

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER
STORM WATER SEWER NO. 378

IN

BARRINGTON CORNER

CITY OF WICHITA PROJECT NO. 468-76-245-81911-000-000-001
INDEX NO. 750679

INDEX OF SHEETS

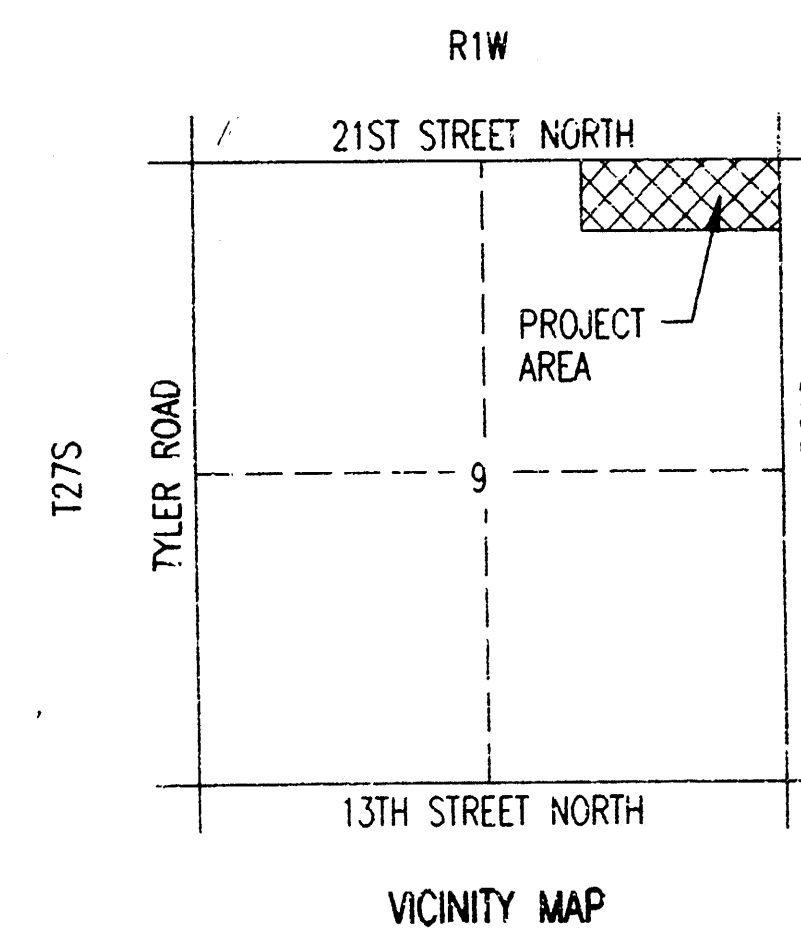
1. TITLE SHEET
2. PLAT
- 3.-5. PLAN AND PROFILE - LINE NO. 1
5. PLAN AND PROFILE - LINE NO. 2
6. TYPE 27 CURB INLET
7. SPECIAL R.C. HEADWALL AND R.C. MANHOLE DETAILS
8. MISCELLANEOUS DETAILS
9. MANHOLE FRAME AND COVER DETAILS

PROJECT SURVEY CONTROL

DATUM BENCH MARK: RAILROAD SPIKE IN SOUTHWEST FACE POWER POLE AT
NORTHEAST CORNER 21ST STREET NORTH/RIDGE ROAD.
ELEV.=143.38 CITY DATUM

BENCH MARK: CHISELED "C" ON EAST HEADWALL STORM DRAIN INLET IN
SOUTH DITCH 21ST STREET NORTH 600' WEST OF RIDGE ROAD.
ELEV.=141.83 CITY DATUM

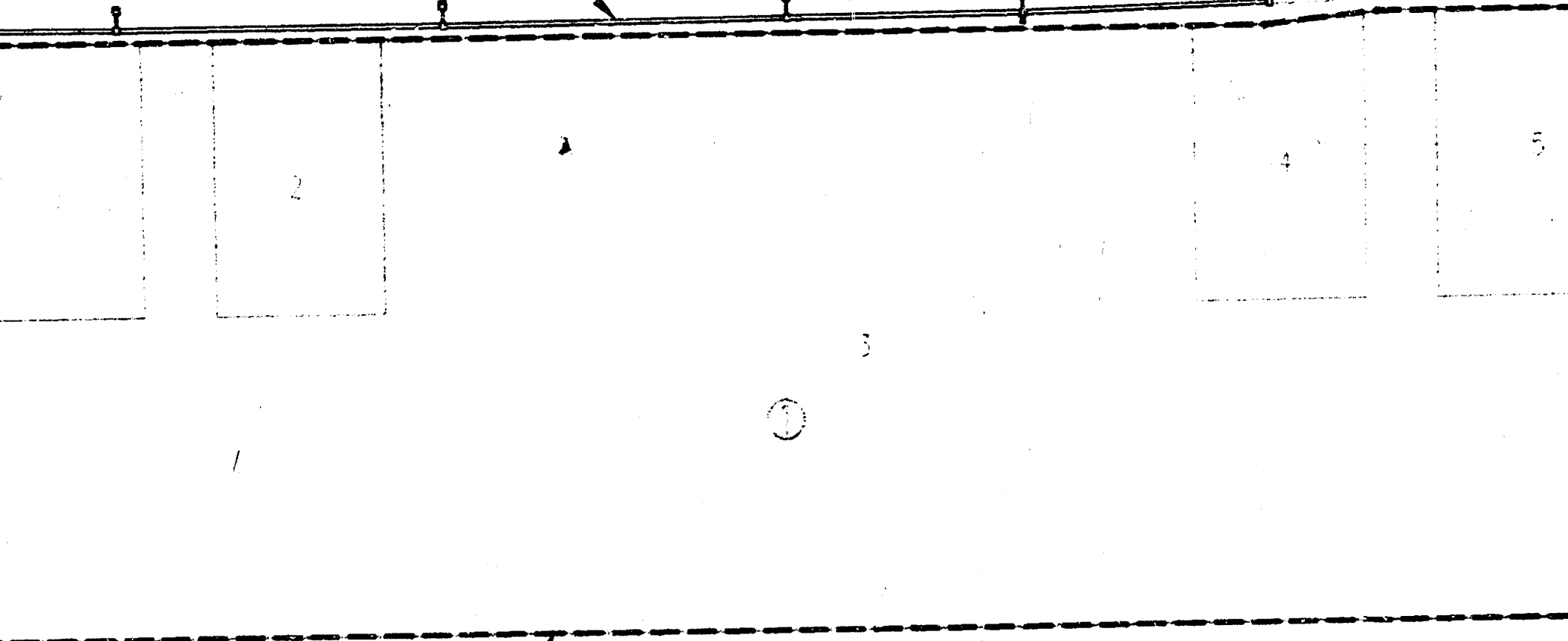
BENCH MARK: RAILROAD SPIKE IN NORTH FACE POWER POLE 410' SOUTH AND
40' WEST OF THE INTERSECTION OF THE CENTERLINES OF 21ST
STREET NORTH AND RIDGE ROAD. ELEV.=144.90 CITY DATUM



SWS LINE NO. 1

SWS LINE NO. 2

21ST STREET NORTH



IMPROVEMENT DISTRICT
BOUNDARY

SCALE: 1" = 150'

BOOKED
3-12-96
MEL
D-281



AUGUST, 1995

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

GENERAL NOTES

UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO BIDDING.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

EXCESS EXCAVATED MATERIAL AND EXCESS TOPSOIL SHALL BE STOCKPILED OR WASTED WITHIN THE PLAT LIMITS. THE CONTRACTOR SHALL CONTACT THE OWNER'S ENGINEER AT 262-2691 FOR INFORMATION PERTAINING TO THE ACCEPTABLE LOCATIONS FOR THE DISPOSITION OF EXCESS MATERIAL. WASTE MATERIAL SHALL BE GRADED SMOOTH AND SLOPED TO DRAIN. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.

CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470. TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: K.C.&E. GAS, K.G.&E. ELECTRIC, SOUTHWESTERN BELL TELEPHONE, MULTIMEDIA CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT. ALSO MR. MARK BORST, P.E. AT SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES (383-7901) FOR TRAFFIC SIGNAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER. THIS WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.

THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE PROJECT LIMITS A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.

PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHTS-OF-WAY WHICH CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER AT THE TIME OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH NEW CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED AS SUBSIDIARY TO THE CONTRACT PAY ITEMS OF WORK.

CONTRACTOR SHALL MAINTAIN 2-LANE EAST BOUND TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN TRAFFIC CONTROL AND ADVANCE WARNING DEVICES AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

Sta. 10+00.0, Line No. 1=
 @ 21st St. N. Sta. 1098+04.50, 81.00' Rt.
 Const. Std. R.C. Manhole
 L=4'-6", W=6'-0", H=5'-9", Ht=0.69'
 Top Elev.=142.75
 Connect Existing 42" RCP (E)
 Install 214.6 L.F. 42" RCP (W)
 Install 13.6 L.F. 18" RCP (NW)
 See Sh. No. 7

CAUTION !!!
 Existing Water
 City of Wichita

Relocate Fire Hydrant
 Assembly to 74' Rt. @
 See Sh. No. 8

CAUTION !!!
 16" Water
 City of Wichita

Sta. 12+14.6, Line No. 1=
 @ 21st St. N. Sta. 1095+90, 86.00' Rt.
 Const. Std. R.C. Manhole
 L=4'-6", W=6'-0", H=6'-0", Ht=0.98'
 Top Elev.=143.71
 Install 210.0 L.F. 42" RCP (W)
 Install 16.9 L.F. 18" RCP (N)
 Install 9.0 L.F. 18" RCP (S) (Temp.)
 (Including End Section)
 See Sh. No. 7

Sta. 14+24.6, Line No. 1=
 @ 21st St. N. Sta. 1093+80, 87' Rt.
 Const. Std. R.C. Manhole
 L=4'-6", W=6'-0", H=6'-0", Ht=0.85'
 Top Elev.=144.20
 Install 300.0 L.F. 42" RCP (W)
 Install 16.6 L.F. 18" RCP (N)
 See Sh. No. 7

CAUTION !!!
 8" Gas Line
 K&E Gas

@ 21st St. N. Sta. 1093+80, 66.56' Rt.
 Const. Std. Type 22 Curb Inlet
 L=6'-0", W=4'-6", H=5'-0"
 Top Elev.=144.71
 E Out=140.60
 See Sh. Nos. 6 and 8

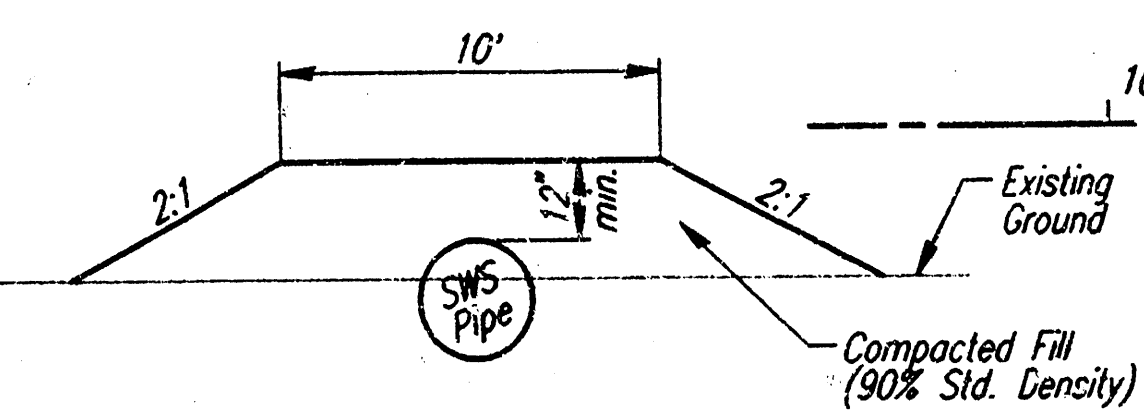
SCALE: 1"=20'

Remove Special Concrete Headwall
 Salvage Gate for use on Special
 Concrete Headwall at Sta. 21+54.6,
 Line No. 1

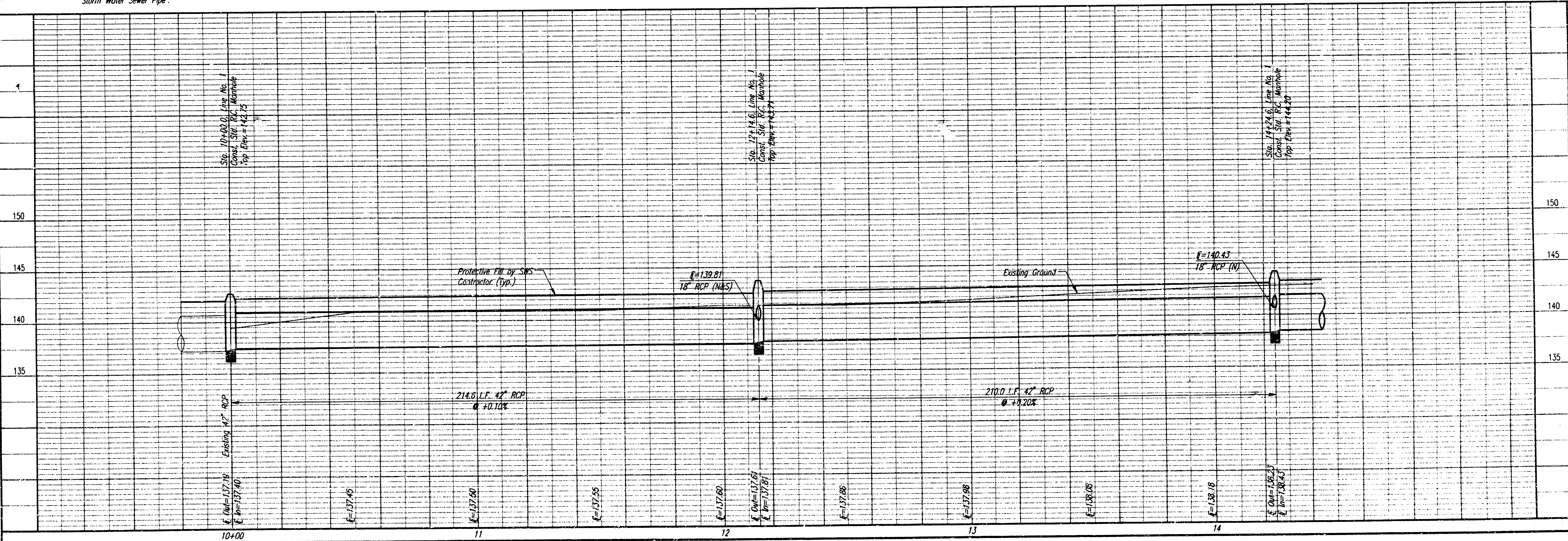
CAUTION !!!
 8" Gas Line
 K&E Gas

@ 21st St. N. Sta. 1095+90, 65.26' Rt.
 Const. Std. Type 22 Curb Inlet
 L=6'-0", W=4'-6", H=4'-3"
 Top Elev.=143.33
 E Out=139.99
 See Sh. Nos. 6 and 8

