

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

**PART III – FACILITY INVESTIGATION AND DESIGN
ATTACHMENT C3
DRAINAGE SYSTEM PLANS AND DETAILS**

Prepared for

Waste Management of Texas, Inc.

April 2012

Revised August 2012



Prepared by

BIGGS & MATHEWS ENVIRONMENTAL

1700 Robert Road, Suite 100 ♦ Mansfield, Texas 76063 ♦ 817-563-1144

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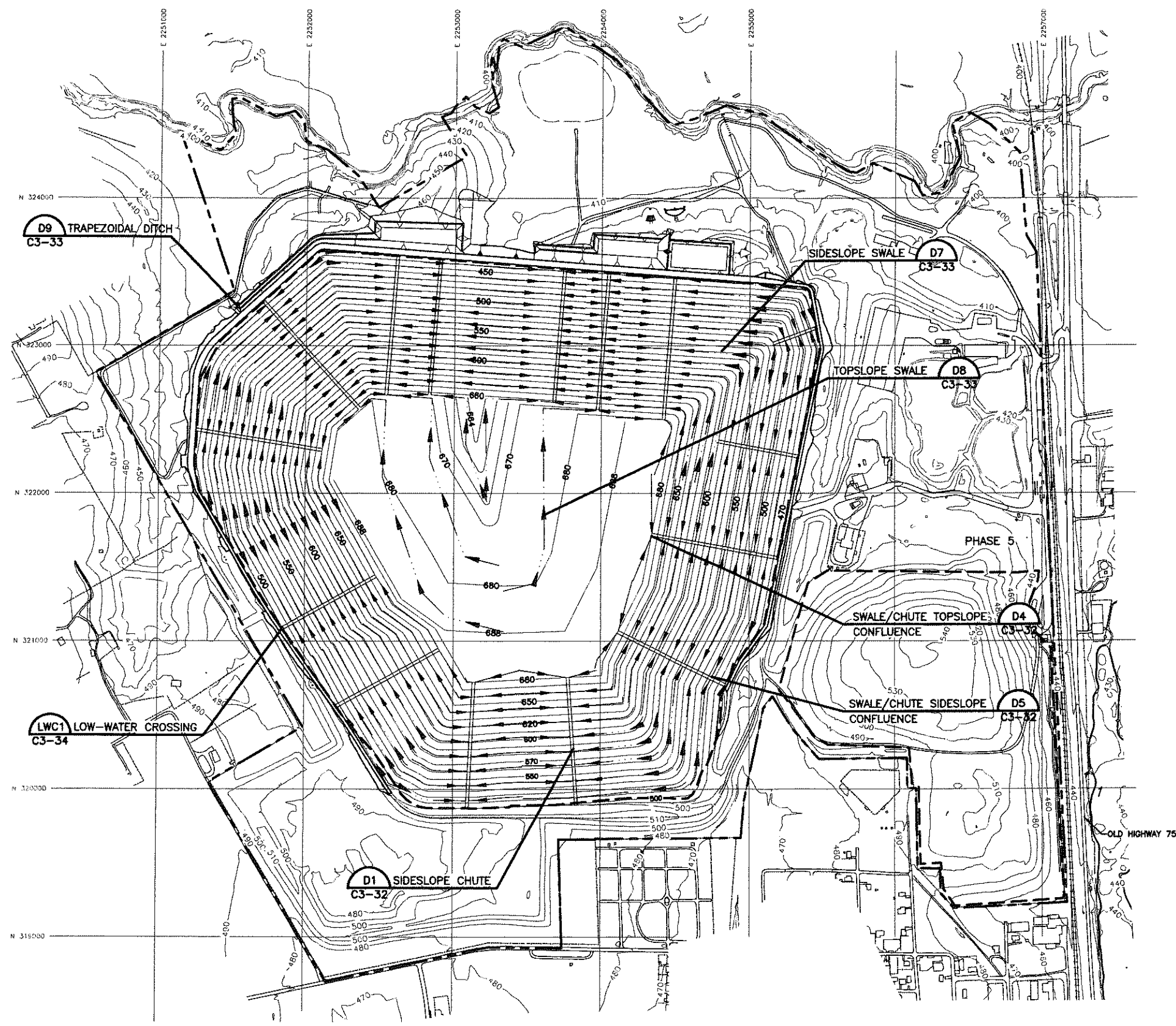


LEGEND

- PERMIT BOUNDARY
- LANDFILL FOOTPRINT
- 460 EXISTING 10' GROUND CONTOUR
- 500 PROPOSED 10' FINAL COVER CONTOUR
- ... STREAM

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. CONTOURS WITHIN EXISTING WASTE DISPOSAL FOOTPRINT DEPICT PROPOSED FINAL CONTOURS.
3. SEE DRAWING C1-A-1 FOR PERMIT BOUNDARY LOCATION.



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DRAINAGE STRUCTURE PLAN	
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT	
	BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144

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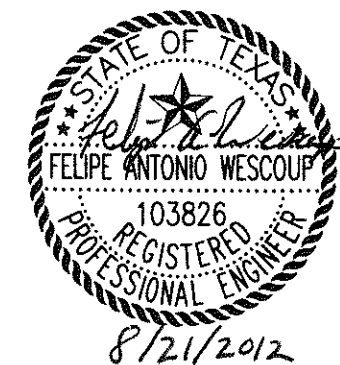
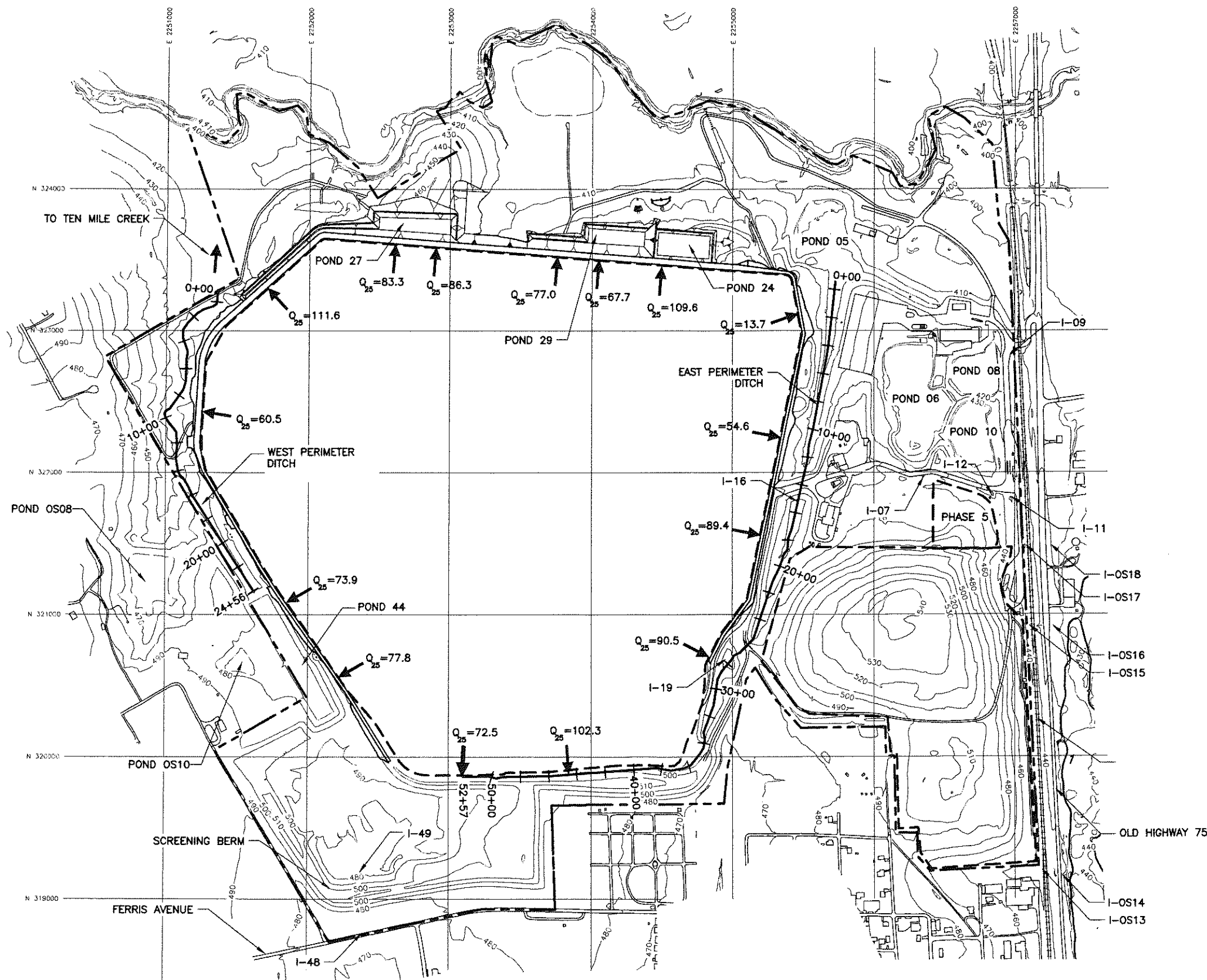
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SCALE IN FEET

- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 460 EXISTING 10' GROUND CONTOUR
 - 500 PROPOSED 10' FINAL COVER CONTOUR
 - ... STREAM

- NOTES:**
1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL PHOTOGRAPHY. FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL ZONE, US FEET.
 2. THE EAST AND WEST PERIMETER DITCHES FLOW TO STATION 0+00.



PERIMETER DRAINAGE PLAN

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SKYLINE LANDFILL
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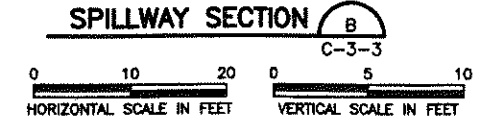
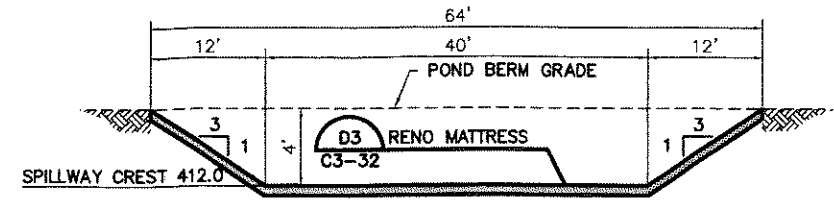
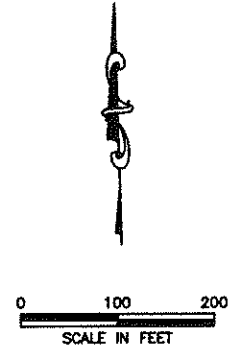
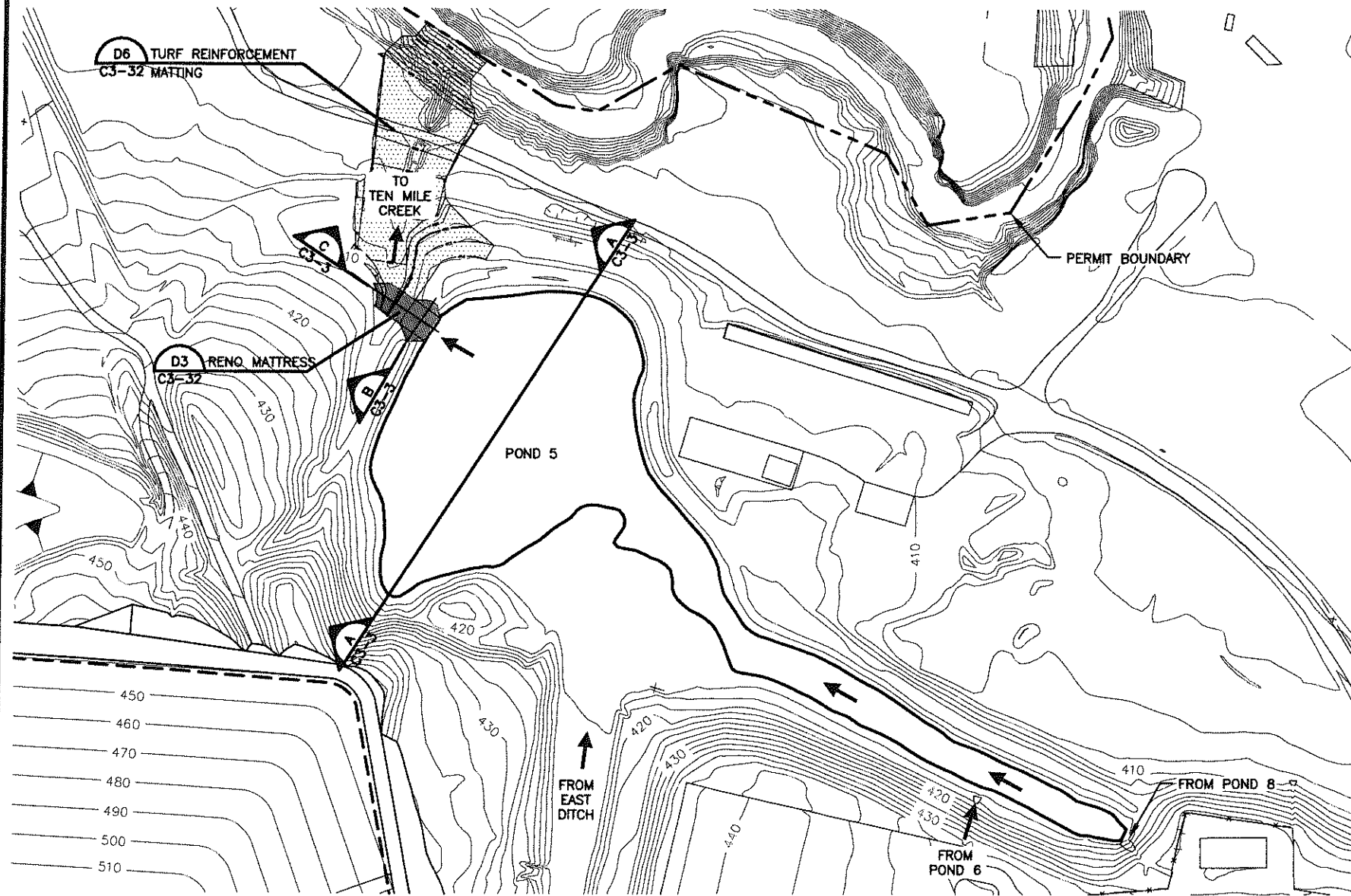
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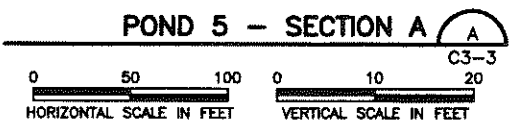
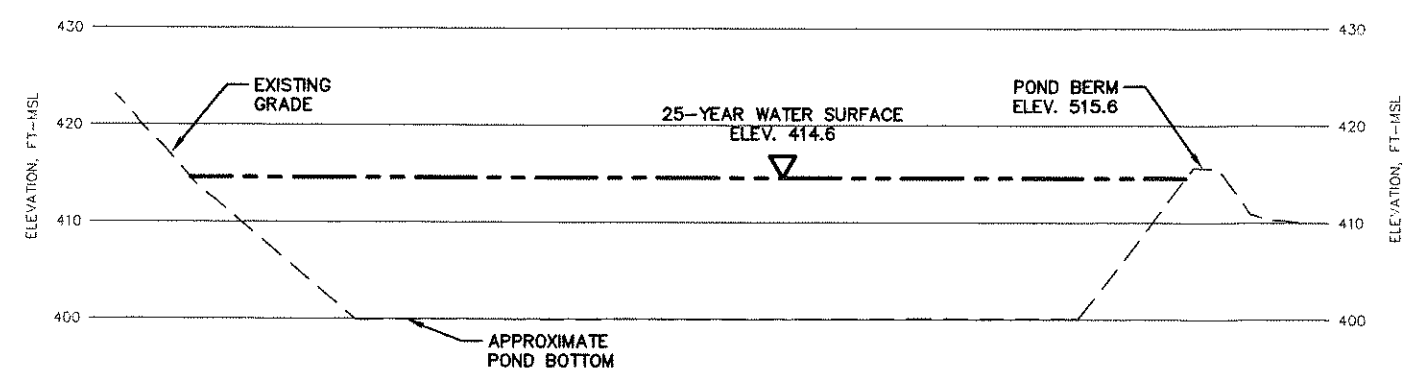
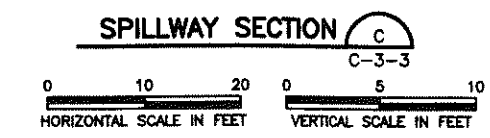
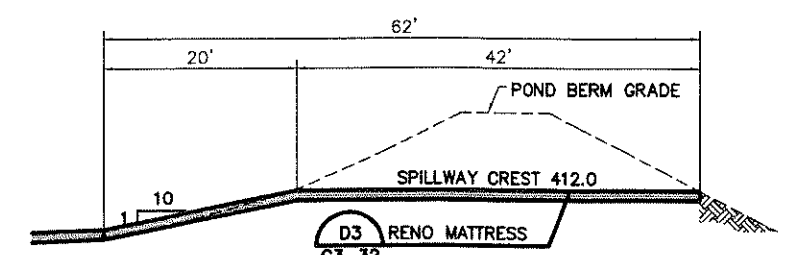


LEGEND

- PERMIT BOUNDARY
- ... LANDFILL FOOTPRINT
- 420 — EXISTING 2' GROUND CONTOUR
- - - 500 - - - PROPOSED 10' FINAL COVER CONTOUR

NOTE:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



POND 5 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
400	0
402	4
404	13
406	30
408	56
410	93
412	101.75
414	110.51
416	121.05



**POND 5
(EXISTING POND)**
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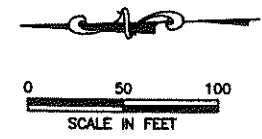
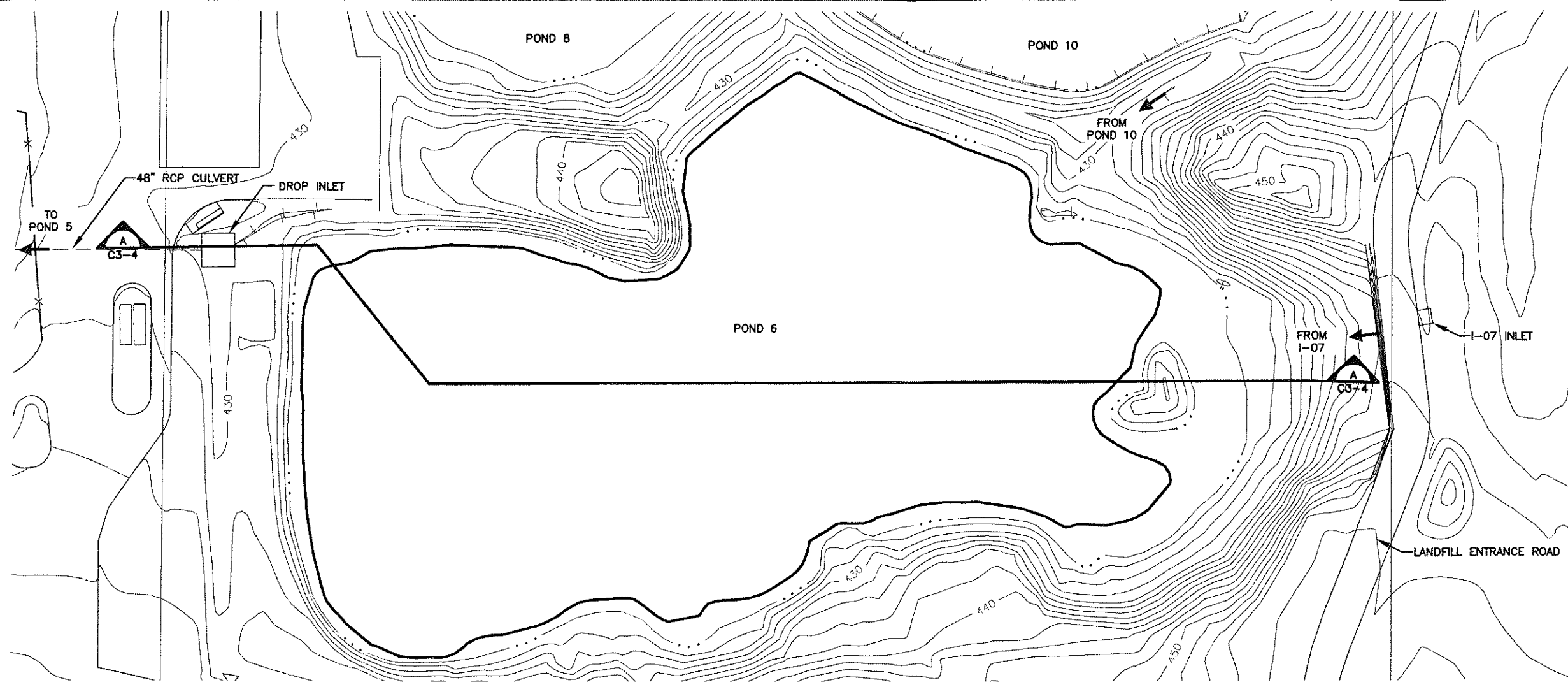
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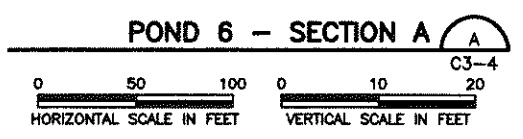
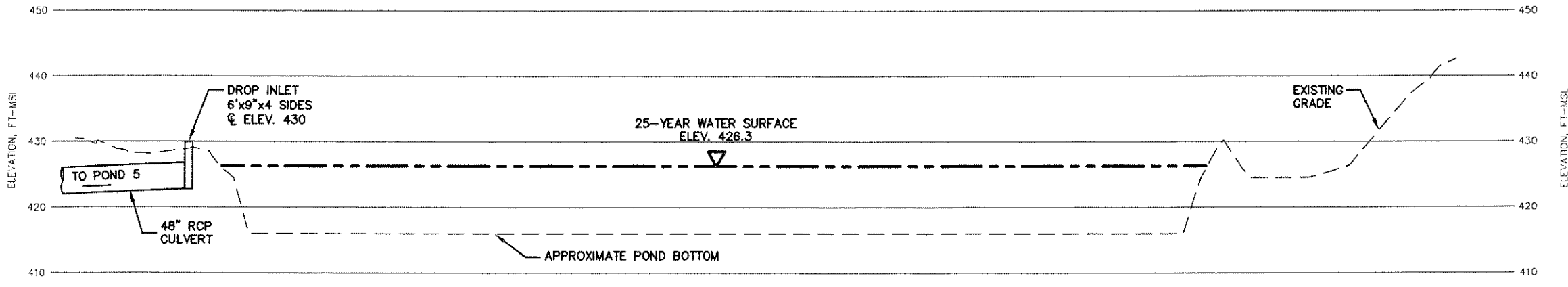
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CHK. KJW	DWG: C3_3.dwg	

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LEGEND
 440 EXISTING 2' GROUND CONTOUR

NOTE:
 1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



POND 6 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
416	0
418	7.79
420	16.35
422	26.66
424	36.06
426	44.07
428	56.46
430	69.25
432	82.05

**POND 6
(EXISTING POND)**

**WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT**

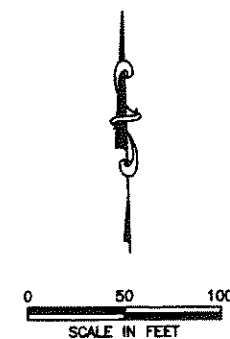
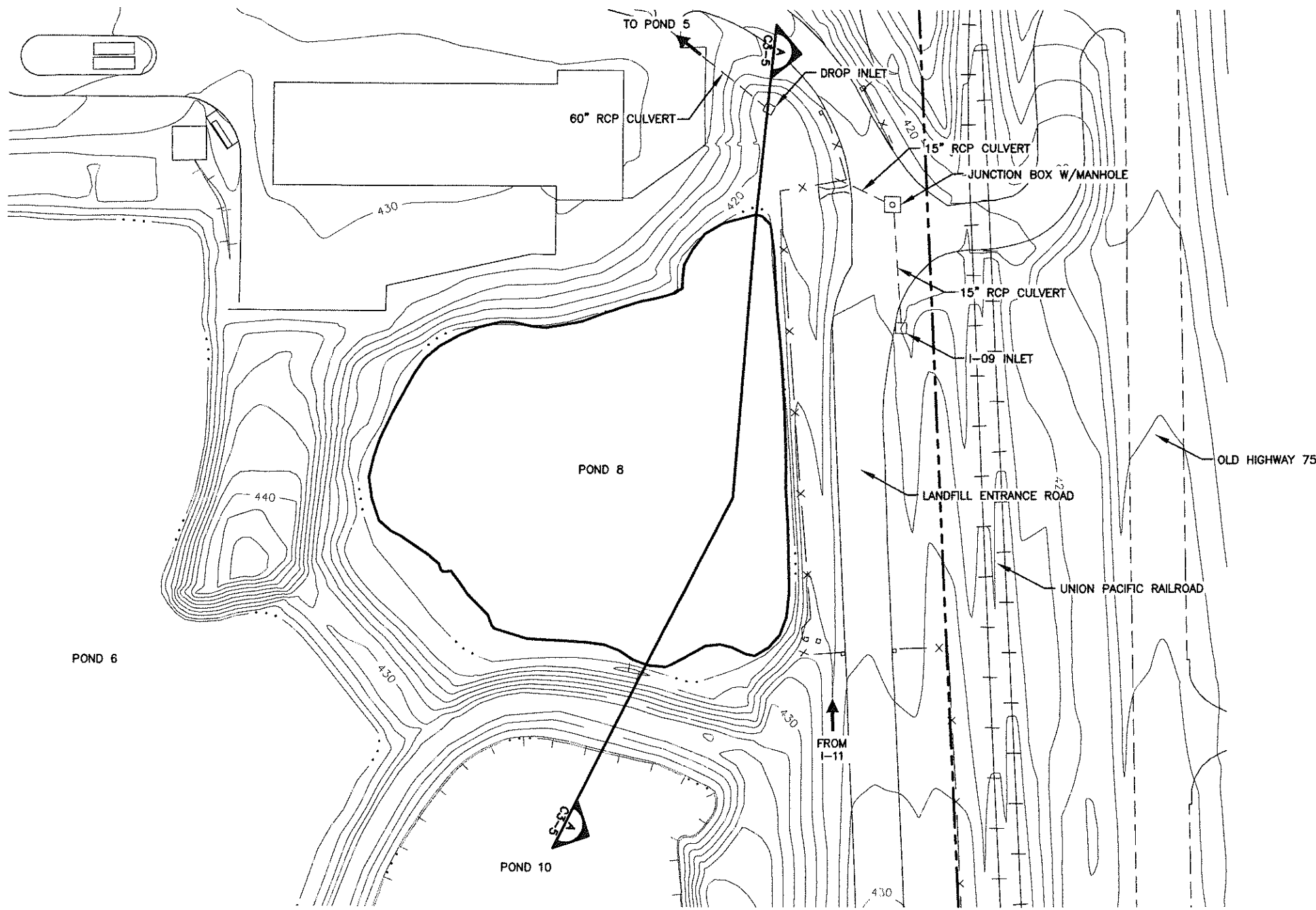


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LEGEND

--- PERMIT BOUNDARY

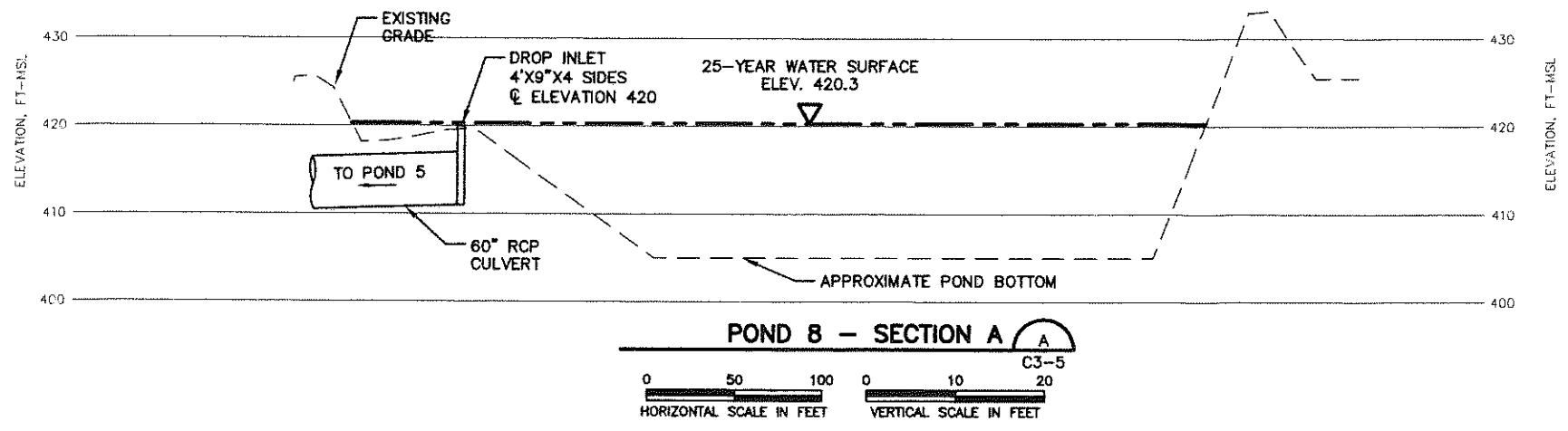
--- 420 --- EXISTING 2' GROUND CONTOUR

NOTE:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.

