# STORM WATER SEWER NO. 279

## PROJECT NO. 468-76-245-81429-000-000-001

### INDEX


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### SYMBOLS

| | |
|---|---|
| GAS LINE | —G— |
| WATER LINE | —W— |
| SANITARY SEWER | —S— |
| [illegible] JOINT | |
| P[illegible]ENT REMOVAL | |

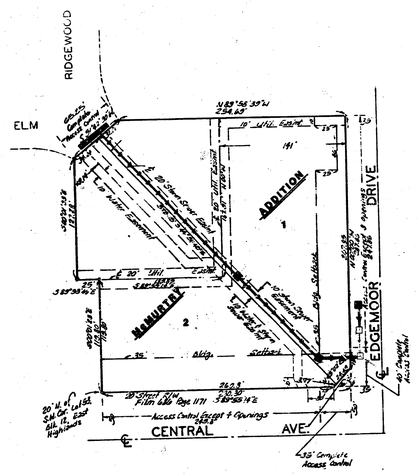
### BENCH MARK

Rim of Manhole located 8' left of Sta. 1+88 Line 2
Elevation = 188.45

'+' cut located at the back of the sidewalk approximately 55' west and 50' north of the CL of Central & Edgemoor
Elevation = 187.09

N

SCALE 1"=60'




BENEFIT DISTRICT

### GENERAL NOTES

The contractor shall co-ordinate the storm sewer construction with the contractor of the 6" water main relocation.

The contractor shall notify all the necessary utility companies for verification of their underground lines in the field prior to construction.

The contractor shall also notify specifically The Gas Service Company in order to closely co-ordinate the relocation of their line at Elm and Ridgewood simultaneously with the storm sewer construction and street removal at that location.

The contractor shall use saw joint where necessary for pavement removal. The cost of any sawed joint shall be considered as incidental to the cost of pavement removal.

The contractor shall remove and reset the 30" RCP stub at Sta. 0+39.4 Line 1. The cost shall be considered as incidental to the cost of the 30" RCP.

The contractor shall regrade all disturbed areas within the street RW back in good finished condition. The trench areas and other areas of pavement removal shall be graded back to an even grade.

The intersection at Elm and Ridgewood shall be properly signed and barricaded to traffic during construction at this location.

The contractor shall remove one sign as indicated on the plans. The cost of the sign removal shall be considered as incidental to the project.

