

STORM SEWERS IN WOODLANDS EAST

PROJECT NO. 468-76-245-81158-000-000-001

S.W.S. NO. 235

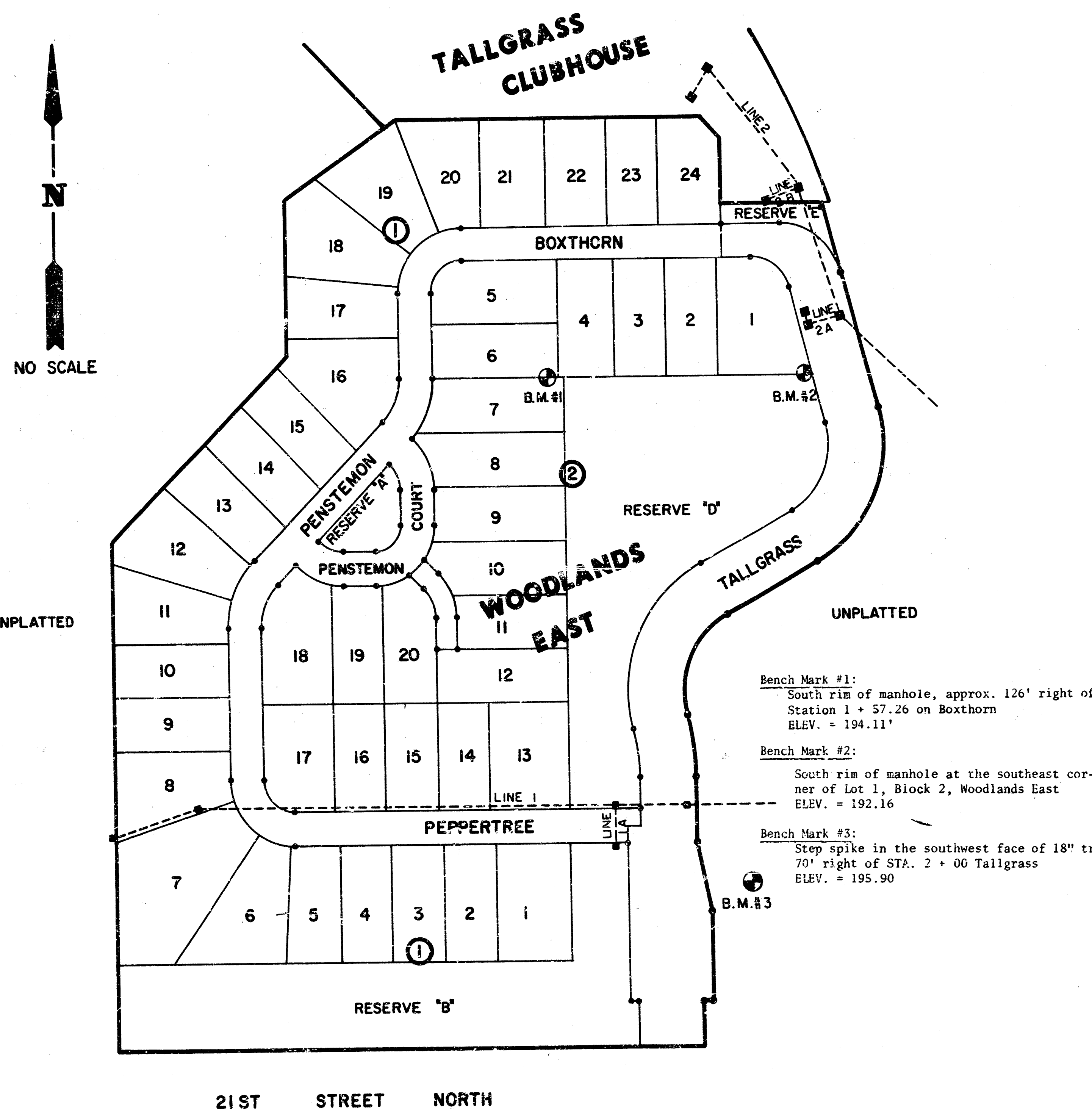
CITY OF WICHITA, KANSAS
R. W. BRUGGEMAN, CITY ENGINEER
JANUARY 1982

GENERAL NOTES

- The Contractor shall be responsible for preserving property irons. The Contractor shall be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance with state laws.
- The tops of inlets and manholes as noted on the plans may vary so as to meet proposed top of curb elevations or pavement elevations. The Field Engineer shall locate inlets and manholes with reference to proposed paving plans of the pertinent streets (available through Van Doren-Hazard-Stallings).
- All metal pipes shall be helically corrugated pipe fully coated both inside and outside. The coating may be bituminous or polymeric as specified in AASHTO Designation: M246-78, Type B. All such coated corrugated pipe shall be smooth flow pipes for sizes 24" diameter and larger. All connections for these fully coated or fully paved and fully coated pipes shall be of fairly watertight construction using hugger type coupler or equal.
- All concrete shall be Standard Paving Mix unless otherwise noted.
- The riprap for this project shall be type 3. The type 3 riprap shall be 12" riprap. The rock for riprap and gravel protection shall be hard, dense, durable and shall be reasonably well graded. The size range of rock used shall be a maximum of one cubic foot and a minimum of 1 1/2".
- The Contractor shall avoid uncovering existing water lines unless absolutely necessary. Uncovering shall be done only in the presence of a Water Department Engineer.
- The Contractor shall have the option of installing precast concrete type 1A curb inlets in lieu of the brick type structure. See standard detail precast type 1A curb inlet, dated August, 1979.
- Inlets with concrete tops shall have manhole rings and covers according to the following schedule:

Length	No. of Rings & Covers
5'	1
6-10'	2
11-15'	3
16-20'	4

Rings shall be spaced such that there is a maximum of 2.5 feet from inside of wall to center of ring and a maximum of 5 feet (center to center) between rings. Rings and covers shall be centered front to back of concrete tops. The number and spacing of rings and covers may vary with the approval of the Field Engineer and Sewer Maintenance Department.



NOTE TO CONTRACTORS

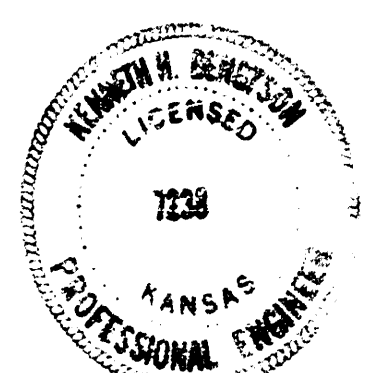
Notify the following Companies prior to any construction:

Bell Telephone Co.	268-3087
Gas Service Co.	263-7511
Kansas Gas & Electric	261-6248
Golf Course Maintenance	681-0243
Ken Pong	

Due to extensive, on going construction, special attention should be given to the location of underground utilities.

