

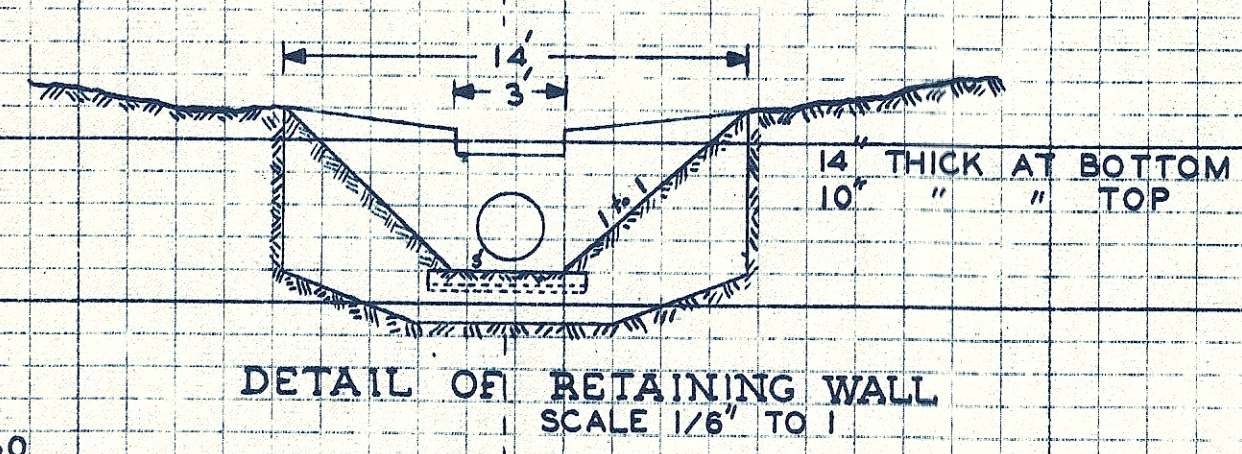
NEW YORK
H. J. L. & S. CO.

MADE IN U.S.A.
100% DRUG FREE
PROF. PLATE 5 X 30
TRADE STANDARD MARK

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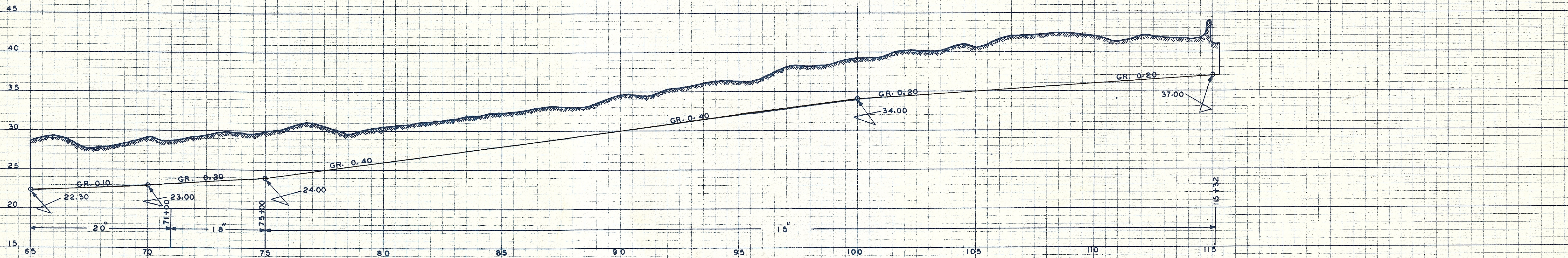
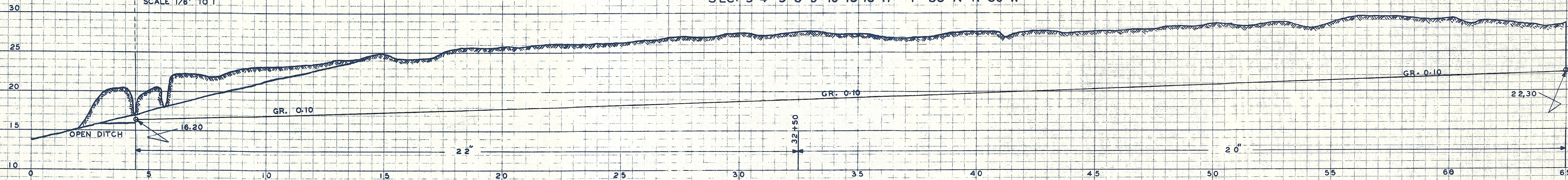


500'
SCALE
500'

