

DRAINAGE AREA MAP

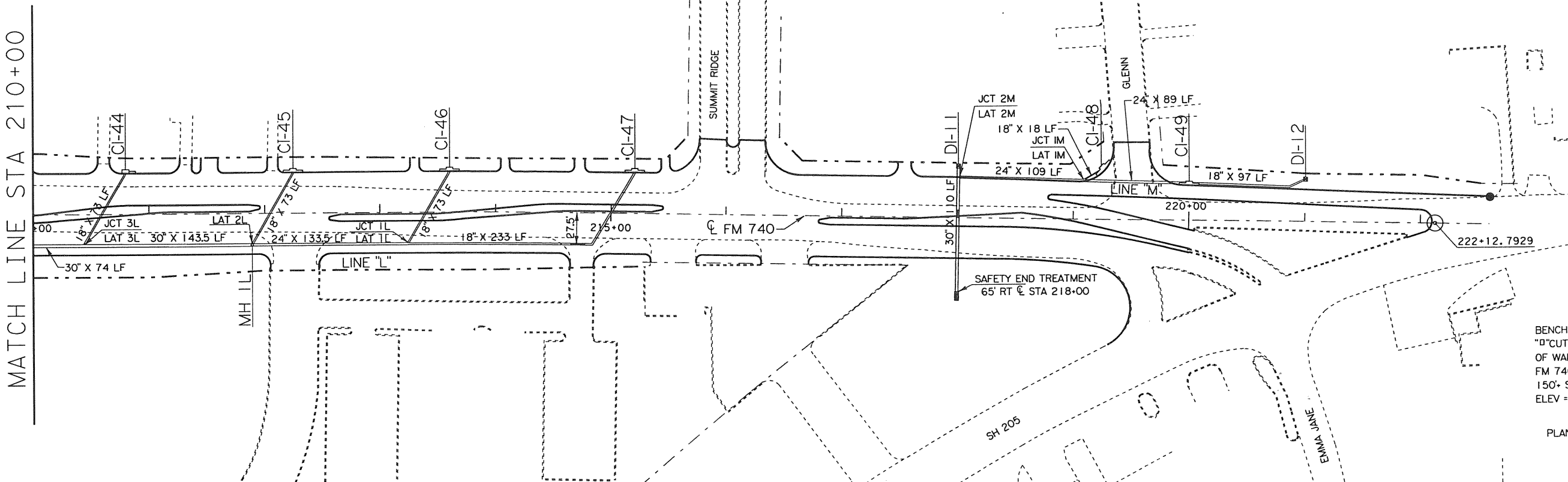
SCALE 1"=600'

SHEET 1 of 2



FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP99(413)MA 82	
STATE DIST. NO.	STATE PROJECT NO.	COUNTY
TEXAS	DAL	ROCKWALL
CONTRACT NO.	SECTION NO.	JOB NO.
1014	03	033
		HIGHWAY NO.
		FM 740

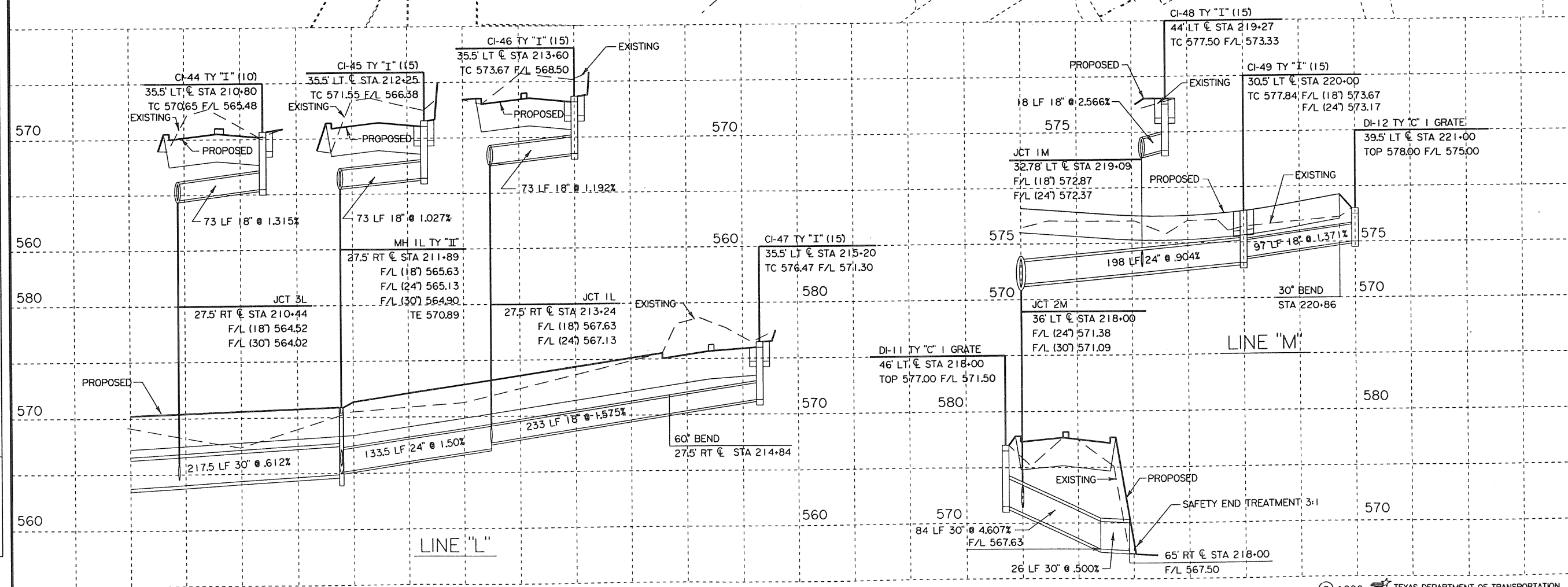
MATCH LINE STA 210+00



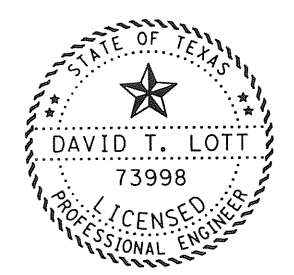
BENCH MARK
 "D" CUT TOP OF HDWL AT CENTER
 OF WALL, 2-18" RCP CULVERT UNDER
 FM 740, WEST END OF CULVERT
 150' SOUTH OF GLENN.
 ELEV = 576.12

PLAN SCALE: 1"=100'

1.620233441749	2	1.6233440 - 43.4749
FM740.DGN	DGN	DESIGN FILES
FM7	DGN	DRAIN.DGN



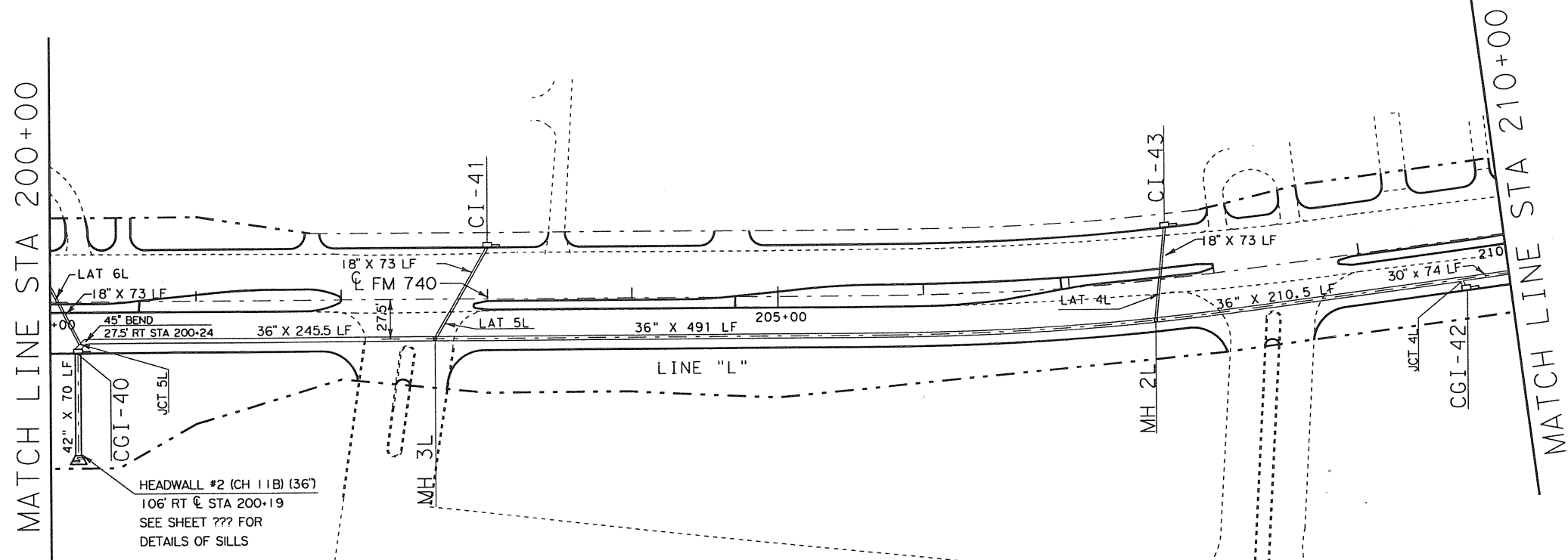
PROFILE SCALE:
 1"=100' HORIZONTAL
 1"=10' VERTICAL



8/16/1999
 David T. Lott, P.E.

DRAINAGE SHEET
 SHEET 15 OF 15

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99 (413) MM	103
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		FM 740



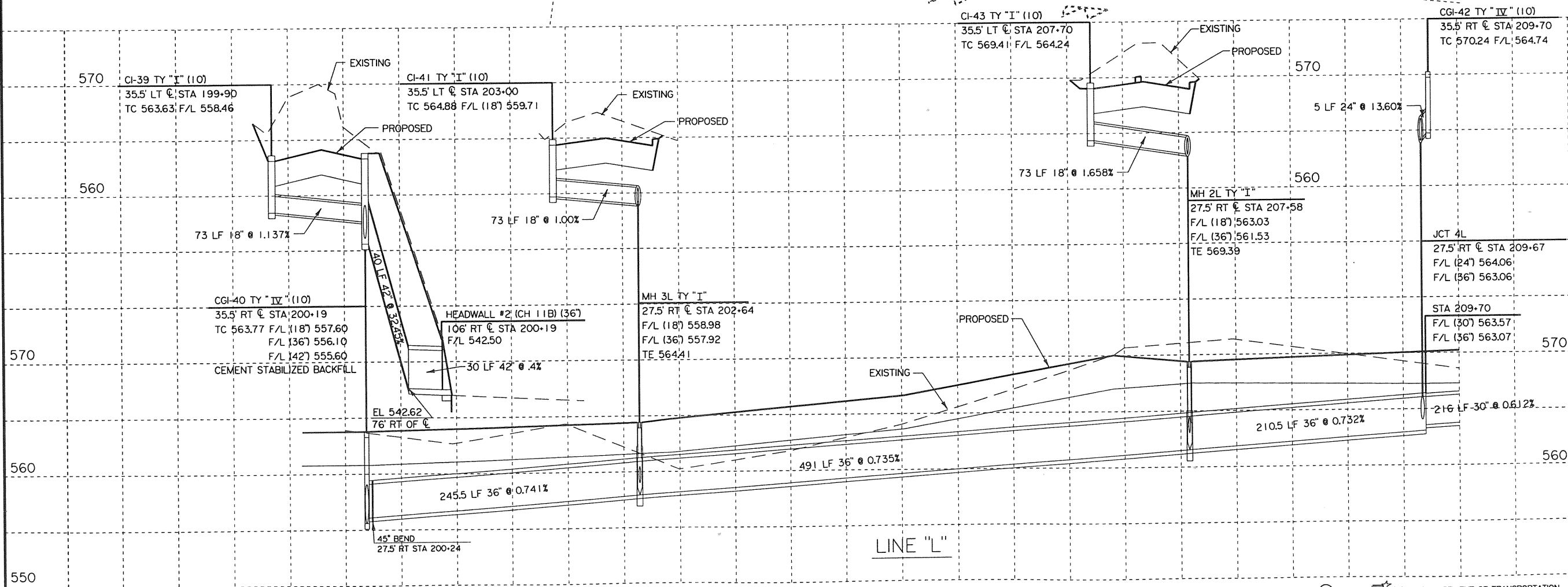
MATCH LINE STA 200+00

MATCH LINE STA 210+00

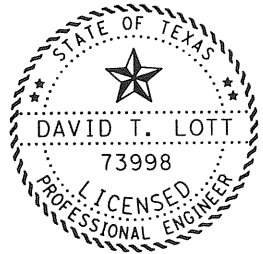
LINE "L"

PLAN SCALE: 1"=100'

6/20/22, 23, 34, 47, 49	2	1, 6, 23, 40 - 43, 47, 49
FM740.DGN	ODGN	DESIGN FILES
FM7		DRAINS.DGN



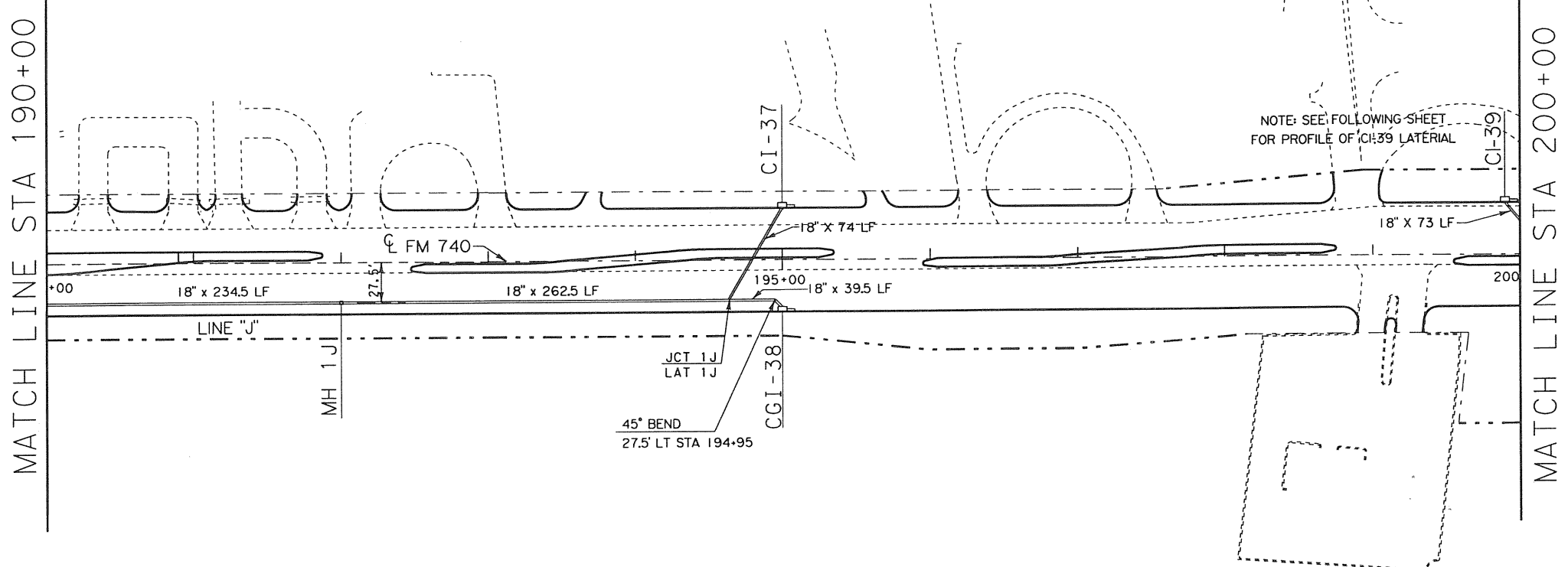
PROFILE SCALE:
1"=100' HORIZONTAL
1"=10' VERTICAL



8/16/1999
David Lott, P.E.

