

CONSTRUCTION DRAWINGS
for
GYPSUM STACK SYSTEM CLOSURE
PHASE II CONSTRUCTION
OLD GYPSUM STACK COMPARTMENTS
PINEY POINT PHOSPHATES STACK SYSTEM
Manatee County, Florida
for

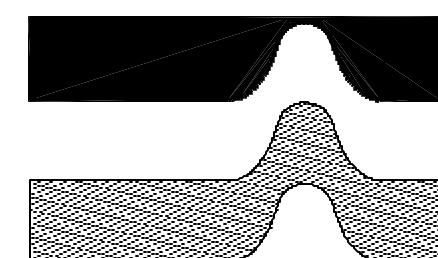


Florida

Department of Environmental Protection

and, Louis J. Timchak, Jr. - Receiver

FEBRUARY 2004

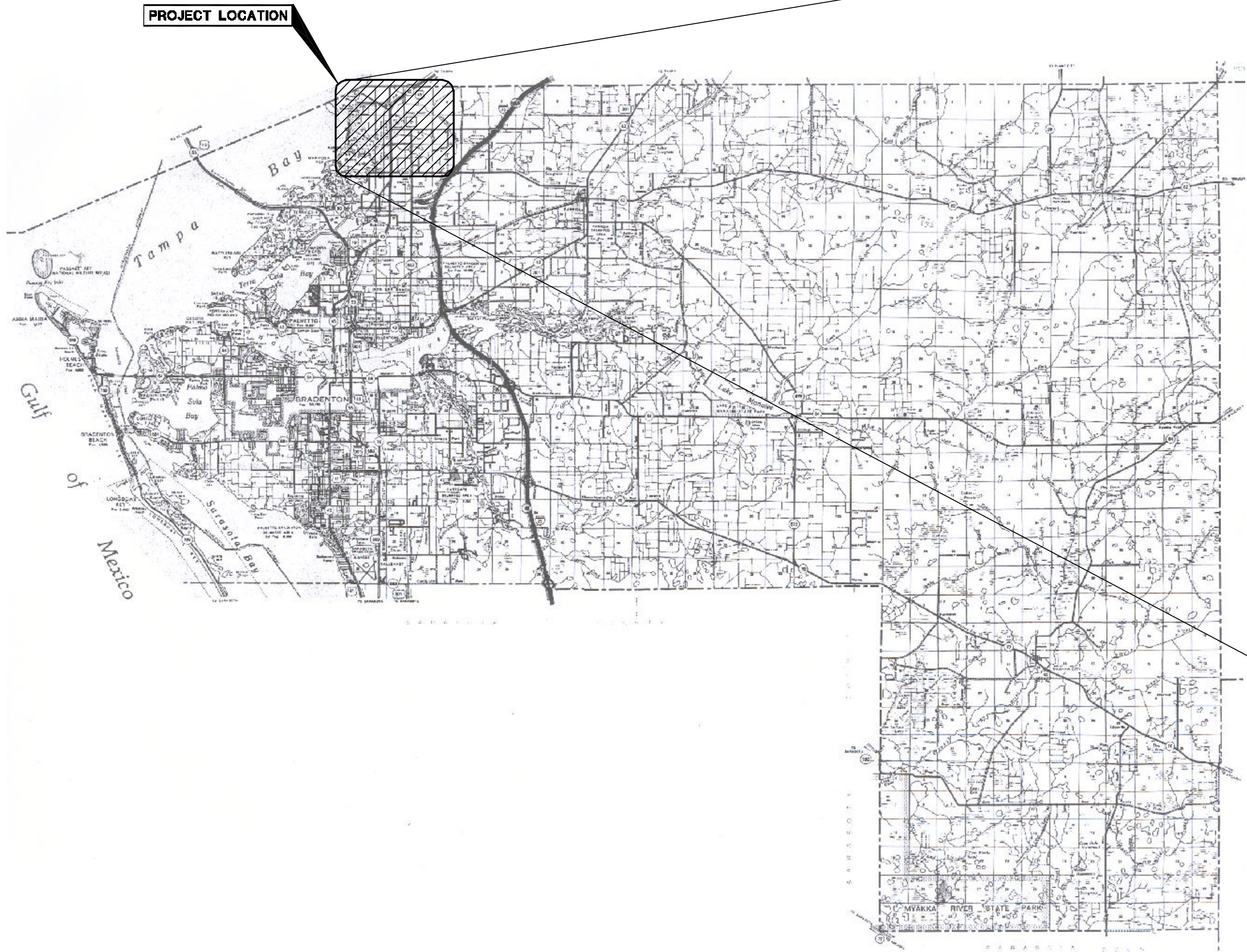


Prepared By
Ardaman & Associates, Inc.

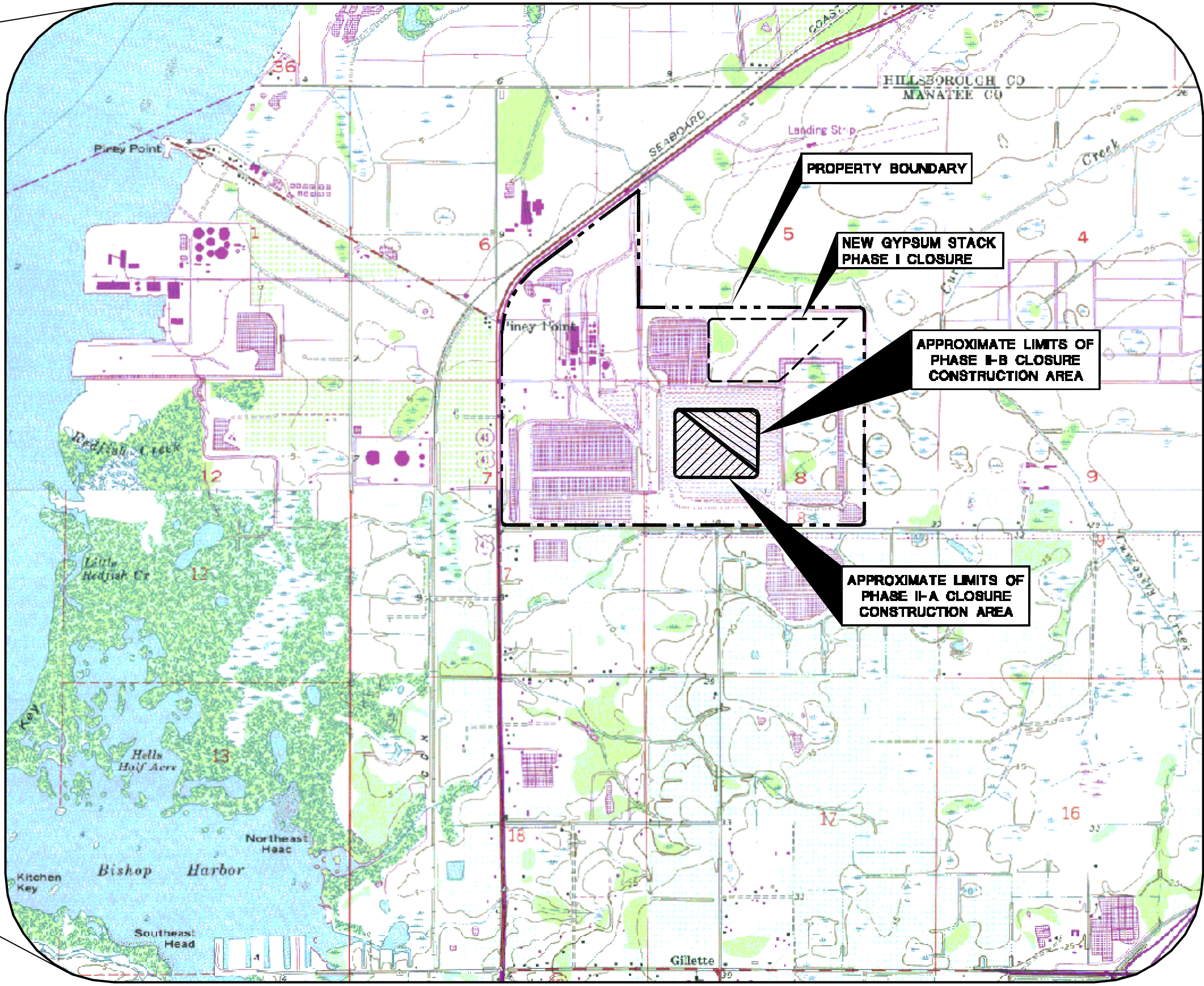
8008 S. Orange Ave. Orlando, FL 32809
TEL 407/855-3880 FAX 407/859-8121 C.A.N. 5950



FLORIDA STATE MAP
NOT TO SCALE



MANATEE COUNTY MAP
SCALE: 1" = 20,000'



TOWNSHIP 33 SOUTH
RANGE 18 EAST
OBTAINED FROM U.S.G.S. QUADRANGLE MAPS:
COCKROACH BAY, FLORIDA (PHOTOREVISED 1981)
PALMETTO, FLORIDA (PHOTOREVISED 1987)
SITE VICINITY MAP
SCALE: 1" = 2000'

INDEX OF DRAWINGS

NO.	TITLE	NO.	TITLE
G-1	COVER SHEET	D-1	OUTLET PROFILES
G-2	INDEX OF DRAWINGS AND PROJECT LOCATION MAPS	D-2	INLET STRUCTURE DETAILS
G-3	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS	D-3	MISCELLANEOUS DETAILS
G-4	AERIAL PHOTOGRAPH OF SITE	D-4	MISCELLANEOUS DETAILS
G-5	TOPOGRAPHIC MAP OF SITE	L-1	SOUTH COMPARTMENT LINER PLAN
G-6	TOPOGRAPHIC MAP OF CONSTRUCTION AREA	L-2	NORTH COMPARTMENT LINER PLAN
G-7	COMPARTMENT BOTTOM CONTOURS FROM 2001 POND SOUNDINGS	L-3	SOUTHEAST CORNER LINER DETAILS
C-1	SOUTH COMPARTMENT DEWATERING PLAN	L-4	NORTHWEST CORNER LINER DETAILS
C-2	SOUTH COMPARTMENT ALIGNMENT AND GRADING PLAN	L-5	LINER DETAILS
C-3	SOUTH COMPARTMENT CROSS SECTIONS		
C-4	PARTITION DIKE CROSS SECTIONS		
C-5	NORTH COMPARTMENT DEWATERING PLAN		
C-6	NORTH COMPARTMENT ALIGNMENT AND GRADING PLAN		
C-7	NORTH COMPARTMENT CROSS SECTIONS		

DRAWING NO. G-7
REMOVED FROM SET

A	
A	ANCHOR
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADAPT	ADAPTER
AR'D	AROUND
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS

B	
BOTT	BOTTOM
BF.V.	BUTTERFLY VALVE
B.F.	BLIND FLANGE
B.V.	BALL VALVE

C	
CL	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION OR CONTINUOUS
COR	CORNER
CORR	CORRUGATED
CR	COUNTY ROAD

D	
DIA	DIAMETER
DISCH	DISCHARGE
DWG	DRAWING
△	CURVE ANGLE

E	
E	EAST
EA	EACH
ECC	ECCENTRIC
EL	ELEVATION (feet, NGVD)
ELL	ELBOW
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTENSION

F	
FAB	FABRICATED
FG	FINISH GRADE
FIN	FINISH
FLG	FLANGE
FLG'D	FLANGED
FT	FOOT

G	
GALV	GALVANIZED
GR	GRADE

H	
H	HIGH
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HIGH POINT
HWY	HIGHWAY

ID	INSIDE DIAMETER
INV	INVERT
1	1
2	2
3	3
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100	100

L	LENGTH OF ARC
LBS	POUNDS
LF	LINEAR FOOT
LG	LENGTH OR LONG
LLV	LONG LEG VERTICAL
LR	LONG RADIUS
LT	LEFT

M	
MAT'L	MATERIAL
MAX	MAXIMUM
MB	MECHANICAL BOLT
MEG	MEET EXISTING GRADE
MIN	MINIMUM

N	
N	NORTH
NGS-N	NEW GYPSUM STACK - NORTH COMPARTMENT
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NO.	NUMBER
NTS	NOT TO SCALE

OC	ON CENTERS
O/E	OR EQUAL
OZ	OUNCE

P	
PC	POINT OF CURVATURE
PE	PLAIN END
PERF	PERFORATED
PI	POINT OF INTERSECTION
PL	PLATE
PP	POWER POLE
PPL	POLYPROPYLENE
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECTION
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
P.V.	PLUG VALVE
PVC	POLYVINYL CHLORIDE

R	
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RR	RAILROAD
RT	RIGHT

S	
S	SLOPE OR SOUTH
SCH	SCHEDULE
SCR'D	SCREWED
SDR	STANDARD DIMENSION RATIO
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STA	STATION
STL	CARBON STEEL
STL RL	RUBBER-LINED CARBON STEEL
S.W.	STORMWATER

T	
T	TANGENT
TEMP	TEMPORARY
TEXT	TEXTURED
THK	THICK
THR'D	THREADED
TOC	TOP OF CONCRETE
TOL	TOP OF LINER
TOS	TOE OF SLOPE
TYP	TYPICAL

U _____
 UON UNLESS OTHERWISE NOTED
 UNREINF'D UNREINFORCED

V

VAR	VARIABLE
VER	VERIFY
VERT	VERTICAL

W	
W	WEST OR WIDE
W/	WITH
W.S.	WATER STOP
W/S	WATER SURFACE

Y
YD² SQUARE YARD

DETAIL IDENTIFICATION NUMBER

1

DETAIL TITLE

D-1

SCALE

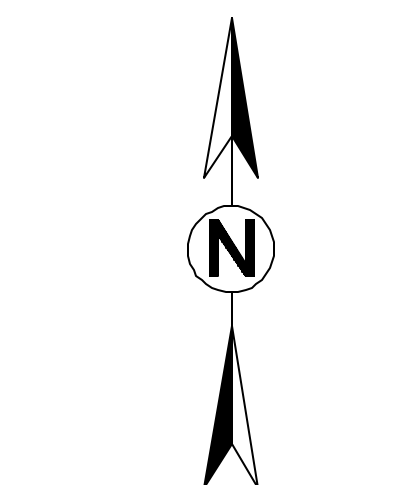
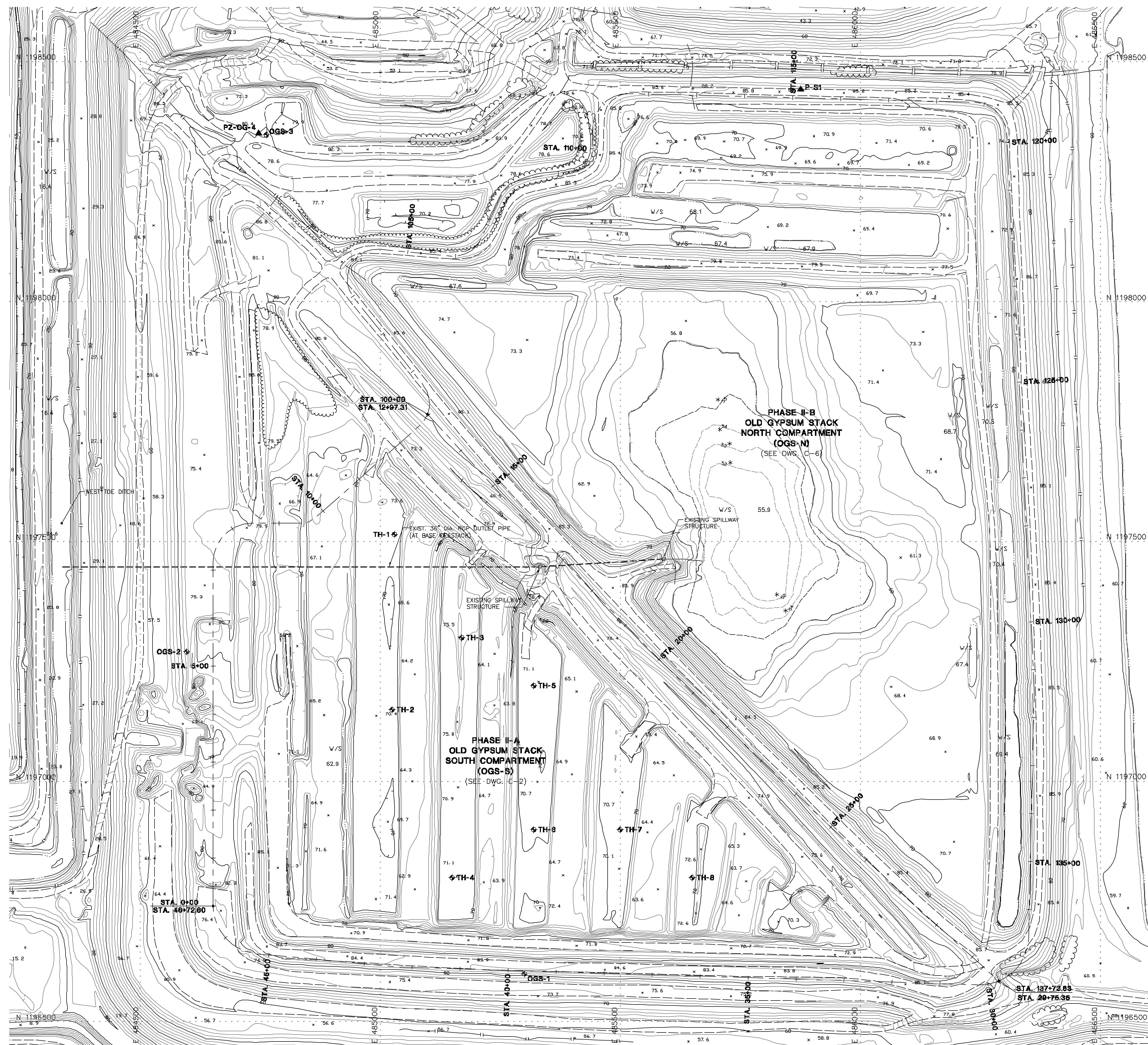
DRAWING WHERE DETAIL WAS TAKEN

	STREAM, CHANNEL OR DITCH
	EXISTING GROUND SURFACE
	INTERMEDIATE CONTOURS (feet, NGVD)
	INDEX CONTOURS (feet, NGVD)
	PROPOSED CONTOURS (feet, NGVD)
	NORTHING OR EASTING GRID LINE
	EXISTING PIPELINE
	EXISTING ABOVE GROUND PIPE
	EXISTING BURIED PIPE
	PROPOSED ABOVE GROUND OR BURIED PIPE
	POWER POLE
	WATER FLOW DIRECTION
	PROPOSED SIDE SLOPE (3 HORIZ : 1 VERT)
	EXISTING SIDE SLOPE (OR SLOPE TO BE CONSTRUCTED AT A FUTURE STAGE)

	COMPACTED GYPSUM		HDPE LINER
	CONCRETE		GEONET / GEOTEXTILE COMPOSITE
			FILTER FABRIC (GEOTEXTILE)
OTHER SYMBOLS AS NOTED ON THE DRAWINGS			EXISTING OR PROPOSED GROUND SURFACE
			EXISTING PIEZOMETER
			EXISTING BORING

1. Prior to bid submittal, the Contractor shall carefully examine and inspect the site to familiarize himself with the current conditions and to allow him to independently estimate cut and fill quantities.
2. Existing elevations shown on all Drawings are based on information from a topographic survey (2-foot contour interval) of the site performed by I.F. Rooks & Associates, Inc. in February 2004, and a depth sounding surveys of ponded areas performed by I.F. Rooks & Associates, Inc. in August 2001.
3. Final dike and pond bottom elevations are subject to adjustment prior to and during construction at the discretion of the Engineer, based on reevaluation of actual shrinkage factors and actual settlement as determined by the Engineer.

