

|

DRAFT

ATTACHMENT IV-1

TANK SYSTEMS AND DRAWINGS

Table of Contents

IV.A. Stabilization Tank System..... 1  
IV.A.1. Tank System Engineering Drawings ..... 1  
IV.B. Leachate Tank System ..... 2  
IV.B.1. Leachate Tank System Engineering Drawings ..... 2

DRAFT

#### IV.A. Stabilization Tank System

~~IV.A.1.~~—The Stabilization Tank System includes the following tanks:

1. Stabilization Tank 1 (Tank 122-TN-001), ~~which~~ is the west tank;
2. Stabilization Tank 2 (Tank 122-TN-002), ~~which~~ is the center tank; and
3. Stabilization Tank 3 (Tank 122-TN-003), ~~which~~ is the east tank.

~~The location of the tanks can be seen on Figure 4-1 of this attachment.~~

The Stabilization Tanks are double-walled, open-topped tanks and are supported by a reinforced concrete foundation. Secondary containment for the Stabilization Tanks is provided by a secondary tank which surrounds the side walls and floor of the primary tank in accordance with the requirements ~~of 40 CFR §264.193(e)(3)~~ R315-264-193(e)(3) of the Utah Administrative Code (UAC). The floor of the secondary tank is sloped to drain a release from the primary tank and allow detection of the release within 24 hours.

~~The Pug Mill is an above-ground tank supported on a structural steel stand. The Pug Mill is located within a reinforced concrete secondary containment area. The secondary containment system for the Pug Mill has been designed and constructed in accordance with paragraph H.C of Attachment TAA of Module IV. Leak detection for the Pug Mill is provided by visual inspection of the area beneath the tank.~~

#### IV.A.21. Tank System Engineering Drawings

The following table identifies the drawing associated with the Stabilization Tanks ~~and the Pug Mill~~.

Unit Description	Drawing Number
Stabilization Tank Plan and Details	D-32-20-703
Stabilization Tanks; Secondary Tank Plan	D-32-20-704
Stabilization Tank Foundation Plan and Sections	D-32-20-201
Foundation Sections and Details	D-32-20-202
<u>Pug Mill Plan and Elevations</u>	<u>D 32 20 401</u>

**IV.B. Leachate Tank System**

~~IV.B.1.~~The Leachate Tank System includes ~~the following tanks:~~

~~Leachate Tank 119 TN 001 (INACTIVE);~~

~~21.~~Leachate Tank 119-TN-002;

~~3. Leachate Tank 119 TN 003 (INACTIVE)~~

~~4. Leachate Tank 119 TN 004 (INACTIVE)~~

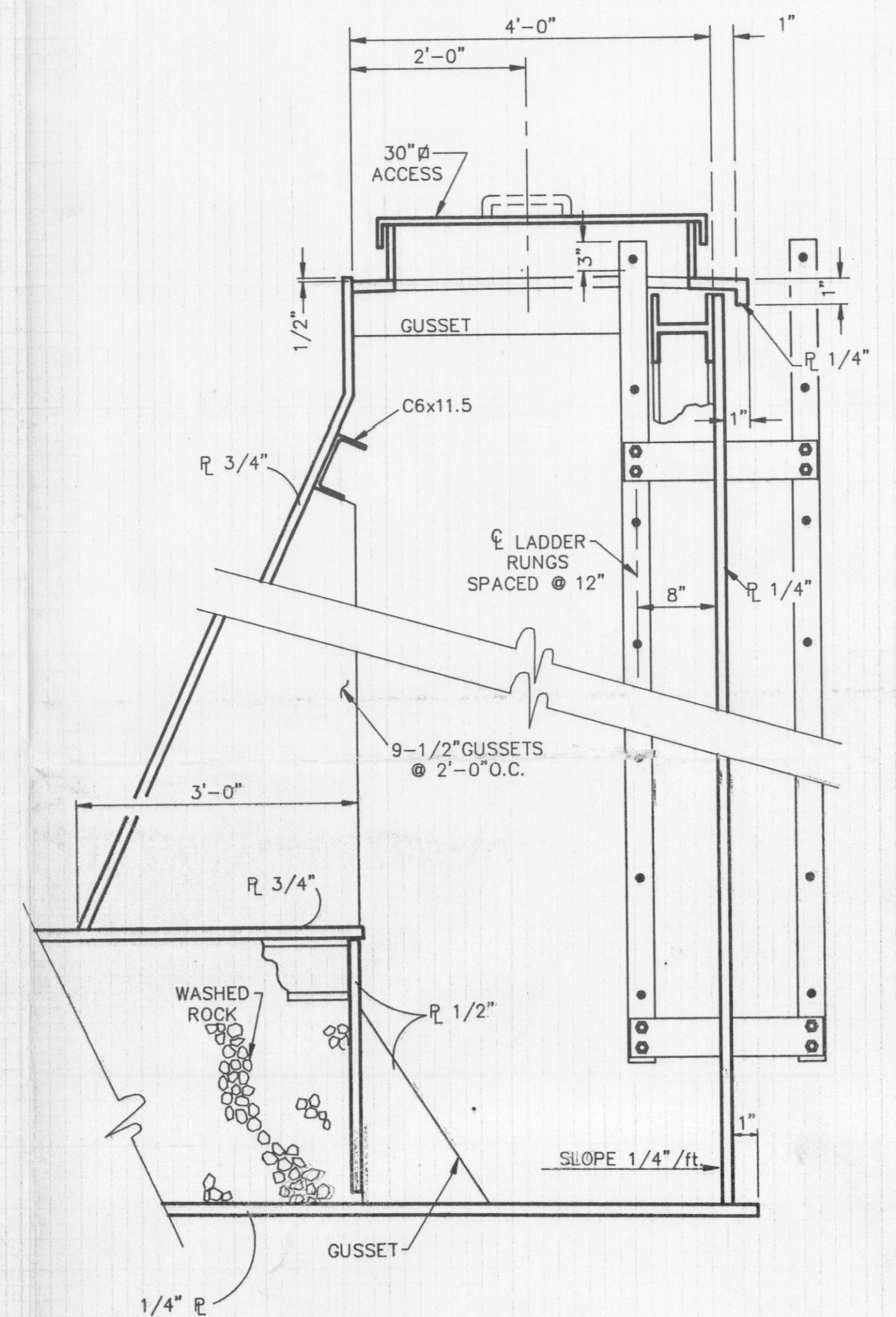
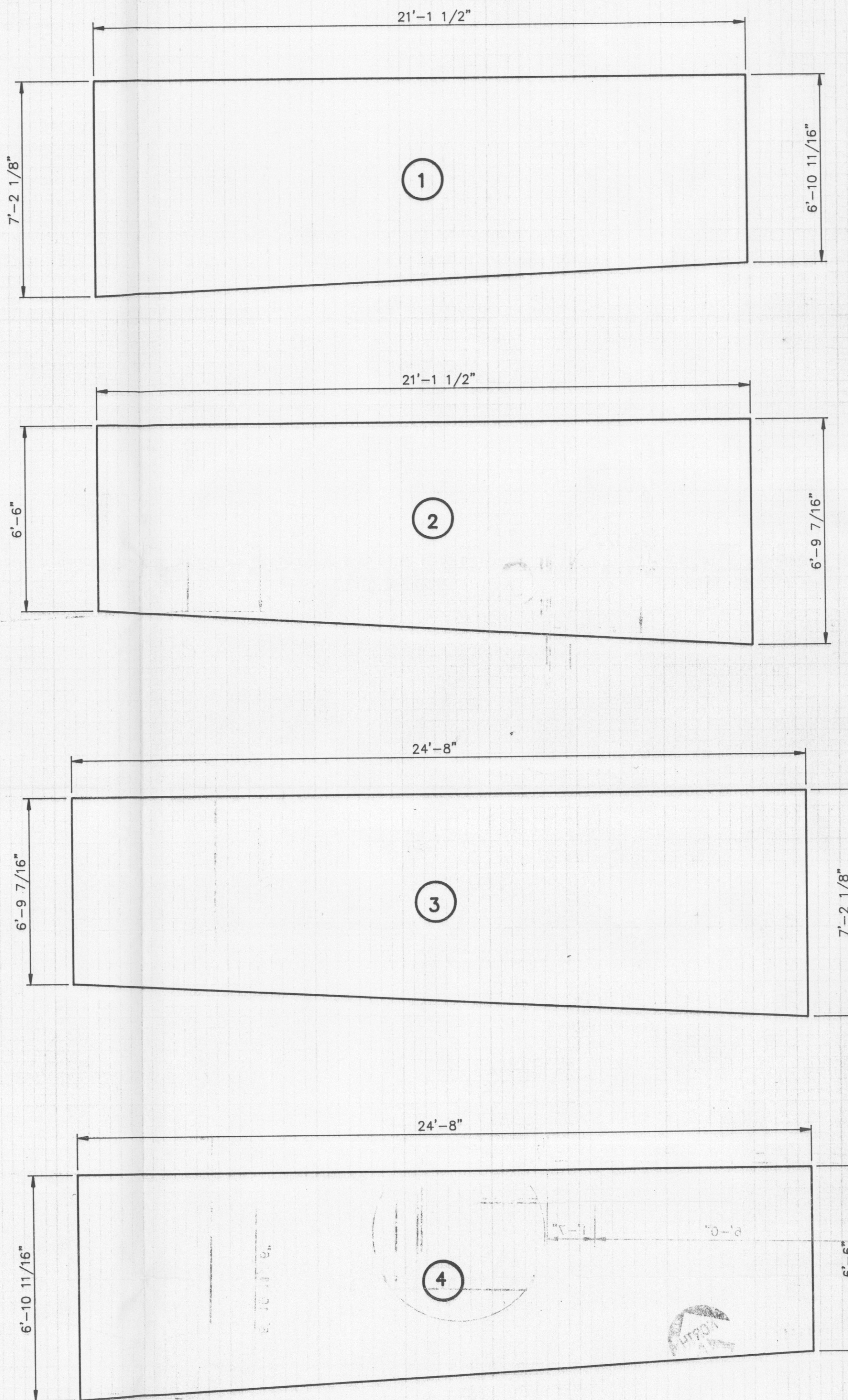
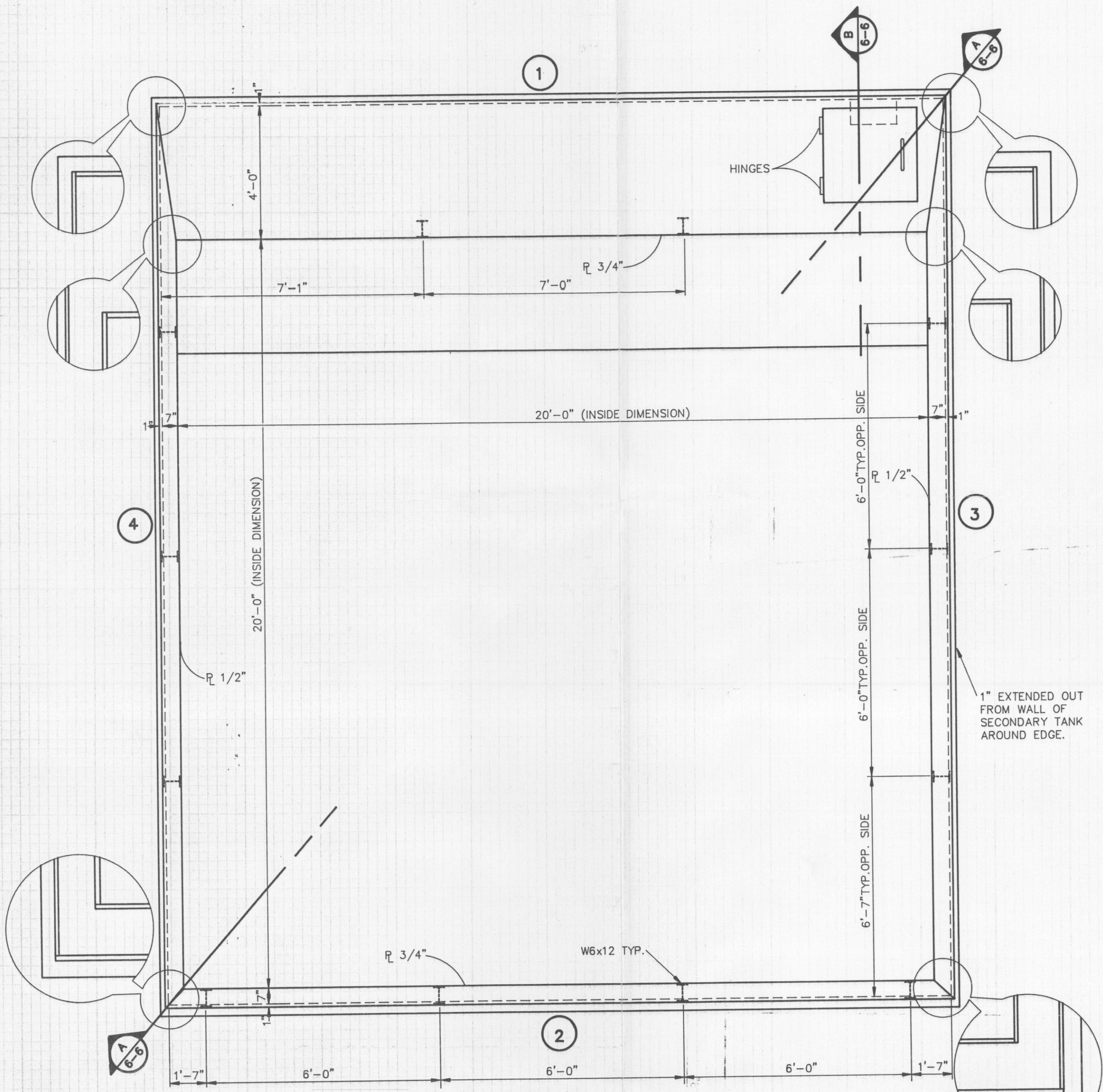
~~— Tanks 119-TN-002, 002 and 003 are each is a twelve feet in diameter and twenty feet high (maximum allowable capacity 16,90017,000 gallons per tank). Tank 119 TN 004 is twelve feet in diameter and twenty eight feet and eleven inches high (maximum allowable capacity of 19,600 gallons). AllThe tanks isare constructed of carbon steel.~~

