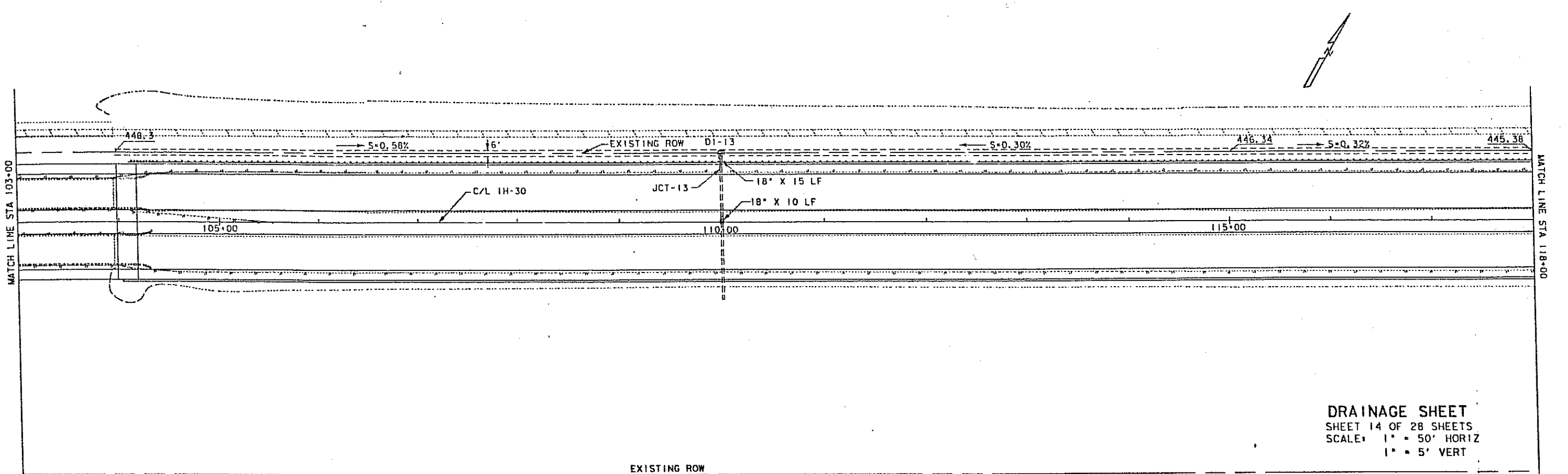
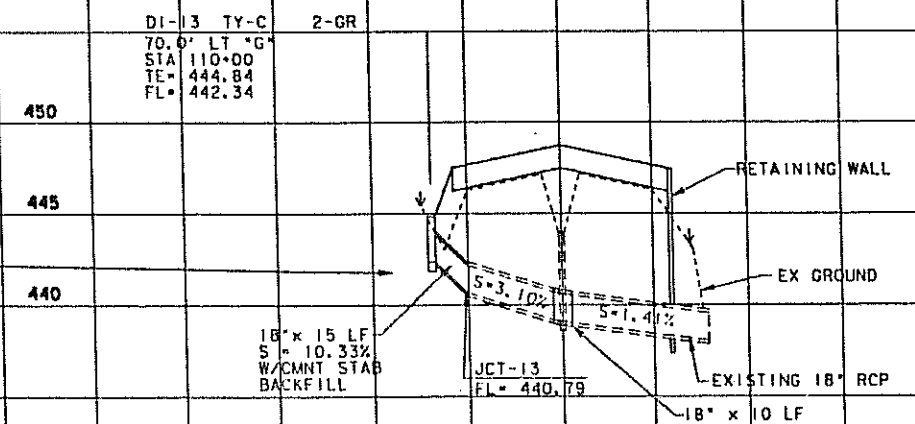
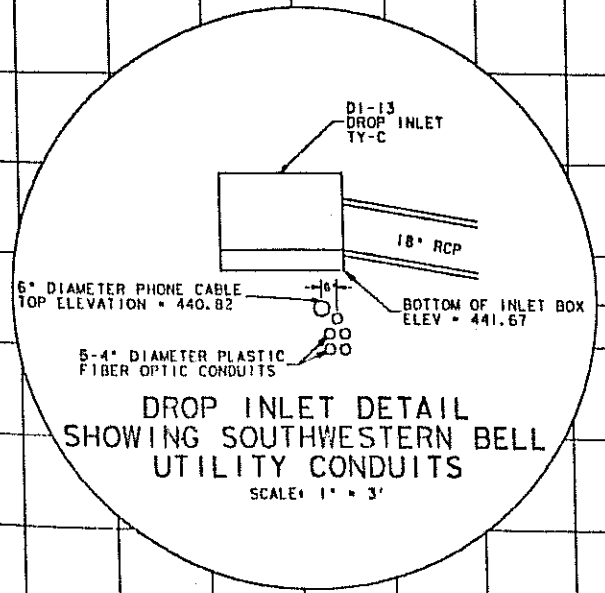




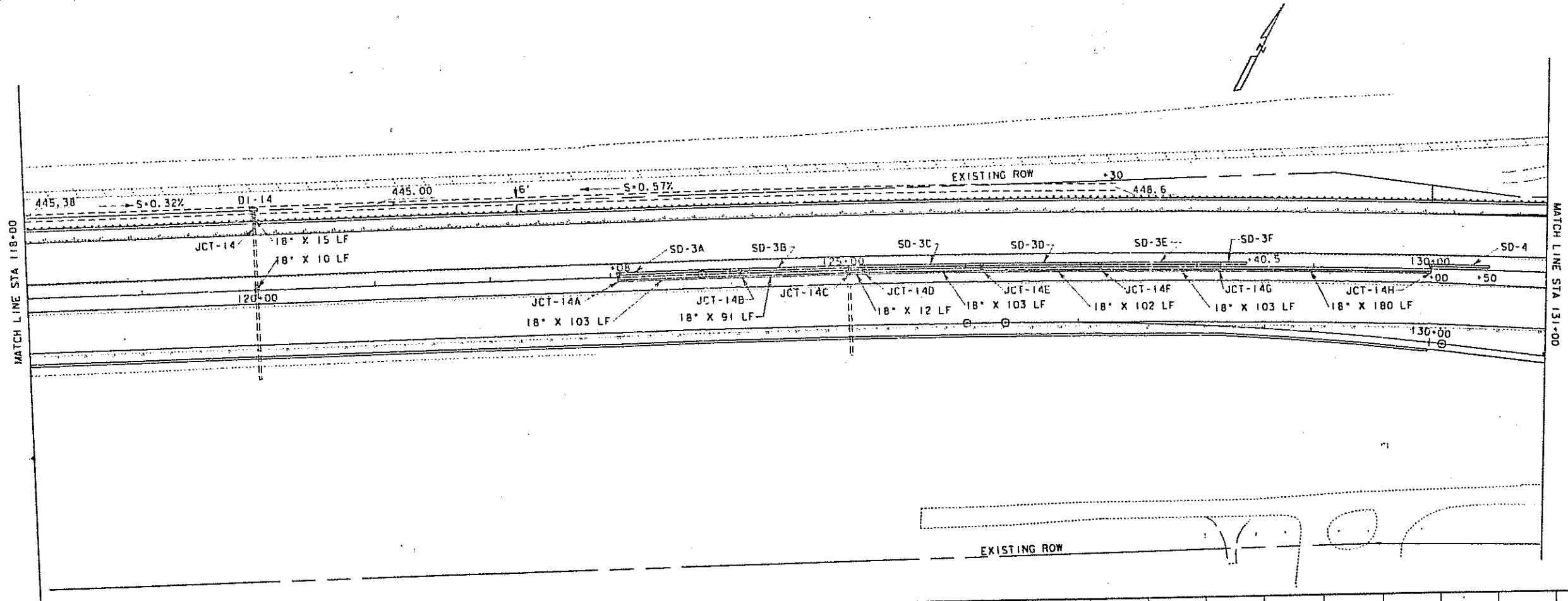
DRAINAGE SHEET
SHEET 14 OF 28 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT



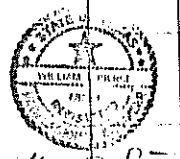
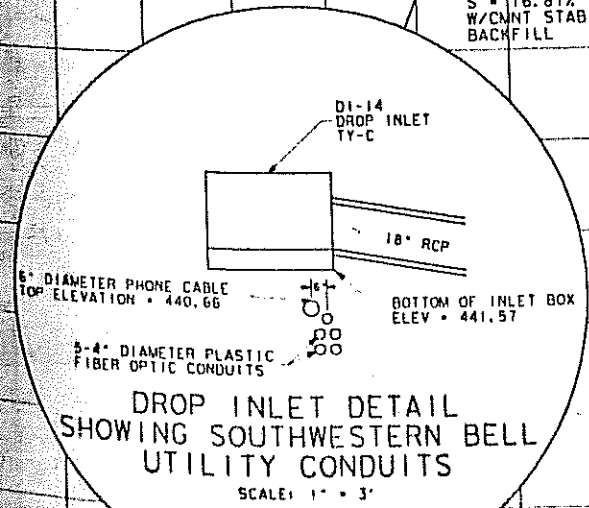
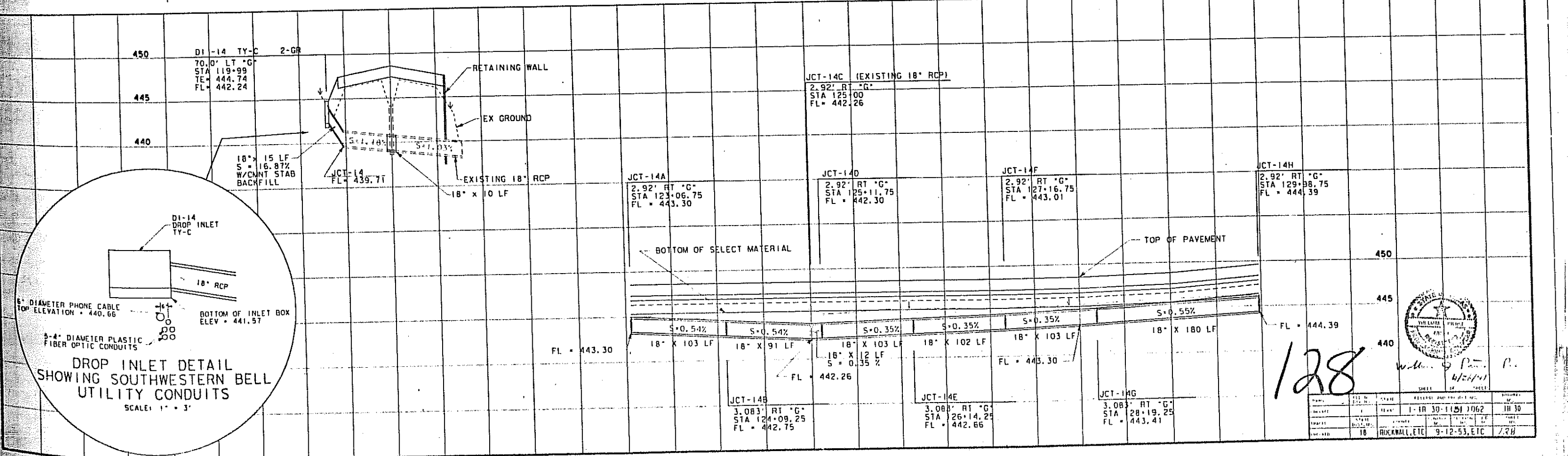
William S. P. P.E.
4/26/71