[illegible]



0 100
SCALE: 1" = 10'

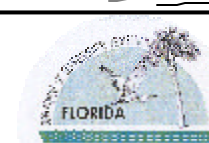
NOTES

- (1) TOPOGRAPHIC CONTOURS FROM FEBRUARY 23, 2004 SURVEY BY I.F. ROOKS & ASSOCIATES, INC.
- (2) COORDINATE GRID SYSTEM IS FLORIDA STATE PLANE COORDINATE SYSTEM.
- (3) SEE DRAWINGS C-2 AND C-6 FOR SOUTH AND NORTH COMPARTMENT CENTERLINE DATA.
- * (4) POND BOTTOM CONTOURS BASED ON WATER DEPTH SOUNDINGS PERFORMED BY I.F. ROOKS & ASSOCIATES, INC. AUGUST 2001.

SYMBOL	DESCRIPTION
	TEST BORING
	EXISTING PIEZOMETER

[illegible]

 **Ardaman & Associates, Inc.**
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TEL 407/855-3880 FAX 407/859-8121 C.A.N. 5950



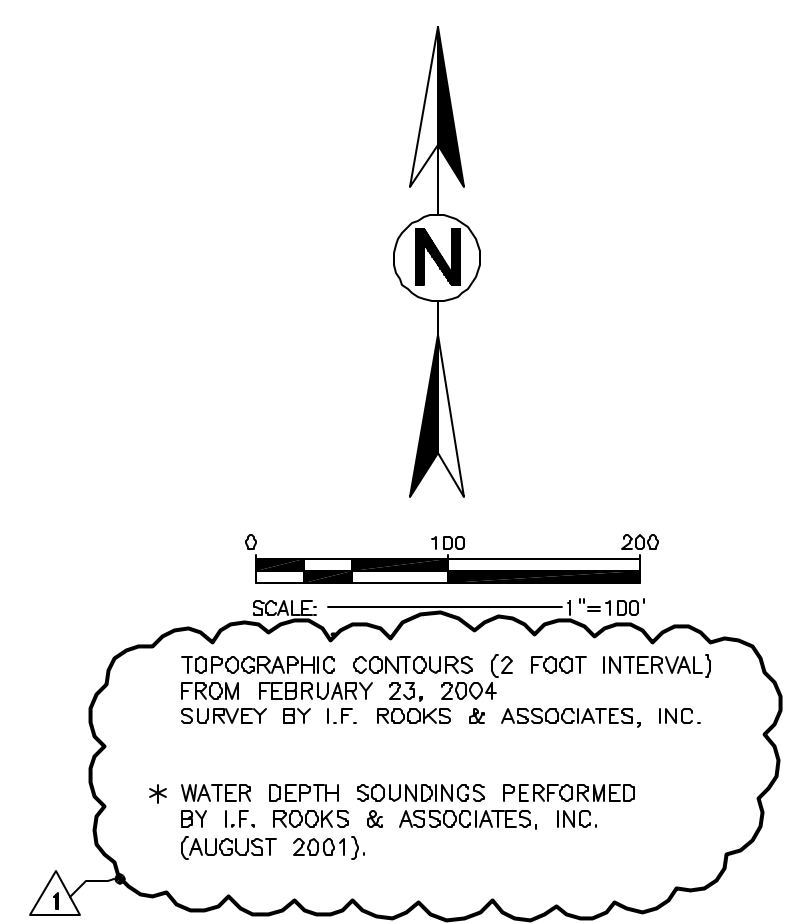
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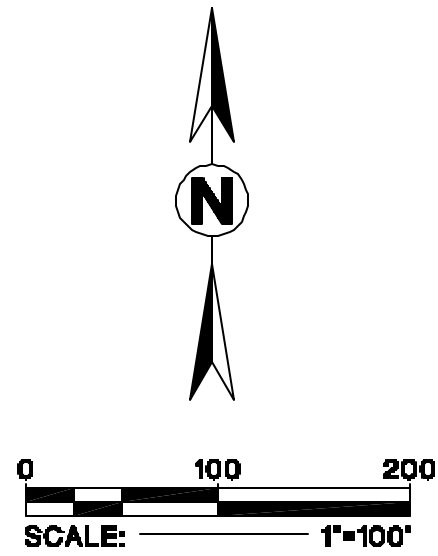
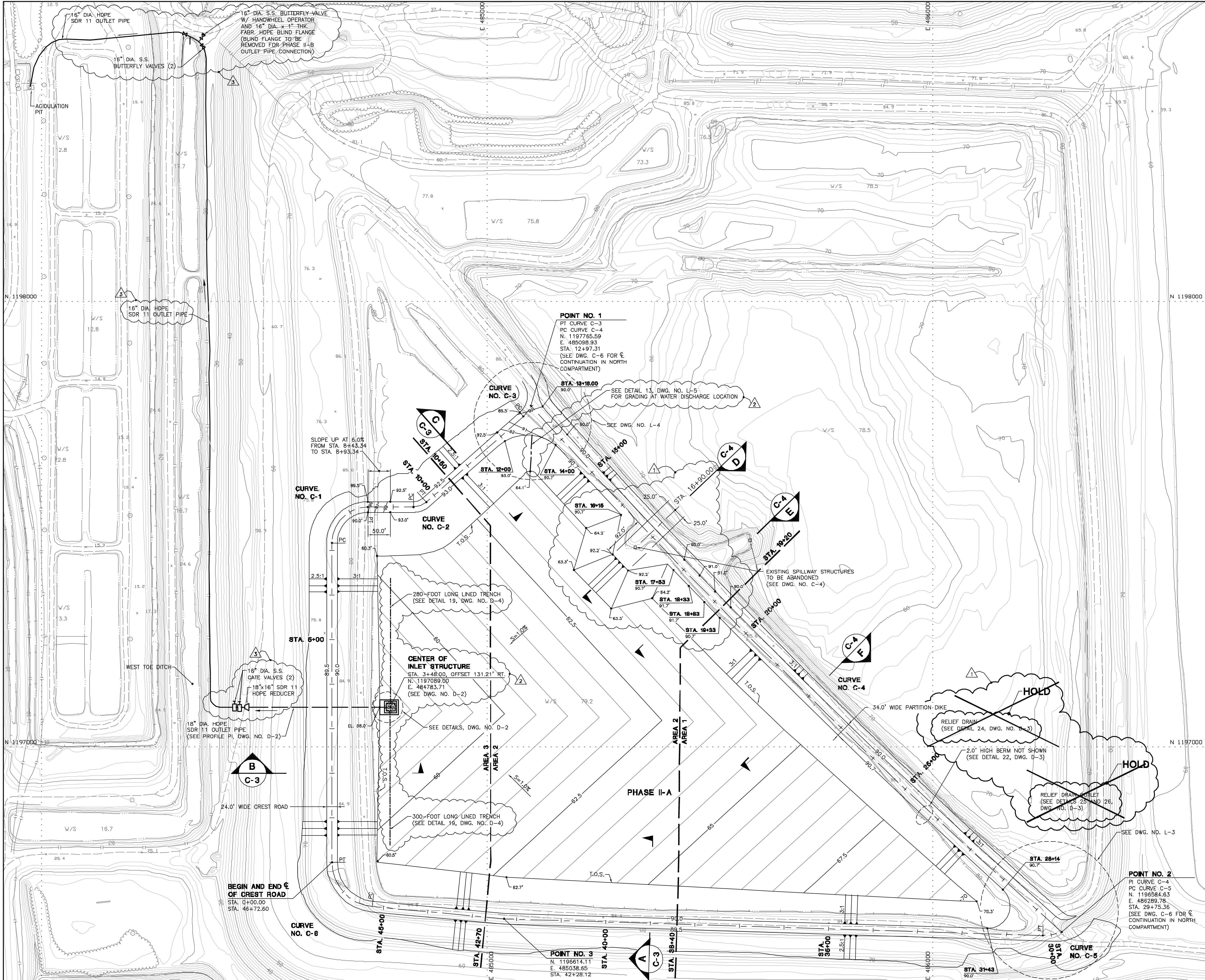
**GYPSUM STACK SYSTEM CLOSURE
PHASE II CONSTRUCTION
OLD GYPSUM STACK COMPARTMENTS
PINEY POINT FACILITY
MANATEE COUNTY, FLORIDA**

TOPOGRAPHIC MAP OF CONSTRUCTION AREA

DRAWING NO.

G-6



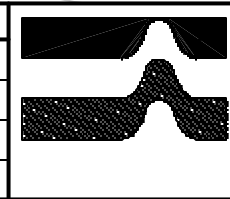


TOPOGRAPHIC SURVEY PERFORMED BY I.F. ROOKS & ASSOCIATES, INC. (FLIGHT DATE: NOV. 14, 2003)
POND BOTTOM CONTOURS BASED ON WATER DEPTH SOUNDINGS PERFORMED BY PICKETT & ASSOCIATES, INC. IN APRIL 2003.

CREST ROAD CENTERLINE CURVE DATA			
PI N PI E	CURVE NO. C-1	CURVE NO. C-2	CURVE NO. C-3
	1197538.25 484652.50	1197538.25 484851.83	1197787.88 485041.07
Δ	90°00'00"	41°25'08"	27°30'40"
R	80.75'	43.25'	62.00'
T	80.75'	16.35'	15.18'
L	126.84'	31.27'	29.77'
PC STA	07+16.50	09+45.57	12+67.54
PT STA	08+43.34	09+76.84	12+97.31

CREST ROAD CENTERLINE CURVE DATA			
PI N PI E	CURVE NO. C-4	CURVE NO. C-5	CURVE NO. C-6
	1197141.10 485660.62	1196576.06 486269.37	1196649.82 484652.52
Δ	06°32'19"	24°45'43"	84°43'01"
R	14704.17'	100.0'	100.0'
T	839.84'	21.05'	91.18'
L	1678.03'	43.42'	147.86'
PC STA	12+97.31	29+75.36	45+24.74
PT STA	29+75.36	30+18.78	46+72.60

REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D
				3	06/16/04	OUTLET PIPE REVISIONS	
				2	04/19/04	INLET STRUCTURE RELOCATION	
				1	03/17/04	GENERAL REVISIONS	
				0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	
				P1	01/12/04	ISSUED FOR REVIEW	
REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D



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NAME	DATE	NAME	DATE
DESIGNED BY	WEM 12/15/03	CHECKED BY	RJW 12/22/03
DRAWN BY	BTW 12/18/03	CHECKED BY	JFFL 12/23/03
FILE NO:	02-100A	SCALE:	1"=100'
APPROVED BY:			



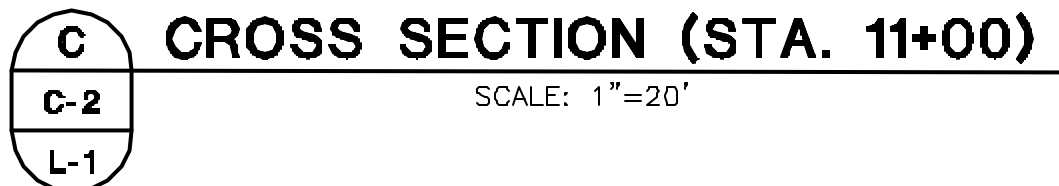
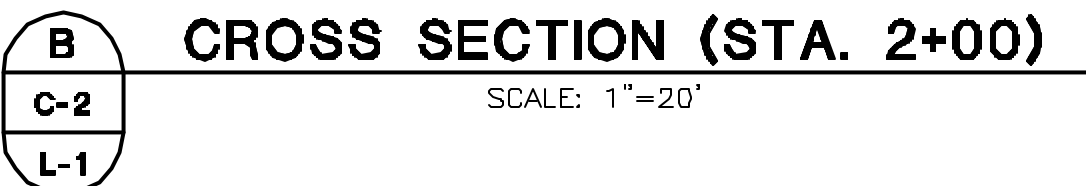
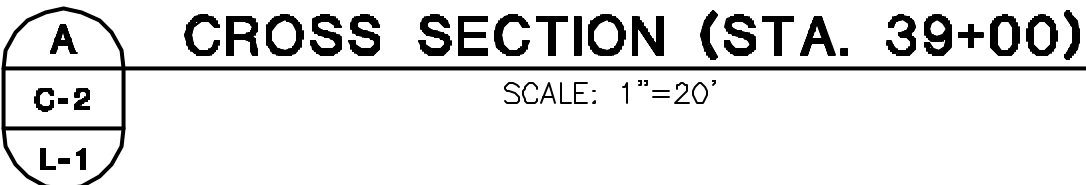
Florida
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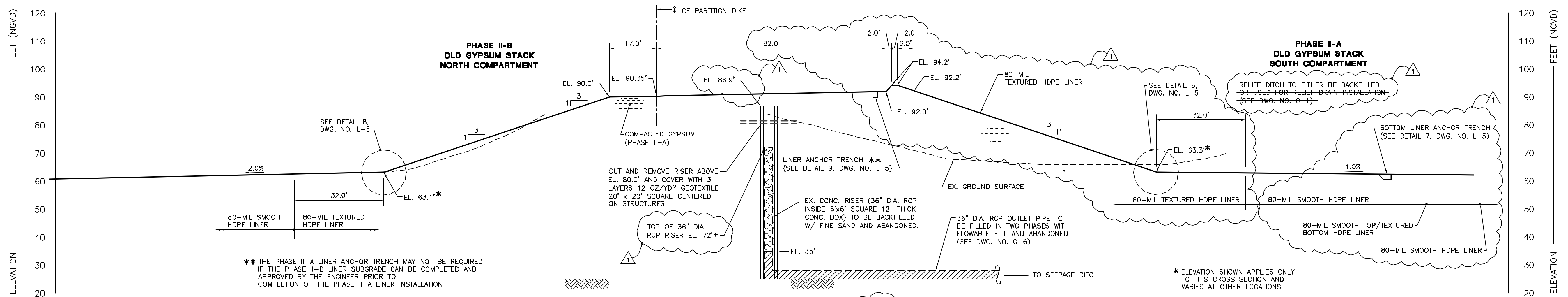
GYPSUM STACK SYSTEM CLOSURE
PHASE II CONSTRUCTION
OLD GYPSUM STACK COMPARTMENTS
PINEY POINT FACILITY
MANATEE COUNTY, FLORIDA

**SOUTH COMPARTMENT
ALIGNMENT AND GRADING PLAN**

C-2

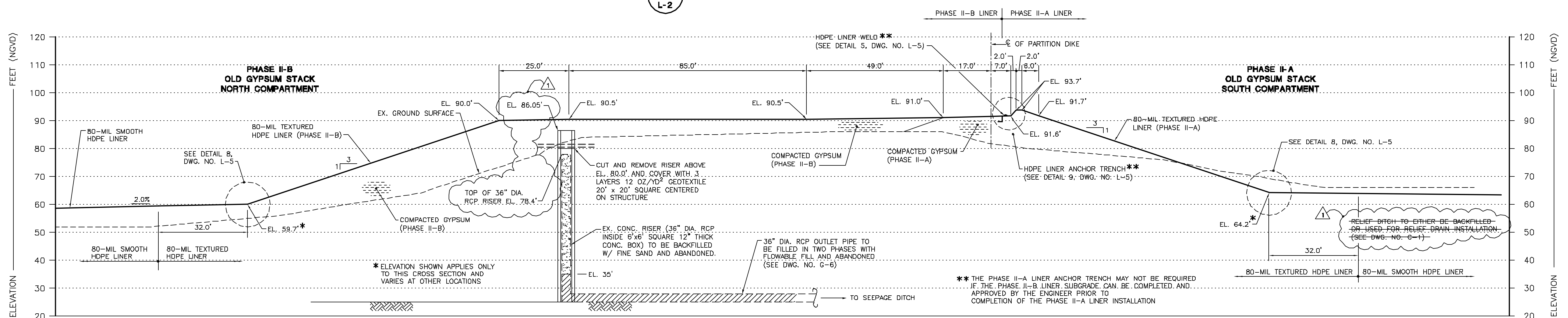
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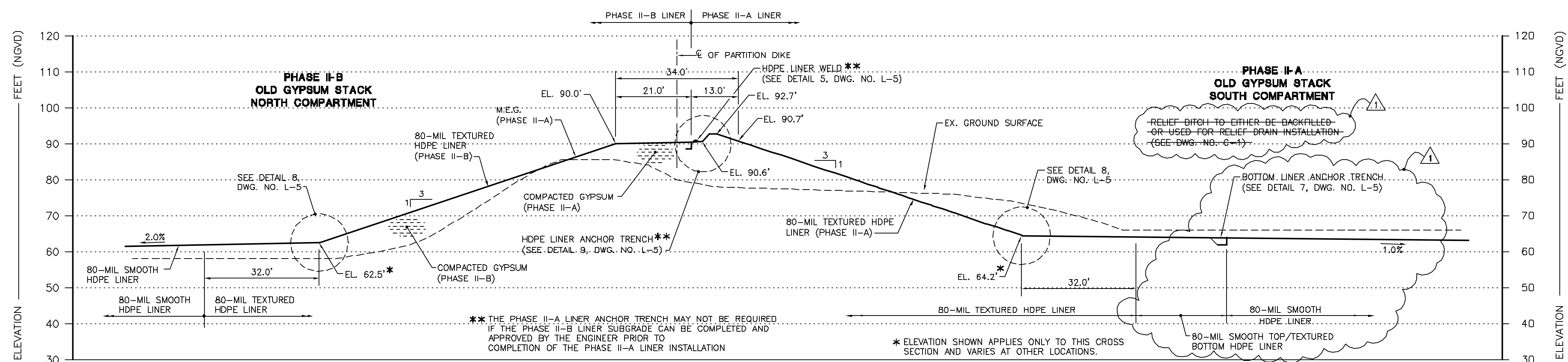
D CROSS SECTION (STA. 18+90)

SCALE: 1" = 20'



