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UTILITY CONTACTS:

ELECTRIC- AMERICAN ELECTRIC POWER JUAN MARTINEZ 355 W. HIGHWAY 77 SAN BENITO, TX 78586 956-361-2053	TIME WARNER SHANE BARRITT 210-582-9631
GAS- UNION GAS JOHN BARNETT 5444 WESTHEIMER ROAD HOUSTON, TX 77050 713-989-7556	VERIZON RANDY RICHTER 504 TRI-COUNTY PARKWAY SCHERTZ, TX 78154 512-626-1382
IRRIGATION- CAMERON COUNTY IRRIGATION DISTRICT NO. 2 SONIA LAMBERT PO BOX 687 SAN BENITO, TEXAS 78586 956-399-2484	TEXAS811 (DIGTESS) 800-344-8377
WATER- MILITARY HIGHWAY WATER SUPPLY ARMANDO SALINAS JR. 4230 U.S. HIGHWAY 281 MERCEDES, TX 78570 956-565-2491	TEXAS GAS SERVICE MIKE MARTINEZ P.O. BOX 531827 HARLINGEN, TX 78553 956-578-7496
TELEPHONE/ FIBER OPTICS- VERIZON ALICIA CAVAZOS 355 W. HIGHWAY 77 SAN BENITO, TX 78586 956-421-7695	AMERICAN ELECTRIC POWER (AEP) NORBERTO MARTINEZ 355 W. HIGHWAY 77 SAN BENITO, TX 78586 956-361-2042
RIVERBEND GOLF COURSE JAN PAUSEWANG 4541 US MILITARY HWY 281 BROWNSVILLE, TX 78520 956-548-0191	U.S. BORDER PATROL (DHS) 4400 SOUTH EXPRESSWAY 281 EDINBURG, TX 78539 956-289-4800
TXDOT ARNOLD CORTEZ 1350 E. HIGHWAY 77 SAN BENITO, TX 78586 956-399-5102	BROWNSVILLE PUB JUDY ADAMS 1425 ROBINHOOD DRIVE BROWNSVILLE, TX 78523 956-983-6688
	USFWS- REFUGE AREA BRYAN WINTON 3325 GREEN JAY ROAD ALAMO, TX 78516 956-784-7521

U.S. SECTION INTERNATIONAL BOUNDARY AND WATER COMMISSION

RECOMMENDED
FOR LETTING : _____
ISELA CANAVA , P.E.
PROJECT MANAGER

DATE : _____

APPROVED
FOR LETTING : _____
JOSE ARTURO NUNEZ, P.E.
DIVISION ENGINEER, ENGINEERING SERVICES DIVISION

DATE : _____

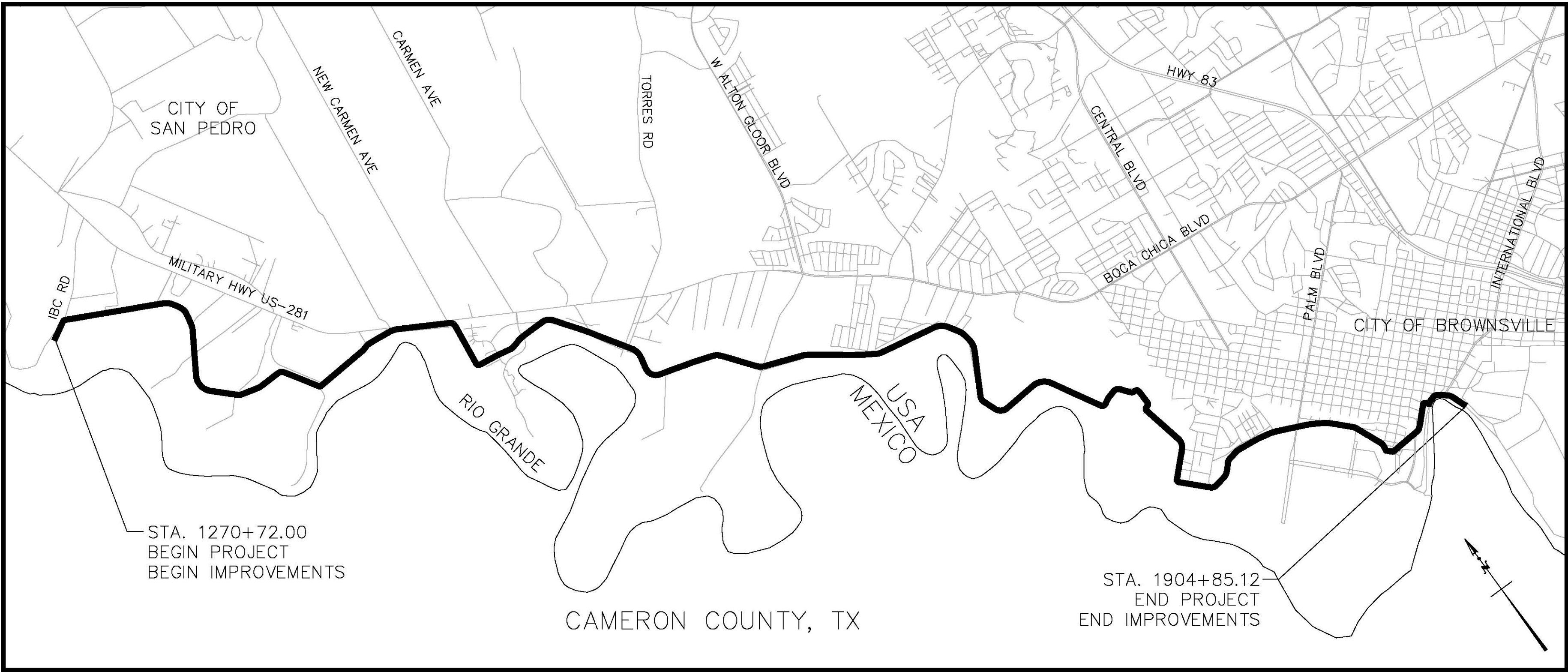
APPROVED
FOR LETTING : _____
ED DRUSINA, P.E.
COMMISSIONER

DATE : _____

INTERNATIONAL BOUNDARY AND WATER COMMISSION UNITED STATES SECTION

UPPER BROWNSVILLE LEVEE REHABILITATION CAMERON COUNTY, TEXAS

CAMERON COUNTY - FROM STA 1270+72.00 TO STA 1904+85.12



LOCATION MAP

N.T.S

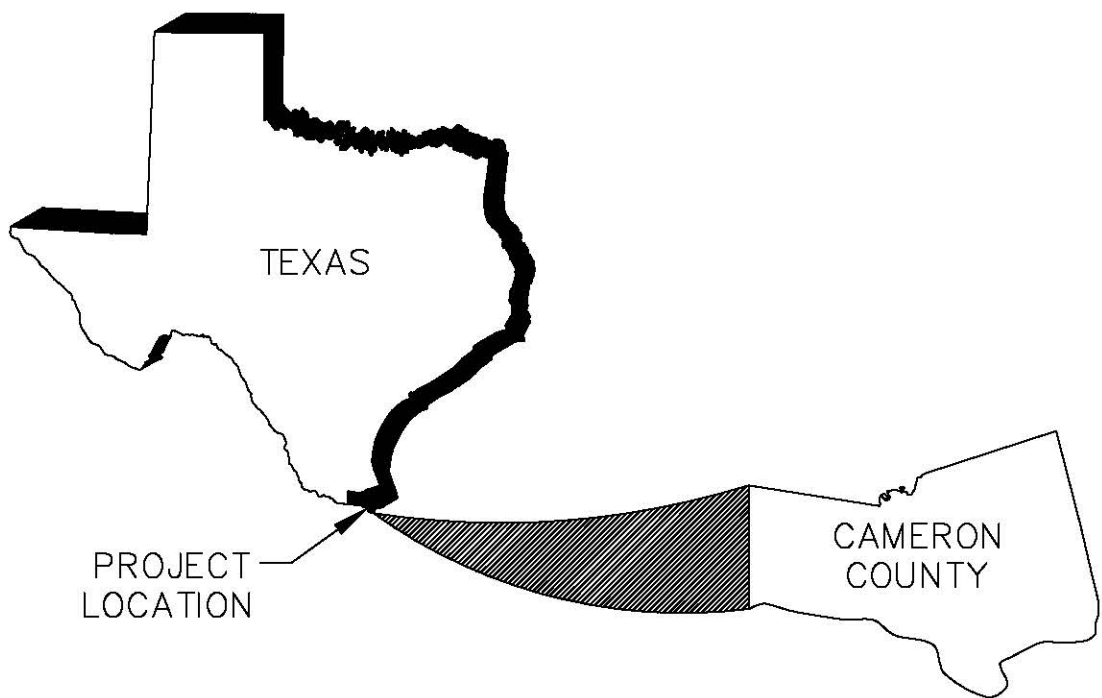
SURVEY CONTROL

HORIZONTAL CONTROL IS BASED ON TEXAS STATE PLANE SOUTH ZONE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PROJECT DESCRIPTION

THE PROJECT INCLUDES SUB-REACH #4 OF THE RIO GRANDE LEVEE BETWEEN DONNA PUMP TO BROWNSVILLE FROM STATION 1270+72.00 (N16520062.06, E1275912.87) TO 1904+85.12 (N16489164.26, E1314326.06) APPROXIMATELY 63,413.12 FEET IN CAMERON COUNTY. THE APPROXIMATE TOTAL LENGTH OF THE LEVEE REMEDIATION IS 63,413.12 FEET OR 12.01 MILES.

PRIOR TO COMMENCEMENT OF EXCAVATION WORK CONTACT TEXAS EXCAVATION SAFETY SYSTEM (TESS) 48 HOURS BEFORE DIGGING: 1-800-DIG-TESS



VICINITY MAP

N.T.S

USIBWC CONTACTS

HEADQUARTERS
ISELA CANAVA, PE
4171 NORTH MESA, SUITE C-100
EL PASO, TX 79902-1441
TEL: 915-832-4748

MERCEDES FIELD OFFICE
RODOLFO MONTERO, PE
325 GOLF COURSE RD
MERCEDES, TX 78570
TEL: 956-565-3150

SURVEYOR CONTACT

MELDEN & HUNT INC.
ROBERT TAMEZ, RPLS
115 W. MCINTYRE,
EDINBURG TX 78541
TEL: 956-381-0981

GEOTECHNICAL CONTACT

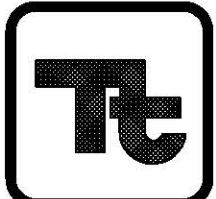
RABA KISTNER CONSULTANTS, INC.
CHRIS SCHULTZ, PE
12821 W. GOLDEN LANE
SAN ANTONIO, TX 78269
TEL: 210-699-9090

CONTRACT NO. IBM09D0006

ORDER NO. IBM11T0002



PLANS PREPARED BY:



TETRA TECH
17885 VON KARMAN AVE, SUITE 500
IRVINE, CA 92614
PHONE: (949) 809-5000
FAX: (949) 809-5010

TEXAS REGISTRATION NO. F-3924



"RECORD DRAWINGS"
PROJECT No.: IBM13C0001
DATE: 12/30/14

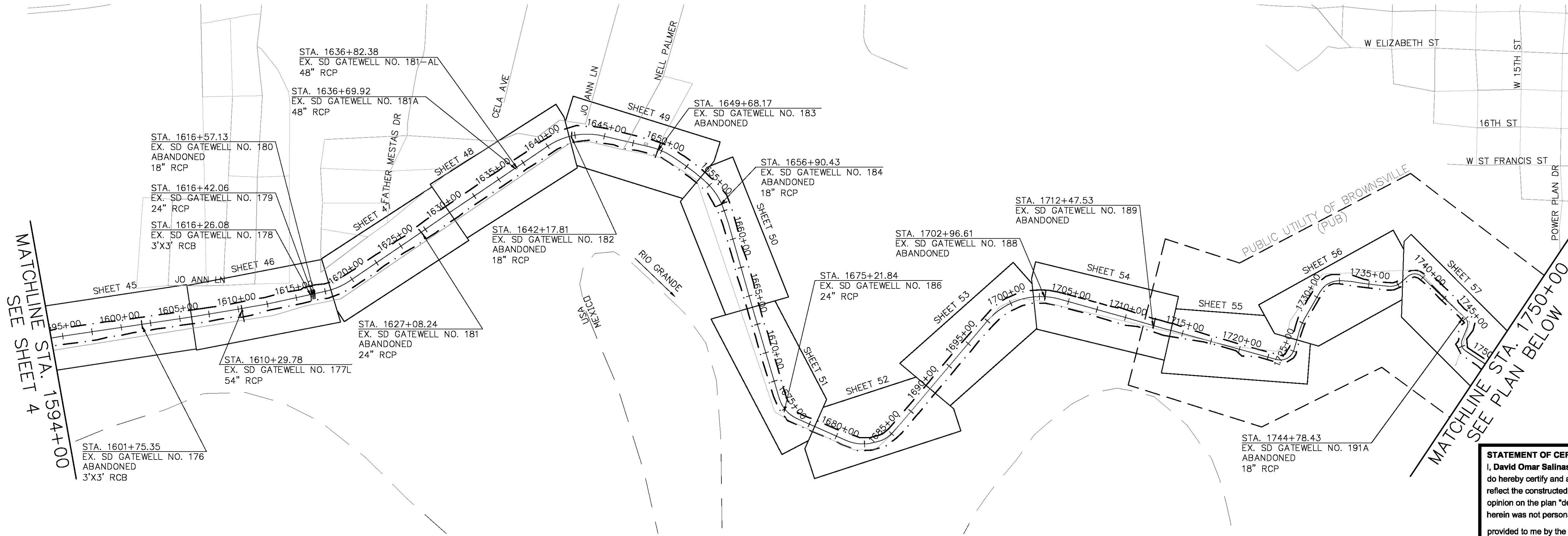
INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS

TITLE SHEET

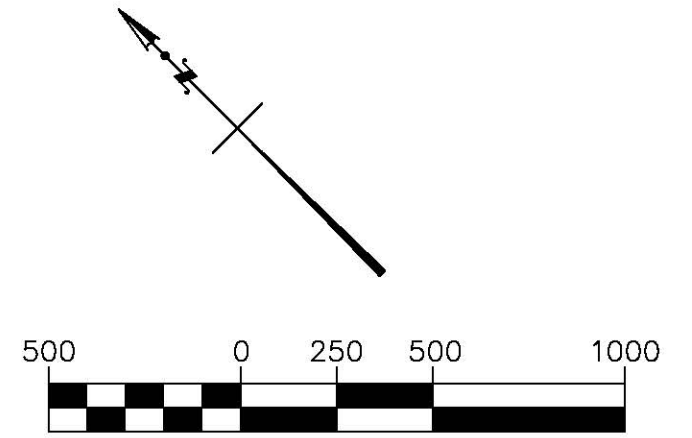
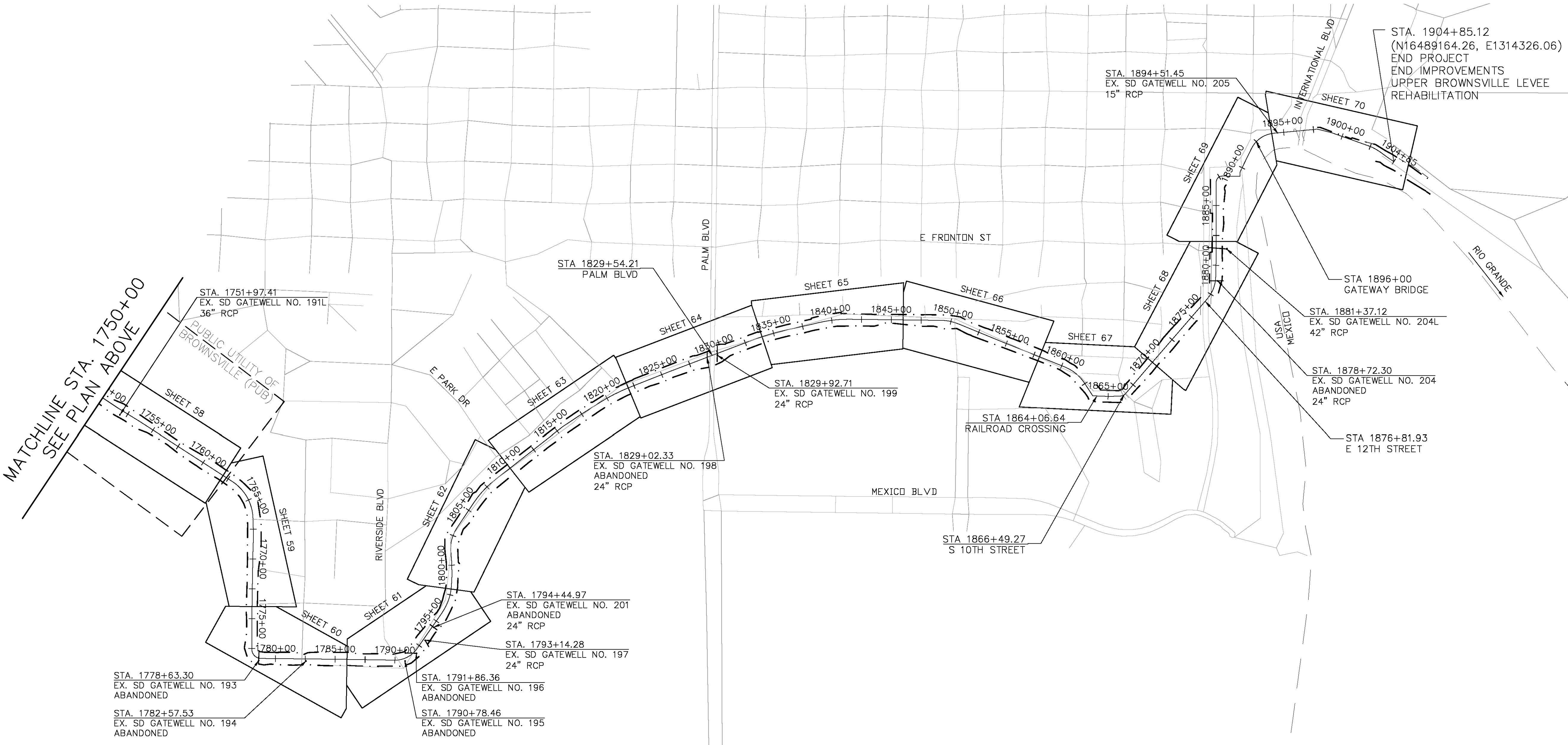
DESIGNED	EM	FILE	RECOMMENDED	IGP
DRAWN	EM		APPROVED	MAO
CHECKED	YHC, JL, AWG			

28000-000-A0

SHEET 1 OF 299



STATEMENT OF CERTIFICATION:
I, David Omar Salinas, a Registered Professional Land Surveyor, licensed to practice in the State of Texas, do hereby certify and attest that the locations, elevations, depth and comments contained herein accurately reflect the constructed field condition. This certification does not certify or otherwise comment or express an opinion on the plan "design" - by others. Furthermore, a limited amount of the As-Built information contained herein was not personally observed or witnessed by me and information of this kind and shown herein was provided to me by the Contractor and/or his staff in the form of construction plan redlines.



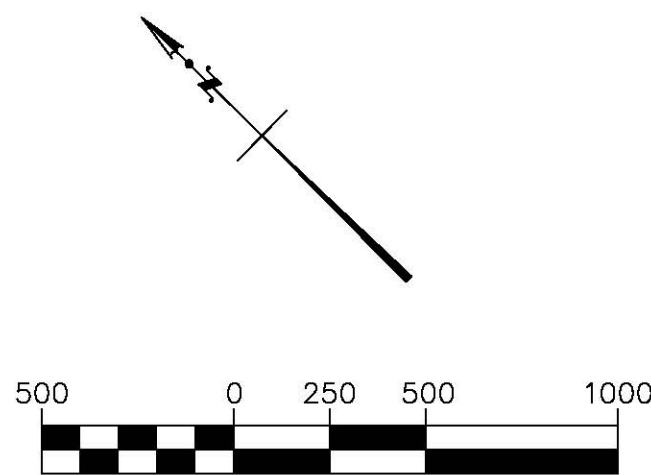
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TEXAS REGISTRATION NO. F-3924



"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
PROJECT LAYOUT (2)

DESIGNED	EM	FILE	RECOMMENDED	IGP
DRAWN	EM	CHECKED	YHC, JLL, AWG	APPROVED
CHECKED	YHC, JLL, AWG	MAO		



UPPER BROWNSVILLE LEVEE REHABILITATION – LINE TABLE									
LINE NO.	BEG. STATION	BEG. NORTHING	BEG. EASTING	END STATION	END NORTHING	END EASTING	LENGTH	BEARING	
L140	1822+30.35	16492348.13	1308477.16	1825+78.06	16492209.23	1308795.92	347.71'	S66° 27'	18.38"E
L141	1825+78.06	16492209.23	1308795.92	1828+85.65	16492083.11	1309076.47	307.59'	S65° 47'	36.65"E
L142	1828+85.65	16492083.11	1309076.47	1833+10.08	16491909.20	1309463.63	424.43'	S65° 48'	38.81"E
L143	1835+96.23	16491773.71	1309715.39	1838+24.27	16491651.56	1309907.97	228.05'	S57° 36'	47.29"E
L144	1838+24.27	16491651.56	1309907.97	1838+88.29	16491618.32	1309962.68	64.02'	S58° 43'	14.05"E
L145	1841+39.28	16491462.59	1310158.67	1849+15.68	16490907.31	1310701.32	776.41'	S44° 20'	25.07"E
L146	1850+67.08	16490781.77	1310784.31	1854+81.27	16490399.38	1310943.48	414.19'	S22° 36'	00.51"E
L147	1854+81.27	16490399.38	1310943.48	1855+88.09	16490301.57	1310986.40	106.82'	S23° 41'	26.79"E
L148	1855+88.09	16490301.57	1310986.40	1860+30.58	16489894.40	1311159.63	442.49'	S23° 02'	47.85"E
L149	1862+44.63	16489684.65	1311179.92	1863+71.93	16489560.13	1311153.47	127.30'	S11° 59'	37.37"W
L150	1863+71.93	16489560.13	1311153.47	1865+09.12	16489460.06	1311247.32	137.20'	S43° 09'	53.32"E
L151	1865+09.12	16489460.06	1311247.32	1866+07.76	16489392.65	1311319.33	98.63'	S46° 53'	17.95"E
L152	1866+49.27	16489379.30	1311357.39	1869+32.58	16489401.34	1311639.84	283.31'	N85° 32'	18.99"E
L153	1869+32.58	16489401.34	1311639.84	1875+03.28	16489441.94	1312209.09	570.70'	N85° 55'	15.16"E
L154	1875+03.28	16489441.94	1312209.09	1876+98.06	16489455.76	1312403.38	194.78'	N85° 55'	48.68"E
L155	1879+06.60	16489538.83	1312590.10	1880+68.76	16489651.27	1312706.96	162.16'	N46° 06'	07.73"E
L156	1880+68.76	16489651.27	1312706.96	1886+97.41	16490095.52	1313151.75	628.65'	N45° 02'	08.33"E
L157	1887+76.46	16490095.52	1313222.82	1889+25.10	16489988.87	1313326.78	148.64'	S44° 22'	44.00"E
L158	1889+25.10	16489988.87	1313326.78	1889+64.60	16490015.22	1313356.21	39.50'	N48° 10'	06.00"E
L159	1889+64.60	16490015.22	1313356.21	1891+79.21	16490084.81	1313559.23	214.61'	N71° 04'	46.00"E
L160	1894+17.10	16490042.89	1313782.83	1897+82.36	16489810.12	1314064.31	365.26'	S50° 24'	42.01"E
L161	1897+82.36	16489810.12	1314064.31	1899+01.54	16489708.01	1314125.77	119.18'	S31° 02'	41.59"E
L162	1899+01.54	16489708.01	1314125.77	1902+32.06	16489409.61	1314267.89	330.52'	S25° 27'	59.91"E
L163	1903+45.75	16489301.44	1314301.63	1904+31.93	16489216.36	1314315.38	86.18'	S9° 10'	54.10"E
L164	1904+31.93	16489216.36	1314315.38	1904+85.12	16489164.26	1314326.06	53.18'	S11° 34'	46.69"E

UPPER BROWNSVILLE LEVEE REHABILITATION – CURVE TABLE										
CURVE NO.	BEG. STATION	BEG. NORTHING	BEG. EASTING	END. STATION	END. NORTHING	END. EASTING	LENGTH	RADIUS	DELTA	TANGENT LENGTH
C41	1819+07.55	16492447.40	1308170.55	1822+30.35	16492348.13	1308477.16	322.803'	1650.00	11° 12' 33"	161.92'
C42	1833+10.08	16491909.20	1309463.63	1835+96.23	16491773.71	1309715.39	286.152'	2000.00	8° 11' 52"	143.32'
C44	1849+15.68	16490907.31	1310701.32	1850+67.08	16490781.77	1310784.31	151.395'	399.00	21° 44' 25"	76.62'
C45	1860+30.58	16489894.40	1311159.63	1862+44.63	16489684.65	1311179.92	214.049'	350.00	35° 02' 25"	110.49'
C46	1866+07.76	16489392.65	1311319.33	1866+49.27	16489379.30	1311357.39	41.515'	50.00	47° 34' 23"	22.04'
C47	1876+98.06	16489455.76	1312403.38	1879+06.60	16489538.83	1312590.10	208.539'	300.00	39° 49' 41"	108.68'
C48	1886+97.41	16490095.52	1313151.75	1887+76.46	16490095.11	1313222.82	79.051'	50.00	90° 35' 08"	50.51'
C49	1891+79.21	16490084.81	1313559.23	1894+17.10	16490042.89	1313782.83	237.896'	230.72	59° 04' 40"	130.74'
C50	1902+32.06	16489409.61	1314267.89	1903+45.75	16489301.44	1314301.63	113.690'	400.00	16° 17' 06"	57.23'

"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

PLANS PREPARED BY:

TETRA TECH
17885 VON KARMAN AVE, SUITE 500
IRVINE, CA 92614
PHONE: (949) 809-5000
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TEXAS REGISTRATION NO. F-3924

ROBERT J. MIZE
6238
PROFESSIONAL
MECHANICAL ENGINEERING
STATE OF TEXAS

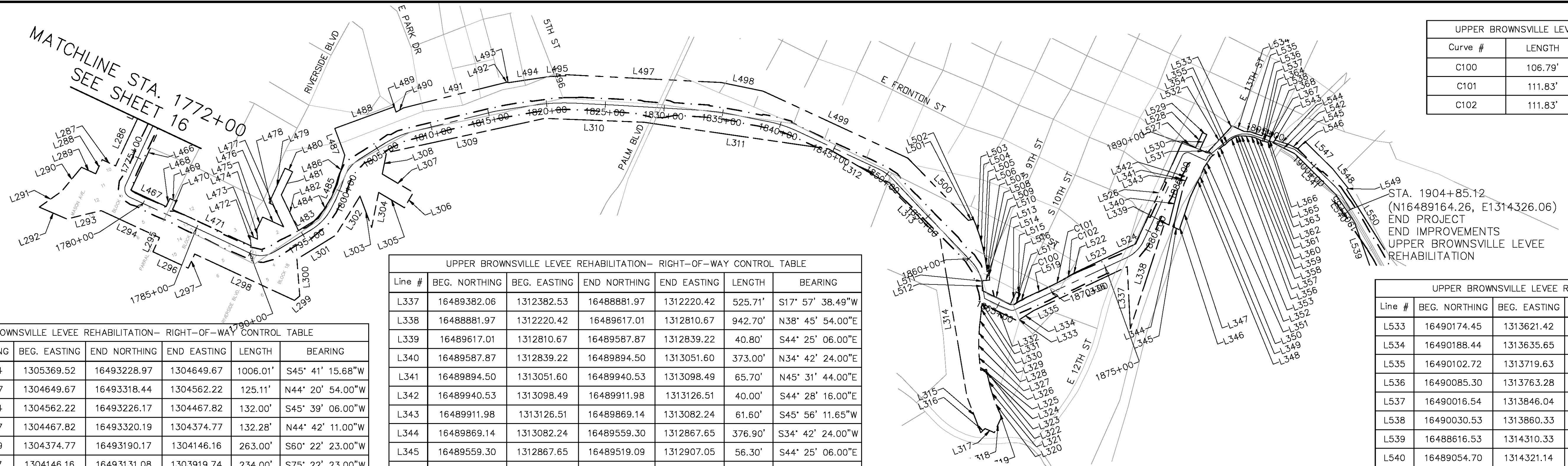
MELDEN & HUNT, INC.
CONSULTANTS • ENGINEERS • SURVEYORS

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
SURVEY CONTROL (4)

DESIGNED	EM	FILE
DRAWN	EM	RECOMMENDED
CHECKED	YHC, JLL, AWG	APPROVED

28012-000-A0

SHEET 13 OF 299



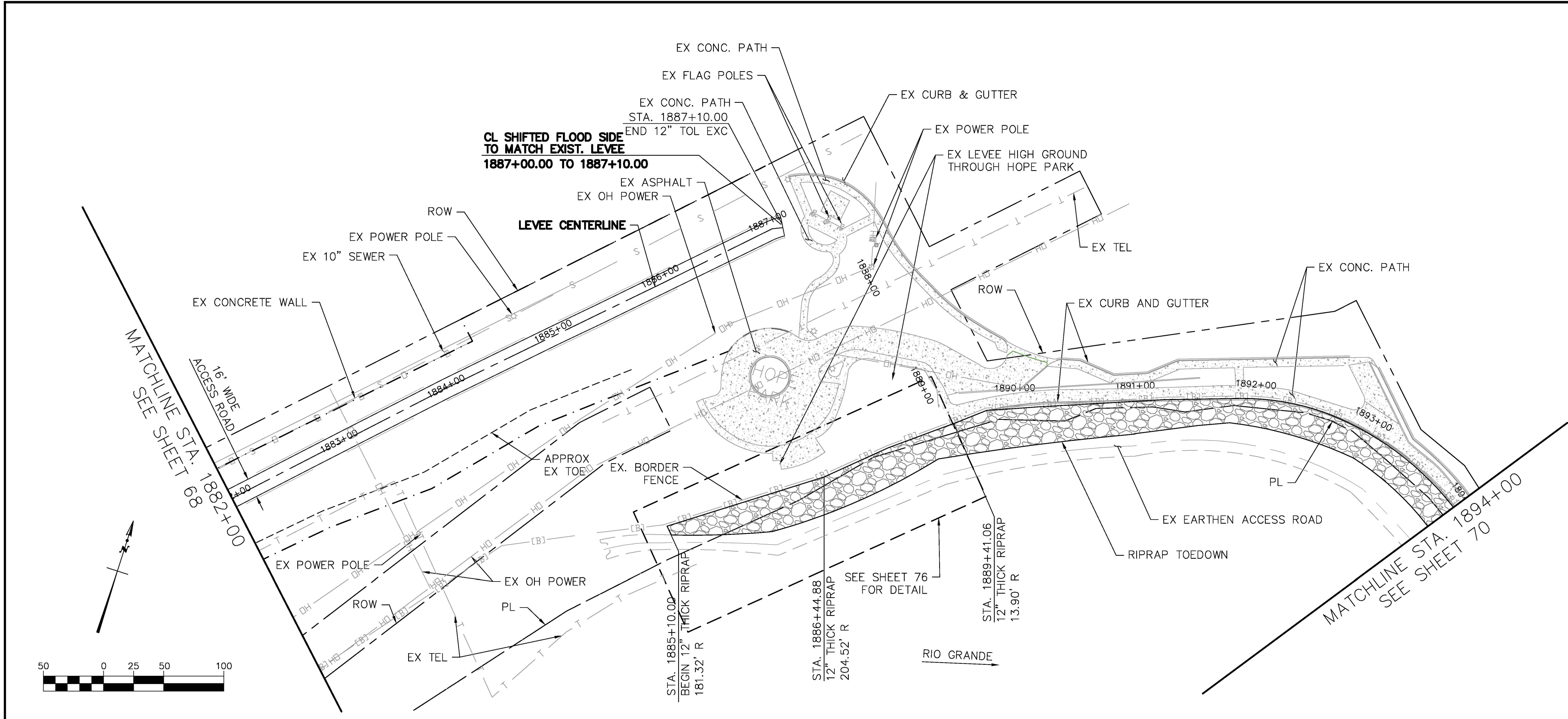
UPPER BROWNSVILLE LEVEE REHABILITATION - RIGHT-OF-WAY CONTROL TABLE				
Curve #	LENGTH	RADIUS	DELTA	TANGENT
C100	106.79'	738.16	8' 17" 20"	53.49'
C101	111.83'	1573.65	4' 04" 20"	55.94'
C102	111.83'	1573.65	4' 04" 20"	55.94'

