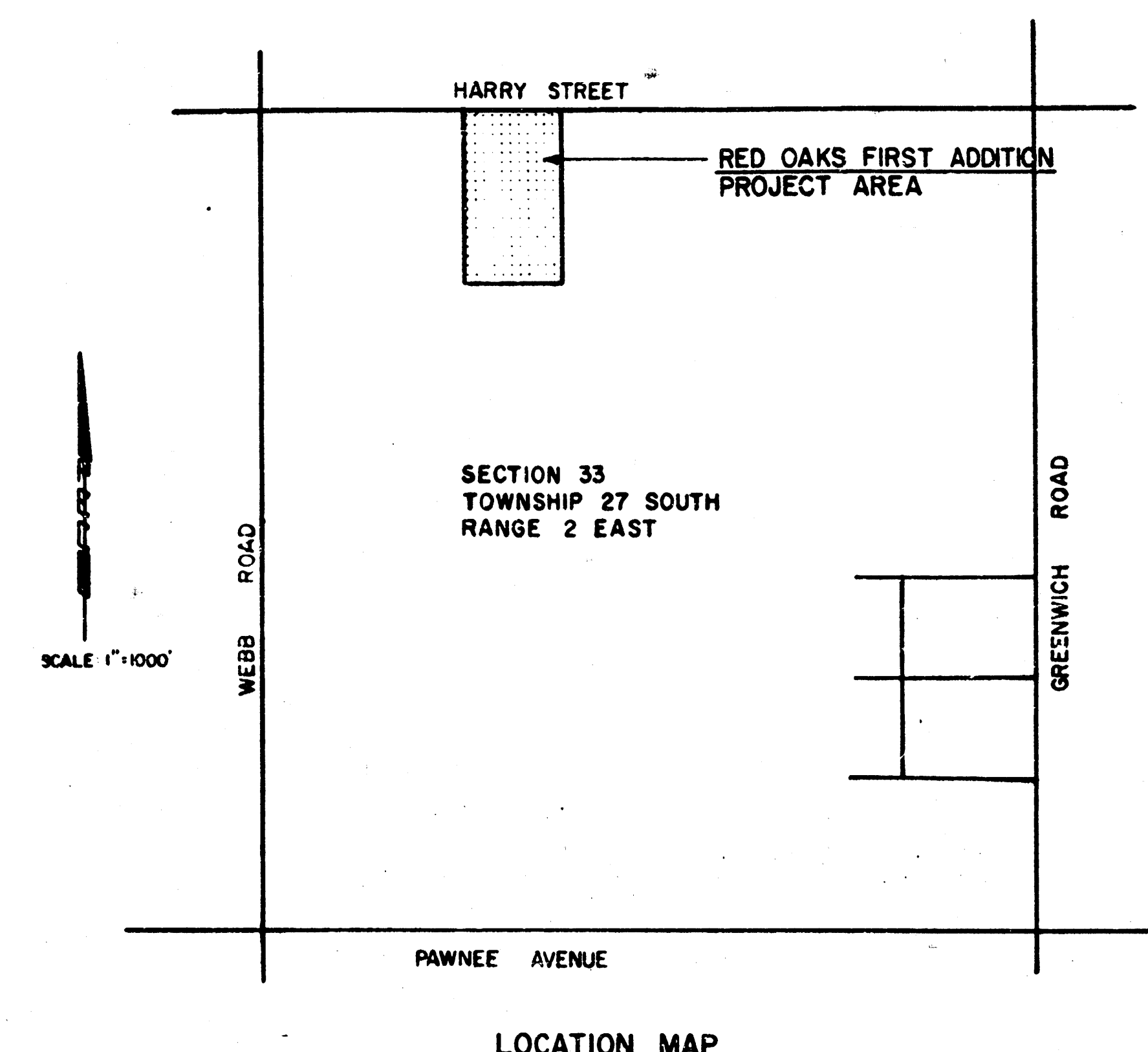
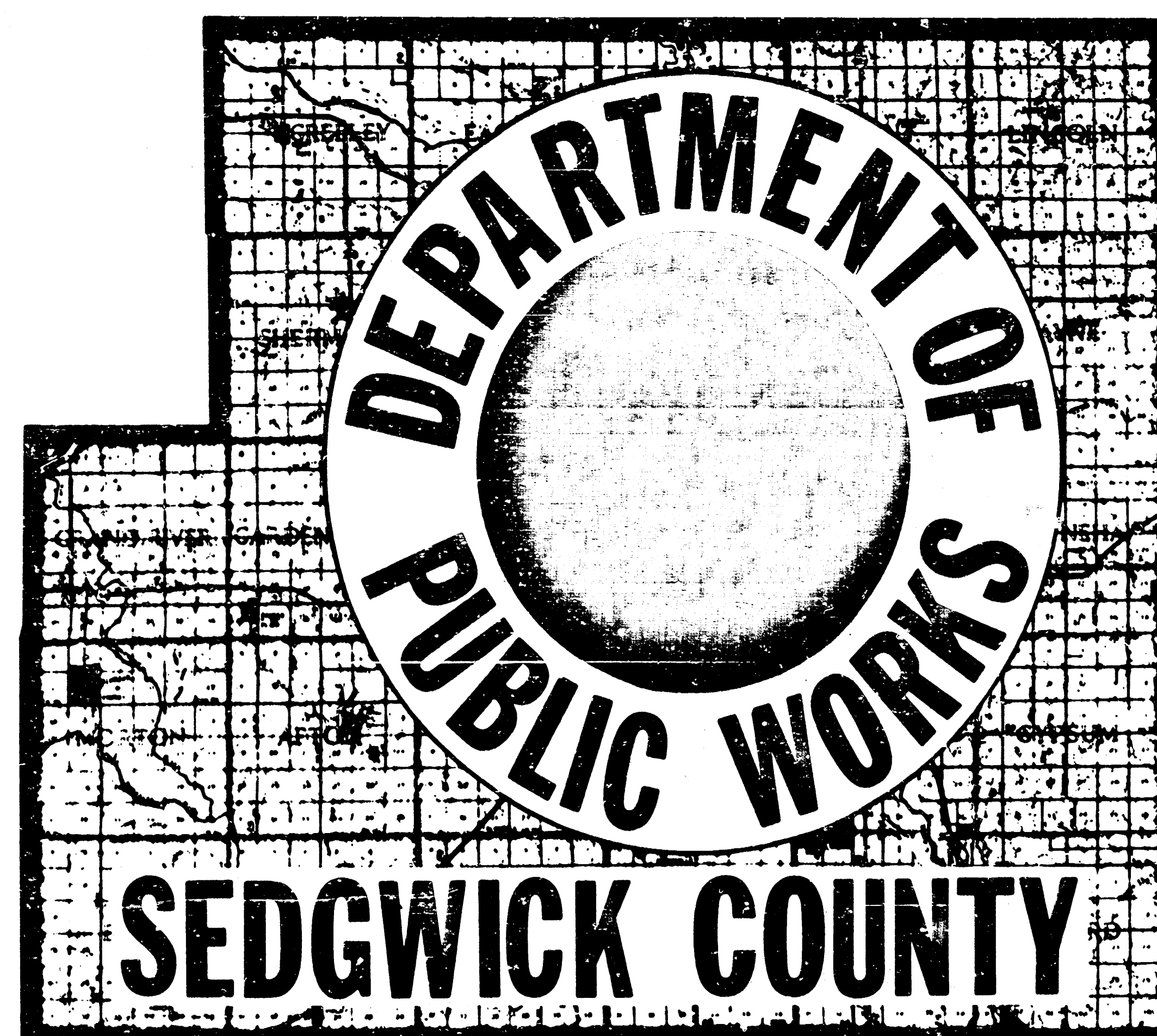


|           |              |
|-----------|--------------|
| SHEET NO. | TOTAL SHEETS |
| 1         | 6            |

| INDEX OF SHEETS |                        |
|-----------------|------------------------|
| SHEET NO. 1     | TITLE SHEET            |
| SHEET NO. 2     | KEY MAP & SCHEDULE     |
| SHEET NO. 3-10  | SANITARY SEWER DETAILS |
| SHEET NO. 11-16 | PLAN PROFILES          |