CAUTION !!!
 8" Gas Line
 K&E Gas



NOTE: PAVING IMPROVEMENTS TO BE CONSTRUCTED BY OTHERS
 UNDER C.O.W. PROJ. NO. 472-76-245-81958-000-000-001



STORM WATER SEWER NO. 378

LINE NO. 1
 STA 10+00.0 TO STA 14+24.6

C.O.W. PROJ. NO. 472-76-245-81958-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 WICHITA, KANSAS

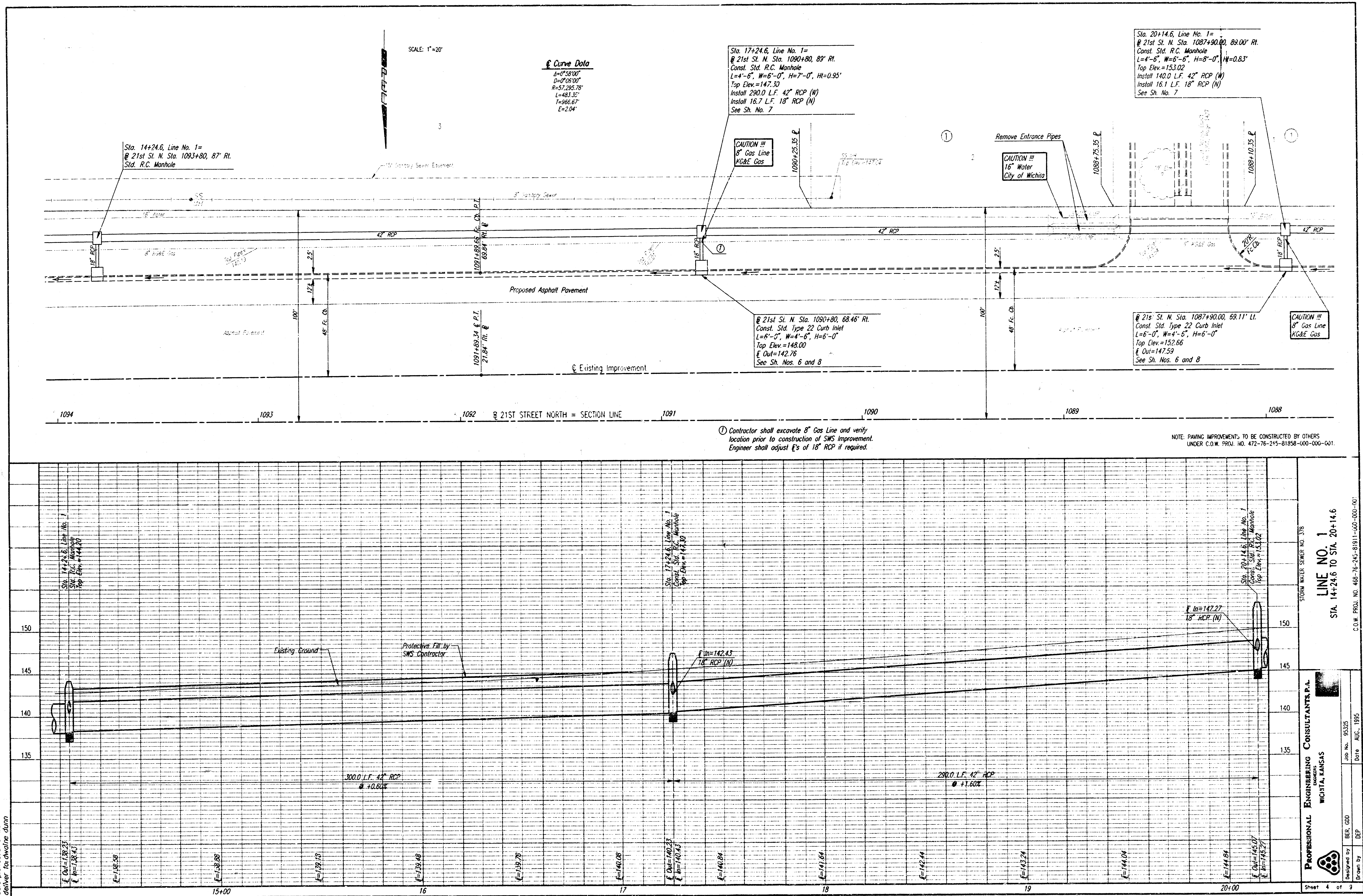
Job No. 95325
 Date AUG. 1995

Designed by BEJ:GD
 Drawn by DEP

Sheet 3 of 9

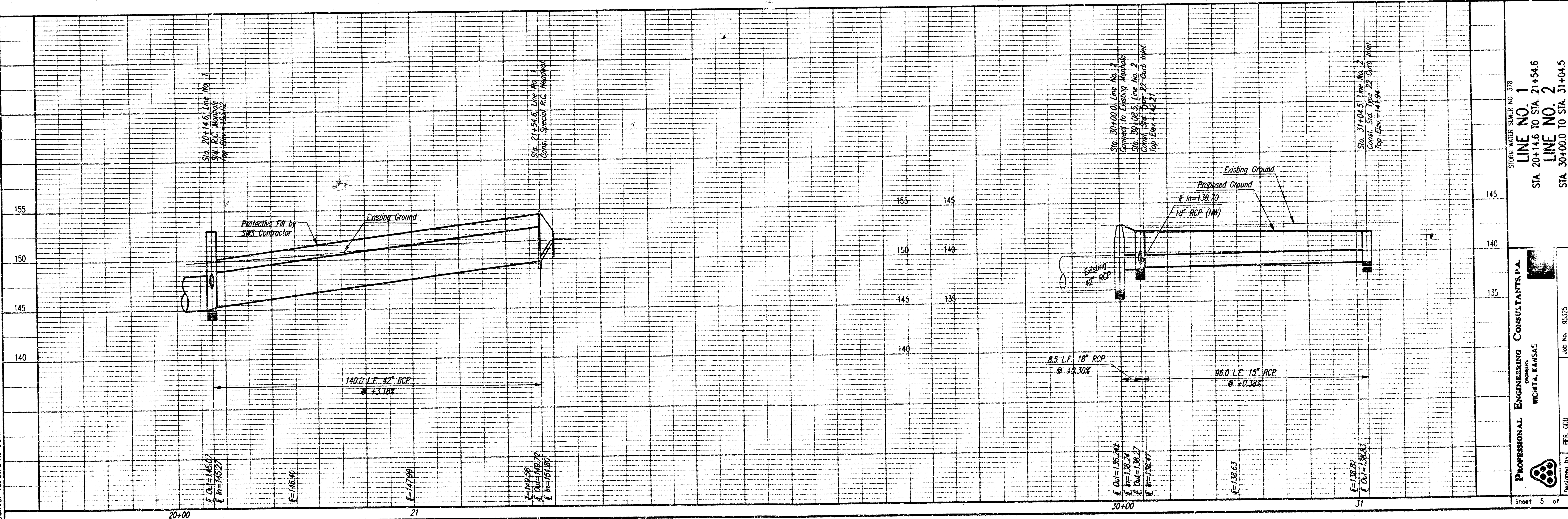
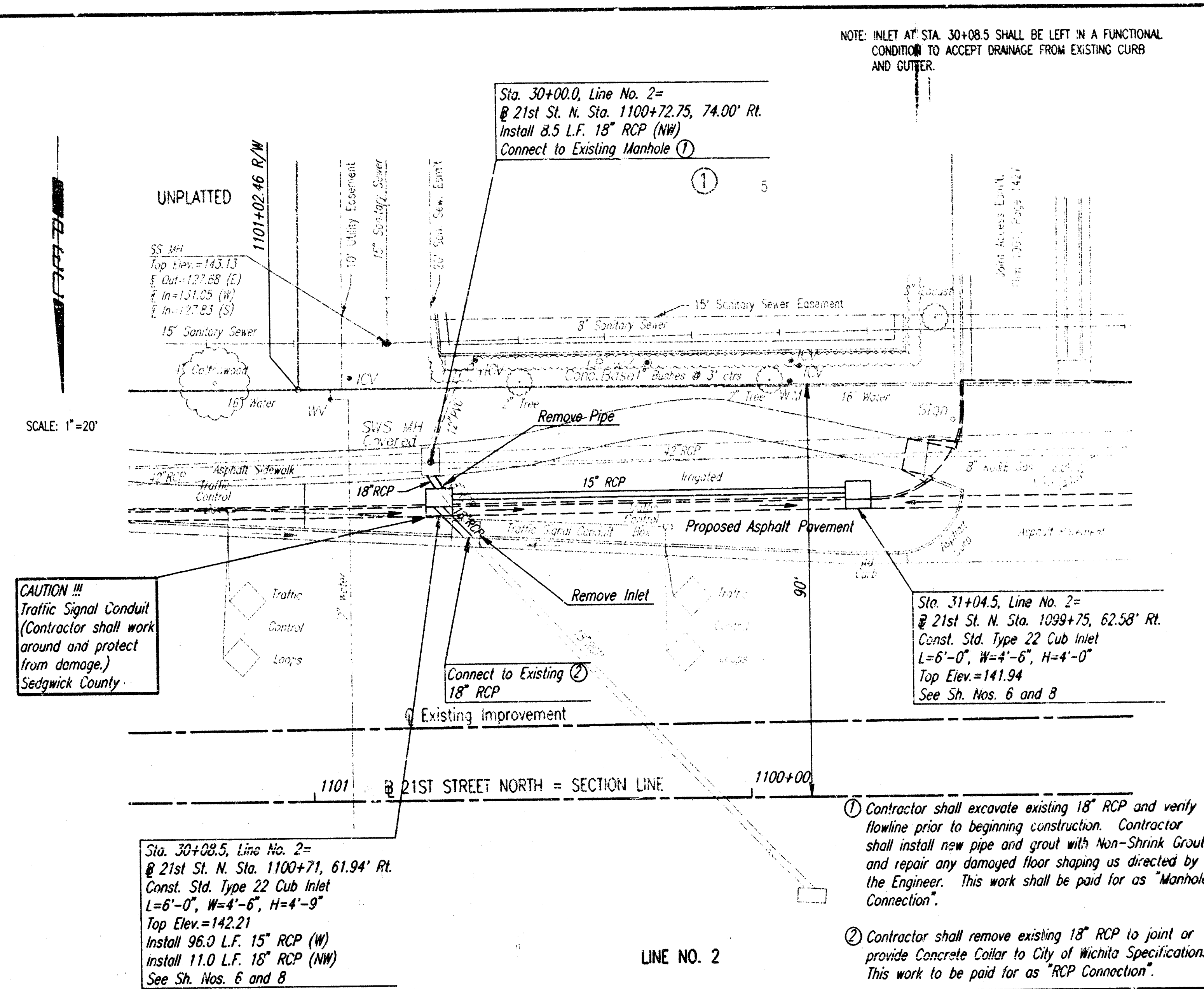
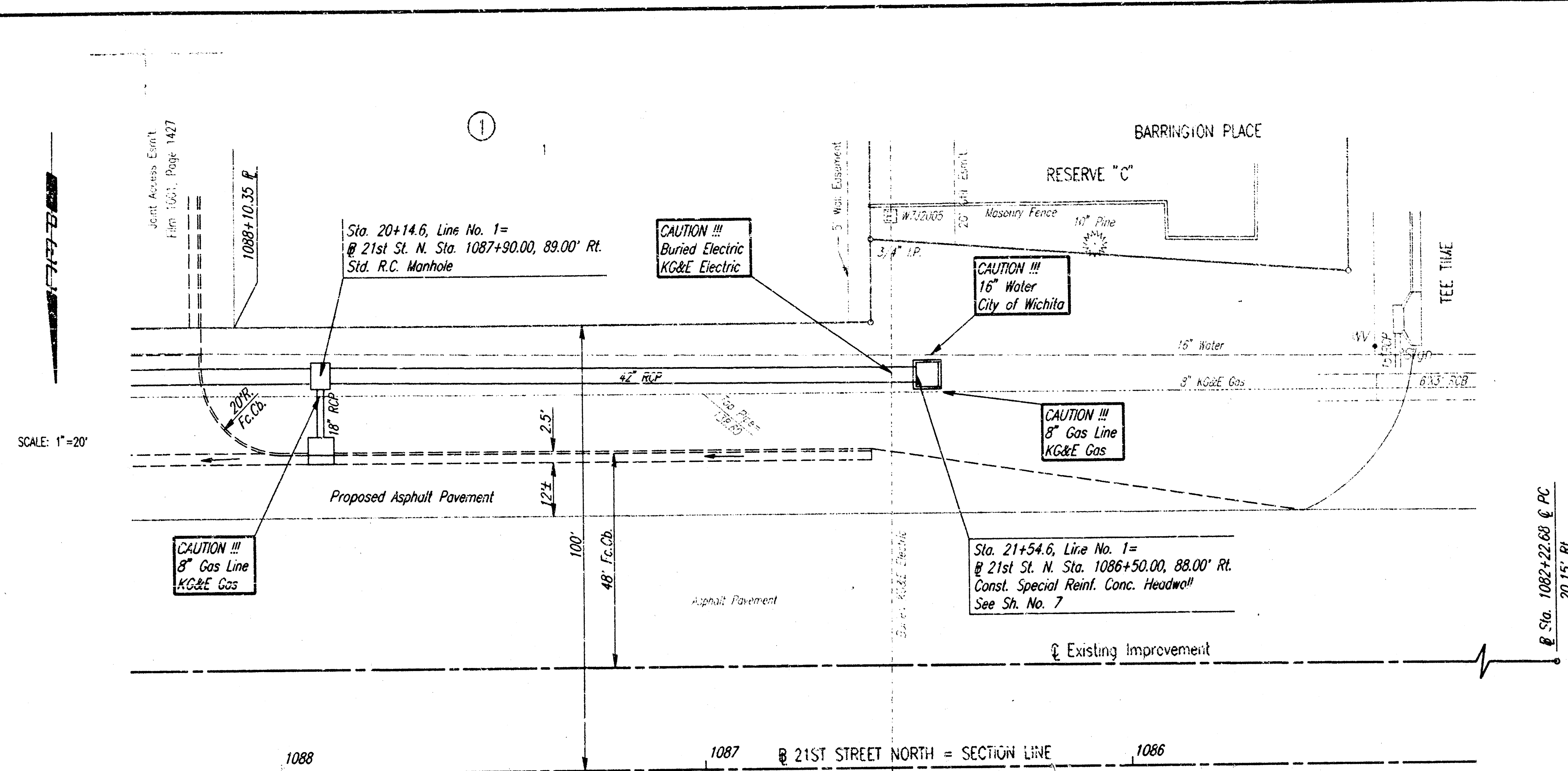
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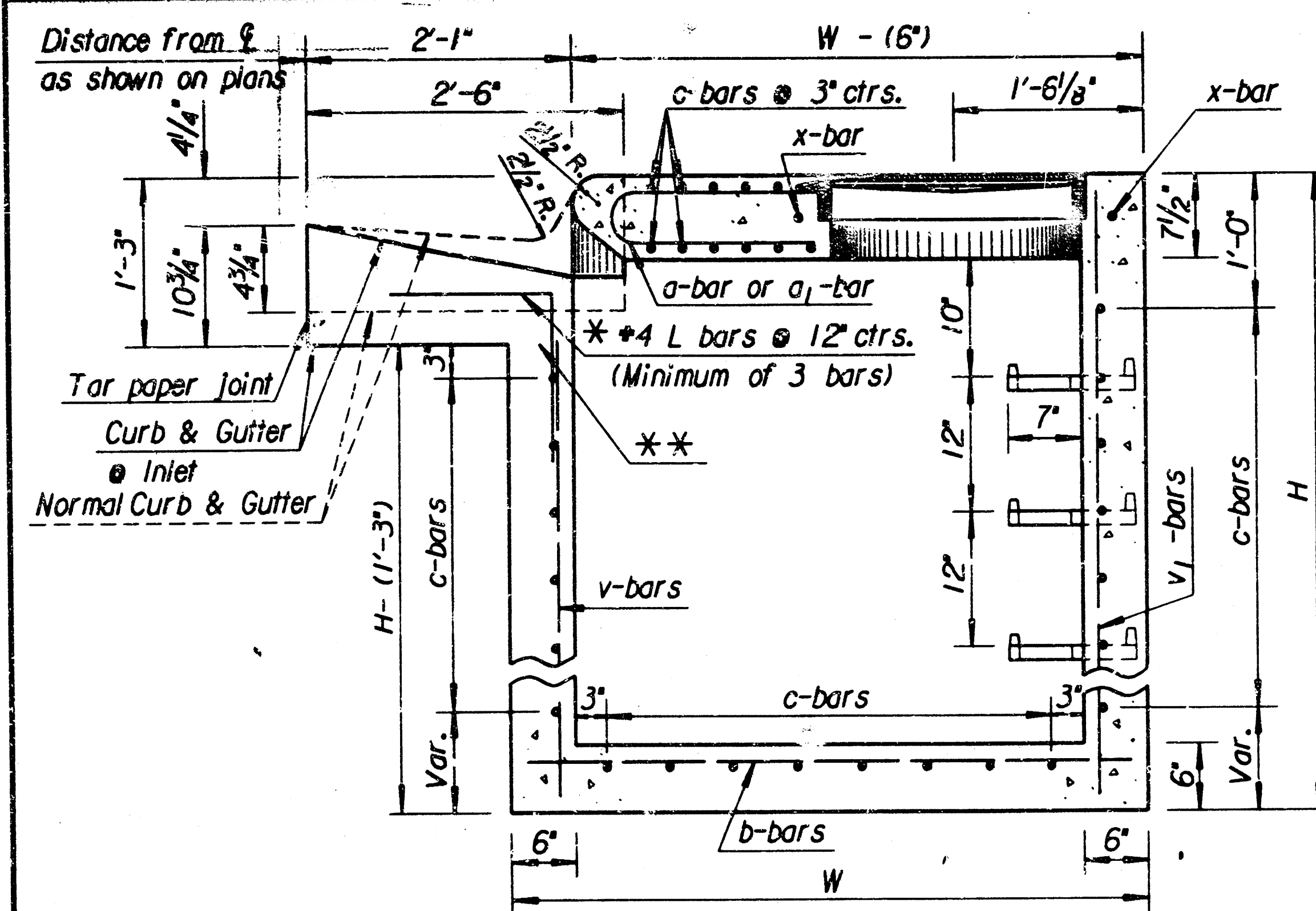
LINE NO. 1
STA. 14+24.6 TO STA. 20+14.6

