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WATER SYSTEM IMPROVEMENTS

FOR

HARRIMAN , TENNESSEE

CONTRACT I 500,000 GALLON GROUND LEVEL
WATER STORAGE TANK

CONTRACT II WATER TRANSMISSION LINES

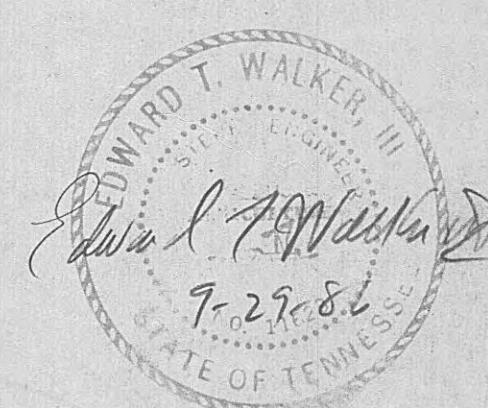
SEPTEMBER, 1986

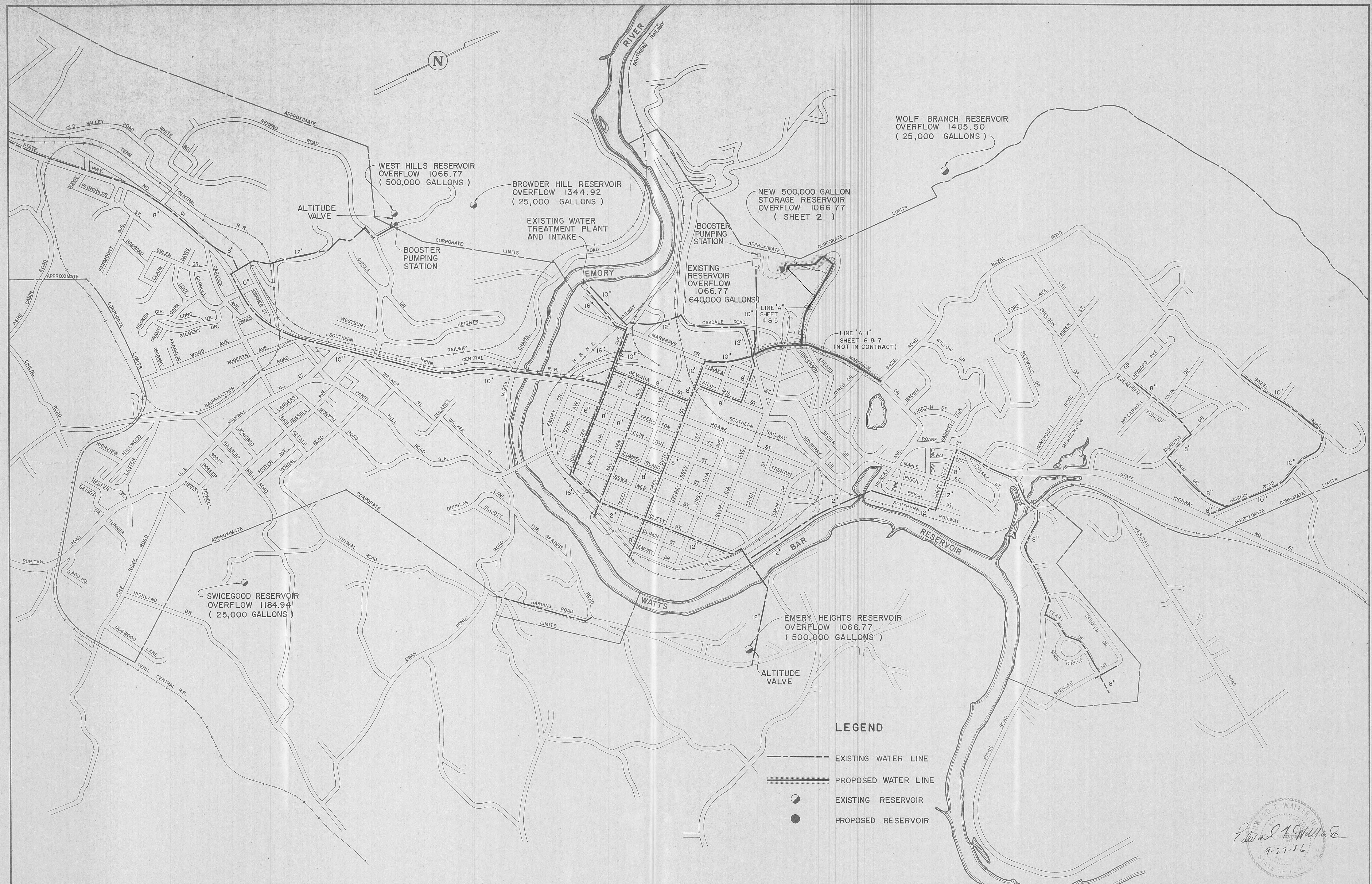
CDBG PROJECT NO. Z-31265

JOB NO. 86-09

WHITE - TAYLOR - WALKER , INC.
BRENTWOOD , TENNESSEE

SET NO. 1





WHITE - TAYLOR - WALKER, INC.

NASHVILLE, TENNESSEE

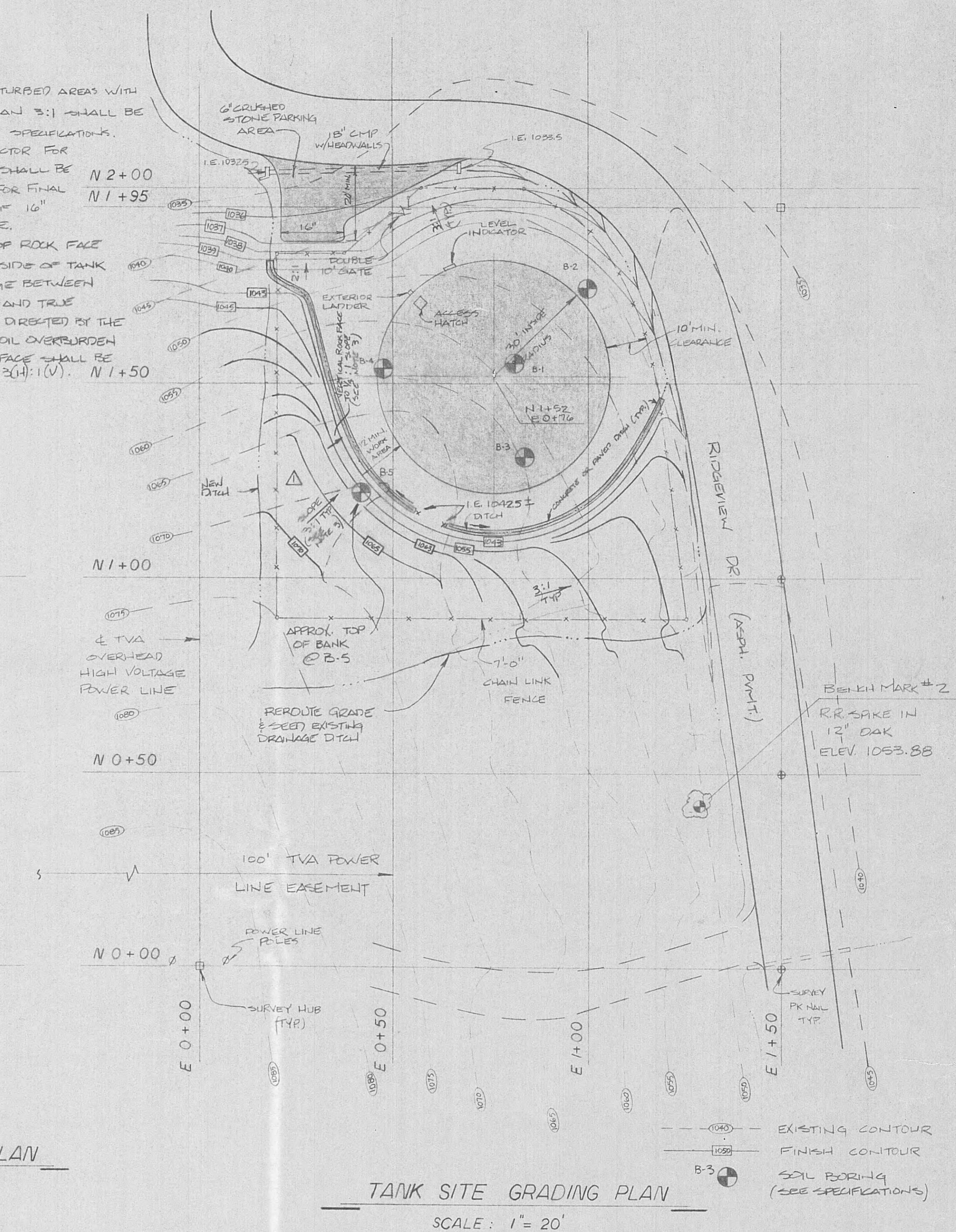
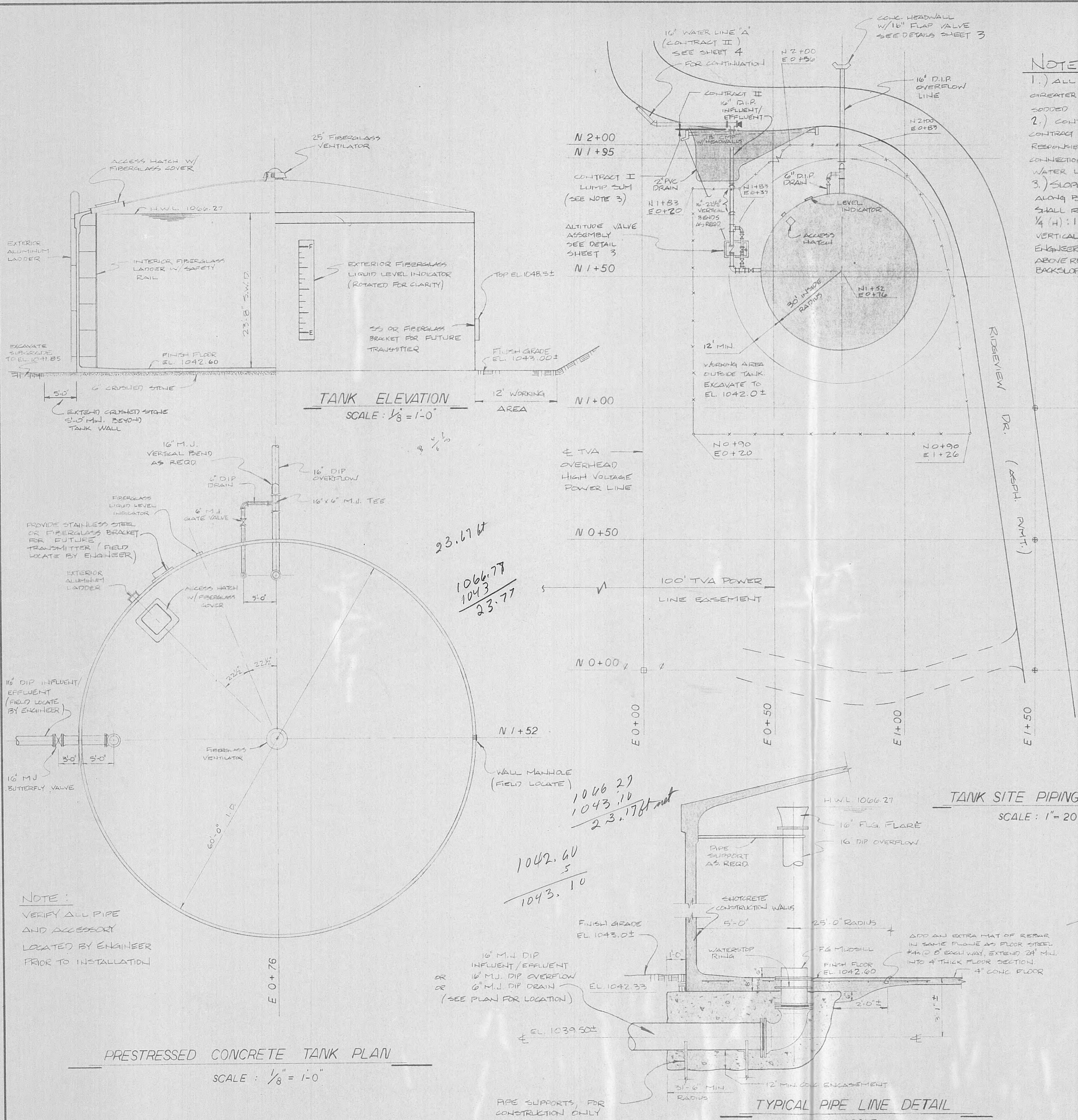
REVISION	DATE