UPPER BROWNSVILLE LEVEE REHABILITATION- RIGHT-OF-WAY CONTROL TABLE						
Line #	BEG. NORTHING	BEG. EASTING	END NORTHING	END EASTING	LENGTH	BEARING
L286	16493931.74	1305369.52	16493228.97	1304649.67	1006.01'	S45° 41' 15.68"W
L287	16493228.97	1304649.67	16493318.44	1304562.22	125.11'	N44° 20' 54.00"W
L288	16493318.44	1304562.22	16493226.17	1304467.82	132.00'	S45° 39' 06.00"W
L289	16493226.17	1304467.82	16493320.19	1304374.77	132.28'	N44° 42' 11.00"W
L290	16493320.19	1304374.77	16493190.17	1304146.16	263.00'	S60° 22' 23.00"W
L291	16493190.17	1304146.16	16493131.08	1303919.74	234.00'	S75° 22' 23.00"W
L292	16493131.08	1303919.74	16492954.10	1304103.18	254.90'	S46° 01' 37.00"E
L293	16492954.10	1304103.18	16492916.89	1304400.97	300.10'	S82° 52' 37.00"E
L294	16492916.89	1304400.97	16492526.69	1304782.30	545.59'	S44° 20' 29.71"E
L295	16492526.69	1304782.30	16492434.48	1304687.94	131.94'	S45° 39' 40.22"W
L296	16492434.48	1304687.94	16492198.50	1304918.61	330.00'	S44° 20' 54.00"E
L297	16492198.50	1304918.61	16492290.71	1305012.98	131.94'	N45° 39' 40.22"E
L298	16492290.71	1305012.98	16491622.58	1305665.40	933.84'	S44° 19' 07.08"E
L299	16491622.58	1305665.40	16491641.22	1305720.75	58.40'	N71° 23' 36.00"E
L300	16491641.22	1305720.75	16491942.22	1305809.09	313.70'	N16° 21' 25.50"E
L301	16491942.22	1305809.09	16492015.06	1306187.55	385.40'	N79° 06' 24.00"E
L302	16492015.06	1306187.55	16492252.42	1306500.15	392.50'	N52° 47' 24.00"E
L303	16492252.42	1306500.15	16491968.90	1306498.59	283.52'	S0° 18' 54.00"W
L304	16491968.90	1306498.59	16492226.01	1306659.12	303.11'	N31° 58' 46.62"E
L305	16492226.01	1306659.12	16492027.55	1306817.80	254.10'	S38° 38' 36.00"E
L306	16492027.55	1306817.80	16492121.22	1306934.96	150.00'	N51° 21' 24.00"E
L307	16492121.22	1306934.96	16492360.84	1306743.37	306.80'	N38° 38' 36.00"W
L308	16492360.84	1306743.37	16492517.58	1306841.27	184.80'	N31° 59' 23.99"E
L309	16492517.58	1306841.27	16492314.05	1308202.03	1375.90'	S81° 29' 36.00"E
L310	16492314.05	1308202.03	16491984.08	1308978.53	843.70'	S66° 58' 36.00"E
L311	16491984.08	1308978.53	16491215.60	1310365.46	1585.60'	S61° 00' 36.00"E
L312	16491215.60	1310365.46	16490799.38	1310704.44	536.80'	S39° 09' 36.00"E
L313	16490799.38	1310704.44	16490167.92	1310980.29	689.07'	S23° 35' 50.92"E
L314	16490167.92	1310980.29	16488832.07	1310717.59	1361.43'	S11° 07' 30.69"W
L315	16488832.07	1310717.59	16488506.28	1310719.31	325.80'	S0° 18' 06.00"E
L316	16488506.28	1310719.31	16488525.51	1310765.46	50.00'	N67° 22' 24.00"E
L317	16488525.51	1310765.46	16488465.19	1310826.76	86.00'	S45° 27' 36.00"E
L318	16488465.19	1310826.76	16488568.69	1310932.41	147.90'	N45° 35' 24.00"E
L319	16488568.69	1310932.41	16488630.24	1310926.90	61.80'	N5° 06' 36.00"W
L320	16488630.24	1310926.90	16488733.23	1310924.97	103.00'	N1° 04' 36.00"W
L321	16488733.23	1310924.97	16488835.81	1310931.62	102.80'	N3° 42' 24.00"E
L322	16488835.81	1310931.62	16488937.78	1310944.63	102.80'	N7° 16' 24.00"E
L323	16488937.78	1310944.63	16488990.70	1310955.88	54.10'	N12° 00' 24.00"E
L324	16488990.70	1310955.88	16489001.10	1310906.98	50.00'	N77° 59' 36.00"W
L325	16489001.10	1310906.98	16489050.50	1310917.48	50.50'	N12° 00' 24.00"E
L326	16489050.50	1310917.48	16489153.15	1310946.59	106.70'	N15° 49' 54.00"E
L327	16489153.15	1310946.59	16489253.29	1310983.72	106.80'	N20° 20' 24.00"E
L328	16489253.29	1310983.72	16489349.40	1311027.46	105.60'	N24° 28' 24.00"E
L329	16489349.40	1311027.46	16489439.56	1311074.08	101.50'	N27° 20' 24.00"E
L330	16489439.56	1311074.08	16489525.87	1311116.81	96.30'	N26° 20' 24.00"E
L331	16489525.87	1311116.81	16489526.96	1311117.27	1.19'	N22° 45' 24.00"E
L332	16489526.96	1311117.27	16489282.43	1311347.29	335.71'	S43° 14' 56.00"E
L333	16489282.43	1311347.29	16489315.62	1311505.08	160.32'	N78° 10' 04.30"E
L334	16489282.43	1311347.29	16489315.62	1311505.08	160.32'	N78° 10' 04.30"E
L335	16489315.62	1311505.08	16489332.38	1311729.00	224.54'	N85° 43' 06.27"E
L336	16489332.38	1311729.00	16489382.06	1312382.53	655.41'	N85° 39' 11.69"E

UPPER BROWNSVILLE LEVEE REHABILITATION- RIGHT-OF-WAY CONTROL TABLE						
Line #	BEG. NORTHING	BEG. EASTING	END NORTHING	END EASTING	LENGTH	BEARING
L337	16489382.06	1312382.53	16488881.97	1312220.42	525.71'	S17° 57' 38.49"W
L338	16488881.97	1312220.42	16489617.01	1312810.67	942.70'	N38° 45' 54.00"E
L339	16489617.01	1312810.67	16489587.87	1312839.22	40.80'	S44° 25' 06.00"E
L340	16489587.87	1312839.22	16489894.50	1313051.60	373.00'	N34° 42' 24.00"E
L341	16489894.50	1313051.60	16489940.53	1313098.49	65.70'	N45° 31' 44.00"E
L342	16489940.53	1313098.49	16489911.98	1313126.51	40.00'	S44° 28' 16.00"E
L343	16489911.98	1313126.51	16489869.14	1313082.24	61.60'	S45° 56' 11.65"W
L344	16489869.14	1313082.24	16489559.30	1312867.65	376.90'	S34° 42' 24.00"W
L345	16489559.30	1312867.65	16489519.09	1312907.05	56.30'	S44° 25' 06.00"E
L346	16489742.53	1313089.55	16489519.09	1312907.05	288.50'	S39° 14' 24.00"W
L347	16489742.53	1313089.55	16489519.09	1312907.05	288.50'	S39° 14' 24.00"W
L348	16489888.36	1313244.73	16489809.31	1313157.12	118.00'	S47° 56' 24.00"W
L349	16489888.36	1313244.73	16489809.31	1313157.12	118.00'	S47° 56' 24.00"W
L350	16489941.66	1313293.13	16489888.36	1313244.73	72.00'	S42° 14' 24.00"W
L351	16490003.59	1313382.79	16489941.66	1313293.13	108.97'	S55° 22' 08.98"W
L352	16490036.96	1313457.10	16490019.04	1313435.58	28.00'	S50° 12' 24.00"W
L353	16490036.96	1313457.10	16490052.51	1313501.45	47.00'	N70° 40' 24.00"E
L354	16490052.51	1313501.45	16490056.71	1313528.12	27.00'	N81° 03' 24.00"E
L355	16490056.71	1313528.12	16490074.16	1313565.22	41.00'	N64° 48' 24.00"E
L356	16490074.16	1313565.22	16490086.65	1313623.91	60.00'	N77° 59' 24.00"E
L357	16490086.65	1313623.91	16490086.65	1313645.90	22.00'	N89° 29' 24.00"E
L358	16490086.65	1313645.90	16490084.05	1313665.71	20.00'	S81° 58' 36.00"E
L359	16490084.05	1313665.71	16490070.29	1313698.97	36.00'	S67° 31' 36.00"E
L360	16490070.29	1313698.97	16490050.81	1313742.85	48.00'	S66° 03' 36.00"E
L361	16490050.81	1313742.85	16490028.00	1313778.82	42.60'	S57° 37' 36.00"E
L362	16490028.00	1313778.82	16489998.05	1313808.83	42.40'	S45° 02' 36.00"E
L363	16489998.05	1313808.83	16489981.42	1313824.72	23.00'	S43° 42' 36.00"E
L364	16489981.42	1313824.72	16489950.91	1313866.83	52.00'	S54° 04' 36.00"E
L365	16489950.91	1313866.83	16489947.41	1313882.24	15.80'	S77° 12' 36.00"E
L366	16489947.41	1313882.24	16489969.49	1313904.74	31.50'	N45° 35' 24.00"E
L367	16489969.49	1313904.74	16489972.31	1313901.94	4.00'	N44° 24' 36.00"W
L368	16489972.31	1313901.94	16489980.01	1313909.80	11.00'	N45° 35' 24.00"E

UPPER BROWNSVILLE LEVEE REHABILITATION- RIGHT-OF-WAY CONTROL TABLE						
Line #	BEG. NORTHING	BEG. EASTING	END NORTHING	END EASTING	LENGTH	BEARING
L466	16493755.96	1305482.98	16492990.35	1304698.71	1096.00'	S45° 41' 22.50"W
L467	16492990.35	1304698.71	16492754.22	1304929.23	330.00'	S44° 18' 37.00"E
L468	16492754.22	1304929.23	16492806.63	1304982.81	74.95'	N45° 37' 48.68"E
L469	16492806.63	1304982.81	16492763.72	1305024.75	60.00'	S44° 20' 54.00"E
L470	16492763.72	1305024.75	16492711.29	1304971.12	75.00'	S45° 39' 06.00"W
L471	16492711.29	1304971.12	16492186.19	1305484.41	734.30'	S44° 20' 54.00"E
L472	16492186.19	1305484.41	16492268.09	1305508.48	85.36'	N16° 22' 57.77"E
L473	16492268.09	1305508.48	16492218.89	1305556.58	68.80'	S44° 20' 54.00"E
L474	16492218.89	1305556.58	16492298.95	1305579.96	83.40'	N16° 17' 06.00"E
L475	16492298.95	1305579.96	16492380.24	1305663.13	116.30'	N45° 39' 06.00"E
L476	16492380.24	1305663.13	16492239.74	1305800.47	196.47'	S44° 20' 54.00"E
L477	16492239.74	1305800.47	16492446.06	1305782.59	207.09'	N4° 57' 06.00"W
L478	16492446.06	1305782.59	16492472.33	1305756.82	36.80'	N44° 27' 36.00"W
L479	16492472.33	1305756.82	16492699.53	1305988.38	324.41'	N45° 32' 40.70"E
L480	16492699.53	1305988.38	16492649.07	1306037.90	70.70'	S44° 27' 36.00"E
L481	16492649.07	1306037.90	16492499.70	1305878.57	218.40'	S46° 50' 54.00"W
L482	16492499.70	1305878.57	16492164.85	1305907.58	336.10'	S4° 57' 06.00"E
L483	16492164.85	1305907.58	16492202.57	1306103.58	199.60'	N79° 06' 24.00"E
L484	16492202.57	1306103.58	16492326.97	1306267.41	205.70'	N52° 47' 24.00"E
L485	16492326.97	1306267.41	16492415.51	1306355.92	125.20'	N44° 59' 24.00"E

UPPER BROWNSVILLE LEVEE REHABILITATION-- RIGHT-OF-WAY CONTROL TABLE						
Line #	BEG. NORTHING	BEG. EASTING	END NORTHING	END EASTING	LENGTH	BEARING
L486	16492415.51	1306355.92	16492623.12	1306502.18	253.96'	N35° 09' 54.00"E
L487	16492623.12	1306502.18	16492865.89	1306503.52	242.77'	N0° 18' 54.00"E
L488	16492865.89	1306503.52	16492859.72	1307041.98	538.50'	S89° 20' 36.00"E
L489	16492859.72	1307041.98	16492811.20	1307038.46	48.64'	S4° 09' 09.11"W
L490	16492811.20	1307038.46	16492823.01	1307110.09	72.60'	N80° 38' 24.00"E
L491	16492823.01	1307110.09	16492716.48	1307999.34	895.60'	S83° 10' 06.00"
L492	16492716.48	1307999.34	16492712.12	1308019.27	20.40'	S77° 40' 36.00"E
L493	16492712.12	1308019.27	16492707.14	1308018.86	5.00'	S4° 36' 54.00"W
L494	16492707.14	1308018.86	16492631.49	1308365.61	354.90'	S77° 41' 36.00"E
L495	16492631.49	1308365.61	16492589.21	1308497.71	138.70'	S72° 15' 06.00"E
L496	16492589.21	1308497.71	16492598.91	1308497.50	9.70'	N1° 14' 36.00"W
L497	16492598.91	1308497.50	16492066.55	1309712.27	1326.30'	S66° 20' 06.00"E
L498	16492066.55	1309712.27	16491872.90	1310018.11	362.00'	S57° 39' 36.00"E
L499	16491872.90	1310018.11	16490904.81	1310966.47	1355.20'	S44° 24' 36.00"E
L500	16490904.81	1310966.47	16490228.75	1311259.40	736.80'	S23° 25' 36.00"E
L501	16490228.75	1311259.40	16490222.86	1311304.11	45.10'	S82° 29' 36.00"E
L502	16490222.86	1311304.11	16490166.88	1311305.66	56.00'	S1° 35' 06.00"E
L503	16490166.88	1311305.66	16490069.43	1311302.40	97.50'	S1° 54' 54.00"W
L504	16490069.43	1311302.40	16489971.56	1311293.23	98.30'	S5° 21' 24.00"W
L505	16489971.56	1311293.23	16489875.69	1311279.15	96.90'	S8° 21' 24.00"W
L506	16489875.69	1311279.15	16489780.59	1311258.57	97.30'	S12° 12' 24.00"W
L507	16489780.59	1311258.57	16489765.57	1311254.35	15.60'	S15° 41' 54.00"W
L508	16489765.57	1311254.35	16489767.92	1311270.47	16.29'	N81° 42' 29.50"E
L509	16489767.92	1311270.47	16489690.90	1311248.83	80.00'	S15° 41' 54.00"W
L510	16489690.90	1311248.83	16489708.49	1311186.25	65.00'	N74° 18' 06.00"W
L511	16489708.49	1311186.25	16489701.85	1311184.38	6.90'	S15° 41' 54.00"W
L512	16489701.85	1311184.38	16489628.72	1311158.83	77.42'	S19° 15' 24.00"W
L513	16489628.72	1311158.83	16489435.39	1311340.69	265.47'	S43° 14' 56.00"E
L514	16489435.39	1311340.69	16489516.71	1311423.51	116.07'	N45° 31' 37.09"E
L515	16489516.71	1311423.51	16489488.15	1311451.52	40.00'	S44° 27' 06.00"E
L516	16489488.15	1311451.52	16489427.63	1311389.80	86.44'	S45° 33' 57.22"W
L517	16489427.63	1311389.80	16489427.67	1311389.98	0.19'	N77° 25' 17.48"E
L519	16489443.31	1311495.52	16489459.73	1311719.42	224.50'	N85° 48' 24.08"E
L522	16489492.19	1311940.52	16489492.21	1311940.61	0.09'	N77° 34' 22.39"E
L523	16489492.21	1311940.61	16489529.81	1312413.37	474.25'	N85° 27' 11.47"E
L524	16489529.81	1312413.37	16489537.42	1312515.59	102.50'	N85° 44' 38.54"E
L526	16489537.42	1312515.59	16490209.22	1313198.98	958.30'	N45° 29' 24.00"E
L527	16490209.22	1313198.98	16490122.70	1313284.00	121.30'	S44° 30' 06.00"E
L528	16490122.70	1313284.00	16490220.78	1313383.91	140.00'	N45° 31' 44.00"E
L529	16490220.78	1313383.91	16490192.23	1313411.93	40.00'	S44° 28' 16.00"E
L530	16490192.23	1313411.93	16490094.16	1313312.03	140.00'	S45° 31' 44.00"W
L531	16490094.16	1313312.03	16490046.97	1313358.83	66.46'	S44° 45' 39.44"E
L532	16490046.97	1313358.83	16490174.45	1313621.42	291.90'	N64° 06' 18.00"E



STATEMENT OF CERTIFICATION:
I, David Omar Salinas, a Registered Professional Land Surveyor, licensed to practice in the State of Texas, do hereby certify and attest that the locations, elevations, depth and comments contained herein accurately reflect the constructed field condition. This certification does not certify or otherwise comment or express an opinion on the plan "design" - by others. Furthermore, a limited amount of the As-Built information contained herein was not personally observed or witnessed by me and information of this kind and shown herein was provided to me by the Contractor and/or his staff in the form of construction plan redlines.

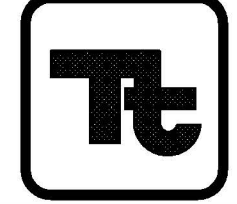


"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

QUANTITY TABLE (REFER TO GENERAL NOTE #46 SHT 2)

QTY	ITEM	DESC CODE	DESCRIPTION	UNIT	EST.	FIN.
01	51	00	CONS. EXITS/ENTRANCES	EA	0	
01	57	00	TEMP. SED. CONTROL SILT FENCE	LF	1,108	
02	91	00	REMOVE & REPLACE EX. FENCE	LF	0	
02	91	00	REMOVE & REPLACE EX. WIRE GATE	EA	0	
02	91	00	REMOVE & REPLACE EX. 9' HT GATE	EA	0	
31	11	00	PREPARING RIGHT OF WAY	STA	12	
31	92	00	VEG. FOR EROSION CONTROL (TEMP.)	SY	3,817	
31	92	00	VEG. FOR EROSION CONTROL (PERM.)	SY	3,817	
35	41	00	EXCAVATION	CY	4,268	
35	41	00	COMPACTED FILL	CY	9,283	
35	41	00	TOP SOIL	CY	414	
35	41	00	MAINTENANCE RAMP	EA	0	
35	42	00	RIPRAP	CY	813	
35	43	00	TOP DRAINS	EA	0	
50	20	00	6-INCH FLEX BASE	SY	907	
60	78	00	SLUICE GATE REPLACEMENT	EA	0	
90	78	00	REMOVE & REPLACE VEHICLE GATE	EA	0	
90	79	00	ABANDON AND PLUG STRUCTURE	EA	0	

PLANS PREPARED BY:
TETRA TECH
17885 VON KARMAN AVE., SUITE 500
IRVINE, CA 92614 (949) 809-5000



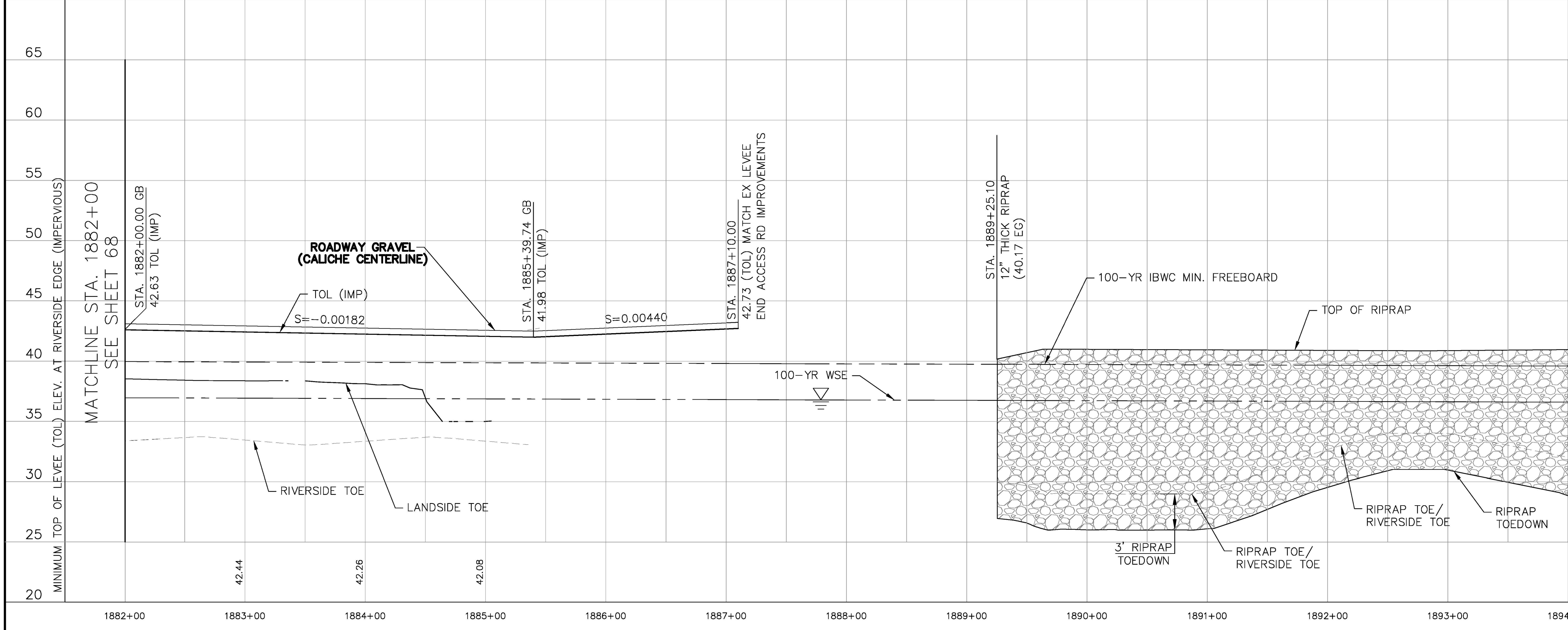
REV.	DESCRIPTION	BY	DATE
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INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
PLAN & PROFILE

STA. 1882+00.00 TO STA. 1894+00.00

DESIGNED	EM	FILE	
DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JL, AWG	APPROVED	MAO

28068-000-A0 SHEET 69 OF 299

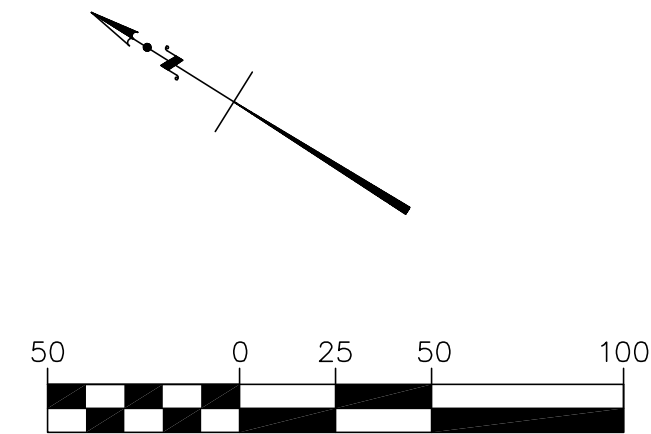


MATCHLINE STA. 1894+00
SEE SHEET 70

SCALE:
VERT: 1"=5'
HORIZ: 1"=50'

3/1/2019, 7:45 PM

C:\US\DAVID\AS-BUILT\TS-177069\1770690306\AS-BUILT.DWG




Texas 811
TEXAS EXCAVATION SAFETY SYSTEM, INC.
11880 GREENVILLE AVE., SUITE 120
1(800)-344-8377


**Know what's below.
Call before you dig.**

NOTE: CALL 48 HRS
BEFORE YOU DIG

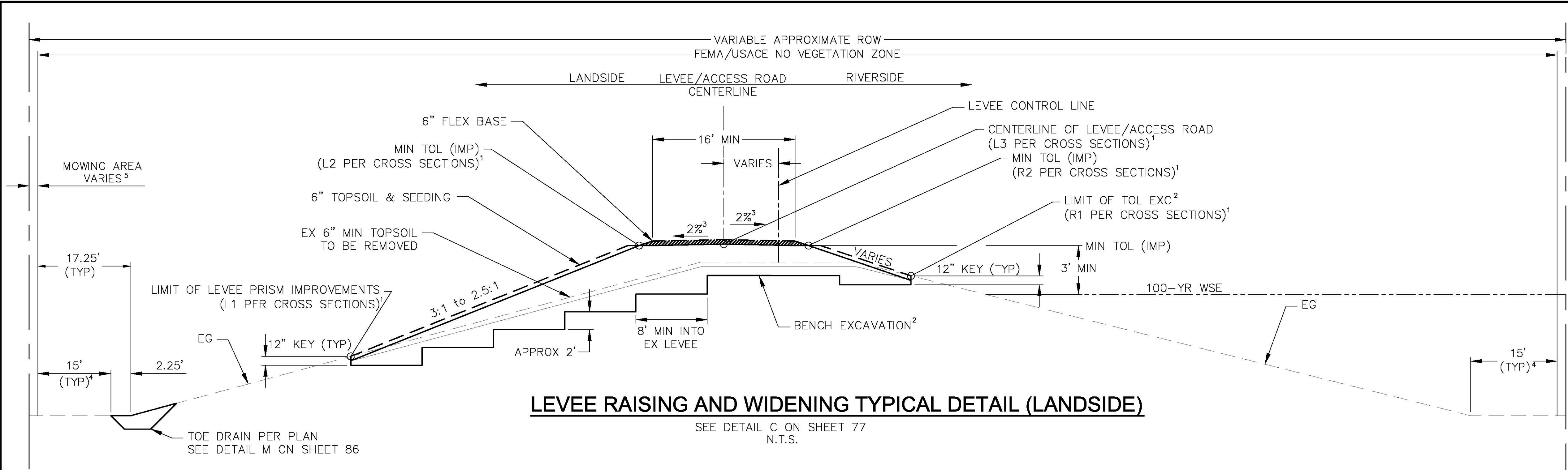


PLANS PREPARED BY:
 TERA TECH
 17885 VON KARMAN AVE., SUITE 500
 IRVINE, CA 92614 (949) 809-5000

 TEXAS REGISTRATION
 NO. F-3924



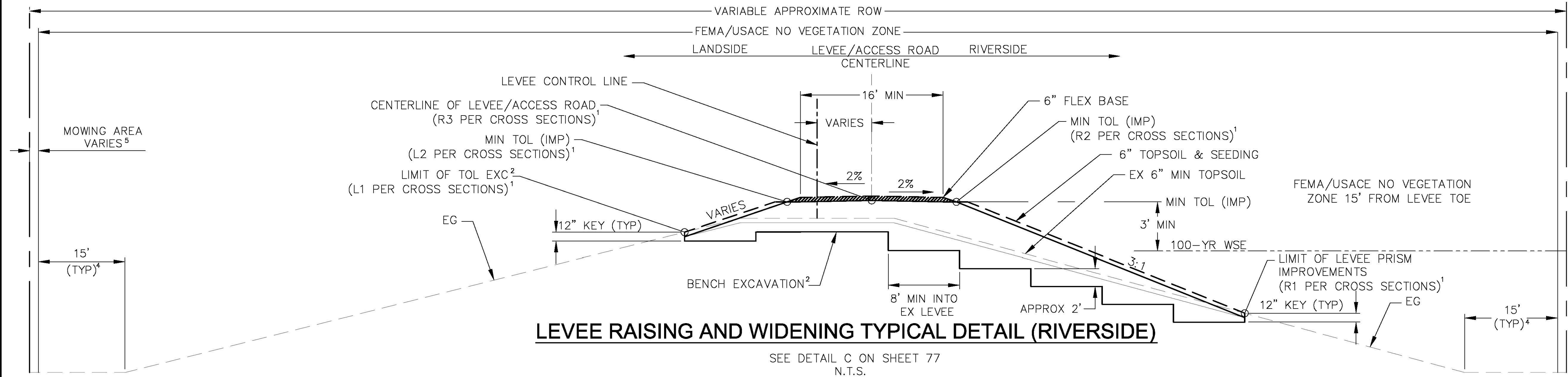
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LEVEE RAISING AND WIDENING TYPICAL DETAIL (LANDSIDE)

SEE DETAIL C ON SHEET 77
N.T.S.

LANDSIDE LEVEE RAISING AND WIDENING SECTIONS ⁶											
FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION
1270+72	1380+00	1474+00	1482+10	1584+00	1585+00	1674+70	1677+00	1757+50	1760+00	1878+60	1885+40
1396+00	1425+00	1488+00	1492+30	1587+00	1607+00	1682+10	1708+00	1762+30	1764+80		
1448+00	1459+30	1493+90	1522+00	1610+00	1611+00	1790+90	1714+00	1767+00	1787+00		
1460+70	1464+20	1525+00	1548+60	1612+00	1613+00	1717+80	1720+00	1790+00	1829+00		
1465+50	1470+20	1549+90	1550+80	1614+20	1617+00	1721+00	1726+70	1830+00	1861+60		
1471+50	1473+00	1578+10	1579+40	1618+65	1663+00	1754+20	1756+00	1864+25	1875+60		



LEVEE RAISING AND WIDENING TYPICAL DETAIL (RIVERSIDE)

SEE DETAIL C ON SHEET 77
N.T.S.

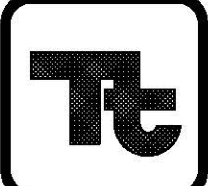
RIVERSIDE LEVEE RAISING AND WIDENING SECTIONS			
FROM STATION	TO STATION	FROM STATION	TO STATION
1897+80	1903+90		


TYPICAL SECTIONS NOTES:

1. OFFSET DIMENSIONS R1, R2, R3, L1, L2, L3, ARE MEASURED FROM THE LEVEE CONTROL LINE
2. THERE SHALL BE 12" OF TOL EXCAVATION (6" FLEX BASE AND 6" OF TOL) IN ALL LOCATIONS EXCEPT AS SPECIFIED BELOW. TOL EXCAVATION IN THE LOCATIONS SPECIFIED BELOW SHALL BE 18" (6" OF FLEX BASE AND 12" OF TOL) :

LOCATIONS OF 18" TOL EXCAVATION			
STA 1270+72	TO STA 1279+50		
STA 1309+80	TO STA 1372+50		
STA 1523+97.33	TO STA 1528+50		
STA 1707+80	TO STA 1710+00		
STA 1794+80	TO STA 1796+00		
STA 1862+80	TO STA 1863+88.62		
STA 1864+22.24	TO STA 1864+50		
STA 1875+00	TO STA 1876+14.57		

3. CROWN SLOPE OF BOTH TOL (IMP) AND FLEX BASE.
4. USACE/FEMA NO VEGETATION ZONE EXTENDS 15' MIN FROM LEVEE TOE OR TO ROW OR BORDER FENCE WHICHEVER IS LESS AS REFLECTED ON THE PLAN AND PROFILE AND SHOWN IN THE CROSS SECTION SHEETS 98 TO 246.
5. AREA OF MOWING ON LANDSIDE BETWEEN USACE/FEMA NO VEGETATION ZONE AND ROW OR BORDER FENCE WHICHEVER IS CLOSER. SEE CROSS SECTION SHEETS 98 TO 246.
6. APPLICABLE STATIONS FOR TYPICAL SECTIONS ARE APPROXIMATE. REFER TO CROSS SECTION SHEETS 98 TO 246.
7. REFER TO SHTS 88 TO 97 FOR LEVEE RAMP DETAILS.

