



LIFESTYLE MOBILE HOME PARK
PAVING AND STORM SEWER PLANS

ENVIRONMENTAL ENTERPRISES INC.
WICHITA, KANSAS

DELAMATER, FREUND & ASSOCIATES, P.A.
ENGINEERS & ARCHITECTS, WICHITA, KANSAS
FEBRUARY, 1979

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4. Plan - Profile of Storm Sewers and Outfalls
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7. Utilities Layout

NOTE TO CONTRACTOR

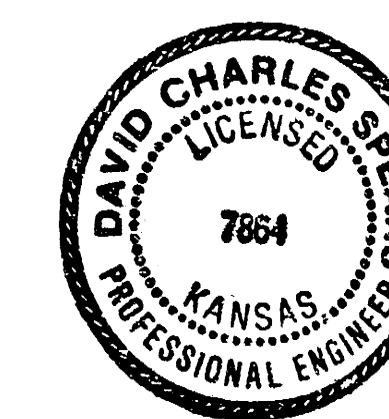
This project will be constructed under the supervision of the City Engineer and conforming to the Specifications of the City of Wichita. The CONTRACTOR will reimburse the City of Wichita for all cost of Engineering, Plans, and Inspection.

CITY OF WICHITA

Engineering Div

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

4/20/19

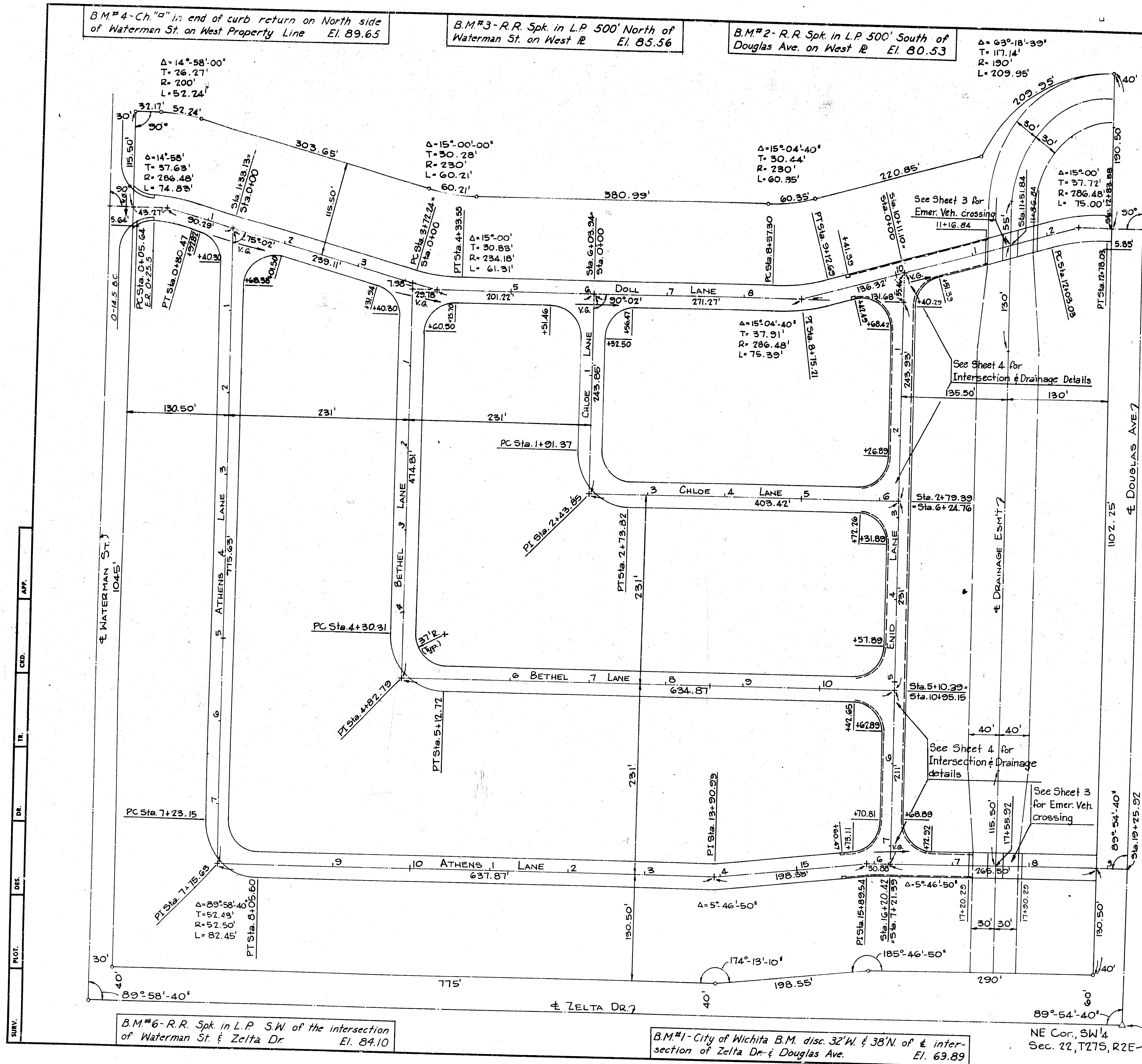


SCALE 1"=60'

NE Cor, SW¹/₄
Sec. 22, T27S, R2E

249-D-215

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NOTE:
 This project shall be constructed in accordance with the latest specifications of the City of Wichita.
 At the entrance of Doll Lane off of Waterman Street, the radius at the back of curb is 40 feet; curbs shall be vertical to end of return; and the approach shall be concrete to the property line.

NOTE TO CONTRACTOR
 This project will be constructed under the supervision of the City Engineer and conforming to the specifications of the City of Wichita. The Contractor will reimburse the City of Wichita for all cost of Engineering, Plans, and Inspection.

APPROVED AND NOTED
 By City Engineer of Wichita
 [Signature]
 [Signature]
 [Signature]

Denotes Vert. C#6

ENVIRONMENTAL ENTERPRISES INC.
 CECIL MASTERS, PRES.; PAUL TREADWELL, SEC.-TREAS.

