

# MAIN STORM WATER DRAIN # 8 - PHASE II

WITHIN I-35W R/W & FROM EL. LOT 39, PARKMORE 2<sup>ND</sup> ADDN. TO HILLSIDE

CITY OF WICHITA, KANSAS

B. E. SMITH CITY ENGINEER

DATE: July ,1970 PROJECT No:

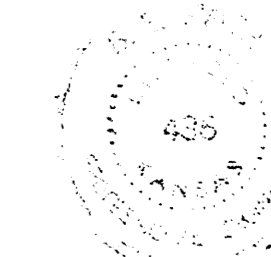
## GENERAL NOTES:

1. All elevations refer to City Datum.
2. "Preparation and Clean-up" shall be a lump sum pay item and shall include all required or indicated post, stumps, tree, sheeling, foot bridge, manhole and debris removal; removal and replacement of barricade, clothes line and damaged walks and drives as required; and the reshaping and reseeding of disturbed areas to the quality of the original. Any damaged trees shall have damaged areas pruned and wounds coated with pruning paint.
3. Sewer construction shall conform to "Details of Sewer Appurtenances" adopted as std. design by Engineering Division, City of Wichita, 1964. Manholes shall be "Standard Manhole, Type A," 8" inch sewer construction shall be by "Ordinary Bedding Methods For Clay Pipe," 8" inch sewer concrete encasement shall be "Reinforced Concrete Encasement", and 15" inch pipe (RCP) installation shall be by "Ordinary Bedding Methods for Reinforced Concrete Pipe." Std 2'x5' inlet shall conform to City of Wichita Detail Plan dated Sept. 1965.
4. Street construction shall conform to Std. Section for the City of Wichita.
5. Class A-AE Concrete shall be used for RCB throughout.
6. 8" inch CMP with Flapgate shall be a pay item and includes a 6" to 9" length of 16-gauge AASHTO M-36-60 8" CMP and one ARMCO Model IOC Flapgate or approved equal. The unit shall be factory assembled. The spigot back of gate shall be embedded in the concrete wall, the free pipe end shall be cut flush with wall surface, and concrete forms shall recess walls as required for proper operation of gate link.
7. All Bench Marks damaged or destroyed shall be completely removed and replaced at an adjacent location by the field engineer and so noted on the "as built" plans. The new bench mark will be located so the date of the original Bench Mark could not be mistaken for the new bench mark.
8. Any temporary easement required for construction will be obtained by the Contractor.
9. For fence specifications see sheet 8.

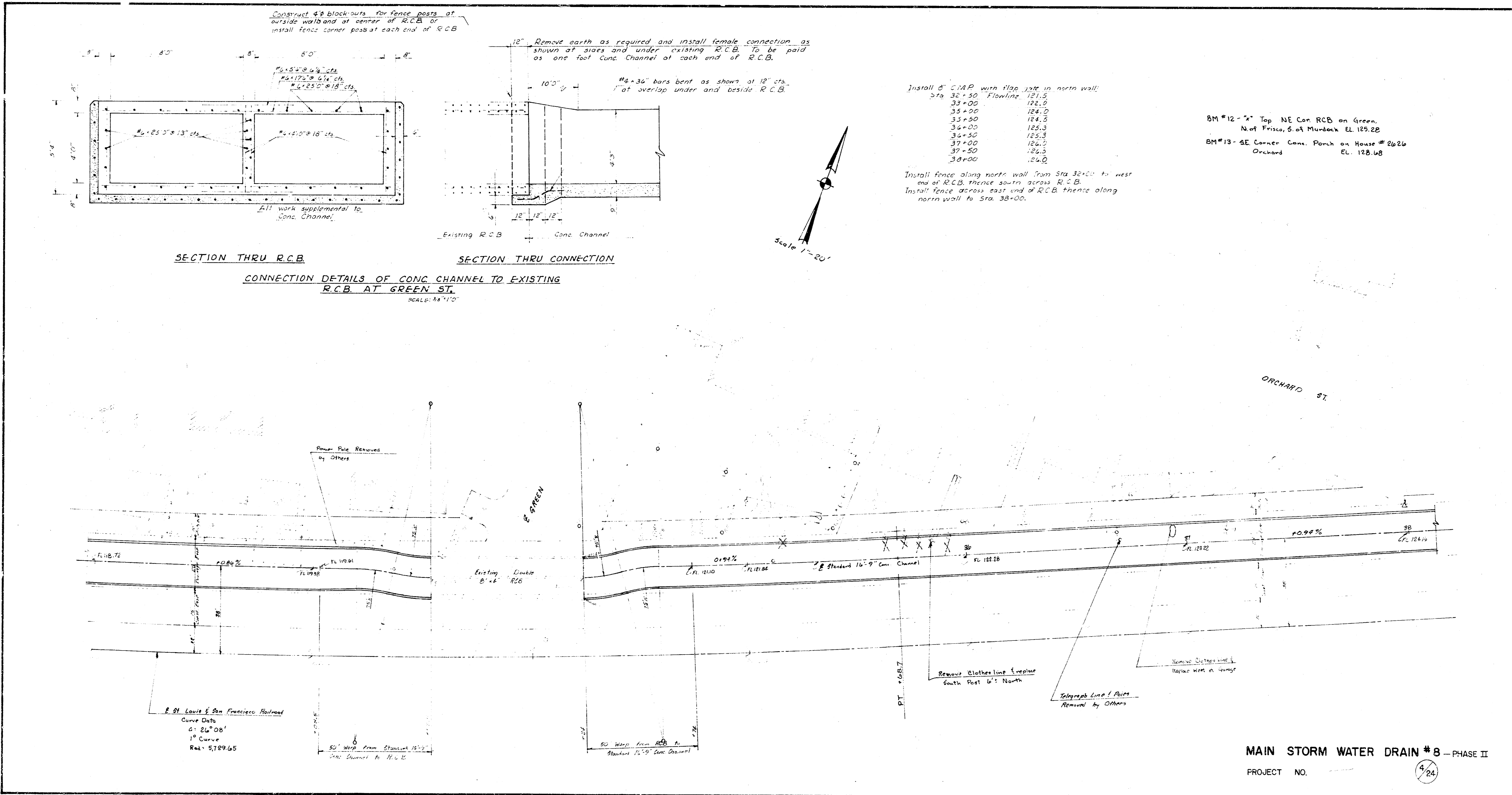
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CAS - 11/11/70