DRAINAGE SHEET
SHEET 14 OF 15

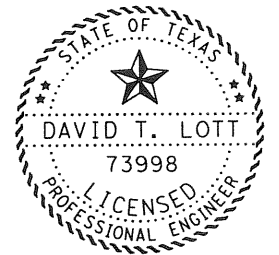
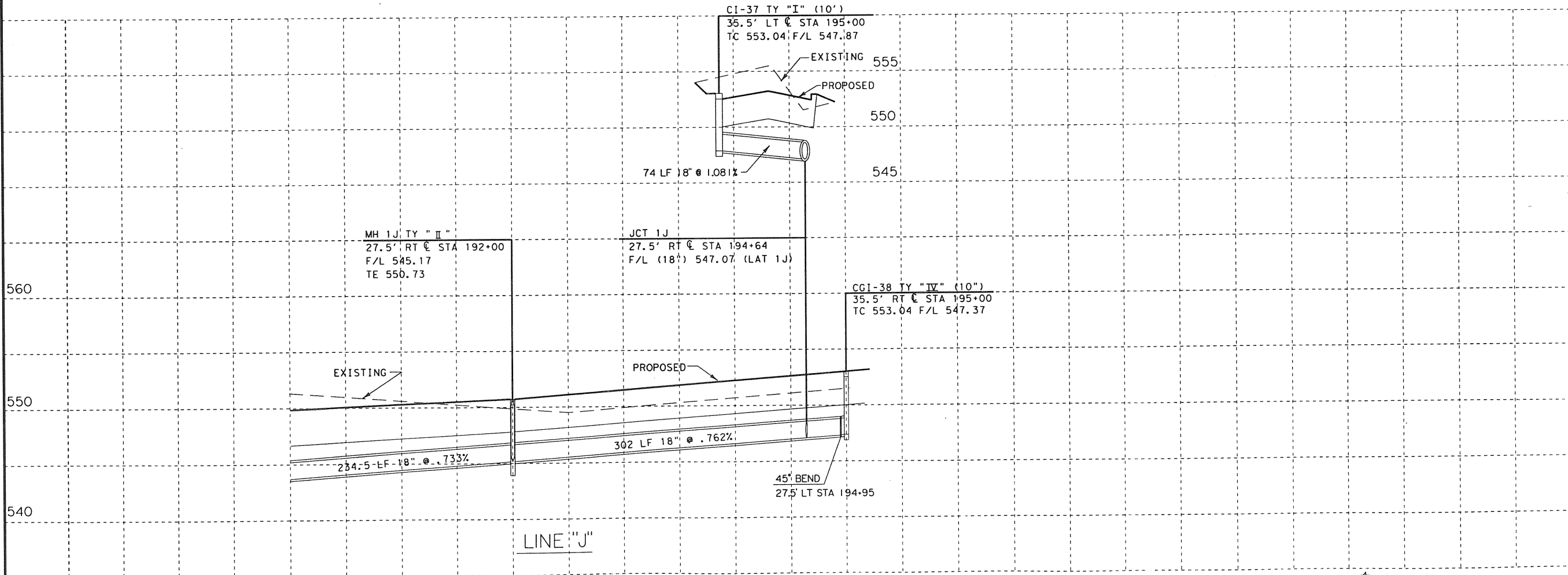
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99 (413) MM	14
STATE	DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		FM 740



PLAN SCALE: 1"=100'

FILE NAME	1.6.2022.23.4.47.49
FMT 740 - 4DGN	2
FMT - 0DGN	
DESIGN FILES	1.6.23.40 - 43.47.49
DRAIN7.DGN	

PROFILE SCALE:
1"=100' HORIZONTAL
1"=10' VERTICAL



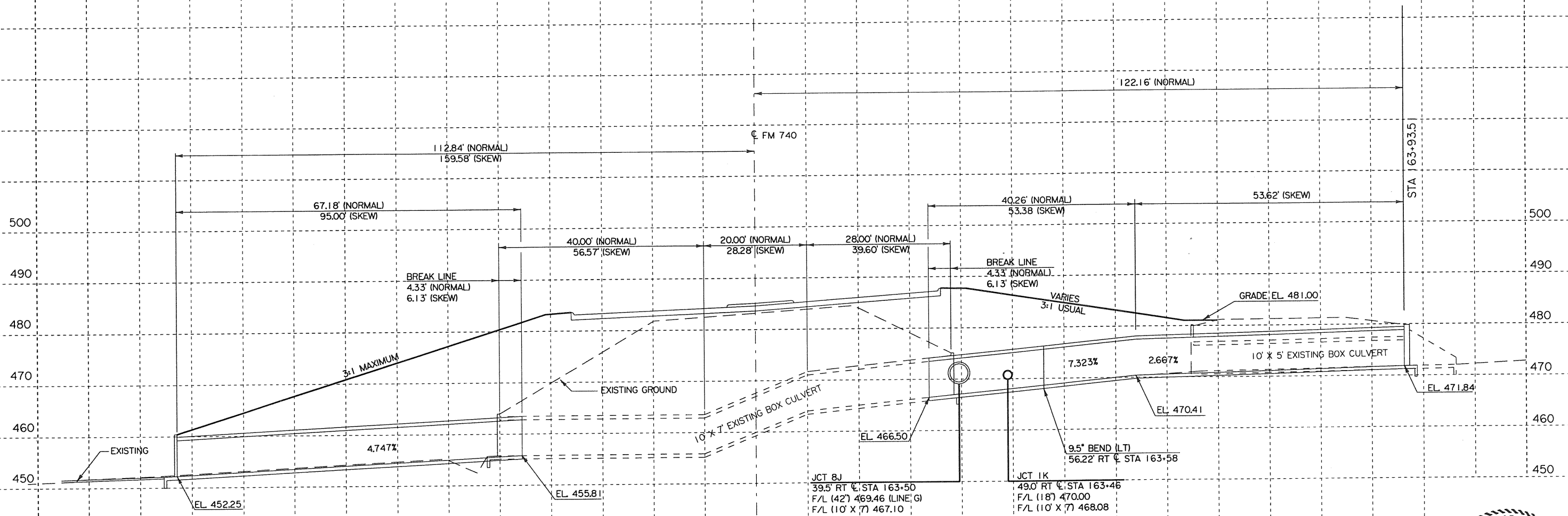
8/16/1999
David Lott, P.E.

DRAINAGE SHEET
SHEET 13 OF 15

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	101
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740

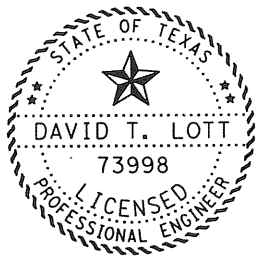
SUMMARY OF ESTIMATED QUANTITIES

ITEM 462 CONC BOX CULV (10 FT X 7 FT)	202 LF
ITEM 466 WINGWALL (PW - N) (H = 7FT)	1 EA
ITEM 466 WINGWALL (PW - 45°) (MOD) (H = 7FT)	1 EA



(LEFT CL) 1 - 10' X 7' X 95.00' CONCRETE BOX CULVERT EXTENSION
PC-5 (PRECAST) & PW-45°

(RIGHT CL) 1 - 10' X 7' X 107.00' CONCRETE BOX CULVERT EXTENSION
PC-5 (PRECAST) & PW - N



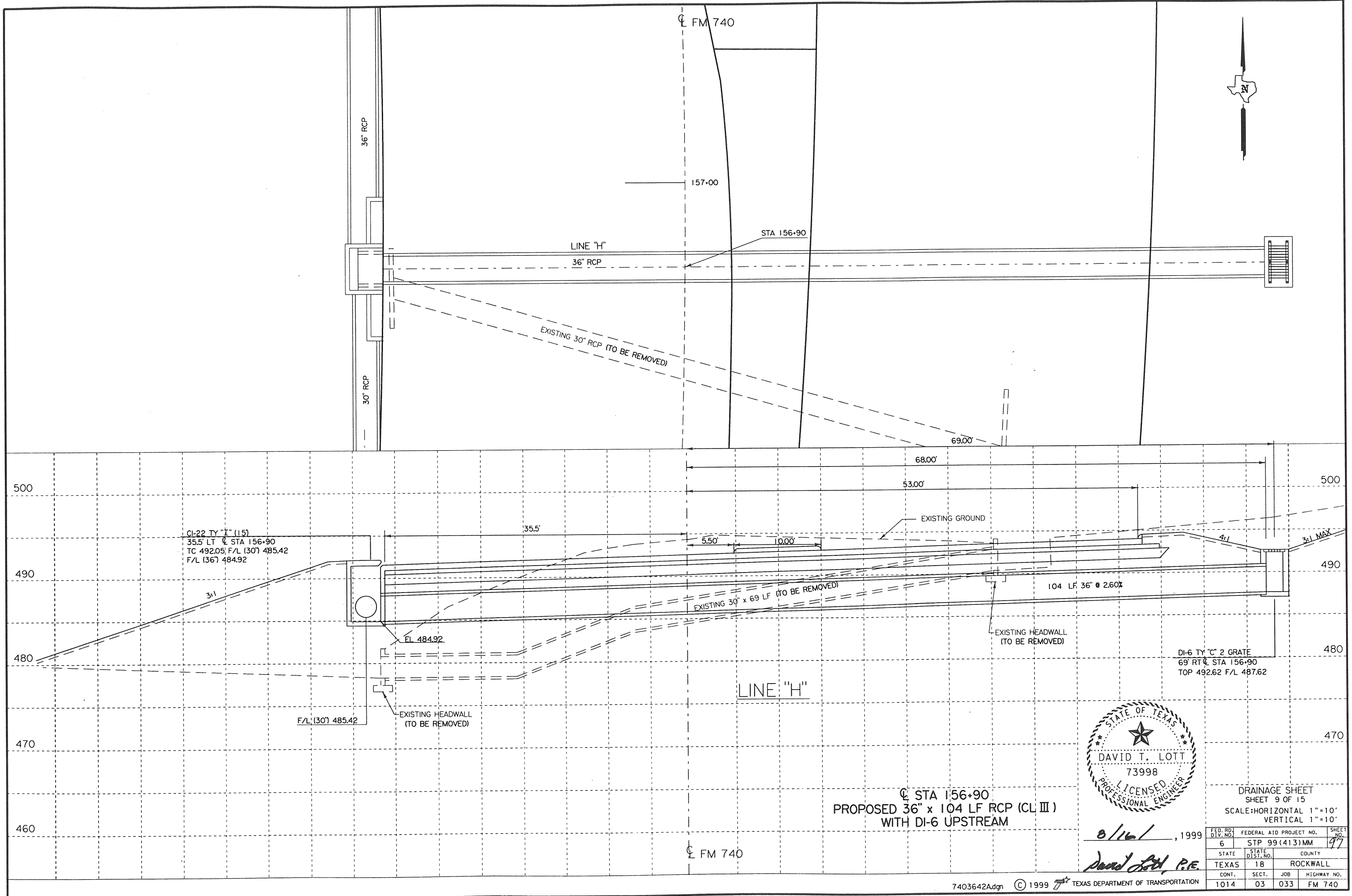
8/16/1999

David Lott, P.E.