~~IV.B.6.b. — CHGMThe Permittee shall only store run-off containment waters from secondary containment, non-hazardous wastewaters, multi-source leachate (F039), and TSCA\RCRA leachate (combination multi-source leachate from Cell B/6) in Storage Tanks 119 TN 001, 119-TN-002, 119 TN 003 and 119 TN 004. Treatment is not allowed in these tanks.~~

**IV.B.2B.1. Leachate Tank System Engineering Drawings**

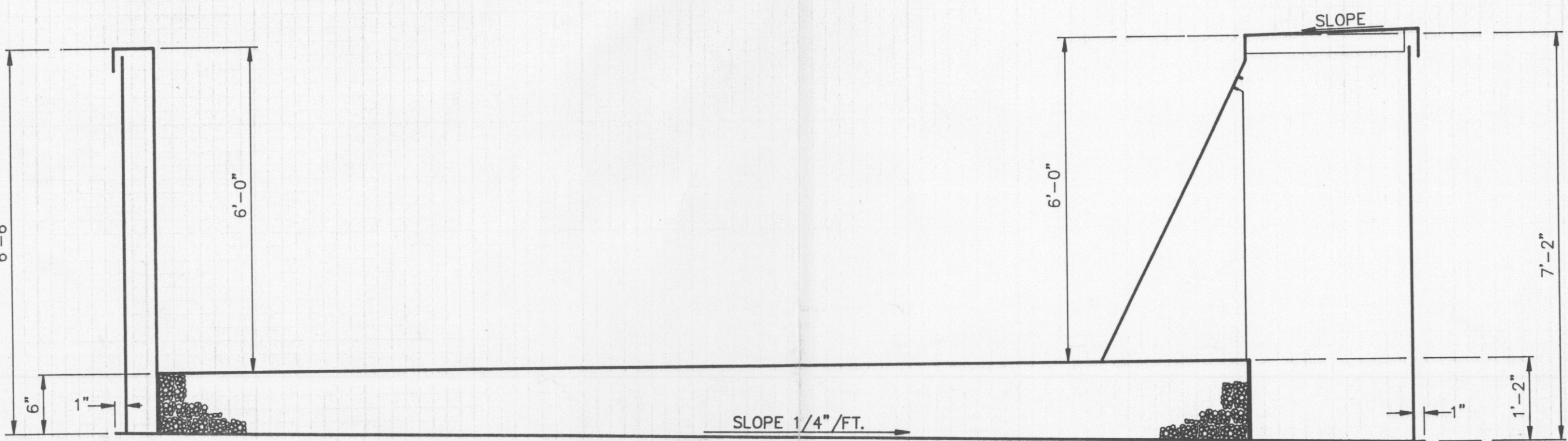
The following table identifies the drawing associated with the Leachate Tanks and the tank’s secondary containment, ~~and the Leachate Building.~~

Unit Description	Drawing Number
Leachate Treatment System Secondary Containment Area	D-32-55-204
Leachate Tanks (119-TN-002, 002, 003)	D-32-55-701
<del>Leachate Tank 119 TN 004</del>	<del>Drawing 1, Rev 3</del>



**B** SECTION  
6-6 SCALE: 1"=1'-0"

NOTE: 4" TALL SPLASH GUARDS NOT SHOWN AROUND TOP PERIMETER OF TANK.

