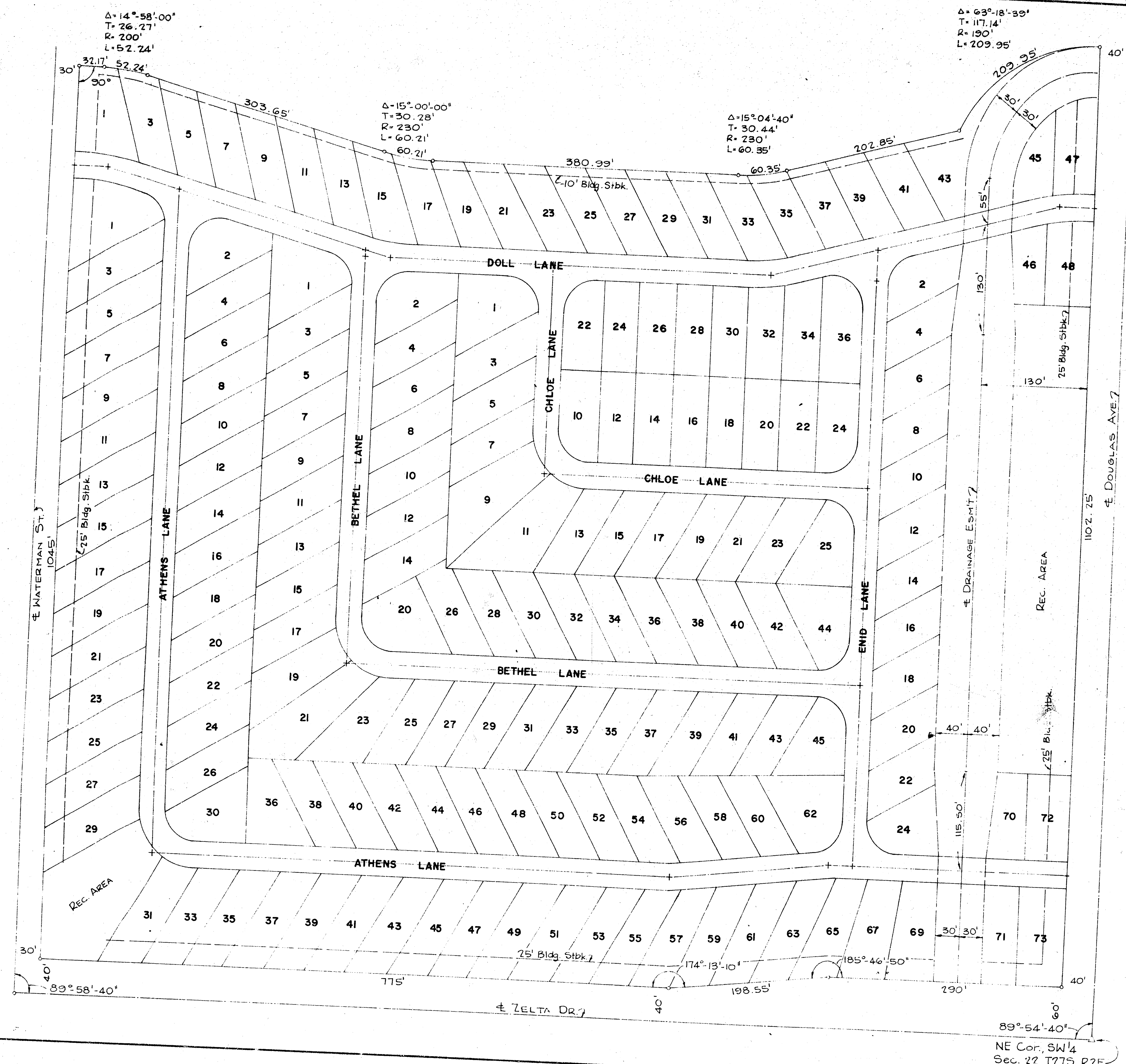
SHEET NO.	TOTAL SHEETS
1	7



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

INDEX OF SHEETS

CITY OF WICHITA

Approval does not relieve the contractor from responsibility for errors or omissions from the contract requirements or for any deficiencies of equipment, work, or materials.

Engineering Div.

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.

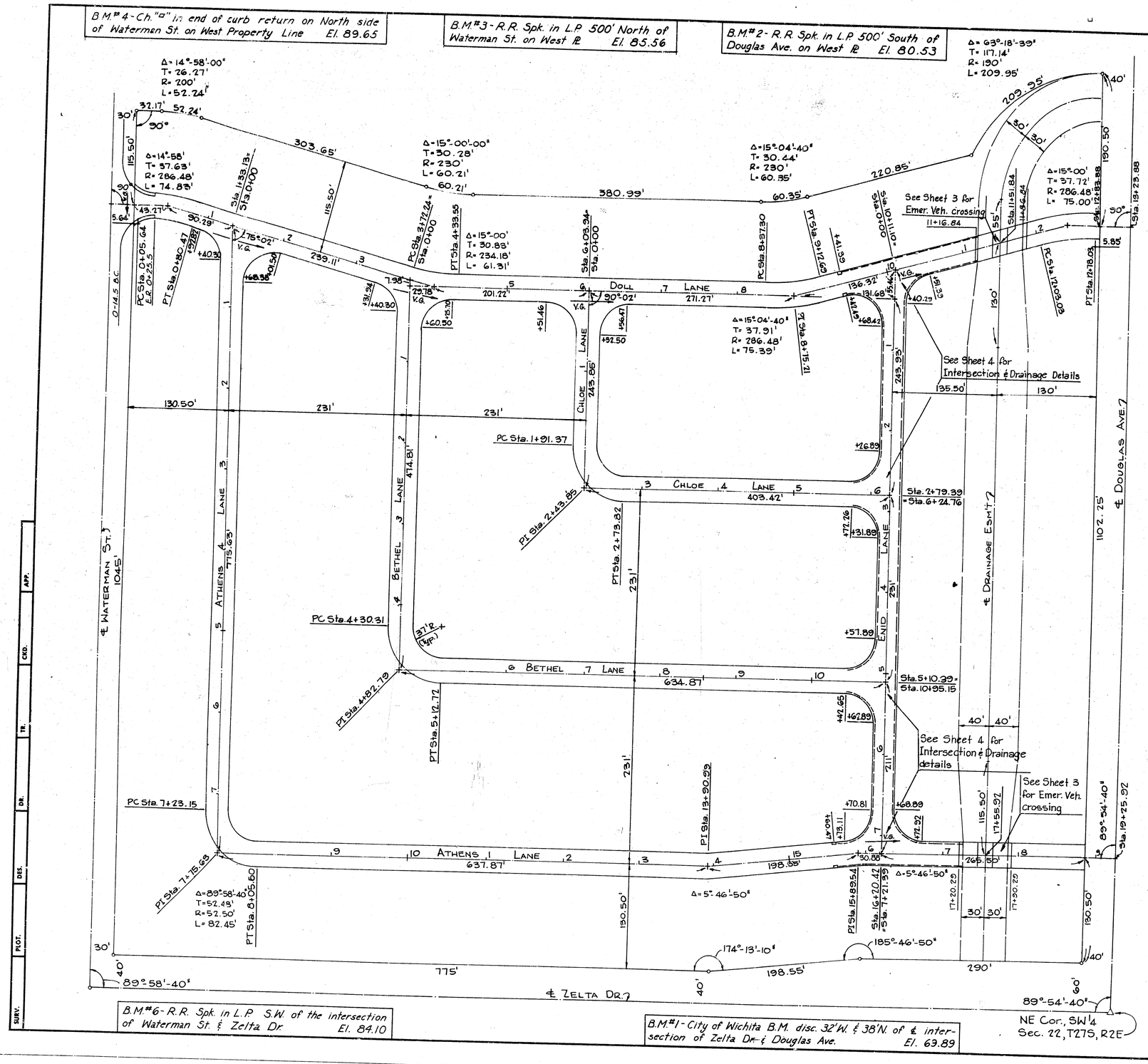
APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers
Storm Sewers 4/20/79

