

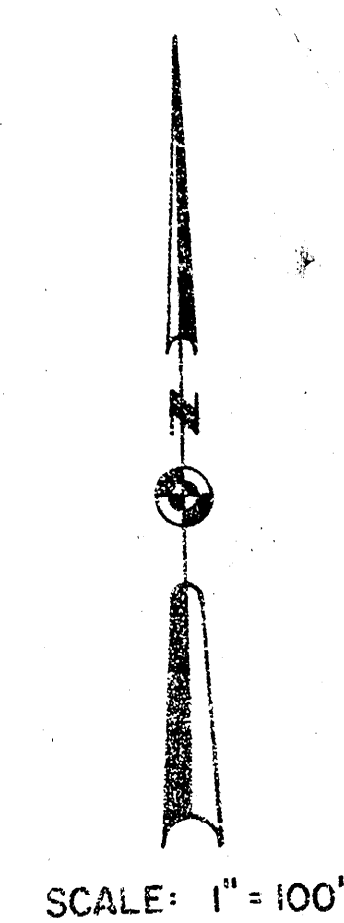
S.W.S. NO. 176 STORM SEWERS IN THE PARK

PROJECT NO.
468-76-245-80882-000-000-001

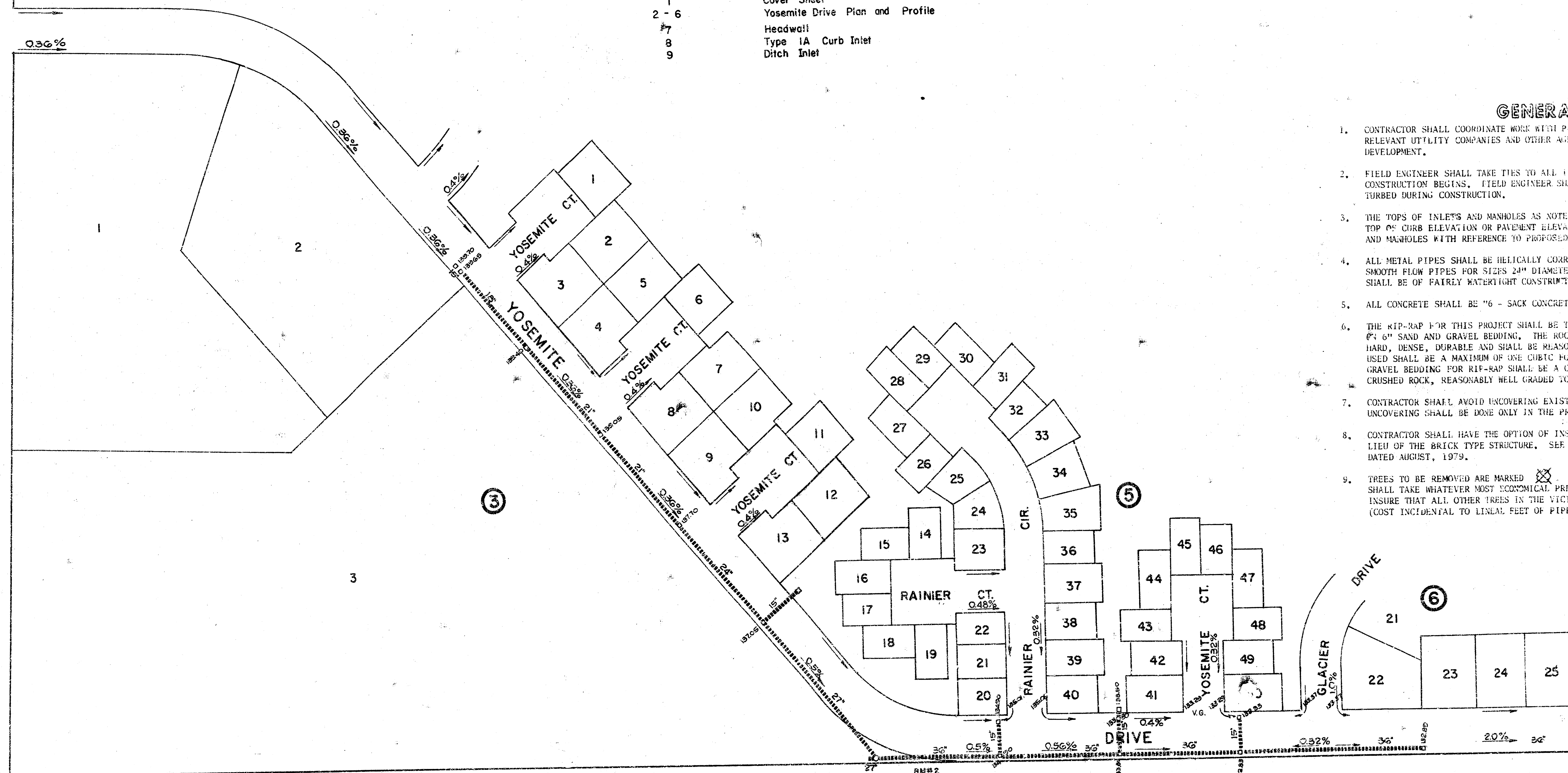
CITY OF WICHITA, KANSAS
DEAN SELLERS, ACTING CITY ENGINEER

INDEX TO DRAWINGS

SHT. NO.	DESCRIPTION
1	Cover Sheet
2-6	Yosemite Drive Plan and Profile
7	Headwall
8	Type 1A Curb Inlet
9	Ditch Inlet



BM#1
R.R. Spike E. 1/4 PP
E. side Maize Rd. on S. line
Sherwood St. Elev. = 144.01



BM#2
R.R. Spike top mulberry stump
In E-W 1/4 Sec. 5, T28, R1W
NW 1/4 Sec. 5, T28, R1W Elev. = 139.58

BM#3
R.R. Spike N.E. fence post
40' W. of Center Sec. 5, T28, R1W
Elev. = 128.41

GENERAL NOTES

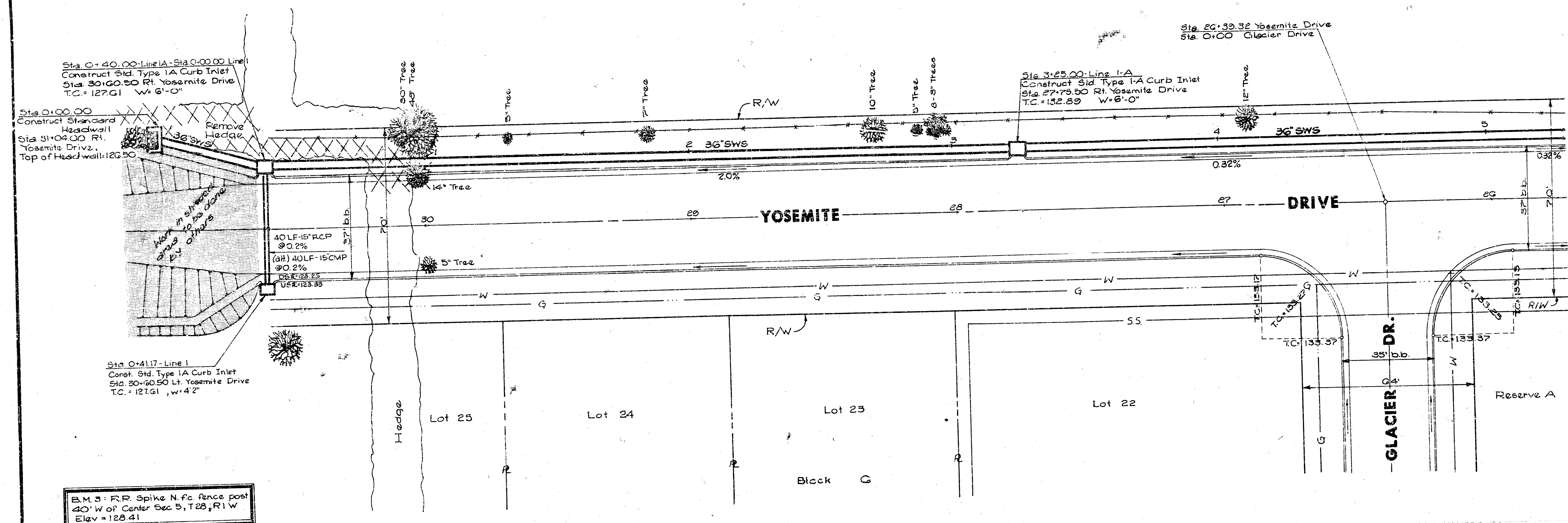
- CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT SITE DEVELOPMENT.
- FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THUMBIES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THUMBIES DISTURBED DURING CONSTRUCTION.
- THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATION OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
- ALL METAL PIPES SHALL BE HELICALLY CORRUGATED PIPE. ALL CORRUGATED PIPE SHALL BE SMOOTH FLOW PIPES FOR SIZES 24" DIAMETER AND LARGER. ALL CONNECTIONS FOR THESE PIPES SHALL BE OF FAIRLY WATERLIGHT CONSTRUCTION USING HUGGER TYPE COUPLERS OR EQUAL.
- ALL CONCRETE SHALL BE "6 - SACK CONCRETE" UNLESS OTHERWISE NOTED.
- THE RIP-RAP FOR THIS PROJECT SHALL BE TYPE 3. THE TYPE 3 RIP-RAP SHALL BE 1 1/2" RIP-RAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIP-RAP 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 6" SAND AND GRAVEL BEDDING FOR RIP-RAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2" IN SIZE.
- CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATER LINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.
- 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.
- TREES TO BE REMOVED ARE MARKED WITH AN 'X'. ALL OTHER TREES ARE TO BE SAVED. CONTRACTOR SHALL TAKE WHATEVER MOST ECONOMICAL PRECAUTIONS THE SITE ENGINEER DEEMS NECESSARY TO INSURE THAT ALL OTHER TREES IN THE VICINITY OF CONSTRUCTION ARE PROTECTED FROM INJURY (COST INCIDENTAL TO LINEAL FEET OF PIPE).