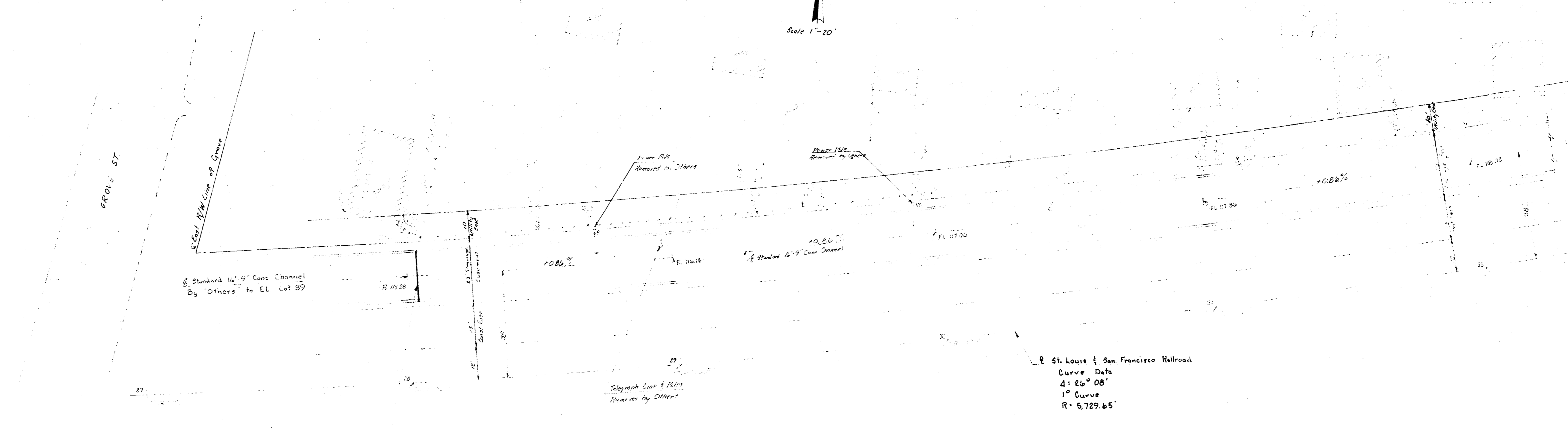
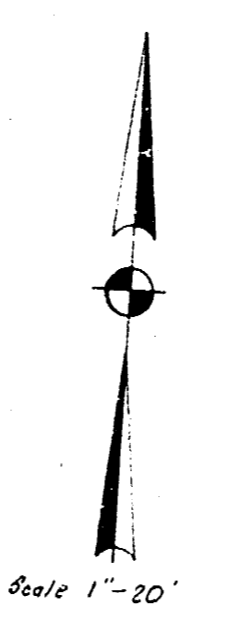


