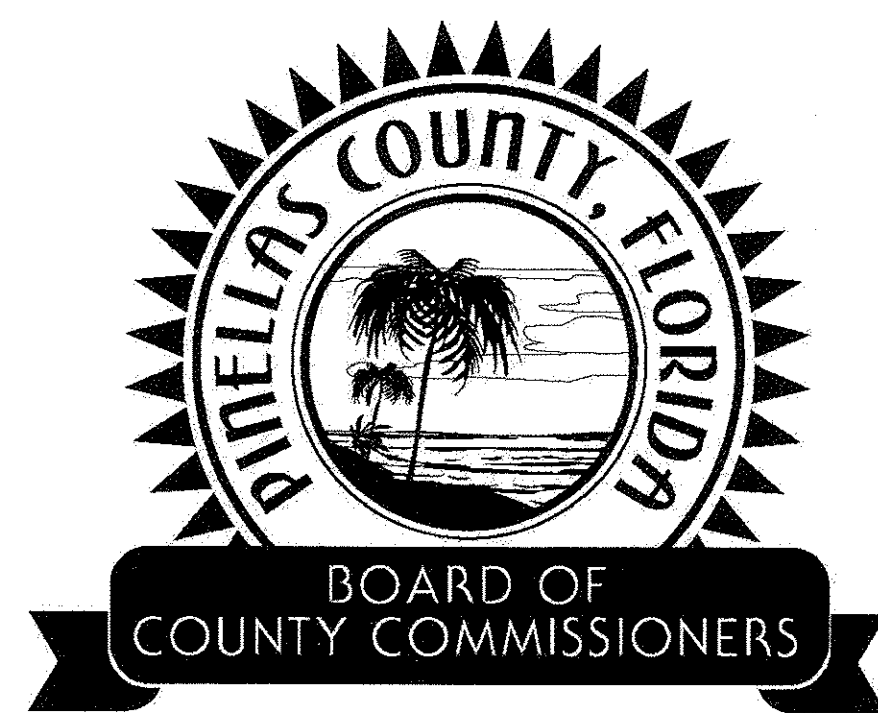


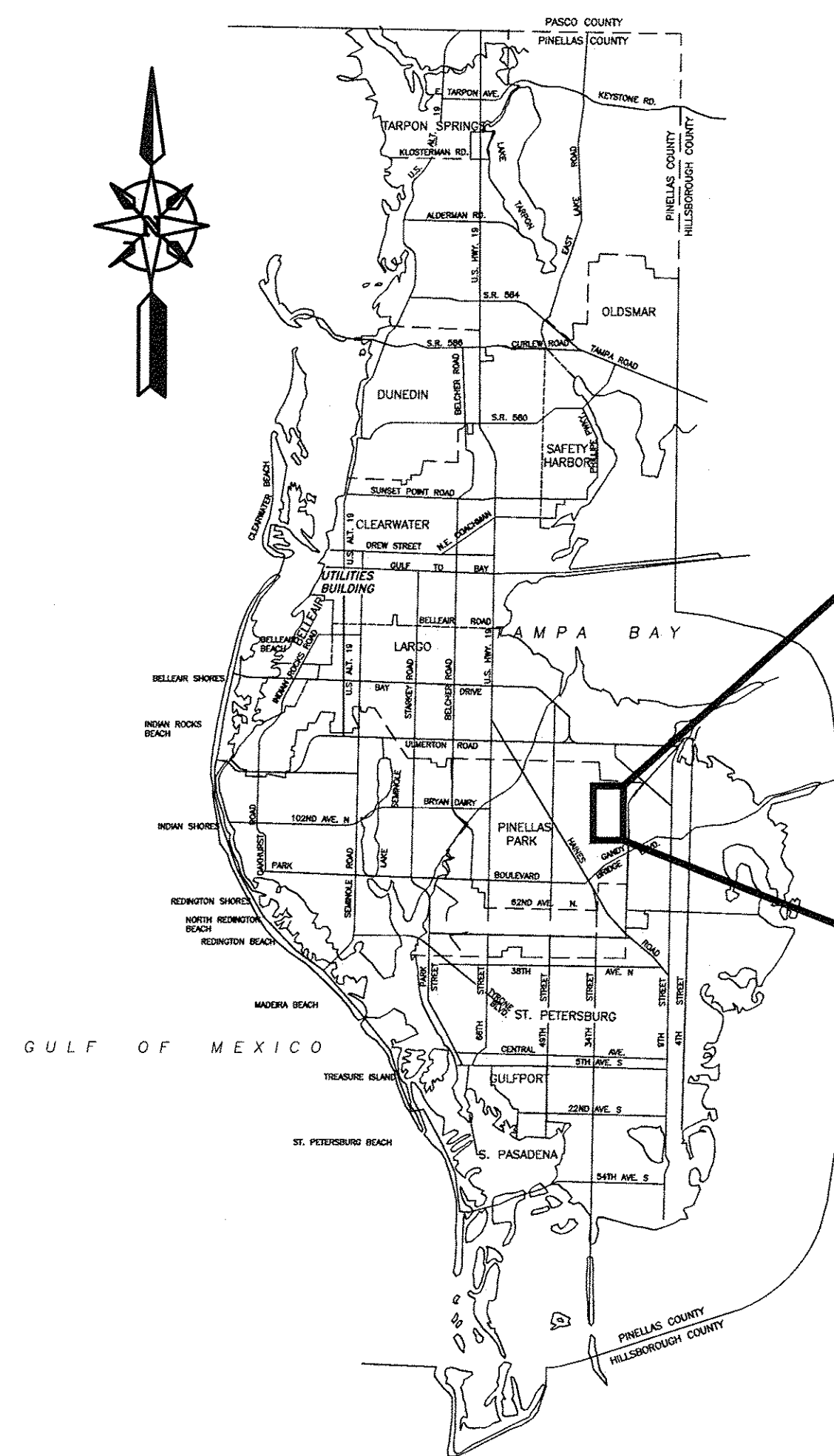
PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE

DIVISION OF SOLID WASTE

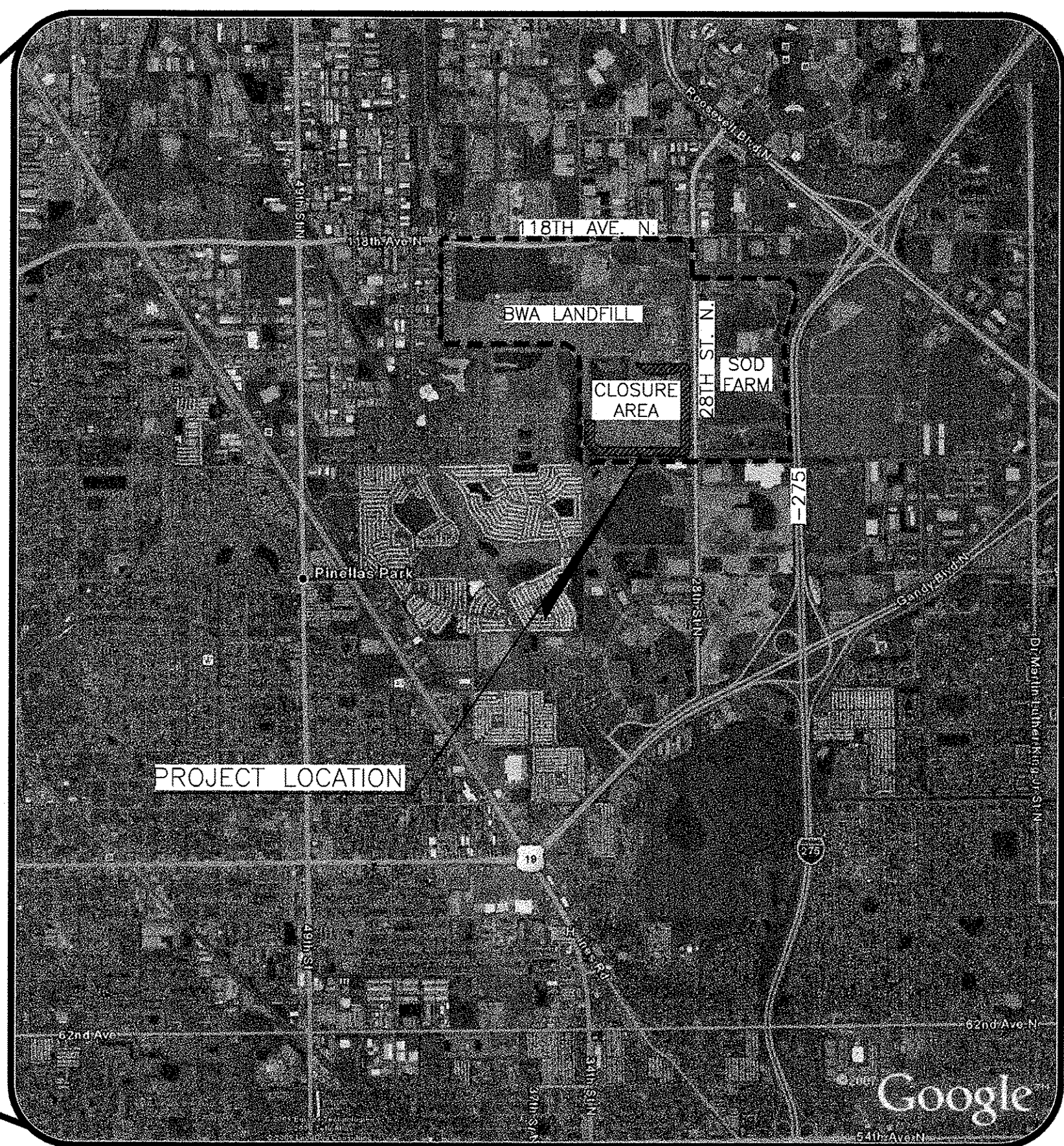
PINELLAS COUNTY, FLORIDA



BOARD OF COUNTY COMMISSIONERS
PROJECT NO. 1792
BID No. xxx-xxxx- (CP) (RM)
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL



LOCATION MAP



SECTION 13, TOWNSHIP 30 SOUTH, RANGE 16 EAST (MAP PAGES 19GN & 19GS)
SOURCE: GOOGLE MAPS 2007

KEY MAP
NOT TO SCALE
JUNE 2014
PROJECT NO. 6018-80153



1715 North Westshore Blvd. Suite 875
Tampa, Florida 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

INDEX OF DRAWINGS

SHEET NO.	TITLE
GENERAL	
	COVER SHEET, INDEX AND LOCATION MAP
G-1	GENERAL NOTES
G-2	SYMBOLS AND LEGEND
CIVIL	
C-1	EXISTING CONDITIONS OVERALL SITE PLAN
C-2	PHASE 1 EXISTING CONDITIONS & CLOSURE LIMITS PLAN
C-3	PROPOSED GRADING AND HORIZONTAL CONTROL PLAN
C-4	SOUTH AND WEST STORMWATER CONTROL PLAN
C-5	SOUTH AND EAST STORMWATER CONTROL PLAN
C-6	NORTH AND EAST STORMWATER CONTROL PLAN
C-7	SOUTH AND WEST LANDFILL GAS CONTROL PLAN
C-8	SOUTH AND EAST LANDFILL GAS CONTROL PLAN
C-9	NORTH AND EAST LANDFILL GAS CONTROL PLAN
C-10	CROSS SECTION PLAN
C-11	CROSS SECTIONS
C-12	CROSS SECTIONS
C-13	CROSS SECTIONS
C-14	CROSS SECTIONS
C-15	CROSS SECTIONS
C-16	CROSS SECTIONS
C-17	FORCE MAIN RELOCATION PLAN
C-18	FORCE MAIN RELOCATION PLAN
DETAILS	
CD-1	FINAL COVER DETAILS
CD-2	FINAL COVER DETAILS
CD-3	STORMWATER CONTROL DETAILS
CD-4	STORMWATER CONTROL DETAILS
CD-4A	CROSS SECTIONS AT ACCESS ROAD CROSSINGS
CD-5	LANDFILL GAS DETAILS
CD-6	MISCELLANEOUS DETAILS
CD-7	FORCEMAIN RELOCATION DETAILS
STRUCTURAL	
S-1	GENERAL NOTES, THRUST COLLAR AND STRUCTURAL DETAILS

1792-CONSTRUCTION PLANS
PREPARED BY:
CDM SMITH
1715 NORTH WESTSHORE BLVD., SUITE 875
TAMPA, FLORIDA 33607
PHONE (813) 281-2900

PROJECT MANAGER:
AAMOD SONAWANE, P.E. NO. 62526

P.C.D.E.I. PROJECT NO. 1792

P.I.D. NO. 1792

LOCATION:
PINELLAS COUNTY CLASS I LANDFILL
BRIDGEWAY ACRES

SUBMITTED BY: No. 74706
NATHAN D. SONAWANE, P.E.
ENGINEER (813) 281-2900

RECOMMENDED BY:

DAVID L. SLONENA, P.G. No. 100
MANAGER

APPROVED BY:

IVAN FERNANDEZ, P.E. No. 39464
INTERIM DIRECTOR

PERMIT SUBMITTAL

Water

Environment

Transportation

Energy

Facilities

Last saved by: SCOTTVC Time: 7/23/2012 10:56:29 AM

PLEASE UPDATE THE PROJECTWISE PATH (SELECT ATTRIBUTES IN PROJECTWISE AND CLICK CHECK BOX)

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GENERAL NOTES

1. ALL ELEVATIONS ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
2. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK.
3. CONTRACTOR SHALL VERIFY ALL UTILITIES AND NOTIFY THE ENGINEER 48 HOURS PRIOR TO DIGGING IN ANY PORTION OF THE SITE. CONTRACTOR MUST CALL SUNSHINE ONE CALL 1-800-432-4770 PRIOR TO DIGGING. *
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT HORIZONTAL AND VERTICAL TRANSITION OF PIPELINES BY DEFLECTION OF PIPE JOINTS USING 75 PERCENT OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER. SHOP DRAWINGS SHALL BE FURNISHED TO THE ENGINEER FOR APPROVAL OF ALL PIPE CONNECTIONS, TRANSITIONS AND SPECIALS PRIOR TO FABRICATION OR DELIVERY TO JOB SITE.
5. THE CONTRACTOR SHALL REPLACE AND/OR RELOCATE ALL DRAINAGE CULVERTS, FENCES, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION.
6. THE INFORMATION PROVIDED IN THESE PLANS AND SPECIFICATIONS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
7. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON FINDING ANY CONFLICTS DURING CONSTRUCTION ON ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
8. THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS ON THE SITE SHALL BE WITHIN THE LIMITS OF CONSTRUCTION OR ON HAUL ROADS SHOWN ON THE DRAWINGS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE APPROPRIATE EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. THESE SHALL BE INSTALLED IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS. CONTRACTOR SHALL PROTECT DRAINAGE INLETS MONITORING WELLS, AND SWALES FROM SILTATION, SEDIMENT AND EROSION RUNOFF.
10. NO REPRESENTATION IS MADE REGARDING BALANCED EARTHWORK. ANY EXCESS MATERIAL, OR MATERIAL NOT SUITABLE FOR USE AS BACKFILL, SHALL BE PLACED IN PERMANENT STOCKPILE AREA DESIGNATED BY THE OWNER AND STABILIZED IN ACCORDANCE WITH THE SPECIFICATION. NO MATERIAL SHALL BE REMOVED FROM SITE WITHOUT APPROVAL IN WRITING FROM THE OWNER.
11. FINISHED GRADE REFERS TO GRADING AFTER SODDING OR OTHER SURFACE TREATMENT.
12. LIMITS OF SLURRY WALL ARE BASED ON A SURVEY TITLED BOUNDARY SURVEY RESOURCE RECOVERY FACILITY/BRIDGEWAY ACRES' BY GEORGE F. YOUNG, MAY 2009.
13. DRAWINGS ARE BASED ON i) TOPOGRAPHIC SURVEY BRIDGEWAY ACRES LANDFILL CONDUCTED ON OCTOBER 14, 2011 BY PICKETT AND ASSOCIATES, INC. ii) TOPOGRAPHIC SURVEY BRIDGEWAY ACRES LANDFILL CONDUCTED ON JANUARY 08, 2011 BY PICKETT AND ASSOCIATES, INC. iii) BRIDGEWAY ACRES LANDFILL GRADIENT CONTROL SYSTEM CONSTRUCTION DRAWINGS, BY SCS ENGINEERS, MARCH 2011 (ISSUED FOR BID) THE AREA WITHIN CLOSURE LIMITS IS BASED ON i) ABOVE, THE OVERALL FACILITY AREA AND LAYOUT IS BASED ON ii) ABOVE, AND THE EXISTING/PROPOSED DITCH GRADES OF THE GRADIENT CONTROL CHANNEL FOR THE ACCESS ROAD CROSSINGS ARE BASED ON iii) ABOVE. CONTRACTOR SHALL VERIFY GRADES PRIOR TO CONSTRUCTION.
14. NO OPEN FIRES OR BURNING WILL BE PERMITTED.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER ACTIVITIES OR LACK THEREOF FOR MAINTAINING STRUCTURAL AND GEOTECHNICAL STABILITY OF THE WORK AREAS DURING CONSTRUCTION. POSITIVE DRAINAGE SHALL BE MAINTAINED DURING CONSTRUCTION.
16. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON INFORMATION AVAILABLE DURING PREPARATION OF THESE DRAWINGS. ACTUAL GROUND PROFILES AT THE TIME OF CONSTRUCTION MAY VARY FROM THE CONTOURS SHOWN. ENGINEER/ OWNER ARE NOT RESPONSIBLE FOR ANY CLAIMS, DAMAGES OR LIABILITY ARISING OUT OF THE USE OF THE EXISTING CONTOURS SHOWN. THE CONTRACTOR SHALL PERFORM A TOPOGRAPHY SURVEY BEFORE BEGINNING WORK.
17. CONTRACTOR IS ADVISED THAT LANDFILL GAS IS PRESENT AT THE SITE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SAFETY TRAINING AND EQUIPMENT FOR THE WORK. NO SMOKING IS ALLOWED ON THE JOB SITE.
18. ATTENTION IS DIRECTED TO THE FACT THAT THE PROJECT SITE IS AN ACTIVE CLASS I LANDFILL. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND ADHERING TO A PROJECT SPECIFIC HEALTH AND SAFETY PLAN. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
19. THE EXISTING FACILITY WILL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL COORDINATE PROJECT RELATED ACTIVITIES WITHIN THE FACILITY WITH THE OWNER AND OTHER CONTRACTORS SO THAT THE FACILITY OPERATIONS AND ANY CONSTRUCTION ACTIVITIES BY OTHERS ARE NOT IMPACTED.
20. CONTRACTOR SHALL VERIFY THE ACCURACY OF BENCHMARKS AND CONTROL DATA PROVIDED ON THE DRAWINGS. PRIOR TO INITIATING CONSTRUCTION, CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE FOUND.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ANY TEMPORARY STORMWATER CONTROL MEASURES DURING CONSTRUCTION. STORMWATER IMPACTED BY THE PROJECT SHALL BE MANAGED BY DIRECTING IT TO THE PERIMETER DITCH AROUND THE LANDFILL OR AS DIRECTED BY ENGINEER.
22. CONTRACTOR IS REQUIRED TO SPRAY WATER OR ADOPT ALTERNATIVE MEASURES APPROVED BY THE ENGINEER FOR DUST CONTROL DURING CONSTRUCTION.
23. CONTRACTOR SHALL RESTORE ALL PROJECT AREAS OUTSIDE THE FINAL COVER LINER LIMITS TO PRE-PROJECT CONDITIONS. SUCH AREAS INCLUDE BUT ARE NOT LIMITED TO ACCESS AND HAUL ROADS/ROUTES, STAGING AND STOCKPILING AREAS, ETC.
24. CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING FENCE ON THE ENTIRE EAST SIDE CLOSURE AREA.
25. ALL WATER ONSITE IS CONSIDERED LANDFILL LEACHATE AND SHALL NOT BE DISCHARGED OFFSITE. ALL WATER SHALL BE DIRECTED TO CANALS WHICH LEAD TO POND A.

26. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING FORCEMAIN SYSTEM MUST BE KEPT IN OPERATION AT ALL TIMES, WHERE CONNECTIONS ARE MADE TO EXISTING MAINS OR OTHER SHUTDOWNS ARE NECESSARY, PERMISSION MUST BE OBTAINED AND ARRANGEMENTS MUST BE MADE WITH THE UTILITIES DEPARTMENT FOR REMOVING FROM SERVICE THOSE MAINS THAT WILL BE AFFECTED. SHUTDOWNS MUST BE HELD TO A MINIMUM IN BOTH NUMBER AND DURATION. BYPASS PUMPING AND HAULING OPERATIONS MAY BE REQUIRED TO INTERRUPT SERVICE.
27. NO VALVE OR OTHER CONTROL DEVICE ON THE EXISTING FORCEMAIN SYSTEM SHALL BE OPERATED BY THE CONTRACTOR WITHOUT FIRST OBTAINING APPROVAL FROM THE UTILITIES DEPARTMENT. THE CONTRACTOR SHALL, AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE, NOTIFY THE COUNTY OF THE STARTING TIME AND DURATION OF SUCH INTERRUPTION.
28. CONTRACTOR SHALL PROTECT THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.
29. CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION ACTIVITIES THAT MAY DAMAGE THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.

REV. NO.	DATE	DRWN	CHKD	REMARKS	

DESIGNED BY: _____ A. SONAWANE
DRAWN BY: _____ D. MOHLE
SHEET CHK'D BY: _____ J. McHUGH
CROSS CHK'D BY: _____ J. LADNER
APPROVED BY: _____ N. SCHMAUS
DATE: _____ JUNE 2014

CDM Smith

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Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

GENERAL NOTES

NATHAN DANIEL SCHMAUS
 LICENSE
 No. 74706
 Nathan Schmaus
 STATE OF KENTUCKY
 DATE: 6-9-2018
 SCHMAUS, NATHAN
 P.E. NO. 74706

PROJECT NO.	6018-80153
FILE NAME:	G001NXS

SHEET NO.

G-1

PERMIT SUBMITTAL

BOUNDARY AND MARKER SYMBOLS

SYMBOL	FEATURE
	WIRE FENCE
	WOOD FENCE
	CHAIN LINK FENCE
	GUARD RAIL
	STONE WALL
	STONE RETAINING WALL
	PROPERTY LINE
	RIGHT OF WAY (R/W)
	SLURRY WALL
	100' SETBACK LINE
	GRADIENT CONTROL CHANNEL
	IRON PIPE BOUNDARY MARKER
	IRON ROD BOUNDARY MARKER
	CONCRETE MONUMENT BOUNDARY MARKER
	STONE MONUMENT BOUNDARY MARKER
	EXISTING PIEZOMETER
	EXISTING PRODUCTION WELL
	PROPOSED PRODUCTION WELL
	EXISTING MONITORING WELL
	PROPOSED MONITORING WELL
	TURNING POINT
	TRIANGULATION POINT
	BORING
	SOUNDING
	BENCHMARK
	CONTROL POINT

TRAVELED WAY SYMBOLS

SYMBOL	FEATURE
	UNIMPROVED DIRT ROAD OR GRAVELED ROADWAY
	PAVED ROADWAY, SIZE AND TYPE
	PAVED ROADWAY W/ CURB, SIZE AND TYPE
	BOX CULVERT
	CULVERT, PIPE SIZES AND TYPE
	SIGNS

LANDSCAPE AND DRAINAGE SYMBOLS

SYMBOL	FEATURE
	BUILDING OR STRUCTURE FOOTPRINT
	TREE, SIZE & TYPE
	HEDGE
	EDGE OF WOODS
	EDGE OF WETLANDS
	EDGE OF SHORELINE
	POND
	DIRECTION OF FLOW FOR STORMWATER
	DIRECTION OF FLOW FOR SWALE
	LINED CANAL
	OUTFALL STRUCTURE
	TOE DRAIN

SURFACE ELEVATION SYMBOLS

SYMBOL	FEATURE
	DEPRESSION CONTOUR
	EXISTING INTERMEDIATE CONTOUR LINE AND ELEVATION DESIGNATION
	EXISTING INDEX CONTOUR LINE AND ELEVATION DESIGNATION
	PROPOSED INTERMEDIATE CONTOUR LINE AND ELEVATION DESIGNATION
	PROPOSED INDEX CONTOUR LINE AND ELEVATION DESIGNATION
	SPOT ELEVATION
	EXISTING EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)
	PROPOSED EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)

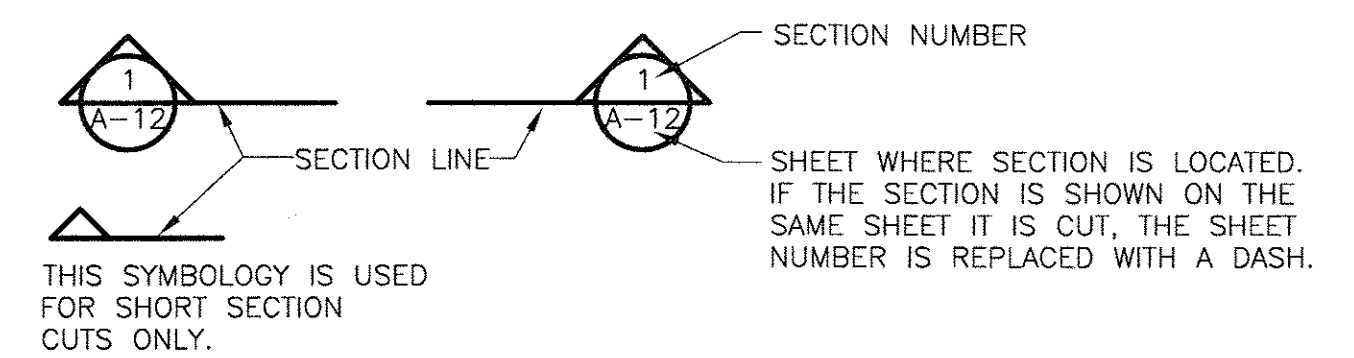
UNDERGROUND AND OVERHEAD UTILITY SYMBOLS

SYMBOL	FEATURE
	SANITARY SEWER AND MANHOLE
	STORM DRAIN, MANHOLE, AND CATCH BASIN
	FORCE MAIN
	PROCESS PIPELINE CALLOUT
	PIPE MATERIAL (OPTIONAL)
	ABBREVIATED PROCESS LINE DESCRIPTION (SEE TABLE 8-1 FOR LISTING)
	PIPE DIAMETER
	ELECTRICAL CABLE/DUCT
	OVERHEAD ELECTRIC
	TELEPHONE
	OVERHEAD TELEPHONE SIGNAL LINE
	LIGHT POLE
	POWER POLE W/ GUY
	WATER MAIN
	PASSIVE GAS VENT