SCALE 1" = 60'

DAVID CHARLES SPEARS LICENSED 7864 KANSAS PROFESSIONAL ENGINEER

WILMER FREUND LICENSED 4529 KANSAS PROFESSIONAL ENGINEER

249-D-215



SHEET 2 OF TOTAL SHEETS 7

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

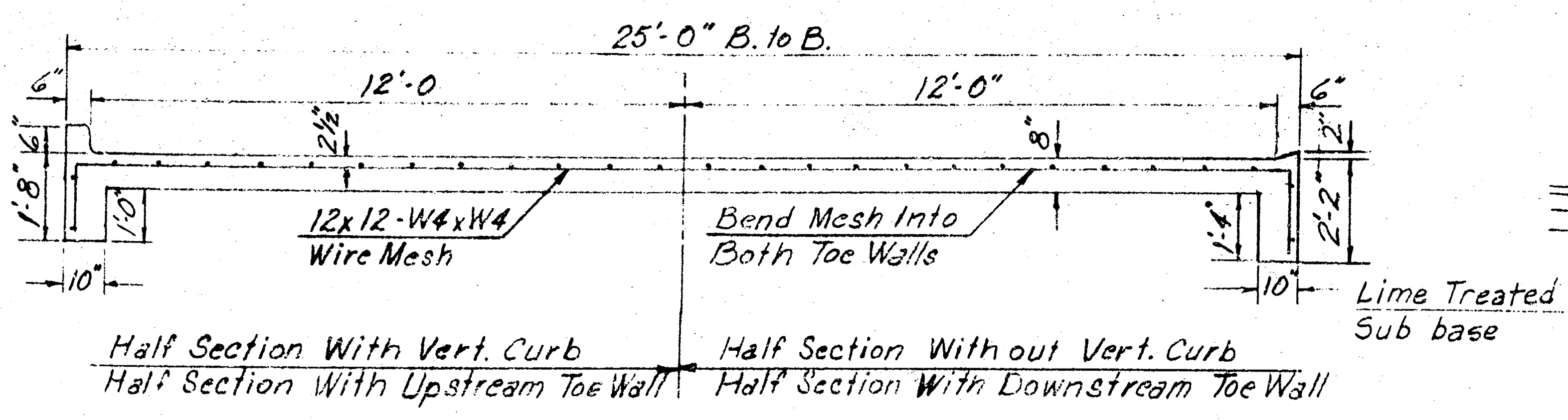
LIFESTYLE MOBILE HOME PARK

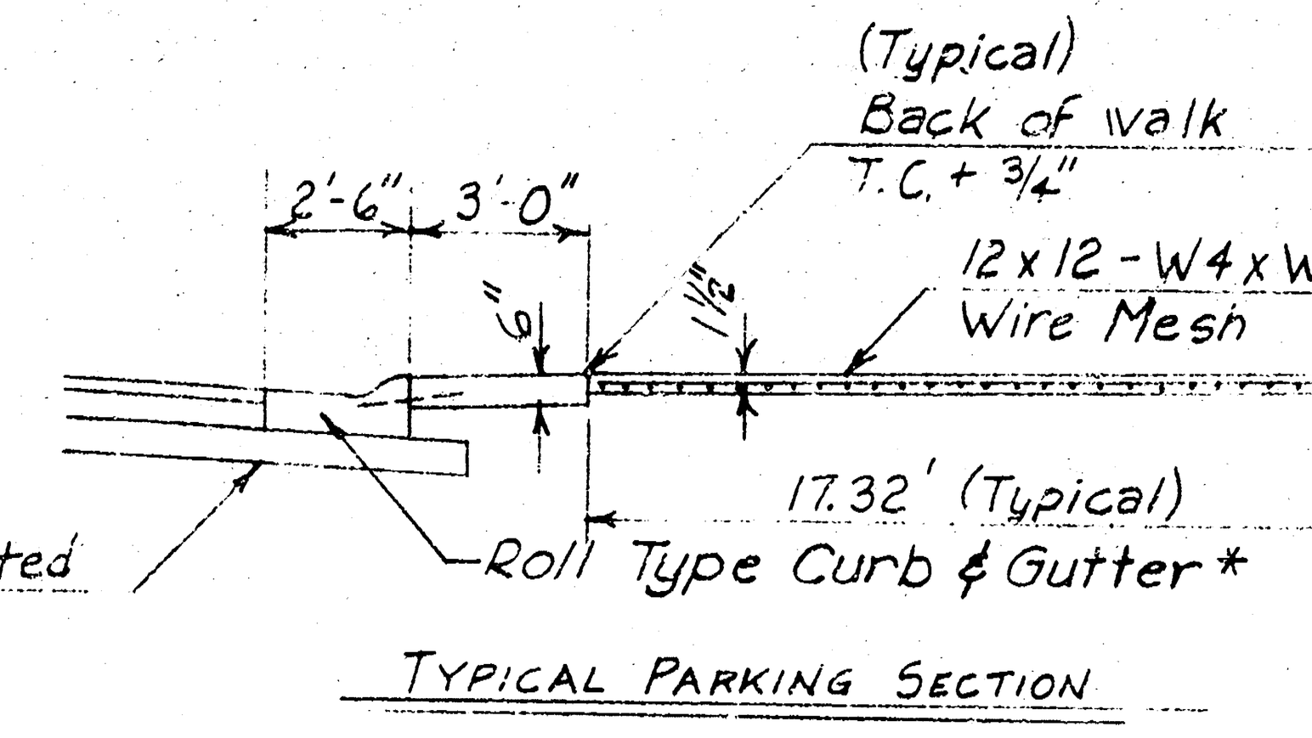