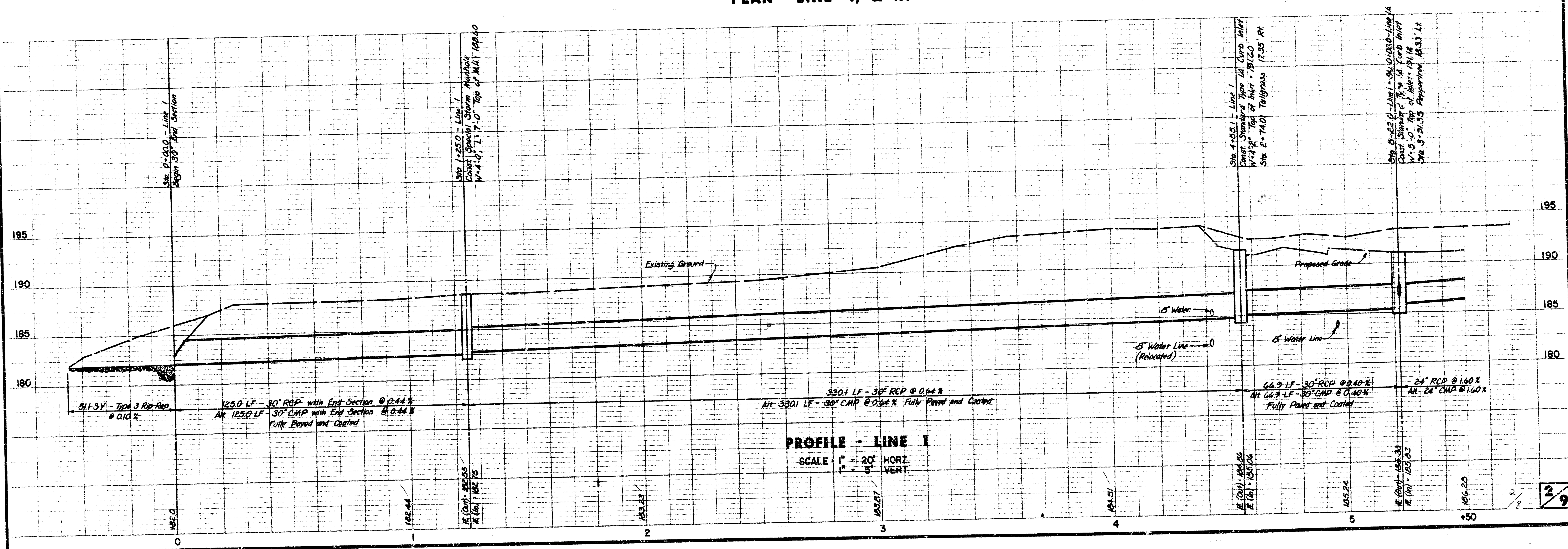
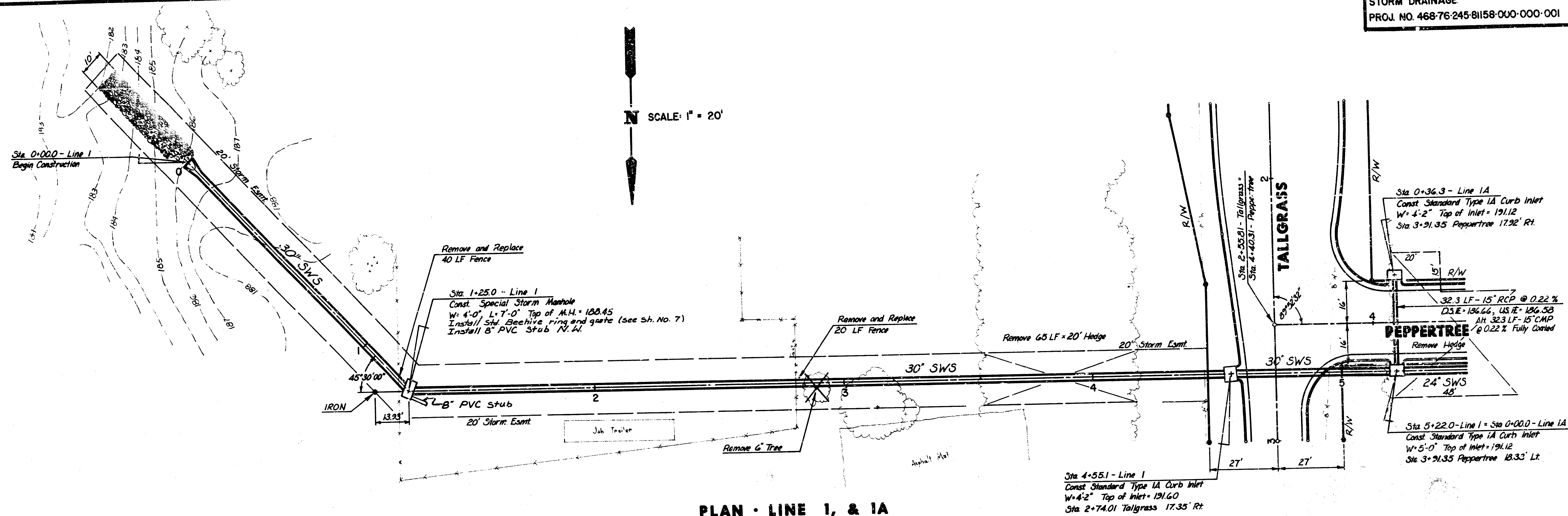
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2	LINE 1, LINE 1A
3	LINE 1
4	LINE 2, 2A
5	LINE 2, 2B
6	TYPE 1A CURB INLET
7	MANHOLE, SPECIAL DITCH INLET
8	WOODLANDS EAST PLAT
9	TALLGRASS CLUBHOUSE PLAT



Van Doren Hazard Stallings
Architects - Engineers - Planners
Topeka - Wichita - Minneapolis - Kansas City

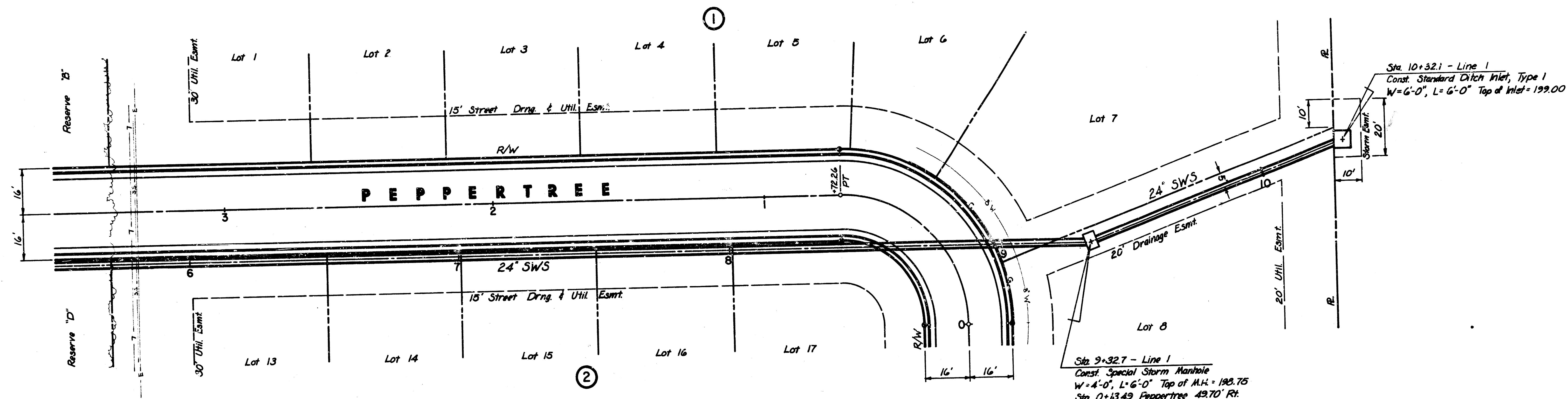
Sheet 1
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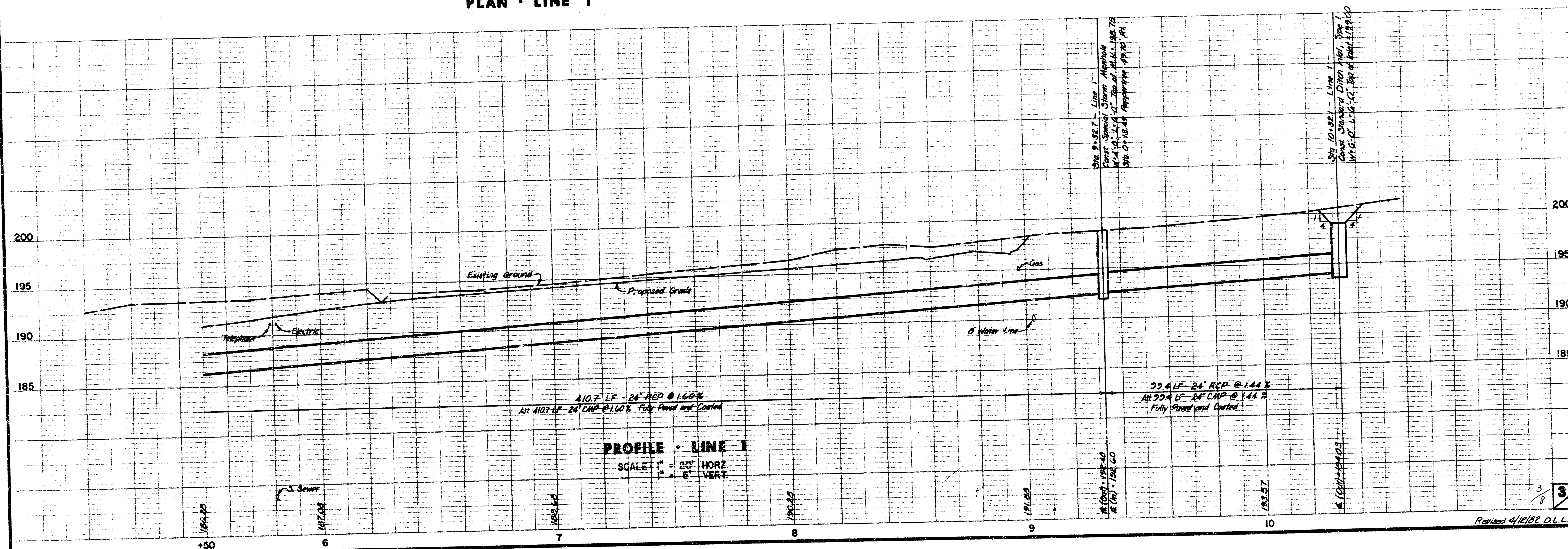
WOODLANDS EAST
STORM DRAINAGE
PROJ. NO. 46876245-81158-000-000-001