DRAINAGE SHEET
SHEET 10 OF 15
CULVERT LAYOUT
STA 163+05
SCALE 1" = 20'

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	48
STATE	DIS. NO.	COUNTY
TEXAS	18	ROCKWALL
CONTROL	SECTION	JOB
1014	03	033
		FM 740

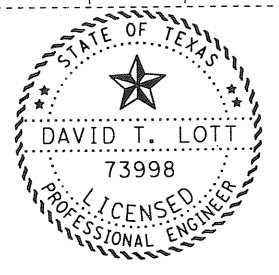
74016305.dgn



CL-22 TY "I" (15)
 35.5' LT @ STA 156+90
 TC 492.05; F/L (30') 485.42
 F/L (36') 484.92

DI-6 TY "C" 2 GRATE
 69' RT @ STA 156+90
 TOP 492.62 F/L 487.62

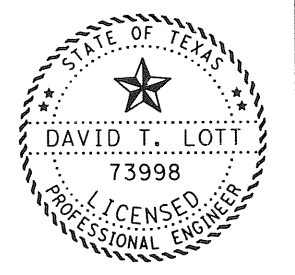
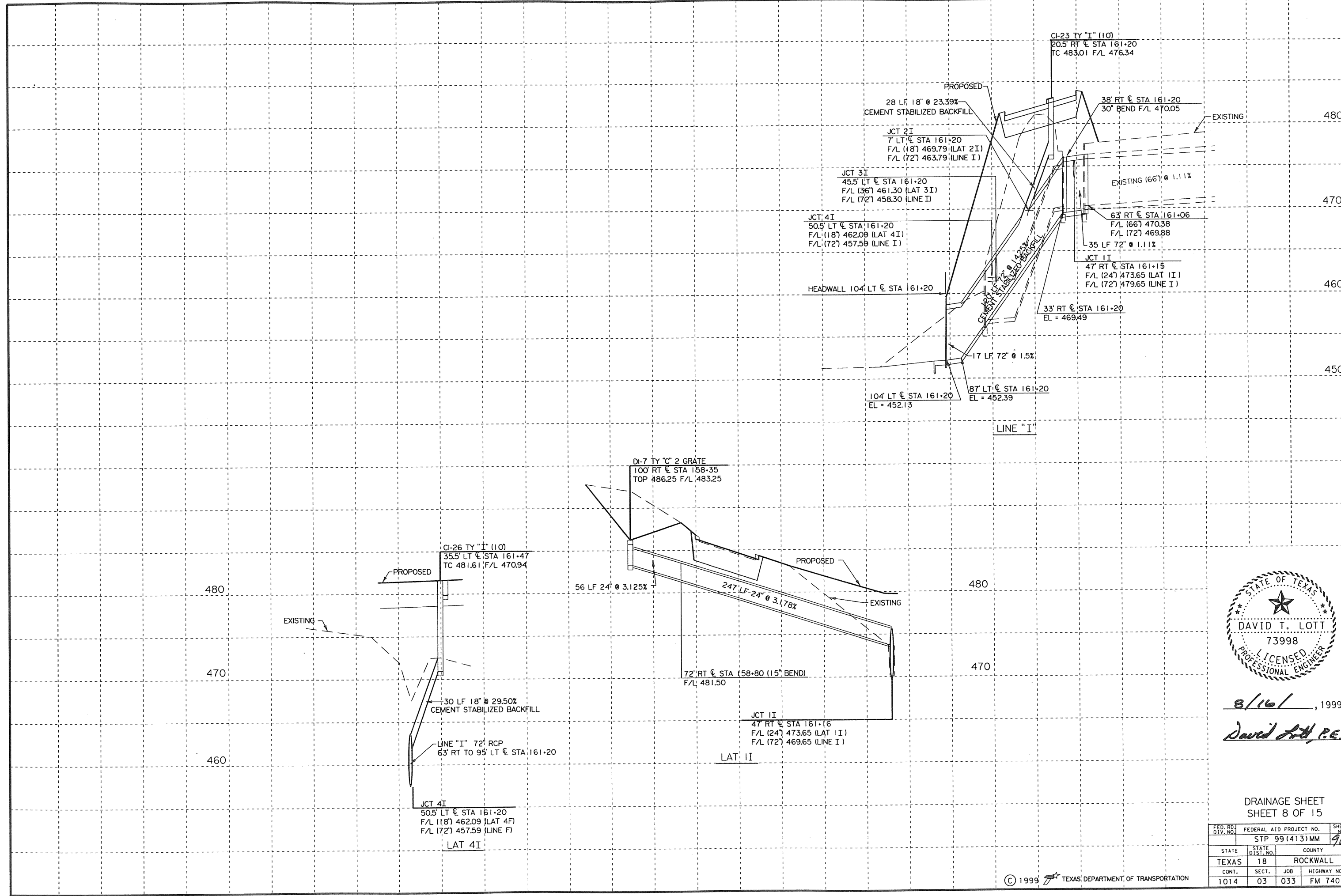
CL STA 156+90
 PROPOSED 36" x 104 LF RCP (CL III)
 WITH DI-6 UPSTREAM



8/16/1999
 David Lott, P.E.

DRAINAGE SHEET
 SHEET 9 OF 15
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=10'

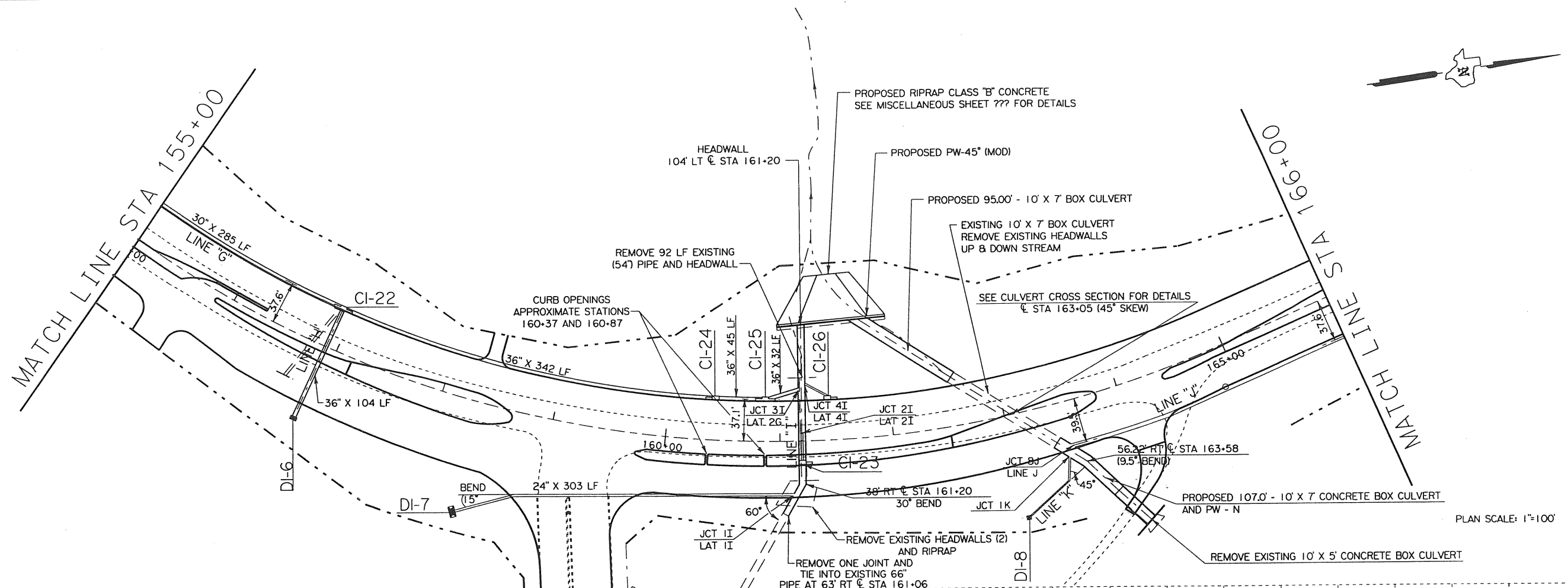
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	97
STATE	STATE DIS. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740



8/16/1999
 David T. Lott, P.E.

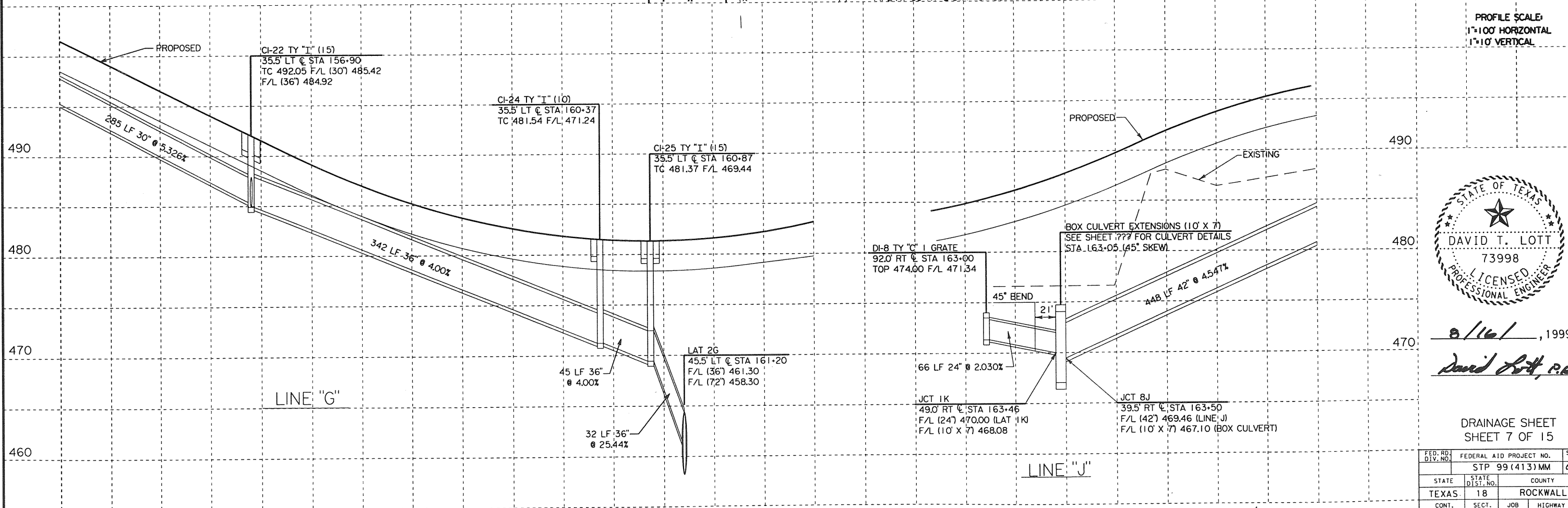
DRAINAGE SHEET
 SHEET 8 OF 15

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
	STP 99(413)MM		96
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	ROCKWALL	
CONT.	SECT.	JOB	HIGHWAY NO.
1014	03	033	FM 740

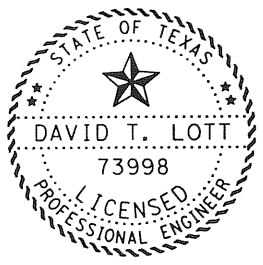


PLAN SCALE: 1"=100'

1.6,20,23,34,40,47,49	2	1.6,23,40 - 43,47,49
FM740? B.3.DGN	ODGN	DESIGN FILES
FM7		DRAIN4.DGN



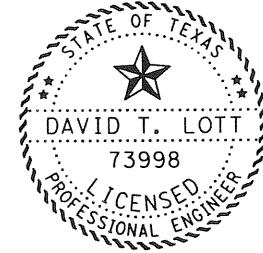
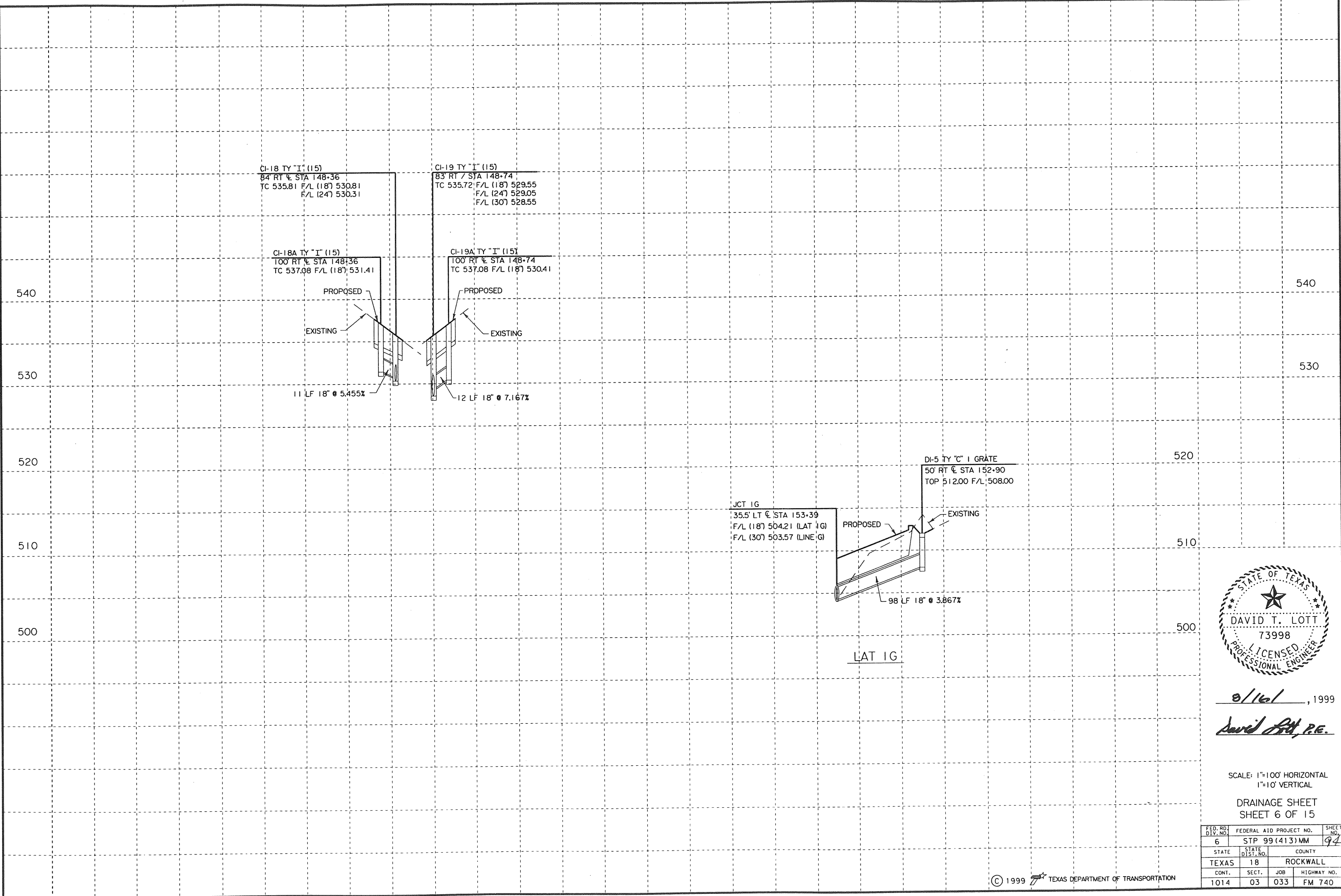
PROFILE SCALE:
1"=100' HORIZONTAL
1"=10' VERTICAL



8/16/1999
David Lott, P.E.