POND 8 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
405	0
406	1
408	2
410	3
412	4
414	7
416	10
418	12
420	15.29
422	20.45
424	25.90



POND 8 (EXISTING POND)

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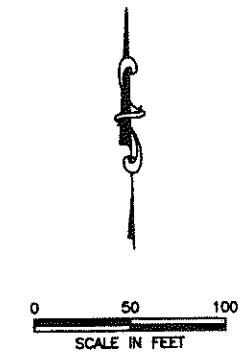
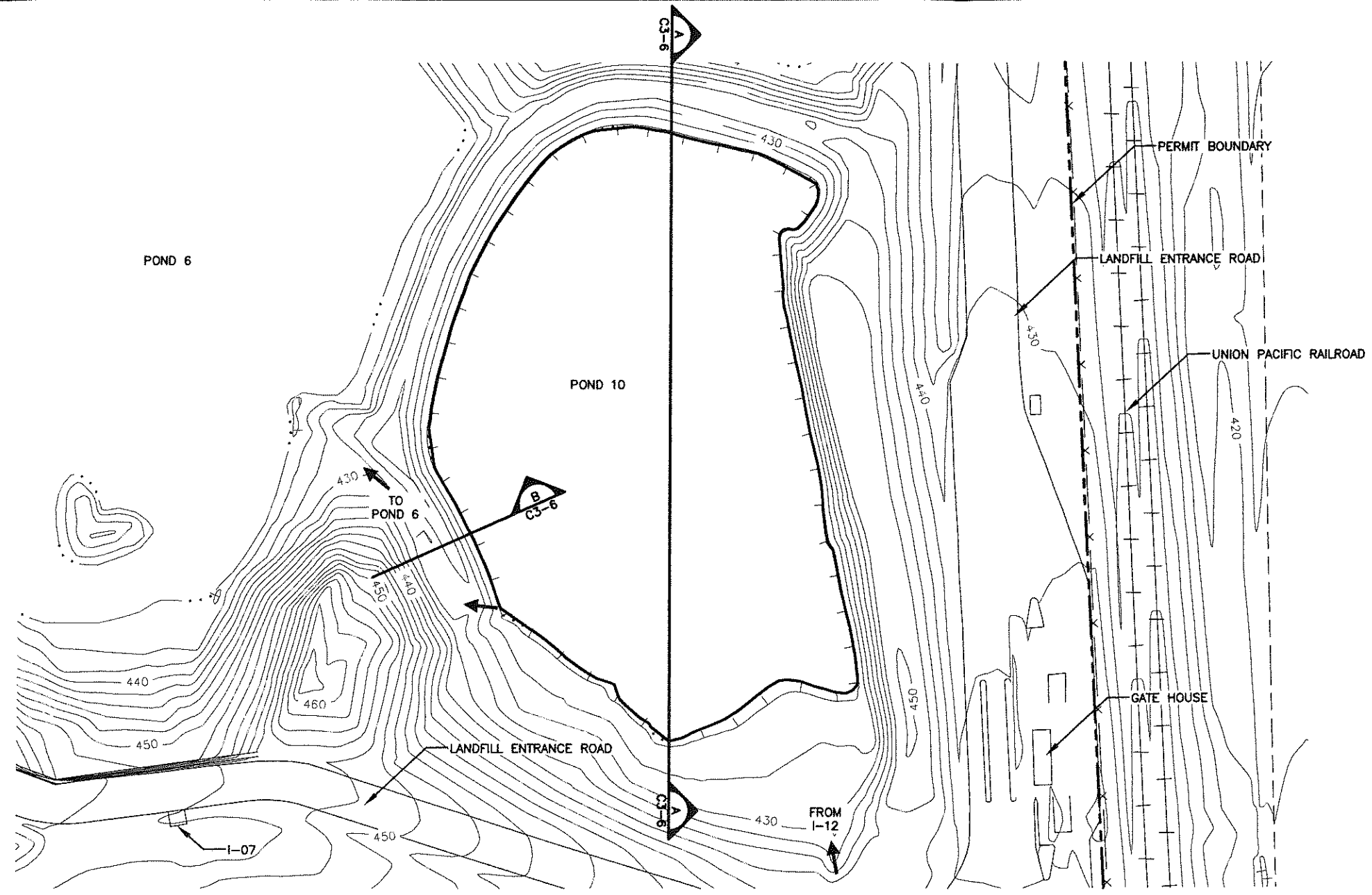
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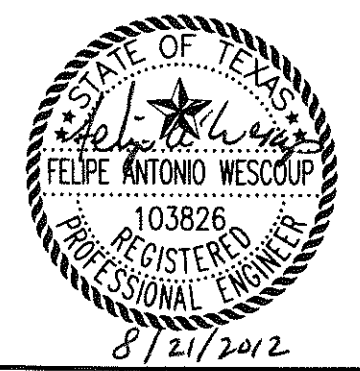
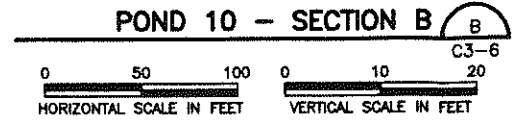
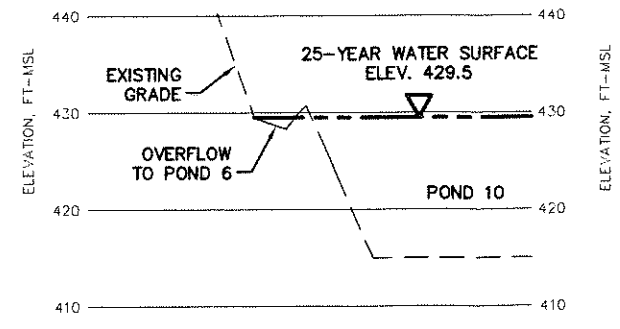
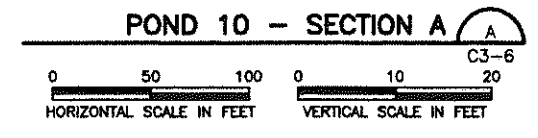
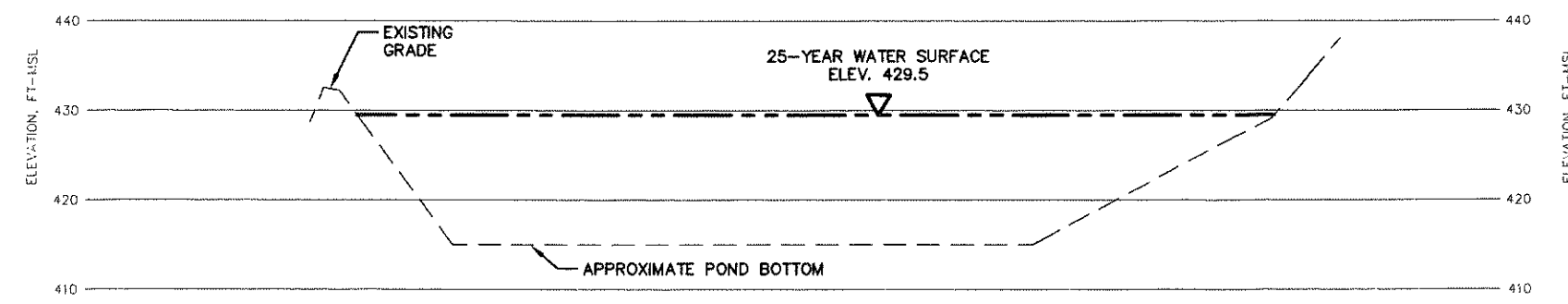
--- PERMIT BOUNDARY

— 460 — EXISTING 2' GROUND CONTOUR

NOTE:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
415	0
416	1.06
418	3.44
420	6.17
422	9.29
424	12.83
426	16.81
428	21.99
430	27.81
432	33.93



POND 10 (EXISTING POND)

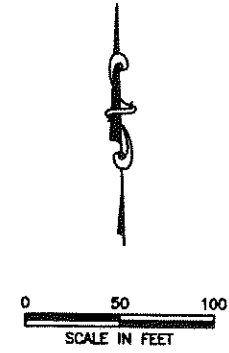
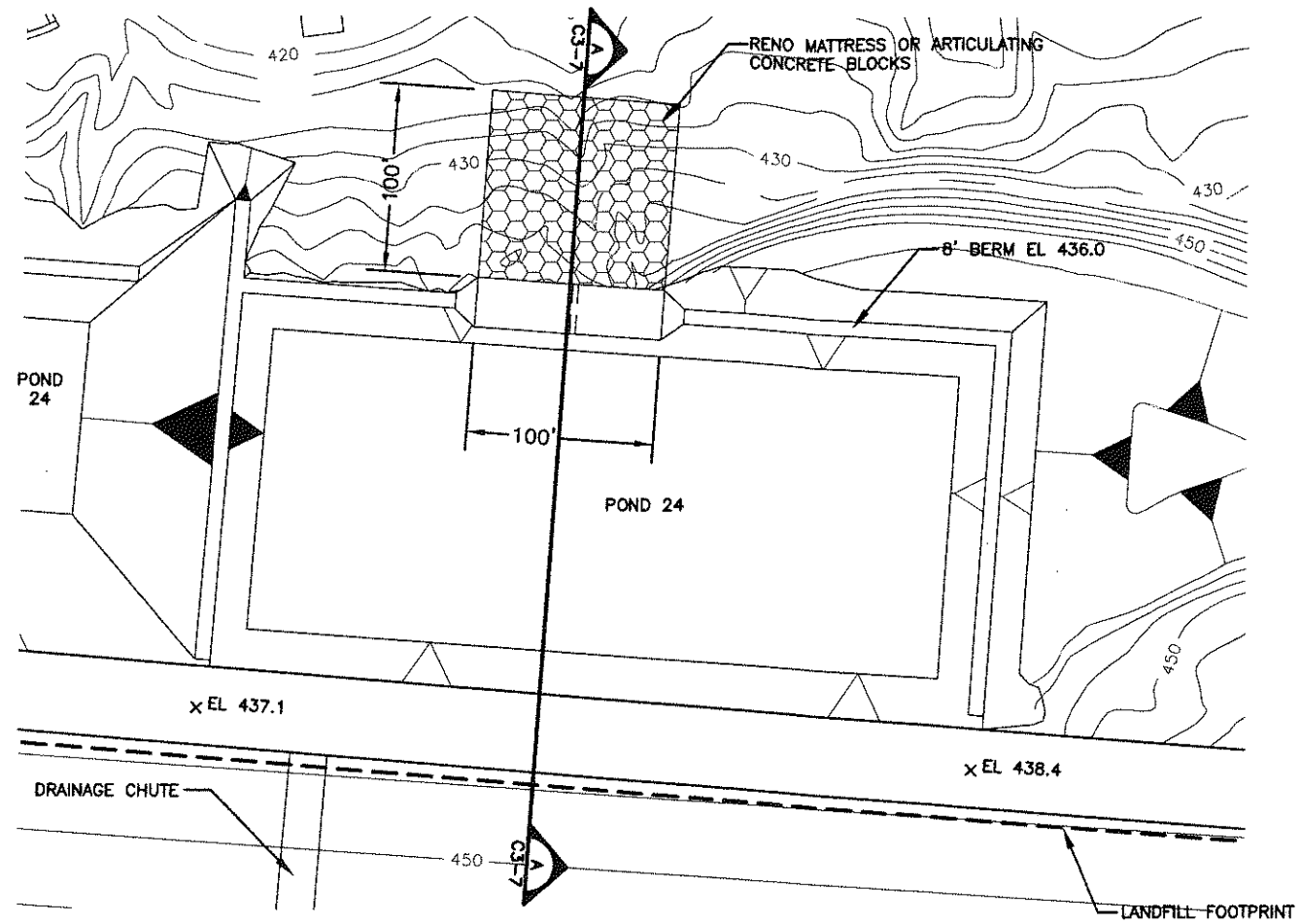
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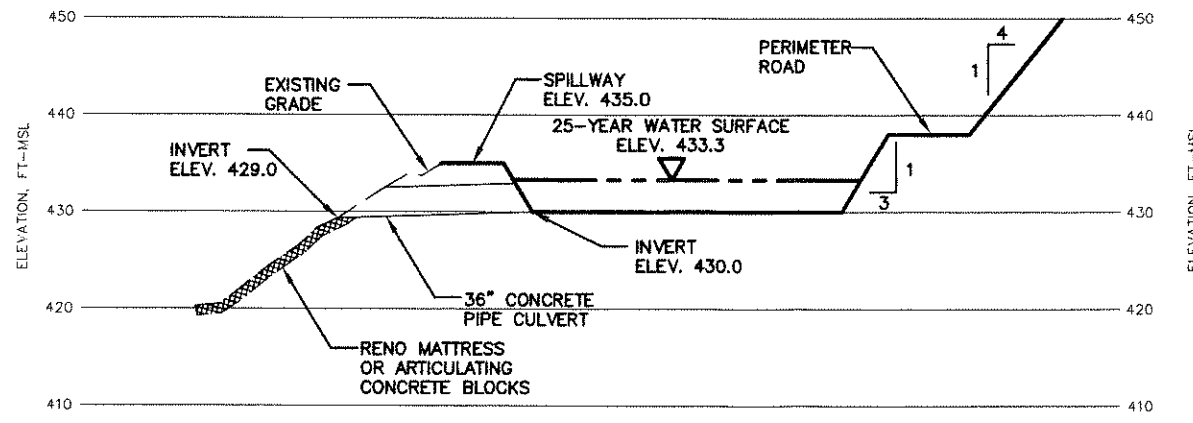
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- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 420 --- EXISTING 2' GROUND CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.

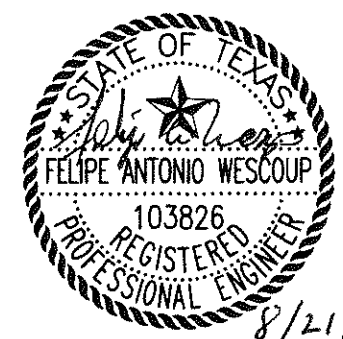


POND 24 - SECTION A

0 50 100 HORIZONTAL SCALE IN FEET

0 10 20 VERTICAL SCALE IN FEET

POND 24 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
430	0
432	2.88
434	6.06
436	9.56



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PROPOSED POND 24

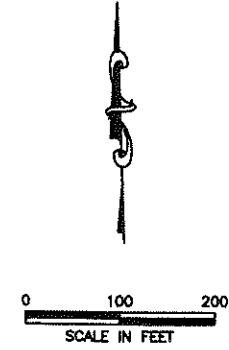
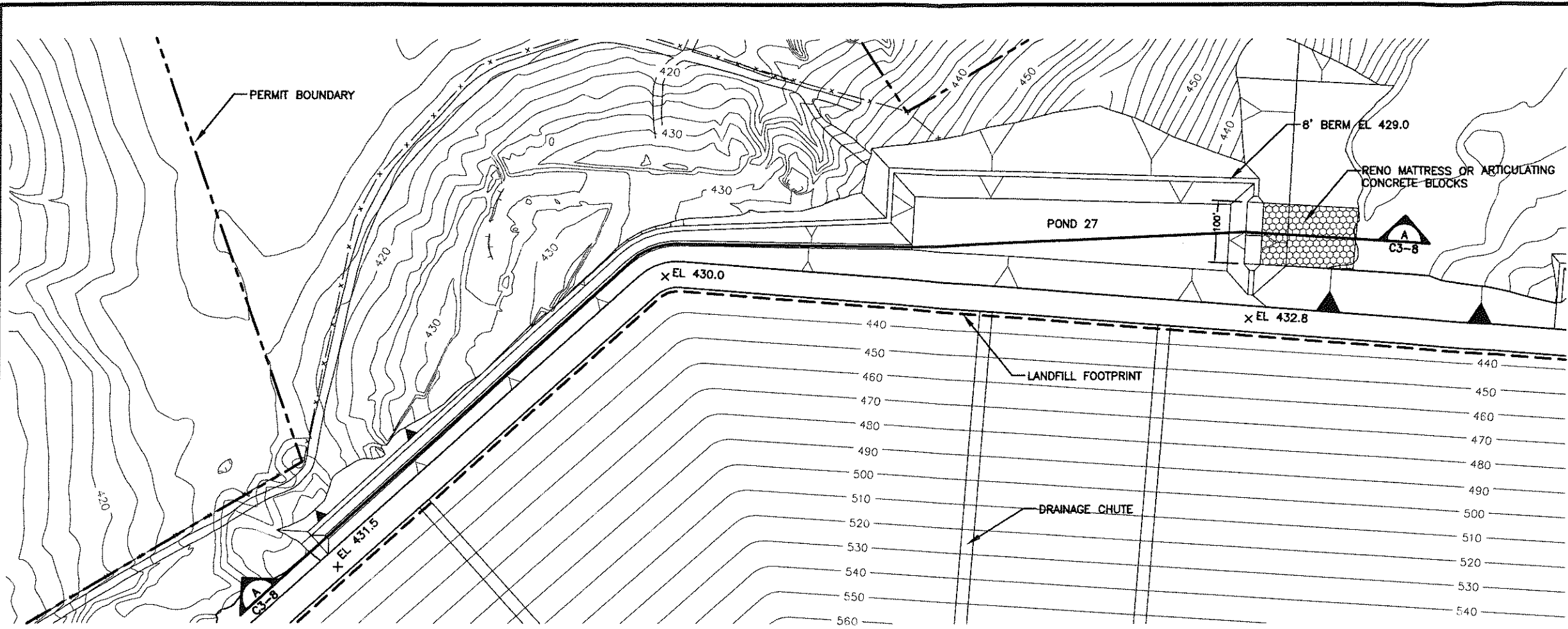
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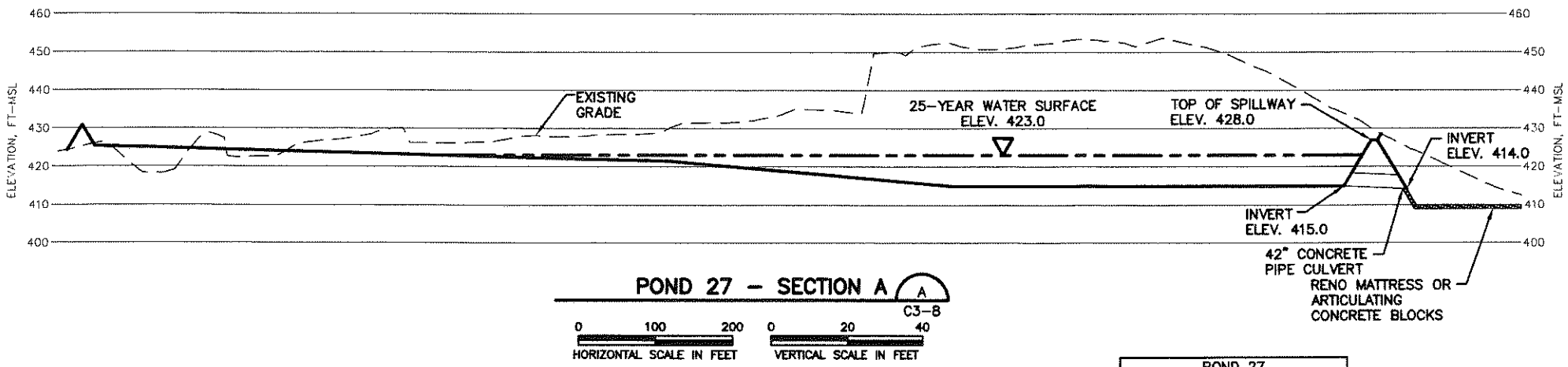
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- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 420 EXISTING 2' GROUND CONTOUR
 - 500 PROPOSED 10' FINAL COVER CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.

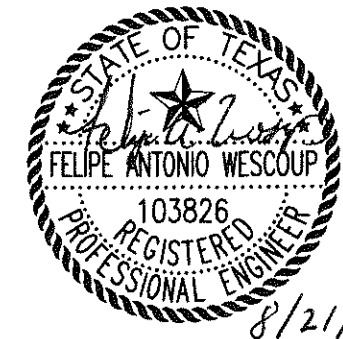


POND 27 - SECTION A

0 100 200 HORIZONTAL SCALE IN FEET

0 20 40 VERTICAL SCALE IN FEET

POND 27 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
415	0
417	2.49
419	5.42
421	8.87
423	12.94
425	17.88
427	23.84
429	30.80



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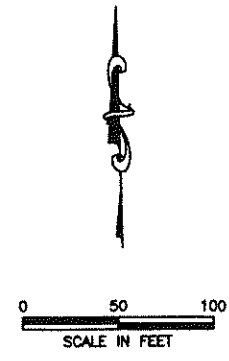
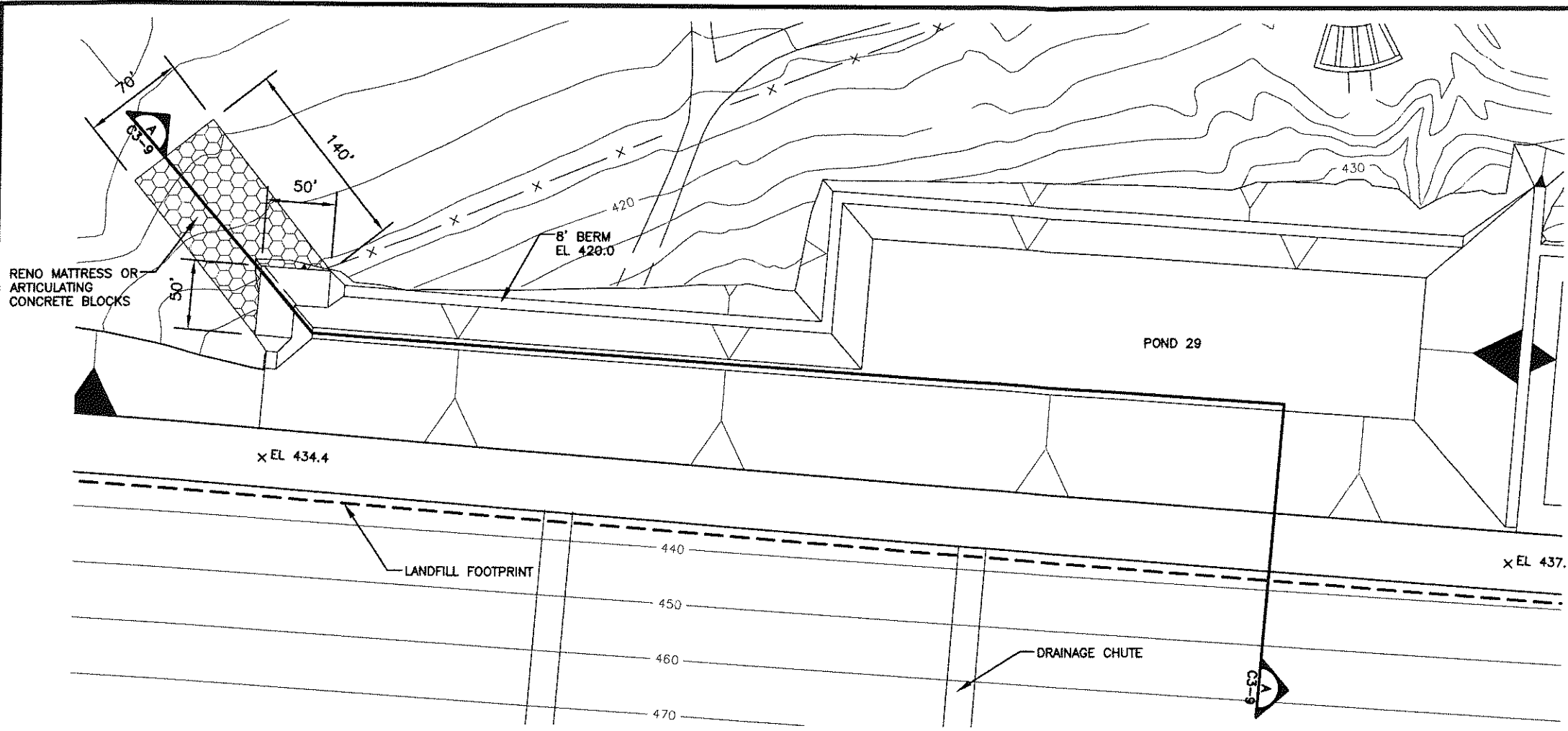
PROPOSED POND 27

