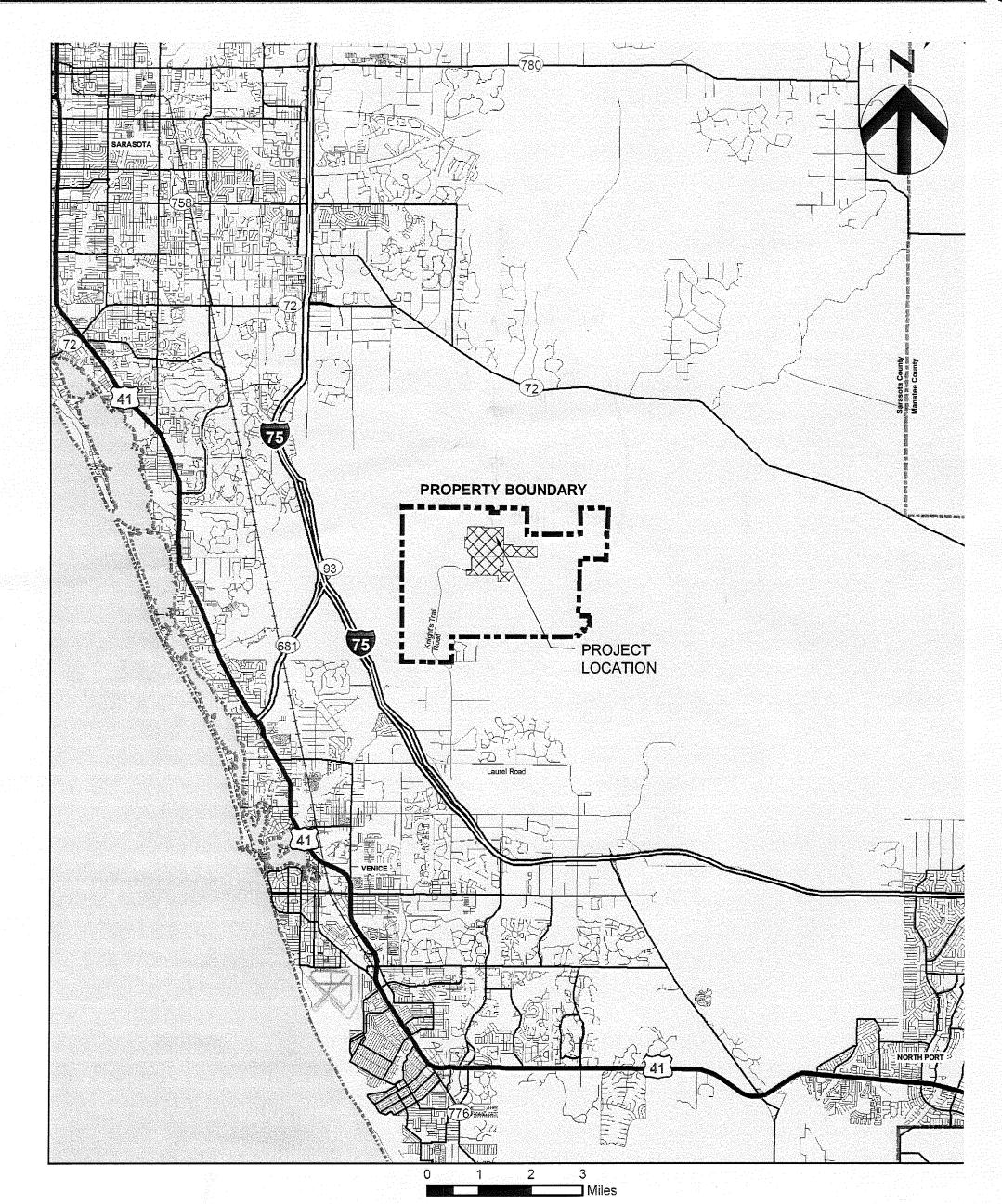


HDR Engineering, Inc. 2621 Cattlemen Road, Suite 106 Sarasota, FL 34232-62121 (941) 342-2700 CA00004213

Sarasota County



Permit Drawings For

Phase I Class I Landfill Closure

Central County Solid Waste Disposal Complex

Project No. 096-125174-002

Sarasota County, Florida CIP No. 95206

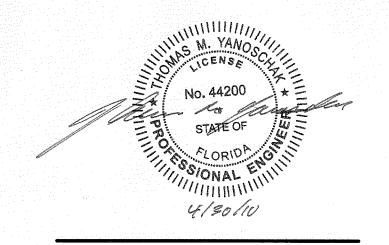
Issued for Approval APRIL 2010

INDEX OF DRAWINGS

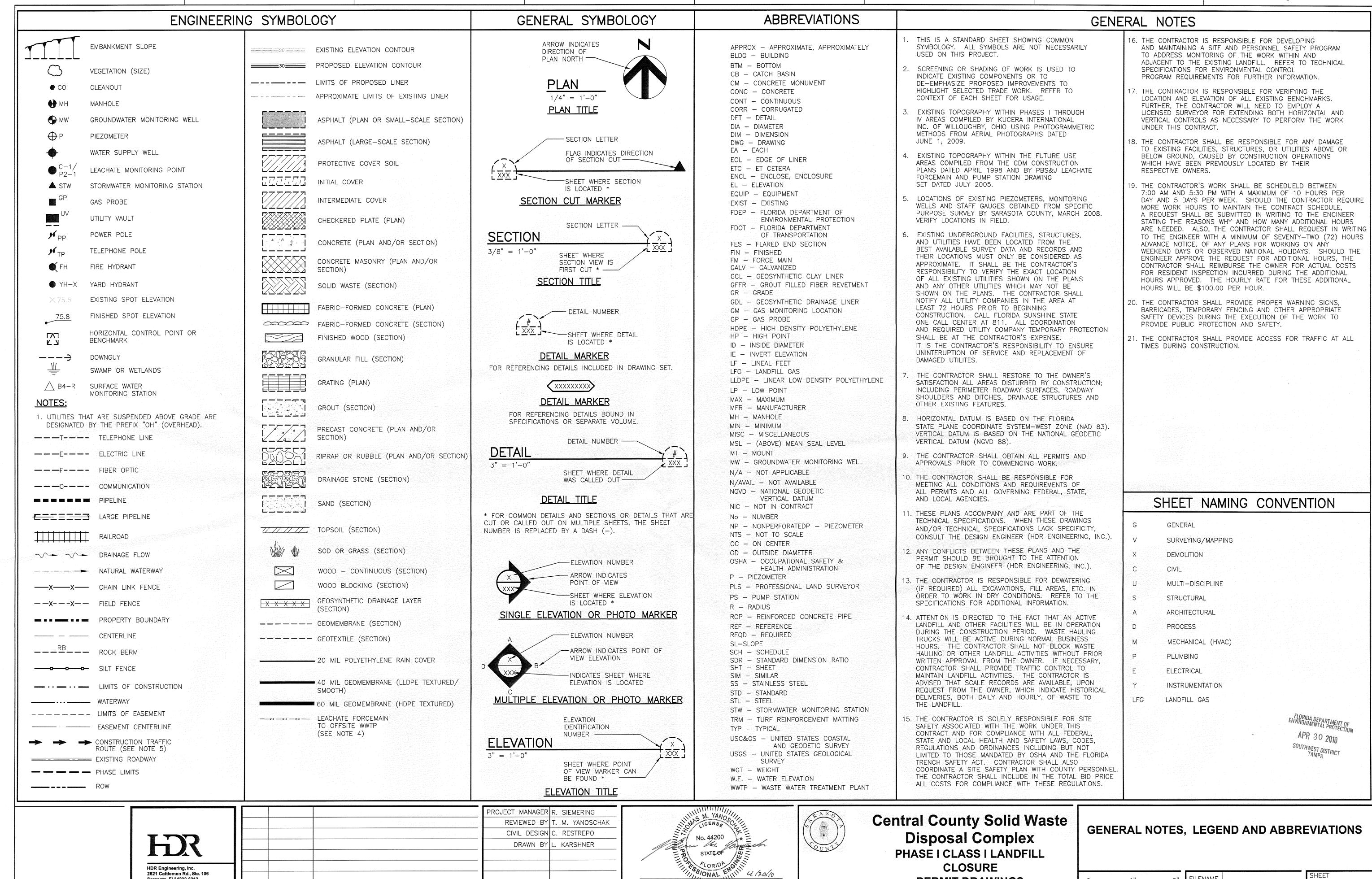
00G-01	COVER SHEET
00G-02	GENERAL NOTES, LEGEND AND ABBREVIATIONS
SITE WO	RK
00C-01	OVERALL SITE PLAN AND PHASING PLAN
00C-02	BORROW AREA MAP (1 OF 2)
00C-03	BORROW AREA MAP (2 OF 2)
00C-04	EXISTING SITE CONDITIONS
00C-05	PHASE I FINAL BUILD-OUT
00C-06	PHASE I CLOSURE COVER KEY SHEET
00C-07	PLAN AND PROFILE PHASE I ACCESS ROAD
00C-08	PHASE I CROSS SECTIONS
00C-09	PHASE I CLOSURE DETAILS
00C-10	PHASE I CLOSURE DETAILS
00C-11	PHASE I CLOSURE DETAILS
00C-12	PHASE I CLOSURE DETAILS
00C-13	PHASE I TEMPORARY FINAL COVER AND ANCHOR TRENCH PLAN
00C-14	PHASE I TEMPORARY FINAL COVER ANCHOR TRENCH SECTIONS AND DETAILS
00C-15	PHASE I TEMPORARY FINAL COVER ANCHOR TRENCH SECTIONS AND DETAILS
00C-16	PHASE I TEMPORARY FINAL COVER ANCHOR TRENCH SECTIONS AND DETAILS
00C-17	PHASE I TEMPORARY FINAL COVER CLOSURE DETAILS
00C-18	PHASE I TEMPORARY FINAL COVER CLOSURE DETAILS
00C-19	PHASE I TEMPORARY FINAL COVER CLOSURE DETAILS
00C-20	PHASE I TEMPORARY FINAL COVER CLOSURE DETAILS

00C-21 SEDIMENTATION AND EROSION CONTROL PLAN
00C-22 SEDIMENTATION AND EROSION CONTROL DETAILS



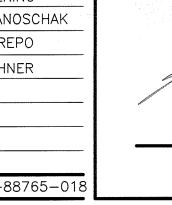


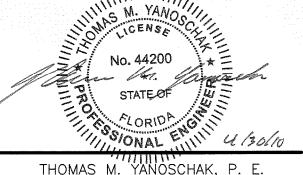
THOMAS M. YANOSCHAK, P.E. CERTIFICATE NO. 44200



