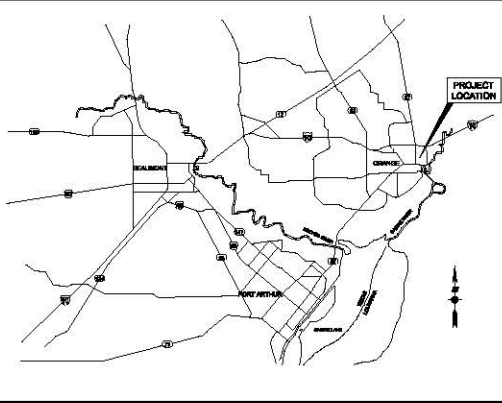
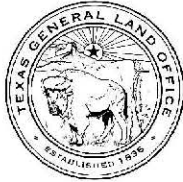




LOCATION MAP
N.T.S.



GRANT AWARD ID:
DRS220131

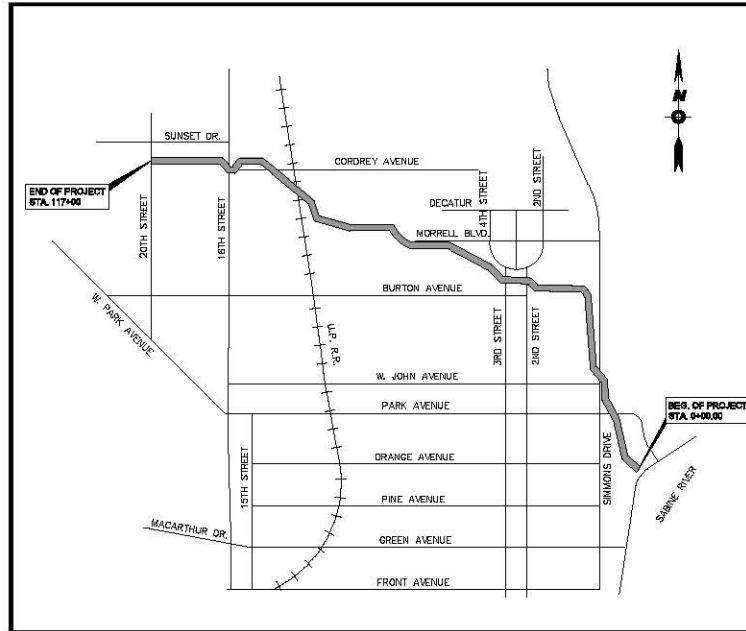
APPROVED FOR CONSTRUCTION

CITY OF ORANGE

BY: JIM B. WOLF, P.E.
DIRECTOR OF PUBLIC WORKS

DATE: _____

CONSTRUCTION PLANS FOR COOPERS GULLY CONCRETE LINING TO SERVE CITY OF ORANGE ORANGE COUNTY, TEXAS



VICINITY MAP
N.T.S.

JOB NO.: ORG-100

DATE: OCTOBER 2016

INDEX OF DRAWINGS

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2	LEGEND & CONSTRUCTION NOTES
3	LAYOUT SHEET
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5	PLAN & PROFILE STA. 5+00 - 10+00
6	PLAN & PROFILE STA. 10+00 - 15+00
7	PLAN & PROFILE STA. 15+00 - 20+00
8	PLAN & PROFILE STA. 20+00 - 25+00
9	PLAN & PROFILE STA. 25+00 - 30+00
10	PLAN & PROFILE STA. 30+00 - 35+00
11	PLAN & PROFILE STA. 35+00 - 40+00
12	PLAN & PROFILE STA. 40+00 - 45+00
13	PLAN & PROFILE STA. 45+00 - 50+00
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15	PLAN & PROFILE STA. 55+00 - 60+00
16	PLAN & PROFILE STA. 60+00 - 65+00
17	PLAN & PROFILE STA. 65+00 - 70+00
18	PLAN & PROFILE STA. 70+00 - 75+00
19	PLAN & PROFILE STA. 75+00 - 80+00
20	PLAN & PROFILE STA. 80+00 - 85+00
21	PLAN & PROFILE STA. 85+00 - 90+00
22	PLAN & PROFILE STA. 90+00 - 95+00
23	PLAN & PROFILE STA. 95+00 - 100+00
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43	CUT / FILL SECTIONS STA. 89+00 - 94+40
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45	CUT / FILL SECTIONS STA. 102+15 - 110+00
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48	CONSTRUCTION DETAILS SHEET 1
49	CONSTRUCTION DETAILS SHEET 2
50	DRAINAGE AREAS
51	RIPARIAN BUFFER - 1
52	RIPARIAN BUFFER - 2

100% SUBMITTAL - NOT FOR CONSTRUCTION

Engineering
P-16194



2901 Turtle Creek Drive, Suite 320
Port Arthur, TX 77642

Surveying
10194049

THIS DOCUMENT IS FOR
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NOT INTENDED FOR
CONSTRUCTION, RECORDING
OR PERMIT PURPOSES

JOE N. WILSON, JR.
P.E. 92067

MARCH 27, 2017

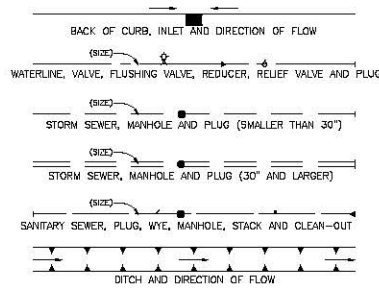
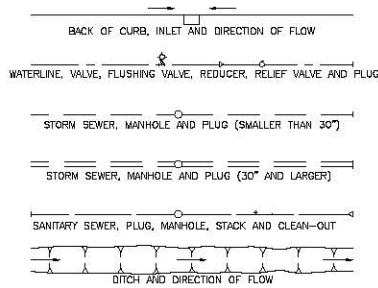
409 724 7686
arceneaux.com

PLAN LEGEND

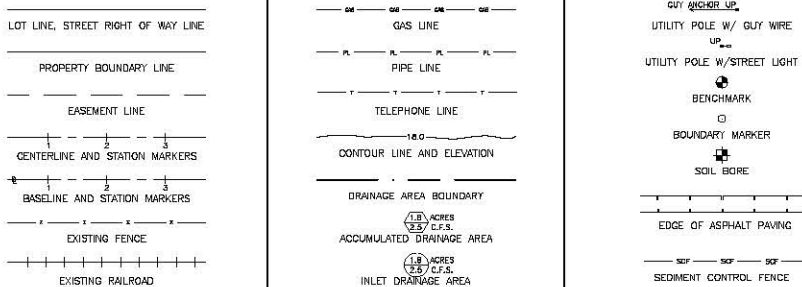
PLAN

EXISTING

PROPOSED



MISCELLANEOUS PLAN



LIST OF ABBREVIATIONS

AC	ACRE	DR	DRIVE	HWY	HIGHWAY	REQ'D	REQUIRED
B/B	BACK TO BACK	D.I.P.	DUCTILE IRON PIPE	I.P.U.R.	IRON PIPE, IRON ROD	RT	RIGHT (X-SECTION NOTES)
BL	BASE LINE	ESMT	EASEMENT	LT	LEFT (X-SECTION NOTES)	ROW	RIGHT-OF-WAY
BM	BENCH MARK	EB	ELECTRICAL BOX	MH	MANHOLE	SPEC'D	SPECIFIED
B.L.	BUILDING LINE	EL	ELEVATION	MAX	MAXIMUM	SF	SQUARE FEET, FOOT
B.V.	BUTTERFLY VALVE	ER	END RETURN	M.S.L.	MEAN SEA LEVEL	SS	STAINLESS STEEL
C.I.	CAST IRON	EQ SPA, ES	EQUALLY SPACED	MIN	MINIMUM	STA	STATION
C/C	CENTER TO CENTER	EXIST	EXISTING	MON.	MONUMENT	STL	STEEL
C	CENTERLINE	F.B.	FIELDBOOK	NTS	NOT TO SCALE	ST.	STREET
CONC	CONCRETE	F.G.	FINISHED GRADE	NO.	NUMBER	TBM	TEMPORARY BENCH MARK
CONC MON	CONCRETE MONUMENT	F.H.	FIRE HYDRANT	O.C.E.W.	ON CENTER EACH WAY	TC	TOP OF CURB
C.J.	CONSTRUCTION JOINT	F.S.	FIRE SPRINKLER	P.V.M.T	PAVEMENT	TP	TOP OF PAVEMENT
C.P.P.	CORRUGATED PLASTIC PIPE	FT	FOOT, FEET	P.V.C.	POLYVINYL CHLORIDE	TYP	TYPICAL
X-SECT	CROSS-SECTION	PROP	PROPOSED	RCB	REINFORCED CONCRETE BOX	UP	UTILITY POLE
C.Y.	CUBIC YARD	FND	FOUND	RCB	REINFORCED CONCRETE BOX	VPI	VERTICAL POINT OF INFLECTION
DIA	DIAMETER	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE	WM	WATER METER

GENERAL CONSTRUCTION NOTES

- ALL ELEVATIONS SHOWN ARE M.S.L. DATUM PLUS 100 FEET.
- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES.
- EXCESS SPILL FROM CONSTRUCTION, WHICH CANNOT BE USED FOR FINAL SITE GRADING, SHALL BE DISPOSED OFFSITE BY CONTRACTOR AT NO ADDITIONAL FEE.
- CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION IN AREA OF POSSIBLE UNDERGROUND UTILITIES WHICH MAY NOT BE SHOWN ON DRAWING.
- CONTOURS SHOWN INDICATE EXISTING NATURAL GROUND PRIOR TO CLEARING AND GRUBBING. TO CONTROL, SEDIMENT AND STORM WATER POLLUTION, CONTRACTOR SHALL NOT REMOVE MORE CONCRETE LAYER THAN CAN BE REPLACED WITHIN THE SAME WORK WEEK.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH EXISTING FACILITIES IN AREA OF CONSTRUCTION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION IN THAT AREA. THE FOLLOWING IS A PARTIAL LIST OF CONTACTS:

CONCRETE NOTES

- THE CITY TESTING LAB WILL SAMPLE ALL CONCRETE, MAKE AND TEST ALL BEAMS AND COLUMNS IN ACCORDANCE WITH THE TEST METHODS PROVIDED FOR UNDER THE APPROPRIATE STANDARD SPECIFICATIONS FOR THE VARIOUS ITEMS.
- REINFORCING STEEL TO BE PLACED 1/3 FROM BOTTOM OF SLAB AND SUPPORTED ON CHAIRS WHICH WILL ADEQUATELY SUPPORT IT DURING CONSTRUCTION.
- ALL DOWELS USED FOR EXPANSION JOINTS AND CONSTRUCTION JOINTS MUST BE SUPPORTED ADEQUATELY SO THAT THEIR POSITION WILL BE MAINTAINED DURING CONSTRUCTION.

ENTER GAS

MR. KENNETH ROACH
409-963-7125

ENTER CITY

MR. JOHNNY TRAHAN
409-882-2054

SOUTHWESTERN BELL

MR. ROGER FRIDGE
409-838-8965

TIME WARNER COMMUNICATIONS

MR. HERCEL STRAGERER
409-720-2001

CITY OF ORANGE
PUBLIC WORKS

MR. J.B. WOLF, PE
409-888-7335

ORANGE COUNTY DRAINAGE DISTRICT

MR. XXXXXXXXXXXX
408-XXXX-XXXX

TEXAS DEPARTMENT
OF TRANSPORTATION

MR. DUANE BROWNING, PE
409-722-8377

TEXAS ONE CALL SYSTEM

1-800-245-4545

DIG-TESS

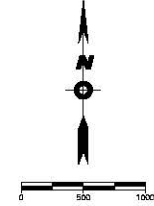
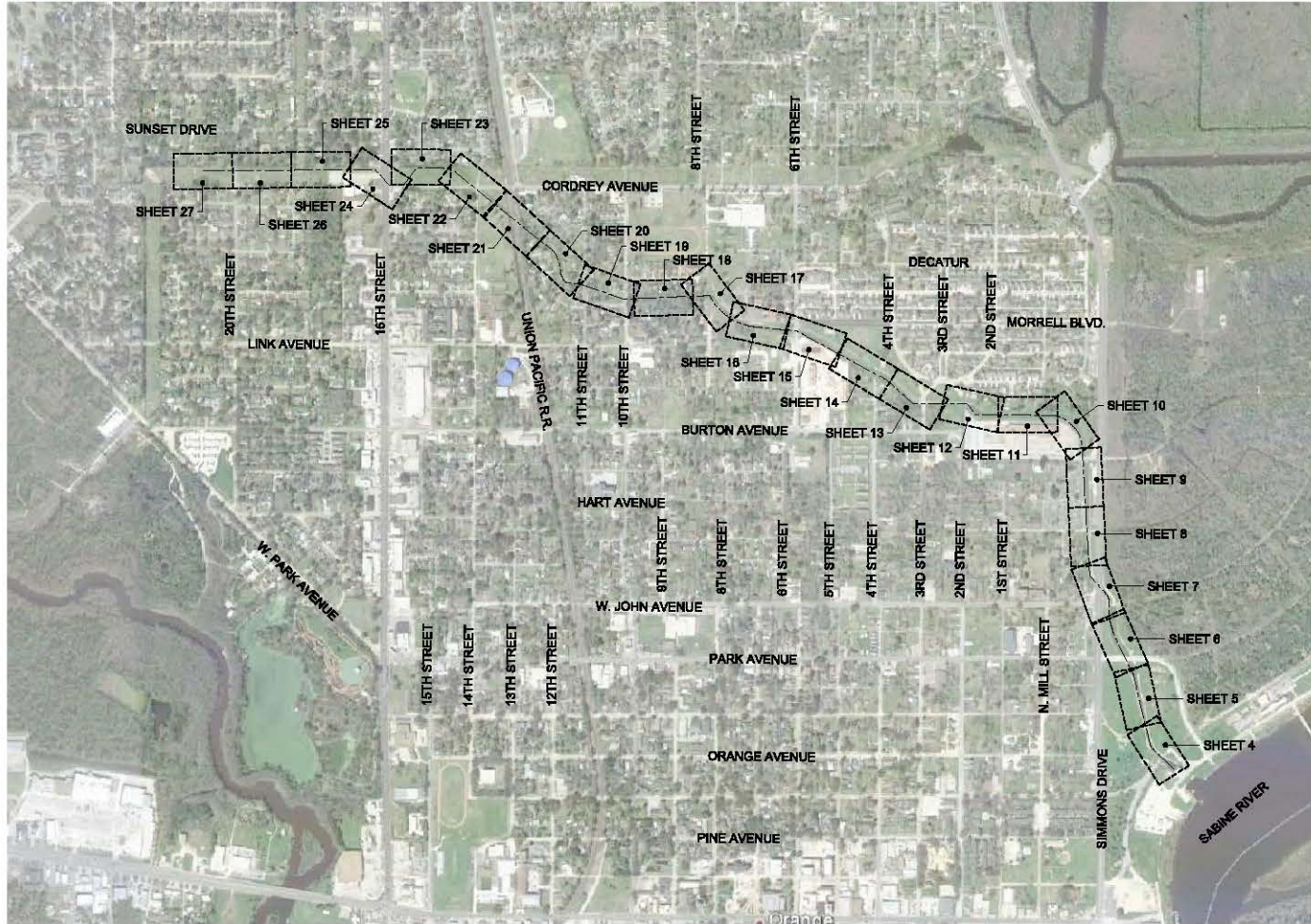
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AIR/QUIQUE

CURTIS BYRD
337-583-7699

PIPE CONNECTION TABLE 2-1

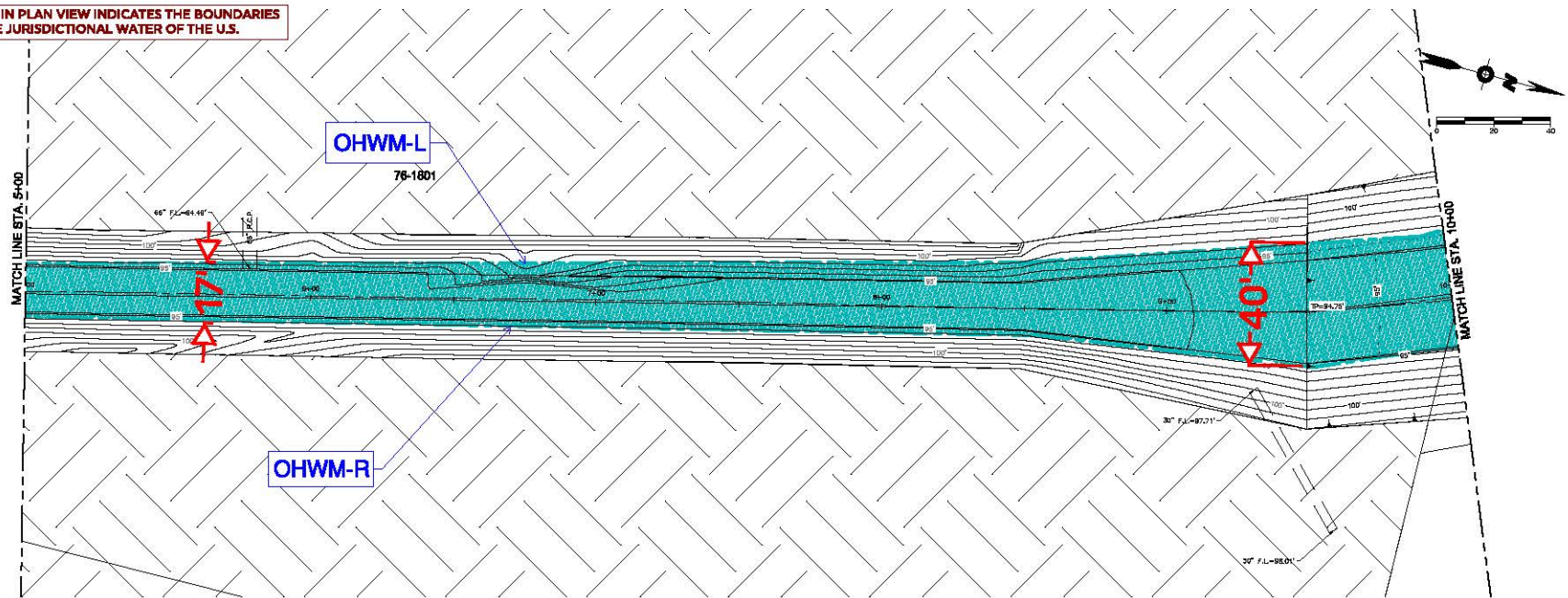
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2- TO MAINLINE TO EXISTING
3- TO MAINLINE TO EXISTING
4- NEW PIPE
5- TO MAINLINE TO EXISTING



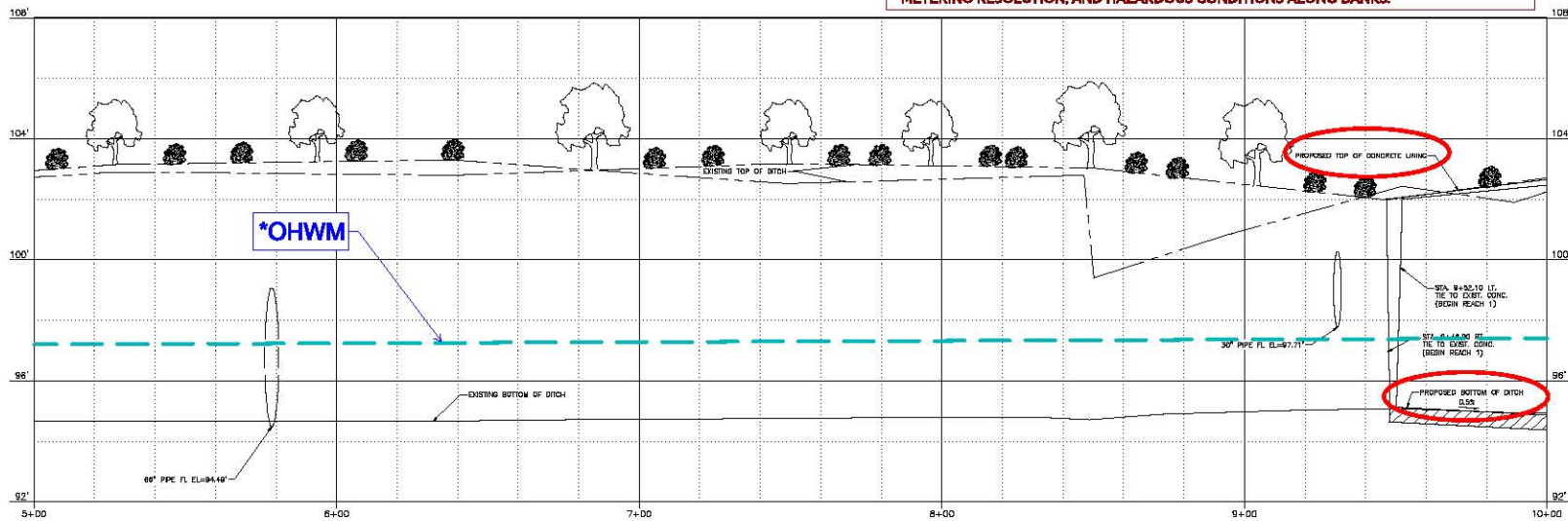
 AWC Associated General Contractors of America 1111 North Glebe Road, Suite 200 Arlington, VA 22202-4199 Phone: 703/968-7800 Fax: 703/968-7801 Email: info@agc.org		THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92087 MARCH 27, 2017		COOPERS GULLY CONCRETE LINING CITY OF ORANGE LAYOUT Orange County, Texas		SHEET 3 OF ##
DESIGNED BY	DATE	SCALE	PROJECT NO.	APPENDIX	DATE	BY
CHOKESBY, INC.	10/20/12	AS SHOWN	12-000000-000			



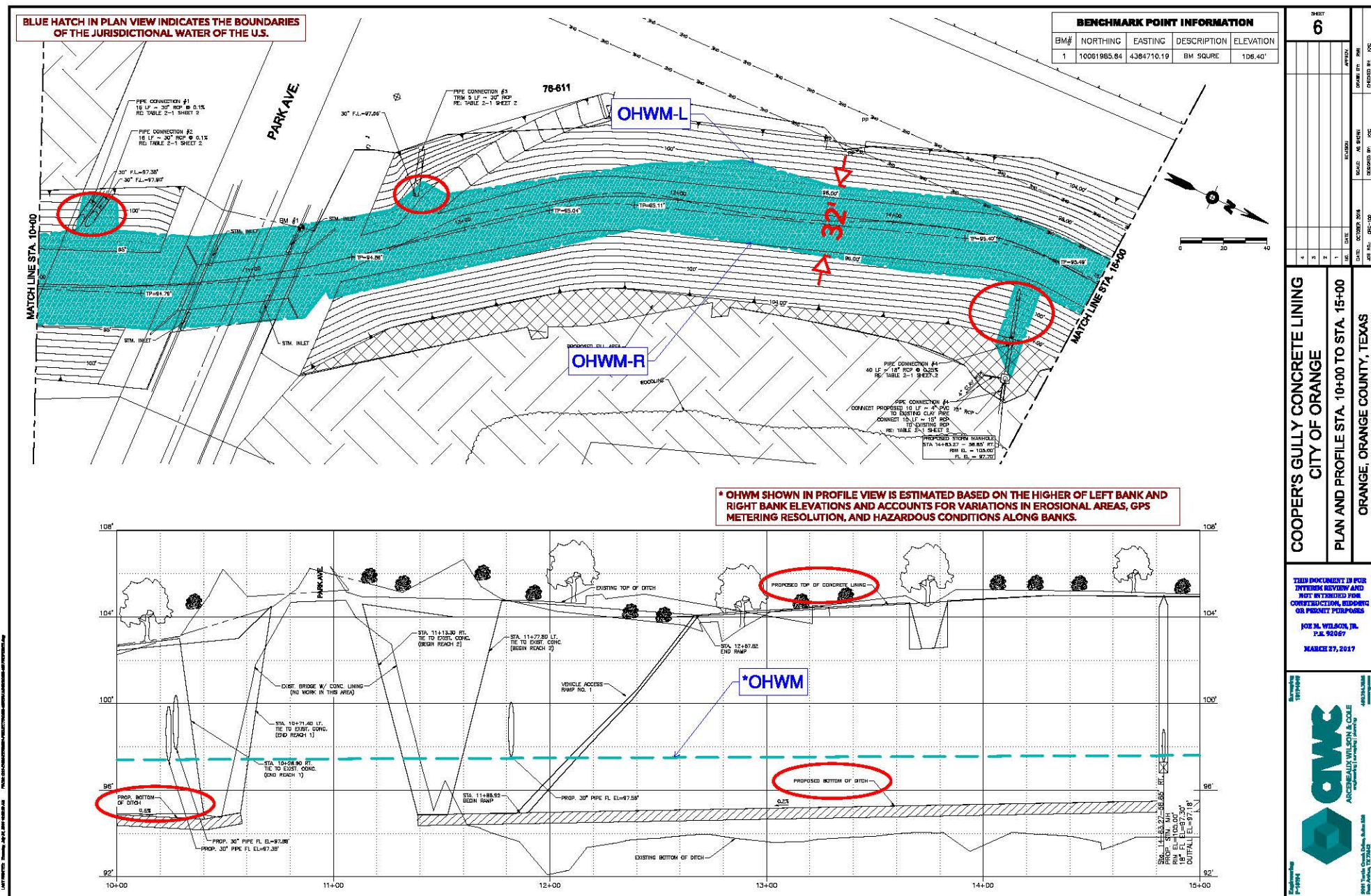
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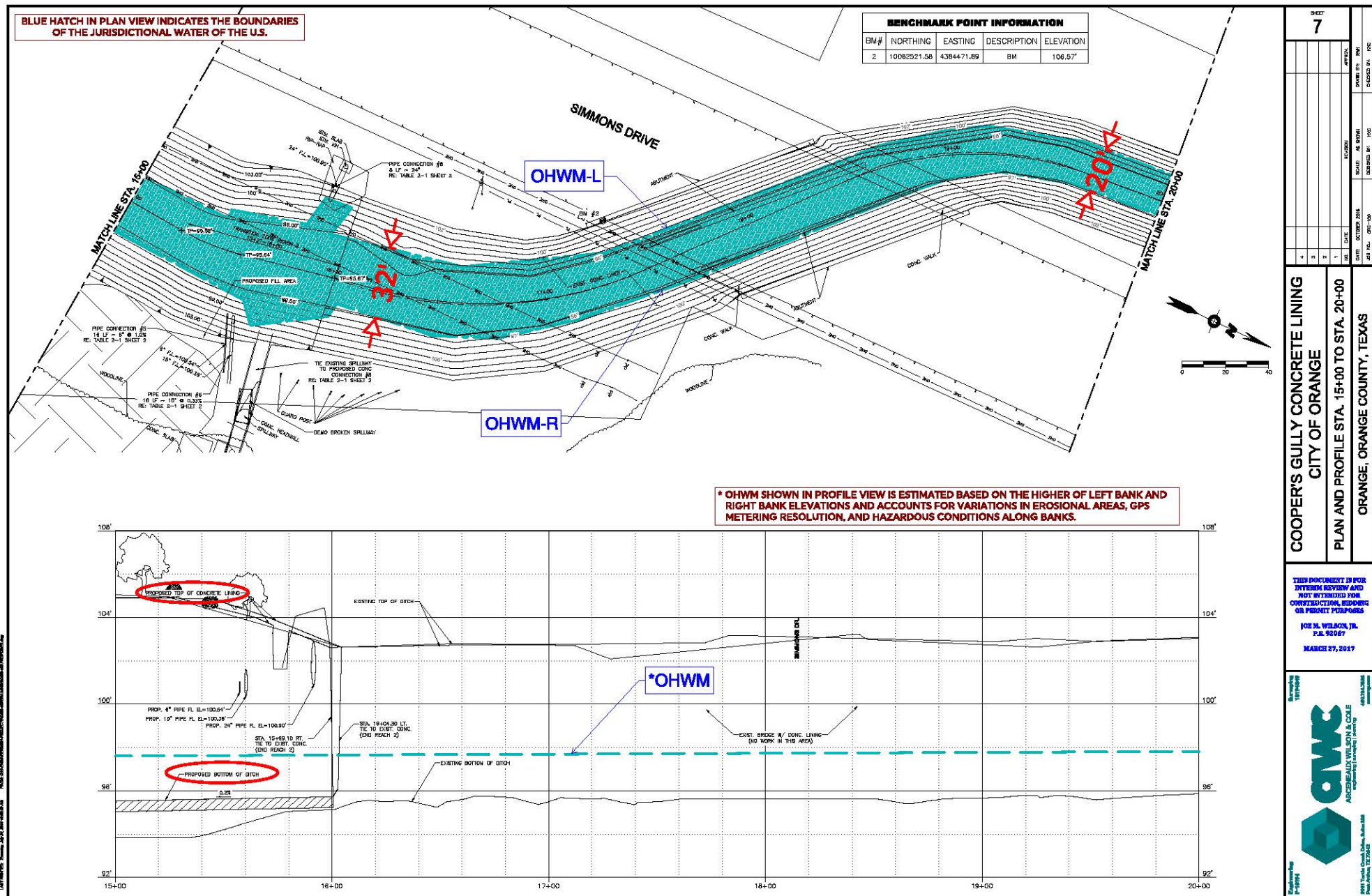