STREET ALIGNMENT

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

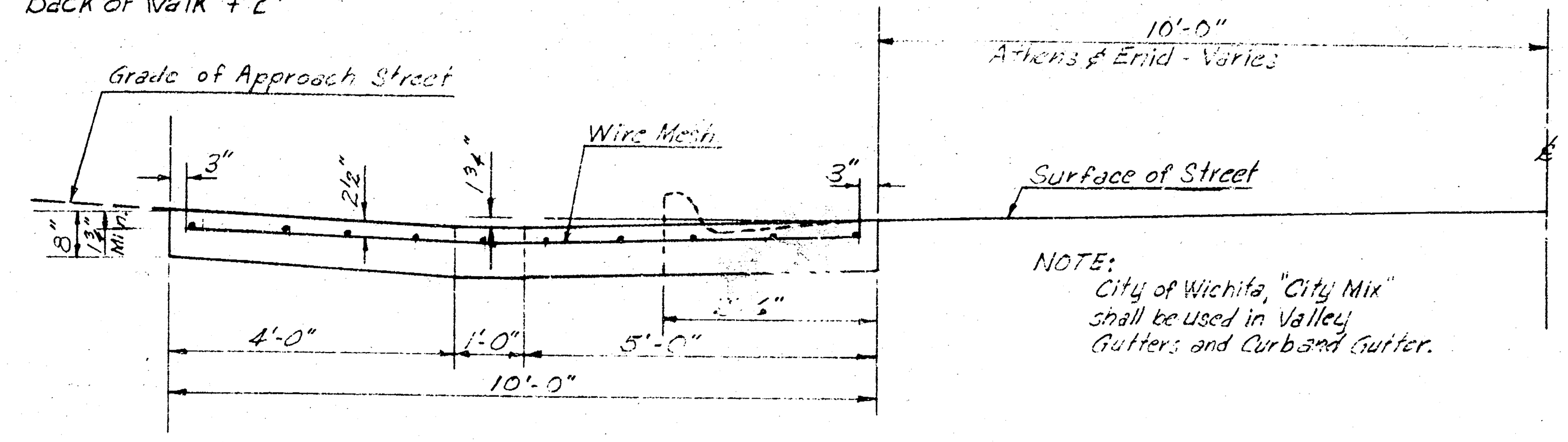
SCALE | DATE | DWG. NO. 249-D-201

SHEET NO.	TOTAL SHEETS
3	7

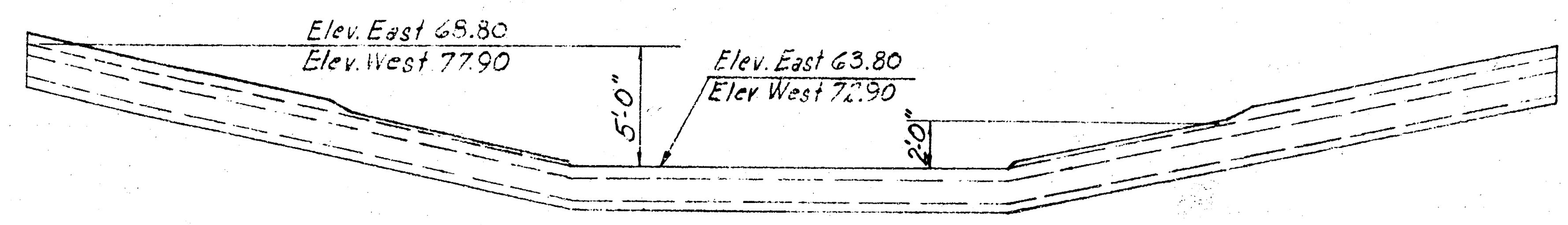




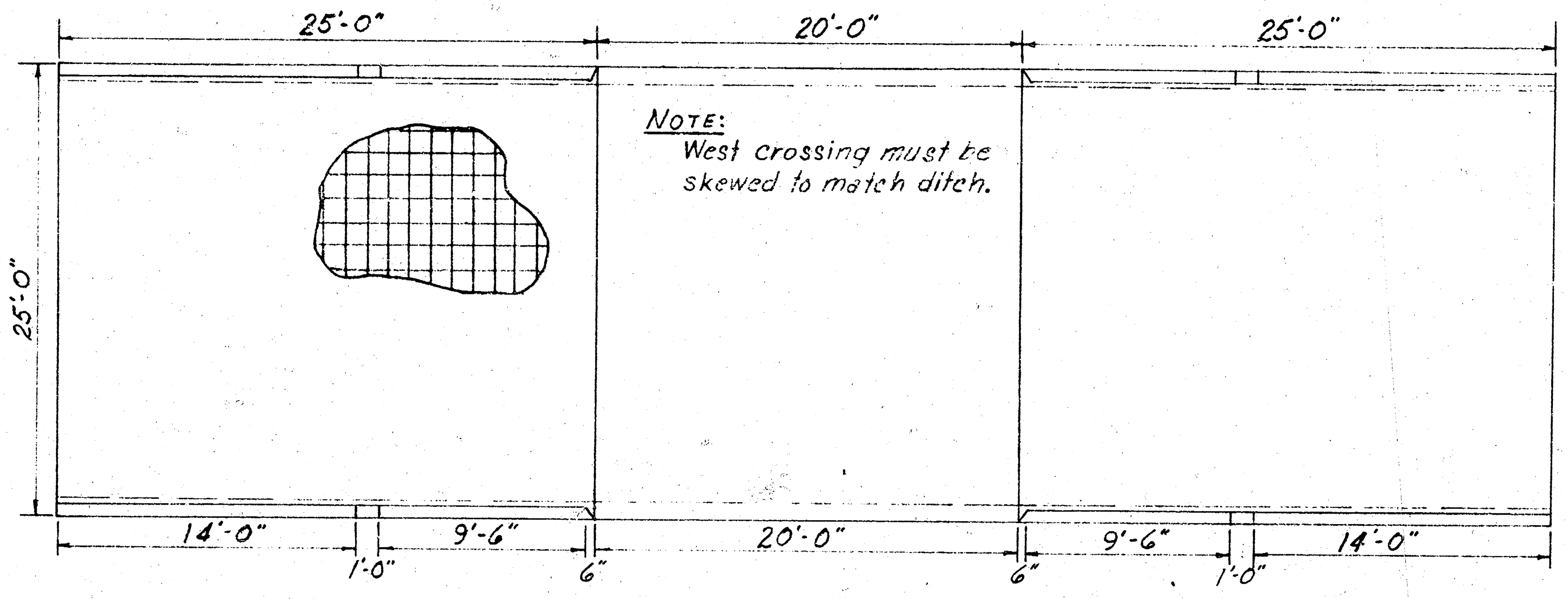
TYPICAL PARKING SECTION



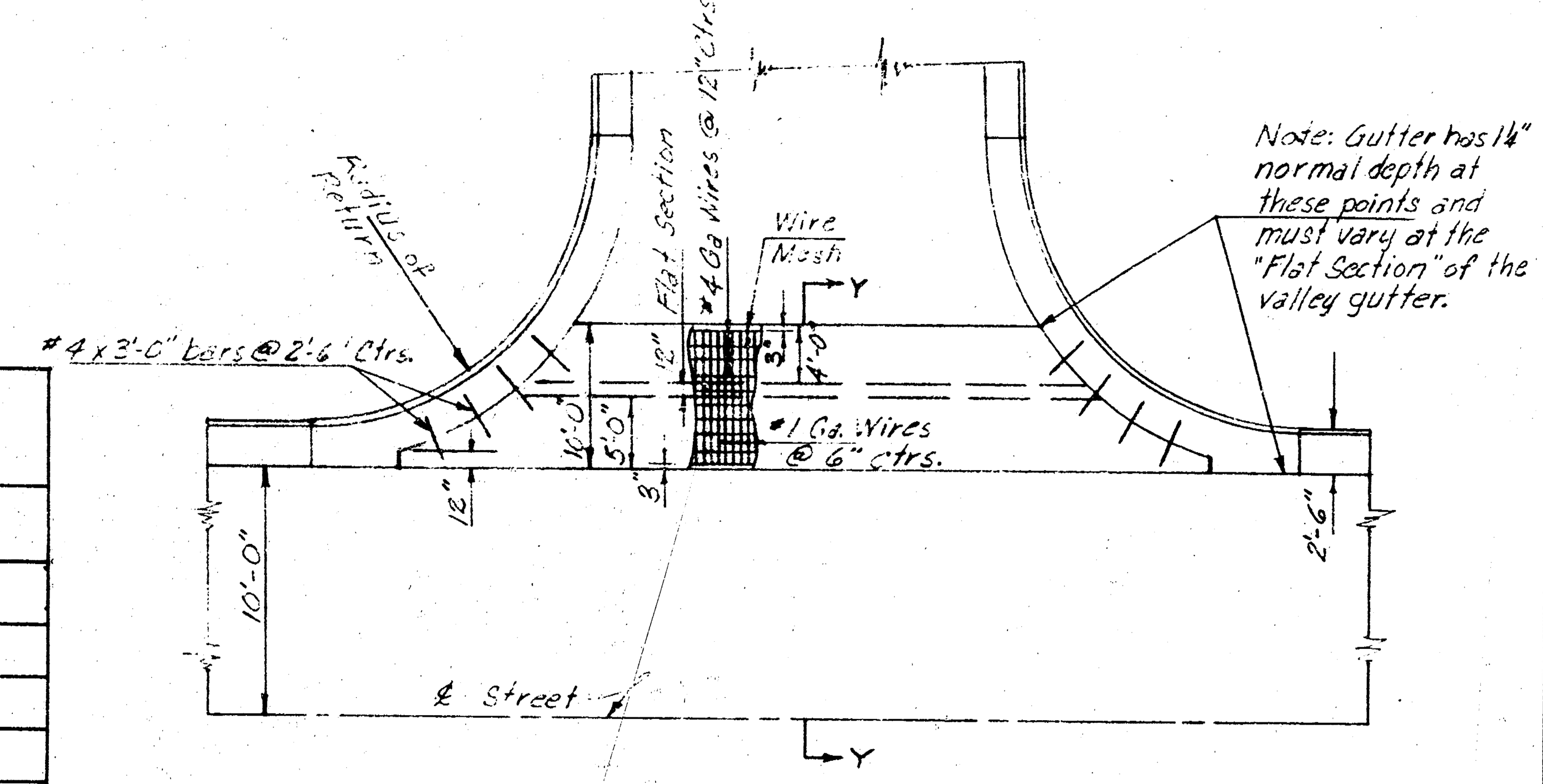
SECTION Y-Y



