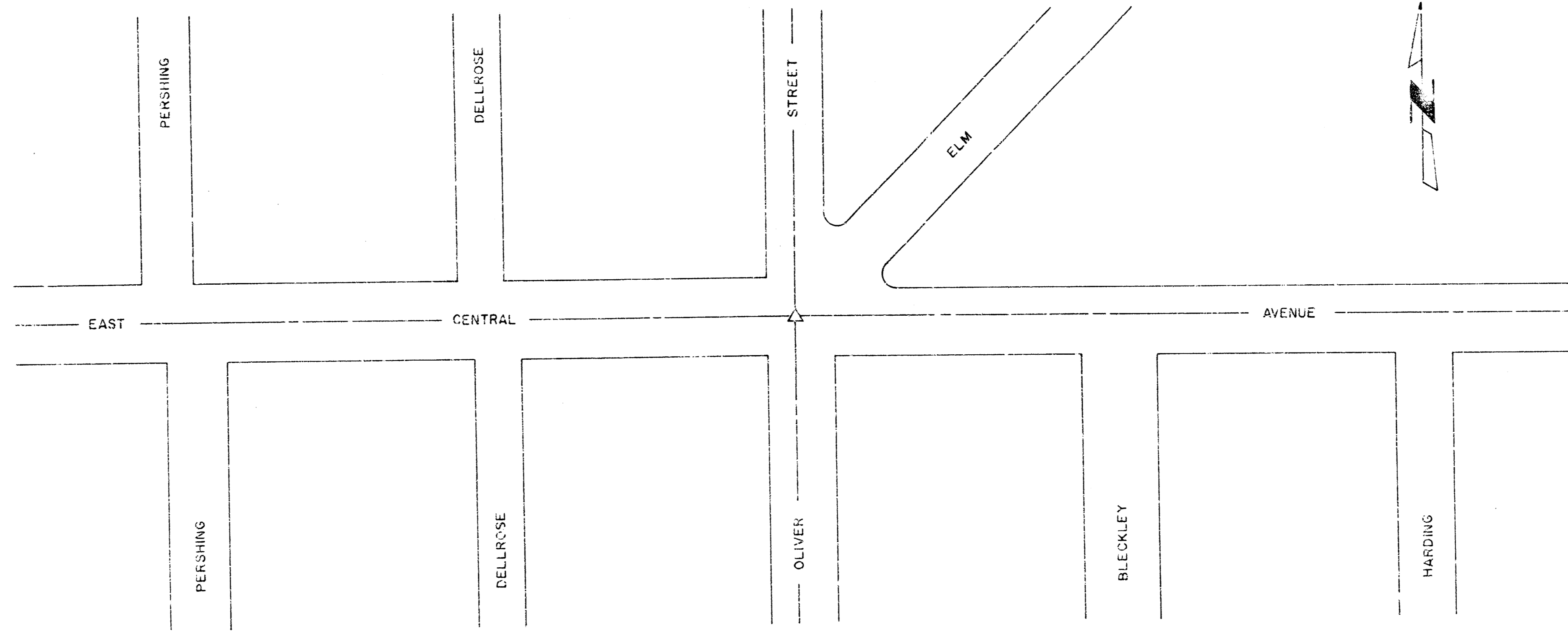


CITY OF WICHITA, KANSAS
STREET IMPROVEMENTS
(EAST CENTRAL AVENUE)

PERSHING TO 485' EAST OF OLIVER
R. W. BRUGGEMAN: DIRECTOR OF ENGINEERING / CITY ENGINEER

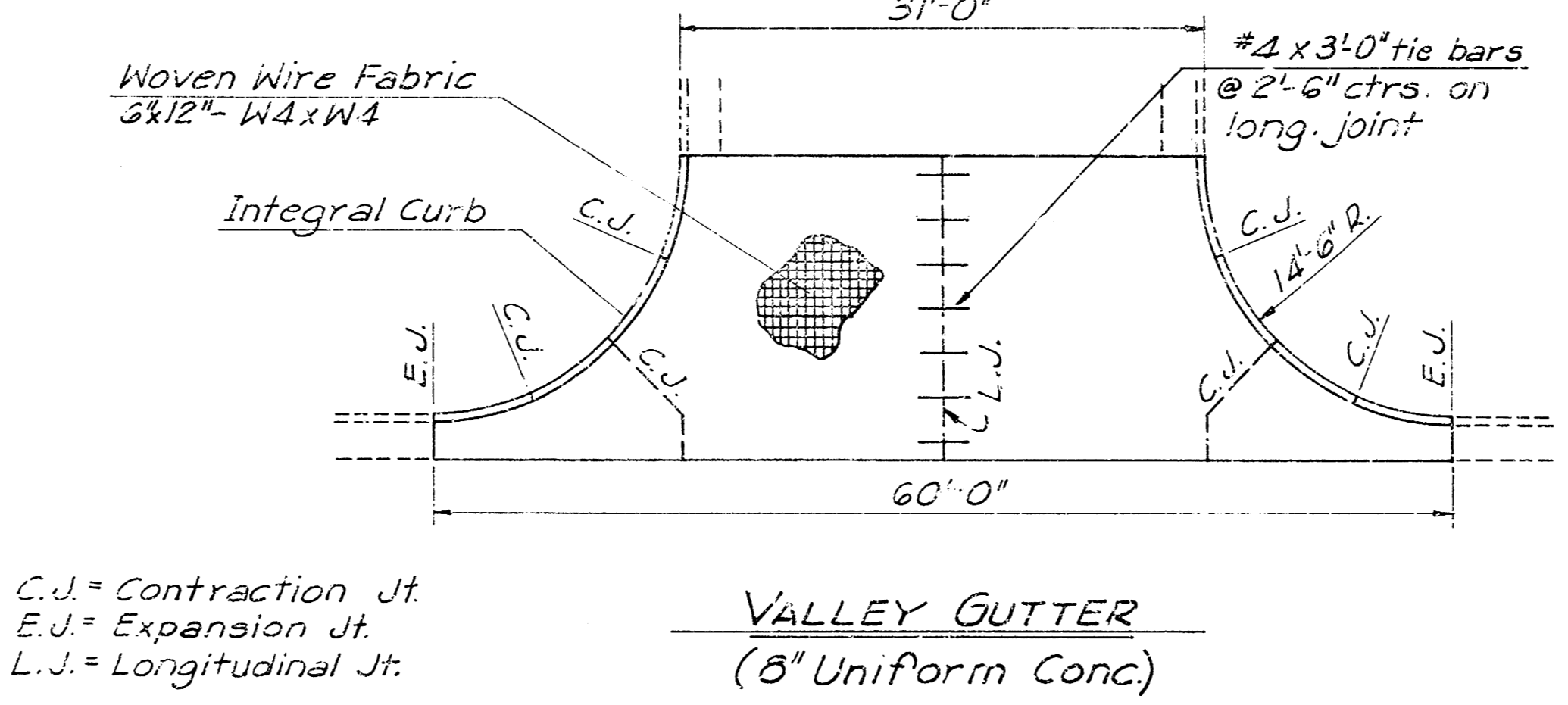
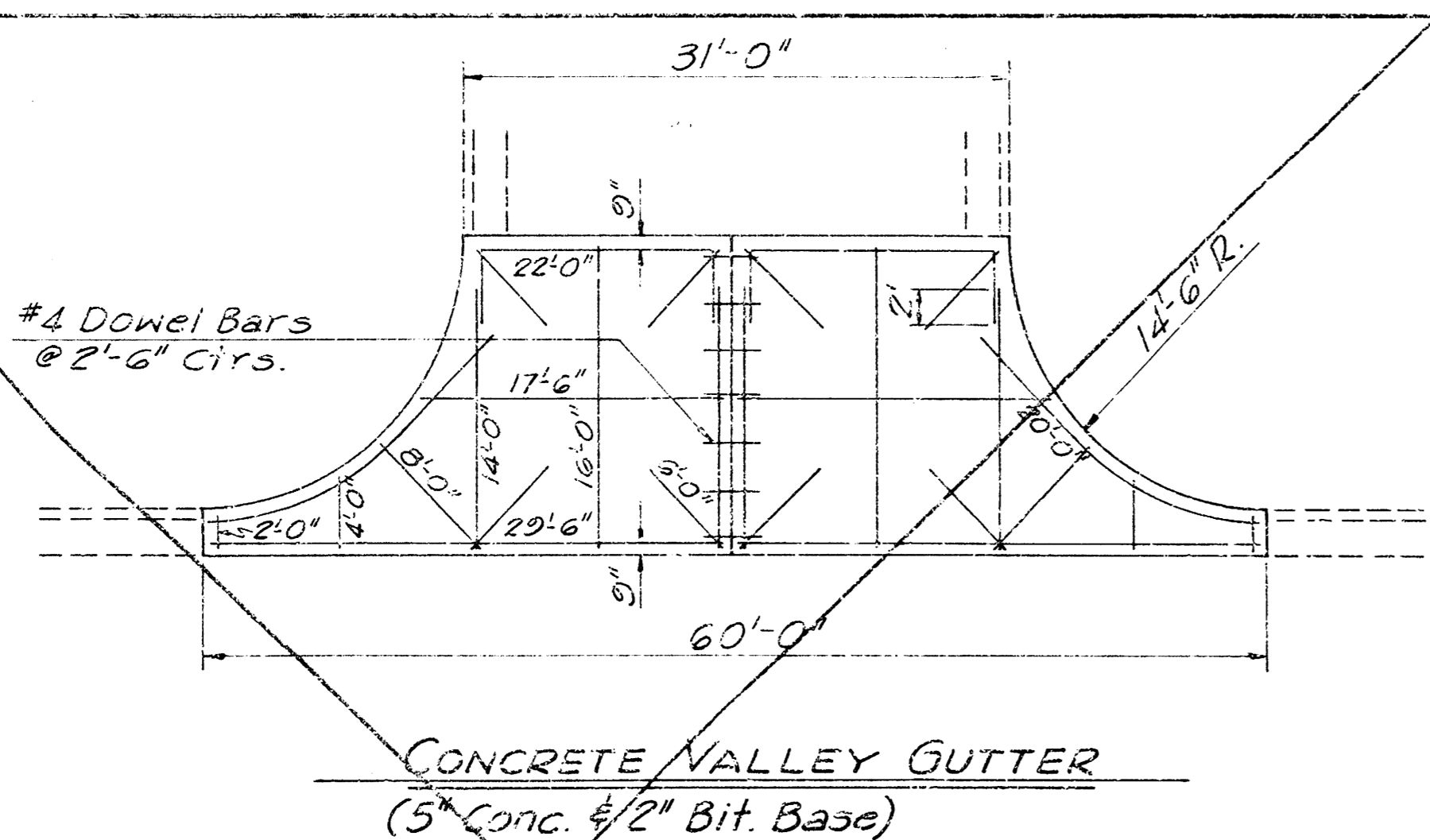
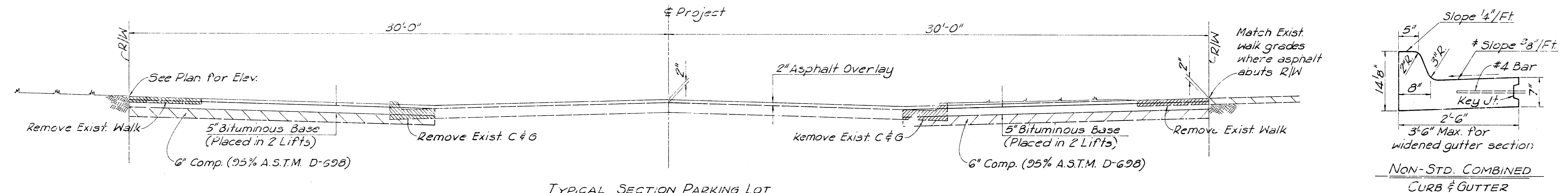
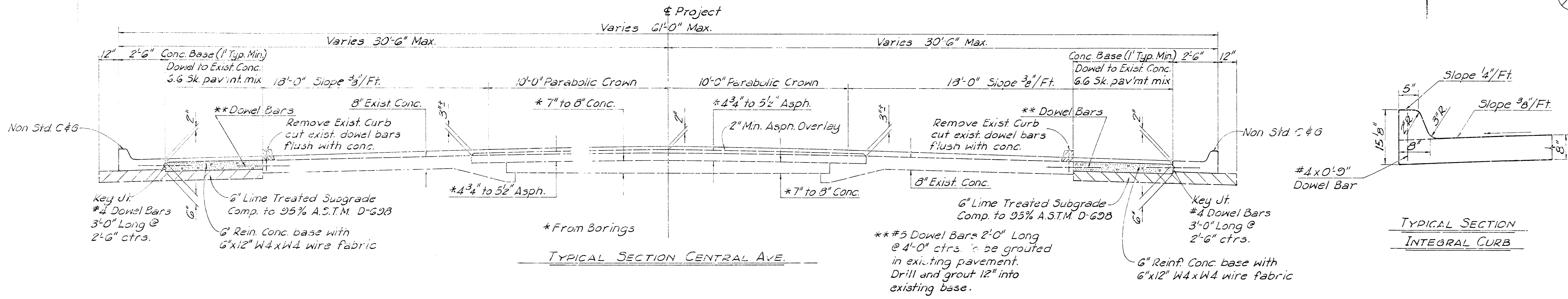
APRIL, 1983

PROJ. NO. 472-76-245-81203-000-000-001



NOTE: Traffic shall be carried through construction in accordance with requirements presented in Special Provision.

PLANS PREPARED BY
Boomer/Frueh
Engineers Architects Planners
WICHITA, KANSAS



All Bars are No. 6
except Dowel Steel.

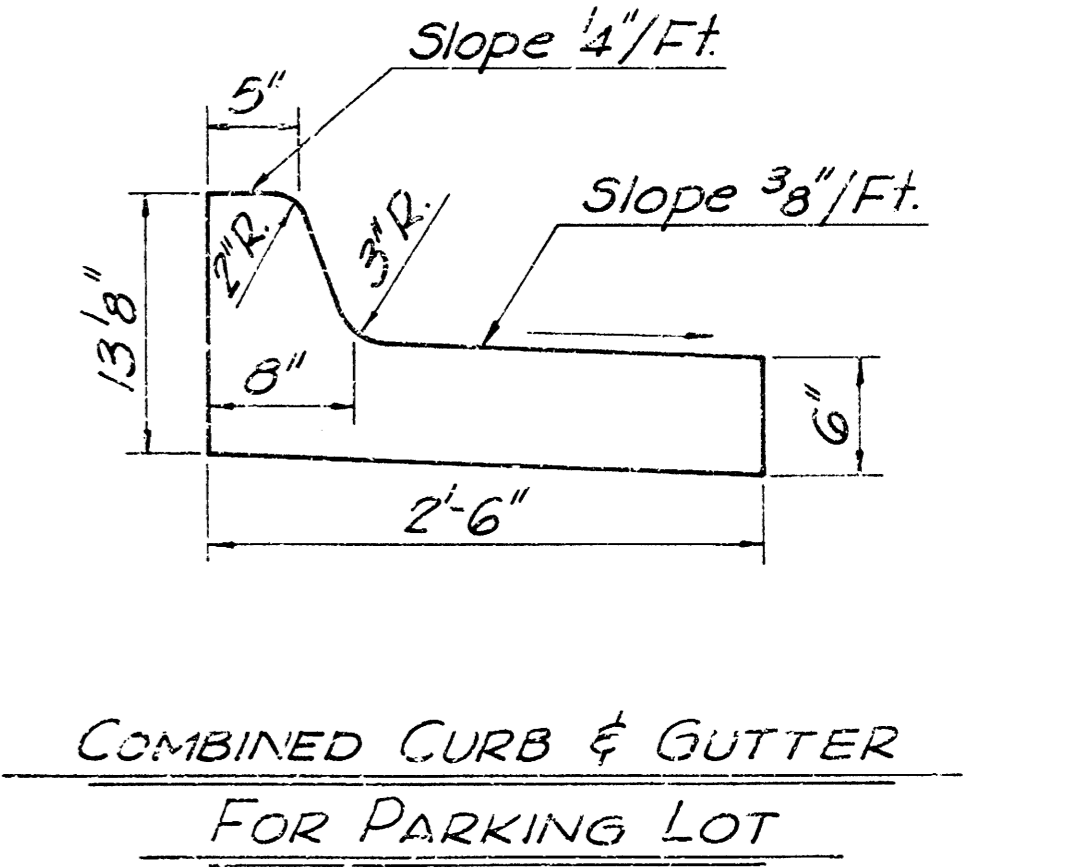
No.	Req.	Length	Shape
2	2'-0"	---	---
2	4'-0"	---	---
3	6'-0"	---	---
2	8'-0"	---	---
2	14'-0"	---	---
2	16'-0"	---	---
2	17'-6"	---	---
2	20'-0"	---	---
2	22'-0"	---	---
2	29'-6"	---	---

NOTE: Key joint, dowel steel and
reinforcing steel is to be
considered subsidiary. Cost to
be included in bid price for pavement.

Rebar Totals:
342 Lin. Ft. per Valley Gutter.

NOTES:
Pavement widening shall be paid as Sq. Yds. 6" Conc. (6.6 Sack Pavement Mix).
The A.C. overlay between the combined curb and gutter shall be paid as Sq. Yds. 2" Min. Asphaltic Concrete Wearing Surface.
Parking lot Base Const. shall be paid as Sq. Yds. 5" Bituminous Base.
The Asphaltic Surface for the parking lot shall be paid as 5 1/2" 2" Min. Asphaltic Concrete Wearing Surface.
~~Either Pebble Quick Lime or Sludge Lime may be used for Subgrade Treatment, but only one type shall be used throughout the project.~~
A tack coat of emulsified asphalt (SS-1H or CSS-1H) shall be applied at an approx. rate 0.05 gallons per sq. yd. between lifts of asphaltic materials when ordered by the Engineer. Tack coat will not be paid directly and shall be considered as subsidiary to price bid for asphaltic pavement. Construction Joints in each lift shall be staggered a minimum distance of 1' with joints in preceding lifts.
Contractor to adjust all manholes within project limits to finish grade. Where pavement removal is necessary to facilitate adjustment, minimum dimensions shall be 5'x5'. Replacement shall be minimum 8" conc. (6.6 Sack Pavement Mix) with 12"-#4x4'-8" rebars placed around manhole. Any additional removal depth shall be backfilled with fill sand, flushed and vibrated to permit minimum 8" pavement and overlay.
After the completion of Subgrade and before the placing of Surfacing, Contractor to contact Sewer Maintenance for television inspection of sewers.