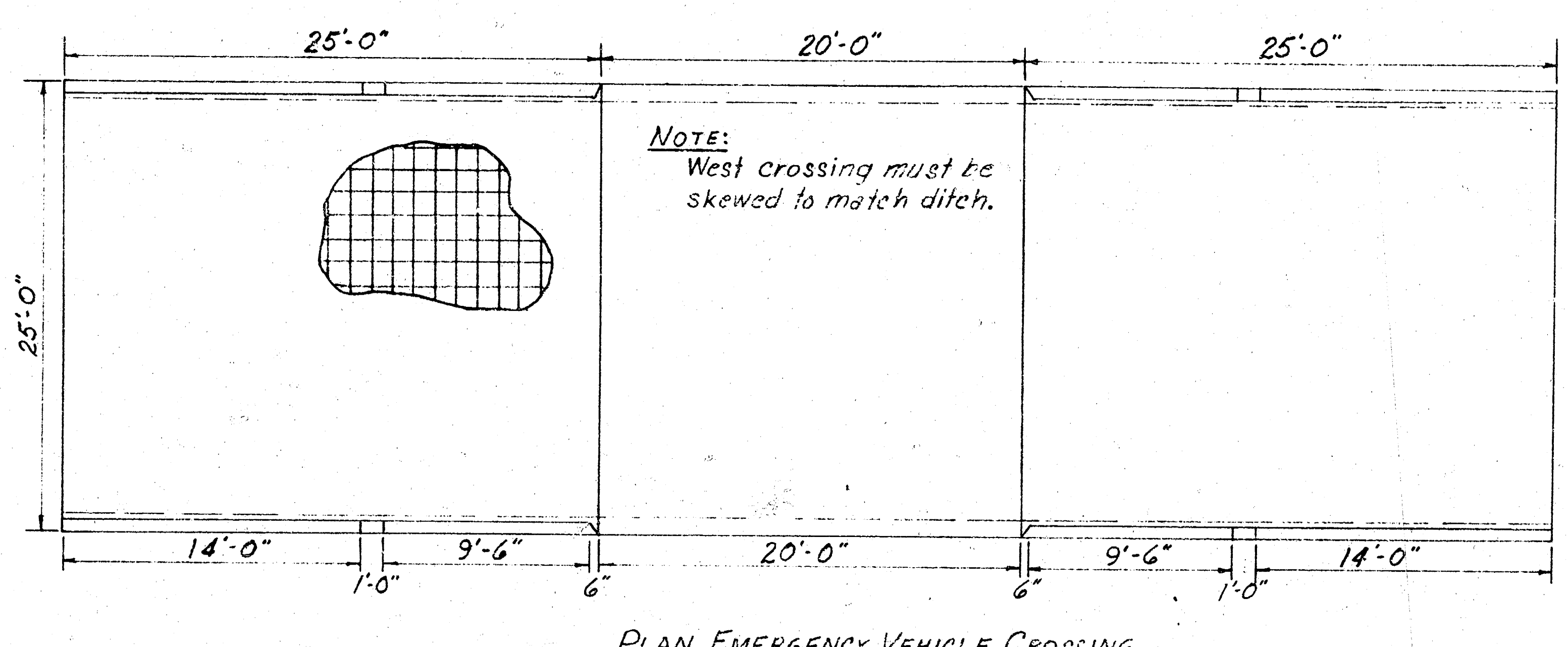
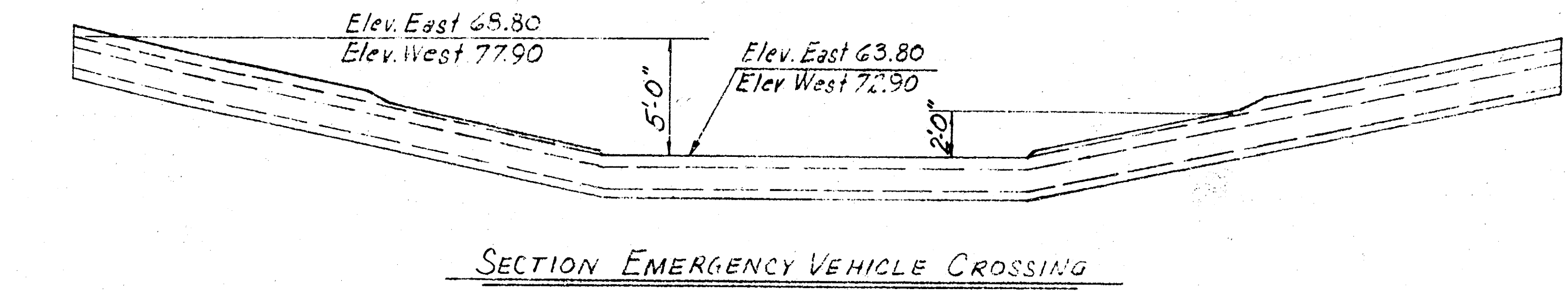
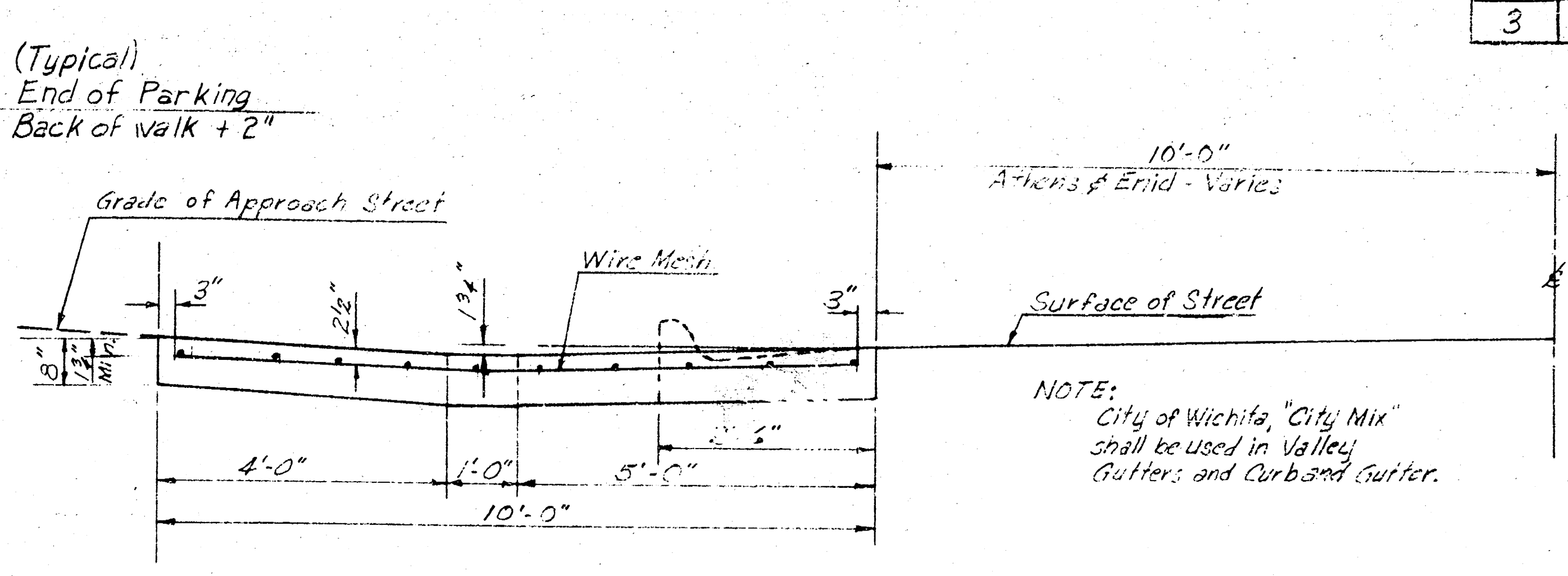
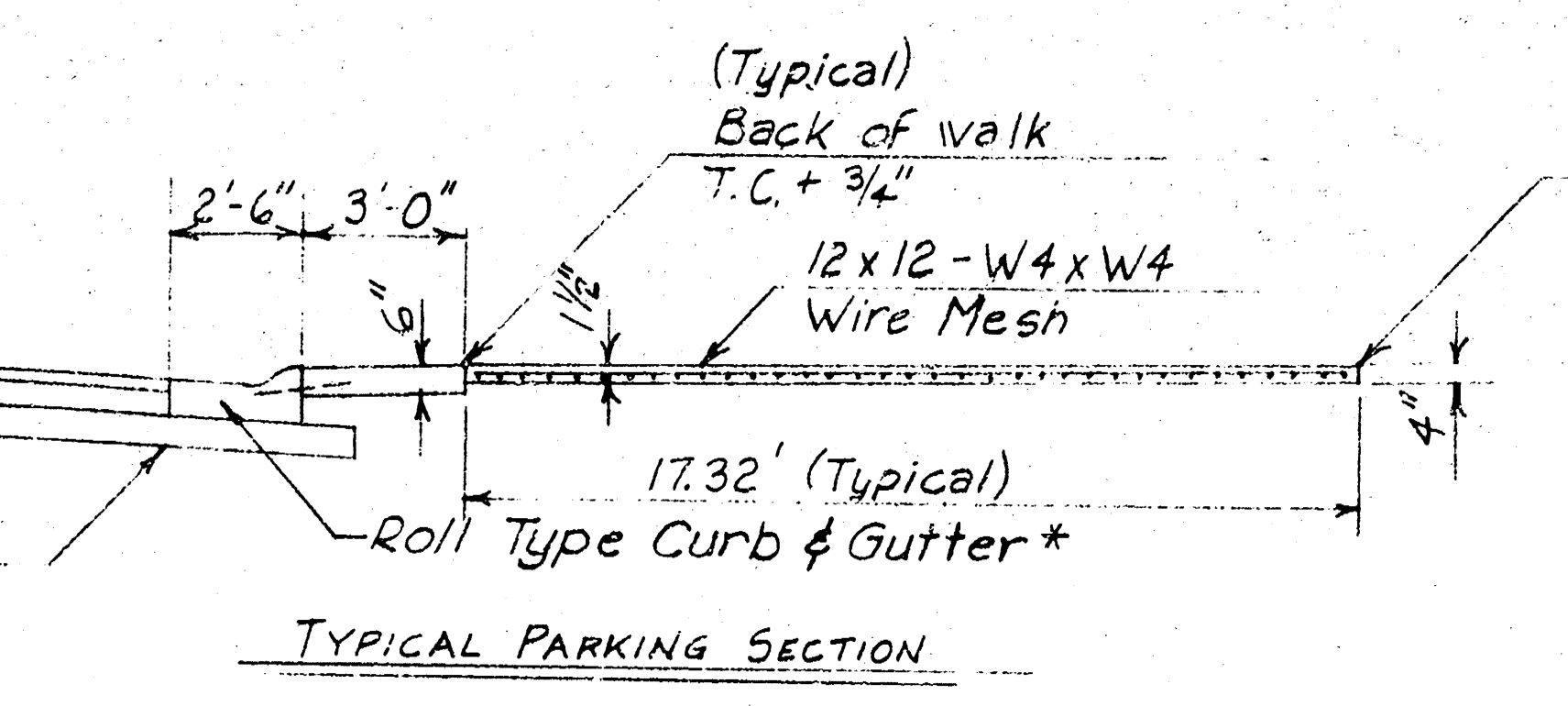
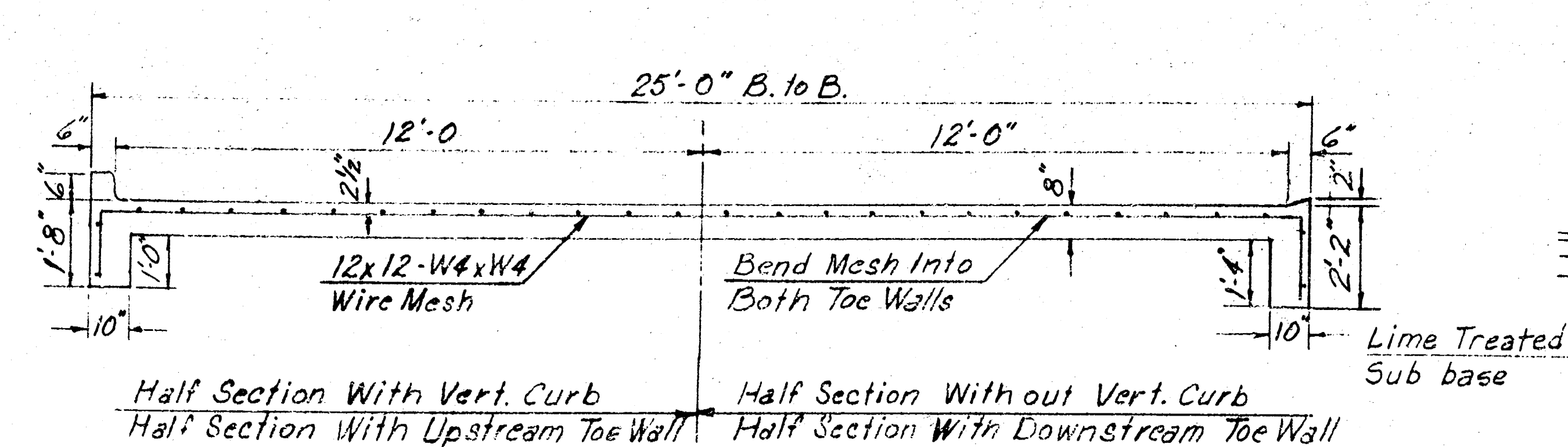
LIFESTYLE MOBILE HOME PARK