SCALE: 1" = 20'



PLAN - LINE 1



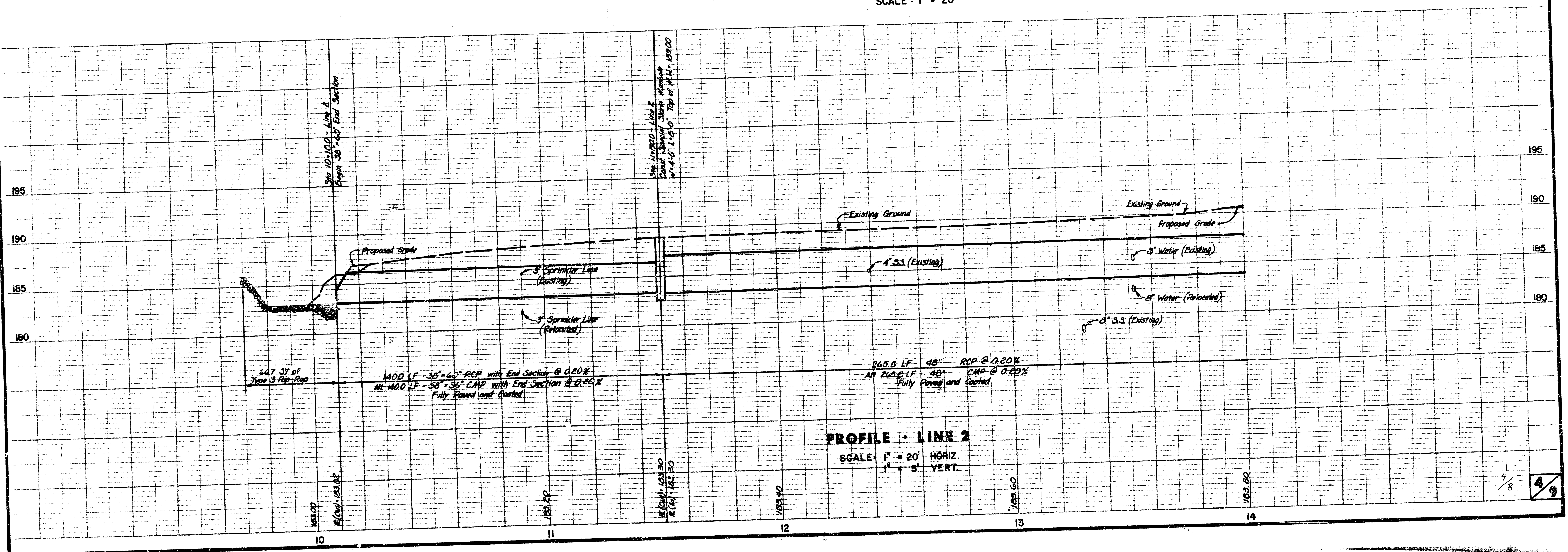
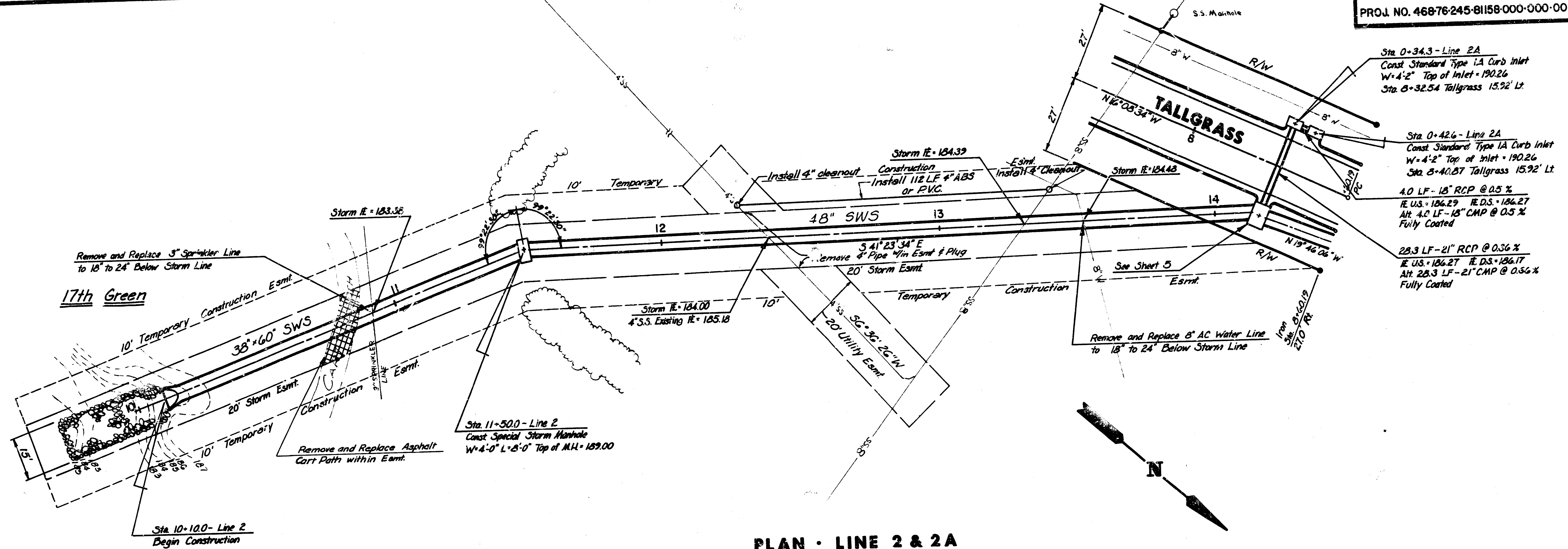
PROFILE - LINE 1

SCALE: 1" = 20' HORIZ.
1" = 8' VERT.