PROFESSIONAL ENGINEERING CONSULTANTS P.A.
WICHITA, KANSAS
Designed by: BEB, GDD
Drawn by: DEP
Job No. 95325
Date: AUG. 1995
Sheet 4 of 9

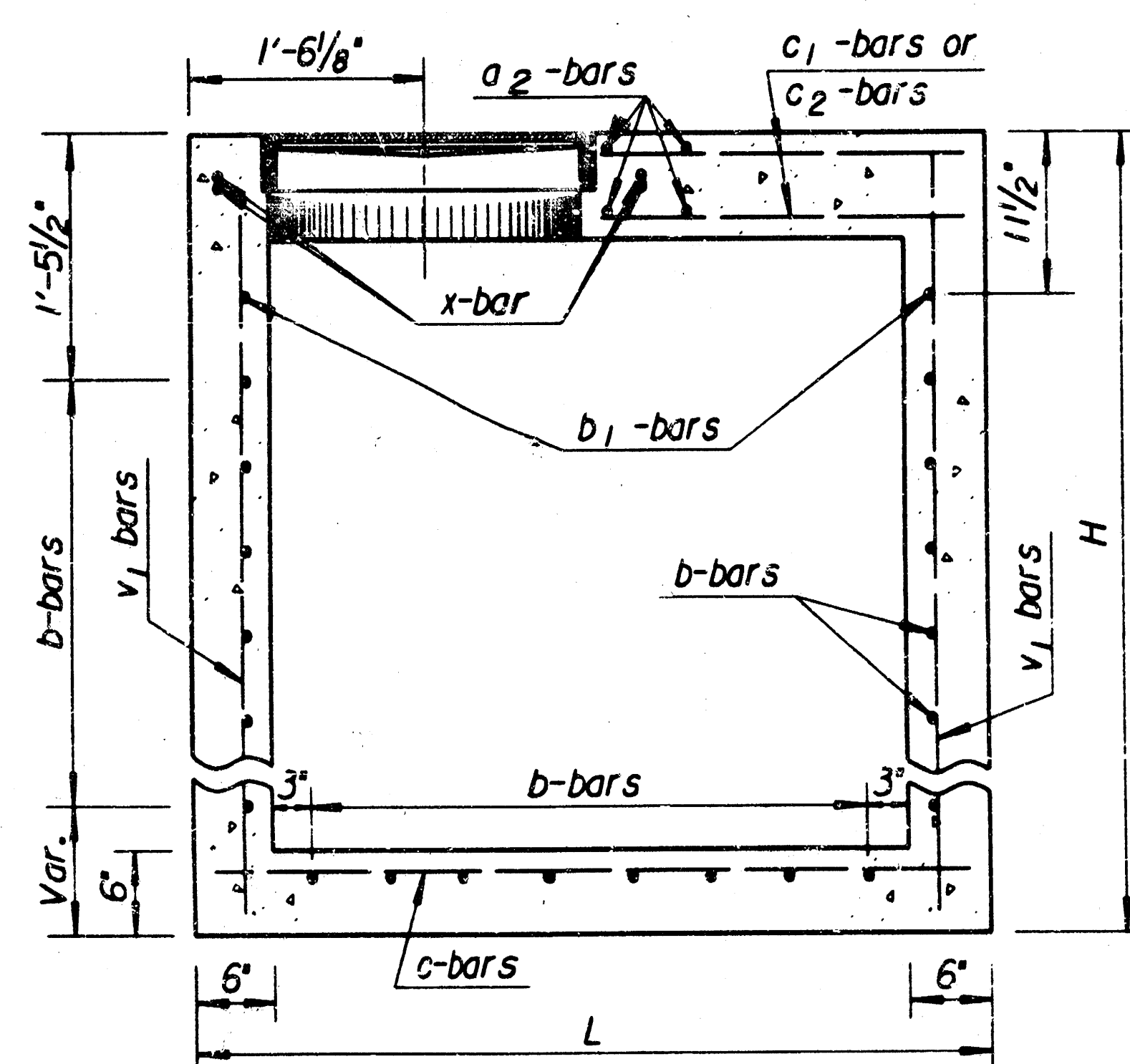


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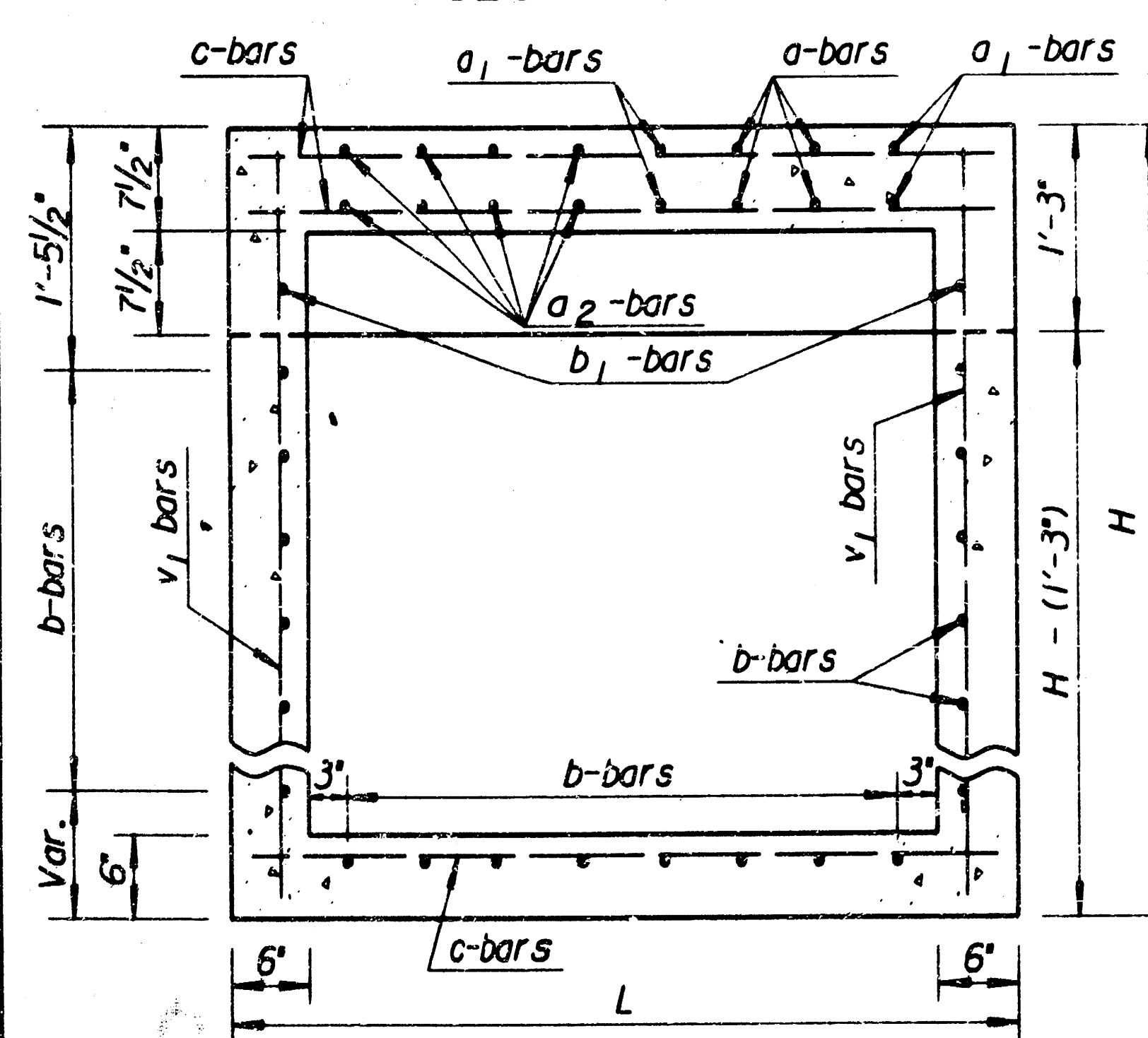
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7	KANSAS	468 76 245 81911 000 000001	19	6	9