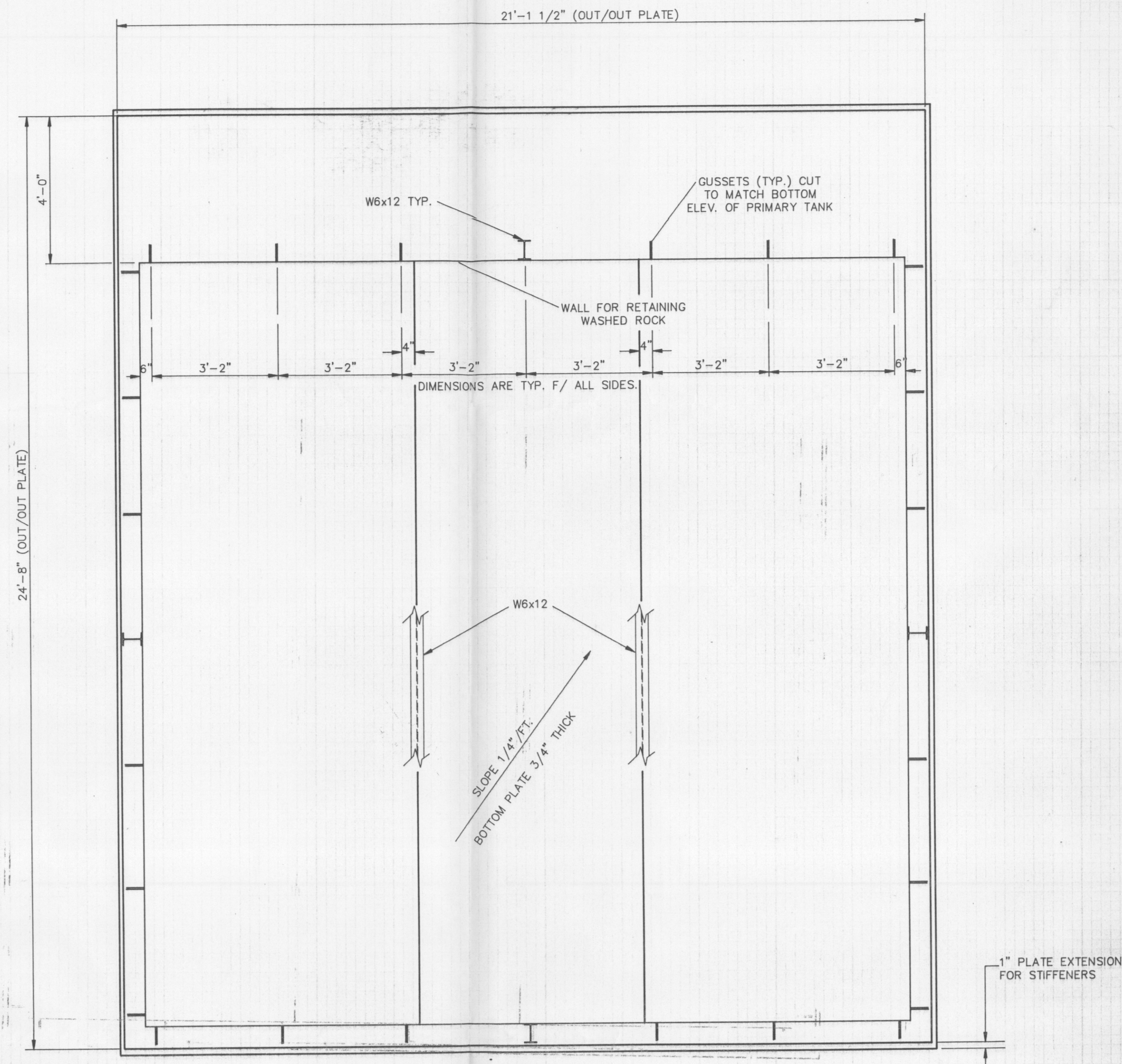


**A** SECTION  
6-6 SCALE: 1/2"=1'-0"

NO.	DWN	DATE	REVISION	APP'D	DATE

**U.S. POLLUTION CONTROL, INC.**  
**GRASSY MOUNTAIN FACILITY**  
**STABILIZATION TANK PLAN AND DETAILS**

PROJECT NO.	DATE	SCALE	SEAL
DESIGNED BY	DRAWN BY	CHECKED BY	DWG. NO.