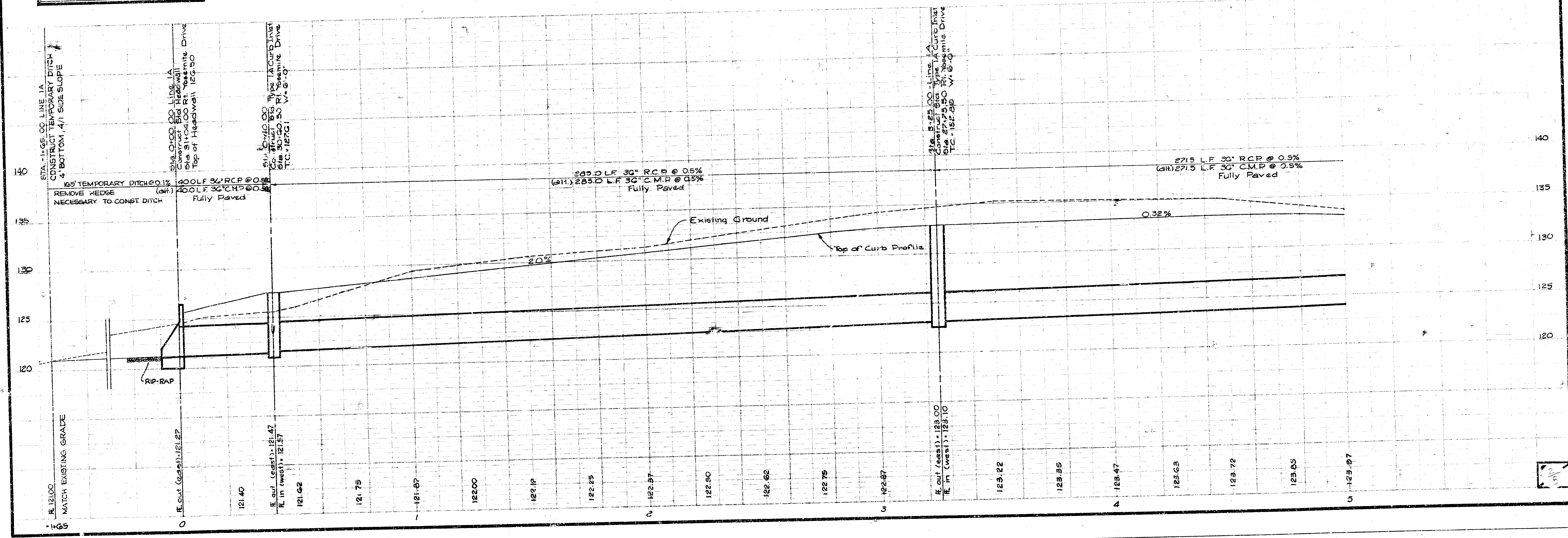
Van Doren - Hazard - Stallings

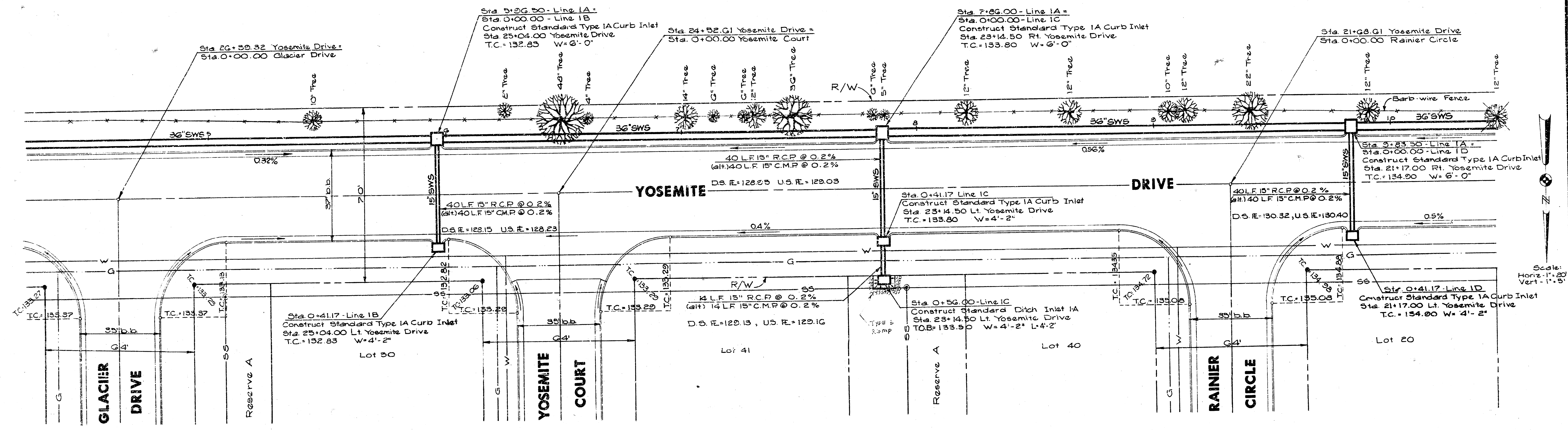
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Sheet 1
of 5

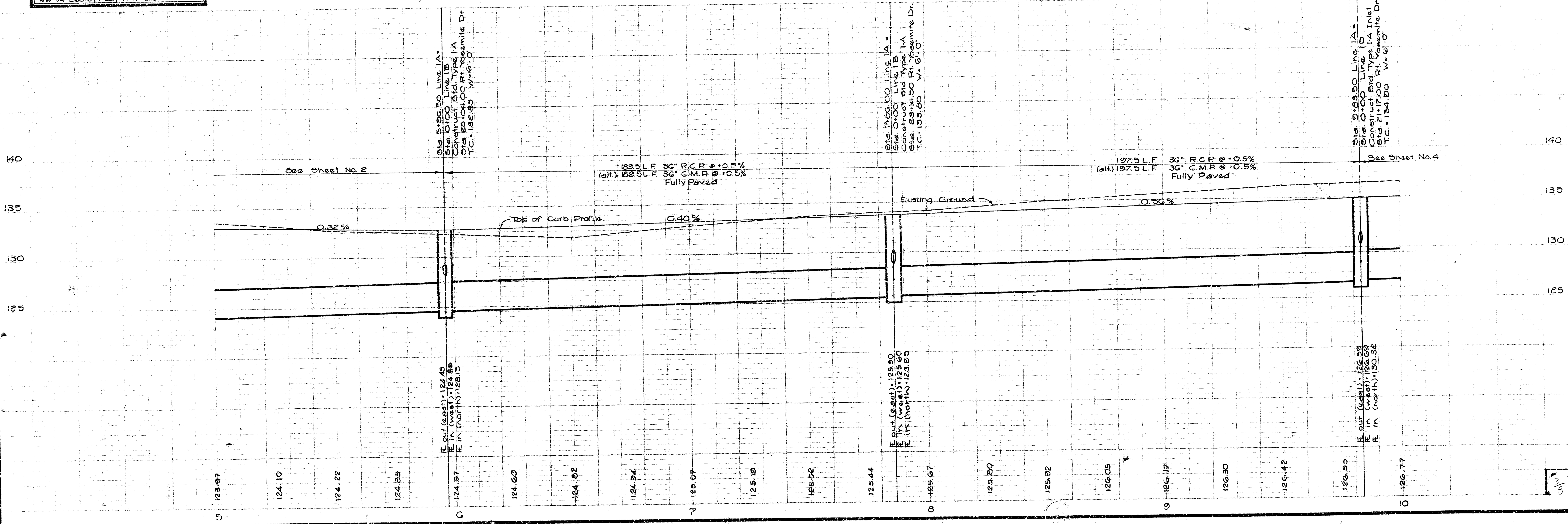


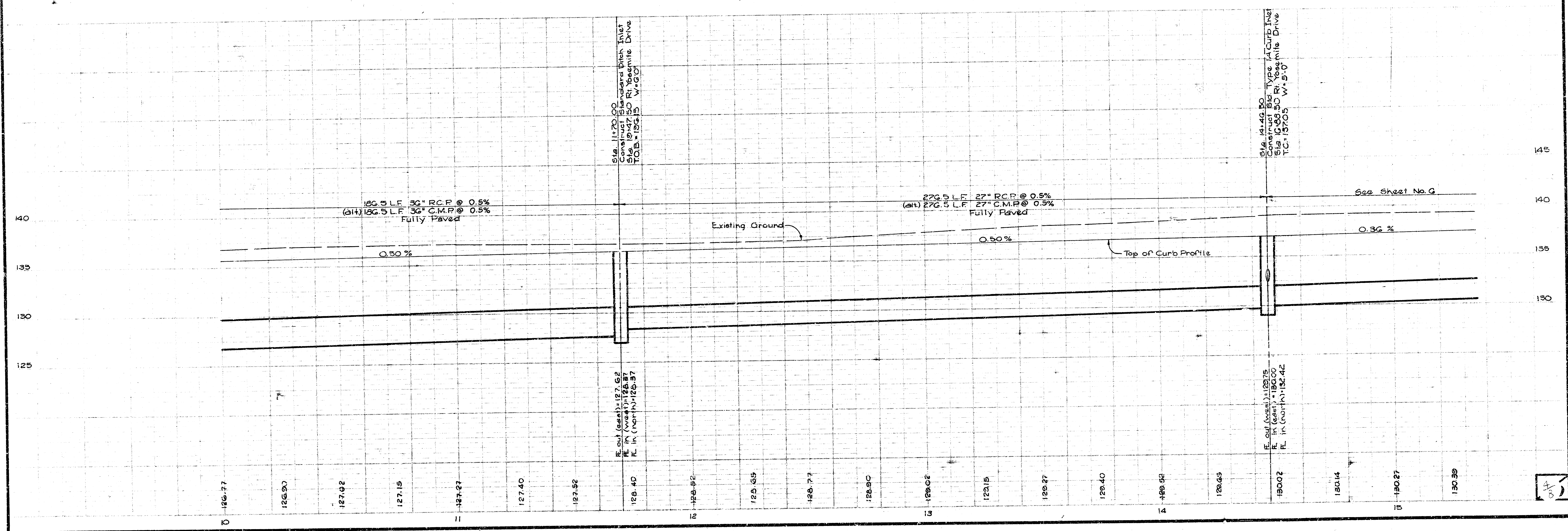
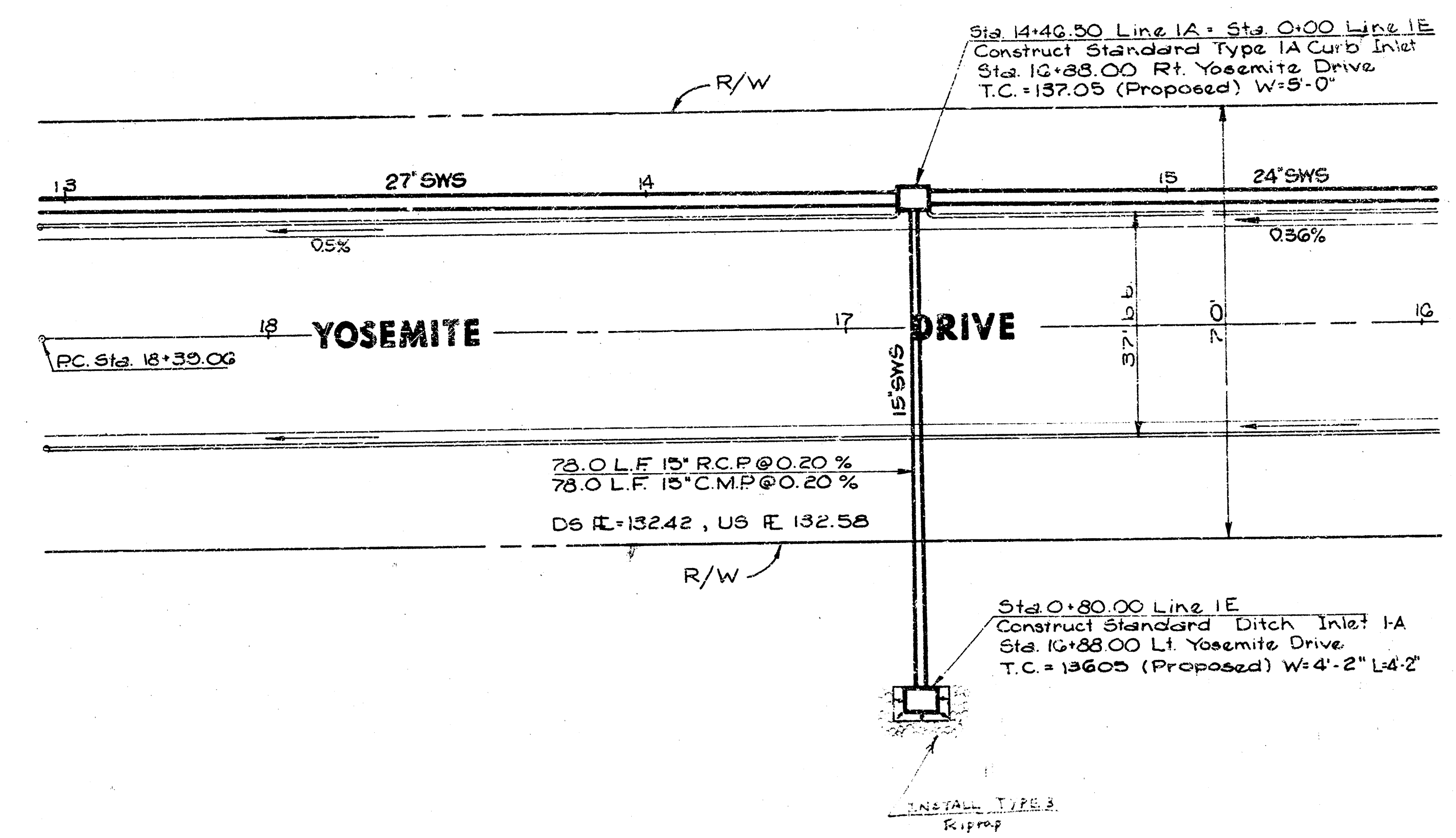
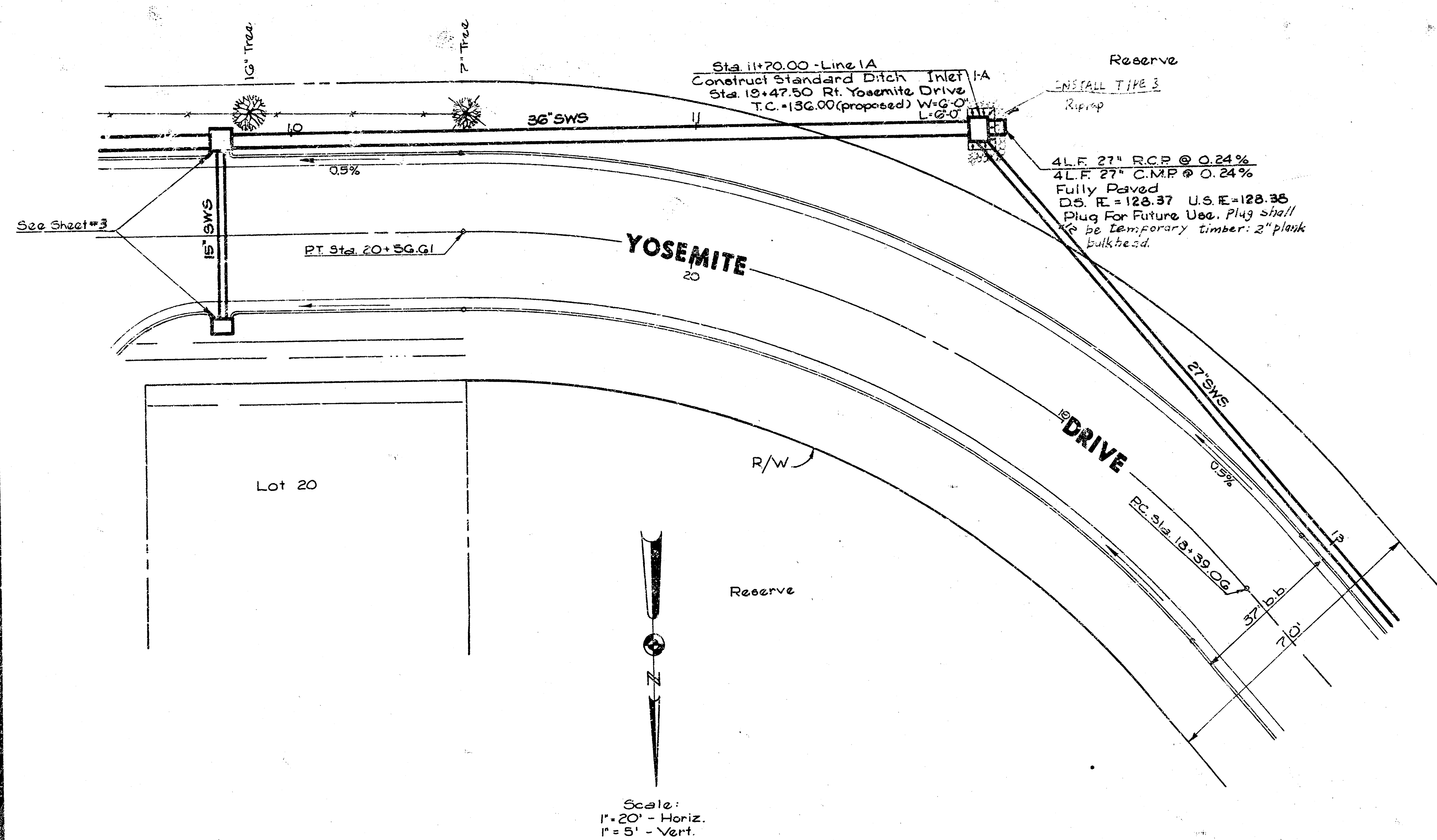
Scale:
Horiz. - 1" = 20'
Vert. - 1" = 5'