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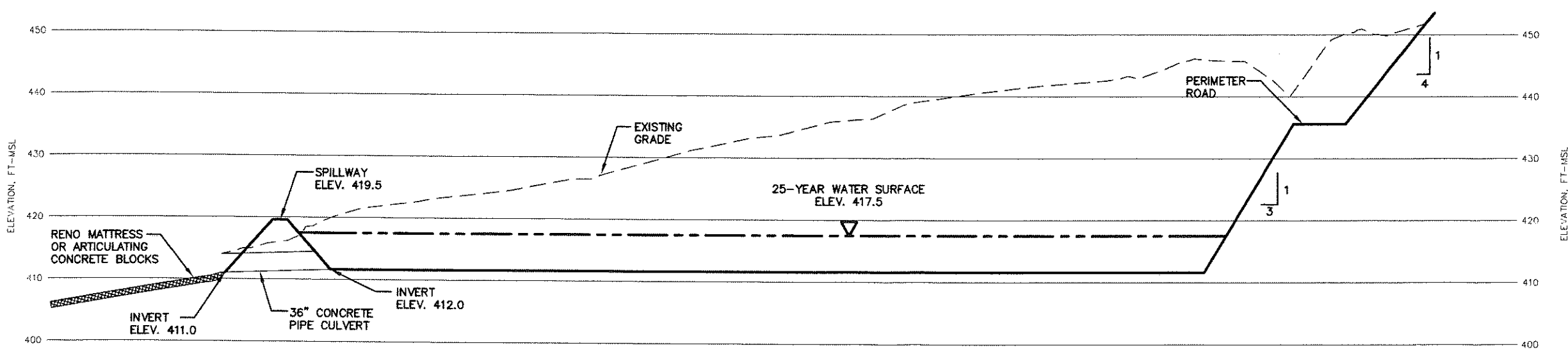
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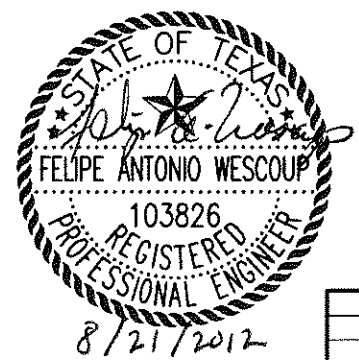
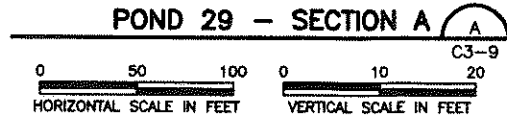
- LEGEND**
- LANDFILL FOOTPRINT
 - 420 --- EXISTING 2' GROUND CONTOUR
 - 500 --- PROPOSED 10' FINAL COVER CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



POND 29 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
410	0
412	0
414	2.28
416	5.07
418	8.38
420	12.23




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PROPOSED POND 29

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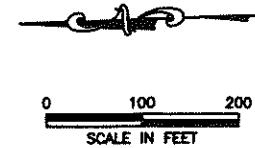
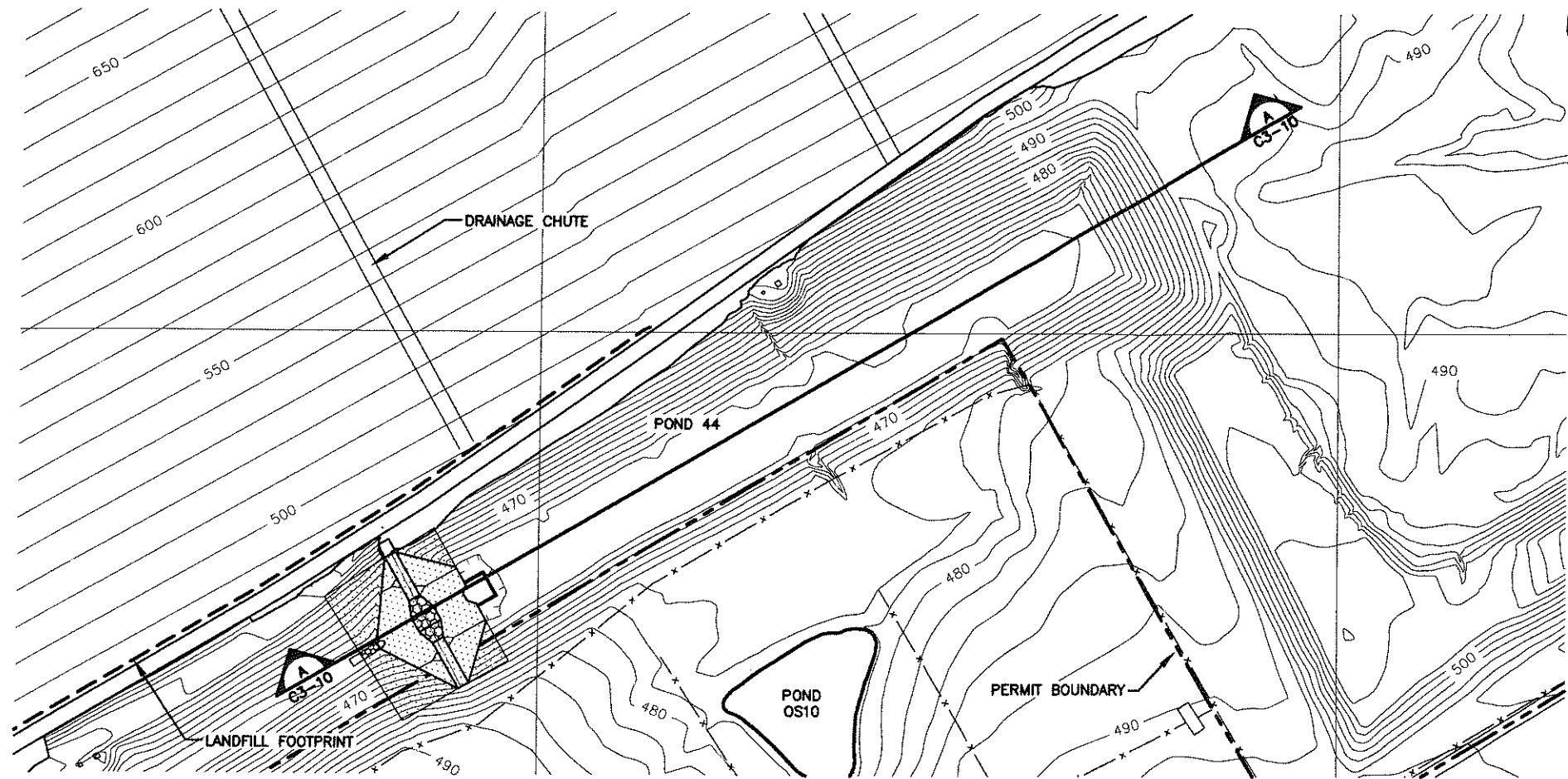
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CONSULTING ENGINEERS
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TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. FAW DATE : 08/12
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CHK. KJW DWG : C3_9.dwg

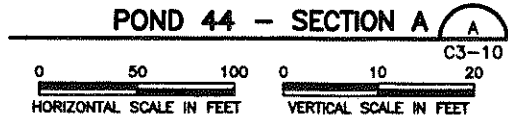
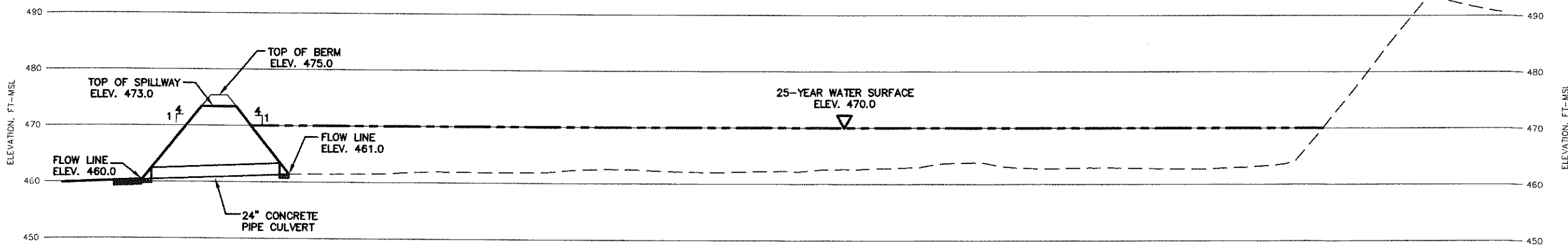
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- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 480 --- EXISTING 2' GROUND CONTOUR
 - 500 --- PROPOSED 10' FINAL COVER CONTOUR

NOTE:
 1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



POND44 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
460	0
462	.01
464	1.52
466	5.41
468	10.24
470	15.89
472	22.38
474	29.72
476	38.51



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POND 44 (EXISTING POND)

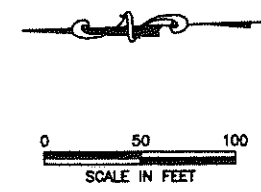
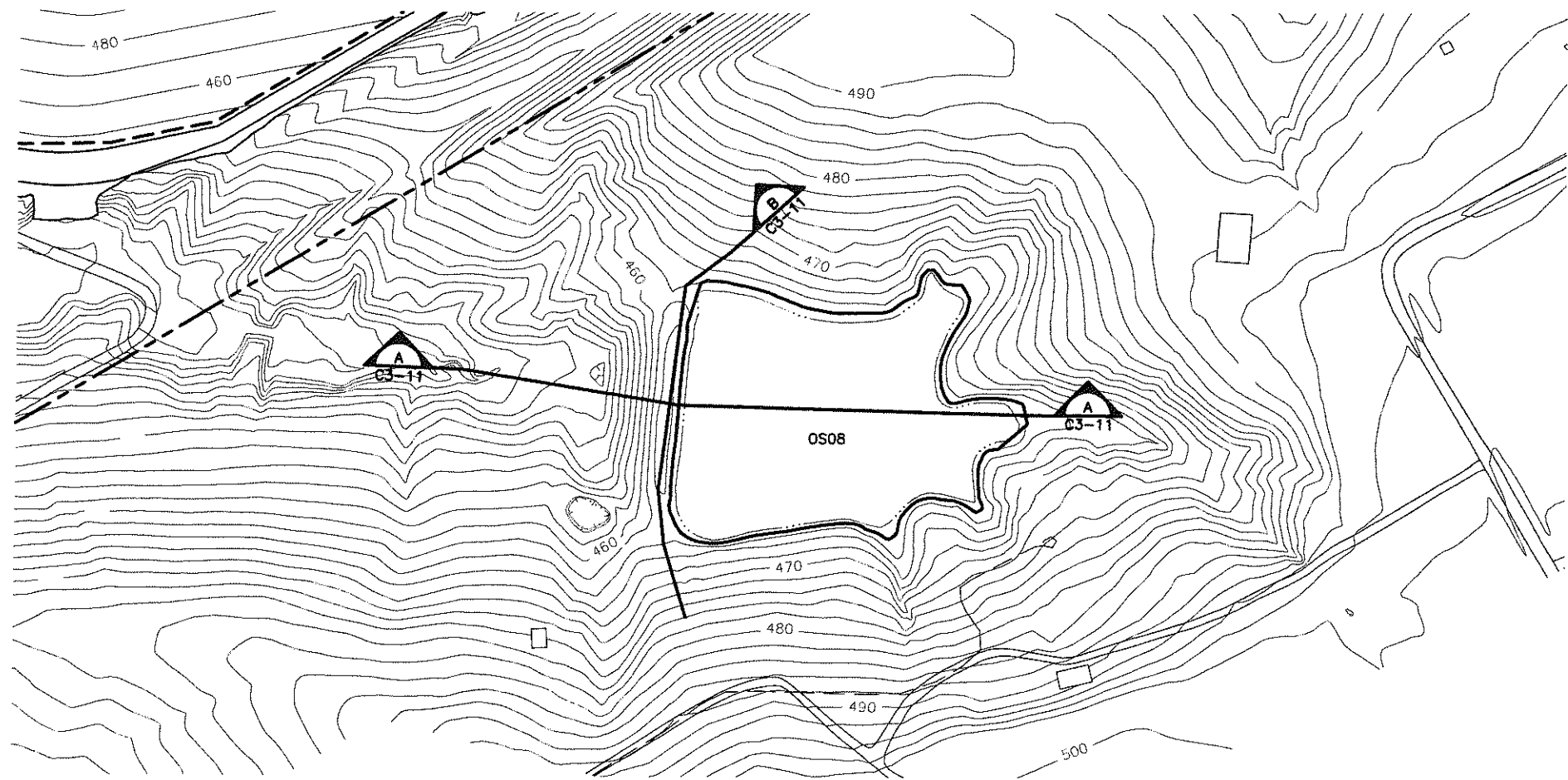
WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT

BIGGS & MATHEWS
 ENVIRONMENTAL CONSULTING ENGINEERS
 MANSFIELD DALLAS • WICHITA FALLS
 817-563-1144

TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

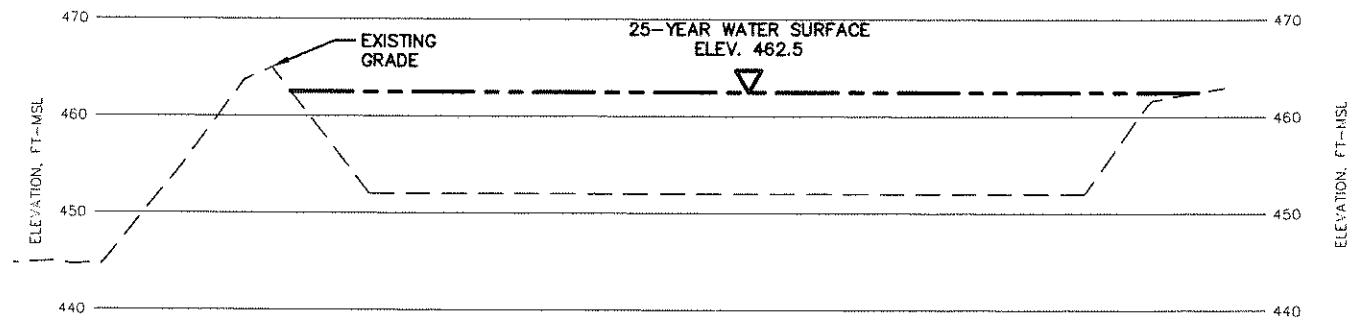
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CHK. KJW	DWG : C3_10.dwg	

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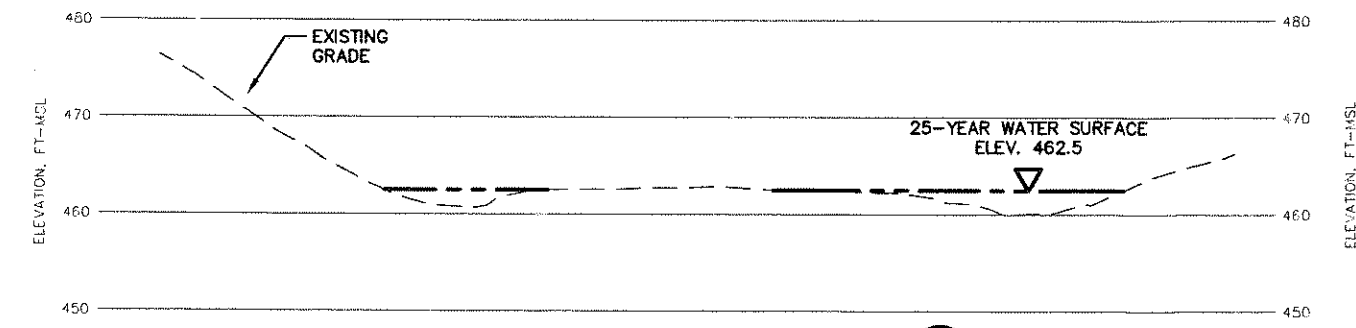


- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 480 EXISTING 2' GROUND CONTOUR
 - 460 PROPOSED 10' FINAL COVER CONTOUR

NOTE:
 1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.

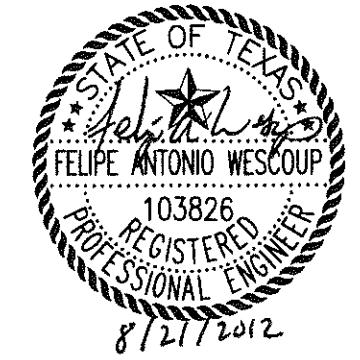


POND OS08 - SECTION A
 HORIZONTAL SCALE IN FEET: 0, 50, 100
 VERTICAL SCALE IN FEET: 0, 10, 20



POND OS08 - SECTION B
 HORIZONTAL SCALE IN FEET: 0, 50, 100
 VERTICAL SCALE IN FEET: 0, 10, 20

OS08 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
452	0.000
454	2.000
456	2.500
458	5.000
460	7.500
462	14.000
464	18.500
466	24.000



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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

POND OS08

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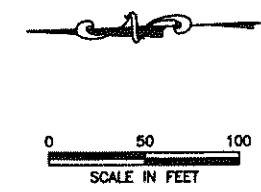
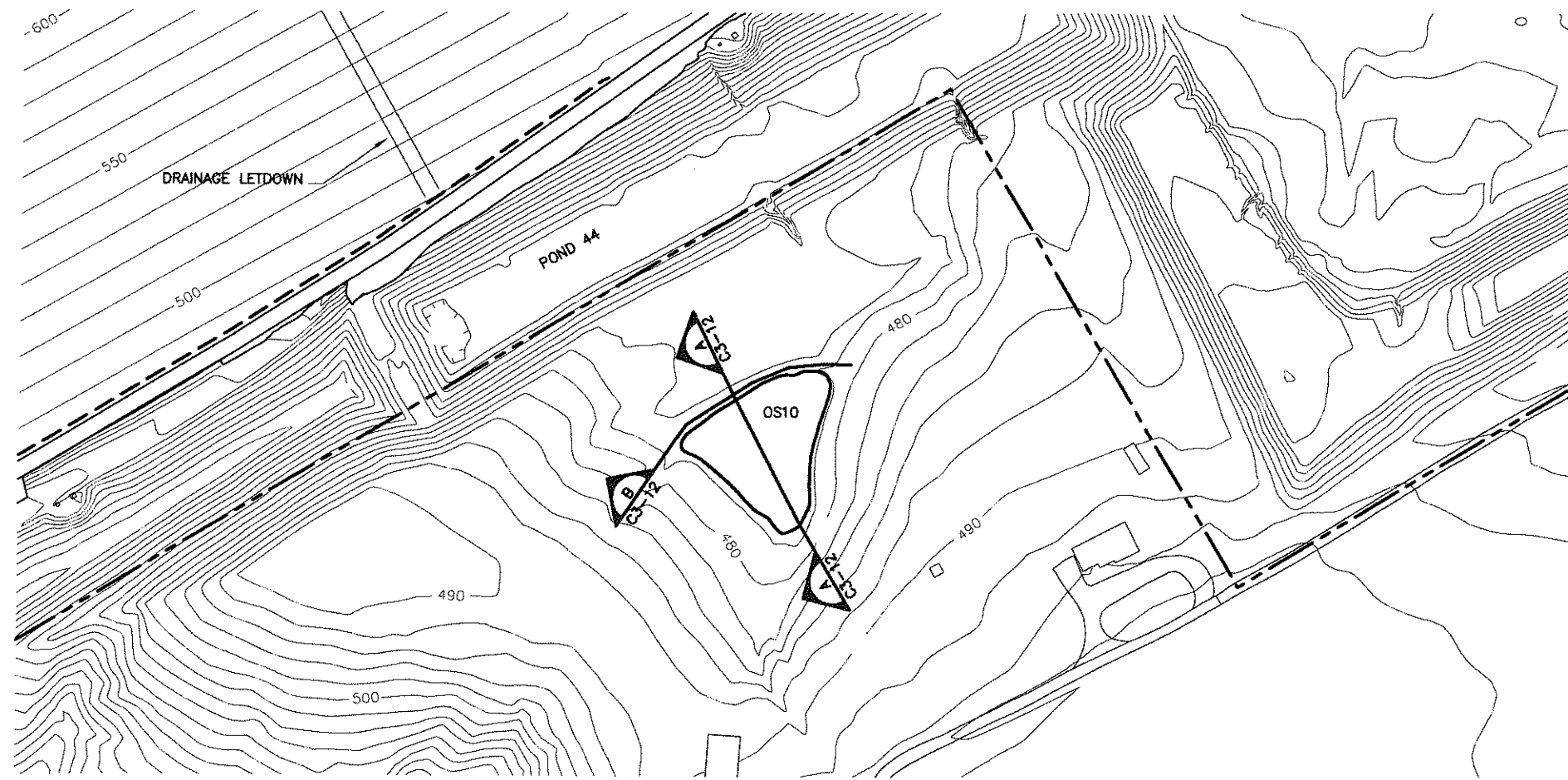
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TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. FAW DATE : 08/12
 DWN. BBB SCALE : GRAPHIC
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DRAWING
C3-11

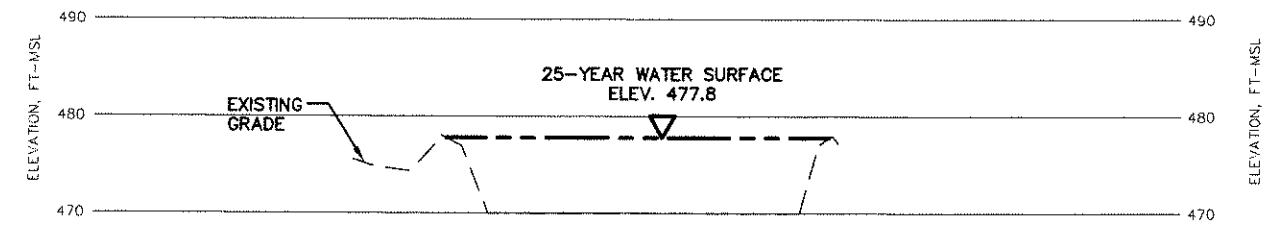
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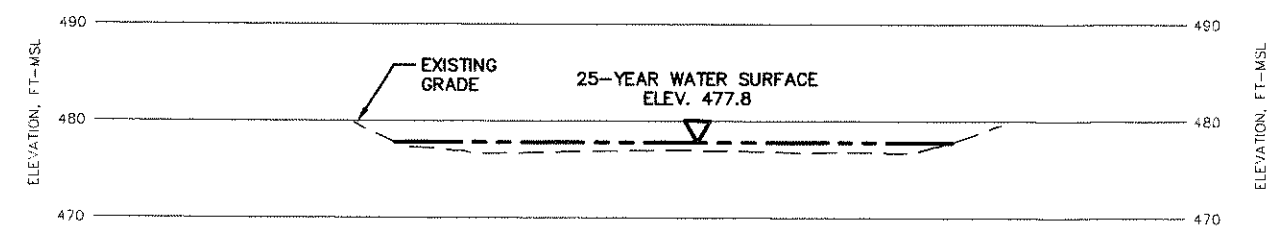
- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 480 EXISTING 2' GROUND CONTOUR
 - 500 PROPOSED 10' FINAL COVER CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



POND OS10 - SECTION A
 HORIZONTAL SCALE IN FEET: 0, 50, 100
 VERTICAL SCALE IN FEET: 0, 10, 20



POND OS10 - SECTION B
 HORIZONTAL SCALE IN FEET: 0, 50, 100
 VERTICAL SCALE IN FEET: 0, 10, 20

OS10 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
470	0.000
472	0.200
474	0.400
476	1.000
478	2.000
480	3.033



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REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

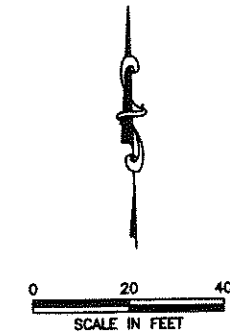
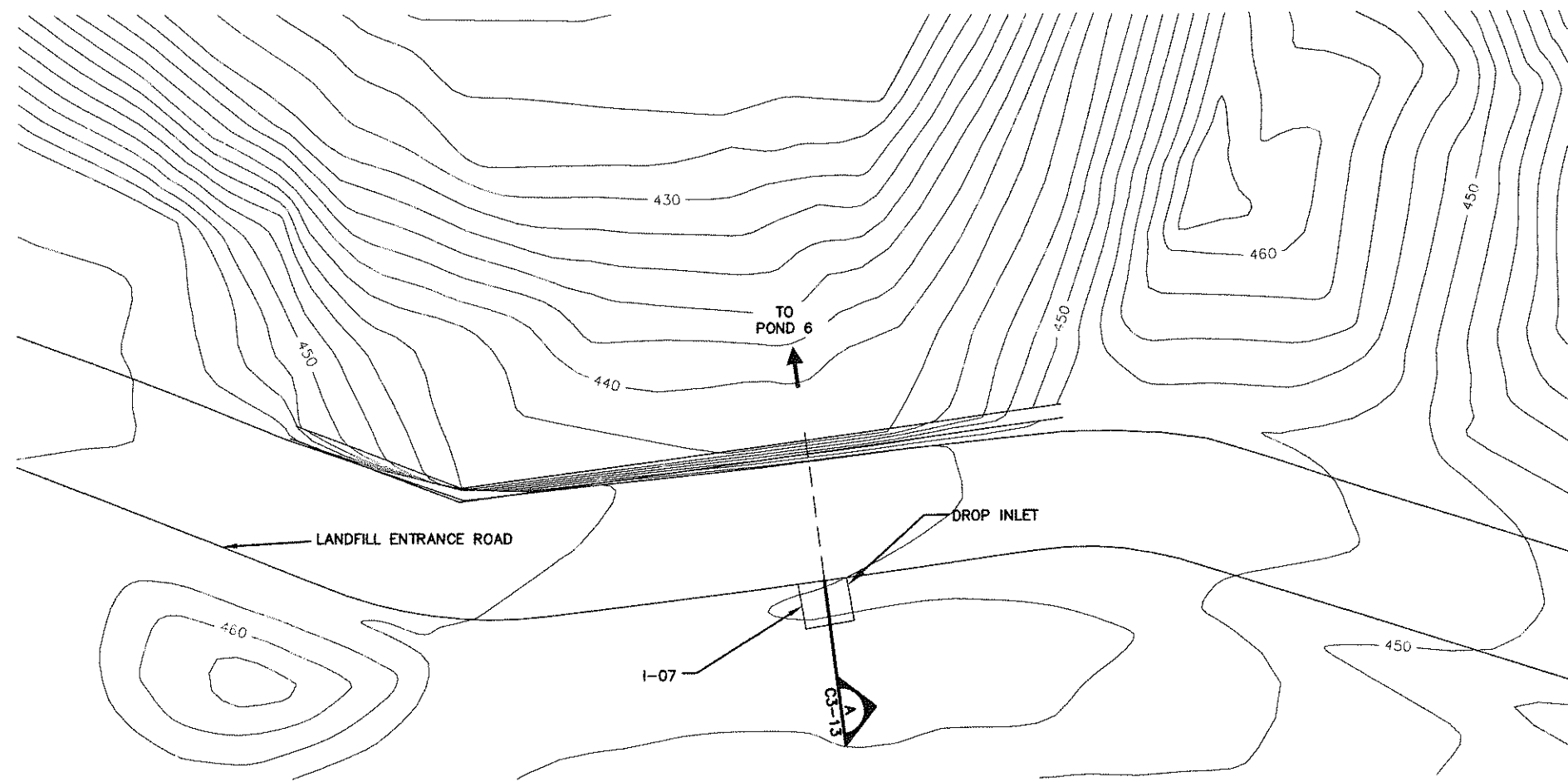
POND OS10

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DRAWING
C3-12

J:\101\01\120\ATT\C3_12.dwg Layout: Layout4 User: bboles

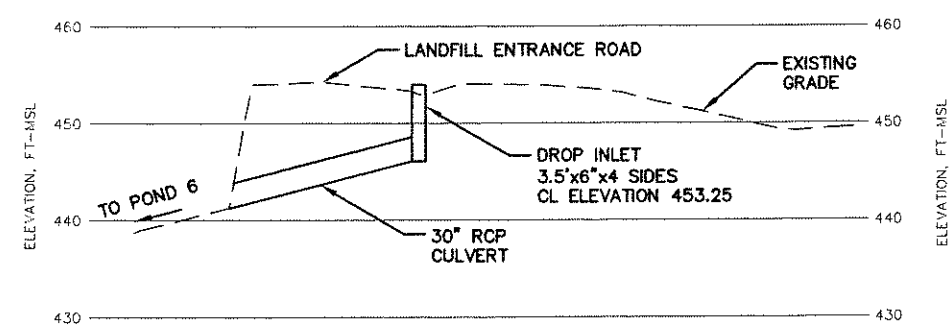


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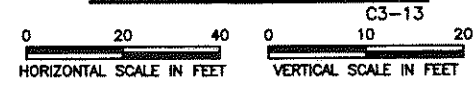
— 460 — EXISTING 2' GROUND CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