BM #10 - 6" cut in NW Cor of West headwall RCB  
 on Gravel N of Frisco, S of Murdoch EL 121.27  
 BM #11A - 60 penny spike, 6" face PP, N of Frisco on  
 W. Poplar EL 121.22

Install 6" C&P with flap gate in north wall:

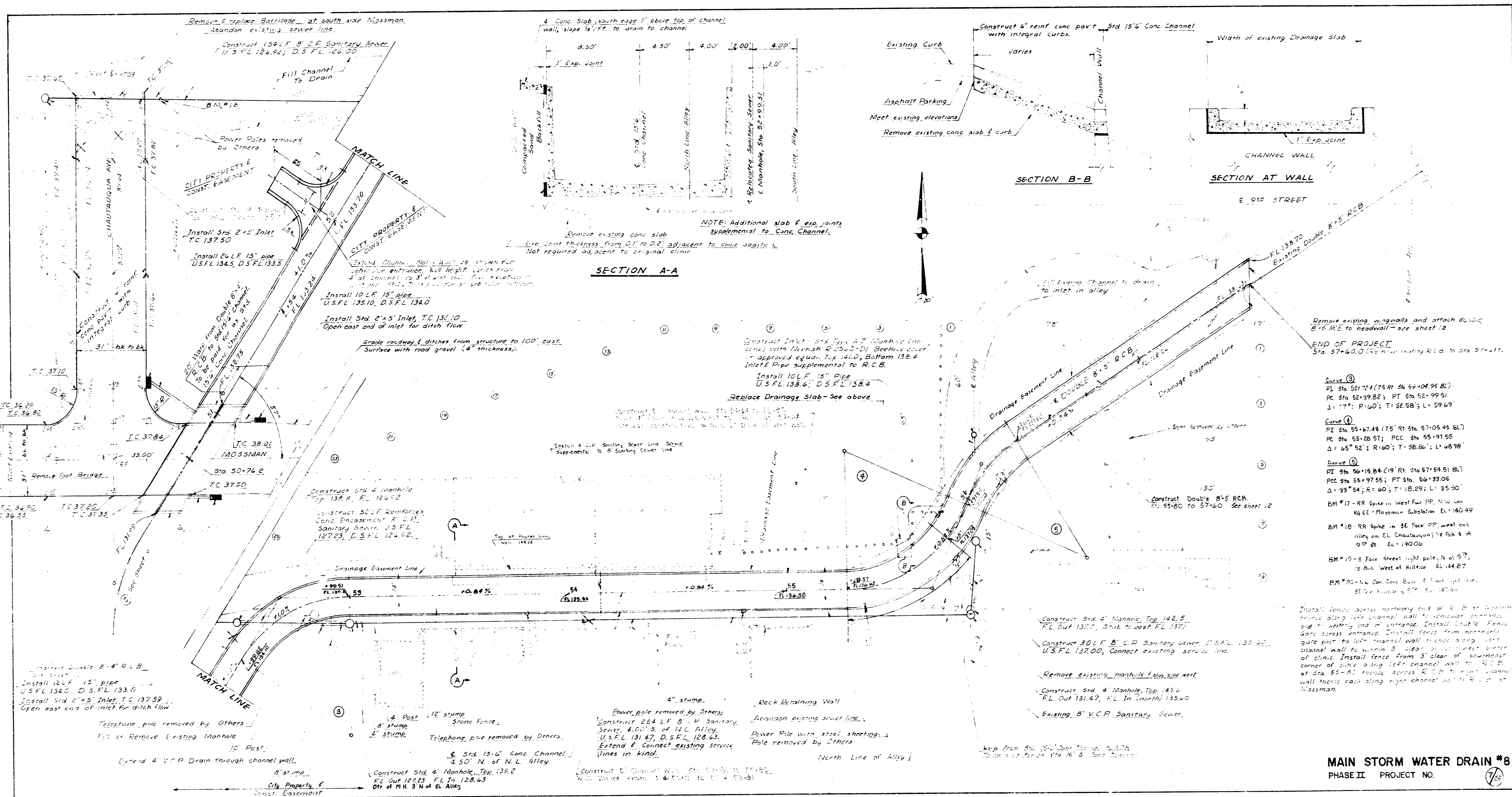
Sta.	Flowing	EL
29+50	Flowing	121.3
30+00		120.5
30+50		120.5
31+00		120.5
31+50		120.5
32+00		121.0