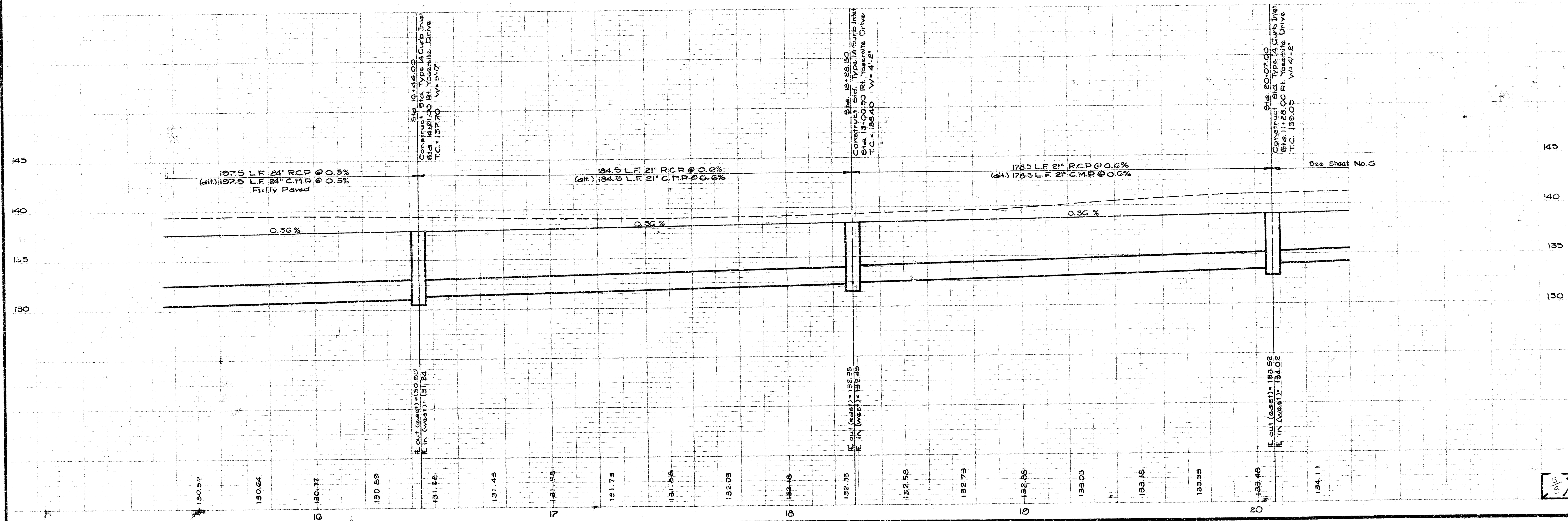
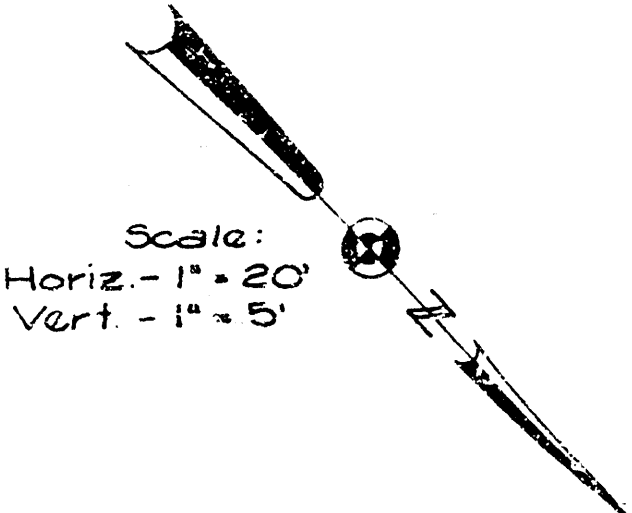
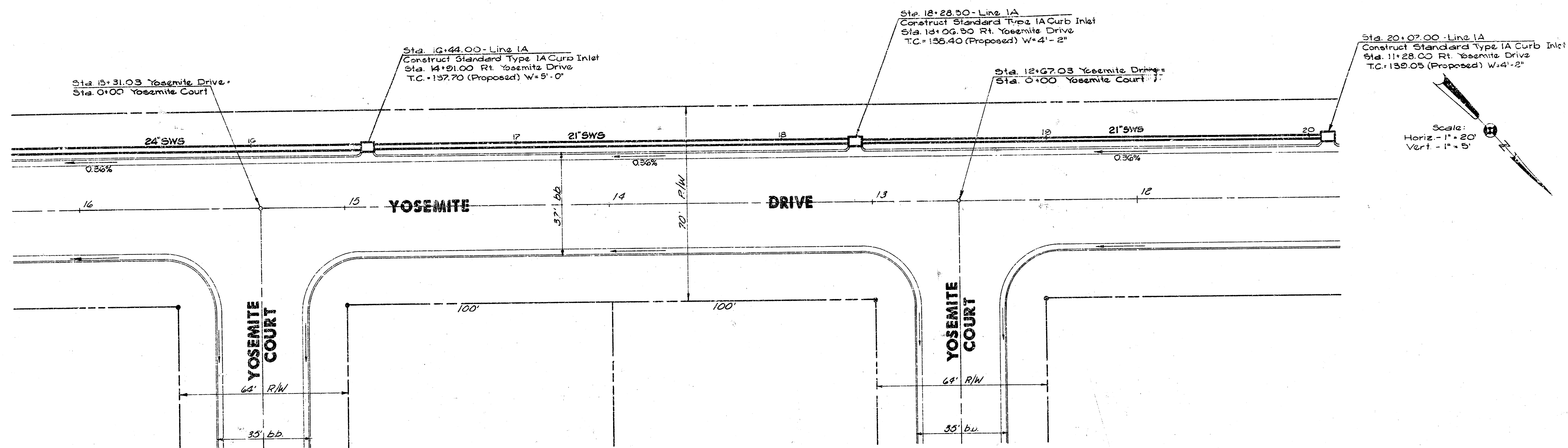