DRAINAGE SHEET
SHEET 7 OF 15

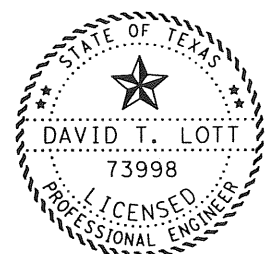
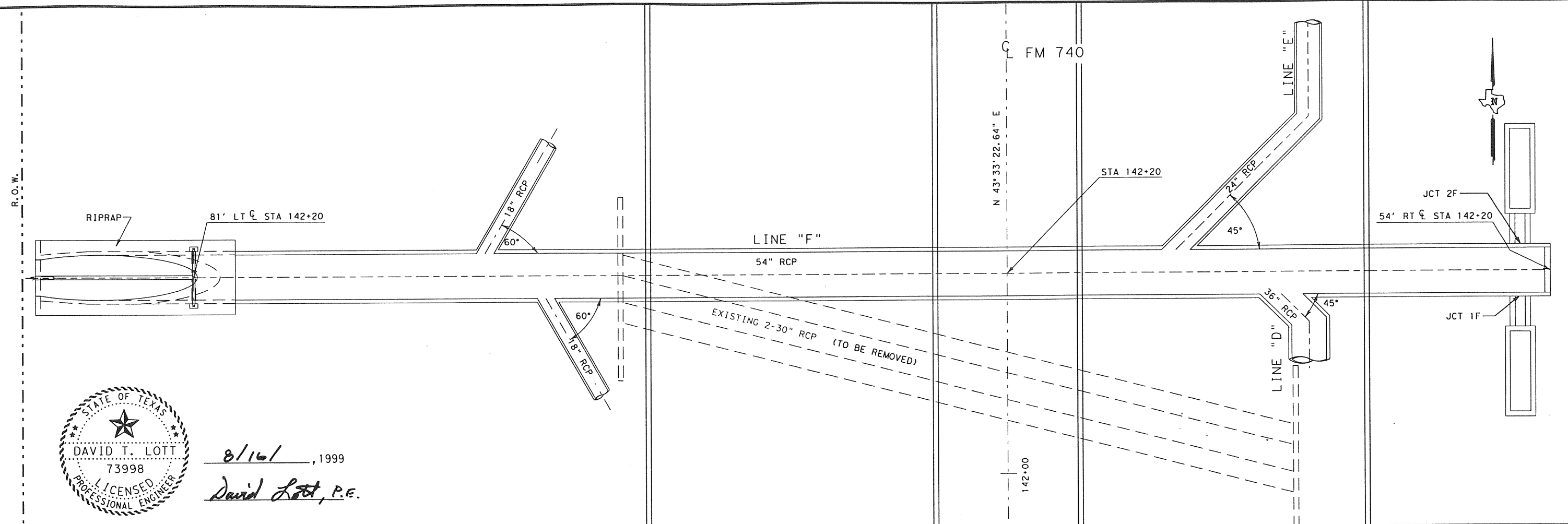
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	STP 99 (413) MM	95
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		FM 740



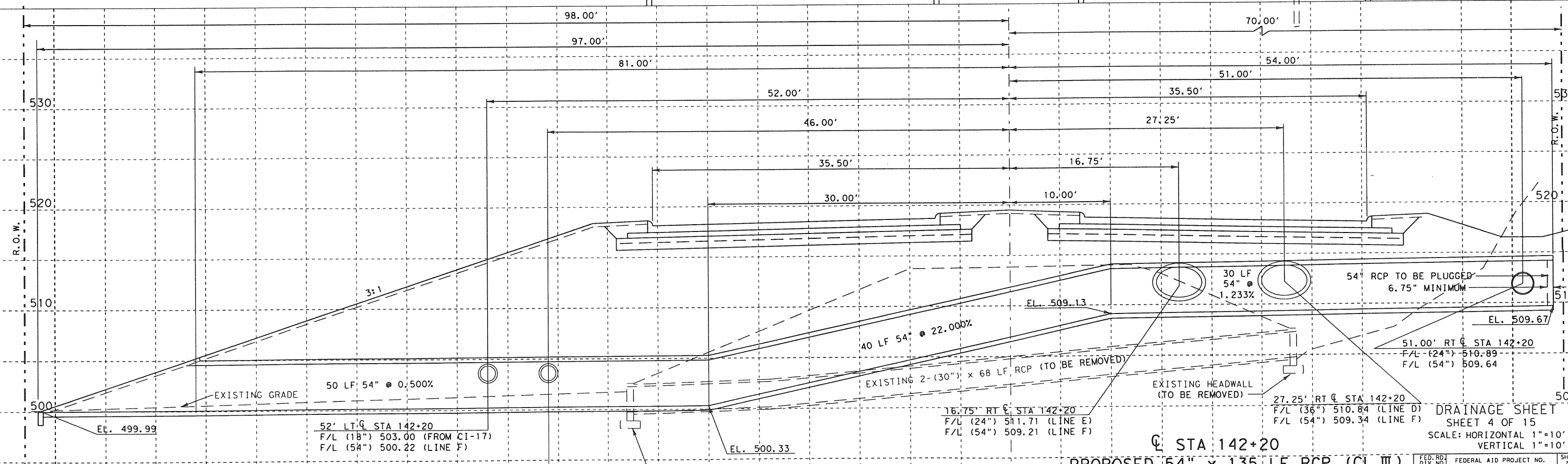
0/16/1999
 David T. Lott, P.E.

SCALE: 1"=100' HORIZONTAL
 1"=10' VERTICAL
 DRAINAGE SHEET
 SHEET 6 OF 15

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	94
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB HIGHWAY NO.
1014	03	033 FM 740



8/16/1999
 David Lott, P.E.



NOTE:
 SEE STANDARD DRAWING CD-SPR (3:1) FOR DETAILS.
 THE SAFETY END TREATMENT WILL HAVE PIPE RUNNERS

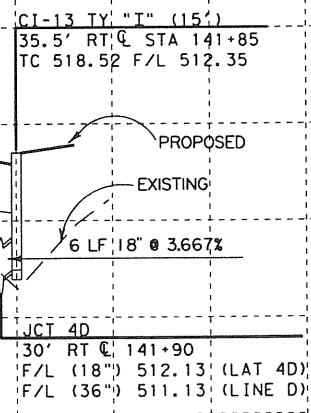
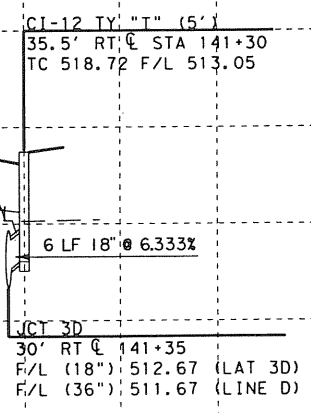
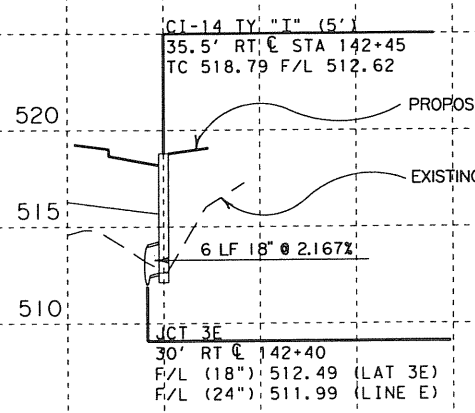
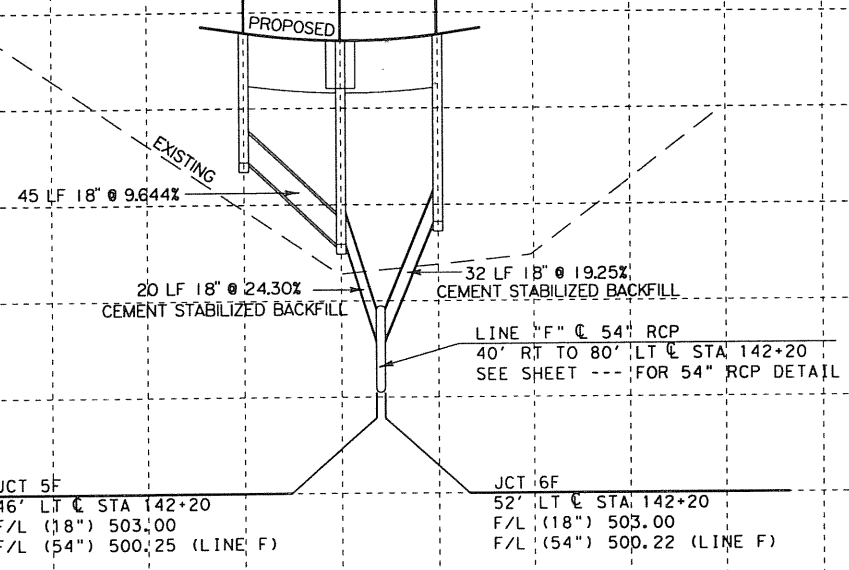
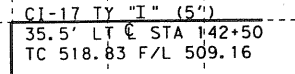
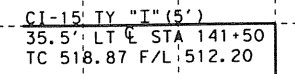
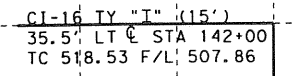
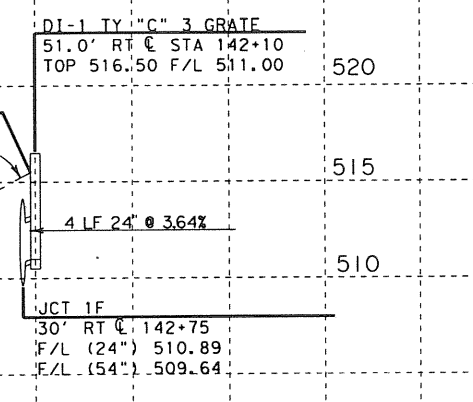
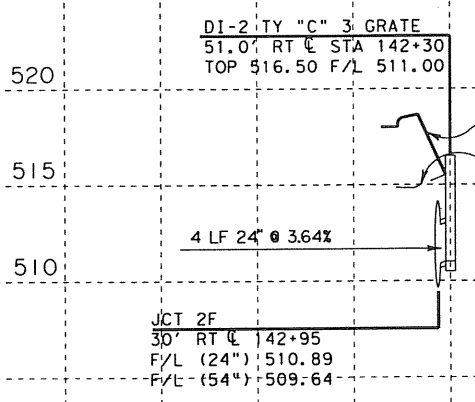
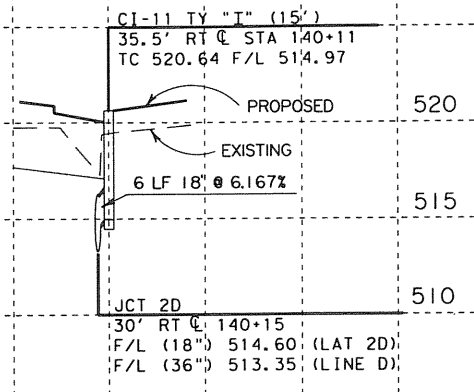
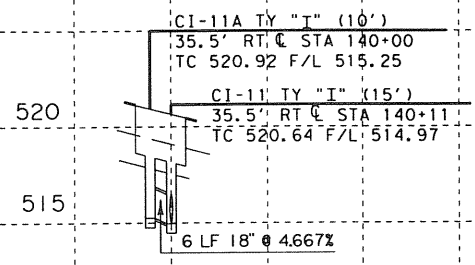
46' LT. CL. STA 142+20
 F/L (18") 503.00 (FROM CI-16)
 F/L (54") 500.25 (LINE F)

EXISTING HEADWALL
 (TO BE REMOVED)

PROPOSED 54" x 135 LF RCP (CL III)
 WITH CD-SPR (3:1) DOWNSTREAM

DRAINAGE SHEET
 SHEET 4 OF 15
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=10'

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	9
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740