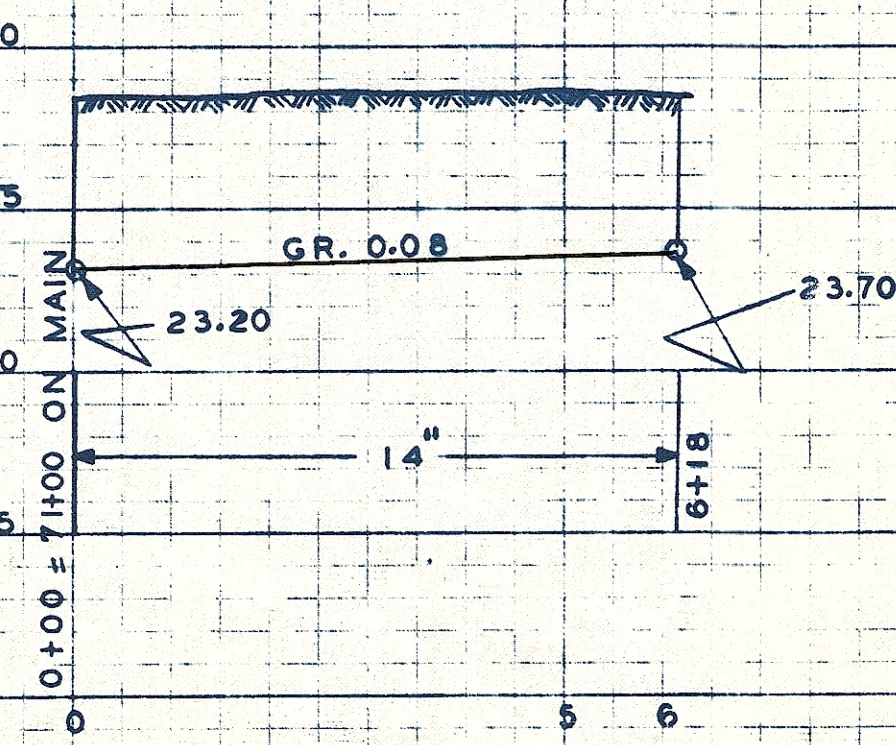
DRAINAGE DISTRICT NO. 11

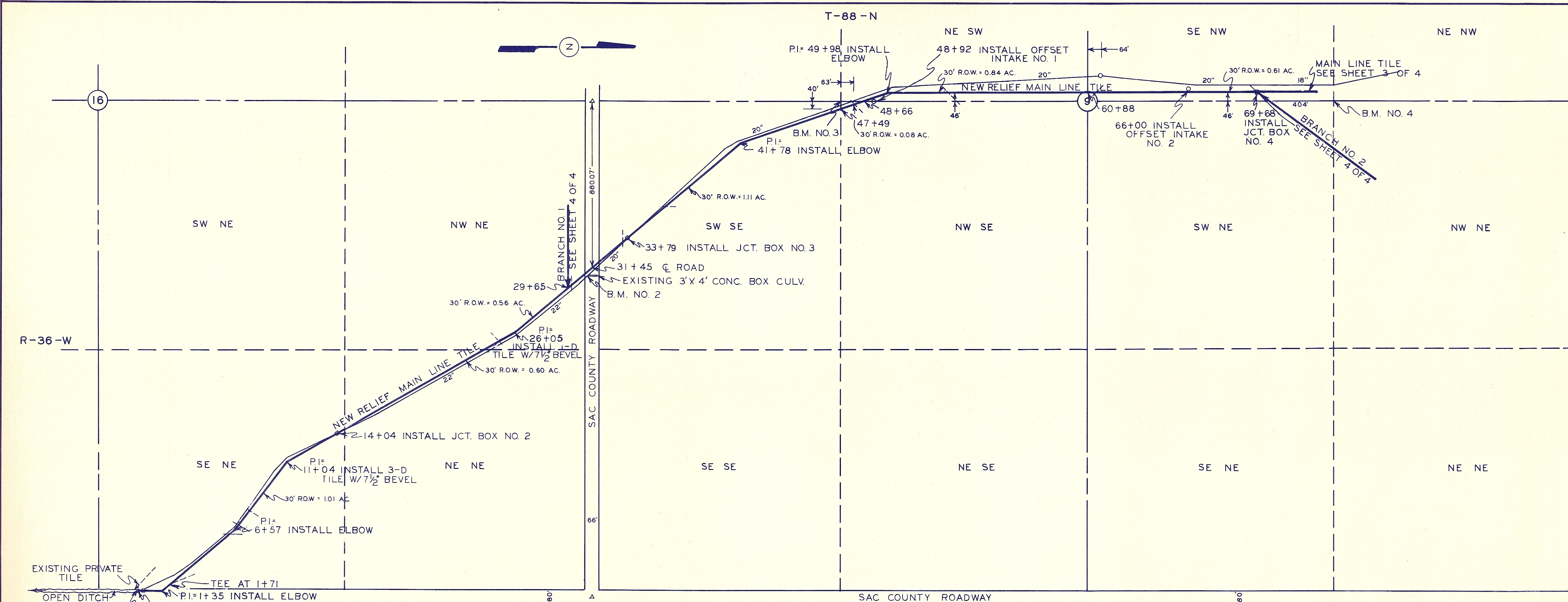
SAC COUNTY, IOWA

SEC. 3-4-5-8-9-10-15-16-17 T-88-N R-36-W



BRANCH "A"