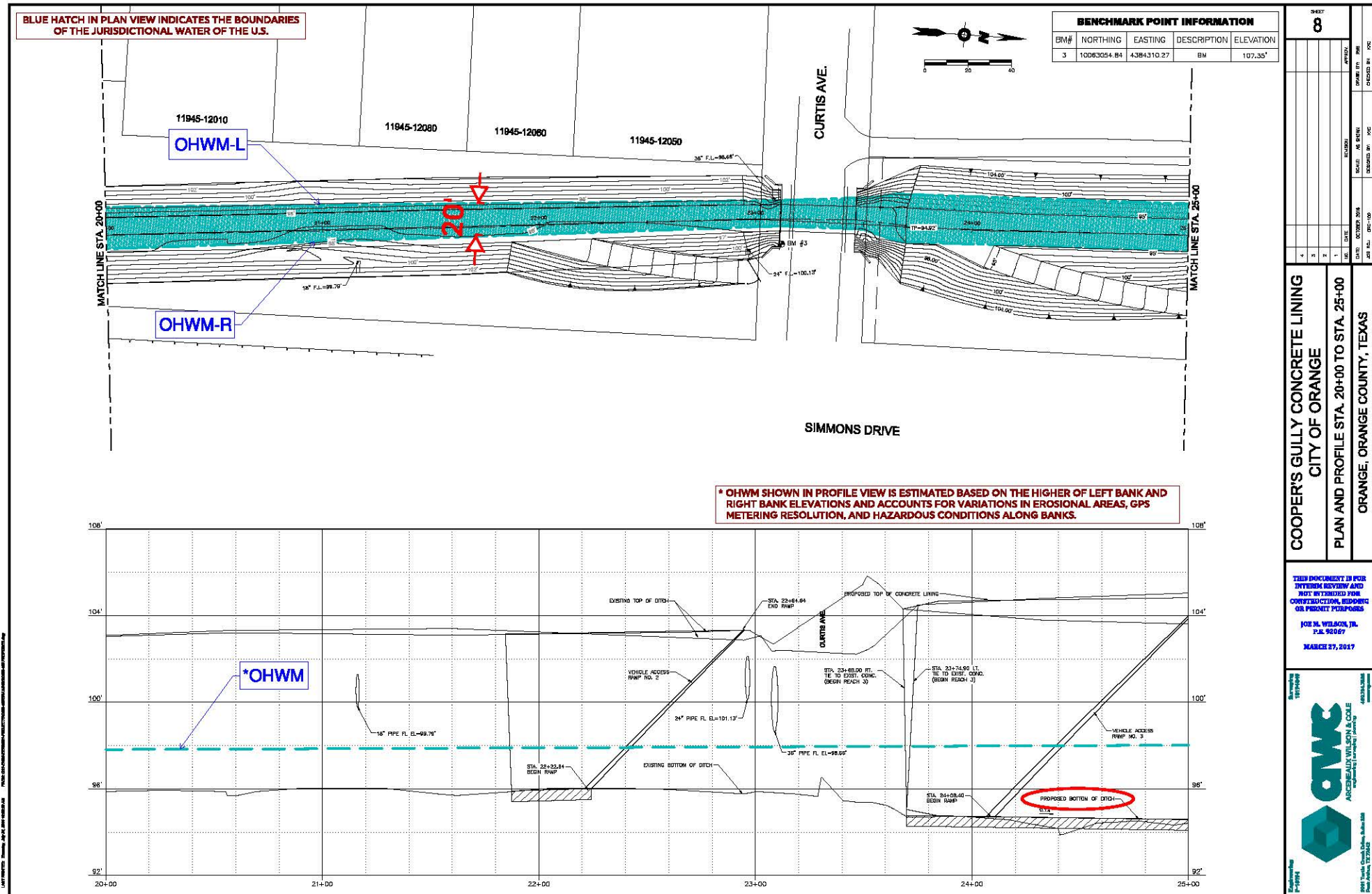
* OHWM SHOWN IN PROFILE VIEW IS ESTIMATED BASED ON THE HIGHER OF LEFT BANK AND RIGHT BANK ELEVATIONS AND ACCOUNTS FOR VARIATIONS IN EROSIONAL AREAS, GPS METERING RESOLUTION, AND HAZARDOUS CONDITIONS ALONG BANKS.



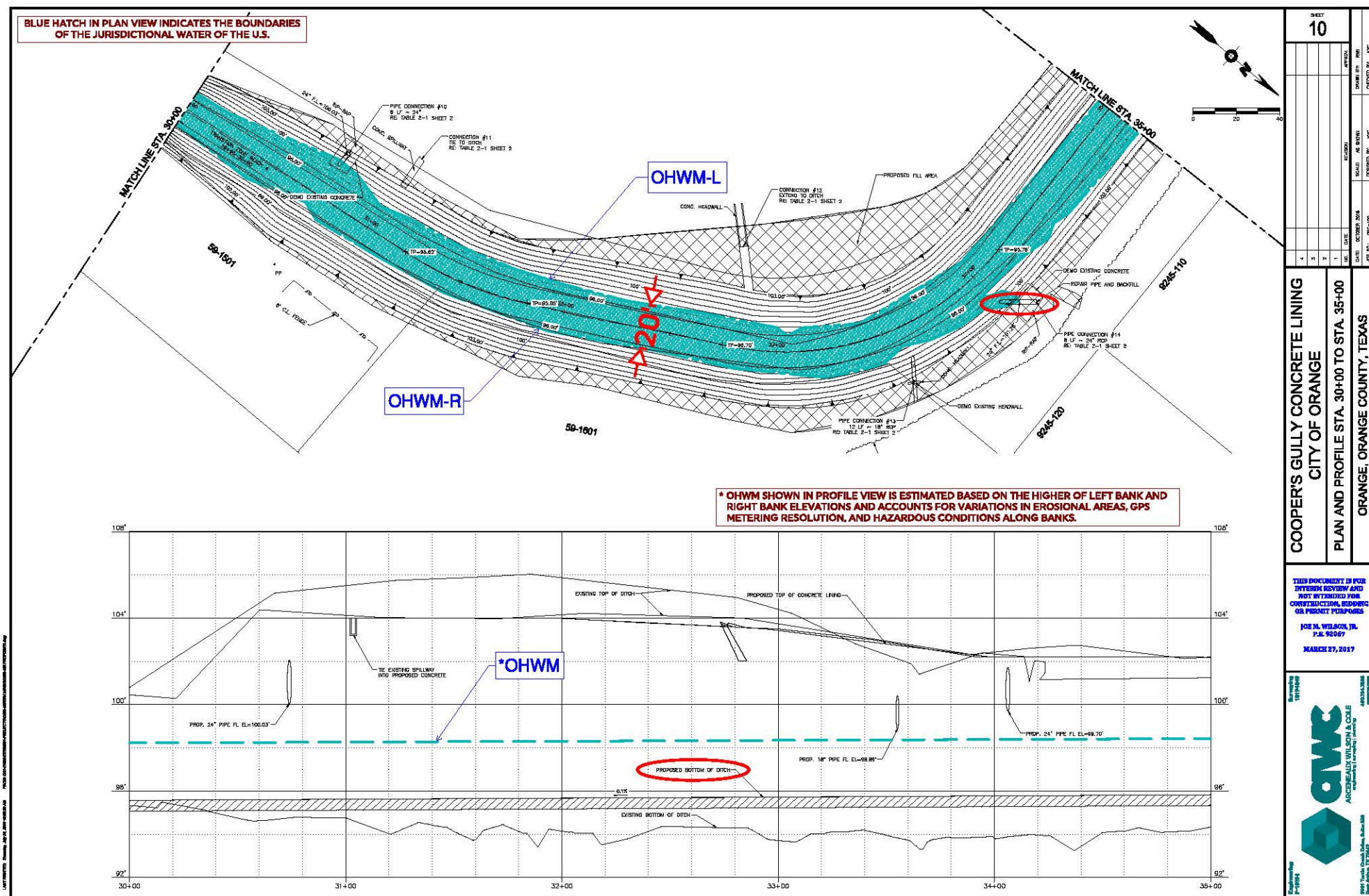
SHEET 5	
DATE: 03/27/2017	DESIGNED BY: JWC
CHECKED BY: JWC	APPROVED BY: JWC
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE PLAN AND PROFILE STA. 5+00 TO STA. 10+00 ORANGE, ORANGE COUNTY, TEXAS	
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017	
 CWC CONCRETE WATER CONSTRUCTION 10000 S. 100th E. Suite 100 Tulsa, Oklahoma 74134 (918) 438-1000 www.cwc-tulsa.com	