SECTION EMERGENCY VEHICLE CROSSING

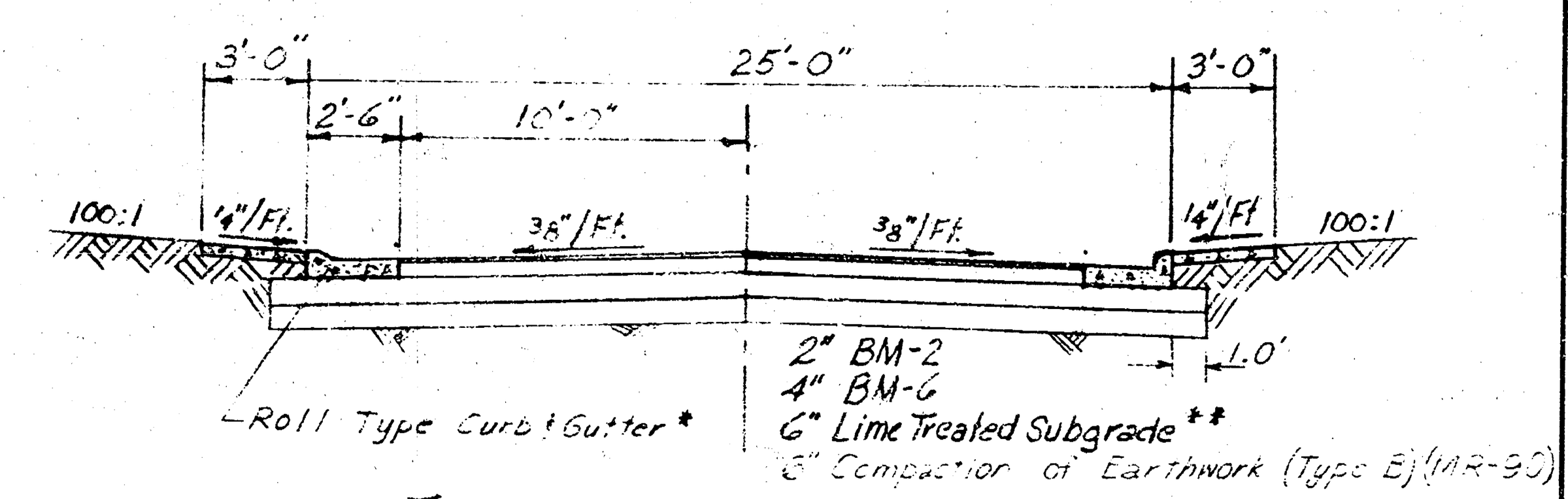


PLAN EMERGENCY VEHICLE CROSSING



VALLEY GUTTER PLAN

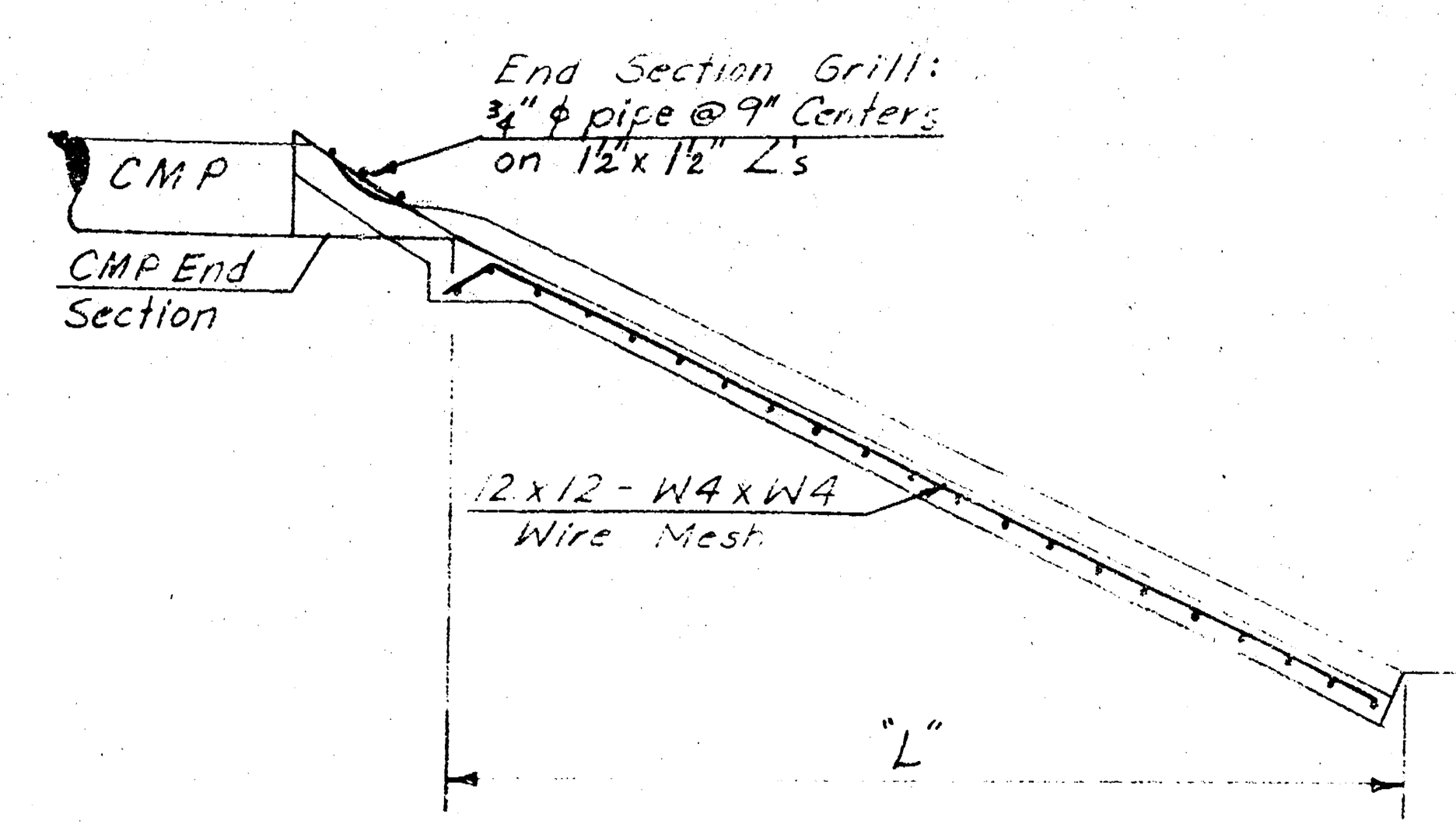
SUMMARY OF QUANTITIES		
ITEM	QUANTITY	UNIT
EXCAVATION (STORM SEWER)	254	CU. YD.
COMPACTION OF EARTHWORK (TYPE B) (MR-90)	2,825	CU. YD.
LIME TREATED SUBGRADE (6")	16,945	SQ. YD.
2" BITUMINOUS PAVEMENT (BM-2)	12,387	SQ. YD.
4" BITUMINOUS PAVEMENT (BM-6)	12,387	SQ. YD.
VALLEY GUTTERS (8" UNIFORM) (AE)	8	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
WOVEN 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.



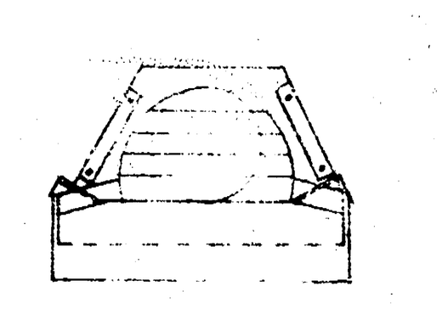
TYPICAL ROAD SECTION

* Except as otherwise noted on Street Alignment Plan, Sheet 2.