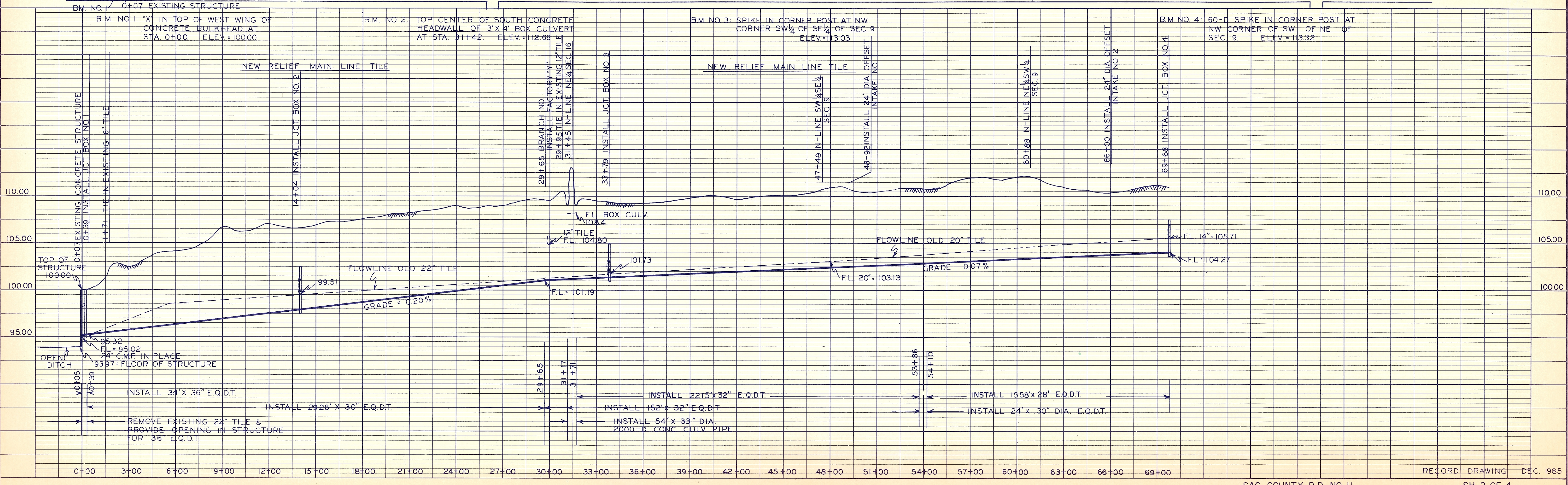
NOTE: CONSTRUCTION R.O.W. SHALL BE 80' IN WIDTH

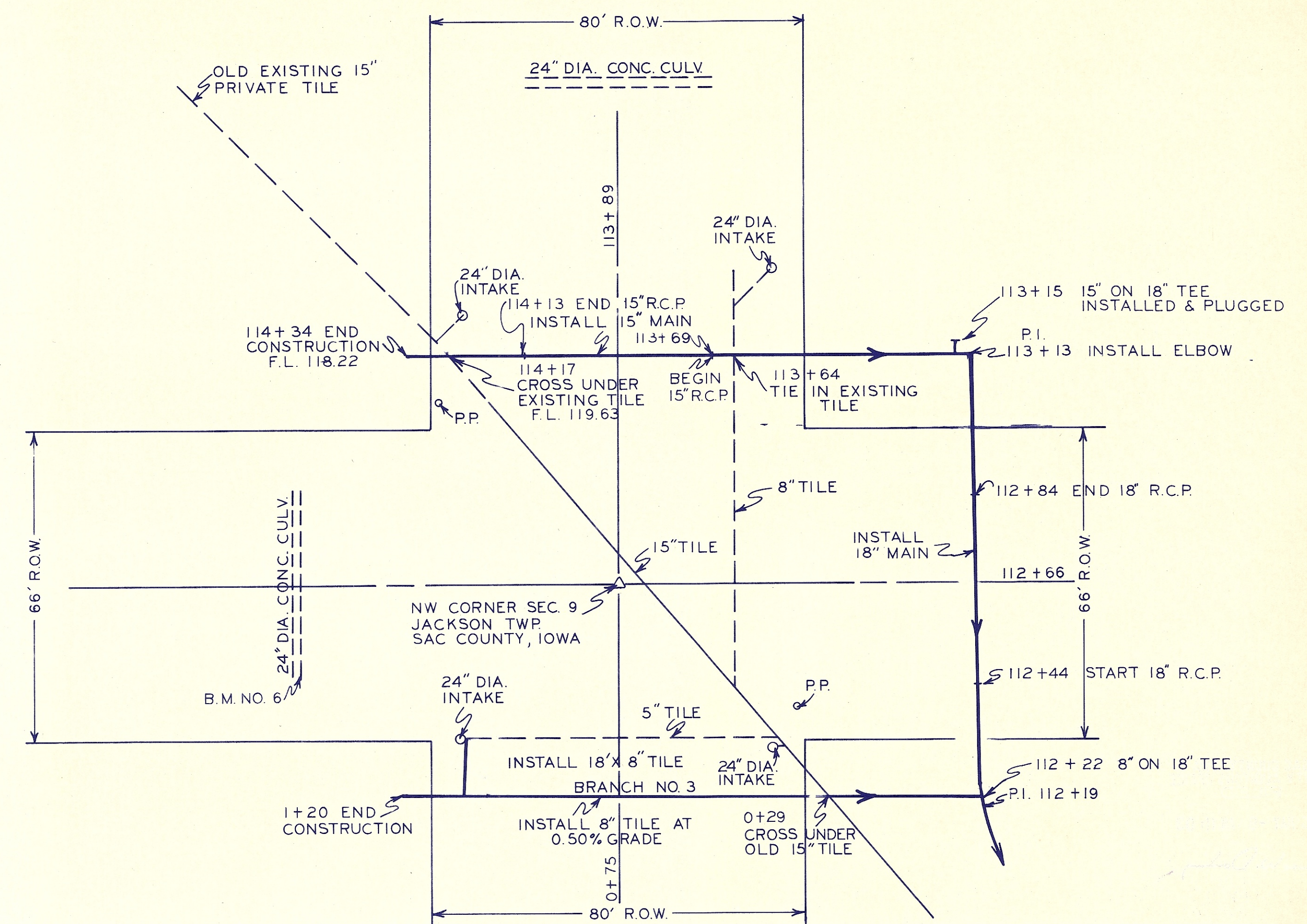