As Builts
9/85
GREENE

## CITY OF WICHITA, KS

**MICHAEL E. LINDEBAK CITY ENGINEER**

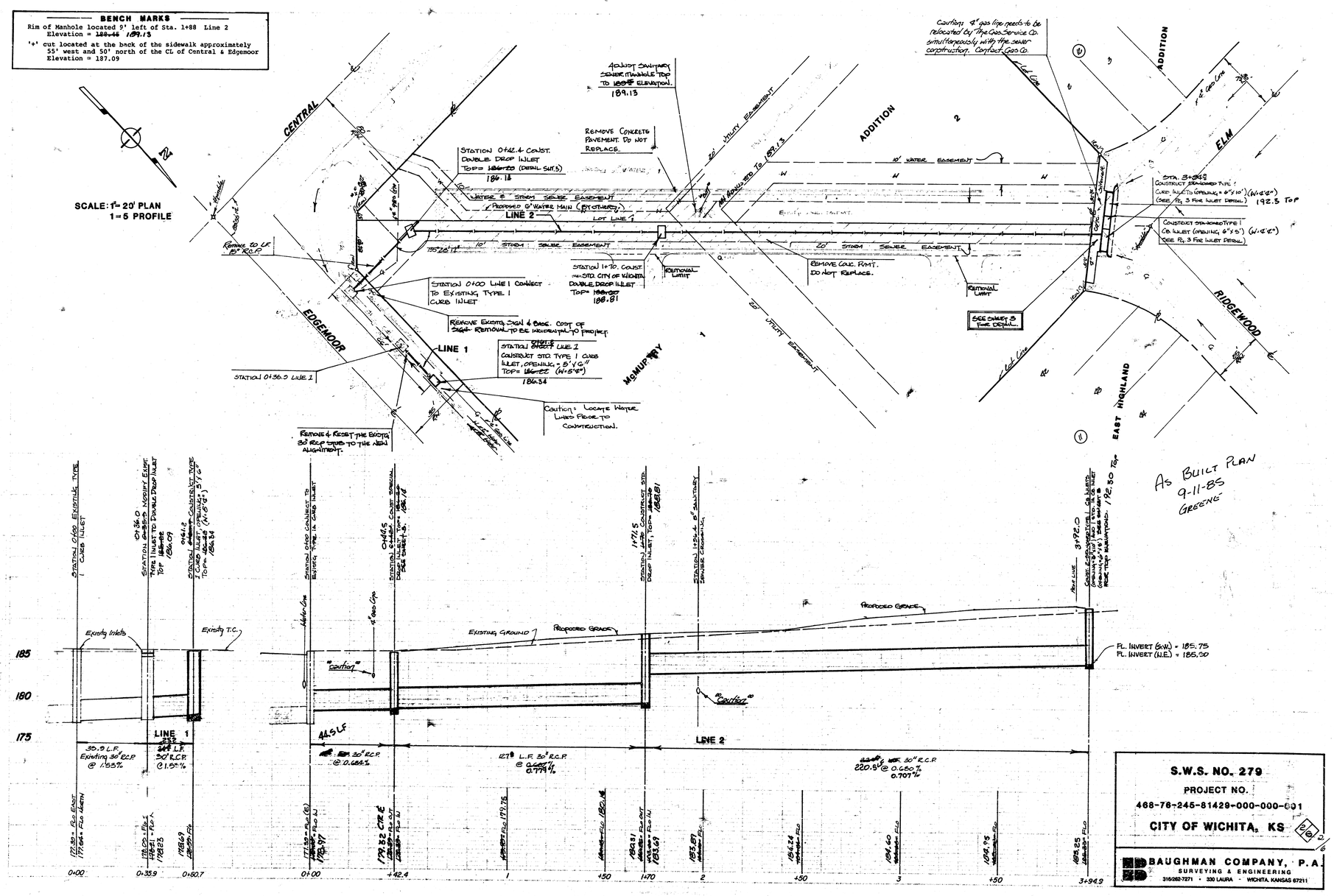
KANSAS LICENSED 8470 PROFESSIONAL ENGINEER

APRIL 1985


BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211


1/6


FILMED FROM THE BEST




As Built Plan
9-11-85
Greene

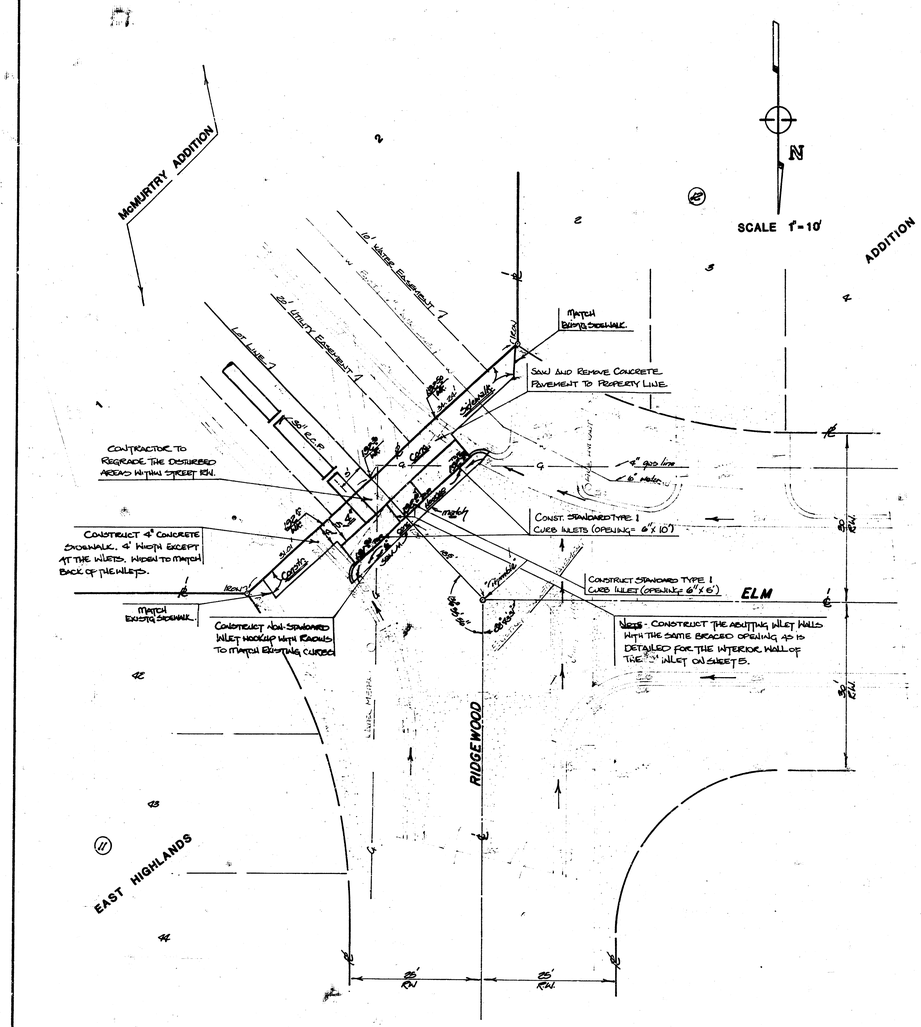
**S.W.S. NO. 279**

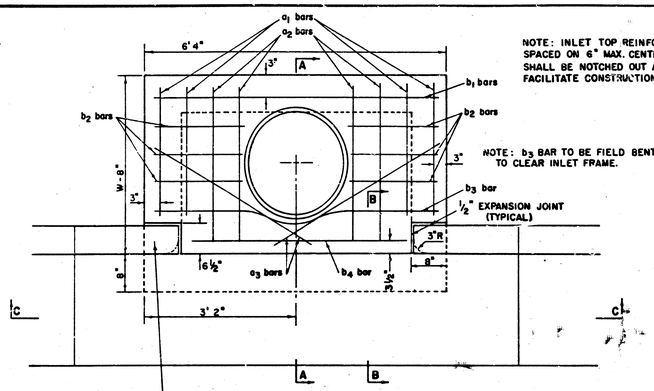
PROJECT NO.

468-76-245-81429-000-000-001

CITY OF WICHITA, KS

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211


McMURTRY ADDITION
ADDITION
SCALE 1"=10'
N
10' Water Easement
8" Utility Easement
Lot Line
Match Existing Sidewalk
Saw and Remove Concrete Pavement to Property Line.
Contractor to Regrade the Disturbed Areas within Street R/W.
Construct 4" Concrete Sidewalk, 4' Width Except at the Inlets. Widen to Match Back of the Inlets.
Match Existing Sidewalk
