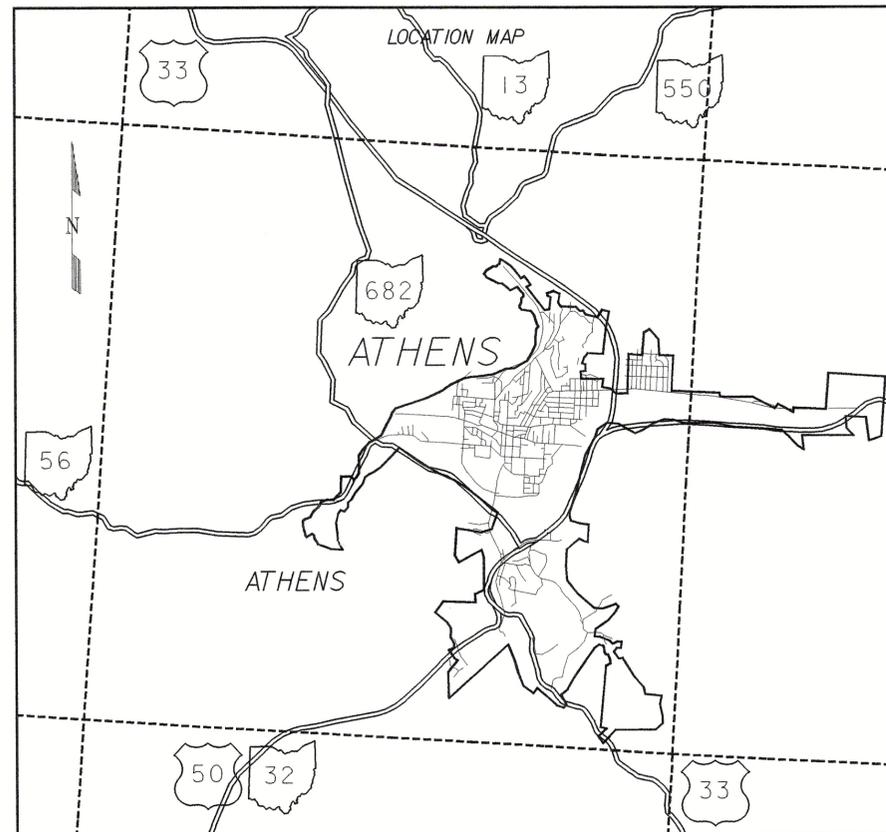


# OHIO DEPARTMENT OF TRANSPORTATION ATHENS COUNTY GARAGE ABOVE GROUND FUEL TANK

P. O. NO.

OWNER  
ATHENS Co.  
9860142



INDEX OF SHEETS:

- 1 TITLE SHEET
- 2 SITE PLAN
- 3 SLAB AND BOLLARD DETAIL

1997 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

PLAN APPROVAL IS SUBJECT TO THE REQUIREMENTS OF:

- Ohio Basic Building Code, Chapter 29 Plumbing, Contact Department of Construction Compliance Plumbing Section or Local Health Department for jurisdiction information.
- PLUMBING APPROVAL IS NOT INCLUDED IN THIS PLAN EXAMINATION AND APPROVAL.
- Ohio Elevator Code
- Ohio Fire Code
- Ohio Boiler and Unfired Vessels Rules
- Ohio Pressure Piping Systems Rules
- And all other requirements of the Ohio Revised Code, Local Zoning and other regulations.

USE GROUP: 2C  
CONSTRUCTION TYPE: 2C

CONSTRUCTION AND SPECIFICATION COMPLIANCE WITH LOCAL APPLICABLE PLANS AND SPECIFICATIONS IN ACCORDANCE WITH THE OHIO REVISED CODE, SECTION 3791.04.

ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

OHIO DEPARTMENT OF COMMERCE  
DIVISION OF INDUSTRIAL COMPLIANCE  
BUREAU OF  
CONSTRUCTION COMPLIANCE  
**APPROVED**  
WITH ADDENDUM

DATE: 4-21-98  
PLAN EXAMINER: Jw L

LIMITATION: (SEE ADDENDUM)  
Reviewed to 1990 edition of NFPA 30 and 30A

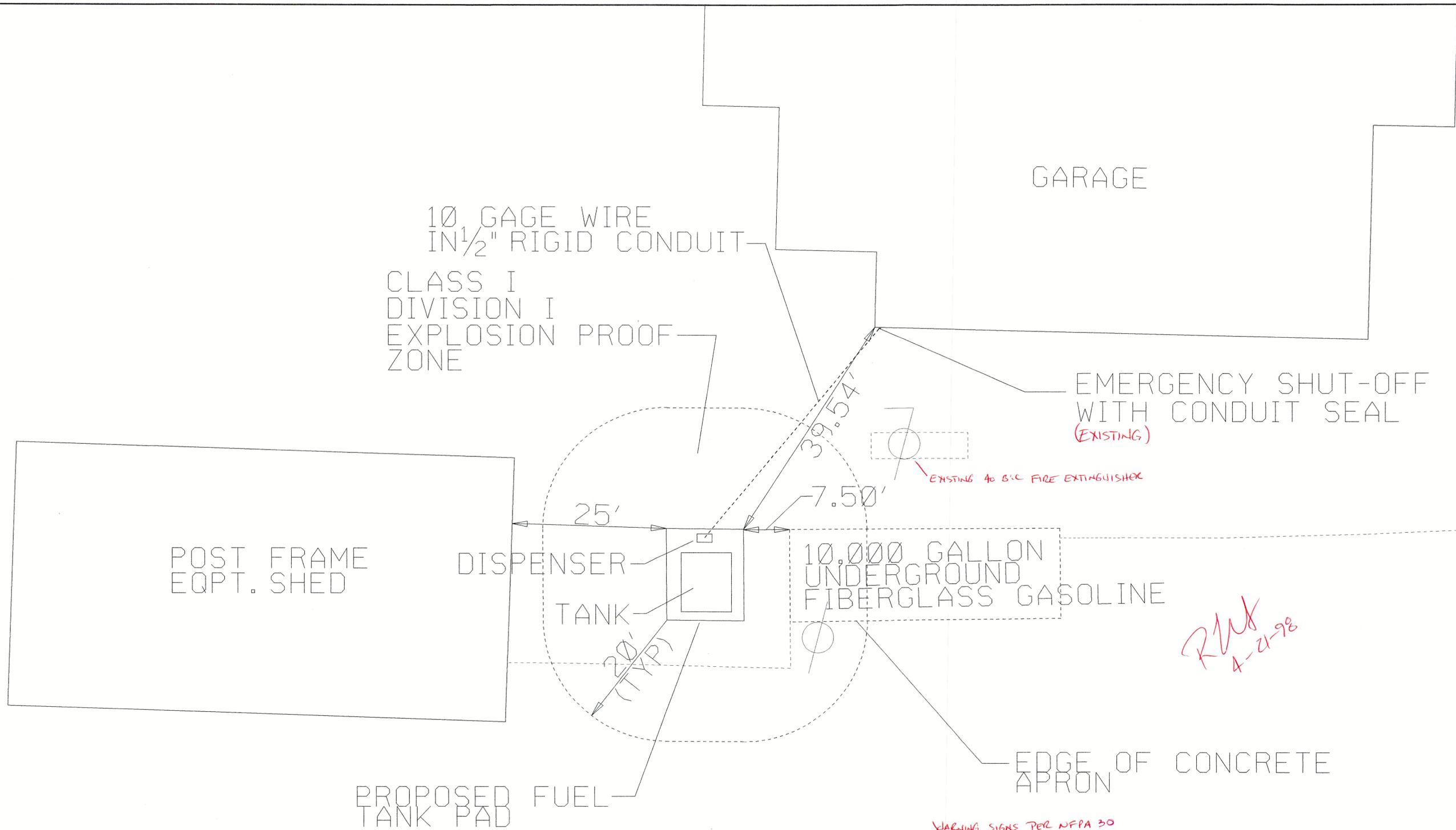
UNDERGROUND UTILITIES  
TWO WORKING DAYS  
**BEFORE YOU DIG**  
CALL 1-800-362-2764 (TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