Sarasota, Fl 34232-6212 (941) 342-2700

ISSUED FOR APPROVAL 4/2010 DESCRIPTION PROJECT NUMBER 001916-88765-01 DATE

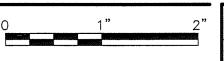




CERTIFICATE NO. 44200

SARASOTA COUNTY

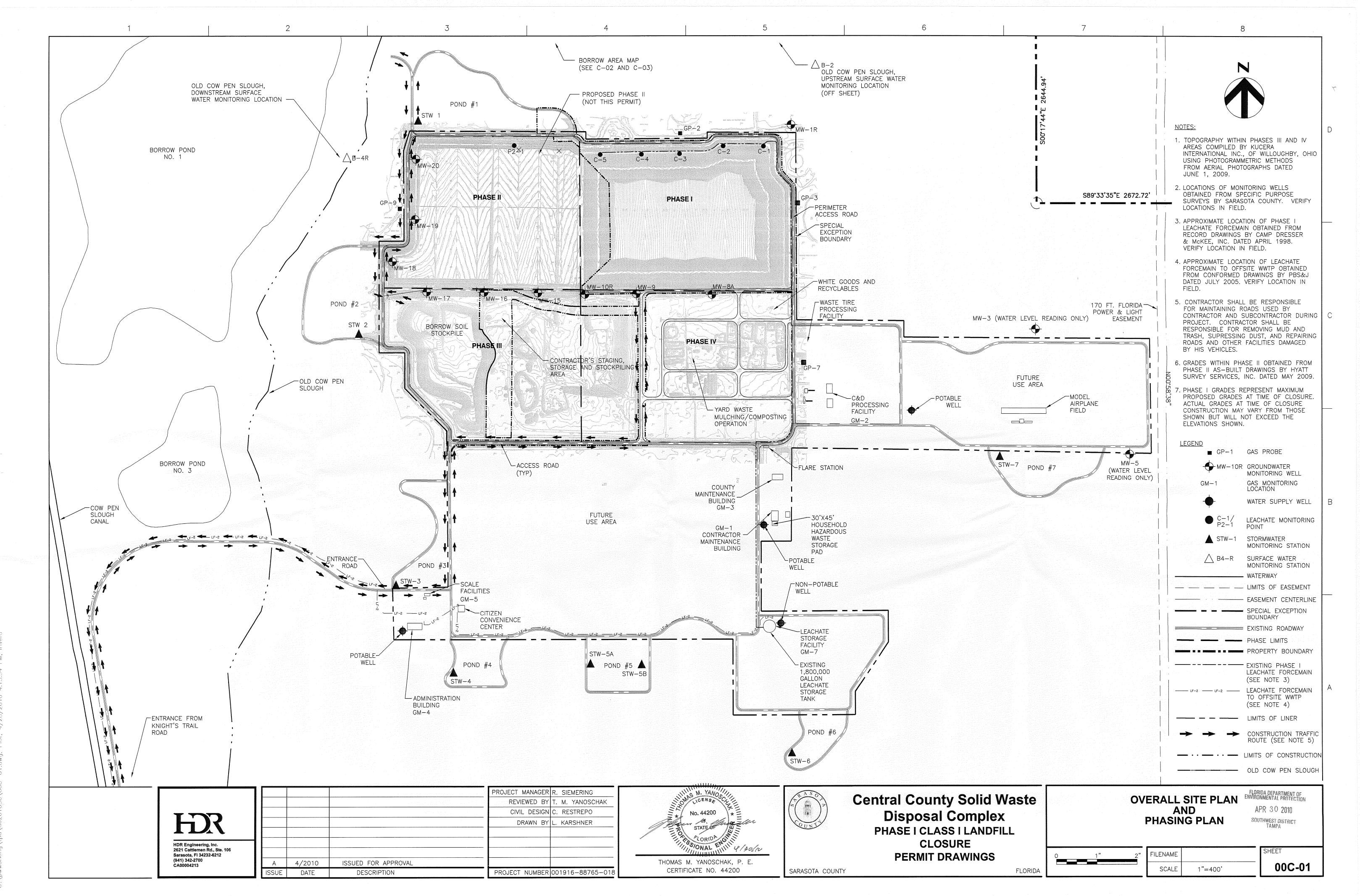
PERMIT DRAWINGS



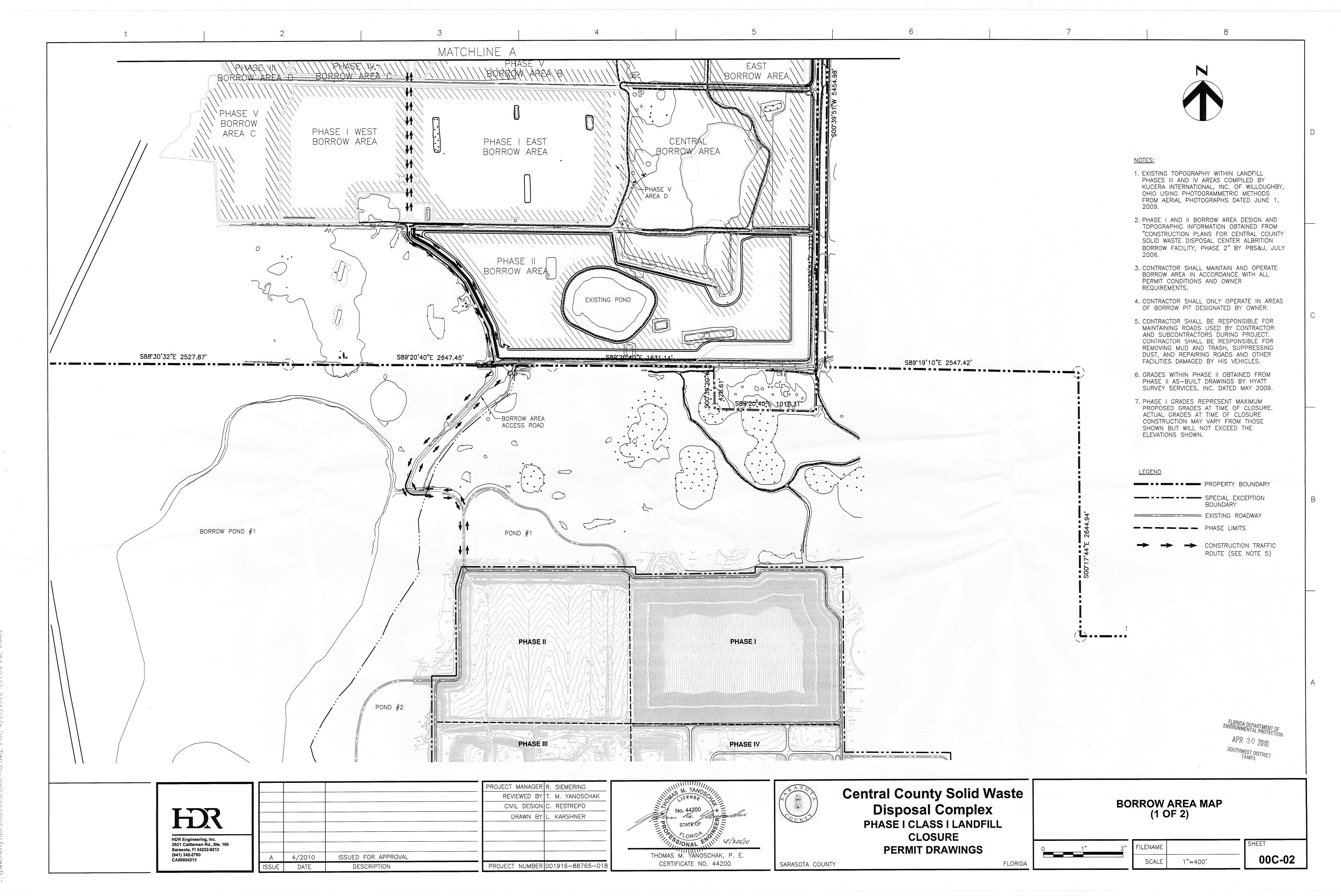
FLORIDA

FILENAME SCALE AS SHOWN

00G-02



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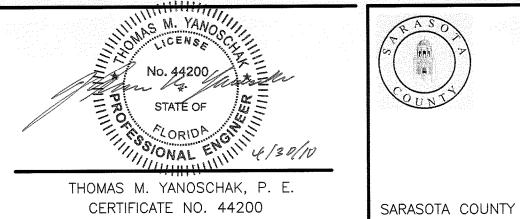
- 1. EXISTING TOPOGRAPHY WITHIN LANDFILL PHASES III AND IV AREAS COMPILED BY KUCERA INTERNATIONAL, INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED JUNE 1,
- 2. PHASE I AND II BORROW AREA DESIGN AND TOPOGRAPHIC INFORMATION OBTAINED FROM "CONSTRUCTION PLANS FOR CENTRAL COUNTY SOLID WASTE DISPOSAL CENTER ALBRITION BORROW FACILITY, PHASE 2" BY PBS&J,
- 3. PHASE III BORROW AREA DESIGN AND TOPOGRAPHIC INFORMATION OBTAINED FROM "CONSTRUCTION PLANS FOR CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX BORROW FACILITY - PHASE III" BY PBS&J, OCTOBER
- 4. PHASE IV BORROW AREA DESIGN AND TOPOGRAPHIC INFORMATION OBTAINED FROM "CONSTRUCTION PLANS FOR CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX BORROW FACILITY — PHASE IV" BY PBS&J, SEPTEMBER 2008.
- 5. CONTRACTOR SHALL MAINTAIN AND OPERATE BORROW AREA IN ACCORDANCE WITH ALL PERMIT CONDITIONS AND OWNER
- 6. CONTRACTOR SHALL ONLY OPERATE IN AREAS OF BORROW PIT DESIGNATED BY OWNER.
- MAINTAINING ROADS USED BY CONTRACTOR AND SUBCONTRACTORS DURING PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING MUD AND TRASH, SUPRESSING DUST, AND REPAIRING ROADS AND OTHER FACILITIES DAMAGED BY HIS VEHICLES.

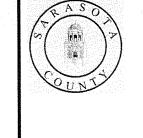
PROPERTY BOUNDARY SPECIAL EXCEPTION BOUNDARY EXISTING ROADWAY CONSTRUCTION TRAFFIC ROUTE (SEE NOTE 6)

> FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION APR 30 2010 SOUTHWEST DISTRICT

HIR HDR Engineering, Inc. 2621 Cattlemen Rd., Ste. 106 Sarasota, Fl 34232-6212 (941) 342-2700

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		t star		PROJECT MANAGER	R. SIEMERING
				REVIEWED BY	T. M. YANOSCHAK
				CIVIL DESIGN	C. RESTREPO
				DRAWN BY	L. KARSHNER
Α	4/2010	ISSUED FOR APPROVAL			
ISSUE	DATE	DESCRIPTION		PROJECT NUMBER	001916-88765-018



