

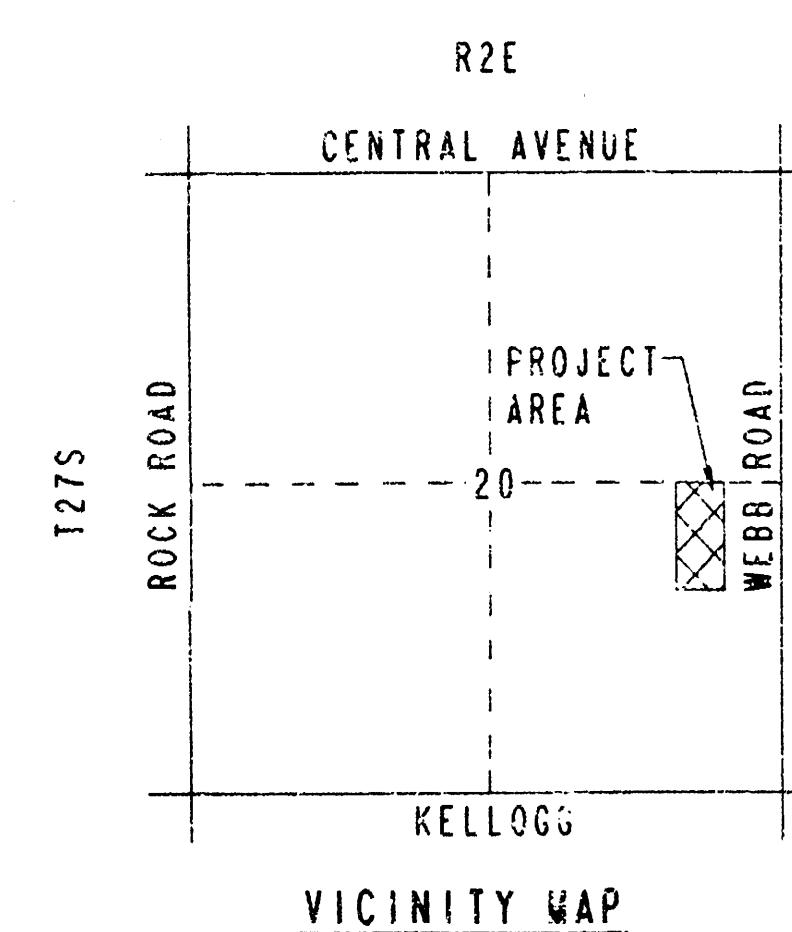
SHEET NO.	TOTAL SHEETS
1	10

PLANS FOR STORM WATER SEWER IMPROVEMENTS

FOR
LOT 2
PHI ADDITION
CITY OF WICHITA PRIVATE PROJECT NO. 491PPS (607861)

INDEX OF SHEETS

1. TITLE SHEET
2. DRAINAGE DETAILS
3. DRAINAGE PLAN
4. SWS PROFILES
5. TYPICAL SECTIONS & DRAINAGE DETAILS
6. R. C. MANHOLE DETAILS
7. MANHOLE FRAME & COVER DETAIL
8. STANDARD TYPE 1A CURB INLET
9. PLAT



AUGUST, 1994

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____
STORM SEWERS VRH 9/1/94
DRIVEWAY APPROACHES _____
WATER MAINS _____
PAVING _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

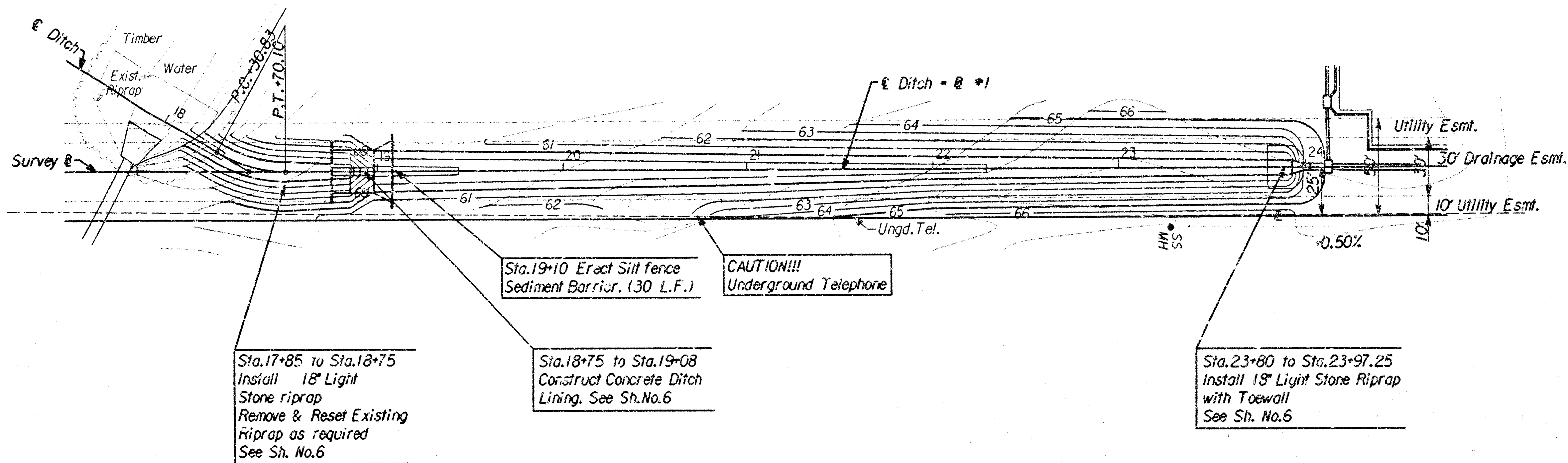


DRAWING NAME: 36-94-020 TITLE
LOCATION: 36-94-020
DATE LAST WORKED ON:
DAR CRONK

Curve Data
P.I. Sta. 18+50.93 (Bk.)
P.I. Sta. 18+50.00 (Ahd.)
Sta. 18+50.00
Δ=30°00'00"
D=76°23'40"
R=75.00'
T=20.10'
L=39.27'
E=2.65'

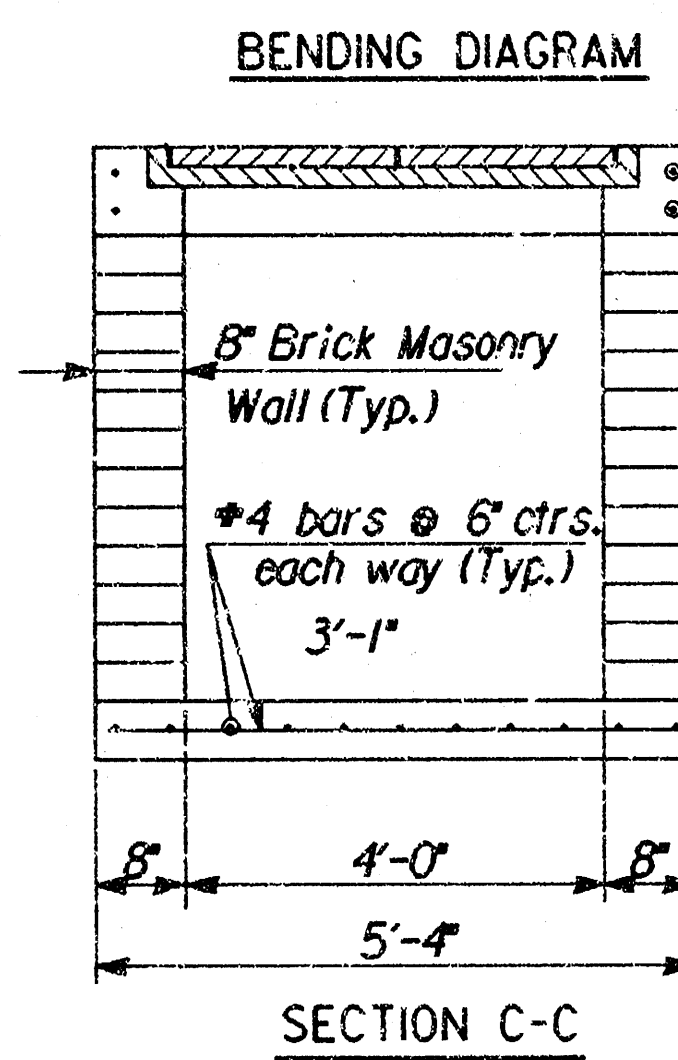
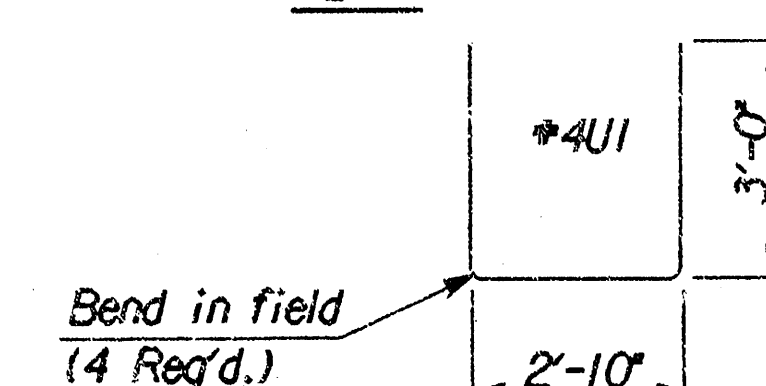
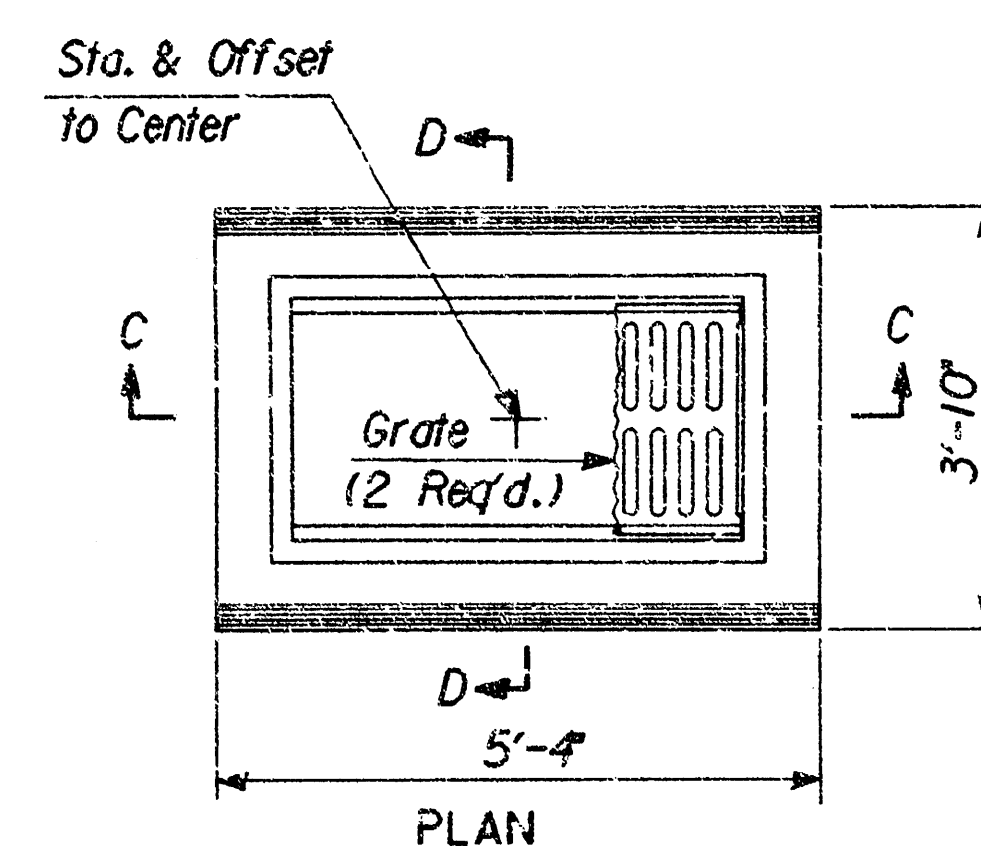
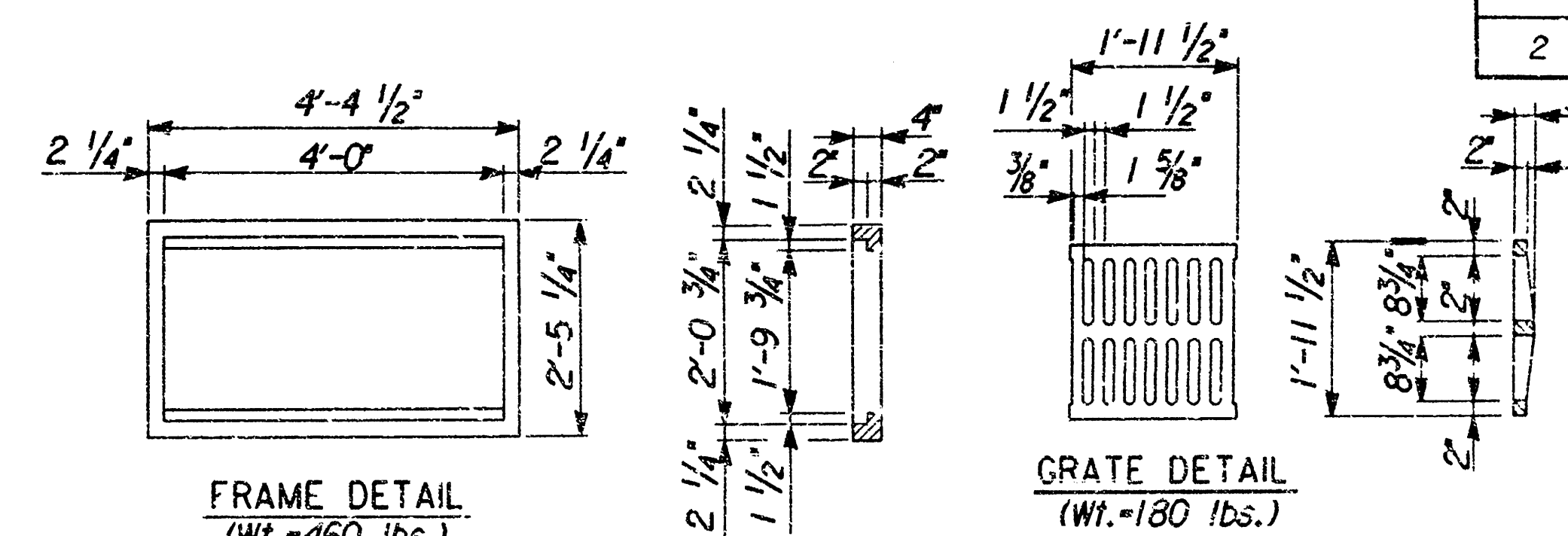
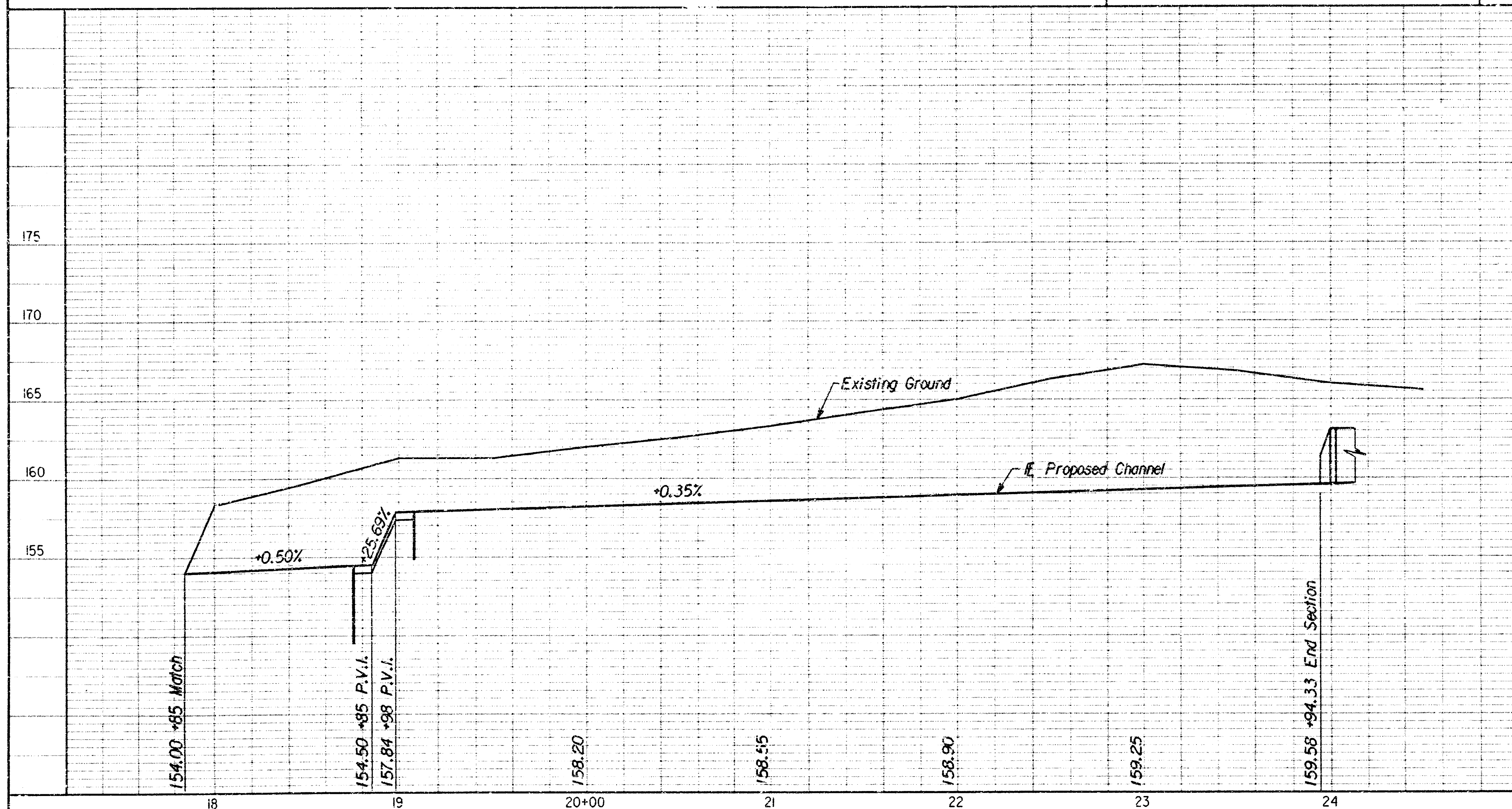
SCALE: 1"=40'