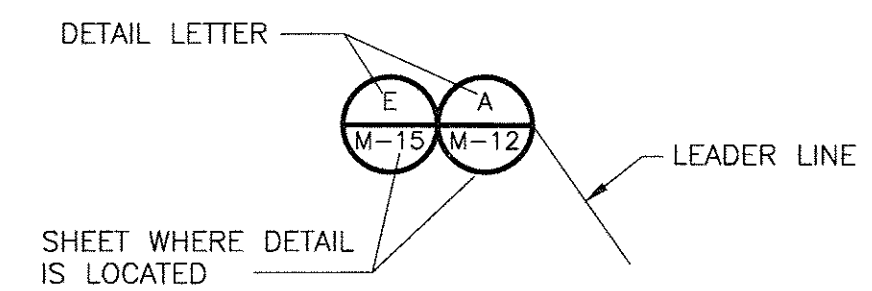
LANDFILL COMPONENT SYMBOLS

SYMBOL	FEATURE
	SOD
	6" TOP SOIL (VEGETATIVE LAYER)
	18" PROTECTIVE SOIL LAYER
	COMPOSITE DRAINAGE NET (CDN) FOR DRAINAGE
	40 mil TEXTURED (BOTH SIDES) LLDPE GEOMEMBRANE
	CDN FOR GAS VENTING
	6" FINAL COVER FOUNDATION LAYER
	18" INTERMEDIATE COVER LAYER
	WASTE
	LIMIT OF CLOSURE
	GRAVEL OR RIVER ROCK
	FABRIC FORMED CONCRETE RIPRAP

SECTION CUT SYMBOLS

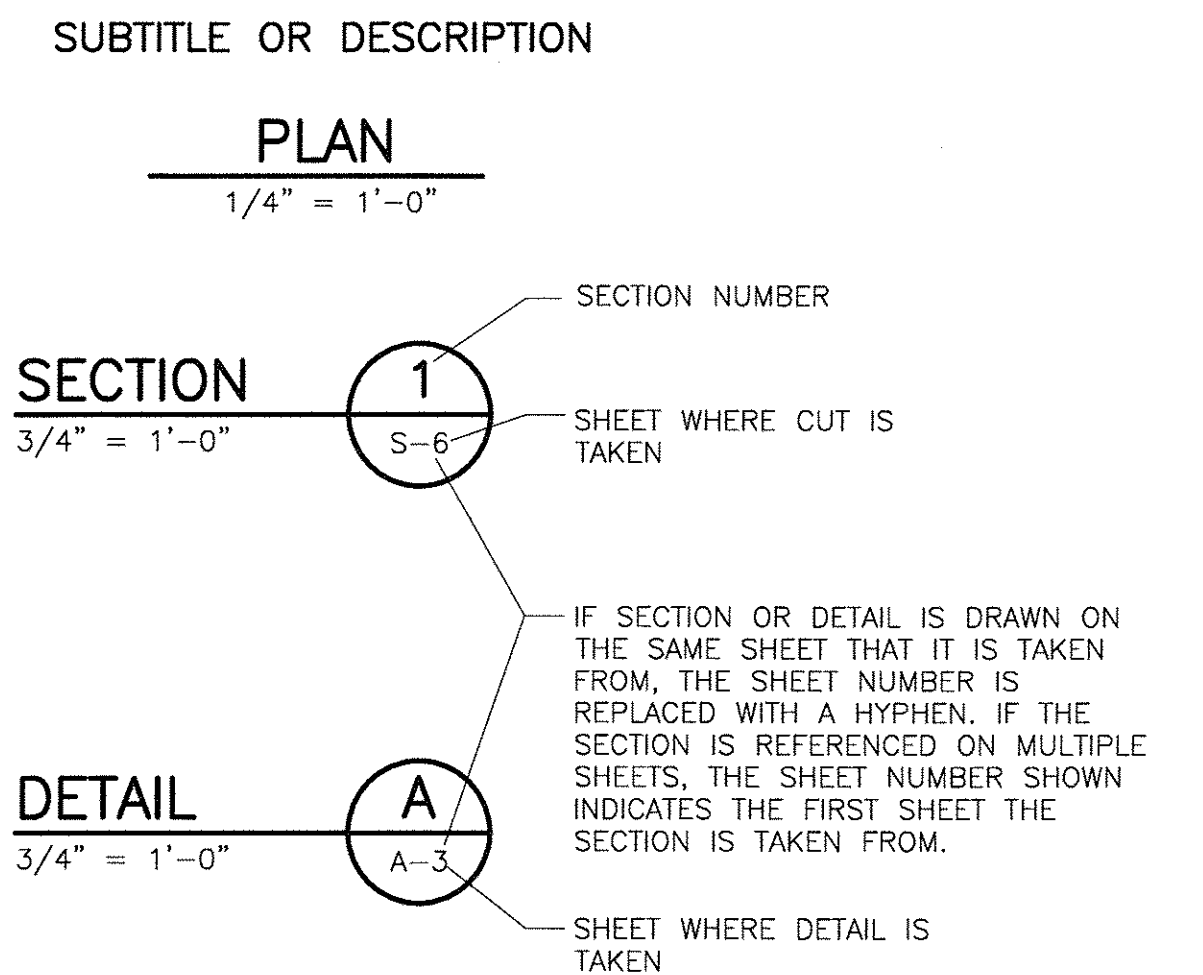


DETAIL CALL OUT SYMBOLS



IF MULTIPLE DETAILS REFER TO THE SAME AREA OF THE DRAWING, THE BUBBLES ARE STACKED SIDE BY SIDE.

DRAWING, SECTION AND DETAIL TITLES



SURVEYORS SYMBOLS

R/W	=	RIGHT-OF-WAY
P.C.	=	POINT OF CURVATURE
P.T.	=	POINT OF TANGENCY
P.I.	=	POINT OF INTERSECTION
x18.5	=	SPOT ELEVATION
- 20 -	=	CONTOUR ELEVATION
	=	STANDING WATER
- x-x-x -	=	FENCE
- . . . -	=	GUARD RAIL
CONC.	=	CONCRETE
PVMNT.	=	ASPHALT PAVEMENT
	=	EDGE OF PAVEMENT
	=	EDGE OF DIRT ROAD

CDM Smith

1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

SYMBOLS AND LEGEND

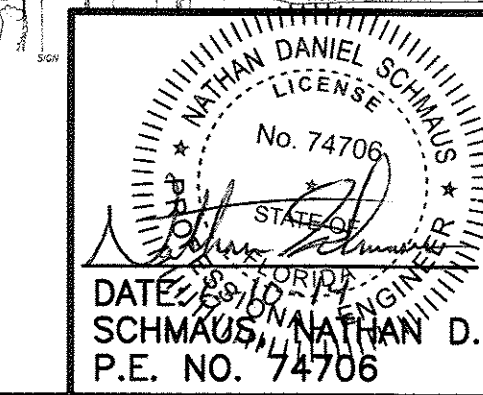
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P.E. NO. 74706

PROJECT NO. 6018-80153
FILE NAME: G002SYMB

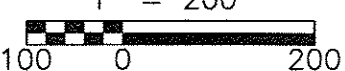
SHEET NO.

G-2

PERMIT SUBMITTAL



<div style="text-align: center;"> <h1>EXISTING CONDITIONS OVERALL SITE PLAN</h1> </div>	P.E. NO.: 74708
	PROJECT NO.: 6018-80153 FILE NAME: C001STP1
	SHEET NO.: <div style="text-align: center; font-size: 24pt;">C-1</div>



NATHAN DANIEL SCHMAUS
 LICENSE
 No. 74706
 STATE OF CALIF.
 DATE: 8/25/2011
 SCHMAUS, NATHAN D.
 P.E. NO. 74706

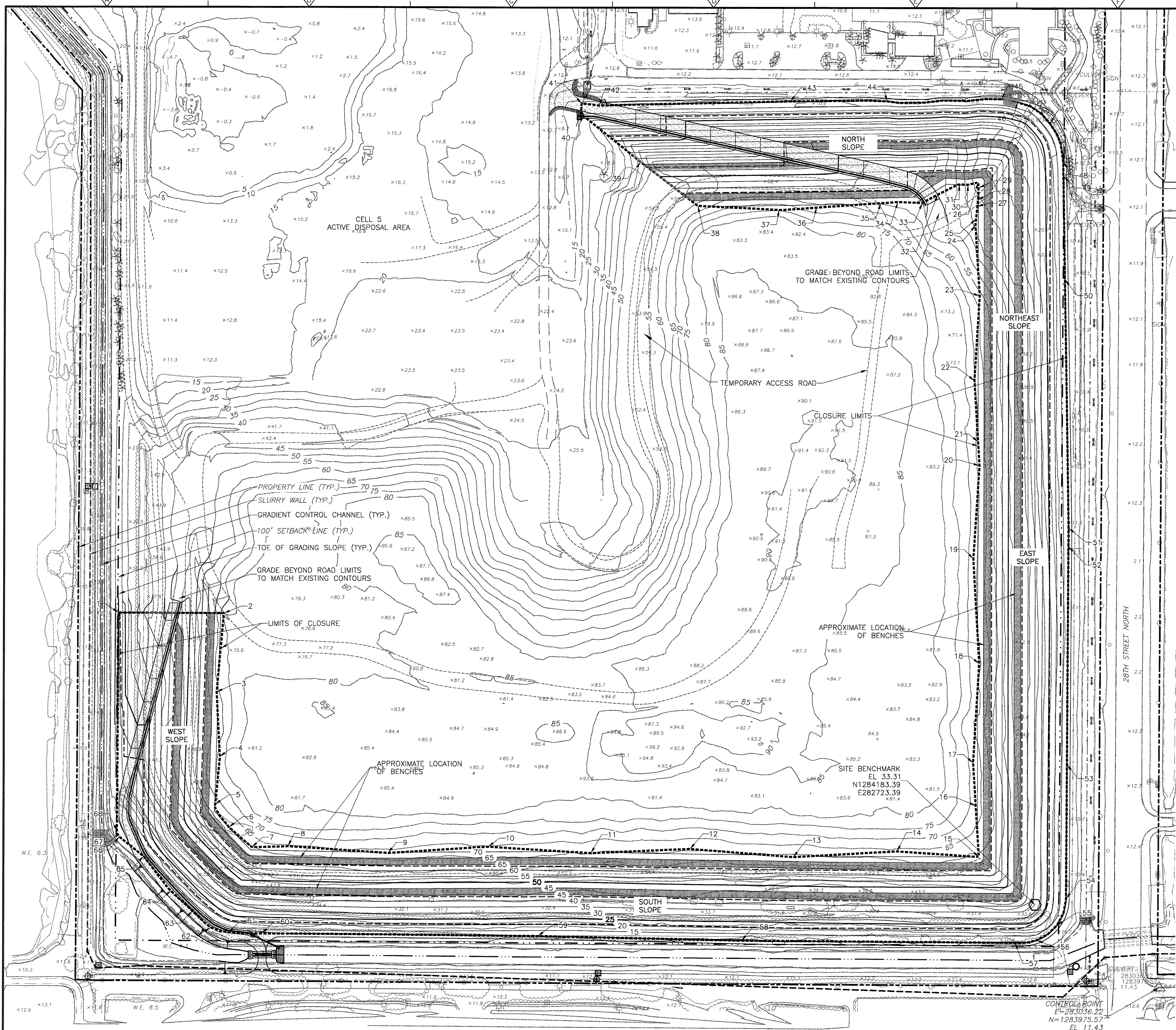
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 FILE NAME: C002STPL

SHEET NO.

C-2

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CLOSURE AREA BOUNDARY POINTS TABLE

POINT TABLE		
POINT NO.	NORTHING	EASTING
1	1284914.97	280410.82
2	1284913.59	280676.71
3	1284715.10	280658.85
4	1284552.94	280667.34
5	1284433.24	280655.87
6	1284375.80	280690.74
7	1284325.47	280748.71
8	1284328.02	280839.69
9	1284311.23	281092.16
10	1284328.03	281344.86
11	1284312.11	281603.25
12	1284323.02	281853.14
13	1284303.00	282113.21
14	1284317.66	282375.13
15	1284303.93	282581.24
16	1284433.28	282573.09
17	1284541.15	282566.29
18	1284790.10	282581.04
19	1285053.02	282565.78
20	1285287.10	282580.60
21	1285348.35	282576.79
22	1285501.79	282567.23
23	1285715.63	282580.05
24	1285892.96	282568.91
25	1285908.85	282570.19
26	1286001.04	282575.53
27	1285941.09	282572.79
28	1285957.12	282574.08
29	1285987.20	282576.50
30	1285995.13	282549.69
31	1285995.48	282527.49
32	1285969.74	282473.31
33	1285949.07	282434.46
34	1285951.32	282372.96

POINT TABLE		
POINT NO.	NORTHING	EASTING
35	1285948.39	282330.11
36	1285937.59	282168.05
37	1285931.48	282073.60
38	1285940.89	281868.28
39	1286051.11	281724.45
40	1286172.19	281575.70
41	1286198.76	281574.56
42	1286193.20	281619.70
43	1286204.41	282101.23
44	1286204.95	282345.35
45	1286210.84	282634.10
46	1286203.38	282674.46
47	1286149.40	282756.33
48	1286053.82	282789.83
49	1286016.82	282790.41
50	1285757.36	282794.88
51	1285130.40	282805.64
52	1285084.45	282805.43
53	1284536.92	282802.92
54	1284199.16	282801.36
55	1284132.18	282778.77
56	1284094.57	282728.16
57	1284087.71	282673.75
58	1284092.14	281983.66
59	1284102.95	281470.37
60	1284108.25	280773.87
61	1284109.15	280690.12
62	1284123.26	280645.64
63	1284164.54	280599.12
64	1284215.33	280544.63
65	1284302.41	280475.51
66	1284352.35	280413.70
67	1284358.33	280409.57
68	1284365.79	280408.08

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. MCHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

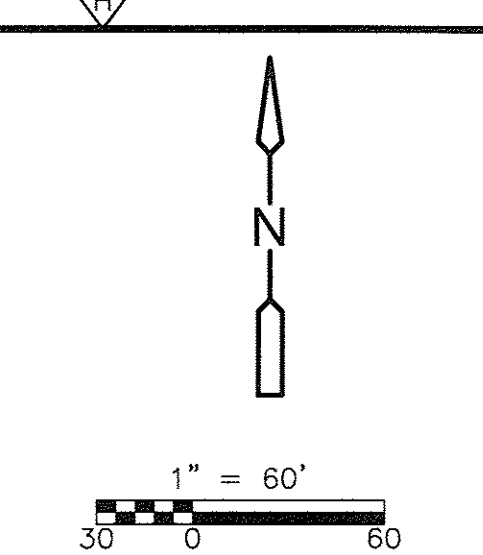
CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020


PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792


GRADING AND HORIZONTAL CONTROL
PLAN
1" = 120'

PROPOSED GRADING AND
HORIZONTAL CONTROL PLAN

PROFESSIONAL SEAL
NATHAN DANIEL SCHMAUS
LICENSE No. 74708
DATE: 6/10/14
NATHAN D. SCHMAUS
P.E. NO. 74708
PROJECT NO. 6018-80153
FILE NAME: C003STPL
SHEET NO.
C-3
PERMIT SUBMITTAL

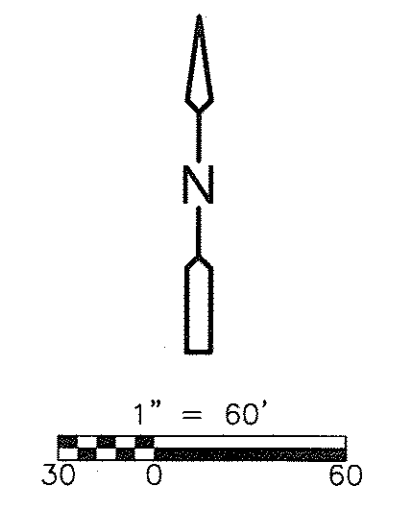



 DATE: 8-1-2008
 SCHMAUS, NATHAN D.
 P.E. NO. 74706

				DESIGNED BY: <u>A. SONAWANE</u>	 1715 North Westshore Blvd., Suite 875 Tampa, FL 33607 Tel: (813) 281-2900 FL COA No. EB-0000020	PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE		SOUTH AND WEST STORMWATER CONTROL PLAN		PROJECT NO. 6018-80153
				DRAWN BY: <u>D. MOHLE</u>		DIVISION OF SOLID WASTE				FILE NAME: C004STPL
				SHEET CHK'D BY: <u>J. McHUGH</u>		SIDE SLOPE CLOSURE - BRIDGEWAY ACRES				SHEET NO.
				CROSS CHK'D BY: <u>J. LADNER</u>		CLASS I LANDFILL				C-4
				APPROVED BY: <u>N. SCHMAUS</u>		PROJECT NO. 1792				
REV. NO.	DATE	DRWN	CHKD	REMARKS						

PERMIT SUBMITTAL

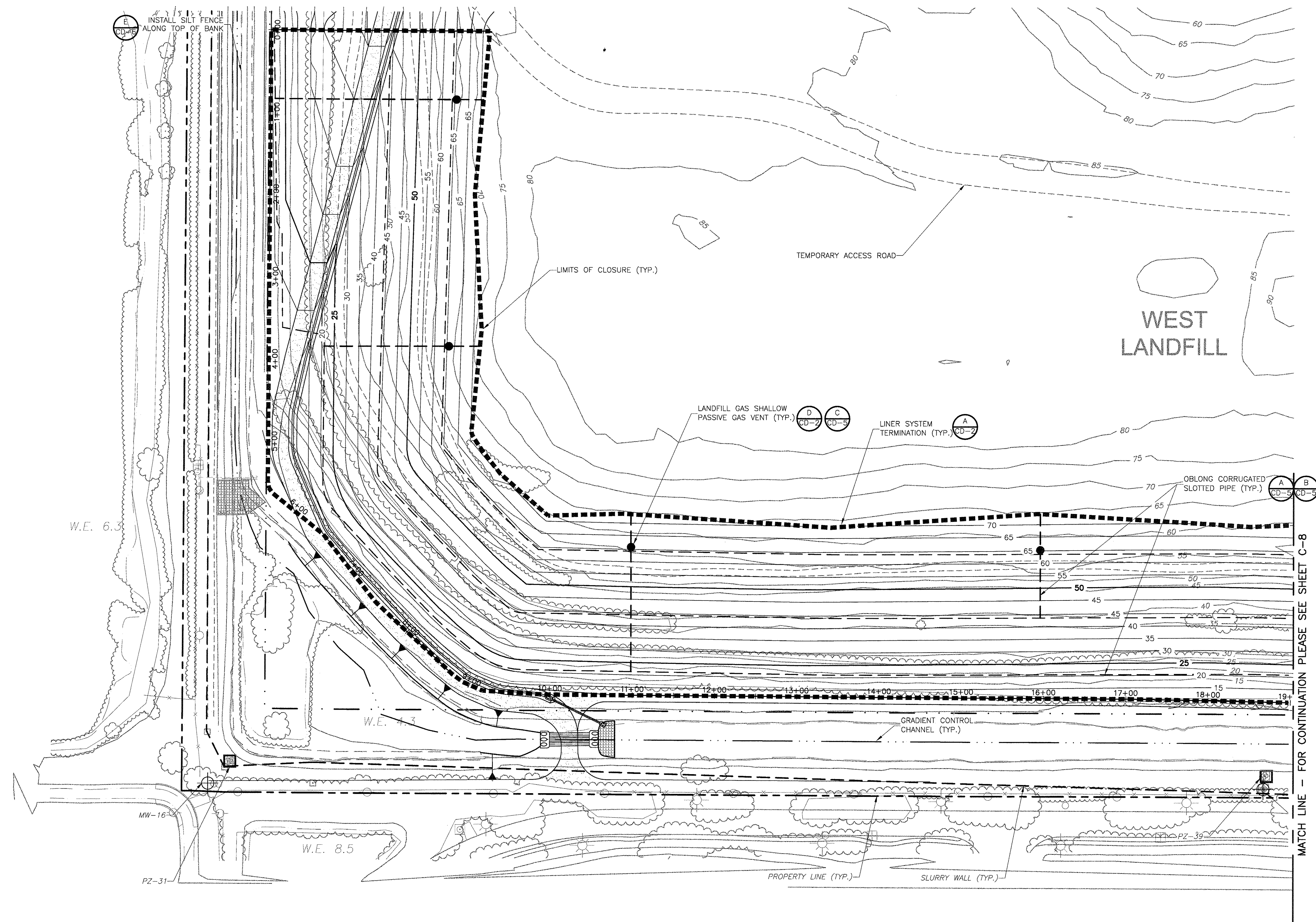
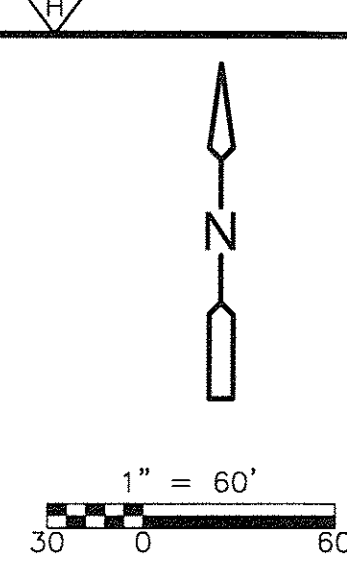
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<p style="text-align: center;">SOUTH AND EAST STORMWATER CONTROL PLAN</p>	<p>PROJECT NO. 6018-80153</p> <p>FILE NAME: C005STP1</p>
	<p>SHEET NO.</p> <p style="text-align: center;">C-5</p>

PROJECT NO.	6018-80153
FILE NAME:	C005STPL
SHEET NO.	
C-5	

PERMIT SUBMITTAL



MATCH LINE - FOR CONTINUATION PLEASE SEE SHEET C-8

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

SOUTH AND WEST LANDFILL
GAS CONTROL PLAN

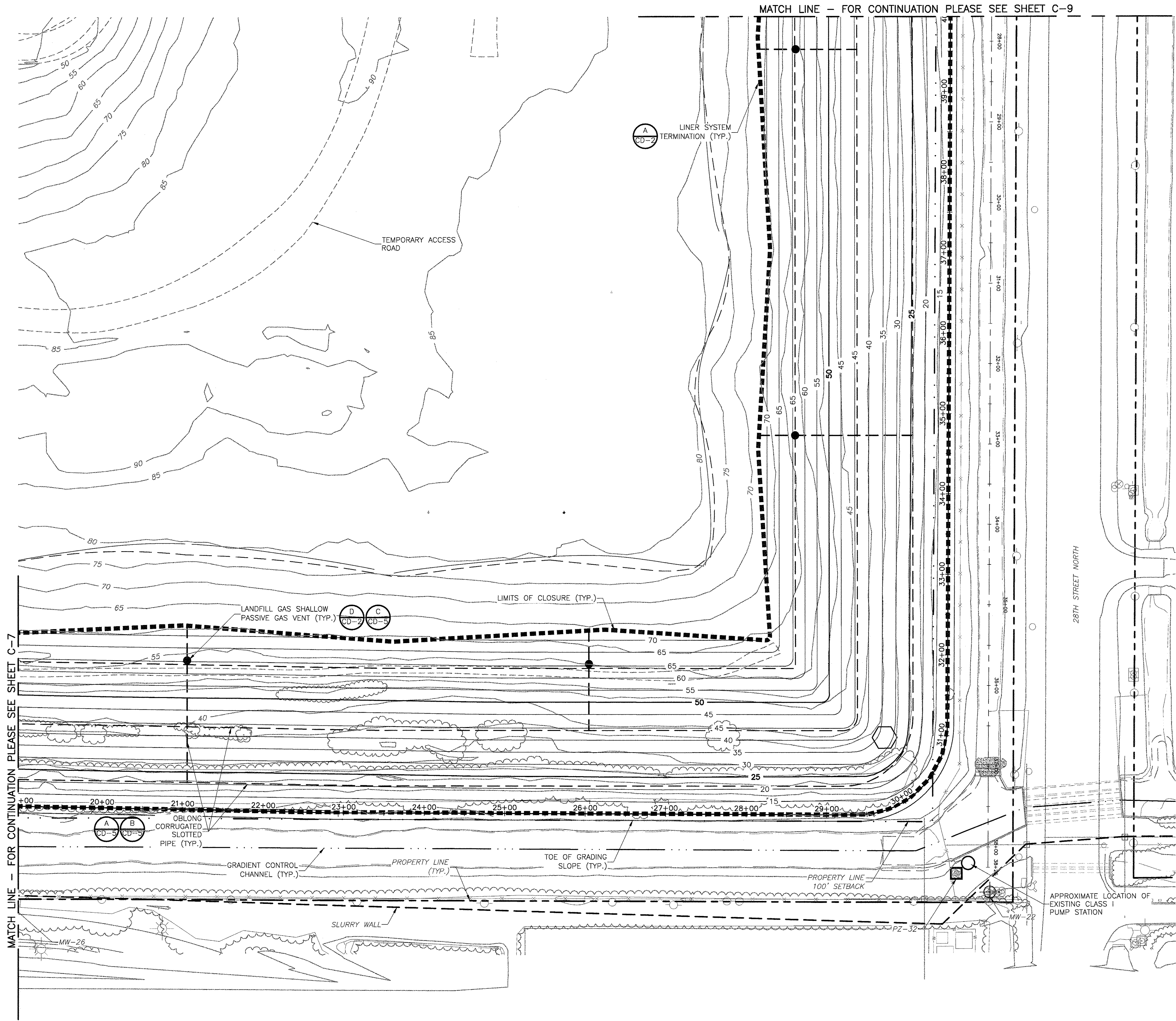
DATE: 6/10/2014
NATHAN D. SCHMAUS
P.E. NO. 74706