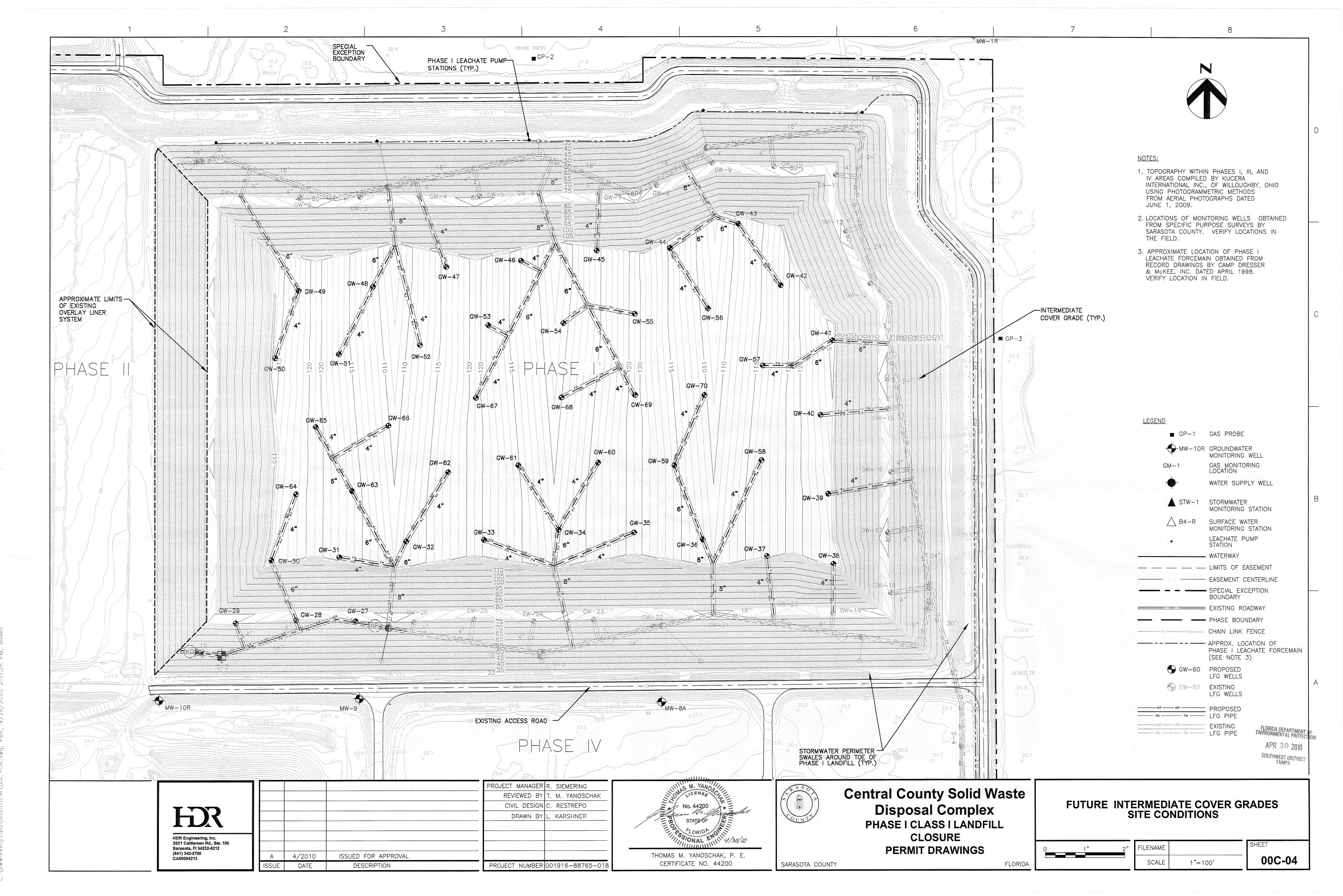


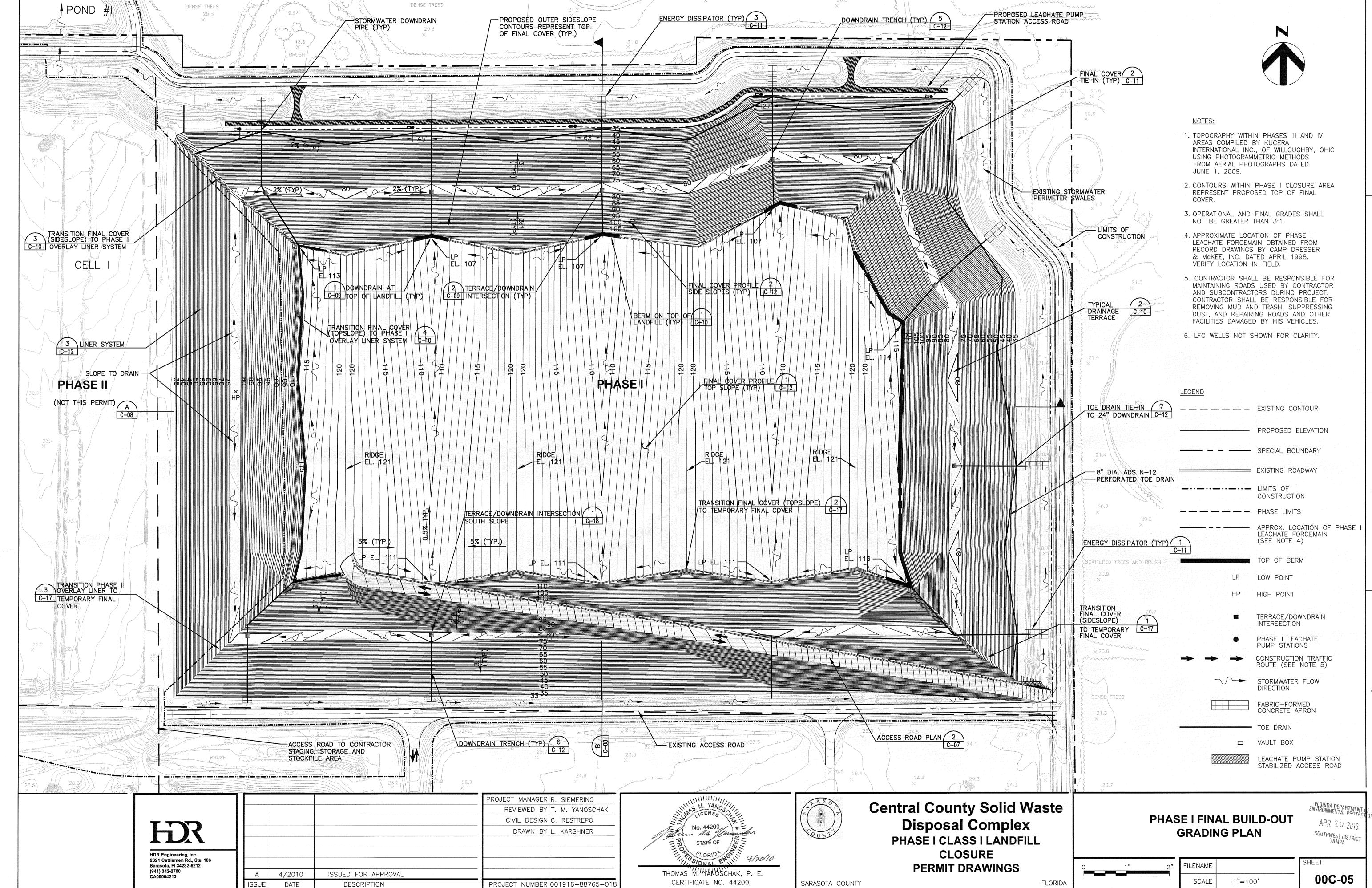
Central County Solid Waste Disposal Complex PHASE I CLASS I LANDFILL CLOSURE **PERMIT DRAWINGS**

FLORIDA

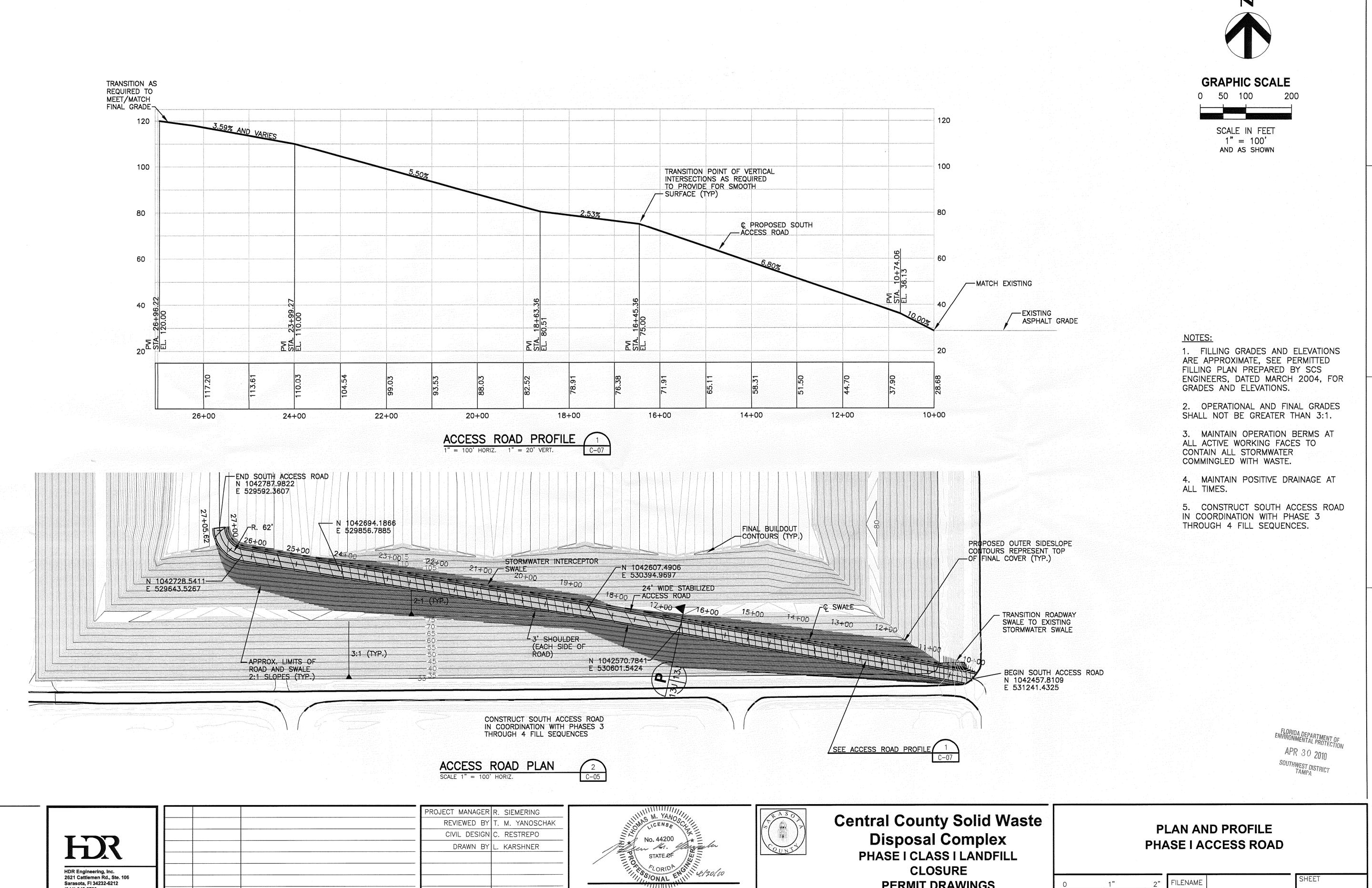
BORROW AREA MAP (2 OF 2)

SCALE | 1"=400'









THOMAS M. YANOSCHAK, P. E.

SARASOTA COUNTY

CERTIFICATE NO. 44200

PROJECT NUMBER 001916-88765-01

(941) 342-2700

4/2010

DATE

ISSUED FOR APPROVAL

DESCRIPTION

FLORIDA

PERMIT DRAWINGS

FILENAME SCALE AS SHOWN

VALLEY - EL. VALLEY - EL. -VARIES VALLEY - EL. _VARIES VARIES-TOP OF FINAL COVER -RIDGE EL. 121 RIDGE EL. 121 -RIDGE EL. 121 -RIDGE EL. 121 125.00 TACK ON SOIL TACK ON SOIL -BERM (TYP.) PROPOSED OUTER SIDESLOPE
CONTOURS REPRESENT TOP -INTERMEDIATE 105.00 OF FINAL COVER (TYP.) 20' WIDE 20' WIDE STORMWATER STORMWATER TERRACE TERRACE SWALE SWALE ----85.00 75.00 65.00 55.00 45.00 35.00 MEET EXIST. GRADE (TYP.) 25.00 GRADE (TYP.) 4+00 6+00 8+00 10+00 12+00 14+00 16+00 18+00 20+00 22+00 2+00

> PROPOSED OUTER SIDESLOPE CONTOURS REPRESENT TOP OF FINAL COVER (TYP.) TACK ON SOIL BERM (TYP.) COVER -TACK ON SOIL -BERM (TYP.) 0.5% SLOPE 115.00 AND VARIES 105.00 30' WIDE ACCESS RD. 95.00 20' WIDE STORMWATER TERRACE 20' WIDE STORMWATER TERRACE -INTERMEDIATE 85.00 COVER -SWALE -75.00 65.00 55.00 10' WIDE PROPOSED LEACHATE PUMP - STATION ACCESS ROAD 45.00 35.00 - MEET EXIST. GRADE (TYP.) MEET EXIST.—GRADE (TYP.) 25.00 6+00 10+00 12+00 14+00 8+00 2+00 4+00 SECTION B

NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV AREAS COMPILED BY KUCERA INTERNATIONL INC., OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED JUNE 1, 2009.

GRAPHIC SCALE

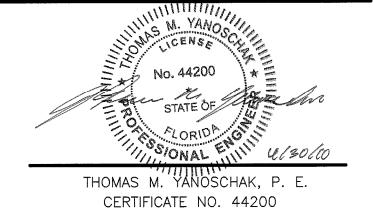
SCALE IN FEET 1" = 100'

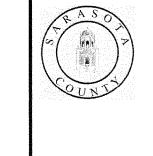
- 2. FILLING GRADES AND ELEVATIONS ARE APPROXIMATE, SEE PERMITTED FILLING PLAN PREPARE BY SCS ENGINEERS, DATED MARCH 2004, FOR GRADES AND ELEVATIONS.
- 3. OPERATIONAL AND FINAL GRADES SHALL NOT BE GREATER THAN 3:1.
- 4. MAINTAIN OPERATION BERMS AT ALL ACTIVE WORKING FACES TO CONTAIN ALL STORMWATER COMMINGLED WITH WASTE.
- 5. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION APR 30 2010

HOR HDR Engineering, Inc. 2621 Cattlemen Rd., Ste. 106 Sarasota, Fl 34232-6212 (941) 342-2700

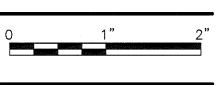
			PROJECT MANAGER R. SIEMERING
			REVIEWED BY T. M. YANOSCHAK
			CIVIL DESIGN C. RESTREPO
			DRAWN BY L. KARSHNER
Α	4/2010	ISSUED FOR APPROVAL	
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER 001916-88765-018





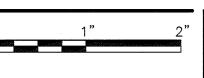
SARASOTA COUNTY

Central County Solid Waste Disposal Complex PHASE I CLASS I LANDFILL **CLOSURE PERMIT DRAWINGS**