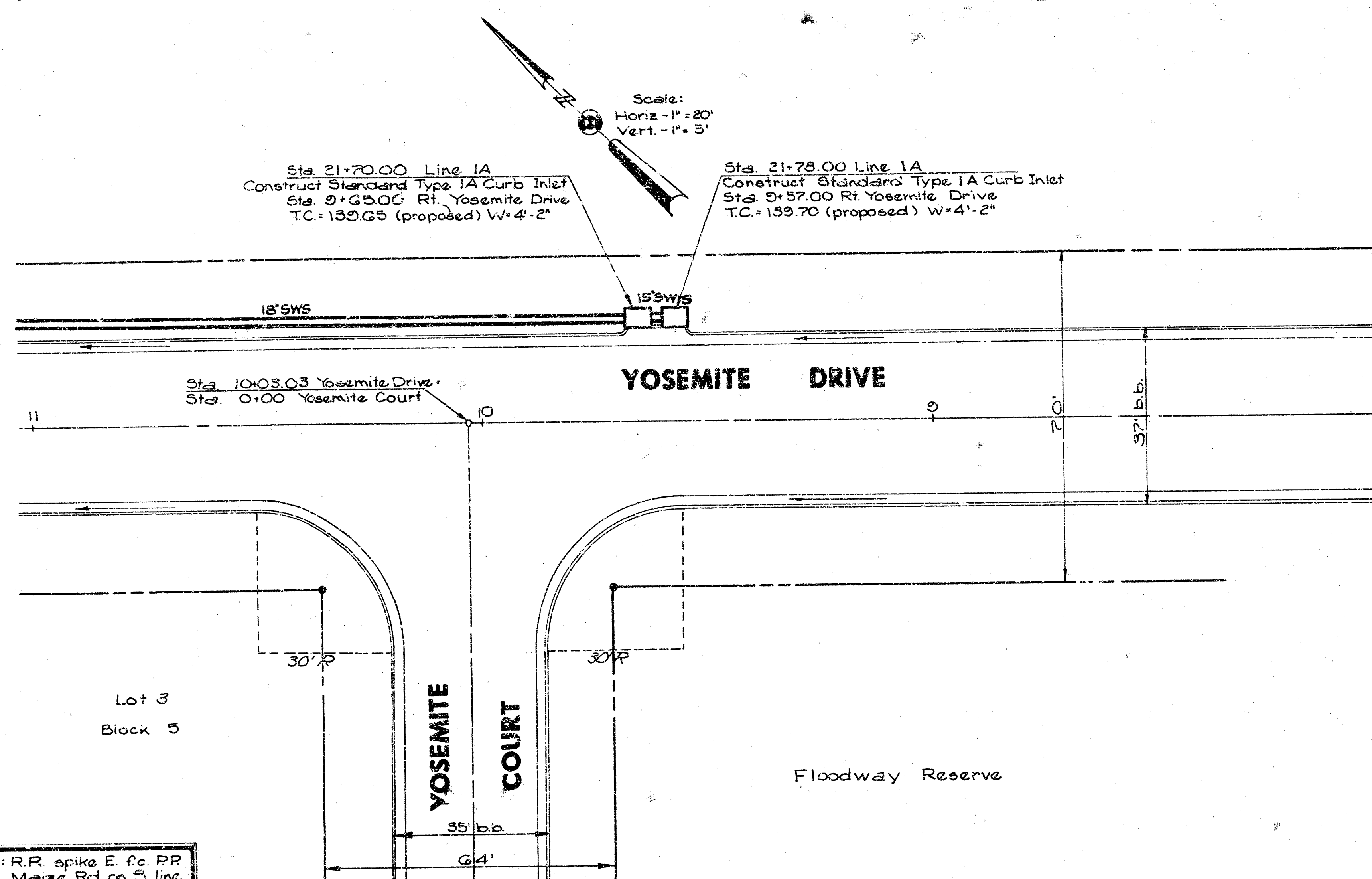


RR spike top mulberry stump
in 1000 ft. W of SE Corner
NW 1/4 Sec. 5, T22, R1W Elev. = 133.58

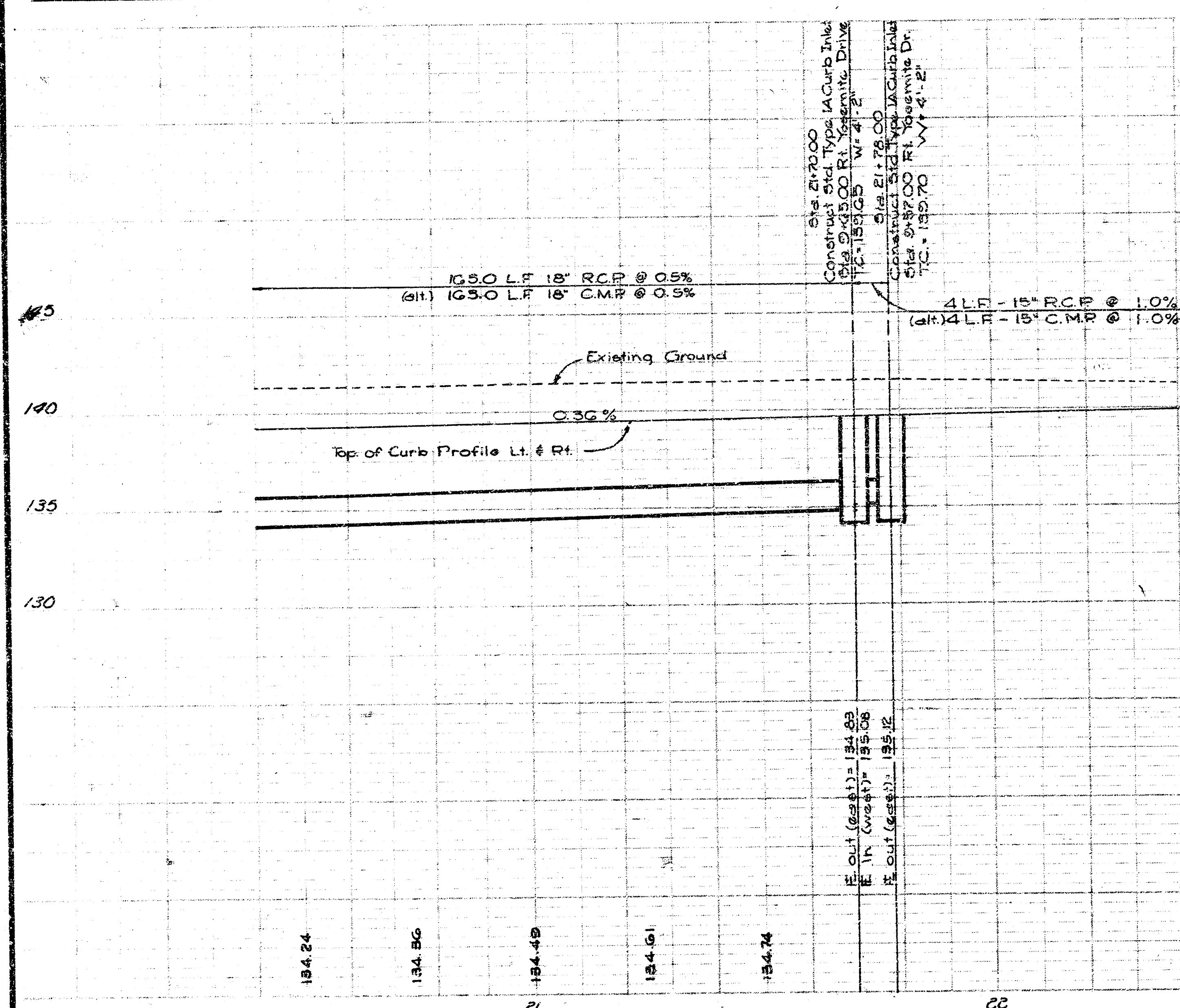






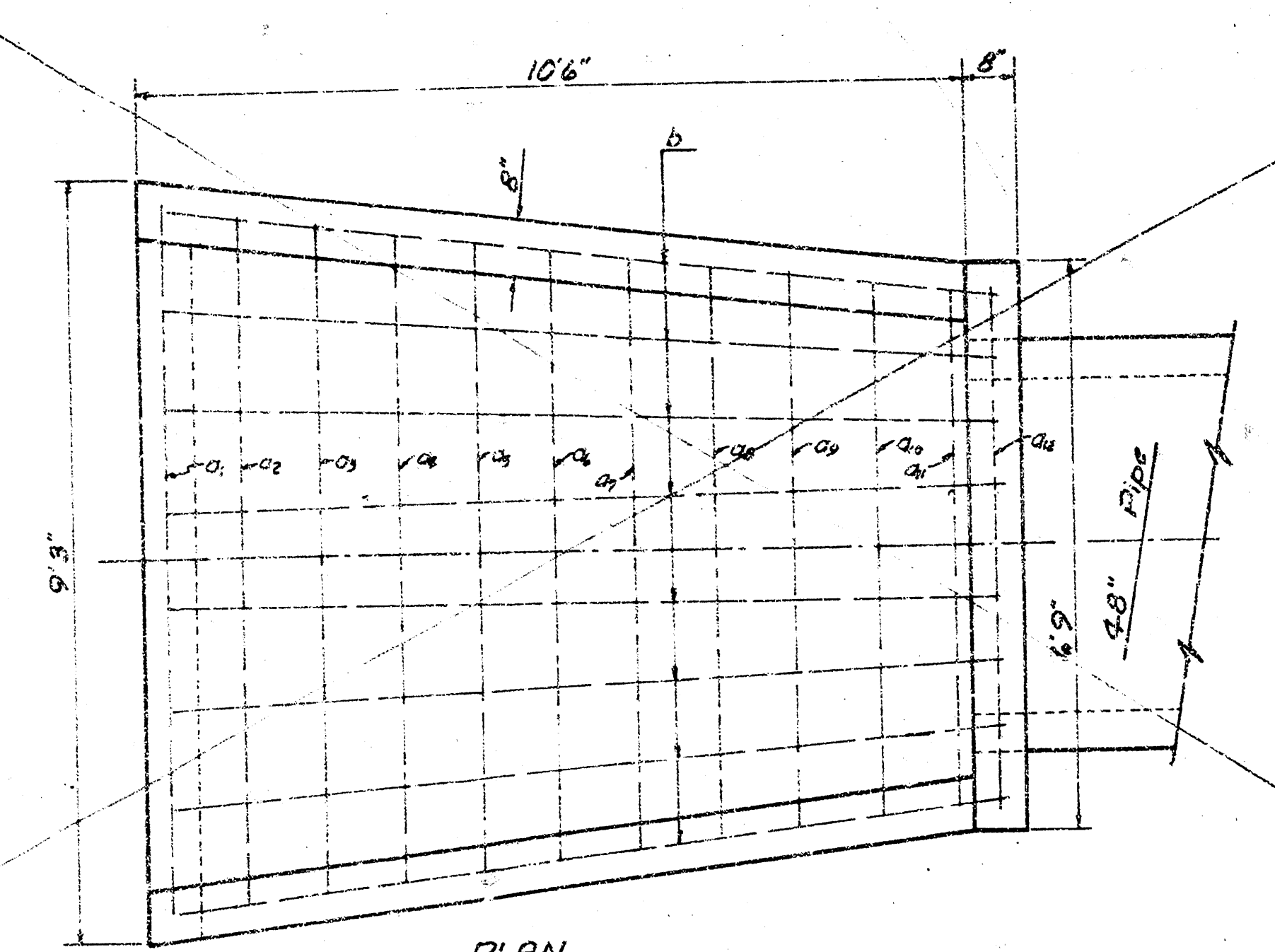


B.M. 1: R.R. spike E. of R.R.
E. side Maize Rd. on S. line
Shenandoah Ct. Elev. 144.0'