Construct Non-Standard Inlet Hookup with Radius to Match Existing Curbs
Const. Standard Type I Curb Inlets (Opening= 6"x 10')
Construct Standard Type I Curb Inlet (Opening= 6"x 6')
Note - Construct the abutting inlet walls with the same bracing opening as is detailed for the interior wall of the "I" inlet on sheet 5.
ELM
RIDGEWOOD
EAST HIGHLANDS
Match
Existing Curb
Match
Existing Curb
4" Gas Line
8" Water
Existing Curb
Existing Curb
Existing Curb

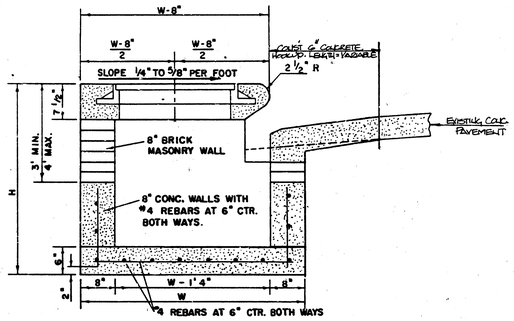



PLAN

WARP CURB TO MATCH INLET TOP WITH 1' MIN. TRANSITION LENGTH

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: $b_3$ BAR TO BE FIELD BENT TO CLEAR INLET FRAME.



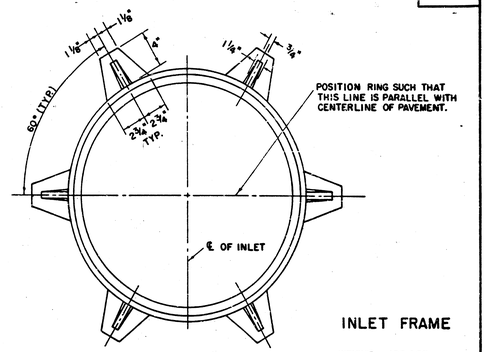

SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

NOTE CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

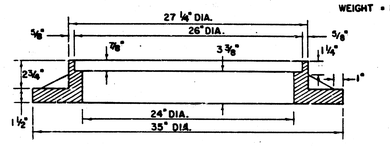
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.