**WATER SYSTEM IMPROVEMENTS
CONTRACTS I & II**

KEY MAP

HARRIMAN, TENNESSEE

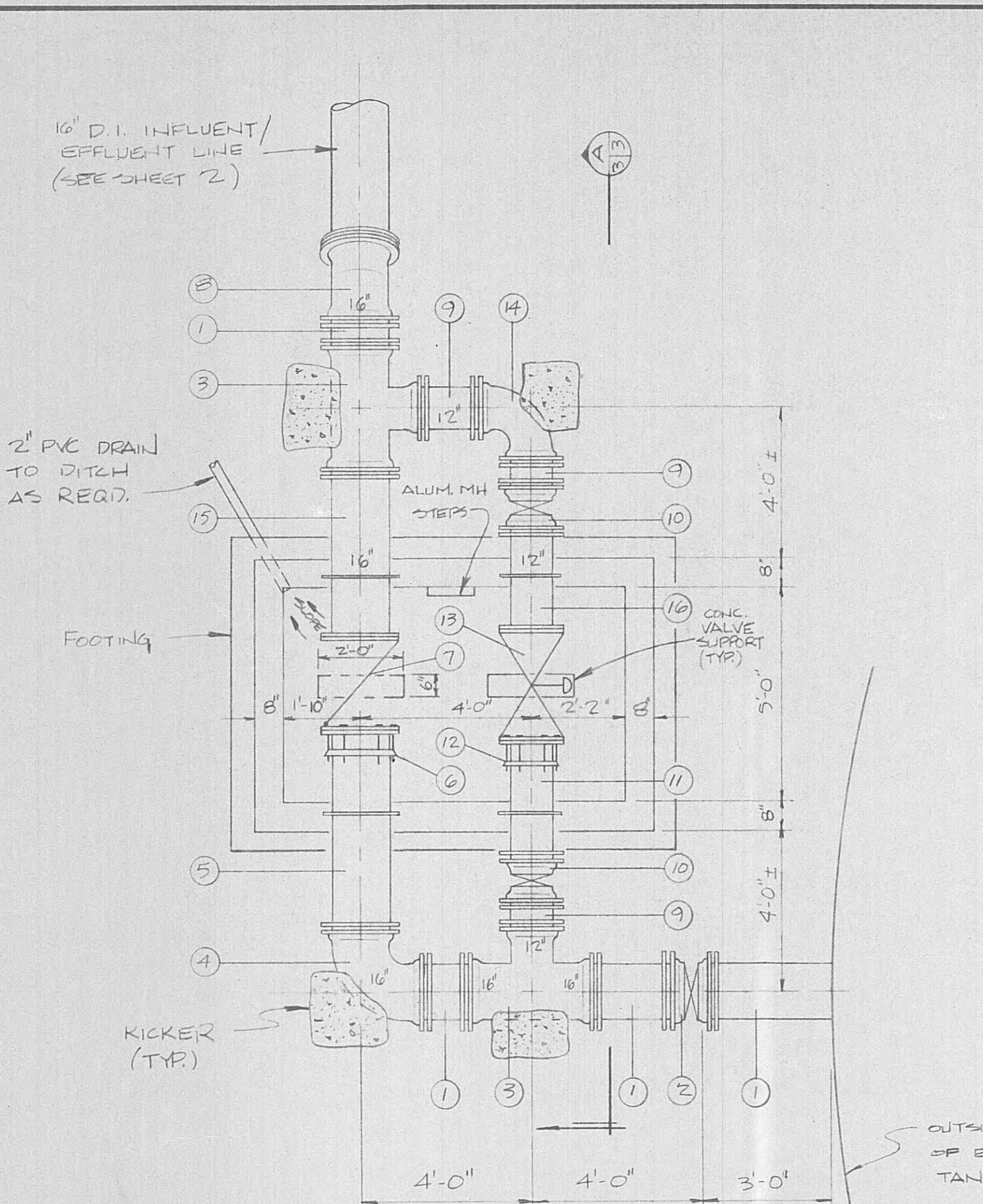
SHEET
OF
8



V

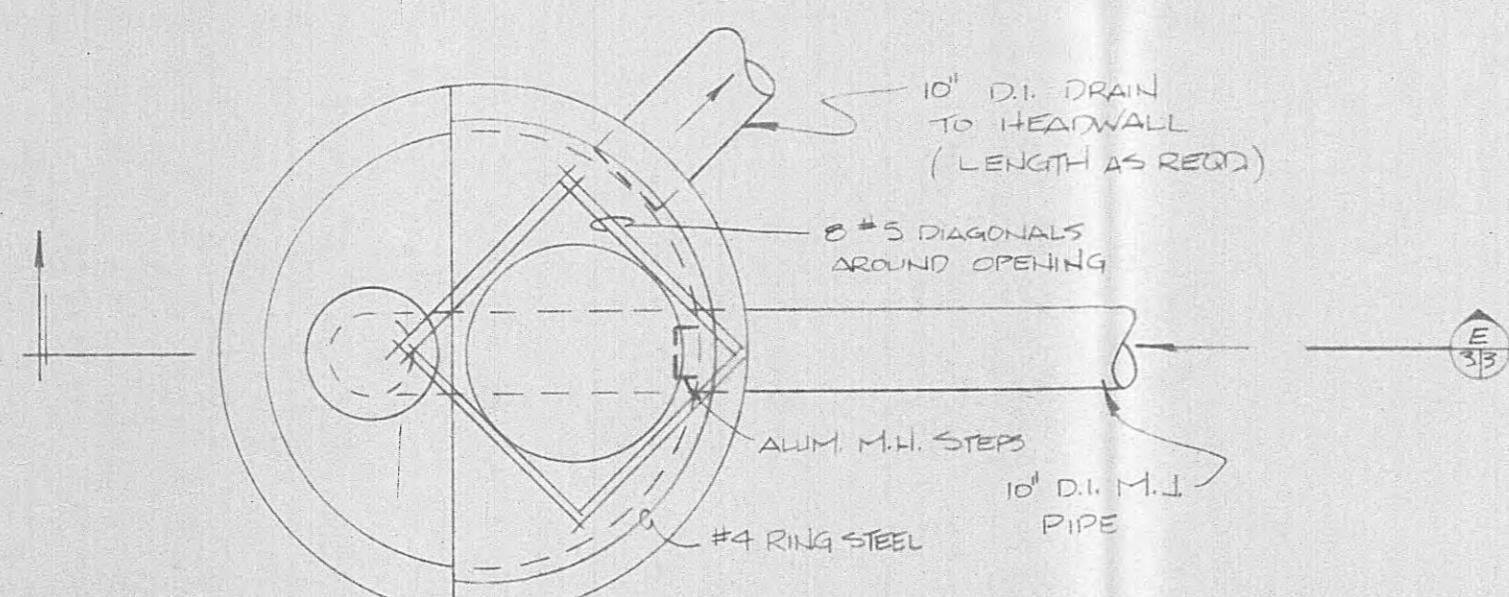
WHITE - TAYLOR - WALKER, INC.

NASHVILLE, TENNESSEE



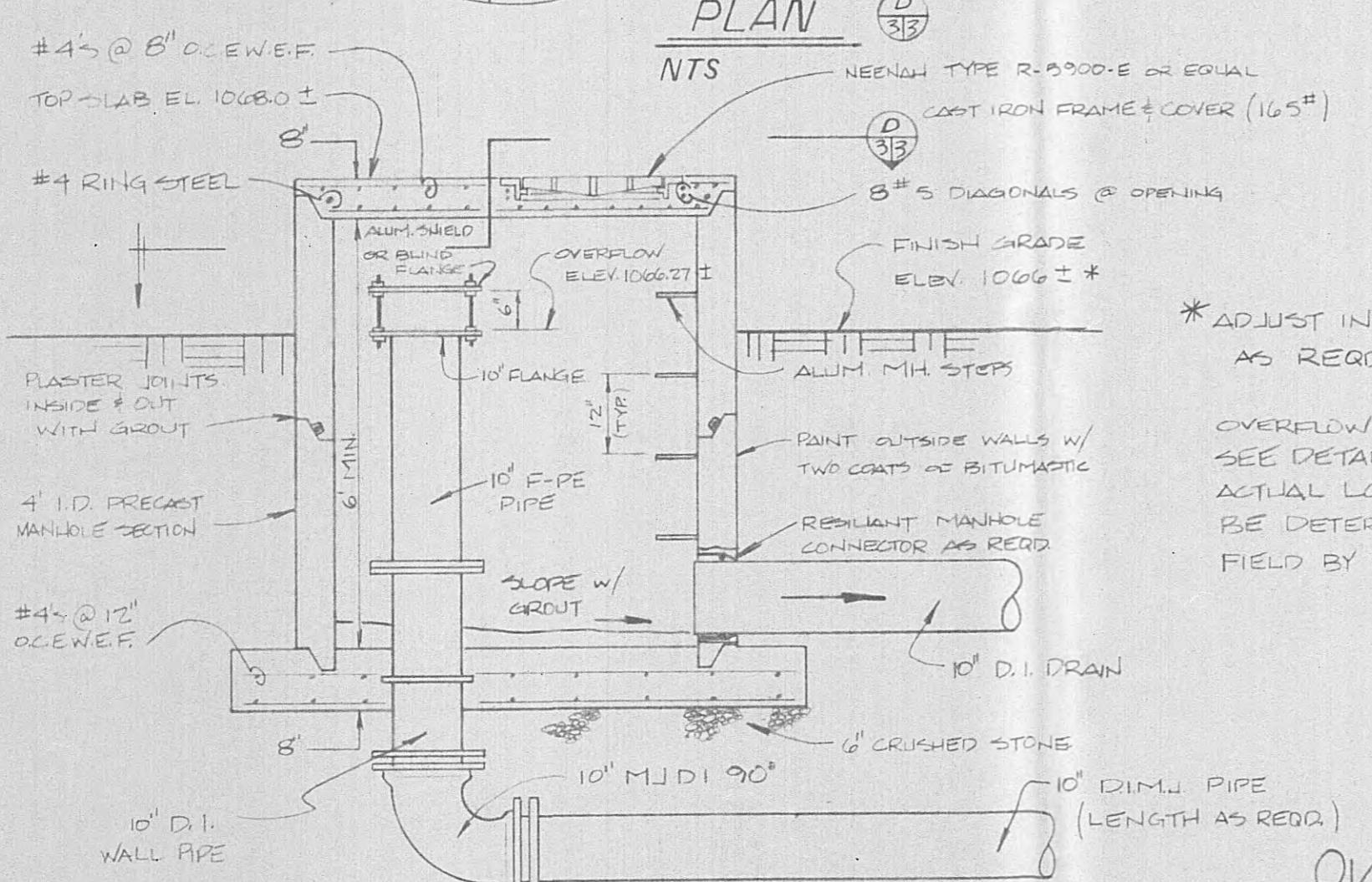
ALTITUDE VALVE INSTALLATION - PLAN

SCALE $\frac{3}{8}$ "



