

SURFACE TRANSPORTATION PROGRAM

PROJECT NO. - STP-6945(1)

49-6945-00-001-10

LAKE HARBOUR DRIVE/SPILLWAY ROAD IMPROVEMENTS

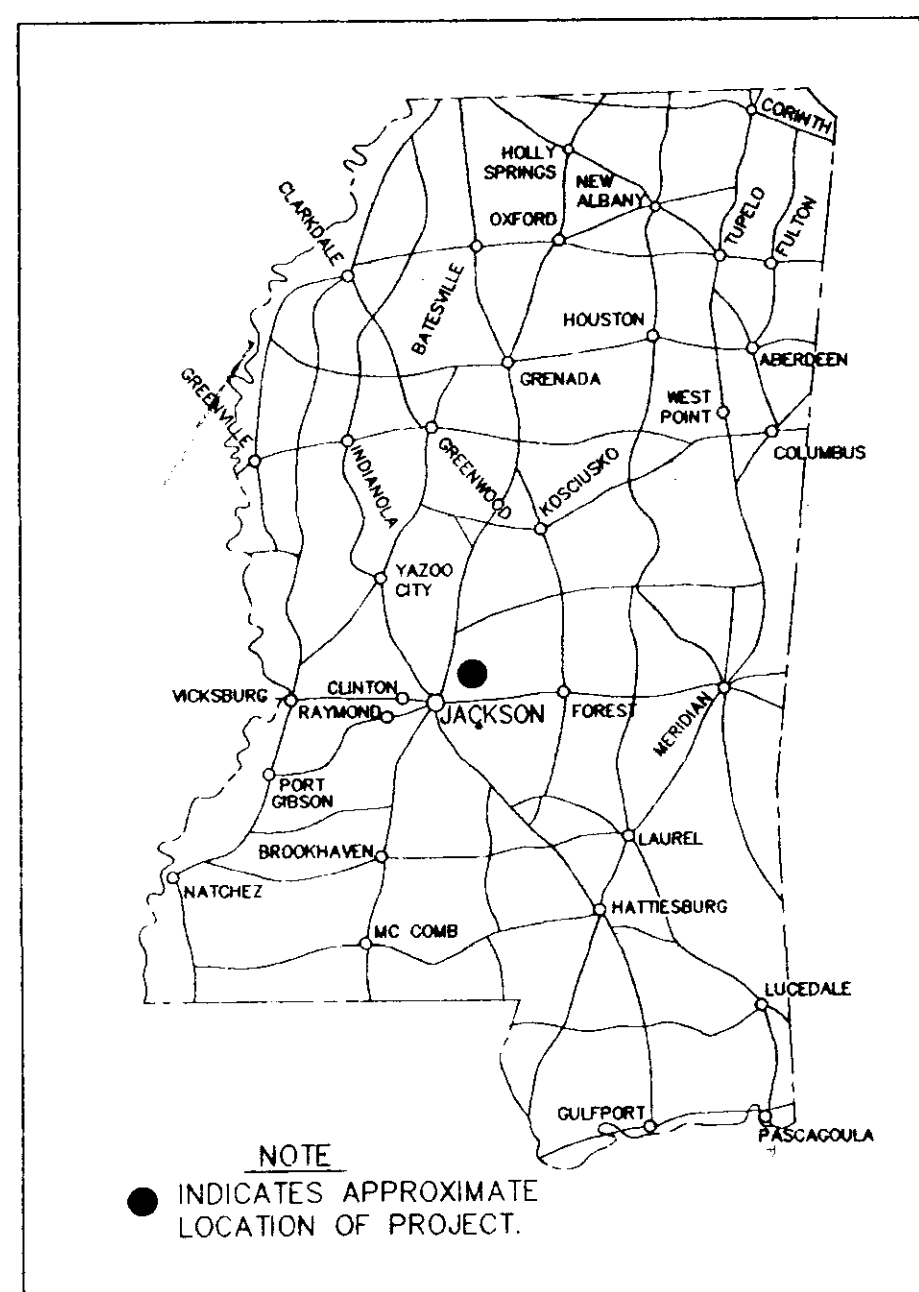
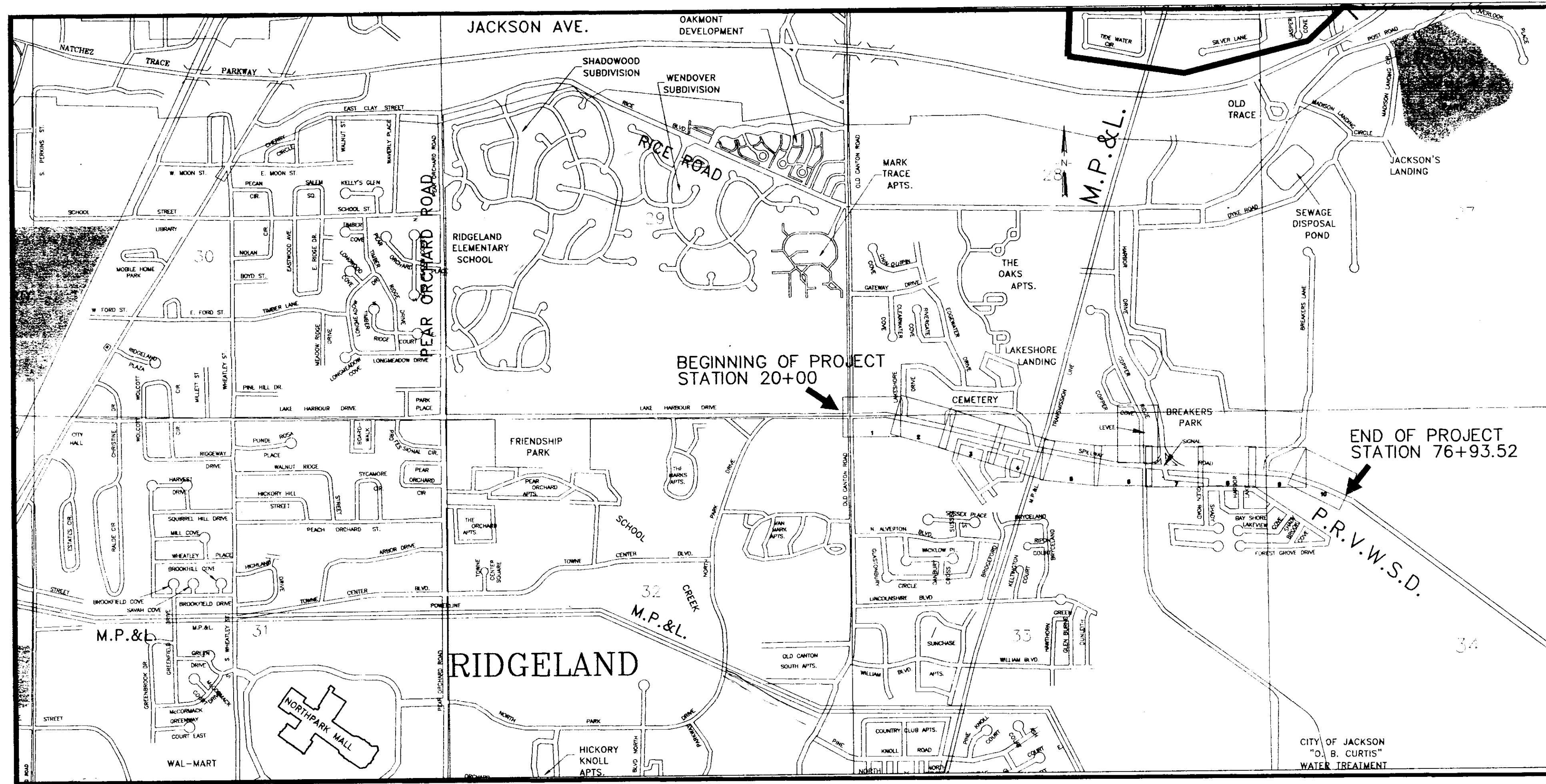
CITY OF RIDGELAND, MISSISSIPPI

SCALES
 COVER 1 IN. = 1000'
 PROFILE- HORZ. 1 IN. = 20 FT.
 VERT. 1 IN. = 5 FT.

INDEX
 FOR DETAILED INDEX OF PLANS SEE SHEET NO. 2

DESCRIPTION	NUMBER OF SHEETS
TITLE SHEET	1
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- Mayor:**
Gene F. McGee
- Mayor Pro Tem:**
Gerald Steen
- City Attorney:**
Jerry Mills
- Aldermen:**
 Joe Barlow
 Harvey Carr, Jr.
 Linda Davis
 Kathi Irons
 Larry Roberts
 Daryl Smith
 Gerald Steen
- Public Works Director:**
Sam C. Vinson, P.E.
- Asst. Public Works Director:**
Sid E. Hawthorne
- Asst. City Engineer:**
David E. Williams, P.E.
- City Clerk:**
Michael McPhearson
- Fire Chief:**
Elmer Waits
- Police Chief:**
Charles Newell



DESIGN SPEED = 45 mph

DHV	D	T	T TOTAL
4300	% OF DHV	% OF DHV	% OF ADT
	55	3	3

PROJECTED
 AD1 (1996) = 20,000 (MD01) B.O.P. 10 E.O.P.
 AD1 (2016) = 36,000 (MD01) B.O.P. 10 E.O.P.

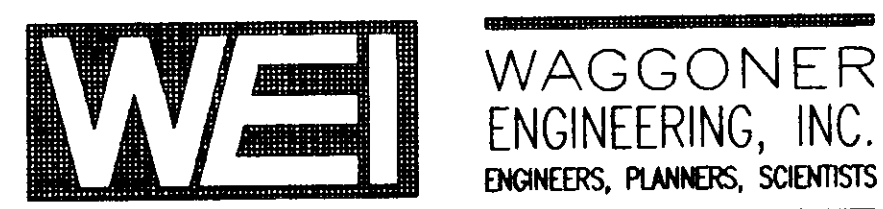
EQUATIONS
 NONE

LENGTH DATA

LENGTH OF ROADWAY	5693.52 FT	1.078 MI
LENGTH OF BRIDGES	00.00 FT	0.000 MI
LENGTH OF PROJECT (NET)		1.078 MI
LENGTH OF EXCEPTIONS	0.00 FT	0.000 MI
LENGTH OF PROJECT (GROSS)		1.078 MI

EXCEPTIONS
 NONE

MAY - 1997



PWP-01212

THE WAGGONER ENGINEERING, INC.
 REGISTERED PROFESSIONAL ENGINEERS
 STATE OF MISSISSIPPI
 LICENSE NO. 15777
 EXPIRES 12/31/97

PROJECT ENGINEER _____ DATE _____

Gene F. McGee
 MAYOR, CITY OF RIDGELAND 6/18/97
 DATE

APPROVED: _____ DATE 6/22/97
 EXECUTIVE DIRECTOR
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED: _____ DATE _____
 DIVISION ADMINISTRATOR
 FEDERAL HIGHWAY ADMINISTRATION
 DEPARTMENT OF TRANSPORTATION

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GENERAL NOTES

- PUBLIC UTILITIES
A. WATER AND SEWER--CITY OF RIDGELAND
B. ELECTRICITY--ENTERGY
C. GAS--MISSISSIPPI VALLEY GAS AND ENMARK ENERGY
D. CABLE--CAPITOL CABLEVISION
E. TELEPHONE--BELL SOUTH
- THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
- TOE WALLS ARE REQUIRED AT ALL UPSTREAM AND DOWNSTREAM FLARED END SECTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. TOE WALLS ARE AN ABSORBED ITEM.
- A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT USING SAMPLES TAKEN FROM HOLES AT THE LOCATIONS INDICATED IN THE REPORTS. THIS REPORT IS INCLUDED IN THE PROPOSAL AND CONTRACT DOCUMENT. THE CITY DOES NOT GUARANTEE THAT THE MATERIALS AS SHOWN IN THE REPORTS ARE NECESSARILY TO BE FOUND OUTSIDE THE TEST HOLES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED IN UNDERCUT AREAS AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
- ALL SIZES OF FLAGED ENDS MAY BE FURNISHED WITH EITHER BELL + SPIGOT OR TONGUE AND GROOVE JOINTS.
- VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC. SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 283 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.
- WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION. THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION, ALL COSTS FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAFTING AND CONSTRUCTING THE FACILITY, SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
- SOME WORK IS REQUIRED OUTSIDE THE PROJECT LIMITS BEYOND THE B.O.P. AND E.O.P. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK, EXCEPT AS PROVIDED BY SPECIFIC PAY ITEMS SHOWN ON THE PLANS.
- ALL SIGNS THAT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT SHALL BE REMOVED AND RESET BY THE CONTRACTOR (NOT A SEPARATE PAY ITEM) (COST TO BE ABSORBED IN OTHER ITEMS BID).
- BASE AND PAVEMENT FOR STREET INTERSECTIONS AND LOCAL ROAD TURNOUTS TO BE THE SAME AS THAT OF THE MAINLINE.
- ASPHALT REQUIRED FOR TEMPORARY TIE-INS DURING CONSTRUCTION OF THIS PROJECT SHALL BE PAID FOR UNDER THE APPROPRIATE ITEMS AND BE PLACED AS SPACE DIRECTED BY THE ENGINEER.
- DRAINAGE STRUCTURES REQUIRED UNDER LOCAL ROAD TURNOUTS, STREET INTERSECTIONS AND RAMPS SHALL BE CONSTRUCTED IN HALF WIDTHS, IN ORDER TO MAINTAIN TRAFFIC AT ALL TIMES. COST OF SHEET PILING REQUIRED TO MAINTAIN BANKMENT FOR THIS CONSTRUCTION TO BE ABSORBED IN THE BID PRICE OF OTHER ITEMS (NOT A SEPARATE PAY ITEM).

STATE	PROJECT NO.
MS.	STP-6945(1)
49-6945-00-01-10	

SPILLWAY LINE ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)

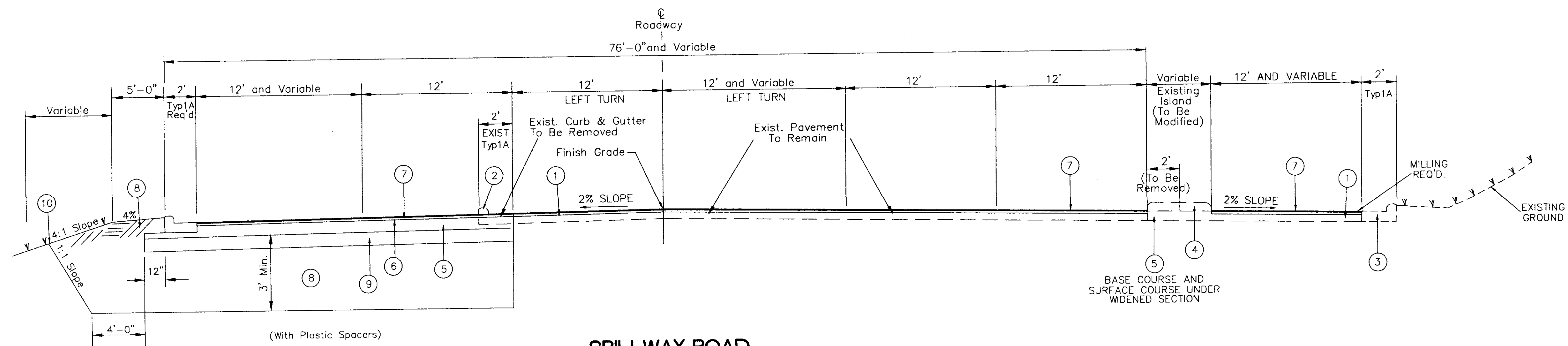
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CITY OF RIDGELAND, MISSISSIPPI

WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: B.F. DATE: 7-10-97 SHEET NUMBER

REVIEWED BY: B.S. SCALE: 1"=20' 2



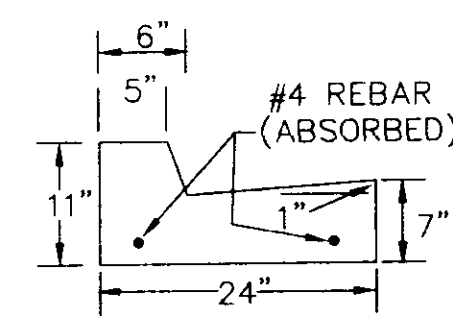
SPILLWAY ROAD
TYPICAL GRADE, DRAIN, BASE, AND PAVE SECTION THRU TURN LANES

STA. B.O.P. - STA. 20+55.00
NOT TO SCALE

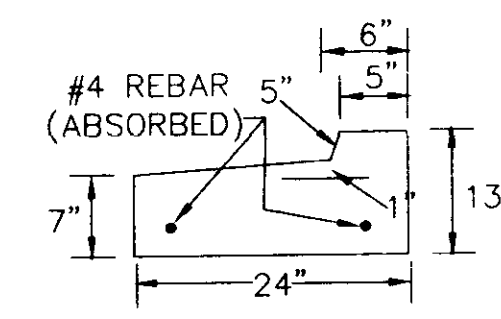
Erosion Control Measures To Be Applied On Indicated Areas ↓↓↓↓
As Per Seasonal Limitations.

Before Final Acceptance, Entire Right Of Way Shall Be Mowed By
The Contractor At No Cost To The Project.

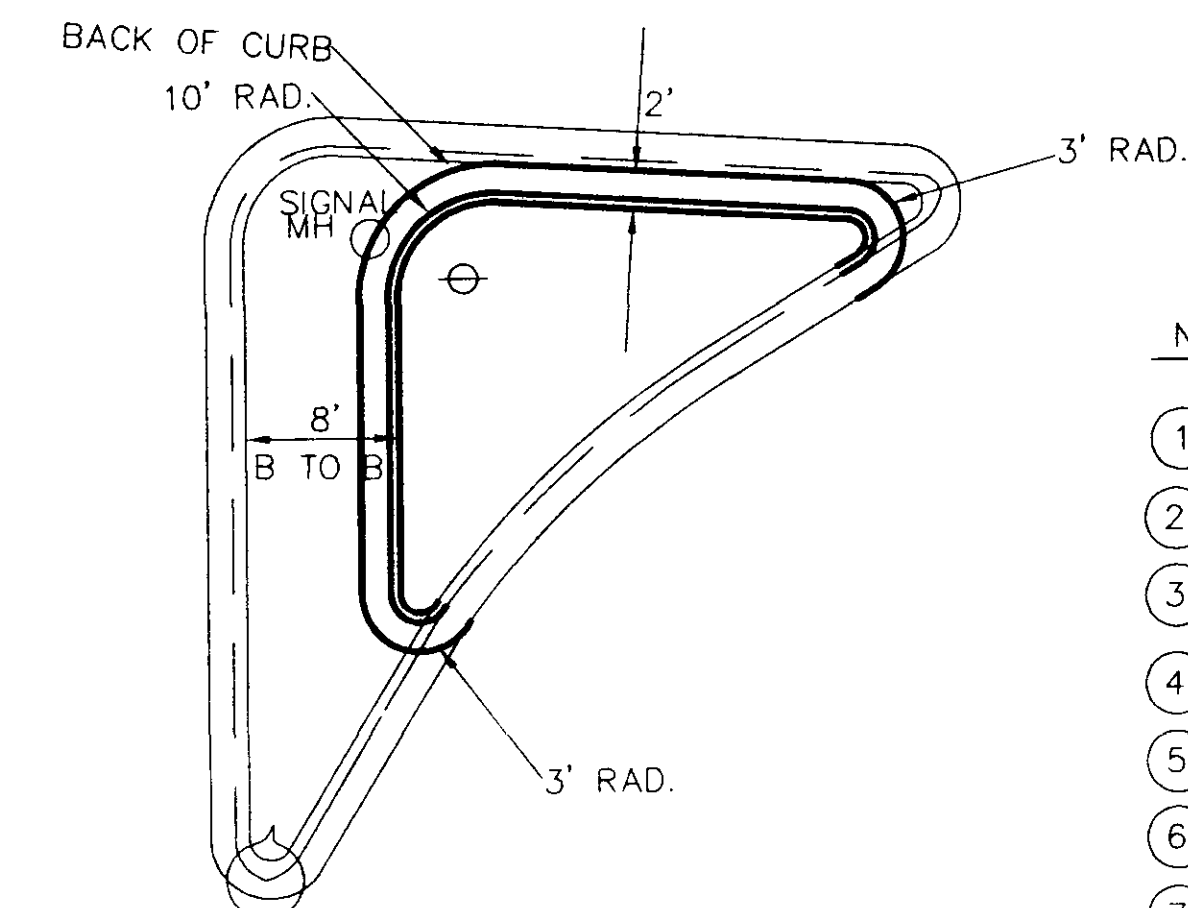
Clearing And Grubbing Of Construction Easements Necessary For Constructing
Slopes Along The Roadway Shall Be Considered As Normal Right Of Way And
Paid For By Lump Sum.



CURB DETAIL
TYPE "1A"

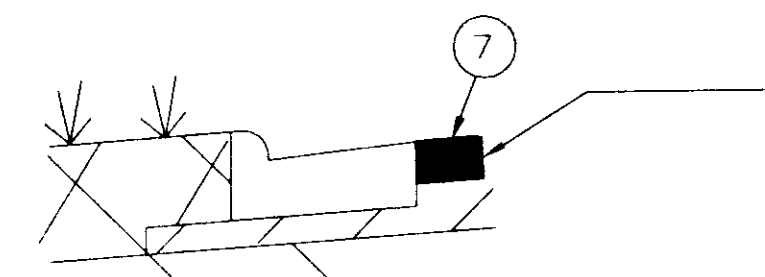


ROLL CURB DETAIL
TYPE "1A"-MODIFIED



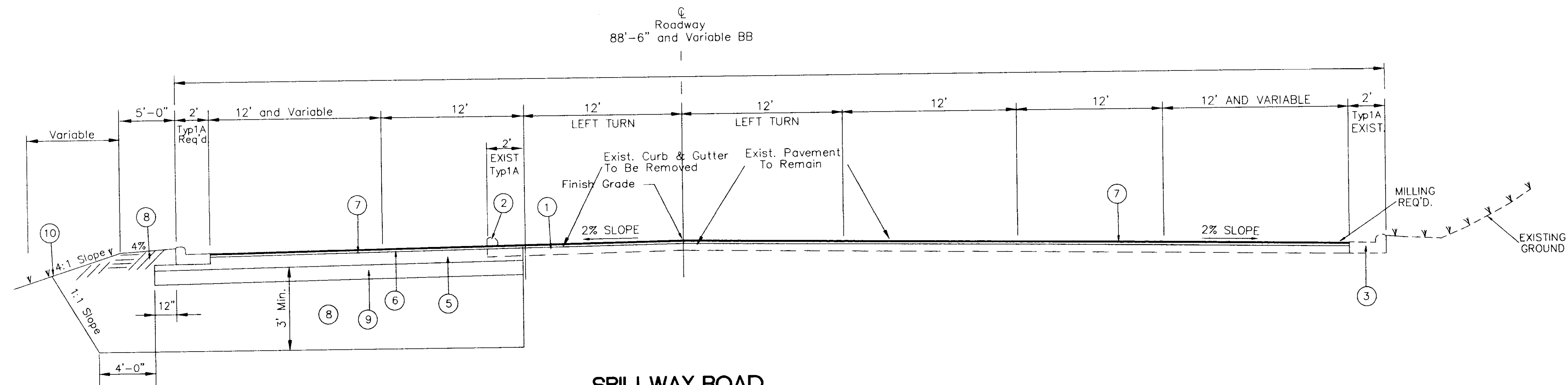
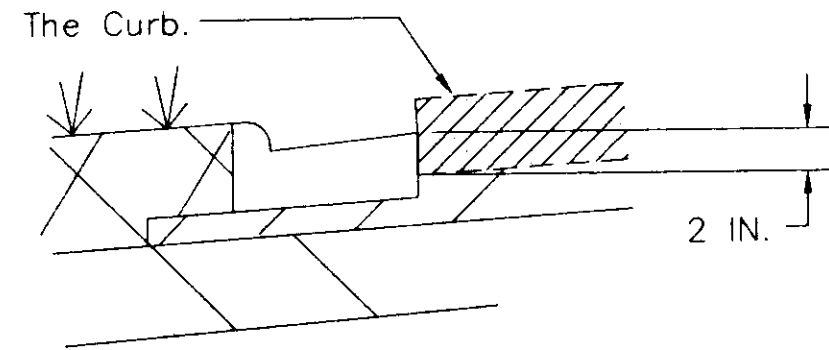
NOTES:

- ① Existing Asphalt Pavement (To Remain)
- ② Existing Combination Curb and Gutter, Type 1A (To Be Removed)
- ③ Existing Concrete Curb and Gutter, Type 1A (To Remain)
- ④ Existing Concrete Islands (To Remain)
- ⑤ 7 1/2" and Variable Plant Mix Hot Bituminous Base Course Required
- ⑥ 2" Hot Bituminous Pavement Binder Course Required
- ⑦ 1 1/2" Hot Bituminous Pavement Surface Course (SC-1) Required
- ⑧ Undercut/Borrow Excavation, Class B-15 Undercut/Excess Excavation
- ⑨ 6" Lime Treated Subgrade Req'd.
- ⑩ ↓↓↓↓ Indicates Area To Be Treated With Erosion Control Measures



NOTE:
Existing Asphalt To Be Milled
Adjacent To Curb A Minimum of 2 Inches
Below Top of Existing Gutter Line So It Will Finish-Out At The Curb.

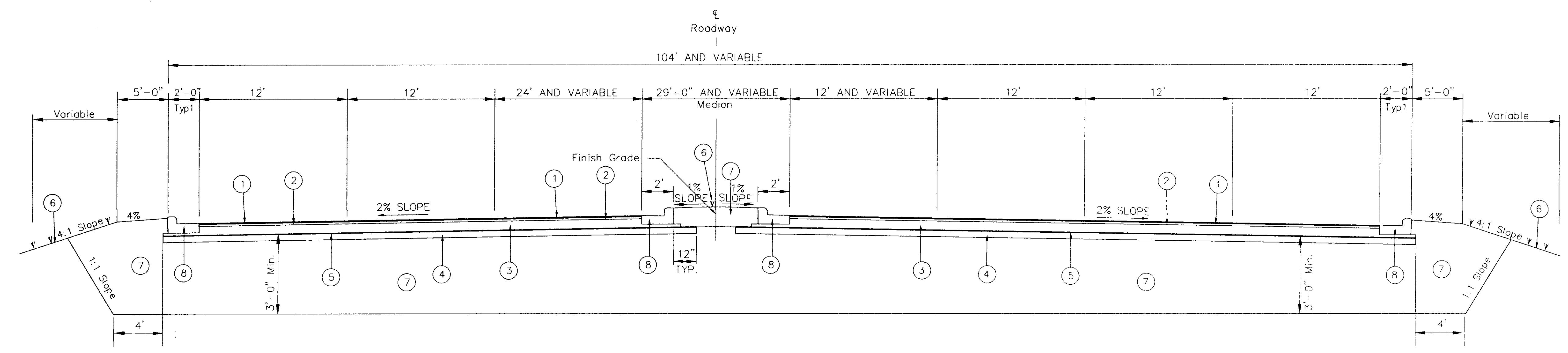
NOTE: New Asphalt Overlay Surface Shall
Reflect A Smooth Transition To The
Existing Gutter Line Per Detail.



SPILLWAY ROAD
TYPICAL GRADE, DRAIN, BASE, AND PAVE SECTION THRU TURN LANES

STA. 20+55.00 - STA. 22+20.00
NOT TO SCALE

SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)			
TYPICAL SECTIONS			
CITY OF RIDGELAND, MISSISSIPPI			
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi			
DRAWN BY: ELG.	DATE: 4-8-97	WORKING NUMBER	2
REVIEWED BY: B.S.	SCALE: N.T.S.	SHEET NUMBER	3

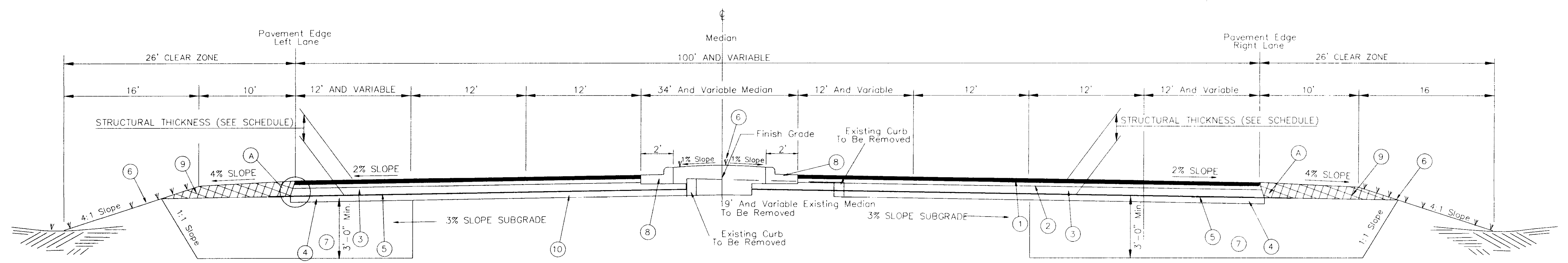


NOTES:

- ① 1 1/2" Hot Bituminous Pavement Surface (SC-1)Req'd.
- ② 2" Hot Bituminous Pavement Binder Course Req'd.
- ③ 7 1/2" Plant Mix Bituminous Base Course Req'd.
- ④ 6" Lime Treated Subgrade Req'd.
- ⑤ Bituminous Prime Coat Req'd (May Be Deleted When Permitted By The Engineer)
- ⑥ ↓ ↓ ↓ Indicates Area to be Treated with Erosion Control Measures
- ⑦ Borrow Excavation, Class B-15/Undercut
- ⑧ Combination Curb & Gutter, Type "1A" Required (See Detail Sheet)

**SPILLWAY ROAD
TYPICAL GRADE, DRAIN, BASE, AND PAVE SECTION THRU TURN LANES**

STA. 22+20.00 - STA. 26+20.00
NOT TO SCALE



NOTES:

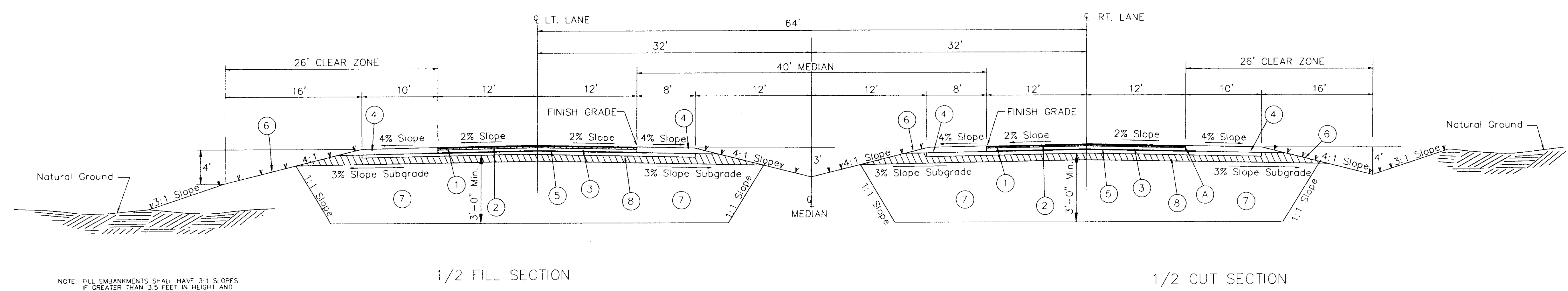
- ① 1 1/2" Hot Bituminous Pavement Surface (SC-1)Req'd.
- ② 2" Hot Bituminous Pavement Binder Course Req'd.
- ③ 7 1/2" & Variable Plant Mix Bituminous Base Course Req'd.
- ④ 6" Lime Treated Subgrade Req'd.
- ⑤ Bituminous Prime Coat Req'd (May Be Deleted When Permitted By The Engineer)
- ⑥ ↓ ↓ ↓ Indicates Area to be Treated with Erosion Control Measures
- ⑦ Undercut/Borrow Excavation B-15
- ⑧ Combination Curb & Gutter, Type "1A" Required (See Detail Sheet)
- ⑨ 11" & Variable Depth Granular Material (Cl.5, Gp. "C")
- ⑩ Existing Asphalt Pavement To Remain
- Ⓐ Angle of Repose Permitted $\frac{1}{7}$ 12

**SPILLWAY ROAD
TYPICAL GRADE, DRAIN, BASE, AND SURFACE SECTION WITH CONCRETE ISLAND**

NOT TO SCALE
STA. 57+90.00 - STA. 67+25.00

SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
TYPICAL SECTIONS		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: ELG	DATE: 4-9-97	WORKING NUMBER 2A
REVIEWED BY: B.S.	SCALE: N.T.S.	SHEET NUMBER 4

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NOTE: FILL EMBANKMENTS SHALL HAVE 3:1 SLOPES IF GREATER THAN 3.5 FEET IN HEIGHT AND 4:1 SLOPES IF LESS THAN 3.5 FEET IN HEIGHT. 4:1 SLOPES REQUIRED WITHIN CLEAR ZONE.

1/2 FILL SECTION

1/2 CUT SECTION

**SPILLWAY ROAD
TYPICAL GRADE, DRAIN, BASE AND SURFACE (4 LANE)**

NOT TO SCALE
STA. 26+20.00 TO STA. 57+90.00

NOTES:

- ① 1 1/2" Hot Bituminous Pavement Surface (SC-1)Req'd.
- ② 2" Hot Bituminous Pavement Binder Course Req'd.
- ③ 7 1/2" Plant Mix Bituminous Base Course Req'd.
- ④ 11" & Variable Depth Granular Material (CL 5, GP. "C")
- ⑤ Bituminous Prime Coat Req'd (May Be Deleted When Permitted By The Engineer)
- ⑥ ↓ ↓ ↓ ↓ Indicates Area to be Treated with Erosion Control Measures
- ⑦ Undercut/Borrow Excavation, Class B-15
- ⑧ 6" Lime Treated Subgrade Req'd.
- Ⓐ Angle of Repose Permitted $\frac{12}{7}$

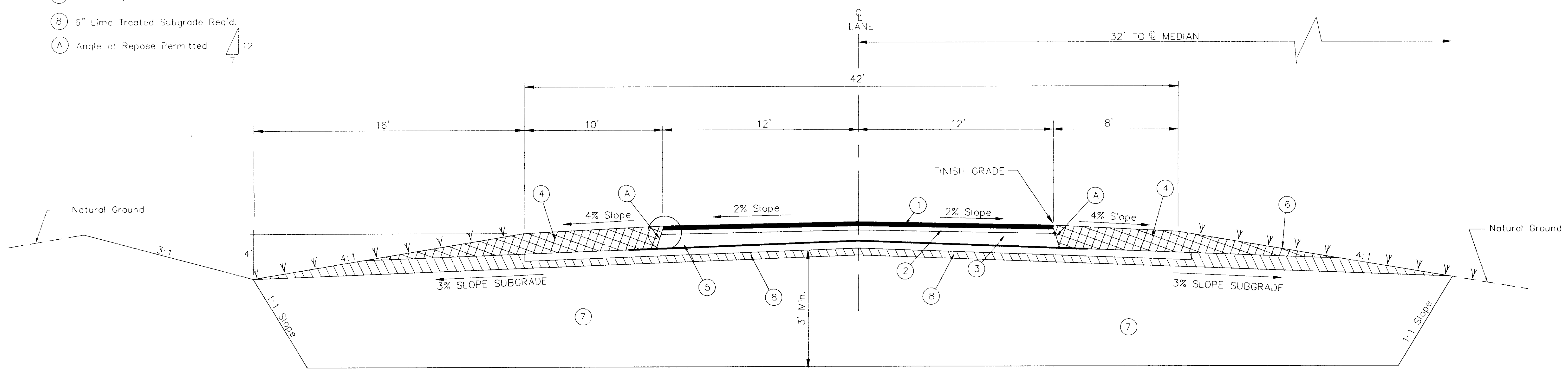
GENERAL NOTES

Erosion Control Measures To Be Applied On Indicated Areas ↓ ↓ ↓ ↓
As Per Vegetation Schedule.

Before Final Acceptance, Entire Right Of Way shall be Mowed by The Contractor at no cost to The Project

Clearing And Grubbing Of Construction Easements Necessary For Construction Slopes Along The Roadway Shall Be Considered As Normal Right-Of-Way And Paid For By Lump Sum.

Turn Lanes And Median Cross-over To Be Constructed Consistent With Typical Section And Applicable Notes, Notes ①, ②, ③, ⑤, ⑦, And ⑧. Shoulder Width To Be Consistent With Typical Section.



**SPILLWAY ROAD
TYPICAL GRADE, DRAIN, BASE AND SURFACE (4 LANE)**

NOT TO SCALE
STA. 26+20.00 TO STA. 57+90.00

SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)	
TYPICAL SECTIONS	
CITY OF RIDGELAND, MISSISSIPPI	
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi	
DRAWN BY: E.L.G.	DATE: 4-9-97
REVIEWED BY: B.S.	SCALE: N.T.S.
WORKING NUMBER 2B	SHEET NUMBER 5

C:\msdpro\94506\TYPSEC 10 11 03 08 20 05 1997

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	TOTAL QUANTITIES		UNIT
		PLAN	FINAL	
201-A	Clearing and Grubbing	1.0		LS
202-A	Removal of Obstructions	1.0		LS
202-B	Removal of Existing Striping	1.0		LS
203-A	Unclassified Excavation (AH)(FM)	11893		CY
907-203-EX	Borrow Excavation, (AH) (FME)(CLASS B-14)(CONTRACTOR FURNISHED)	94400		CY
203-F	Channel Excavation (FM)	10300		CY
203-G	Excess Excavation (FM) (AH)	52209		CY
206-A	Structure Excavation	6300		CY
212-B	Standard Ground Preparation	20800		SY
213-B	Combination Fertilizer(13-13-13)	5.5		TON
214-A	Seeding(Unhulled Bermuda)	12		ACRE
214-A	Seeding (Tall Fescue)	12		ACRE
214-A	Seeding (Crimson Clover)	12		ACRE
907-214-C	Seeding (Wild Flower Mix)	.55		ACRE
215-A	Vegetative Materials For Mulch	5.5		TON
216-A	Solid Sodding	4700		SY
217-A	Ditch Lining	480		SY
218-A	Fiberglass Roving	140		LB
218-B	Bituminous Material for Fiberglass Roving	140		GAL
221-A	Portland Cement Concrete Paved Ditch	7		CY
907-230-A	Shrub Planting (Indian Hawthorne)	50		EA
907-230-A	Shrub Planting (Clyera)	49		EA
907-230-B	Tree Planting (Slash Pine)	93		EA
907-230-B	Tree Planting (Red Maple)	51		EA
907-230-B	Tree Planting (Bradford Pear)	124		EA
907-230-B	Tree Planting (Crepe Myrtle)	72		EA
907-230-B	Tree Planting (Little Leaf Linden)	156		EA
907-230-B	Tree Planting (Blood Leaf Maple)	15		EA
907-230-C	Ground Cover Planting (Blue Pacific Juniper)	75		EA
907-230-C	Ground Cover Planting (Asian Jasmine)	8050		EA
233-C	Straw Mulch (Class II)	9.5		TON
234-A	Temporary Silt Fence	11150		LF
235-A	Temporary Erosion Checks	312		FER BALE
907-301-2	Plant Mix Bituminous Base Course(BB)	17000		ION
304-C	Granular Material(AEA),(Class 5, Group C)	6600		CY
907-307-E	6" Soil Lime Water Mixing (Class C)(Slurry Application Only)	38750		SY
907-307-D	Lime	580		ION
907-403-B	Hot Bituminous Pavement, Binder Course(BC-1)	4870		TON
907-403-C	Hot Bituminous Pavement, Surface Course(SC-1)	4200		TON
406-A	Cold Milling of Bituminous Pavement (All Depths)	250		SY
601-A	Class B Structural Concrete	675		CY
601-B	Class B Structural Concrete, Minor Structures	52		CY
602-A	Reinforcing Steel	111500		LB
603-C-A	66" Reinforced Concrete Pipe Class III	20		LF
603-C-A	60" Reinforced Concrete Pipe Class III	298		LF
603-C-A	54" Reinforced Concrete Pipe Class III	32		LF
603-C-A	48" Reinforced Concrete Pipe Class III	28		LF
603-C-A	36" Reinforced Concrete Pipe Class III	360		LF
603-C-A	30" Reinforced Concrete Pipe Class III	239		LF
603-C-A	24" Reinforced Concrete Pipe Class III	308		LF
603-C-A	18" Reinforced Concrete Pipe Class III	1501		LF
603-C-B	66" Reinforced Concrete End Section	1		EA
603-C-B	36" Reinforced Concrete End Section	8		EA
603-C-B	24" Reinforced Concrete End Section	5		EA
603-C-B	18" Reinforced Concrete End Section	17		EA
603-C-E	65" x 40" Concrete Arch Pipe, Class A-III	24		LF
603-C-E	58" x 36" Concrete Arch Pipe, Class A III	144		LF
603-C-F	65" x 40" Concrete Arch Pipe End Section	1		EA
604-B	Gratings	5500		LB
907-604-C-PP	Type A Single Inlets (Per Plans)	6.0		EA
907-604-D-PP	Type A Double Inlets (Per Plans)	4.0		EA
907-604-E-PP	Type A Double Inlets (Per Plans)	3.0		EA
907-609-F-PP	Combination Concrete Curb and Gutter (Type 1-A)(Per Plans)	3880		LF
907-610-A	Drainage Gate (25" Seating Head)	1		EA
613-A	Adjustment of Castings, Gratings, and Utility Appurtenances	1		LS
613-D	Adjustment Of Sewer Manhole	1		LS
614-B	Concrete Driveway With Reinforcement	480		SY
616-A	Concrete Median and/or Island Pavement (4")	10		SY
618-A	Maintenance of Traffic	1		LS
907-619-A1	Temporary Traffic Stripe (Continuous White)	16500		LF
907-619-A2	Temporary Traffic Stripe (Continuous Yellow)	16200		LF
907-619-D1	Standard Roadside Construction Signs (Less than 10 sf)	352		SF
907-619-D2	Standard Roadside Construction Signs (10 sf or more)	398		SF
907-619-D3	Remove and Reset Signs (All Sizes)	38		EA
907-619-G4	Barricades (Type III)	21		EA
907-619-G5	Free Standing Plastic Drums	240		LF
620-A	Mobilization	1		LS
907-626-A	4" Thermoplastic Traffic Stripe (Skip White)(90Mils) or	1.85		MI
907-628-I	4" High Performance Cold Plastic Traffic Stripe (Skip, White)	1.85		MI
907-626-B	4" Thermoplastic Traffic Stripe (Continuous White)(90 Mils) or	0.08		MI
907-628-J	4" High Performance Cold Plastic Traffic Stripe (Continuous White)	0.08		MI
907-626-C	4" Thermoplastic Edge Stripe (Continuous White)(60 Mils) or	1.55		MI
907-628-K	4" High Performance Cold Plastic Edge Stripe (Continuous White)	1.55		MI
907-626-E	4" Thermoplastic Traffic Stripe (Continuous Yellow)(90 Mils) or	2.2		MI
907-628-M	4" High Performance Cold Plastic Traffic Stripe (Continuous Yellow)	2.2		MI
907-626-G	Thermoplastic Detail Stripe, (4" Equivalent), (White)(90 Mils) or	2915		LF
907-628-O	High Performance Cold Plastic Detail Stripe (4" Equivalent Length)(White)	2915		LF
907-626-G	Thermoplastic Detail Stripe, (4" Equivalent), (Yellow)(90 Mils) or	2590		LF
907-628-O	High Performance Cold Plastic Detail Stripe (4" Equivalent Length)(Yellow)	2590		LF
907-626-H	Thermoplastic Legend, (White)(120 Mils) or	1594		LF
907-628-P	High Performance Cold Plastic Legend (White)	1594		LF
907-627-C	Red-Clear Reflective Raised Markers	460		EA
907-627-D	Two-Way Yellow Reflective Raised Markers	195		EA
630-A	Standard Roadside Signs, (Sheet Aluminum)	240		SF
630-C	Steel U-Section Posts, (3 to 3.5 LB/LF)	816		LF
630-G	Type III Object Markers, (OM 3L),(Black & Yellow),(0.080"),(Post Mounted)	4		EA
630-G	Type III Object Markers, (OM 3R),(Black & Yellow),(0.080"),(Post Mounted)	6		EA

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	TOTAL QUANTITIES		UNIT
		PLAN	FINAL	
908-635-A	Vehicle Loop Assemblies	5048		LF
908-636-A	Shielded Cable	1230		LF
908-638-A	Loop Detector Amplifier, Card Rock Mounted (4 Channel)	4		EA
908-639-A	Traffic Signal Equipment Pole (Single Mast Arm)(30" Shaft)(32' Arm)	1		EA
908-639-A	Traffic Signal Equipment Pole (Single Mast Arm)(30" Shaft)(44' Arm)	2		EA
908-639-A	Traffic Signal Equipment Pole (Signal Mast Arm)(30" Shaft)(45' Arm)	1		EA
908-639-A	Traffic Signal Equipment Pole (Signal Mast Arm)(30" Shaft)(48' Arm)	2		EA
908-640-A	Traffic Signal Heads (Type 1)	11		EA
908-640-A	Traffic Signal Heads (Type 6)	4		EA
908-640-A	Traffic Signal Heads (Type 7)	3		EA
908-642-A	Solid State Traffic Actuated Controller (Type 8-A)	1		EA
908-644-A	Optical Detector	4		EA
908-644-B	Optical Detector Cable	815		LF
908-644-C	Phase Selector, (4 Channel)	2		EA
908-647-A	Pullboxes (Type I)	2		EA
908-647-A	Pullboxes (Type II)	3		EA
908-647-A	Pullboxes (Type III)	3		EA
907-653-B	Street Name Sign (Encapsulated Lens)	55		SF
908-666-B	Electric Cable (Underground in Conduit),(Power), (AWG # 6), (2 Conductor)	40		LF
908-666-B	Electric Cable (Underground in Conduit),(Luminaire), (AWG # 10), (2 Conductor)	630		LF
908-666-B	Electric Cable (Underground in Conduit)(Signal Cable), (AWG # 14), (5 Conductor)	1940		LF
908-666-B	Electric Cable (Underground in Conduit)(Signal Cable), (AWG # 14), (7 Conductor)	980		LF
908-668-A	Traffic Signal Conduit, (Underground),(Type I),(3")	50		LF
908-668-A	Traffic Signal Conduit, (Underground),(Type IV),(2")	740		LF
908-668-A	Traffic Signal Conduit, (Underground),(Type IV),(3")	40		LF
908-668-B	Traffic Signal Conduit, (Jacked), (Type IV),(2")	180		LF
908-668-B	Traffic Signal Conduit, (Jacked), (Type IV),(3")	310		LF
908-679-A	Lighting Assembly (Low Mast), (250 Watt High Pressure Sodium Lamp)	6		EA
907-699-1-A	Roadway Construction Stakes	1		LS
815-A	Loose Riprap (150#)	22		TON
815-A	Loose Riprap (200#)	224		TON
815-A	Loose Riprap (300#)	130		TON
815-A	Loose Riprap (400#)	4000		TON
815-E	Geotextile Fabric Under Riprap (Type III), (LUS 20 - 100)	4000		SY
BOX BRIDGE ITEMS				
602-A	Reinforcing Steel	154500		LB
604-B	Box Bridge Concrete, (Class B)	1450		CY
Non-Participating Water & Sewer Rehabilitation				
1000	12" Ductile Iron Water Main	225		LF
1001	8" Ductile Iron Water Main	425		LF
1002	12"x12" Lapping Sleeve and Valve with Box	2		EA
1003	8"x8" Trapping Sleeve and Valve with Box	2		EA
1004	Ductile Iron Fittings	550		LB

GENERAL NOTES

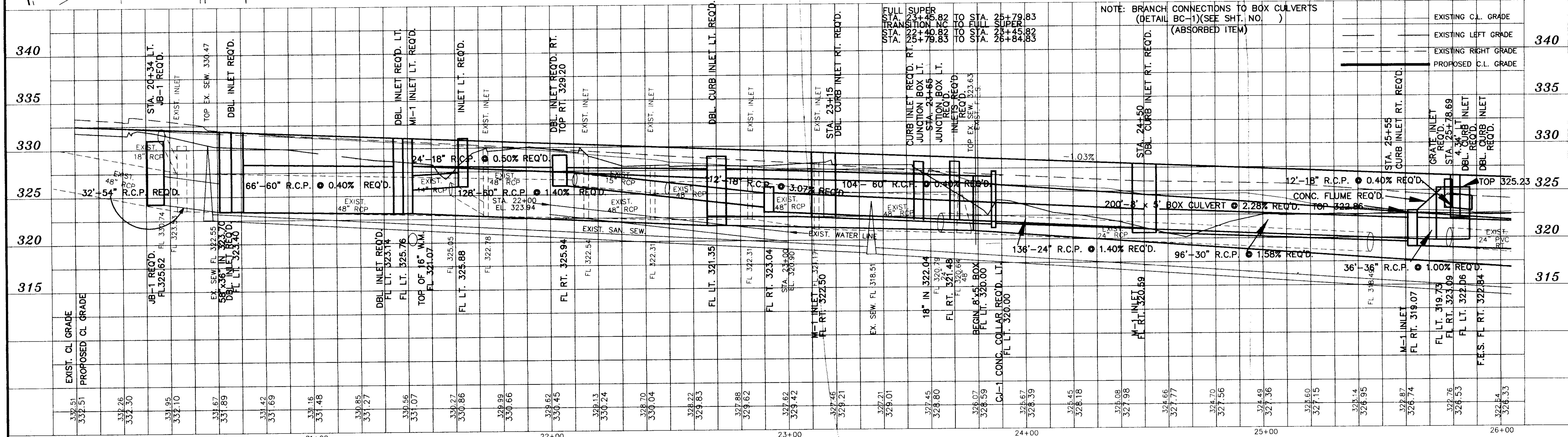
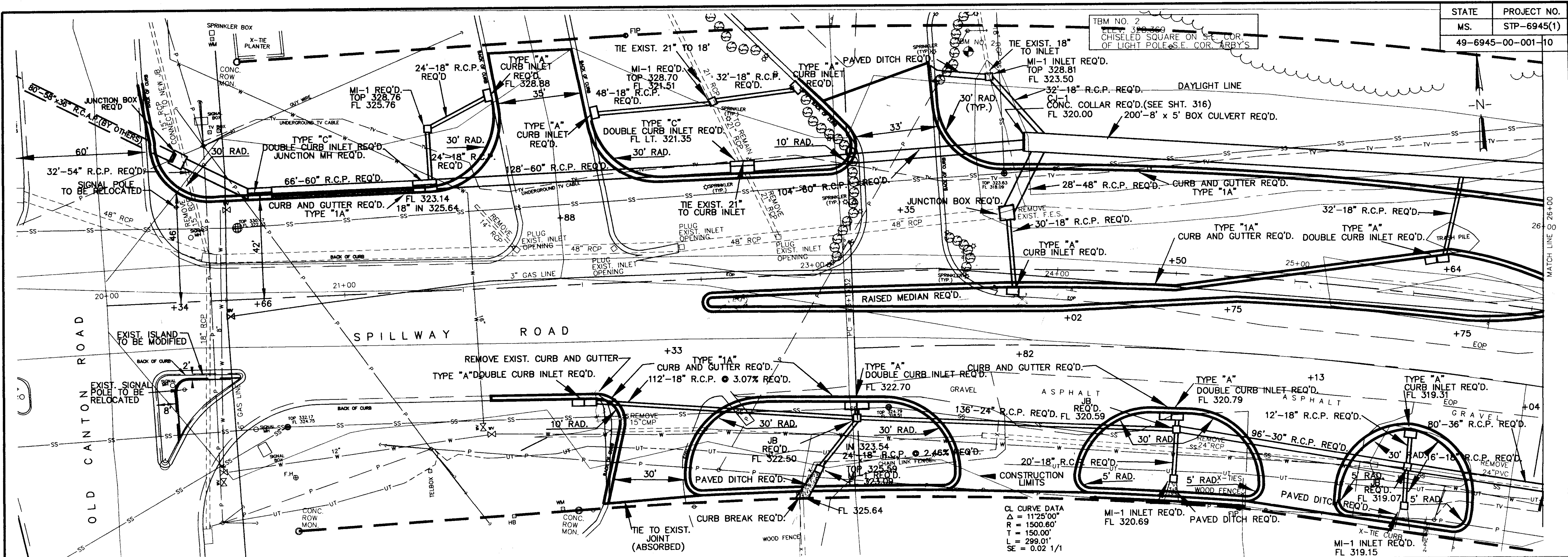
1. INCLUDES REMOVAL OF CURB AND GUTTER
2. INCLUDES STRUCTURE EXCAVATION OF BOX BRIDGE
3. QUANTITY FOR LEVEE - 5834 CY. (ABSORBED HAUL/EXCFE)
4. REMAINING CHANNEL EXCAVATION IS EXCESS

SPILLWAY LINE ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)

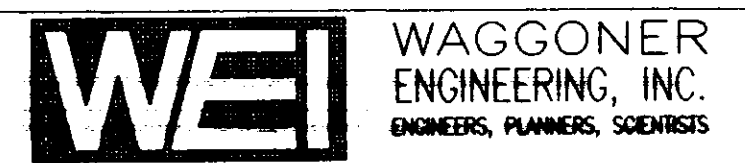
SUMMARY OF QUANTITIES
CITY OF RIDGELAND, MISSISSIPPI

WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: B.J.	DATE: 7-10-97	SHEET NUMBER
REVIEWED BY: B.S.	SCALE: 1"=30'	8



NO.	DATE	REVISIONS	DESIGNED	DATE	SCALE	BY

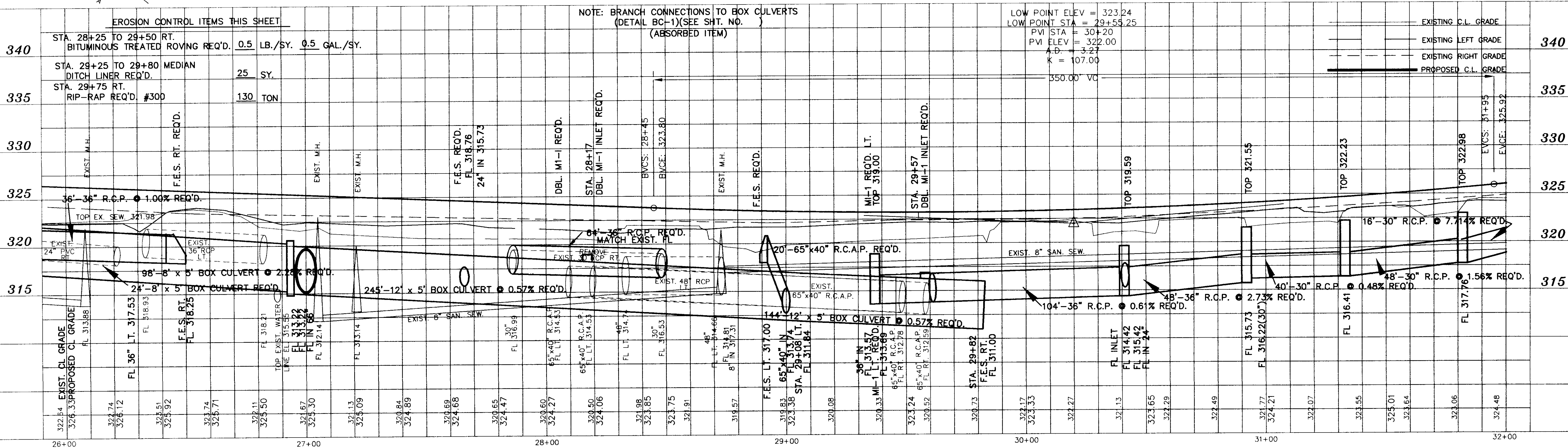
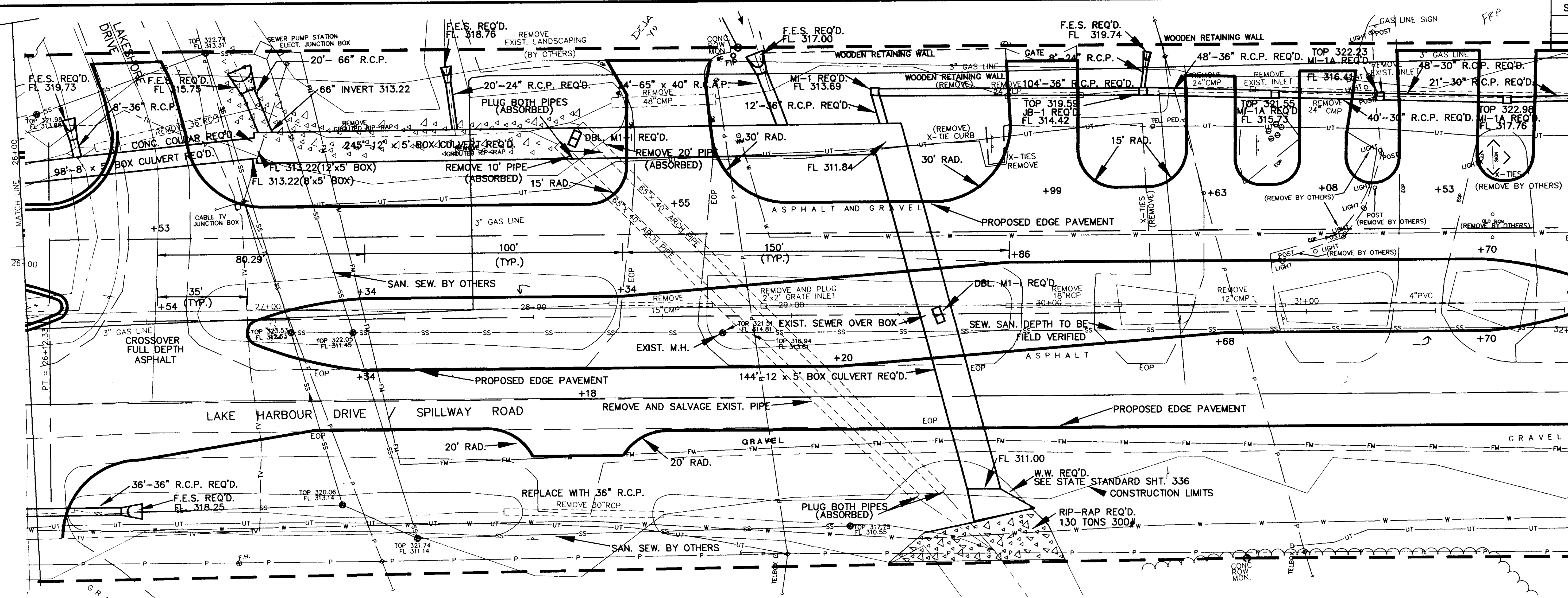
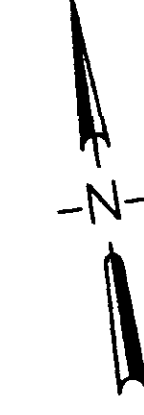


WAGGONER ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

PROJECT NO. STP-6945(1)/49-6945-00-001-10
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

ACAD PATH ROUTE
C:\P\94150E\PROFILE
W.E.I. JOB NO.
94-150E

WORKING NUMBER 3
SHEET NUMBER 10

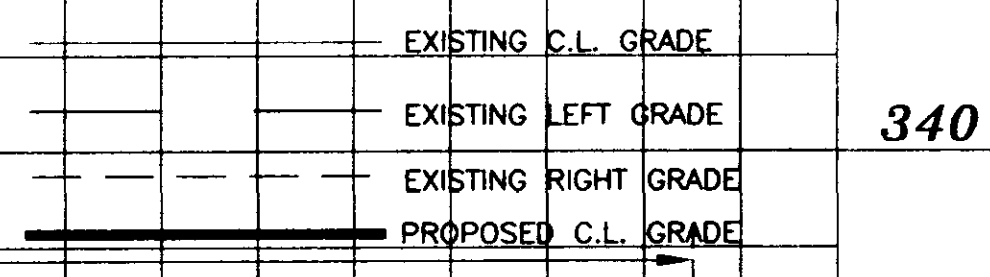


EROSION CONTROL ITEMS THIS SHEET

340	STA. 28+25 TO 29+50 RT. BITUMINOUS TREATED ROVING REQ'D.	0.5 LB./SY.	0.5 GAL./SY.
	STA. 29+25 TO 29+80 MEDIAN DITCH LINER REQ'D.	25 SY.	
335	STA. 29+75 RT. RIP-RAP REQ'D. #300	130 TON	

NOTE: BRANCH CONNECTIONS TO BOX CULVERTS (DETAIL BC-1)(SEE SHT. NO.) (ABSORBED ITEM)

LOW POINT ELEV = 323.24
LOW POINT STA = 29+55.25
PVI STA = 30+20
PVI ELEV = 322.00
A.D. = 3.27
K = 107.00
350.00' VC



NO.	DATE	REVISIONS	BY

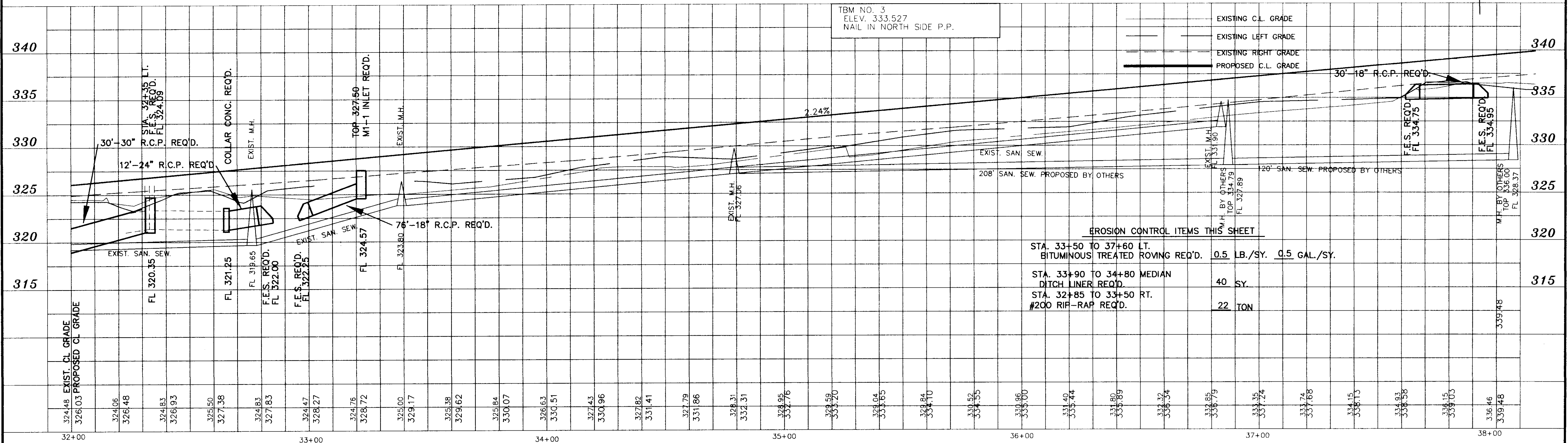
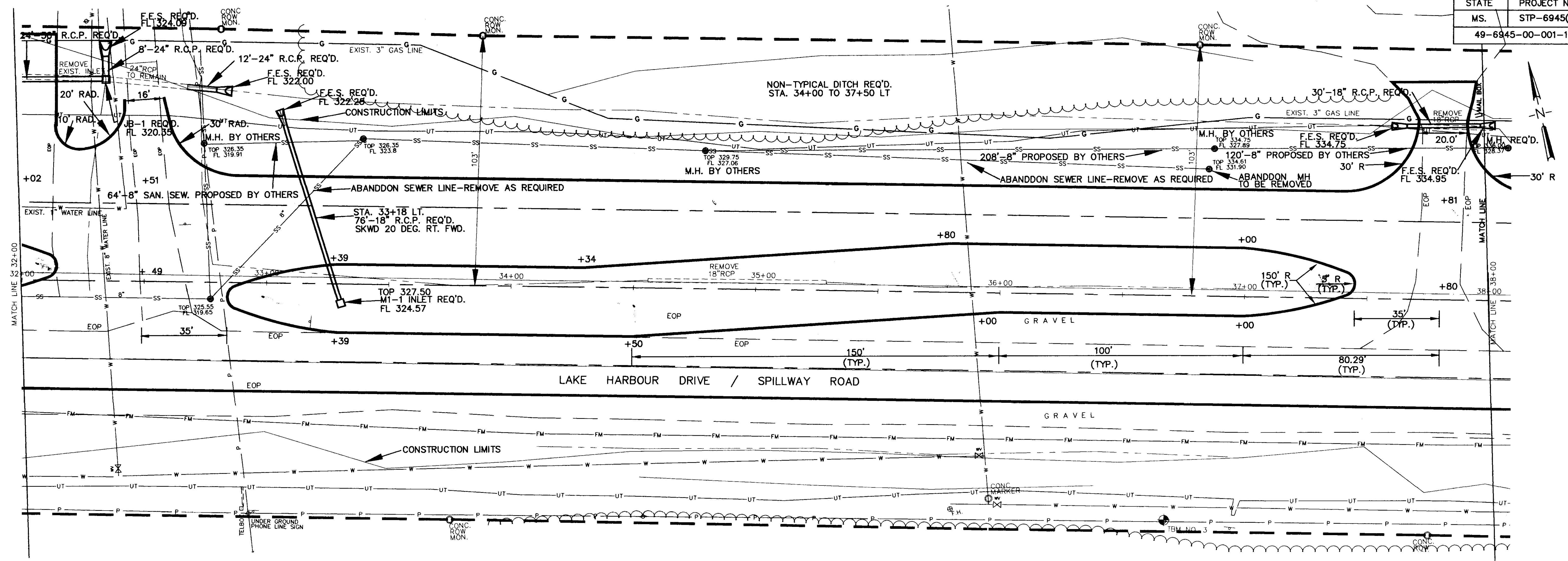
DESIGNED	DATE	DRAWN	SCALE
			1" = 20' HORT. 1" = 5' VERT.



WAGGONER ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

PROJECT NO. STP-6945(1)/49-6945-00-001-10
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

ACAD PATH ROUTE	WORKING NUMBER
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W.E.I. JOB NO.	SHEET NUMBER
94-1506	11

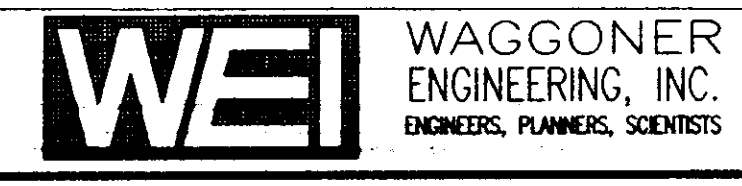


EROSION CONTROL ITEMS THIS SHEET

STA. 33+50 TO 37+60 LT.	BITUMINOUS TREATED ROVING REQ'D.	0.5 LB./SY.	0.5 GAL./SY.
STA. 33+90 TO 34+80 MEDIAN	DITCH LINER REQ'D.	40	SY.
STA. 32+85 TO 33+50 RT.	#200 RIF-RAP REQ'D.	22	TON

NO.	DATE	REVISIONS

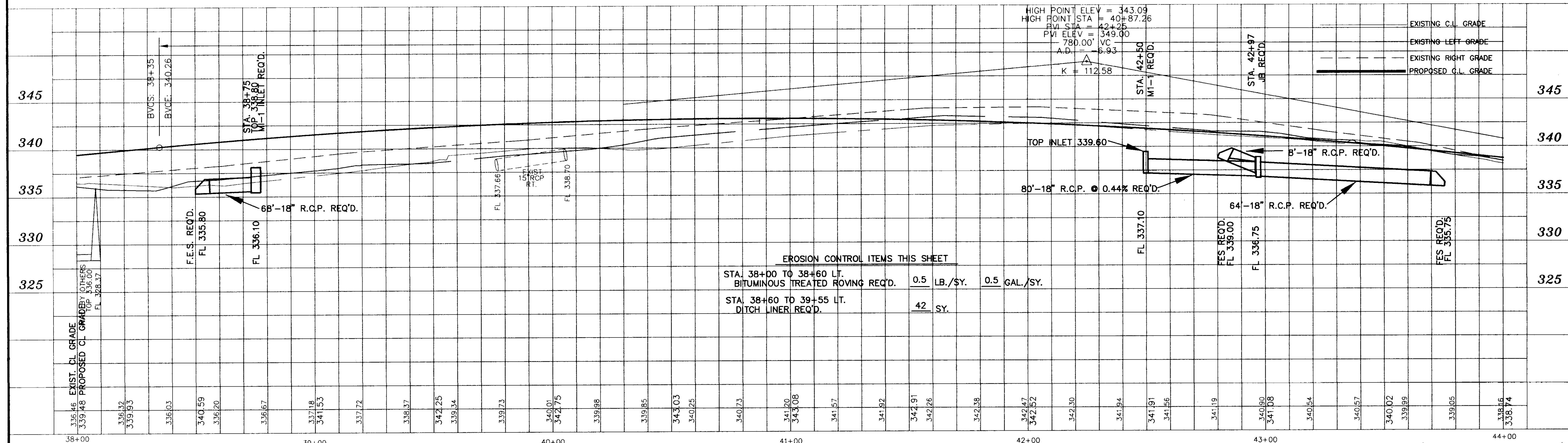
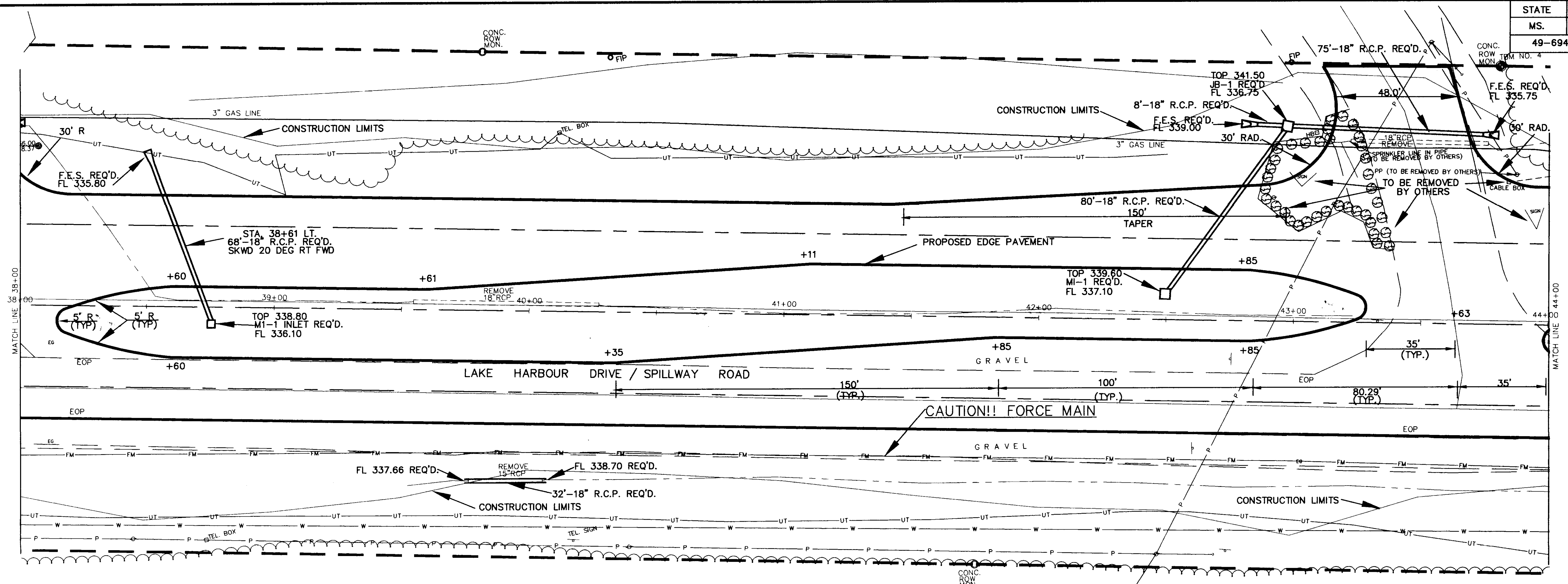
DESIGNED	DATE
DRAWN	SCALE
BY	1" = 20' HORIZ.
	1" = 5' VERT.



PROJECT NO. STP-6945(1)/49-6945-00-001-10
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

ACAD PATH ROUTE	WORKING NUMBER
C:\P\94150E\PROF	5
W.E.I. JOB NO.	SHEET NUMBER
	12

C:\49592701\94150E\PROF.I.E. Tue Jul 08 13:23:24 1997



EROSION CONTROL ITEMS THIS SHEET

STA. 38+00 TO 38+60 LT.
BITUMINOUS TREATED ROVING REQ'D. 0.5 LB./SY. 0.5 GAL./SY.

STA. 38+60 TO 39+55 LT.
DITCH LINER REQ'D. 42 SY.

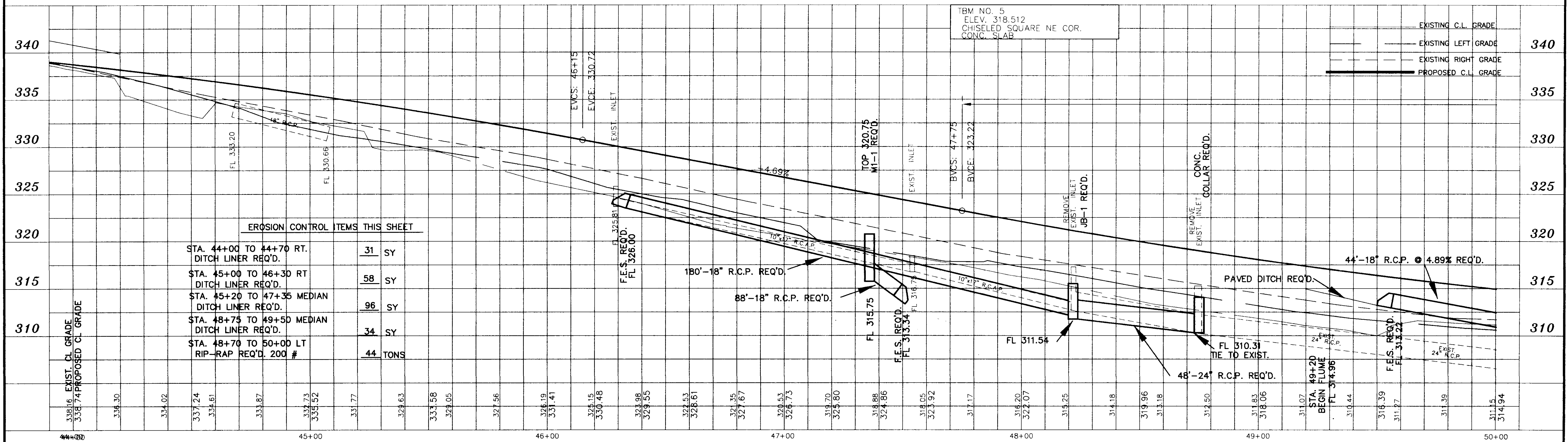
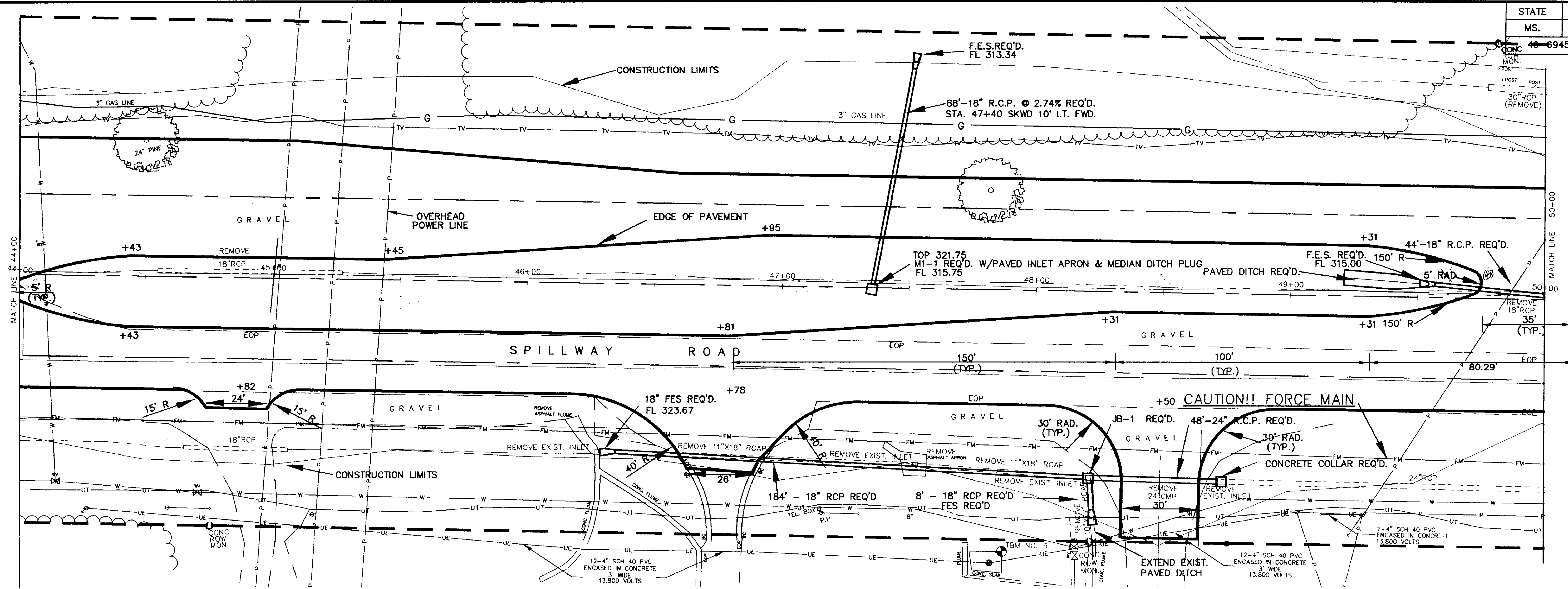
NO.	DATE	BY	DESIGNED	DATE	SCALE
					1" = 20' HORT. 1" = 5' VERT.



WAGGONER ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

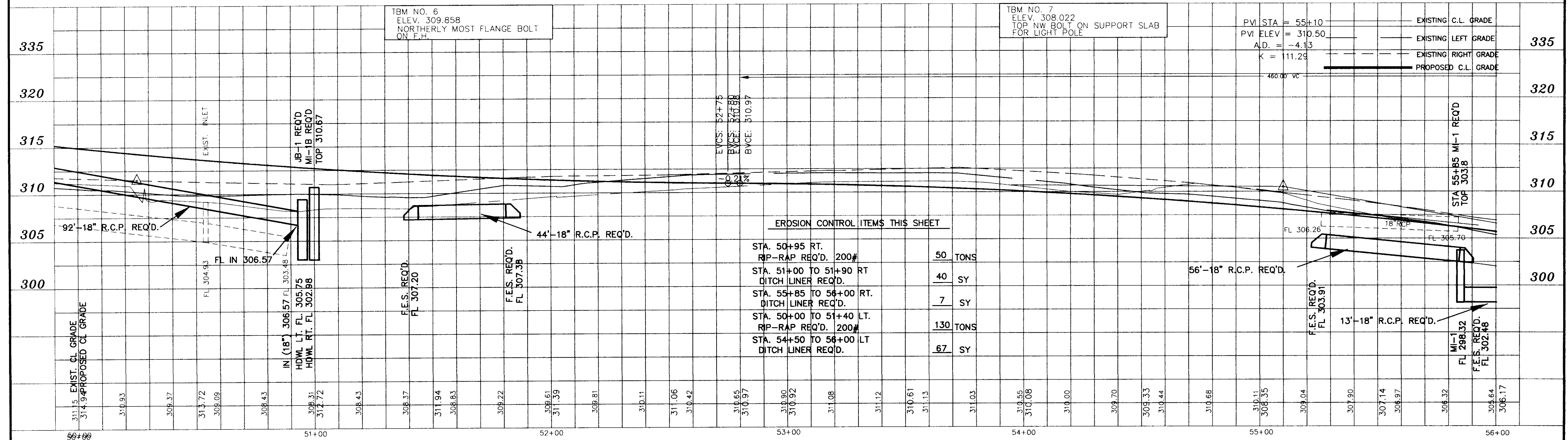
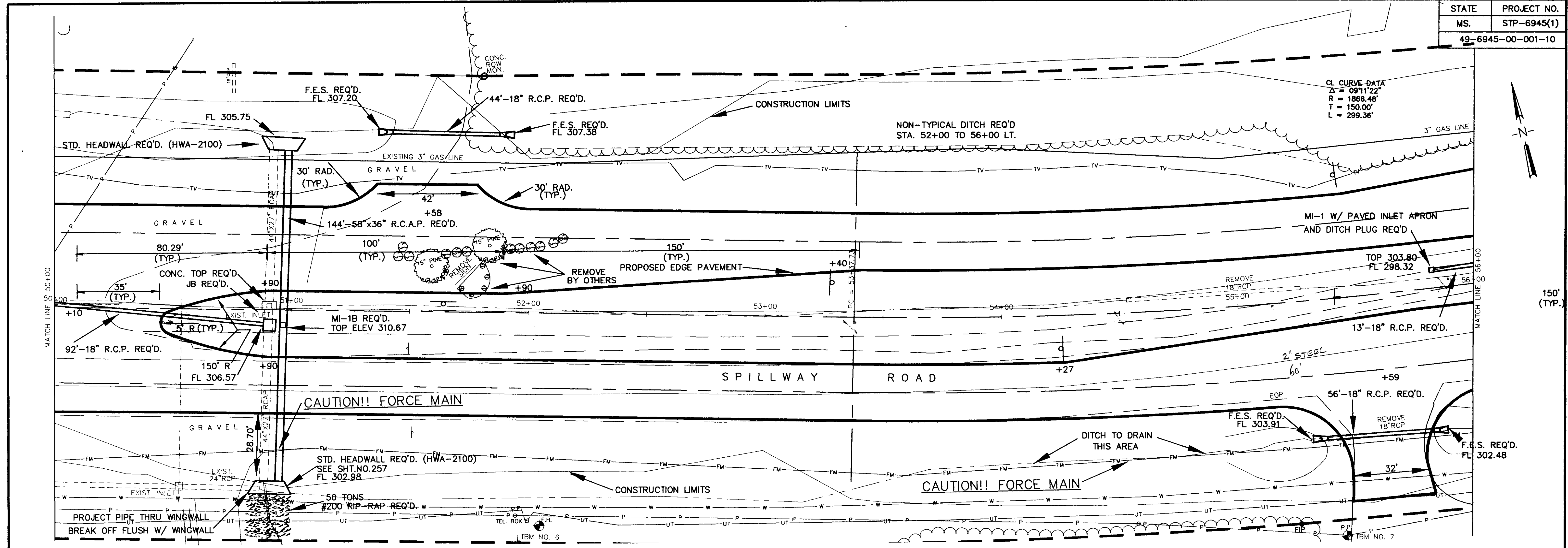
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CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

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WORKING NUMBER 6
SHEET NUMBER 13

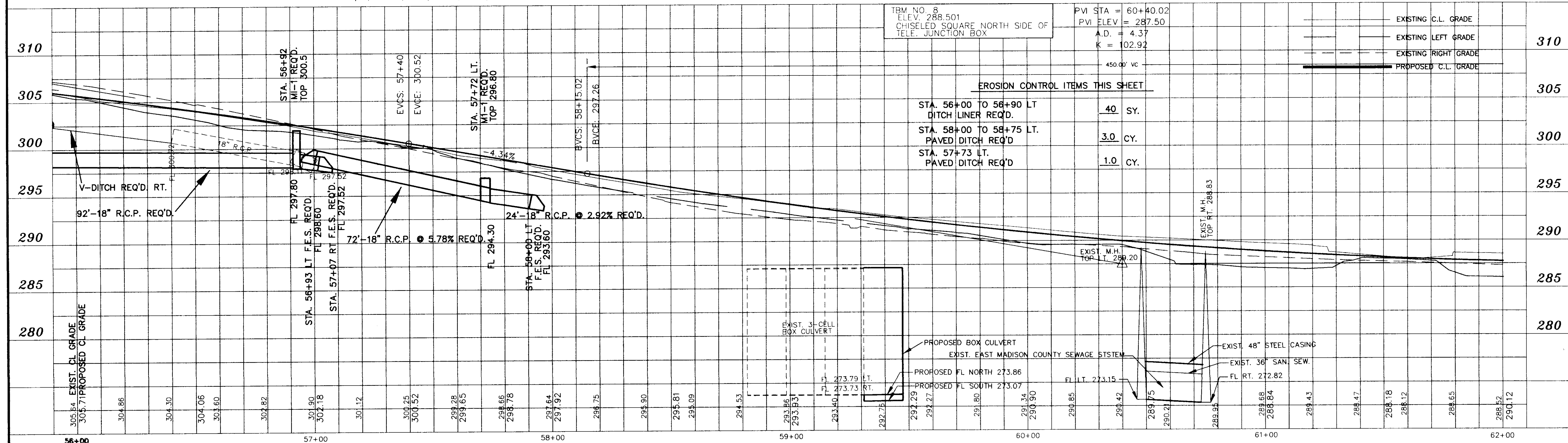
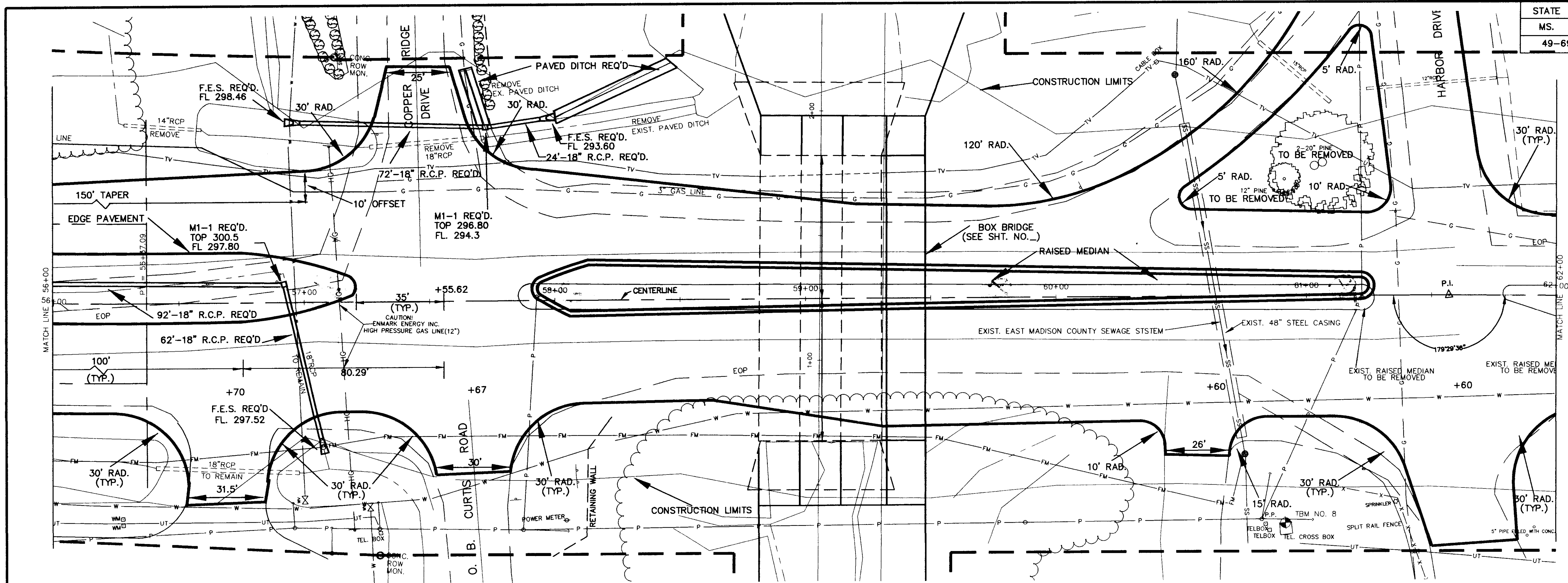


EROSION CONTROL ITEMS THIS SHEET		
STA. 44+00 TO 44+70 RT. DITCH LINER REQ'D.	31	SY
STA. 45+00 TO 46+30 RT. DITCH LINER REQ'D.	58	SY
STA. 45+20 TO 47+35 MEDIAN DITCH LINER REQ'D.	96	SY
STA. 48+75 TO 49+50 MEDIAN DITCH LINER REQ'D.	34	SY
STA. 48+70 TO 50+00 LT RIP-RAP REQ'D. 200 #	44	TONS

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C:\msdpro\134150e\PPDF-1LE Tue Jul 08 14:02:27 1997



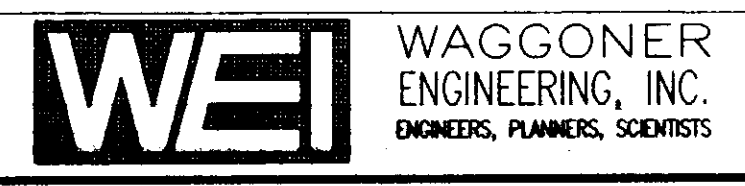
TBM NO. 8
ELEV. 288.501
CHISELED SQUARE NORTH SIDE OF
TELE. JUNCTION BOX

PVI STA = 60+40.02
PVI ELEV = 287.50
A.D. = 4.37
K = 102.92
450.00' VC

EROSION CONTROL ITEMS THIS SHEET

STA. 56+00 TO 56+90 LT DITCH LINER REQ'D.	40 SY.
STA. 58+00 TO 58+75 LT. PAVED DITCH REQ'D	3.0 CY.
STA. 57+73 LT. PAVED DITCH REQ'D	1.0 CY.

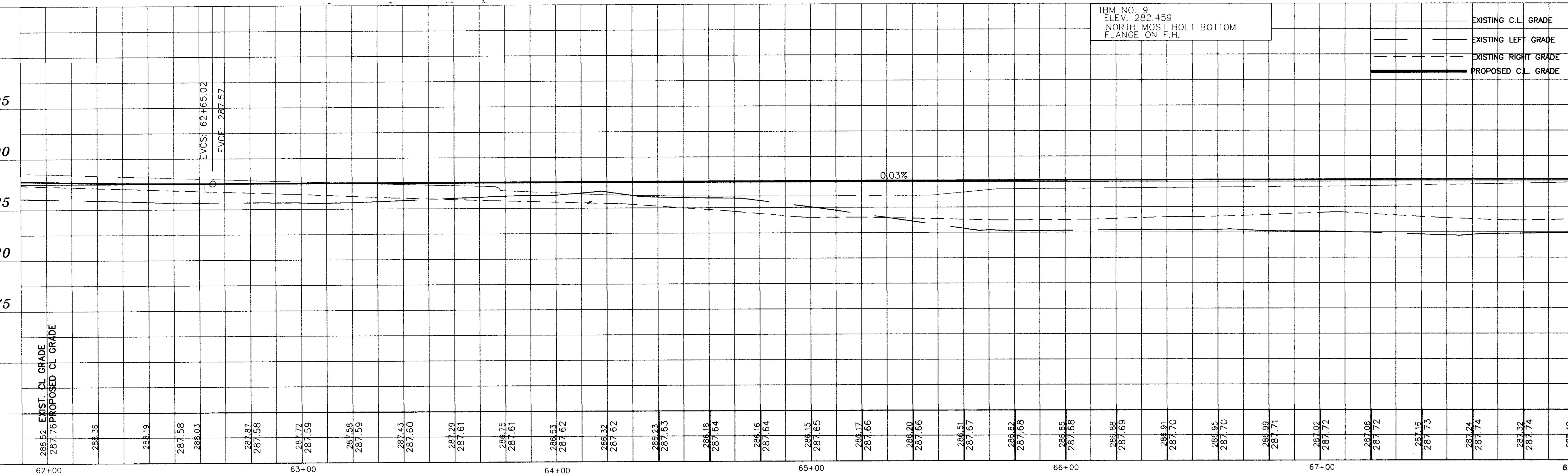
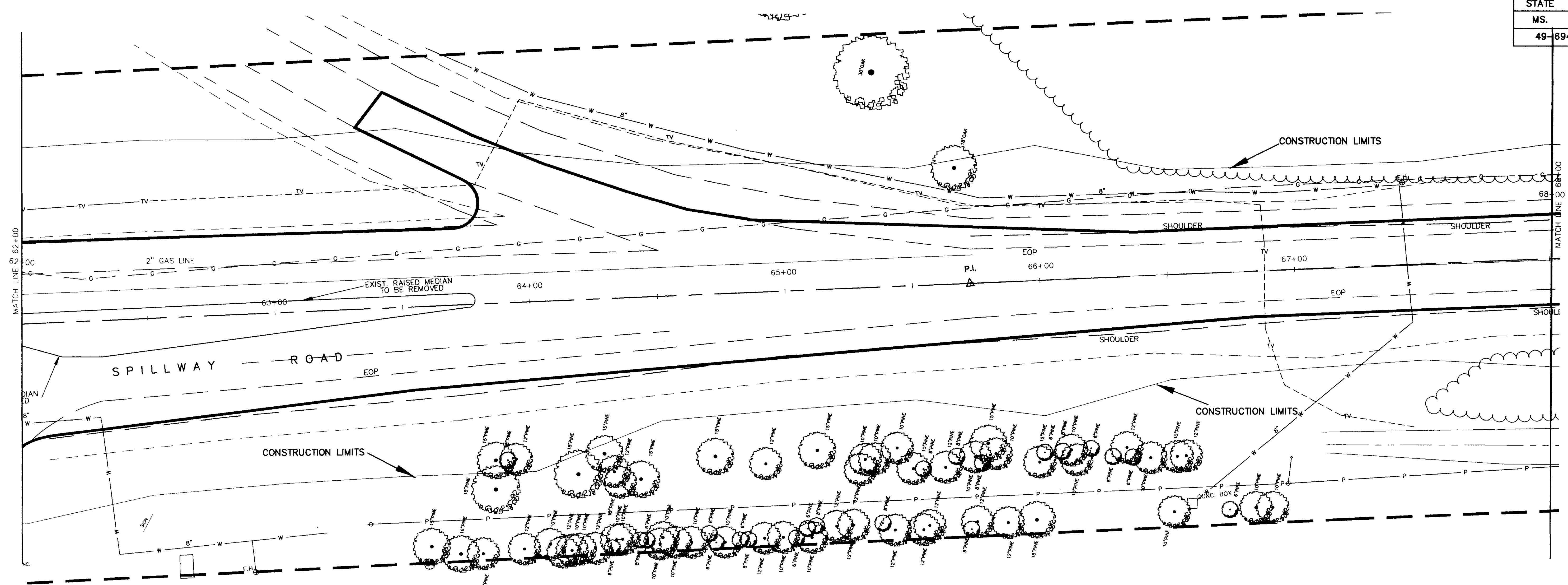
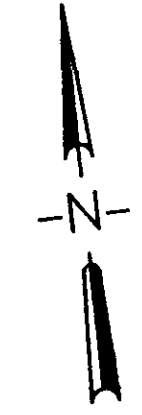
NO.	DATE	REVISIONS	DESIGNED	DATE	SCALE



PROJECT NO. STP-6945(1)/49-6945-00-001-10
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

ACAD PATH ROUTE C:\P\94150E\PROFILE
W.E.I. JOB NO. 94-150E

WORKING NUMBER 9
SHEET NUMBER 16



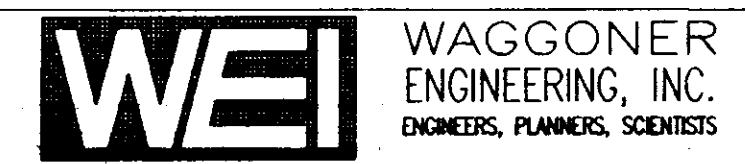
286.52 EXIST. CL GRADE
287.76 PROPOSED CL GRADE

TBM NO. 9
ELEV. 282.459
NORTH MOST BOLT BOTTOM
FLANGE ON F.H.

— EXISTING C.L. GRADE
- - - EXISTING LEFT GRADE
- - - EXISTING RIGHT GRADE
— PROPOSED C.L. GRADE

62+00	288.38	288.19	287.58	288.03	287.87	287.58	287.72	287.59	287.58	287.59	287.43	287.60	287.29	287.61	288.75	287.61	288.53	287.62	288.32	287.62	288.23	287.63	288.18	287.64	288.16	287.64	288.15	287.65	288.17	287.66	288.20	287.66	288.51	287.67	288.82	287.68	288.85	287.68	288.88	287.69	288.91	287.70	288.95	287.70	288.99	287.71	289.02	287.72	289.08	287.72	289.16	287.73	289.24	287.74	289.32	287.74	289.42	287.74
62+00	63+00	64+00	65+00	66+00	67+00	68+00																																																				

DESIGNED	DATE
DRAWN	SCALE
BY	1" = 20' HORIZ. 1" = 5' VERT.
NO.	DATE
REVISIONS	

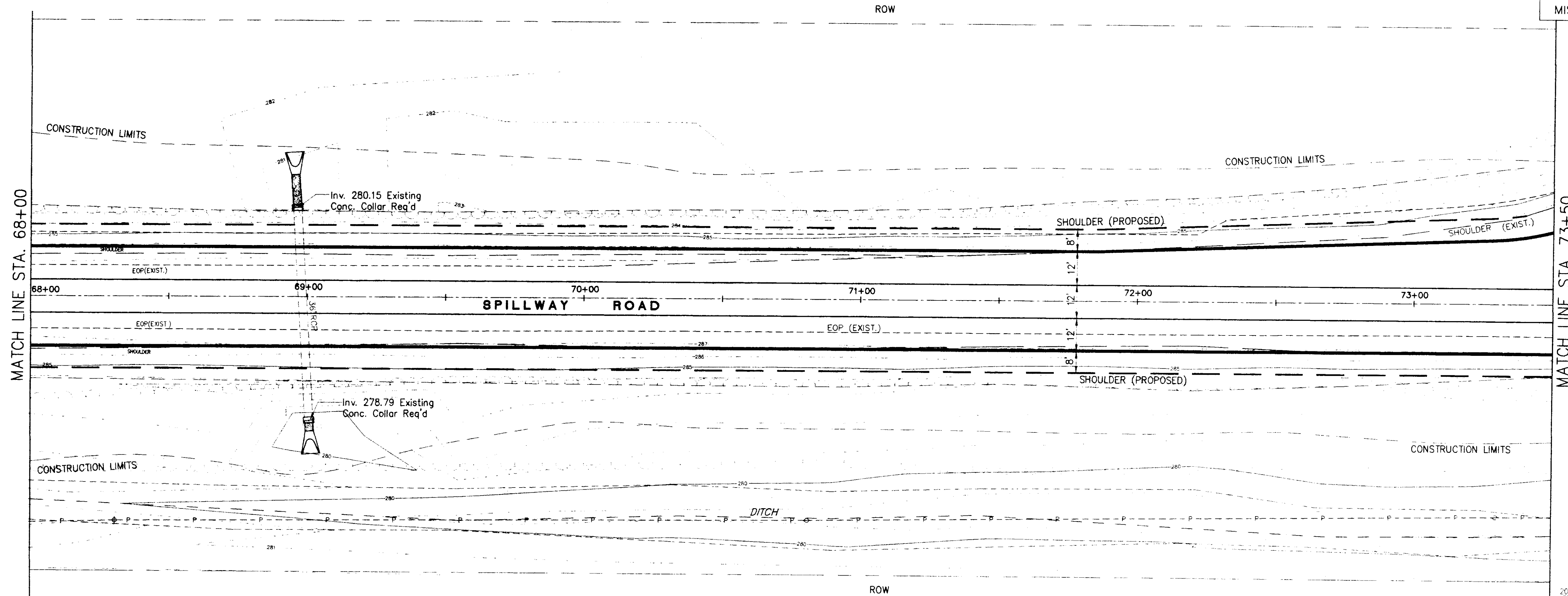


PROJECT NO. STP-6945(1)/49-6945-00-001-10
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

ACAD PATH ROUTE
C:\P\94150E\PROFILE
W.E.I. JOB NO.
94-150E

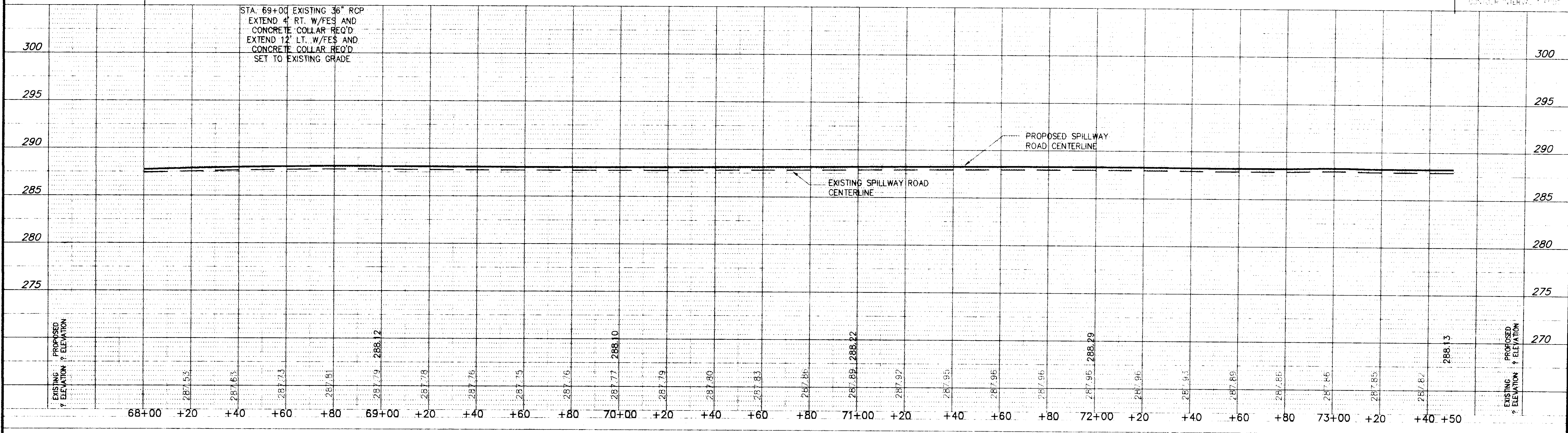
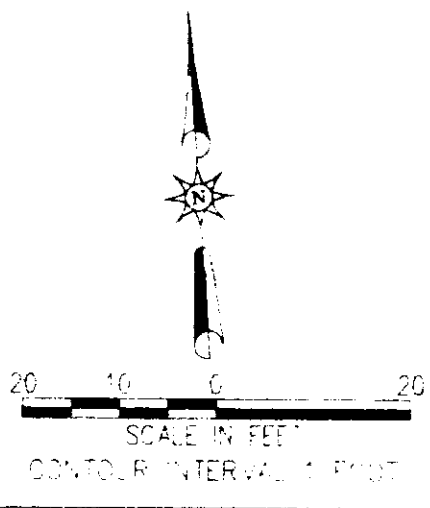
WORKING NUMBER
10

SHEET NUMBER
17



MATCH LINE STA. 68+00

MATCH LINE STA. 73+50



STA. 69+00 EXISTING 36" RCP
EXTEND 4' RT. W/FES AND
CONCRETE COLLAR REQ'D
EXTEND 12' LT. W/FES AND
CONCRETE COLLAR REQ'D
SET TO EXISTING GRADE

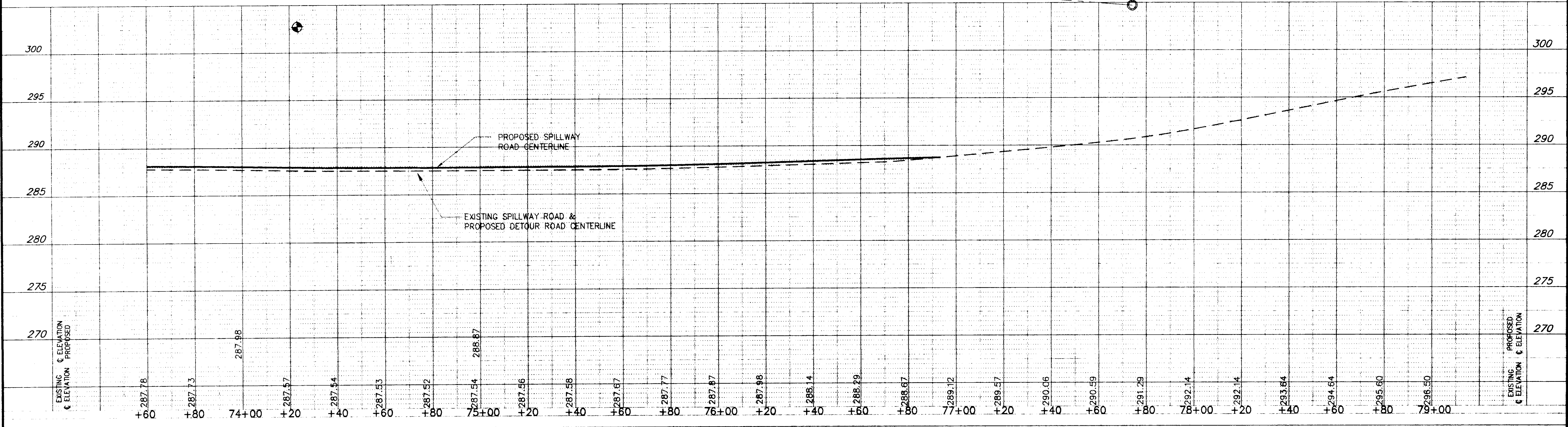
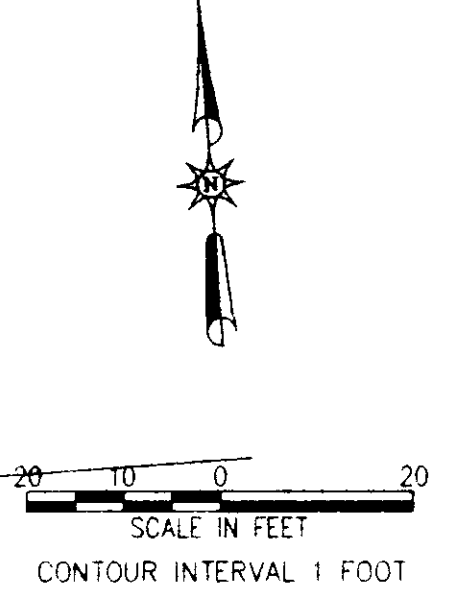
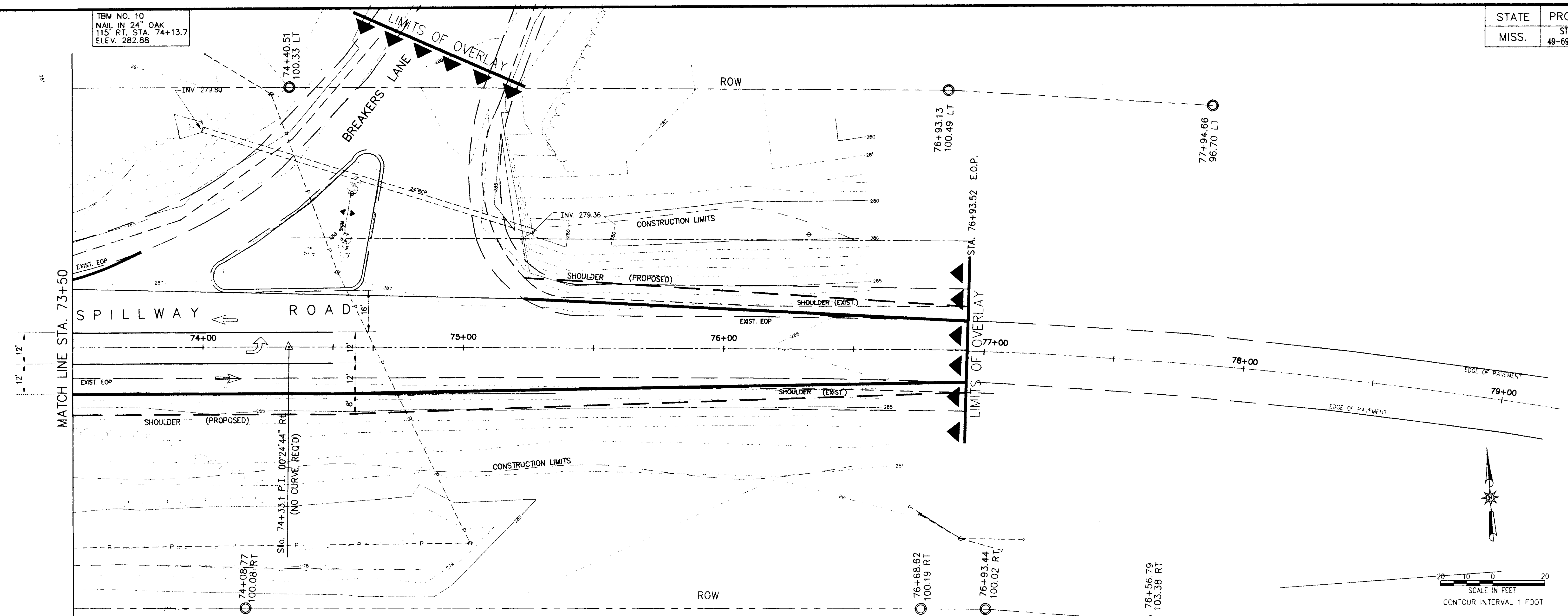
STATION	EXISTING ELEVATION	PROPOSED ELEVATION
68+00	287.53	288.12
68+20	287.63	288.12
68+40	287.73	288.12
68+60	287.81	288.12
68+80	287.79	288.12
69+00	287.78	288.12
69+20	287.76	288.12
69+40	287.75	288.12
69+60	287.76	288.12
69+80	287.77	288.10
70+00	287.79	288.12
70+20	287.80	288.12
70+40	287.83	288.12
70+60	287.86	288.12
70+80	287.88	288.12
71+00	287.97	288.12
71+20	287.95	288.12
71+40	287.95	288.12
71+60	287.96	288.12
71+80	287.96	288.12
72+00	287.96	288.12
72+20	287.95	288.12
72+40	287.95	288.12
72+60	287.95	288.12
72+80	287.95	288.12
73+00	287.87	288.12
73+20	288.13	288.12
73+40	288.13	288.12
73+50	288.13	288.12

NO.	DATE	DESIGNED	DATE	WEI WAGGONER ENGINEERING, INC. ENGINEERS, PLANNERS, SURVEYORS	NS NEEL-SCHAFFER, INC. ENGINEERS • PLANNERS Jackson, Mississippi	SPILLWAY ROAD IMPROVEMENTS RIDGELAND, MADISON CO, MS.	PLAN PROFILE SHEET STA. 68+00 - STA. 73+50	ACAD PATH ROUTE	
		DRAWN	SCALE					W.E.I. JOB NO.	SHEET NO.
		BY	1" = 20' HOR. 1" = 5' VERT.					13	OF

T:\PROJECTS\LIBERTY\2763-GP-APP-5411_Tup May 20 12 57:42 1997.RKS

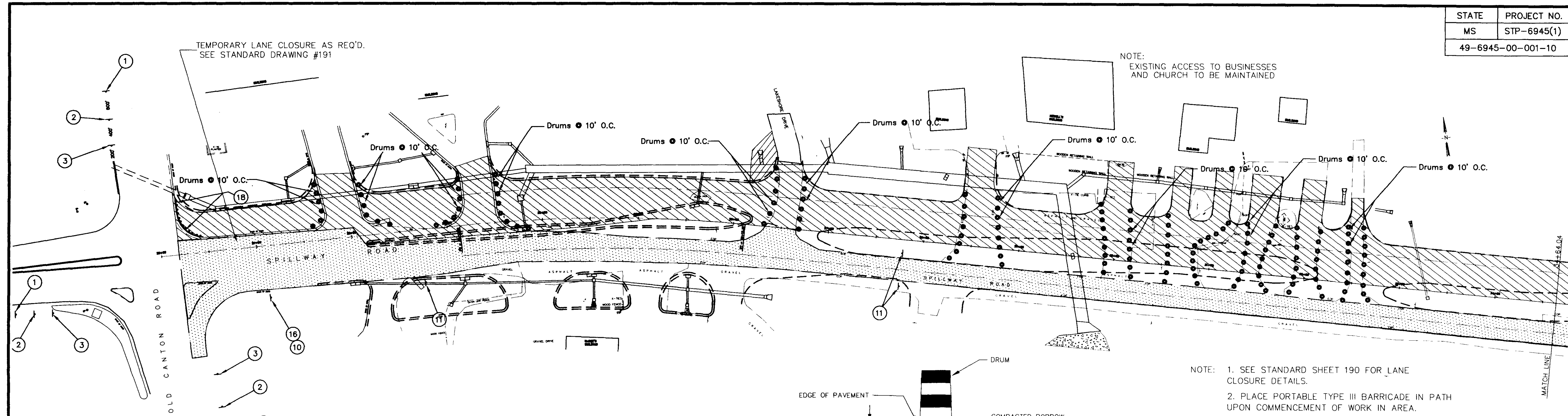
CAD REF. PR. SATT. PLOT 1-20

TBM NO. 10
NAIL IN 24" OAK
115' RT. STA. 74+13.7
ELEV. 282.88



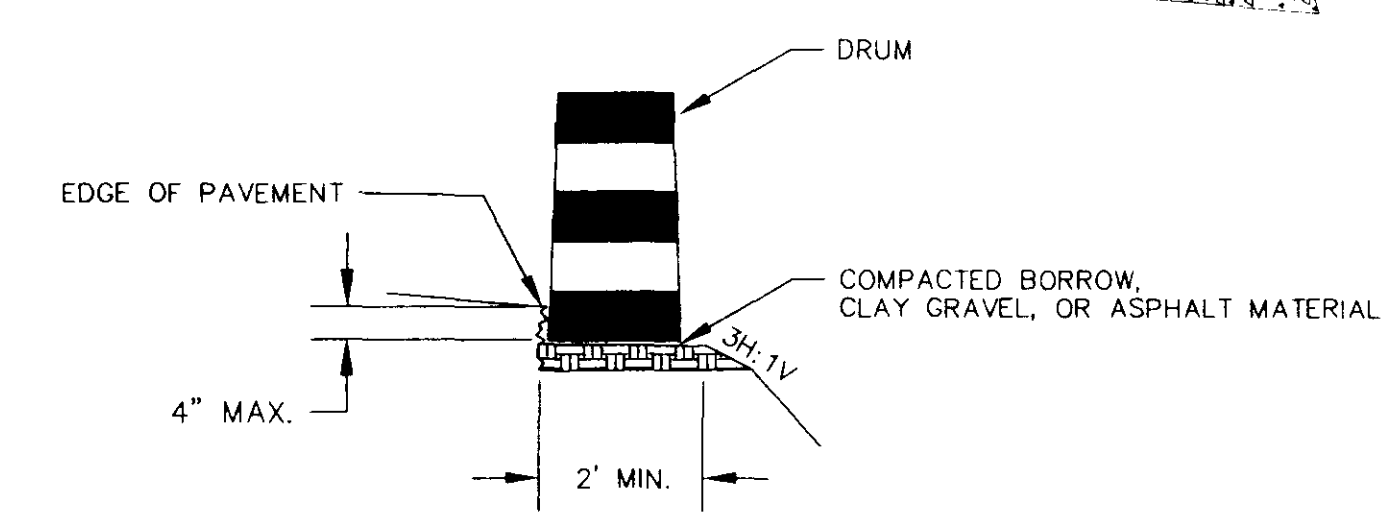
NO. DATE	DESIGNED		DATE	WAGGONER ENGINEERING, INC. ENGINEERS, PLANNERS, SCIENTISTS	NCS-SCHAFFER, INC. ENGINEERS-PLANNERS Jackson, Mississippi	SPILLWAY ROAD IMPROVEMENTS RIDGELAND, MADISON CO, MS.	PLAN PROFILE SHEET STA. 73+50 - E.O.P.	ACAD PATH ROUTE	
	BY	SCALE	1" = 20' HORT. 1" = 5' VERT.					W.E.I. JOB NO.	SHEET NO.
									19

F:\TRAFFIC\ROBERT\263-02\SP-SHT2.dwg Plot 13, 16, 20, 1987, 8:11:47 B



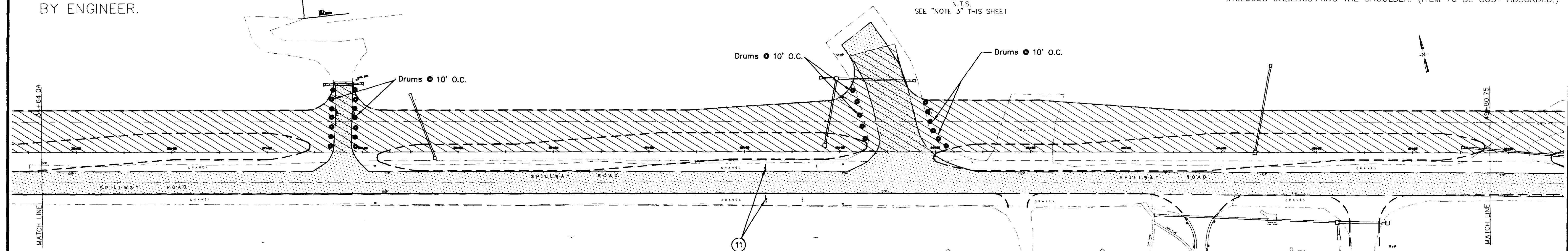
NOTE: SIGNAL CONTROLLER SHALL RUN FIXED-TIME OPERATION DURING CONSTRUCTION PHASE. TIMING TO BE DETERMINED BY ENGINEER.