SHEET NO.	TOTAL SHEETS
2	10



Note: All disturbed areas Sta. 17+85 to Sta. 24+00 are to be seeded, fertilized, and mulched at the following rates:
Prairie Hay Mulch 1500 lbs./acre
K-31 Fescue 300 lbs./acre
Fertilizer 10-20-10 350 lbs./acre

B.M. - CHISELED "C" & CONCRETE SLAB OF FIBER OPTICS MH. ELEV. = 176.11



AREA INLET (TYPE II)

GENERAL NOTES
ALL EXPOSED EDGES OF CONCRETE SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.
REINFORCING STEEL SHALL BE A MINIMUM GRADE 40, A.S.T.M. A615. ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO THE CENTERLINE OF BARS UNLESS OTHERWISE NOTED.
INLET CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
INLET FLOOR SHALL BE SHAPED WITH UNREINFORCED CLASS III CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

DITCH PLAN AND PROFILE
STA. 17+85.0 TO STA. 23+94.33

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 36-94320
Designed By: MMB
Drawn By: JGP
Date: 8-15-94

No.	Revisions	By	Date
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

DRAINAGE DETAILS
SEDGWICK COUNTY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed By: MMB, DRC
Checked By: JGP
Date: AUG., 1994
Job No. 94320

SHEET NO.	TOTAL SHEETS
3	10

LEGEND

2" Irr. Irrigation Sleeve Location & Size
Use Schedule 40 Steel Pipe
18" Below Grade.

Install 291.6 LF. 18" RCP

Sta. 20+33.4, Line No. 1A
Construct Std. Type 1A
Curb Inlet
L=6'-4", W=4'-4", H=3.13
Top Elev.=163.30
R. In=159.98 (W)
R. Out=159.88 (E)

Sta. 10+10 Line No. 1
Sta. 20+12.50 @ #1
Construct R. C. Manhole
L=4'-6", W=6'-6", H=6.00, HT=0.70'
Top Elev.=165.00
R. In=159.78 (W)
R. Out=159.68 (S)

Sta. 10+00 Line No. 1
Sta. 20+02.50 @ #1
Install 42" R.C. End Section
R. Out=159.60

Install 33.4 LF. 18" RCP

Install 10.0 LF. 42" RCP

BM - CHIS. SQUARE S. @ CONG. SLAB OF FIBER OPTIC
CABLE MANHOLE AT NE COR. YMCA
ELEV.=176.11

Sta. 12+36.8, Line No. 1 - Sta. 26+39.3
Construct R. C. Manhole over Existing
36" RCP
L=8'-0", W=5'-9", H=7'-9", HT=0.99'
Top Elev.=167.90
R. In=161.19 (NNW)
R. In=163.52 (NE)
R. Out=160.69 (S)

CAUTION! Buried
Telephone Cable
(Private)
Contact Architect prior
to excavation

6" SS Service Line
(min. pipe slope 1%)

30" Drainage Esmt.

10" Utility Esmt.

Install 226.8 LF. 36" RCP

FINISHED FLOOR
ELEV. = 170.00

Sta. 16+85.0, Line No. 1
Construct R. C. Manhole
L=4'-6", W=4'-6", H=5'-9", HT=1'-0"
Connect to RL
R. In=165.00 (S)
R. In=163.15 (SW)
R. Out=163.10 (E)

Sta. 17+90.4, Line No. 1
Construct Area Inlet (Ty. 1)
L=5'-4", W=3'-10", H=3.67'
Top Elev.=166.50
R. Out=163.55

Install 105.4 LF. 15" RCP

Scale: 1"=20'

Cable TV Service

Install 115.2 LF. 15" RCP

125' Landscape Buffer

Sta. 15+69.8, Line No. 1
Construct R. C. Manhole
L=4'-6", W=4'-6", H=6'-8", HT=0'-9"
Top Elev.=169.00
Connect 10" R/L
R. In=164.00 (SSW)
R. In=162.66 (W)
R. Out=162.56 (SE)

Sta. 14+40.2, Line No. 1
Construct Area Inlet (Ty. 1)
L=5'-4", W=3'-10", H=4.91'
Top Elev.=168.00
R. In=162.87 (NW)
R. Out=161.80 (SSE)

Install 203.4 LF. 18" RCP

Install 129.6 LF. 15" RCP

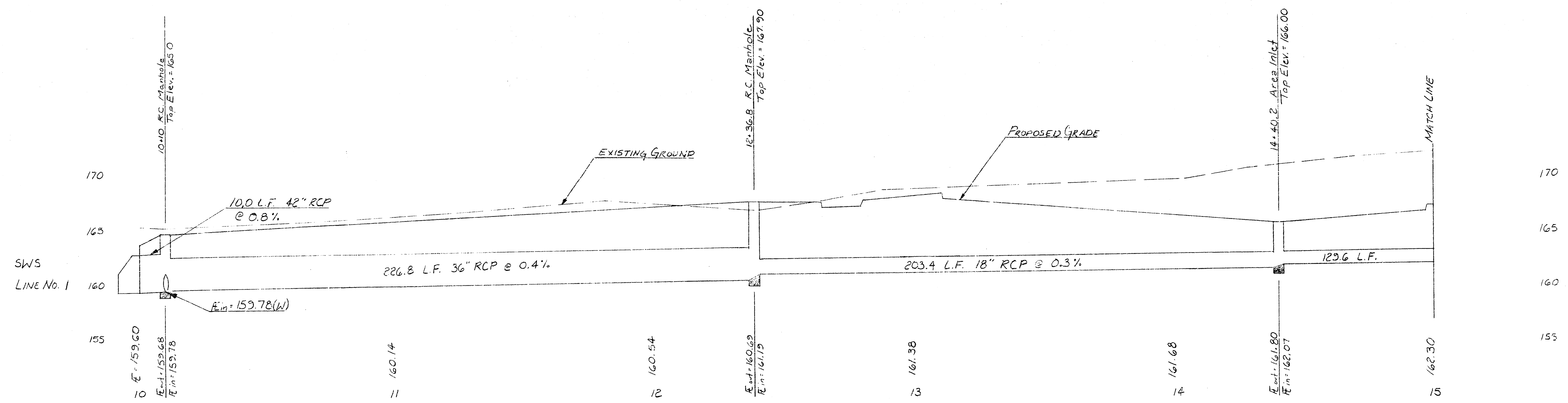
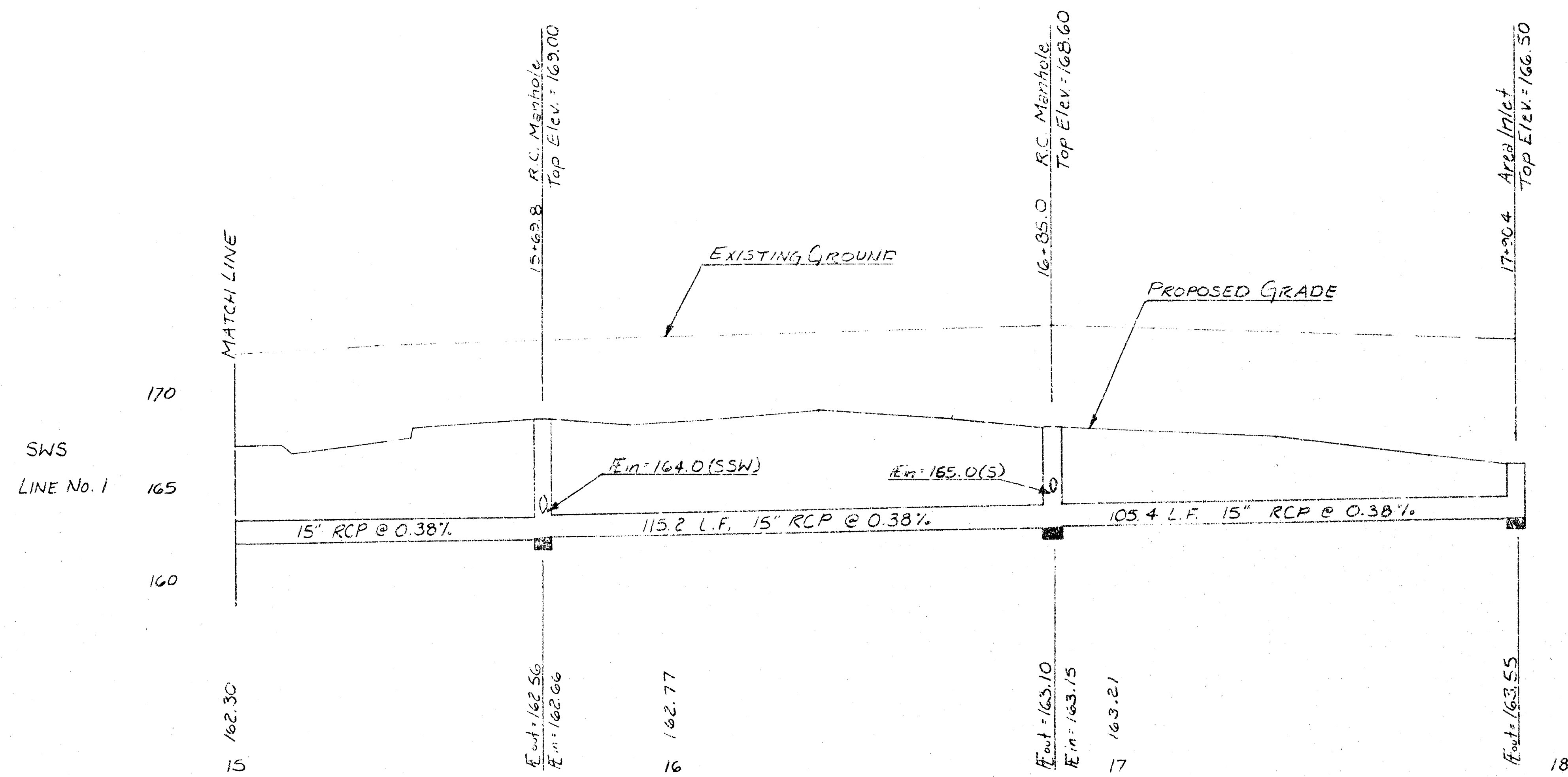
DRAINAGE PLAN

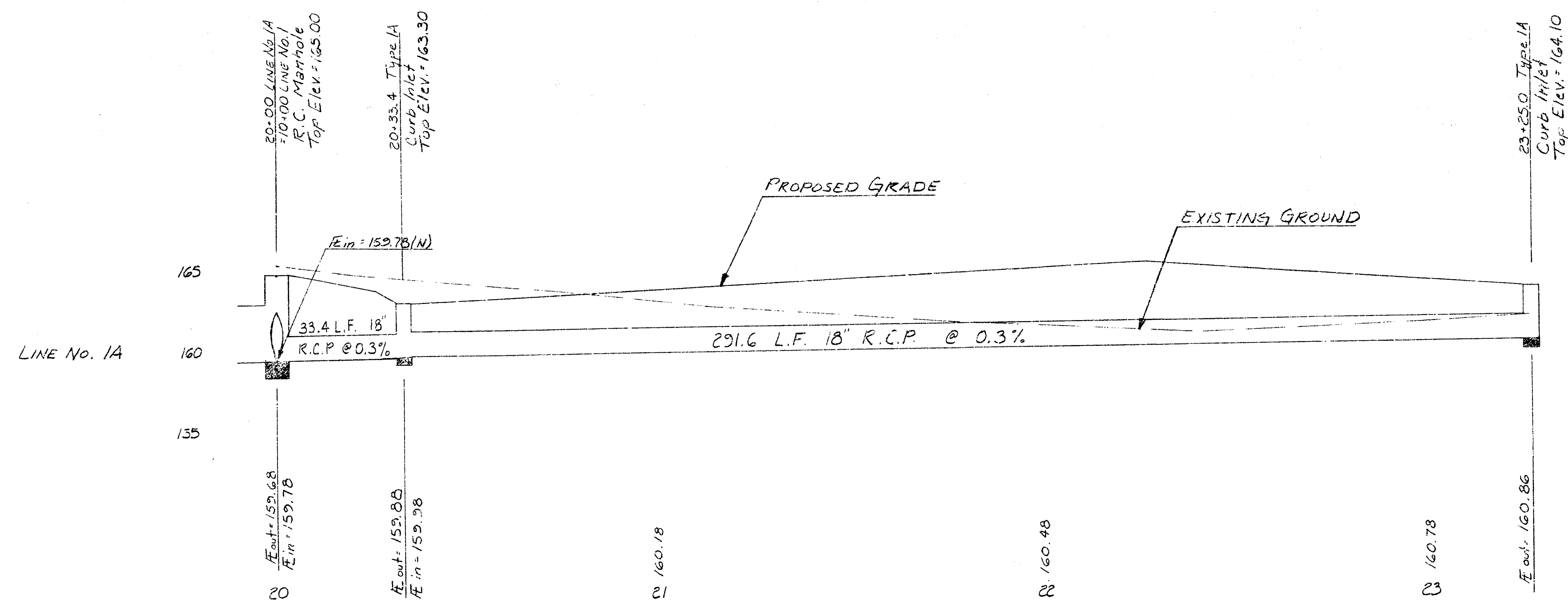
SEDGWICK COUNTY

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

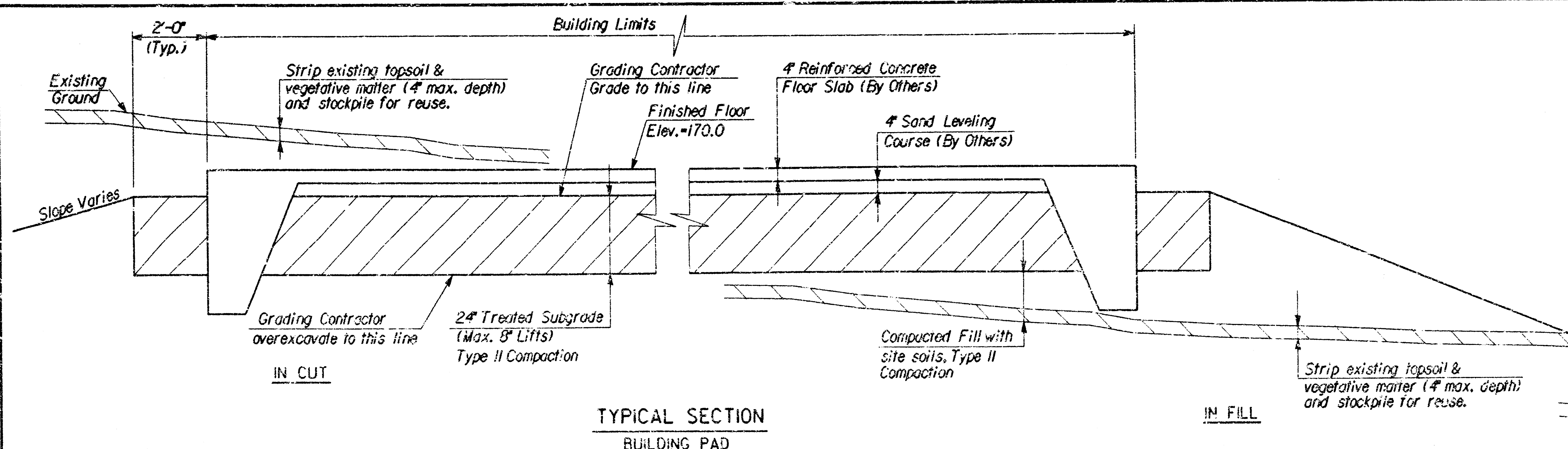
Designed by: **MWB, DPC** Checked by: _____
Drawn by: **JGP** Date: **AUG. 1994** Job No.: **24320**

usr/ustm/dgn/
drawn by:
plotted by:

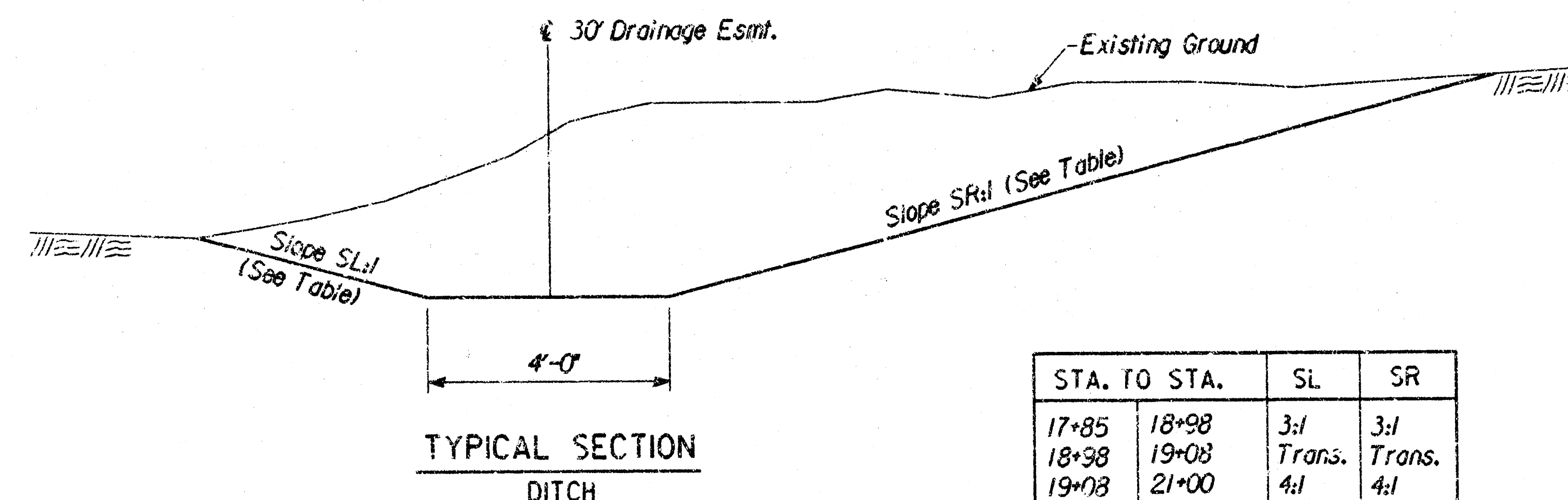
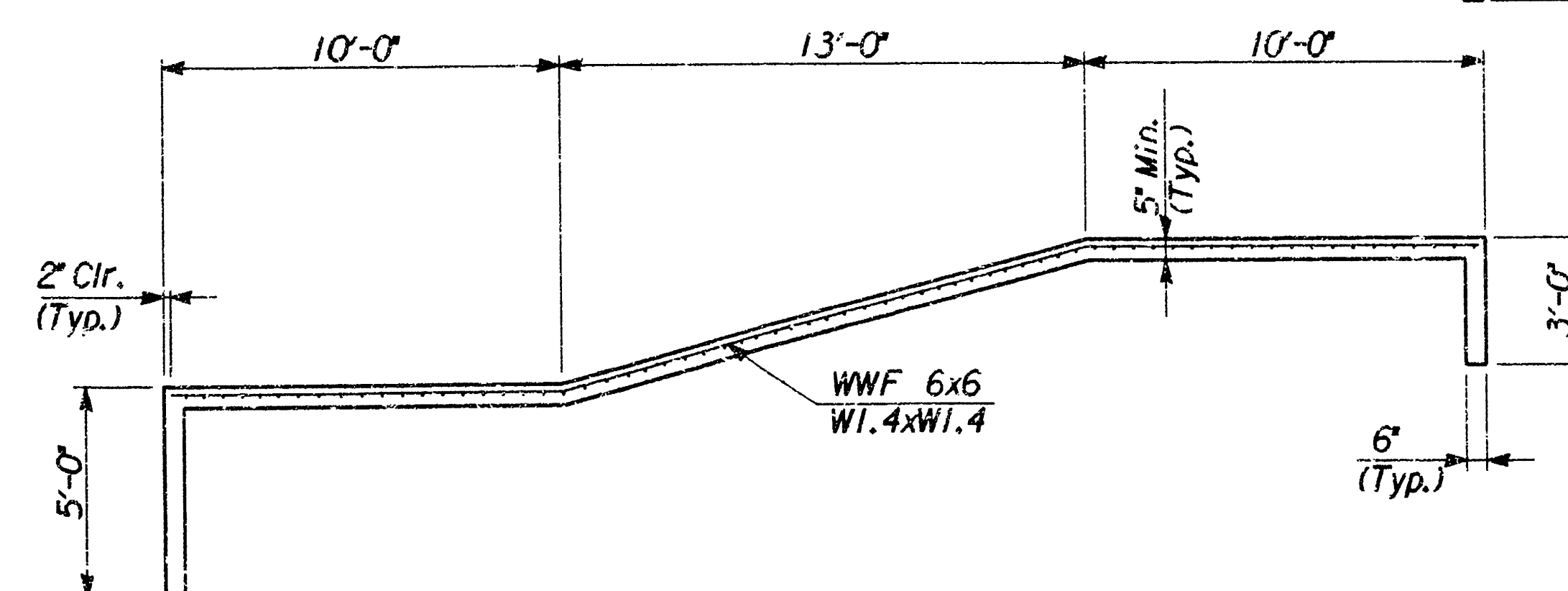
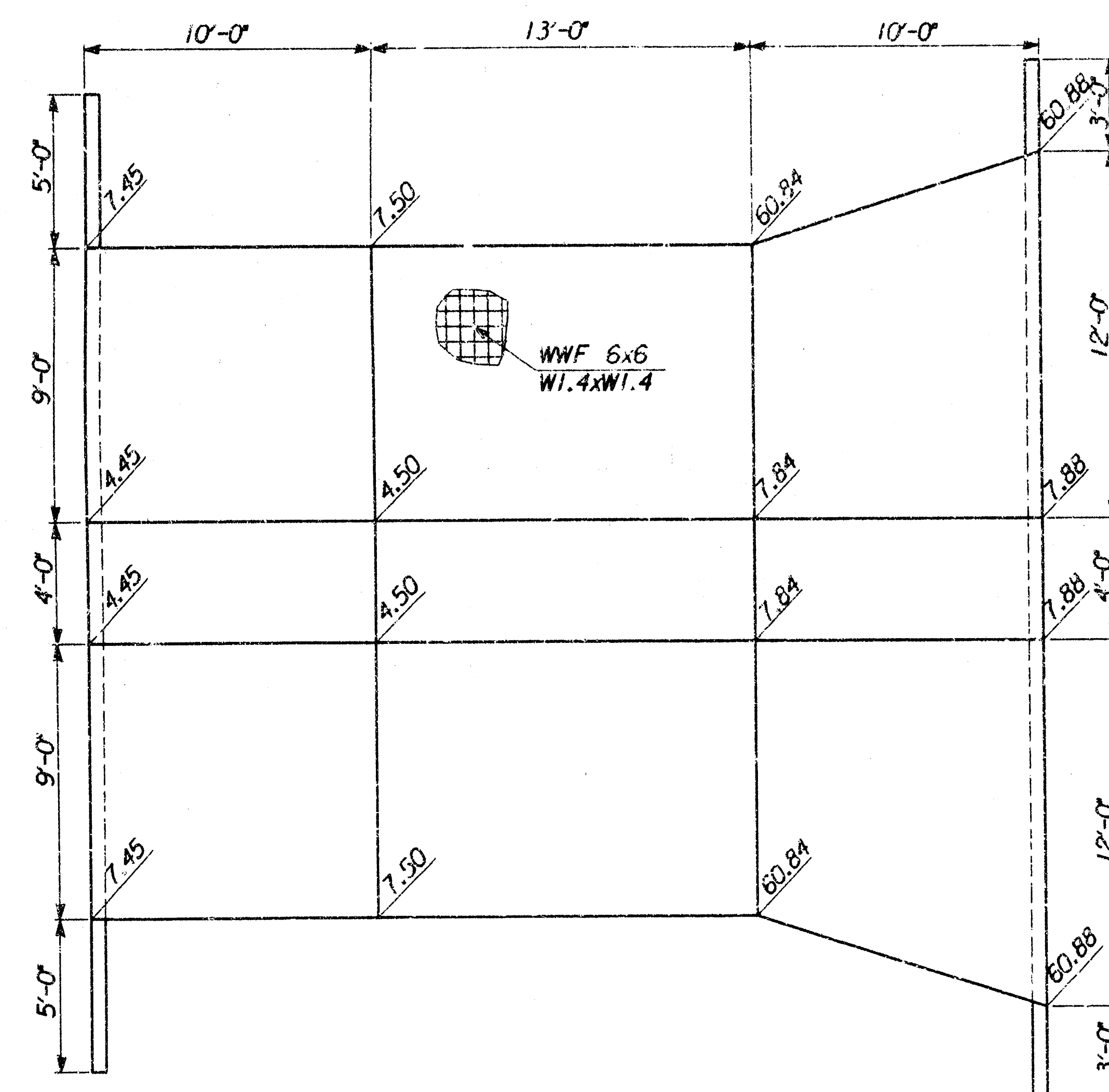