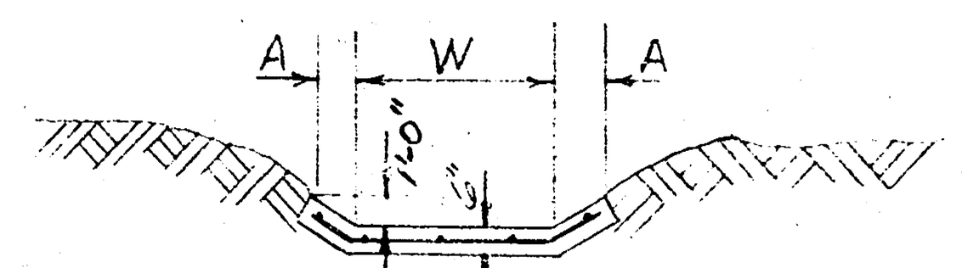
** Percentage of Lime in Lime Treated Subgrade shall be sufficient to produce a 6" subgrade with a Maximum P.I. = 10 and a Minimum CBR = 50.



SECTION C-C

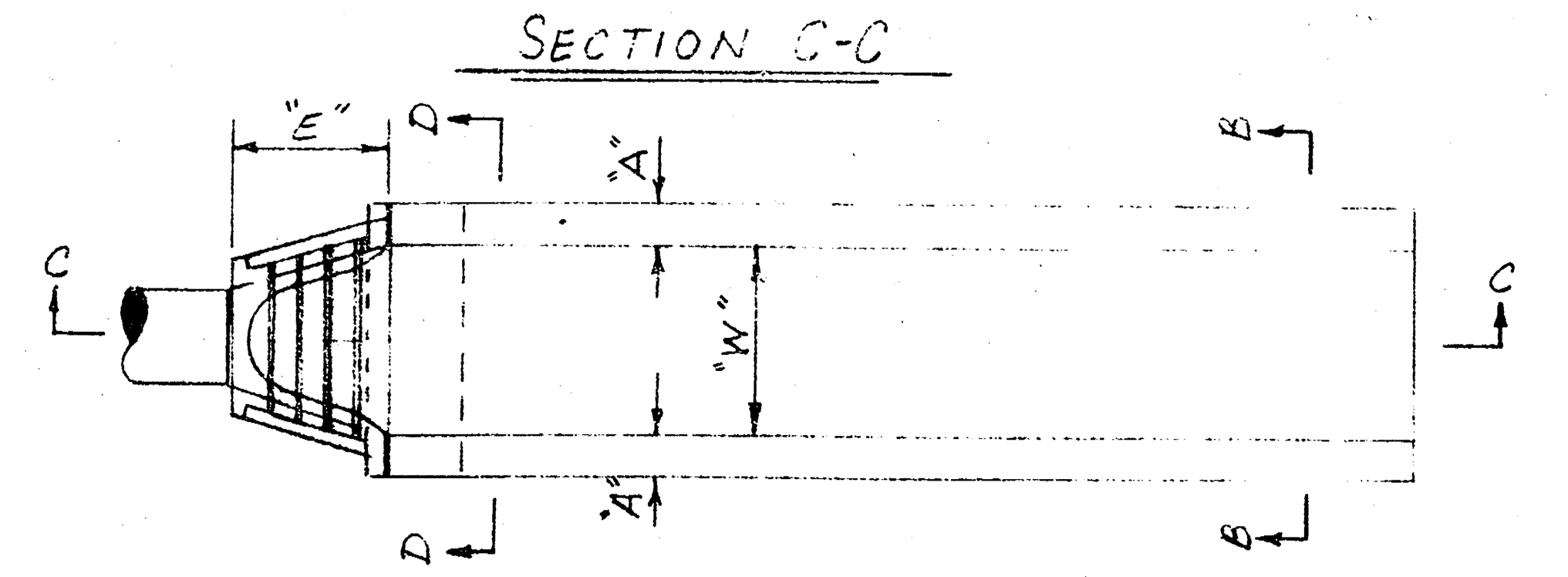


SECTION D-D



SECTION B-B

Pipe Size	W	A	L	E
18"	36"	16"	20.0'	31"
21"	42"	18"	23.0'	36"
24"	48"	20"	20.0'	41"
30"	60"	24"	20.0'	51"



FLUME PLAN

NOTE TO CONTRACTOR

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

SURV. | PLOT. | DES. | DR. | TR. | CKD. | APP.

249-D-212

PLAT 2 - PLAN - PROFILE - F.A.S.
CLEARPRINT PAPER CO. S. F. CAL. NO. 1000H-2

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
CHECKED
STRUCTURE NUMBERS INKED

PLAN
SURVEYED
PLOTTED
NOTE BOOK
CHECKED
R.P. OR WAY CHECKED

ATHENS LANE
ENID LANE
CHLOE LANE
DOLL LANE
BETHEL LANE
Water 2
Sanitary Sewer
8" Water
8" San. Sewer
Inlet Details, L=10'
See Sheet 5 for Inlet Details, L=15'
See Sheet 3 for Flume Details
See Sheet 5 for Inlet Details, L=6'
TYPE 3 RIPRAP
TYPE 3 DITCH
Ditch Flowline
Q100 = 32.3 cfs
Q100 = 13 cfs
Q100 = 21.1 cfs
Q100 = 22.6 cfs
Sta. 15+60.47 Ahern's Lane
Sta. 15+60.47
APPROVED AS TO
BY CITY ENGINEER
Driveway Applications
NOTE TO CONTRACTOR
SHEET NO. 4
TOTAL SHEETS 7

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

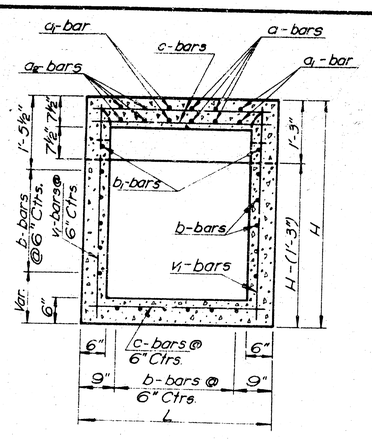
Bar No.	Size	No. of Bars	Length
A	#4	2	2'-6"
A-1	#4	2	3'-0"
A-2	#4	14	9'-1"
B	#4	28	4'-3"
B-1	#4	2	3'-9"
C	#4	26	9'-9"
C-1	#4	4	7'-6"
C-2	#4	4	7'-3"
V	#4	18	2'-9"
V-1	#4	32	4'-0"
X	#4	2	5'-0"

