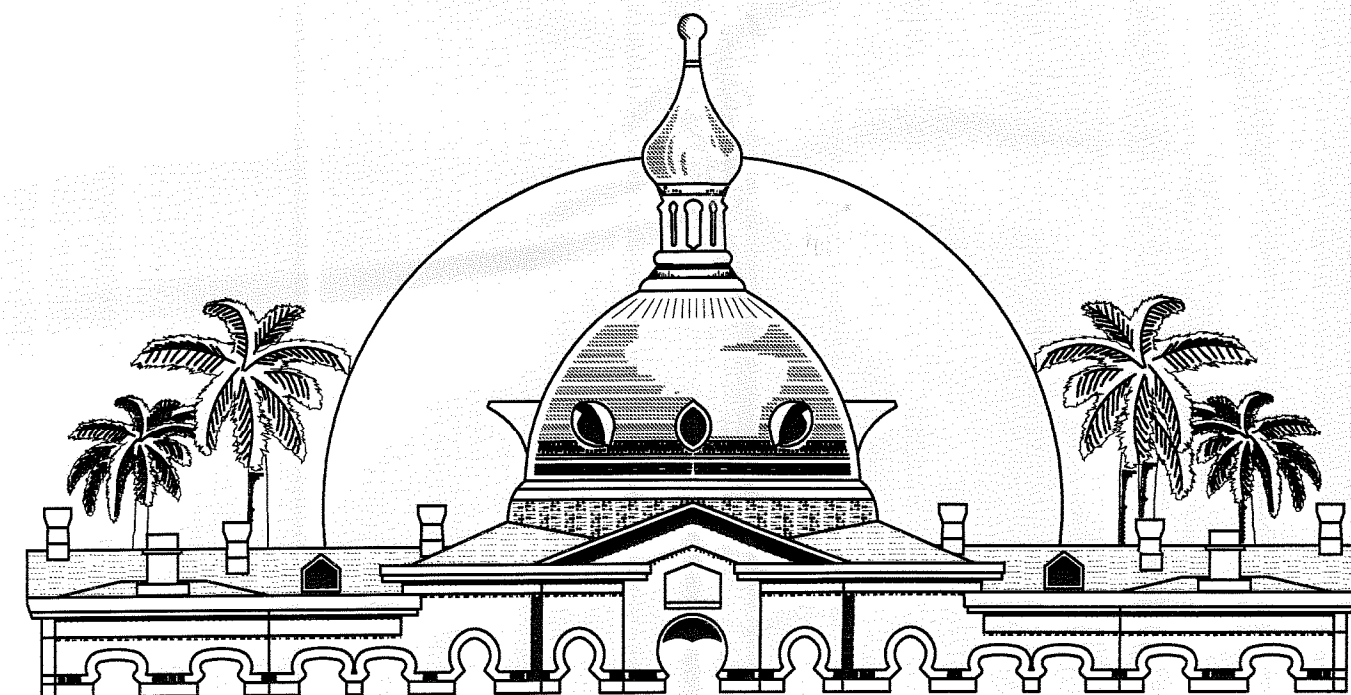


SOUTHEAST COUNTY LANDFILL PHASES I-VI OPERATING SEQUENCE HILLSBOROUGH COUNTY SOLID WASTE MANAGEMENT DEPARTMENT TAMPA, FLORIDA APRIL 2010



BOARD OF COUNTY COMMISSIONERS

ROSE FERLITA, Commissioner District 1
KEN HAGAN, Commissioner District 2
KEVIN WHITE, Commissioner District 3
AL HIGGINBOTHAM, Commissioner District 4
JIM NORMAN, Commissioner District 5
KEVIN BECKNER, Commissioner District 6
MARK SHARPE, Commissioner District 7

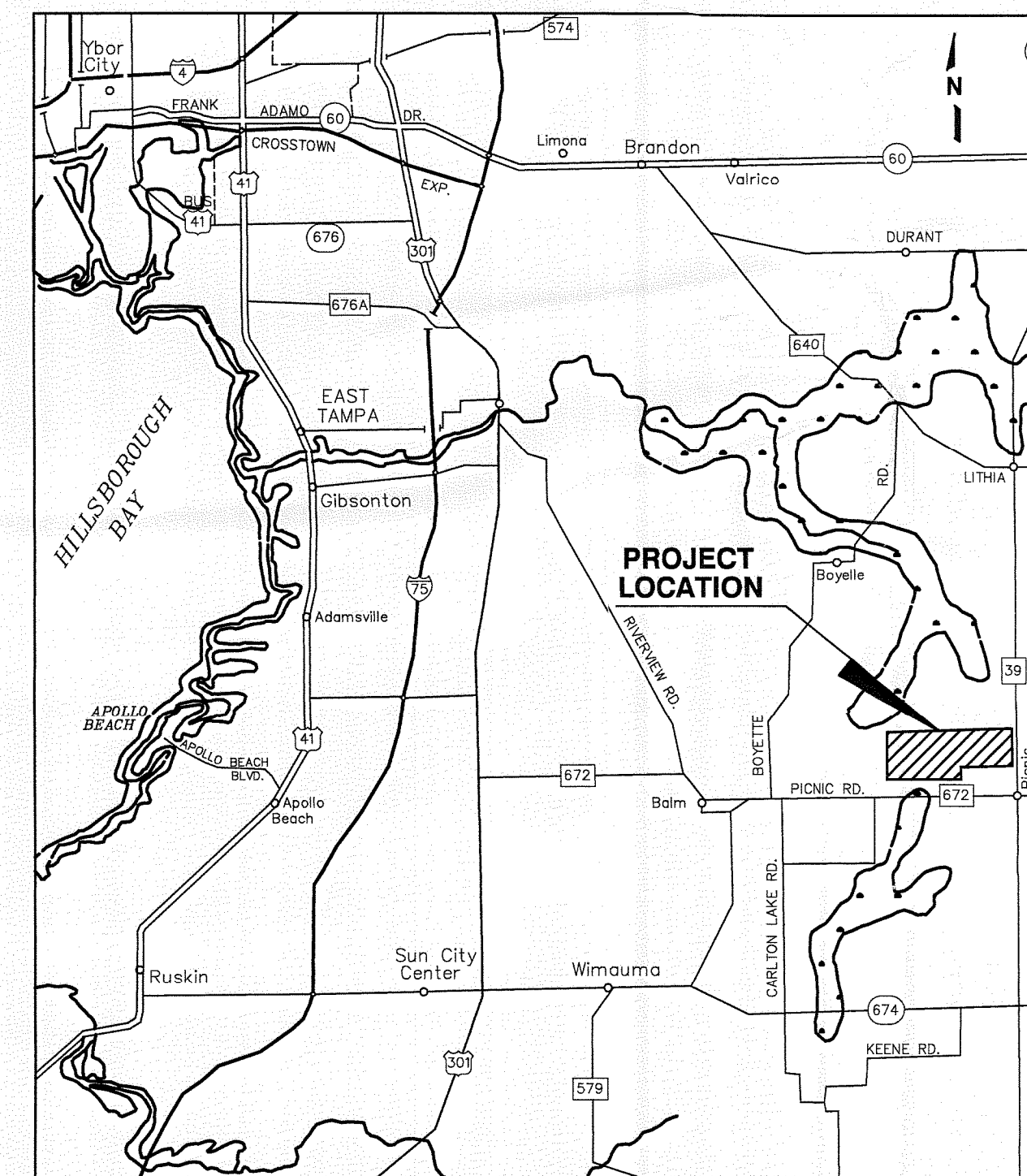
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3012 U.S. HWY. 301 N. SUITE 700
TAMPA, FLORIDA 33619
(813) 821-0080

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

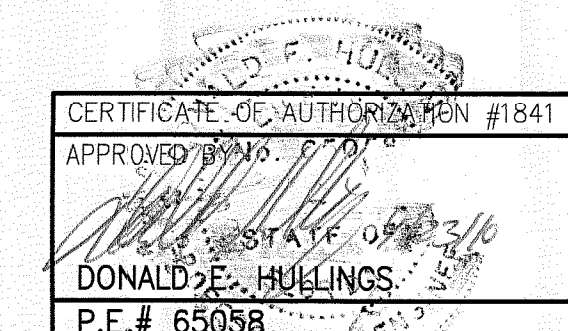
CERTIFICATE OF AUTHORIZATION #1841

NOTE:

THESE OPERATING SEQUENCE DRAWINGS WERE DESIGNED BY SCS ENGINEERS.
JONES EDMUNDS HAS REFORMATTED THE ORIGINAL DRAWINGS BUT HAS NOT ALTERED THE ORIGINAL DESIGN.



SCALE IN MILES
LOCATION MAP



REVISED SEPTEMBER 2010 JONES EDMUNDS
ORIGINAL AUGUST 22, 1994 (SCS ENGINEERS)

Plotted: 9/14/10 12:59pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-02.dwg

LAST SAVED: 9/13/2010 6:52 PM JKRAMER

GENERAL NOTES

1. THE EXISTING TOPOGRAPHY, DATED 7/25/2006, WAS OBTAINED FROM DRAWINGS PROVIDED BY PICKETT & ASSOCIATES, INC.
2. THE PROPOSED OPERATING SEQUENCES (LIFTS 8 – 23) ARE BASED ON THE EXISTING TOPOGRAPHY SHOWN ON THE (7/25/2006) AERIAL SURVEY. ACTUAL OPERATING SEQUENCES MAY NEED TO BE MODIFIED IN THE FIELD TO ALLOW FOR LANDFILL SETTLEMENT. REVISED GRADES WILL BE DETERMINED BASED ON THE MAXIMUM DESIGNED 20–FOOT LIFT HEIGHT.
3. SUFFICIENT TIME MUST BE PROVIDED TO ALLOW CONSOLIDATION TO OCCUR BEFORE ADDITIONAL LOADING CAN BE PLACED.
95 PERCENT CONSOLIDATION FOR A 20–FOOT LIFT OF REFUSE IS APPROXIMATELY 7 YEARS. THEREFORE, DEPENDING ON THE ACTUAL DISPOSAL RATES, THE POSSIBILITY EXISTS THAT THE HCDSW MAY HAVE TO DIVERT WASTE PLACEMENT TO ANOTHER FACILITY IF NOT ENOUGH CONSOLIDATION TIME IS ALLOWED FOR ANY 20–FOOT LIFT. ALL FILL PLACEMENT SCHEDULES SHOWN ON THE DRAWINGS REPRESENT A CONTINUOUS FILLING SEQUENCE BASED ON EXISTING AND PROJECTED DISPOSAL RATES PREPARED BY THE HCDSW.
4. THE LANDFILL LINER AND EXISTING DRAINAGE STRUCTURES WERE SURVEYED BY WEIDENER SURVEY AND MAPPING PA ON 2/23/94.

CIVIL LEGEND
AND ABBREVIATIONS

- 9A

➔

➔

⤿

▒

▨

-----140-----

-----140-----

BVC

CTRD

ERC

ERC

EVC

-----150-----

EXP. JT.

I.E.

LF

LT

PC

PI

PT

PVI

RT

TYP.

VC

Ø

'

"

Ⓐ

Ⓢ-21

TS-4

⌵

HCDSW

MIN.

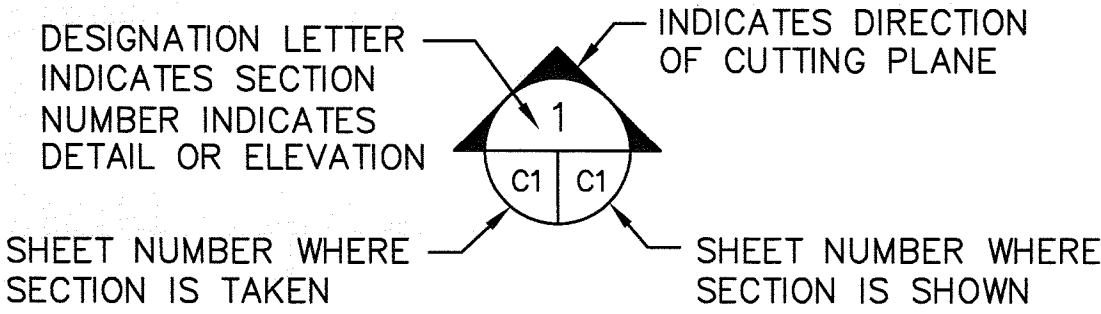
HDPE
- LIFT NUMBER
- DAILY PROGRESSION
- FILL PROGRESSION
- DRAINAGE FLOW DIRECTION
- APPROXIMATE PHASE FOOTPRINT
- APPROXIMATE LANDFILL LIMITS
- APPROXIMATE LIFT LIMITS
- APPROXIMATE LIMITS OF BORROW AREA
- APPROXIMATE FINAL COVER AREA AFTER EACH LIFT
- APPROXIMATE GEOMEMBRANE FINAL COVER AREA
- EXISTING SWALE
- SIDESLOPE DITCH
- PROJECTED EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED DOWNCHUTE
- BEGIN VERTICAL CURVE
- CENTERED
- ELLIPTICAL REINFORCED CONCRETE PIPE
- END VERTICAL CURVE
- EXIST. CONTOURS
- EXPANSION JOINT
- INVERT ELEVATION
- LINEAR FEET
- LEFT
- POINT OF CURVATURE
- POINT OF INTERSECTION
- POINT OF TANGENCY
- POINT OF VERTICAL INTERSECTION
- RIGHT
- TYPICAL
- VEGETATION
- VERTICAL CURVE
- DIAMETER
- FOOT
- INCH
- CELL DESIGNATION
- EXISTING DRAINAGE STRUCTURE
- TEMPORARY DRAINAGE STRUCTURE
- PROPERTY LINE
- STORMWATER STRUCTURE
- HILLSBOROUGH COUNTY DEPARTMENT OF SOLID WASTE
- MINIMUM
- HIGH DENSITY POLYETHYLENE

INDEX OF DRAWINGS

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	INDEX, LEGENDS AND GENERAL NOTES
3	FINAL DRAINAGE PLAN
4 *	PHASE IV LIFT 4 (CURRENT LIFT)
5 *	PHASES I AND II – LIFTS 5 AND 6
6 *	PHASES V AND VI – LIFTS 7A AND 7B
7 *	PHASES V AND VI – LIFTS 7C, 7D AND 7E
8	PHASES I TO IV – LIFTS 8 TO 11
9	PHASES V AND VI – LIFT 12
10	PHASES I TO IV – LIFTS 13 TO 16
11	PHASES V AND VI – LIFT 17
12	PHASES I TO IV – LIFTS 18 TO 21
13	PHASES V AND VI – LIFT 22
14	PHASES V AND VI LIFT 23 (FINAL LIFT)
15	SEMI-ANNUAL LANDFILL SECTIONS 1
16	SEMI-ANNUAL LANDFILL SECTIONS 2
16B	SEMI-ANNUAL LANDFILL SECTIONS 3
16C	SEMI-ANNUAL LANDFILL SECTIONS 4
16D	SEMI-ANNUAL LANDFILL SECTIONS 5
16E	SEMI-ANNUAL LANDFILL SECTIONS 6
17	LANDFILL SECTIONS
18	DETAILS 1
19	DETAILS 2
20	DETAILS 3

* NOTE 1.) REFER TO SCS DRAWINGS DATED MAY 2001

GENERAL LEGEND



SECTION AND DETAIL DESIGNATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

* SCS ENGINEERS

					DESIGNED	SCS
					DRAWN	SCS/GRD
					CHECKED	JHO
LTR.	DATE	REVISIONS	BY	APPRD.		
2	9/10	MINOR MOD TO OPS PLAN				
1	4/01	ADD SEMI-ANNUAL SECTIONS	*			

JONES
EDMUNDS

730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-6821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