127

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	4/26/71	WSP			11 30
2					11 30
3					11 30
4					11 30
5					11 30
6					11 30
7					11 30
8					11 30
9					11 30
10					11 30
11					11 30
12					11 30
13					11 30
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16					11 30
17					11 30
18					11 30
19					11 30
20					11 30
21					11 30
22					11 30
23					11 30
24					11 30
25					11 30
26					11 30
27					11 30
28					11 30

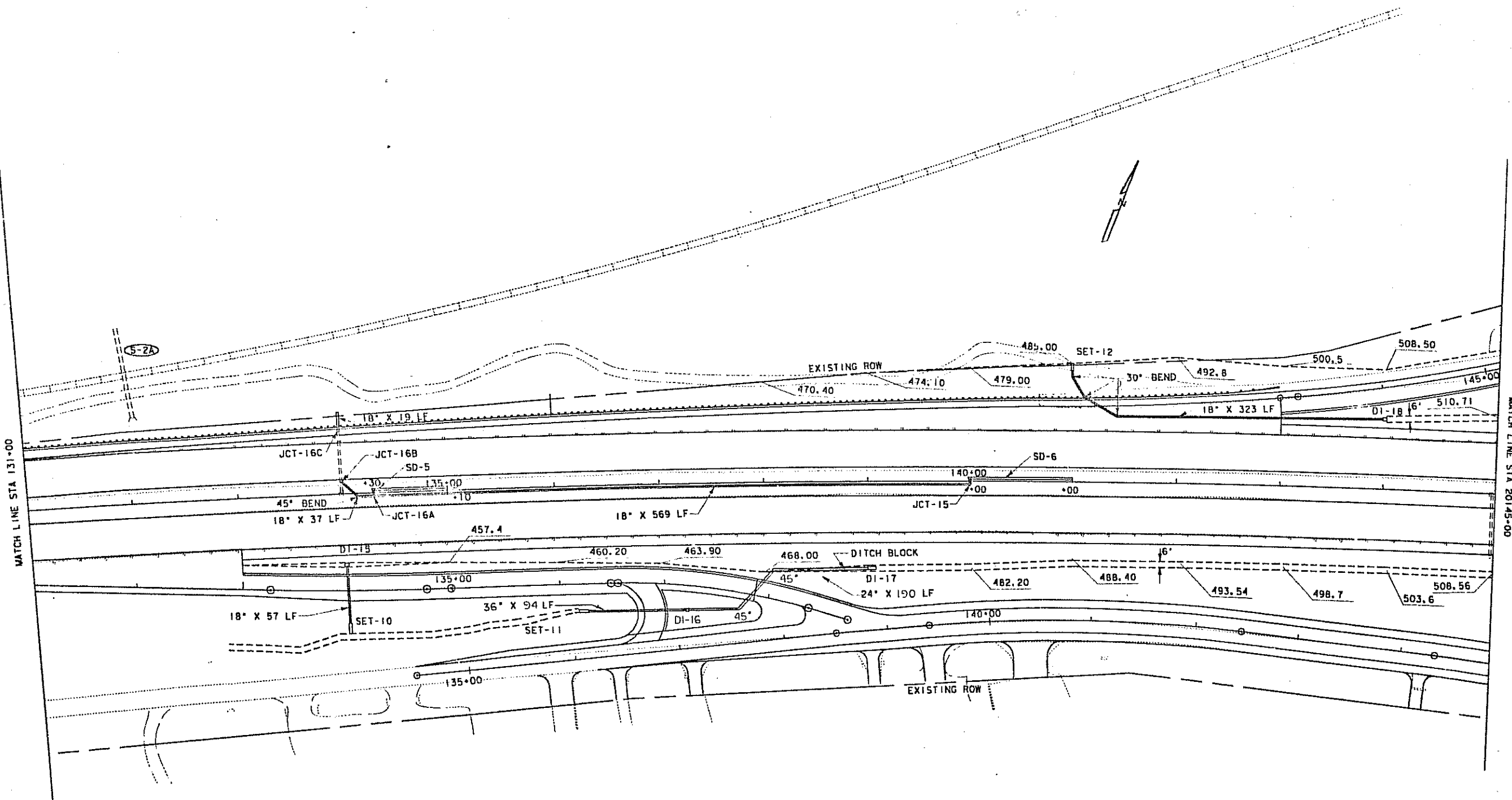


DRAINAGE SHEET
SHEET 15 OF 28 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT



128

DATE	BY	CHECKED	APPROVED
10-30-91	W. M. G. P.	W. M. G. P.	W. M. G. P.