CONSTRUCTION PLANS FOR

# SANITARY SEWER IMPROVEMENTS

IN

## PARK MEADOW ESTATES LATERAL SEWER DISTRICT

SEDGWICK COUNTY, KANSAS  
PROJECT NO. 30-76496-4-024  
NOVEMBER 1978

**AS CONSTRUCTED**  
*12/14/78*  
BY *12/14/78*

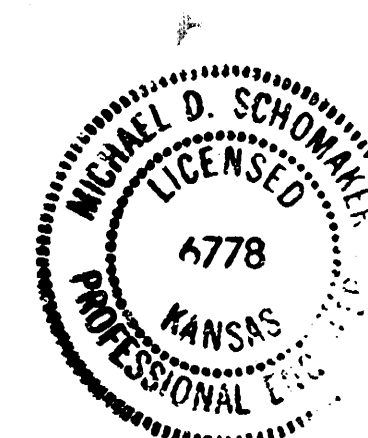
APPROVED  
*R.W. Linn*  
CITY ENGINEER OF WICHITA, KANSAS  
DATE 12/14/78

FILED  
FILED IN THE OFFICE OF  
THE SEDGWICK COUNTY CLERK  
*12/14/78*  
COUNTY CLERK DATE

APPROVED  
*W.M. Linn Jr.*  
COUNTY ENGINEER/DIRECTOR OF PUBLIC WORKS  
DATE 1-17-79

APPROVED 1-18-79 DATE  
*W.M. Linn Jr.*  
CHAIRMAN  
BOARD OF COUNTY COMMISSIONERS

APPROVED DATE  
*Steve Jones* 12/15/78  
WICHITA SEDGWICK COUNTY  
DEPARTMENT OF COMMUNITY HEALTH



PHASE II-A

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS  
WICHITA, KANSAS

CONVENTIONAL SIGNS

|                         |         |
|-------------------------|---------|
| WIRE FENCE              | —*—*—*  |
| HEDGE ROW               | ~~~~~   |
| RAILROADS               | +++++   |
| SURVEY LINE             | —3—10—  |
| RIGHT OF WAY            | —+—+—   |
| TELEPHONE POLE          | •       |
| POWER POLE              | •       |
| COMB. POWER & TELEPHONE | •       |
| TOWNSHIP LINE           | //////  |
| CONSTRUCTION LIMITS     | -----   |
| GUARD FENCE             | —•—•—•— |
| TREES                   | ○○      |

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# GENERAL NOTES

1. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION ON HARRY STREET AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES TO ENSURE SAFETY AS DIRECTED IN ARTICLE 18 OF THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHTS AND WEEKENDS TO LESS THAN 50 FEET.
2. THE CONTRACTOR WILL BE REQUIRED TO NOTIFY EACH OF THE FOLLOWING UTILITY COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION AND SHOULD REQUEST THAT ANY EXISTING LINES BE FLAGGED:
 

KANSAS GAS & ELECTRIC COMPANY  
1900 EAST CENTRAL  
264-1111 (Ext. 248) JERRY LANE

GAS SERVICE COMPANY  
1021 EAST 26TH STREET NORTH  
263-7511 ENGINEERING DEPARTMENT

CITY OF WICHITA WATER DEPARTMENT  
455 NORTH MAIN  
268-4557 BENNY GEGEN

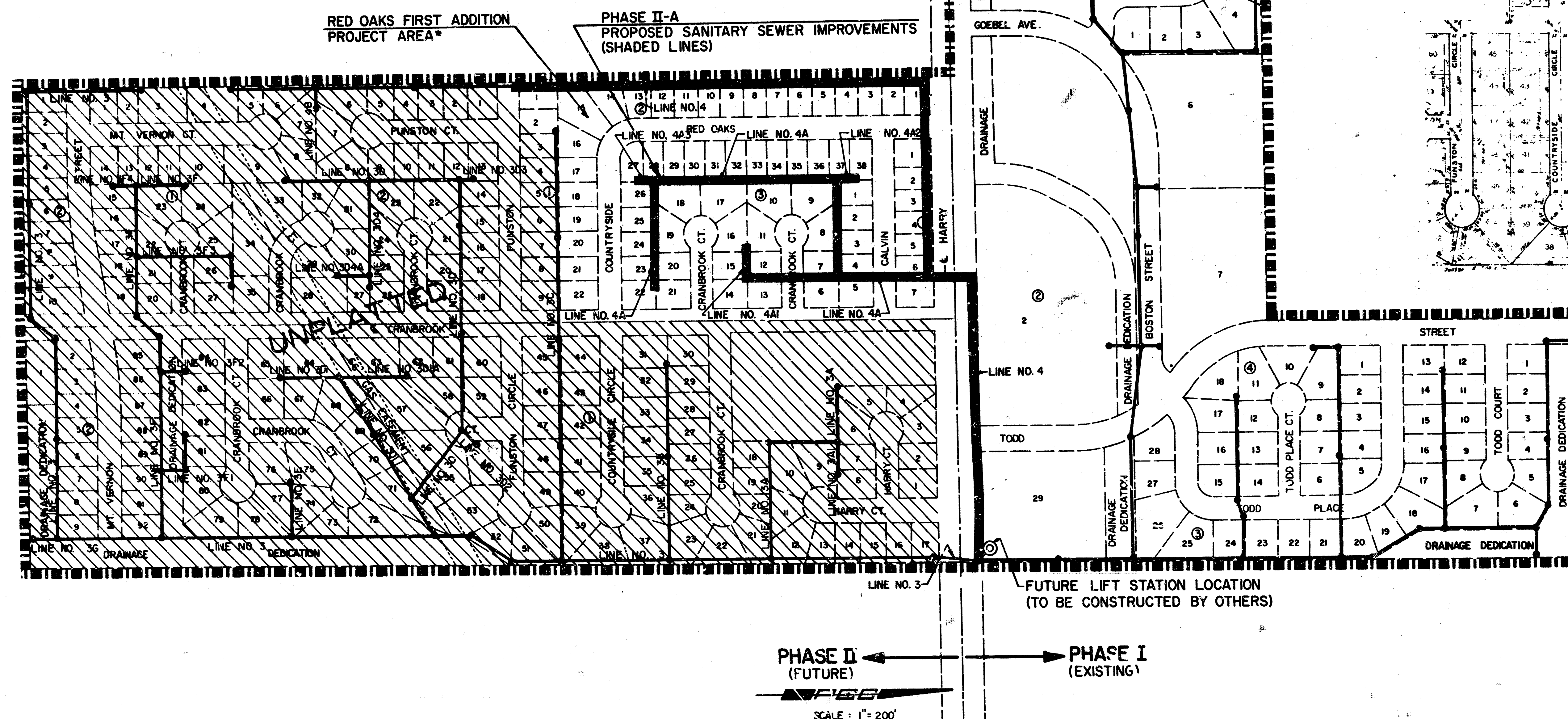
SOUTHWESTERN BELL TELEPHONE COMPANY  
154 NORTH BROADWAY  
262-5500
3. THE CONTRACTOR MUST ALSO NOTIFY THE TELEPHONE COMPANY 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK NEAR BURIED TELEPHONE LINES.
4. WHERE REMOVAL OF EXISTING FENCES PARALLEL TO THE CONSTRUCTION IS DEEMED NECESSARY BY THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE REMOVAL WITH ADJACENT PROPERTY OWNERS. ALL REMOVAL AND RESETTling OF FENCES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED SUBSIDIARY TO THE INSTALLATION OF THE PIPE.
5. ALL BACKFILL SHALL BE TYPE I BACKFILL (SEE SPECS) UNLESS OTHERWISE NOTED.
6. UNPLATTED UTILITY EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS WERE OBTAINED BY SEPARATE INSTRUMENT TO PROVIDE FOR THE CONSTRUCTION AND MAINTENANCE FOR SOME OF THE SEWER LINES IN THIS PROJECT. COPIES OF THESE EASEMENTS MAY BE OBTAINED FROM THE ENGINEER OR THE SEDGWICK COUNTY REGISTER OF DEEDS. THESE EASEMENTS ARE REFERRED TO AS FOLLOWS:

## BENCH MARK LIST

- B.M. #1 CHISELED SQUARE ON N.W. COR., R.C.B. APPROX. 1600'E. OF THE CENTERLINE OF WEBB ROAD AND HARRY STREET. ELEV.=1351.42 (MSL)
- B.M. #2 TOP IRON PIPE AT THE N.E. COR., LOT 7, BLK. 1, RED OAKS 1ST ADDITION TO SEDGWICK COUNTY, KANSAS. ELEV.=1351.30 (MSL)
- B.M. #3 SPIKE STEP IN POWER POLE ON THE S. SIDE OF HARRY STREET AT THE E. LINE OF PARK MEADOW ESTATES. ELEV.=1344.65 (MSL)
- B.M. #4 P.R. SPIKE IN A ROOT AT THE E. SIDE OF A 60" HEDGE TREE 40' E. OF THE S.E. COR. OF THE N.E. 1/4 OF THE N.W. 1/4 OF SEC. 33, T27S, R2E, OF THE 6TH P.M. ELEV.=1348.02 (MSL)
- B.M. #5 TOP 3/4" IRON PIPE AT THE S.W. COR. RED OAKS 1ST ADDITION. ELEV.=1357.63 (MSL)
- B.M. #6 TOP IRON PIPE AT THE S.E. COR., LOT 22, BLK. 2, RED OAKS 1ST ADDITION. ELEV.=1361.35 (MSL)

| SEWER LINE SCHEDULE |           |
|---------------------|-----------|
| LINE NO.            | SHEET NO. |
| 3                   | 5         |
| 4                   | 5         |
| 4A                  | 6         |
| 4A-1                | 6         |
| 4A-2                | 6         |
| 4A-3                | 6         |

## RED OAKS FIRST ADDITION TO SEDGWICK COUNTY, KANSAS



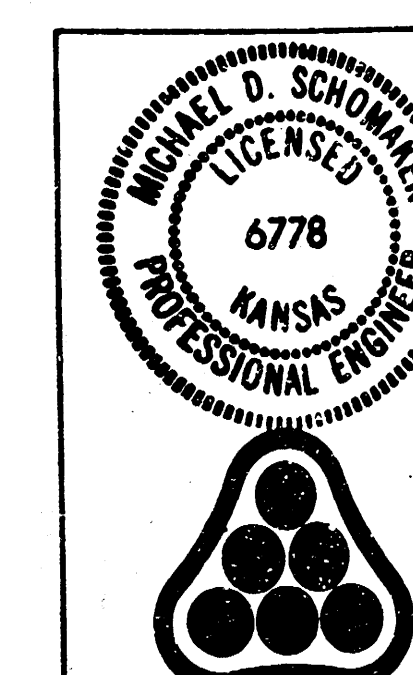
\* LOTS 16 THRU 22, BLOCK 2 IN RED OAKS FIRST ADDITION, NOT SERVICED BY SEWER LINES CONSTRUCTED BY THIS PROJECT.

The area west of Cranbrook is currently not platted as shown. However, Easements equal to those shown have been obtained by the Sedgwick Co. Dept. of Public Works.

## LEGEND

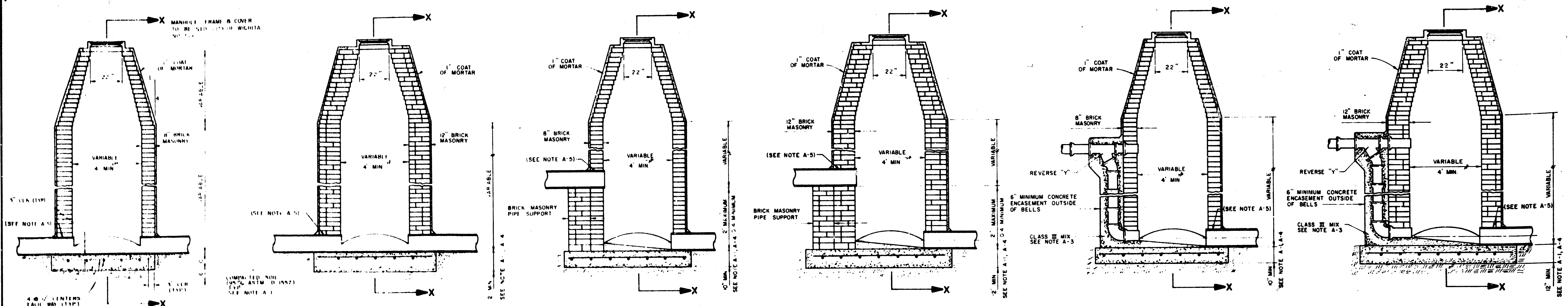
- PROPOSED IMPROVEMENTS
- PARK MEADOWS ESTATES LATERAL SEWER DISTRICT BOUNDARY
- UNPLATTED AREA AS SHOWN

AS CONSTRUCTED  
DATE: 11/2/78  
BY: [Signature]

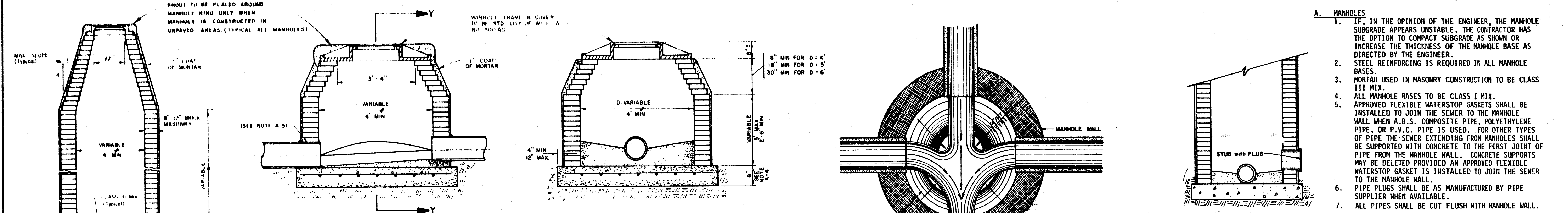


| No.                                                                                                | Revision                                                                                        | By     | Date |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------|------|
| 1                                                                                                  | SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS<br>G.C. McLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER |        |      |
| KEY MAP & SCHEDULE                                                                                 |                                                                                                 |        |      |
| SANITARY SEWER IMPROVEMENTS<br>PARK MEADOW ESTATES LATERAL SEWER DISTRICT, SEDGWICK COUNTY, KANSAS |                                                                                                 |        |      |
| PROFESSIONAL ENGINEERING CONSULTANTS, P.A.<br>ENGINEERS<br>WICHITA, KANSAS                         |                                                                                                 |        |      |
| Designed by MDS                                                                                    | Job No. 7040G                                                                                   | Sht. 2 | of 6 |
| Drawn by T.S., R.F.J.                                                                              | Date Nov., 1978                                                                                 |        |      |

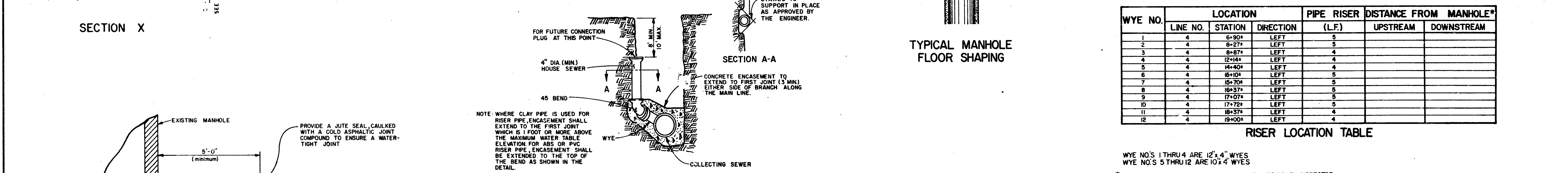
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STANDARD MANHOLE TYPE A      STANDARD MANHOLE TYPE AA      DROP MANHOLE TYPE B      DROP MANHOLE TYPE BB      OUTSIDE DROP MANHOLE TYPE C      OUTSIDE DROP MANHOLE TYPE CC



SECTION X      SHALLOW MANHOLE TYPE D      SECTION Y      TYPICAL MANHOLE FLOOR SHAPING



SPECIAL JOINTING DETAIL      RISER DETAIL      BORING ENCASMENT DETAIL      TIMBER SKID DETAIL

- NOTES**
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
  2. STEEL REINFORCING IS REQUIRED IN ALL MANHOLE BASES.
  3. MORTAR USED IN MASONRY CONSTRUCTION TO BE CLASS III MIX.
  4. ALL MANHOLE BASES TO BE CLASS I MIX.
  5. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S., COMPOSITE PIPE, POLYETHYLENE PIPE, OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE TO THE FIRST JOINT OF PIPE FROM THE MANHOLE WALL. CONCRETE SUPPORTS MAY BE DELETED PROVIDED AN APPROVED FLEXIBLE WATERSTOP GASKET IS INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL.
  6. PIPE PLUGS SHALL BE AS MANUFACTURED BY PIPE SUPPLIER WHEN AVAILABLE.
  7. ALL PIPES SHALL BE CUT FLUSH WITH MANHOLE WALL.