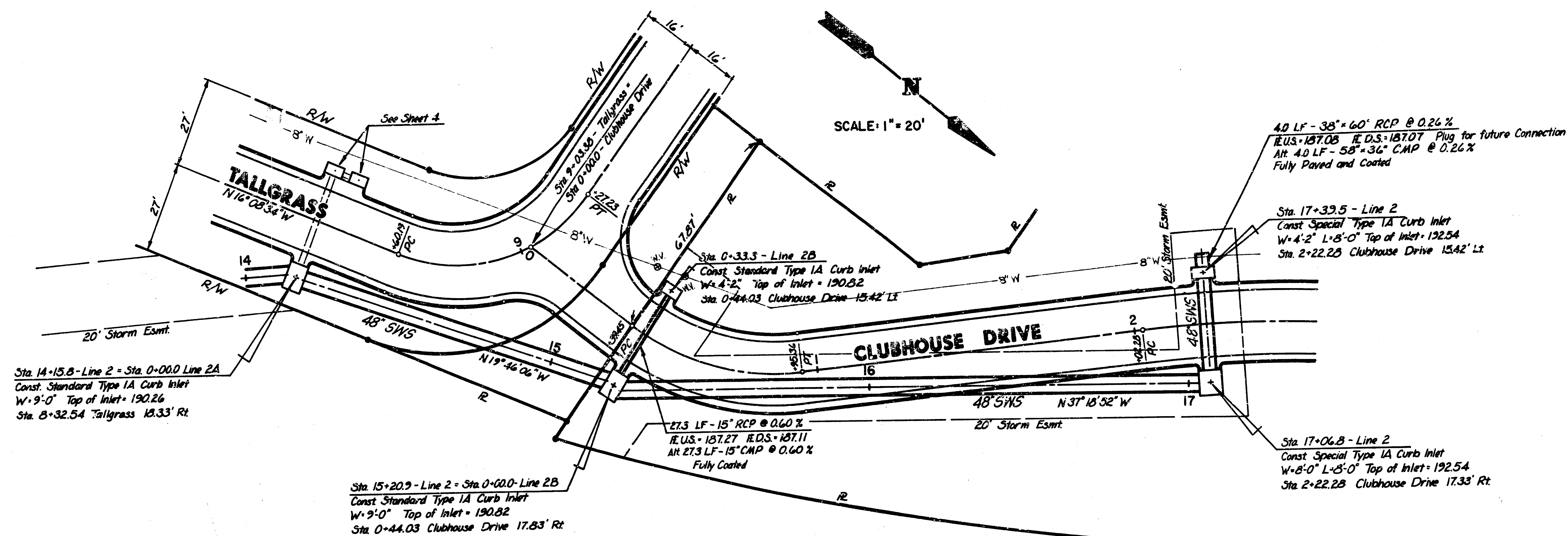
Revised 4/10/02 D.L.L.

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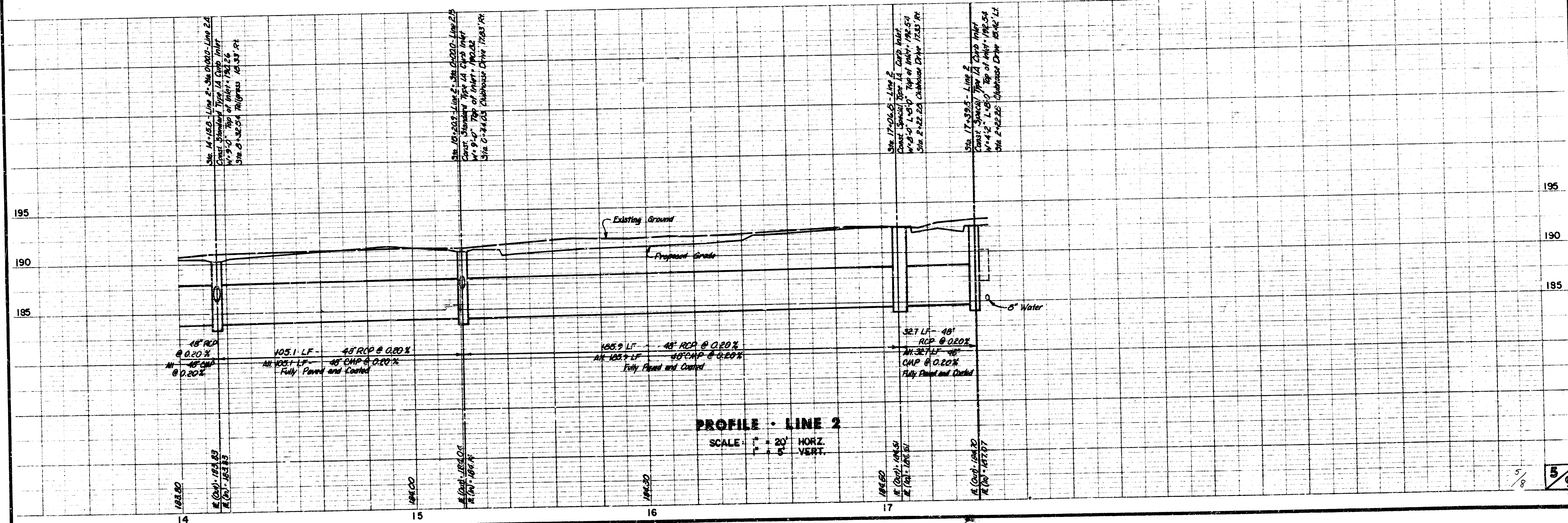
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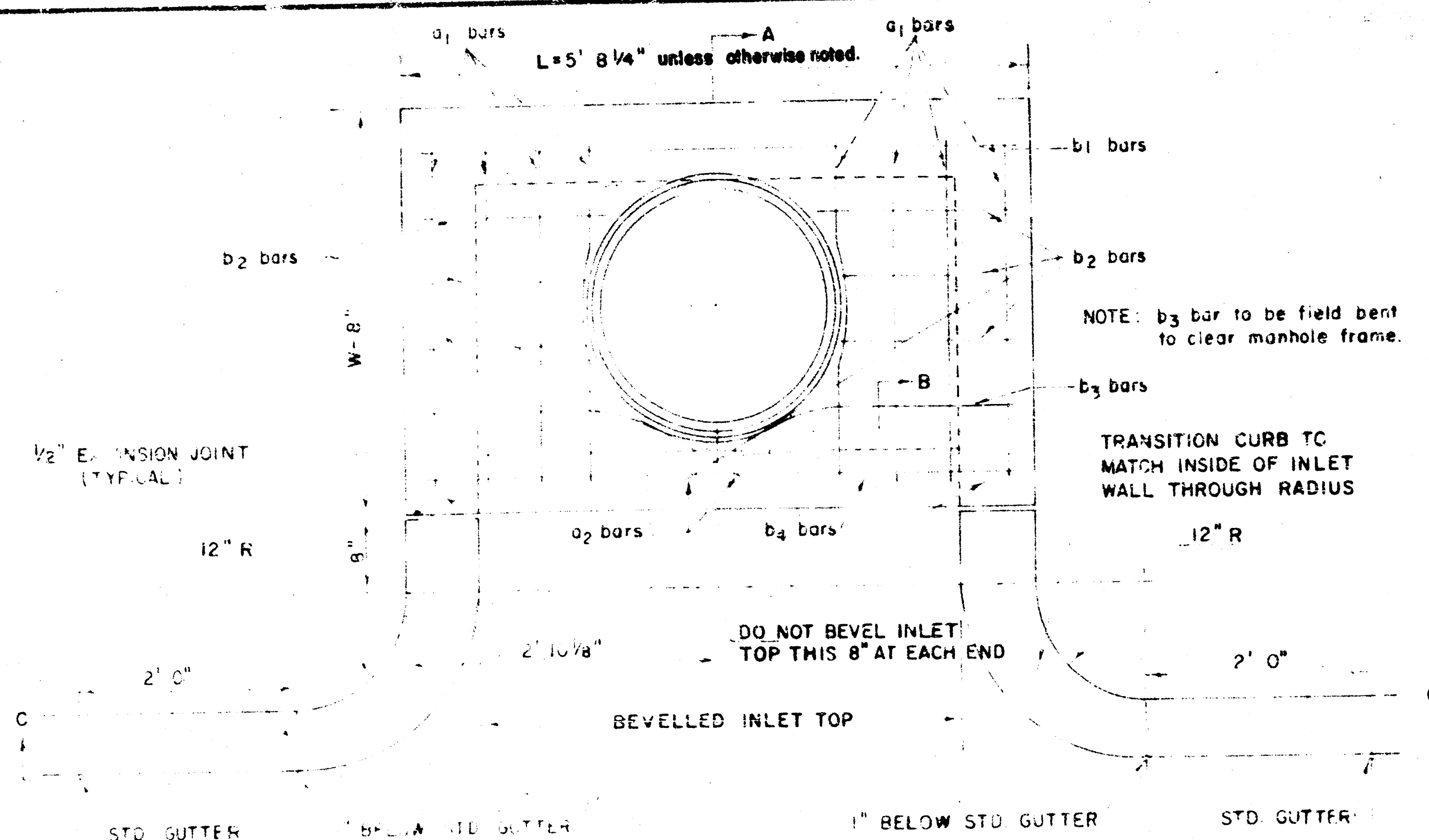