DROP HANDLE DETAIL

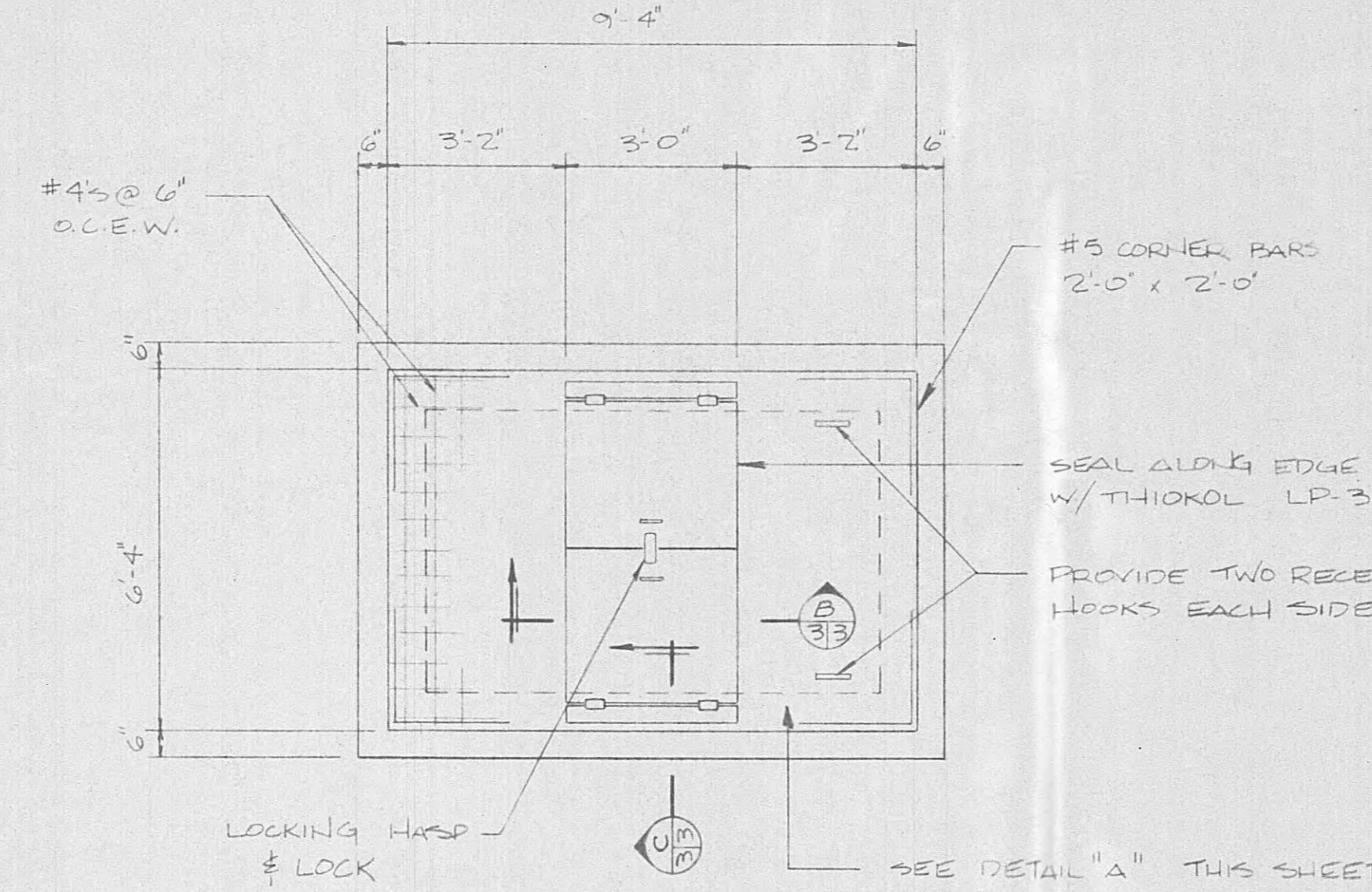
NO SCALE



OVERFLOW INSTALLATION AT EXISTING 0.64 MG RESERVOIR

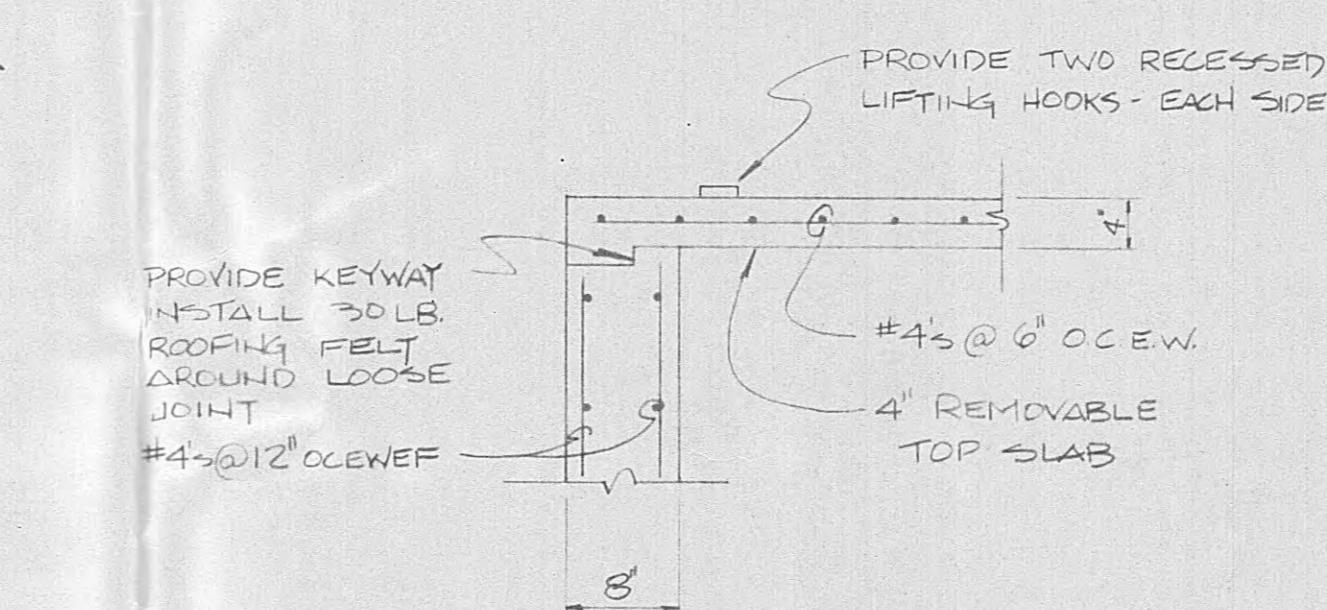
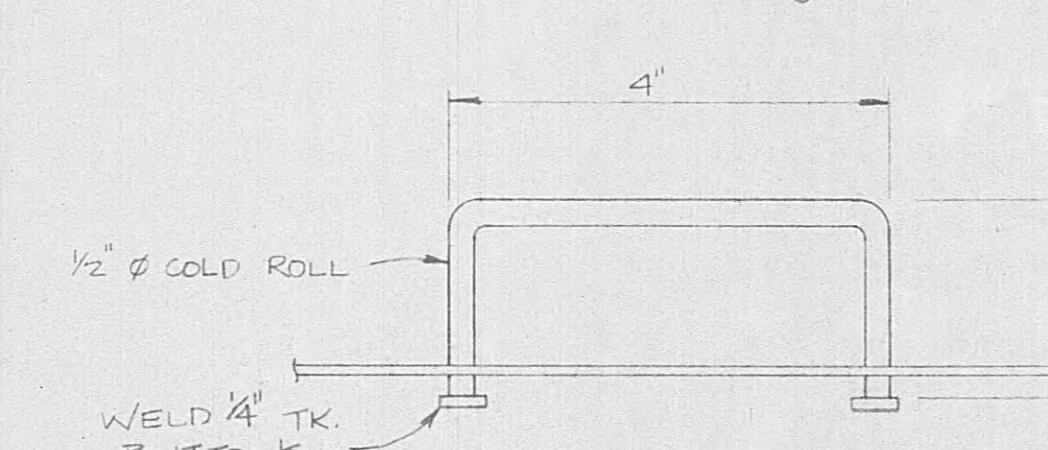
NOTE

1. SEE SHEET 2 FOR ORIENTATION OF ALTITUDE VALVE ASSEMBLY.
 2. PAINT EXTERIOR WALLS OF VALVE PIT WITH TWO COATS OF BITUMASTIC



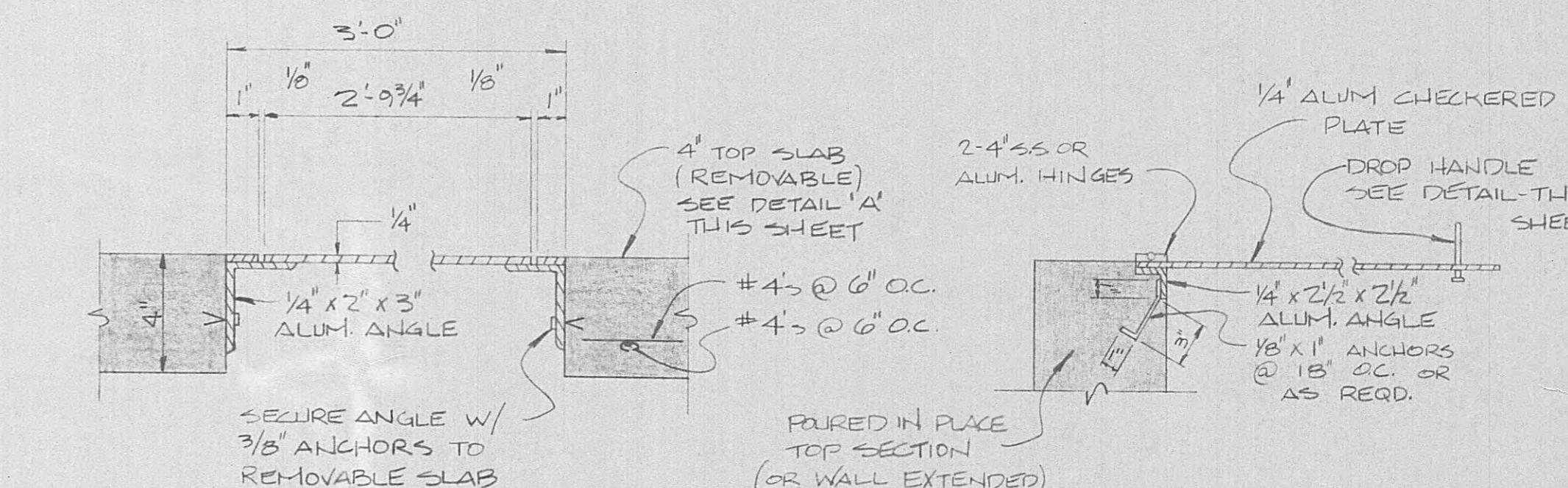
TOP PLAN

SCALE



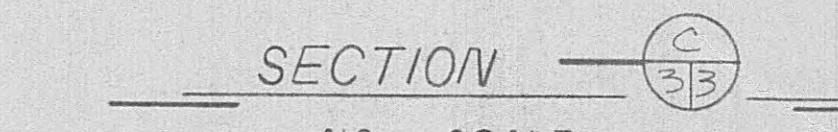
DETAIL "A"

NO SCALE



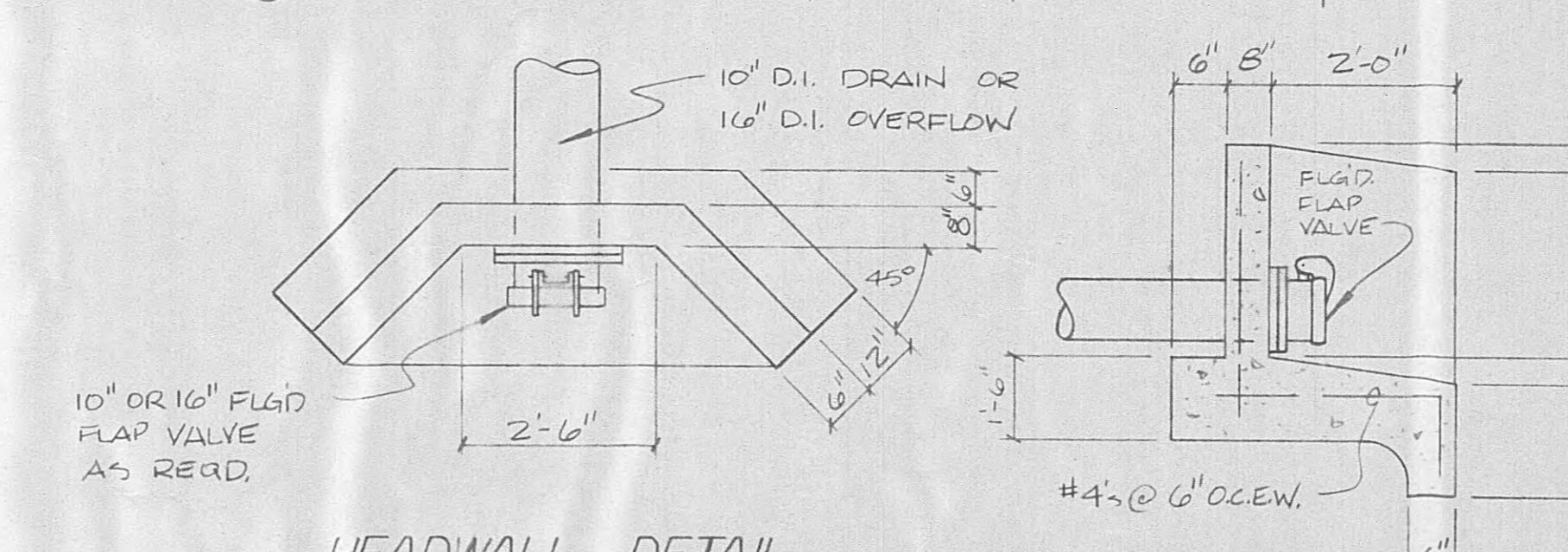
SECTION —

NO SCALE



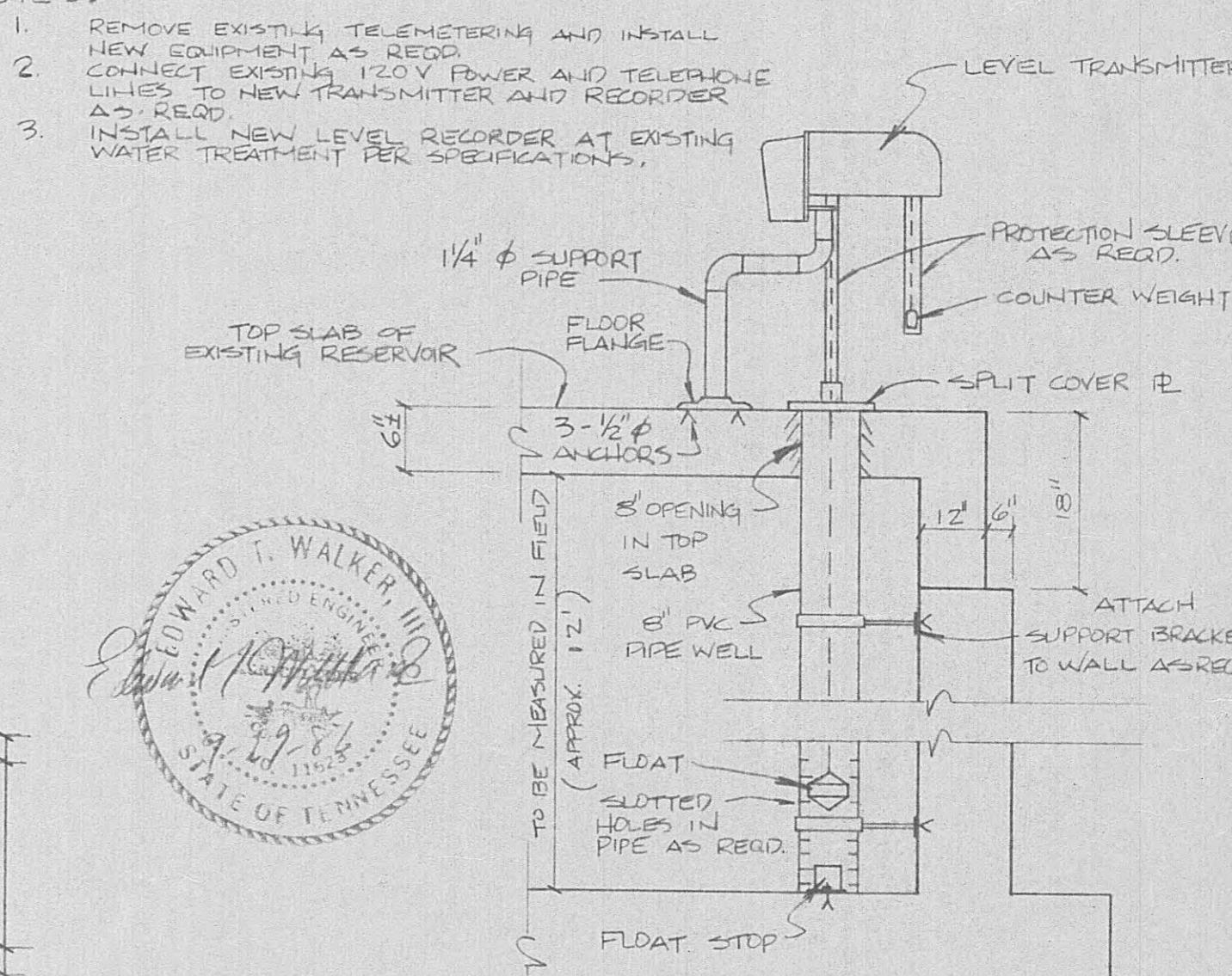
MATERIAL SCHEDULE (ALTITUDE VALVE)

- | | |
|------|---|
| (1) | 16" ϕ D.I.P., PE-PE, LENGTH TO SUIT |
| (2) | 16" M.J. BUTTERFLY VALVE |
| (3) | 16" x 12" M.J.D.I. TEE |
| (4) | 16" M.J.D.I. 90° BEND |
| (5) | 16" D.I. WALL PIPE, PE-PE, LENGTH TO SUIT |
| (6) | 16" ROCKWELL TYPE 913 FLANGED COUPLING ADAPTOR |
| (7) | 16" FLANGED CHECK VALVE w/ OUTSIDE SPRING & LEVER |
| (8) | 16" M.J.D.I. 22½° BEND |
| (9) | 12" ϕ D.I.P., PE-PE, LENGTH TO SUIT |
| (10) | 12" M.J. GATE OR BUTTERFLY VALVE |
| (11) | 12" D.I. WALL PIPE, PE-PE, LENGTH TO SUIT |
| (12) | 12" ROCKWELL TYPE 912 FLANGED COUPLING ADAPTOR |
| (13) | 12" FLANGED ALTITUDE VALVE (SEE SPECIFICATIONS) |
| (14) | 12" M.J.D.I. 90° BEND |
| (15) | 16" D.I. WALL PIPE, FLGD.-PE, LENGTH TO SUIT |
| (16) | 12" D.I. WALL PIPE, FLGD.-PE, LENGTH TO SUIT |