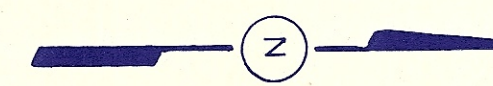
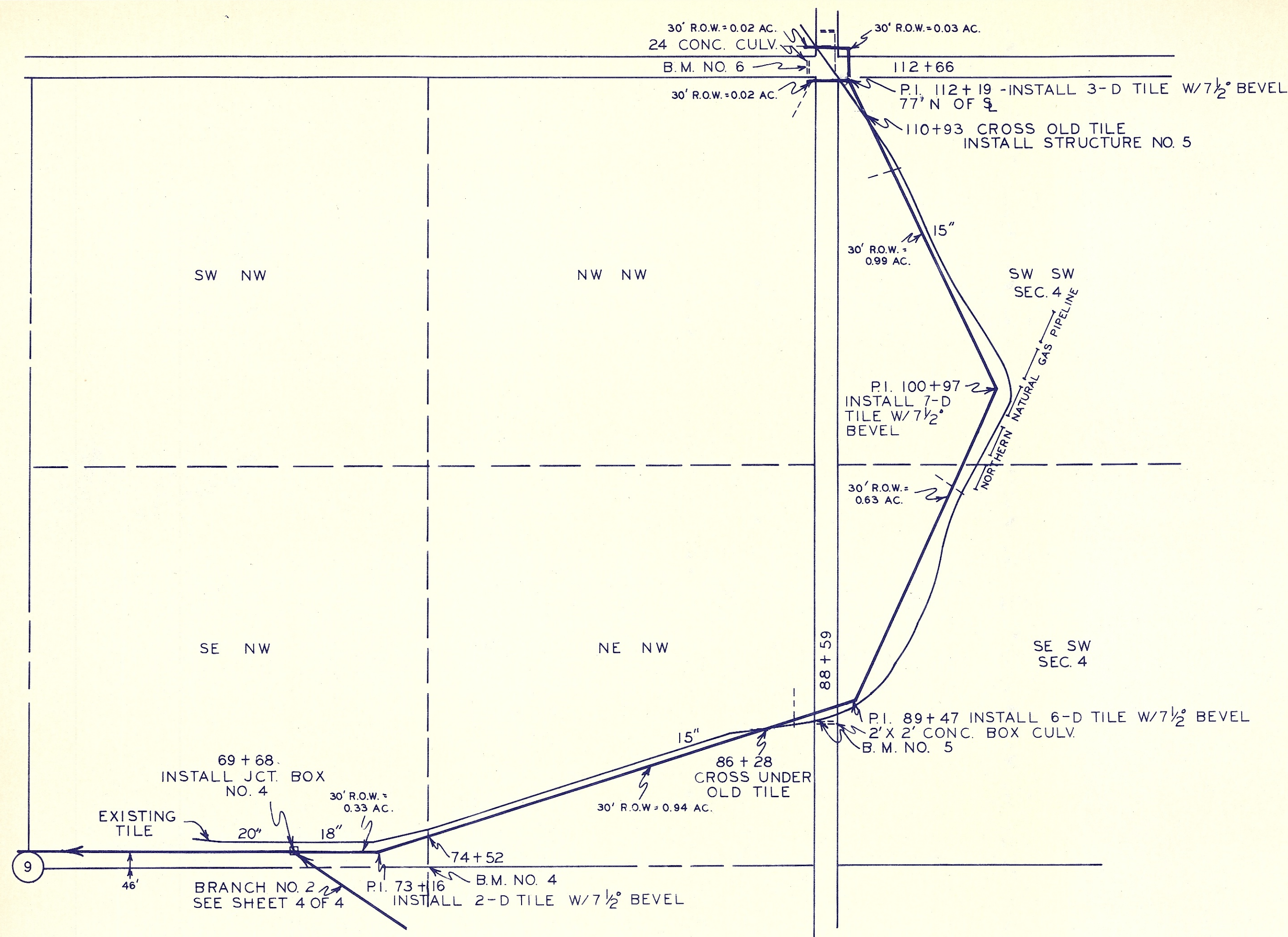
NOTE: MAXIMUM TRENCH WIDTH SHOWN IS MEASURED AT A POINT ONE FOOT ABOVE TOP OF TILE.