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PLAN - LINE 2, & 2B





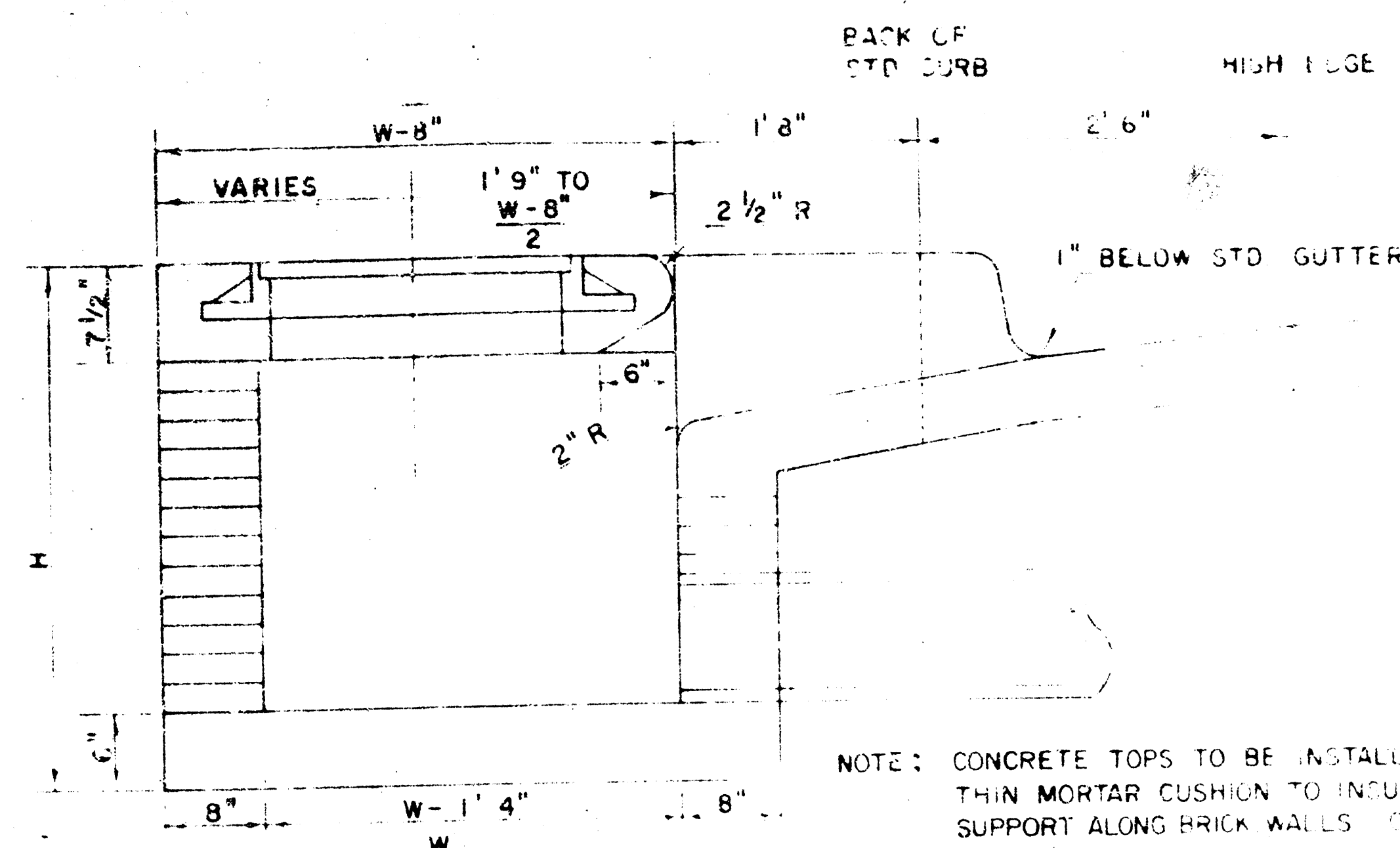
STEEL SCHEDULE

BAR NUMBER	a_1	a_2	b_1	b_2	b_3	b_4	WT. LBS.
1	1	2	3	4	5	6	
SIZE	"	"	"	"	"	"	
W=4'2"	6'5"	3'4"	5'5"	-	-	-	60*
W=5'0"	8'1"	4'4"	5'5"	-	-	-	77*
W=6'0"	10'1"	5'4"	5'5"	-	-	-	97*
W=7'0"	11'1"	6'4"	5'5"	-	-	-	111*
W=8'0"	12'1"	7'4"	5'5"	-	-	-	124*