Install fence along north wall Sta 28+04 to Sta 32+00  
 (Connect fence at Sta 28+04 to fence installed in Phase I)









CORNER, PULL, OR GATE POSTS OF THE SAME SIZE AS END POSTS SHALL BE INSTALLED AT CORNERS, AT 50' MAXIMUM CENTERS, AT PC AND PT OF CURVES AND AT INTERSECTION OF CHANNEL WALL AND VEHICULAR ENTRANCE WALL. FABRIC FOR FENCE LOCATED WITHIN RAILROAD CURVE, CHANNEL CURVE OR VEHICULAR ENTRANCE SHALL BE INSTALLED OUTSIDE OF THE CURVES SO FABRIC WILL PULL TOWARD POSTS RATHER THAN AWAY FROM POSTS. THE DOUBLE FENCE GATE TO HAVE FRAME AND FABRIC SAME AS FENCE AND SHALL COME COMPLETE WITH HINGES, BRACE ROD, TRUSS ROD AND LATCH ASSEMBLY. FRAME TO BE 1-5/8" O.D. TUBULAR MATERIAL. TOTAL CLEAR OPENING OF GATES TO BE 11-FOOT OR AS REQUIRED WITH GATE POSTS AT ENTRANCE WALL.

15'-6"  
16'-9"

(5'-0" where noted on plans)

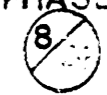
(5'-0" where noted on plans)

16'-8"

LINE IS ON A 5,691.65' RADIUS  
CURVE. CURVE SEGMENTS TO BE 50' MAXIMUM.

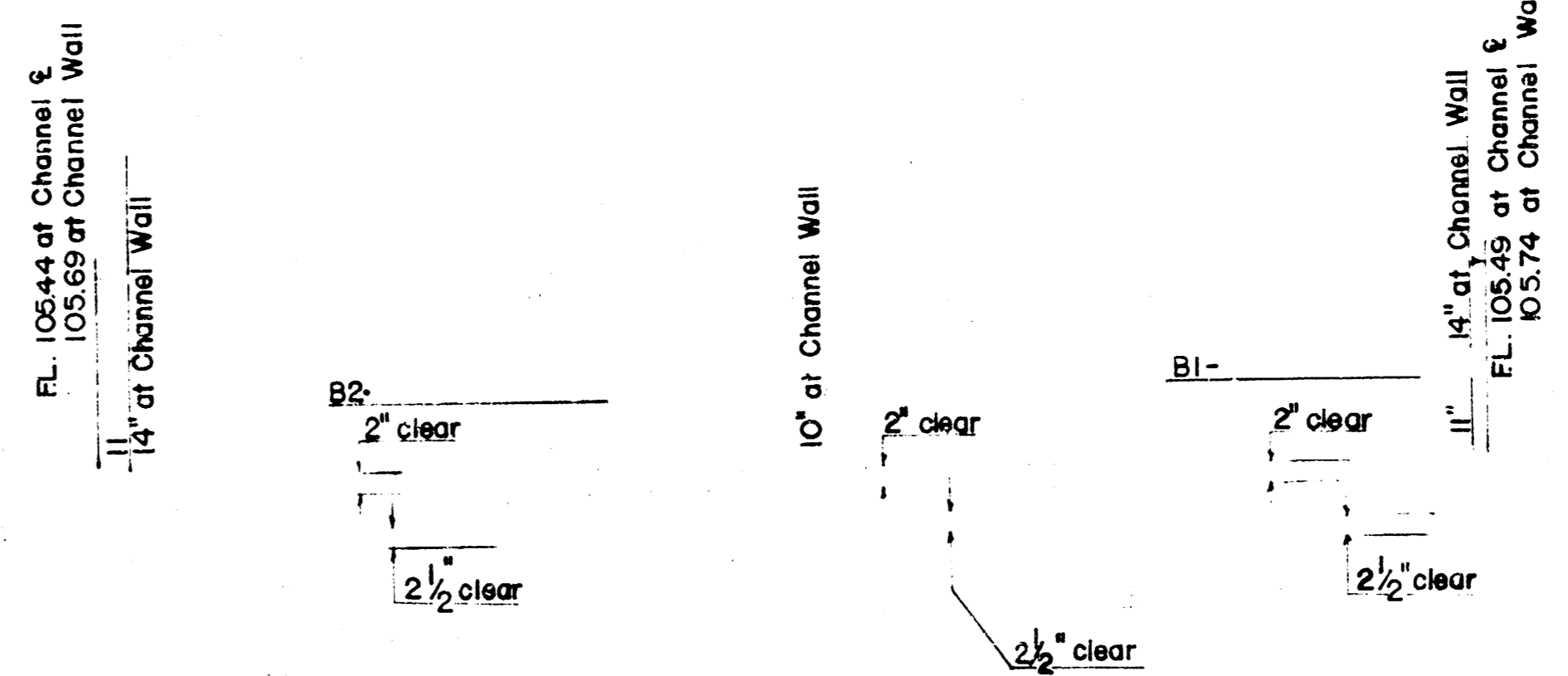
AT GREEN ST.