NOTE: PHASE 1 WORK TO INCLUDE BUILDING SHOULDERS.



TRAFFIC DRUM PLACEMENT @ WIDENING OR LOW SHOULDER
N.T.S. SEE "NOTE 3" THIS SHEET

NOTE: 1. SEE STANDARD SHEET 190 FOR LANE CLOSURE DETAILS.
2. PLACE PORTABLE TYPE III BARRICADE IN PATH UPON COMMENCEMENT OF WORK IN AREA.
3. IN AREAS OF WIDENING OR LOW SHOULDERS, THE CONTRACTOR SHALL PLACE PLASTIC DRUMS ADJACENT TO THE ROADWAY WHERE THE DROP-OFF EXCEEDS TWO INCHES AND WHEN WORK IS SUSPENDED OR FOR NIGHT OPERATION. DRUMS ARE ALSO REQUIRED WHERE THE WORK ZONE INCLUDES UNDERCUTTING THE SHOULDER. (ITEM TO BE COST ABSORBED.)

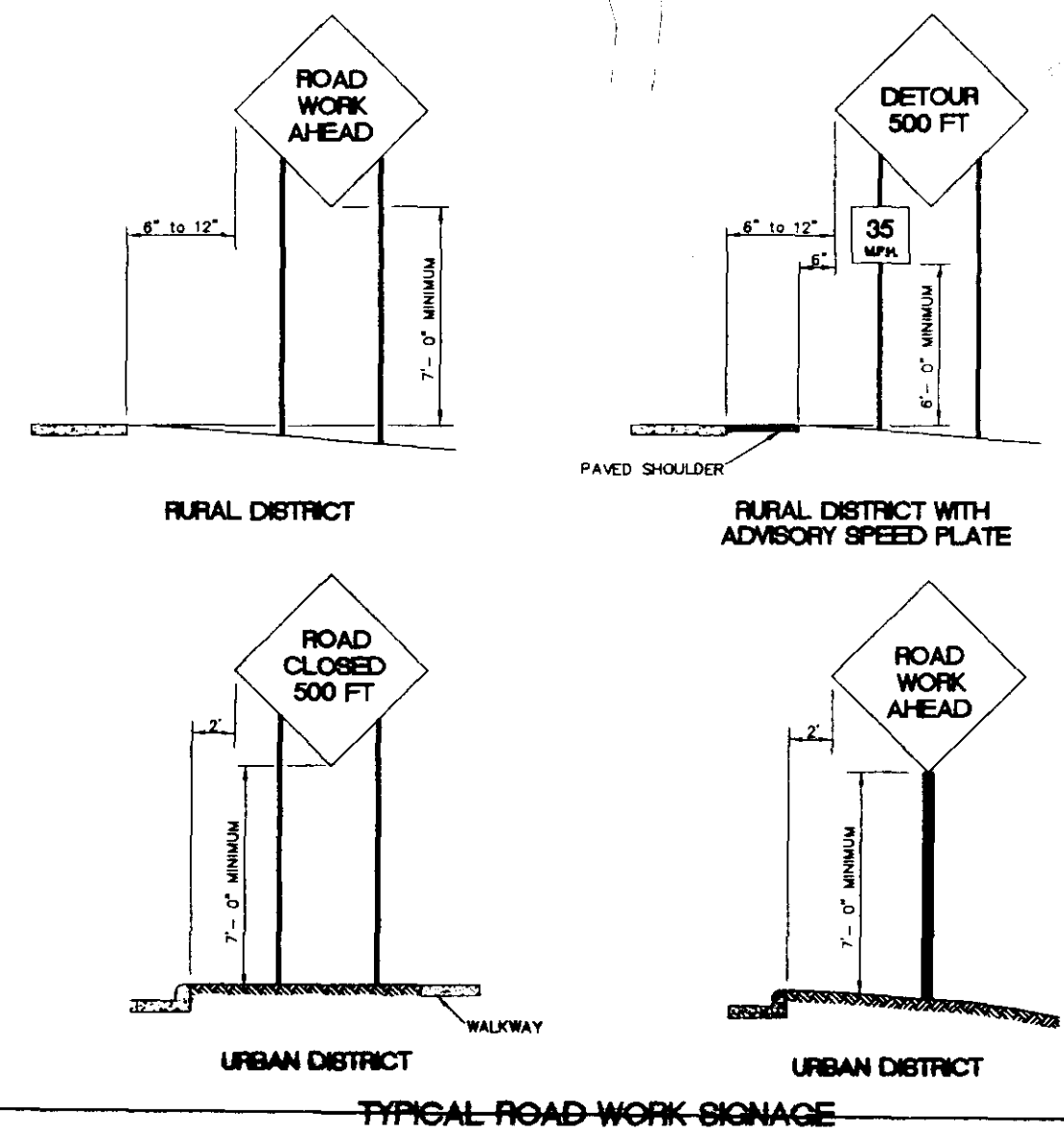


SIGN NUMBER	MUTCD NUMBER	DESCRIPTION
1	W20-1	ROAD WORK 1000 FEET
2	W20-1	ROAD WORK 500 FEET
3	W20-1	ROAD WORK 200 FEET
4	W20-1	ROAD WORK 1500 FEET
5	W3-2A	YIELD AHEAD
6	R1-2	YIELD
7	W20-7a W/SUPL.PLT.	FLAGMAN AHEAD 500 FEET
8	W1-3R	REVERSE TURN RIGHT
9	W1-3L	REVERSE TURN LEFT
10	R2-1	30 M.P.H.

SIGN NUMBER	MUTCD NUMBER	DESCRIPTION
11	W6-3	TWO WAY TRAFFIC
15	W13-1	20 M.P.H.
16	G20-1	ROAD WORK NEXT 1.2 MILE
17	G20-2A	END ROAD WORK
18	---	TYPE III BARRICADE W/ TYPE "A"
19	---	PROJECT SIGN
20	W1-4oL	REVERSE CURVE SIGN (LEFT)
21	M4-10L	DETOUR LEFT
22	W20-2	DETOUR 1000 FEET
23	W20-2	DETOUR 500 FEET

LEGEND

PHASE 1
TRAFFIC FLOW
TEMPORARY CONSTRUCTION
TEMPORARY PAVEMENT
WIDENING
TRAFFIC DRUMS
TYPE III BARRICADES



NOTE: REMOVE AND SALVAGE EXISTING REGULATORY SPEED LIMIT SIGNS WITHIN WORK AREA, CITY TO PICK UP.

PHASE 1

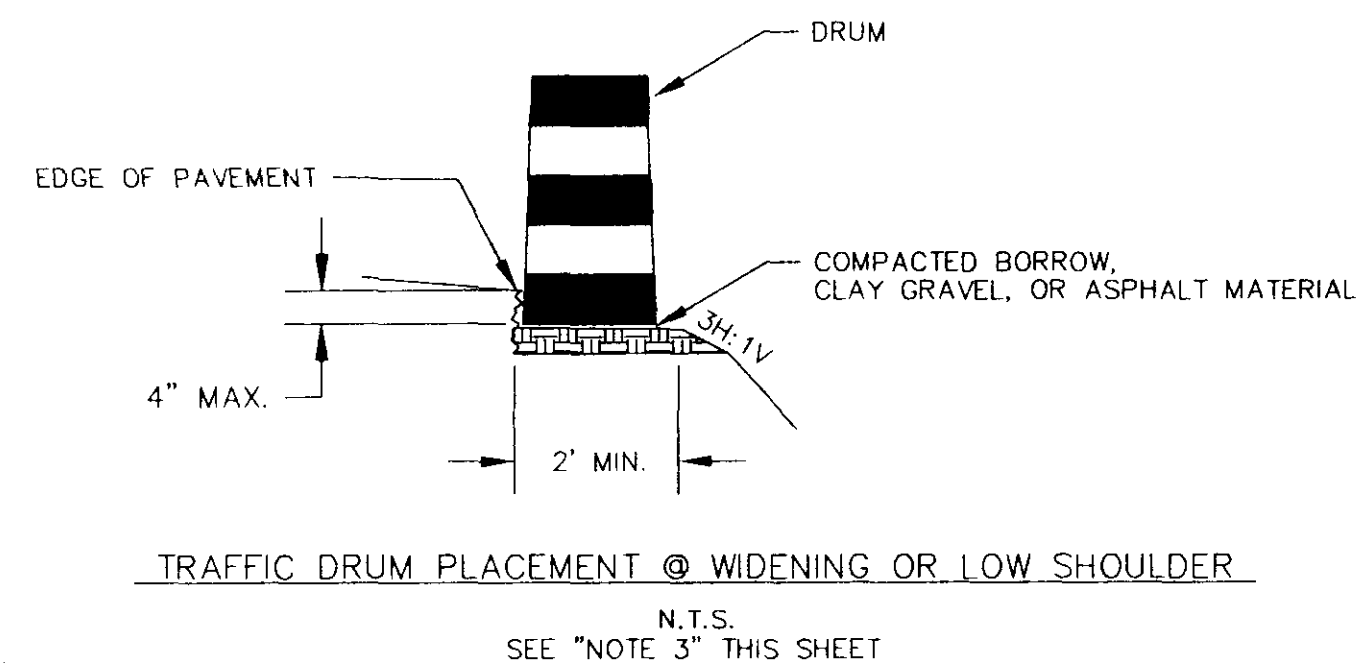
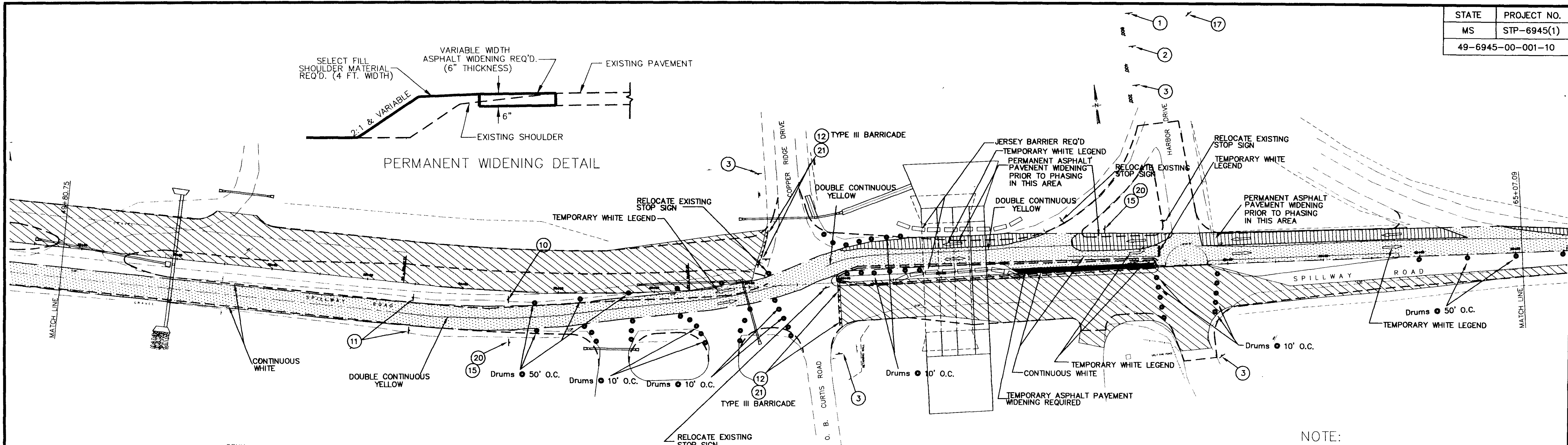
SPILLWAY ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)

TRAFFIC CONTROL PLAN

CITY OF RIDGELAND, MISSISSIPPI

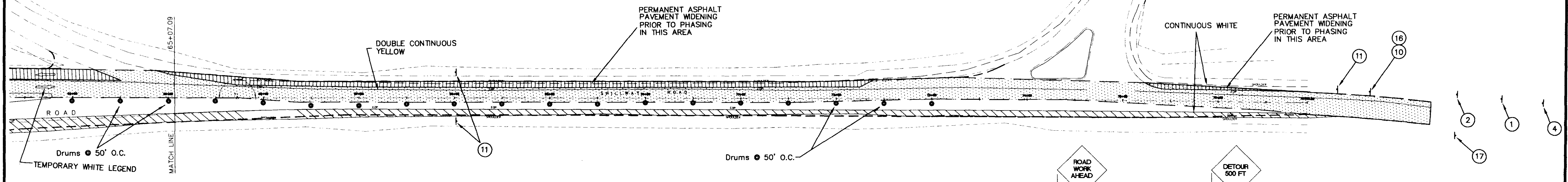
WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: E.L.A.	DATE: 7-8-97	SHEET NUMBER
REVIEWED BY: M.F.	SCALE: NONE	20



- NOTE:
- SEE STANDARD SHEET 190 FOR LANE CLOSURE DETAILS.
 - PLACE PORTABLE TYPE III BARRICADE IN PATH UPON COMMENCEMENT OF WORK IN AREA.
 - IN AREAS OF WIDENING OR LOW SHOULDERS, THE CONTRACTOR SHALL PLACE PLASTIC DRUMS ADJACENT TO THE ROADWAY WHERE THE DROP-OFF EXCEEDS TWO INCHES AND WHEN WORK IS SUSPENDED OR FOR NIGHT OPERATION. DRUMS ARE ALSO REQUIRED WHERE THE WORK ZONE INCLUDES UNDERCUTTING THE SHOULDER. (ITEM TO BE COST ABSORBED.)

NOTE:
PHASE 1 WORK TO INCLUDE BUILDING SHOULDERS.



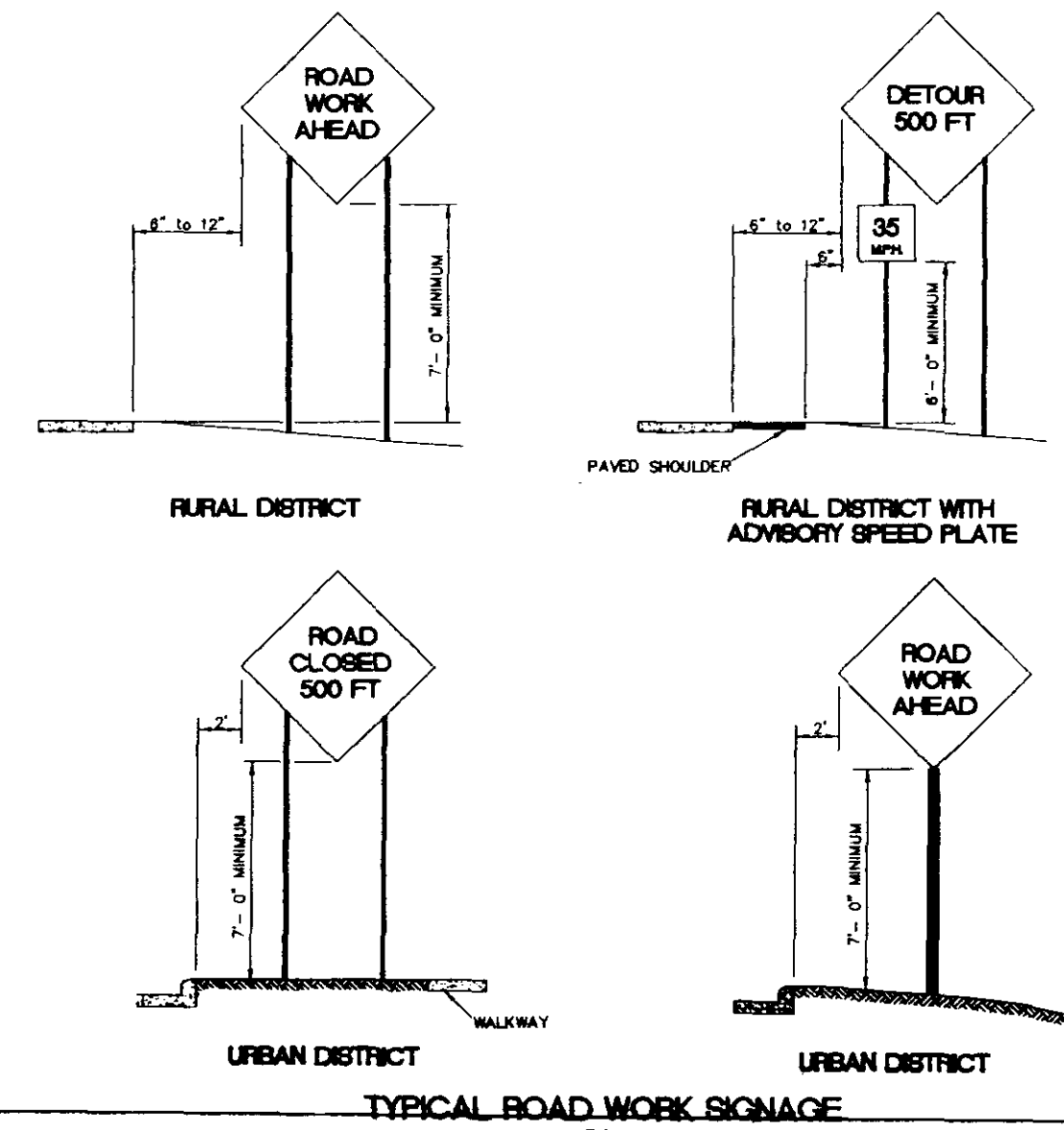
NOTE:
REMOVE AND SALVAGE EXISTING REGULATORY SPEED LIMIT SIGNS WITHIN WORK AREA, CITY TO PICK UP.

SIGN NUMBER	MUTCD NUMBER	DESCRIPTION
1	W20-1	ROAD WORK 1000 FEET
2	W20-1	ROAD WORK 500 FEET
3	W20-1	ROAD WORK 200 FEET
4	W20-1	ROAD WORK 1500 FEET
7	W20-7a W/SUPL.PLT.	FLAGMAN AHEAD 500 FEET
8	W1-3R	REVERSE TURN RIGHT
9	W1-3L	REVERSE TURN LEFT
10	R2-1	30 M.P.H.
11	W6-3	TWO WAY TRAFFIC

SIGN NUMBER	MUTCD NUMBER	DESCRIPTION
12	R11-2	ROAD CLOSED
15	W13-1	20 M.P.H.
16	G20-1	ROAD WORK NEXT 1.2 MILE
17	G20-2A	END ROAD WORK
18		TYPE III BARRICADE W/ TYPE "A"
19		PROJECT SIGN
20	W1-4aL	REVERSE CURVE SIGN (LEFT)
21	M4-10L	DETOUR LEFT
22	W20-2	DETOUR 1000 FEET
23	W20-2	DETOUR 500 FEET
24	R1-1	STOP SIGN

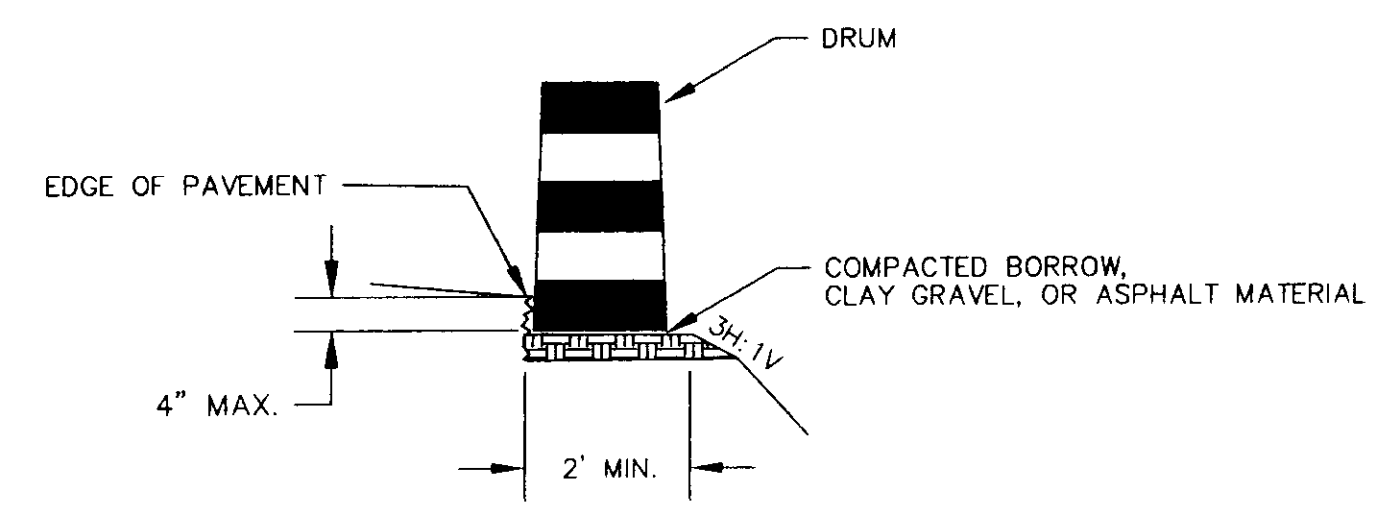
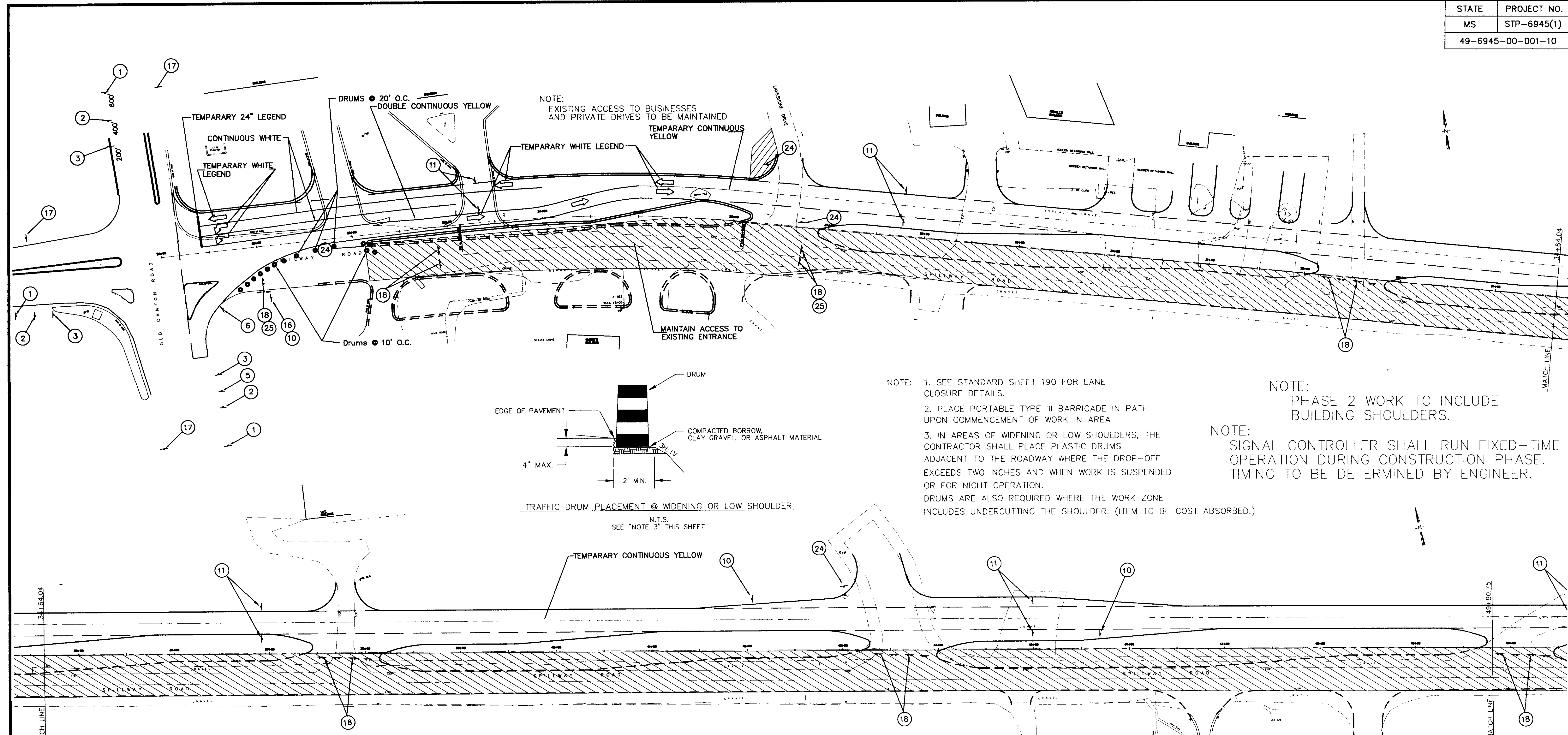
LEGEND

- PHASE 1 TRAFFIC FLOW
- PERMANENT PAVEMENT WIDENING
- TRAFFIC DRUMS
- TYPE III BARRICADES



PHASE 1
 SPILLWAY ROAD IMPROVEMENTS
 F.A.U.P. PROJECT NO. STP-6945(1)
 TRAFFIC CONTROL PLAN
 CITY OF RIDGELAND, MISSISSIPPI
 WAGGONER ENGINEERING, INC.
 Consulting Engineers - Jackson, Mississippi
 DRAWN BY: E.L.R. DATE: 7-16-97 SHEET NUMBER: 21
 REVIEWED BY: M.J. SCALE: NONE

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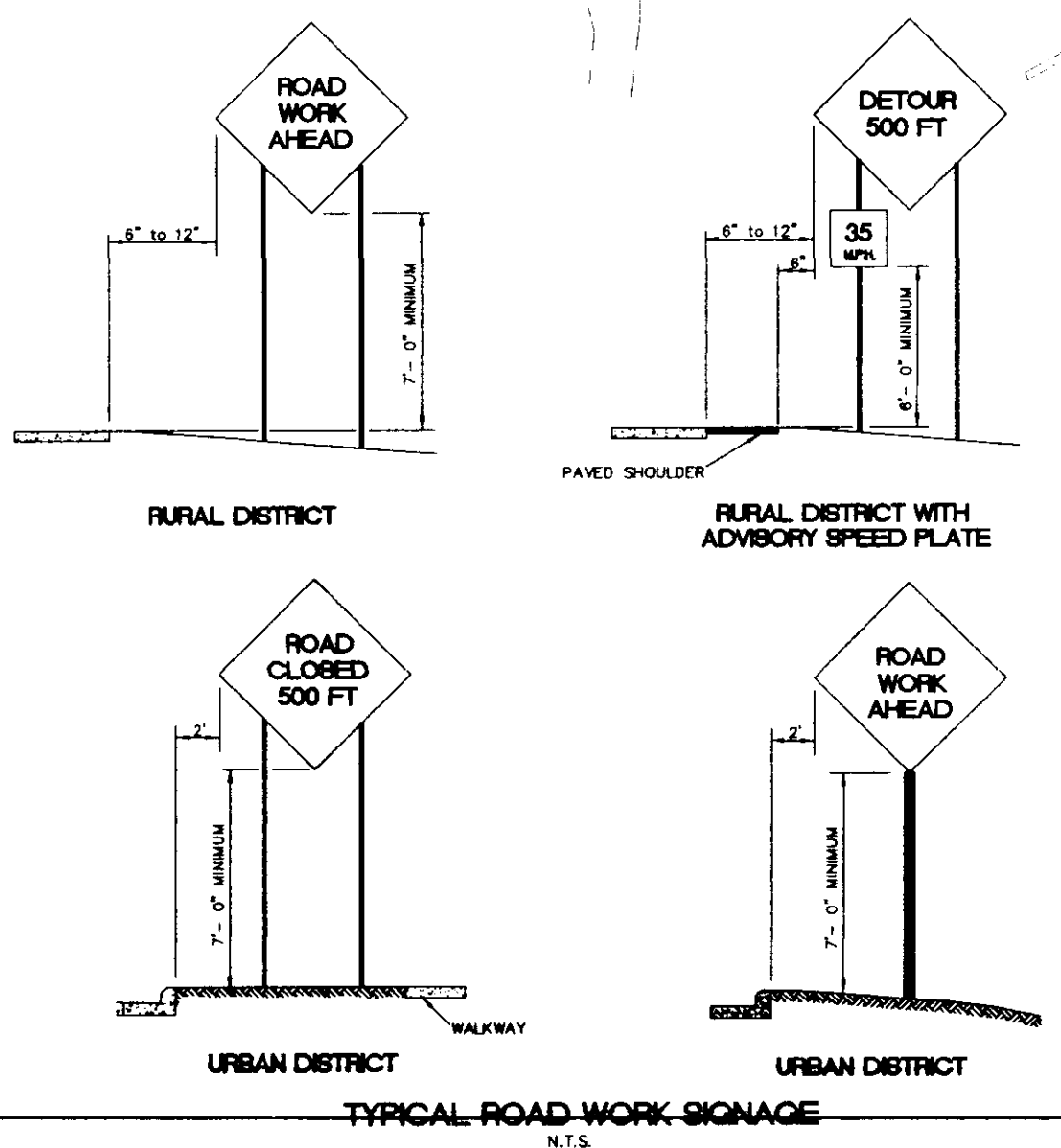
NOTE: 1. SEE STANDARD SHEET 190 FOR LANE CLOSURE DETAILS.
 2. PLACE PORTABLE TYPE III BARRICADE IN PATH UPON COMMENCEMENT OF WORK IN AREA.
 3. IN AREAS OF WIDENING OR LOW SHOULDERS, THE CONTRACTOR SHALL PLACE PLASTIC DRUMS ADJACENT TO THE ROADWAY WHERE THE DROP-OFF EXCEEDS TWO INCHES AND WHEN WORK IS SUSPENDED OR FOR NIGHT OPERATION.
 DRUMS ARE ALSO REQUIRED WHERE THE WORK ZONE INCLUDES UNDERCUTTING THE SHOULDER. (ITEM TO BE COST ABSORBED.)

NOTE: PHASE 2 WORK TO INCLUDE BUILDING SHOULDERS.
 NOTE: SIGNAL CONTROLLER SHALL RUN FIXED-TIME OPERATION DURING CONSTRUCTION PHASE. TIMING TO BE DETERMINED BY ENGINEER.

SIGN NUMBER	MUTCD NUMBER	DESCRIPTION
1	W20-1	ROAD WORK 1000 FEET
2	W20-1	ROAD WORK 500 FEET
3	W20-1	ROAD WORK 200 FEET
4	W20-1	ROAD WORK 1500 FEET
5	W3-2A	YIELD AHEAD
6	R1-2	YIELD
7	W20-7a W/SUPL.PLT.	FLAGMAN AHEAD 500 FEET
8	W1-3R	REVERSE TURN RIGHT
9	W1-3L	REVERSE TURN LEFT
10	R2-1	30 M.P.H.
11	W5-3	TWO WAY TRAFFIC

SIGN NUMBER	MUTCD NUMBER	DESCRIPTION
15	W13-1	20 M.P.H.
16	G20-1	ROAD WORK NEXT 1.2 MILE
17	G20-2A	END ROAD WORK
18	---	TYPE III BARRICADE W/ TYPE "A"
19	---	PROJECT SIGN
20	W1-4GL	REVERSE CURVE SIGN (LEFT)
21	M4-10L	DETOUR LEFT
22	W20-2	DETOUR 1000 FEET
23	W20-2	DETOUR 500 FEET
24	R1-1	STOP SIGN
25	W1-6L	CONSTRUCTION ARROW

LEGEND
 PHASE 2
 TRAFFIC FLOW
 TEMPORARY CONSTRUCTION
 TRAFFIC DRUMS
 TYPE III BARRICADES



NOTE: REMOVE AND SALVAGE EXISTING REGULATORY SPEED LIMIT SIGNS WITHIN WORK AREA, CITY TO PICK UP.

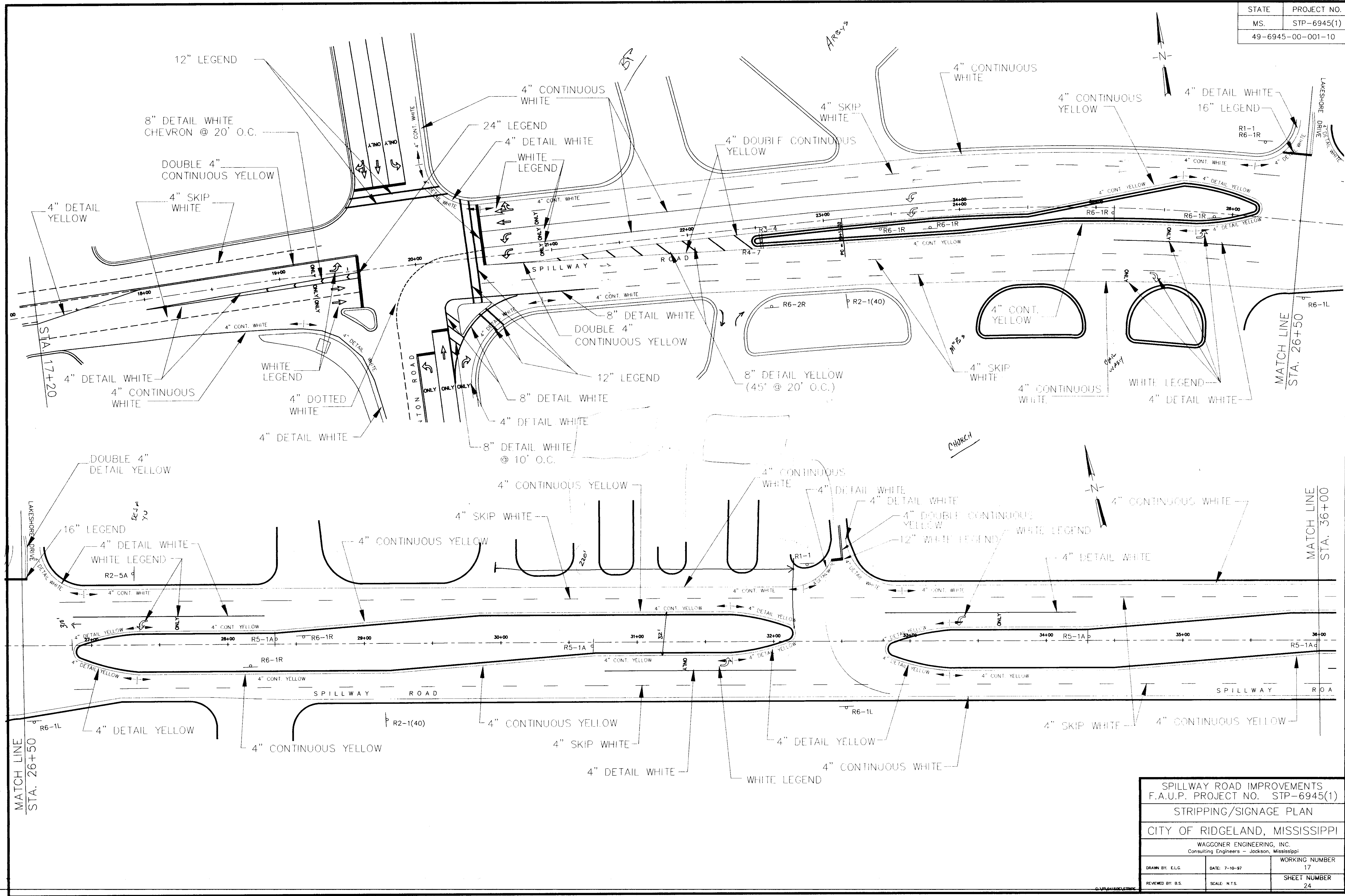
PHASE 2

SPILLWAY ROAD IMPROVEMENTS
 F.A.U.P. PROJECT NO. STP-6945(1)
 TRAFFIC CONTROL PLAN
 CITY OF RIDGELAND, MISSISSIPPI

WAGGONER ENGINEERING, INC.
 Consulting Engineers - Jackson, Mississippi

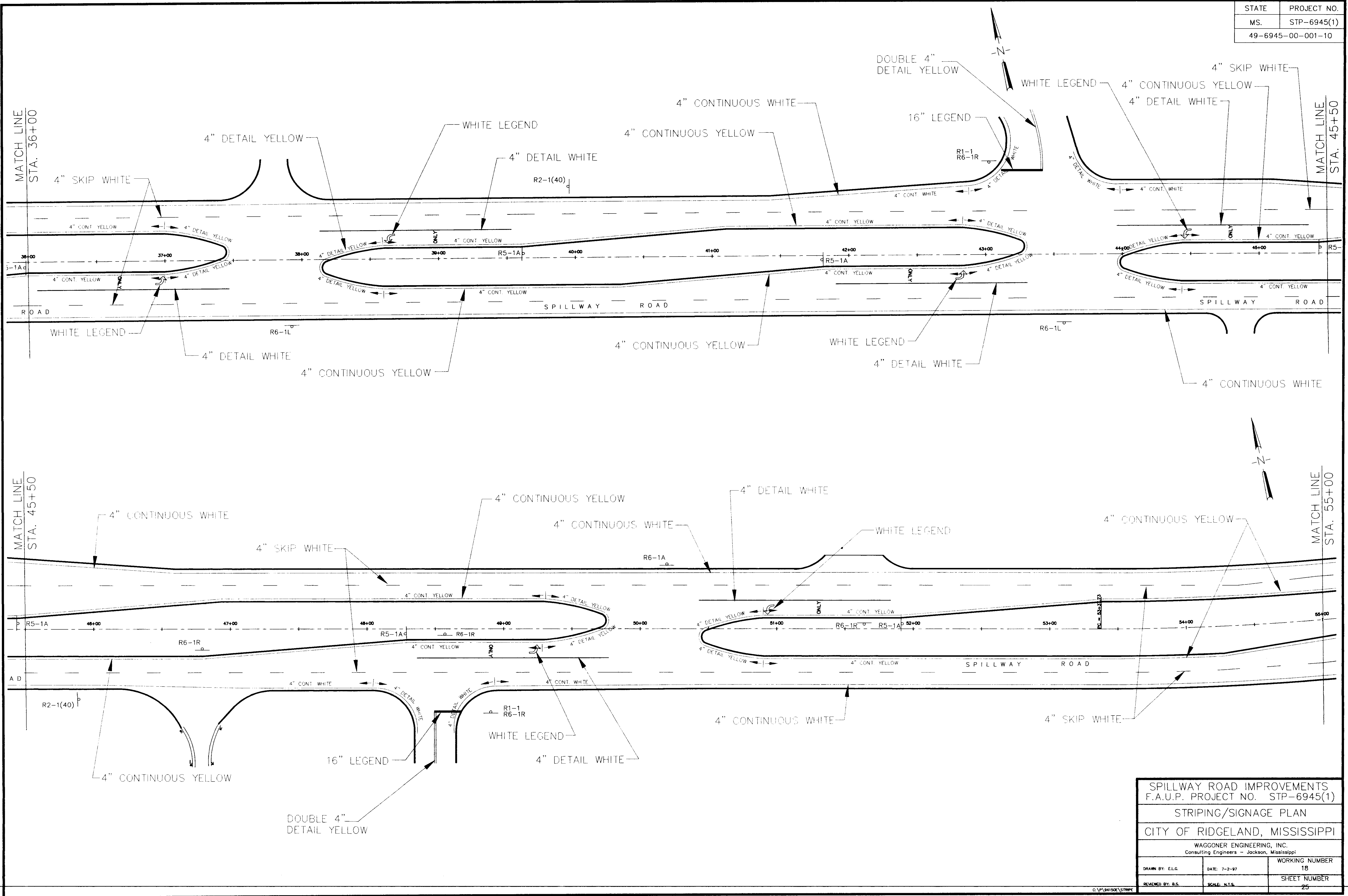
DRAWN BY: E.L.G.	DATE: 7-8-97	SHEET NUMBER
REVIEWED BY: M.F.	SCALE: NONE	22

STATE	PROJECT NO.
MS.	STP-6945(1)
49-6945-00-001-10	



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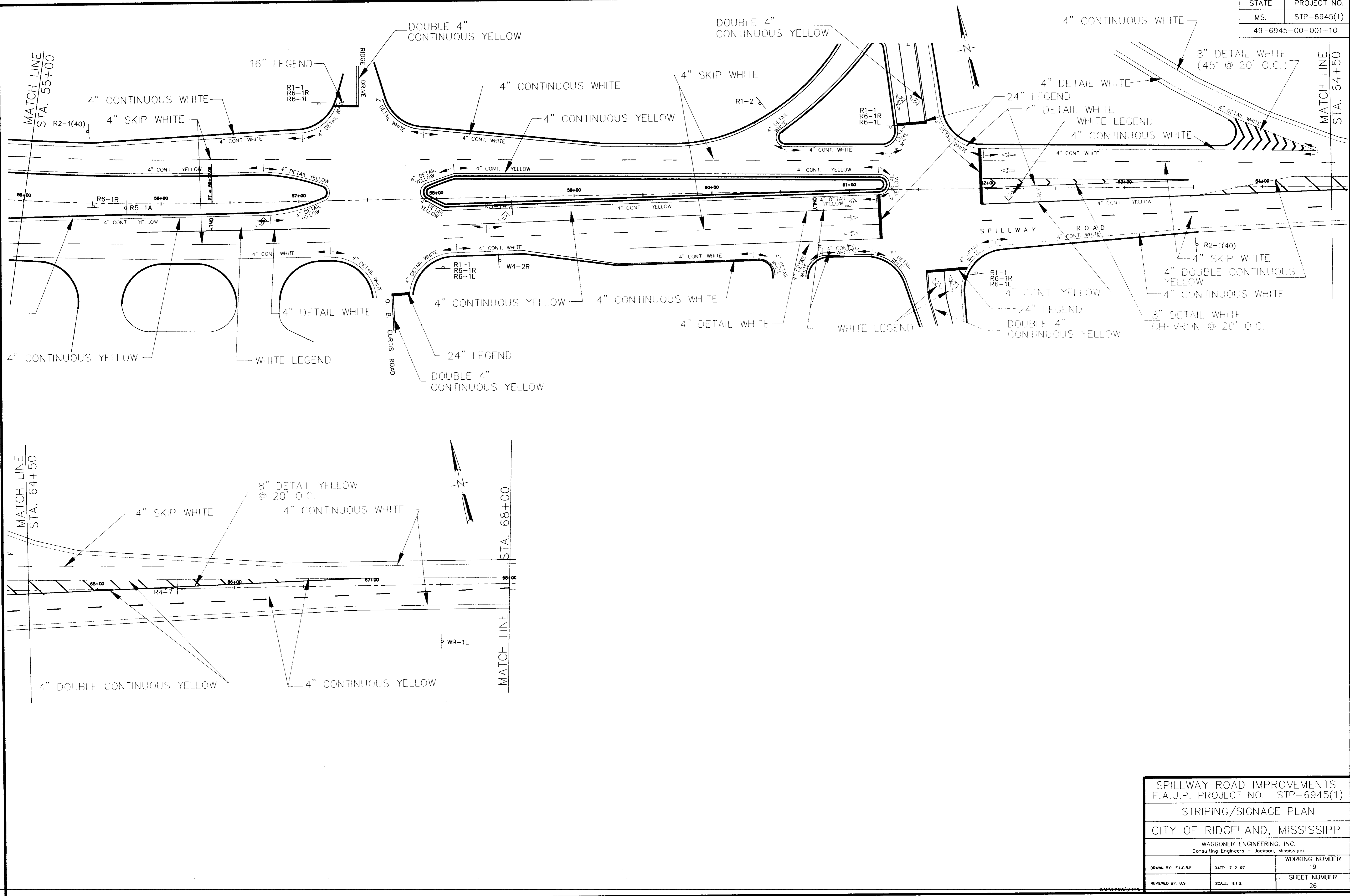
SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
STRIPPING/SIGNAGE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: E.L.G.	DATE: 7-10-97	WORKING NUMBER 17
REVIEWED BY: B.S.	SCALE: N.T.S.	SHEET NUMBER 24



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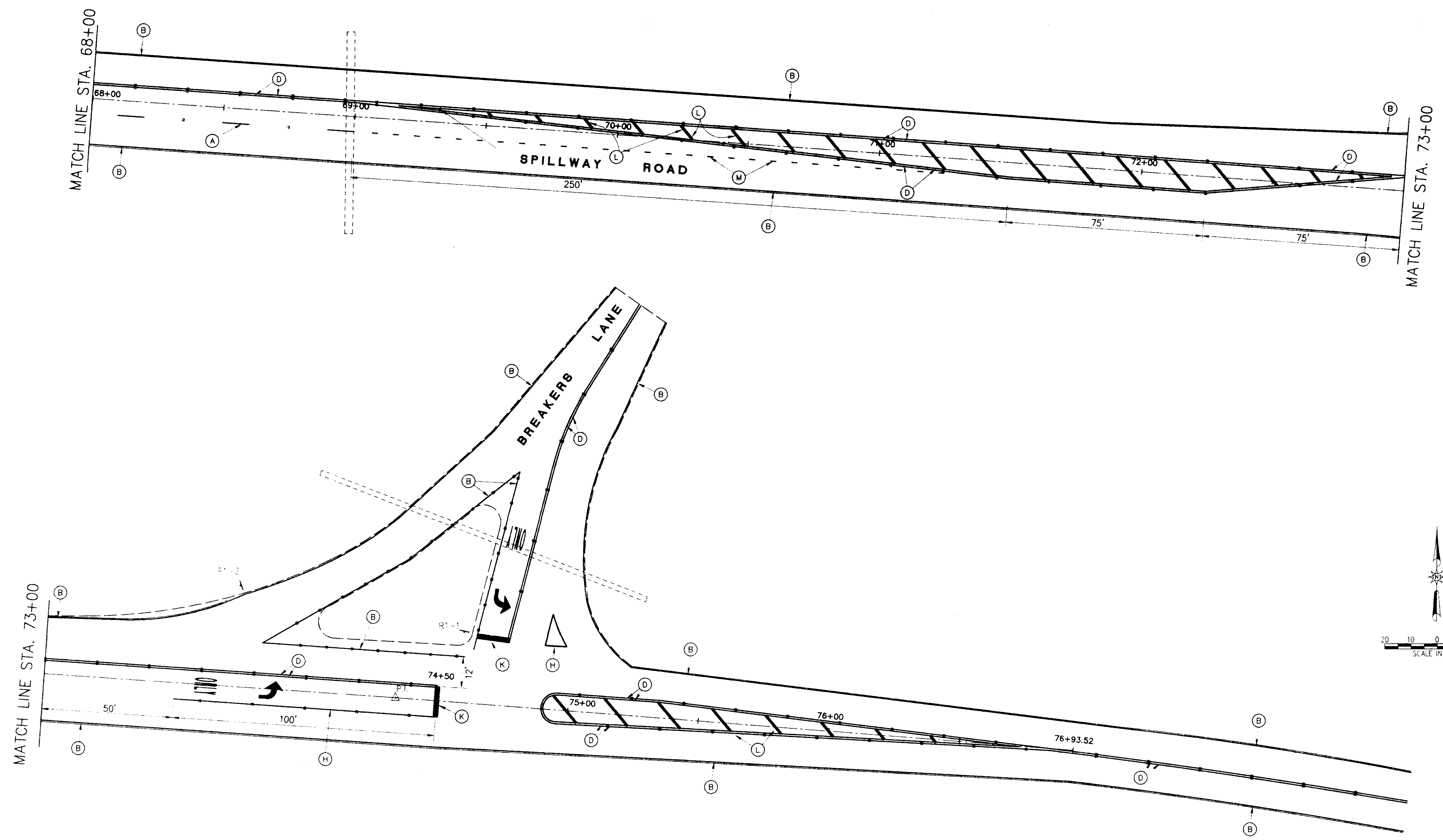
SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
STRIPING/SIGNAGE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: E.L.G.	DATE: 7-2-97	WORKING NUMBER 18
REVIEWED BY: B.S.	SCALE: N.T.S.	SHEET NUMBER 25

STATE	PROJECT NO.
MS.	STP-6945(1)
49-6945-00-001-10	



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SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
STRIPING/SIGNAGE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: E.L.G.B.F.	DATE: 7-2-97	WORKING NUMBER 19
REVIEWED BY: B.S.	SCALE: N.T.S.	SHEET NUMBER 26



PAVEMENT MARKING LEGEND

- | | | |
|---------------------------------------------|--------------------------------------|-------------------------------------------|
| (A) 4" SKIP WHITE | (G) 8" WHITE - CROSSWALK | ONLY ONLY LEGEND |
| (B) 4" CONTINUOUS WHITE EDGELINE | (H) 8" WHITE - DETAIL STRIPE | ↷ RIGHT ARROW |
| (C) 4" SKIP YELLOW | (I) 12" WHITE - DETAIL STRIPE | ↶ LEFT ARROW |
| (D) 4" CONTINUOUS YELLOW | (J) 24" WHITE - DETAIL STRIPE | ↕ STRAIGHT ARROW |
| (E) 4" WHITE - DOTTED LANE EXTENSION STRIPE | (K) 24" WHITE - STOPLINE | ▣ RED CLEAR REFLECTIVE RAISED MARKER |
| (F) 4" WHITE - PARKING STRIPE | (L) 8" YELLOW - DETAIL STRIPE | ▣ TWO-WAY YELLOW REFLECTIVE RAISED MARKER |
| | (M) 4" SKIP WHITE (2' STRIP, 6' GAP) | ↷↶ COMBINATION ARROW |



WAGGONER
ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

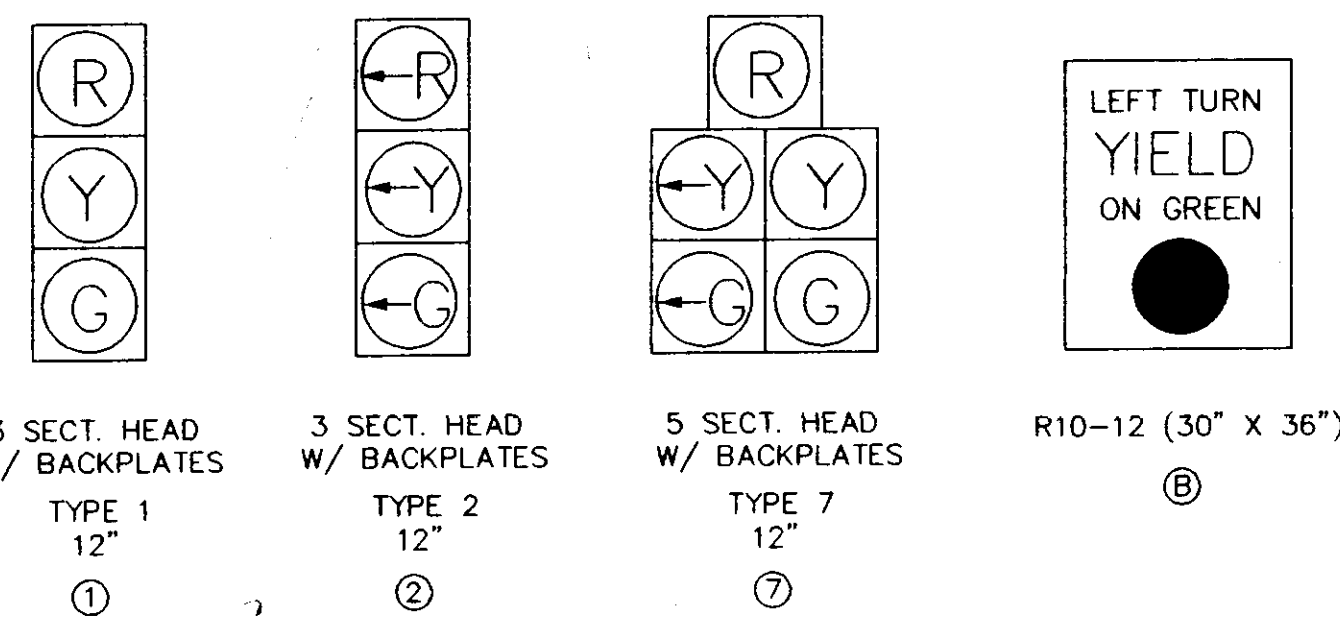
NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Jackson, Mississippi

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISION		PAVEMENT MARKING DETAILS STA. 68+00 TO E.O.P.	
DATE		PROJECT NO.	STP-6945(1)/ 49-6945-00-001-10
DESIGNED		MADISON COUNTY - RIDGELAND	
CHECKED		WORKING NUMBER	20
DATE		SHEET NUMBER	27

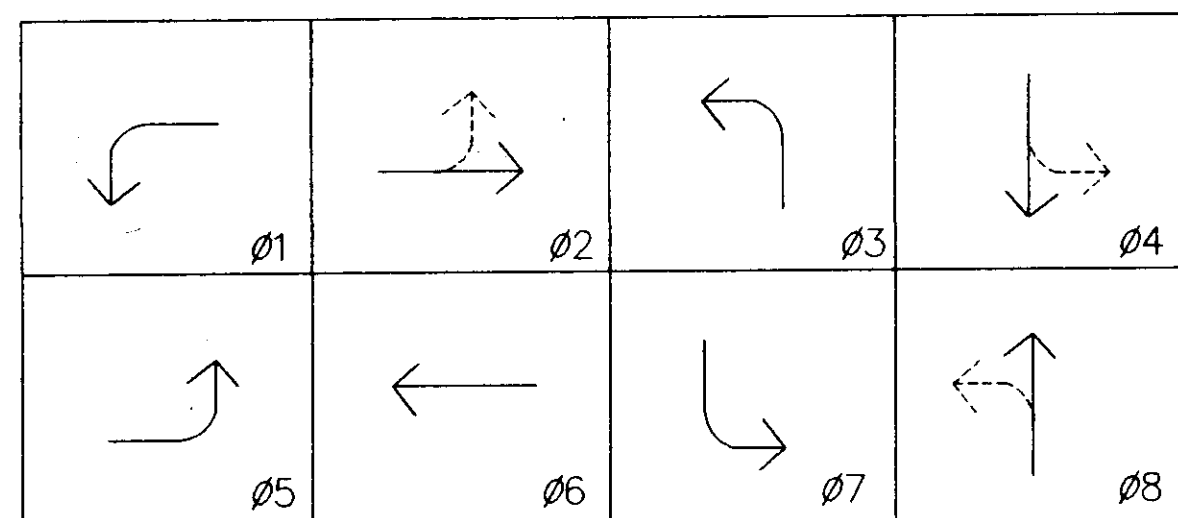
CAD REF: 2763-PMZ, PLOT: 01.20

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SIGNAL HEADS & SIGNS



SIGNAL PHASING



EMERGENCY PRE-EMPT
CHANNEL 1 - Ø2, Ø5
CHANNEL 2 - Ø1, Ø6
CHANNEL 3 - Ø3, Ø8

FLASHING OPERATION
YELLOW - Ø1, Ø2, Ø5, Ø6
RED - Ø3, Ø4, Ø7, Ø8

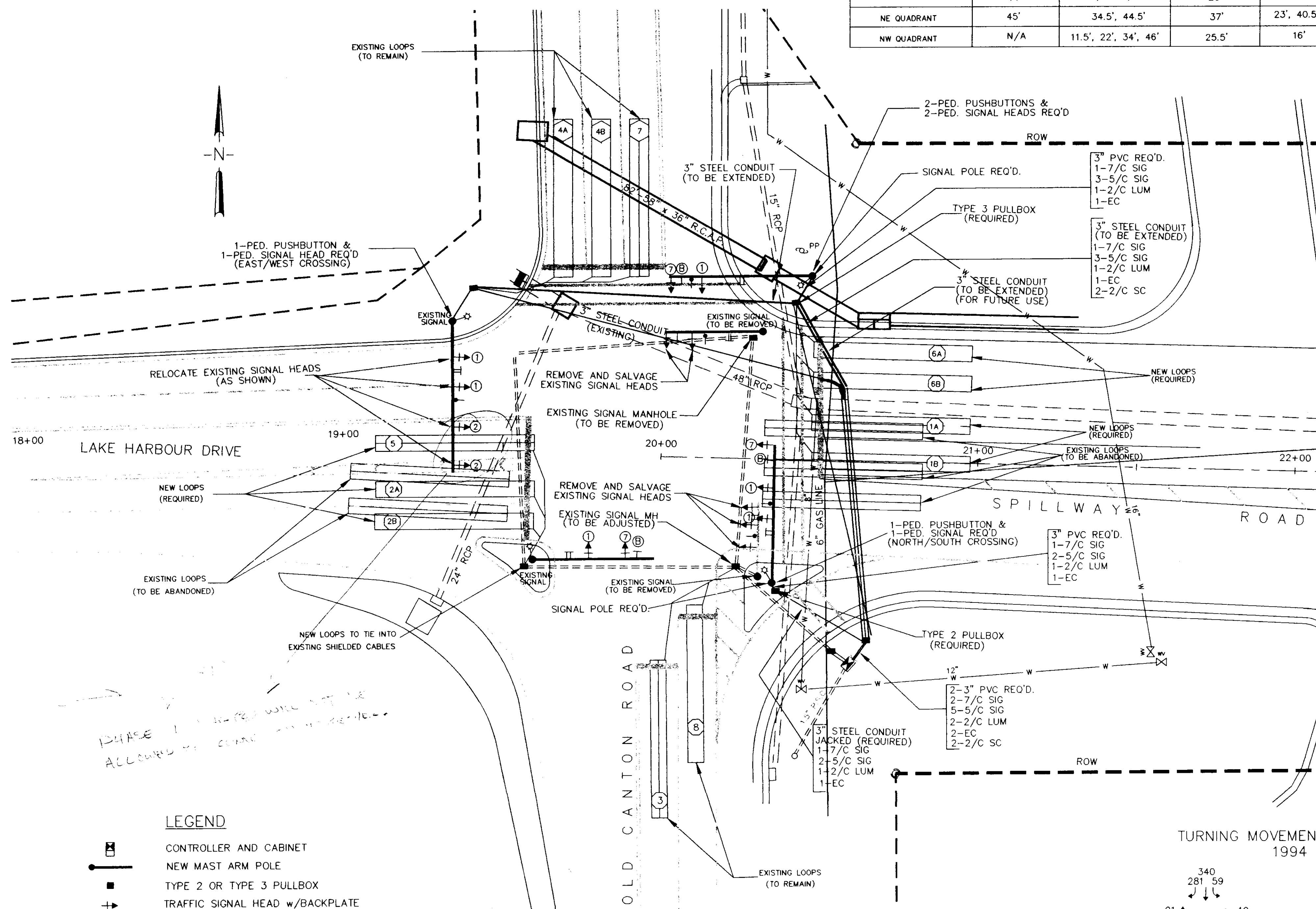
**TRAFFIC SIGNAL INSTALLATION
GENERAL NOTES**

- THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY ALL THE UTILITY COMPANIES PRIOR TO ANY EXCAVATION ON THE PROJECT, IN ORDER TO ESTABLISH EXACT LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INDEPENDENT INVESTIGATIONS, AS NECESSARY, TO VERIFY ALL UTILITY LOCATIONS AT NO COST TO THE OWNER.
- ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL DEVICES ARE TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (1988) EDITION AND ALL SUBSEQUENT REVISIONS.
- ALL RAISED OBJECTS ARE TO BE PLACED A MINIMUM OF 2' BEHIND THE FACE OF CURB. NEW TRAFFIC SIGNAL POLES ARE TO BE PLACED A MINIMUM OF 5' BEHIND THE FACE OF CURB OR EDGE OF PAVEMENT, EXCEPT WHERE CONFLICTS WITH UTILITIES AND / OR RIGHTS-OF-WAY EXISTS.
- ALL POLES, PULLBOXES, CONTROLLERS AND PAVEMENT MARKINGS SHALL BE FIELD LOCATED BY THE ENGINEER AND THE CONTRACTOR AT THE NEAREST PRACTICAL LOCATION INDICATED ON THE PLAN SHEETS.
- THE SIGNAL CONTROLLER TIMINGS SHALL BE PROVIDED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC SIGNALS AND / OR SIGNS. ANY MODIFICATIONS REQUIRED TO THESE DEVICES SHALL BE PERFORMED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC SIGNALS AND/OR SIGNS. COST TO BE INCLUDED IN OTHER ITEMS BID. CONTRACTOR IS RESPONSIBLE FOR MAINT. OF ALL TRAFFIC IN THE PROJECT, ONCE WORK HAS BEGUN.
- RELOCATE SIGNS AND EMERGENCY VEHICLE DETECTORS FROM THE EXISTING SIGNALS IN THE NE AND SE QUADRANT TO THE NEW SIGNALS AS INDICATED.
- CONTRACTOR SHALL UTILIZE EXISTING EQUIPMENT IN CONTROLLER CABINET FOR IN CONTROLLER CABINET FOR THE INSTALLATION OF ALL NEW MATERIALS.
- SALVAGE ALL POLES AND SIGNS, AND REMOVED SIGNAL HEADS TO CITY.
- TRAFFIC SIGNAL WILL RUN FIXED-TIME OPERATION DURING CONSTRUCTION PHASE.

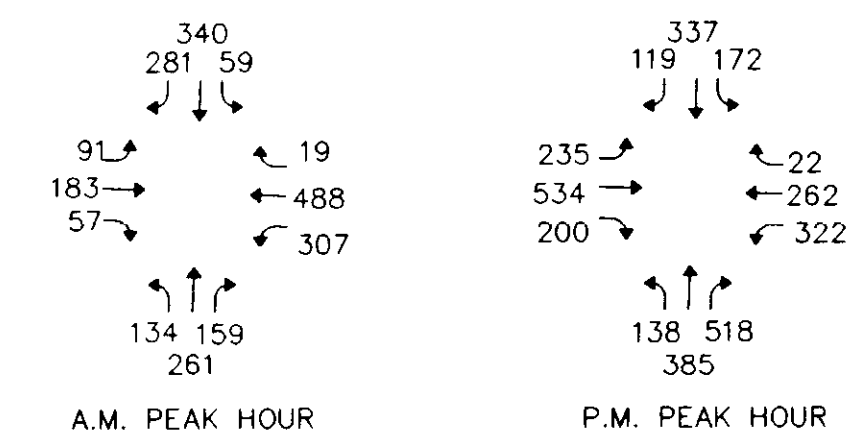
LEGEND

- CONTROLLER AND CABINET
- NEW MAST ARM POLE
- TYPE 2 OR TYPE 3 PULLBOX
- ➔ TRAFFIC SIGNAL HEAD W/BACKPLATE
- OR — OVERHEAD SIGN / STREET NAME SIGN
- VEHICLE LOOP DETECTOR
- 5/c 5 CONDUCTOR SIGNAL CABLE - AWG #14
- 7/c 7 CONDUCTOR SIGNAL CABLE - AWG #14
- S.C. SHIELDED CABLE (2 CONDUCTOR - AWG #14)
- LUM STREET LIGHT CABLE AWG (1 CONDUCTOR - AWG #10)
- CONDUIT RUN
- EMERGENCY VEHICLE DETECTOR
- E.C. EMERGENCY VEHICLE CABLE (3 CONDUCTOR AWG #20)

SIGNAL POLE CHART		LOCATION (FROM POLE - FT)		
LOCATION	MAST ARM LENGTH	SIGNAL HEADS	EMERGENCY VEHICLE DETECTOR	SIGNS
SE QUADRANT	44'	19.5', 29.5', 42.5'	25'	16', 38.5'
NE QUADRANT	45'	34.5', 44.5'	37'	23', 40.5'
NW QUADRANT	N/A	11.5', 22', 34', 46'	25.5'	16'



**TURNING MOVEMENT COUNTS
1994**



DETECTOR NUMBER	LOOP SIZE	NUMBER OF TURNS	PHASE CALLED	PRESENCE MODE	PULSE MODE
1A	6' x 50'	2-4-2	1	X	
1B	6' x 50'	2-4-2	1	X	
2A	6' x 50'	2	2	X	
2B	6' x 50'	2	2	X	
5	6' x 50'	2-4-2	5	X	
6A	6' x 50'	2	6	X	
6B	6' x 50'	2	6	X	

**SPILLWAY LINE ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)**

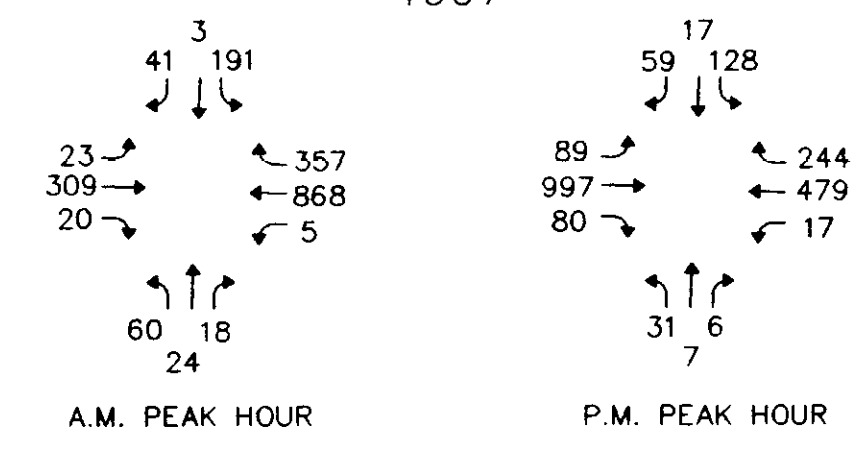
TRAFFIC SIGNAL PLAN @
SPILLWAY ROAD AND OLD CANTON ROAD
CITY OF RIDGLAND, MISSISSIPPI

WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: B.F. DATE: 7-7-97 SHEET NUMBER: 28
REVIEWED BY: B.S. SCALE: 1"=30'

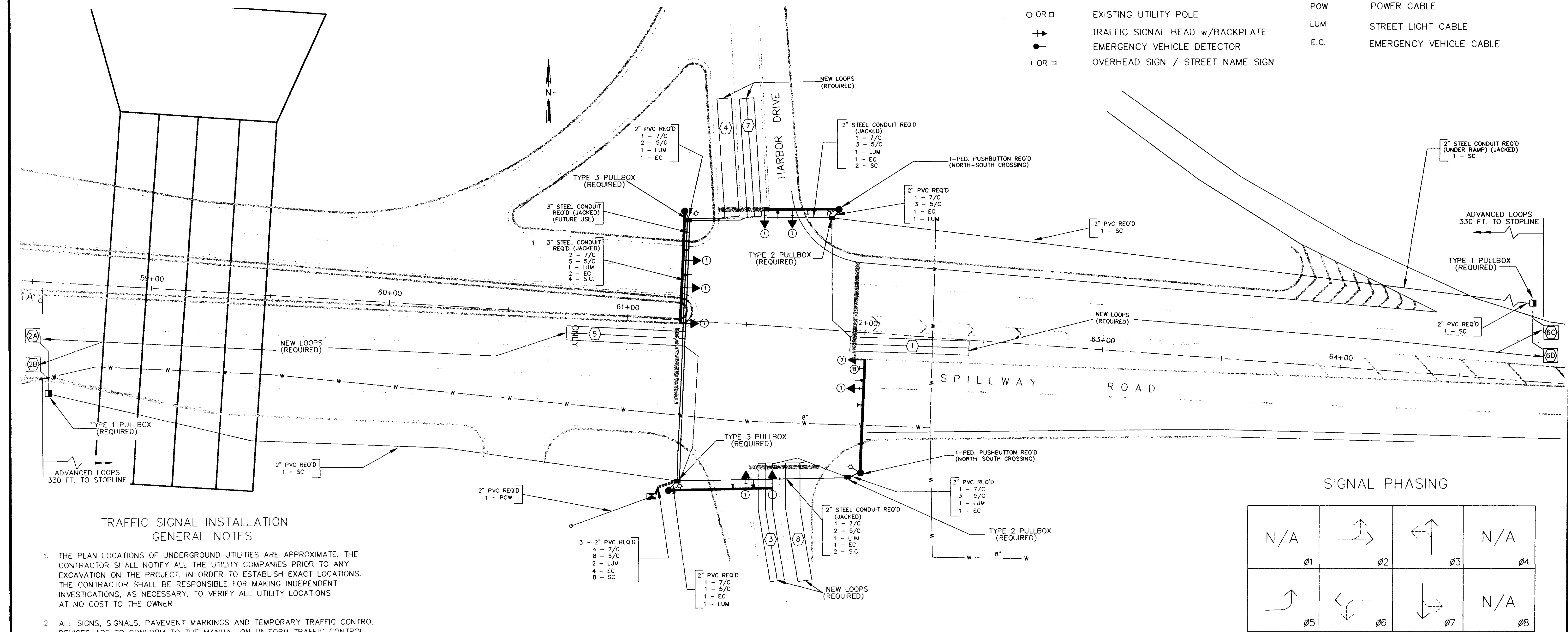
LOCATION	MAST ARM LENGTH	LOCATION (FROM POLE - FT)		
		SIGNAL HEADS	EMERGENCY VEHICLE DETECTOR	SIGNS
SW QUADRANT	44'	32.5', 43.5'	36'	27'
NW QUADRANT	48'	21', 32', 47.5'	27'	16.5'
SE QUADRANT	48'	35', 47.5'	39'	28', 43.5'
NE QUADRANT	32'	20', 31'	26'	13'

TURNING MOVEMENT COUNTS
1997



LEGEND

- ☒ CONTROLLER AND CABINET
- TYPE 1 PULLBOX
- TYPE 2 OR TYPE 3 PULLBOX
- NEW MAST ARM POLE
- CONDUIT RUN
- OR □ EXISTING UTILITY POLE
- EMERGENCY VEHICLE DETECTOR
- OR = OVERHEAD SIGN / STREET NAME SIGN
- OR □ VEHICLE LOOP DETECTOR
- 5/c 5 CONDUCTOR SIGNAL CABLE
- 7/c 7 CONDUCTOR SIGNAL CABLE
- S.C. SHIELDED CABLE (2 CONDUCTOR)
- POW POWER CABLE
- LUM STREET LIGHT CABLE
- E.C. EMERGENCY VEHICLE CABLE

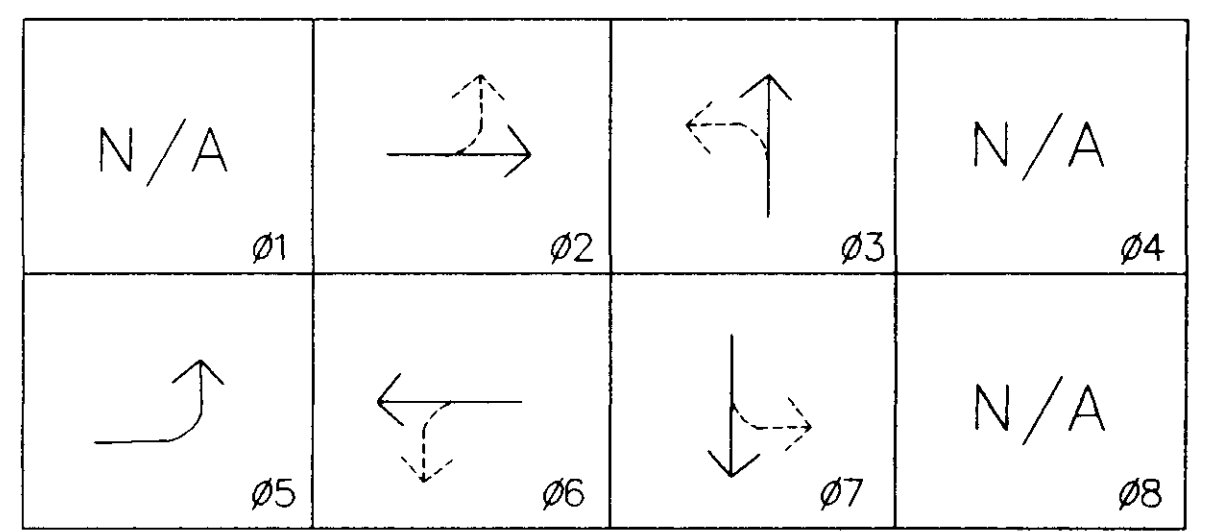


TRAFFIC SIGNAL INSTALLATION
GENERAL NOTES

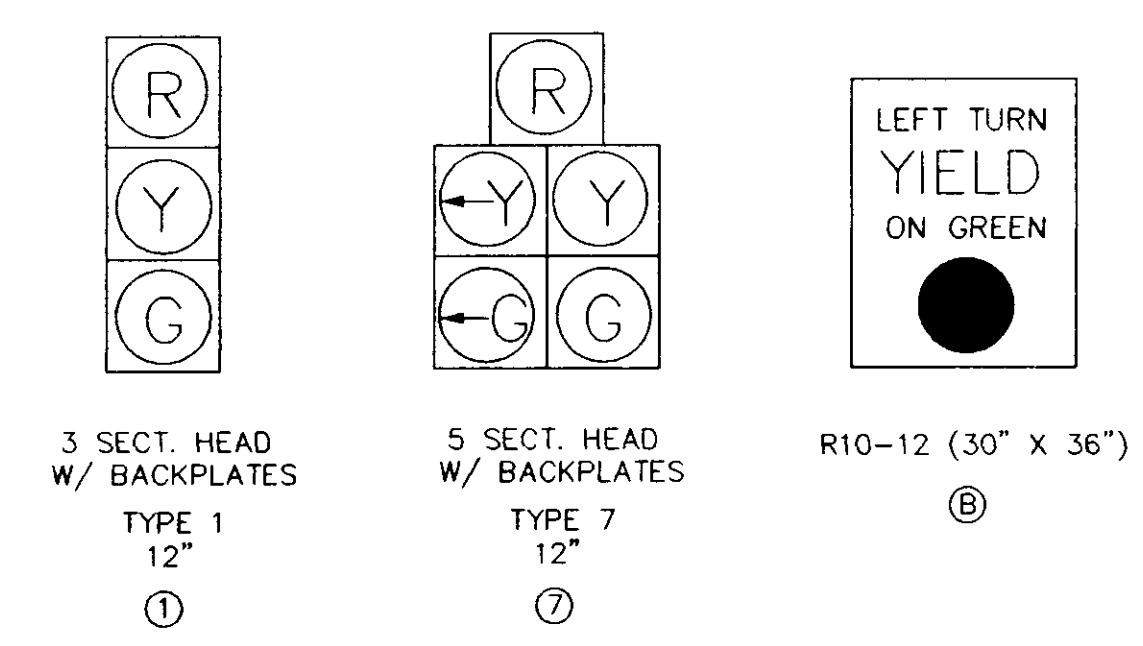
- THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY ALL THE UTILITY COMPANIES PRIOR TO ANY EXCAVATION ON THE PROJECT, IN ORDER TO ESTABLISH EXACT LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INDEPENDENT INVESTIGATIONS, AS NECESSARY, TO VERIFY ALL UTILITY LOCATIONS AT NO COST TO THE OWNER.
- ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL DEVICES ARE TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (1988) EDITION AND ALL SUBSEQUENT REVISIONS.
- ALL RAISED OBJECTS ARE TO BE PLACED A MINIMUM OF 2' BEHIND THE FACE OF CURB. NEW TRAFFIC SIGNAL POLES ARE TO BE PLACED A MINIMUM OF 10' BEHIND THE EDGE OF PAVEMENT, EXCEPT WHERE CONFLICTS WITH UTILITIES AND / OR RIGHTS-OF-WAY EXISTS.
- ALL POLES, PULLBOXES, CONTROLLERS AND PAVEMENT MARKINGS SHALL BE FIELD LOCATED BY THE ENGINEER AND THE CONTRACTOR AT THE NEAREST PRACTICAL LOCATION INDICATED ON THE PLAN SHEETS.
- THE SIGNAL CONTROLLER TIMINGS SHALL BE PROVIDED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAKE APPLICATION FOR POWER SERVICE, COORDINATING WITH CITY OFFICIALS AND UTILITY COMPANY INVOLVED, IN ADVANCE OF REQUIRING THE ELECTRICAL SERVICE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC SIGNS. ANY MODIFICATIONS REQUIRED TO THESE DEVICES SHALL BE PERFORMED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL TRAFFIC IN THE PROJECT, ONCE WORK HAS BEGUN.

DETECTOR ASSIGNMENT SUMMARY					
DETECTOR NUMBER	LOOP SIZE	NUMBER OF TURNS	PHASE CALLED	PRESENCE MODE	PULSE MODE
1	6'x 50'	2-4-2	6	X	
2A,2B	6'x 6'	3	2		X
3	6'x 50'	2-4-2	3	X	
4	6'x 50'	2	7	X	
5	6'x 50'	2-4-2	5	X	
6A,6B	6'x 6'	3	6		X
7	6'x 50'	2-4-2	7	X	
8	6'x 50'	2	3	X	

SIGNAL PHASING



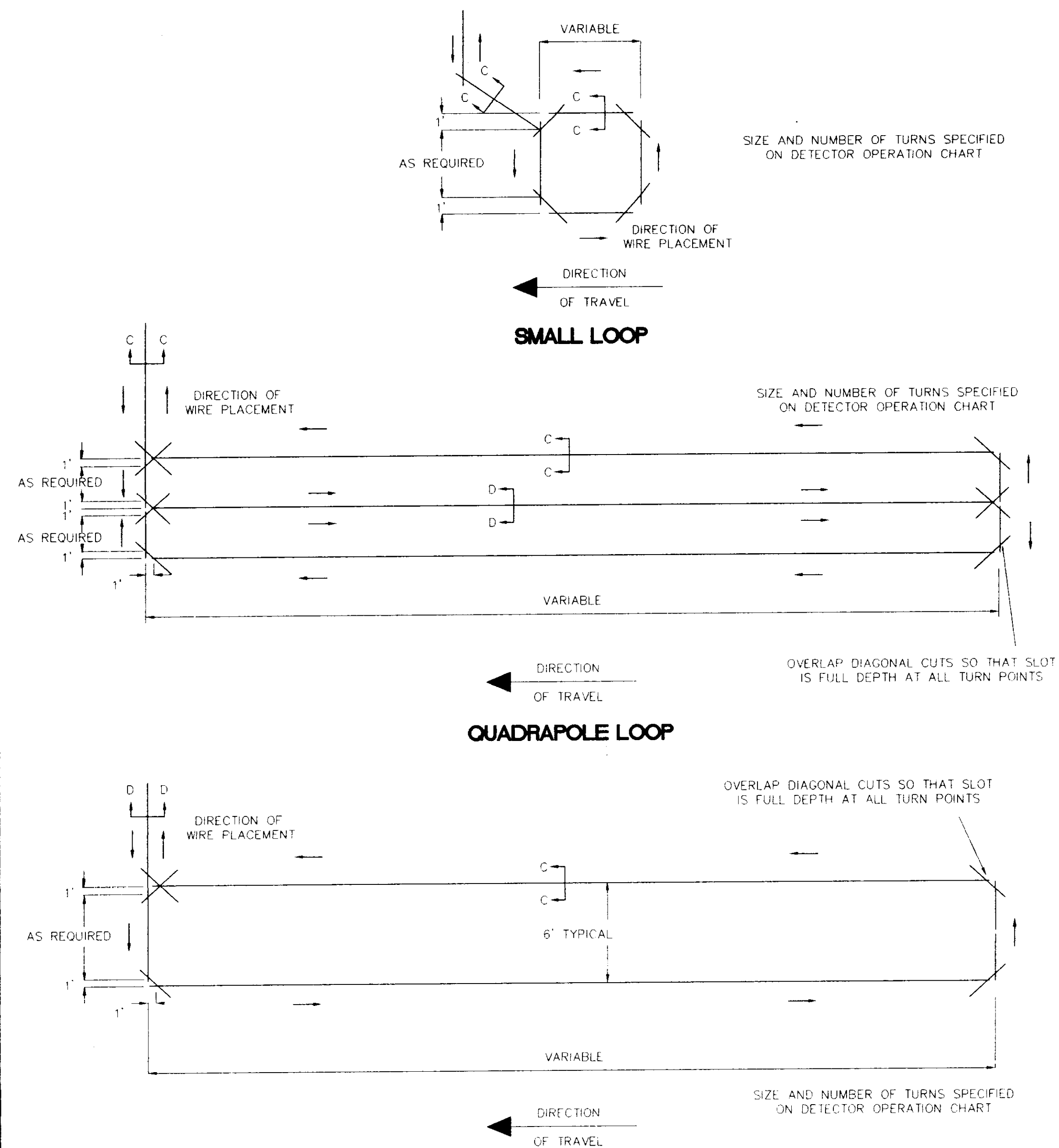
SIGNAL HEADS & SIGNS



FLASHING OPERATION

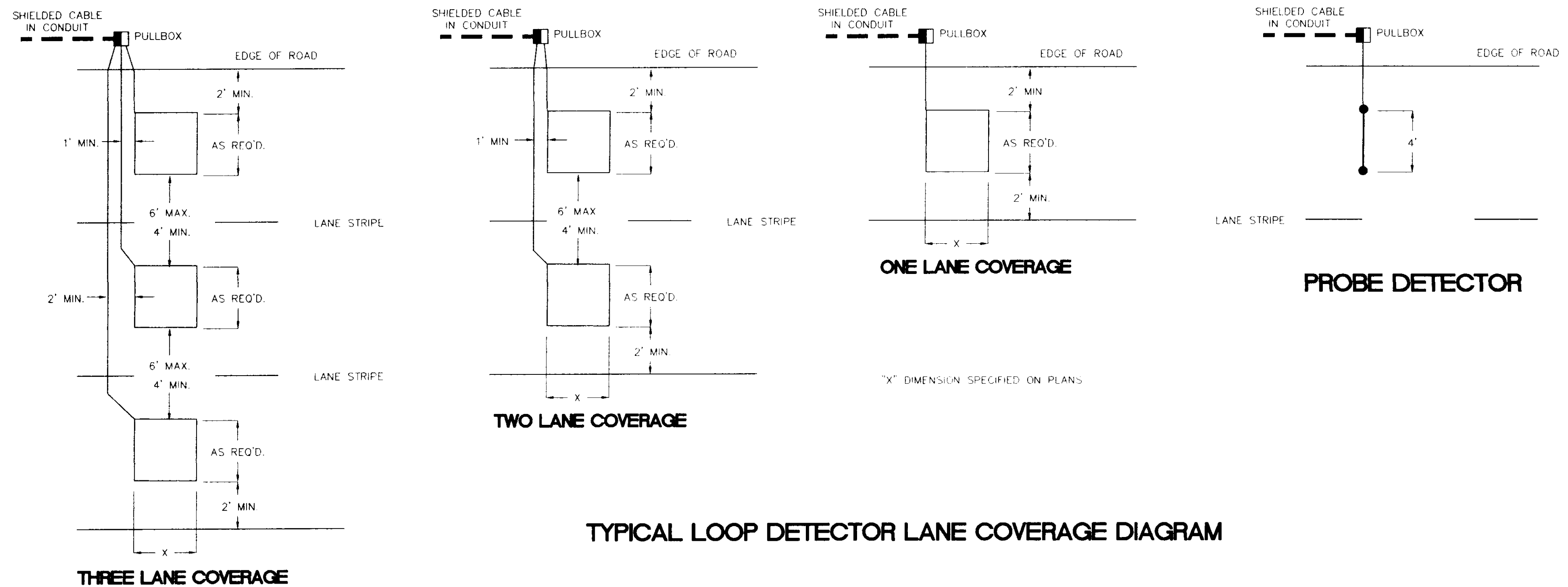
- YELLOW - Ø2,Ø5,Ø6
- RED - Ø3,Ø7
- EMERGENCY PRE-EMPT
- CHANNEL 1 - Ø2,Ø5
- CHANNEL 2 - Ø3
- CHANNEL 3 - Ø6
- CHANNEL 4 - Ø7

SPILLWAY LINE ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)
TRAFFIC SIGNAL PLAN @
SPILLWAY ROAD AND HARBOR DRIVE
CITY OF RIDGELAND, MISSISSIPPI
WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi
DRAWN BY: B.F. DATE: 7-7-97 SHEET NUMBER
REVIEWED BY: B.S. SCALE: 1"=20' 29

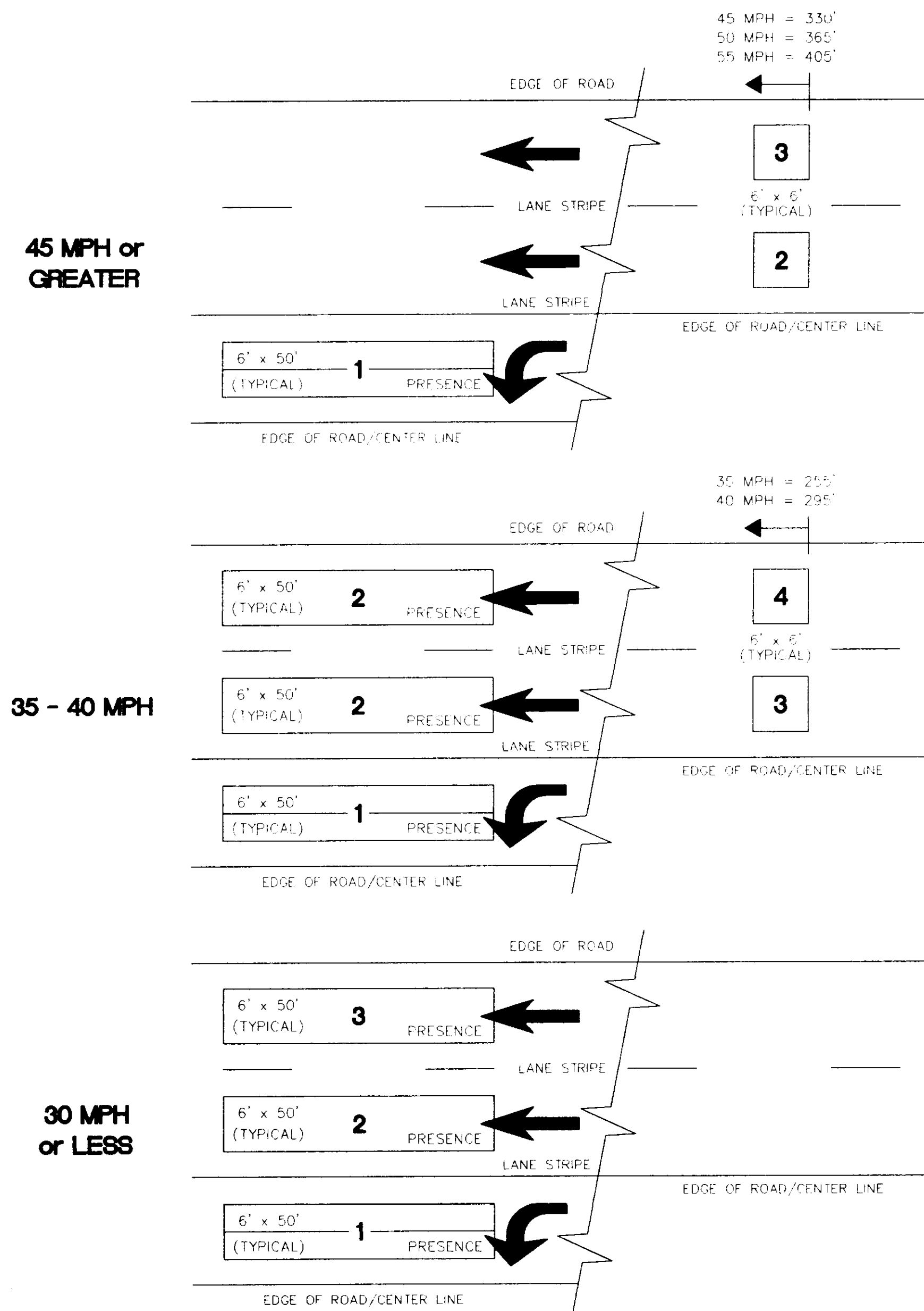


SAW SLOT AND LOOP WIRE INSTALLATION PROCEDURES

1. CONCRETE PAVEMENT JOINTS SHALL NOT BE USED FOR EITHER LOOP OR FEEDER WIRE. NO LOOPS ARE TO BE INSTALLED THROUGH, OVER, OR UNDER TRANSVERSE CONCRETE JOINTS IN CONCRETE PAVEMENT. NO MANHOLES, INLETS, VALVES, ETC. MAY BE LOCATED WITHIN A LOOP. IF JOINTS OR MANHOLES ARE ENCOUNTERED, THE LOCATION OF THE LOOP MAY BE VARIED SLIGHTLY AS DIRECTED BY THE ENGINEER. IF JOINTS OR MANHOLES ARE UNAVOIDABLE, SMALLER LOOPS, THE SIZE TO BE DETERMINED BY THE ENGINEER, MAY BE USED INSTEAD OF ONE LARGER LOOP AND SHALL PROVIDE THE SAME AREA OF COVERAGE AS THE LARGE LOOP. THE SMALLER LOOPS USED TO REPLACE THE ONE LARGER LOOP MAY BE CONNECTED TO ONE DETECTOR AMPLIFIER.
2. WHEN A BEND OR CORNER IS REQUIRED THE SLOTS PRODUCING THE "WOULD-BE" RIGHT ANGLE SHALL NOT OVERLAP.
3. WHEN A BEND OR CORNER IS REQUIRED THE SLOTS PRODUCING THE ANGLES APPROXIMATELY 45° SHALL OVERLAP THE SLOTS IT CONNECTS. THIS IS TO INSURE FULL DEPTH OF SLOTS AT BENDS OR CORNERS.
4. ALL CORNERS OF THE LOOP SHALL BE CUT AT A 45° ANGLE AND HAVE A MINIMUM DIAGONAL LENGTH OF 16".
5. SAW CUTS IN THE PAVEMENT SHALL BE FLUSHED WITH CLEAN WATER UNDER SUFFICIENT PRESSURE TO REMOVE MUD AND SMALL DEBRIS. SAW CUTS SHALL THEN BE DRIED AND CLEANED OF ALL DEBRIS BEFORE INSTALLING THE LOOP WIRE.
6. ONE CONTINUOUS, UNBROKEN LENGTH OF WIRE SHALL BE USED TO FORM A LOOP OF THE NUMBER OF TURNS AS SPECIFIED IN THE PLANS. THE CONTINUOUS RUN SHALL BE FROM THE PULLBOX/CONDULET INCLUDING THE LOOP AND RETURN.
7. ALL WIRE SHALL BE PUSHED INTO THE SAW CUT WITH WOOD STICKS TO INSURE THE INSULATION IS NOT DAMAGED. THE USE OF METAL TOOLS IS NOT PERMITTED.
8. SPLICE BETWEEN LEAD-IN AND CONDULET ALL REQUIRED IN PULLBOX OR CONDULET. ALL SPLICES IN THE LEAD-IN WIRE SHALL BE MADE ONLY IN THE PULLBOX OR CONDULET. SPLICES MUST BE CAREFULLY MADE TO INSURE CONSTANT LOW RESISTANCE AND MUST BE INSULATED IN SUCH A MANNER THAT UNDER THE LOCAL PREVAILING CONDITIONS THE INSTALLATION MAINTAINS A RESISTANCE TO GROUND OF NOT LESS THAN 5 MEGOHMS. TO INSURE CONSISTENT LOW RESISTANCE CONNECTIONS, THE SPLICES SHALL BE SOLDERED TO PAVEMENT WITH RESIN FILLED SOLDER AND WATERPROOFED BY SHRINK WRAP OR BY OTHER METHOD APPROVED BY THE ENGINEER. OPEN FLAME SOLDER SHALL NOT BE PERMITTED.
9. WHERE THE WIRES LEAVE THE LOOP, EACH PAIR OF LEAD-IN WIRES MUST BE TWISTED TOGETHER WITH A MINIMUM OF THREE TWISTS PER FOOT.
10. IF THE LEAD-IN IS TAKEN OVERHEAD THE WIRE MUST BE PROTECTED BY CONDUIT (TYPE 1) FROM UNDERGROUND TO SPAN.
11. WHEN A PULLBOX IS NOT USED IN THE LEAD-IN (THE WIRE WHICH CONNECTS THE LOOP TO THE DETECTOR AMPLIFIER), THE LOOP WIRE SHALL BE TWISTED A MINIMUM OF THREE TURNS PER FOOT FROM THE LOOP TO THE DETECTOR AMPLIFIER.



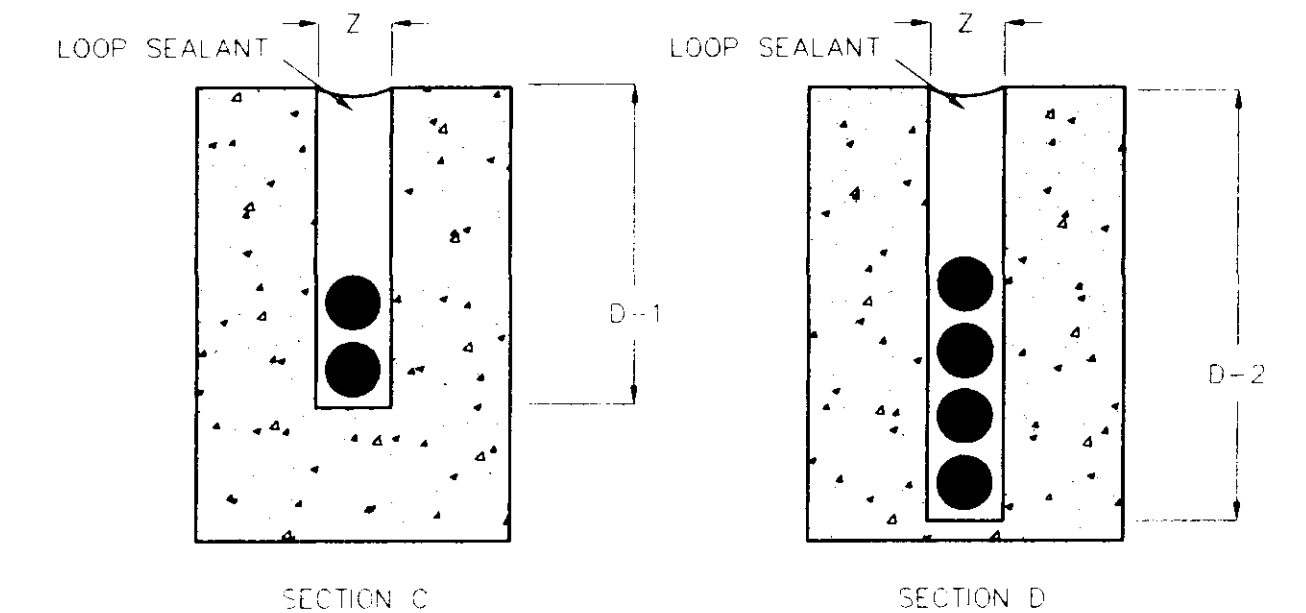
TYPICAL LOOP DETECTOR LANE COVERAGE DIAGRAM



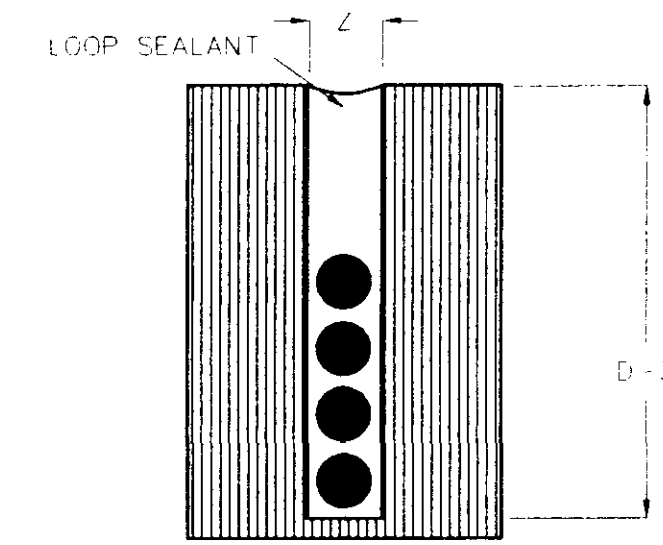
TYPICAL LOOP DETECTOR PLACEMENT DIAGRAM

3 = CHANNEL NUMBER
AMP 1-#2, AMP 2-#4, AMP 3-#6, AMP 4-#8

MPH IS BASED ON SPEED LIMIT
ALL DISTANCES FROM STOPLINE



LOOP IN CONCRETE



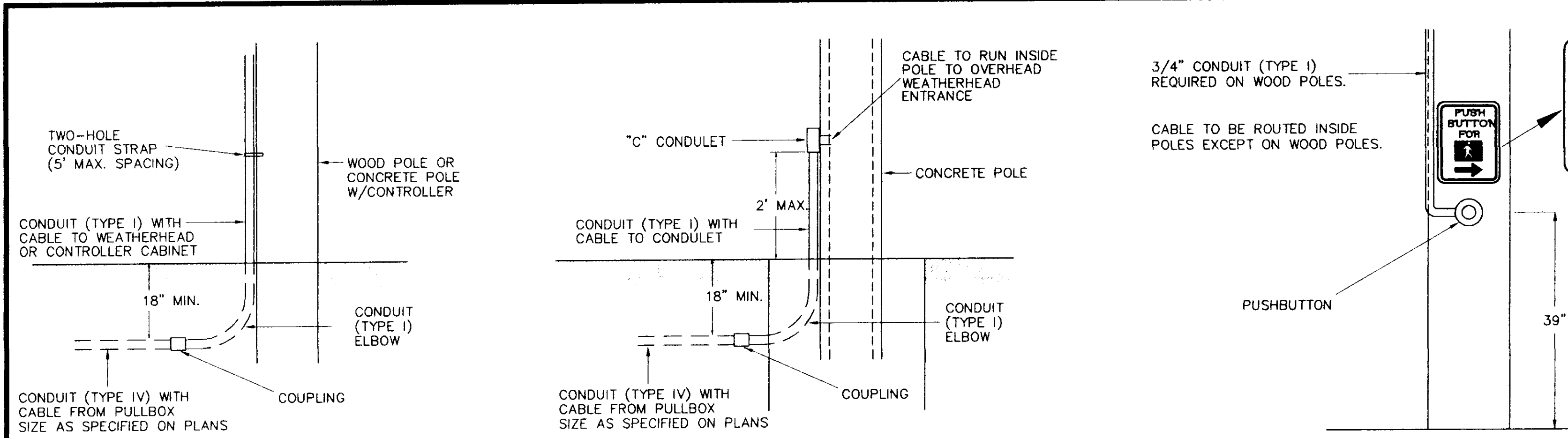
LOOP IN ASPHALT

SAW SLOT DETAIL

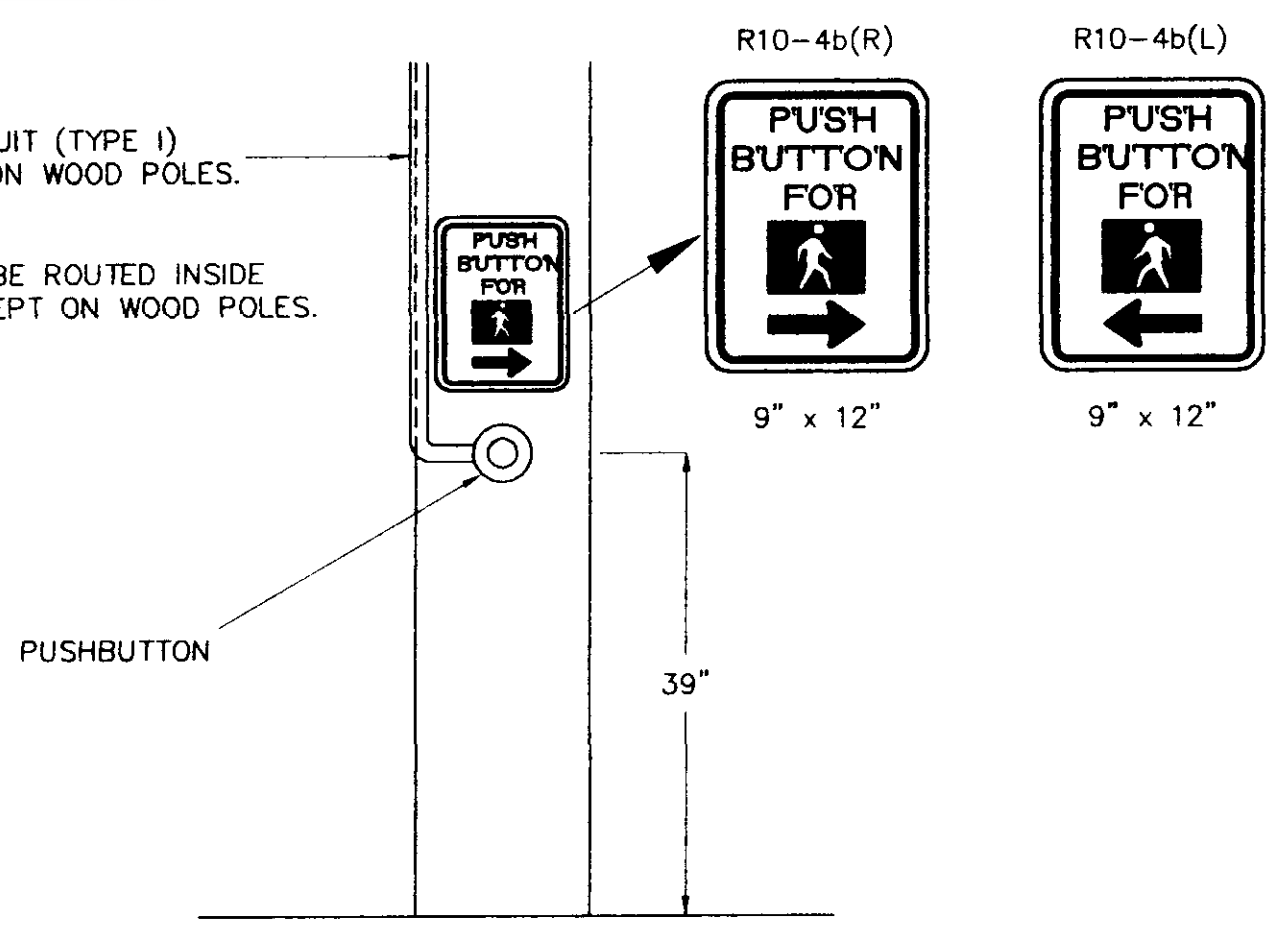
DEPTH	NUMBER OF WIRES				
	1	2	3	4	6
D-1	1.5"	2.0"	2.0"	2.5"	3.0"
D-2	-	2.0"	2.0"	2.5"	3.0"
D-3	2.0"	2.0"	2.5"	3.0"	3.0"

"Z" DIMENSION SHALL BE WIDE ENOUGH TO ACCOMMODATE LOOP WIRE WITHOUT CHAFING THE INSULATION (5/16" NOMINAL).

