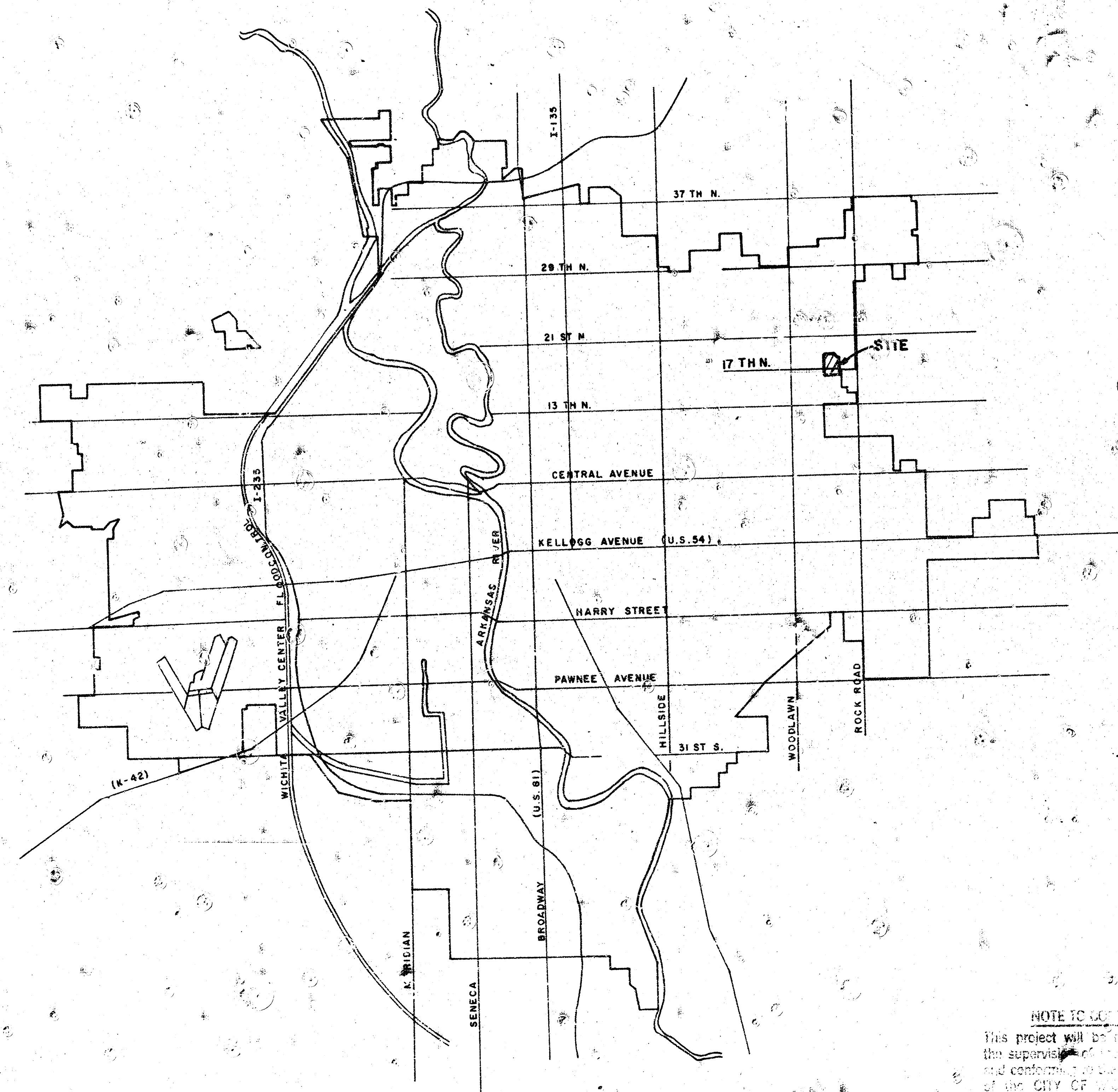


CITY OF WICHITA  
DEPARTMENT OF PUBLIC WORKS  
**17TH STREET NORTH AND WINSTEAD**  
From W. 15th St. to 1st Addition to SL Rockhill  
**WINSTEAD COURT**  
From WL Winstead to and including Cul-De-Sac  
PROJECT NO. 472-76-245-80844-000-000-001  
ACTING CITY ENGINEER - DEAN SELLERS.



INDEX TO DRAWINGS

1. Title Sheet
2. Layout Map
3. 17th Street North
4. Winstead
5. Winstead And Winstead Court
6. Paving Detail, 35' AC
7. Paving Detail, 29' AC Offset Crown
8. Type I A Curb Inlet Detail
9. X-Sections 17th St. No. and Winstead
10. X-Sections Winstead and Winstead Ct.

NOTE TO CONTRACTOR

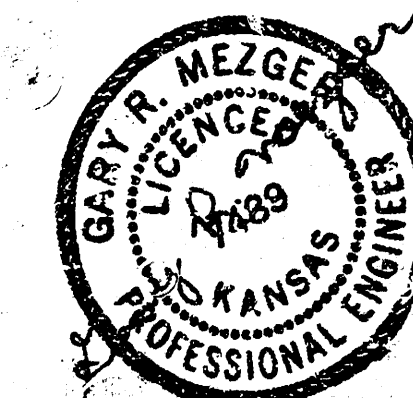
This project will be constructed under the supervision of the City Engineer of the City of Wichita, Kansas, and conform to the specifications of the City of Wichita, Kansas.

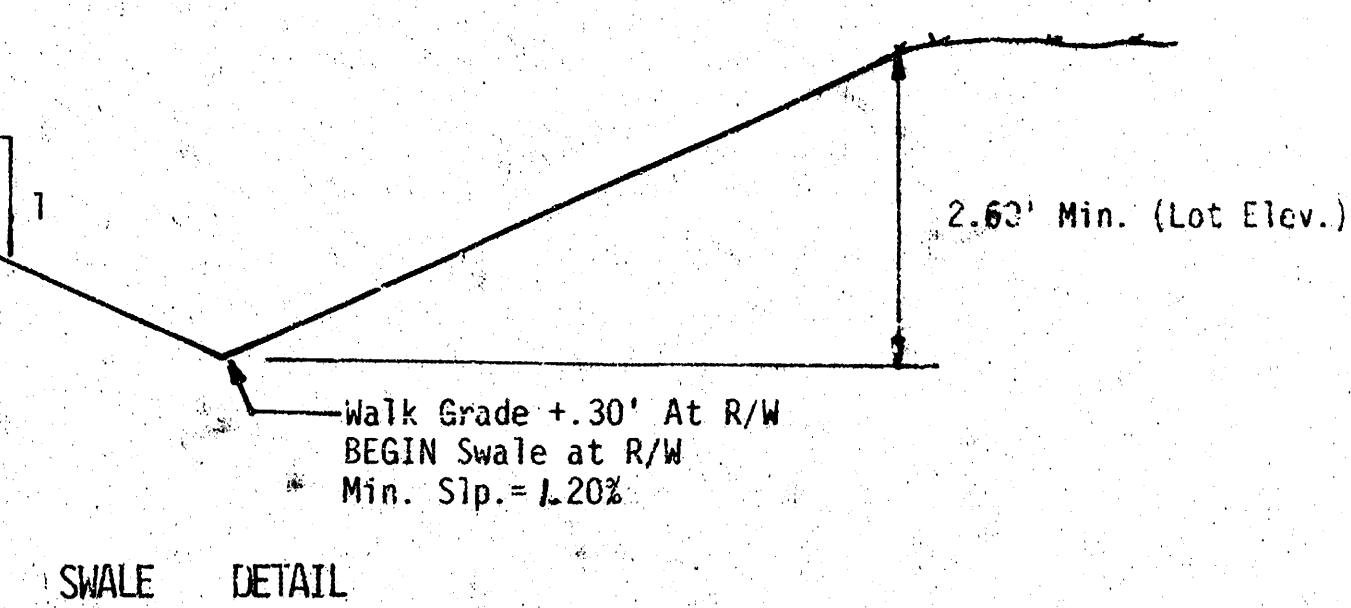
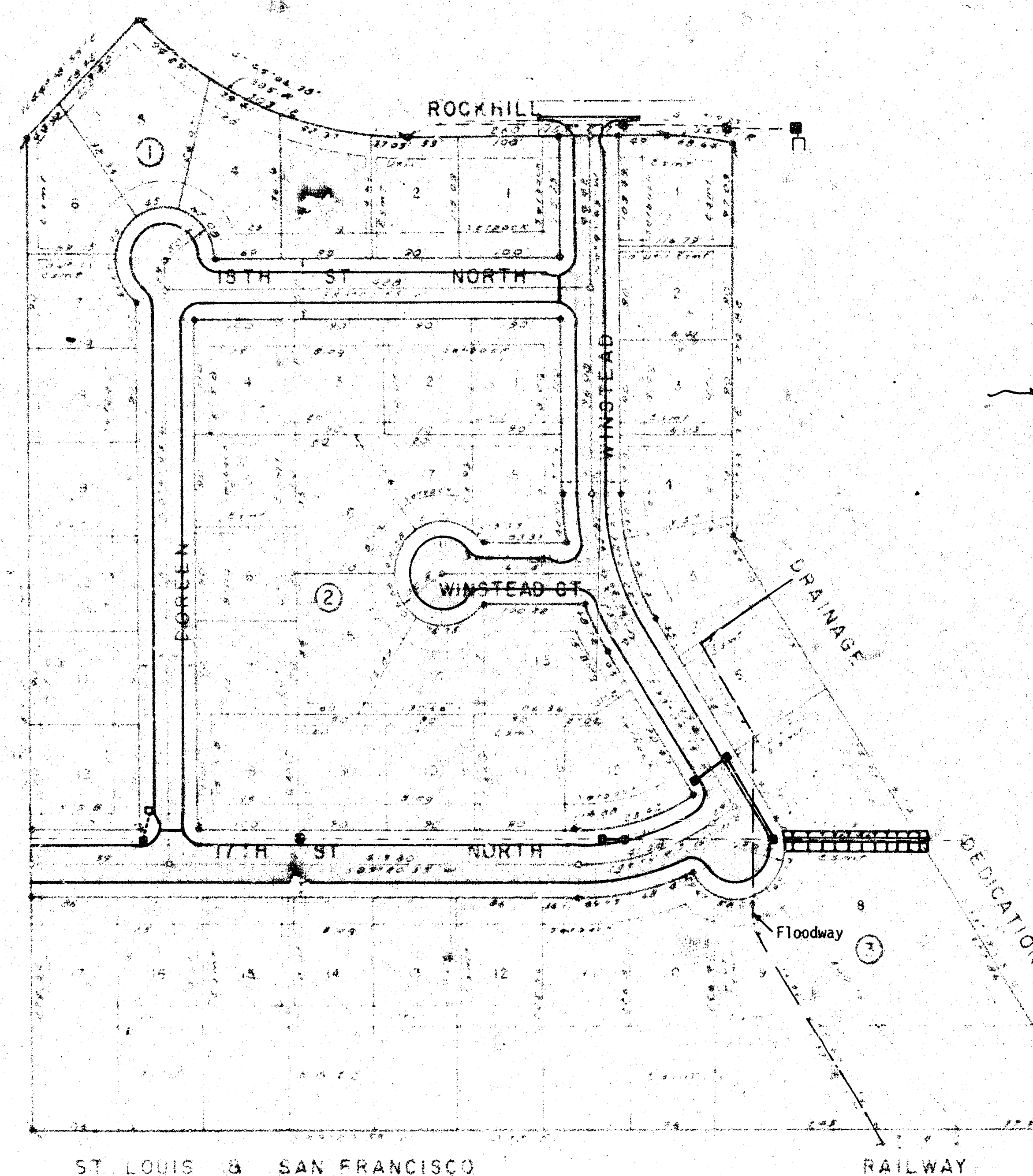
APPROVED AS NOTED  
By CITY ENGINEER OF WICHITA