MAXIMUM WIDTH = OUTSIDE TILE DIAMETER PLUS 4" EACH SIDE.

NOTE: USE FACTORY TEES TO CONNECT EXISTING TILE INTO NEW TILE LINE.

STA.	SIZE	TILE CROSSED & HOOKED IN			GROUND TO TOP
		SILT	FLOW		
1+71	6"	0	N NW TO S SE		
6+35	6" CLAY	1 1/2	N TO S		3 1/2
6+96	4" CLAY	0	N NE TO S SW		3 1/2
7+85	8" CLAY	0	N NE TO S SW		3 1/2
24+95	6" CLAY	0	SW TO NE		2'
29+95	12" CLAY	0	W TO E		3'
33+44	5" CLAY	1	W TO E		5 1/2
36+15	6" CLAY	3/4	N TO S		3 1/2
47+96	10" CLAY	0	NE TO SW		4 1/2
53+28	4" CLAY	1 1/2	NE TO SW		2 1/2
61+38	5" CLAY	1 1/2	SE TO NW		3'





B.M. NO. 5: TOP SOUTH END CONC. HEADWALL OF 2' X 2' CONC. BOX CULV. AT NORTH LINE NE 1/4 NW 1/4 SEC. 9 ELEV. = 118.97

B.M. NO. 6: TOP EAST END OF 24" CONC. CULV. PIPE 68' SOUTH OF NW CORNER SEC. 9. ELEV. = 124.22