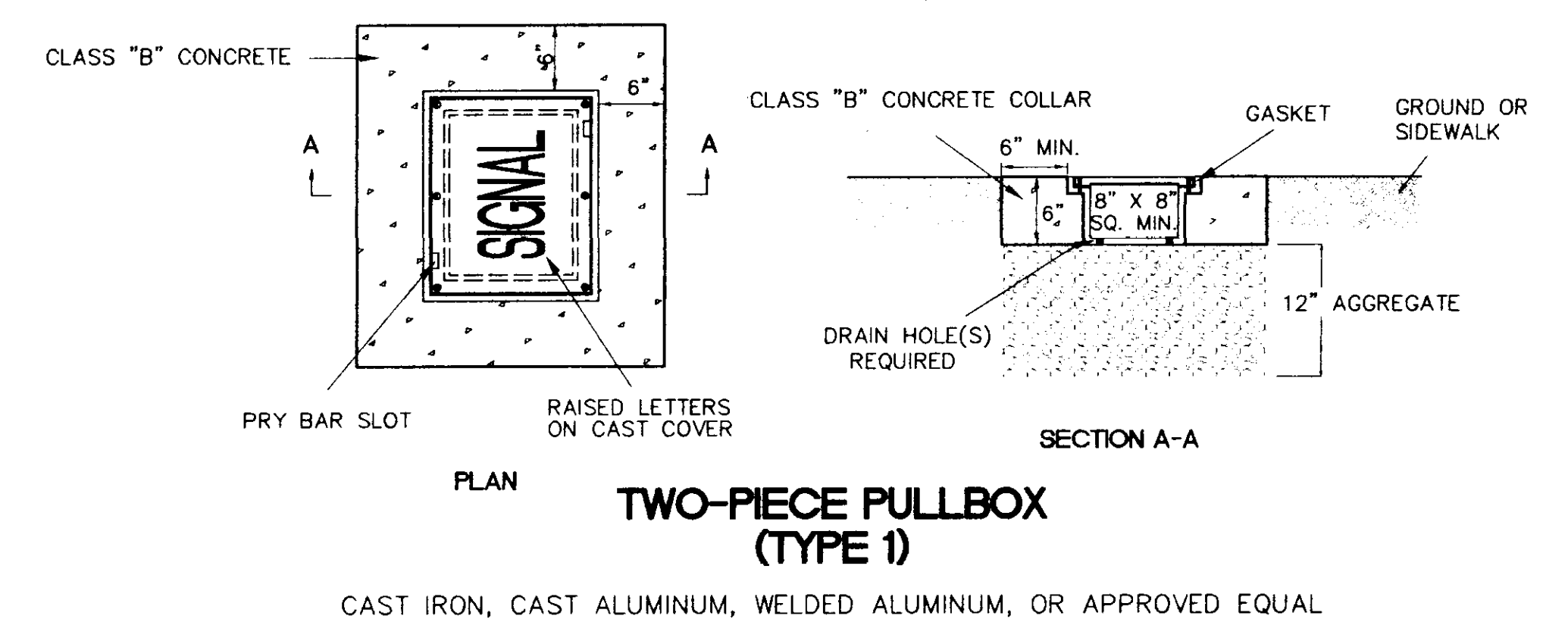
CITY OF RIDGELAND		
STANDARD SIGNAL DETAILS		
VEHICLE LOOP		
DETECTOR ASSEMBLY		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: B.P.	DATE: 4-24-97	SHEET NUMBER
REVIEWED BY: J.H.	SCALE: 1"=20'	30



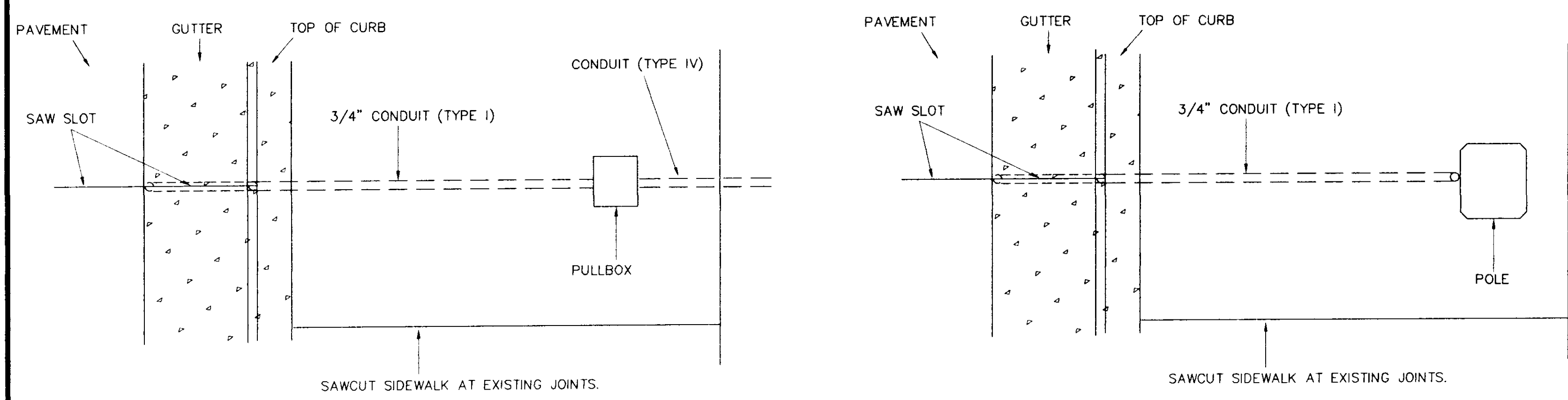
CONDUIT DETAIL AT POLES



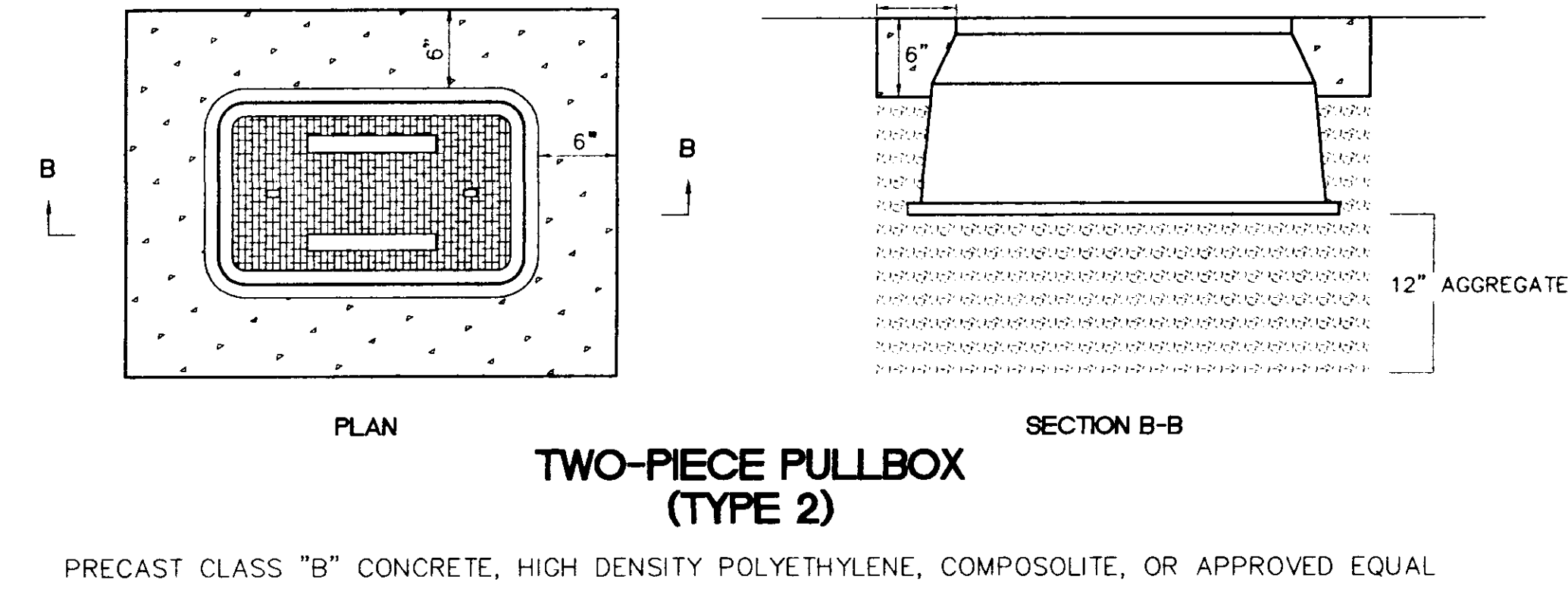
PEDESTRIAN PUSH BUTTON AND SIGN INSTALLATION DETAIL



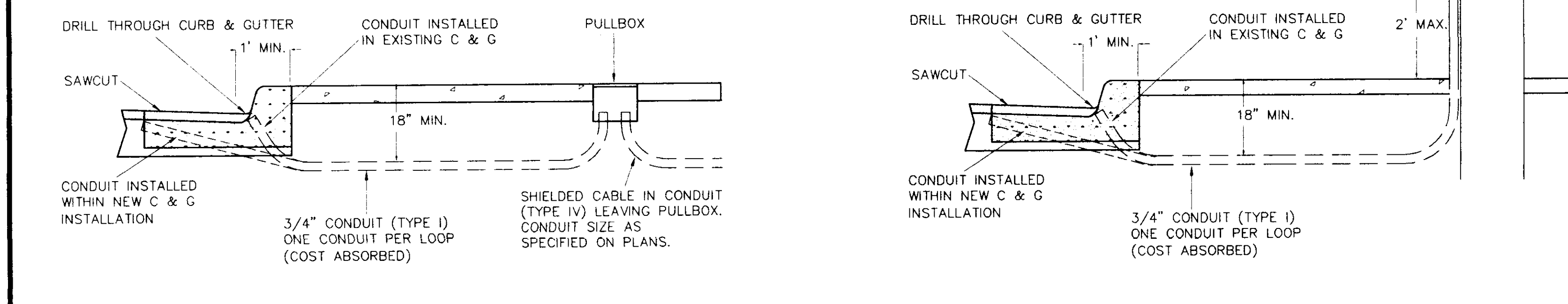
CAST IRON, CAST ALUMINUM, WELDED ALUMINUM, OR APPROVED EQUAL



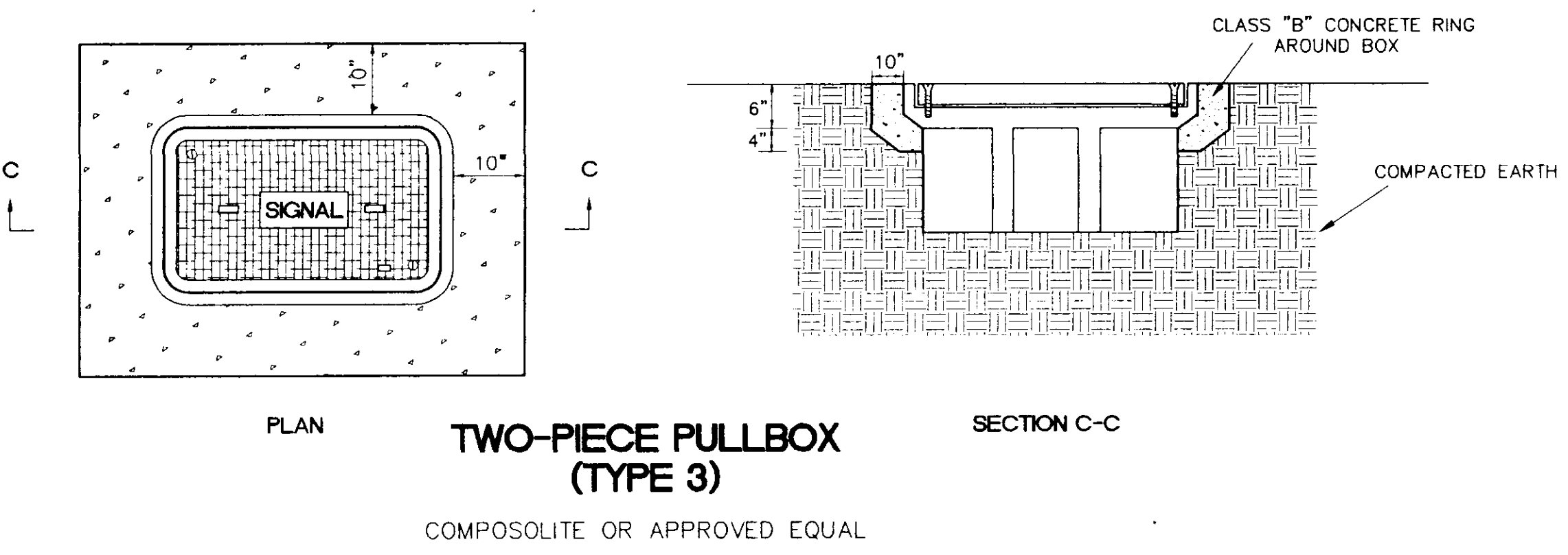
PLAN VIEW - LOOP LEAD-IN CONDUIT



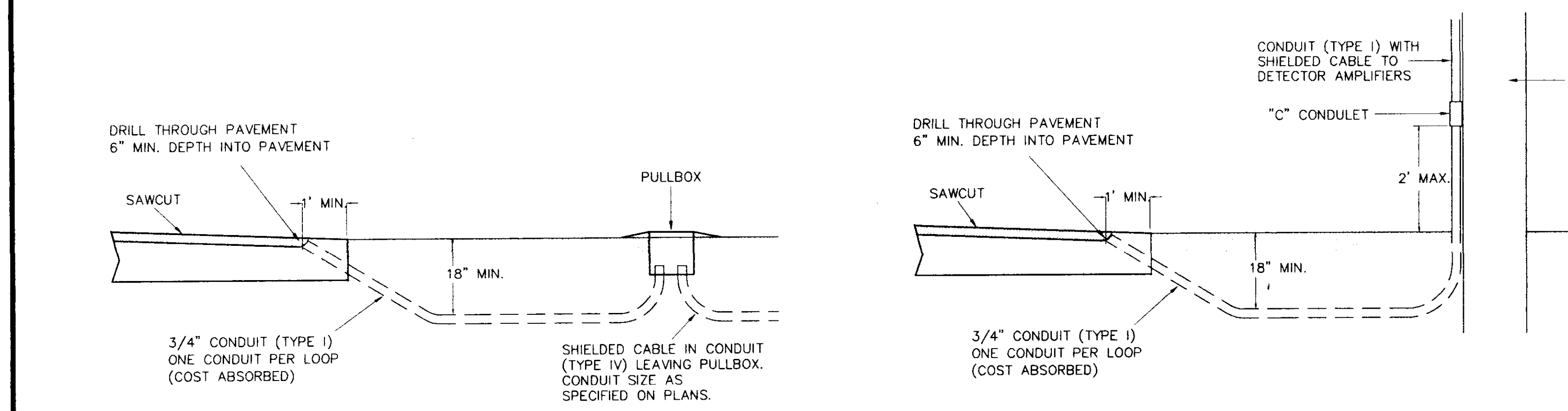
PRECAST CLASS "B" CONCRETE, HIGH DENSITY POLYETHYLENE, COMPOSOLITE, OR APPROVED EQUAL



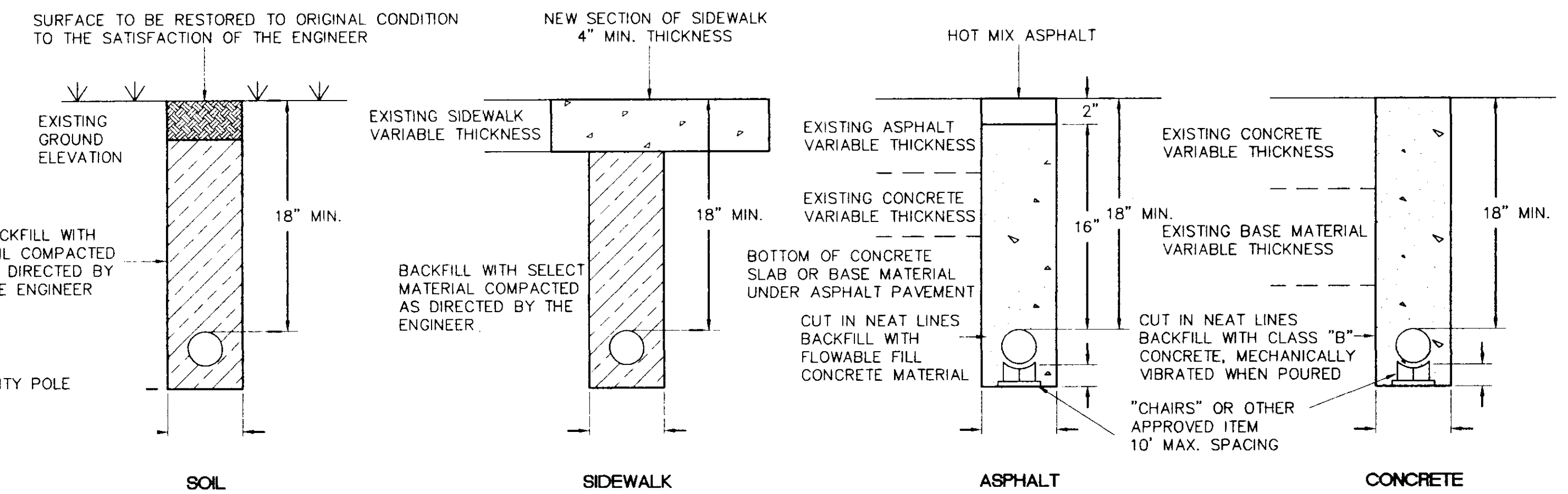
TYPICAL SECTION IN GUTTER AND SIDEWALK



COMPOSOLITE OR APPROVED EQUAL



TYPICAL SECTION IN EARTH

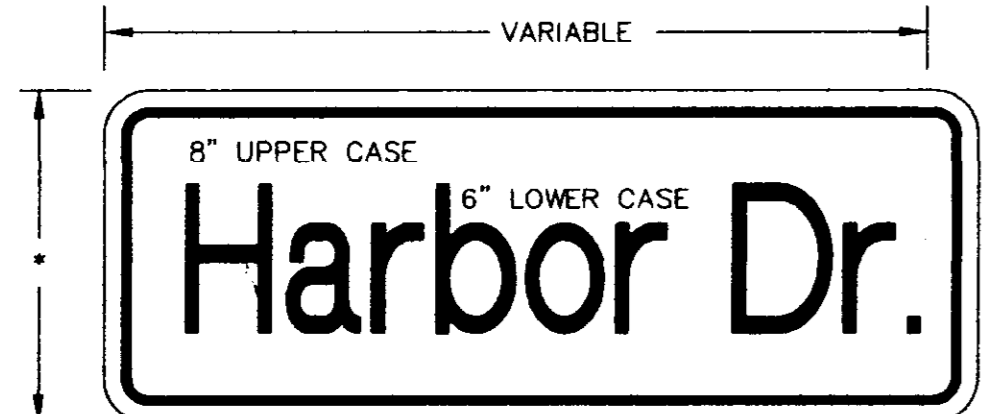


CONDUIT TRENCHING DETAIL

NOTES :

- CONDUIT TO BE SEALED WITH DUCT SEALER ONCE CABLE IS INSTALLED.
- SAWCUT SIDEWALK AT EXISTING JOINTS AND REPLACE ENTIRE SECTION TO MATCH EXISTING MATERIAL. WHEN NEW SIDEWALK IS BEING CONSTRUCTED, CONDUIT, PULLBOX, AND POLE ARE TO BE INSTALLED BEFORE SIDEWALK IS POURED.
- TYPE I CONDUIT IS RIGID STEEL; TYPE IV CONDUIT IS PVC.
- CONDUIT MAY BE TRENCHED OR JACKED. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION WORK UNDER ROADWAY WITH ROADWAY CONSTRUCTION PHASING IN ORDER TO MINIMIZE JACKING.

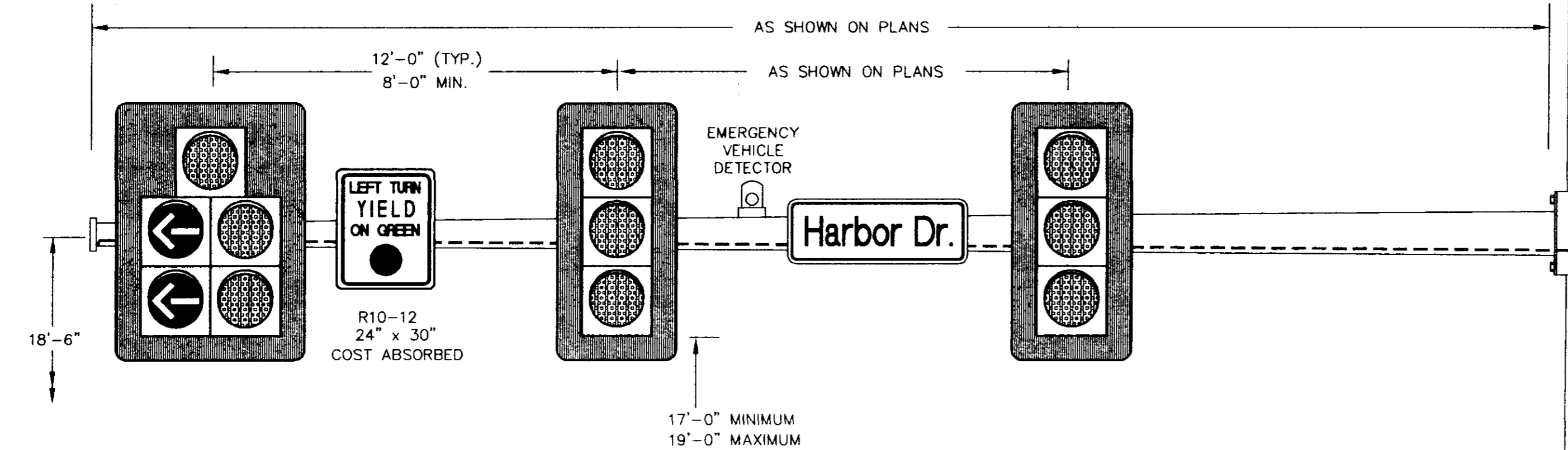
CITY OF RIDGELAND		
STANDARD SIGNAL DETAILS		
CONDUIT, PULLBOX AND PEDESTRIAN PUSHBUTTON		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: B.F.	DATE: 4-24-97	SHEET NUMBER
REVIEWED BY: J.K.	SCALE: 1"=30'	31



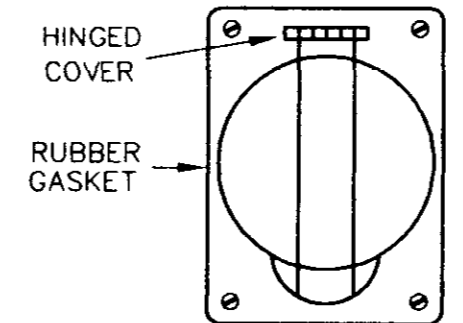
STREET NAME SIGNS (TYPICAL)

THICKNESS = 0.1"
 WHITE ON GREEN SHEETING
 8" UPPER CASE, 6" LOWER CASE LETTERS; SERIES "C"
 STREET NAME SIGNS REQUIRE A MINIMUM OF 2 MOUNTING BRACKETS
 (30" MAXIMUM SPACING BETWEEN BRACKETS)

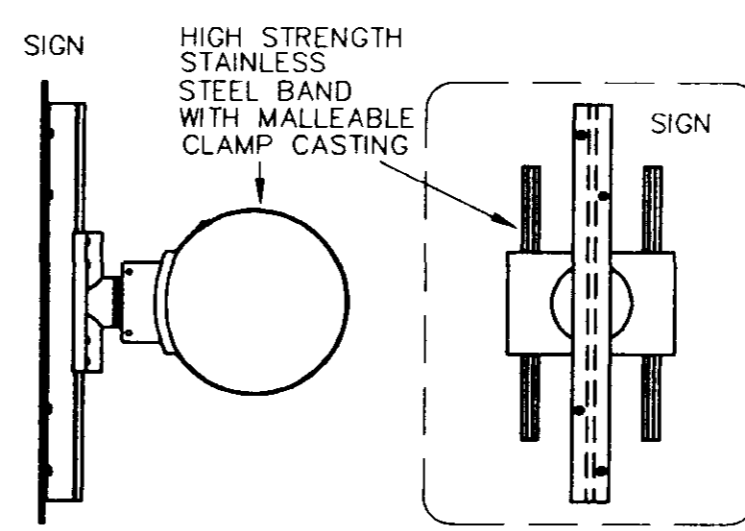
- NOTES:
1. WIRE ENTRANCE TO MAST ARM WILL BE FIELD DRILLED TO CORRESPOND TO THE LOCATION OF THE SIGNAL HEADS WHEN ALIGNED IN THE FIELD.
 2. ALL SIGNAL HEADS TO BE YELLOW IN COLOR.
 3. RED SECTION INDICATIONS TO BE APPROXIMATELY SAME HEIGHT.
 4. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE POLE MANUFACTURER.
 5. DESIGN WIND LOAD FOR POLES AND MAST ARMS IS 70 MPH.
 6. #6 COPPER GROUND WIRE INSIDE POLE AND MAST ARM TO BE COST ABSORBED.



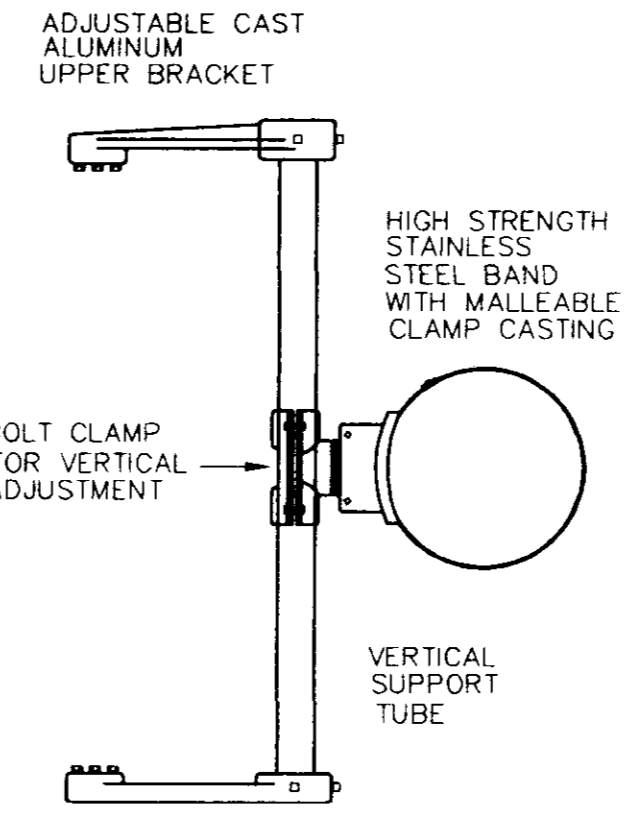
NOTES:
 LUMINAIRE AND PHOTOELECTRIC CONTROL
 250 WATT H.P.S.
 LIGHT FIXTURE WITH 250 WATT LAMPS AND PHOTO CELL TO BE PROVIDED BY THE CONTRACTOR.
 (COST ABSORBED)



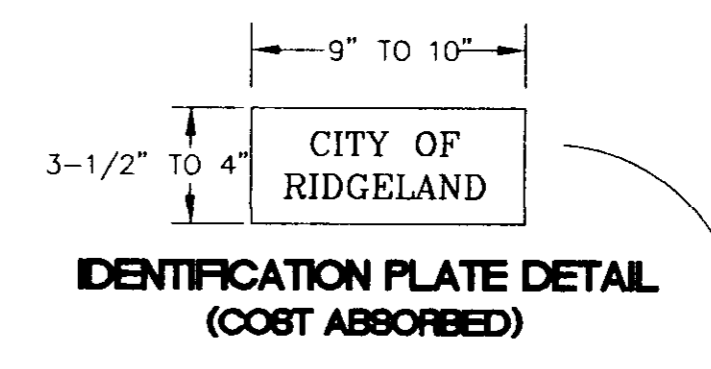
OUTLET
 OUTLET BOX WITH SINGLE 15 AMP - 125 VOLT POLARIZED RECEPTACLE (GROUNDING TYPE)



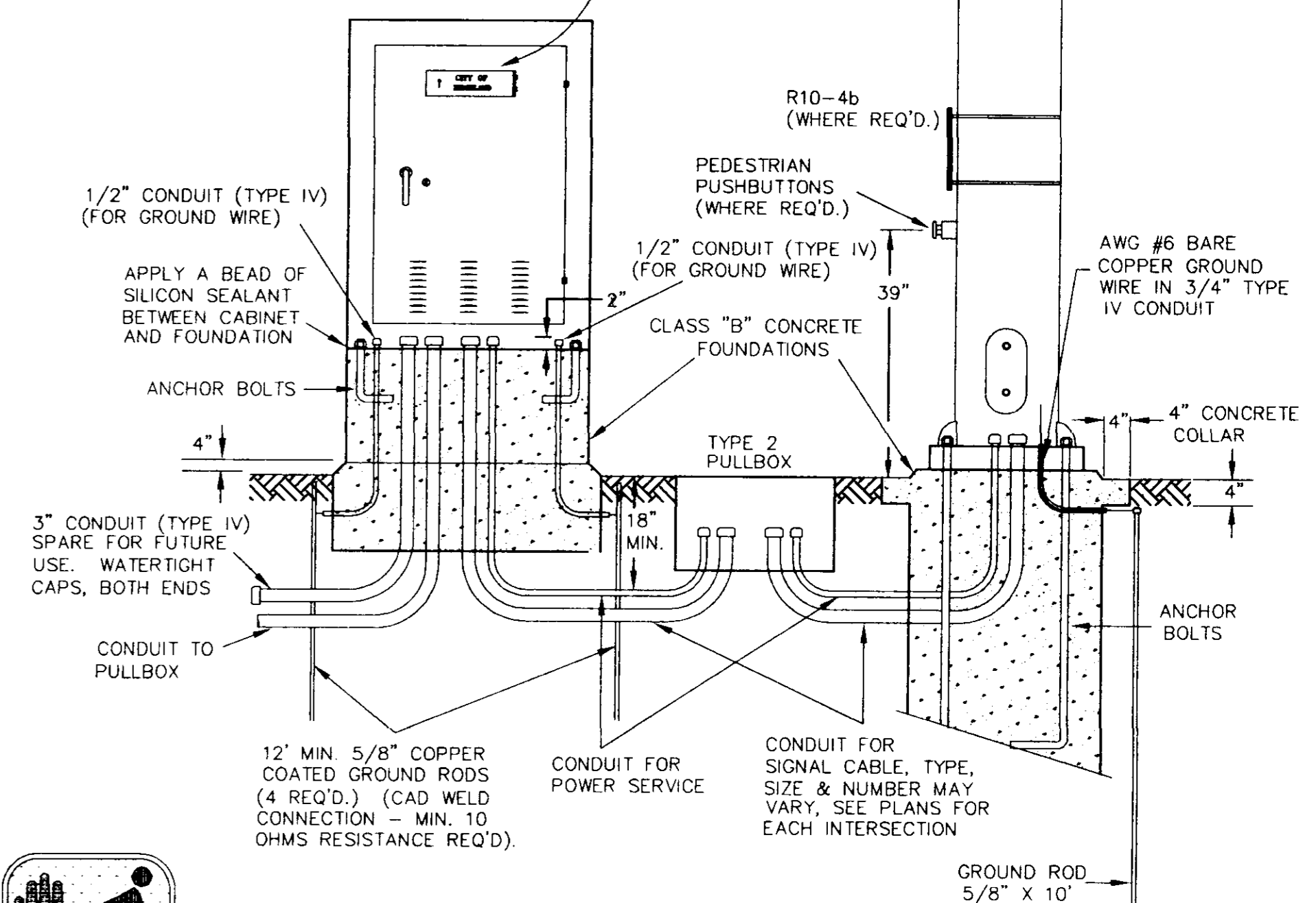
MAST ARM SIGN BRACKET (TYPICAL)



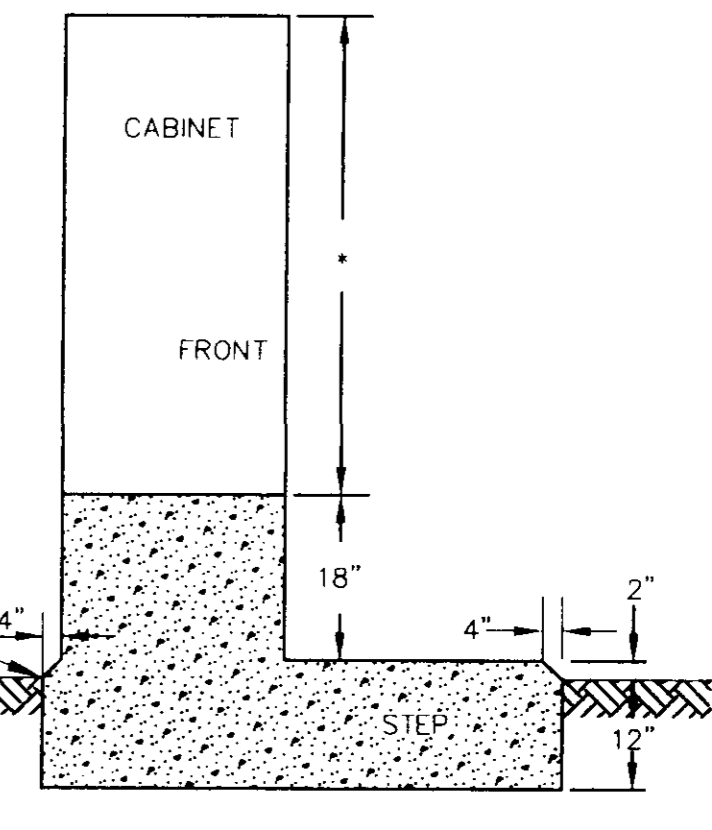
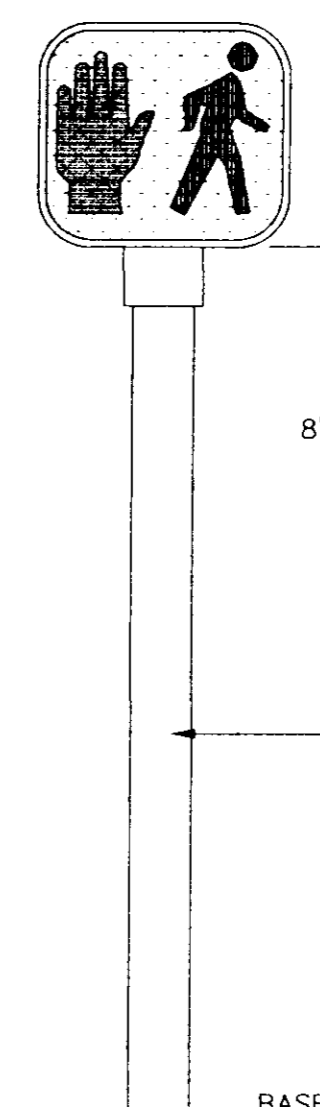
SIGNAL MOUNTING BRACKET (TYPICAL)



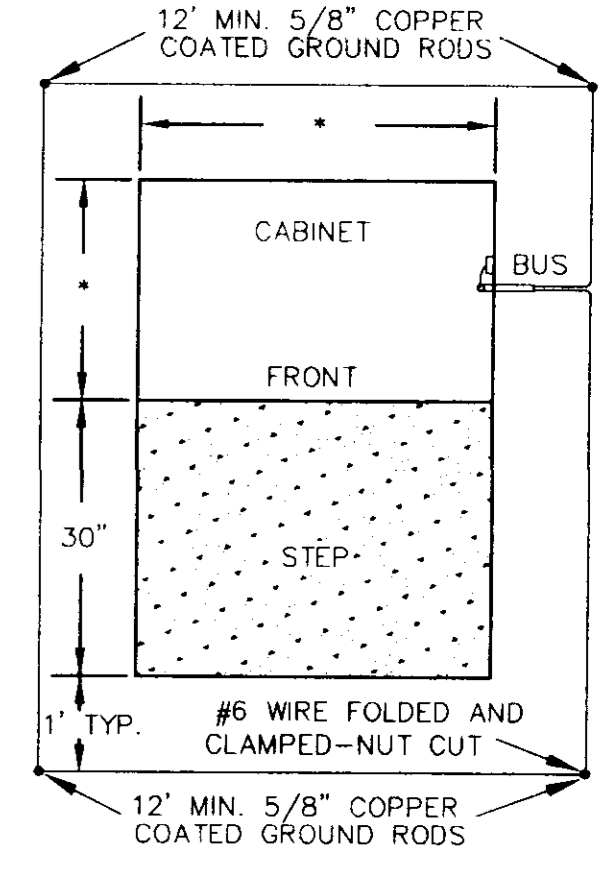
IDENTIFICATION PLATE DETAIL (COST ABSORBED)



FRONT VIEW



SIDE VIEW



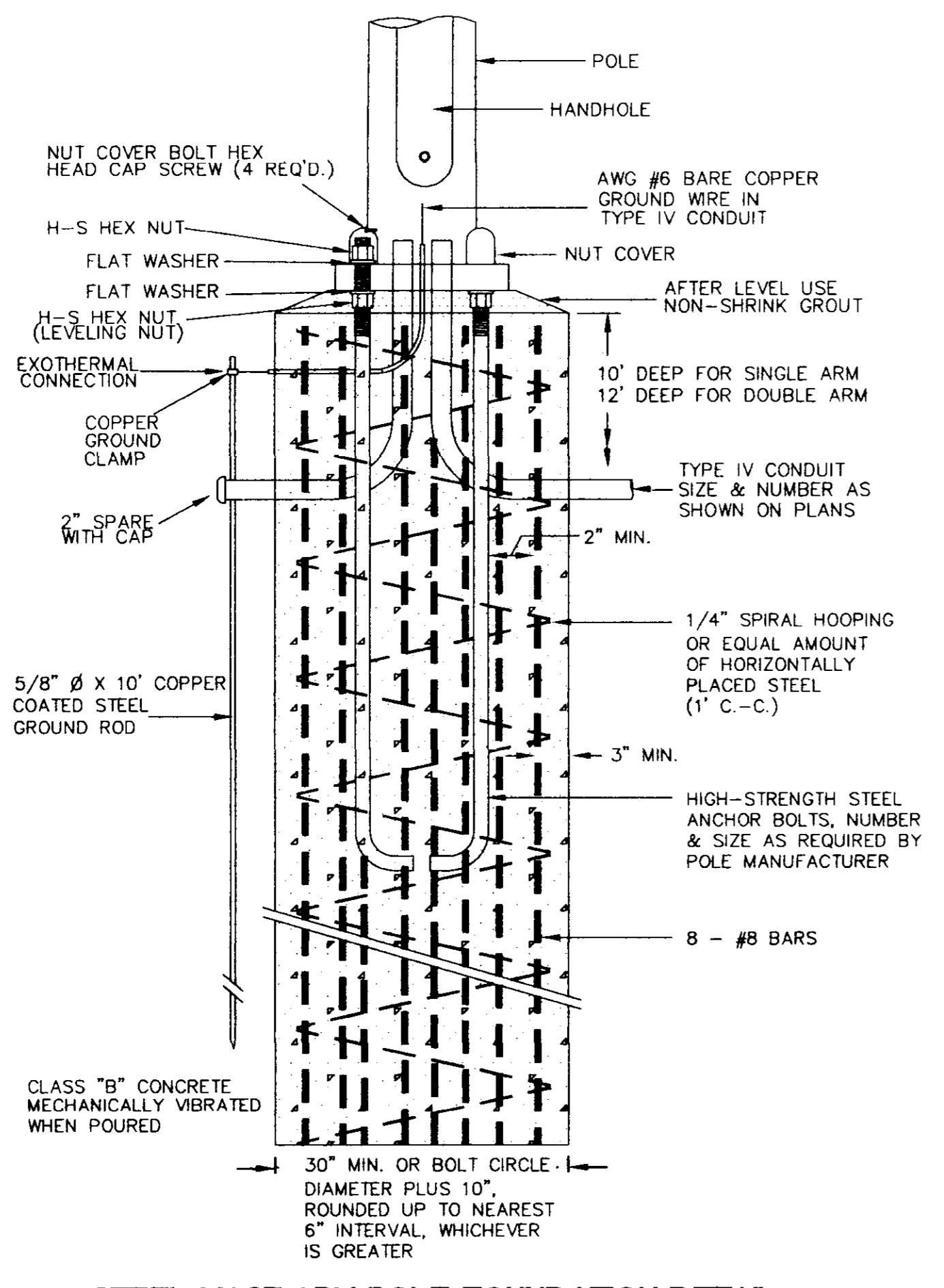
TOP VIEW

CONTROLLER BASE DETAIL

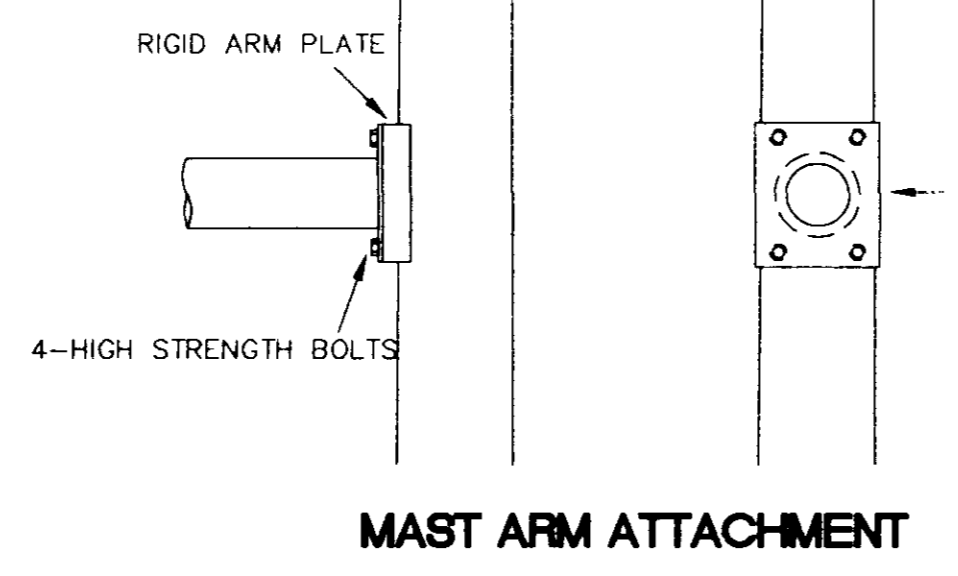
CABINET DIMENSIONS TO MEET SIGNAL CABINET MANUFACTURER'S SPECIFICATIONS.
 NOMINAL DIMENSIONS: 8-PHASE - D=26", W=44", H=55"
 4-PHASE - D=17", W=30", H=52"

GENERAL FOUNDATION NOTES

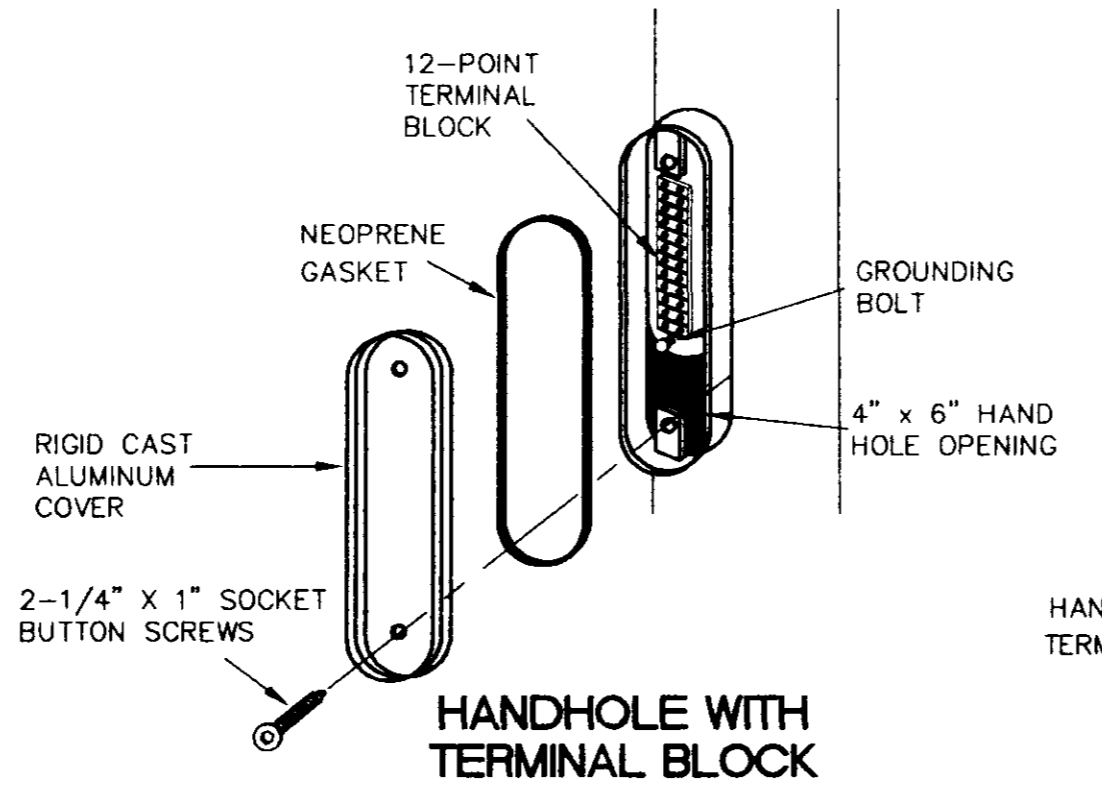
1. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE MANUFACTURER. ANY FOUNDATION FAILING TO MEET THESE DIMENSIONS WILL BE REJECTED.
2. TYPE IV CONDUIT TO BE RUN INTERNALLY FOR CONCRETE AND STEEL POLES; TYPE I CONDUIT RISERS REQUIRED FOR WOOD POLES.
3. DESIGN WIND LOAD FOR POLES SHALL BE 70 MPH.
4. FOUNDATIONS TO BE CLASS "B" CONCRETE, MECHANICALLY VIBRATED WHEN POURING.
5. MINIMUM STEEL POLE FOUNDATION SHALL BE 30" DIA. X 10' DEEP.
6. #6 COPPER GROUND WIRE AND 5/8" DIA. COPPER GROUND ROD REQ'D. FOR ALL POLE FOUNDATIONS. (COST ABSORBED).



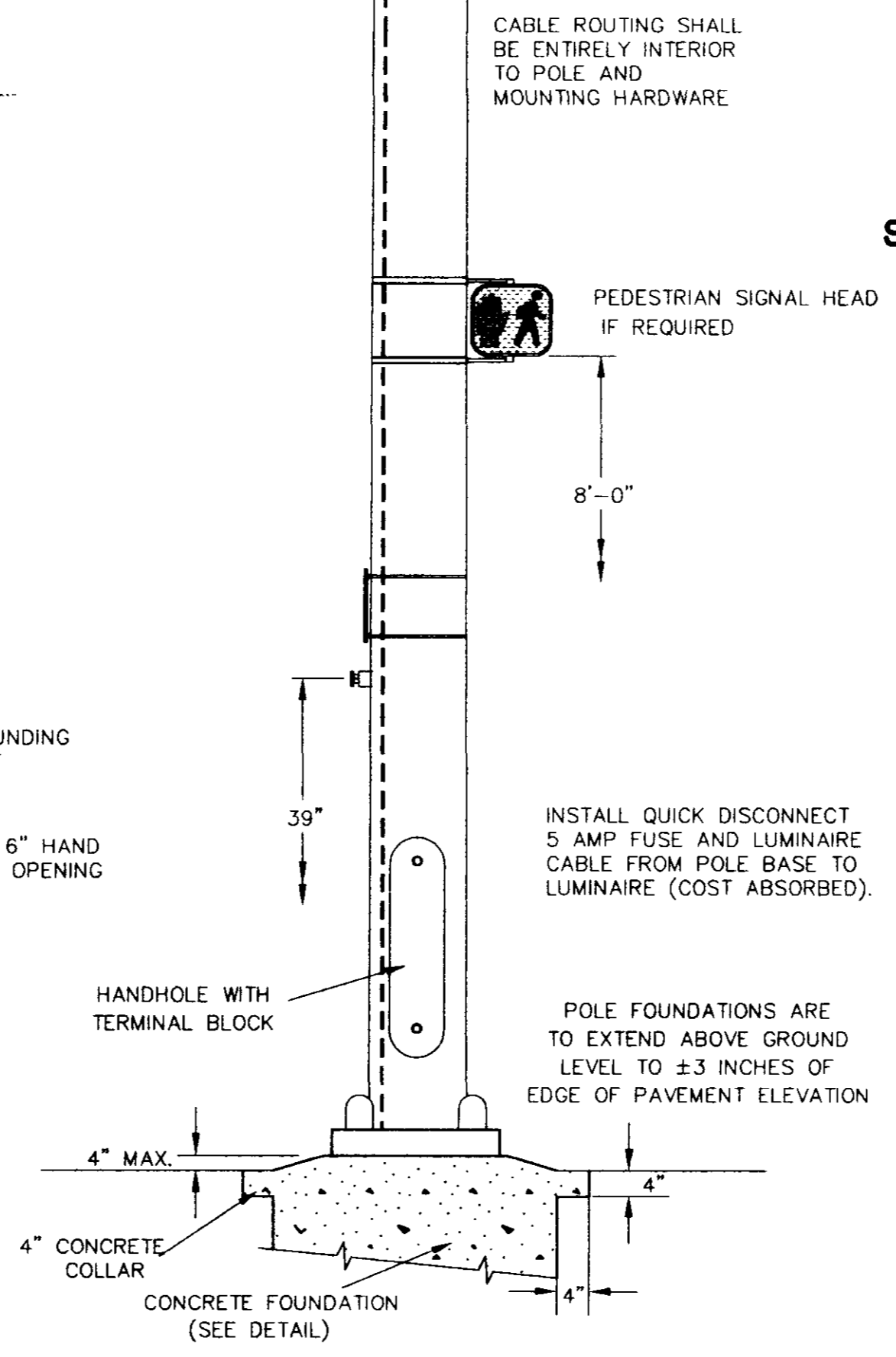
STEEL MAST ARM POLE FOUNDATION DETAIL



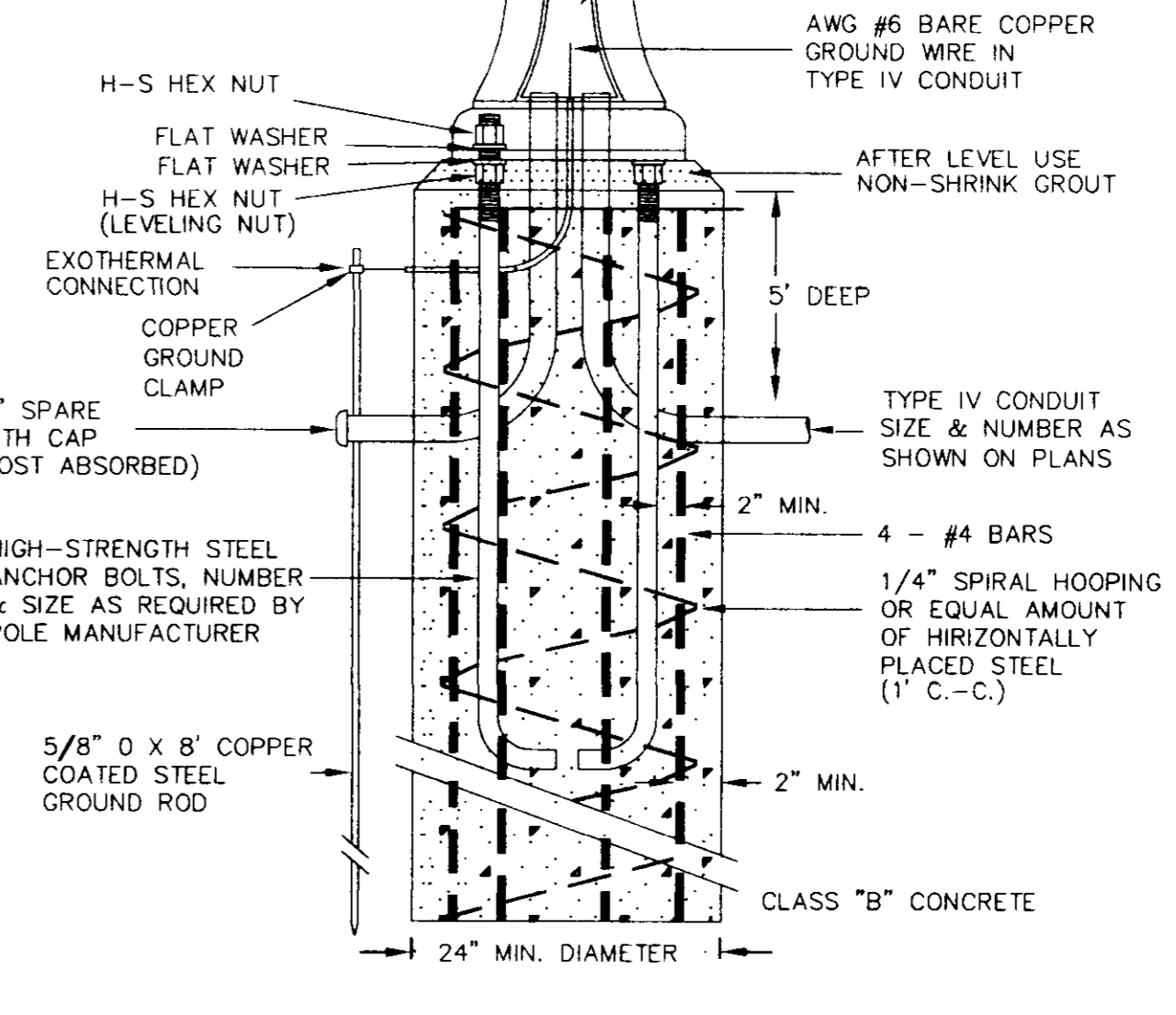
MAST ARM ATTACHMENT



HANDHOLE WITH TERMINAL BLOCK

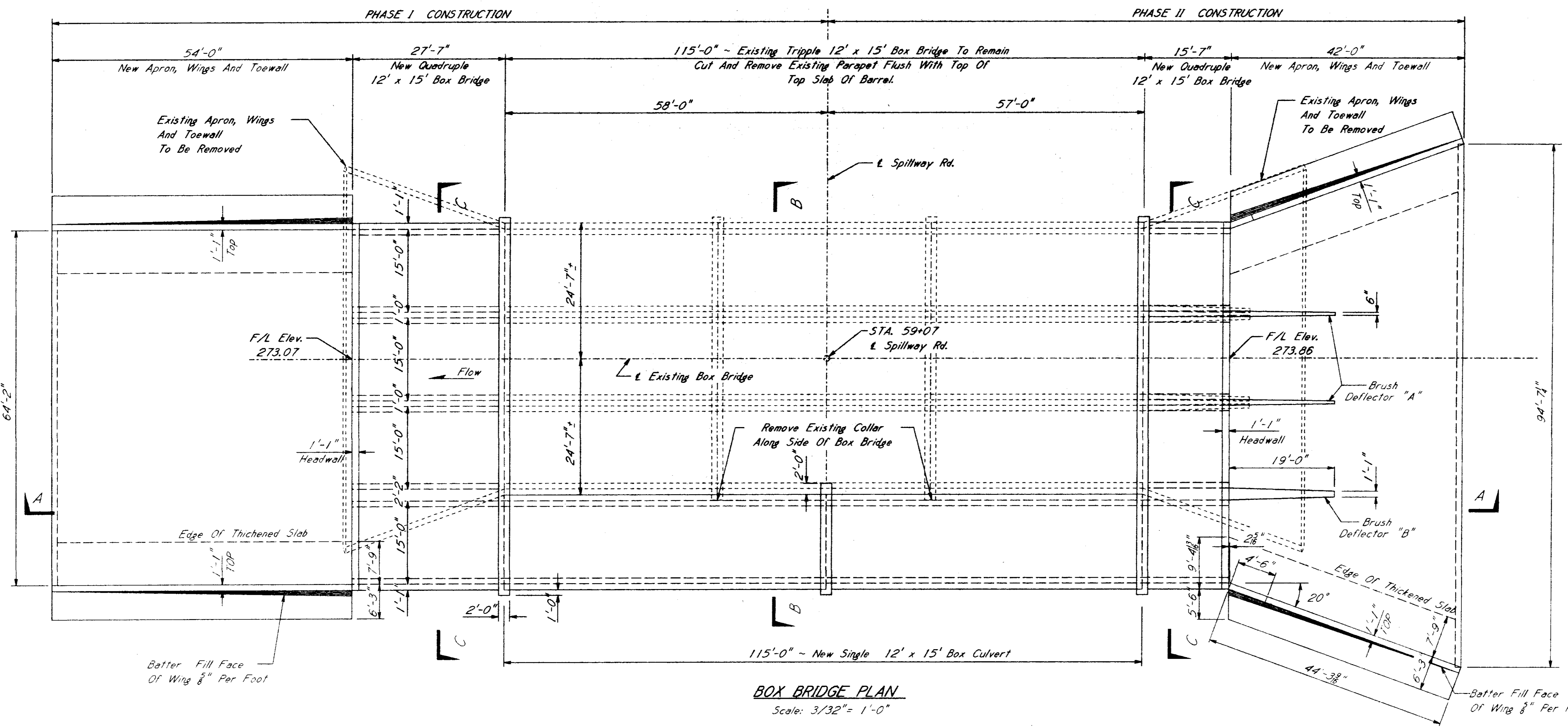


STEEL MAST ARM POLE DETAIL



PEDESTAL POLE DETAIL

CITY OF RIDGELAND		
STANDARD SIGNAL DETAILS		
SIGNAL POLES AND CONTROLLER CABINET		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: JJK	DATE: 8-28-97	SHEET NUMBER
REVIEWED BY: JJK	SCALE: N.T.S.	32



GENERAL NOTES:

Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 1990.

No Change Of Plans Will Be Permitted Except By Written Approval Of The Bridge Engineer. Minor Changes In Detail Of Design Or Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Are Not Justifiable Reasons For Contract Price Adjustments.

Bridge Concrete Shall Be Box Bridge Concrete Class "B". Expansion Joint Material Shall Be Bituminous Fiber Type Unless Otherwise Noted.

Bar Bending Details Shall Be In Accordance With "Manual Of Standard Practice For Detailing Reinforced Concrete Structures" (ACI 315-80).

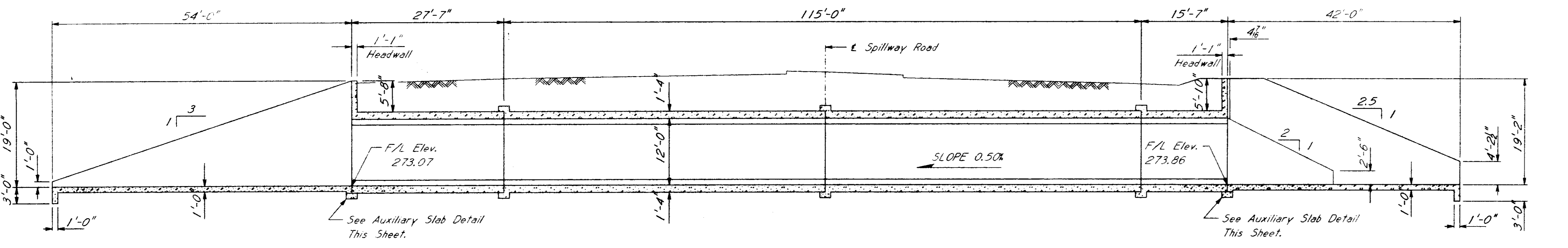
Concrete Surfaces Shall Receive A Class 2 Rubbed Or Sprayed Finish In Accordance With The Specifications. Reinforcing Steel Shall Be ASTM A615 Grade 60, Unless Otherwise Noted.

Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.

All Dimensions And Elevations Shown On Plans Shall Be Verified By The Contractor. If Discrepancies Exist, Adjustments Shall Be Proposed By The Contractor And Concurred In By The Engineer Prior To The Construction Of The Affected Element.

The Contractor Should Be Aware That Additional Minor Items Of Repair Work Not Specifically Listed May Be Necessary To Complete This Project And That Compensation Therefor Will Be Included In The Prices And Payments For Bid Items.

Horizontal Construction Joints May Be Placed Only At The Locations Shown And Concrete Shall Be Allowed To Set A Minimum Of Two Hours Before Continuing Pour.



NOTE: See Sheet No. A9 For Bar Bending Details.

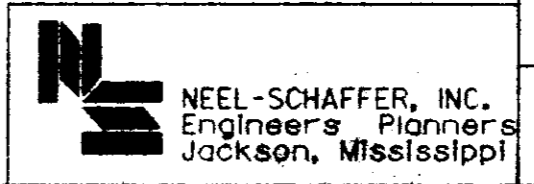
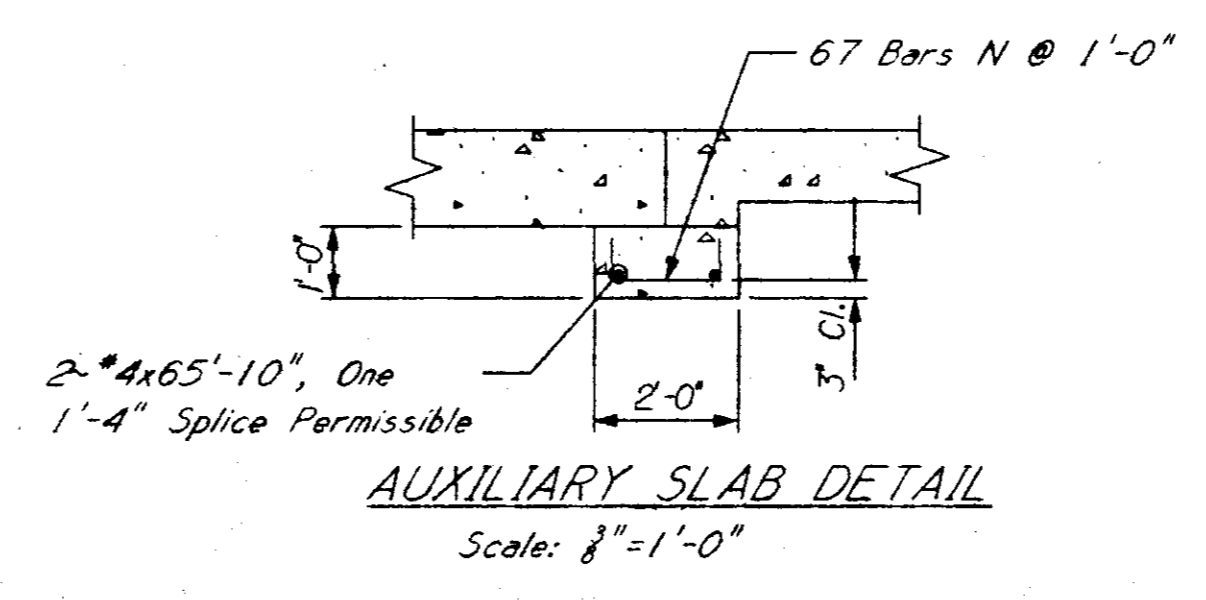
DESIGN DATA:

Specifications A.A.S.H.T.O. 1992 & Int. Thru 1995

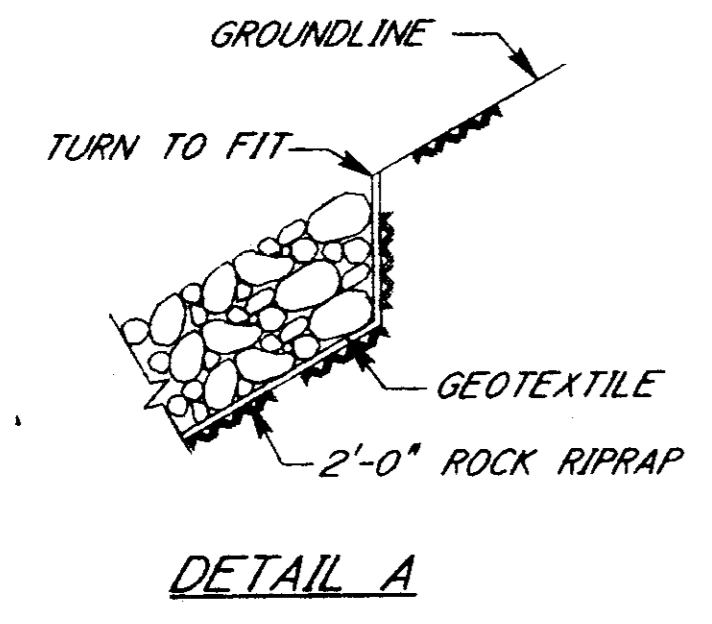
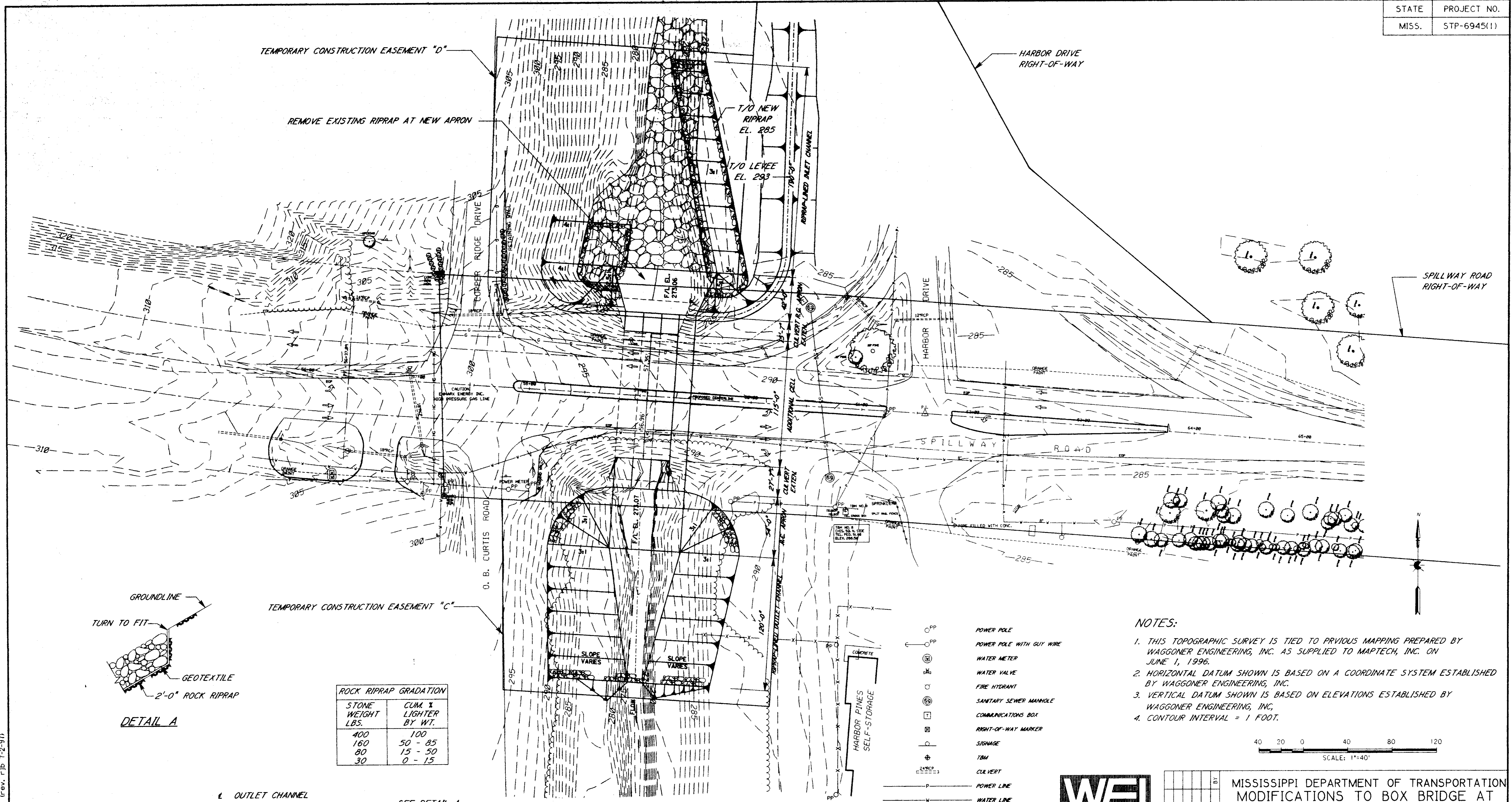
Loading HS20-44

Concrete Class "B" (3000 PSI)

Class "B" Box Bridge Concrete C.Y.	Reinforcement Lb.	Loose Riprap Tons	Geotextile S.Y.
1400	150,000	2,600	4,000

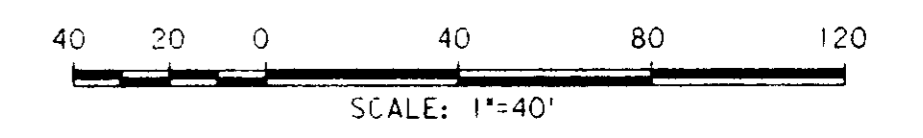


BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		MODIFICATIONS TO BOX BRIDGE AT	
DATE		STA. 59+07.00	
DESIGNED		SPILLWAY ROAD OVER	
RJB		BRASHEAR CREEK	
CHECKED		PROJECT STP-6945(1)	
ISSUED		49-6945-00-001-10	
DATE		MADISON COUNTY-RIDGELAND	
TRACED		WORKING NUMBER	
CAD		AI OF 9	
DATE		SHEET NUMBER	
		33	

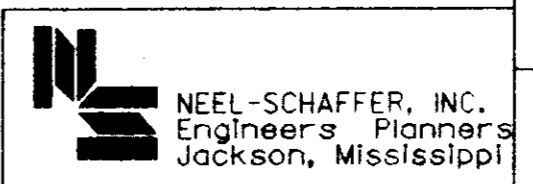


ROCK RIPRAP GRADATION	
STONE WEIGHT LBS.	CUM. % LIGHTER BY WT.
400	100
160	50 - 85
80	15 - 50
30	0 - 15

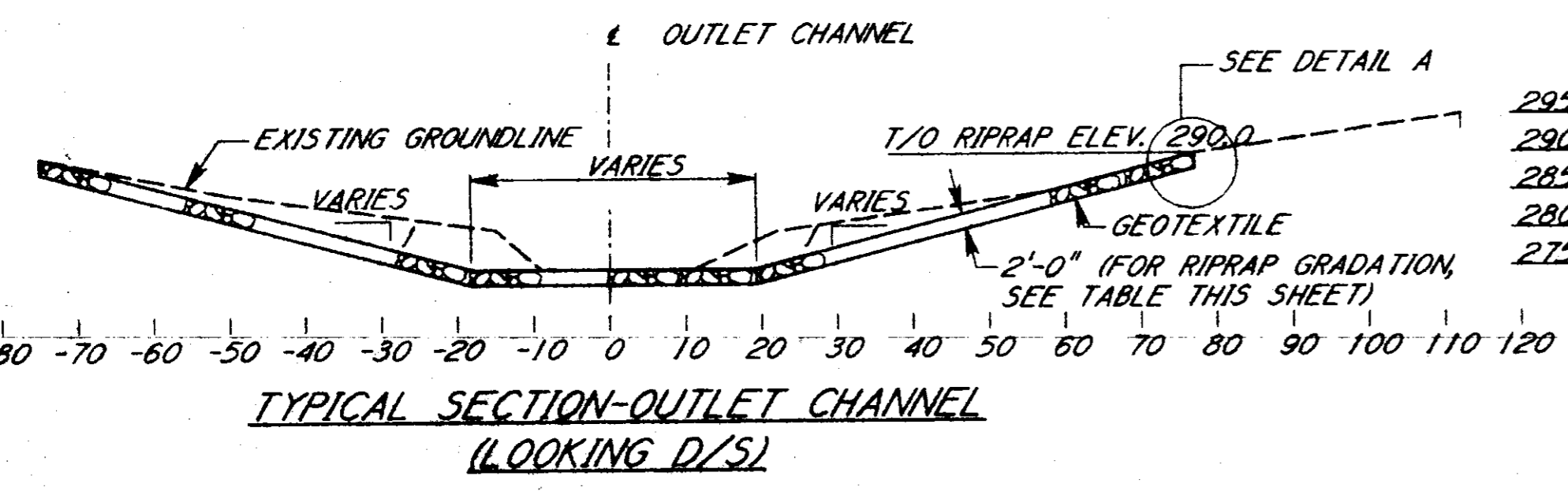
- NOTES:**
1. THIS TOPOGRAPHIC SURVEY IS TIED TO PREVIOUS MAPPING PREPARED BY WAGGONER ENGINEERING, INC. AS SUPPLIED TO MAPTECH, INC. ON JUNE 1, 1996.
 2. HORIZONTAL DATUM SHOWN IS BASED ON A COORDINATE SYSTEM ESTABLISHED BY WAGGONER ENGINEERING, INC.
 3. VERTICAL DATUM SHOWN IS BASED ON ELEVATIONS ESTABLISHED BY WAGGONER ENGINEERING, INC.
 4. CONTOUR INTERVAL = 1 FOOT.



- PP POWER POLE
- PP POWER POLE WITH GUY WIRE
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ FIRE HYDRANT
- ⊕ SANITARY SEWER MANHOLE
- ⊕ COMMUNICATIONS BOX
- ⊕ RIGHT-OF-WAY MARKER
- ⊕ SIGNAGE
- ⊕ TBM
- ⊕ CL. VERT
- P — POWER LINE
- W — WATER LINE
- SS — SANITARY SEWER LINE
- G — GAS LINE
- HG — HIGH PRESSURE GAS LINE
- X — X — FENCE LINE
- RIPRAP

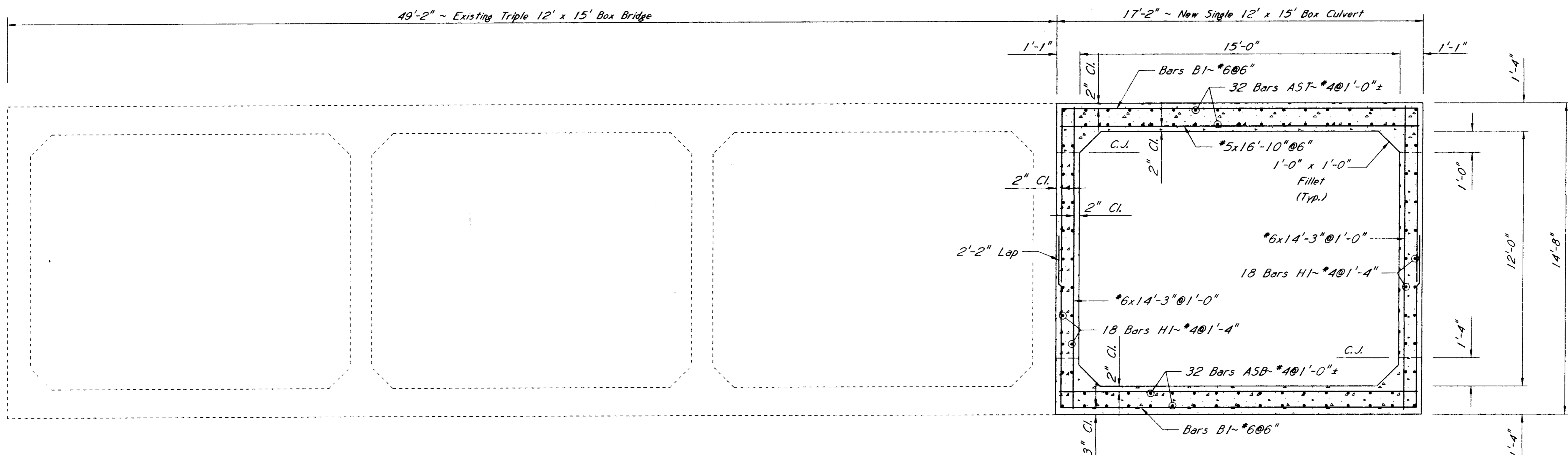


MISSISSIPPI DEPARTMENT OF TRANSPORTATION MODIFICATIONS TO BOX BRIDGE AT STA. 59+07.00	
SITE PLAN	
PROJECT STP-6945(1) 49-6945-00-001-10	
MADISON COUNTY-RIDGELAND	
DESIGNED: WKM	DATE: _____
DETAILED: JDM	DATE: _____
TRACED: CAD	DATE: _____
CHECKED: _____	DATE: _____
ISSUED: _____	DATE: _____
WORKING NUMBER A2 OF 9	SHEET NUMBER 34

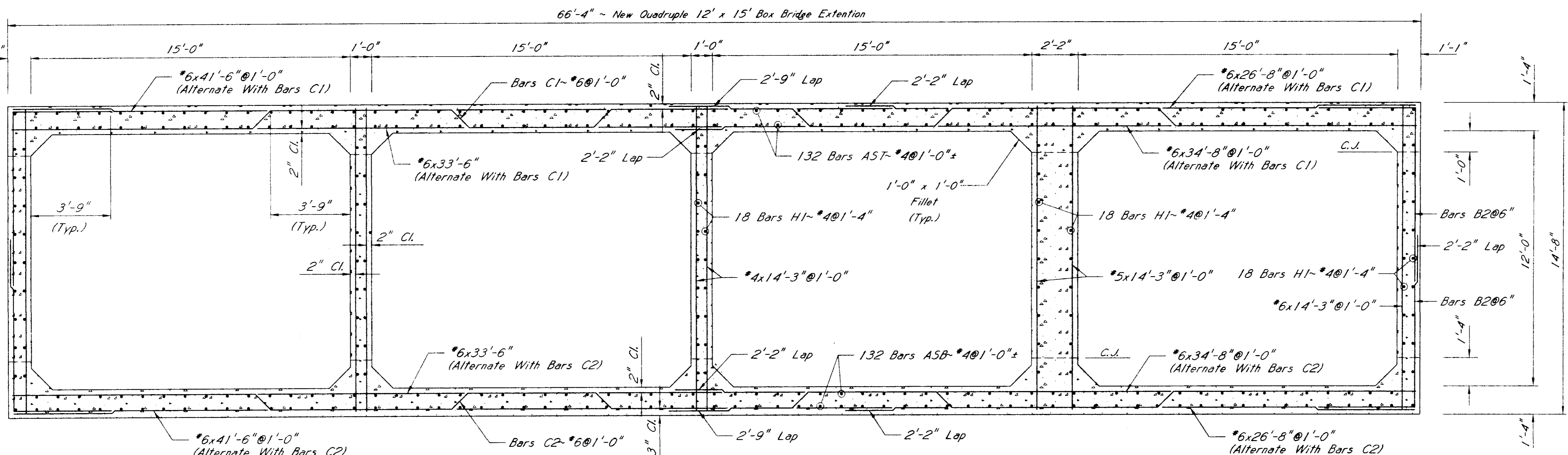


SITE PLAN

CA2763\2763-02.dgn 11-22-96 Jim (rev. rjb 7-2-97)



SECTION B-B
Scale: 3/8" = 1'-0"



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

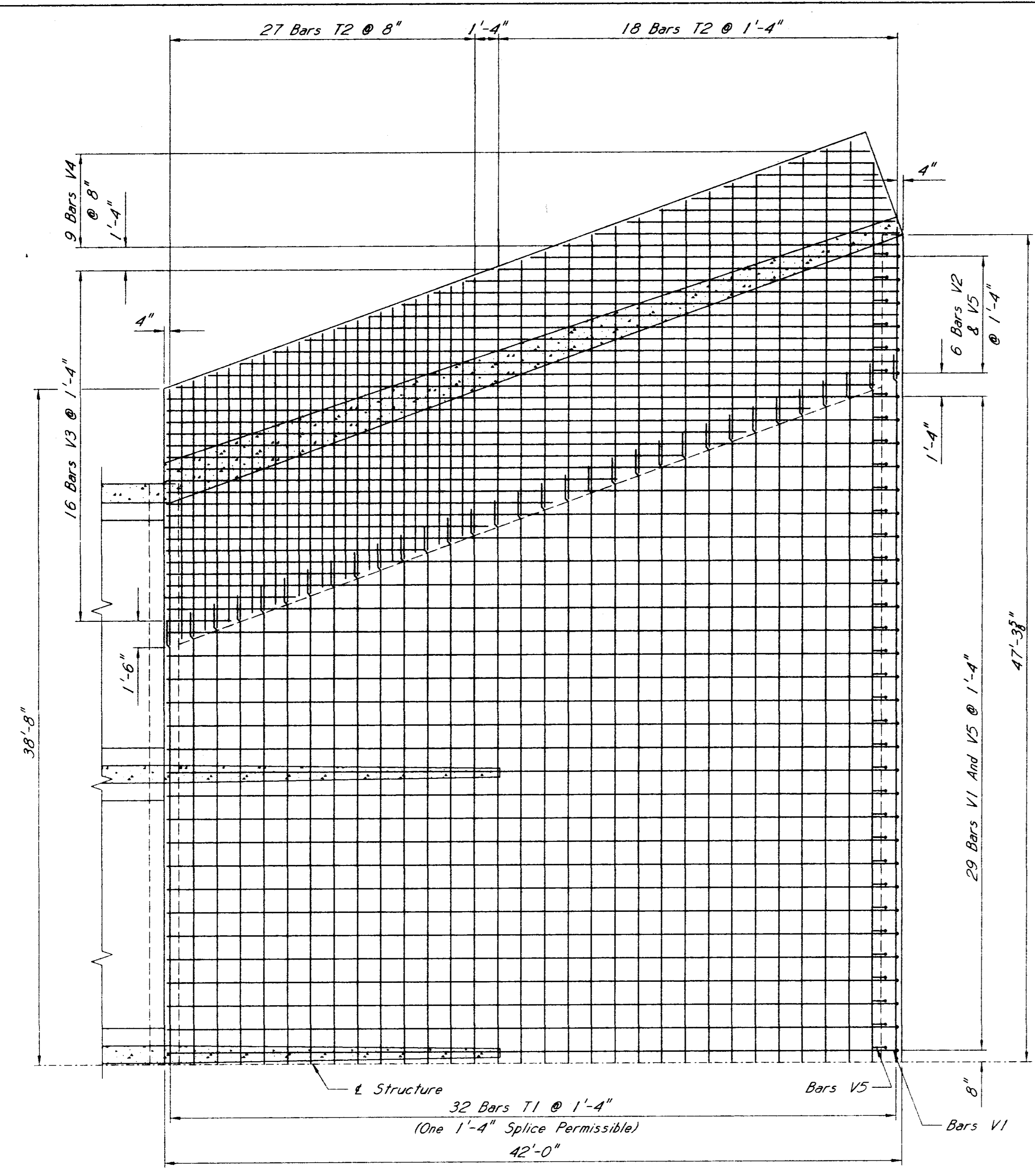
NOTES: See Sheet No. A1 For Location Of Section B-B And C-C.
See Sheet No. A9 For Bar Bending Details.

WEI
WAGGONER
ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

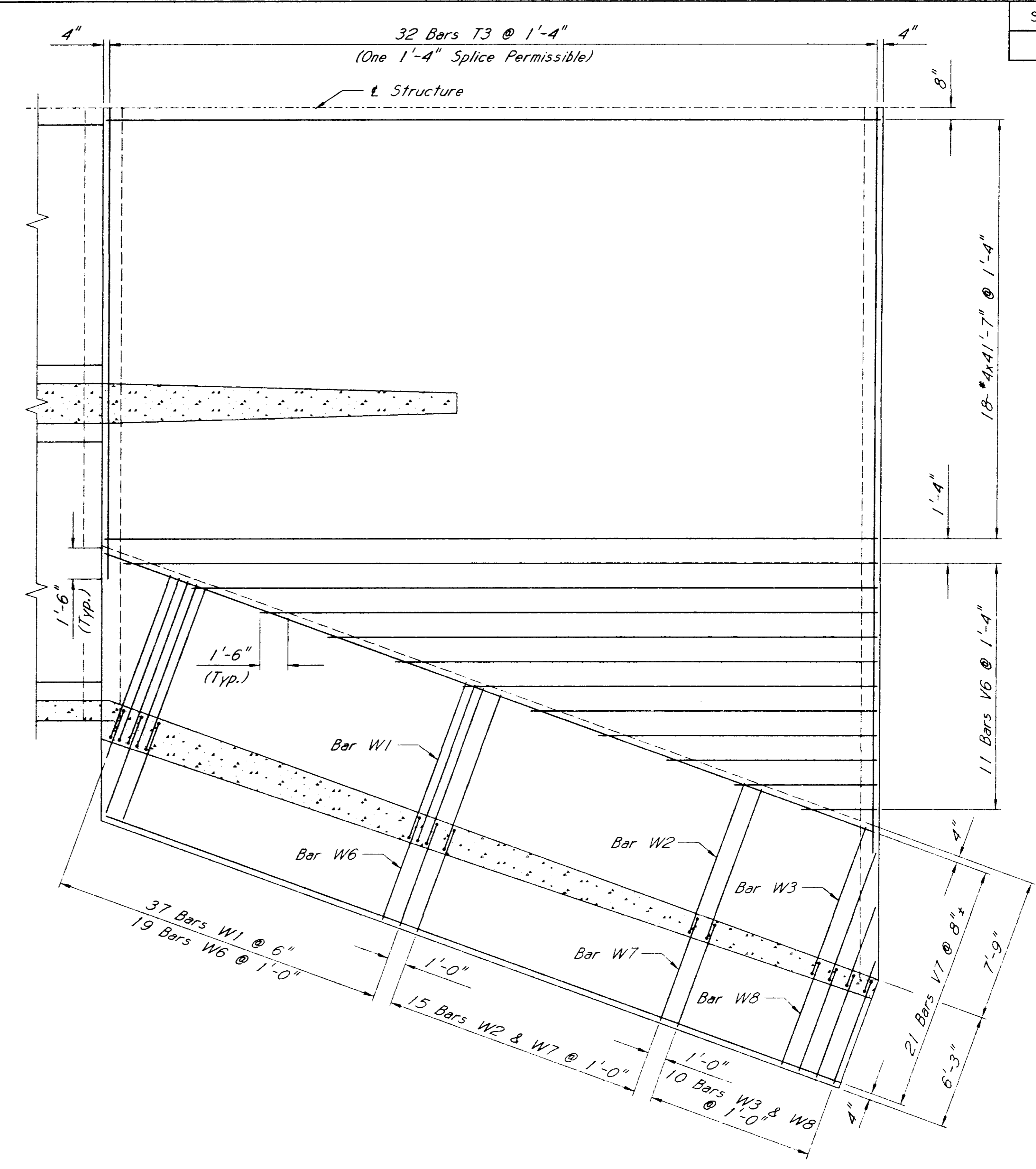
NS
NEEL-SCHAFFER, INC.
Engineers, Planners
Jackson, Mississippi

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION MODIFICATIONS TO BOX BRIDGE AT STA. 59+07.00			
REVISIONS		TYPICAL BOX SECTIONS			
DATE		PROJECT STP-6945(1) 49-6945-00-001-10			
		MADISON COUNTY-RIDGELAND			
		WORKING NUMBER A3 OF 9			
		SHEET NUMBER 35			
DESIGNED	RJB	DATE		TRACED	CAD
CHECKED		ISSUED		DATE	

6x27632763-03.dgn rev. rjb 5-13-97



HALF PLAN INLET BOTTOM SLAB
 Showing Reinforcement In Top Of Slab.
 Scale: 1/4" = 1'-0"

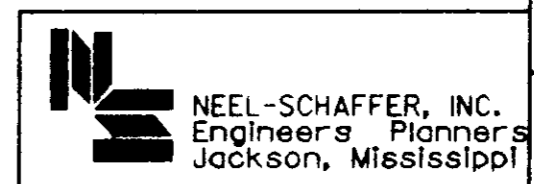


HALF PLAN INLET BOTTOM SLAB
 Showing Reinforcement In Bottom Of Slab.
 Scale: 1/4" = 1'-0"

NOTES: See Sheet No. A6 For Bar Bending Details.
 Reinforcement And Structure Dimensions
 Are Symmetric About Structure.



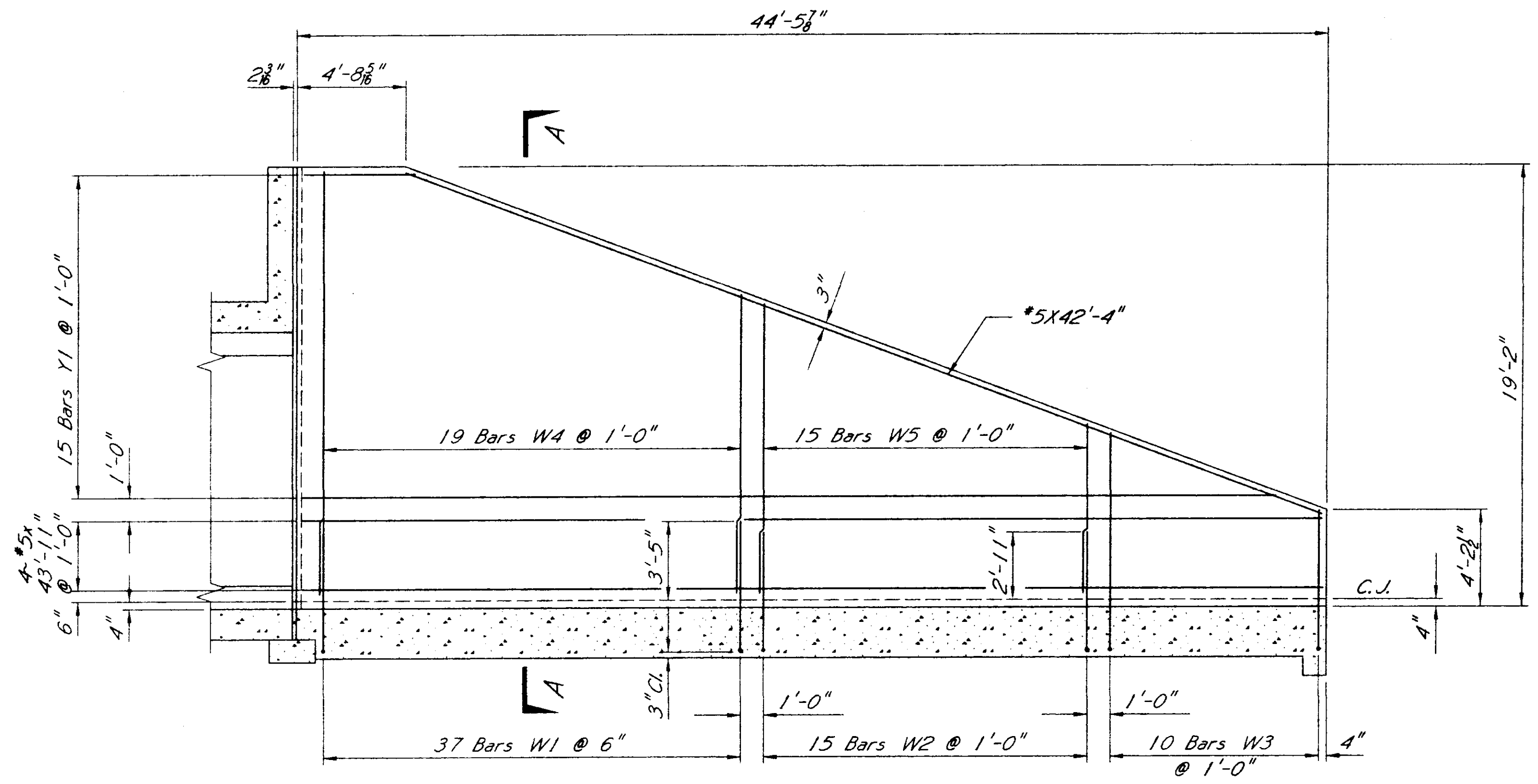
WAGGONER
 ENGINEERING, INC.
 ENGINEERS, PLANNERS, SCIENTISTS



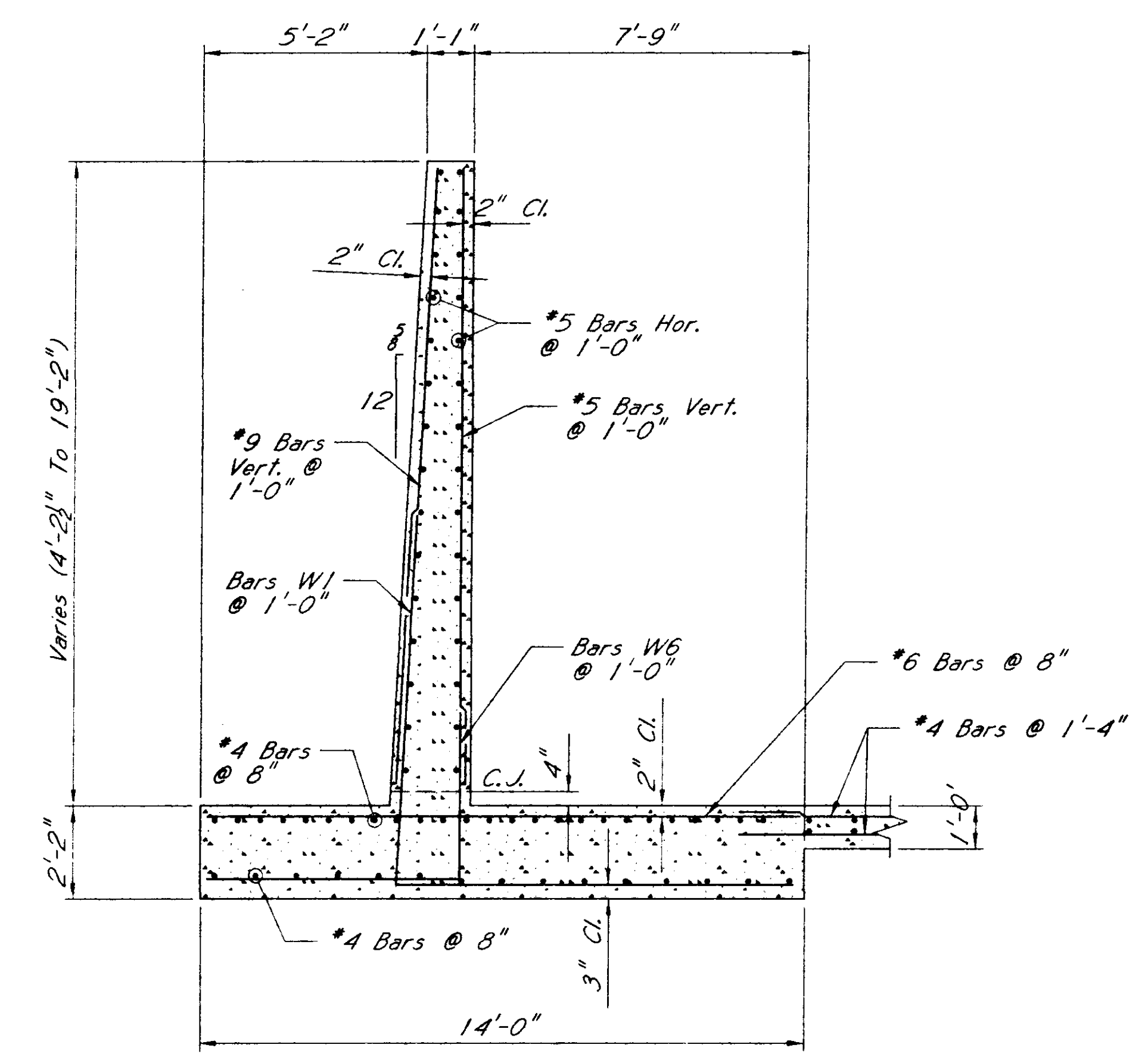
NEEL-SCHAFFER, INC.
 Engineers, Planners
 Jackson, Mississippi

DESIGNED	RJB	DATE	
Detailed	RJB	Traced	CAD
Checked		Issued	
		Date	

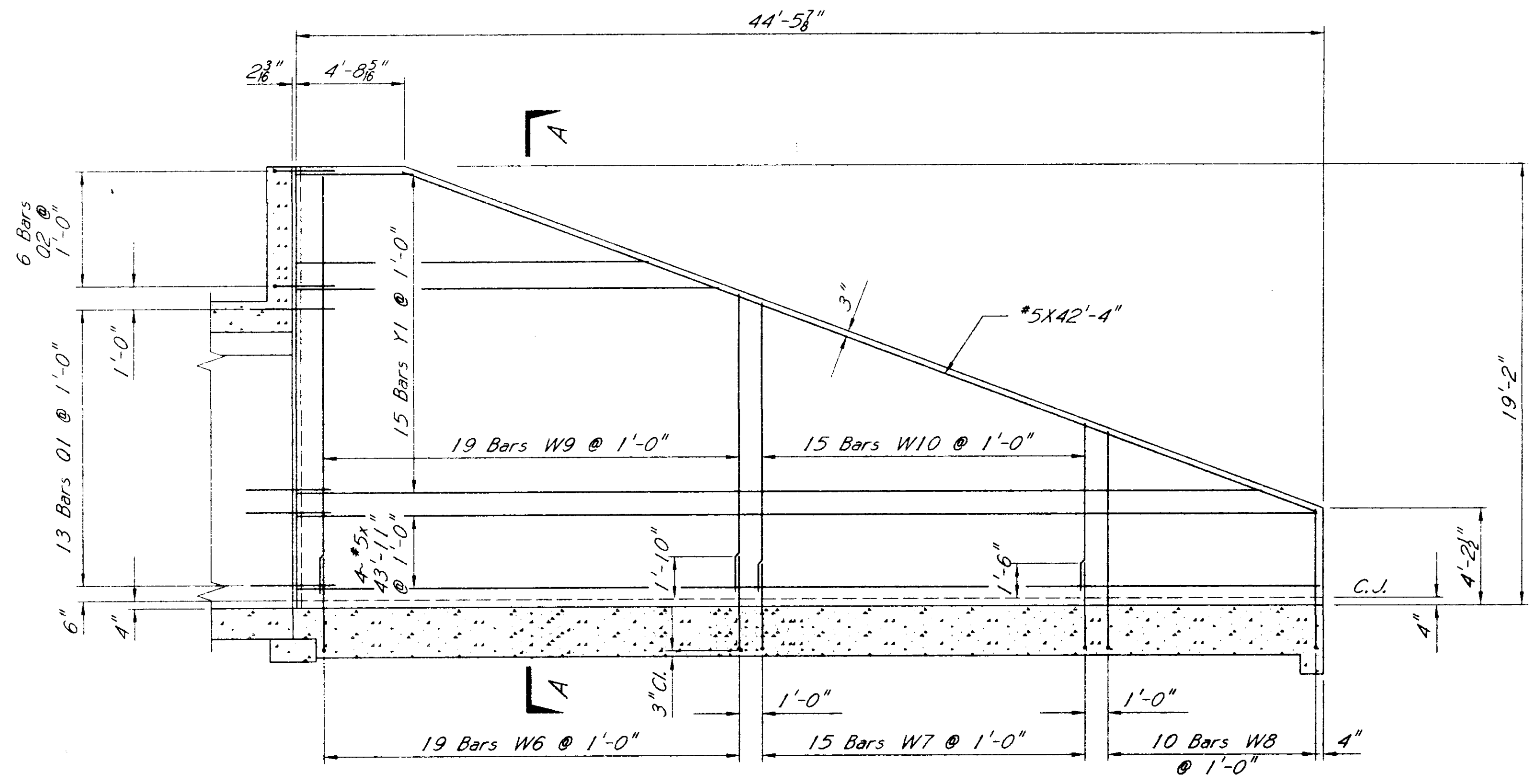
MISSISSIPPI DEPARTMENT OF TRANSPORTATION BOX BRIDGE MODIFICATIONS AT STA. 59+07.00 PLAN OF INLET BOTTOM SLAB	
PROJECT	STP-6945(1) 49-6945-00-001-10
MADISON COUNTY-RIDGELAND	WORKING NUMBER A4 of 9
	SHEET NUMBER 36



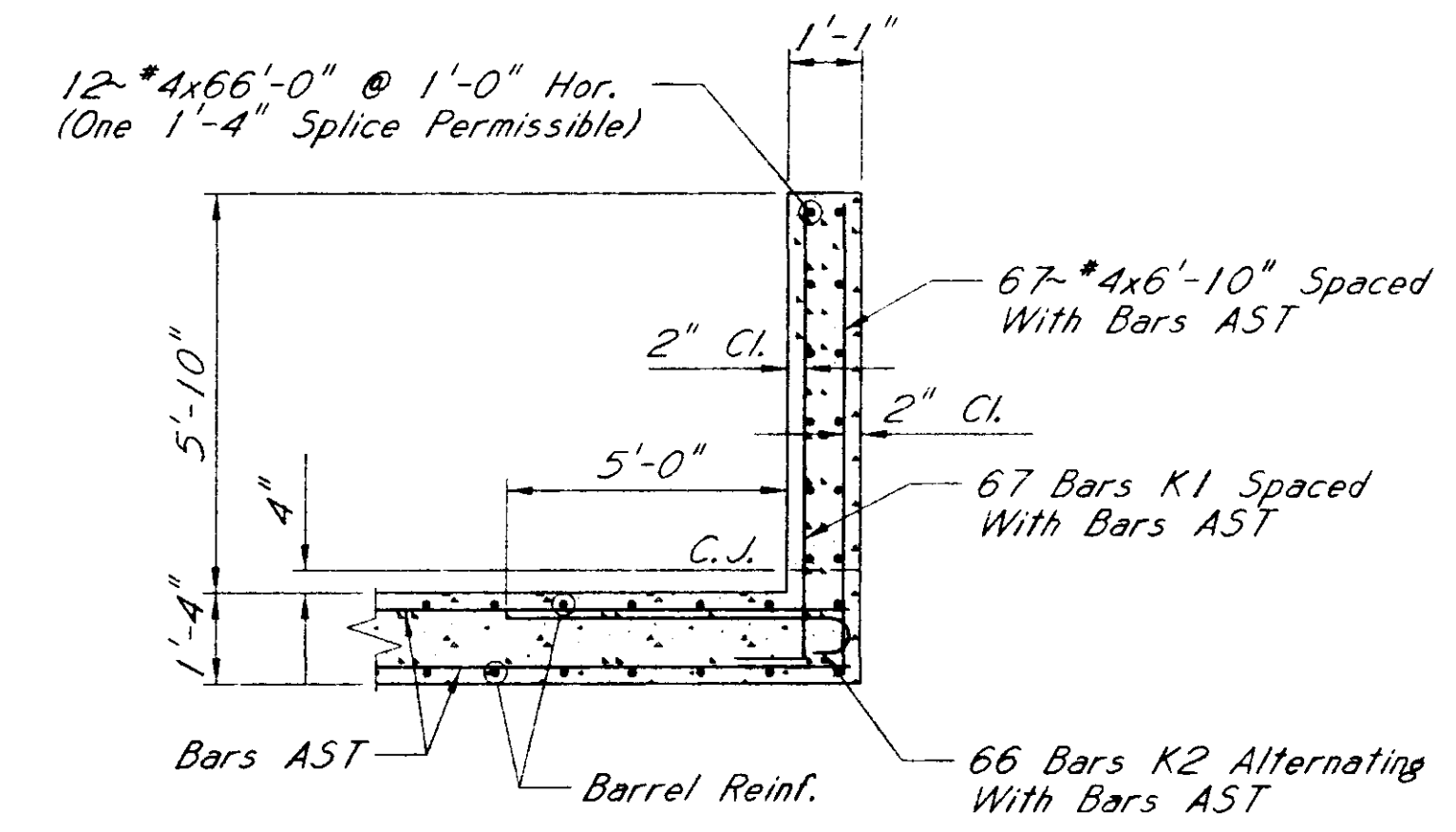
ELEVATION OF INLET WINGWALL
Showing Reinforcement In Fill Face.
Scale: 1/4" = 1'-0"



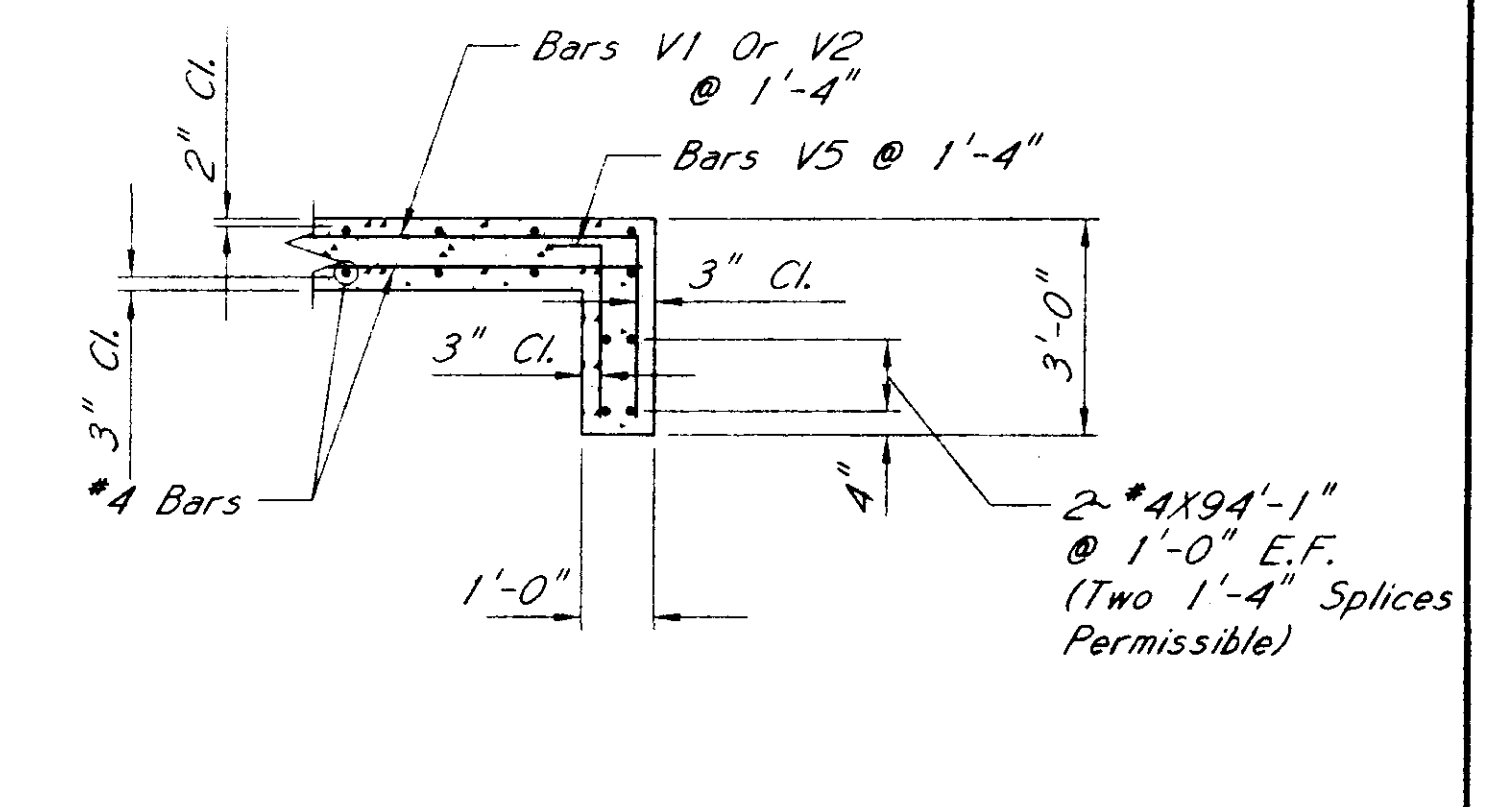
SECTION A-A
Scale: 3/8" = 1'-0"



ELEVATION OF INLET WINGWALL
Showing Reinforcement In Stream Face.
Scale: 1/4" = 1'-0"



TYPICAL SECTION OF HEADWALL
Scale: 3/8" = 1'-0"

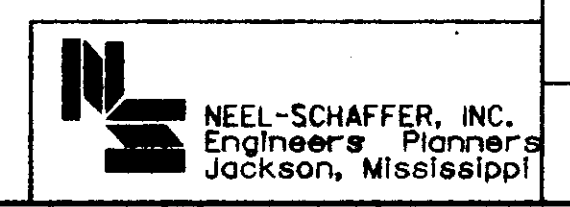


TYPICAL SECTION OF TOEWALL
Scale: 3/8" = 1'-0"

NOTES: See Sheet No. A6 For Bar Bending Details.