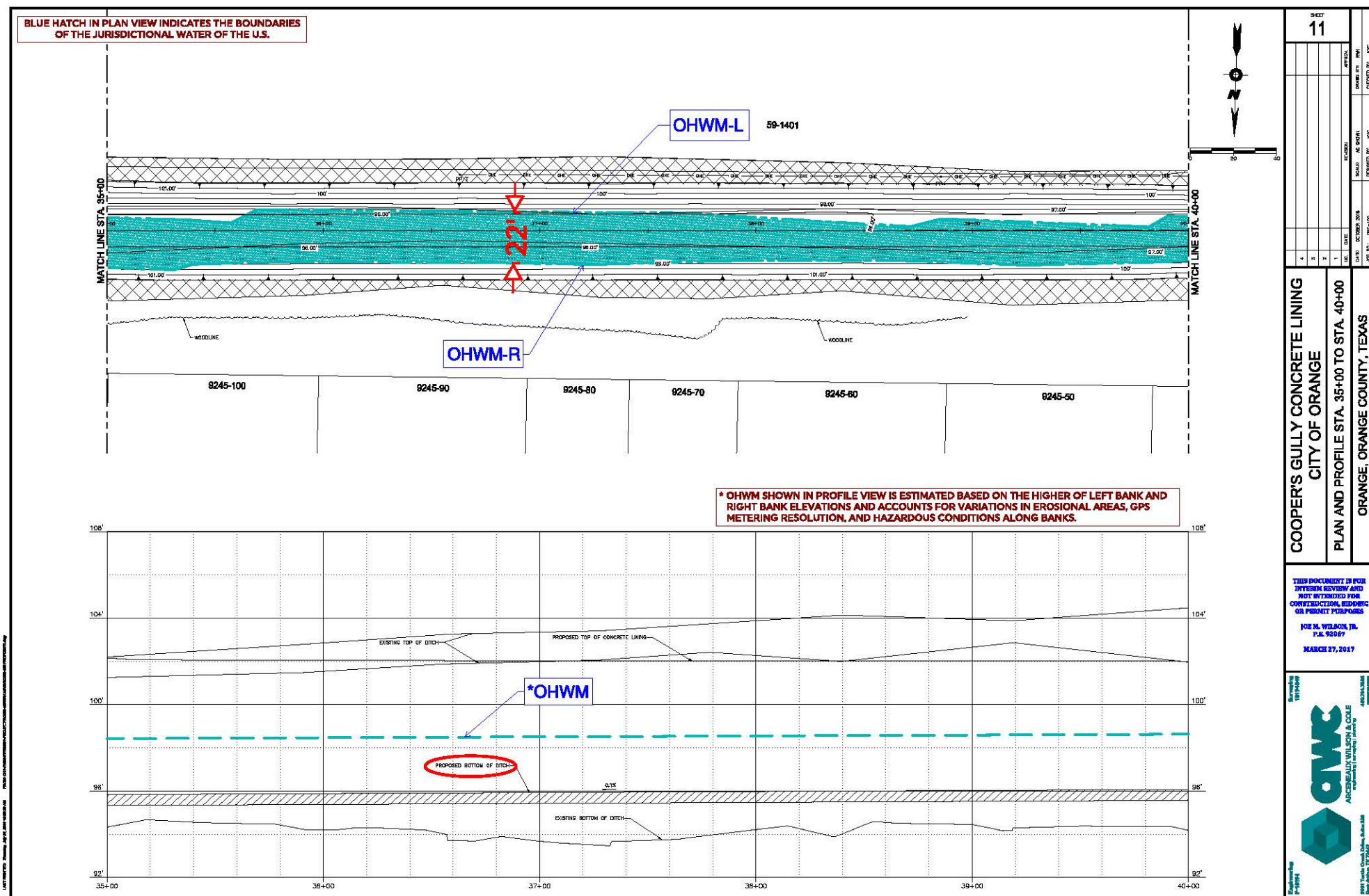


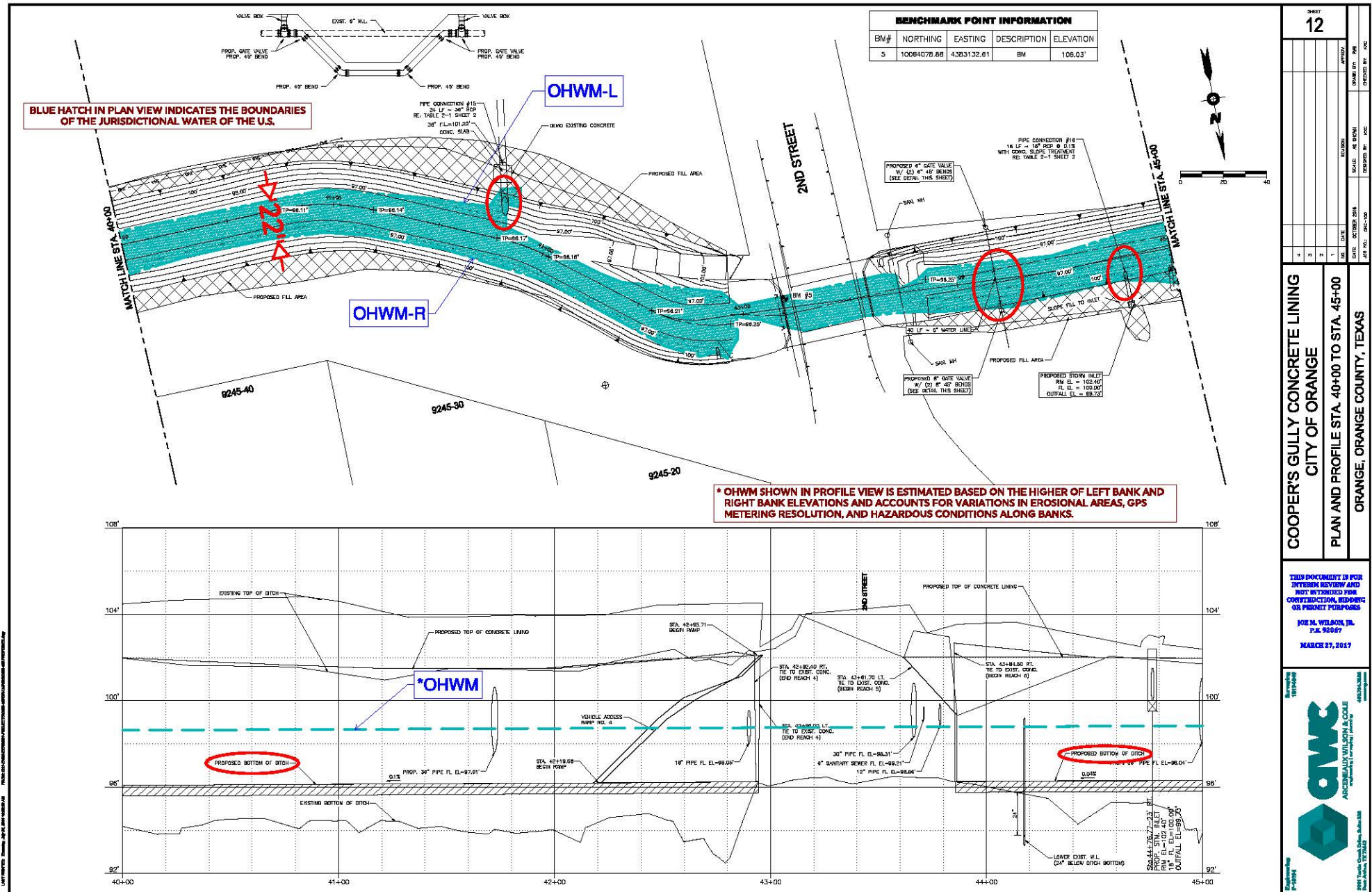


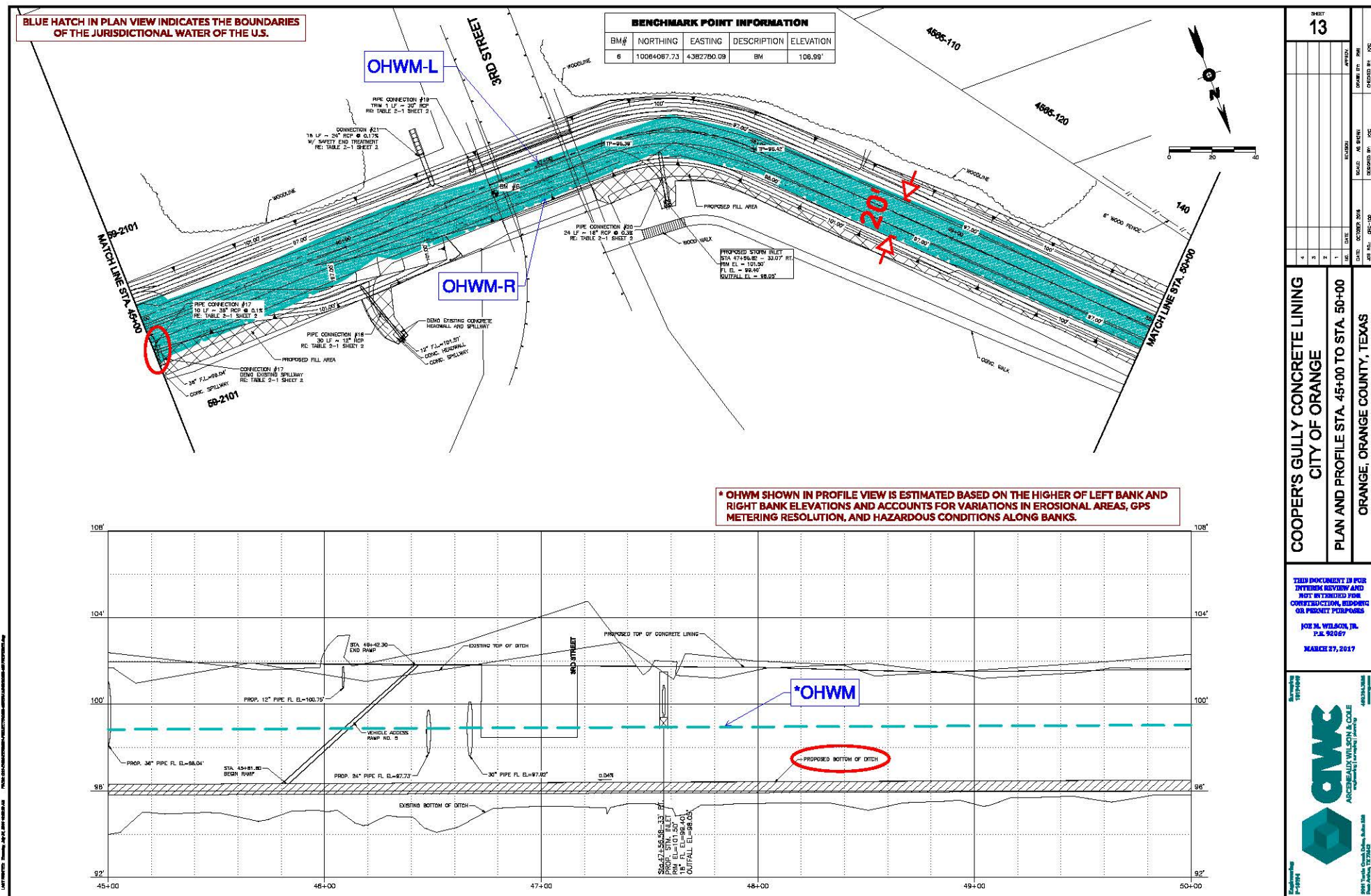


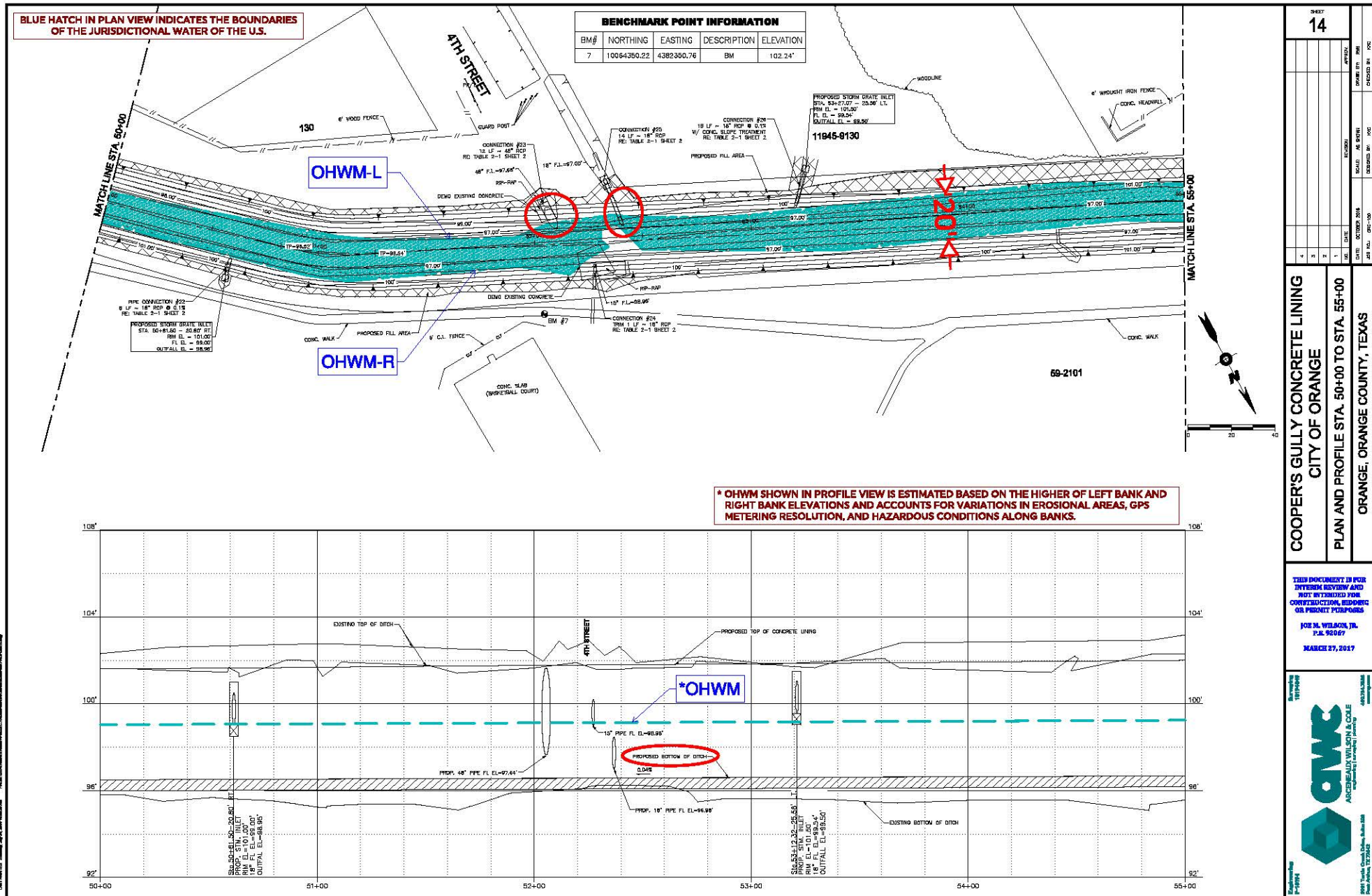


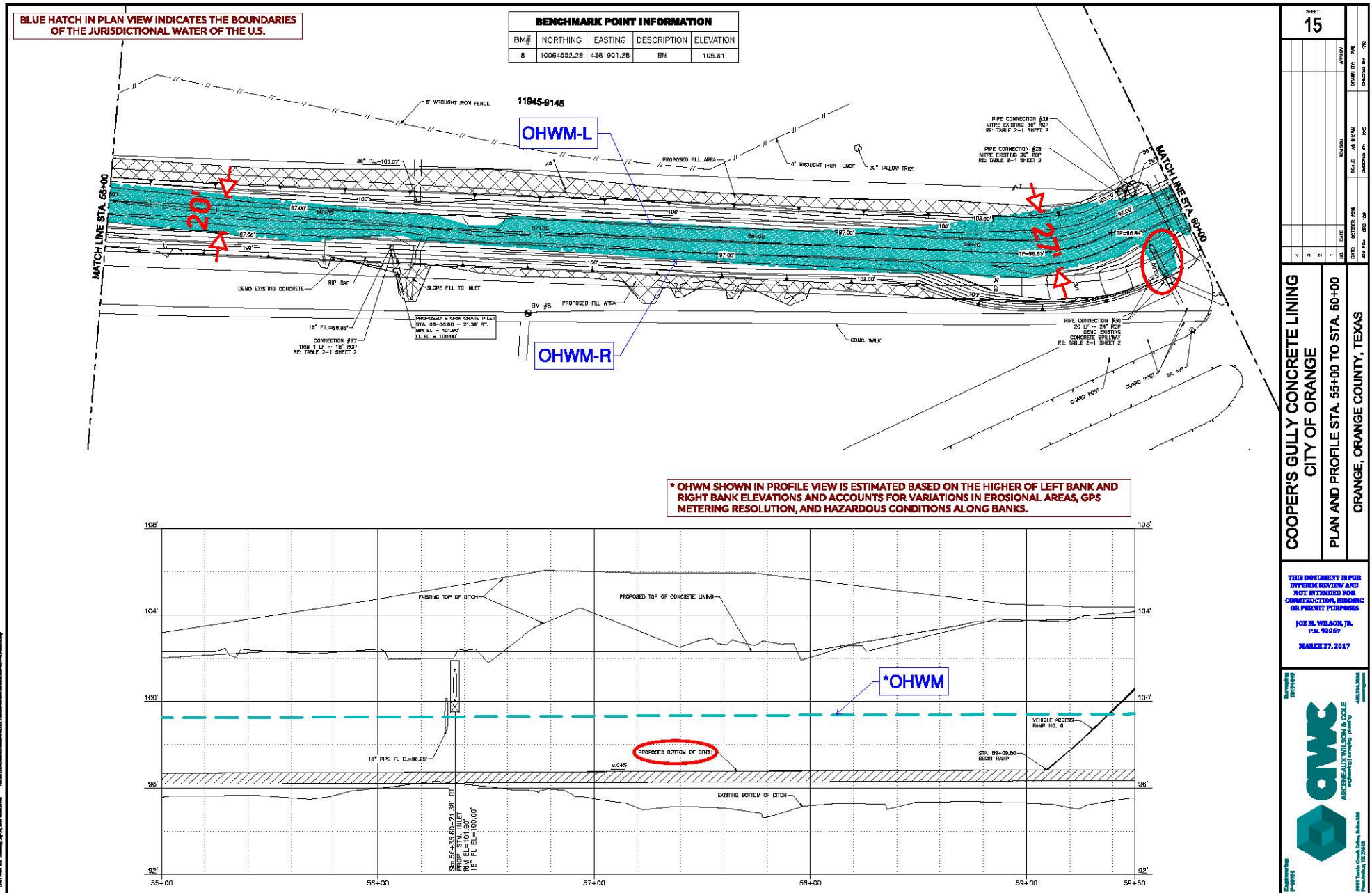


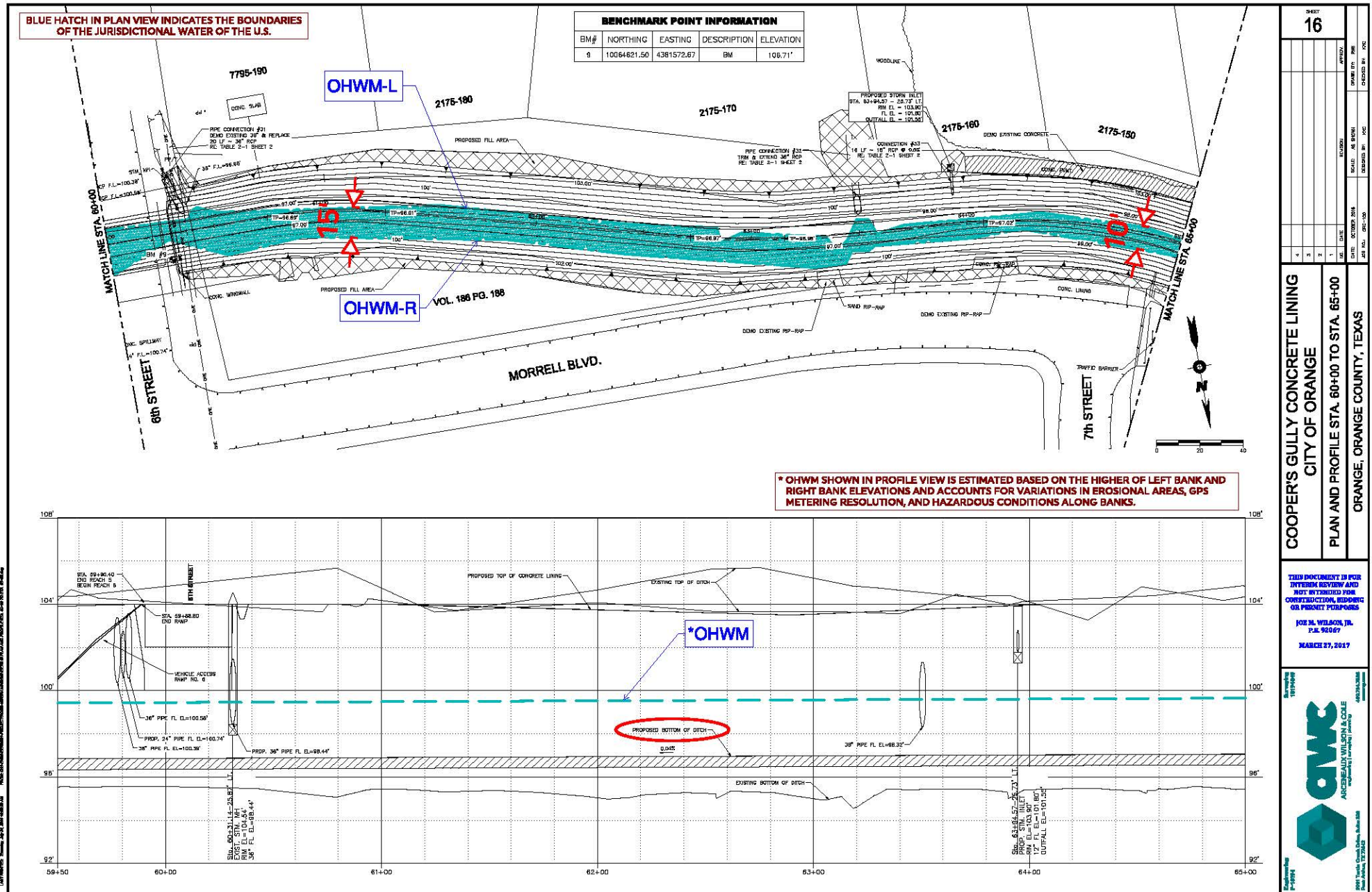


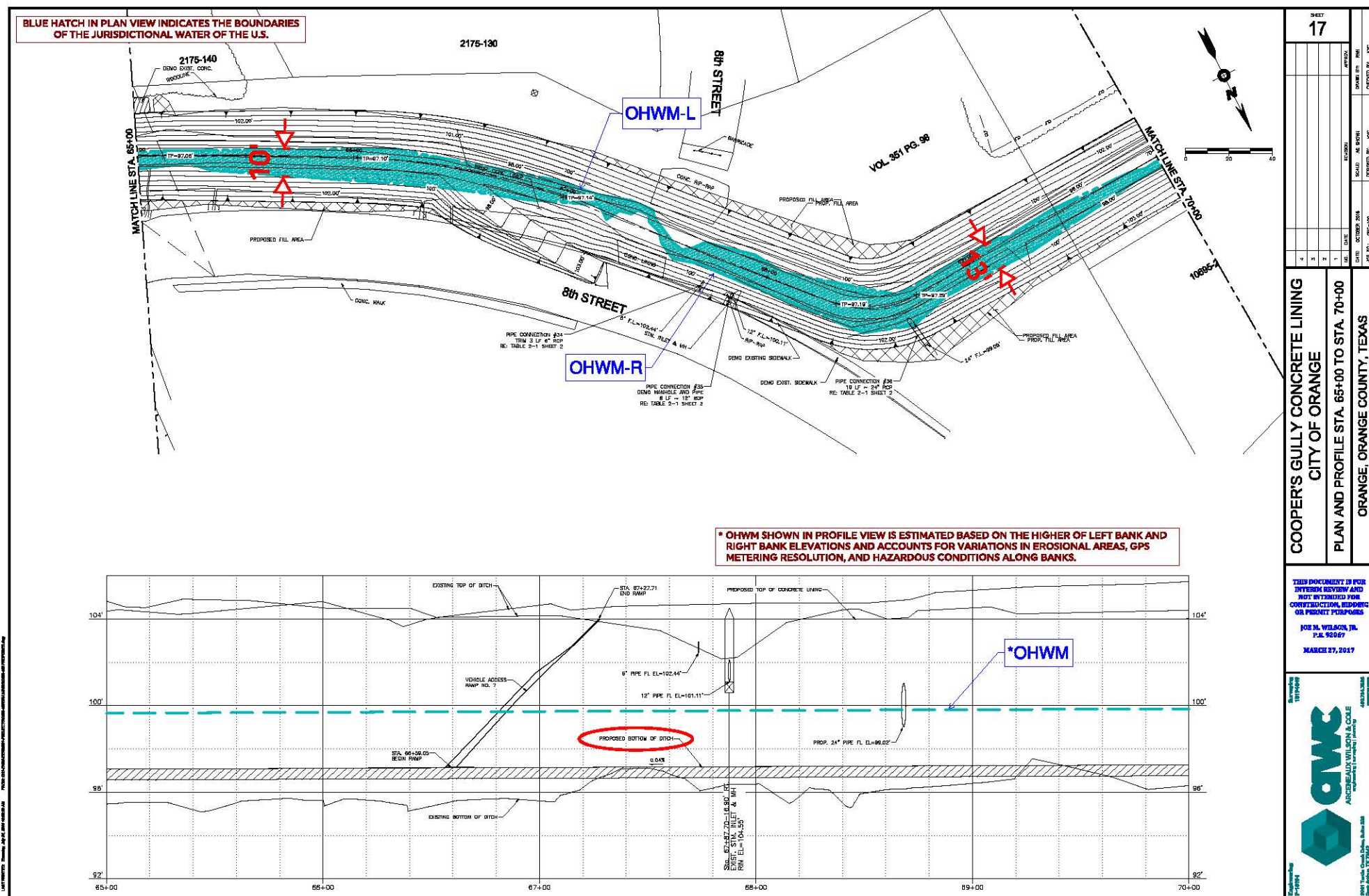


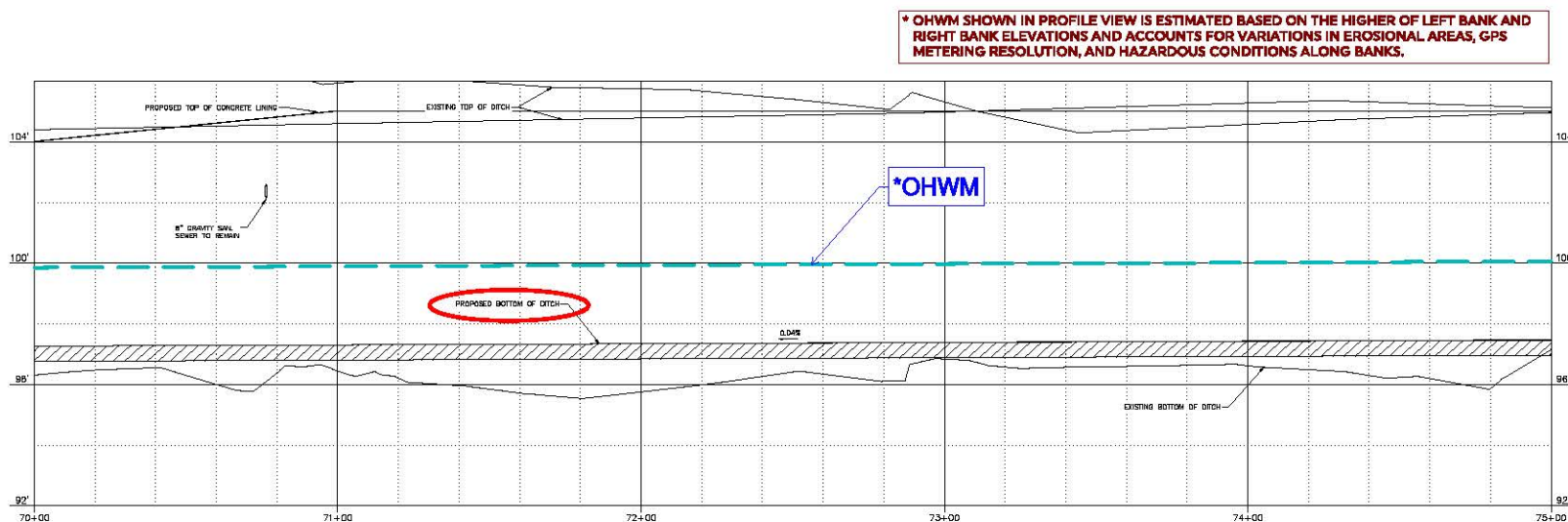
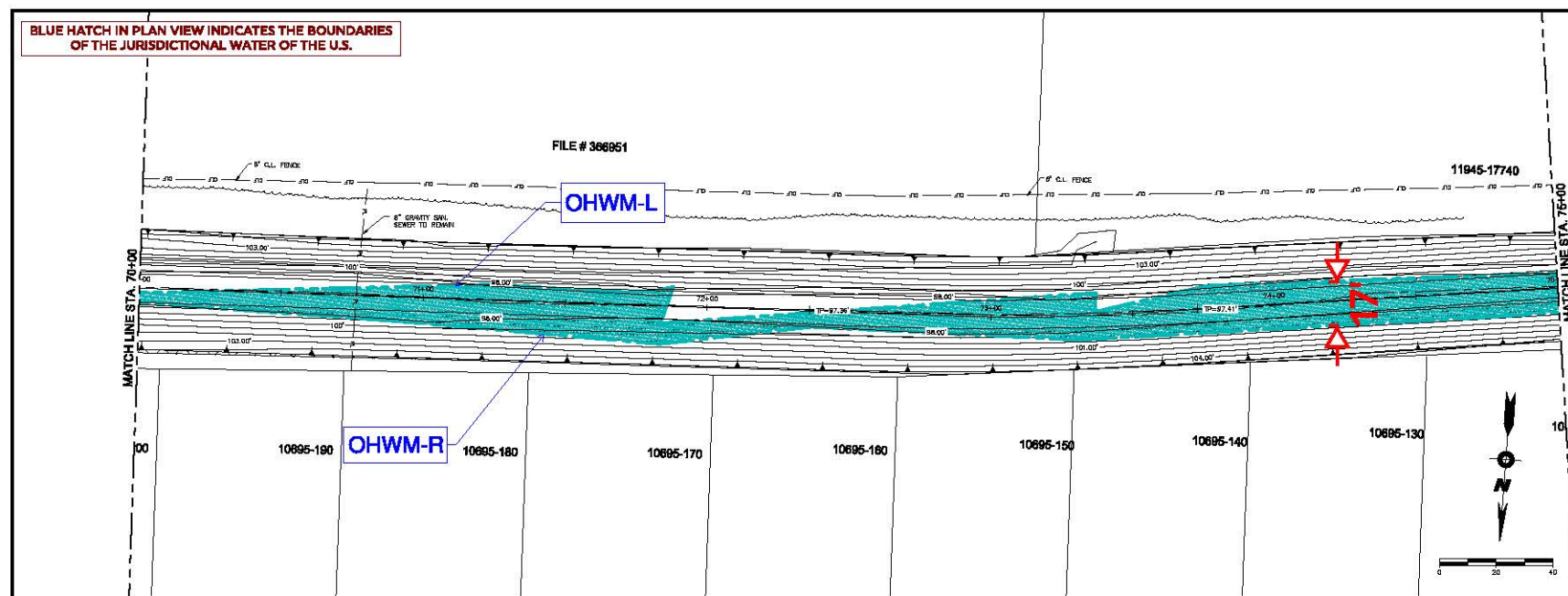




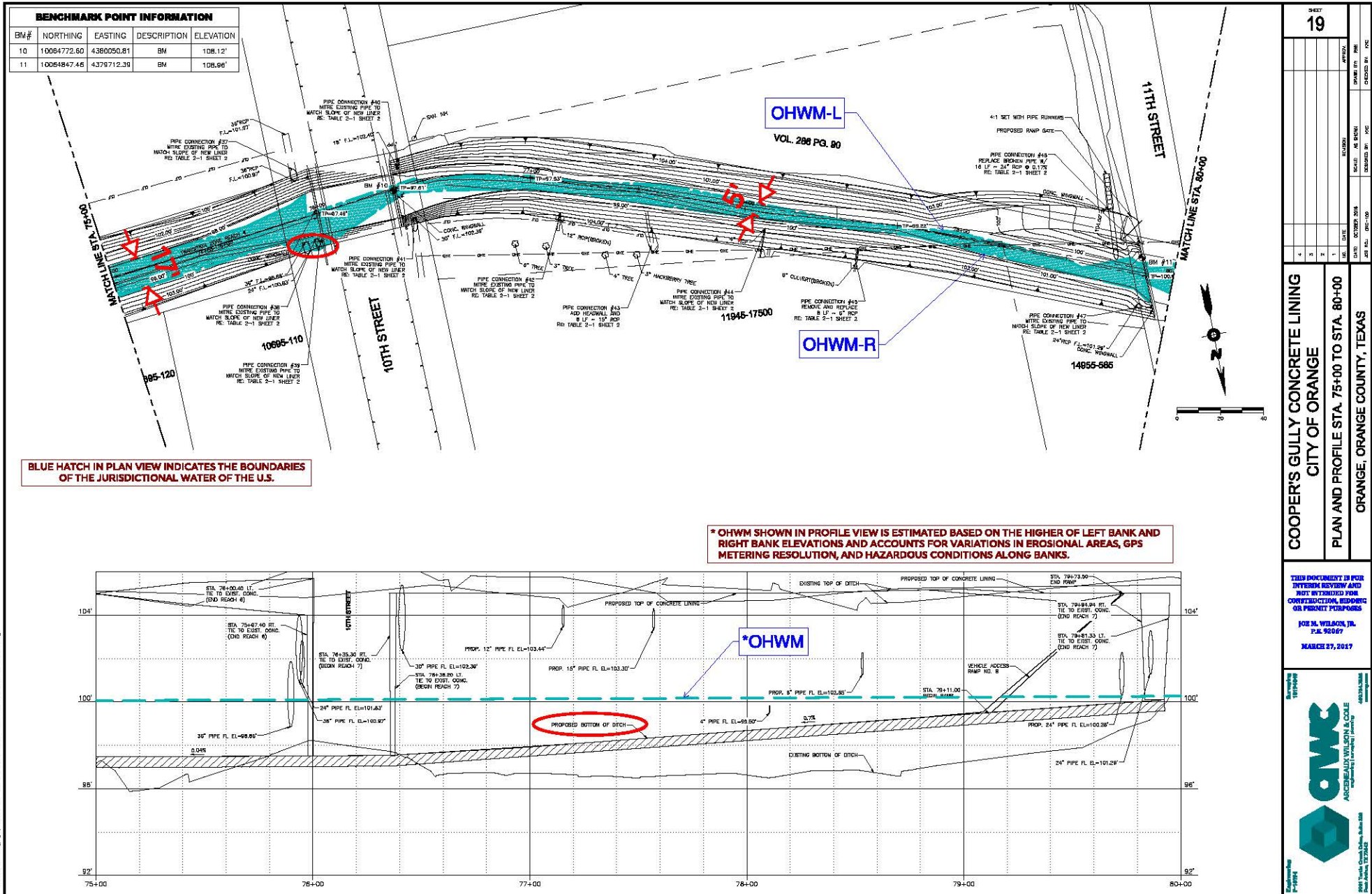








 CWC ARCEREAUX WILSON & COLE Engineering • Surveying • Planning 405.243.3266	THIS DOCUMENT IS FOR INTERVAL REVIEW AND NOT INTENDED FOR CONSTRUCTION, REPAIRS OR PRELIM PURPOSES		JOE M. WILSON, JR. P.E. 92067		MARCH 27, 2017		Revised/Issued 10/10/2016	
	COOPER'S GULLY CONCRETE LINING CITY OF ORANGE		PLAN AND PROFILE STA. 70+00 TO STA. 75+00		ORANGE, ORANGE COUNTY, TEXAS		Scale: 1" = 40'	
	DATE: OCTOBER 2016		SCALE: AS SHOWN		DATE: 03/27/2017		DATE: 03/27/2017	
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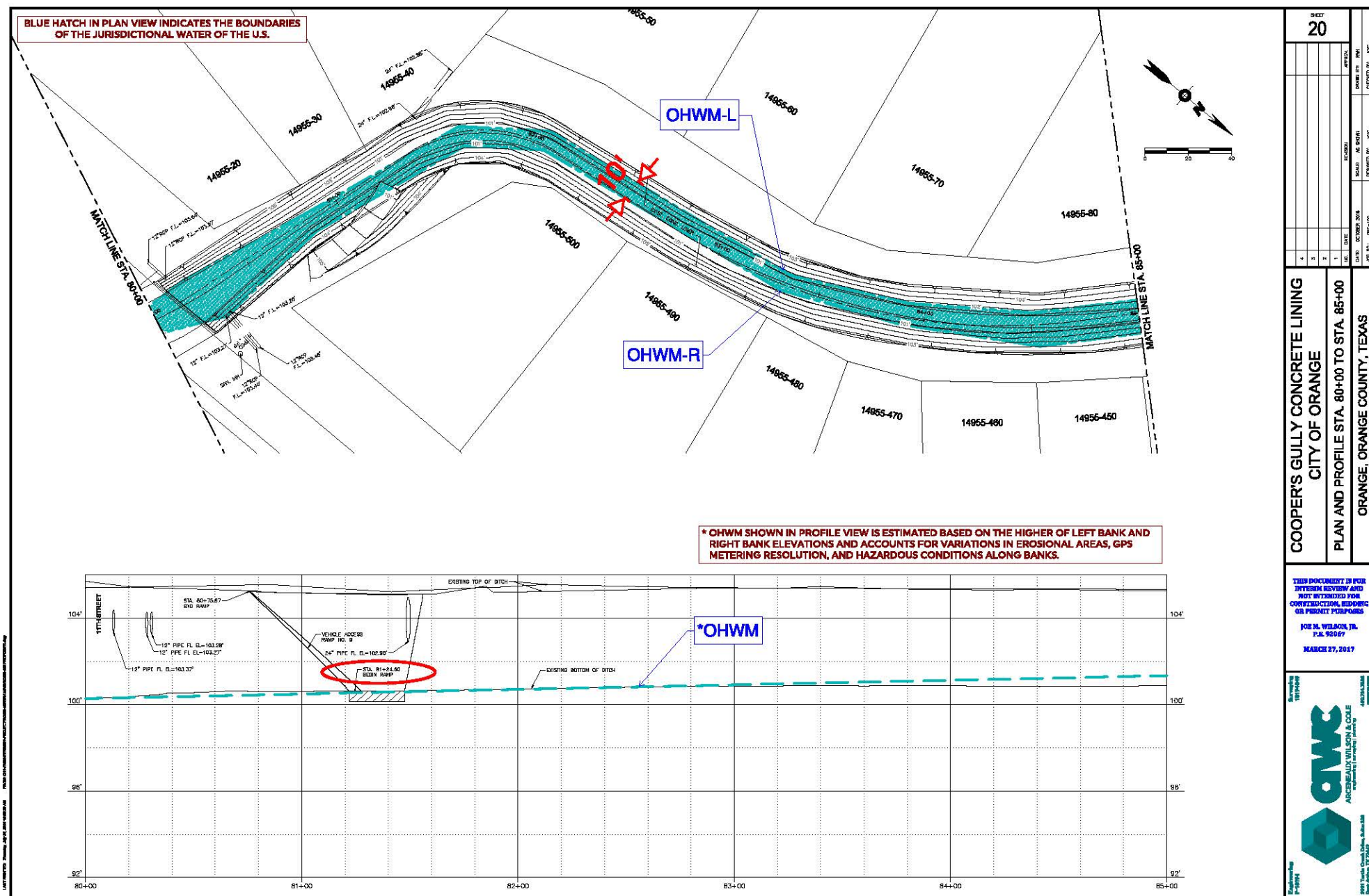
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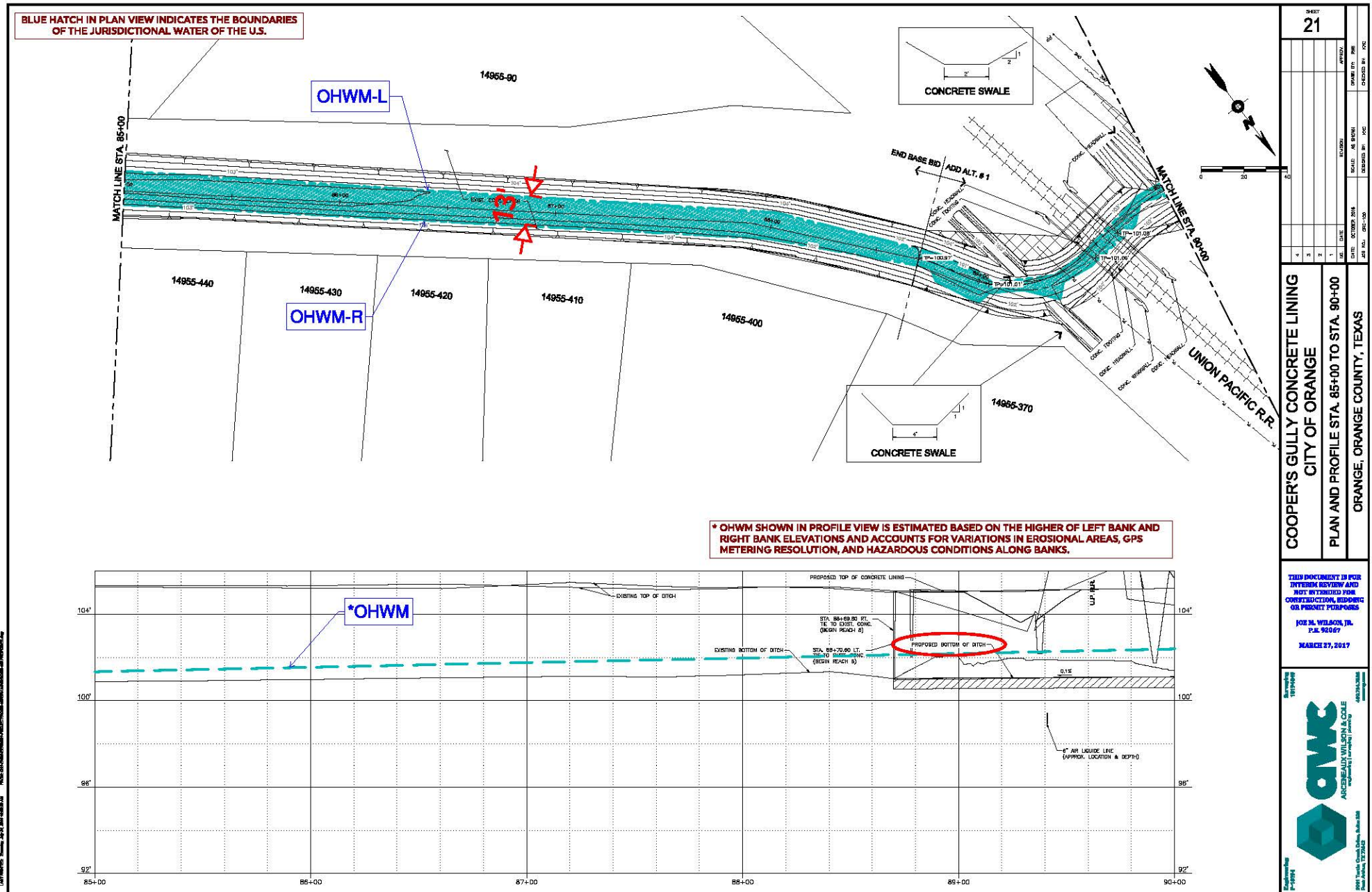
COOPER'S GULLY CONCRETE LINING
CITY OF ORANGE
PLAN AND PROFILE STA. 75+00 TO STA. 80+00
ORANGE, ORANGE COUNTY, TEXAS