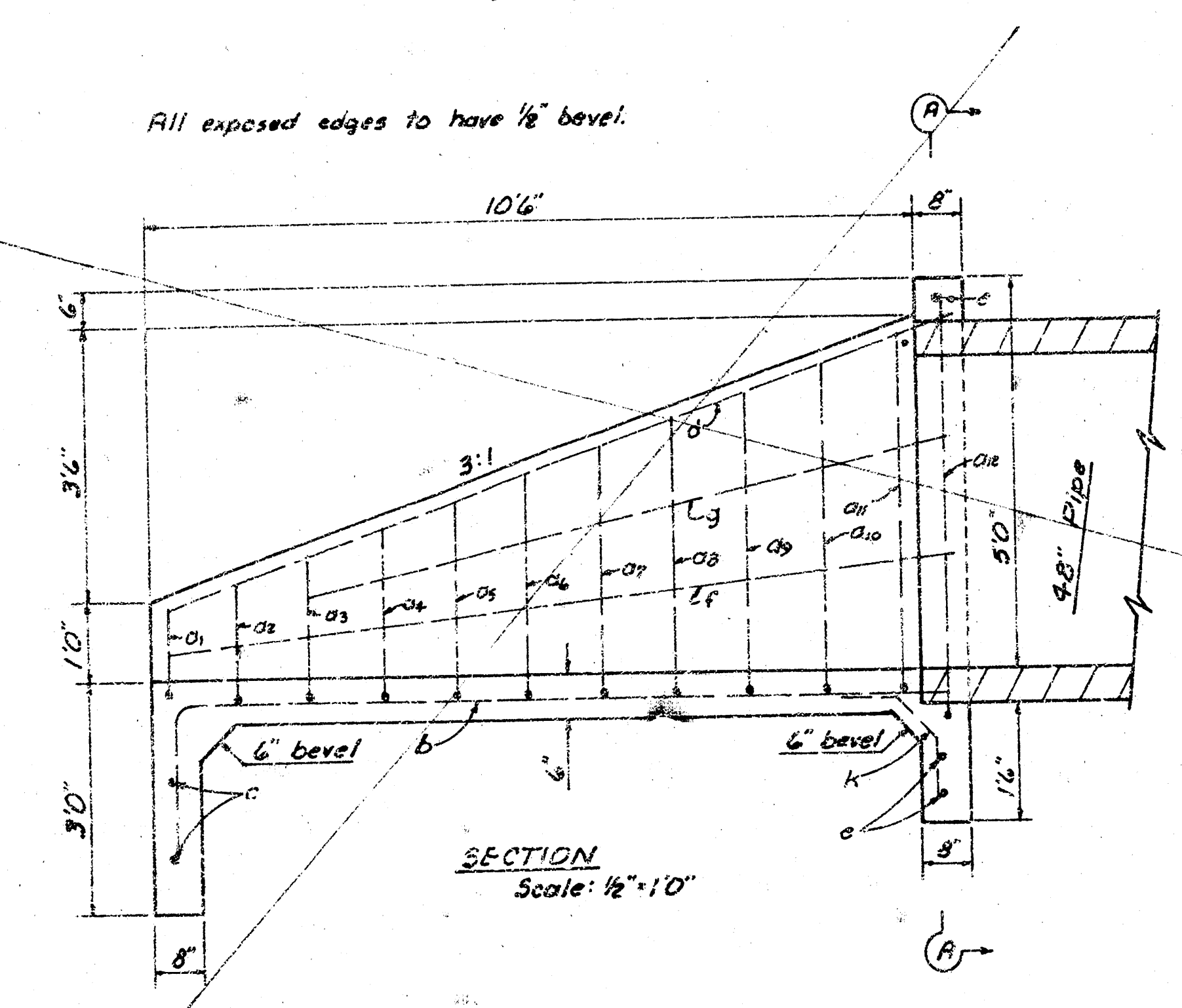
THE PARK

468-76-245-80882-000-000-001

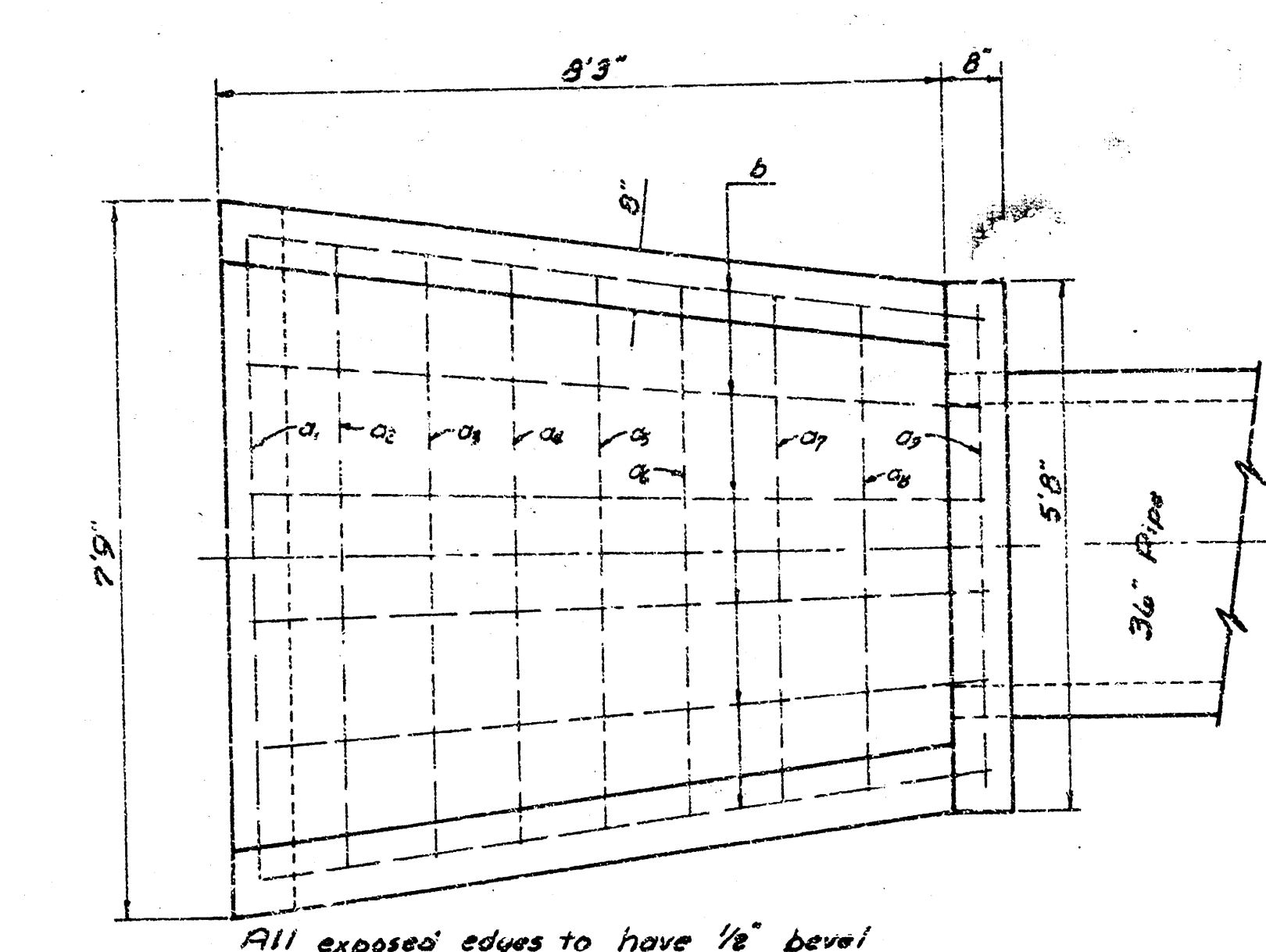
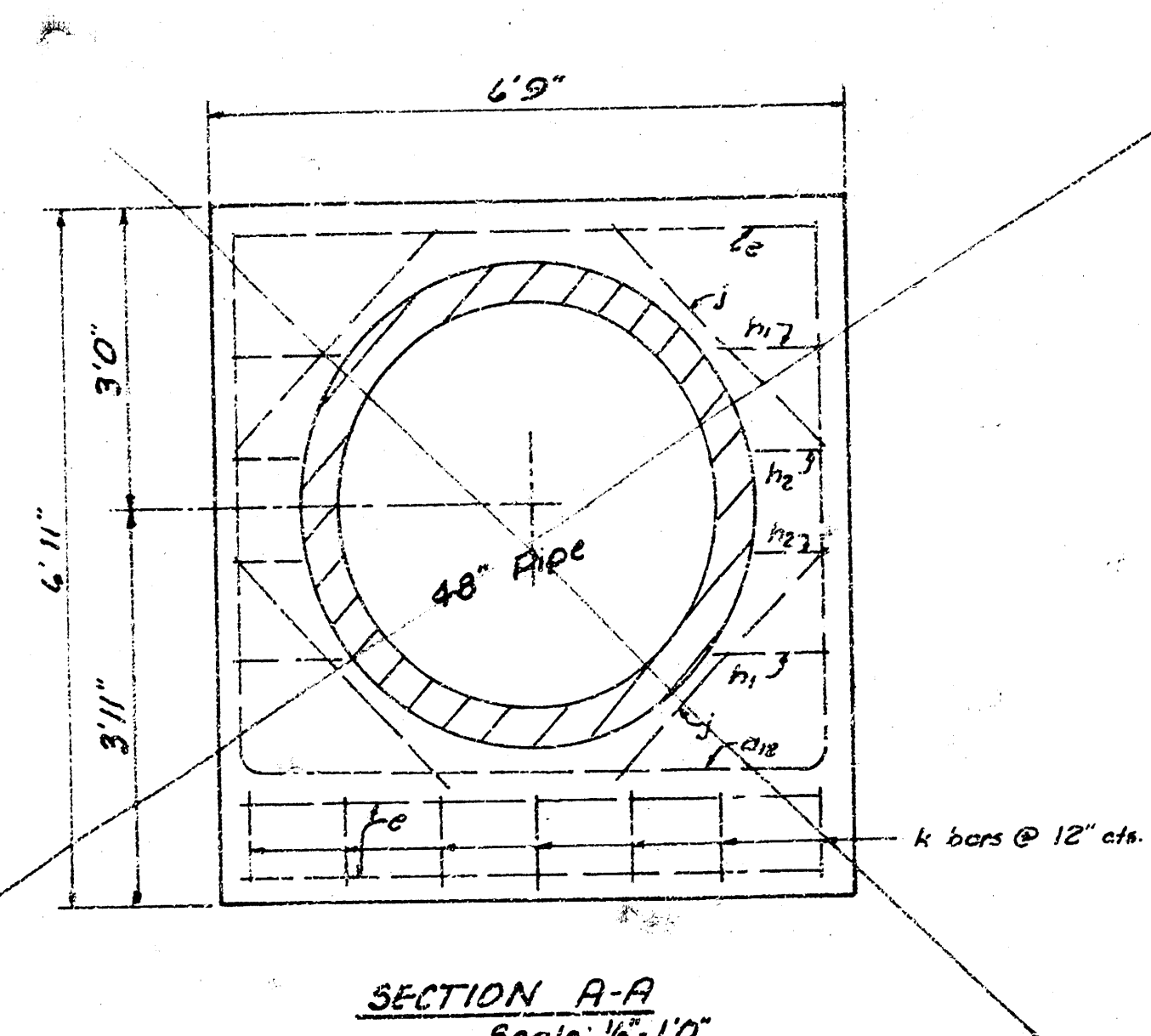


BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	10'10"		7.24
a2	1	11'3"		7.52
a3	1	11'8"		7.79
a4	1	12'1"		8.07
a5	1	12'6"		8.35
a6	1	13'0"		8.63
a7	1	13'5"		8.91
a8	1	13'10"		9.19
a9	1	14'3"		9.47
a10	1	14'8"		9.75
a11	1	15'2"		10.03
a12	1	15'7"		10.31
b	8	12'7"		67.25
c	2	8'6"		11.36
d	2	11'4"		15.36
e	3	1'5"		12.91
f	2	10'9"		14.36
g	2	9'0"		12.08
h	4	1'2"		3.12
i	4	8"		1.78
j	4	3'3"		8.28
k	7	2'6"		11.69
Rebars (lbs)				265.07
Concrete (C.Y.)				4.73