WAGGONER
ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

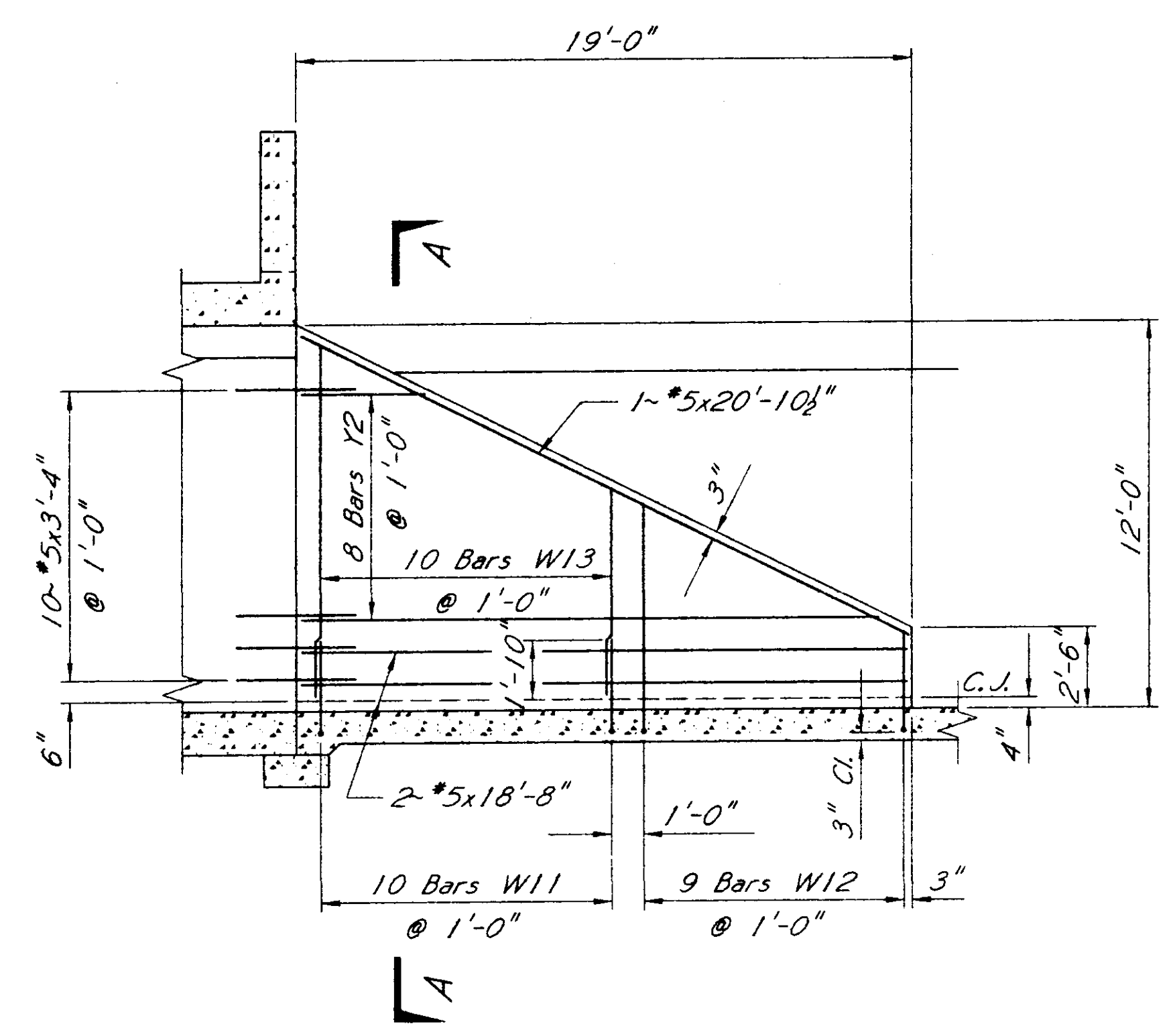


NEEL-SCHAFFER, INC.
Engineers, Planners
Jackson, Mississippi

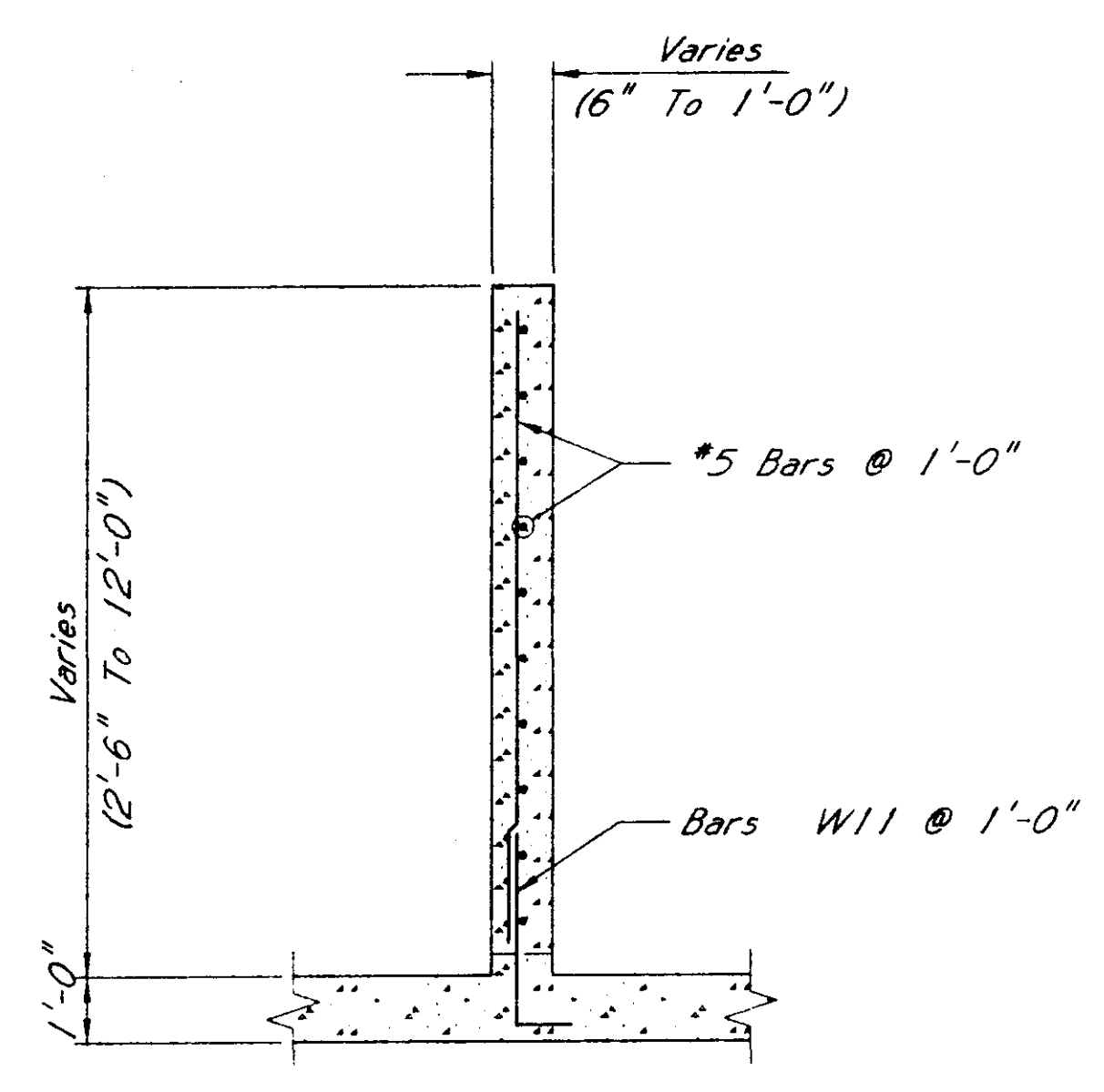
DESIGNED	RJB	DATE	
Detailed	RJB	Traced	CAD
Checked		Issued	DATE

BY: MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BOX BRIDGE MODIFICATIONS AT
STA. 59+07.00
INLET ELEVATION, SECTIONS
AND DETAILS
PROJECT STP-6945(1)
49-6945-00-001-10
MADISON COUNTY-RIDGELAND

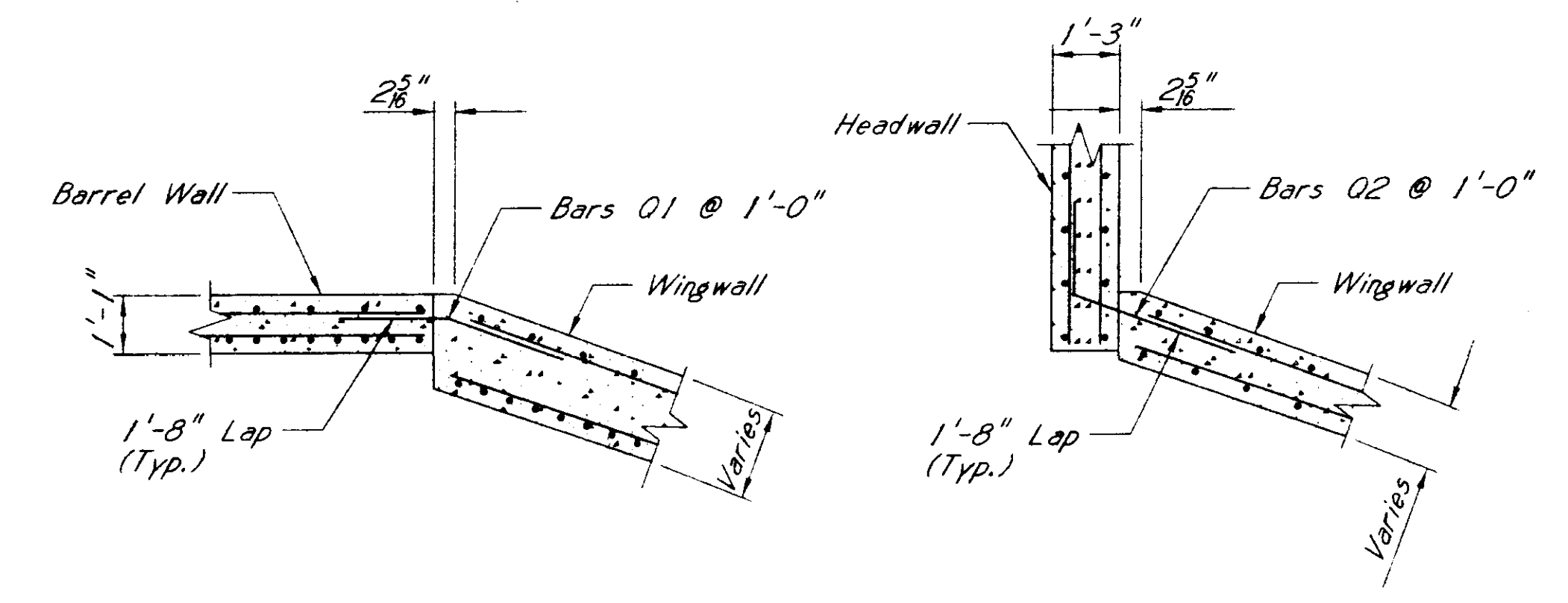
WORKING NUMBER
A5 of 9
SHEET NUMBER
37



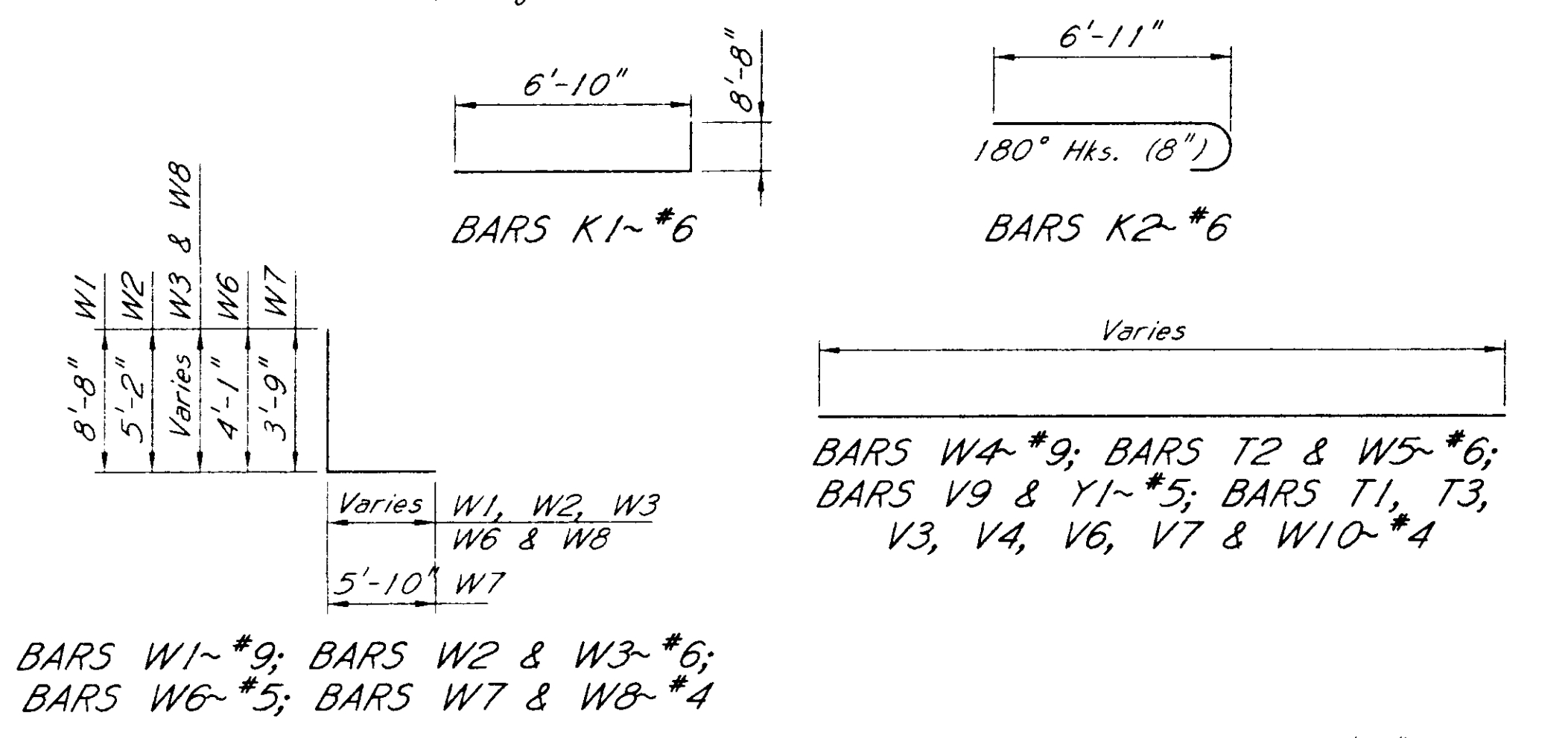
ELEVATION OF BRUSH DEFLECTOR "A"
Scale: 1/4" = 1'-0"



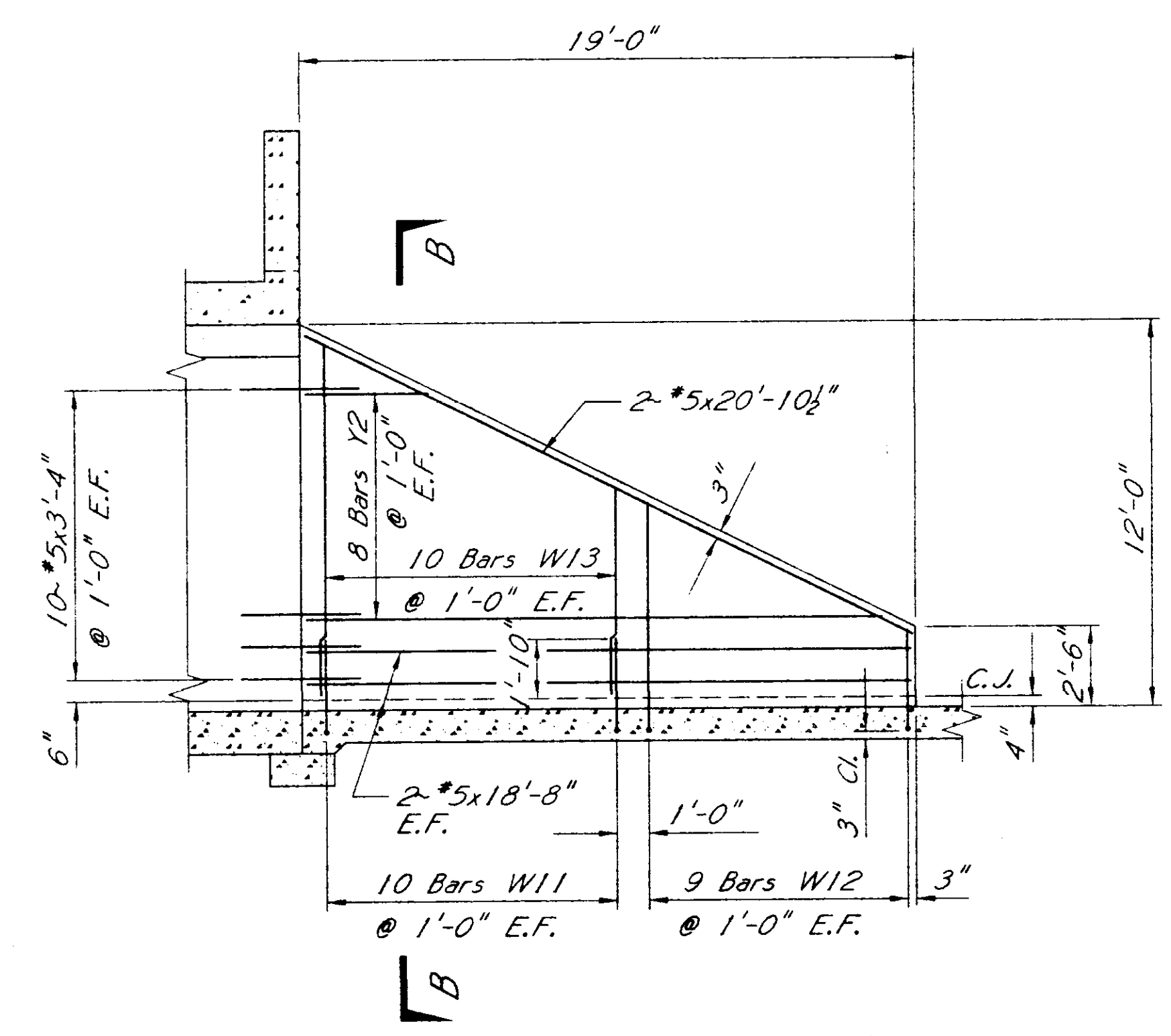
SECTION A-A
Showing Reinforcement In Brush Deflector "A"
Scale: 3/8" = 1'-0"



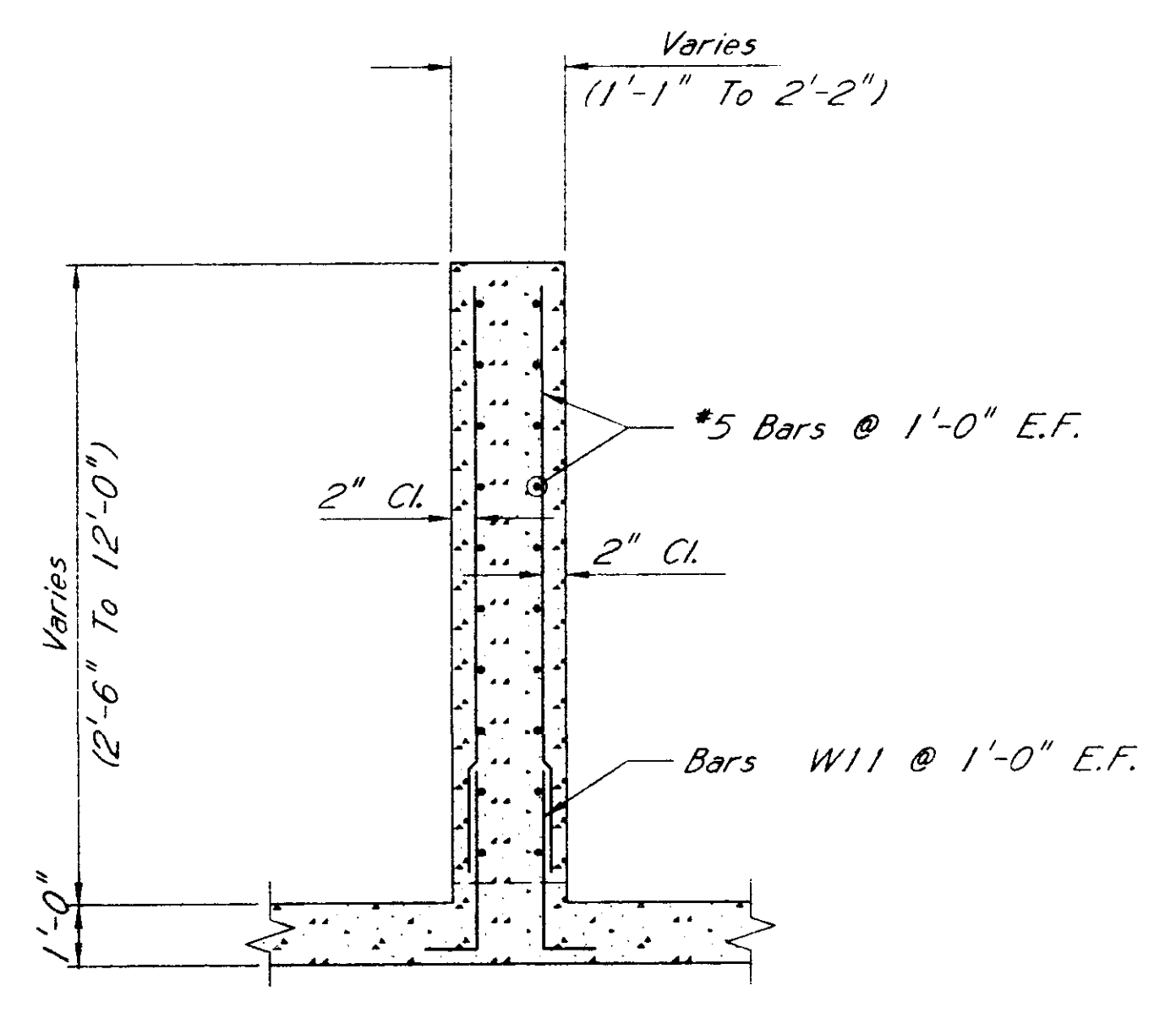
TYPICAL WINGWALL CONSTRUCTION JOINT DETAIL
Scale: 3/8" = 1'-0"



BAR BENDING DETAILS
Dimensions Are Out To Out



ELEVATION OF BRUSH DEFLECTOR "B"
Scale: 1/4" = 1'-0"



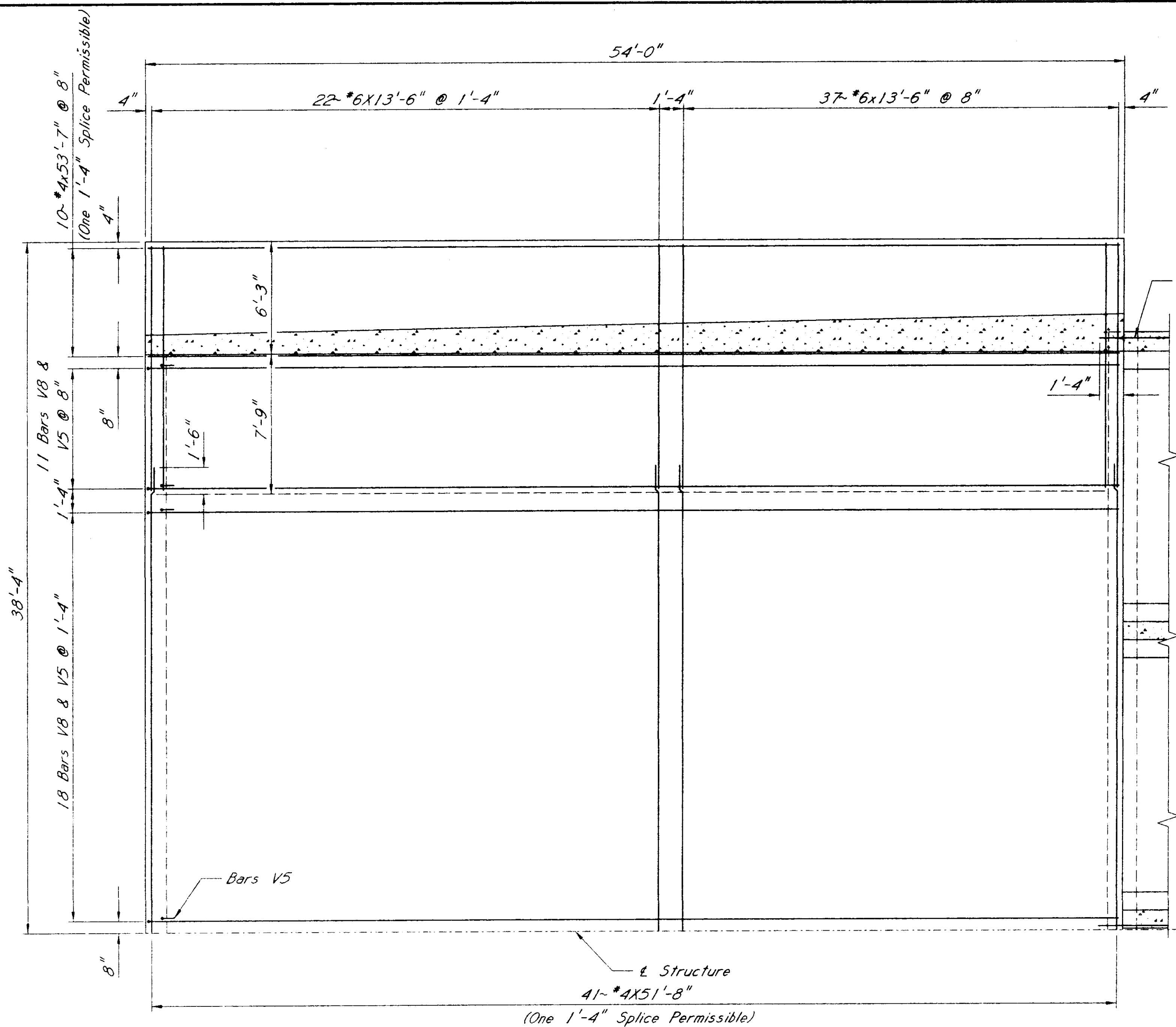
SECTION B-B
Showing Reinforcement In Brush Deflector "B"
Scale: 3/8" = 1'-0"

WAGGONER ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

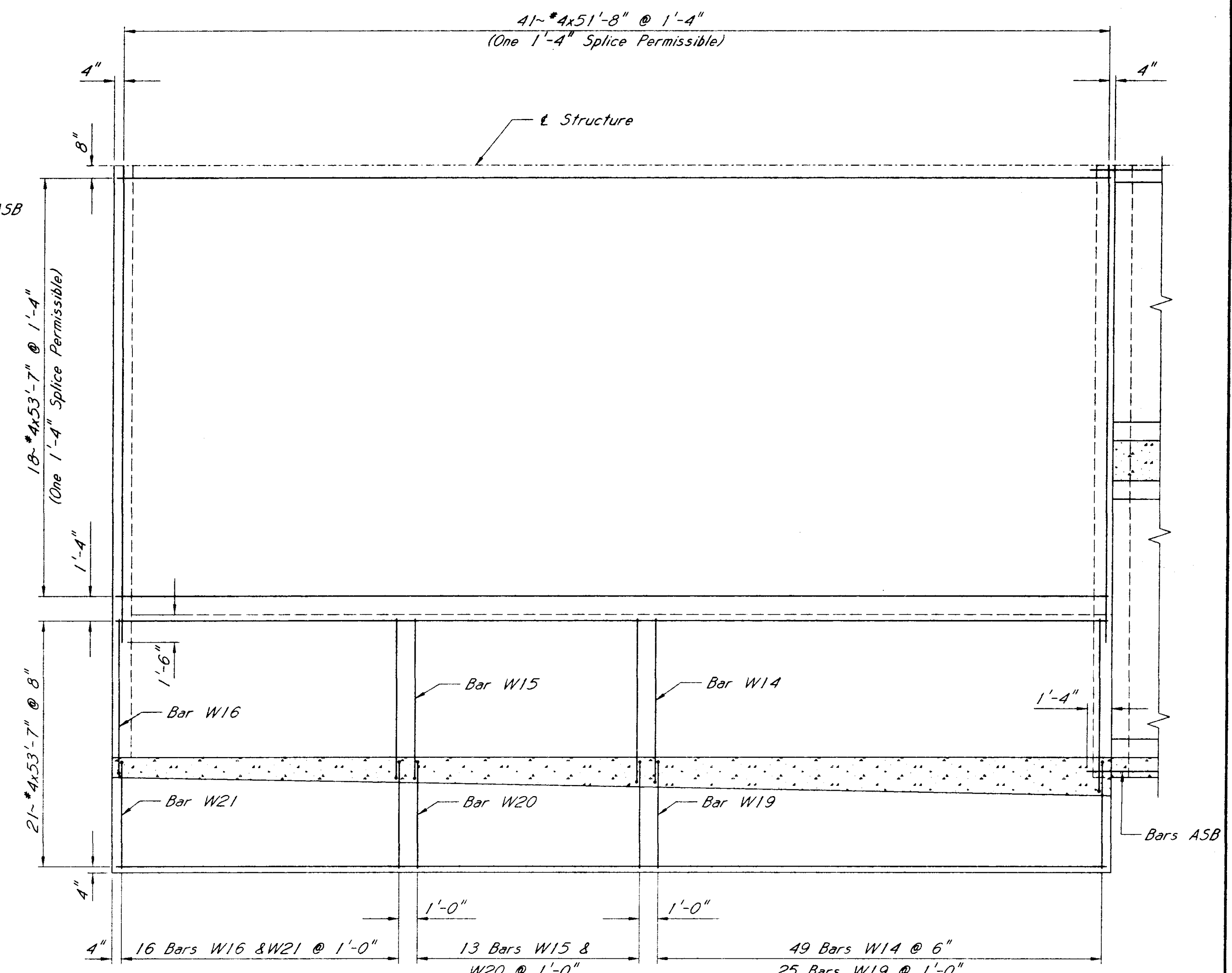
NEEL-SCHAFFER, INC.
Engineers & Planners
Jackson, Mississippi

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		BOX BRIDGE MODIFICATIONS AT	
DATE		STA. 59+07.00	
DESIGNED		BRUSH DEFLECTOR SECTIONS	
CHECKED		AND DETAILS	
ISSUED		PROJECT STP-6945(1)	
DATE		49-6945-00-001-10	
TRACED		MADISON COUNTY-RIDGELAND	
SHEET NUMBER		WORKING NUMBER	
38		A6 OF 9	

01/27/03 2763-05.dgn rev. rjb 5-13-97

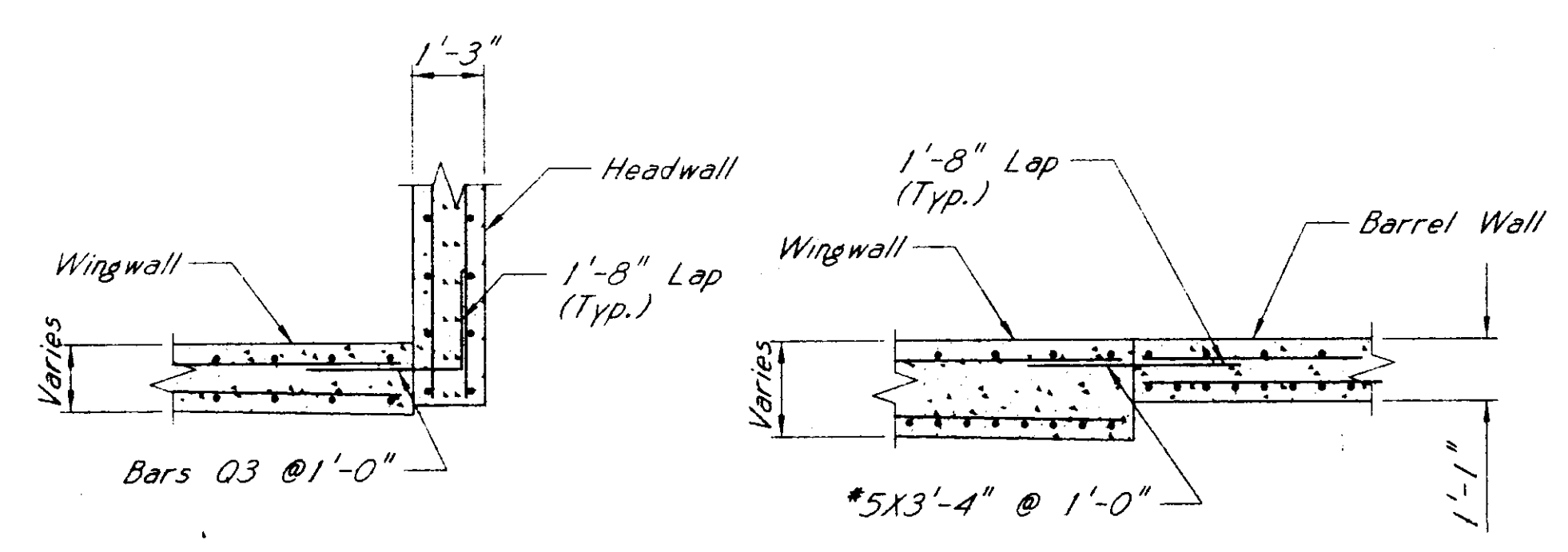


HALF PLAN OUTLET BOTTOM SLAB
Showing Reinforcement In Top Of Slab.
Scale: 1/4" = 1'-0"

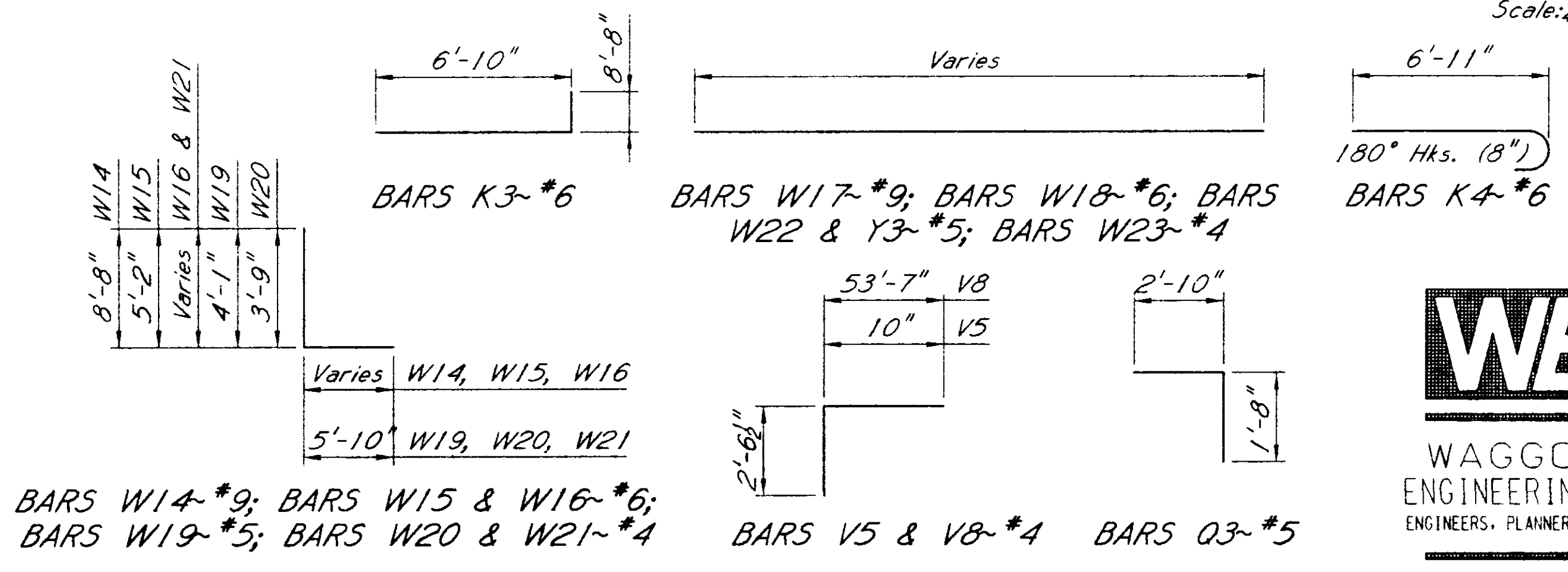


HALF PLAN OUTLET BOTTOM SLAB
Showing Reinforcement In Bottom Of Slab.
Scale: 1/4" = 1'-0"

NOTE: Reinforcement And Structure Dimensions Are Symmetric About ϵ Structure.



TYPICAL WINGWALL CONSTRUCTION JOINT DETAIL
Scale: 3/8" = 1'-0"



BAR BENDING DETAILS
Dimensions Are Out To Out

CA2763\2763-07.dgn rev. rjb 5-13-97

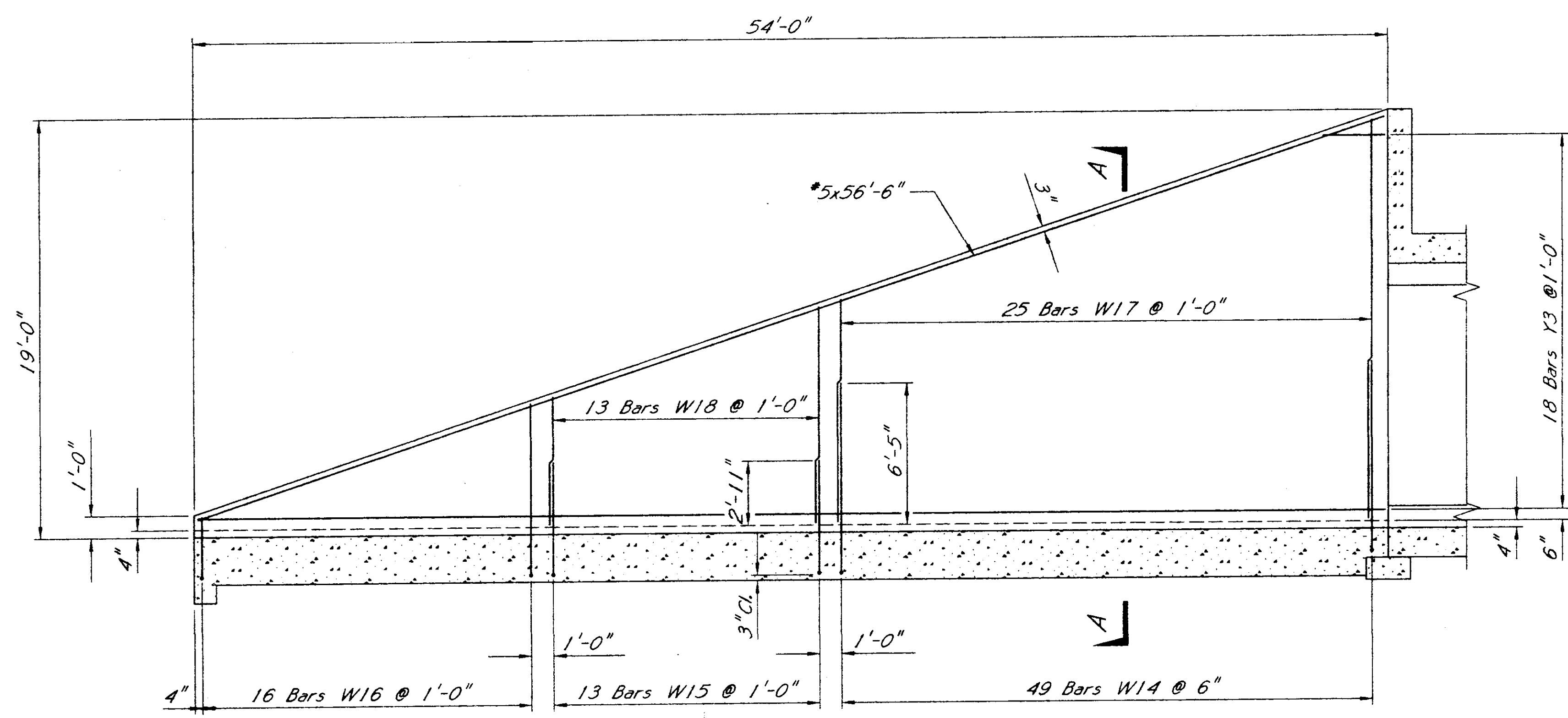
WEI
WAGGONER
ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

NS
NEEL-SCHAFFER, INC.
Engineers, Planners
Jackson, Mississippi

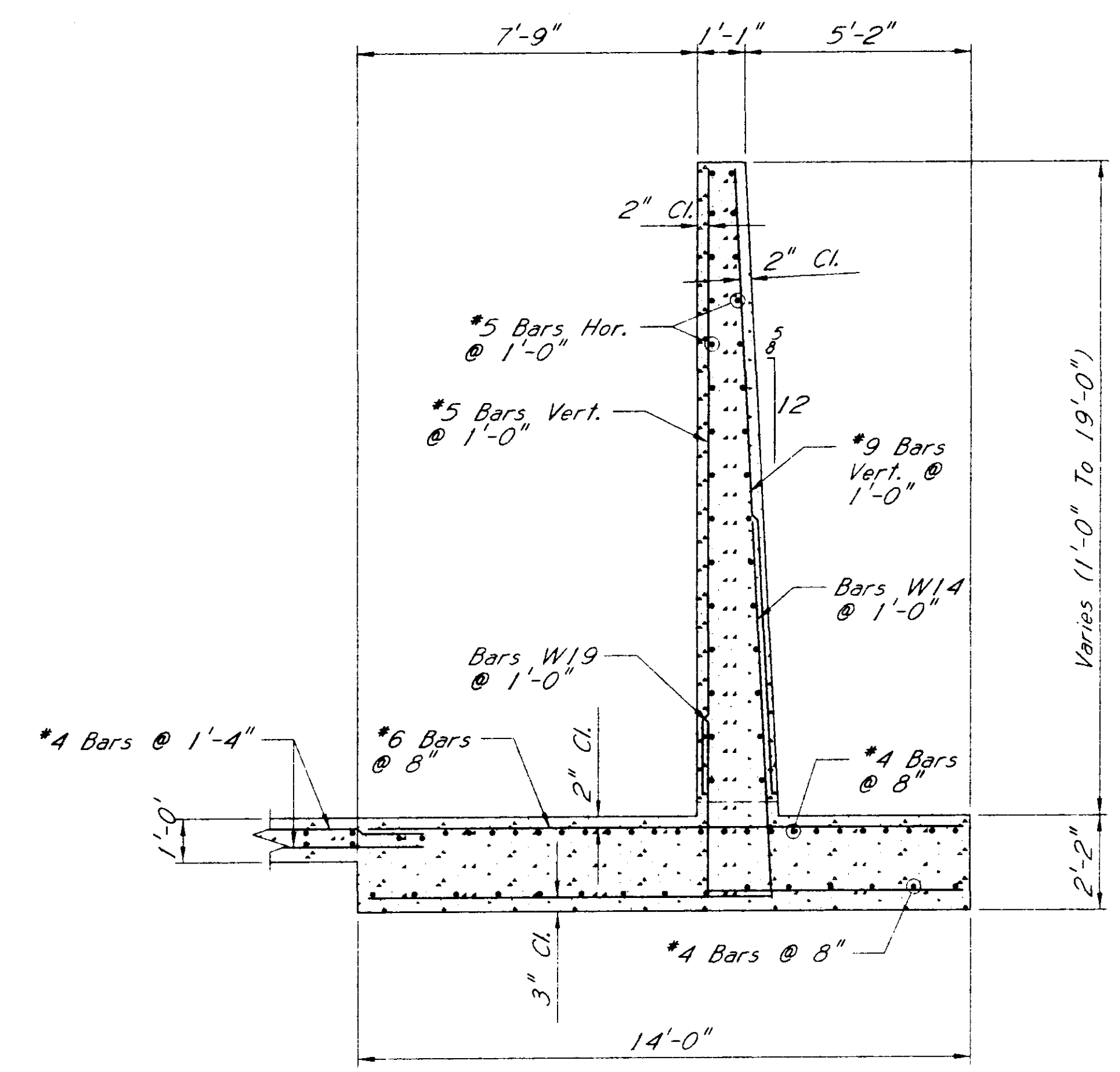
DESIGNED	RJB	DATE	
CHECKED		ISSUED	
DATE		DATE	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BOX BRIDGE MODIFICATIONS AT
STA. 59+07.00
PLAN OF OUTLET
BOTTOM SLAB
PROJECT STP-6945(1)
49-6945-00-001-10
MADISON COUNTY-RIDGELAND

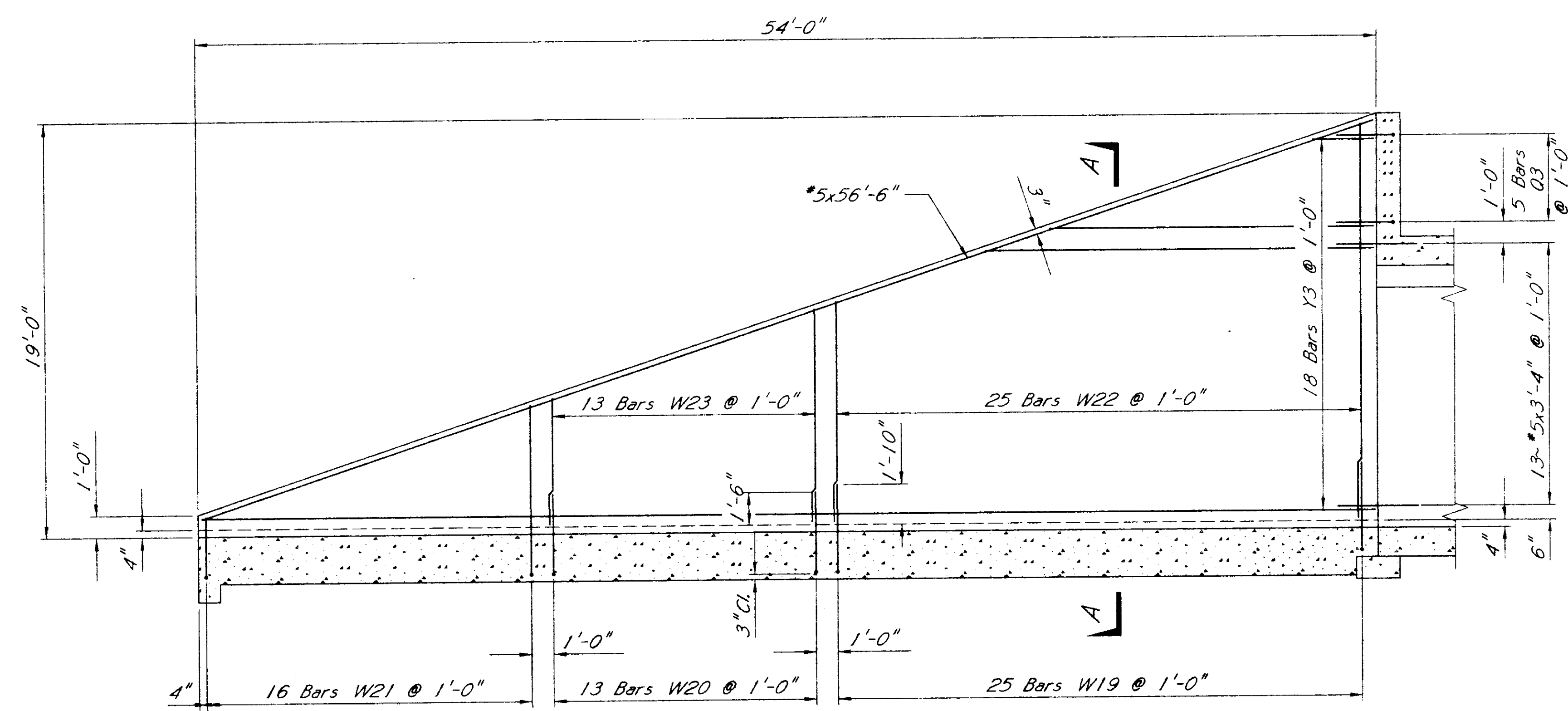
WORKING NUMBER
A7 Of 9
SHEET NUMBER
39



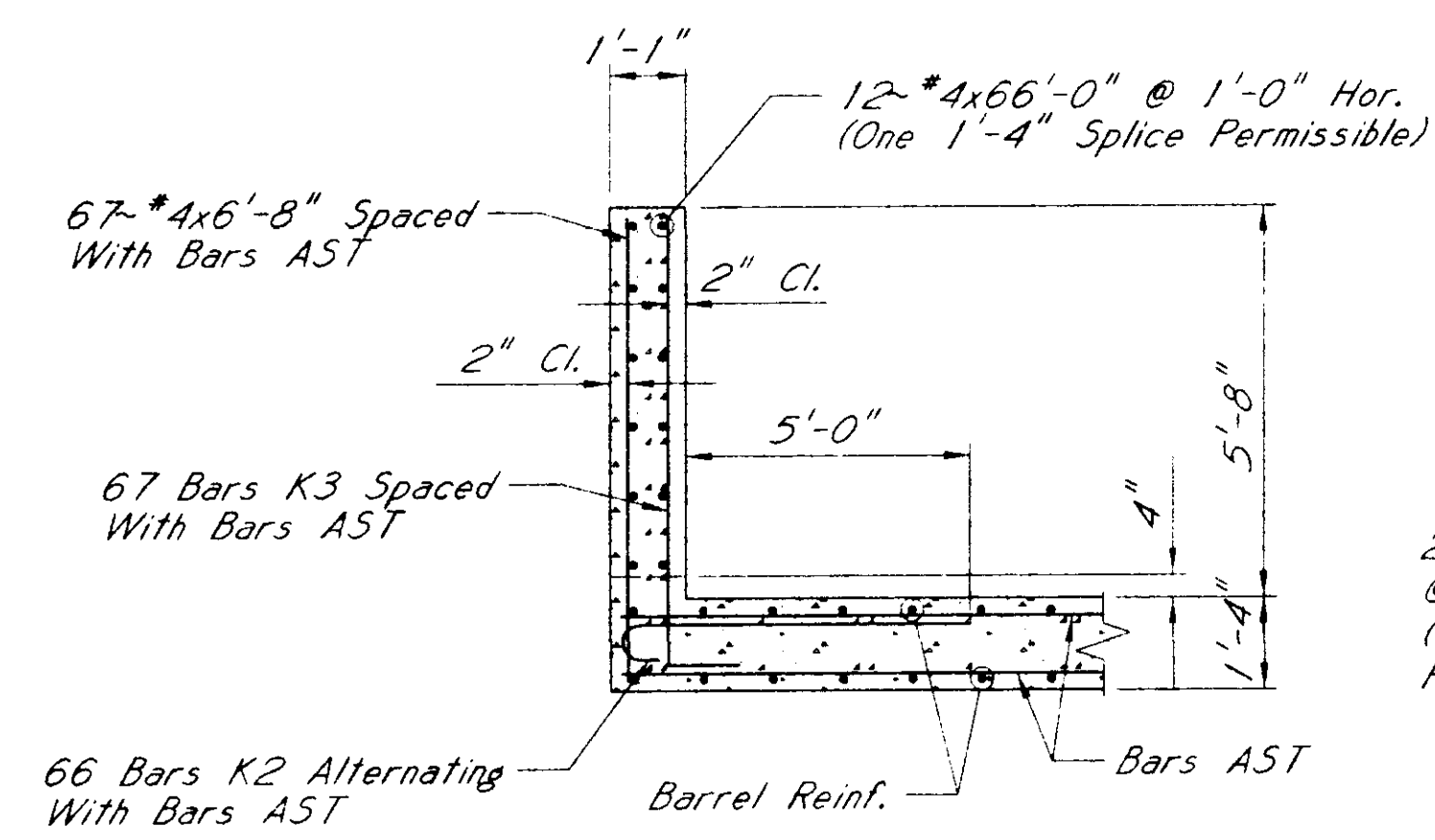
ELEVATION OF OUTLET WINGWALL
 Showing Reinforcement In Fill Face.
 Scale: 1/4" = 1'-0"



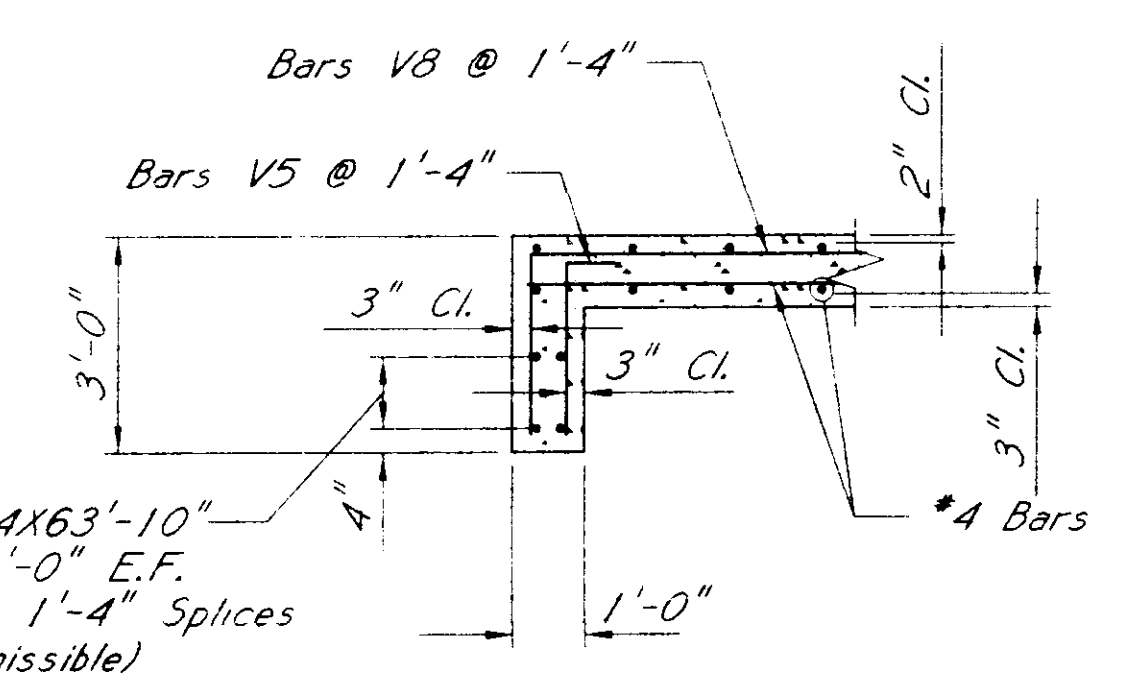
SECTION A-A
 Scale: 3/8" = 1'-0"



ELEVATION OF OUTLET WINGWALL
 Showing Reinforcement In Stream Face.
 Scale: 1/4" = 1'-0"



TYPICAL SECTION OF HEADWALL
 Scale: 3/8" = 1'-0"



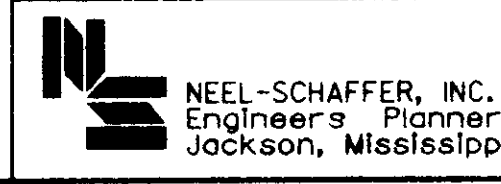
TYPICAL SECTION OF TOEWALL
 Scale: 3/8" = 1'-0"

NOTE: See Sheet No. A7 For Bar Bending Details.

GAZ7632763-08.dgn Rev. RJB 5-13-97

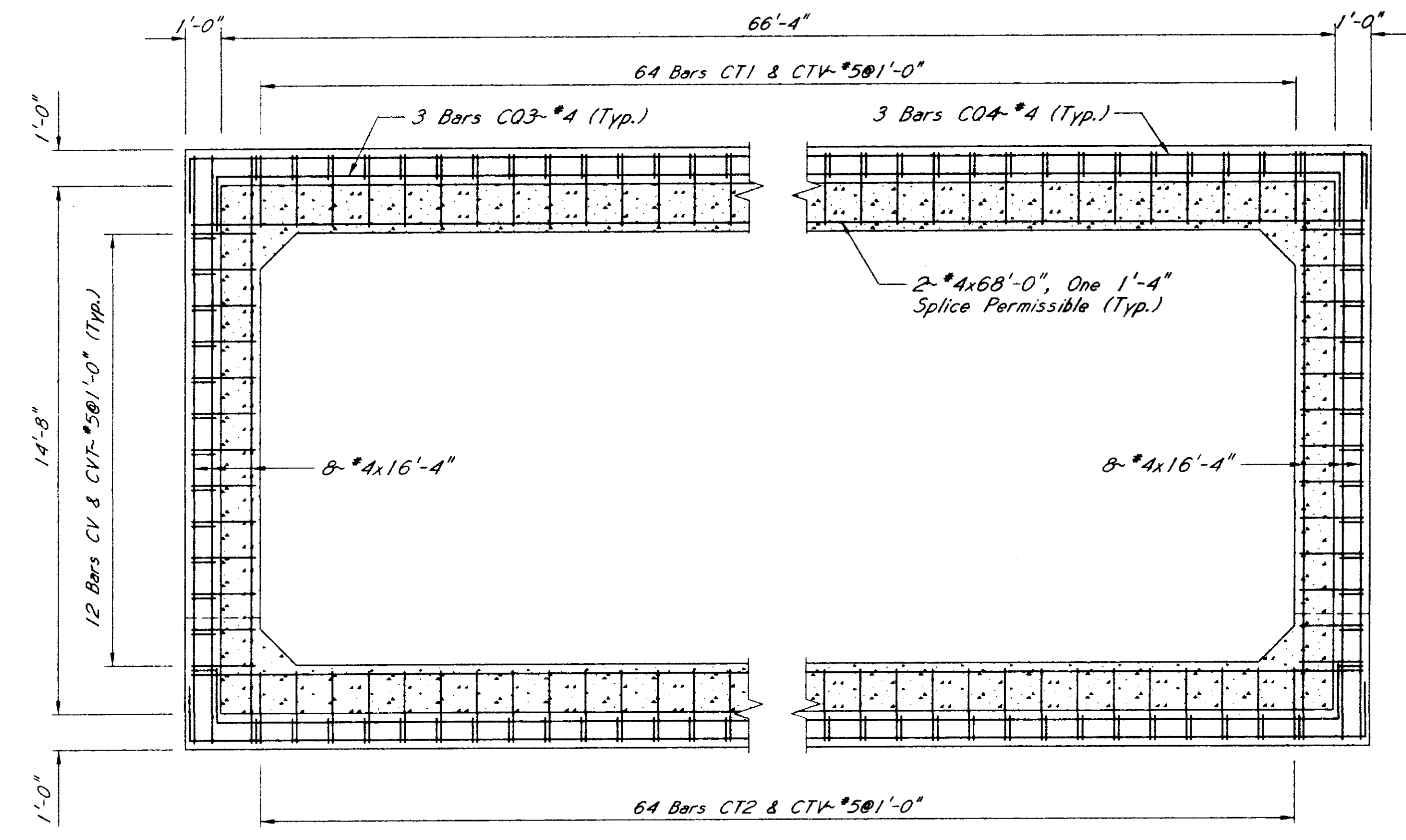


WAGGONER
 ENGINEERING, INC.
 ENGINEERS, PLANNERS, SCIENTISTS

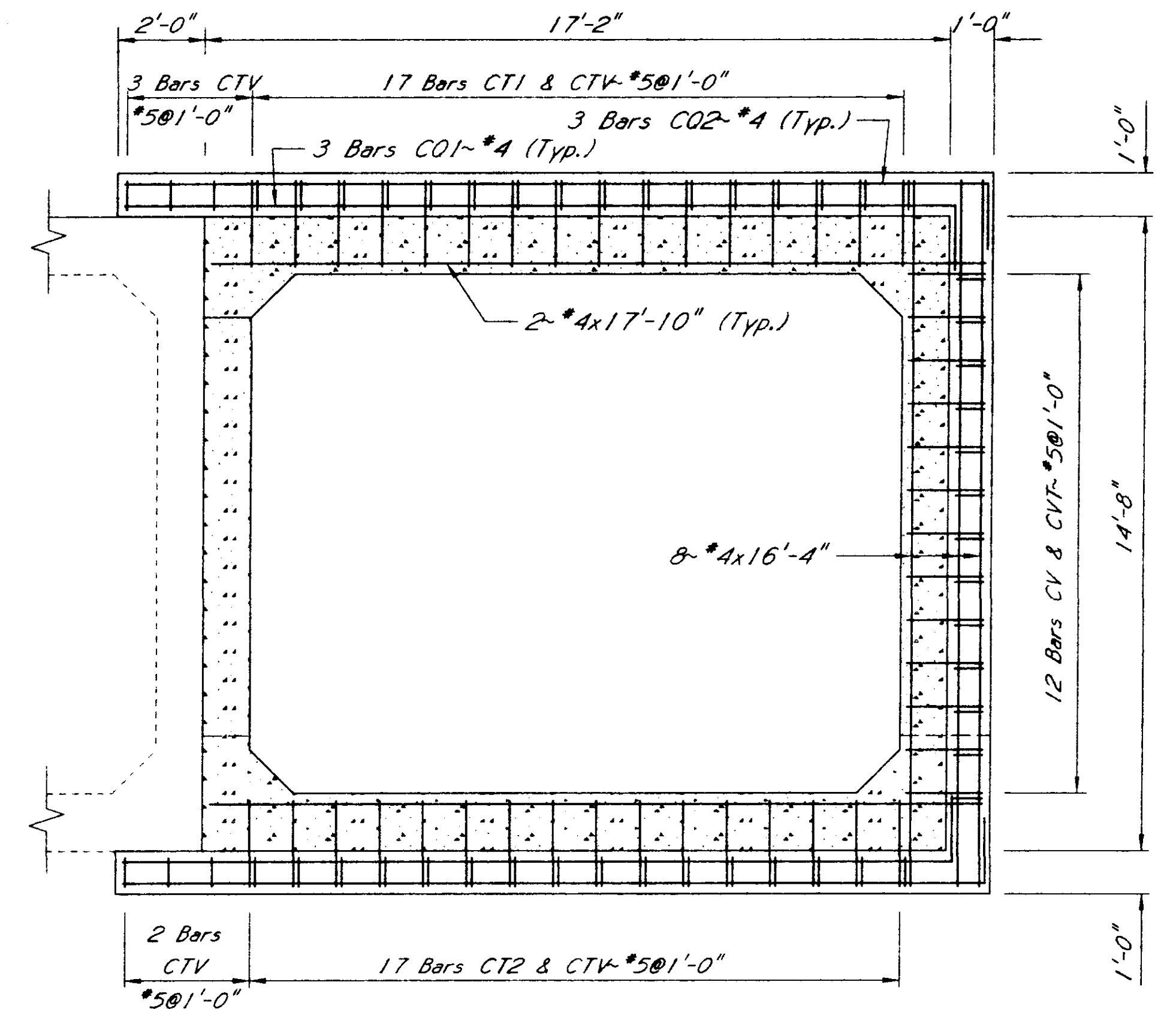


NEEL-SCHAFFER, INC.
 ENGINEERS, PLANNERS, SCIENTISTS
 JACKSON, MISSISSIPPI

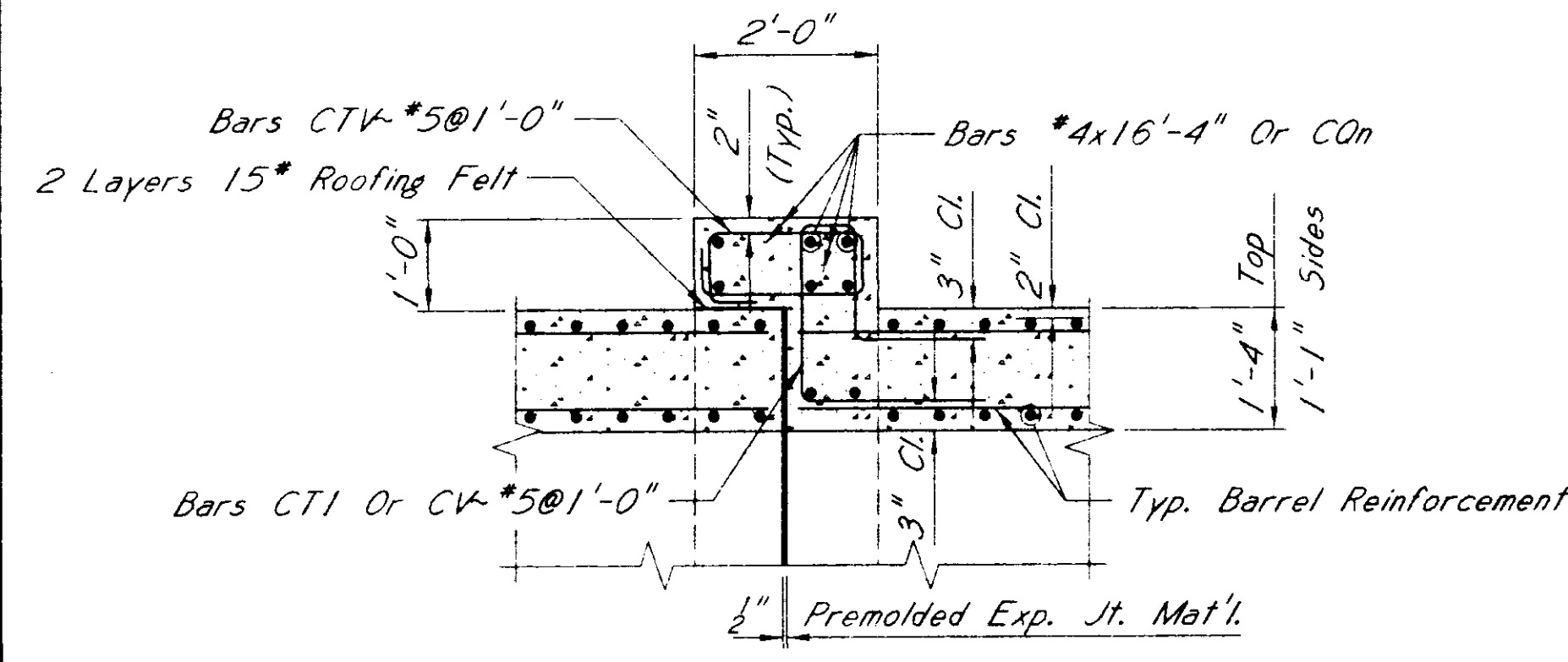
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		BOX BRIDGE MODIFICATIONS AT	
		STA. 59+07.00	
		OUTLET ELEVATIONS, SECTIONS	
		AND DETAILS	
DATE		PROJECT STP-6945(1)	
		49-6945-00-001-10	
		MADISON COUNTY-RIDGELAND	
DESIGNED	RJB	DETAILED	RJB
CHECKED		TRACED	CAD
		ISSUED	
		DATE	
		WORKING NUMBER	A8 OF 9
		SHEET NUMBER	
		40	



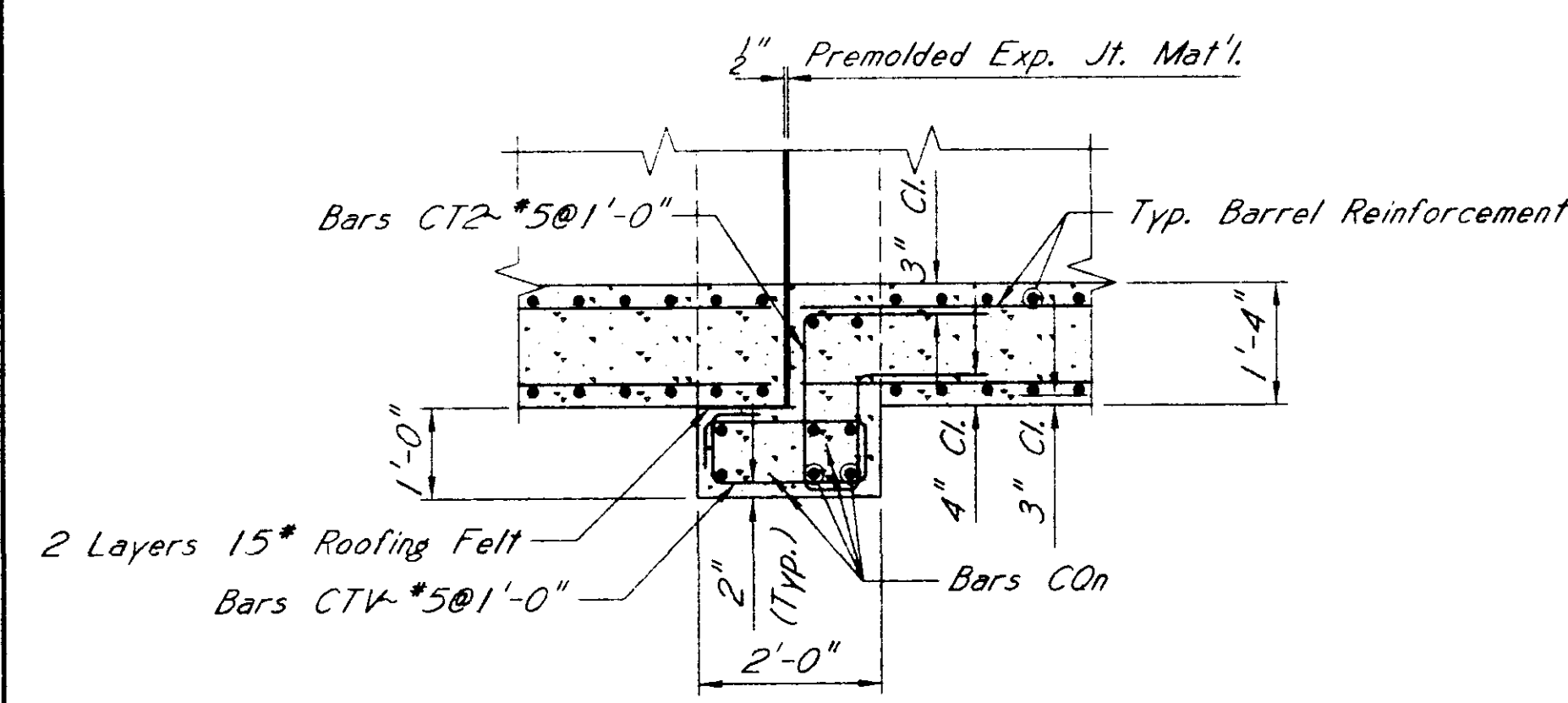
SECTION NEAR COLLAR 1
Scale: 8" = 1'-0"



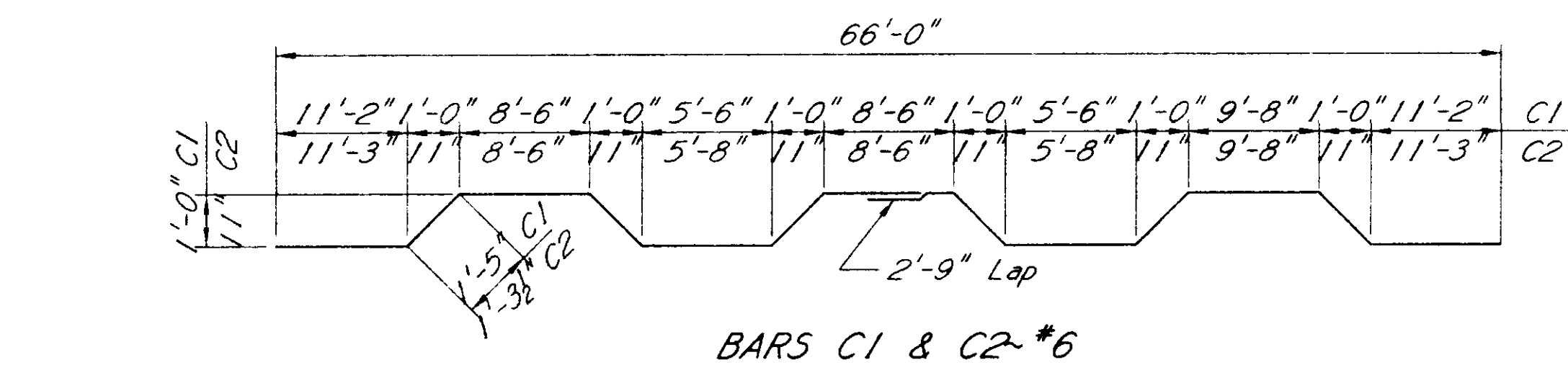
SECTION NEAR COLLAR 2
Scale: 8" = 1'-0"



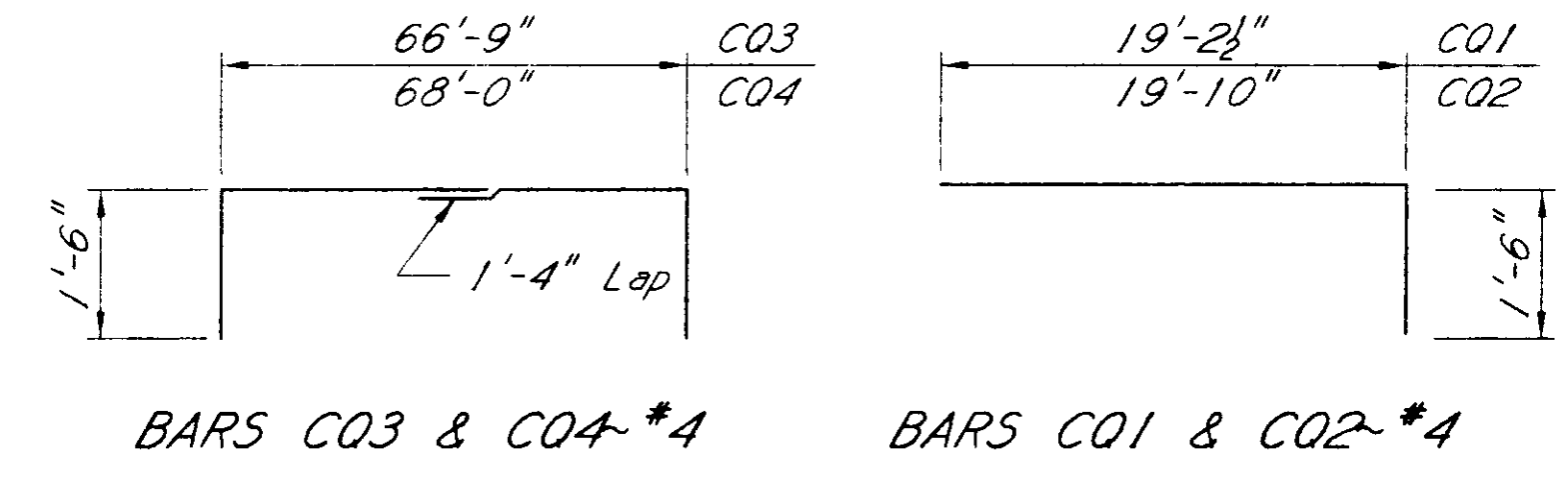
TYPICAL SECTION OF COLLAR ALONG TOP & SIDES
Scale: 3/4" = 1'-0"



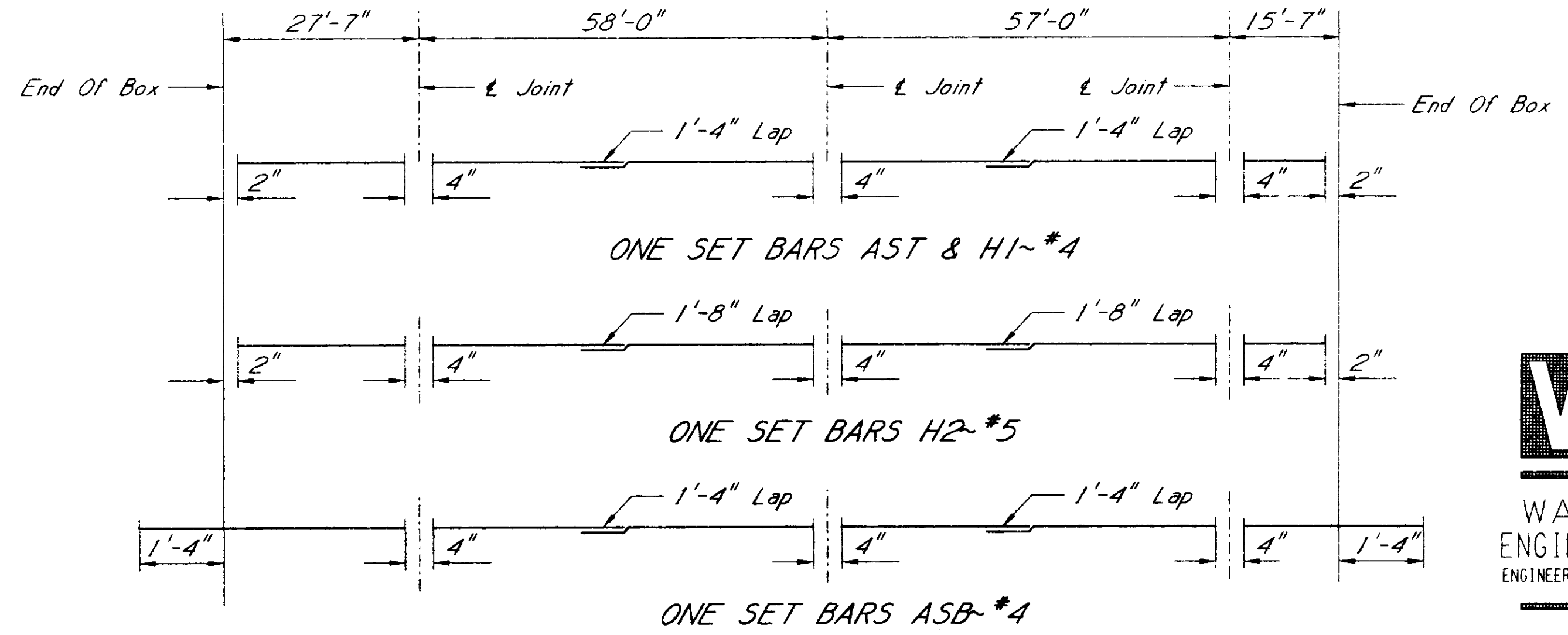
TYPICAL SECTION OF COLLAR ALONG BOTTOM
Scale: 3/4" = 1'-0"



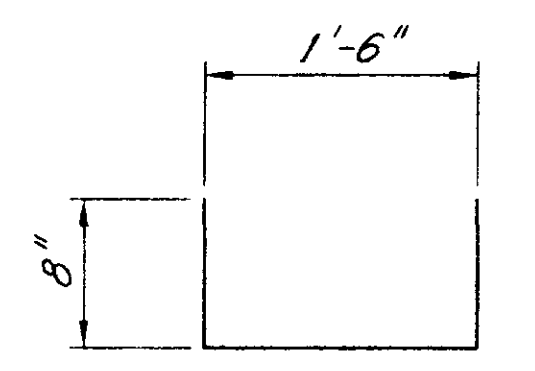
BARS C1 & C2 #6



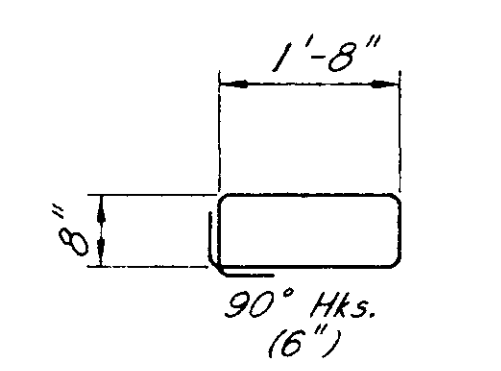
BARS CO3 & CO4 #4 BARS CO1 & CO2 #4



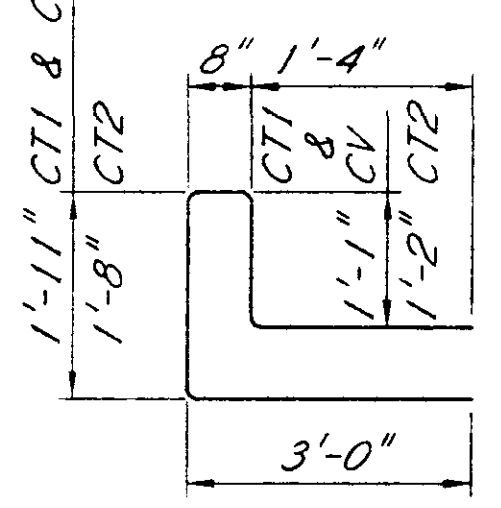
BAR BENDING DETAILS
Dimensions Are Out To Out



BARS N #4



BARS CTV #5



BARS CTn & CV #5

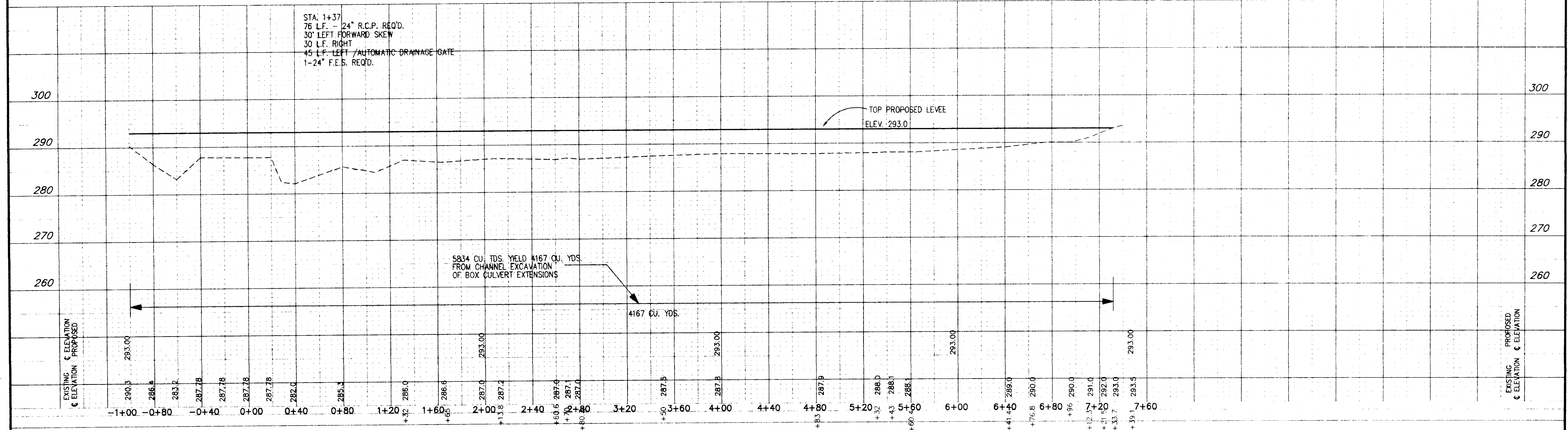
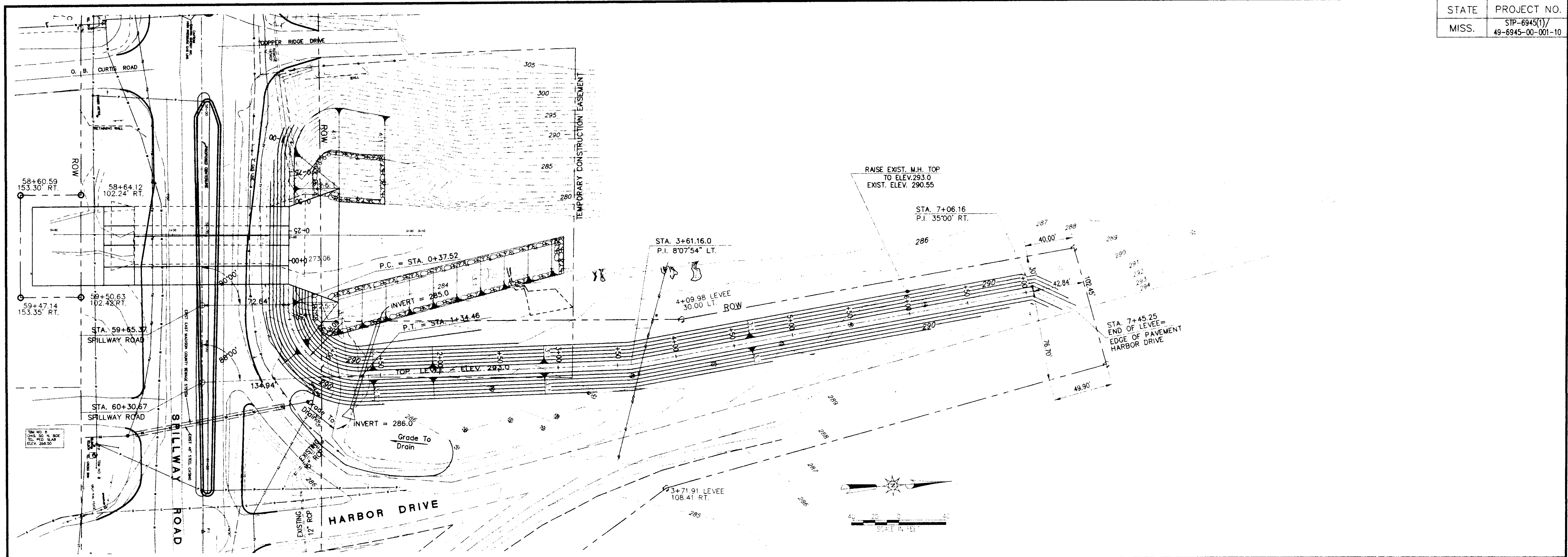


WAGGONER ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

NEEL-SCHAFFER, INC.
Engineers, Planners
Jackson, Mississippi

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION MODIFICATIONS TO BOX BRIDGE AT STA. 59+07.00 COLLAR DETAILS	
PROJECT		STP-6945(1) 49-6945-00-001-10	
MADISON COUNTY-RIDGELAND		WORKING NUMBER A9 OF 9	
DESIGNED	RJB	DETAILED	RJB
CHECKED		TRACED	CAD
ISSUED		DATE	
		SHEET NUMBER 41	

6/27/63 2763-09.dgn rev. FJB 5-13-97



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NO.	DATE	REVISIONS	BY

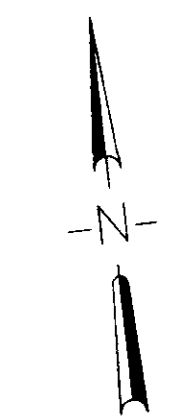
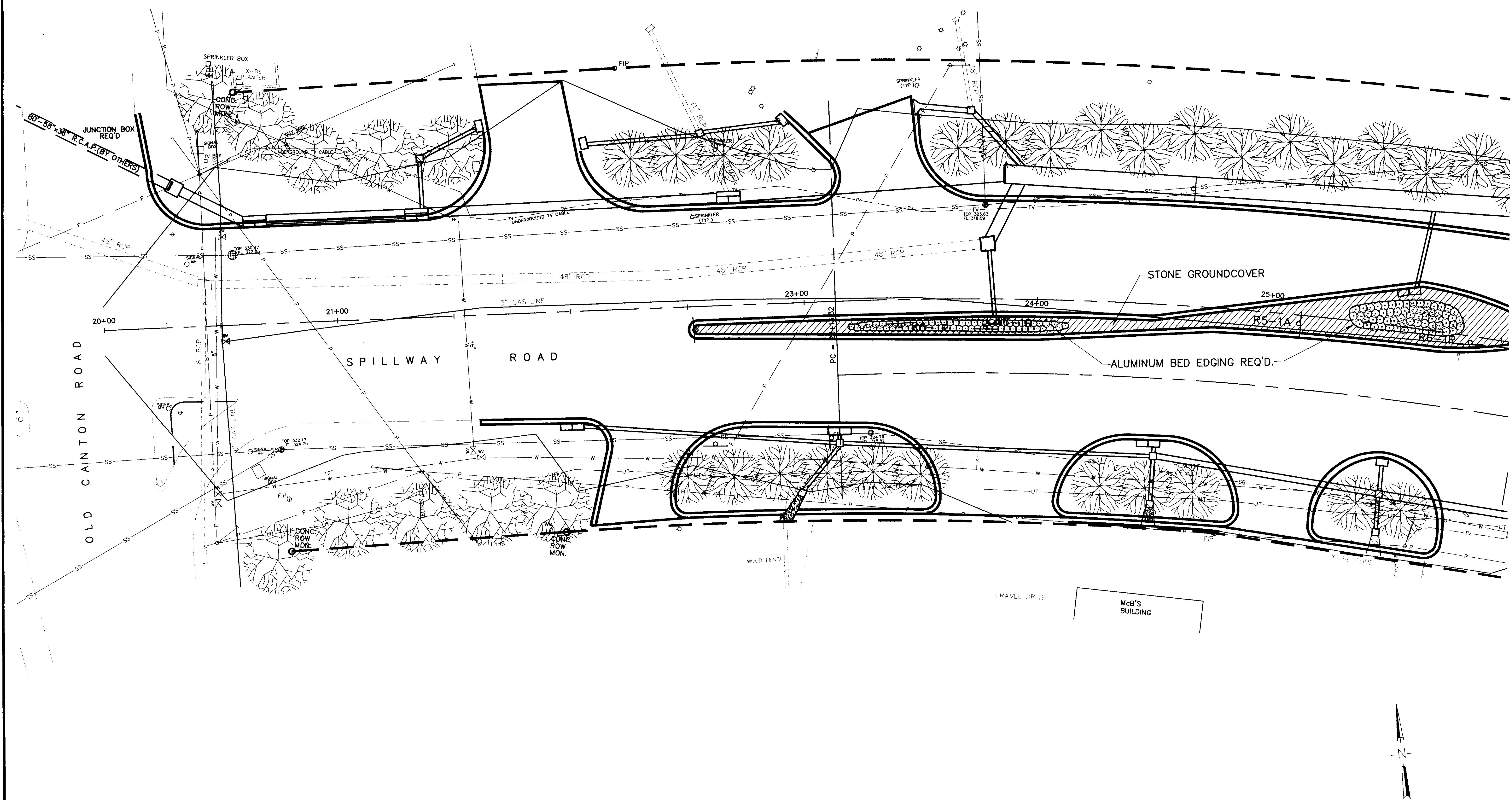
DESIGNED R.R.W.	DATE 4/97	WEI WAGGONER ENGINEERING, INC. ENGINEERS, PLANNERS, SCIENTISTS
DRAWN D.A.P.	SCALE 1"=40' HORIZ. 1"=10' VERT.	

NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Jackson, Mississippi

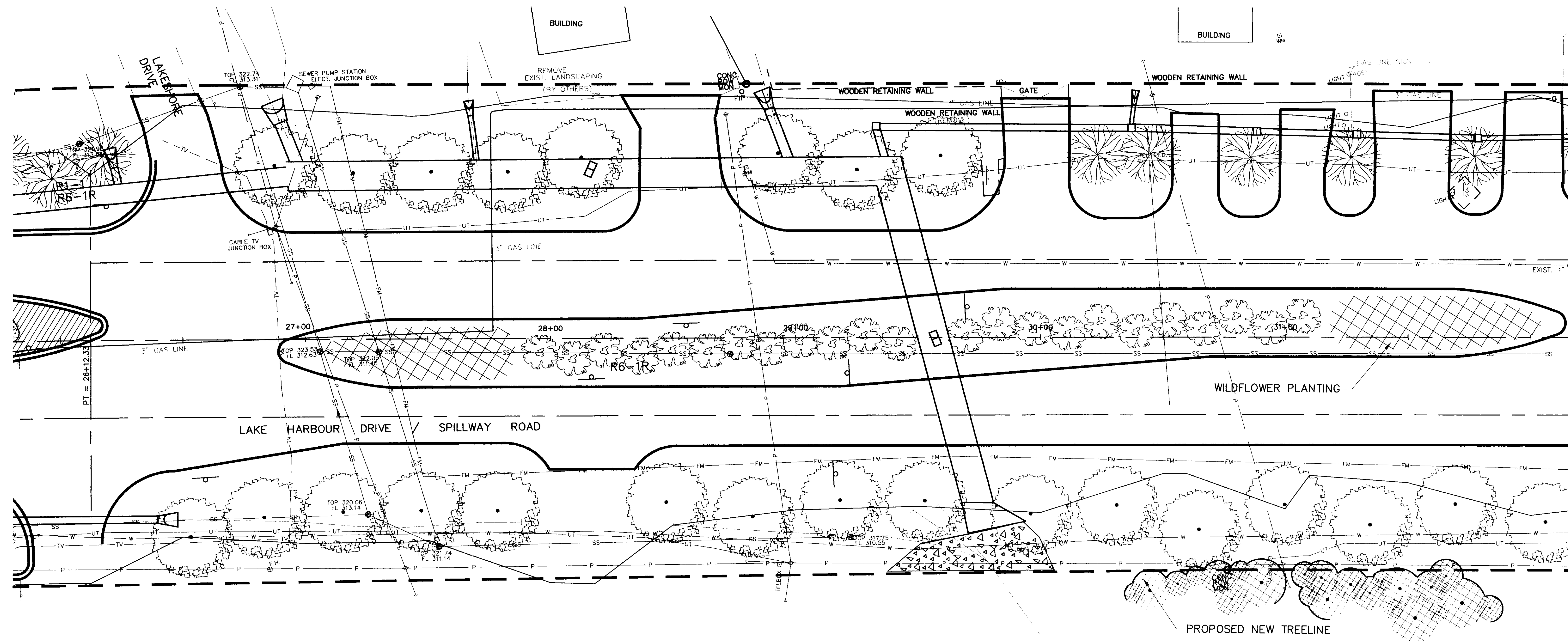
SPILLWAY ROAD IMPROVEMENTS
RIDGELAND, MADISON CO, MS.

PLAN PROFILE SHEET
LEVEE ALONG HARBOR DR.

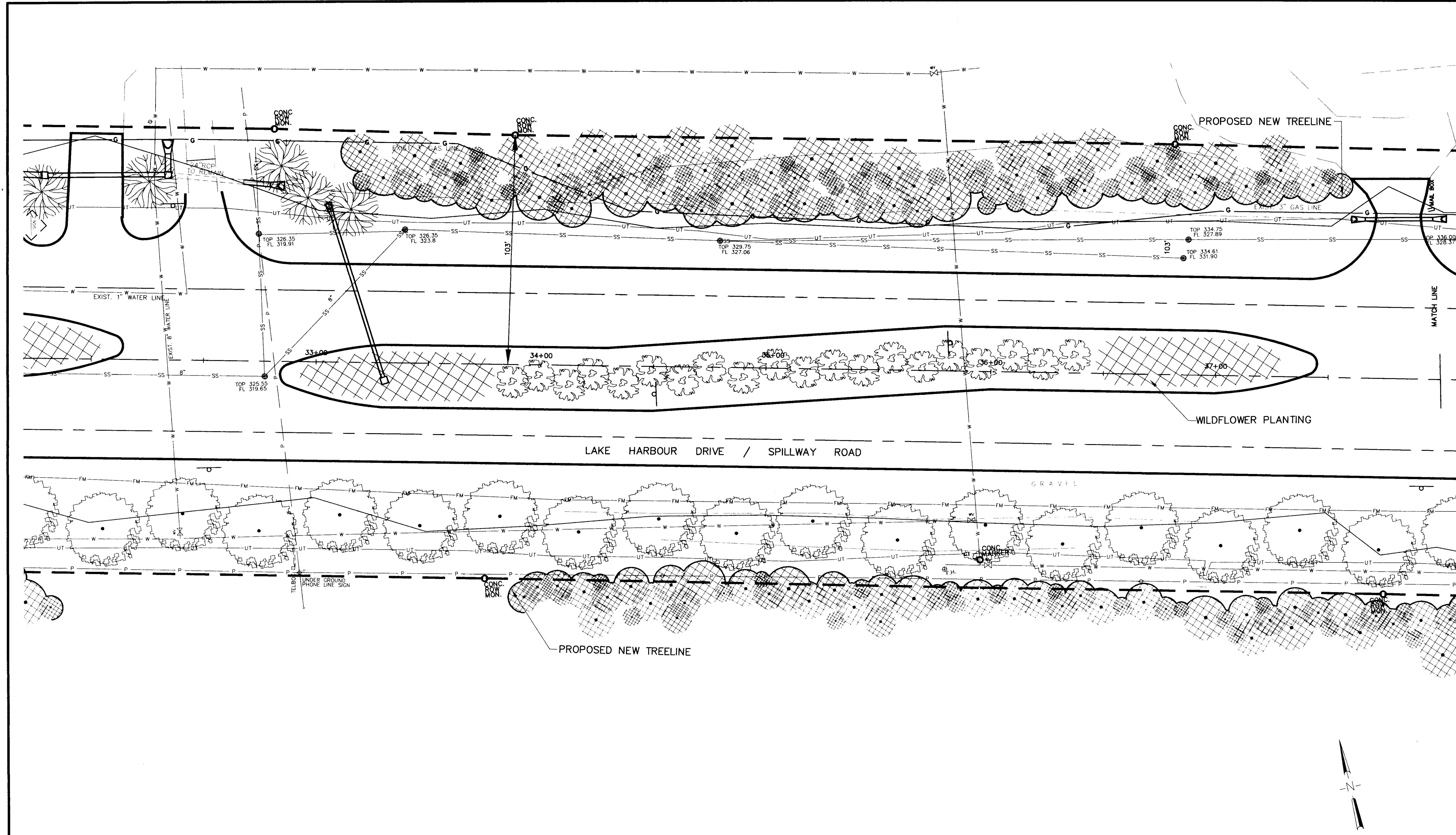
ROAD PATH ROUTE
W.E.L. JOB NO. SHEET NO.
42



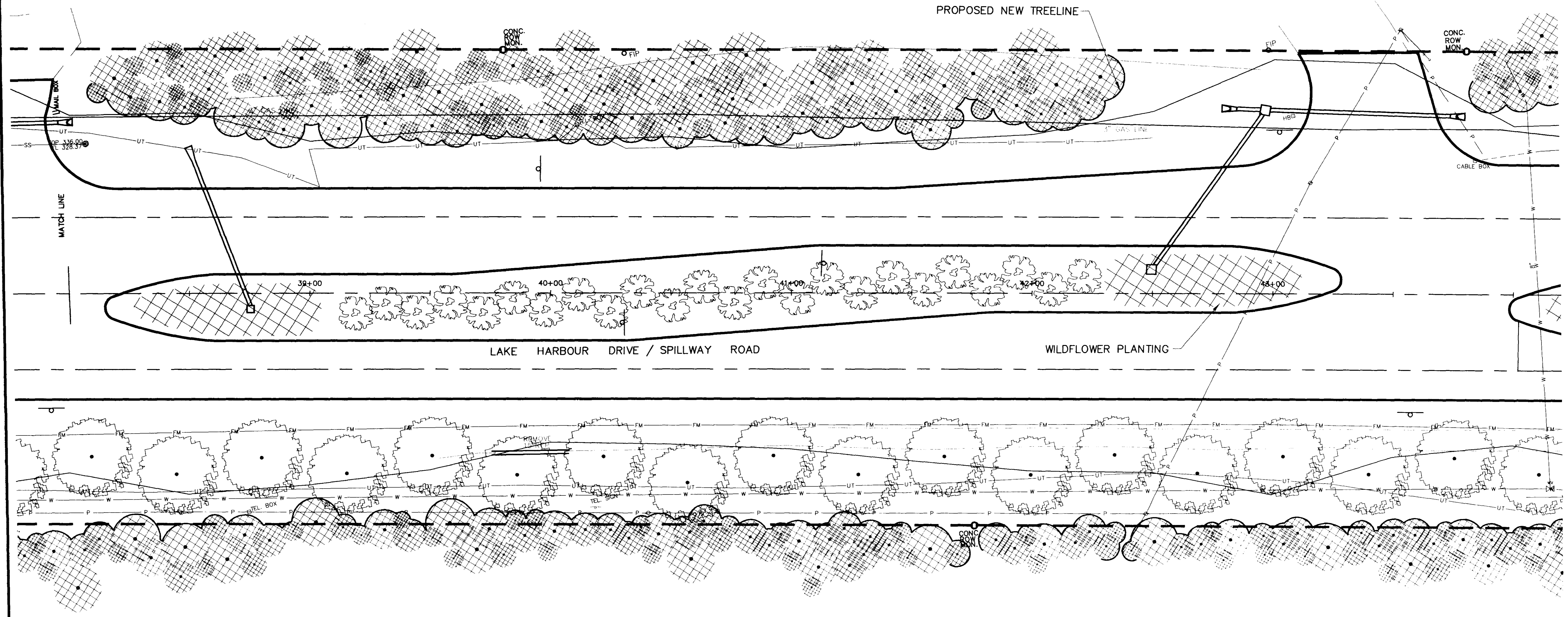
SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: T.J.	DATE: 7-9-97	WORKING NUMBER OF
REVIEWED BY: J.H.	SCALE: 1"=20'	SHEET NUMBER 43



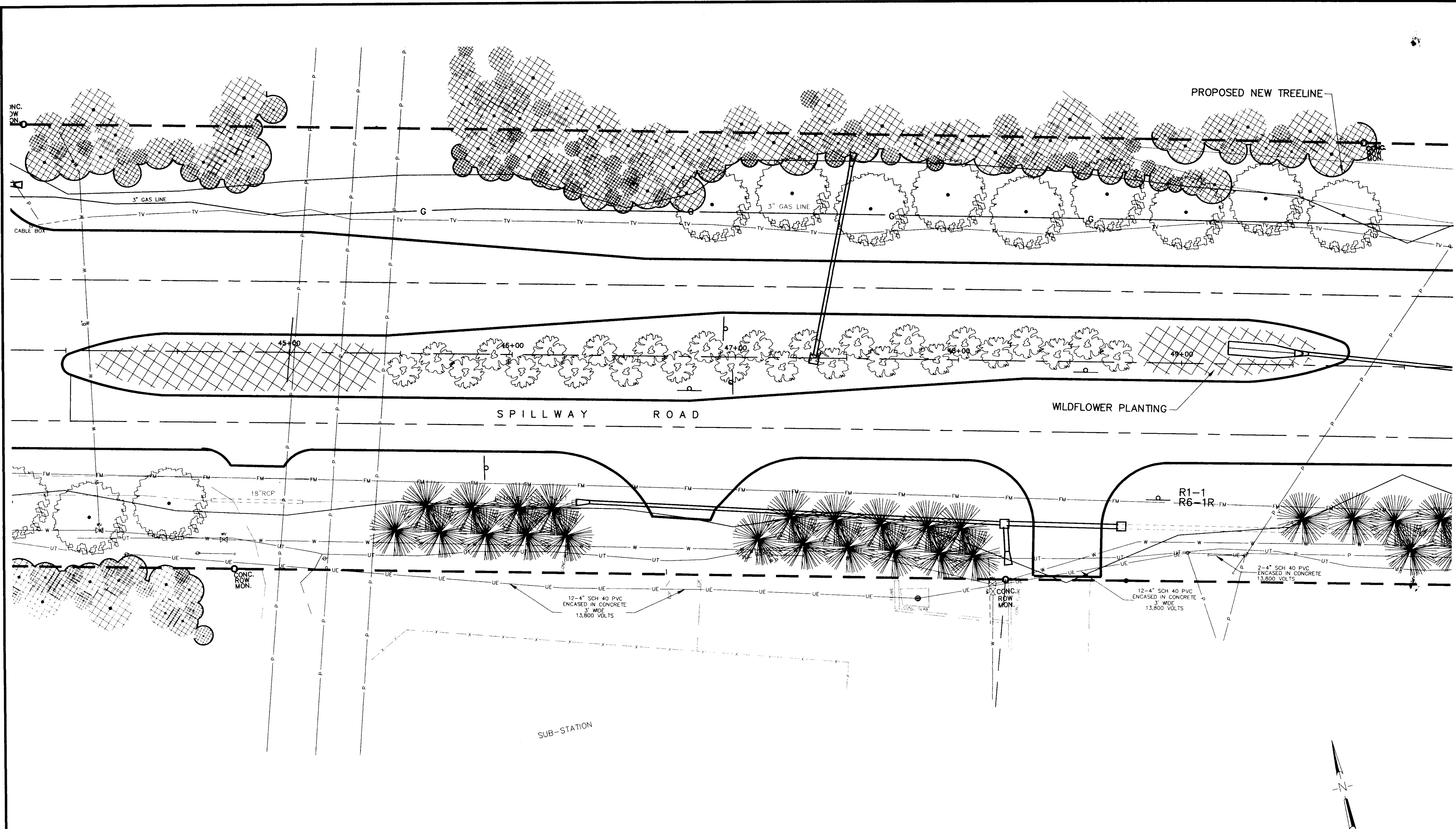
SPILLWAY ROAD IMPROVEMENTS		
F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
<small>WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi</small>		
<small>DRAWN BY: T.J.</small>	<small>DATE: 7-9-97</small>	WORKING NUMBER
<small>REVIEWED BY: J.H.</small>	<small>SCALE: 1"=20'</small>	OF
		SHEET NUMBER
		44



SPILLWAY ROAD IMPROVEMENTS		
F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
<small>WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi</small>		
<small>DRAWN BY: T.J.</small>	<small>DATE: 7-9-97</small>	<small>WORKING NUMBER OF</small>
<small>REVIEWED BY: J.H.</small>	<small>SCALE: 1"=20'</small>	<small>SHEET NUMBER</small>
		45



SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
<small>WAGGONER ENGINEERING, INC.</small> <small>Consulting Engineers - Jackson, Mississippi</small>		
<small>DRAWN BY: T.J.</small>	<small>DATE: 7-9-97</small>	<small>WORKING NUMBER</small> <small>OF</small>
<small>REVIEWED BY: J.H.</small>	<small>SCALE: 1"=20'</small>	<small>SHEET NUMBER</small> 45



PROPOSED NEW TREELINE

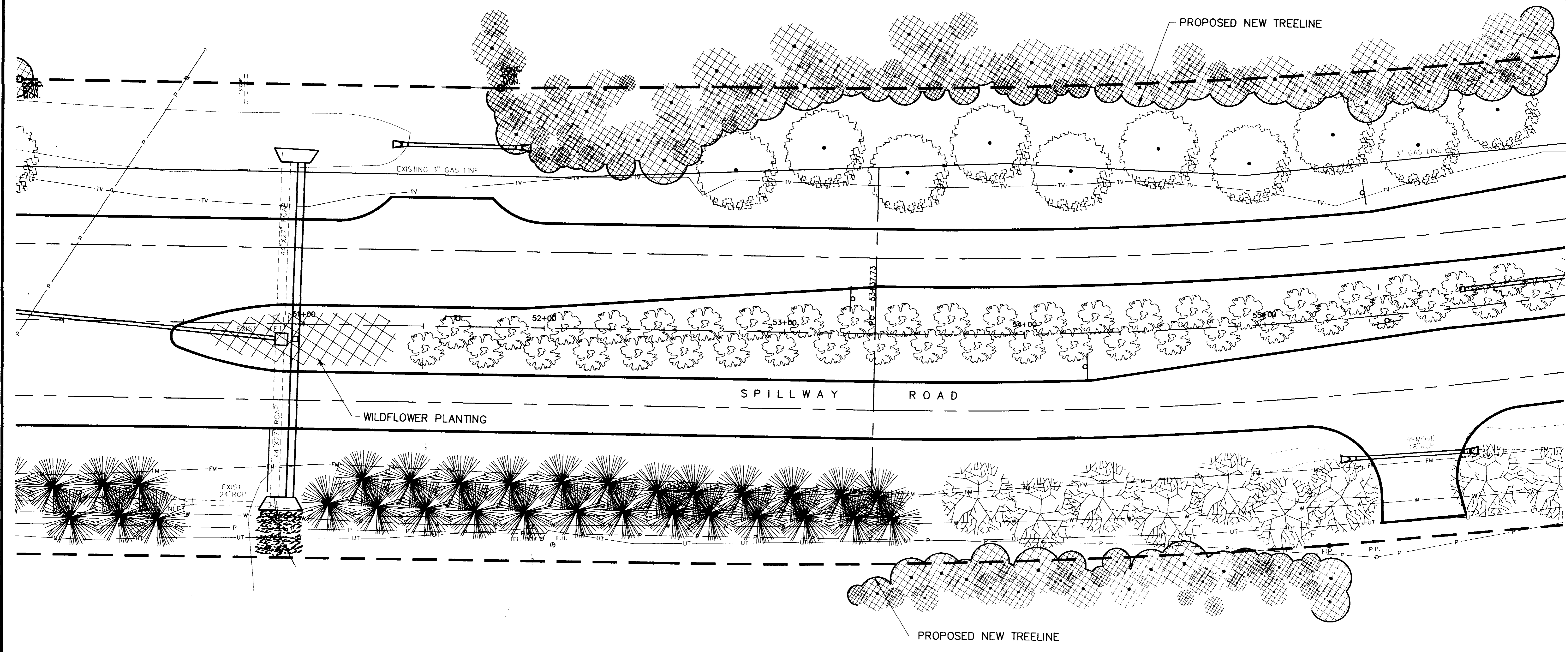
SPILLWAY ROAD

WILDFLOWER PLANTING

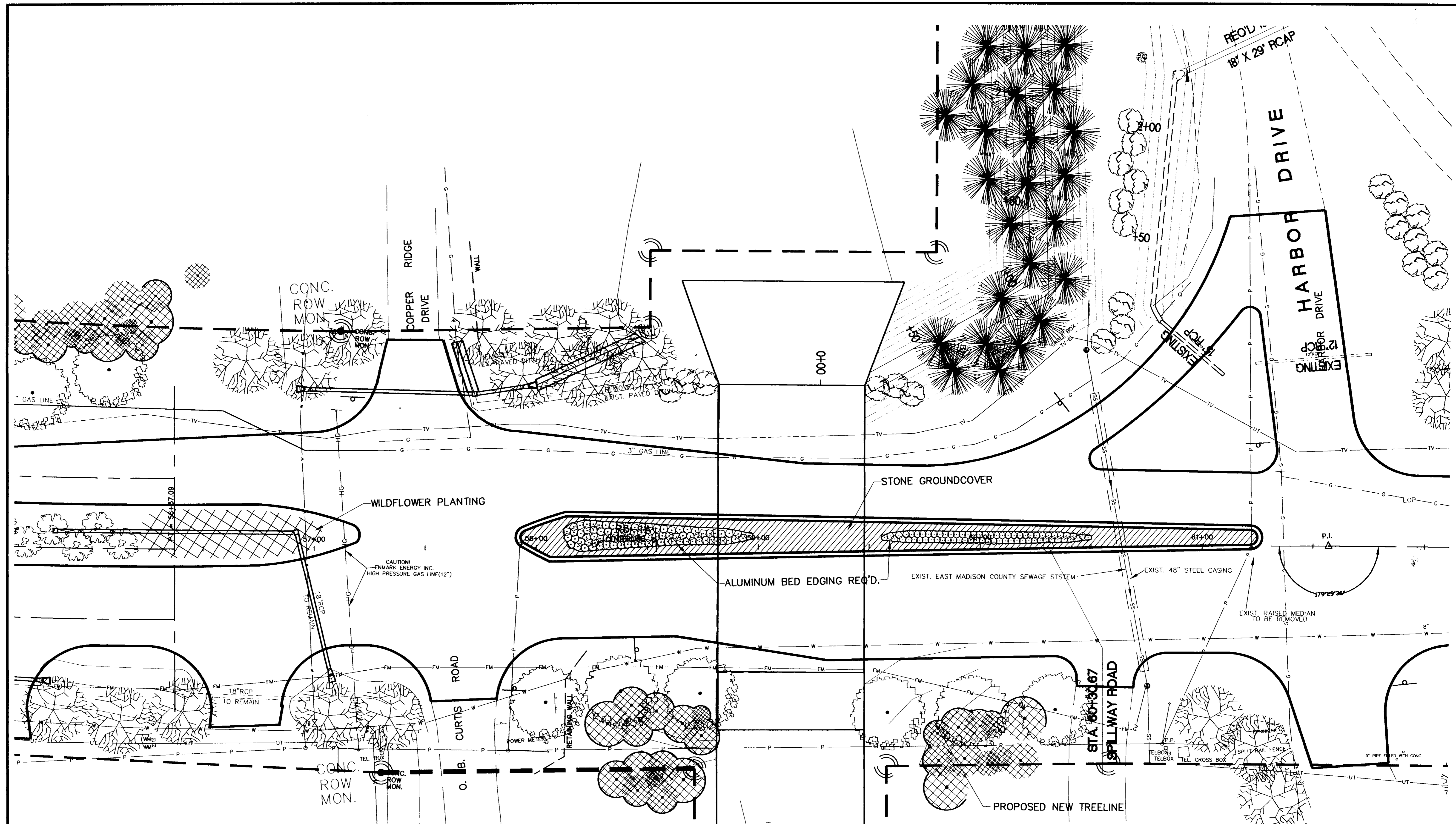
SUB-STATION



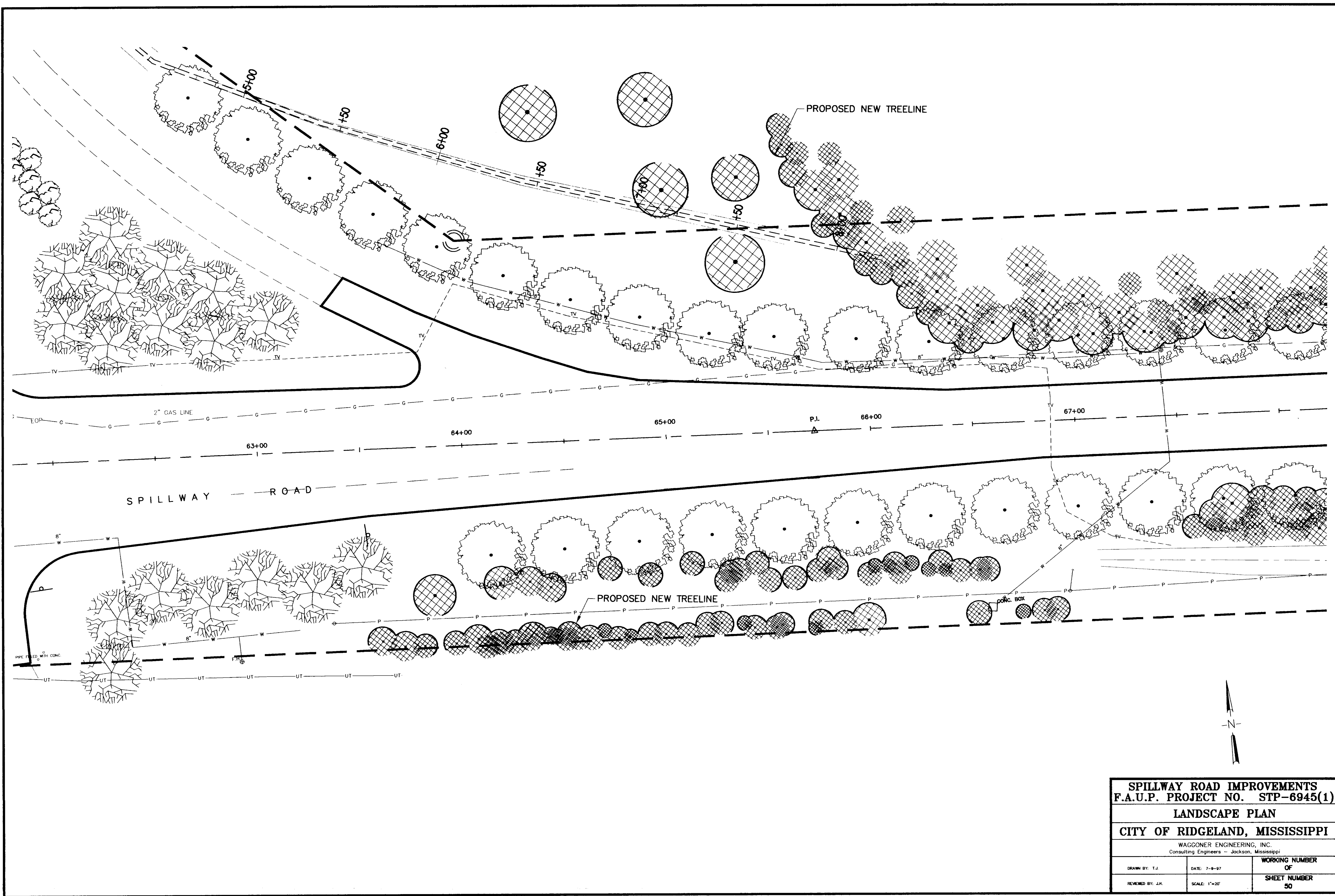
SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: T.J.	DATE: 7-9-97	WORKING NUMBER OF SHEET NUMBER 47
REVIEWED BY: J.H.	SCALE: 1"=20'	