MATCH LINE STA 131+00

MATCH LINE STA 201+45-00

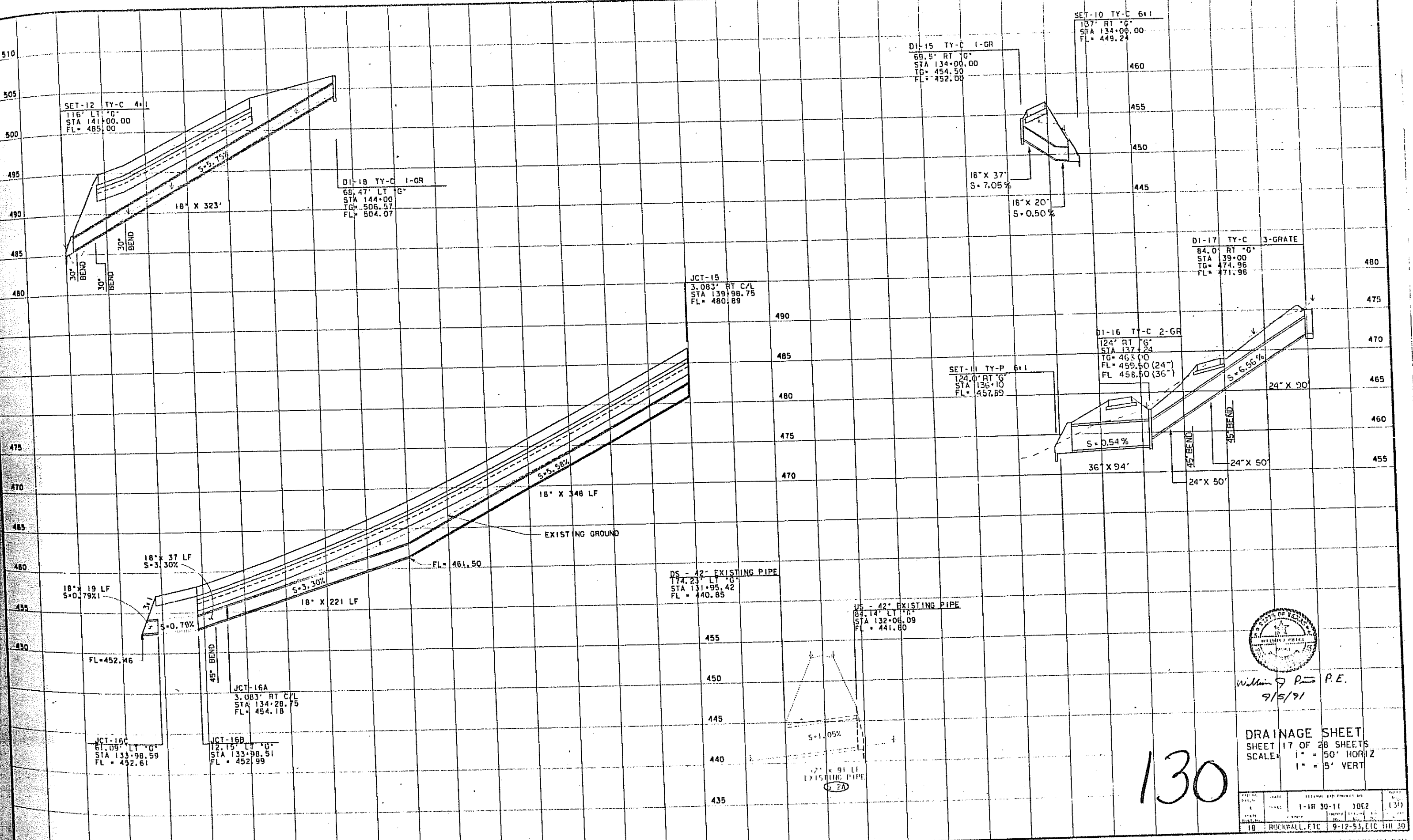


William G. Pines P.E.
9/15/91

129

DRAINAGE SHEET
SHEET 16 OF 28 SHEETS
SCALE: 1" = 50' HORIZ

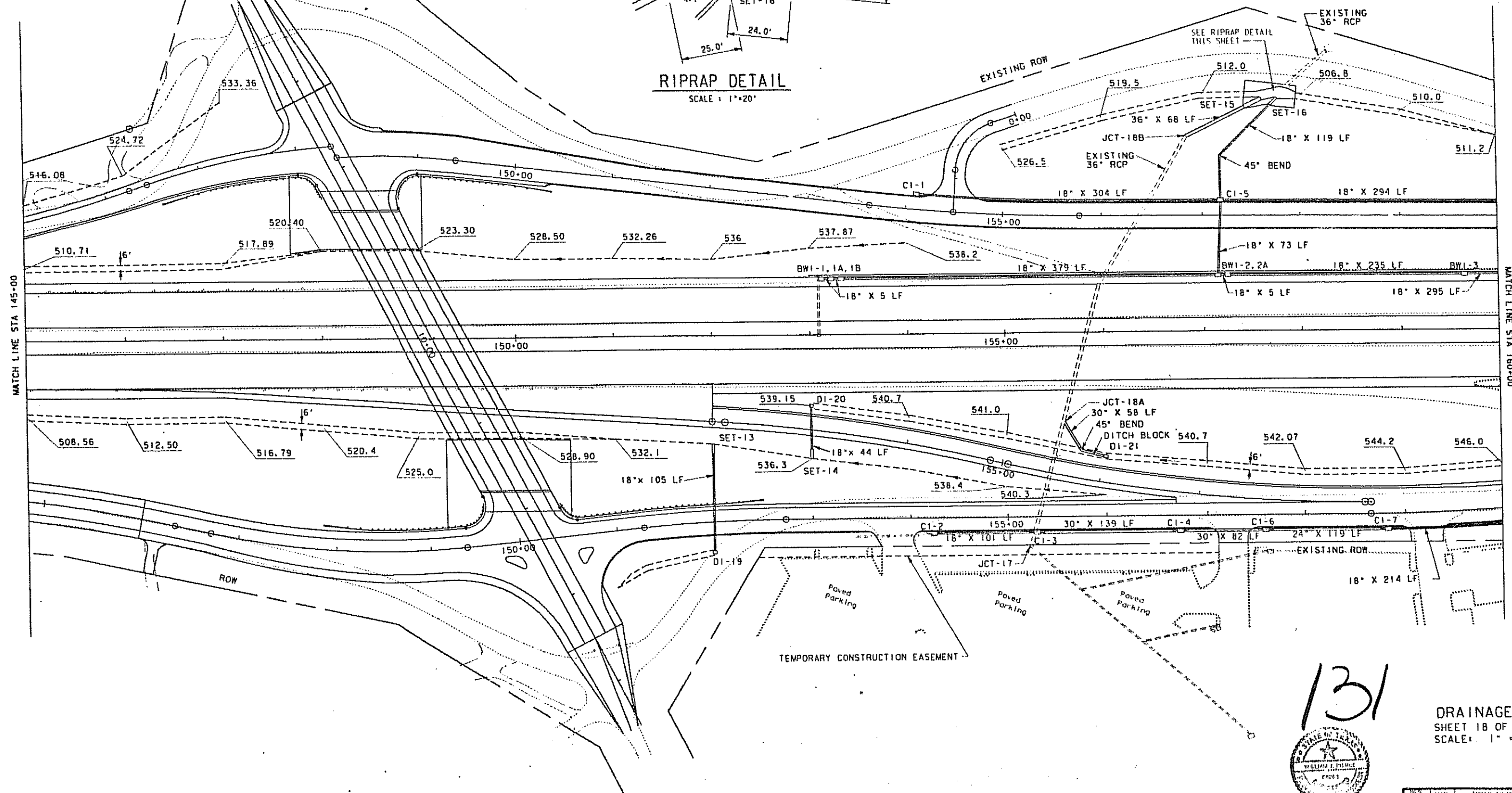
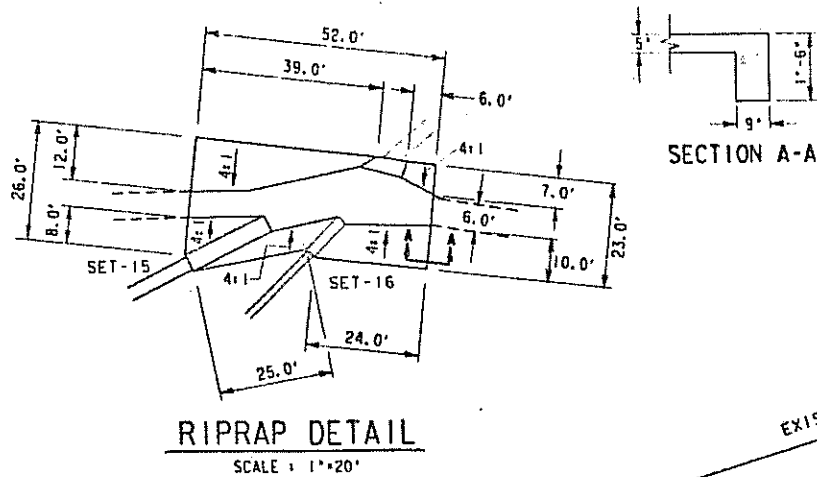
REV	DATE	BY	CHKD	DESCRIPTION
1	1-18-91	WGP	WGP	1062
2	9-12-91	WGP	WGP	1062
3	9-12-91	WGP	WGP	1062



William J. P. E.
9/5/91

DRAINAGE SHEET
SHEET 17 OF 28 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT

DATE	BY	REVISION AND PROJECT NO.	DATE
1-18-30-11	1062	130	
10	ROCKWALL, ETC	9-12-53, ETC	111, 10



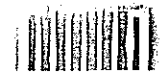
131

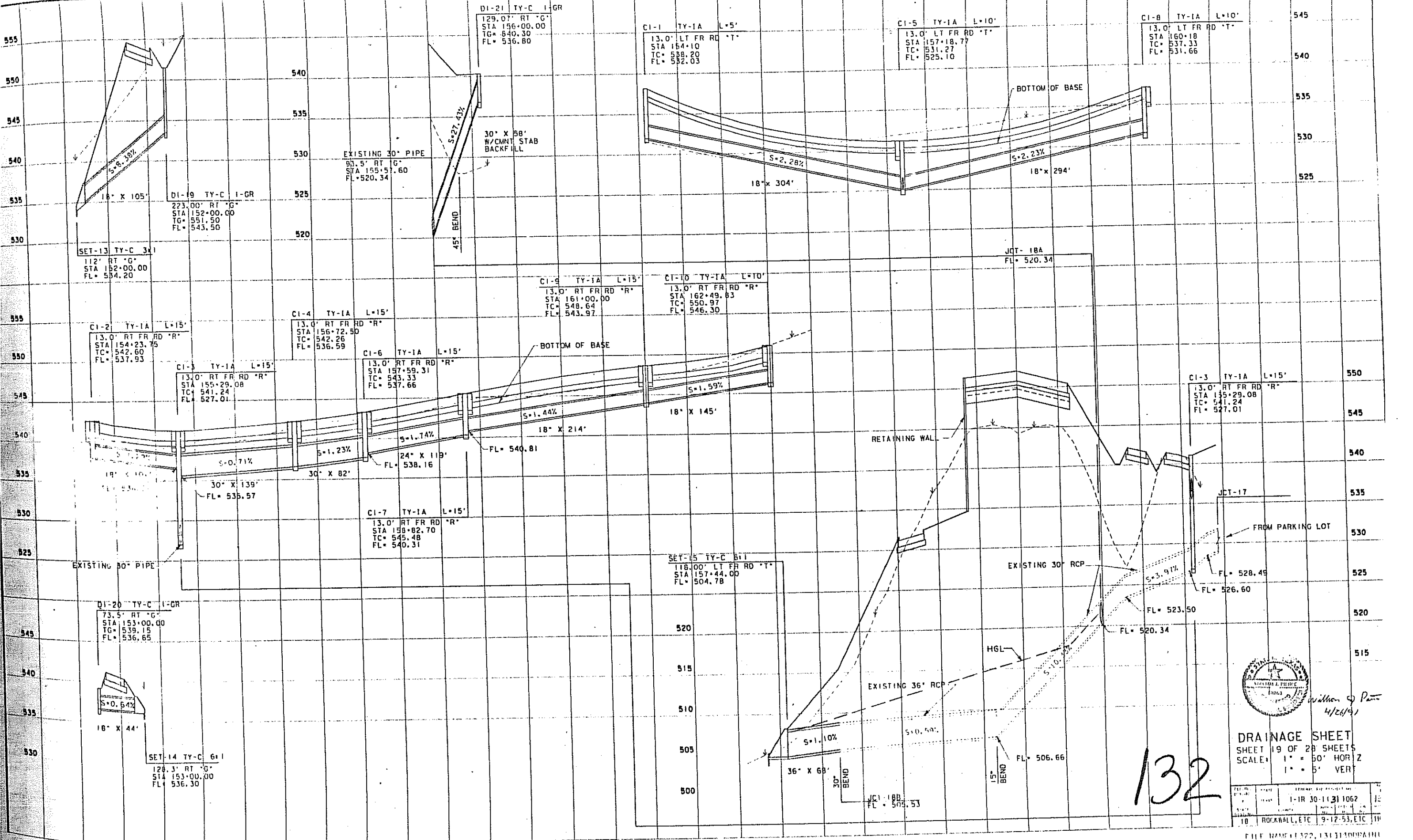
DRAINAGE SHEET
SHEET 18 OF 28 SHEETS
SCALE: 1" = 50' HORIZ



William J. Finkle P.E.
4/26/91

NO.	DATE	DESCRIPTION	BY	CHKD.
1	1-18-30-11	311062	131	
18	ROCKWALL, ETC	9-12-53, ETC	11 30	





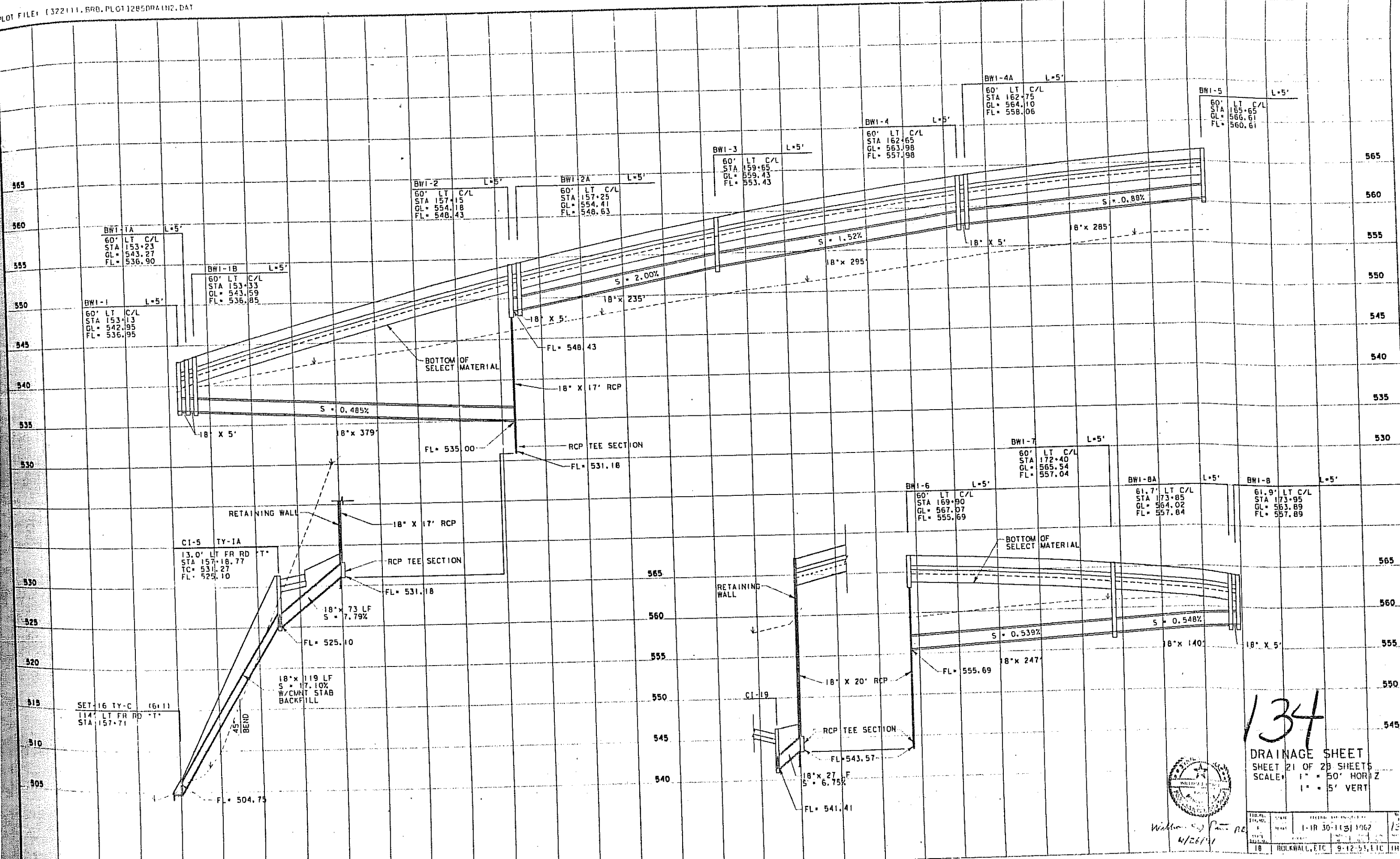

William J. Paine
4/26/91

DRAINAGE SHEET
SHEET 19 OF 28 SHEETS
SCALE: 1" = 50' HOR Z
1" = 5' VER

FILE NO.	1-1R 30-1131 1062
DATE	9-12-53, ETC
TO	ROCKWELL, ETC

FILE NAME: C:\22111.BRR.PLOT\205DRAIN1.DAT

132

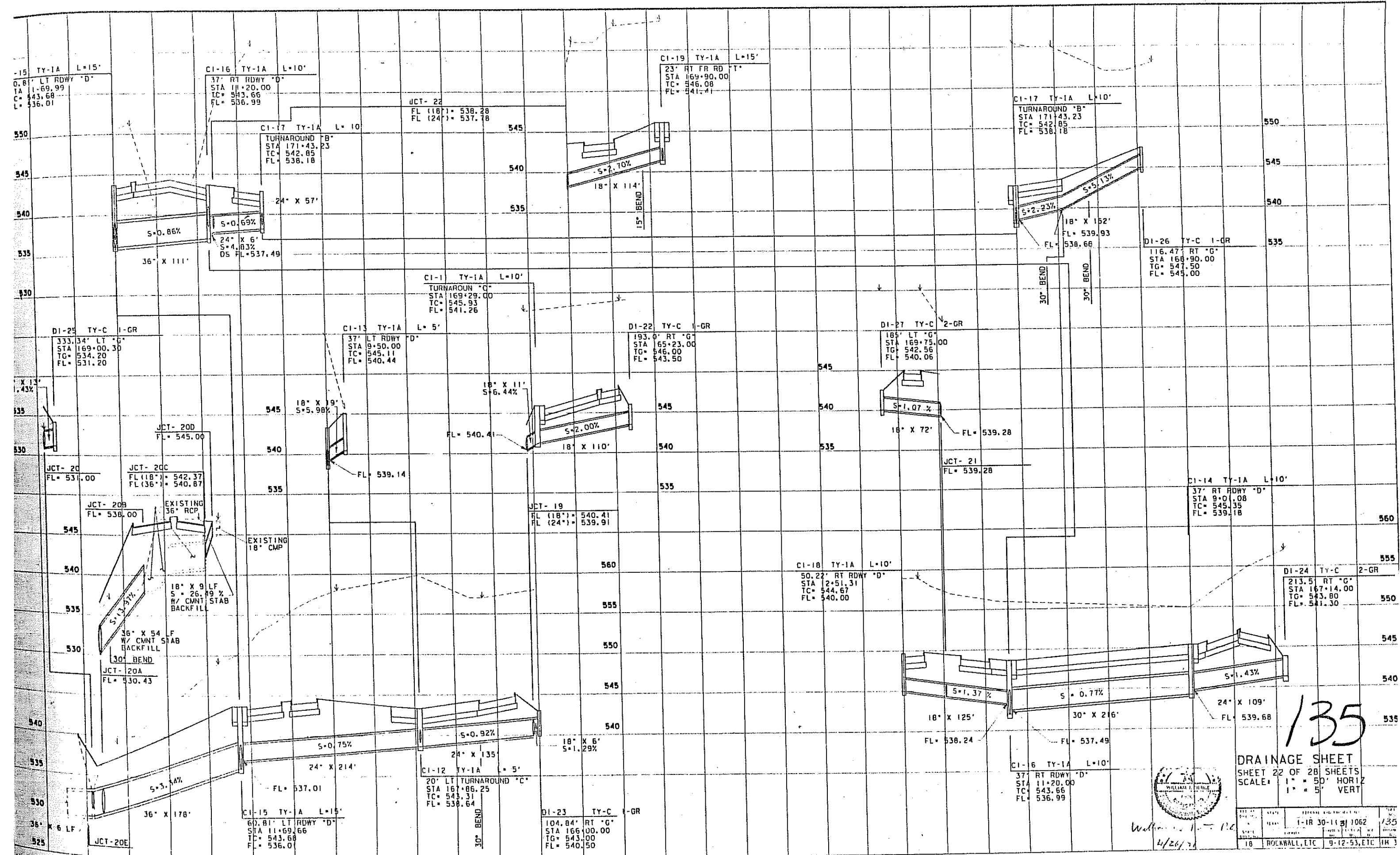


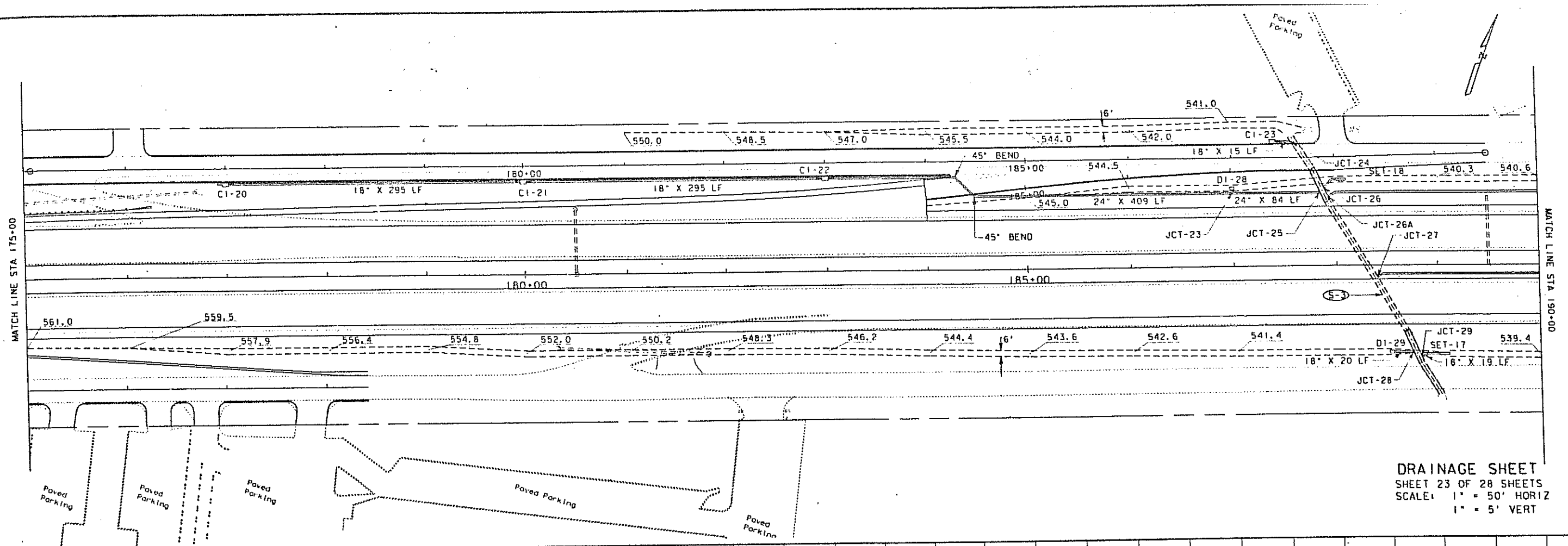
134

DRAINAGE SHEET
SHEET 21 OF 23 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT

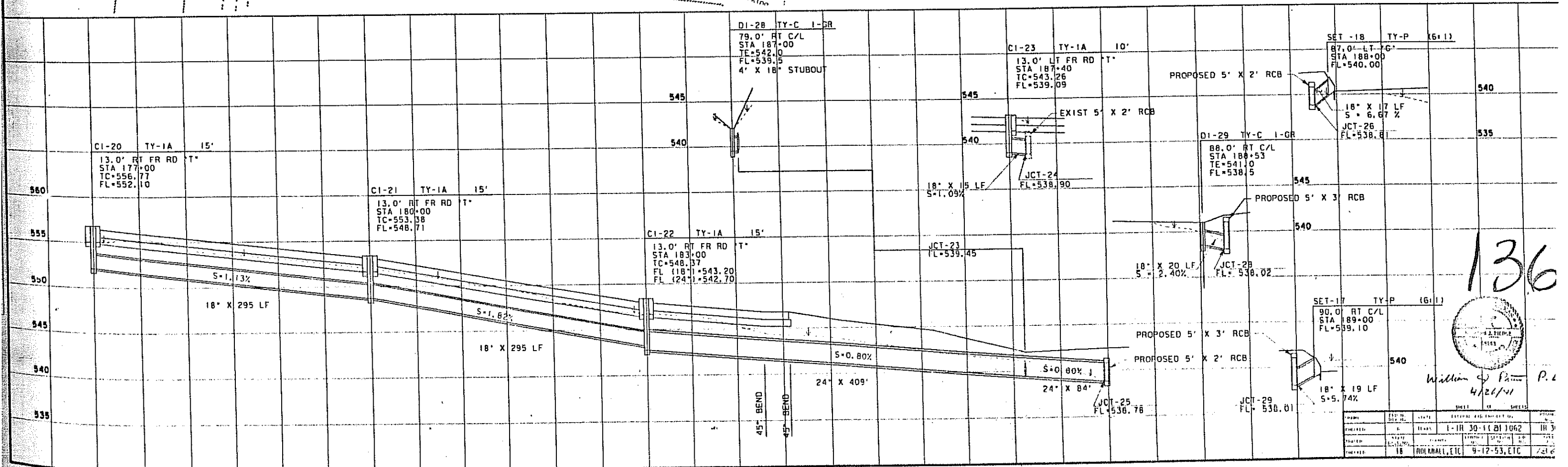


Winkler, S. J. P. RE	11/10/51	1-18 30-11-51 1962	12
4/26/51	10	BULKWALL, ETC	9-12-51, ETC

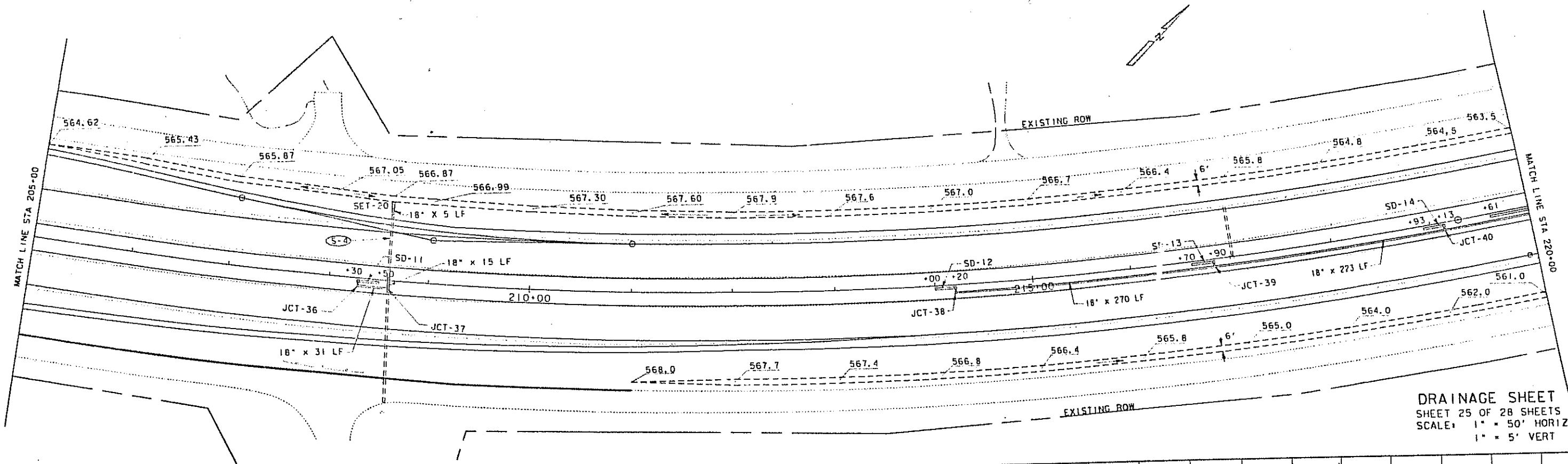




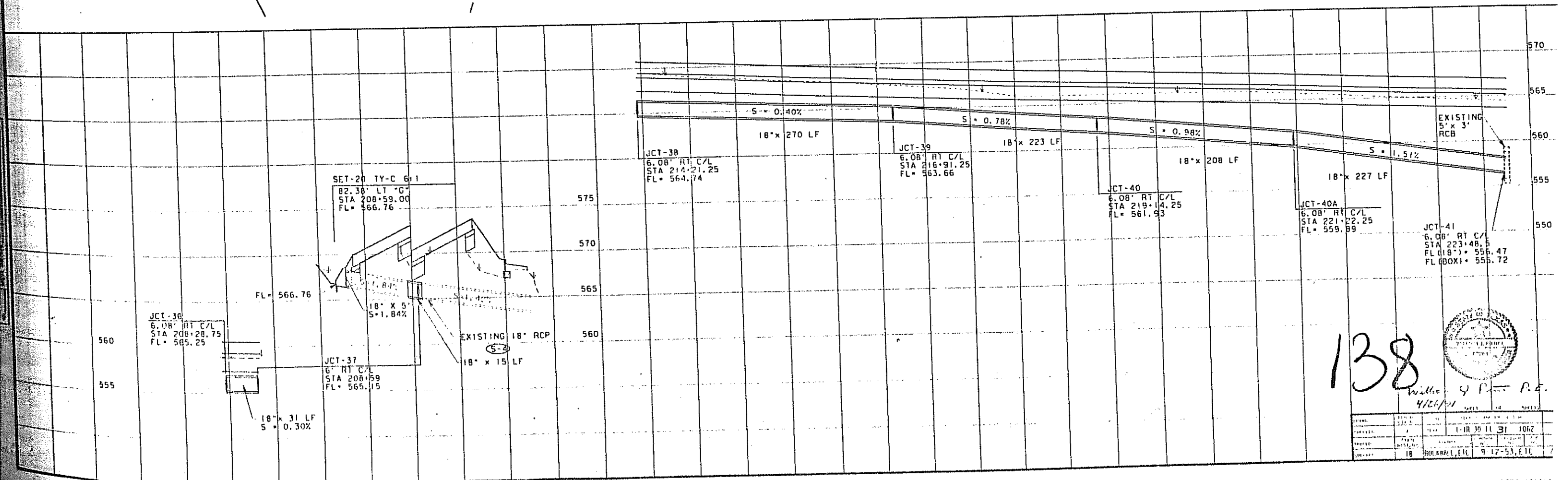
DRAINAGE SHEET
SHEET 23 OF 28 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT



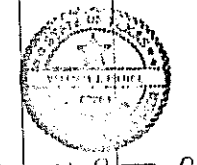
NO.	DATE	BY	CHKD	APPD	REVISION
1	4/21/41	WILLIAM J. PIERCE			



DRAINAGE SHEET
SHEET 25 OF 28 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT

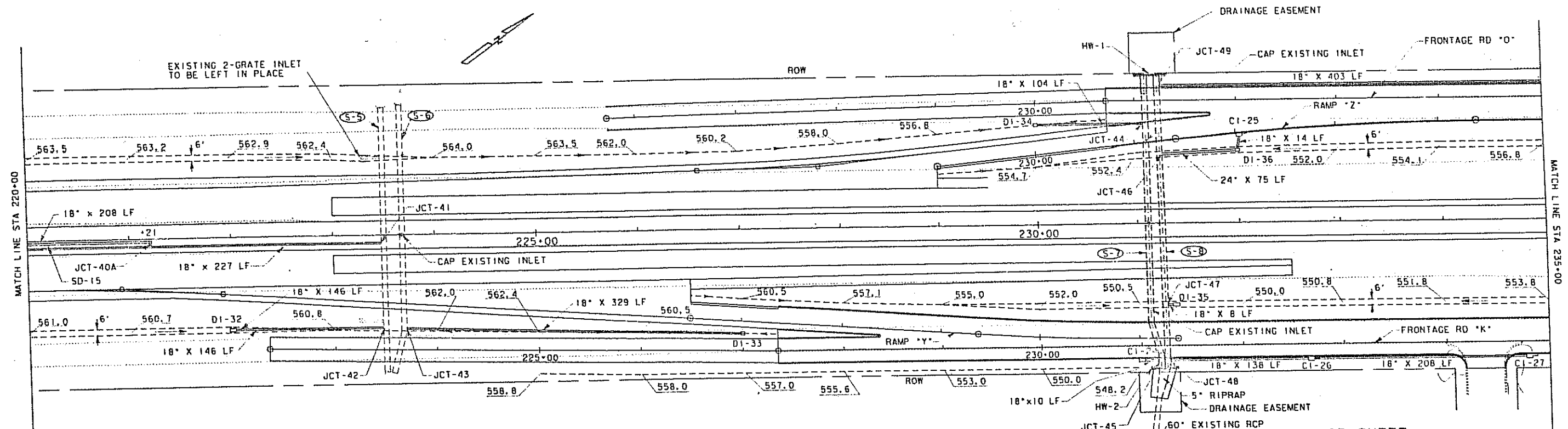


138

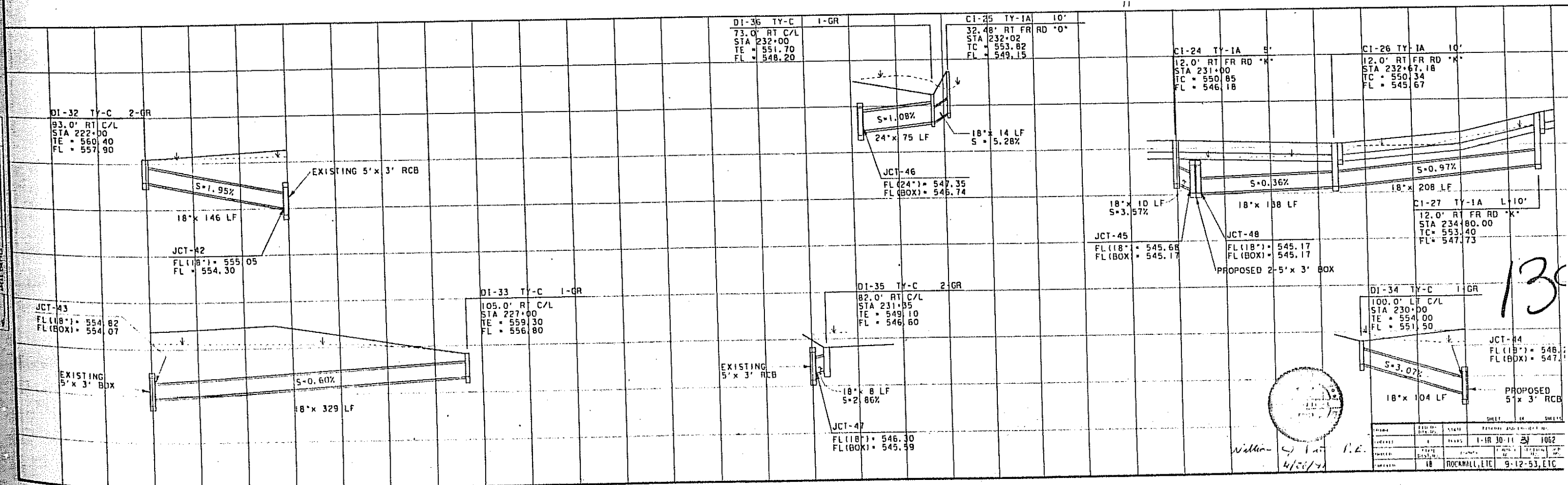


William G. P. R.E.
4/26/01

NO.	DATE	REVISION
1	4/26/01	1.00
2	9-12-53, ETC.	1.00

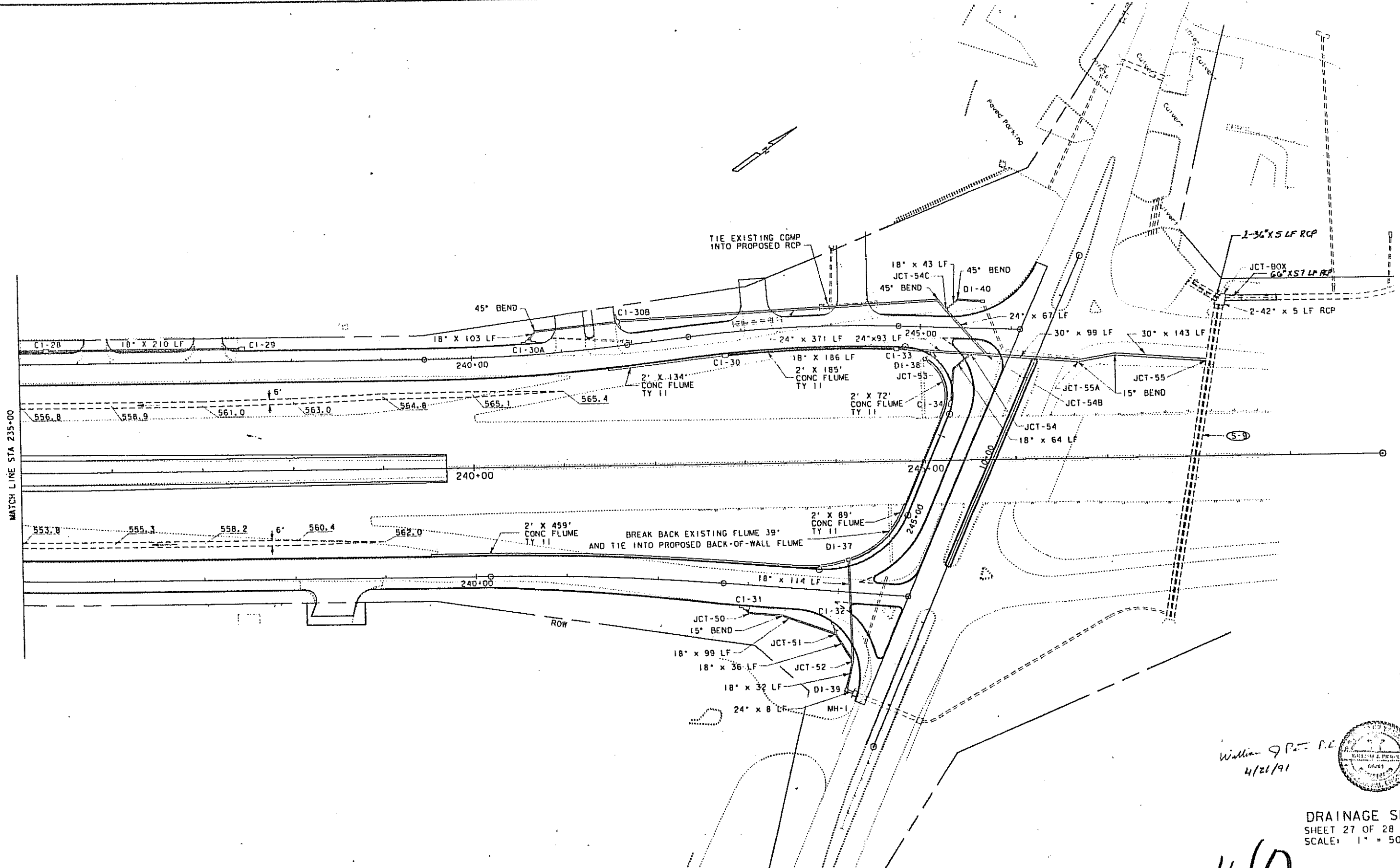


DRAINAGE SHEET
 SHEET 26 OF 28 SHEETS
 SCALE: 1" = 50' HORIZ
 1" = 5' VERT



NO.	DATE	BY	CHKD	APP'D	REVISION
1	10/11/83	J. L. B.			1062
2	10/11/83	J. L. B.			1062
3	10/11/83	J. L. B.			1062
4	10/11/83	J. L. B.			1062
5	10/11/83	J. L. B.			1062
6	10/11/83	J. L. B.			1062
7	10/11/83	J. L. B.			1062
8	10/11/83	J. L. B.			1062
9	10/11/83	J. L. B.			1062
10	10/11/83	J. L. B.			1062