PROJECT NO. 6018-80153
FILE NAME: C007STPL
SHEET NO.
C-7

PERMIT SUBMITTAL

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

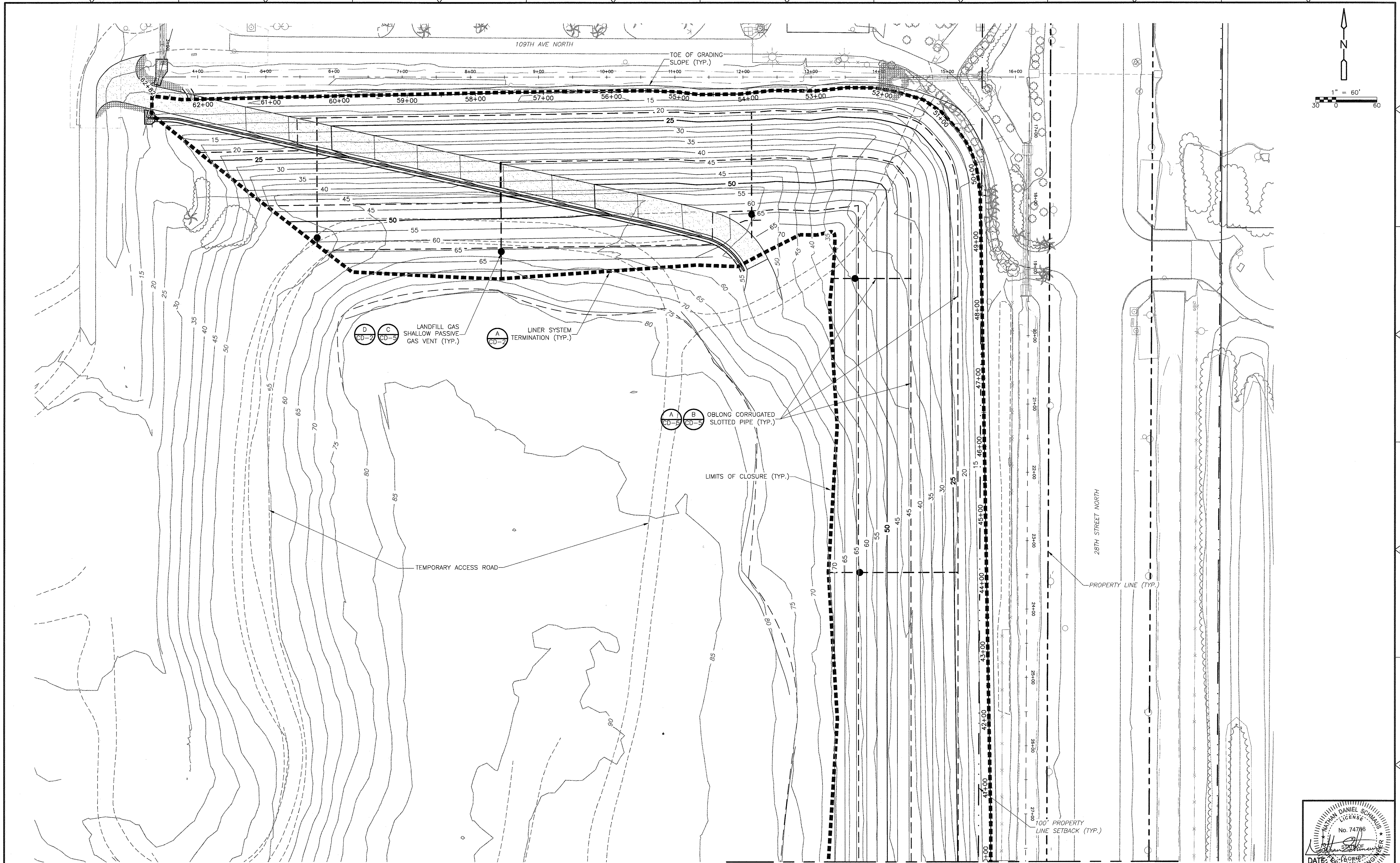
PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

SOUTH AND EAST LANDFILL
GAS CONTROL PLAN

PROJECT NO. 6018-80153
FILE NAME: C008STPL
SHEET NO.
C-8

PERMIT SUBMITTAL

Xref's: [CDMS_2436, CE-SURVEY-2011, CE-BASE, C-BASE-MODEL] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

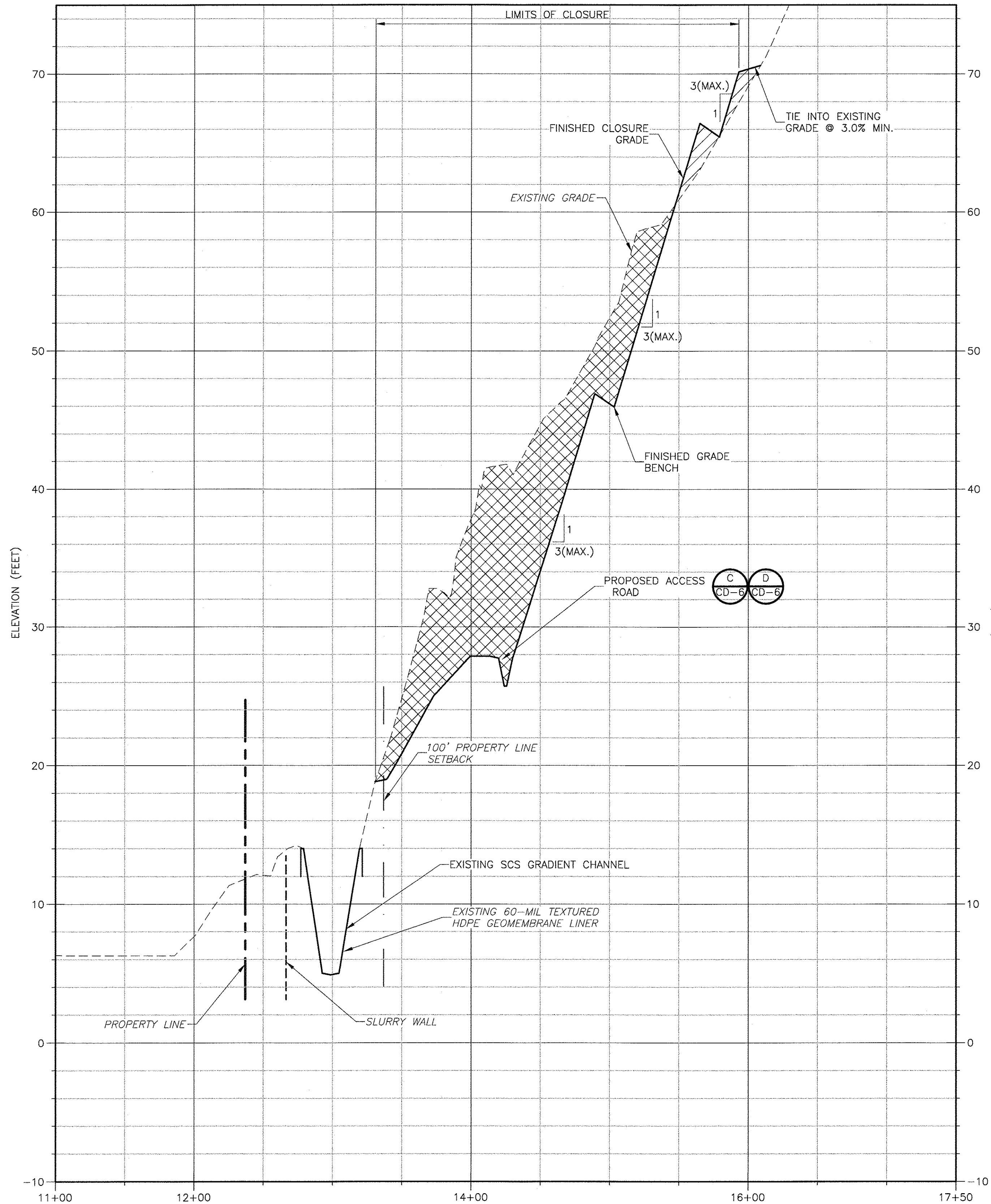
NORTH AND EAST LANDFILL
GAS CONTROL PLAN

PROJECT NO. 6018-80153
FILE NAME: C009STPL
SHEET NO. C-9
PERMIT SUBMITTAL

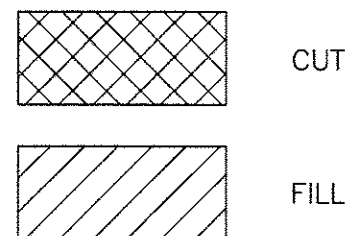
DATE: 6/20/14
SCHMAUS, NATHAN D.
P.E. NO. 174708

NATHAN DANIEL SCHMAUS
LICENSE No. 74786
P.E.

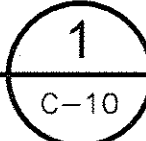
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HATCHING LEGEND



SECTION 1



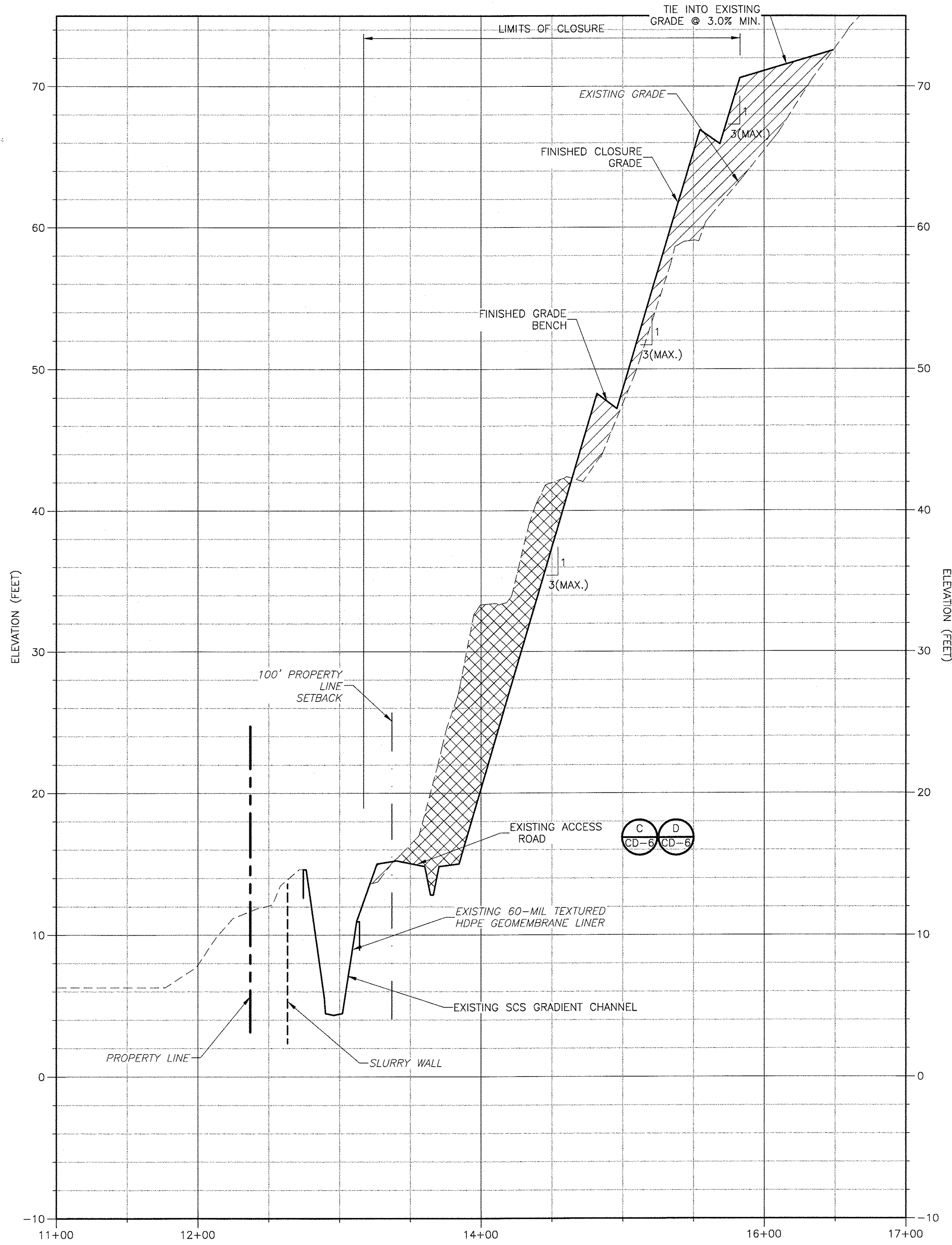
SCALE:
HORZ. 1"=50'
VERT. 1"=5'

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

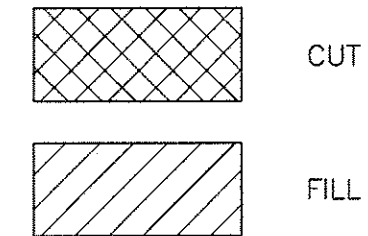
CDM Smith

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Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

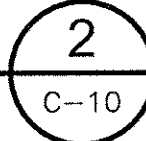
PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792



HATCHING LEGEND

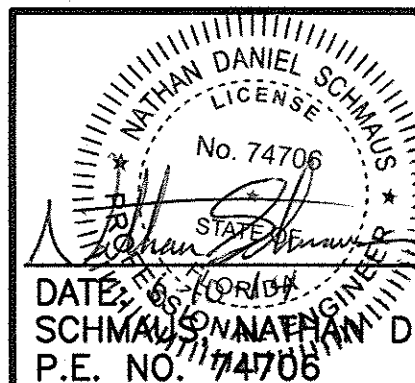


SECTION 2



SCALE:
HORZ. 1"=50'
VERT. 1"=5'

CROSS SECTIONS



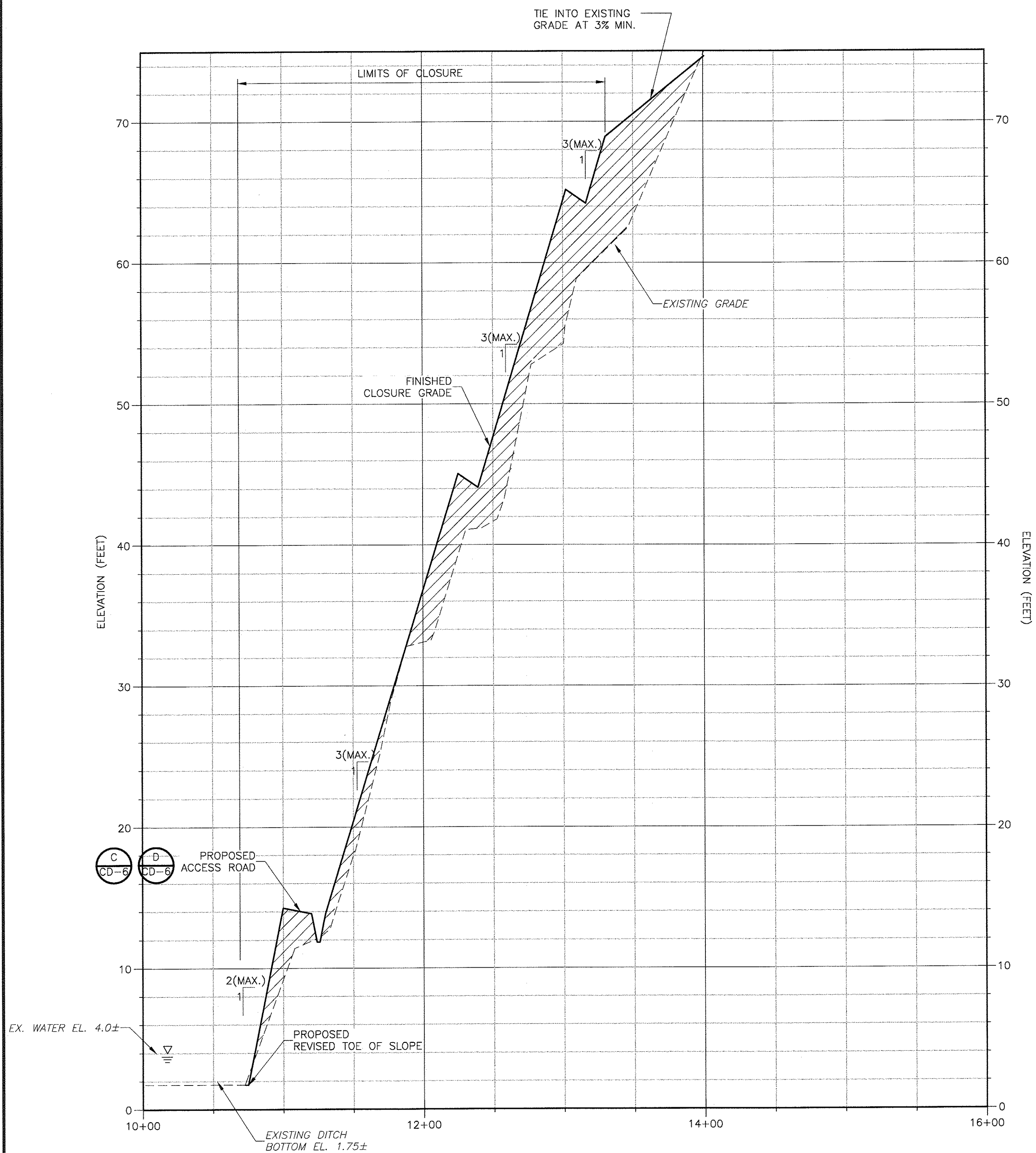
PROJECT NO. 6018-80153
FILE NAME: C011STPL

SHEET NO.

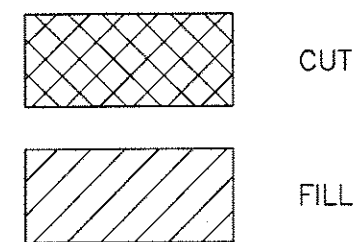
C-11

PERMIT SUBMITTAL

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HATCHING LEGEND



SECTION 3

SCALE:
HORZ. 1"=50'
VERT. 1"=5'

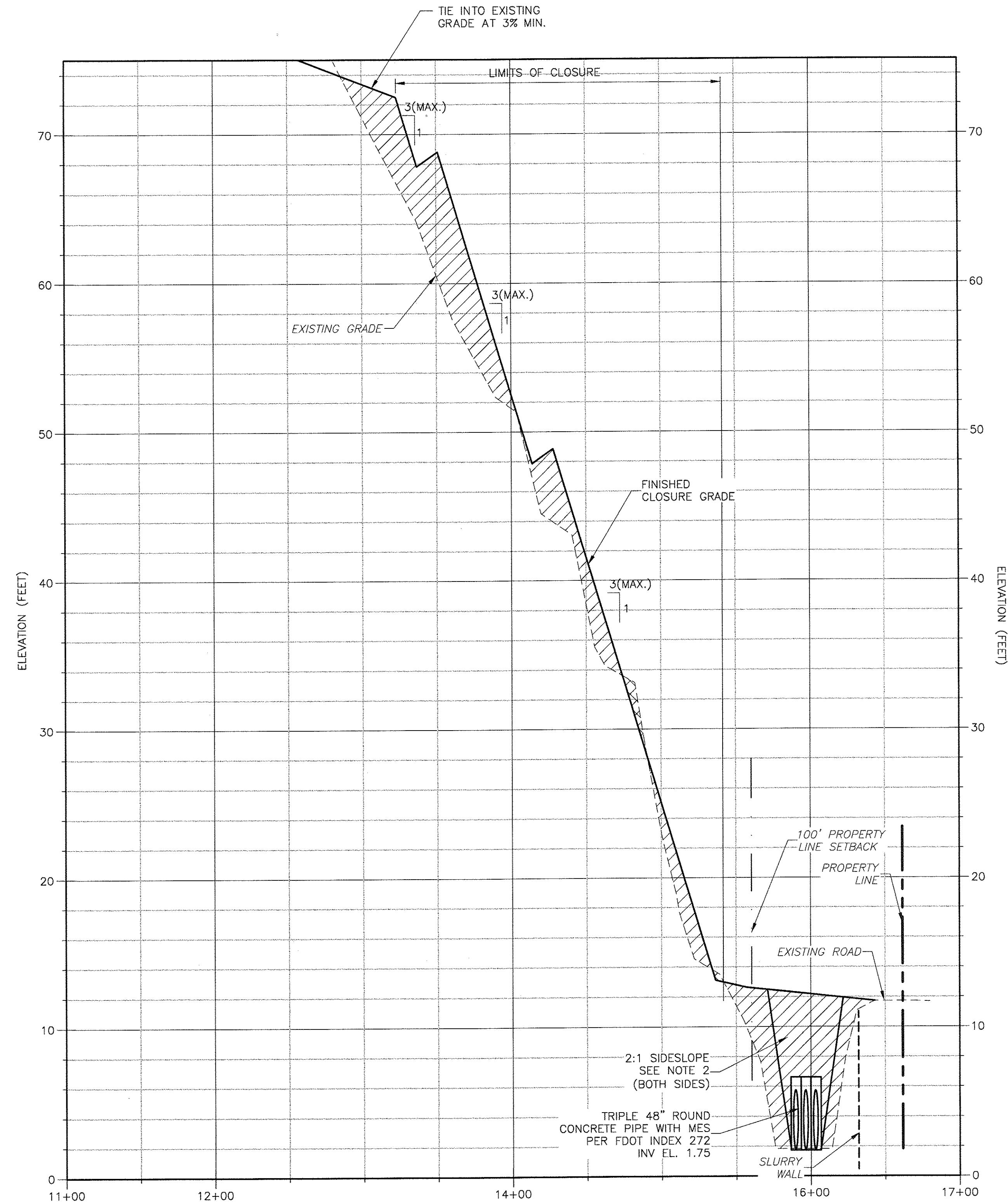
NOTES:

1. THE EXISTING AND PROPOSED SANITARY SEWER FORCEMAINS ARE NOT SHOWN.
2. INSTALL TURF REINFORCEMENT MAT AND PINNED SOD ON SLOPES STEEPER THAN 3:1.

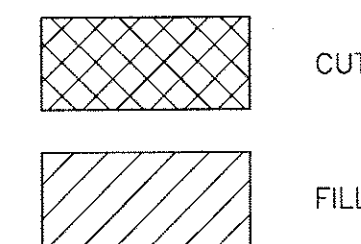
CDM Smith

1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792



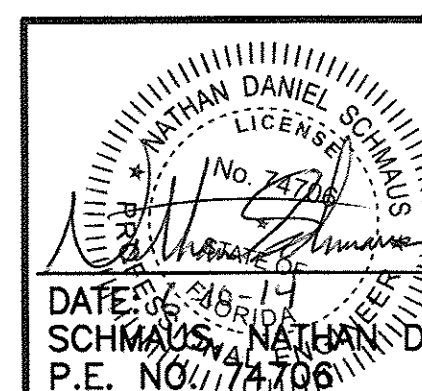
HATCHING LEGEND



SECTION 4

SCALE:
HORZ. 1"=50'
VERT. 1"=5'

CROSS SECTIONS



DATE: 6/26/2014
SCHMAUS, NATHAN D.
P.E. NO. 24724

PROJECT NO. 6018-80153
FILE NAME: C012STPL

SHEET NO.