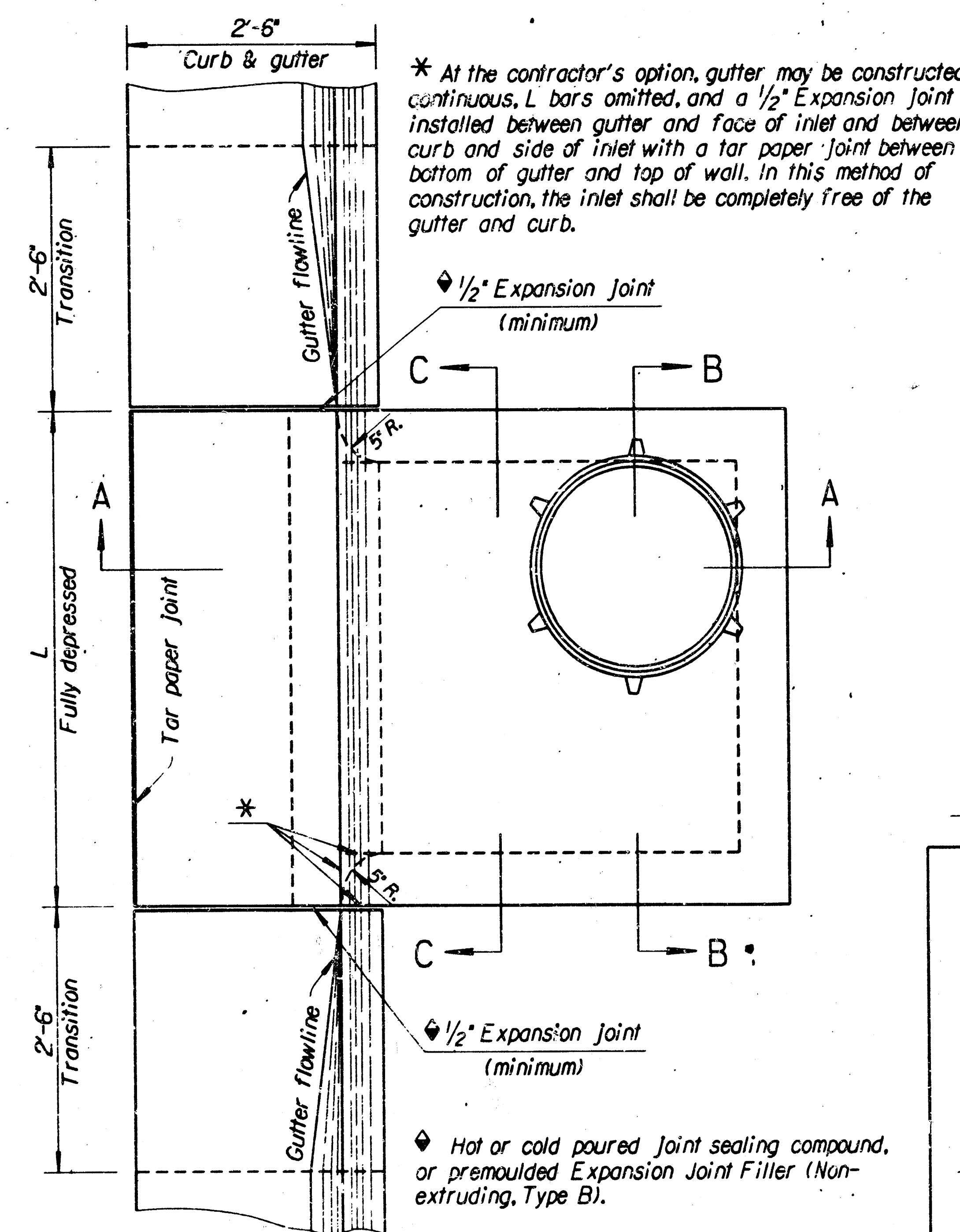
SECTION A-A



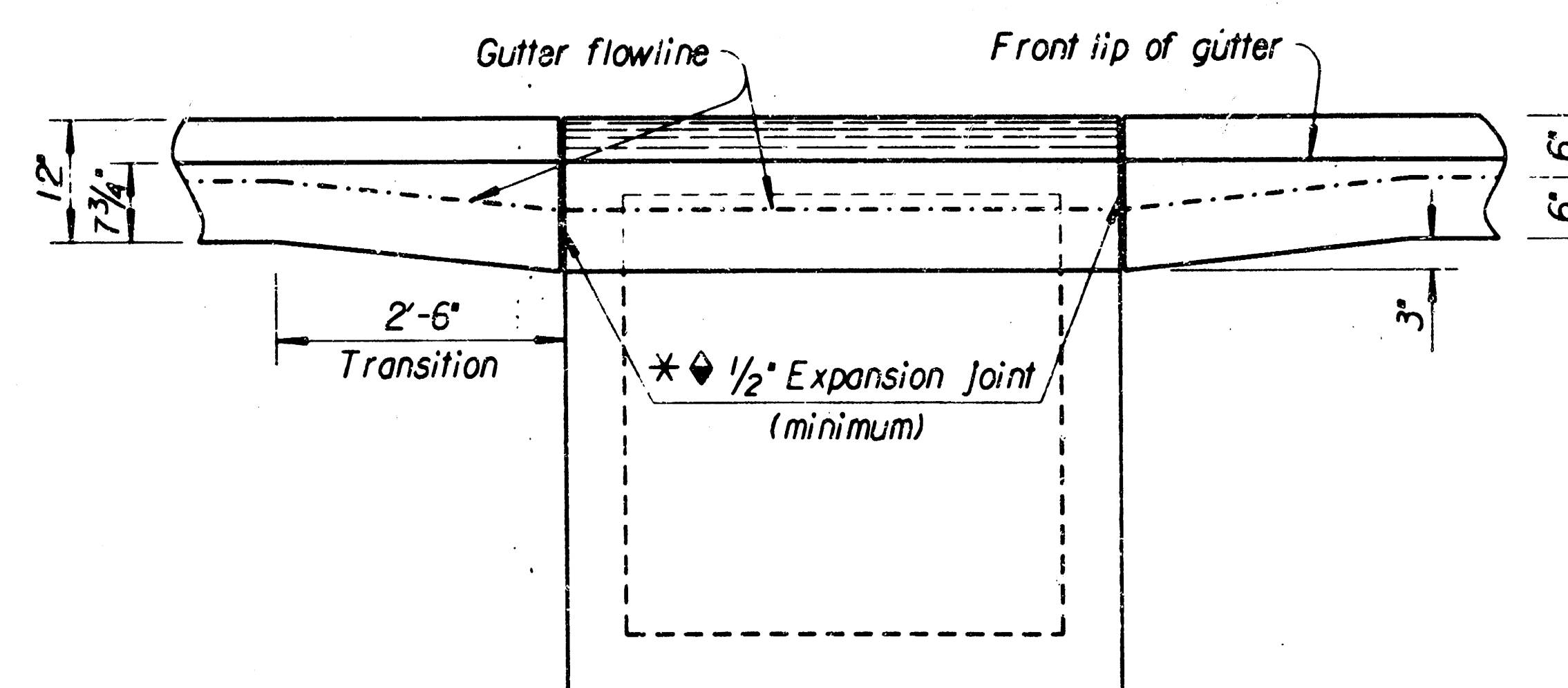
SECTION B-B



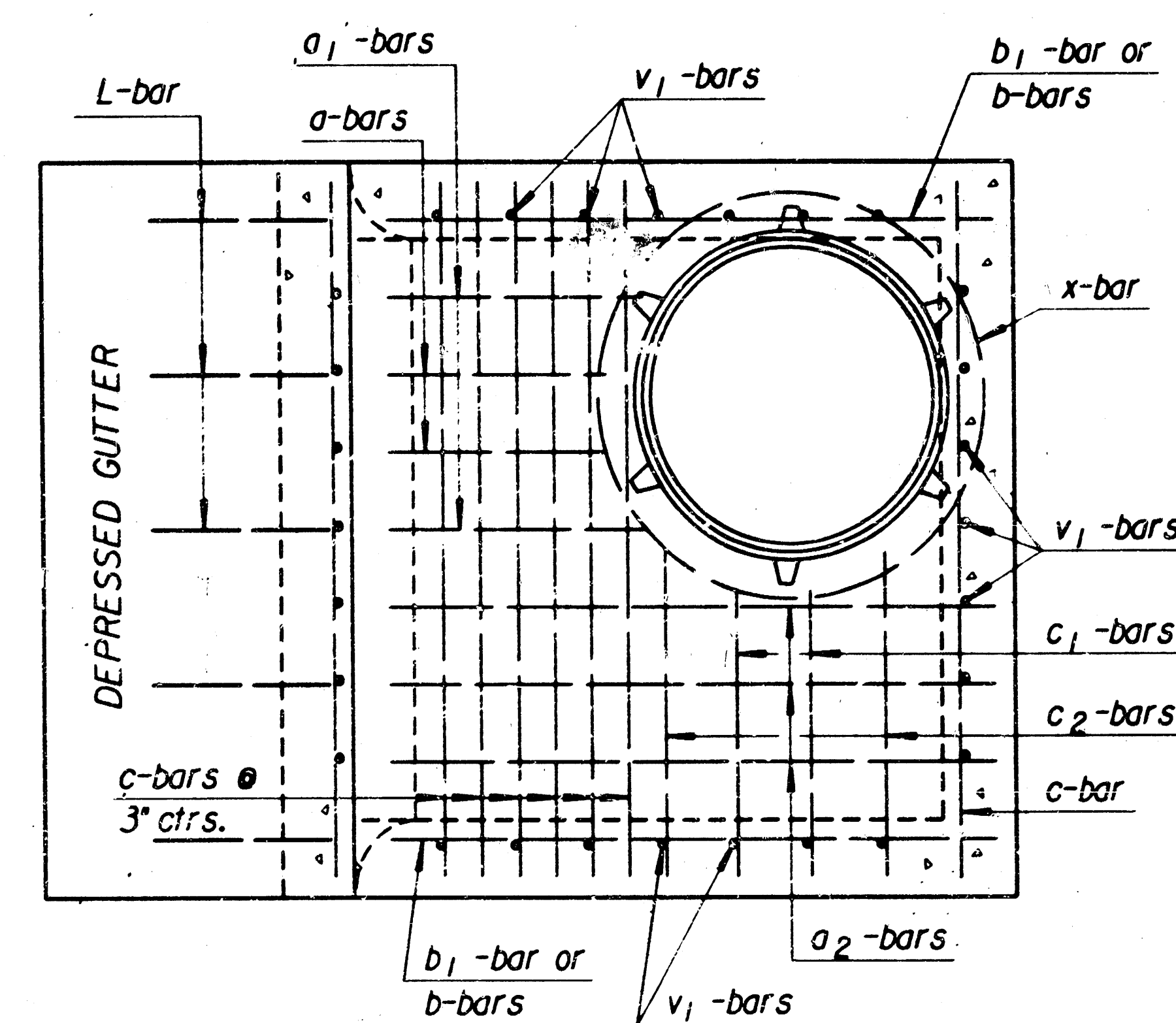
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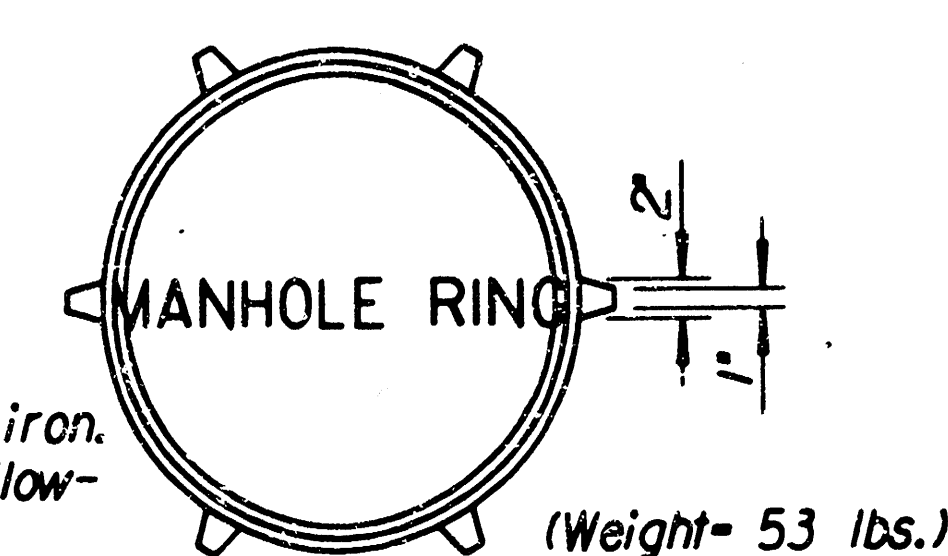
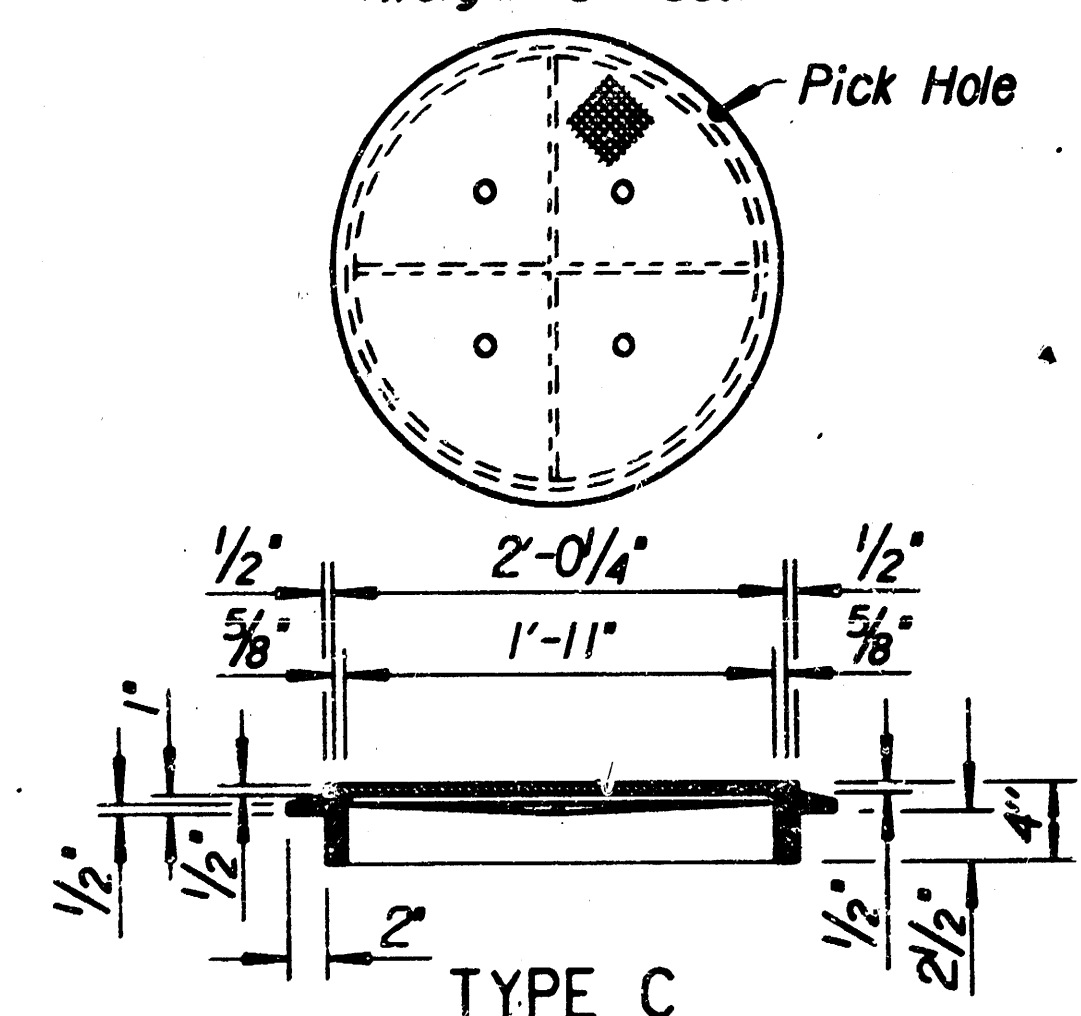
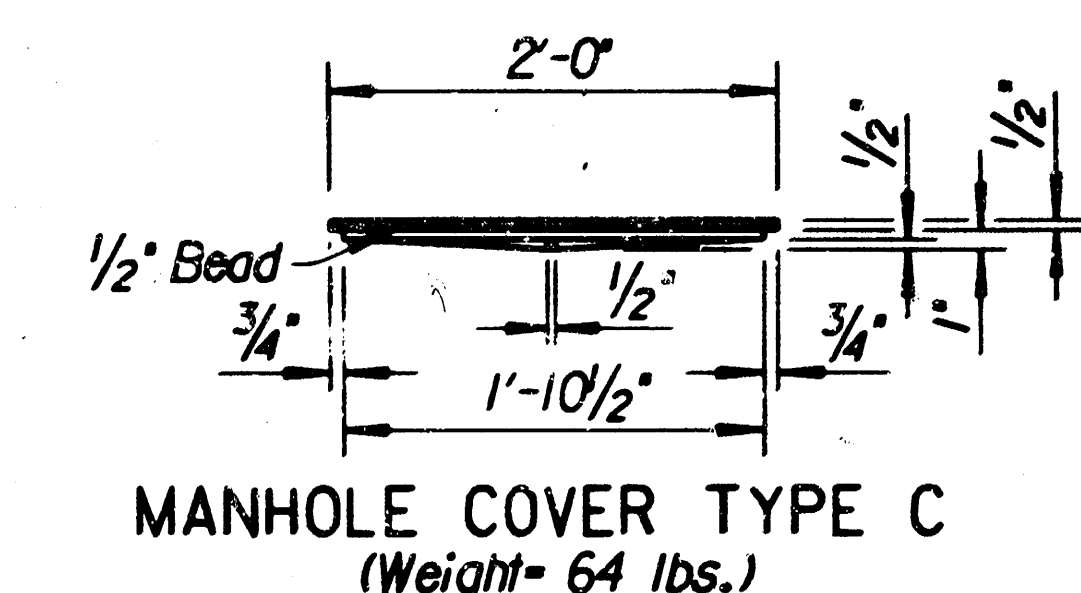
PLAN