* Increase Slope to 1"/Ft.
Rt. Sta 497+69.5 to Sta 498+38.5
Transition to normal Slope in 10'



All driveway construction done in conjunction with this project shall be authorized on a properly executed driveway request form.
The contractor shall bid only one subgrade treatment alternate. The alternate chosen by the successful bidder shall be used in the construction of this project.

DEPARTMENT OF ENGINEERING
R.W. BRUGGEMAN, DIR. OF ENGINEERING - CITY ENGINEER

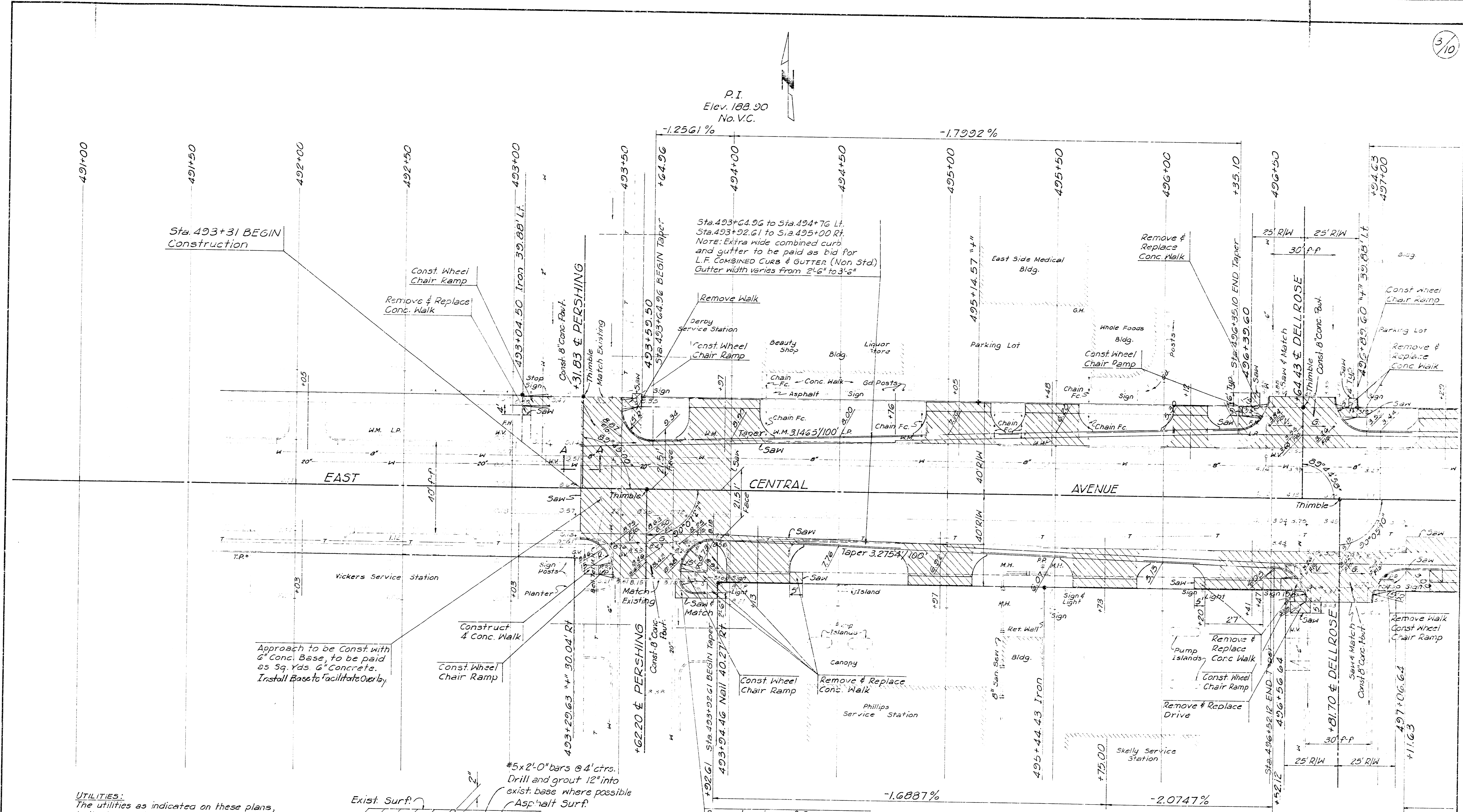
EAST CENTRAL AVE. & OLIVER ST.

TYPICAL SECTIONS

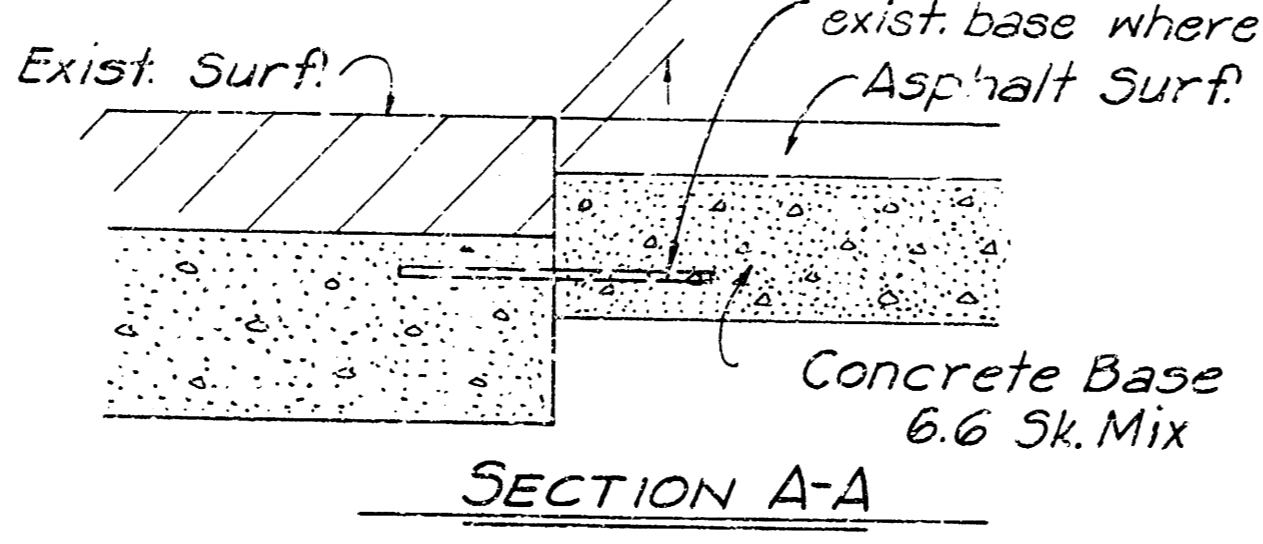
CITY OF WICHITA PROJ. NO. 472-76-245-8203-000-000-001

Hooker/Freund
Engineers Architects Planners

SCALE _____ DATE April, 1993 DWG. NO. K-9085-

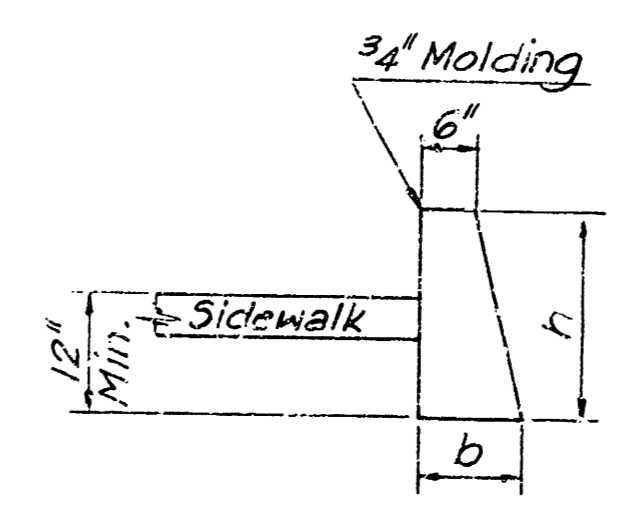


UTILITIES:
 The utilities as indicated on these plans, both above and below ground, represent the best information available at this time. It is the contractor's responsibility to contact each of the utility companies involved for accurate field location of their utilities prior to beginning any excavation or construction work on this project.



LEGEND
 [Hatched Box] Removal

1'-05"
 1'-10"
 1'-15"
 1'-20"
 Indicates proposed elevations. Elevations shown at back of curb are top of std. height curb.
 Indicates flow line elevations, other elevations shown in intersections are finished surface elevations.



DIMENSION		Conc./FF
h	5'	Cu Yds.
1'-9"	11"	046

NOTE: All excavation for retaining walls shall be included in the bid price per lin. ft. of retaining walls.

B.M.#2 RR. spk. in tel. pole
 32' Rt. Sta. 491+78 El. 193.54

DEPARTMENT OF ENGINEERING
 R.W. BRUGGEMAN, DIR. OF ENGINEERING - CITY ENGINEER
EAST CENTRAL AVENUE
PLAN I
 CITY OF WICHITA PROJ. NO. 472-76-245-BL33-000-000-001
Boeker/Grund
 Engineers Architects Planners
 SCALE 1"=20' DATE April, 1983 DWG NO. K-9065

P.I.
 Elev. 188.90
 No. V.C.

P.I.
 Elev. 185.65
 No. V.C.

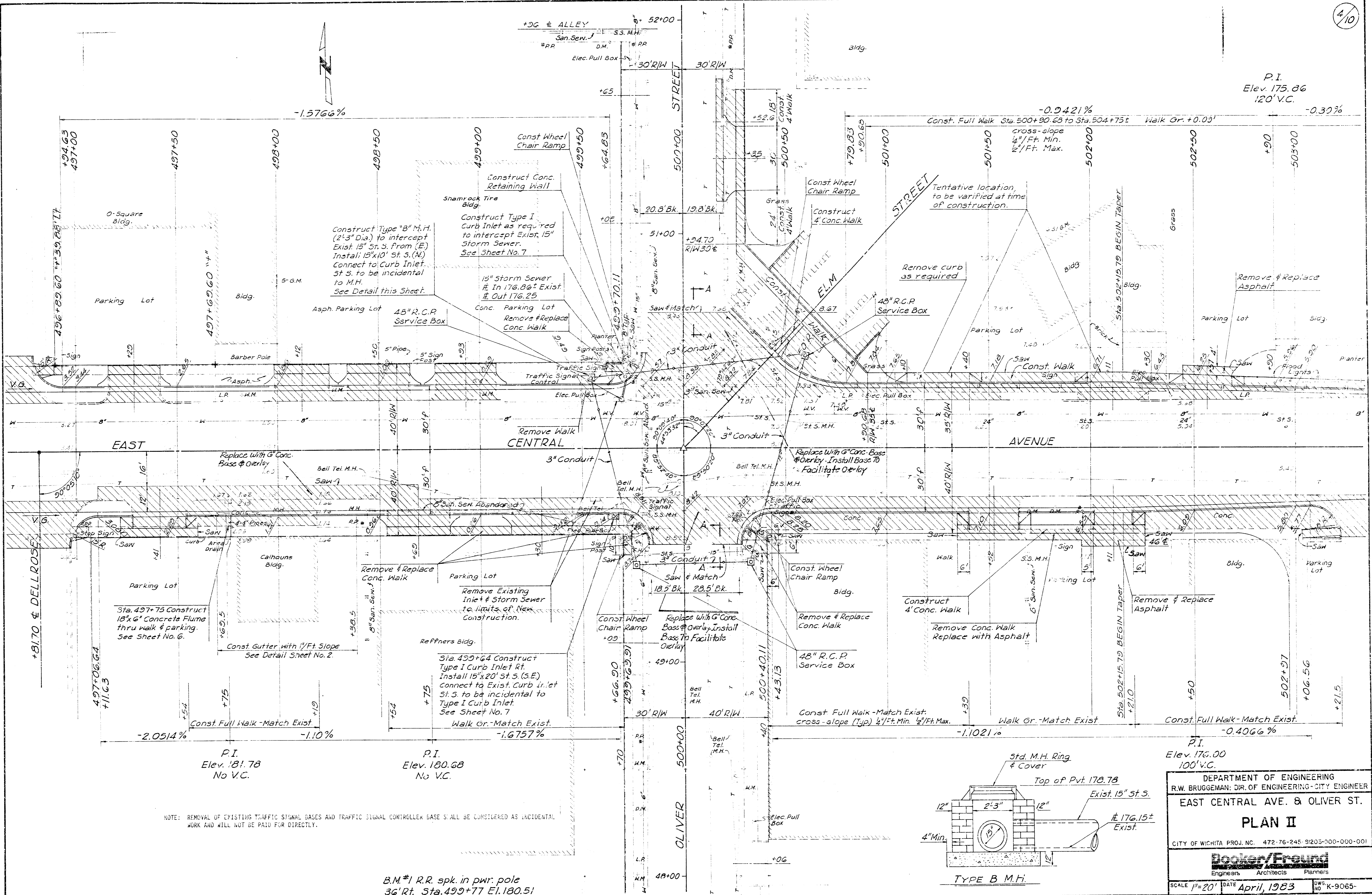
P.I.
Elev. 175.86
120' V.C.

-0.37%

Const. Full Walk Sta. 500+90.68 to Sta. 504+75.1
Walk Gr. +0.00'

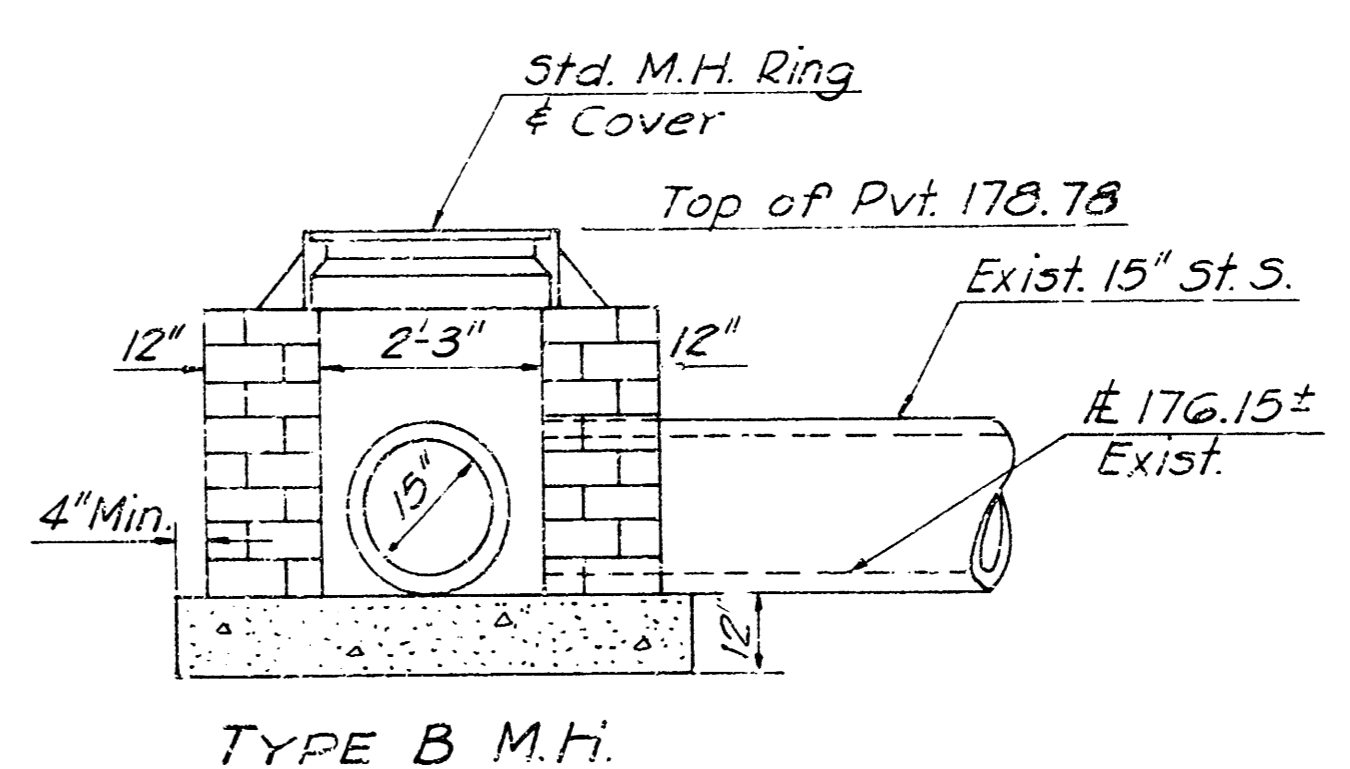
-0.9421%

-1.5766%



NOTE: REMOVAL OF EXISTING TRAFFIC SIGNAL BASES AND TRAFFIC SIGNAL CONTROLLER BASE SHALL BE CONSIDERED AS INCIDENTAL WORK AND WILL NOT BE PAID FOR DIRECTLY.

B.M.#1 R.R. spk. in pwr. pole
36' Rt. Sta. 499+77 El. 180.51



P.I.
Elev. 176.00
100' V.C.