FILE NAME: 1322, 1311



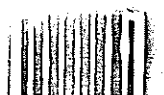
William G. P. P.E.
4/26/91

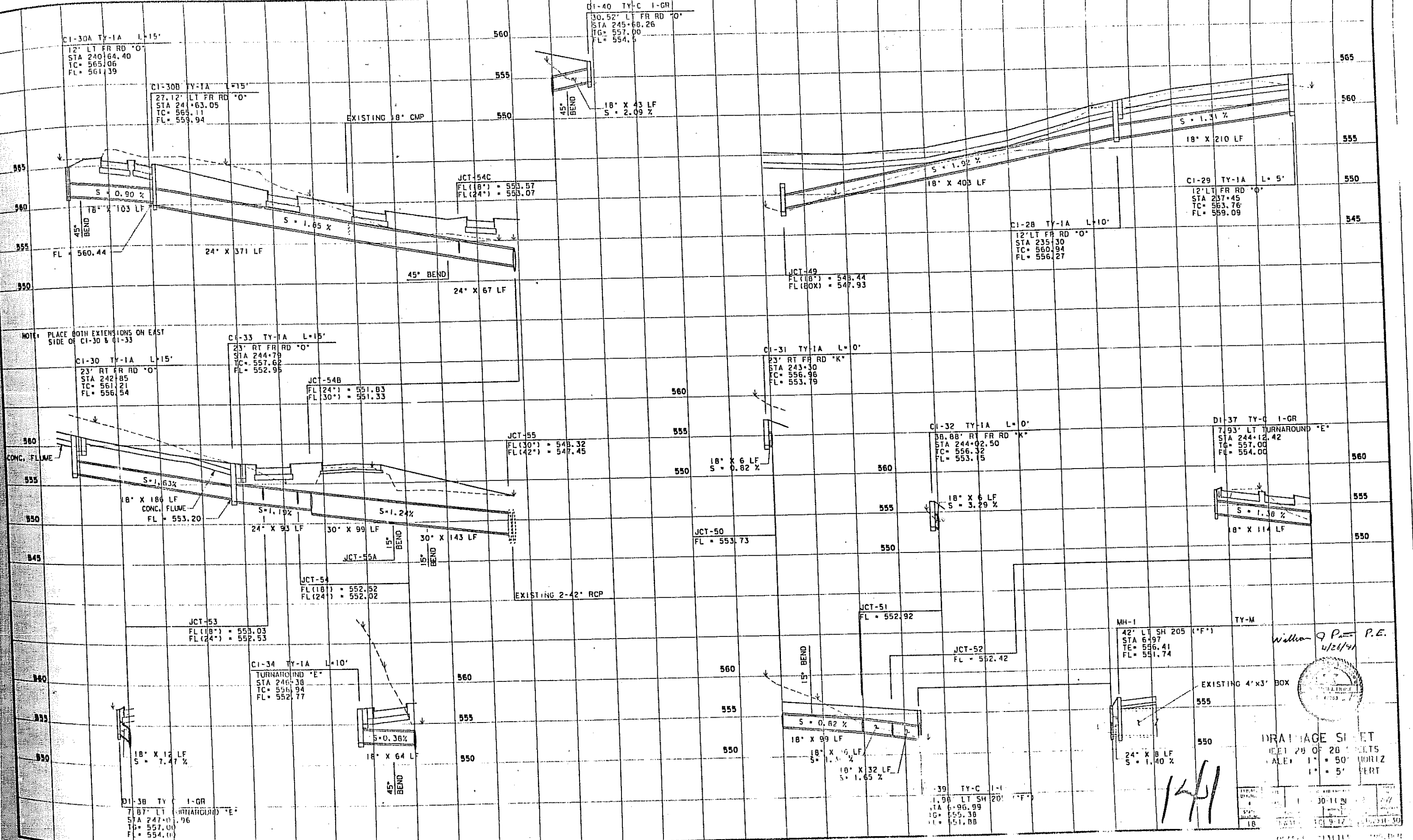


DRAINAGE SHEET
SHEET 27 OF 28 SHEETS
SCALE: 1" = 50' HORIZ

140

NO.	DATE	REVISION	BY	CHKD.
1	1-18-30-11	31	1062	1H
18	ROCKWALL, ETC	9-12-53, ETC.	74	

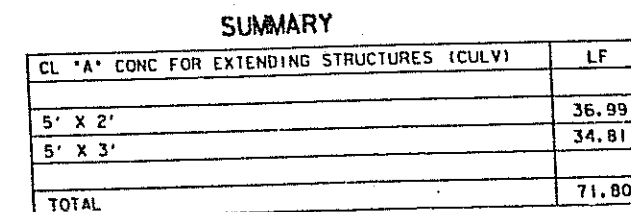




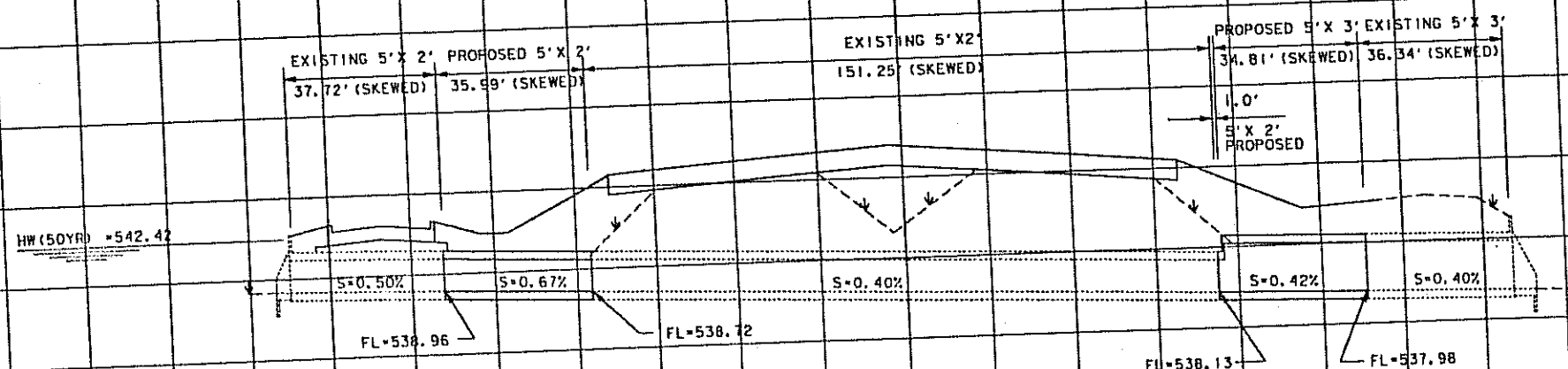
DRAINAGE SHEET
SHEET 28 OF 28 SHEETS
SCALE: 1" = 50' HORIZ
1" = 5' VERT

14/1

DATE: 01-28-01



SCALE : HORIZ 1"=20'
VERT 1"=5'



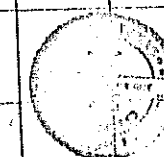
CULVERT CROSS-SECTIONS

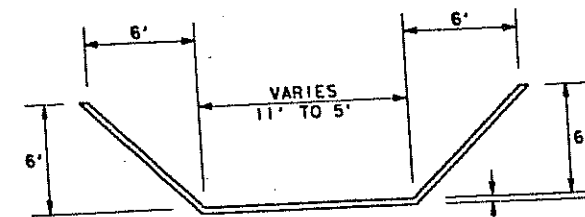
SHEET 1 OF 2 SHEETS

REMOVE DOWNSTREAM HEADWALL ON THE EXISTING 5' X 2' RCB ON THE WESTBOUND FRONTAGE ROAD	
AND REMOVE THE UPSTREAM HEADWALL ON THE EXISTING 5' X 2' RCB ON THE MAINLANES AND ENCLOSE	
WITH A 5' X 2' X 35.99' SC-NA.	

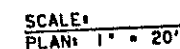
REMOVE THE DOWNSTREAM HEADWALL ON THE EXISTING 5' X 2' RCB ON THE MAINLANES AND	THE UPSTREAM HEADWALL ON THE EXISTING 5' X 3' RCB ON THE EASTBOUND FRONTAGE ROAD
AND ENCLOSE WITH A 5' X 2' X 1' AND A 5' X 3' X 34 81' SC-1A.	