PLANS PREPARED BY:
 **TETRA TECH**
17885 VON KARMAN AVE, SUITE 500
IRVINE, CA 92614
PHONE: (949) 809-5000
FAX: (949) 809-5010
TEXAS REGISTRATION NO. F-3924

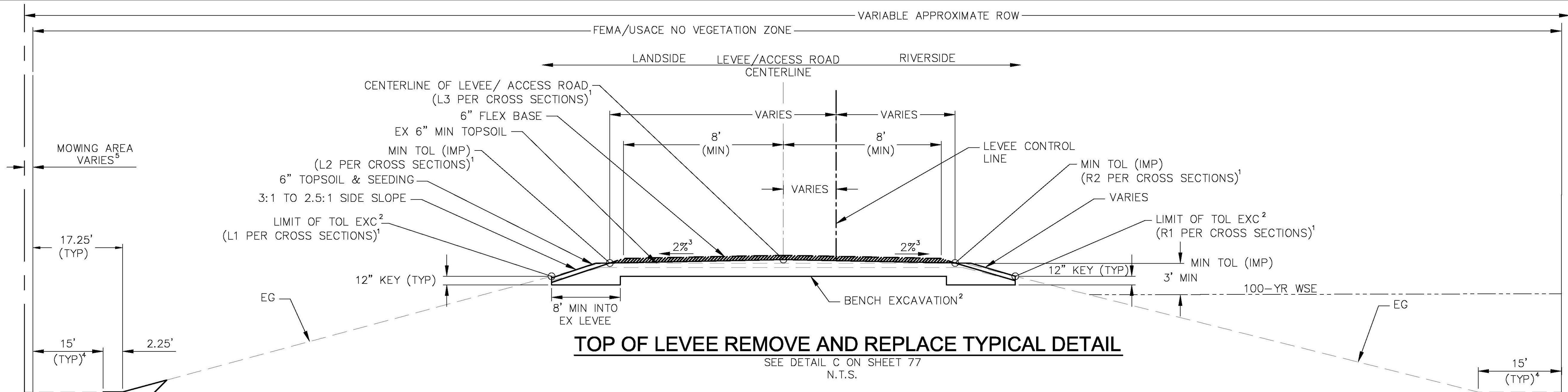


"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
TYPICAL SECTIONS (1)

DESIGNED EM FILE
DRAWN EM RECOMMENDED IGP
CHECKED YHC, JL, AWG APPROVED MAO

28073-000-A0 SHEET 74 OF 299



TOP OF LEVEE REMOVE AND REPLACE TYPICAL DETAIL

SEE DETAIL C ON SHEET 77
N.T.S.

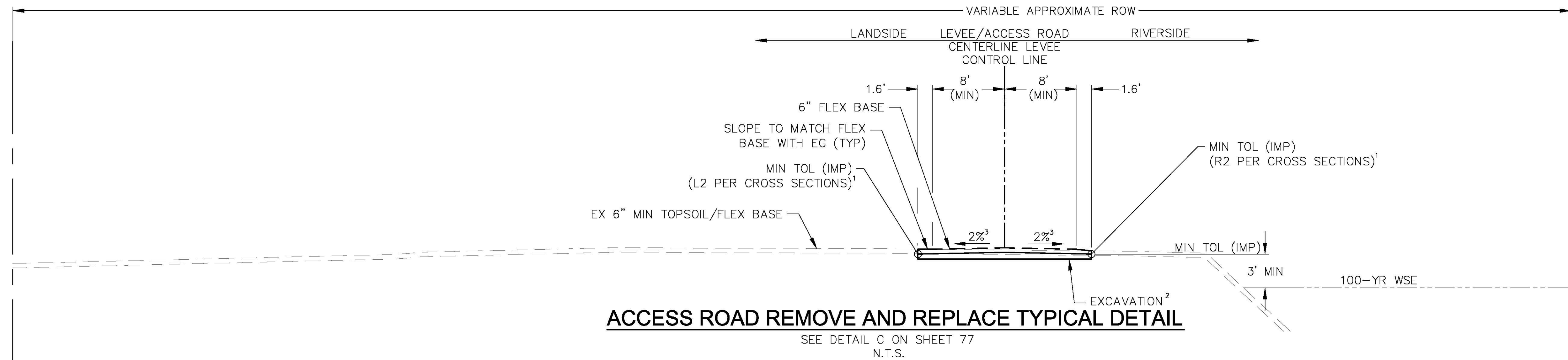
TOP OF LEVEE REMOVE AND REPLACE SECTIONS ⁶									
FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION	FROM STATION	TO STATION
1459+30	1460+70	1522+00	1522+80	1607+00	1610+00	1708+00	1709+90	1760+00	1762+30
1464+20	1465+50	1548+60	1549+90	1611+00	1612+00	1716+00	1717+80	1764+80	1767+00
1470+20	1471+50	1550+80	1551+20	1613+00	1614+20	1726+00	1733+00	1787+00	1790+00
1482+10	1483+75	1553+25	1578+10	1617+00	1618+65	1740+00	1744+00	1861+60	1863+50
1484+25	1488+00	1579+40	1584+00	1663+00	1674+70	1753+00	1754+20	1875+60	1878+60
1492+30	1493+30	1585+00	1587+00	1677+00	1682+10	1756+00	1757+50		

TYPICAL SECTIONS NOTES:

1. OFFSET DIMENSIONS R1, R2, R3, L1, L2, L3, ARE MEASURED FROM THE LEVEE CONTROL LINE
2. THERE SHALL BE 12" OF TOL EXCAVATION (6" FLEX BASE AND 6" OF TOL) IN ALL LOCATIONS EXCEPT AS SPECIFIED BELOW. TOL EXCAVATION IN THE LOCATIONS SPECIFIED BELOW SHALL BE 18" (6" OF FLEX BASE AND 12" OF TOL) :

LOCATIONS OF 18" TOL EXCAVATION			
STA 1270+72	TO STA	1279+50	
STA 1309+80	TO STA	1372+50	
STA 1523+97.33	TO STA	1528+50	
STA 1707+80	TO STA	1710+00	
STA 1794+80	TO STA	1796+00	
STA 1862+80	TO STA	1863+88.62	
STA 1864+22.24	TO STA	1864+50	
STA 1875+00	TO STA	1876+14.57	

3. CROWN SLOPE OF BOTH TOL (IMP) AND FLEX BASE.
4. USACE/FEMA NO VEGETATION ZONE EXTENDS 15' MIN FROM LEVEE TOE OR TO ROW OR BORDER FENCE WHICHEVER IS LESS AS REFLECTED ON THE PLAN AND PROFILE AND SHOWN IN THE CROSS SECTION SHEETS 98 TO 246.
5. AREA OF MOWING ON LANDSIDE BETWEEN USACE/FEMA NO VEGETATION ZONE AND ROW OR BORDER FENCE WHICHEVER IS CLOSER. SEE CROSS SECTION SHEETS 98 TO 246.
6. APPLICABLE STATIONS FOR TYPICAL SECTIONS ARE APPROXIMATE. REFER TO CROSS SECTION SHEETS 98 TO 246.
7. REFER TO SHTS 88 TO 97 FOR LEVEE RAMP DETAILS.



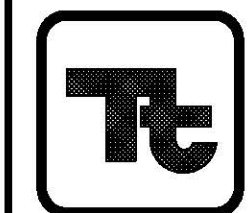
ACCESS ROAD REMOVE AND REPLACE TYPICAL DETAIL

SEE DETAIL C ON SHEET 77
N.T.S.

ACCESS ROAD REMOVE AND REPLACE SECTIONS			
FROM STATION	TO STATION	FROM STATION	TO STATION
1472+98.03	1474+00	1744+00	1753+00
1483+83.42	1484+25	1829+00	1829+23.46
1523+97.33	1525+00	1829+84.72	1830+00
1551+20	1553+25	1863+50	1863+88.62
1714+00	1716+00	1875+99	1876+14.51
1720+00	1721+00	1903+90	1904+85
1733+00	1740+00		

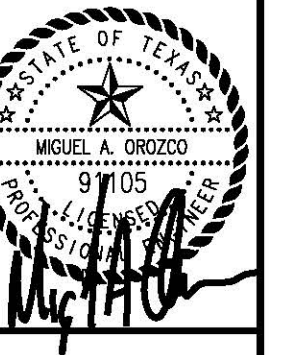


PLANS PREPARED BY:



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TEXAS REGISTRATION NO. F-3924

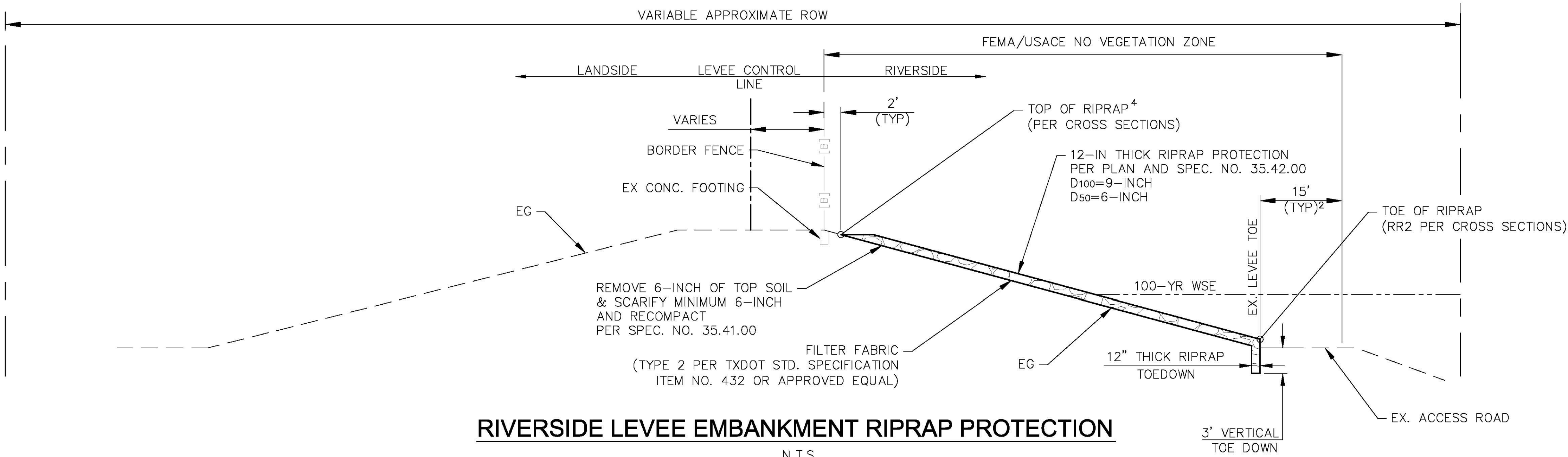


"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
TYPICAL SECTIONS (2)

DESIGNED EM FILE
DRAWN EM RECOMMENDED IGP
CHECKED YHC, JL, AWG APPROVED MAO

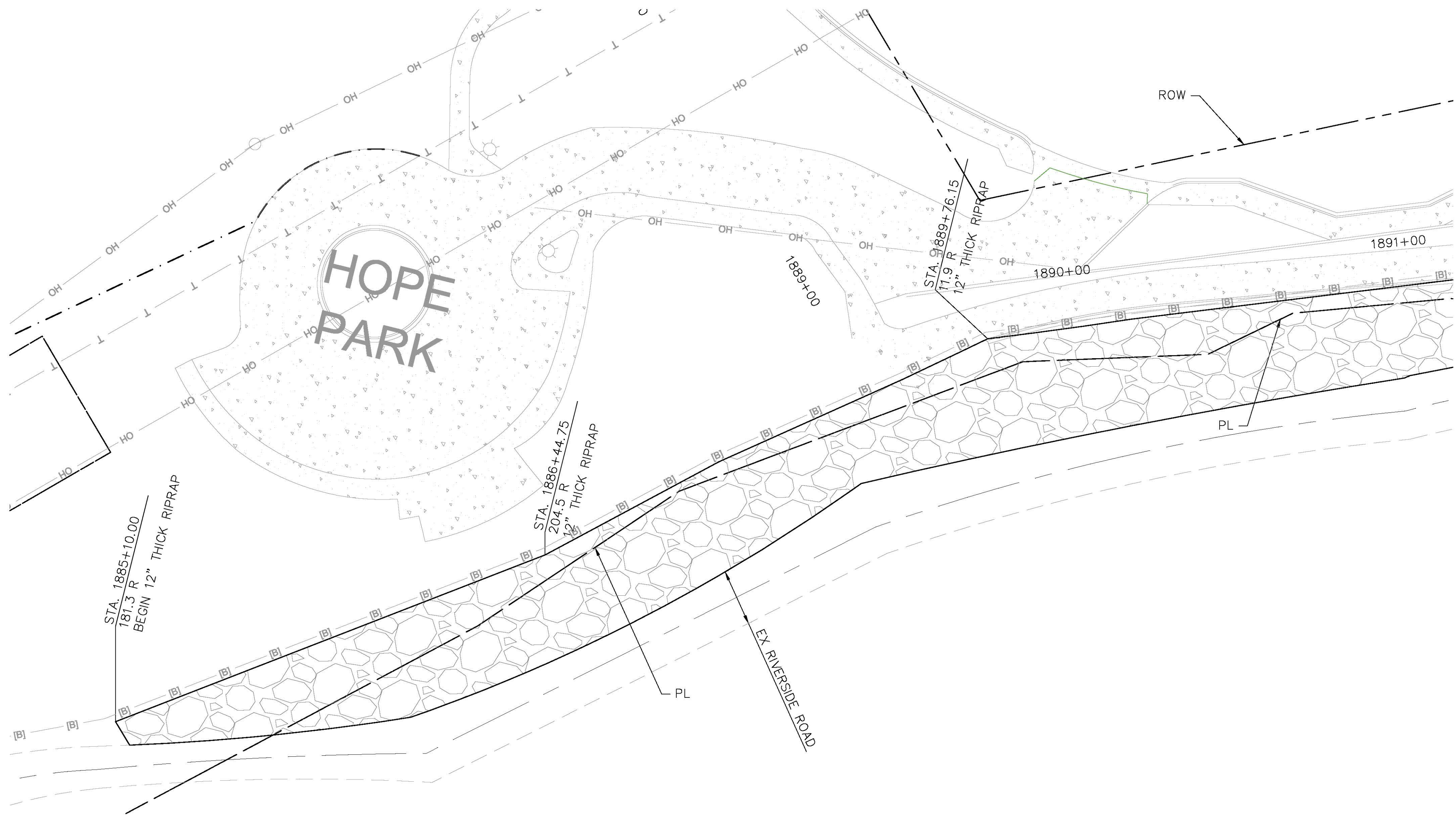
28074-000-A0 SHEET 75 OF 299



RIVERSIDE LEVEE EMBANKMENT RIPRAP PROTECTION

N.T.S.

RIVERSIDE LEVEE EMBANKMENT RIPRAP PROTECTION ³			
FROM STATION	TO STATION	FROM STATION	TO STATION
1885+10	1898+00		
181.3 R			



TYPICAL SECTIONS NOTES:

1. OFFSET DIMENSIONS RR1 & RR2, ARE MEASURED FROM THE LEVEE CONTROL LINE
2. USACE/FEMA NO VEGETATION ZONE EXTENDS 15' MIN FROM LEVEE TOE OR TO ROW OR BORDER FENCE WHICHEVER IS LESS AS REFLECTED ON THE PLAN AND PROFILE AND SHOWN IN THE CROSS SECTION SHEETS 98 TO 246.
3. APPLICABLE STATIONS FOR TYPICAL SECTIONS ARE APPROXIMATE. REFER TO CROSS SECTION SHEETS 98 TO 246.
4. CONSTRUCT RIPRAP ALONG EXISTING BORDER FENCE.

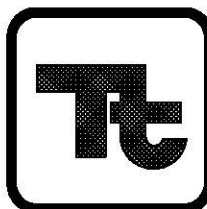
STATEMENT OF CERTIFICATION:
I, David Omar Salinas, a Registered Professional Land Surveyor, licensed to practice in the State of Texas, do hereby certify and attest that the locations, elevations, depth and comments contained herein accurately reflect the constructed field condition. This certification does not certify or otherwise comment or express an opinion on the plan "design" - by others. Furthermore, a limited amount of the As-Built information contained herein was not personally observed or witnessed by me and information of this kind and shown herein was provided to me by the Contractor and/or his staff in the form of construction plan redlines.

NOTE:

WORK DONE OUTSIDE OF THE USBWC ROW BETWEEN STA. 1885+10.00 TO 1898+00.00 TO CONSTRUCT RIPRAP ALONG RIVER SIDESLOPE, USBWC HAS OBTAINED TEMPORARY EASEMENT (R.O.W.661C AND R.O.W.662C).



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TEXAS REGISTRATION NO. F-3924



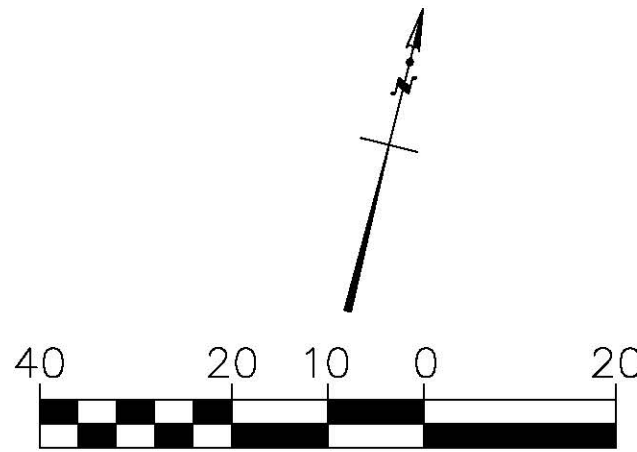
"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
TYPICAL SECTIONS (3)
HOPE PARK DETAIL

DESIGNED	EM	FILE	
DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JL, AWG	APPROVED	MAO

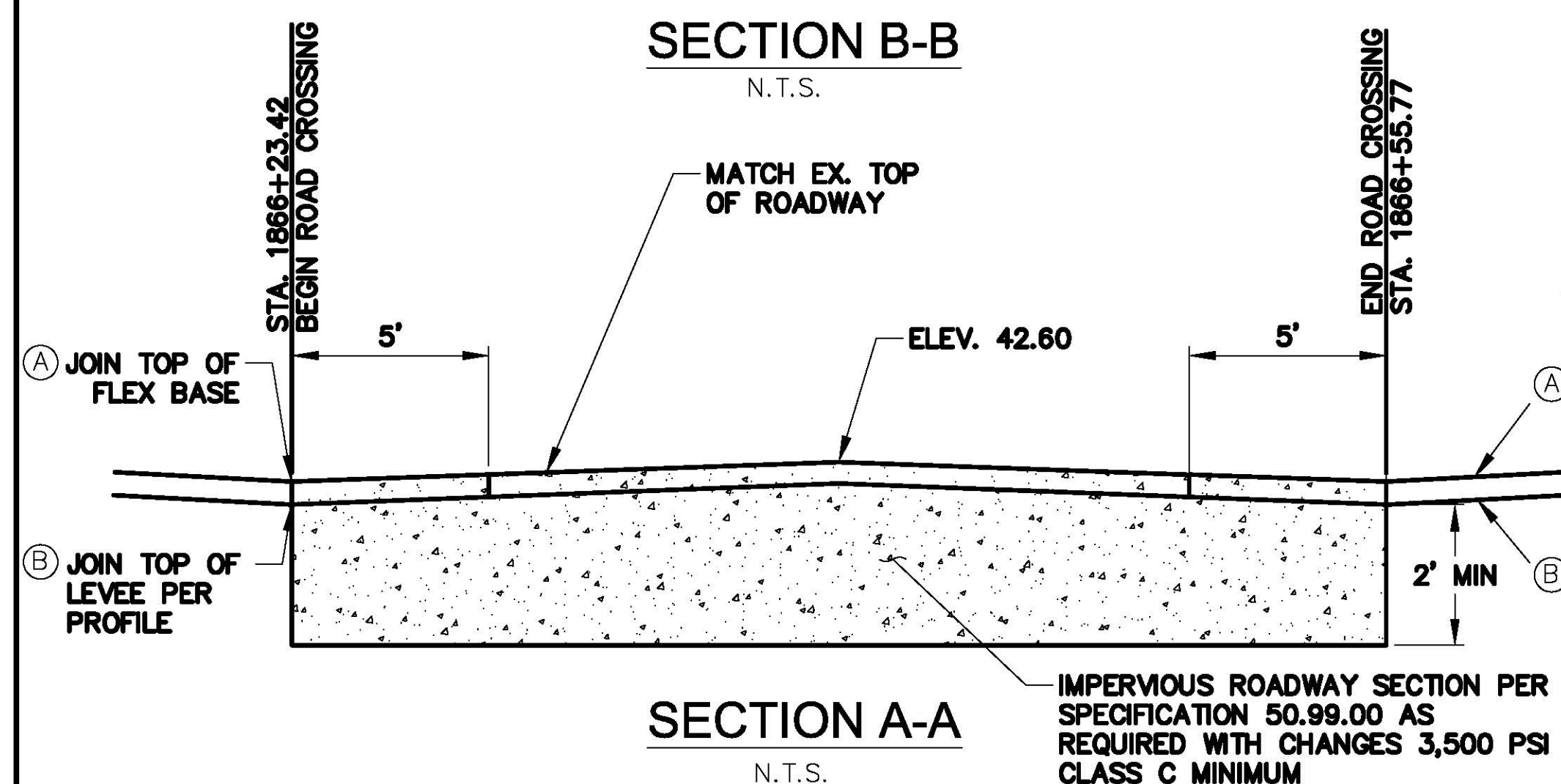
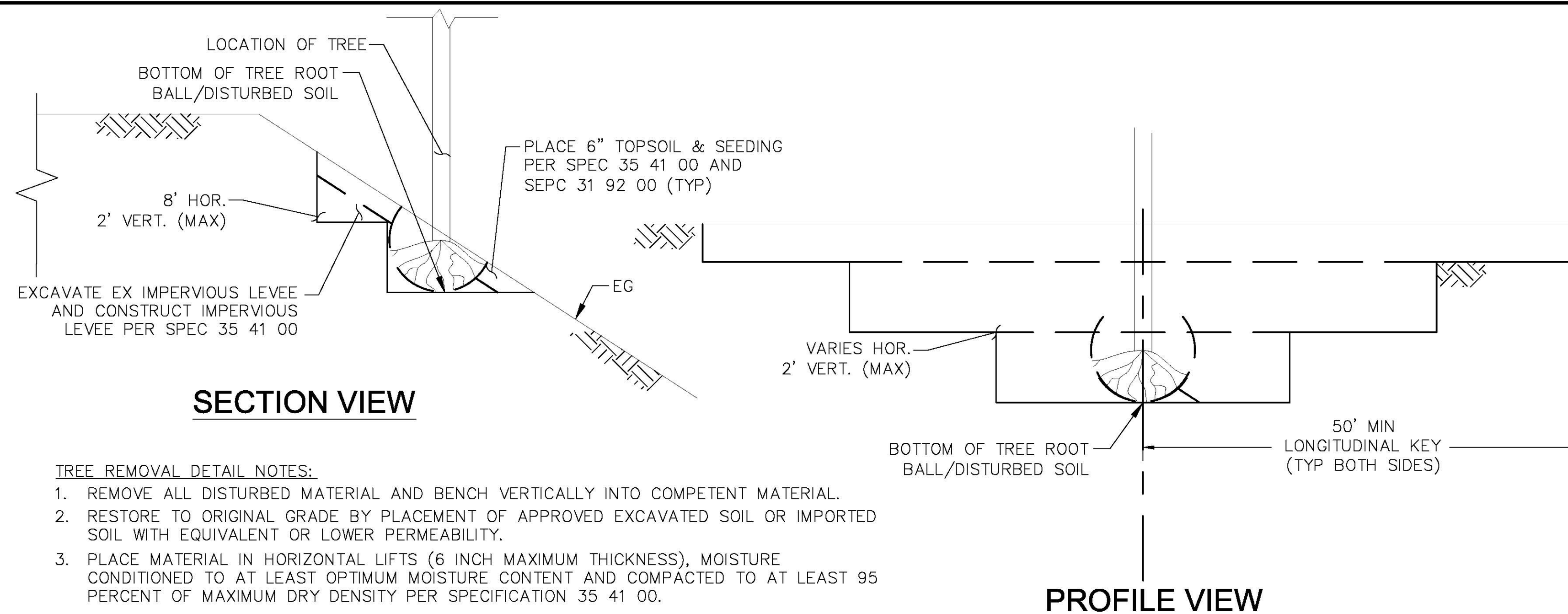
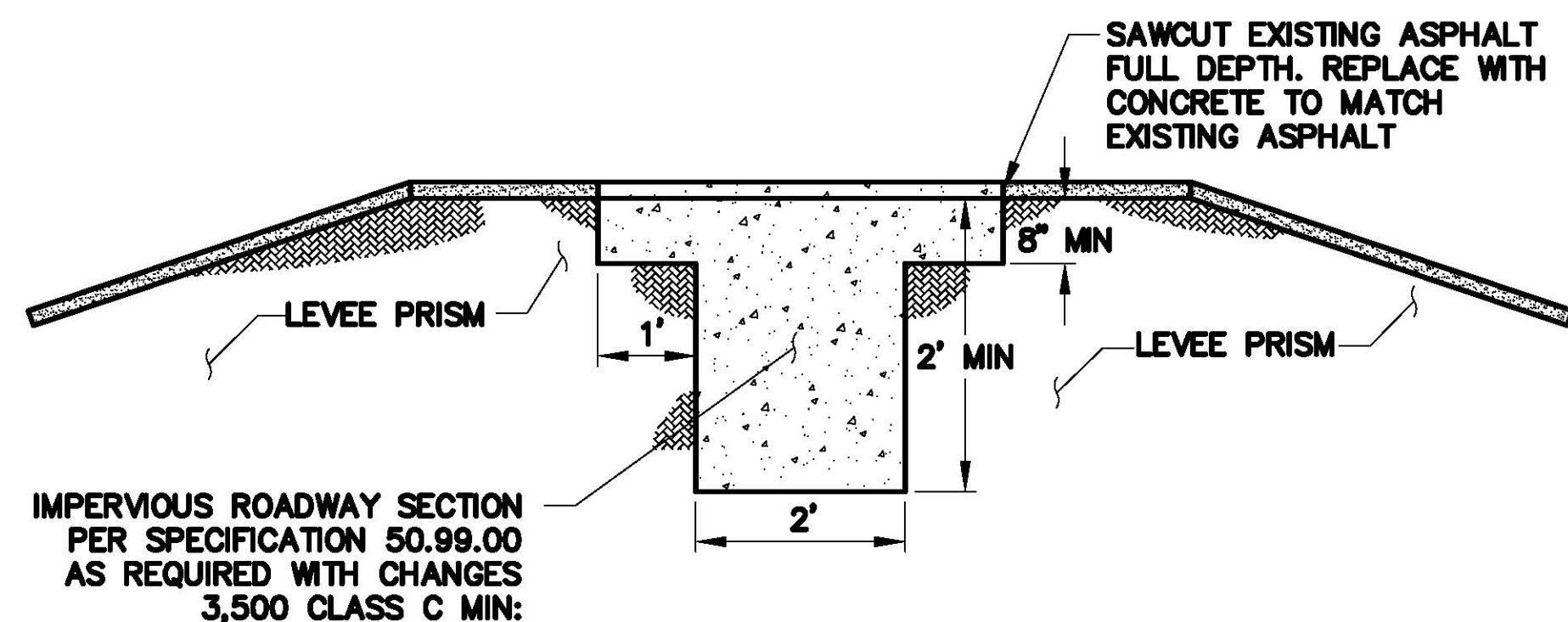
28075-000-A0