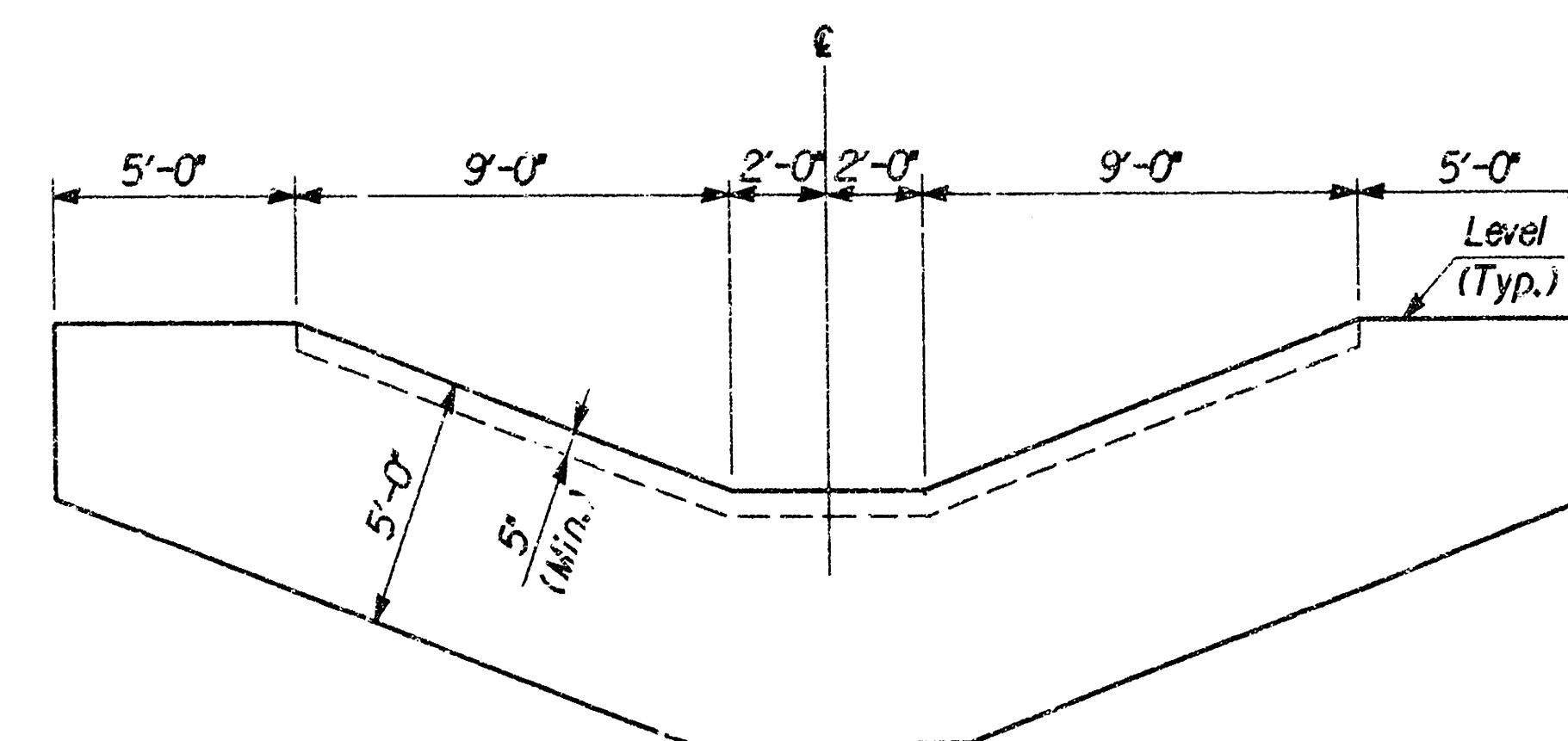
SHEET NO.	TOTAL SHEETS
6	10



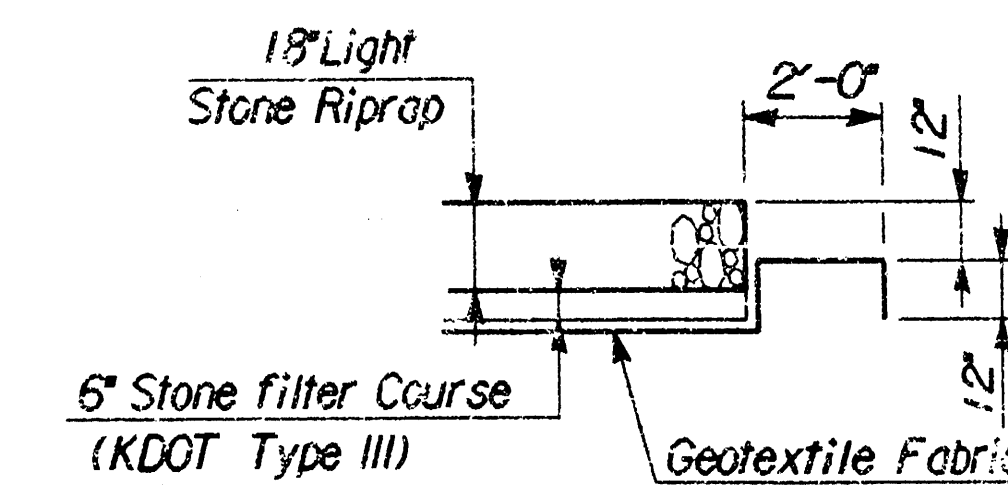
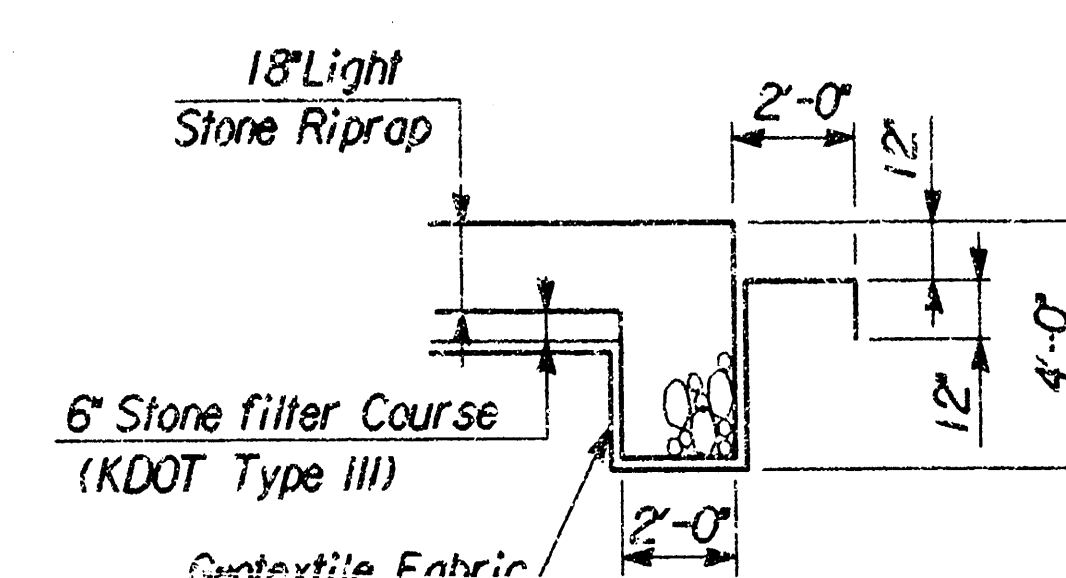
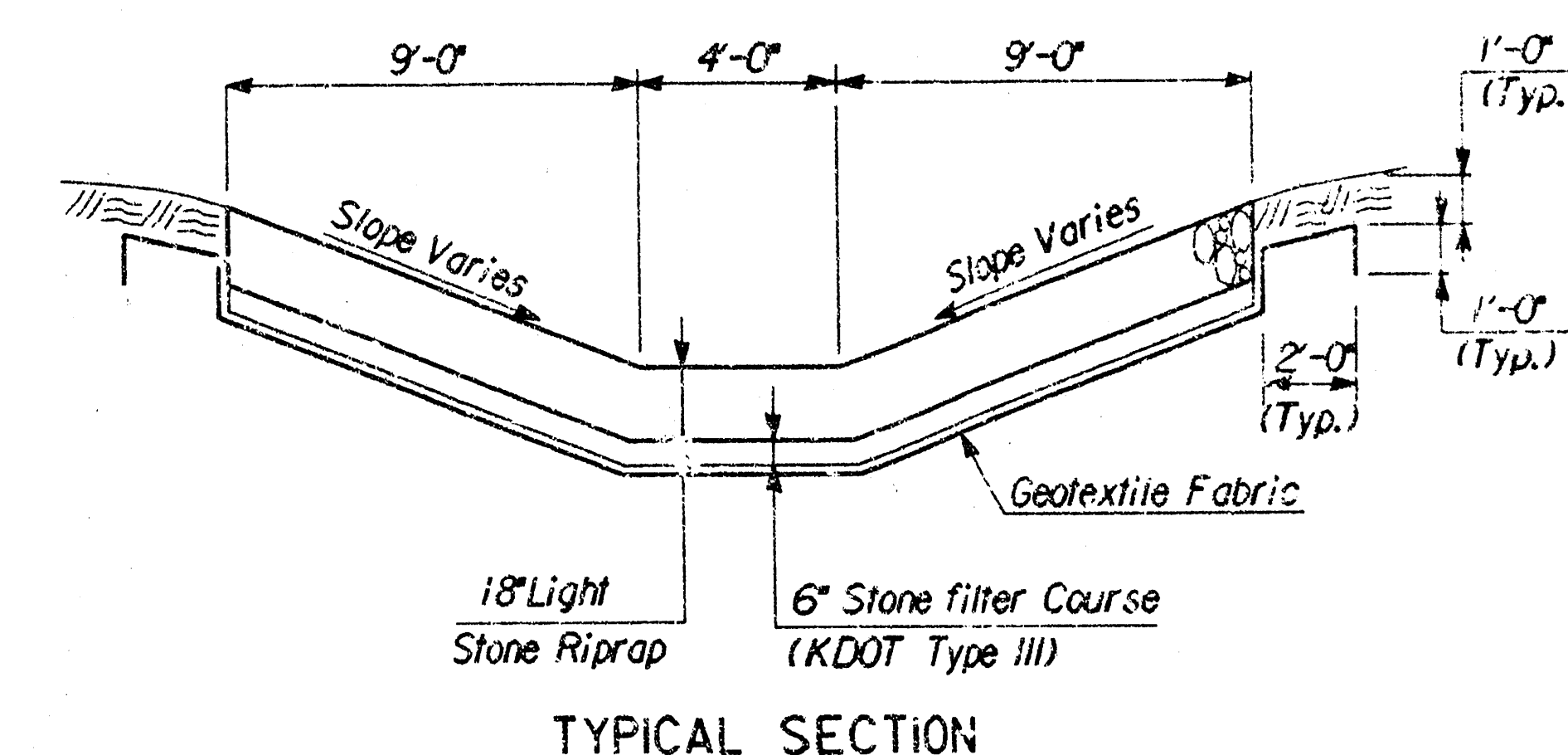
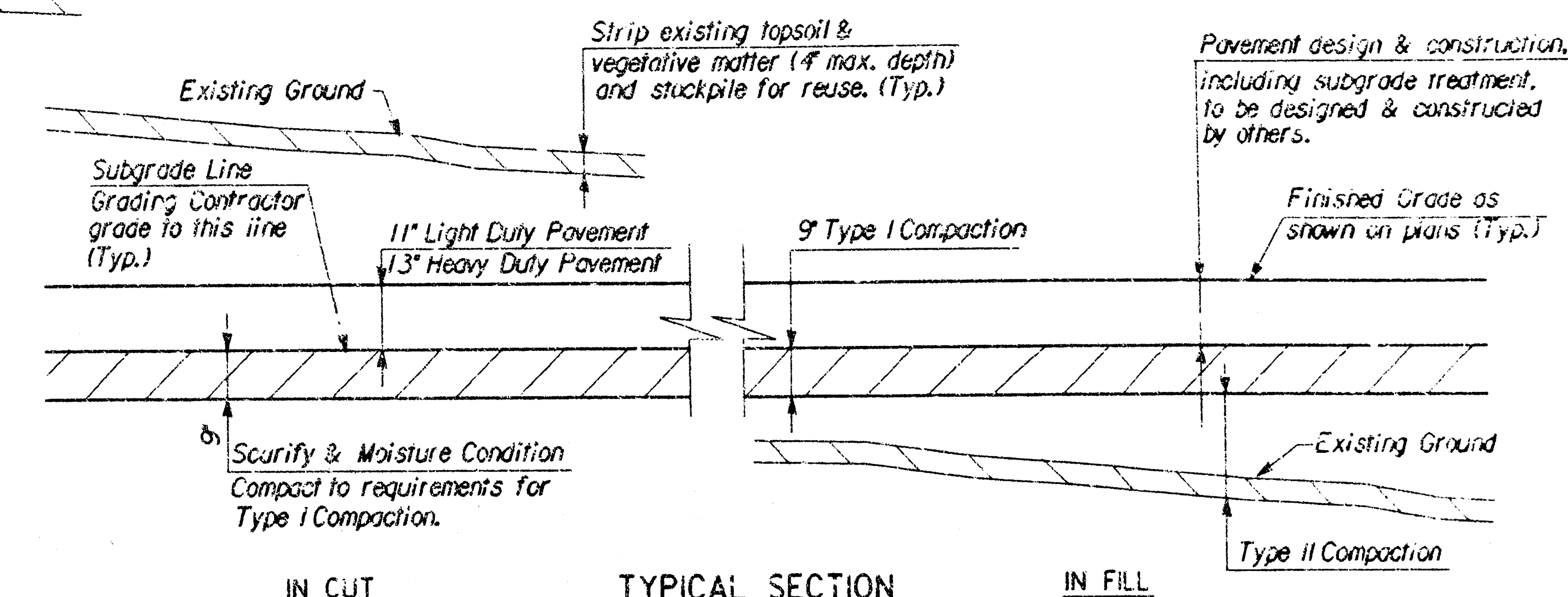
NOTE: Contractor to retain an approved laboratory to perform soils tests to determine application rate of Hydrated Lime or Class C Fly Ash at his own expense.



STA. TO STA.	SL	SR
17+85	18+98	3:1
18+98	19+08	Trans.
19+08	21+00	4:1
21+00	22+00	4:1
22+00	23+94.33	3:1



CONCRETE DITCH LINING

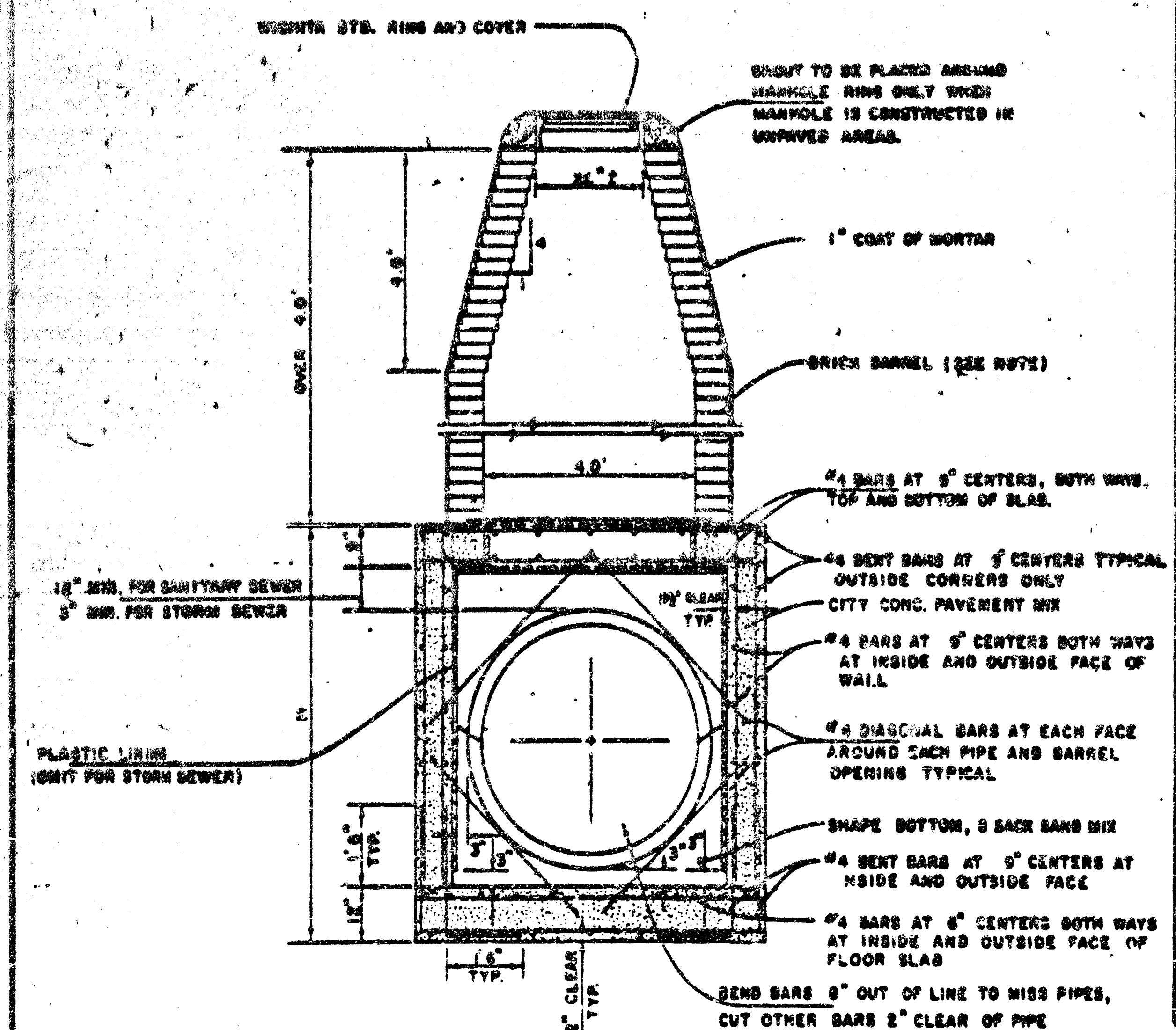
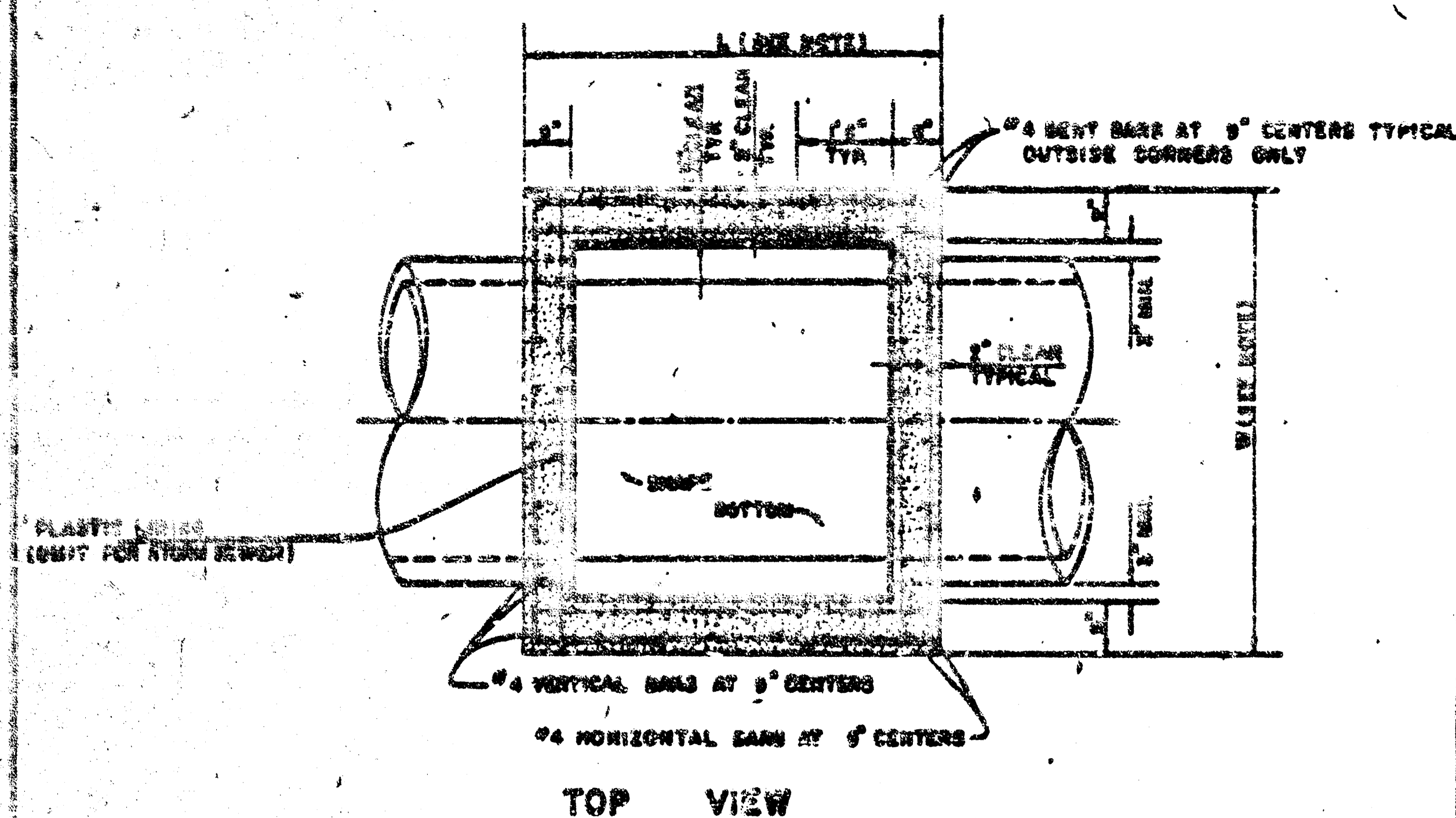


- LIGHT STONE RIPRAP**
- ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
 - RIPRAP SHALL NOT BE GROUTED ON THIS PROJECT.
 - GEOTEXTILE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION", KDOT, 1990.