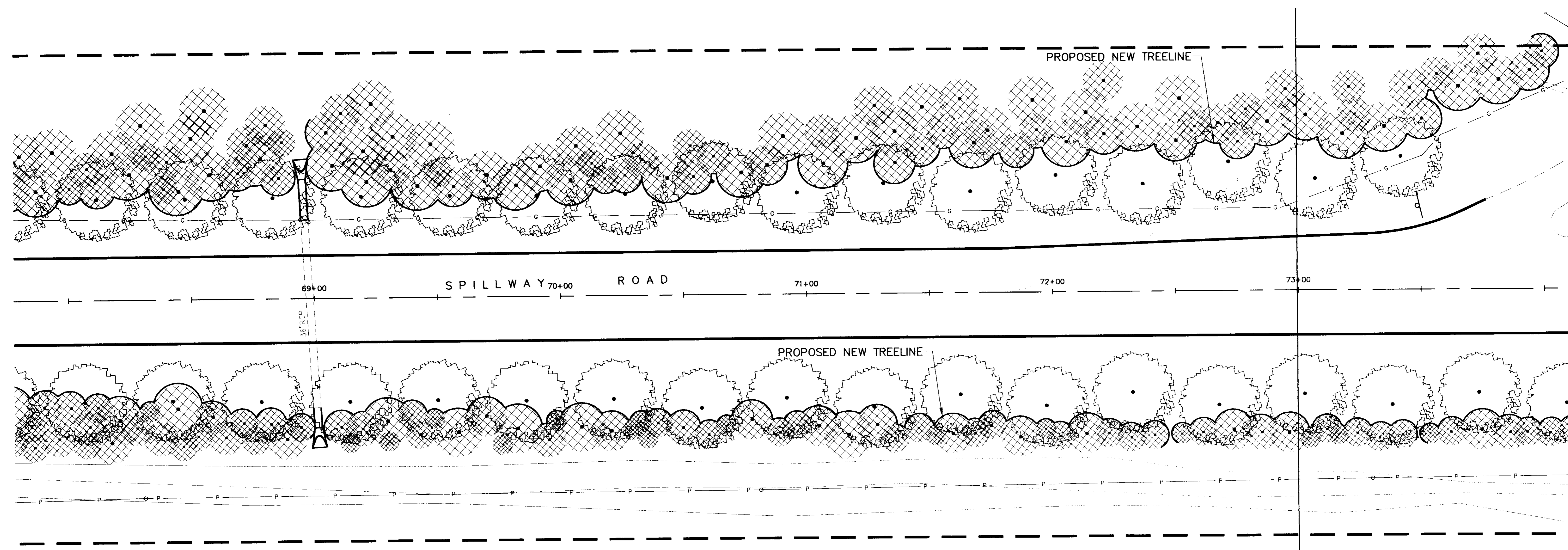
SPILLWAY ROAD IMPROVEMENTS		
F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
<small>WAGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi</small>		
<small>DRAWN BY: T.J.</small>	<small>DATE: 7-9-97</small>	WORKING NUMBER
<small>REVIEWED BY: J.H.</small>	<small>SCALE: 1"=30'</small>	OF
		SHEET NUMBER
		48



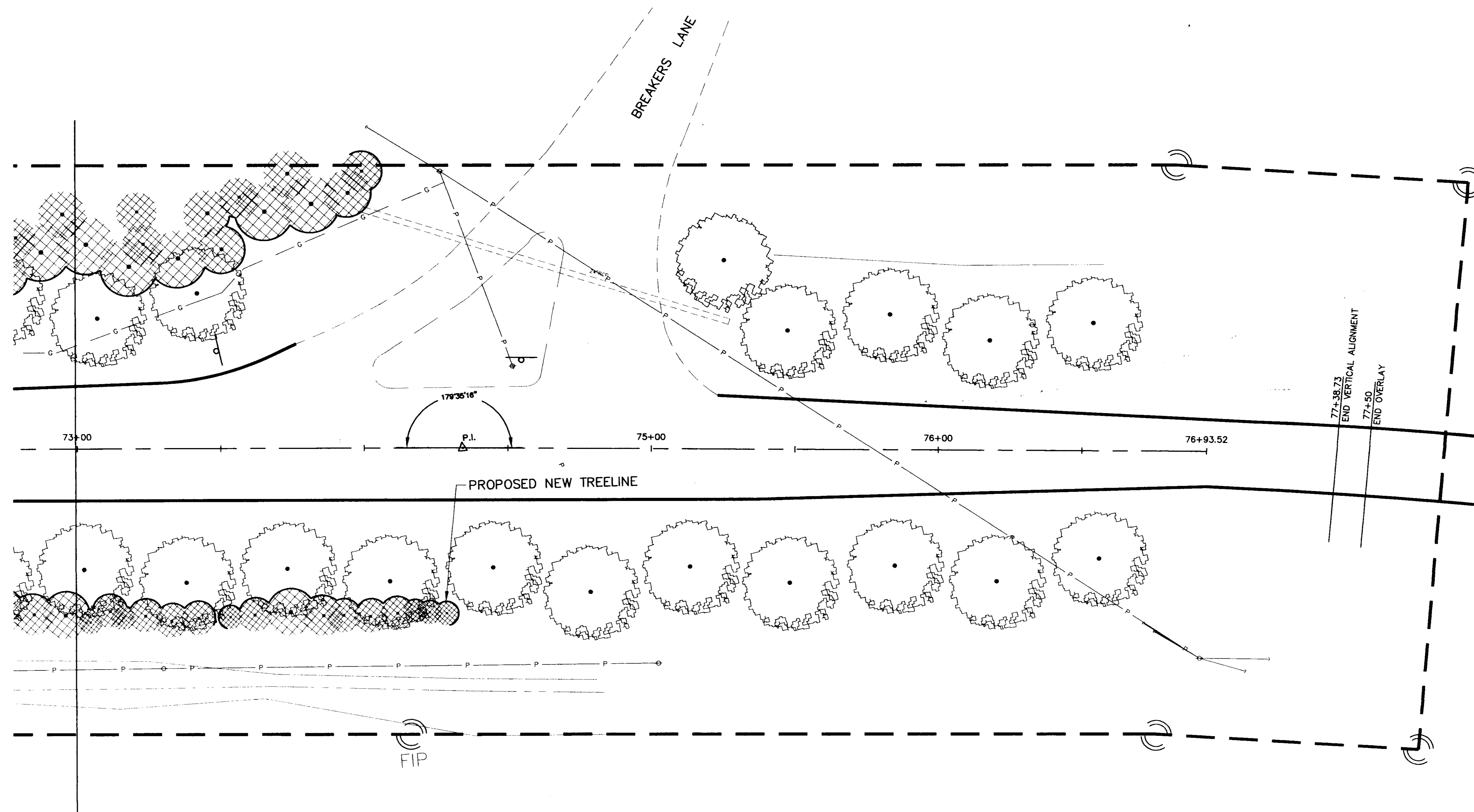
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F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: T.J.	DATE: 7-9-97	WORKING NUMBER OF
REVIEWED BY: J.H.	SCALE: 1"=20'	SHEET NUMBER 49



SPILLWAY ROAD IMPROVEMENTS		
F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
WAGGONER ENGINEERING, INC. Consulting Engineers - Jackson, Mississippi		
DRAWN BY: T.J.	DATE: 7-9-97	WORKING NUMBER OF
REVIEWED BY: J.H.	SCALE: 1"=20'	SHEET NUMBER 50



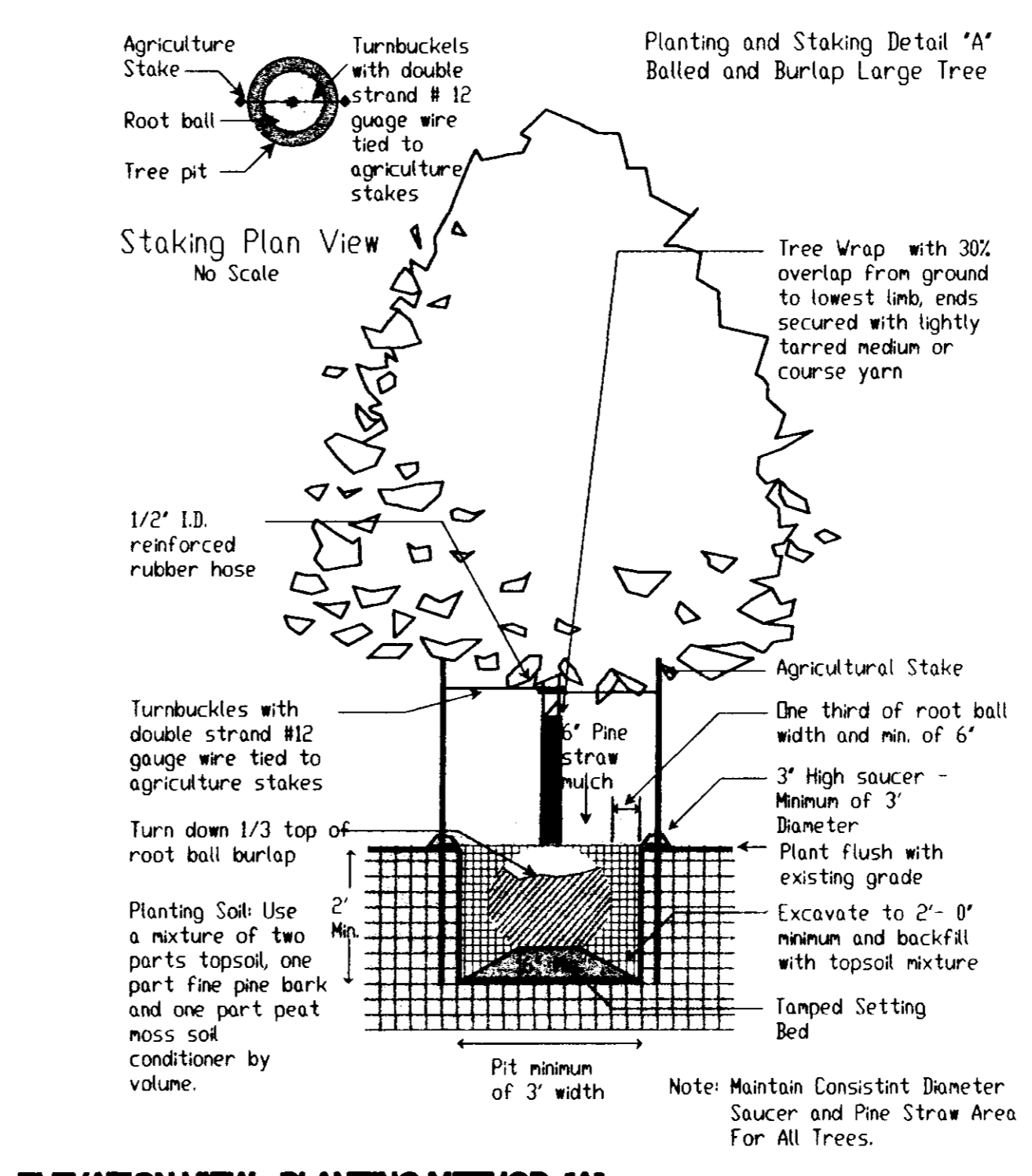
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LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
<small>WAGGONER ENGINEERING, INC.</small> <small>Consulting Engineers - Jackson, Mississippi</small>		
<small>DRAWN BY: T.J.</small>	<small>DATE: 7-9-97</small>	<small>WORKING NUMBER</small> <small>OF</small>
<small>REVIEWED BY: J.H.</small>	<small>SCALE: 1"=20'</small>	<small>SHEET NUMBER</small> <small>51</small>



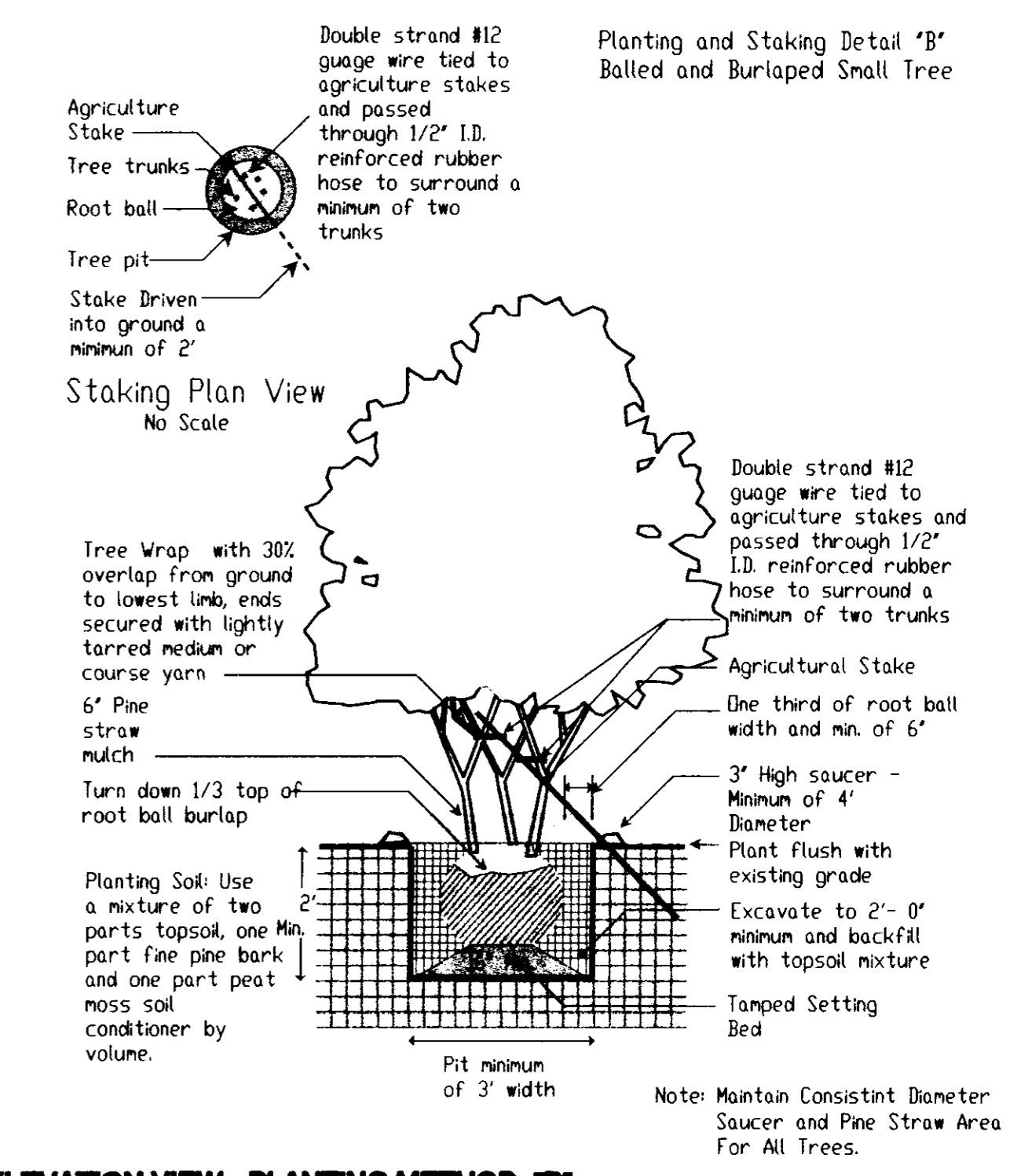
SPILLWAY ROAD IMPROVEMENTS F.A.U.P. PROJECT NO. STP-6945(1)		
LANDSCAPE PLAN		
CITY OF RIDGELAND, MISSISSIPPI		
<small>WAGGONER ENGINEERING, INC.</small> <small>Consulting Engineers - Jackson, Mississippi</small>		
<small>DRAWN BY: T.J.</small>	<small>DATE: 7-9-97</small>	<small>WORKING NUMBER</small> <small>OF</small>
<small>REVIEWED BY: J.H.</small>	<small>SCALE: 1"=20'</small>	<small>SHEET NUMBER</small> 52

PLANT MATERIALS LIST							
	#	SYMBOL	COMMON NAME	SCIENTIFIC NAME	PLANTING METHODS	SIZE / HABIT	COMMENTS
TREES	N/A		EXISTING TREES	N/A	N/A	N/A	Protect from disturbance outside of Daylight Line
	116		SLASH PINE	PINUS CARIBAEA	B	6-8' Height	
	51		RED MAPLE	ACER RUBRUM	A	10-12' Height 1 1/2 - 2" Caliper	
	38		BRADFORD PEAR	PYRUS CALLERYANA "BRADFORD"	A	10-12' Height 2 1/2-3" Caliper	
	139		CREPEMYRTLE	LAGERSTROEMIA INDICA	B	8-10'	Multi-Trunk, Tree Form, Watermelon Red
	157		LITTLE LEAF LINDEN	TILIA CORDATA	A	10-12' Height 2 1/2-3" Caliper	
	20		BLOODLEAF MAPLE	ACER PALMATUM 'ATROPURPURERUM'	B	15 Gal. 5-6' Height x 5' Spread	Multi-Trunk, 3 to 5 Unpruned Branches
	SHRUBS	134		DWARF ABELIA	Abelia grandiflora 'Edward Goucher'	C	24" Ht.x24"Sp.
152			INDIAN HAWTHORNE	RAPHIOLEPIS INDICA	C	30" Ht.x30"Sp.	
GROUND COVERS	0.35 ACRE		WILD FLOWERS	Utilize wildflower mix as indicated in specifications (Submittal Required)		Establish in Grassed Areas Identified on Plans.	
	5,610 SF		Decorative Stone		E	3/4" Dia. Old Barn Red	4" Thick W/Black Plastic Underneath (Absorbed Item) (Submittal Required)

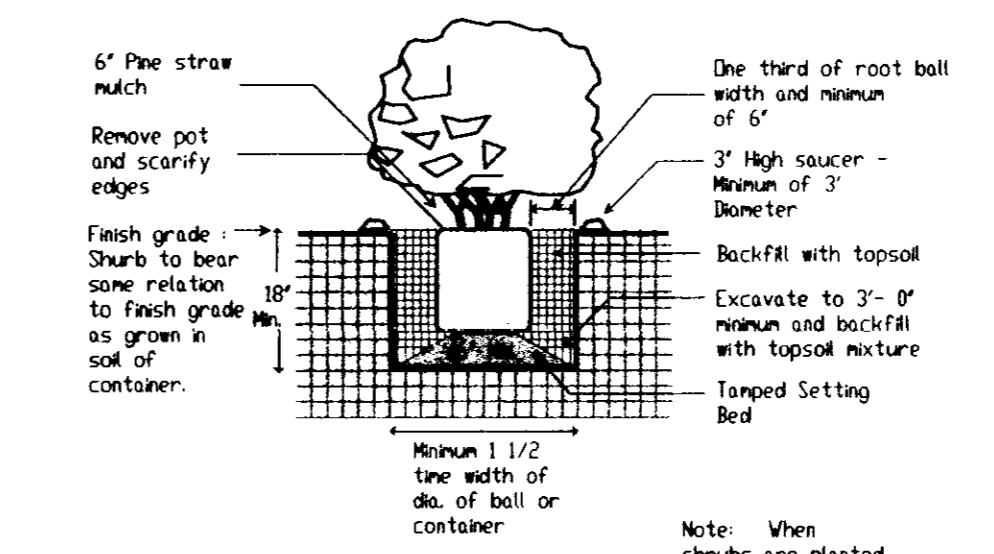
NOTE: 1. All Beds Will Be Mulched With Pine Straw 6" Thick. Unless Otherwise Noted on Plant Materials List Trees Will Be Mulched With Pine Bark 6" Thick At A 2' Radius From Trunks in Areas Where They Are Surrounded By Grass.



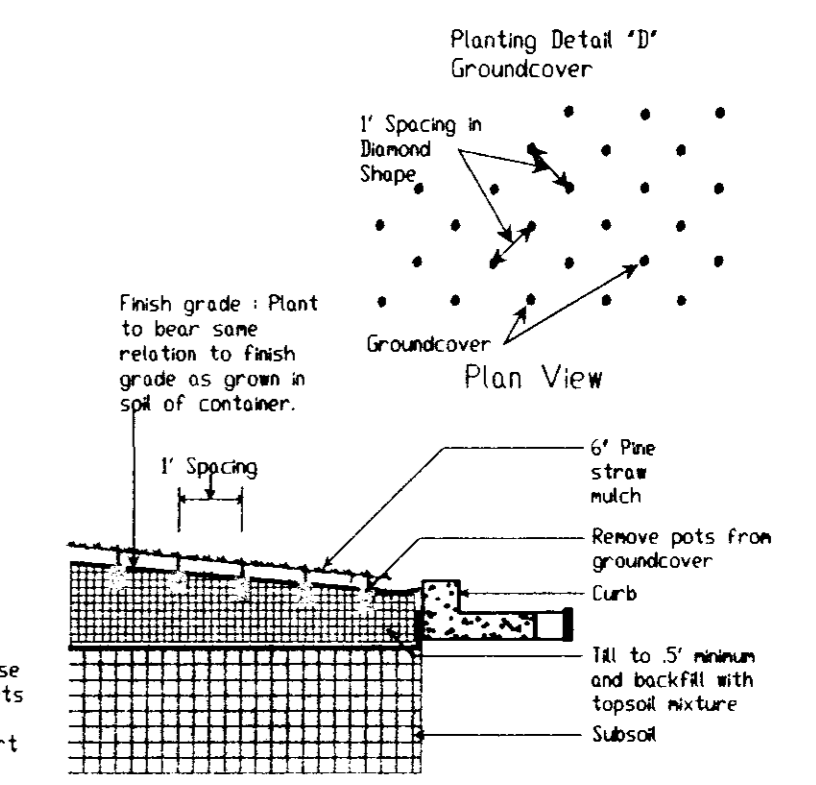
ELEVATION VIEW - PLANTING METHOD "A"
NOT TO SCALE



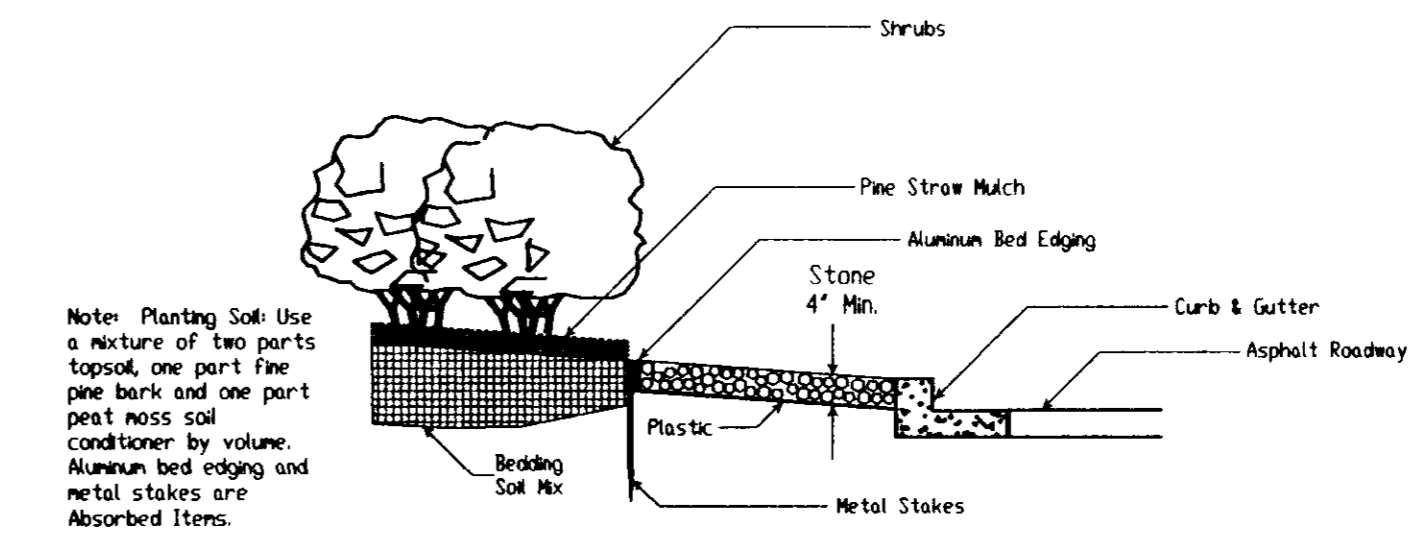
ELEVATION VIEW - PLANTING METHOD "B"
NOT TO SCALE



ELEVATION VIEW - PLANTING METHOD "C"
NOT TO SCALE



SECTION VIEW - PLANTING METHOD "D"
NOT TO SCALE



SECTION VIEW - STONE GROUNDCOVER "E"
NOT TO SCALE

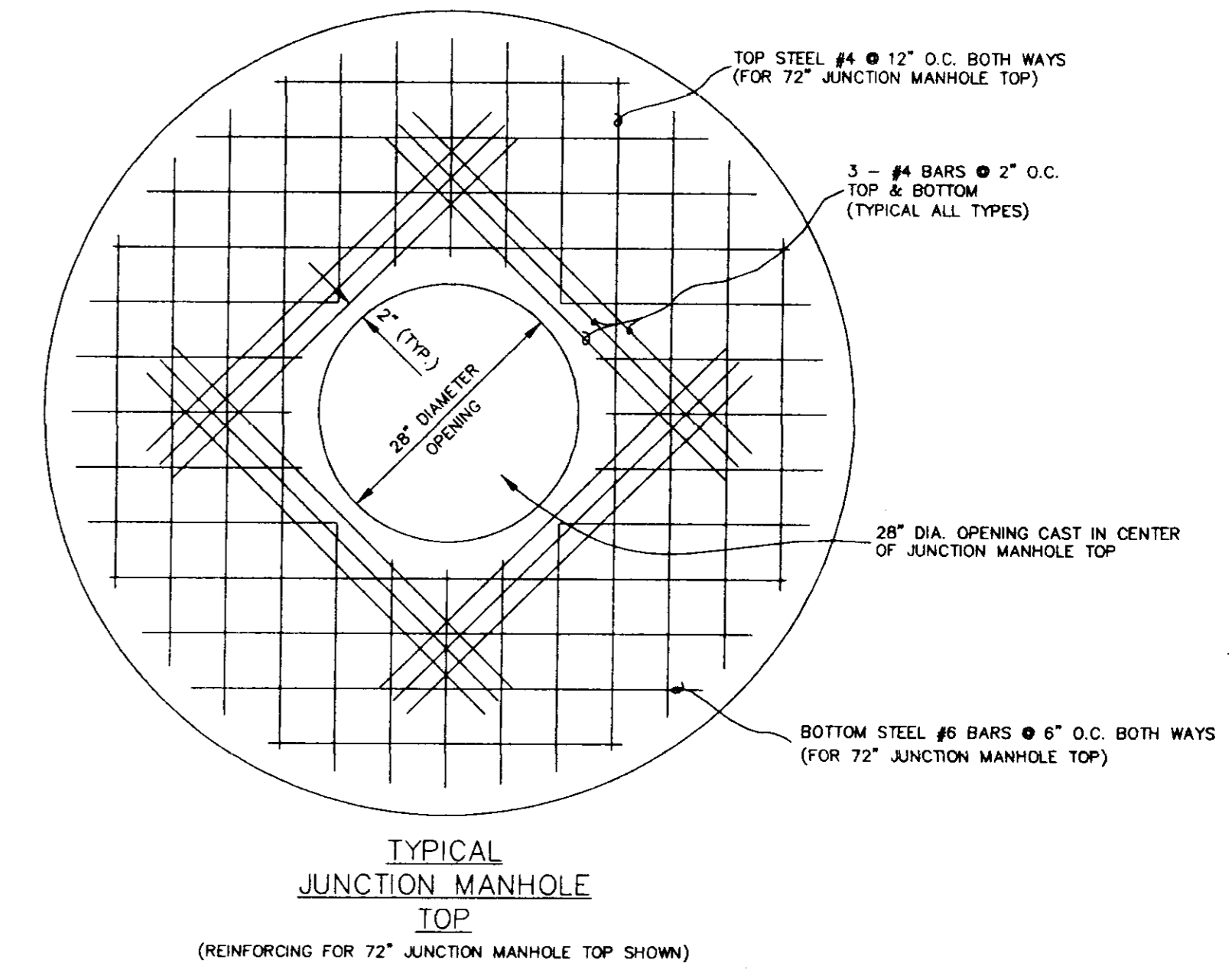
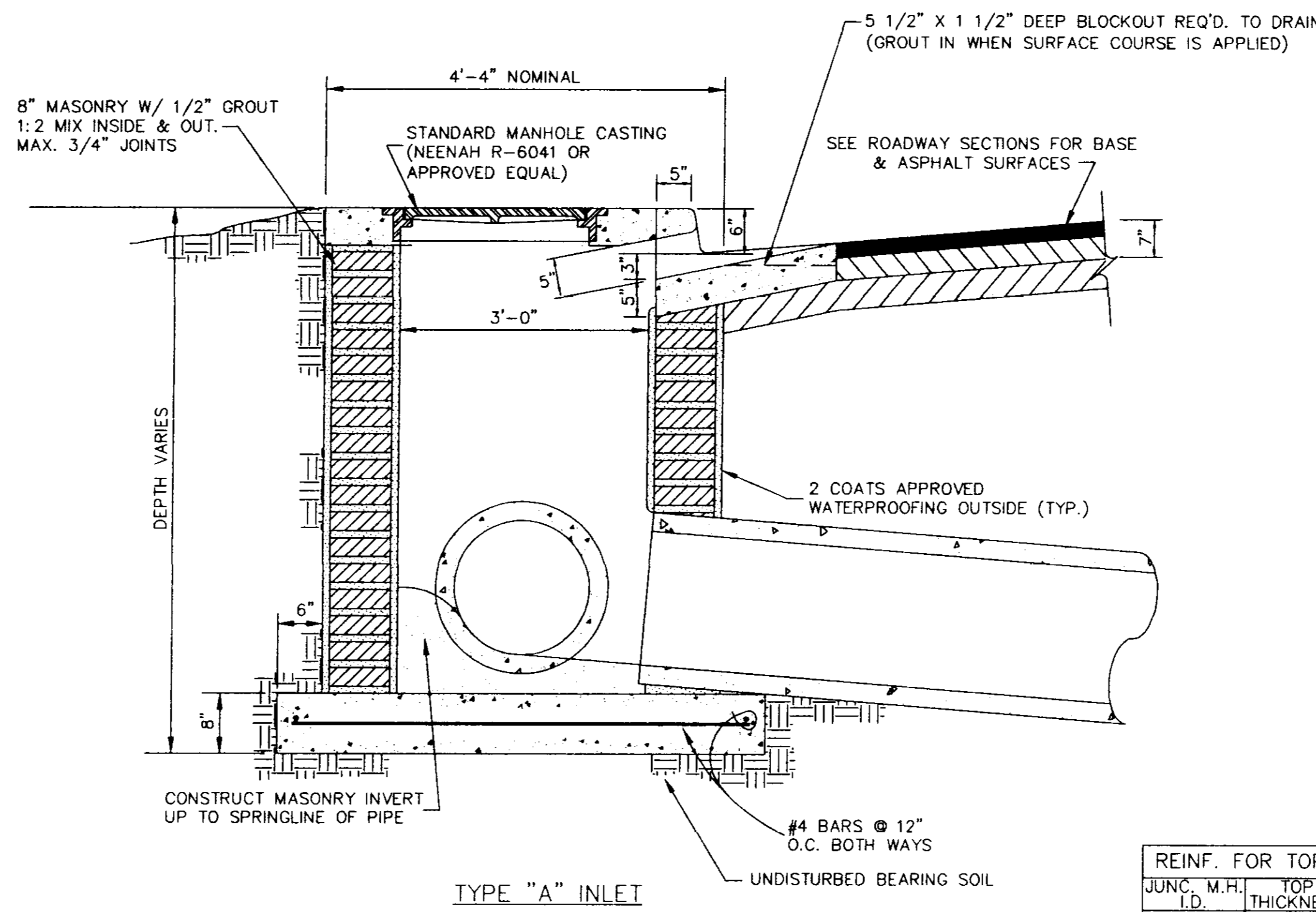
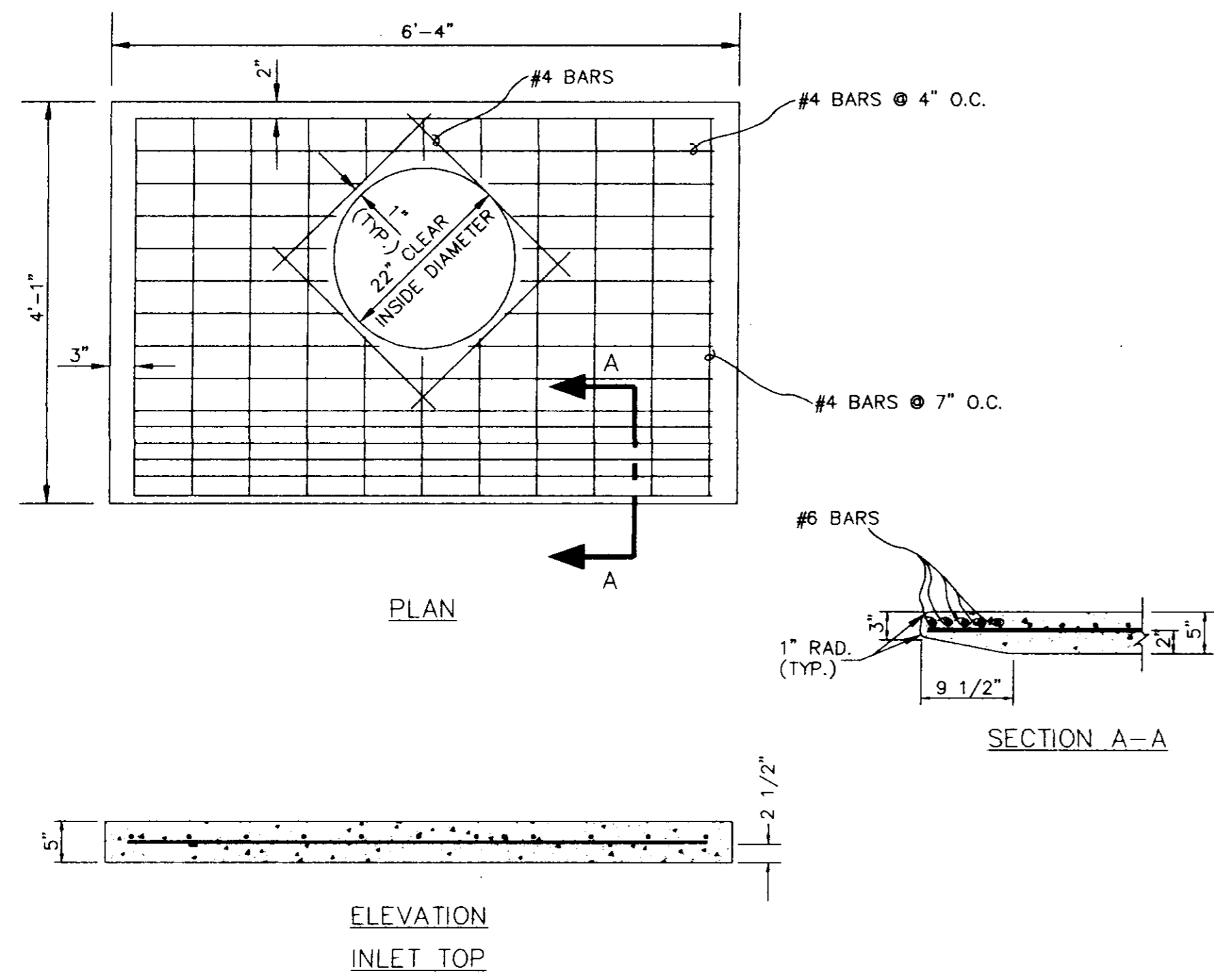
SPILLWAY ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)

LANDSCAPE DETAILS

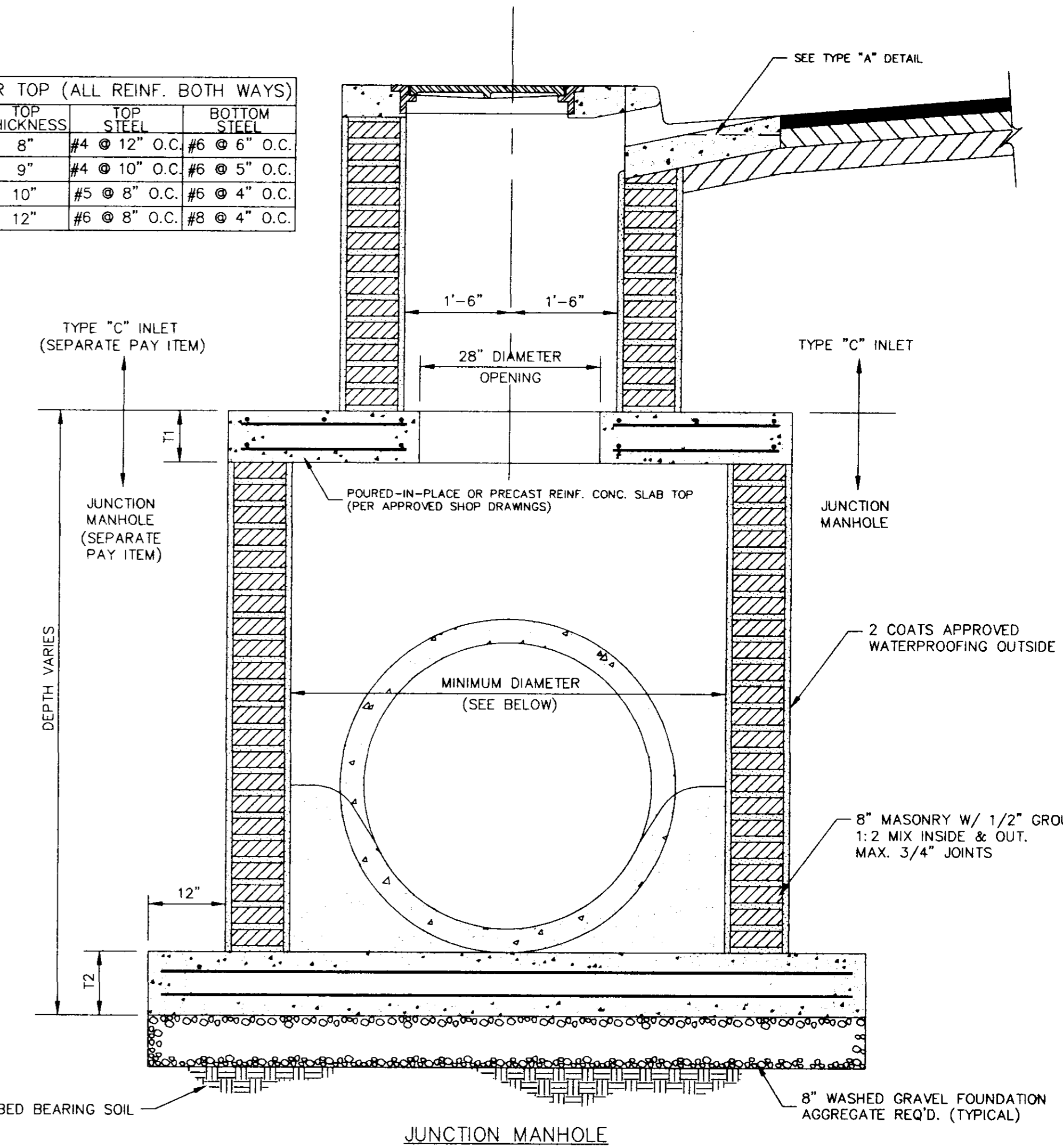
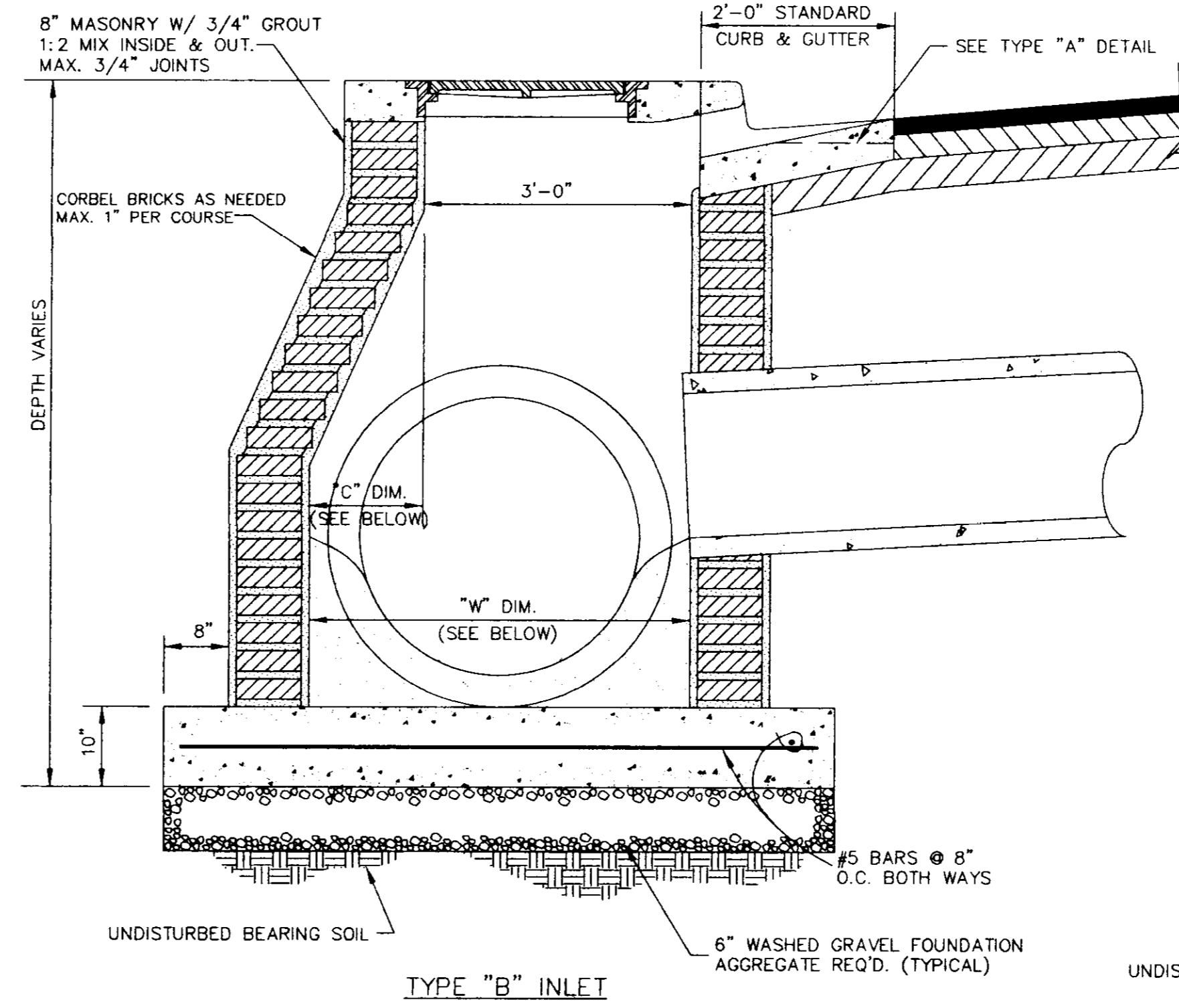
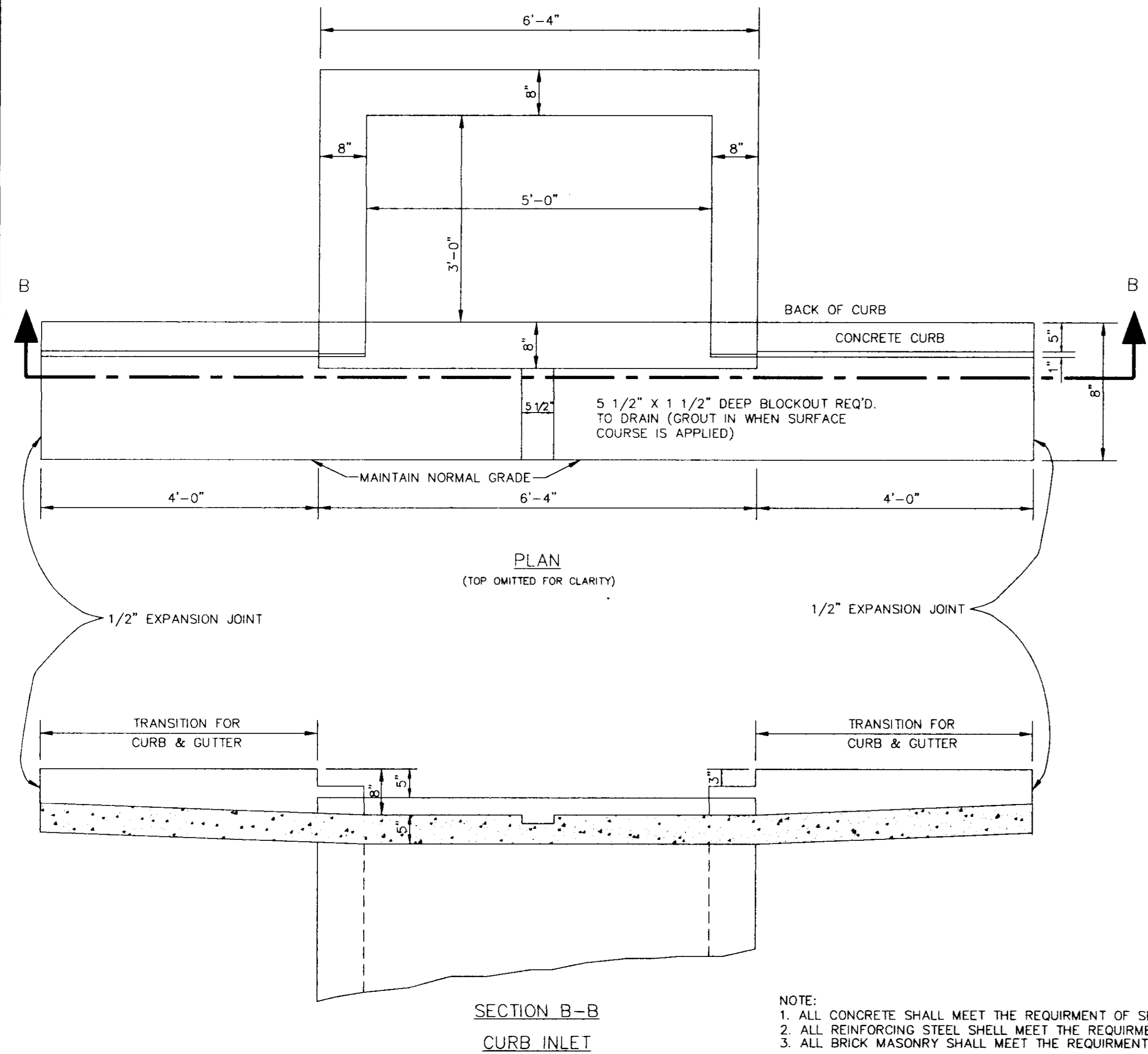
CITY OF RIDGELAND, MISSISSIPPI

WAGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: T.J.	DATE: 7-9-97	WORKING NUMBER 11 OF 11
REVIEWED BY: B.S.	SCALE: AS SHOWN	SHEET NUMBER 53



JUNC. M.H. I.D.	TOP THICKNESS	TOP STEEL	BOTTOM STEEL
72"	8"	#4 @ 12" O.C.	#6 @ 6" O.C.
84"	9"	#4 @ 10" O.C.	#6 @ 5" O.C.
96"	10"	#5 @ 8" O.C.	#6 @ 4" O.C.
120"	12"	#6 @ 8" O.C.	#8 @ 4" O.C.



- NOTE:
1. ALL CONCRETE SHALL MEET THE REQUIREMENT OF SECTION 601.
 2. ALL REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 602.
 3. ALL BRICK MASONRY SHALL MEET THE REQUIREMENTS OF SECTION 611.
 4. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF SECTION 604.
 5. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "A" SINGLE INLETS ARE TO BE INCLUDED IN BID ITEM #58, PAY ITEM #907-604-C-PP.
 6. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "A" DOUBLE INLETS ARE TO BE INCLUDED IN BID ITEM #59, PAY ITEM #907-604-D-PP.
 7. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "C" DOUBLE INLETS ARE TO BE INCLUDED IN BID ITEM #60, PAY ITEM #907-604-E-PP.

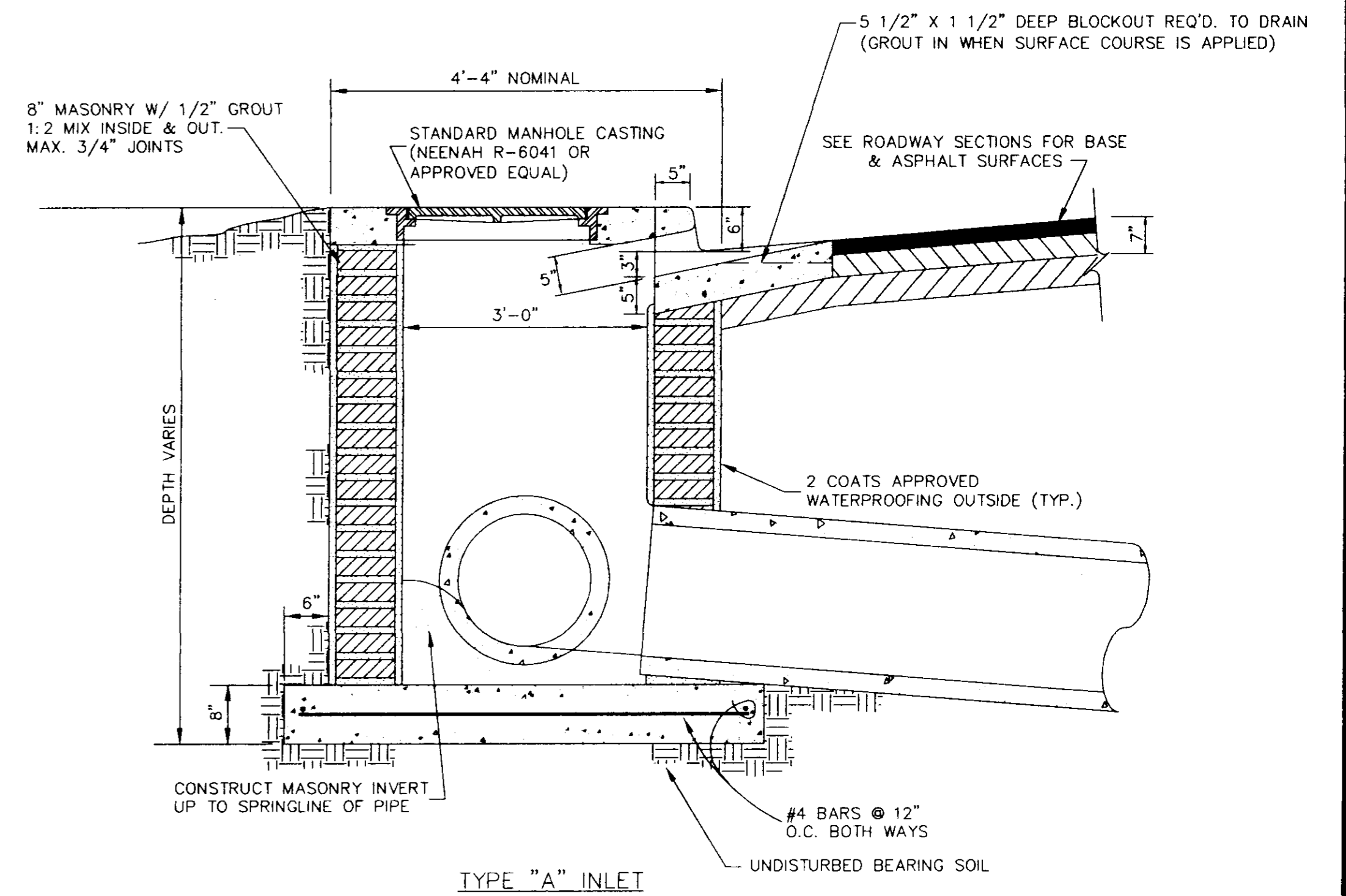
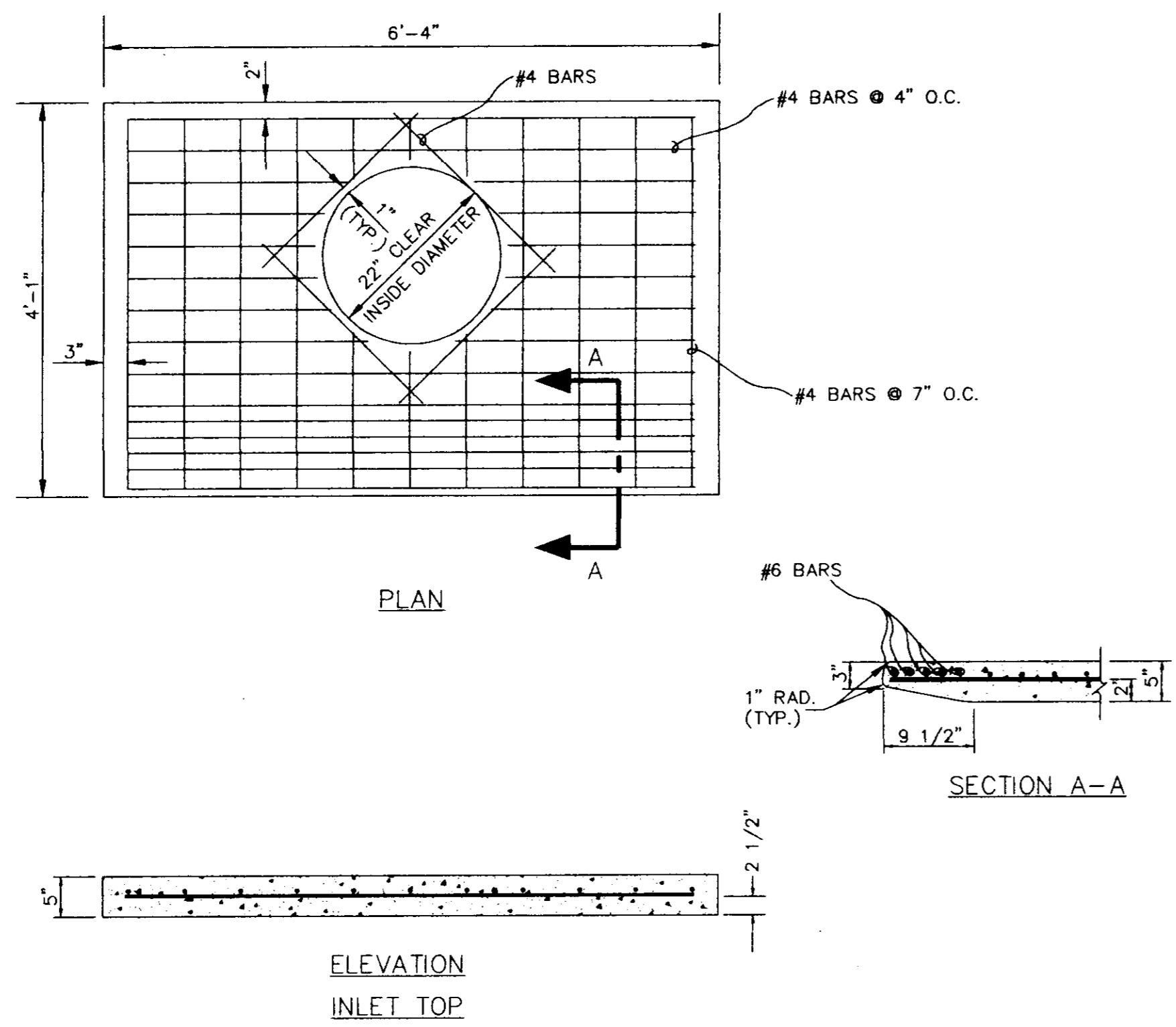
PIPE I.D.	PIPE O.D.	DIM. "W"	DIM. "C"	MIN. COURSES CORBELLED
24"	33"	37"	4"	4
27"	36"	40"	4"	4
30"	39 1/2"	44"	8"	8
36"	45 1/2"	50"	14"	14

PIPE I.D.	PIPE O.D.	MIN. M.H. DIA. I.D.	MIN. T1	MIN. T2	REINF. FOR FOUNDATION
42"	52 1/2"	72"	8"	10"	#6 @ 10" O.C.
48"	59 1/2"	72"	8"	10"	#6 @ 10" O.C.
54"	66 1/2"	84"	9"	12"	#6 @ 8" O.C.
60"	76"	84"	9"	12"	#6 @ 8" O.C.
65"x40"	76"	84"	9"	12"	#6 @ 8" O.C.
73"x45"	85"	96"	10"	12"	#6 @ 6" O.C.
88"x54"	102"	120"	12"	16"	#8 @ 6" O.C.

SPILLWAY ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)
INLET DETAILS - STANDARD STORM SEWER
CITY OF RIDGELAND, MISSISSIPPI

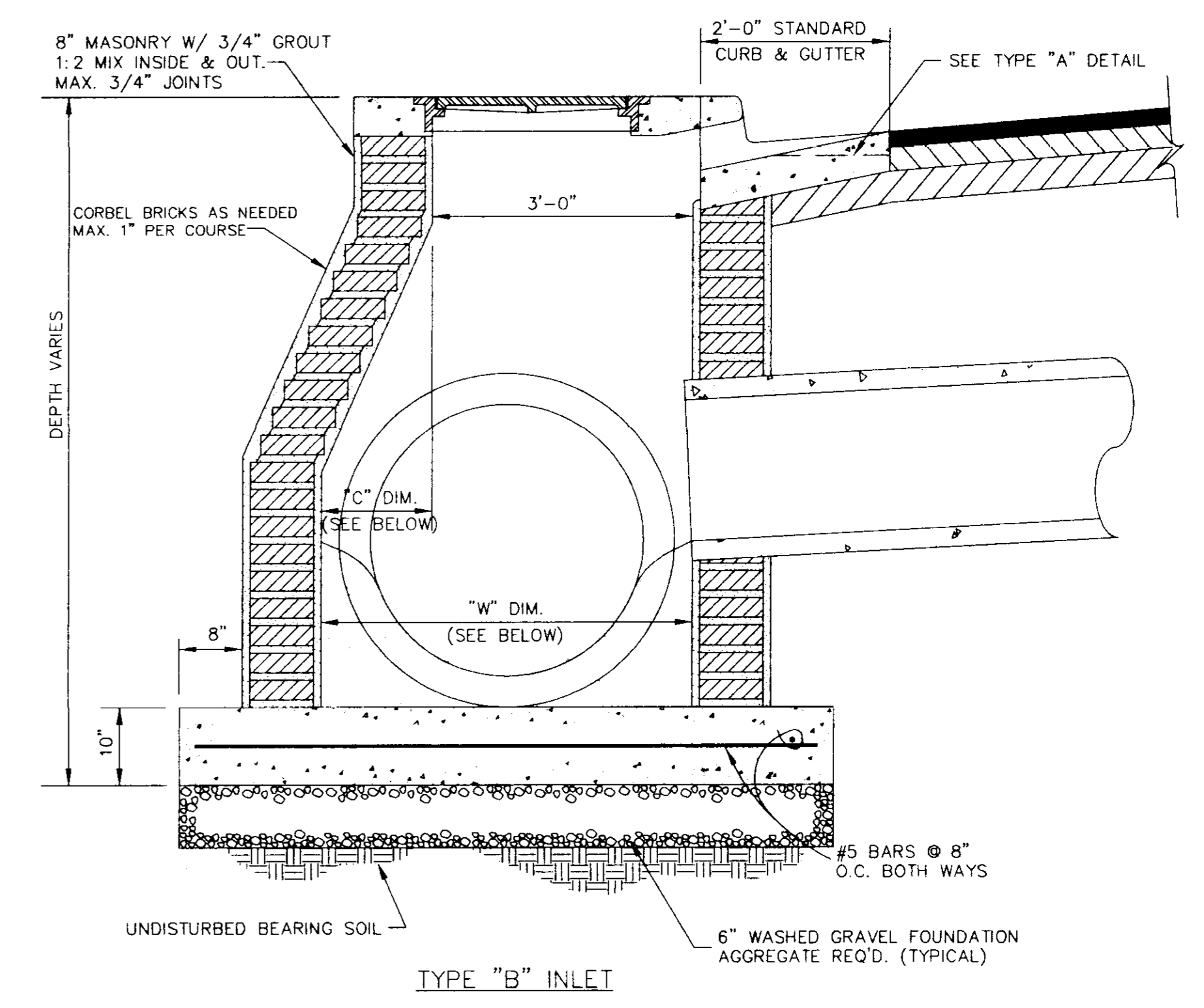
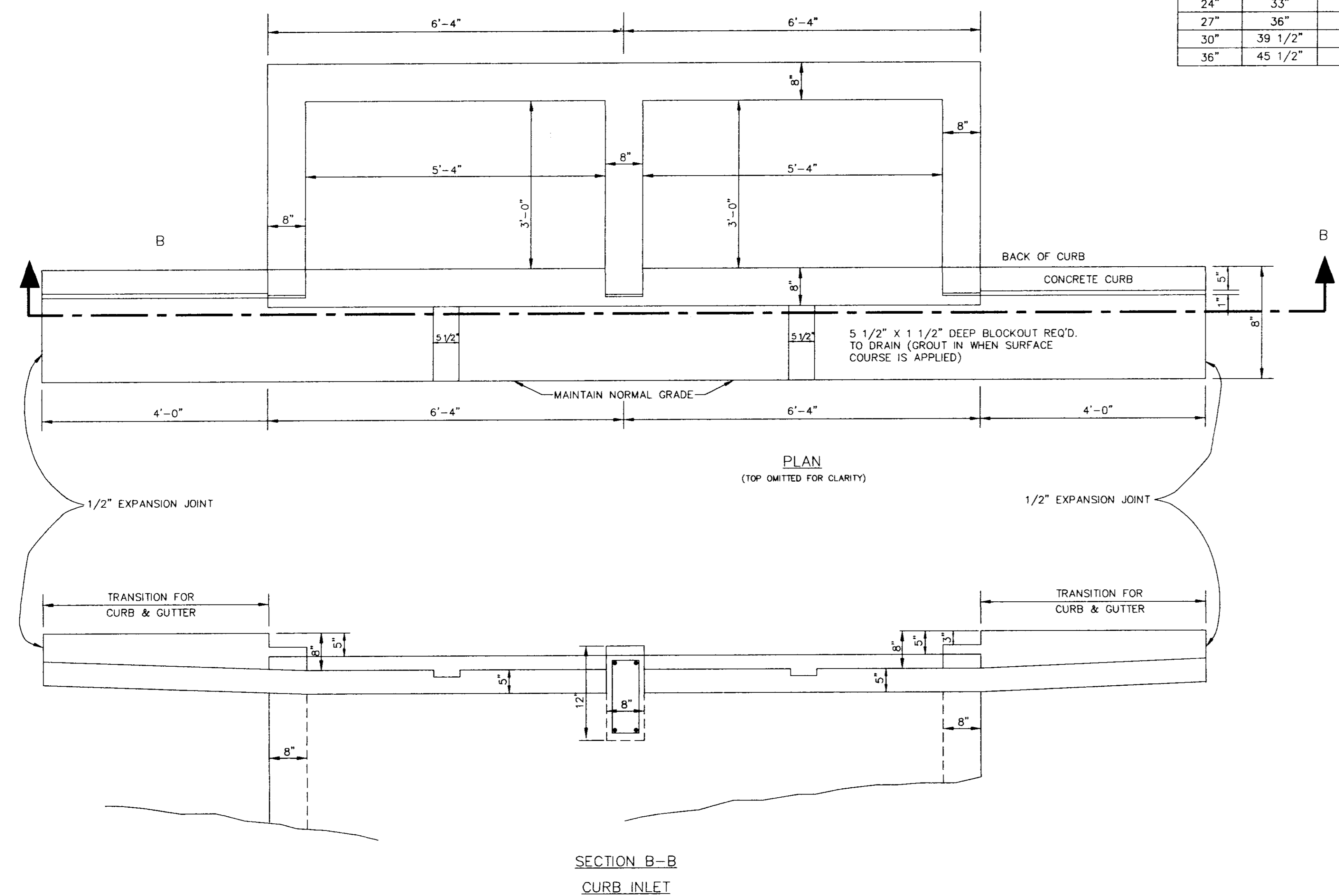
WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: DATE: 5-30-97 WORKING NUMBER
REVIEWED BY: J.H. SCALE: N.T.S. SHEET NUMBER 54



DIMENSIONS FOR TYPE "B" INLET

PIPE I.D.	PIPE O.D.	DIM. "W"	DIM. "C"	MIN. COURSES CORBELLED
24"	33"	37"	4"	4
27"	36"	40"	4"	4
30"	39 1/2"	44"	8"	8
36"	45 1/2"	50"	14"	14



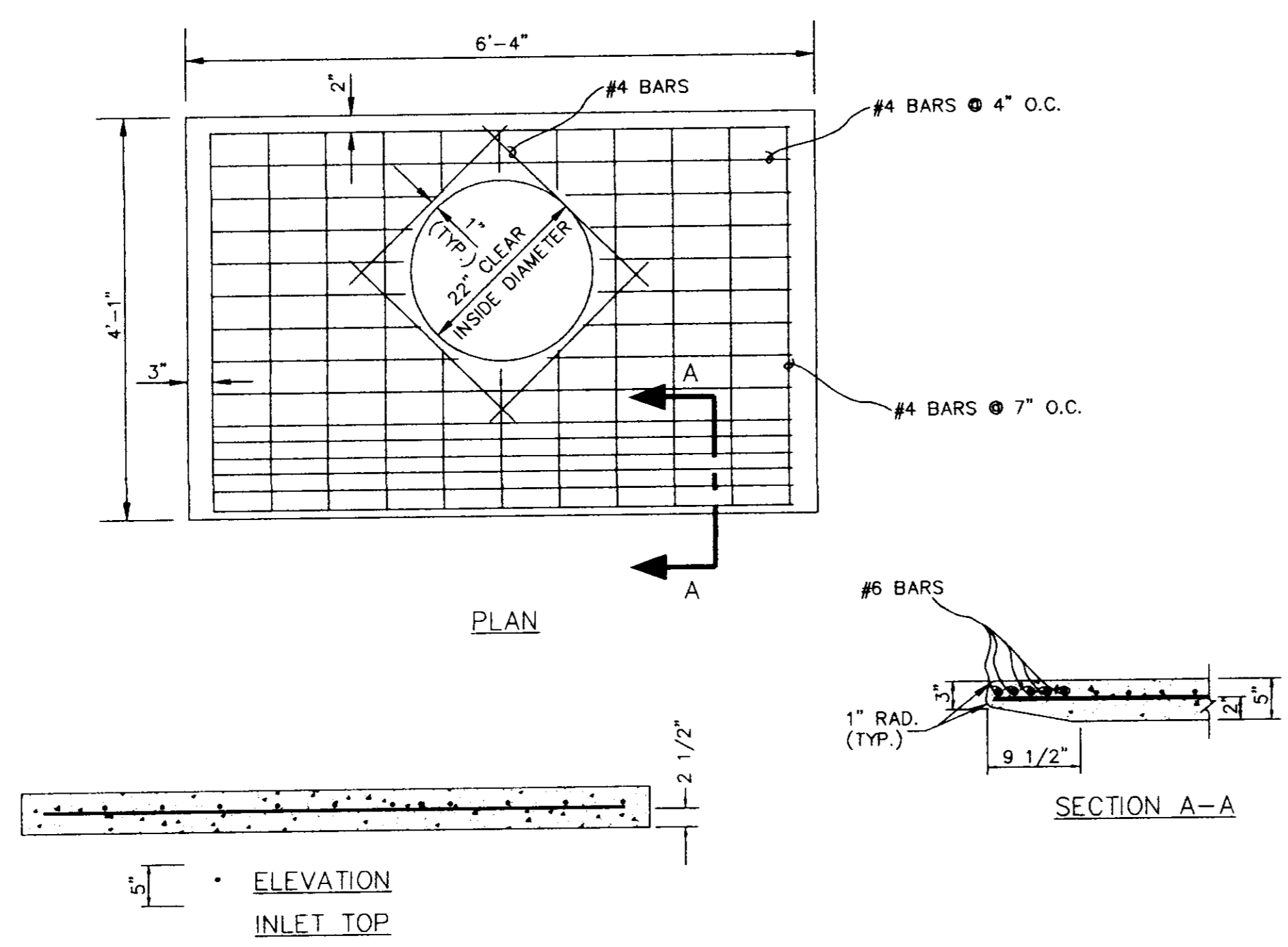
- NOTE:
1. ALL CONCRETE SHALL MEET THE REQUIREMENT OF SECTION 601.
 2. ALL REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 602.
 3. ALL BRICK MASONRY SHALL MEET THE REQUIREMENTS OF SECTION 611.
 4. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF SECTION 604.
 5. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "A" SINGLE INLETS ARE TO BE INCLUDED IN BID ITEM #58, PAY ITEM #907-604-C-PP.
 6. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "A" DOUBLE INLETS ARE TO BE INCLUDED IN BID ITEM #59, PAY ITEM #907-604-D-PP.
 7. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "C" DOUBLE INLETS ARE TO BE INCLUDED IN BID ITEM #60, PAY ITEM #907-604-E-PP.

SPILLWAY ROAD IMPROVEMENTS
 F.A.U.P. PROJECT NO. STP-6945(1)
 DOUBLE INLET DETAILS - STANDARD STORM SEWER
 CITY OF RIDGELAND, MISSISSIPPI

WAGGONER ENGINEERING, INC.
 Consulting Engineers - Jackson, Mississippi

DRAWN BY:	DATE: 5-30-97	WORKING NUMBER
REVIEWED BY: JHL	SCALE: N.T.S.	SHEET NUMBER 55

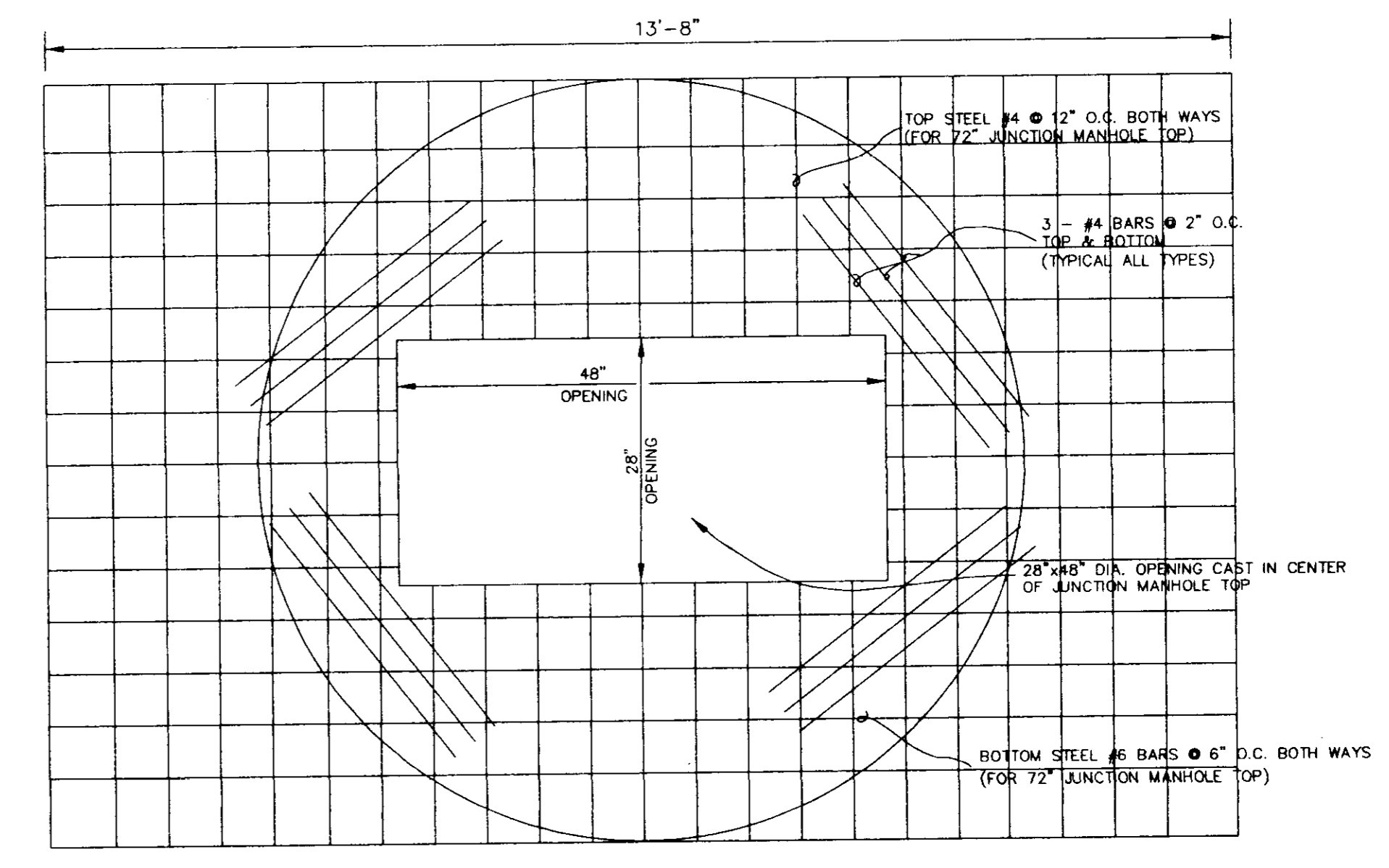
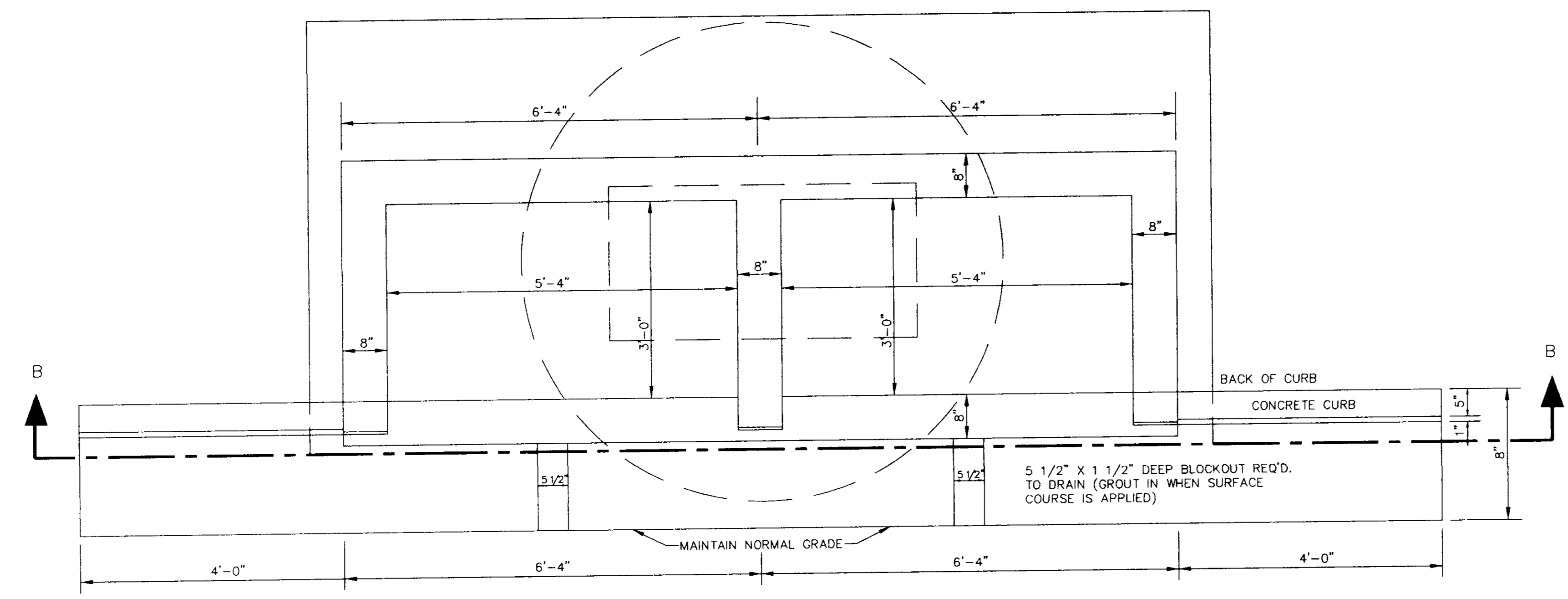
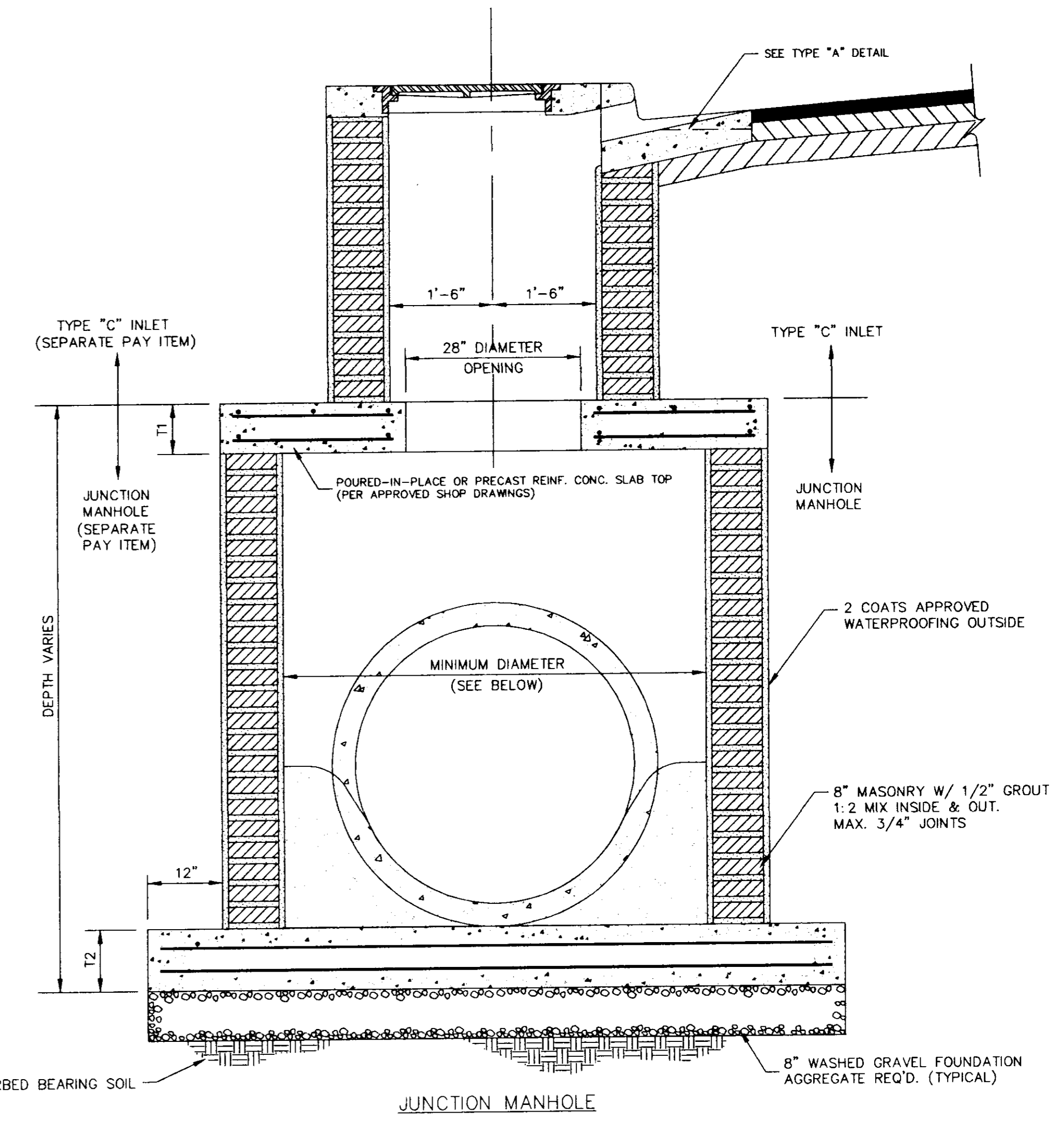
C:\P\84150\INLET



REINF. FOR TOP (ALL REINF. BOTH WAYS)			
JUNC. M.H. I.D.	TOP THICKNESS	TOP STEEL	BOTTOM STEEL
72"	8"	#4 @ 12" O.C.	#6 @ 6" O.C.
84"	9"	#4 @ 10" O.C.	#6 @ 5" O.C.
96"	10"	#5 @ 8" O.C.	#6 @ 4" O.C.
120"	12"	#6 @ 8" O.C.	#8 @ 4" O.C.

DIMENSIONS FOR JUNCTION MANHOLES					
PIPE I.D.	PIPE O.D.	MIN. M.H. DIA. I.D.	MIN. T1	MIN. T2	REINF. FOR FOUNDATION
42"	52 1/2"	72"	8"	10"	#6 @ 10" O.C.
48"	59 1/2"	72"	8"	10"	#6 @ 10" O.C.
54"	66 1/2"	84"	9"	12"	#6 @ 8" O.C.
60"	76"	84"	9"	12"	#6 @ 8" O.C.
65"x40"	76"	84"	9"	12"	#6 @ 8" O.C.
73"x45"	85"	96"	10"	12"	#6 @ 6" O.C.
88"x54"	102"	120"	12"	16"	#8 @ 6" O.C.

NOTE: ALL REINFORCING BOTH WAYS EACH FACE

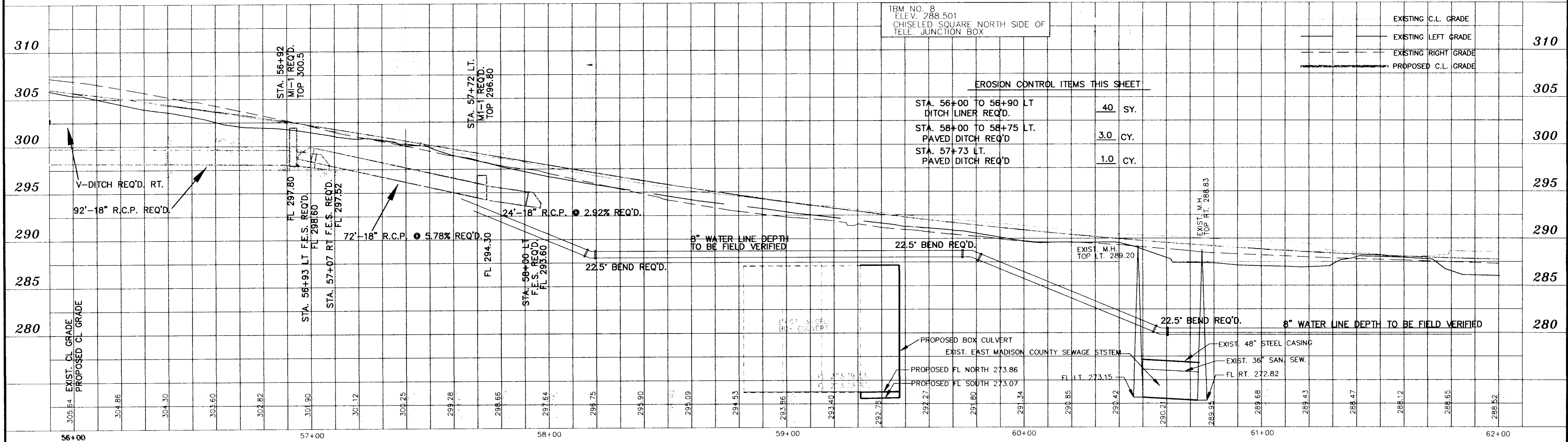
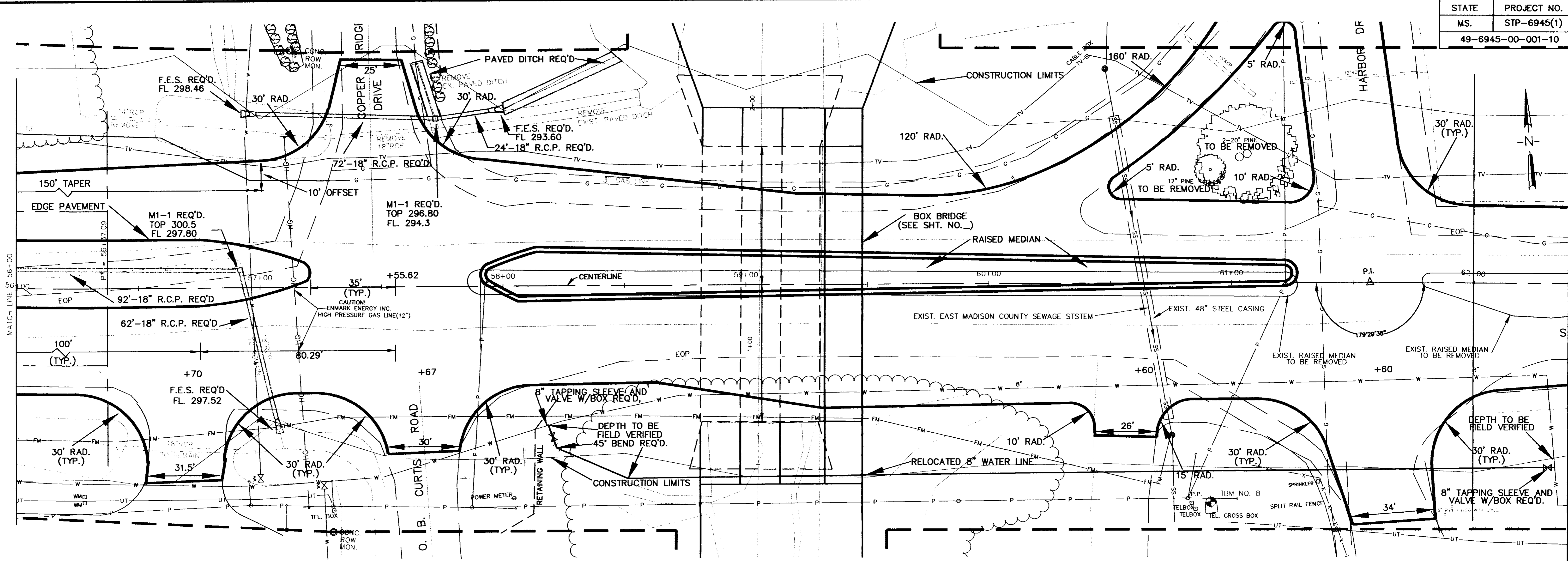


2. ALL REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 602.
- NOTE:
1. ALL CONCRETE SHALL MEET THE REQUIREMENT OF SECTION 601.
 3. ALL BRICK MASONRY SHALL MEET THE REQUIREMENTS OF SECTION 611.
 4. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF SECTION 604.
 5. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "A" SINGLE INLETS ARE TO BE INCLUDED IN BID ITEM #58, PAY ITEM #907-604-C-PP.
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 7. ALL ITEM SHOWN ON THIS SHEET RELATING TO TYPE "C" DOUBLE INLETS ARE TO BE INCLUDED IN BID ITEM #60, PAY ITEM #907-604-E-PP.

SPILLWAY ROAD IMPROVEMENTS
F.A.U.P. PROJECT NO. STP-6945(1)
INLET DETAILS - STANDARD STORM SEWER
CITY OF RIDGELAND, MISSISSIPPI

WAGGONER ENGINEERING, INC.
Consulting Engineers - Jackson, Mississippi

DRAWN BY: DATE: 5-30-97 WORKING NUMBER
REVIEWED BY: JH. SCALE: N.T.S. SHEET NUMBER 56



TBM NO. 8
ELEV. 288.501
CHISELED SQUARE NORTH SIDE OF
TELE. JUNCTION BOX

EROSION CONTROL ITEMS THIS SHEET	
STA. 56+00 TO 56+90 LT DITCH LINER REQ'D.	40 SY.
STA. 58+00 TO 58+75 LT. PAVED DITCH REQ'D	3.0 CY.
STA. 57+73 LT. PAVED DITCH REQ'D	1.0 CY.

NO.	DATE	REVISIONS

DESIGNED	DATE
DRAWN	SCALE
BY	1" = 20' HORT.
	1" = 5' VERT.

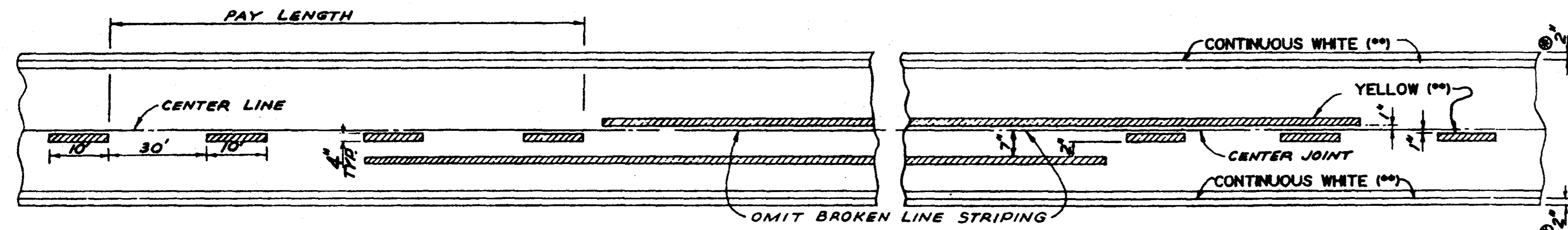


WATER LINE RELOCATION

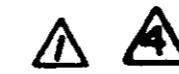
PROJECT NO. STP-6945(1)/49-6945-00-001-10
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

ACAD PATH ROUTE C:\P\94150E\WATERSHT	WORKING NUMBER
WEI JOB NO. 94-150E	SHEET NUMBER 58

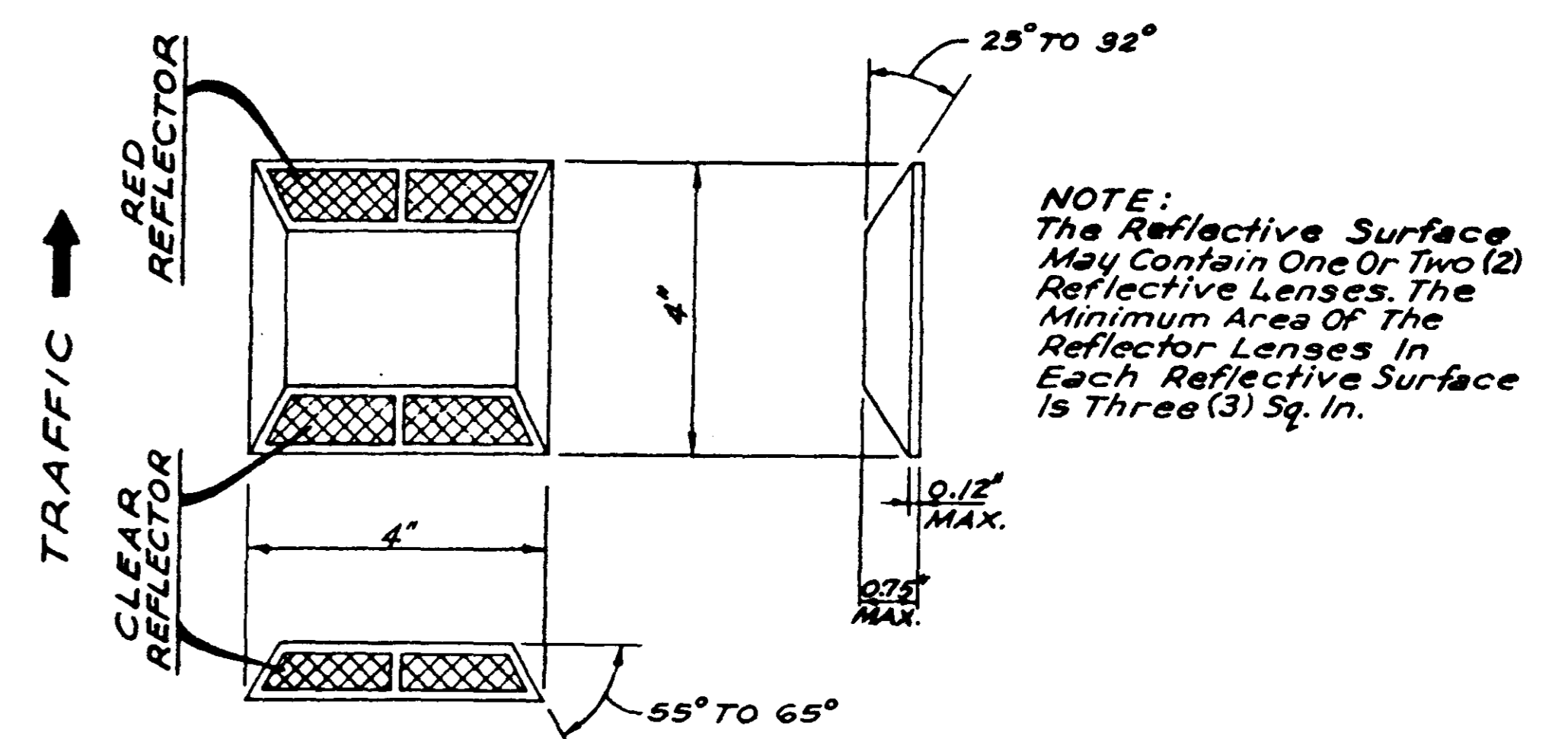
C:\MSR\PROJ\94150E\WATERSHT Thu Jul 10 14:10:47 1997



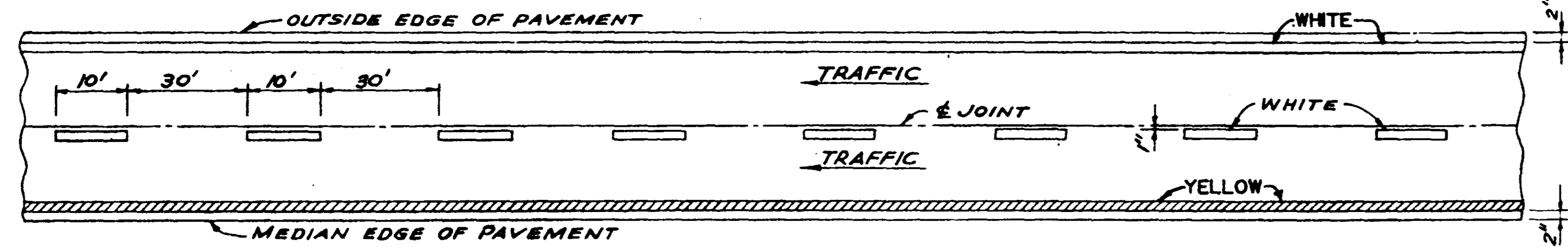
DETAIL OF TWO-WAY TRAFFIC PAVEMENT MARKING
(ASPHALT OR CONCRETE PAVEMENT)



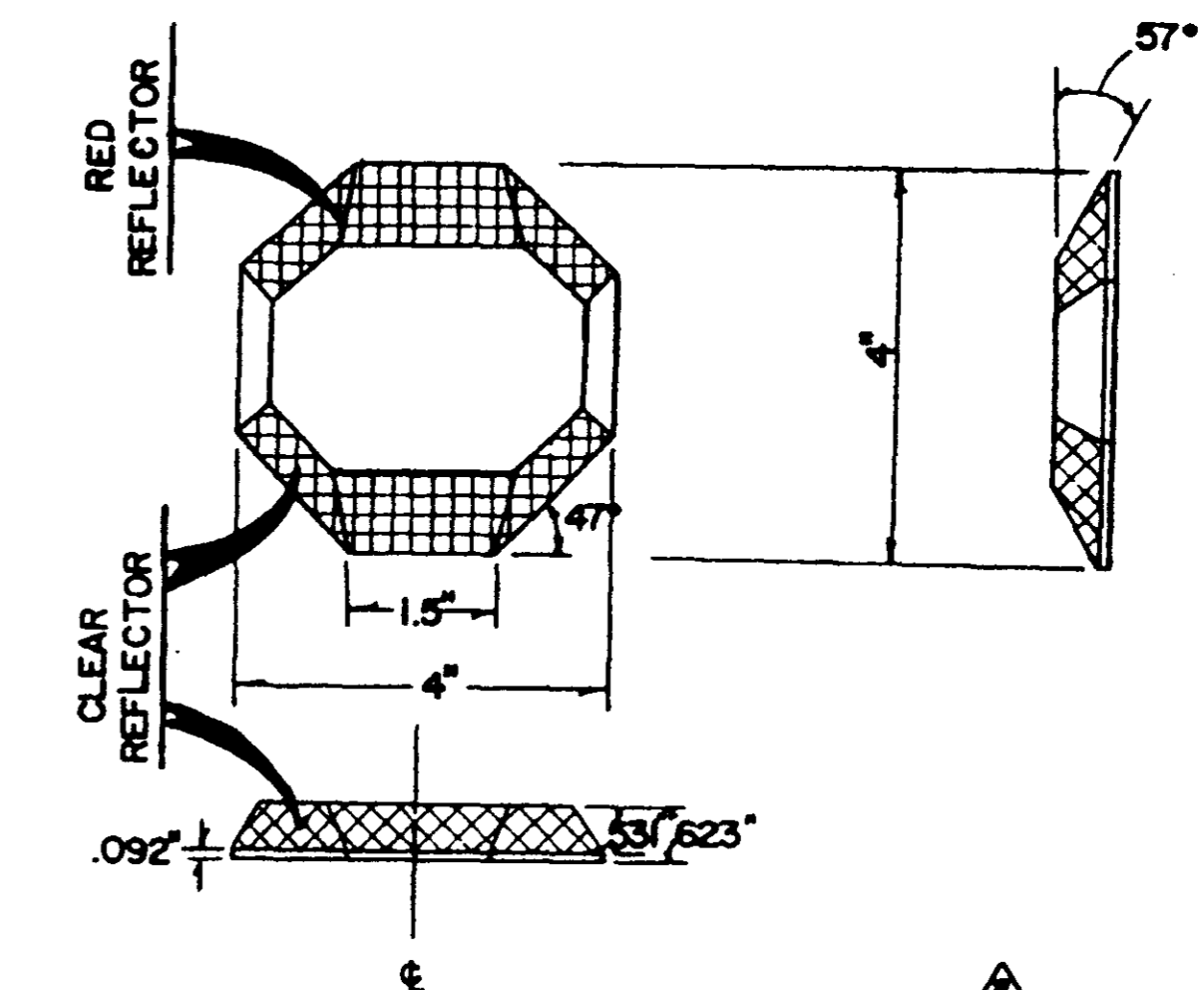
* 2" UNLESS SHOWN ELSEWHERE ON THE PLANS.
** EDGE STRIPE SHALL BE SAME MATERIAL AS CENTERLINE STRIPE (PAINT OR PLASTIC, AS INDICATED IN PAY ITEMS).



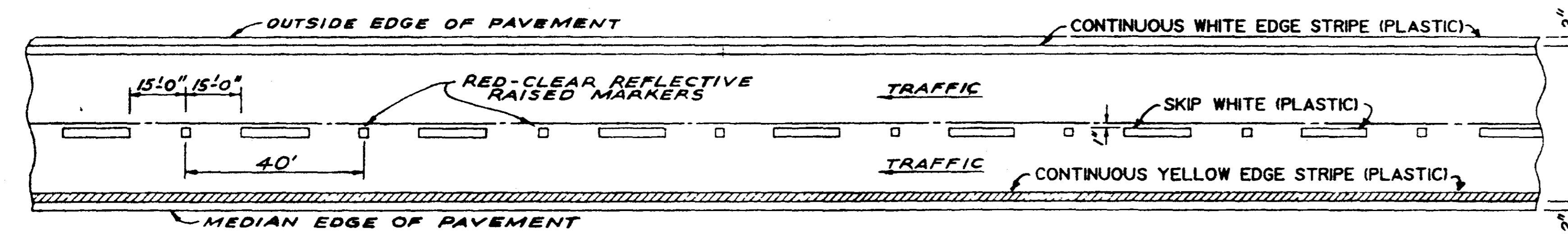
DETAIL OF REFLECTIVE MARKERS (OPTION 1)



DETAIL OF PAVEMENT MARKING ON FOUR-LANE WITH ONE-WAY TRAFFIC (PAINT)



DETAIL OF REFLECTIVE MARKERS (OPTION 2)



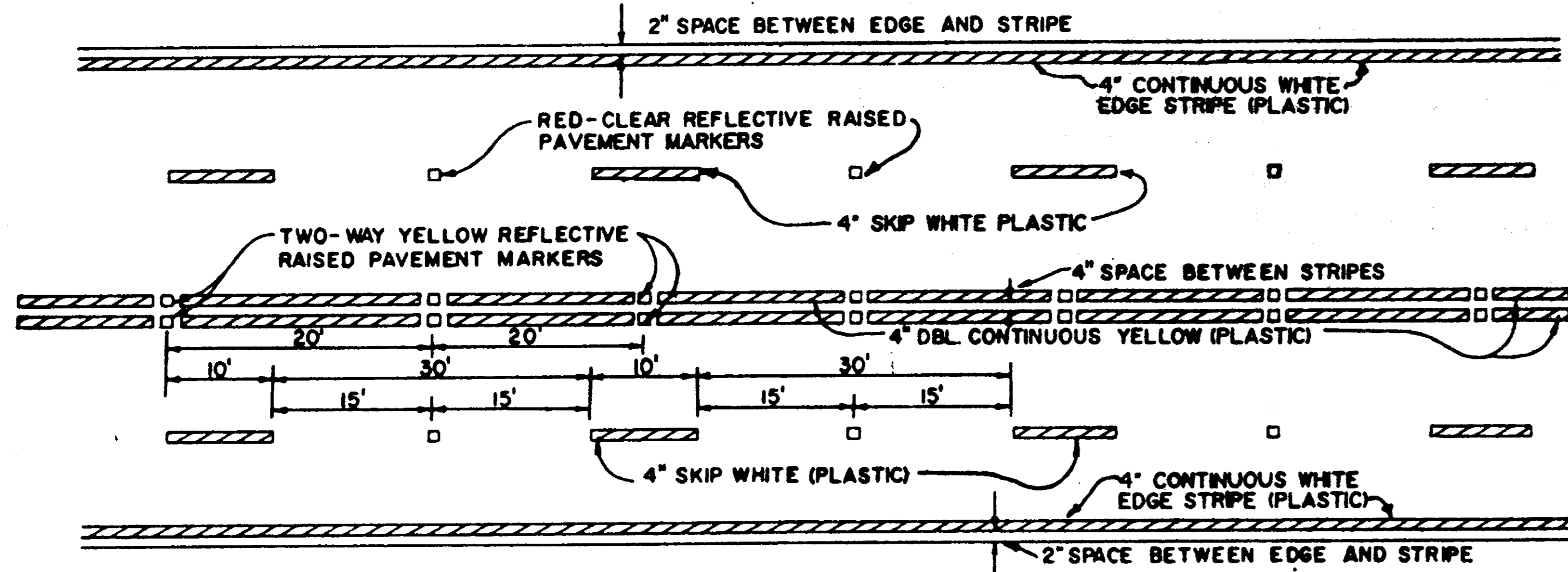
DETAIL OF PAVEMENT MARKING ON FOUR-LANE WITH ONE-WAY TRAFFIC (PLASTIC)

SPACINGS OF RAISED REFLECTIVE MARKERS

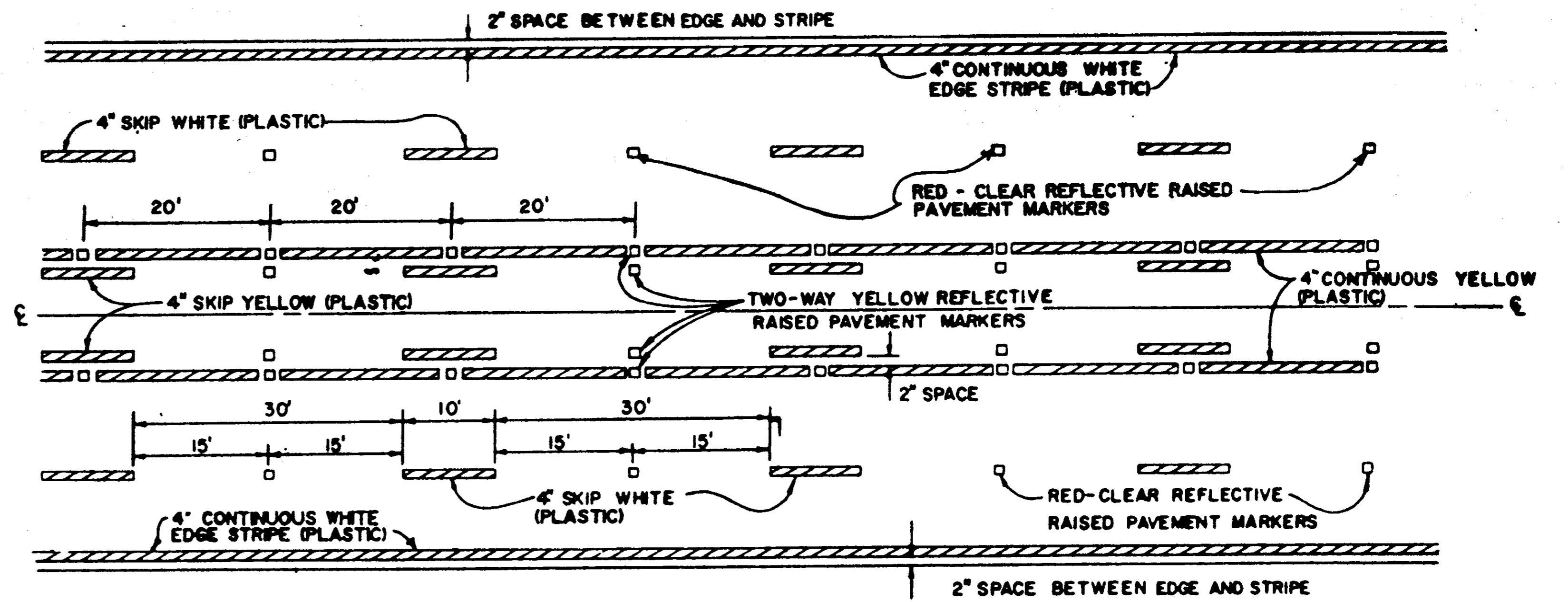
	URBAN AREA	RURAL AREA
TANGENT SECTIONS	40FT.	80FT.
HORIZONTAL CURVES	40FT.	40FT.
INTERCHANGE LIMITS	40FT.	*40FT.

* ON THE MAIN FACILITY, CLEAR-RED MARKERS ON 40FT. SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000 FT. IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.