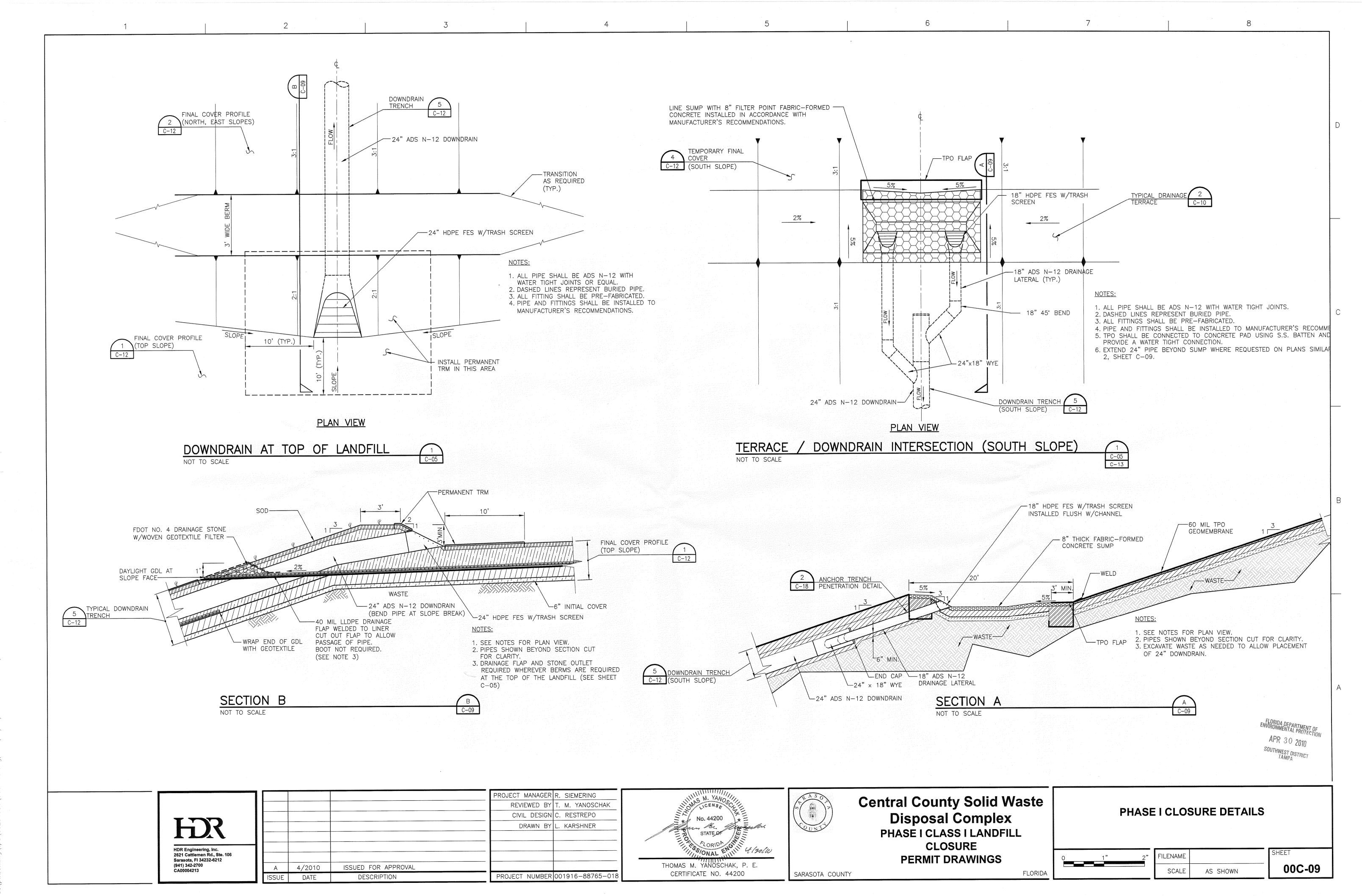


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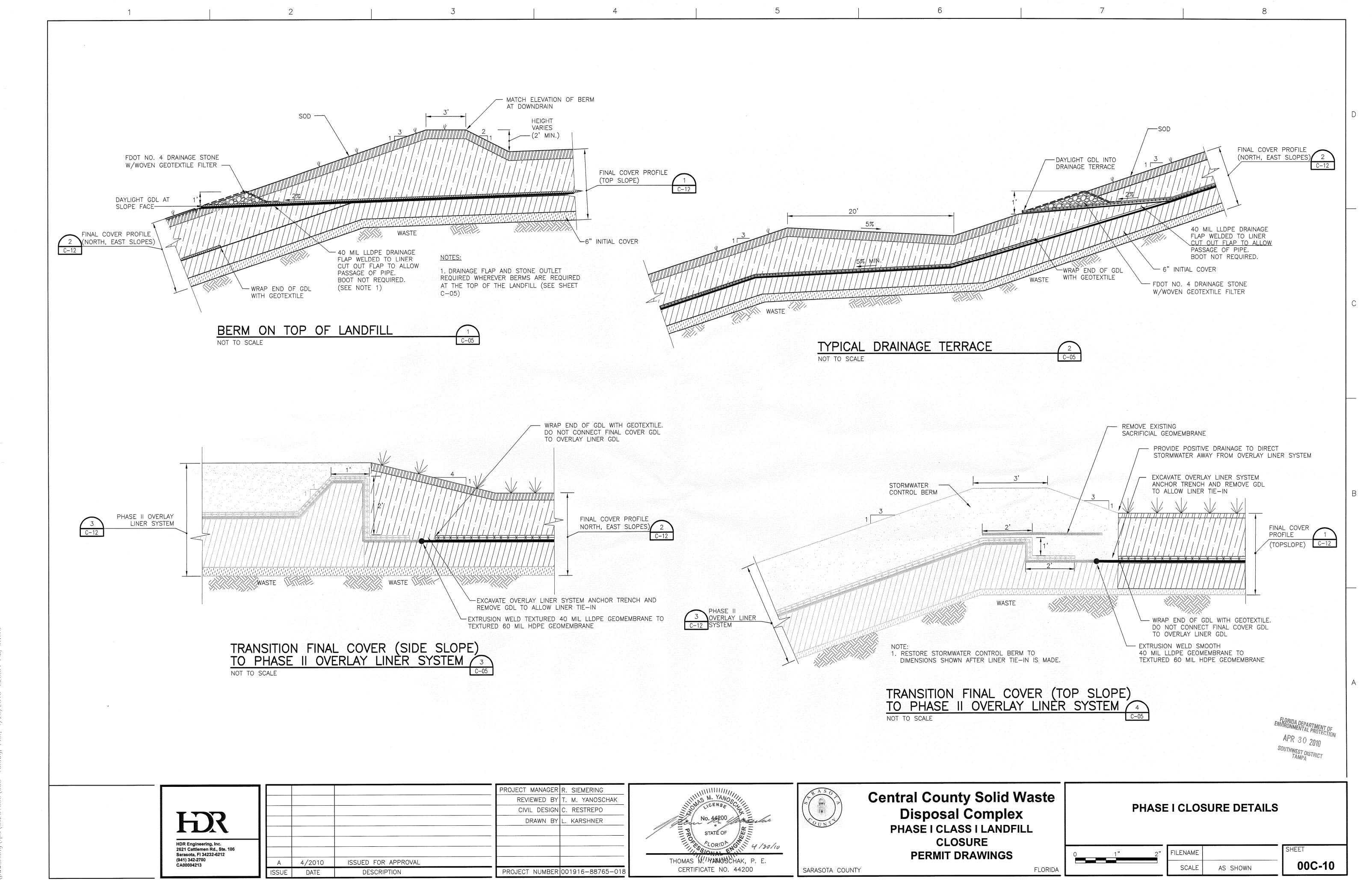
PHASE I CROSS SECTIONS