C-12

PERMIT SUBMITTAL

Xref's: [CDMS_2436_CE-BASE_C-BASE-MODEL] Images: []

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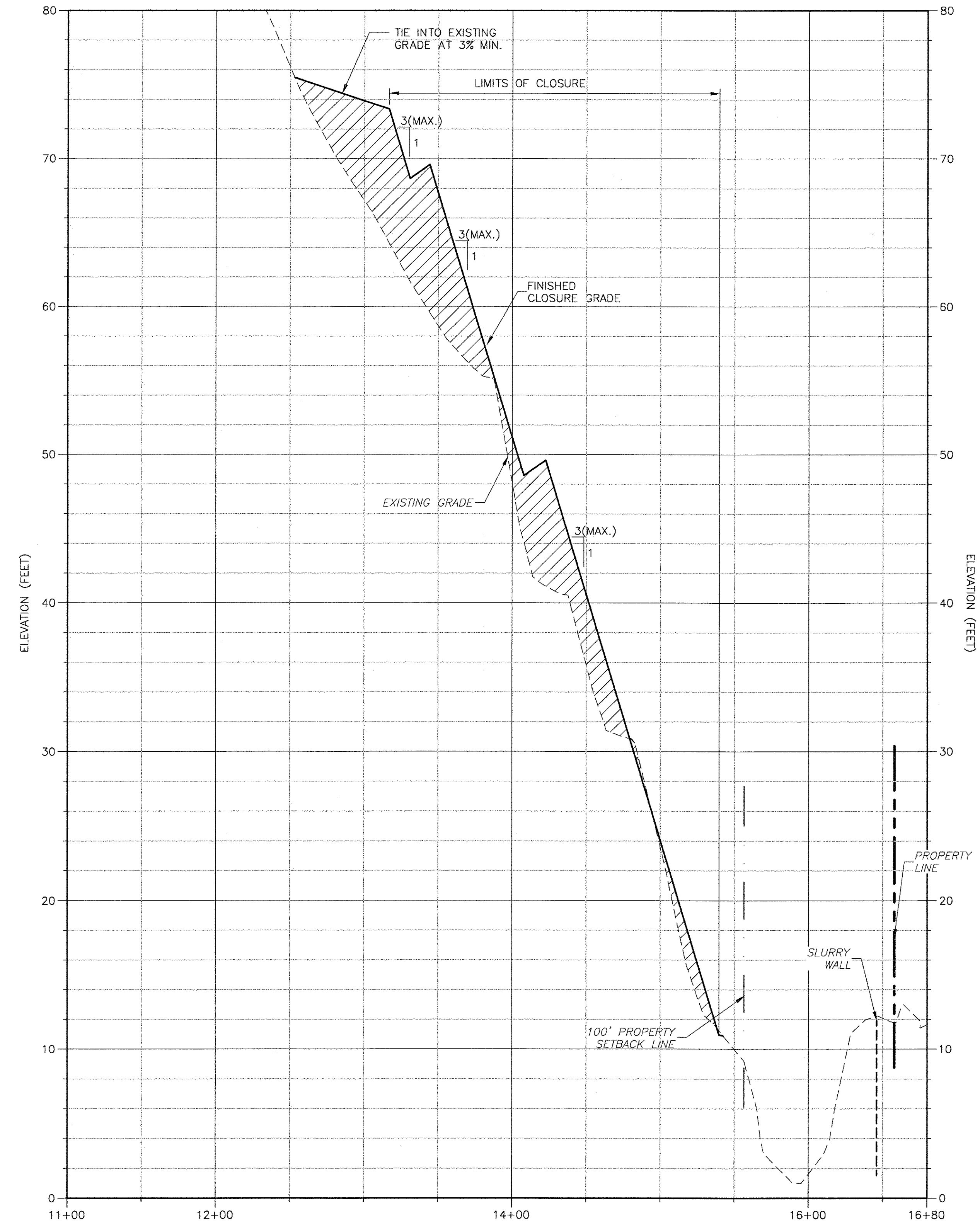
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

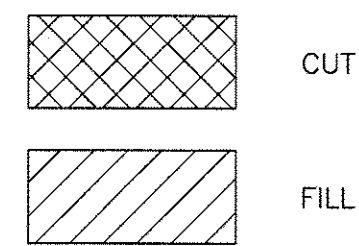
CDM Smith
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Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

NOTES:

1. THE EXISTING AND PROPOSED SANITARY SEWER FORCEMAINS ARE NOT SHOWN.



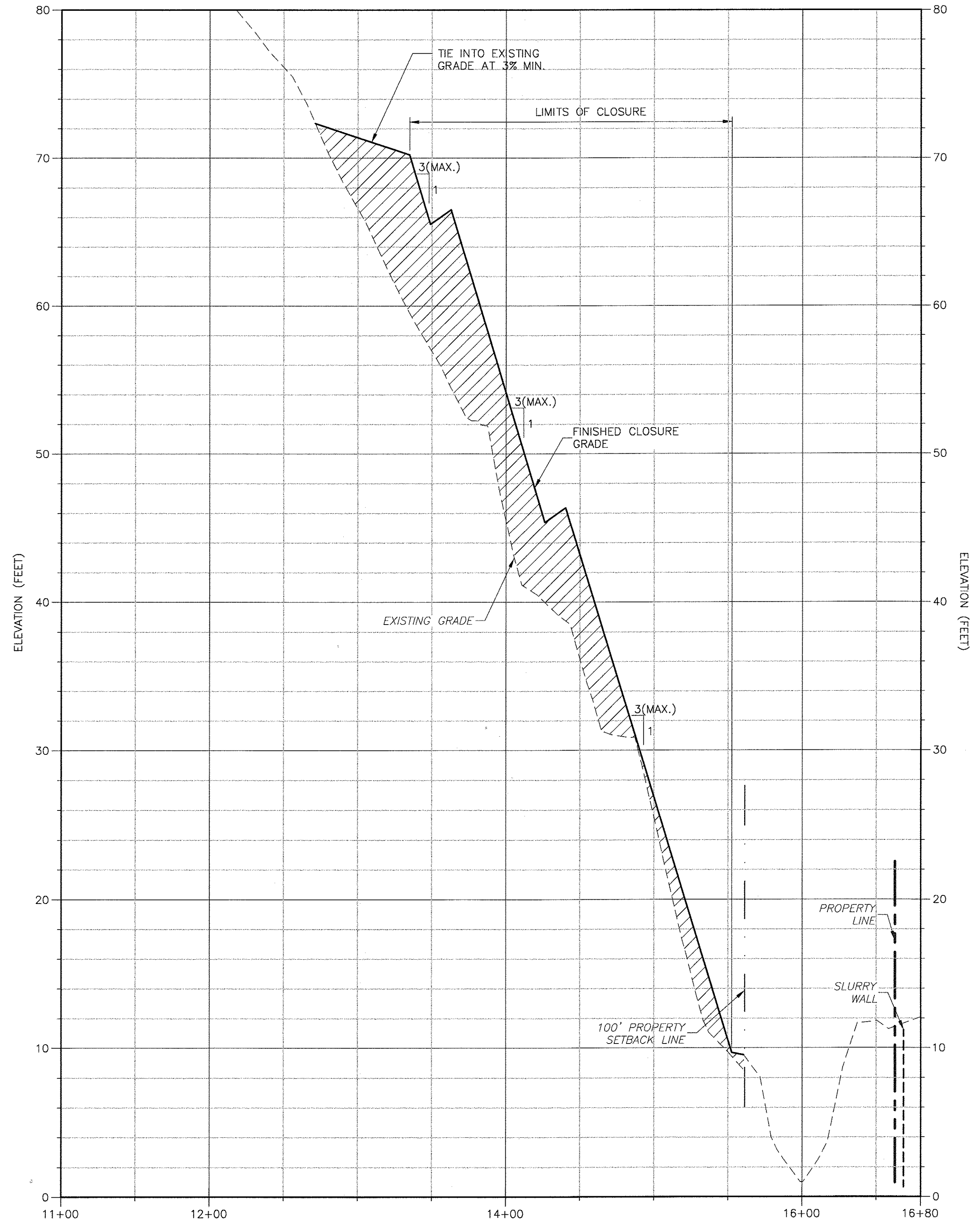
HATCHING LEGEND



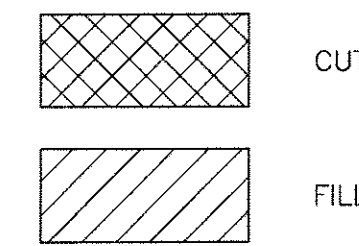
SECTION 5

SCALE:
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VERT. 1"=5'

C-10



HATCHING LEGEND



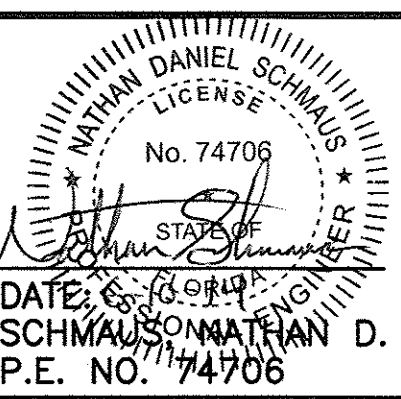
SECTION 6

SCALE:
HORZ. 1"=50'
VERT. 1"=5'

C-10

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

CROSS SECTIONS



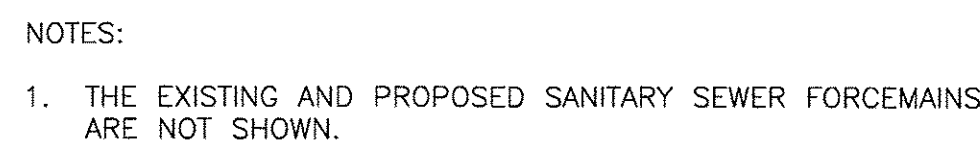
PROJECT NO. 6018-80153
FILE NAME: C013STPL

SHEET NO.

C-13

PERMIT SUBMITTAL

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7
C-10

SCALE:
HORZ. 1"=50'
VERT. 1"=5'

DESIGNED BY: _____ A. SONAWANE
DRAWN BY: _____ D. MOHLE
SHEET CHK'D BY: _____ J. McHUGH
CROSS CHK'D BY: _____ J. LADNER
APPROVED BY: _____ N. SCHMAUS
DATE: _____ JUNE 2014

**CDM
Smith**
1715 North Westshore Blvd.
Tampa, FL 33607
Tel: (813) 281-2900
FAX: (813) 281-2900

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792



8
C-10

SCALE:
HORZ. 1"=50'
VERT. 1"=5'

CROSS SECTIONS

NATHAN DANIEL SCHMAUS
 LICENSE
 No. 74706
 STATE OF CALIFORNIA
 DATE: 6-18-04
 SCHMAUS, NATHAN D.
 P.E. NO. 74706

PROJECT NO.	6018-80153
FILE NAME:	C014STPI

SHEET NO.

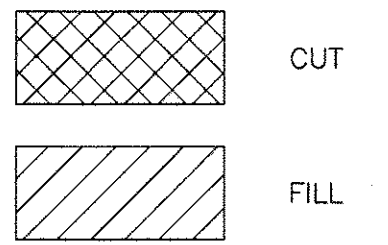
C-14

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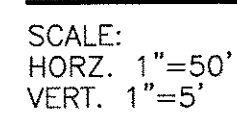


1. THE EXISTING AND PROPOSED SANITARY SEWER FORCEMAINS ARE NOT SHOWN

SCALE:
HORZ. 1"=50'
VERT. 1"=5'

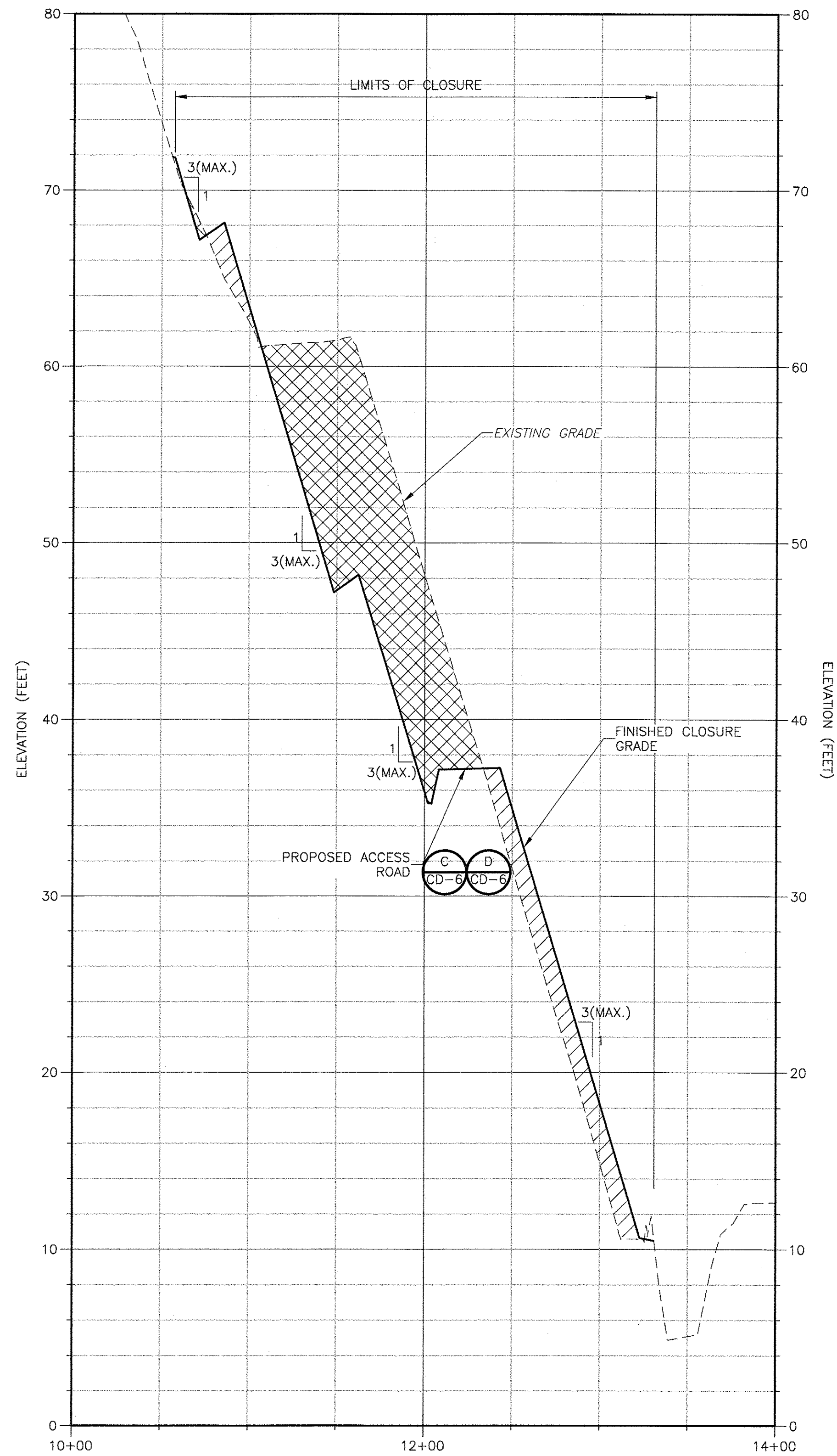
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792



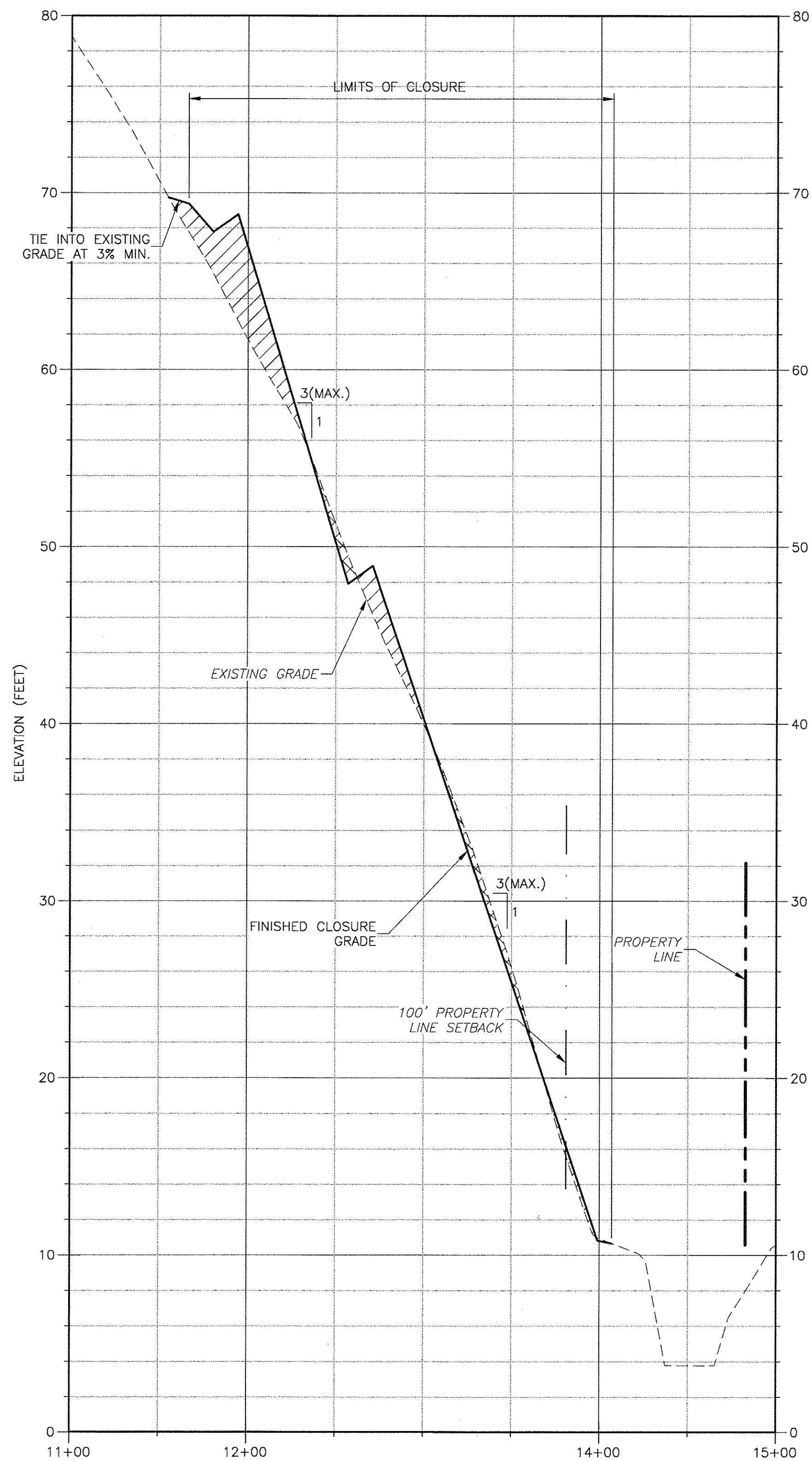
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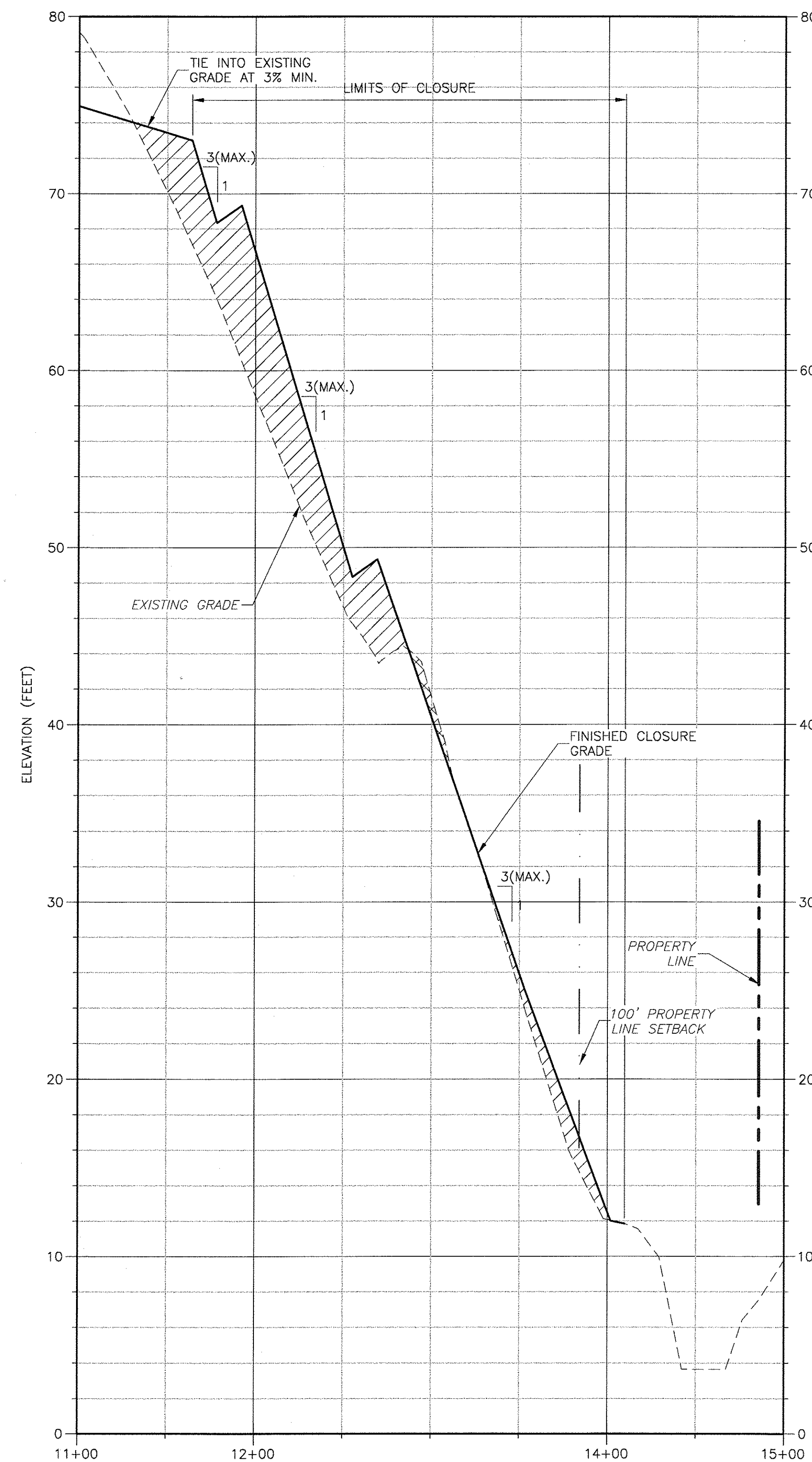
SECTION **11**
SCALE: 1"=50'
HORIZ. 1"=50'
VERT. 1"=5'

HATCHING LEGEND
CUT
FILL



SECTION **7A**
SCALE: 1"=50'
HORIZ. 1"=50'
VERT. 1"=5'

HATCHING LEGEND
CUT
FILL



SECTION **7B**
SCALE: 1"=50'
HORIZ. 1"=50'
VERT. 1"=5'

HATCHING LEGEND
CUT
FILL

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-00002020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

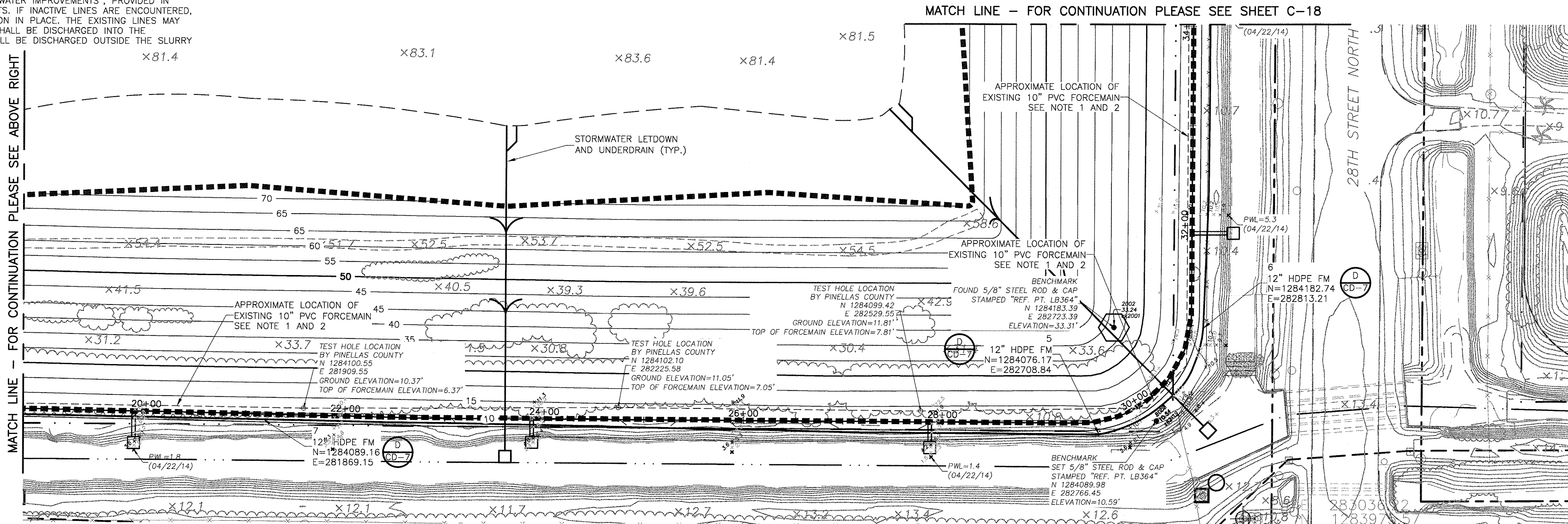
CROSS SECTIONS

PROJECT NO.	6018-80153
FILE NAME:	C0165TPL
SHEET NO.	
C-16	

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Xref's: [CDWS_2436, CE-SURVEY-2011, CE-BASE, C-BASE-MODEL] Images: []
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- NOTES:
1. THE CONTRACTOR SHALL PROTECT THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.
 2. CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION ACTIVITIES THAT MAY DAMAGE THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.
 3. EXISTING INACTIVE LEACHATE AND IRRIGATION LINES ARE LOCATED AROUND THE PERIMETER OF THE LANDFILL AS SHOWN IN THE DRAWINGS TITLED, "SOLID WASTE DEPARTMENT PHASE II STORMWATER IMPROVEMENTS", PROVIDED IN APPENDIX 6 IN CONTRACT DOCUMENTS. IF INACTIVE LINES ARE ENCOUNTERED, CONTRACTOR IS TO CAP AND ABANDON IN PLACE. THE EXISTING LINES MAY CONTAIN LEACHATE. THE LEACHATE SHALL BE DISCHARGED INTO THE PERIMETER DITCH. NO LEACHATE SHALL BE DISCHARGED OUTSIDE THE SLURRY WALLS.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM
Smith

1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
Fl. CDA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

FORCE MAIN
RELOCATION PLAN

NATHAN DANIEL SCHMAUS

LICENSE

No. 74706

STATE OF FLORIDA

REGISTERED PROFESSIONAL ENGINEER

DATE: 06/16/2011

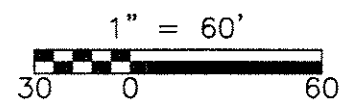
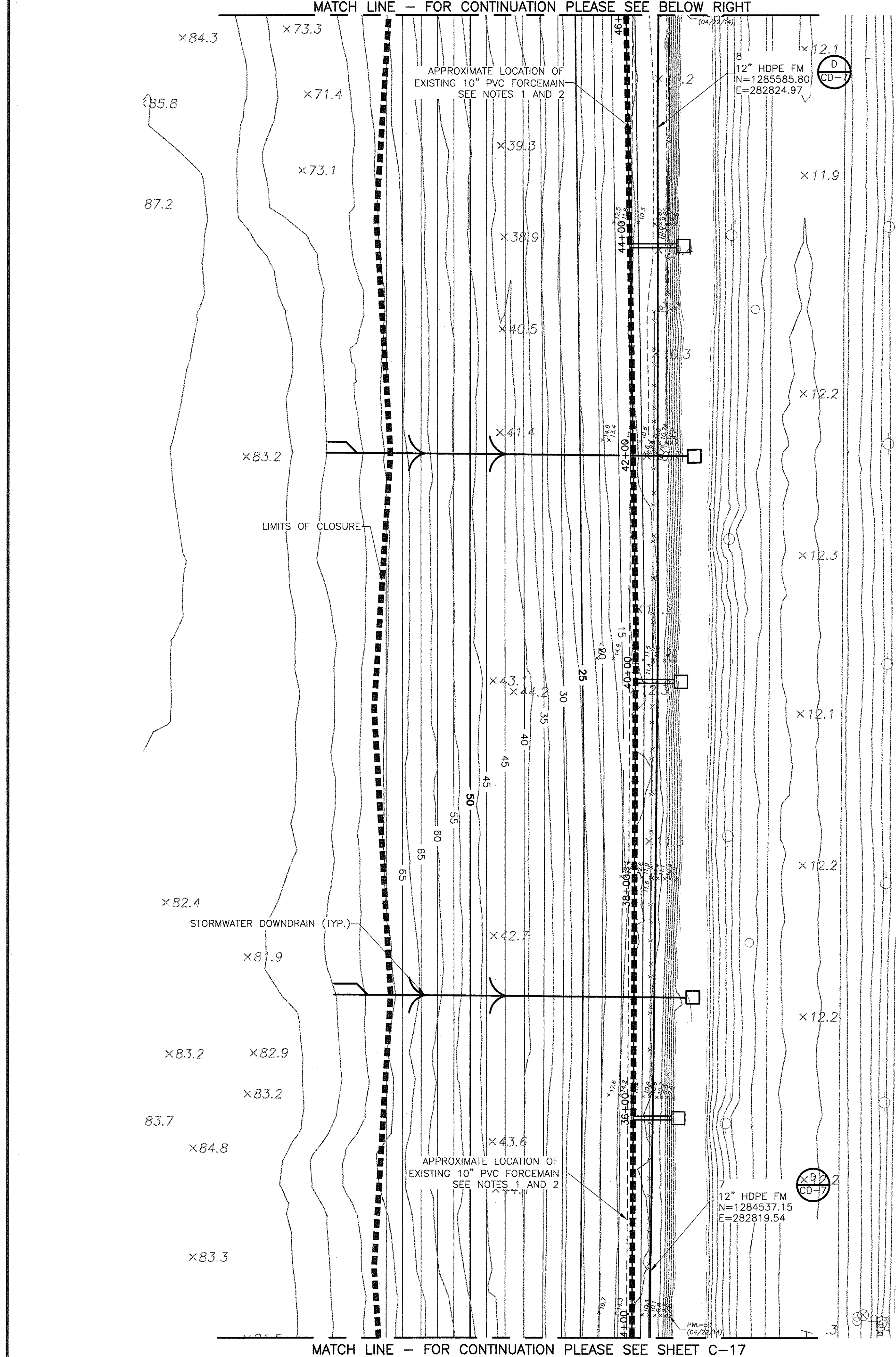
SCHMAUS, NATHAN D.