DISTRICT 10  
SPECIAL PROJECTS

STATE OF OHIO  
DEBRA K. FOVHT  
REGISTERED PROFESSIONAL ENGINEER

TITLE SHEET



EMERGENCY SHUT-OFF WITH CONDUIT SEAL (EXISTING)

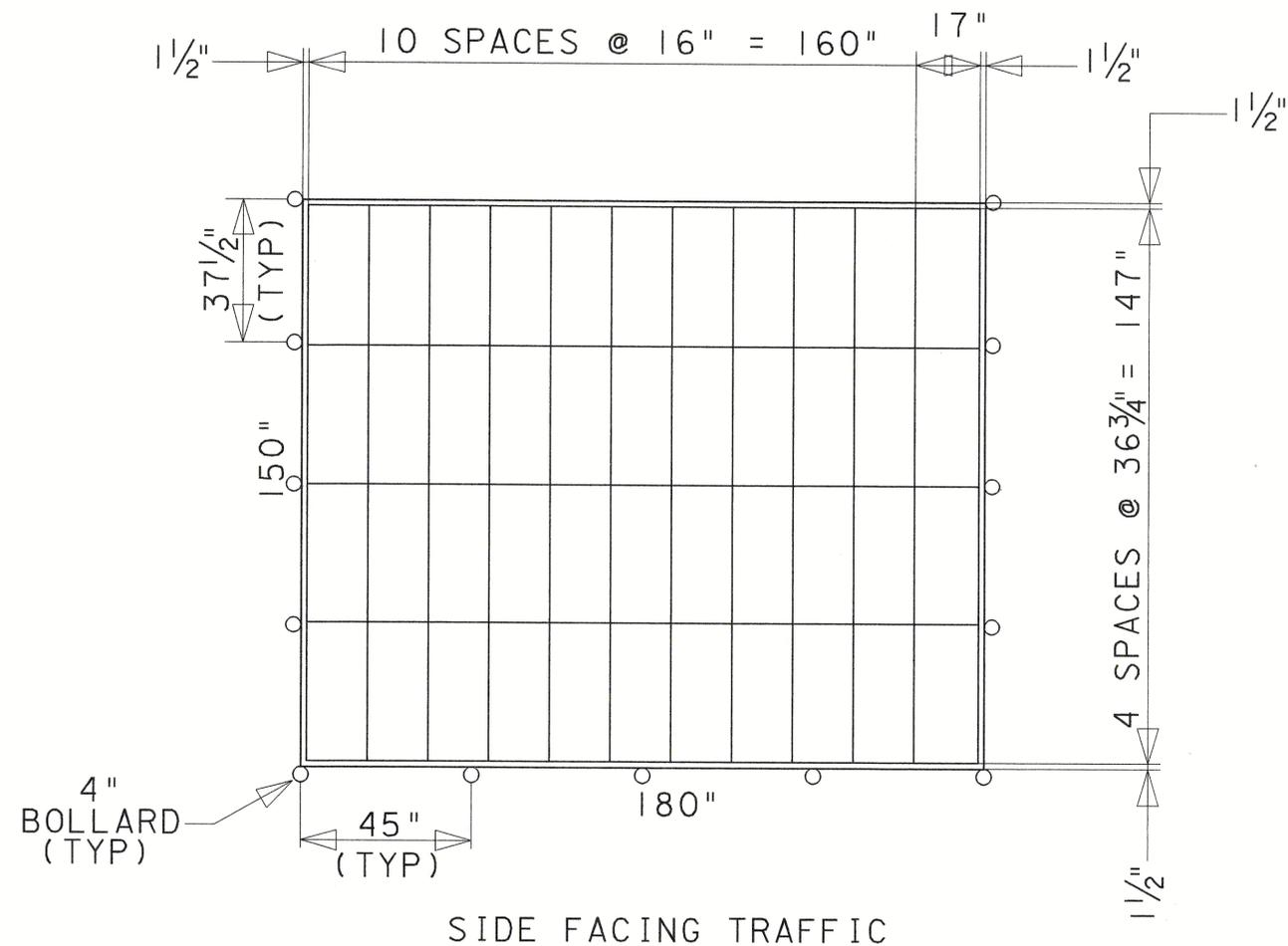
EXISTING 40 B.C. FIRE EXTINGUISHER

*RWK  
4-21-98*

WARNING SIGNS PER NFPA 30

1000 GALLON FUEL TANK SLAB AND BOLLARD DETAIL





SIDE FACING TRAFFIC

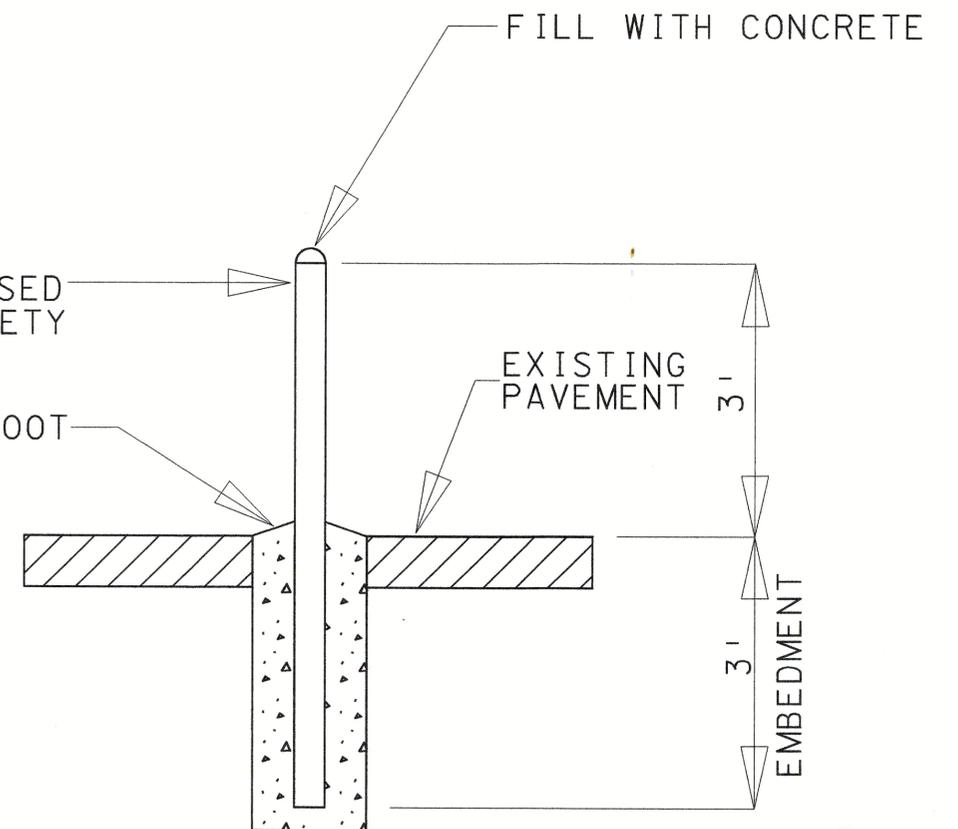
SLAB DIMENSIONS AND REINFORCEMENT PLAN

SLAB THICKNESS = 9 1/4"  
 #5 BARS  
 $f_y = 60$  ksi  
 3" BOTTOM COVER  
 $f'_c = 4500$  psi  
 AIR ENTRAINMENT = 3%

- NOTE: 1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ARTICLE 27 OF THE OHIO BASIC BUILDING CODE (OBBC) AND THE NATIONAL ELECTRICAL CODE NFPA 