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

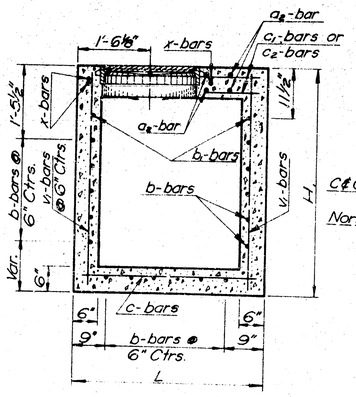
1 INLET AT BETHEL LANE
REINFORCING BAR LIST L= 15.0' W= 4.5' H= 4.5'

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"

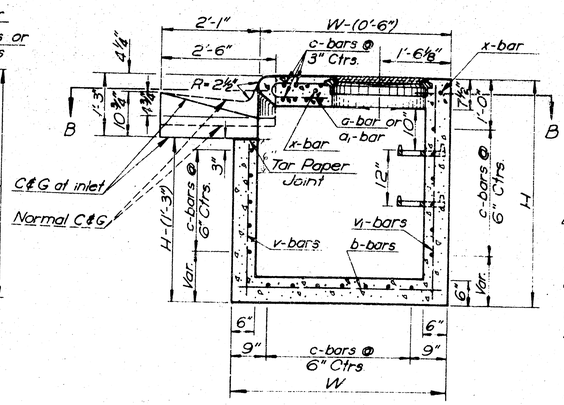
Cast Iron = 117 lbs. Rebar = 771 lbs.
Concrete = 4.7 C. Y. Exc. = 18.5 C. Y.



SECTION D-D



SECTION C-C

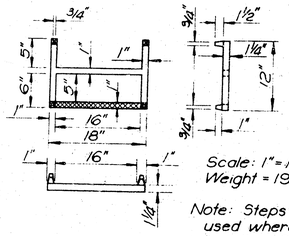


SECTION A-A

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 slipform Pvt 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.

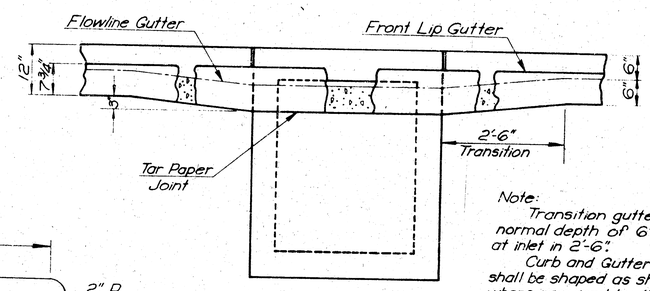
Floor of inlet shall be shaped as directed by the Engineer. Concrete used for shaping shall be unreinforced Class A Concrete. No addition in concrete quantities shall be made for shaping floor of inlets.
All bars are #4 bars @ 6" spacing and shall have a minimum clearance of 1½" unless otherwise noted 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.



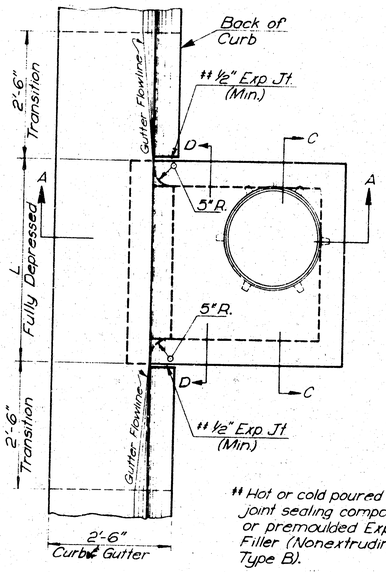
Scale: 1"=1'
Weight = 19 lbs.

Note: Steps not to be used where "H" is less than 6 feet.

CAST IRON STEP

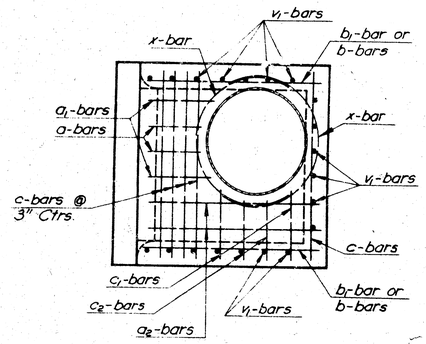


Note:
Transition gutter from normal depth of 6" to 9" at inlet in 2'-6".
Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work will be subsidiary to other bid items.

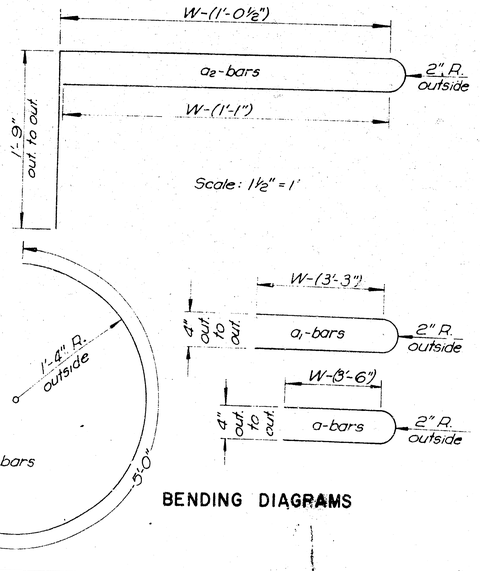


** Hot or cold poured joint sealing compound, or premoulded Exp. Jt Filler (Nonextruding, Type B).

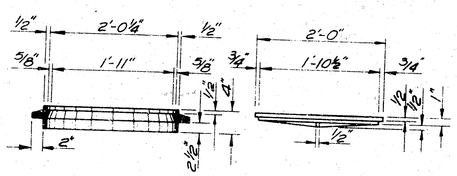
PLAN



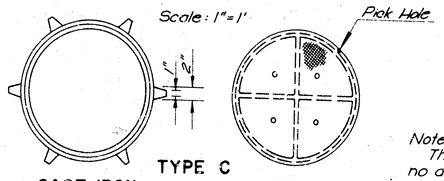
SECTION B-B



BENDING DIAGRAMS



Scale: 1"=1'



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.

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'-0"
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.

NO	DATE	REVISIONS	BY	APP'D
3				
2	3-10-76	Revised Pay Item	W.L.H.	L.R.P.
1	12-1-75	Allow pavt core, as Alt. Meth. Edg. tool	W.L.H.	L.R.P.