INLET FRAME

WEIGHT = 180 LBS.



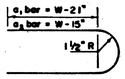

SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

STEEL SCHEDULE

| BAR | | $a_1$ | $a_2$ | $a_3$ | $b_1$ w=4'4" | $b_1$ w=5'4" | $b_1$ w=6'4" | $b_1$ w=7'4" | $b_1$ w=8'4" | $b_2$ | $b_3$ | $b_4$ | WT. LBS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NUMBER | | 4 | 4 | 2 | 1 | 3 | 5 | 7 | 9 | 6 | 1 | 1 | |
| SIZE | | #4 | #4 | #4 | #8 | #4 | #8 | #4 | #4 | #4 | #4 | #6 | |
| LENGTH | W=4'4" | 5'7" | 6'7" | 4'0" | 6'1" | - | - | - | - | 1'9" | 6'2" | 4'8" | 60± |
| | W=5'4" | 7'7" | 8'7" | 5'0" | -- | 6'1" | - | - | - | 1'9" | 6'2" | 4'8" | 81± |
| | W=6'4" | 9'7" | 10'7" | 6'0" | - | - | 6'1" | - | - | 1'9" | 6'2" | 4'8" | 101± |
| | W=7'4" | 11'7" | 12'7" | 7'0" | - | - | - | 6'1" | - | 1'9" | 6'2" | 4'8" | 121± |
| | W=8'4" | 13'7" | 14'7" | 8'0" | - | - | - | - | 6'1" | 1'9" | 6'2" | 4'8" | 141± |

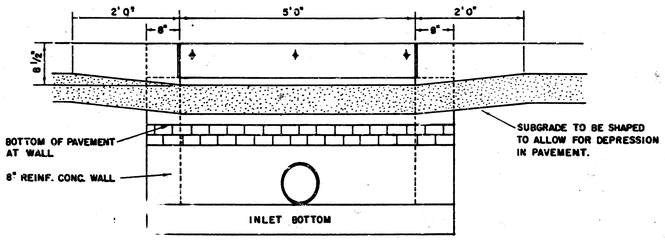
NOTE: $a_3$ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER.

| STANDARD CURB INLET PRECAST TOPS | | | |
|---|---|---|---|
| W | PRE-CAST TOP SIZE | PIPE SIZE | CU.YD. CONC. |
| 4' 4" | 5'8" 6'4" 7 1/2" | 21" & SMALLER | 0.38 ± |
| 5' 4" | 6'8" 6'4" 7 1/2" | 24" & 30" | 0.51 ± |
| 6' 4" | 7'8" 6'4" 7 1/2" | 36" & 42" | 0.64 ± |
| 7' 4" | 8'8" 6'4" 7 1/2" | 48" & 54" | 0.77 ± |
| 8' 4" | 9'8" 6'4" 7 1/2" | 60" & 66" | 0.90 ± |