70, MOST RECENT OBBC APPROVED EDITION, AND SHALL BE SUBJECT TO THE APPROVAL OF THE STATE ELECTRICAL INSPECTOR ASSIGNED BY THE DIVISION OF FACTORY AND BUILDING INSPECTION IN ACCORDANCE WITH SECTION 2700.1 OF THE OBBC.
2. THE TANK SHALL COMPLY WITH THE STEEL TANK INSTITUTE'S FIREGUARD SPECIFICATION (COMPLIANCE WITH: UL 2085, UL 142 FOR BOTH INNER AND OUTER TANK, UNIFORM FIRE CODE APPENDIX II-F, NFPA 30 AND 30A BALLISTIC AND IMPACT PROTECTION PER UFC APPENDIX II-F AND UL 2085, STEEL TANK INSTITUTE STANDARD F941 FOR THERMALLY INSULATED ABOVEGROUND STORAGE TANKS).

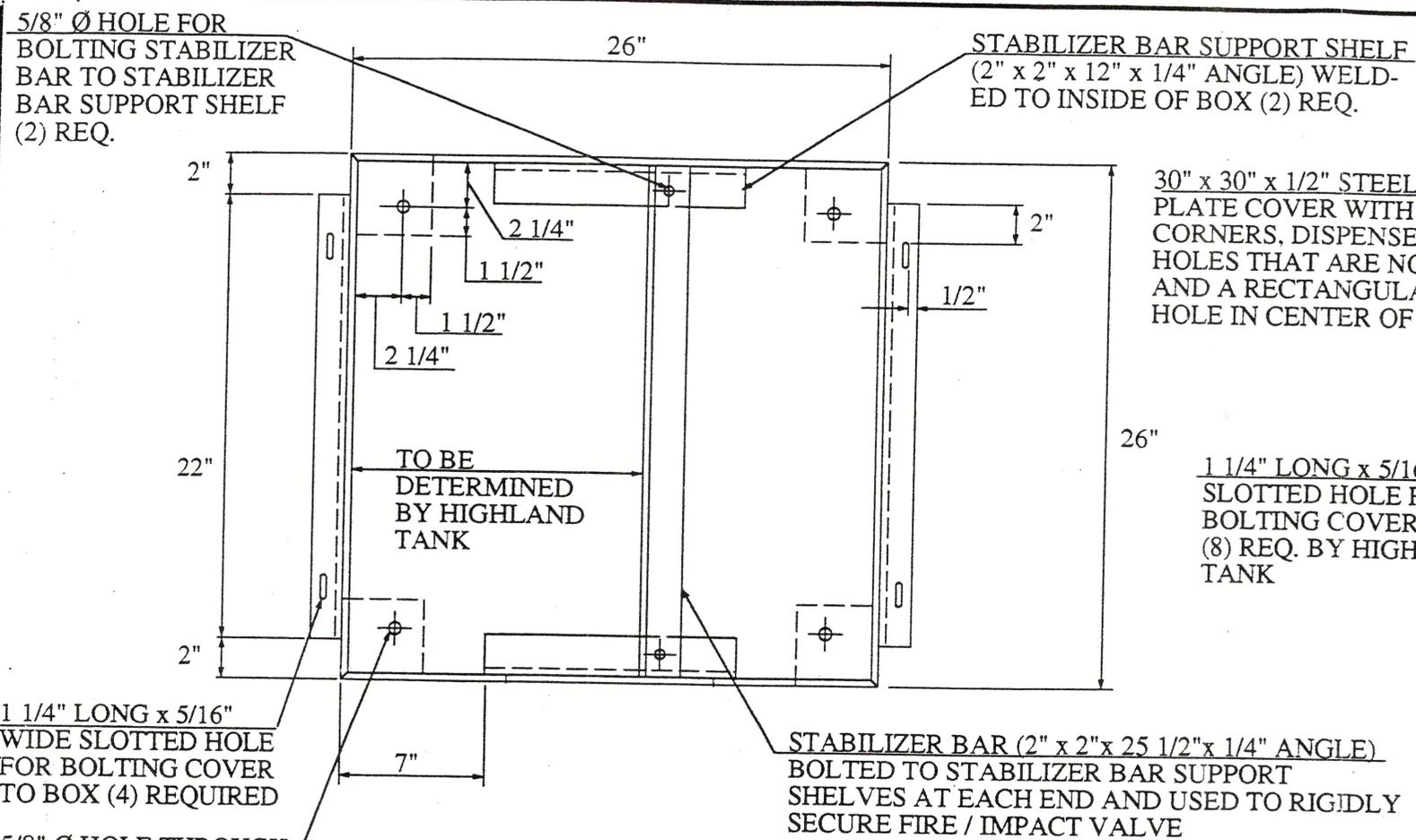
4" Ø SCH. 80  
 BLACK STEEL PIPE  
 TRIPLE COAT EXPOSED  
 PORTION WITH SAFETY  
 YELLOW PAINT