Paving: *the City* Date: 2/13/20  
Drainage: *the City* Date: 1/24/20



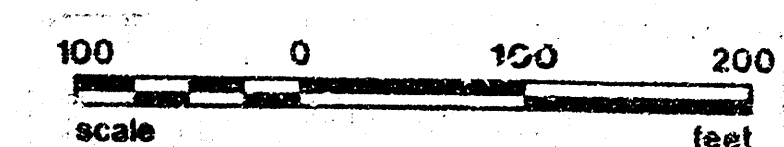
**POE & ASSOCIATES OF KANSAS, INC.**  
CONSULTING ENGINEERS



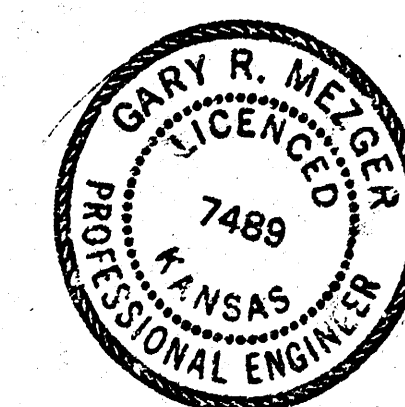


GENERAL NOTES:

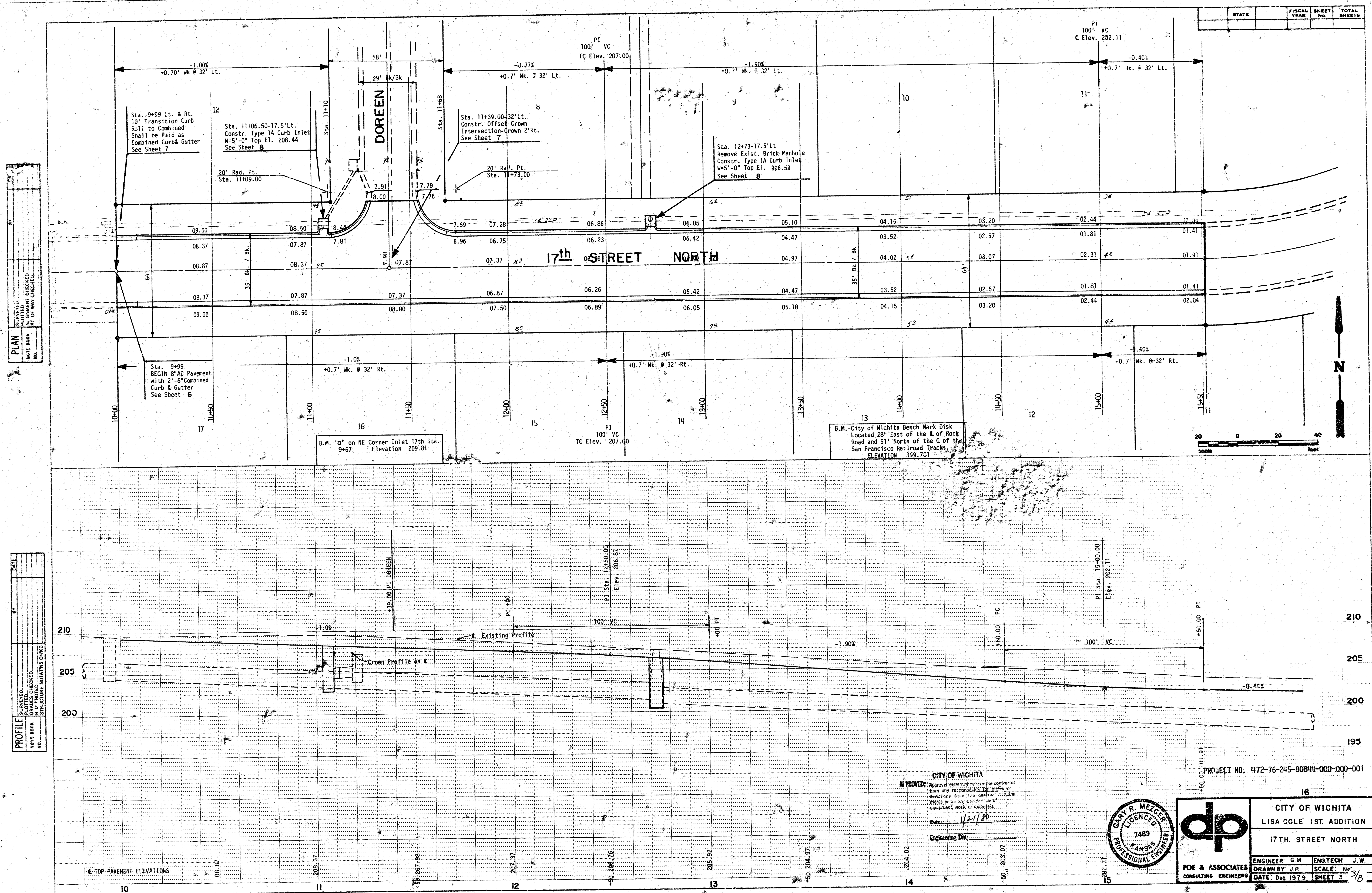
1. All radius dimensions are to face of curb.
2. Spot Elevations are top of curb, gutter line of curb, and Crown of Pavement.
3. Spot Elevations on Intersections and Cul-De-Sacs are 1/4 Points, Reverse Curves, and Return Points.
4. All metal pipe shall be helically corrugated pipes fully coated inside and outside. The coating may be bituminous or polymeric as specified in AASHTO Designation M246-78, Type B. All such coated corrugated pipes shall be smooth flow pipes for sizes 24" diameter or larger. All connections for these fully paved and/or fully coated pipes shall be fairly watertight constructed using hugger type coupling or equal.
5. Contractor shall have the option of installing pre-cast type 1A curb inlet in lieu of the brick type structure. See standard detail "Pre-cast Type 1A Curb Inlet" dated Aug. 1979.
6. All Excess excavated material shall be stored on site at the direction of the owner. Under NO circumstances shall excavated material be placed within the "floodway".



PROJECT NO. 472-76-245-80844-000-036-001

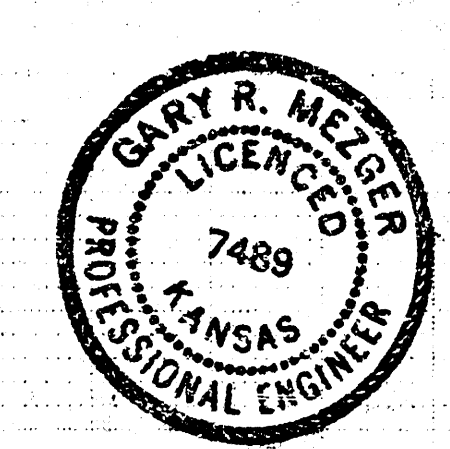
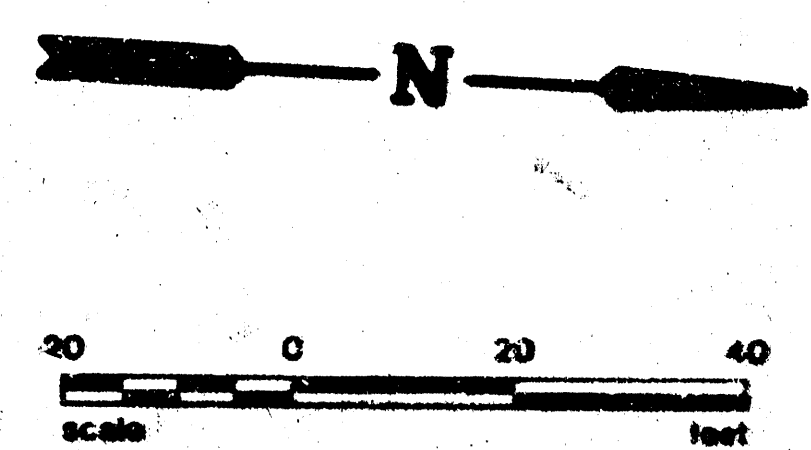
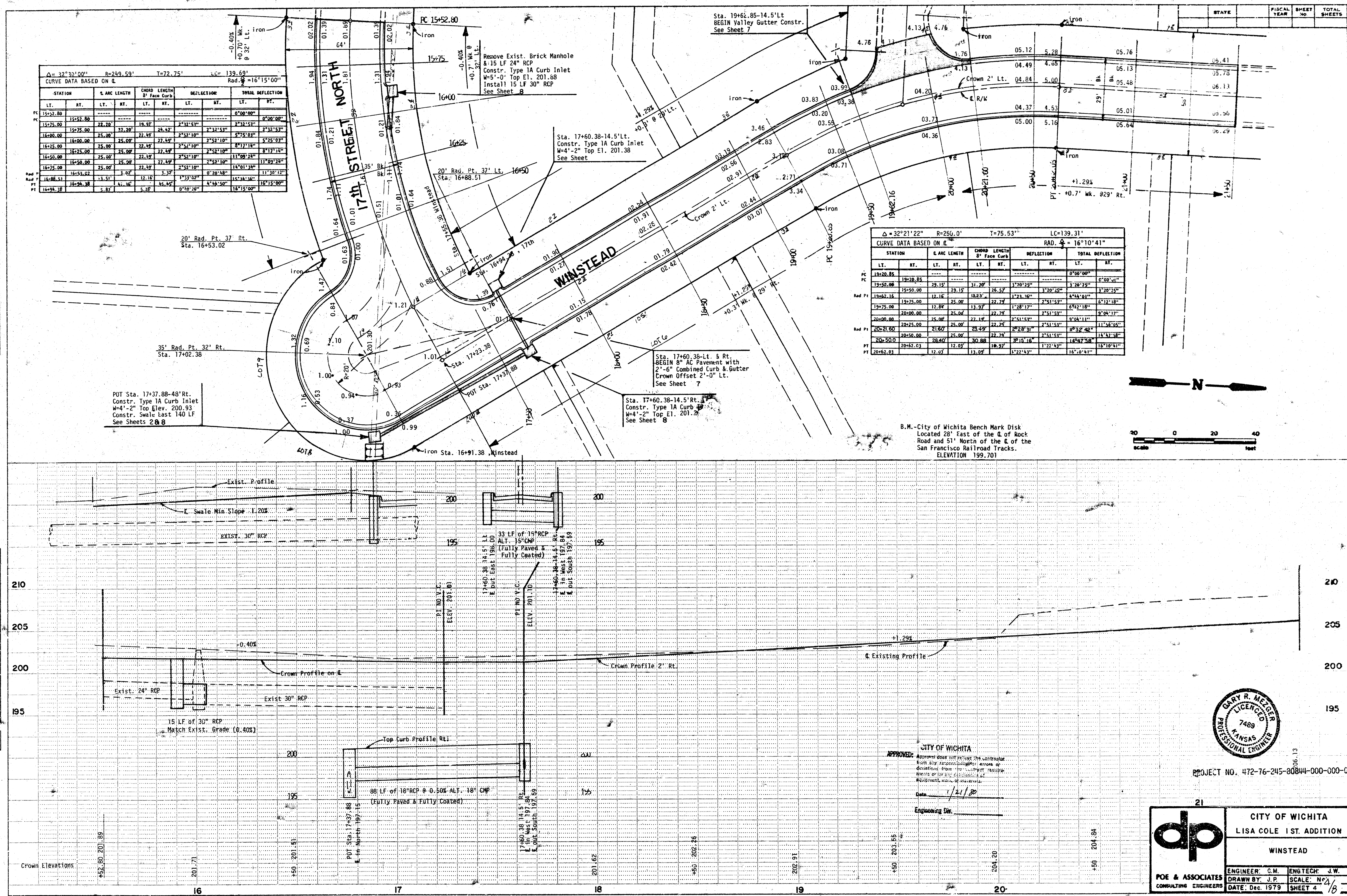