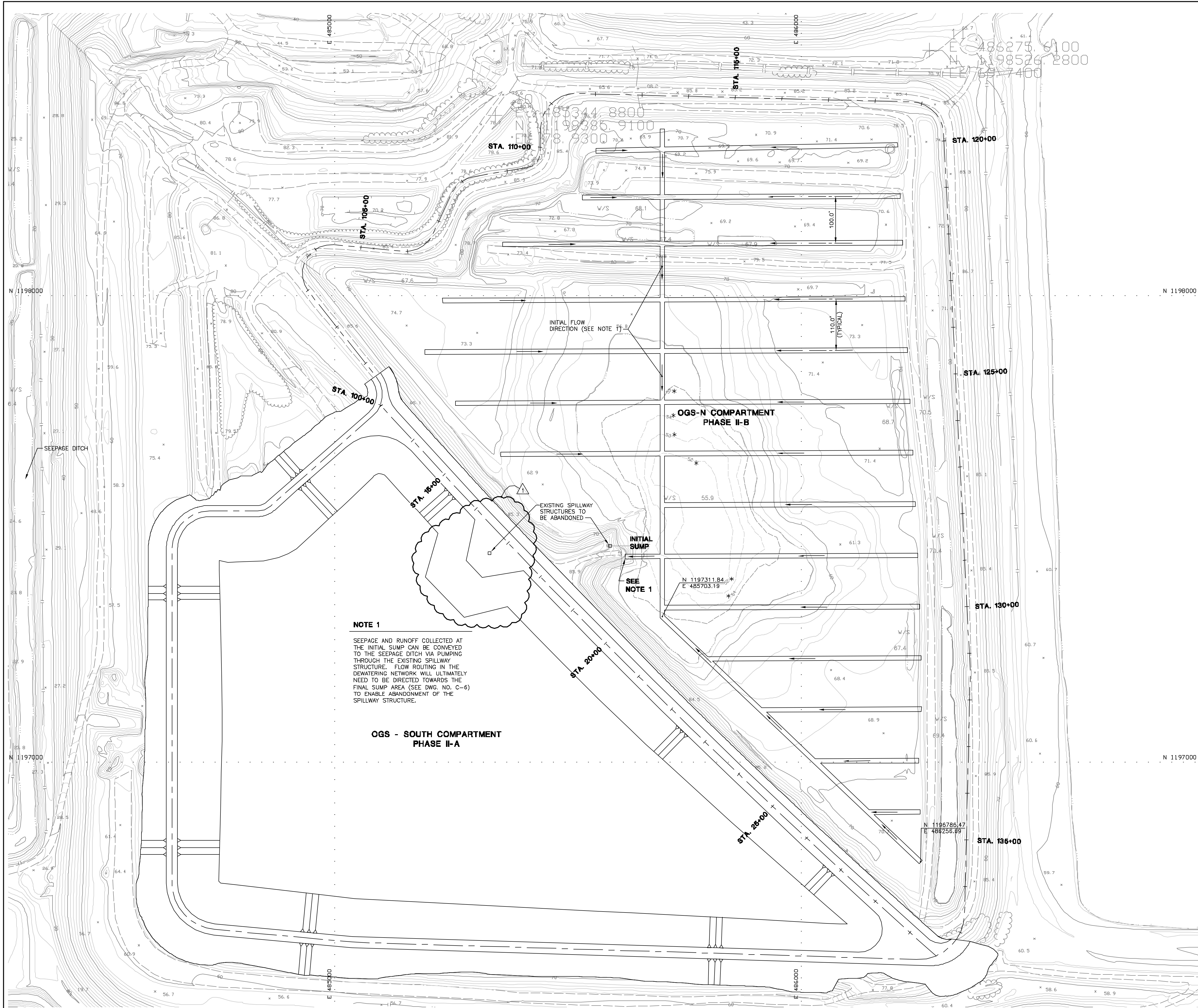
E CROSS SECTION (STA. 18+58)

SCALE: 1" = 20'



F CROSS SECTION (STA. 22+00)

SCALE: 1" = 20'



0 100 200
SCALE: 1"=100'
TOPOGRAPHIC SURVEY PERFORMED BY I.F. ROOKS & ASSOCIATES, INC. (FLIGHT DATE: FEBRUARY 23, 2003).
* POND BOTTOM CONTOURS BASED ON WATER DEPTH SOUNDINGS PERFORMED BY I.F. ROOKS & ASSOCIATES, INC. IN AUGUST 2001

REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D	APPROVED BY:
				1	03/17/04	UPDATE TOPOGRAPHIC MAP		
				0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	RJW	
				P1	01/12/04	ISSUED FOR REVIEW	RJW	

NAME	DATE	NAME	DATE
DESIGNED BY WEM	12/15/03	CHECKED BY RJW	12/22/03
DRAWN BY BTW	12/19/03	CHECKED BY JFFL	12/23/03
FILE NO: 02-100A		SCALE: 1"=100'	

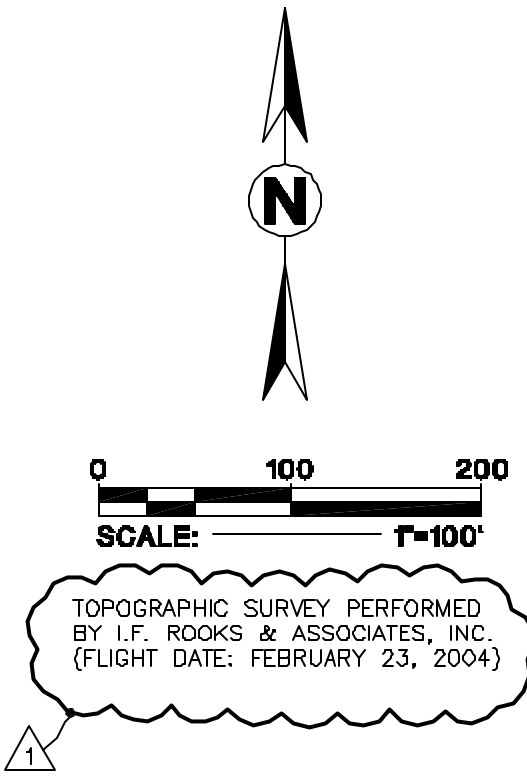
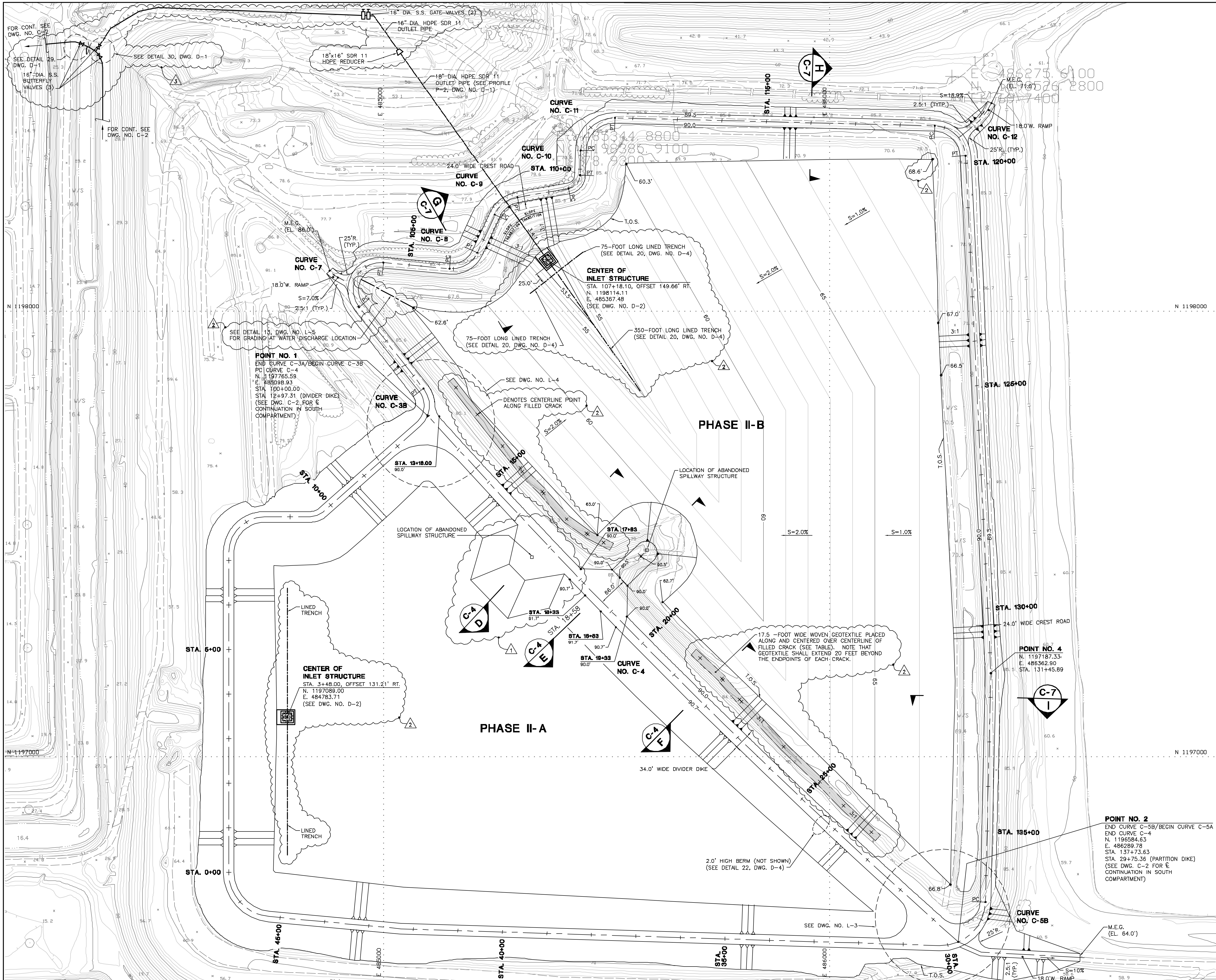
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OLD GYPSUM STACK COMPARTMENTS
PINEY POINT FACILITY
MANATEE COUNTY, FLORIDA

**NORTH COMPARTMENT
DEWATERING PLAN**

DRAWING NO. **C-5**



CREST ROAD CENTERLINE CURVE DATA			
	CURVE NO. C-3B	CURVE NO. C-4	CURVE NO. C-8B
PI N	1197798.65	1187141.10	1195609.83
PI E	485111.86	485660.62	486349.16
Δ	59°28'57"	06°32'19"	65°38'46"
R	62.00'	14704.17'	100.00'
T	35.42'	839.84'	64.50'
L	64.37'	1678.05'	114.57'
PC STA	100+00.00	12+97.31	136+59.05
PT STA	100+64.37	29+75.36	137+73.62

CREST ROAD CENTERLINE CURVE DATA			
	CURVE NO. C-7	CURVE NO. C-8	CURVE NO. C-9
PI N	1198122.59	1198090.67	1198249.15
PI E	484854.79	485192.05	485264.79
Δ	139°49'09"	70°45'03"	55°37'57"
R	62.00'	62.00'	68.75'
T	145.42'	44.02'	36.27'
L	144.81'	76.56'	66.75'
PC STA	102+96.96	105+81.08	107+61.72
PT STA	104+41.77	106+87.64	108+28.47

CREST ROAD CENTERLINE CURVE DATA			
	CURVE NO. C-10	CURVE NO. C-11	CURVE NO. C-12
PI N	1198279.21	1198435.19	1198413.84
PI E	485440.39	485444.27	486302.62
Δ	78°51'53"	90°00'00"	85°45'45"
R	31.25'	75.00'	70.75'
T	26.70'	65.00'	65.70'
L	43.01'	117.81'	105.90'
PC STA	109+44.66	110+41.99	118+77.70
PT STA	109+87.67	111+59.80	119+83.60

CENTERLINE ALIGNMENT OF FILLED CRACKS		
NORTHING (feet)	EASTING (feet)	ELEVATION (feet NGVD)
Crack South of Existing Spillway Structure		
1196831.3	486094.8	71.4
1196889.9	486032.3	71.5
1196944.7	485979.1	70.2
1197022.4	485898.1	68.3
1197123.7	485803.0	67.9
1197228.7	485799.6	65.9
1197172.1	485761.1	65.3
1197175.4	485759.0	63.4
1197221.2	485710.6	63.5
Crack North of Existing Spillway Structure		
1197480.8	485493.5	67.4
1197499.1	485458.6	67.5
1197501.6	485455.3	66.5
1197533.2	485411.0	67.4
1197591.3	485359.8	68.3
1197595.0	485356.5	69.1
1197640.0	485311.8	69.4
1197648.1	485306.8	69.0
1197693.6	485271.5	69.3
1197696.8	485267.2	69.6
1197764.2	485213.6	69.9
1197767.6	485210.7	69.5
1197828.7	485162.3	69.5

REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D
2	04/20/04	WOVEN GEOTEXTILE PLACEMENT AND INLET RELOCATIONS	RJW	1	03/17/04	REVISED OUTLET PIPE DIAMETER; UPDATED TOPOGRAPHIC MAP	RJW
3	06/16/04	OUTLET PIPE REVISIONS	P1	0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	RJW
				1	01/12/04	ISSUED FOR REVIEW	RJW

NAME	DATE	NAME	DATE
DESIGNED BY WEM	12/15/03	CHECKED BY RJW	12/22/03
DRAWN BY BTW	12/19/03	CHECKED BY JFFL	12/23/03
FILE NO.: 02-100A		SCALE: 1"=100'	
APPROVED BY:			

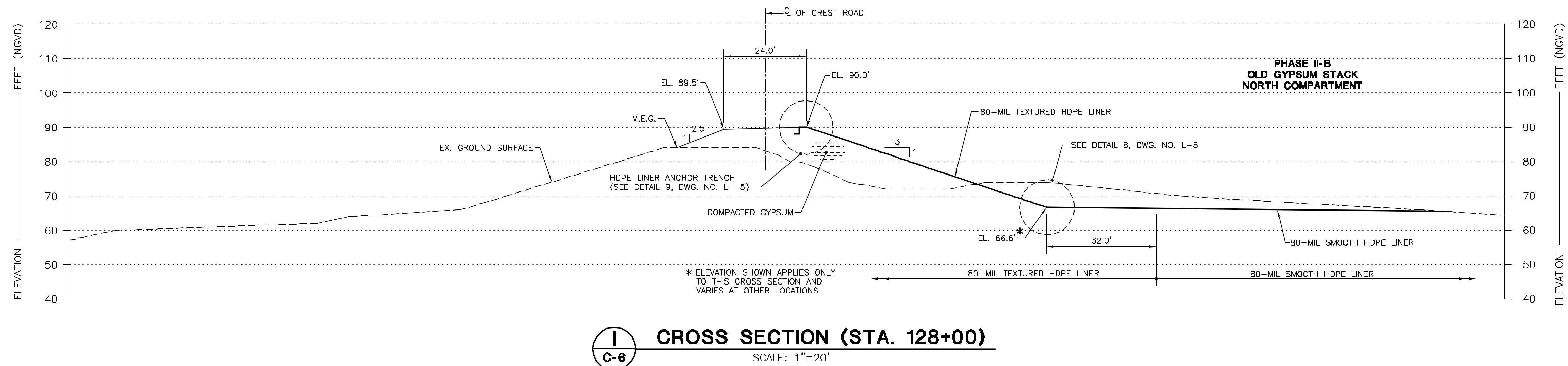
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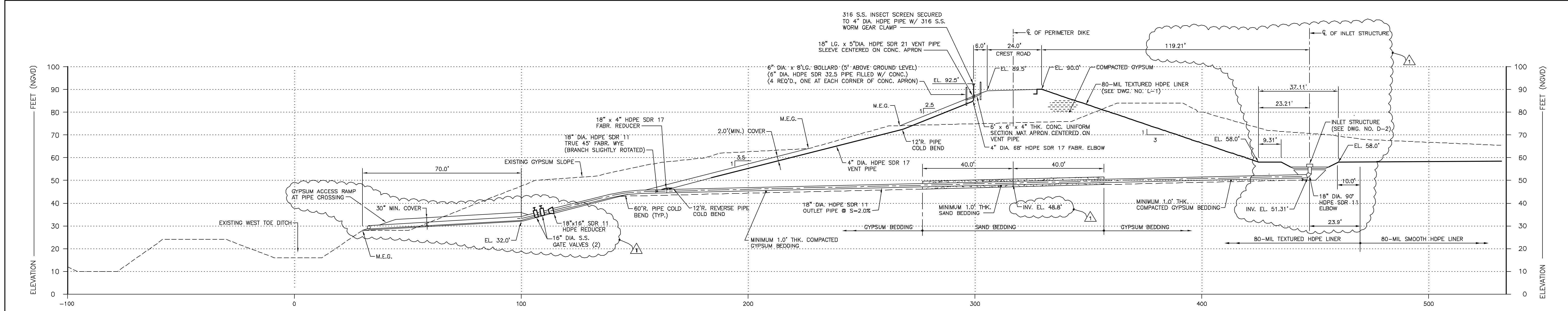
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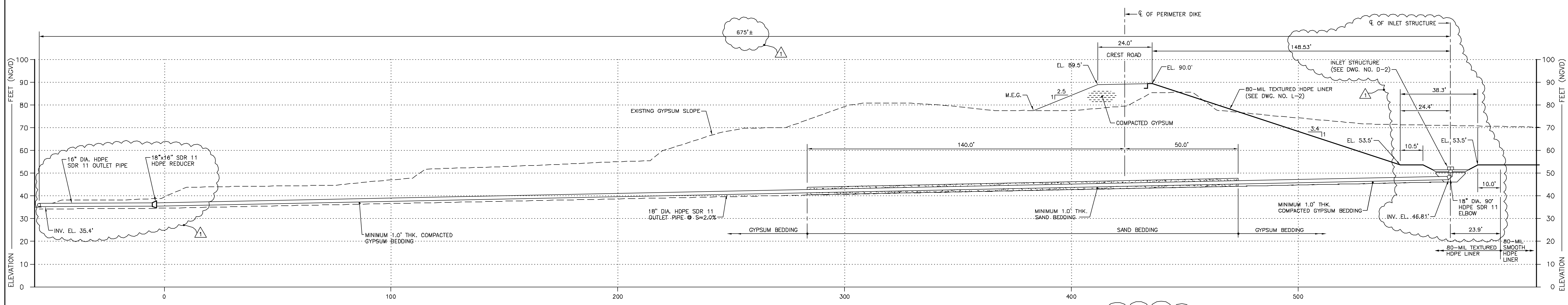
NORTH COMPARTMENT ALIGNMENT AND GRADING PLAN