STREET ALIGNMENT

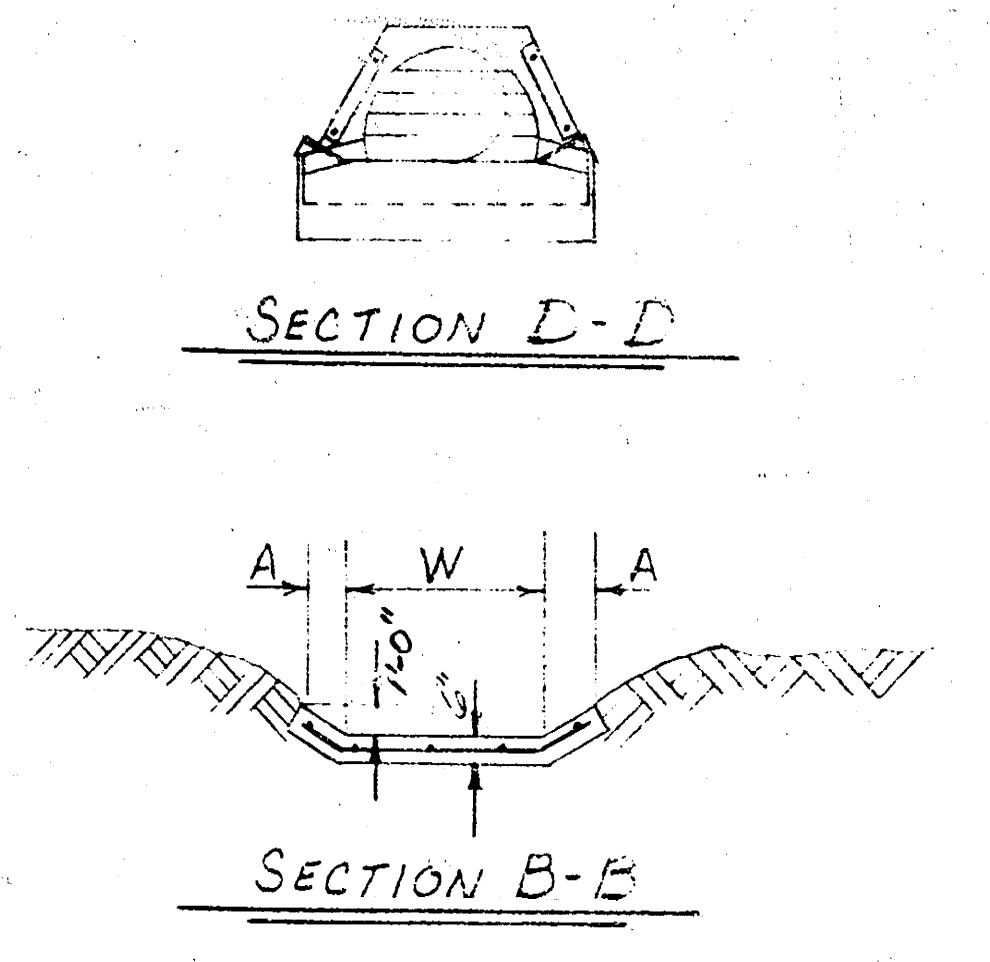
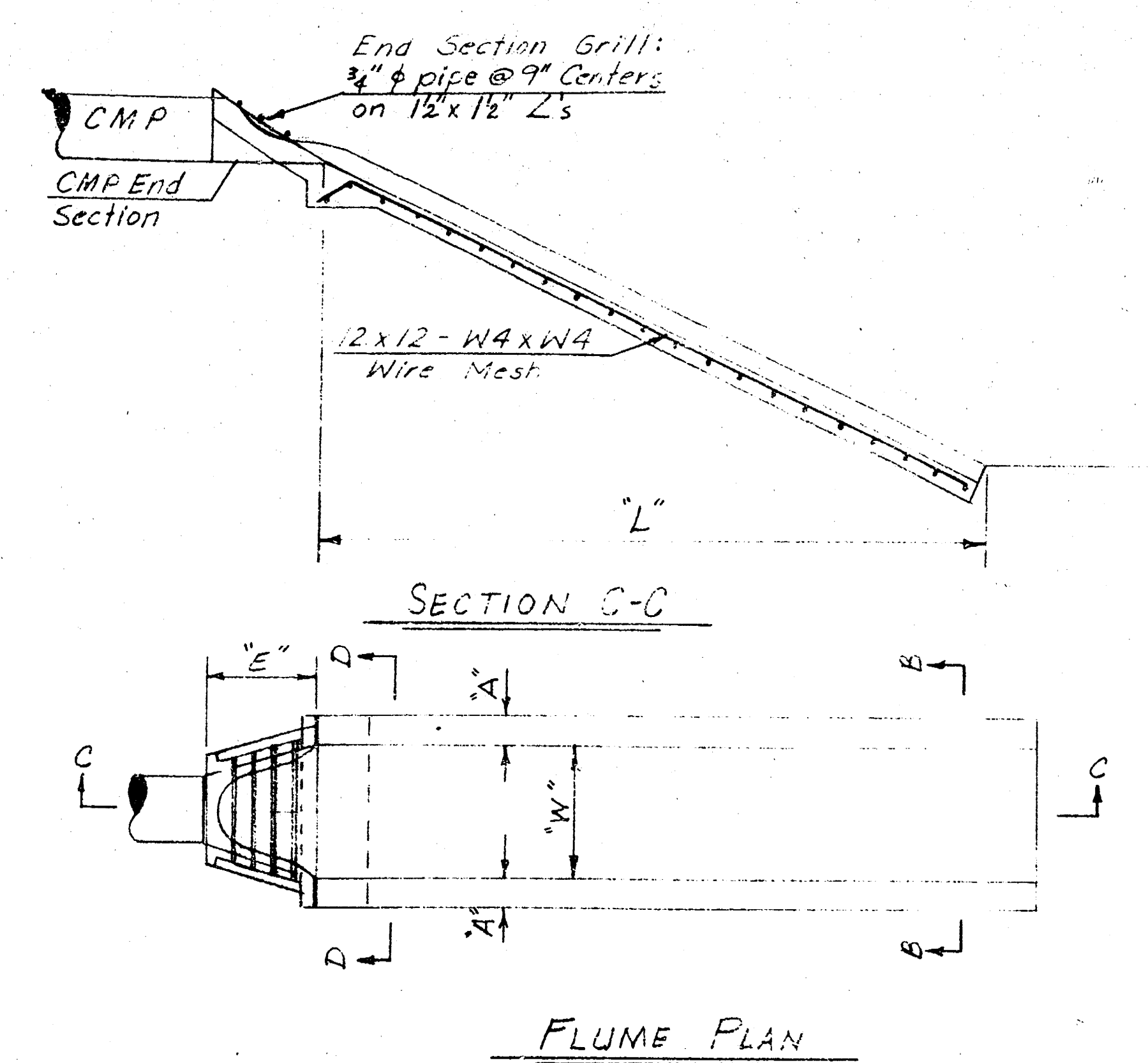
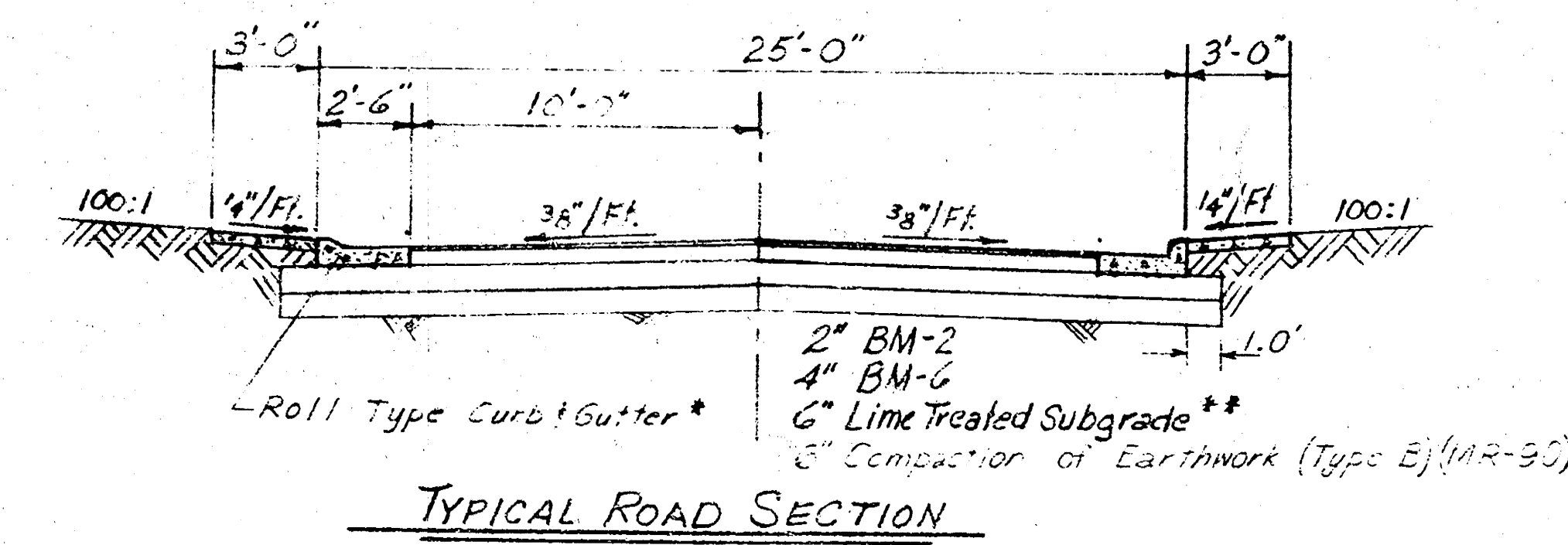
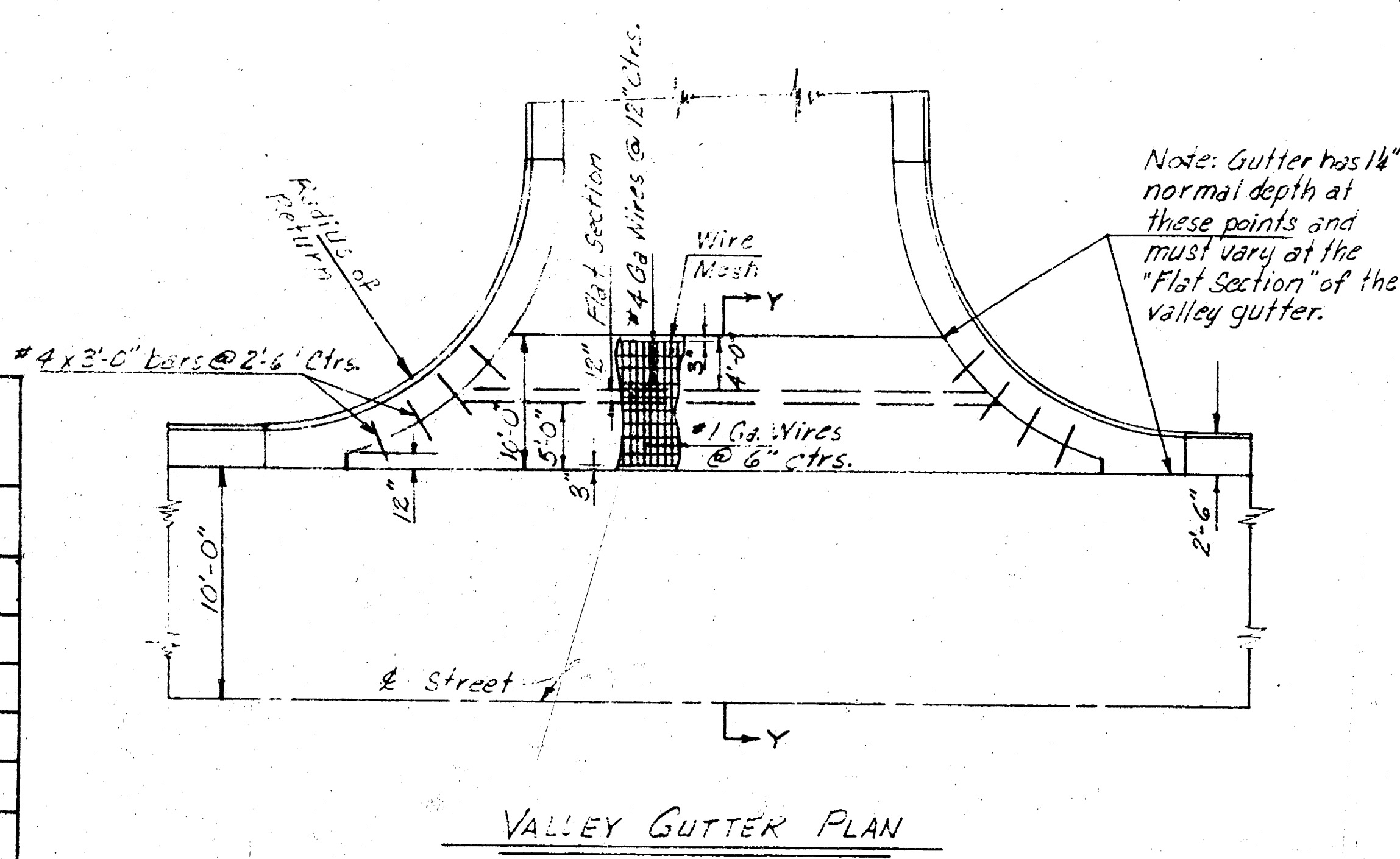
DELAMATER, FREUND & ASSOCIATES, P.A.
 ENGINEERS & ARCHITECTS
 WICHITA, KANSAS