SHEET 76 OF 299

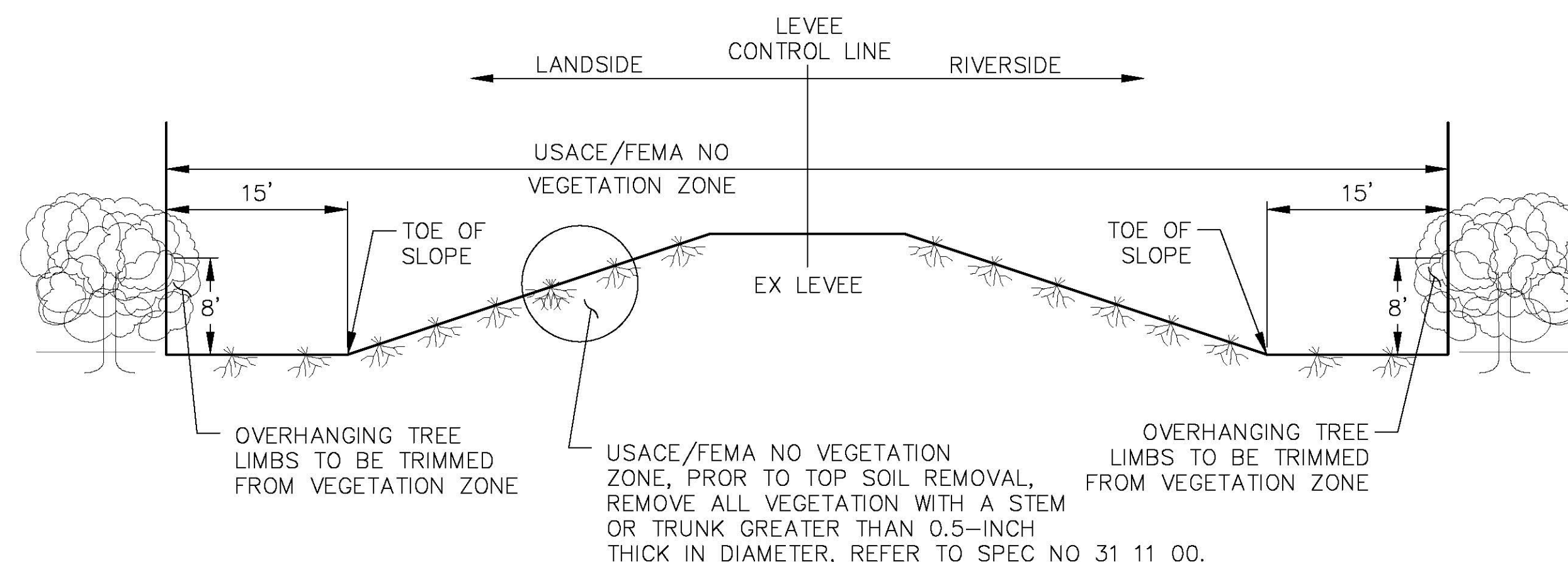
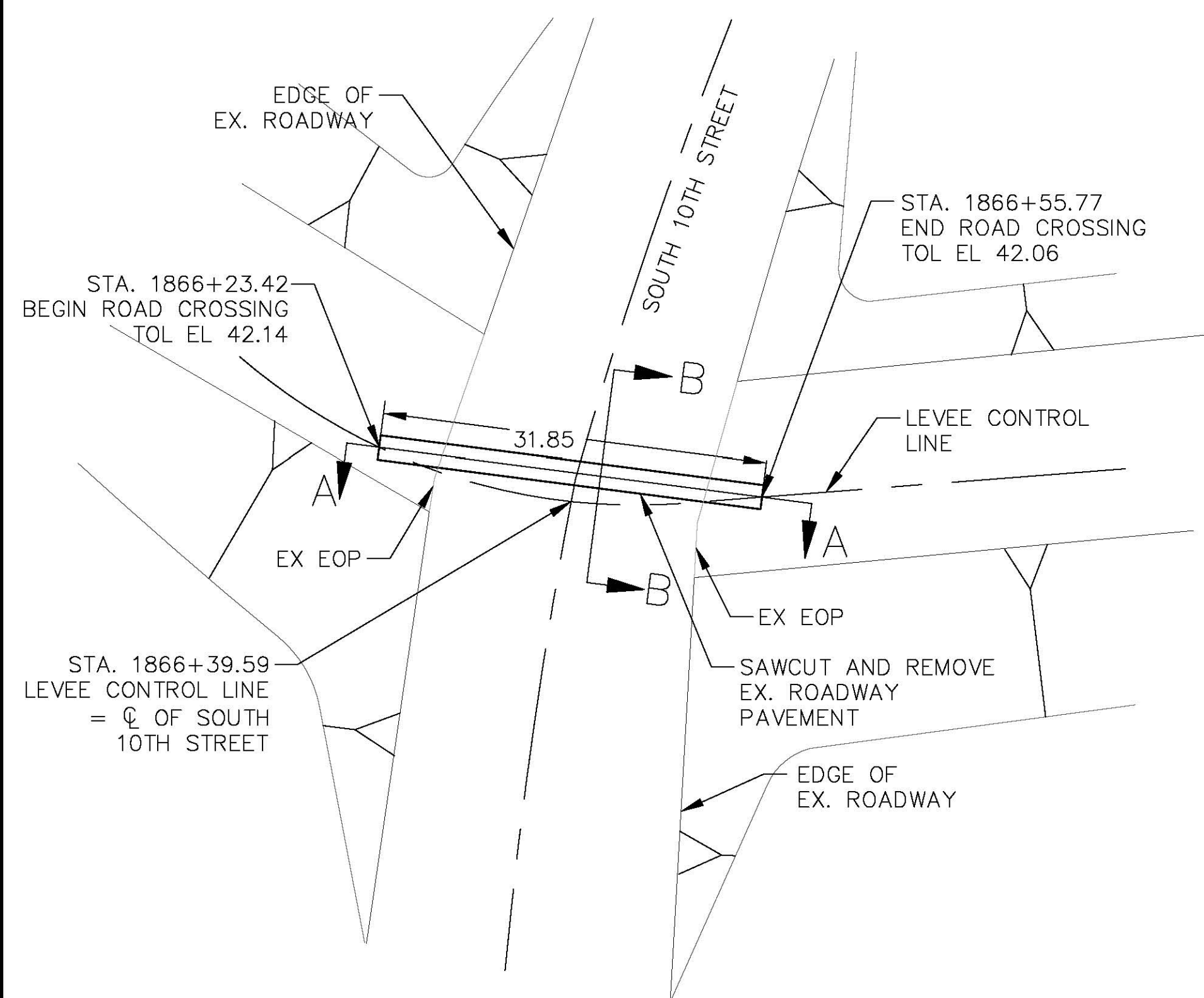
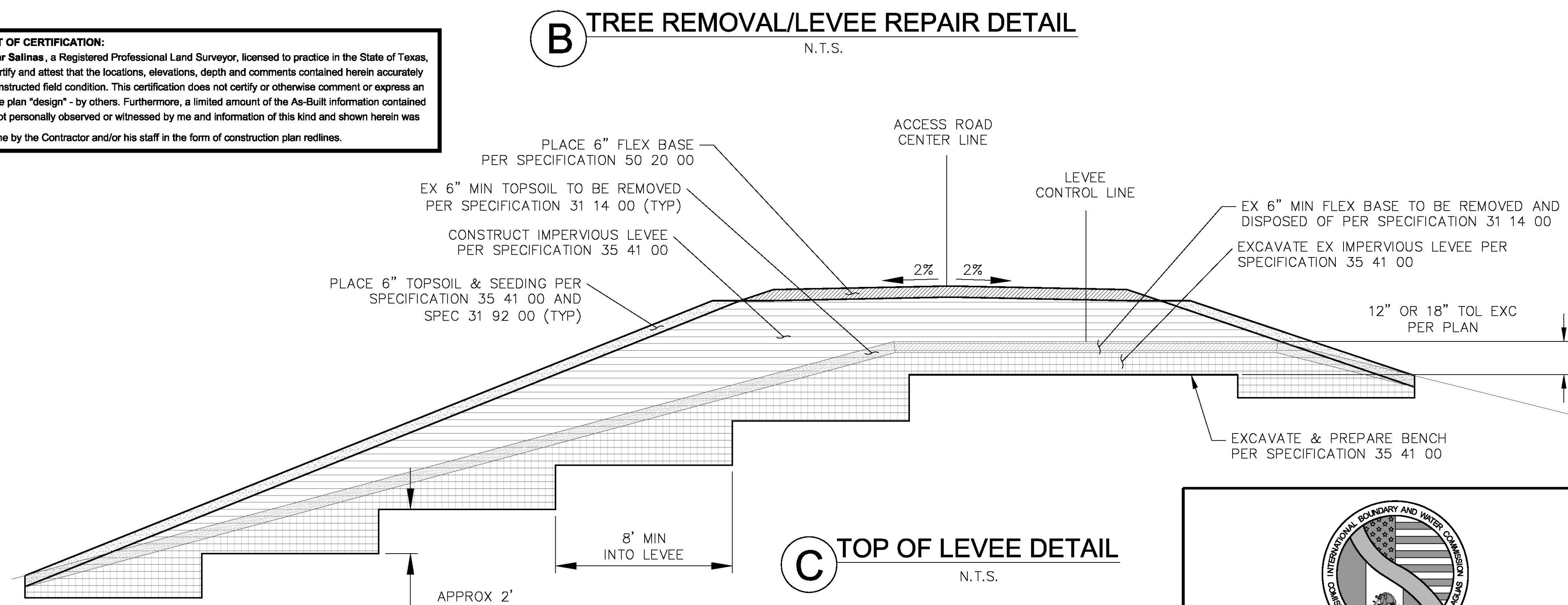


3/17/2015 R 07 PM

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TEXAS REGISTRATION NO. F-3924

"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
TYPICAL DETAILS/
IMPERVIOUS ROADWAY SECTION DETAIL

DESIGNED EM FILE
DRAWN EM RECOMMENDED IGP
CHECKED YHC, JL, AWG APPROVED MAO

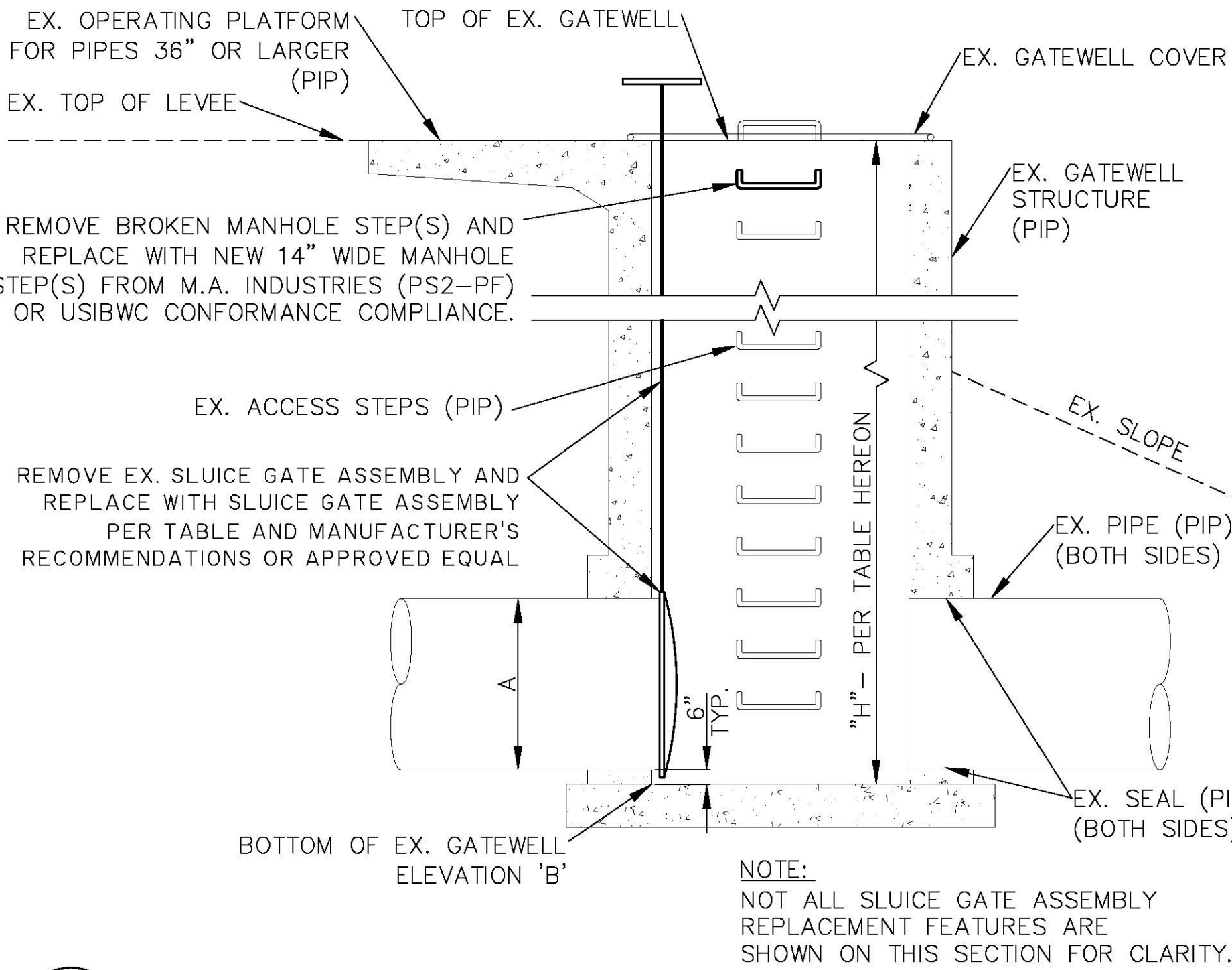
28076-000-A0 SHEET 77 OF 299

SUMMARY OF GATEWELL IMPROVEMENTS

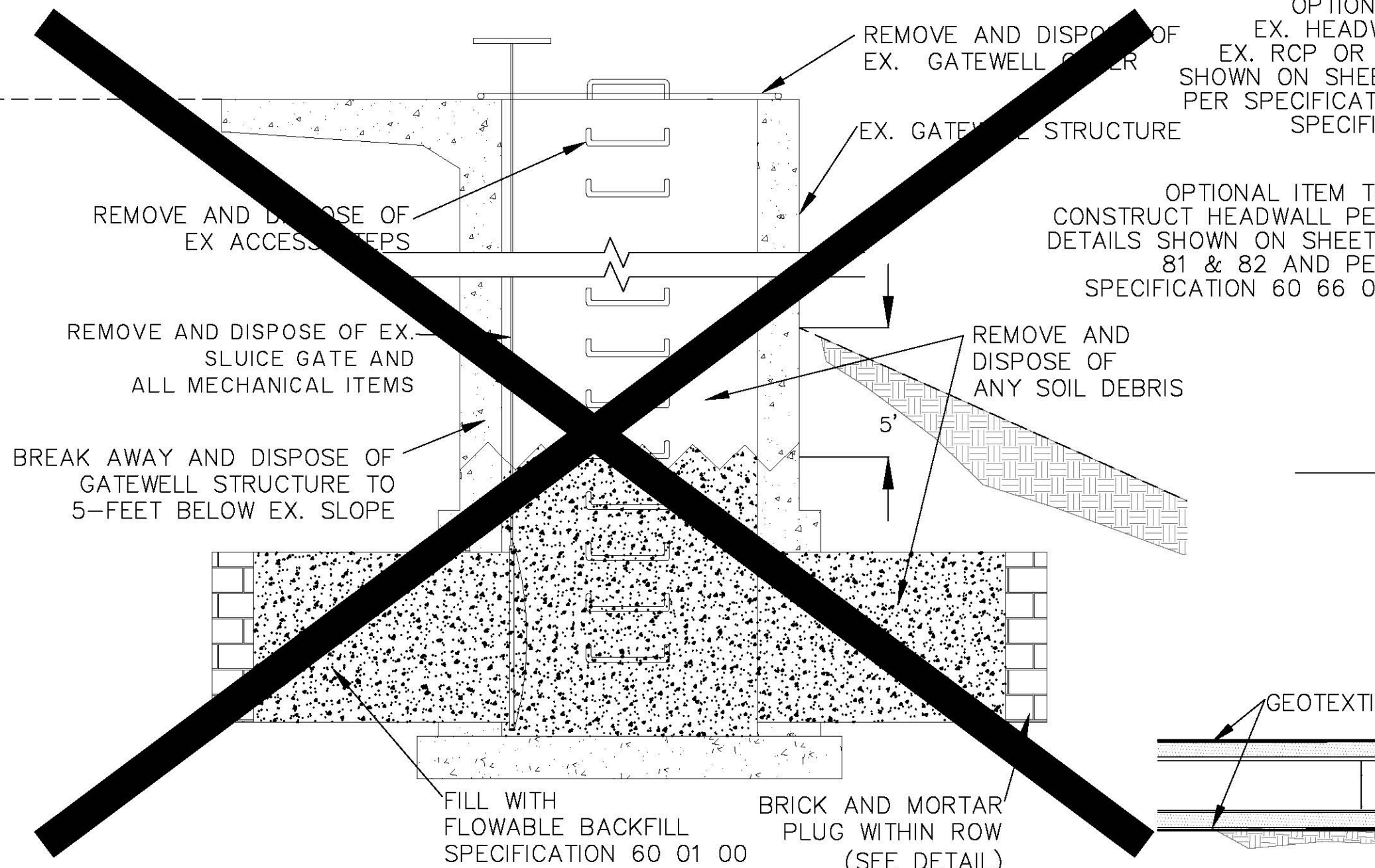
STRUCTURE	LEVEE STA.	MANHOLE STEPS	NEW T-POST	NEW GATEWELL REBAR COVER	SLUICE GATE SIZE (A)	H (NOTE1)	ELEV. B	TOP OF GATEWELL	NEW SLUICE GATE
131	1279+19				18"	12	42.22	54.22	YES
132	1295+82				18"			PROTECT IN PLACE	
133	1297+41				24"	11	42.10	53.10	YES
133L	1310+46		YES (6)		48"			USIBWC TO INSPECT, NOTE 4	
134	1314+18				18"	10	43.71	53.71	YES
135	1322+36				18"			ABANDONED STRUCTURE, NOTE 2	
136	1331+65		YES (6)		18"			ABANDONED STRUCTURE, NOTE 2	
137	1333+32	1 STEP (5)			18"	10	43.85	53.85	YES
138	1338+48				18"	10	43.46	53.46	YES
139	1343+63		YES (6)		18"			PROTECT IN PLACE	
140	1350+77		YES (6)	YES (7)	24"	12	41.20	53.20	YES
147	1397+09				3x3	12	40.31	52.31	YES
147AL	1405+89	1 STEP (5)	YES (6)	YES (7)	3x3	11	40.68	51.68	YES
148	1417+55		YES (6)		18"	13	38.95	51.95	YES
149	1421+23				18"			PROTECT IN PLACE	
150	1427+90				18"			USIBWC TO INSPECT, NOTE 4	
151	1428+63		YES (6)		3x3	14	38.45	52.45	YES
152	1434+90				18"			USIBWC TO INSPECT, NOTE 4	
153	1441+38				18"			USIBWC TO INSPECT, NOTE 4	
154	1447+56			YES (7)	18"			PROTECT IN PLACE	
155L	1465+21				5x5			USIBWC TO INSPECT, NOTE 4	
162	1510+91			YES (7)	24"	13	37.92	50.92	YES
166	1535+08				3x3			ABANDONED STRUCTURE, NOTE 2	
167	1547+04				18"			ABANDONED STRUCTURE, NOTE 2	
168	1551+53				18"			ABANDONED STRUCTURE, NOTE 2	
169	1559+95				18"			ABANDONED STRUCTURE, NOTE 2	
170	1566+53				18"			ABANDONED STRUCTURE, NOTE 2	
171	1572+19		YES (6)		18"	13	36.37	49.37	YES
172	1586+55		YES (6)	YES (7)	24"	13	35.83	48.83	YES
173	1590+53				4x4			ABANDONED STRUCTURE, NOTE 2	
175	1591+38				18"	13.62	34.74	48.36	YES
176	1601+75				3x3			ABANDONED STRUCTURE, NOTE 2	
177L	1610+29				54"			USIBWC TO INSPECT, NOTE 4	
178 (8)	1616+26				3x3	15	33.00	48.00	YES
179 (8)	1616+42				24"	10	37.90	47.90	YES
180	1616+57				18"			ABANDONED STRUCTURE, NOTE 2	
181	1627+08				24"			ABANDONED STRUCTURE, NOTE 2	
181A (8)	1636+69				48"			PROTECT IN PLACE	
181AL	1636+82				48"			USIBWC TO INSPECT, NOTE 4	
182	1642+17				18"			ABANDONED STRUCTURE, NOTE 2	
183	1649+68				18"			ABANDONED STRUCTURE, NOTE 2	
184	1656+90				18"			ABANDONED STRUCTURE, NOTE 2	
186	1675+21		YES (6)	YES (7)	24"	9.86	36.22	46.08	YES
188	1702+96							ABANDONED STRUCTURE, NOTE 2	
189	1712+47							PROTECT IN PLACE	
191A	1744+78				18"			ABANDONED STRUCTURE, NOTE 2	
191L	1751+97				36"			USIBWC TO INSPECT, NOTE 4	
193	1778+63							ABANDONED STRUCTURE, NOTE 2	
194	1782+57							ABANDONED STRUCTURE, NOTE 2	
195	1790+78							ABANDONED STRUCTURE, NOTE 2	
196	1791+86							ABANDONED STRUCTURE, NOTE 2	
197	1793+14				24"			USIBWC TO INSPECT, NOTE 4	
201	1794+44				24"			ABANDONED STRUCTURE, NOTE 2	
198	1829+02				24"			ABANDONED STRUCTURE, NOTE 2	
199	1829+92				24"			USIBWC TO INSPECT, NOTE 4	
204	1878+72				24"			ABANDONED STRUCTURE, NOTE 2	
204L	1881+37				42"			USIBWC TO INSPECT, NOTES 3 & 4	
205	1894+51				15"			USIBWC TO INSPECT, NOTE 4	

NOTES:

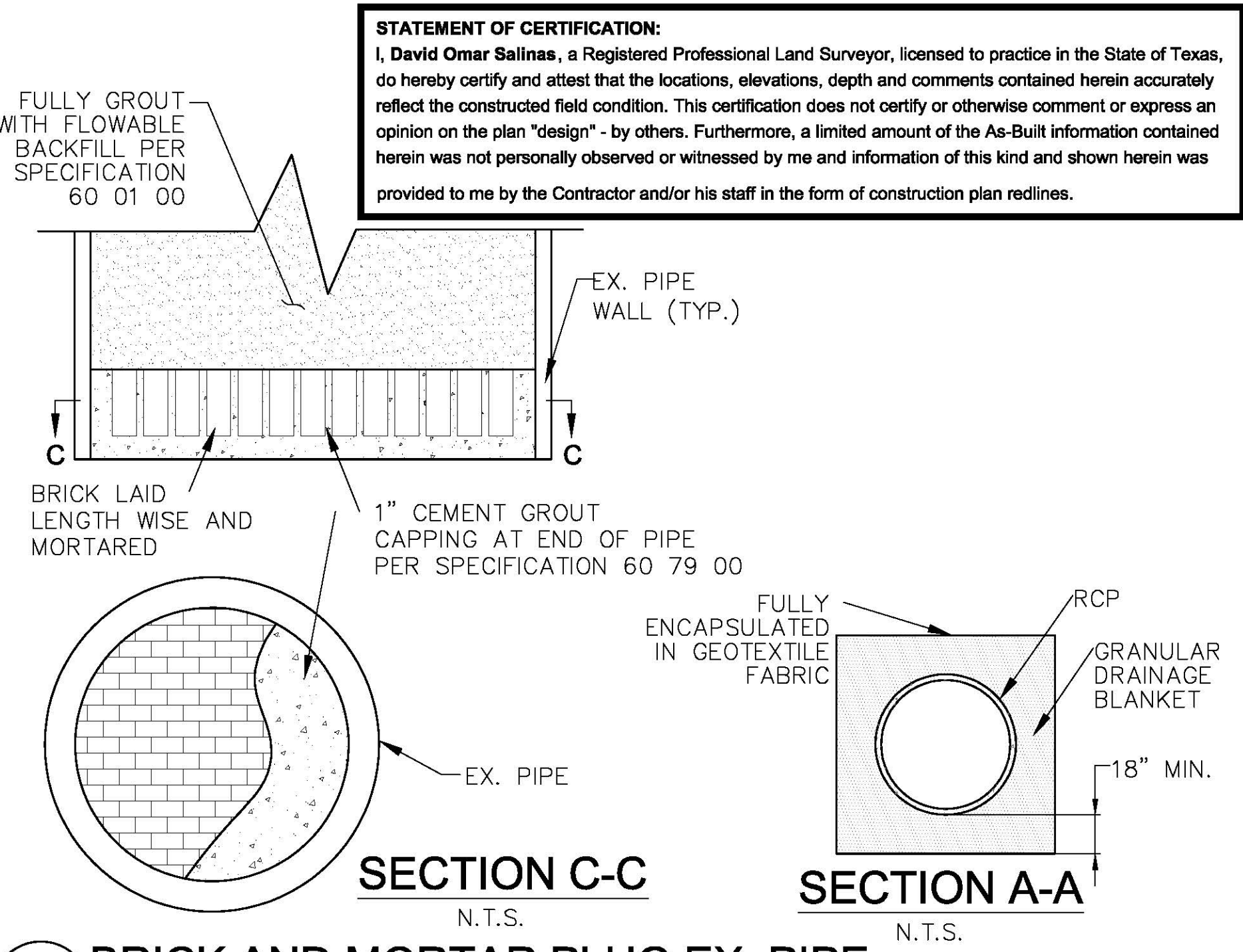
- CONTRACTOR TO VERIFY FIELD HEIGHTS, NO AS-BUILT PLANS AVAILABLE.
- CONTRACTOR TO BREAK AWAY GATEWELL STRUCTURE TO A DEPTH OF 5 FEET BELOW EX LEVEE SLOPE AND LOCATE AND BREAK EX-INLET AND OUTLET PIPE WITHIN ROW AND BRICK AND MORTAR PLUG PIPE AND FILL WITH FLOWABLE BACKFILL PER DETAILS F1 AND F2.
- CONTRACTOR TO REMOVE EXISTING CONCRETE SLAB PLACED ON TOP OF GATEWELL TO ALLOW USIBWC TO INSPECT AND DETERMINE CONDITION OF STRUCTURE AND SLUICE GATE.
- REFER TO SPEC NO. 60-98-00.
- CONTRACTOR TO REMOVE BROKEN MANHOLE STEP(S) AND REPLACE WITH NEW 14" WIDE MANHOLE STEP(S) (PS2-PF) FROM M.A. INDUSTRIES, INC. OR APPROVED EQUAL.
- CONTRACT TO REMOVE EX. T-POST AND INSTALL NEW T-POST. T-POST SHALL BE 4" DIAMETER TREATED WOODEN POST PAINTED YELLOW THROUGHOUT AND BLACK ON THE TOP 2 FEET. T-POST TO BE EMBEDDED INTO THE GROUND A MINIMUM OF 3 FEET, THE TOP OF THE POST TO BE 5 FEET ABOVE GROUND. NEW T-POST LOCATION PER USIBWC CONFORMANCE COMPLIANCE.
- CONTRACTOR TO REMOVE EX. GATEWELL COVER AND REPLACE WITH NEW GATEWELL REBAR COVER AS SHOWN ON SHEET 80. CONTRACTOR TO VERIFY SIZE OF GATEWELL REBAR COVER.
- TETRA TECH UNABLE TO LOCATE THE CONCRETE HEADWALL TO INSPECT. USIBWC NOTED THAT HEADWALL NEEDED SOME WORK. CONTRACTOR TO LOCATE HEADWALL FOR INSPECTION, ADDITIONAL WORK ON HEADWALL MAY BE DONE AS A OPTIONAL ITEM PER SPEC 60-66-00.



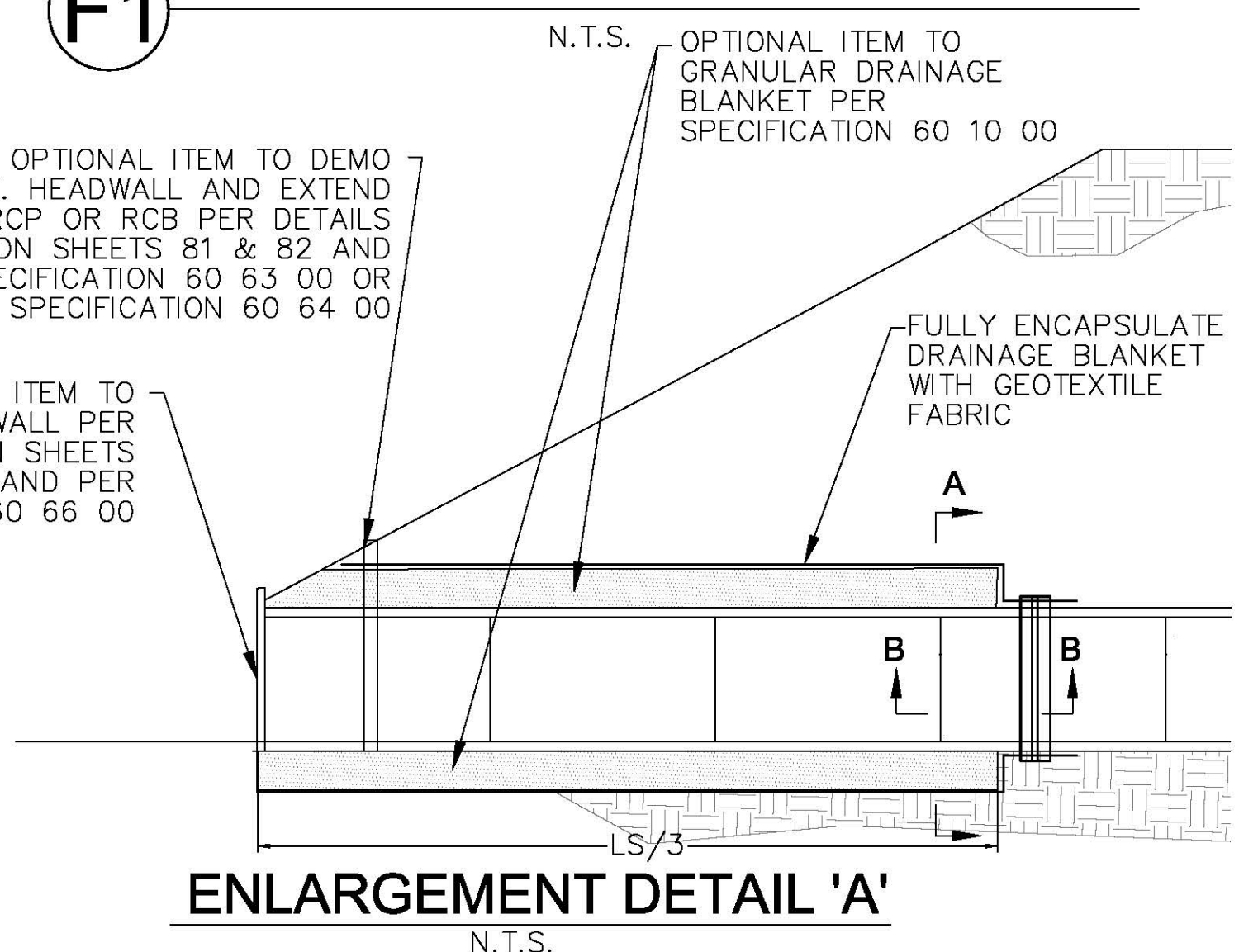
F1 TYPICAL SECTION OF GATEWELL STRUCTURE N.T.S.



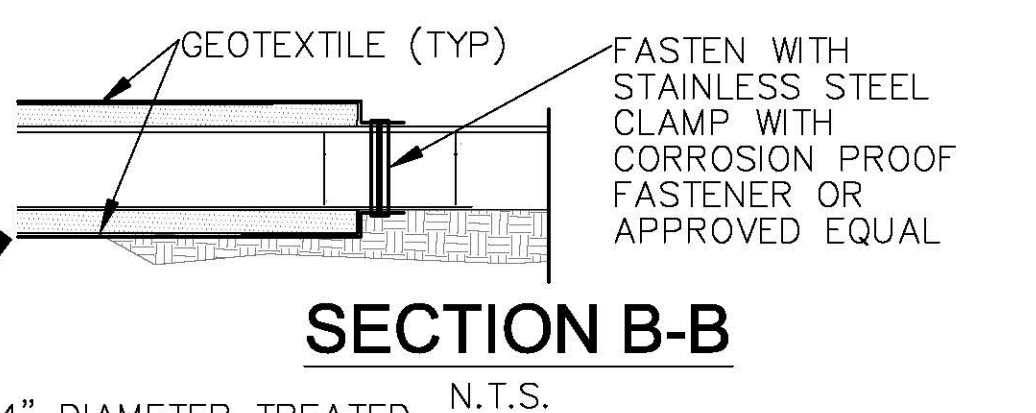
F2 ABANDONED GATEWELL REMOVAL N.T.S.



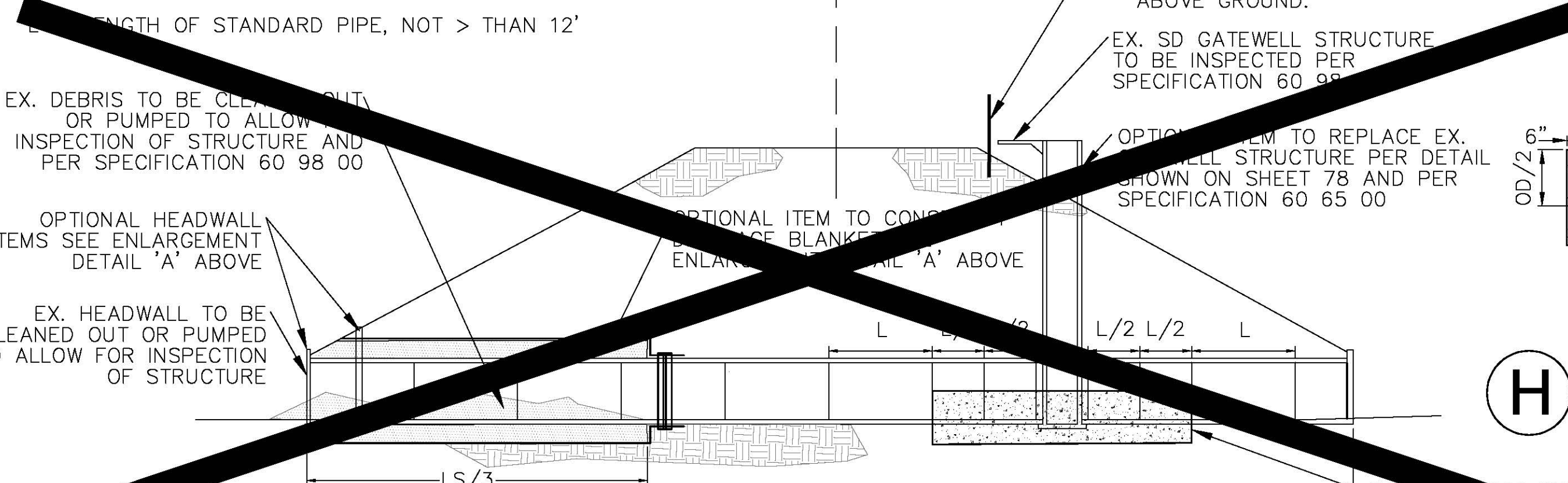
F1 BRICK AND MORTAR PLUG EX. PIPE N.T.S.