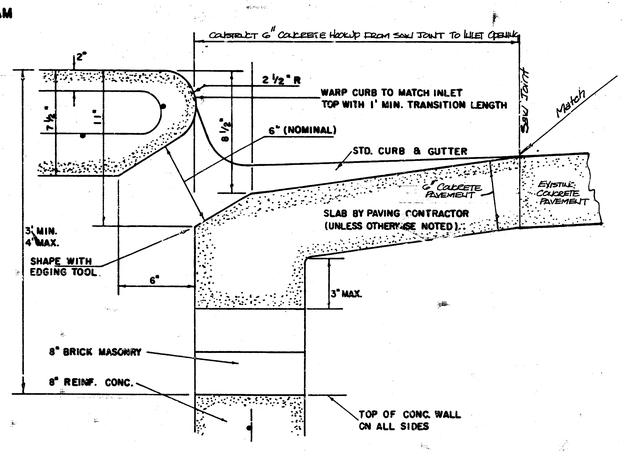



BENDING DIAGRAM

SECTION B-B




SECTION C-C




REVISED 12-21-1984

# DETAIL STANDARD TYPE I CURB INLET

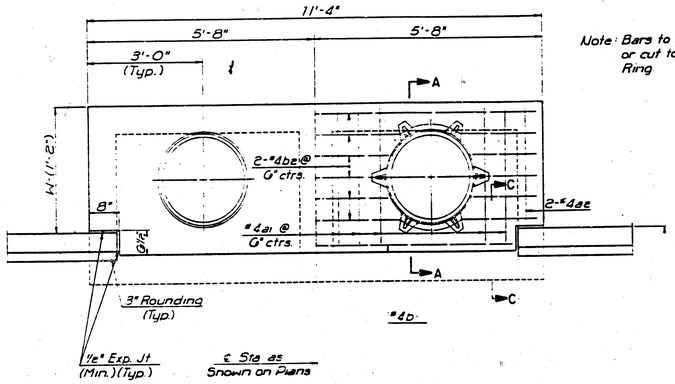
CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5'0"

JUNE 1984

4/6

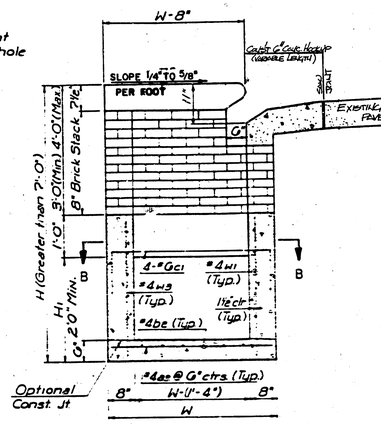
| SHEET NO | TOTAL SHEETS |
|---|---|
| | |



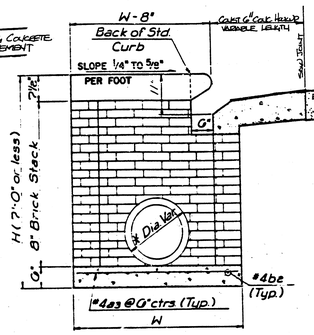

Note: Bars to be field bent or cut to clear Manhole Ring.

SLAB REINFORCING NOT SHOWN SHOWING SLAB REINFORCING

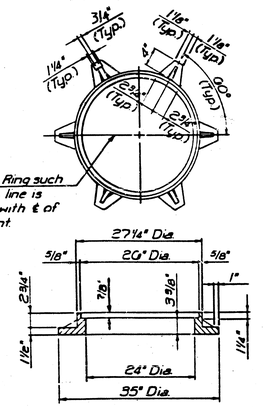
PLAN




TYPICAL INLET SECTION AT CENTER WALL
(Reinforced Concrete Walls)



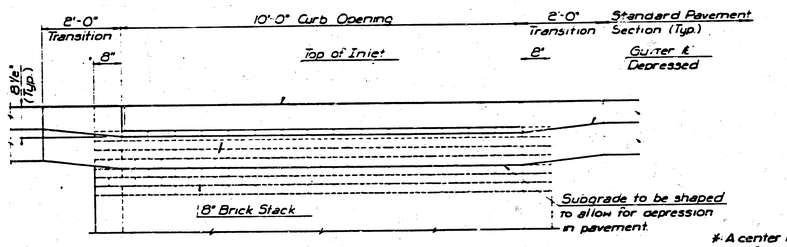

TYPICAL INLET SECTION AT CENTER WALL
(Masonry Walls)



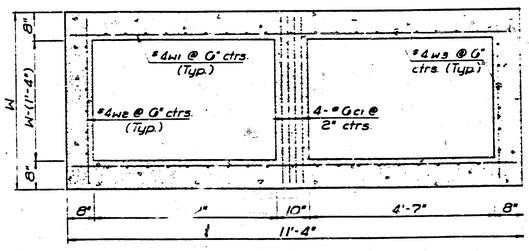

Position Ring such that this line is parallel with ℄ of Pavement.

INLET FRAME (Weight = 180 LBS.)

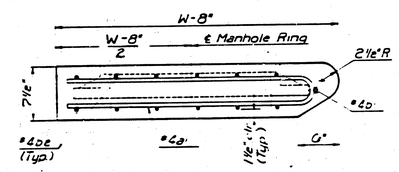
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.




ELEVATION




SECTION B-B




SECTION A-A

* A center wall opening shall be provided by means of a section of reinforced concrete pipe. The minimum diameter used shall be that of the outlet pipe.

Note: Concrete top to be installed on thin mortar cushion to insure full support along walls.