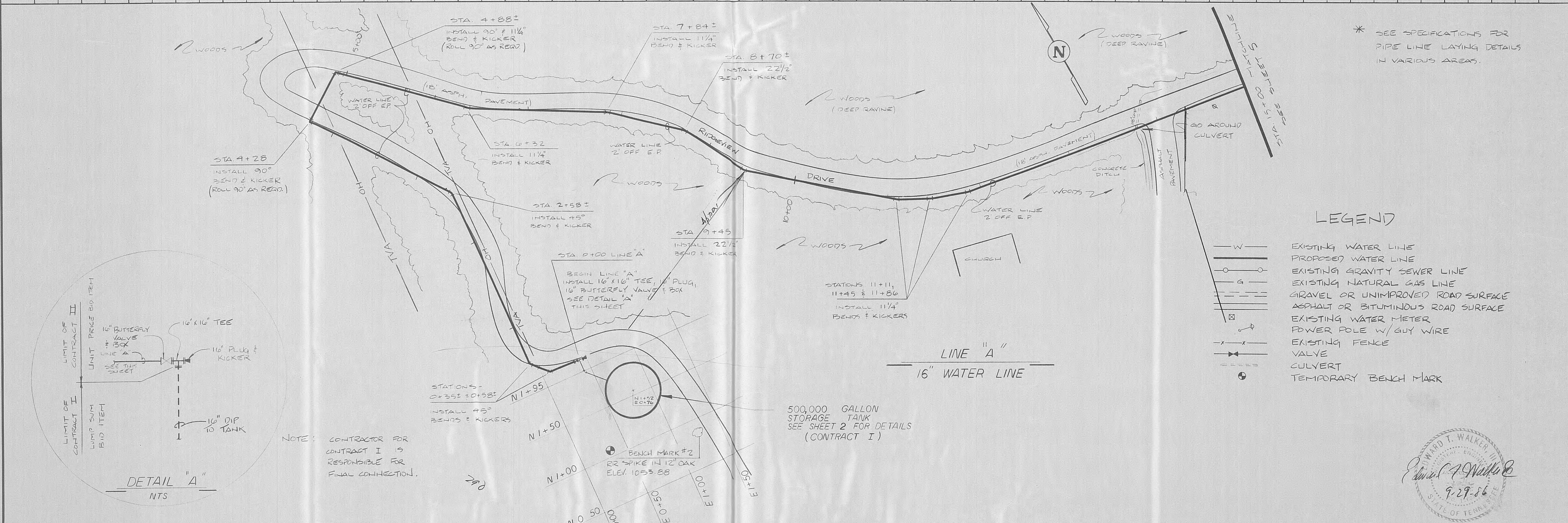
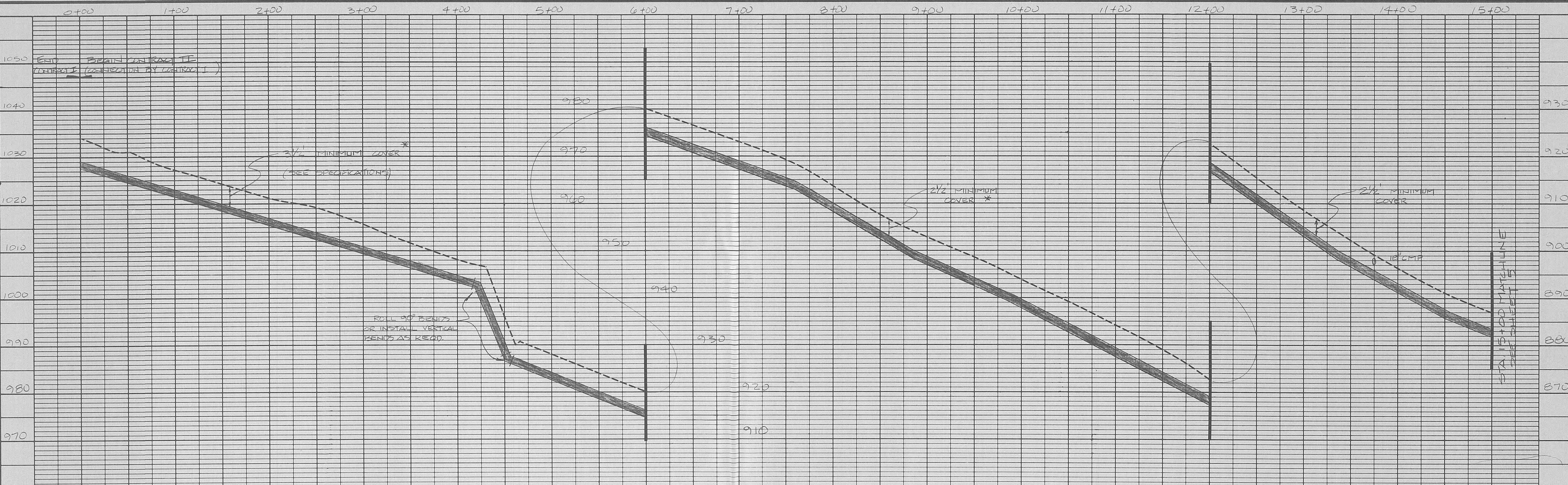
HEADWALL DETAIL

N



LEVEL TRANSMITTER INSTALLATION
AT EXISTING 0.6A MG RESERVOIR

NTS



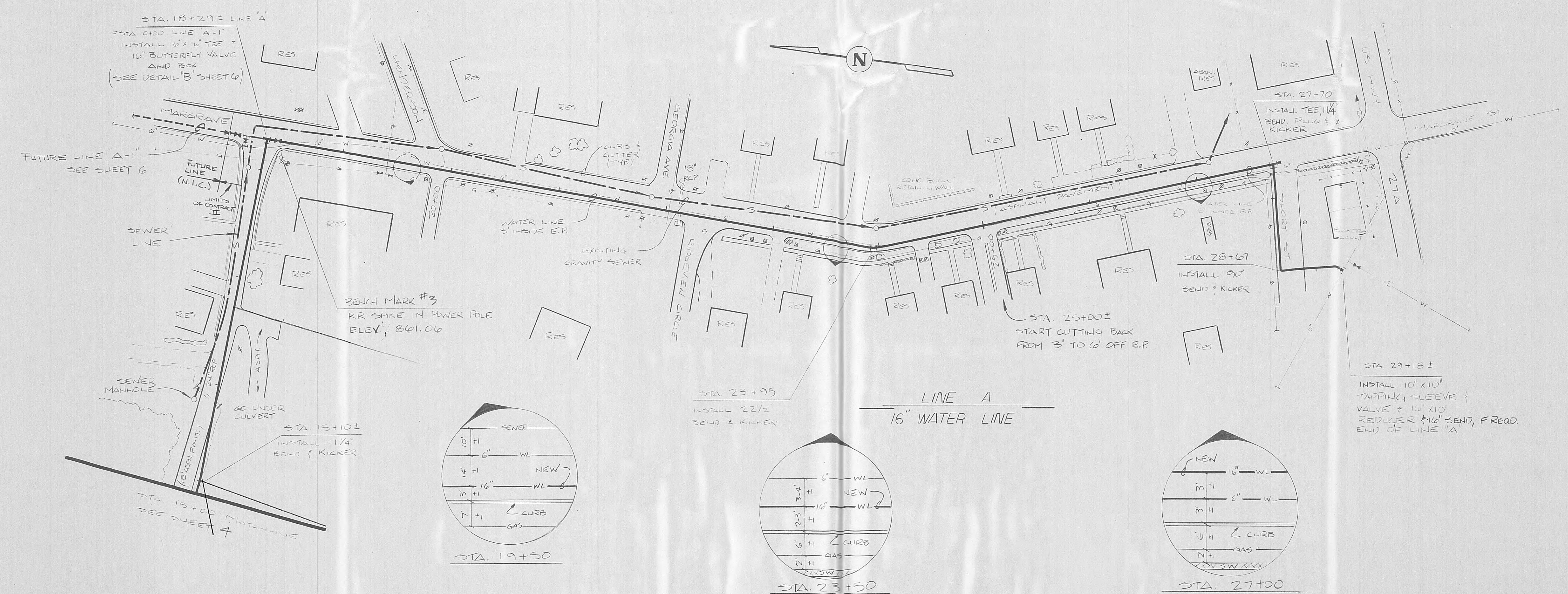
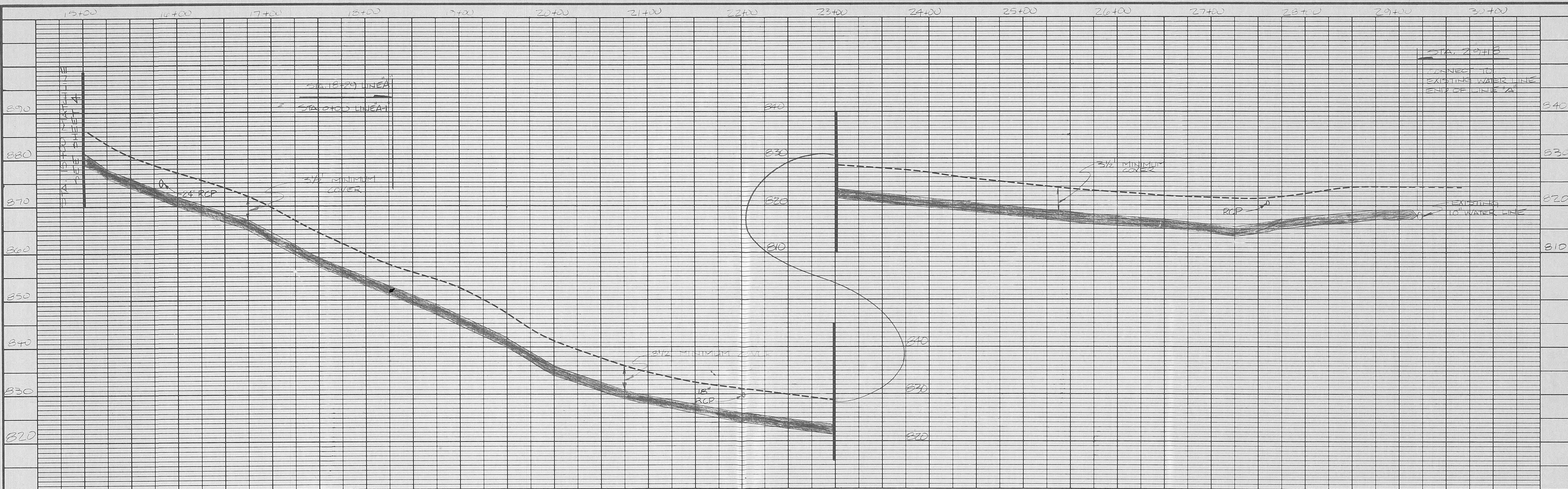
WHITE - TAYLOR - WALKER, INC.
BRENTWOOD, TENNESSEE

REVISION	DATE	DESCRIPTION	BY	DESIGNED	SCALE
				E.T.W.	1"-50' HOR. 10'-10' VERT.
DRAWN	DATE			M.M.	DATE
CHECKED	JOB NO.			CHE.	86-09

**WATER SYSTEM IMPROVEMENTS
CONTRACT II
WATER TRANSMISSION LINES**

LINE "A" STA.0+00 TO STA. 15+00

HARRIMAN, TENNESSEE



WHITE - TAYLOR - WALK

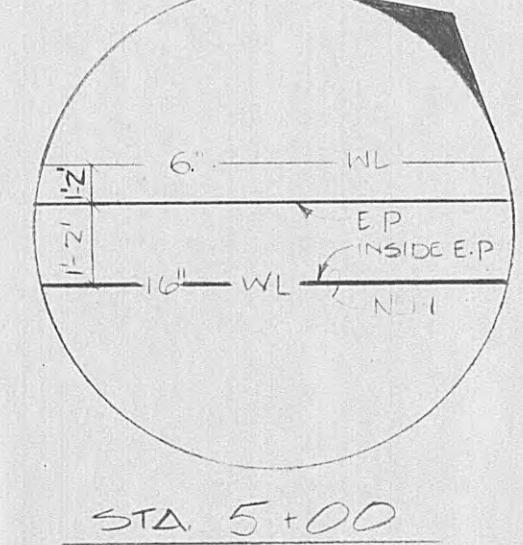
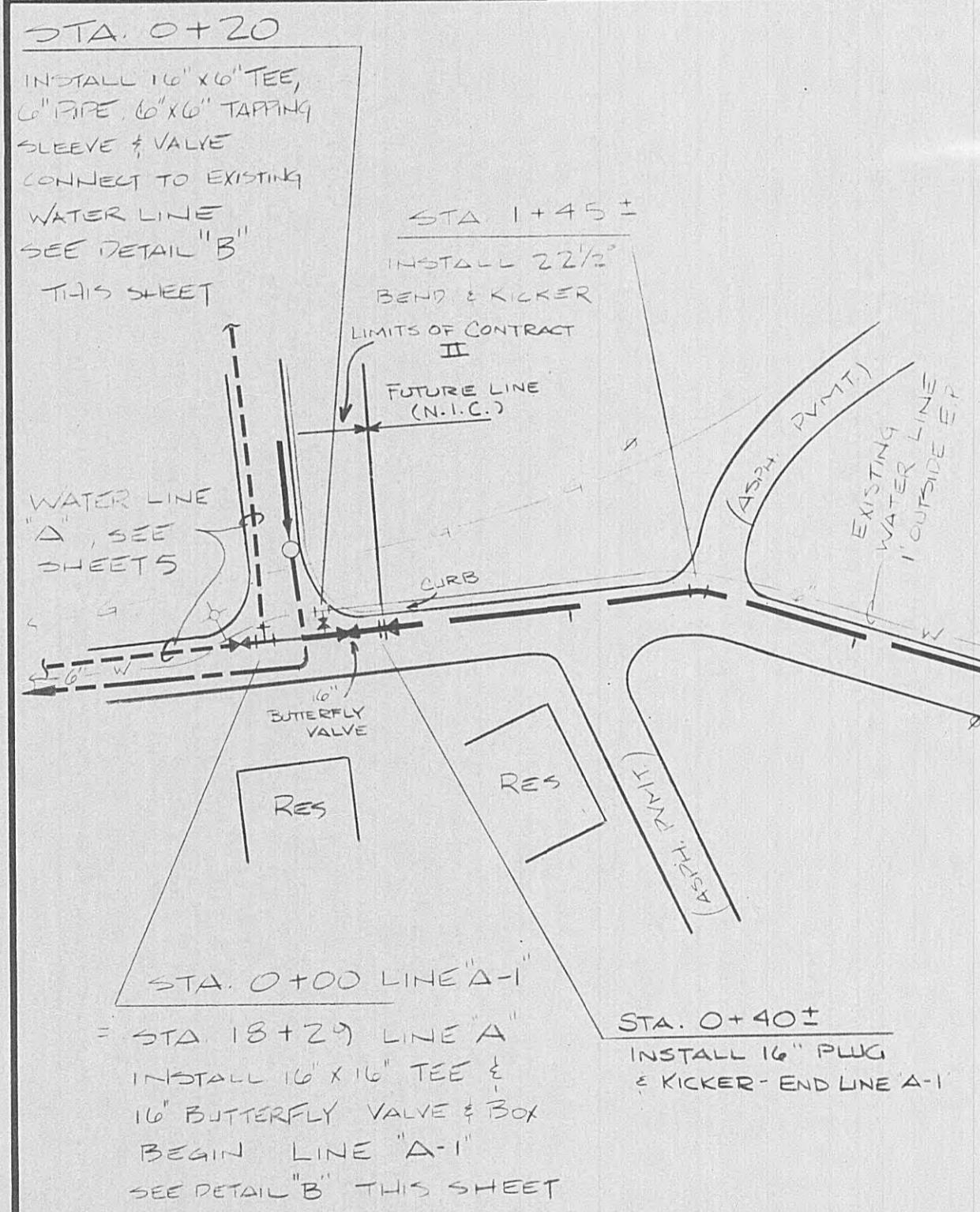
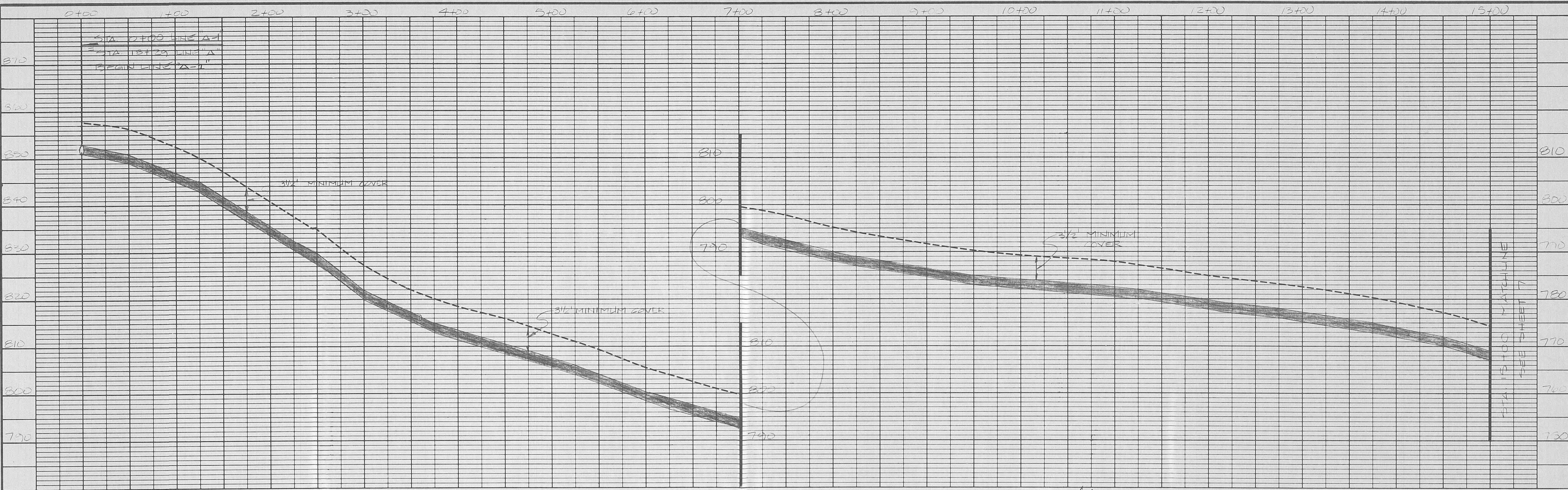
BRENTWOOD, TENNESSEE