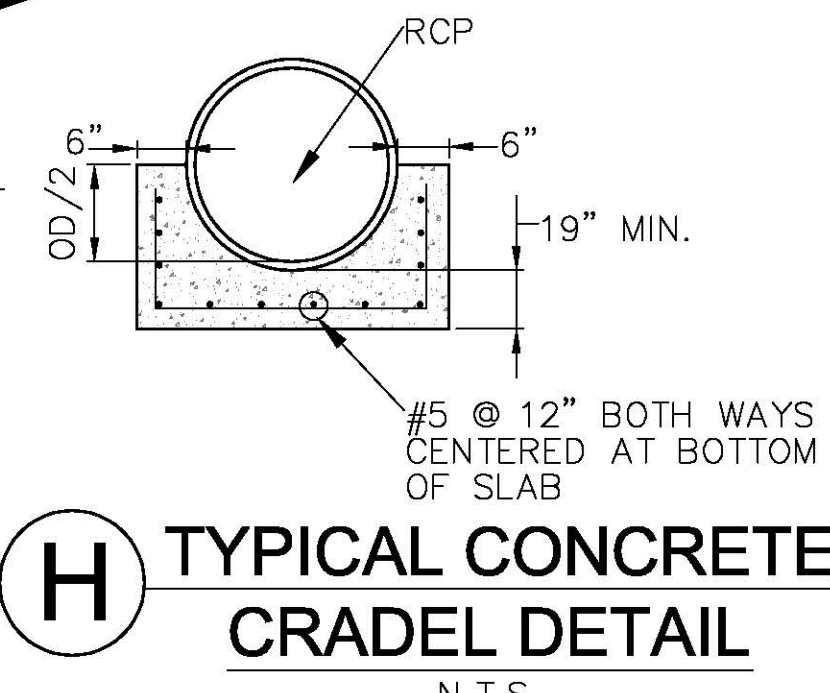
ENLARGEMENT DETAIL 'A' N.T.S.



SECTION B-B N.T.S.

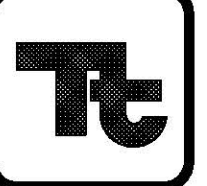


G TYPICAL GATEWELL IMPROVEMENTS DETAIL (PER USIBWC COR DIRECTION) N.T.S.




H TYPICAL CONCRETE CRADEL DETAIL N.T.S.

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TETRA TECH
17885 VON KARMAN AVE, SUITE 500
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PHONE: (949) 809-5000
FAX: (949) 809-5010



PLANS PREPARED BY:

DESIGNED: EM FILE: YHC, JL, AWG
DRAWN: EM RECOMMENDED: IGP
CHECKED: YHC, JL, AWG APPROVED: MAO

28077-000-A0

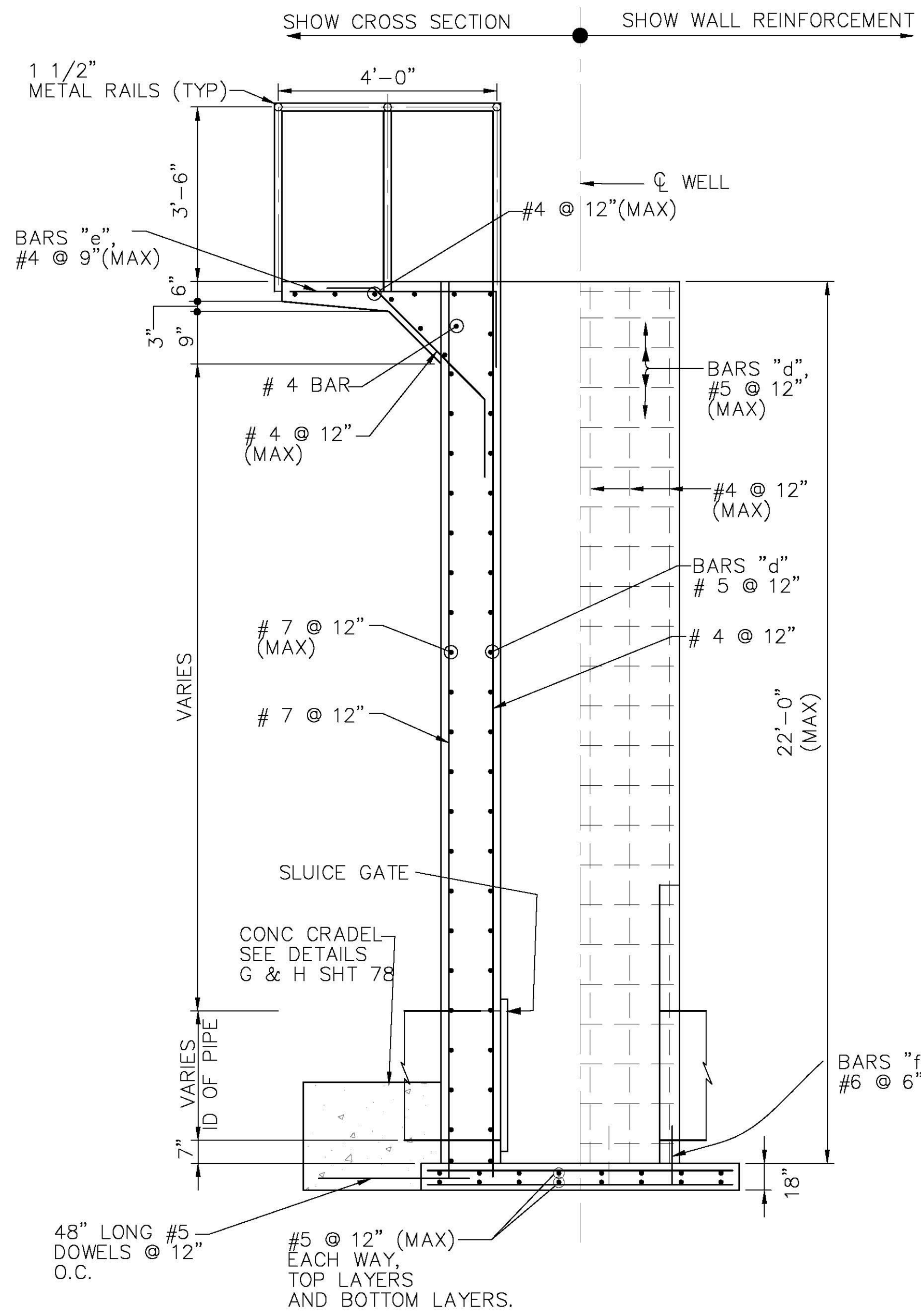
INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
GATEWELL IMPROVEMENT AND
OPTIONAL DETAILS

TEXAS REGISTRATION NO. F-3924

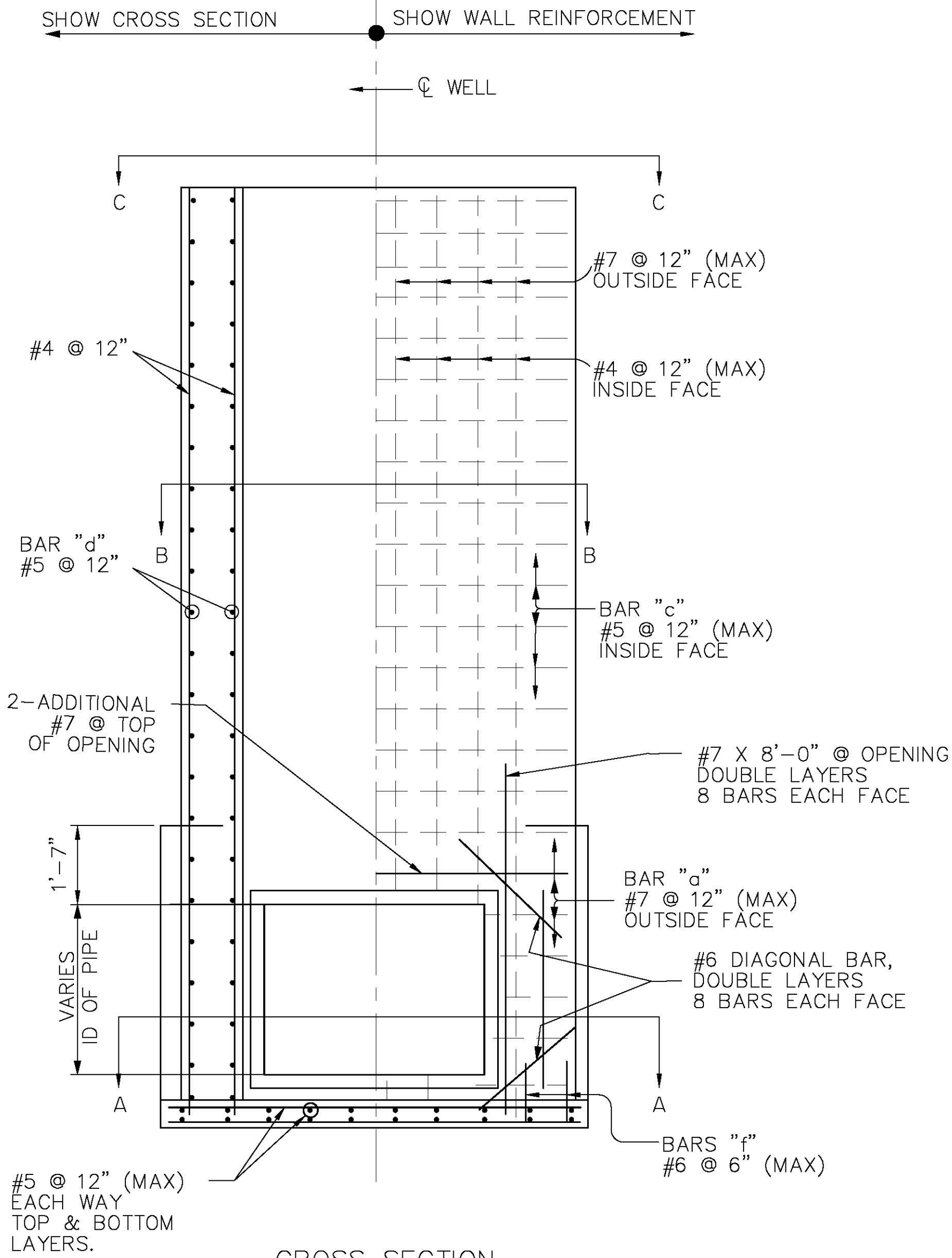
"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

DESIGNED: EM FILE: YHC, JL, AWG
DRAWN: EM RECOMMENDED: IGP
CHECKED: YHC, JL, AWG APPROVED: MAO

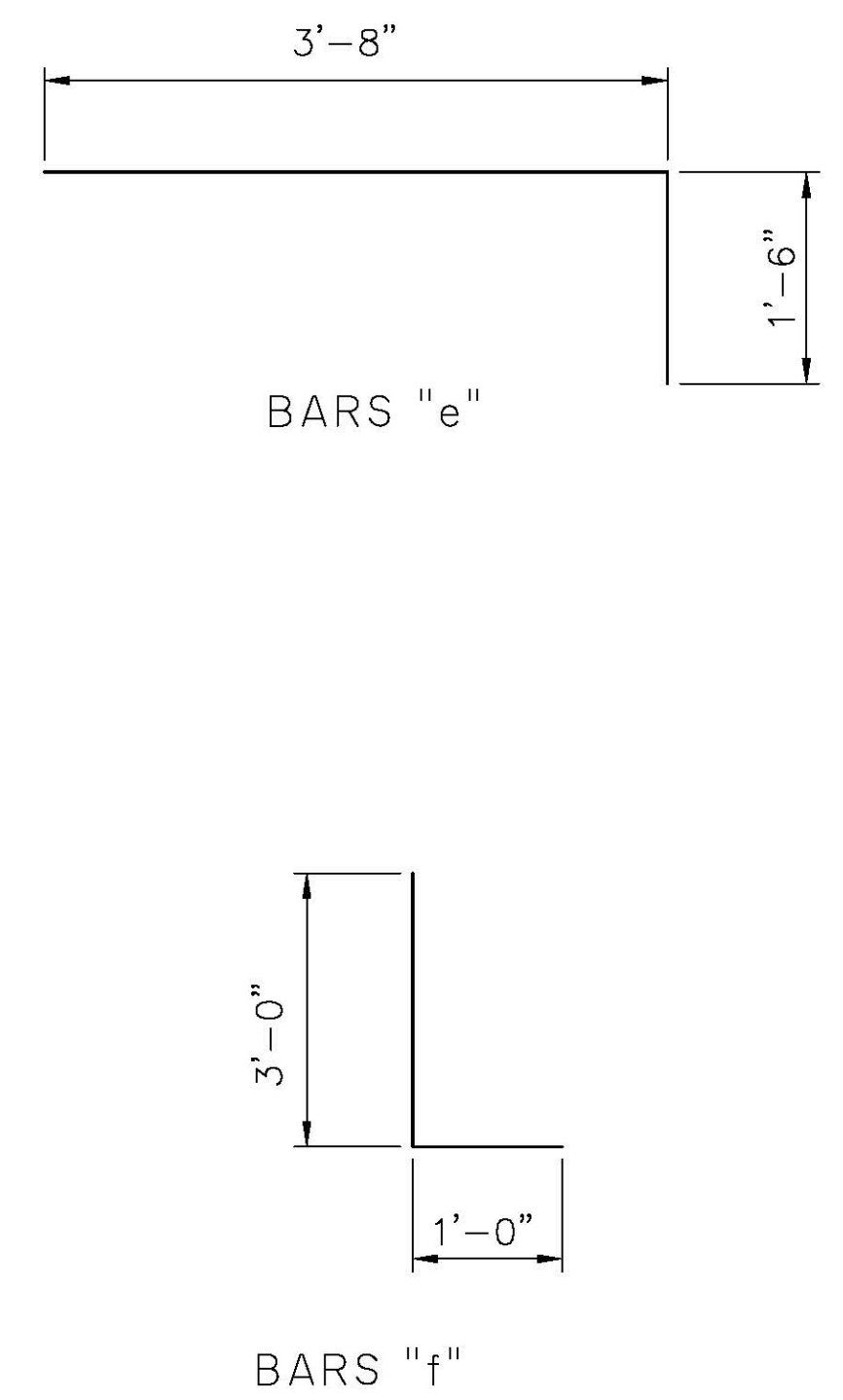
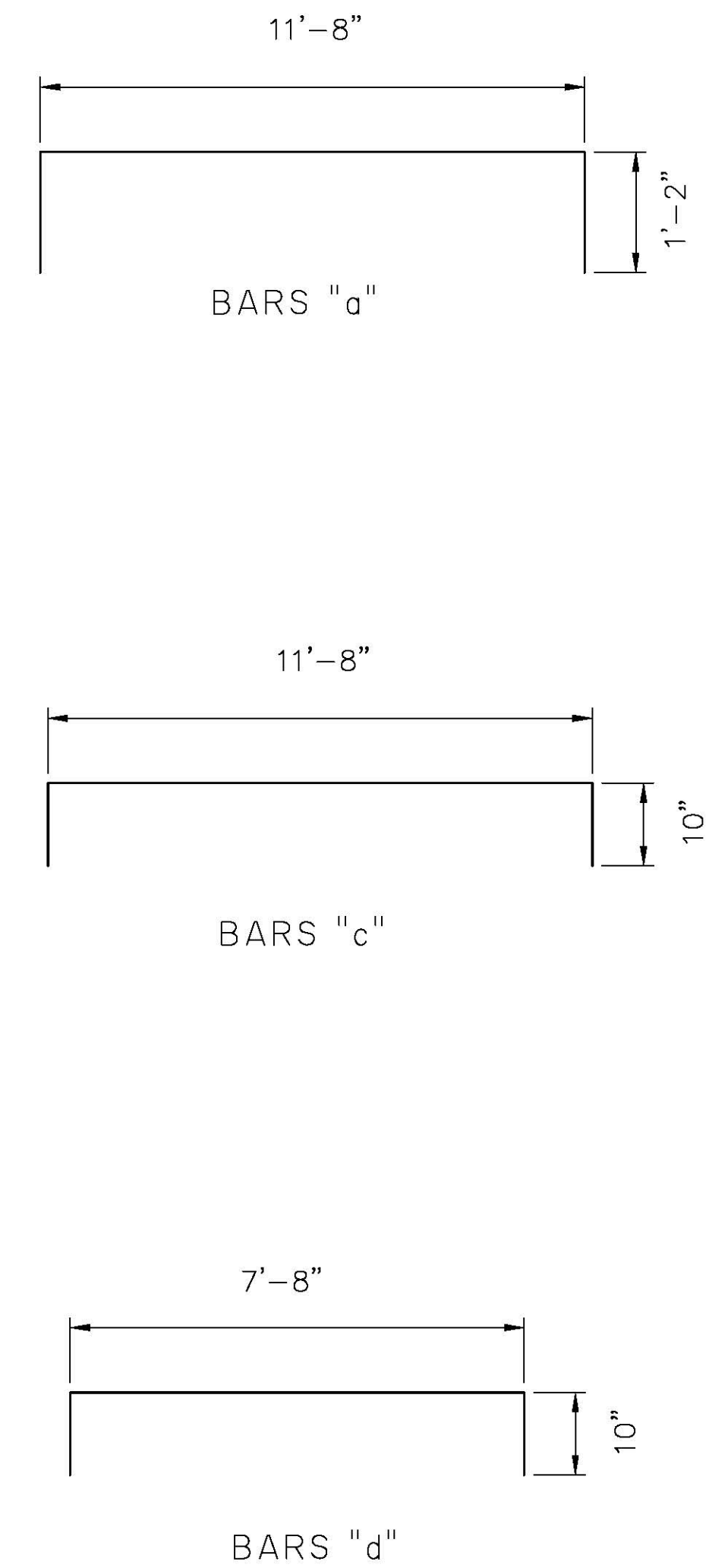
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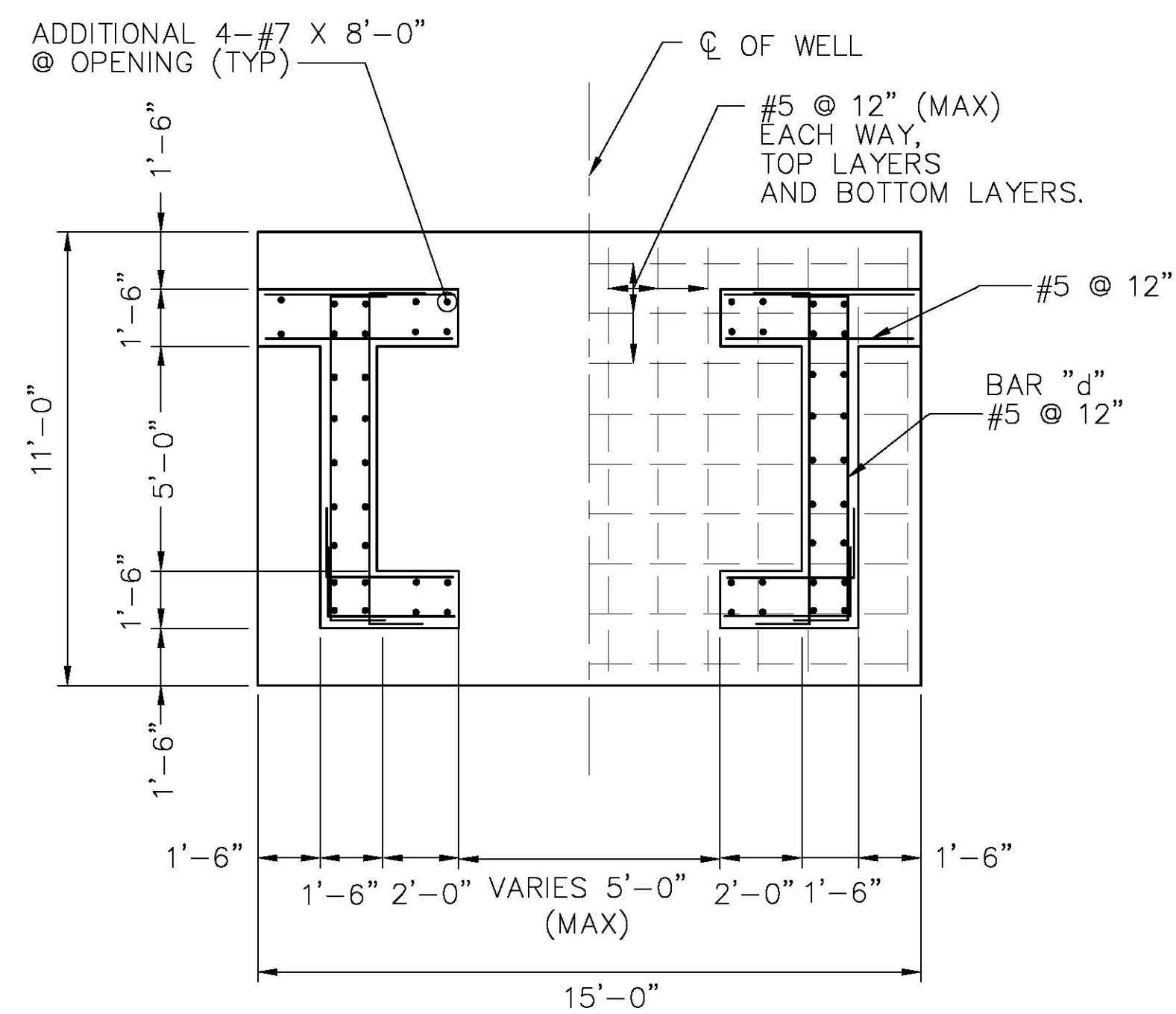
LONGITUDINAL SECTION



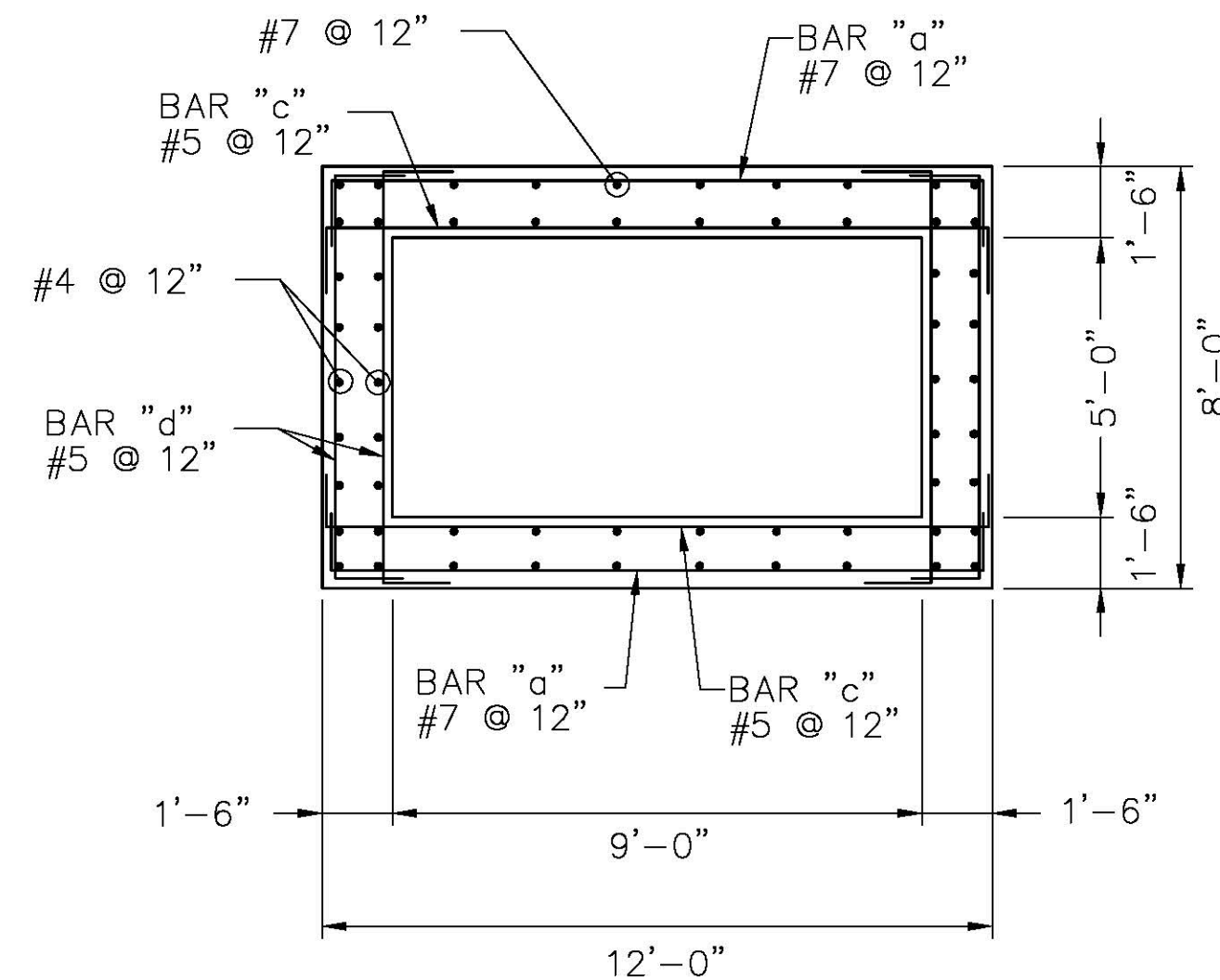
CROSS SECTION



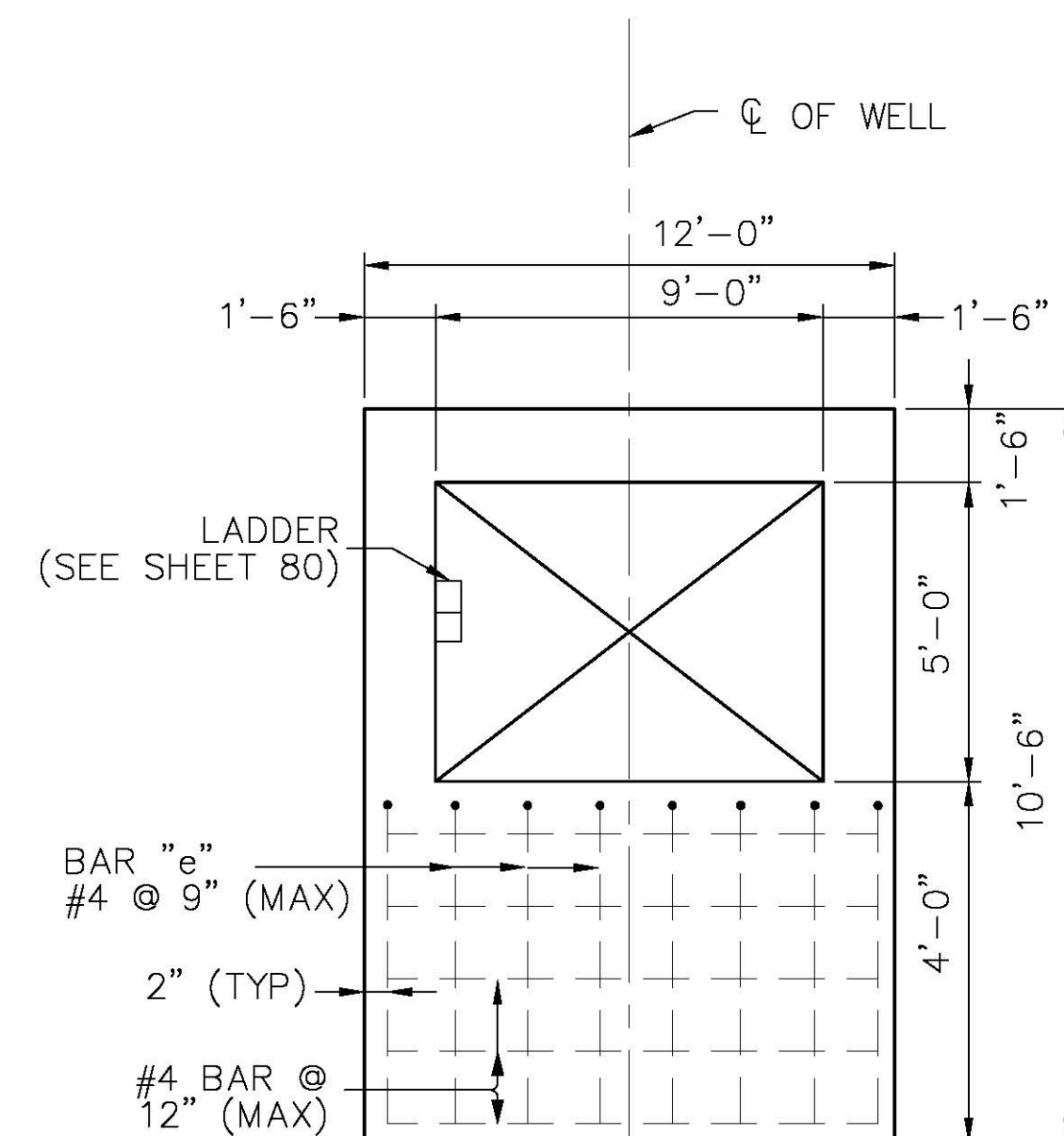
- NOTE:
1. ALL REBARS ARE #4 UNLESS NOTED OTHERWISE (UNO.)
 2. ALL REBAR SHALL BE ASTM 615 GRADE 60.
 3. ALL CONCRETE SHALL BE CLASS "C" FC=3600 PSI
 4. DESIGN PLATFORM LIVE LOAD 150 LBS/SF



A-A
(FOOTING PLAN)



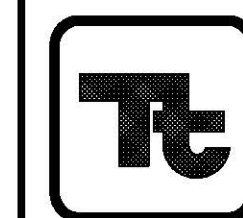
B-B
(WALL CROSS SECTION)



C-C
(OPERATING PLATFORM PLAN)

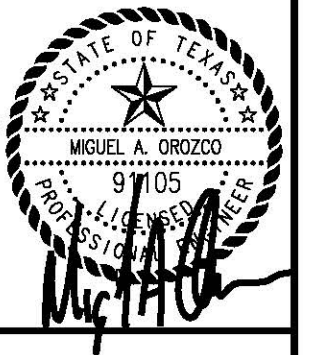


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TEXAS REGISTRATION NO. F-3924