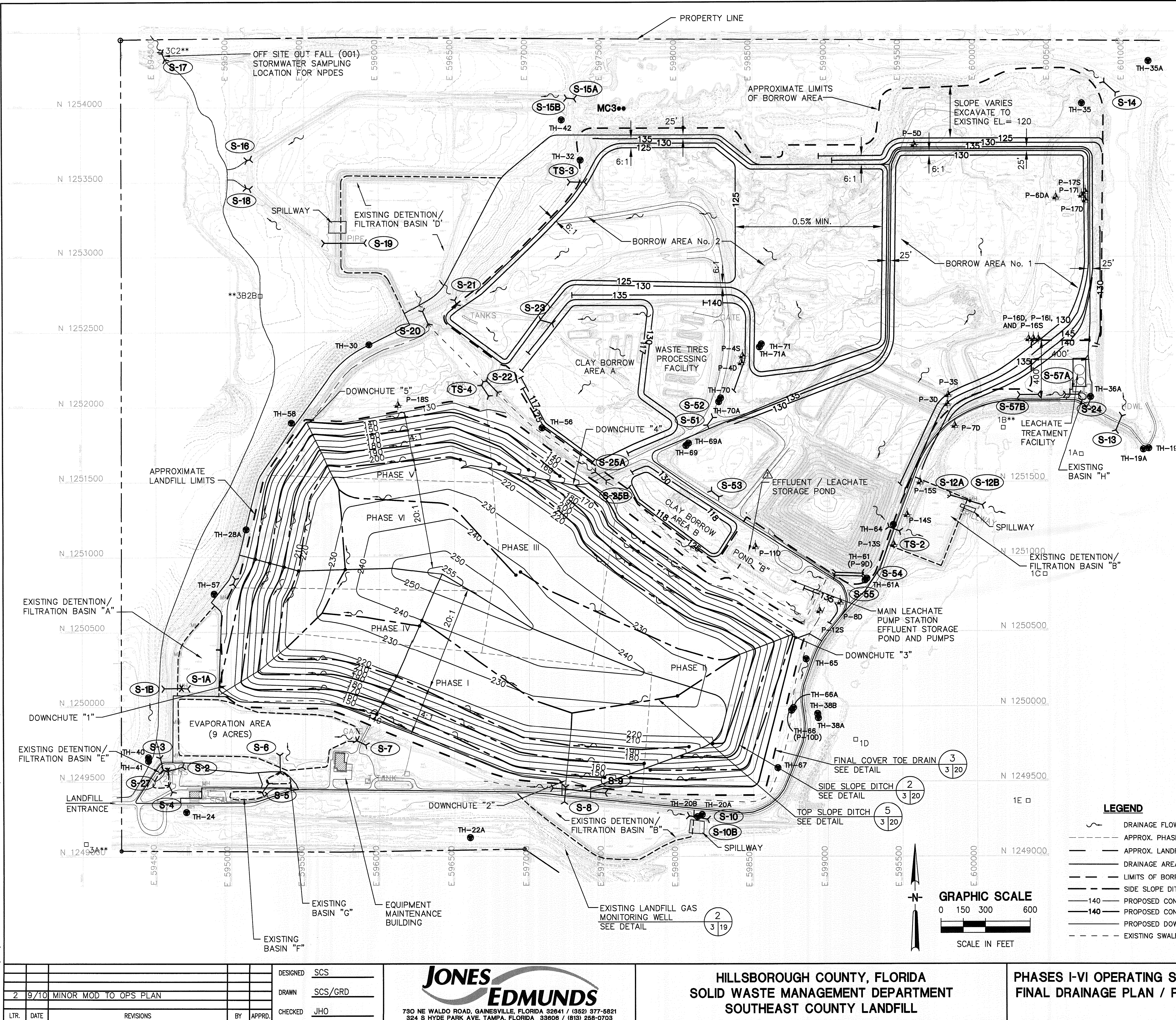
PHASES I-VI OPERATING SEQUENCE
INDEX, LEGENDS AND GENERAL NOTES

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY DONALD E. HOLLINGS P.E. # 65058	DATE SEP 2010	PROJECT NO. 08449-030-04
	SCALE AS SHOWN	DWG. NO. 2

Plotted: 9/14/10 12:59pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-03.dwg

LAST SAVED: 9/13/2010 7:00 PM JKRAMER



EXISTING STORMWATER PIPE DATA TABLE					
STRUCTURE NO	TYPE OF STRUCTURE	INVERT ELEVATION UPSTREAM	INVERT ELEVATION DOWNSTREAM	DIAMETER (IN)	LENGTH (FT)
S-1A	RCP	116.24 (E)	115.82 (W)	18.00	39.97
S-1B	RCP	115.45 (E)	114.93 (W)	36.00	115.45
S-2	ERCP	124.83 (E)	124.72 (W)	14X22	92.38
S-3	CMP	122.96 (S)	122.07 (N)	36.00	81.19
S-4	ERCP	124.98 (S)	124.91 (N)	14X22	47.87
S-5	ERCP	124.44 (N)	125.34 (S)	14X22	73.39
S-6	ERCP	124.63 (S)	124.08 (N)	14X22	50
S-7	CMP	122.316 (E)	122.065 (W)	24.00	37.00
S-8	ERCP	126.70 (S)	126.51 (N)	34X54	100.67
	ERCP	126.66 (S)	126.51 (N)	34X54	100.39
S-9	CMP	123.90 (W)	123.64 (E)	24.00	343.74
S-10	RCP	121.73 (E)	121.62 (W)	48.00	100.06
S-10B	RCP	121.53 (E)	121.49 (W)	24.00	17.96
S-11	REPLACED BY TS-2				
S-12A	RCP	121.79 (W)	121.35 (E)	30.00	169.40
S-12B	RCP	121.45 (W)	121.39 (E)	48.00	50.37
S-13	RCP	121.69 (S)	120.71 (N)	24.00	104.48
	RCP	121.75 (S)	120.86 (N)	24.00	104.56
S-14	RCP	120.35 (E)	118.806 (W)	24.00	104.90
	RCP	120.43 (E)	118.956 (W)	24.00	104.90
S-15A	RCP	106.852 (W)	106.832 (E)	18.00	48.75
S-15B	RCP	106.772 (E)	106.682 (W)	18.00	47.60
S-16	Steel	94.87 (E)	94.62 (W)	24 (W)-21(E)	22.04
	Steel (E)-ECMP (W)			21 (E)-22X24 (W)	
S-17	RCP	94.97 (E)	94.81 (W)		20.98
	RCP	90.98 (N)	90.69 (S)	48.00	50.51
	RCP	90.87 (N)	90.62 (S)	48.00	50.71
S-18	CMP	95.47 (E)	95.09 (W)	18.00	19.89
S-19	RCP	101.16 (E)	100.91 (W)	48.00	161.35
S-20	CMP	115.32 (N)	114.60 (S)	48.00	90.98
	CMP	115.48 (N)	114.73 (S)	48.00	91.11
S-21	RCP	123.16 (N)	122.95 (S)	36.00	34.84
S-22	RCP	121.112 (S)	120.623 (N)	36.00	88.74
S-23	CMP	131.153 (E)	129.551 (W)	30.00	79.75
S-24	ERCP	146.44 (E)	145.05 (W)	12X18	91.04
S-25A	CMP	127.404 (E)	126.607 (W)	36.00	74.93
S-25B	CMP	127.513 (E)	126.692 (W)	36.00	75.48
S-26	This point is not depicted in the plan				
S-27	CMP	123.03 (E)	123.00 (W)	18.00	24.15
S-28	This point is not depicted in the plan				
S-51	RCP	139.69 (N)	139.54 (S)	36.00	50
S-52	RCP	139.69 (N)	139.54 (S)	36.00	50
S-53	BOX CULVERT	138.00 (W)	138.00 (E)	3X6 BOX	27
S-54	HDPE	132.17 (W)	131.41 (E)	30.00	175
S-55	HDPE	132.28 (W)	131.29 (E)	30.00	175
S-57A	RCP	143.23	142.23	24.00	136
S-57B	RCP	143.23	142.23	24.00	136
TS-2	CULVERT	130.05 (W)	129.18 (E)	48X96	74.73
TS-3	RCP	129.007 (E)	128.157 (W)	18.00	98.07
TS-4	RCP	123.58 (S)	122.355 (N)	36.00	80.83
TS-6	Metal	125.94 (N)	125.55 (S)	20.00	29.65
	CMP	125.90 (N)	125.68 (S)	36.00	19.59

LEGEND

- ~ DRAINAGE FLOW DIRECTION
- - - - - APPROX. PHASE FOOTPRINT
- - - - - APPROX. LANDFILL LIMITS
- - - - - DRAINAGE AREAS BOUNDARY LINE
- - - - - LIMITS OF BORROW AREA
- - - - - SIDE SLOPE DITCH
- - - - - PROPOSED CONTOUR
- - - - - PROPOSED CONTOUR
- - - - - PROPOSED DOWN CHUTE
- - - - - EXISTING SWALE
- (S-53) EXISTING DRAINAGE STRUCTURE
- (TS-3) TEMPORARY DRAINAGE STRUCTURE TO BE REMOVED AS SEQUENCE PROGRESSES
- STORMWATER STRUCTURE
- TH-35A INACTIVE MONITORING WELL LOCATION AND DESIGNATION
- ▲ P-7D EXISTING MONITORING WELL CURRENTLY IN MONITORING PROGRAM
- 1E □ SURFACE WATER MONITORING SITE LOCATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

						DESIGNED	SCS
2	9/10	MINOR MOD TO OPS PLAN				DRAWN	SCS/GRD
LTR.	DATE	REVISIONS			BY	APPRD.	CHECKED
							JHO

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

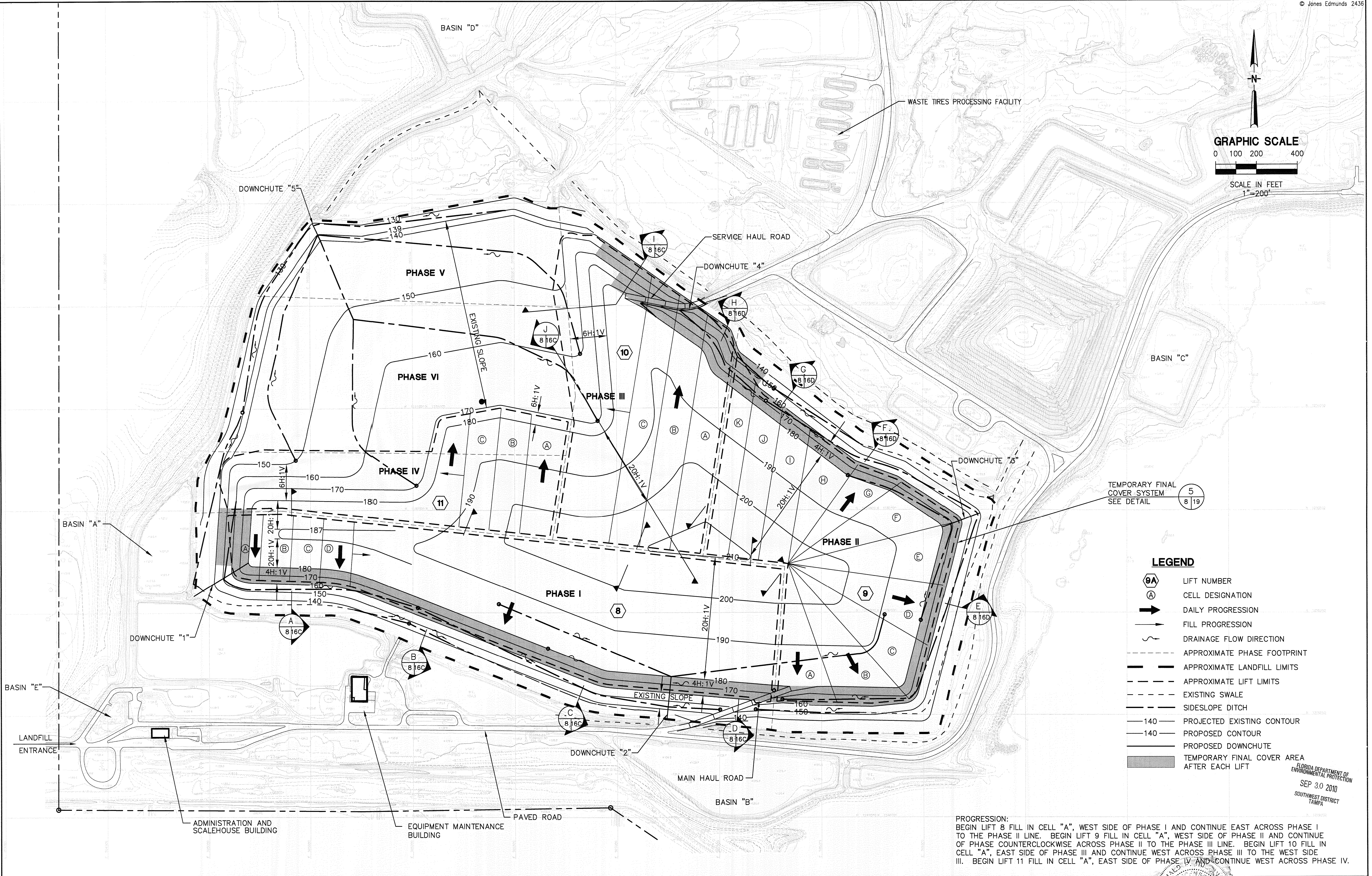
PHASES I-VI OPERATING SEQUENCE
FINAL DRAINAGE PLAN / PLOT PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY: DONALD E. HULLINGS	SEP 2010	08449-030-04
P.E. # 65058	SCALE	DWG. NO.
	AS SHOWN	3

Plotted: 9/14/10 12:56pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-08.dwg

LAST SAVED: 9/13/2010 7:07 PM JKRAMER



TEMPORARY FINAL COVER SYSTEM SEE DETAIL 5 8 19

LEGEND

- (9A) LIFT NUMBER
- (A) CELL DESIGNATION
- ➔ DAILY PROGRESSION
- ➔ FILL PROGRESSION
- ~ DRAINAGE FLOW DIRECTION
- - - APPROXIMATE PHASE FOOTPRINT
- - - APPROXIMATE LANDFILL LIMITS
- - - APPROXIMATE LIFT LIMITS
- - - EXISTING SWALE
- - - SIDESLOPE DITCH
- 140 - PROJECTED EXISTING CONTOUR
- 140 - PROPOSED CONTOUR
- - - PROPOSED DOWNCHUTE
- TEMPORARY FINAL COVER AREA AFTER EACH LIFT

PROGRESSION:
BEGIN LIFT 8 FILL IN CELL "A", WEST SIDE OF PHASE I AND CONTINUE EAST ACROSS PHASE I TO THE PHASE II LINE. BEGIN LIFT 9 FILL IN CELL "A", WEST SIDE OF PHASE II AND CONTINUE OF PHASE COUNTERCLOCKWISE ACROSS PHASE II TO THE PHASE III LINE. BEGIN LIFT 10 FILL IN CELL "A", EAST SIDE OF PHASE III AND CONTINUE WEST ACROSS PHASE III TO THE WEST SIDE III. BEGIN LIFT 11 FILL IN CELL "A", EAST SIDE OF PHASE IV AND CONTINUE WEST ACROSS PHASE IV.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