I-07- SECTION A



I-07 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
453	0
455	.006



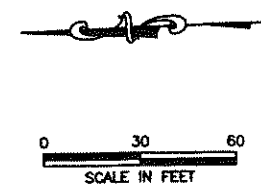
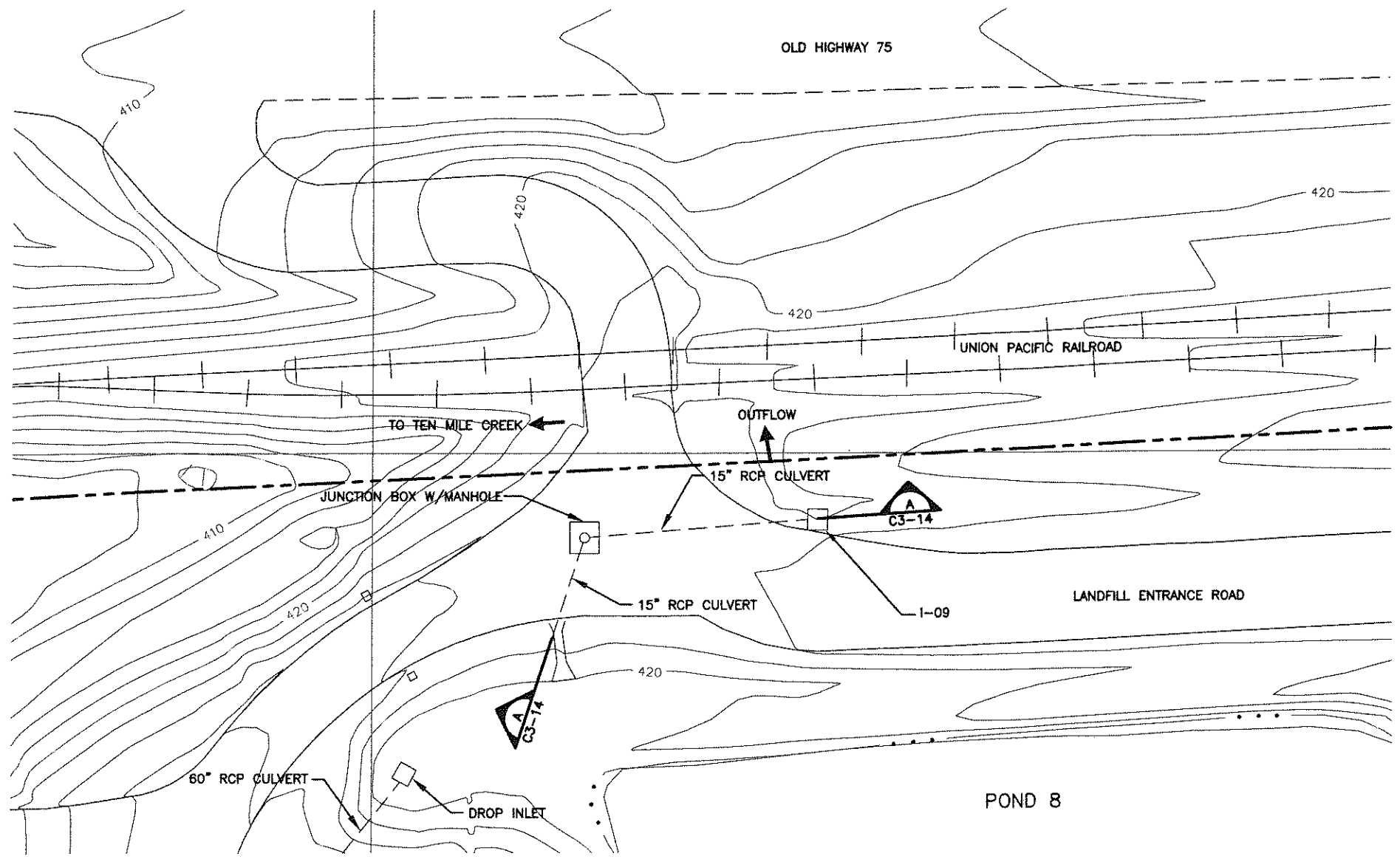
8/21/2012

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I-07	
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT	
	BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144

REVISIONS					TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

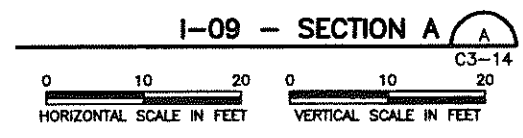
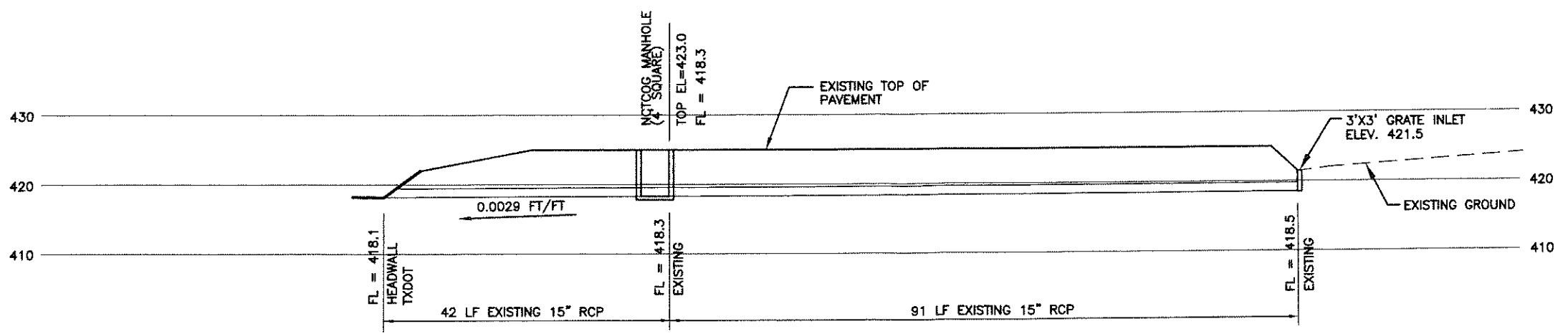
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CHK. KJW	DWG : C3_13.dwg	



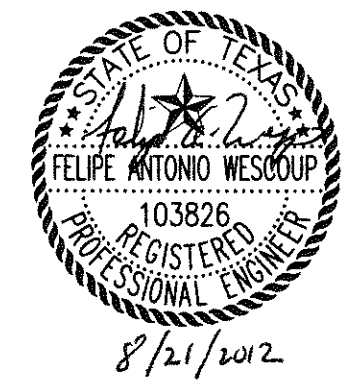
- LEGEND**
- PERMIT BOUNDARY
 - 420 --- EXISTING 2' GROUND CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



I-09 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
421	0
423	0.01



I-09

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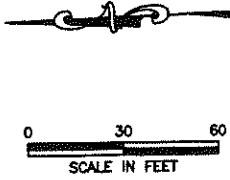
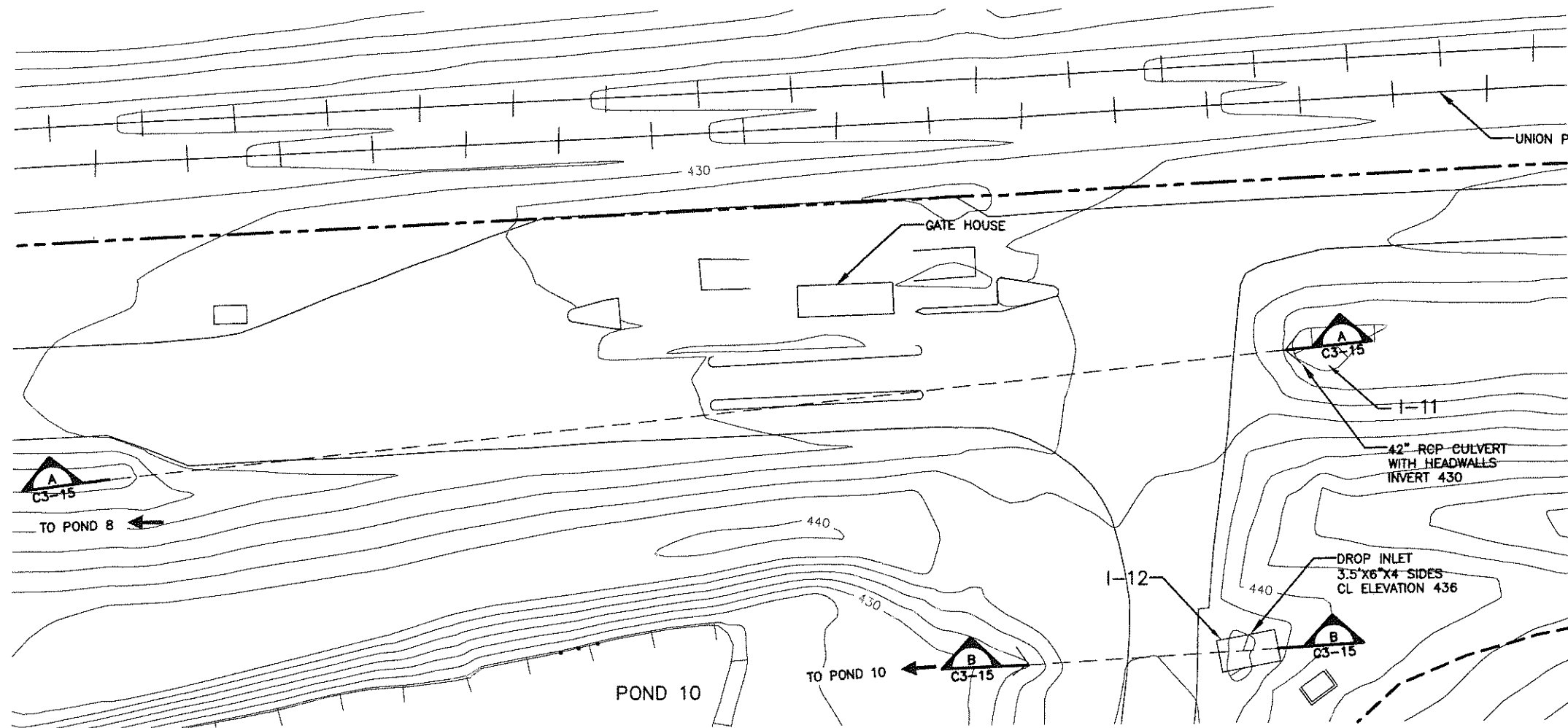
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TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
DSN. FAW	DATE : 08/12	DRAWING	
DWN. BBB	SCALE : GRAPHIC	C3-14	
CHK. KJW	DWG : C3_14.dwg		

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REVISIONS						
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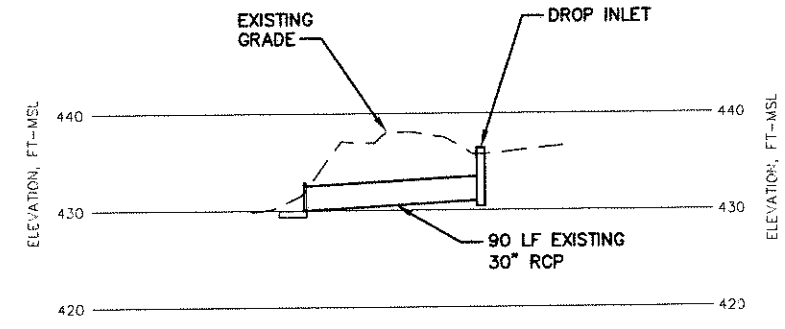
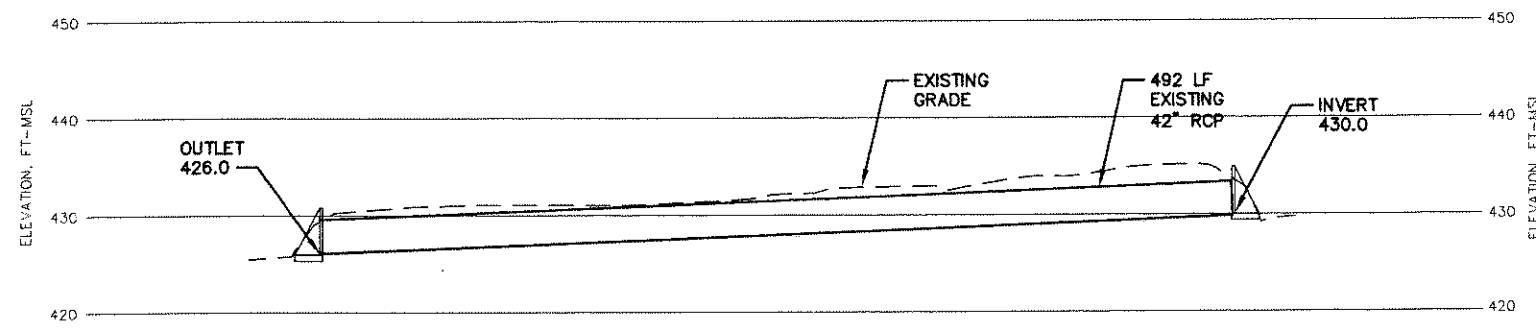
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- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 440 --- EXISTING 2' GROUND CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



I-11 - SECTION A

0 50 100 HORIZONTAL SCALE IN FEET

0 10 20 VERTICAL SCALE IN FEET

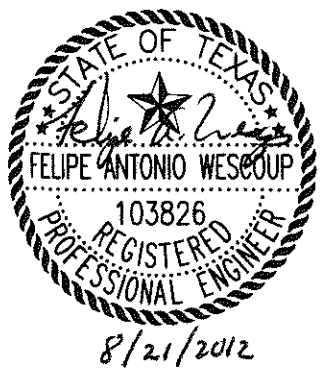
I-11 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
428	0
430	0.003
432	0.15
434	0.69
436	1.49
438	2.29

I-12 - SECTION B

0 50 100 HORIZONTAL SCALE IN FEET

0 10 20 VERTICAL SCALE IN FEET

I-12 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
434	0
436	0.001
438	0.037



I-11 AND I-12

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TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. FAW DATE : 08/12
 DWN. BBB SCALE : GRAPHIC
 CHK. KJW DWG : C3_15.dwg

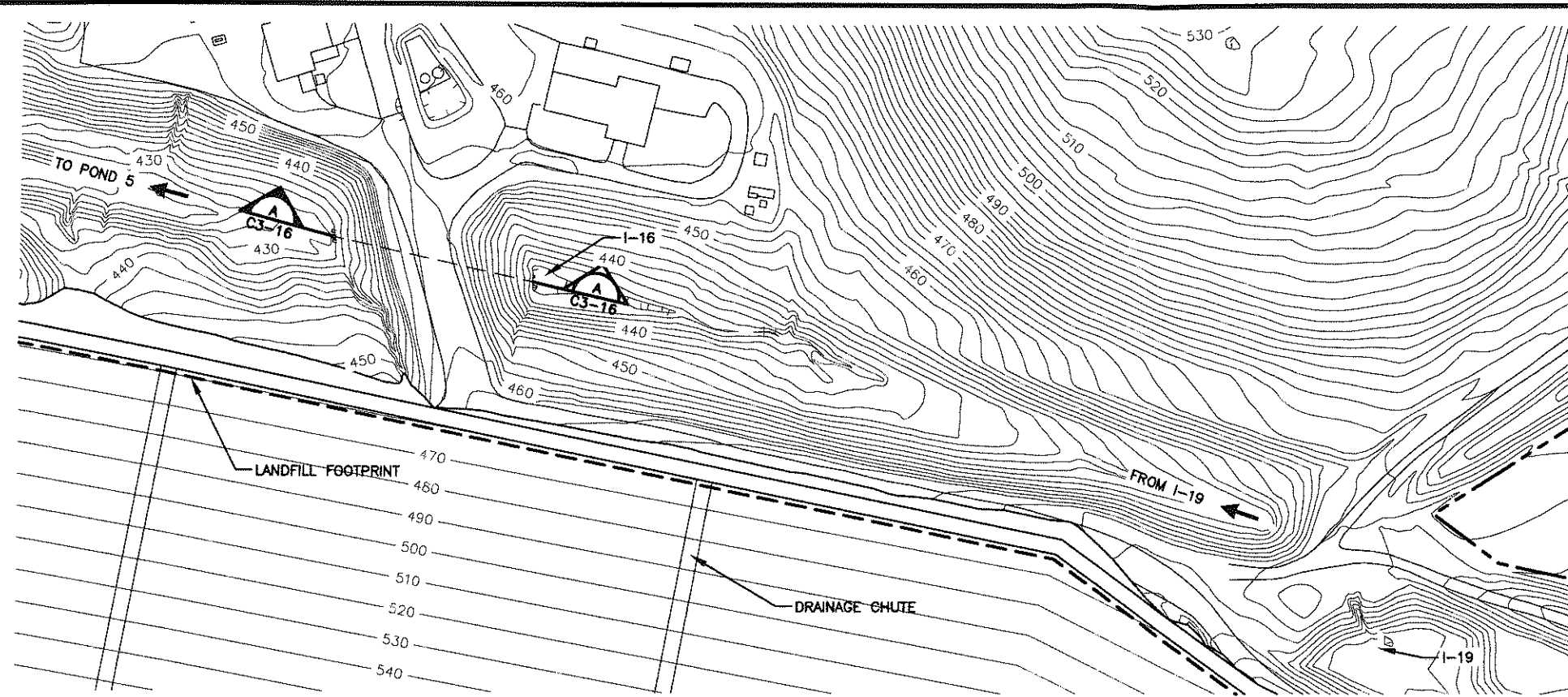
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REVISIONS					
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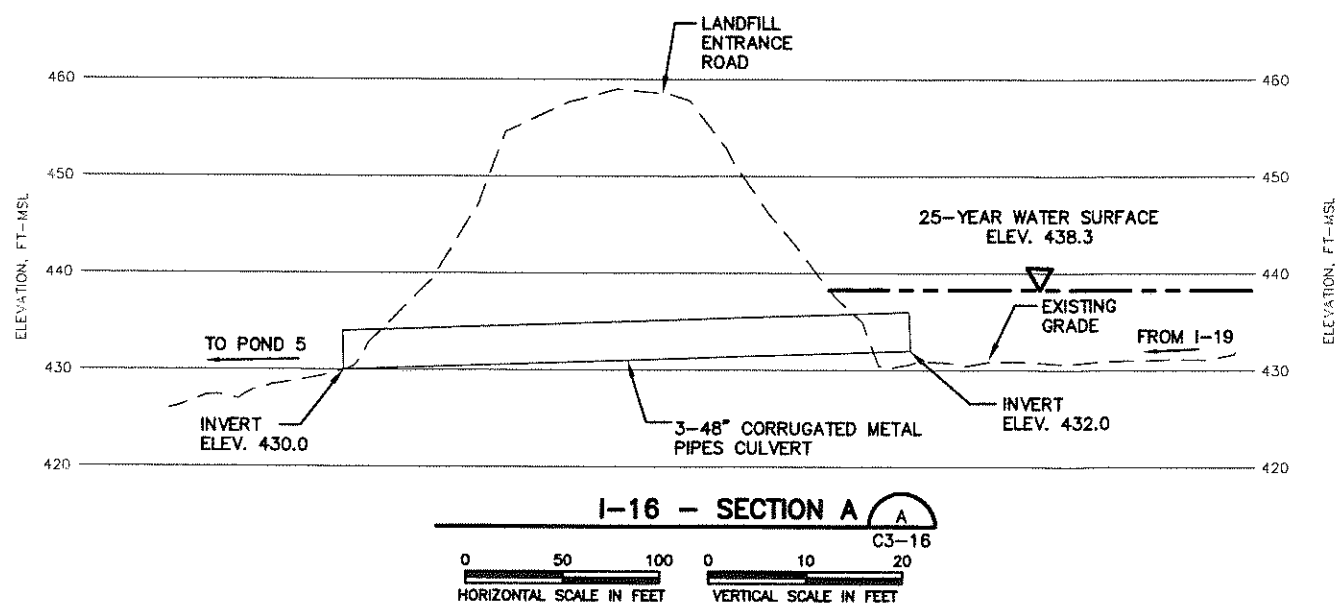


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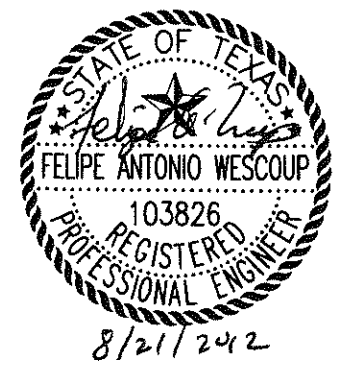
- LANDFILL FOOTPRINT
- 460 — EXISTING 2' GROUND CONTOUR
- 500 — PROPOSED 10' FINAL COVER CONTOUR

NOTE:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



I-16 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
432	0.050
434	0.292
436	0.784
438	1.584
440	2.756
442	4.416
444	6.707
446	9.761
448	13.615
450	18.264
452	23.727
454	30.138
456	37.624
458	45.751
460	53.877

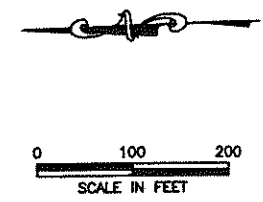
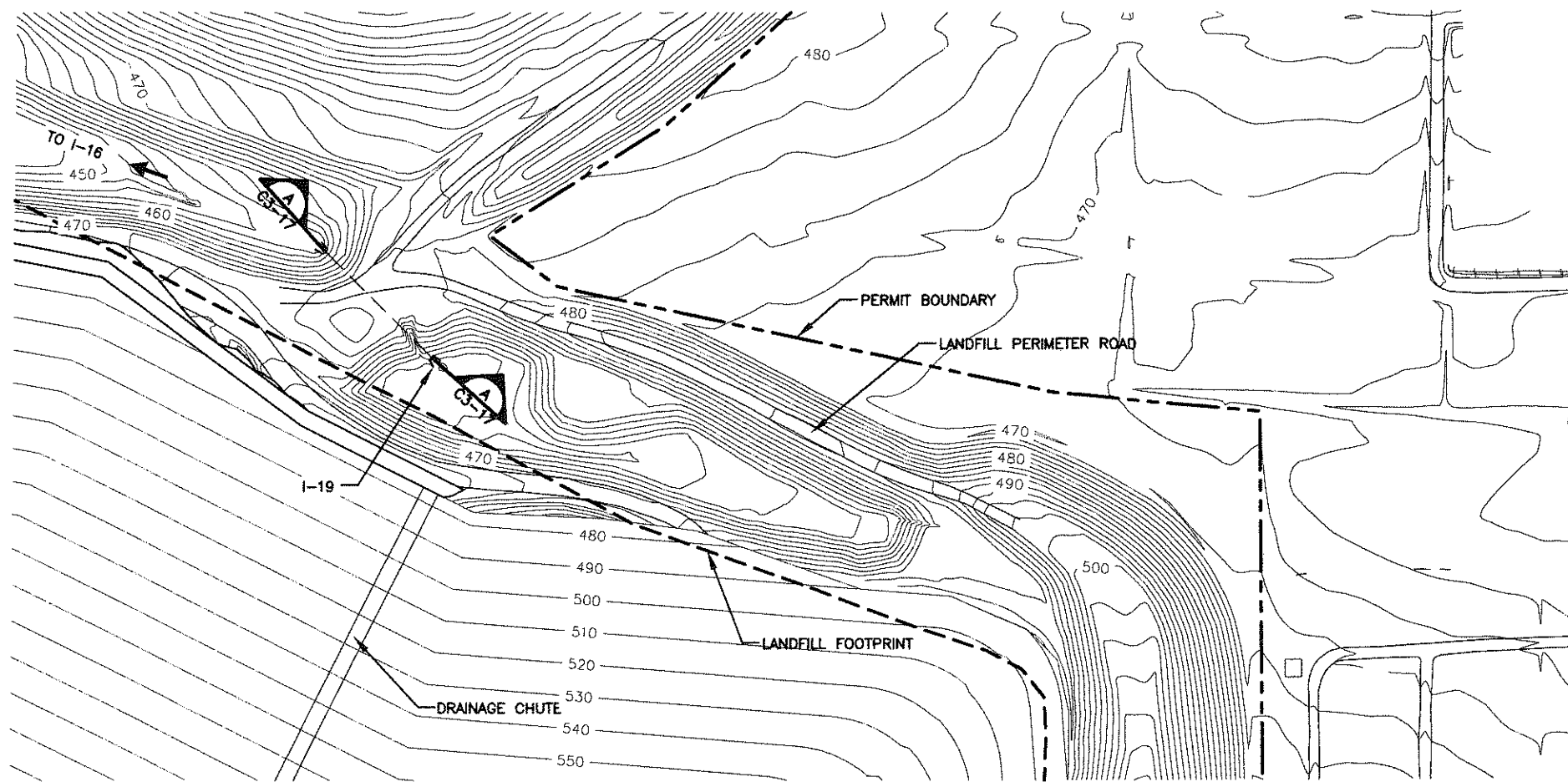


**I-16
(EXISTING STRUCTURE)**
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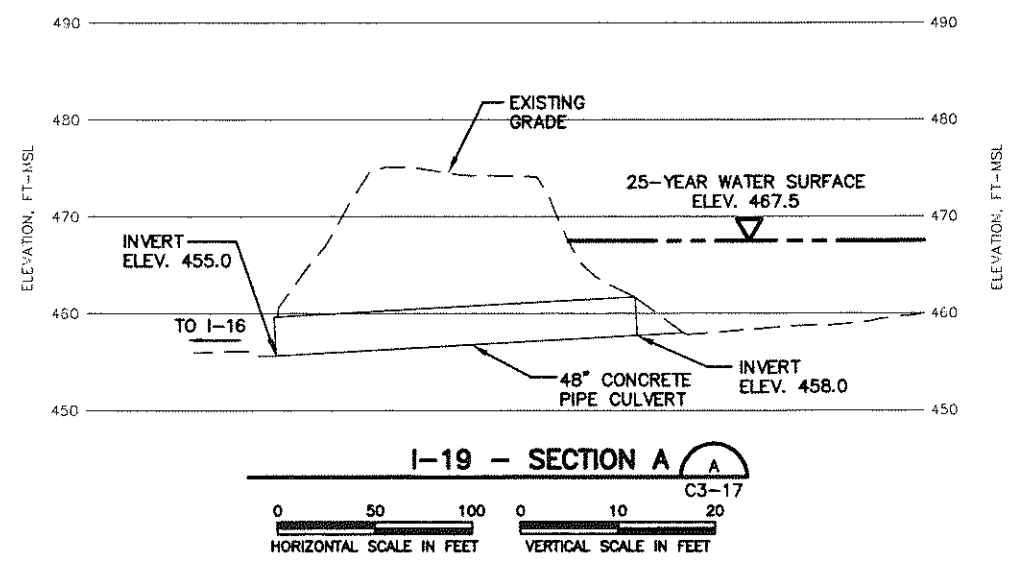
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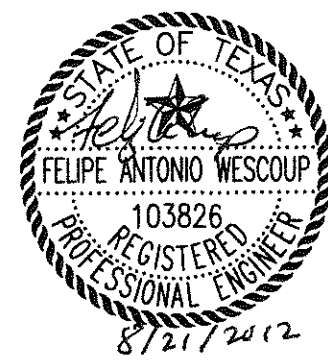
- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 480 EXISTING 2' GROUND CONTOUR
 - 500 PROPOSED 10' FINAL COVER CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.