P.E. NO. 74706

PROJECT NO. 6018-80153
FILE NAME: C017STPL
SHEET NO. C-17

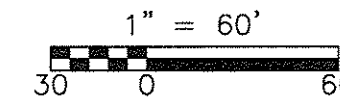
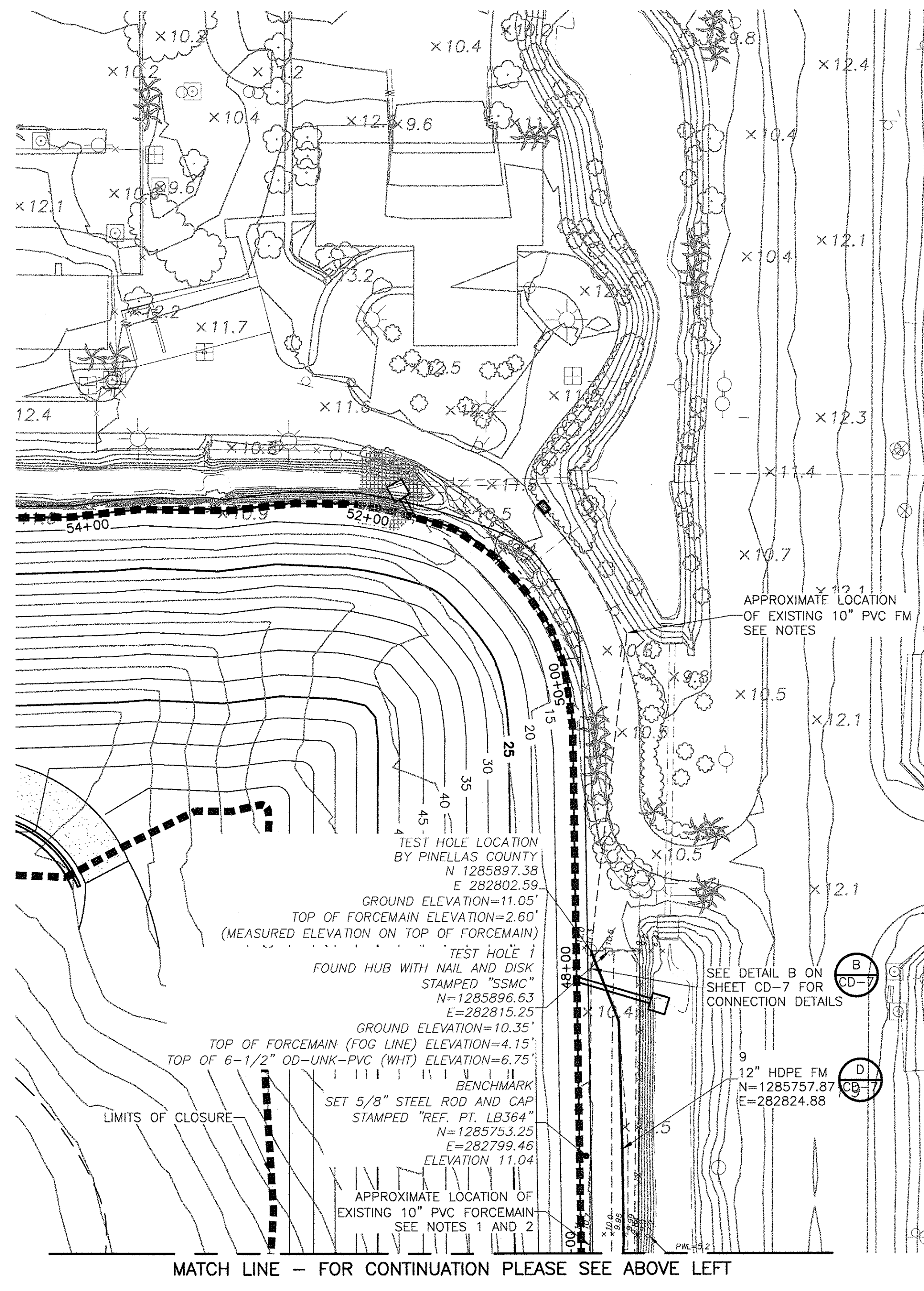
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Xref's: [CDMS_2436, CE-SURVEY-2011, CE-BASE, C-BASE-MODEL] Images: []
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NOTES:

1. THE CONTRACTOR SHALL PROTECT THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.
2. CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION ACTIVITIES THAT MAY DAMAGE THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.
3. EXISTING INACTIVE LEACHATE AND IRRIGATION LINES ARE LOCATED AROUND THE PERIMETER OF THE LANDFILL AS SHOWN IN THE DRAWINGS TITLED, "SOLID WASTE DEPARTMENT PHASE II STORMWATER IMPROVEMENTS", PROVIDED IN APPENDIX 6 IN THE CONTRACT DOCUMENTS. IF INACTIVE LINES ARE ENCOUNTERED, CONTRACTOR IS TO CAP AND ABANDON IN PLACE. THE EXISTING LINES MAY CONTAIN LEACHATE. THE LEACHATE SHALL BE DISCHARGED INTO THE PERIMETER DITCH. NO LEACHATE SHALL BE DISCHARGED OUTSIDE THE SLURRY WALL.



REV.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

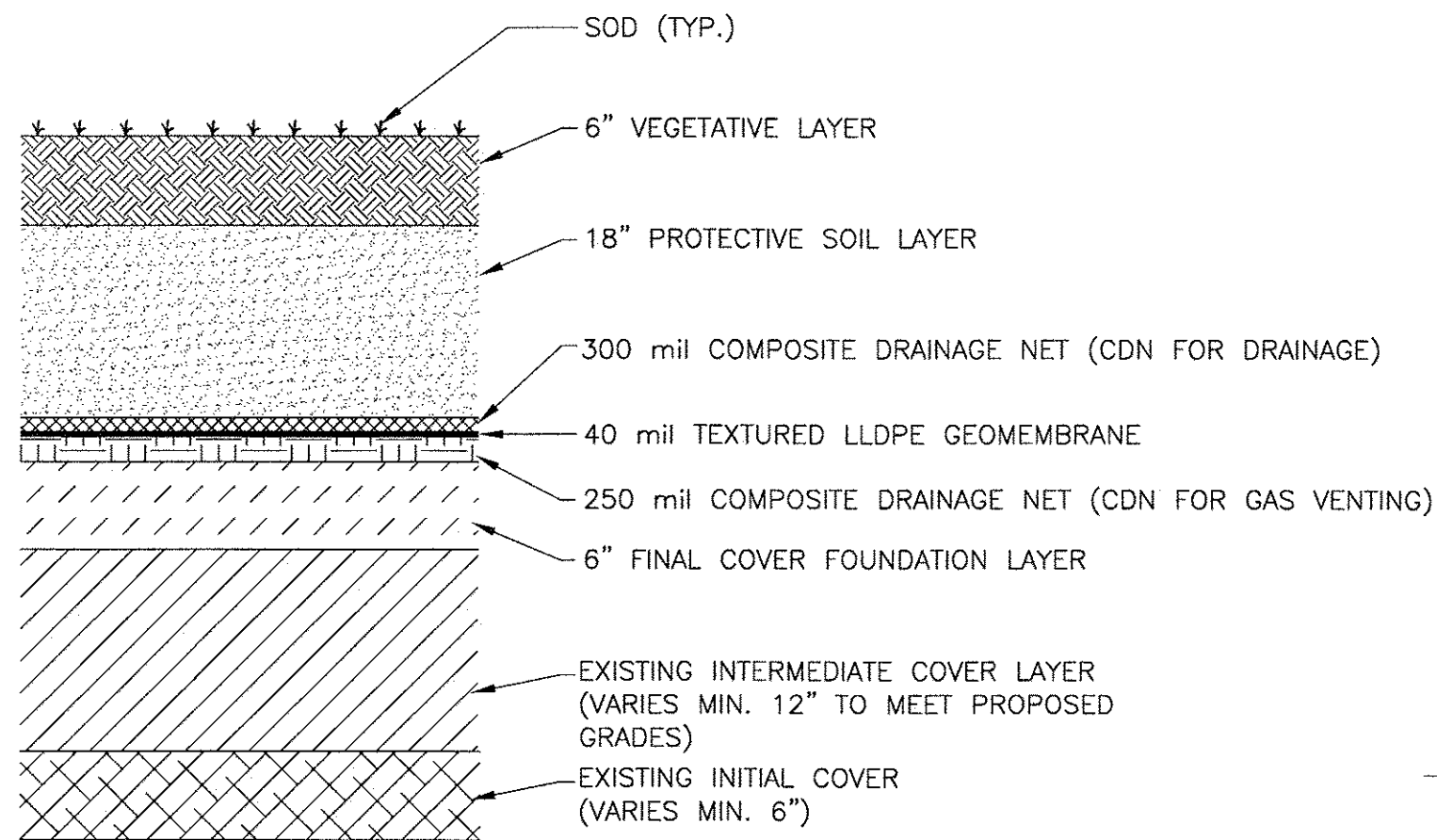
PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

FORCE MAIN
RELOCATION PLAN

PROJECT NO.	6018-80153
FILE NAME:	C017STPL
SHEET NO.	C-18

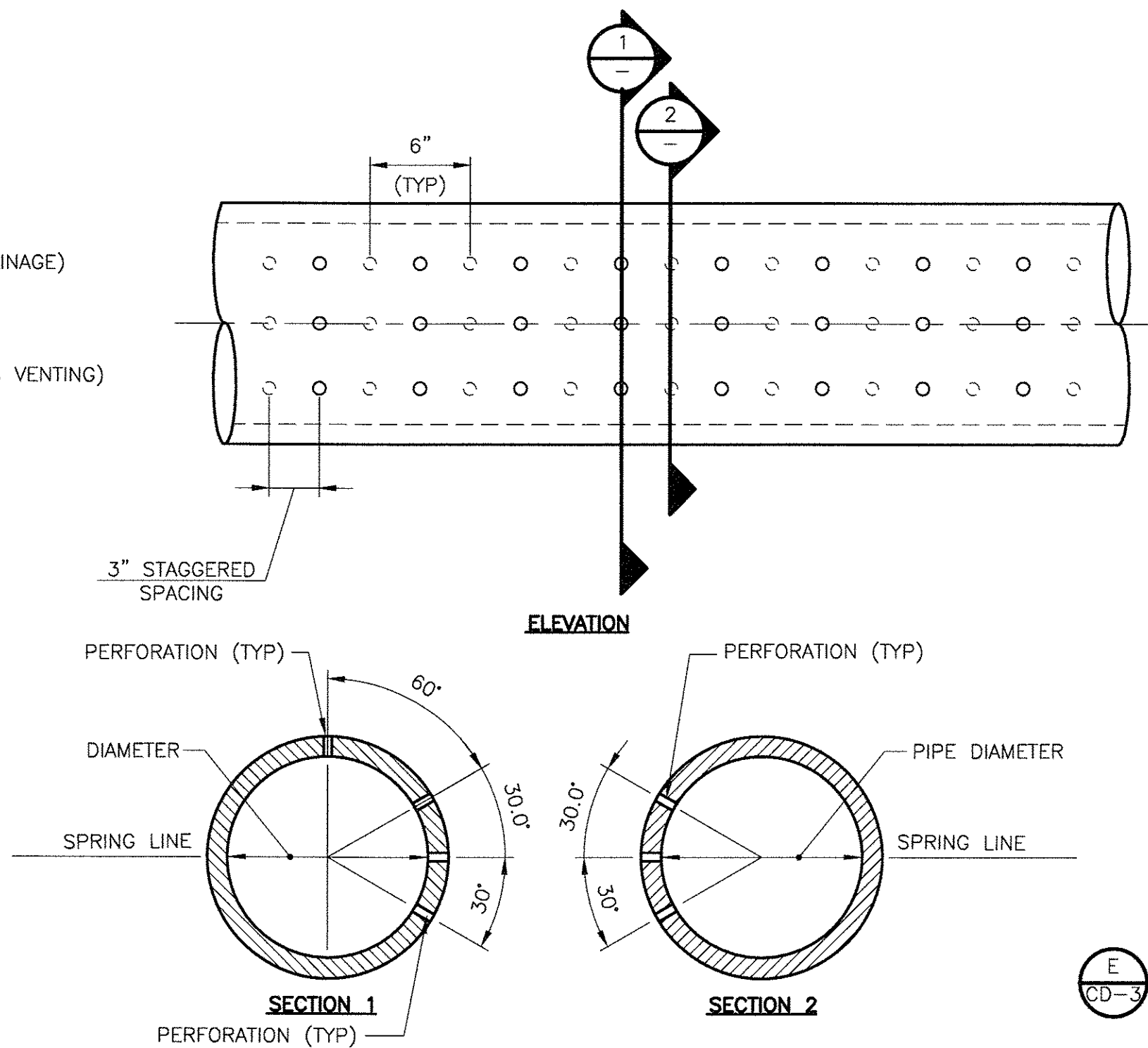
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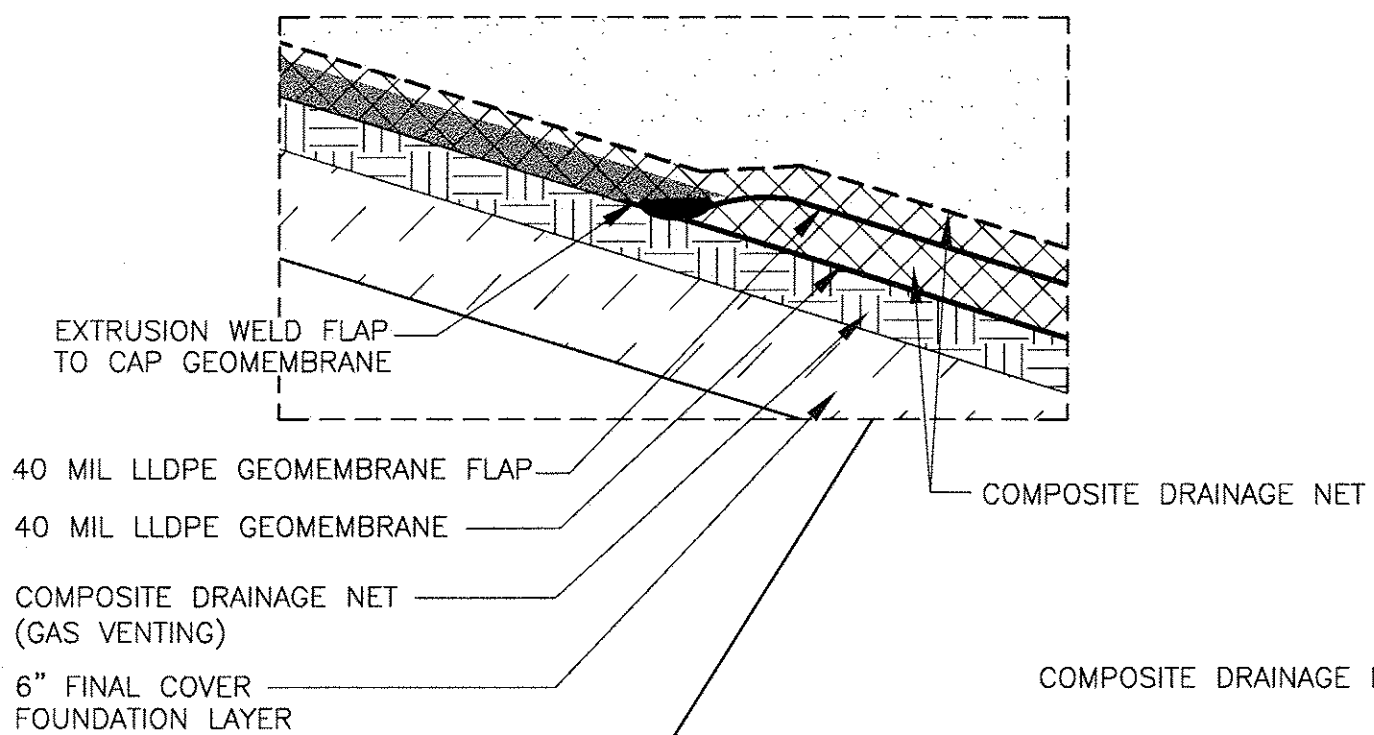
TYPICAL FINAL COVER DETAIL

DETAIL A
NTS



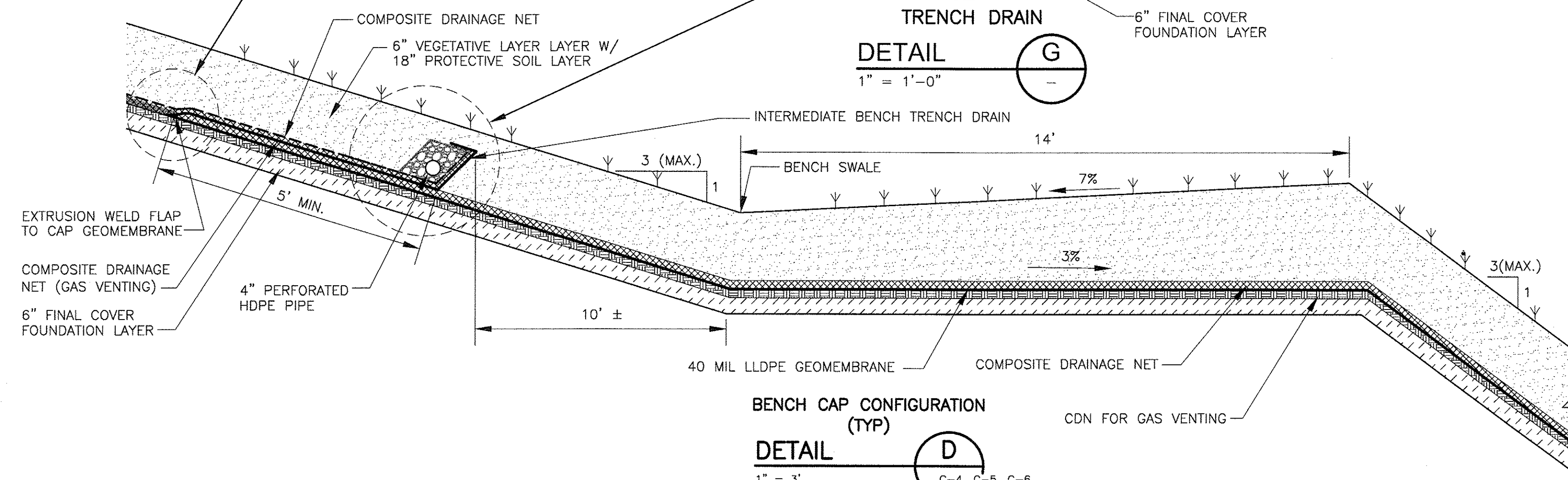
PERFORATED HDPE PIPE

DETAIL F
NTS



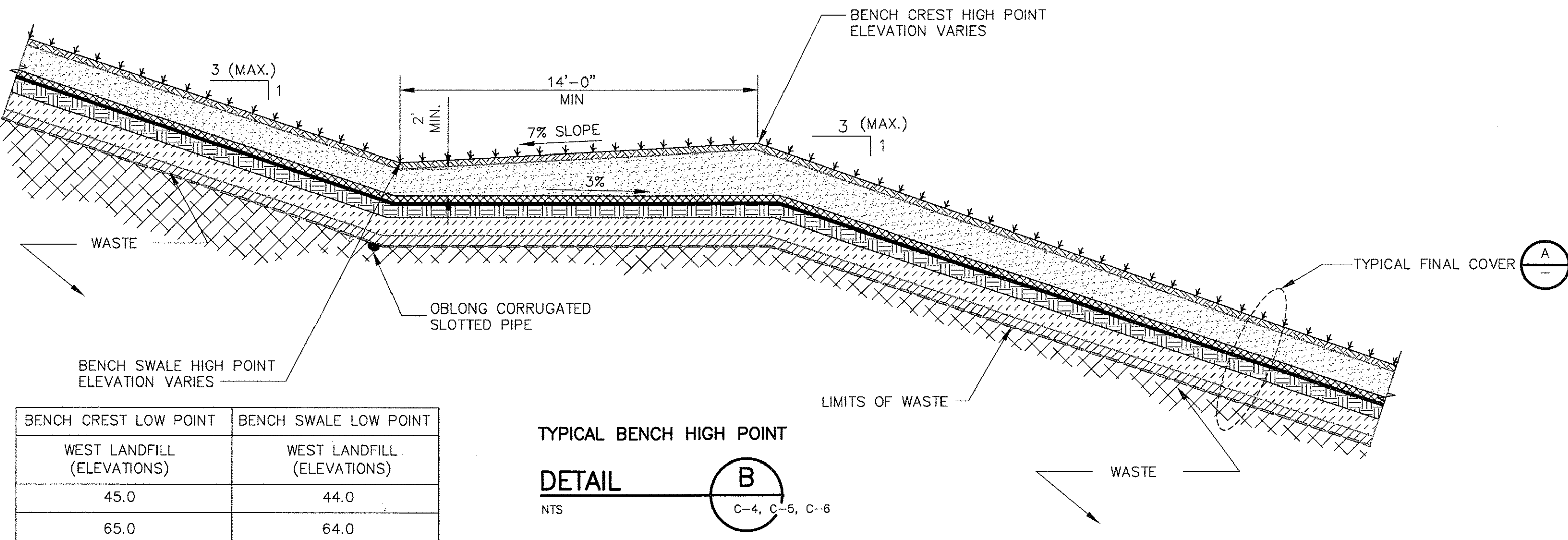
TRENCH DRAIN

DETAIL G
1" = 1'-0"



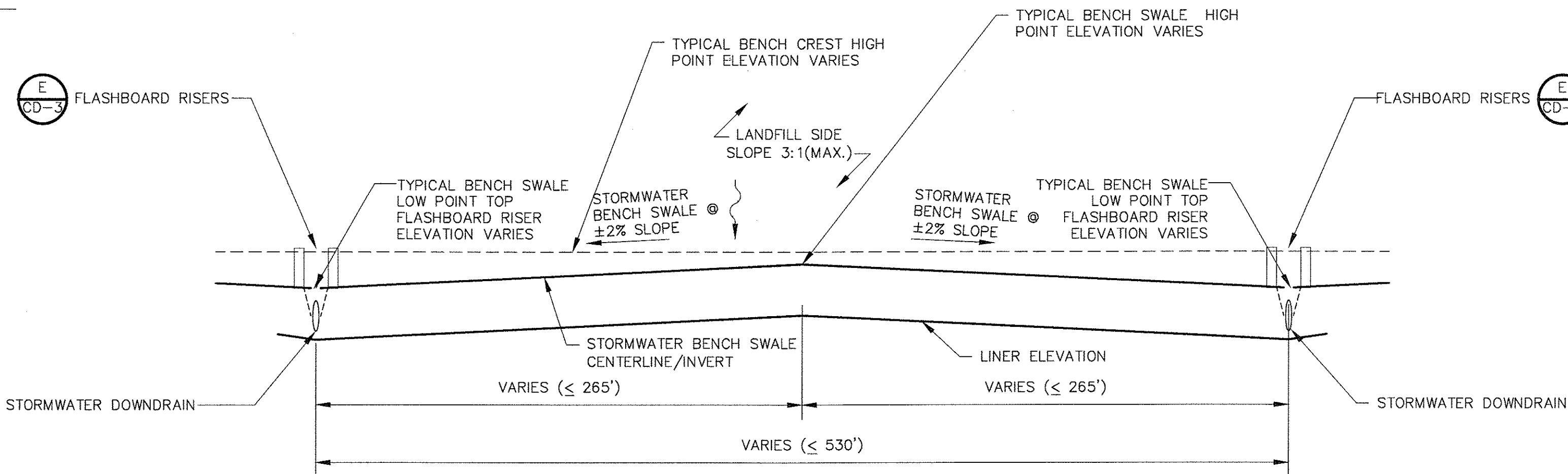
BENCH CAP CONFIGURATION (TYP)