LAT 2F

LAT 1F

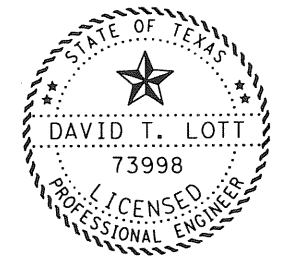
LAT 5F

LAT 6F

LAT 3E

LAT 3D

LAT 4D



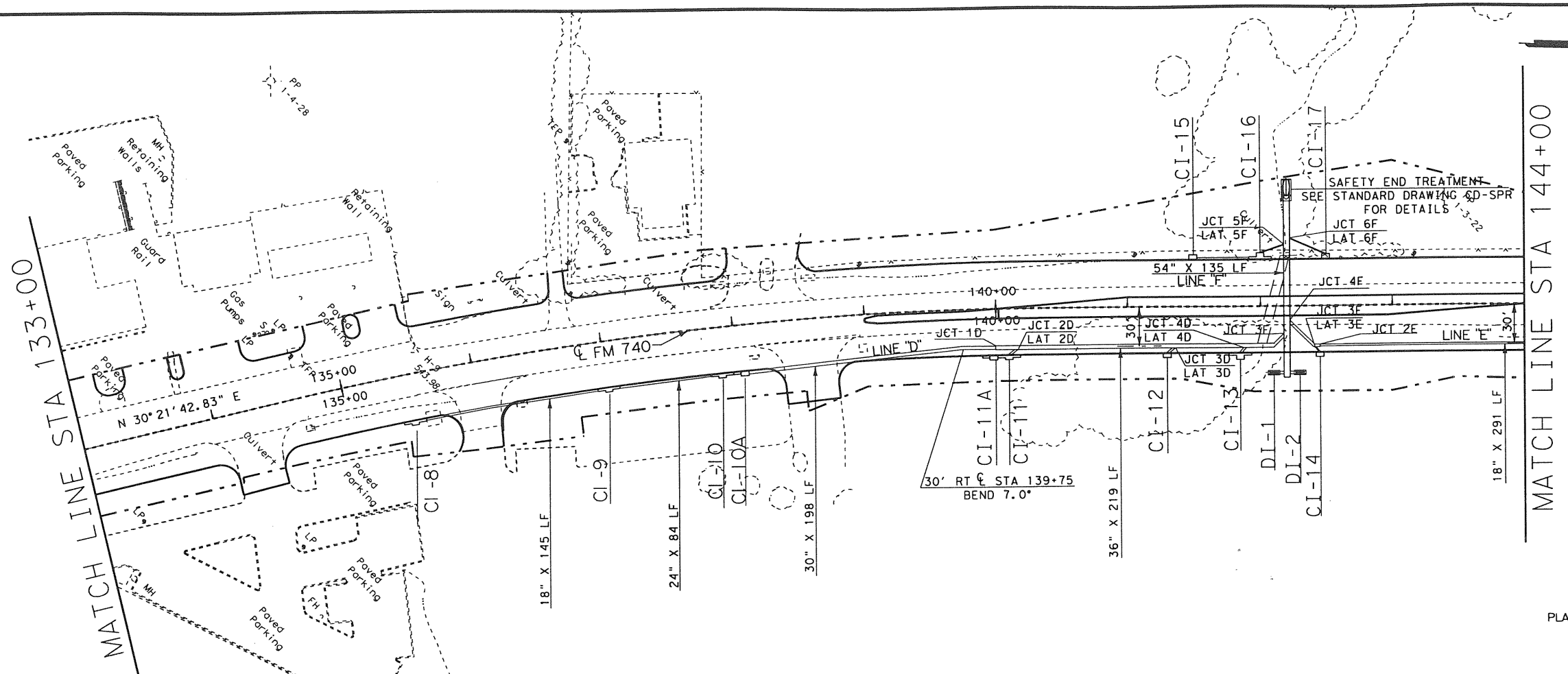
8/16/1999
David Lott, P.E.

SCALE: 1"=100' HORIZONTAL
1"=10' VERTICAL
DRAINAGE SHEET
SHEET 3 OF 15

DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99 (413) MM	97
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740



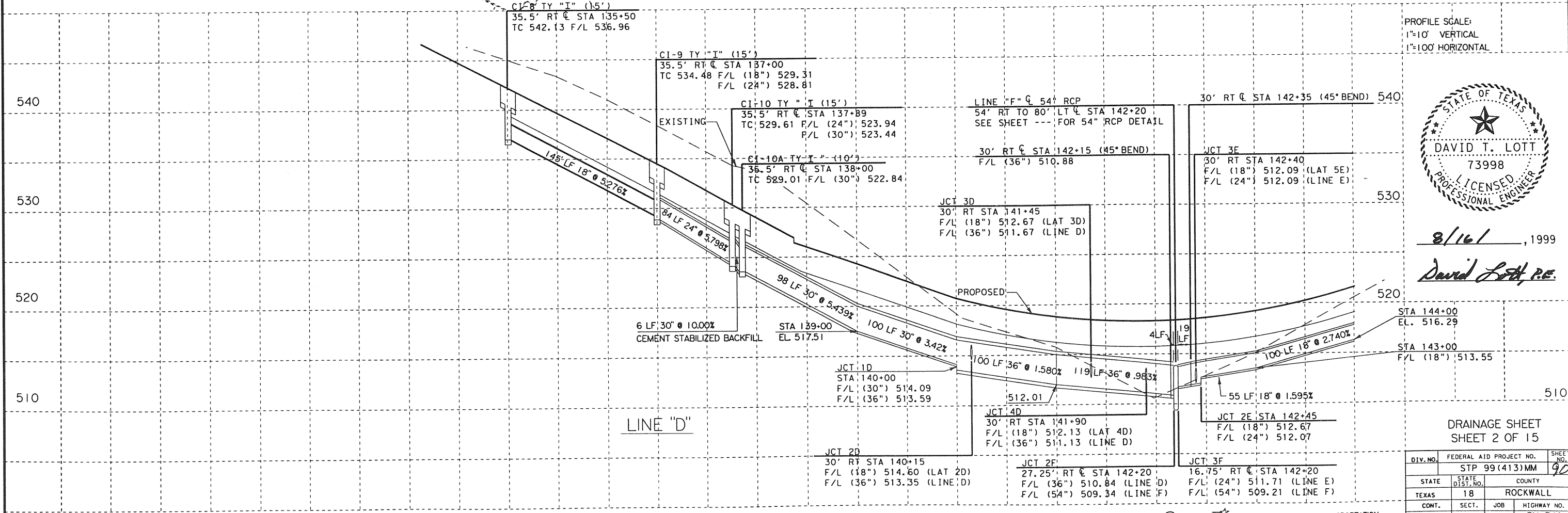
1.6,20,22,23,34,40,41,49
1-30, 39-49
1.6,23,40 - 43,47,49
DESIGN FILES
DRAIN2.DGN



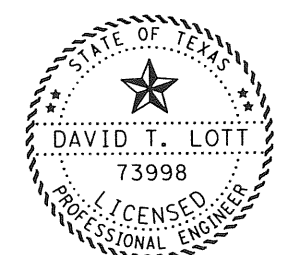
MATCH LINE STA 133+00

MATCH LINE STA 144+00

PLAN SCALE: 1"=100'



PROFILE SCALE:
1"=10' VERTICAL
1"=100' HORIZONTAL

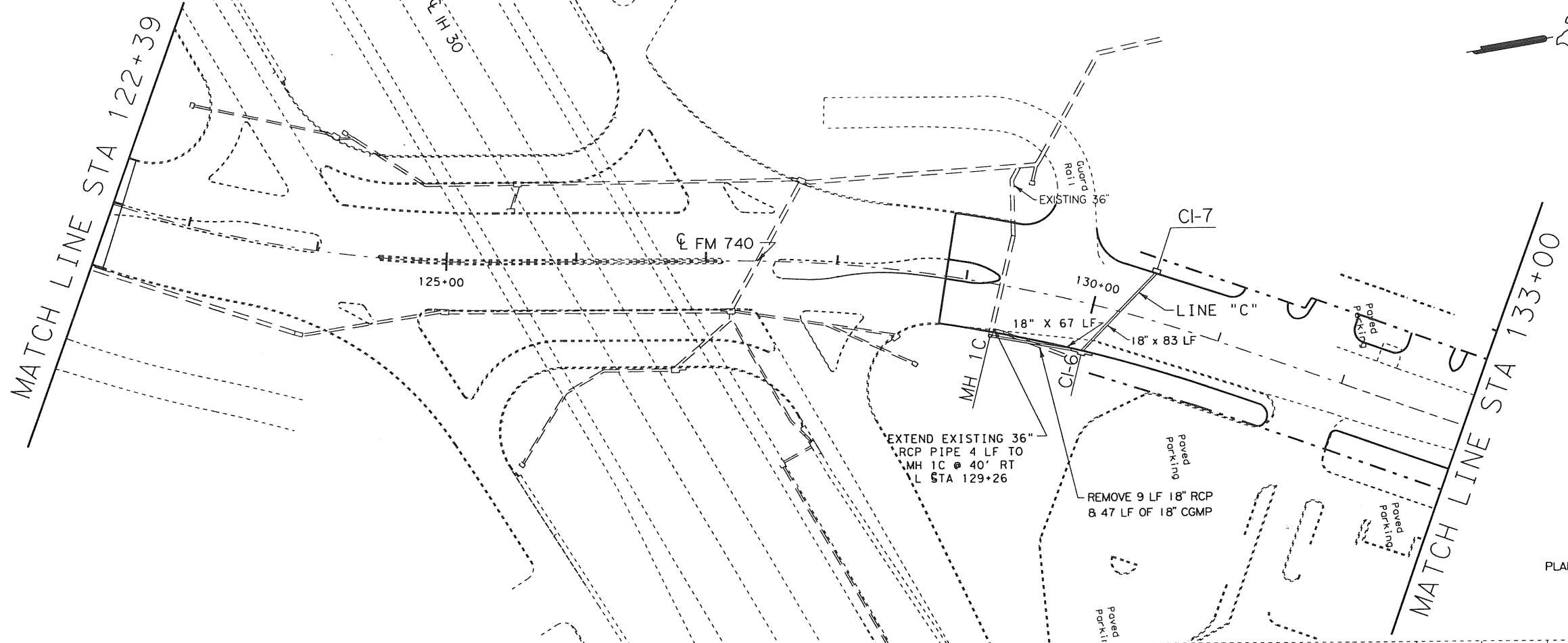


8/16/1999
David Lott, P.E.

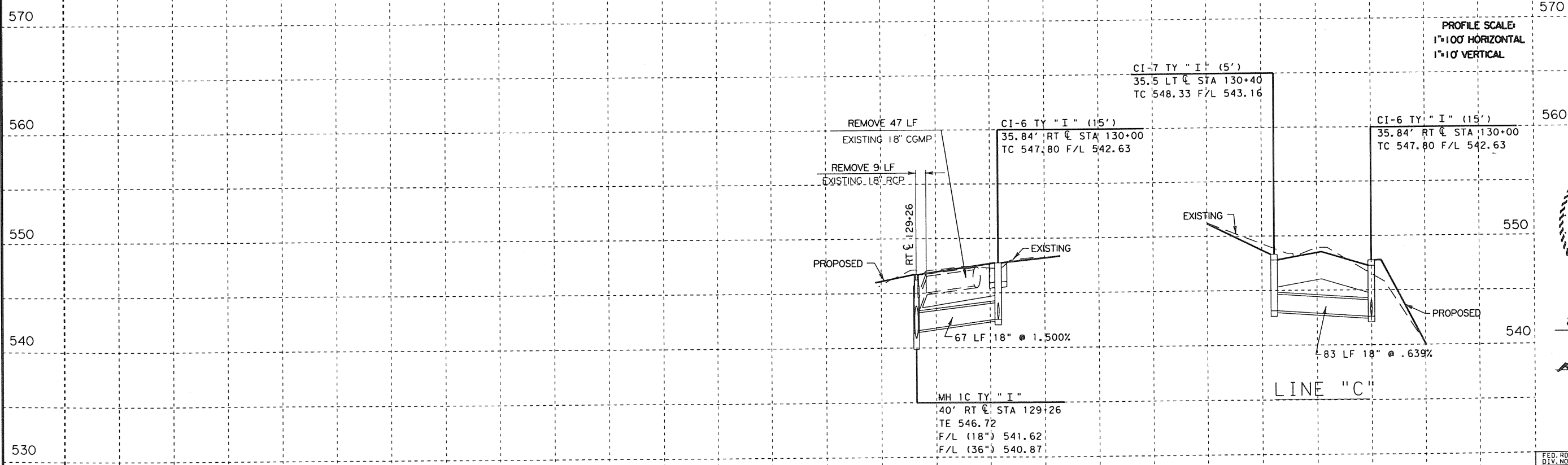
STA 144+00	EL. 516.29
STA 143+00	F/L (18") 513.55
510	

DRAINAGE SHEET
SHEET 2 OF 15

DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	STP 99(413)MM	90
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740

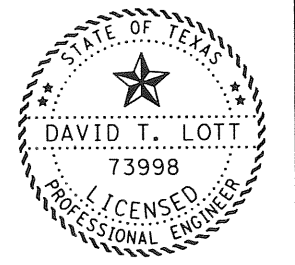


PLAN SCALE: 1"=100'



PROFILE SCALE:
1"=100' HORIZONTAL
1"=10' VERTICAL

1.6.19-2023.3447.49.51	2.40
FM7401 - 2.DGN	UDGN
FM74C	2063
91.LDC	40
91.DRA.DGN	1.6.23.40 - 43.47.49
DRAIN.DGN	



8/16/1999
David Lott, P.E.