I-19 ELEVATION-STORAGE RELATIONSHIP	
ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
458	0.000
460	0.218
462	0.793
464	1.775
466	3.394
468	5.582
470	8.284
472	11.517
474	15.436
476	19.837
478	24.237



**I-19
(EXISTING STRUCTURE)**

**WASTE MANAGEMENT OF TEXAS, INC.
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MAJOR PERMIT AMENDMENT**

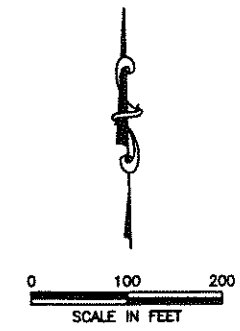
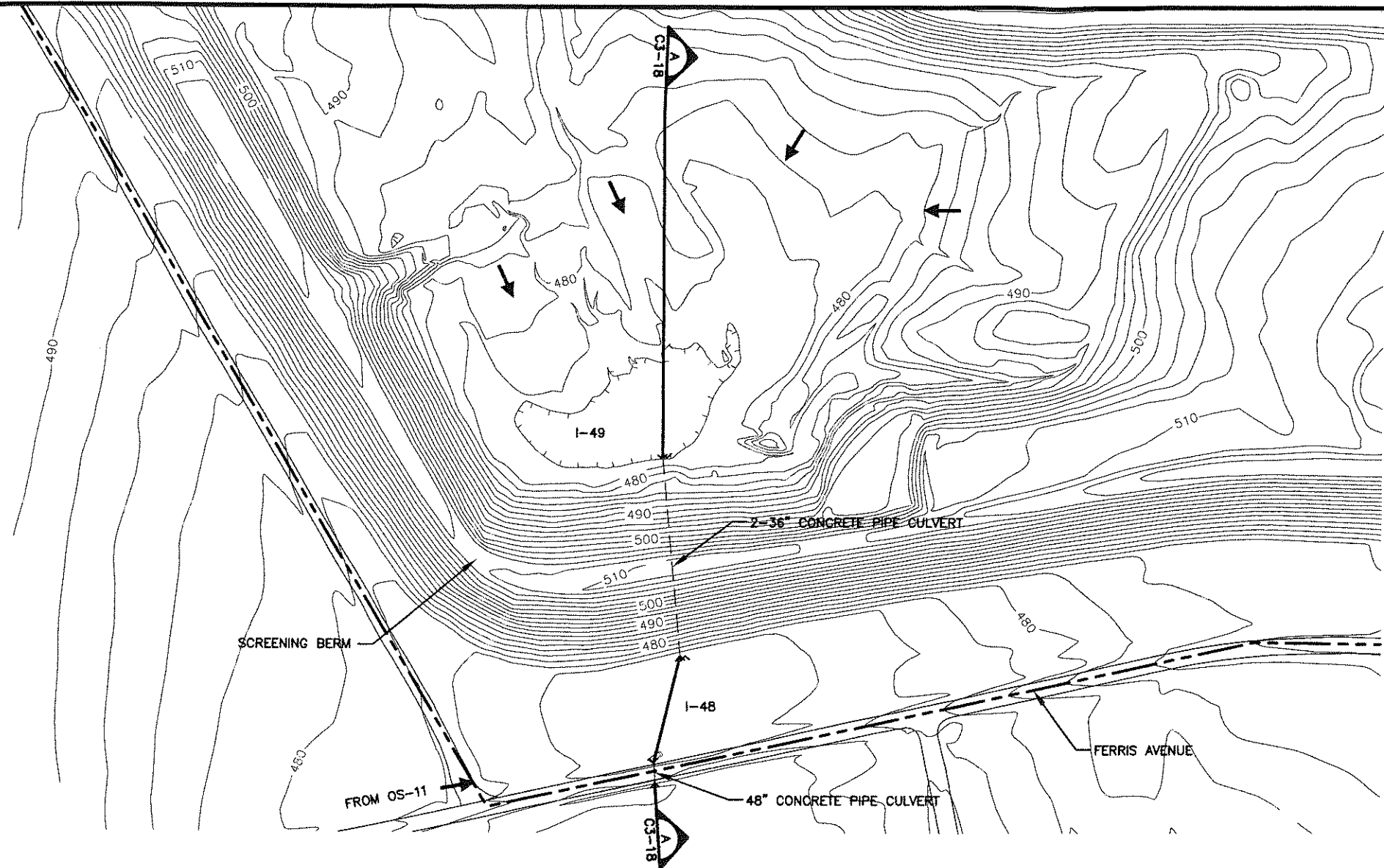


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REVISIONS						TBPE FIRM NO. F-255		TBPG FIRM NO. 50222	
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN. FAW	DATE : 08/12	DRAWING
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							CHK. KJW	DWG : C3_17.dwg	

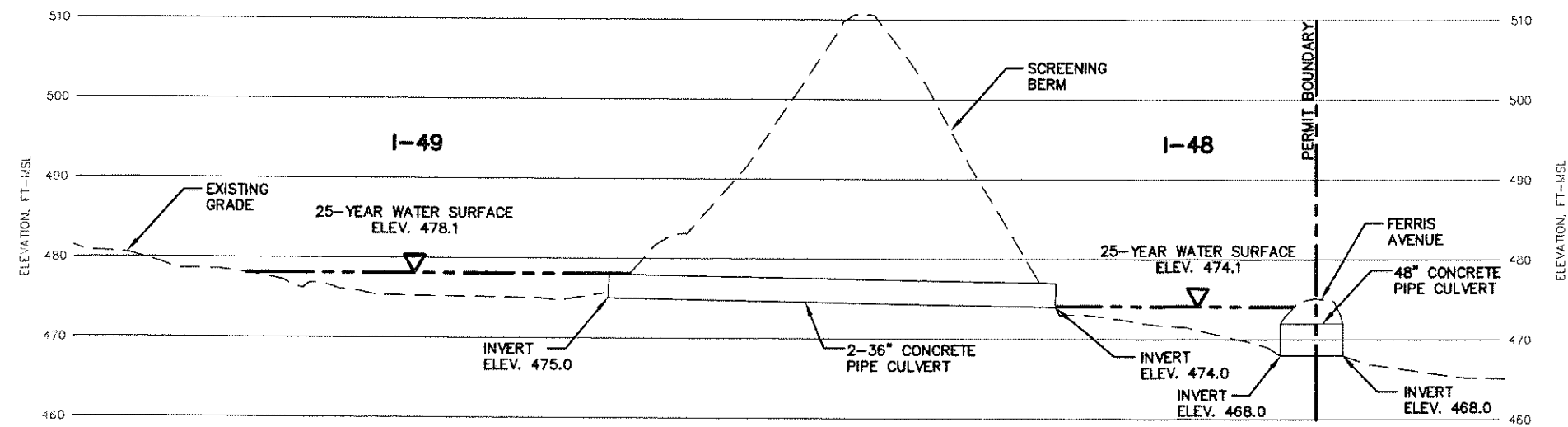
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- LEGEND**
- PERMIT BOUNDARY
 - LANDFILL FOOTPRINT
 - 480 EXISTING 2' GROUND CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.

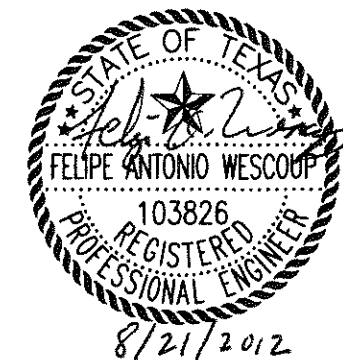


POND I-48 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
468	0
472	0.0001
474	0.660
476	4.341


POND I-49 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
474	0
476	0.425
478	3.482
480	10.499



I-48 & I-49

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SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT

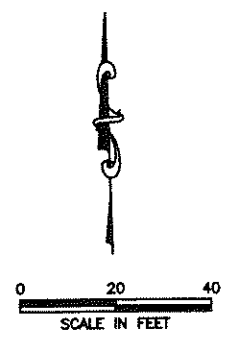
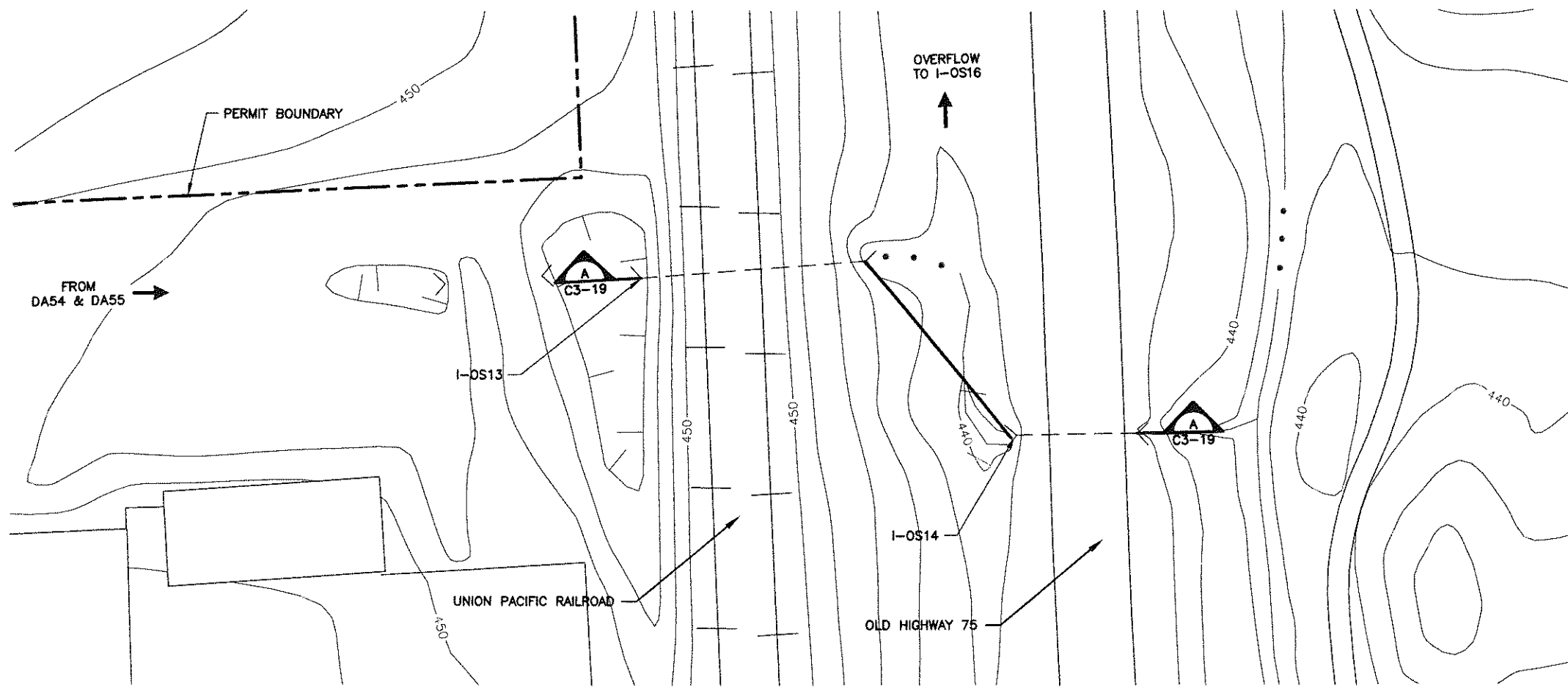


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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DRAWING
							C3-18

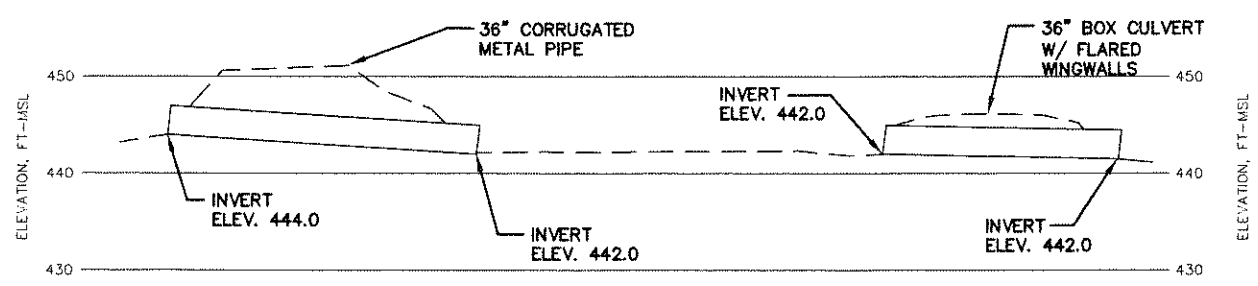
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- LEGEND**
- PERMIT BOUNDARY
 - 440 EXISTING 2' GROUND CONTOUR

NOTE:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



I-OS13 & I-OS14 SECTION

C3-19

0 20 40 HORIZONTAL SCALE IN FEET

0 10 20 VERTICAL SCALE IN FEET

I-OS13 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
444	0.018
446	0.085
448	0.463
450	1.665
452	3.353

I-OS14 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
440	0.002
442	0.051
444	0.180



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I-OS13 AND I-OS14

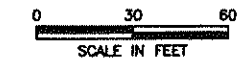
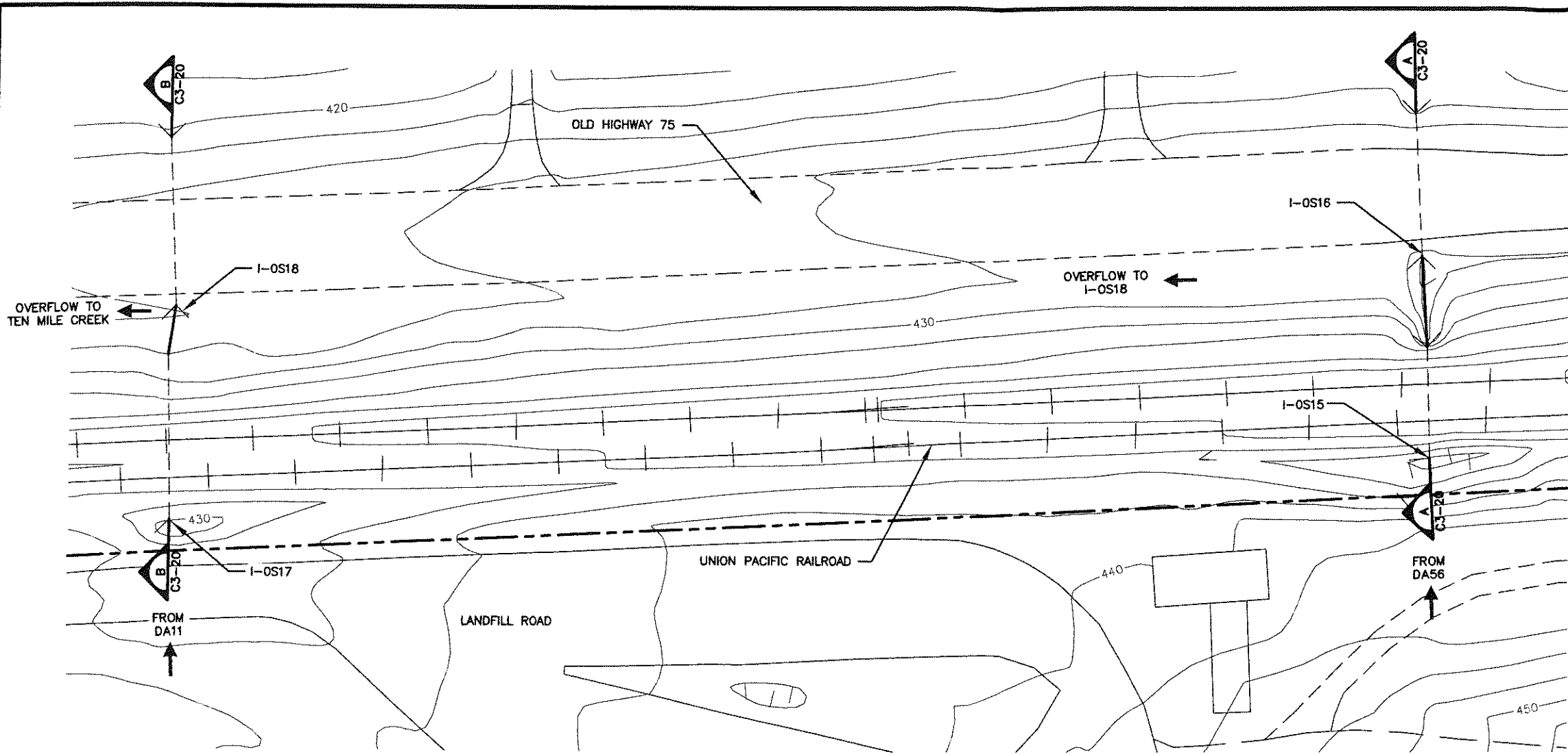
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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN. FAW DATE : 08/12 DWN. BBB SCALE : GRAPHIC CHK. KJW DWG : C3_19.dwg

DRAWING
C3-19

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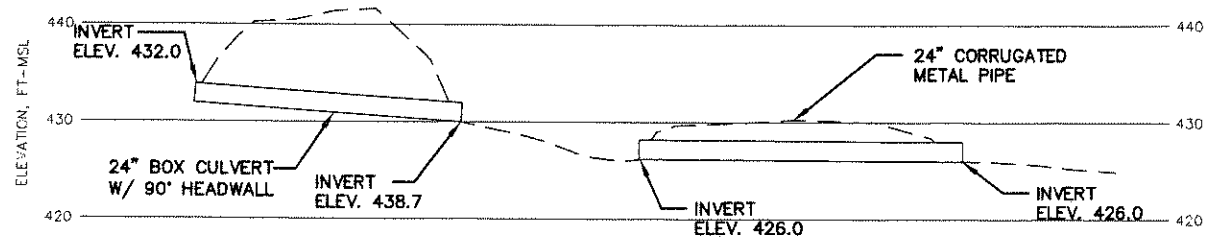


LEGEND

- PERMIT BOUNDARY
- LANDFILL FOOTPRINT
- 440 --- EXISTING 2' GROUND CONTOUR

NOTE:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.



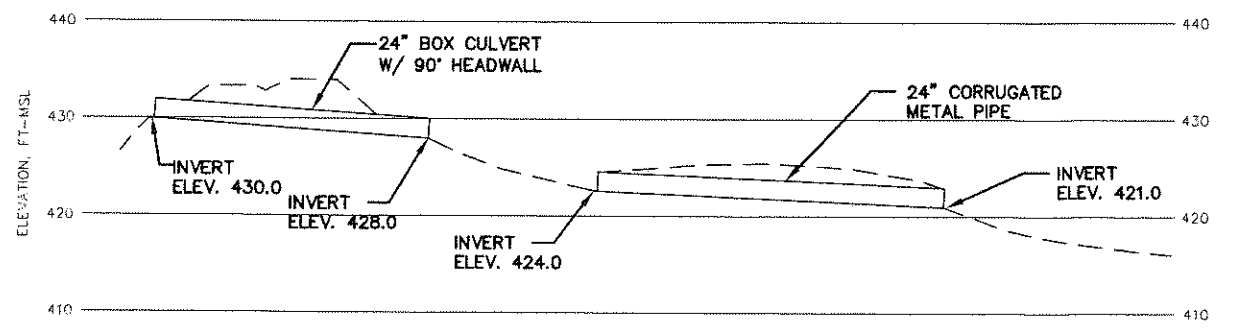
I-OS15 & I-OS16 SECTION
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 10, 20
 C3-20

I-OS15 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
432	0.001
434	0.025
436	0.118
438	0.339
440	0.660

I-OS16 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
426	0.000
428	0.009
430	0.037
432	0.065



I-OS17 & I-OS18 SECTION
 HORIZONTAL SCALE IN FEET: 0, 20, 40
 VERTICAL SCALE IN FEET: 0, 10, 20
 C3-20

I-OS17 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
428	0.000
430	0.004
432	0.030
434	0.203

I-OS18 ELEVATION-STORAGE RELATIONSHIP

ELEVATION (FT)	VOLUME AT ELEVATION (AC-FT)
424	0.004
426	0.127



**I-OS15 AND I-OS16
 I-OS17 AND I-OS18**
WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
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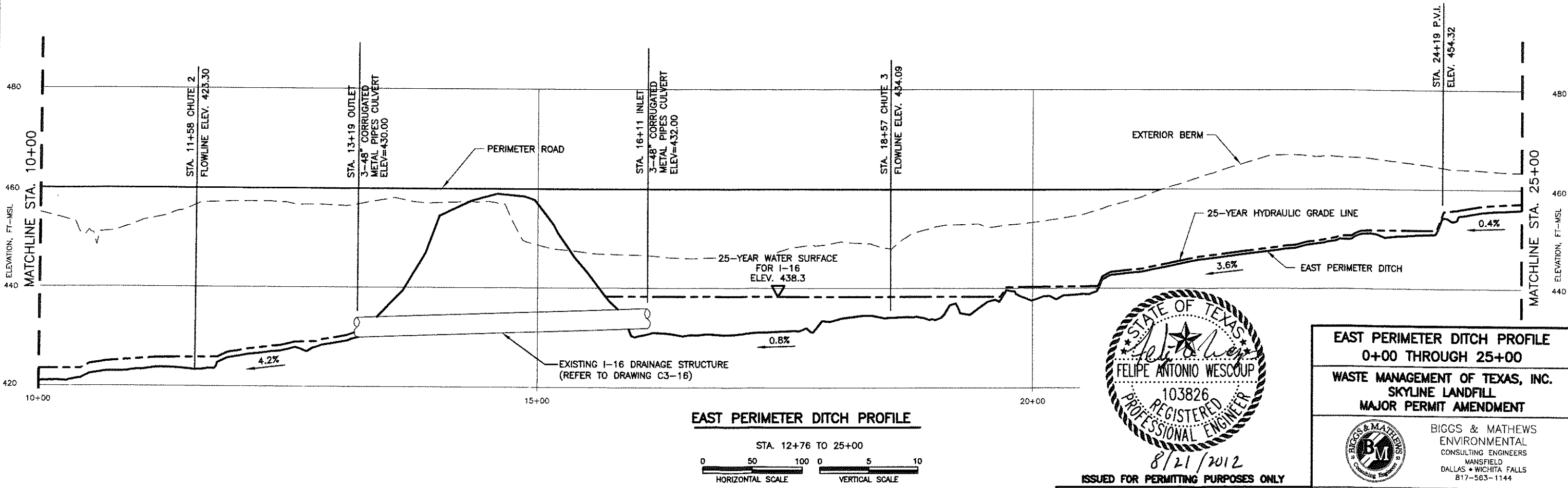
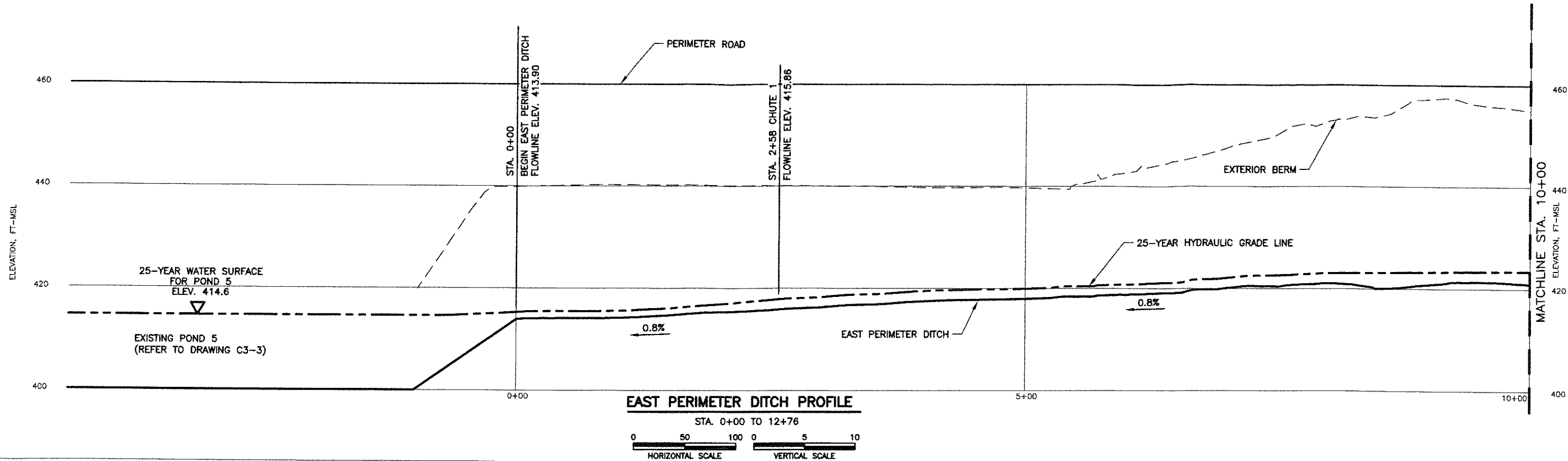


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DRAWING C3-20

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8/21/2012

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0+00 THROUGH 25+00**
WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT



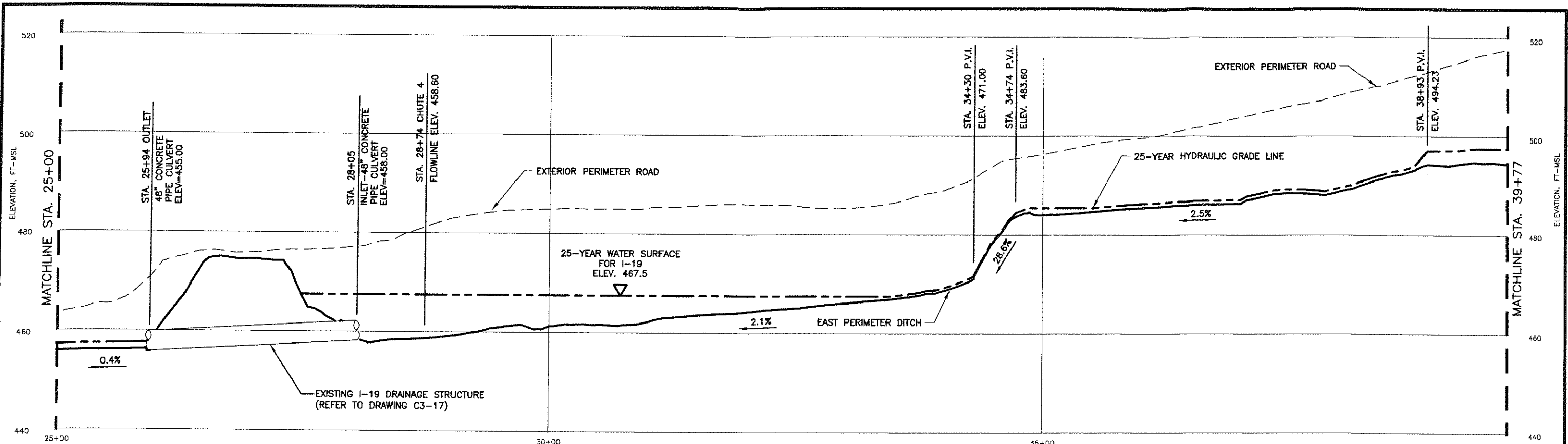
BIGGS & MATHEWS
ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD
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817-563-1144