SLOPE 1/4" / FOOT

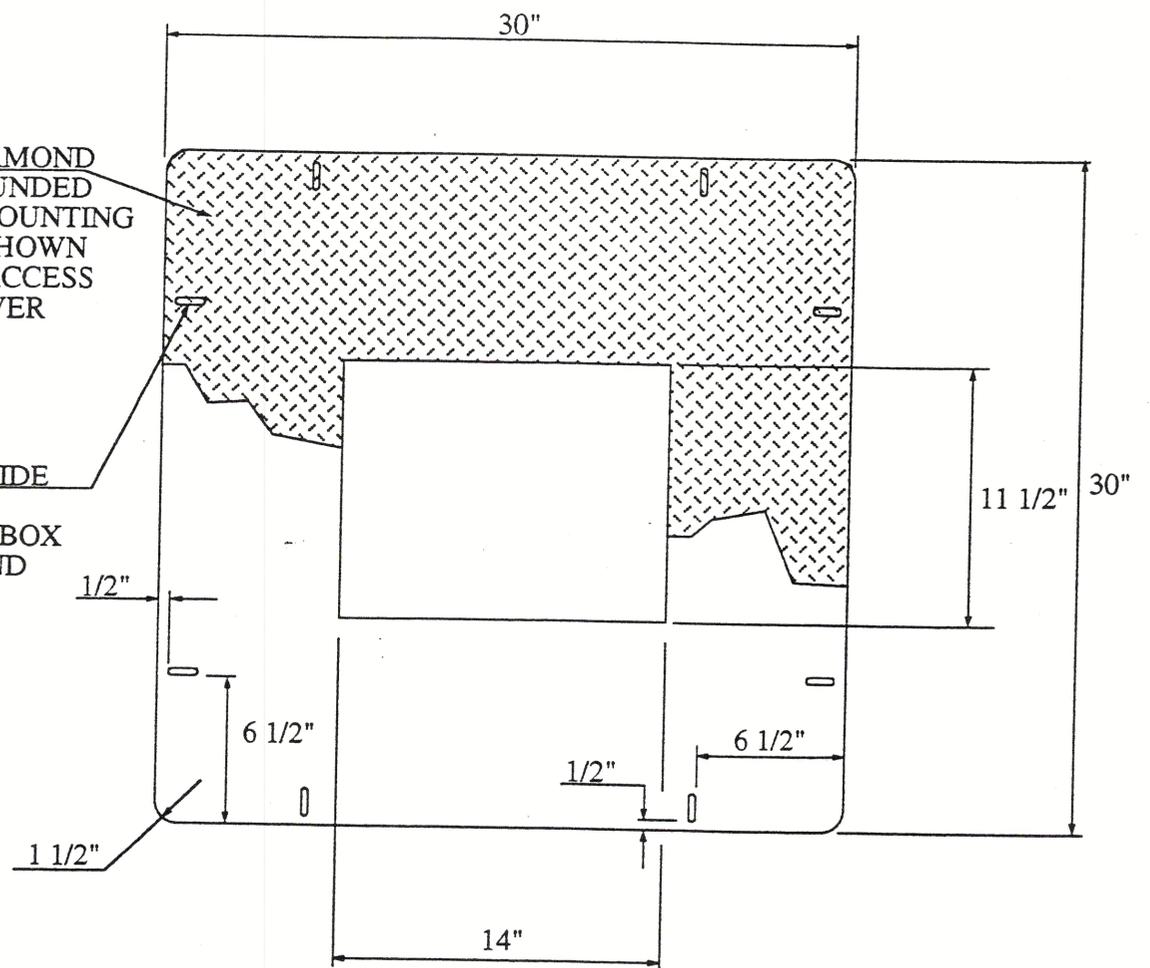


BOLLARD DETAIL

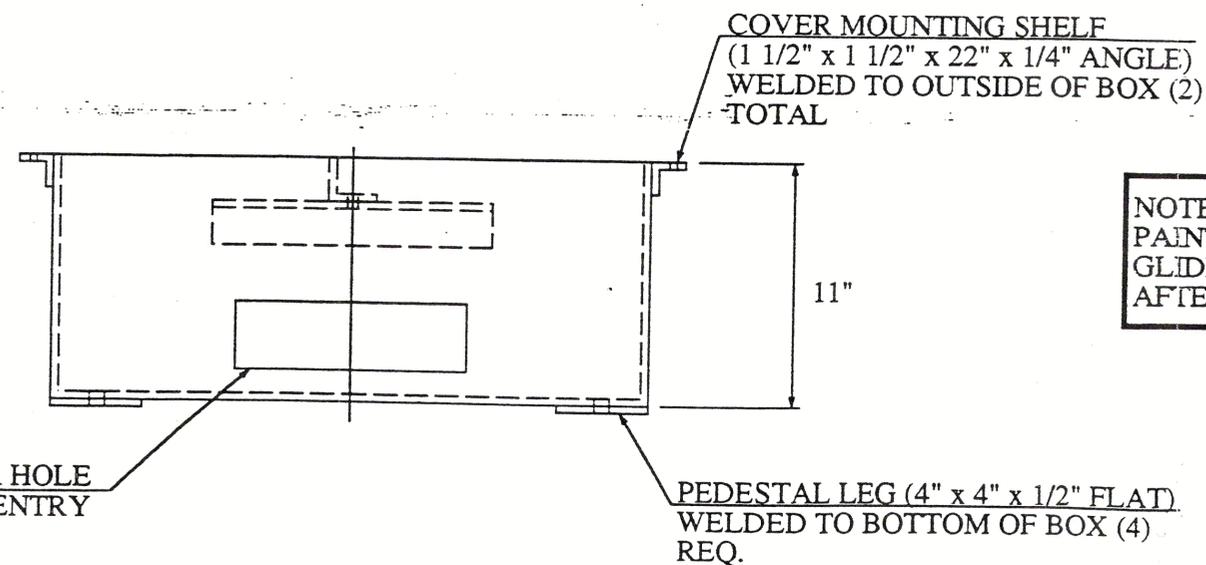




**PLAN**



**PLAN VIEW OF COVER ONLY**



**ELEVATION**

NOTE:  
PAINT BLACK. (2) COAT SYSTEM BY GLIDDEN. PAINTING TO OCCUR AFTER ALL HOLES ARE DRILLED.

NOTE:  
HIGHLAND TANK & MFG. CO. SHALL BE RESPONSIBLE ONLY FOR ITEMS INDICATED ON THIS FABRICATION DRAWING. CONTRACTOR OR OTHERS SHALL BE RESPONSIBLE FOR ANY ITEMS NOT INDICATED ON DRAWING INCLUDING, BUT NOT LIMITED TO, INTERNAL EXTERNAL PIPING - COATINGS - FITTINGS - ACCESSORIES, ETC. APPROVER OF DRAWING SHALL BE RESPONSIBLE FOR VERIFYING CORRECTNESS OF SIZE / LOCATION OF FITTINGS, ACCESSORIES, COATINGS, ETC. HIGHLAND TANK & MFG. CO. SHALL FABRICATE TANK IN ACCORDANCE TO THIS DRAWING (WHICH MAY OR MAY NOT BE IN EXACT ACCORDANCE TO PLANS AND SPECIFICATIONS).

(2)	1-22-98	- ADDED PAINTING NOTE - SHOWED HOLES BY HIGHLAND TANK - SHOWED DIMENSION OF STABILIZER BAR BY HIGHLAND TANK	REM
(1)	1-9-98	REV. HOLES IN STABILIZER BAR TO 5/8" Ø FROM 1/2" Ø	REM

HIGHLAND TANK & MFG. CO.