All rebars to be #2

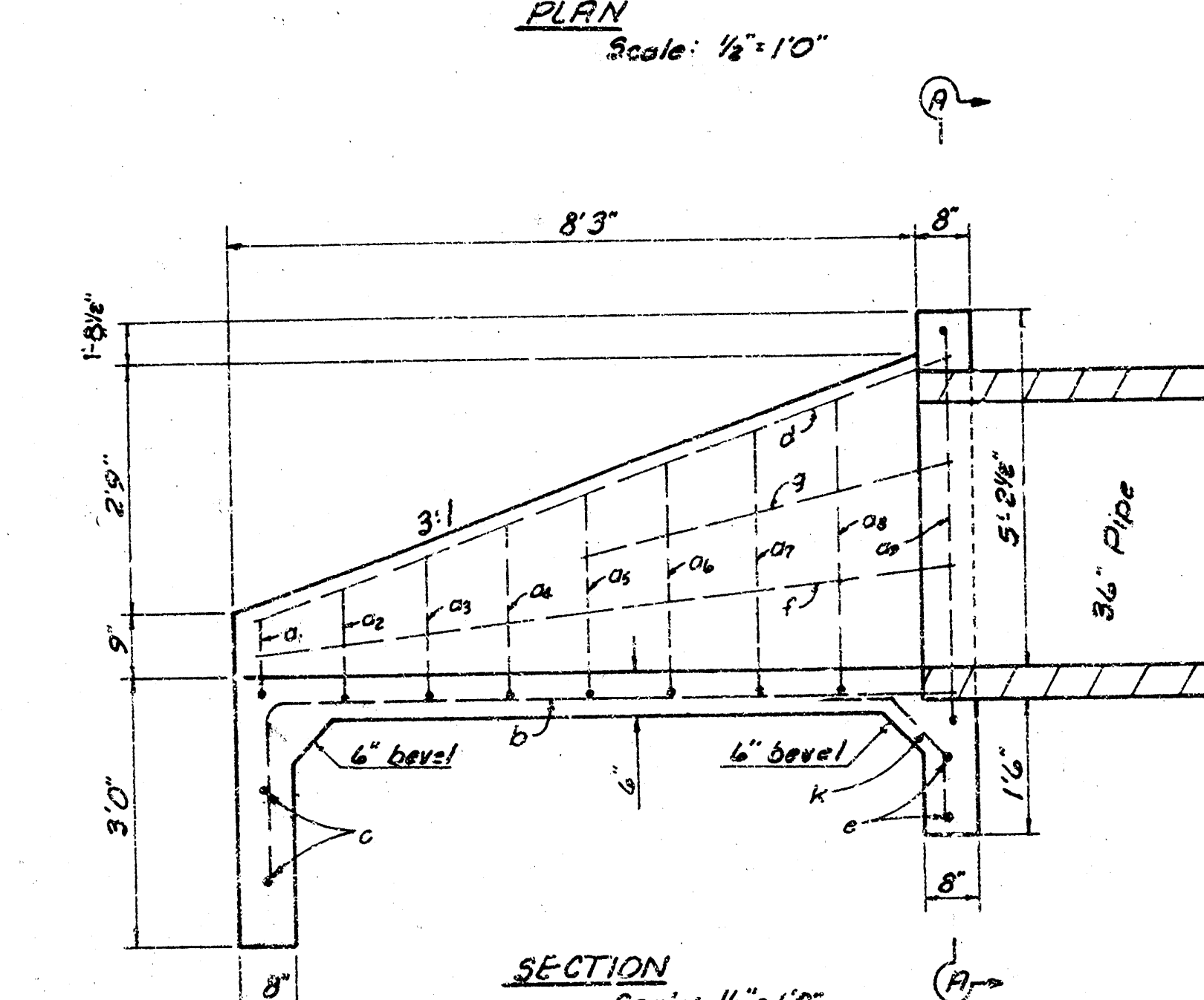


a bars	b bars	k bars
a1 8'6"	b1 10'7"	k1 12"
a2 8'3"	b2 10'7"	k2 11'10"
a3 8'0"	b3 10'7"	k3 11'8"
a4 7'9"	b4 10'7"	k4 11'6"
a5 7'8"	b5 10'7"	k5 11'4"
a6 7'7"	b6 10'7"	k6 11'2"
a7 7'6"	b7 10'7"	k7 11'0"
a8 7'5"	b8 10'7"	k8 10'8"
a9 7'4"	b9 10'7"	k9 10'6"
a10 7'3"	b10 10'7"	k10 10'4"
a11 7'2"	b11 10'7"	k11 10'2"
a12 7'1"	b12 10'7"	k12 10'0"
a13 7'0"	b13 10'7"	k13 9'8"
a14 6'9"	b14 10'7"	k14 9'6"
a15 6'8"	b15 10'7"	k15 9'4"
a16 6'7"	b16 10'7"	k16 9'2"
a17 6'6"	b17 10'7"	k17 9'0"
a18 6'5"	b18 10'7"	k18 8'8"
a19 6'4"	b19 10'7"	k19 8'6"
a20 6'3"	b20 10'7"	k20 8'4"
a21 6'2"	b21 10'7"	k21 8'2"
a22 6'1"	b22 10'7"	k22 8'0"
a23 6'0"	b23 10'7"	k23 7'8"
a24 5'9"	b24 10'7"	k24 7'6"
a25 5'8"	b25 10'7"	k25 7'4"
a26 5'7"	b26 10'7"	k26 7'2"
a27 5'6"	b27 10'7"	k27 7'0"
a28 5'5"	b28 10'7"	k28 6'8"
a29 5'4"	b29 10'7"	k29 6'6"
a30 5'3"	b30 10'7"	k30 6'4"
a31 5'2"	b31 10'7"	k31 6'2"
a32 5'1"	b32 10'7"	k32 6'0"
a33 5'0"	b33 10'7"	k33 5'8"
a34 4'9"	b34 10'7"	k34 5'6"
a35 4'8"	b35 10'7"	k35 5'4"
a36 4'7"	b36 10'7"	k36 5'2"
a37 4'6"	b37 10'7"	k37 5'0"
a38 4'5"	b38 10'7"	k38 4'8"
a39 4'4"	b39 10'7"	k39 4'6"
a40 4'3"	b40 10'7"	k40 4'4"
a41 4'2"	b41 10'7"	k41 4'2"
a42 4'1"	b42 10'7"	k42 4'0"
a43 4'0"	b43 10'7"	k43 3'8"
a44 3'9"	b44 10'7"	k44 3'6"
a45 3'8"	b45 10'7"	k45 3'4"
a46 3'7"	b46 10'7"	k46 3'2"
a47 3'6"	b47 10'7"	k47 3'0"
a48 3'5"	b48 10'7"	k48 2'8"
a49 3'4"	b49 10'7"	k49 2'6"
a50 3'3"	b50 10'7"	k50 2'4"
a51 3'2"	b51 10'7"	k51 2'2"
a52 3'1"	b52 10'7"	k52 2'0"
a53 3'0"	b53 10'7"	k53 1'8"
a54 2'9"	b54 10'7"	k54 1'6"
a55 2'8"	b55 10'7"	k55 1'4"
a56 2'7"	b56 10'7"	k56 1'2"
a57 2'6"	b57 10'7"	k57 1'0"
a58 2'5"	b58 10'7"	k58 8"
a59 2'4"	b59 10'7"	k59 6"
a60 2'3"	b60 10'7"	k60 4"
a61 2'2"	b61 10'7"	k61 2"
a62 2'1"	b62 10'7"	k62 0"
a63 2'0"	b63 10'7"	k63 0"
a64 1'9"	b64 10'7"	k64 0"
a65 1'8"	b65 10'7"	k65 0"
a66 1'7"	b66 10'7"	k66 0"
a67 1'6"	b67 10'7"	k67 0"
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a69 1'4"	b69 10'7"	k69 0"
a70 1'3"	b70 10'7"	k70 0"
a71 1'2"	b71 10'7"	k71 0"
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a73 1'0"	b73 10'7"	k73 0"
a74 9"	b74 10'7"	k74 0"
a75 8"	b75 10'7"	k75 0"
a76 7"	b76 10'7"	k76 0"
a77 6"	b77 10'7"	k77 0"
a78 5"	b78 10'7"	k78 0"
a79 4"	b79 10'7"	k79 0"
a80 3"	b80 10'7"	k80 0"
a81 2"	b81 10'7"	k81 0"
a82 1"	b82 10'7"	k82 0"
a83 0"	b83 10'7"	k83 0"

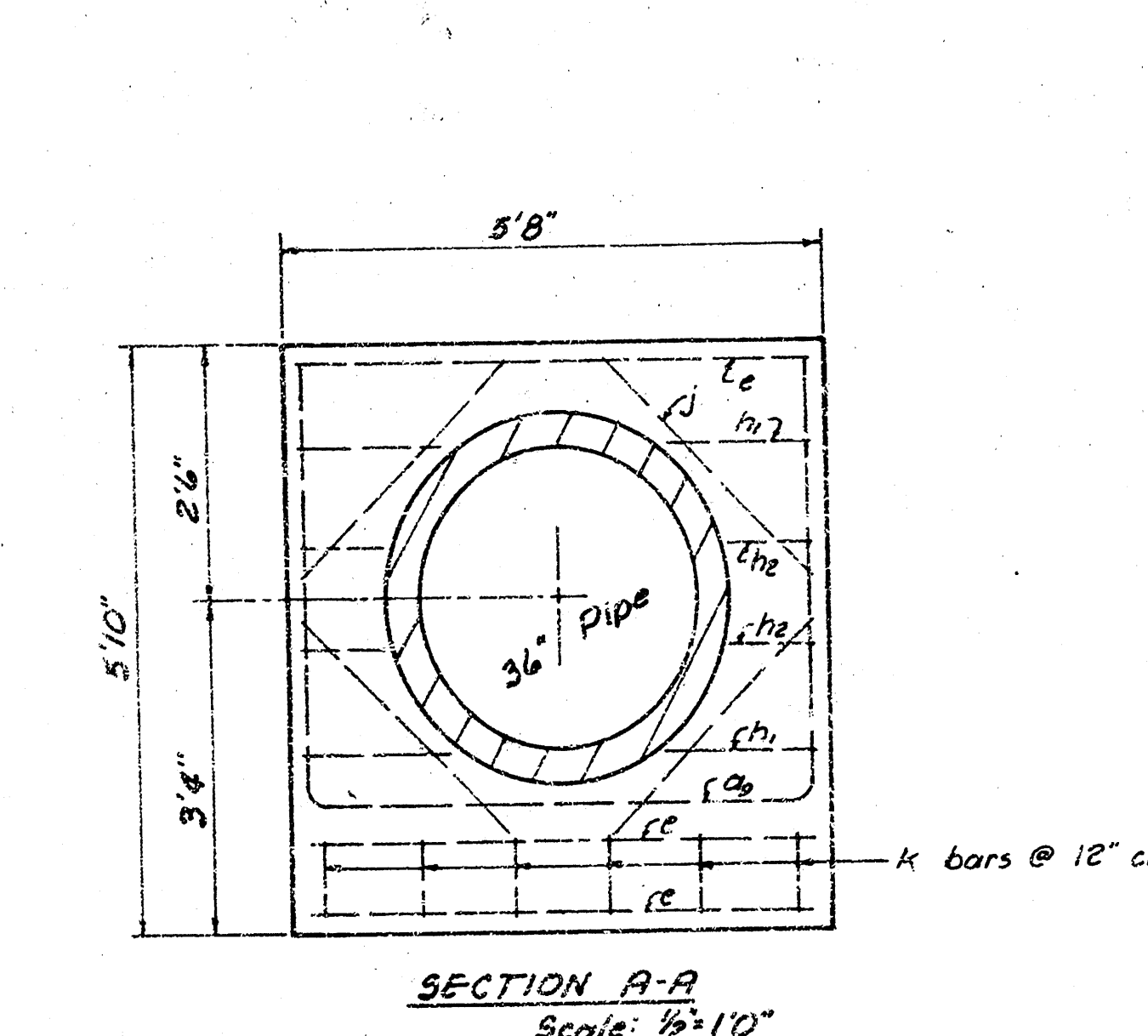


BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	8'7"		5.73
a2	1	9'0"		6.01
a3	1	9'7"		6.40
a4	1	10'0"		6.68
a5	1	10'5"		6.96
a6	1	10'10"		7.24
a7	1	11'3"		7.52
a8	1	11'10"		7.90
a9	1	14'0"		9.35
b	6	10'6"		41.48
c	2	7'0"		9.35
d	2	9'0"		12.02
e	3	5'4"		10.69
f	2	8'3"		11.24
g	2	4'7"		6.12
h	4	1'6"		4.01
i	4	10"		2.23
j	4	3'0"		8.02
k	6	2'4"		10.02
Total Rebars, lbs.				178.91
Conc. C.Y.				3.20