**SLAB AND FLOOR REINFORCING**

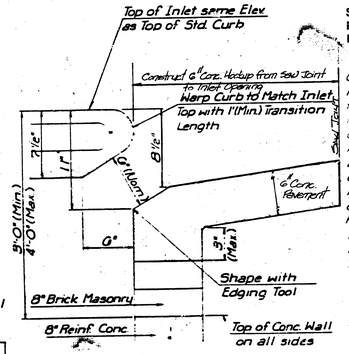
| | | W=4'-4" | | W=5'-4" | | W=6'-4" | | W=7'-4" | | W=8'-4" | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mark | Size | No | Length | No | Length | No | Length | No | Length | No | Length |
| a1 | #4 | 13 | 6'-7¼" | 13 | 8'-7¼" | 13 | 10'-7¼" | 13 | 12'-7¼" | 13 | 14'-7¼" |
| ae | #4 | 2 | 6'-0" | 2 | 8'-0" | 2 | 10'-0" | 2 | 12'-0" | 2 | 14'-0" |
| a3 | #4 | 20 | 4'-1" | 20 | 5'-1" | 20 | 6'-1" | 20 | 7'-1" | 20 | 8'-1" |
| D1 | #4 | 1 | 0'-8" | 1 | 0'-8" | 1 | 0'-8" | 1 | 0'-8" | 1 | 0'-8" |
| *be | #4 | 18 | 11'-1" | 24 | 11'-1" | 30 | 11'-1" | 36 | 11'-1" | 42 | 11'-1" |

**WALL REINFORCING**

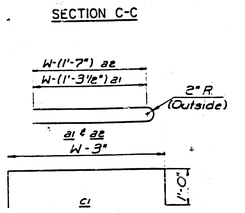
| | | W=4'-4" | | W=5'-4" | | W=6'-4" | | W=7'-4" | | W=8'-4" | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mark | Size | No | Length | No | Length | No | Length | No | Length | No | Length |
| c1 | #6 | 4 | 6'-1" | 4 | 7'-1" | 4 | 8'-1" | 4 | 9'-1" | 4 | 10'-1" |
| w1 | #4 | 1 | 11'-1" | 1 | 11'-1" | 1 | 11'-1" | 1 | 11'-1" | 1 | 11'-1" |
| w2 | #4 | 1 | 4'-1" | 1 | 5'-1" | 1 | 6'-1" | 1 | 7'-1" | 1 | 8'-1" |
| w3 | #4 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 |

*Field bend or cut Reinforcing as required for clearance

①4(H1-6") ②40+4(W-1) ③H1-(0")




SECTION C-C




BENDING DIAGRAMS

**GENERAL NOTES**

Concrete shall be C.O.W. Standard Paving Mix. All exposed edges shall be finished with an edging tool. Reinforcing Bars shall be field bent or cut to clear pipes. All bars are #4 bars at 6" Spacing and shall have a minimum clearance of 1½" unless otherwise noted. Floors of inlet shall be shaped with 8 Sack Sand Mix Concrete to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outfall pipe(s). The Contractor will be required to construct 8" Brick Masonry Walls between the concrete inlet base and top on this inlet when H=7'-0" or less and W=6'-4" or less.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

REVISED 12-21-1984

# DETAIL STANDARD TYPE I CURB INLET

INLET OPENING = 6' x 10'-0"