ELEVATION



Reinforcing Steel Top View



NOTE: All manhole castings are cast iron.
Weight of castings includes no allowance for fillets and overruns.

*LIGHT TYPE
MANHOLE COVER & RING
*Rings with four equally spaced lugs will be permitted.

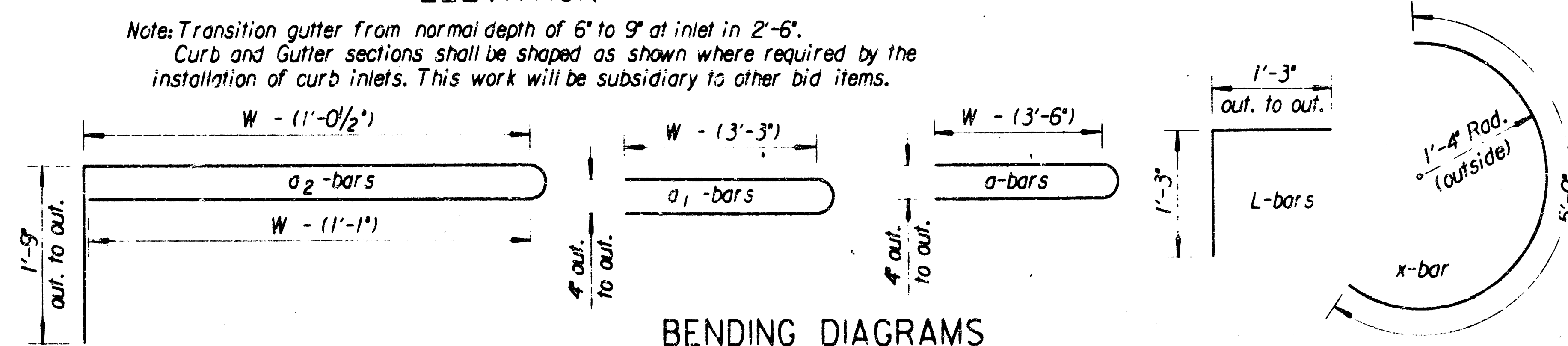
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1	1-30-92	Rev. point&step notes, ent. on CADD	R.J.S.	J.O.B.
NO.	DATE	REVISIONS	BY	APP

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE 22
CURB INLET

~~STD NO 6AC~~

FHWA APPROVAL		2-15-94		APP'D James O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED 8/94		
DESIGN CR.	DETAIL CR.	QUAN. CR.	TRACE CR. 8/94		

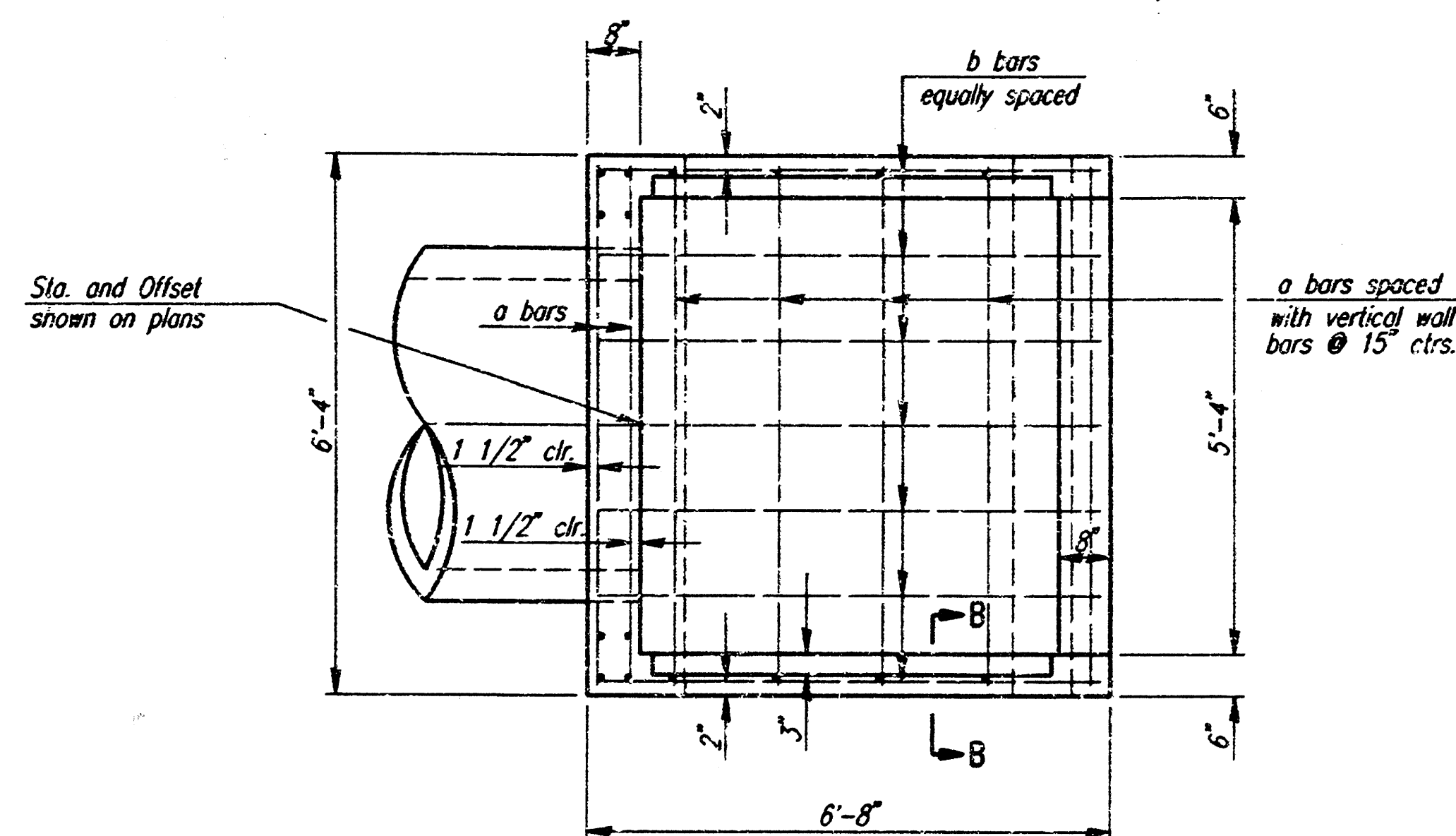


BENDING DIAGRAMS

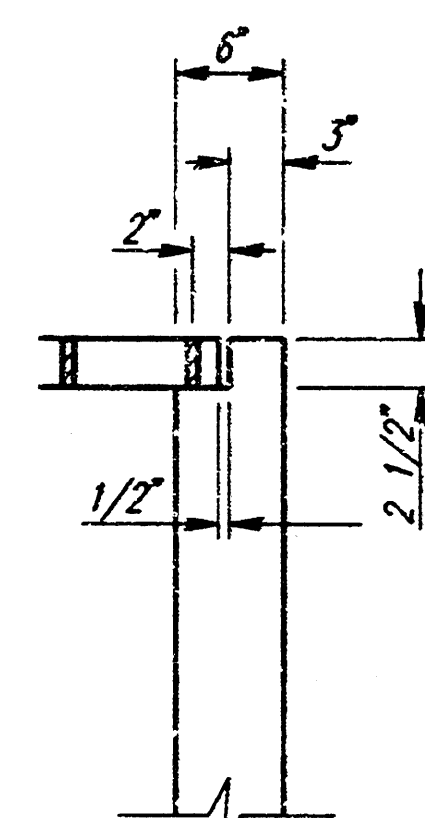
Note: Reinforcing steel for L bars is not included in the steel quantity and is subsidiary to the other inlet items.