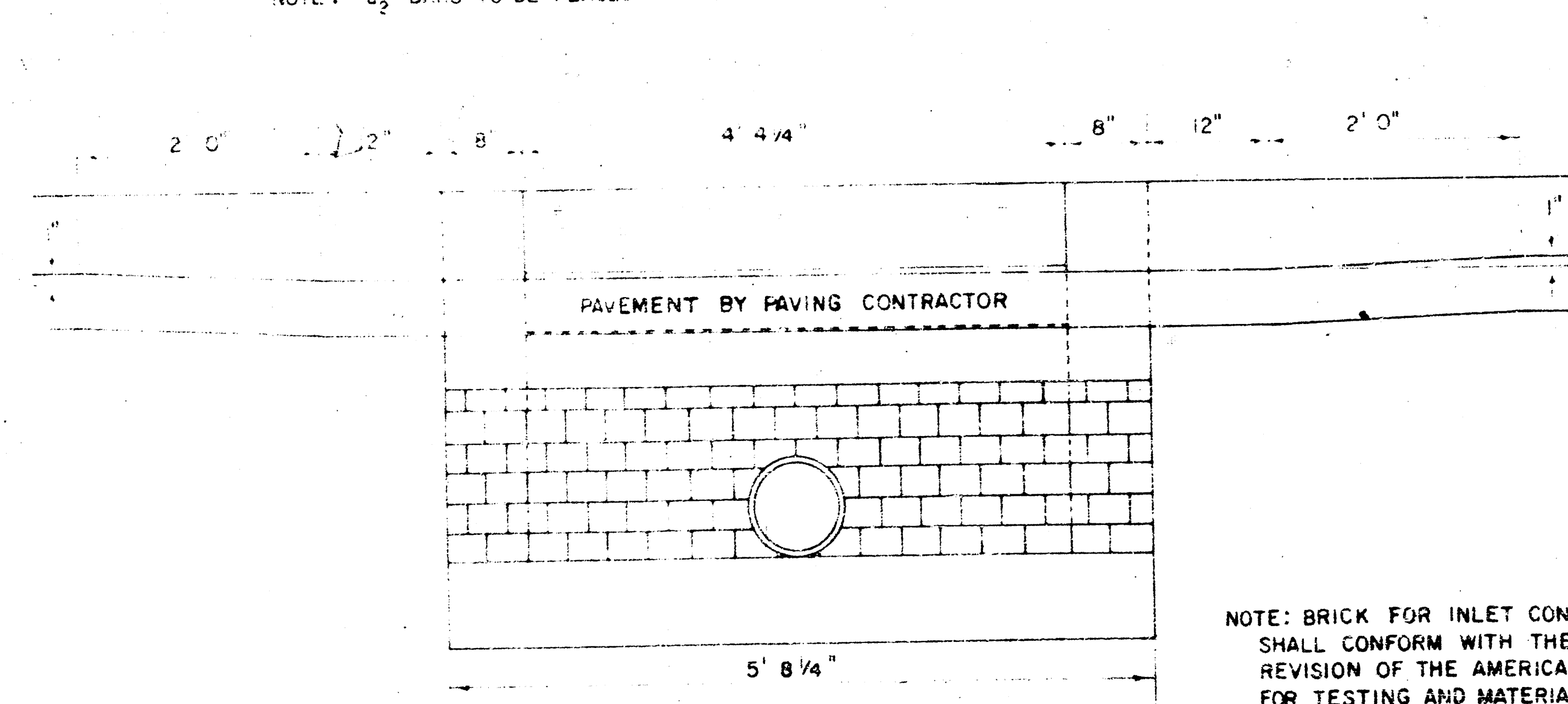
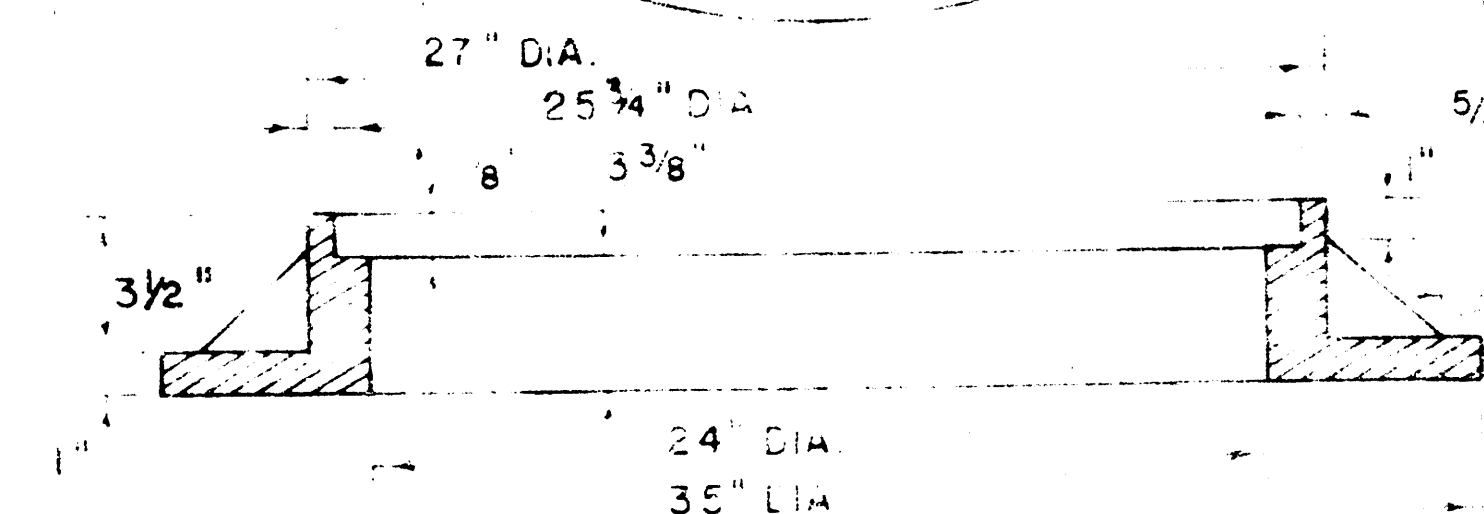
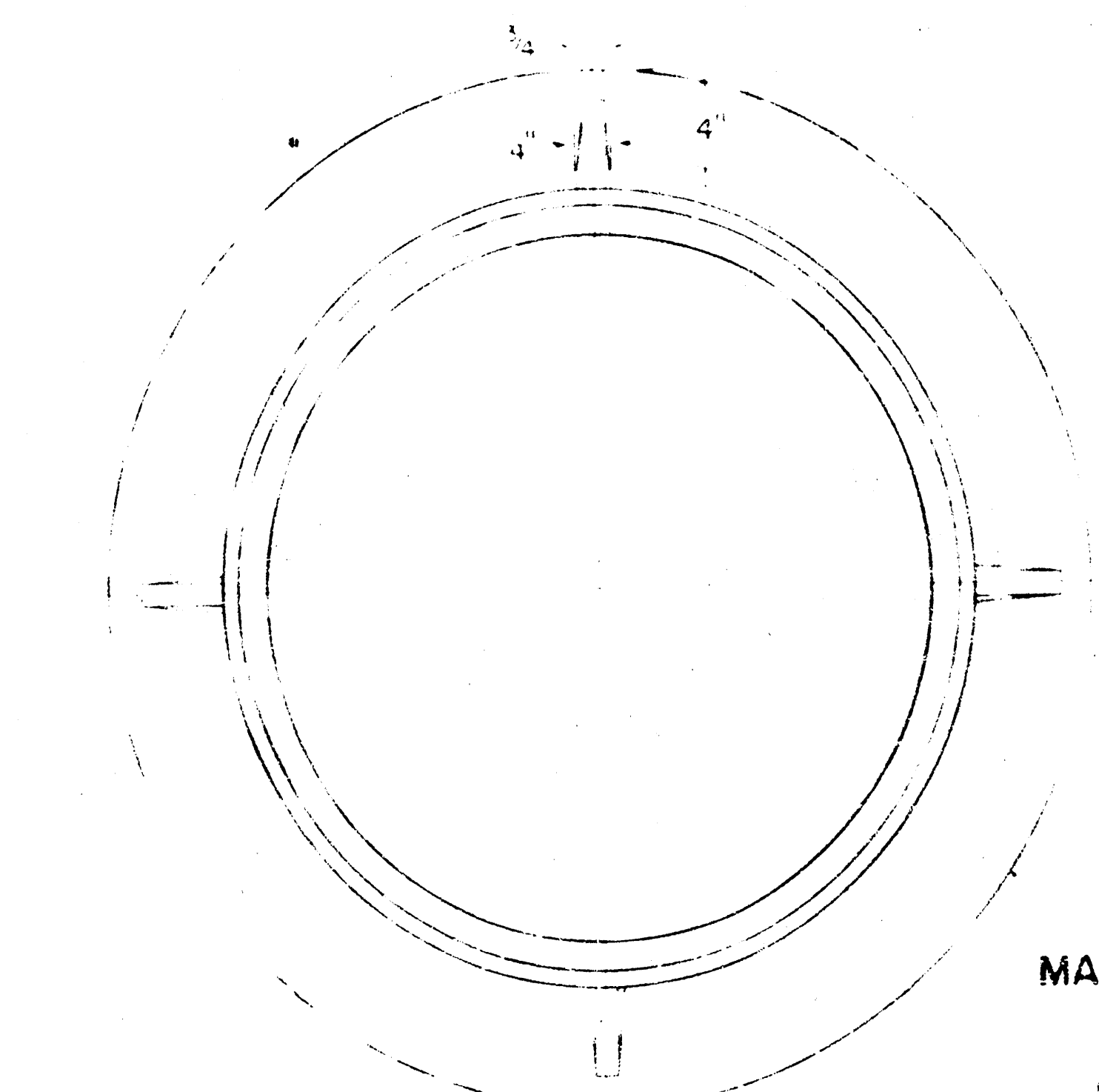
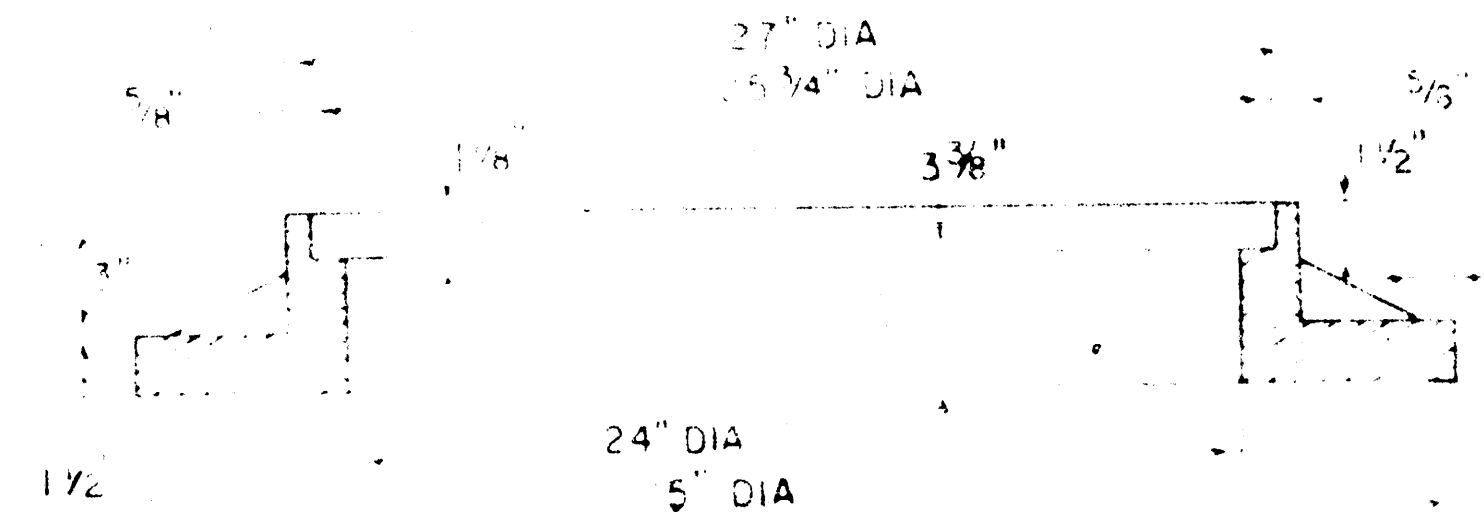
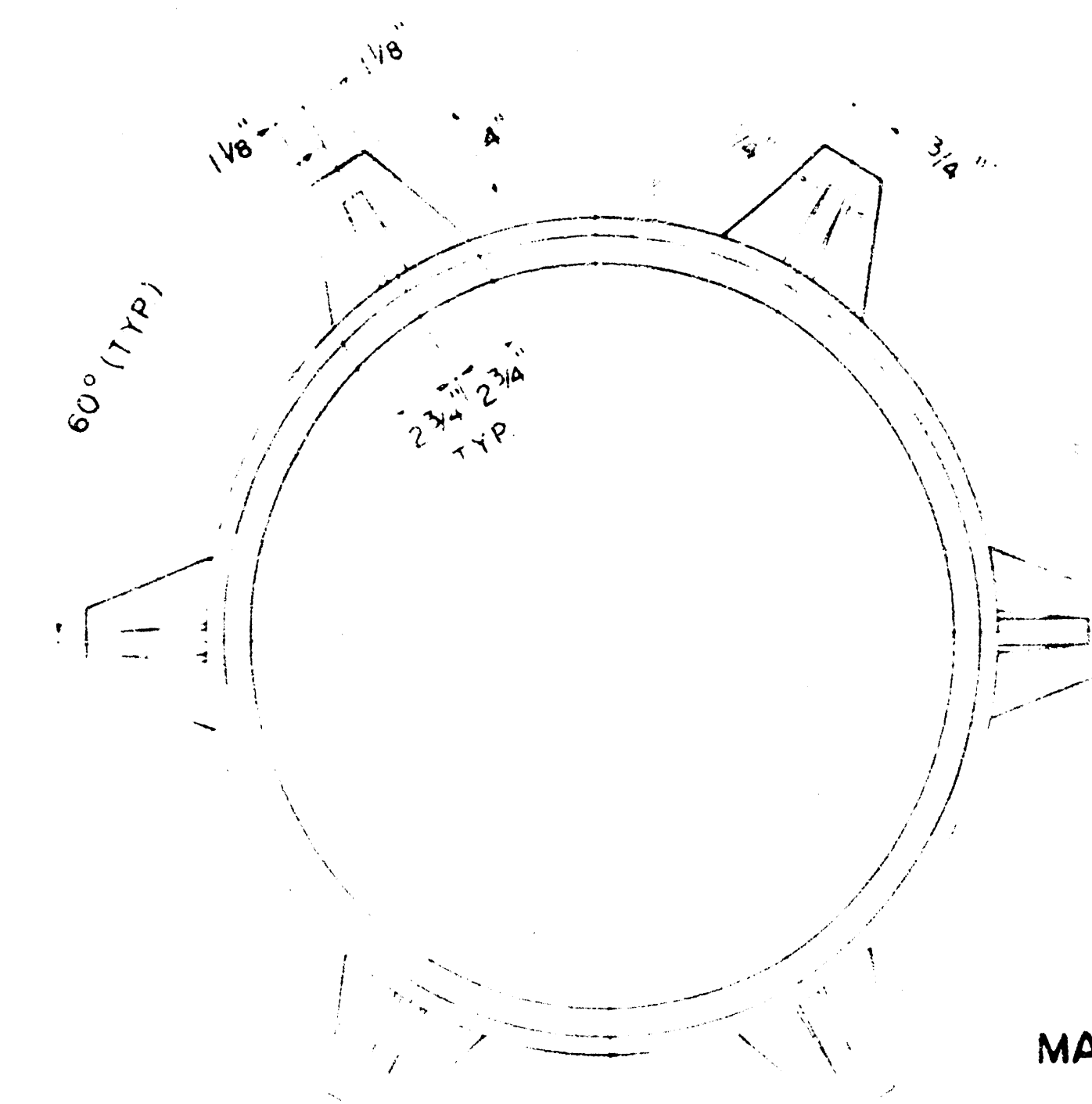
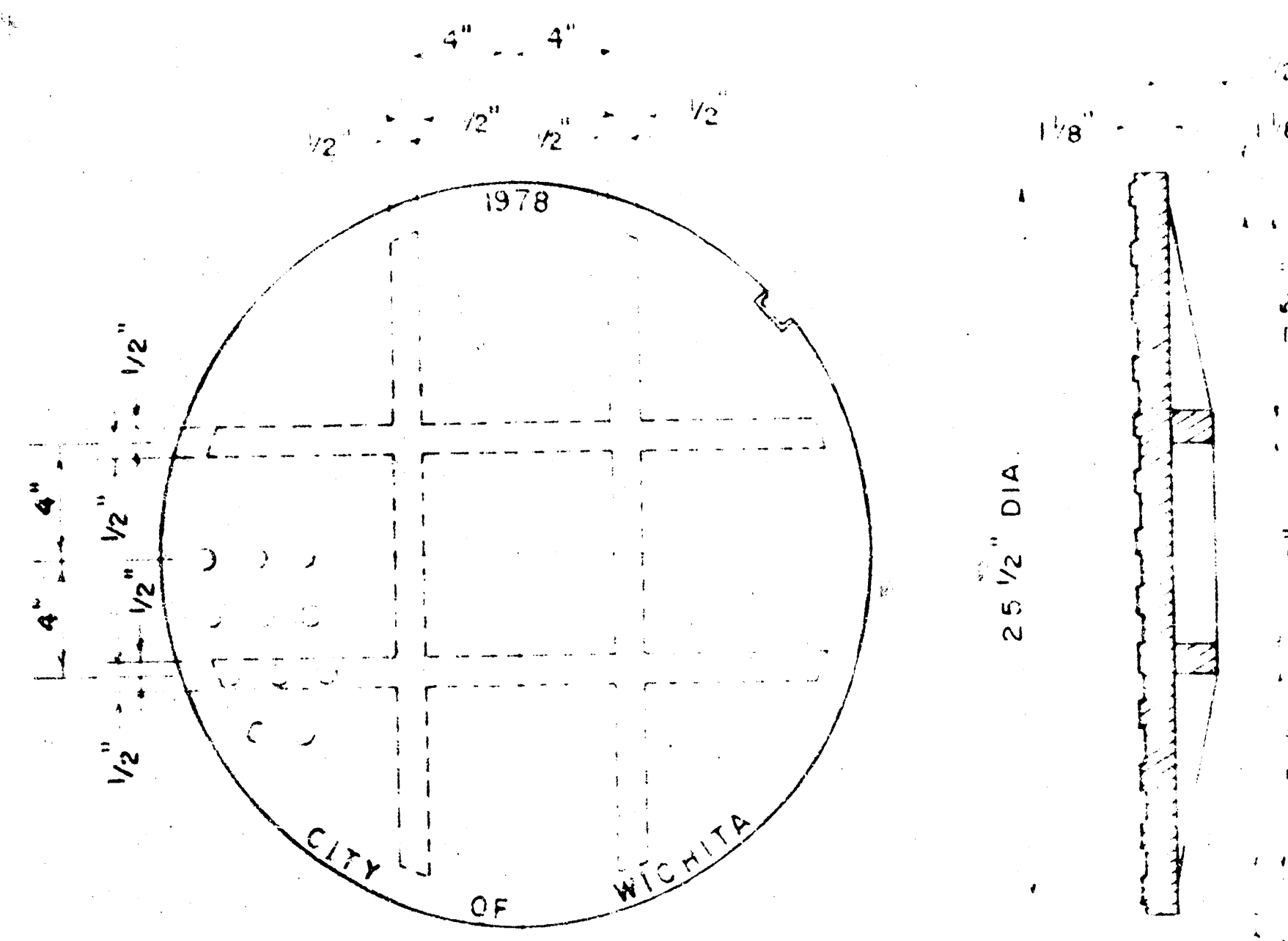
BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD. CONC.
4' 2"	36" x 5' 8 1/4" x 7 1/2"	21" & SMALLER	0.46 *
5' 0"	44" x 5' 8 1/4" x 7 1/2"	24" & 30"	0.57 *
6' 0"	54" x 5' 8 1/4" x 7 1/2"	36" & 42"	0.71 *
7' 0"	64" x 5' 8 1/4" x 7 1/2"	48" & 54"	0.84 *
8' 0"	74" x 5' 8 1/4" x 7 1/2"	60" & 66"	0.97 *