**SECONDARY TANK PLAN**

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



NO.	DWN	DATE	REVISION	APP'D	DATE

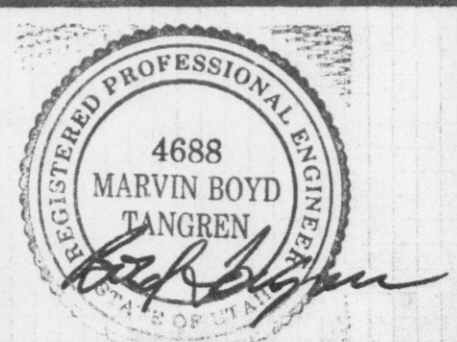


**GRASSY MOUNTAIN FACILITY**

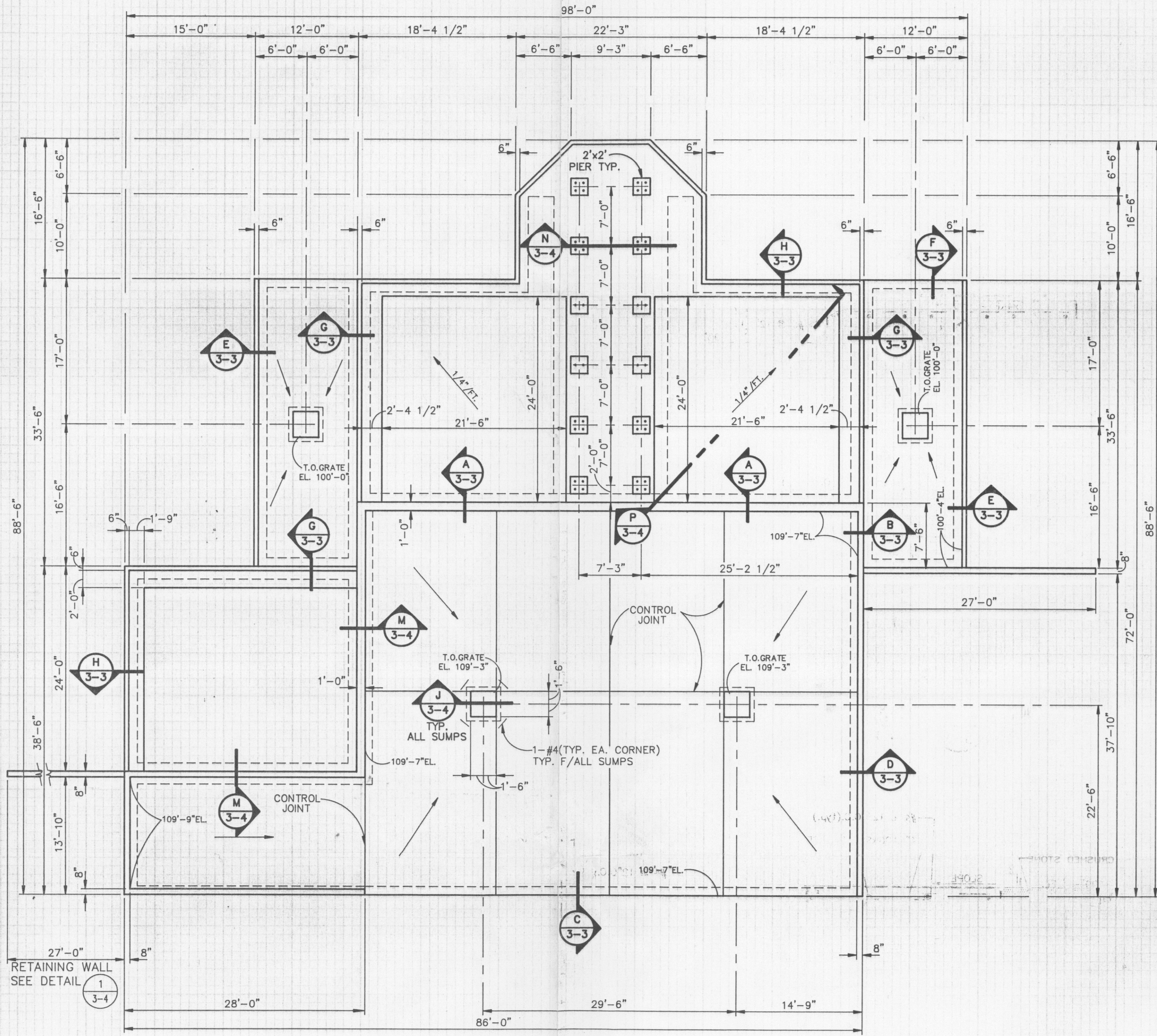
**SECONDARY TANK PLAN**

**NOTICE**

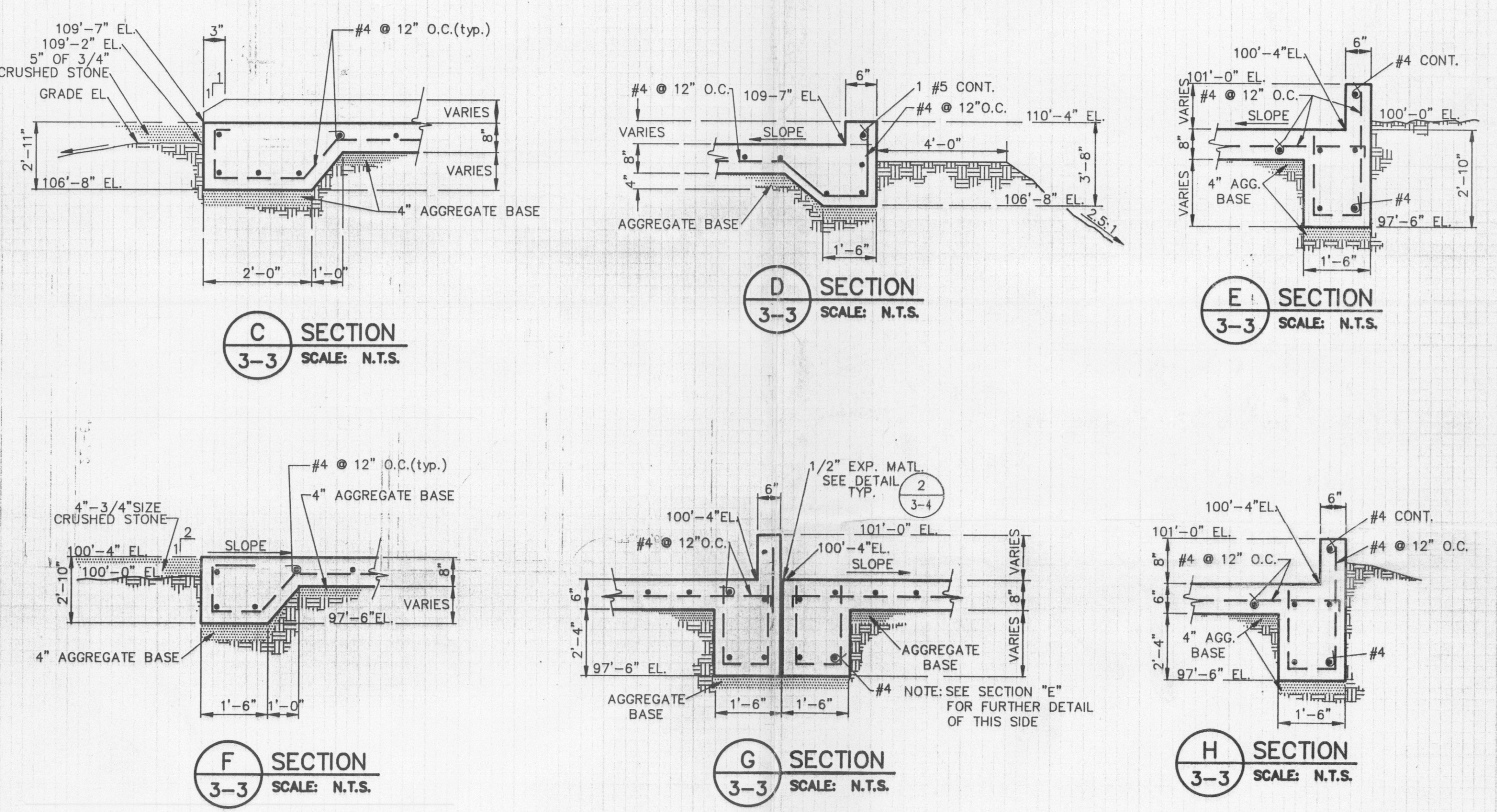
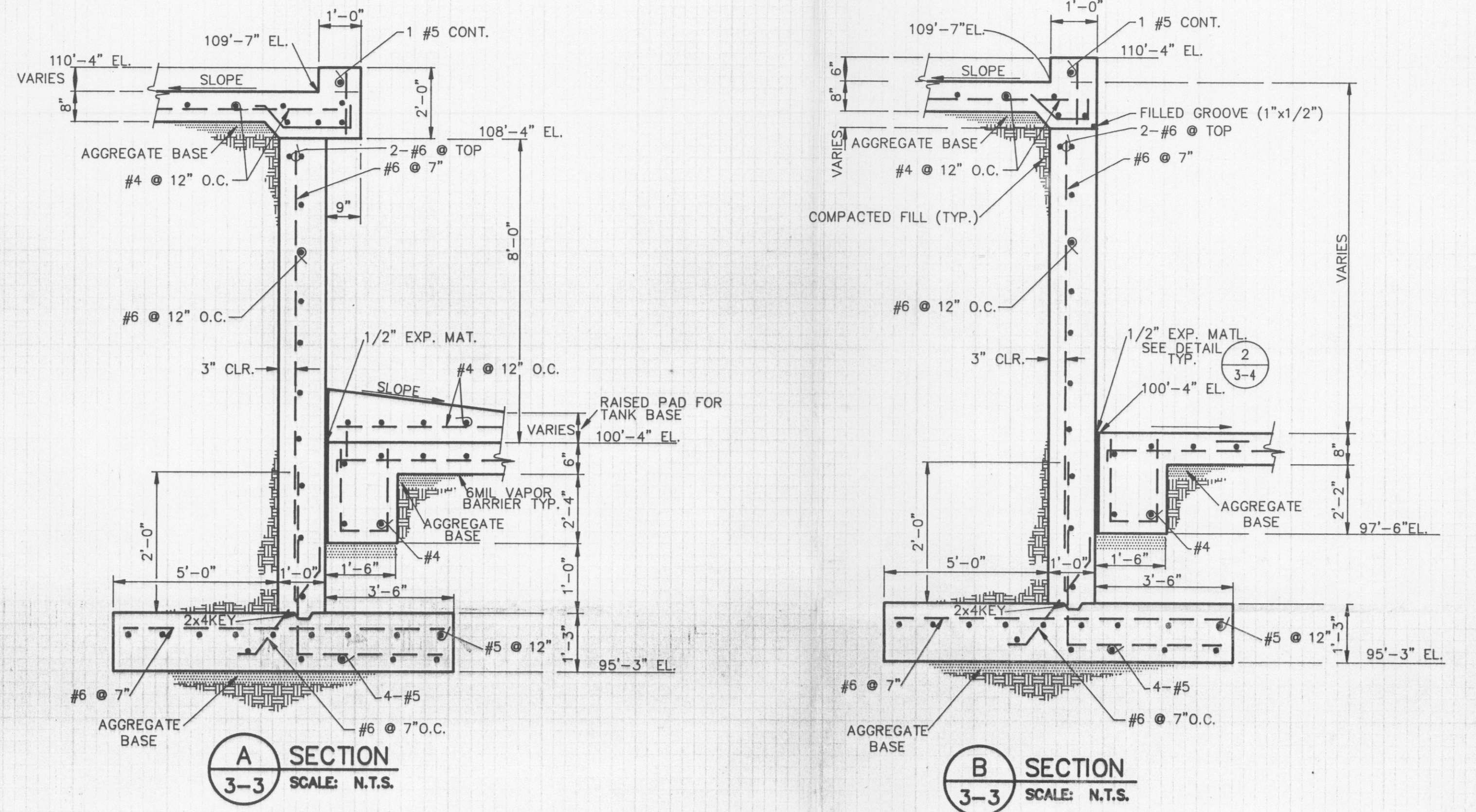
THIS DRAWING IS THE PROPERTY OF AND EMBOSS PROPRIETARY INFORMATION BELONGING TO U.S.P.C.I., INC. AND MUST BE RETURNED IMMEDIATELY UPON REQUEST. IT MUST NOT BE COPIED IN WHOLE OR PART, NOR THE INFORMATION SHOWN THEREON DISCLOSED TO THIRD PARTIES EXCEPT WITH THE EXPRESS WRITTEN PERMISSION OF U.S.P.C.I., INC.



PROJECT NO. 3289016	DATE 5/88	SCALE SHOWN	SEAL
DESIGNED BY R.H.	DRAWN BY SD	CHECKED BY	DWG. D-32-20-704
SHEET 6 OF 6			REV.



**FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"



D:\PROJECTS\GRASSMOUNT\889201

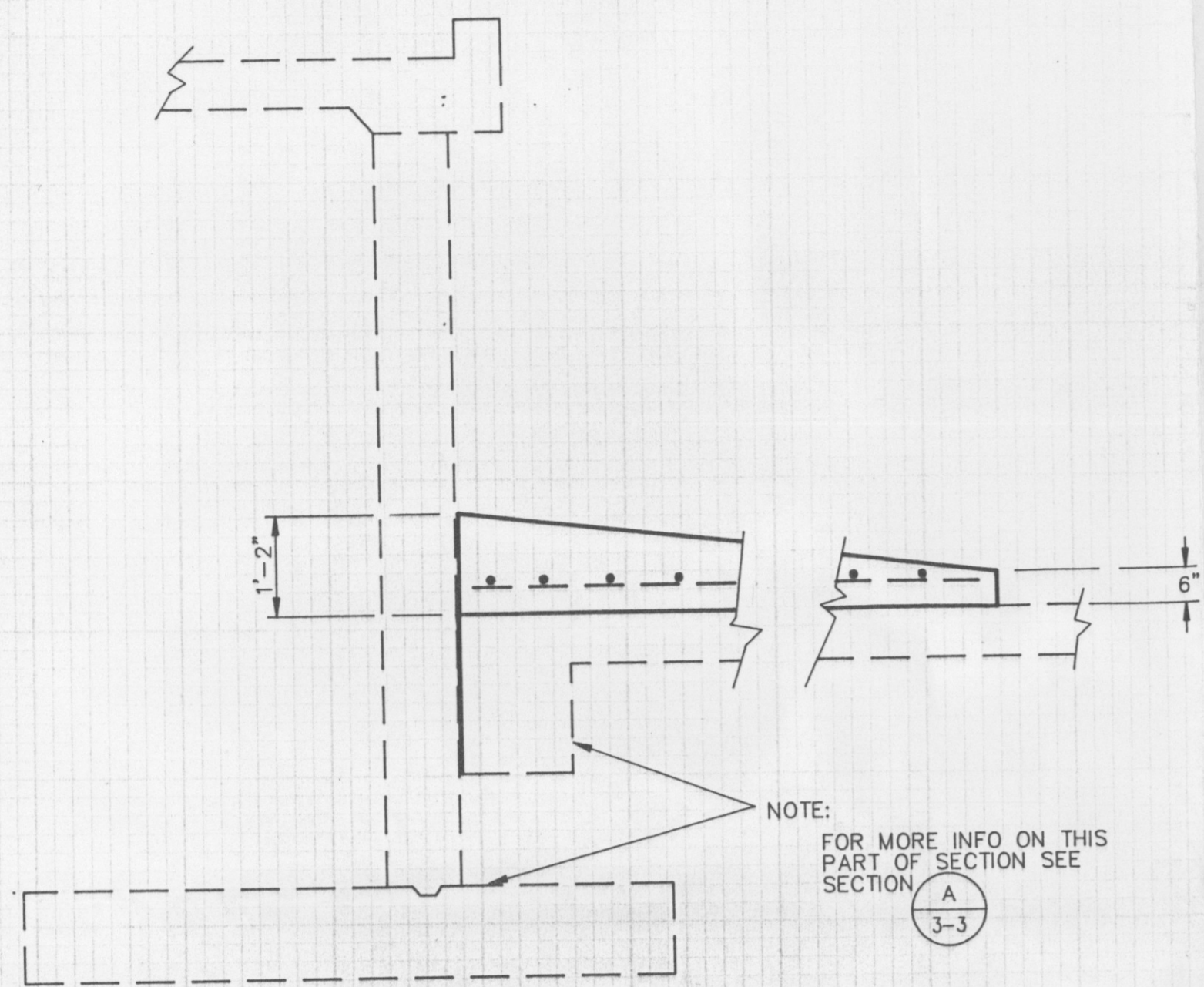
NO.	DWN	DATE	REVISION	APPD	DATE



**U.S. POLLUTION CONTROL, INC.**  
**GRASSY MOUNTAIN FACILITY**  
**STABILIZATION SYSTEM**  
**FOUNDATION PLAN**  
**AND SECTIONS**

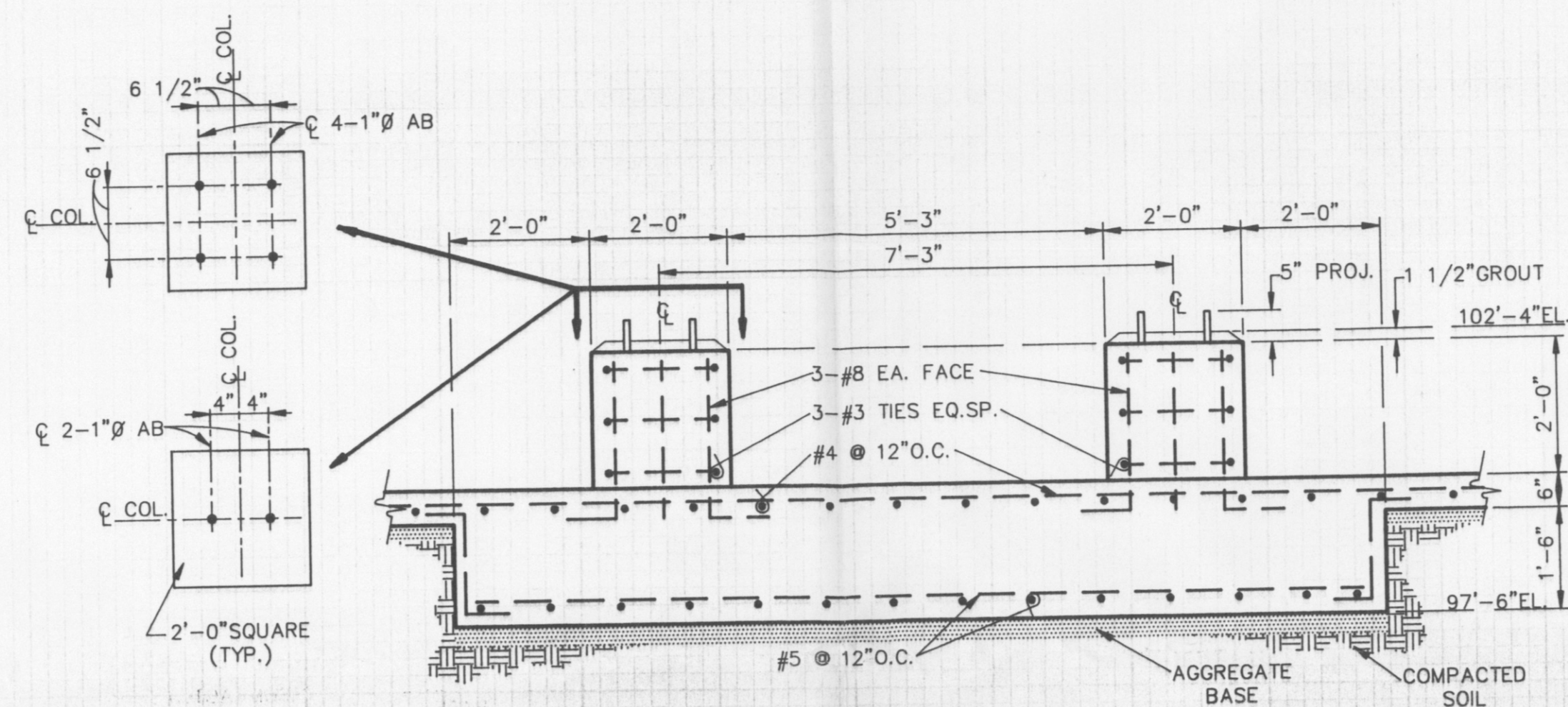
**NOTICE**  
THIS DRAWING IS THE PROPERTY OF AND EMBODIES PROPRIETARY INFORMATION BELONGING TO U.S.P.C.I., INC. AND MUST BE RETURNED IMMEDIATELY UPON REQUEST. IT MUST NOT BE COPIED IN WHOLE OR IN PART, NOR THE INFORMATION SHOWN THEREON DISCLOSED TO THIRD PARTIES EXCEPT WITH THE EXPRESS WRITTEN PERMISSION OF U.S.P.C.I., INC.