DRAINAGE SHEET
SHEET 1 OF 15

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	89
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740

 * THYSYS *
 * TEXAS HYDRAULICS SYSTEM *

§ PROJECT: FM 740
 § CSJ NO.: 1014-03-033
 § STATION: 163+05
 §
 HYDRO DA 355ACRES
 METHOD USGS
 USGS REGION = 2
 ENDATA

10YR

SECTION SPECIFICATIONS FOR SECTION "4" AT STATION 560.00
 UPSTREAM
 DRAINAGE AREA RATIO 1.000

COORDINATE INFORMATION

X	Y
.00	487.67
10.00	487.27
21.00	485.57
30.00	482.37
42.00	477.17
51.00	475.37
56.00	473.77
66.00	473.77
69.00	473.27
70.00	471.77
75.00	471.17
80.00	473.77
86.00	475.27
97.00	475.27
114.00	477.97
139.00	483.47
181.00	483.87
236.00	484.37

HYDRO
 USGS PROCEDURE
 REGION = 2
 FREQUENCY = 10 YR.
 DRAINAGE AREA = 355.00 ACRES
 SLOPE = 80.5 FEET PER MILE

ANALYZE SINGLE OPENING BROKEN BACK CULVERT

CULVERT ID = 710 JOB NUMBER = FM 740
 INLET STATION = 0 ELEVATION = 471.84
 OUTLET STATION = 314 ELEVATION = 452.25

PROFILE	SHAPE	INLET TYPE	KE	MATERIAL	'N'
BROKN BK	BOX	NORMAL	.50	CONCRETE	.012

BROKEN BACK CULVERT CONFIGURATION

UNIT	SLOPE	LENGTH	UPSTREAM STA.	ELEV.	DOWNSTREAM STA.	ELEV.
1	.05465	140	0	471.84	140	464.17
2	.28324	28	140	464.17	168	456.16
3	.02688	145	168	456.16	314	452.25

CRITICAL SLOPE = .00000
 FLOW = 679.9 CFS FREQUENCY = 10 YEAR
 TAILWATER = 459.26

SECTION SPECIFICATIONS FOR SECTION "C" AT STATION 100.00
 DOWNSTREAM
 DRAINAGE AREA RATIO 1.000

'N' VALUE INFORMATION

FROM X	TO X	'N' BELOW	ELEVATION	'N' ABOVE
.00	236.00	.040	487.67	.040

COORDINATE INFORMATION

X	Y
.00	469.47
50.00	468.07
88.00	468.07
100.00	467.67
108.00	463.27
120.00	455.37
122.00	451.87
134.00	451.37
142.00	466.87
150.00	466.37
200.00	468.17

'N' VALUE INFORMATION

FROM X	TO X	'N' BELOW	ELEVATION	'N' ABOVE
.00	200.00	.060	469.47	.060

RESULTS OF TWO SECTION METHOD CALCULATIONS

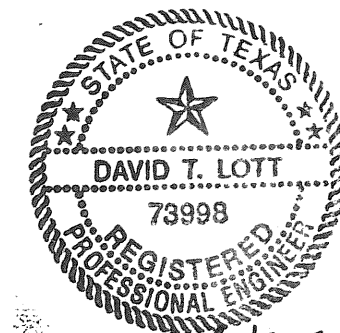
SECTION STATION	DOWNSTREAM "C"	UPSTREAM "4"	AT SITE
	100.00	560.00	175.00

DESIGN Q (CFS)	SLOPE (FT/FT)	VELOCITY (FT/SEC) DOWNSTREAM	UPSTREAM	WATER SURFACE ELEVATION AT SITE
680.	.04184	10.26	10.89	459.26
1311.	.03913	11.83	11.45	461.30

HUNDRED YEAR FLOOD ANALYSIS

CULVERT 710 1 - 0 X 0 X 314.08
 BASIC FLOOD APPLIED (100 YEAR FREQ) = 1311.4 CFS
 HUNDRED YEAR VELOCITY AT STRUCTURE OUTLET = 33.48
 HUNDRED YEAR TAILWATER ELEVATION = 461.30
 ELEVATION OF WATER SURFACE OVER ROAD = 483.02
 LOW ELEVATION OF ROAD PROFILE = 481.87
 GREATEST DEPTH OF FLOW OVER ROAD = 1.15
 PERCENTAGE OF BASIC FLOOD OVER ROAD = 36.35%

CULBRG	ANALYSIS	CULVERT	SINGLE
CLVRT 710	BROKEN BK	CONCRETE	NORMAL KE=0.50
CLVRT 710	OUTLT STA 314.08	INLET STA 0.00	EL 471.84
CLVRT 710	BREAK STA 140.35	BREAK STA 168.63	EL 456.16
CLVRT 710	DIMENSIONS	HIGH= 7 WIDE= 10	BARRELS= 1
RD PROFILEX	15500 Y 502.04 X	15600 Y 497.04 X	15700 Y 492.04
RD PROFILEX	15800 Y 487.48 X	15900 Y 484.25 X	16000 Y 482.38
RD PROFILEX	16100 Y 481.87 X	16200 Y 482.72 X	16300 Y 484.94
RD PROFILEX	16400 Y 488.52 X	16500 Y 492.60 X	16600 Y 495.24



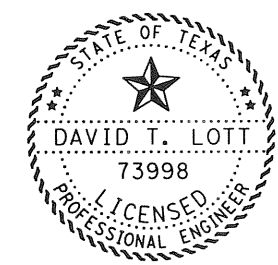
David T. Lott, P.E.
 8/16/99

HYDRAULIC CALCULATIONS
 SHEET 5 OF 5

FED. AID DIST. NO.	FEDERAL AID PROJECT NO.	SHEET NO.	
6	STP 99(413)99	88	
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	ROCKWALL	
CONTR.	SECT.	JOB	HIGHWAY NO.
1014	03	033	FM 740

STORM SEWER CALCULATIONS SHEET 2 OF 2

FROM	TO	DA NO.	TOTAL DA (AC)	TOTAL CA	LENGTH (FT)	TIME OF CONCENTRATION			I (IN/HR)	Q (CFS)	DESIGN					
						ALONG SEWER LINE	INLET TIME	USED IN DESIGN			DIA. PIPE	SLOPE (%)	CAP. (CFS)	VEL. (FT/S)		
LINE	"J"															
CGI-38	JCT-1J	58	0.51	0.44	39.5		2.98	10	6.93	3.05	18	0.762	9.5	4.80		
CI-37	JCT-1J	57	0.51	0.44	74		2.98	10	6.93	3.05	18	1.081	11.5	5.50		
JCT-1J	MH-1J	57,58	1.02	0.88	262.5	2.98+74/5.5X60=3.20		10	6.93	6.1	18	0.762	9.5	6.00		
MH-1J	JCT 1	57,58	1.02	0.88	234.5	3.20+262.5/6X60=3.93		10	6.93	6.1	18	0.733	9.5	6.00		
JCT 1	JCT-2J	56-58	1.69	1.46	42	3.93+234.5/9X60=4.58		10	6.93	10.12	24	1.000	25	7.50		
CI-35	JCT-2J	55	0.67	0.58	74			10	6.93	4.02	18	1.959	15.5	7.50		
JCT-2J	MH-2J	55-58	2.36	2.04	220.5	4.58+42/7.5X60=4.67		10	6.93	14.14	24	1.000	25	8.00		
MH-2J	JCT 2	55-58	2.36	2.04	254.5	4.67+220.5/8X60=5.13		10	6.93	14.14	24	1.014	25	8.00		
JCT 2	JCT-3J	53,55-58	2.97	2.57	42	5.13+254.5/8X60=5.66		10	6.93	17.81	24	1.000	25	9.70		
CI-33	JCT-3J	54	0.61	0.53	74			10	6.93	3.67	18	1.297	12	6.00		
JCT-3J	MH-3J	53-58	3.58	3.1	200.5	5.66+42/9.7X60=5.73		10	6.93	21.48	24	1.000	25	8.30		
MH-3J	JCT 3	53-58	3.58	3.1	294.5	5.73+200.5/8.3X60=6.13		10	6.93	21.48	24	1.059	26	9.00		
JCT 3	MH-4J	52-58	4.22	3.65	253.5	6.13+294.5/9X60=6.68		10	6.93	25.29	24	4.129	50	16.50		
CI-31	MH-4J	51	1.09	0.85	74			10	6.93	5.89	18	2.068	15.5	9.20		
MH-4J	JCT-5J	51-58	5.31	4.5	183.5	6.68+253.5/16.5X60=6.94		10	6.93	31.19	24	4.062	50	17.00		
CI-30	JCT-5J	50	0.96	0.67	74			10	6.93	4.64	18	2.554	17.5	8.50		
JCT-5J	JCT 4	50-58	6.27	5.17	270	6.94+183.5/17X60=7.12		10	6.93	35.83	24	4.062	50	17.00		
JCT 4	JCT-6J	49-58	7.67	6.15	248	7.12+270/17X60=7.38		10	6.93	42.62	30	2.735	95	12.50		
DI-10	CI-28	45	0.76	0.38	50			10	6.93	2.63	18	1.320	13	6.00		
CI-28	JCT-6J	45,48	1.82	1.23	43			10	6.93	8.52	18	1.907	16.5	10.00		
JCT-6J	JCT 5	45,48-58	9.49	7.38	52	7.38+248/12.5X60=7.71		10	6.93	51.14	30	2.736	80	16.00		
JCT 5	MH-5J	45,47-58	9.77	7.62	92.5	7.71+52/16X60=7.76		10	6.93	52.81	30	1.646	60	12.00		
MH-5J	JCT-7J	45,47-58	9.77	7.62	8	7.76+92.5/12X60=7.89		10	6.93	52.81	42	4.547	95	10.50		
DI-9	JCT-7J	72	28.1	14.05	17		47	47	2.95	41.45	30	1.941	65	13.00		
JCT-7J	JCT-8J	45,47-58,72	37.87	21.67	448	7.89+8/10.5X60=7.90		10	6.93	150.17	42	4.547	240	24.00		
LINE	"K"															
DI-8	JCT 1K	73	1.86	0.93	66			10	6.93	6.44	24	2.030	35	9.50		
LINE	"L"															
CI-47	JCT-1L	67	2	1.32	233		6.17	10	6.93	9.15	18	1.575	14.0	8.50		
CI-46	JCT-1L	66	1.2	0.67	73		7.5	10	6.93	6.64	18	1.192	12.0	7.00		
JCT-1L	MH-1L	66-67	3.2	1.99	133.5	7.5+73/6X60=7.70		10	6.93	13.79	24	1.500	29	9.50		
CI-45	MH 1L	65	1.55	0.84	73		7.58	10	6.93	5.82	18	1.027	11	6.70		
MH 1L	JCT-3L	65-67	4.75	2.83	143.5	7.70+133.5/6.7X60=8.03		10	6.93	19.61	30	0.612	35	7.00		
CI-44	JCT-3L	64	1.02	0.57	73		7.61	10	6.93	3.95	18	1.315	12.5	6.50		
JCT-3L	JCT 4L	64-67	5.77	3.4	74	8.03+143.5/7X60=8.37		10	6.93	23.56	30	0.612	35	7.50		
JCT 4L	MH-2L	62,64-67	6.49	4.05	210.5	8.37+74/7.5X60=8.54		10	6.93	28.07	36	0.732	60	9.50		
CI-43	MH-2L	63	0.83	0.55	73		8.03	10	6.93	3.81	18	1.658	14	7.00		
MH-2L	MH-3L	62-67	7.32	4.6	491	8.54+210.5/9.5X60=8.91		10	6.93	31.88	36	0.735	60	9.00		
CI-41	MH-3L	61	0.85	0.63	73		4.27	10	6.93	4.37	18	1.000	11	6.00		
MH-3L	CGI-40	61-67	8.17	5.23	245.5	8.91+491/9X60=9.82		10	6.93	36.24	36	0.741	63	9.00		
CI-39	JCT 5L	59	0.96	0.59	73		2.98	10	6.93	4.09	18	1.137	11.5	6.00		
CGI-40	HW-2	59-67	9.83	6.45	70			10	6.93	44.7	42	0.400	70	7.50		
LINE	"M"															
DI-12	CI-49	71	1.55	0.84	97		6.25	10	6.93	5.82	18	1.371	13	7.20		
CI-49	JCT-1M	70-71	3.5	1.9	89	6.25+97/7.2X60=6.47	6.94	10	6.93	13.17	24	0.904	24	7.80		
CI-48	JCT-1M	69	1.4	0.9	18			10	6.93	6.24	18	2.566	18	9.50		
JCT-1M	JCT 2M	69-71	4.9	2.8	109	6.94+8.9/7.8X60=7.13		10	6.93	19.4	24	0.904	24	8.50		
DI-11	SET	68-71	6.65	3.68	110	7.13+109/8.5X60=7.34		10	6.93	25.5	30	0.500	32	7.00		



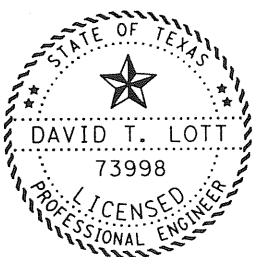
8/16/1999
David Lott, P.E.

HYDRAULIC CALCULATIONS SHEET 4 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)99	87
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		FM 740