CUSTOMER: RELIABLE OIL EQUIPMENT INCORPORATED  
OHIO DEPARTMENT OF TRANSPORTATION

**DISPENSER PEDESTAL DETAIL**

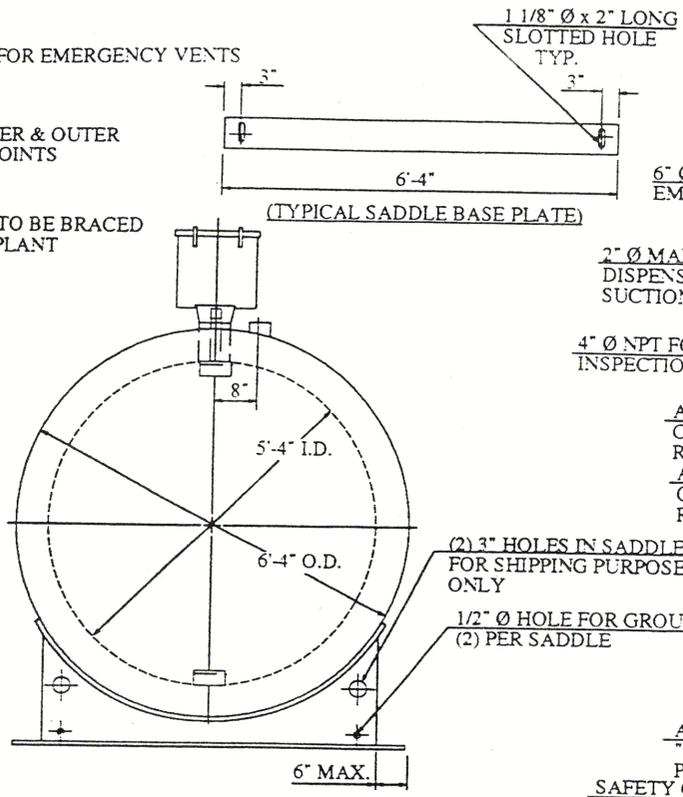
SCALE:	DATE:	DRN. BY:	CHKD. BY:	DWG. NO.
NONE	12-18-97	REM		971218 R-B

NOTE:  
TIE DOWN HOLES IN SADDLES DESIGNED FOR SHIPPING PURPOSES ONLY

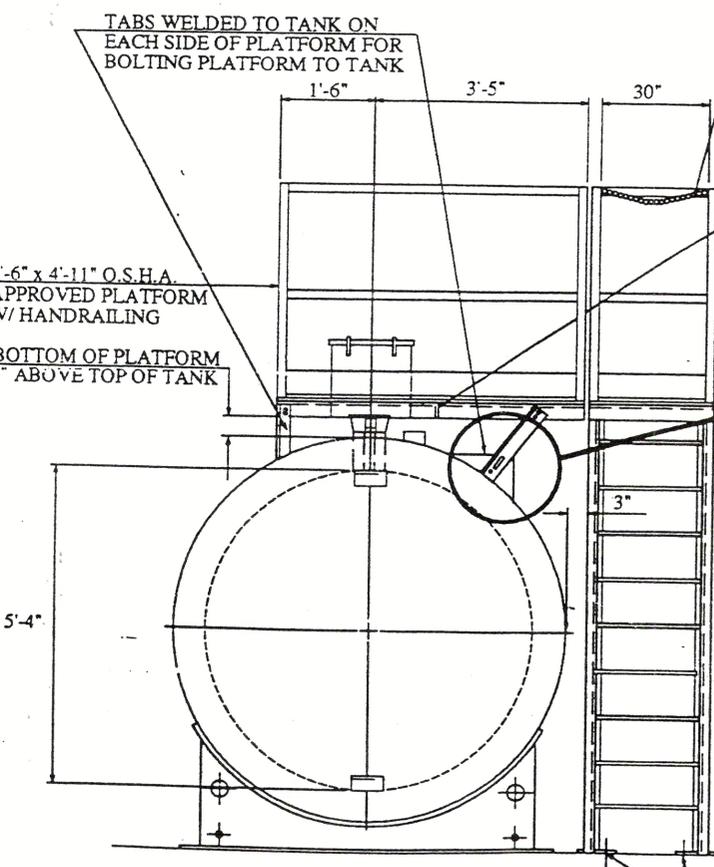
NOTE:  
FITTINGS ONLY FOR EMERGENCY VENTS PROVIDED

NOTE:  
6" BETWEEN INNER & OUTER TANKS AT ALL POINTS

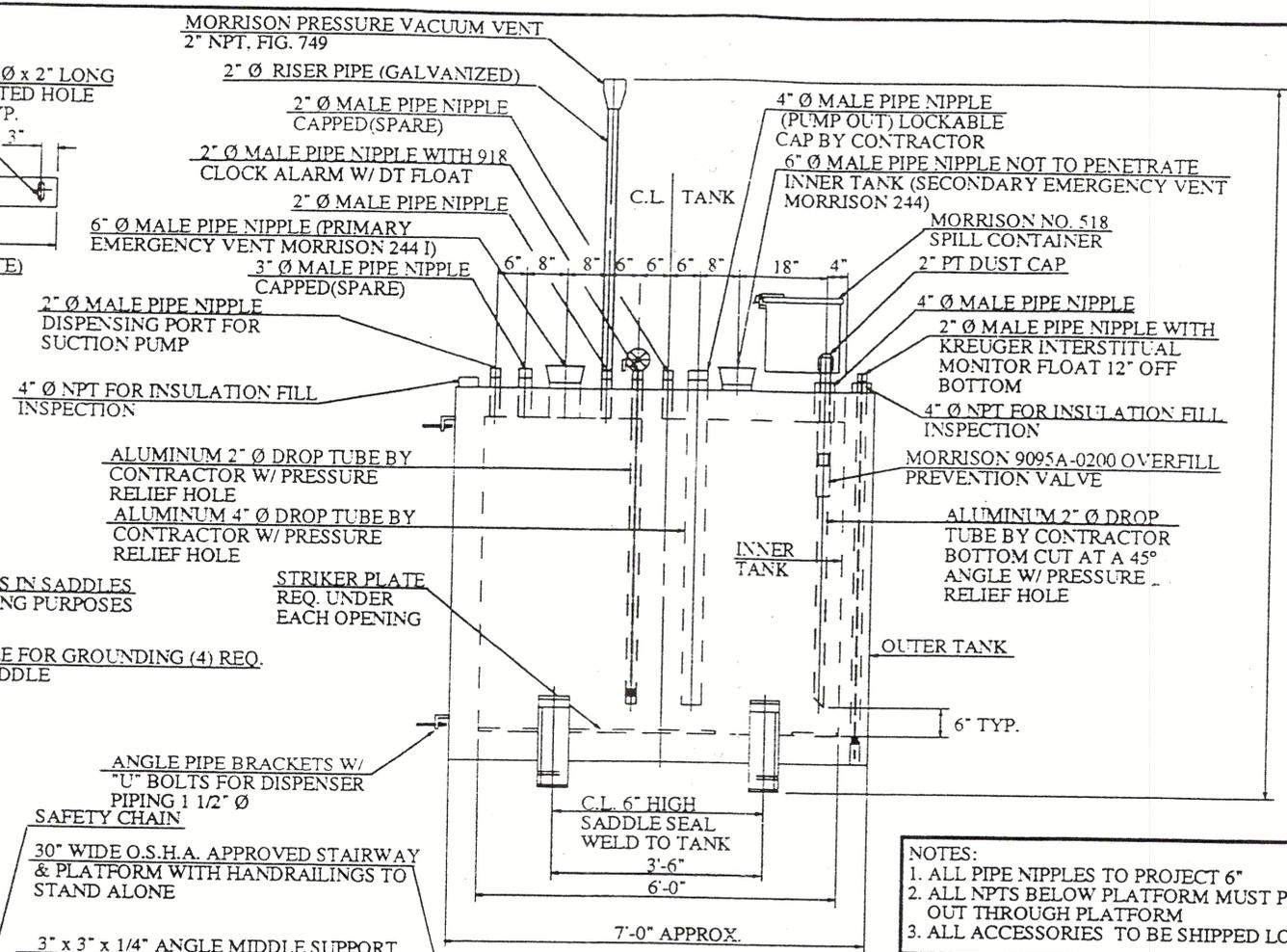
NOTE:  
INTERNAL PIPES TO BE BRACED AS NEEDED BY PLANT



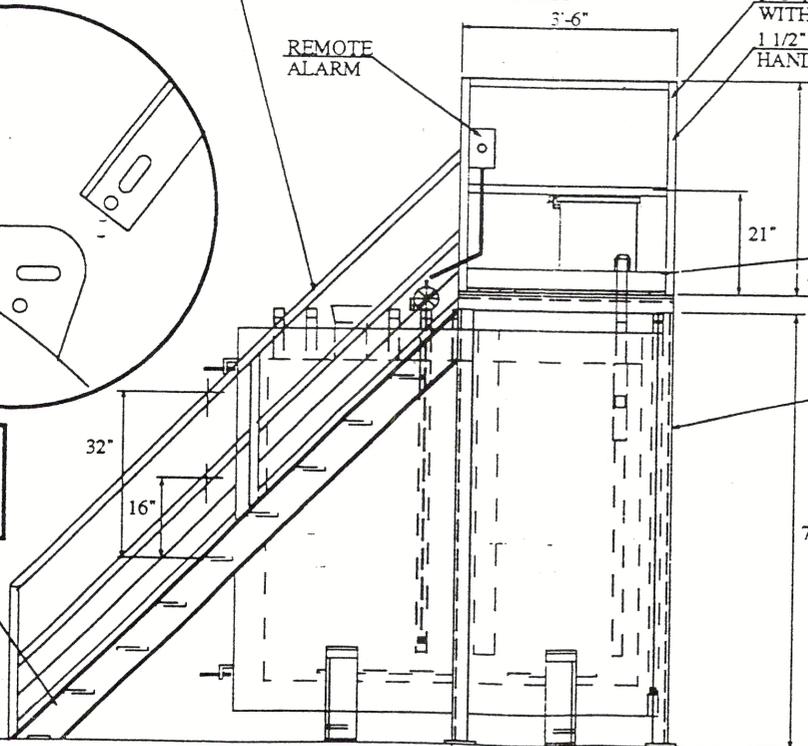
END VIEW



END VIEW SHOWING PLATFORM



ELEVATION



ELEVATION SHOWING PLATFORM

GENERAL NOTES

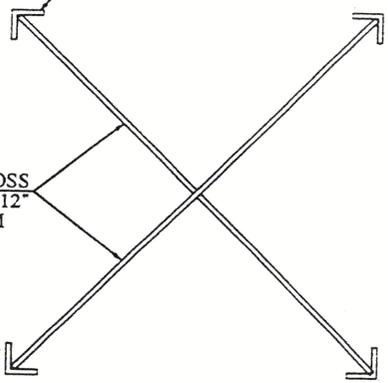
CAPACITY: 1000 GALLONS  
 TYPE: FIREGUARD  
 NO. REQ. (1)  
 MATERIAL: MILD CARBON STEEL PLATE  
 TEST: PER U.L.2085  
 GAUGE OR THICKNESS: 7 GA. THROUGHOUT  
 PAINT:  
 INTERIOR: NONE  