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Drawn By : road	
DOWN File : /usr2/road/st06460.dgn	
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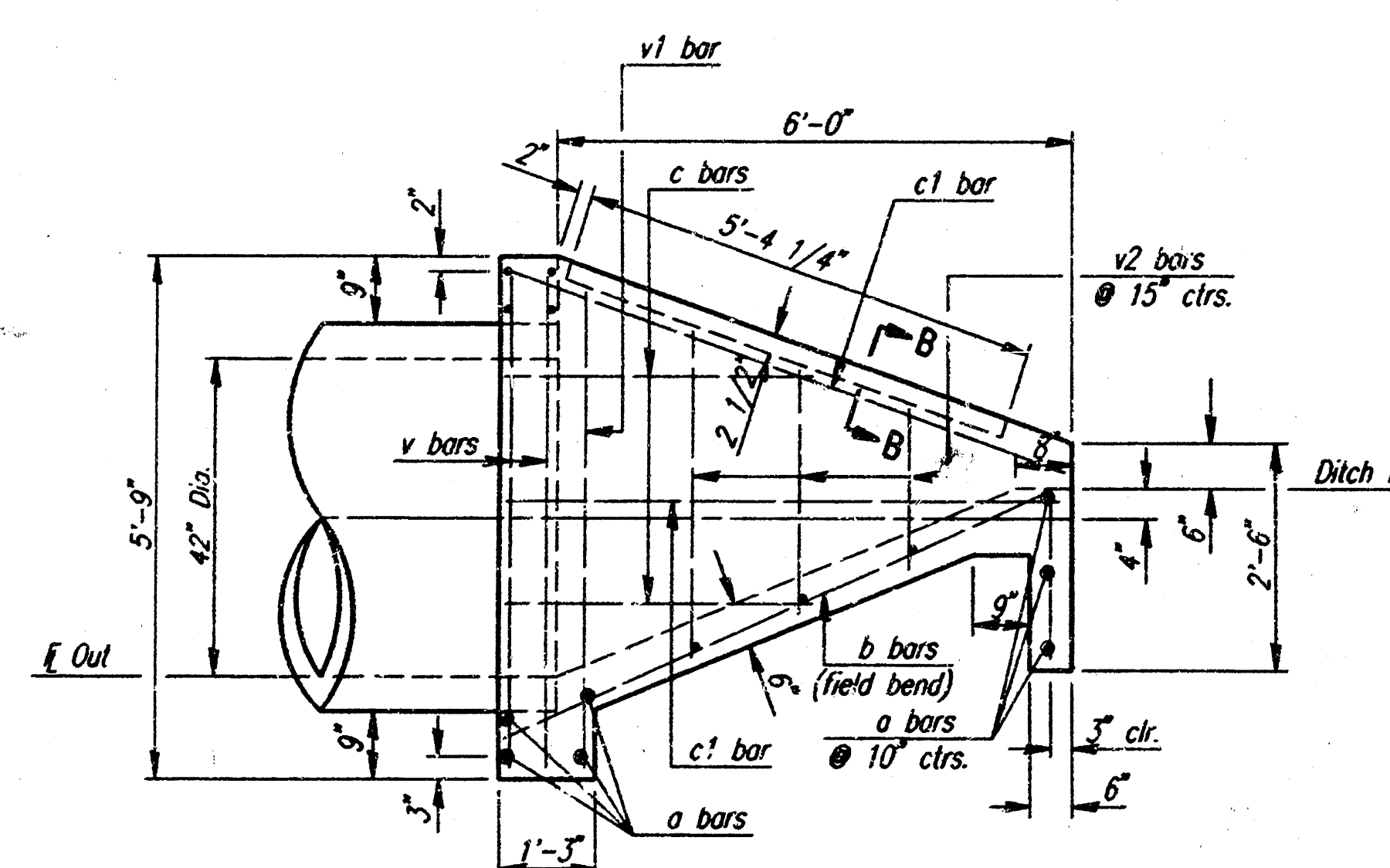
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468-76-245-81911-000-000-001	7	9



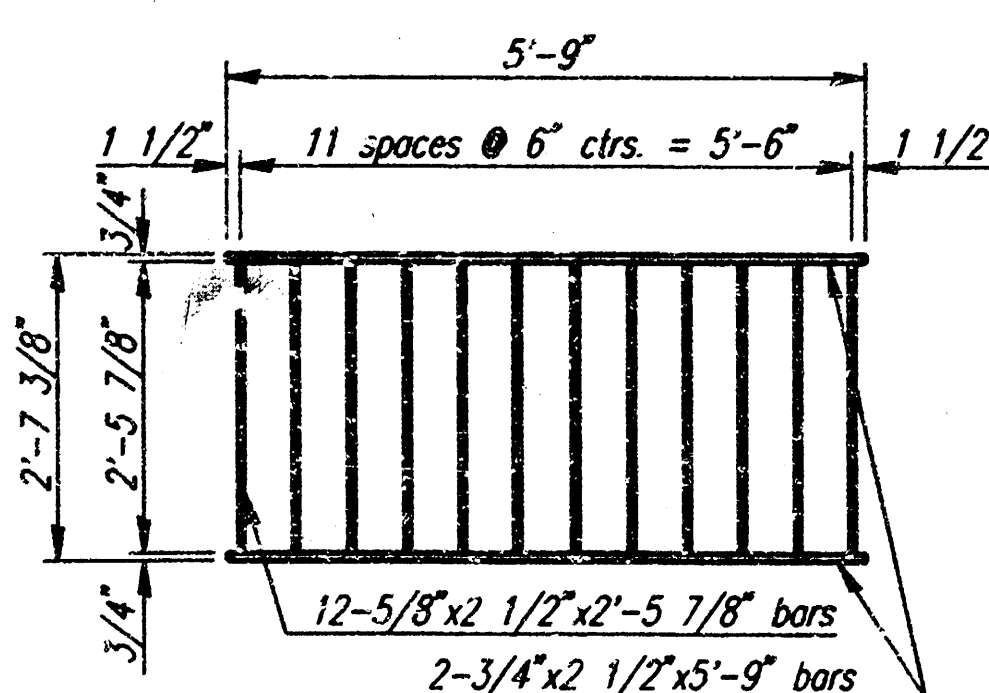
PLAN



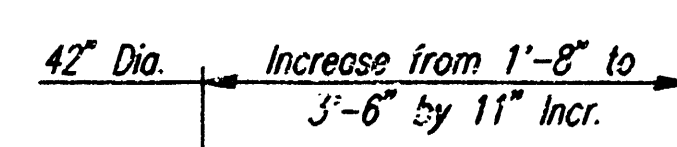
SECTION B-B



ELEVATION

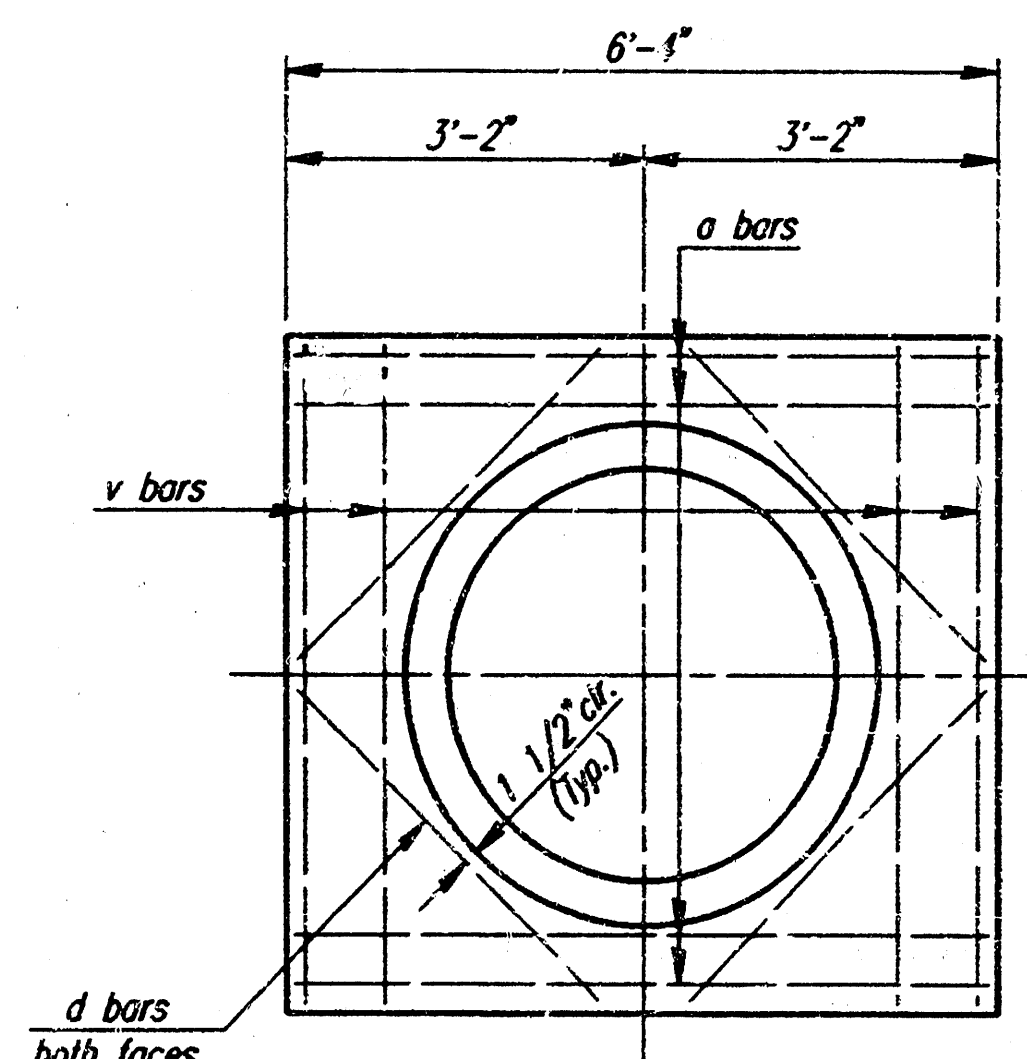


STRUCTURAL STEEL GRATE
Wt. 232 Lbs. Ea. 2 Req'd. Ea. Headwall



* v2 bar (cut 2 each length)