DEPARTMENT OF ENGINEERING
R.W. BRUGGEMAN, DIR. OF ENGINEERING - CITY ENGINEER

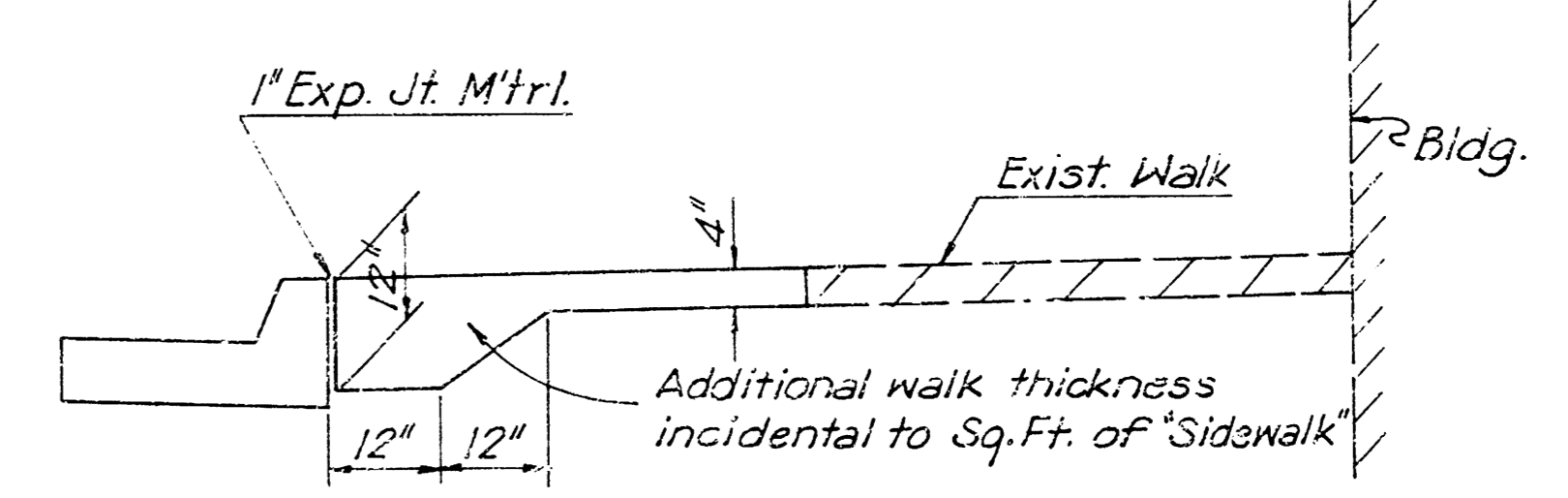
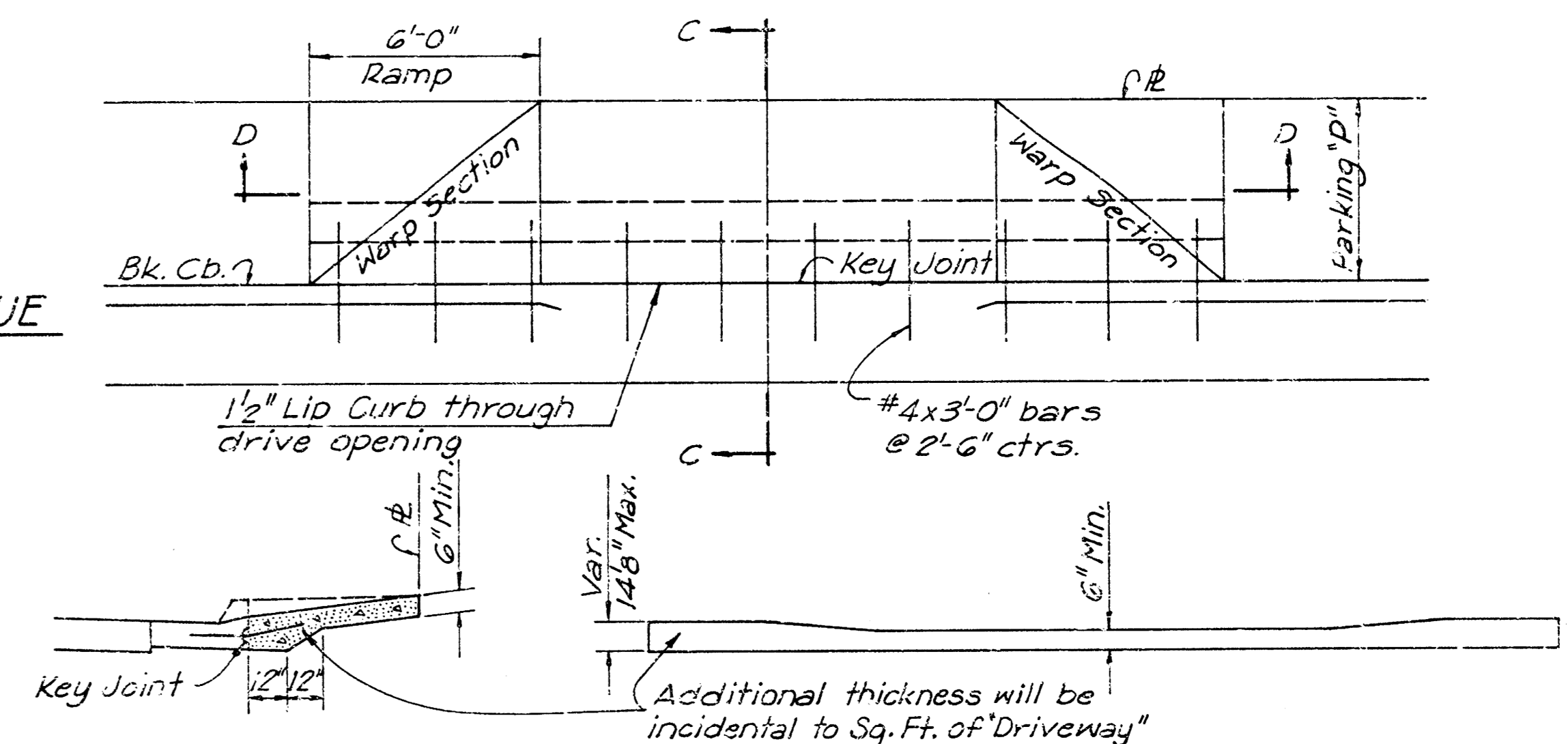
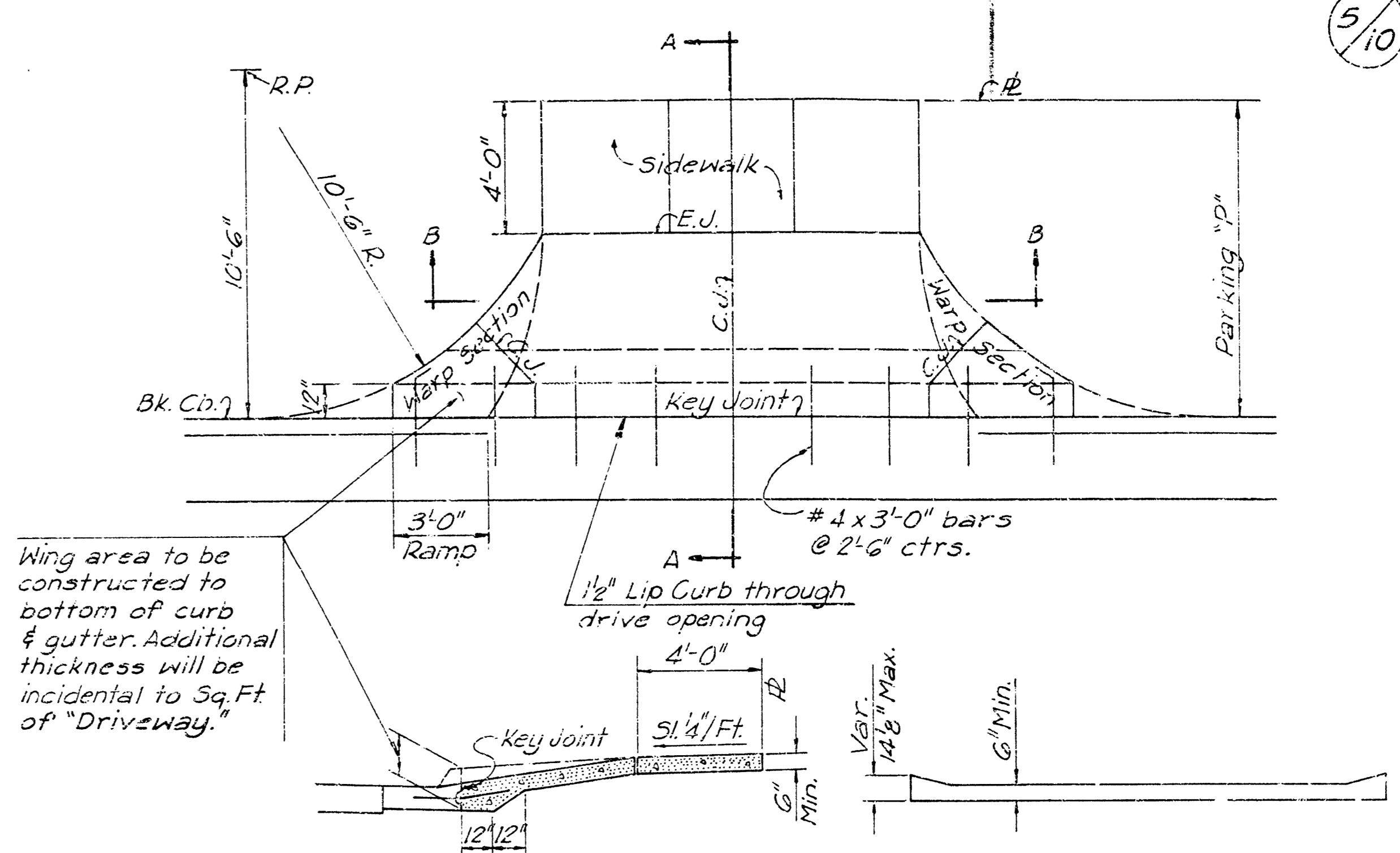
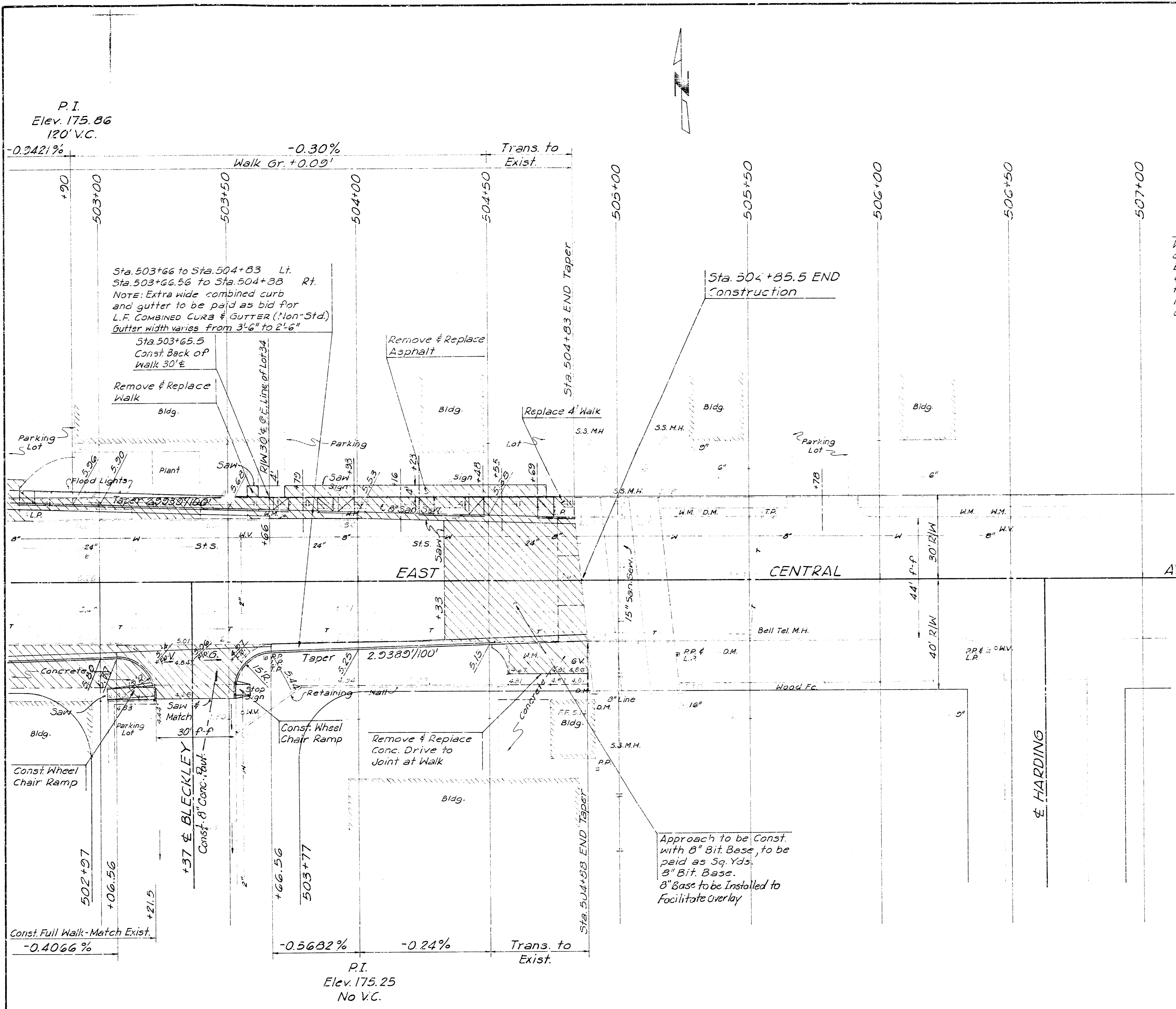
EAST CENTRAL AVE. & OLIVER ST.