|                 |                         |  |
|-----------------|-------------------------|--|
|                 | CITY OF WICHITA         |  |
|                 | LISA COLE 1ST. ADDITION |  |
|                 | LAYOUT MAP              |  |
| ENGINEER: G.M.  | CHECKED BY: J.W.        |  |
| DRAWN BY: J.W.  | SCALE: Noted            |  |
| DATE: Dec. 1979 | SHEET: 2 OF 10          |  |



|         |      |
|---------|------|
| PLAN    | DATE |
| BY      |      |
| CHECKED |      |
| NOTED   |      |
| DATE    |      |

|         |      |
|---------|------|
| PROFILE | DATE |
| BY      |      |
| CHECKED |      |
| NOTED   |      |
| DATE    |      |

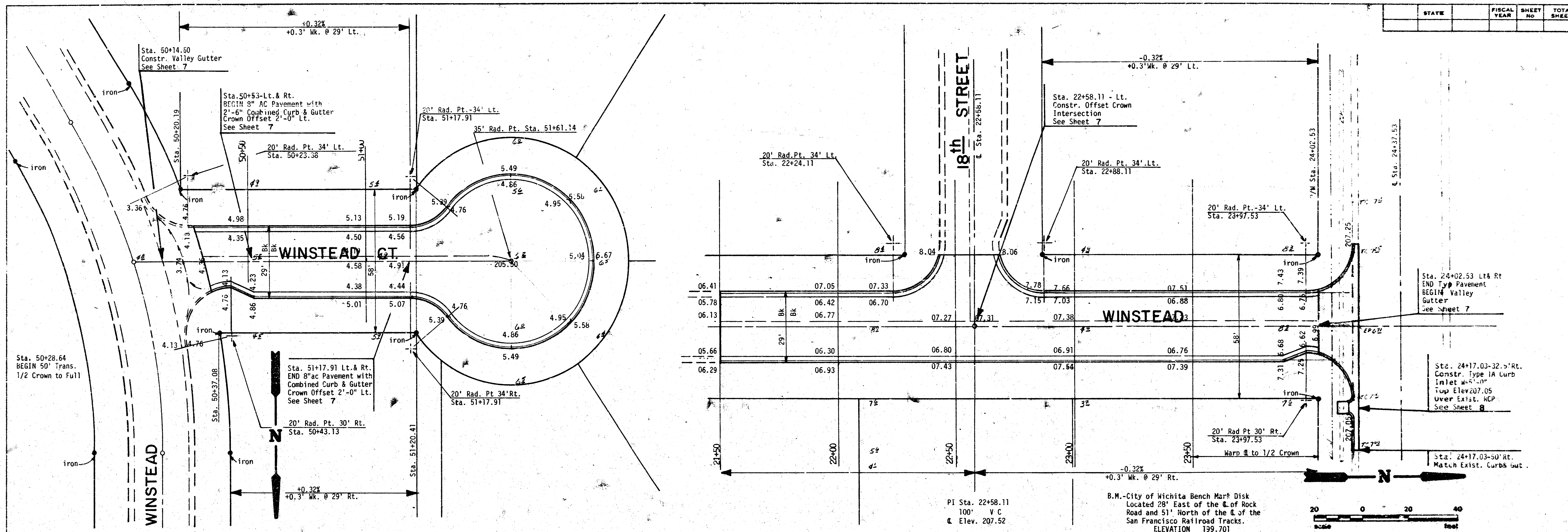


APPROVED: CITY OF WICHITA  
 Approved: \_\_\_\_\_  
 Date: 1/21/80  
 Engineering Dir.

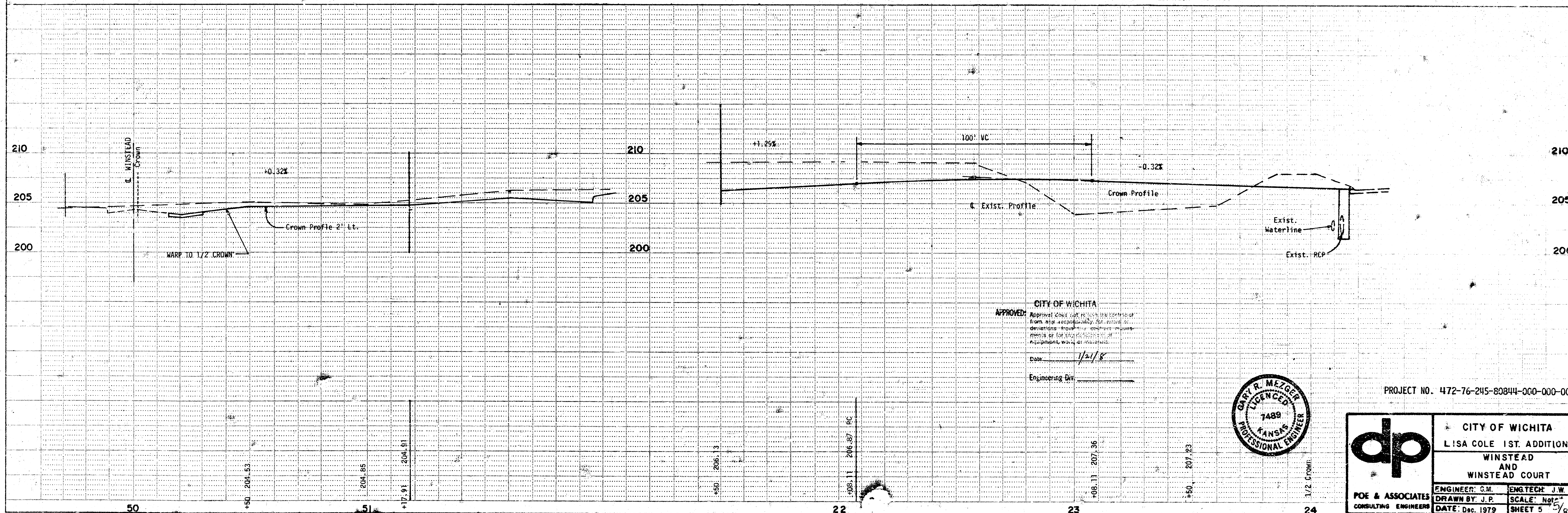
PROJECT NO. 472-76-245-30844-000-001

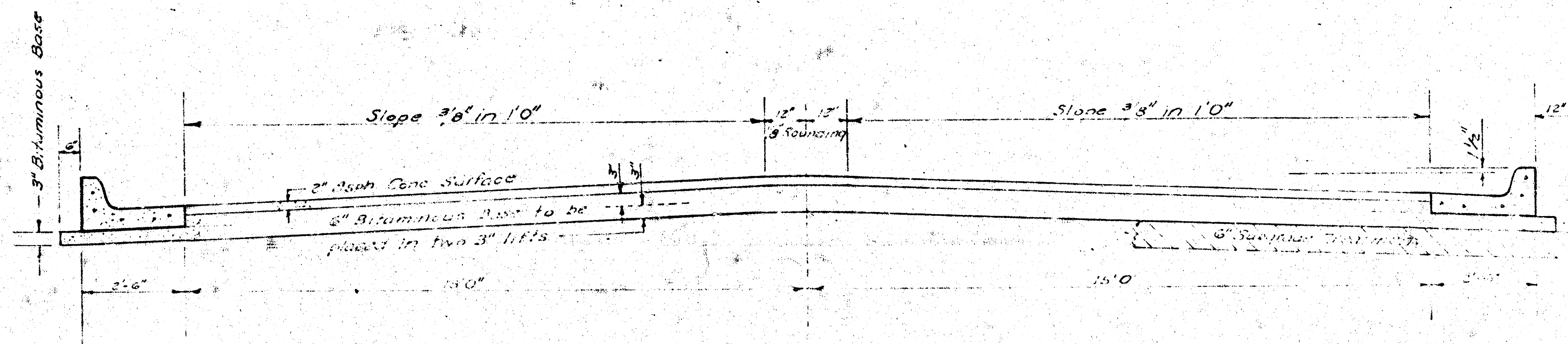
|                      |                          |               |
|----------------------|--------------------------|---------------|
|                      | CITY OF WICHITA          |               |
|                      | LISA COLE 1 ST. ADDITION |               |
|                      | WINSTEAD                 |               |
|                      | ENGINEER: G.M.           | ENGTECH: J.W. |
| POE & ASSOCIATES     | DRAWN BY: J.P.           | SCALE: N/A    |
| CONSULTING ENGINEERS | DATE: Dec. 1979          | SHEET 4/8     |

| PLAN | SURVEYED | BY | DATE |
|------|----------|----|------|
|      | PLOTTED  |    |      |
|      | CHECKED  |    |      |
|      | NOTED    |    |      |
|      | NO.      |    |      |



| PROFILE | SURVEYED | BY | DATE |
|---------|----------|----|------|
|         | PLOTTED  |    |      |
|         | CHECKED  |    |      |
|         | NOTED    |    |      |
|         | NO.      |    |      |





Note: TYPE OF SUBGRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUBGRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUBGRADE MODIFICATION, OR ANY COMBINATION OF THESE.