DETAIL D
1" = 3'



TYPICAL BENCH HIGH POINT

DETAIL B
NTS

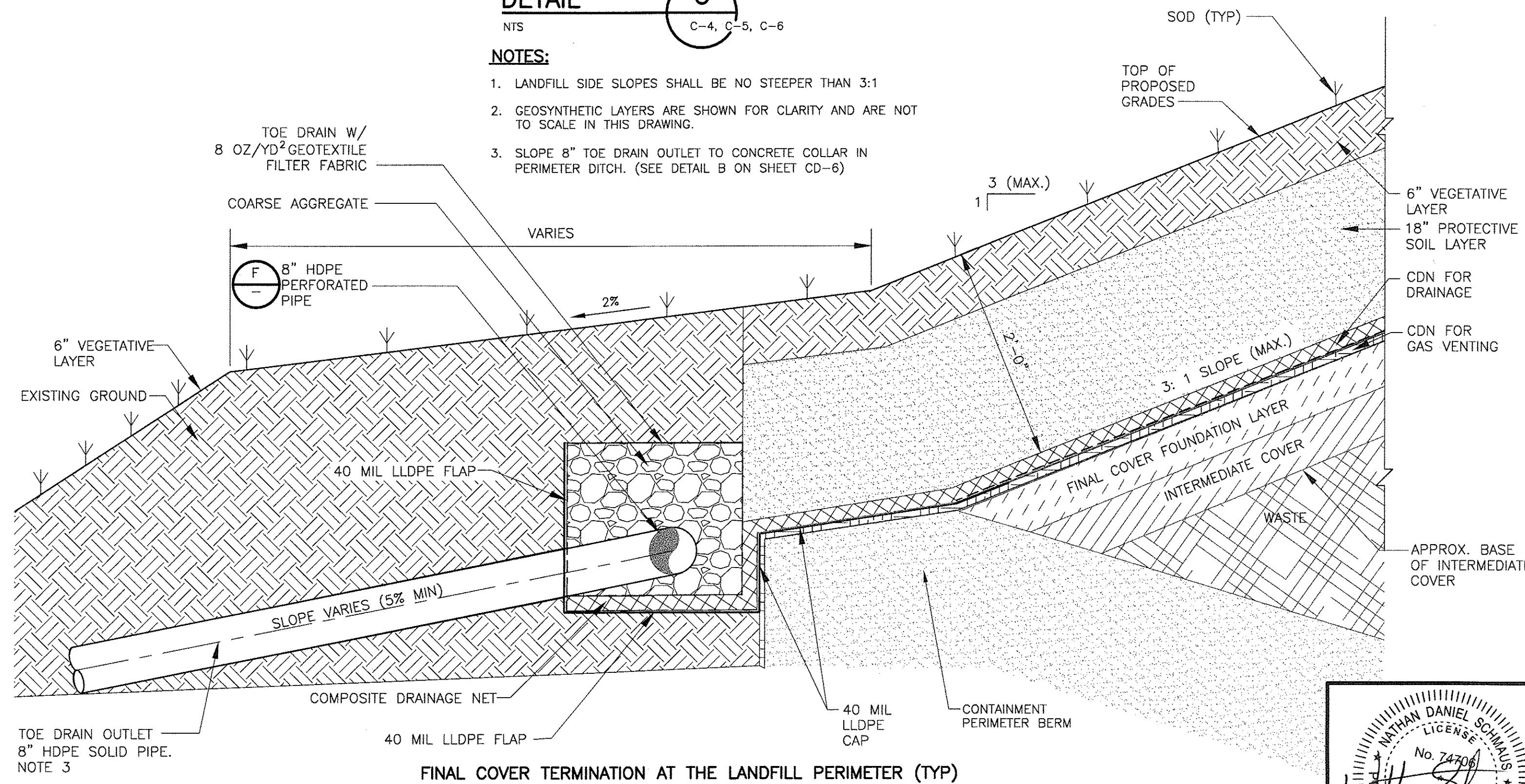


TYPICAL CENTERLINE OF STORMWATER BENCH SWALE

DETAIL C
NTS

NOTES:

1. LANDFILL SIDE SLOPES SHALL BE NO STEEPER THAN 3:1
2. GEOSYNTHETIC LAYERS ARE SHOWN FOR CLARITY AND ARE NOT TO SCALE IN THIS DRAWING.
3. SLOPE 8" TOE DRAIN OUTLET TO CONCRETE COLLAR IN PERIMETER DITCH. (SEE DETAIL B ON SHEET CD-6)



FINAL COVER TERMINATION AT THE LANDFILL PERIMETER (TYP)

DETAIL E
NTS

REV.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. McHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

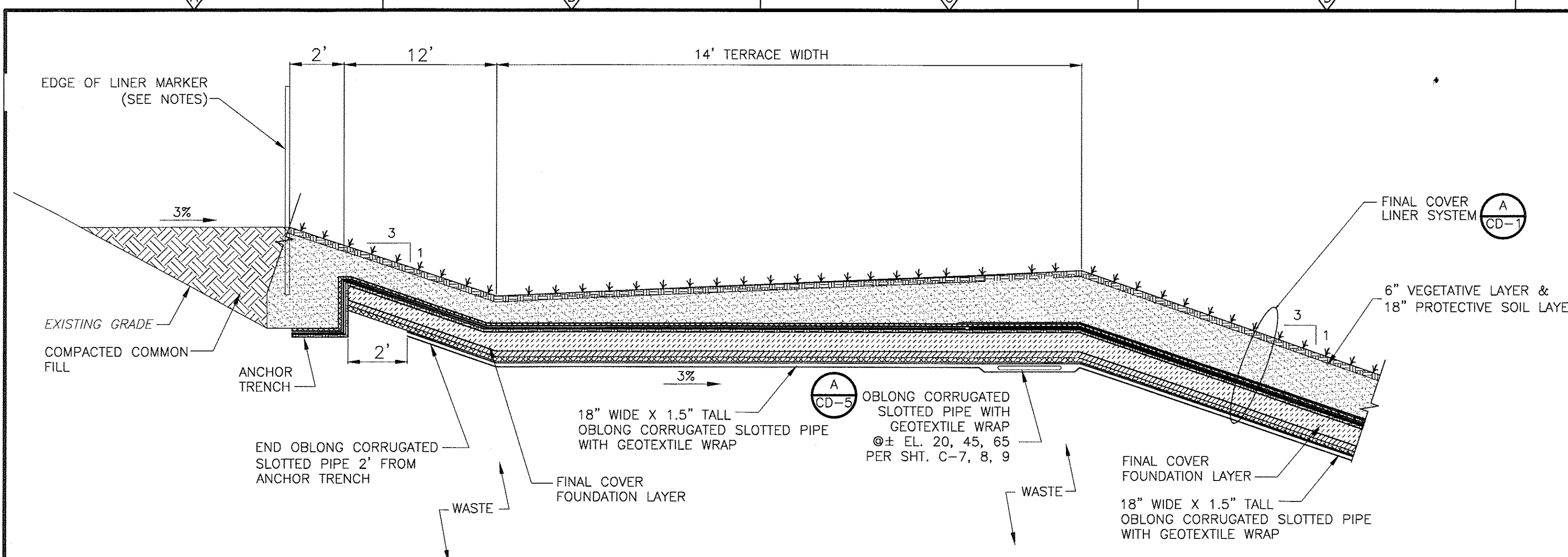
CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

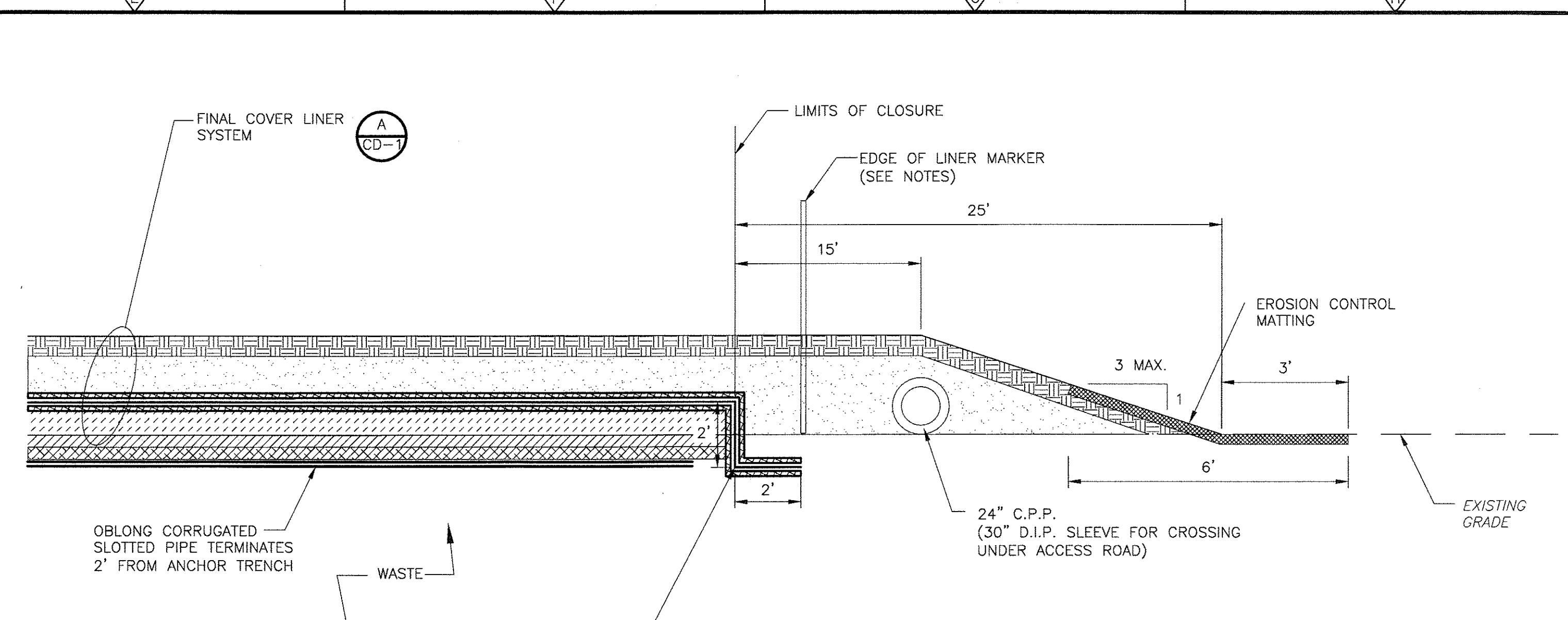
FINAL COVER DETAILS

PROJECT NO. 6018-80153
FILE NAME: CD01SDOT
SHEET NO.
CD-1

PERMIT SUBMITTAL

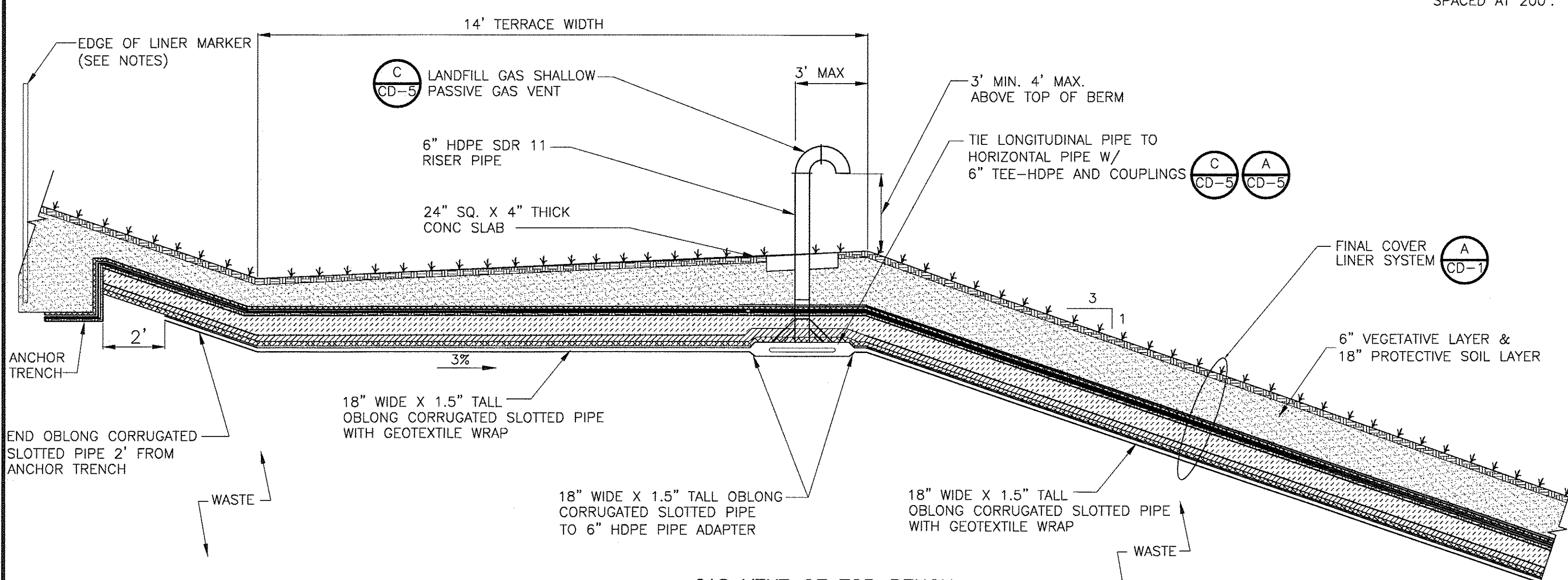


LINER SYSTEM TERMINATION
 DETAIL A
 NTS C-7, C-8, C-9

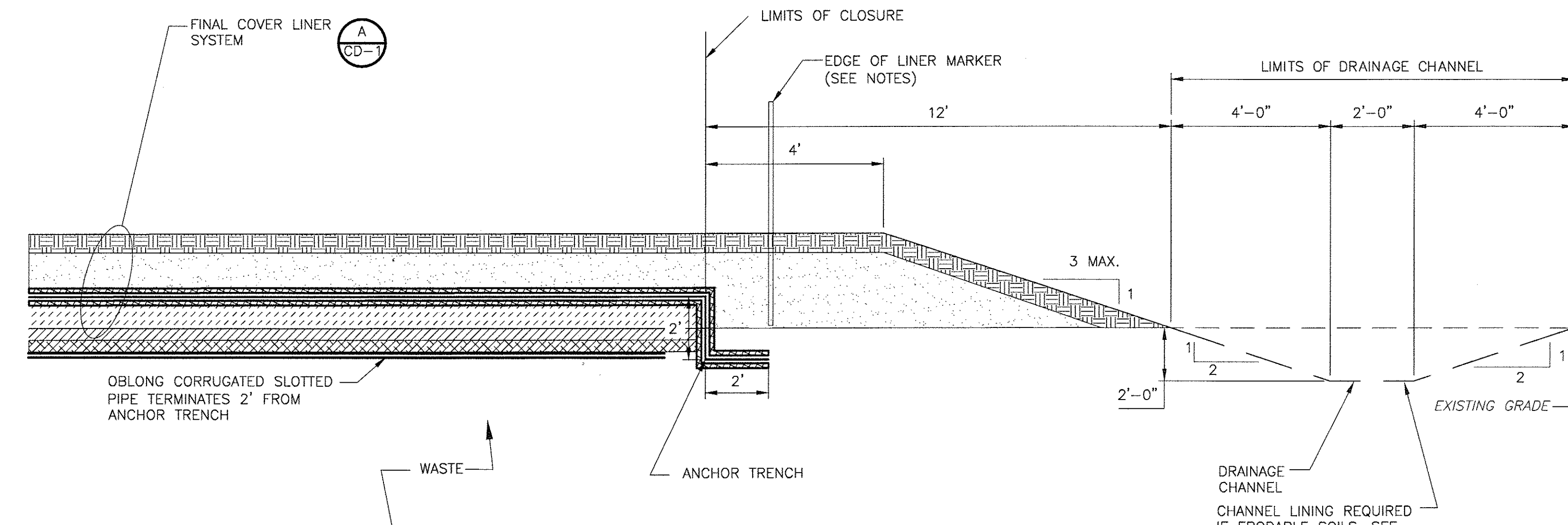


SIDE LINER SYSTEM TERMINATION WEST SIDE LOCATION
 DETAIL B
 NTS C-4

- NOTES:**
1. MARKER SHALL BE A CARSONITE 72" CFUM-400 CURV-FLEX. MARKER DECAL SHALL READ "EDGE OF LINER 2 FT OFFSET" AND SHALL BE CUSTOM DECAL 2 COLOR (YELLOW) NON-REFLECTIVE, 2 7/8"x1/16"
 2. MARKERS SHALL BE PLACED AT CORNERS AND SPACED AT 200'.



GAS VENT OF TOP BENCH
 DETAIL D
 NTS C-7, C-8, C-9



SIDE LINER SYSTEM TERMINATION NORTH SIDE LOCATION
 DETAIL C
 NTS C-6

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
 DRAWN BY: D. MOHLE
 SHEET CHK'D BY: J. McHUGH
 CROSS CHK'D BY: J. LADNER
 APPROVED BY: N. SCHMAUS
 DATE: JUNE 2014

CDM Smith
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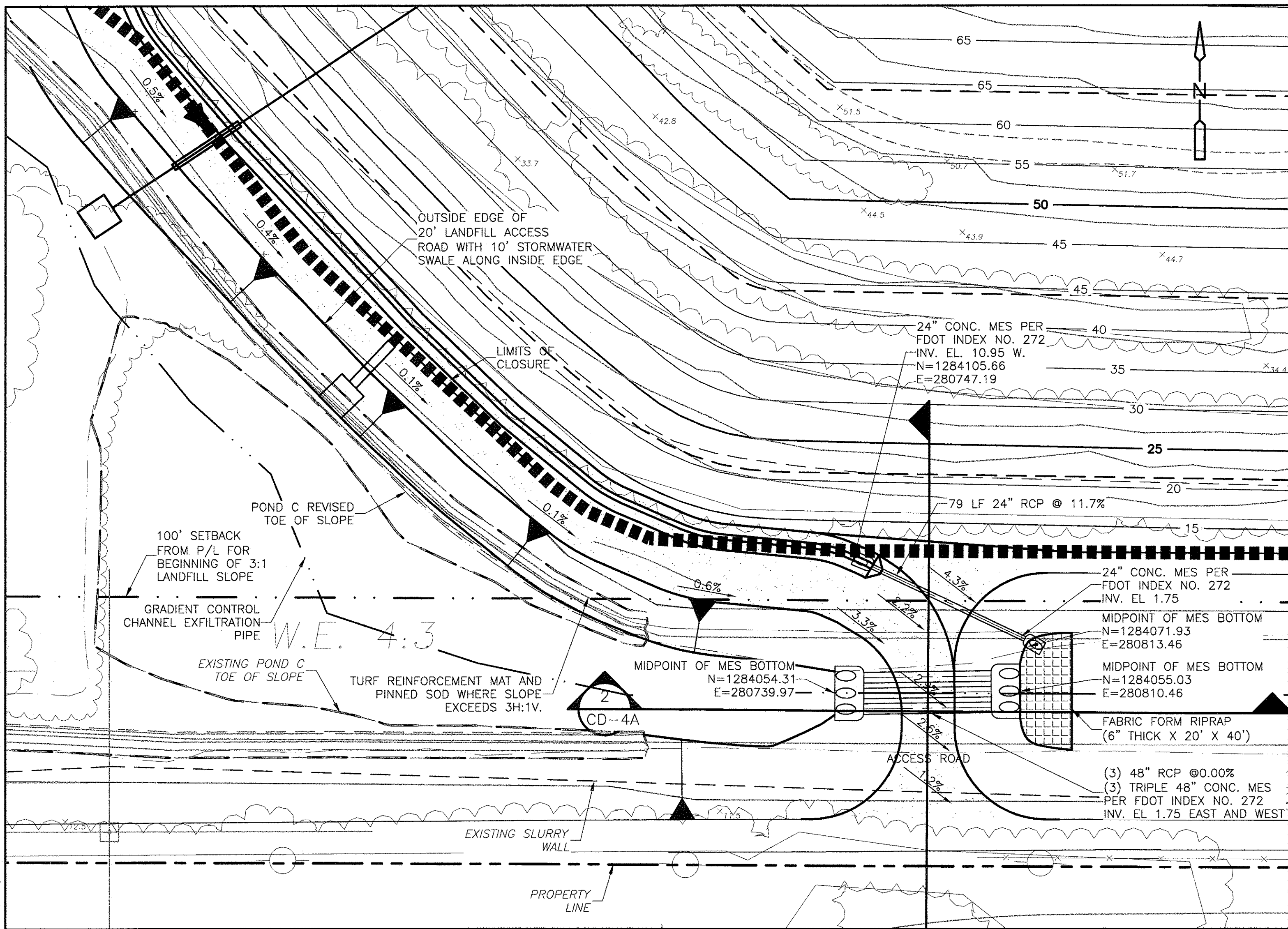
PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
 DIVISION OF SOLID WASTE
 SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
 CLASS I LANDFILL
 PROJECT NO. 1792

FINAL COVER DETAILS
 CD-2

PROJECT NO. 6018-80153
 FILE NAME: CD02SDOT
 SHEET NO.
 CD-2
 PERMIT SUBMITTAL

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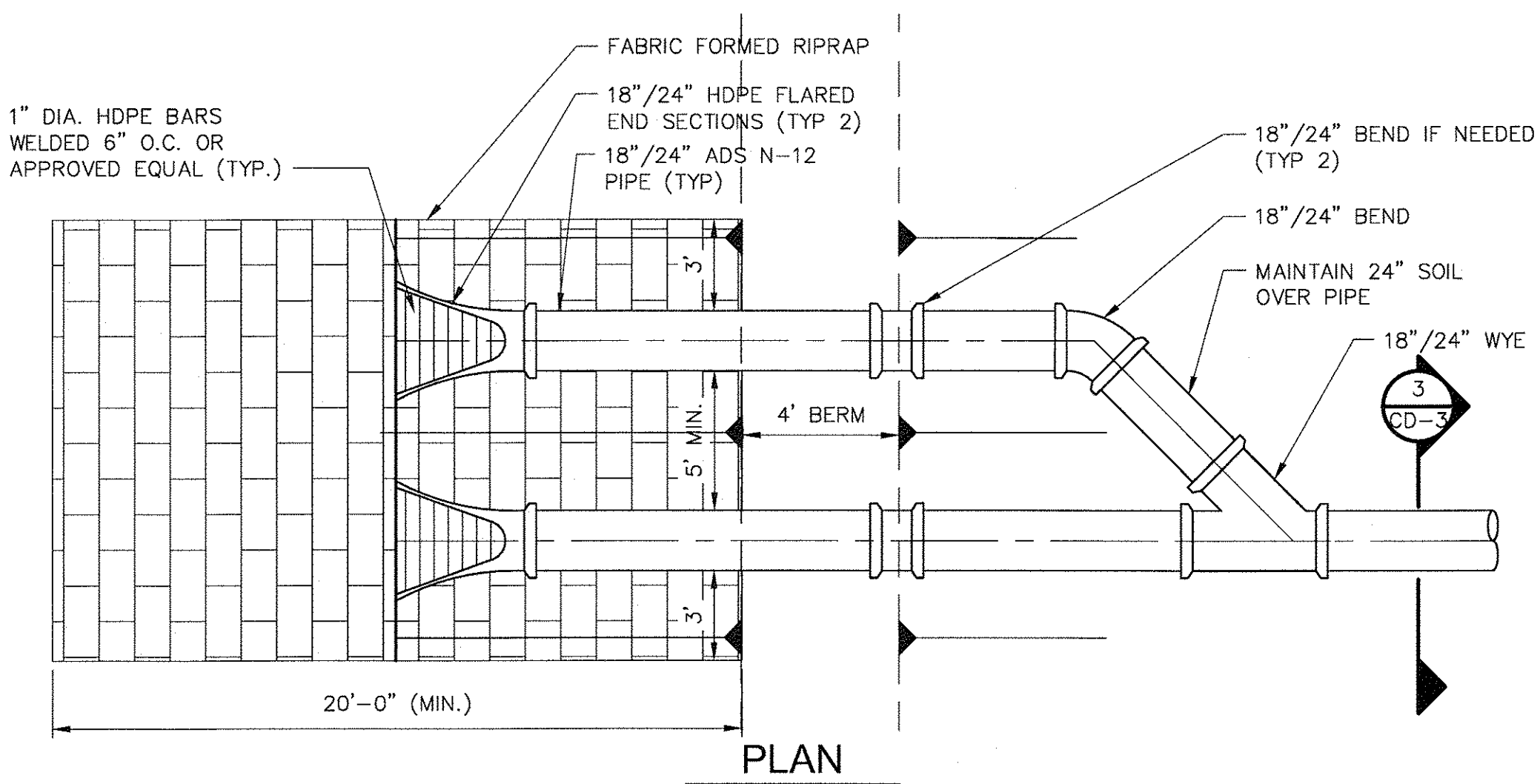
SOUTHWEST ACCESS ROAD CONNECTION

PLAN

SCALE 1"=30'