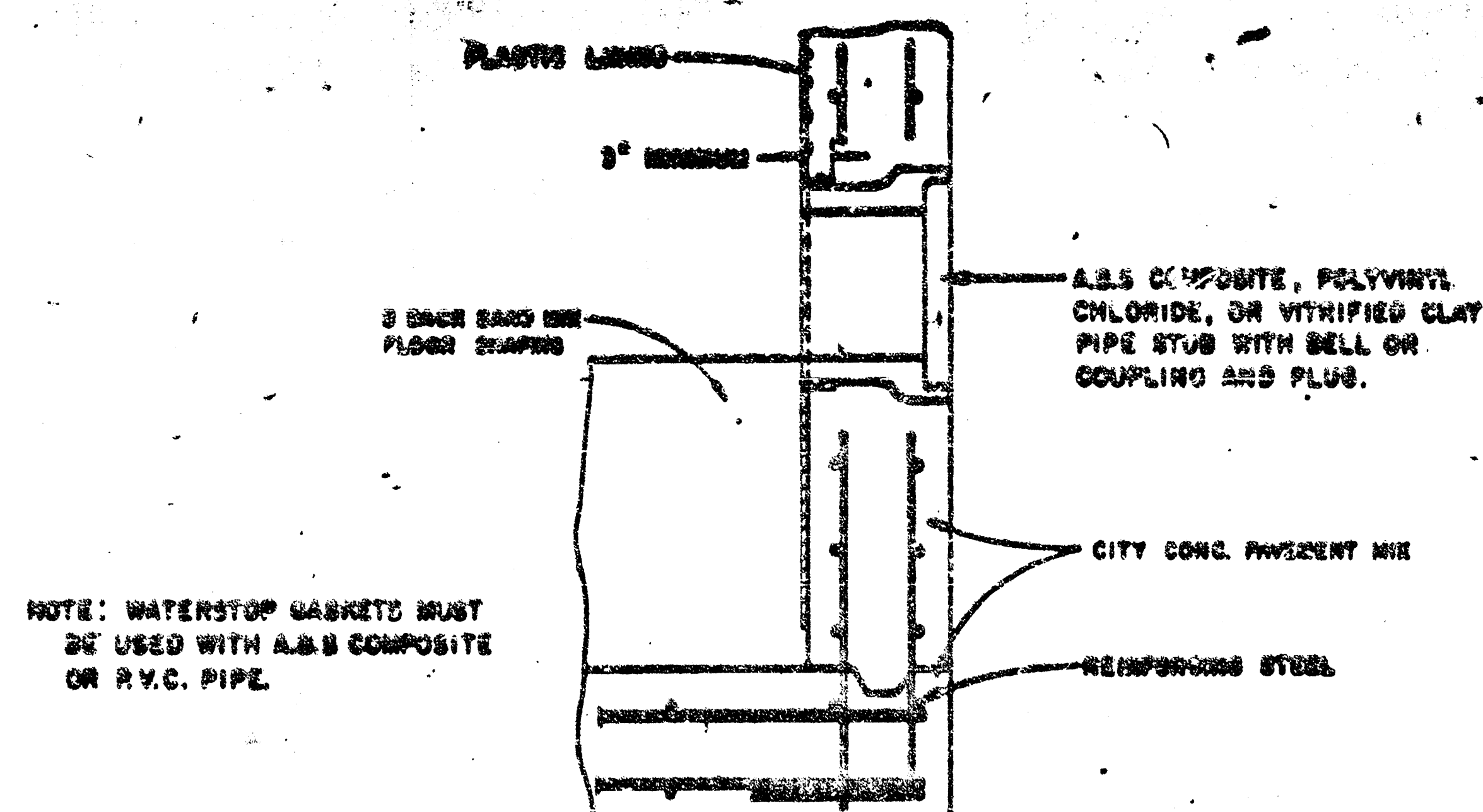
Revisions		By	Date
TYPICAL SECTIONS & DRAINAGE DETAILS PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS Designed by: MWB, DRC Checked by: JGP Date: AUG. 1994 Job No. 94320			

REFERENCES NOTED
REFERENCES CHECKED

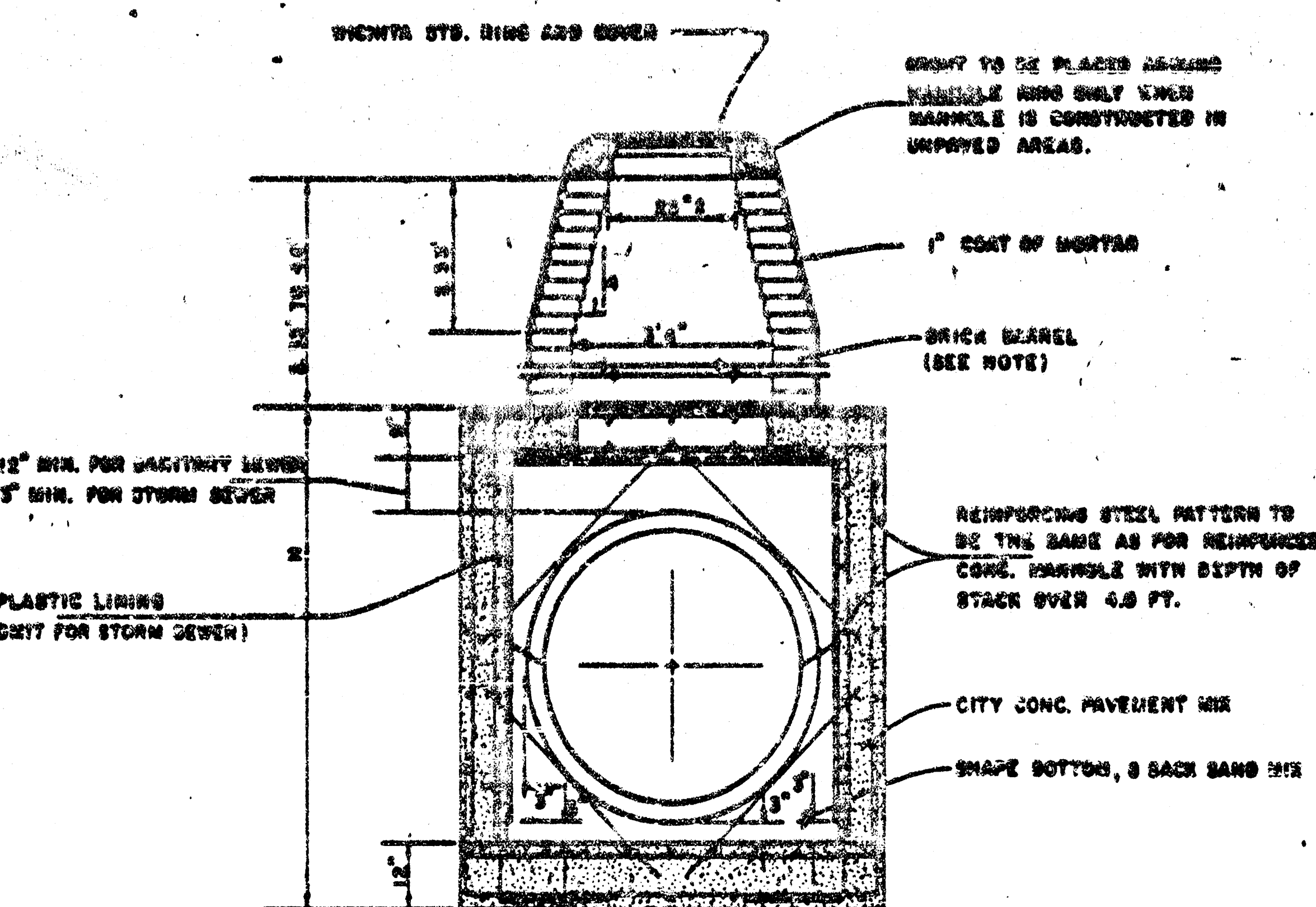
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Drawn By:
Plotted By:



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'

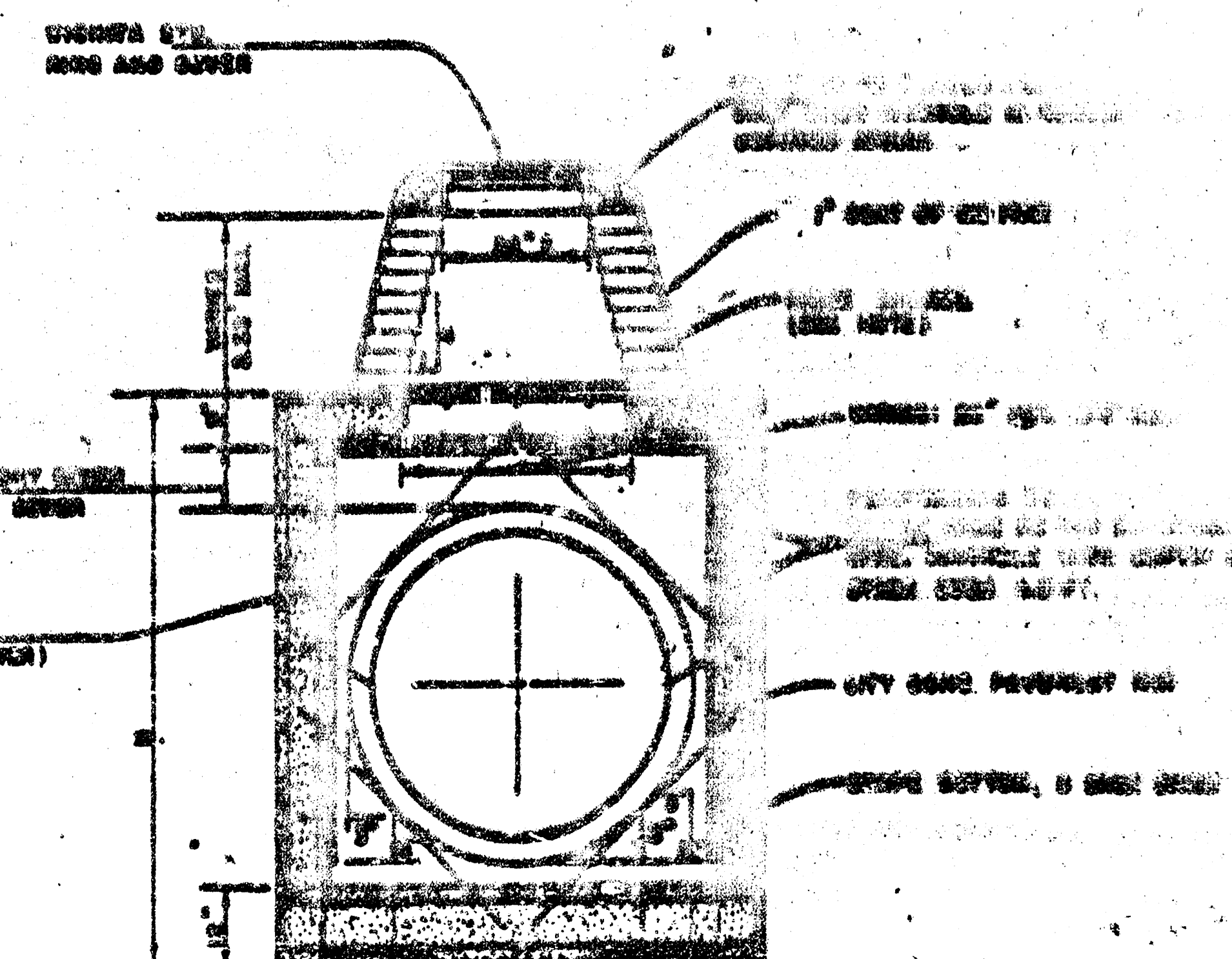
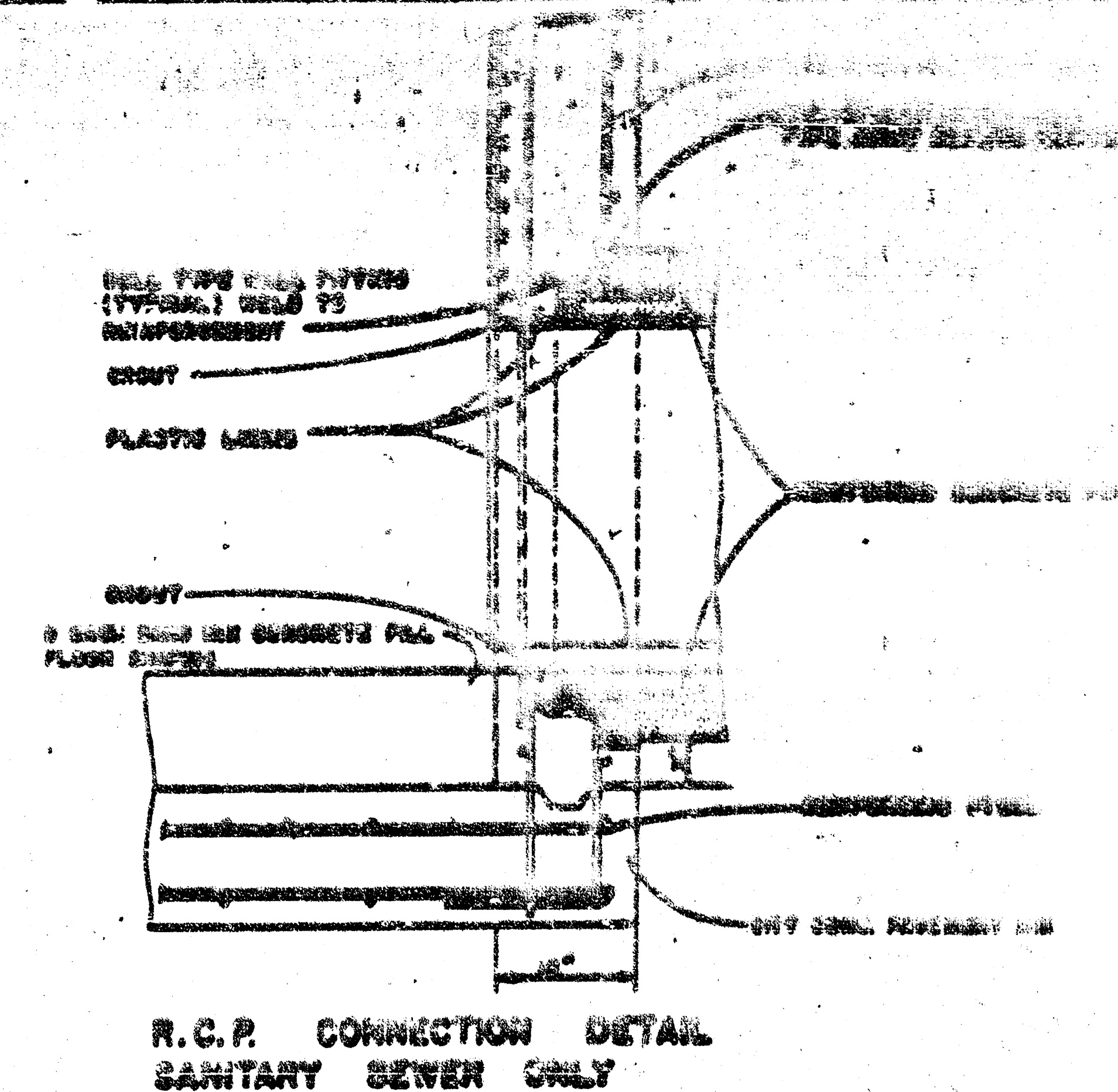


PIPE STUB DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THAN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12" BRICK BARRELS MORE THAN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATERTIGHT.



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

REVISED 1-7-39 C.O.M. Proj. No. 448 TO COR. 4-10-39 AND 4-10-40
STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA
FEBRUARY 1934 Sheet No. 7 of 10