						DESIGNED	SCS
2	9/10	MINOR MOD TO OPS PLAN				DRAWN	SCS/GRD
LTR.	DATE	REVISIONS			BY	APPRD.	CHECKED
							JHO

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

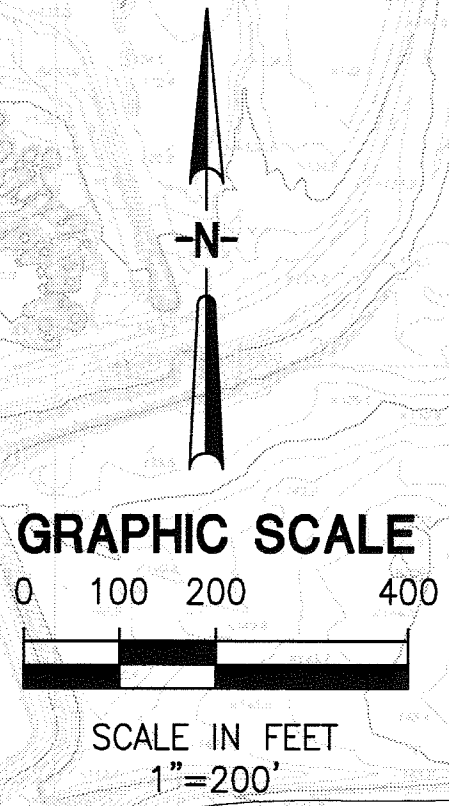
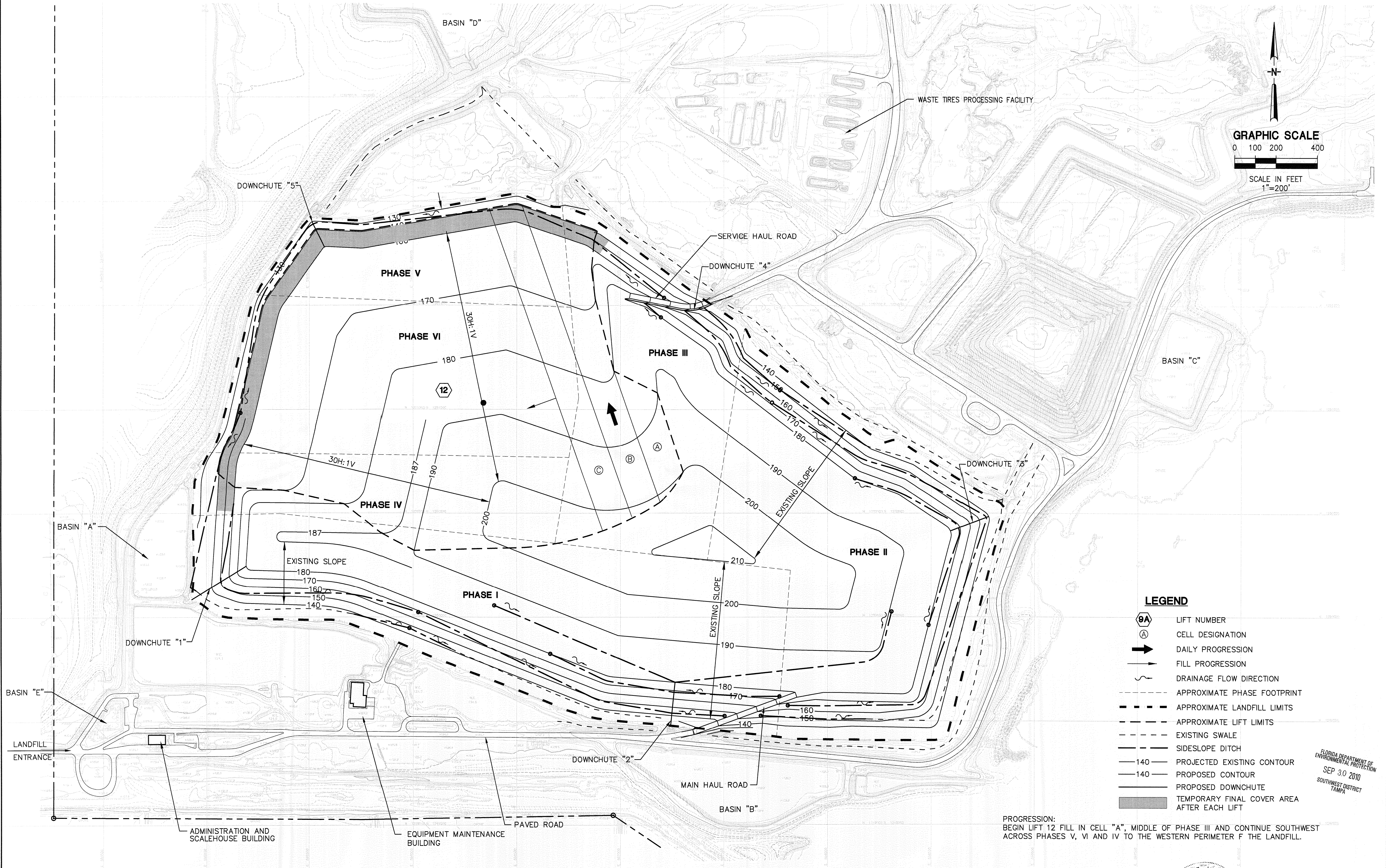
PHASES I-VI OPERATING SEQUENCE
PHASES I TO IV - LIFTS 8 TO 11

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY DONALD E. HOLLINGS P.E. # 65058	DATE SEP 2010	PROJECT NO. 08449-030-04
	SCALE AS SHOWN	DWG. NO. 8

Plotted: 9/14/10 12:54pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-09.dwg

LAST SAVED: 9/13/2010 7:10 PM JKRAMER



LEGEND

- LIFT NUMBER
- CELL DESIGNATION
- DAILY PROGRESSION
- FILL PROGRESSION
- DRAINAGE FLOW DIRECTION
- APPROXIMATE PHASE FOOTPRINT
- APPROXIMATE LANDFILL LIMITS
- APPROXIMATE LIFT LIMITS
- EXISTING SWALE
- SIDESLOPE DITCH
- PROJECTED EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED DOWNCHUTE
- TEMPORARY FINAL COVER AREA AFTER EACH LIFT

PROGRESSION:
BEGIN LIFT 12 FILL IN CELL "A", MIDDLE OF PHASE III AND CONTINUE SOUTHWEST
ACROSS PHASES V, VI AND IV TO THE WESTERN PERIMETER F THE LANDFILL.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

DESIGNED	SCS
DRAWN	SCS/GRD
CHECKED	JHO
DATE	9/10
REVISIONS	MINOR MOD TO OPS PLAN

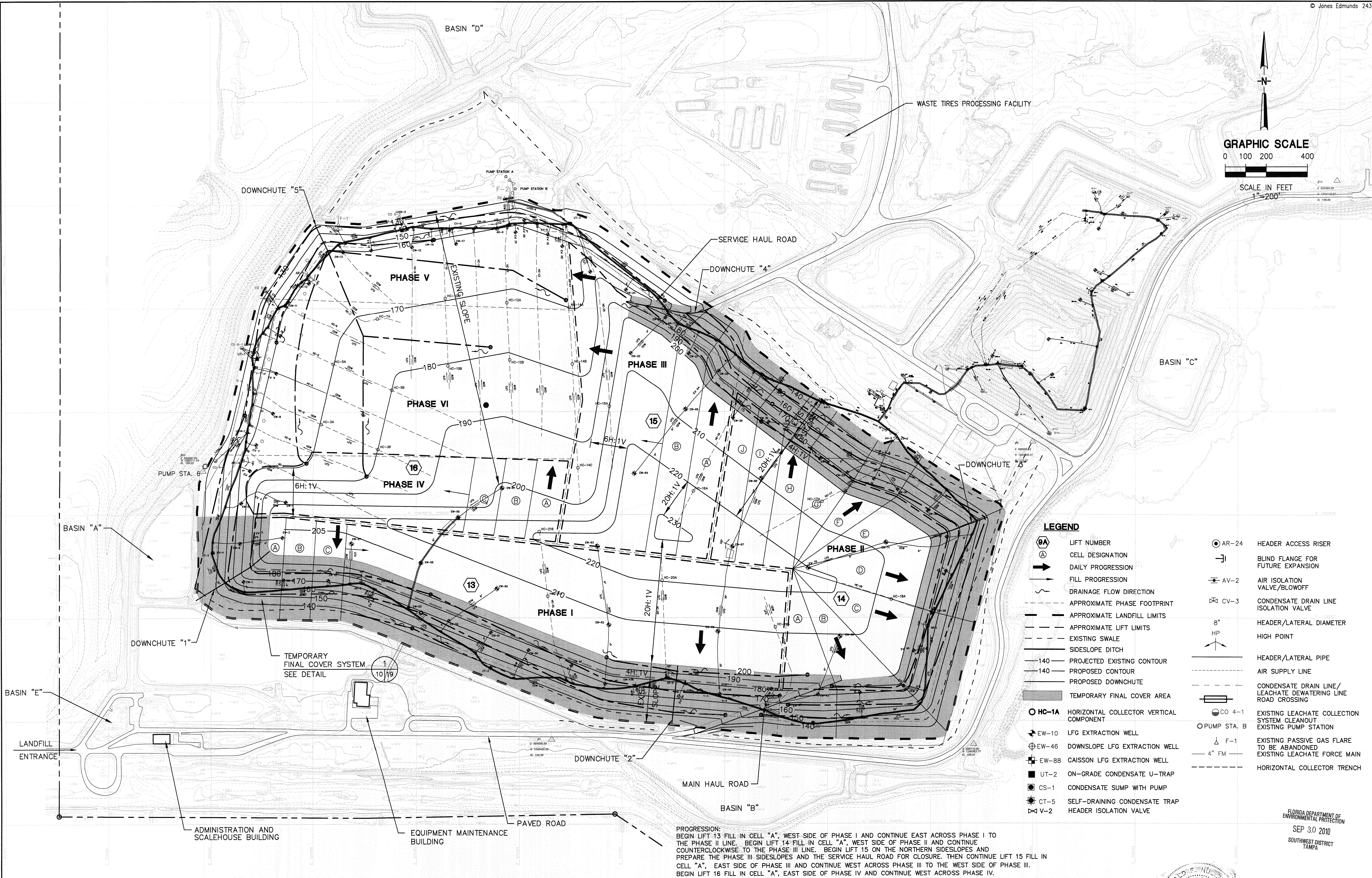
JONES EDMUNDS

730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5921
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
PHASES V AND VI - LIFT 12

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY:	SEP 2010	08449-030-04
DONALD E. MULLINGS	SCALE	DWG. NO.
P.E. # 65058	AS SHOWN	9



PROGRESSION:
BEGIN LIFT 13 FILL IN CELL "A", WEST SIDE OF PHASE I AND CONTINUE EAST ACROSS PHASE I TO THE PHASE II LINE. BEGIN LIFT 14 FILL IN CELL "A", WEST SIDE OF PHASE II AND CONTINUE COUNTERCLOCKWISE TO THE PHASE III LINE. BEGIN LIFT 15 ON THE NORTHERN SIDESLOPES AND PREPARE THE PHASE III SIDESLOPES AND THE SERVICE HAUL ROAD FOR CLOSURE. THEN CONTINUE LIFT 15 FILL IN CELL "A", EAST SIDE OF PHASE III AND CONTINUE WEST ACROSS PHASE III TO THE WEST SIDE OF PHASE III. BEGIN LIFT 16 FILL IN CELL "A", EAST SIDE OF PHASE IV AND CONTINUE WEST ACROSS PHASE IV.

LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED
2	9/10	MINOR MOD TO OPS PLAN			SCS
1	4/10	ADDED GAS AS-BUILT DATA	PCR	D2H	SCS/GRD
					JHO

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

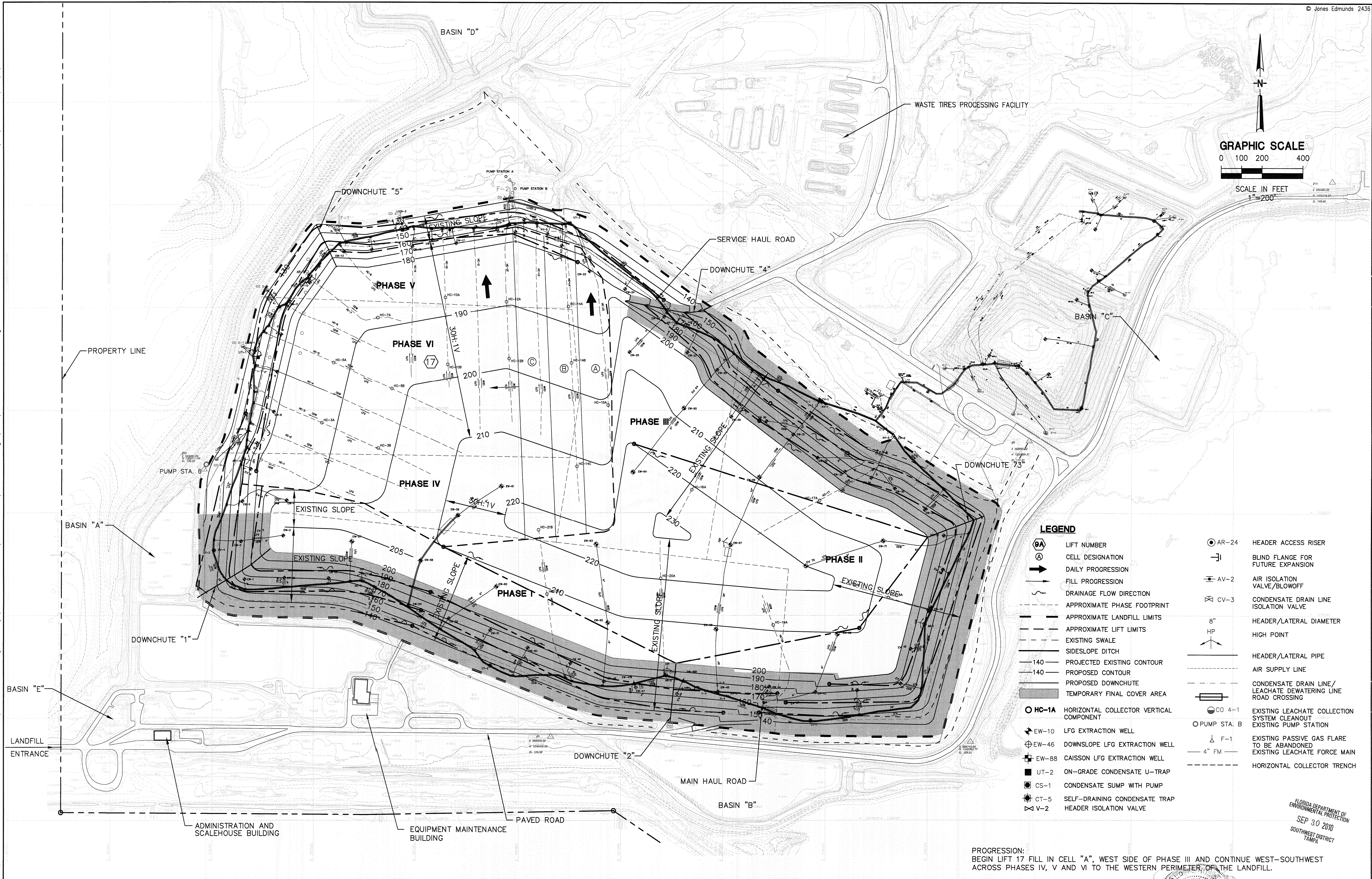
PHASES I-VI OPERATING SEQUENCE
PHASES I TO IV - LIFTS 13 TO 16

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY DONALD E. HOLLINGS P.E. # 65058	DATE SEP 2010 SCALE AS SHOWN	PROJECT NO. 08449-030-04 DWG. NO. 10
---	---------------------------------------	---

Plotted: 9/14/10 12:51pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-11.dwg

LAST SAVED: 9/13/2010 7:19 PM JKRAMER



PROGRESSION:
BEGIN LIFT 17 FILL IN CELL "A", WEST SIDE OF PHASE III AND CONTINUE WEST-SOUTHWEST
ACROSS PHASES IV, V AND VI TO THE WESTERN PERIMETER OF THE LANDFILL.