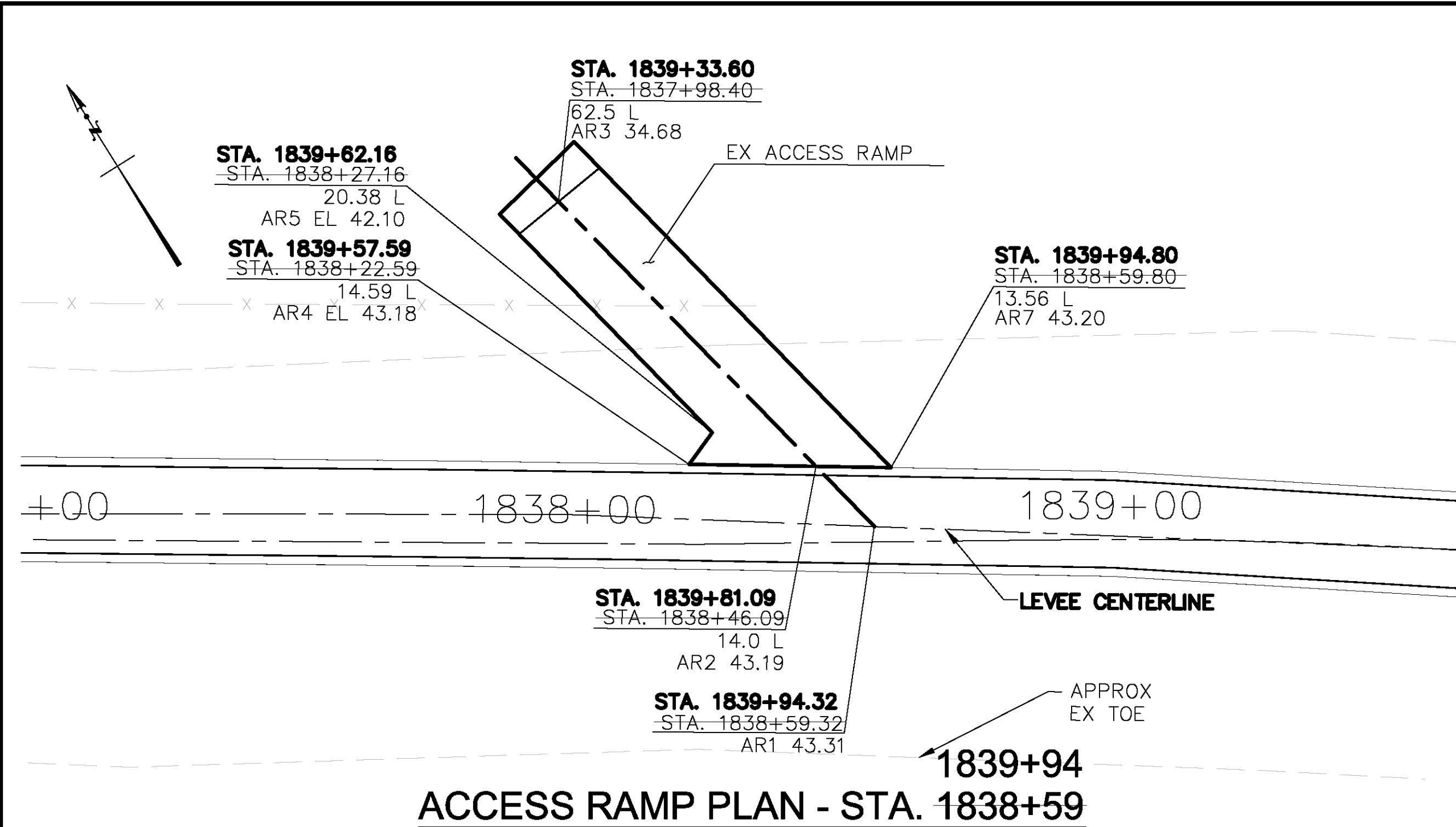


"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

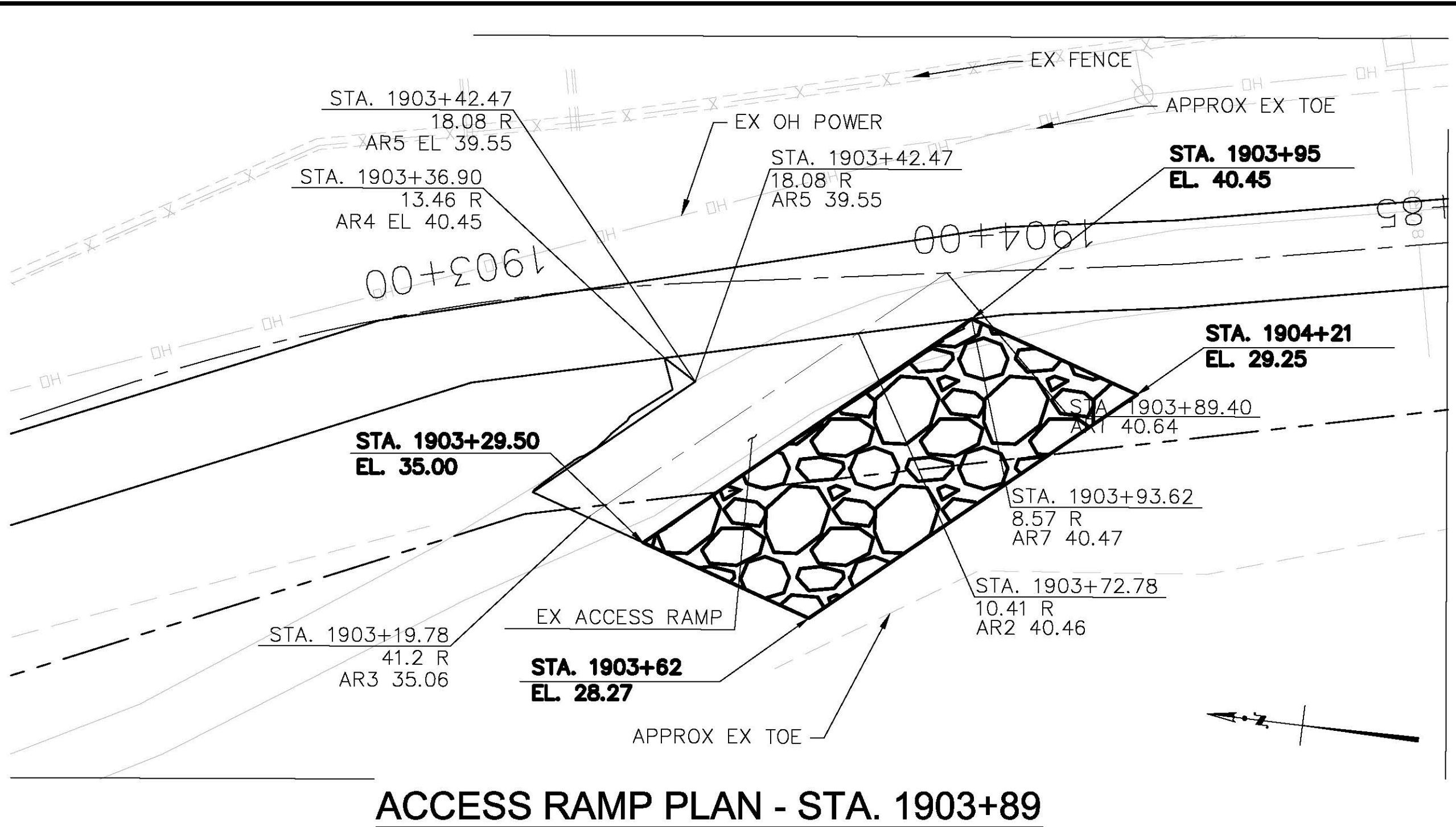
INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
OPTIONAL DETAILS (1)
GATEWELL TYPE A

DESIGNED	EM	FILE	
DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JL, AWG	APPROVED	MAO

28078-000-A0 SHEET 79 OF 299



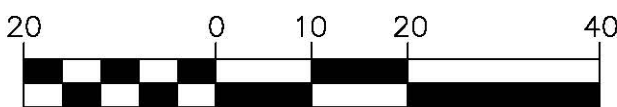
ACCESS RAMP PLAN - STA. 1838+59



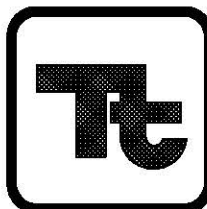
ACCESS RAMP PLAN - STA. 1903+89

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SCALE: 1"=20'



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TEXAS REGISTRATION NO. F-3924

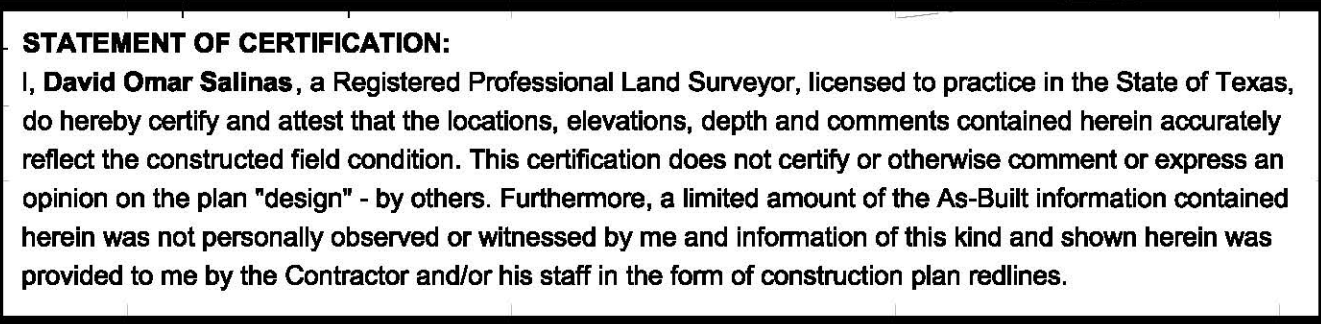




"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
ACCESS RAMPS DETAILS (9)

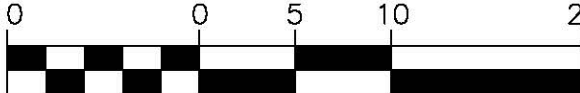
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DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JL, AWG	APPROVED	MAO

28096-000-A0 SHEET 97 OF 299

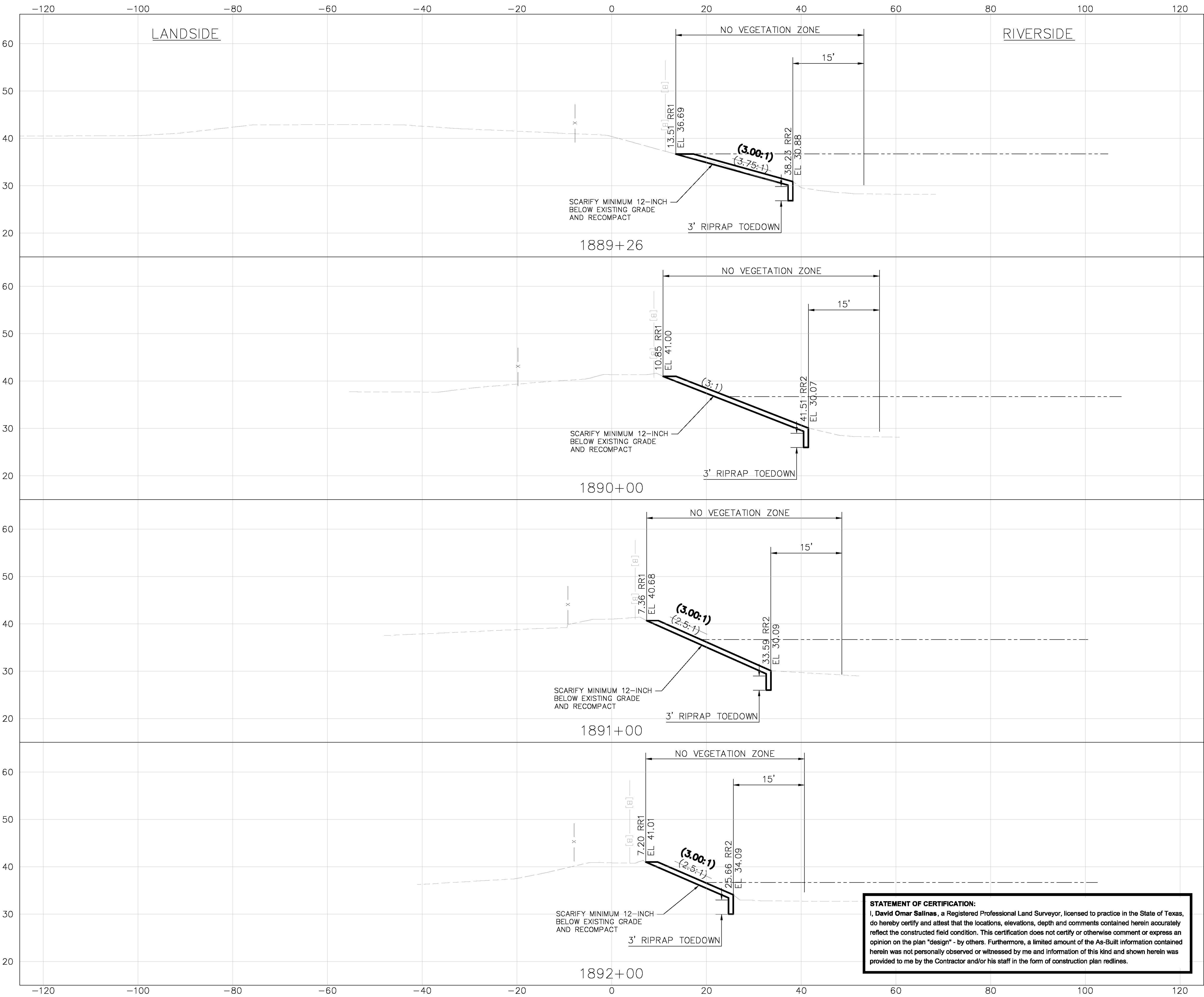


----	TOP SOIL
=====	IMPERVIOUS LEVEE
- - - - -	EX GROUND
=====	EXCAVATION LIMIT
-----	100-WSE
— [B] — [B] —	BORDER FENCE
— X — X —	EX FENCE
	ACCESS ROAD CENTERLINE
	TOE DRAIN

SCALE: 1"=10' (HOR)
1"=10' (VERT)



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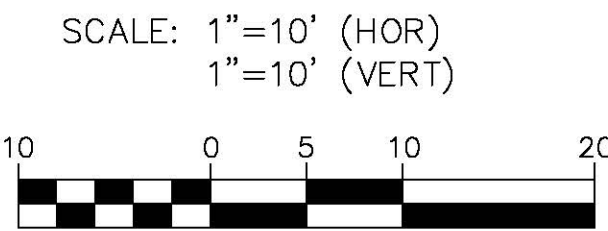



STATEMENT OF CERTIFICATION:
I, **David Omar Salinas**, a Registered Professional Land Surveyor, licensed to practice in the State of Texas, do hereby certify and attest that the locations, elevations, depth and comments contained herein accurately reflect the constructed field condition. This certification does not certify or otherwise comment or express an opinion on the plan "design" - by others. Furthermore, a limited amount of the As-Built information contained herein was not personally observed or witnessed by me and information of this kind and shown herein was provided to me by the Contractor and/or his staff in the form of construction plan redlines.

- NOTES:**
- SEE SHEET 2 FOR GENERAL NOTES.
 - SEE SHEET 3 FOR ABBREVIATIONS.
 - SEE SHEET 76 FOR RIPRAP DETAILS.
 - SEE SHEET 74 THRU 76 FOR TYPICAL SECTIONS.
 - SEE SHEET 86 FOR TOE DRAIN DETAIL.
 - FLEX BASE ON LEVEE NOT SHOWN.
 - FEMA/USACE NO VEGETATION ZONE, REMOVE ALL VEGETATION WITH A STEM GREATER THAN 1/2-INCH THICK IN DIAMETER.
 - OFFSET DIMENSIONS TO ROW AS SHOWN ARE APPROXIMATE, FOR GENERAL REFERENCE ONLY, AND SHOULD NOT BE UTILIZED TO DETERMINE ACTUAL ROW LIMITS.

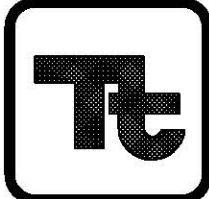
LEGEND

-----	TOP SOIL
=====	IMPERVIOUS LEVEE
- - - - -	EX GROUND
=====	EXCAVATION LIMIT
- - - - -	100-WSE
- - - - -	CENTER LINE
[B] - [B]	BORDER FENCE
X - X	EX FENCE
⊕	ACCESS ROAD CENTERLINE
	TOE DRAIN
	RIPRAP






PLANS PREPARED BY:



TETRA TECH
17885 VON KARMAN AVE, SUITE 500
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FAX: (949) 809-5010



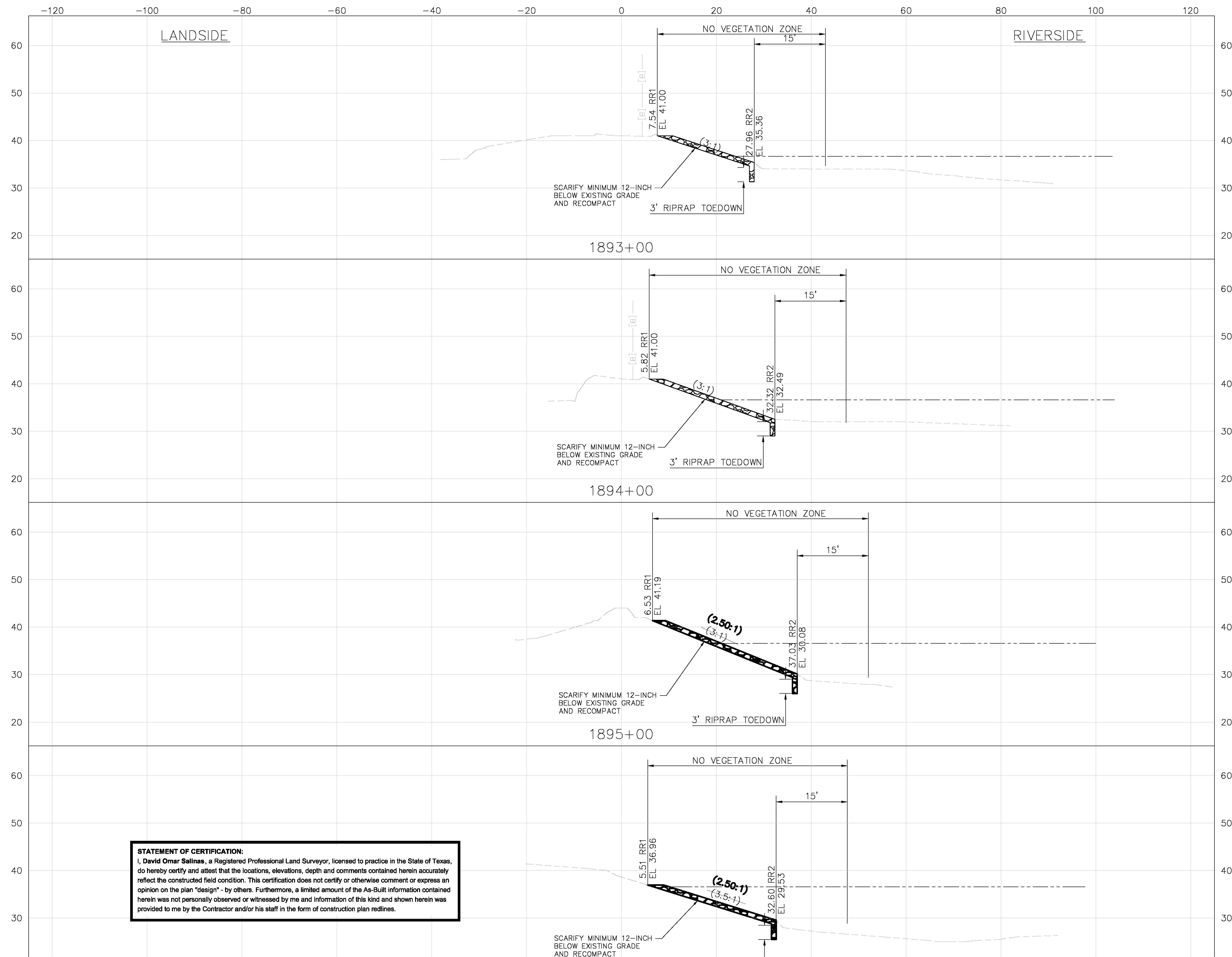
TEXAS REGISTRATION NO. F-3924

"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
**IMPERVIOUS LEVEE/
EMBANKMENT CROSS SECTIONS (146)**
STA. 1889+26 TO STA. 1892+00

DESIGNED	EM	FILE
DRAWN	EM	RECOMMENDED
CHECKED	YHC, JLL, AWG	APPROVED
		MAO

28242-000-A0 SHEET 243 OF 299



STATEMENT OF CERTIFICATION:
I, **David Omar Salinas**, a Registered Professional Land Surveyor, licensed to practice in the State of Texas, do hereby certify and attest that the locations, elevations, depth and comments contained herein accurately reflect the constructed field condition. This certification does not certify or otherwise comment or express an opinion on the plan "design" - by others. Furthermore, a limited amount of the As-Built information contained herein was not personally observed or witnessed by me and information of this kind and shown herein was provided to me by the Contractor and/or his staff in the form of construction plan redlines.

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- SEE SHEET 2 FOR GENERAL NOTES.
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 - SEE SHEET 74 FOR BENCHING AND EXCAVATION DETAILS.
 - SEE SHEET 76 FOR RIPRAP DETAILS.
 - SEE SHEET 74 THRU 76 FOR TYPICAL SECTIONS.
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 - OFFSET DIMENSIONS TO ROW AS SHOWN ARE APPROXIMATE, FOR GENERAL REFERENCE ONLY, AND SHOULD NOT BE UTILIZED TO DETERMINE ACTUAL ROW LIMITS.

LEGEND

-----	TOP SOIL
=====	IMPERVIOUS LEVEE
- - - - -	EX GROUND
-----	EXCAVATION LIMIT
-----	100-WSE
-----	CONTROL LINE
---[B]---[B]---	BORDER FENCE
---x---x---	EX FENCE
⊙	ACCESS ROAD CENTERLINE
	TOE DRAIN

SCALE: 1"=10' (HOR)
1"=10' (VERT)

PLANS PREPARED BY:

TETRA TECH
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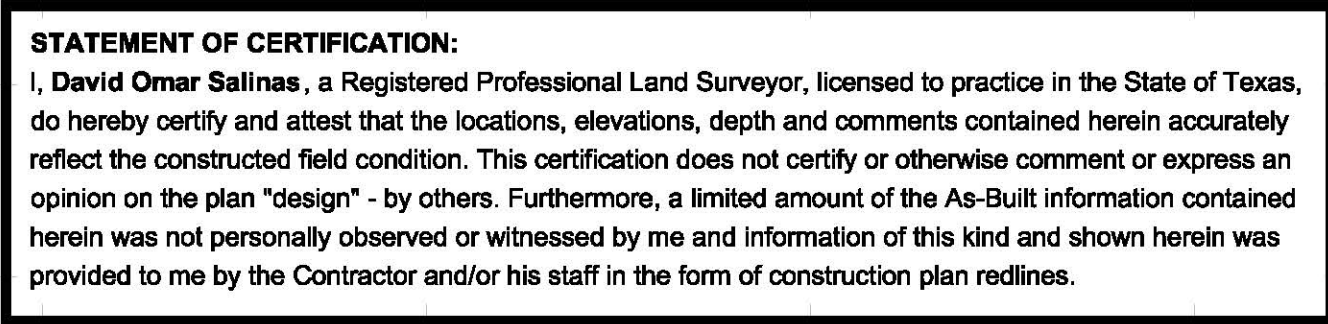
TEXAS REGISTRATION NO. F-3924

"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
**IMPERVIOUS LEVEE/
EMBANKMENT CROSS SECTIONS (147)**
STA. 1893+00 TO STA. 1896+00


DESIGNED	EM	FILE	
DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JLL, AWG	APPROVED	MAO

28243-000-A0 SHEET 244 OF 299



- LEGEND

SCALE: 1"=10' (HOR)
1"=10' (VERT)



A horizontal graphic scale bar with alternating black and white segments. Above the bar, numerical labels are placed at 10, 0, 5, 10, and 20 feet. The bar is divided into segments of 10 feet, 5 feet, and 5 feet.

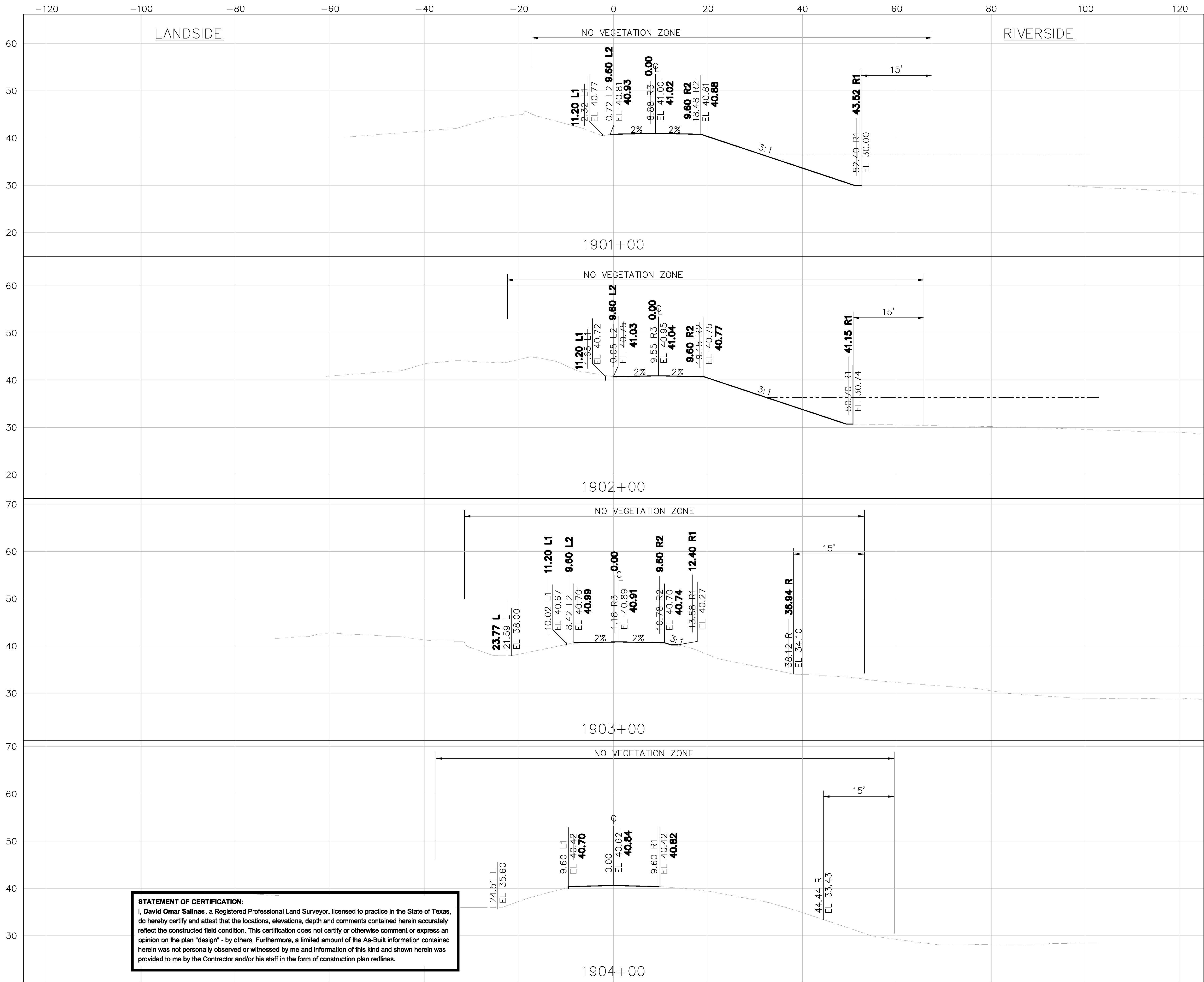


"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
IMPERVIOUS LEVEE/
EMBANKMENT CROSS SECTIONS (148)
STA. 1897+00 TO STA. 1900+00

DESIGNED	EM	FILE	
DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JL, AWG	APPROVED	MAO

28244-000-A0 SHEET 245 OF 299



STATEMENT OF CERTIFICATION:
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LEGEND

-----	TOP SOIL
=====	IMPERVIOUS LEVEE
- - - - -	EX GROUND
-----	EXCAVATION LIMIT
-----	100-WSE
-----	CONTROL LINE
---[B]---	BORDER FENCE
---x---	EX FENCE
⊙	ACCESS ROAD CENTERLINE
	TOE DRAIN

SCALE: 1"=10' (HOR)
1"=10' (VERT)

10 0 5 10 20

INTERNATIONAL BOUNDARY AND WATER COMMISSION

PLANS PREPARED BY:

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TEXAS REGISTRATION NO. F-3924

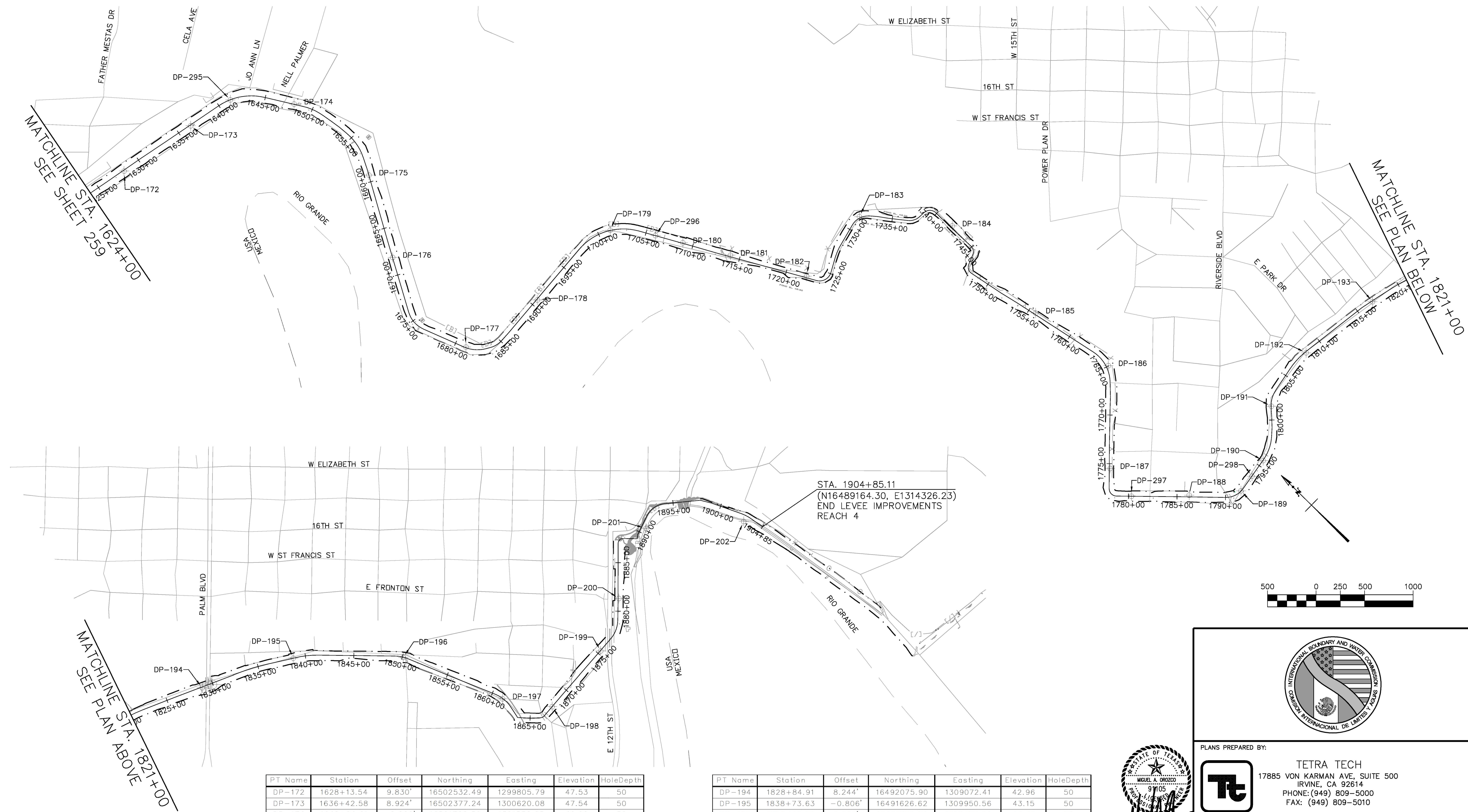
"RECORD DRAWINGS"
PROJECT No.: IBM13C0001

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
IMPERVIOUS LEVEE/
EMBANKMENT CROSS SECTIONS (149)
STA. 1901+00 TO STA. 1904+00

DESIGNED	EM	FILE	
DRAWN	EM	RECOMMENDED	IGP
CHECKED	YHC, JLL, AWG	APPROVED	MAO

28245-000-A0


SHEET 246 OF 299

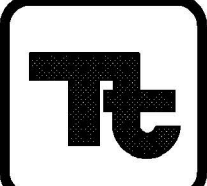


PT Name	Station	Offset	Northing	Easting	Elevation	HoleDepth
DP-172	1628+13.54	9.830'	16502532.49	1299805.79	47.53	50
DP-173	1636+42.58	8.924'	16502377.24	1300620.08	47.54	50
DP-174	1648+04.41	-2.222'	16501782.39	1301532.65	46.90	50
DP-175	1659+28.89	-1.202'	16500719.75	1301560.48	45.24	49.8
DP-176	1668+12.04	-1.592'	16499946.91	1301133.13	44.90	50
DP-177	1681+14.17	-7.112'	16498759.93	1301014.37	44.32	50
DP-178	1690+68.45	7.844'	16498583.21	1301877.45	44.56	50
DP-179	1701+26.10	-2.301'	16498560.82	1302916.14	43.74	50
DP-180	1708+93.09	-5.692'	16497940.04	1303353.96	44.05	50
DP-181	1714+01.12	-15.169'	16497502.21	1303610.05	44.04	50
DP-182	1722+14.23	-15.276'	16496794.55	1304012.00	44.85	50
DP-183	1731+62.47	-13.579'	16496843.69	1304830.71	44.71	50
DP-184	1742+06.23	-19.942'	16496099.62	1305438.98	45.24	50
DP-185	1755+75.77	-15.122'	16494856.54	1305412.17	44.55	50
DP-186	1764+96.00	-22.600'	16493944.78	1305558.05	44.22	50
DP-187	1775+50.42	-8.950'	16493183.00	1304823.20	44.10	50
DP-188	1786+24.55	-17.321'	16492413.76	1305204.45	43.69	50
DP-189	1791+77.93	-2.064'	16492067.25	1305612.97	43.21	50
DP-190	1795+65.76	3.334'	16492126.18	1305995.87	43.29	50
DP-191	1801+42.56	4.303'	16492461.60	1306450.76	43.91	50
DP-192	1808+18.69	11.145'	16492597.75	1307093.50	44.00	50
DP-193	1816+82.58	8.602'	16492486.04	1307948.82	43.91	50