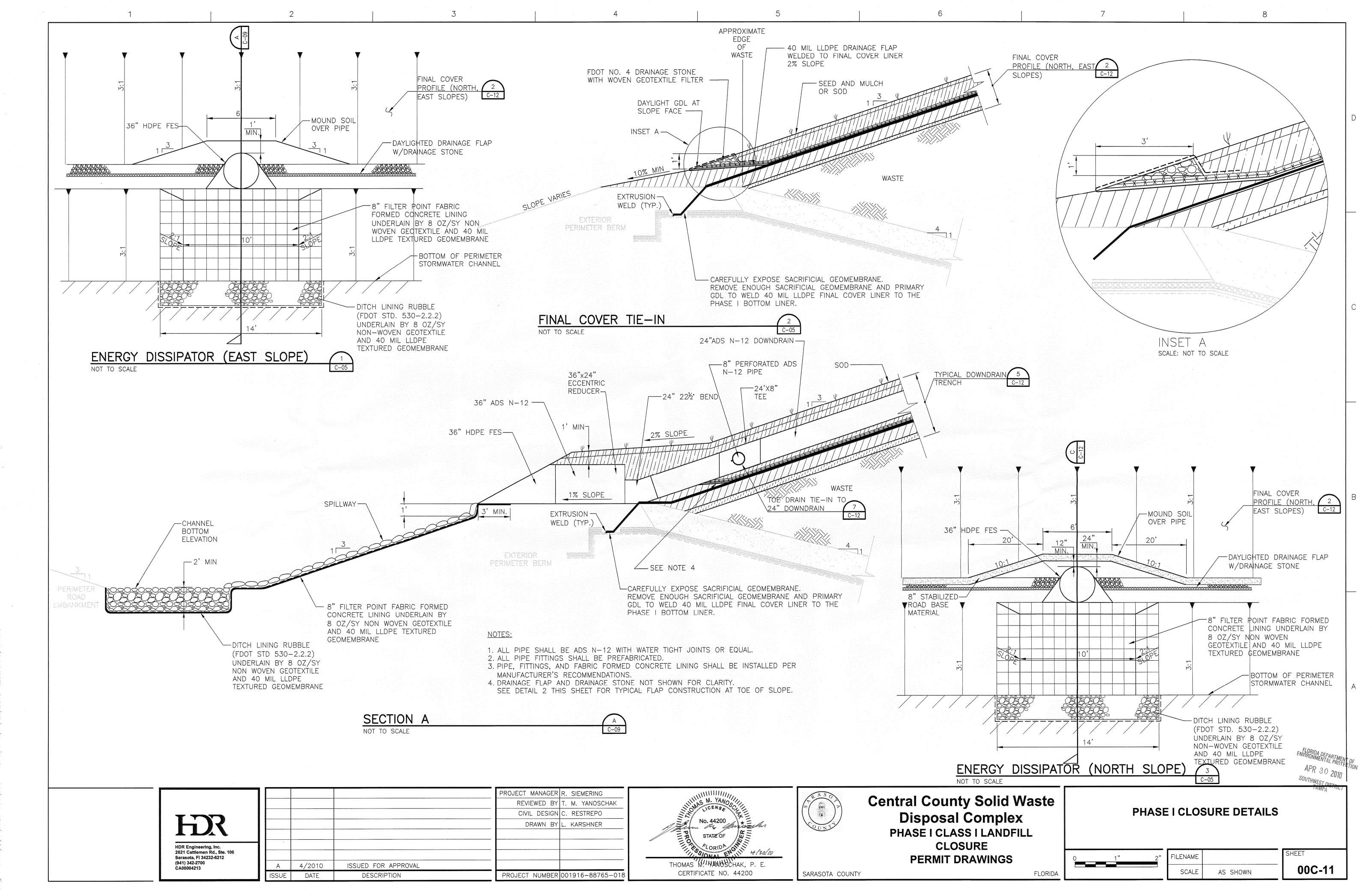
FILENAME AS SHOWN SCALE



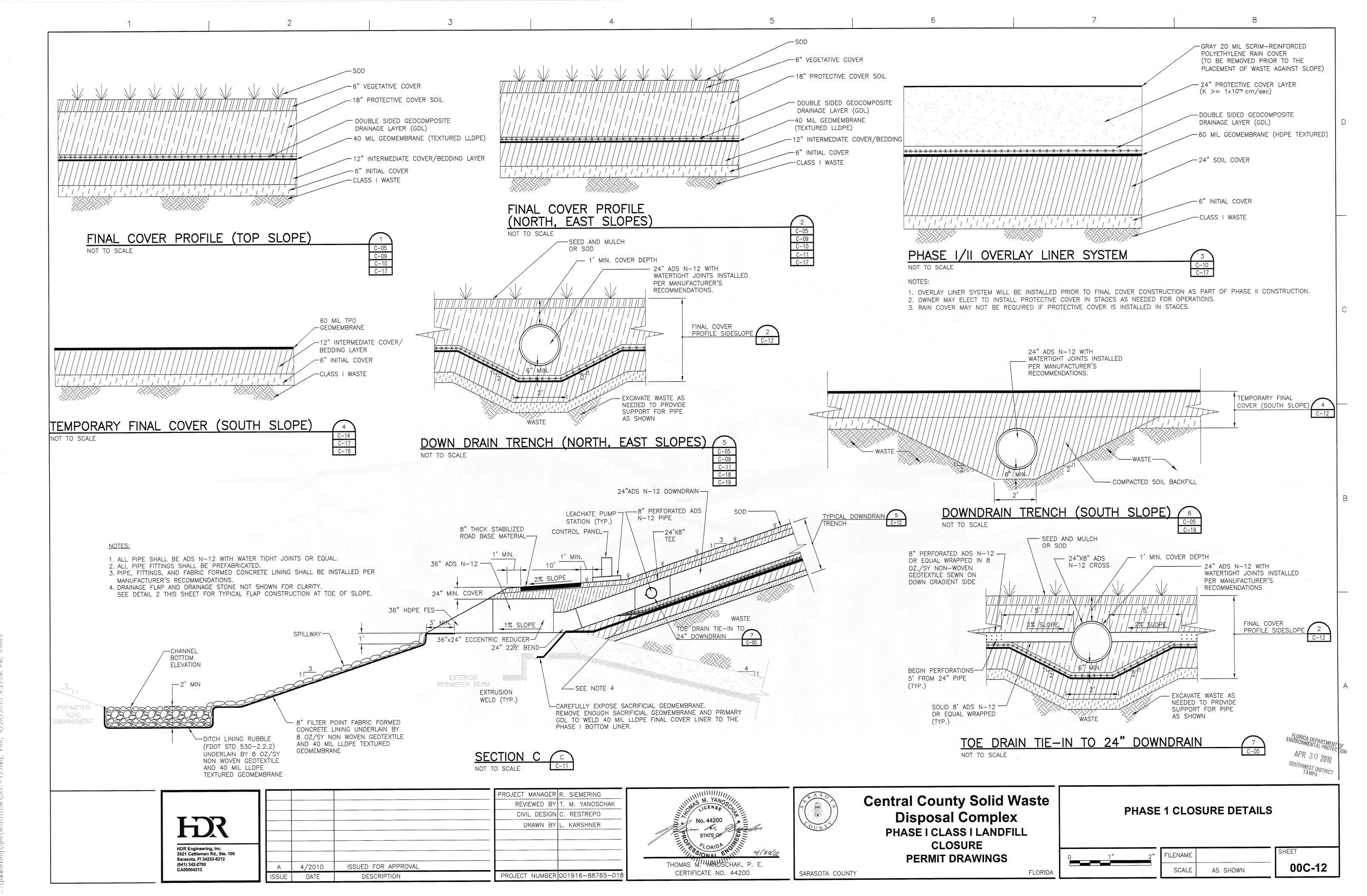
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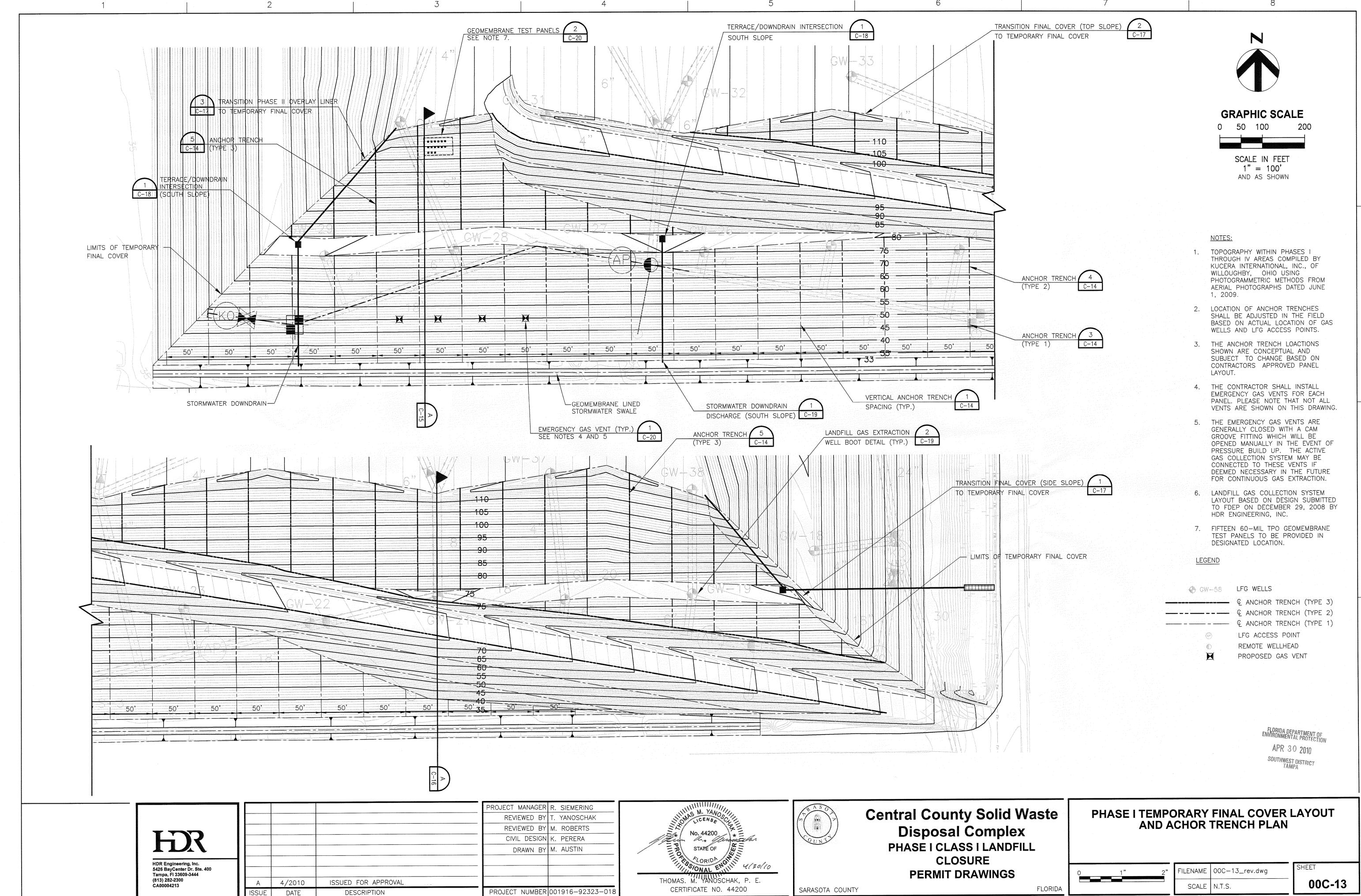
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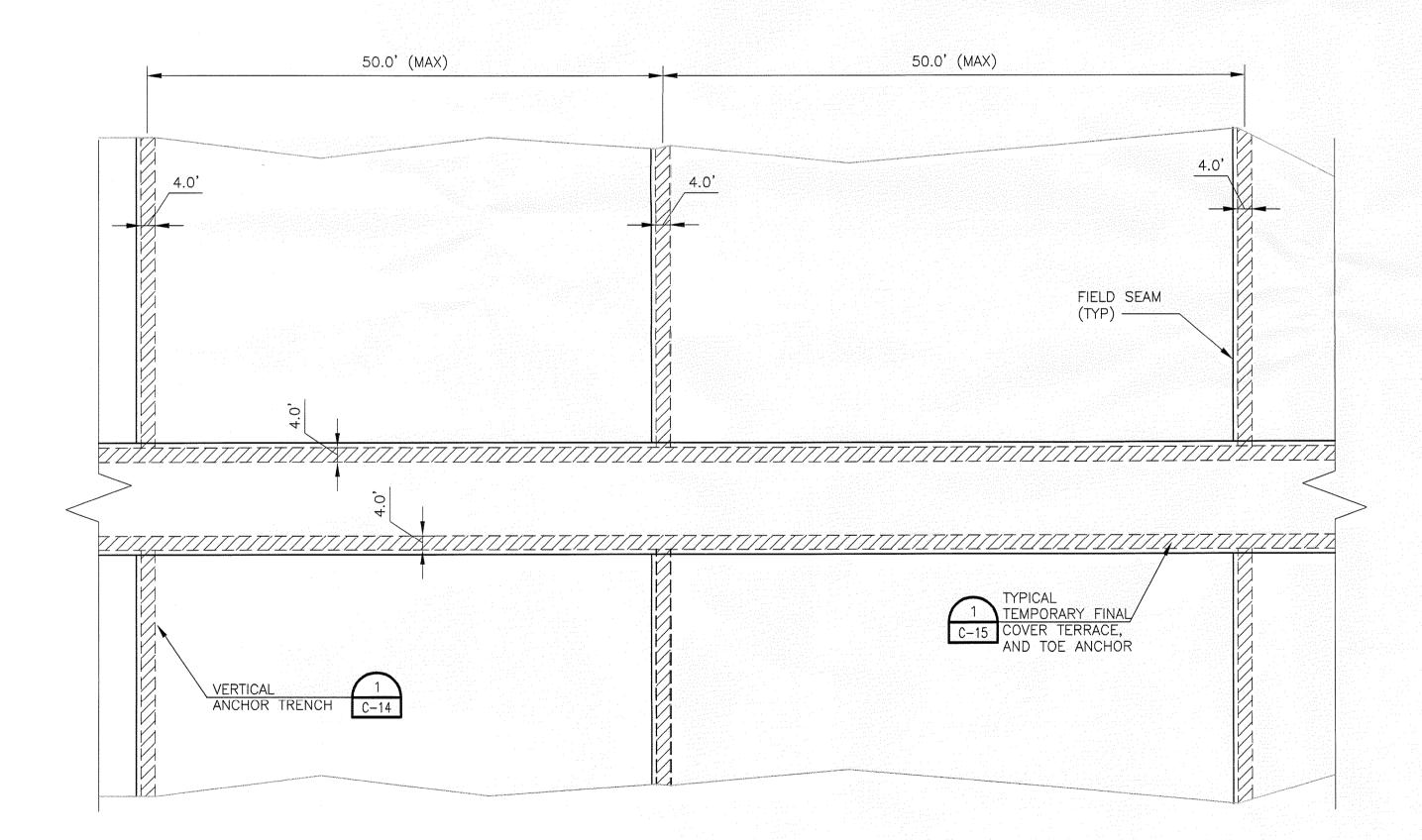
V 1 1 100040EC\000 40 1 1 1 1 4 /00 /0040 4 03.06 DM



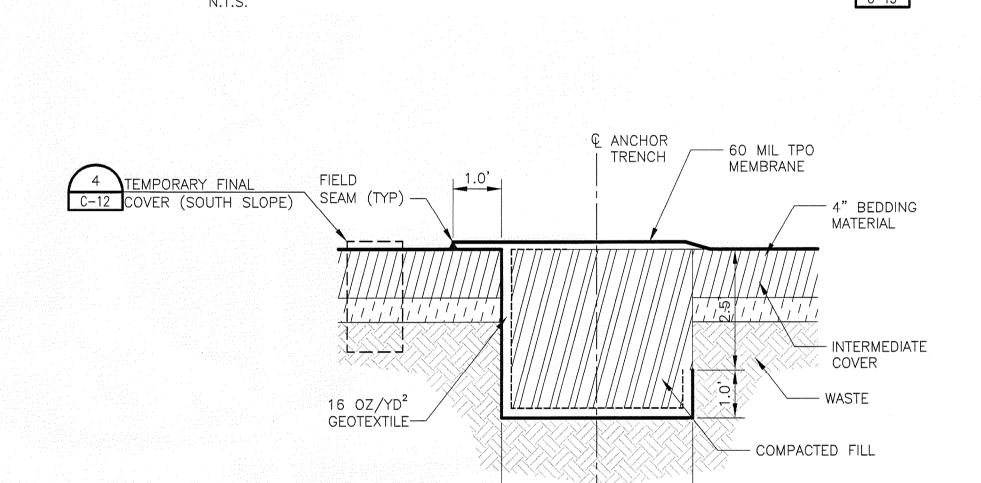
VERTICAL ANCHOR TRENCH SPACING

NOTES:

- 1. MAXIMUM CENTER TO CENTER DISTANCE OF VERTICAL ANCHOR TRENCHES SHALL NOT EXCEED 50 FT. ON 3:1 SIDESLOPES. HORIZONTAL ANCHOR TRENCHES SHOWN IN THE 2:1 SIDESLOPES SHALL NOT EXCEED 25 FT IN THE UPPER 1/3 OF SIDESLOPE AND 32 FT BELOW THE UPPER 1/3 OF THE SIDESLOPE.
- 2. THE CENTER TO CENTER DIMENSIONS SHOWN ARE CONCEPTUAL AND SUBJECT TO CHANGE BASED ON CONTRACTORS APPROVED PANEL LAYOUT.
- 3. DURING INSTALLATION OF TEMPORARY FINAL COVER (INCLUDING HORIZONTAL AND VERTICAL TRENCHES) THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF OPEN TRENCHES FOR ODOR AND STORMWATER CONTROL.
- 4. CONSTRUCTION ACTIVITIES SHALL BE SEQUENCED TO ALLOW GEOMEMBRANE TO BE PLACED IN THE ANCHOR TRENCH IMMEDIATELY FOLLOWING THE EXCAVATION OF THE ANCHOR
- 5. AS SOON AS CONSTRUCTION QUALITY ASSURANCE (CQA) PERSONNEL HAVE APPROVED THE DIMENSIONS, ALL OPEN TRENCHES SHALL BE BACKFILLED WITH SOIL AT THE END OF THE DAY.
- 6. CONTRACTOR SHALL USE CLEAN BACKFILL FOR ANCHORS. ANY SOLID WASTE REMOVED DURING EXCAVATION MUST BE PROPERLY DISPOSED OF IN ADJACENT ACTIVE LANDFILL CELL.
- 7. WEDGE WELD END OF GEOMEMBRANE PANEL TO BEGINNING OF NEW GEOMEMBRANE PANEL AND CONTINUE DOWNSLOPE. FLAP OF WEDGE WELD TO BE ON TOP IN THE DOWNSLOPE
- 8. WELDS CONNECTING DOWNSLOPE SHEETS SHALL BE DOUBLE WEDGE WELDS, AND SHALL HAVE A MINIMUM 10 FT. VERTICAL OFFSET BETWEEN ADJACENT PANEL WELDS.
- 9. HOT ARC WELDS SHALL BE USED ONLY WHEN WEDGE WELDS ARE NOT FEASIBLE.
- 10. SEE SHEET OOC-13 FOR PLACEMENT OF TYPE 1, 2, AND 3 ANCHOR TRENCHES FOR VERTICAL ANCHOR TRENCHES.