REVISION	DATE	DESCRIPTION
△	4-13-87	DELETED LINE "A-1" FROM CONTRACT I

**WATER SYSTEM IMPROVEMENTS
CONTRACT II
WATER TRANSMISSION LINES**

LINE "A" STA. 15+00 TO STA. 29+18

SHEET
5
OF
8

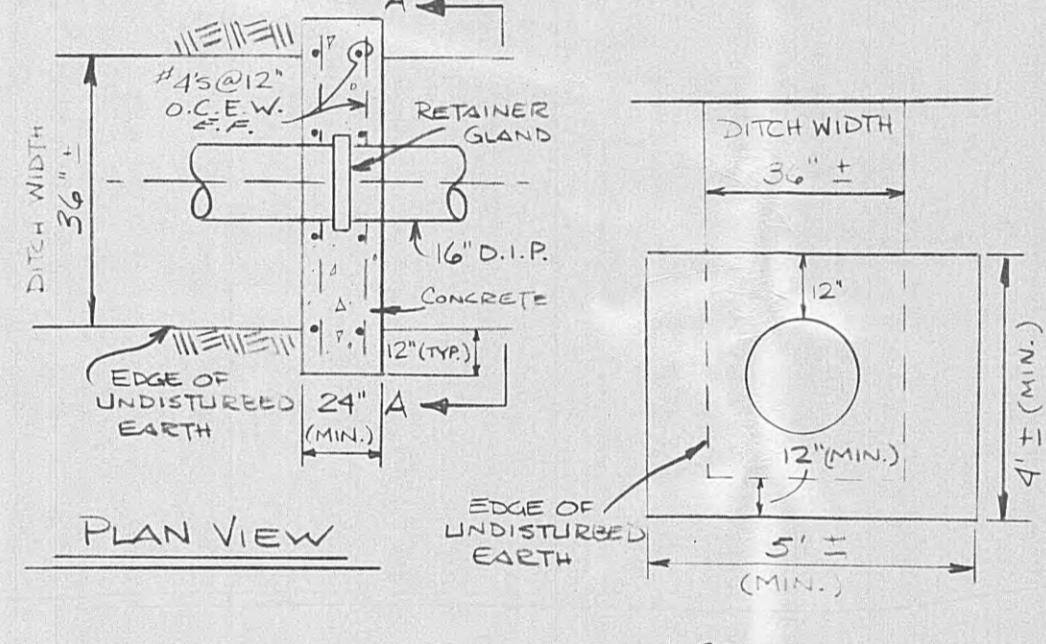


LINE "A-1"
16" WATER LINE

NOTE: ONLY FIRST 40 FEET OF LINE "A-1" WILL BE INCLUDED IN CONTRACT II.
REMAINING PORTION OF LINE "A-1" WILL BE CONSTRUCTED UNDER FUTURE CONTRACT.

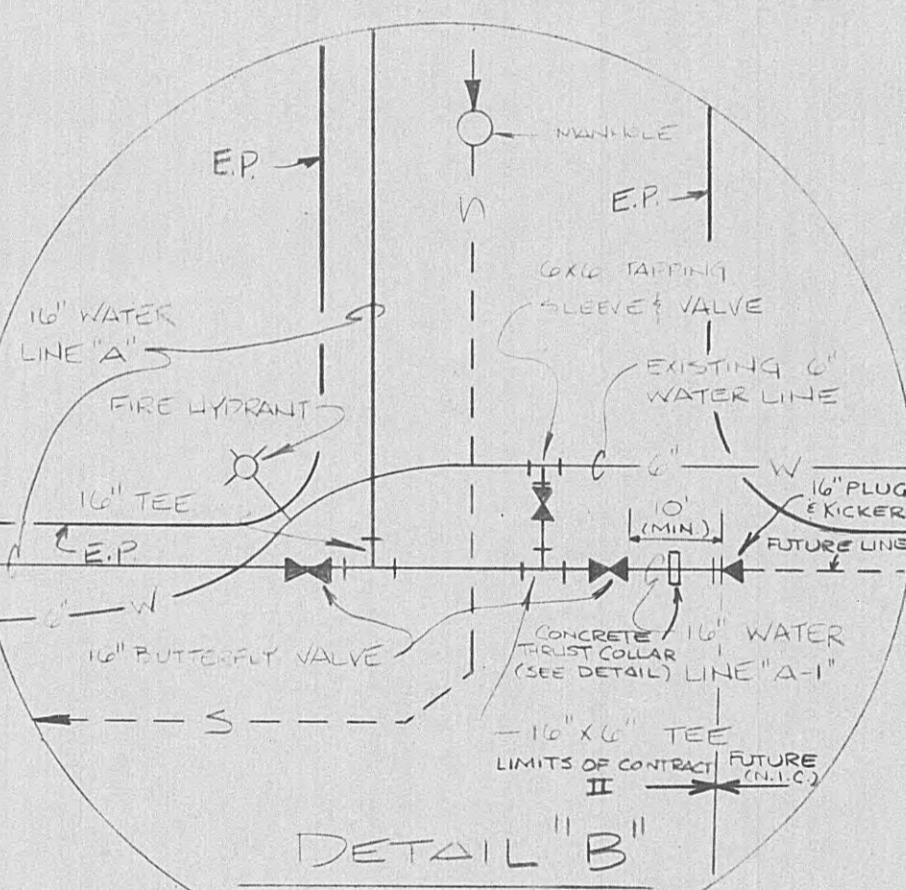
STA 12+00

NOTE:
COST OF CONCRETE THRUST COLLAR WILL NOT BE A SEPARATE PAY ITEM BUT WILL BE MERGED INTO UNIT PRICE OF PIPELINE PER LINEAR FOOT.



SECTION A-A

CONCRETE THRUST COLLAR
N.T.S.



STA. 15+00 HATCHED SHEET 7

WHITE - TAYLOR - WALKER, INC.
BRENTWOOD, TENNESSEE

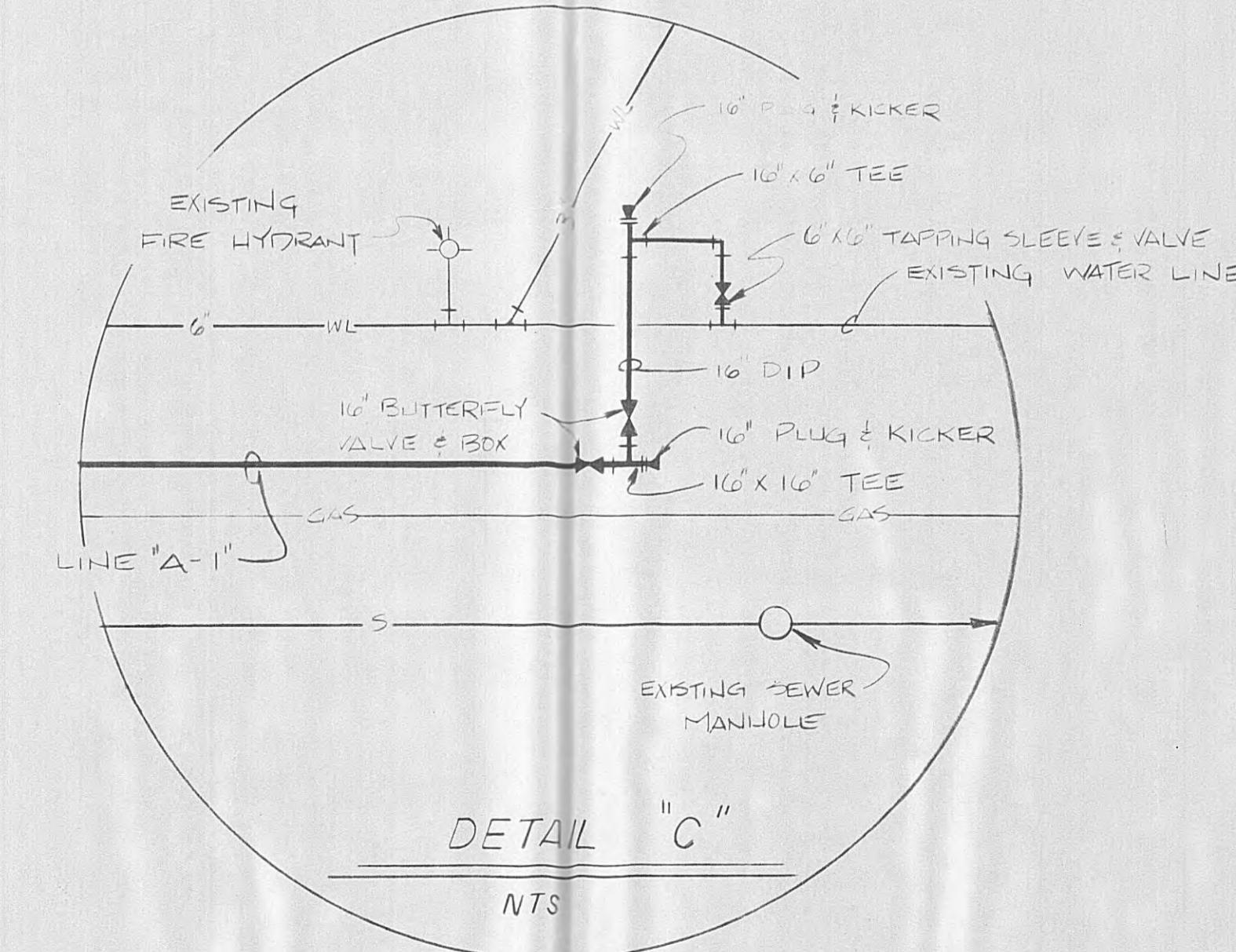
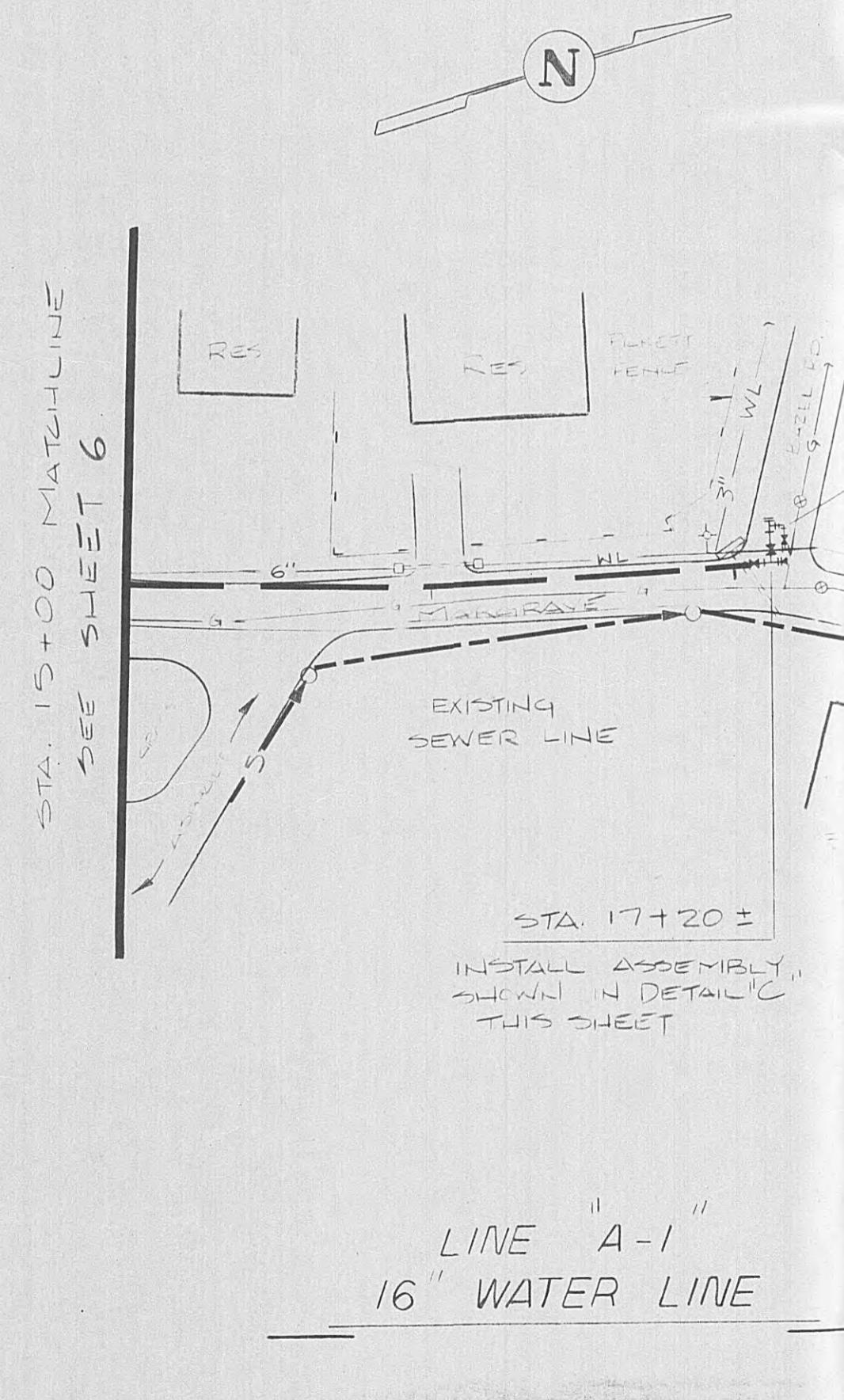
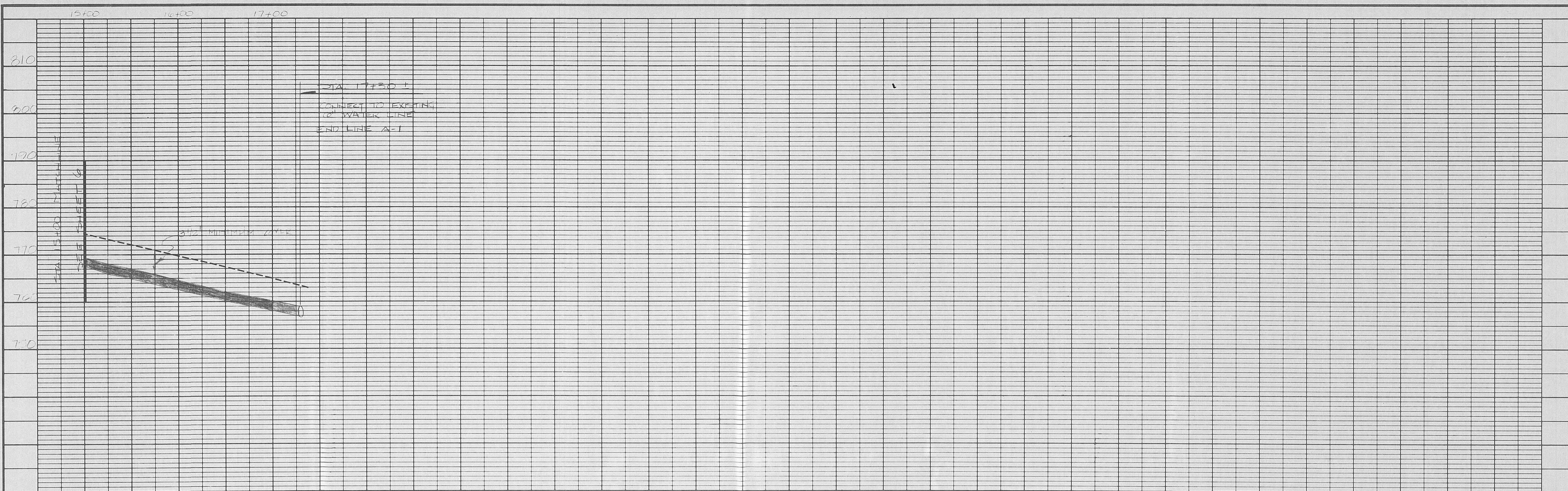
REVISION	DATE	DESCRIPTION	BY	DESIGNED	SCALE
A	4-13-87	DELETED LINE "A-1" FROM CONTRACT II	ETW	E.T.W.	1"=50' HOR. 10' VERT.
				DRAWN M.M.	DATE SEPT. 1986
				CHECKED ETW	JOB NO. 86-09