**WYE LOCATION TABLE**

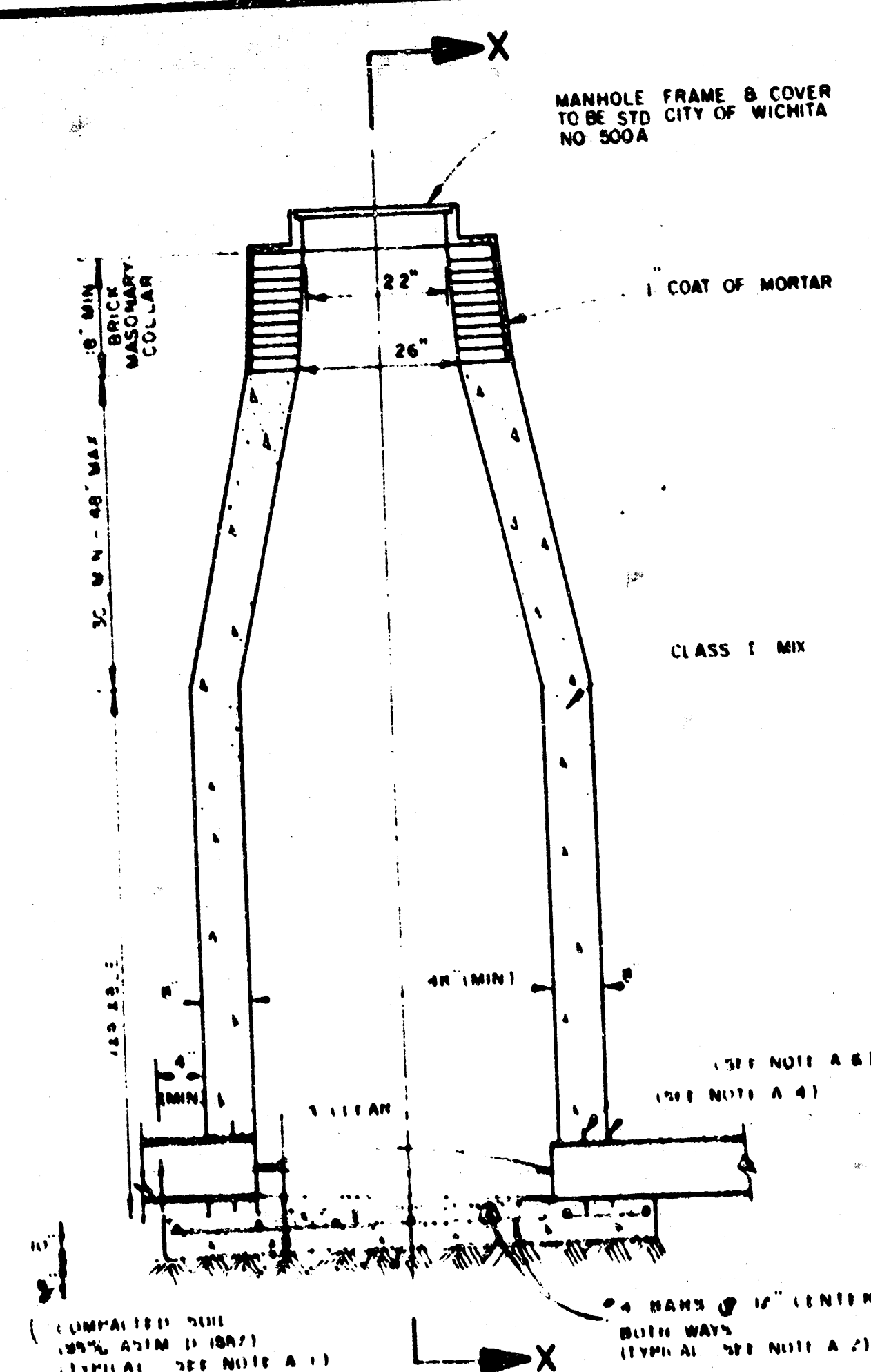
| WYE NO. | LOCATION |         |           | PIPE RISER (L.F.) | DISTANCE FROM MANHOLE* |            |
|---------|----------|---------|-----------|-------------------|------------------------|------------|
|         | LINE NO. | STATION | DIRECTION |                   | UPSTREAM               | DOWNSTREAM |
| 1       | 4        | 6+50    | LEFT      | 5                 |                        |            |
| 2       | 4        | 6+57    | LEFT      | 5                 |                        |            |
| 3       | 4        | 6+57    | LEFT      | 4                 |                        |            |
| 4       | 4        | 12+44   | LEFT      | 4                 |                        |            |
| 5       | 4        | 14+40   | LEFT      | 4                 |                        |            |
| 6       | 4        | 6+10    | LEFT      | 5                 |                        |            |
| 7       | 4        | 16+70   | LEFT      | 5                 |                        |            |
| 8       | 4        | 16+37   | LEFT      | 5                 |                        |            |
| 9       | 4        | 17+07   | LEFT      | 5                 |                        |            |
| 10      | 4        | 17+72   | LEFT      | 5                 |                        |            |
| 11      | 4        | 18+37   | LEFT      | 4                 |                        |            |
| 12      | 4        | 18+00   | LEFT      | 4                 |                        |            |

WYE NO'S 1 THRU 4 ARE 12"x4" WYES  
WYE NO'S 5 THRU 12 ARE 10"x4" WYES  
\* THIS ITEM TO BE COMPLETED BY THE RESIDENT INSPECTOR AT TIME OF INSTALLATION.