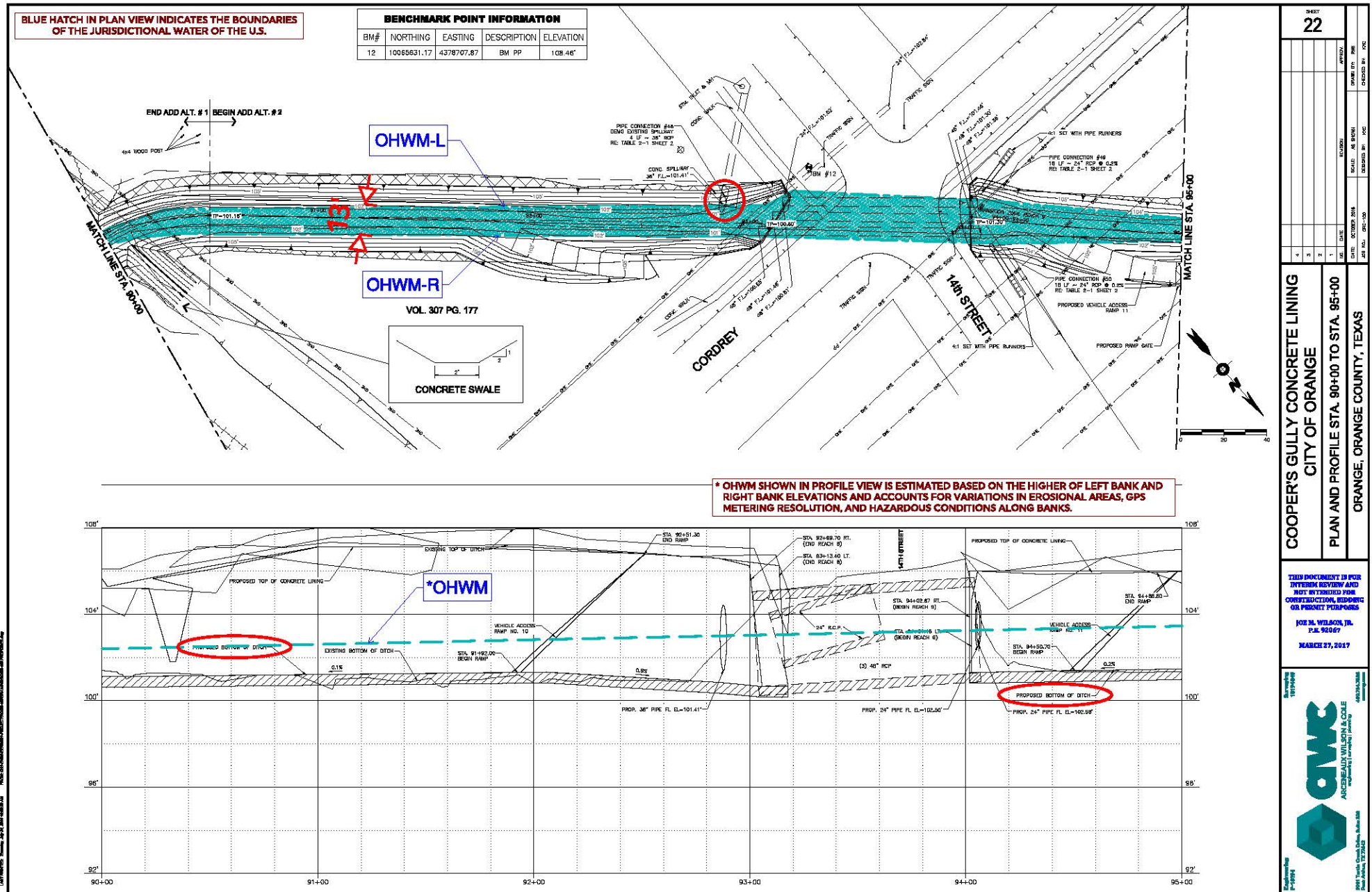
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES

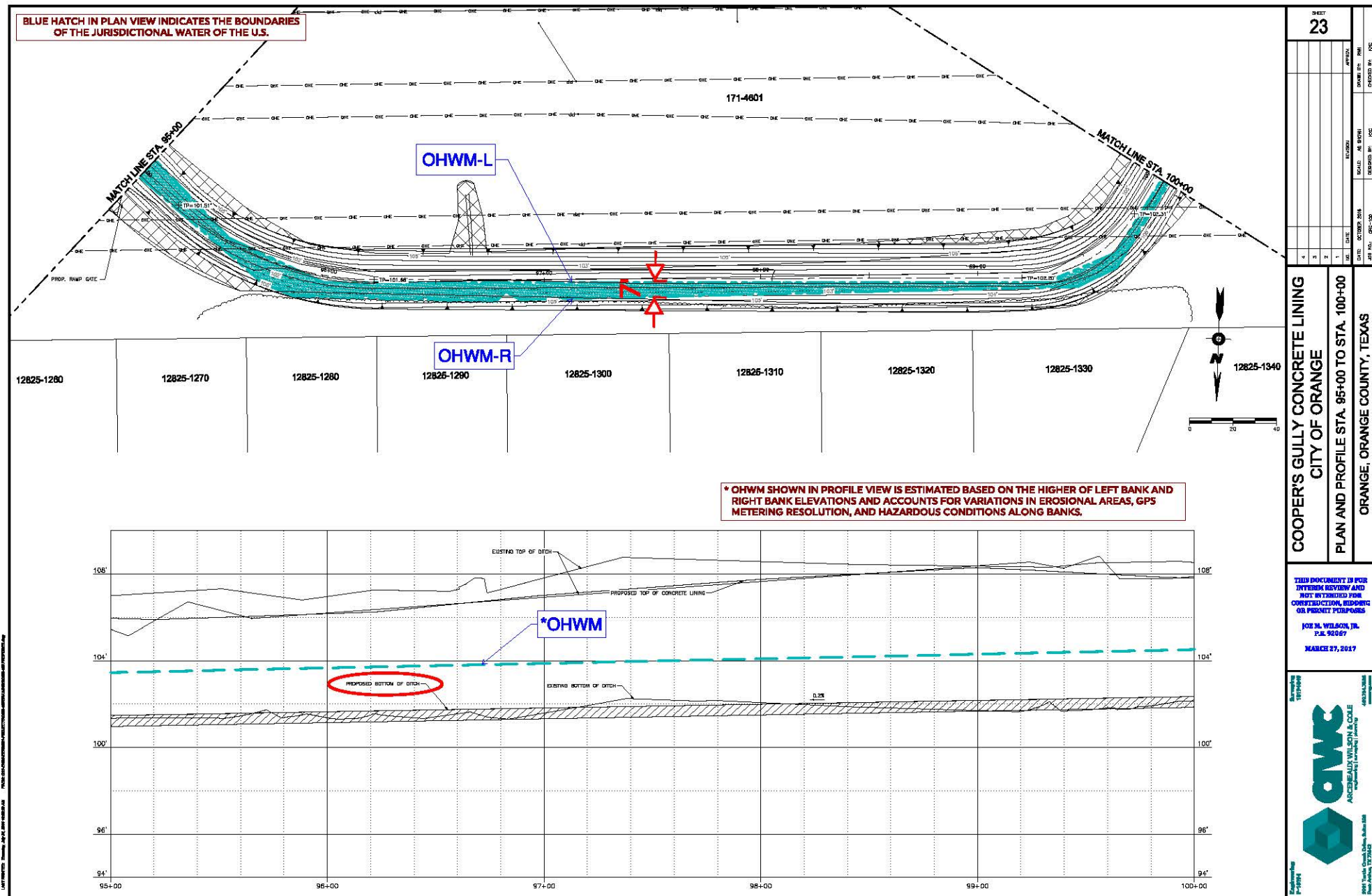
JOE M. WILSON, JR.
P.E. 92067
MARCH 27, 2017

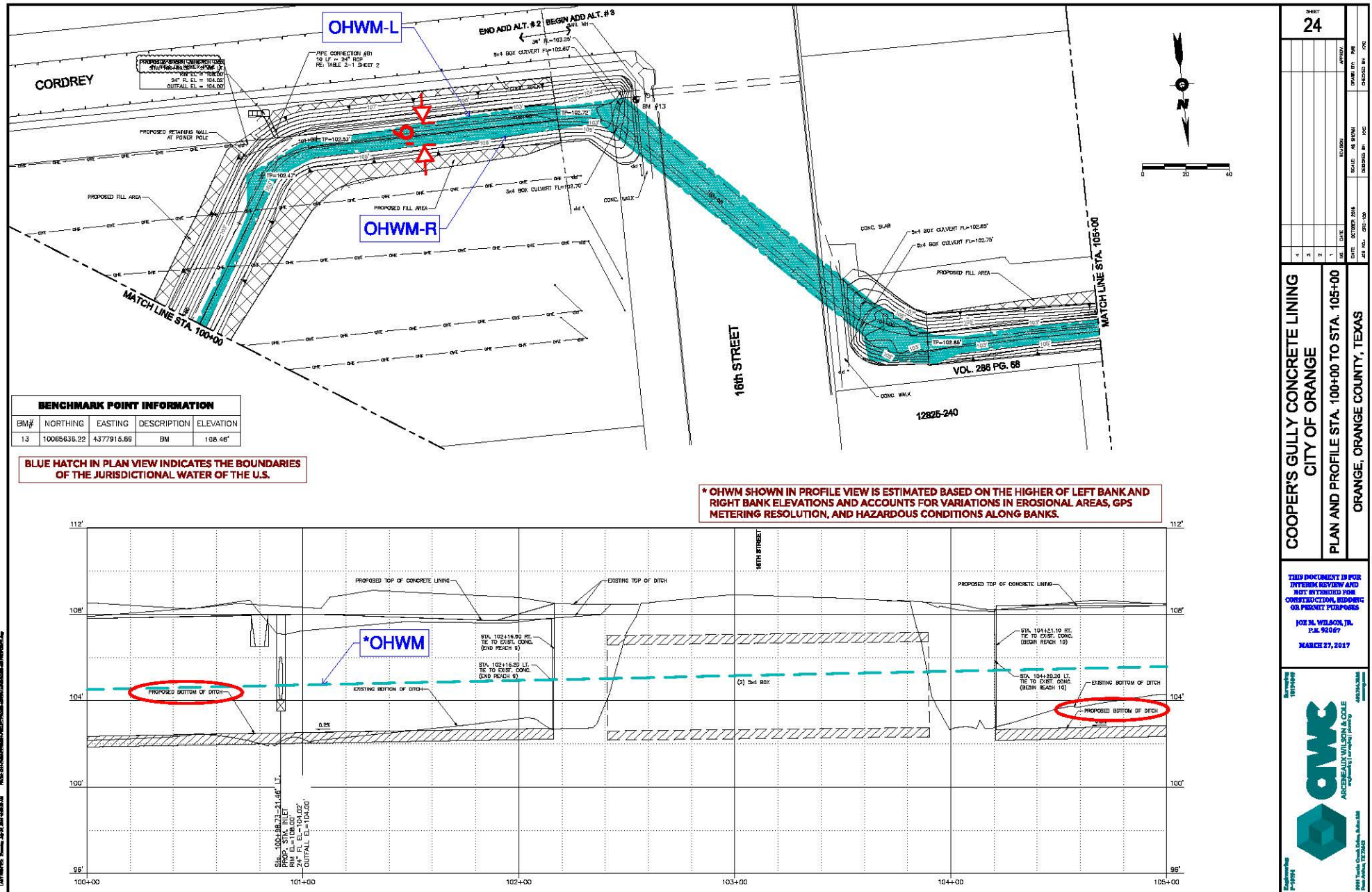
OWC
ORANGE WATER CONSTRUCTION
11000 W. 11TH STREET, SUITE 100, ORANGE, TEXAS 77660
TEL: 714.944.1100
FAX: 714.944.1101
WWW.OWC-ORANGE.COM