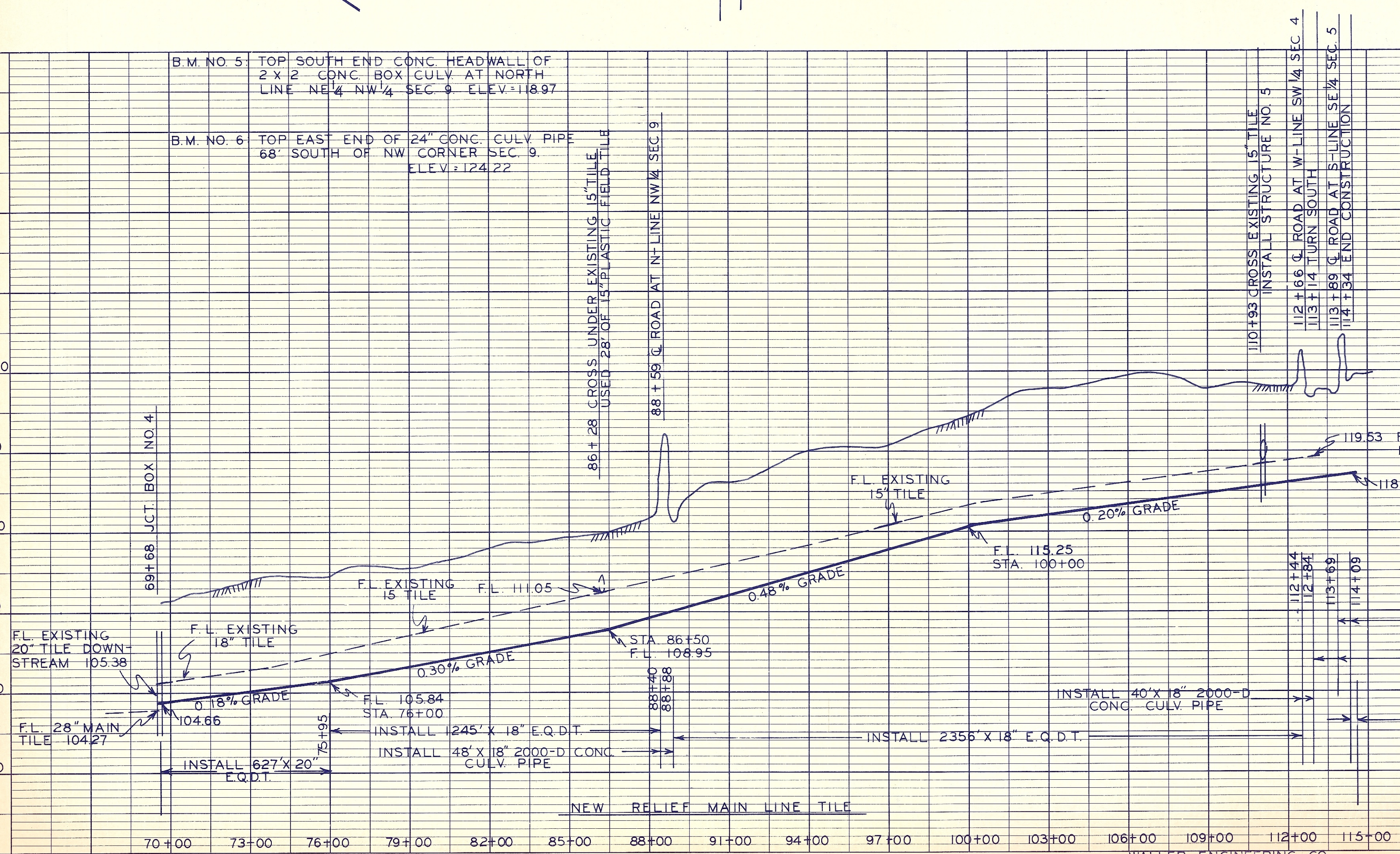
86+28 CROSS UNDER EXISTING 15" TILE USED 28' OF 15" PLASTIC FIELD TILE

88+59 Q. ROAD AT N. LINE NW 1/4 SEC. 9

110+93 CROSS EXISTING 15" TILE INSTALL STRUCTURE NO. 5

112+66 Q. ROAD AT W. LINE SW 1/4 SEC. 4
113+14 TURN SOUTH
113+89 Q. ROAD AT S. LINE SE 1/4 SEC. 5
114+34 END CONSTRUCTION

STA.	SIZE	TILE CROSSED			NOTES
		SILT	FLOW	GROUND TO TOP	
MAIN					
85+28	15" CONC.	0	N TO S	2'	OLD MAIN TIED ACROSS WITH 28' OF 15" PLASTIC TILE
87+28	5" CLAY	2 1/2"	W TO E	2 1/2'	
97+30	5" CLAY	1"	SW TO NE	2'	
109+21	5" CLAY	0	SSE TO N NW	2' 9"	
113+64	8" CONC.	0	W TO E	2'	
114+17	15" CONC.	0	SW TO NE	2'	CROSS UNDER OLD MAIN HOOKED INTO END OF NEW MAIN 1 1/2' WEST OF Q. NEW MAIN
114+34	6" CLAY	4"	S TO N	3'	
BR. NO. 3					
1+15	6" CLAY	1"	E SE TO W NW	3'	