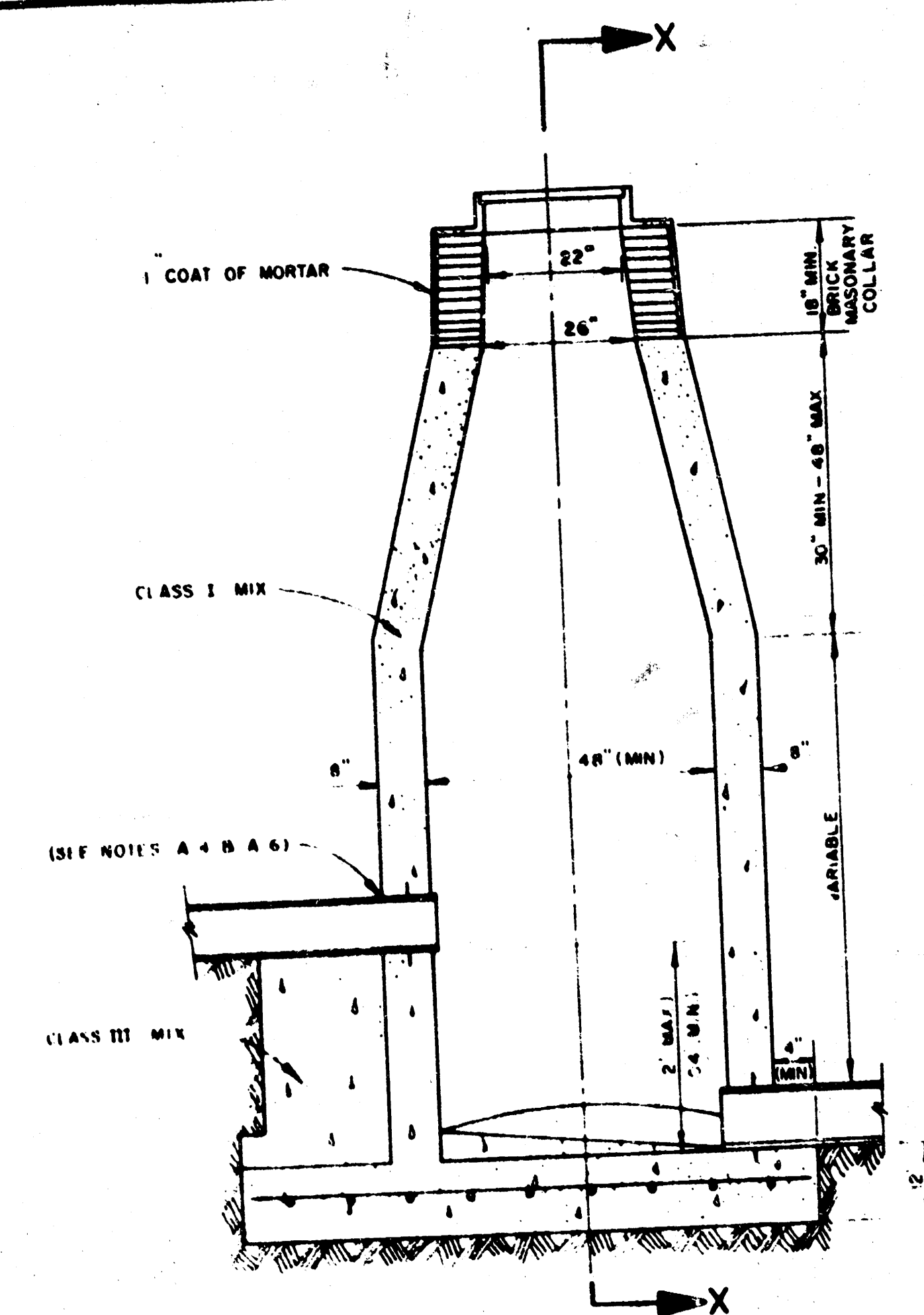
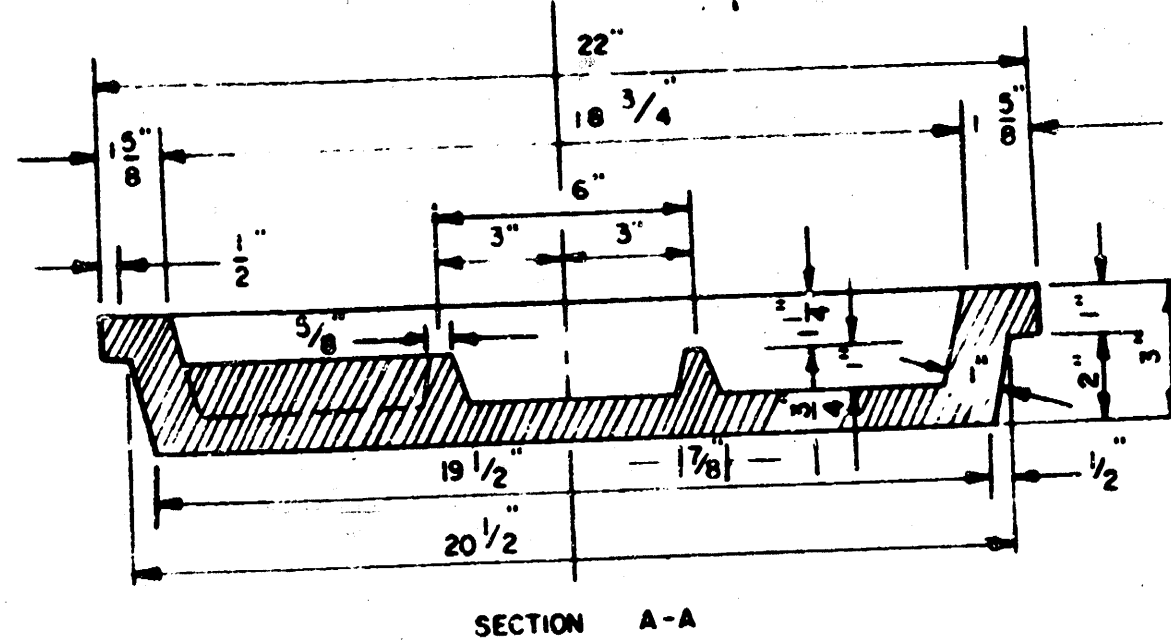
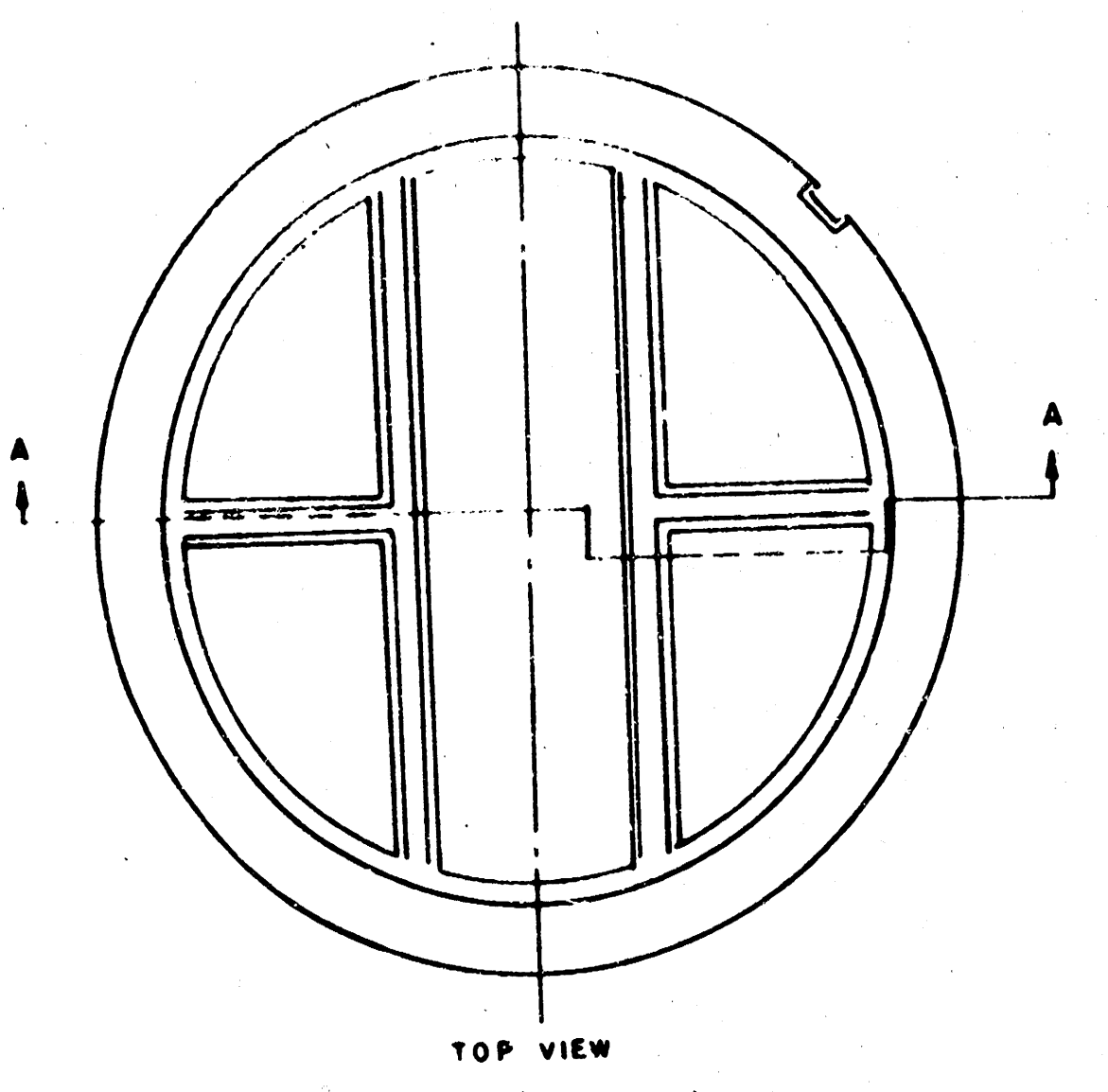
**AS CONSTRUCTED**  
W.D.S. PROJ. ENG. 11/2/78  
R.E.J. DATE

|             |                                                                                                   |         |         |             |
|-------------|---------------------------------------------------------------------------------------------------|---------|---------|-------------|
|             | Revision                                                                                          |         | By      | Date        |
|             | SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS<br>G.C. MCLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER   |         |         |             |
|             | <b>SANITARY SEWER DETAILS</b>                                                                     |         |         |             |
|             | SANITARY SEWER IMPROVEMENTS<br>PARK MEADOW ESTATES LATERAL SEWER DISTRICT SEDGWICK COUNTY, KANSAS |         |         |             |
|             | <b>PROFESSIONAL ENGINEERING CONSULTANTS, P.A.</b><br>ENGINEERS<br>WICHITA, KANSAS                 |         |         |             |
| Designed by | M.D.S.                                                                                            | Job No. | 76406   | Sht. 3 of 6 |
| Drawn by    | R.E.J.                                                                                            | Date    | Nov. 78 |             |