SCALE DATE Dwg. No. 249-D-201

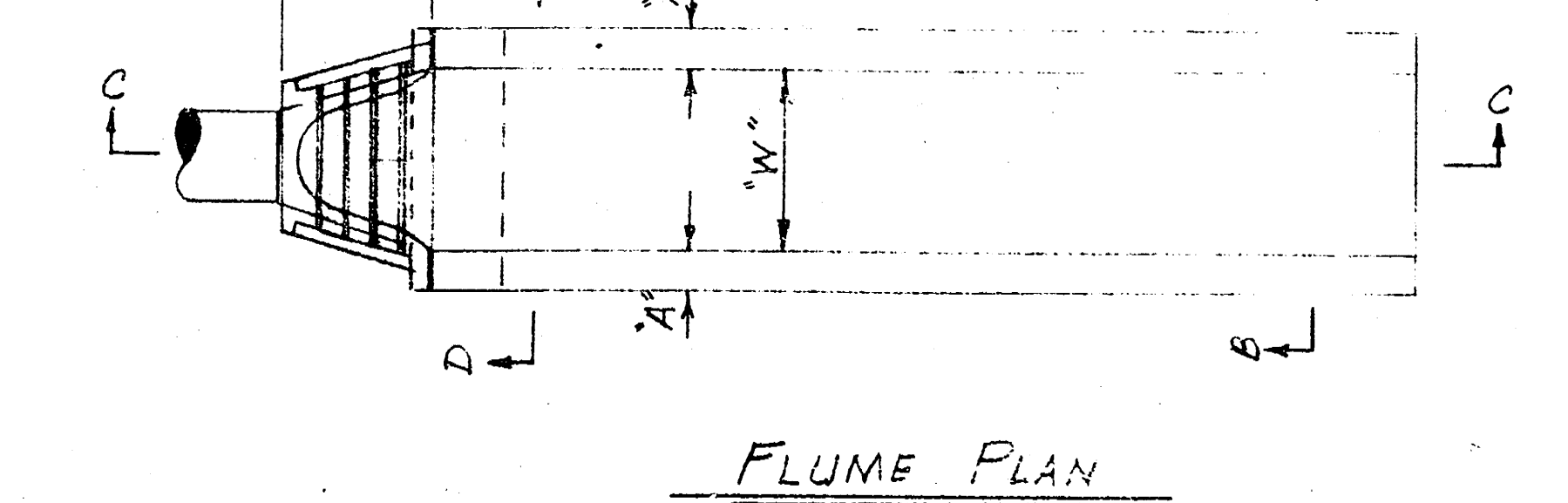
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SUMMARY OF QUANTITIES		
ITEM	QUANTITY	UNIT
EXCAVATION (STORM SEWER)	254	Cu. Yd.
COMPACTION OF EARTHWORK (TYPE B) (MR-90)	2,825	Cu. Yd.
LIME TREATED SUBGRADE (6")	16,945	Sq. Yd.
2" BITUMINOUS PAVEMENT (BM-2)	12,387	Sq. Yd.
4" BITUMINOUS PAVEMENT (BM-6)	12,387	Sq. Yd.
VALLEY GUTTERS (8" UNIFORM) (AE)	8	EACH
EMERGENCY VEHICLE CROSSINGS	2	EACH
ROLL TYPE CURB AND GUTTER	8,341	LIN. FT.
STANDARD CURB AND GUTTER	1,980	LIN. FT.
CONCRETE PAVEMENT (4" UNIFORM) (AE) (SIDEWALKS)	2,085	Sq. Yd.
CONCRETE PAVEMENT (4" UNIFORM) (AE) (PATIOS)	3,889	Sq. Yd.
CONCRETE PAVEMENT (4" UNIFORM W/MESH) (AE) (PARKING)	7,866	Sq. Yd.
CONCRETE PAVEMENT (6" UNIFORM) (AE) (SIDEWALK)	1,330	Sq. Yd.
REMOVE CURB AND GUTTER ON WATERMAN	105	LIN. FT.
TYPE 22 CURB INLET, L = 6.0'	2	EACH
TYPE 22 CURB INLET, L = 10.0'	3	EACH
TYPE 22 CURB INLET, L = 15.0'	1	EACH
18" STORM SEWER (CMP)	200	LIN. FT.
21" STORM SEWER (CMP)	185	LIN. FT.
24" STORM SEWER (CMP)	90	LIN. FT.
30" STORM SEWER (CMP)	90	LIN. FT.
18" END SECTION (CM)	1	EACH
21" END SECTION (CM)	1	EACH
24" END SECTION (CM)	1	EACH
30" END SECTION (CM)	1	EACH
END SECTION GRILL	4	EACH
FLUMES	4	EACH
MOVEN WIRE MESH (4" PARKING)	29,736	LBS.
# 4 DOWEL BARS (DRIVEWAY)	946	LBS.
CONCRETE PAVEMENT (8" UNIFORM W/MESH) (AE) (SOUTH ENTRANCE)	108	Sq. Yd.
TYPE 3 - RIP-RAP	114	Sq. Yd.



PIPE SIZE	W	A	L	E
18"	36"	16"	20.0"	31"
21"	42"	18"	23.5"	36"
24"	48"	20"	20.0"	41"
30"	60"	24"	20.0"	51"



* Except as otherwise noted on Street Alignment Plan, Sheet 2.
 ** Percentage of Lime in Lime Treated Subgrade shall be sufficient to produce a 6" subgrade with a Maximum R.I. = 10 and a Minimum CBR = 50.

NOTE TO CONTRACTOR
 This project will be constructed under the supervision of the City of Wichita and the City of Wichita will provide the City of Wichita for all work of Engineering, Planning and Inspection.

APPROVED
 [Signature]
 [Title]

ENVIRONMENTAL ENTERPRISES INC
 CECIL MASTERS, PRES: PAUL TREADWELL, SEC-TREAS

LIFESTYLE MOBILE HOME PARK
 EMERGENCY VEHICLE CROSSING
 AND PAVING DETAILS

DELAMATER, FREUND & ASSOCIATES, P.A.
 ENGINEERS & ARCHITECTS
 WICHITA, KANSAS

SCALE DATE DWG. NO. 249-D-211

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2 INLETS AT ATHENS LANE
REINFORCING BAR LIST L=10.0' W=4.5' H=4.25'

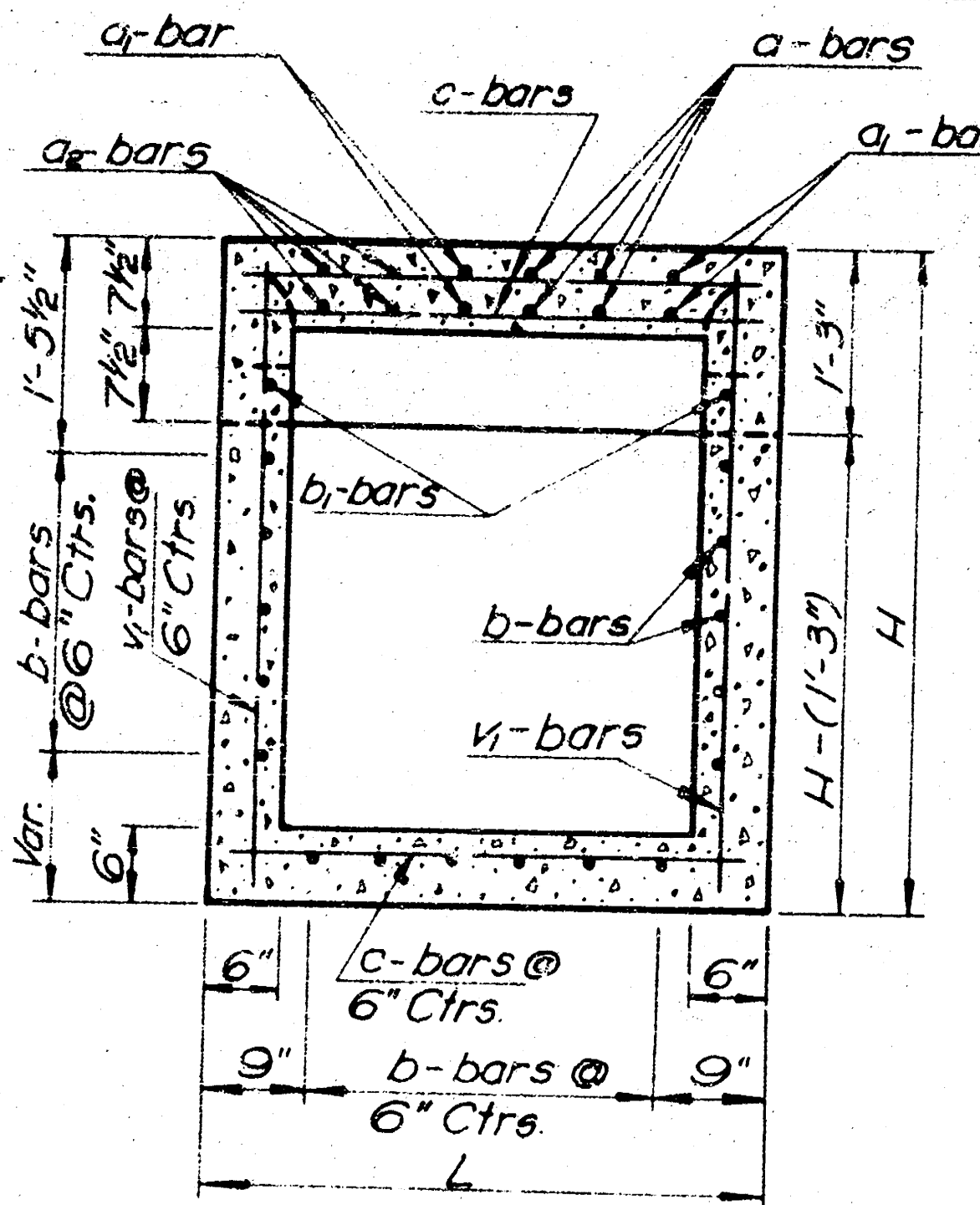
Bar No.	Size	No. of Bars	Length
A-1	#4	2	2'-6"
A-2	#4	14	3'-0"
B	#4	28	4'-3"
B-1	#4	2	3'-9"
C	#4	26	9'-9"
C-1	#4	4	7'-6"
C-2	#4	4	7'-3"
V	#4	18	2'-9"
V-1	#4	32	4'-0"
X	#4	2	5'-0"

Cast Iron = 117 lbs. Rebar = 510 lbs.
Concrete = 3.1 C. Y. Exc. = 12.3 C. Y.