NOTES:

1. NEW 12" HDPE FORCEMAIN IS NOT SHOWN. SEE SHEETS C-17 AND C-18 FOR PROPOSED FORCEMAIN LOCATION.

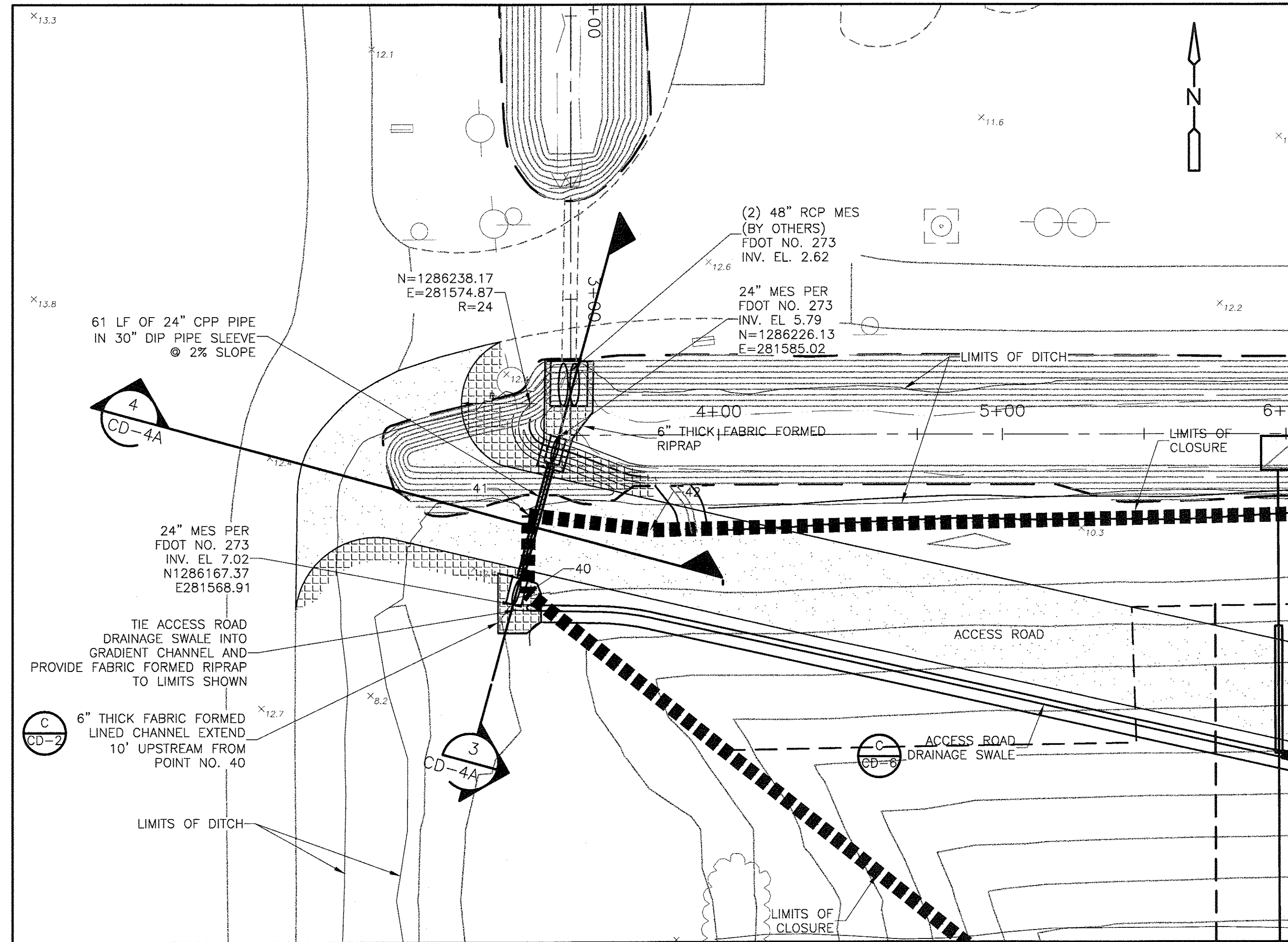


TEMPORARY TOP OF SLOPE PIPE

DETAIL

NTS

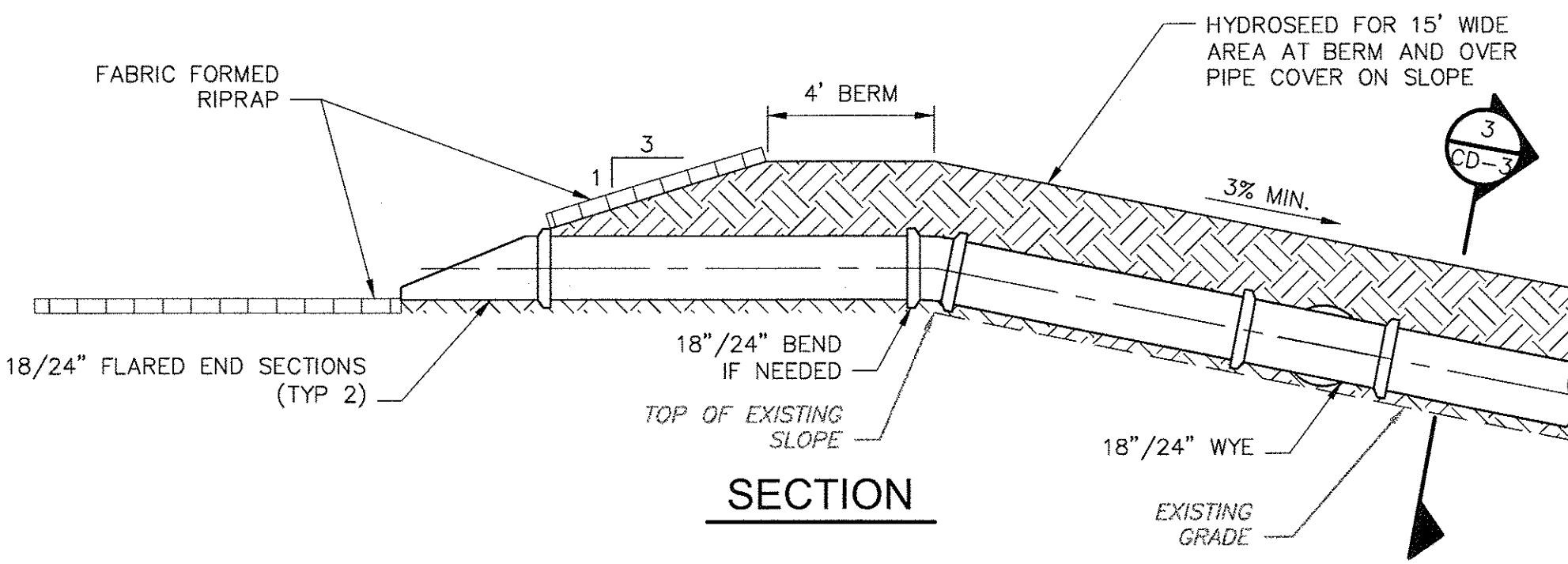
C-4, C-5, C-6



NORTHEAST ACCESS ROAD CONNECTION

PLAN

NTS



SECTION

GENERAL NOTES:

1. REFER TO SHEET C-3 FOR LIMITS OF CLOSURE POINT DATA.
2. EXISTING OR PROPOSED ROAD
3. CONTRACTOR SHALL PROTECT SLURRY WALL DURING CONSTRUCTION.

REV.	NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. MCHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

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PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

ACCESS ROAD CROSSING PLAN AND
STORMWATER CONTROL DETAILS

PROFESSIONAL ENGINEER
No. 74706
DATE: 6/18/2014
SCHMAUS, DANIEL D.
P.E. NO. 74706


PROJECT NO. 6018-80153
FILE NAME: CD04SDDT

SHEET NO.

CD-4

PERMIT SUBMITTAL

OBLONG CORRUGATED SLOTTED
PIPING CONNECTION WITH GAS VENTING LINER

DETAIL  A

NTS C-7,C-8,C-9

LANDFILL GAS SHALLOW PASSIVE GAS VENT

DETAIL

NTS


C

C-7,C-8,C-9

SECTION 1
NTS

SECTION 2
NTS -

NOTE:
CLAMPS ARE OFFSET AND NOT ON TOP OF EACH OTHER.

PIPE PENETRATION SEALING BOOT
DETAIL 
NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS	

DESIGNED BY: _____ A. SONAWANE
DRAWN BY: _____ D. MOHLE
SHEET CHK'D BY: _____ J. McHUGH
CROSS CHK'D BY: _____ J. LADNER
APPROVED BY: _____ N. SCHMAUS
DATE: _____ JUNE 2014

**CDM
Smith**
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Tampa, FL 33607
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PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

LANDFILL GAS DETAILS

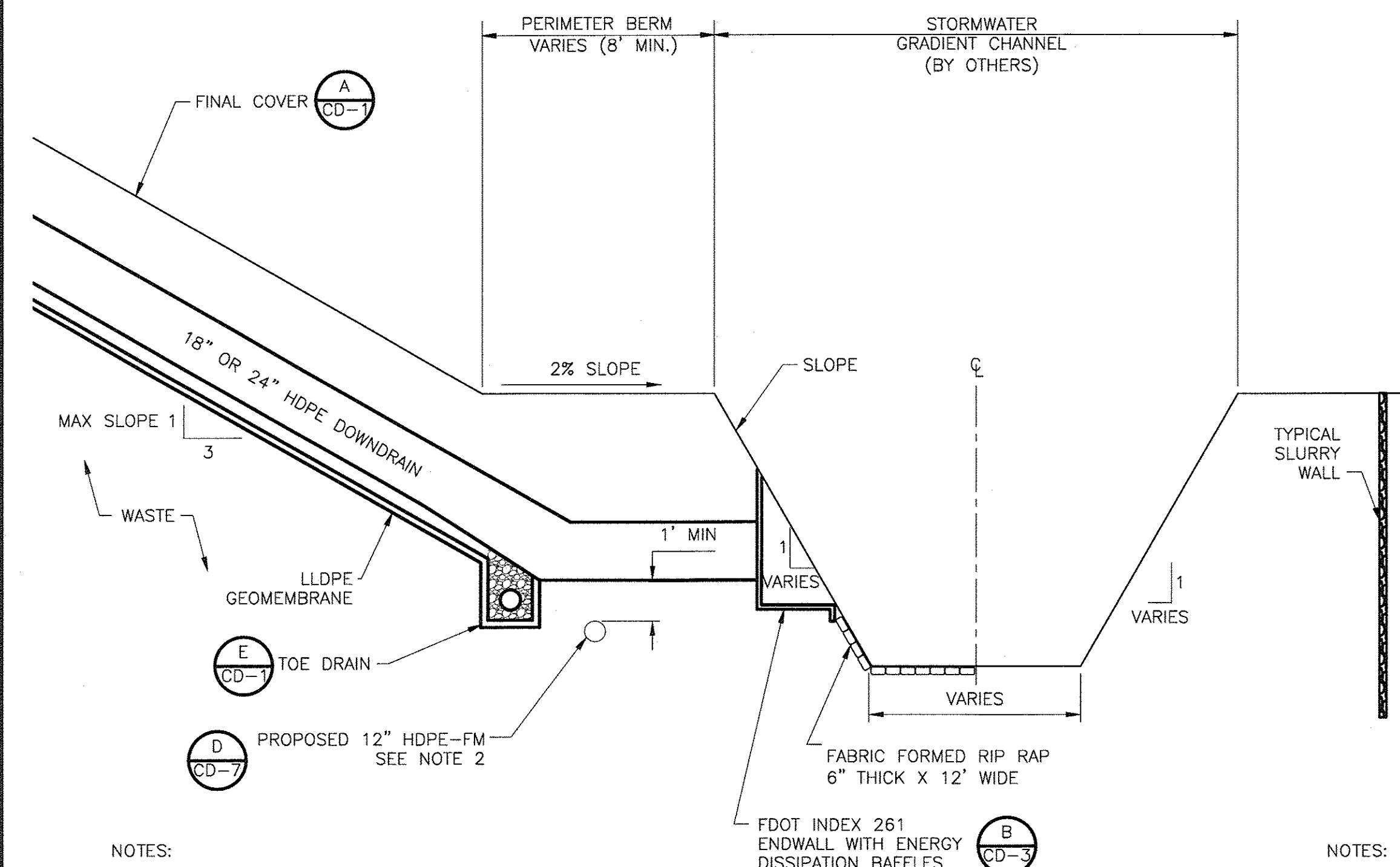
PROJECT NO.	6018-80153
FILE NAME:	CD05SDDT

SHEET NO.

CD-5

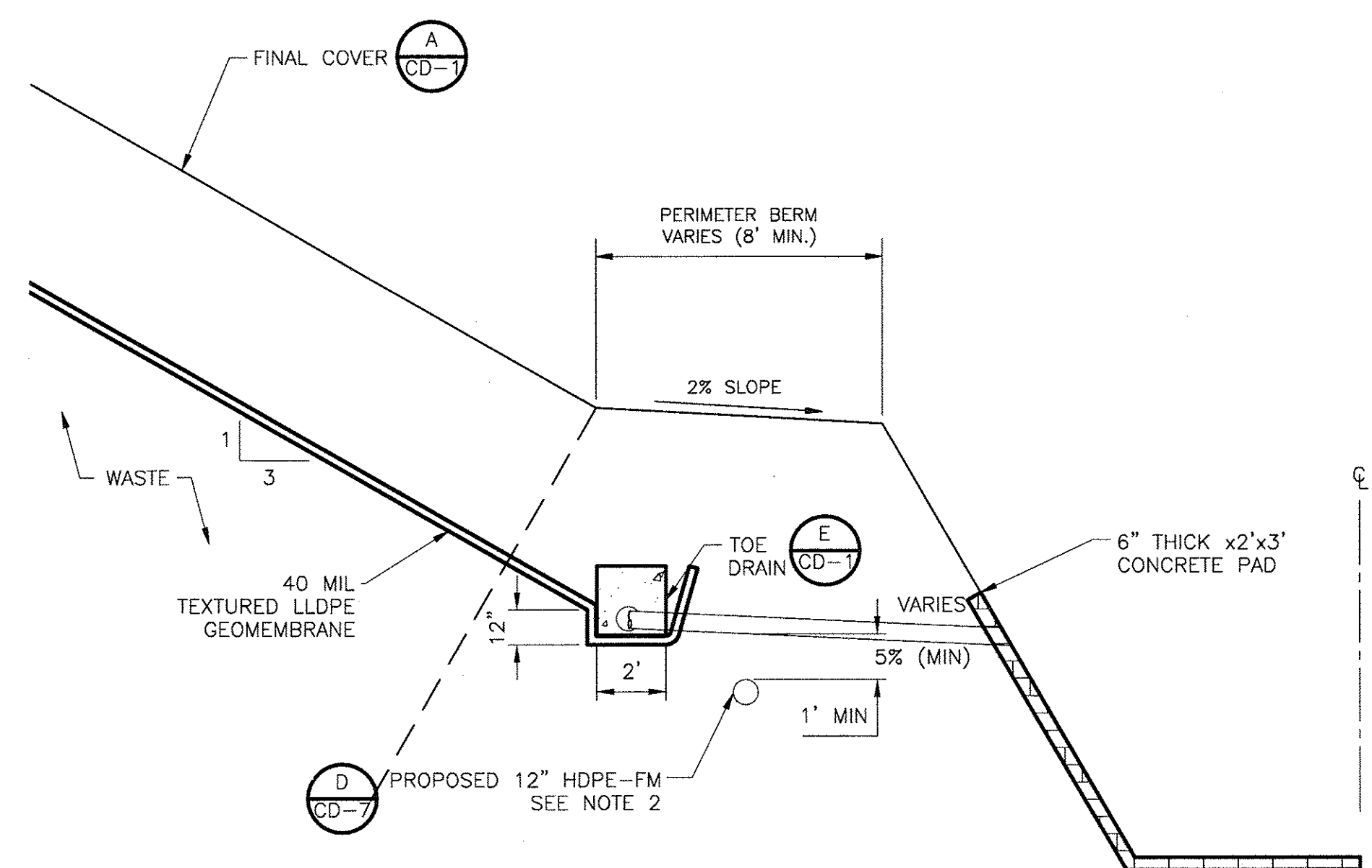
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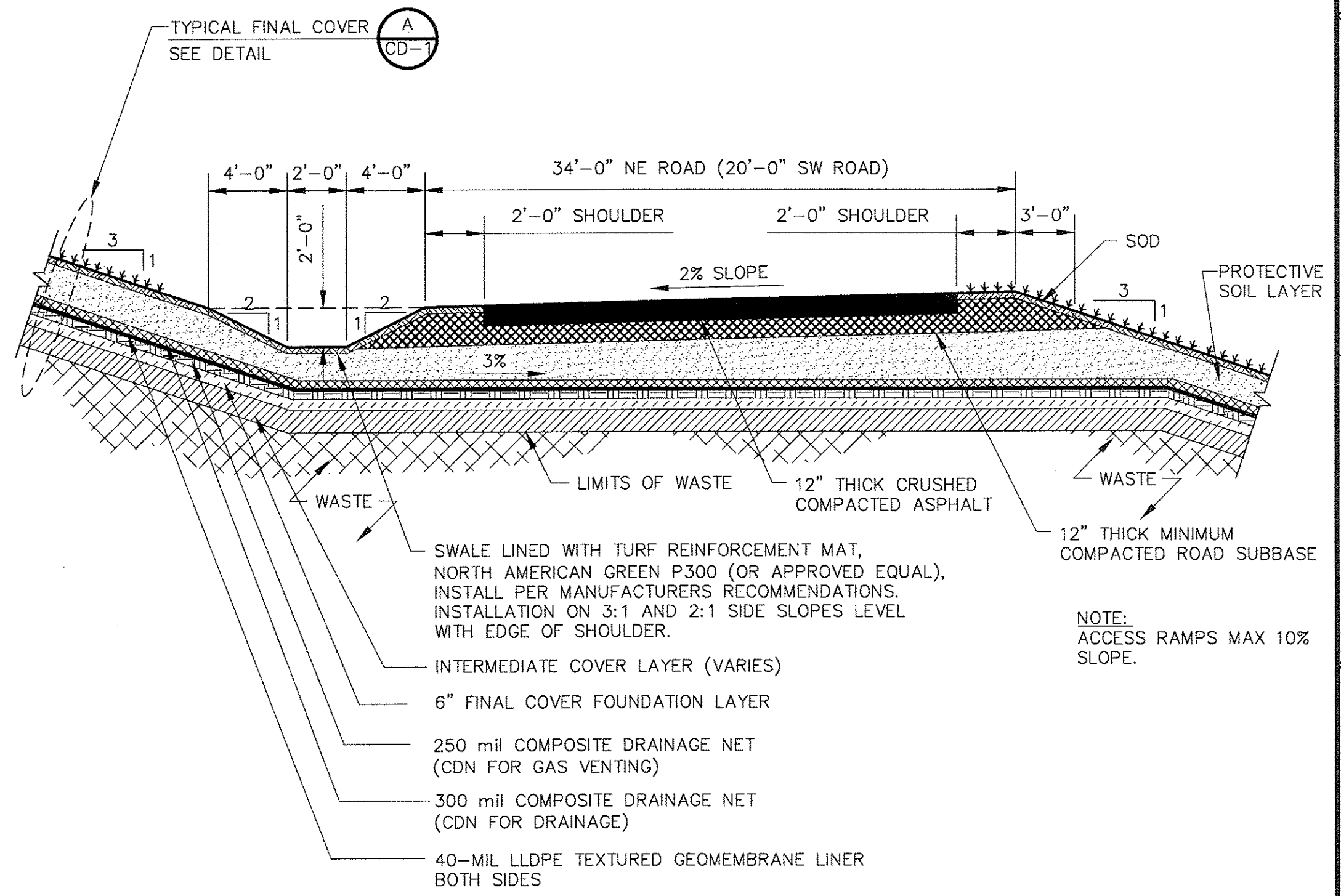
- NOTES:
- SEE DETAIL A ON SHEET CD-3 FOR THE TYPICAL BERM AND DOWNDRAIN OUTLET FOR ALONG THE 60-MIL GEOMEMBRANE LINED WEST SIDE DITCH.
 - IN LOCATION WHERE THE DOWNDRAIN CROSSES THE PROPOSED 12" HDPE FORCEMAIN, A MINIMUM OF 1 FOOT VERTICAL SEPARATION BETWEEN THE PIPES IS REQUIRED.

TYPICAL BERM AND DOWNDRAIN OUTLET
DETAIL A
NTS C-4,5,6

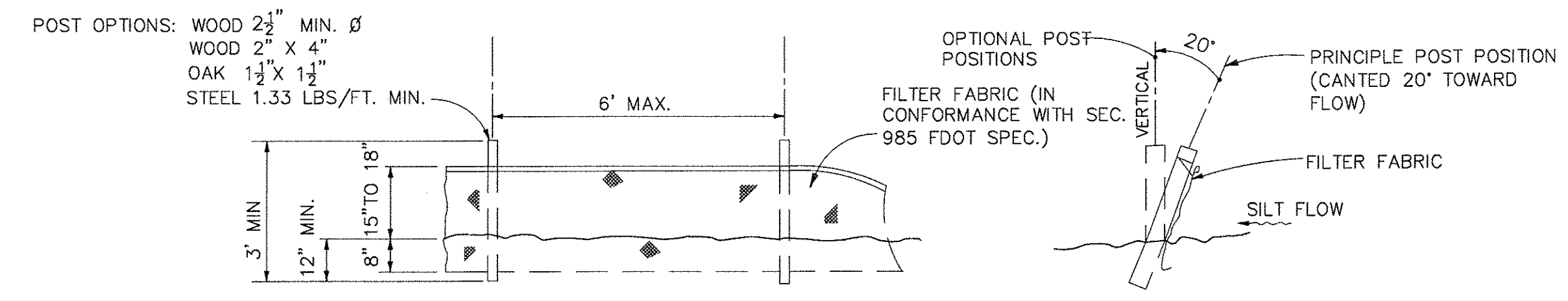


- NOTES:
- FABRIC FORMED RIPRAP IS NOT REQUIRED ALONG WEST SIDE DITCH WITH 60-MIL GEOMEMBRANE LINER.
 - IN LOCATIONS WHERE THE TOE DRAIN CROSSES THE PROPOSED 12" HDPE FORCEMAIN, A MINIMUM OF 1 FOOT VERTICAL SEPARATION BETWEEN THE PIPES IS REQUIRED.