MANHOLE FRAME AND COVER DETAIL

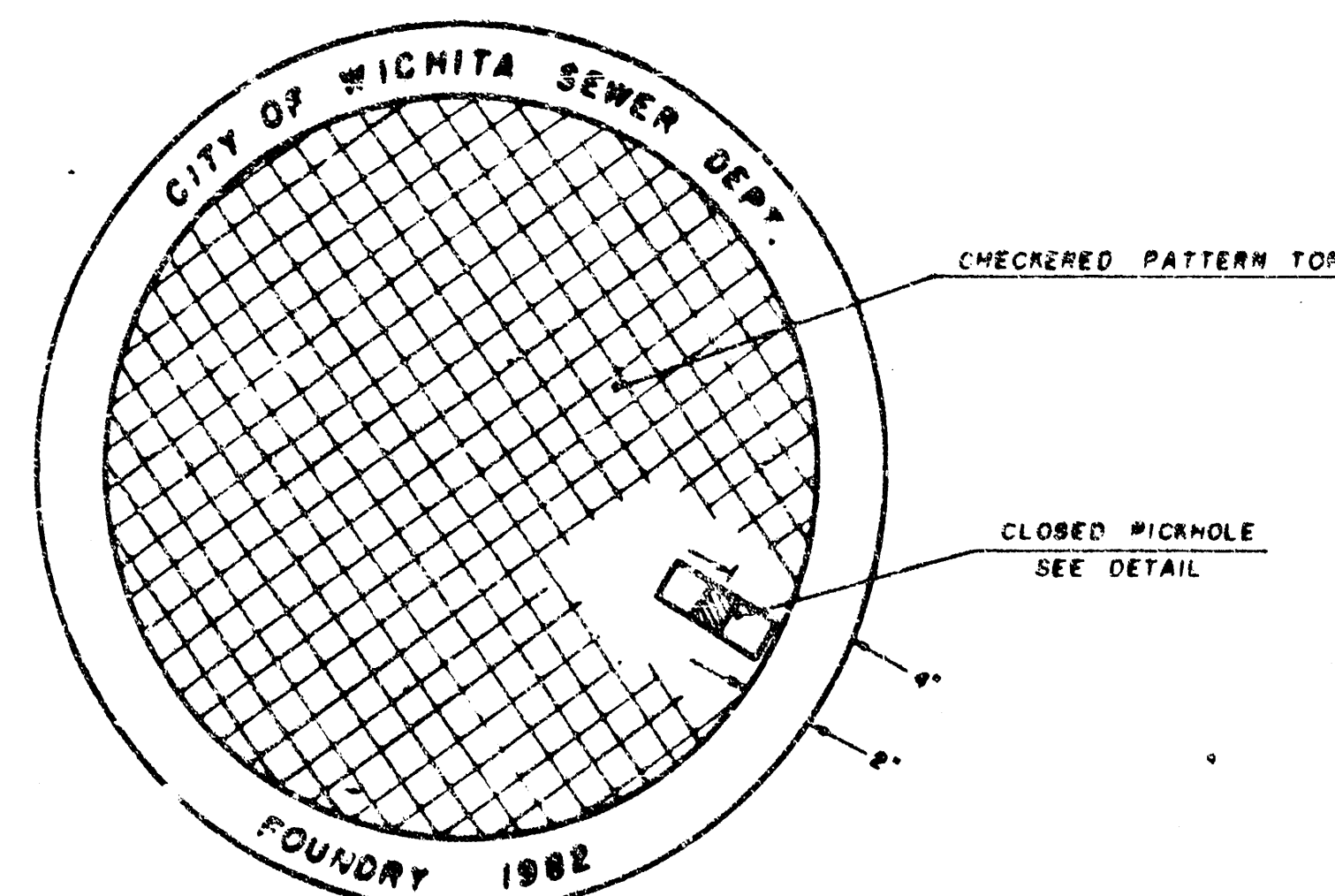
ADOPTED AS STANDARD DESIGN

BY

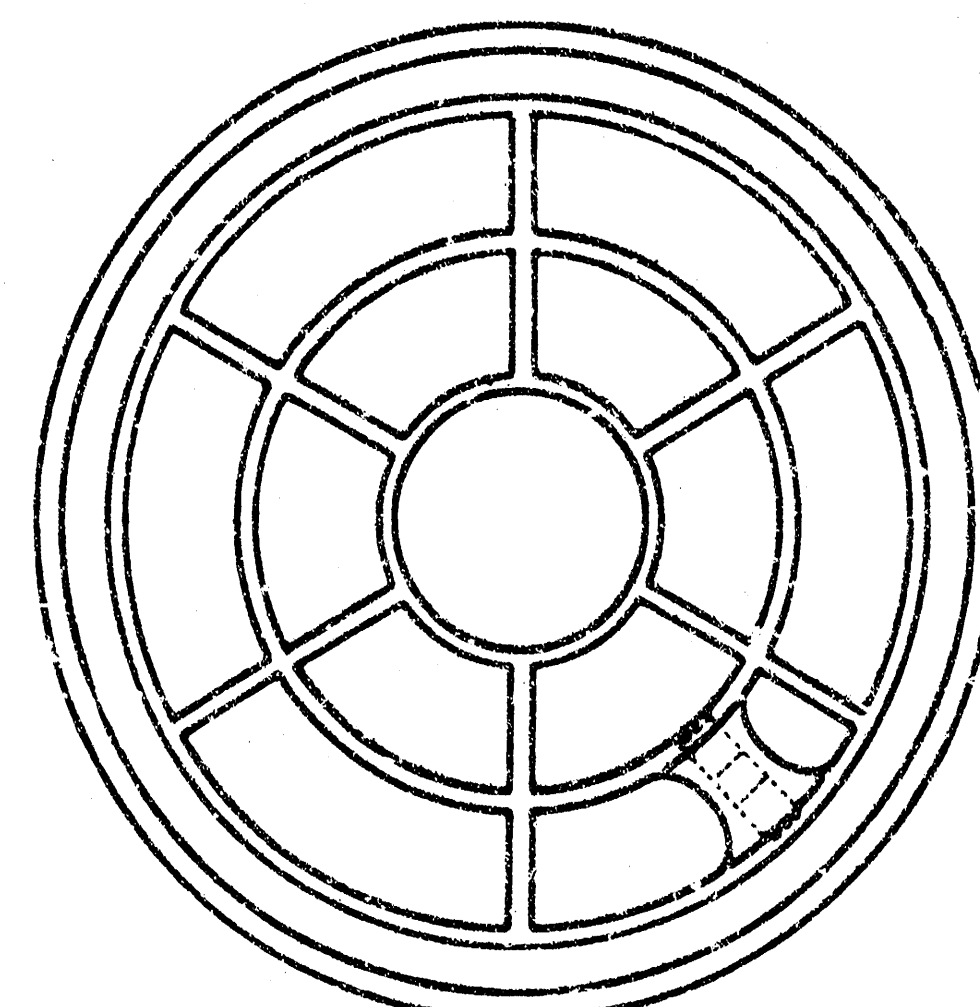
City of Wichita, Kansas

MANHOLE COVER

Weight: 180 Lbs.

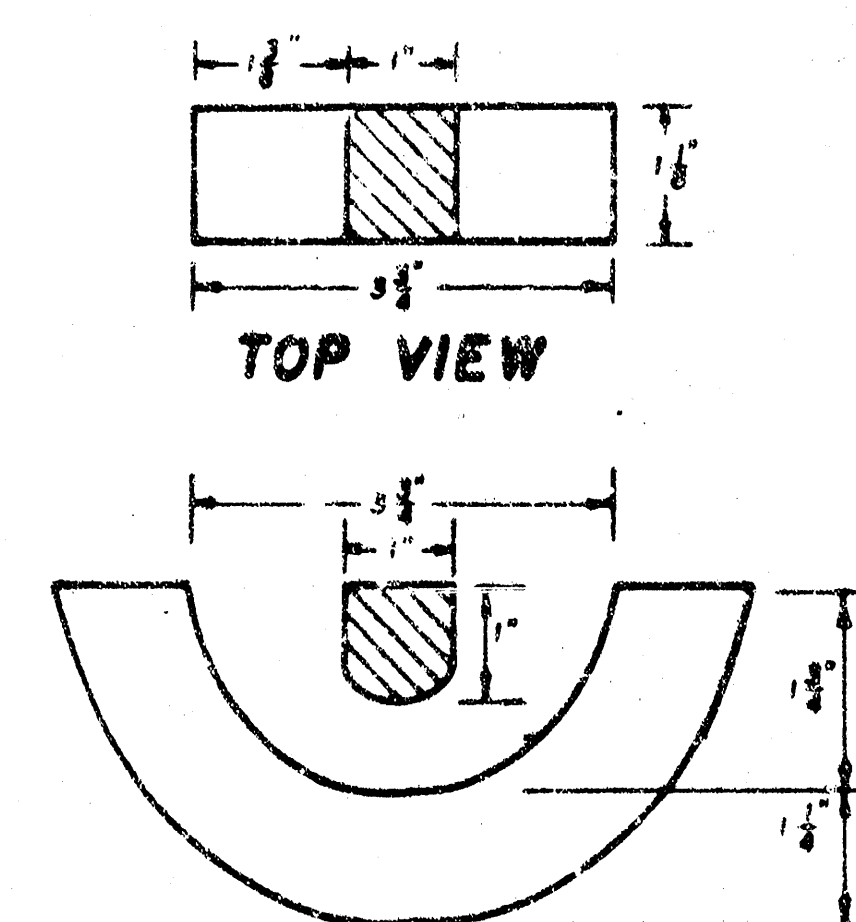


TOP VIEW

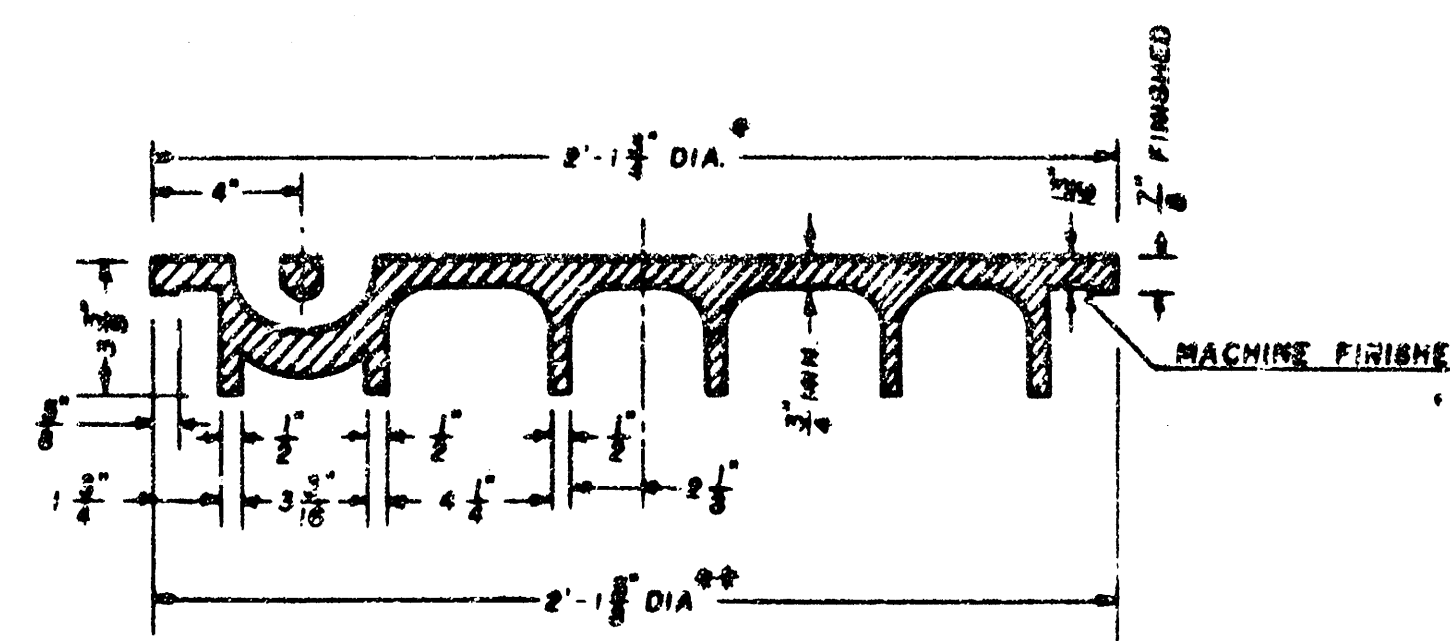


BOTTOM VIEW

PICKHOLE DETAIL



SECTION VIEW

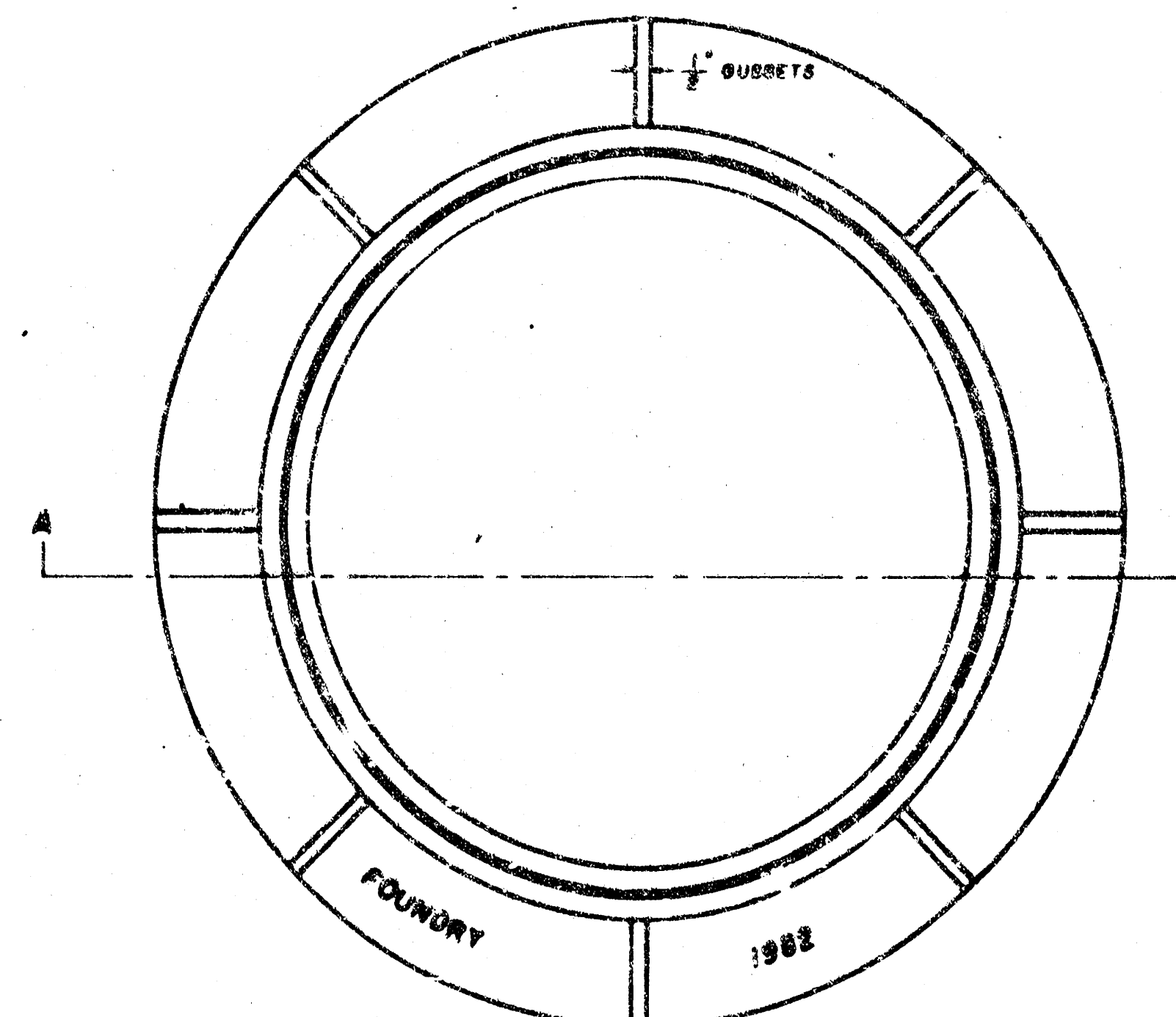


SECTION VIEW

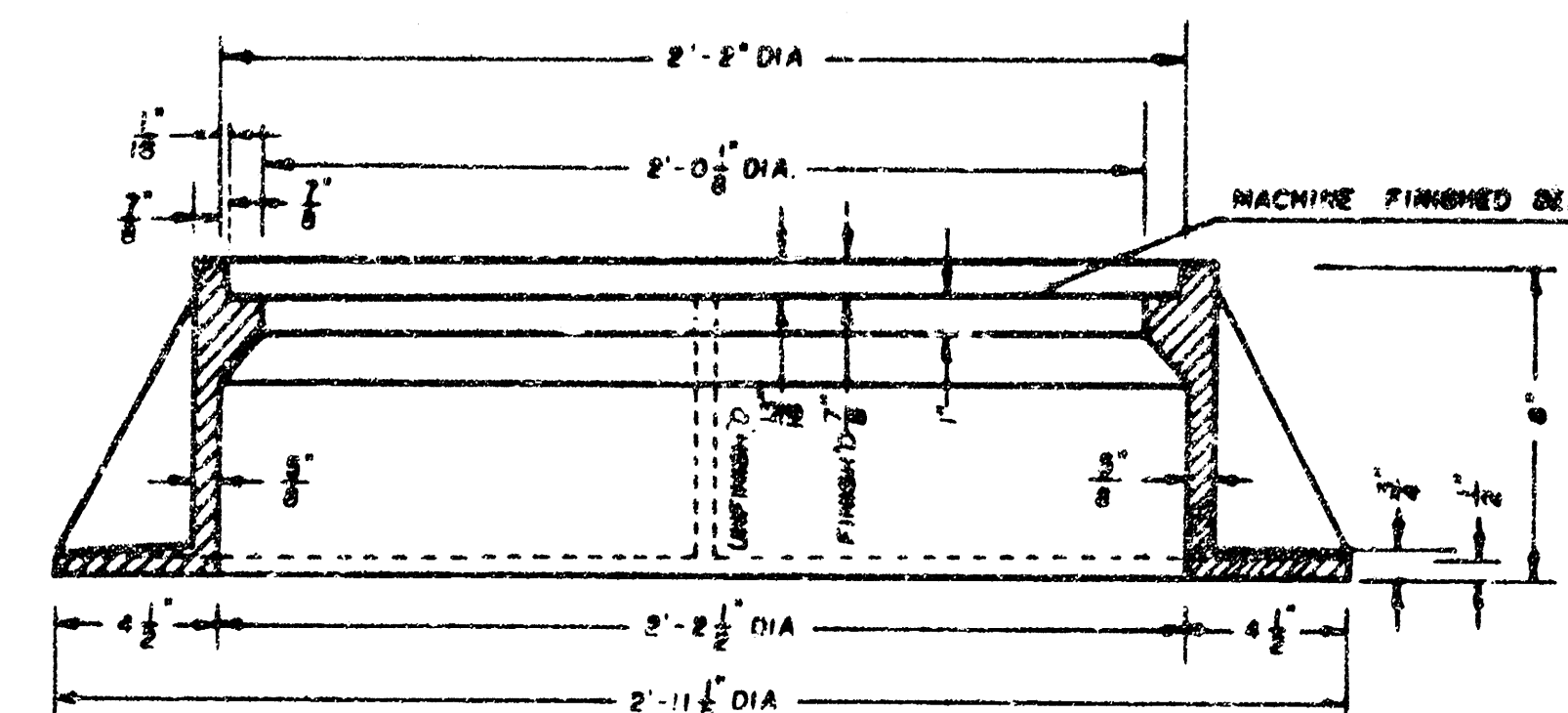
* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME

Weight: 240 Lbs.