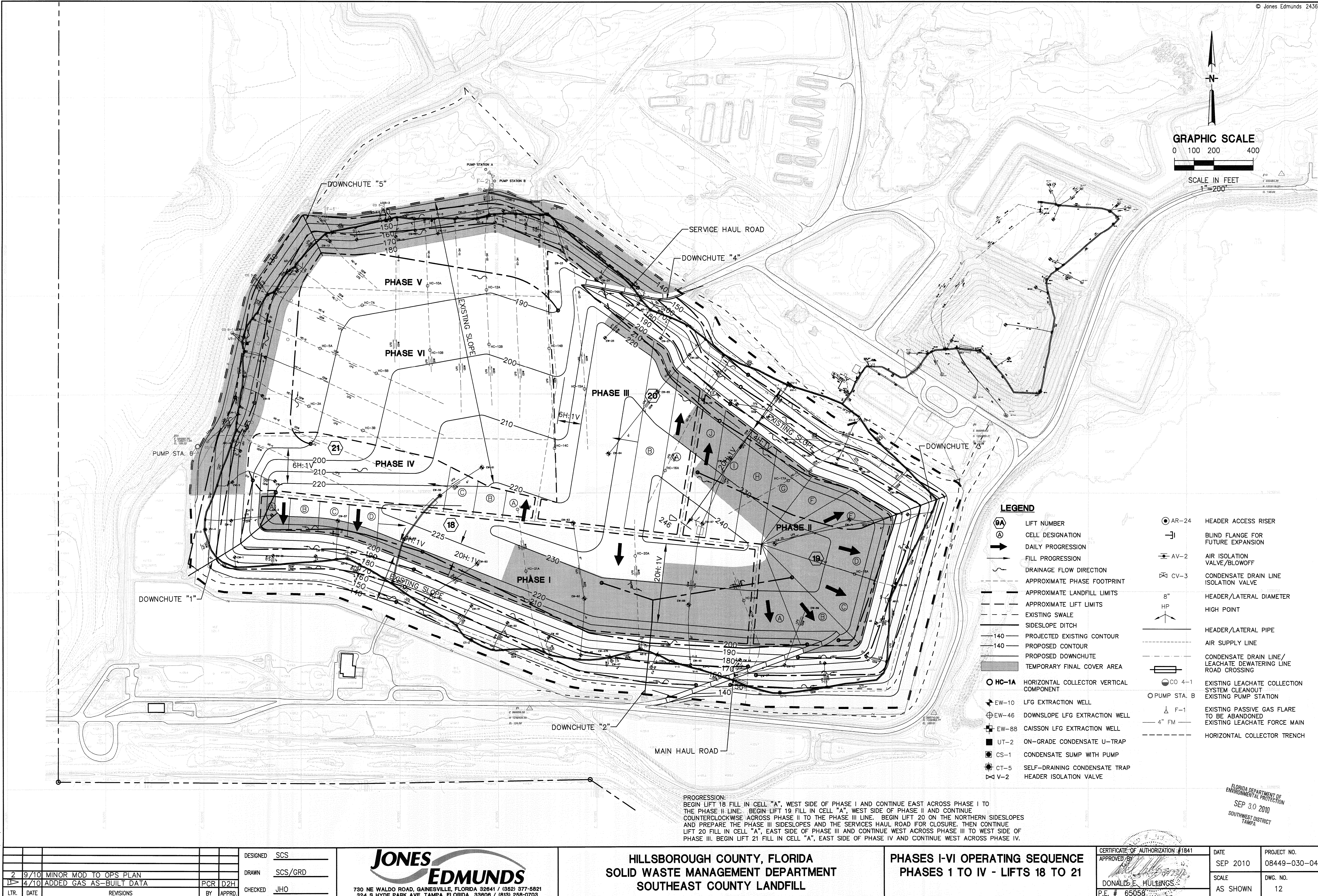
LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED
2	9/10	MINOR MOD TO OPS PLAN			SCS
4	10	ADDED GAS AS-BUILT DATA	PCR	D2H	JHO

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
PHASES V AND VI - LIFT 17

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY: DONALD E. HULLINGS P.E. # 65058	DATE SEP 2010 SCALE AS SHOWN	PROJECT NO. 08449-030-04 DWG. NO. 11
---	---------------------------------------	---



JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
PHASES 1 TO IV - LIFTS 18 TO 21

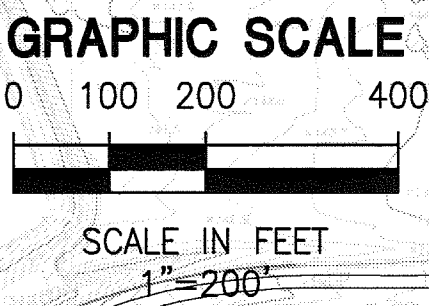
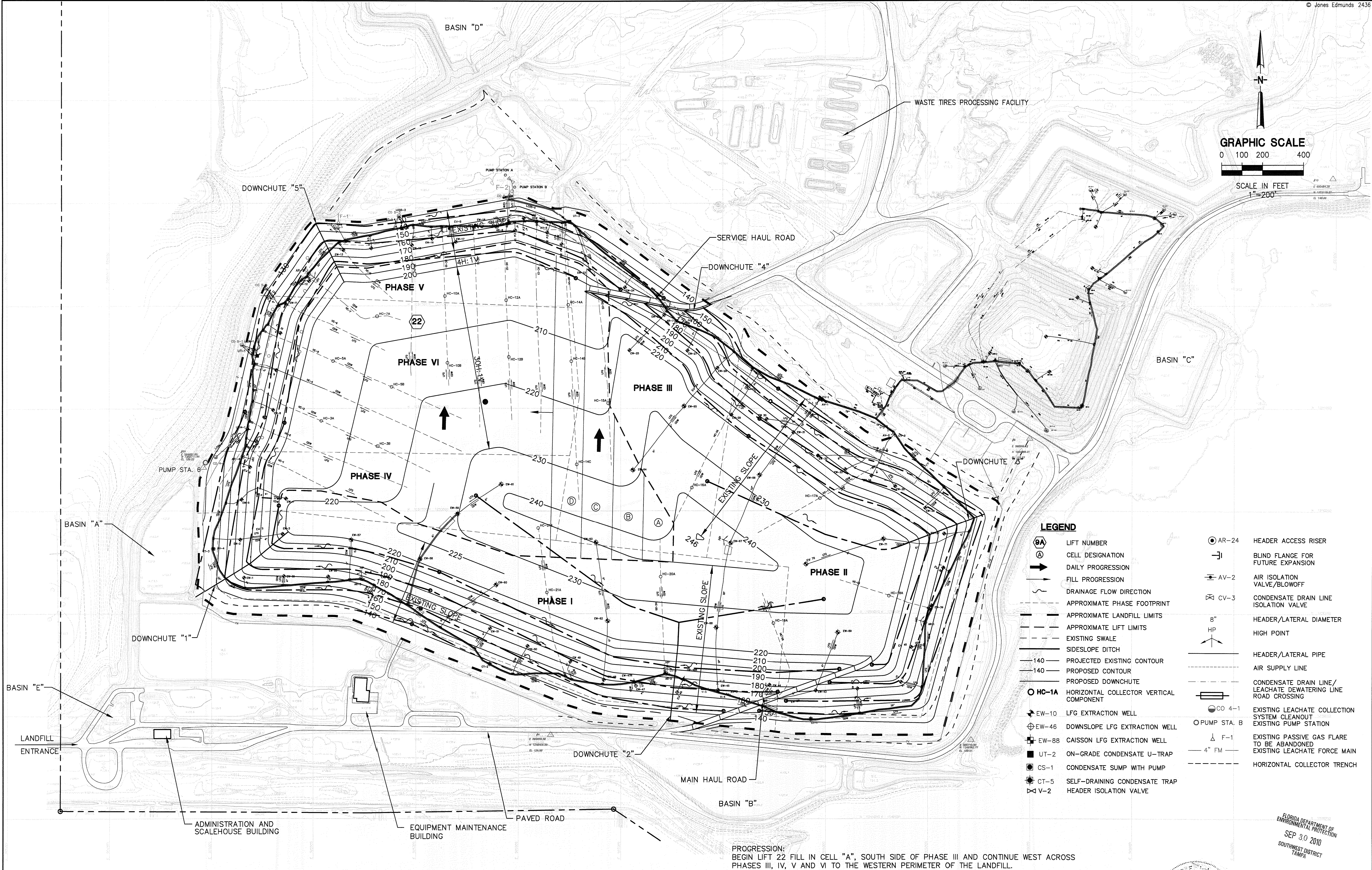
CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY: [Signature]	SEP 2010	08449-030-04
DONALD E. HULINGS	SCALE	DWG. NO.
P.E. # 65058	AS SHOWN	12

Plotted: 9/14/10 12:48pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-13.dwg

LAST SAVED: 9/13/2010 7:27 PM JKRAMER

© Jones Edmunds 2436



LEGEND			
9A	LIFT NUMBER	AR-24	HEADER ACCESS RISER
A	CELL DESIGNATION	BL	BLIND FLANGE FOR FUTURE EXPANSION
→	DAILY PROGRESSION	AV-2	AIR ISOLATION VALVE/BLOWOFF
→	FILL PROGRESSION	CV-3	CONDENSATE DRAIN LINE ISOLATION VALVE
~	DRAINAGE FLOW DIRECTION	8"	HEADER/LATERAL DIAMETER
- - -	APPROXIMATE PHASE FOOTPRINT	HP	HIGH POINT
- - -	APPROXIMATE LANDFILL LIMITS	HP	HEADER/LATERAL PIPE
- - -	APPROXIMATE LIFT LIMITS	AS	AIR SUPPLY LINE
- - -	EXISTING SWALE	CD	CONDENSATE DRAIN LINE/LEACHATE DEWATERING LINE ROAD CROSSING
- - -	SIDESLOPE DITCH	CO 4-1	EXISTING LEACHATE COLLECTION SYSTEM CLEANOUT
140	PROJECTED EXISTING CONTOUR	PUMP STA. B	EXISTING PUMP STATION
140	PROPOSED CONTOUR	F-1	EXISTING PASSIVE GAS FLARE TO BE ABANDONED
HC-1A	PROPOSED DOWNCHUTE	4" FM	EXISTING LEACHATE FORCE MAIN
HC-1A	HORIZONTAL COLLECTOR VERTICAL COMPONENT	HC	HORIZONTAL COLLECTOR TRENCH
EW-10	LFG EXTRACTION WELL		
EW-46	DOWNSLOPE LFG EXTRACTION WELL		
EW-88	CAISSON LFG EXTRACTION WELL		
UT-2	ON-GRADE CONDENSATE U-TRAP		
CS-1	CONDENSATE SUMP WITH PUMP		
CT-5	SELF-DRAINING CONDENSATE TRAP		
V-2	HEADER ISOLATION VALVE		

PROGRESSION:
BEGIN LIFT 22 FILL IN CELL "A", SOUTH SIDE OF PHASE III AND CONTINUE WEST ACROSS PHASES III, IV, V AND VI TO THE WESTERN PERIMETER OF THE LANDFILL.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

LTR.	DATE	REVISIONS	BY	APPRD.
2	9/10	MINOR MOD TO OPS PLAN		
4	10	ADDED GAS AS-BUILT DATA	PCR	D2H

DESIGNED	SCS
DRAWN	SCS/GRD
CHECKED	JHO

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 268-0763

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
PHASES V AND VI - LIFT 22

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY: DONALD E. HULLINGS	SEP 2010	08449-030-04
P.E. # 65058	SCALE	DWG. NO.
	AS SHOWN	13

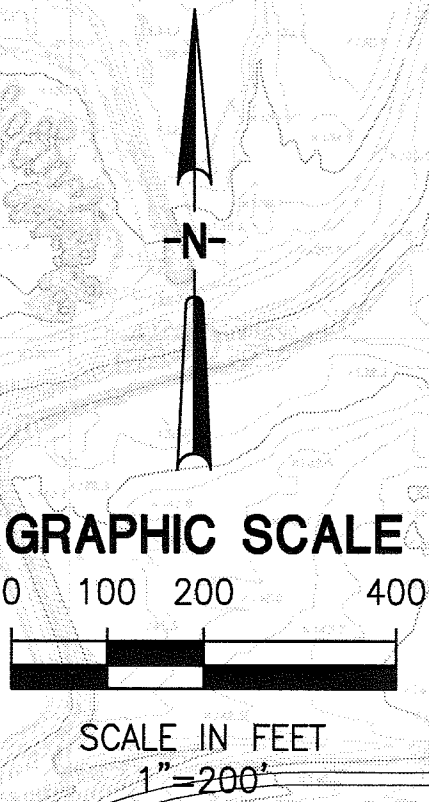
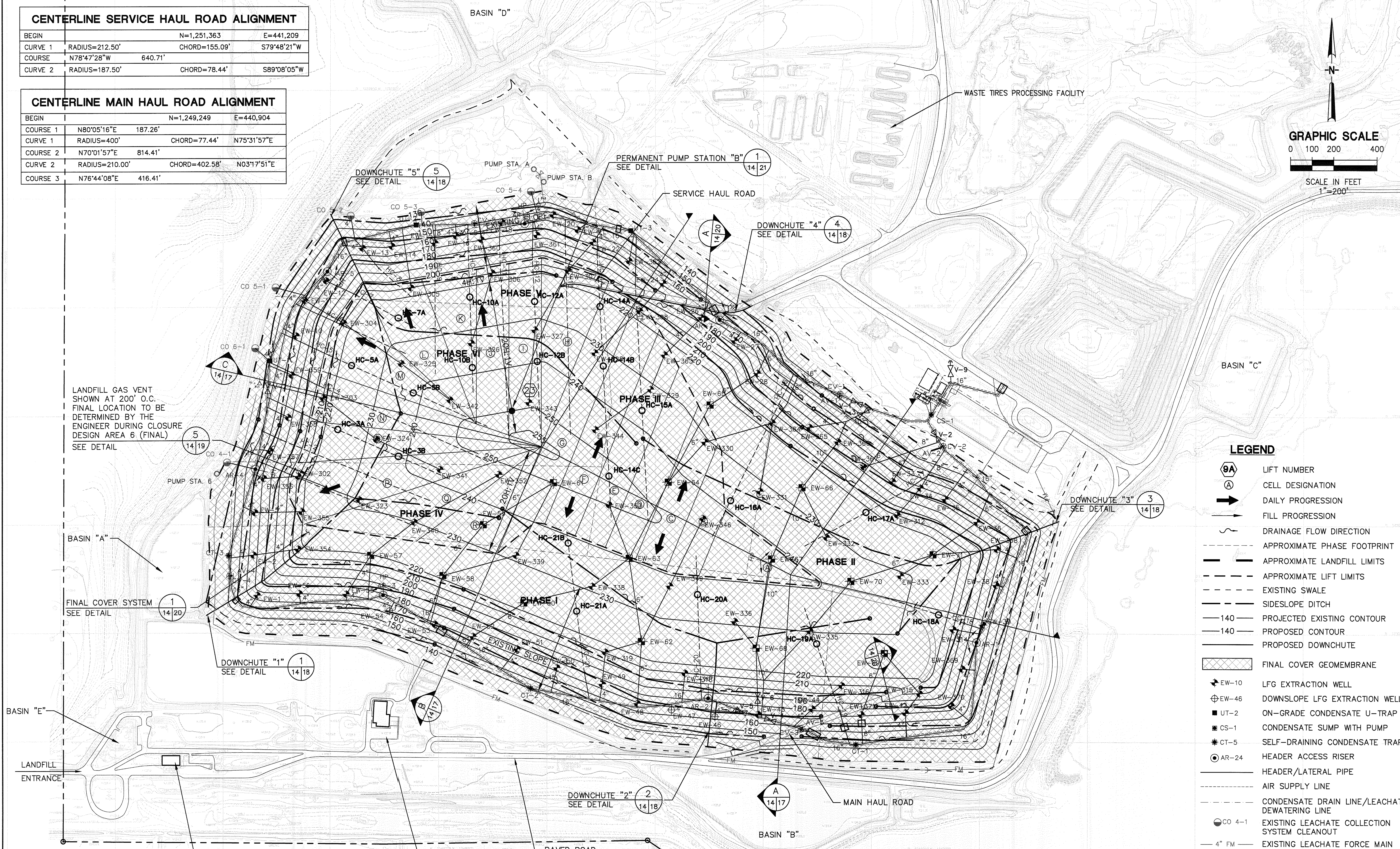
Plotted: 9/14/10 1:44pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-14.dwg