 EXTERIOR: FIREGUARD WHITE (2) COAT SYSTEM BY GLIDDEN. PAINTING TO OCCUR AFTER HOLES ARE DRILLED  
 CONSTRUCTION: LAP WELD EXTERIOR SEAMS  
 APPROVED LABELS: U.L. 2085, SEE SECTION (4) OF SPECIFICATIONS

12'-0" O.A.H. FROM GRADE TO TOP OF VENT PIPE

NOTE:  
HIGHLAND TANK & MFG. CO. SHALL BE RESPONSIBLE ONLY FOR ITEMS INDICATED ON THIS FABRICATION DRAWING. CONTRACTOR OR OTHERS SHALL BE RESPONSIBLE FOR ANY ITEMS NOT INDICATED ON DRAWING INCLUDING, BUT NOT LIMITED TO, INTERNAL EXTERNAL PIPING - COATINGS - FITTINGS - ACCESSORIES, ETC. APPROVER OF DRAWING SHALL BE RESPONSIBLE FOR VERIFYING CORRECTNESS OF SIZE / LOCATION OF FITTINGS, ACCESSORIES, COATINGS, ETC. HIGHLAND TANK & MFG. CO. SHALL FABRICATE TANK IN ACCORDANCE TO THIS DRAWING (WHICH MAY OR MAY NOT BE IN EXACT ACCORDANCE TO PLANS AND SPECIFICATIONS).

NOTES:  
 1. ALL PIPE NIPPLES TO PROJECT 6"  
 2. ALL NPTS BELOW PLATFORM MUST PROJECT OUT THROUGH PLATFORM  
 3. ALL ACCESSORIES TO BE SHIPPED LOOSE