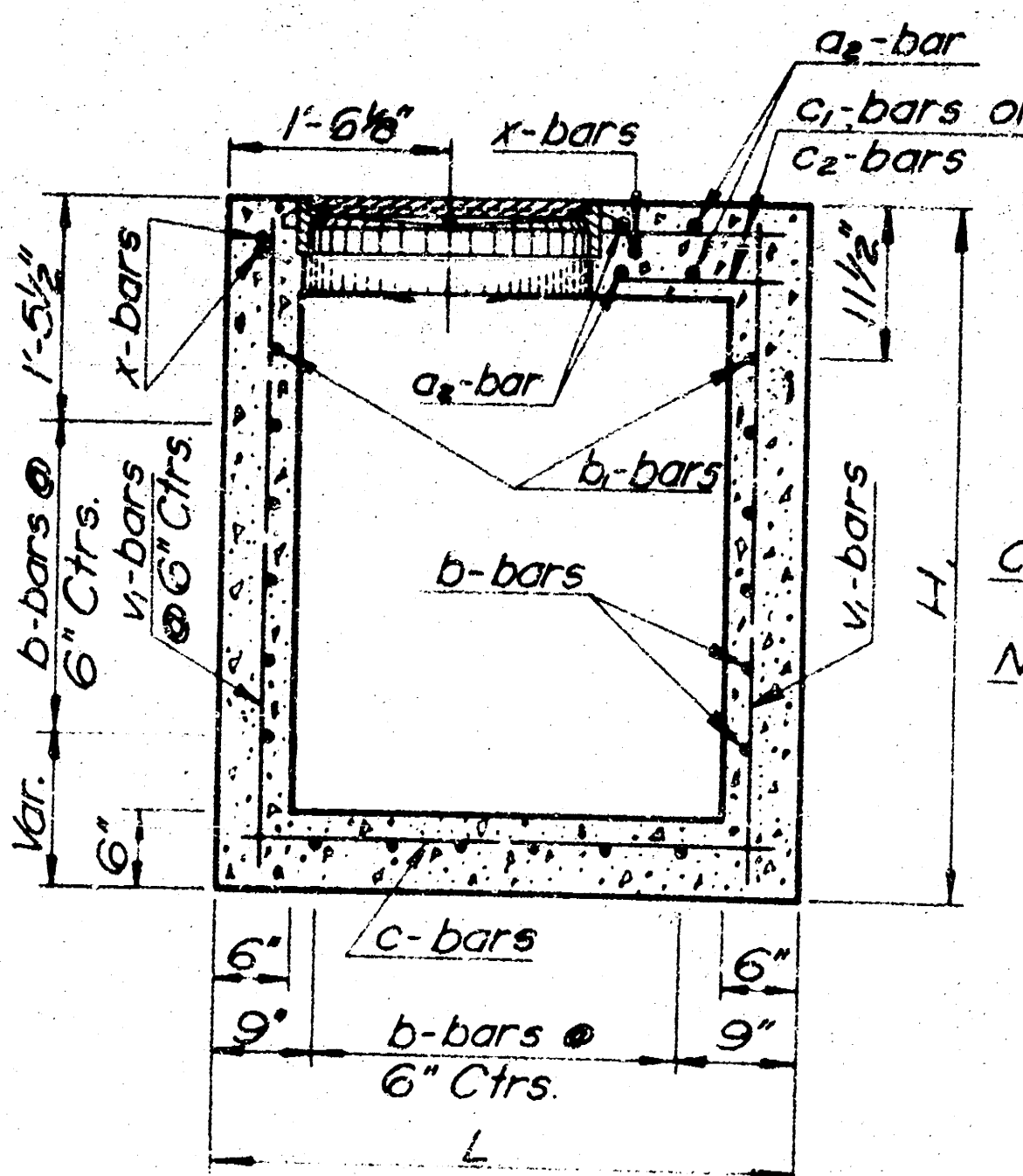
1 INLET AT BETHEL LANE
REINFORCING BAR LIST L=15.0' W=4.5' H=4.5'

Bar No.	Size	No. of Bars	Length
A	#4	2	2'-6"
A-1	#4	2	3'-0"
A-2	#4	24	9'-1"
B	#4	38	4'-3"
B-1	#4	2	3'-9"
C	#4	26	14'-9"
C-1	#4	4	12'-6"
C-2	#4	4	12'-9"
V	#4	28	3'-0"
V-1	#4	42	4'-3"
X	#4	2	5'-0"

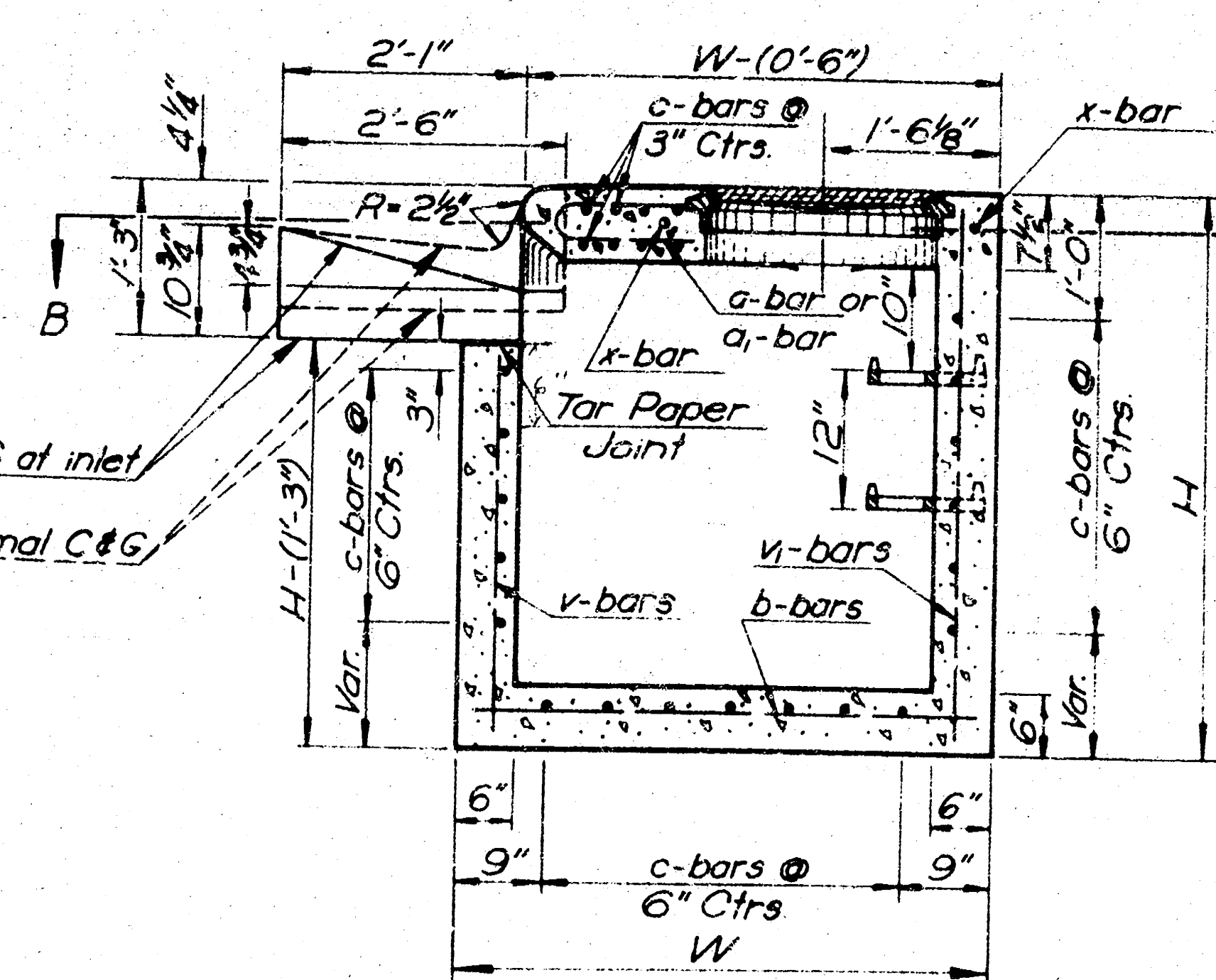
Cast Iron = 117 lbs. Rebar = 771 lbs.
Concrete = 4.7 C. Y. Exc. = 18.5 C. Y.



SECTION D-D



SECTION C-C



SECTION A-A

Note:
Use Class A Concrete throughout.
All exposed edges shall be finished with an edging tool.
Reinforcing bars shall be bent around pipe.
No deductions in concrete quantities shall be made for pipe openings.
At the contractor's option Class A Concrete (AE) or mix used in this PWT may be used throughout.

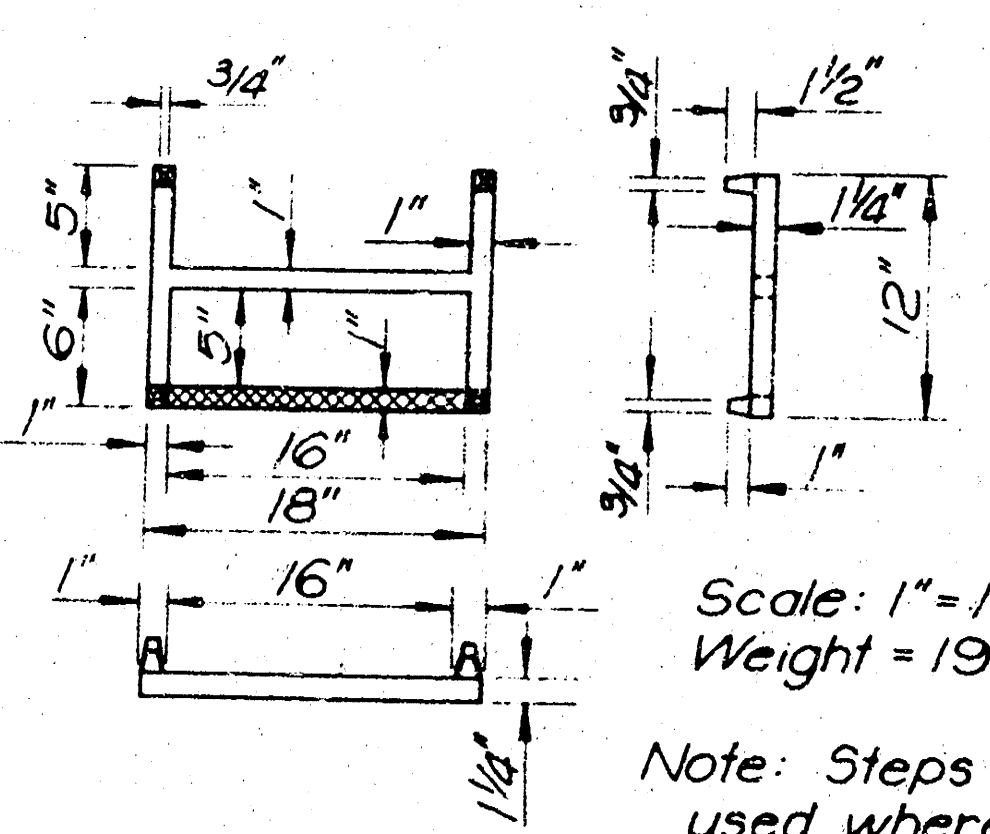
When so ordered by the Engineer, the top of the inlet shall be sloped slightly to approximately fit the ground line or other conditions.
All exposed cast iron surfaces shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.