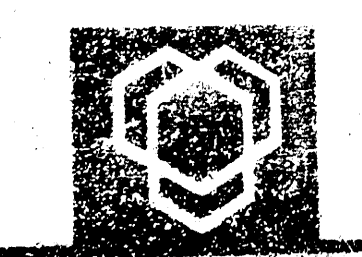
All rebars to be #2



a bars	b bars	k bars
a1 6'11"	b1 8'4"	k1 10"
a2 6'8"	b2 8'4"	k2 10"
a3 6'5"	b3 8'4"	k3 10"
a4 6'2"	b4 8'4"	k4 10"
a5 5'11"	b5 8'4"	k5 10"
a6 5'8"	b6 8'4"	k6 10"
a7 5'5"	b7 8'4"	k7 10"
a8 5'2"	b8 8'4"	k8 10"
a9 5'0"	b9 8'4"	k9 10"
a10 4'9"	b10 8'4"	k10 10"
a11 4'8"	b11 8'4"	k11 10"
a12 4'7"	b12 8'4"	k12 10"
a13 4'6"	b13 8'4"	k13 10"
a14 4'5"	b14 8'4"	k14 10"
a15 4'4"	b15 8'4"	k15 10"
a16 4'3"	b16 8'4"	k16 10"
a17 4'2"	b17 8'4"	k17 10"
a18 4'1"	b18 8'4"	k18 10"
a19 4'0"	b19 8'4"	k19 10"
a20 3'9"	b20 8'4"	k20 10"
a21 3'8"	b21 8'4"	k21 10"
a22 3'7"	b22 8'4"	k22 10"
a23 3'6"	b23 8'4"	k23 10"
a24 3'5"	b24 8'4"	k24 10"
a25 3'4"	b25 8'4"	k25 10"
a26 3'3"	b26 8'4"	k26 10"
a27 3'2"	b27 8'4"	k27 10"
a28 3'1"	b28 8'4"	k28 10"
a29 3'0"	b29 8'4"	k29 10"
a30 2'9"	b30 8'4"	k30 10"
a31 2'8"	b31 8'4"	k31 10"
a32 2'7"	b32 8'4"	k32 10"
a33 2'6"	b33 8'4"	k33 10"
a34 2'5"	b34 8'4"	k34 10"
a35 2'4"	b35 8'4"	k35 10"
a36 2'3"	b36 8'4"	k36 10"
a37 2'2"	b37 8'4"	k37 10"
a38 2'1"	b38 8'4"	k38 10"
a39 2'0"	b39 8'4"	k39 10"
a40 1'9"	b40 8'4"	k40 10"
a41 1'8"	b41 8'4"	k41 10"
a42 1'7"	b42 8'4"	k42 10"
a43 1'6"	b43 8'4"	k43 10"
a44 1'5"	b44 8'4"	k44 10"
a45 1'4"	b45 8'4"	k45 10"
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a48 1'1"	b48 8'4"	k48 10"
a49 1'0"	b49 8'4"	k49 10"
a50 9"	b50 8'4"	k50 10"
a51 8"	b51 8'4"	k51 10"
a52 7"	b52 8'4"	k52 10"
a53 6"	b53 8'4"	k53 10"
a54 5"	b54 8'4"	k54 10"
a55 4"	b55 8'4"	k55 10"
a56 3"	b56 8'4"	k56 10"
a57 2"	b57 8'4"	k57 10"
a58 1"	b58 8'4"	k58 10"
a59 0"	b59 8'4"	k59 10"



a bars	b bars	k bars
a1 6'11"	b1 8'4"	k1 10"
a2 6'8"	b2 8'4"	k2 10"
a3 6'5"	b3 8'4"	k3 10"
a4 6'2"	b4 8'4"	k4 10"
a5 5'11"	b5 8'4"	k5 10"
a6 5'8"	b6 8'4"	k6 10"
a7 5'5"	b7 8'4"	k7 10"
a8 5'2"	b8 8'4"	k8 10"
a9 5'0"	b9 8'4"	k9 10"
a10 4'9"	b10 8'4"	k10 10"
a11 4'8"	b11 8'4"	k11 10"
a12 4'7"	b12 8'4"	k12 10"
a13 4'6"	b13 8'4"	k13 10"
a14 4'5"	b14 8'4"	k14 10"
a15 4'4"	b15 8'4"	k15 10"
a16 4'3"	b16 8'4"	k16 10"
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a18 4'1"	b18 8'4"	k18 10"
a19 4'0"	b19 8'4"	k19 10"
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a21 3'8"	b21 8'4"	k21 10"
a22 3'7"	b22 8'4"	k22 10"
a23 3'6"	b23 8'4"	k23 10"
a24 3'5"	b24 8'4"	k24 10"
a25 3'4"	b25 8'4"	k25 10"
a26 3'3"	b26 8'4"	k26 10"
a27 3'2"	b27 8'4"	k27 10"
a28 3'1"	b28 8'4"	k28 10"
a29 3'0"	b29 8'4"	k29 10"
a30 2'9"	b30 8'4"	k30 10"
a31 2'8"	b31 8'4"	k31 10"
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a34 2'5"	b34 8'4"	k34 10"
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a36 2'3"	b36 8'4"	k36 10"
a37 2'2"	b37 8'4"	k37 10"
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a39 2'0"	b39 8'4"	k39 10"
a40 1'9"	b40 8'4"	k40 10"
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a42 1'7"	b42 8'4"	k42 10"
a43 1'6"	b43 8'4"	k43 10"
a44 1'5"	b44 8'4"	k44 10"
a45 1'4"	b45 8'4"	k45 10"
a46 1'3"	b46 8'4"	k46 10"
a47 1'2"	b47 8'4"	k47 10"
a48 1'1"	b48 8'4"	k48 10"
a49 1'0"	b49 8'4"	k49 10"
a50 9"	b50 8'4"	k50 10"
a51 8"	b51 8'4"	k51 10"
a52 7"	b52 8'4"	k52 10"
a53 6"	b53 8'4"	k53 10"
a54 5"	b54 8'4"	k54 10"
a55 4"	b55 8'4"	k55 10"
a56 3"	b56 8'4"	k56 10"
a57 2"	b57 8'4"	k57 10"
a58 1"	b58 8'4"	k58 10"
a59 0"	b59 8'4"	k59 10"