PROJECT NO. **889201** DATE **8/89** SCALE **SHOWN**  
DESIGNED BY **RH** DRAWN BY **SD** CHECKED BY   
SEAL **DWG. D-32-20-201** REV.   
SHEET  OF

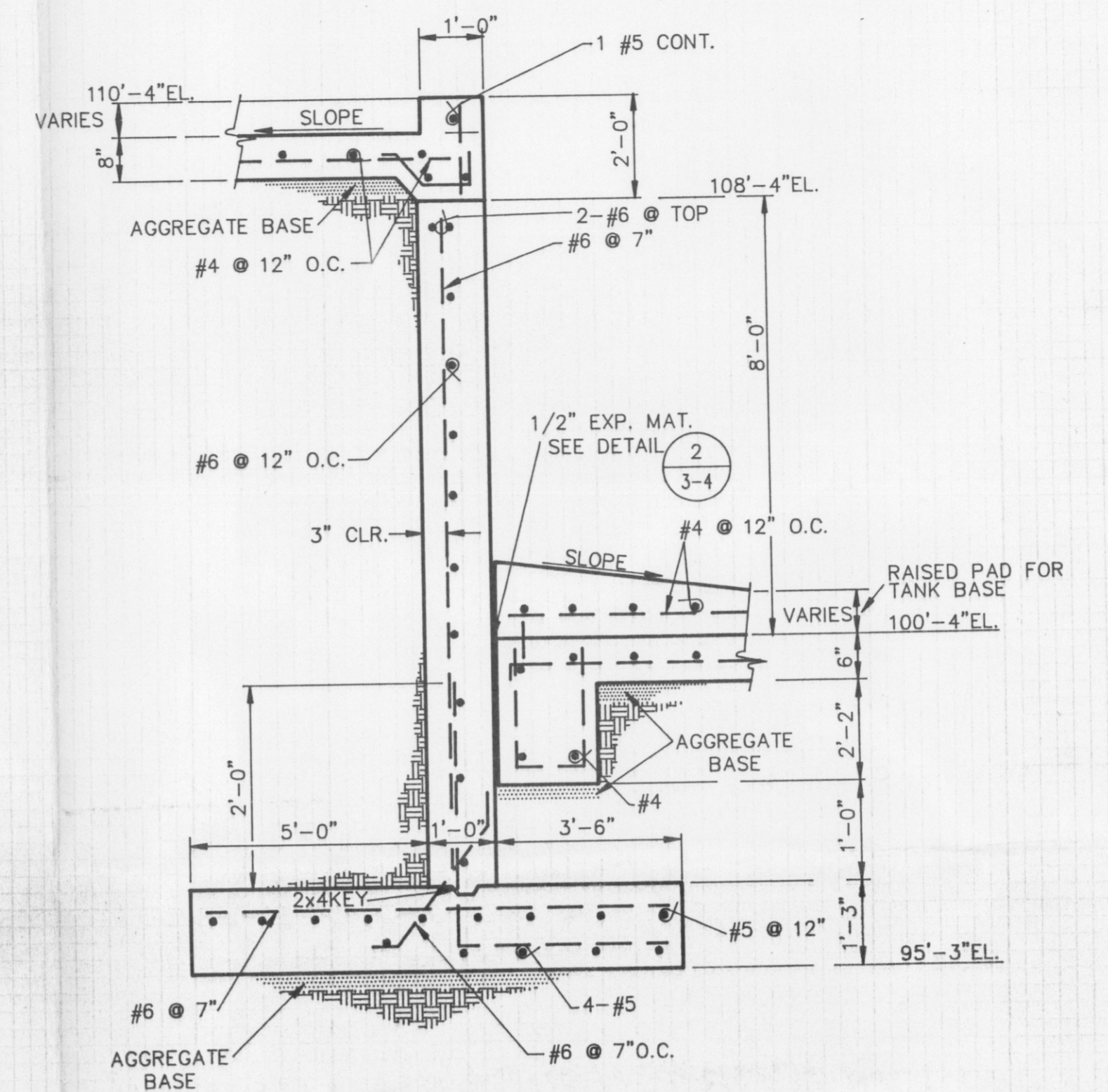


**P SECTION**  
3-4 SCALE: N.T.S.

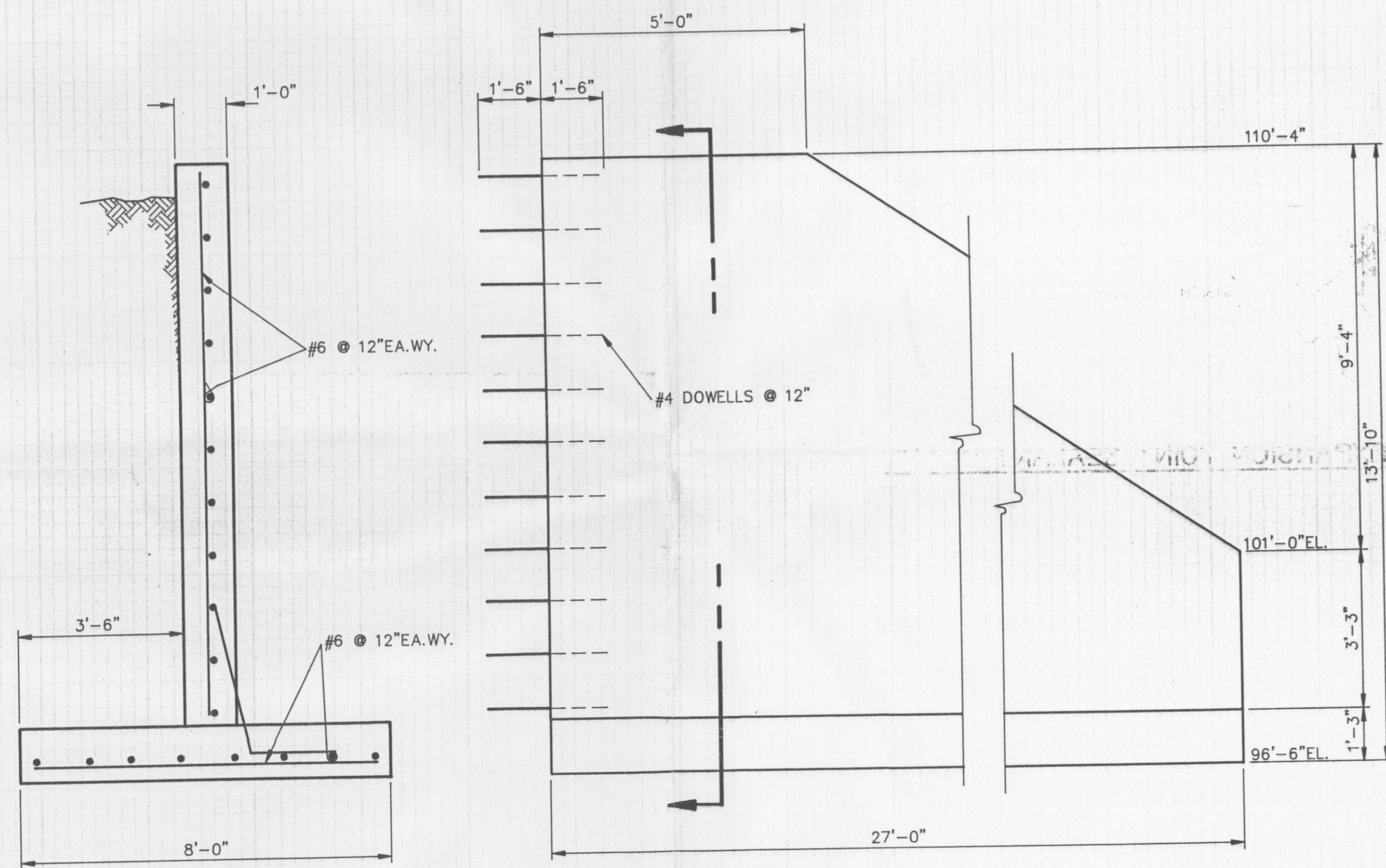
NOTE:  
FOR MORE INFO ON THIS  
PART OF SECTION SEE  
SECTION  
A  
3-3



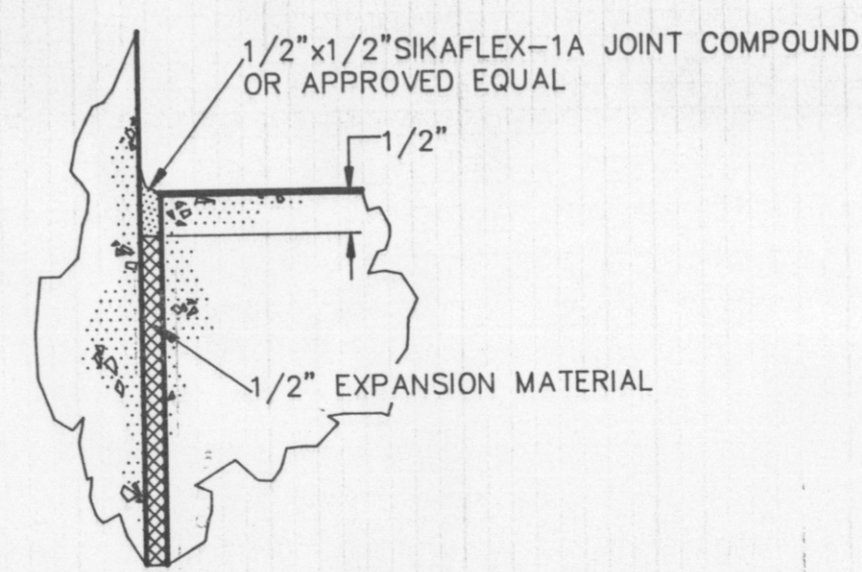
**N SECTION**  
3-4 SCALE: N.T.S.