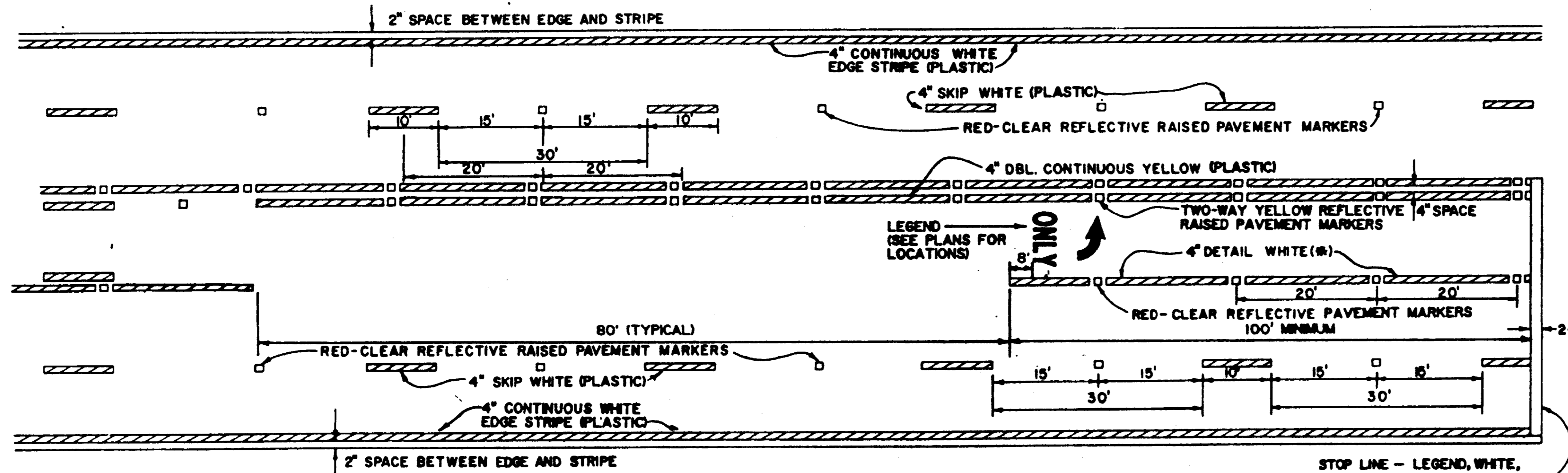
MISSISSIPPI STATE HIGHWAY DEPARTMENT			
PAVEMENT MARKING DETAILS			
FOR 2 AND 4 LANE DIVIDED ROADWAYS			
7-7-79 1-1-80 5-8-85 5-7-86	PLASTIC EDGE STRIPE AWK AWK AWK	DATE	REVISIONS
CHECKED			DATE 11-1-79
DRAWN			DATE 11-1-79
WORKING NUMBER			PM-1
SHEET NUMBER			112



TYPICAL DETAIL FOR STRIPING AND RAISED PAVEMENT MARKERS-4 LANE SECTION



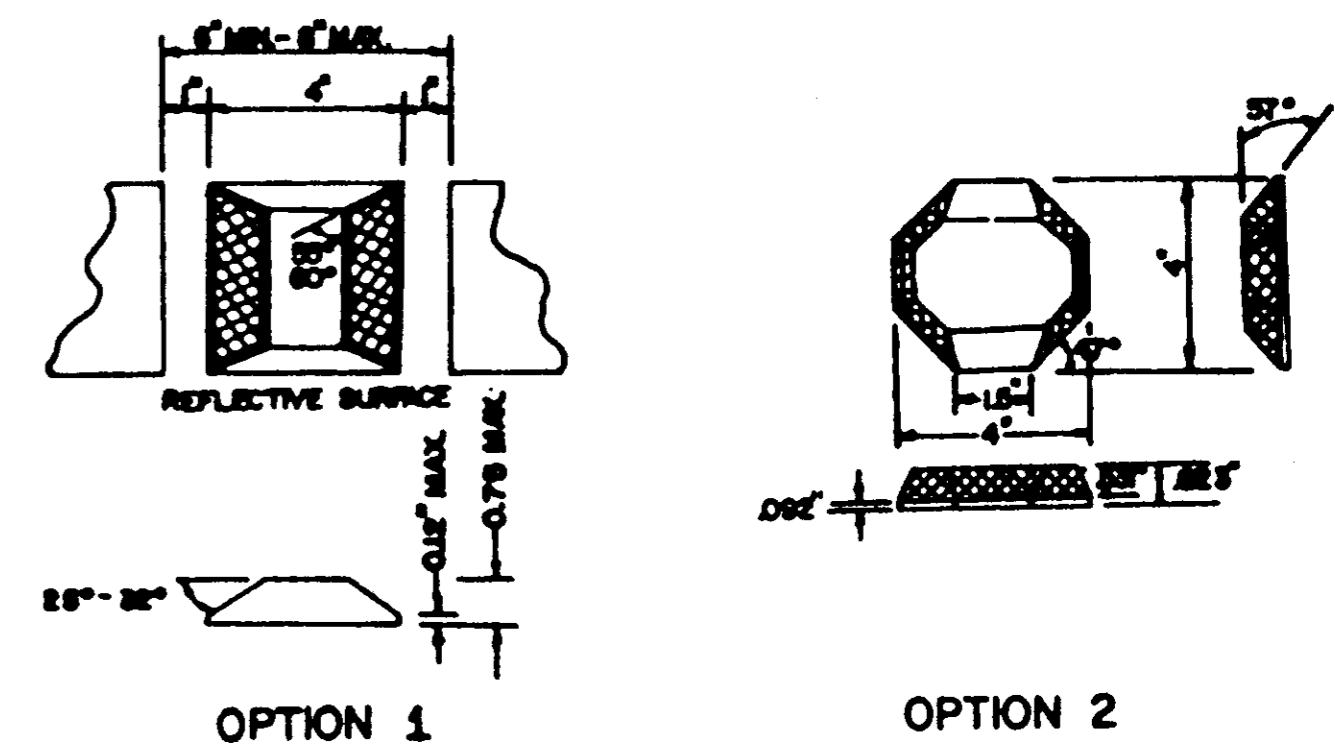
TYPICAL DETAIL FOR STRIPING AND RAISED PAVEMENT MARKERS - 5 LANE SECTION



TYPICAL DETAIL FOR STRIPING AND RAISED PAVEMENT MARKERS AT LEFT TURN LANES



* DETAIL IF $\leq 150'$
CONTINUOUS IF $> 150'$

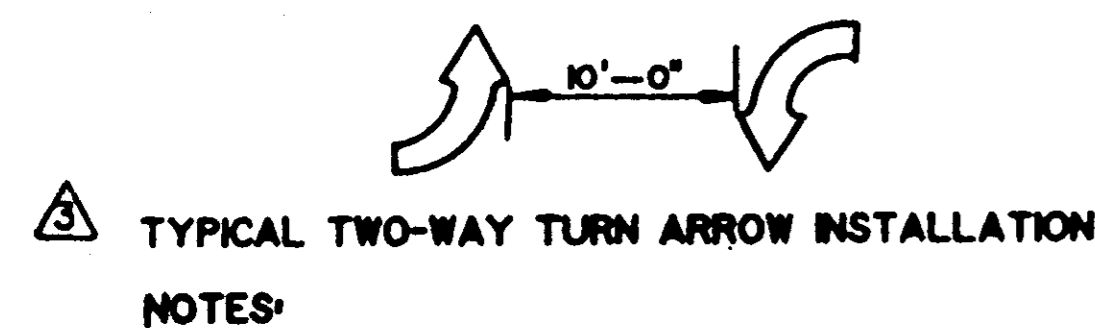


OPTION 1

OPTION 2

DETAIL OF REFLECTIVE MARKERS

NOTE: THE REFLECTIVE SURFACE MAY CONTAIN ONE (1) OR TWO (2) REFLECTOR LENSES. THE MIN. AREA IN EACH REFLECTIVE SURFACE IS THREE SQ. IN.

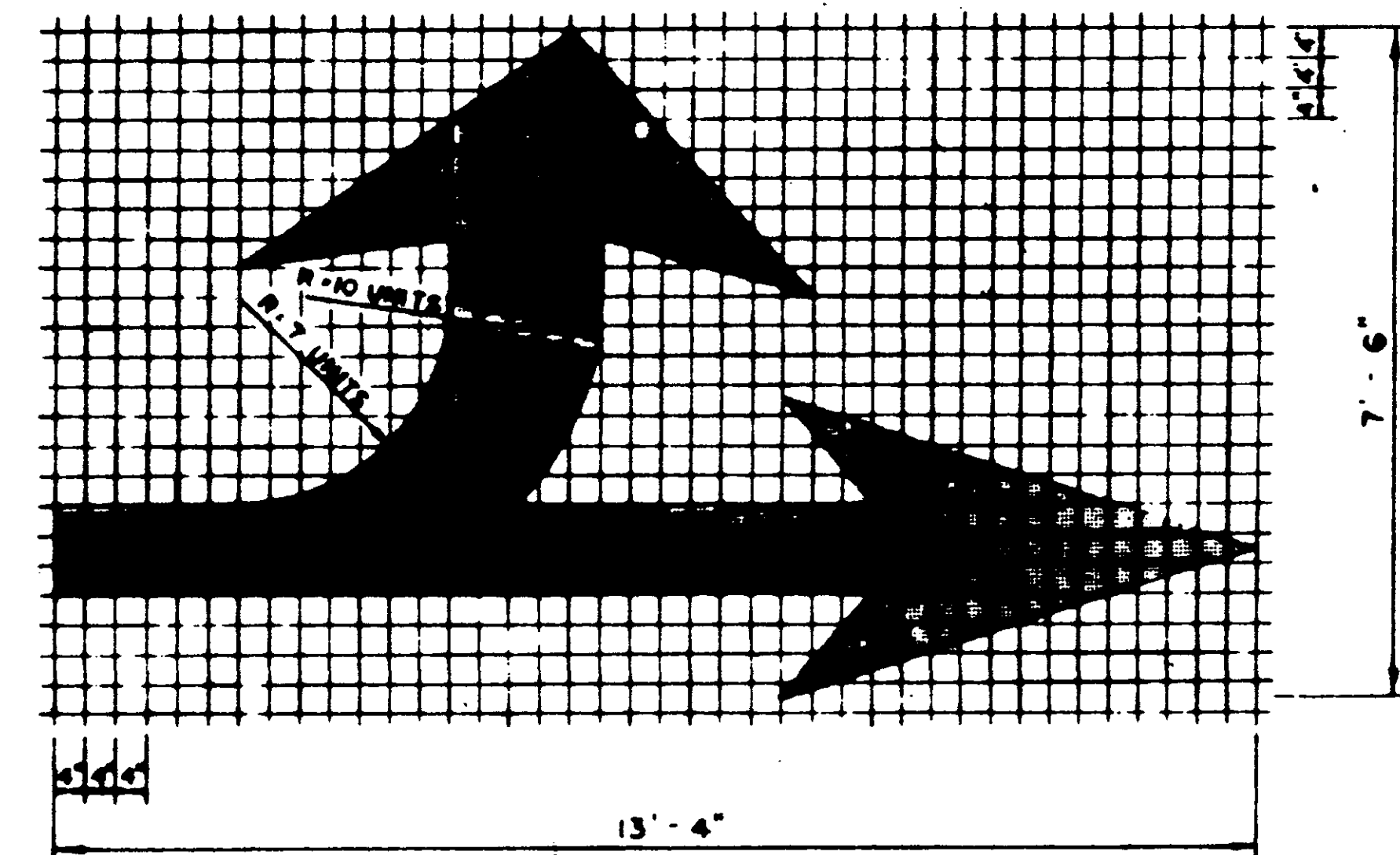
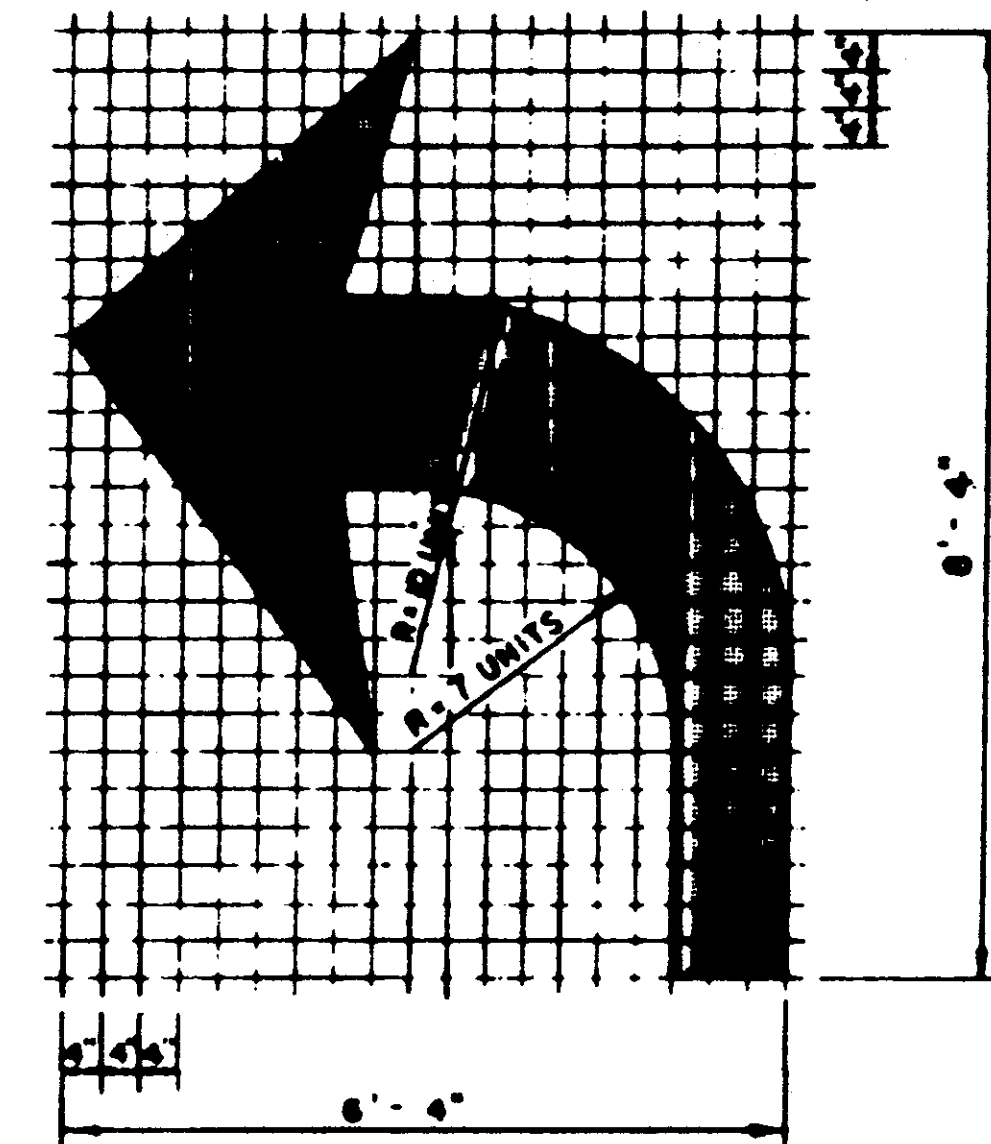
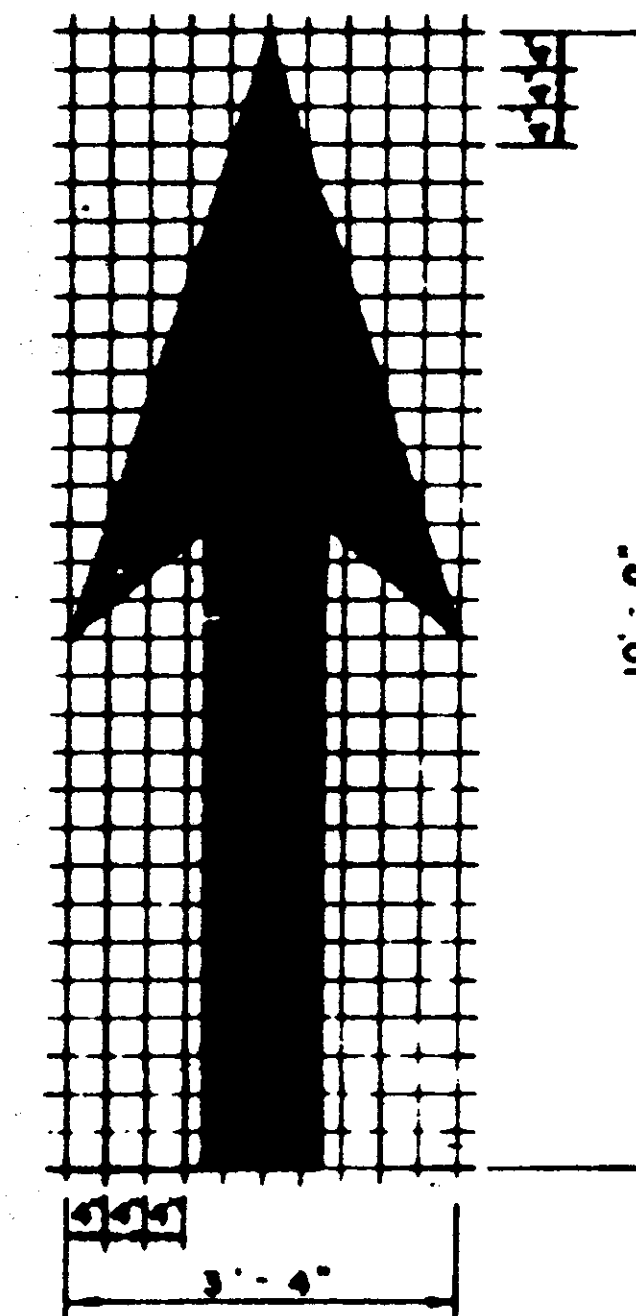
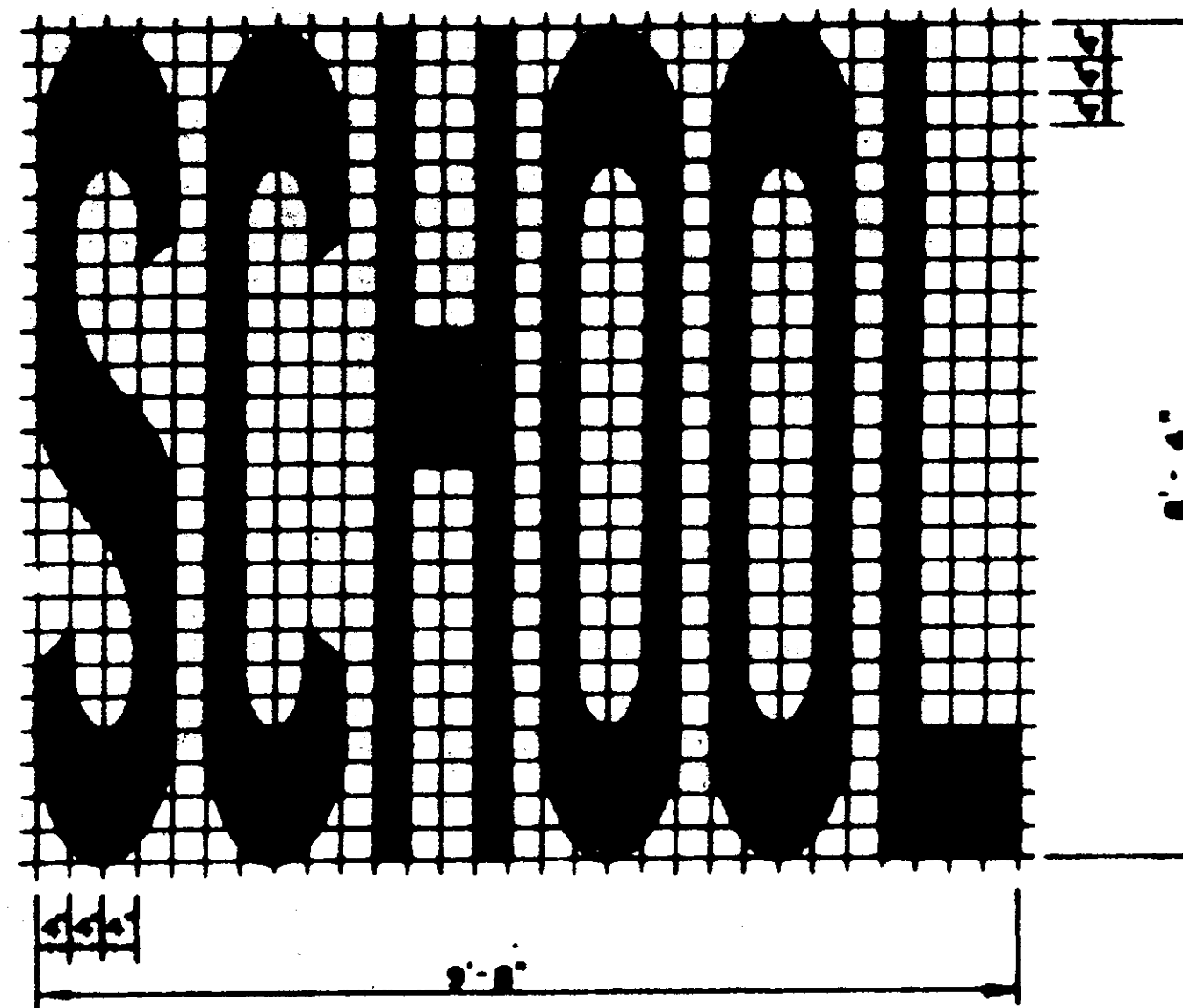
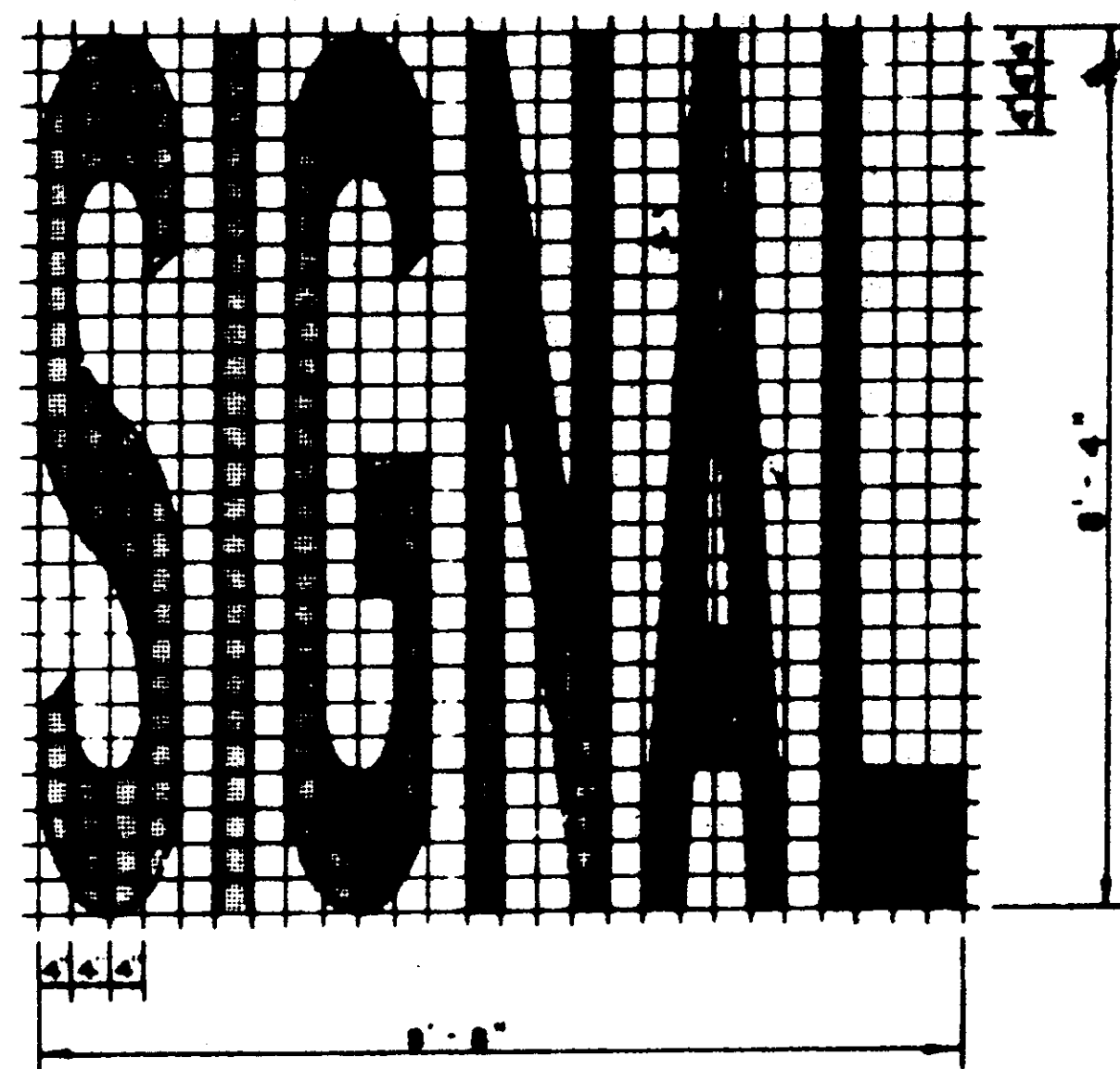
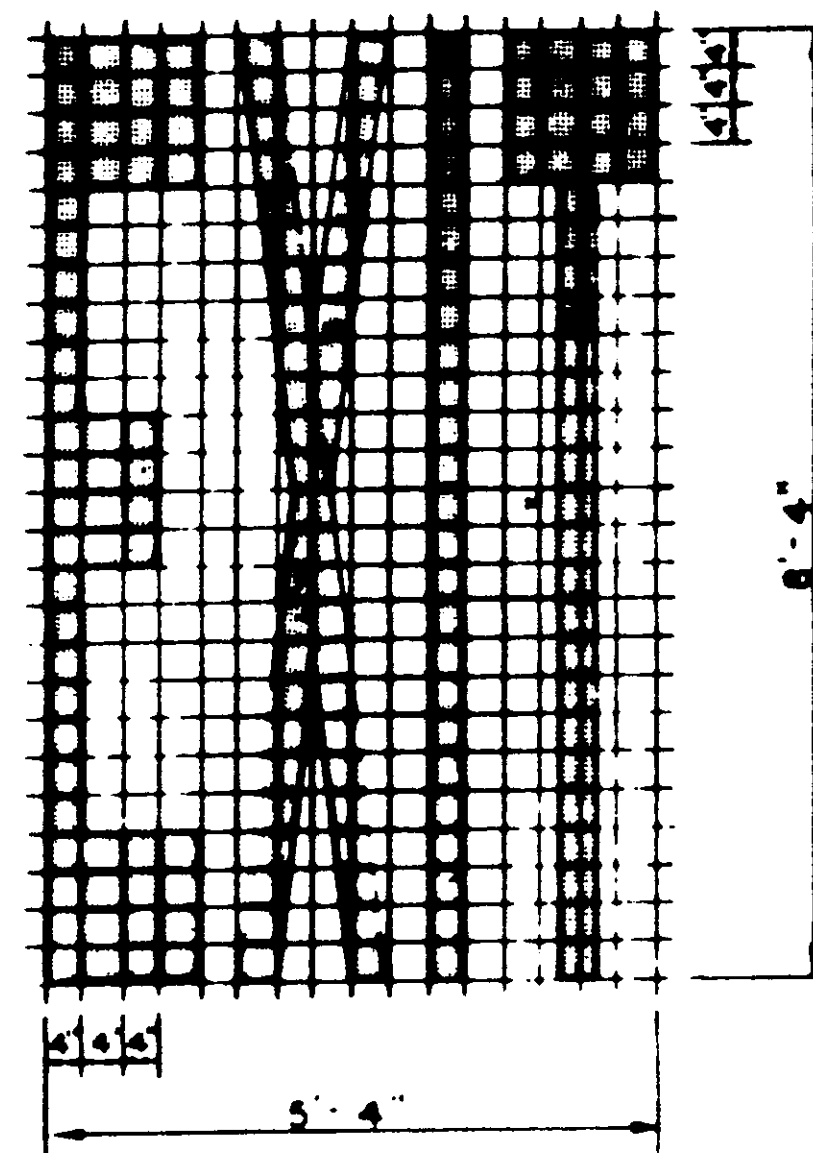


TYPICAL TWO-WAY TURN ARROW INSTALLATION

NOTES:

1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY.
2. IF SEGMENT IS LESS THAN 350', PLACE ONE SET OF ARROWS IN CENTER OF SEGMENT.
3. IF SEGMENT IS GREATER THAN 350', PLACE FIRST SET OF ARROWS 50'-100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS @ 250' O.C.

MISSISSIPPI STATE HIGHWAY DEPARTMENT			
PAVEMENT MARKING DETAILS			
FOR 4 AND 5 LANE			
UNDIVIDED ROADWAYS			
DESIGNED	DATE	TRACED	WORKING NUMBER
CHECKED	ISSUED	DATE	PM-2
ISSUED 11-1-79			SHEET NUMBER
			113



PAY QUANTITIES	
LEGEND/SYMBOL	AREA (SQ. FT.)
EXIT	18.5
SIGNAL	38.5
SCHOOL	38.5
THRU ARROW	12.3
TURN ARROW	16.4
COMB. TURN&THRU	27.5

GENERAL NOTES

ALL LEGEND INCLUDING TURN ARROWS SHALL BE HIGH PERFORMANCE MAT'L'S UNLESS OTHERWISE SHOWN ON THE PLANS.

TWO MONUMENTAL GAPS (CAUSED BY TEMPLATE CONNECTORS) OF 1/2" OR LESS, EXTENDING FULL WIDTH, MAY BE LEFT IN EACH LETTER.

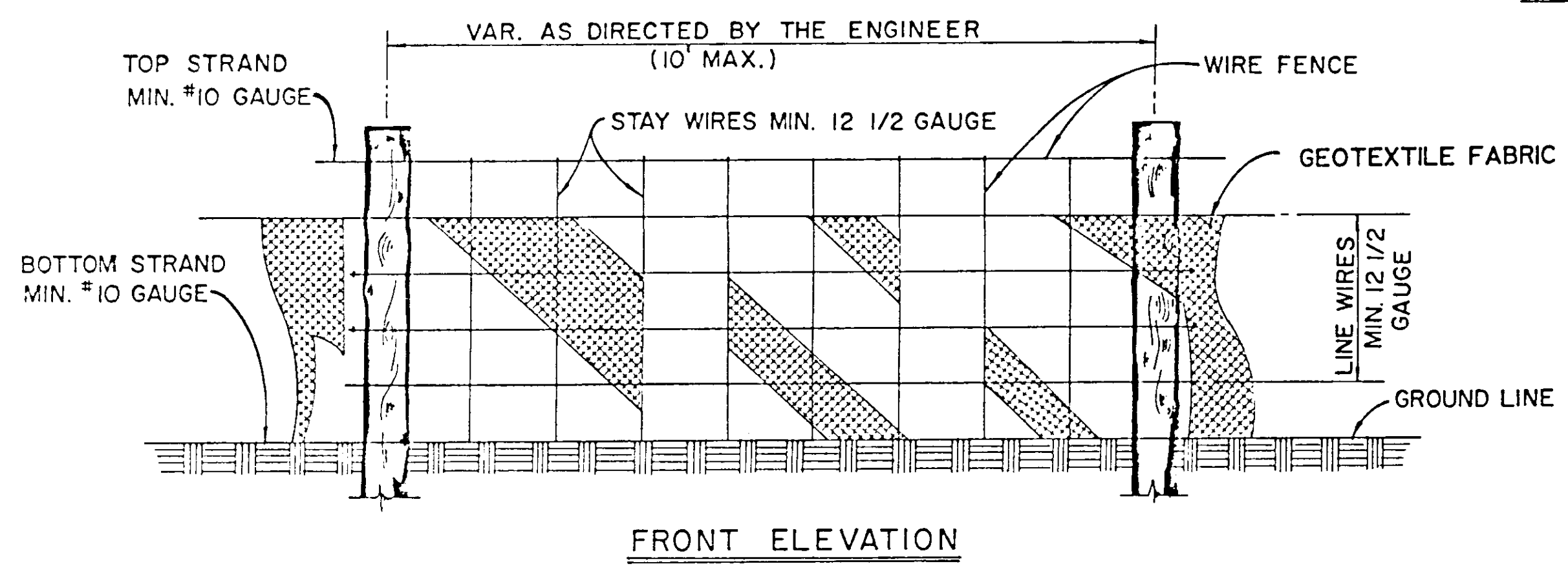
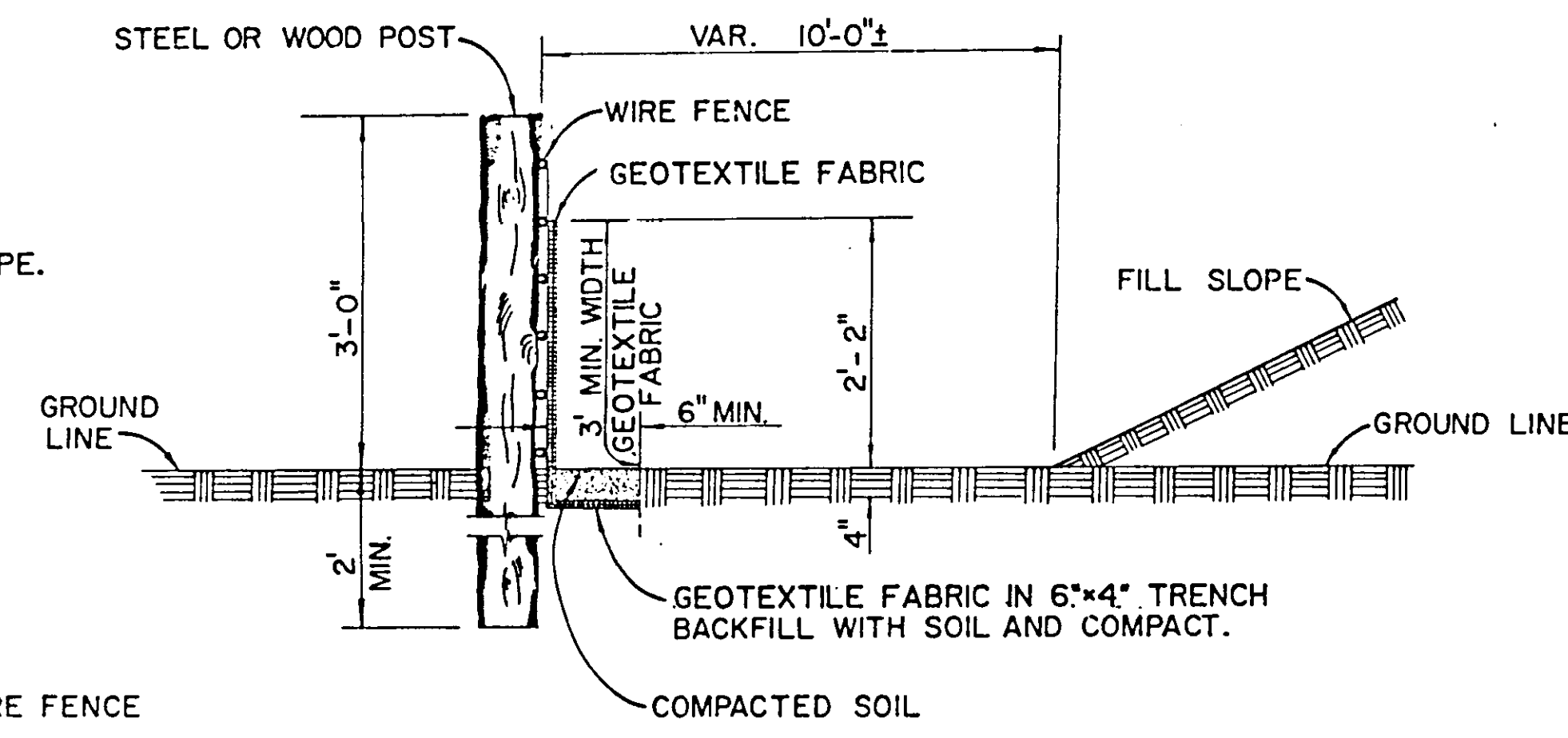
FOR OTHER DETAILS, SEE THE MANUAL ON LETTERING TRUCK MARKINGS.

MISSISSIPPI STATE HIGHWAY DEPARTMENT

**PAVEMENT MARKING
LEGEND DETAILS**

REVISION NUMBER
PM-6
SHEET NUMBER
117

NOTE:
 WIRE SHALL BE A MINIMUM OF 32 INCHES IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 STEEL SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
 WOOD POST SHALL BE A MINIMUM OF 5' IN HEIGHT AND 3" OR MORE IN DIAMETER.
 WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN #9 WIRE STAPLES 1 1/2 INCHES LONG.
 GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE FENCE.

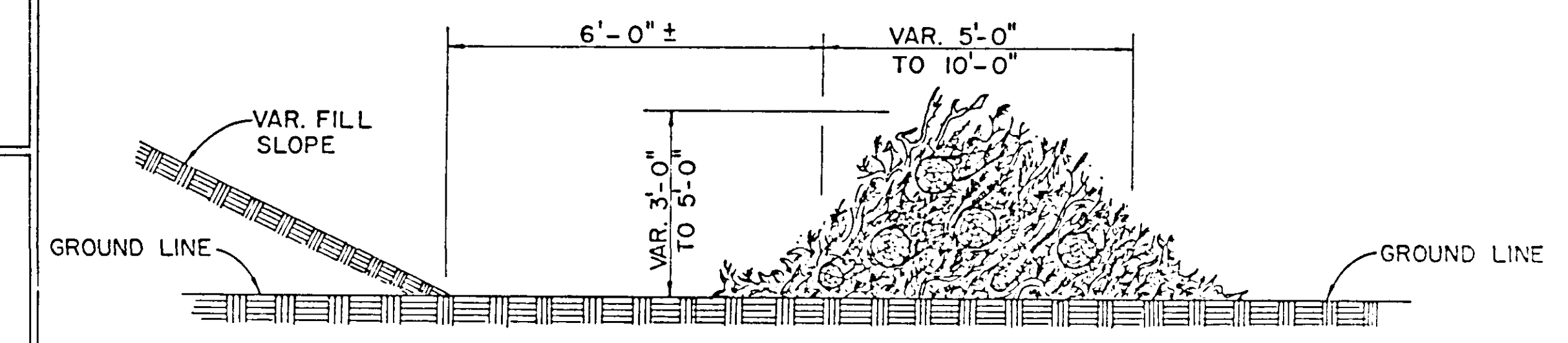


TEMPORARY SILT FENCE

NOTE:
 BRUSH BARRIER TO BE USED WHEN NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
 PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
 TO ALLOW WATER TO FLOW THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.

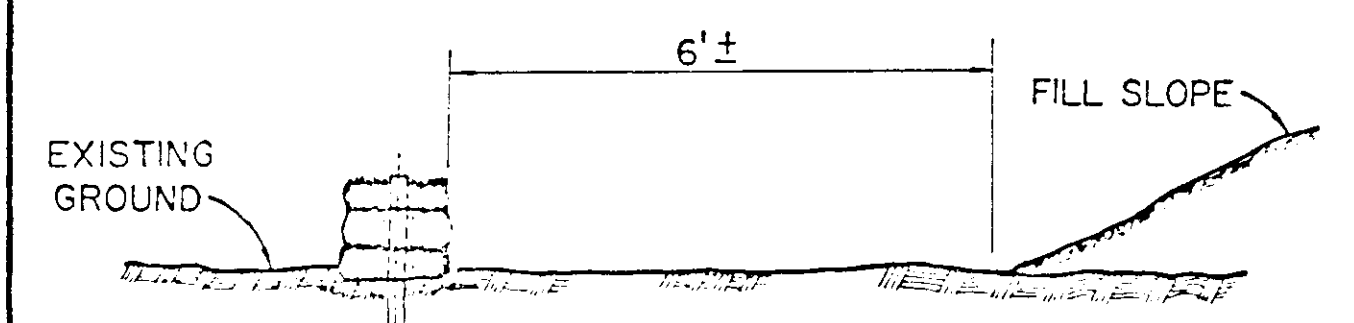


FRONT ELEVATION

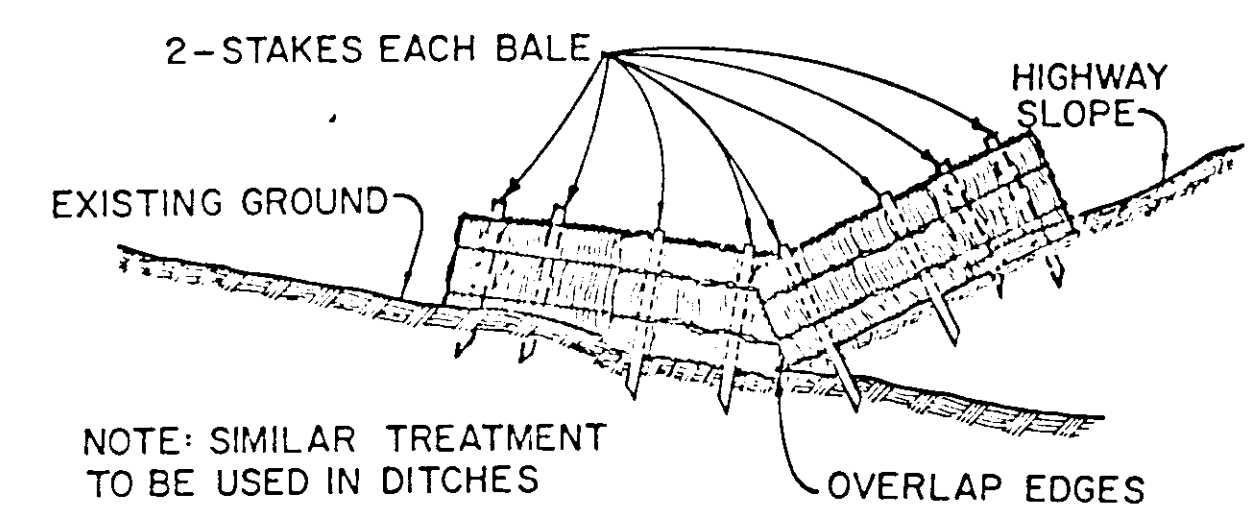


SIDE ELEVATION

TEMPORARY BRUSH BARRIER

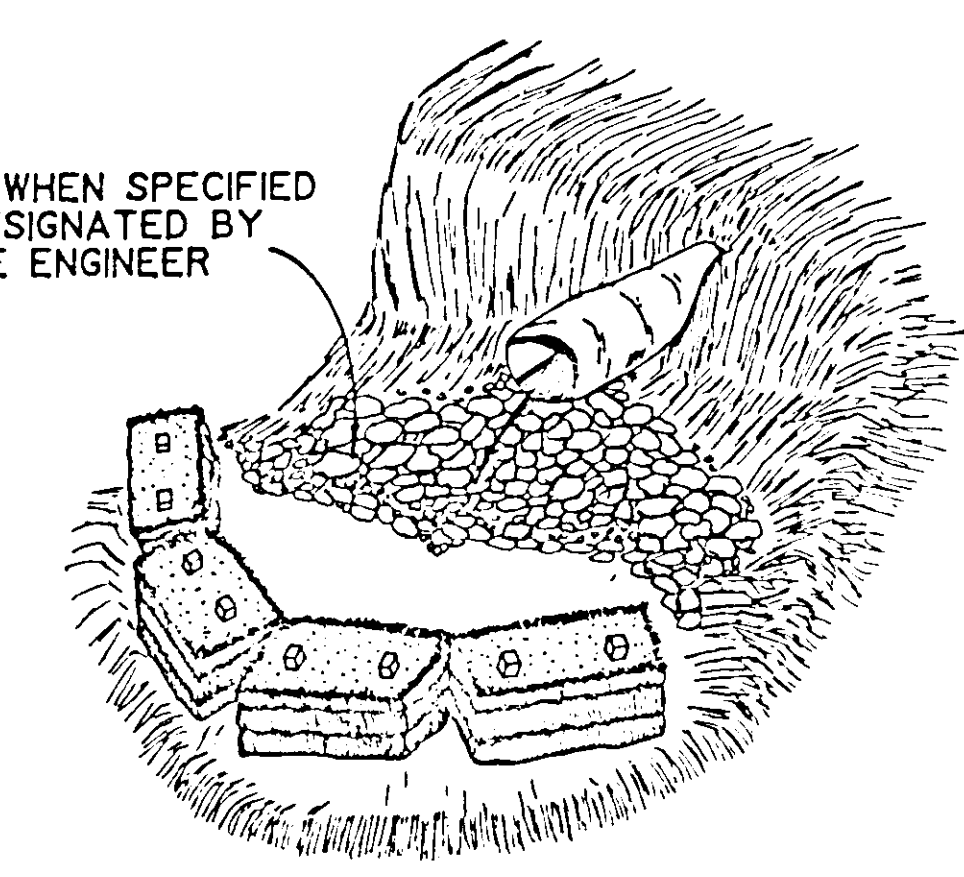


ELEVATION

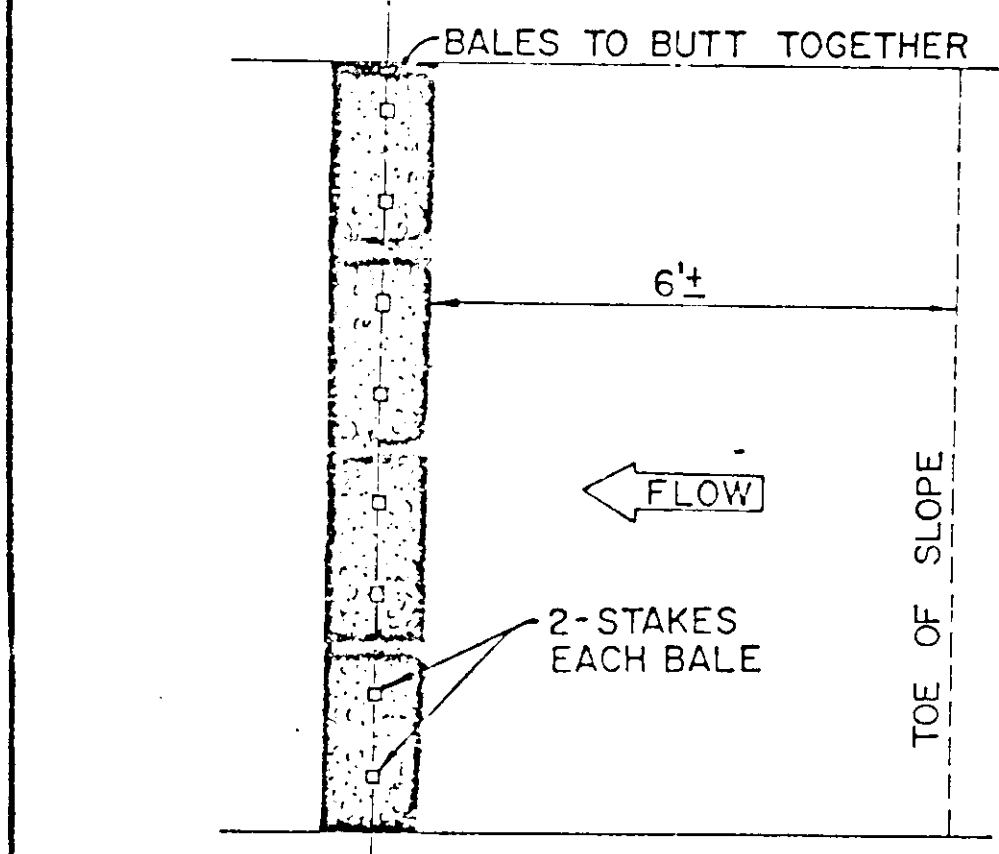


ELEVATION

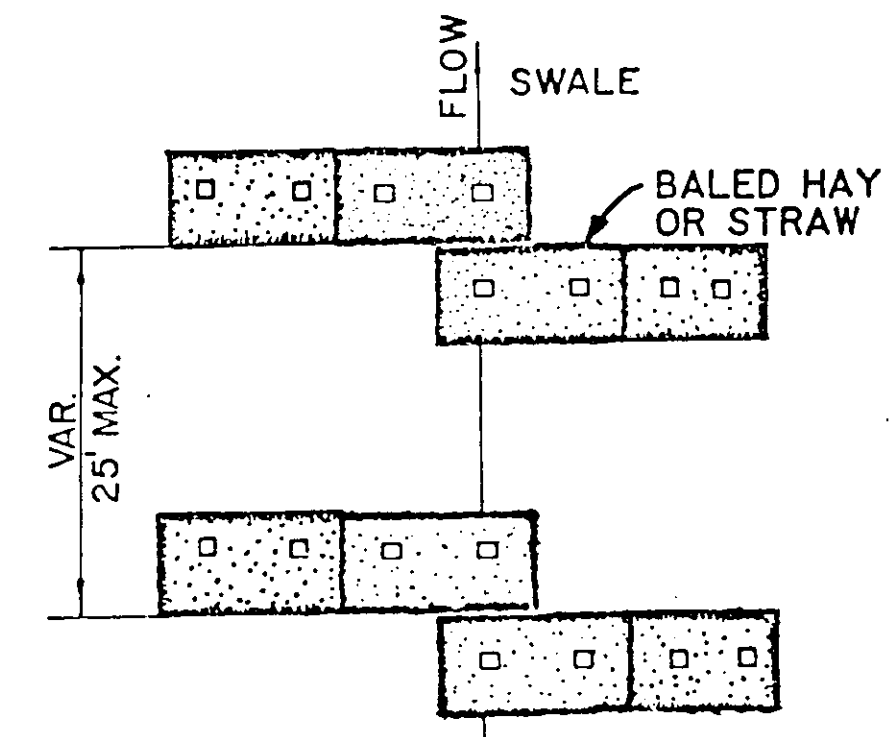
RIP RAP WHEN SPECIFIED OR DESIGNATED BY THE ENGINEER



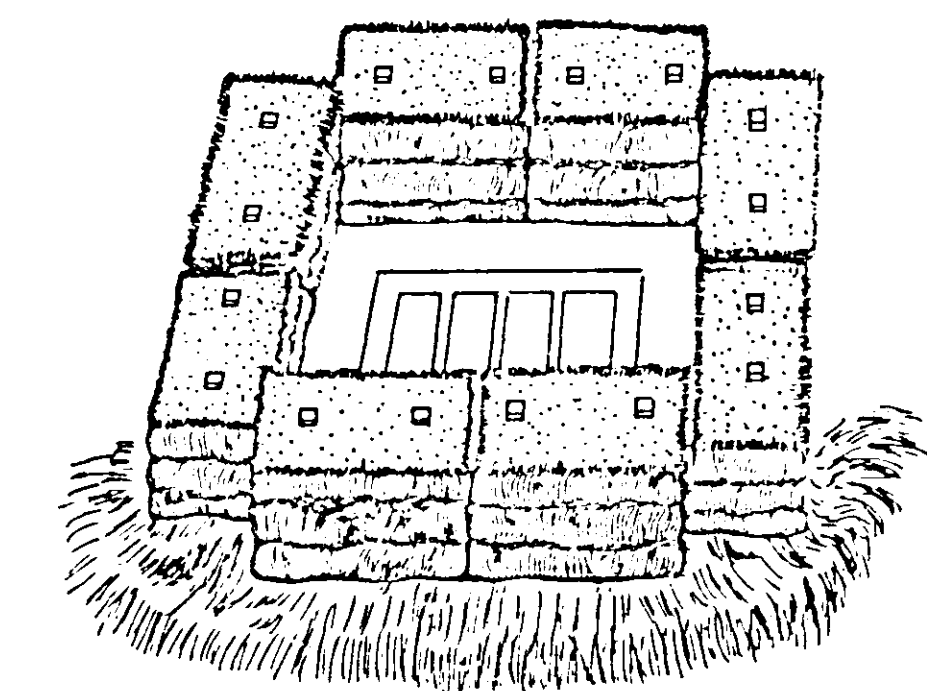
CULVERT



PLAN



PLAN



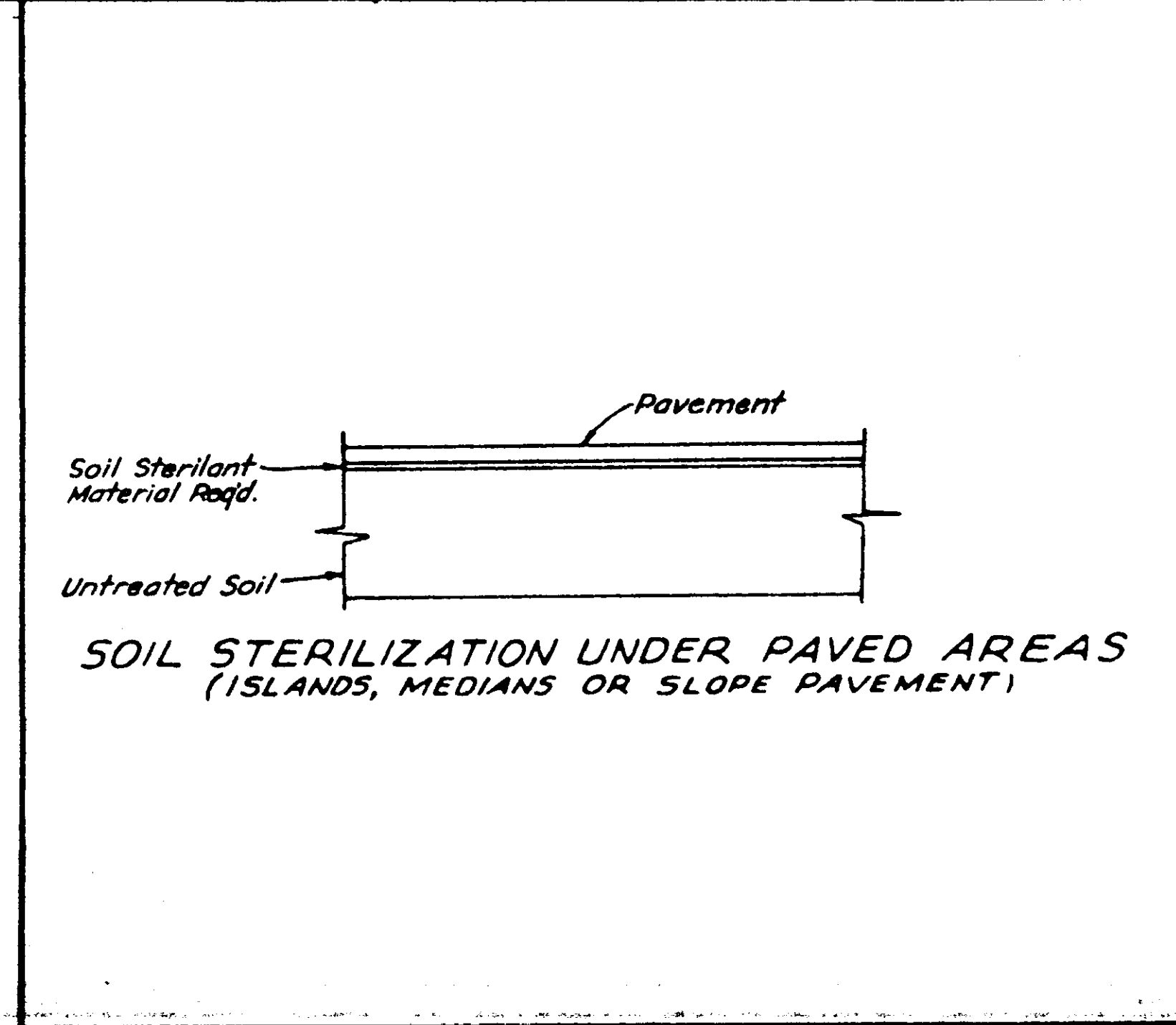
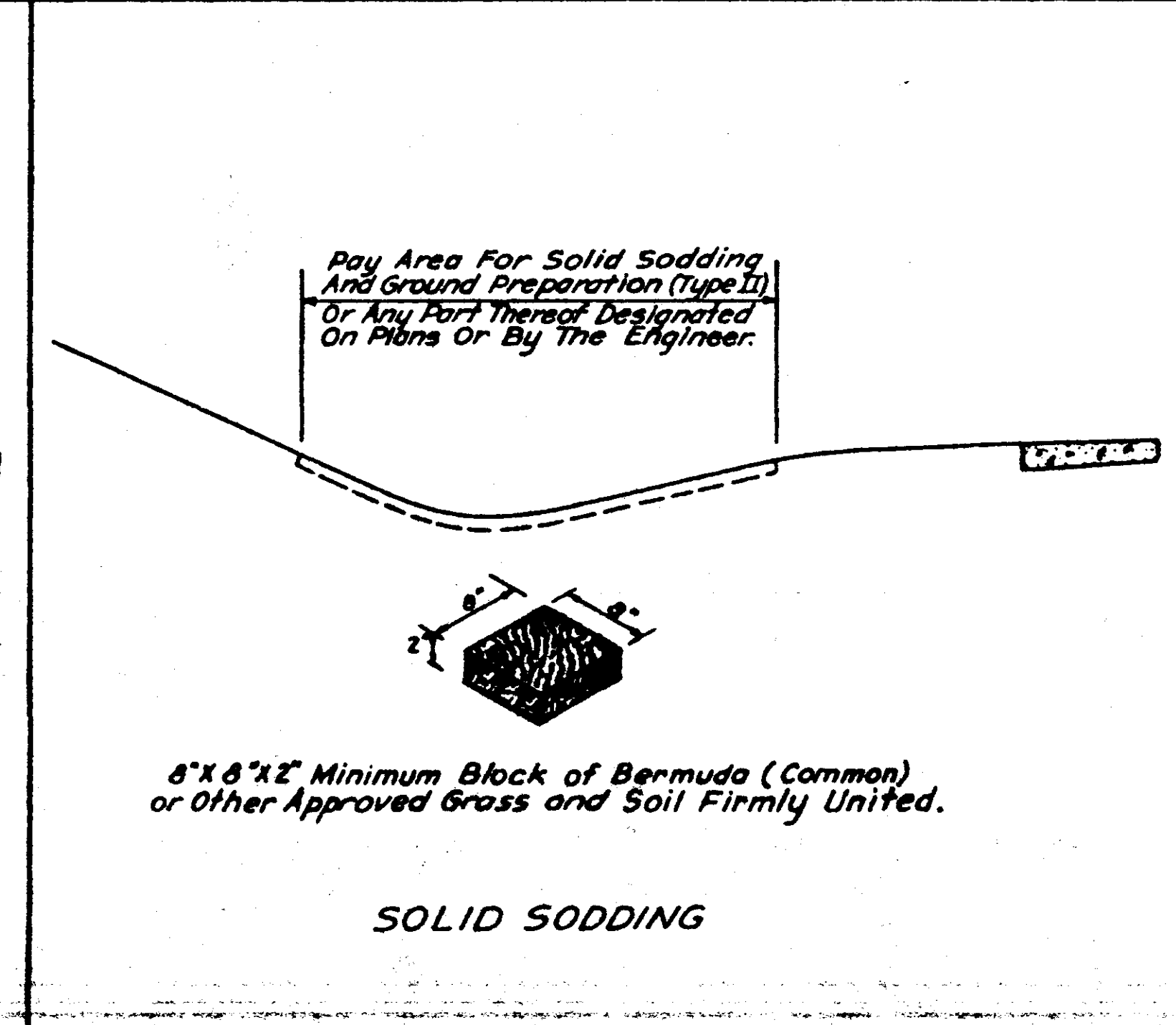
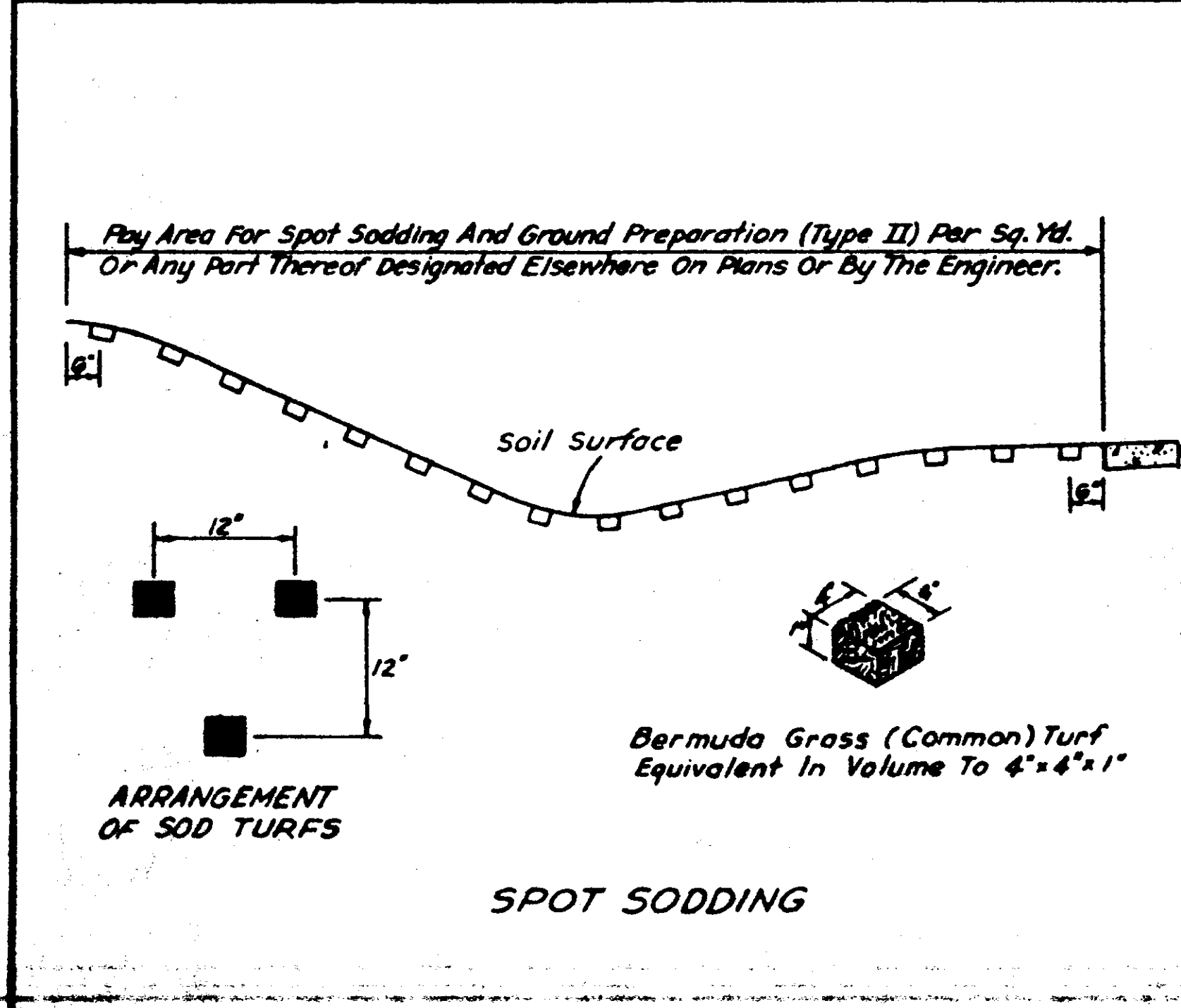
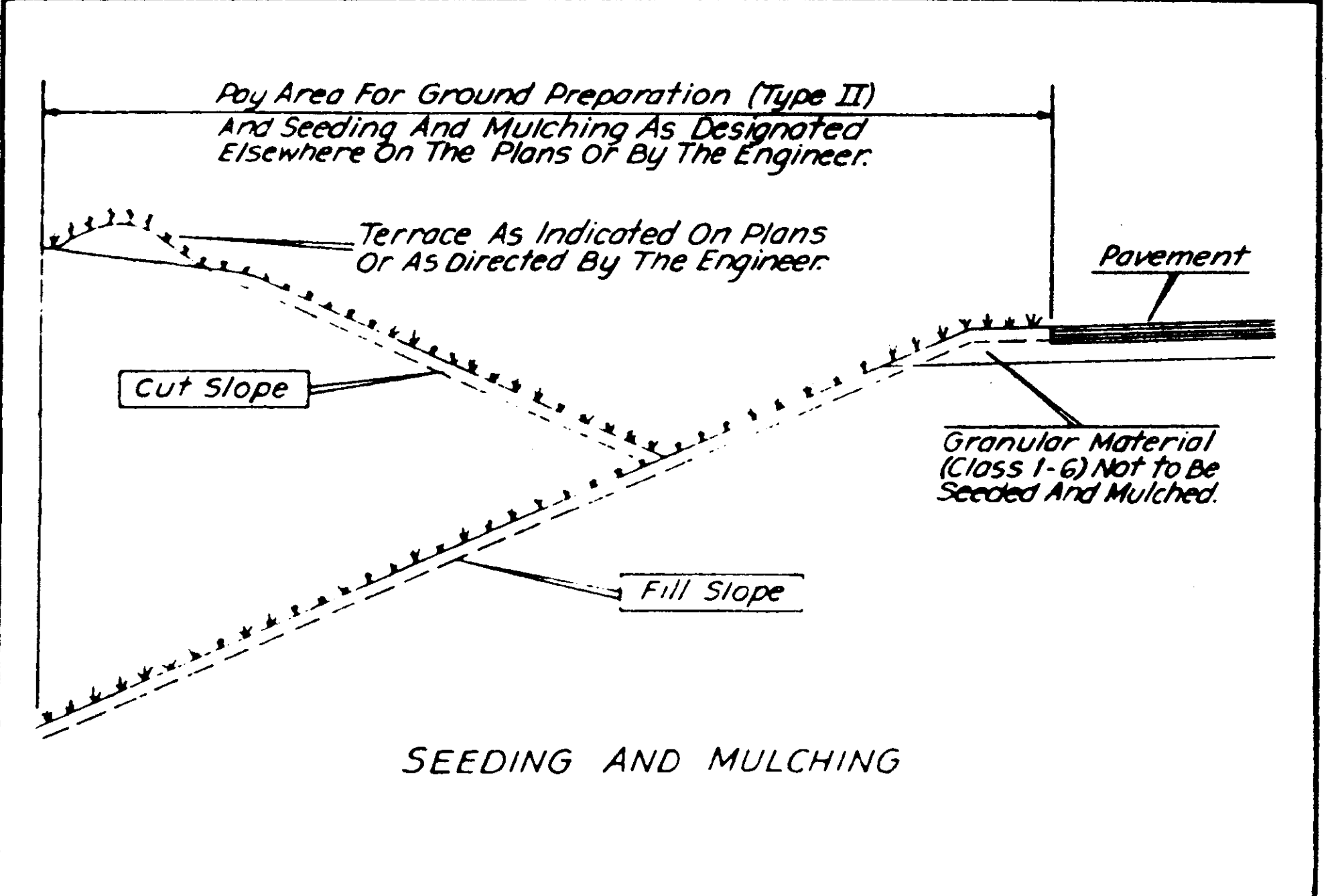
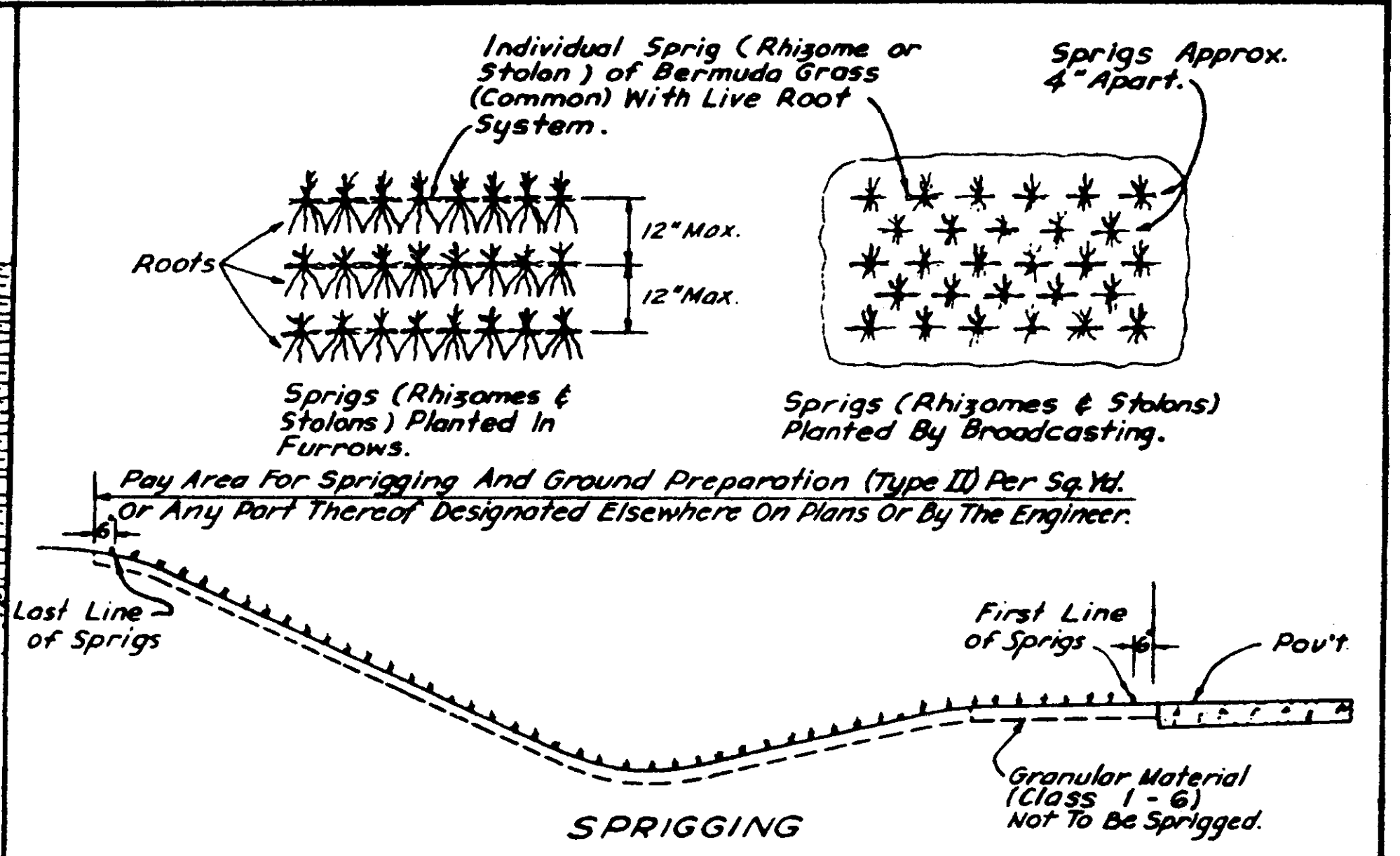
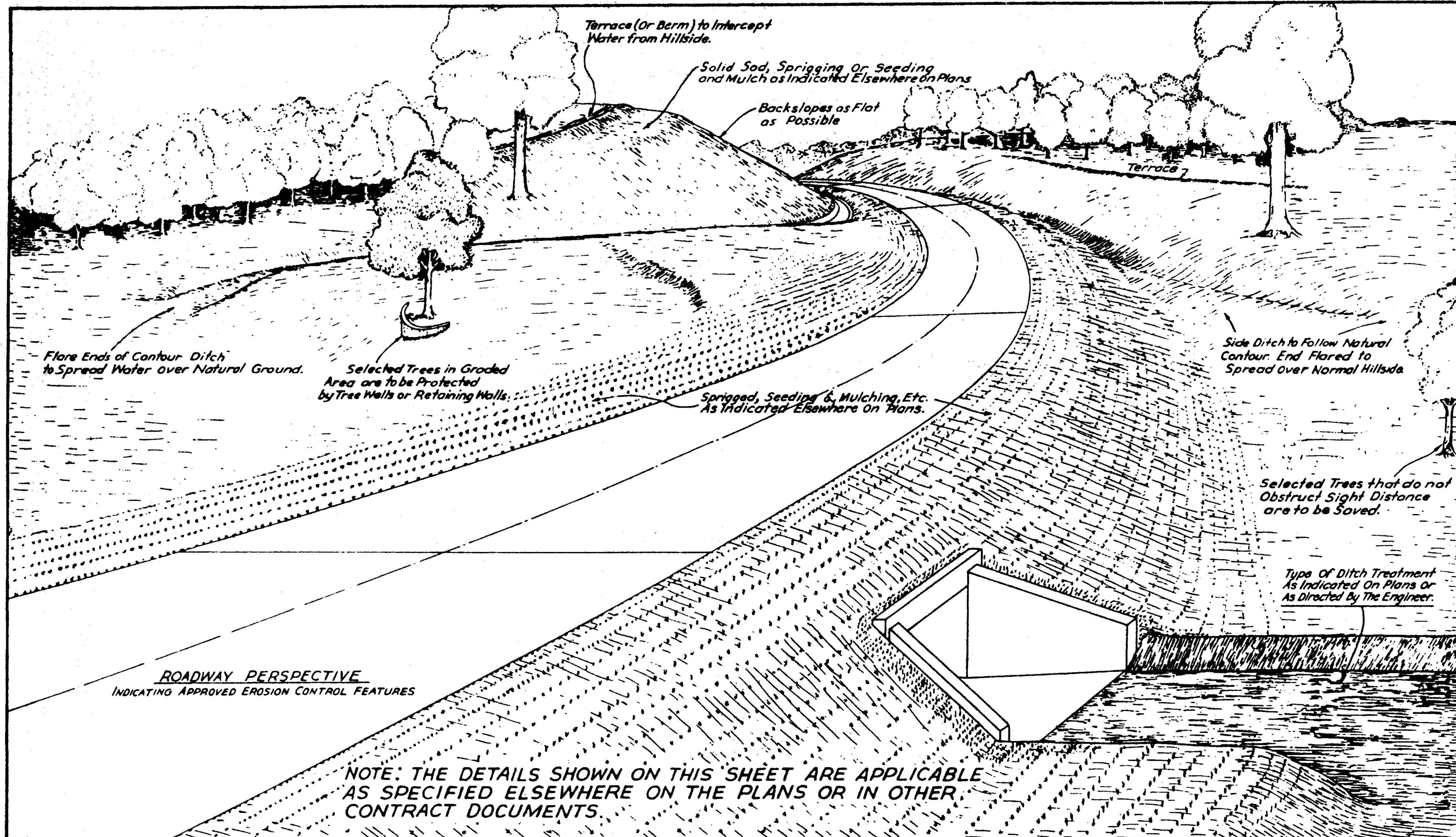
DROP INLET

TEMPORARY EROSION CHECKS
 HAY OR STRAW BALES

1. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS, PERFORM ALL WORK FOR THE PROPER INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURES NECESSARY TO CONTROL SILTATION.
2. TEMPORARY BRUSH BARRIERS SHALL BE USED AS REQUIRED BUT WILL NOT BE MEASURED FOR SEPARATE PAYMENT.
3. THE USE OF THE OTHER TEMPORARY EROSION CONTROL MEASURES SHOWN ON THIS SHEET WILL ONLY BE REQUIRED AND MEASURED FOR SEPARATE PAYMENT WHEN APPROPRIATE PAY ITEM (S) IS INCLUDED IN THE BID SCHEDULE OF THE PROPOSAL.

NOTE: EMBED ALL BALES 3" MINIMUM INTO GROUND AND STAKE (2"x2"x3') SECURELY.

BY		MISSISSIPPI STATE HIGHWAY DEPARTMENT	
DESIGNED		TYPICAL TEMPORARY EROSION CONTROL MEASURES	
CHECKED		(SILT FENCE, HAY BALES, & BRUSH BARRIER)	
DATE		WORKING NUMBER	
REVISIONS		TEC-1	
DESIGNED		SHEET NUMBER	
CHECKED		124	
DATE			
ISSUED			
DATE			




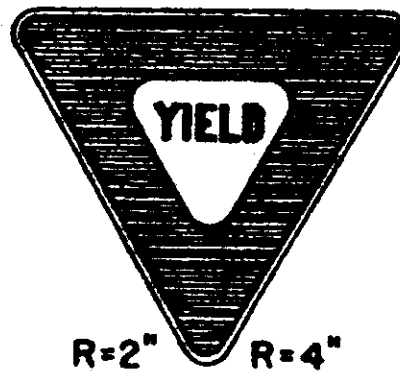
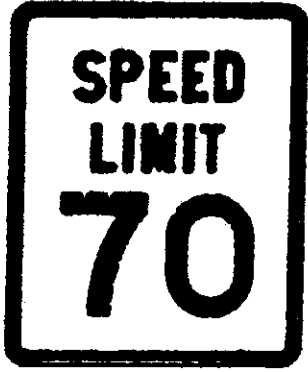


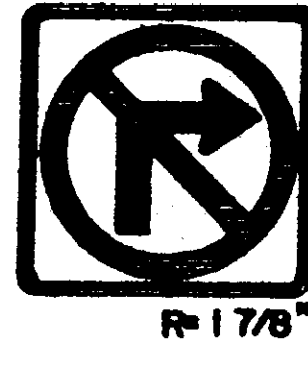


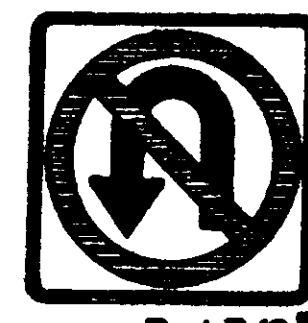
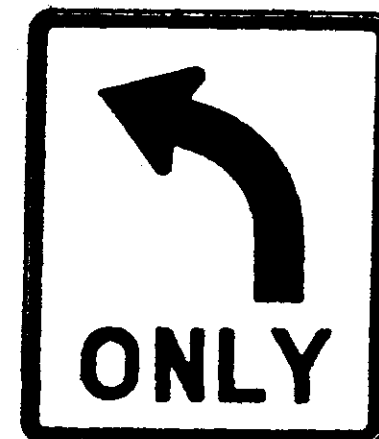

GENERAL NOTES
LONGITUDINAL AND TRANSVERSE MEASUREMENTS FOR THE PAYAREA SHALL BE TAKEN ALONG THE SLOPES.

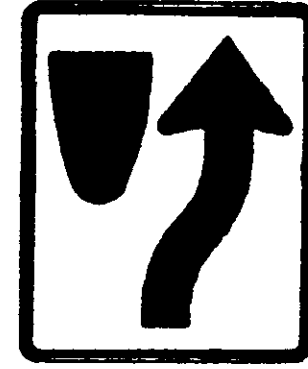
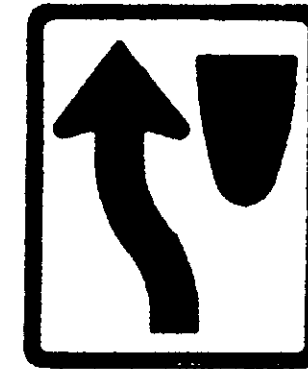

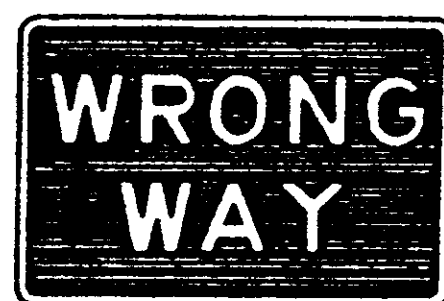




MISSISSIPPI STATE HIGHWAY DEPARTMENT

EROSION CONTROL

DESIGNED	DATE	TRACED	DATE
CHECKED	DATE	ISSUED	DATE
		D.B.J. 11-1-79	

WORKING NUMBER EC-1
SHEET NUMBER 125

SIGN NUMBER	RI-1	RI-101	RI-2	RI-102	R2-1	R2-101	R2-102	R2-104	R3-1	R3-2	R3-3	R3-4	R3-5	R4-103
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.080"	0.125"	0.125"	0.125"	0.080"	0.125"	0.125"	0.125"	0.080"	0.080"	0.080"	0.080"	0.080"	0.125"
LEGEND														
LETTER & NUMERAL SERIES	10" Series "C"	16" Series "C"	3" Series "C"	5" Series "C"	4" Series "E"	8" Series "E"	8" Series "D"	8" Series "C"	8" Series "C"	6" Series "D"	5" Series "D"	6" Series "D"	6" Series "D"	8" Series "D"
WIDTH OF BORDER INSIDE OUTSIDE	3/4" WHITE	1 1/4" WHITE	5" RED 3/4" WHITE	8" RED 1 1/2" WHITE	3/8" BLACK 3/8" WHITE	1 1/4" BLACK 3/4" WHITE	1 1/4" BLACK 3/4" WHITE	3/4" BLACK 3/4" WHITE	3/4" BLACK 1/2" WHITE	3/4" BLACK 1/2" WHITE	3/4" BLACK 3/8" WHITE	3/4" BLACK 1/2" WHITE	3/4" BLACK 1/2" WHITE	1 1/4" BLACK 3/4" WHITE
SIZE (WIDTH X HEIGHT)	30" OCTAGON	48" OCTAGON	36" EQUILATERAL TRIANGLE	60" EQUILATERAL TRIANGLE	24" x 30"	48" x 60"	48" x 48"	30" x 30"	30" x 30"	24" x 24"	30" x 30"	30" x 30"	30" x 36"	48" x 60"
COLORS COPY BACKGROUND	WHITE RED	WHITE RED	RED WHITE	RED WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK WHITE	BLACK & RED WHITE	BLACK WHITE	BLACK WHITE
REFLECTORIZATION	ALL	ALL	ALL	ALL	B'GROUND	B'GROUND	BACKGROUND	BACKGROUND	BACKGROUND, CIRCLE, & DIAGONAL	BACKGROUND, CIRCLE, & DIAGONAL	BACKGROUND	BACKGROUND, CIRCLE, & DIAGONAL	BACKGROUND	BACKGROUND
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	1	1	-	-	1	1	1	1	1	1
NUMBER OF HOLES TO BE PUNCHED (3/8" Ø)	2	4	2	4	2	6	4	4	2	2	2	2	2	6
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	15" (VERTICAL CENTER)	10"	18" (VERTICAL CENTER)	20"	12" (VERTICAL CENTER)	10"	10"	10"	15" (VERTICAL CENTER)	15" (VERTICAL CENTER)	12" (VERTICAL CENTER)	15" (VERTICAL CENTER)	15" (VERTICAL CENTER)	10"
PUNCHING DISTANCE FROM TOP EDGE	3"; 27"	10"; 38"	2"; 26"	3"; 27"	3"; 27"	4"; 30"; 56"	4"; 44"	4"; 44"	3"; 27"	3"; 27"	3"; 21"	3"; 27"	3"; 33"	4"; 30"; 56"

SIGN NUMBER	R4-7	R4-107	R4-8	R5-1	R5-101	R5-10	R6-1L, R6-1R	R6-2L, R6-2R	R8-104	R11-101
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.080"	0.125"	0.080"	0.080"	0.125"	0.125"	0.125"	0.080"	0.125"	0.125"
LEGEND										
LETTER & NUMERAL SERIES				4" Series "D"	6" Series "D"	8" Series "D"	4" Series "D"	5" Series "D"	6" Series "D"	10" Series "C"
WIDTH OF BORDER INSIDE OUTSIDE	3/8" BLACK 3/8" WHITE	7/8" BLACK 3/4" WHITE	3/8" BLACK 3/8" WHITE	WHITE OUTSIDE BORDER	WHITE OUTSIDE BORDER	1" WHITE	1/2" WHITE	3/8" BLACK 3/8" WHITE	3/8" BLACK 3/8" WHITE	1 1/4" BLACK 3/4" WHITE
SIZE (WIDTH X HEIGHT)	24" x 30"	36" x 48"	24" x 30"	30" x 30"	42" x 42"	42" x 36"	36" x 12"	18" x 24"	48" x 36"	48" x 60"
COLORS COPY BACKGROUND	BLACK WHITE	BLACK WHITE	BLACK WHITE	WHITE RED	WHITE RED	WHITE RED	BLACK (WHITE ARROW) BLACK	BLACK WHITE	BLACK WHITE	BLACK WHITE
REFLECTORIZATION	BACKGROUND	BACKGROUND	BACKGROUND	ALL	ALL	ALL	ARROW & BORDER	BACKGROUND	BACKGROUND	BACKGROUND
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	1	1	1	1	2	1
NUMBER OF HOLES TO BE PUNCHED (3/8" Ø)	2	4	2	2	4	4	2	2	4	6
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	12" (VERTICAL CENTER)	5"	12" (VERTICAL CENTER)	15" (VERTICAL CENTER)	8"	8"	18" (VERTICAL CENTER)	9" (VERTICAL CENTER)	10"	10"
PUNCHING DISTANCE FROM TOP EDGE	3"; 27"	4"; 44"	3"; 27"	3"; 27"	4"; 36"	3"; 33"	1 1/2"; 10 1/2"	3"; 21"	6"; 30"	4"; 30"; 56"

NOTES

The quantities listed on the SUMMARY OF QUANTITIES sheet for the signs shown on this sheet will be used as the basis for final payment, except where signs are modified from that shown.
The speed limits required on signs R2-1 and R2-101 will be shown on individual plan sheets.

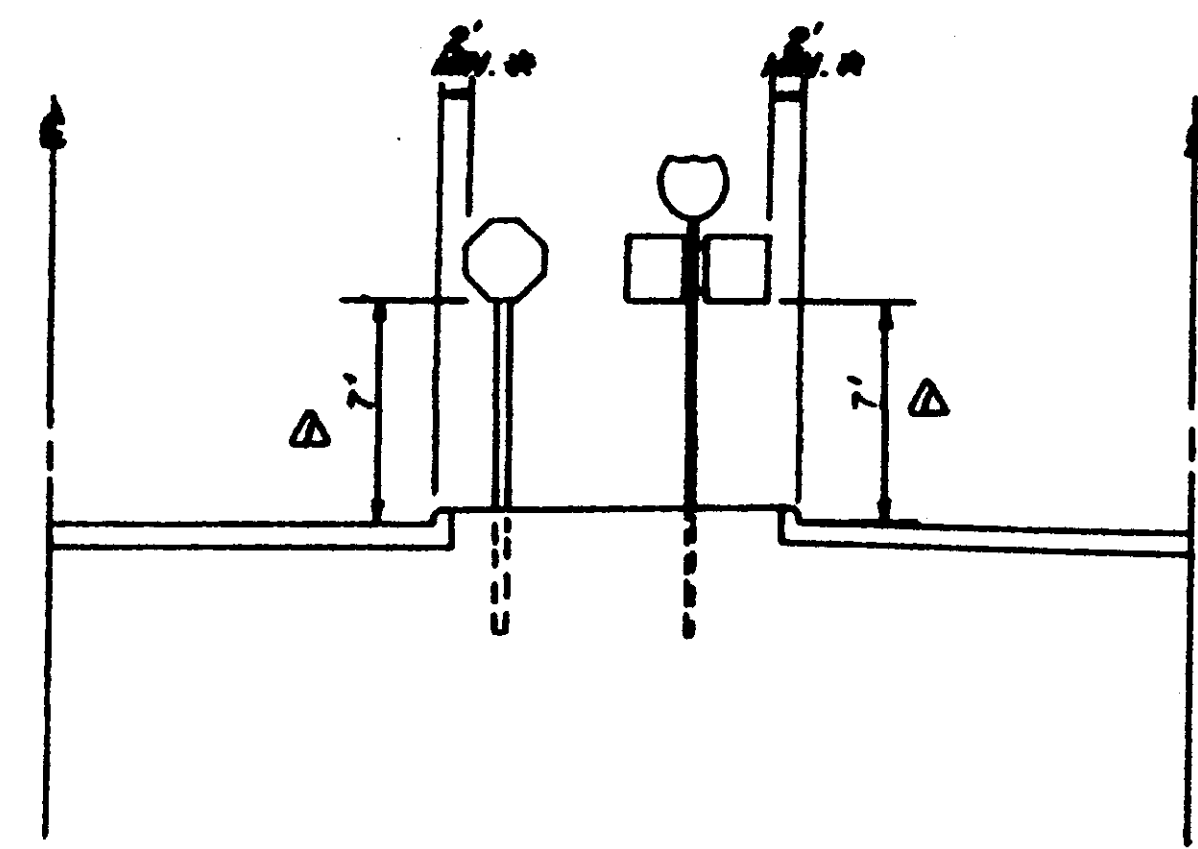
DESIGNED		DETAILED		TRACED	
CHECKED		ISSUED		DATE	
DATE		DATE		DATE	
BY		BY		BY	
REVISIONS		REVISIONS		REVISIONS	
MISSISSIPPI STATE HIGHWAY DEPARTMENT					
STD. ROADSIDE SIGNS					
				WORKING NUMBER SN-3A	
				SHEET NUMBER 182.1	

SIGN NUMBER	W1-1L W1-1R	W1-2L W1-2R	W1-3L W1-3R	W1-4L W1-4R	W1-6L W1-6R	W1-7	W3-1a	W3-1P	W3-2a	W3-2P	W3-3	W4-1L W4-1R	W4-101L W4-101R
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.125"	0.125"	0.125"	0.125"	0.125"	0.125"	0.125"	0.080"	0.125"	0.080"	0.125"	0.125"	0.125"
LEGEND													
LETTER & NUMERAL SERIES									4" Series "D"	4" Series "D"			
WIDTH OF BORDER INSIDE OUTSIDE	3/4" BLACK 1/2" YELLOW	3/4" BLACK 1/2" YELLOW	3/4" BLACK 1/2" YELLOW	3/4" BLACK 1/2" YELLOW	3/4" BLACK 1/2" YELLOW	3/4" BLACK 1/2" YELLOW	3/8" BLACK 1/2" YELLOW	3/8" BLACK 3/8" YELLOW	3/8" BLACK 5/8" YELLOW	3/8" BLACK 3/8" YELLOW	3/8" BLACK 5/8" YELLOW	3/4" BLACK 1/2" YELLOW	1/4" BLACK 3/4" YELLOW
SIZE (WIDTH X HEIGHT)	30" x 30"	30" x 30"	30" x 30"	30" x 30"	48" x 24"	48" x 24"	36" x 36"	24" x 18"	36" x 36"	24" x 18"	36" x 36"	30" x 30"	48" x 48"
COLORS COPY BACKGROUND	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW
REFLECTORIZATION	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND & SYMBOL	BACKGROUND	BACKGROUND & SYMBOL	BACKGROUND	BACKGROUND & "LIGHTS"	BACKGROUND	BACKGROUND
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	2	2	1	-	1	-	1	1	1
NUMBER OF HOLES TO BE PUNCHED (3/8" Ø)	2	2	2	2	4	4	2	2	2	2	2	2	4
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	6"	6"	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	14 1/2" FROM VERT. CENTER
PUNCHING DISTANCE FROM TOP EDGE	15" FROM HORIZONTAL CENTER	15" FROM HORIZONTAL CENTER	15" FROM HORIZONTAL CENTER	15" FROM HORIZONTAL CENTER	3"; 21"	3"; 21"	18" FROM HORIZ. CENTER	3"; 15"	18" FROM HORIZ. CENTER	3"; 15"	18" FROM HORIZONTAL CENTER	15" FROM HORIZ. CENTER	14 1/2" FROM HORIZ. CENTER

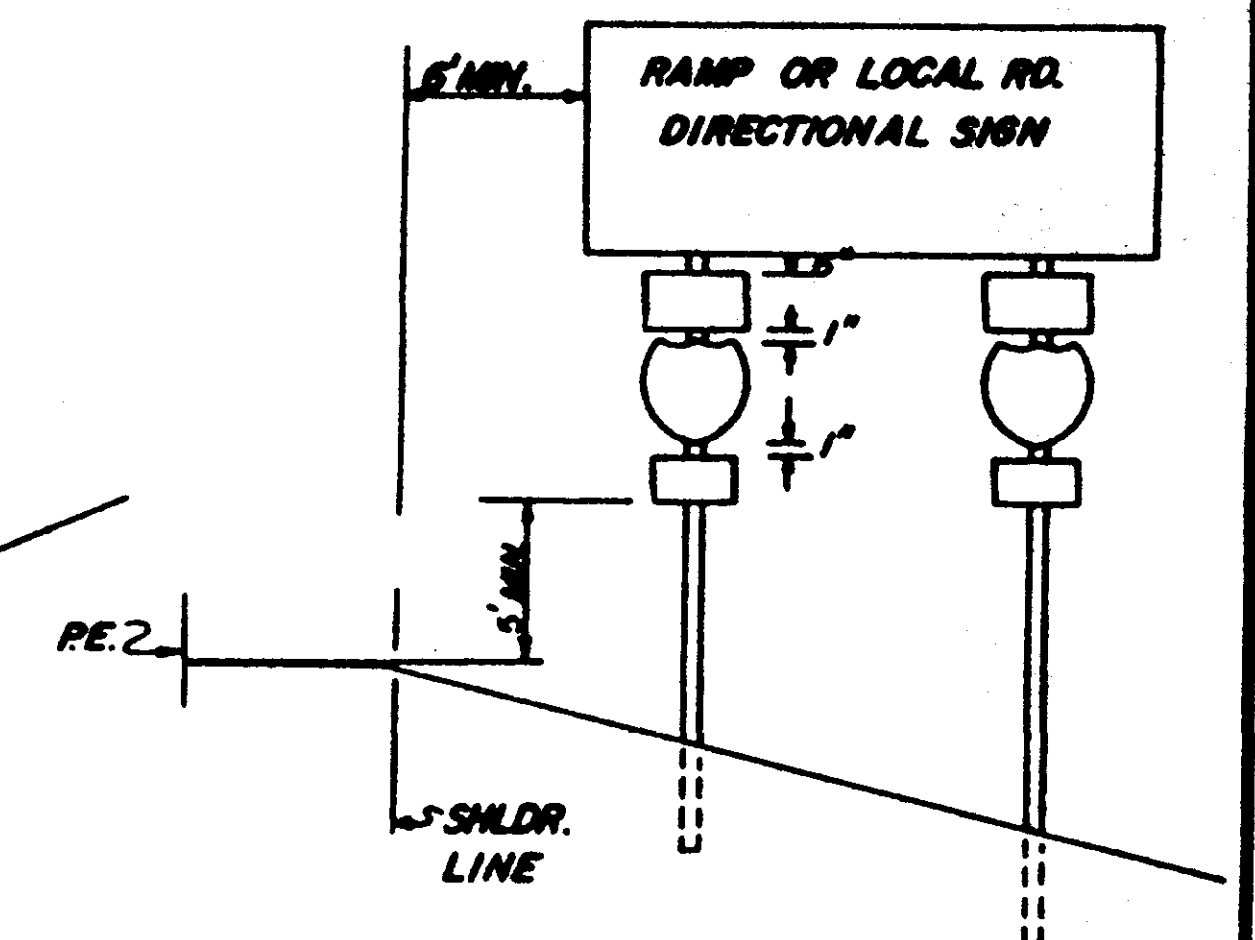
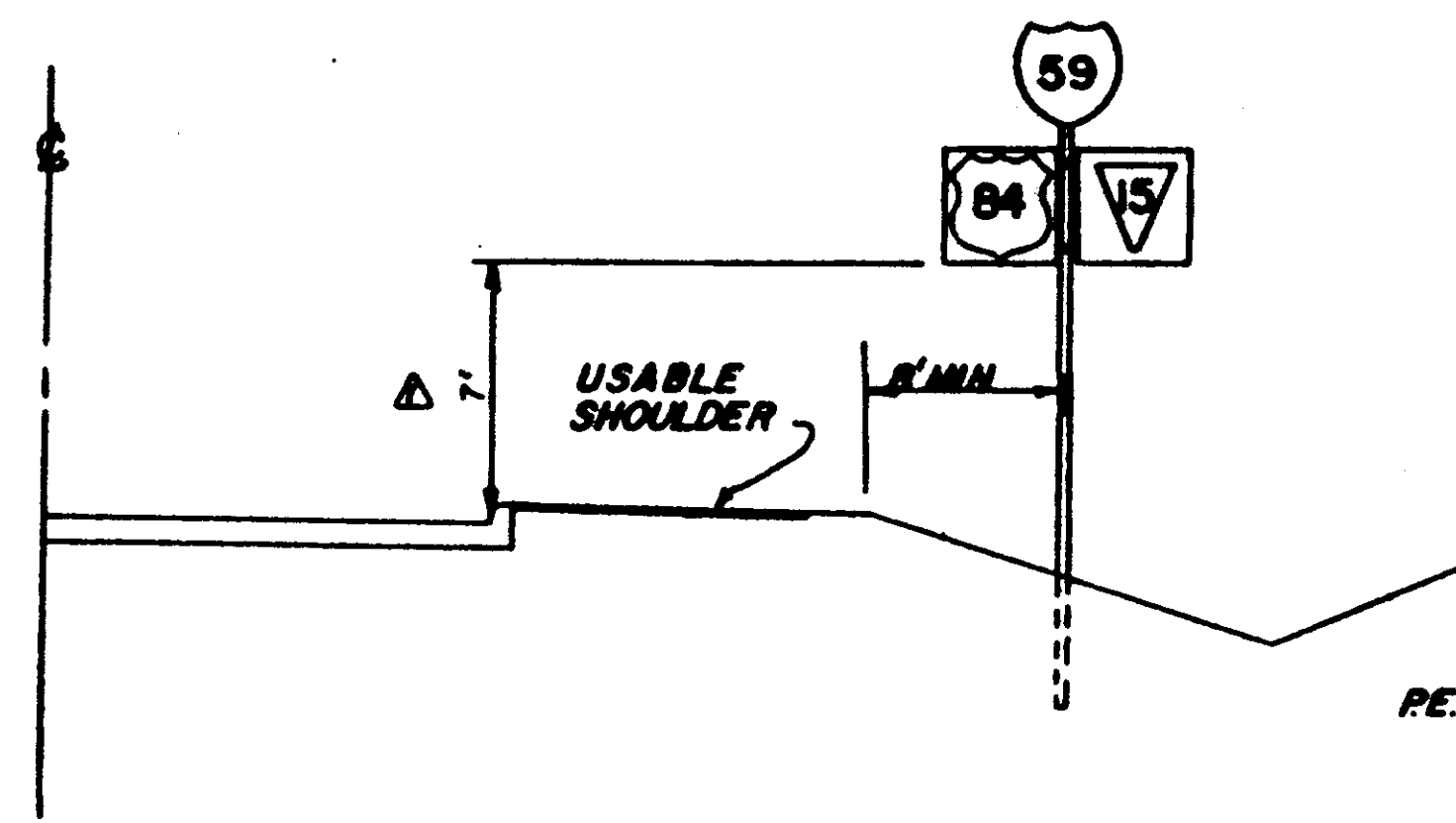
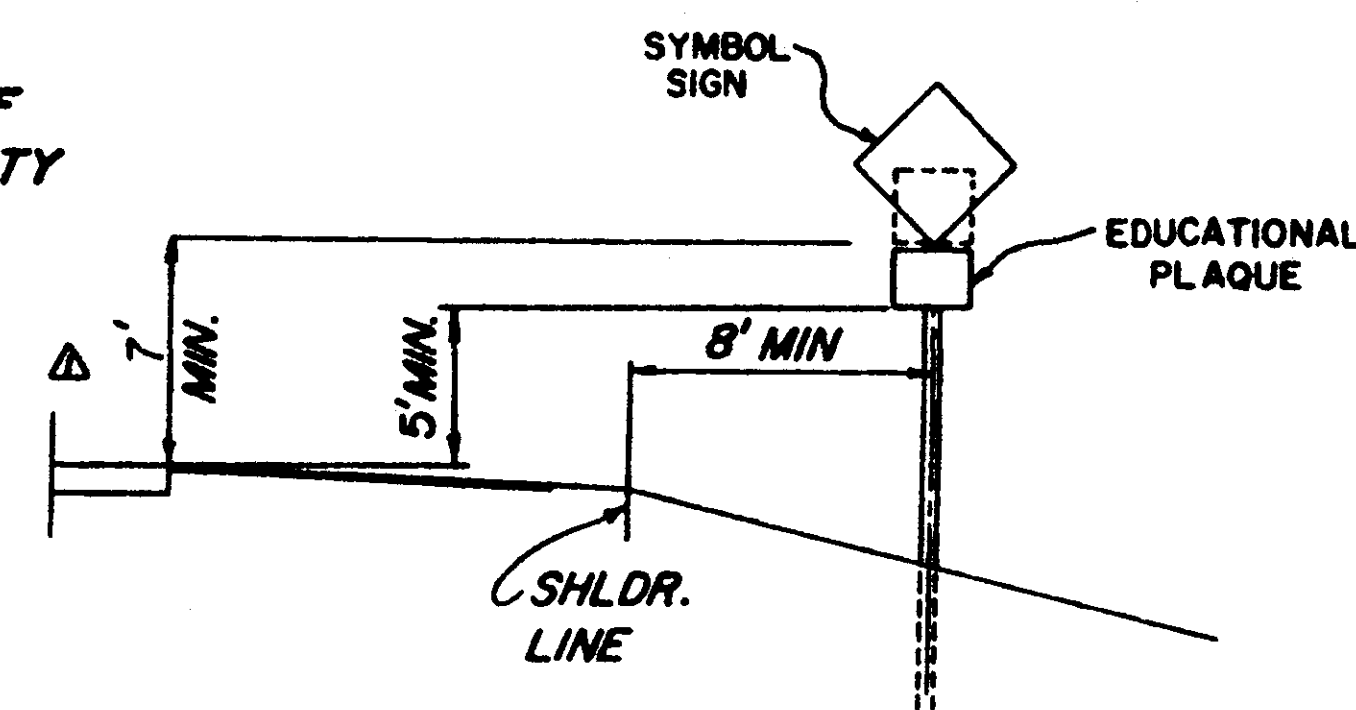
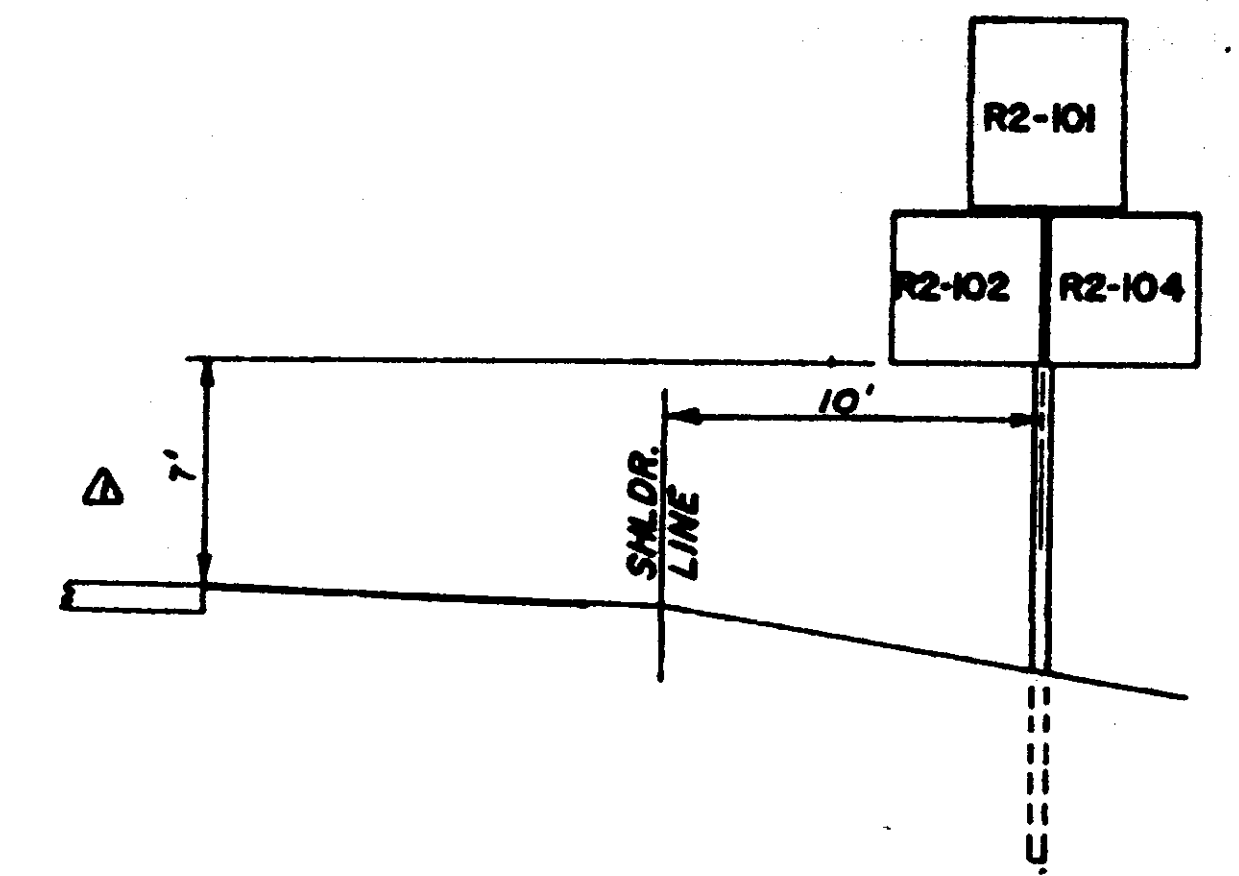
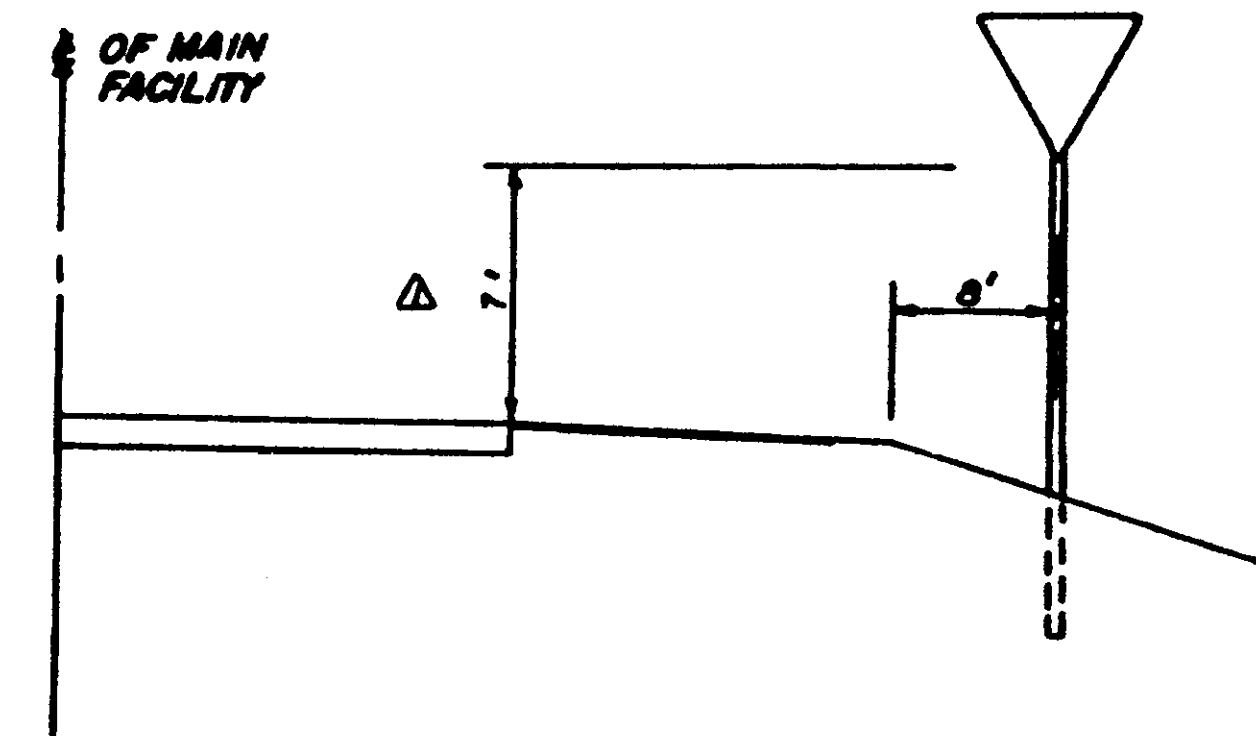
SIGN NUMBER	W4-2	W5-1	W6-1	W6-2	W6-3	W13-1	W13-2	W13-3	W10-1	W10-101
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.125"	0.125"	0.125"	0.125"	0.125"	0.080"	0.125"	0.125"	0.125"	0.125"
LEGEND	 NOTE: See plan sheets for ideogram required on individual signs.									
LETTER & NUMERAL SERIES		6" Series "D"				8" Series "E" 3" Series "E"	8" Series "E" 16" Series "E" 6" Series "E" (See note)	8" Series "E" 16" Series "E" 6" Series "E" (See note)	8" Series "E"	10" Series "E"
WIDTH OF BORDER INSIDE OUTSIDE	7/8" BLACK 5/8" YELLOW	7/8" BLACK 5/8" YELLOW	7/8" BLACK 5/8" YELLOW	7/8" BLACK 5/8" YELLOW	3/4" BLACK 1/2" YELLOW	5/8" BLACK 3/8" YELLOW	1 1/4" BLACK 3/4" YELLOW	1 1/4" BLACK 3/4" YELLOW	3/4" BLACK 1/2" YELLOW	1 1/4" BLACK 3/4" YELLOW
SIZE (WIDTH X HEIGHT)	36" x 36"	36" x 36"	36" x 36"	36" x 36"	30" x 30"	18" x 18"	48" x 60"	48" x 60"	36" DIAMETER	48" DIAMETER
COLORS COPY BACKGROUND	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW	BLACK YELLOW
REFLECTORIZATION	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	1	1	1	1	1	1
NUMBER OF HOLES TO BE PUNCHED (3/8" Ø)	2	2	2	2	2	2	6	6	2	4
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	VERTICAL CENTER	9" (VERTICAL CENTER)	10"	10"	15"	15" (VERTICAL CENTER)
PUNCHING DISTANCE FROM TOP EDGE	18" FROM HORIZONTAL CENTER	18" FROM HORIZONTAL CENTER	18" FROM HORIZONTAL CENTER	18" FROM HORIZONTAL CENTER	15" FROM HORIZONTAL CENTER	3"; 15"	4"; 30"; 56"	4"; 30"; 56"	3"; 33"	5"; 43"

NOTES
The quantities listed on the SUMMARY OF QUANTITIES sheet for the signs shown on this sheet will be used as the basis for final payment, except where signs are modified from that shown.
Signs W13-2 and W13-3—The stroke width of the letters and numerals shall be widened to one-fifth(1/5) of the letter or numeral height.
The speeds required on signs W13-1, W13-2 and W13-3 will be shown on individual plan sheets.