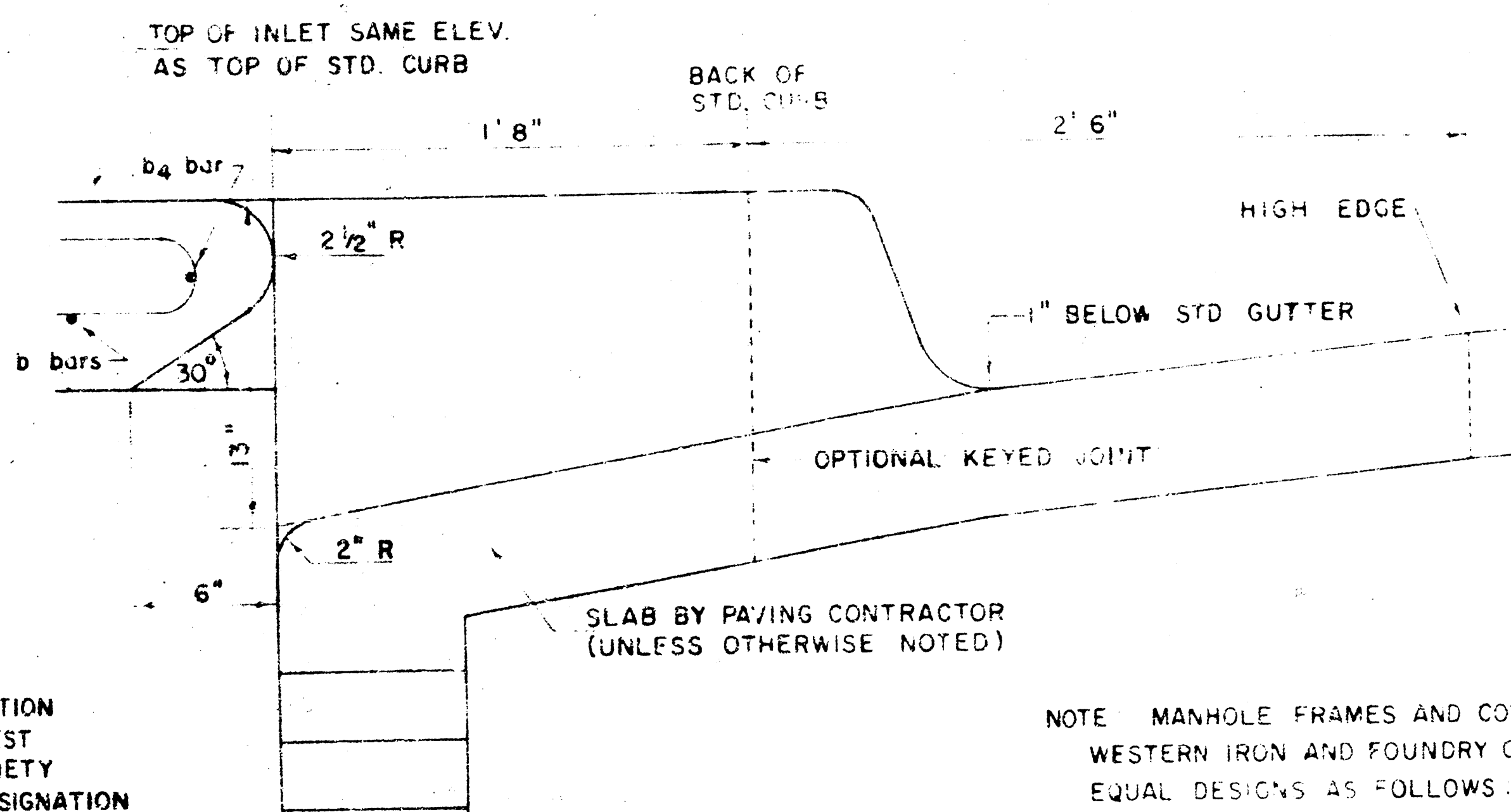
* GROSS VOLUME



SECTION A-A (SCALE 1" = 1'0")



SECTION C-C (SCALE 1" = 1'0")



SECTION B-B (SCALE 1" = 6")

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER
JUNE, 1981

TALLGRASS CLUBHOUSE

[illegible]

Now all men by these presents that we the undersigned property owners of the land as above described in the Civil Engineers' Certificate have caused the same to be surveyed and platted into a lot and a block, the same to be known as "Highway Clubhouse", an addition to Wichita, Sedgewick County, Kansas. Case- ments for the construction and maintenance of public utilities as indicated on the accompanying plat are hereby granted.

[illegible]

APPOINTMENT EXPIRES: FEB 5 1981

Mayor

City Clerk

1981. April day of 19 and year

Chairman

Chairman

Commissioner

Attest: Dorothy K. White
County Clerk

1881 _____ to sub _____ and brood record this

[illegible]

STATE OF KANSAS

COUNTY OF SEDGWICK 22:

his is to certify that this instrument was filed for records in the Register

Registered of State of N. Carolina

for 4000