TOP VIEW

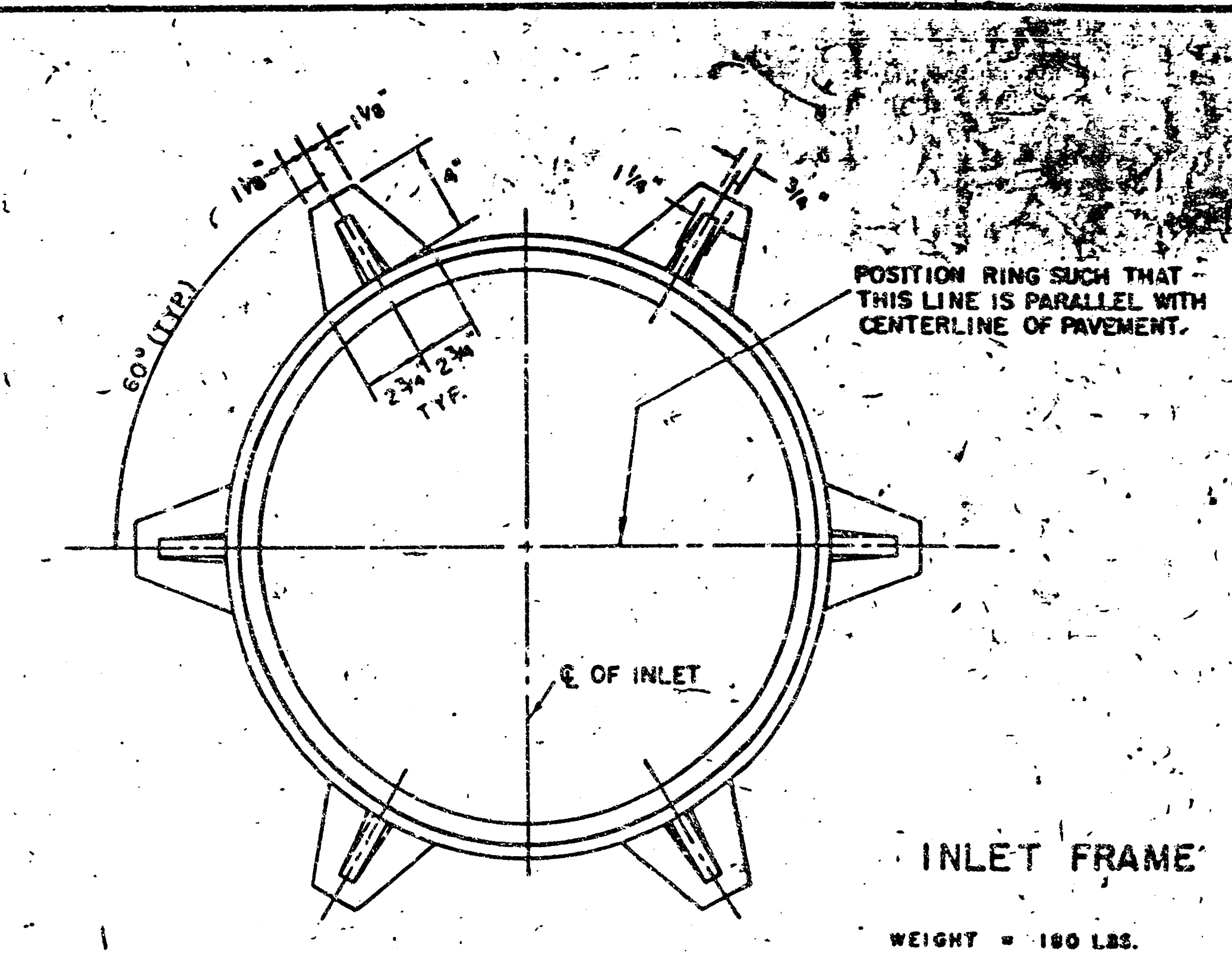
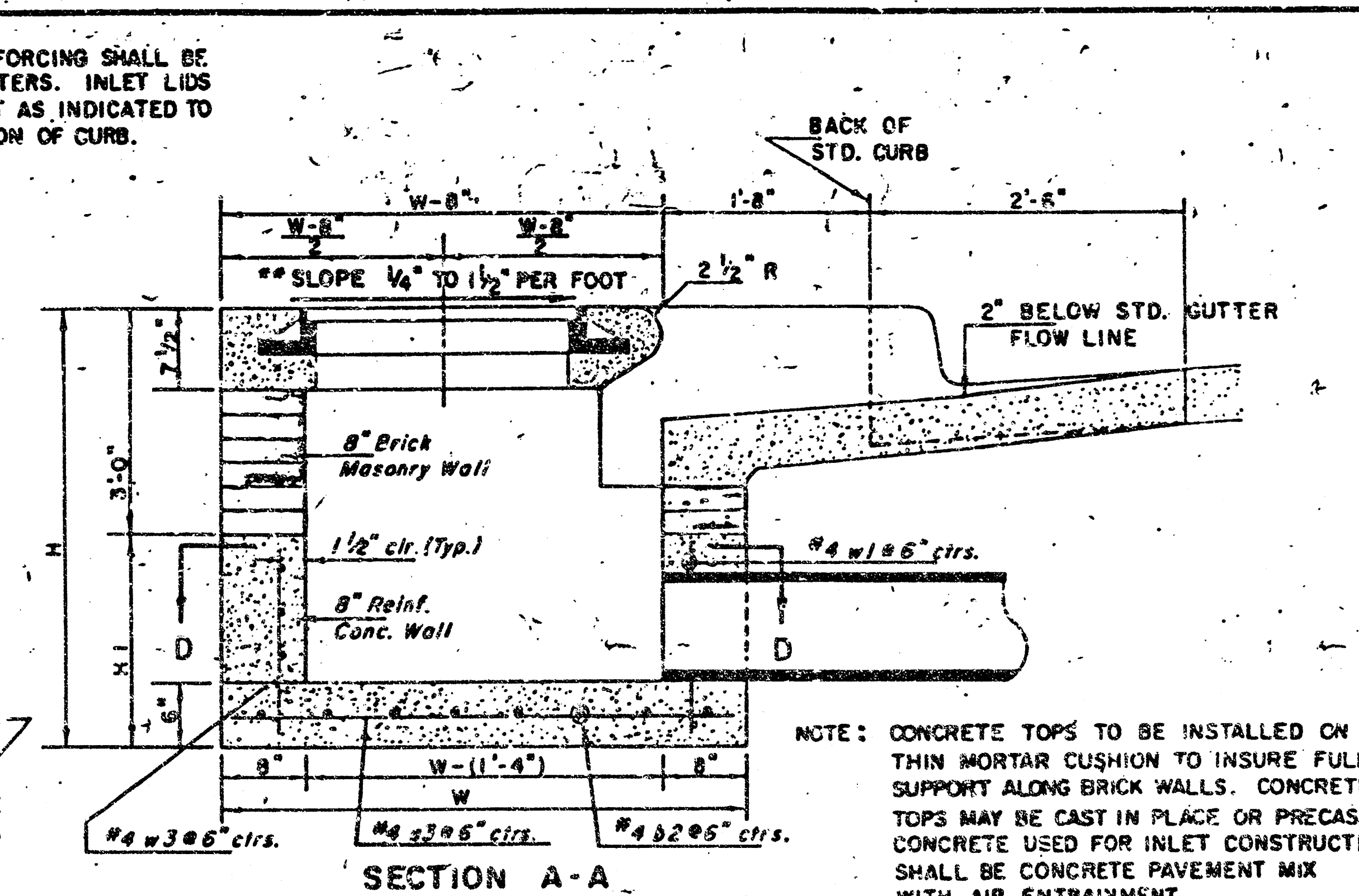
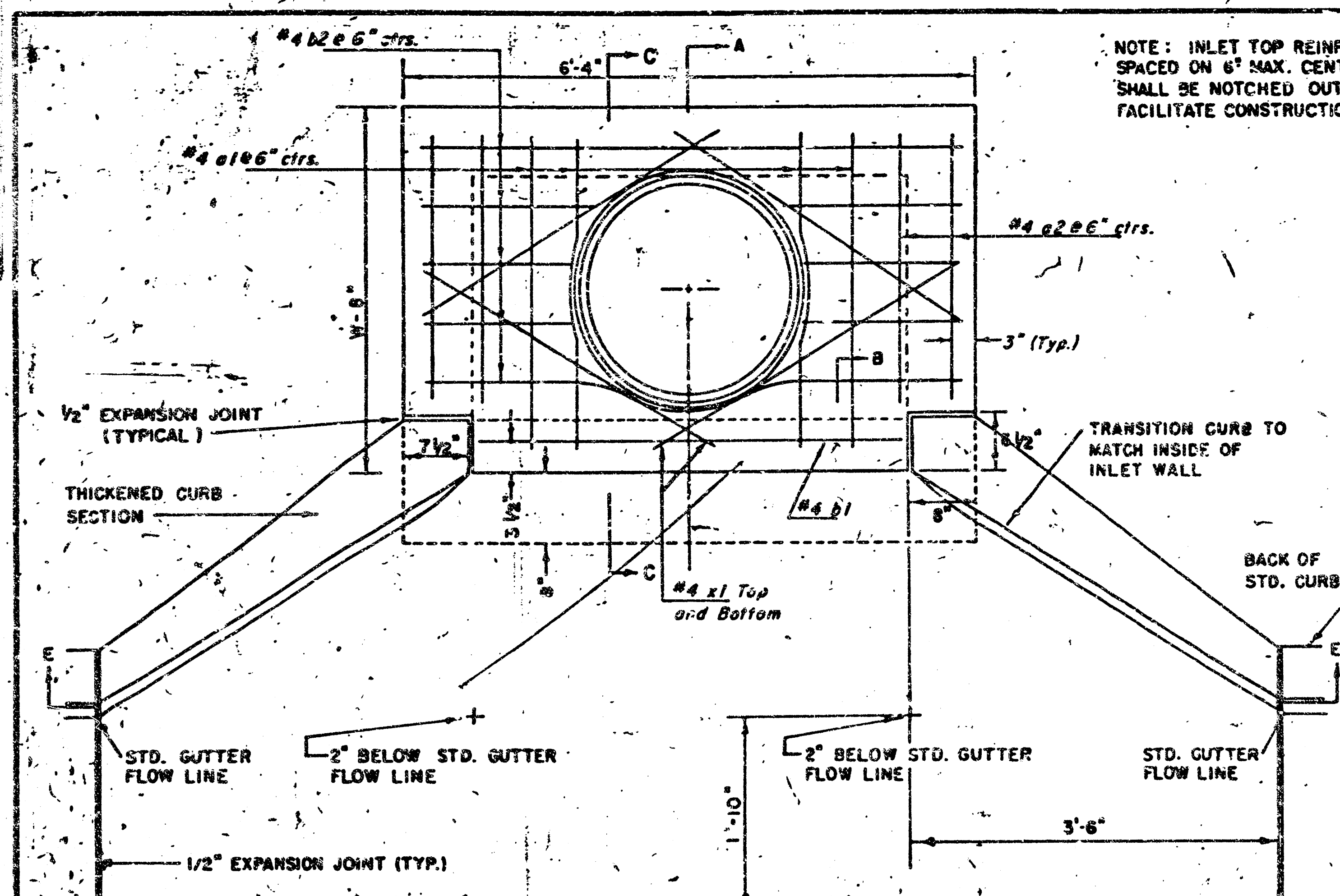


SECTION A-A

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAIL DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TUGH AND TENSILE COATING WHICH IS NOT BRITTLE OR TACKY.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME EXCESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

No.		Revision		By	Date
CITY OF WICHITA, KANSAS					
MANHOLE FRAME & COVER DETAIL					
PROJ. NO. 972-75-242 -000-000-000					
PROFESSIONAL ENGINEERING CONSULTANTS, P.C.					
WICHITA, KANSAS					
Designed by	Job No.		Sht.		8 of 10
Drawn by	Sht.				