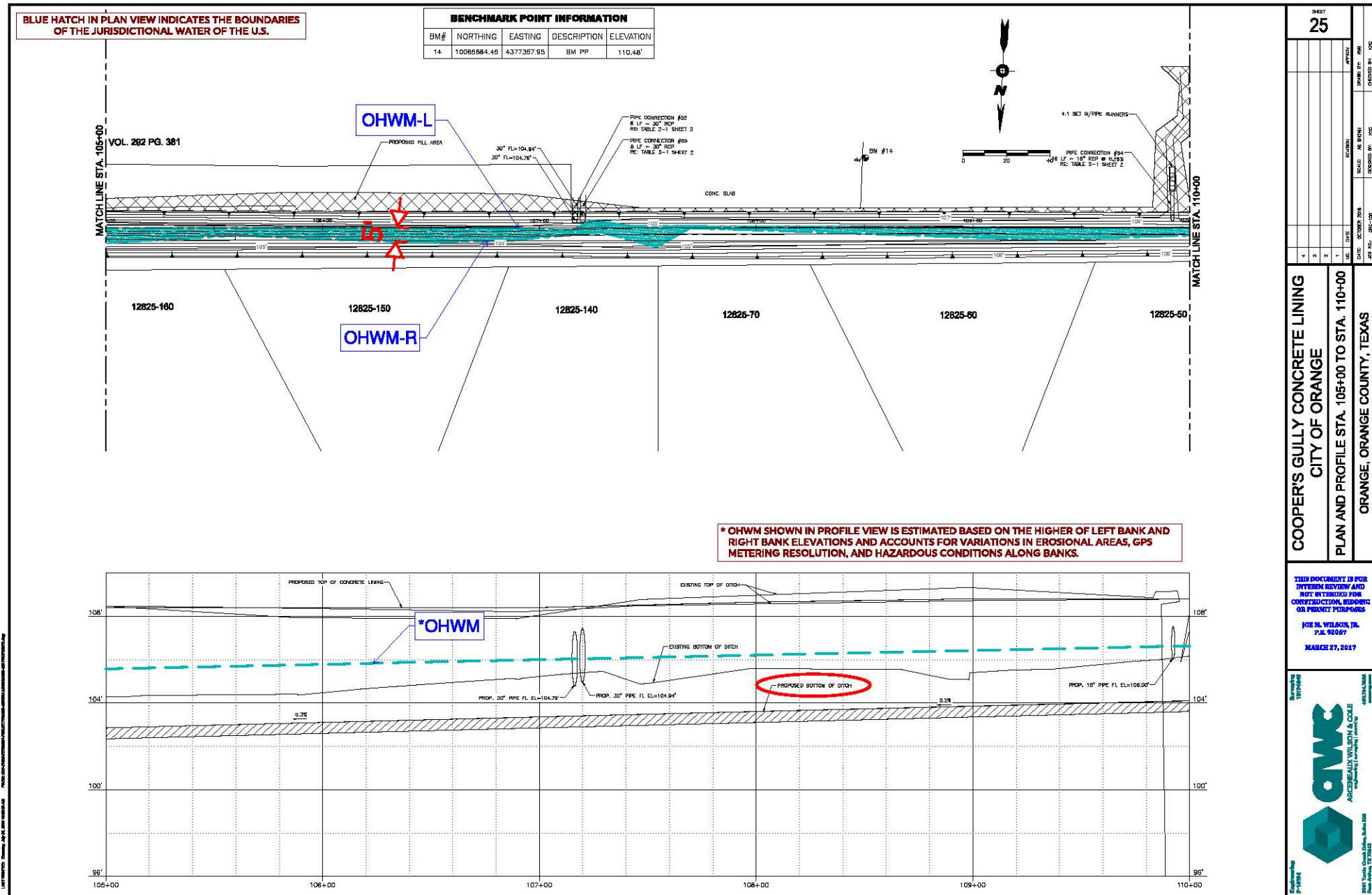


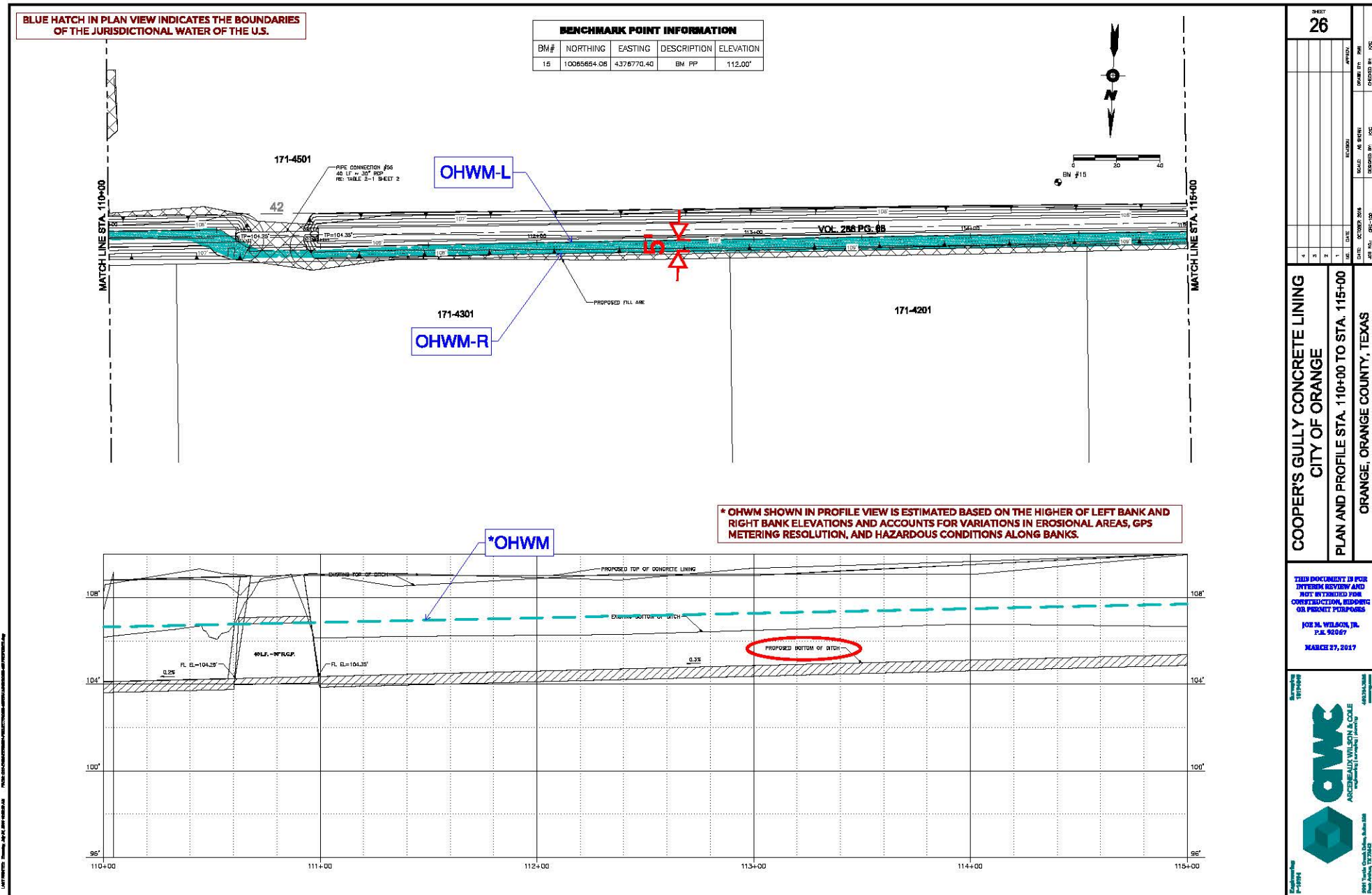


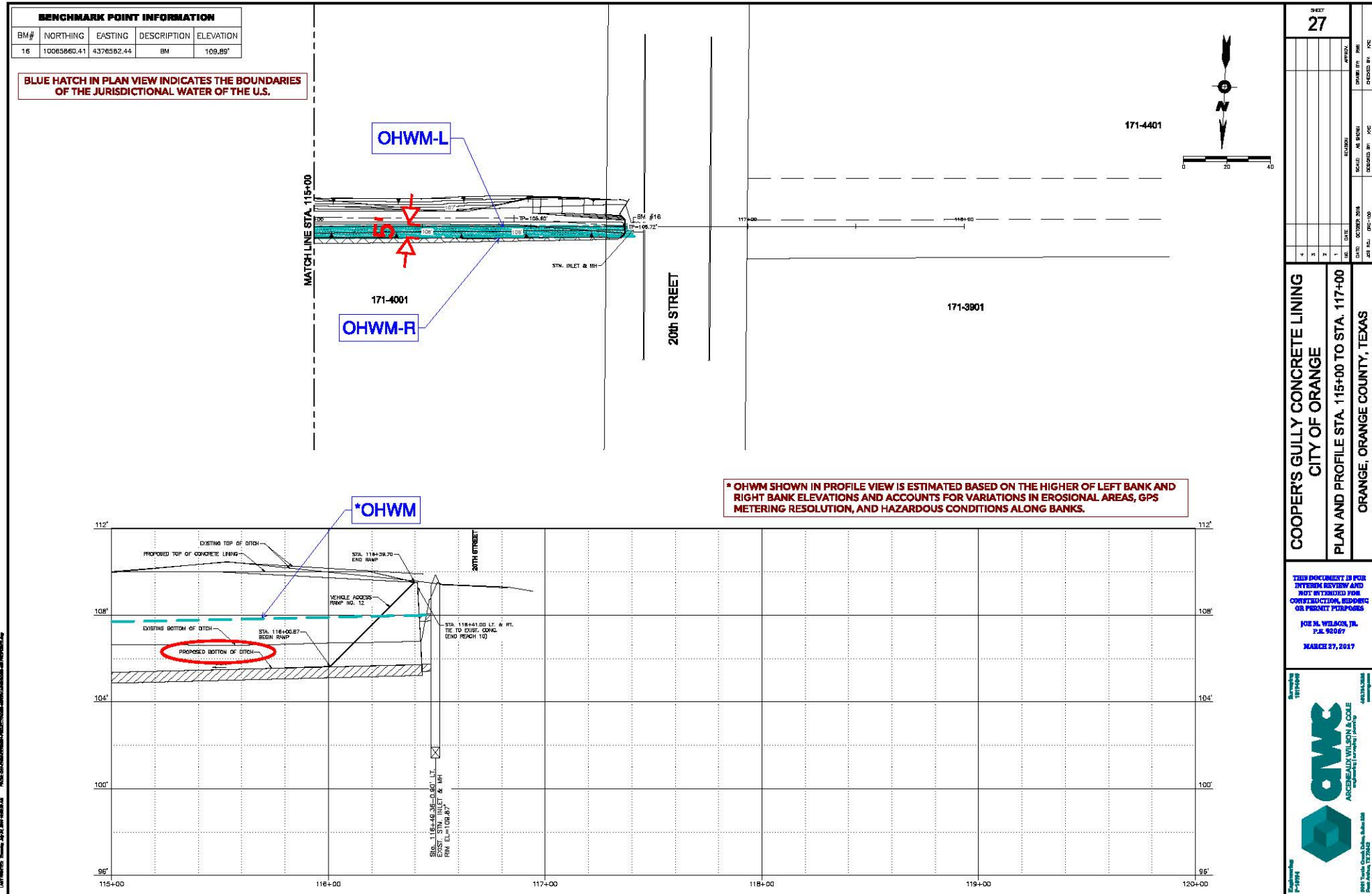


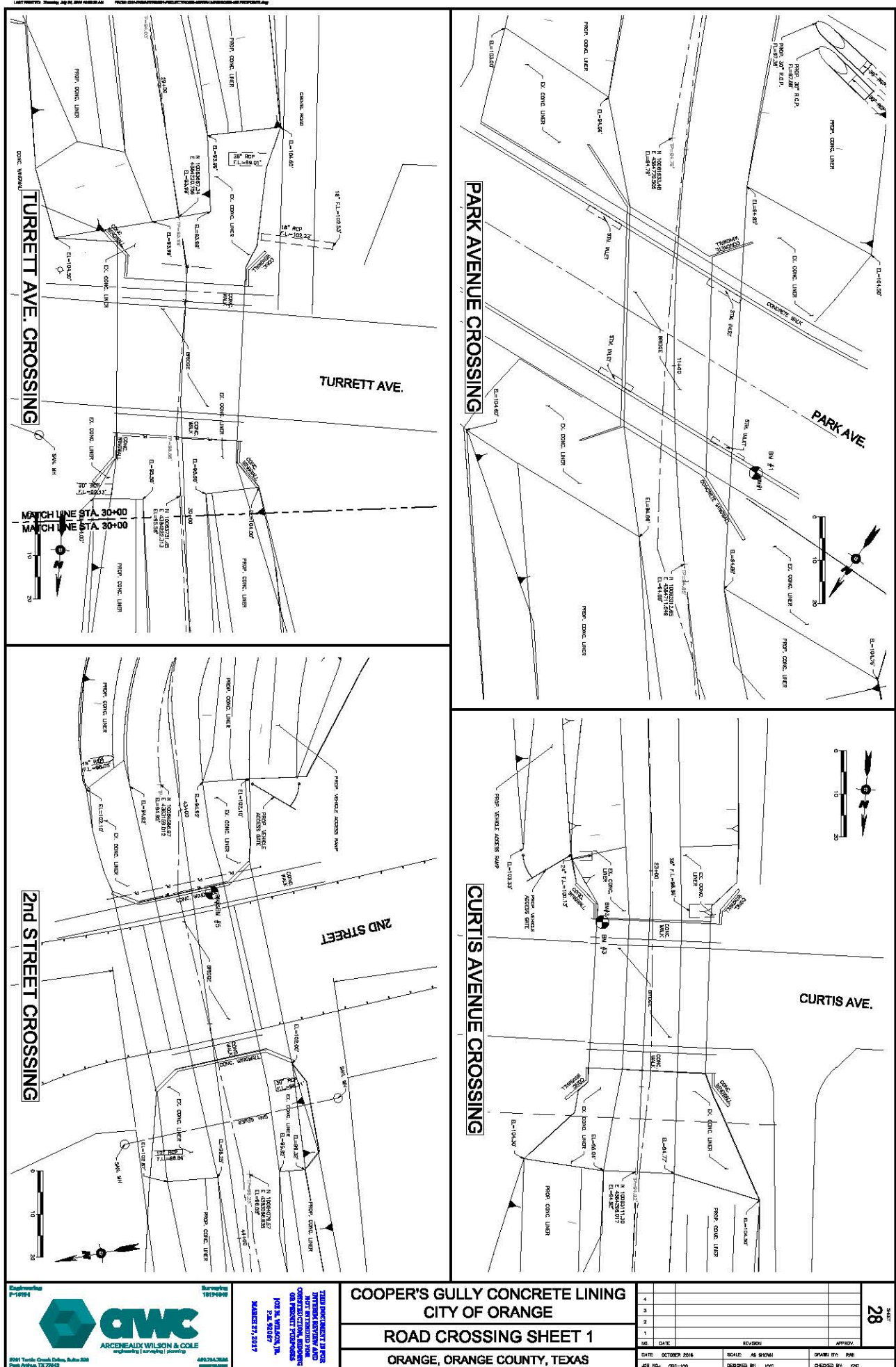


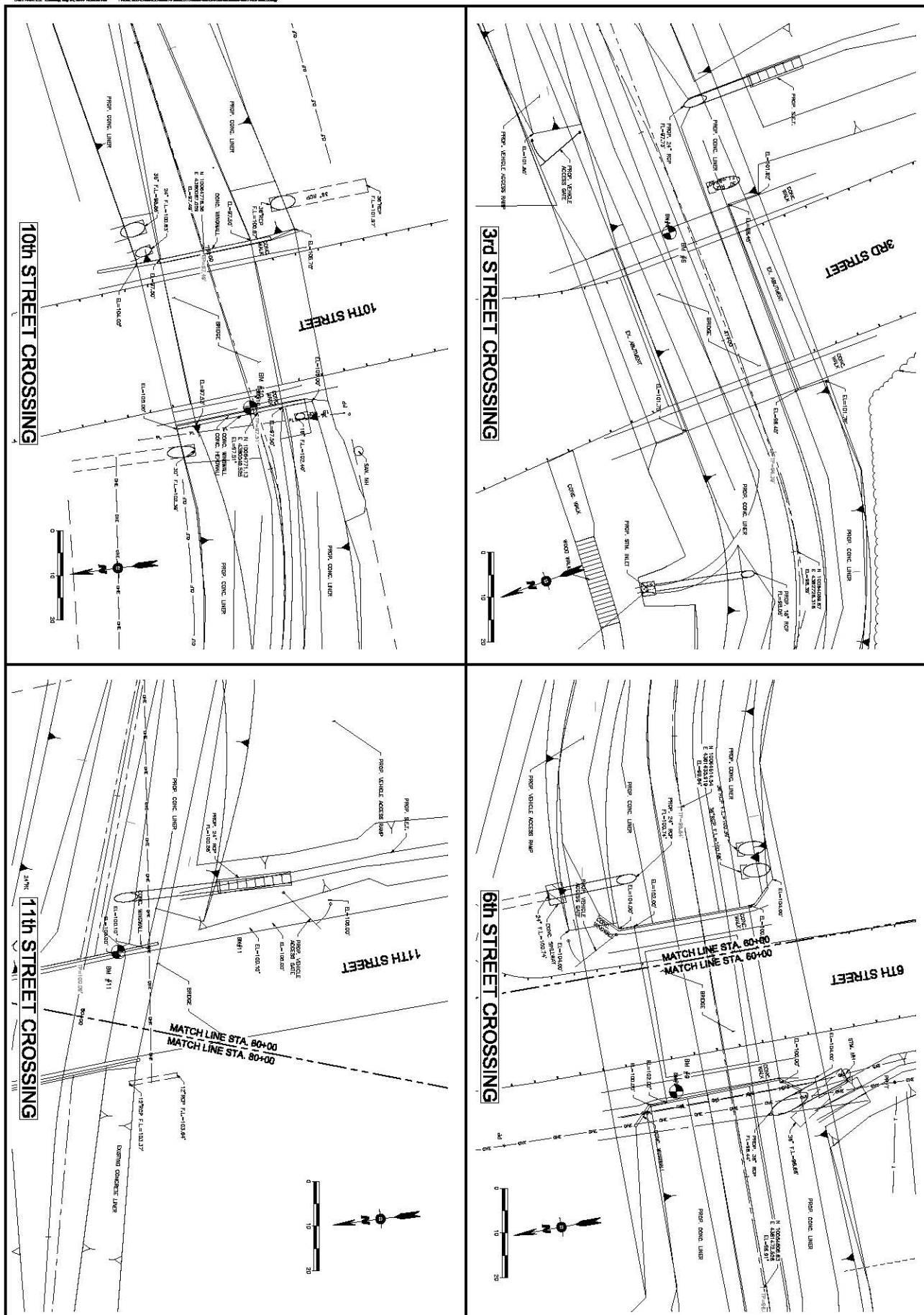


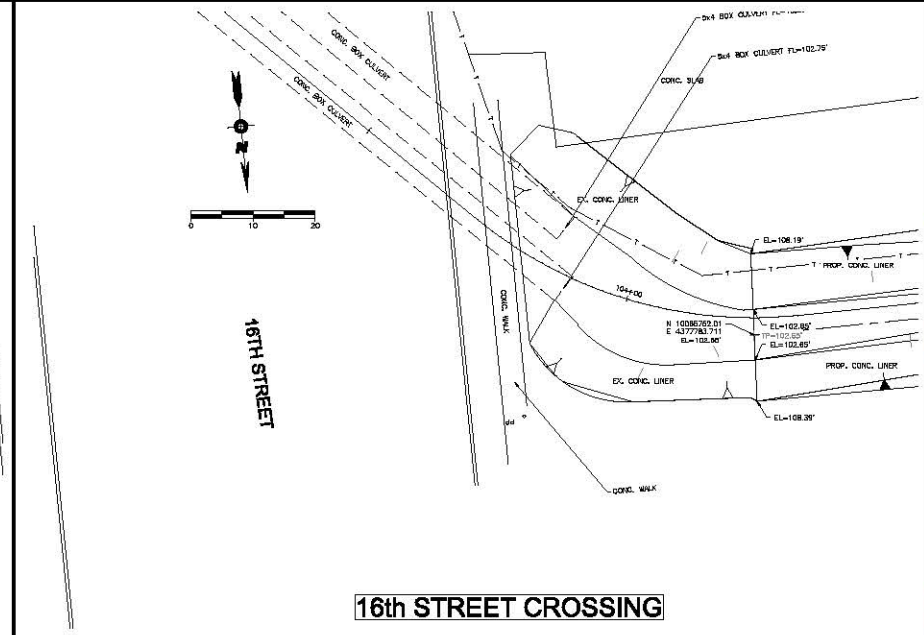
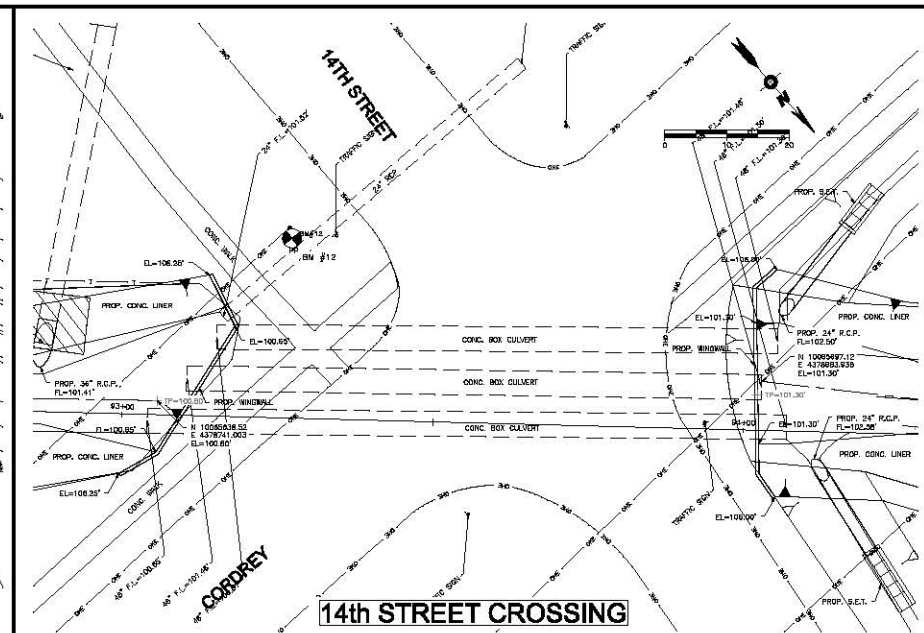




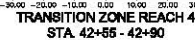
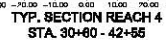
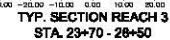
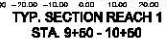




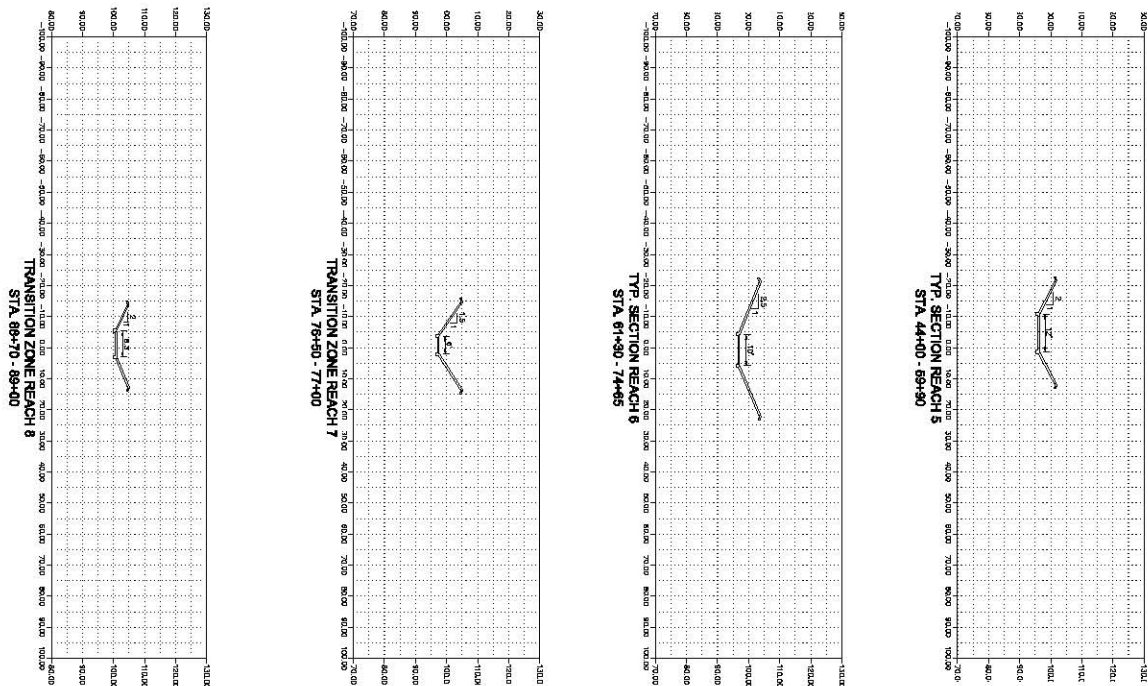
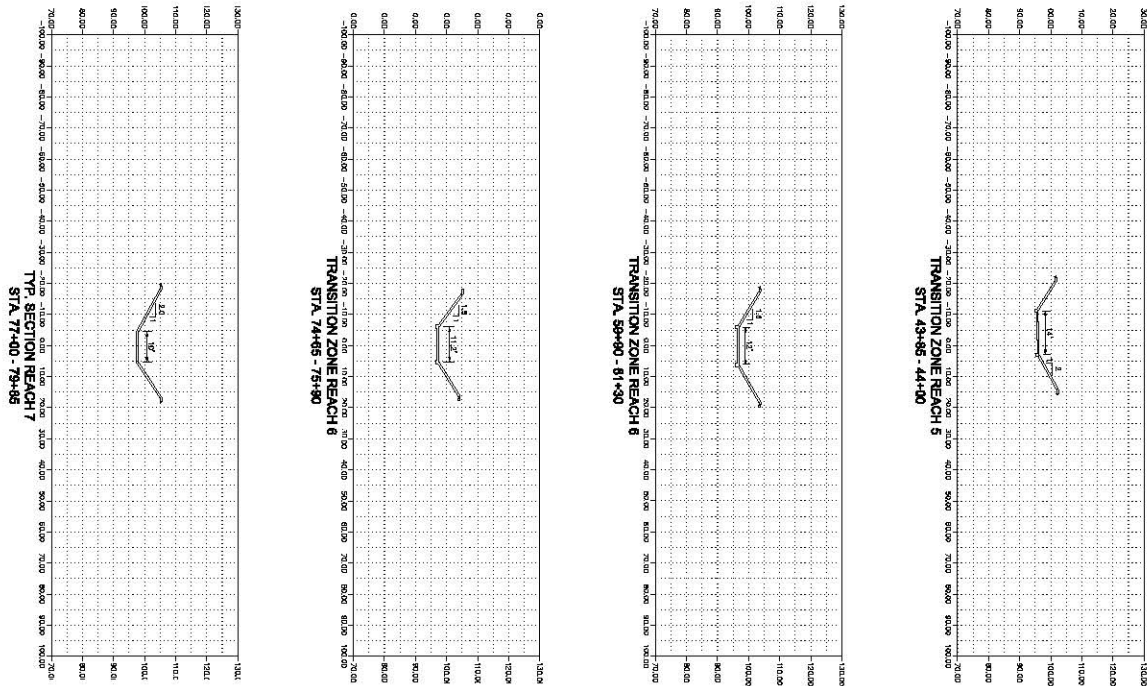


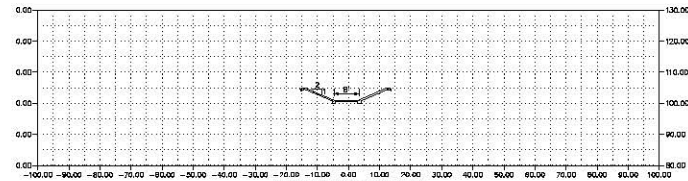


THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES		FOR M. WILSON, JR. P.E. 90067		MARCH 27, 2017	
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE		ROAD CROSSING SHEET 3		ORANGE, ORANGE COUNTY, TEXAS	
SAMPLE NO. 1017046		 ORANGE & WILSON & COLE ENGINEERS & SURVEYORS		4805 S. 28th Street Suite 200 Fort Worth, Texas 76119	
DATE: OCTOBER 2016		SCALE: AS SHOWN		DRAWN BY: PNC	
JOB NO.: ORC-100		DESIGNED BY: PNC		CHECKED BY: PNC	
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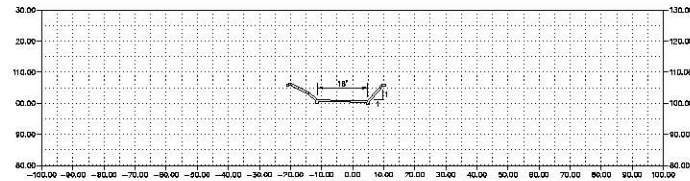


Cooper's Gully Concrete Lining City of Orange Cross Sections Sheet 1 Orange, Orange County, Texas THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, RECORD OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017 AWC ARCELAUX WILSON & SONS ENGINEERING & SURVEYING, INC. 4902 S. 28th St. Suite 200 Fort Worth, Texas 76116 817-399-9999 Revised/Issued 10/10/14	DATE: OCTOBER 2014	SCALE: AS SHOWN	DESIGN: 31	
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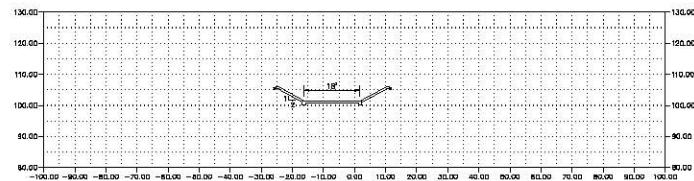




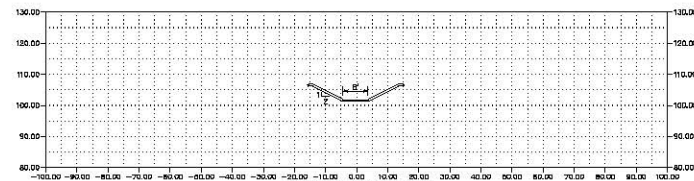
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STA. 89+00 - 92+86



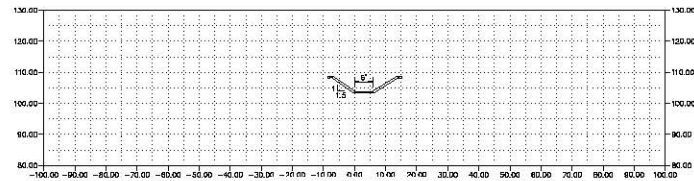
TRANSITION ZONE REACH 8
STA. 92+86 - 93+00



TRANSITION ZONE REACH 9
STA. 94+00 - 94+40

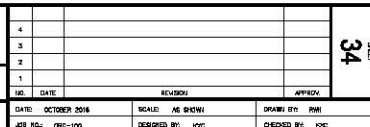


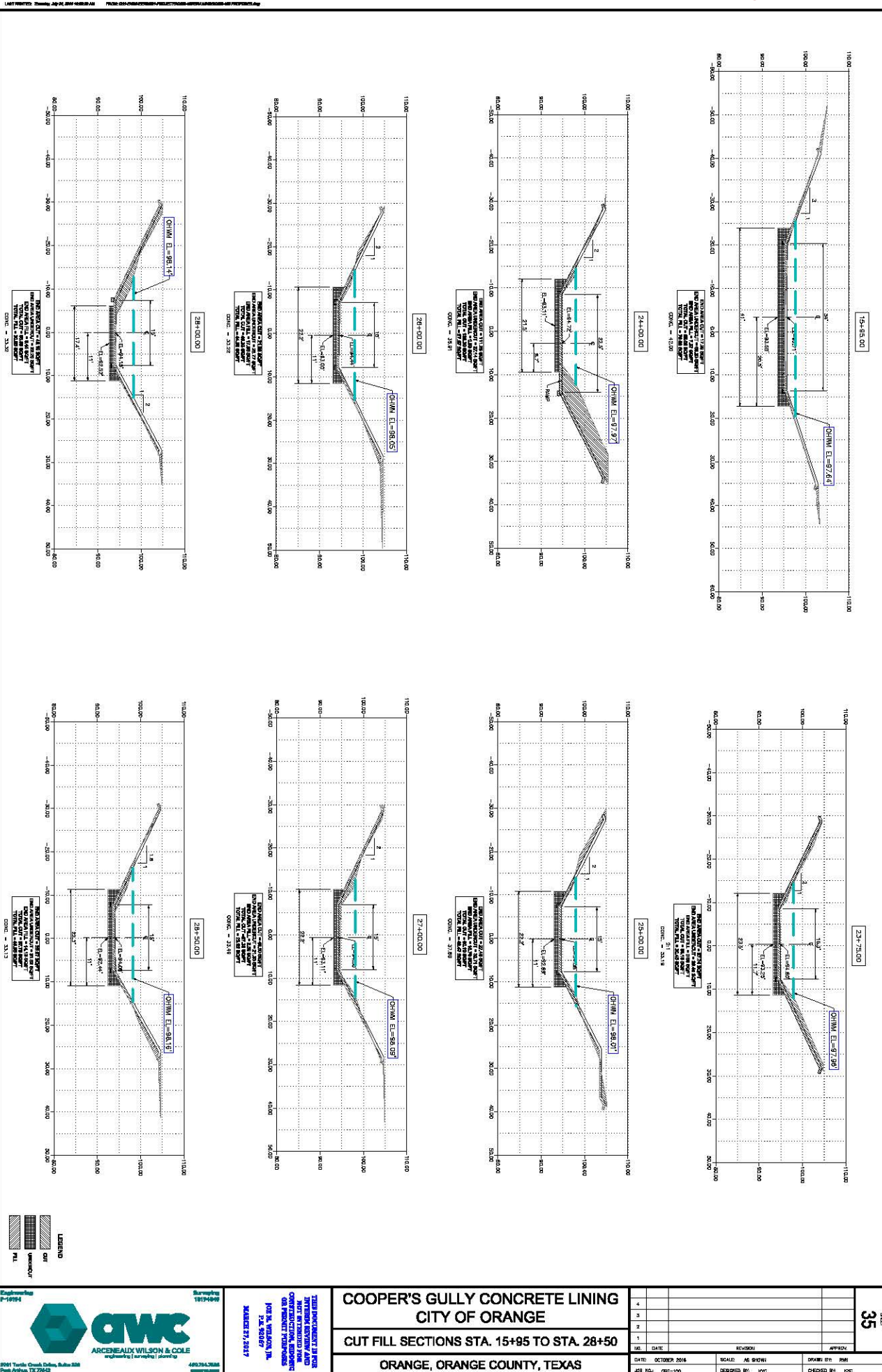
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STA. 94+40 - 102+15