SPECIAL R.C. HEADWALL

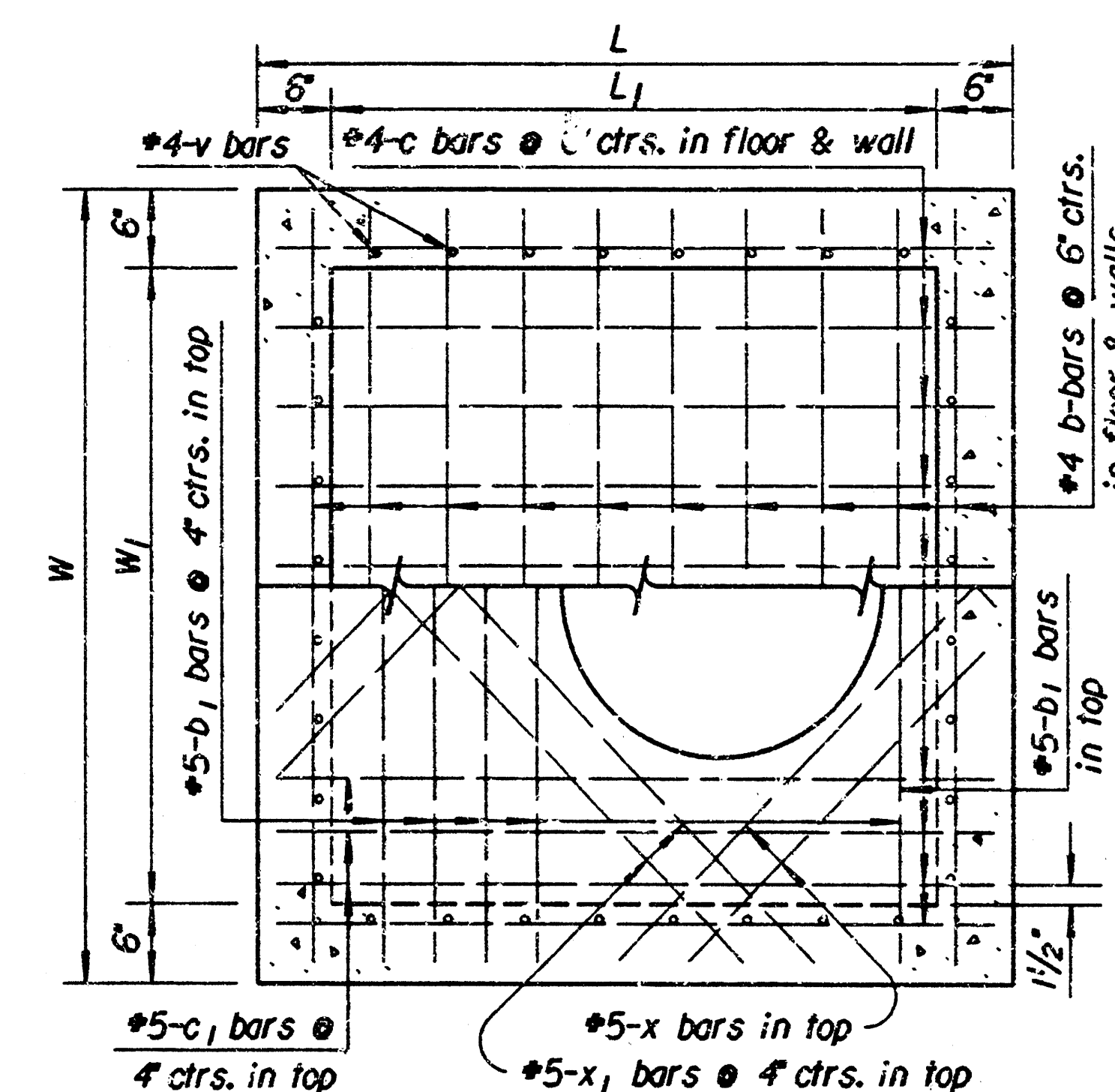


SECTION THRU HEADWALL

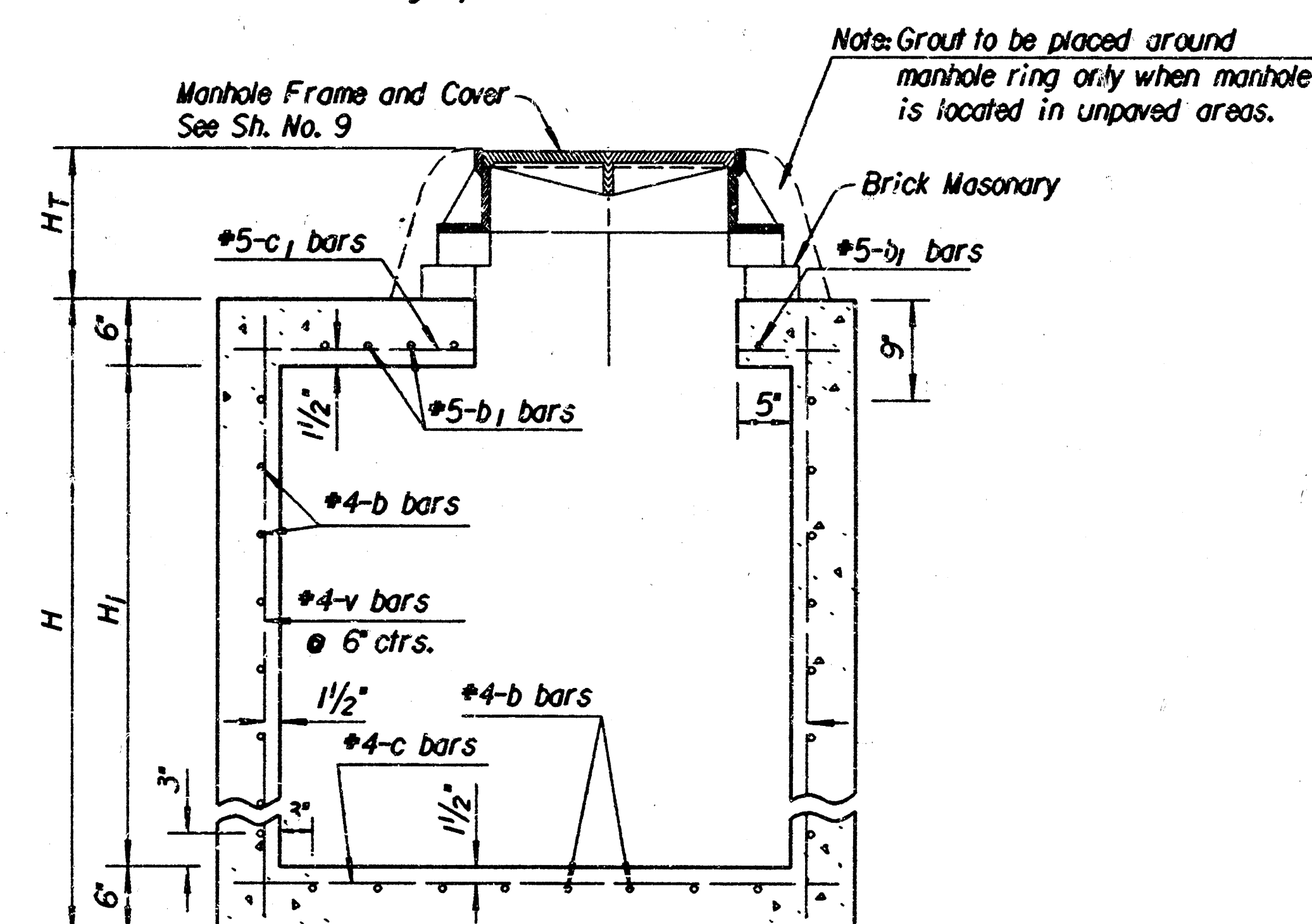
BAR LIST DIAMETER = 42"									
BAR	a	b	c	c1	d	v	v1	v2	
NUMBER	14	7	4	4	8	8	2	6	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	
LENGTH	6'-7"	8'-5"	3'-6"	6'-5"	3'-10"	5'-6"	5'-2"	*	

SUMMARY OF QUANTITIES	
DIAMETER	42"
CONCRETE	2.52 Cu. Yds.
REINFORCING STEEL	190 lbs.
STRUCTURAL STEEL #	464 lbs.

* Contractor shall salvage Structural Steel Grate from Existing Special R.C. Headwall to be removed at Sta. 10+00.0, Line No. 1 for reuse on Special R.C. Headwall at Sta. 20+54.6, Line No. 1.



PLAN
(Showing top & floor reinf.)



SECTION
(Exclusive of floor shaping)
R.C. MANHOLE

GENERAL NOTES

Concrete: Bevel all exposed edges with a 1/4" triangular molding or finish with an approved edging tool. Concrete shall be as per City of Wichita Standard Specifications for concrete paving mix except that it shall have a minimum 28 day compressive strength of 4,000 p.s.i. All pipes shall be flush cut prior to being cast into the headwall or manhole.

Reinforcing Steel: All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted. All reinforcing steel shall conform to A.S.T.M. designation A615 Grade 60 and shall be epoxy coated. All clearances shall be 2" unless otherwise noted.

Payment: A deduction in concrete quantities has been made for the pipe opening. The "Reinforced Concrete Manhole" and "Special Reinforced Concrete Headwall" shall be paid for at the unit price bid per each in place including concrete, reinforcing steel, excavation and all other miscellaneous materials, labor, tools, equipment, and incidentals necessary to complete the work. Quantities shown are for information only.

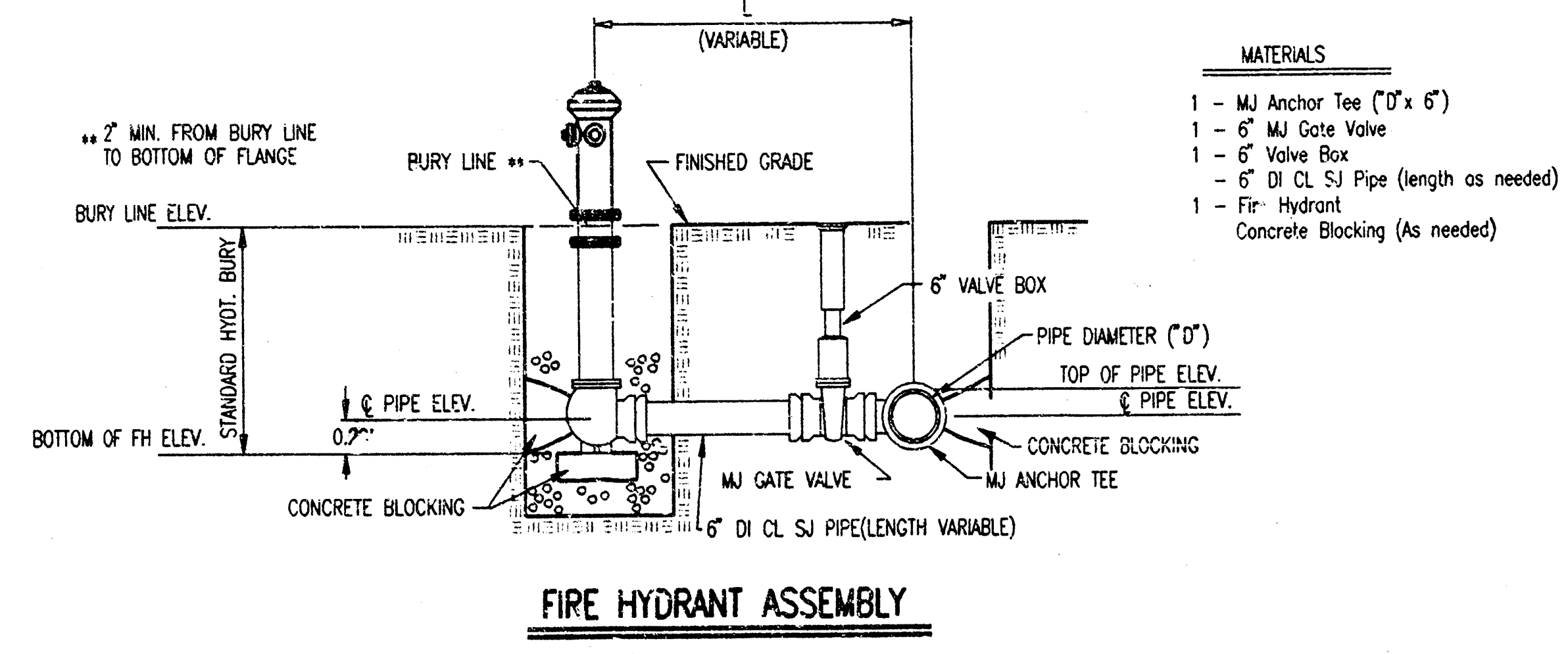
STORM WATER SEWER NO. 378

SPECIAL R.C. HEADWALL AND R.C. MANHOLE DETAILS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

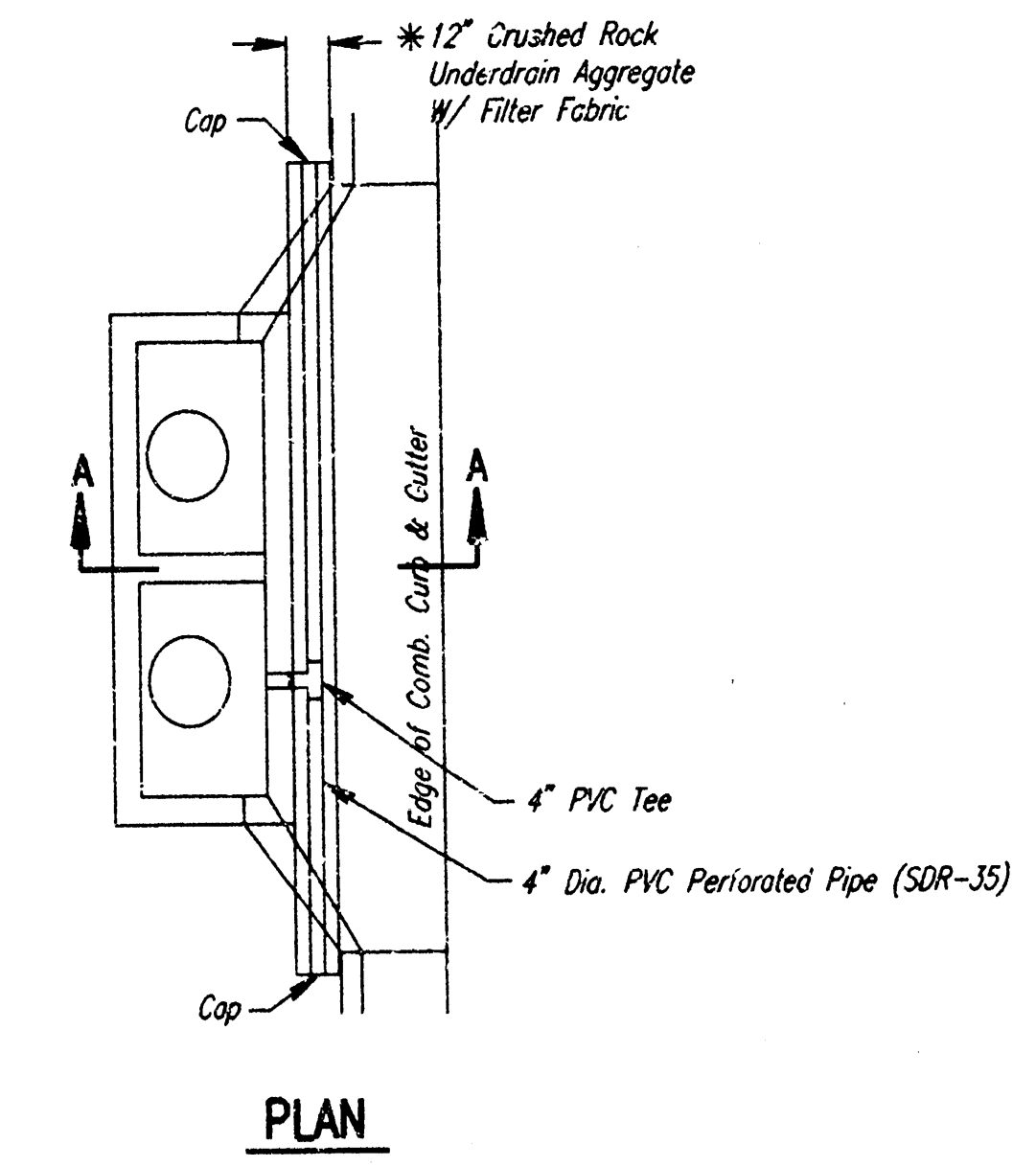
Designed by: BER, GDD
Drawn by: DEP
Checked by:
Date: AUG., 1995
Job No.: 95325

PROJECT NO.	SHEET NO.	TOTAL SHEETS
468-76-245-8191-000-000-001	8	9



FIRE HYDRANT ASSEMBLY

- GENERAL NOTES**
- ALL ELEVATIONS SHOWN ARE CITY OF WICHITA DATUM. (U.S.G.S. - 1187.4 = CITY DATUM)
 - CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
 KANSAS ONE-CALL 687-2470
 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
 CABLEVISION 262-4270 OR 263-2061
 K&E-GAS 263-7511
 K&E-ELECTRIC 264-1141
 PEOPLES NATURAL GAS 942-8350 OR 263-6161
 SOUTHWESTERN BELL TELEPHONE CO. 1-571-2611
 CITY OF WICHITA WATER DEPARTMENT 268-4908
 CITY OF WICHITA SEWER MAINTENANCE 733-0202
 - ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS FOR WATER MAIN INSTALLATIONS NO. 14533.
 - CONTRACTOR SHALL EXCAVATE EXISTING GAS LINE AND WATER LINE TO VERIFY LOCATION AND DEPTH PRIOR TO COMMENCING CONSTRUCTION OF FIRE HYDRANT RELOCATION. ANY DEVIATION FROM PLAN REQUIRED SHALL BE APPROVED BY THE ENGINEER.
 - LUMP SUM BID FOR "FIRE HYDRANT RELOCATION" SHALL BE FULL COMPENSATION FOR ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. QUANTITIES ARE FOR INFORMATION ONLY.