LAST SAVED: 9/14/2010 1:40 PM PUPSTILL

CENTERLINE SERVICE HAUL ROAD ALIGNMENT				
BEGIN	N=1,251,363		E=441,209	
CURVE 1	RADIUS=212.50'		CHORD=155.09'	S79°48'21"W
COURSE	N78°47'28"W	640.71'		
CURVE 2	RADIUS=187.50'		CHORD=78.44'	S89°08'05"W

CENTERLINE MAIN HAUL ROAD ALIGNMENT				
BEGIN	N=1,249,249		E=440,904	
COURSE 1	N80°05'16"E	187.26'		
CURVE 1	RADIUS=400'		CHORD=77.44'	N75°31'57"E
COURSE 2	N70°01'57"E	814.41'		
CURVE 2	RADIUS=210.00'		CHORD=402.58'	N03°17'51"E
COURSE 3	N76°44'08"E	416.41'		



- LEGEND**
- 9A LIFT NUMBER
 - A CELL DESIGNATION
 - ➔ DAILY PROGRESSION
 - ➔ FILL PROGRESSION
 - ~ DRAINAGE FLOW DIRECTION
 - - - - - APPROXIMATE PHASE FOOTPRINT
 - - - - - APPROXIMATE LANDFILL LIMITS
 - - - - - APPROXIMATE LIFT LIMITS
 - - - - - EXISTING SWALE
 - - - - - SIDESLOPE DITCH
 - 140 PROJECTED EXISTING CONTOUR
 - 140 PROPOSED CONTOUR
 - - - - - PROPOSED DOWNCHUTE
 - [Hatched Box] FINAL COVER GEOMEMBRANE
 - EW-10 LFG EXTRACTION WELL
 - EW-46 DOWNSLOPE LFG EXTRACTION WELL
 - UT-2 ON-GRADE CONDENSATE U-TRAP
 - CS-1 CONDENSATE SUMP WITH PUMP
 - CT-5 SELF-DRAINING CONDENSATE TRAP
 - AR-24 HEADER ACCESS RISER
 - - - - - HEADER/LATERAL PIPE
 - - - - - AIR SUPPLY LINE
 - - - - - CONDENSATE DRAIN LINE/LEACHATE DEWATERING LINE
 - CO 4-1 EXISTING LEACHATE COLLECTION SYSTEM CLEANOUT
 - 4" FM EXISTING LEACHATE FORCE MAIN

PROGRESSION:
BEGIN LIFT 23 FILL IN CELL "A", WEST SIDE OF PHASE II CONTINUE COUNTERCLOCKWISE AGAINST
PHASE II ACROSS PHASES V AND VI TO THE SOUTHWEST CORNER AGAINST PHASE IV.

DESIGNED	SCS
DRAWN	SCS/GRD
CHECKED	JHO
DATE	9/10
REVISIONS	MINOR MOD TO OPS PLAN

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

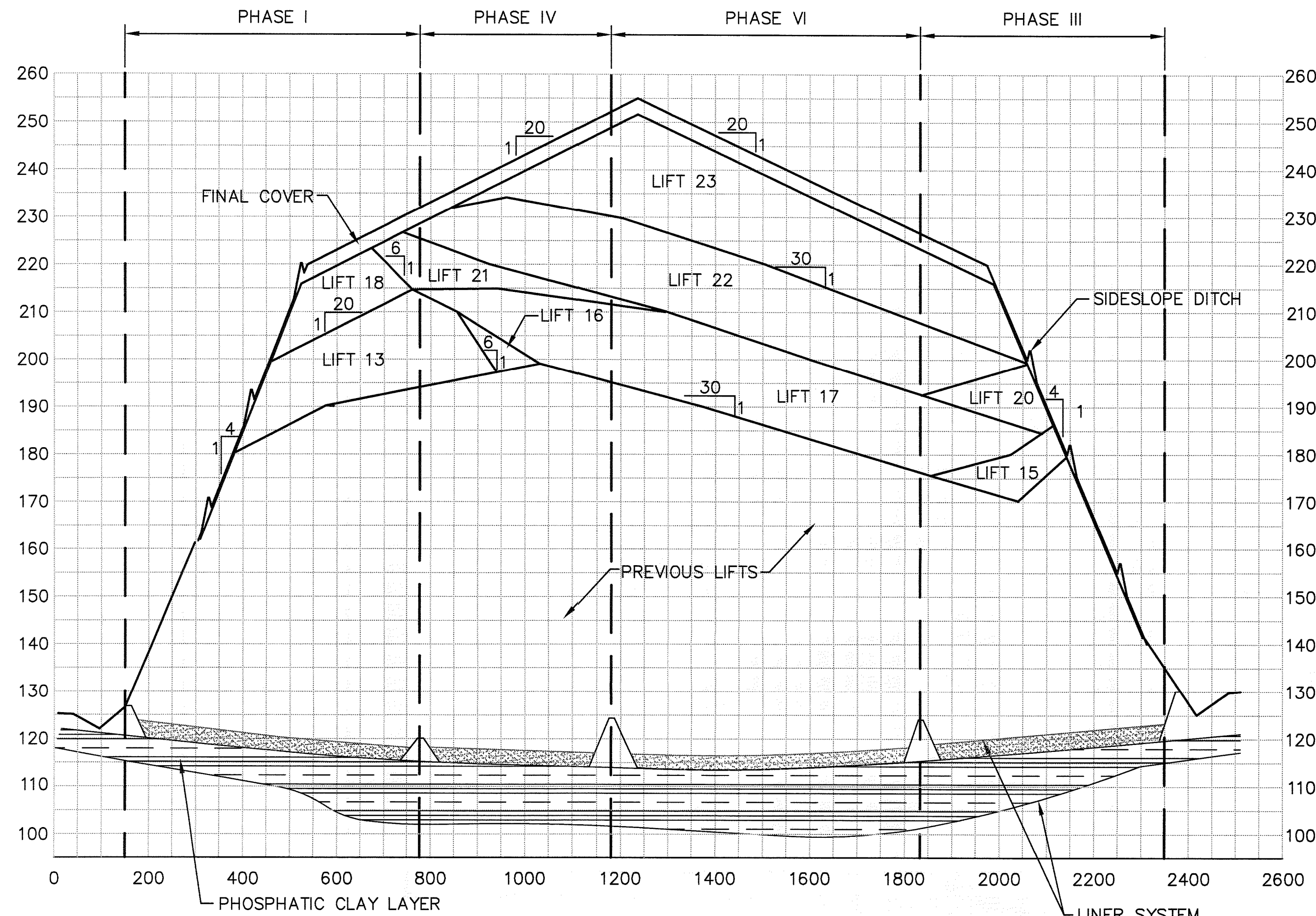
PHASES I-VI OPERATING SEQUENCE
PHASES V AND VI - LIFT 23 (FINAL LIFT)

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED: [Signature]	SEP 2010	08449-030-04
DONALD E. HULLINGS	SCALE	DWG. NO.
P.E. # 65058	AS SHOWN	14

Plotted: 9/14/10 12:45pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-17.dwg

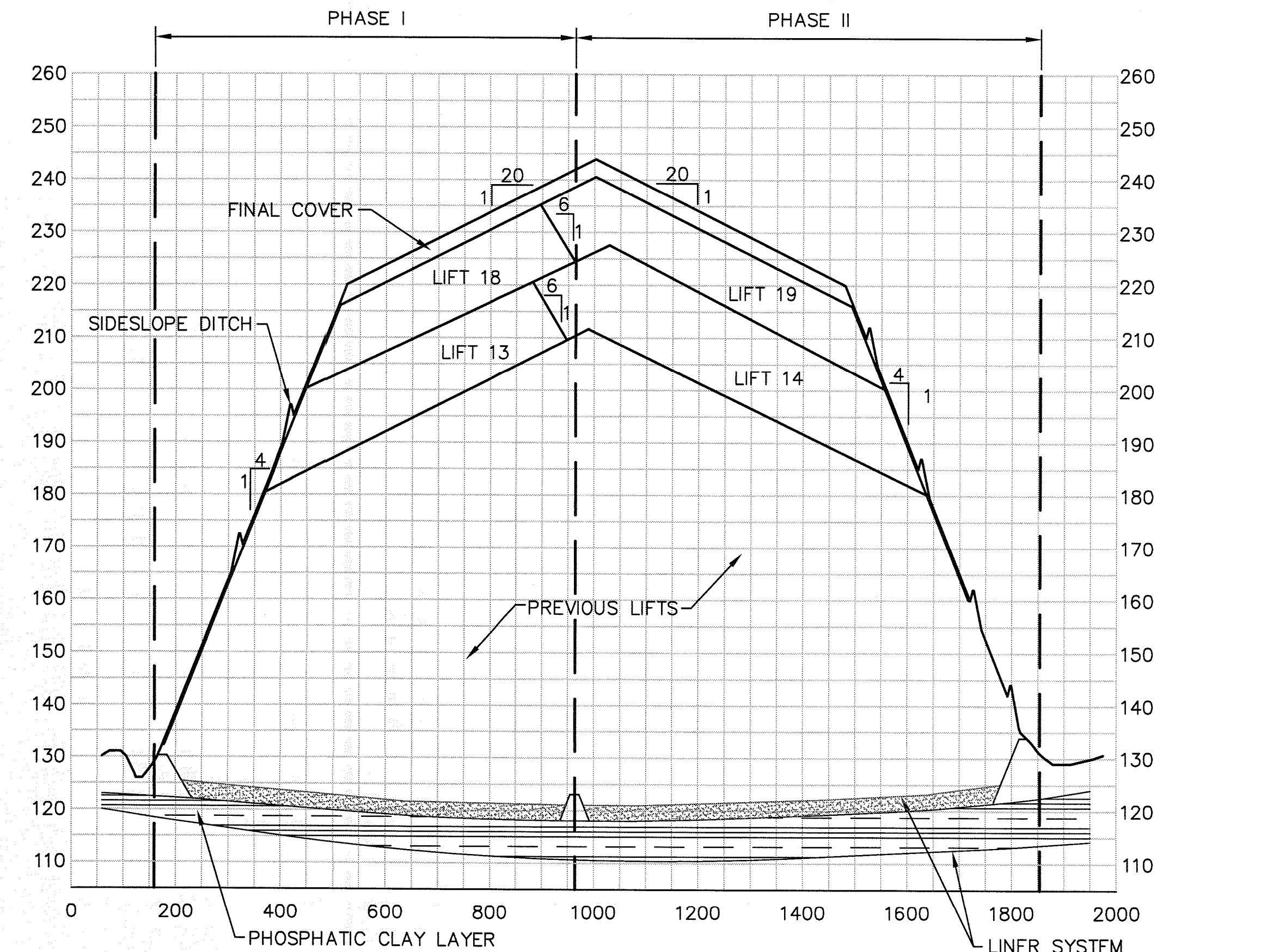
LAST SAVED: 9/13/2010 7:32 PM JKRAMER



LANDFILL CROSS SECTION

B
14/17

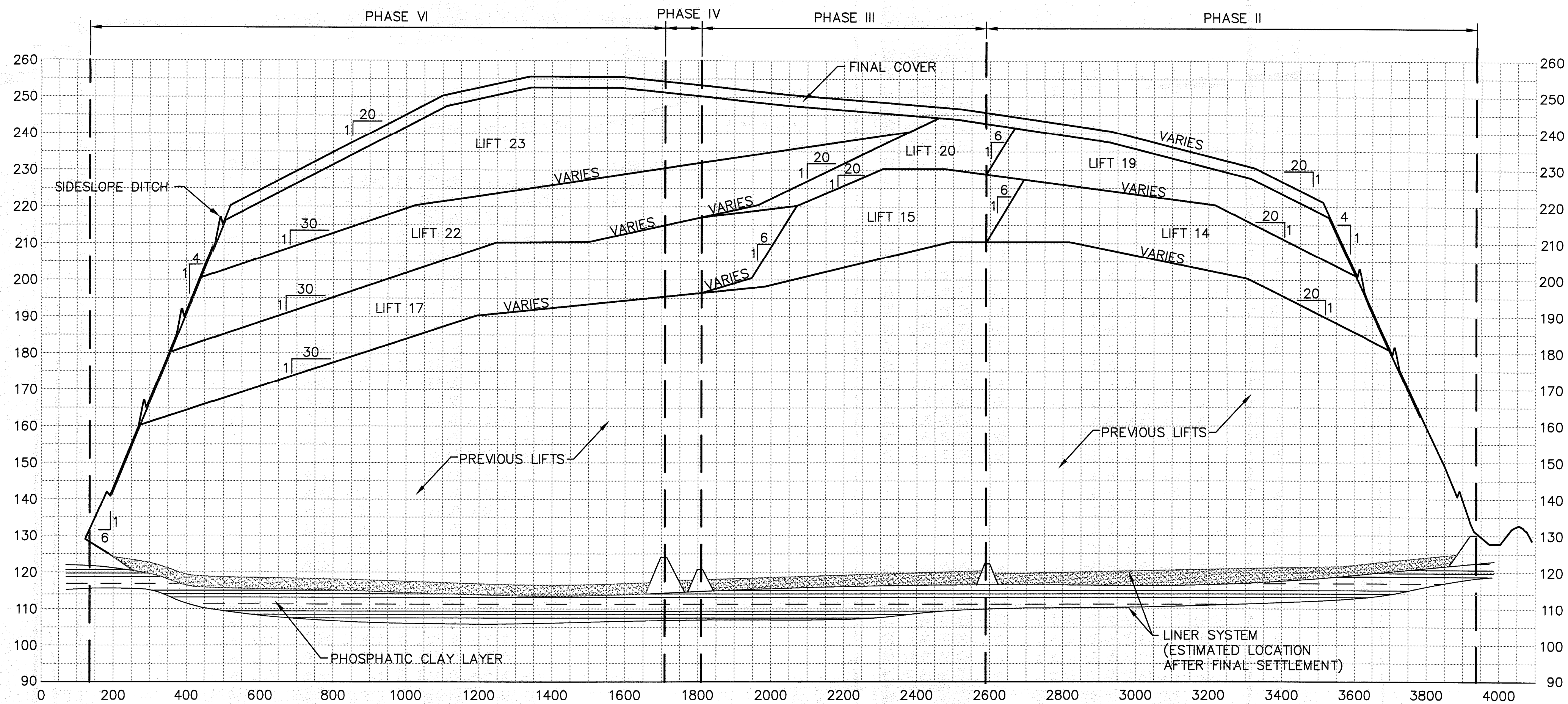
LINER SYSTEM
(ESTIMATED LOCATION
AFTER FINAL SETTLEMENT)



LANDFILL CROSS SECTION

A
14/17

LINER SYSTEM
(ESTIMATED LOCATION
AFTER FINAL SETTLEMENT)