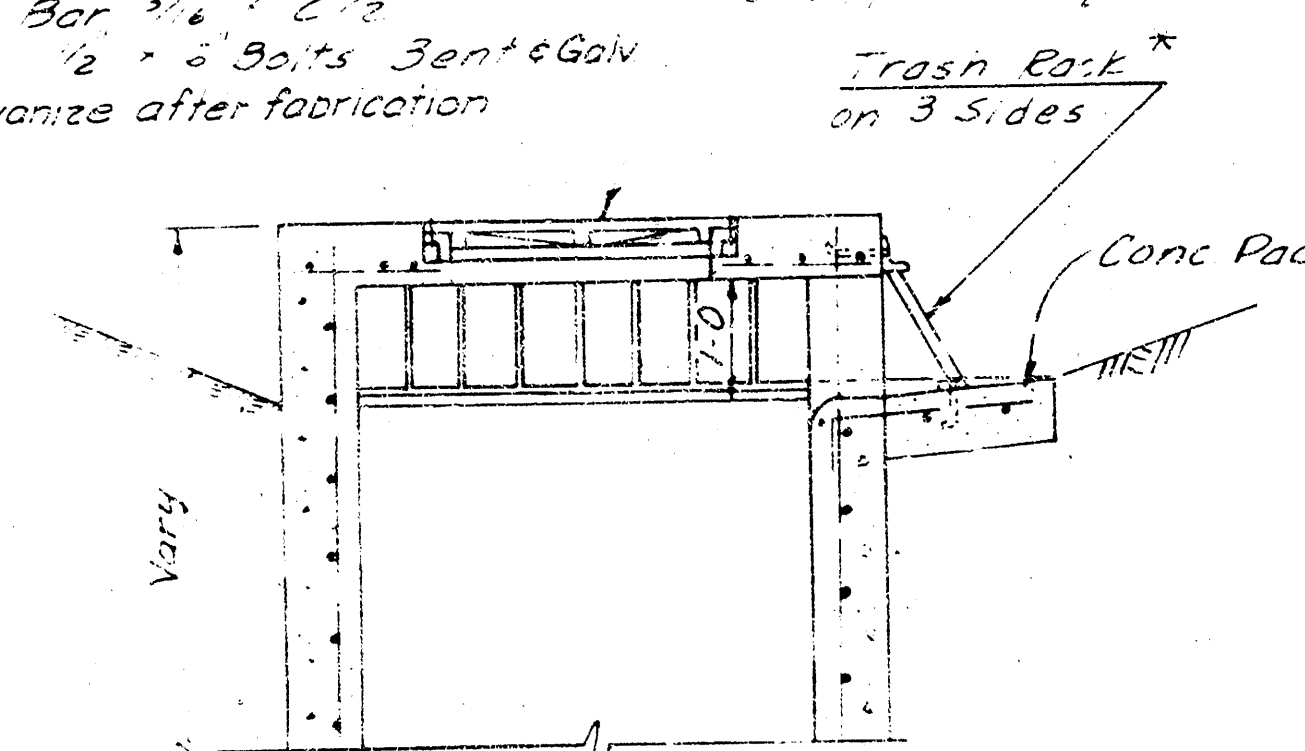


Van Doren - Hazard - Stallings
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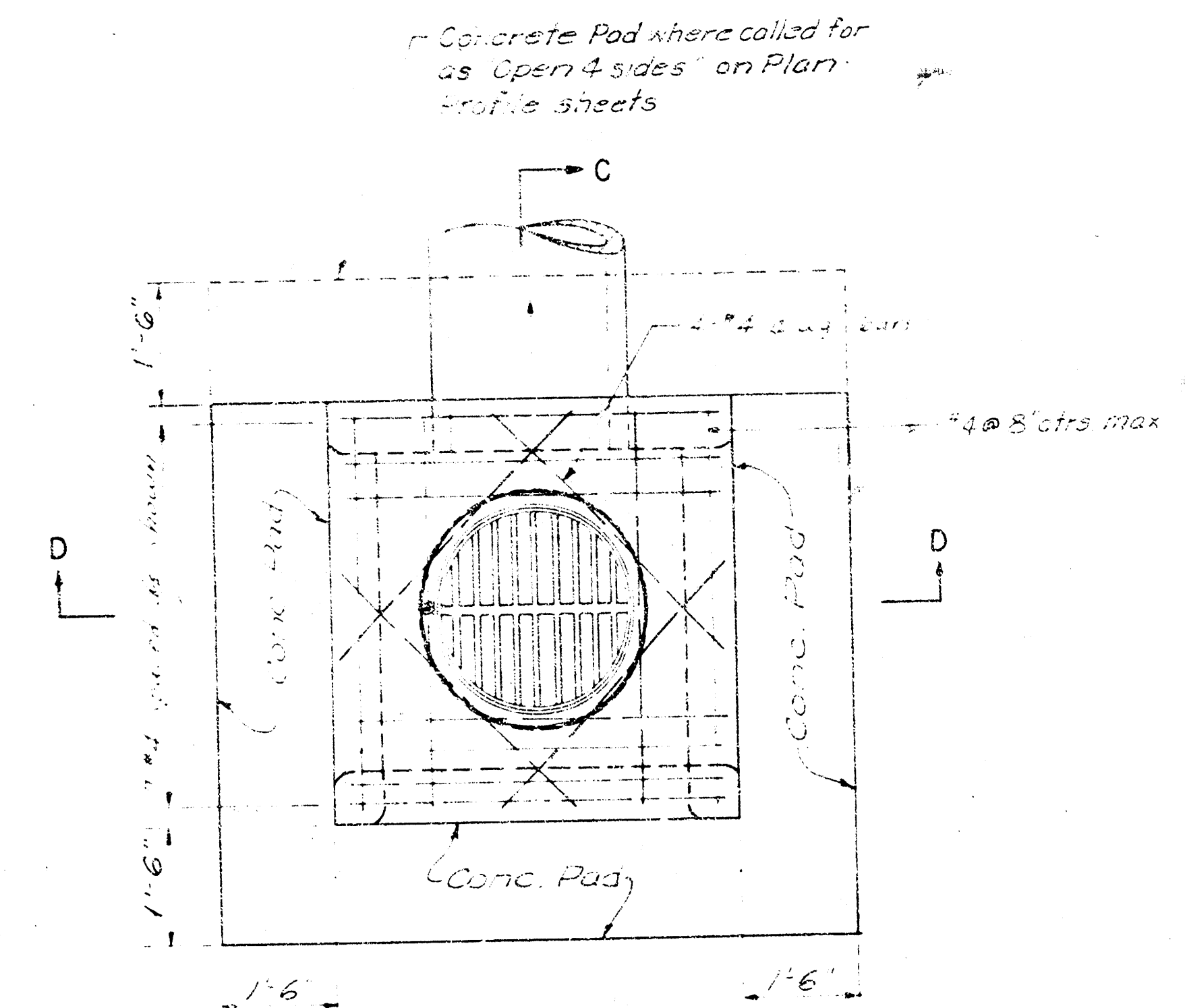
* NOTE

Typical Trash Rack Construction
Top Rail: C-12 x 2-1/2 x 4 LVL
Verticals: 3" x 20" x 6 CTS
Bottom Rail: 1/2" x 2-1/2"
Anchors: 1/2" x 3" Bolts Bent & Galv.
Hot Dip Galvanize after fabrication

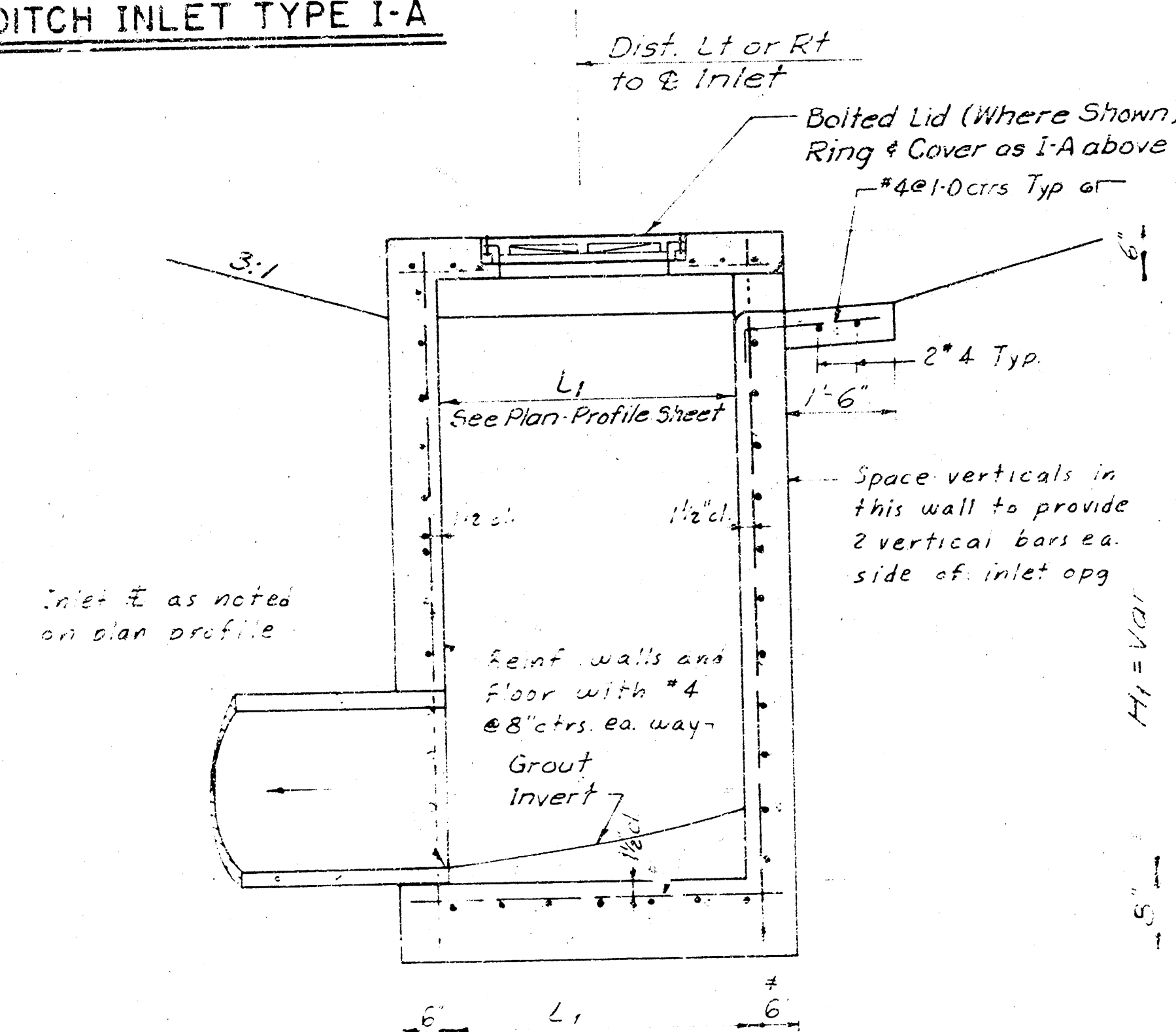
Cast Iron Manhole Ring & Cover (Boitee Lid)
Neenah Foundry No. R-1315-E2
or Approved Equal



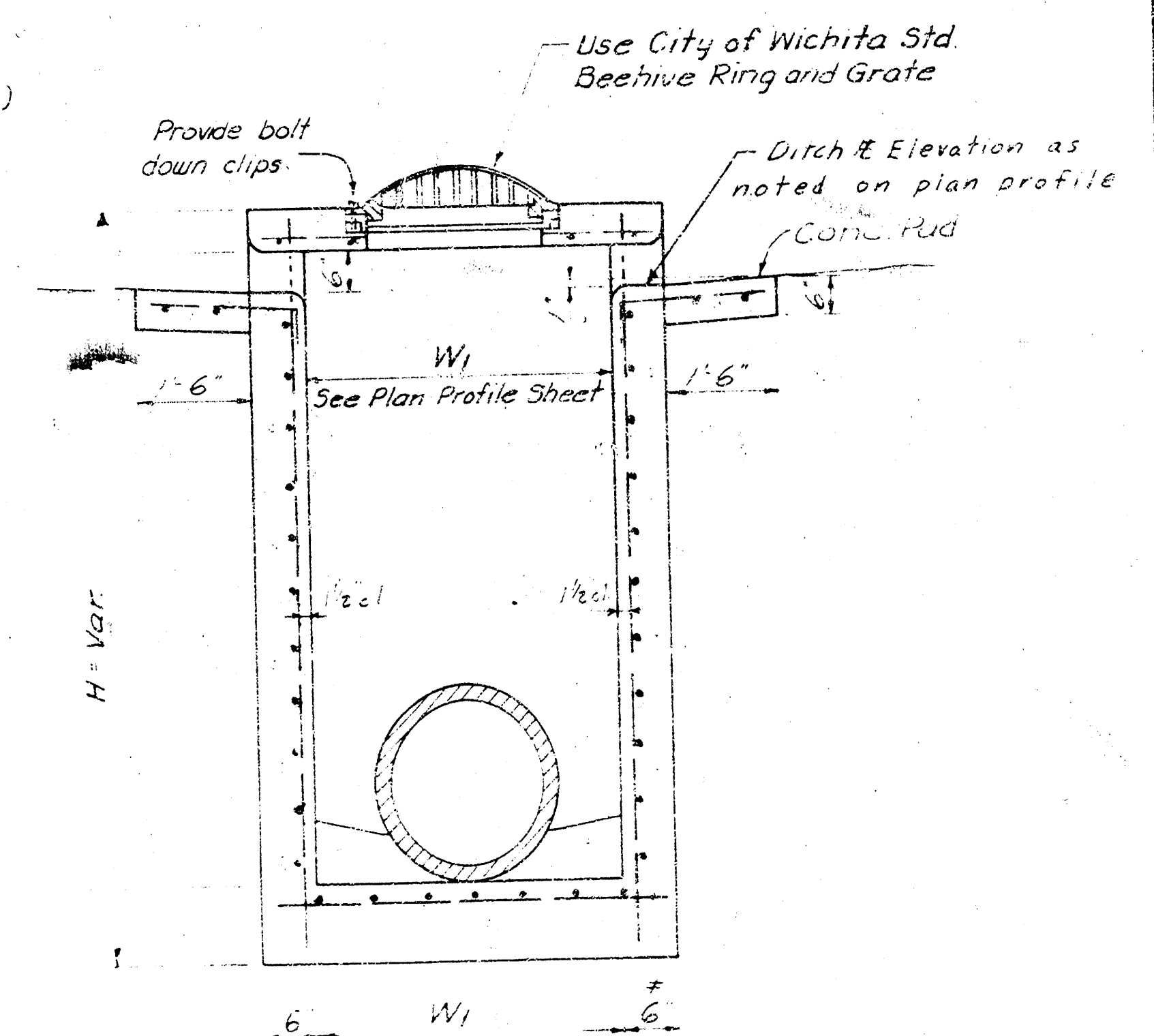
DITCH INLET TYPE I-A



PLAN



SECTION C-C
INLET-I



SECTION D-D

DITCH INLET TYPE I

* Where dimension 'H' is greater than 6', use 8" wall thickness.

DESIGN
CHECKED BY
DATE
REVISION

DITCH INLET TYPE I & IA AND
REINFORCED CONCRETE MANHOLE
VAN DOREN-HAZARD-STALLINGS
ARCHITECTS-ENGINEERS-PLANNERS
SHEET 9
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