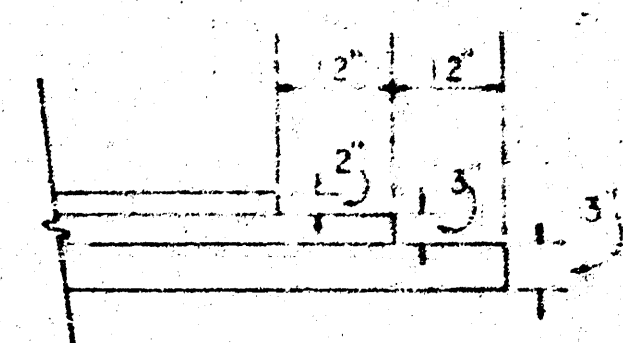
## TYPICAL SECTION

### 35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

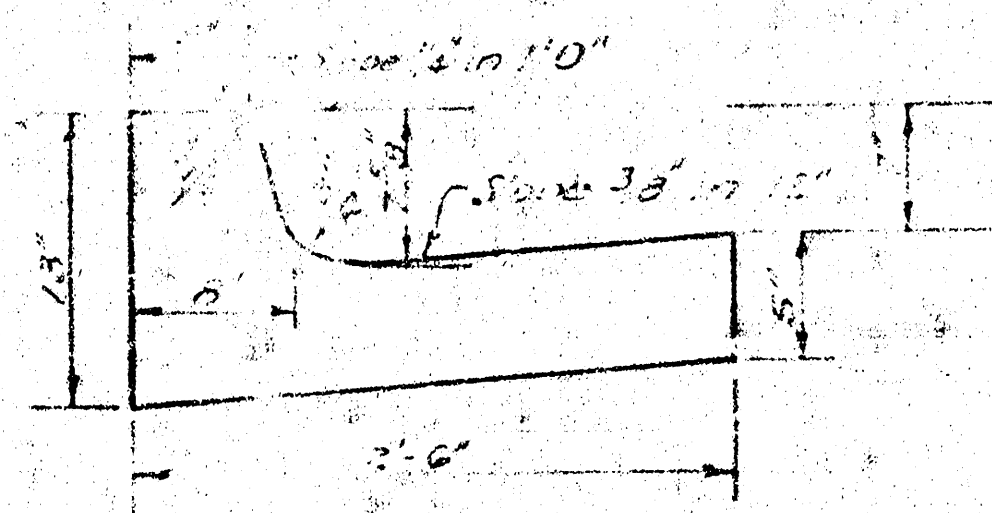
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC ELECTRONIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

### DETAIL OF TRANSVERSE CONSTRUCTION JOINTS

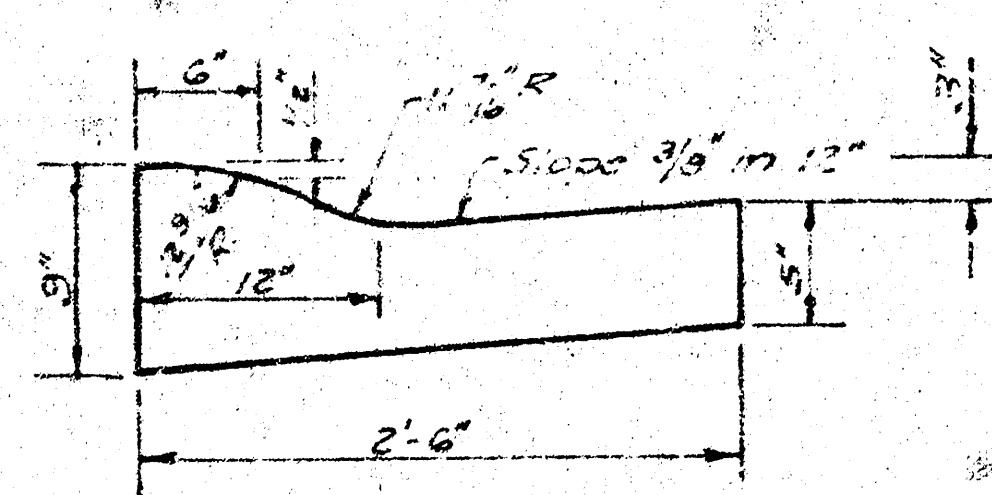


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE PAVEMENT.

### CO. MILD CURB & GUTTER



### ROLL TYPE CURB & GUTTER



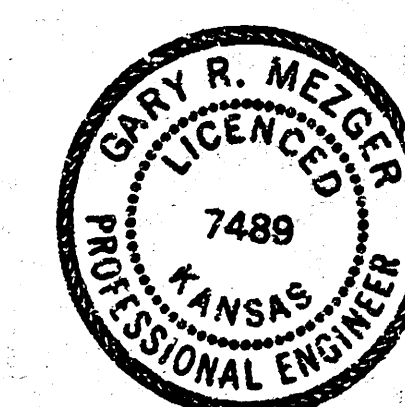
The 3' Bituminous Base under the curb and gutter shall be paid as Bituminous Base. The Bituminous Base under the curb and gutter shall be paid as Bituminous Base.

## CITY OF WICHITA KANSAS

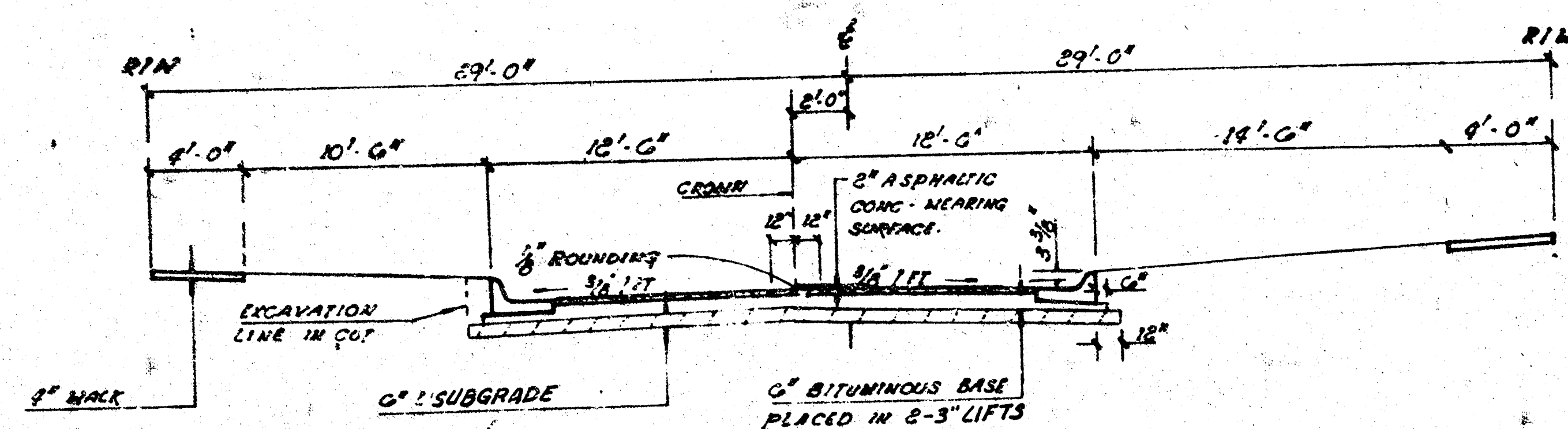
DEPARTMENT of PUBLIC WORKS - Engineering Division.