LANDFILL CROSS SECTION

C
14/17

NOTE:
SOME SLOPES AND LIFT SIZE VARY DUE TO
SECTION CUT ORIENTATION. SEE DRAWING
NO. 14 FOR SECTION LOCATIONS

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

					DESIGNED	SCS
2	9/10	MINOR MOD TO OPS PLAN			DRAWN	SCS/GRD
LTR.	DATE	REVISIONS			BY	APPRD.
					CHECKED	JHO

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

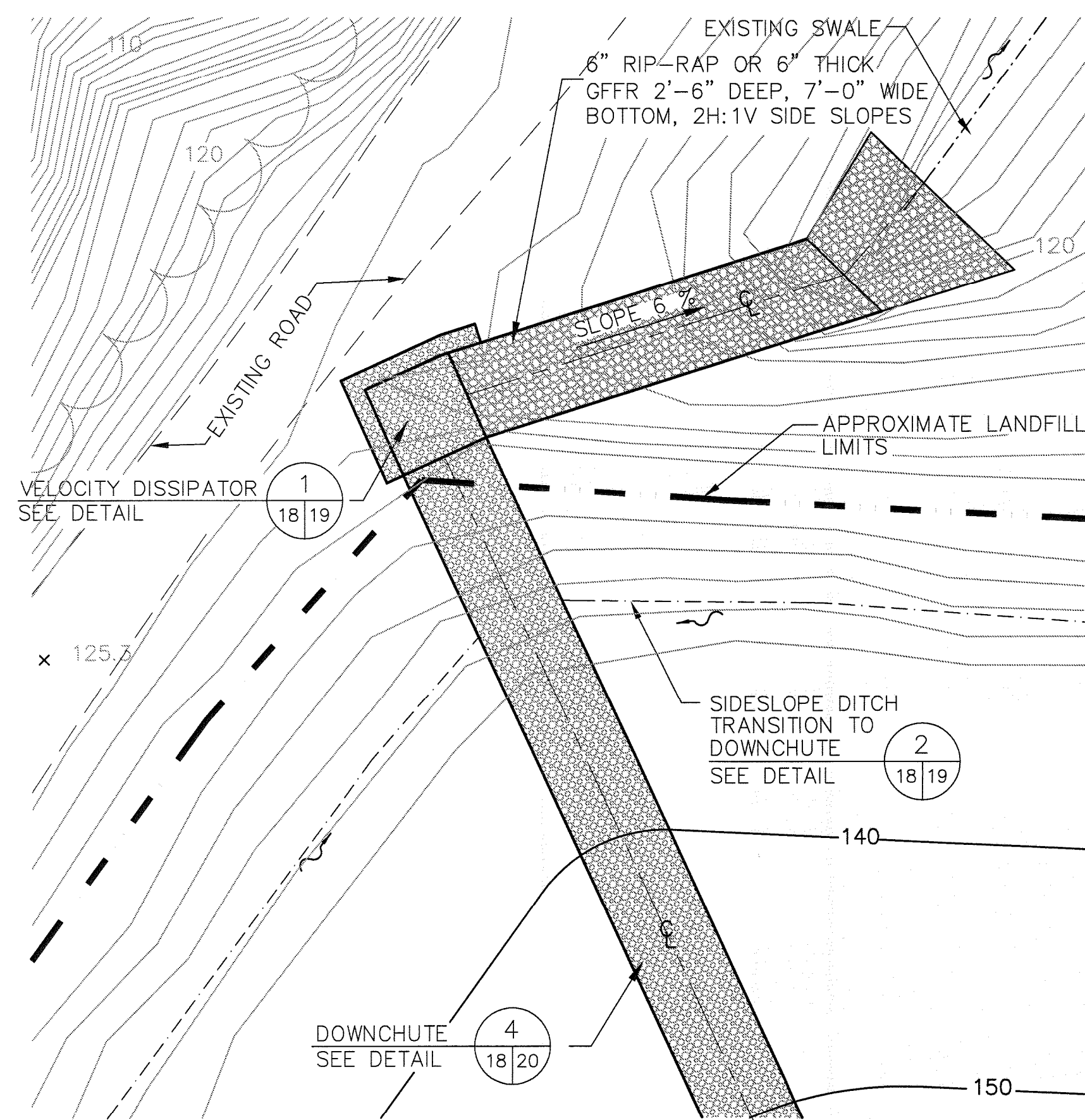
PHASES I-VI OPERATING SEQUENCE
LANDFILL SECTIONS

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	SEP 2010	08449-030-04
DONALD E. HULLINGS	SCALE	DWG. NO.
P.E. # 65088	AS SHOWN	17