PLAN II

CITY OF WICHITA PROJ. NO. 472-76-245-91203-000-0001

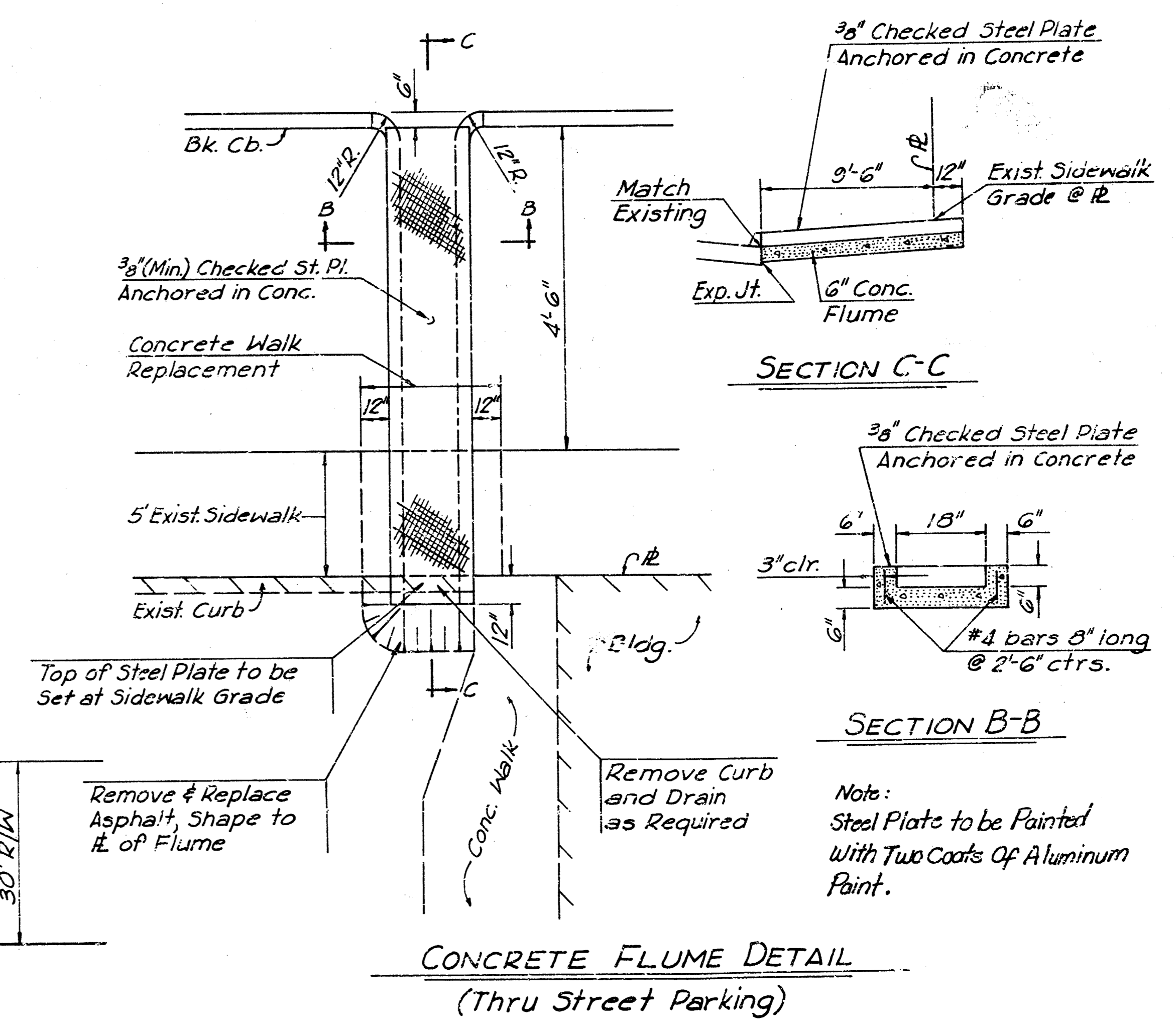
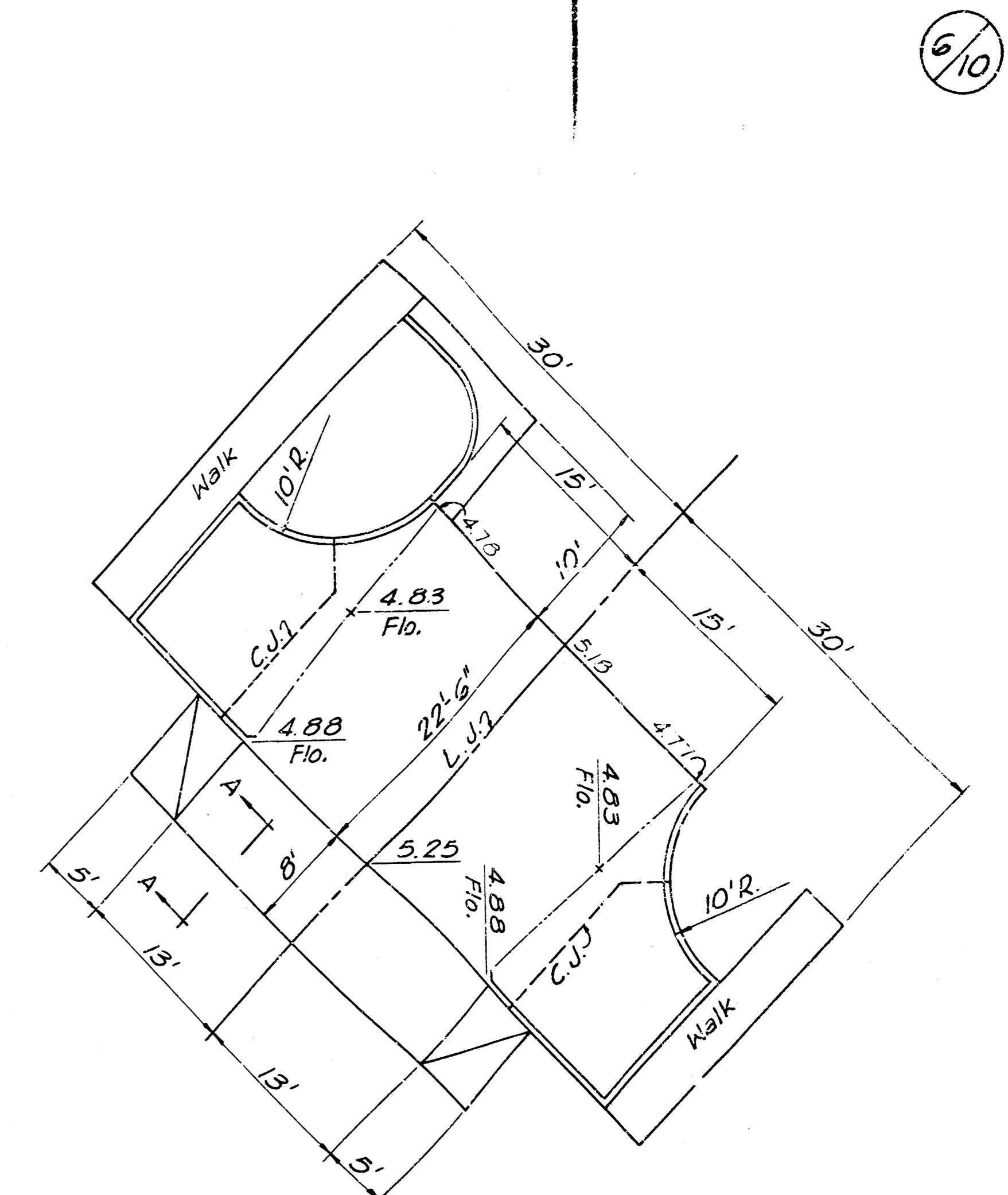
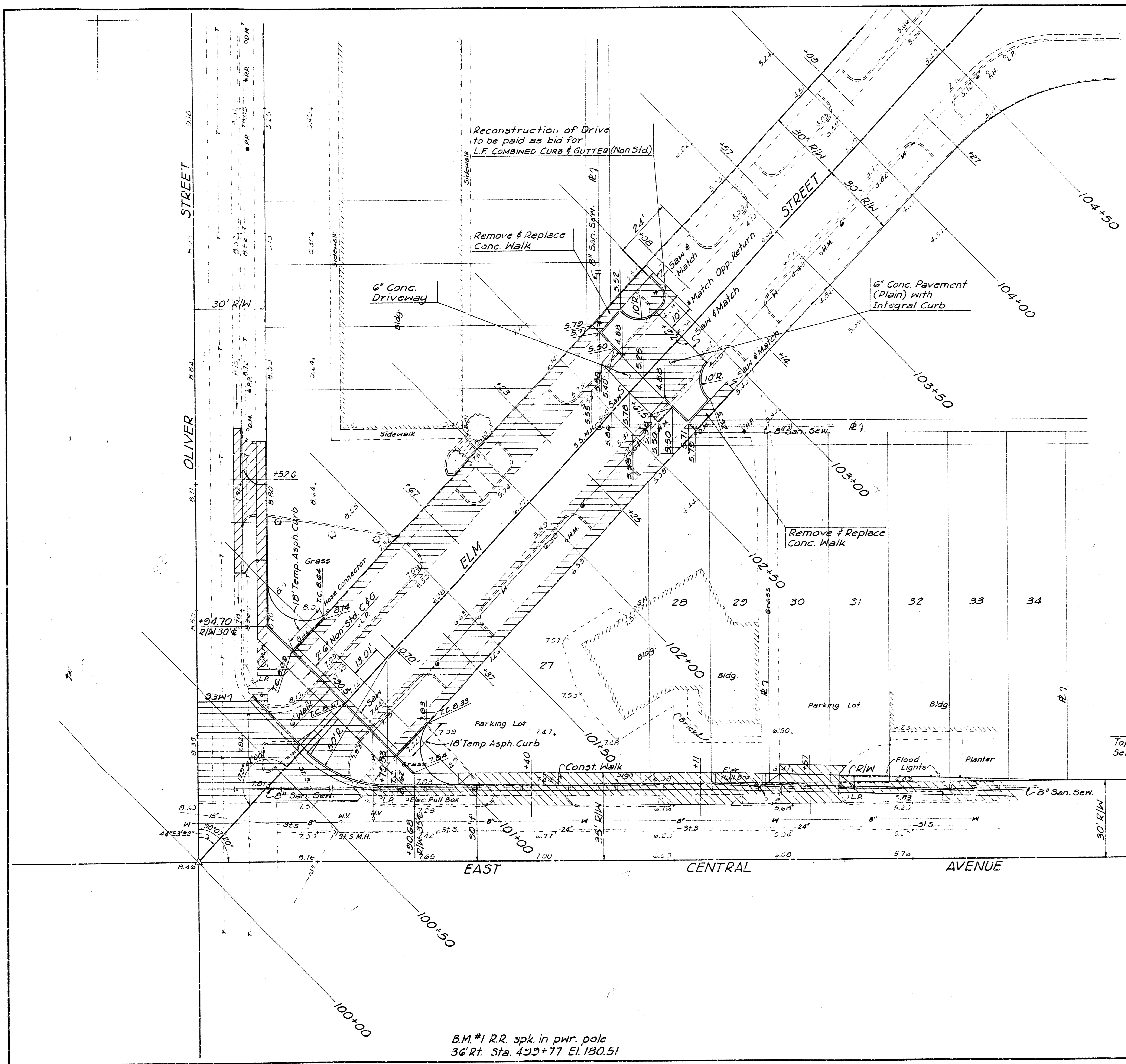
Dooker/Fraund
Engineers Architects Planners

SCALE 1"=20' DATE April, 1983 DWG. NO. K-9065-



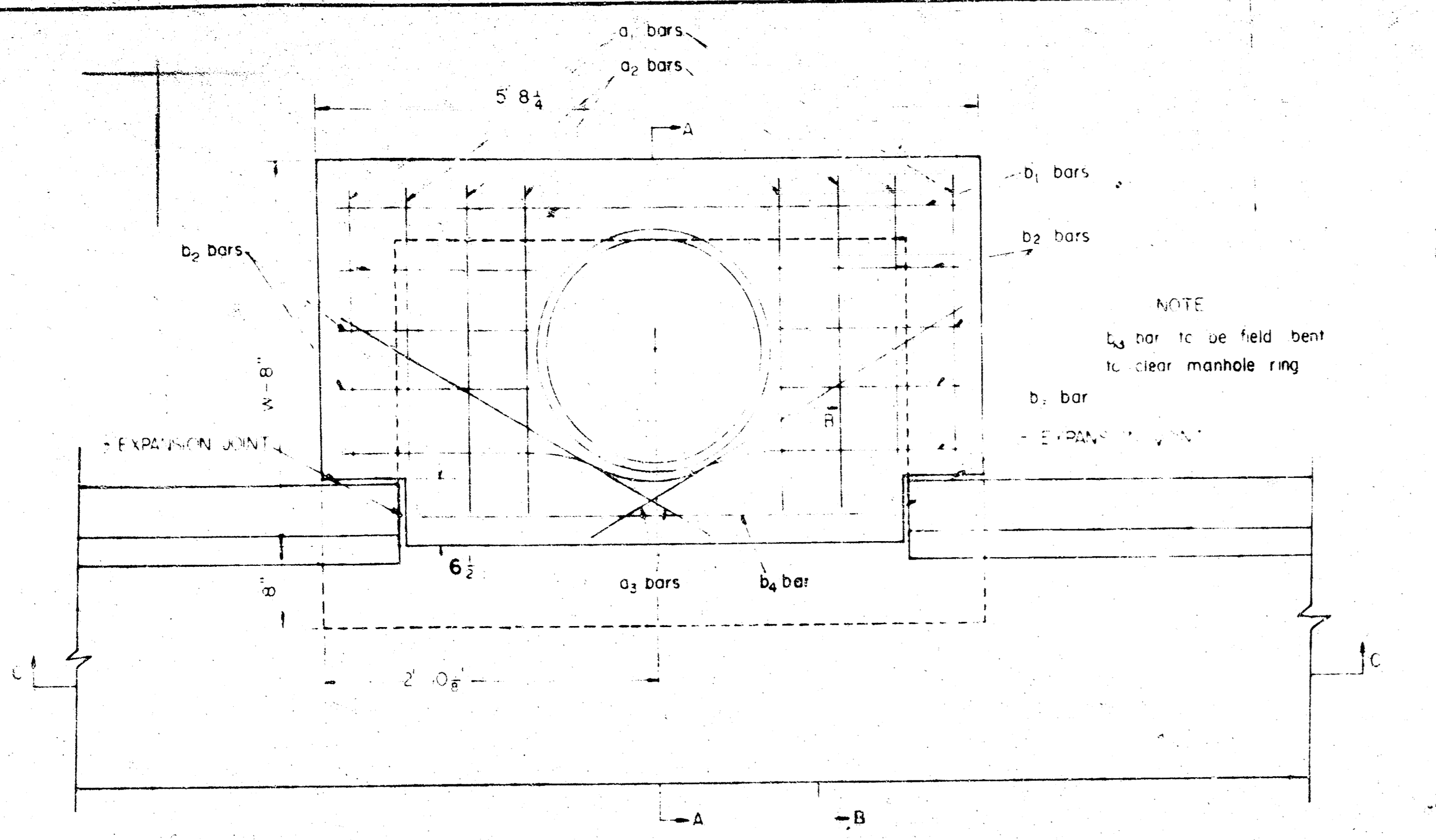
DEPARTMENT OF ENGINEERING
R.W. BRUGGEMAN, DIR. OF ENGINEERING-CITY ENGINEER
EAST CENTRAL AVENUE
PLAN III
CITY OF WICHITA PROJ. NO. 472-76-245-81203-000-000-001
Booker/Fround
Engineers Architects Planners
SCALE 1"=20' DATE April, 1983 DWG. K-9055-NO.

B.M.#3 RR. spk in tel. pole
S.E. cor. Battin & Central E1.133.54

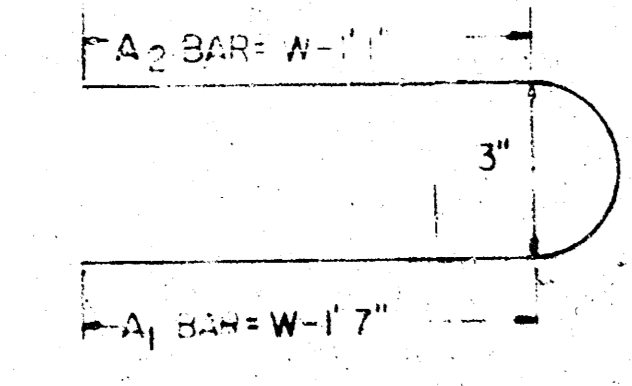


B.M. #1 R.R. spk. in pwr. pole
36' Rt. Sta. 429+77 El. 180.51

DEPARTMENT OF ENGINEERING	
R.W. BRUGGEMAN, DIR. OF ENGINEERING-CITY ENGINEER	
ELM STREET	
PLAN IV	
CITY OF WICHITA PROJ. NO. 472-76-245-81203-000-000-001	
Booker/Freund	
Engineers	Architects
Planners	
SCALE 1"=20'	DATE April, 1983
	DWG. NO. K-9065-



PLAN
SCALE 1"=1'-0"

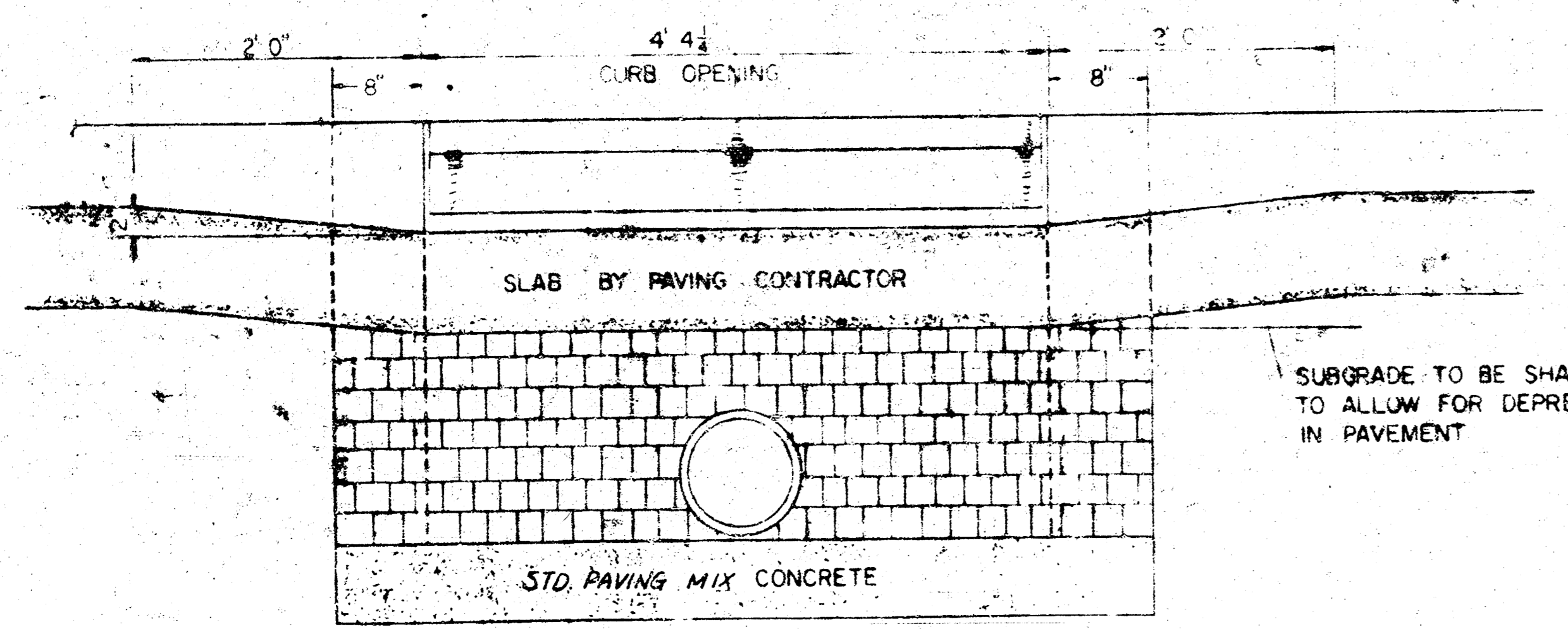


REIN. STEEL TO BE PLACED ON 6" CTRS

SHAPE CURB AND/OR GUTTER AT INLET OPENING WITH SMOOTH CURVES

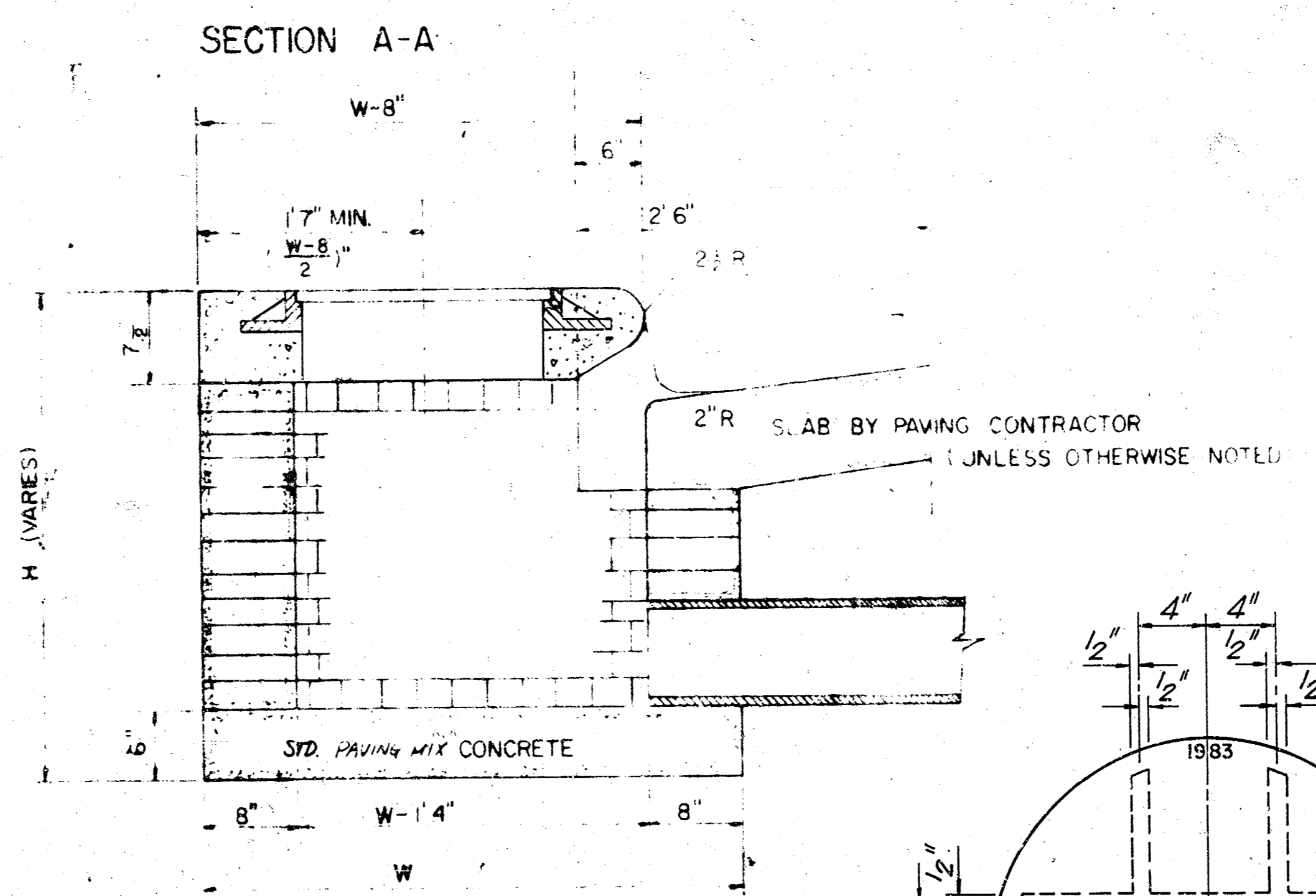
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	W ₁ LBS
SIZE	"4	"4	"4	"4	"4	"4	"4	"6
NUMBER	4	4	2	4	4	4	4	6
W=4'-2"	5'-5"	6'-5"	3'-7"	5'-5"	5'-5"	5'-5"	5'-5"	40
W=5'-0"	7'-1"	8'-1"	4'-7"	5'-5"	5'-5"	5'-5"	5'-5"	77
W=6'-0"	9'-1"	10'-1"	5'-7"	5'-5"	5'-5"	5'-5"	5'-5"	97