DEAN SELLERS ACTING CITY ENGINEER

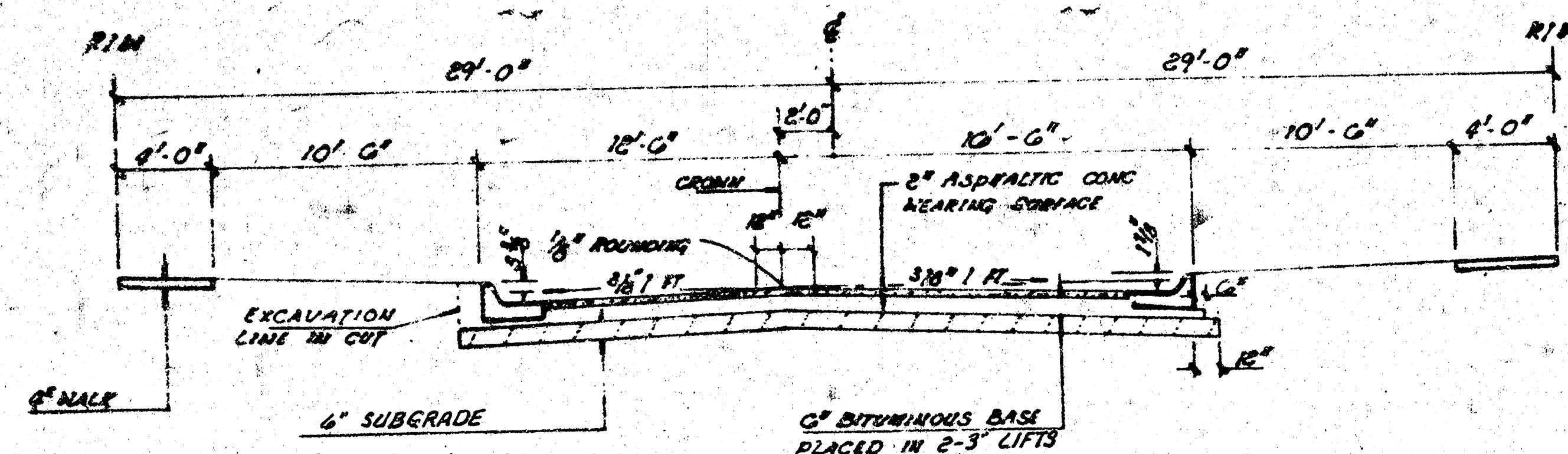
DATE \_\_\_\_\_ Proj No. \_\_\_\_\_



PROJECT NO. 472-76-245-80844-000-000-001



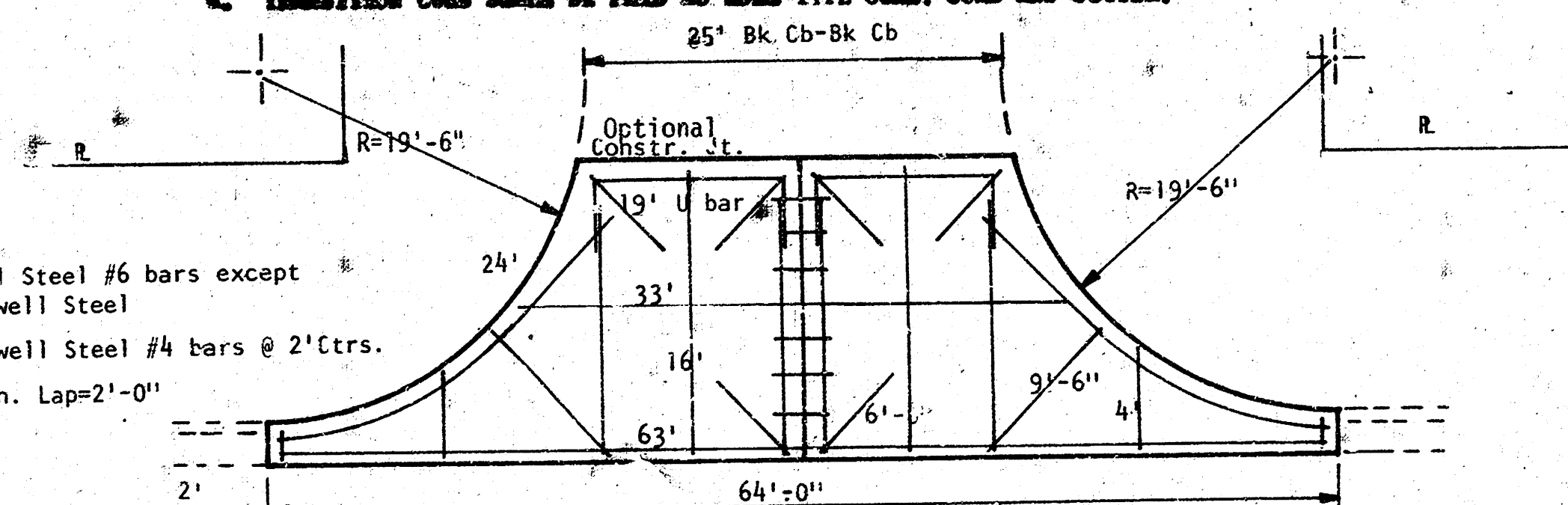
TYPICAL 25' B-B SECTION



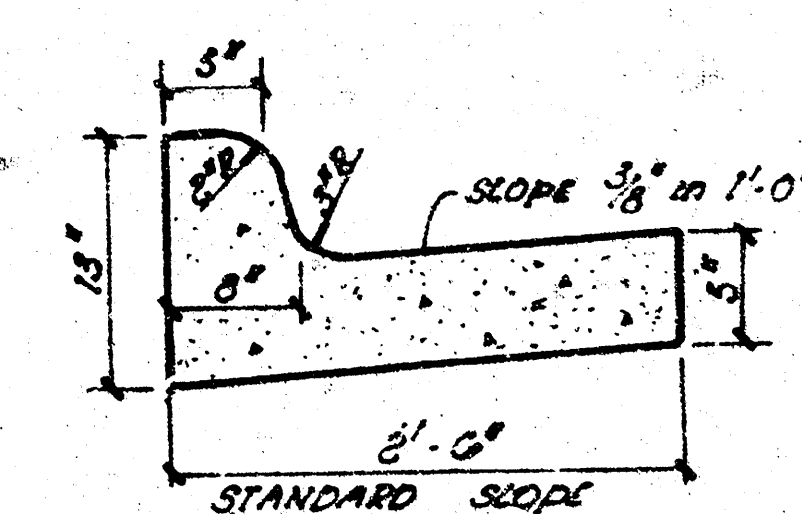
TYPICAL 29' B-B SECTION  
W/ PARKING ON ONE SIDE

NOTE: TYPE OF SUBGRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUBGRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUBGRADE MODIFICATION, OR ANY COMBINATION OF THESE.

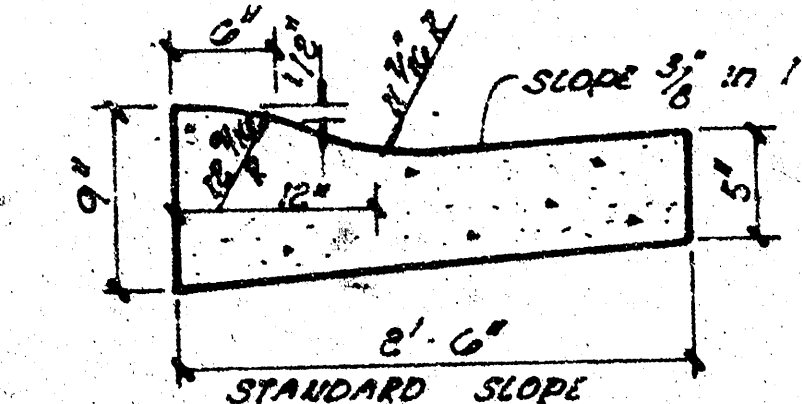
NOTE: All Steel #6 bars except Dowell Steel #4 bars @ 2' ctrs. Min. Lap=2'-0"



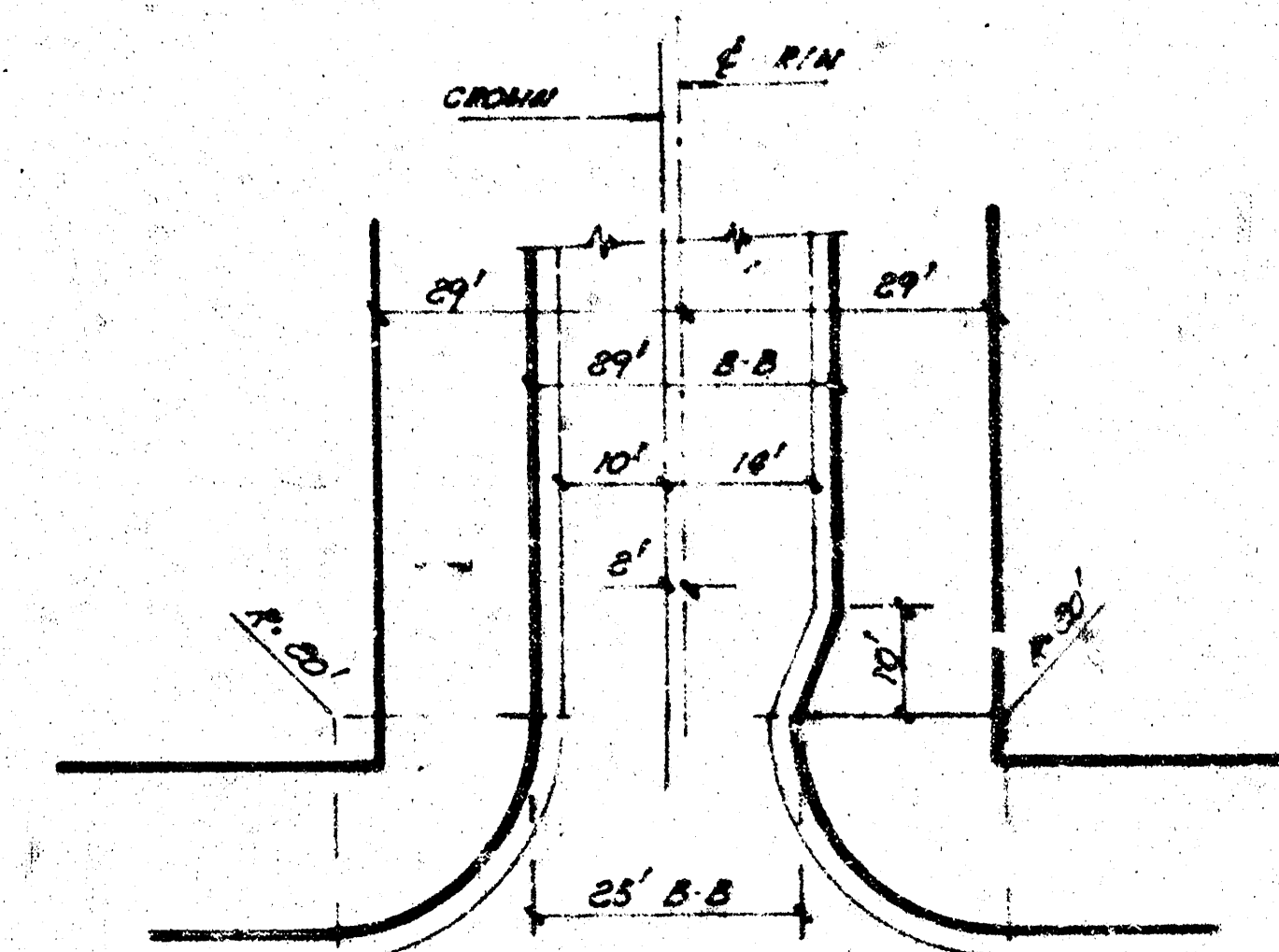
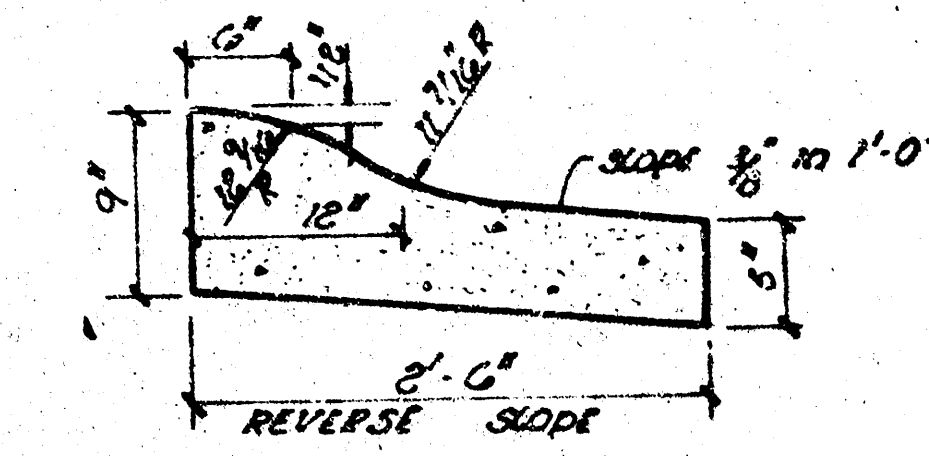
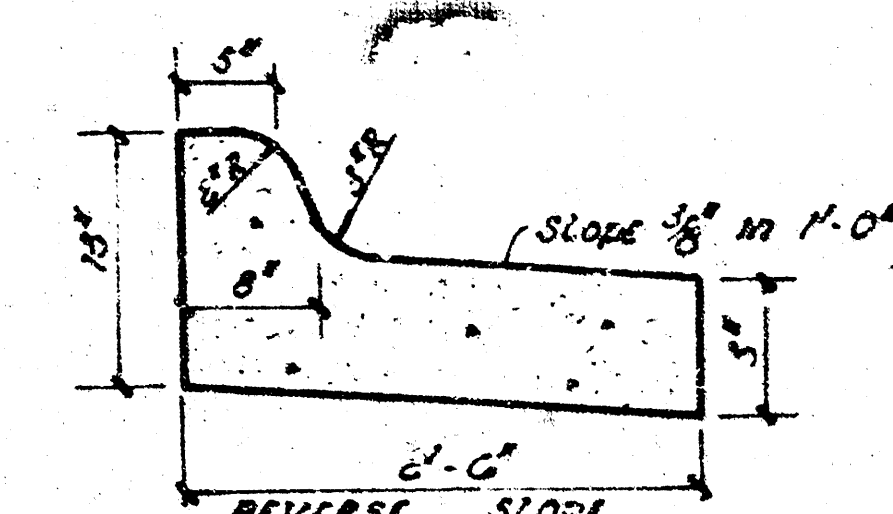
CONCRETE VALLEY CUTTER