WATER SYSTEM IMPROVEMENTS
CONTRACT II
WATER TRANSMISSION LINES

WATER LINE "A-1"
STA. 0+00 TO STA. 15 + 00
HARRIMAN, TENNESSEE

SHEET
6
OF
8

Edna P. Walker
9-29-83



REVISION	DATE	DESCRIPTION	BY	DESIGNED	SCALE
A	4-13-81	DELETED LINE A-I FROM CONTRACT II	ETW	ETW	1" = 50' HOR 10' VERT.
			DRAWN	DATE	
			MM	SEPT. 1986	
			CHECKED	JOB NO.	
			ETW	86-09	

Eduard M. Walker
9-27-86

90° BEND							
SIZE	4"	6"	8"	10"	12"	14"	16"
0	8	10	12	12	12	18	
1	21	24	27	30	34	50	
W	12	12	16	20	24	30	
T	13	16	18	20	22	24	

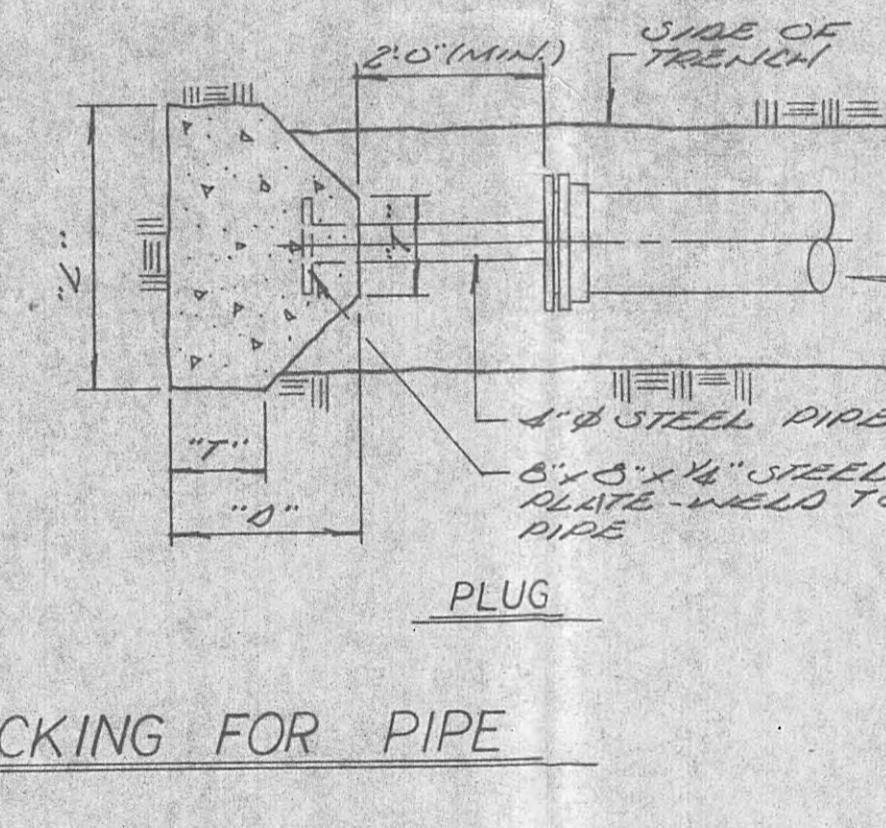
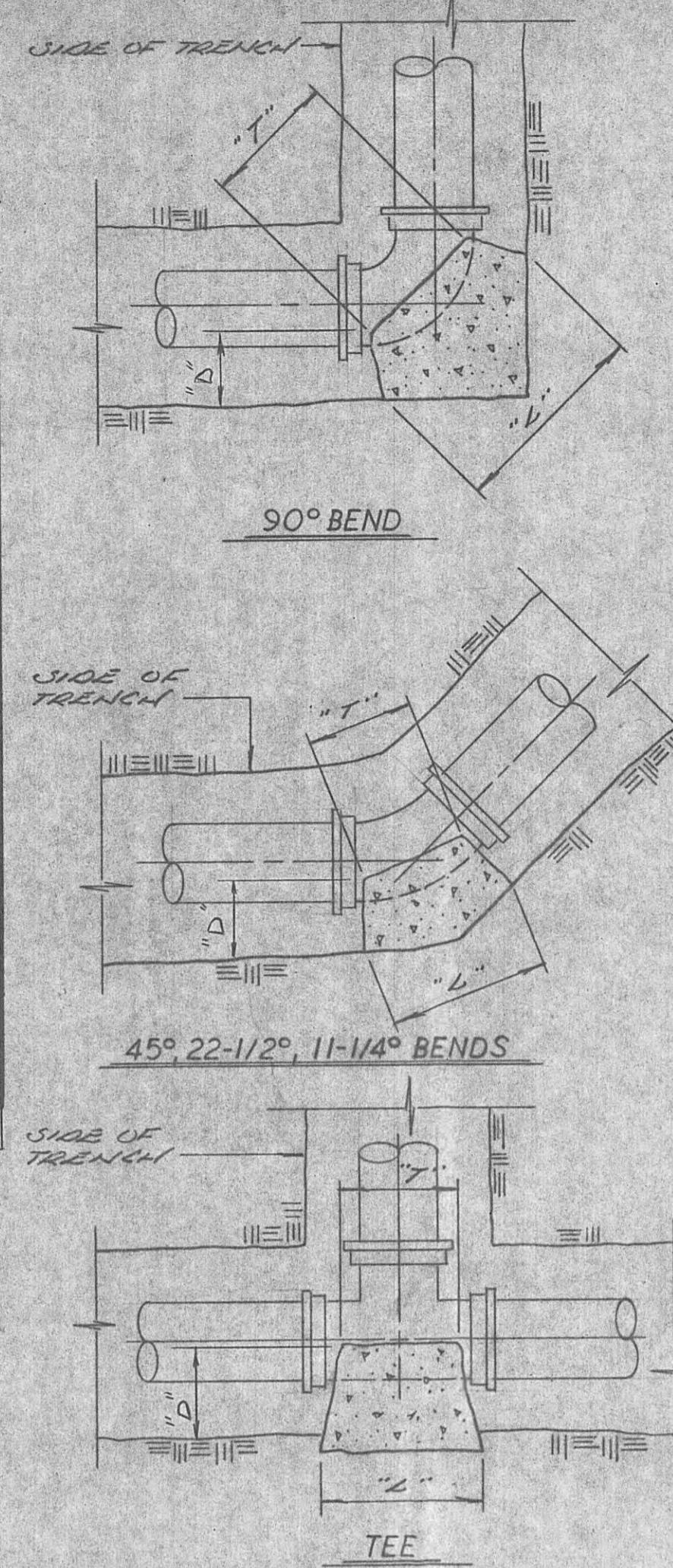
45° & 22½° BENDS							
SIZE	4"	6"	8"	10"	12"	14"	16"
0	6	6	6	6	10	18	
1	16	18	20	22	24	50	
W	12	12	14	16	18	24	
T	14	16	16	18	18	18	

11¼° BEND							
SIZE	4"	6"	8"	10"	12"	14"	16"
0	6	6	6	6	10	10	
1	12	14	16	18	20	48	
W	12	12	14	16	18	24	
T	12	14	14	16	16	10	

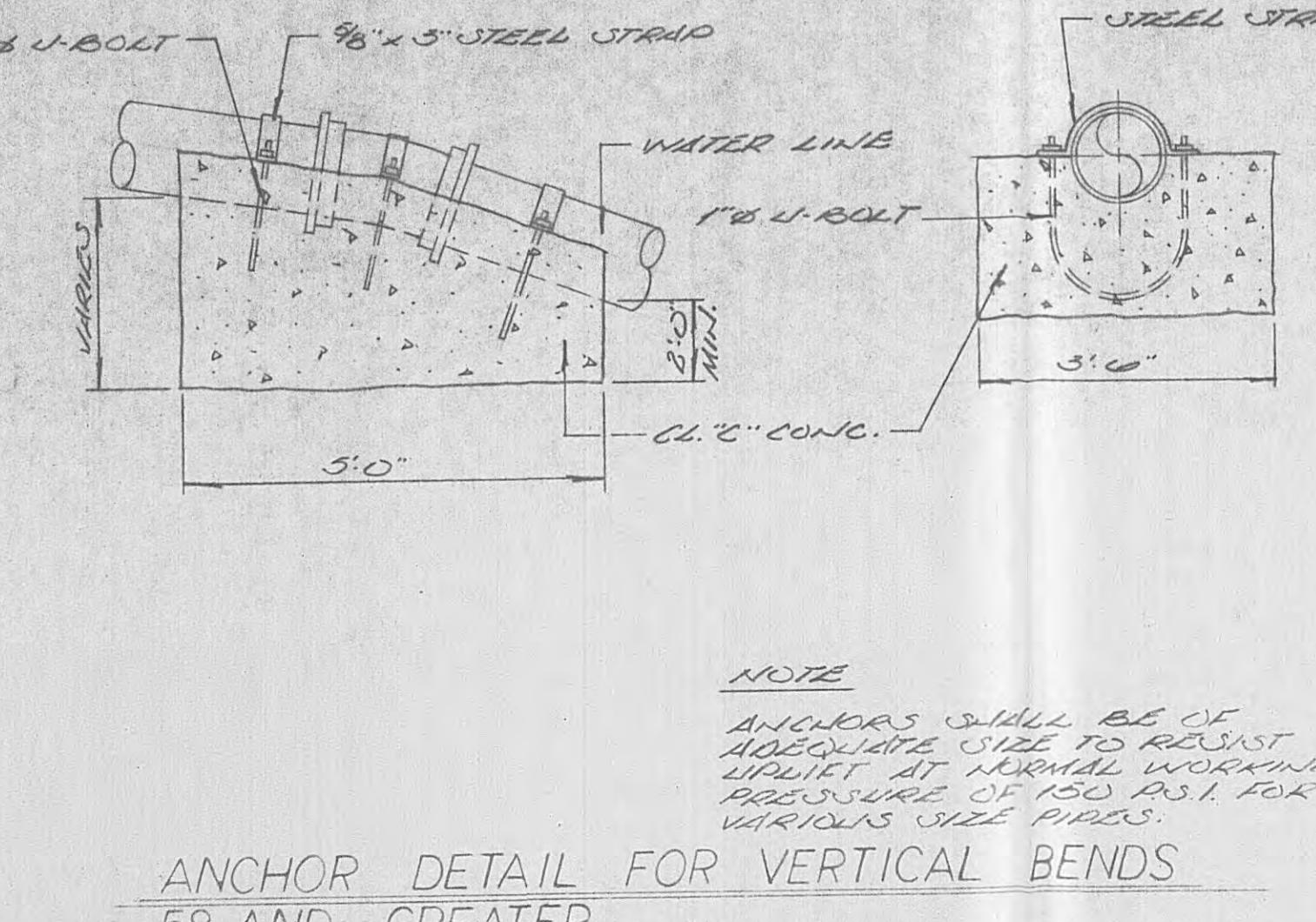
TEE							
SIZE	4"	6"	8"	10"	12"	14"	16"
0	8	8	10	12	12	18	
1	16	18	18	22	27	50	
W	12	12	16	20	24	30	
T	10	12	12	16	18	22	

PLUG							
SIZE	4"	6"	8"	10"	12"	14"	16"
0	12	12	24	30	30	36	
1	21	24	24	30	30	44	
W	12	12	18	24	24	44	
T	8	8	12	12	12	14	

NOTE: W IS WIDTH DIMENSION



CONCRETE BLOCKING FOR PIPE



ANCHOR DETAIL FOR VERTICAL BENDS
5° AND GREATER

MAX ALLOWABLE WEIGHT OF PUMA AND
ASTM REQUIREMENT FOR
ESTIMATING QUANTITIES.
THE CONTRACTOR SHALL REPLACE ALL
OTHER ALLOWED PUMA AT HIS OWN
EXPENSE.