REVISIONS							TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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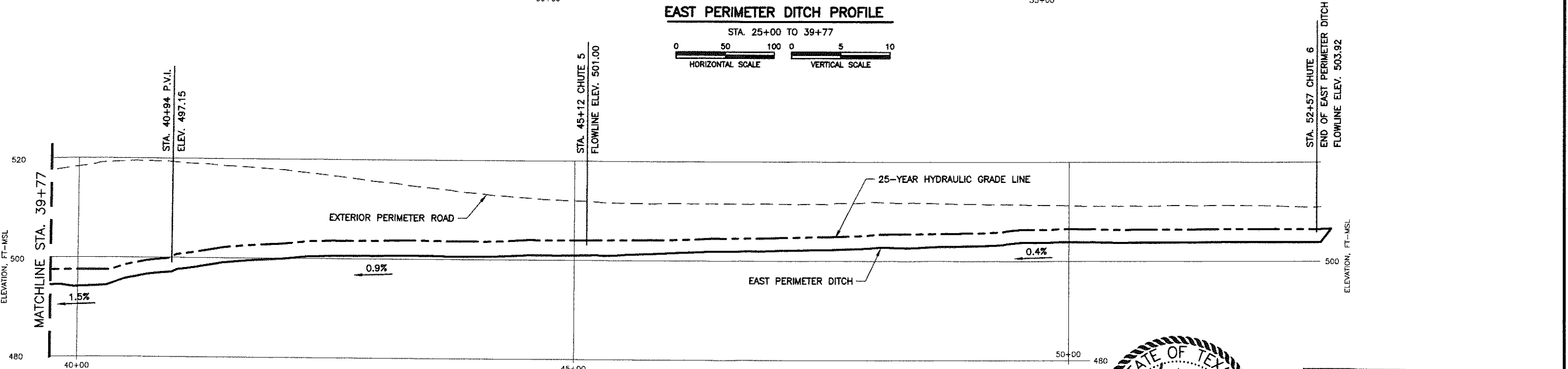
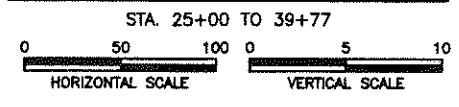
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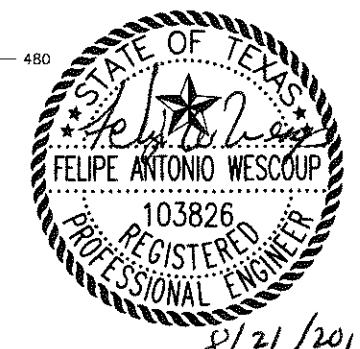
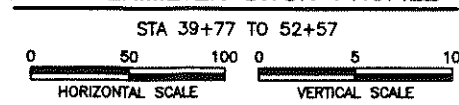
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EAST PERIMETER DITCH PROFILE




EAST PERIMETER DITCH PROFILE



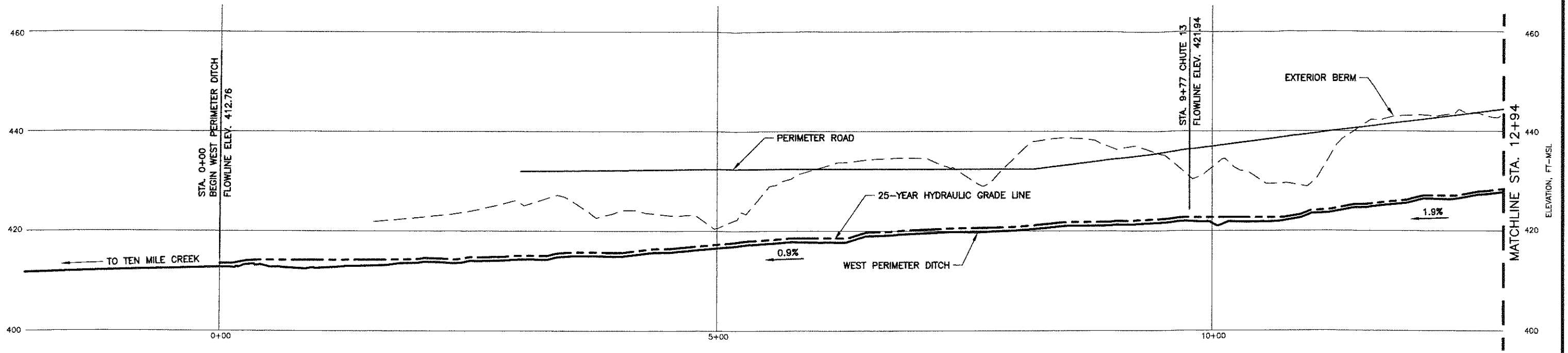
8/21/2012

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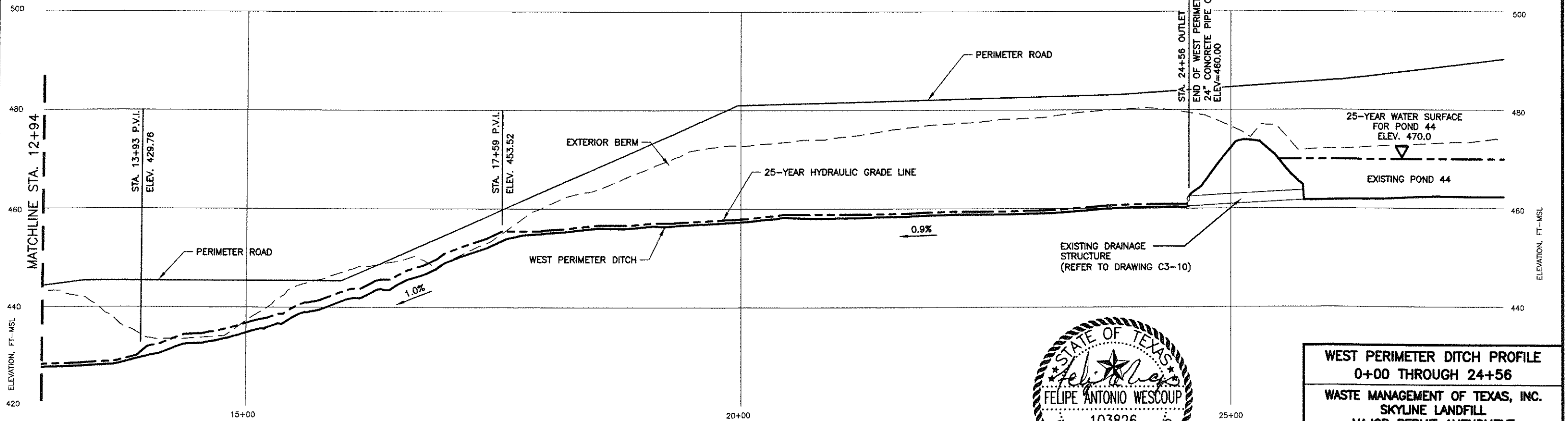
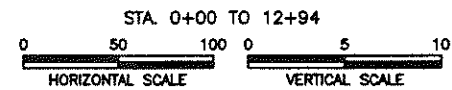
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25+00 THROUGH 52+57	
WASTE MANAGEMENT OF TEXAS, INC.	
SKYLINE LANDFILL	
MAJOR PERMIT AMENDMENT	
 BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144	
TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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C3-22	

REVISIONS						
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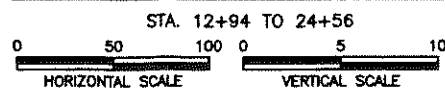
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WEST PERIMETER DITCH PROFILE



WEST PERIMETER DITCH PROFILE



8/21/2012

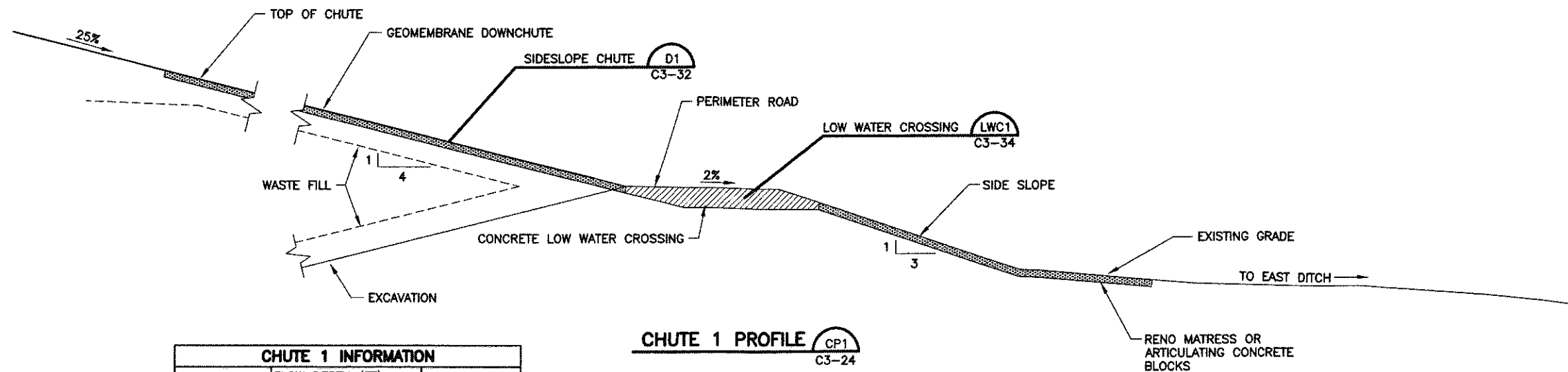
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**WEST PERIMETER DITCH PROFILE
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SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT

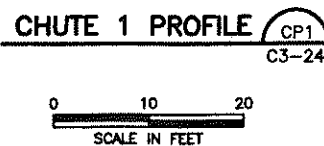


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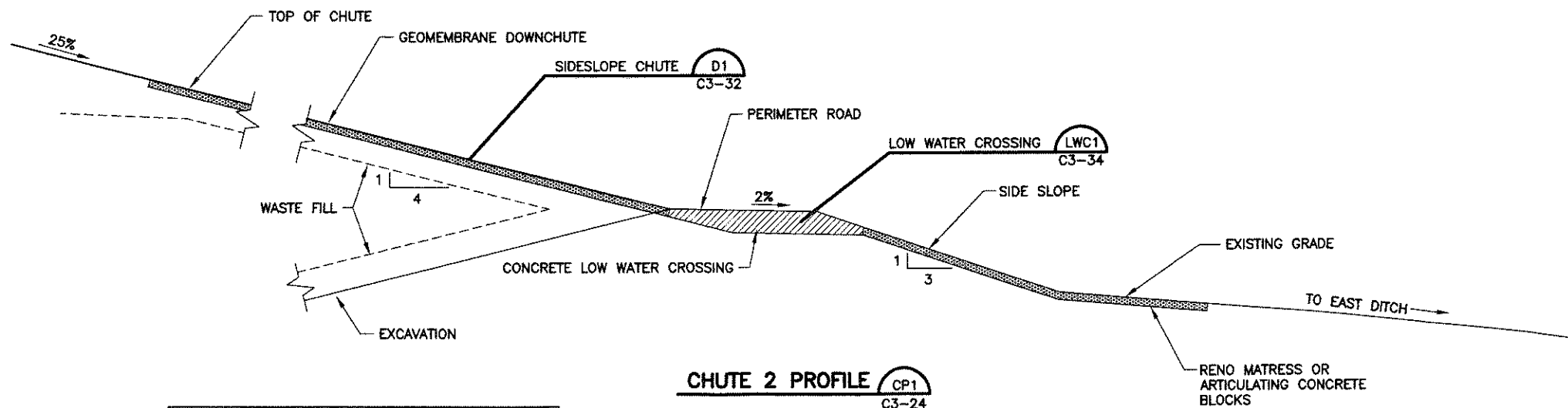
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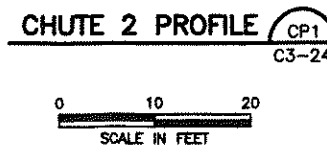
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CHUTE	FLOW DEPTH (FT)	0.07
	FLOW VELOCITY (FPS)	9.63
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.19
	FLOW VELOCITY (FPS)	3.25
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.09
	FLOW VELOCITY (FPS)	6.85



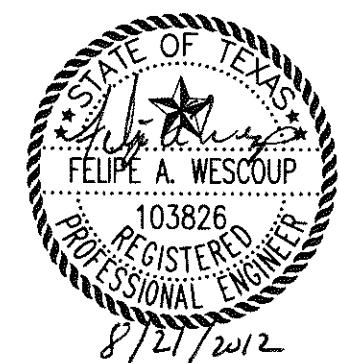
NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE 2 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.16
	FLOW VELOCITY (FPS)	16.50
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.42
	FLOW VELOCITY (FPS)	5.20
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.21
	FLOW VELOCITY (FPS)	11.34



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE PROFILES

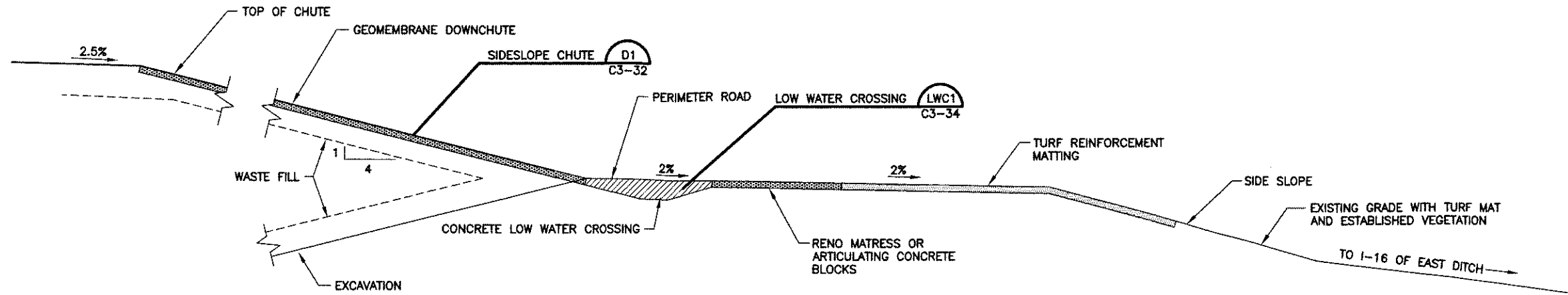
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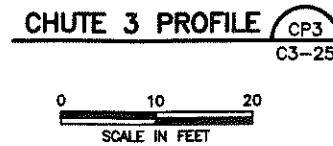
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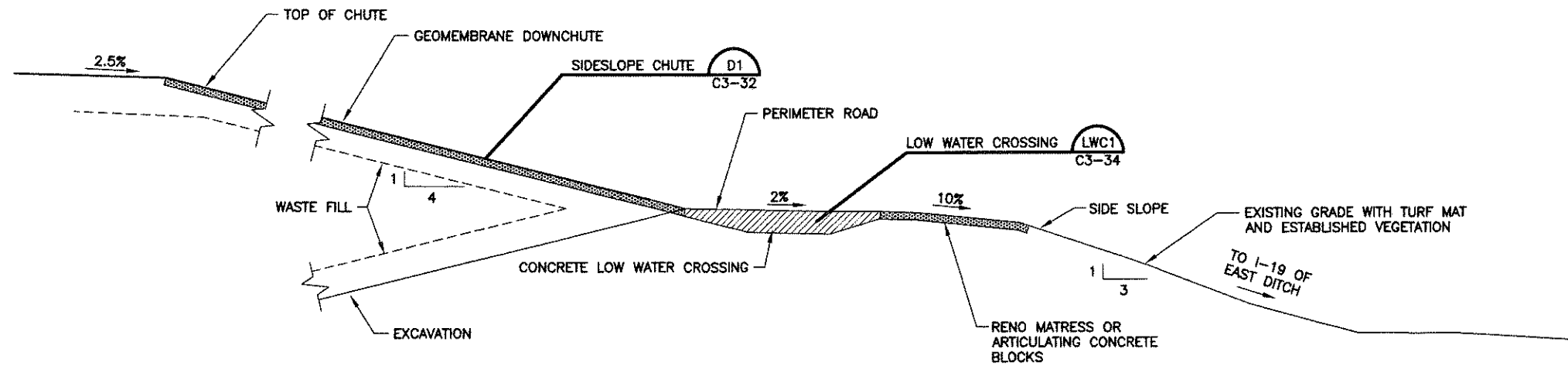
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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DRAWING
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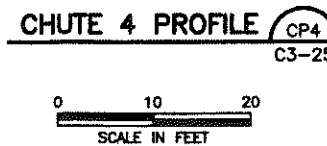
CHUTE 3 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.21
	FLOW VELOCITY (FPS)	19.93
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.55
	FLOW VELOCITY (FPS)	6.09
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.62
	FLOW VELOCITY (FPS)	5.22



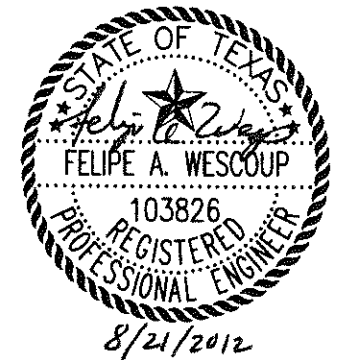
NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE 4 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.22
	FLOW VELOCITY (FPS)	20.03
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.56
	FLOW VELOCITY (FPS)	6.11
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.40
	FLOW VELOCITY (FPS)	9.08



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



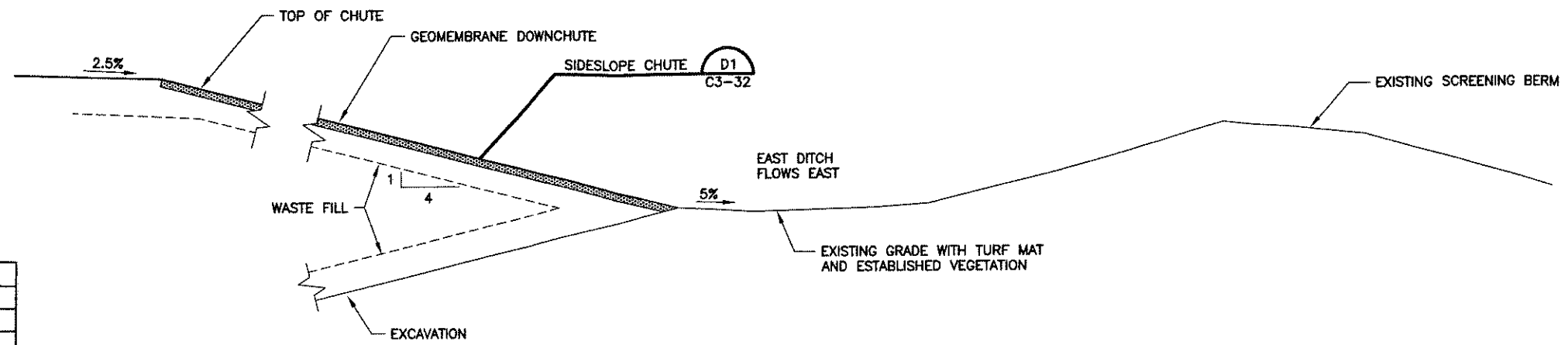
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	BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144
TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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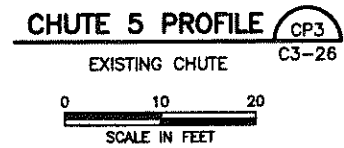
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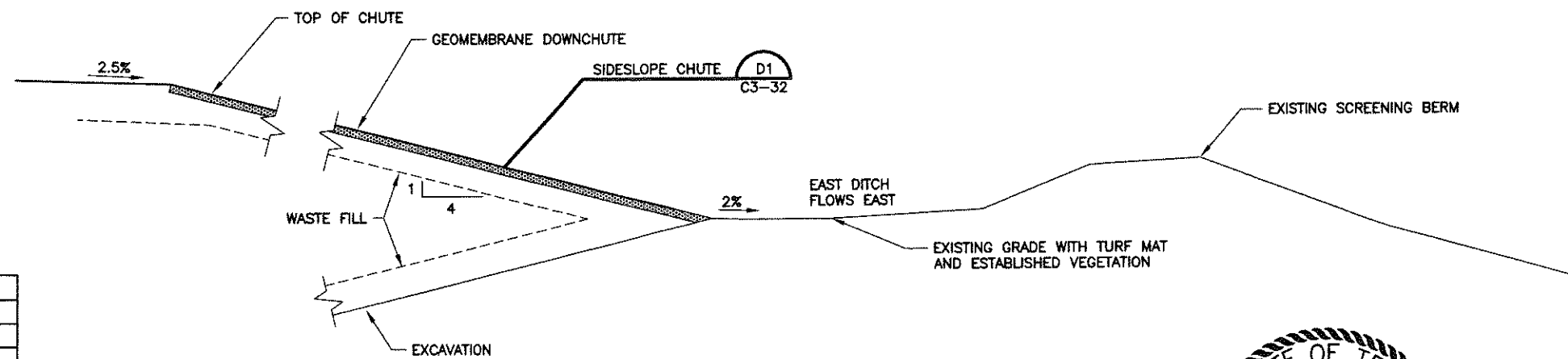
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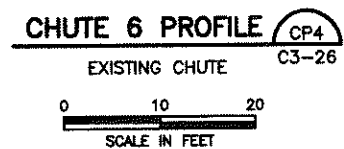
CHUTE 5 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.23
	FLOW VELOCITY (FPS)	20.98
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.59
	FLOW VELOCITY (FPS)	6.35
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.52
	FLOW VELOCITY (FPS)	7.46



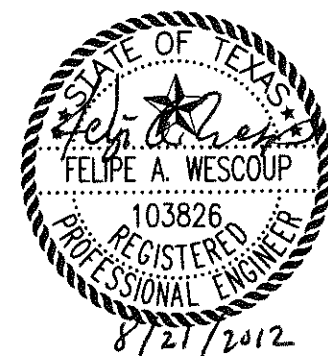
NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE 6 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.19
	FLOW VELOCITY (FPS)	18.40
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.49
	FLOW VELOCITY (FPS)	5.70
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.56
	FLOW VELOCITY (FPS)	4.89



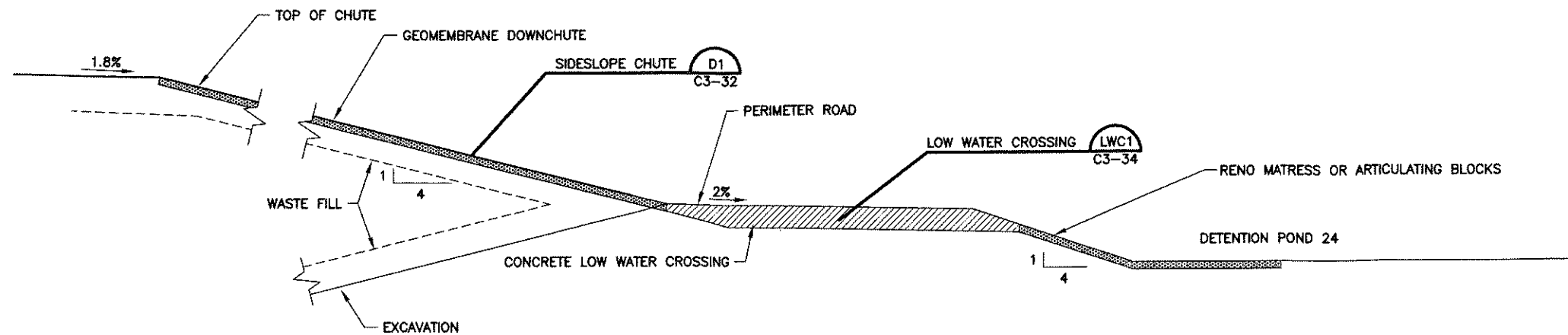
NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



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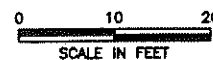
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	BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144
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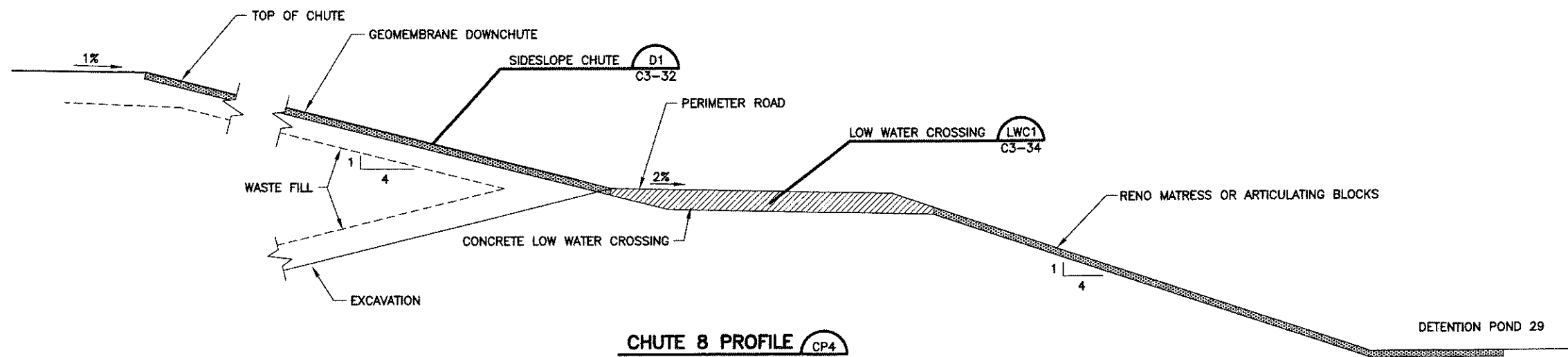


CHUTE 7 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.24
	FLOW VELOCITY (FPS)	21.54
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.62
	FLOW VELOCITY (FPS)	6.49
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.35
	FLOW VELOCITY (FPS)	13.15

CHUTE 7 PROFILE CP3
C3-27



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.