PT Name	Station	Offset	Northing	Easting	Elevation	HoleDepth
DP-194	1828+84.91	8.244'	16492075.90	1309072.41	42.96	50
DP-195	1838+73.63	-0.806'	16491626.62	1309950.56	43.15	50
DP-196	1850+10.17	2.002'	16490831.54	1310757.04	43.39	50
DP-197	1861+19.89	4.600'	16489807.99	1311179.24	42.89	50
DP-198	1867+76.50	0.694'	16489388.51	1311484.29	42.78	50
DP-199	1875+36.47	5.148'	16489439.16	1312242.57	43.38	50
DP-200	1881+30.85	7.923'	16489689.54	1312756.49	42.58	50
DP-201	1890+61.31	47.587'	16490001.56	1313463.13	42.96	50
DP-202	1902+85.66	65.098'	16489339.93	1314225.65	39.68	50
DP-295	1641+33.56	1.701'	16502277.22	1301099.20	47.37	50
DP-296	1706+02.26	-0.573'	16498191.04	1303206.97	44.29	50
DP-297	1780+30.57	0.332'	16492826.01	1304776.35	44.10	50
DP-298	1793+67.77	0.358'	16492094.74	1305800.37	43.33	50

"RECORD DRAWINGS"
PROJECT No.: IBM13C0001



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TEXAS REGISTRATION NO. F-3924



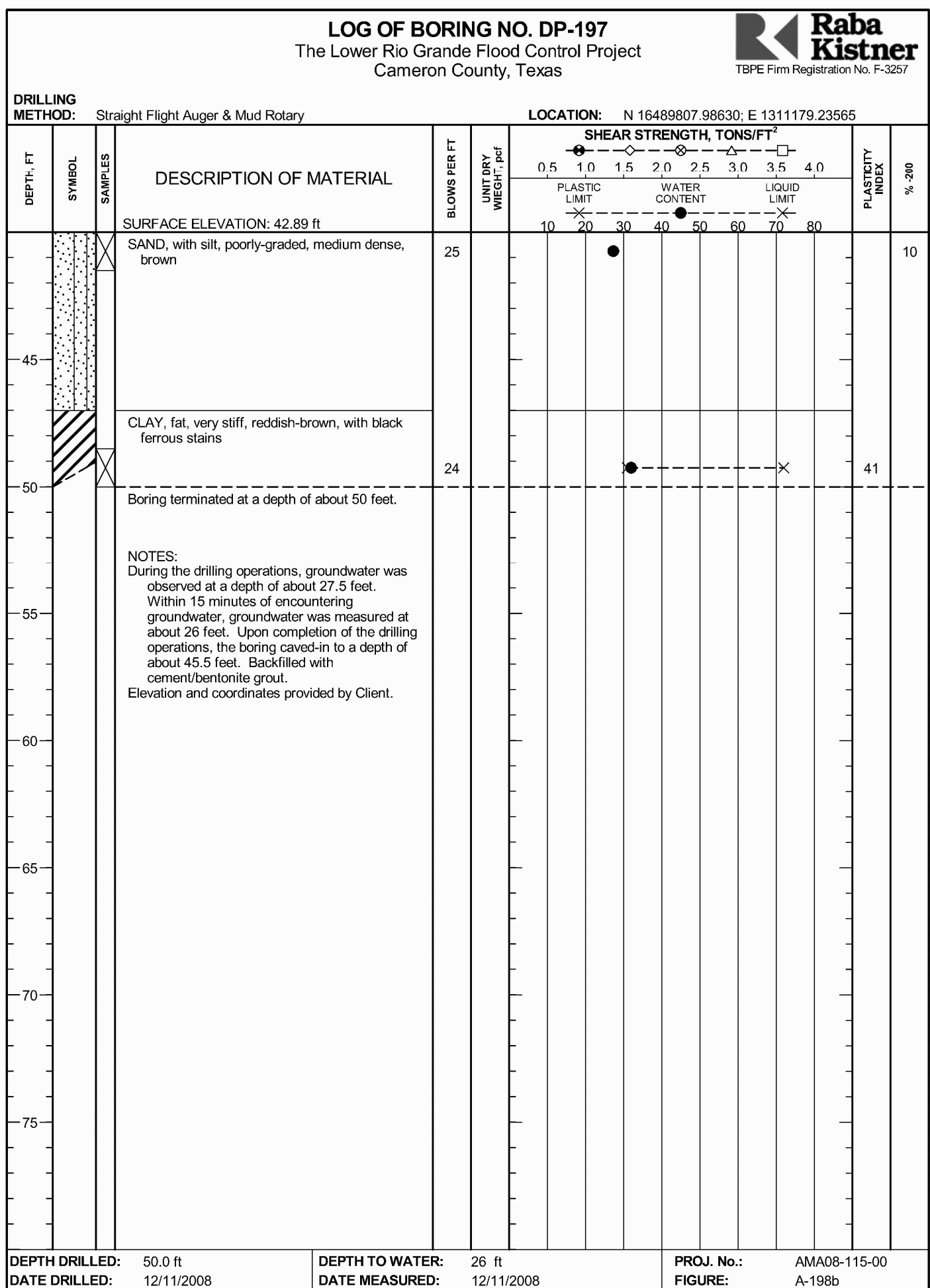
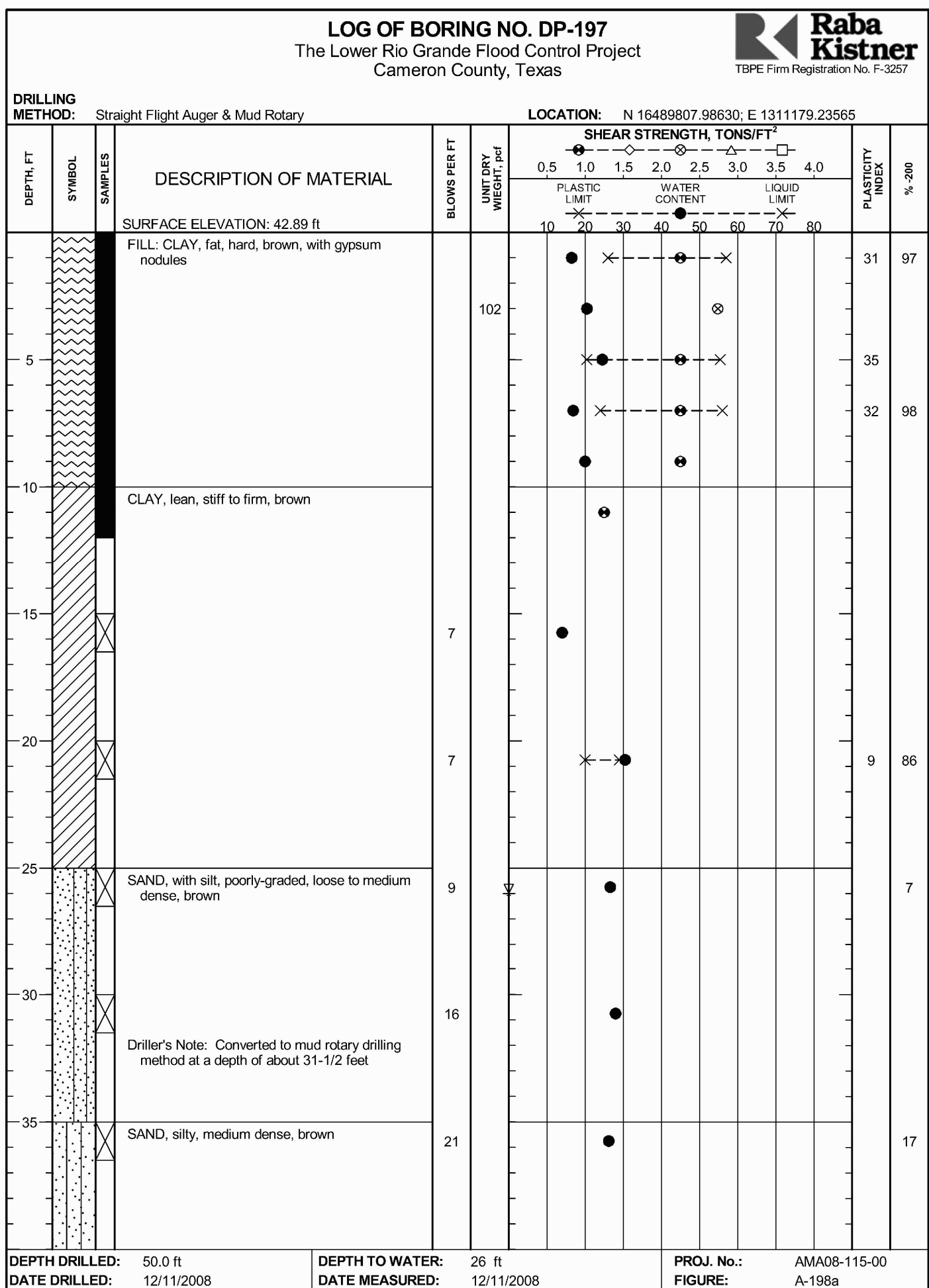
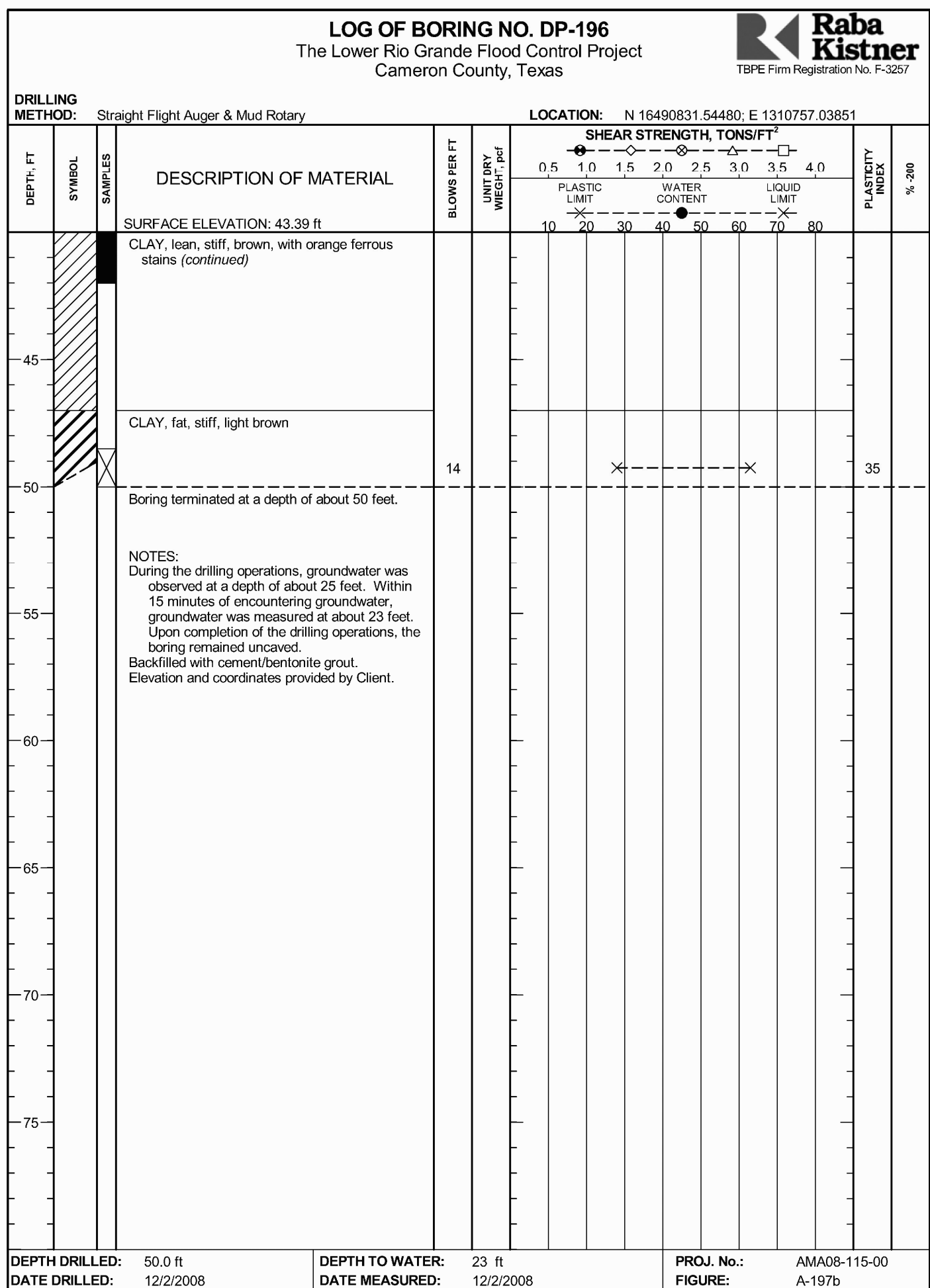
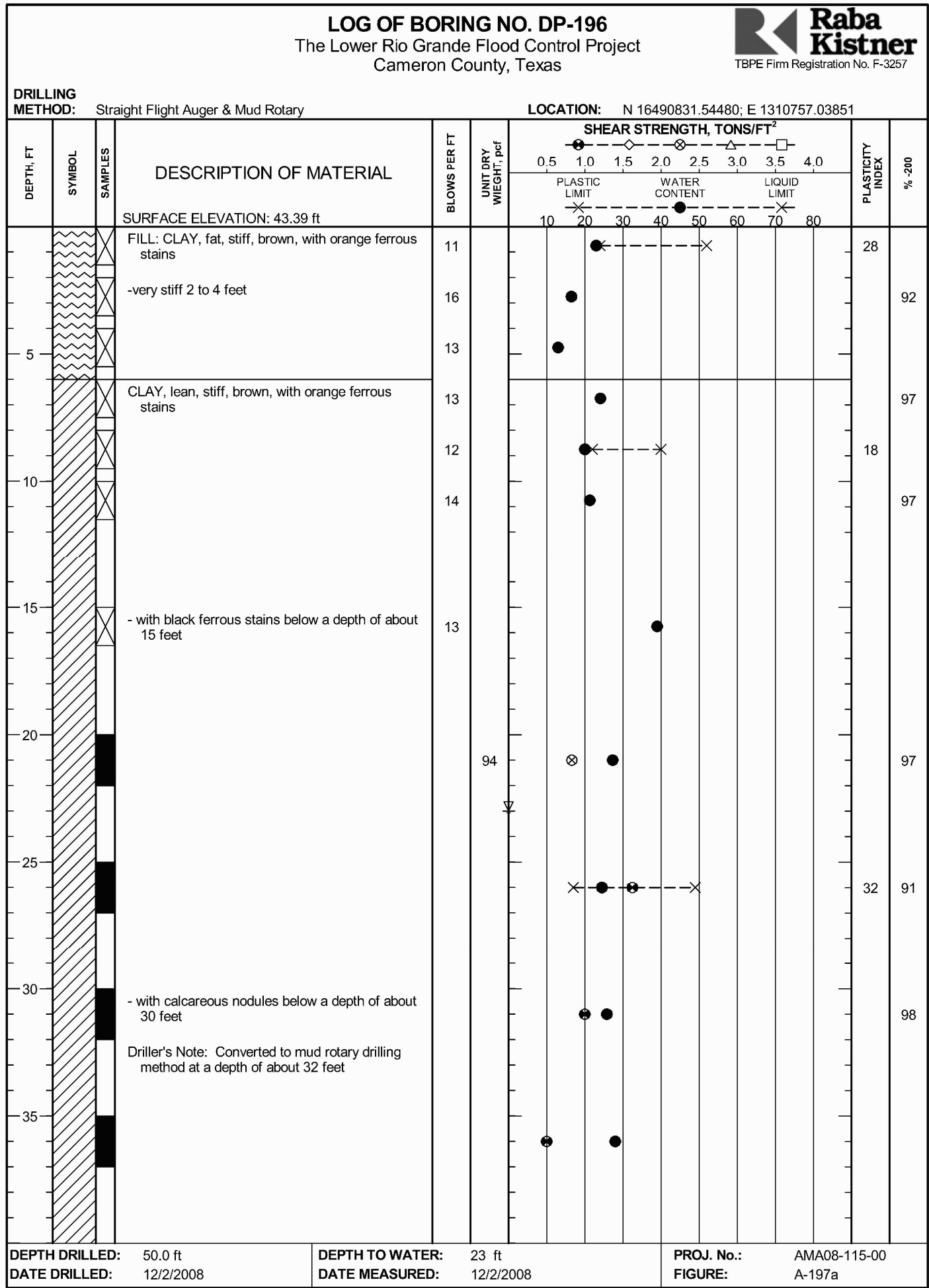
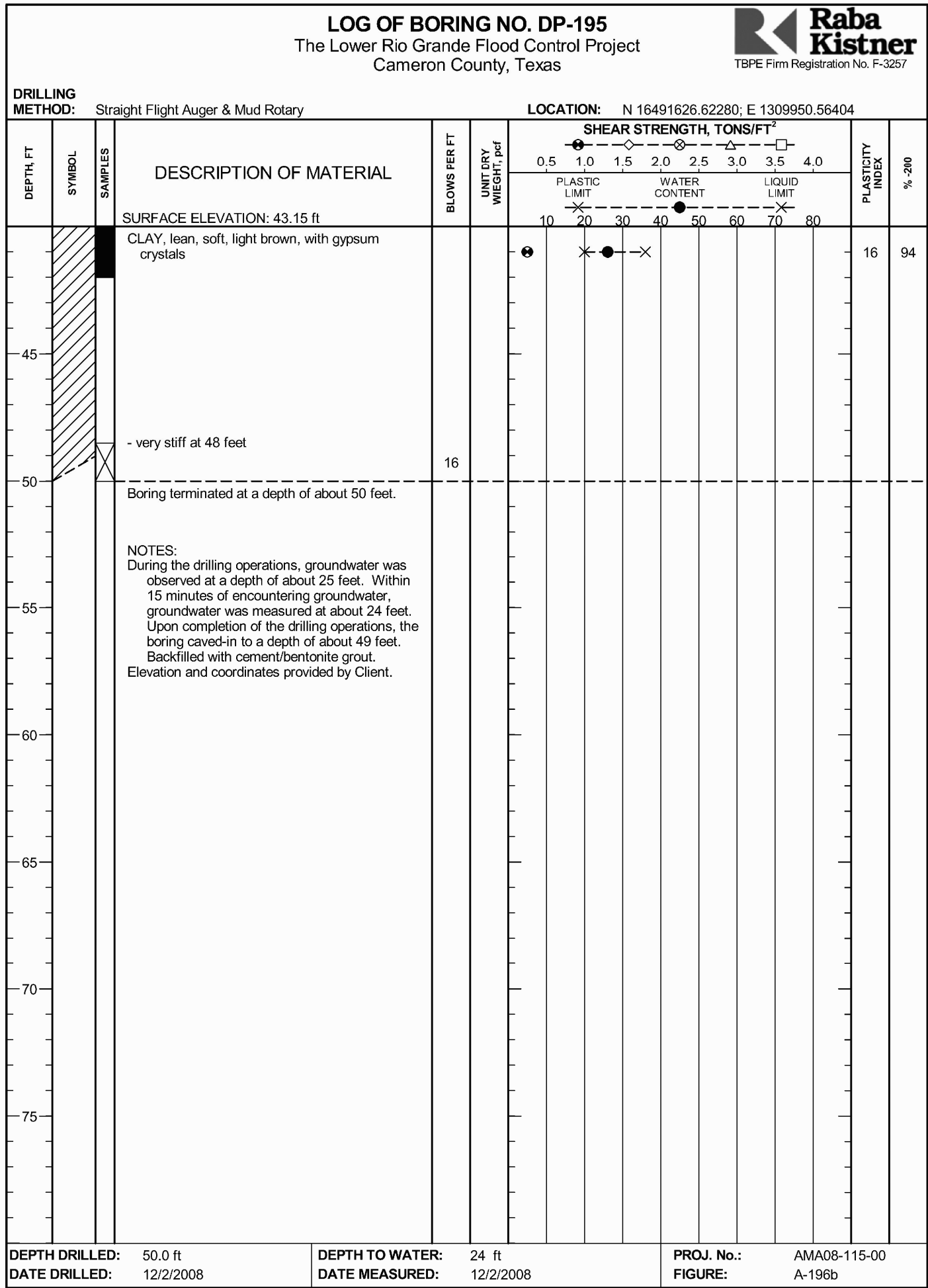
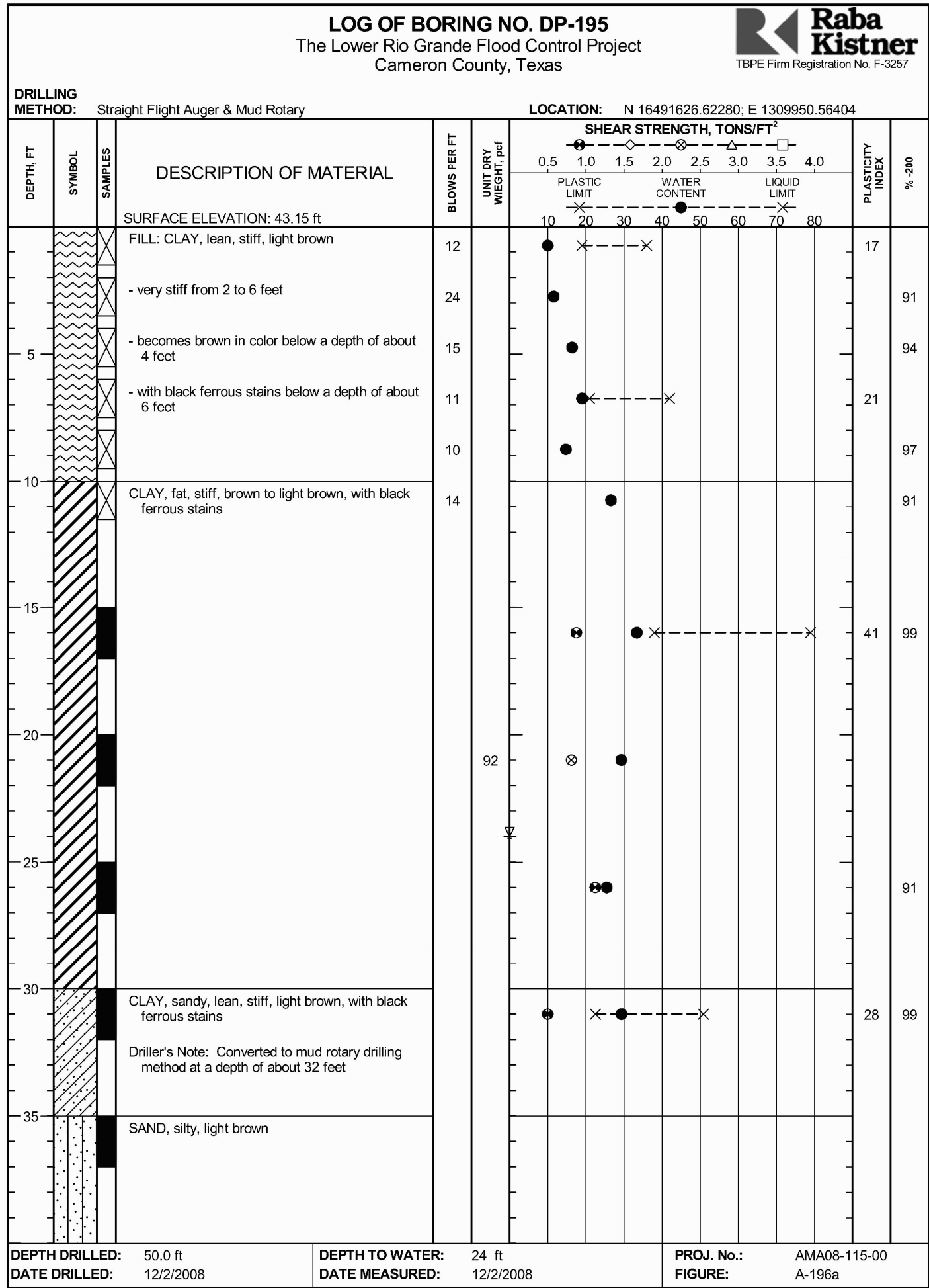
INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
GEOTECHNICAL BORING LOCATION (2)

STA. 1624+00.00 TO STA. 1904+85.11

DESIGNED	EM	FILE
DRAWN	EM	RECOMMENDED
CHECKED	YHC, JL, AWG	APPROVED

28259-000-A0

SHEET 260 OF 299



PLANS PREPARED BY:

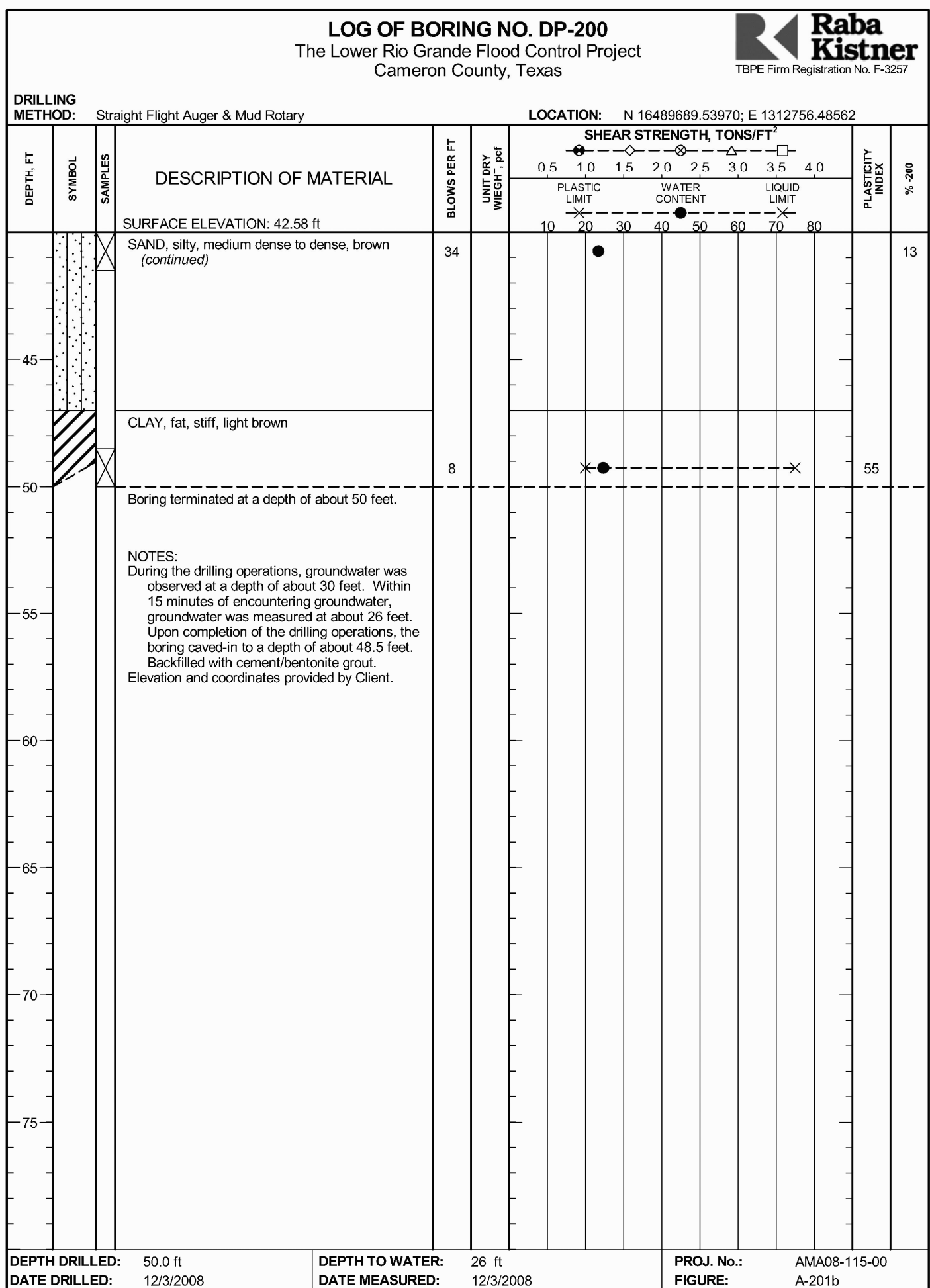
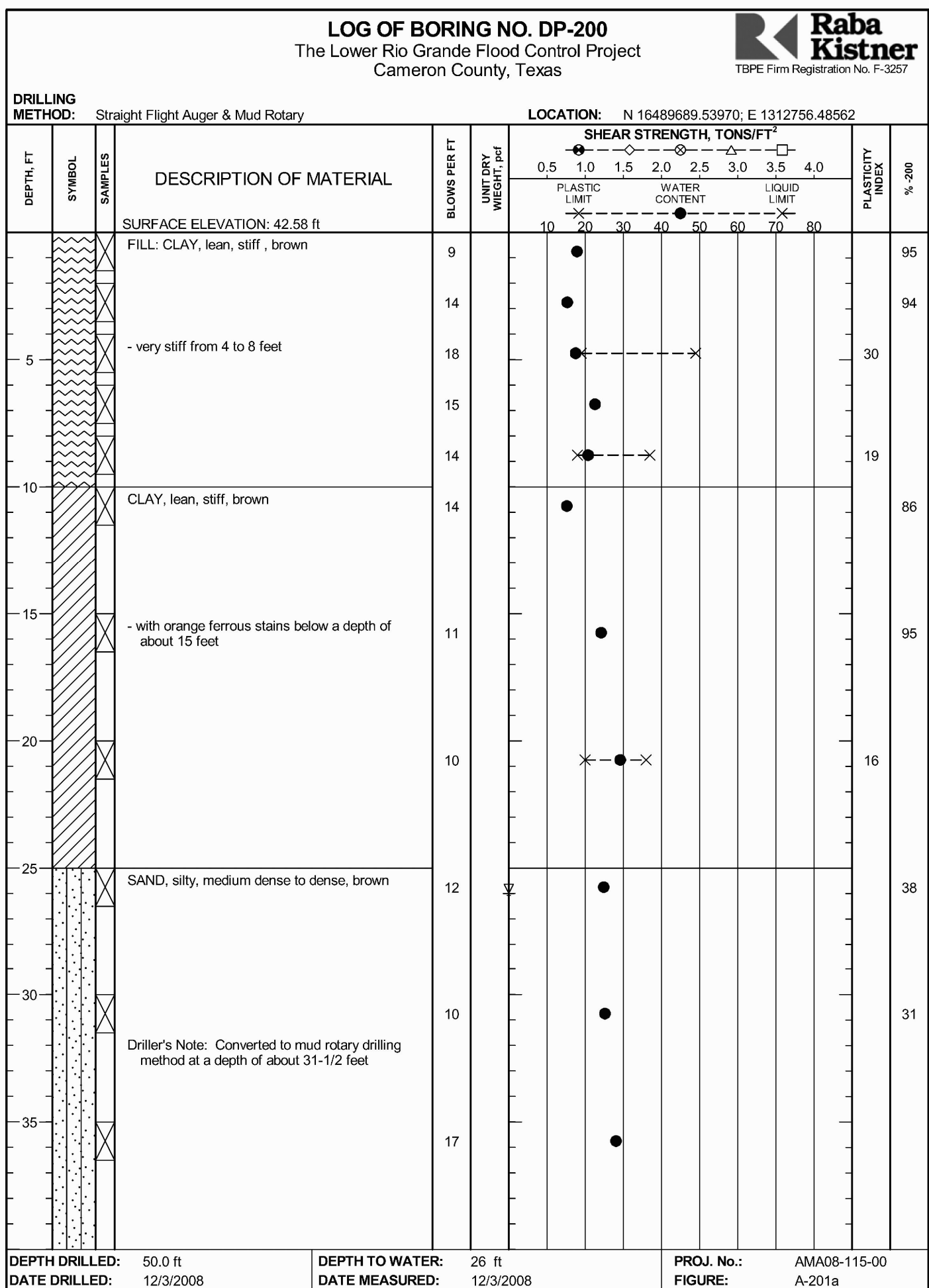
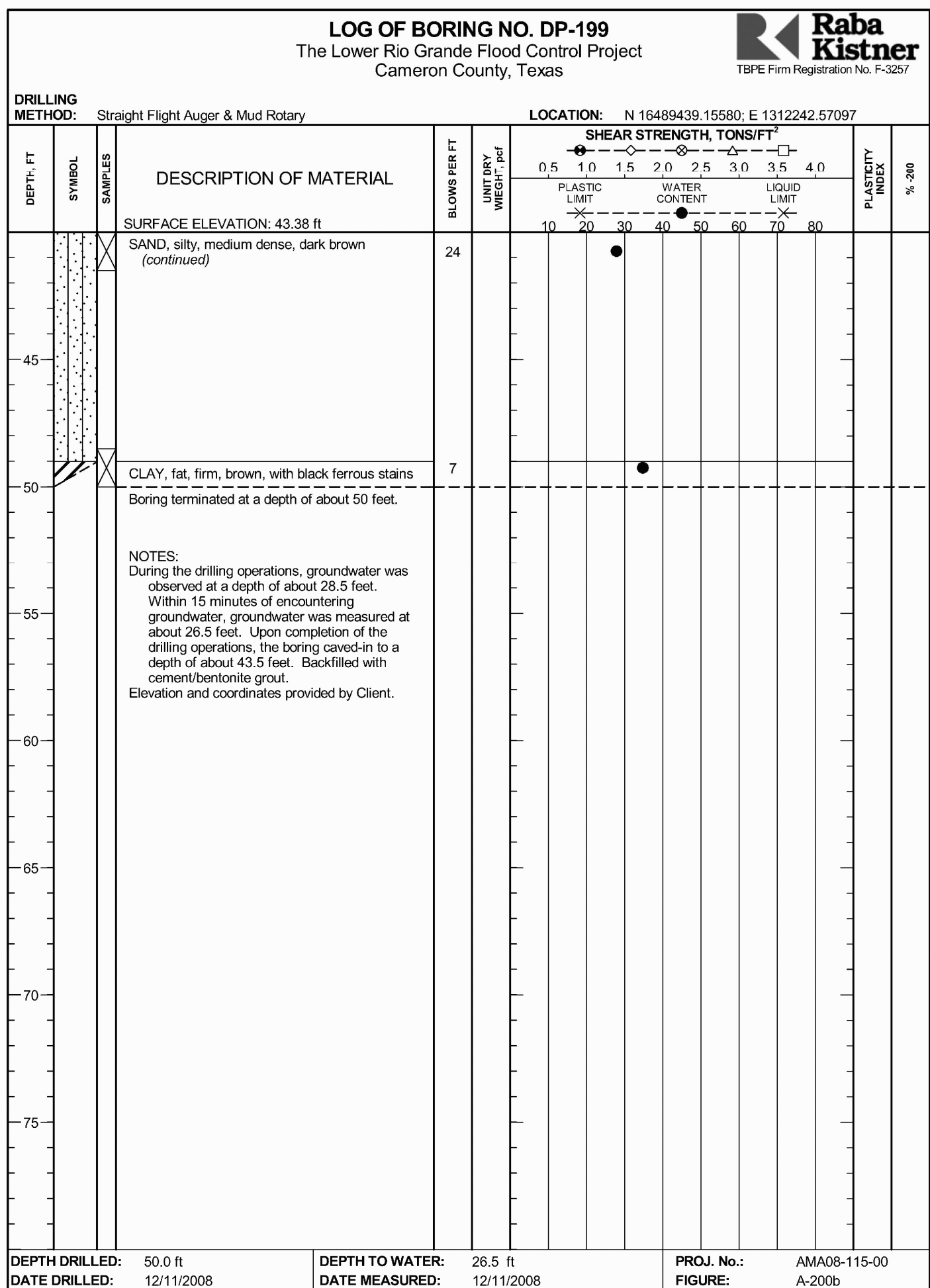
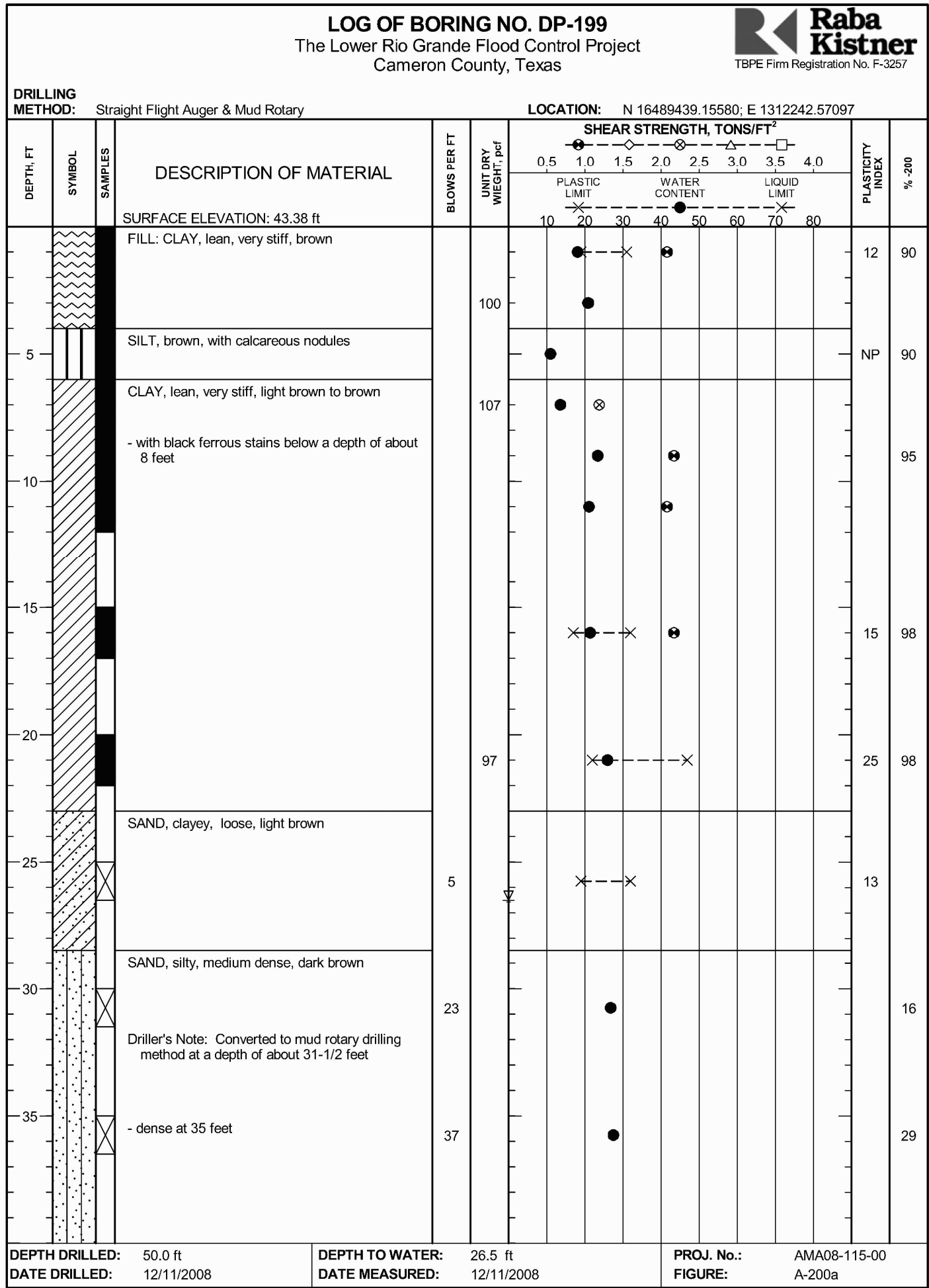
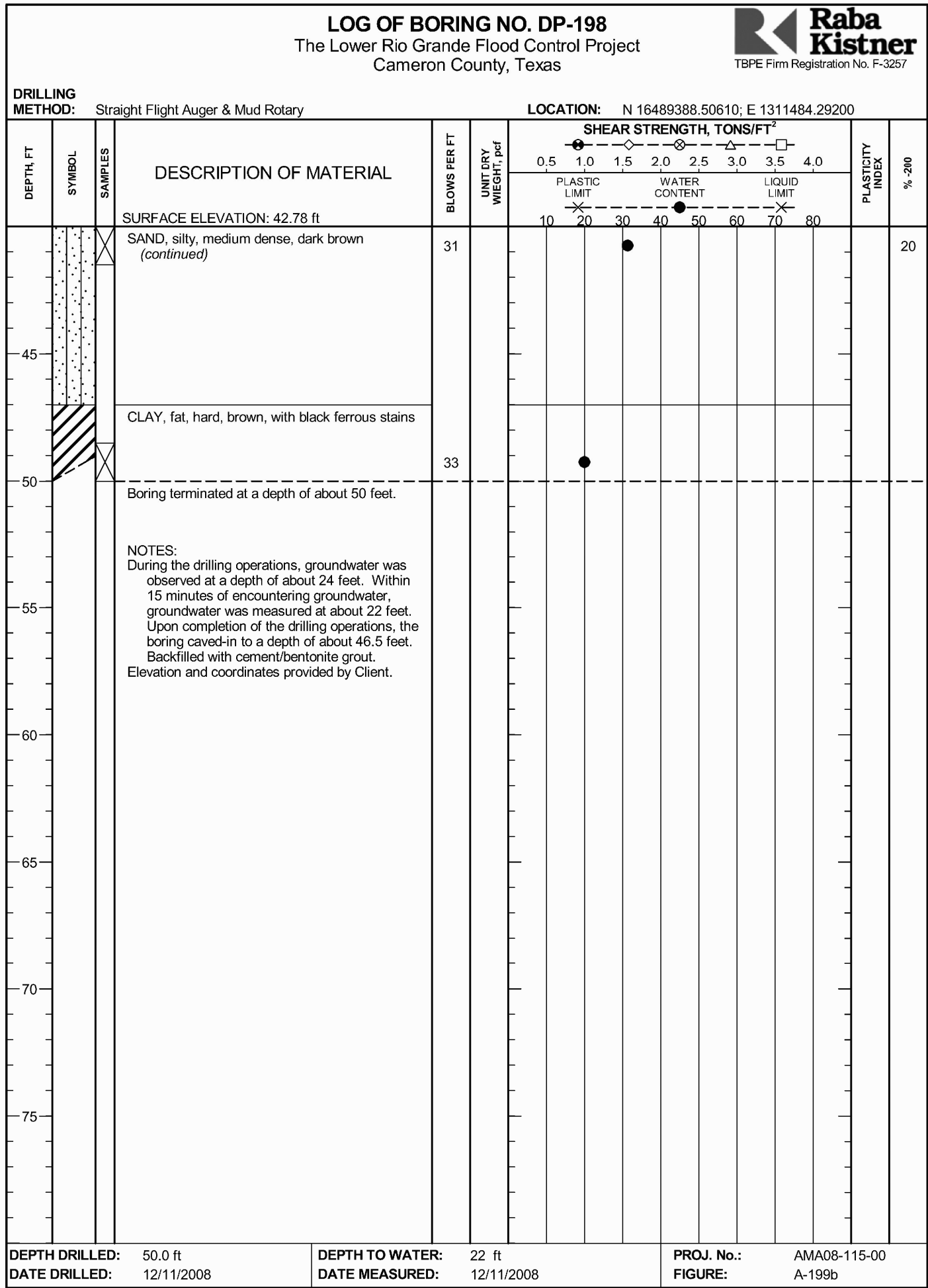
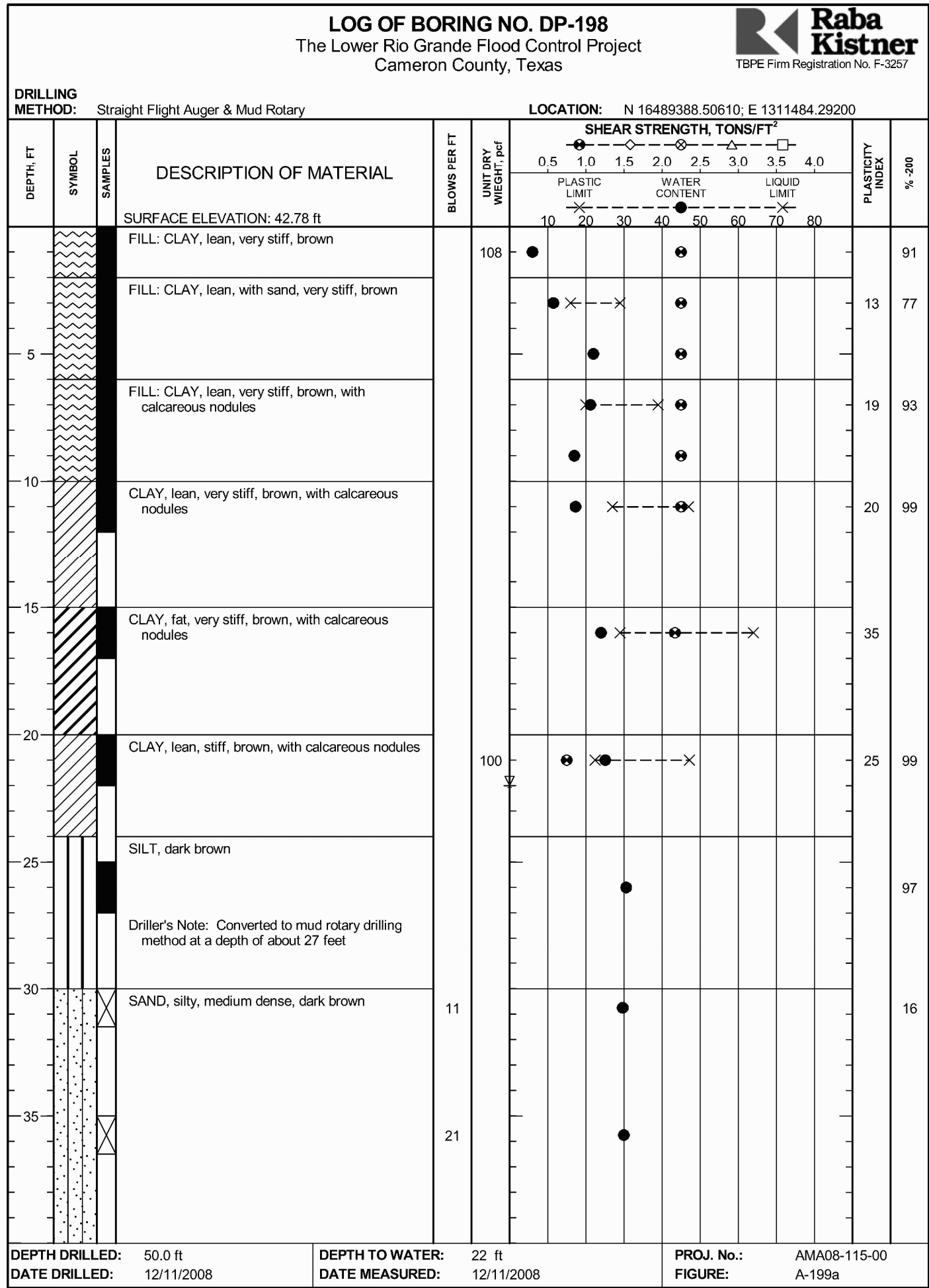
TETRA TECH
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INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
GEOTECHNICAL BORING LOG (23)

DESIGNED: EM FILE
DRAWN: EM RECOMMENDED: IGP
CHECKED: YHC, JLL, AWG APPROVED: MAO

28280-000-A0 SHEET 281 OF 299



PLANS PREPARED BY:

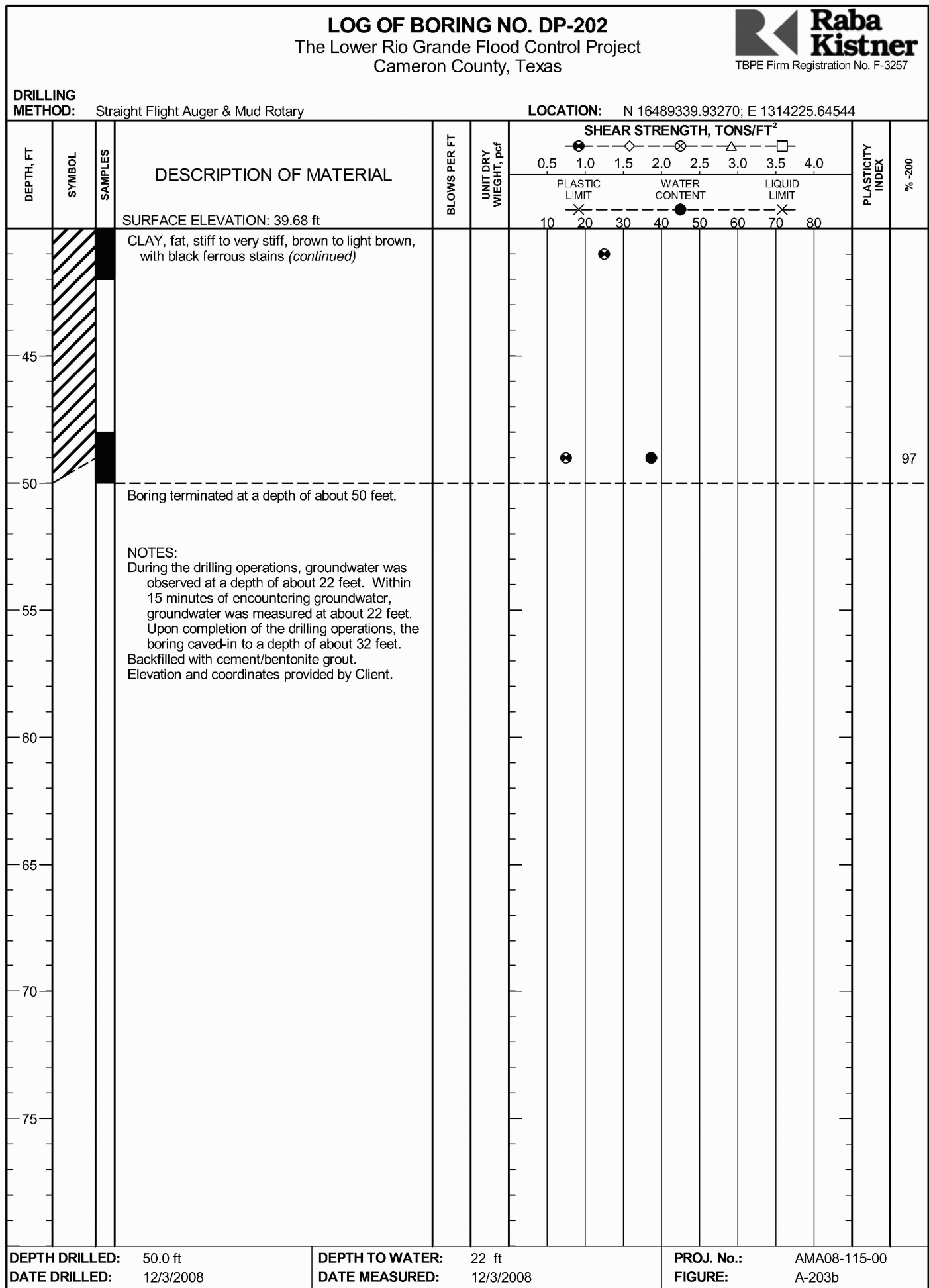
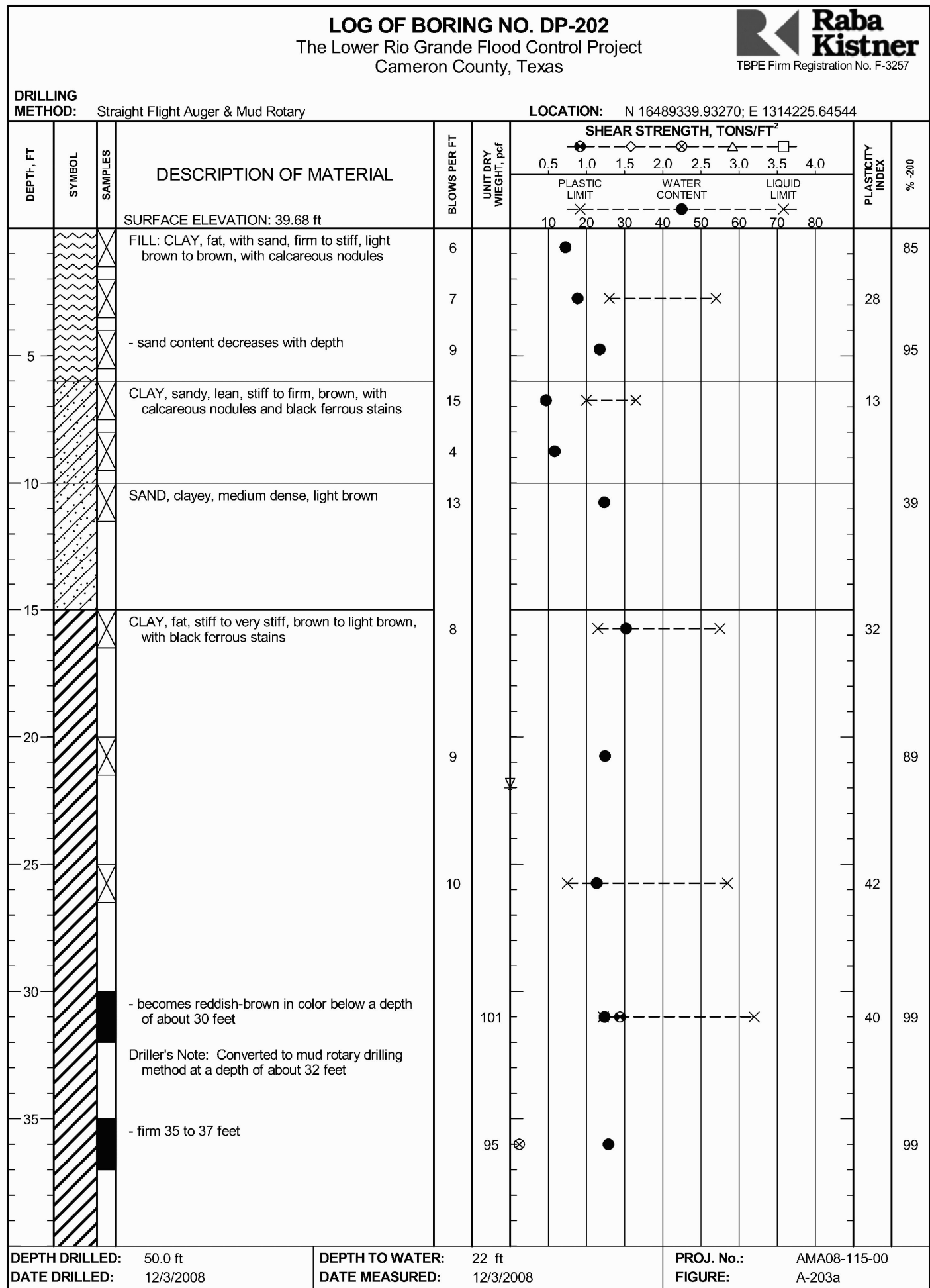
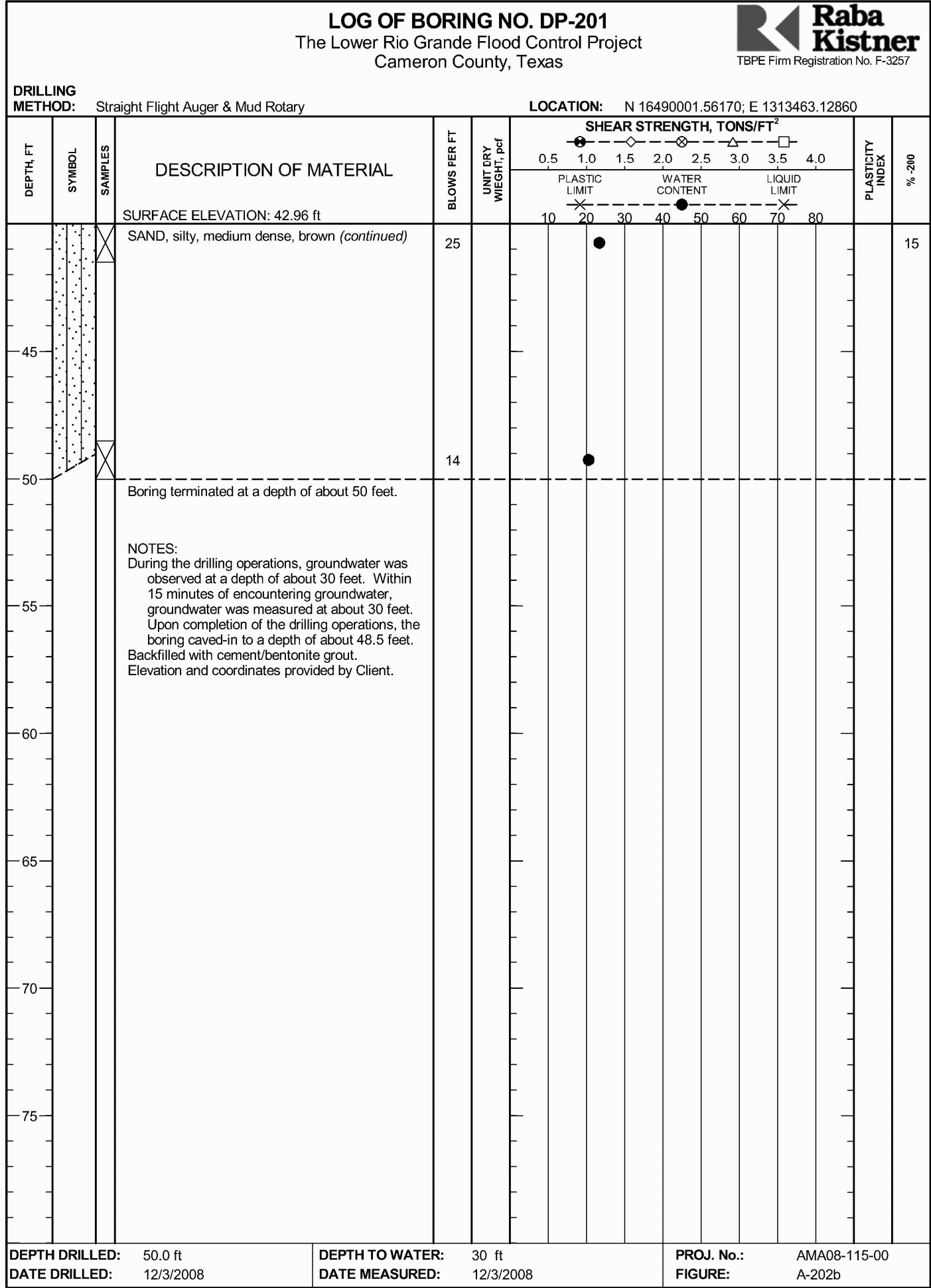
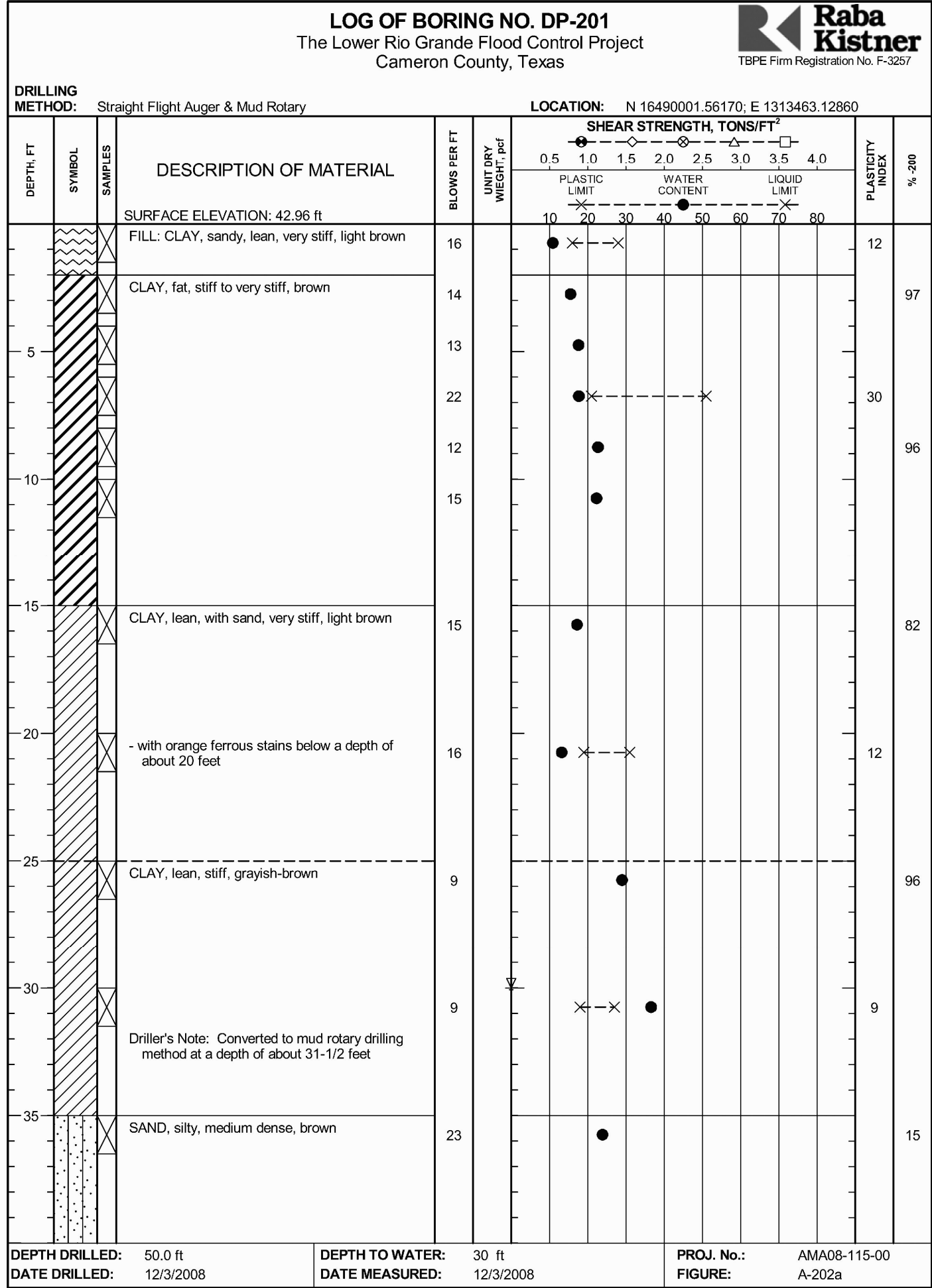
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PHONE: (949) 809-5000
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INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
GEOTECHNICAL BORING LOG (24)

DESIGNED: EM FILE
DRAWN: EM RECOMMENDED: IGP
CHECKED: YHC, JLL, AWG APPROVED: MAO

28281-000-A0 SHEET 282 OF 299



PLANS PREPARED BY:

TETRA TECH
17885 VON KARMAN AVE, SUITE 500
IRVINE, CA 92614
PHONE: (949) 809-5000
FAX: (949) 809-5010



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION
UPPER BROWNSVILLE LEVEE REHABILITATION
CAMERON COUNTY, TEXAS
GEOTECHNICAL BORING LOG (25)

DESIGNED: EM FILE
DRAWN: EM RECOMMENDED: IGP
CHECKED: YHC, JLL, AWG APPROVED: MAO

28282-000-A0 SHEET 283 OF 299