COMBINED CURB & GUTTER



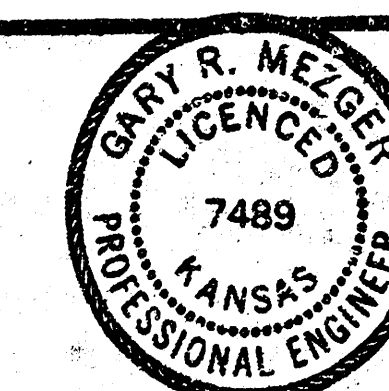
ROLL TYPE CURB & GUTTER



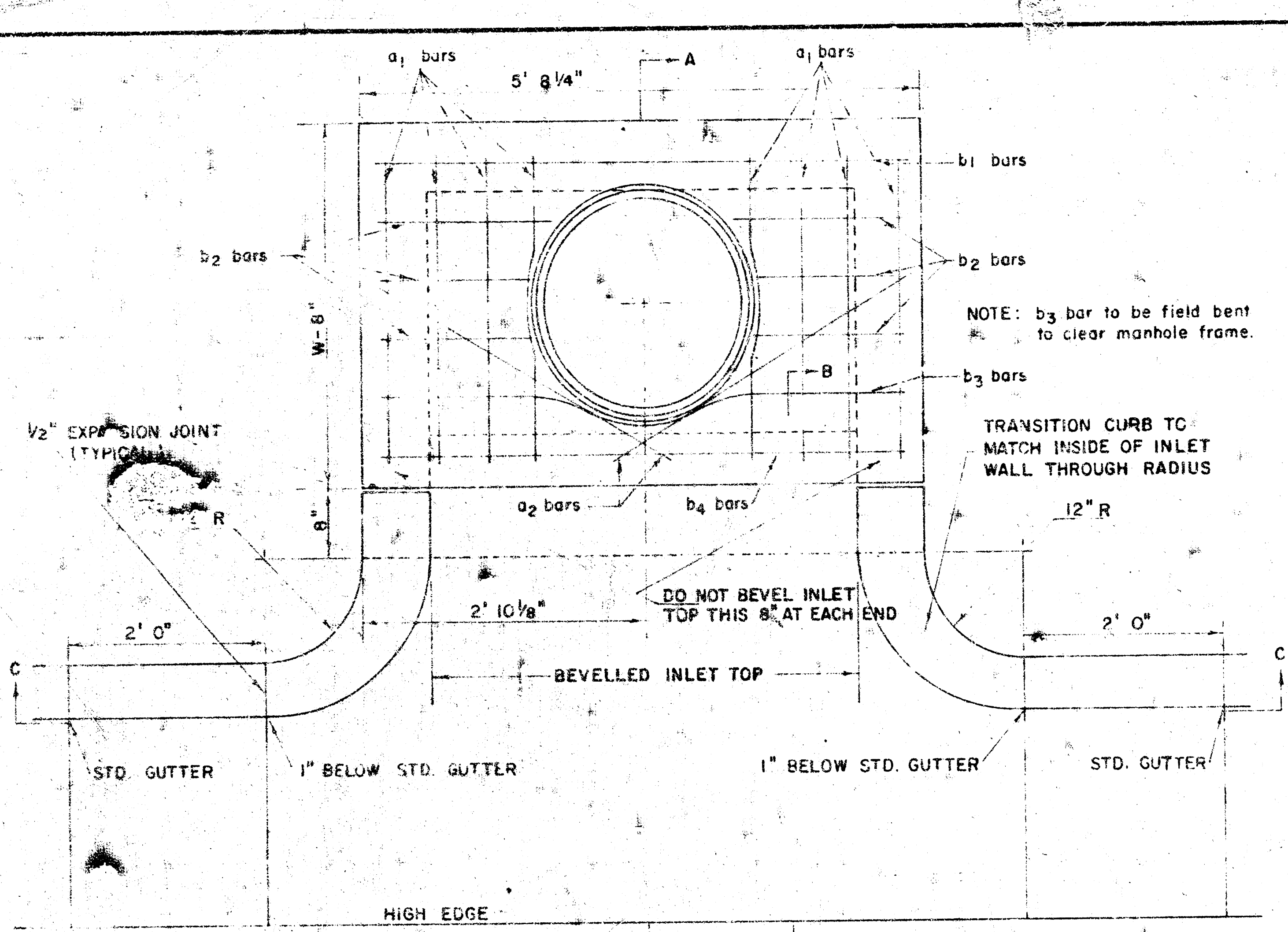
PLAN VIEW (TYPICAL)

- GENERAL NOTE
1. A THICK COAT OF IMPROVED ASPHALT (54 - 10) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQUARE YARD. THICKNESS OF ASPHALT LAYERS SHALL BE DETERMINED BY THE ENGINEER. THICK COAT SHALL NOT BE PAID FOR. THICKNESS SHALL BE CONSIDERED AS EQUIVALENT TO PRICE BID FOR ASPHALTIC PAVEMENT.
  2. THE 4" A.C. PAVEMENT BETWEEN COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS 8" A.C. PAVEMENT (6" MINIMUM BASE). THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS 2" BITUMINOUS BASE.
  3. SIDEWALKS INDICATED ON THE TYPICAL SECTION ARE FOR LOCATION ON THAT SECTION. SIDEWALKS SHALL NOT BE CONSTRUCTED ON THIS PROJECT.
  4. CONSTRUCTION JOINTS MAY BE CONSTRUCTED IN EXTERNAL CURB BY SAWING WITH AN APPROVED CONCRETE SAW. THE SAW SHALL EXTEND THROUGH THE CURB TO THE SUBGRADE. SAWED CONSTRUCTION JOINTS SHALL HAVE A MAXIMUM SPACING OF 10'.
  5. EXTERNAL CURB SHALL BE TIED TO THE SUBGRADE WITH SHORT DEFORMED BARS SPACED AT 2' - 0" INTERVALS. THESE BARS SHALL NOT BE LESS THAN 1/2" OR MORE THAN 3/4" IN DIAMETER.
  6. TRANSITION CURB SHALL BE PAID AS ROLL-TYPE CURB, CURB AND GUTTER.

CITY OF WICHITA, KANSAS  
DEPARTMENT OF PUBLIC WORKS - ENGINEERING  
DEAN SELLERS ACTING CITY ENGINEER  
DATE: \_\_\_\_\_ PROJ. NO. \_\_\_\_\_



PROJECT NO. 472-76-245-80844-000-000-001



PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE

| BAR    | a1    | a2   | b1   | b2   | b3 | b4 | WT. LBS. |
|--------|-------|------|------|------|----|----|----------|
| NUMBER | 8     | 2    | 1    | 3    | 5  | 7  |          |
| SIZE   | #4    | #4   | #4   | #4   | #4 | #4 |          |
| W=4'2" | 6'5"  | 5'4" | 5'5" | -    | -  | -  | 60*      |
| W=5'0" | 8'1"  | 4'4" | -    | 5'5" | -  | -  | 77*      |
| W=6'0" | 10'1" | 5'4" | -    | 5'5" | -  | -  | 97*      |
| W=7'0" | 11'1" | 6'4" | -    | 5'5" | -  | -  | 111*     |
| W=8'0" | 12'1" | 7'4" | -    | 5'5" | -  | -  | 124*     |