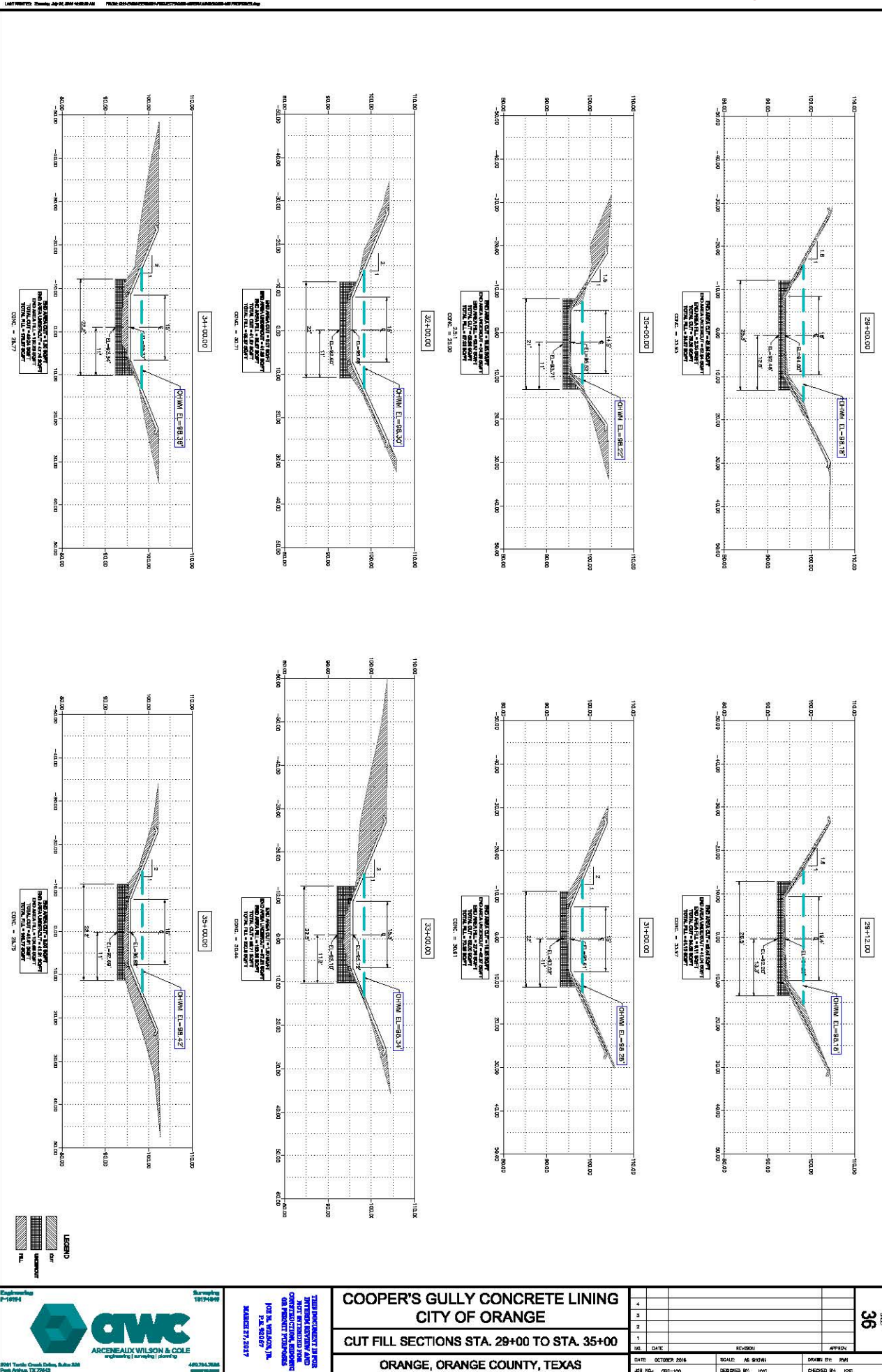


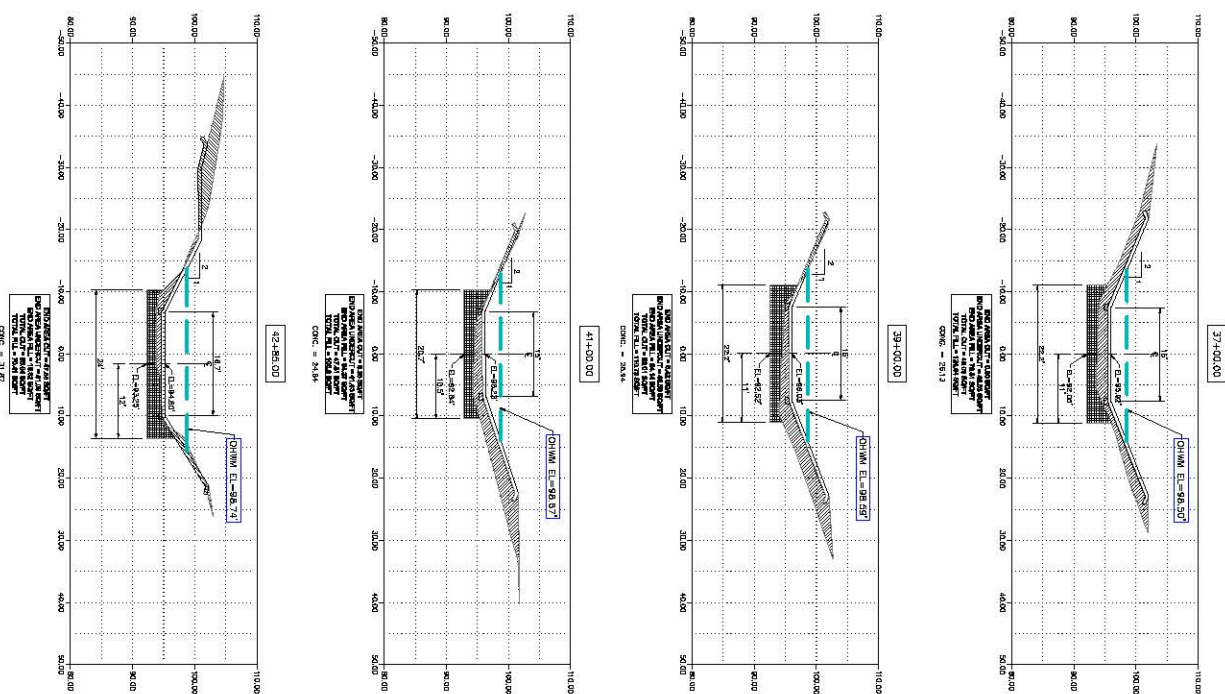
TYP. SECTION REACH 10
STA. 104+20 - 116+43

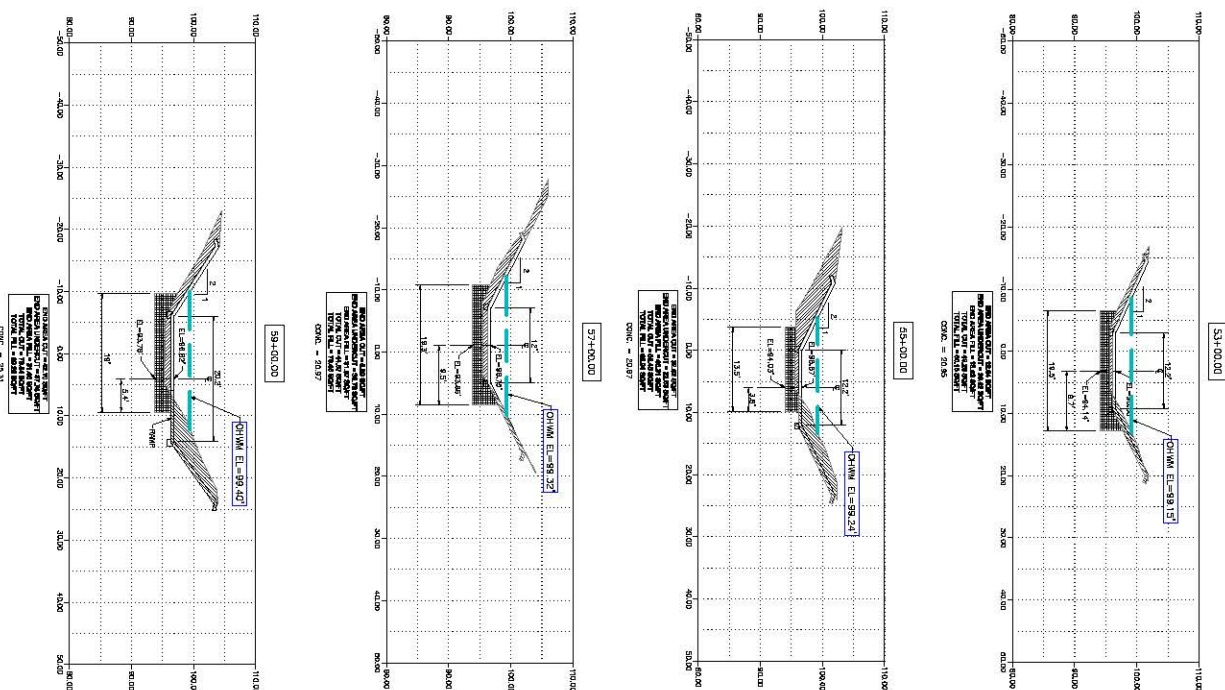
SHEET 33		DATE 3/27/2017	SCALE AS SHOWN	DESIGNED BY JWC	CHECKED BY JWC
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE		CROSS SECTIONS SHEET 3			
ORANGE, ORANGE COUNTY, TEXAS					
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017					
OWC ORANGE WATER & SEWER CONSTRUCTION, INC. 10000 W. 10th St., Suite 100 Dallas, Texas 75243 972-443-1000					

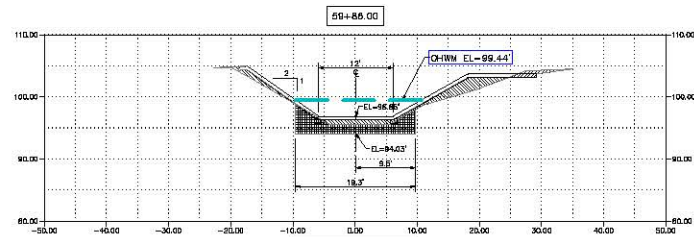




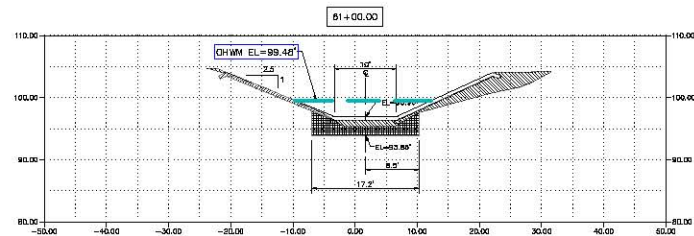




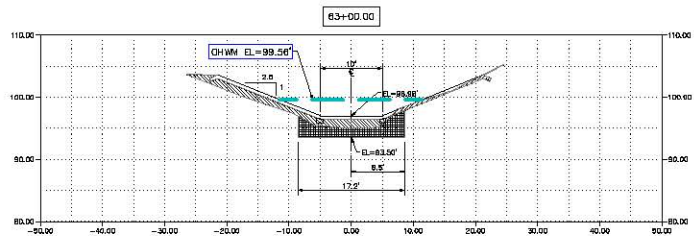




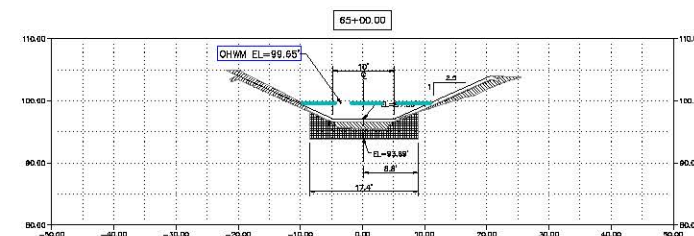
END AREA UNDERCUT = 42.00 SQ FT
END AREA FILL = 0.00 SQ FT
TOTAL CUT = 42.00 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 27.42



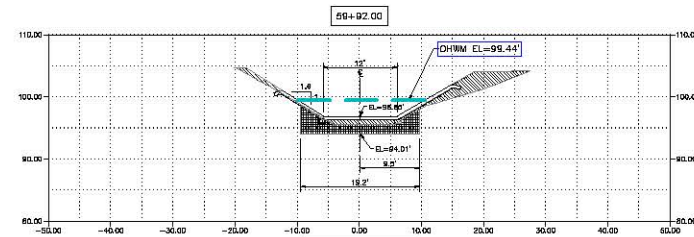
END AREA UNDERCUT = 32.75 SQ FT
END AREA FILL = 0.00 SQ FT
TOTAL CUT = 32.75 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 26.42



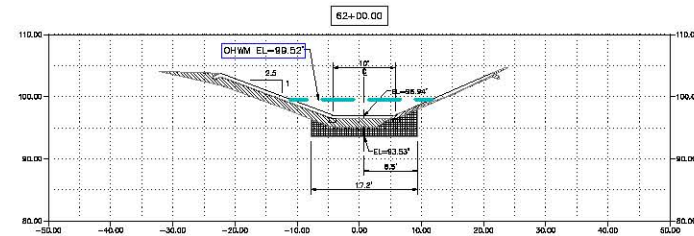
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TOTAL CUT = 32.75 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 26.30



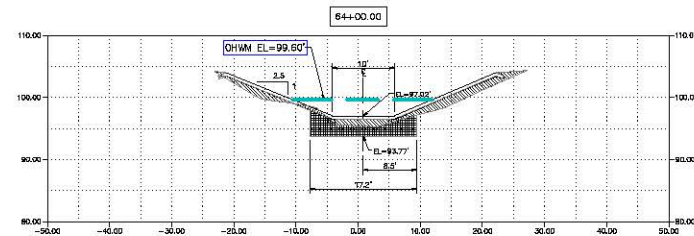
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TOTAL CUT = 32.75 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 24.41



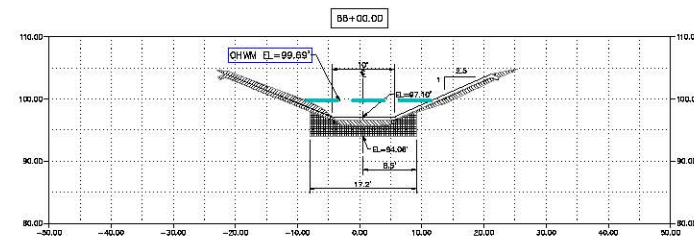
END AREA UNDERCUT = 42.00 SQ FT
END AREA FILL = 0.00 SQ FT
TOTAL CUT = 42.00 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 17.57



END AREA UNDERCUT = 32.75 SQ FT
END AREA FILL = 0.00 SQ FT
TOTAL CUT = 32.75 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 26.72



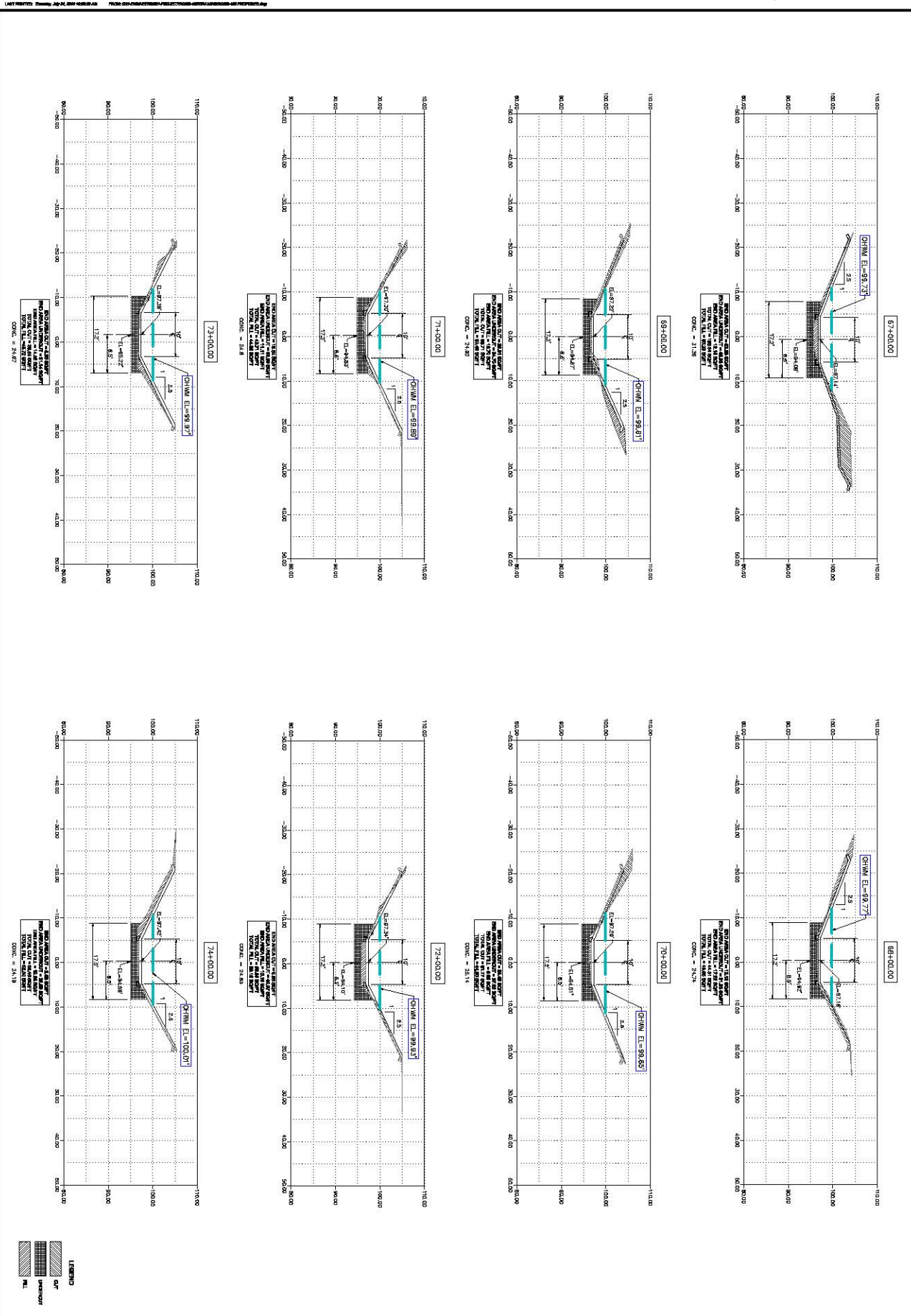
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TOTAL CUT = 32.75 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 20.87

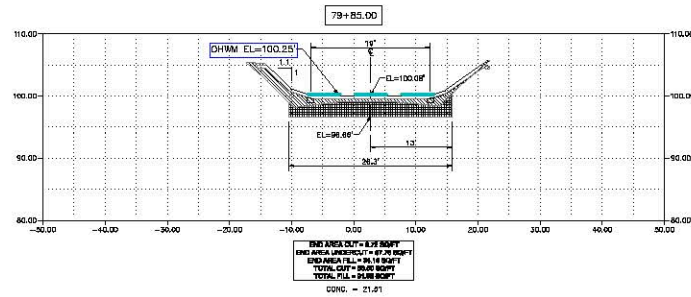
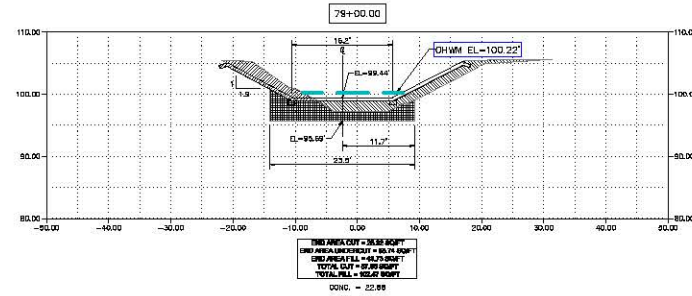
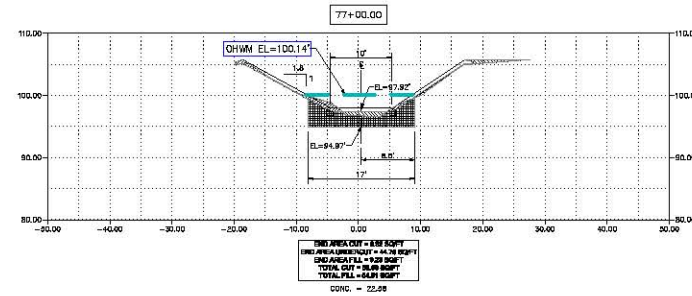
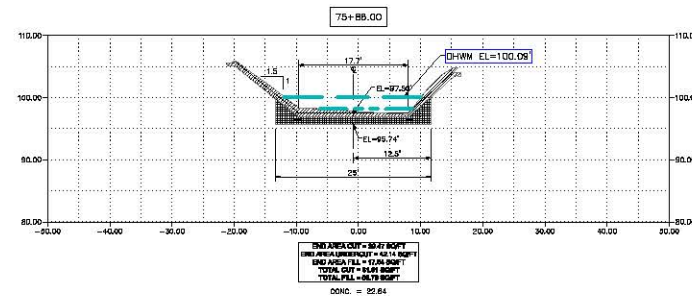
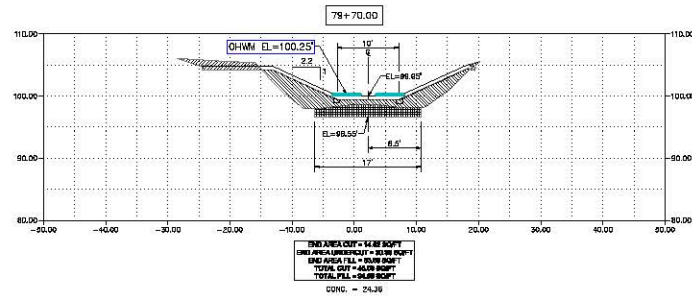
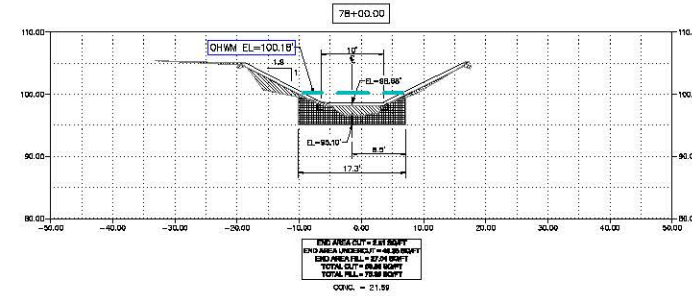
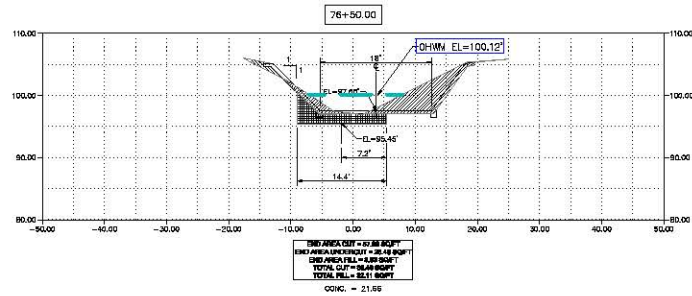
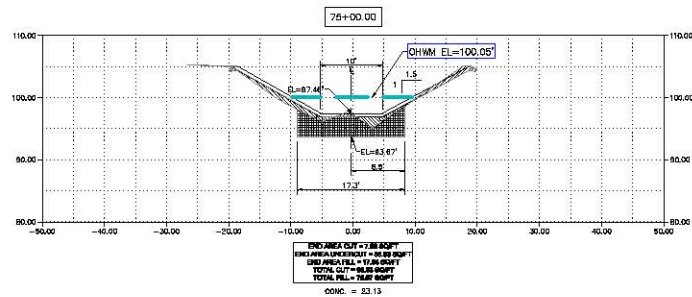


END AREA UNDERCUT = 32.75 SQ FT
END AREA FILL = 0.00 SQ FT
TOTAL CUT = 32.75 SQ FT
TOTAL FILL = 0.00 SQ FT
CONC. = 25.35

LEGEND
CUT
UNDERCUT
FILL

SHEET 40		DATE: 03/27/2017	DESIGNED BY: JWC	CHECKED BY: JWC
SCALE: AS SHOWN	APPROVED BY: JWC	DATE: 03/27/2017	DESIGNED BY: JWC	CHECKED BY: JWC
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE CUT FILL SECTIONS STA. 59+86 TO STA. 66+00 ORANGE, ORANGE COUNTY, TEXAS				
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017				
 CWC CONCRETE WALL CONSTRUCTION 10000 W. 10th Street, Suite 100 Houston, Texas 77057				

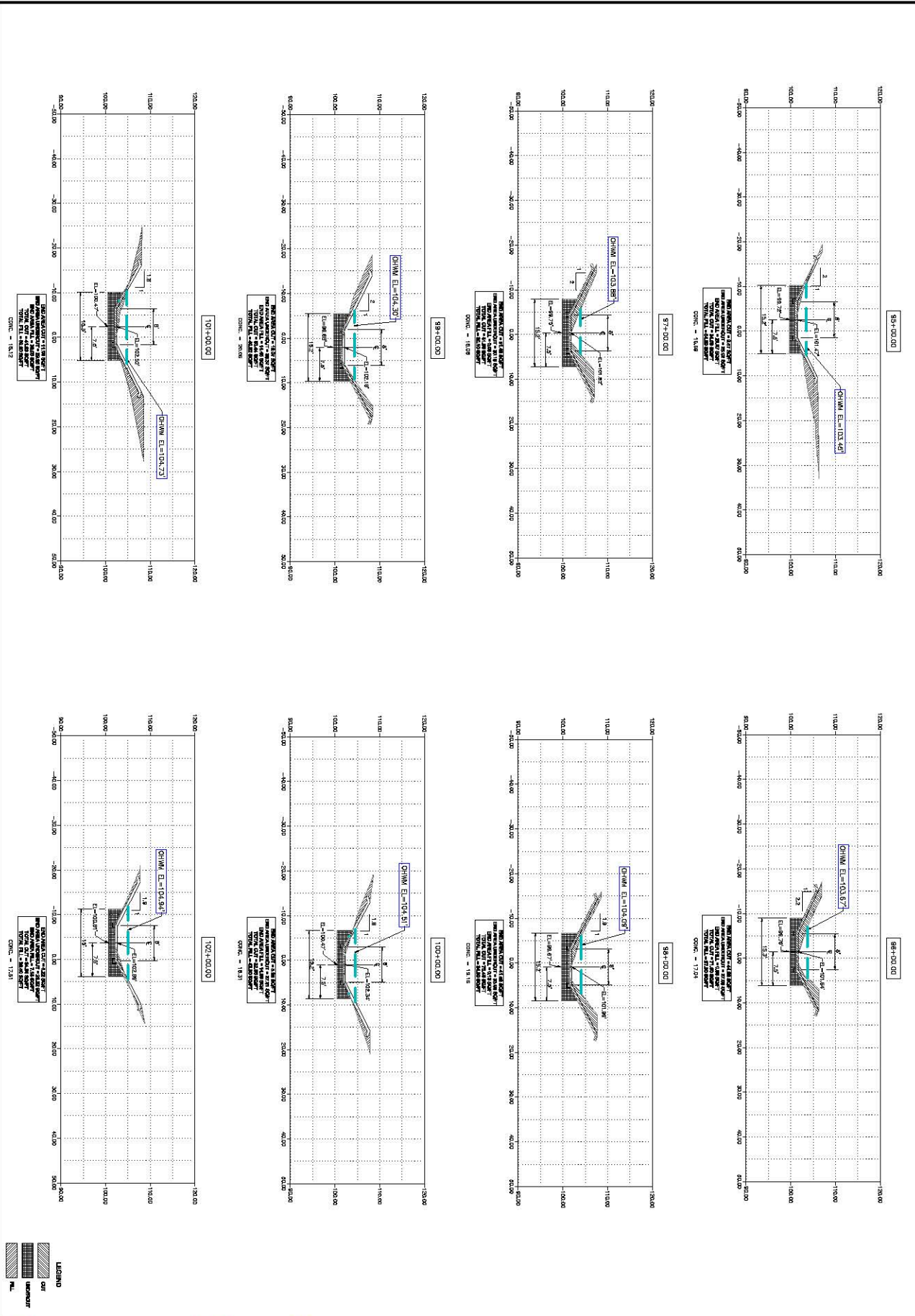




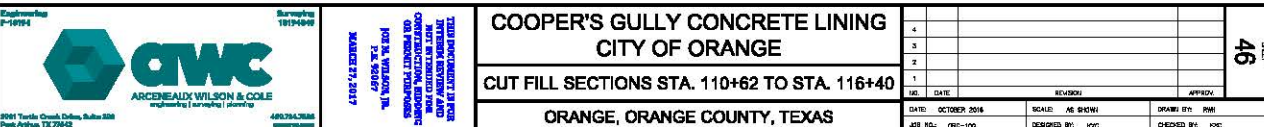
LEGEND

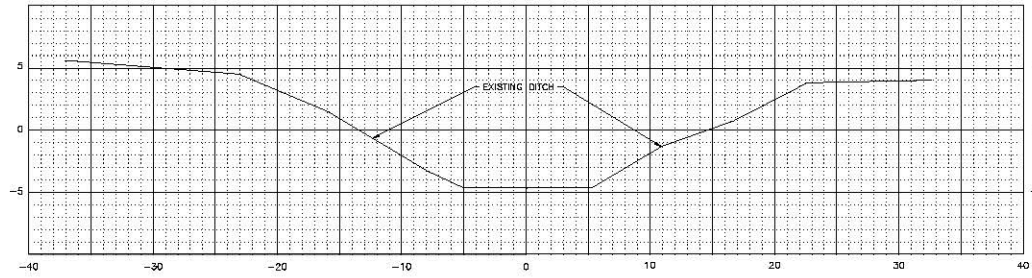
SHEET 42		DATE: 03/27/17	DESIGNED BY: JWC	CHECKED BY: JWC
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE		CUT FILL SECTIONS STA. 75+00 TO STA. 79+85 ORANGE, ORANGE COUNTY, TEXAS		
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017				