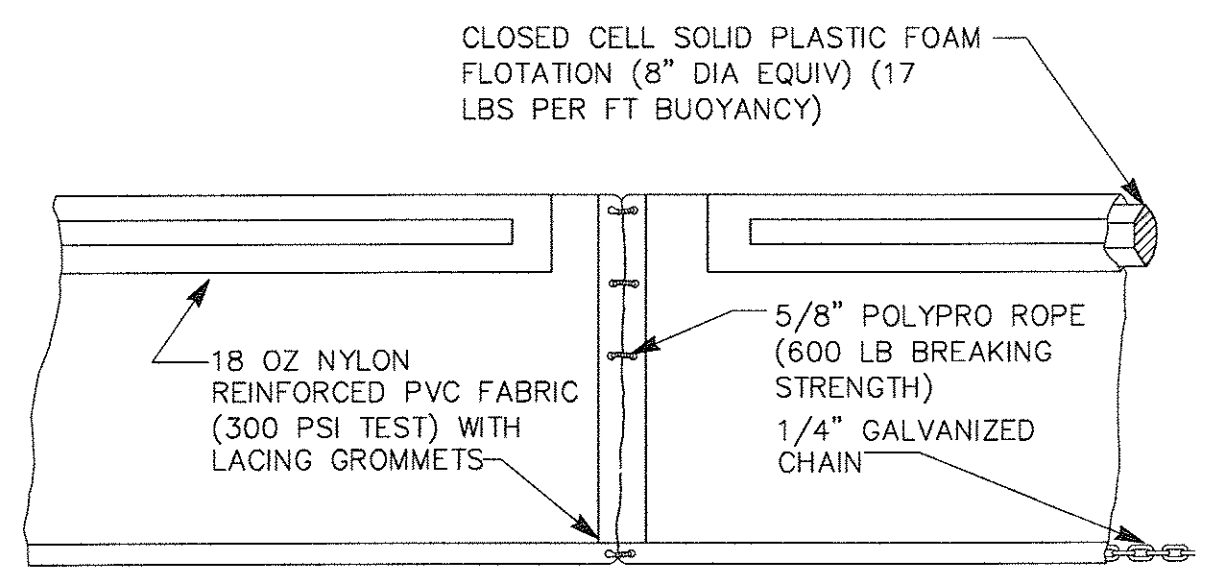
TYPICAL PERIMETER BERM & TOE DRAIN
DETAIL B
NTS C-4,5,6



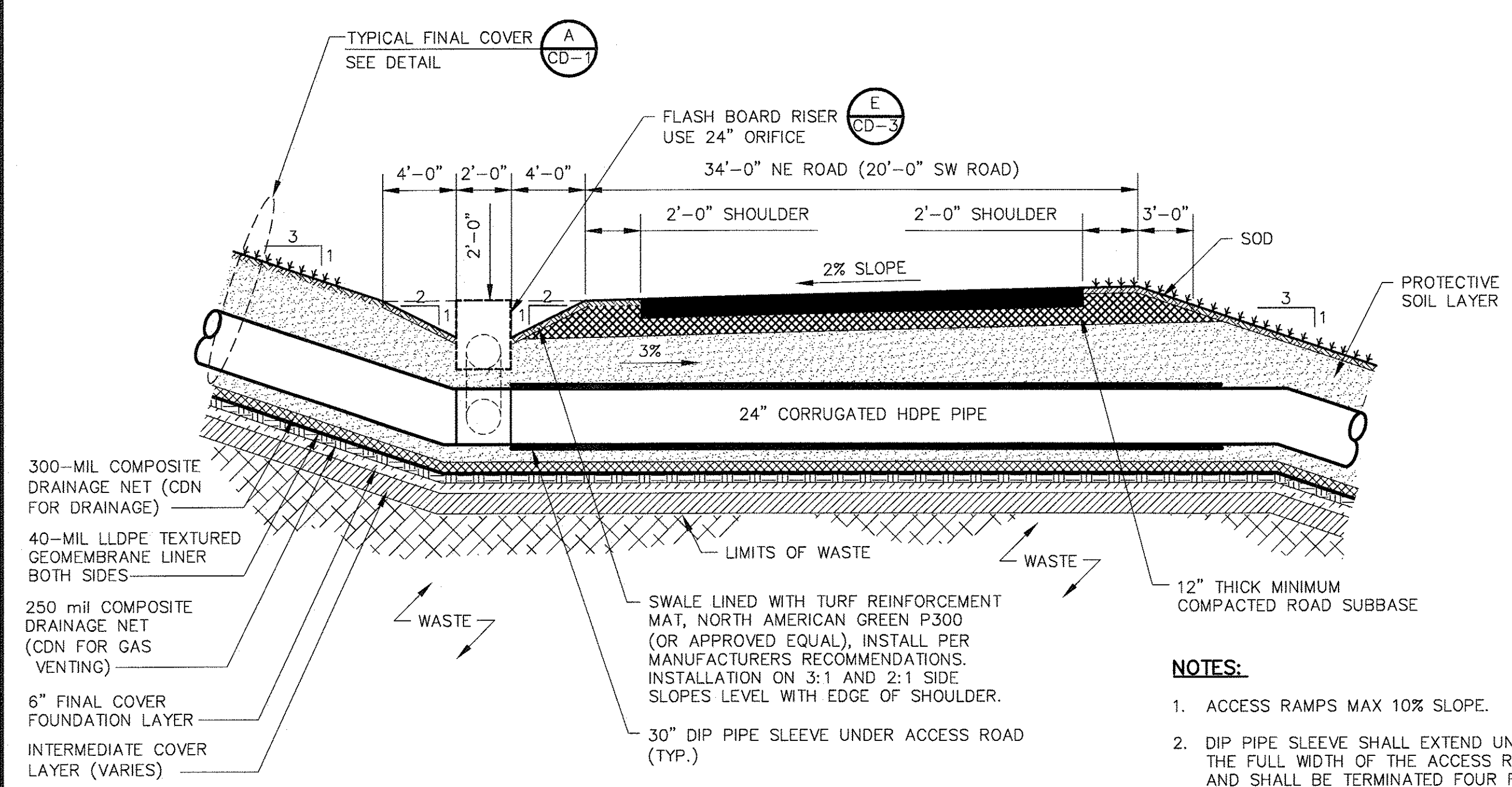
TYPICAL ACCESS ROAD WITHOUT 24" PIPE
DETAIL C
NTS C-4,C-6



FDOT 102 TYPE III SILT FENCE
DETAIL D
NTS

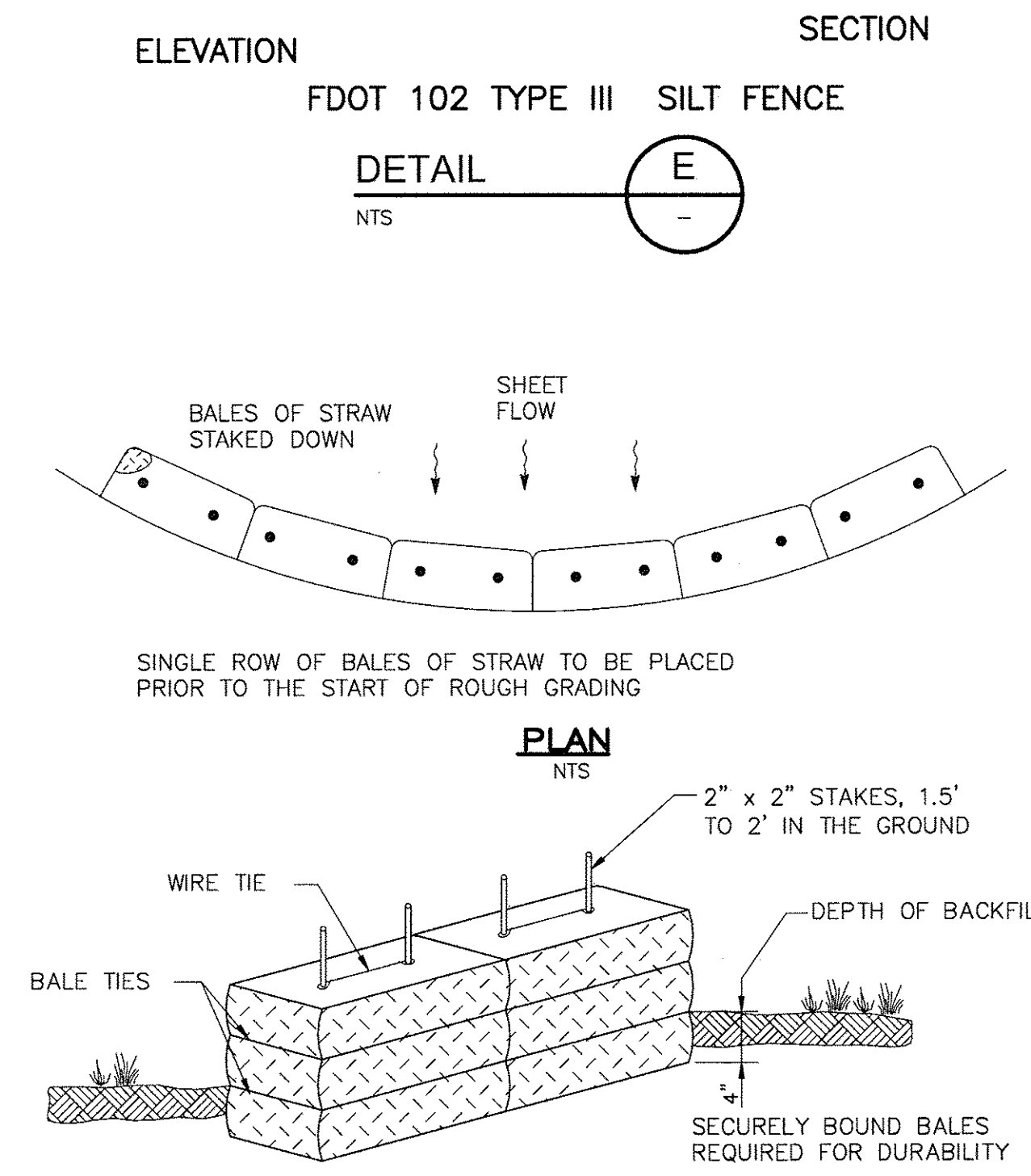


FDOT INDEX 103 TYPE II
FLOATING TURBIDITY BARRIER
DETAIL G
NTS



TYPICAL ACCESS ROAD WITH 24" PIPE
DETAIL D
NTS C-4,C-6

- NOTES:
- ACCESS RAMPS MAX 10% SLOPE.
 - DIP PIPE SLEEVE SHALL EXTEND UNDER THE FULL WIDTH OF THE ACCESS ROAD AND SHALL BE TERMINATED FOUR FEET BEYOND BOTH SHOULDERS. DIP PRESSURE CLASS 350.
 - FLASH BOARD RISER TO TIE INTO 24" CORRUGATED HDPE PIPE.



FDOT INDEX 102, TYPE II
TEMPORARY STRAW BALE SEDIMENT BARRIER
DETAIL F
NTS

REV.	DATE	DRWN	CHKD	REMARKS

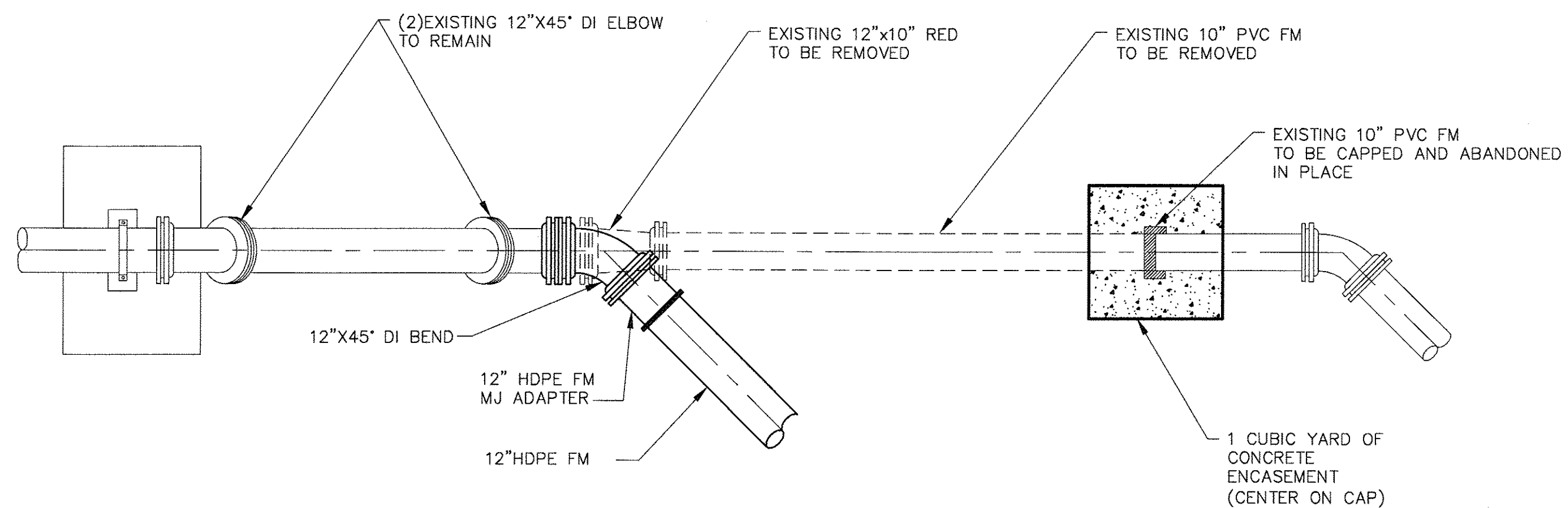
DESIGNED BY: A. SONAWANE
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. MEHUGH
CROSS CHK'D BY: J. LADNER
APPROVED BY: N. SCHMAUS
DATE: JUNE 2014

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

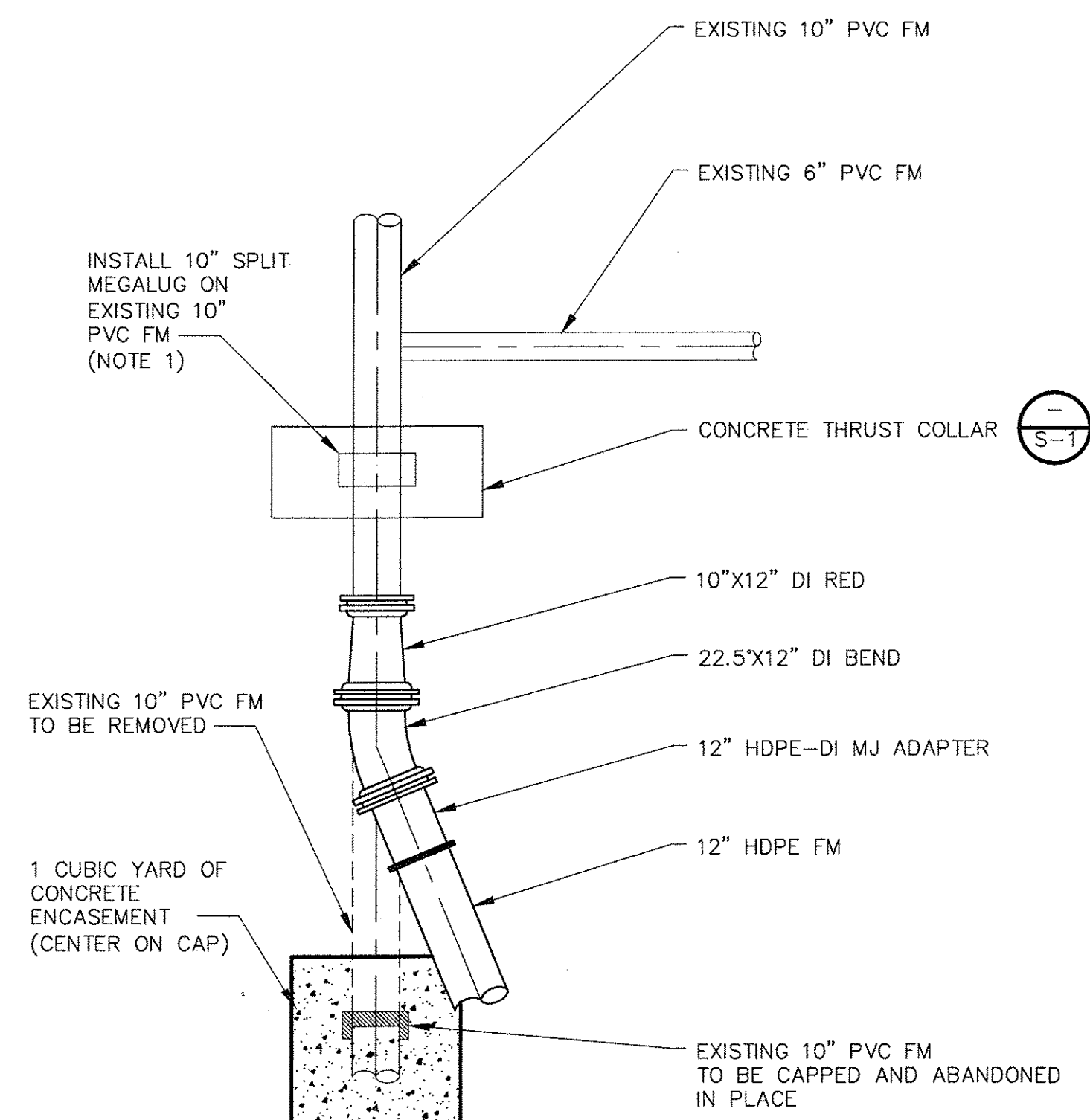
MISCELLANEOUS DETAILS

PROJECT NO. 6018-80153
FILE NAME: CD06SDOT
SHEET NO.
CD-6
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SOUTHWEST FORCEMAIN CONNECTION

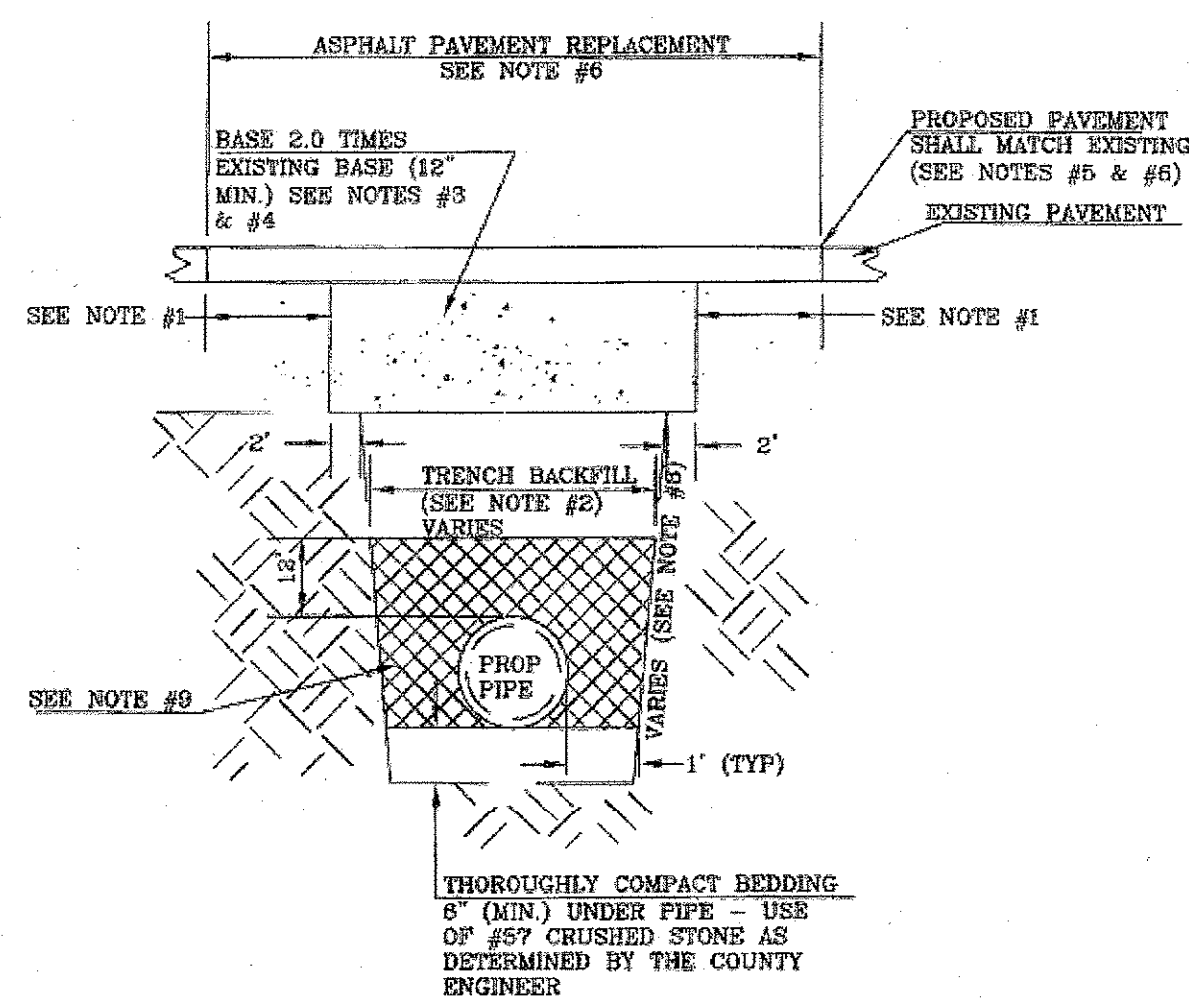
DETAIL A
NTS C-17



NORTH FORCEMAIN CONNECTION

DETAIL B
NTS C-18

- NOTES:
1. MILLING AND RESURFACING LIMITS: 3'-0" FOR RESIDENTIAL ROADWAYS; 25'-0" FOR ALL OTHER TYPES OF ROADWAYS.
 2. BACKFILL FOR TRENCH SHALL BE PLACED IN 6" COMPACTED LAYERS TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. (EXCAVATABLE FLOWABLE FILL OPTION IS SUBJECT TO COUNTY ENGINEER'S APPROVAL). TEST REPORTS ARE REQUIRED AND SHALL BE SUBMITTED TO PINELLAS COUNTY.
 3. BASE MATERIAL SHALL BE LIME ROCK OR CRUSHED CONCRETE (MIN. LBR 100) AND SHALL BE PLACED IN 6" COMPACTED LAYERS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 (MODIFIED) (TEST REPORTS ARE REQUIRED AND SHALL BE SUBMITTED TO PINELLAS COUNTY).
 4. AS AN ALTERNATIVE TO COMPACTED BASE AND IN WET AREAS, FULL-DEPTH ASPHALTIC CONCRETE, FINE TRAFFIC LEVEL C TYPES SP-9.5 OR 12.5, SHALL BE PLACED IN 2" COMPACTED LAYERS WITH A MINIMUM THICKNESS EQUAL TO THE EXISTING BASE (6" MIN.).
 5. ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE SAW-CUT AND ALL SURFACES TACK COATED.
 6. ASPHALT SURFACE SHALL BE CONSISTENT WITH EXISTING GRADE. IN ACCORDANCE WITH PINELLAS COUNTY SPECIFICATIONS, THE FOLLOWING ROADWAY CLASSIFICATION TYPE/THICKNESS ARE REQUIRED: ARTERIAL-3" MIN. TYPE SP-12.5 FINE TRAFFIC LEVEL "C"; COLLECTOR-2" MIN. TYPE SP-12.5 FINE TRAFFIC LEVEL "C"; RESIDENTIAL-1 1/2" MIN. TYPE SP-9.5 TRAFFIC LEVEL "C" (TEST REPORTS ARE REQUIRED AND SHALL BE SUBMITTED TO PINELLAS COUNTY).
 7. OVERLAY OF CONSTRUCTION SCARS TO PAVEMENT AND TRENCH SHALL BE REQUIRED AS DIRECTED BY THE COUNTY ENGINEER.
 8. EXCAVATION SHALL COMPLY WITH THE TRENCH SAFETY ACT REQUIREMENTS.
 9. INSTALL DRY COMPACTABLE MATERIAL AROUND THE PIPE.
 10. ALL MATERIAL, WORK AND TESTING SHALL MEET PINELLAS COUNTY STANDARD SPECIFICATIONS.
 11. CONTRACTOR SHALL RESTORE PAVEMENT TO MATCH THE GRADES THAT EXISTED PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY NECESSARY TO ENSURE THAT THIS REQUIREMENT IS MET SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.



PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
PAVEMENT CUTS, EXCAVATION AND
RESTORATION

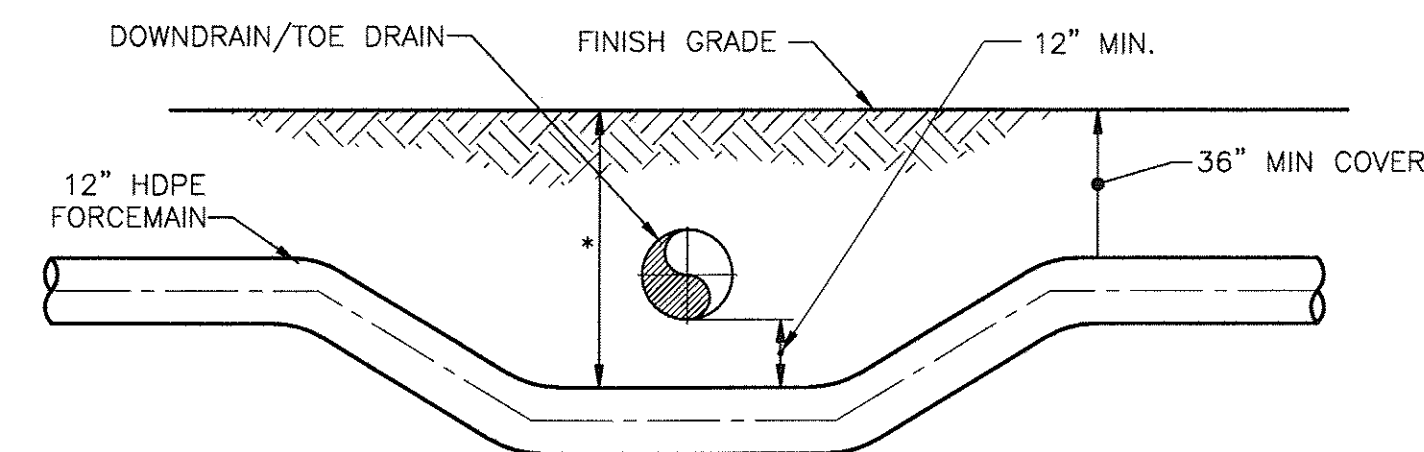
DETAIL INDEX 1-D-1
1291
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF ENGINEERING SUPPORT
REVISION:

PINELLAS COUNTY STANDARD DETAIL 1291

DETAIL C
NTS

NOTES:

1. MEGALUG ® SERIES 1500 SPLIT SERRATED RESTRAINT HARNESS OR APPROVED EQUAL.
2. ALL JOINTS SHALL BE RESTRAINED.
3. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING FORCEMAIN SYSTEM MUST BE KEPT IN OPERATION AT ALL TIMES. WHERE CONNECTIONS ARE MADE TO EXISTING MAINS OR OTHER SHUTDOWNS ARE NECESSARY, PERMISSION MUST BE OBTAINED AND ARRANGEMENTS MUST BE MADE WITH THE UTILITIES DEPARTMENT FOR REMOVING FROM SERVICE THOSE MAINS THAT WILL BE AFFECTED. SHUTDOWN MUST BE HELD TO A MINIMUM IN BOTH NUMBER AND DURATION. BYPASS PUMPING AND HAULING OPERATIONS MAY BE REQUIRED TO INTERRUPT SERVICE.
4. NO VALVE OR OTHER CONTROL DEVICES ON THE EXISTING FORCEMAIN SYSTEM SHALL BE OPERATED BY THE CONTRACTOR WITHOUT FIRST OBTAINING APPROVAL FROM THE UTILITIES DEPARTMENT. THE CONTRACTOR SHALL, AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE, SHALL NOTIFY THE COUNTY OF THE STARTING TIME AND DURATION OF SUCH INTERRUPTION.
5. CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION ACTIVITIES THAT MAY DAMAGE THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.
6. THE CONTRACTOR SHALL PROTECT THE EXISTING FORCEMAIN UNTIL THE NEW FORCEMAIN IS OPERATIONAL.



*DEFLECT FORCEMAIN AS REQUIRED TO MAINTAIN MINIMUM INDICATED SEPARATION BETWEEN FORCEMAIN AND DOWNDRAIN/TOE DRAINS

FORCEMAIN UTILITY CROSSING

DETAIL D
NTS

DATE: 8/28/2012
SCHMAUS, MATTHEW D.
P.E. NO. 74706

PROJECT NO. 6018-80153
FILE NAME: CD06SDDT

SHEET NO.

CD-7

PERMIT SUBMITTAL

CDM
Smith

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FL COA No. EB-0000020

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF SOLID WASTE
SIDE SLOPE CLOSURE - BRIDGEWAY ACRES
CLASS I LANDFILL
PROJECT NO. 1792

FORCEMAIN RELOCATION DETAILS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: N. SCHMAUS
DRAWN BY: D. MOHLE
SHEET CHK'D BY: C. MONTGOMERY
CROSS CHK'D BY: A. SONAWANE
APPROVED BY: A. SONAWANE
DATE: JUNE 2014

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