DRAWING NO. C-6

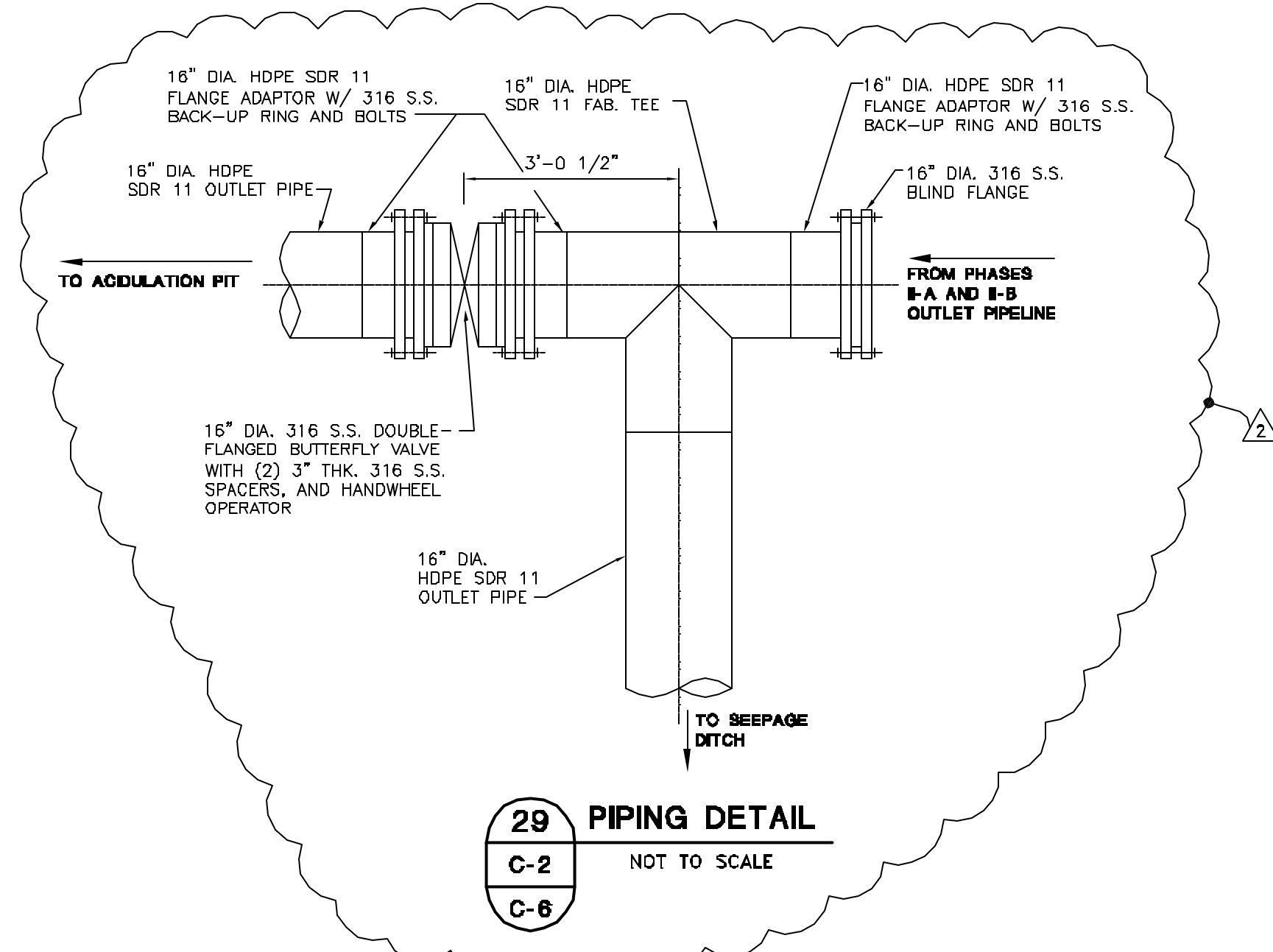
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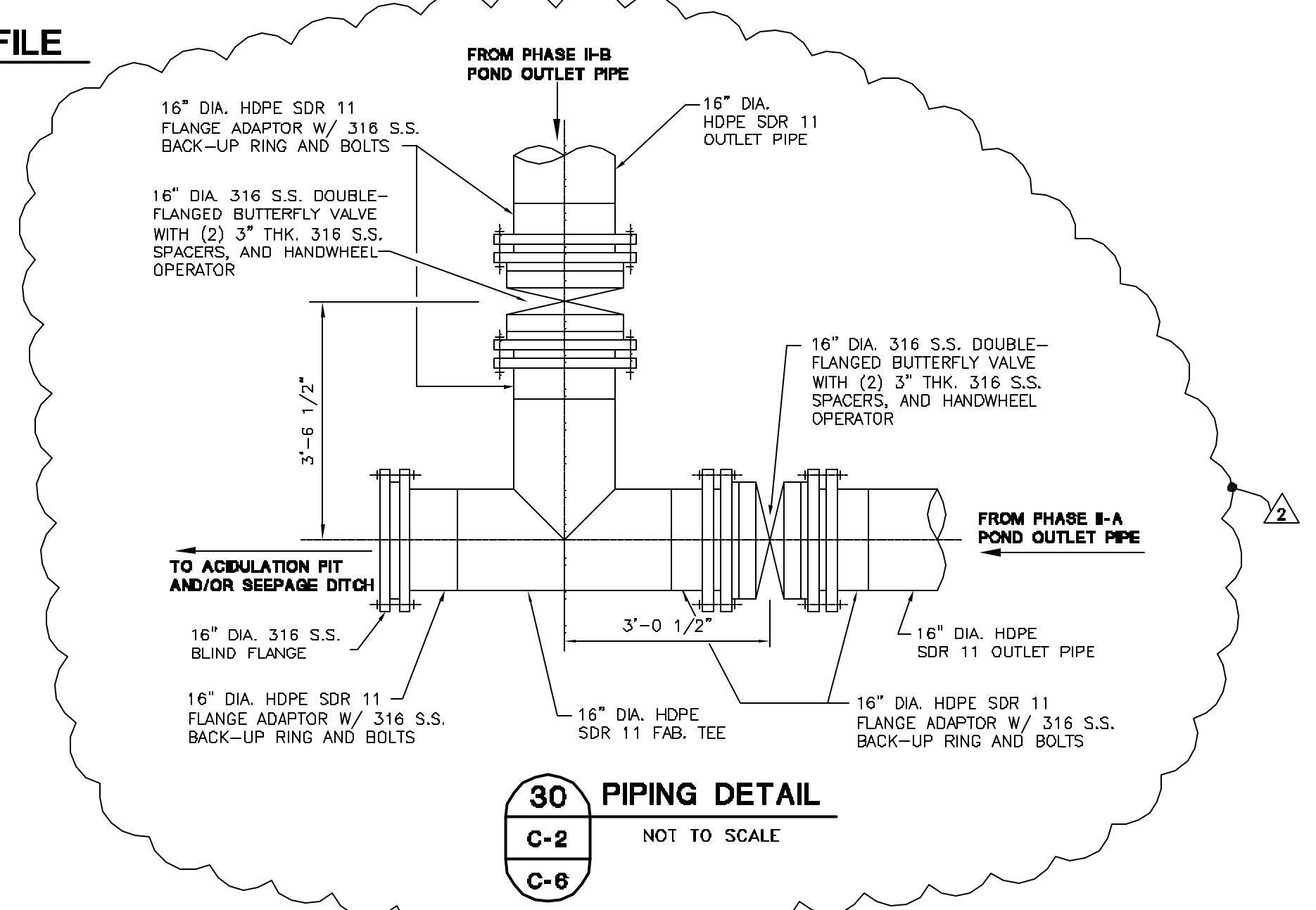
P1 SOUTH COMPARTMENT OUTLET PIPE PROFILE
SCALE: 1"=20'



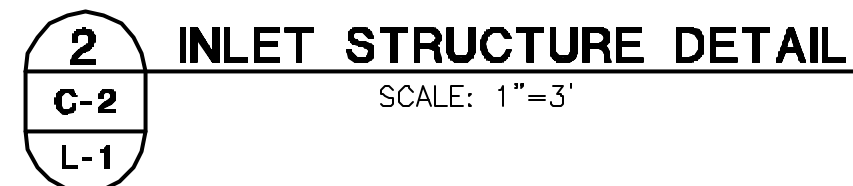
P2 NORTH COMPARTMENT OUTLET PIPE PROFILE
SCALE: 1"=20'



29 PIPING DETAIL
NOT TO SCALE



30 PIPING DETAIL
NOT TO SCALE

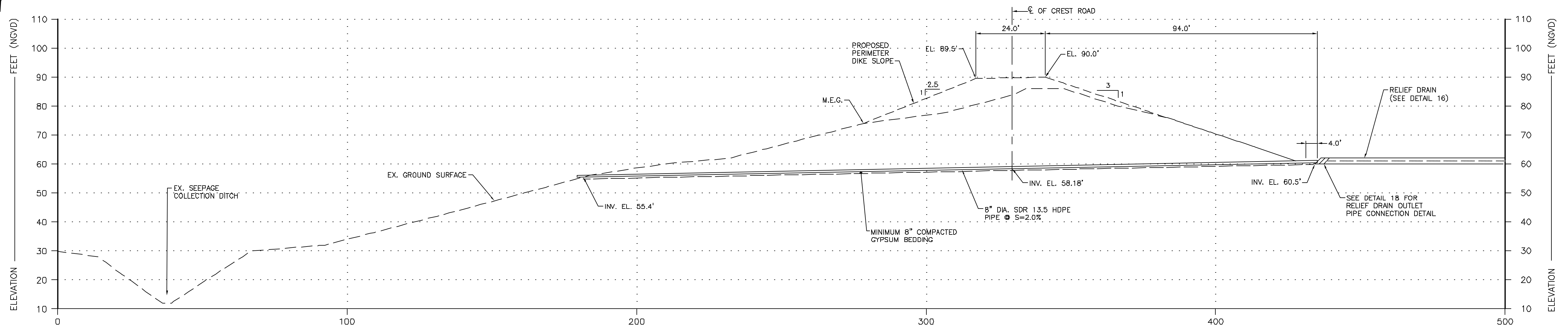


K CROSS SECTION
D-2

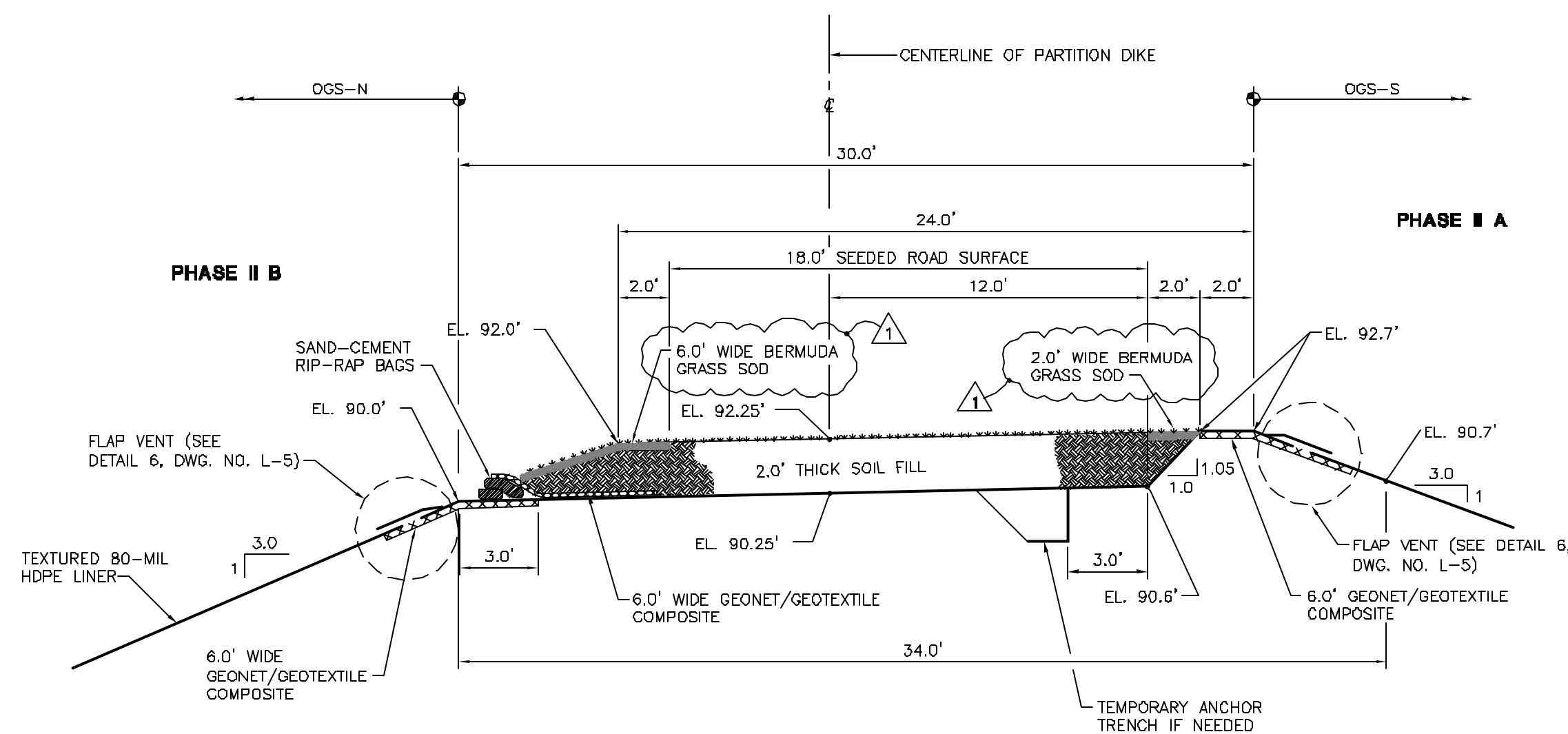


3 HDPE PLATE AND CONNECTION DETAIL

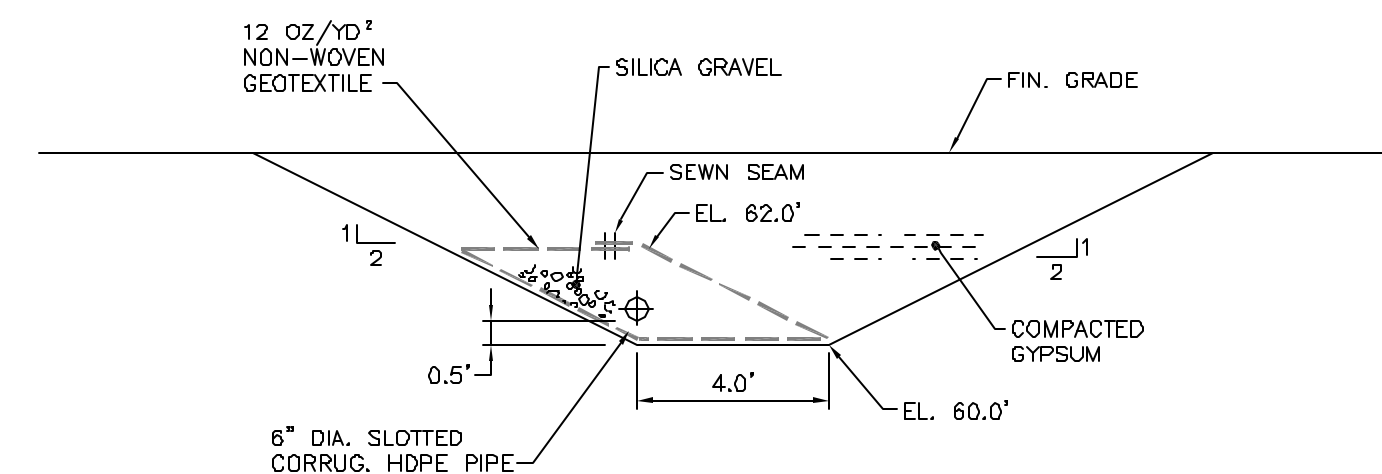
D-2



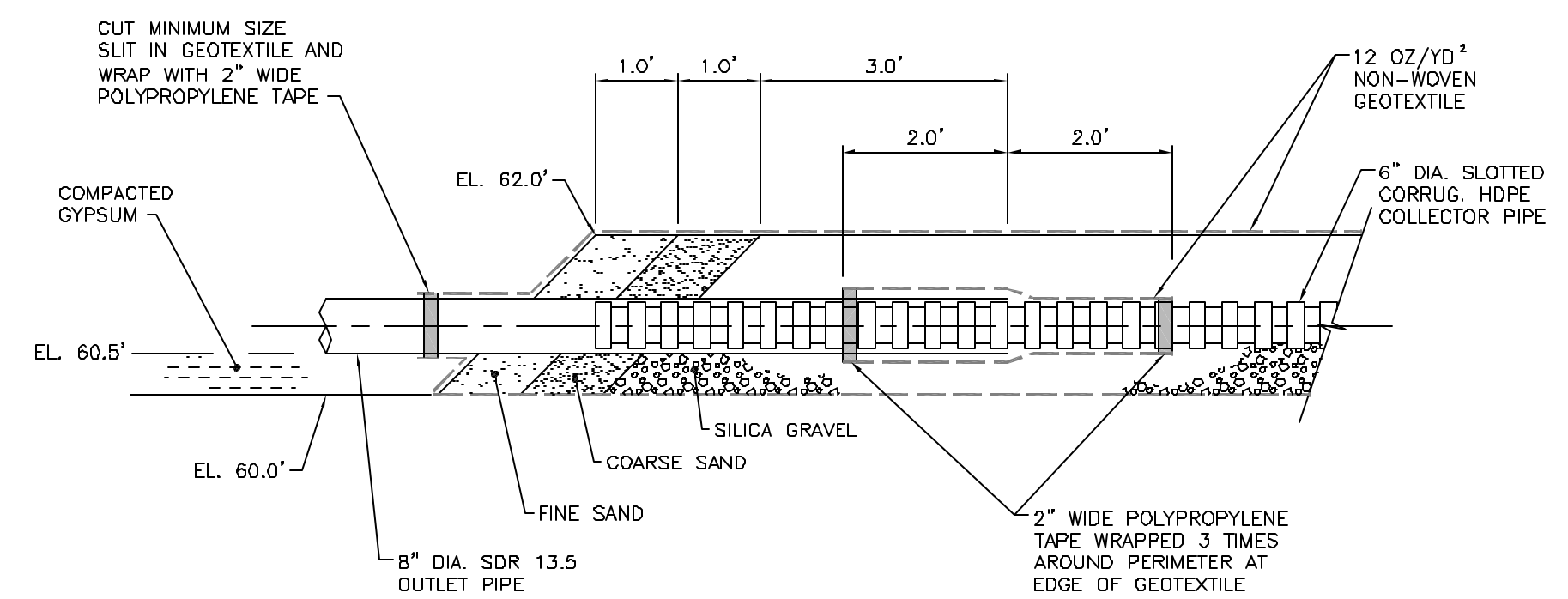
17 SOUTH COMPARTMENT RELIEF DITCH OUTLET PROFILE
 SCALE: 1"=20'



15 PARTITION DIKE CREST DETAIL
 SCALE: 1" = 5'



16 RELIEF DRAIN DETAIL
 SCALE: 1" = 4'



18 RELIEF DRAIN OUTLET PIPE CONNECTION DETAIL
 SCALE: 1" = 2'

REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D
				1	03/17/04	REVISED SOD TYPE - DETAIL 15	
				0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	
				P1	01/12/04	ISSUED FOR REVIEW	

NAME	DATE	NAME	DATE
JFFL	12/19/03	RJW	12/22/03
DA	12/19/03	JFFL	12/23/03
FILE NO: 02-100A		SCALE: 1"=20'	