LAST PRINTED: Thursday, April 26, 2013 10:08:00 AM PROJECT: COT-CUT FILL CONCRETE LINING PROJECT: COT-CUT FILL CONCRETE LINING PROJECT: COT-CUT FILL CONCRETE LINING

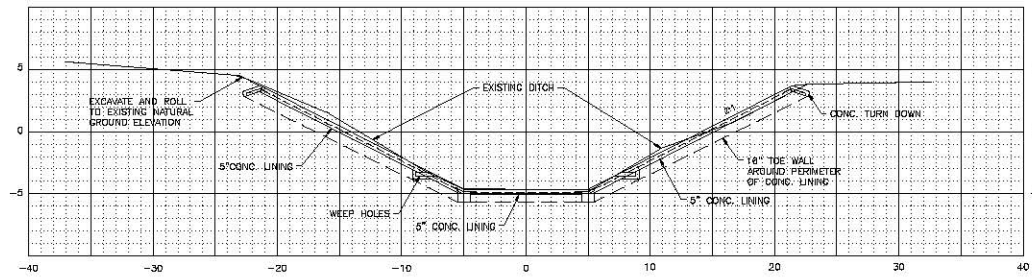








EXISTING TYPICAL SECTION
SCALE: 1"=5'



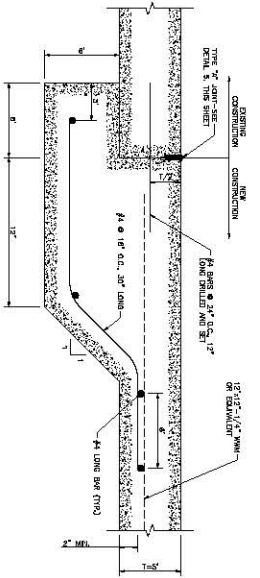
PROPOSED TYPICAL SECTION
SCALE: 1"=5'

SHEET 47		DATE APR 12	SCALE AS SHOWN	DESIGNED BY JWC	CHECKED BY JWC
1	2	3	4	5	6
DATE	DATE	DATE	DATE	DATE	DATE
1	2	3	4	5	6
DATE	DATE	DATE	DATE	DATE	DATE
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE TYPICAL CROSS SECTIONS ORANGE, ORANGE COUNTY, TEXAS					
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017					
 CWC CULVERT & GULLY CONSTRUCTION 11111 N. 111th St. Suite 100 Dallas, TX 75243 (214) 343-1111 www.cwc-cg.com					

LAST PRINTED: Drawing: SWG-2012-00823-01 PLOT: 03/20/2012 10:00 AM

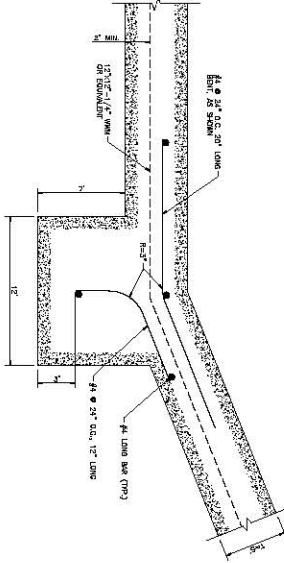
3 LINER TIE-IN

Scale: N.T.S.



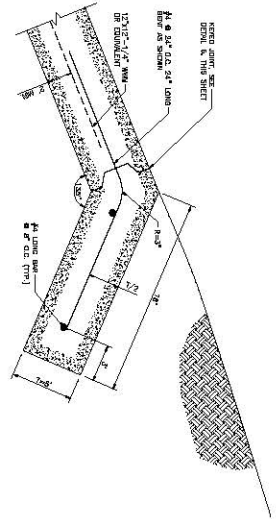
2 CONCRETE FOOTING

Scale: N.T.S.



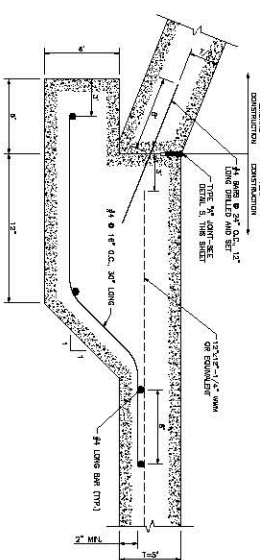
1 CONCRETE TURN DOWN

Scale: N.T.S.



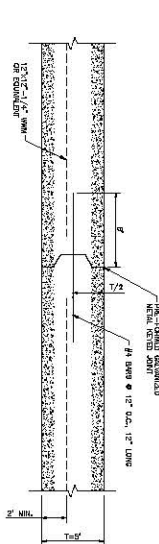
7 REPAIR DETAIL

Scale: N.T.S.



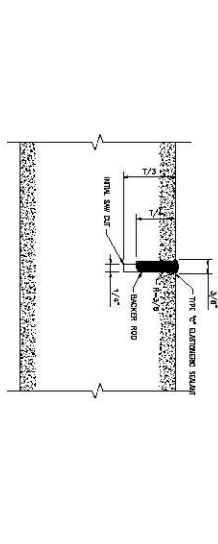
6 KEYED JOINT

Scale: N.T.S.



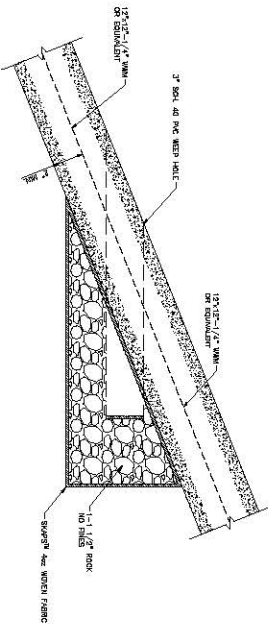
5 TYPE 'A' JOINT

Scale: N.T.S.



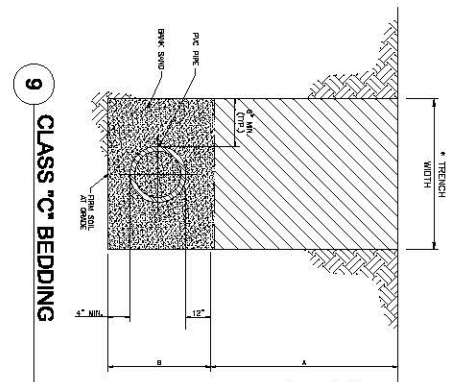
4 3\"/>

Scale: N.T.S.



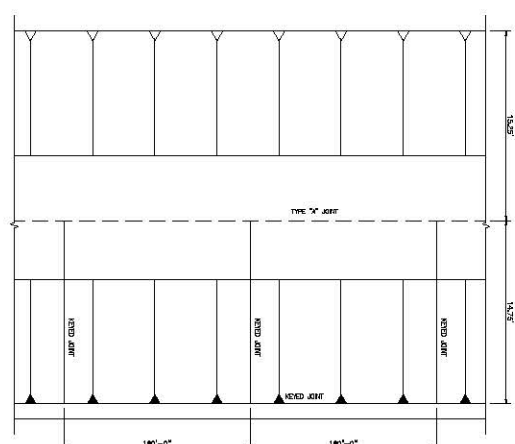
9 CLASS 'C' BEDDING

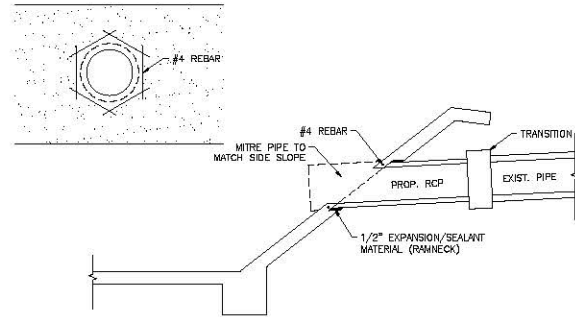
Scale: N.T.S.



8 TYPICAL JOINT LOCATION

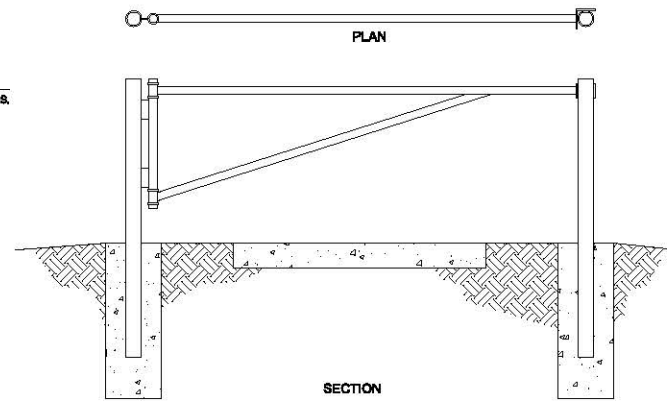
Scale: 1\"/>





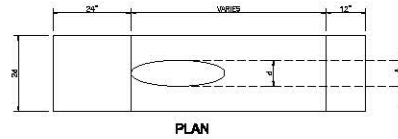
1 CULVERT MITRE @ LINER

Scale: N.T.S.



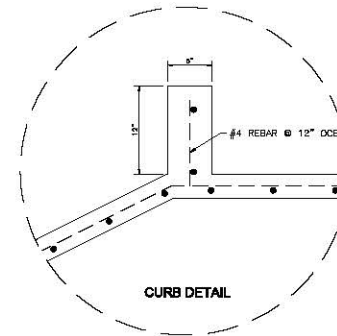
2 RAMP GATE

Scale: N.T.S.



3 CONCRETE SLOPE TREATMENT

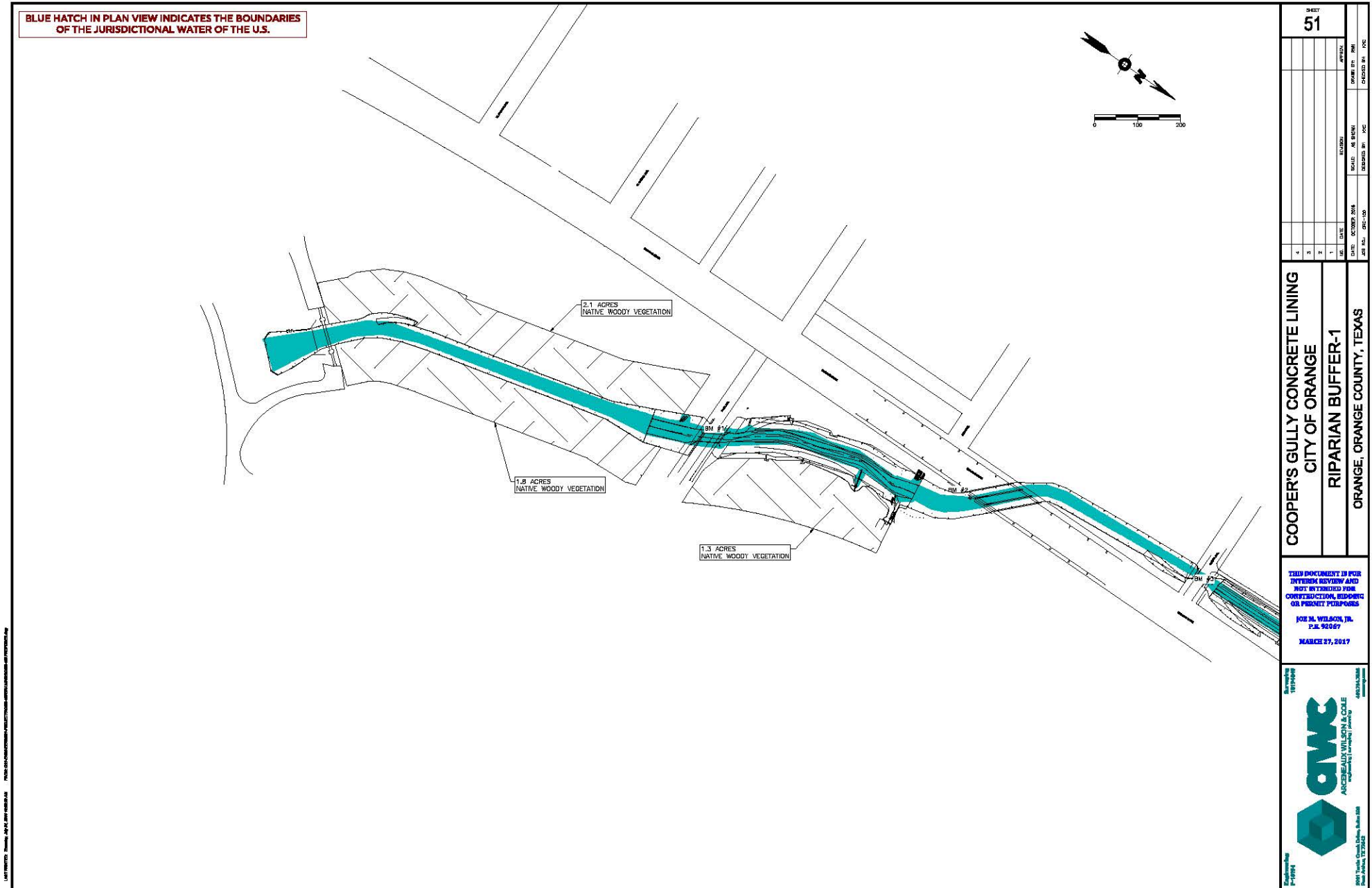
Scale: N.T.S.



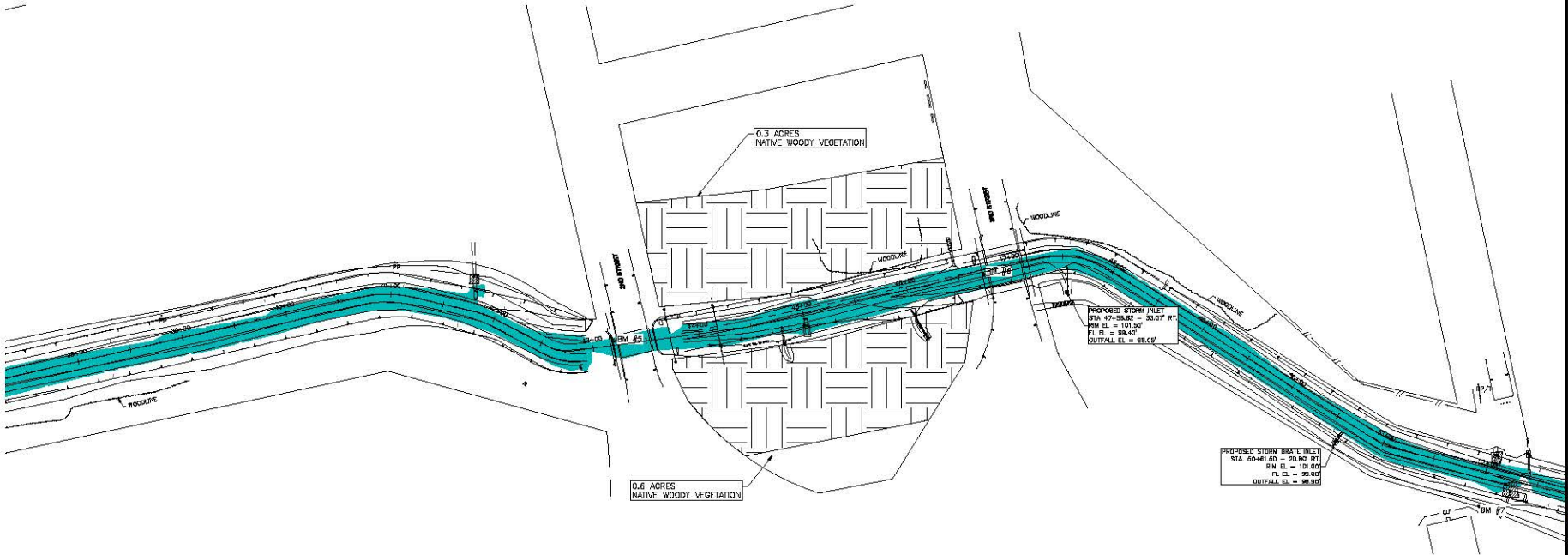
4 VEHICLE ACCESS RAMP

Scale: N.T.S.

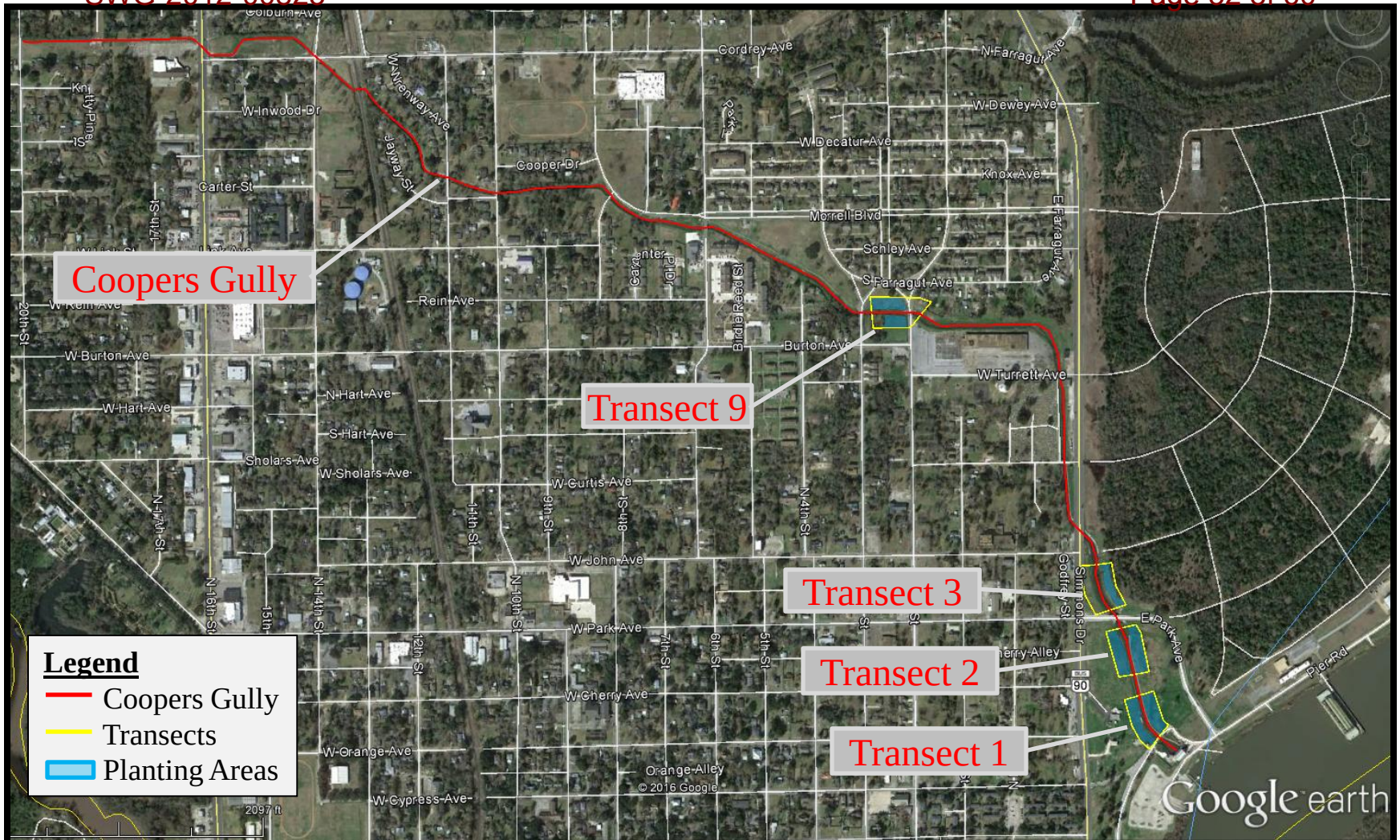
SHEET 49		DATE APR 22	SCALE AS SHOWN	DESIGNED BY JWC	CHECKED BY JWC
1	2	3	4	5	6
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE CONSTRUCTION DETAILS ORANGE, ORANGE COUNTY, TEXAS					
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017					



BLUE HATCH IN PLAN VIEW INDICATES THE BOUNDARIES OF THE JURISDICTIONAL WATER OF THE U.S.



SHEET 52		DATE: 03/27/2017	SCALE: AS SHOWN	DESIGNED BY: JWC	CHECKED BY: JWC
COOPER'S GULLY CONCRETE LINING CITY OF ORANGE RIPARIAN BUFFER-2		ORANGE, ORANGE COUNTY, TEXAS			
THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES JOE M. WILSON, JR. P.E. 92067 MARCH 27, 2017					
 AWC AMERICAN WILSON & COMPANY INCORPORATED		AWC AMERICAN WILSON & COMPANY INCORPORATED			



LOCATION MAP

Base Map Source: Google Earth Image Date 1/24/2015

Scale 1 in. = 1,100 ft



Project: Coopers Gully Improvements Project
Orange, Orange County, Texas



Tolunay-Wong
Engineers, Inc.