1/2" ASPH CONC.
* MAX PAY WIDTH 5' 0"
2" ASPHALT CONCRETE OR
ROUGH BITUMINOUS SURFACE
1/4" (MIN) THICKNESS
5' 0" *# 4" 6" INCH PIPE DIA.
EXISTING PAVEMENT AND BASE
9" BINDER
18" MIN CUT BACK
UNIT PRICE CRUSHED STONE
CL. "C" CONC.
BACKFILL WITH COMPACTED
CRUSHED STONE, TENS. 1000 PSI,
26.24", ACROSS 10".
COMPACTED CRUSHED
STONE BEDDING AS
SPECIFIED
BEDDING INCL.
IN PIPE PRICE
BEDDING INCLUDED
IN PIPE PRICE
BEDDING INCLUDED
IN PIPE PRICE

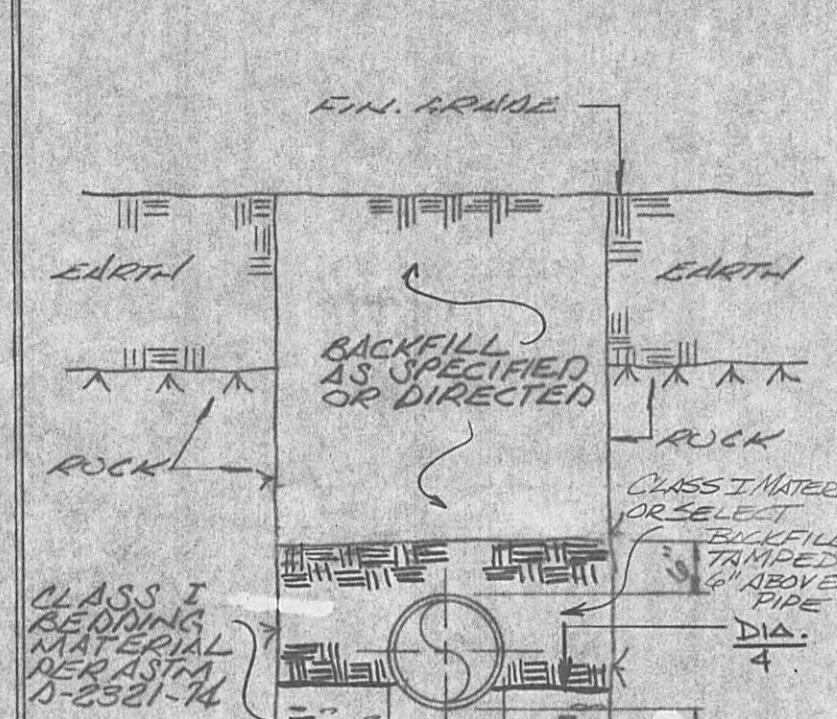
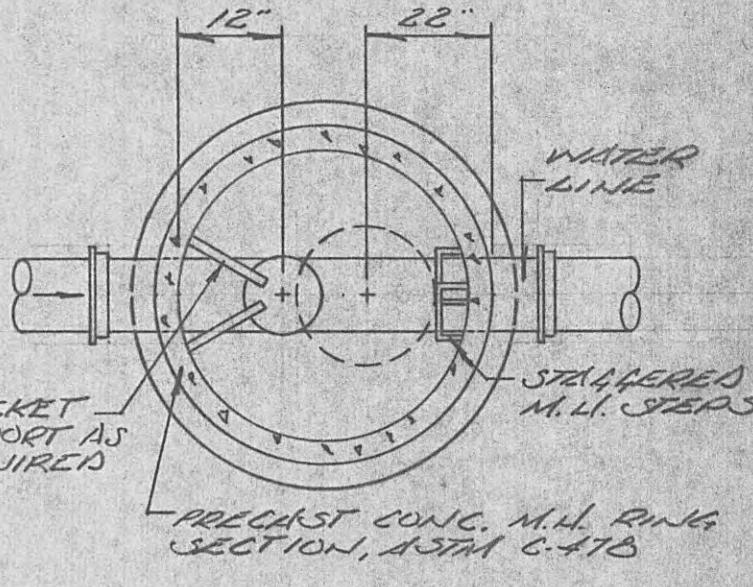
CONCRETE PAVEMENT
REPLACEMENT

OPEN CUT PAVEMENT REPLACEMENT
WITHIN STATE HIGHWAY RIGHT-OF-WAY

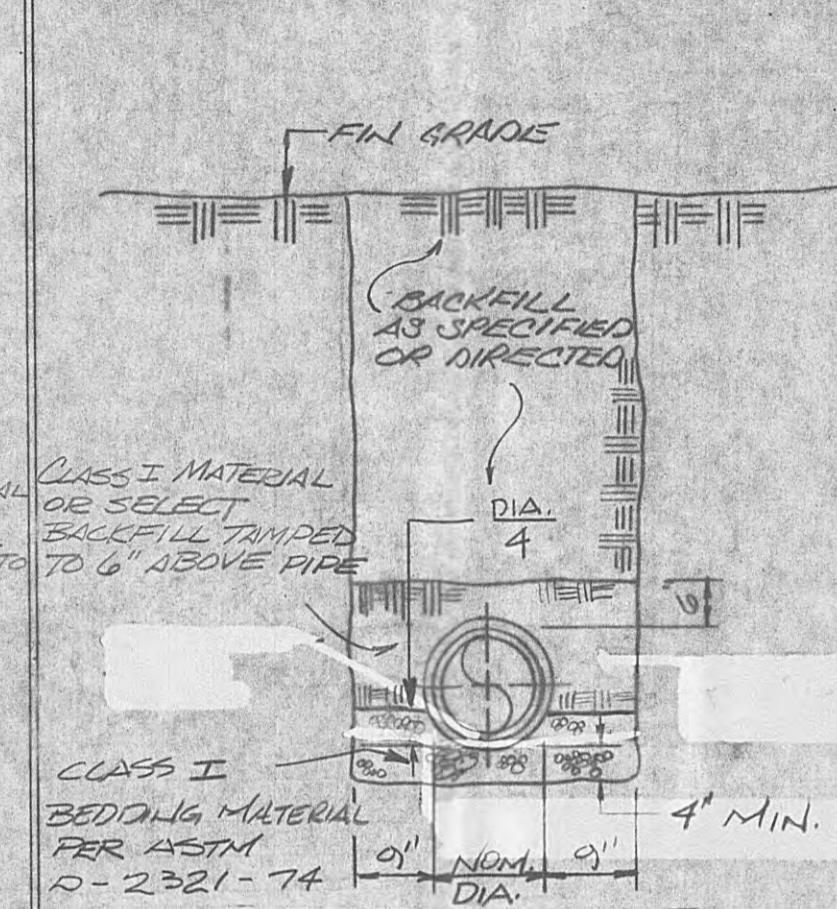
BITUMINOUS
PVMT. REPLACEMENT

400 LB (MIN.) CL. MANHOLE FRAME AND
SOIL COVER W/B:W CLEAR OPENING (MIN.)
JOHN BUCHARD AND SONS #1150 OR
APPROVED EQUAL

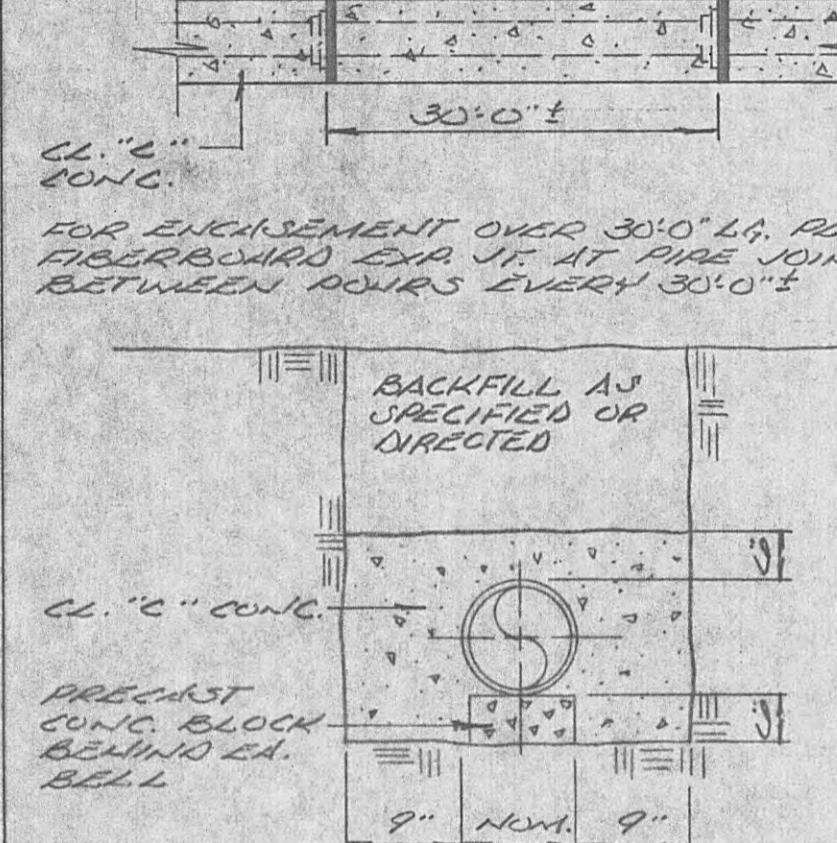
PAVEMENT
PRECAST FLAT
MANHOLE TOP
#3 @ 6" C.C.W.
M.L. STEPS
ASPC #200 ARV
CLAMP STOP
ASPC-200-ARV
GROUT
UNION
SWIT-OFF VA.
10' 0" X 14' AIR
SECTION
GROUT
3/4" CONTINUOUS
COMPACTED
CRUSHED STONE
AIR RELEASE VALVE DETAIL