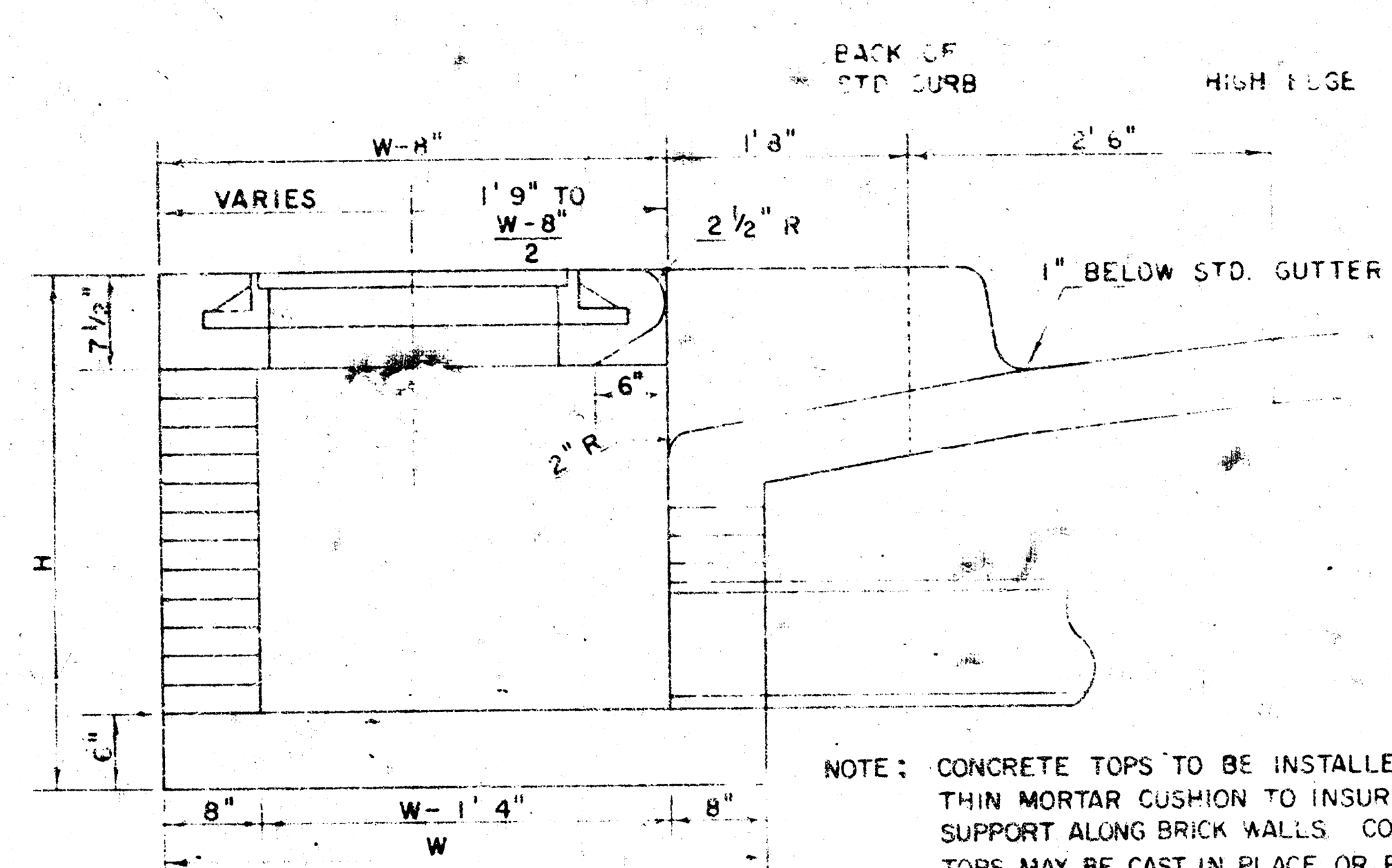
\* NOTE: a2 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

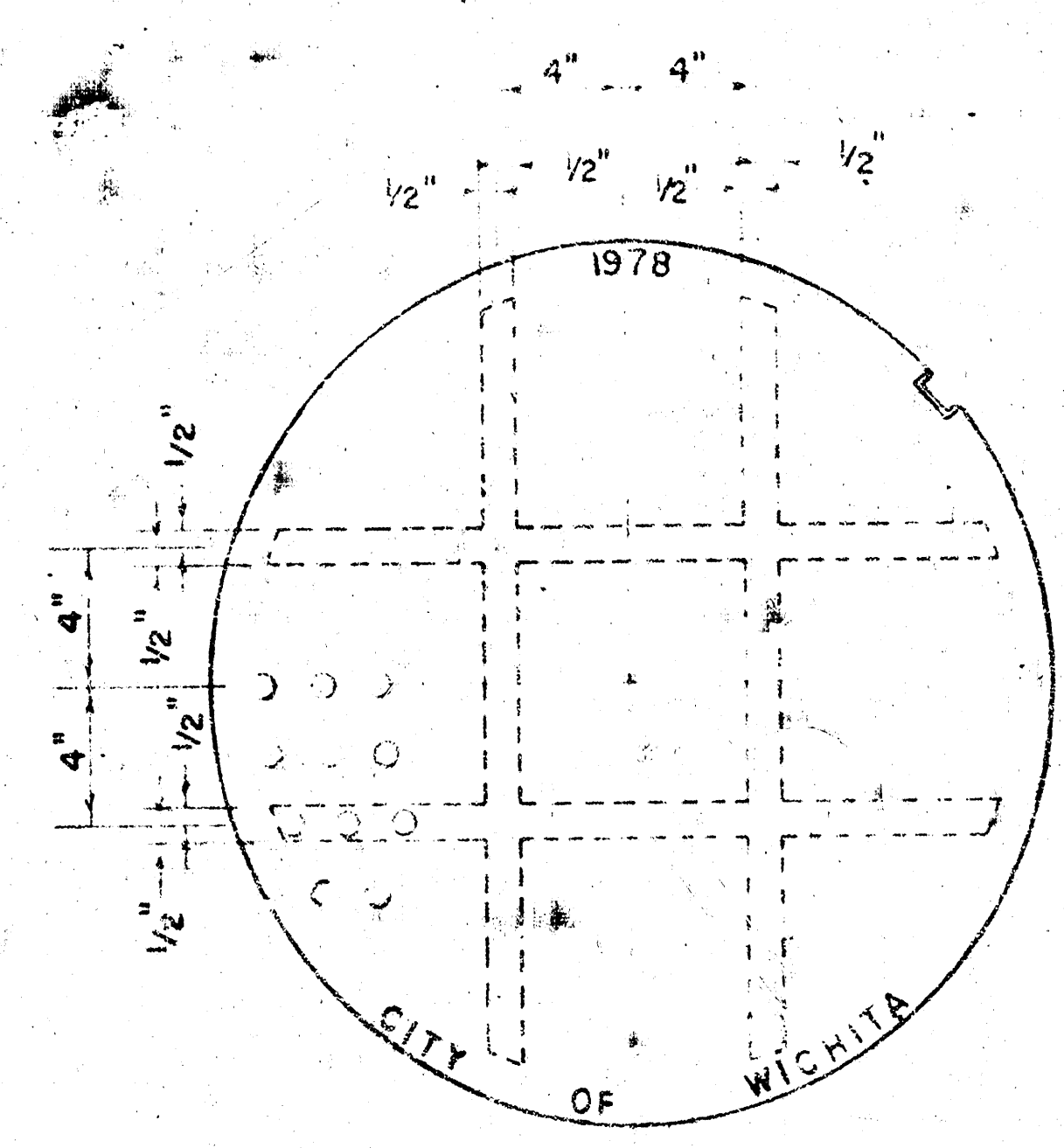
STANDARD CURB INLET PRECAST TOPS

| W     | PRECAST TOP SIZE         | PIPE SIZE     | CU. YD. CONC. |
|-------|--------------------------|---------------|---------------|
| 4' 2" | 36" x 5' 8 1/4" x 7 1/2" | 21" & SMALLER | 0.46 *        |
| 5' 0" | 44" x 5' 8 1/4" x 7 1/2" | 24" & 30"     | 0.57 *        |
| 6' 0" | 54" x 5' 8 1/4" x 7 1/2" | 36" & 42"     | 0.71 *        |
| 7' 0" | 64" x 5' 8 1/4" x 7 1/2" | 48" & 54"     | 0.84 *        |
| 8' 0" | 74" x 5' 8 1/4" x 7 1/2" | 60" & 66"     | 0.97 *        |