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas

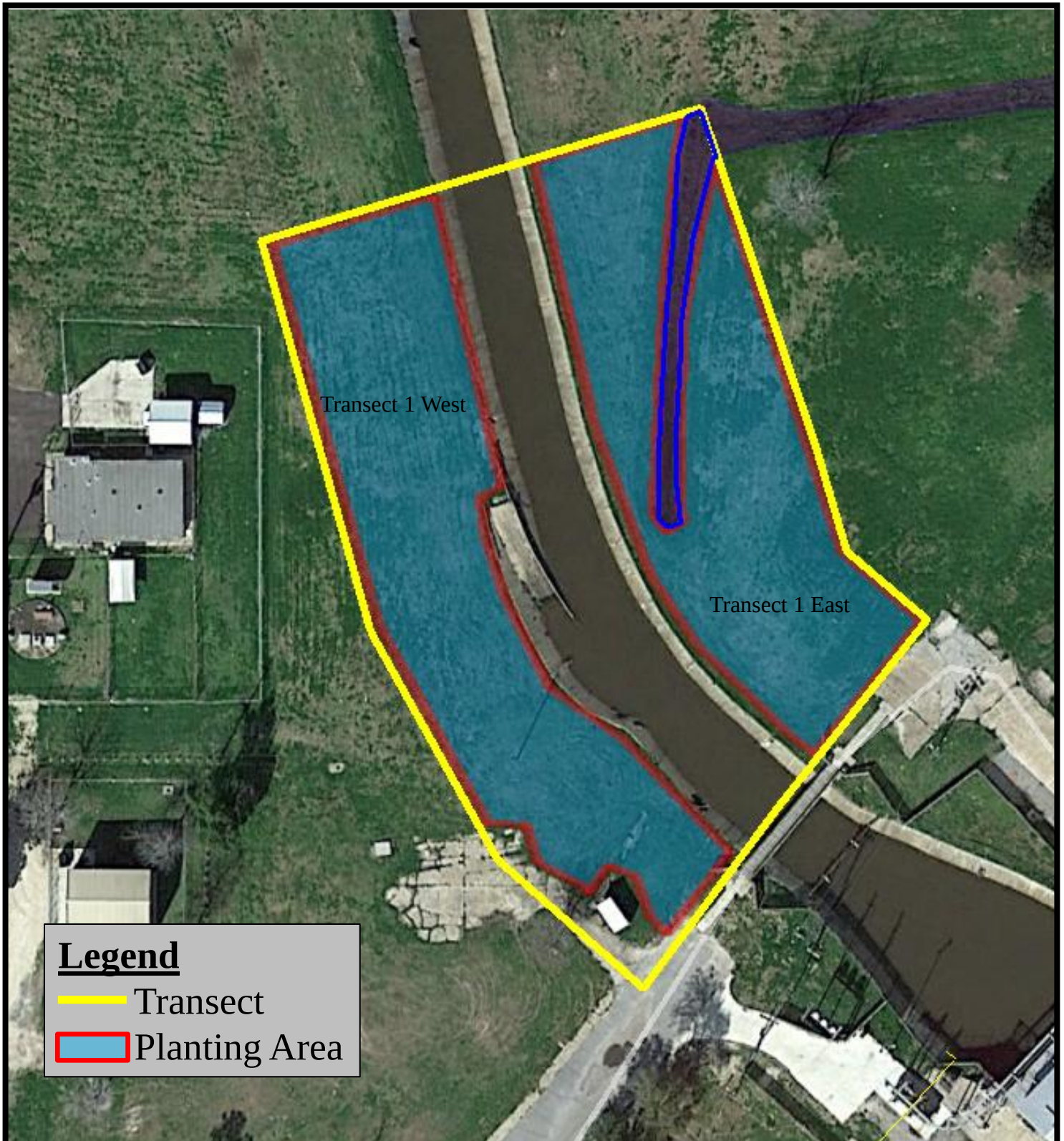


FIGURE 6: AERIAL PHOTO TRANSECT 1
Base Map Source: Google Earth Image Date 1/24/2015

Scale 1 in. ≈ 60 ft

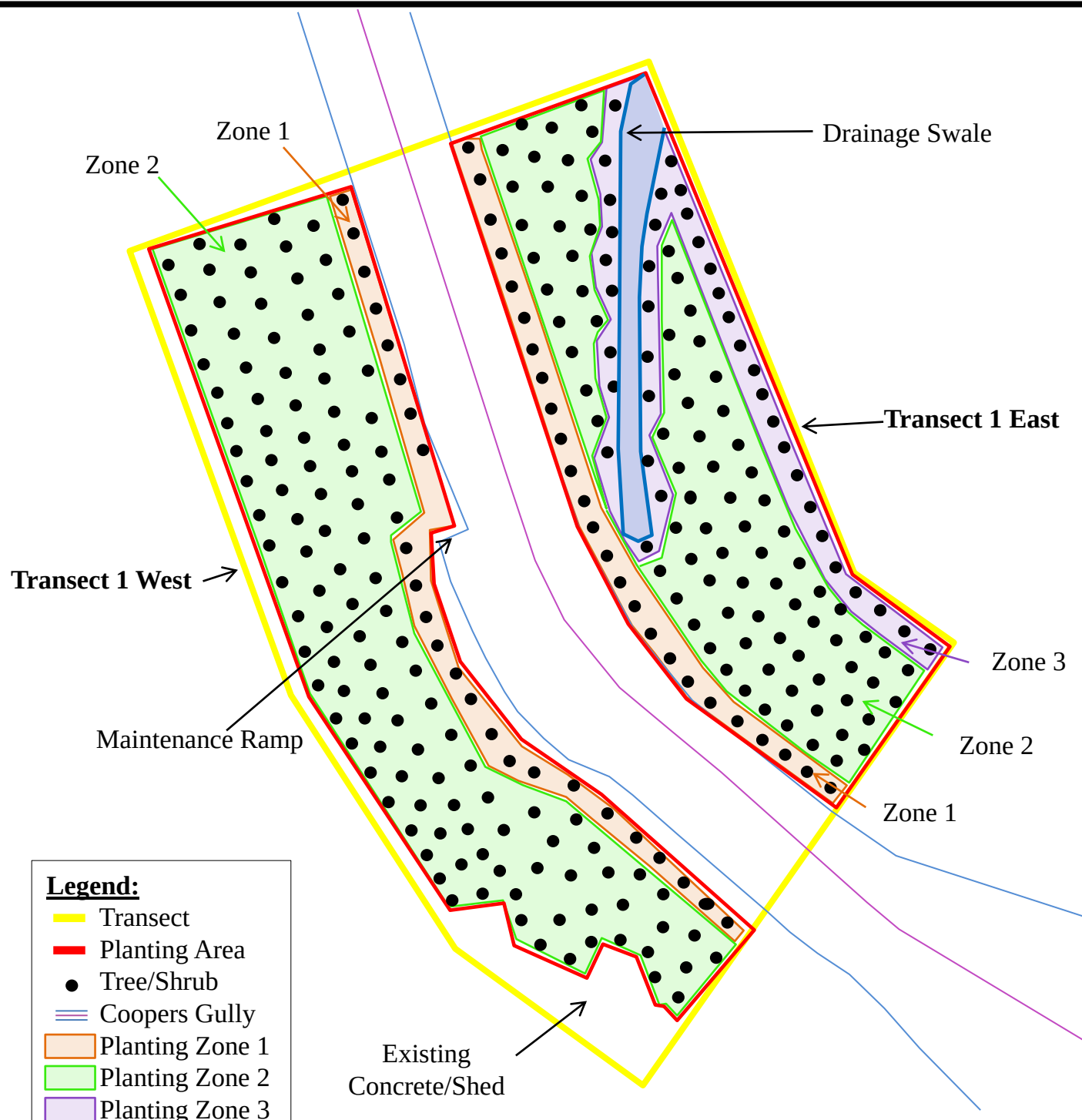


Project:
Coopers Gully
Improvements Project
Orange, Orange County, Texas

 **Tolunay-Wong
Engineers, Inc.**

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas



Note: See report text for Zone descriptions. Drawing is conceptual only; plantings may be adjusted in the field to accommodate Site specific conditions.

FIGURE 2: PLANTING MAP TRANSECT 1
Base Map Source: Arceneaux, Wilson & Cole, LLC

Scale 1 in. ≈ 60 ft

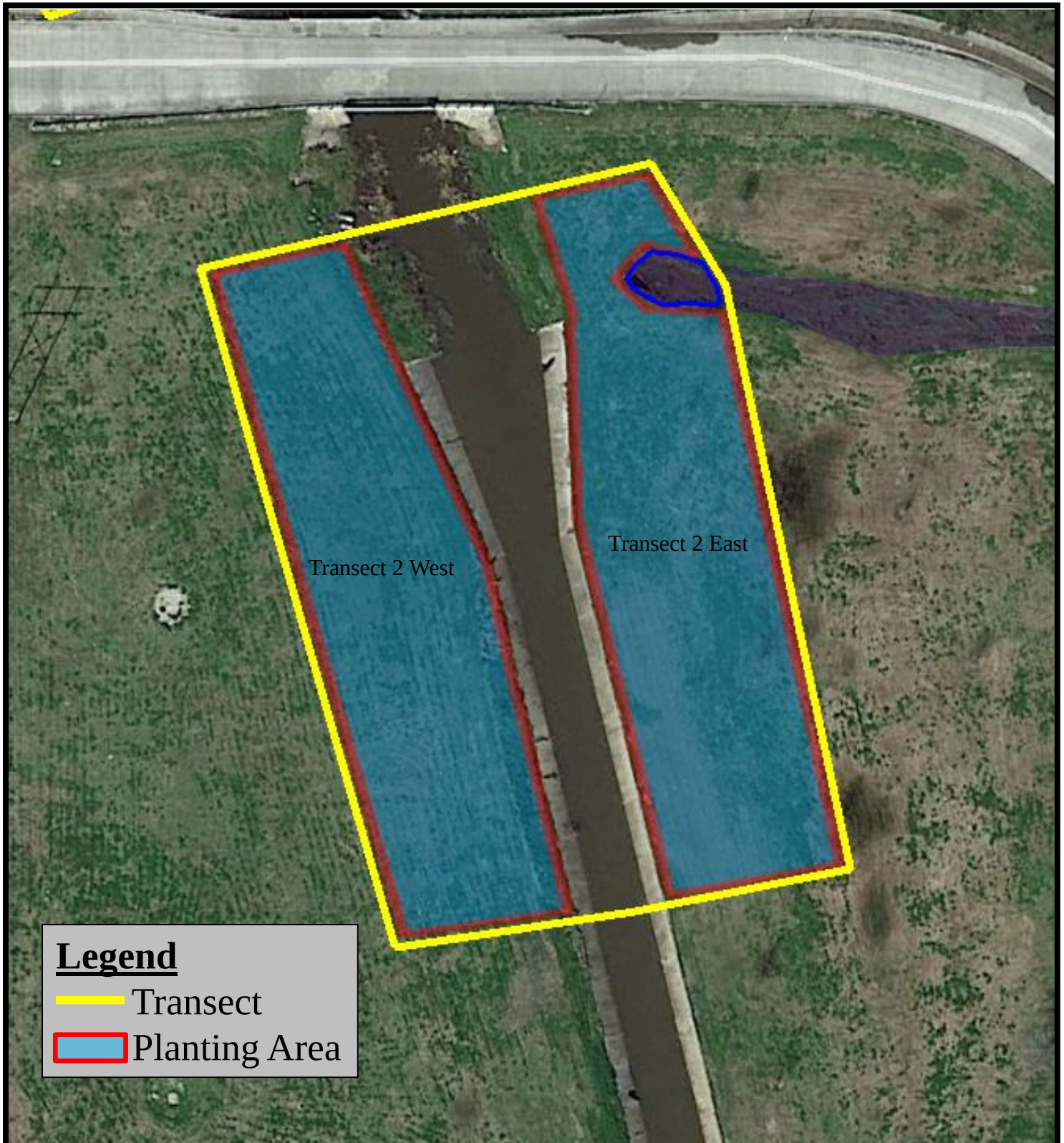


Project:
Coopers Gully
Improvements Project
Orange, Orange County, Texas

Tolunay-Wong
Engineers, Inc.

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas



Legend

Transect

Planting Area

FIGURE 7: AERIAL PHOTO TRANSECT 2
Base Map Source: Google Earth Image Date 1/24/2015

Scale 1 in. ≈ 60 ft

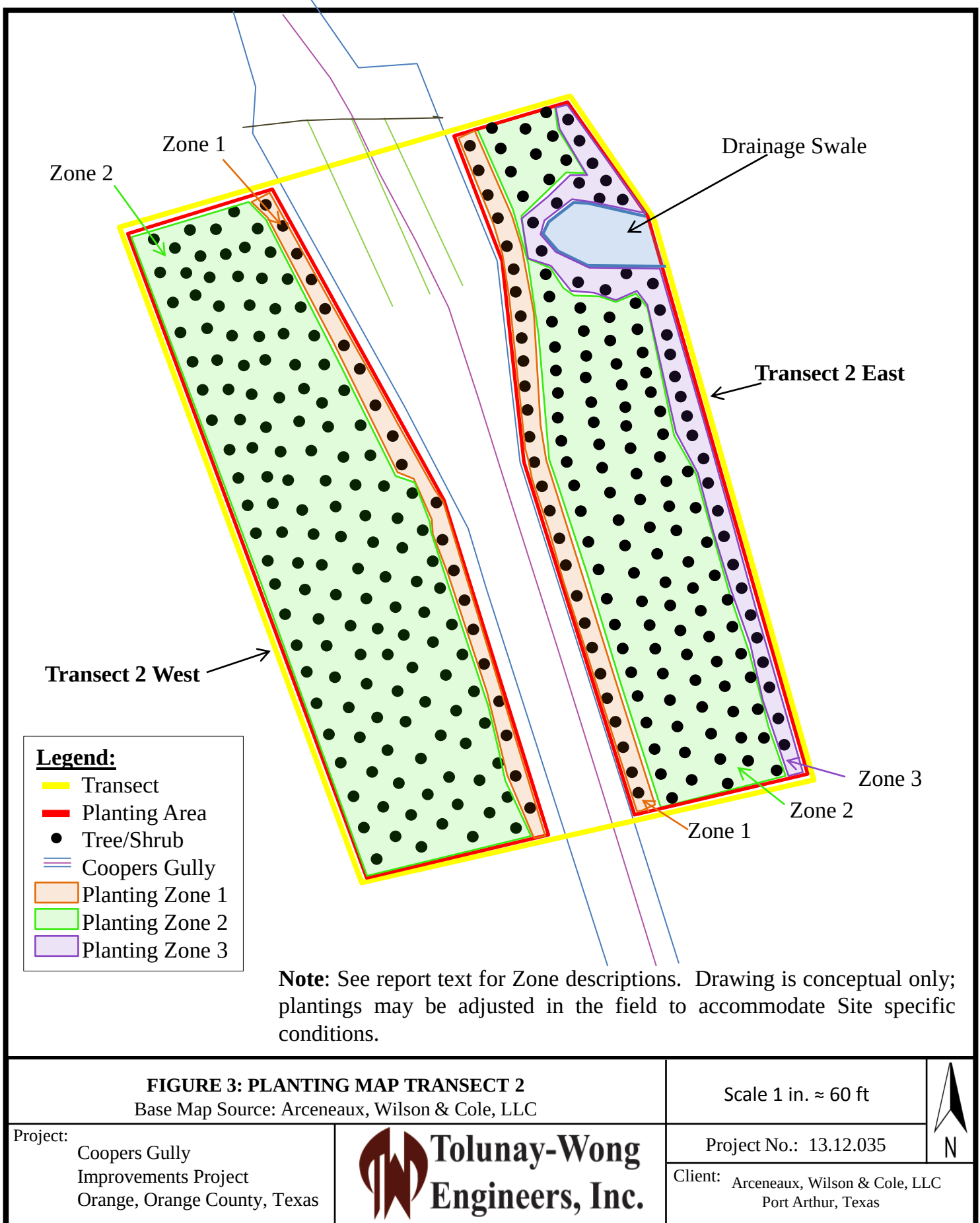


Project:
Coopers Gully
Improvements Project
Orange, Orange County, Texas

 **Tolunay-Wong
Engineers, Inc.**

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas





Legend

- Transect
- Planting Area

FIGURE 8: AERIAL PHOTO TRANSECT 3

Base Map Source: Google Earth Image Date 1/24/2015

Scale 1 in. ≈ 60 ft

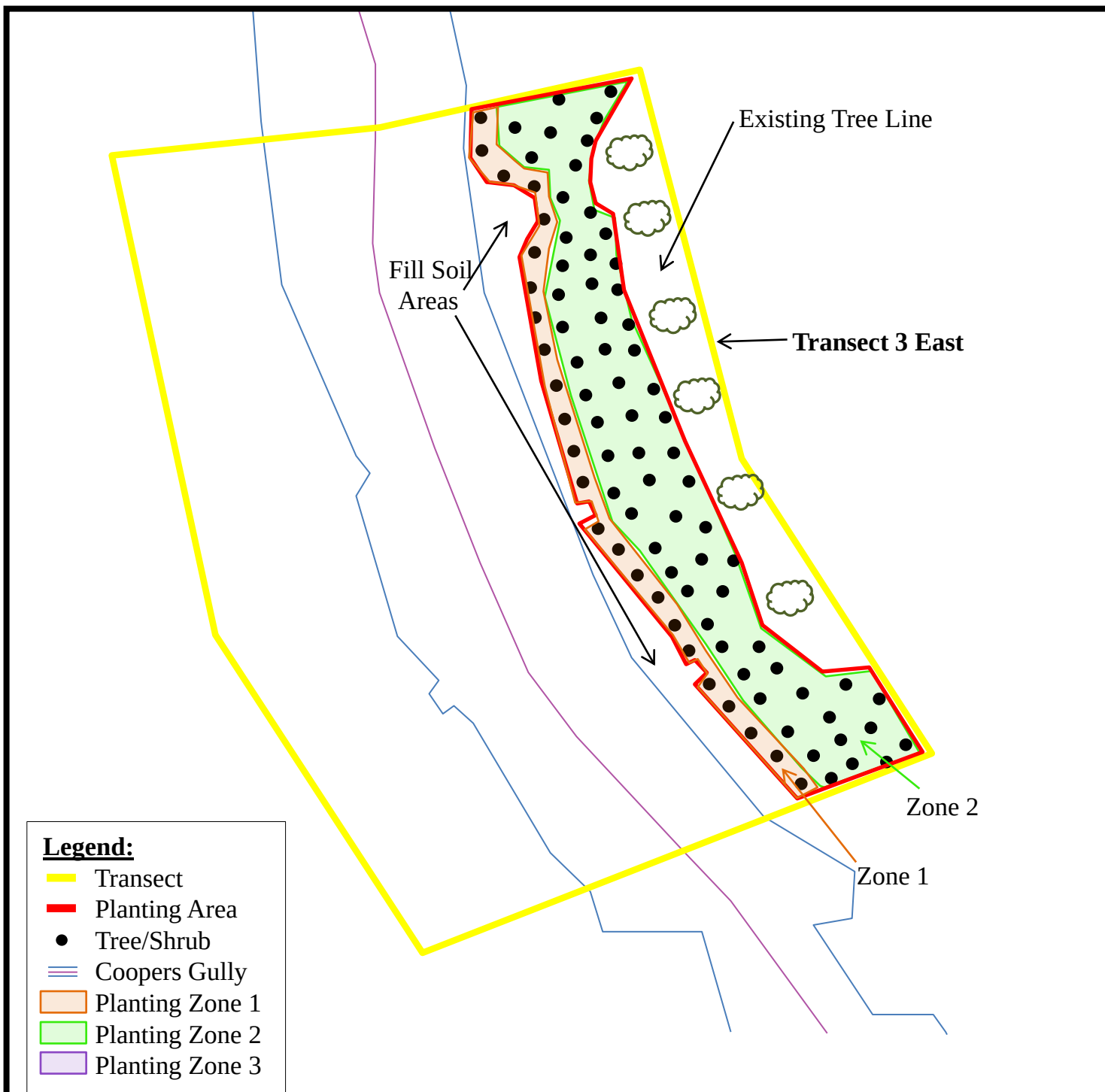


Project:
Coopers Gully
Improvements Project
Orange, Orange County, Texas

 **Tolunay-Wong
Engineers, Inc.**

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas



Note: See report text for Zone descriptions. Drawing is conceptual only; plantings may be adjusted in the field to accommodate Site specific conditions.

FIGURE 4: PLANTING MAP TRANSECT 3 Base Map Source: Arceneaux, Wilson & Cole, LLC		Scale 1 in. ≈ 60 ft	
Project: Coopers Gully Improvements Project Orange, Orange County, Texas	Tolunay-Wong Engineers, Inc.	Project No.: 13.12.035 Client: Arceneaux, Wilson & Cole, LLC Port Arthur, Texas	

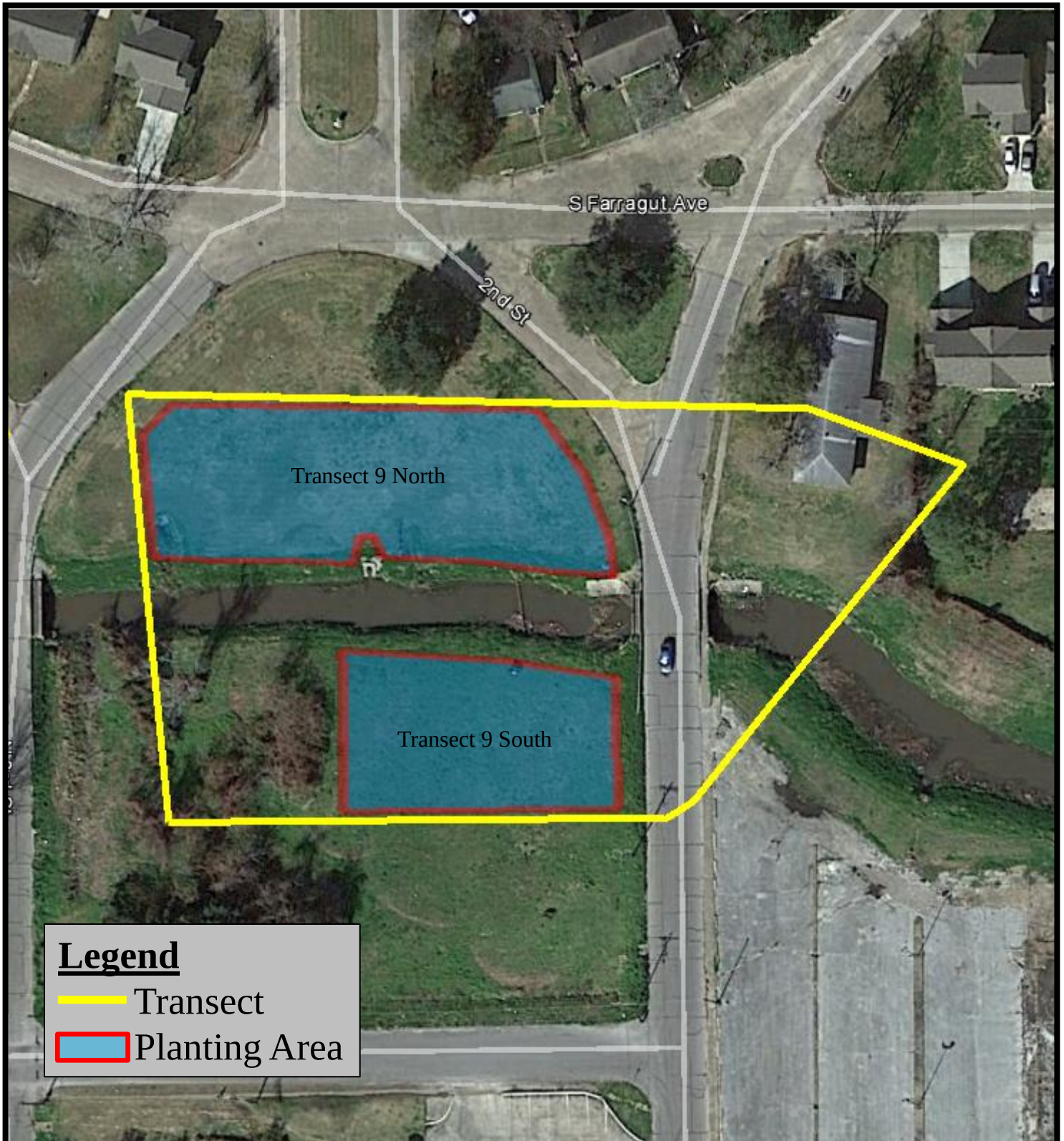


FIGURE 9: AERIAL PHOTO TRANSECT 9
Base Map Source: Google Earth Image Date 1/24/2015

Scale 1 in. ≈ 60 ft



Project:
Coopers Gully
Improvements Project
Orange, Orange County, Texas

 **Tolunay-Wong
Engineers, Inc.**

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas

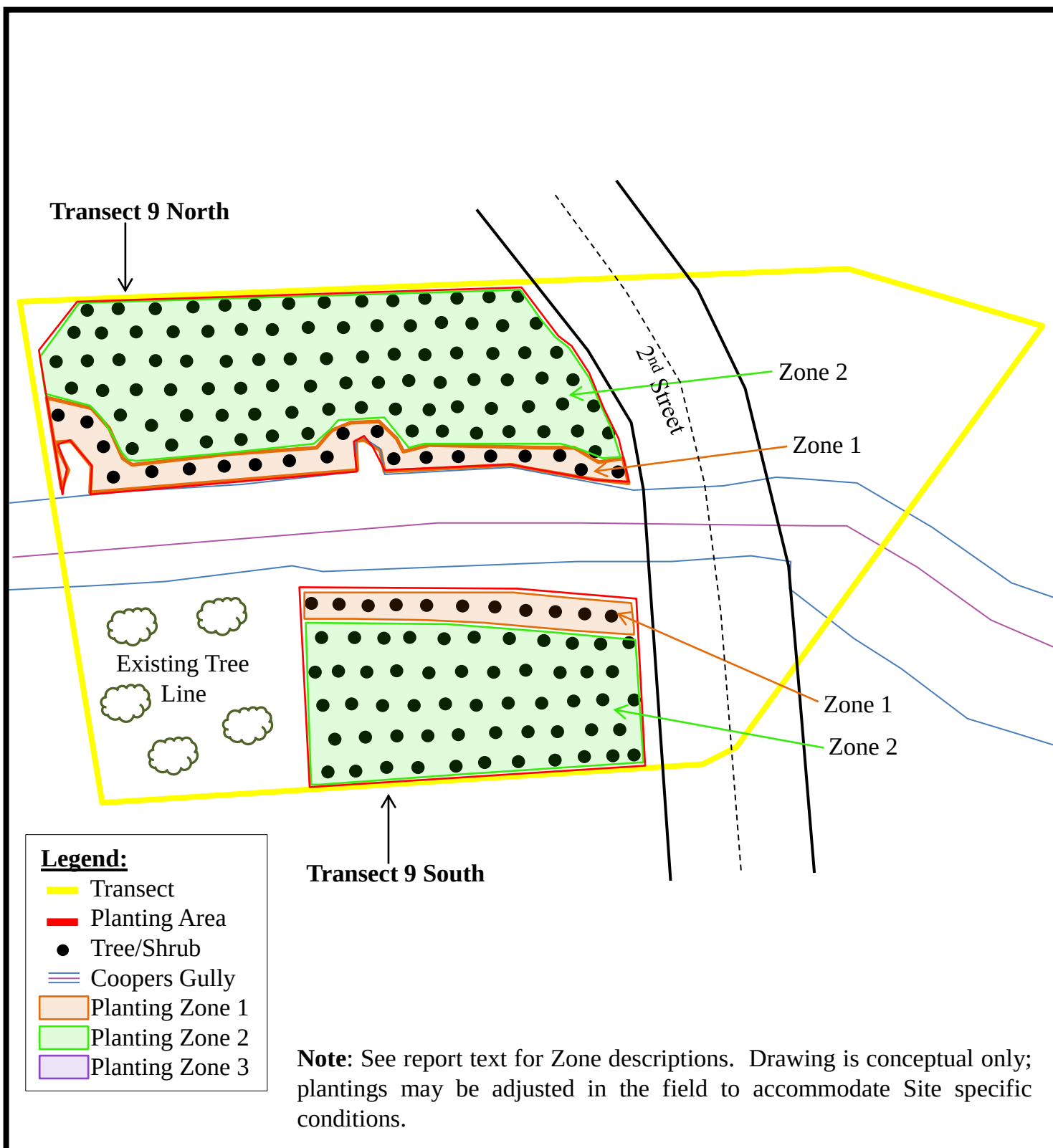


FIGURE 5: PLANTING MAP TRANSECT 9
Base Map Source: Arceneaux, Wilson & Cole, LLC

Scale 1 in. ≈ 60 ft

Project: Coopers Gully
Improvements Project
Orange, Orange County, Texas

Tolunay-Wong
Engineers, Inc.

Project No.: 13.12.035

Client: Arceneaux, Wilson & Cole, LLC
Port Arthur, Texas