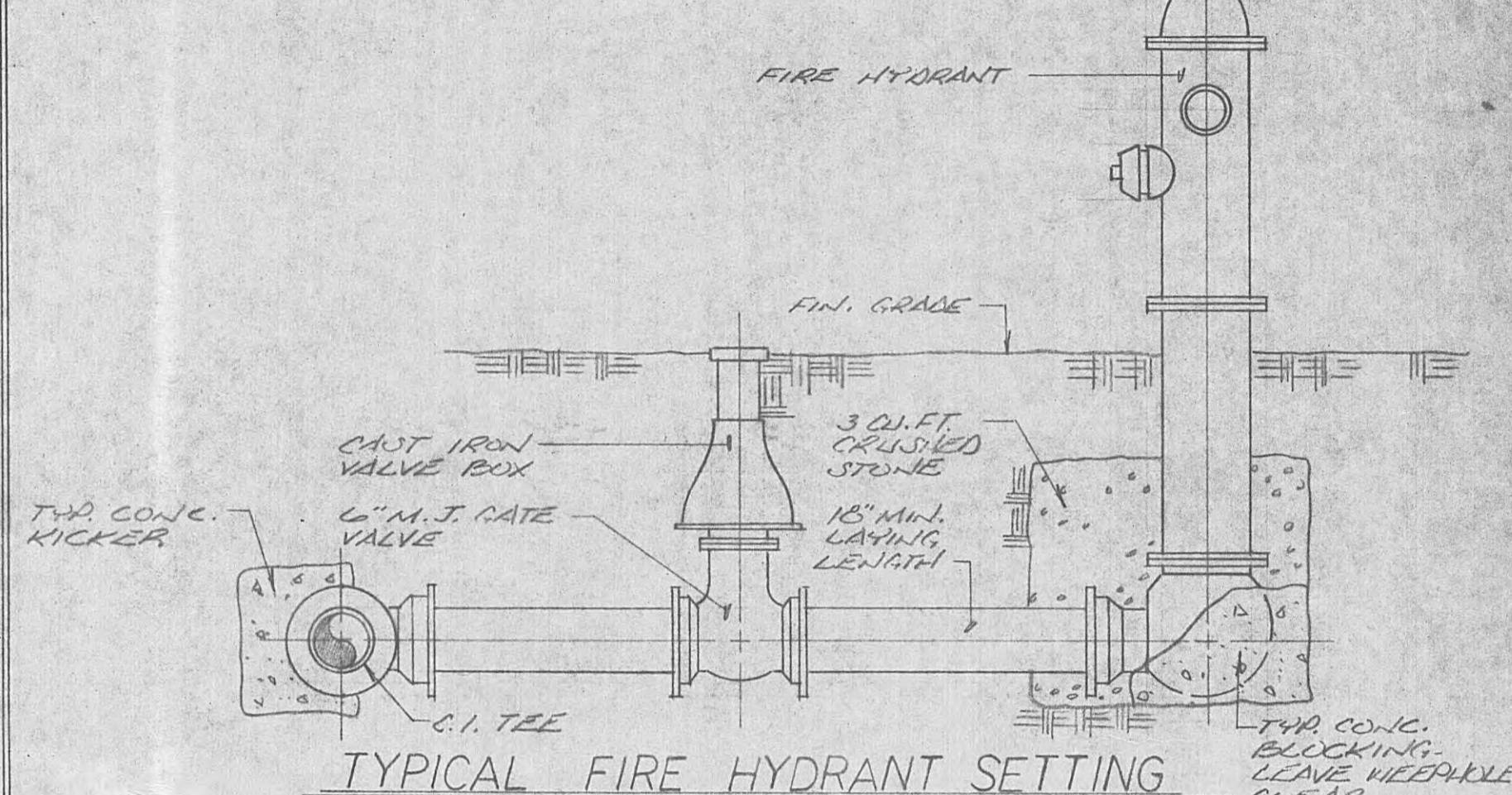
STANDARD PIPE BEDDING
IN ROCK TRENCH



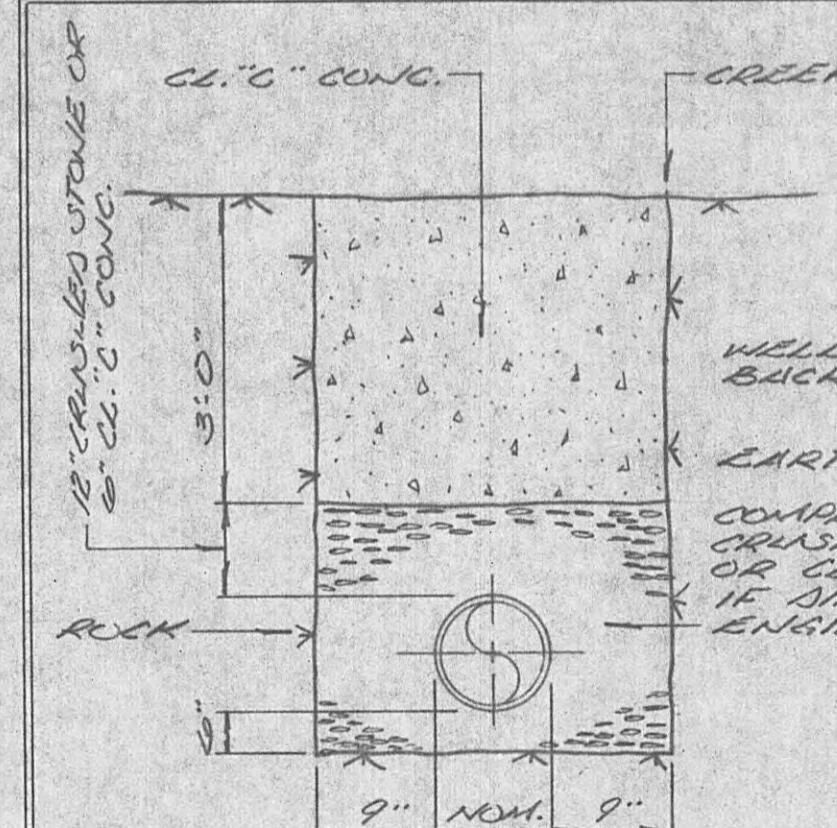
WATER LINE
STANDARD BEDDING DETAIL



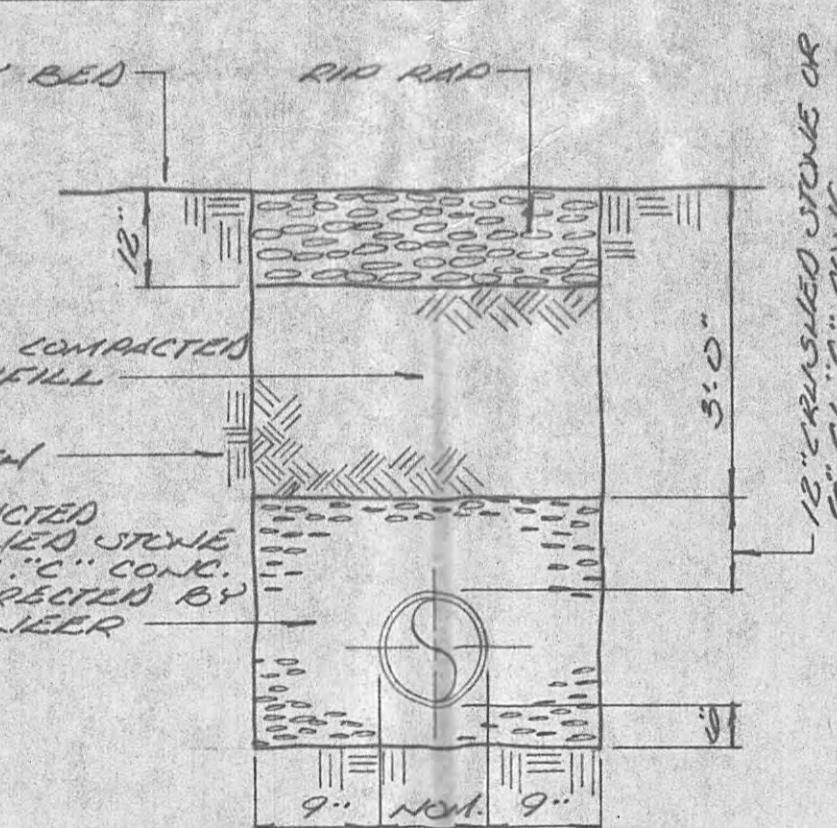
STANDARD CONCRETE
ENCASEMENT



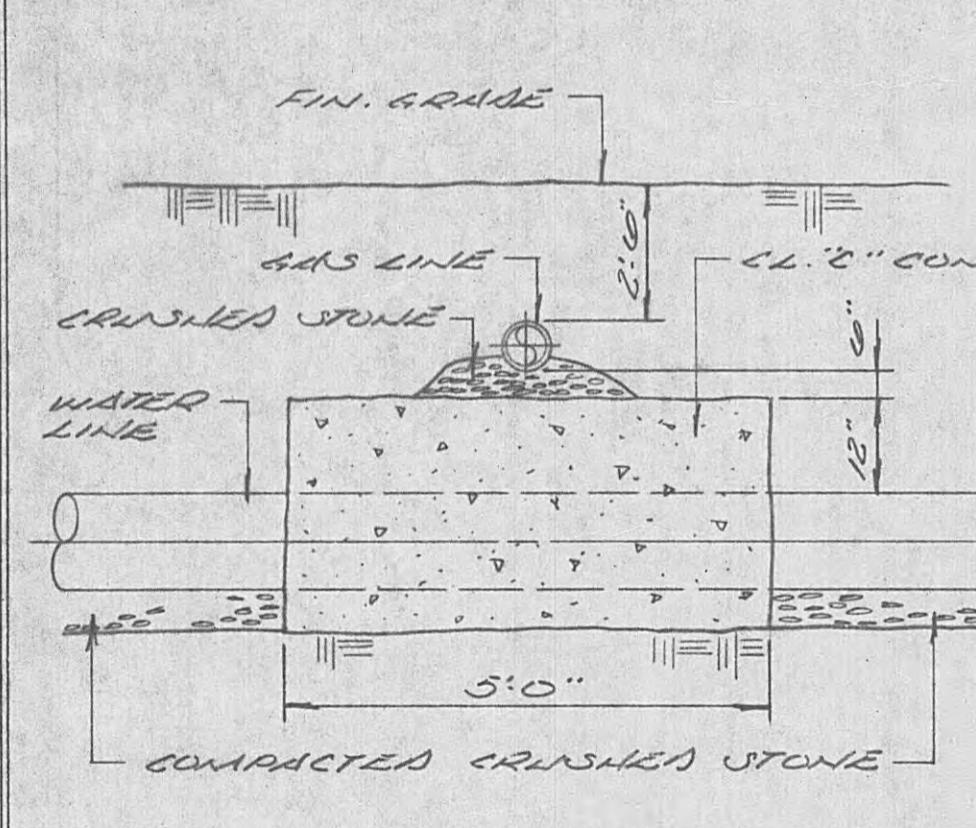
TYPICAL FIRE HYDRANT SETTING



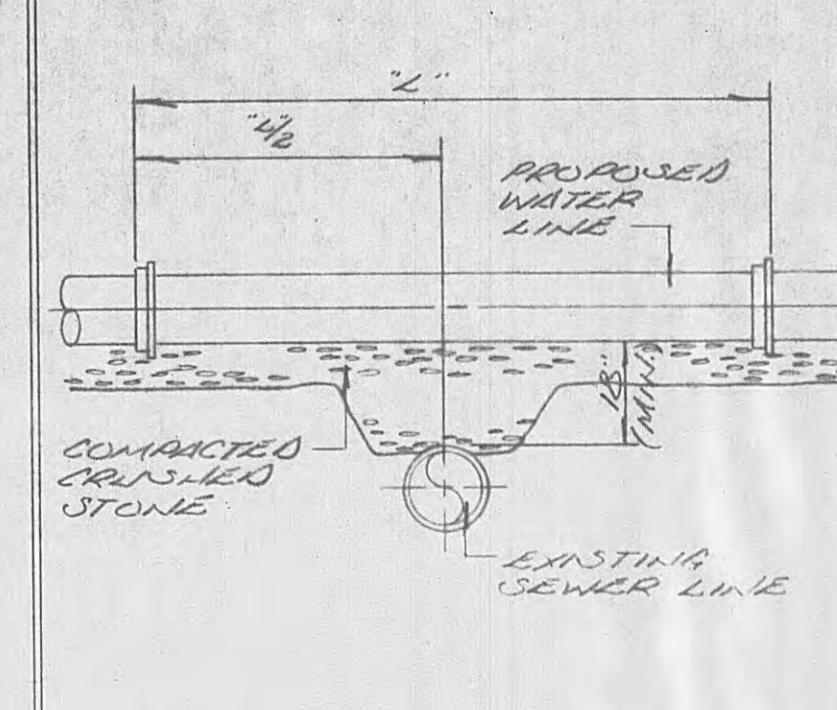
TYPICAL STREAM CROSSING DETAIL



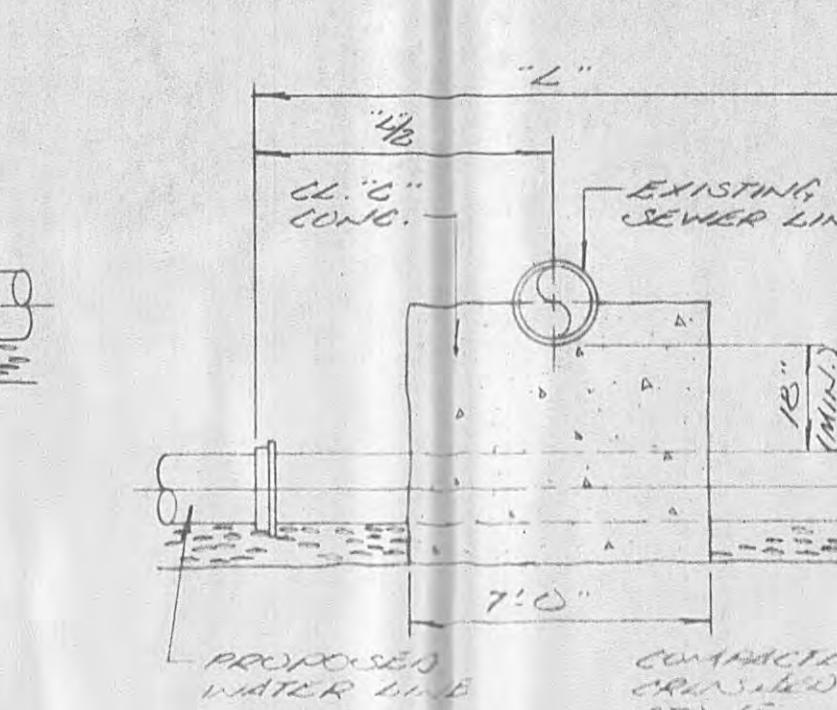
TYPICAL STREAM CROSSING DETAIL



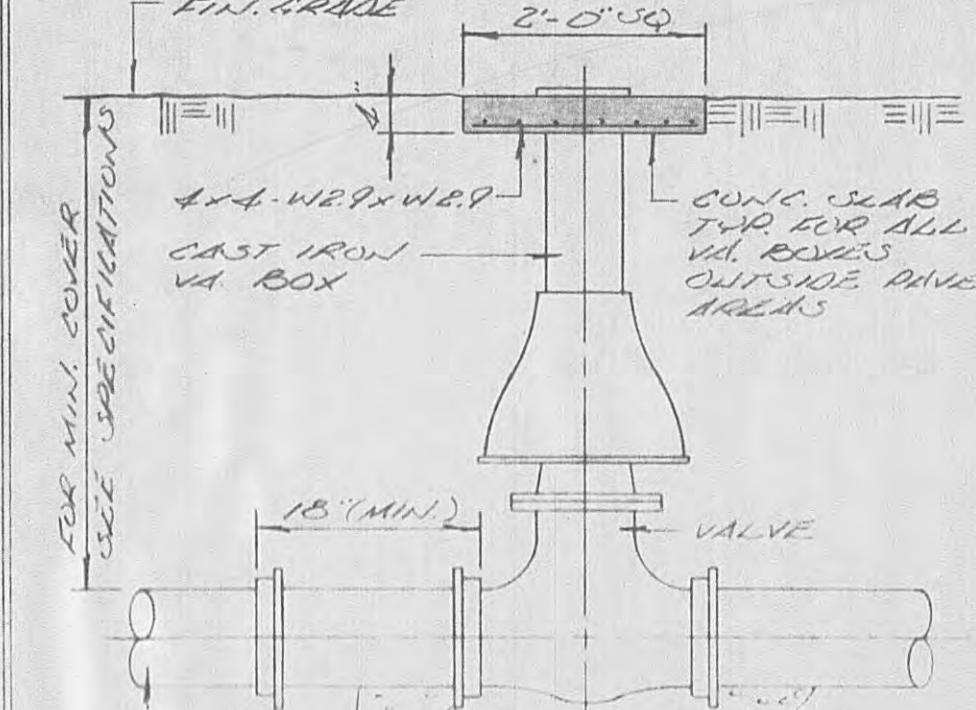
GAS TRANSMISSION LINE
CROSSING DETAIL



WATER LINE ABOVE SEWER



WATER LINE BELOW SEWER



TYPICAL VALVE SETTING

WHITE - TAYLOR - WALKER, INC.
BRENTWOOD, TENNESSEE

BURNING 45-23-4582

REVISION	DATE	DESCRIPTION	BY	SCALE
E.T.W.				NONE
DRAWN				DATE
J.D.G.				SEPT. 1986
CHECKED				JOB NO.
E.T.W.				R6-05

WATER SYSTEM IMPROVEMENTS
CONTRACTS I & II

STANDARD WATER LINE DETAILS
HARRIMAN, TENNESSEE

8

Laura M Miller
9-29-86