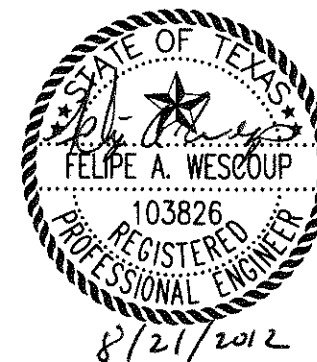


CHUTE 8 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.18
	FLOW VELOCITY (FPS)	17.93
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.47
	FLOW VELOCITY (FPS)	5.58
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.26
	FLOW VELOCITY (FPS)	11.17

CHUTE 8 PROFILE CP4
C3-27



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE PROFILES

WASTE MANAGEMENT OF TEXAS, INC.
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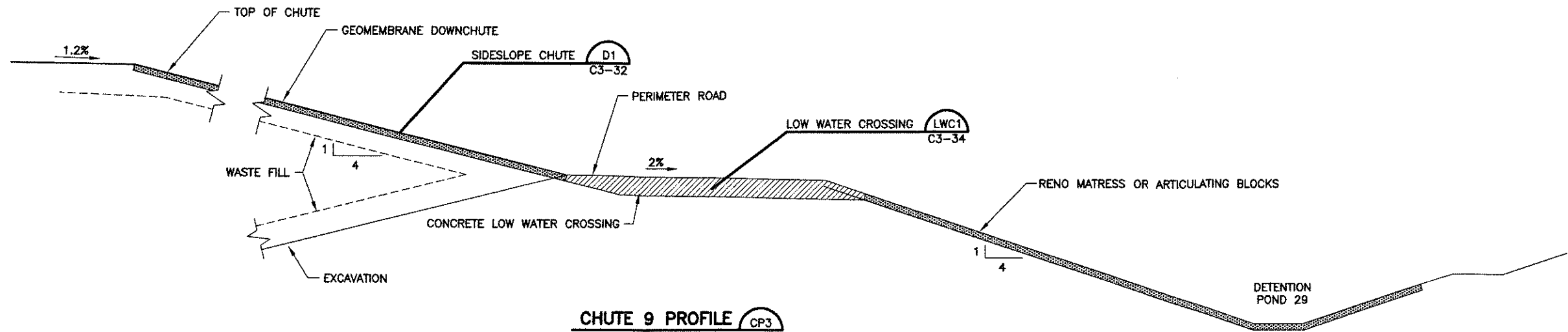


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DRAWING
C3-27

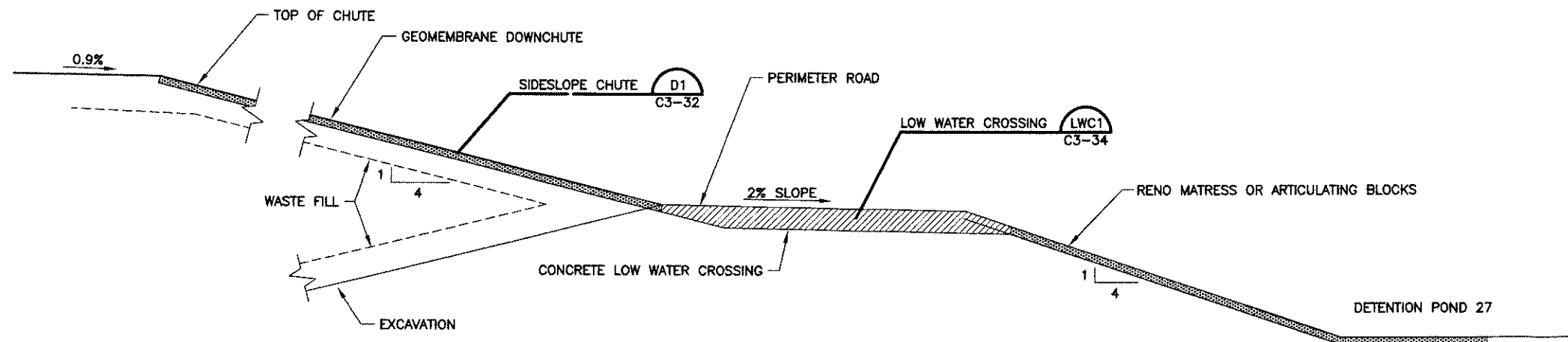


CHUTE 9 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.20
	FLOW VELOCITY (FPS)	18.83
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.51
	FLOW VELOCITY (FPS)	5.81
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.28
	FLOW VELOCITY (FPS)	11.67

CHUTE 9 PROFILE CP3
C3-28

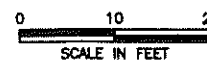


NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE 10 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.21
	FLOW VELOCITY (FPS)	19.67
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.54
	FLOW VELOCITY (FPS)	6.02
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.30
	FLOW VELOCITY (FPS)	12.14

CHUTE 10 PROFILE CP4
C3-28



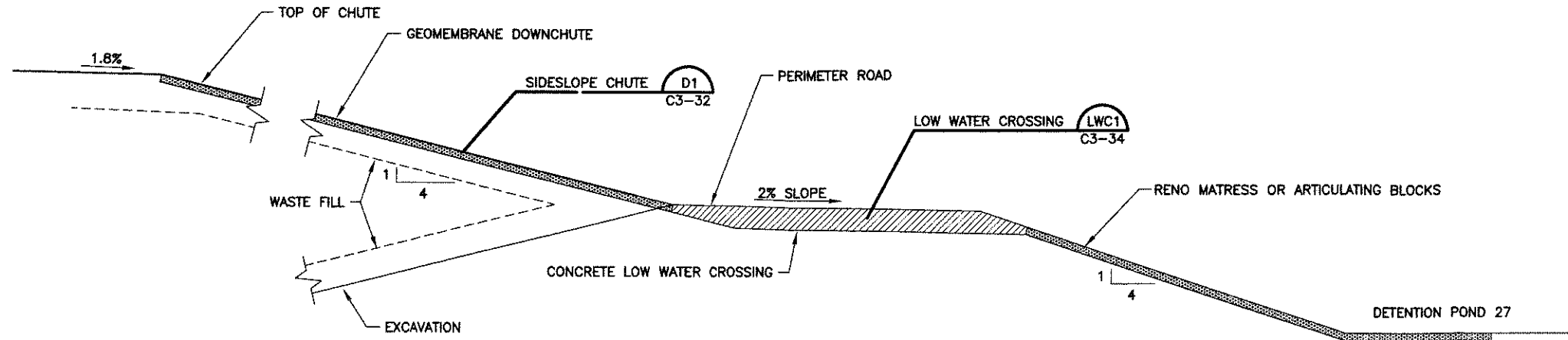
NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE PROFILES	
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT	
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DSN. FAW	DATE : 08/12
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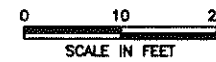
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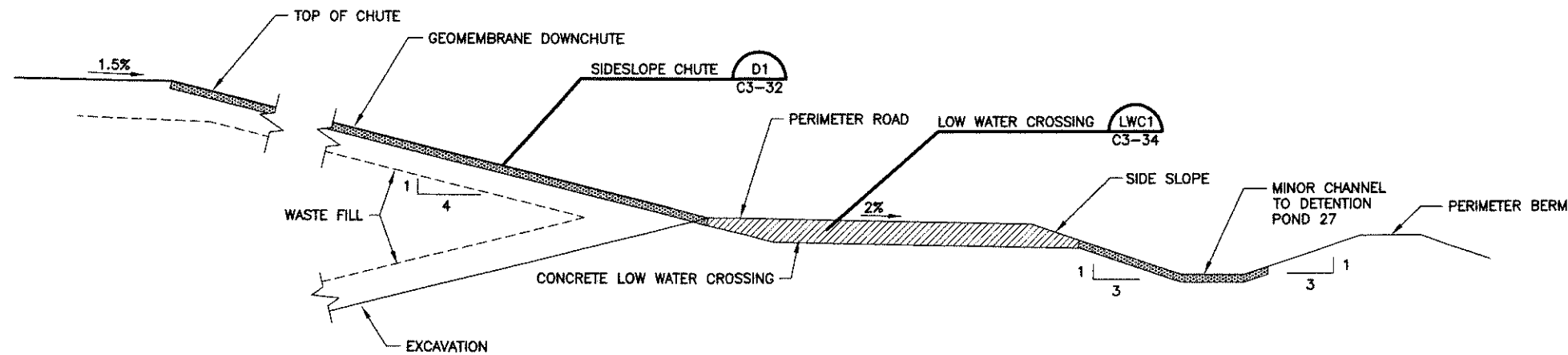


CHUTE 11 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.21
	FLOW VELOCITY (FPS)	19.40
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.53
	FLOW VELOCITY (FPS)	5.96
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.30
	FLOW VELOCITY (FPS)	11.99

CHUTE 11 PROFILE CP3
C3-29



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.

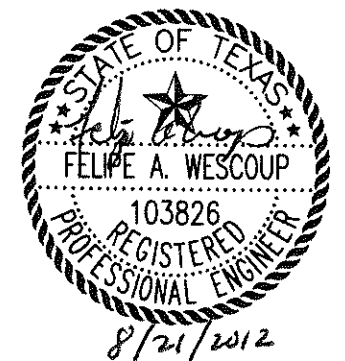


CHUTE 12 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.25
	FLOW VELOCITY (FPS)	21.68
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.62
	FLOW VELOCITY (FPS)	6.52
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.32
	FLOW VELOCITY (FPS)	14.51

CHUTE 12 PROFILE CP4
C3-29



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE PROFILES

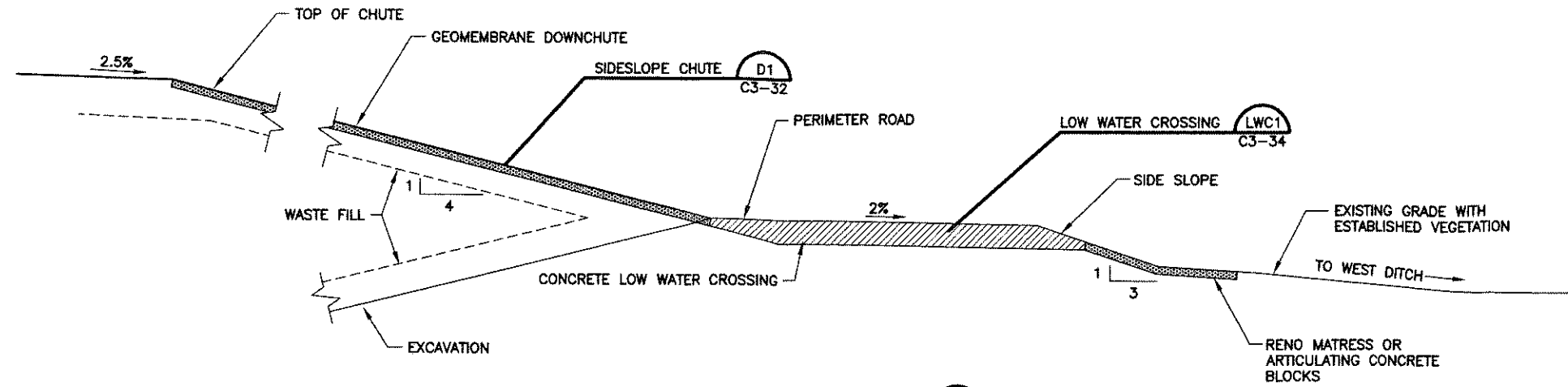
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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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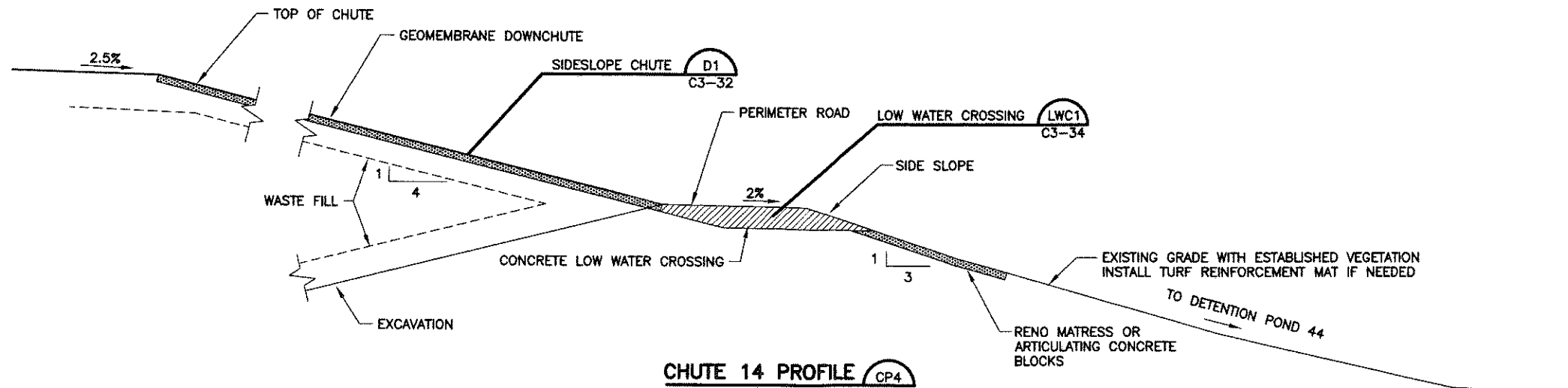


CHUTE 13 PROFILE CP3
C3-30

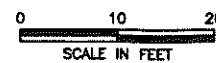


CHUTE 13 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.17
	FLOW VELOCITY (FPS)	17.17
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.44
	FLOW VELOCITY (FPS)	5.38
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.23
	FLOW VELOCITY (FPS)	11.76

NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.

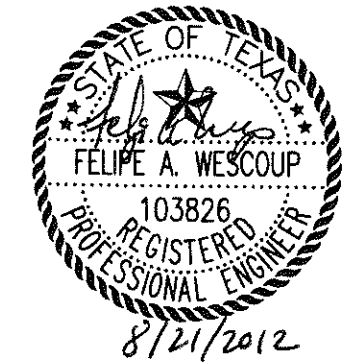


CHUTE 14 PROFILE CP4
C3-30



CHUTE 14 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.19
	FLOW VELOCITY (FPS)	18.54
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.50
	FLOW VELOCITY (FPS)	5.74
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.25
	FLOW VELOCITY (FPS)	12.61

NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.



CHUTE PROFILES

**WASTE MANAGEMENT OF TEXAS, INC.
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MAJOR PERMIT AMENDMENT**

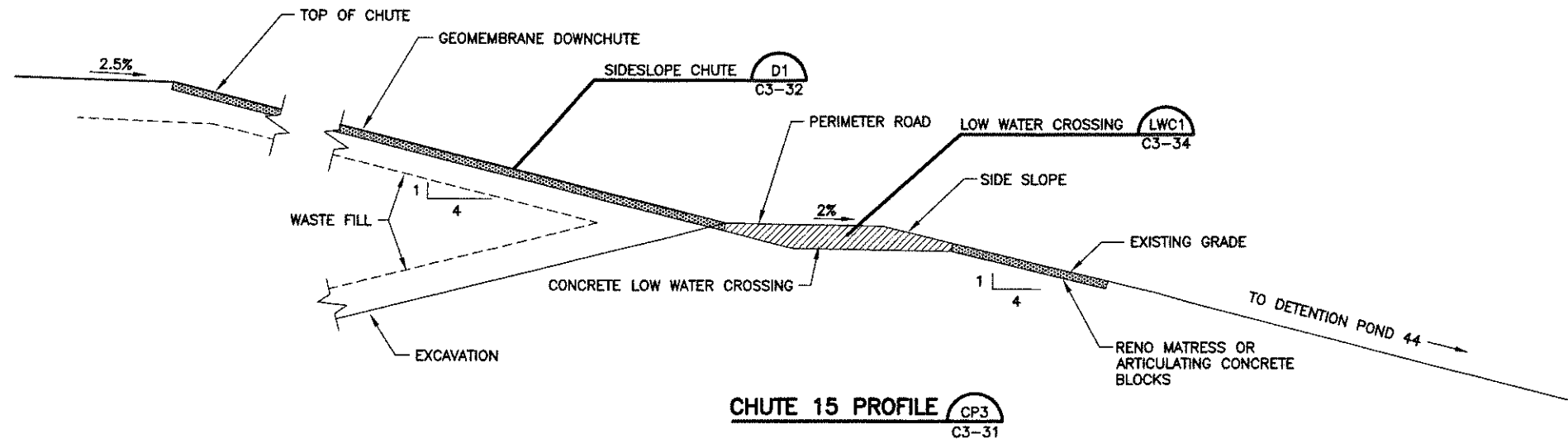


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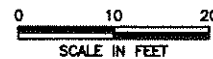
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DWN.	BBB	SCALE :	GRAPHIC				C3-30
CHK.	KJW	DWG :	C3_24-31.dwg				

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CHUTE 15 INFORMATION		
CHUTE	FLOW DEPTH (FT)	0.20
	FLOW VELOCITY (FPS)	18.91
	BERM HEIGHT (FT)	3.00
LOW-WATER CROSSING	FLOW DEPTH (FT)	0.51
	FLOW VELOCITY (FPS)	5.83
AFTER LOW-WATER CROSSING	FLOW DEPTH (FT)	0.28
	FLOW VELOCITY (FPS)	11.72



NOTE: SEE ATTACHMENT C1, APPENDIX C1-E, PAGE C1-E-18 FOR DOWNCHUTE CALCULATIONS.

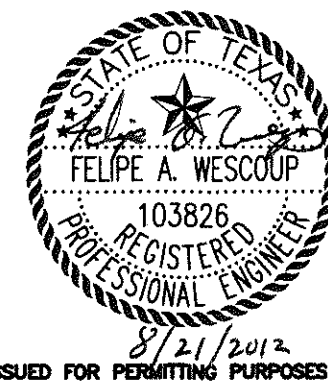
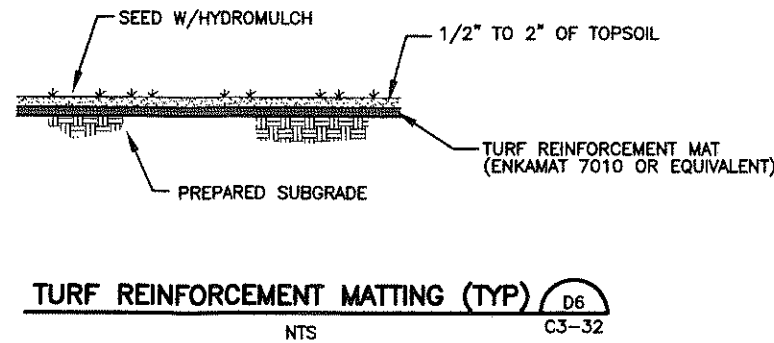
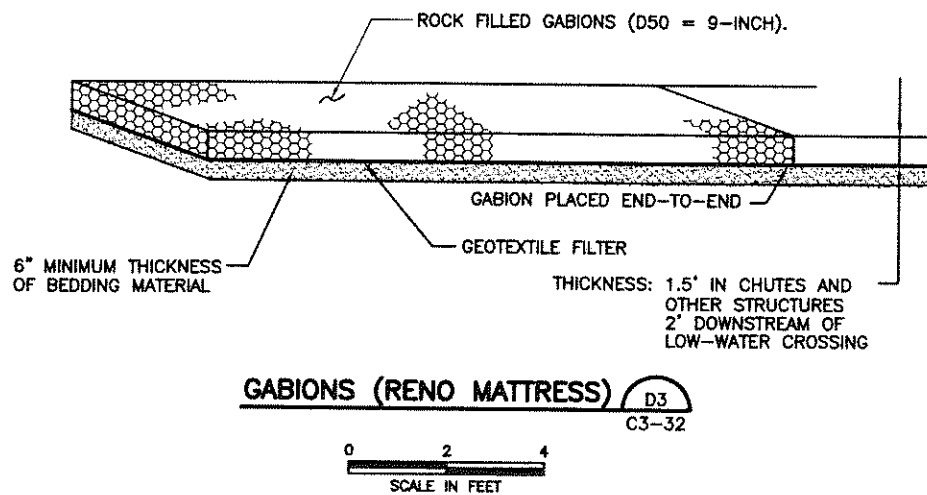
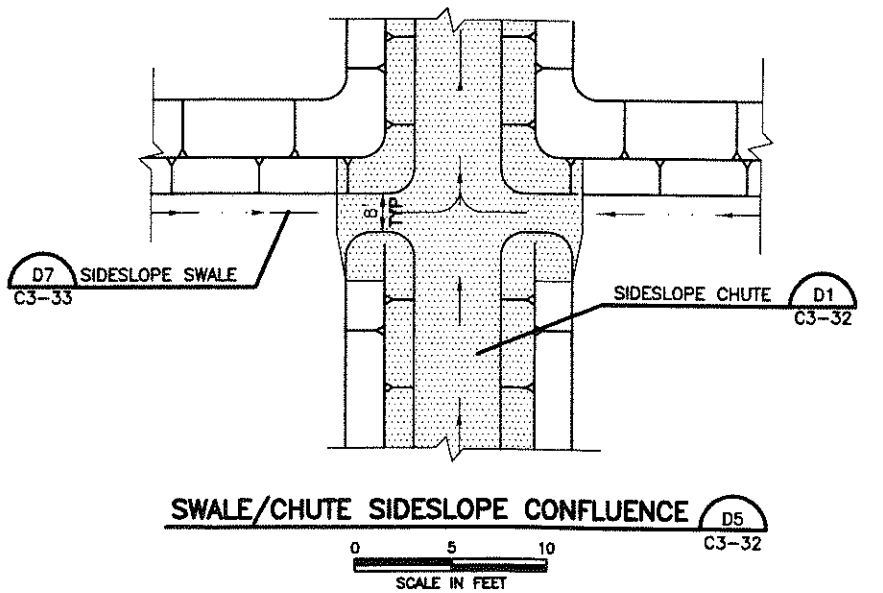
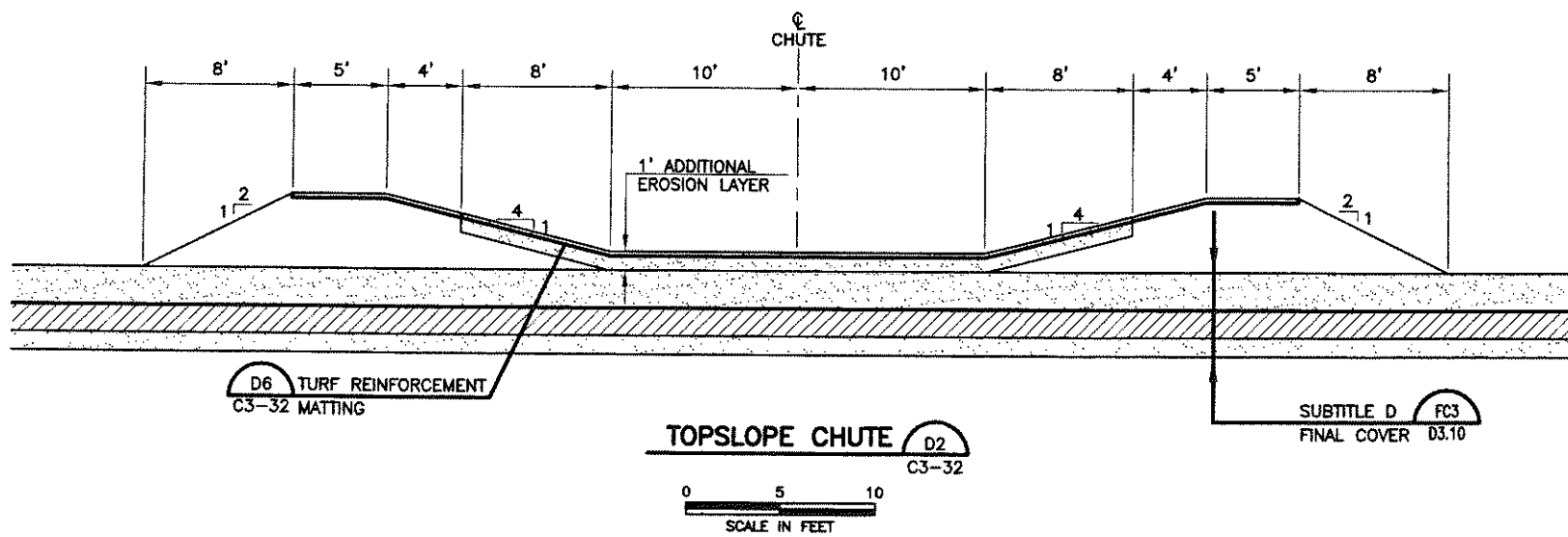
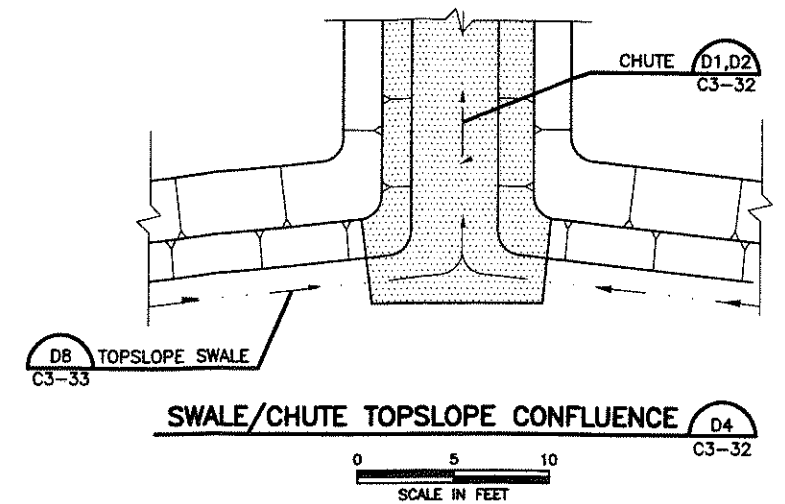
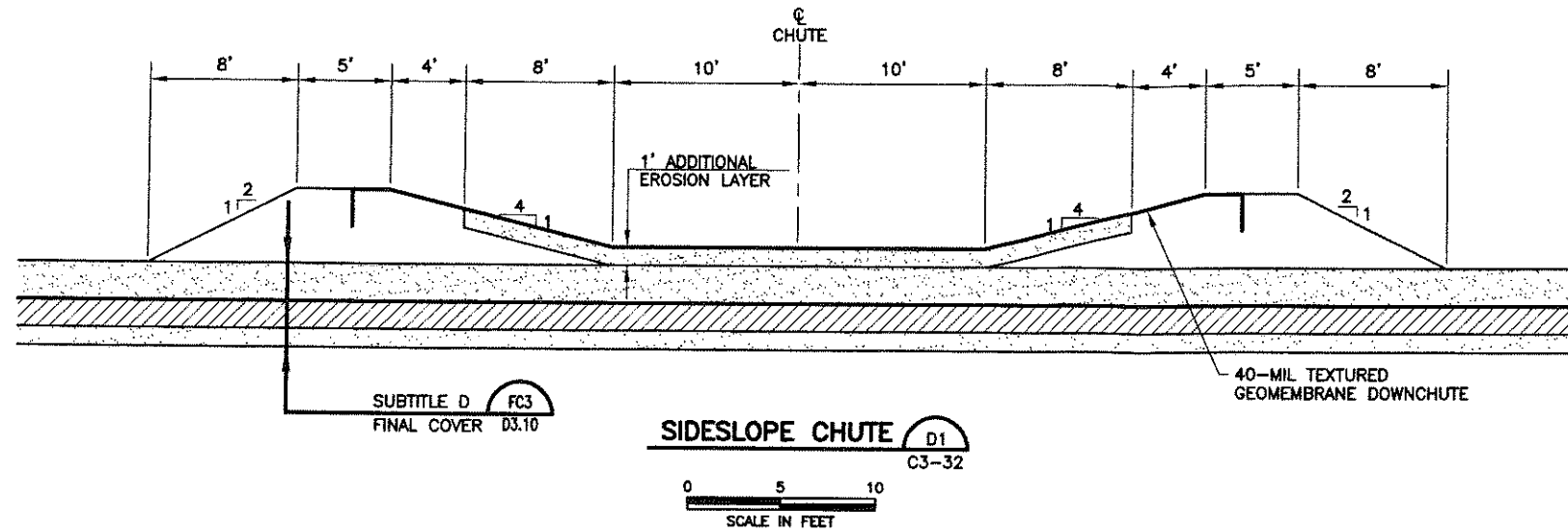


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	BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144
TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
DSN. FAW	DATE : 08/12
DWN. BBB	SCALE : GRAPHIC
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DRAWING C3-31	