WALLER ENGINEERING CO.
IDA GROVE, IOWA 51445

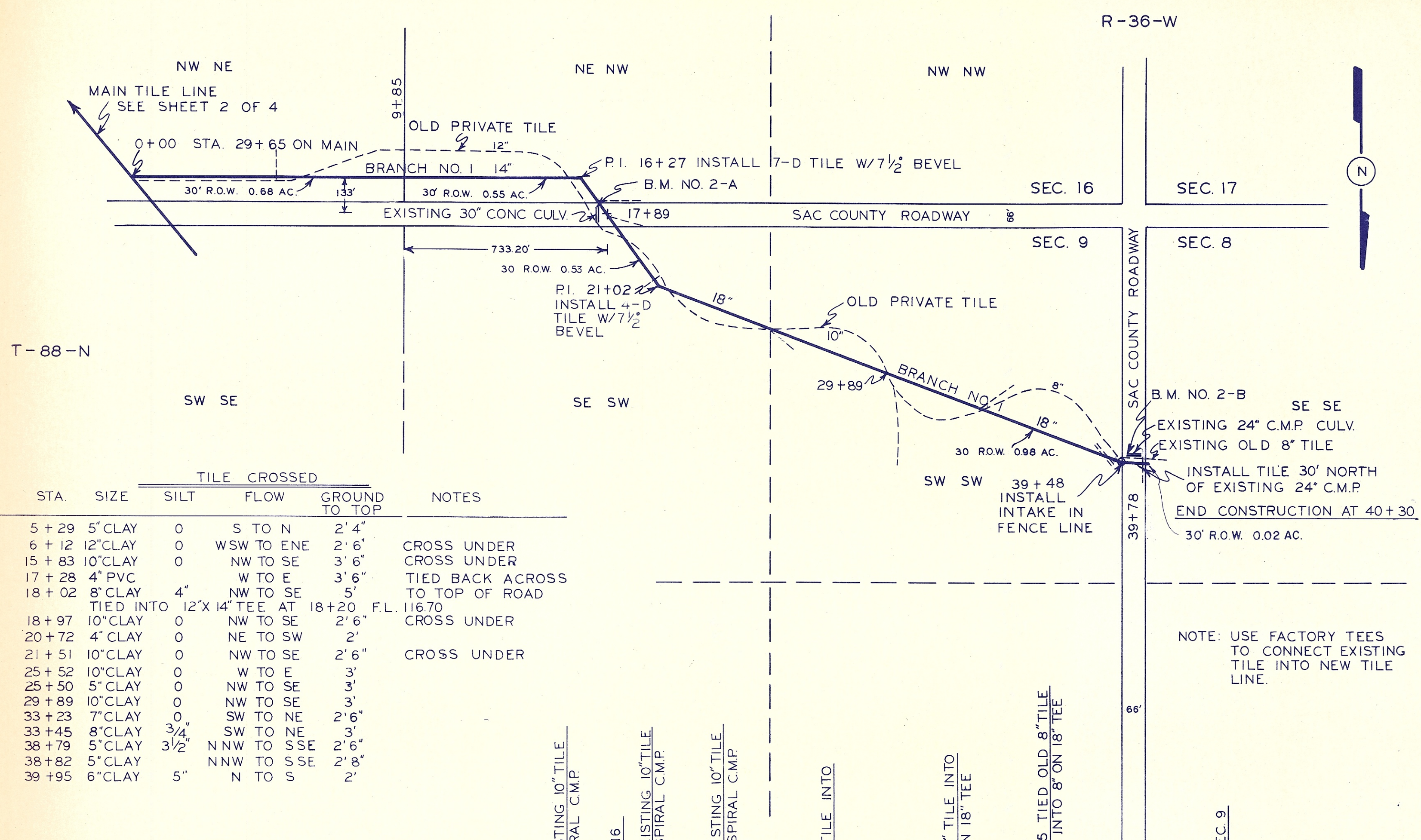
PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