3" x 3" x 1/4" ANGLE LEGS (4) REQUIRED



2" X 1/4" FLAT CROSS BRACES APPROX. 12" UP FROM BOTTOM OF LEGS

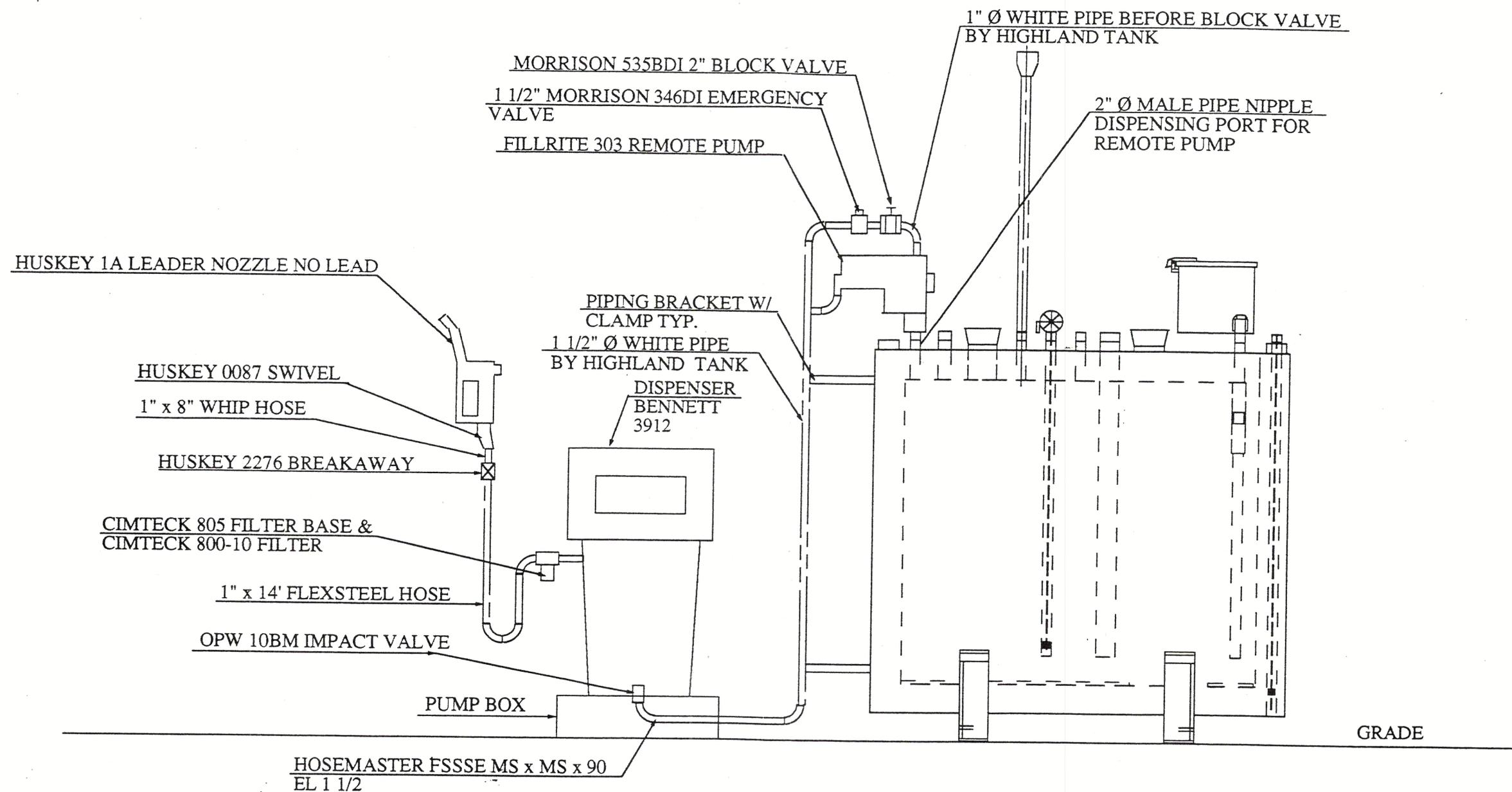
PLAN VIEW OF ANGLE LEGS

NO.	DATE	DESCRIPTION	BY
4	1-23-98	- SHOWED 7" NPT FIG. 749 FOR PRESSURE VACUUM VENT - REV. TO REFER TO REMOTE PUMP AS SUCTION PUMP - REVISED CLOCK ALARM TO MODEL 918 - SHOWED LOCKABLE PUMPOUT CAP BY CONTRACTOR - SHOWED GLIDDEN PAINT SYSTEM - ADDED PLATFORM AND STAIRWAY RAILING HEIGHTS - ADDED NOTE FOR ADDITIONAL SUPPORT FOR GRATING SPANS OVER 35"	REM
3	1-13-98	- REV. HOLES IN SADDLE BASE PLATES TO SLOTS TYP. - SHOWED INTERSTITIAL MONITOR FLOAT 12" OFF BOTTOM - ADDED PRESSURE RELIEF HOLE IN INTERNAL PIPES - ADDED 3" ANGLE FOR PLATFORM SUPPORT - REV. TO SHOW (2) PLATFORMS - REV. FRP GRATING TO 1 1/2"	REM
2	1-7-97	- APPROVED LABELS SEE SECTION 4 OF SPEC - SHOWED VENT RISER PIPE BY H.T., 12'-0" O.A.H., GALVANIZED - SHOWED PUMPOUT CAPPED BY CONTRACTOR - SHOWED DROP TUBES ALUMINUM BY CONTRACTOR - MOVED MONITOR PIPE TO OPPOSITE END - ADDED PIPE BRACKETS FOR DISPENSER - REVISED HOLES IN SADDLE BASE PLATES - ADDED REMOTE ALARM - ADDED SAFETY CHAIN ON STAIRS - MADE STAIRWAY 30" WIDE - SHOWED GRATING AS 1" FRP - ADDED GROUNDING HOLES IN SADDLES - ADDED TABS FOR BOLTING STAIRS DOWN - REV. TO SHOW (2) PLATFORMS - REV. TO SHOW (2) PLATFORMS	REM
1	1-5-98	- STAIRWAY, PLATFORM AND HANDRAILING TO BE GALVANIZED - REVISED STAIRWAY RUNNERS TO 10" CHANNELS - REVISED PLATFORM LENGTH TO 7'-0" - REVISED SADDLE BASE PLATES - CHANGED PRESSURE VACUUM VENT TO MORRISON	FRP