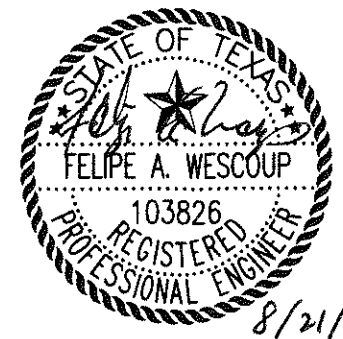
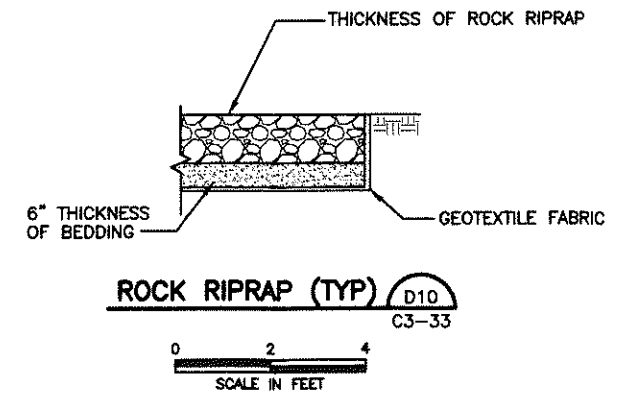
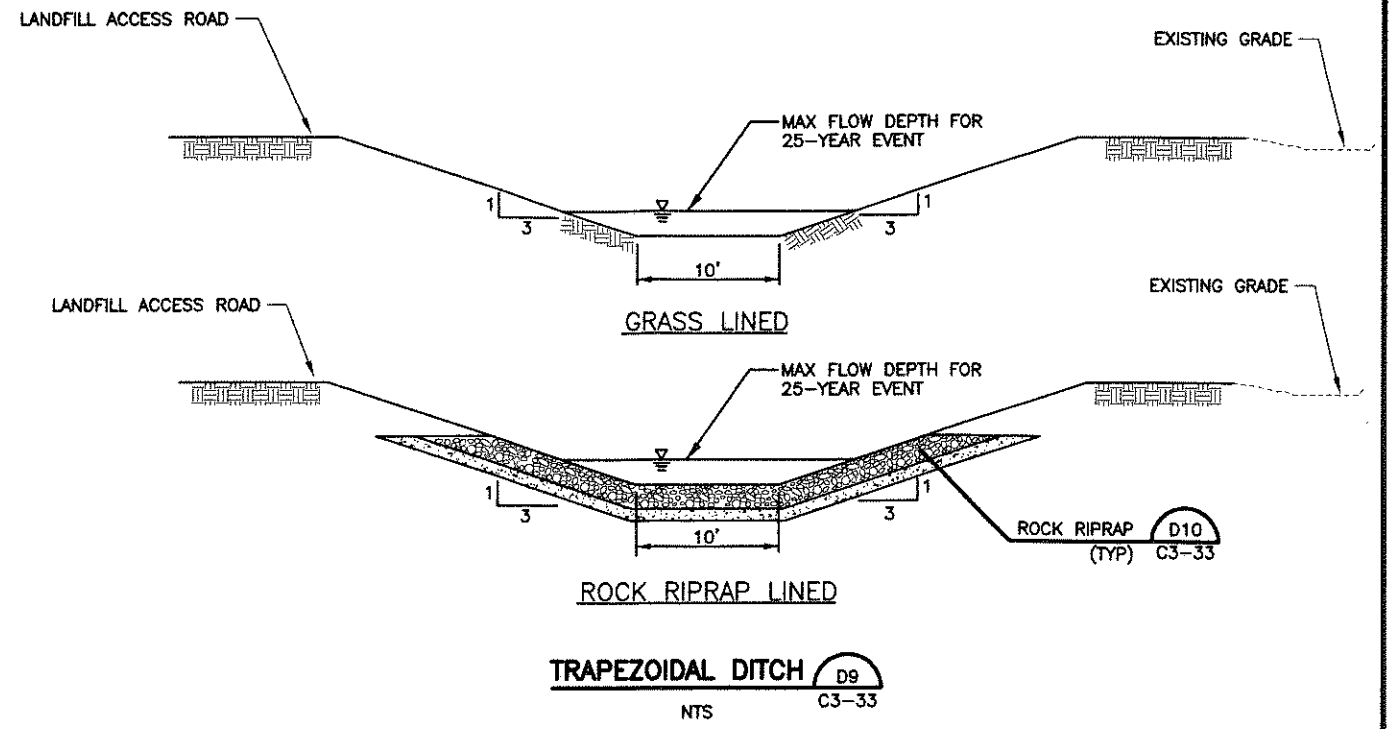
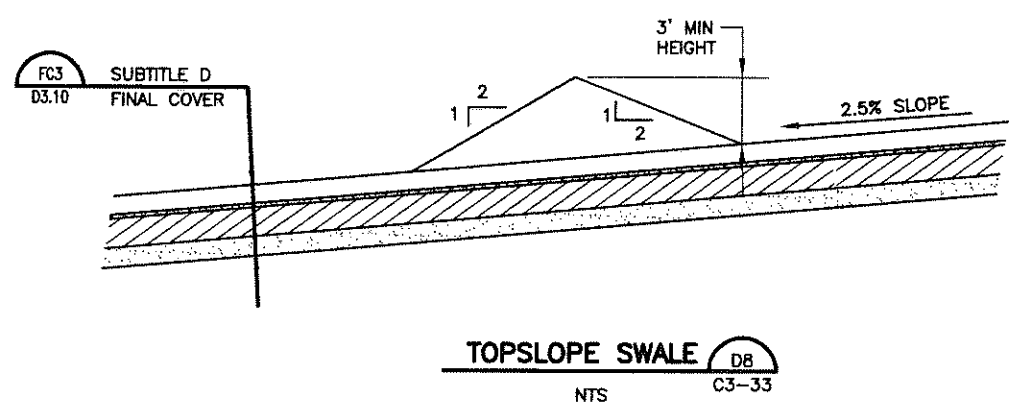
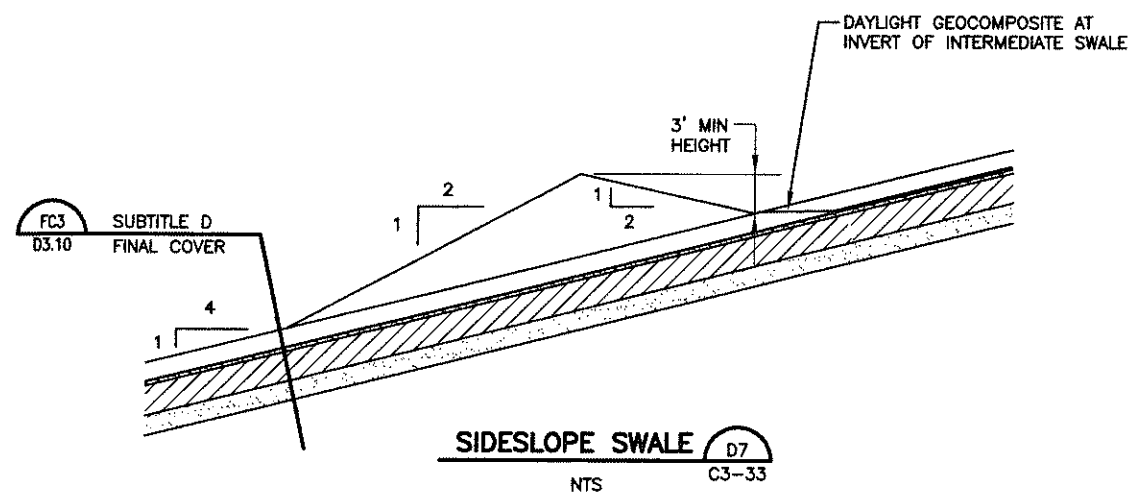
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 BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144	
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DSN. FAW	DATE : 08/12
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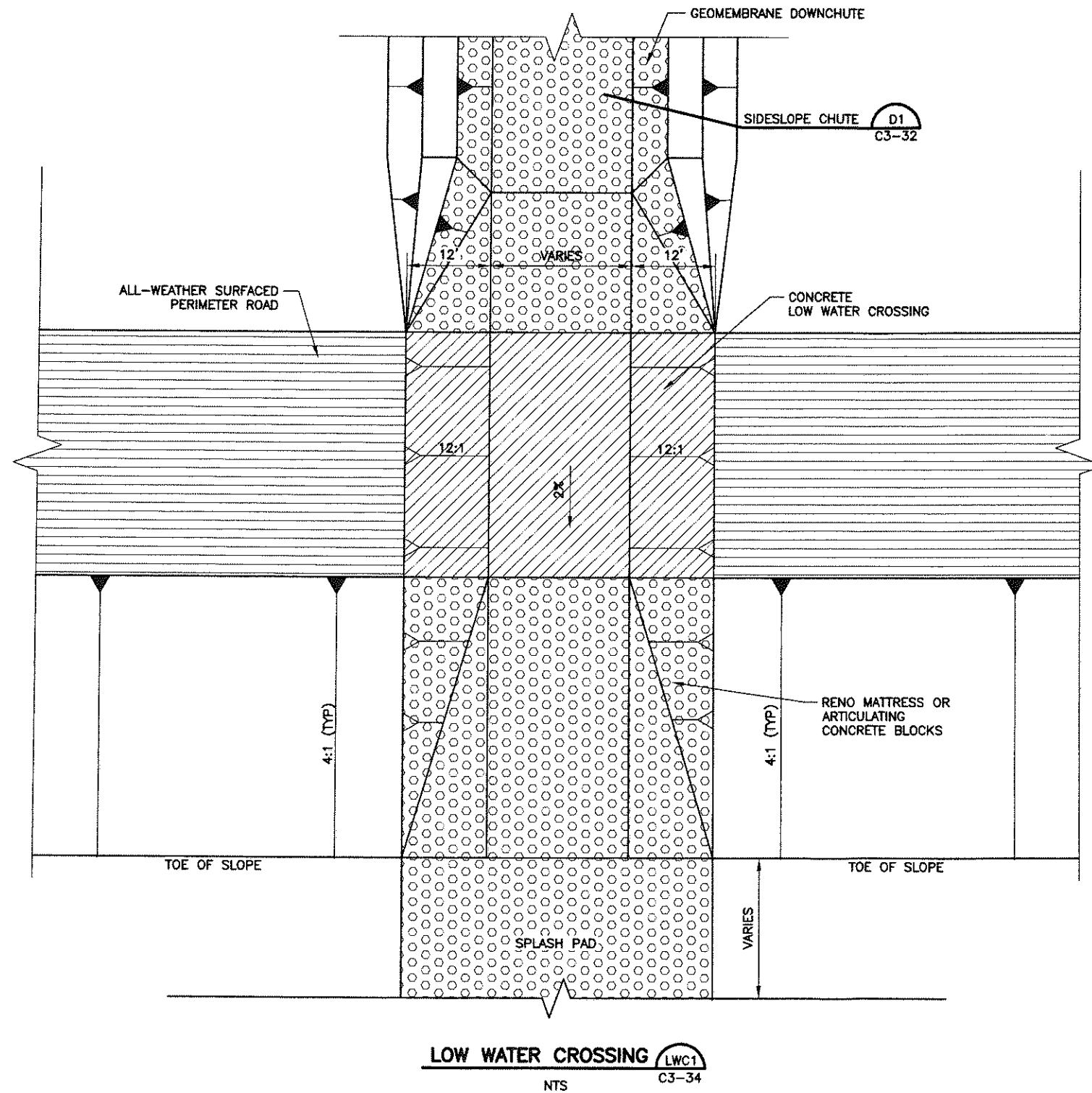
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	BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD DALLAS • WICHITA FALLS 817-563-1144
TBPE FIRM NO. F-256	TBPG FIRM NO. 50222

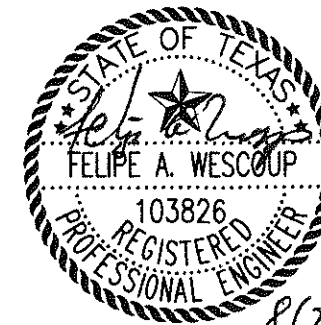
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LOW WATER CROSSING LWC1
NTS C3-34




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**PERIMETER ROAD
LOW WATER CROSSING**

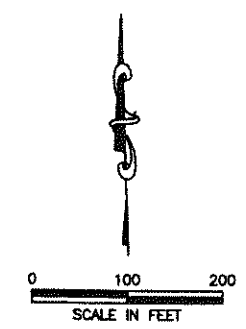
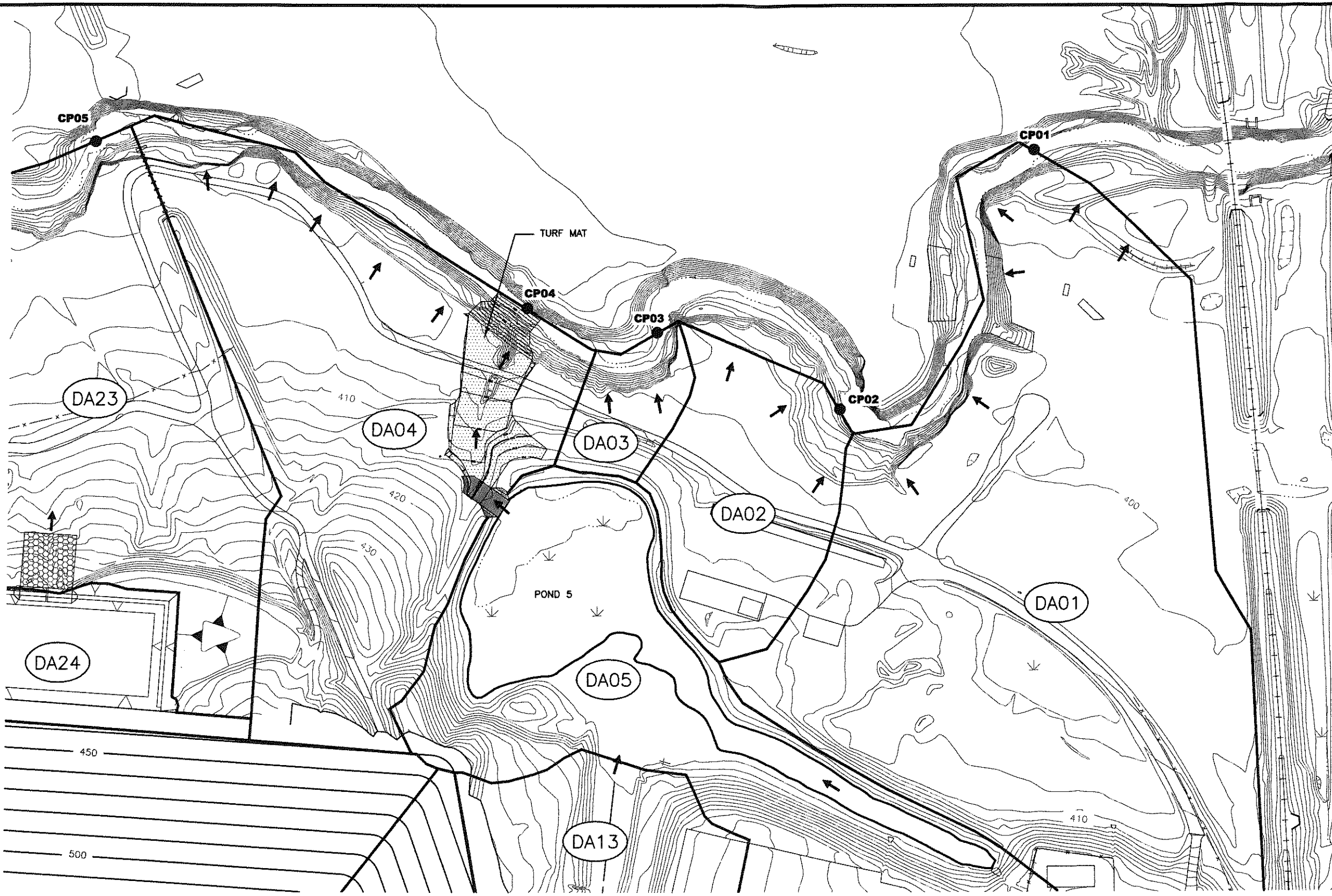
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LEGEND

- 400 EXISTING 2' GROUND CONTOUR
- 500 PROPOSED 10' FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. PERMIT BOUNDARY NOT SHOWN FOR CLARITY.



CP-1 THROUGH CP-4

**WASTE MANAGEMENT OF TEXAS, INC.
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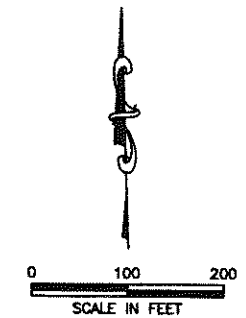
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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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LEGEND

- 420 EXISTING 2' GROUND CONTOUR
- 450 PROPOSED 10' FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. PERMIT BOUNDARY NOT SHOWN FOR CLARITY.



CP-5 THROUGH CP-7
WASTE MANAGEMENT OF TEXAS, INC.
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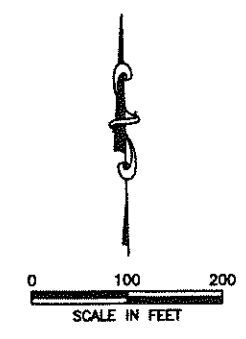


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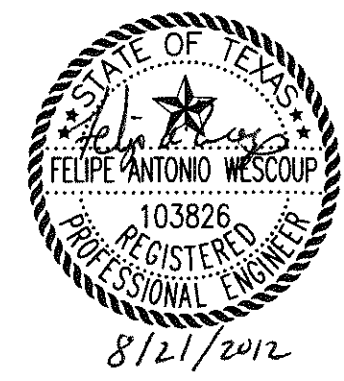


LEGEND

- 420 EXISTING 2' GROUND CONTOUR
- 500 PROPOSED 10' FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. PERMIT BOUNDARY NOT SHOWN FOR CLARITY.



CP-8 THROUGH CP-12

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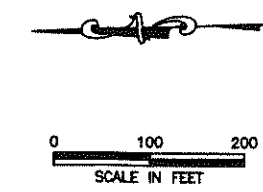
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LEGEND

- 460 EXISTING 2' GROUND CONTOUR
- 500 PROPOSED 10' FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION


NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. PERMIT BOUNDARY NOT SHOWN FOR CLARITY.



CP-13 THROUGH CP-16

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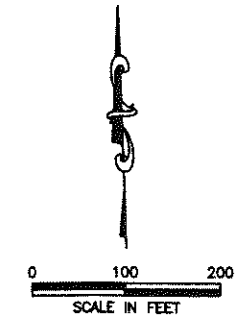
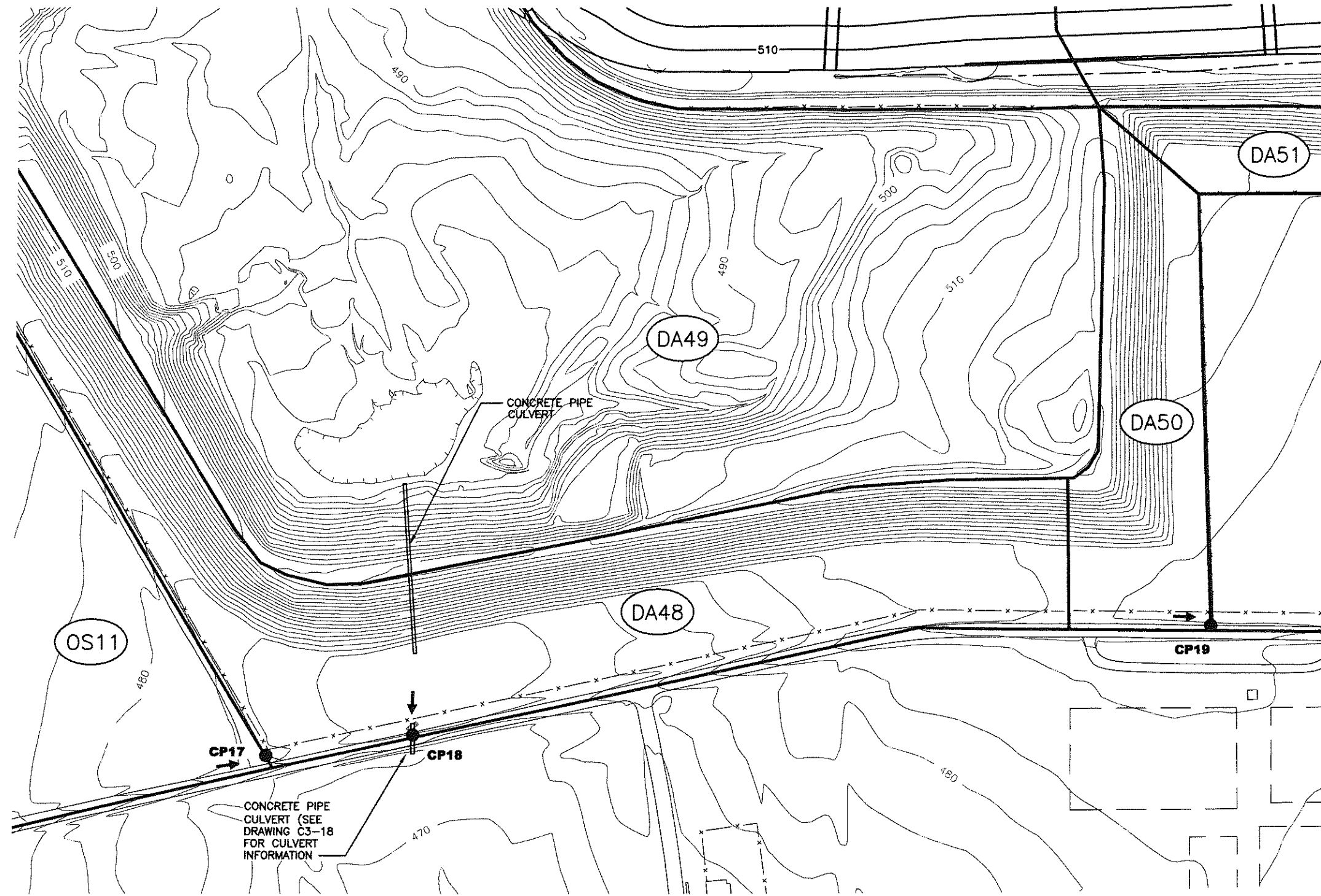
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REVISIONS					TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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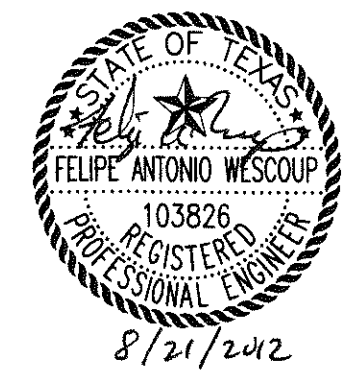


LEGEND

- 500 EXISTING 2' GROUND CONTOUR
- 510 PROPOSED 10' FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. PERMIT BOUNDARY NOT SHOWN FOR CLARITY.



CONCRETE PIPE CULVERT (SEE DRAWING C3-18 FOR CULVERT INFORMATION)

CP-17 THROUGH CP-19

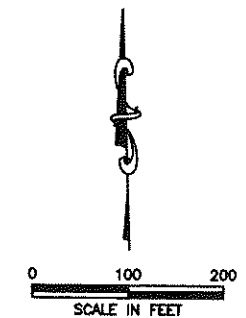
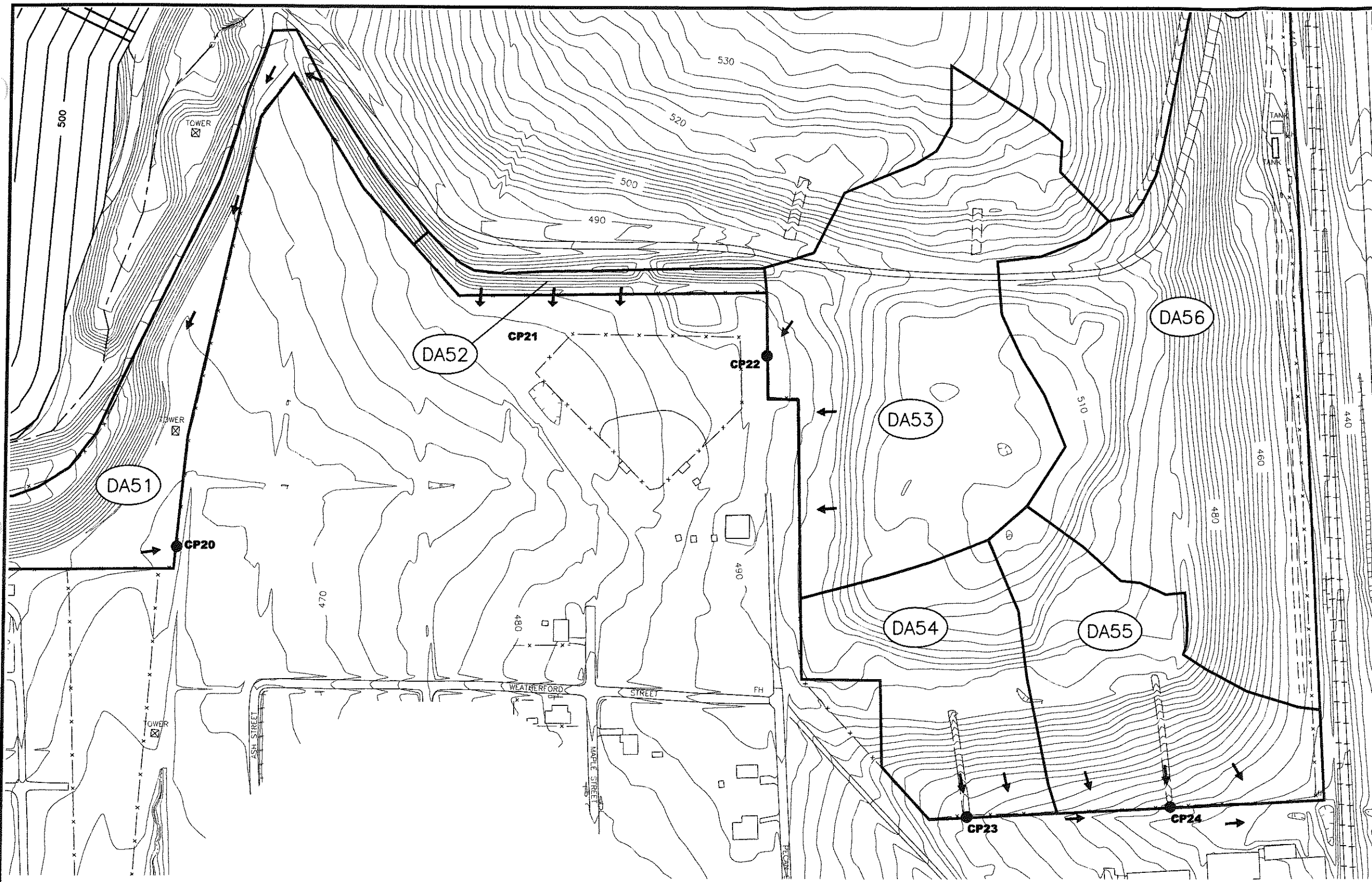
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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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							C3-39

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LEGEND

- 450 EXISTING 2' GROUND CONTOUR
- 500 PROPOSED 10' FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
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CP-20 THROUGH CP-24

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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	

DSN. FAW DATE : 08/12
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C3-40

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LEGEND

- 400 EXISTING 2' GROUND CONTOUR
- DRAINAGE LETDOWN
- COMPARISON POINT
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
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CP-25 THROUGH CP-27

**WASTE MANAGEMENT OF TEXAS, INC.
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REVISIONS							TSPE FIRM NO. F-256	TSBG FIRM NO. 50222	DRAWING
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN. FAW	DATE : 08/12	C3-41
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