CITY OF WICHITA

M. E. LINDEBAK, CITY ENGINEER

OCTOBER 1984

5/6

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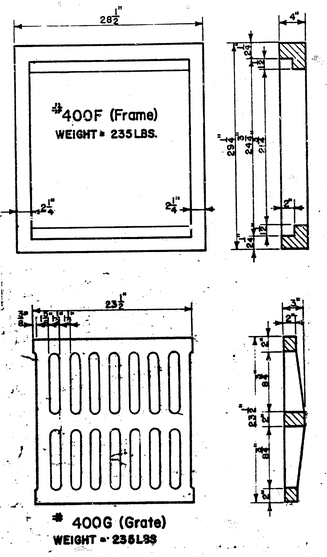
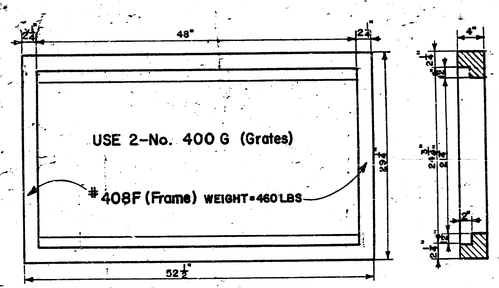
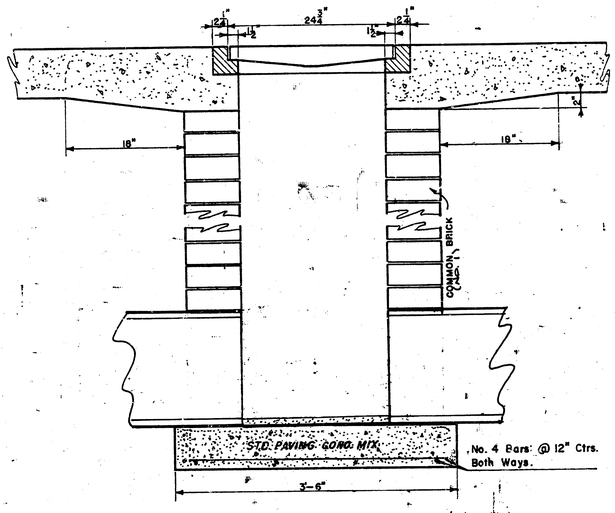
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters of at least 1" in height. Other marking methods may be used only if approved by the engineer.

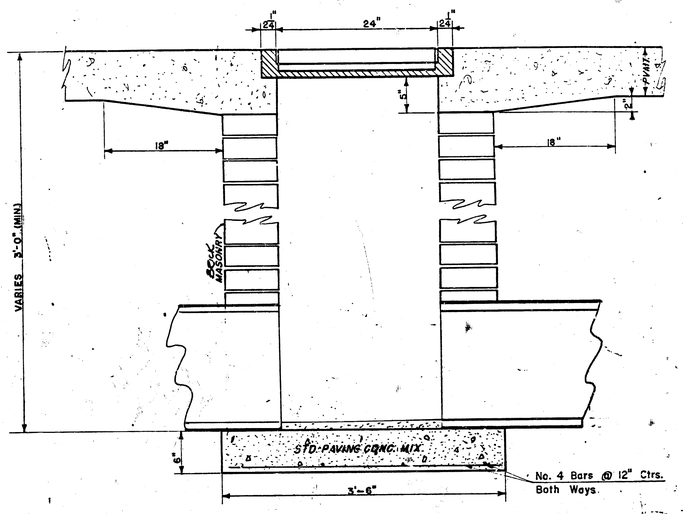


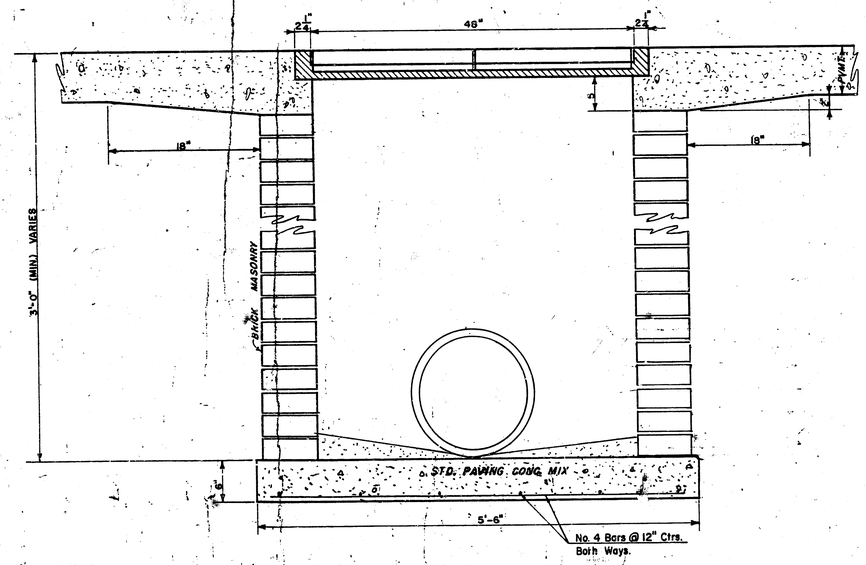

24"x24" Frame & Grate Detail




Double 24"x24" Frame Detail




# DROP INLET DETAILS

M.E. Lindebak, City Engineer
City of Wichita, Kansas
Project SWS #259
Project #468-76-245-81429-000-000-001
Date: APRIL 1985
Scale: 1-1/2" = 1'-0"

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