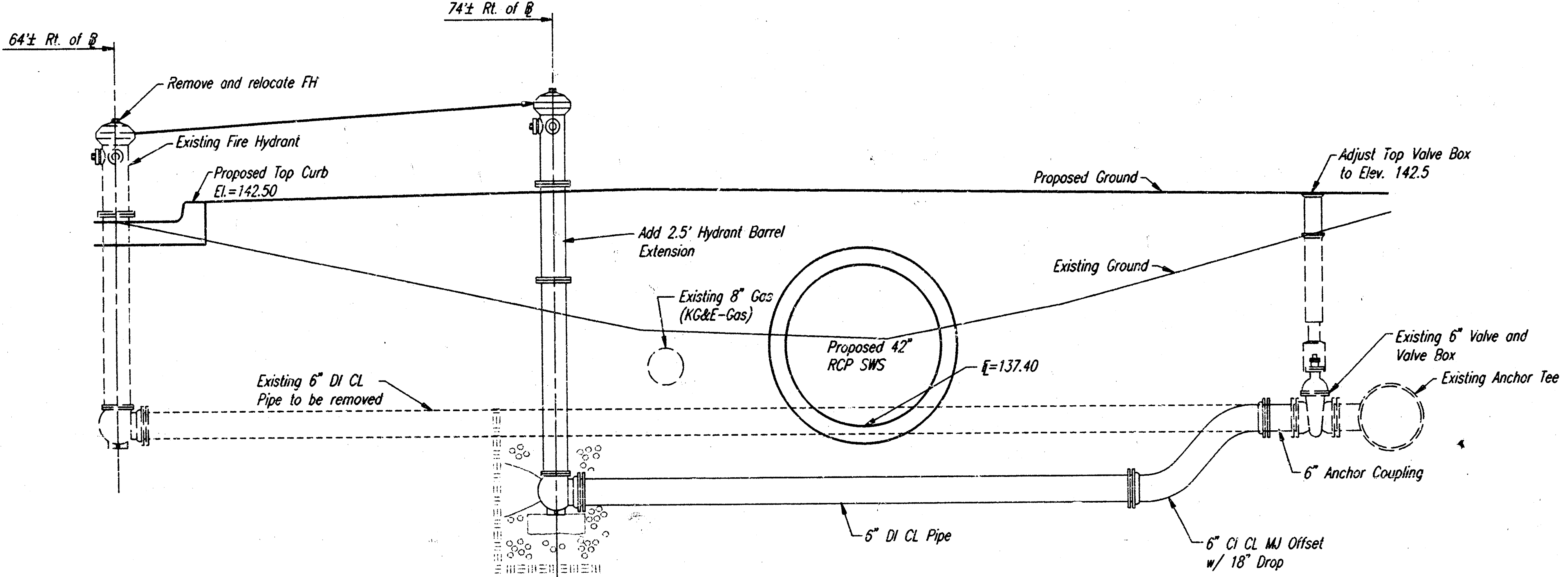


* UNDERDRAIN AGGREGATE
PERCENT OF AGGREGATE RETAINED

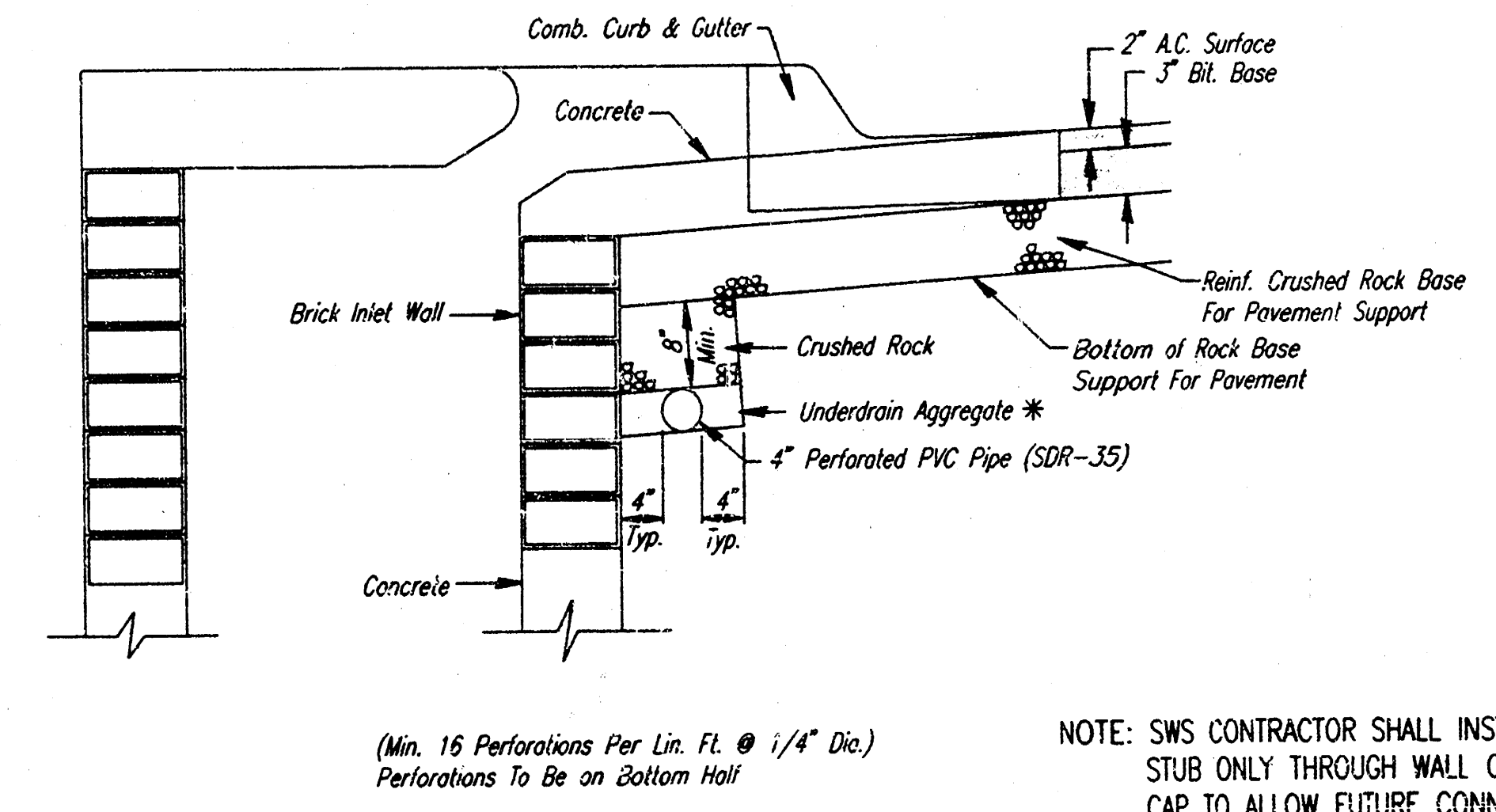
1"	0
3/4"	0-10
3/8"	45-80
#4	90-100
#8	95-100

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS 4.

PAVEMENT UNDERDRAIN LOCATIONS		
STREET	STATION	SIDE
21ST ST. N.	1059+75	RT.



FIRE HYDRANT RELOCATION
@ Sta. 1097+96±, Rt.



SECTION A-A

NOTE: SWS CONTRACTOR SHALL INSTALL SDR 35, 4" DRAIN PIPE STUB ONLY THROUGH WALL OF THIS CURB INLET AND CAP TO ALLOW FUTURE CONNECTION OF TEE AND ADDITIONAL DRAIN PIPE BY OTHERS.

PAVEMENT UNDERDRAIN DETAIL

NOTE: PLACE 4" PVC PERFORATED PIPE AT ALL DRAINAGE SUMP LOCATION
 COST OF UNDERDRAIN SYSTEM TO BE INCIDENTAL TO TYPE 22 INLET.
 INLET TYPE MAY VARY FROM THAT SHOWN.

STORM WATER SEWER NO. 378

MISCELLANEOUS DETAILS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

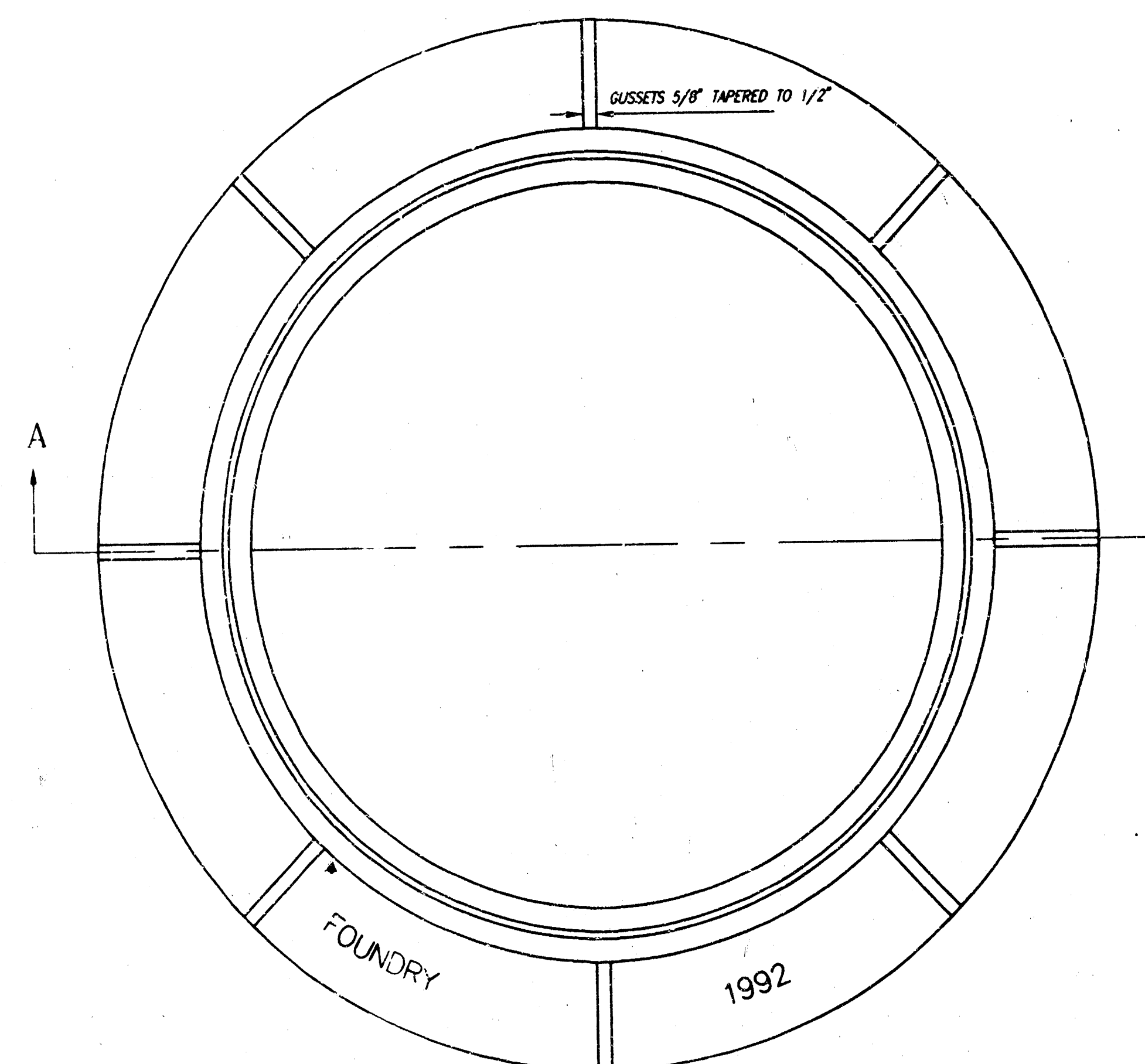
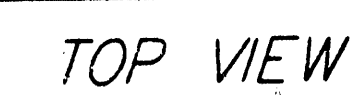
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Drawn by: DEP	Date: AUG., 1995 Job No. 95325

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 date plotted: 8/18/95
 deliver to: dwane dunn

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

Technical drawing of a circular manhole cover. The cover features a checkered pattern. The text "CITY OF WICHITA KANSAS SEWER DEPT" is inscribed along the top arc, and "FOUNDRY 1992" is inscribed along the bottom arc. A detail view on the right shows a "CLOSED PICKHOLE (SEE DETAIL)" and a "CHECKERED PATTERN TOP".

PICKHOLE DETAIL



Technical drawing of a mechanical part, likely a seat or base, showing dimensions and a cross-section.

Top View Dimensions:

- Total width: 26"
- Inner width: 24"
- Total length: 27 1/4"
- Total length including flange: 35 1/2"

Side View Dimensions:

- Flange thickness: 1/8"
- Main body thickness: 1 3/16"
- Base thickness: 1/2"

Labels:

- MACHINED FINISHED SEAT (pointing to the top surface)
- Unfin 1 3/16" (pointing to the main body)
- Finished 1/8" (pointing to the flange)

SECTION A-A

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT ARI AND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS C/T. THE COVER SHALL BE IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS A, AT LEAST 1" HIGH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT" THE WCHD DEPARTMENT NAME MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE IDENTIFIED IN A CHECKED PATTERN DESIGNATION. THE COVER SHALL BE IDENTIFIED WITH LETTERING C/T. SMOOTH BLOCKOUTS SHALL BE IDENTIFIED TO HEIGHTEN THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

MANHOLE CASTINGS SHALL WEIGH A MINIMUM OF 180 POUNDS ON THE SOLID COVER AND 240 POUNDS ON THE MANHOLE RING. THIS IS A TOTAL OF 420 POUNDS ON A RING AND COVER SET. CASTINGS WEIGHING LESS THAN THE MINIMUM SPECIFICATIONS WILL NOT BE ACCEPTED.

TO INSURE CONFORMANCE TO TENSILE STRENGTH REQUIREMENTS ALL CASTINGS SHALL BE JULIAN
HEAT DATED WITH THE FOLLOWING REQUIREMENTS:

TWO TEST BAR SPECIMENS MUST BE POURED WHEN PRODUCING CITY OF WICHITA CASTINGS. ONE OF THE TEST BAR SPECIMENS SHALL BE SENT TO AN INDEPENDENT LABORATORY FOR TENSILE STRENGTH VERIFICATION TESTING. A TEST REPORT SHALL ACCOMPANY EACH SHIPMENT OF CASTINGS. THE HEAT DATE(S) ON THE CASTINGS SHALL RESPOND TO THE TENSILE STRENGTH REPORT(S). THE TEST REPORT WILL BE PAID FOR BY THE SUPPLIER. THE REMAINING TEST BAR SPECIMEN WILL BE SHIPPED TO SEWER MAINTENANCE AT 715 W. HARRY, WICHITA, KANSAS 67213.

MANHOLE FRAME AND COVER DETAIL			
ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA, KANSAS			
CITY OF WICHITA, KANSAS			NEVISED 6/27/95
M. E. UNDEBAK - CITY ENGINEER			
PROJ. NO. 468-76-245-8/9/11-000-000-001			SHEET 9
			OF 9