SAC COUNTY D.D. NO. 11

SH. 3 OF 4

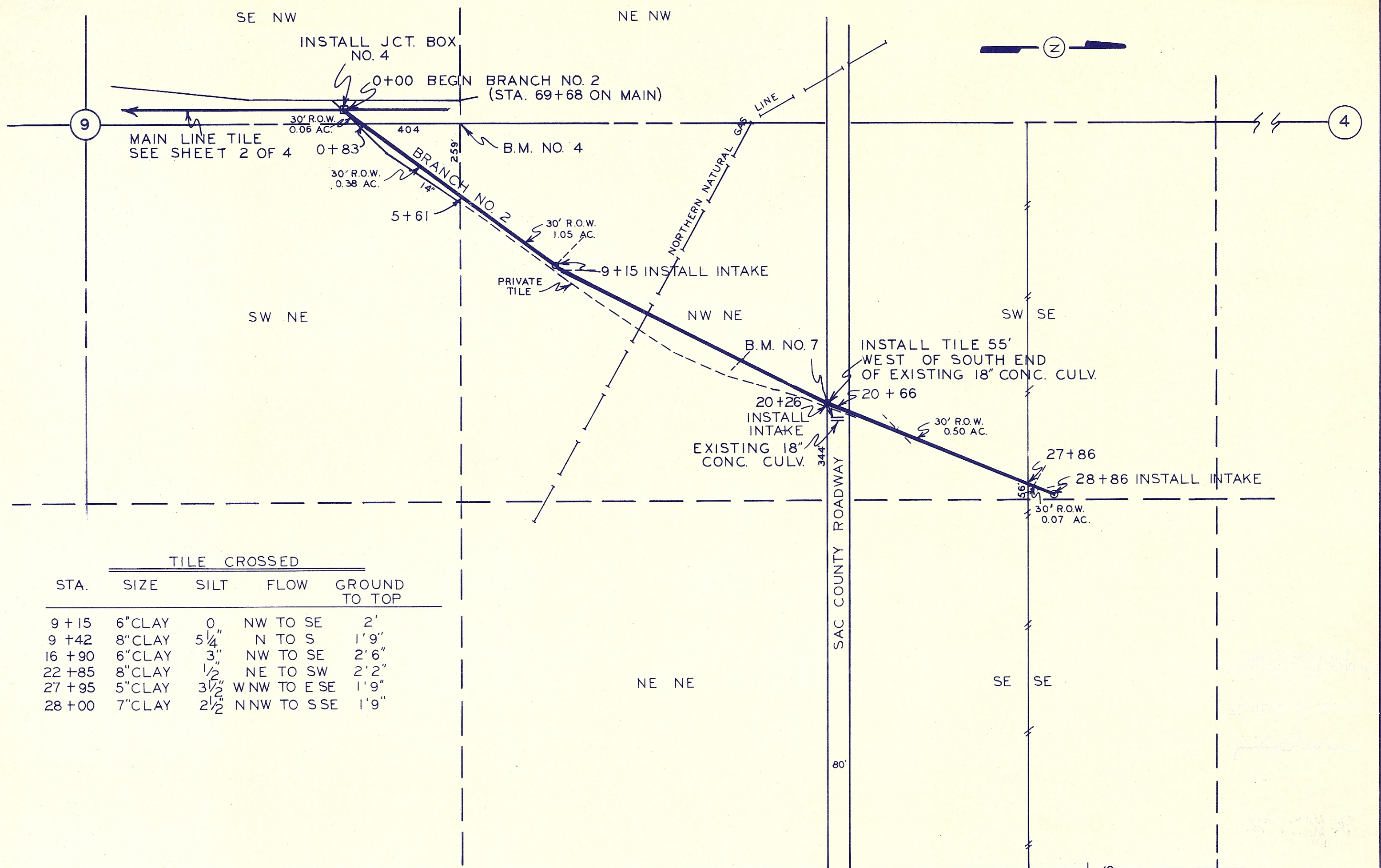
DD 11 SAC

RECORD DRAWING DEC 1985



STA.	SIZE	TILE	CROSSED	NOTES
5+29	5" CLAY	0	S TO N	2' 4"
6+12	12" CLAY	0	WSW TO ENE	2' 6"
15+83	10" CLAY	0	NW TO SE	3' 6"
17+28	4" PVC	0	W TO E	3' 6"
18+02	8" CLAY	4"	NW TO SE	5'
18+97	10" CLAY	0	NW TO SE	2' 6"
20+72	4" CLAY	0	NE TO SW	2'
21+51	10" CLAY	0	NW TO SE	2' 6"
25+52	10" CLAY	0	W TO E	3'
25+50	5" CLAY	0	NW TO SE	3'
29+89	10" CLAY	0	NW TO SE	3'
33+23	7" CLAY	0	SW TO NE	2' 6"
33+45	8" CLAY	3/4"	SW TO NE	3'
38+79	5" CLAY	3/2"	NNW TO SSE	2' 6"
38+82	5" CLAY	0	NNW TO SSE	2' 8"
39+95	6" CLAY	5"	N TO S	2'

NOTE: USE FACTORY TEES TO CONNECT EXISTING TILE INTO NEW TILE LINE.



STA.	SIZE	TILE	CROSSED	NOTES
9+15	6" CLAY	0	NW TO SE	2'
9+42	8" CLAY	5/4"	N TO S	1' 9"
16+90	6" CLAY	3"	NW TO SE	2' 6"
22+85	8" CLAY	1 1/2"	NE TO SW	2' 2"
27+95	5" CLAY	3 1/2"	WNW TO ESE	1' 9"
28+00	7" CLAY	2 1/2"	NNW TO SSE	1' 9"