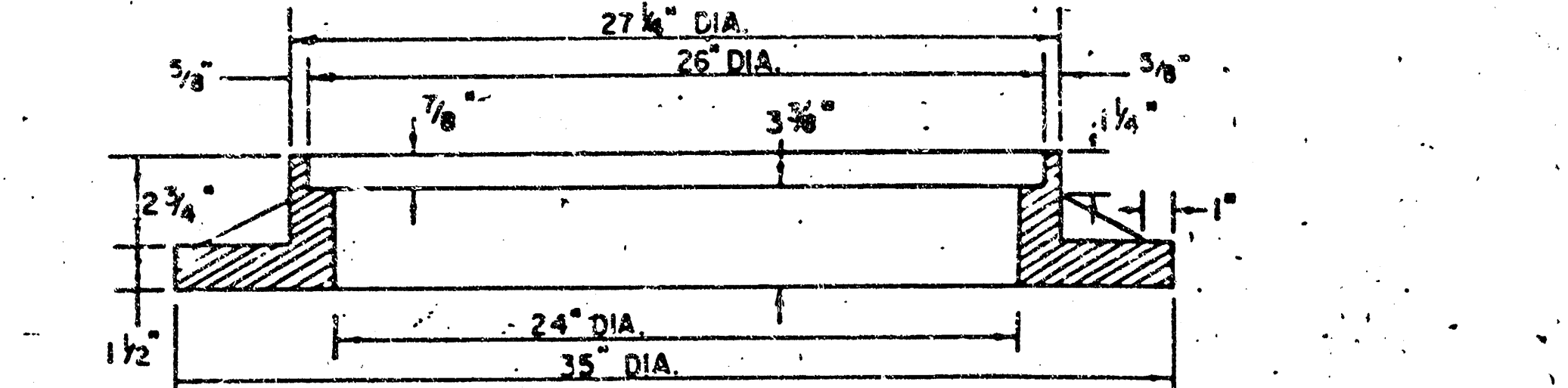
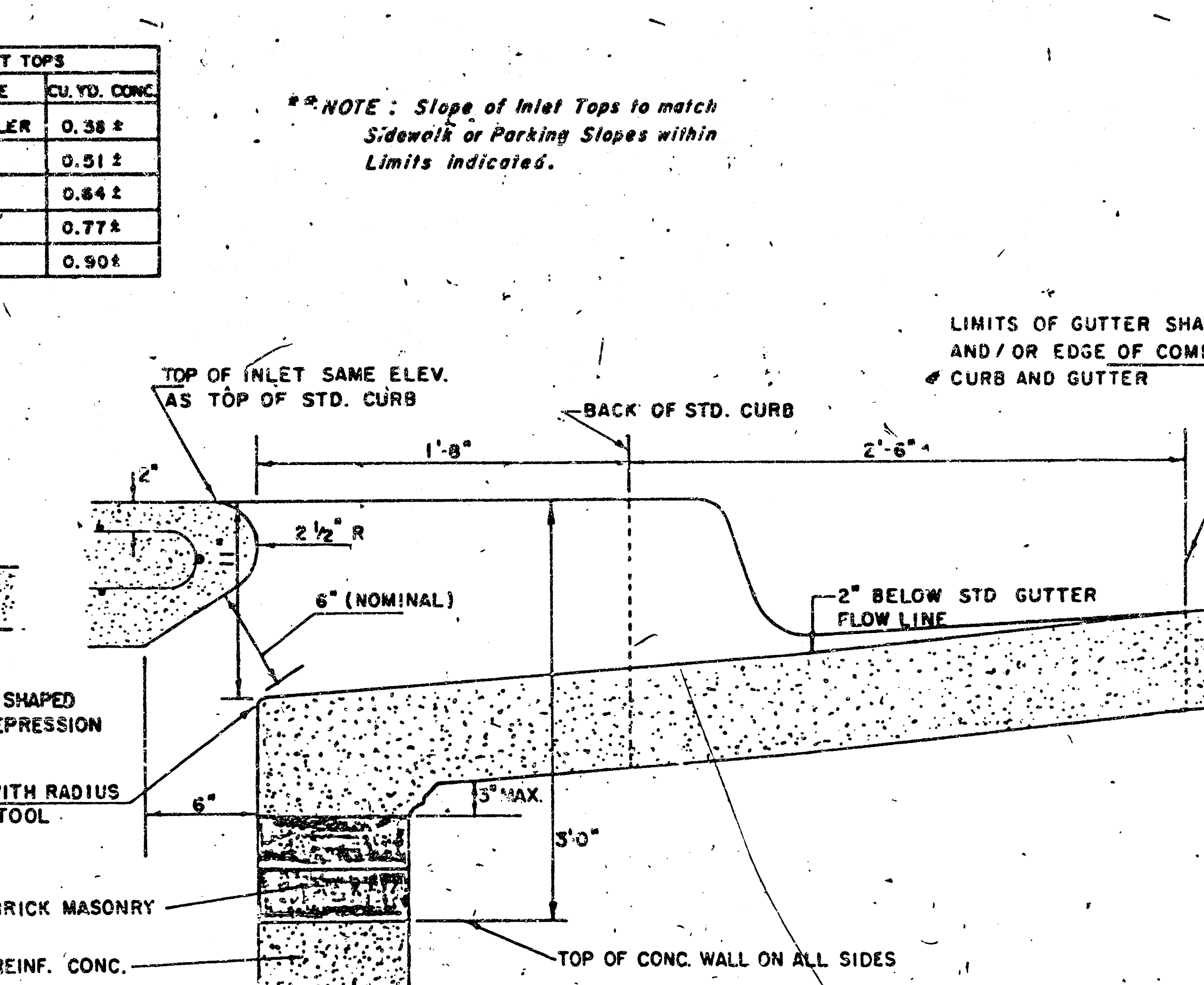
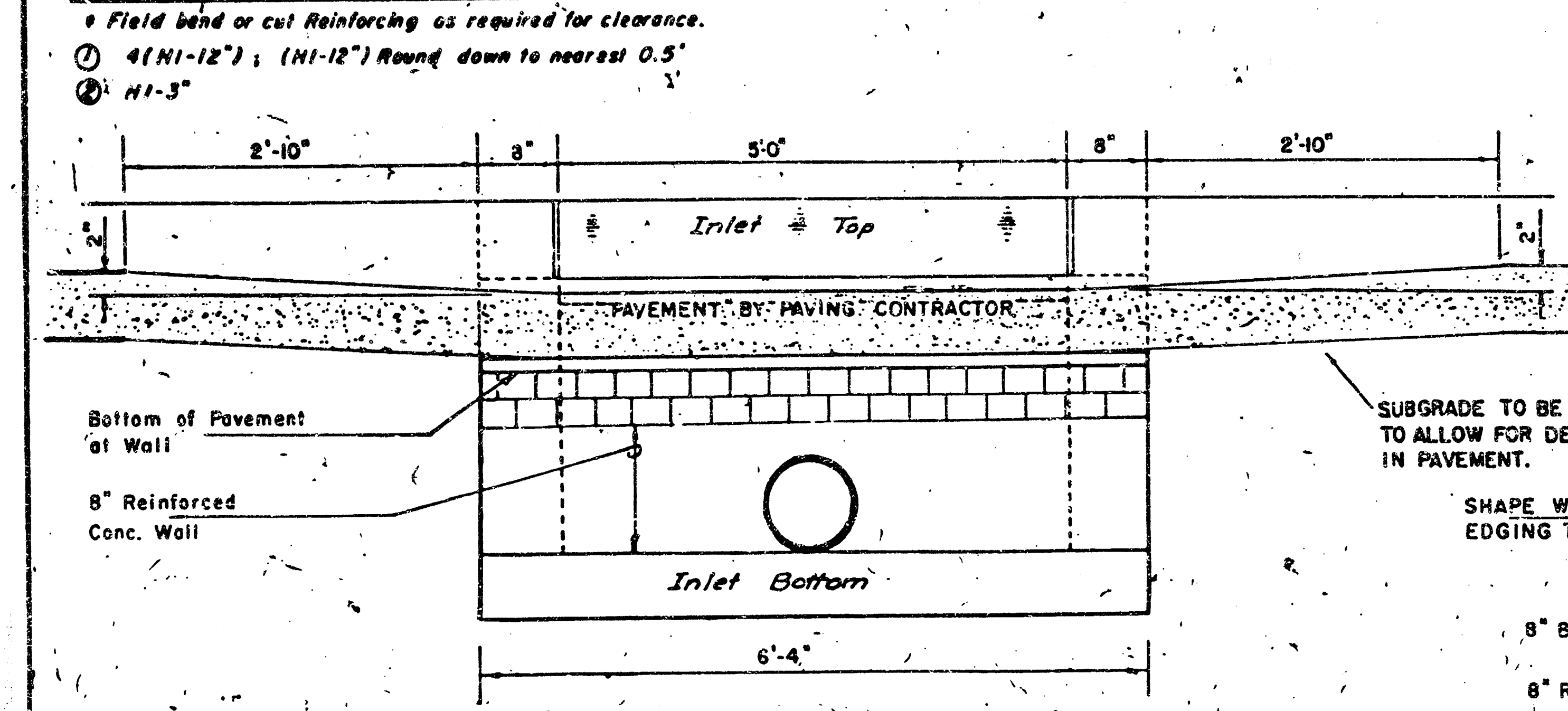
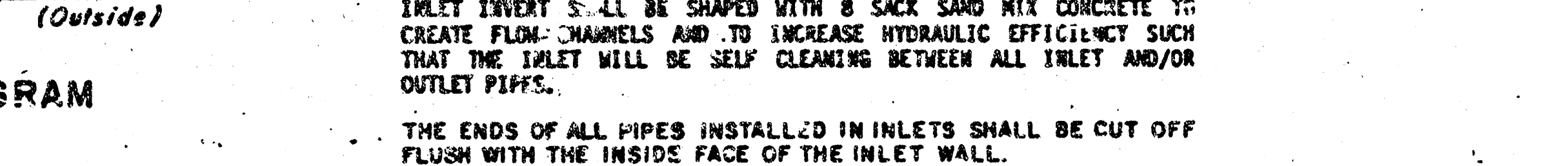


NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

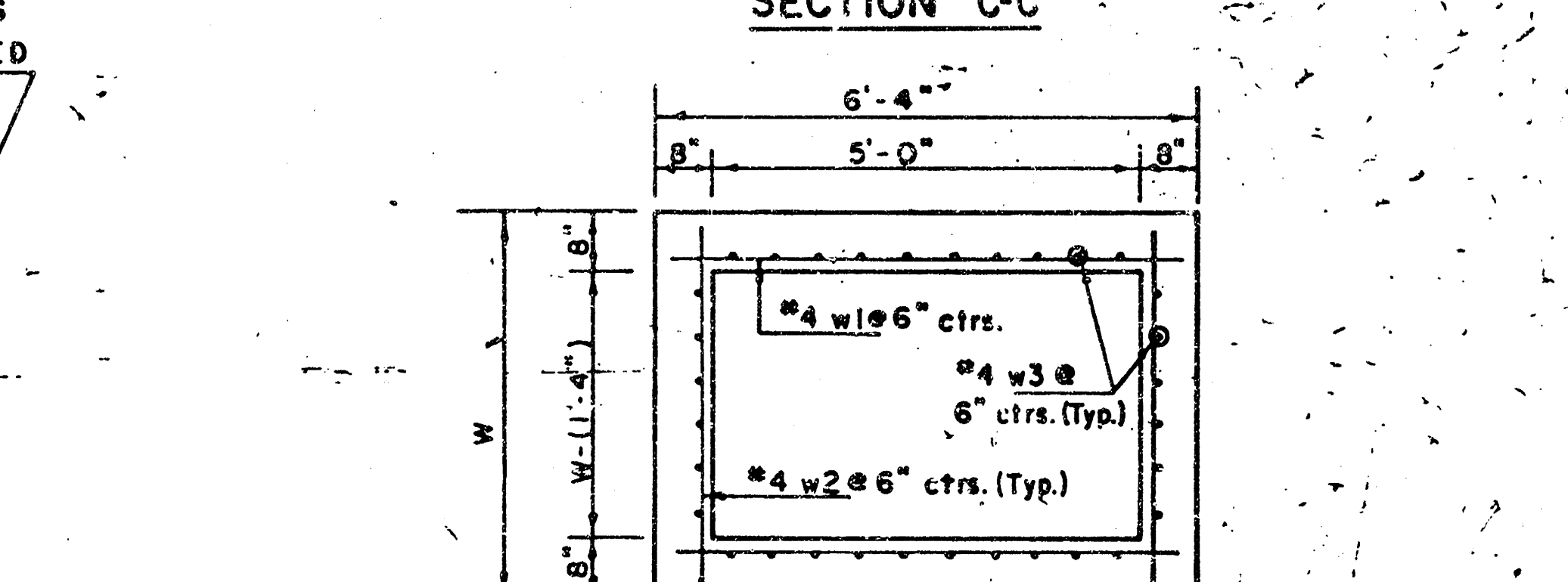
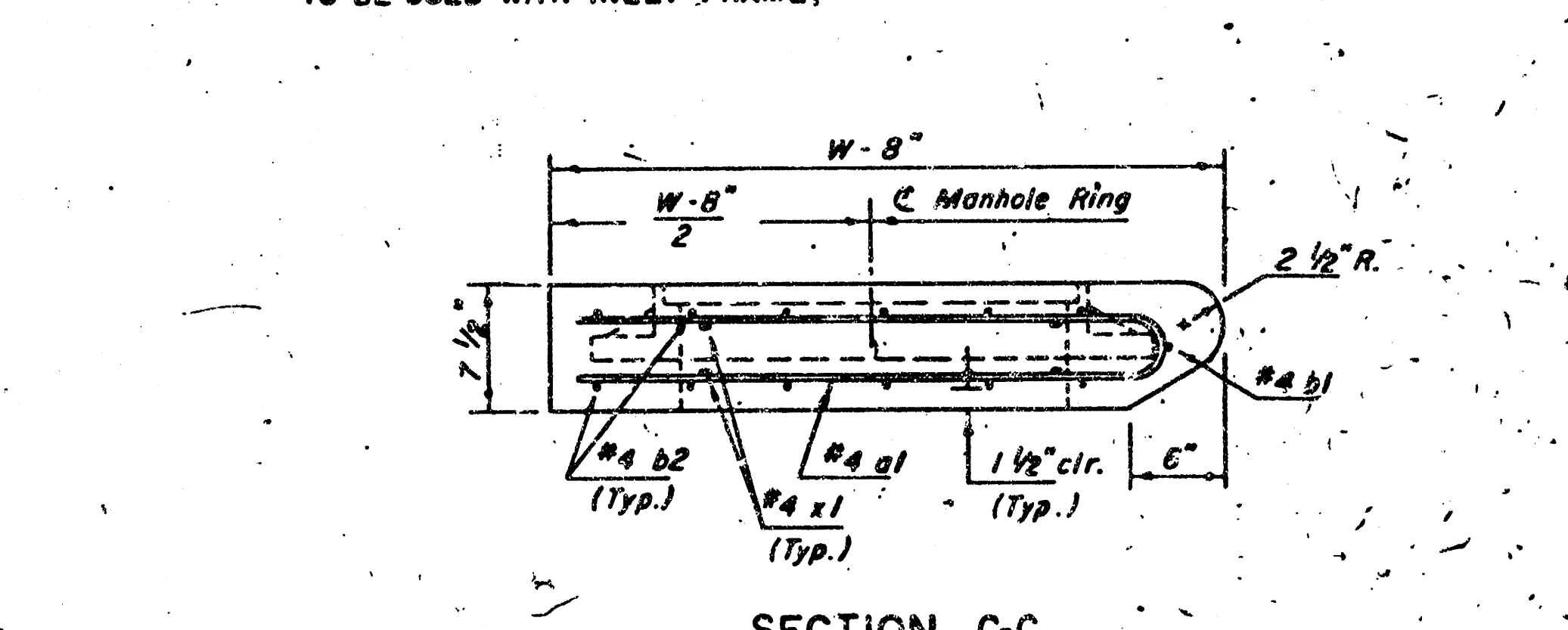
PLAN

Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
a1	#4	6	5'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
c1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
w3	#4	32	4'-1"	36	4'-1"	40	4'-1"	44	4'-1"	48	4'-1"



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



SECTION E-E

SECTION B-B

SECTION C-C

SECTION D-D

REVISION 11-30-1983
REVISED 12-3-1984
Revised 2-16-1989

DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"

JUNE 1984

PHI 2ND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas) SS We, Baughman Company, P.A., Surveyors in
Sedgwick County) and state do hereby certify that we have
surveyed and plotted "PHI 2ND ADDITION", Wichita, Sedgwick
County, Kansas and that the accompanying plot is a true and
correct exhibit of the property surveyed, described as and being a
replot of Lot 1, Phi Addition, Wichita, Sedgwick County, Kansas,
EXCEPT that part described as beginning on the west line of
said Lot 1, at a point 430.43 feet north of the S.W. Corner
of said Lot 1; thence N00°10'04"W, on said west line, a
distance of 300 feet to a corner in said west line; thence
N73°19'49"E, on the westerly line of said Lot 1, a distance of
125.63 feet to a corner in said westerly line; thence N63°21'40"E
on said westerly line a distance of 32.62 feet; thence S23°05'55"W,
a distance of 380.11 feet to the point of beginning, AND EXCEPT
that part described as beginning at the N.W. Corner of said Lot 1;
thence S10°09'01"E, on the west line of said Lot 1, a distance of
389.26 feet to a corner in said west line of said Lot 1; thence
N65°21'40"E, a distance of 109.88 feet; thence N00°09'01"W, a distance
of 343.48 feet, more or less, to the north line of said Lot
1; thence S89°58'59"W, on said north line, a distance of
100 feet to the point of beginning.
Existing floodway reserve being vacated by virtue of
K.S.A. 12-512(b).

Baughman Company, P.A.

Surveyor
Gregory F. Severns

Know all men by these presents that we,
the undersigned owners, have caused the land described in
the surveyors certificate to be plotted into Lots, and a
Street to be known as "PHI 2ND ADDITION", Wichita, Sedgwick
County, Kansas. The utility easement is hereby granted as in-
dicated for the construction and maintenance of all public utilities.
The street is hereby dedicated to and for the use of the public.
The drainage easement is hereby granted as indicated for drainage
purposes. The floodway reserves are hereby reserved for
floodway purposes and shall be the responsibility of Lot 1
and Lot 2 respectively until such time as the appropriate
governing body elects to assume the responsibility for maintenance
and improvements of the drainage. No buildings shall be
constructed on or within said floodway; nor shall any fill, change
of grade, creation of said appropriate governing body,
without the permission of said appropriate governing body.
With such permission of said appropriate governing body,
additional improvements and/or activities may be permitted
within said floodway. Access controls as depicted on the
face of the plot are hereby granted to the City of Wichita,
Kansas. The permitted entrance locations shall be as
determined by the City Engineer of the City of Wichita,
Kansas. The Minimum Building Pad Elevations for the
lowest opening to the structures are as shown on the
accompanying plot.

Pizza Hut, Inc.

Timothy Hauschild
Timothy Hauschild

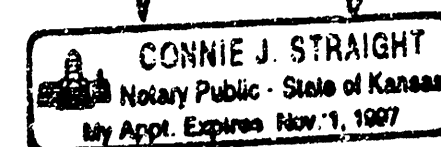
Young Men's Christian Association of Wichita, Kansas

Bill Buntin
Bill Buntin, President of the Board

State of Kansas) SS The foregoing instrument was acknowledged
Sedgwick County) before me this 11th day of December, 1993, by *Timothy Hauschild, Vice President*, Pizza Hut, Inc., a Delaware
corporation, for and on behalf of the corporation.

My Appointment Expires Nov. 1, 1997

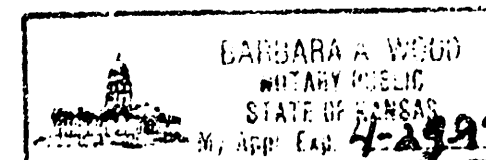
Connie J. Straight
Connie J. Straight, Notary Public



State of Kansas) SS The foregoing instrument was acknowledged
Sedgwick County) before me this 11th day of January, 1994, by Bill Buntin,
President of the Board, Young Men's Christian Association of Wichita,
Kansas, for and on behalf of the association.

My Appointment Expires April 25, 1997

Bonnie A. Wood
Bonnie A. Wood, Notary Public



This plot of "PHI 2ND ADDITION", Wichita,
Sedgwick County, Kansas, has been submitted to and approved by
the Wichita-Sedgwick County Metropolitan Area Planning Com-
mission, Wichita, Kansas.
Dated this 11th day of January, 1994.
Wichita-Sedgwick County Metropolitan Area Planning Commission.

James D. Miner, Chairman
Ma. in S. Krout, Secretary

This plot approved and all dedications
shown hereon accepted by the City Council of the City of Wichita,
Kansas, this 11th day of January, 1994.

Elma Broadfoot, Mayor
Pat Burnett, City Clerk

State of Kansas) SS This is to certify that this plot has been
Sedgwick County) filed for record in the office of the Register of Deeds, this 11th day
of January, 1994, at 10 o'clock A.M. and is duly
recorded.

Pat Kettler, Register of Deeds
Ed Reso, Deputy

Entered on transfer record this 11th day
of January, 1994.

Susan E. Crockett-Spoon, County Clerk

10/10

18-3-4-10