NOTE: A₃ BARS TO BE PLACED APPROXIMATELY 2" BELOW TOP OF INLET COVER



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

BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C32 FOR MANHOLE BRICK GRADE MS

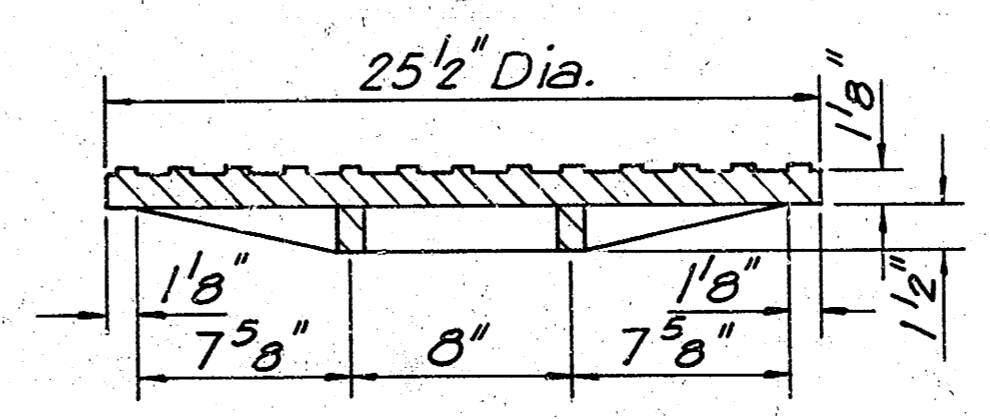
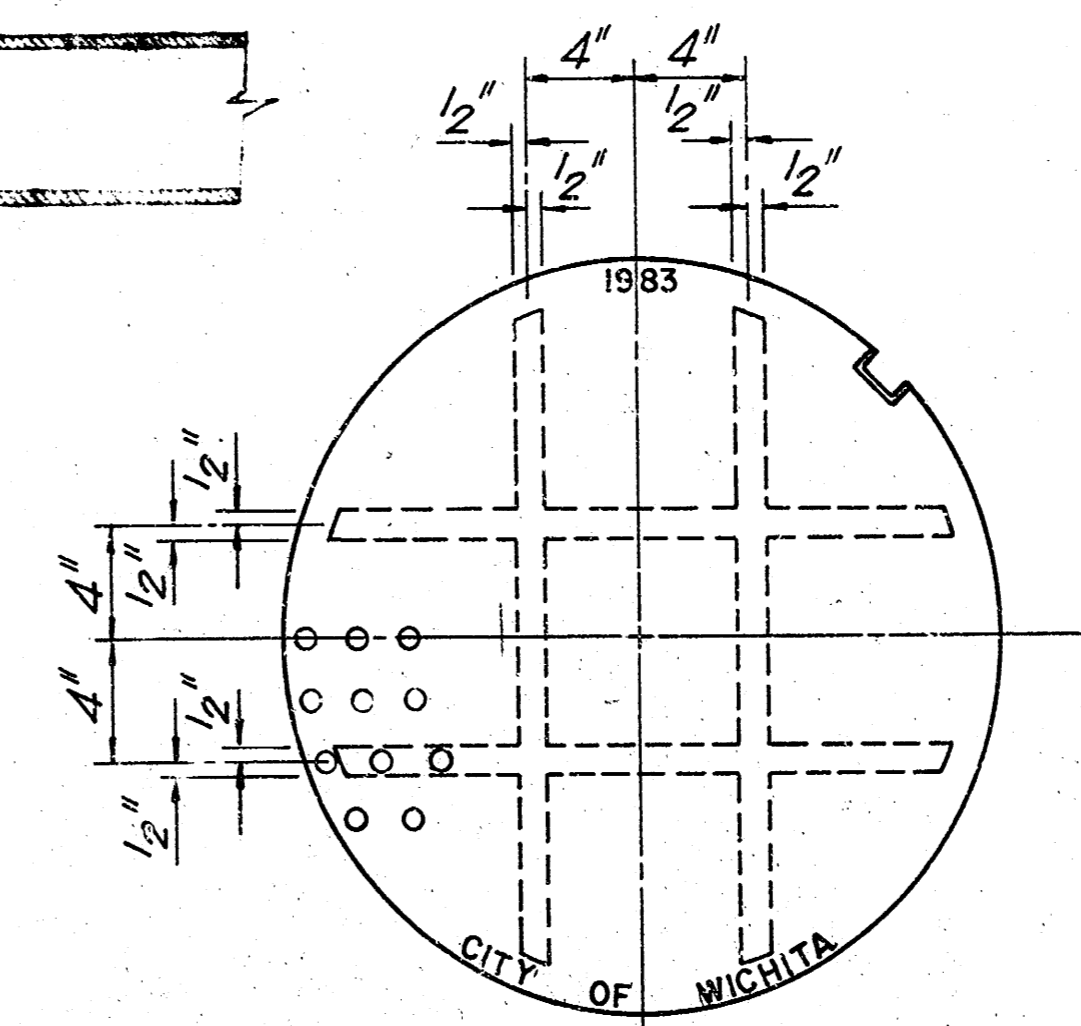


STD CURB INLET CONCRETE TOP

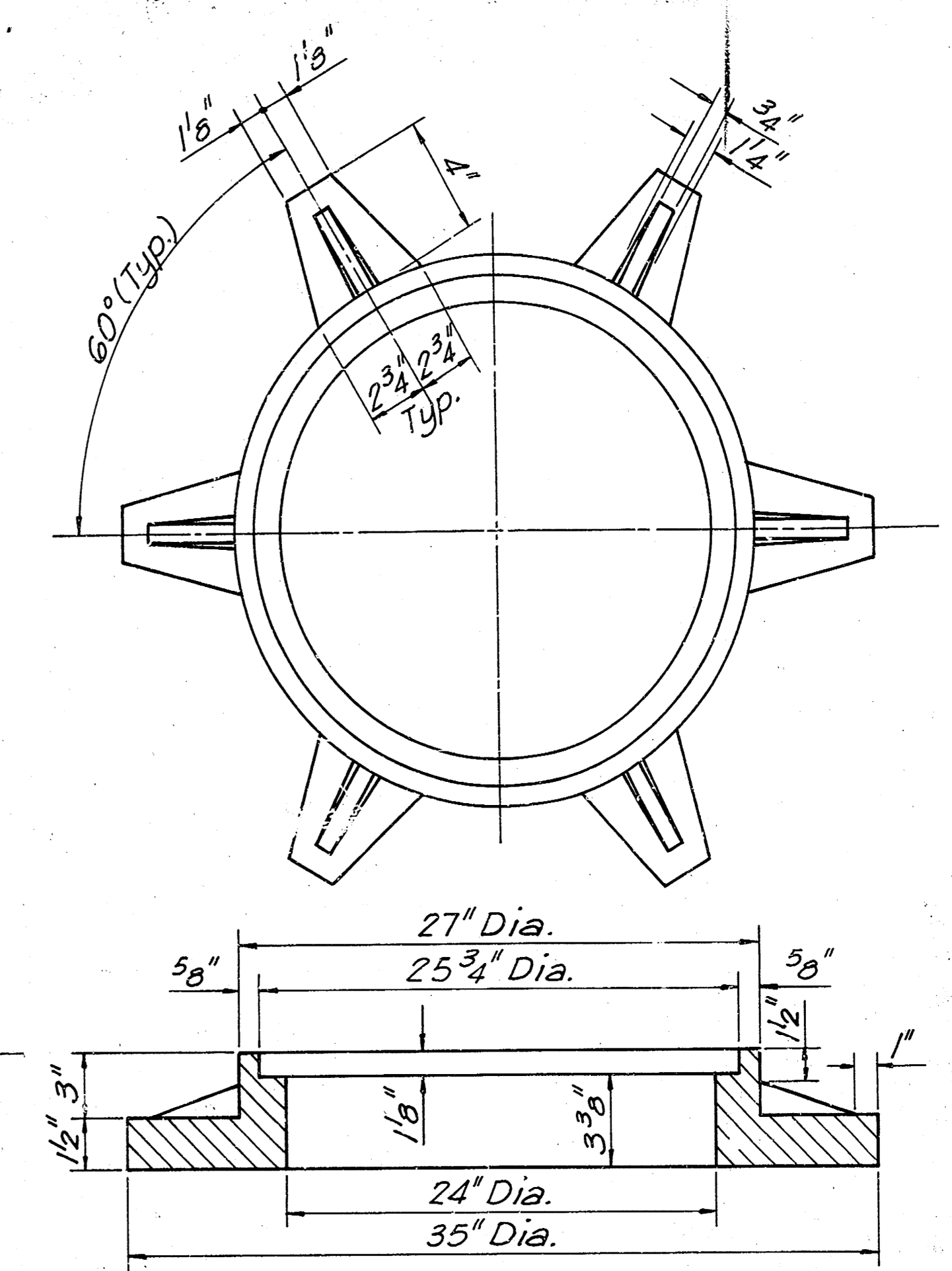
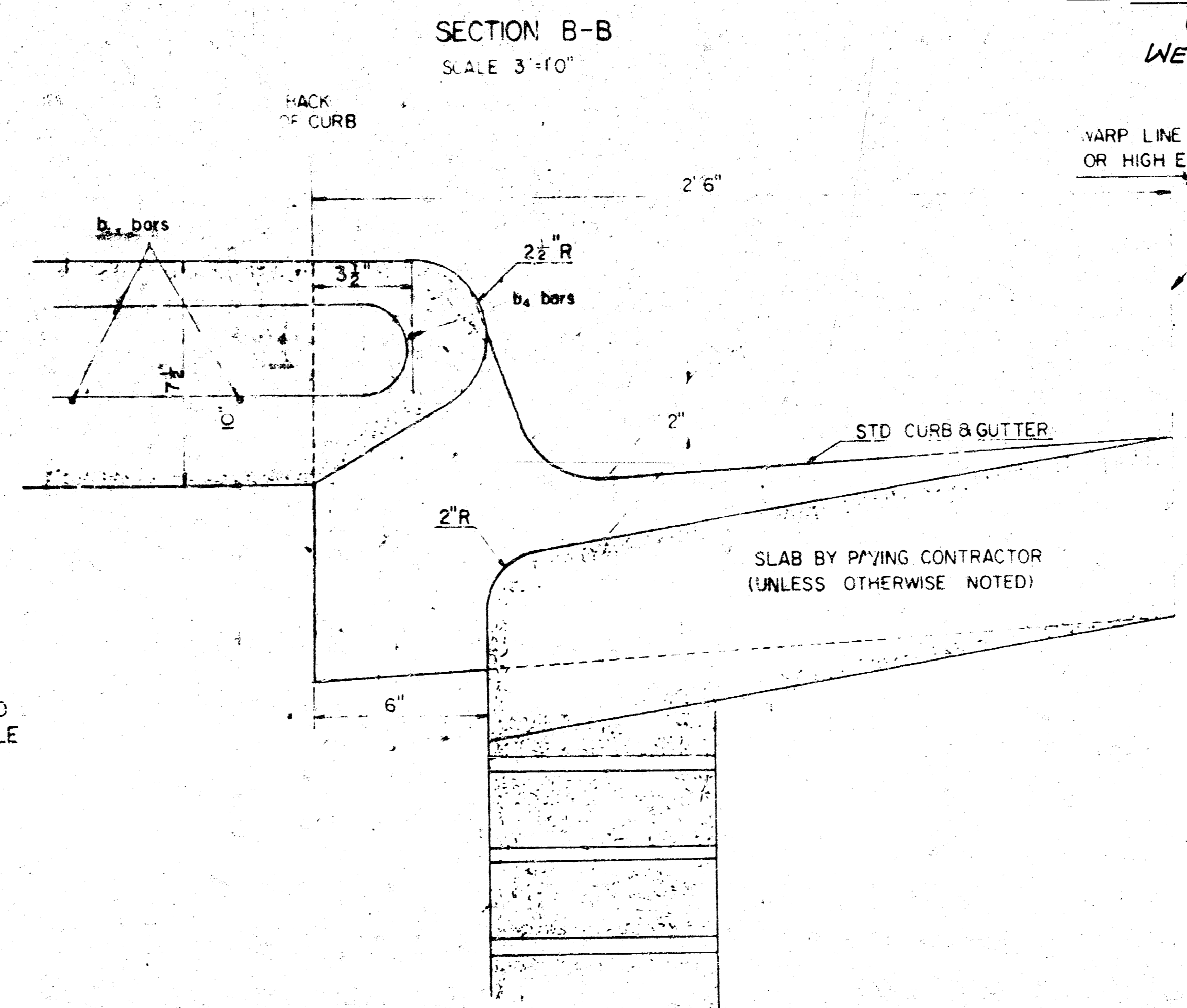
W	SIZE	PIPE SIZE	CU YD CONC
4'-2"	36" x 58 1/2" x 7 1/2"	24" B SMALLER	0.46
5'-0"	44" x 58 1/2" x 7 1/2"	30" B 36"	0.57
6'-0"	54" x 58 1/2" x 7 1/2"	42" B 48"	0.71

GROSS VOLUME

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 FOR INLET TOPS AND FLOORS SHALL BE STANDARD PAVING MIX



VARP LINE ON CONCRETE PAVEMENT OR HIGH EDGE OF COMB CURB & GUTTER

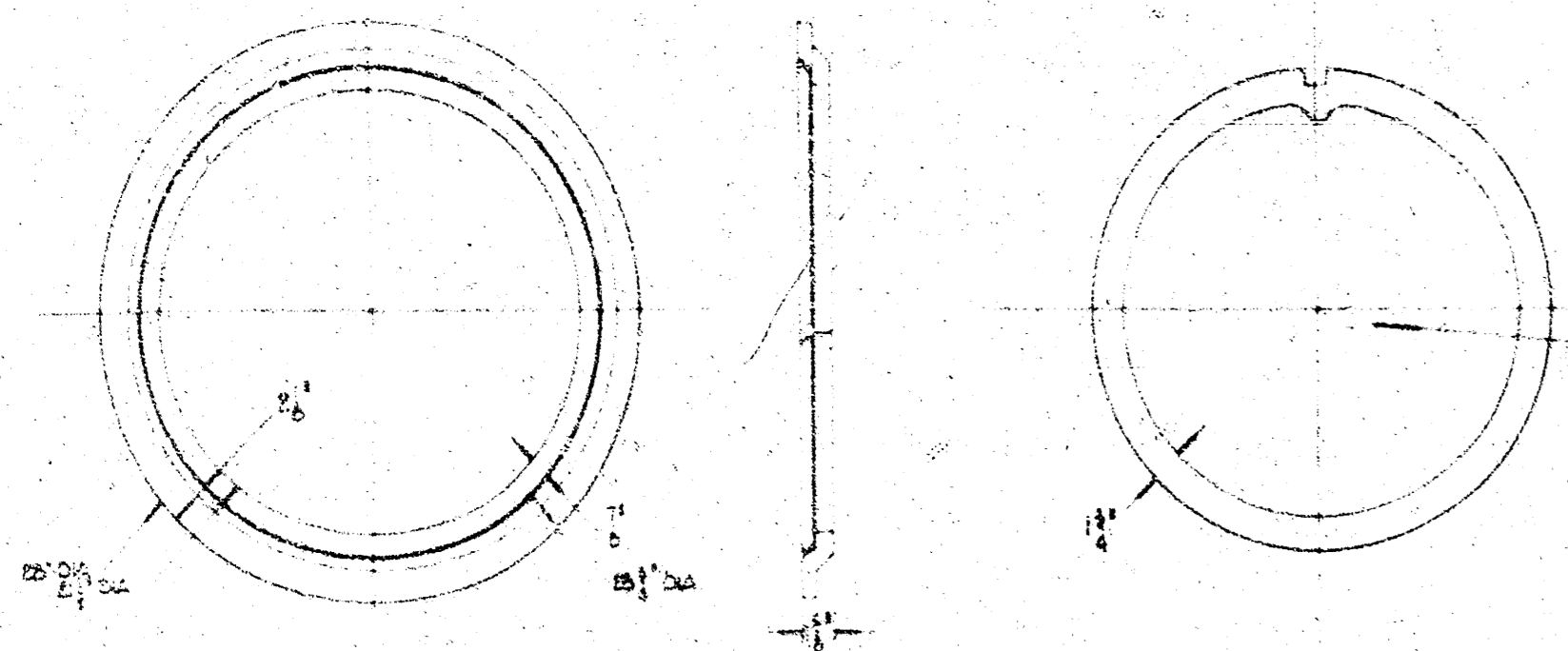


THIS TYPE INLET TO BE USED WHEN PAVEMENT IS ASPHALT PAVEMENT WITH CONCRETE BASE AND/OR WHEN PAVEMENTS HAVE FULL HEIGHT STANDARD CURBS.