KANSAS DEPARTMENT OF TRANSPORTATION

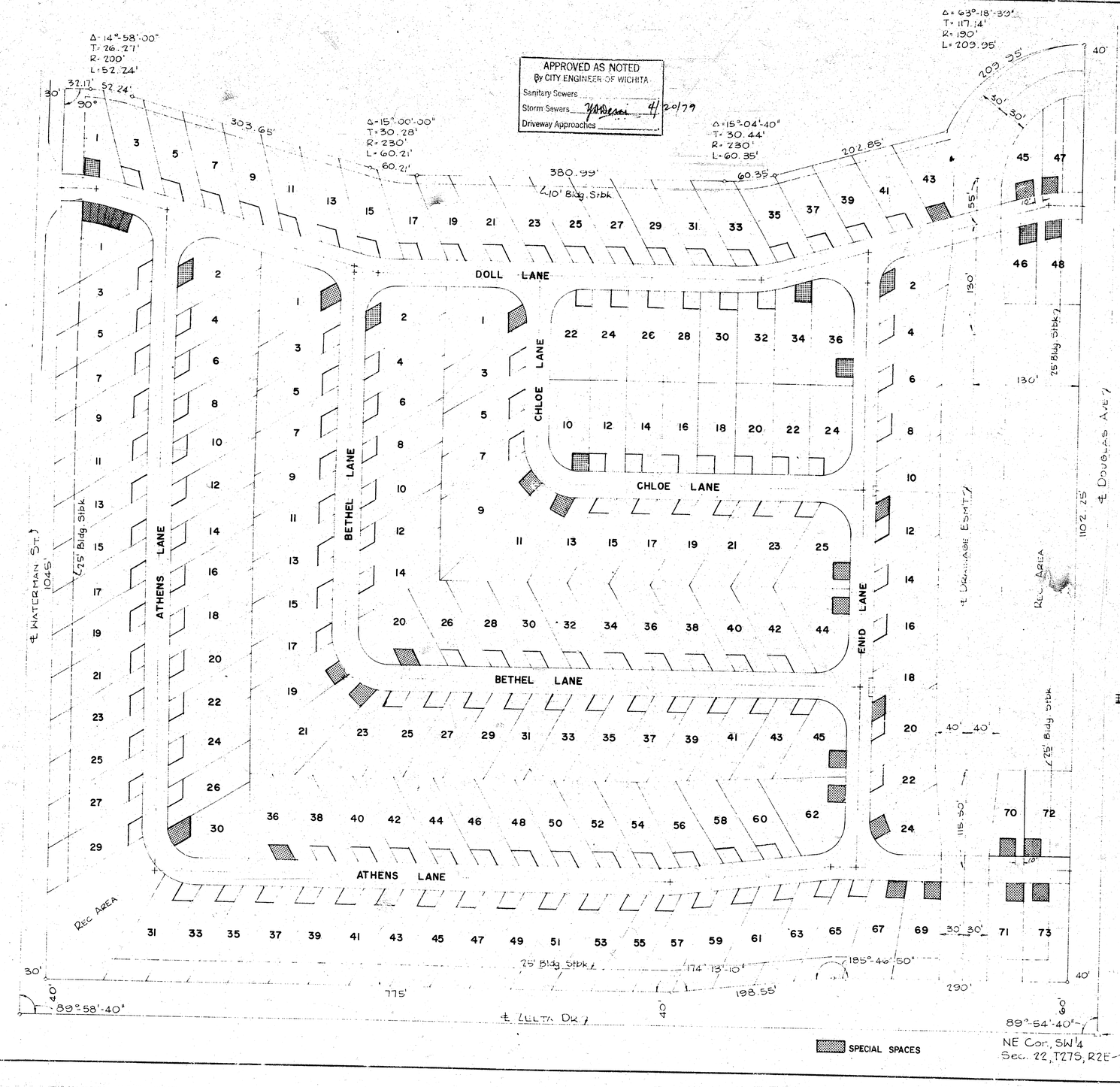
TYPE 22
CURB INLET
STD. NO. 646
June 27, 1974

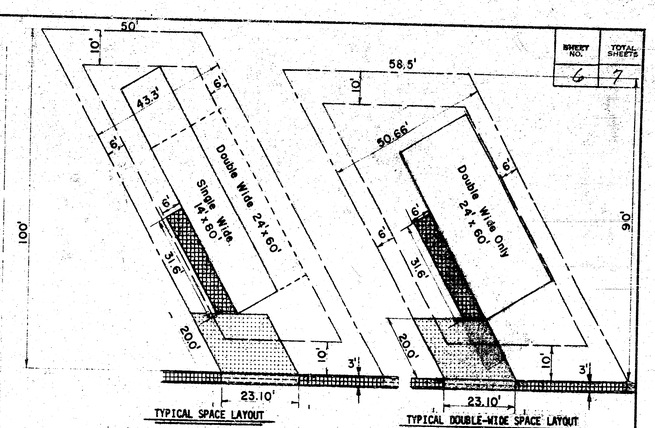
SHEET NO OF	SCALE 3/4"= 1'	APP'D	
DESIGNED Seitz	DETAILED	QUANTITIES Seitz	TRACED D. Liester
DESIGN CK	DETAIL CK Hecht	QUAN CK	TRACE CK Hecht

* Except where noted.

249-D-213

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers
Storm Sewers 4/20/79
Driveway Approaches





Doll Lane Spaces 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39 & 41.

Athens Lane Spaces 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58 & 60.

Bethel Lane Spaces 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 26, 28, 30, 32, 34, 36, 38, 40 & 42.

Chloe Lane Spaces 3, 5 & 7.

Enid Lane Spaces 4, 6, 8, 12, 14, 16, 20 & 22.

Athens Lane Spaces 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63 & 65.

Bethel Lane Spaces 23, 25, 27, 29, 31, 33, 35, 37, 39, 41 & 43.

Chloe Lane Spaces 13, 15, 17, 19, 21 & 23

NOTE TO CONTRACTOR

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LEGEND

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

SCALE 1"=60'

Doll Lane Spaces 22, 24, 26, 28, 30 & 32.

Chloe Lane Spaces 12, 14, 16, 18, 20, 22 & 24.

SPECIAL SPACES

Doll Lane Spaces 1, 34, 36, 43, 45, 46, 47 & 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.

SHEET NO.	TOTAL SHEETS
6	7

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

SCALE | DATE | DWG. NO. 249-D-214

APP. | CKD. | TR. | DR. | DES. | PLOT. | SURV.

NOTE TO CONTRACTOR
This project will be constructed under the supervision of the CITY ENGINEER

APPROVED AS NOTED