MAIN STORM DRAIN #8 - PHASE II  
PROJECT NO. C



**NOTE:** Special section over sewer to include all costs for constructing complete 18-foot special section including walls. Bid price shall be Lin.Ft. of 24'-0" Conc. Channel Measured on Center Line.

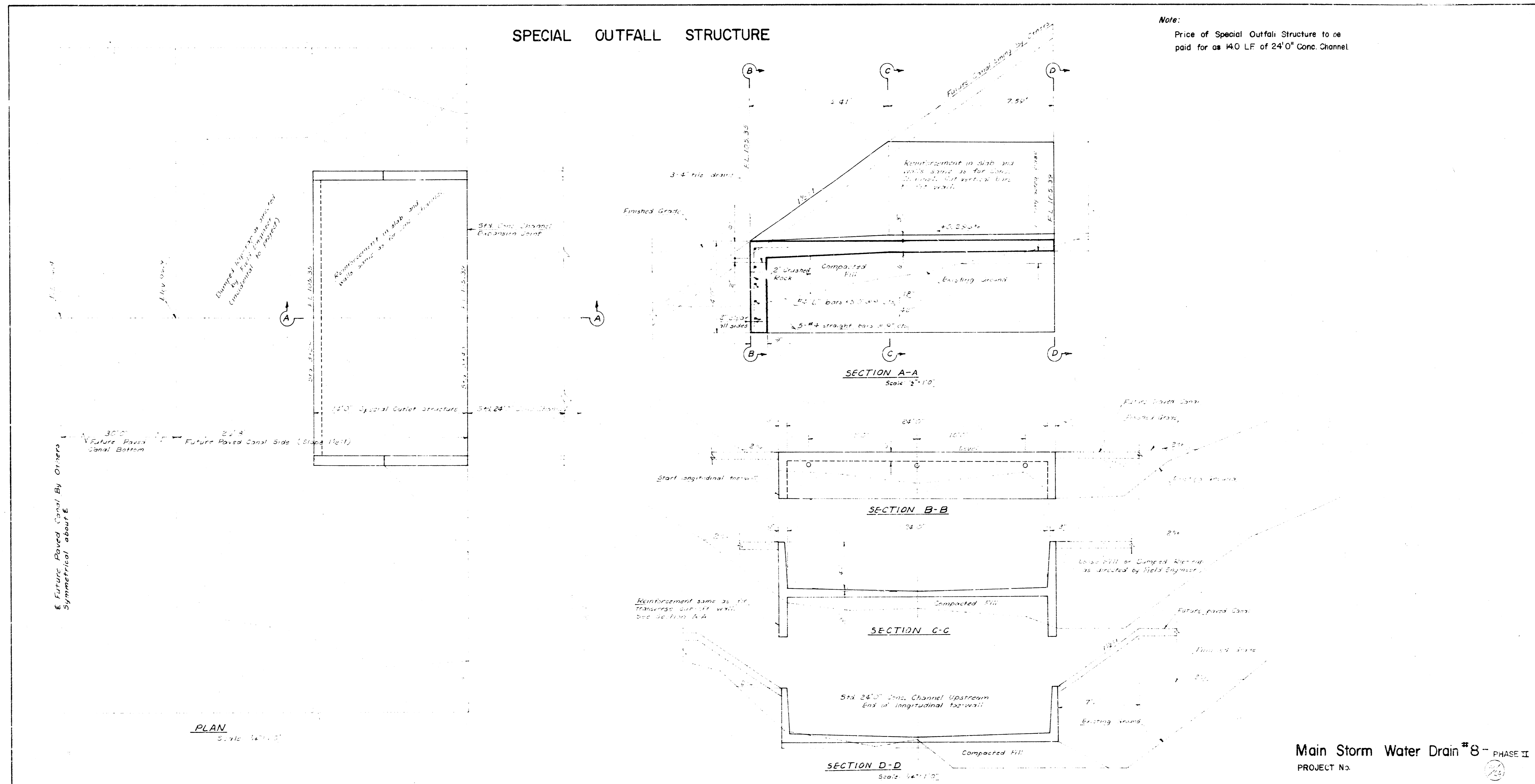
**Note:** For Channel Walls see Typical Section on sheet 6. Provide Compacted Base for typical channel section except for 6' strip over existing sewer where such an operation may damage said sewer.