1- Revised 4-15-83

DETAIL
STANDARD CURB INLET-TYPE I
CITY OF WICHITA, KANSAS
FEBRUARY, 1975

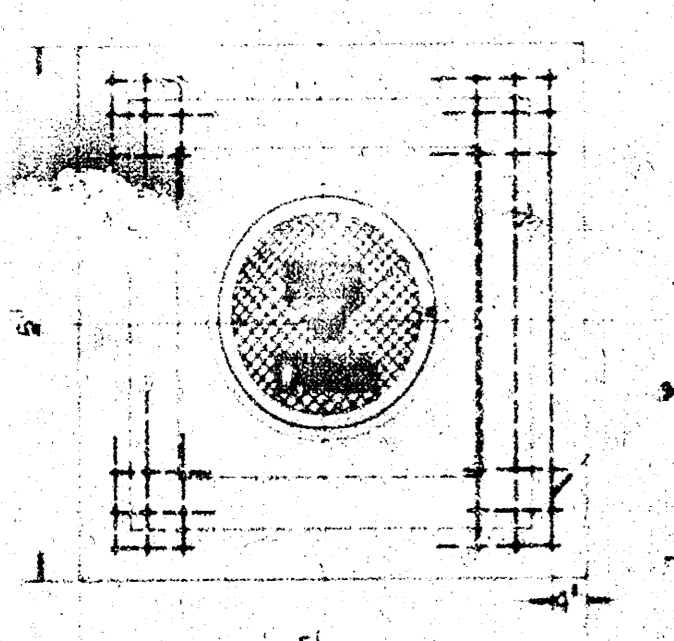
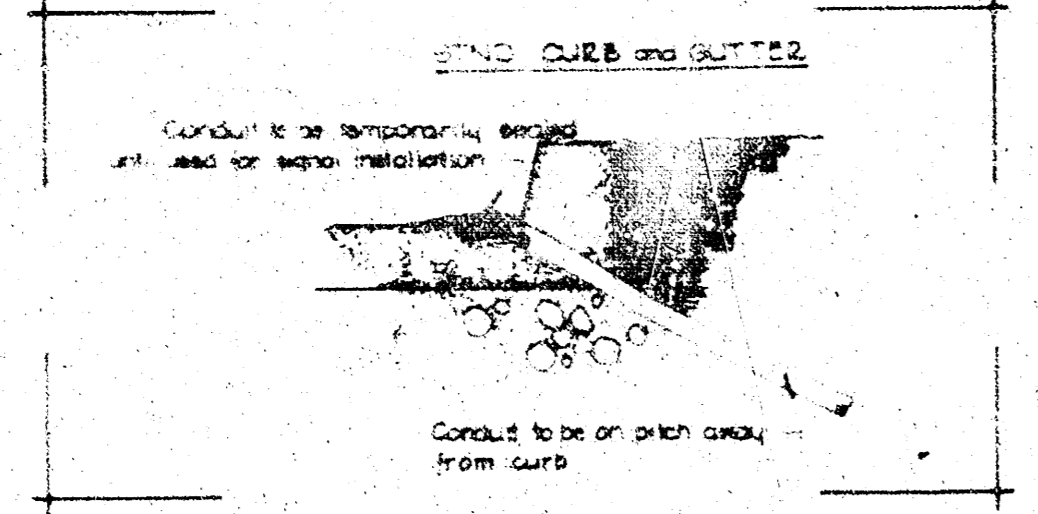
CAST IRON MANHOLE RING and COVER



CITY OF WICHITA
Pattern available from the Traffic O & M Division, Central Maintenance Facility

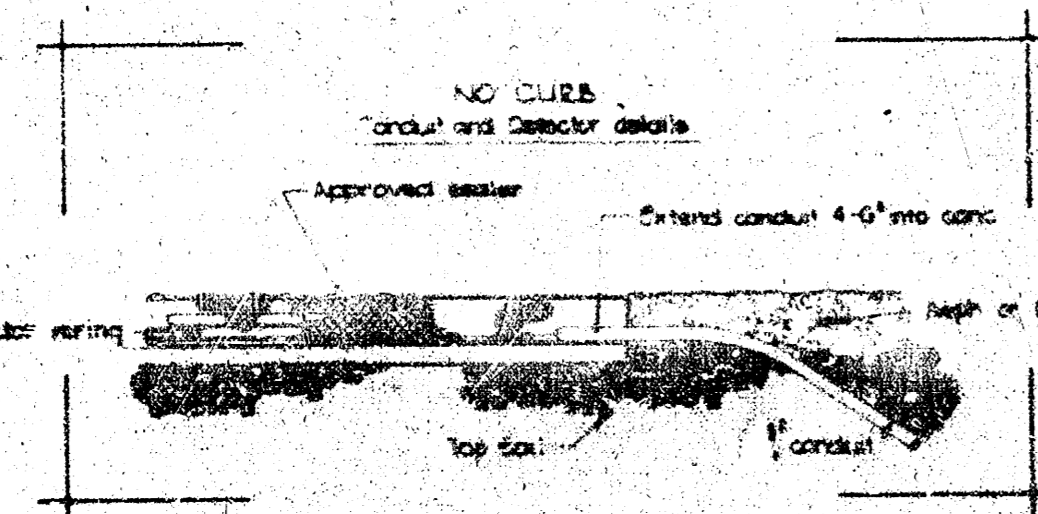
Manhole Ring & Cover Model RG-250 may be purchased from Western Iron & Foundry
Deeter Foundry Inc. Model # 1720 Walkway Ring & Solid Cover

SERVICE BOX DETAILS

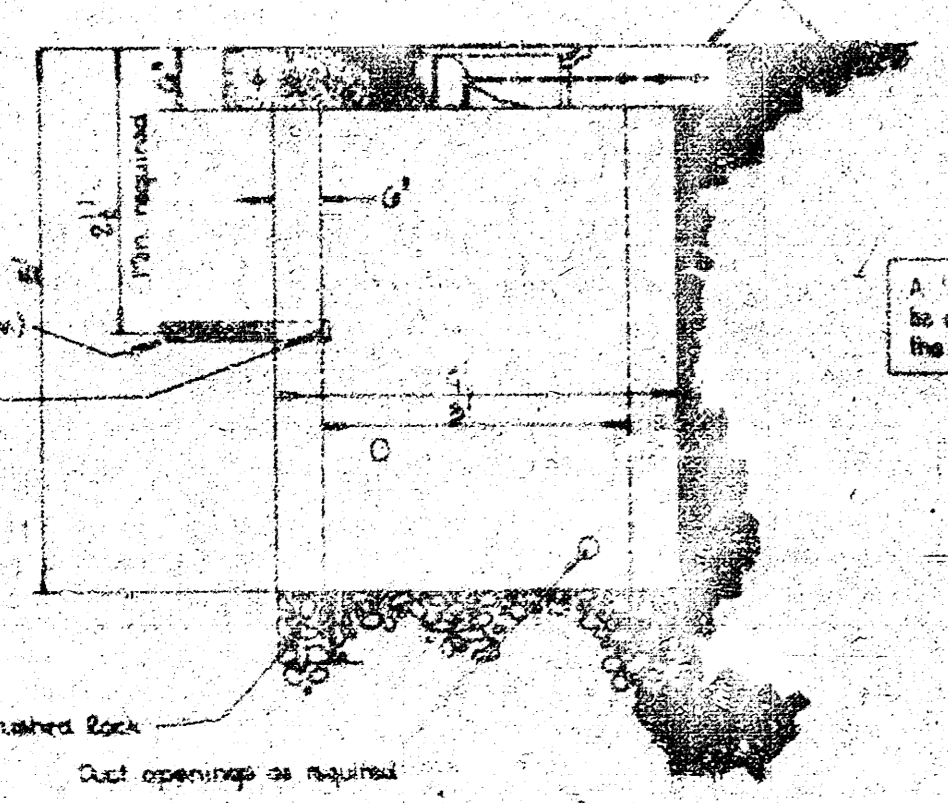


Station & Offset as shown on Plans

3" Easement Center on 4' wide



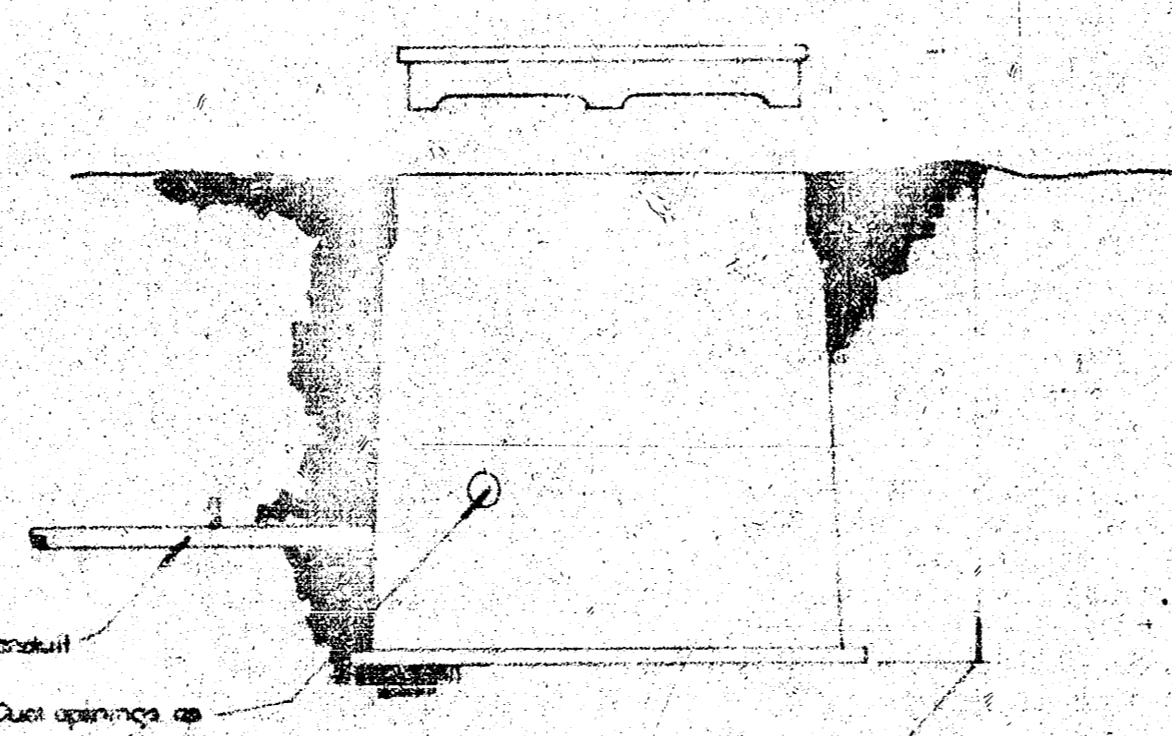
Top of service box to be flush with ground level



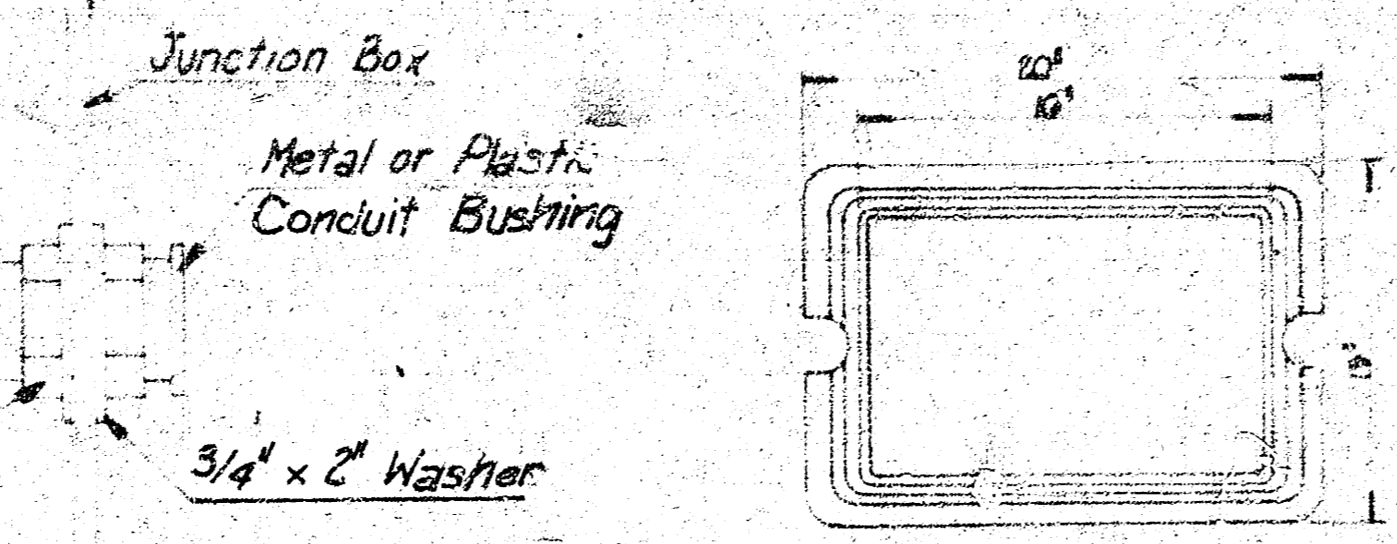
To be flush mount at least with ability to drain into service box

A. Electrical service box with an open bottom will be used as an alternative - subject to approval by the Engineer

JUNCTION BOX DETAILS

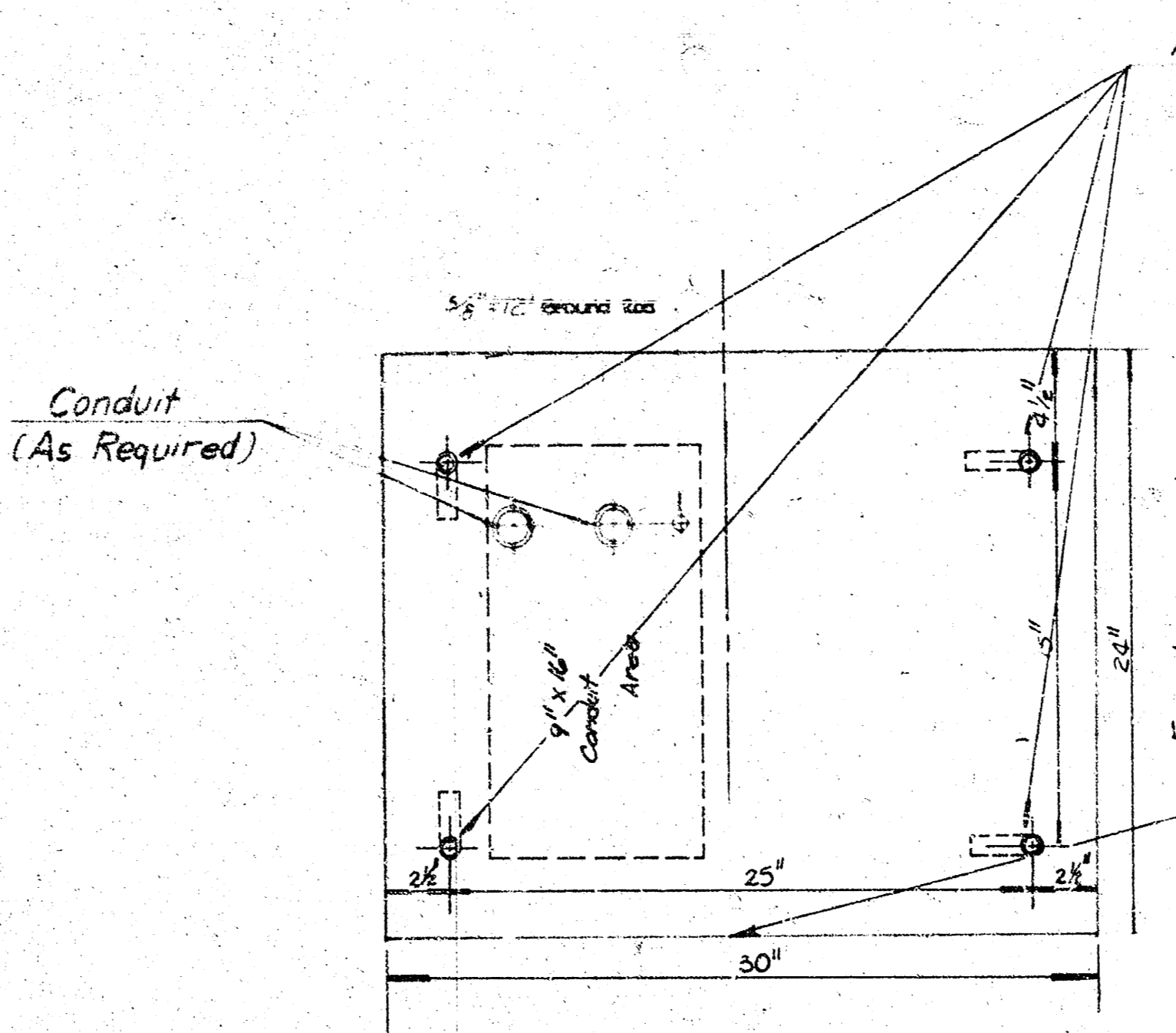


5/8" Junction Box to be used - other designs of similar size and design acceptable as alternative - subject to approval by the Engineer