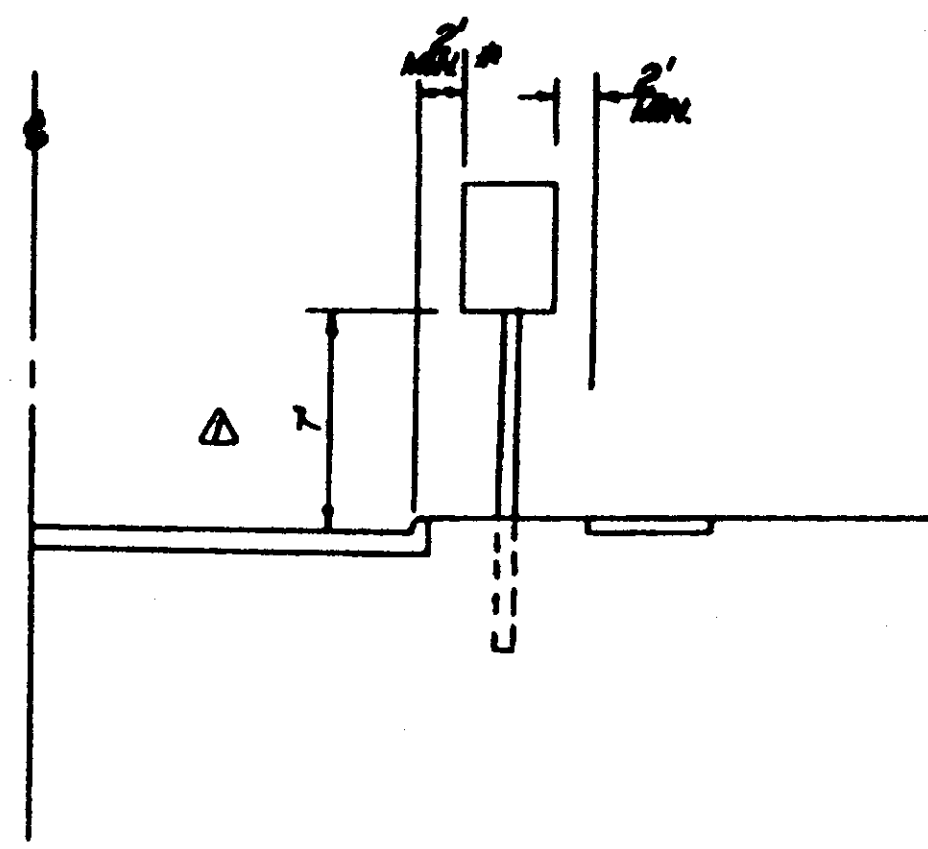
MISSISSIPPI STATE HIGHWAY DEPARTMENT	
STD. ROADSIDE SIGNS	
WORKING NUMBER SN-38	SHEET NUMBER 182.2
DESIGNED _____	TRACED _____
CHECKED _____	DATE _____



TYPICAL INSTALLATION IN ISLANDS OFF OF (OR ADJACENT TO) INTERSTATE MAIN FACILITY



TYPICAL INSTALLATION ALONG THE INTERSTATE MAIN FACILITY AND ALONG RAMPS, FRONTAGE ROADS, AND HIGHWAYS

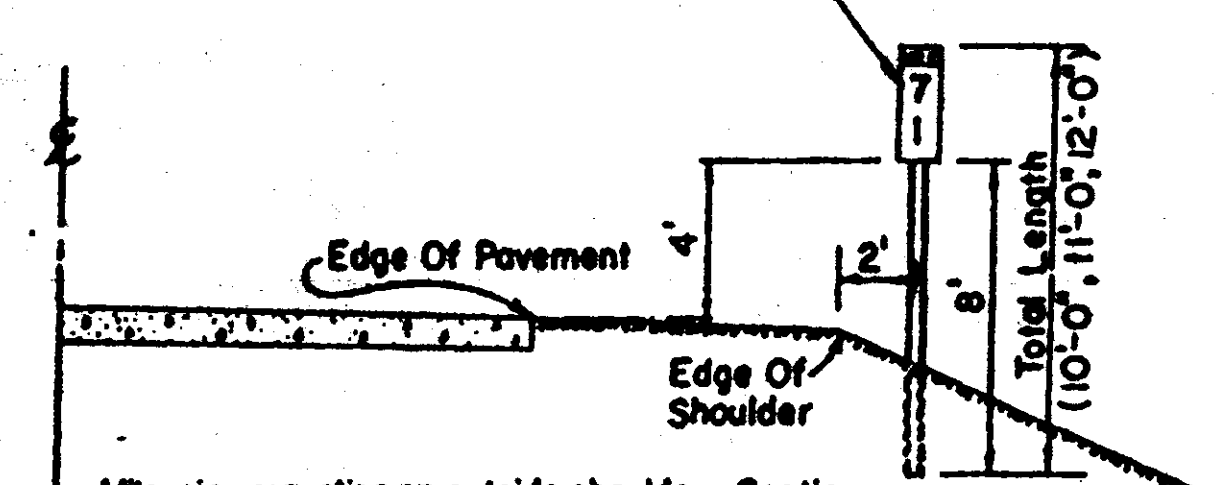


TYPICAL INSTALLATION ALONG FRONTAGE ROAD, RAMP, OR STREET WHERE THERE IS NOT A USABLE SHOULDER

* THE 2' MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-SECTION POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET A MINIMUM OF 4'. RAMP DESTINATION SIGNS WILL BE OFFSET 4' FROM SHOULDERS.

MISSISSIPPI STATE HIGHWAY DEPARTMENT	
STD. ROADSIDE SIGN ASSEMBLY AND INSTALLATION	
DESIGNED BY	DATE
DETAILS BY	DATE
TRACED BY	DATE
CHECKED BY	DATE
WORKING NUMBER SN-4	SHEET NUMBER 183

Mile Sign - Standard Roadside Sign DIO-1, DIO-2, & DIO-3



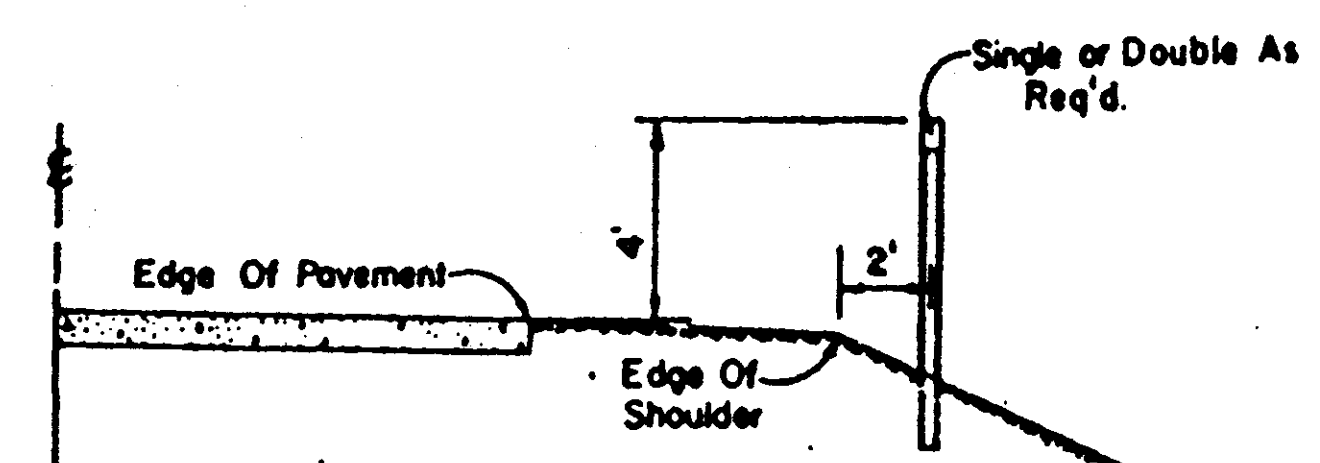
Mile sign mounting on outside shoulder. Section along main facility. Sign mounting on left lane shoulder shall be 90° opposite the right lane station. If conditions are such that mile sign cannot be located within 50' of its true location, it shall be omitted entirely.

Delineators, object markers, or mile signs (DIO-1, DIO-2, DIO-3) are mounted to this face as shown.

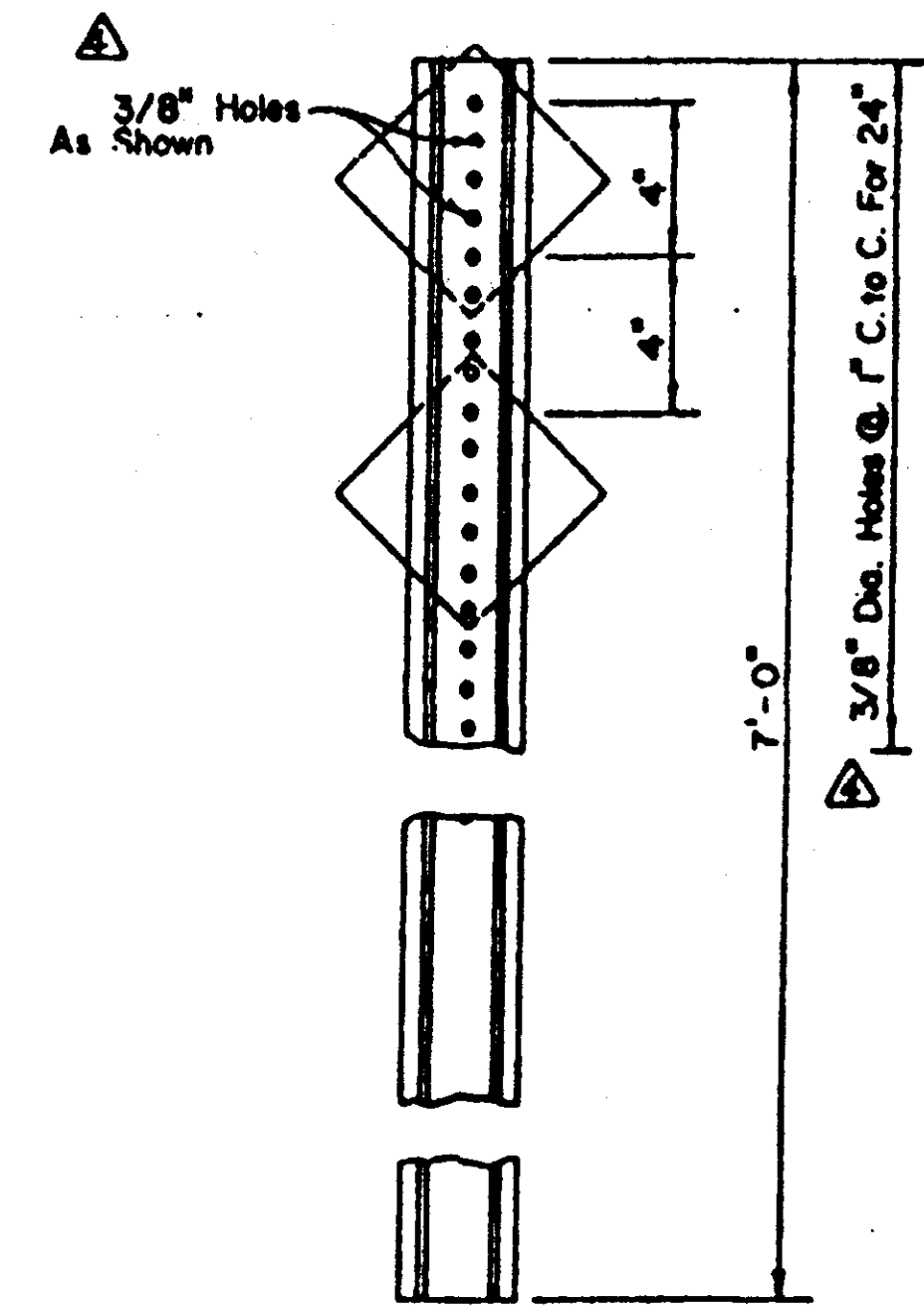


Type 3 object markers and mile signs are to be fastened to u-section posts with 5/16" huck fasteners or cherry rivets of the collar type or other approved equal.

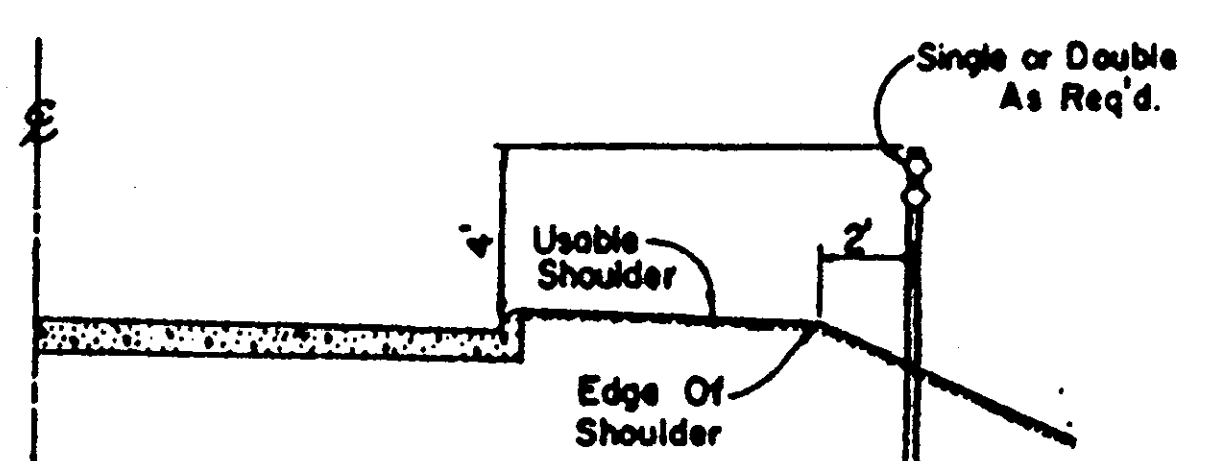
Delineators are to be fastened to u-section posts with 1/4" huck fasteners or cherry rivets of the collar type or other approved equal.



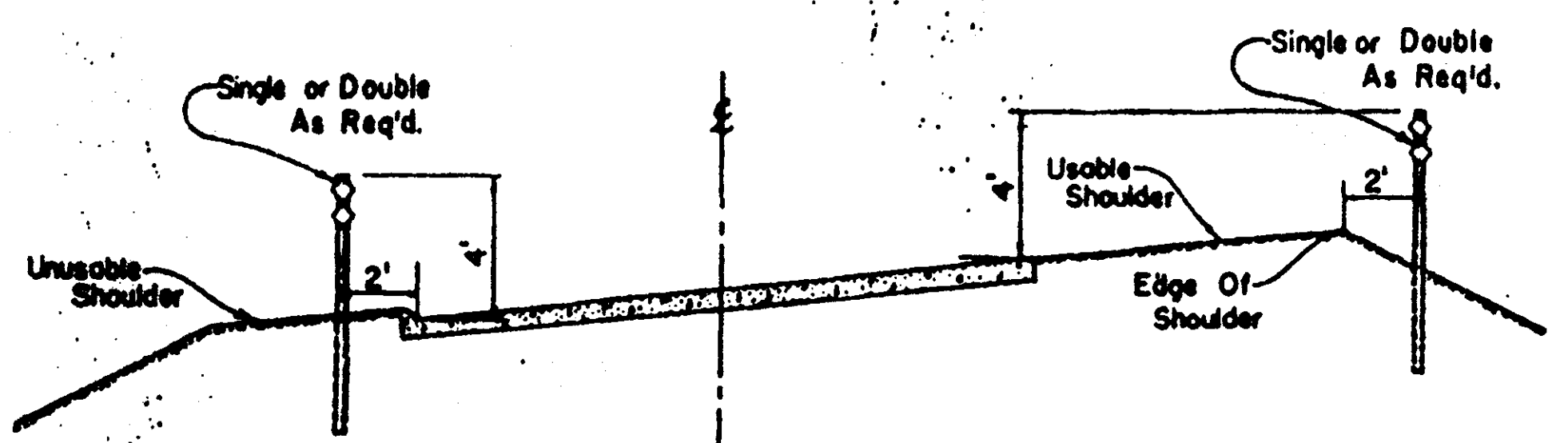
DELINEATOR MOUNTING ON OUTSIDE SHOULDER (SECTION ALONG MAIN FACILITY OR RAMP)



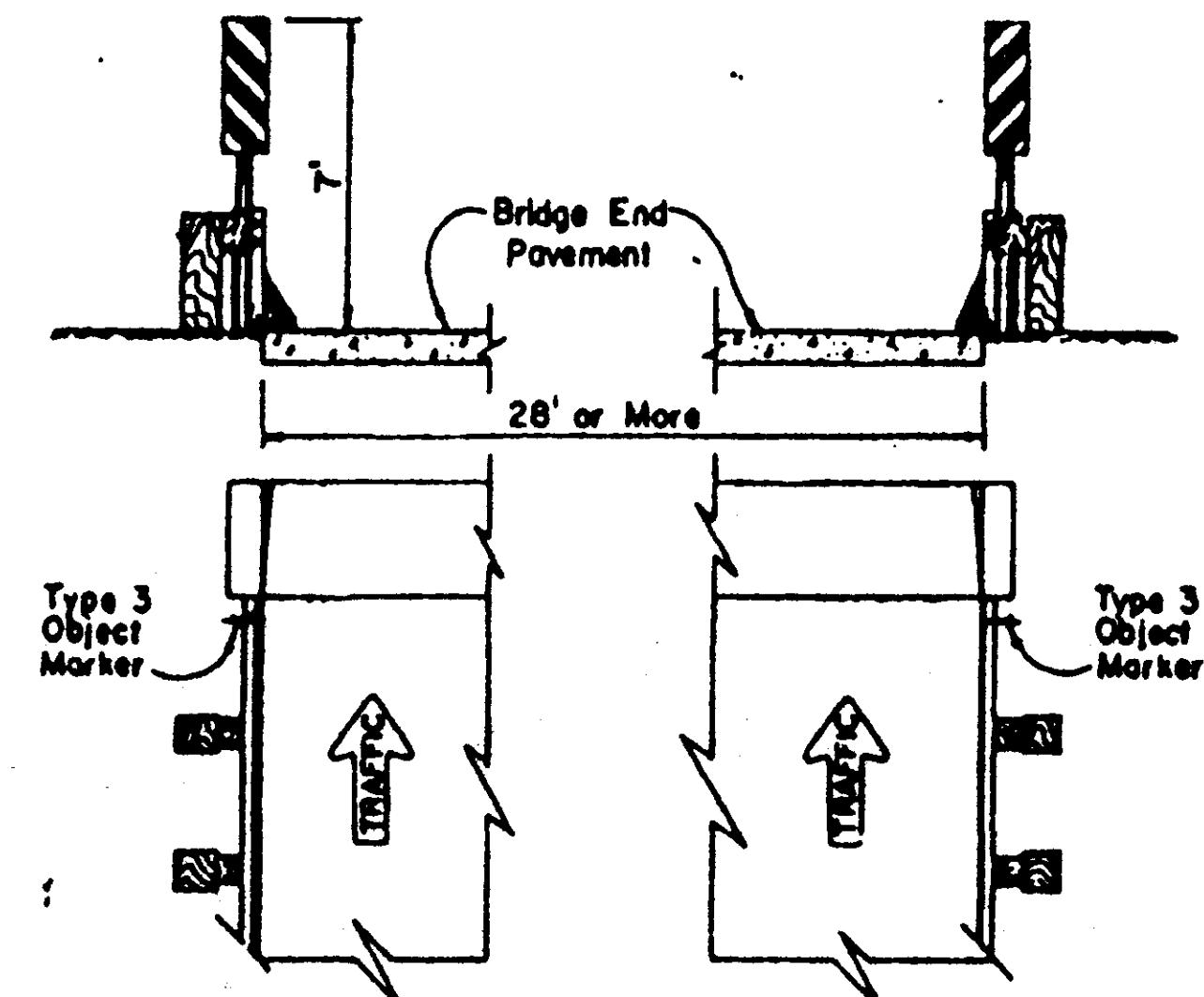
REAR VIEW OF DELINEATOR ASSEMBLY



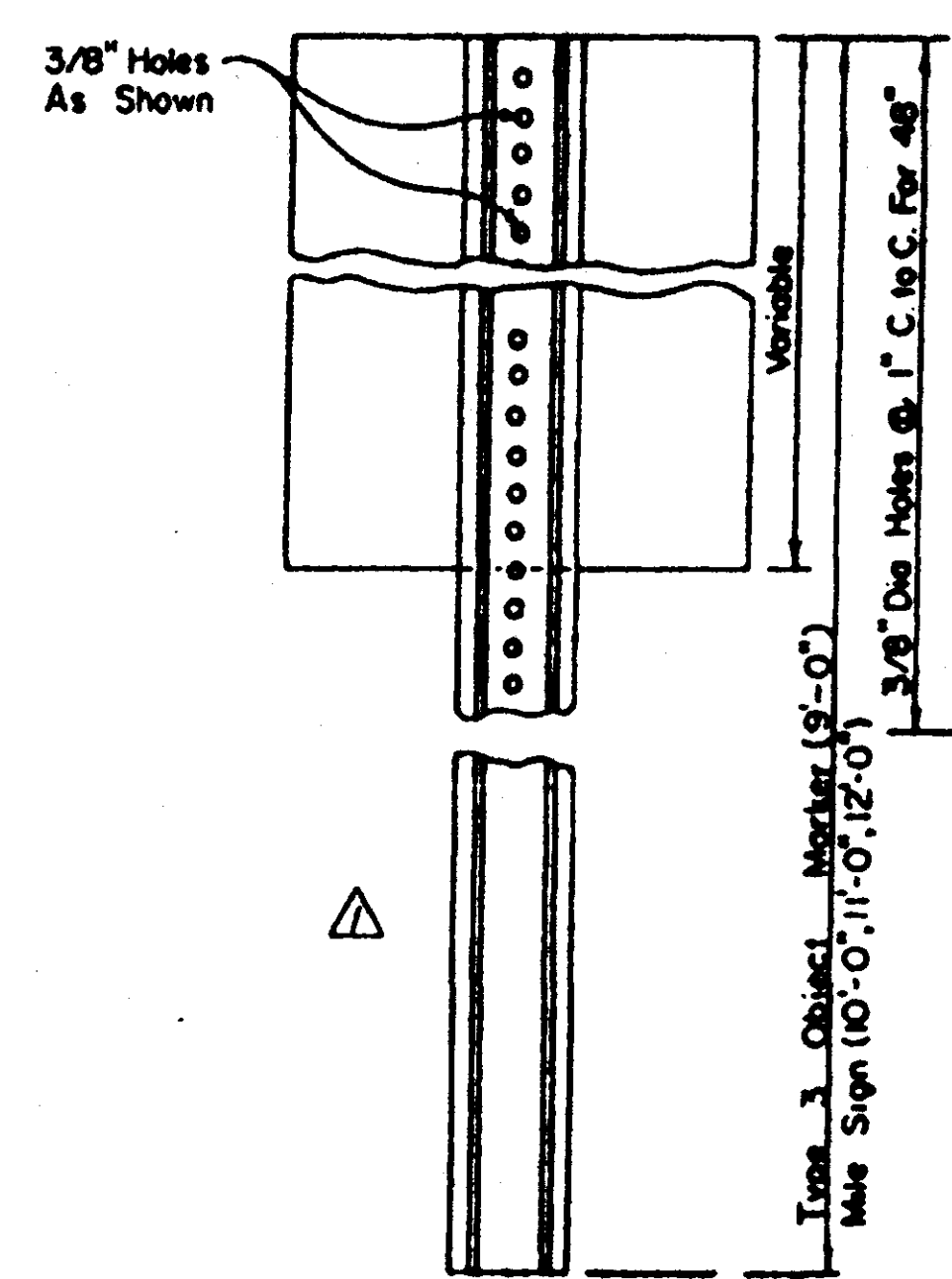
DELINEATOR MOUNTING ON OUTSIDE SHOULDER (SECTION WITH MOUNTABLE CURB ALONG MAIN FACILITY OR RAMP)



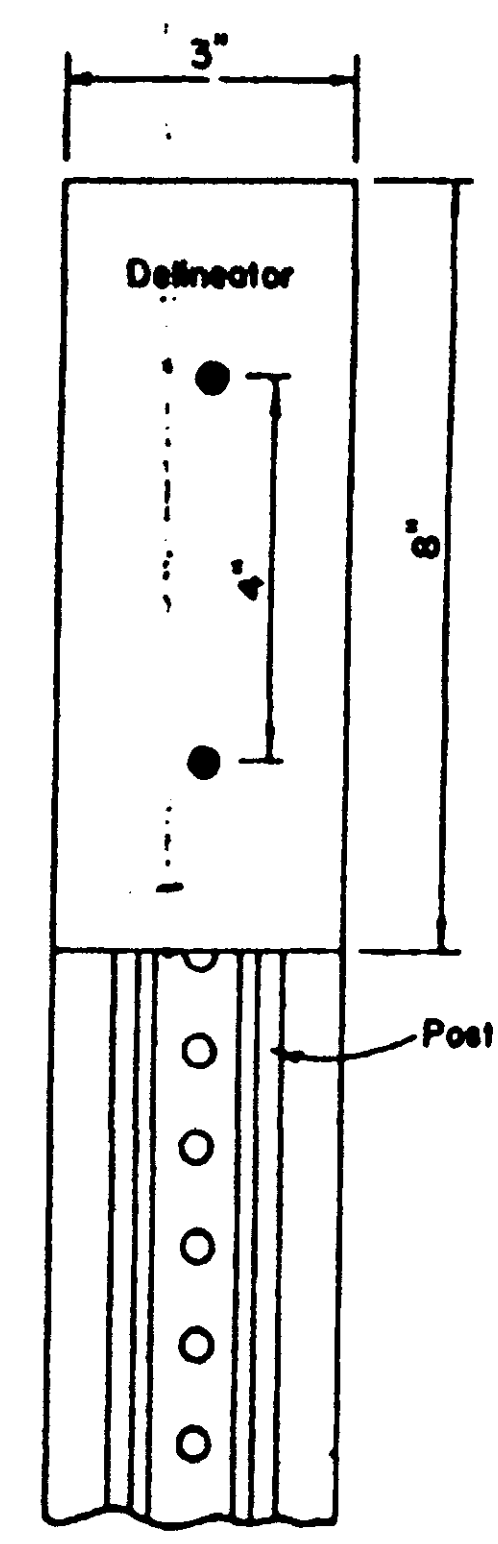
DELINEATOR MOUNTING ON INTERCHANGE LOOPS WITH UNMOUNTABLE CURB ON INSIDE



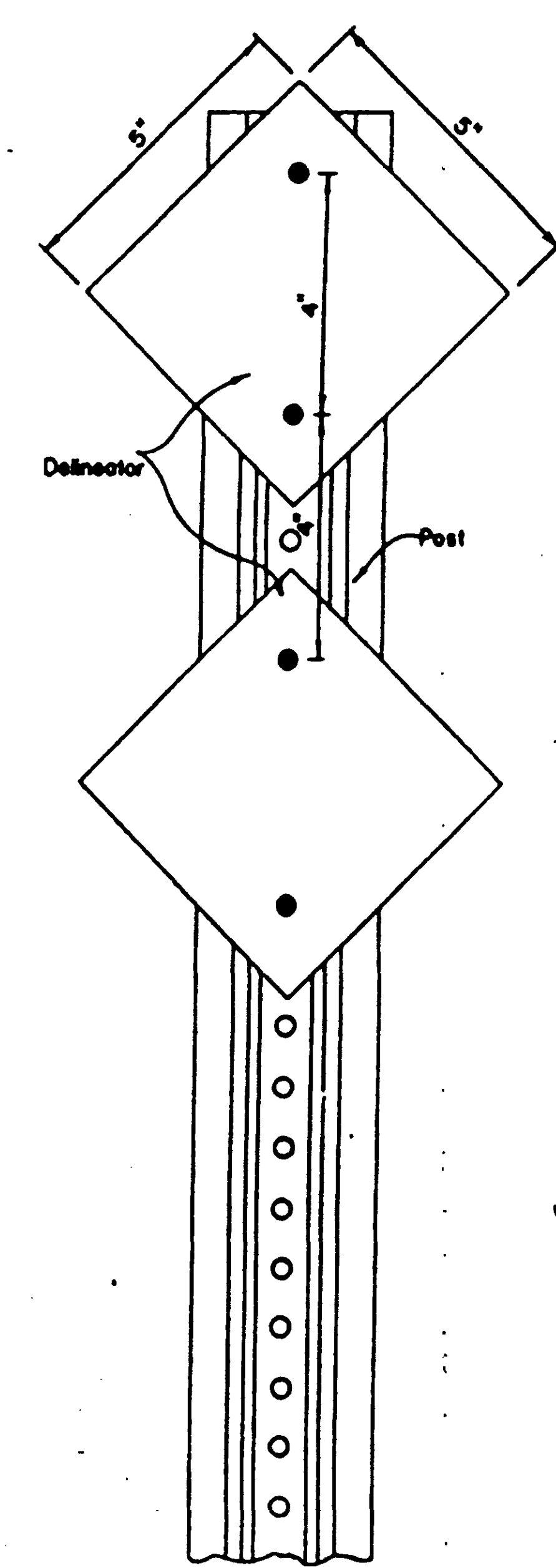
DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION



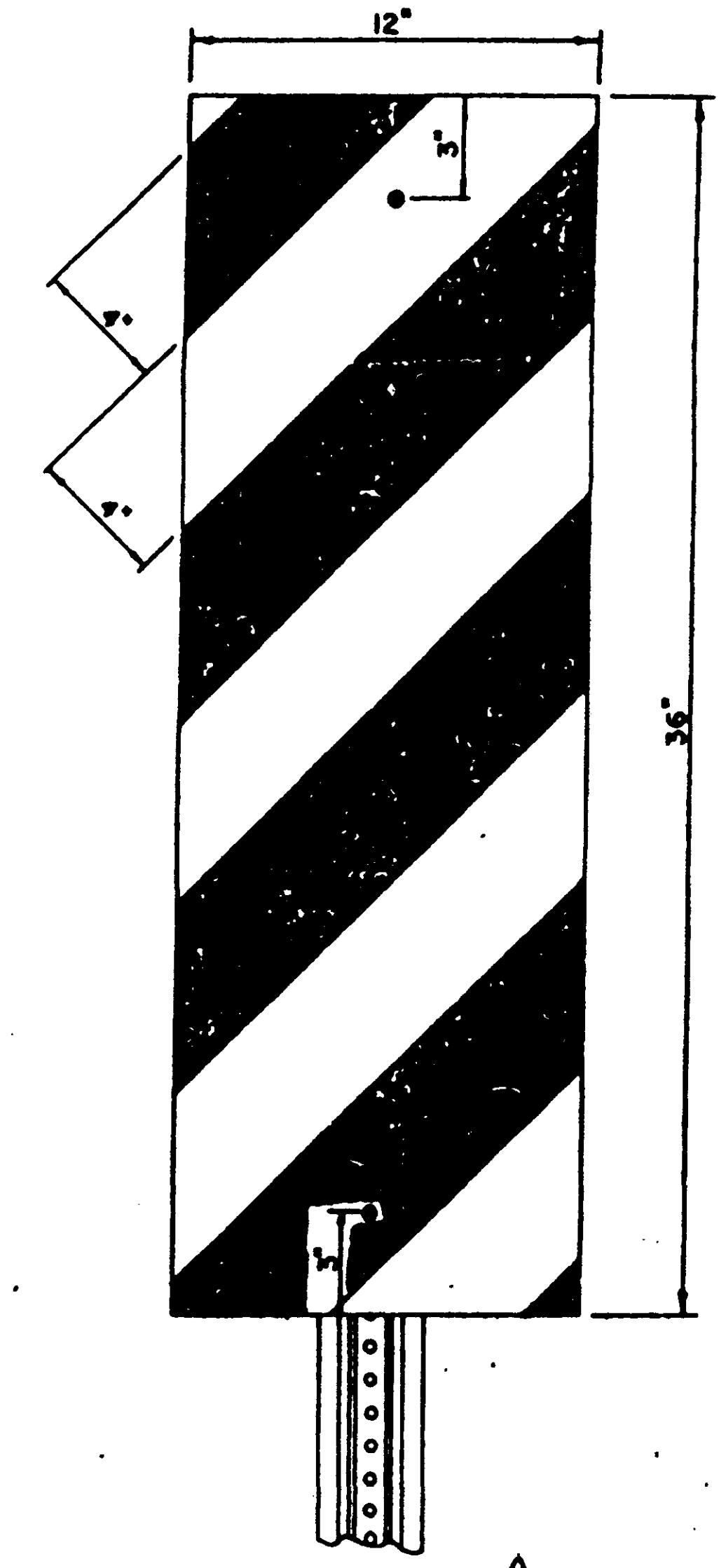
REAR VIEW OF TYPE 3 OBJECT MARKER OR MILE SIGN ASSEMBLY



DETAIL OF A SINGLE WHITE OR YELLOW DELINEATOR



DETAIL OF DOUBLE WHITE OR YELLOW DELINEATOR

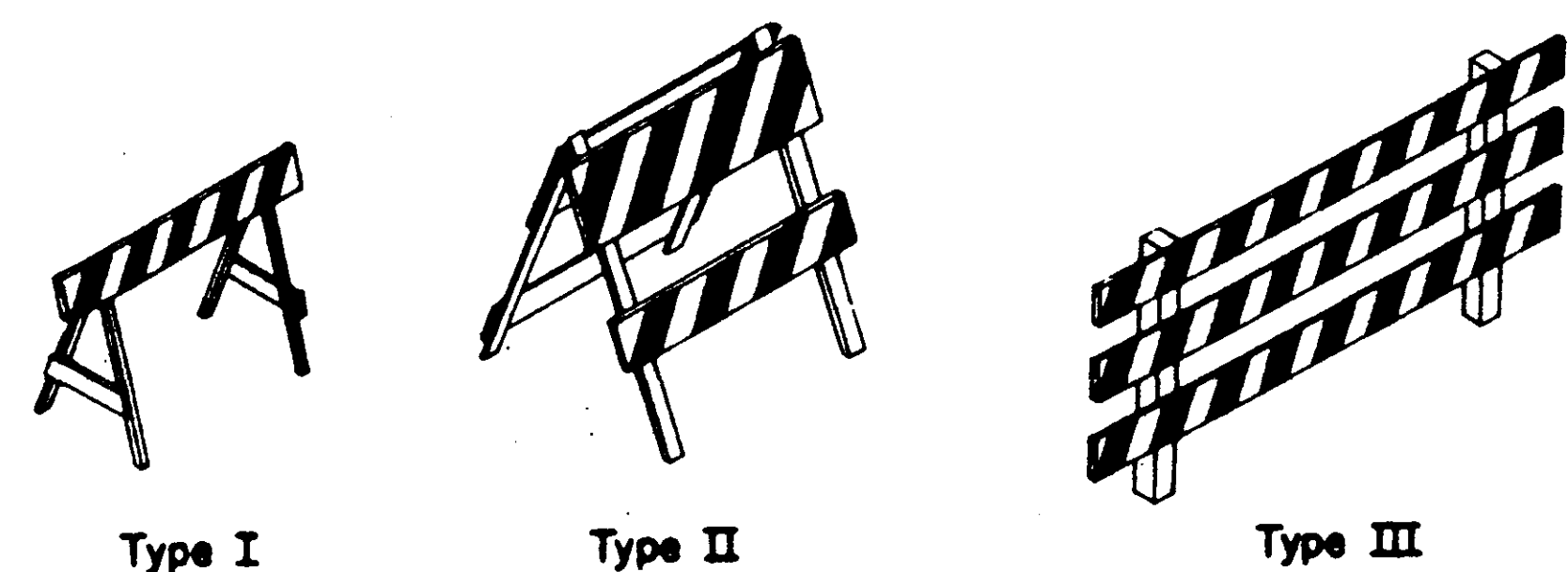


DETAIL OF TYPE 3 OBJECT MARKER Colors - Black and Yellow

NOTE: Striping shown above for right side only. Stripes slant downward to the right for left side of bridge end.

- NOTES:
- Delineators and Type 3 object marker shall be reflective sheeting on .080" aluminum sheet or 14 gage sheet steel which is galvanized.
 - Delineator, Type 3 object marker, and mile sign posts shall be galvanized steel. The post are to be fabricated before the metal is galvanized.
 - Weight without ground plates, delineator post 7' length - 2.0 to 2.5 lbs. per lin. ft., Type 3 object marker post 9' length - 2.5 to 3.0 lbs. per lin. ft., mile sign post shall be in three lengths (10'-0", 11'-0", & 12'-0") - 3.0 to 3.5 lbs. per lin. ft.
 - Unit price of delineators and Type 3 object markers shall include cost of post. Mile sign post will be paid for as lin. ft.
 - Radius in bands of post cross section not to exceed 13/32" for hot rolled section.
 - GROUND PLATE NOT REQUIRED ON U-SECTION POST.

MISSISSIPPI STATE HIGHWAY DEPARTMENT			
TYP. INSTALLATION AND DETAILS OF DELINEATORS AND MILEPOSTS			
DESIGNED	DRAWN	CHECKED	DATE
APPROVED	ISSUED	DATE	
REVISIONS			WORKS NUMBER SN-9
			SHEET NUMBER 128



Standard Barricades

A Type I Barricade consists of one (1) horizontal rail supported by a demountable frame or a light "A" frame.

A Type II Barricade consists of two (2) horizontal rails on a light "A" frame.

A Type III Barricade consists of three (3) horizontal rails supported by fixed posts, a rigid skid, a heavy demountable frame or a heavy, hinged, "A" frame.

Type I and Type II Barricade are intended for use where the hazard is relatively small as, for example, on city streets, or for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

NOTE: Do not place sandbags or other weighting devices on the bottom rail that will block view of rail face.

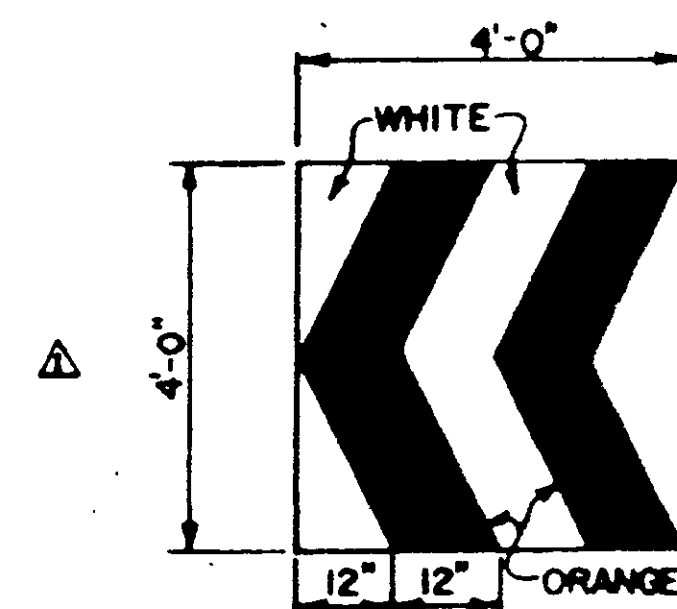
Type III Barricades are intended for use on construction and maintenance projects as wing barricades and at road closures, where they must remain in place for extended periods.

The marking for barricade rails shall be orange and white (sloping downward at an angle of 45 degrees in the direction traffic is to pass).



FOR ADDITIONAL INFORMATION OR DETAILS SEE MUTCD SECTION 6-C.

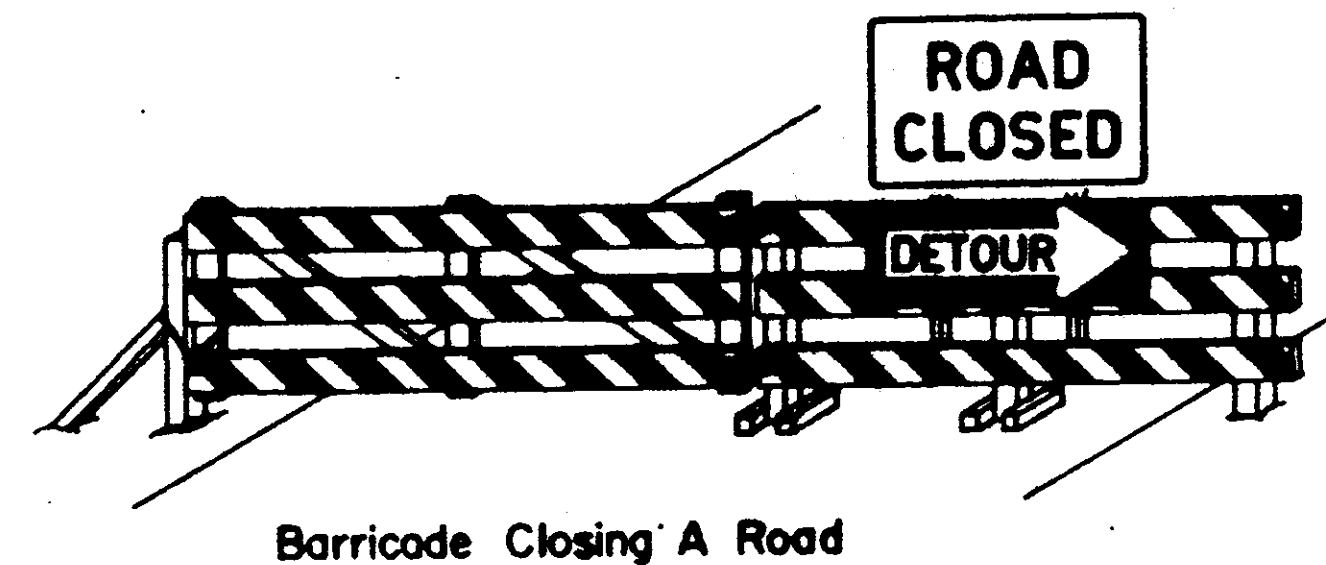
CHEVRON PANEL DETAIL



A Chevron Panel consists of chevron type markings of alternate orange and white and shall point in the direction of traffic flow.

The complete Chevron Panel shall be mounted on fixed post or rigid skid.

Chevron Panels may be used to supplement other standard devices when closing one or more lanes for construction or maintenance. They shall be placed approximately 2 feet behind lane transition strips.



Barricade Closing A Road

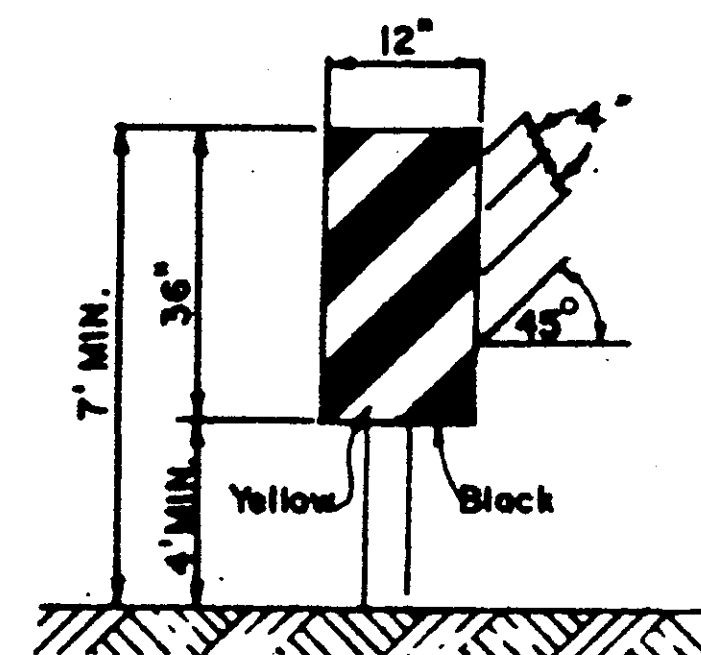
Barricade Characteristics

	I	II	III
Width of rail ***	8" min. - 12" max.	8" min. - 12" max.	8" min - 12" max.
Length of rail ***	2' min	2' min.	4' min
Width of stripe	6" ***	6" ***	6"
Height	3' min	3' min	5' min
Number of reflectorized rail faces	2 (one each direction)	4 (two each direction)	3 if facing traffic in one direction 6 if facing traffic in two directions
Type of frame	light	light "A" frame	post or skid

***For rails less than 3 feet long, 4 inch wide stripes shall be used.

*** Barricades intended for use on expressway, freeways and other high speed roadways, shall have a minimum of 270 square inches of reflective area facing traffic.

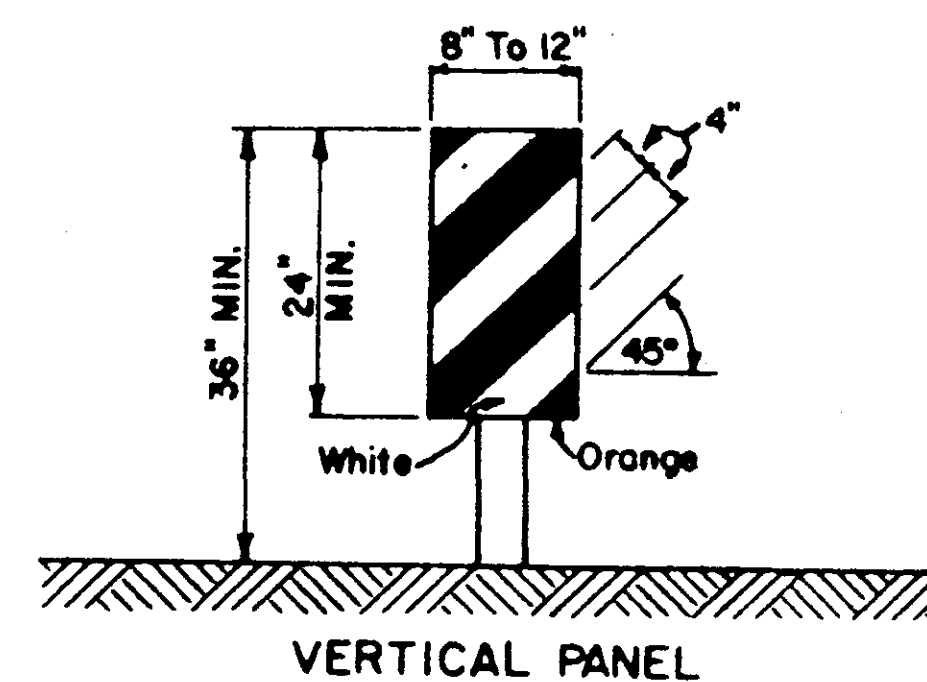
TYPE 3 OBJECT MARKER (OM-3R)



Type 3 Object Markers shall be used at all exposed bridge abutments and at other locations as deemed necessary by the engineer.

The OM-3R is shown. The OM-3L is similar except the stripes slope downward from the upper left side to the lower right side and shall be placed on the left side of the object.

The inside edge of the marker shall be in line with the inner edge of the obstruction.

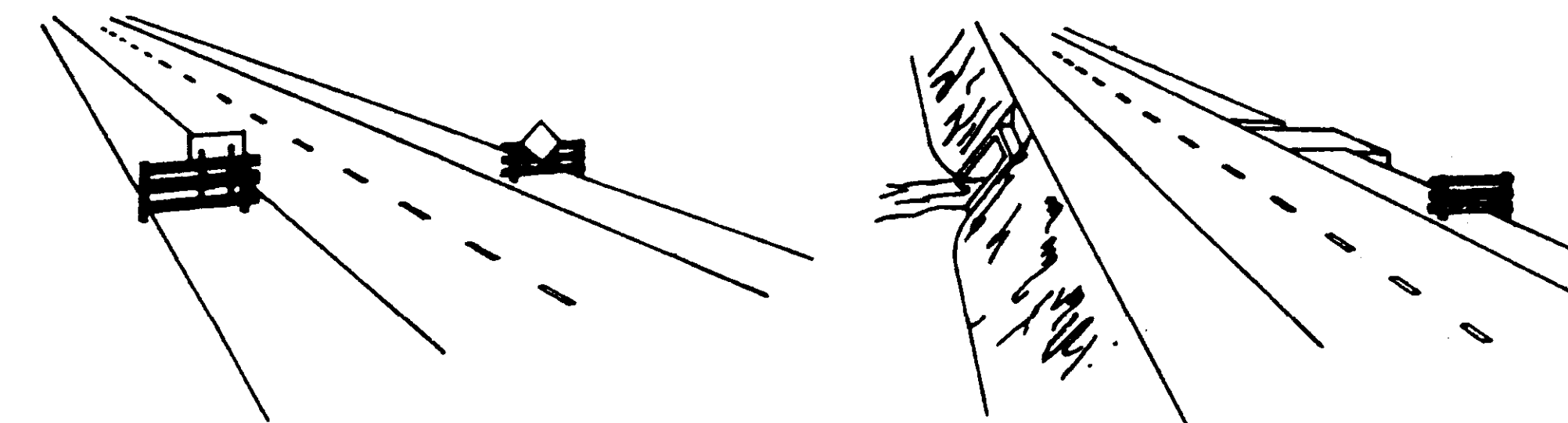


Vertical panels consist of at least one panel 8" to 12" in width and a minimum of 24" in height. The diagonal stripes shall slope downward in the direction that traffic is to pass the panel. The panels shall be mounted with the top a minimum of 36" above the roadway on a single lightweight post.

NOTE:

Markings on all devices shown on this sheet shall be high intensity reflective sheeting.

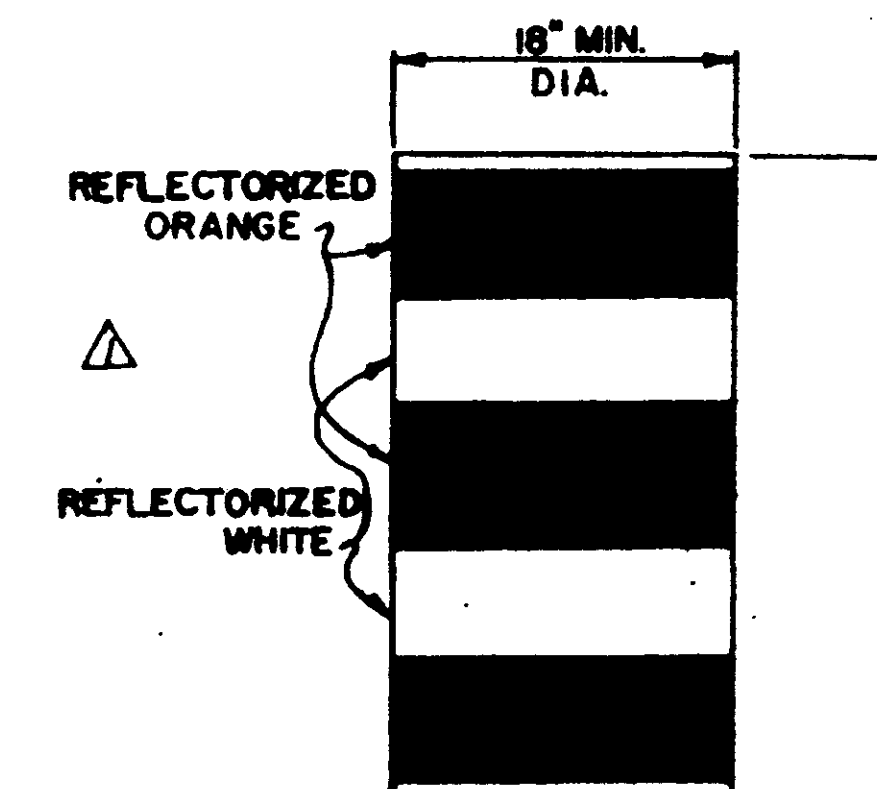
The Traffic Control Plan will list the various Traffic Control Devices required for each project.



Wing Barricades



- Wing barricades are Type III barricades erected on the shoulder on one or both sides of the pavement to give the sensation of a narrowing or restricted roadway. Wing barricades may be used as a mounting for the advance warning signs or flashers.
- Wing barricades should be used:
 - in advance of a construction project even when no part of the roadway is actually closed.
 - in advance of all bridge or culvert widening operations.

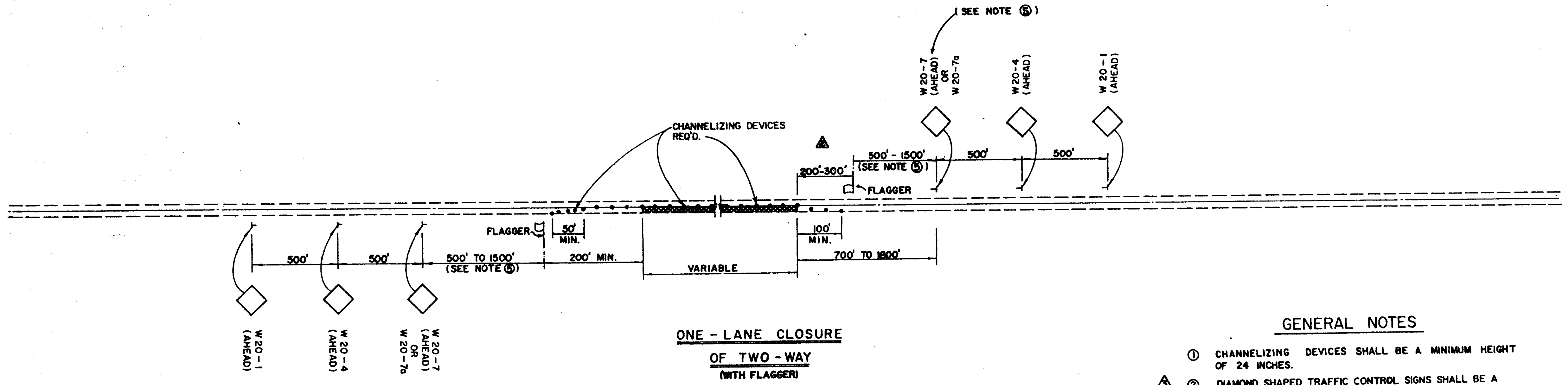


PLASTIC DRUM STRIPING DETAIL

Plastic drums shall be on end and used as an expedient method for traffic channelization. The color and marking of drums shall be consistent with marking standards for barricade. The predominant color on drums shall be orange with four (4) reflectorized, horizontal, circumferential stripes (2 orange & 2 white) 6" wide.

Drums should never be placed in the roadway without warning signs. Where practical plastic drums shall be placed no closer than three (3) feet from the edge of traveled lane.

MISSISSIPPI STATE HIGHWAY DEPARTMENT			
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECT			
DESIGNED	DRAWN	TRACED	WORKING NUMBER SN-10
CHECKED	DATE	DATE	SHEET NUMBER 100

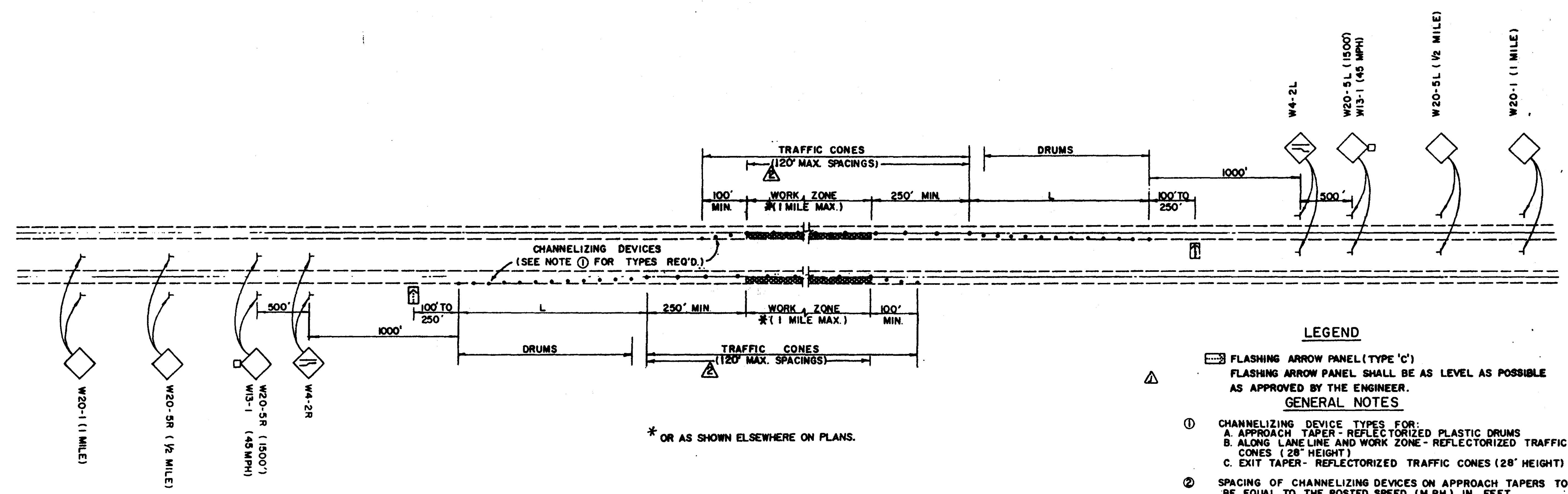


**ONE - LANE CLOSURE
OF TWO - WAY
(WITH FLAGGER)**

GENERAL NOTES

- ① CHANNELIZING DEVICES SHALL BE A MINIMUM HEIGHT OF 24 INCHES.
- ② DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" x 48".
- ③ SPACING OF CHANNELIZING DEVICES ALONG LANE LINE AND WORK ZONE TO BE EQUAL TO THE POSTED SPEED (M.P.H.) IN FEET.
- ④ WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
- ⑤ WHEN THE WORK ZONE IS STATIONARY, THE W20-7 OR W20-7a SIGN SHOULD BE PLACED 500' IN ADVANCE OF THE FLAGGER AND SHOULD INDICATE (500') AS THE DISTANCE.
- ⑥ ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

MISSISSIPPI STATE HIGHWAY DEPARTMENT			
TRAFFIC CONTROL PLAN			
(ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)			
DESIGNED	DRAWN	TRACED	DATE
CHECKED	ISSUED		DATE 8-18-86
WORKING NUMBER TCP-1			SHEET NUMBER 190



* OR AS SHOWN ELSEWHERE ON PLANS.

LEGEND

- ① FLASHING ARROW PANEL (TYPE 'C')
- FLASHING ARROW PANEL SHALL BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER.

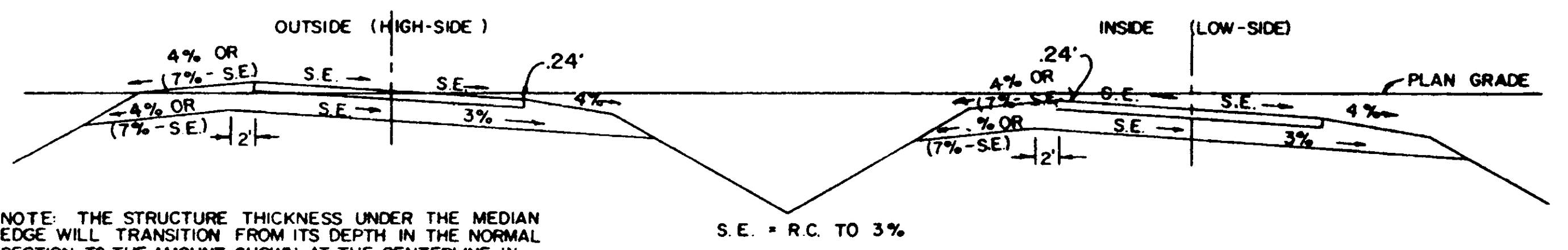
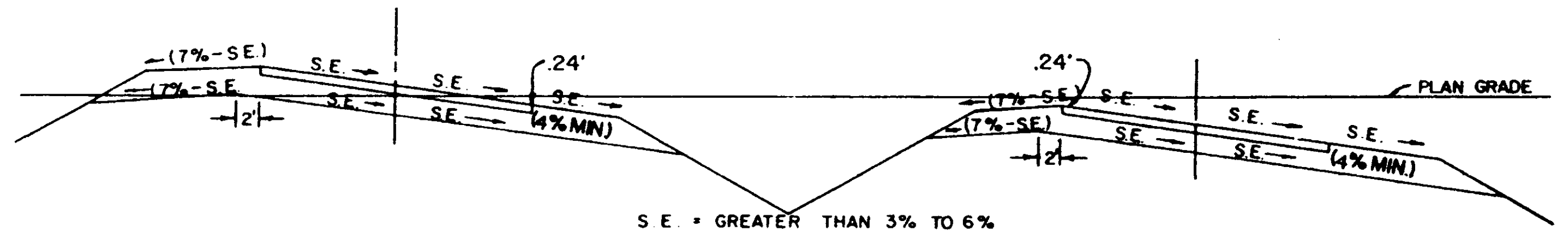
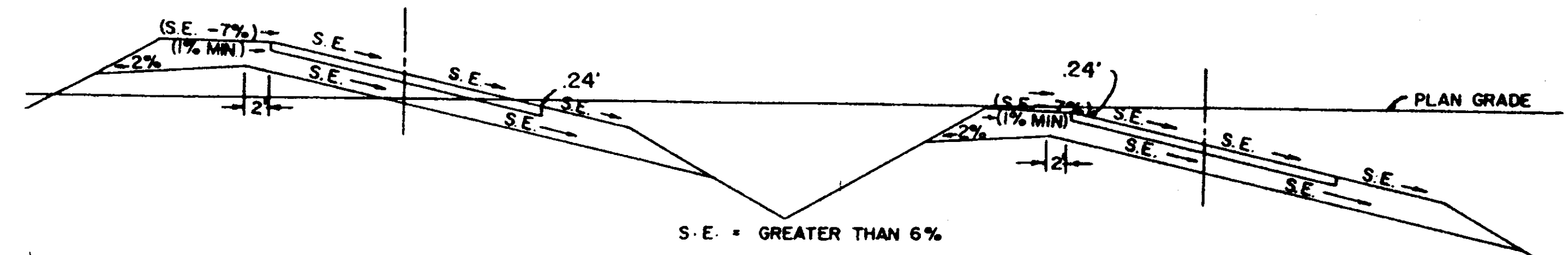
GENERAL NOTES

- ① CHANNELIZING DEVICE TYPES FOR:
 - A. APPROACH TAPER - REFLECTORIZED PLASTIC DRUMS
 - B. ALONG LANE LINE AND WORK ZONE - REFLECTORIZED TRAFFIC CONES (28" HEIGHT)
 - C. EXIT TAPER - REFLECTORIZED TRAFFIC CONES (28" HEIGHT)
- ② SPACING OF CHANNELIZING DEVICES ON APPROACH TAPERS TO BE EQUAL TO THE POSTED SPEED (M.P.H.) IN FEET.
- ③ WHEN THERE IS NO EXISTING HAZARD, THE LANE CLOSURE (W20-5), LANE TRANSITION (W4-2), AND NO PASSING (R4-1) SIGNS ARE TO BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.
- ④ $L = W \times S$ FOR SPEEDS OF 45 M.P.H. OR GREATER
 $L = \frac{W \times S^2}{60}$ FOR SPEEDS OF 40 M.P.H. OR LESS
 WHERE: L = MIN. LENGTH OF TAPER
 W = WIDTH OF OFFSET (NORMALLY LANE WIDTH)
 S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85th PERCENTILE SPEED.
- ⑤ FOR MOVING OPERATIONS (PAVING), THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARDS. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS, AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS, AND ARROW BOARD ON THE FIRST ZONE.
- ⑥ ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
- ⑦ DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" x 48". SPEED PLATES SHALL BE 24" x 24".

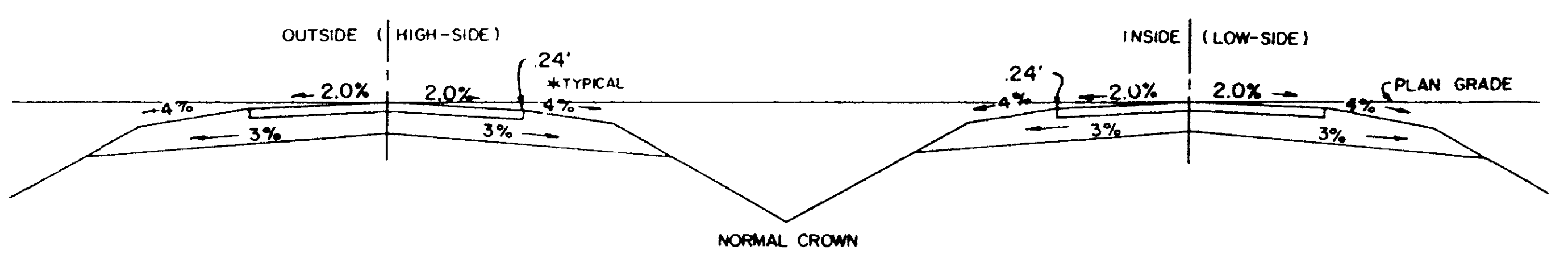
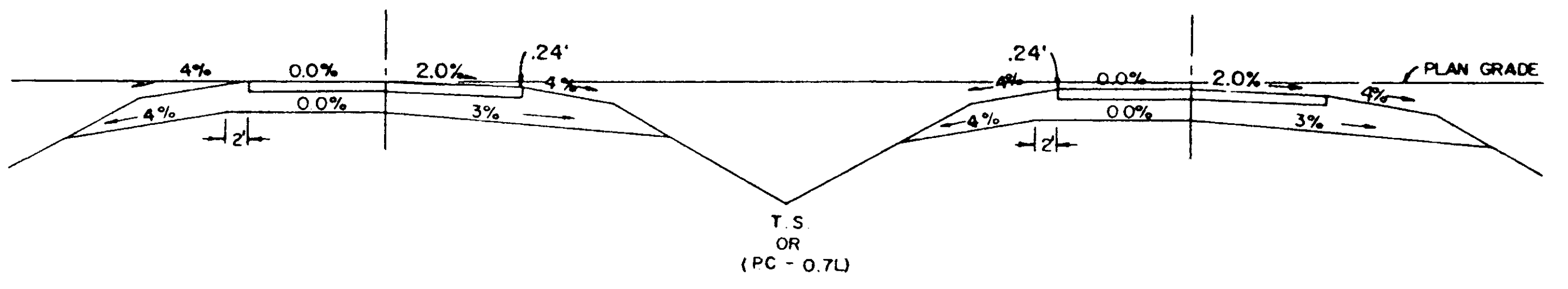
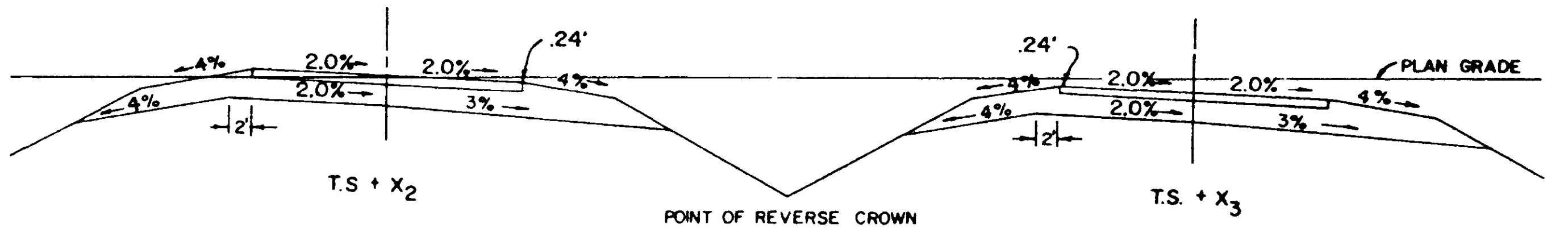
MISSISSIPPI STATE HIGHWAY DEPARTMENT	
TRAFFIC CONTROL PLAN	
(4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)	
DESIGNED	DATE
DETAILED	DATE
TRACED	DATE
CHECKED	DATE
REVISIONS	DATE
DATE	DATE

WORKING NUMBER	TCP-2
SHEET NUMBER	191

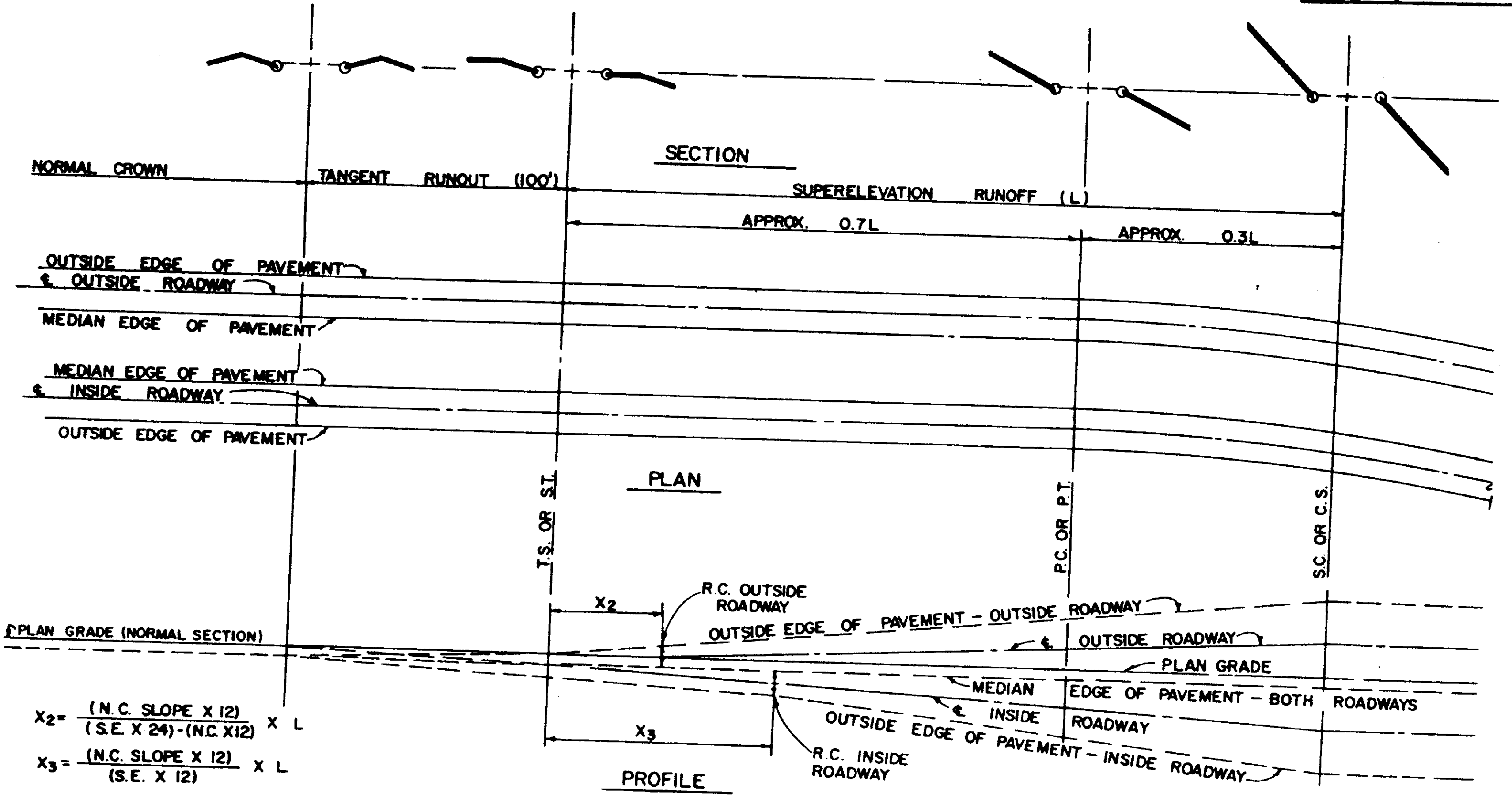
DRAWING 44-11-1000



NOTE: THE STRUCTURE THICKNESS UNDER THE MEDIAN EDGE WILL TRANSITION FROM ITS DEPTH IN THE NORMAL SECTION TO THE AMOUNT SHOWN AT THE CENTERLINE IN THE NORMAL SECTION THIS TRANSITION WILL ONLY OCCUR WHEN THE S.E. EQUALS OR EXCEEDS 3%.



* OR AS SHOWN ELSEWHERE ON THE PLANS



$$X_2 = \frac{(N.C. SLOPE \times 12)}{(S.E. \times 24) - (N.C. \times 12)} \times L$$

$$X_3 = \frac{(N.C. SLOPE \times 12)}{(S.E. \times 12)} \times L$$

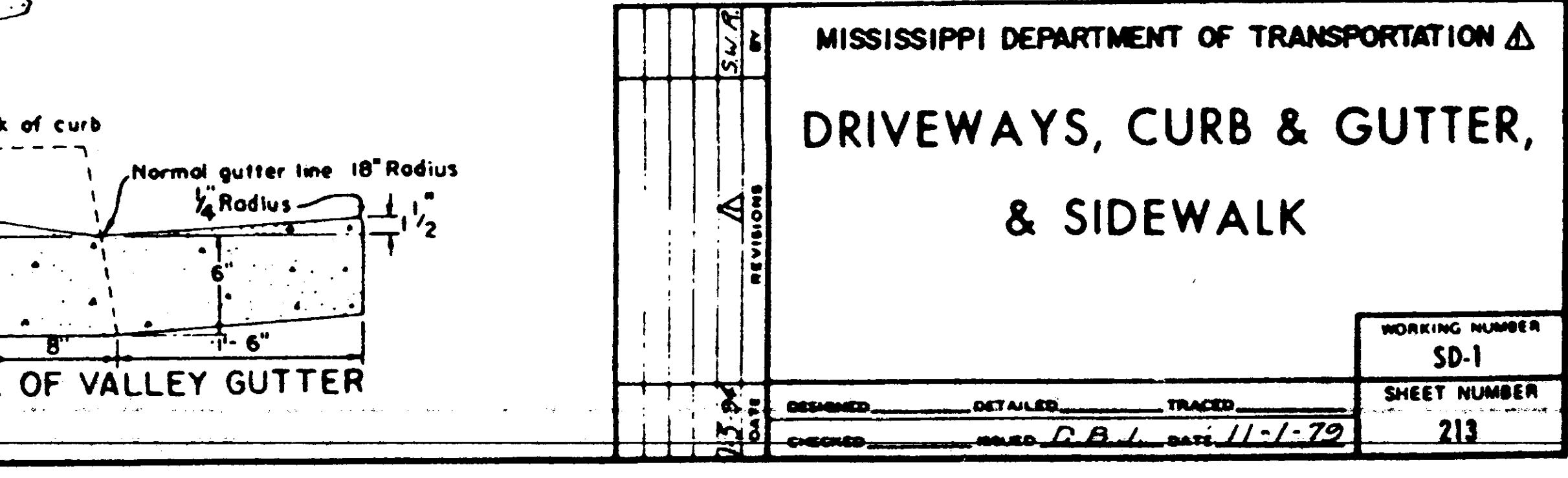
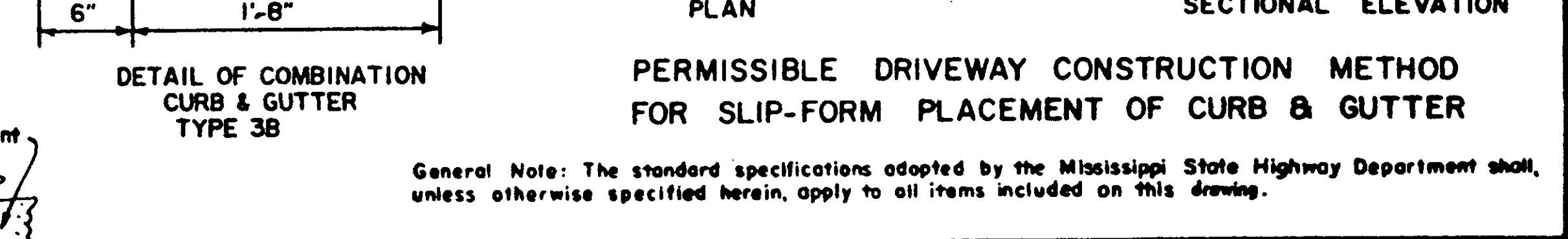
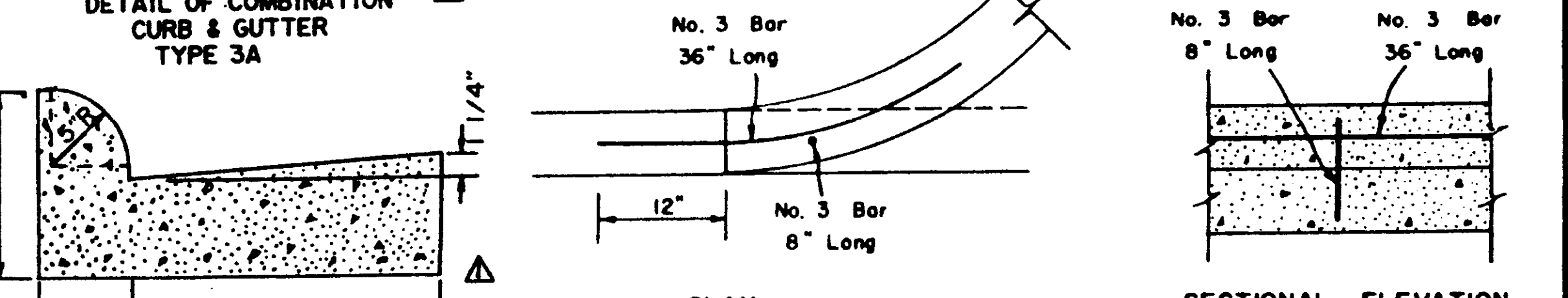
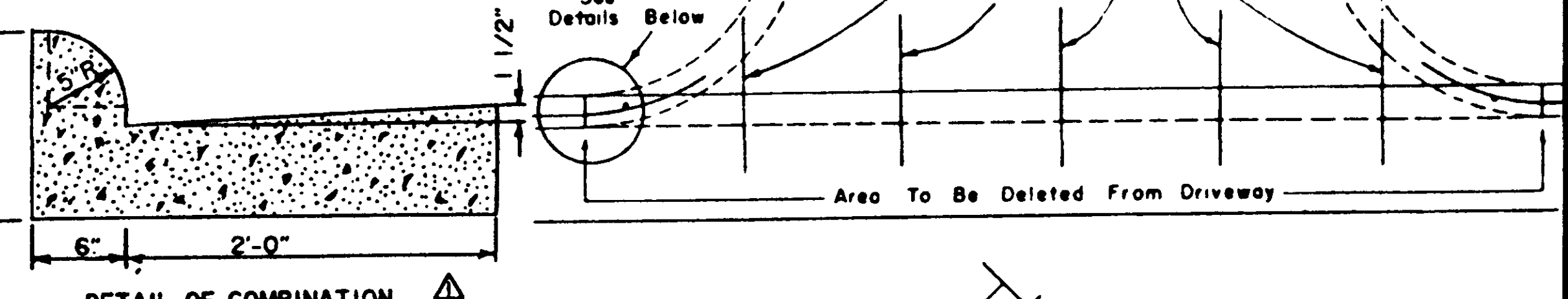
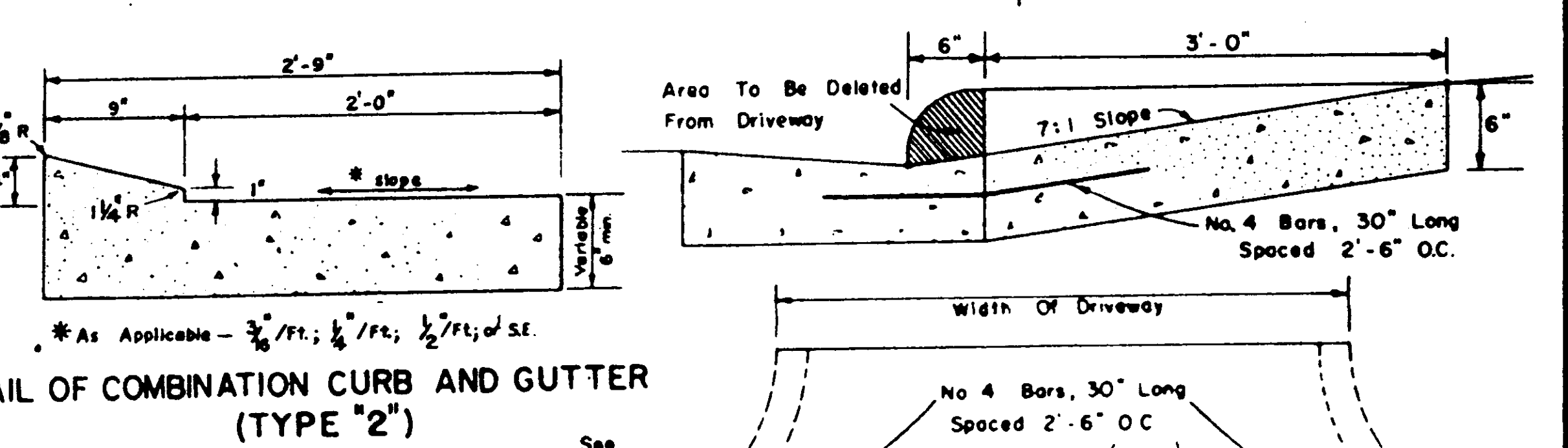
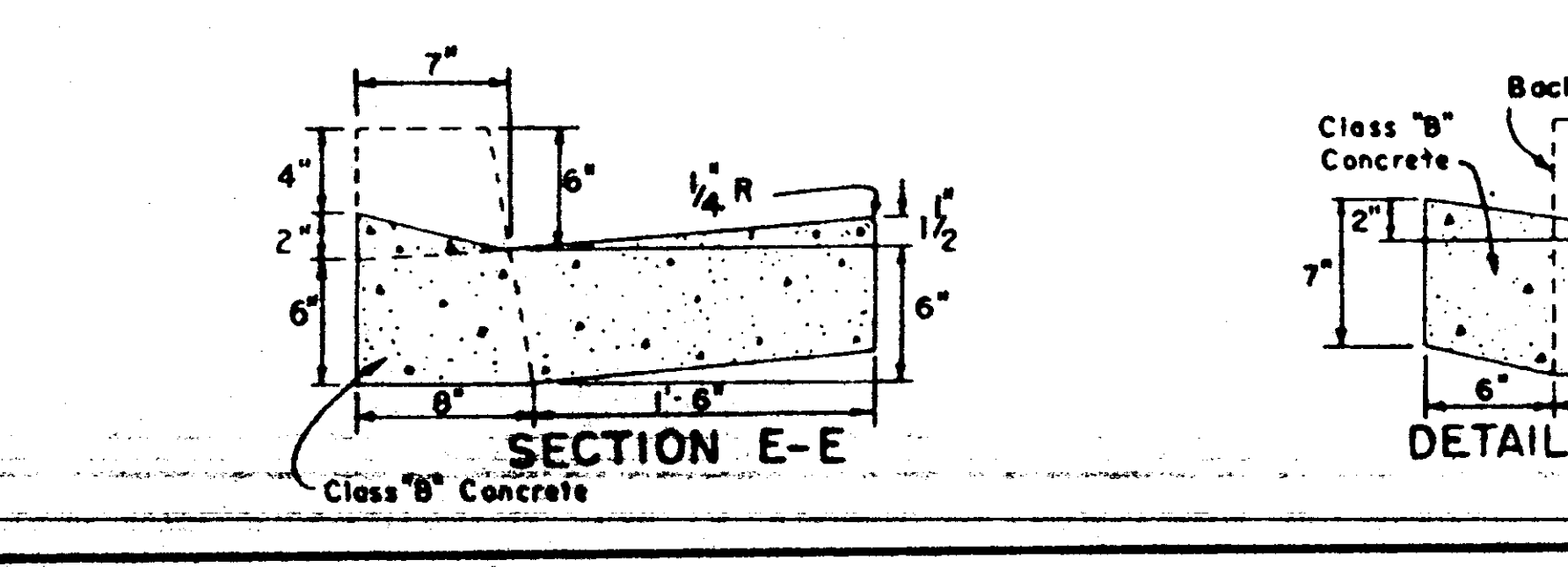
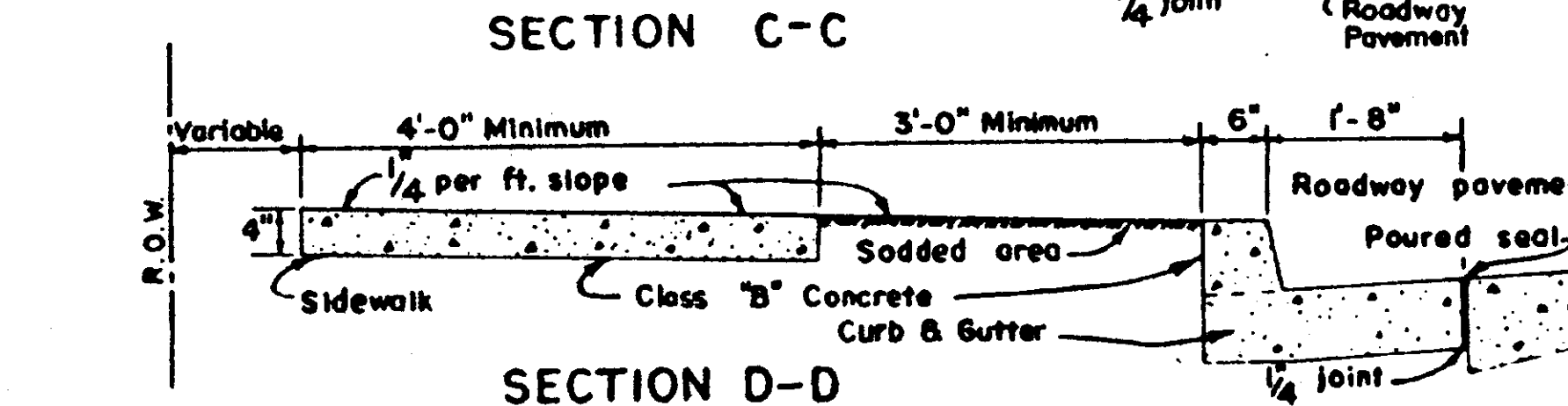
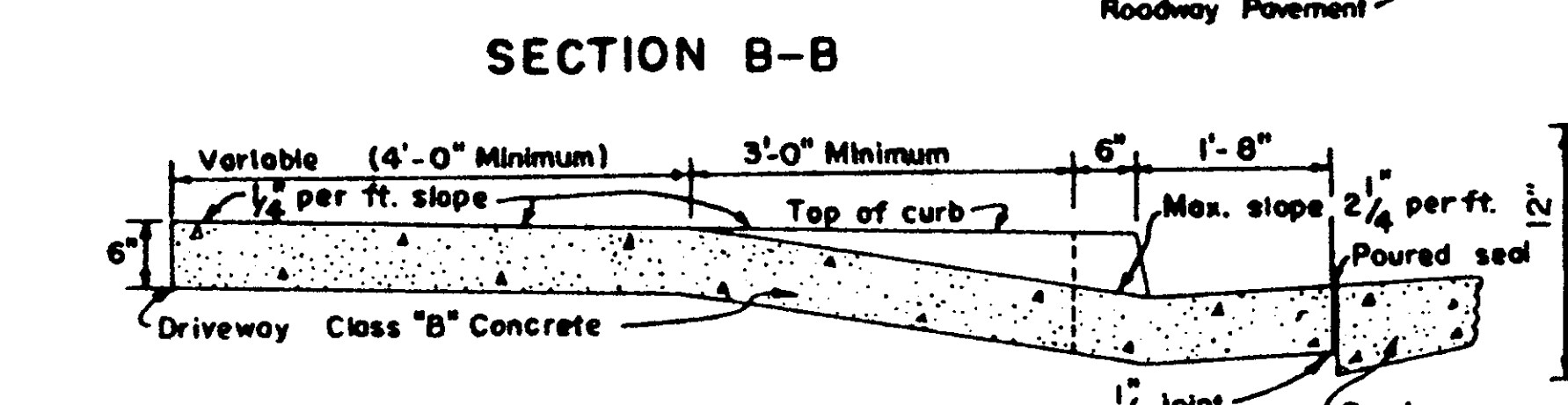
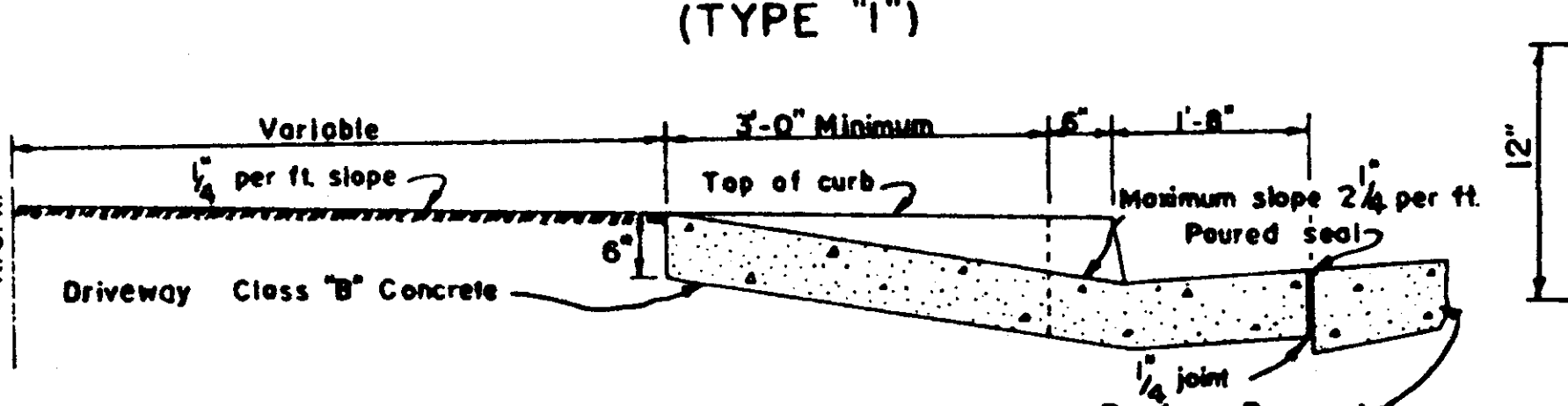
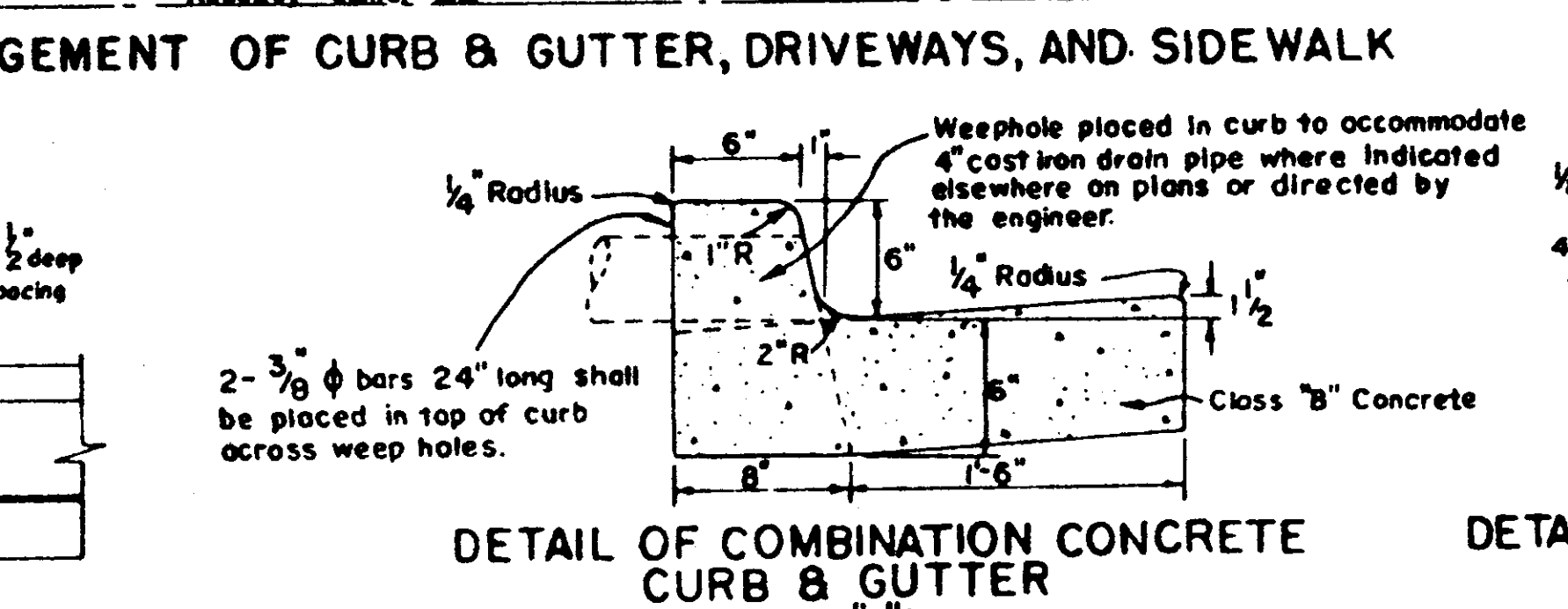
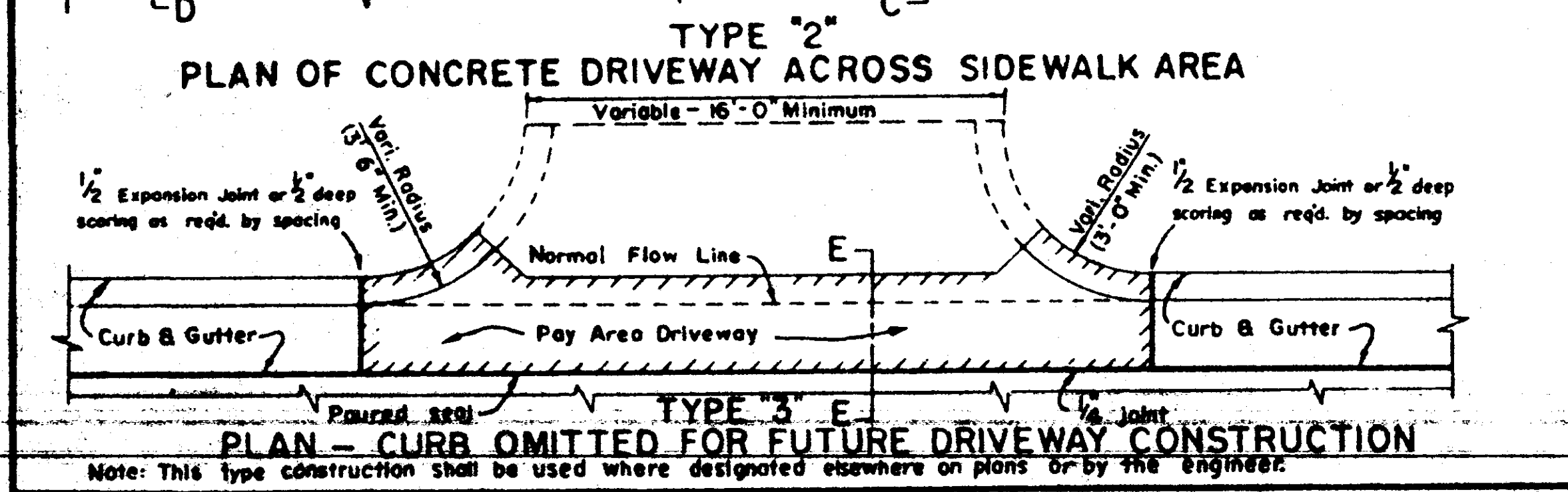
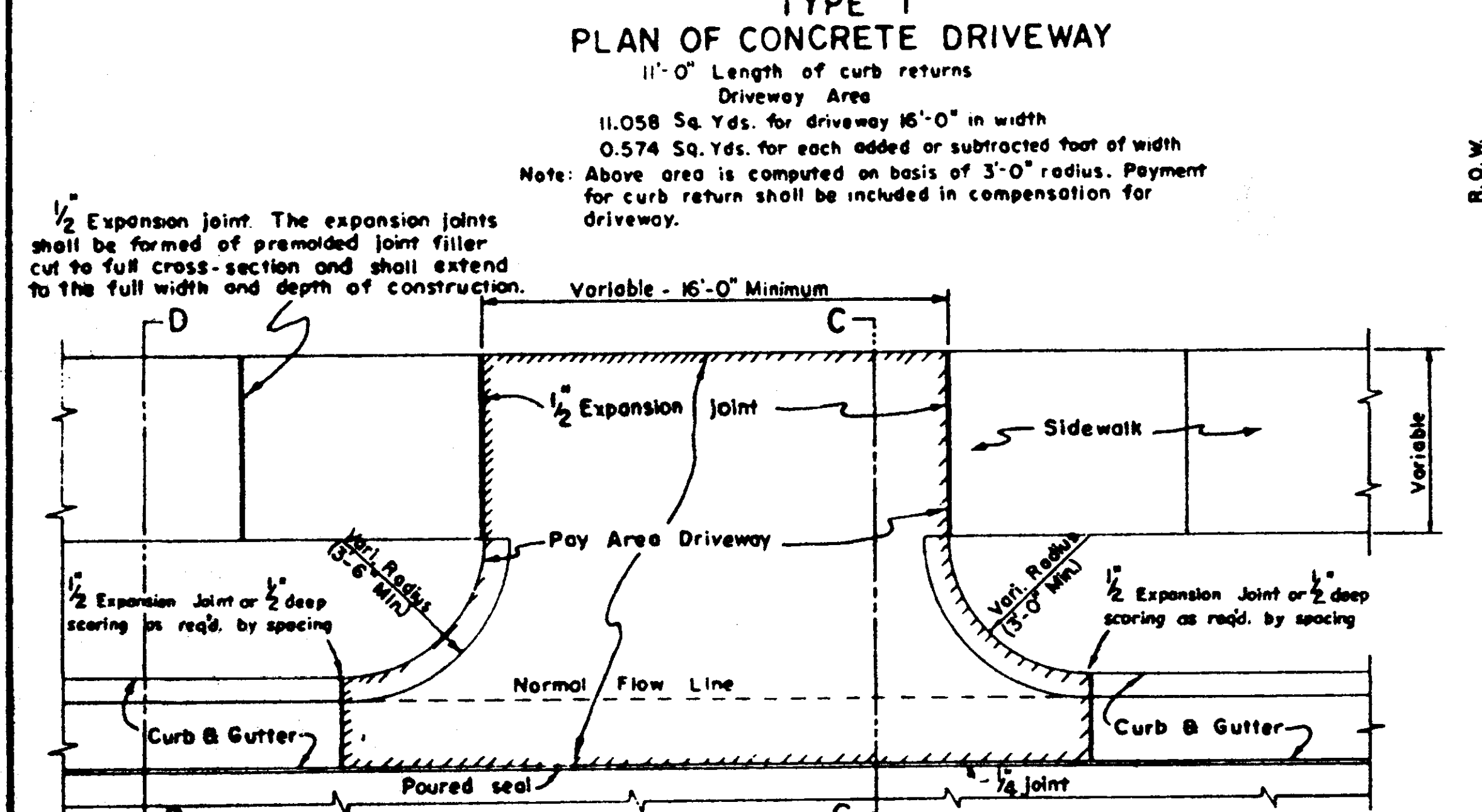
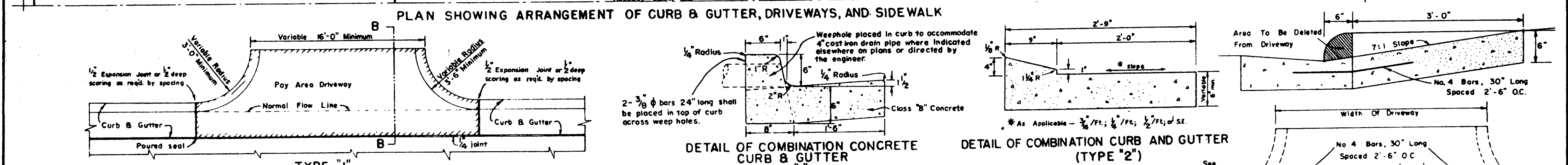
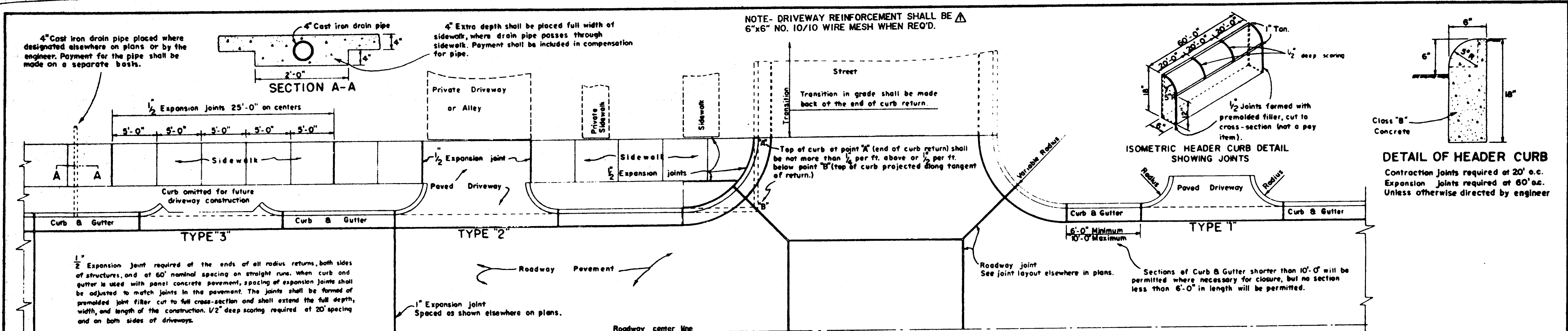
D	V = 40 mph		V = 50 mph		V = 60 mph		V = 65 mph		V = 70 mph	
	e	L (ft)	e	L (ft)	e	L (ft)	e	L (ft)	e	L (ft)
0° 15'	NC	0	NC	0	NC	0	NC	0	NC	0
0° 30'	NC	0	NC	0	RC	175	RC	190	RC	200
0° 45'	NC	0	RC	150	.023	175	.025	190	.028	200
1° 00'	RC	125	031	150	.043	190	.048	220	.054	260
2° 00'	.028	125	.040	150	.055	230	.062	290	.070	330
2° 30'	.034	125	.049	180	.067	280	.075	330	.085	390
3° 00'	.040	125	.057	210	.077	320	.087	380	.096	420
3° 30'	.046	140	.065	240	.086	350	.095	400	.100	450
4° 00'	.051	160	.072	260	.093	380	.099	420		
5° 00'	.061	190	.083	300	.098	400				
6° 00'	.070	220	.092	330						
7° 00'	.078	240	.098	350						
8° 00'	.084	260	.100	360						
9° 00'	.089	280								
10° 00'	.094	290								
11° 00'	.097	310								
12° 00'	.099	310								
13° 00'	.100	320								

D = DEGREE OF CURVE
V = ASSUMED DESIGN SPEED
e = RATE OF SUPERELEVATION
L = MINIMUM LENGTH OF RUNOFF
NC = NORMAL CROWN SECTION
RC = REMOVE ADVERSE CROWN, SUPERELEVATE AT NORMAL CROWN SLOPE

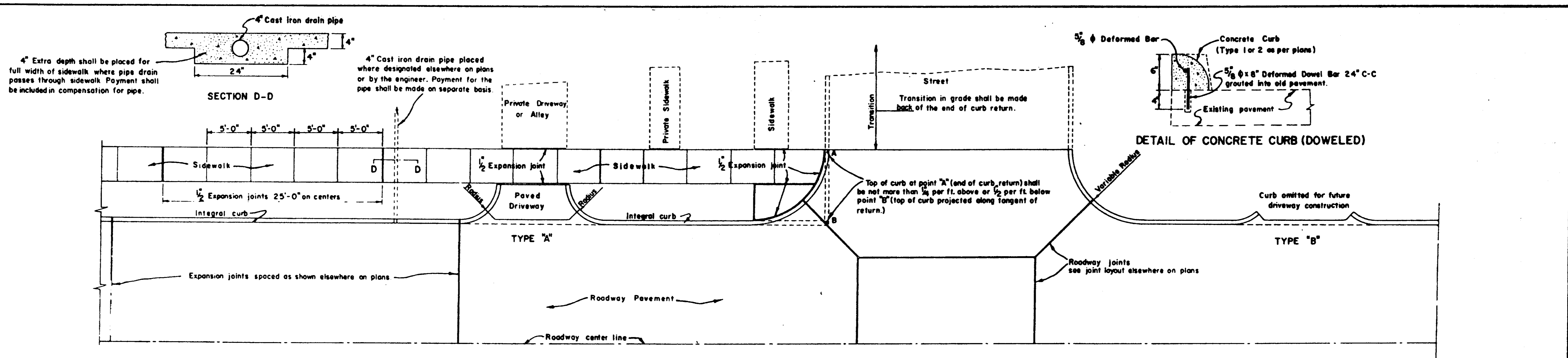
NOTES

1. SPIRAL TRANSITION CURVES SHOULD BE USED FOR THE LENGTH OF SUPERELEVATION RUNOFF FOR ALL CURVES LISTED IN THE TABLE BELOW THE HEAVY LINE (e > 0.50).
2. A VERTICAL CURVE WITH A LENGTH EQUAL TO THE DESIGN SPEED SHOULD BE PLACED AT EXCESSIVE ANGULAR BREAKS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SUPERELEVATION TRANSITION CASE II (3% NORMAL SUBGRADE)	
DESIGNED A.W.K.	DATE 11-15-85
ISSUED 12-3-85	DATE 11-15-85
WORKING NUMBER SE-2D	SHEET NUMBER 2074

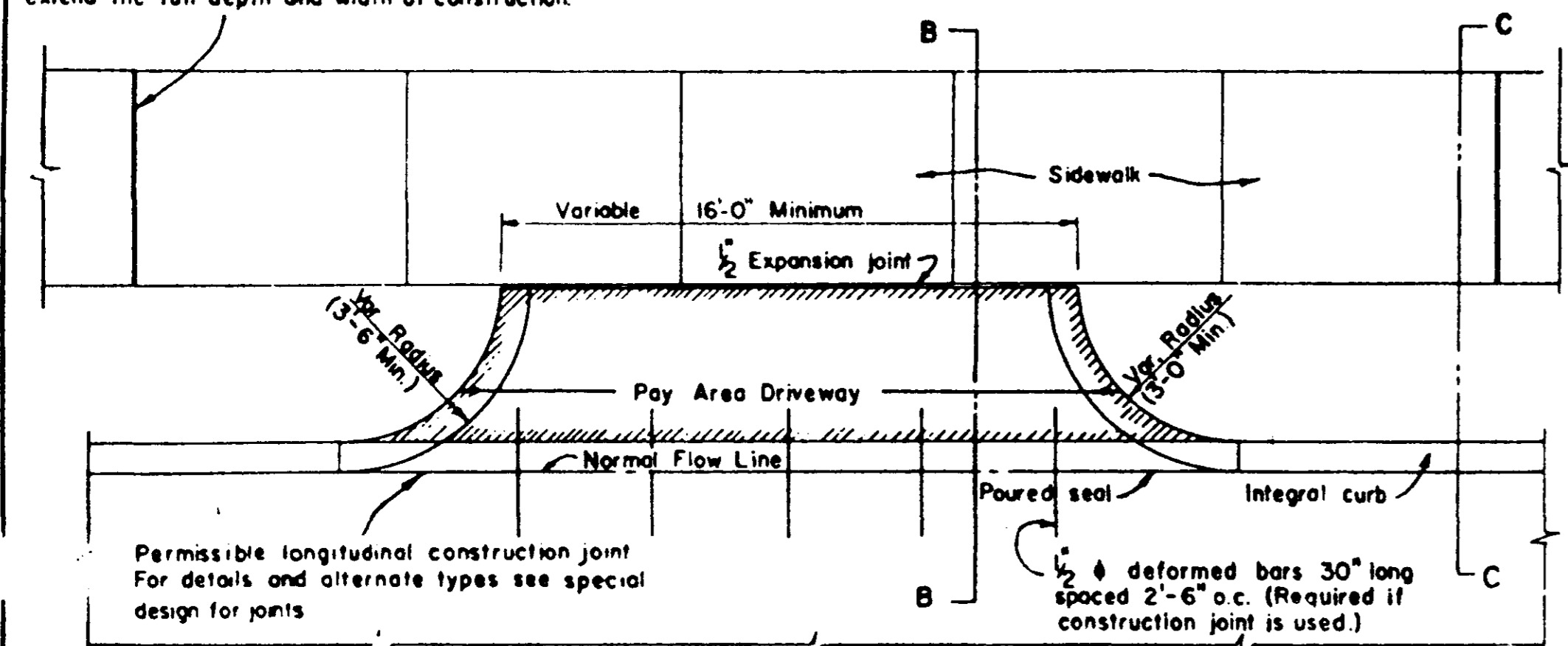


MISSISSIPPI DEPARTMENT OF TRANSPORTATION Δ			
DRIVEWAYS, CURB & GUTTER, & SIDEWALK			
DESIGNED	DETAILED	TRACED	WORKING NUMBER
CHECKED	REVISIONS	DATE 11-1-79	SD-1
			SHEET NUMBER
			213



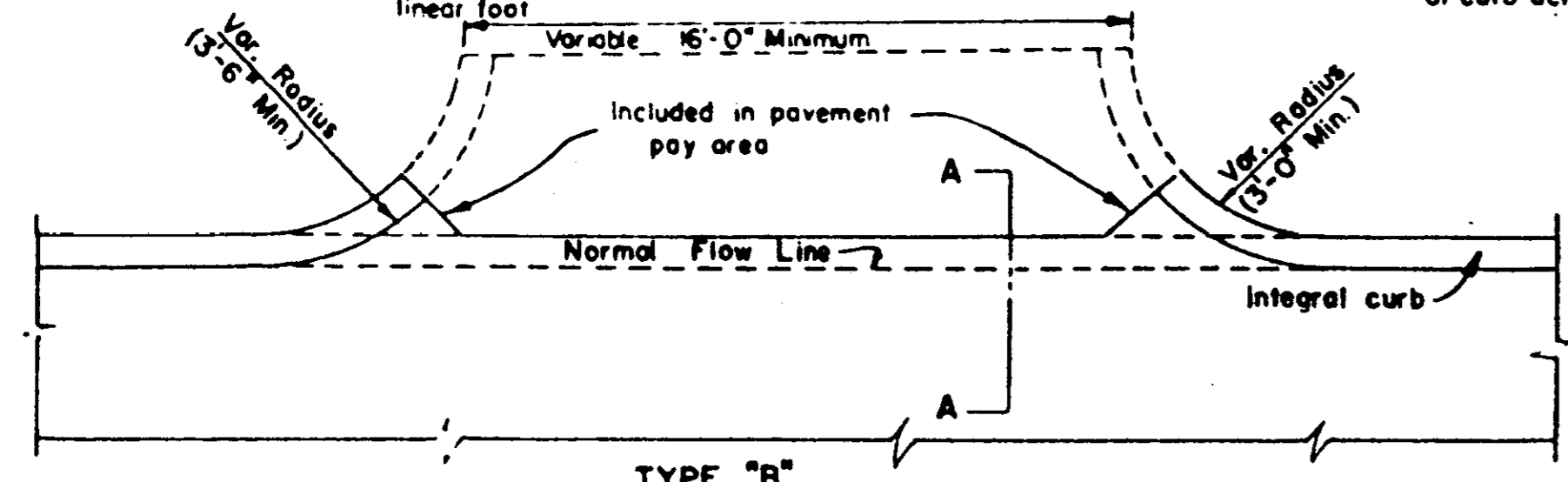
PLAN SHOWING ARRANGEMENT OF INTEGRAL CURB, DRIVEWAYS AND SIDEWALK

1/2 Expansion joint. The expansion joints shall be formed of premolded joint filler cut to full cross-section and shall extend the full depth and width of construction.