Bottom steel in slab  
Top steel in slab

**SPECIAL OUTFALL STRUCTURE**

**Note:**  
Price of Special Outfall Structure to be paid for as 140 LF of 24" Conc. Channel

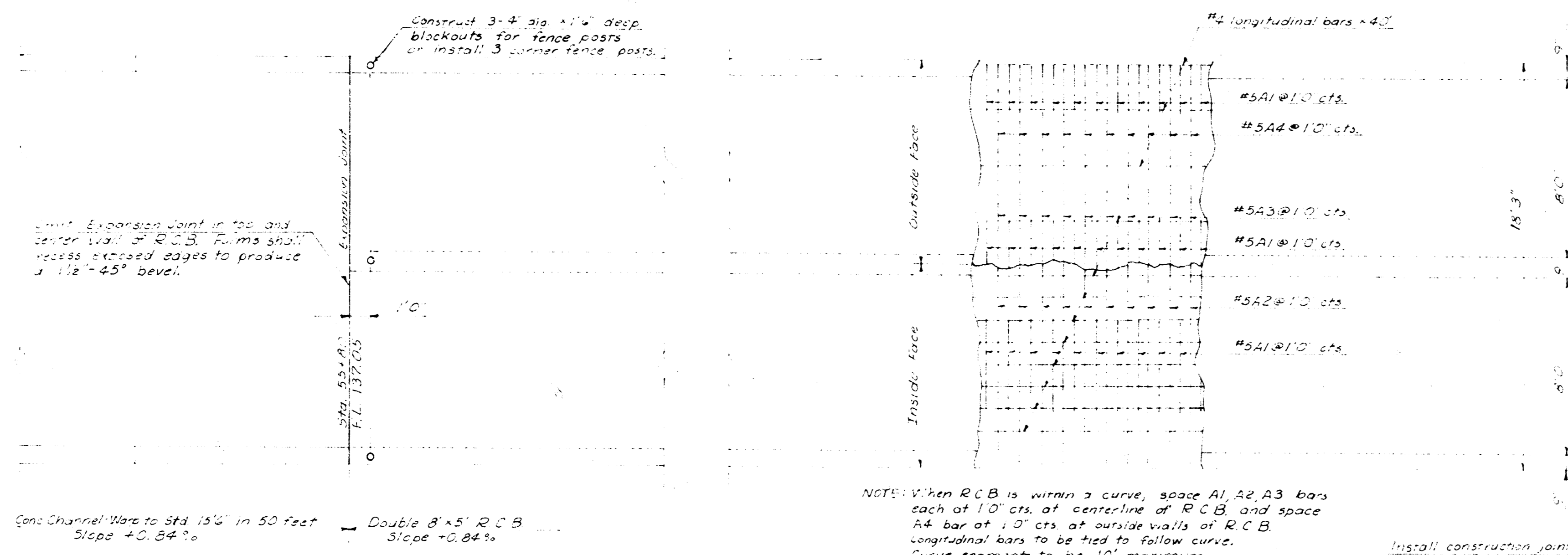


Main Storm Water Drain #8 - PHASE II  
PROJECT NO. 24



**DOUBLE 8'x5' R.C.B. DETAIL**

SCALE: 3/8"=1'-0"