STORM SEWER CALCULATIONS SHEET 1 OF 2

FROM	TO	DA NO.	TOTAL DA (AC)	TOTAL CA	LENGTH (FT)	TIME OF CONCENTRATION			I (IN/HR)	Q (CFS)	DESIGN				
						ALONG SEWER LINE	INLET TIME	USED IN DESIGN			DIA. PIPE	SLOPE (%)	CAP. (CFS)	VEL. (FT/S)	
LINE	"C"														
CI-7	CI-6	14	0.19	0.16	83		1.52	10	6.93	1.13	18	0.639	8.8	3.70	
CI-6	MH-1C	14,16	1.72	1.41	67	$1.52+83/3.7X60=1.89$	3.13	10	6.93	9.81	18	1.500	13.5	8.30	
LINE	"D"														
CI-8	CI-9	17	0.73	0.63	145		1.67	10	6.93	4.37	18	5.276	25.5	11.00	
CI-9	CI-10	17,18	3.23	2.38	84	$1.67+145/11X60=1.89$	4.35	10	6.93	16.49	18	5.798	27	16.00	
CI-10	CI-10A	17,18,19/2	4.24	3.14	6	$4.35+84/16X60=4.37$	5.24	10	6.93	21.76	30	10.000	140	21.00	
CI-10A	JCT-1D	17,18,19	5.45	3.93	198	$5.24+6/21X60=5.24$	5.24	10	6.93	27.23	30	3.420	8	15.00	
JCT-1D	JCT-2D	17,18,19	5.45	3.93	145	$5.24+198/15X60=5.46$	5.46	10	6.93	27.23	36	0.983	70	9.50	
CI-11A	CI-11	20	2.7	1.89	6		8.11	10	6.93	13.1	18	4.667	24	14.00	
CI-11	JCT-2D	20	2.7	1.89	6	$8.11+6/14X60=8.13$	8.13	10	6.93	13.1	18	6.167	27	16.20	
JCT-2D	JCT-3D	17 - 20	8.15	5.82	30	$8.13+6/16.2X60=8.13$	8.11	10	6.93	40.33	36	0.983	70	11.50	
CI-12	JCT-3D	21	0.13	0.12	6		0.67	10	6.93	0.84	18	6.333	28	4.80	
JCT-3D	JCT-4D	17 - 21	8.28	5.94	45	$8.13+30/11.5X60=8.17$	8.11	10	6.93	41.16	36	0.983	70	10.50	
CI-13	JCT-4D	22	0.220	0.200	6		1.28	10	6.93	1.39	18	3.667	21	7.00	
JCT-4D	JCT-1F	17 - 22	8.50	6.14	29	$8.17+45/10.5X60=8.19$	8.11	10	6.93	42.55	36	0.983	70	11.00	
LINE	"E"														
DI-4	JCT-1E	26A	0.3	0.27	101		0.933	10	6.93	1.87	18	2.955	19	7	
DI-3	JCT-1E	26	0.7	0.59	16		0.667	10	6.93	4.09	18	13.625	40	15	
JCT-1E	JCT-2E	26,26A	1	0.86	291	$0.933+101/7X60=1.17$		10	6.93	5.96	18	2.740	18	7	
JCT-2E	JCT-3E	26,26A	1	0.86	5	$1.17+291/97X60=1.86$		10	6.93	5.96	24	1.595	31	4.5	
CI-14	JCT-3E	28	0.29	0.26	6			10	6.93	1.8	18	2.167	16	6.5	
JCT-3E	JCT-4F	26A,26,28	1.29	1.12	19	$1.86+5/4.5X60=1.88$		10	6.93	7.76	24	1.595	31	8.2	
LAT 5F															
CI-15	CI-16	30	0.3	0.27	45			10	6.93	1.87	18	9.644	34	11	
CI-16	JCT 5F	30-31	0.52	0.47	20			10	6.93	3.26	18	24.300	55	8.5	
LAT 6F															
CI-17	JCT 6F	32	0.54	0.49	32			10	6.93	3.4	18	19.250	50	16	
LINE	"F"														
DI-1	JCT 1F	23	5.04	3.53	4			10	6.93	24.26	24	3.640	46	15.5	
DI-2	JCT 2F	24	5.34	3.74	4			10	6.93	25.92	24	3.640	46	17	
JCT 2F	OUTFALL	17-24,26A,26,28,30-32	21.23	15.49	108			10	6.93	107.35	54	0.500	150	d/D	10
LINE	"G"														
CI-18	CI-19	25,27	4.59	3.43	18		3.91	10	6.93	23.77	24	3.316	44	9.00	
CI-19	CI-20	25,27,33	9.31	6.79	271	$3.91+38/9X60=3.98$	4.28	10	6.93	47.05	30	3.398	85	17.00	
CI-20	JCT-1G	25,27,33,34	10.07	7.4	236.5	$4.28+271/17X60=4.55$		10	6.93	51.28	30	5.035	100	21.00	
DI-5	JCT-1G	37	1.54	1.32	98			10	6.93	9.15	18	3.867	22	12.00	
JCT-1G	CI-21	25,27,33,34,37	11.61	8.72	53.5	$4.55+236.5/21X60=4.74$		10	6.93	60.43	30	5.035	100	22.00	
CI-21	CI-22	25,27,33-35,37	12.89	9.89	286	$4.74+53.5/22X60=4.78$		10	6.93	68.54	30	5.326	105	21.50	
DI-6	CI-22	38	3.57	2.57	104		7.35	10	6.93	17.81	36	2.60	115	12.00	
CI-22	CI-24	25,27,33-38	17.36	13.22	342	$7.35+104/12X60=7.49$		10	6.93	91.61	36	4.00	150	22.00	
CI-24	CI-25	25,27,33-38,40	18.28	13.97	45	$7.49+342/20X60=7.78$		10	6.93	96.81	36	4.00	150	22.00	
CI-25	JCT-3I	25,27,33-38,40,43	18.58	14.24	32	$7.78+45/22X60=7.81$		10	6.93	98.68	36	25.44	350	44.00	
LINE	"I"														
DI-7	JCT-1I	39	4.4	3.08	303		8.33	10	6.93	21.34	24	3.178	44	14.00	
CI-23	JCT-2I	42	0.56	0.48	28			10	6.93	3.33	18	23.390	120	17.00	
CI-26	JCT 4I	41	0.81	0.7	30			10	6.93	4.85	18	29.500	65	21.00	
EX. 66"	OUTFALL	25,27,33-44	90.05	64.49	102	$8.33+303/14X60=8.69$		10	6.93	624.05	72	1.50	550	23.00	



8/16/1999

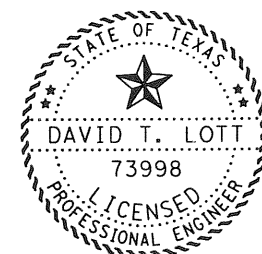
David Lott, P.E.

HYDRAULIC CALCULATIONS SHEET 3 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99 (413)MM	86
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033
		HIGHWAY NO.
		FM 740

INLET CALCULATIONS

ID	INLET LOCATION	DA NO	Q cfs	CO cfs	Qo cfs	Z	Z/N	S ft/ft	y ft	P ft	a ft	qL cfs	Lr curb ft	"E" Slot	Lr Slot ft	La ft	La/Lr	a/y	Curg Q1/Qo Curg	Q1/Qo Slot	Q1 cfs	Q1-Qo cfs	Carry-over to:	Remarks	
CI-7	LT STA 130+40	14	1.13		1.13	48	3200	0.11	0.15	7.05	0.25	0.3	3.77			5									
EXIST	CI-18 IH 30 PROJECT	15	1.62																						
CI-6	RT STA 130+00	16	8.68		8.68	48	3200	0.015	0.3	14.3	0.25	0.45	19.29			15	0.78	0.83	0.87		7.55	1.13		EXIST CI-18 IH30 PROJ.	
CI-8	RT STA 135+50	17	4.36		4.36	48	3200	0.043	0.19	9.06	0.25	0.36	12.11			15									
CI-9	RT STA 137+00	18	12.13		12.13	48	3200	0.053	0.27	12.79	0.25	0.42	28.88			15	0.52	0.93	0.65		7.88	4.25	CI-10		
CI-10 & 10A	RT STA 137+89	19	10.77	4.25	15.02	48	3200	0.054	0.29	13.81	0.25	0.45	33.38			25	0.075	0.86	0.85		12.77	2.25	CI-11		
CI-11 & 11A	RT STA 14000	20	13.1	2.25	15.35	48	3200	0.0265	0.33	15.91	0.25	0.49	31.33			25	0.08	0.76	0.89		13.66	1.69	CI-12		
CI-12	RT STA 141+30	21	0.81	1.69	2.5	48	3200	0.0075	0.21	10.21	0.25	0.38	6.58			10									
CI-15	LT STA 141+50	30	1.87		1.87	77	5133	0.005	0.17	13.27	0.25	0.34	5.5			5	0.91	1.47	0.94		1.76	0.11	CI-16		
DI-4	RT STA 146+32	26A	1.87		1.87																			2-GR Q=2.84 h=0.1 TY C	
DI-3	RT STA 145+45	26	4.07		4.07																			3-GR Q=4.26 h=0.1 TY C	
DI-2	RT STA 142+30	24	25.9		25.9																			3-GR Q=30.9 h=1.0 TY C	
DI-1	RT STA 142+10	23	24.45		24.45																			3-GR Q=30.9 h=1.0 TY C	
CI-14	RT STA 142+45	28	1.81		1.81	48	3200	0.009	0.18	8064	0.25	0.35	5.17			5	0.97	1.39	0.98		1.77	0.04	CI-13		
CI-13	RT STA 141+85	22	1.37	0.04	1.41		$L=0.324(1.41)/(0.5)1.5 =$					1.29	2.58			15								SAG	
CI-17	LT STA 142+50	32	3.37		3.37	48	3200	0.0095	0.23	11.04	0.25	0.4	8.43			5	0.59	1.09	0.71		2.39	0.98	CI-16		
CI-16	LT STA 142+00	31	1.37	1.09	2.46		$L=0.324(2.46)/(0.5)1.5 =$					2.25	4.51			15								SAG	
CI-18 & 18A	RT STA 184+36	27	18.91		18.91	48	3200	0.072	0.297	14.26	0.25	0.45	42.02			30	0.69	0.84	0.81		15.32	3.59	CI-20		
CI-19 & 19A	RT STA 148+24	33	23.28		23.28	48	3200	0.072	0.321	15.42	0.25	0.47	49.5			30	0.61	0.78	0.74		17.23	6.05	CI-20		
CI-20 & 20A	LT STA 151+00	34	4.53	9.64	14.17	48	3200	0.044	0.292	14.04	0.25	0.45	31.49			20	0.64	0.85	0.77		10.91	3.26	CI-21		
CI-21 & 21A	LT STA 154+00	35	7.8	3.26	11.06	46.1	3073	0.05	0.264	12.18	0.25	0.42	26.33			20	0.76	0.95	0.85		9.4	1.66	CI-22		
CI-22	LT STA 156+90	36	5.49	1.66	7.15	35.7	2380	0.05	0.0246	8.82	0.25	0.4	17.88			15	0.84	1.01	0.91		6.51	0.64	CI-24		
DI-5	RT STA 152+90	37	9.18		9.18																			1-GR Q=9.0 h=0.5 TY C	
DI-6	RT STA 156+90	38	17.82		17.82																			2-GR Q=21.9 h=1.0 TY C	
DI-7	RT STA 158+35	39	21.34		21.34																			2-GR Q=21.9 h=1.0 TY C	
CI-24	LT STA 160+37	40	5.49	0.64	6.13	35.7	2380	0.007	0.336	12.02	0.25	0.419	12.561			10	0.8	0.741	0.89		5.46	0.67	CI-25		
CI-25	LT STA 160+87	43	1.87	0.81	2.68	35.7	2380									15								LOW POINT SAG	
CI-38	RT STA 195+00	58	3.04		3.04	48	3200	0.01	0.022	10.14	0.25	0.38	8			10									
CI-37	LT STA 195+00	57	3.04		3.04	48	3200	0.01	0.22	10.14	1.25	0.38	8			10									
CI-36	RT STA 189+70	56	3.98		3.98	48	3200	0.01	0.24	11.51	0.25	0.4	9.95			10									
CI-35	LT STA 189+70	55	3.98		3.98	48	3200	0.01	0.24	11.51	0.25	0.4	9.95			10									
CI-34	RT STA 184+50	53	3.64		3.64	48	3200	0.01	0.23	11.14	0.25	0.4	9.1			10									
CI-33	LT STA 184+50	54	3.64		3.64	48	3200	0.01	0.23	11.14	0.25	0.4	9.1			10									
CI-32	RT STA 179+10	52	3.83		3.83	48	3200	0.02	0.21	9.97	0.25	0.38	10.08			10	0.99	1.19	0.99		3.79	0.04	CI-30		
CI-31	LT STA 176+85	51	5.88		5.88	36	2400	0.04	0.24	8.59	0.25	0.4	14.7			15									
CI-30	LT STA 175+00	50	4.66	0.04	4.7	48	3200	0.04	0.2	9.42	0.25	0.37	12.7			10	0.79	1.25	0.87		4.09	0.61	CI-29		
CI-29	RT STA 172+00	49	6.79	0.61	7.4	36	2400	0.05	0.25	8098	0.25	0.41	18.05			15	0.83	1	0.9		6.66	0.74	CI-27		
DI-10	LT STA 169+35	45	2.63		2.63																			1-GR Q=0.90 h=0.5 TY C	
CI-28	LT STA 169+65	48	4.26		4.26	41	2700	0.04	0.2	8.25	0.25	0.37	11.51			15									
CI-27	RT STA 169+00	47	1.66	0.74	2.4	73	4900	0.03	0.14	10.07	0.25	0.31	7.74			10								3-GR Q=37.6 h=1.5 TY C	
DI-9	RT STA 168+00	72	37.37		37.37																				
CI-23	RT STA 161+20	42	3.33		3.33	36	2400	0.01	0.25	9	0.25	0.41	8.12			10									
CI-26	LT STA 161+47	41	4.83		4.83	36	2400	0.01	0.29	10.44	0.25	0.45	10.73			10	0.93	0.86	0.97		4.69	0.14	CI-25		
DI-12	LT STA 221+00	71	5.81		5.81																				1-GR Q=9.0 h=0.5 TY C
CI-49	LT STA 220+00	70	7.31		7.31	48	3200	0.012	0.29	13.92	0.25	0.45	16.24			15	0.92	0.83	0.96		7.02	0.29	CI-48		
CI-48	LT STA 219-27	69	6.21	0.29	6.5		$L=0.324(6.5)/(0.5)1.5 =$					5.96	11.91			15								SAG	
DI-11	LT STA 218+00	68	6.06		6.06																				1-GR Q=9.0 h=0.5 TY C
CI-47	LT STA 215+20	67	9.15		9.15	48	3200	0.015	0.29	13.82	0.25	0.45	20.33			15	0.74	0.86	0.84		7.69	1.45	CI-46		
CI-46	LT STA 213+60	66	4.66	1.46	6.12	48	3200	0.02	0.25	11.88	0.25	0.41	14.93			15									
CI-45	LT STA 212+25	65	5.81		5.81	48	3200	0.01	0.28	13.27	0.25	0.45	12.91			15									
CI-44	LT STA 210+80	64	3.95		3.95	48	3200	0.004	0.28	13.63	0.25	0.45	8.78			10									
CI-43	LT STA 207+70	63	3.79		3.79	48	3200	0.004	0.28	13.42	0.25	0.45	8.42			10									
CI-42	RT STA 209+70	62	4.49		4.49	50	3333	0.004	0.29	14.67	0.25	0.45	9.98			10									
CI-41	LT STA 203+00	61	4.36		4.36	48	3200	0.004	0.29	14.15	0.25	0.45	9.69			10									
CI-40	RT STA 200+19	60	4.37		4.37	48	3200	0.004	0.3	14.16	0.25	0.45	9.71			10									
CI-39	LT STA 199+90	59	4.07		4.07	48	3200	0.006	0.26	12.77	0.25	0.41	9.93			10									
DI-8	RT STA 163+00	73	6.44		6.44																				1-GR Q=9.0 h=0.5 TY C



8/16/1999

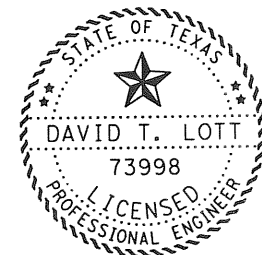
David Lott, P.E.