JUNCTION BOX DETAIL AT CONDUIT OPENING

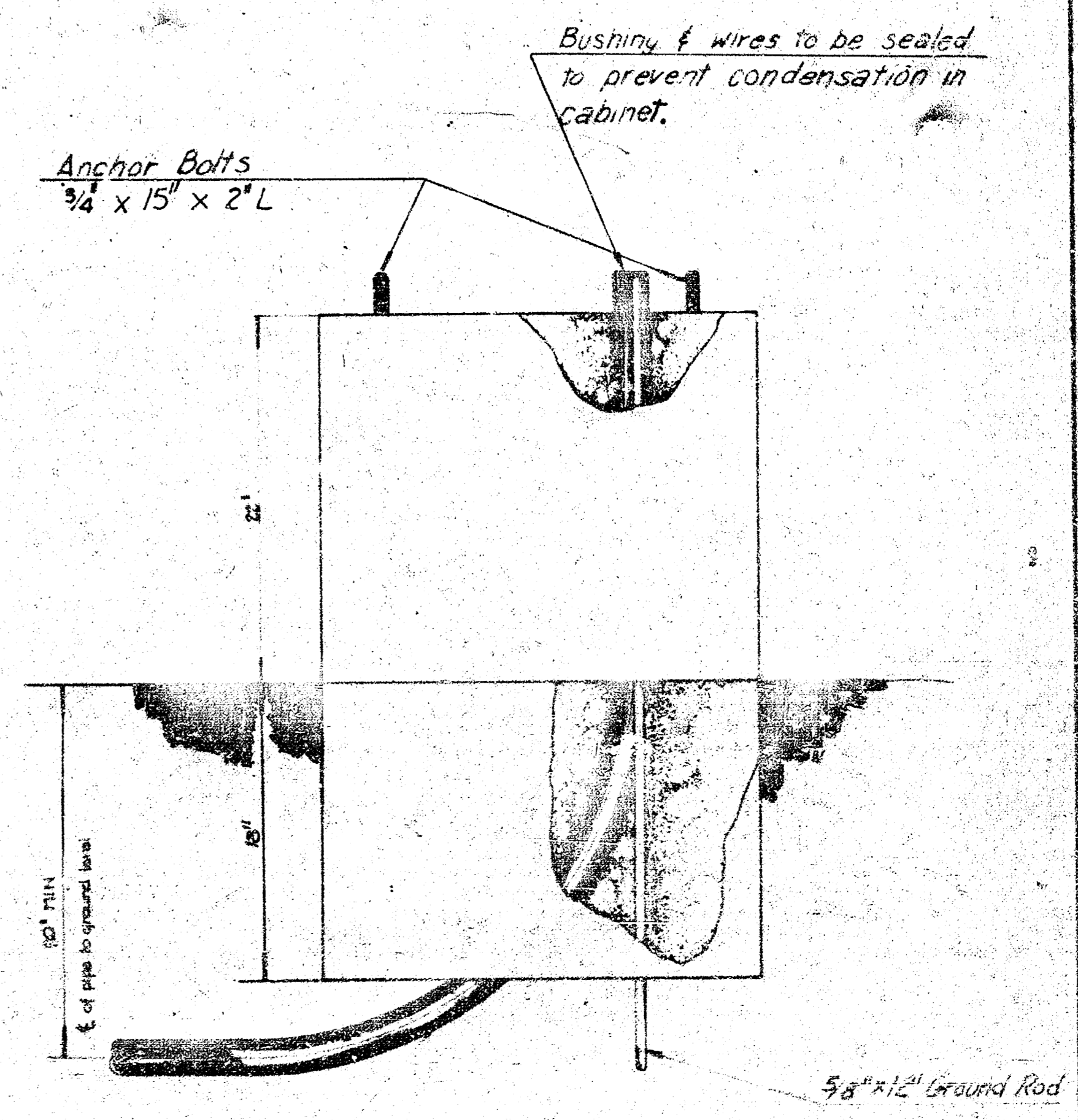
Conduit connections to service boxes shall extend to the inside face of the wall & be terminated with a cable bushing. Conduit at inside face of service box shall be sealed



Anchor Bolts 3/4" x 15" x 2" L

Station & Offset as shown on Plans

CONTROLLER PAD DETAILS FOR TYPE 170 CONTROLLER



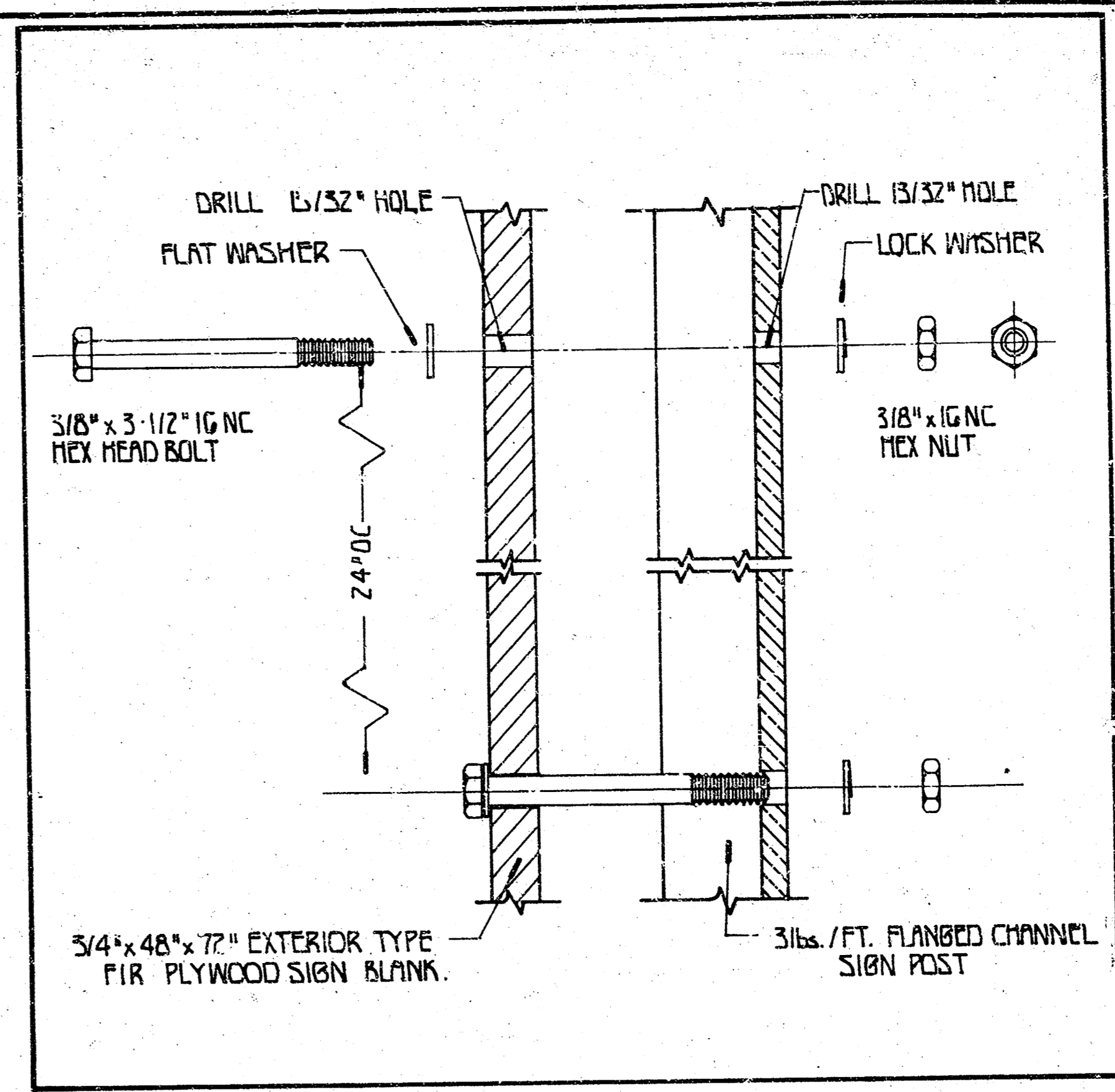
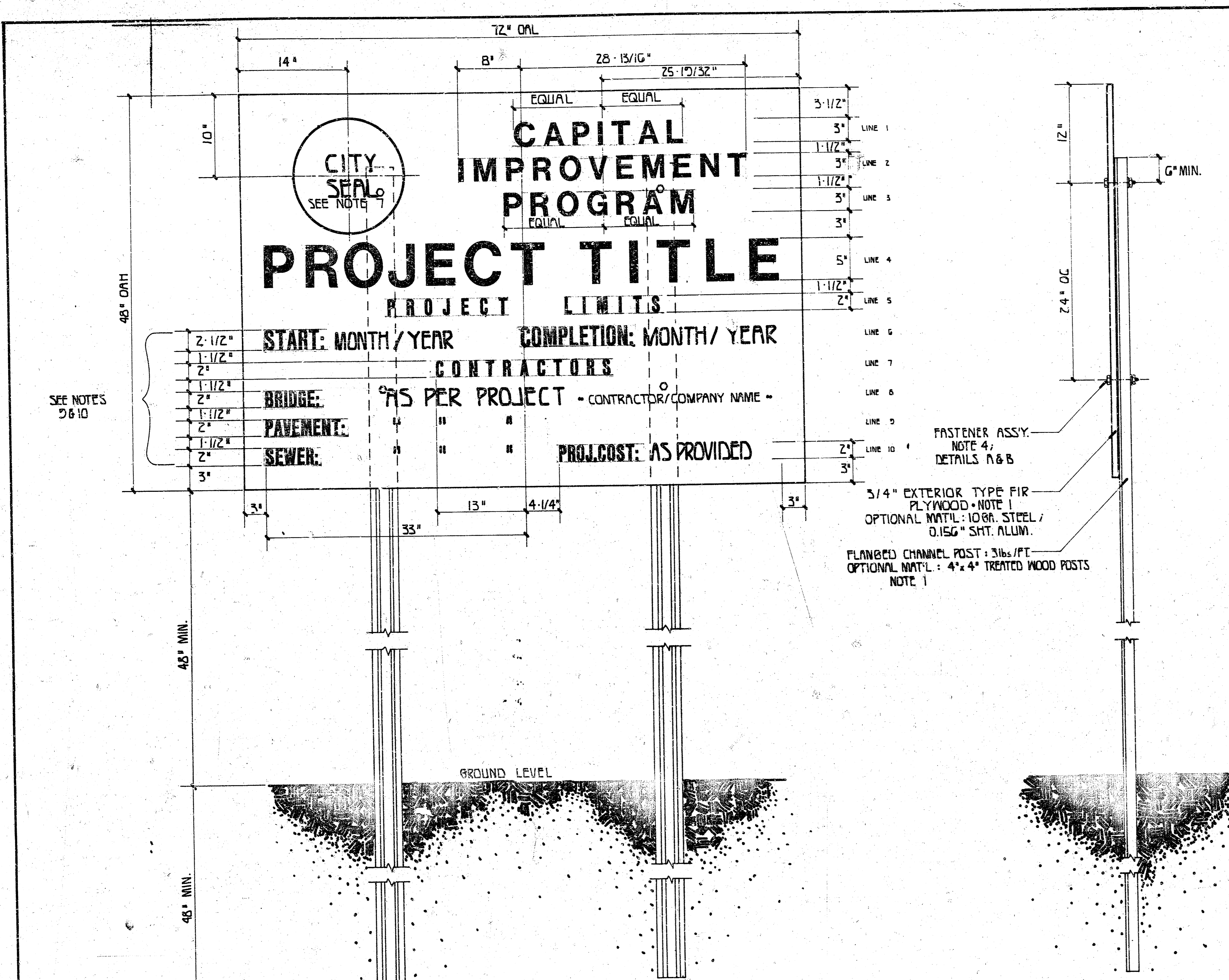
Anchor Bolts 3/4" x 15" x 2" L

Bushing & wires to be sealed to prevent condensation in cabinet.

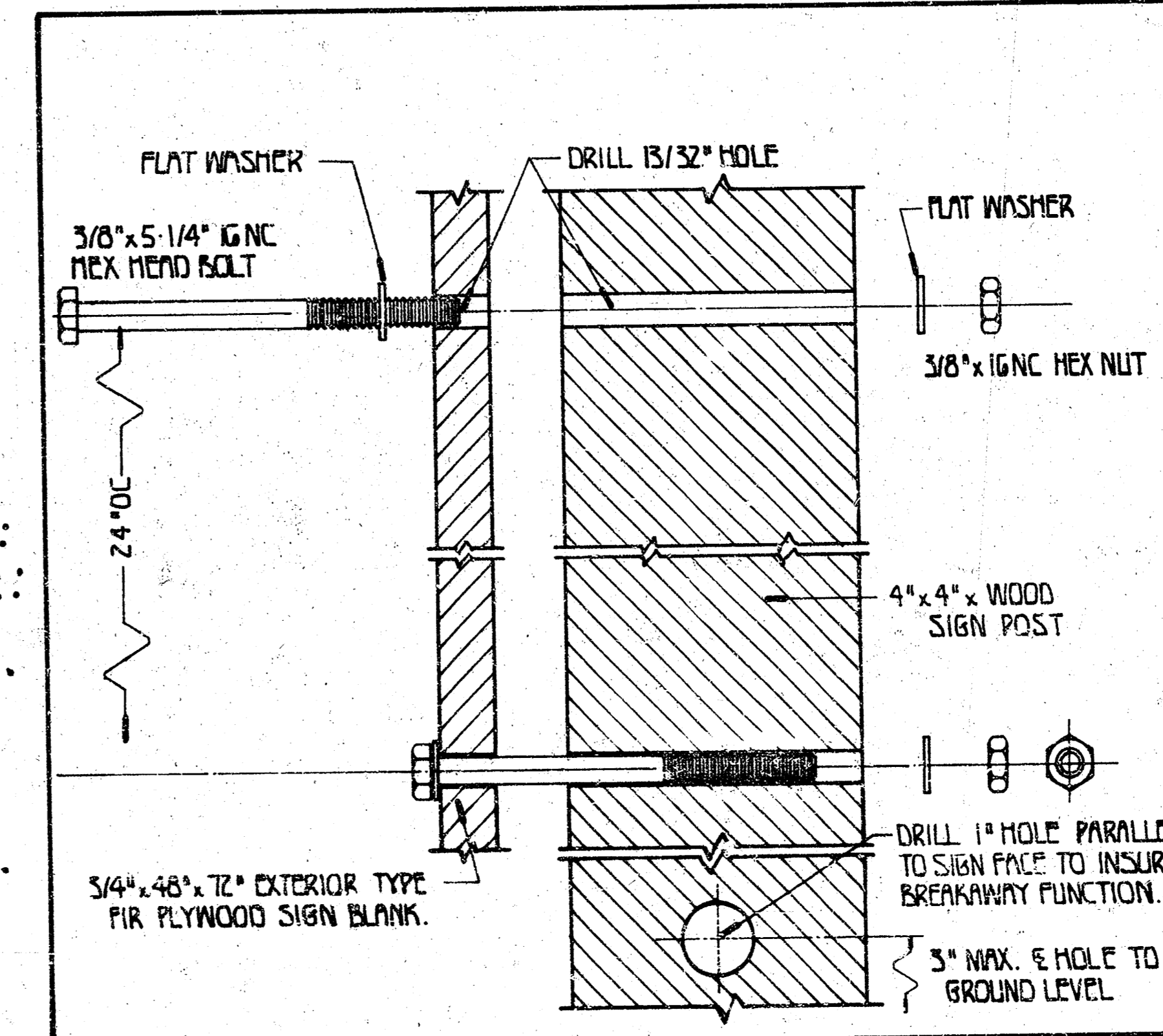
Min. rod for 2" Conduit = 24"

Slope conduit to drain as directed by the Engineer.