TYPICAL ANCHORING PLAN



© ANCHOR

4.0'

ANCHOR TRENCH (TYPE 1) - 3-FT DEPTH 3

TRENCH

SEAM (TYP)-

16 OZ/YD² GEOTEXTILE—

COMPACTED FILL

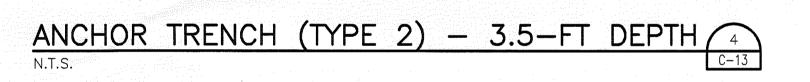
C-12 COVER (SOUTH SLOPE)

- 60 MIL TPO

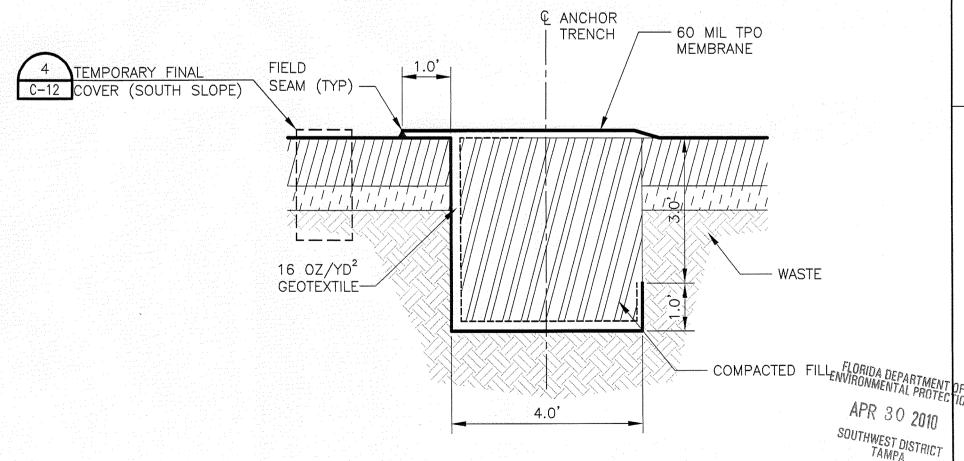
MEMBRANE

- 12" INTERMEDIATE

COVER

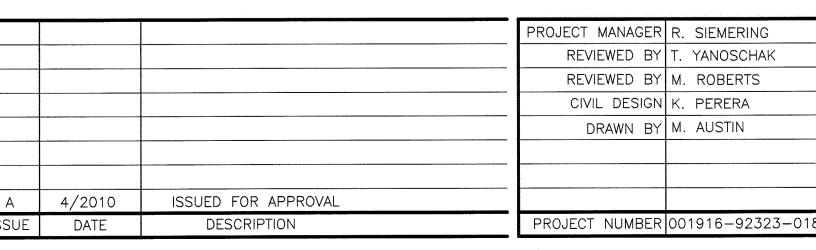


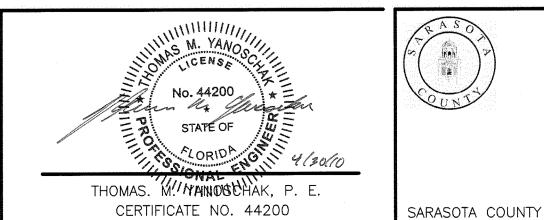
4.0'

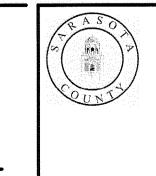


ANCHOR TRENCH (TYPE 3) - 4-FT DEPTH (5)









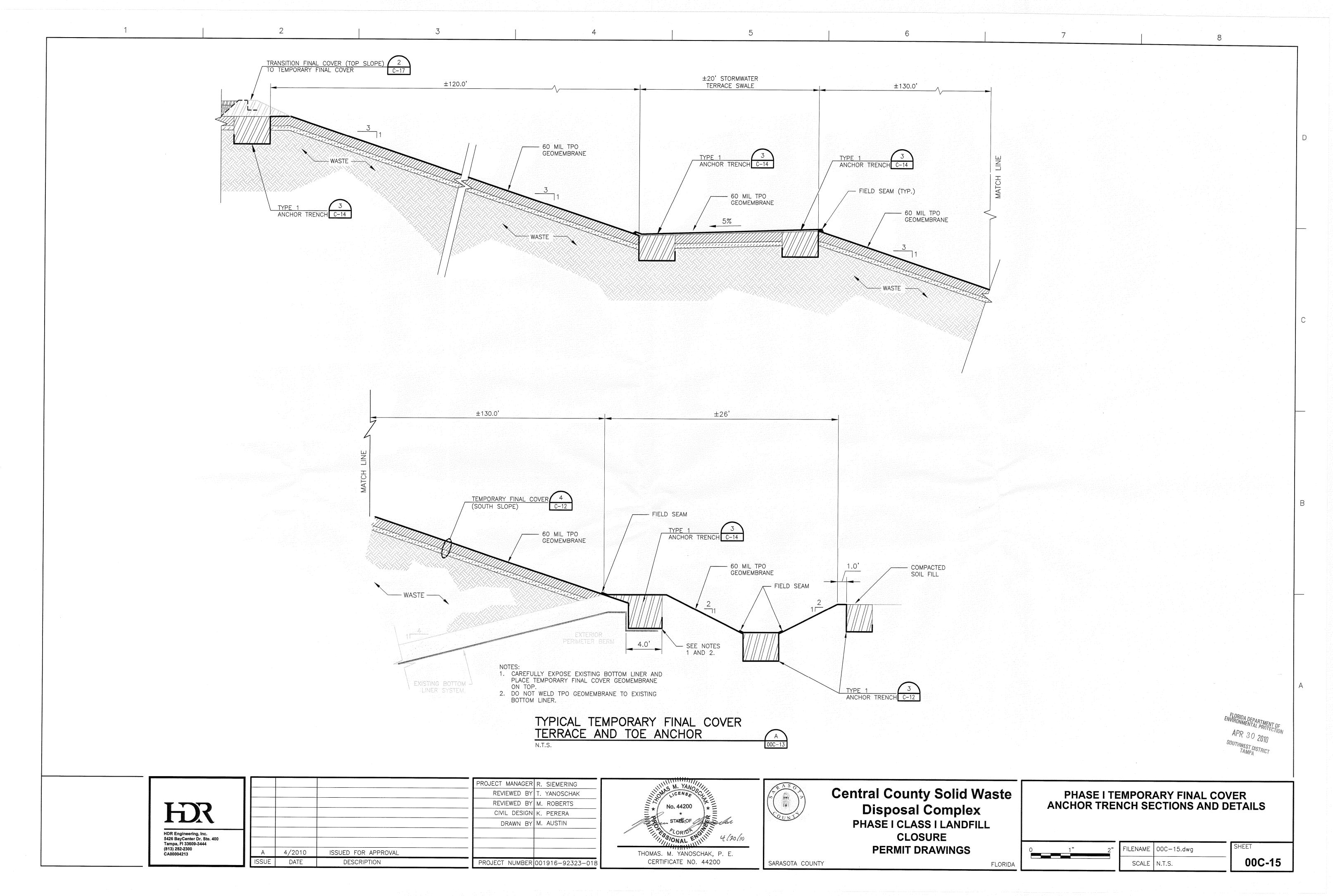
Central County Solid Waste Disposal Complex PHASE I CLASS I LANDFILL **CLOSURE PERMIT DRAWINGS**