NOTE:  
CUT HOLES IN PLATFORM TO ACCOMADATE TANK FITTINGS

NOTE:  
STAIRWAY PLATFORM AND HANDRAILINGS ARE GALVANIZED. GRATING TO BE 1 1/2" FRP

REVISIONS			
HIGHLAND TANK & MFG. CO.			
CUSTOMER: RELIABLE OIL EQUIPMENT INCORPORATED OHIO DEPARTMENT OF TRANSPORTATION			
SCALE	DATE	DRN. BY:	CHKD. BY:
NONE	11-21-97	REM	
			DWG. NO. 971121 R-F



**REMOTE PUMP & DISPENSING UNIT TYP. ALL TANKS (GAS)**

NOTE:  
 HIGHLAND TANK & MFG. CO. SHALL BE RESPONSIBLE ONLY FOR ITEMS INDICATED ON THIS FABRICATION DRAWING. CONTRACTOR OR OTHERS SHALL BE RESPONSIBLE FOR ANY ITEMS NOT INDICATED ON DRAWING INCLUDING, BUT NOT LIMITED TO, INTERNAL EXTERNAL PIPING - COATINGS - FITTINGS - ACCESSORIES, ETC. APPROVER OF DRAWING SHALL BE RESPONSIBLE FOR VERIFYING CORRECTNESS OF SIZE / LOCATION OF FITTINGS, ACCESSORIES, COATINGS, ETC. HIGHLAND TANK & MFG. CO. SHALL FABRICATE TANK IN ACCORDANCE TO THIS DRAWING (WHICH MAY OR MAY NOT BE IN EXACT ACCORDANCE TO PLANS AND SPECIFICATIONS).

(3)	1-29-98	- REV. EMERGENCYVALVE WORDING	REM
(2)	1-22-98	- SHOWED 1" Ø PIPE BEFOR BLOCK VALVE - SHOWED EMERGENCYVALVE AS 1 1/2" - SHOWED BENNETT 9312 FOR DISPENSER	REM
(1)	1-9-98	MOVED LEAK MONITOR PIPE	REM
NO.	DATE	DESCRIPTION	BY
REVISIONS			
HIGHLAND TANK & MFG. CO.			
CUSTOMER: RELIABLE OIL EQUIPMENT INCORPORATED OHIO DEPARTMENT OF TRANSPORTATION			
SCALE:	DATE:	DRN. BY:	CHKD. BY:
NONE	11-22-97	REM	
			DWG. NO. 971122 R-A