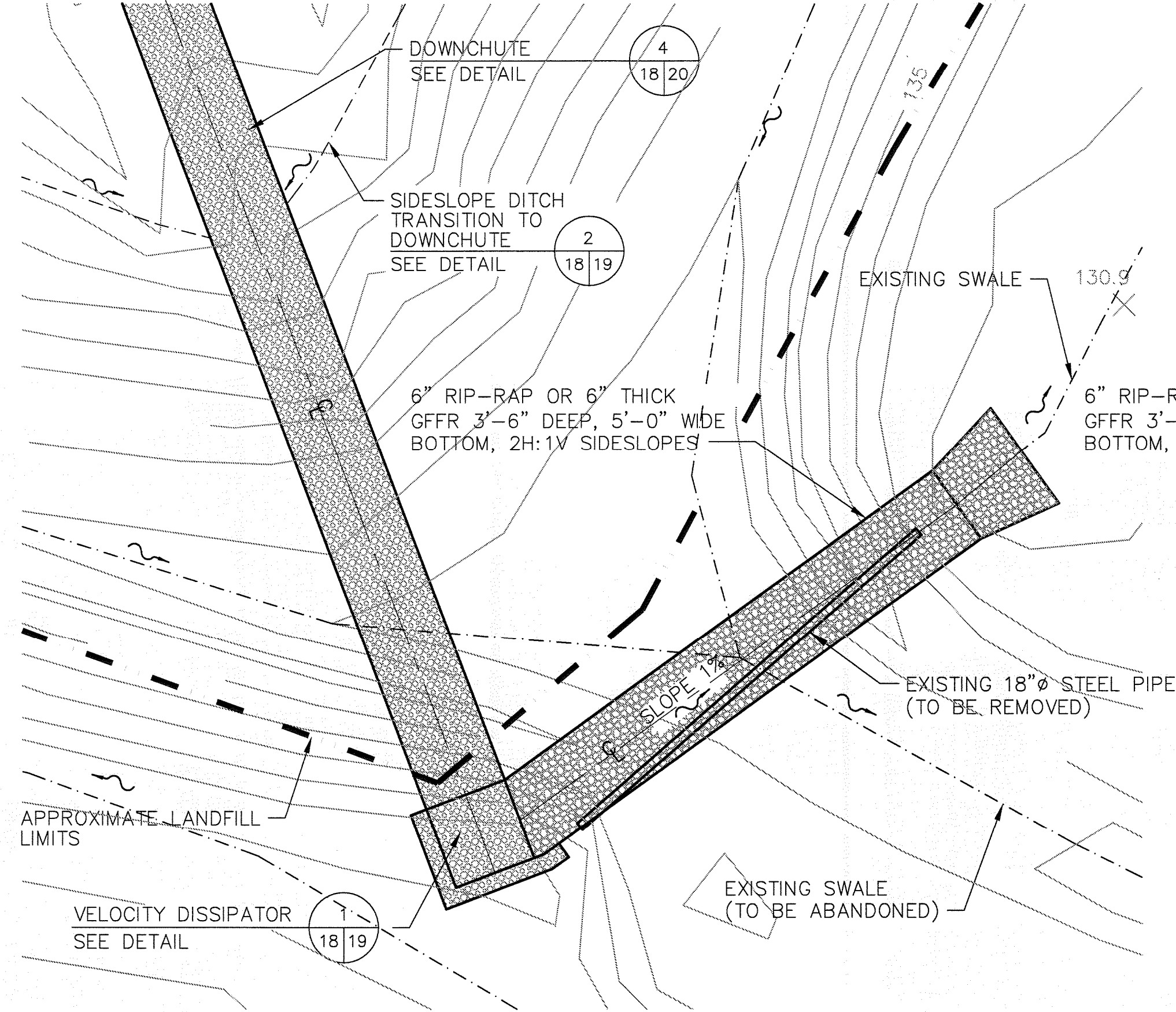
Plotted: 9/14/10 1:43pm pupstill

N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-18.dwg

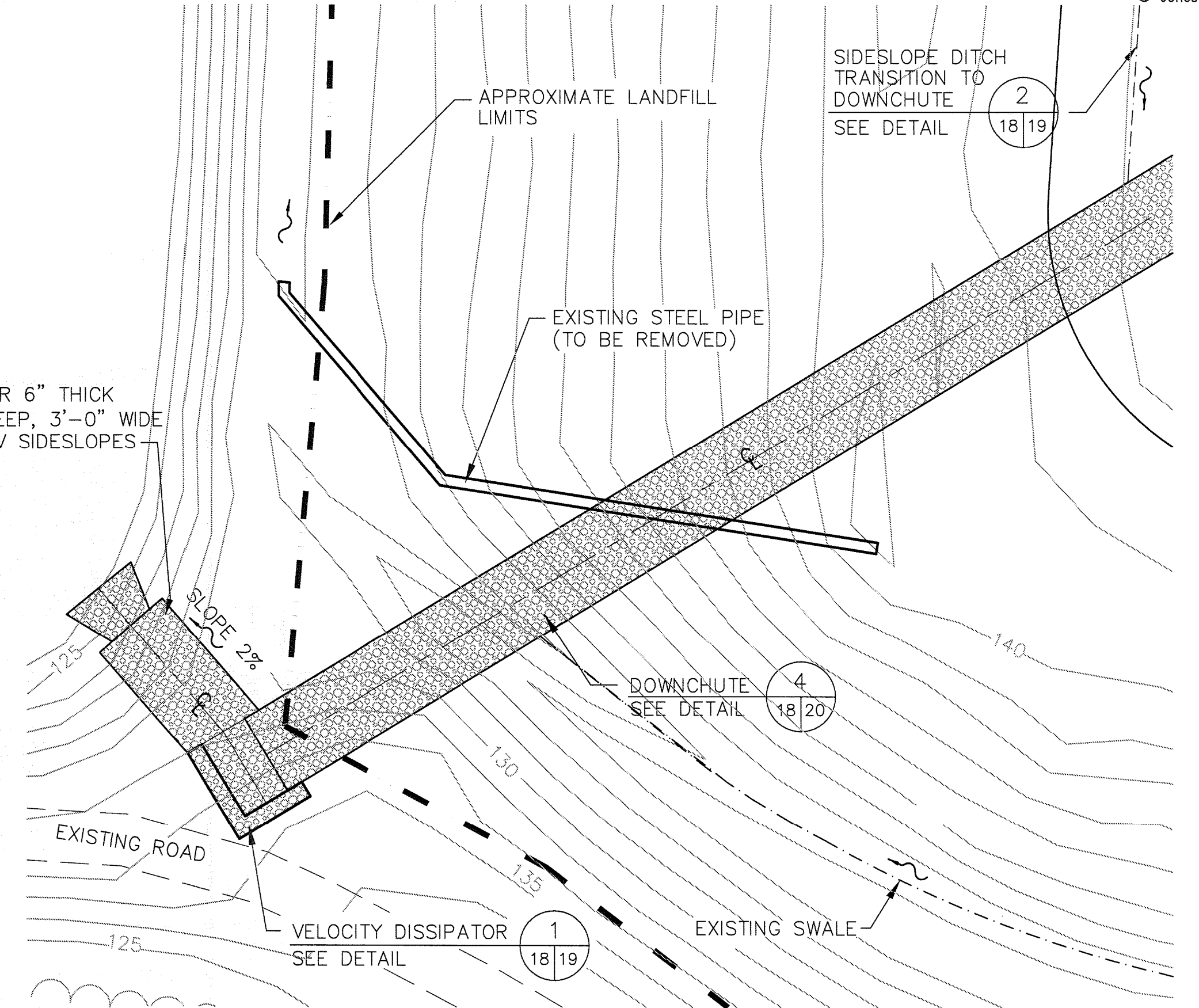
LAST SAVED: 9/14/2010 1:43 PM PUPSTILL



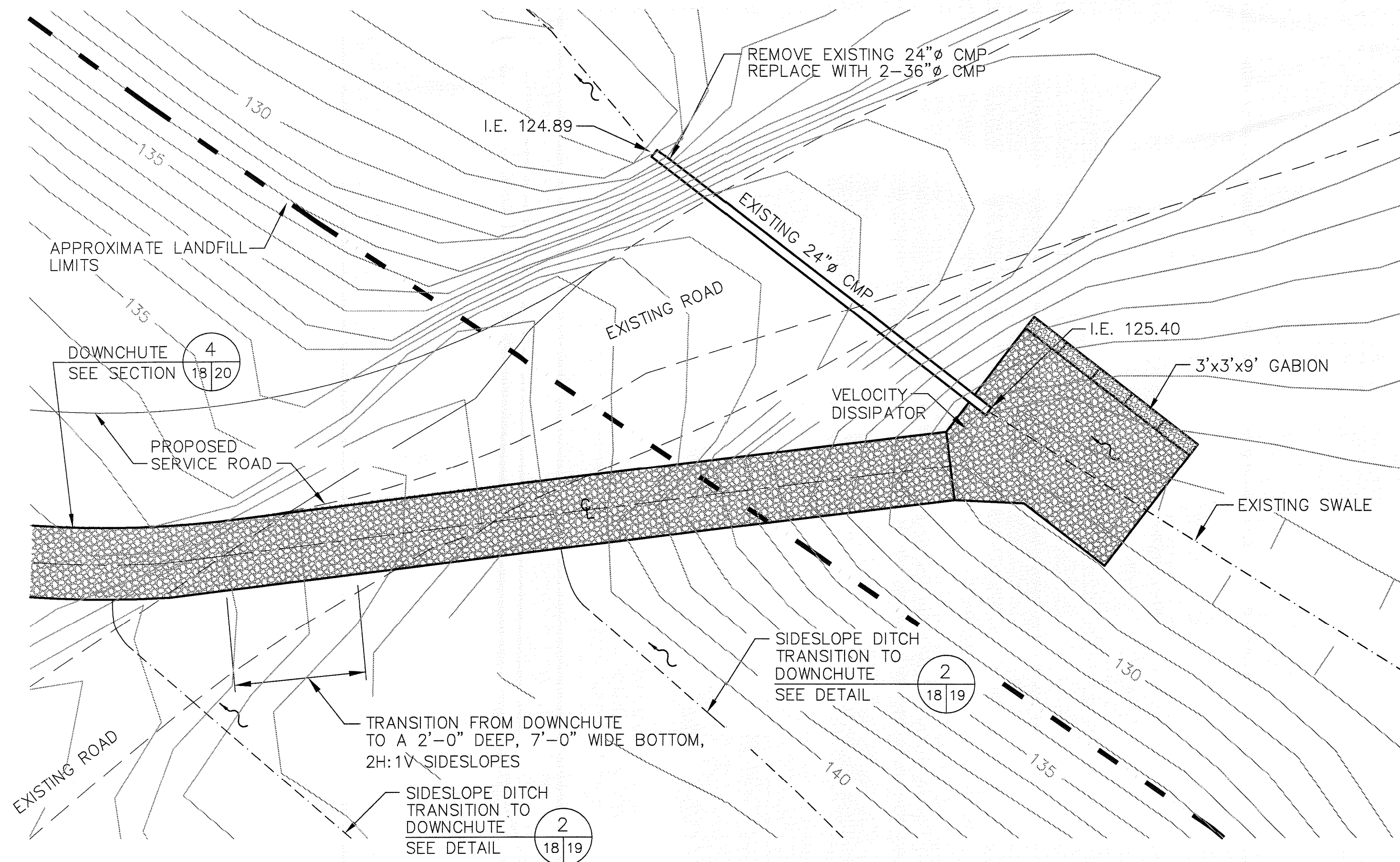
DOWNCHUTE #5 - PLAN DETAIL 5 14/18



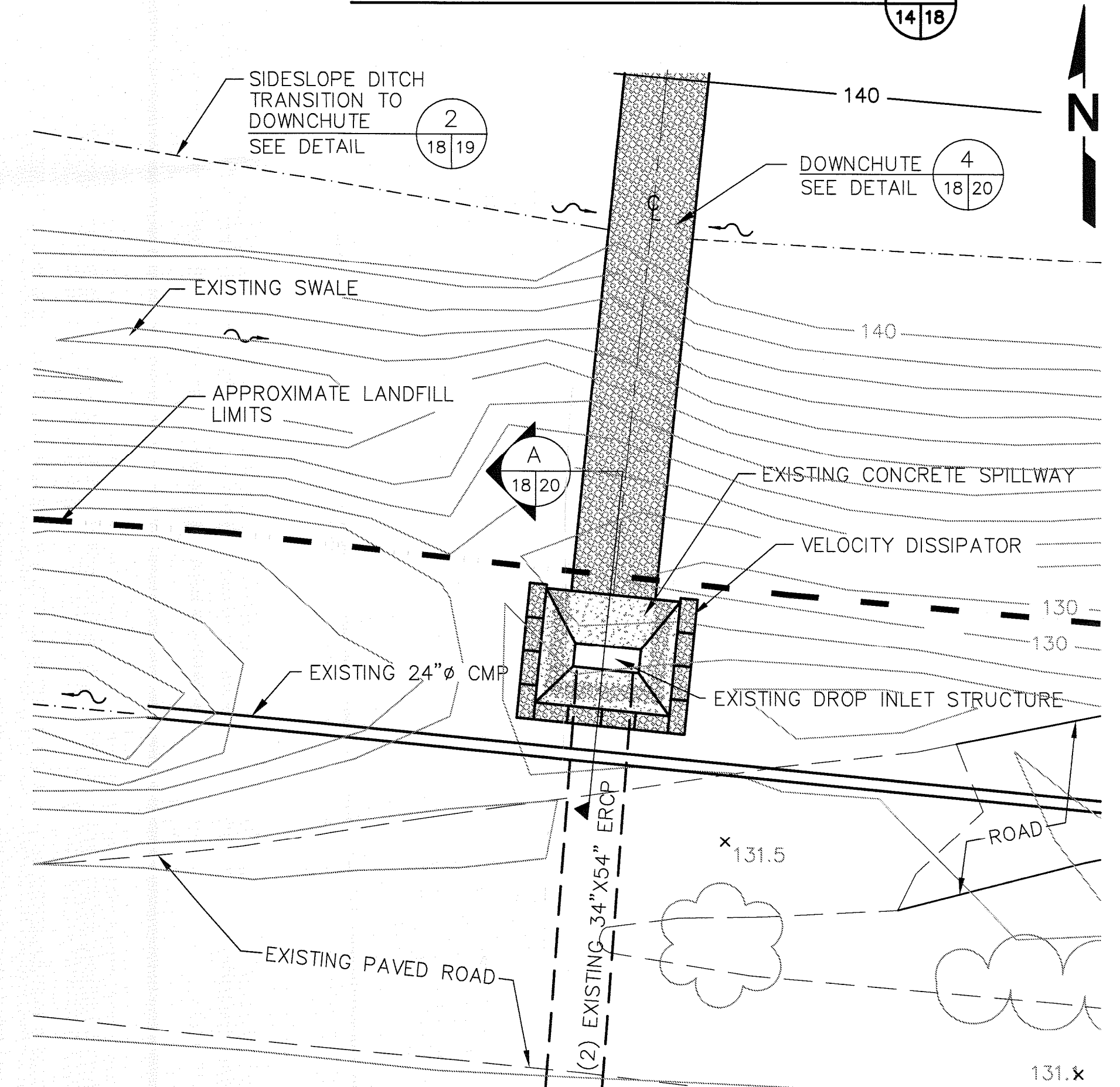
DOWNCHUTE #3 - PLAN DETAIL 3 14/18



DOWNCHUTE #1 - PLAN DETAIL 1 14/18



DOWNCHUTE #4 - PLAN DETAIL 4 14/18



DOWNCHUTE #2 - PLAN DETAIL 2 14/18

*GFFR - GROUT FILLED FABRIC REVETMENT

LTR.	DATE	REVISIONS	BY	APPR.
2	9/10	MINOR MOD TO OPS PLAN		

DESIGNED	SCS
DRAWN	SCS/GRD
CHECKED	JHO

JONES EDMUNDS

730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
DETAILS 1

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY DONALD E. HULTINOS P.E. # 65058	DATE SEP 2010 SCALE AS SHOWN	PROJECT NO. 08449-030-04 DWG. NO. 18
---	---------------------------------------	---

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

TYPICAL WORKING FACE CELL PLAN 3
4 | 19
NOT TO SCALE

VELOCITY DISSIPATOR SECTION

NOT TO SCALE

A
18 | 19

VELOCITY DISSIPATOR 1
18 | 19

NOTE: VELOCITY DISSIPATOR DESIGN APPLIES TO DOWNCHUTES 1,3,4 & 5

TYPICAL TEMPORARY FINAL COVER DETAIL

NOT TO SCALE



The diagram shows a circular cover with a diameter of 8.10. The cover is divided into two sections: a larger section labeled '5' and a smaller section labeled '1'. The sections are separated by a vertical line. The cover is shown in a perspective view, with the top surface and the side of the cover visible. The cover is labeled 'TYPICAL TEMPORARY FINAL COVER DETAIL' and 'NOT TO SCALE'.

SECTION B
NOT TO SCALE 19 | 19

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
SEP 30 2010
SOUTHWEST DISTRICT
TAMPA

						DESIGNED	SCS
						DRAWN	SCS/GRD
2	9/10	MINOR MOD TO OPS PLAN				CHECKED	JHO
LTR.	DATE	REVISIONS			BY	APPRD.	



730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE TAMPA, FLORIDA 33606 / (813) 258-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
DETAILS 2

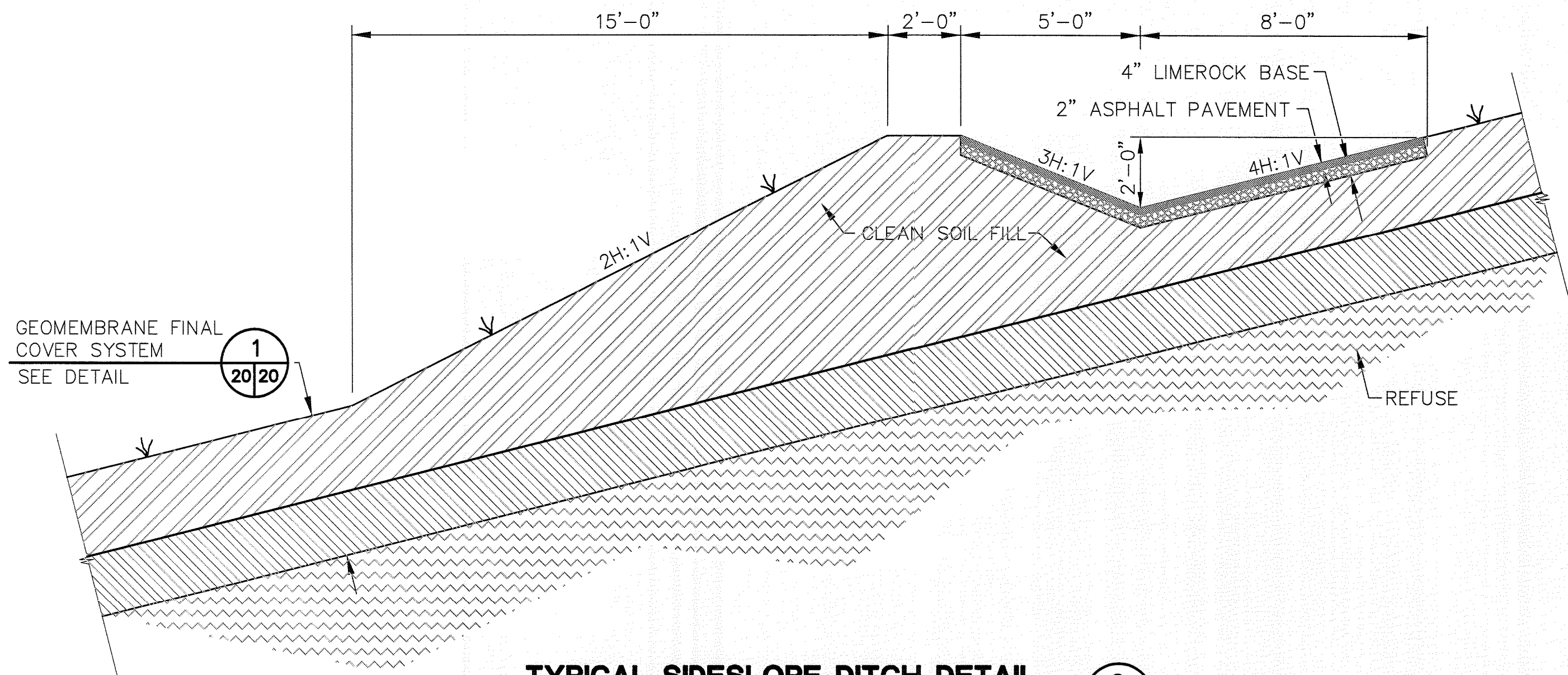
CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY  DONALD E. HOLLINGS	SEP 2010	08449-030-0
P.F. # 65058	SCALE	DWG. NO.
	AS SHOWN	19

Plotted: 9/14/10 12:45pm pupstill

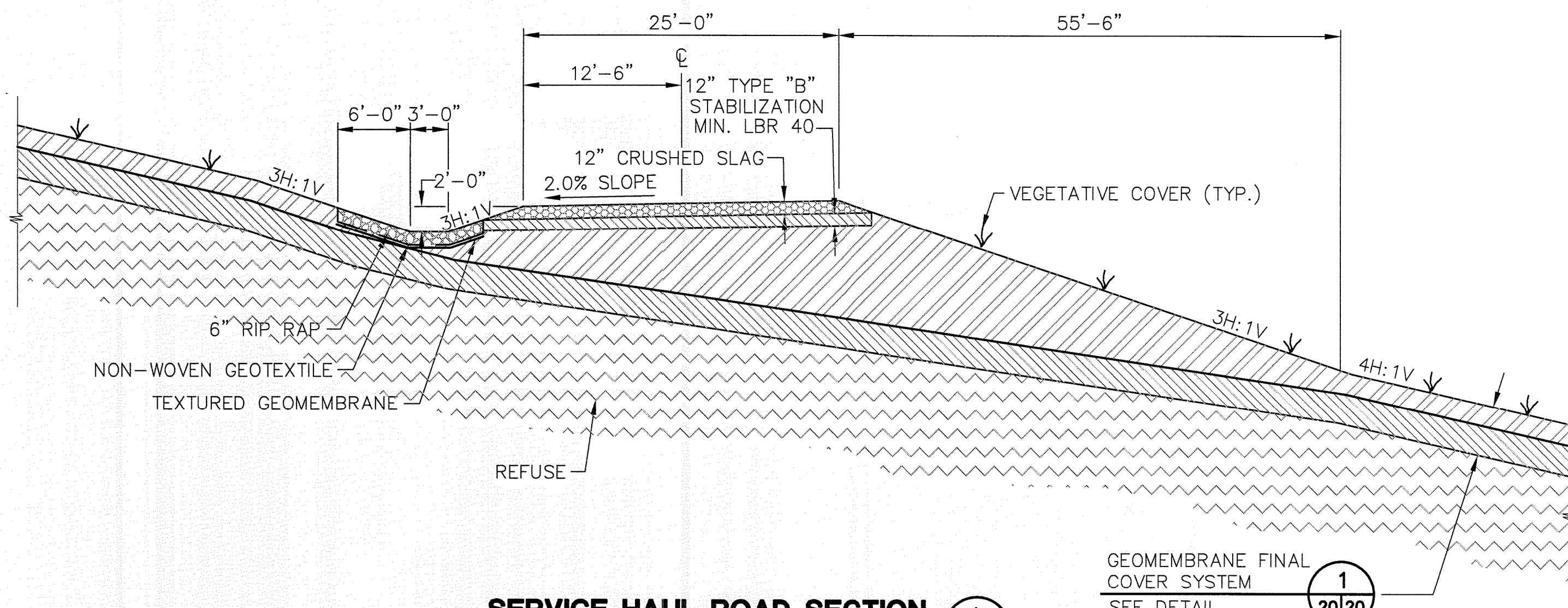
N:\08449 Hillsborough County\030 04 Ph I-IV Op Minor Mod\Permit Drawings\Civil\08449-030-04-20.dwg