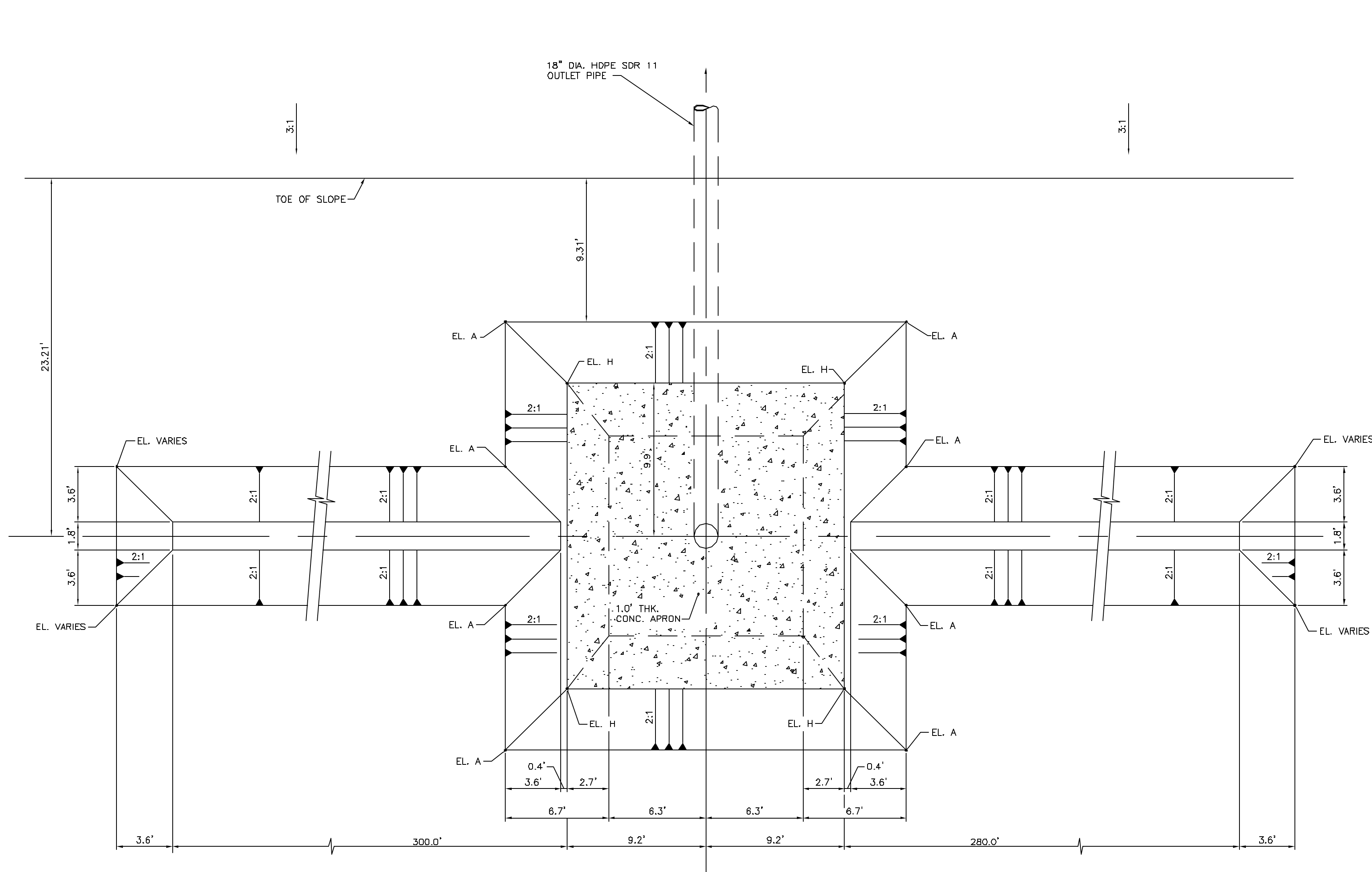
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 Geotechnical, Environmental and Materials Consultants
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**GYPSUM STACK SYSTEM CLOSURE
 PHASE II CONSTRUCTION
 OLD GYPSUM STACK COMPARTMENTS
 PINEY POINT FACILITY
 MANATEE COUNTY, FLORIDA**

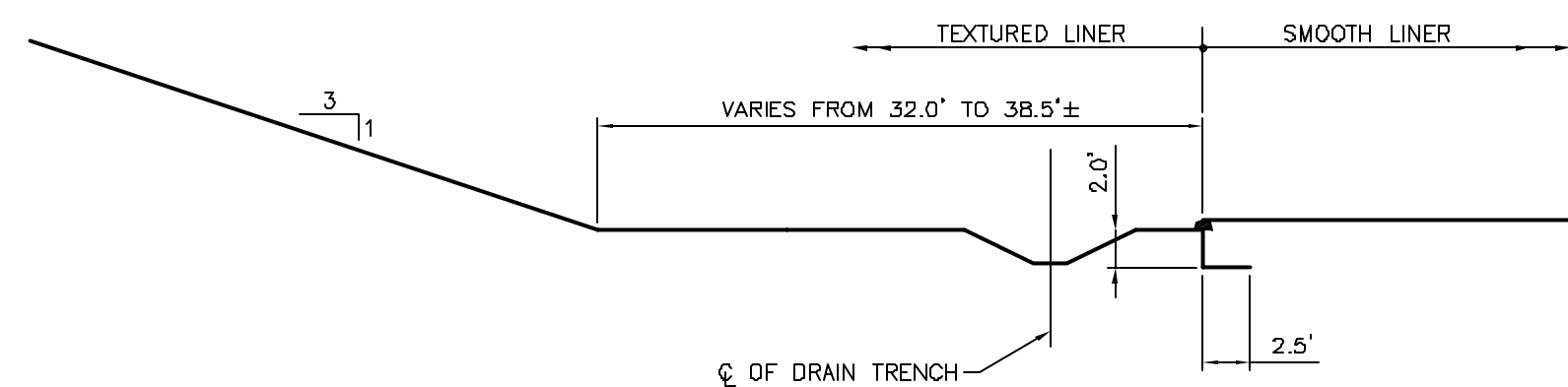
MISCELLANEOUS DETAILS

D-3

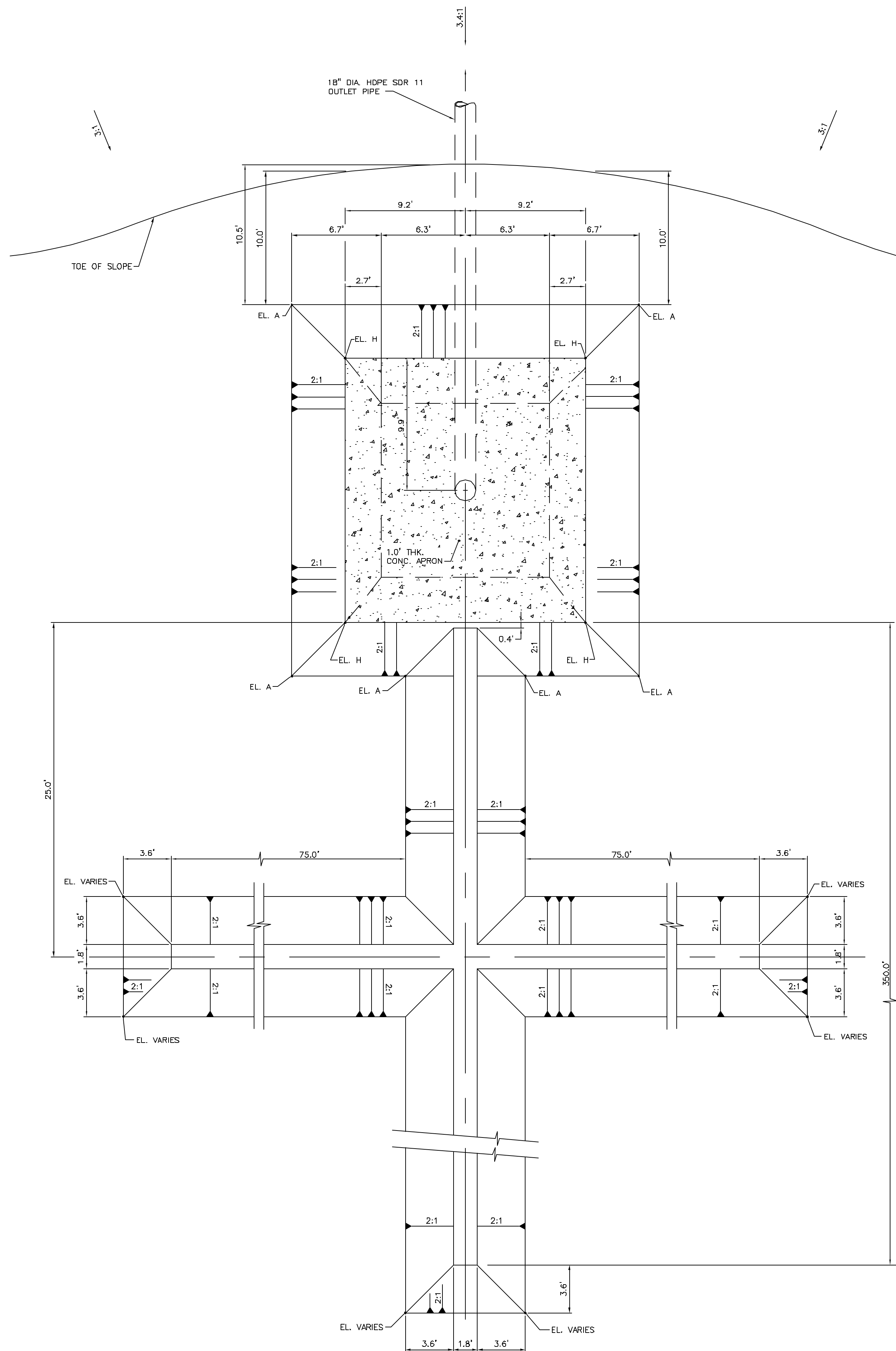


19 DRAIN TRENCH DETAIL FOR SOUTH COMPARTMENT
C-2 SCALE: 1" = 5'

ELEVATION SCHEDULE		
POINT	NORTH COMPARTMENT	SOUTH COMPARTMENT
A	53.50	58.00
H	51.50	56.00



21 TOE OF SLOPE WIND BALLAST TRENCH DETAIL FOR AREA ADJACENT TO DRAIN TRENCH
L-1 SCALE: 1" = 10'



20 DRAIN TRENCH DETAIL FOR NORTH COMPARTMENT
C-8 SCALE: 1" = 5'



REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D
				3	04/19/04	RELOCATION OF INLET STRUCTURE	
				2	03/17/04	ADDED LIMITS AREAS 1, 2 & 3	
				1	02/26/04	REVISED BALLAST TRENCH SPACING	
				0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	
				P1	01/12/04	ISSUED FOR REVIEW	

NAME	DATE	NAME	DATE
DESIGNED BY	WEM 12/15/03	CHECKED BY	RJW 12/22/03
DRAWN BY	BTW 12/18/03	CHECKED BY	JFFL 12/23/03
FILE NO:	02-100A	SCALE:	1"=100'
APPROVED BY:			

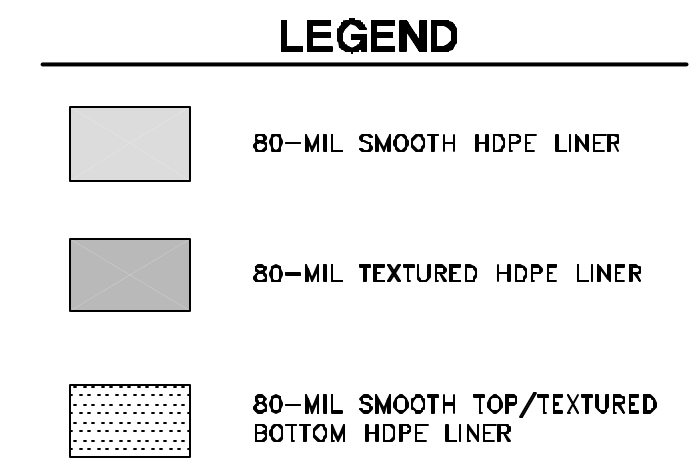
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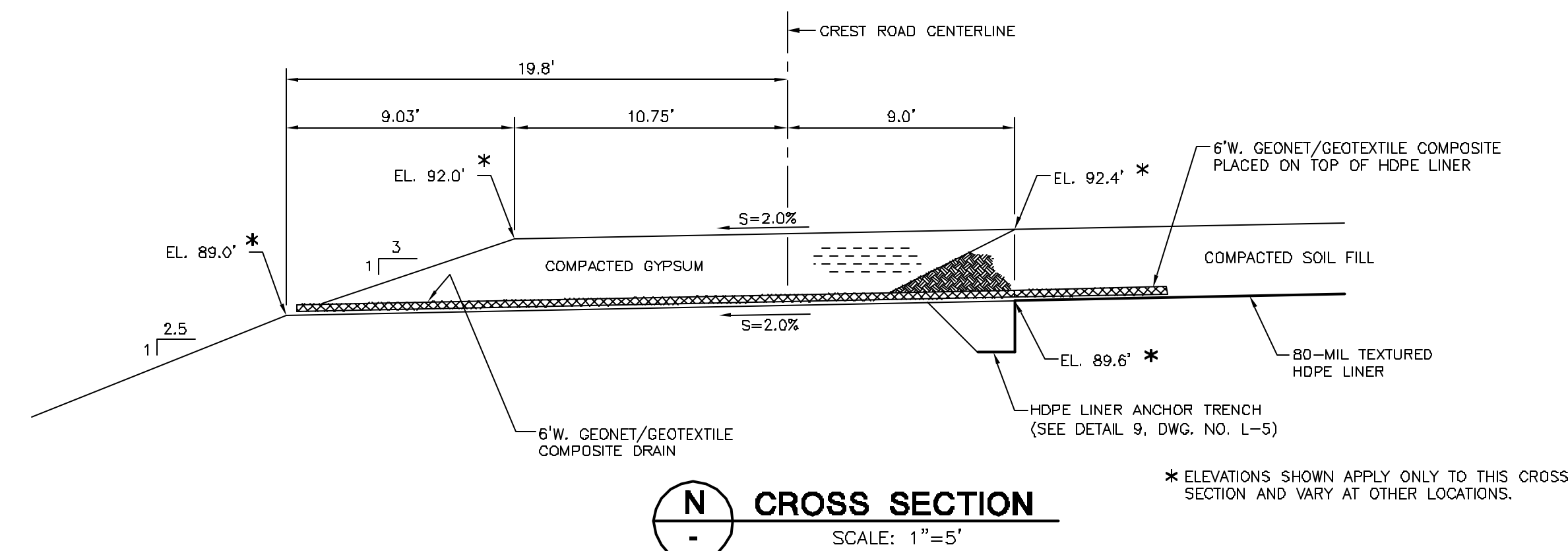
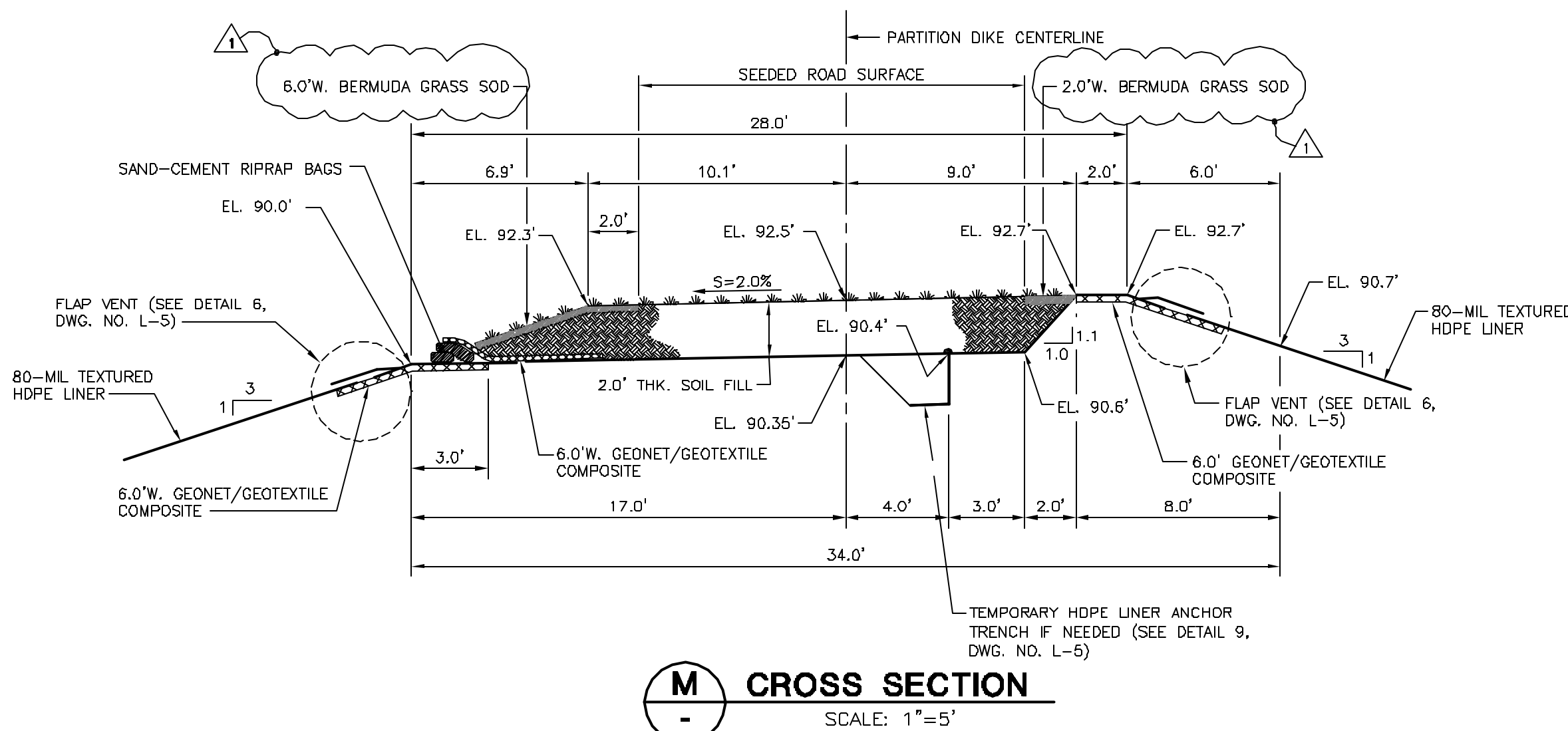
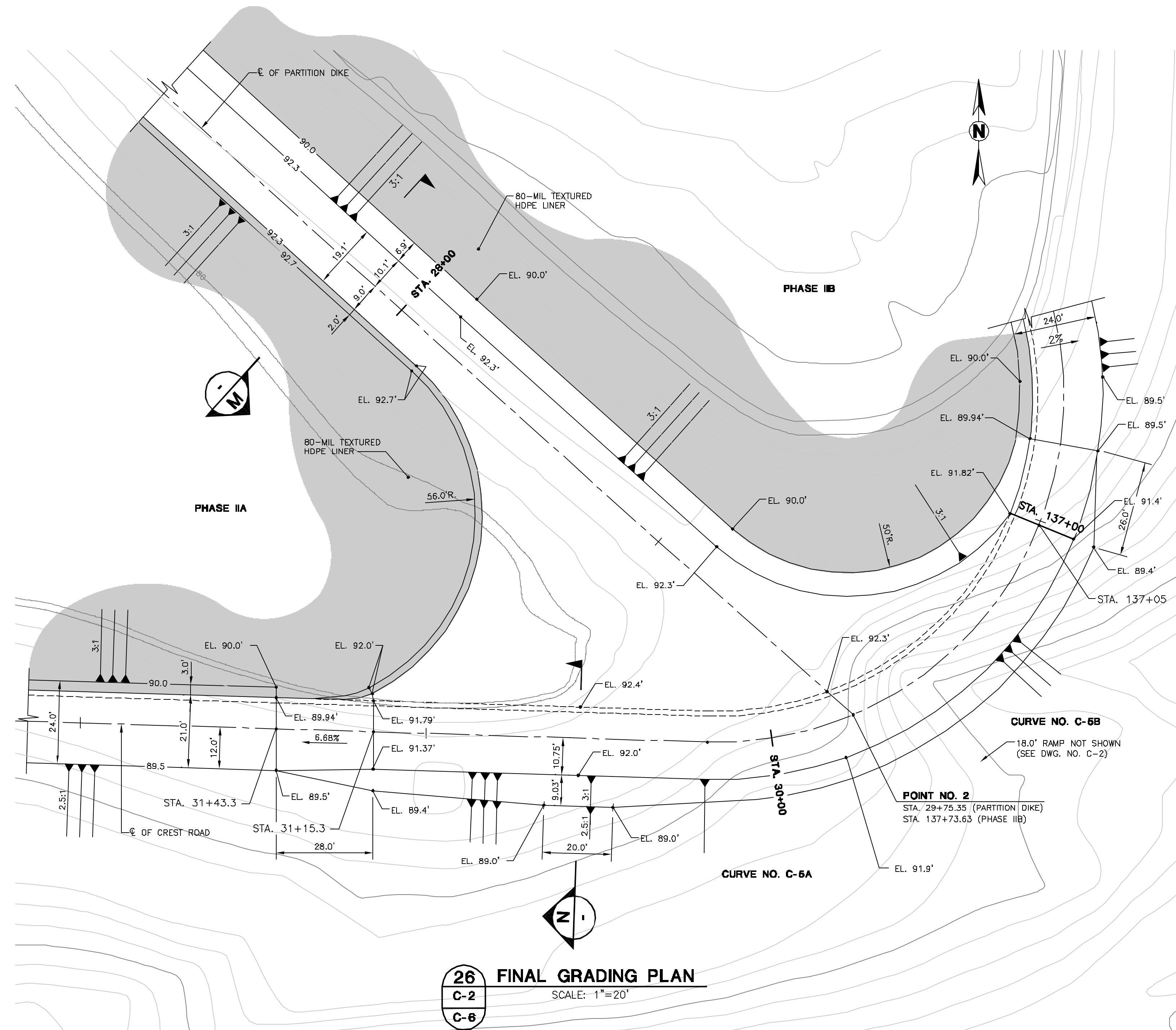
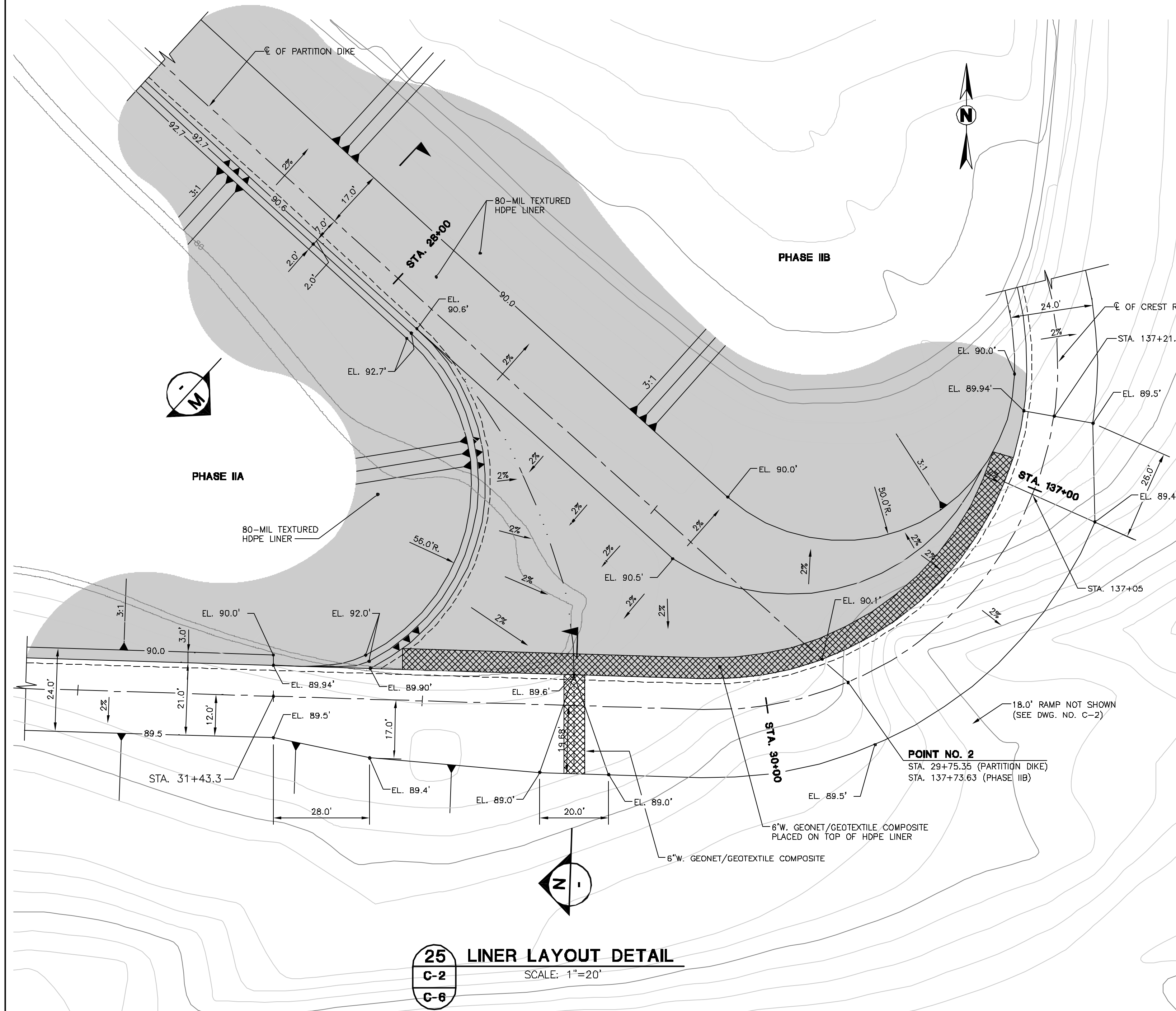
**GYPSUM STACK SYSTEM CLOSURE
PHASE II CONSTRUCTION
OLD GYPSUM STACK COMPARTMENTS
PINEY POINT FACILITY
MANATEE COUNTY, FLORIDA**