142

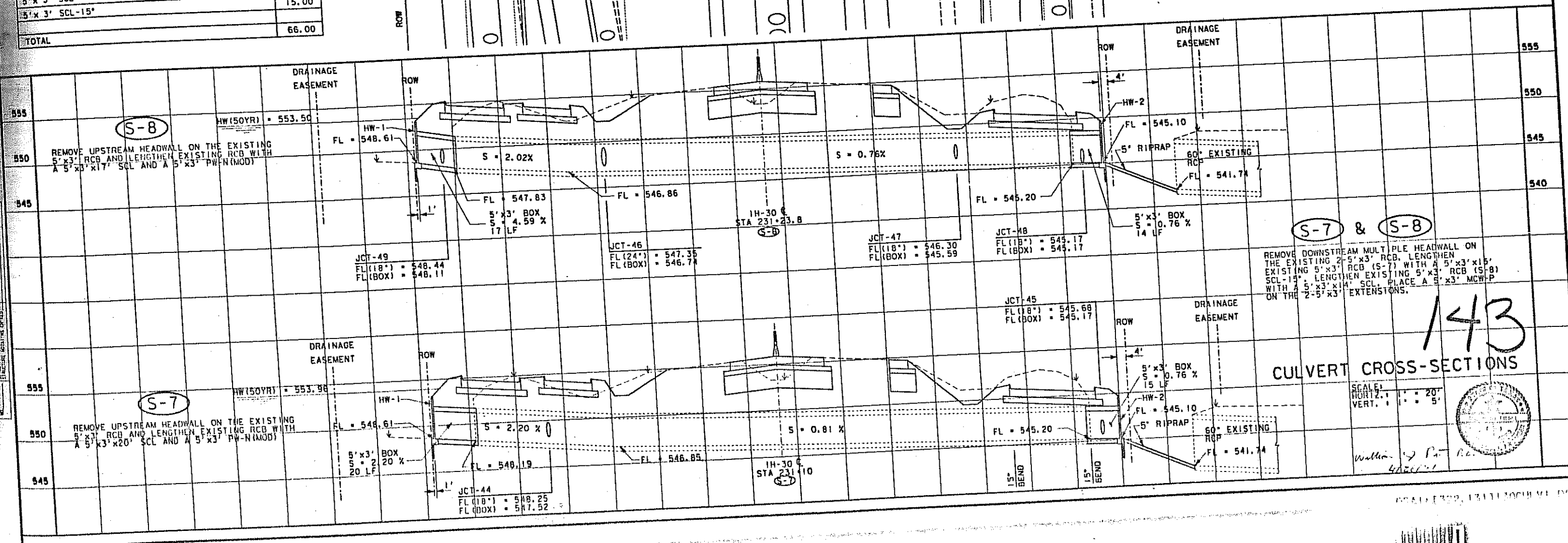




RIPRAP DETAIL



SCL "A" CONC FOR EXTENDING STRUCTURES (CULV)	LF
5' x 3' SCL	51.00
5' x 3' SCL-15'	15.00
TOTAL	66.00

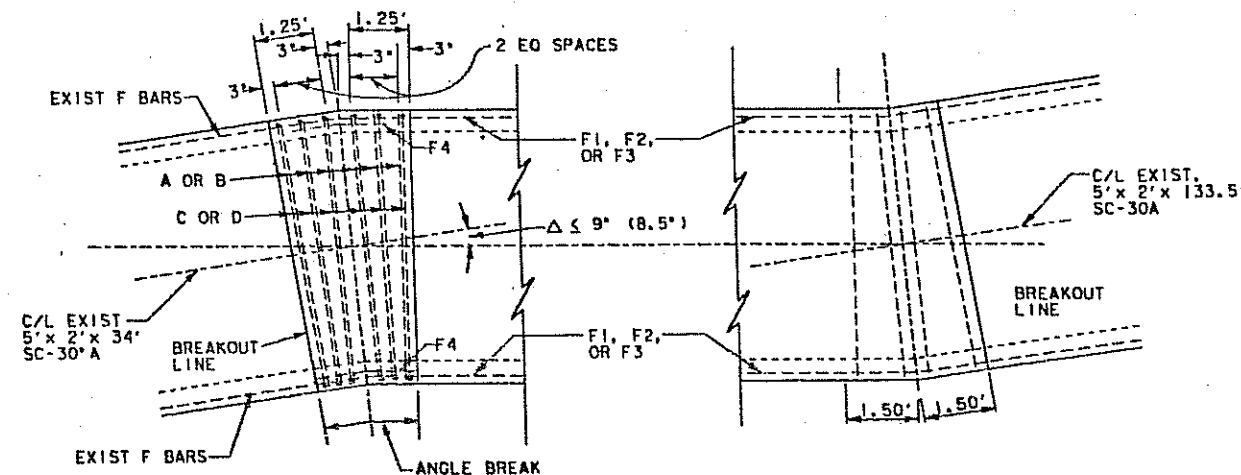
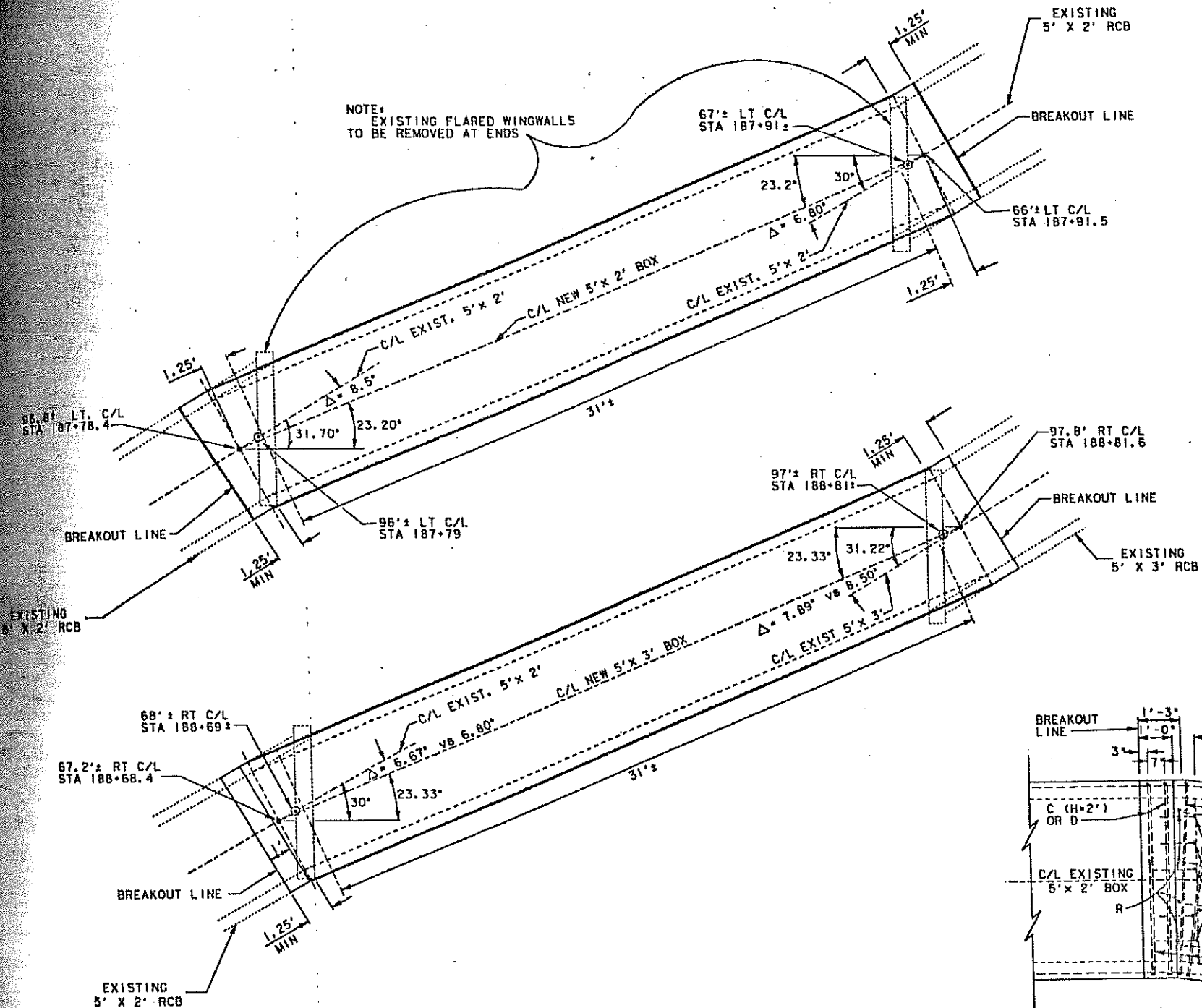


CULVERT CROSS-SECTIONS

SCALE:	
HORIZ.:	1" = 2'
VERT.:	1" = 2'

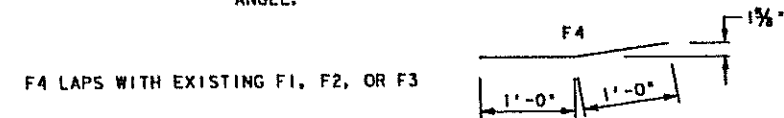
Watkins	J. P.	R.
45	56	1

65-15172-1311-10000-14-000



TYPICAL DETAIL ANGLE BREAK 6° TO 9°
SINGLE BOX CULVERT 5' x 2' OR 5' x 3'

NOTE: STRAIGHTEN AND CLEAN EXISTING BAR F1, F2, AND F3 CUT ON BISECTOR OF ANGLE.

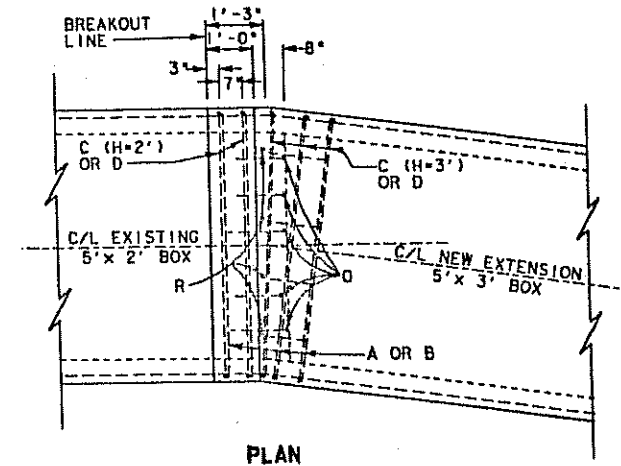


STEEL REQUIRED FOR EACH ANGLE BREAK

BAR	NO	SIZE	LENGTH
A	6	#4	5'-8"
B	6	#4	5'-8"
C	12	#4	4'-10" * 5'-10" **
D	12	#4	4'-1"
F4	20	#4	2'-0"

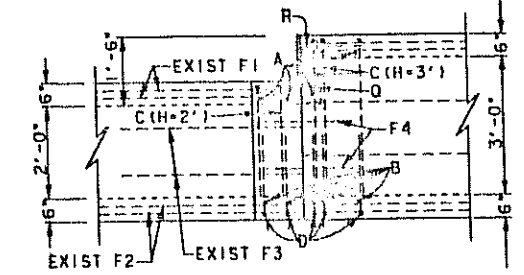
* 5' x 2' BOX ** 5' x 3' BOX
HORIZONTAL LEG C OR D = 2'-6"
SEE SC-30A FOR DETAILS

NOTE: SEE SC-NA FOR DETAILS NOT SHOWN.

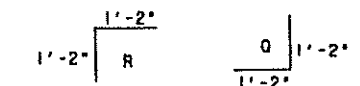
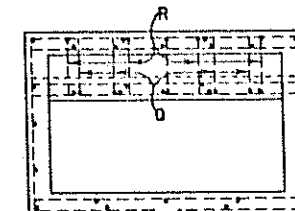


BAR	NO	SIZE	LENGTH
A	5	#4	5'-8"
B	5	#4	5'-8"
C	4	#4	4'-10" (H=2')
C	6	#4	5'-10" (H=3')
F4	11	#4	2'-0"
O	5	#4	2'-4"
R	4	#4	2'-4"
D	10	#4	4'-1"

NOTE: BARS F4 LAP WITH BARS F2 OR F3



TRANSITION FROM 5' x 2' TO 5' x 3'



William J. Lane P.E.
S-3 4/26/91

BOX CULVERT EXTENSIONS AND ANGLE BREAKS

NO.	STATE	TOWN AND PROJECT NO.	DATE
6	TEXAS	1-TH 30-11 311062	TH 30
DATE	DATE	DATE	DATE
18	HOLLYWOOD, ETC.	9-12-51, ETC.	7/97