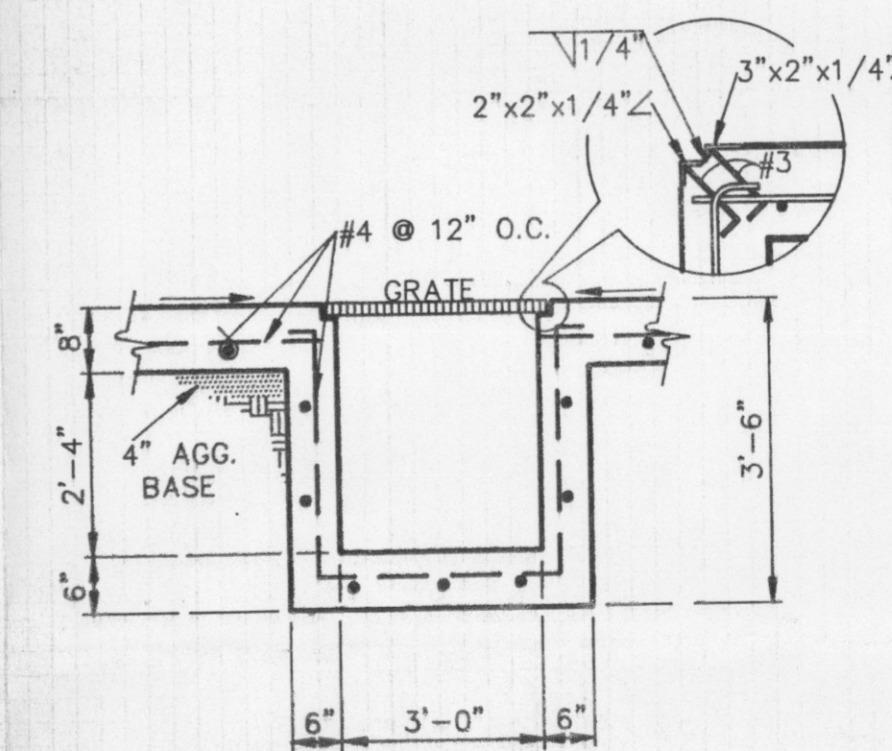
**M SECTION**  
3-4 SCALE: N.T.S.



**1 RETAINING WALL DETAIL**  
3-4 SCALE: N.T.S.



**2 TYP. EXPANSION JOINT SEALANT DETAIL**  
3-4 SCALE:



**J SECTION**  
3-4 SCALE: N.T.S.

NO.	DWN	DATE	REVISION	APPD	DATE

**U.S. POLLUTION CONTROL, INC.**

**GRASSY MOUNTAIN FACILITY STABILIZATION SYSTEM**

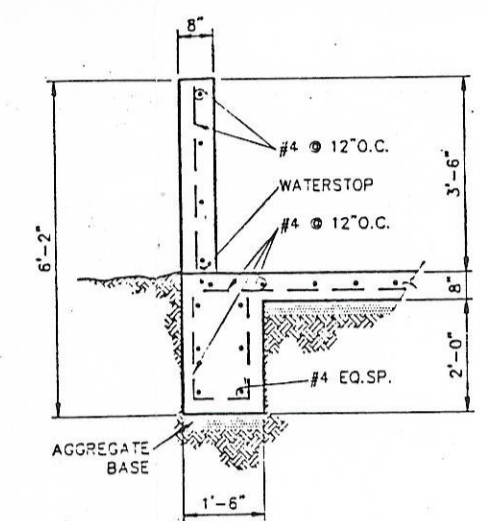
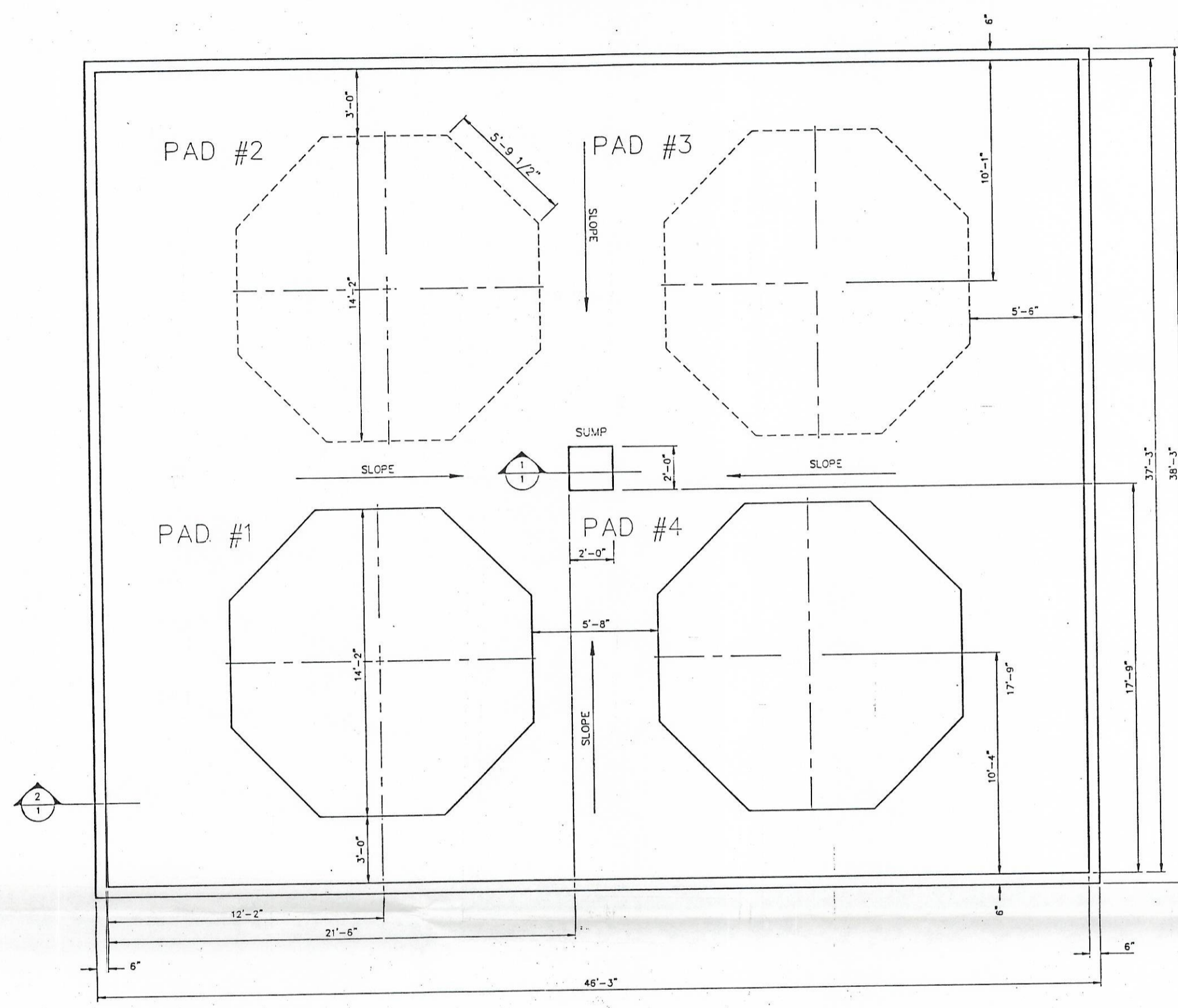
**FOUNDATION SECTIONS AND DETAILS**

**NOTICE**

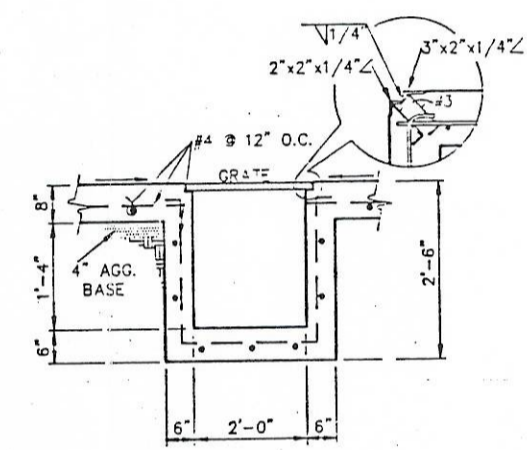
THIS DRAWING IS THE PROPERTY OF AND EMBODES PROPRIETARY INFORMATION BELONGING TO U.S.P.C.I., INC. AND MUST BE RETURNED IMMEDIATELY UPON REQUEST. IT MUST NOT BE COPIED IN WHOLE OR PART, NOR THE INFORMATION SHOWN THEREON DISCLOSED TO THIRD PARTIES EXCEPT WITH THE EXPRESS WRITTEN PERMISSION OF U.S.P.C.I., INC.