Floor of inlet shall be shaped as directed by the Engineer. Concrete used for shaping shall be unreinforced Class A Concrete. No addition in concrete quantities shall be made for shaping floor of inlets.

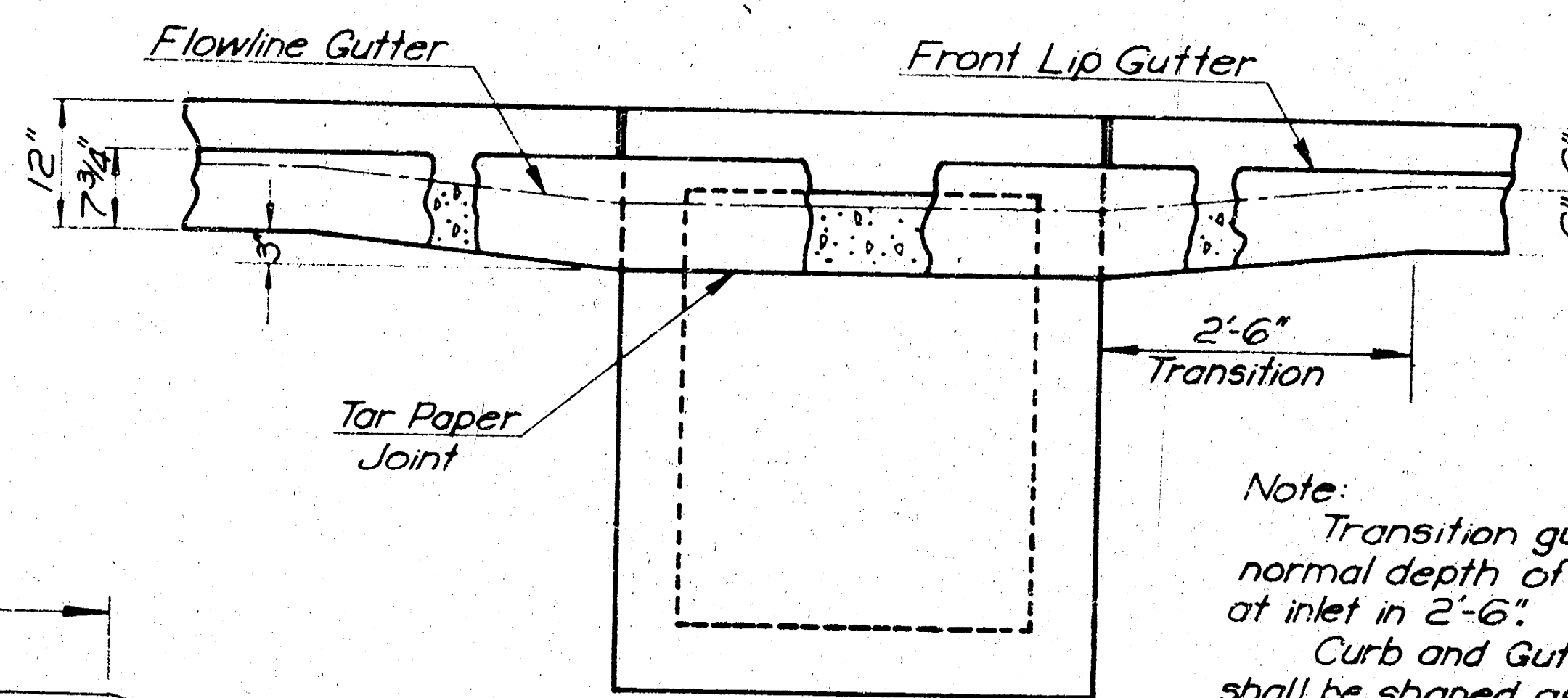
All bars are #4 bars @ 6" spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted on the plans.

Cast iron steps shall be installed in all storm sewer inlets with an H-dimension greater than 6 feet.

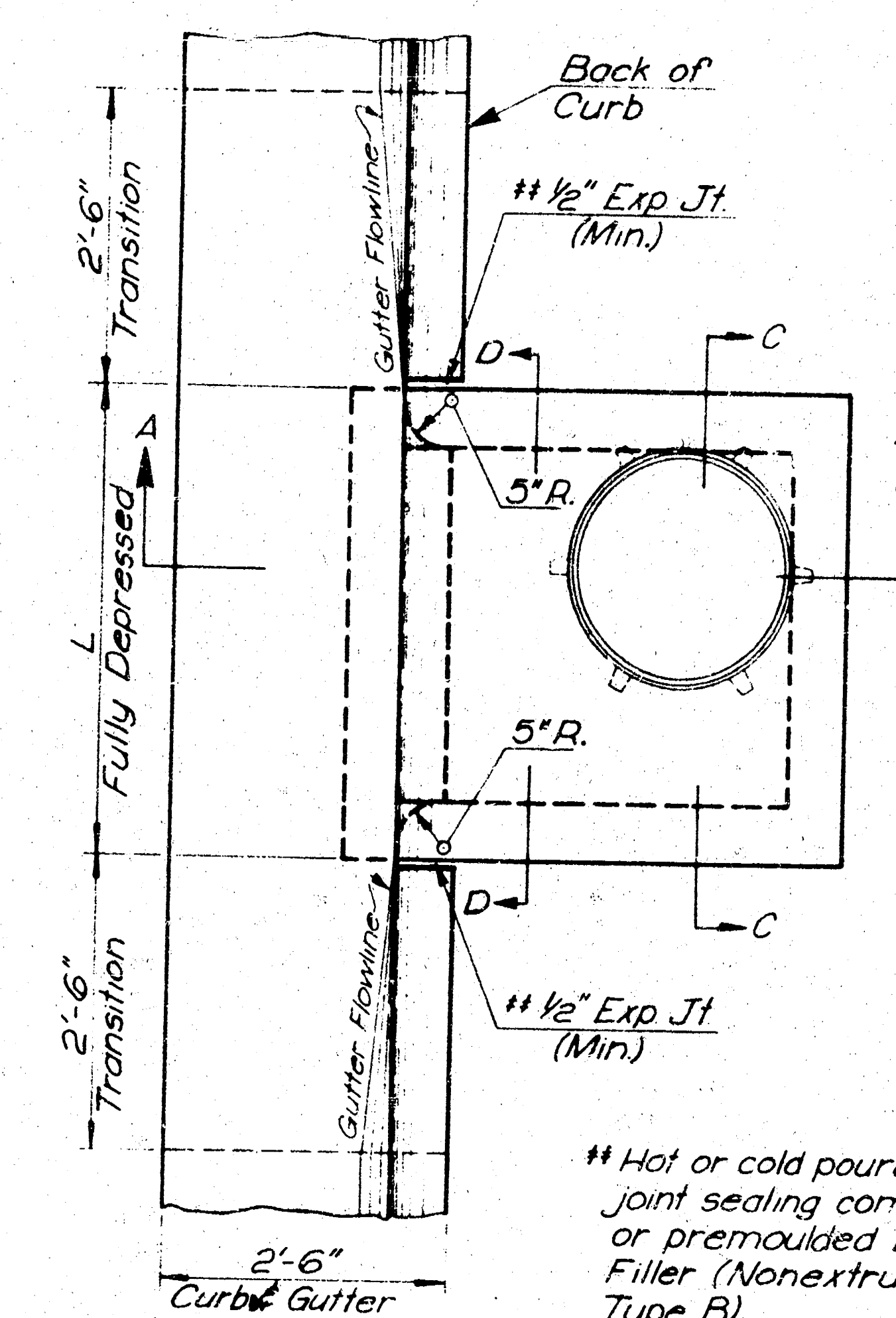
When directed by the Engineer, small openings may be required in the back of the inlet in order to drain a low area. Reinforcing bars will extend through the opening. No deductions in concrete quantities will be made for these openings.



CAST IRON STEP



Note:
Transition gutter from normal depth of 6" to 9" at inlet in 2'-6".
Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work will be subsidiary to other bid items.



PLAN

Hot or cold poured joint sealing compound, or preformed Exp. Jt. Filler (Nonextruding, Type B).