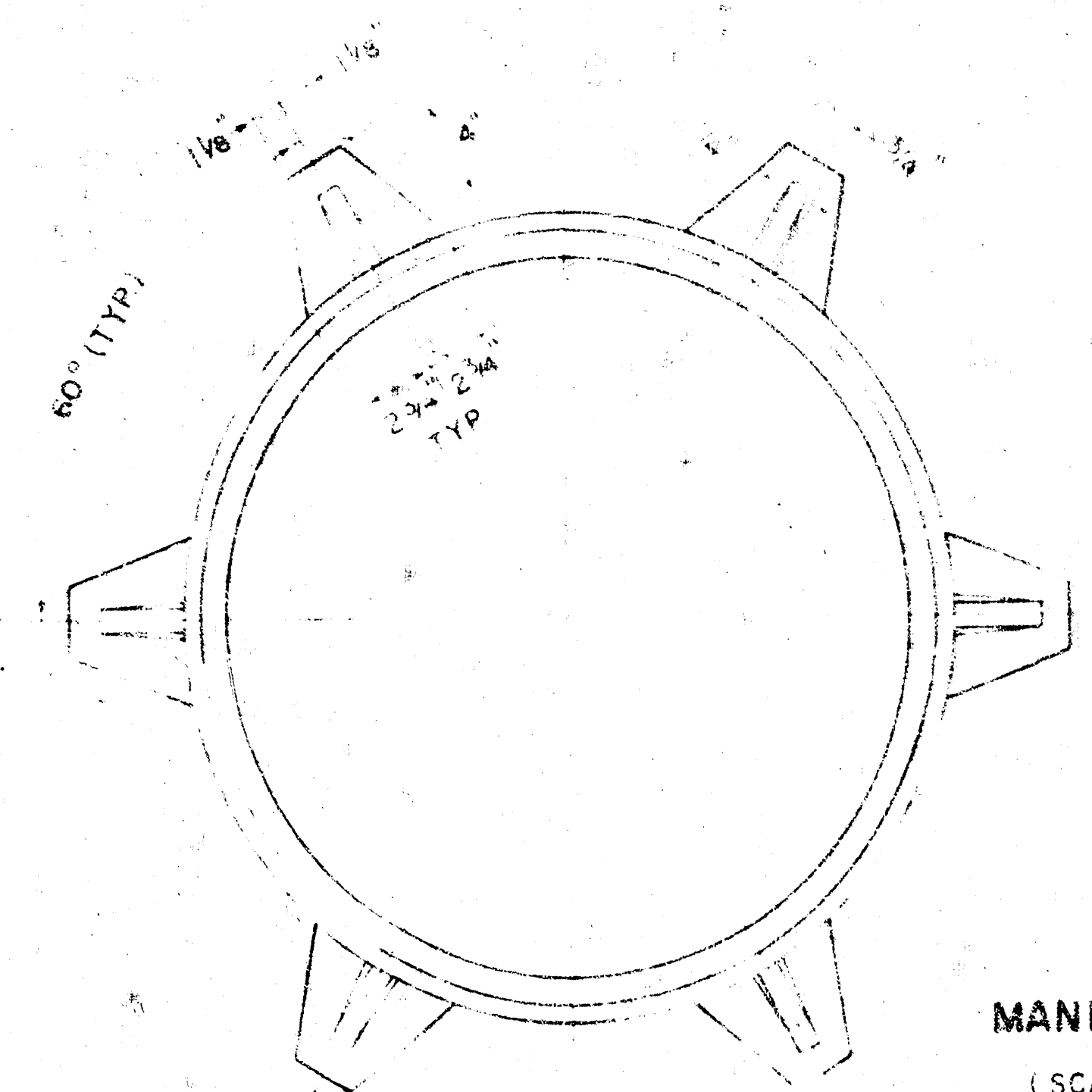
\* GROSS VOLUME



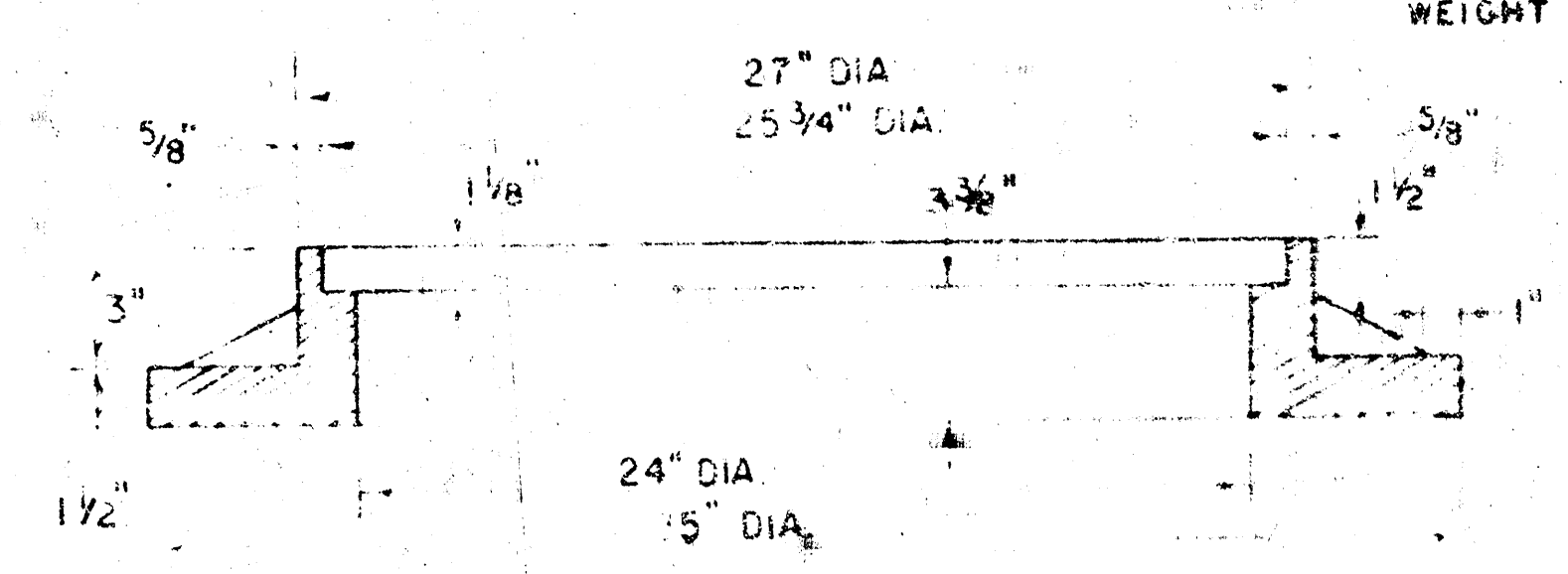
SECTION A-A (SCALE 1" = 1' 0")



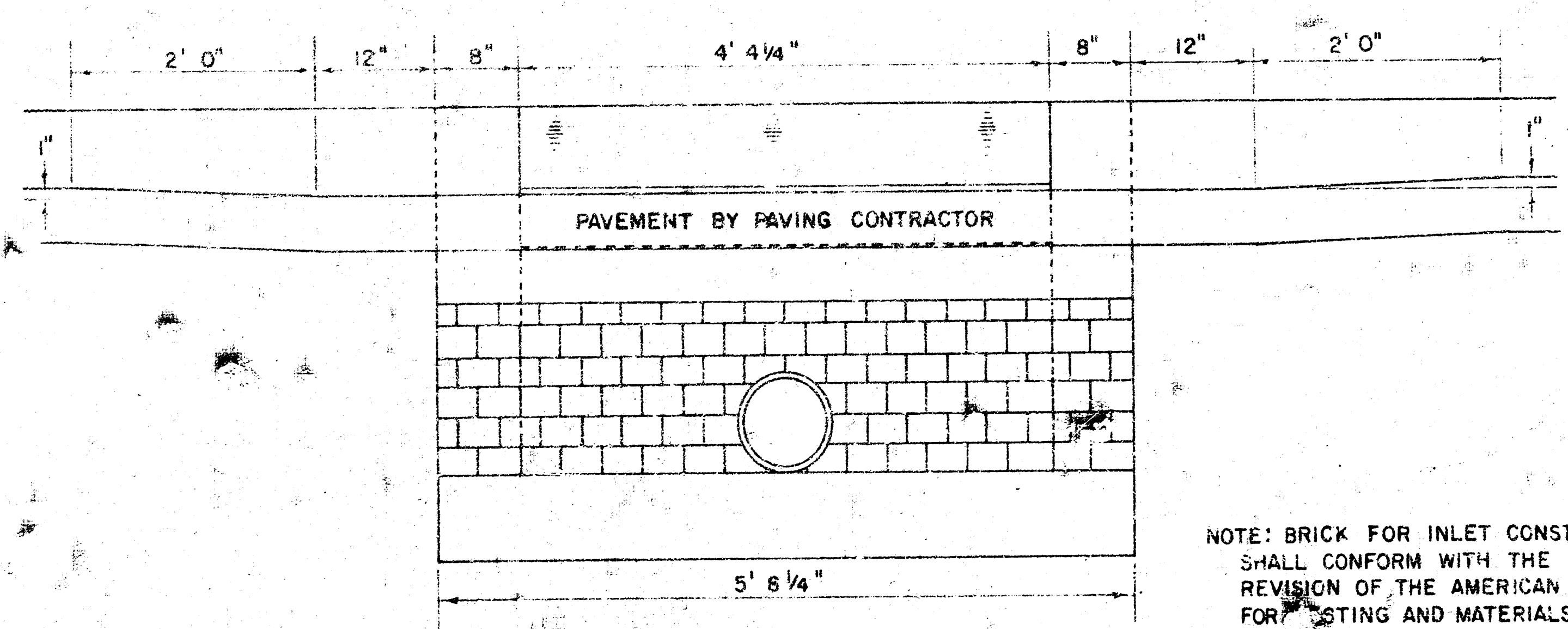
MANHOLE COVER (SCALE 1" = 6") WEIGHT = 170 LBS.



MANHOLE FRAME (SCALE 1" = 6") WEIGHT = 180 LBS.

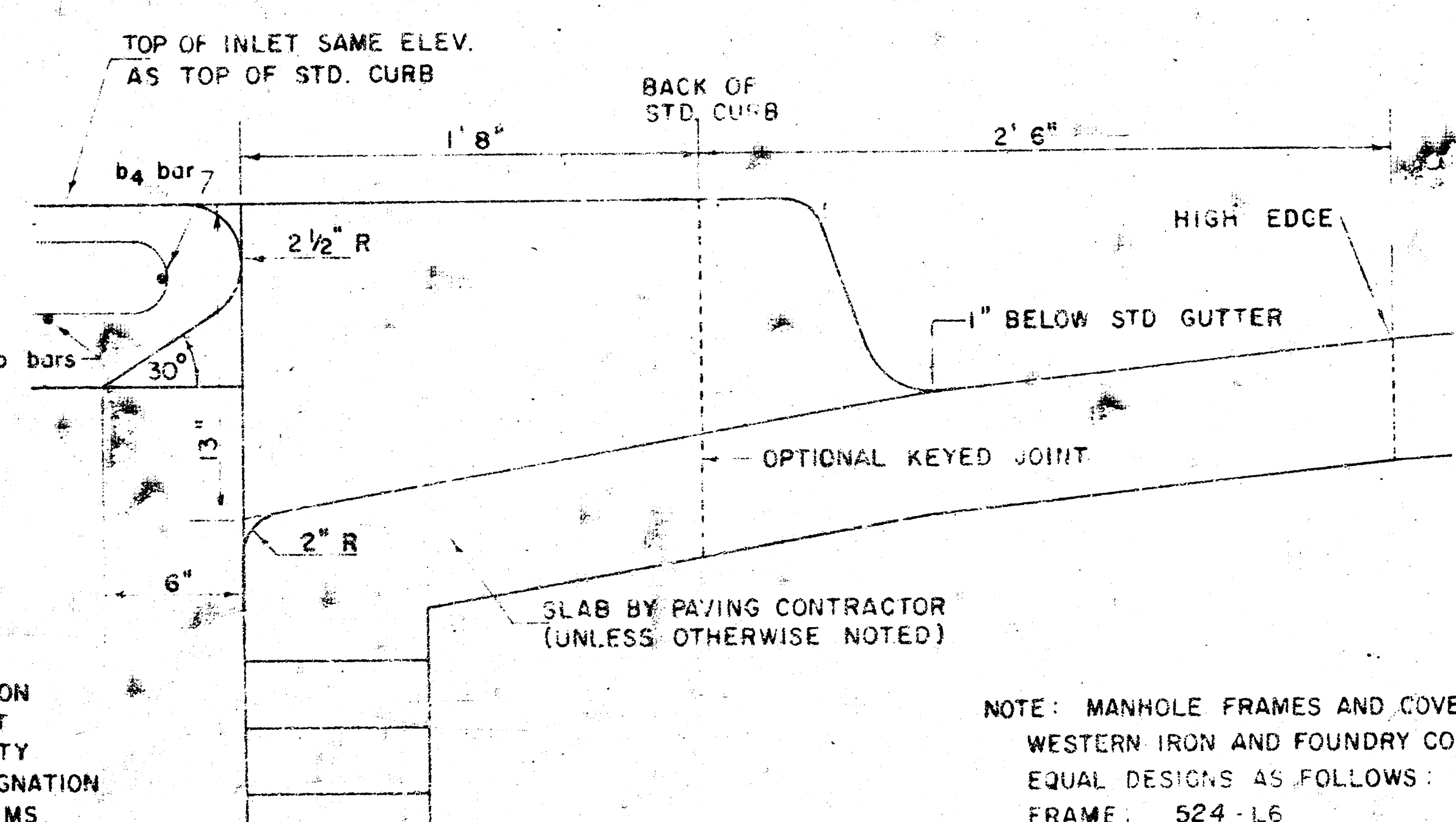


MANHOLE FRAME (ALTERNATE) (SCALE 1" = 6") WEIGHT = 180 LBS.



SECTION C-C (SCALE 1" = 1' 0")

NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.



SECTION B-B (SCALE 1" = 6")

NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL DESIGNS AS FOLLOWS:  
FRAME: 524-L6  
FRAME (ALTERNATE): 500 A4  
COVER: 222 S4 "NOBBY"

PROJECT NO. 472-76-245-80844-000-000-001

DETAIL STANDARD TYPE IA CURB INLET  
CITY OF WICHITA, KANSAS  
DEAN SELLERS - ACTING CITY ENGINEER