LAST SAVED: 9/13/2010 7:37 PM JKRAMER

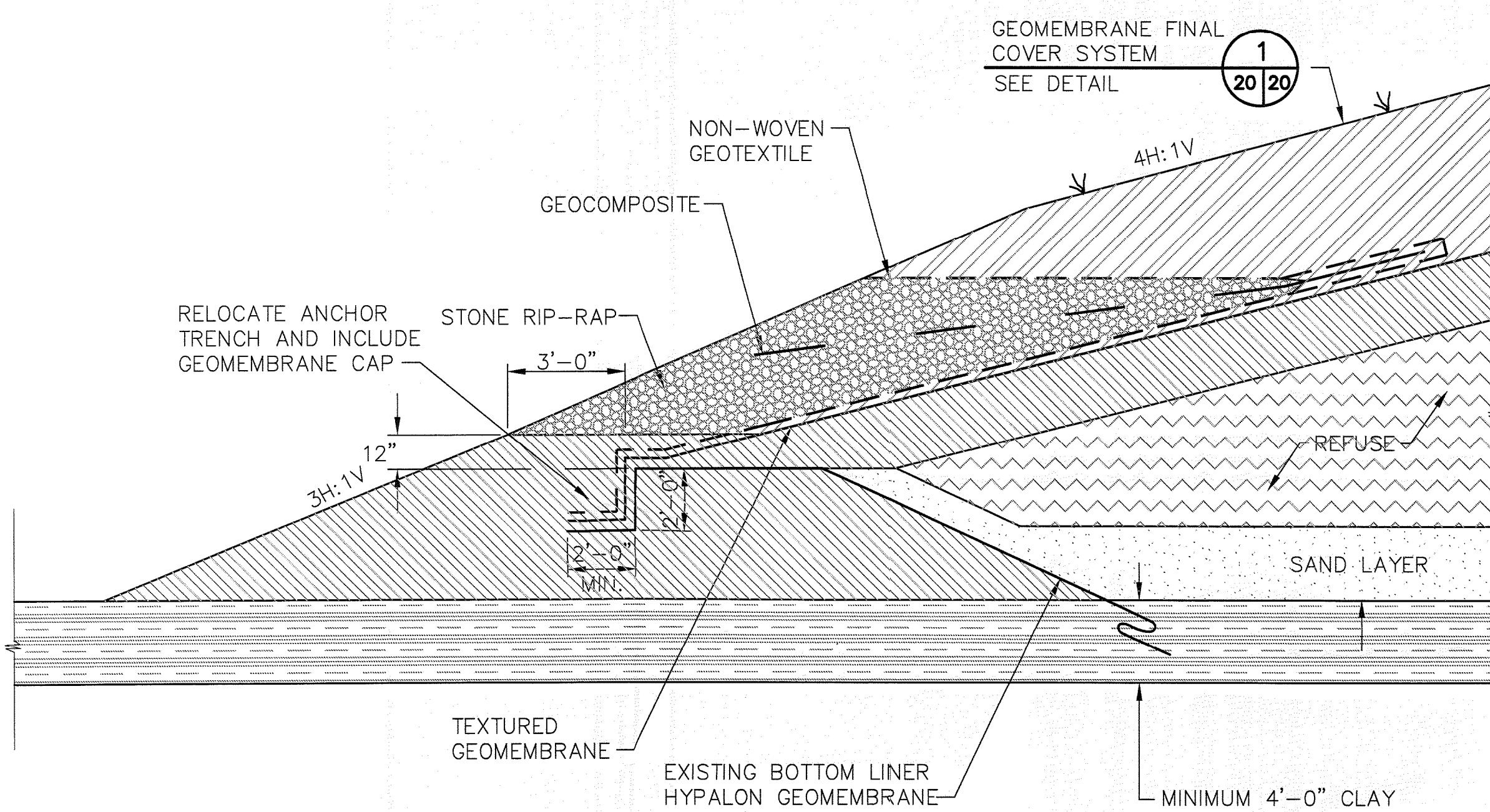
© Jones Edmunds 2436



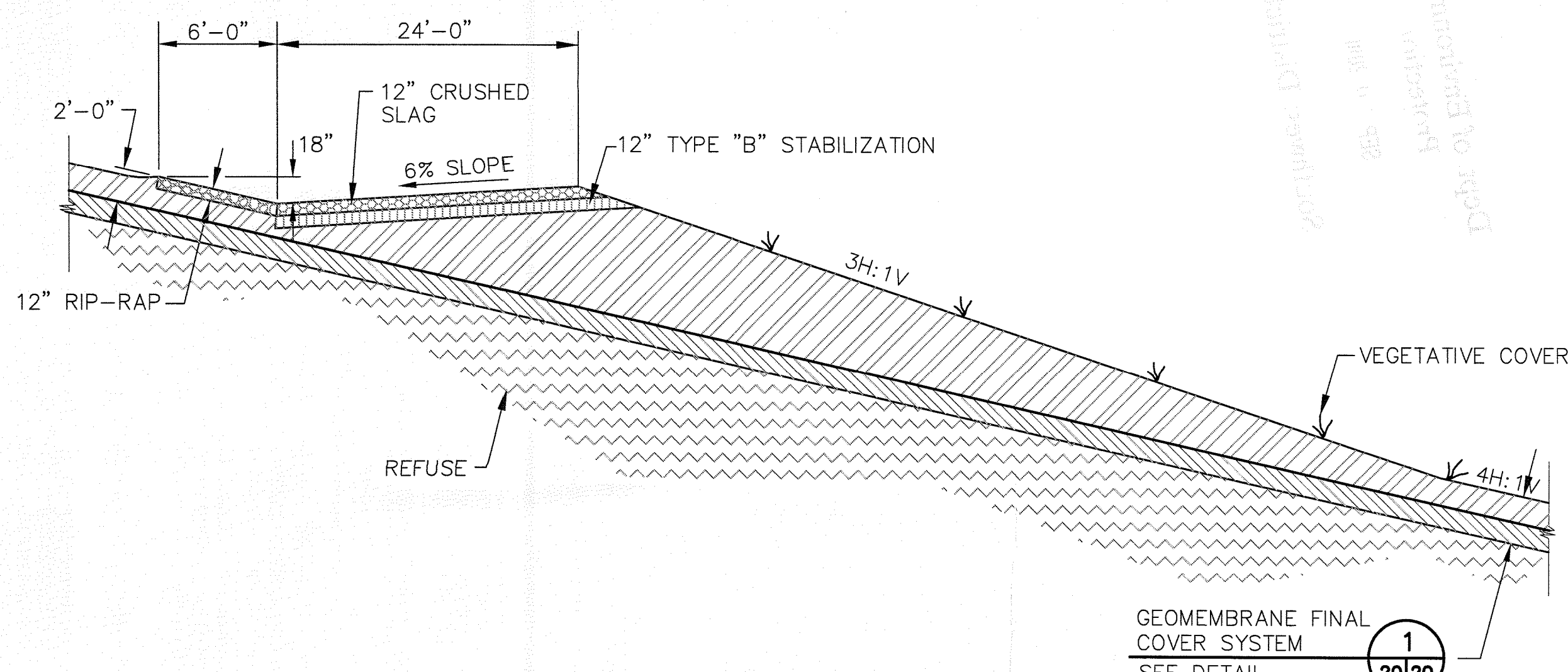
TYPICAL SIDESLOPE DITCH DETAIL
NOT TO SCALE



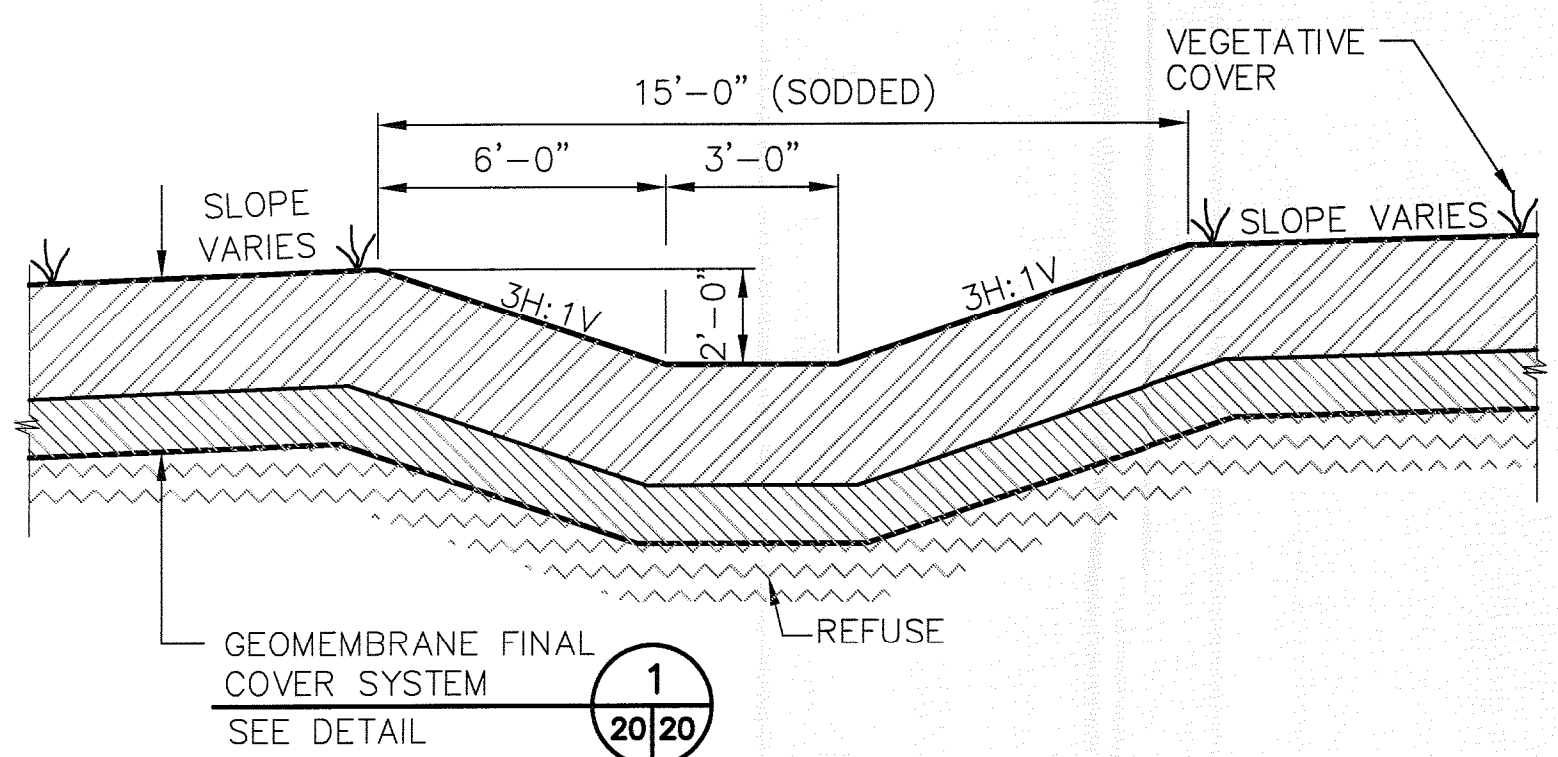
SERVICE HAUL ROAD SECTION
NOT TO SCALE



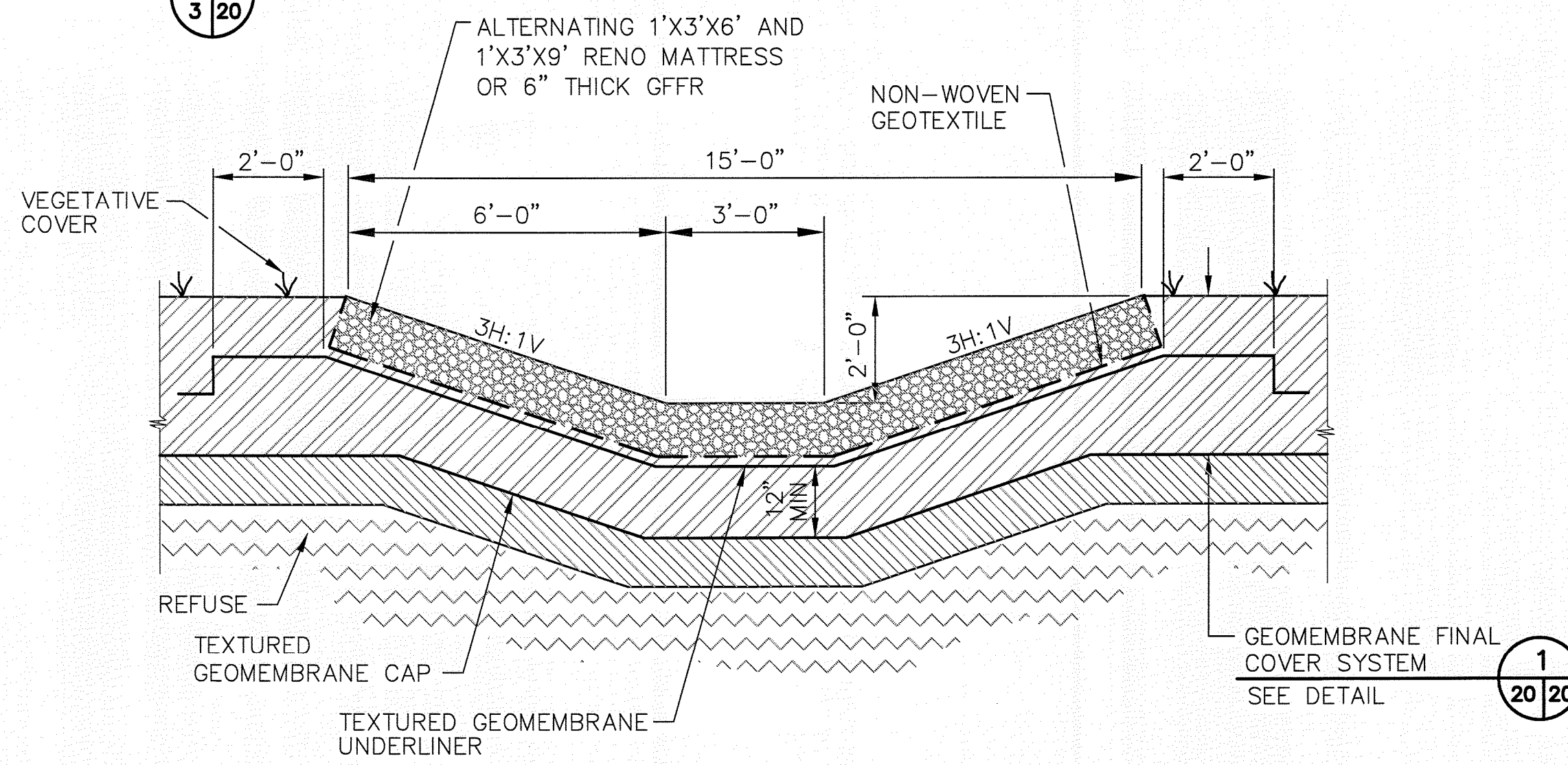
TYPICAL FINAL COVER TOE DRAIN DETAIL
NOT TO SCALE



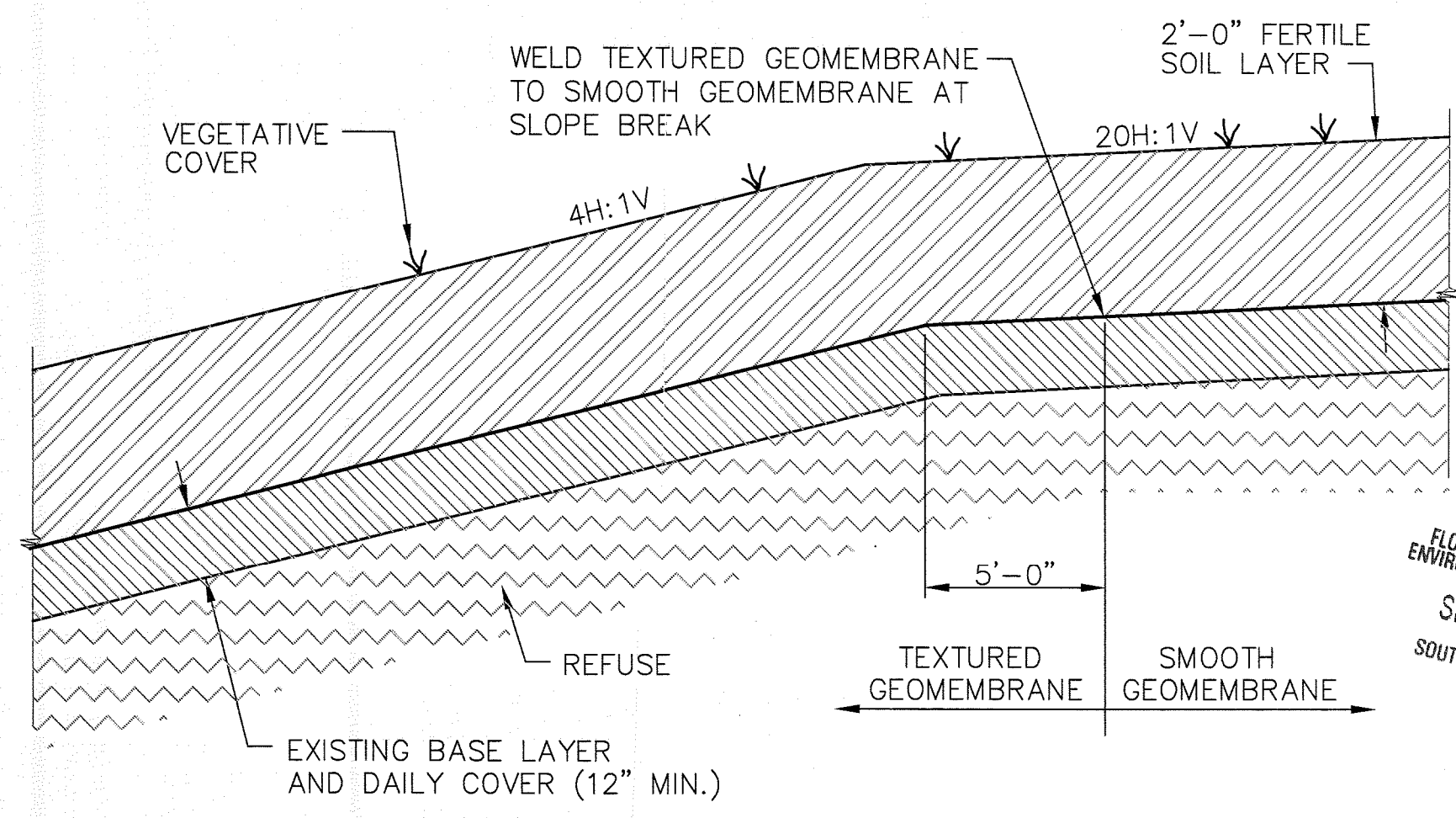
MAIN HAUL ROAD SECTION
NOT TO SCALE



TYPICAL TOP SLOPE DITCH DETAIL
NOT TO SCALE



TYPICAL DOWNCHUTE DETAIL
NOT TO SCALE



NOTE: TEXTURED GEOMEMBRANE TO BE INSTALLED ON SLOPES EXCEEDING 20H:1V AND SMOOTH GEOMEMBRANE TO BE INSTALLED ON SLOPES LESS THAN OR EQUAL TO 20H:1V

TYPICAL GEOMEMBRANE FINAL COVER SYSTEM DETAIL
NOT TO SCALE

*GFFR - GROUT FILLED FABRIC REVETMENT

					DESIGNED	<u>SCS</u>
2	9/10	MINOR MOD TO OPS PLAN			DRAWN	<u>SCS/GRD</u>
LTR.	DATE	REVISIONS			BY	APPRD.
					CHECKED	<u>JHO</u>

JONES EDMUNDS
780 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
324 S HYDE PARK AVE, TAMPA, FLORIDA 33606 / (813) 288-0703

HILLSBOROUGH COUNTY, FLORIDA
SOLID WASTE MANAGEMENT DEPARTMENT
SOUTHEAST COUNTY LANDFILL

PHASES I-VI OPERATING SEQUENCE
DETAILS 3

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY DONALD E. HUIJINGS P.E. # 65058	DATE SEP 2010	PROJECT NO. 08449-030-04
SCALE AS SHOWN	DWG. NO. 20	