NOTE TO CONTRACTOR
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1 INLET AT CHLOE LANE
REINFORCING BAR LIST L=10.0' W=4.5' H=4.0'

Bar No.	Size	No. of Bars	Length
A	#4	2	2'-6"
A-1	#4	2	3'-0"
A-2	#4	14	9'-1"
B	#4	26	4'-3"
B-1	#4	2	3'-9"
C	#4	24	9'-9"
C-1	#4	4	7'-6"
C-2	#4	4	7'-3"
V	#4	18	2'-9"
V-1	#4	32	3'-9"
X	#4	2	5'-0"

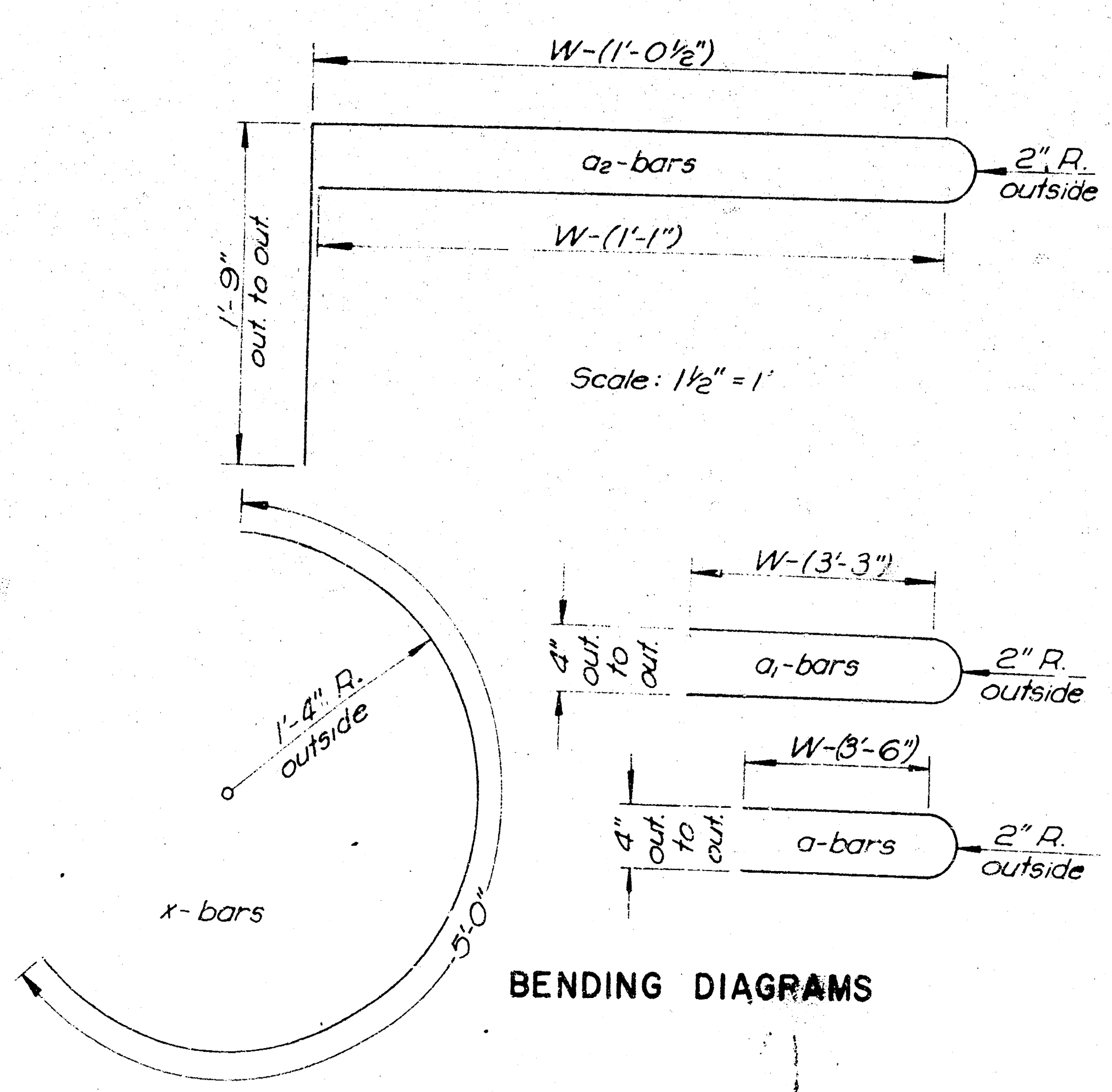
Cast Iron = 117 lbs. Rebar = 483 lbs.
Concrete = 3.0 C. Y. Exc. = 11.6 C. Y.

2 INLETS AT DOLL LANE
REINFORCING BAR LIST L=6.0' W=4.5' H=4.5'

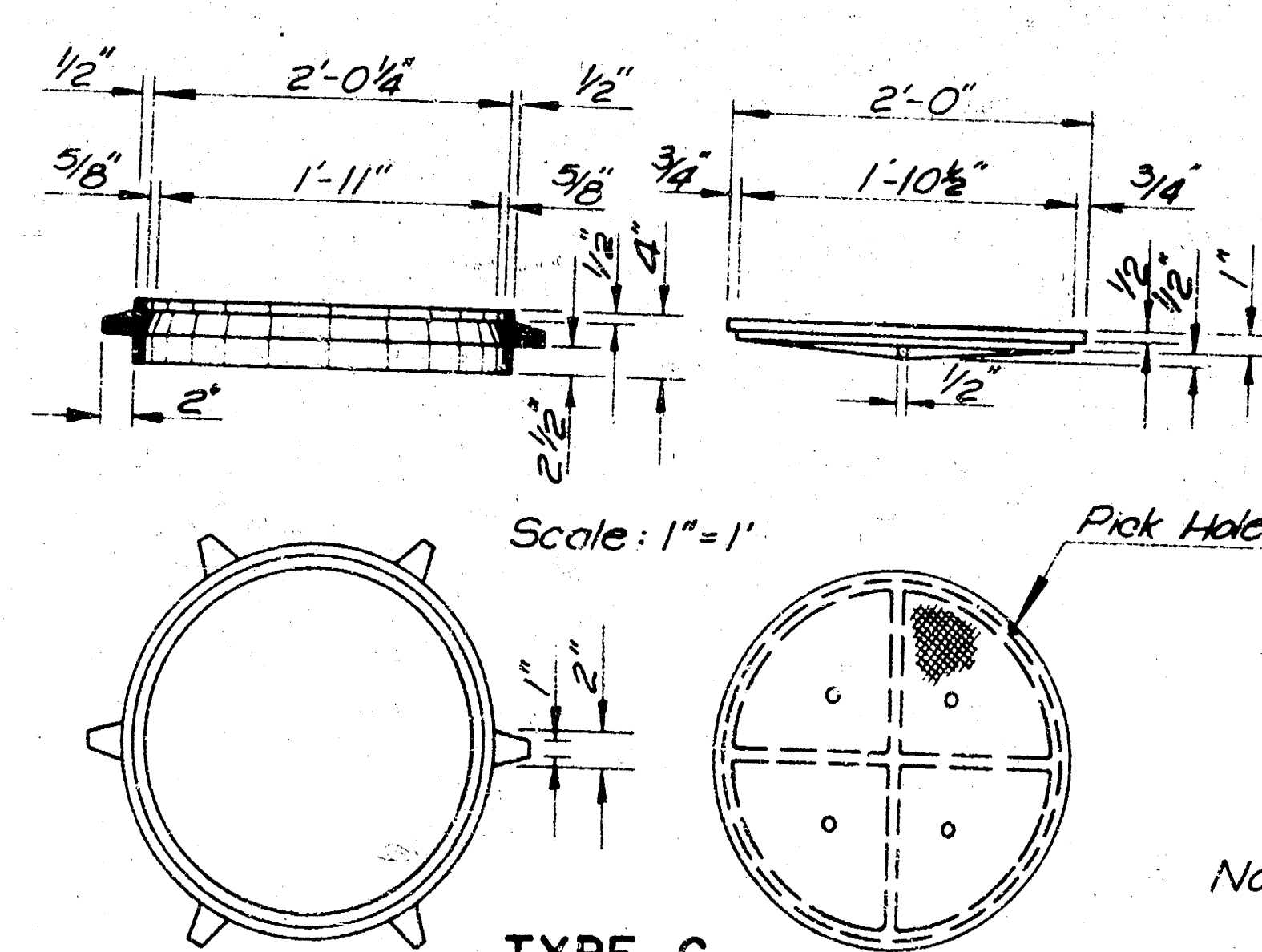
Bar No.	Size	No. of Bars	Length
A	#4	2	2'-6"
A-1	#4	2	3'-0"
A-2	#4	6	9'-1"
B	#4	20	4'-3"
B-1	#4	2	3'-9"
C	#4	26	5'-9"
C-1	#4	4	3'-6"
C-2	#4	4	3'-3"
V	#4	10	3'-0"
V-1	#4	24	4'-3"
X	#4	2	5'-0"

Cast Iron = 117 lbs. Rebar = 318 lbs.
Concrete = 2.1 C. Y. Exc. = 8.7 C. Y.

SECTION B-B



BENDING DIAGRAMS



TYPE C
CAST IRON MANHOLE RING
Weight = 53 Lbs.
CAST IRON MANHOLE COVER
Weight = 64 Lbs.
LIGHT TYPE MANHOLE COVER & RING

Note:
The weight of castings includes no allowance for fillets and overruns.
All castings shall be gray iron and shall comply with ASTM A-48 Class 25 S.

3-10-76 Revised Pay Item
12-1-75 Allow pay item, as AM. Math. Edg. tool
NO. DATE REVISIONS BY APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
TYPE 22
CURB INLET
STD. NO. 646
June 27, 1974