**SOUTH COMPARTMENT
LINER PLAN**

DRAWING NO. **L-1**



				3	06/18/04	RELOCATION OF BALLAST TRENCHES			NAME	DATE		NAME	DATE	 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants 8008 S. Grange Ave., Orlando, FL 32809 TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950	 Florida Department of Environmental Protection and, Louis J. Timchak, Jr. - Receiver	GYPSUM STACK SYSTEM CLOSURE PHASE II CONSTRUCTION OLD GYPSUM STACK COMPARTMENTS PINEY POINT FACILITY MANATEE COUNTY, FLORIDA	NORTH COMPARTMENT LINER PLAN	DRAWING NO. L-2
			2	04/20/04	RELOCATION OF INLET STRUCTURES	RJW	DESIGNED BY	WEM	12/15/03	CHECKED BY	RJW	12/22/03						
			1	03/17/04	REVISED BALLAST TRENCH SPACING	RJW	DRAWN BY	BTW	12/19/03	CHECKED BY	JFFL	12/23/03						
			0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	RJW	FILE NO.: 02-100A				SCALE: 1"=100'							
			P1	01/12/04	ISSUED FOR REVIEW	RJW	APPROVED BY:											
REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D											



REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D	APPROVED BY:
1	03/17/04	REVISED SOD TYPE - SECTIONS M & N						
0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)						
P1	01/12/04	ISSUED FOR REVIEW						

NAME	DATE	NAME	DATE
DESIGNED BY	JFFL 12/30/03	CHECKED BY	RJW 12/22/03
DRAWN BY	ADA 12/30/03	CHECKED BY	JFFL 12/23/03
FILE NO.	02-100A	SCALE	AS SHOWN

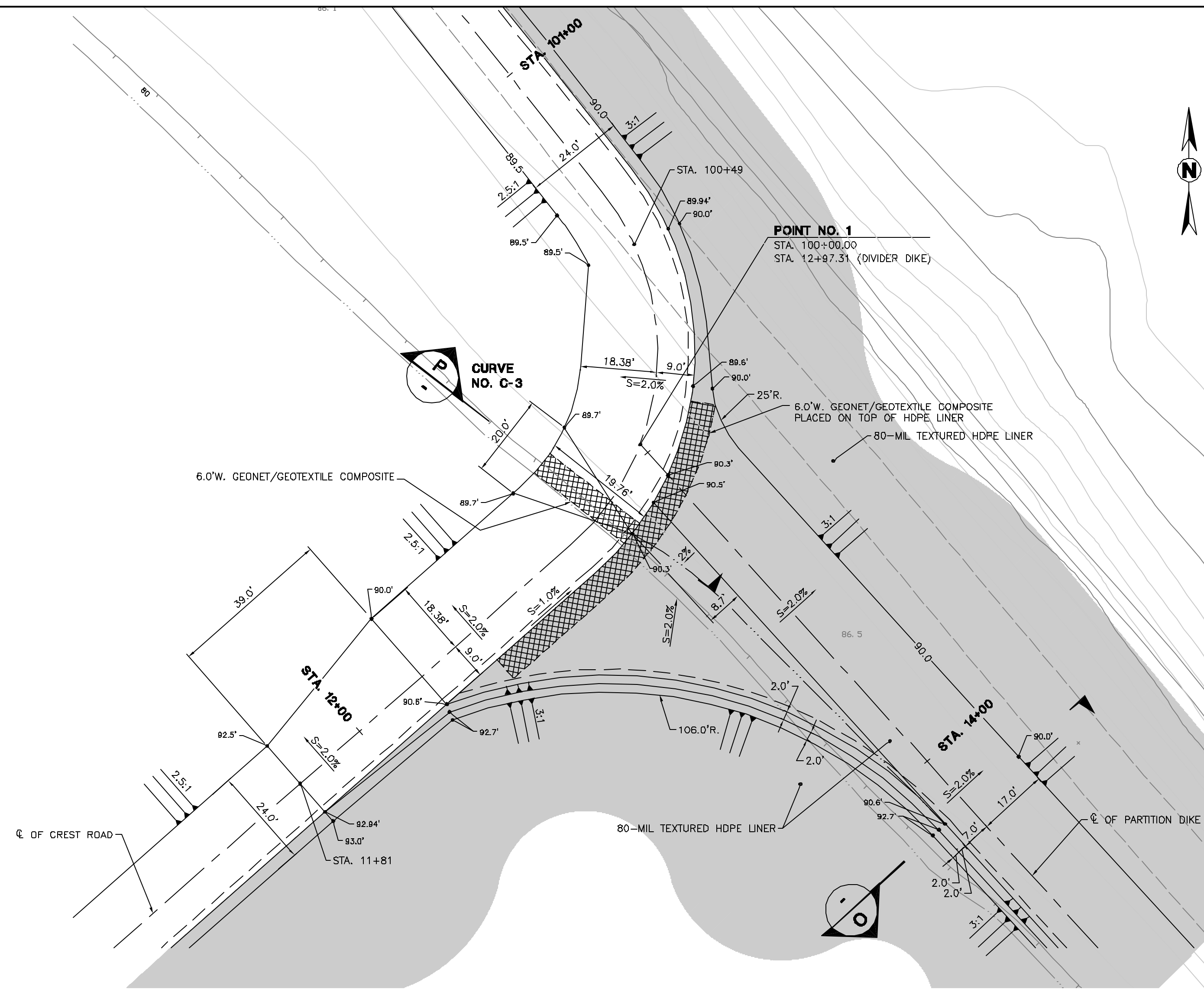
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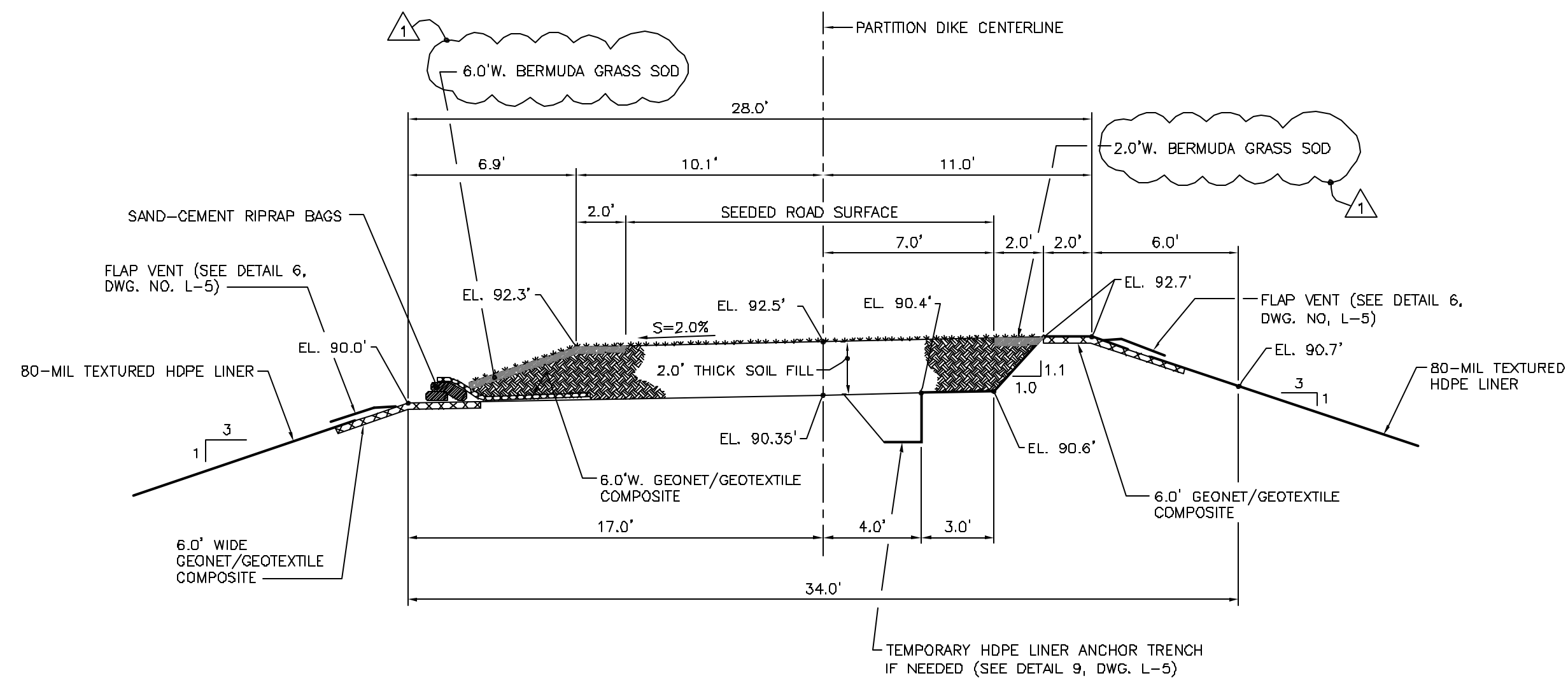
**GYPSUM STACK SYSTEM CLOSURE
PHASE II CONSTRUCTION
OLD GYPSUM STACK COMPARTMENTS
PINEY POINT FACILITY
MANATEE COUNTY, FLORIDA**