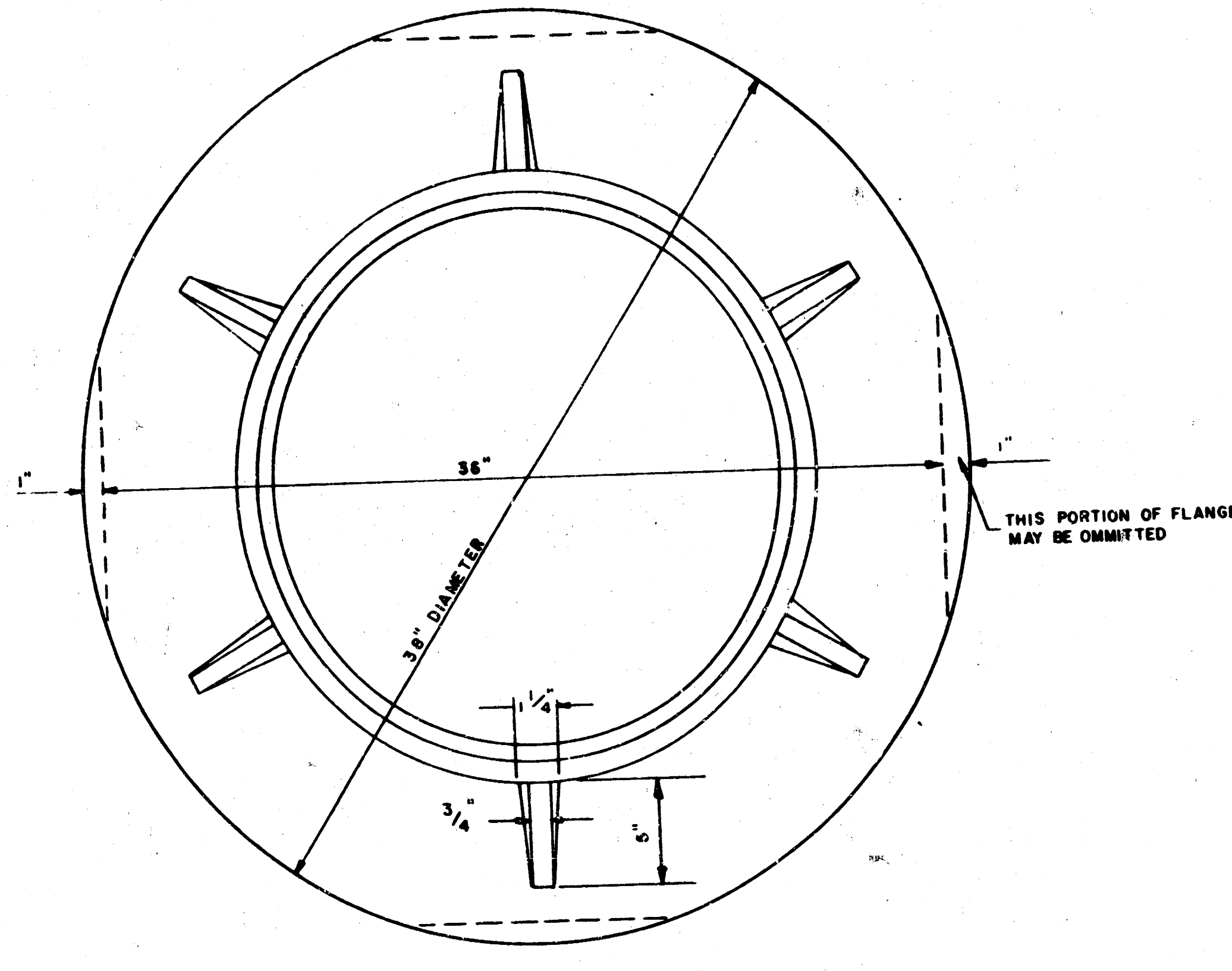
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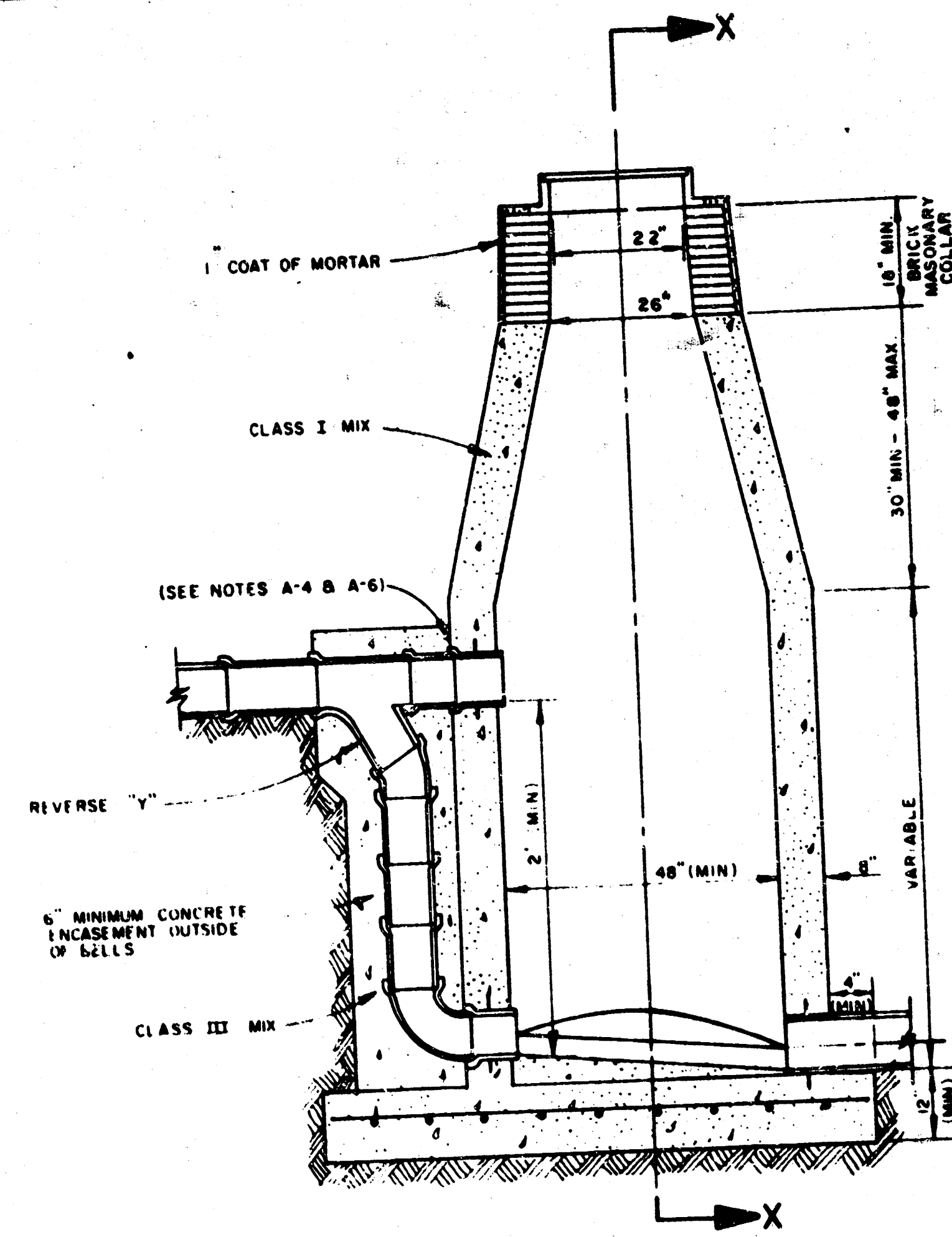
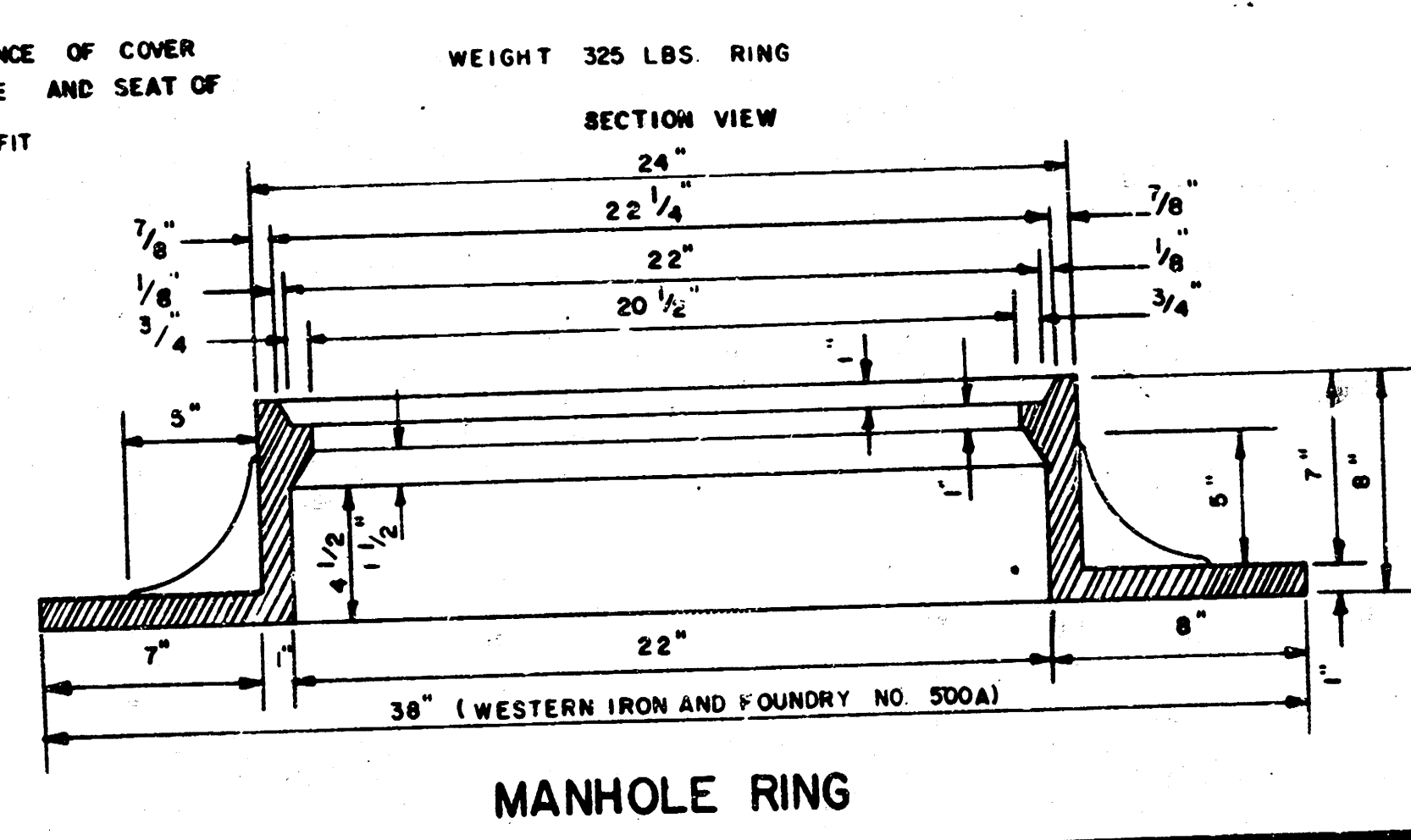
CAST IN PLACE STANDARD MANHOLE TYPE "E-A"