SERVICE BOX + JUNCTION BOX DETAILS			
SCALE NONE	APPROVED BY	DATE	REVISION
DRAWN BY GBA			
DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION			
CITY TRAFFIC ENGINEER			DRAWING NUMBER



DETAIL A: PLYWOOD / FLANGED CHANNEL POSTS

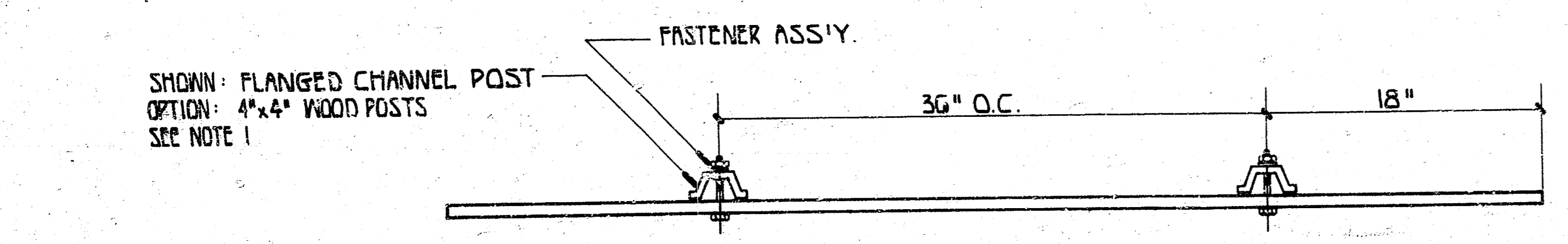


DETAIL B: PLYWOOD / 4x4 WOOD POSTS

NOTES

- MATERIALS:** THE SIGN SHALL BE MANUFACTURED FROM BACKING MATERIALS COMPOSED OF (1.) METAL: 10 GA. STEEL OR 0.150" THK. FLAT SHEET ALUMINUM; (2.) 3/4" EXTERIOR TYPE FIR PLYWOOD.
THE SIGN POSTS SHALL BE (1.) FLANGED CHANNEL POSTS - 3 LBS. PER FOOT OR; (2.) 4"x4" COMMERCIAL GRADE, TREATED WOOD SIGN POSTS.
- COLOR:** THE FRONT, BACK, AND ALL EDGES OF THE SIGN SHALL BE PAINTED ONE COAT OF WHITE PRIMER TO BE FOLLOWED BY TWO COATS OF SEMI-GLOSS WHITE ENAMEL. ALL ENAMEL PRINTS SHALL BE DRABBLE AND OF EXTERIOR QUALITY. WHITE: SIGN BLANK; BLACK: LEGEND.
- LEGEND AND INTERLINE SPACING:** ALL LEGEND SHALL BE "SERIES 'C' ALPHABET AS IS SPECIFIED IN THE STANDARD ALPHABETS FOR HIGHWAY SIGNS PUBLICATION. INTERLINE SPACING SHALL BE AS SPECIFIED ON THE LAYOUT WITH EXCEPTION OF LINES 4 & 5. USE APPROPRIATE LETTER SERIES TO CENTER VARIABLE LENGTH PROJECT TITLE AND PROJECT LIMITS DESCRIPTION ON LINES 4 & 5 RESPECTIVELY. LEGEND SHALL BE BLACK ENAMEL.
- HARDWARE:** ALL BOLTS, NUTS, AND WASHERS SHALL BE ELECTROPLATED WITH ZINC OR CADMIUM. SEE DETAIL 'A' AND 'B'.
- LOCATION OF SIGNS:** SIGNS SHALL BE ERECTED WITHIN THE STREET RIGHT-OF-WAY AT LOCATIONS AS DESIGNATED ON THIS SHEET OR, AS DIRECTED BY THE FIELD ENGINEER. THE SIGN SHALL FACE APPROACHING TRAFFIC AND BE LOCATED SO AS NOT TO OBSCURE OR DETRACT FROM THE EFFECTIVENESS OF OTHER OFFICIAL STREET SIGNING AND MARKERS OR OBSTRUCT THE VISION OF MOTORISTS. SIGNS SHALL BE ERECTED IN ADVANCE OF ISSUING WORK ORDER.
- THE CONTRACTOR SHALL SUPPLY ALL SIGN CONSTRUCTION MATERIALS AND SHALL BE RESPONSIBLE FOR ITS FABRICATION, INSTALLATION, MAINTENANCE, AND REMOVAL.**
- THE 14" DIA. CITY SEAL MAY BE PURCHASED FROM THE DEPARTMENT OF ENGINEERING, CITY OF WICHITA.**
- PRIOR TO SIGN FABRICATION, THE CONTRACTOR SHALL CONTACT THE CHIEF ENGINEER, DEPT. OF ENG., TO OBTAIN THE REQUIRED INFORMATION FOR SIGN LEGEND.**
- ONLY THE TYPE(S) OF WORK CONTRACTED WILL APPEAR ON INDIVIDUAL PROJECT SIGNS. ALL OTHER TYPES OF CONSTRUCTION NOTED ON LAYOUT WILL BE OMITTED. THE CONSTRUCTION CONTRACTED WILL BE POSITIONED ON LINE 'D' VERTICALLY, AND HORIZONTALLY AS DIMENSIONED ON LAYOUT.**
EXAMPLE: IF THE PROJECT IS FOR PAVING ONLY; THE WORD "PAVEMENT" AND "CONTRACTOR'S NAME" ARE ALL THAT ARE PRINTED AS DESCRIBED ABOVE. THE WORDS "BRIDGE" AND "SEWER" ARE OMITTED FROM THE SIGN.
WHERE TWO TYPES OF WORK ARE CONTRACTED, THEY SHALL BE POSITIONED ON LINES 6 & 7 VERTICALLY, AND AS DIMENSIONED ON LAYOUT HORIZONTALLY.
"PROJ. COST" AND DOLLAR AMOUNT WILL BE POSITIONED AS SHOWN ON LAYOUT.

78/10



LINE 4: CENTER AND ADJUST TO FIT (VARIABLE PROJECT TITLE) 5" UC
LINE 5: " " " (VARIABLE PROJECT LIMITS DESCRIPTION) 2" UC

C 1-3/8 A	1-3/8 B	1-3/8 C	1-3/8 D	1-3/8 E	1-3/8 F	1-3/8 G	1-3/8 H	1-3/8 I	1-3/8 J	1-3/8 K	1-3/8 L	1-3/8 M	1-3/8 N	1-3/8 O	1-3/8 P	1-3/8 Q	1-3/8 R	1-3/8 S	1-3/8 T	1-3/8 U	1-3/8 V	1-3/8 W	1-3/8 X	1-3/8 Y	1-3/8 Z	3" UC	
S 3/8 T	3/8 A	3/8 B	3/8 C	3/8 D	3/8 E	3/8 F	3/8 G	3/8 H	3/8 I	3/8 J	3/8 K	3/8 L	3/8 M	3/8 N	3/8 O	3/8 P	3/8 Q	3/8 R	3/8 S	3/8 T	3/8 U	3/8 V	3/8 W	3/8 X	3/8 Y	3/8 Z	2 1/2" UC
C 1-3/8 A	1-3/8 B	1-3/8 C	1-3/8 D	1-3/8 E	1-3/8 F	1-3/8 G	1-3/8 H	1-3/8 I	1-3/8 J	1-3/8 K	1-3/8 L	1-3/8 M	1-3/8 N	1-3/8 O	1-3/8 P	1-3/8 Q	1-3/8 R	1-3/8 S	1-3/8 T	1-3/8 U	1-3/8 V	1-3/8 W	1-3/8 X	1-3/8 Y	1-3/8 Z	2" UC	
S 3/8 T	3/8 A	3/8 B	3/8 C	3/8 D	3/8 E	3/8 F	3/8 G	3/8 H	3/8 I	3/8 J	3/8 K	3/8 L	3/8 M	3/8 N	3/8 O	3/8 P	3/8 Q	3/8 R	3/8 S	3/8 T	3/8 U	3/8 V	3/8 W	3/8 X	3/8 Y	3/8 Z	2" UC

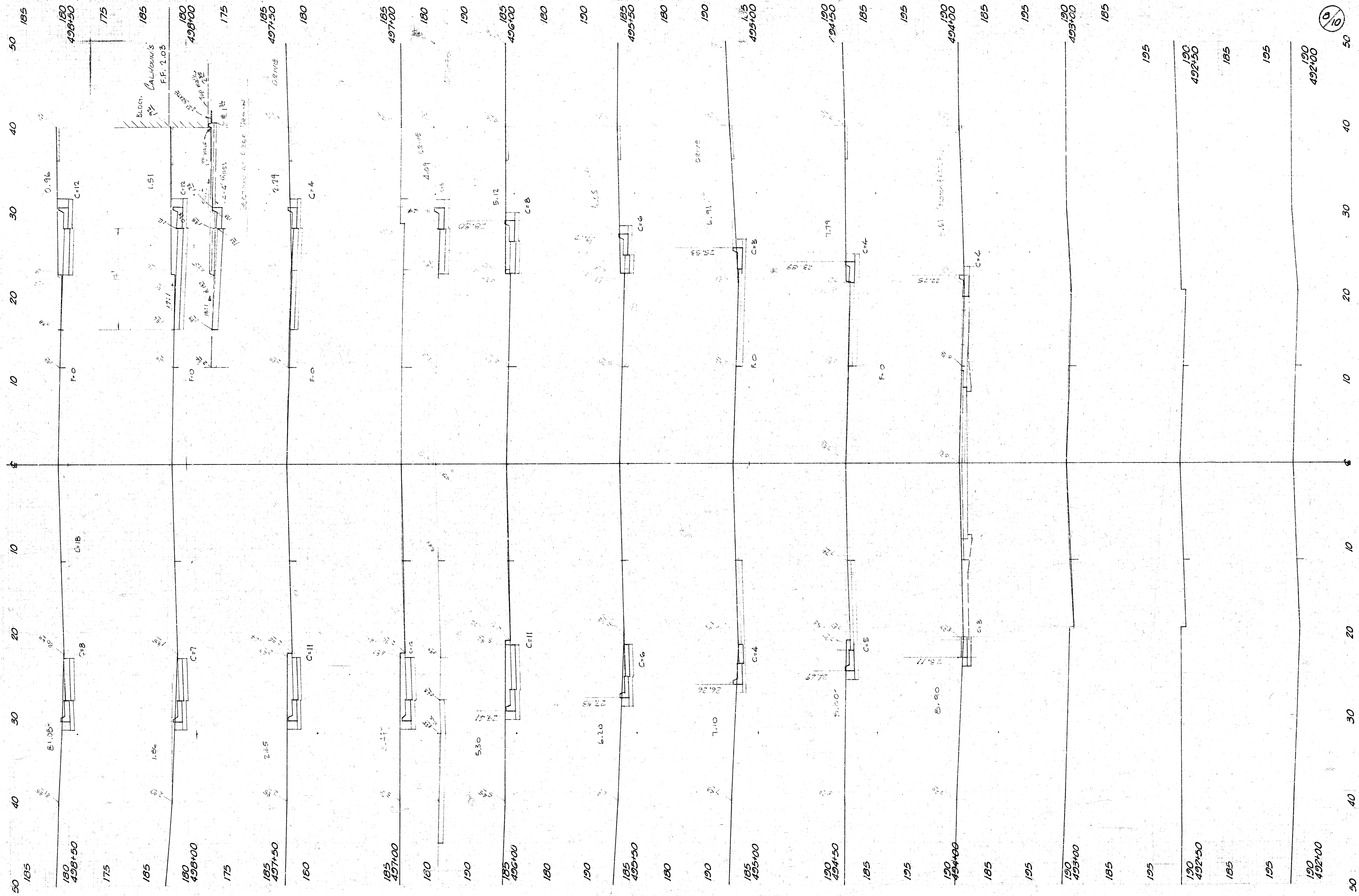
RT / LT OF CENTERLINE	STATION	LOCATION
Lt	2+92.50	Central
Rt	3+05.50	Central

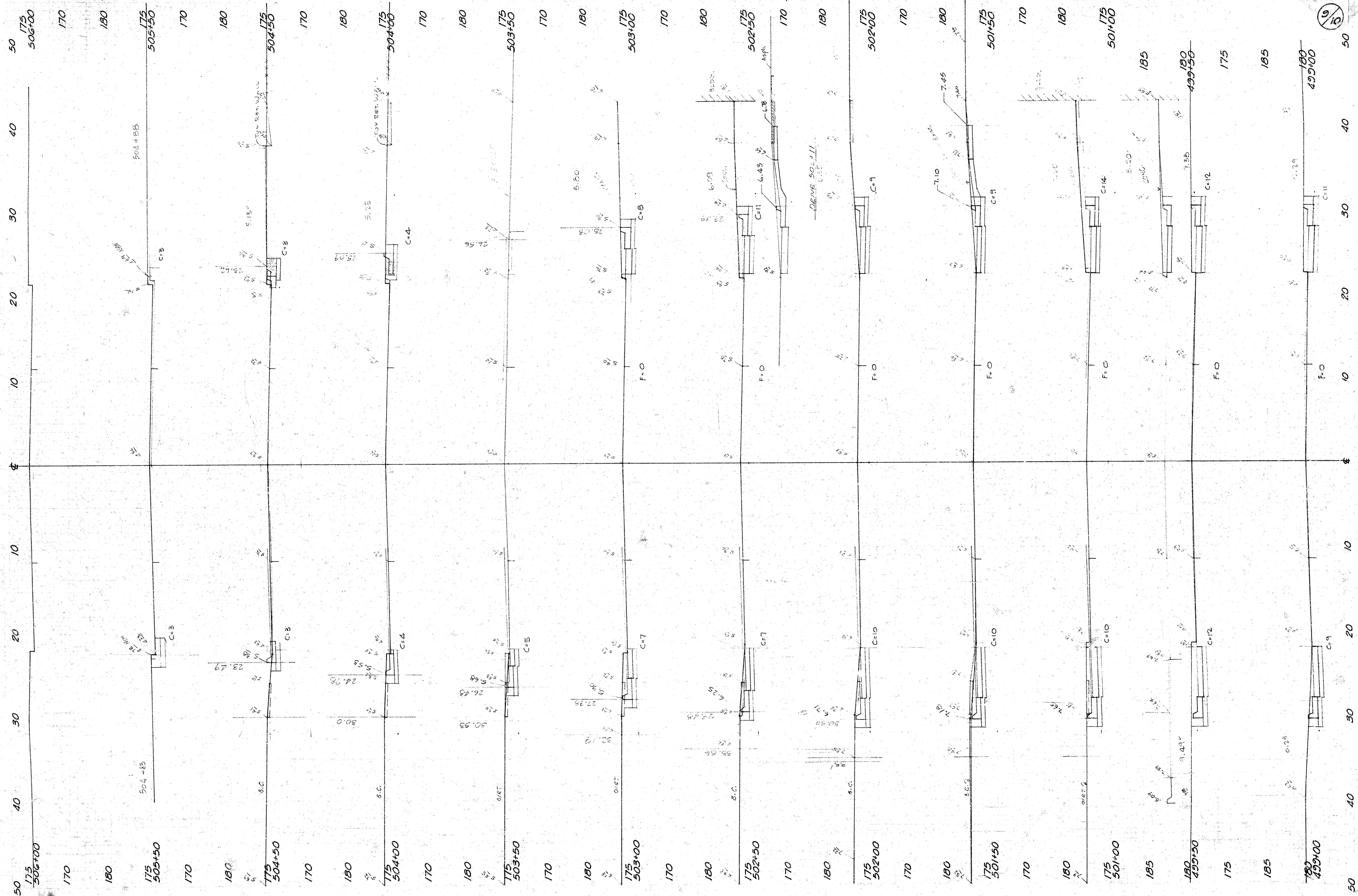
DO NOT SCALE: FOR INFORMATION ONLY

PROJECT CONSTRUCTION SIGN LAYOUT DETAILS

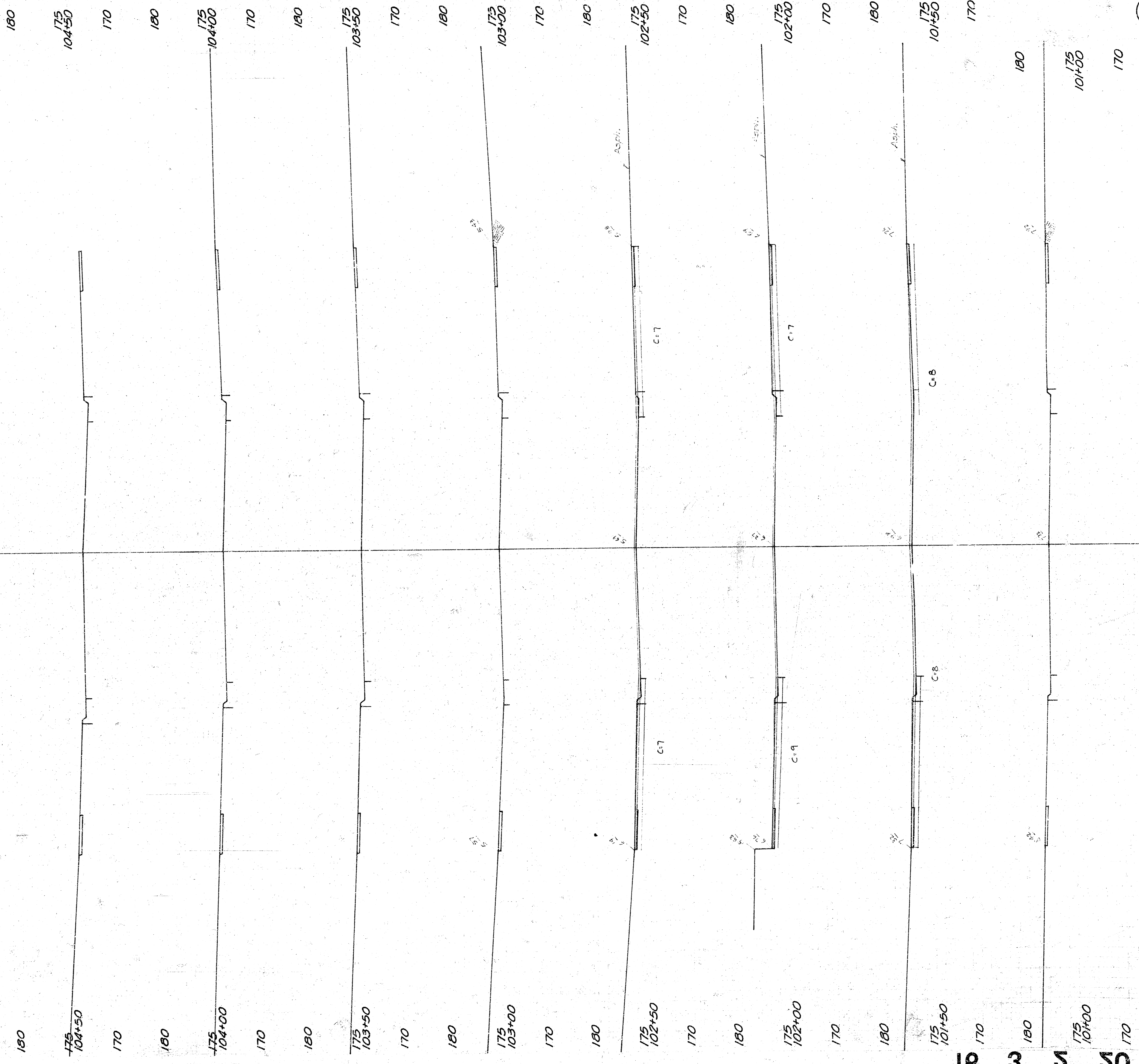
DEPARTMENT OF ENGINEERING
CITY OF WICHITA

TRAFFIC ENGINEERING SECTION DATE: 6/5/12
DRAWN BY: SEAL NO SCALE





50 40 30 20 10 0 10 20 30 40 50



10/10

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