HYDRAULIC CALCULATIONS

</

RUNOFF CALCULATIONS

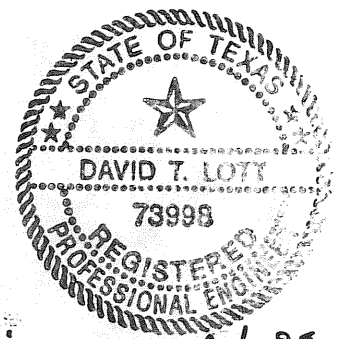
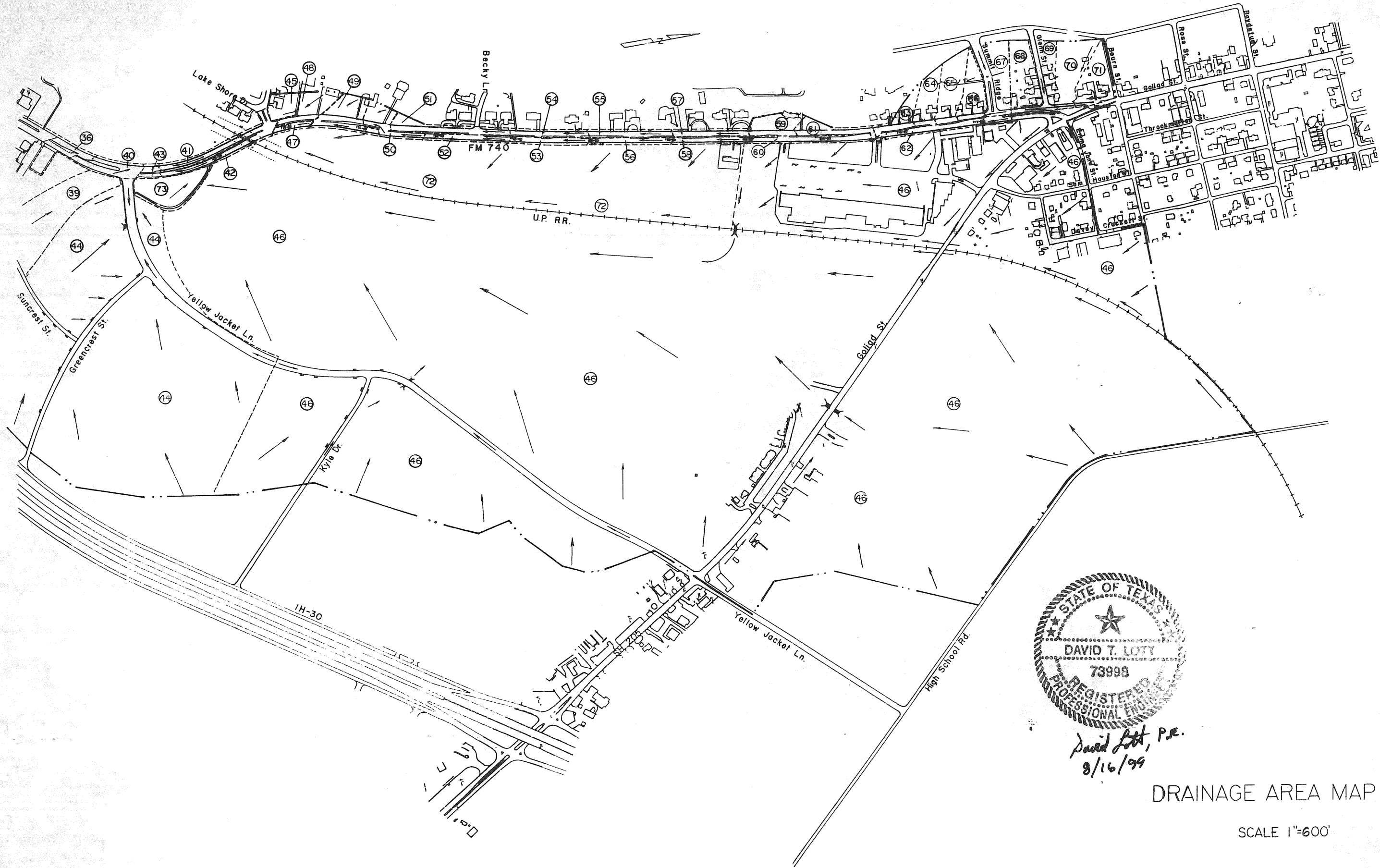
DRAINAGE AREA NO.	ACRES	ACRES-DRAINED				TOTAL CA	TIME OF CONCENTRATION (MIN)	FREQ. (YEARS)	I 5 (IN/HR)	Q 5 (CFS)	REMARKS
		PAVT. C=0.9	R. O. W. (avg) C=0.5	COMM. INDUST C=0.7	RESID C=0.5						
11	0.19	0.19				0.17	200/(3.0X60)=1.11	5	6.93	1.19	DRAINS INTO EAX CI-15 ON IH30 PROJECT
12	0.17		0.17			0.09	80/(1.6X60)=0.83	5	6.93	0.59	DRAINS INTO EX DI 25 ON IH30 PROJECT
13	0.3	0.24	0.06			0.25		5	6.93	1.70	DRAINS INTO OUTFALL W. OF FM740
14	0.19	0.17	0.02			0.16	200/(2.2X60)=1.52	5	6.93	1.13	
15	0.26	0.26				0.23	200/(3.0X60)=1.11	5	6.93	1.62	DRAINS INTO EX CI 18 ON IH30 PROJECT
16	1.53	1.22	0.31			1.25	450/(2.4X60)=3.13	5	6.93	8.68	
17	0.73	0.66	0.07			0.63	350/(3.5X60)=1.67	5	6.93	4.36	
18	2.5	0.5	0.5	1.5		1.75	600/(2.3X60)=4.35	5	6.93	12.13	
19	2.22	0.22	0.22	1.78		1.55	660/(2.1X60)=5.24	5	6.93	10.77	
20	2.7	0.27	0.27	2.16		1.89	730/(1.5X60)=8.11	5	6.93	13.10	
21	0.13	0.13				0.12	120/(3.0X60)=0.67	5	6.93	0.81	
22	0.22	0.22				0.20	100/(1.3X60)=1.28	5	6.93	1.37	
23	5.04			5.04		3.53	820/(2.8X60)=4.88	5	6.93	24.45	
24	5.34			5.34		3.74	750/(2.8X60)=4.46	5	6.93	25.90	
25	1			1		0.70	320/(3.7X60)=1.44	5	6.93	4.85	
26	0.7	0.49		0.21		0.59	200/(5.0X60)=0.67	5	6.93	4.07	
26A	0.3	0.3				0.27	280/(5.0X60)=0.93	5	6.93	1.87	
27	3.59	3.59		2.51		2.73	750/(2.0X60)=6.25	5	6.93	18.91	
28	0.29	0.29				0.26	220/(2.0X60)=1.83	5	6.93	1.81	
29	0.32	0.32				0.29	300/(3.4X60)=1.47	5	6.93	2.00	DRAINS TO EX CI ON TURTLE COVE
30	0.3	0.3				0.27	200/(2.0X60)=1.67	5	6.93	1.87	
31	0.22	0.22				0.20	90/(1.5X60)=1.00	5	6.93	1.37	
32	0.54	0.54				0.49	350/(3.4X60)=1.72	5	6.93	3.37	
33	4.72	1.33		3.09		3.36	900/(3.5X60)=4.29	5	6.93	23.28	
34	0.76	0.61		0.15		0.65	330/(3.5X60)=1.57	5	6.93	4.53	
35	1.28	1.15		0.13		1.13	640/(4.5X60)=2.37	5	6.93	7.80	
36	0.9	0.81		0.09		0.79	420/(4.5X60)=1.56	5	6.93	5.49	
37	1.54	1.23		0.31		1.32	380/(3.9X60)=1.62	5	6.93	9.18	
38	3.57	0.36		3.21		2.57	800/(5.0X60)=2.67	5	6.93	17.82	
39	4.4			4.4		3.08	830/(1.7X60)=8.14	5	6.93	21.34	
40	0.92	0.83	0.09			0.79	500/(3.7X60)=2.25	5	6.93	5.49	
41	0.81	0.73	0.08			0.70	600/(3.5X60)=2.86	5	6.93	4.83	
42	0.56	0.5	0.06			0.48	600/(3.5X60)=2.86	5	6.93	3.33	
43	0.3	0.3				0.27	140/(3.0X60)=0.78	5	6.93	1.87	
44	65.7			65.7		45.99	2100/(2.0X60)=17.5	5	6.93	318.71	Q IS IN EX 66" RCP
45	0.76				0.76	0.38	250/(1.7X60)=2.45	5	6.93	2.63	
46											
47	0.28	0.25	0.03			0.24	280/(4.1X60)=1.14	5	6.93	1.66	
48	1.06	0.21			0.85	0.61	470/(2.3X60)=3.41	5	6.93	4.26	
49	1.4	0.7			0.7	0.98	420/(2.3X60)=3.04	5	6.93	6.79	
50	0.96	0.48			0.48	0.67	440/(3.2X60)=2.29	5	6.93	4.66	
51	1.09	0.76			0.33	0.85	760/(2.6X60)=4.87	5	6.93	5.88	
52	0.64	0.58	0.06			0.55	540/(2.1X60)=4.29	5	6.93	3.83	
53	0.61	0.55	0.06			0.53	530/(2.0X60)=4.42	5	6.93	3.64	
54	0.61	0.55	0.06			0.53	530/(2.0X60)=4.42	5	6.93	3.64	
55	0.67	0.6	0.07			0.58	550/(1.5X60)=6.11	5	6.93	3.98	
56	0.67	0.6	0.07			0.58	550/(1.5X60)=6.11	5	6.93	3.98	
57	0.51	0.46	0.05			0.44	500/(2.8X60)=2.98	5	6.93	3.04	
58	0.51	0.46	0.05			0.44	500/(2.8X60)=2.98	5	6.93	3.04	
59	0.96	0.27			0.69	0.59	250/(1.4X60)=2.98	5	6.93	4.07	
60	0.7	0.7				0.63	790/(1.8X60)=7.31	5	6.93	4.37	
61	0.85	0.51			0.34	0.63	500/(1.95X60)=4.27	5	6.93	4.36	
62	0.72	0.72				0.65	745/(2.1X60)=5.91	5	6.93	4.49	
63	0.83	0.33			0.5	0.55	480/(1.0X60)=8.0	5	6.93	3.79	
64	1.02	0.15			0.87	0.57	420/(0.9X60)=7.61	5	6.93	3.95	
65	1.55	0.16			1.39	0.84	500/(1.1X60)=7.58	5	6.93	5.81	
66	1.2	0.18			1.02	0.67	450/(1.0X60)=7.50	5	6.93	4.66	
67	2	0.8			1.2	1.32	500/(1.35X60)=6.17	5	6.93	9.15	
68	1.75				1.75	0.88	420/(1.0X60)=7.00	5	6.93	6.06	
69	1.4	0.49			0.91	0.90	400/(2.0X60)=3.33	5	6.93	6.21	
70	1.95	0.2			1.75	1.06	500/(1.2X60)=6.94	5	6.93	7.31	
71	1.55	0.16			1.39	0.84	450/(1.2X60)=6.25	5	6.93	5.81	
72	28.1				28.1	14.05	3300/(1.0X60)=55.0	5	6.93	37.37	
73	1.86		1.86			0.93	350/(1.2X60)=4.86	5	6.93	6.44	



8/16/1999
David Lott, P.E.

HYDRAULIC CALCULATIONS SHEET 1 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	STP 99(413)MM	84
STATE	STATE DIST. NO.	COUNTY
TEXAS	18	ROCKWALL
CONT.	SECT.	JOB
1014	03	033 FM 740



David Lott, P.E.
 8/16/99

DRAINAGE AREA MAP

SCALE 1"=600'

SHEET 2 of 2

© 1999  TEXAS DEPARTMENT OF TRANSPORTATION

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6		83
STATE	STATE U.S. NO.	COUNTY
TEXAS	DAL	ROCKWALL
CONTRACT	SECTION	JOB
1014	03	033
		HIGHWAY A.S.
		FM 740

Contract Addendum

708-
02117547

Contract Information 34

Sellers: BENJAMIN G EOFF

Buyers:

Property Address: 1013 STARLIGHT PLACE, ROCKWALL TX 75087

Dated:

This Addendum to Contract is entered into and is effective as of _____ by and between, Sellers, Buyers and Broker (hereinafter referred to as "the Parties") and shall be deemed to amend, modify, and supplement that certain Contract Dated 11/24/09 by and between Sellers and Buyers (the "Contract").

NOW, THEREFORE, in consideration of the mutual benefits to be derived from this Addendum and of the representations, warranties, conditions and promises hereinafter acknowledged, Sellers, Buyers and Broker hereby agree as follows:

The Parties acknowledge and agree that the Subject Property is being sold in an "as is" condition.

The Parties agree that the Seller may cancel this agreement prior to the ending date of the contract period without advance notice to the Broker, and without payment of a commission or any other consideration, if the property is conveyed to the mortgage insurer or the mortgage holder.

The Parties agree that the acceptance of Short Sale is contingent upon the approval of Wells Fargo Home Mortgage, FHA, VA government agencies, any investor, and/or mortgage insurance companies.

The Parties agree that under no circumstances will the sales contract be assignable.

This Parties agree that this Addendum together with the Sale Contract shall constitute the entire and sole agreement between the Parties with respect to the sale of the subject property and supersedes any prior agreements, negotiations, understandings, or other matters whether oral or written, with respect to the subject matter hereof. No alternations, modification, or waiver of any provision hereof shall be valid unless in writing and signed by the Parties hereto.

IN WITNESS WHEREOF, the Parties have executed this Addendum as of the date first written above.

X Seller Signature: *Benjamin G Eoff*
BENJAMIN G EOFF

X Date: 2/9/10

Seller Signature: _____

Date: _____

Buyer Signature: *Kathleen Lappen*
KATHLEEN LAPPEN

Date: 02-09-10

Buyer Signature: _____

Date: _____

Buyer's Broker / Agent Signature: _____

Date: _____