**SOUTHEAST CORNER
LINER DETAILS**

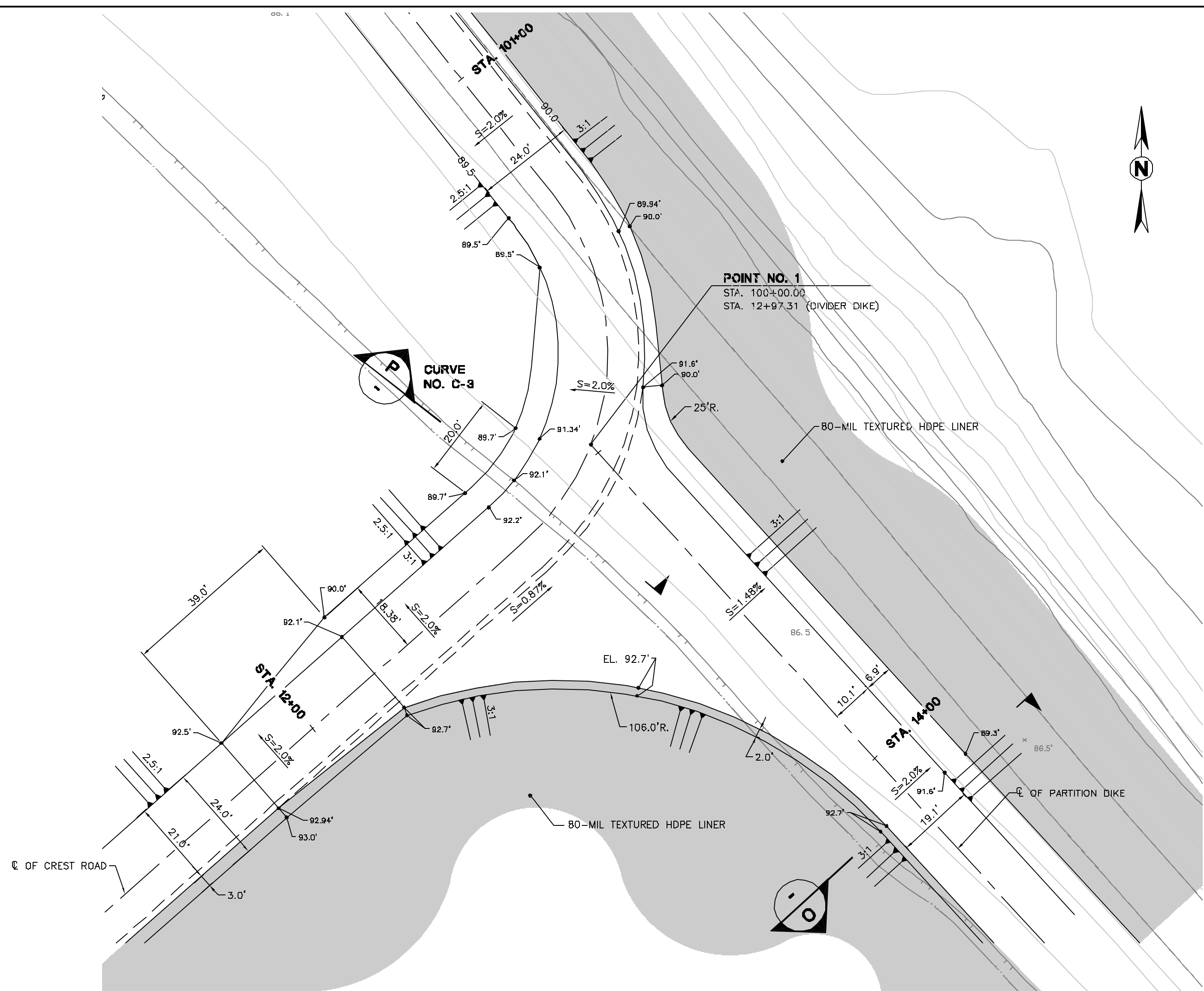
DRAWING NO.
L-3



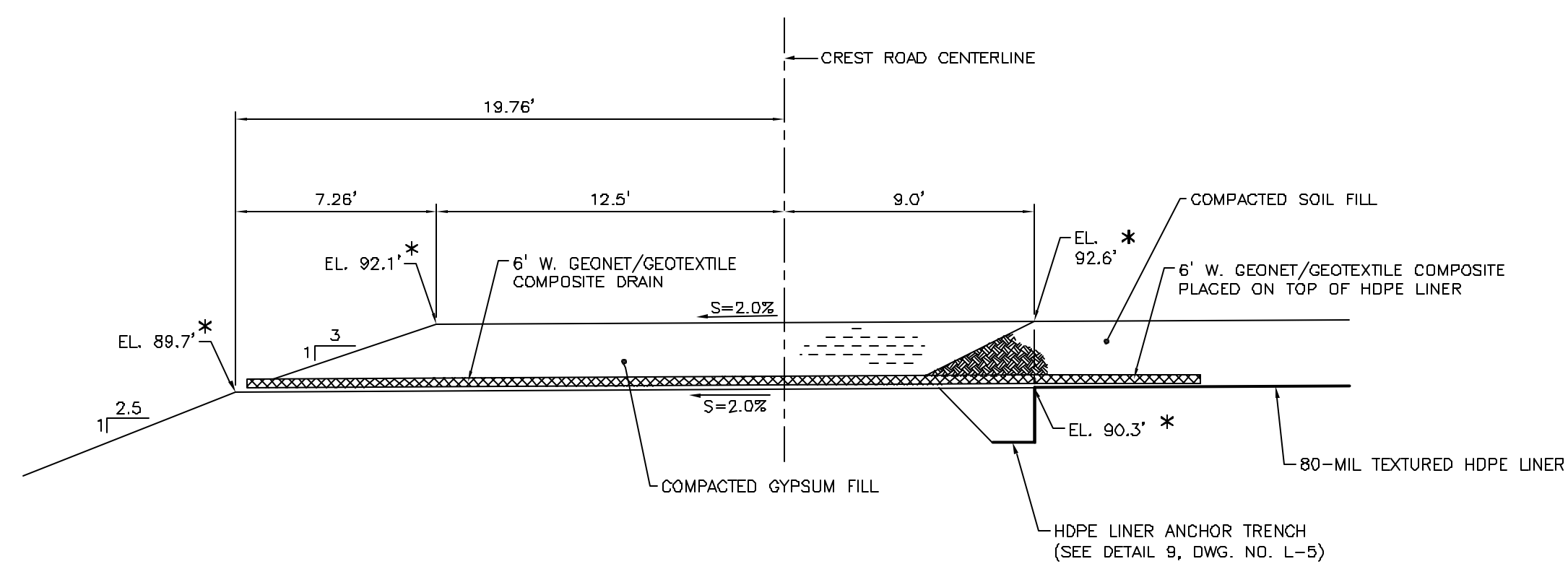
27 LINER LAYOUT DETAIL
C-2 SCALE: 1" = 20'
C-8



O CROSS SECTION
 - SCALE: 1" = 5'



28 FINAL GRADING PLAN
C-2 SCALE: 1" = 20'
C-8



S CROSS SECTION
 - SCALE: 1" = 5'

* ELEVATIONS SHOWN APPLY ONLY TO THIS CROSS SECTION AND VARY AT OTHER LOCATIONS.

REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D
				1	03/17/04	REVISED SOD TYPE - SECTIONS O & P	
				0	02/16/04	ISSUED FOR CONSTRUCTION (WITHOUT CHANGES)	
				P1	01/12/04	ISSUED FOR REVIEW	

NAME	DATE	NAME	DATE
DESIGNED BY JFFL	12/30/03	CHECKED BY RJW	12/22/03
DRAWN BY BTW	12/31/03	CHECKED BY JFFL	12/23/03
RJW	FILE NO: 02-100A	SCALE: AS SHOWN	
APPROVED BY:			

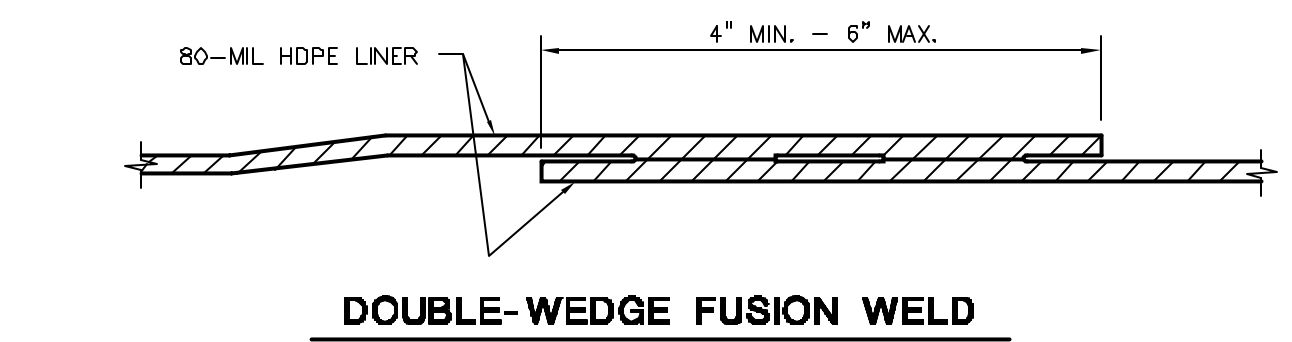
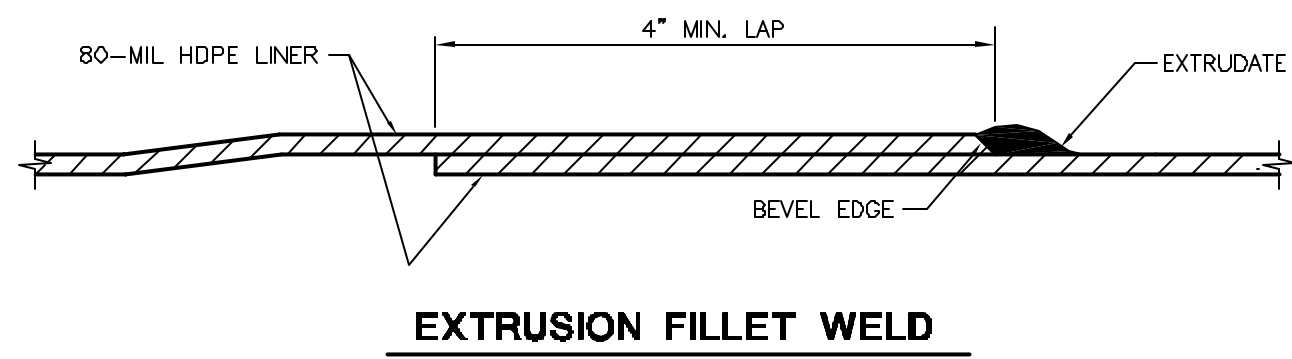
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**GYPSUM STACK SYSTEM CLOSURE
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 PINEY POINT FACILITY
 MANATEE COUNTY, FLORIDA**