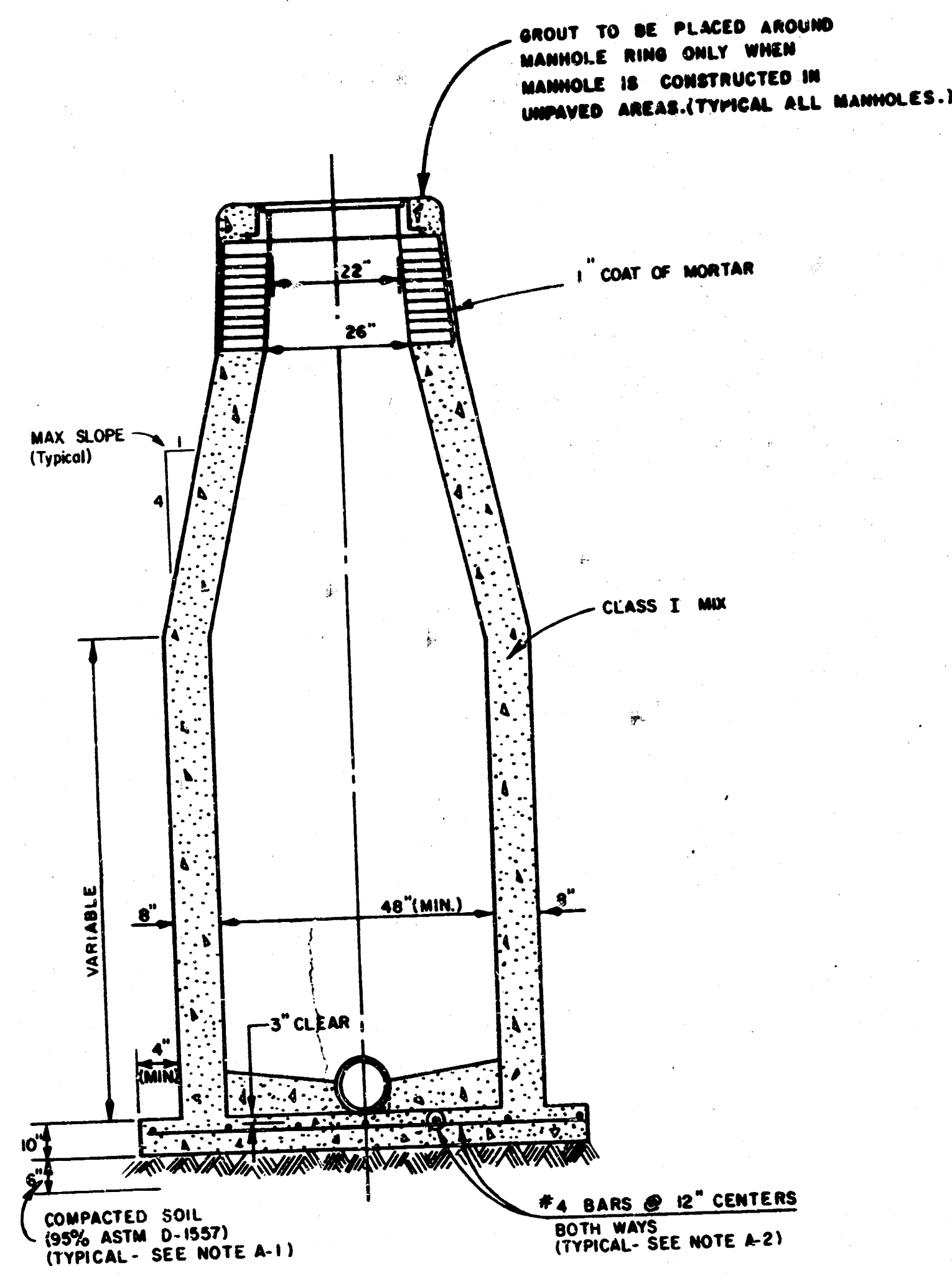
CAST IN PLACE DROP MANHOLE TYPE "E-B"



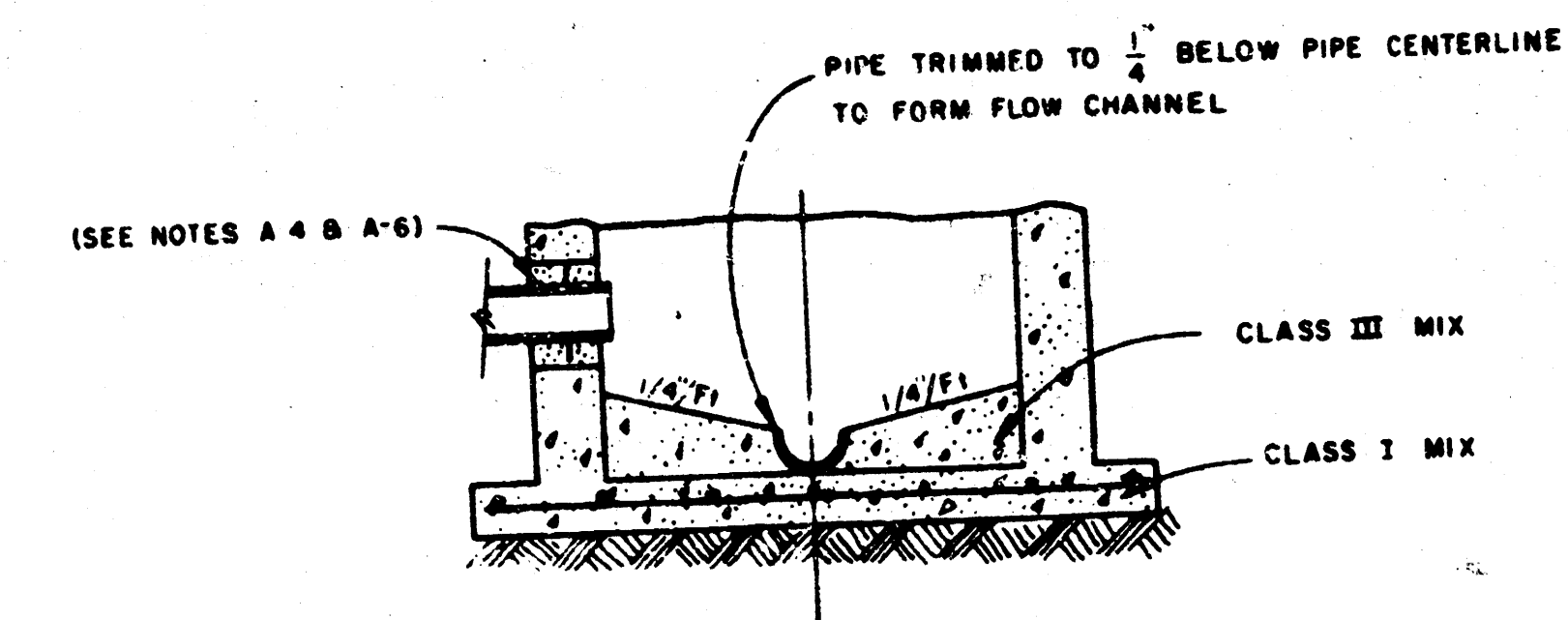
OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT



CAST IN PLACE OUTSIDE DROP MANHOLE TYPE "E-C"



GROUT TO BE PLACED AROUND MANHOLE RING ONLY WHEN MANHOLE IS CONSTRUCTED IN UNPAVED AREAS (TYPICAL ALL MANHOLES.)



SECTIONAL ELEVATION-INVERT

PRECAST MANHOLES

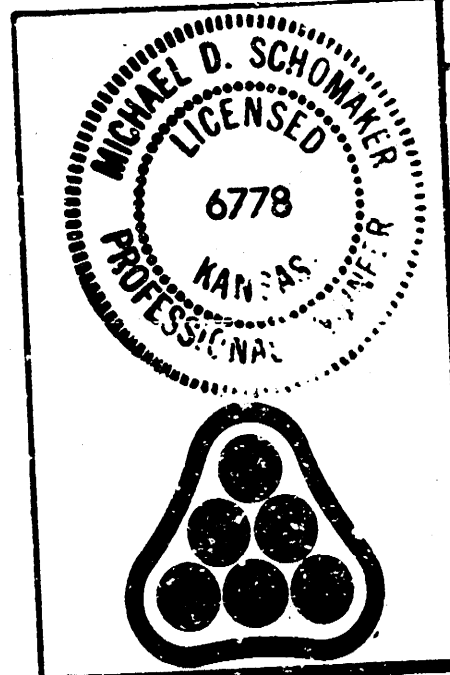
PRECAST MANHOLES MAY BE SUBSTITUTED FOR THE 8" THICK CAST-IN-PLACE MANHOLES. THE MANHOLE BASE AND OUTSIDE MANHOLE PIPE SUPPORTS FOR PRECAST MANHOLES WILL BE THE SAME AS SHOWN FOR CAST-IN-PLACE MANHOLES.

NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. MORTAR USED IN MASONRY CONSTRUCTION TO BE CLASS III MIX.
4. WHEN OPENINGS ARE CUT IN MANHOLE WALL FOR PIPE, THE PIPE WILL BE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.
5. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETRIORATION DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
6. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE, POLYETHYLENE PIPE, OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE TO THE FIRST JOINT OF PIPE FROM THE MANHOLE WALL. CONCRETE SUPPORTS MAY BE DELETED PROVIDED AN APPROVED FLEXIBLE WATERSTOP GASKET IS INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL.
7. PRECAST MANHOLES SHALL BE SET 4 INCHES INTO THE MANHOLE BASE.

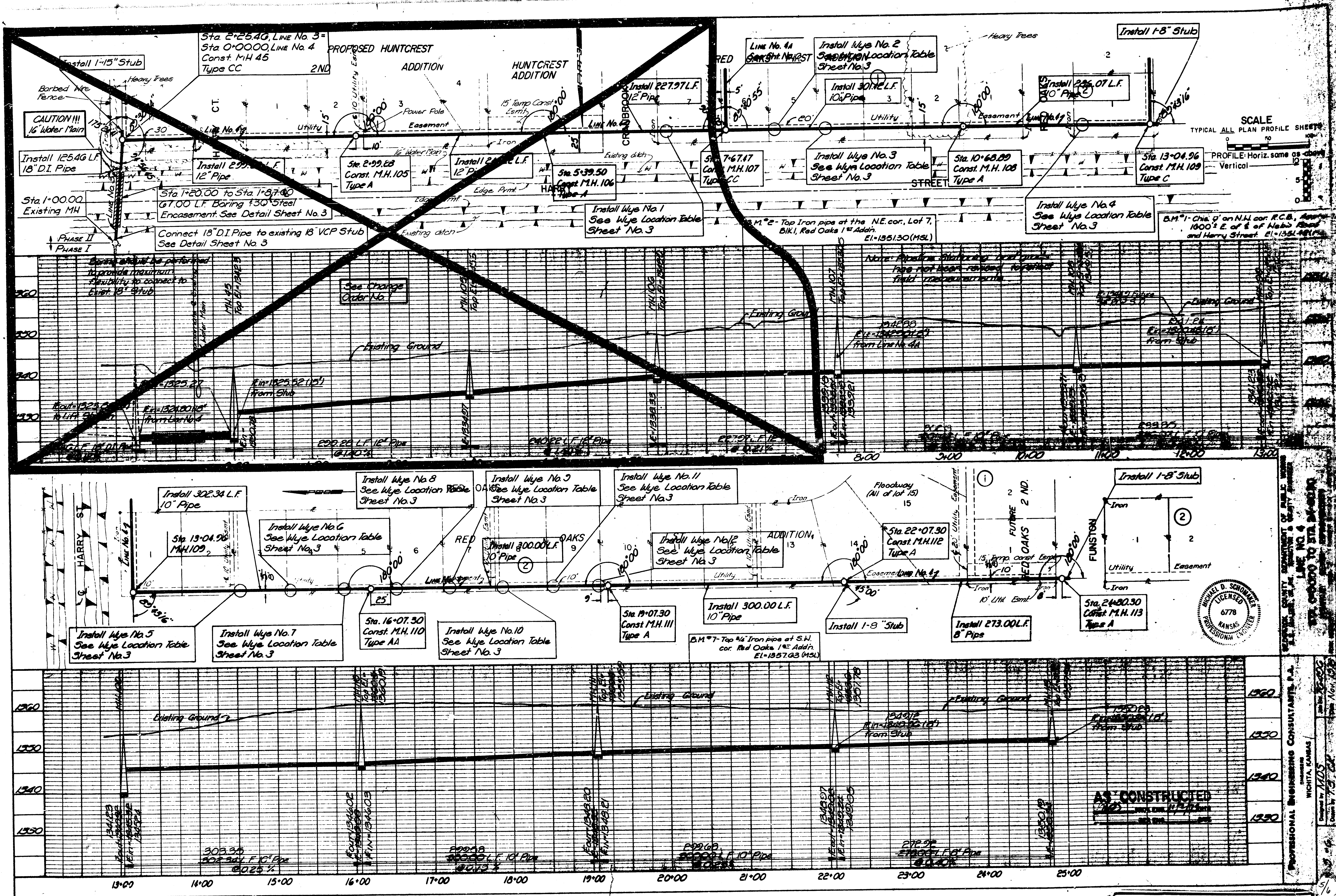
STANDARD MANHOLES TYPE "E-A", "E-B", AND "E-C" MAY BE BID IN LIEU OF STANDARD MANHOLES "A and AA", "B and BB", AND "C and CC", RESPECTIVELY.

AS CONSTRUCTED



|                                                                                                                                                                                                                         |          |         |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|---------|
| No.                                                                                                                                                                                                                     | Revision | By      | Date    |
| SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS<br>G.C. McLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER                                                                                                                         |          |         |         |
| <b>SANITARY SEWER DETAILS</b><br>SANITARY SEWER IMPROVEMENTS<br>PARK MEADOW ESTATES LATERAL SEWER DISTRICT SEDGWICK COUNTY, KANSAS<br><b>PROFESSIONAL ENGINEERING CONSULTANTS, P.A.</b><br>ENGINEERS<br>WICHITA, KANSAS |          |         |         |
| Designed by                                                                                                                                                                                                             | M.D.S.   | Job No. | 76496   |
| Drawn by                                                                                                                                                                                                                |          | Date    | 3/21/77 |
|                                                                                                                                                                                                                         |          | Sh.     | 4 of 46 |

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