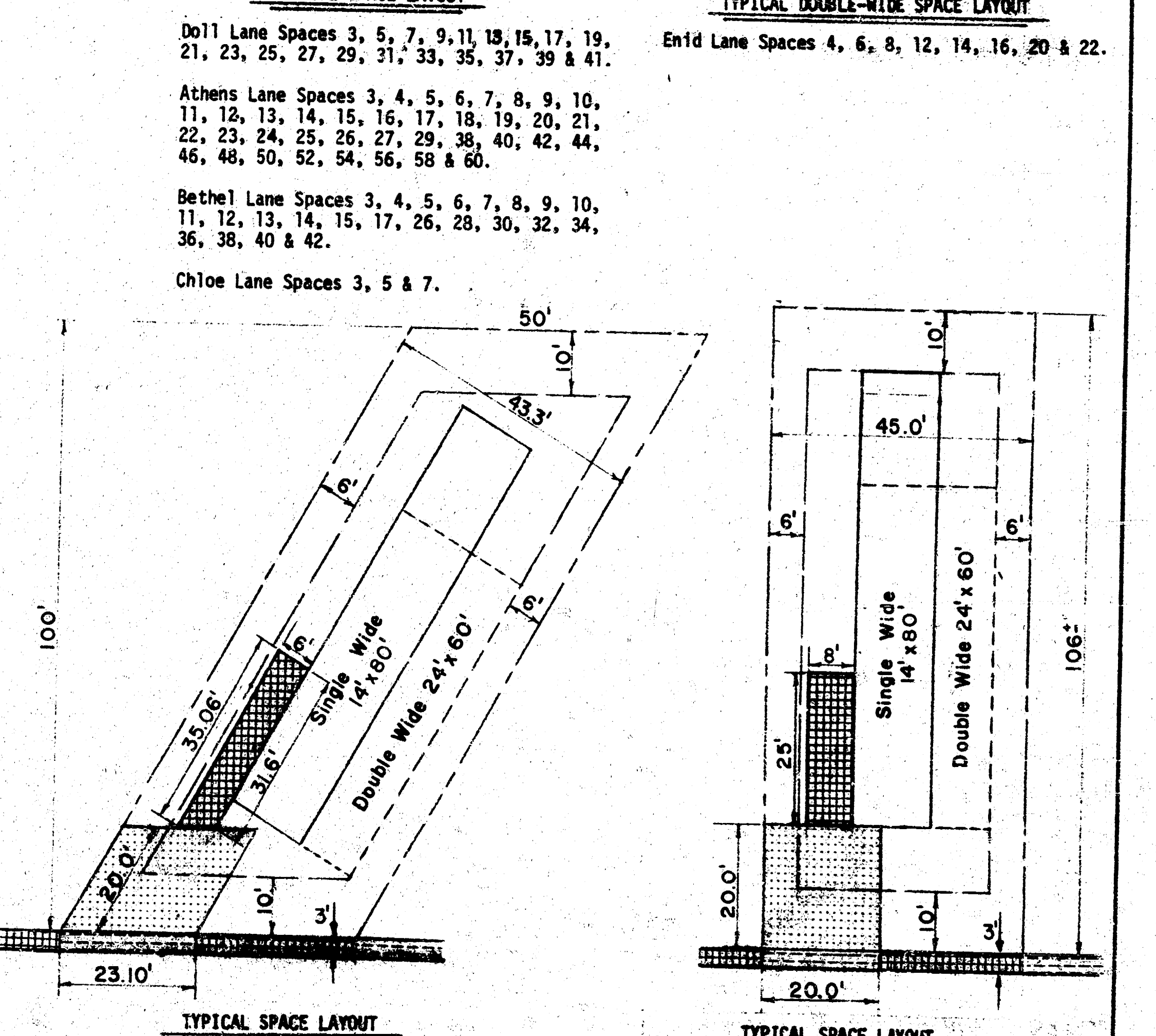
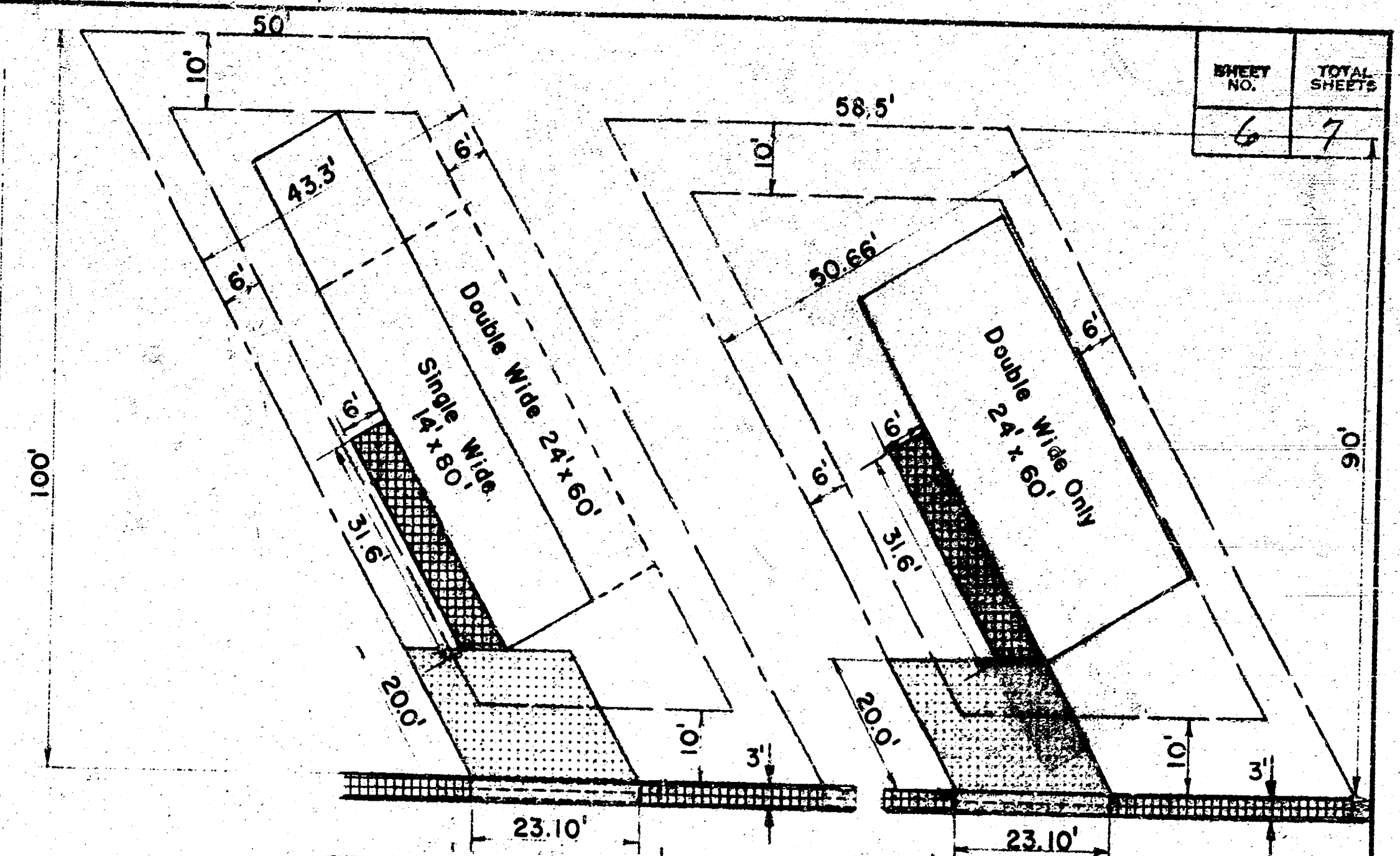
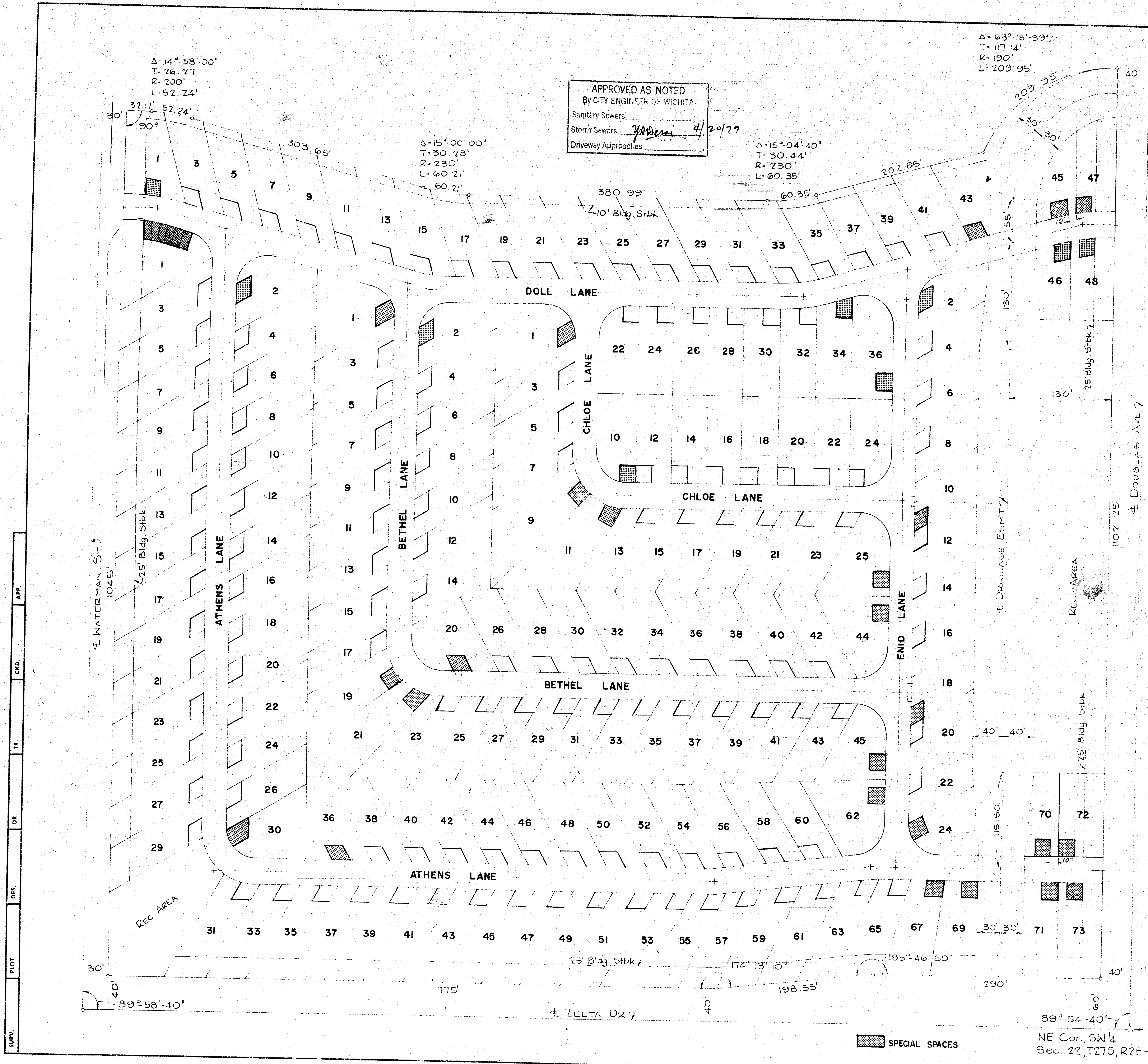
SHEET NO. OF
DESIGNED Seitz
CHECKED Seitz
SCALE 3/4\"/>

* Except where noted.

249-D-213

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- TYPICAL SPACE LAYOUT**
Athens Lane Spaces 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63 & 65.
- TYPICAL SPACE LAYOUT**
Bethel Lane Spaces 23, 25, 27, 29, 31, 33, 35, 37, 39, 41 & 43.
- TYPICAL SPACE LAYOUT**
Chloe Lane Spaces 13, 15, 17, 19, 21 & 23.
- TYPICAL SPACE LAYOUT**
Doll Lane Spaces 22, 24, 26, 28, 30 & 32.
- TYPICAL SPACE LAYOUT**
Chloe Lane Spaces 12, 14, 16, 18, 20, 22 & 24.

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LEGEND
4" THICK CONCRETE
6" THICK CONCRETE
4" THICK CONCRETE WITH 6X6-W6XW6 WOVEN WIRE MESH

SPECIAL SPACES
Doll Lane Spaces 1, 34, 36, 43, 45, 46 & 48.
Athens Lane Spaces 1, 2, 30, 36, 62, 67, 69, 70, 71, 72 & 73.
Bethel Lane Spaces 1, 2, 19, 20, 21, 44 & 45.
Chloe Lane Spaces 1, 9, 10, 11 & 25.
Enid Lane Spaces 2, 10, 18 & 24.

ENVIRONMENTAL ENTERPRISES INC.
CECIL MASTERS, PRES.; PAUL TREADWELL, SEC. TREAS.

LIFESTYLE MOBILE HOME PARK
TYPICAL AND SPECIAL SPACE LAYOUTS

DELAMATER, FREUND & ASSOCIATES P.A.
ENGINEERS & ARCHITECTS
WICHITA, KANSAS

DATE: _____
SCALE: _____
DWG. NO. 249-D-214

APPROVED AS NOTED