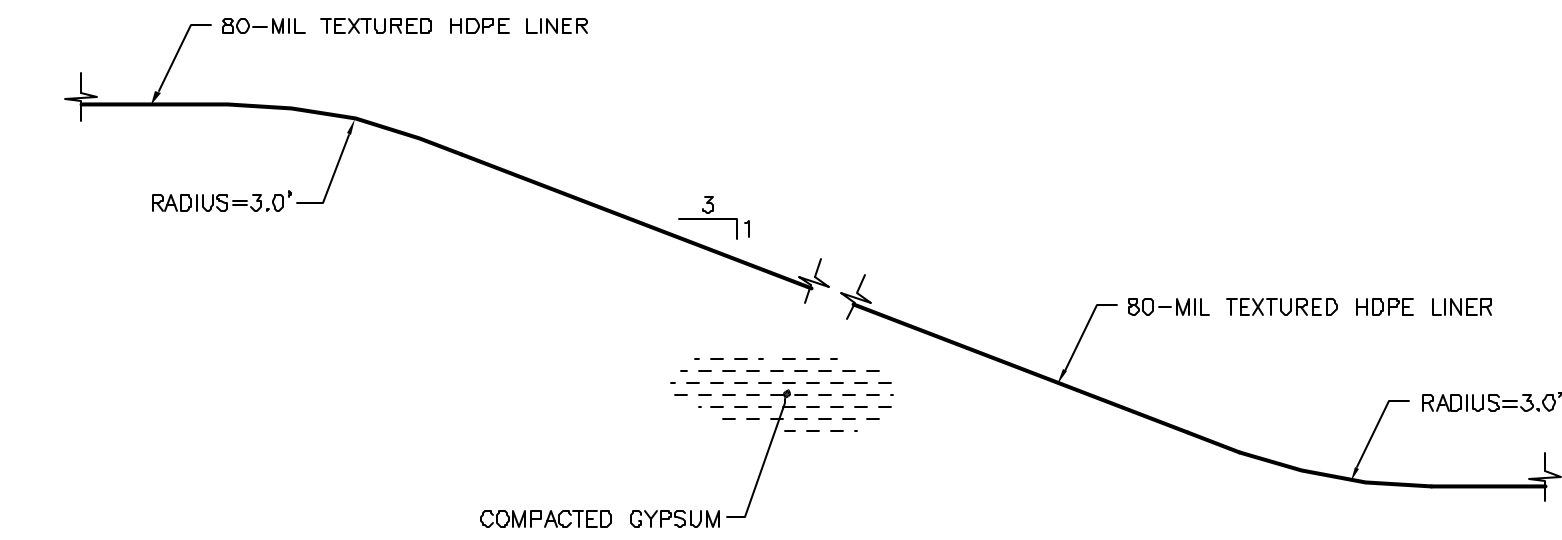
NORTHWEST CORNER LINER DETAILS

DRAWING NO.
L-4



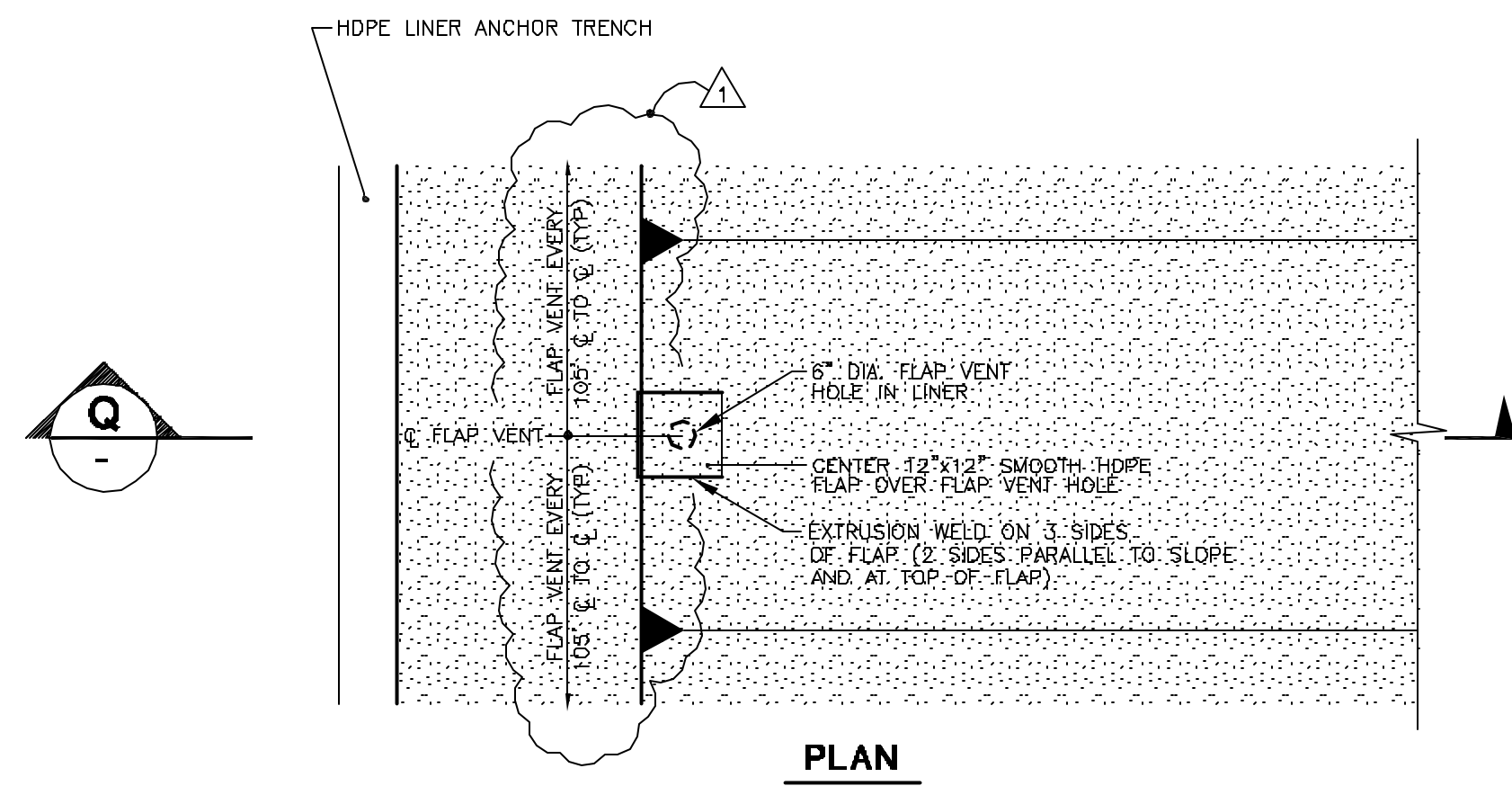
5 FUSION AND EXTRUSION WELDS DETAIL
NOT TO SCALE

C-3
C-4
L-1
L-2



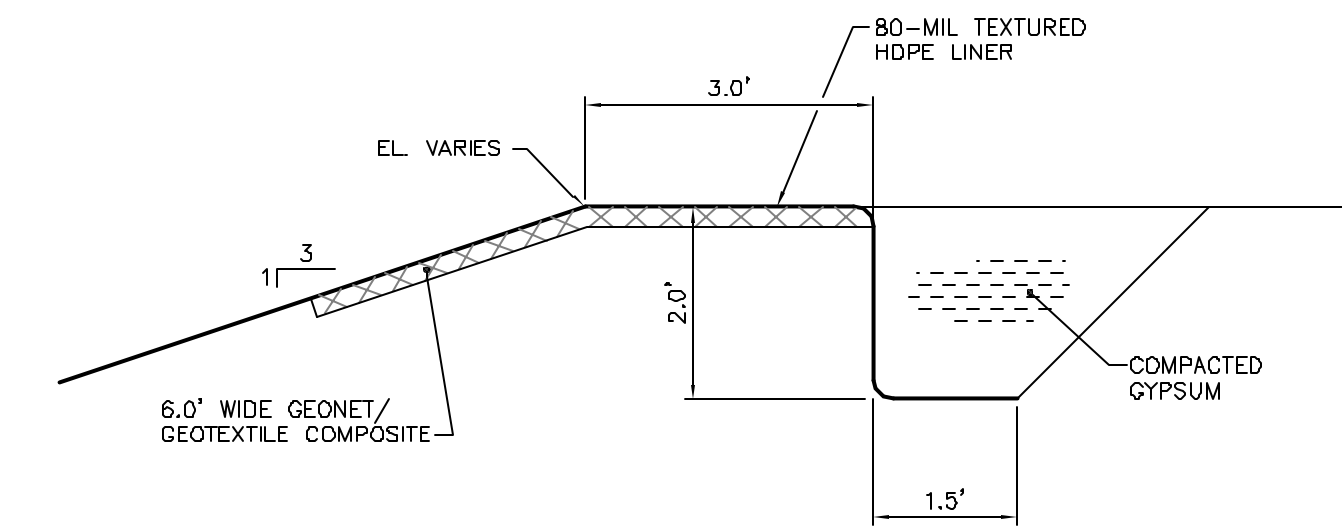
8 TYPICAL TOP AND TOE OF SLOPE LINER CURVATURE DETAIL
NOT TO SCALE

C-3
C-4
C-7
C-8



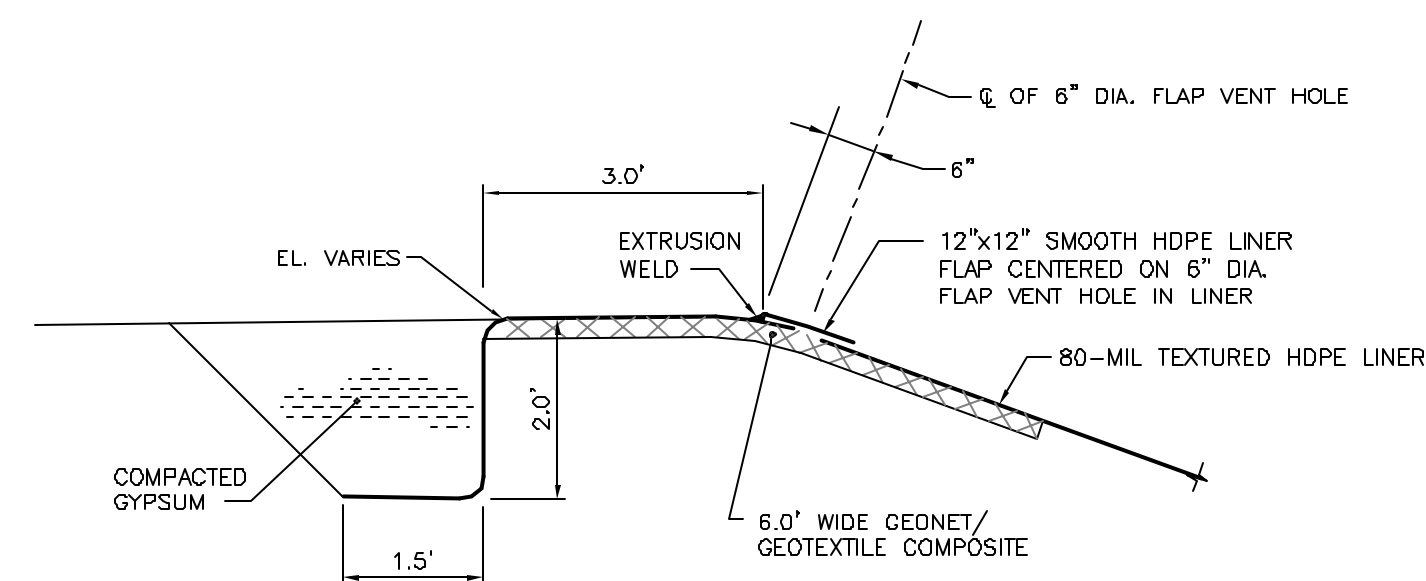
6 FLAP VENT DETAIL
NOT TO SCALE

L-1
L-2

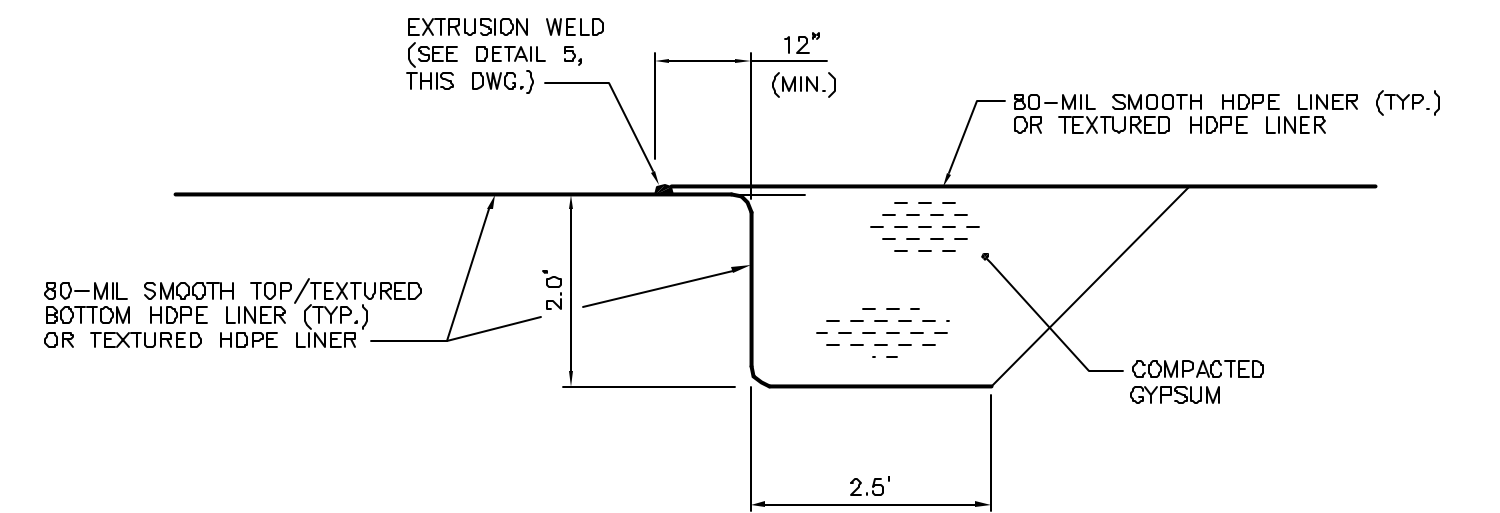


9 DETAIL OF LINER ANCHOR AT TOP OF SLOPE
SCALE 1" = 2'

C-3
C-4
C-7
C-8
L-1
L-2

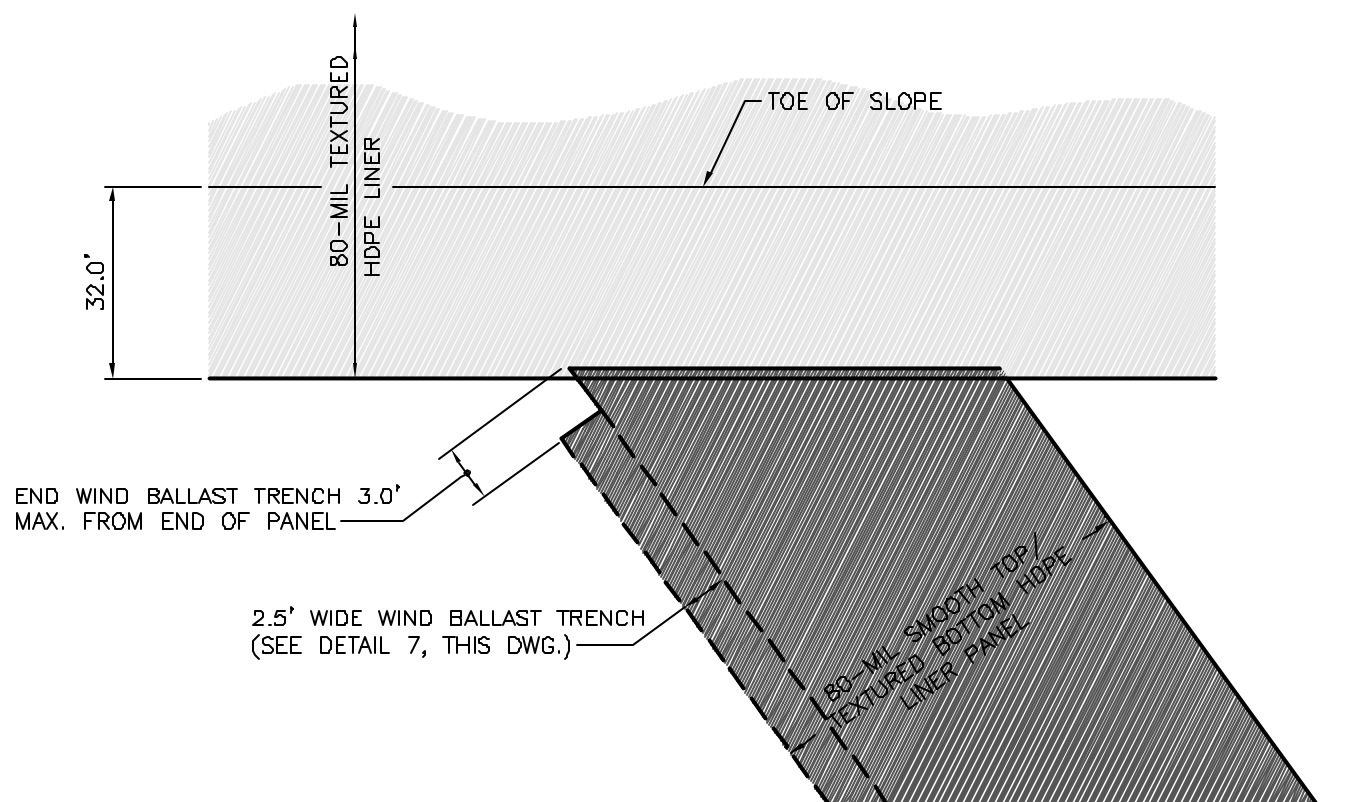


Q SECTION
SCALE 1" = 2'



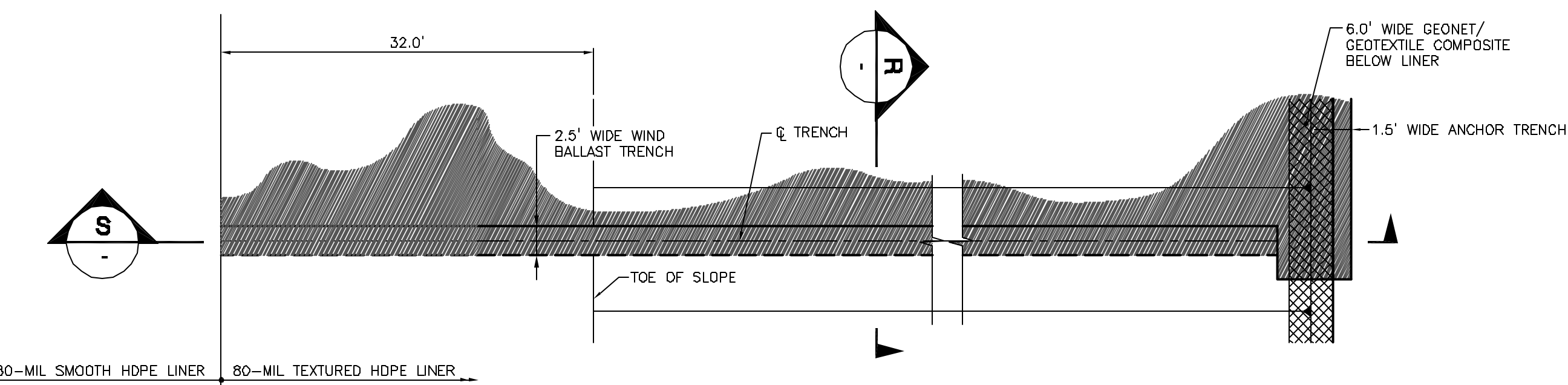
7 BOTTOM WIND BALLAST TRENCH DETAIL
SCALE 1" = 2'

L-1
L-2
L-3



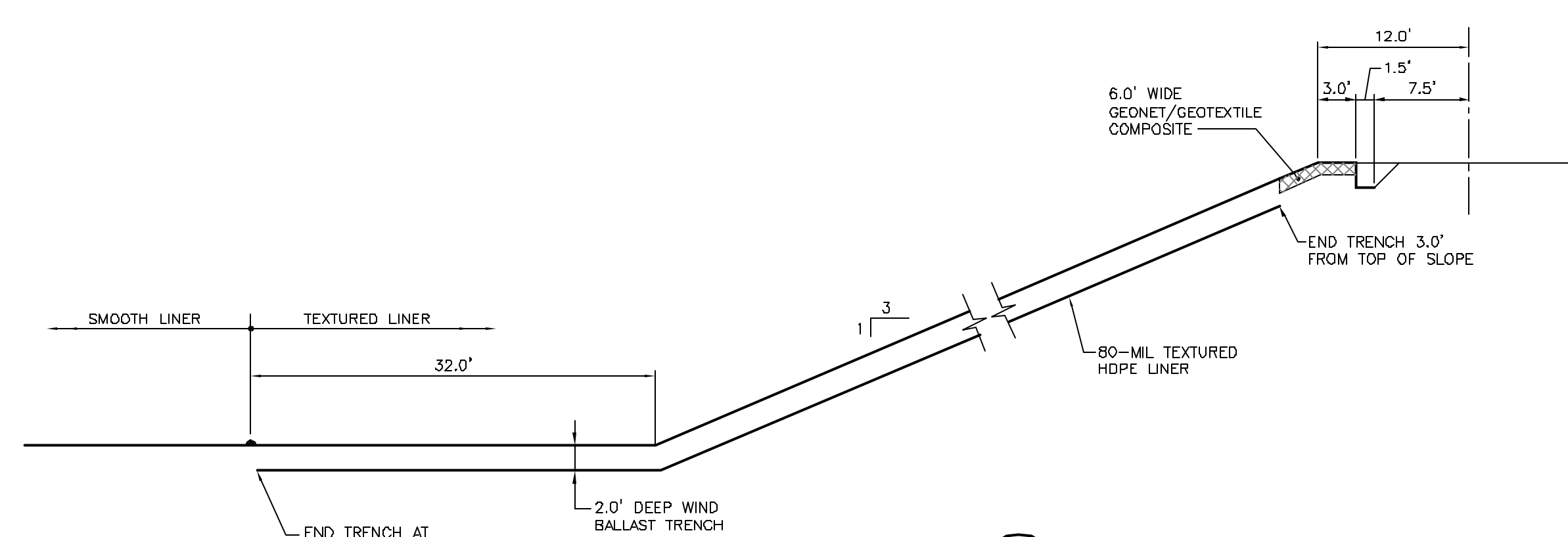
11 BOTTOM WIND BALLAST TRENCH TERMINATION DETAIL
SCALE: 1" = 10'

L-1
L-2

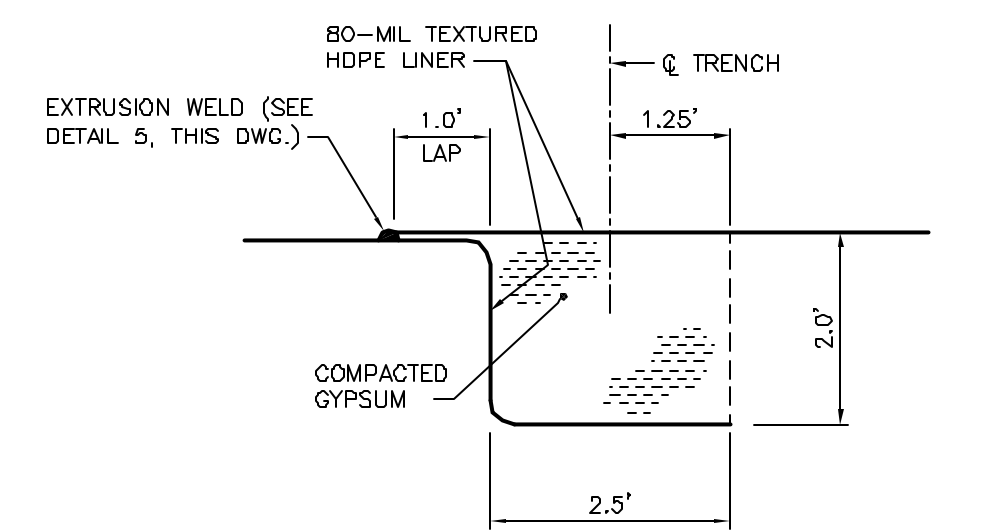


12 SIDE SLOPE WIND BALLAST TRENCH DETAIL
SCALE: 1" = 10'

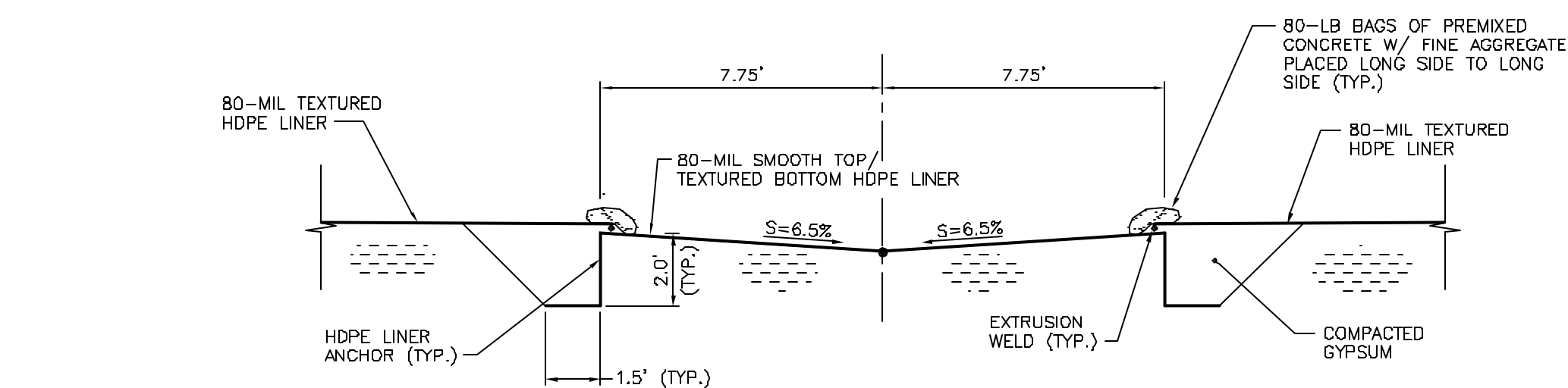
L-1
L-2



S SECTION
SCALE: 1" = 10'

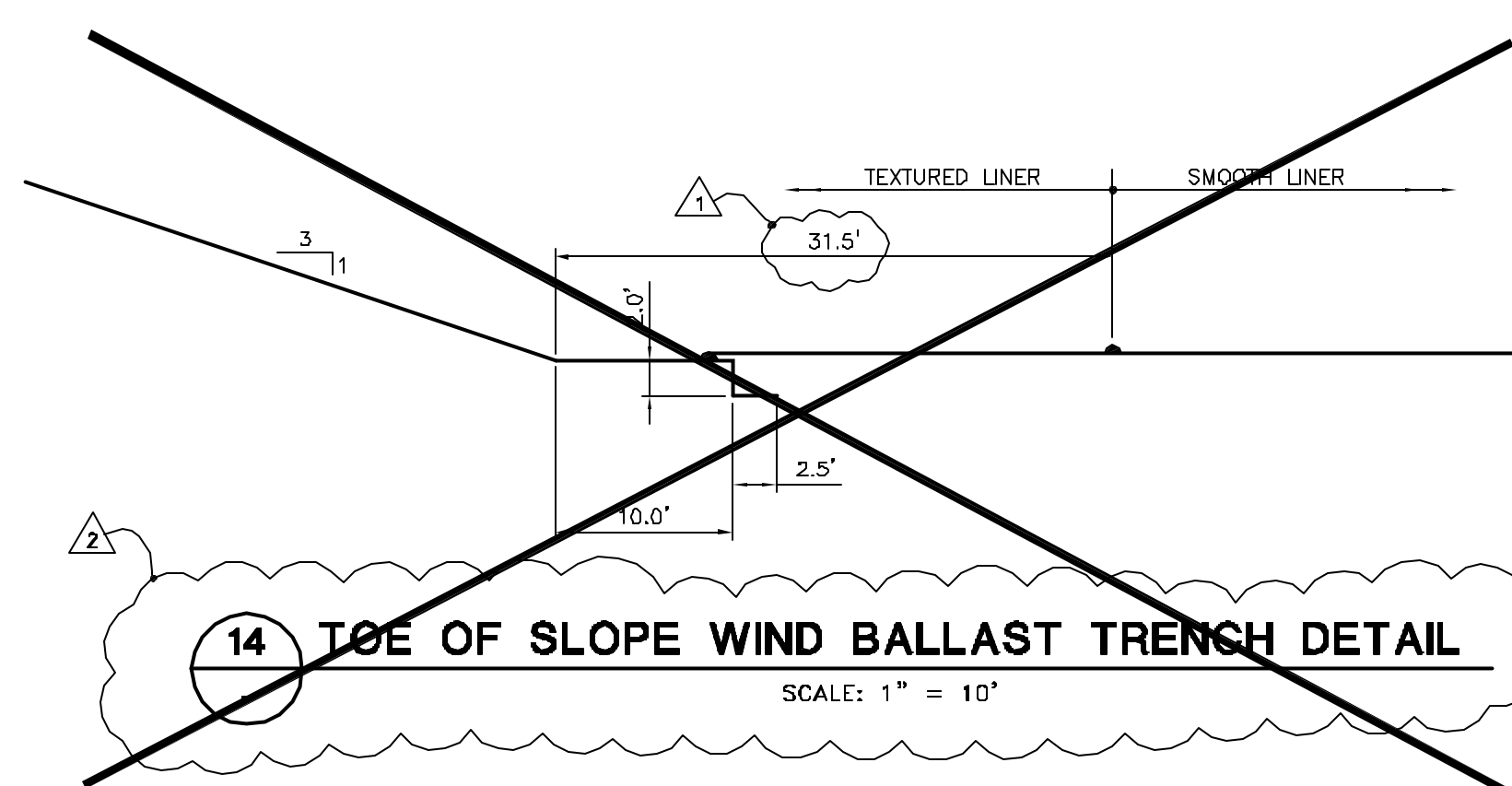


R SECTION
SCALE: 1"=2'



13 HDPE LINER ANCHOR AT WATER DISCHARGE LOCATION
SCALE: 1" = 4'

C-2
C-6
L-1
L-2



14 TOE OF SLOPE WIND BALLAST TRENCH DETAIL
SCALE: 1" = 10'