FLORIDA

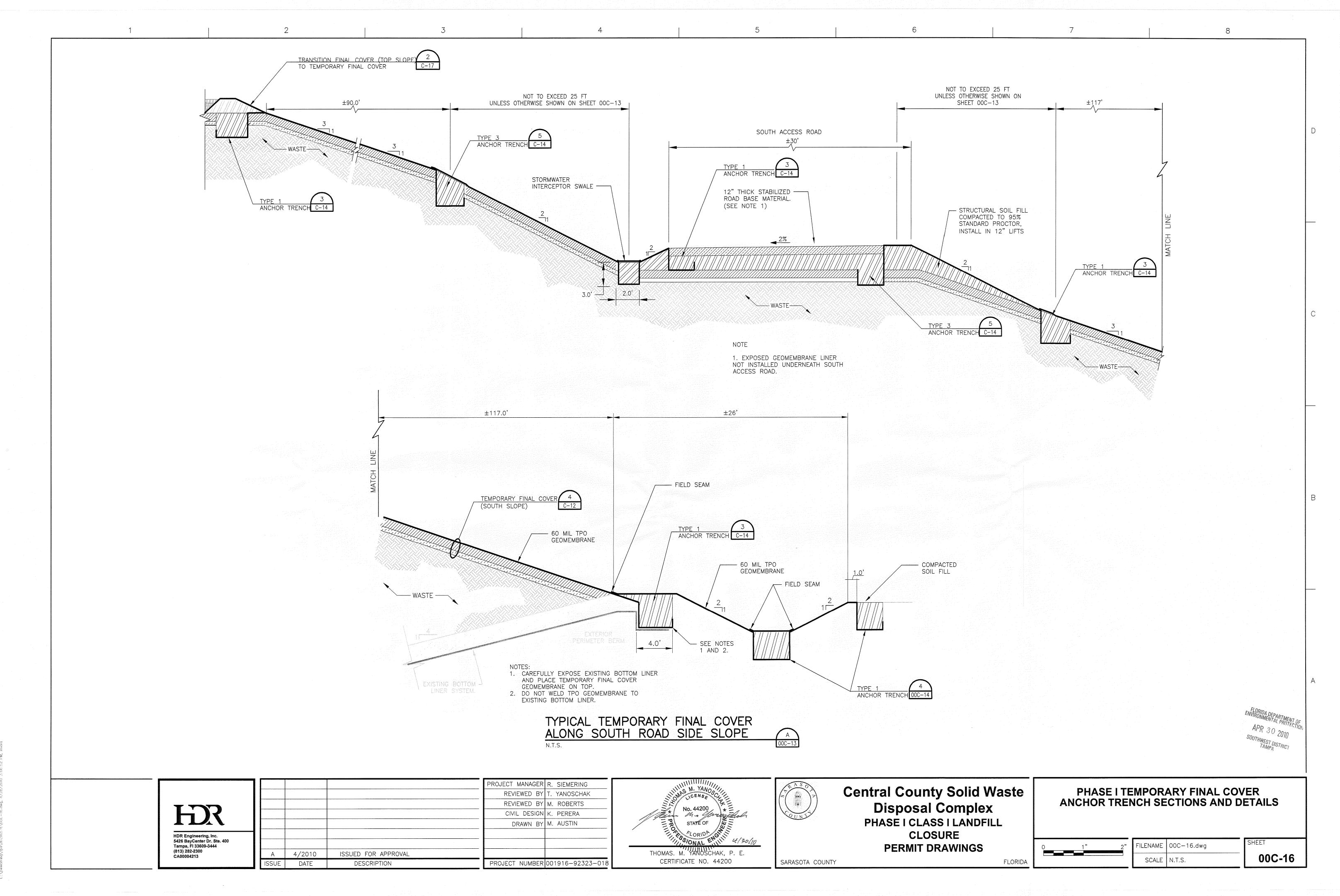
PHASE I TEMPORARY FINAL COVER **ANCHOR TRENCH SECTIONS AND DETAILS**

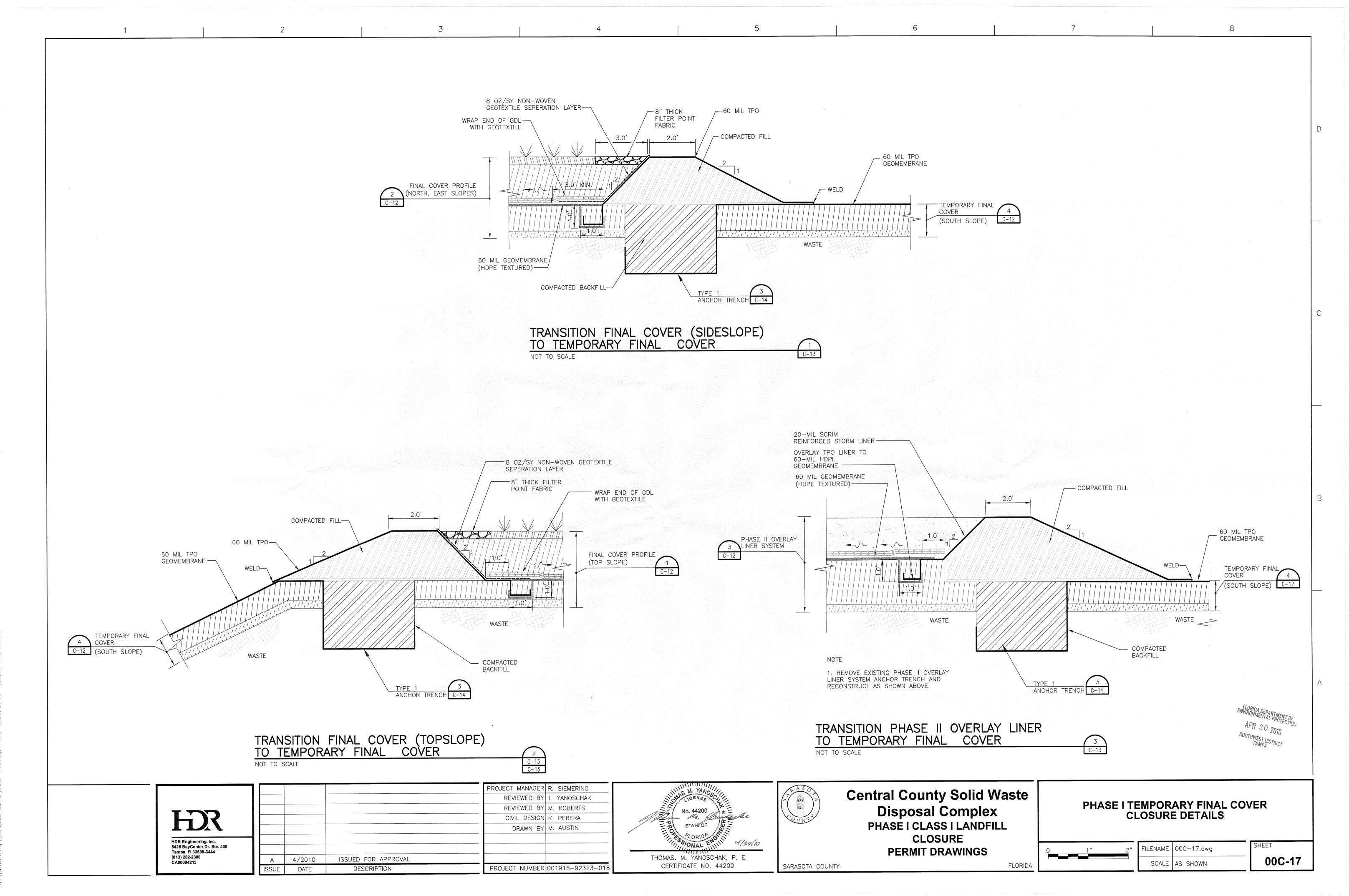
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SHEET 00C-14

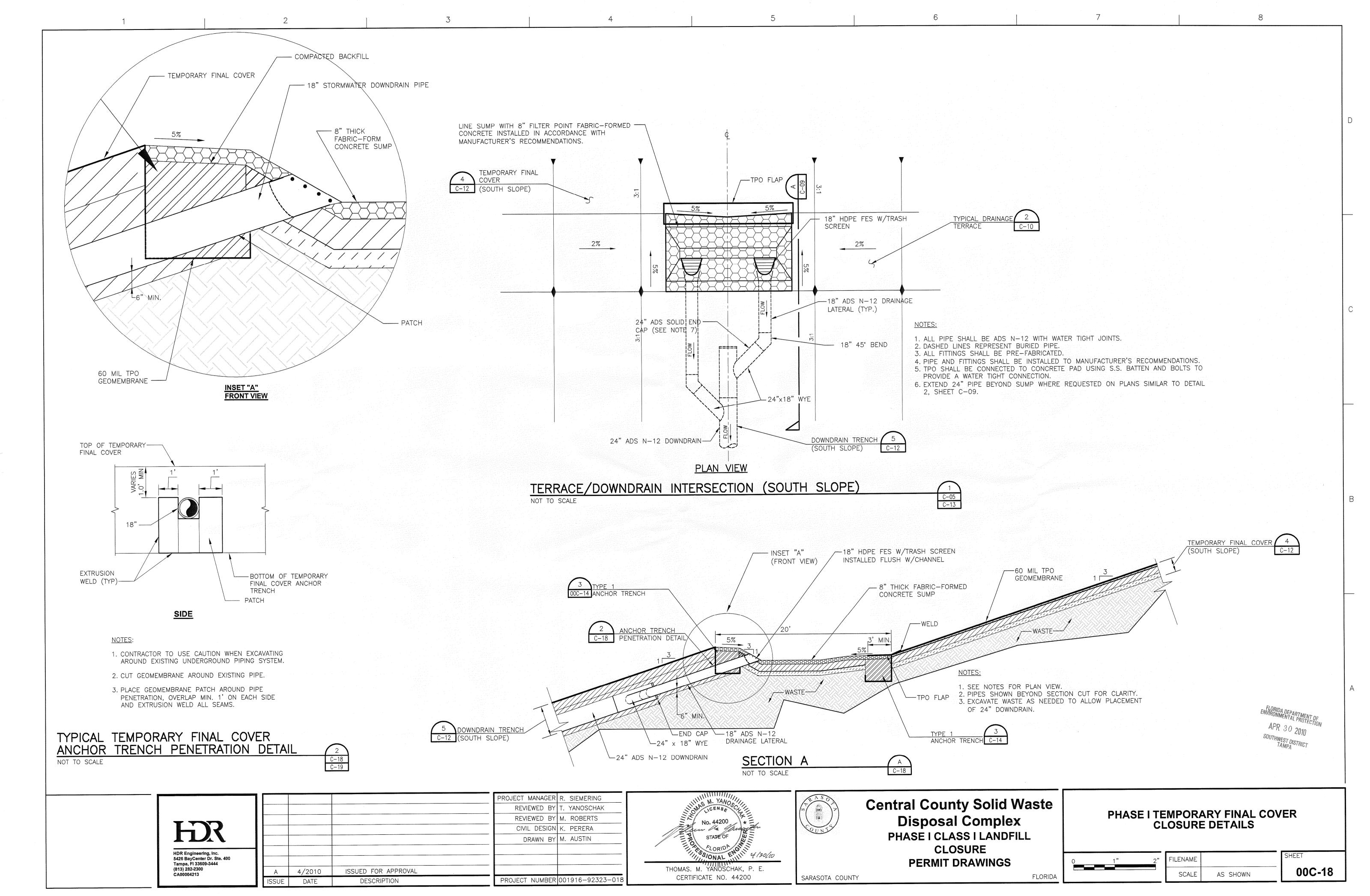


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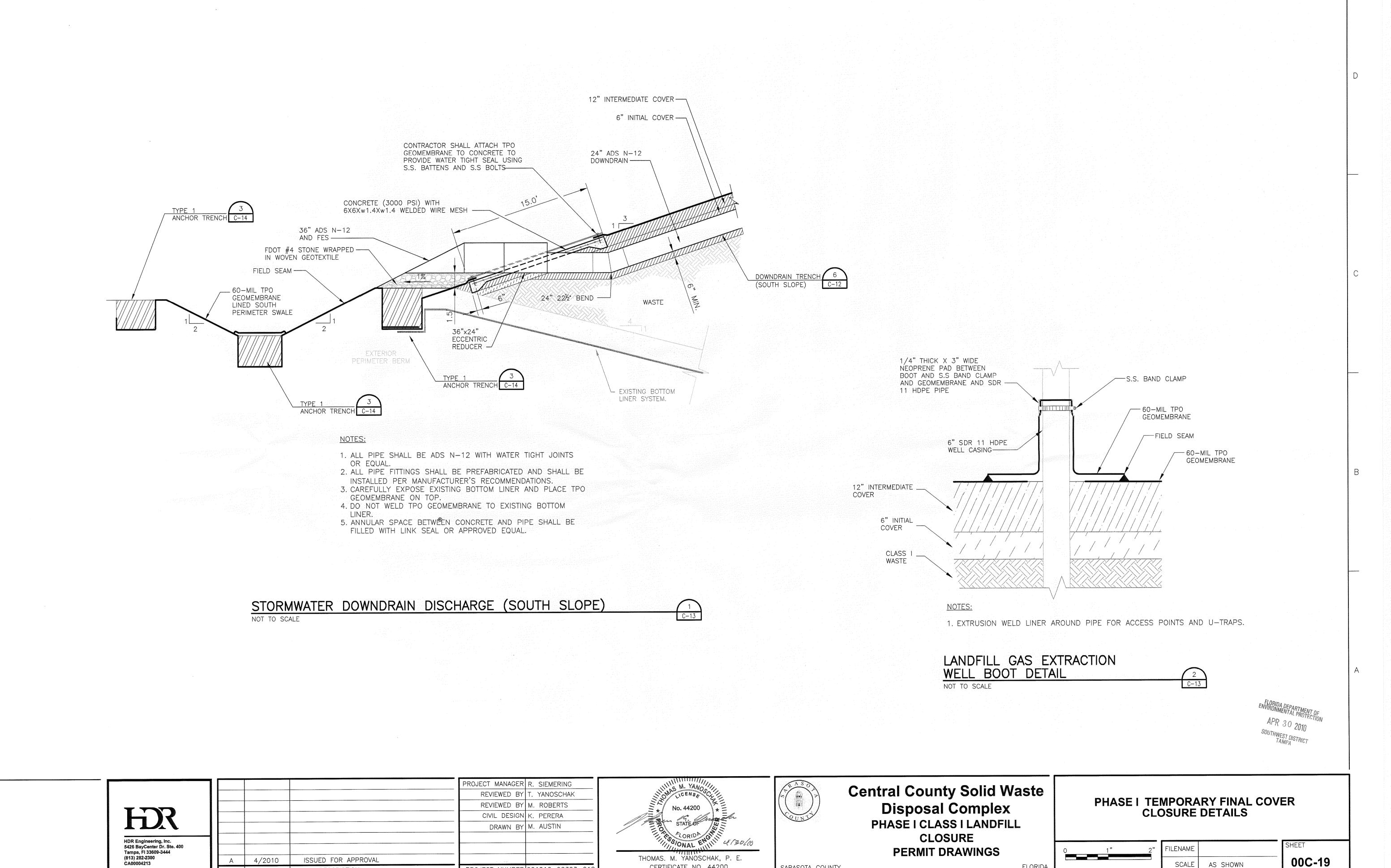