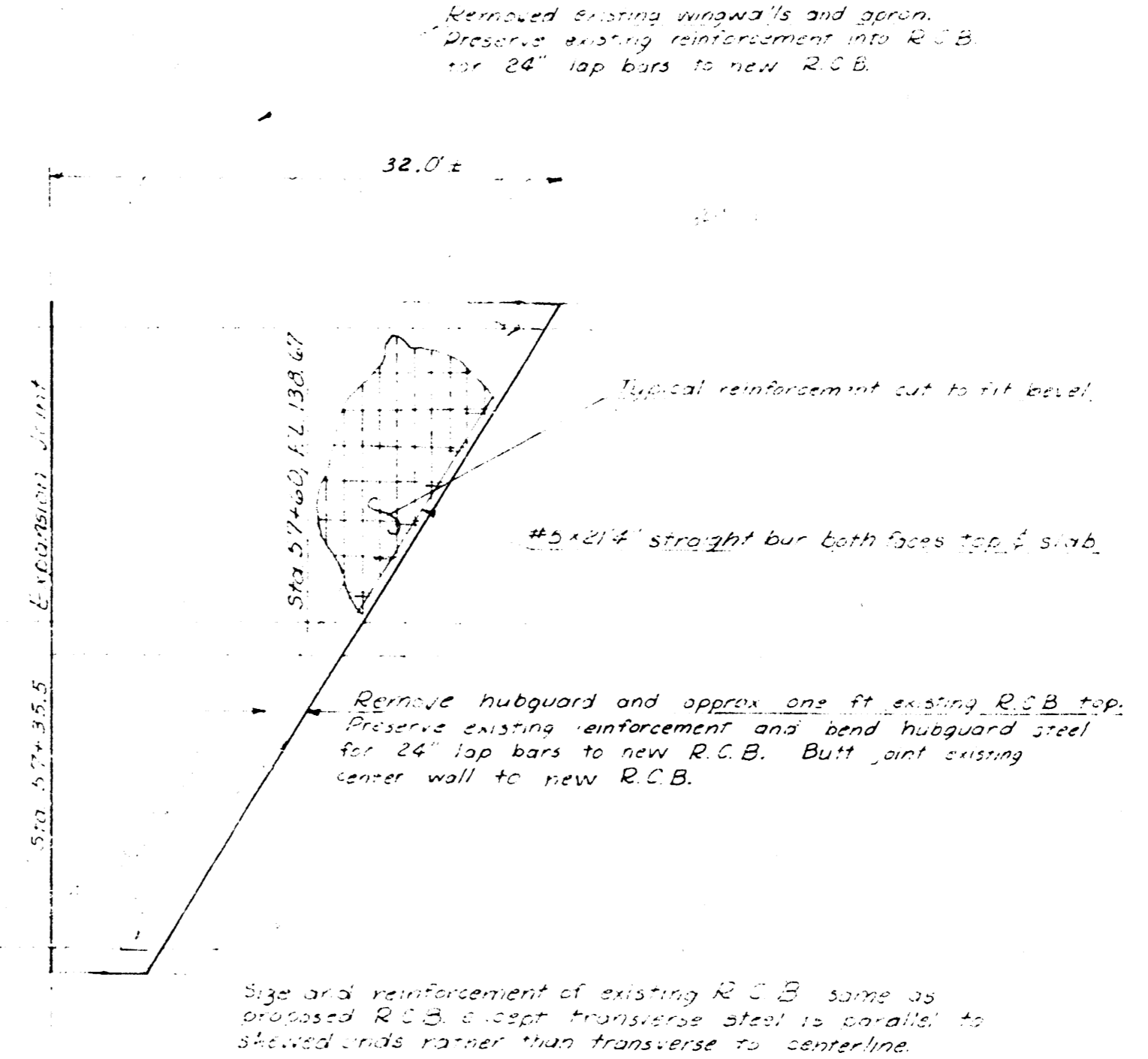


Cont. Channel Ware to Std. 150" in 50 feet  
Slope +0.04%

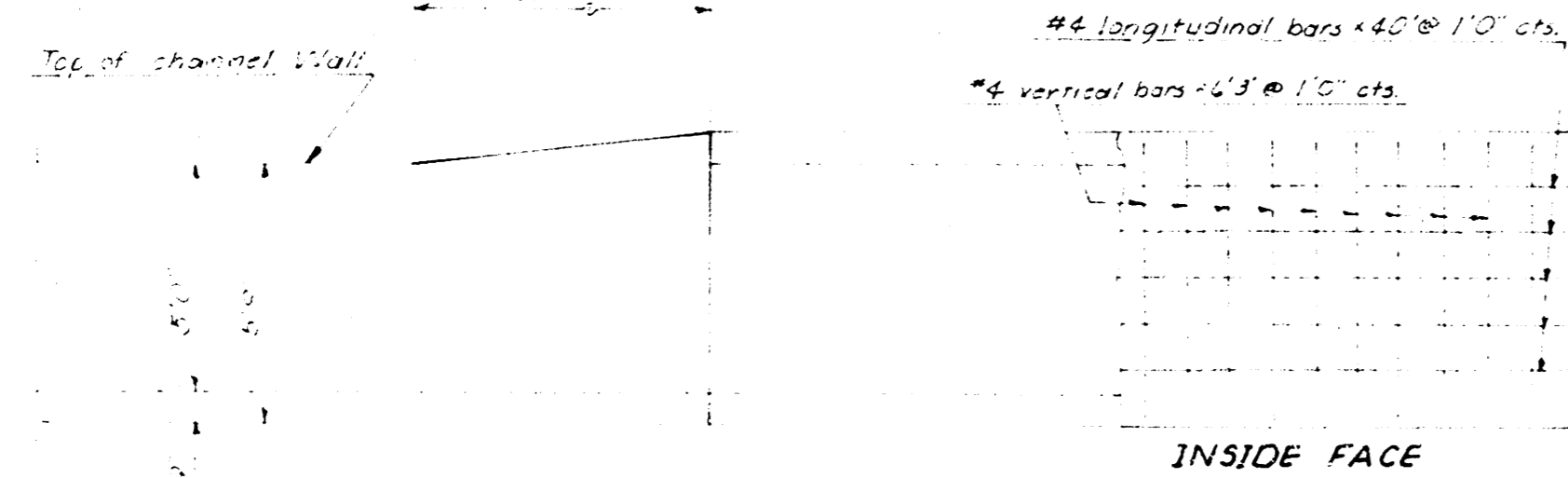
Double 8'x5' R.C.B.  
Slope +0.04%

NOTE: When R.C.B. is within a curve, space A1, A2, A3 bars each at 1'-0" cts. at centerline of R.C.B. and space #4 bar at 1'-0" cts. on outside walls of R.C.B. longitudinal bars to be tied to follow curve. Curve segments to be 10' maximum.

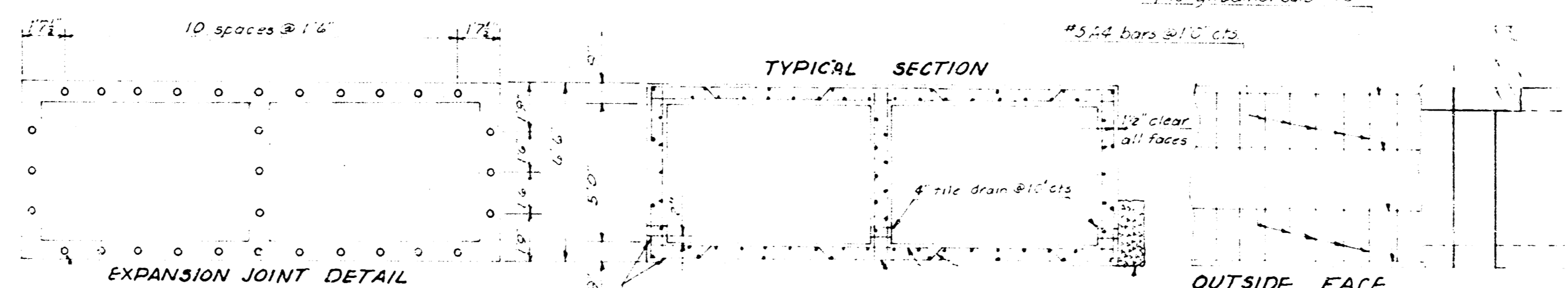
Install construction joints at Sta 34+20, Sta 34+27 and Sta 34+37. Lap longitudinal bars 1'-0" at joints. Where bars are located on outside of curve and short for a 1'-0" lap, splice (lap 1'-6" additional length) required for 1'-0" lap at joints.



Size and reinforcement of existing R.C.B. same as proposed R.C.B. except transverse steel is provided sheaved ends rather than transverse to centerline.



INSIDE FACE



TYPICAL SECTION

OUTSIDE FACE

Length of R.C.B. @ 18' LF.  
Concrete: 1.431 CY per foot.  
Re-bars: 121.32 lbs. per foot (does not include lap bars nor header bars at existing R.C.B.)

Price of Double 8'x5' R.C.B. shall be measured in linear foot along centerline and shall include removal of and attaching to existing structure, concrete, reinforcement bars, paving joints, offset inlet pipe, and all appurtenances necessary to complete facility as shown within the plans. Earthwork is a separate pay item.

EXPANSION JOINT DETAIL  
#4 #24" smooth bars coated with hard grease and capped on one end. Centerline of bar must be parallel line of grade of R.C.B.  
Expansion Joint Material shall be either Redwood Board 1/2" in thickness or preformed Asphaltic Material 3/4" in thickness.

#5A1 #10 cts. Alternate with A1 bar.  
#5A2 #10 cts. Alternate with A1 bar.  
#5A3 #10 cts. Symmetrical about centerline. Alternate with A1 bar.  
All vertical bars are #4 #3" straight bars @ 10' cts. Alternate with #4 bars in outside walls. Alternate faces in center wall.  
All longitudinal bars are #4 #40" straight bars @ 10' cts. as shown.