PROJECT NO.	DATE	SCALE	SEAL
DESIGNED BY	DRAWN BY	CHECKED BY	DWG. D-32-20-202
			SHEET OF



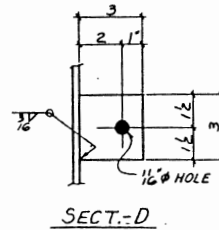
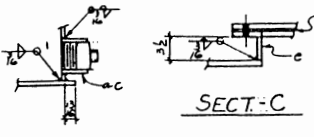
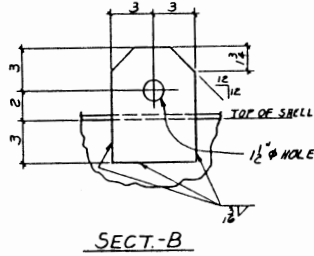
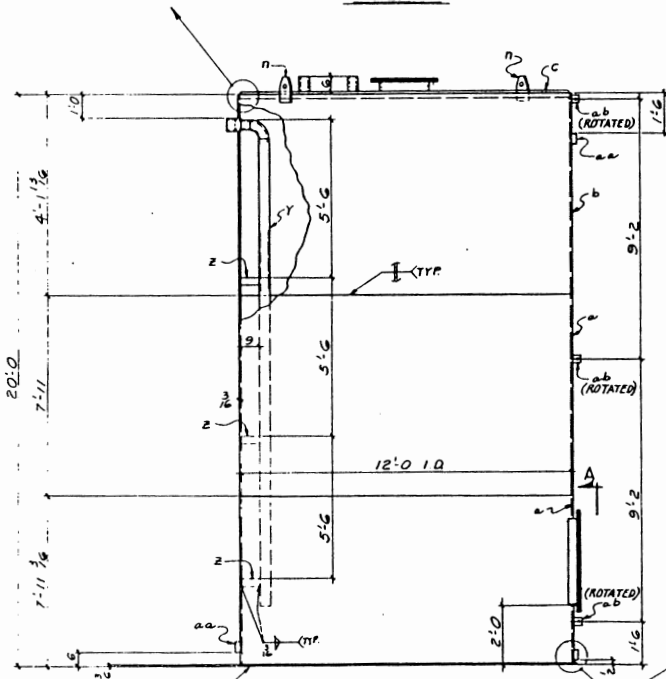
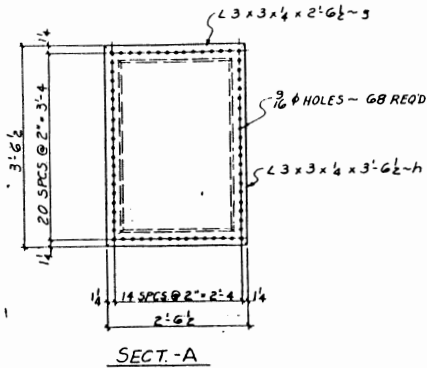
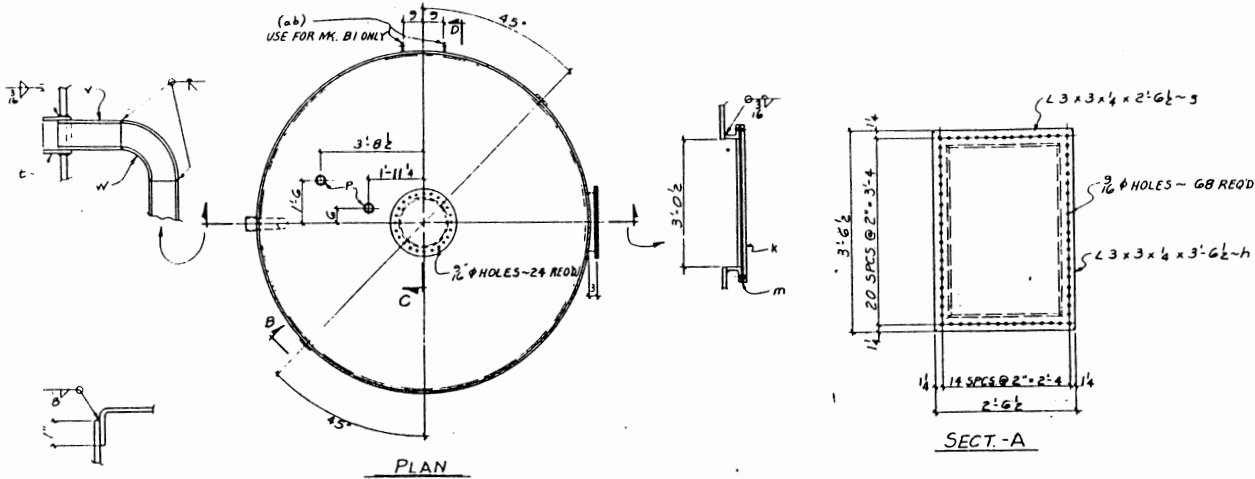


2 TYPICAL WALL SECTION  
1 SCALE: N.T.S.



1 TYPICAL SUMP SECTION  
1 SCALE: N.T.S.

1	4/22/90	RR	X	CHANGE TO D-SIZE	X	X
REV.	DATE	BY		DESCRIPTION	APP'D	DATE
 <b>USPCI</b> A Subsidiary of Union Pacific Corporation						
<b>GRASSY MOUNTAIN FACILITY</b> <b>LEACHATE TREATMENT SYSTEM</b> <b>SECONDARY CONTAINMENT AREA</b>						
NOTICE						
THIS DRAWING IS THE PROPERTY OF AND EMBODIES PROPRIETARY INFORMATION BELONGING TO USPCI AND MUST BE RETURNED IMMEDIATELY UPON REQUEST. IT MUST NOT BE COPIED IN WHOLE OR PART, NOR THE INFORMATION SHOWN THEREON DISCLOSED TO THIRD PARTIES EXCEPT WITH THE EXPRESS WRITTEN PERMISSION OF USPCI.						
PROJECT NO.	DATE	SCALE	DRAWING NO.	REV.		
X	4/22/90	SHOWN	D-32-55-204	1		
DESIGNED BY	DRAWN BY	CHECKED BY	DRAWING NO.	REV.		
DP	RR	DP	X	X		
				SHEET	1 OF 1	



3 - TANKS - MK. A1 (AS SHOWN)  
 2 - TANKS - MK. B1 (AS SHOWN & NOTED)

BILL OF MATERIALS									
NO	DESCRIPTION	LENGTH	PC	REMARKS	UNIT	WEIGHT			
PKT		FT	IN						
1									
2									
3	TANKS			A1					
4	TANKS			B1					
10	R 3/4 x 95	37	9	d	ROLL	2282			
5	R 3/4 x 45 3/8	37	9	d	ROLL	3997			
5	144 O.D. FLAT PIG			G		6179			
4	HEADS 1/4 E								
5	R 3/4 x 146	18	2	d		5625			
10	24" O MANNHOLE			G	W/COVER	375			
5	GSKT 23 1/2" I.D.			F	W/RUBBER	20			
11	28" O.D.								
10	L 3 x 3 x 4	2	62	J		145			
10	L 3 x 3 x 4	3	42	J		174			
5	R 3/4 x 30 1/2	3	65	K		440			
5	GSKT 30 1/2"	3	65	m	W/RUBBER	20			
10	BAR 6 x 3 1/2	0	8	n		51			
10	PIPE 4" O SCH 40	0	6	P	TAIL ONE END NPT	54			
5	4" O 300# MTC PIG	0	6	Q		16			
5	PIPE 4" O SCH 40	0	6	V		87			
5	4" O L.R. ELBOW	0	1	W	SCH 40	43			
5	PIPE 4" O	0	6	Y	SCH 40	800			
10	4" O 300# M.I.	0	9	Z	H.C.PIG	43			
10	BAR 3 x 3 1/2	0	3	aa	FOR MK. B1 ONLY	18			
5	4" O 300# M.I.	0	3	ab	H.C.PIG W/PIG	19			
10	BOLTS 2" O MB	0	12	ac	W/NE W/3/8"	40			

BY FILE BY:	BY CHK'D BY:	BY TOTAL WT:
MAX. WT. OF SHIPPING UNIT:	NO. BOLTS:	WT. BOLTS:
	TOTAL WEIGHT (LBS):	43,230

NOTES:  
 1 - ALL MATL A36 U.N.  
 2 - SEE DWG. # 2 FOR LADDER & CAGE DETAILS

Treated Leachate  
 119-TN-002  
 S. K. HART ENERGY FACILITY

CUSTOMER: U.S.P.C.I.	MARK STEEL CORPORATION
P.O. No.: 0-4597	GRABBY MOUNTAIN FACILITY
CERTIFIED PRINT	WASTE LIQUID STORAGE TANKS 1, 2, & 3
HOLER: A3 S/BOWN PAINT: PRIMED / PAINT DARK BLUE	DRAWN BY: J.E. 12-28-71 CHECKED BY: G.C. 1/12/72 SCALE: DRAWING NO.: DIP:
	D-32-55-701 24636

REFERENCE DRAWINGS	REVISIONS										CERTIFIED PRINT
U.S.P.C.I. 8"x11" DWG 3N1	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	HOLER: A3 S/BOWN PAINT: PRIMED / PAINT DARK BLUE