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CERTIFICATE NO. 44200

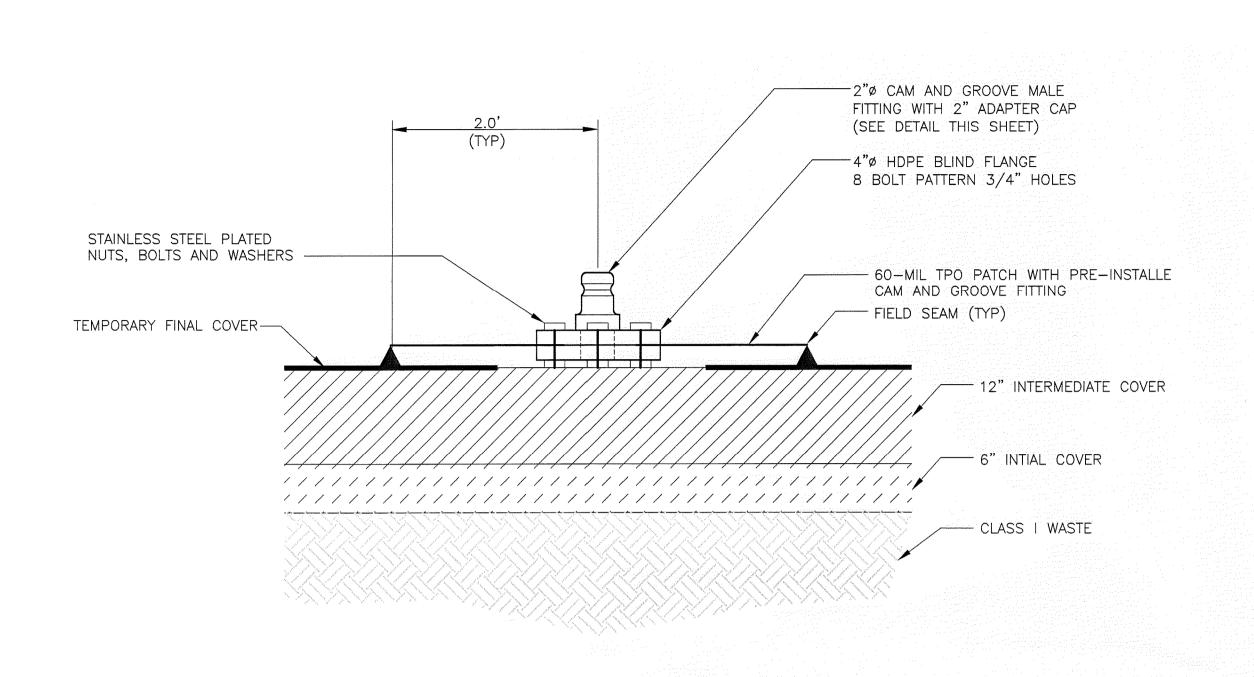
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DESCRIPTION

DATE

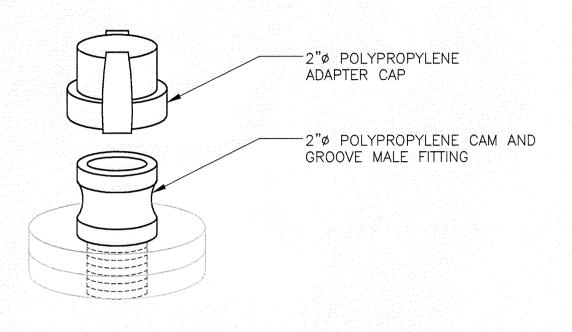
SARASOTA COUNTY

FLORIDA



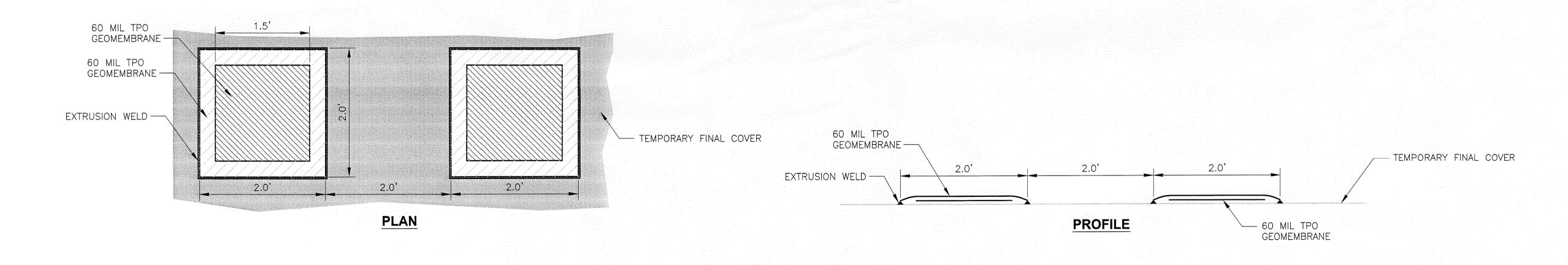
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CAM AND GROOVE FITTING DETAIL

NTS - ALL DIMENSIONS APPROXIMATE



GEOMEMBRANE TEST PANELS

NOT TO SCALE

HDR Engineering Inc		
UDD Engineering Inc		
	HDR Engineering, Inc. 5426 BayCenter Dr. Ste. 400 Tampa, Fl 33609-3444	
Tampa, FI 33609-3444		

			PR
Α	4/2010	ISSUED FOR APPROVAL	
ISSUE	DATE	DESCRIPTION	Р

PROJECT MANAGER I	R. SIEMERING
REVIEWED BY	T. YANOSCHAK
REVIEWED BY I	M. ROBERTS
CIVIL DESIGN I	K. PERERA
DRAWN BY	M. AUSTIN
PROJECT NUMBER	001916-92323-018

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THOMAS. M. YANOSCHAK, P. E. CERTIFICATE NO. 44200	SARASOTA COUNTY



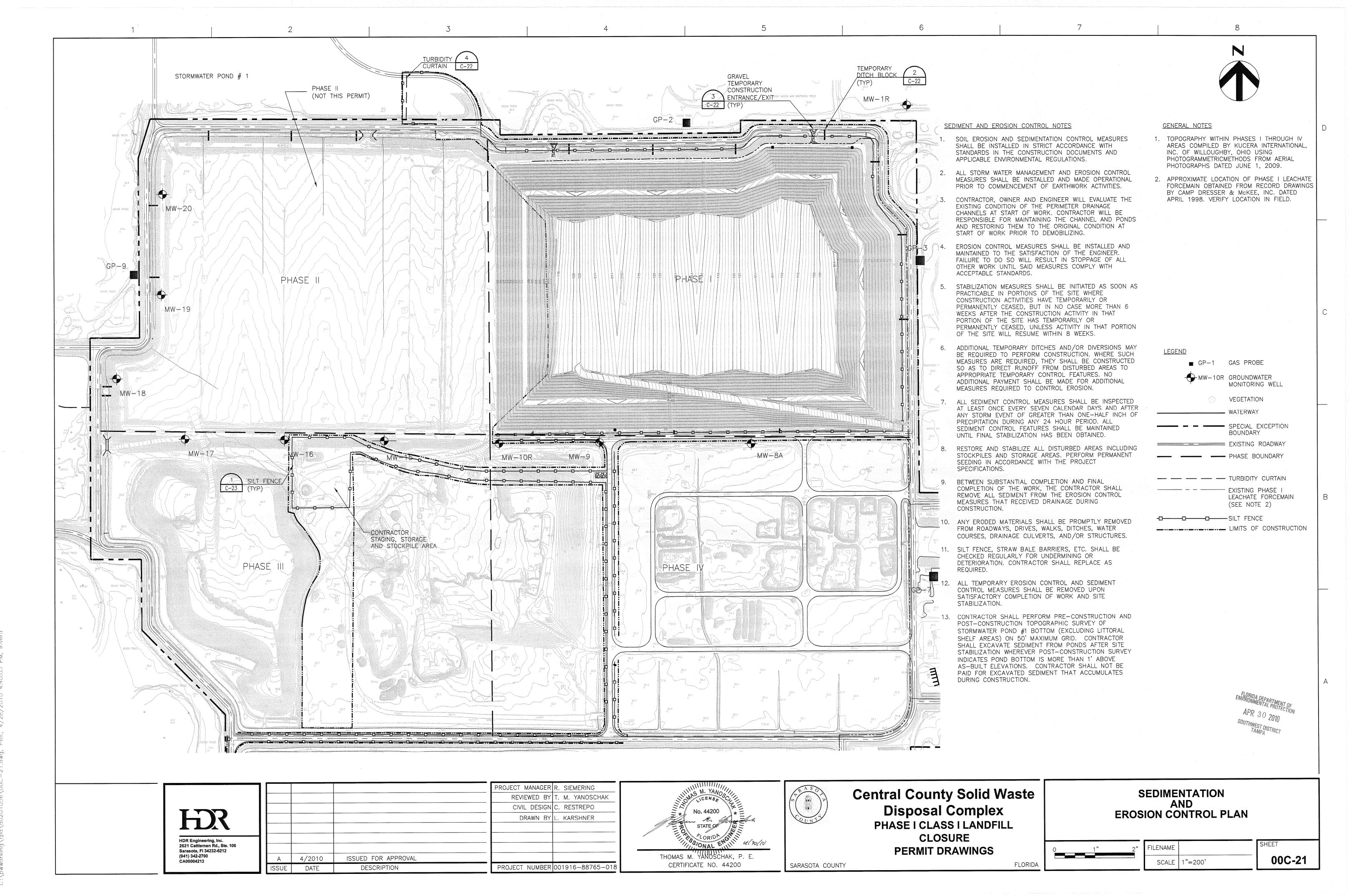
Central County Solid Waste Disposal Complex PHASE I CLASS I LANDFILL CLOSURE

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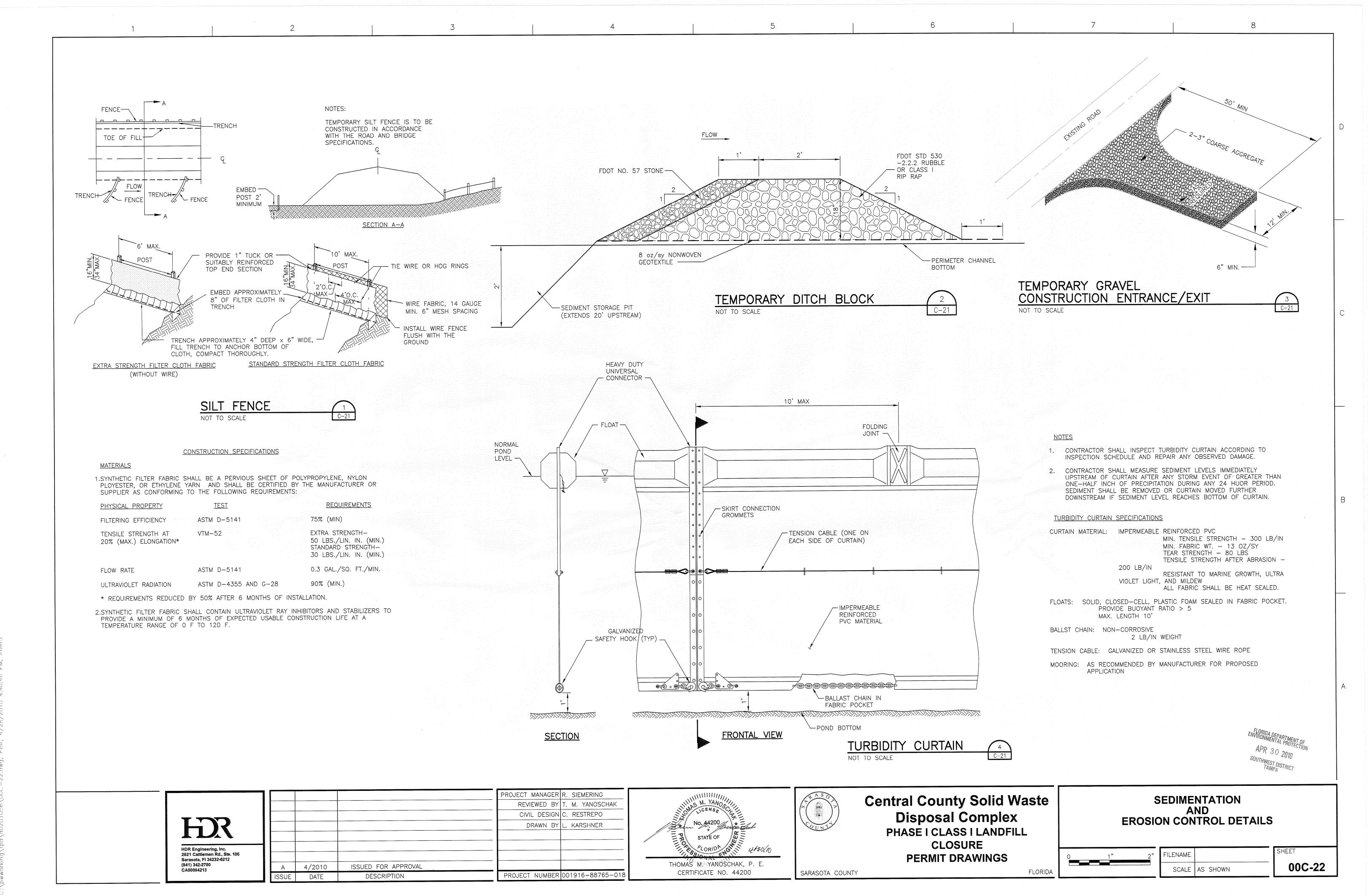


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