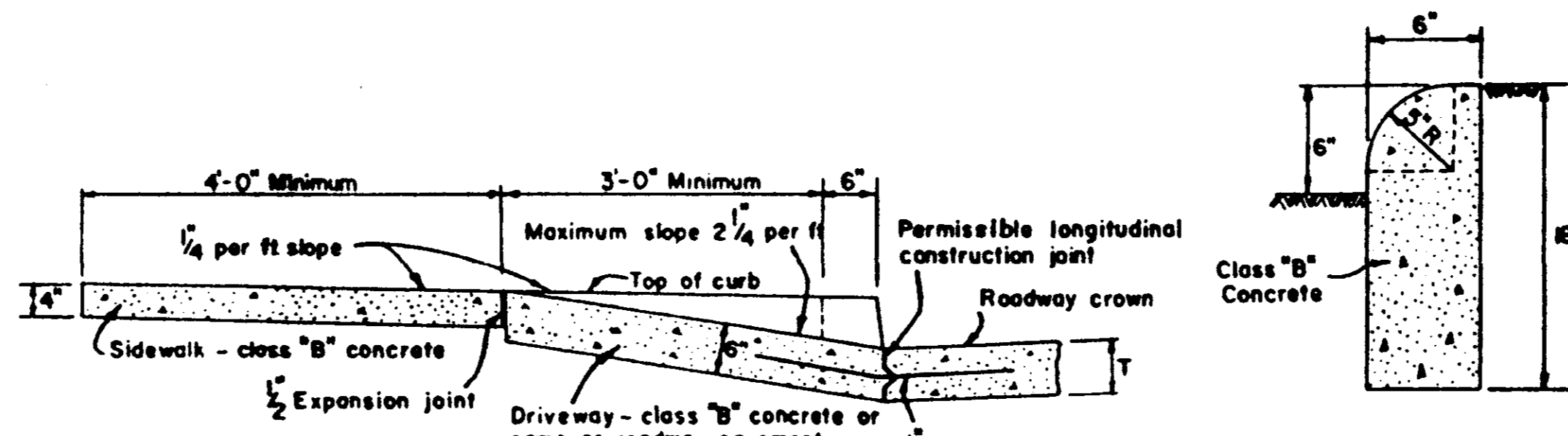
TYPE "A" PLAN OF CONCRETE DRIVEWAY

11.0' Length of curb returns
 Driveway Area
 5.761 Sq yds for driveway 16'-0" in width
 0.333 Sq yds for each added or subtracted foot of width
 Note: Above area is computed on the basis of 3'-0" radius. The full length of the curb returns shall be paid for as integral curb per linear foot.

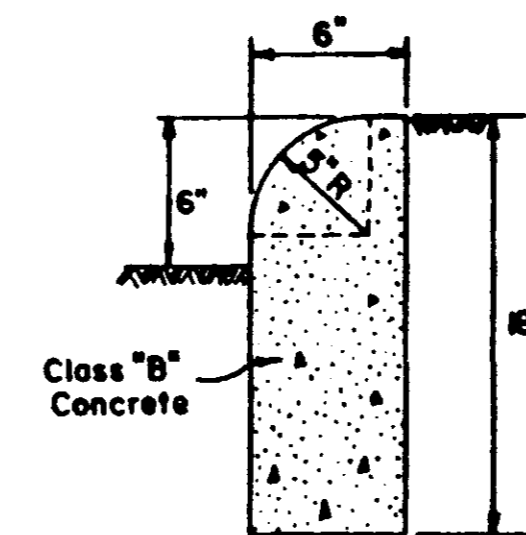


PLAN - CURB OMITTED FOR FUTURE DRIVEWAY CONSTRUCTION

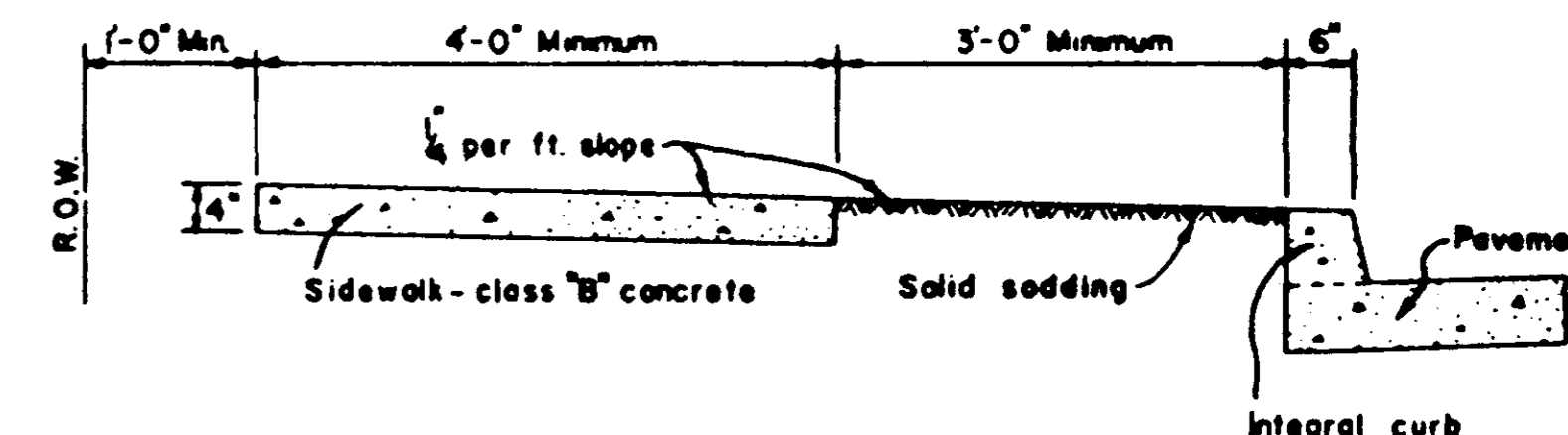
Note: This type construction shall be used only where specifically designated elsewhere on the plans or by the engineer.



SECTION B-B

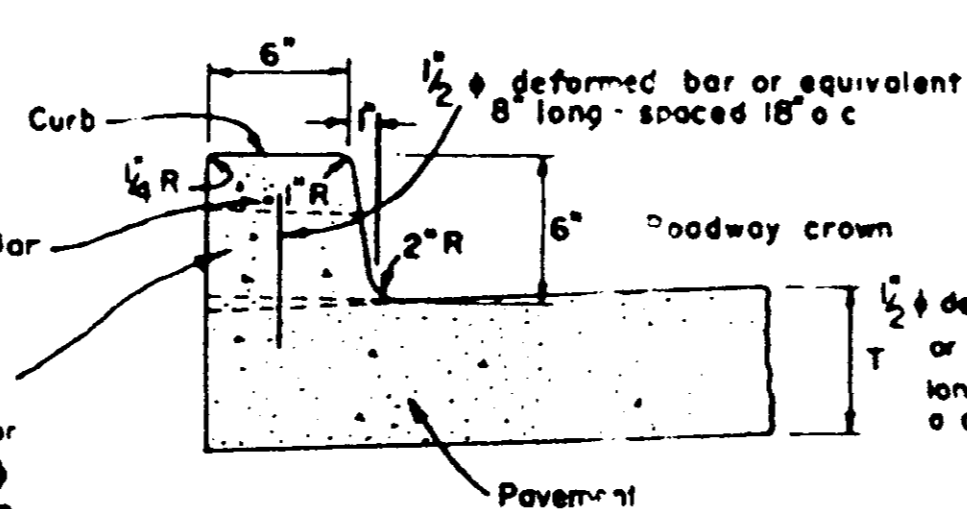


DETAIL OF HEADER CURB
 Contraction joints required at 20' o.c.
 Expansion joints required at 60' o.c.
 Unless otherwise directed by engineer.

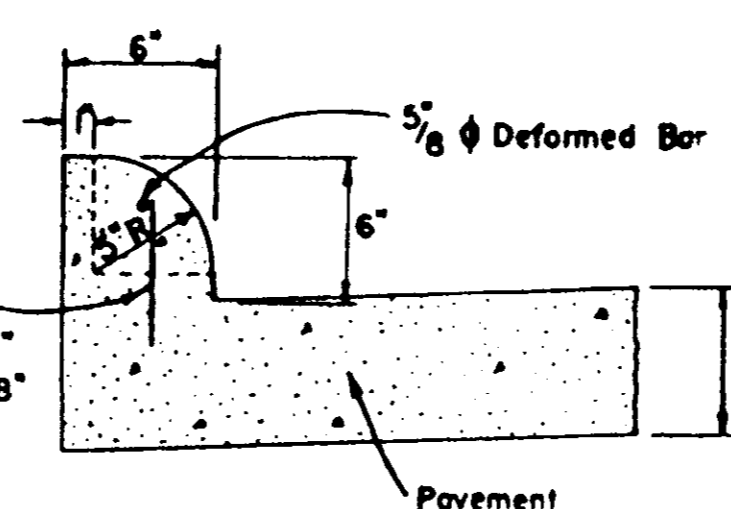


SECTION C-C

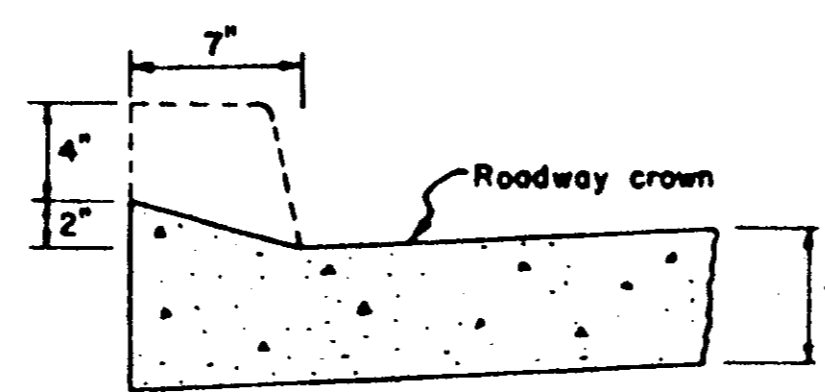
Weep hole placed in curb to accommodate 4" cast iron drain pipe where indicated elsewhere on plans or directed by the engineer. Two 5/8 inch bars 24" long shall be placed in top of curb across weep holes.



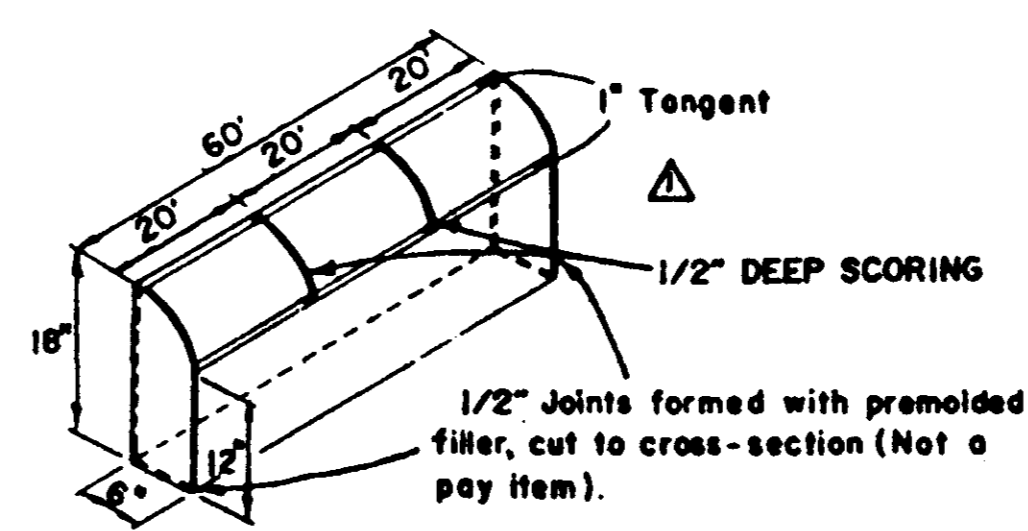
DETAIL OF INTEGRAL CURB TYPE "1"



DETAIL OF INTEGRAL CURB TYPE "2"



SECTION A-A



ISOMETRIC HEADER CURB DETAIL SHOWING JOINTS

General Notes:
 The standard specifications adopted by the Mississippi Department of Transportation unless otherwise specified herein shall apply to all items included on this standard.

Integral Curb. The integral curb shall be constructed of cement concrete conforming to the requirements set out in the standard specifications.

Driveways. The driveways shall be constructed of class "B" concrete or of the same concrete used in pavement. The driveway surface shall be finished with a wooden float so as to produce a sandy texture. The construction joint, if used, shall conform to the requirements of the special design for joints and of the standard specifications.

Sidewalks. The sidewalk shall be constructed of class "B" concrete conforming to the requirements of the standard specifications.

Driveway Reinforcement. Use 6"x6" No 10/10 wire mesh when required.

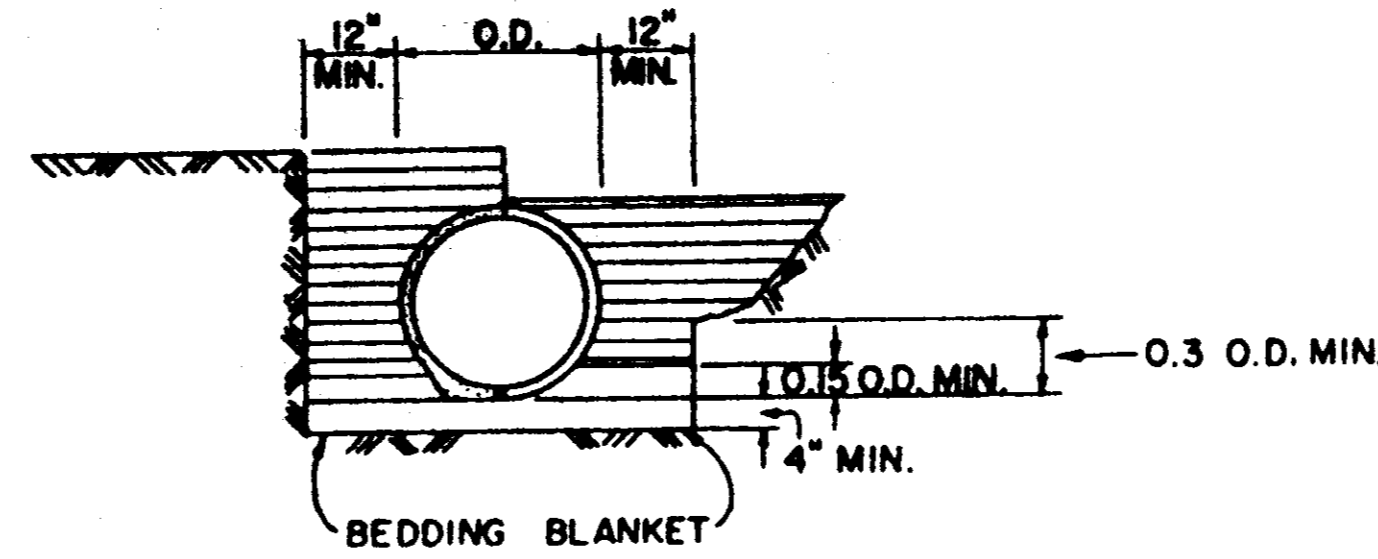
MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
DRIVEWAYS, INTEGRAL CURB, & SIDEWALK			
DESIGNED	DATE	Detailed	TRACED
CHECKED	ISSUED	DATE	11-1-79
WORKING NUMBER			SD-2
SHEET NUMBER			214

CORRUGATED STEEL AND ALUMINUM PIPE (ROUND)
H-20 LOADING

PIPE ¹ DIAMETERS (INCHES)	MINIMUM COVER TOP OF PIPE TO TOP OF SUBGRADE (INCHES)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (FEET)					
		METAL THICKNESS IN INCHES AND EQUIVALENT PIPE GAGE					
		0.064 STEEL 0.060 ALUM. 16 GAGE	0.079 STEEL 0.075 ALUM. 14 GAGE	0.109 STEEL 0.105 ALUM. 12 GAGE	0.136 STEEL 0.135 ALUM. 10 GAGE	0.168 STEEL 0.164 ALUM. 8 GAGE	
		2-2/3 INCH BY 1/2 INCH CORRUGATED STEEL RIVETED, WELDED, OR HELICAL		3" x 1" OR 5" x 1" Δ CORRUGATED STEEL RIVETED, WELDED, HELICAL, OR BOLTED		2-2/3 INCH BY 1/2 INCH CORRUGATED ALUMINUM RIVETED OR HELICAL	
12	12	84 / - / 45	91 / - / 45	- / - / 78	- / - / 81	- / - / 84	- / - / 84
15	12	67 / - / 30	73 / - / 30	- / - / 52	- / - / 54	- / - / 56	- / - / 56
18	12	42 / - / 22	45 / - / 22	59 / - / 19	- / - / 41	- / - / 42	- / - / 42
24	12	34 / - / 18	35 / - / 18	47 / - / 31	- / - / 32	- / - / 34	- / - / 34
30	12	28 / 48 / 15	30 / 60 / 15	39 / 78 / 26	41 / 89 / 27	- / 101 / 28	- / 101 / 28
36	12	31 / 41 / -	43 / 51 / 26	46 / 64 / 43	48 / 71 / 43	50 / 79 / 44	- / - / -
42	12	27 / 36 / -	37 / 45 / -	45 / 57 / 40	46 / 61 / 41	47 / 66 / 43	- / - / -
48	12	- / 32 / -	33 / 40 / -	43 / 52 / 35	44 / 55 / 37	45 / 59 / 38	- / - / -
54	12	- / 29 / -	- / 36 / -	43 / 49 / -	43 / 51 / 33	44 / 54 / 34	- / - / -
60	12	- / 26 / -	- / 33 / -	42 / 47 / -	43 / 49 / 30	43 / 51 / 31	- / - / -
66	12	- / 24 / -	- / 30 / -	41 / 44 / -	41 / 47 / 29	43 / 49 / 29	- / - / -
72	12	- / 22 / -	- / 28 / -	41 / 44 / -	41 / 44 / -	41 / 44 / -	- / - / -
78	12	- / 21 / -	- / 26 / -	40 / 43 / -	40 / 43 / -	41 / 44 / -	- / - / -
84	12	- / 19 / -	- / 24 / -	39 / 42 / -	39 / 42 / -	40 / 43 / -	- / - / -
90	12	- / 18 / -	- / 22 / -	38 / 41 / -	38 / 41 / -	39 / 42 / -	- / - / -
96	12	- / 17 / -	- / 21 / -	37 / 40 / -	37 / 40 / -	38 / 41 / -	- / - / -
102	24	- / - / -	- / - / -	36 / 39 / -	36 / 39 / -	37 / 40 / -	- / - / -
108	24	- / - / -	- / - / -	35 / 38 / -	35 / 38 / -	36 / 39 / -	- / - / -
114	24	- / - / -	- / - / -	34 / 37 / -	34 / 37 / -	35 / 38 / -	- / - / -
120	24	- / - / -	- / - / -	33 / 36 / -	33 / 36 / -	34 / 37 / -	- / - / -

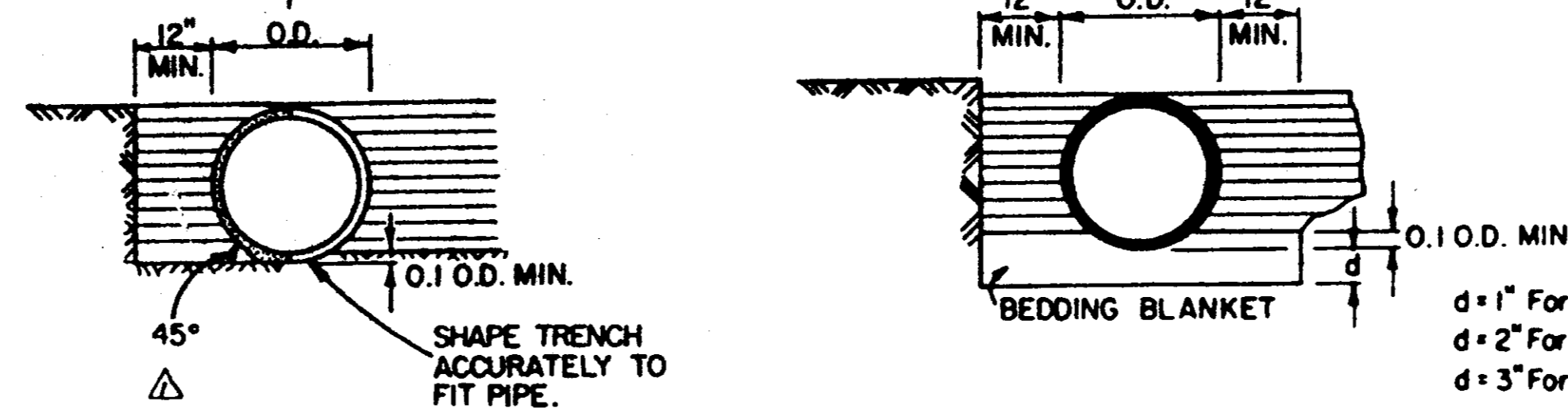
1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ONE-HALF INCH, WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. AASHTO M36 & M196.

TRENCH SECTION | EMBANKMENT SECTION



CLASS B

TRENCH SECTION | EMBANKMENT SECTION



CLASS C

CLASS C MODIFIED

d=1" For 1/2" Deep Corrugation
d=2" For 1" Deep Corrugation
d=3" For 2" Or 2 1/2" Deep Corrugation

MAXIMUM HEIGHT OF FILL OVER REINFORCED CONCRETE PIPE

CLASS OF PIPE	TYPE OF BACKFILL	MAXIMUM COVER (FEET)	
		CLASS "C" BEDDING	CLASS "B" BEDDING
III	NORMAL	16	-
IV	NORMAL	23	28
V	NORMAL	30	36
IV	IMPERFECT	-	90
V	IMPERFECT	-	115

CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

MAXIMUM HEIGHT OF FILL OVER VITRIFIED CLAY PIPE (EXTRA STRENGTH ONLY)

PIPE SIZE (In.)	MAXIMUM COVER (FEET)	
	CLASS "C" BEDDING	CLASS "B" BEDDING
15	11	13
18	11	13
24	13	14
30	13	14

MAXIMUM HEIGHT OF FILL OVER CLASS 2 NONREINFORCED CONCRETE PIPE, PERFORATED AND/OR PLAIN, FOR UNDERDRAINS

PIPE SIZE (In.)	MAXIMUM COVER (Feet) - BEDDING CLASS "C" / CLASS "B"			
	TRENCH		PROJECTING	
	B _g (Fe)	SAND & GRAVEL	DAMP CLAY	POSITIVE p=0.7; r _{sd} =0.7
4	2.00	*	*	34 / 42
6	2.00	*	*	25 / 30
8	2.25	*	16 / *	19 / 24
10	2.50	*	12 / 20	16 / 19
12	2.75	*	12 / 18	14 / 17

*Indicates no limit of fill height (w = 130 lbs./ft.³). Trench width (B_g) no greater than 16 inches plus O.D. of pipe. Factor of safety is 1.25 on minimum ultimate strength. Minimum cover for highway loads is 18 inches. Perforated pipe shall be Type 1.

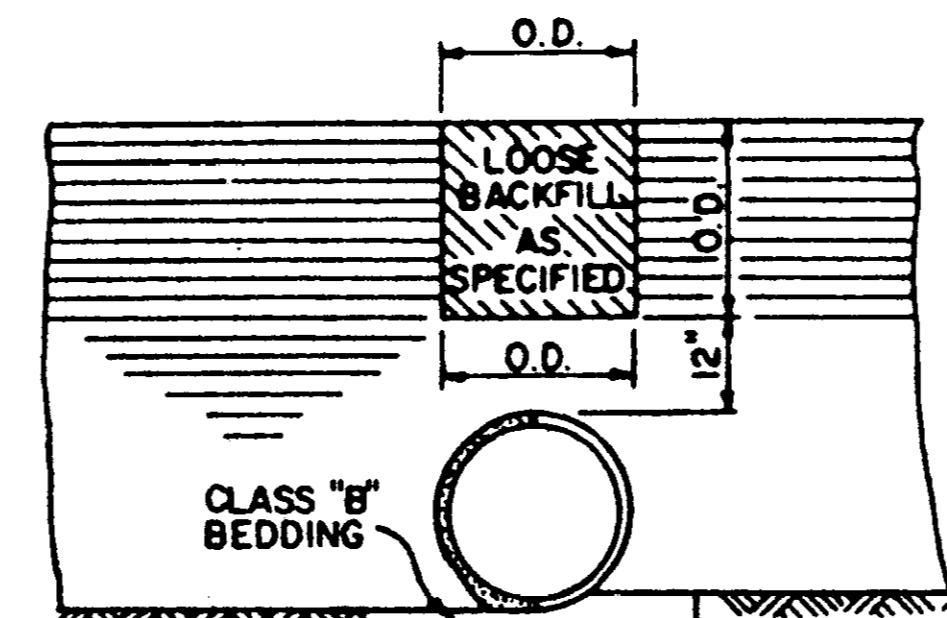
GENERAL NOTES

- MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.
- MINIMUM PIPE COVER--UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12 INCHES OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES.
- WHEN PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTOR'S EXPENSE, AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.

CORRUGATED METAL PIPE ARCHES H-20 LOADING

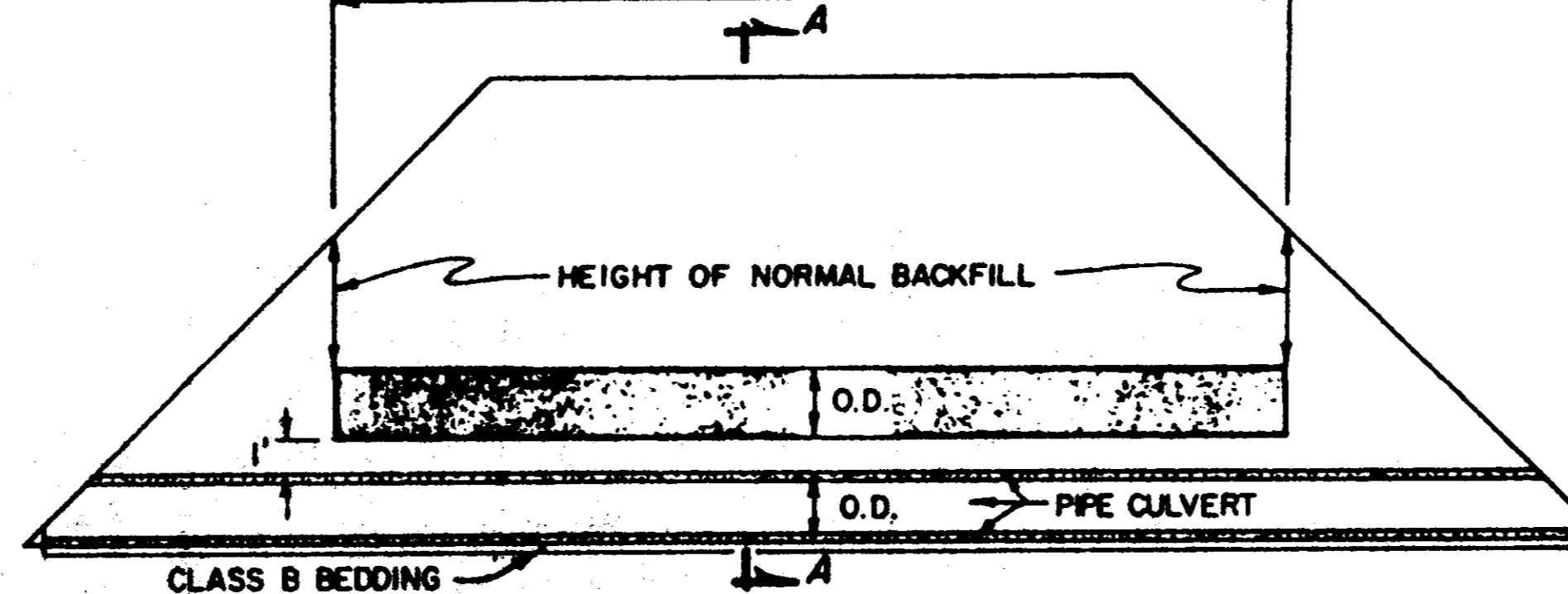
EQUIV. DIAMETER (INCHES)	PIPE DIMENSION (SPAN X RISE) (INCHES)	MINIMUM CORNER RADIUS (INCHES)	MINIMUM COVER (TOP OF PIPE TO TOP OF SUBGRADE FOR TWO (2) TONS PER SQ. FT.) (INCHES)	STEEL			ALUMINUM		
				MINIMUM THICKNESS REQUIRED	MAXIMUM FILL HEIGHTS ABOVE TOP OF PIPE (IN FT.) FOR THE FOLLOWING CORNER BEARING PRESSURE IN TONS PER SQ. FT.		MINIMUM THICKNESS REQUIRED	MAX. FILL HEIGHTS ABOVE TOP OF PIPE (IN FT.) FOR THE FOLLOWING CORNER BEARING PRESSURE IN TONS PER SQ. FT.	
					2 TONS	3 TONS ²		2 TONS	3 TONS ²
				2-2/3-INCH BY 1/2 INCH CORRUGATION RIVETED, WELDED, OR HELICAL			2-2/3-INCH BY 1/2 INCH CORRUGATION RIVETED OR HELICAL		
15	17 x 13	3	18	0.064	13	15 ⁺	0.060	15	-
18	21 x 15	3	18	0.064	12	15 ⁺	0.060	14	-
24	28 x 20	3	18	0.064	10	15 ⁺	0.060	10	15 ⁺
30	35 x 25	3	18	0.079	9	14	0.060	9	14
36	42 x 29	3.5	18	0.079	9	13	0.075	9	13
42	49 x 33	4	18	0.079	8	12	0.105	8	12
48	57 x 38	5	18	0.109	8	12	0.135	8	12
54	64 x 43	6	18	0.109	8	12	0.135	8	12
60	71 x 47	7	18	0.136	8	12	0.164	8	12
66	77 x 52	8	18	0.168	8	12	-	-	-
72	83 x 57	9	18	0.168	9	13	-	-	-
				5 INCH BY 1 INCH OR 3-INCH BY 1 INCH CORRUGATION RIVETED, WELDED, OR HELICAL					
36	40 x 31	5	18	0.079	12	15 ⁺	-	-	-
42	46 x 36	6	18	0.079	12	15 ⁺	-	-	-
48	53 x 41	7	18	0.079	12	15 ⁺	-	-	-
54	60 x 46	8	18	0.079	12	15 ⁺	-	-	-
60	66 x 51	9	18	0.079	12	15 ⁺	-	-	-
66	73 x 56	10	18	0.079	15 ⁺	-	-	-	-
72	80 x 61	11	18	0.079	15	-	-	-	-
78	87 x 66	12	18	0.079	14	15 ⁺	-	-	-
84	94 x 71	13	18	0.109	13	15 ⁺	-	-	-
90	101 x 76	14	24	0.109	12	15 ⁺	-	-	-
96	108 x 81	15	24	0.109	11	15 ⁺	-	-	-
102	115 x 86	16	24	0.109	10	14	-	-	-
108	122 x 91	17	24	0.136	9	14	-	-	-

- A tolerance of plus or minus one inch or two (2) per cent of equivalent diameter, whichever is greater, is permissible in span and rise. AASHTO M36 and M196.
- Bearing pressures exceeding two (2) tons per square foot required for given fill height shall have foundation material investigated to determine bearing capacity.



SECTION A-A IMPERFECT TRENCH INSTALLATION

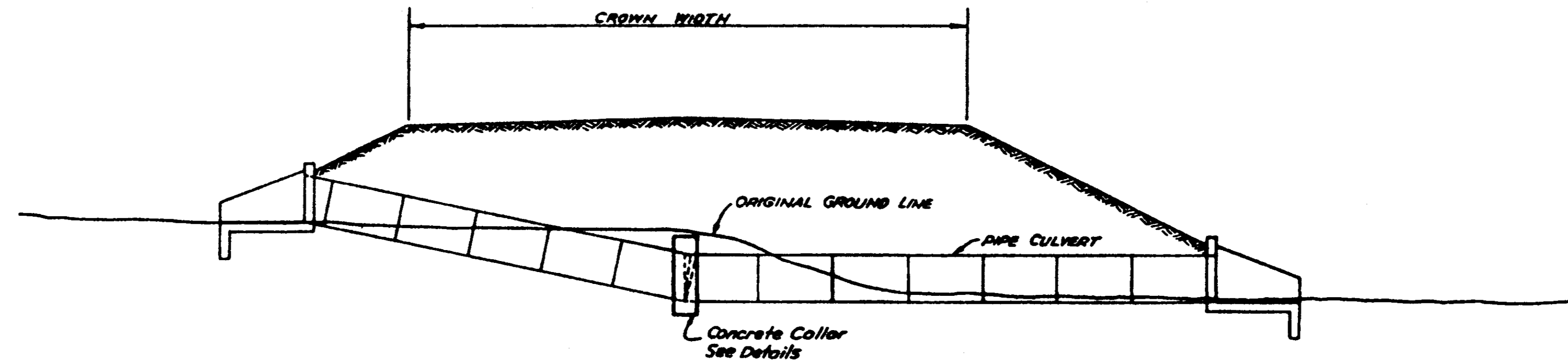
LIMITS OF IMPERFECT TRENCH INSTALLATION



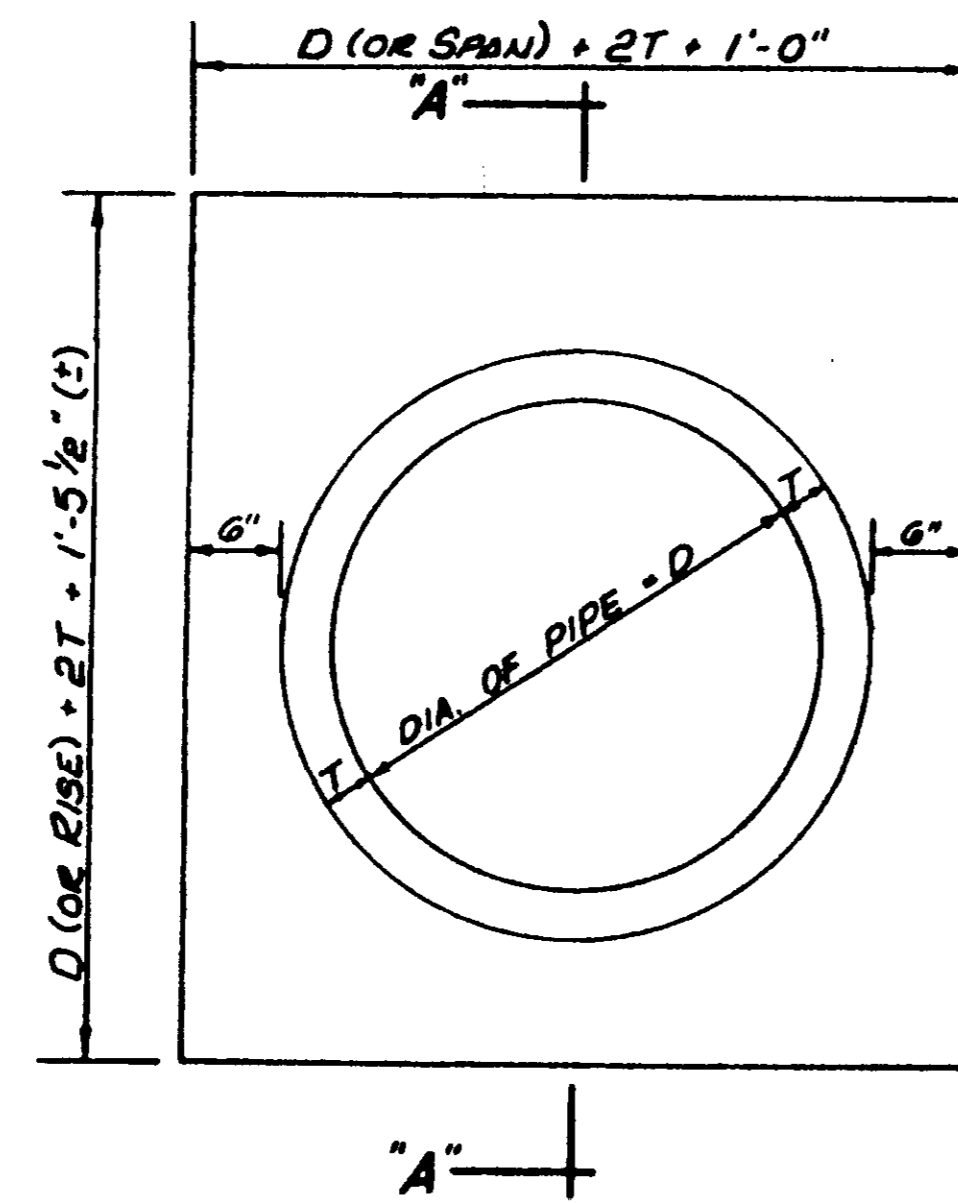
IMPERFECT TRENCH INSTALLATION

DESIGNED		DETAILED		TRACED		WORKING NUMBER
CHECKED		ISSUED		DATE		SHEET NUMBER
		D.B.J.		11-1-79		225

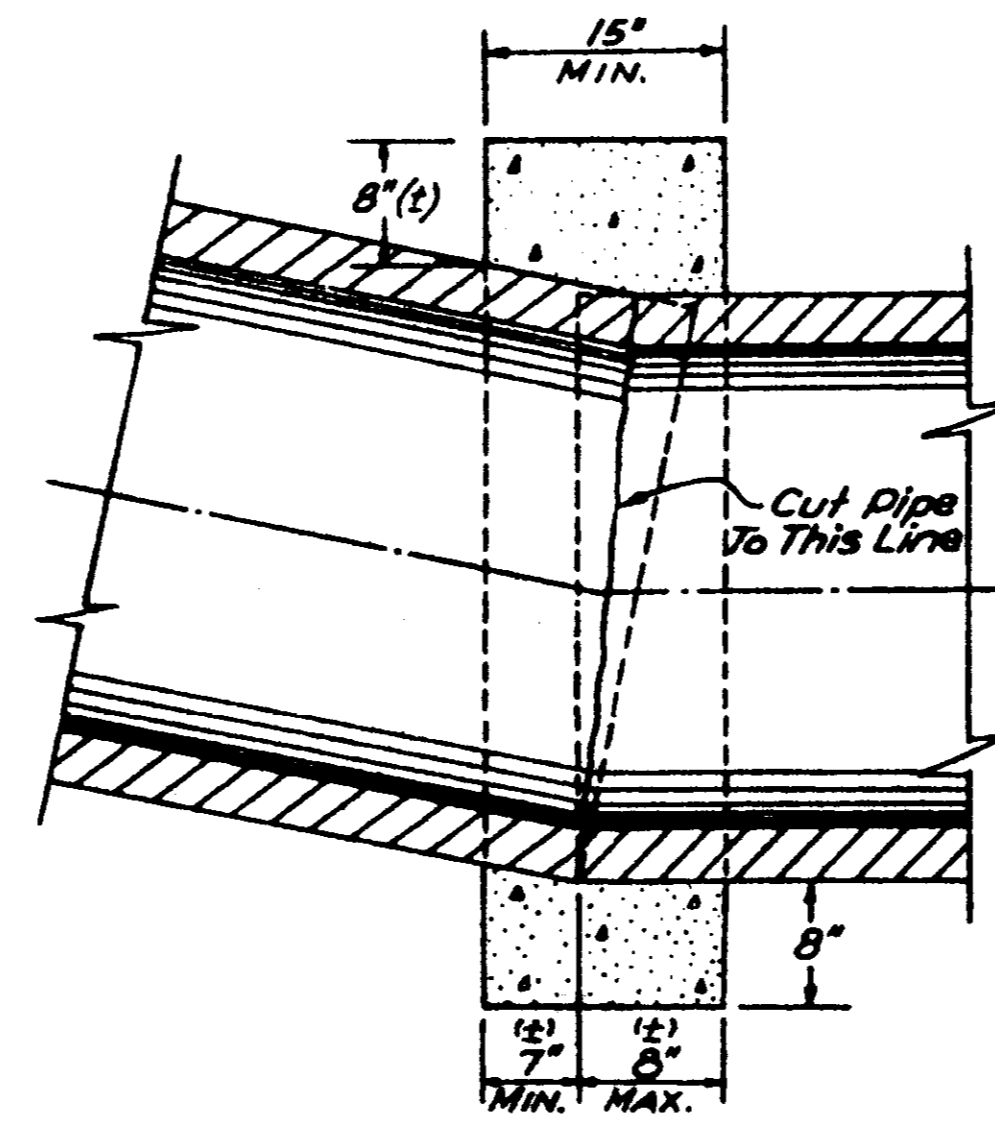
MISSISSIPPI STATE HIGHWAY DEPARTMENT
PIPE CULVERT INSTALLATION



TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR
(CIRCULAR PIPE SHOWN, ARCH PIPE SIMILAR)



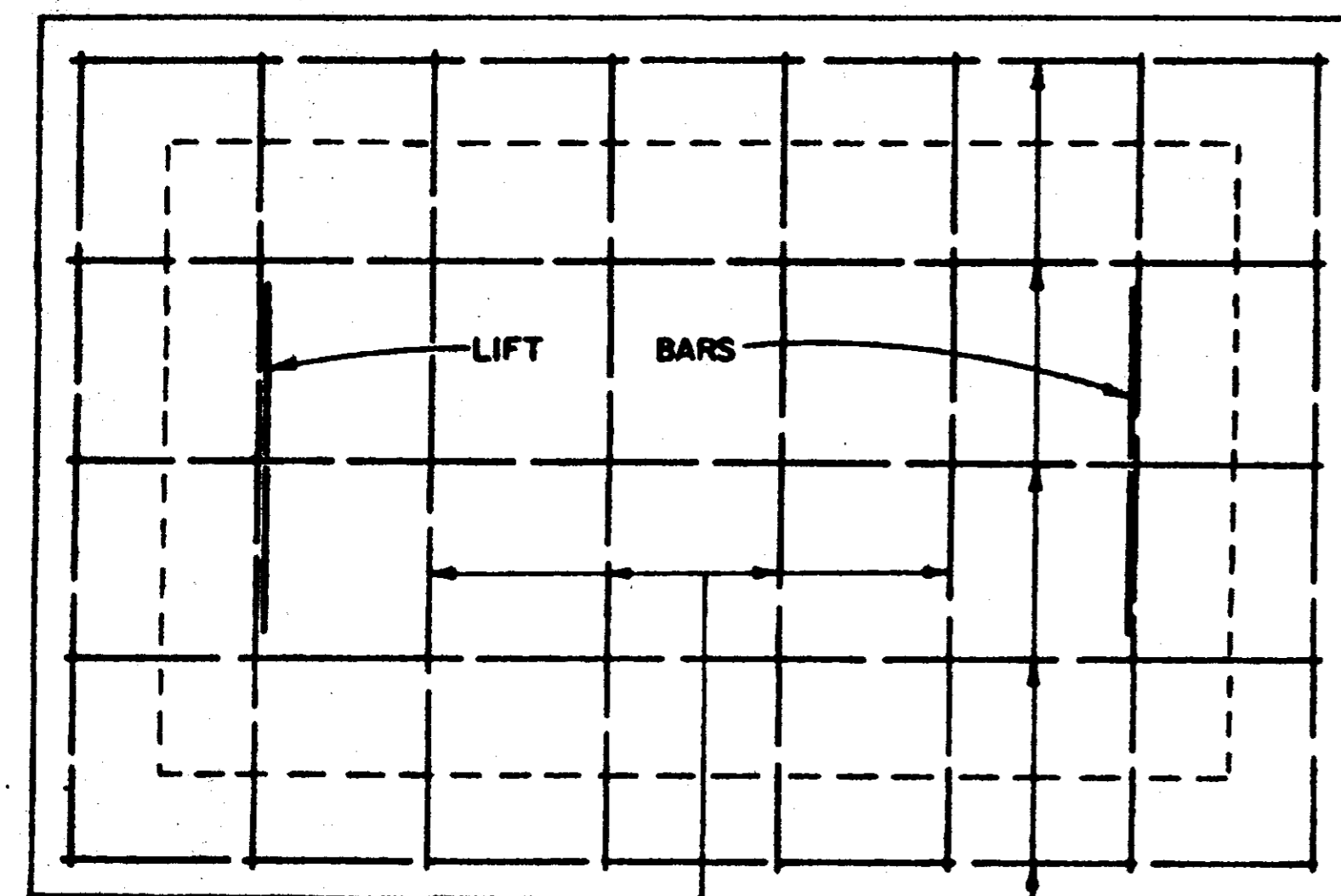
SECTION "A"-A

△△

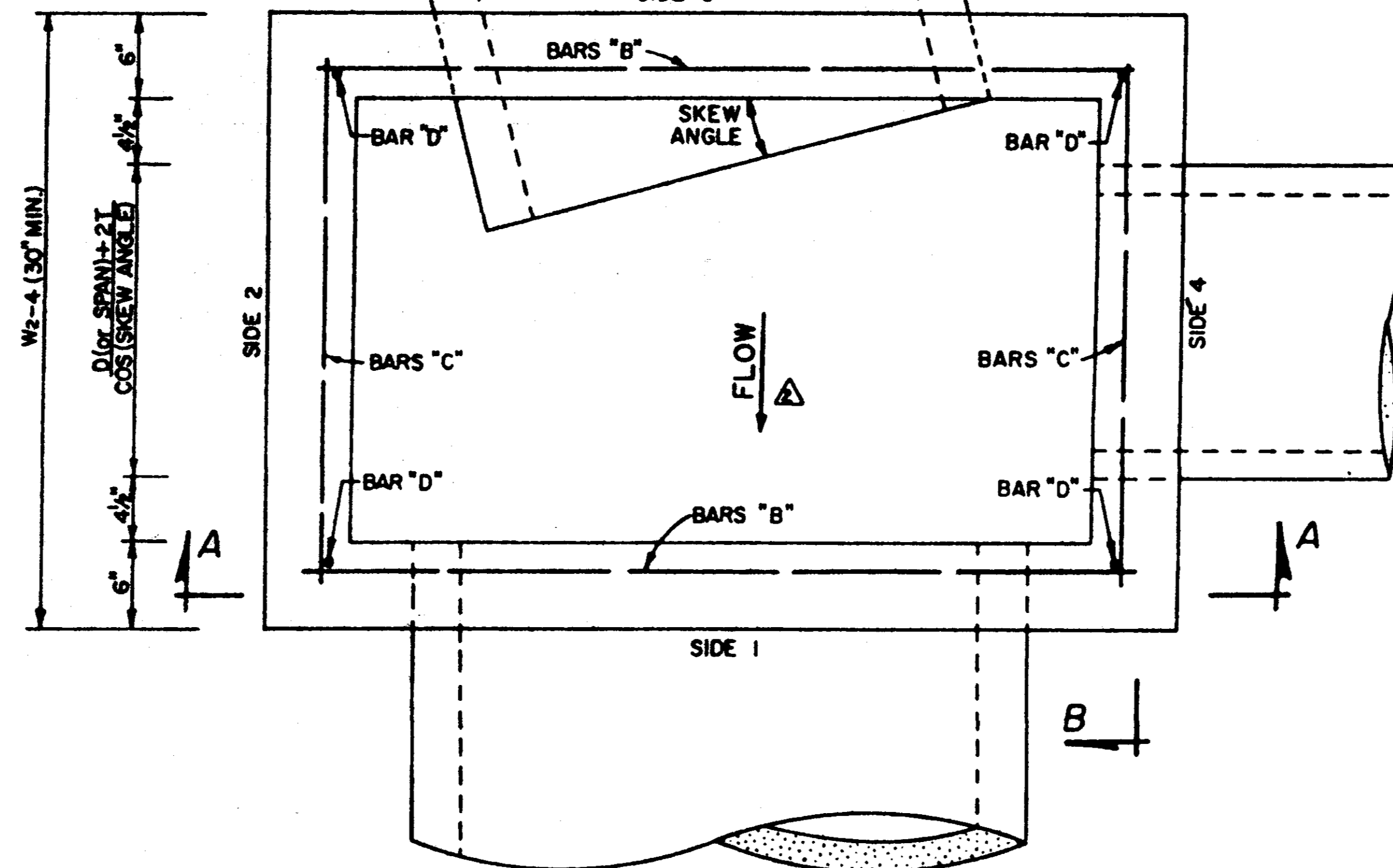
QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS			
CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE CUB. YDS.	SIZE OF PIPE	CLASS "B" CONCRETE CUB. YDS.
12"	0.240	10 x 11	0.280
15"	0.280	12 x 13	0.310
18"	0.320	14 x 15	0.340
24"	0.410	18 x 18	0.410
30"	0.510	24 x 23	0.490
36"	0.620	30 x 27	0.600
42"	0.730	36 x 31	0.690
48"	0.850	42 x 36	0.810
54"	0.980	48 x 40	0.910
60"	1.110	54 x 45	1.010
66"	1.248	60 x 51	1.166
72"	1.393		

GENERAL NOTES
QUANTITIES SHOWN SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.

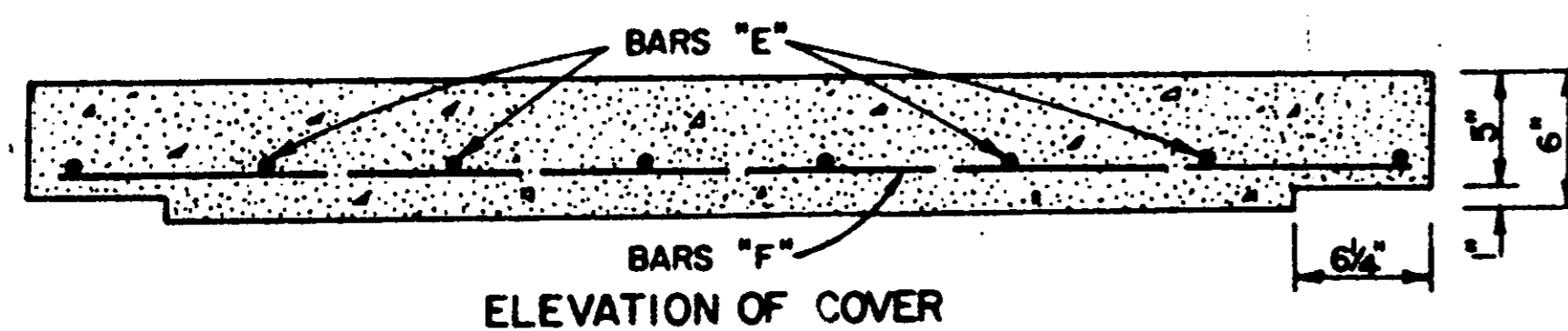
DATE		BY		REVISIONS		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
DATE		BY		REVISIONS		PIPE COLLAR, CONCRETE	
DESIGNED	DATE	DETAILED	DATE	TRACED	DATE	CHECKED	DATE
							DESIGNED
							PC-1
							226



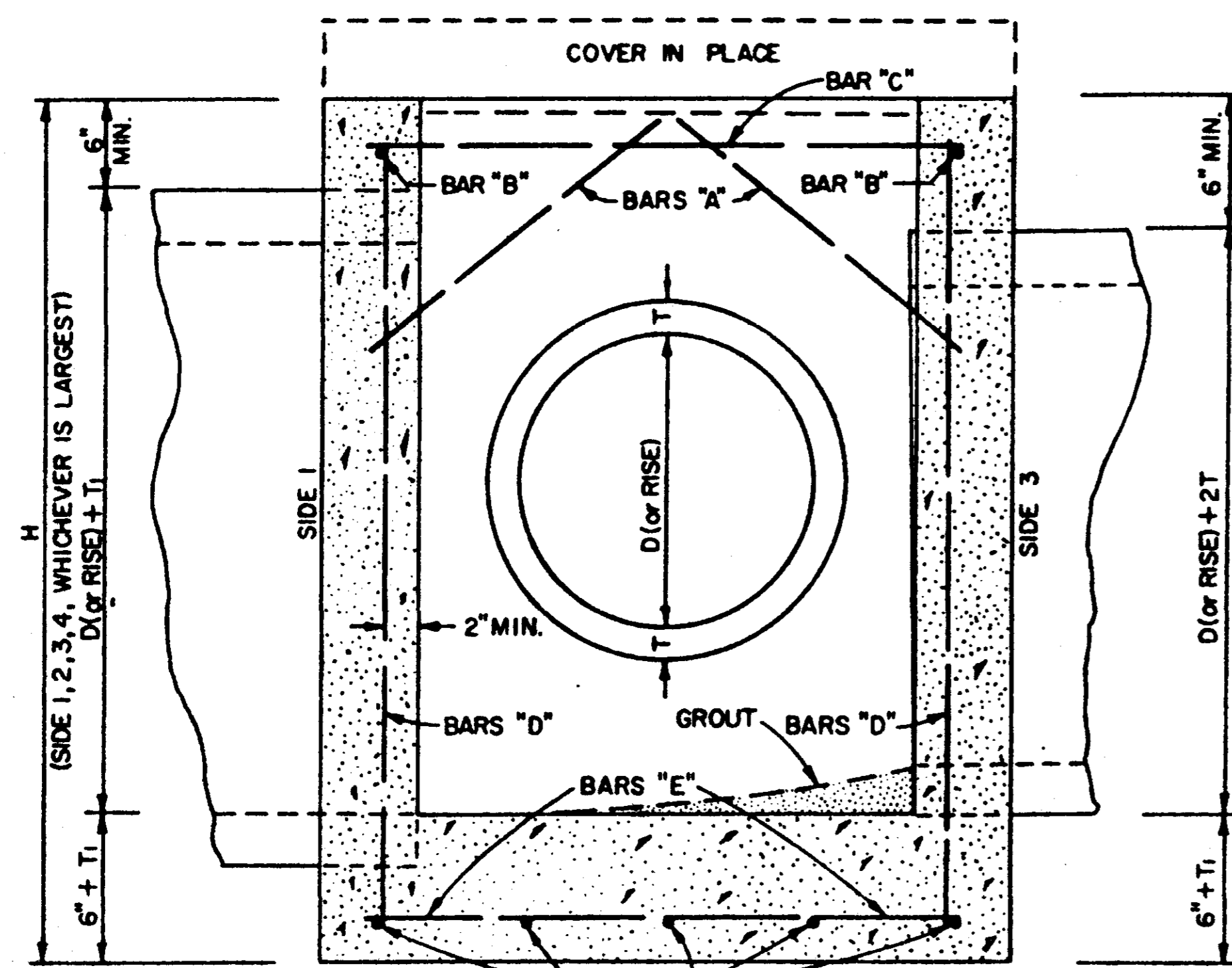
PLAN OF COVER



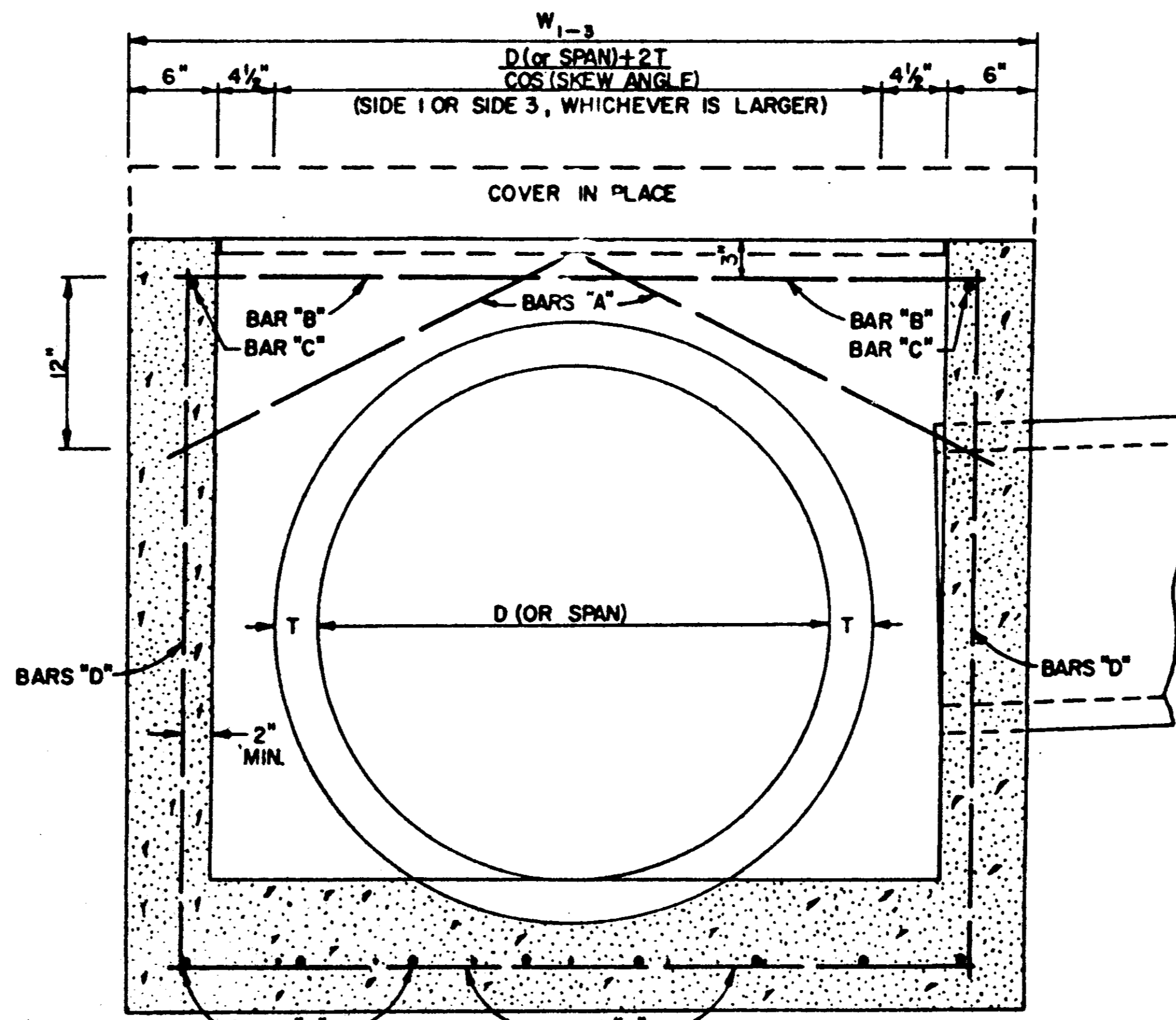
PLAN



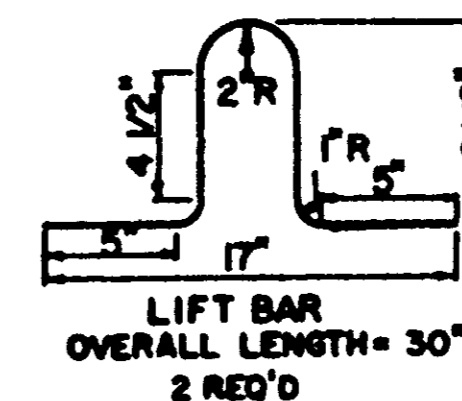
ELEVATION OF COVER



SECTION B-B



SECTION A-A



BAR LIST		
BAR	NUMBER REQUIRED	LENGTH (INCHES)
A	2 PER PIPE OPENING	$\sqrt{196 + \left(\frac{W_2}{2}\right)^2}$
B	2	$W_1 - 3 - 6$
C	2	$W_2 - 4 - 6$
D	4	H - 6
E	$2 \left(\frac{W_1 - 3}{9} \right) \text{ round up}$	$W_2 - 4 - 4$
F	$2 \left(\frac{W_2 - 4}{9} \right) \text{ round up}$	$W_1 - 3 - 4$

WHERE: D (or SPAN) = PIPE DIAMETER (or SPAN) (INCHES)
 $W_1 - 3$ = WIDTH OF SIDE 1 & SIDE 3 (INCHES)
 $W_2 - 4$ = WIDTH OF SIDE 2 & SIDE 4 (INCHES)
 W_2 = $W_1 - 3$ OR $W_2 - 4$ (SIDE OF ENTERING PIPE)
 ** ROUND TO NEAREST WHOLE NUMBER

$$CL. "B" CONC. (CY) = \frac{[5W_1 - 3W_2 - 4] + [W_1 - 3 - 12.5W_2 - 4 - 12.5] + [T_1 + 6W_1 - 3W_2 - 4] + 12 [(T_1 + 6)] [W_1 - 3 - 12] + W_2 - 4}{46.656}$$

(MINUS) DEDUCTIONS FOR PIPE OPENINGS (C.Y.)

REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.

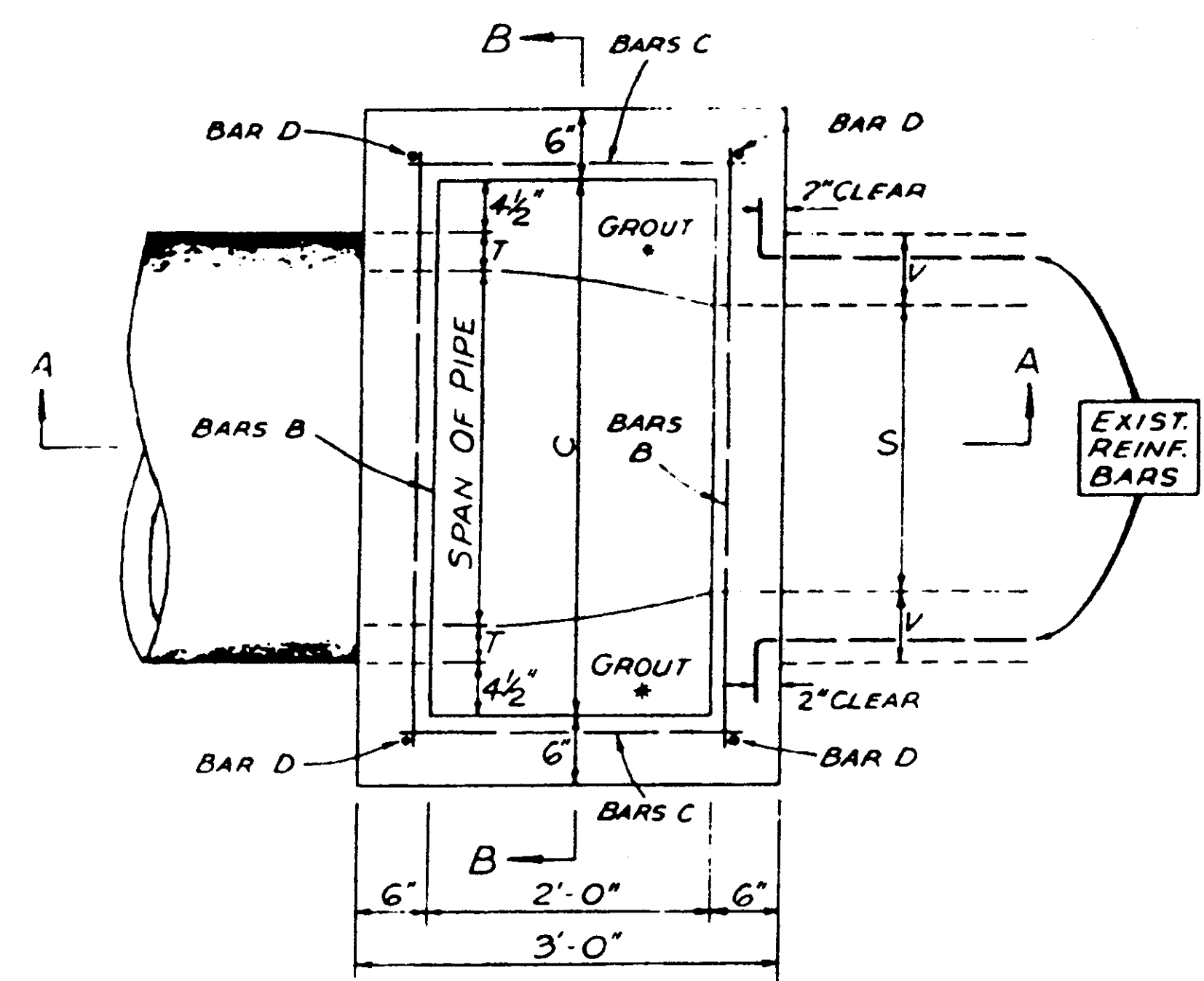
REINFORCING STEEL FOR 2 LIFT BARS = 4 LBS.

COMMON PIPE SIZE					
CIRCULAR PIPE			ARCH PIPE		
PIPE SIZE	"T" THICKNESS INCHES	PIPE OPENING DEDUCTION (CY)	PIPE SIZE	"T" THICKNESS INCHES	PIPE OPENING DEDUCTION (CY)
18"	2 1/2	0.053	22" x 15"	2 1/4	0.055
24"	3	0.091	29" x 18"	3	0.087
30"	3 1/2	0.138	36" x 23"	3 1/2	0.129
36"	4	0.196	44" x 27"	4	0.185
42"	4 1/2	0.263	51" x 31"	4 1/2	0.245
48"	5	0.340	58" x 36"	5	0.318
54"	5 1/2	0.427	65" x 40"	5 1/2	0.394
60"	6	0.524	73" x 45"	6	0.469
66"	6 1/2	0.630			
72"	7	0.747			

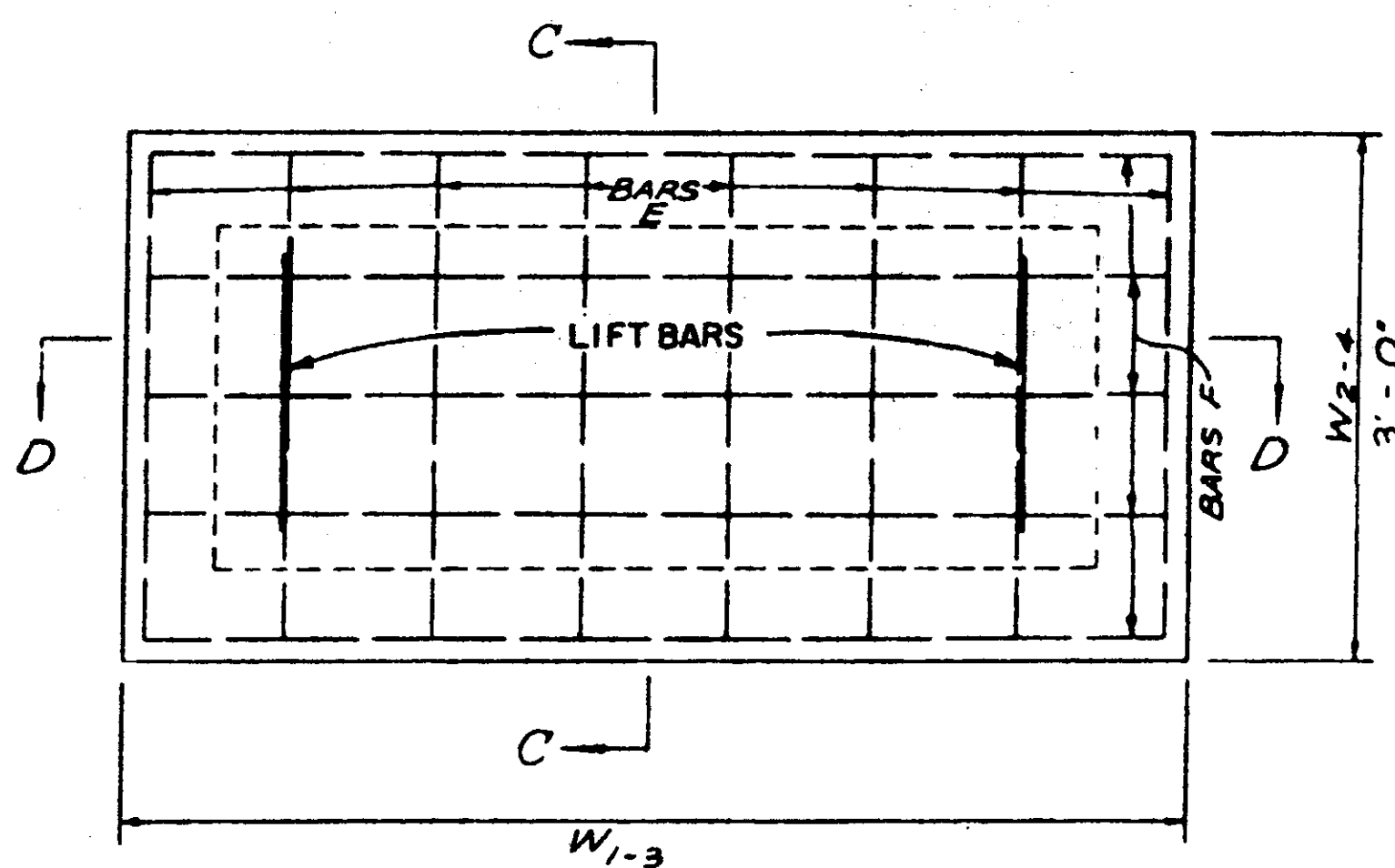
GENERAL NOTES

- QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
- CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS, SIZE #4.
- SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
- IF PIPES ARE SKEWED MORE THAN 15° OR IF SKEWED PIPES PRODUCE CONFLICTS WITH ANOTHER OPENING, THE PIPE SHALL BE BROKEN BACK TO THE WALL OF THE JUNCTION BOX.

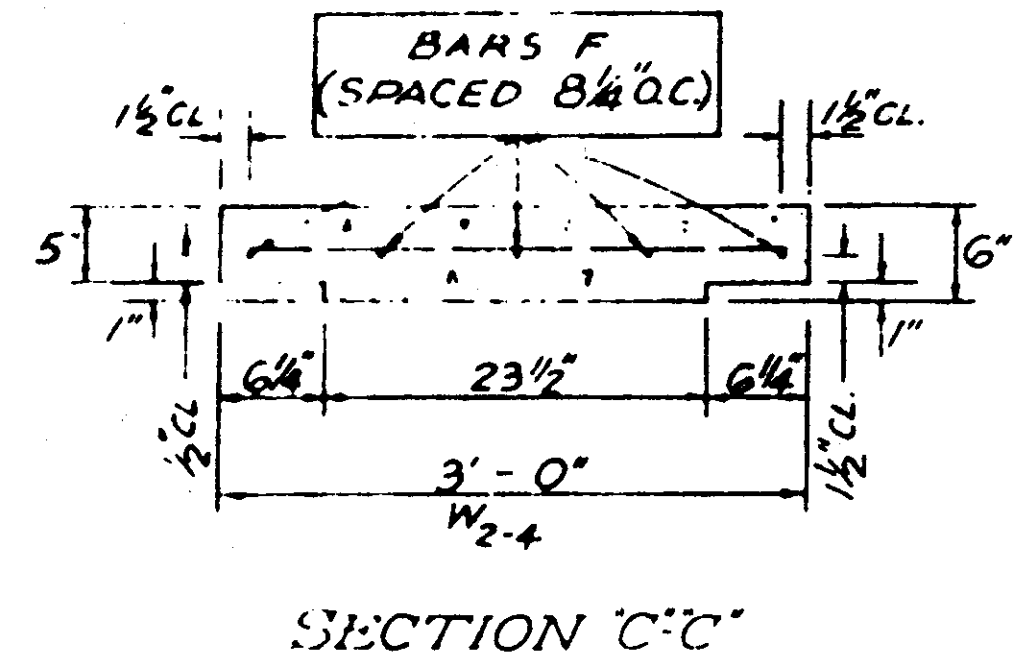
MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
JUNCTION BOX FOR PIPE CULVERTS			
DATE	DESIGNED	DETAILS	TRACED
DATE	CHECKED	ISSUED	DATE 11-1-79
WORKING NUMBER JB-1			SHEET NUMBER 227



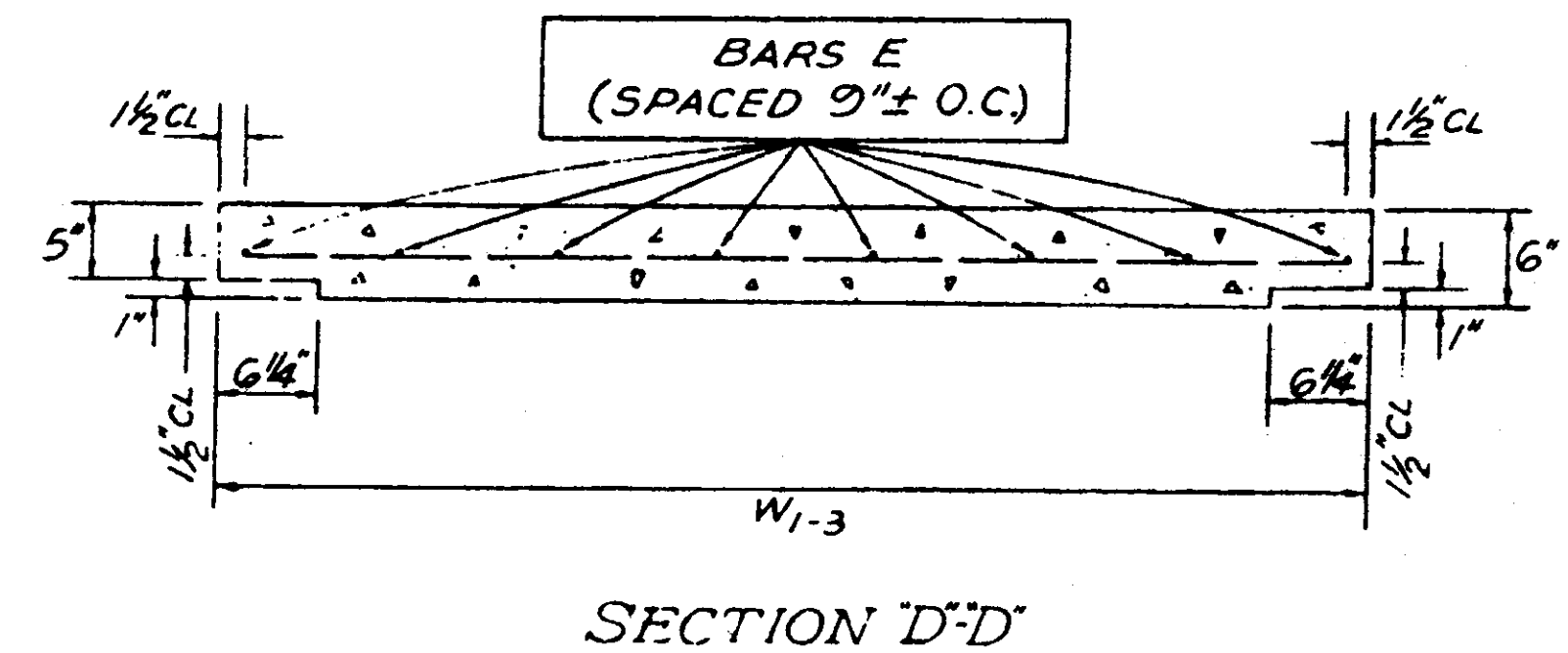
PLAN



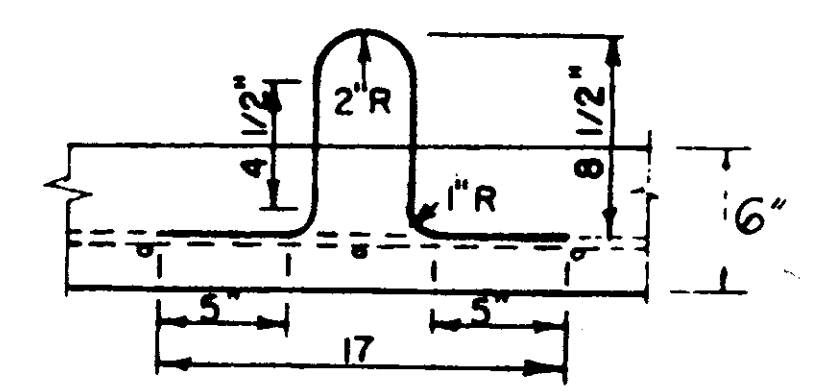
PLAN OF PRECAST COVER



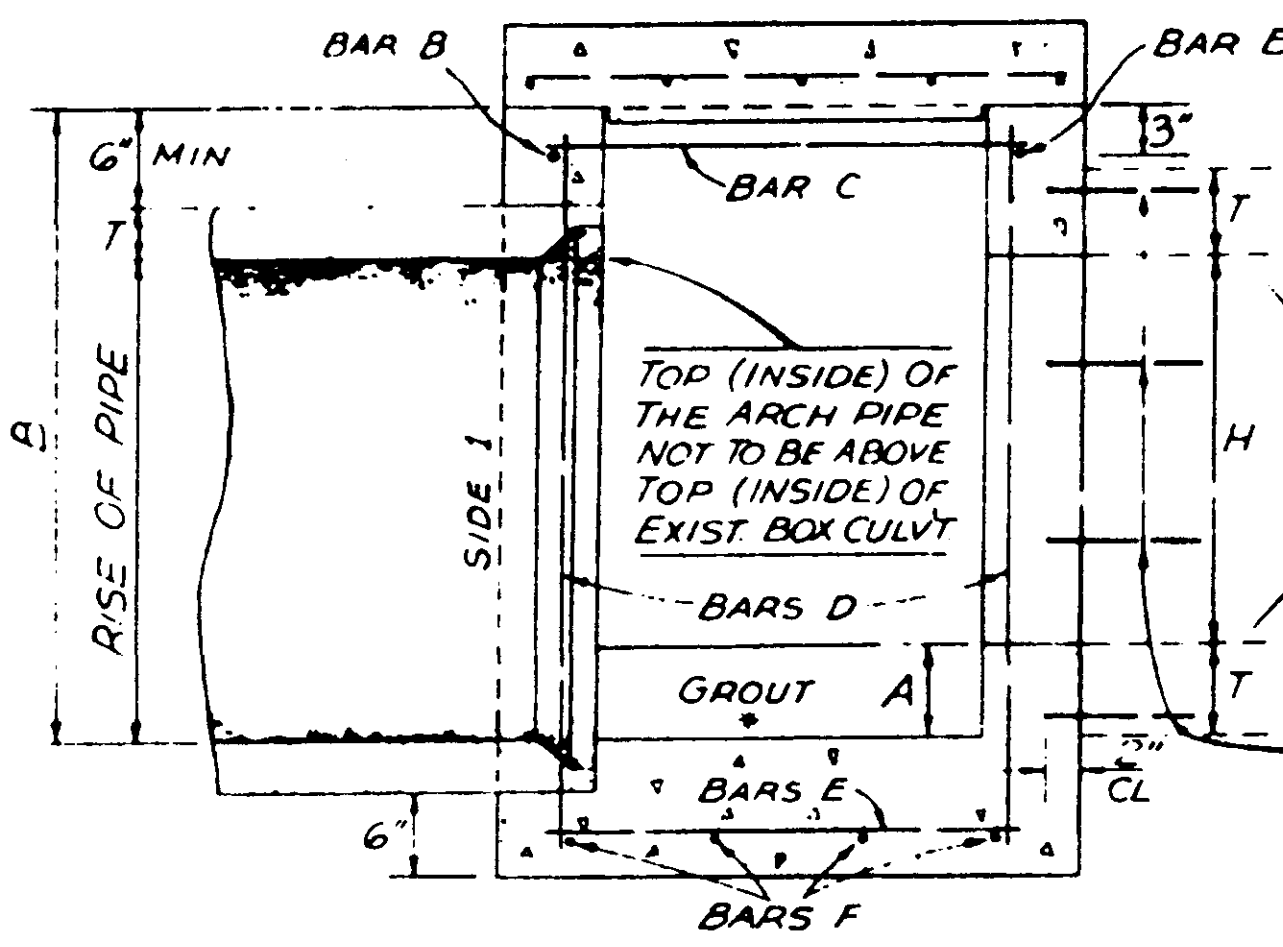
SECTION C-C



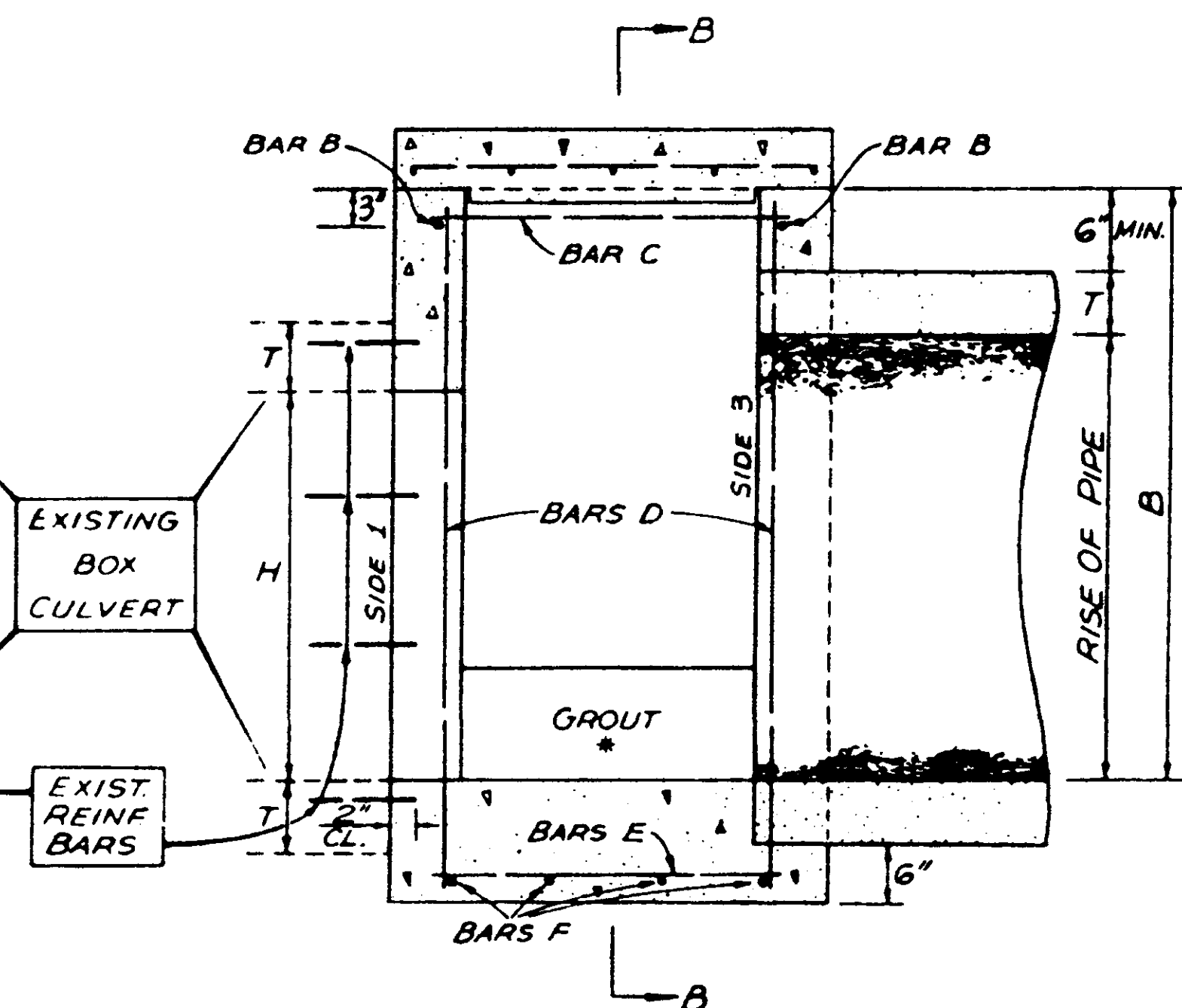
SECTION D-D



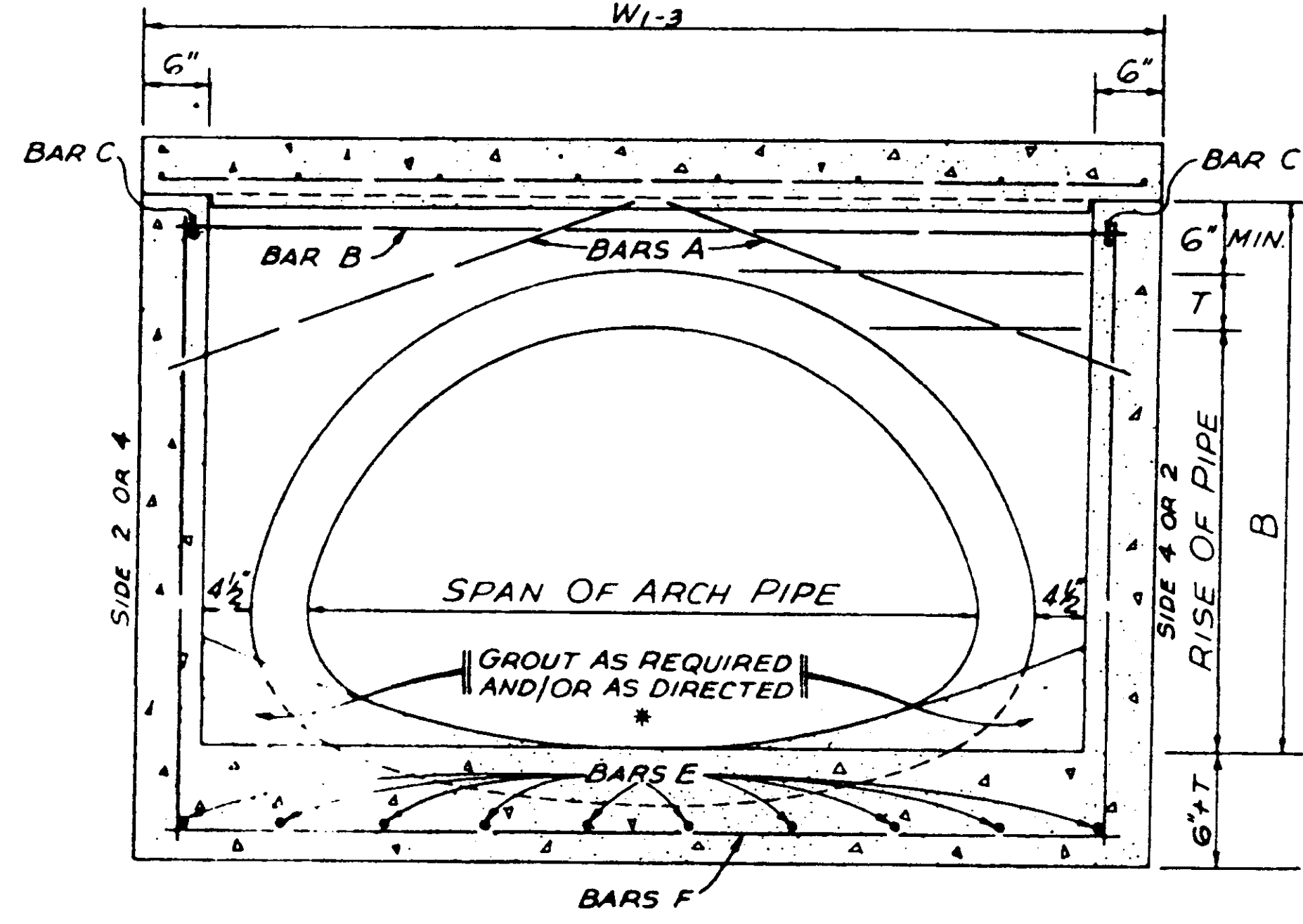
DETAIL OF LIFT BAR
OVERALL LENGTH = 30"
2 REQ'D.



SECTIONAL ELEVATION AT A-A
• DOWNSTREAM •

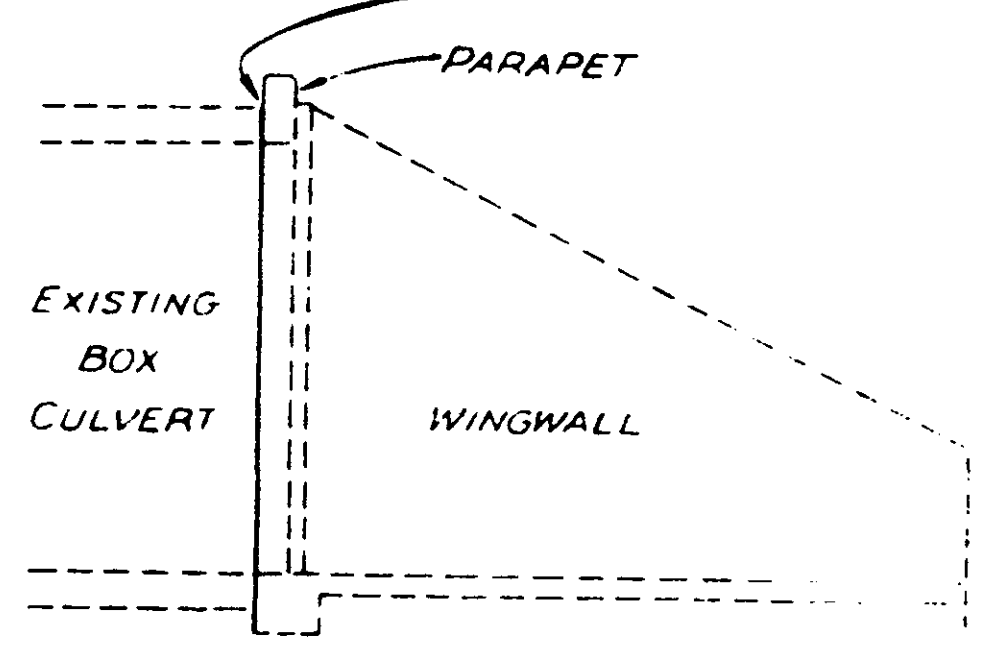


SECTIONAL ELEVATION AT A-A
• UPSTREAM •



SECTIONAL ELEVATION AT B-B

REMOVE HEADWALLS OF EXISTING BOX CULVERT TO A NEAT LINE IMMEDIATELY BEHIND PARAPET LEAVING EXPOSED REINFORCING BARS TO BE BENT AND LOCATED IN INLET AS INDICATED IN DETAILS ELSEWHERE ON THIS DRAWING OR AS DIRECTED.



HEADWALL REMOVAL DETAILS

GENERAL NOTES:

- THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI STATE HIGHWAY DEPARTMENT SHALL APPLY TO ITEMS UNLESS OTHERWISE SPECIFIED
- ESTIMATE 4 POUNDS OF REINFORCING STEEL FOR 1 LIFT BAR'S
- THE QUANTITIES SHOWN WILL BE USED AS THE BASIS FOR PAYMENT UNLESS THIS DRAWING IS MODIFIED.
- SIDE 1 IS ALWAYS OUT-FLOW.
- REINFORCING STEEL SHALL BE SIZE NO. 4 DEFORMED BARS.

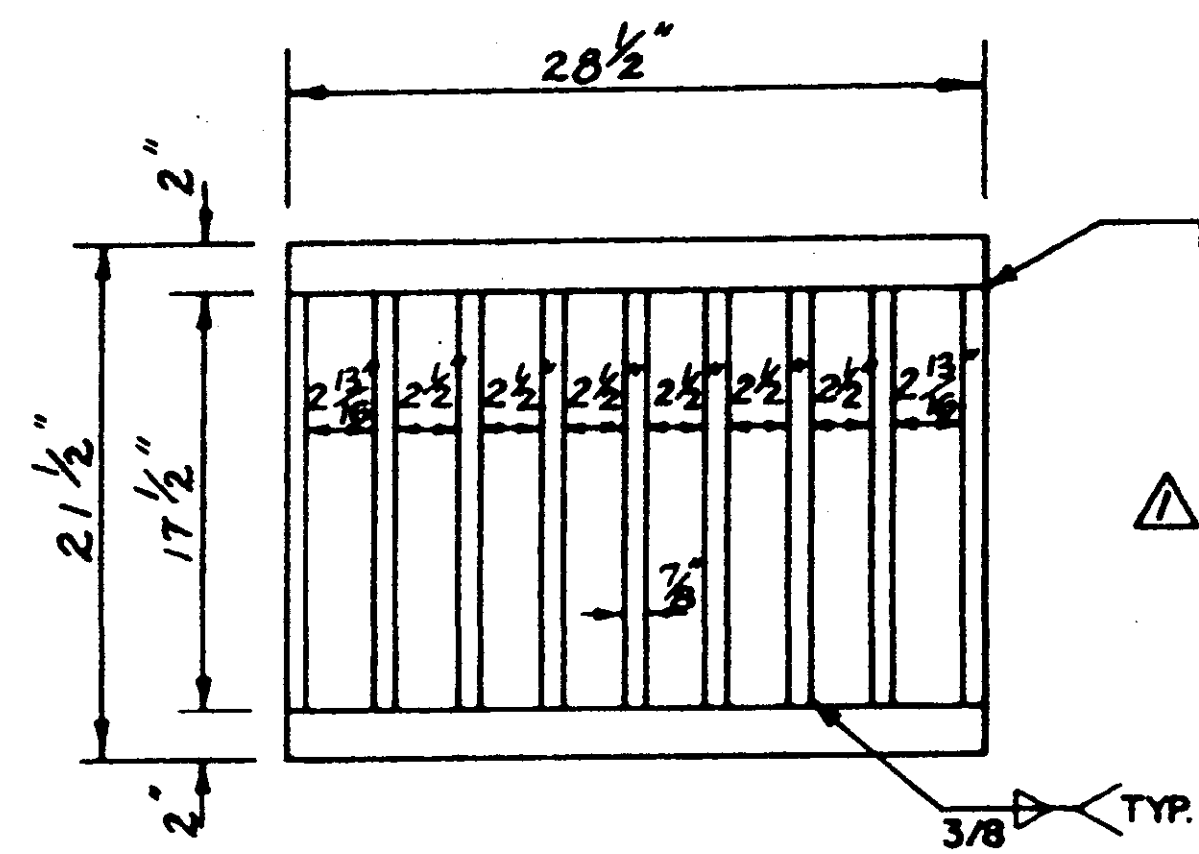
DIMENSIONS OF EXISTING BOX CULVERT				DIMENSIONS OF JUNCTION BOX REQUIRED			DIMENSIONS OF PRECAST COVER		DIMENSIONS OF PIPE REQUIRED				CLASS "B" STRUCTURAL CONCRETE CU. YDS.	REINFORCEMENT POUNDS	BAR LIST					
S	H	T	V	A	B	C	W1-3	W2-4	S	R	L	T			A	B	C	D	E	F
2'	2'	6"	6"	0"	32 1/2"	52"	5'-4"	3'	36 1/2"	22 1/2"	6'	3 1/2"	1.532	78	2 @ 3'-1"	2 @ 4'-10"	2 @ 2'-6"	4 @ 3'-3"	16 @ 2'-6"	9 @ 4'-10"
3'	2'	6 1/2"	6"	3"	37"	61"	6'-1"	3'	44"	27"	8'	4"	1.764	89	2 @ 3'-5"	2 @ 5'-7"	2 @ 2'-6"	4 @ 3'-8"	18 @ 2'-6"	9 @ 5'-7"
4'	2'	7"	6"	7"	41 1/2"	69"	6'-9"	3'	51 1/2"	31 1/2"	8'	4 1/2"	1.996	99	2 @ 3'-9"	2 @ 6'-3"	2 @ 2'-6"	4 @ 4'-1"	20 @ 2'-6"	9 @ 6'-3"
5'	2'	7 1/2"	6"	12"	47"	77"	7'-5"	3'	58 1/2"	36"	8'	5"	2.258	105	2 @ 4'-1"	2 @ 6'-11"	2 @ 2'-6"	4 @ 4'-7"	20 @ 2'-6"	9 @ 6'-11"
3'	3'	6 1/2"	6"	0"	45 1/2"	69"	6'-9"	3'	51 1/2"	31 1/2"	8'	4 1/2"	1.995	99	2 @ 3'-9"	2 @ 6'-3"	2 @ 2'-6"	4 @ 4'-5"	20 @ 2'-6"	9 @ 6'-3"
4'	3'	7"	6"	0"	47"	77"	7'-5"	3'	58 1/2"	36"	8'	5"	2.238	105	2 @ 4'-1"	2 @ 6'-11"	2 @ 2'-6"	4 @ 4'-7"	20 @ 2'-6"	9 @ 6'-11"
5'	3'	7 1/2"	6 1/2"	4"	51 1/2"	85"	8'-1"	3'	65"	40"	8'	5 1/2"	2.469	115	2 @ 4'-4"	2 @ 7'-7"	2 @ 2'-6"	4 @ 5'-0"	22 @ 2'-6"	9 @ 7'-7"
6'	3'	8"	6 1/2"	9"	57"	94"	8'-10"	3'	73 1/2"	45"	8'	6"	2.767	126	2 @ 4'-9"	2 @ 8'-4"	2 @ 2'-6"	4 @ 5'-6"	24 @ 2'-6"	9 @ 8'-4"

MISSISSIPPI STATE HIGHWAY DEPARTMENT

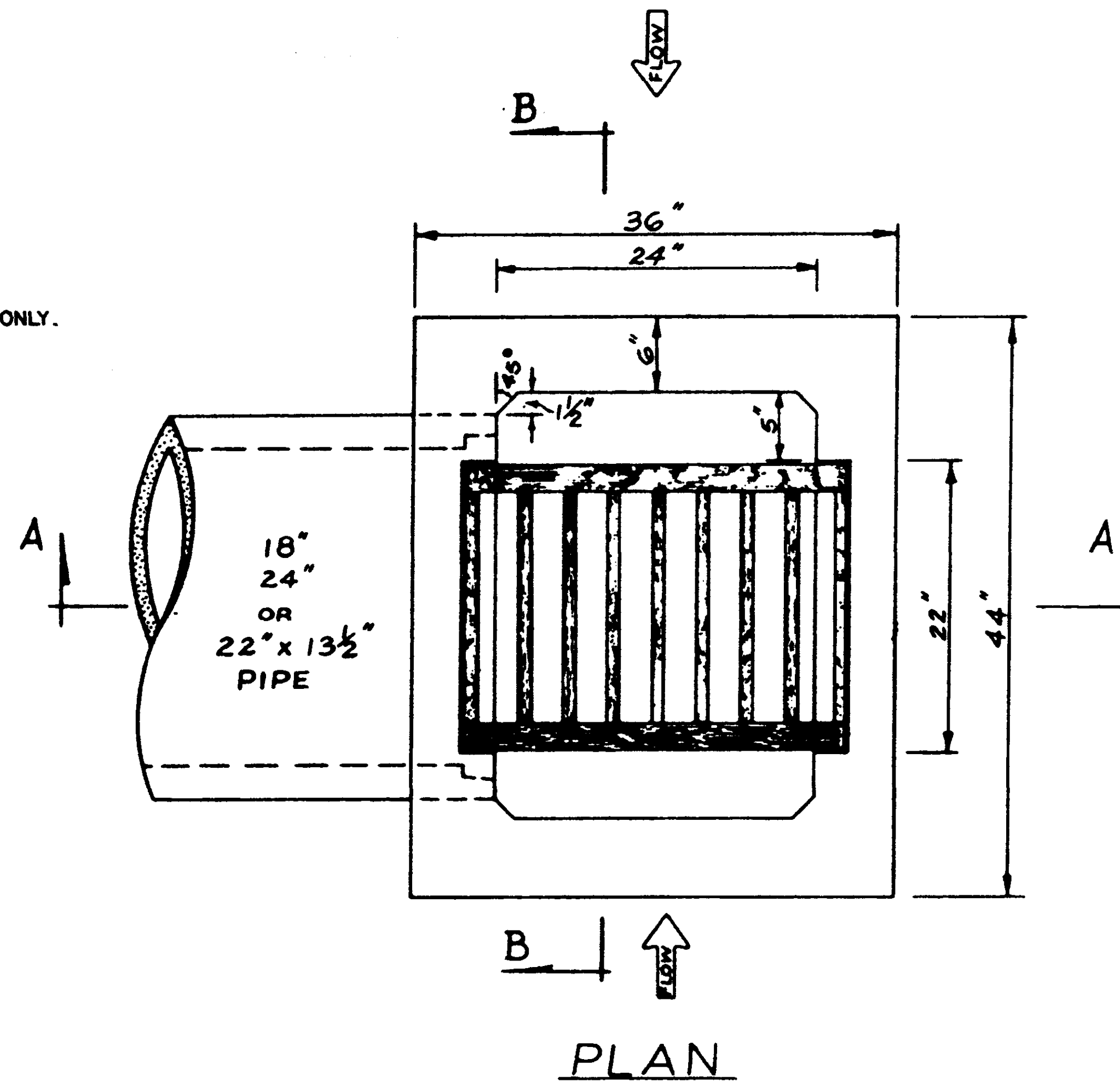
JUNCTION BOX FOR BOX CULVERT TO CONCRETE ARCH PIPE

WORKING NUMBER: JB-1A
SHEET NUMBER: 227.1

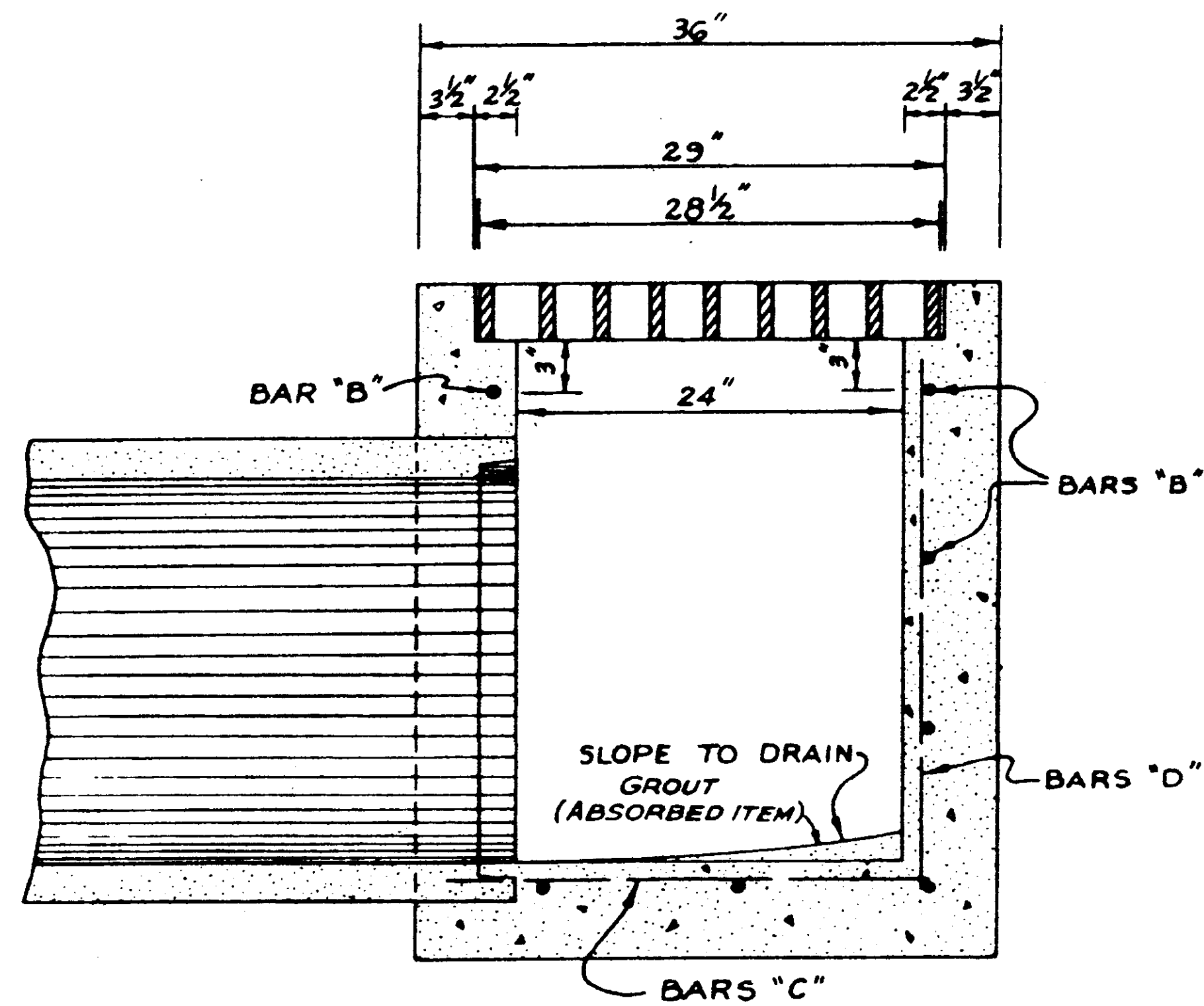
DESIGNED: _____ DETAILED: _____ TRACED: _____
CHECKED: _____ ISSUED: P.B.J. DATE: 11-1-79



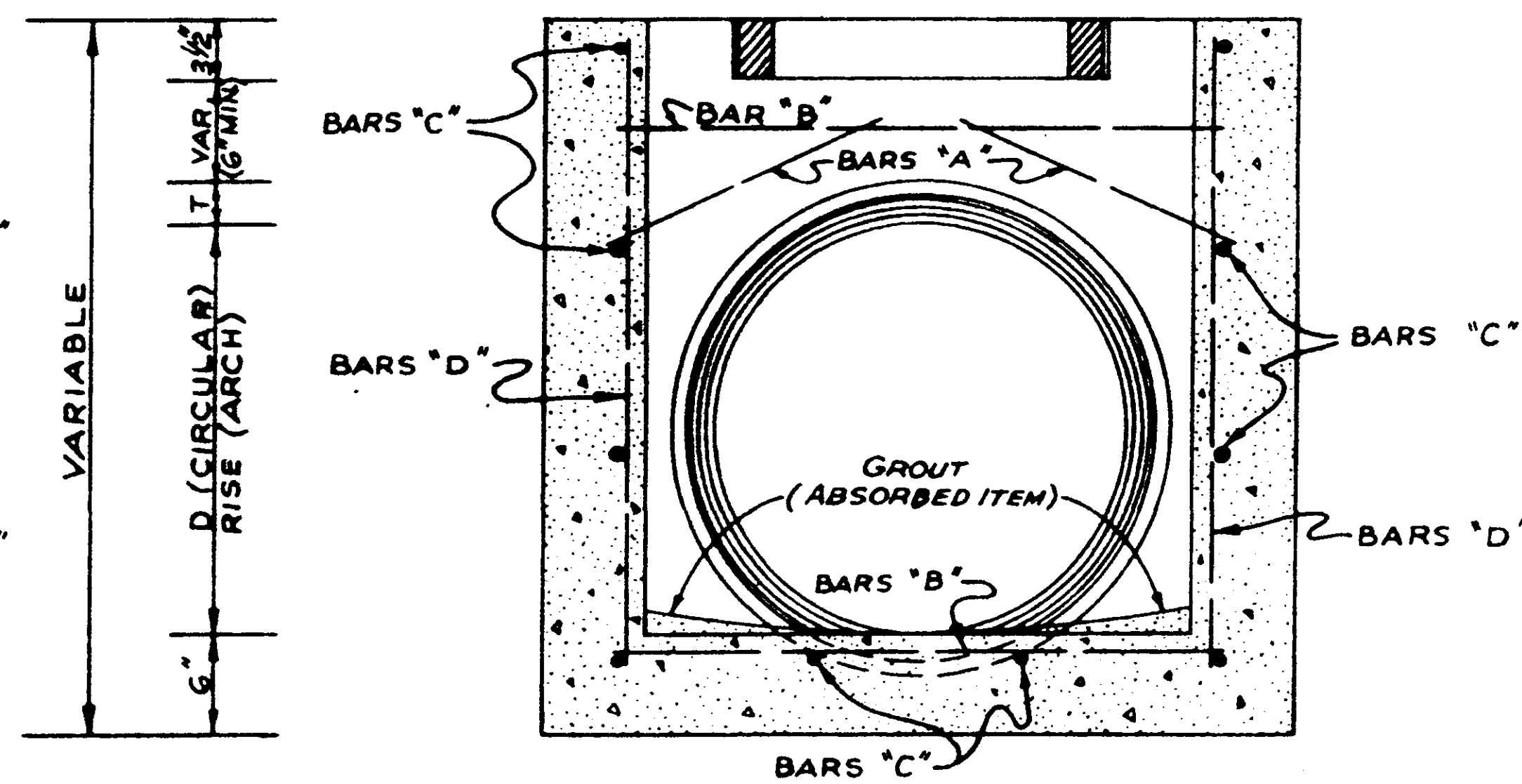
PLAN OF GRATE
NO. 1



PLAN



SECTION A-A



SECTION B-B

PIPE SIZE	MIN. DEPTH TO INLET FL. (FEET)	QUANTITIES				THICKNESS OF PIPE	DEDUCT FOR ADDITIONAL PIPE OPENING
		MIN. DEPTH INLET CONC.	REINF.	EACH ADDED FOOT CONC.	REINF.		
18"	2.500	0.670	48	0.211	10	2 1/2'	0.053
24"	3.042	0.747	54	0.211	10	3	0.091
22" x 13 1/2"	2.125	0.591	46	0.211	10	2 1/2"	0.053

NOTE: ONE (1) PIPE OPENING DEDUCTED FROM INLET.

BAR LIST FOR MINIMUM DEPTH INLET				
PIPE SIZE	"A"	"B"	"C"	"D"
18"	2 @ 1'-6"	6 @ 3'-2"	10 @ 2'-5"	10 @ 2'-6"
24"	2 @ 1'-6"	7 @ 3'-2"	10 @ 2'-5"	10 @ 3'-1"
22" x 13 1/2"	2 @ 1'-6"	6 @ 3'-2"	10 @ 2'-5"	10 @ 2'-4"

GENERAL NOTES

QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.

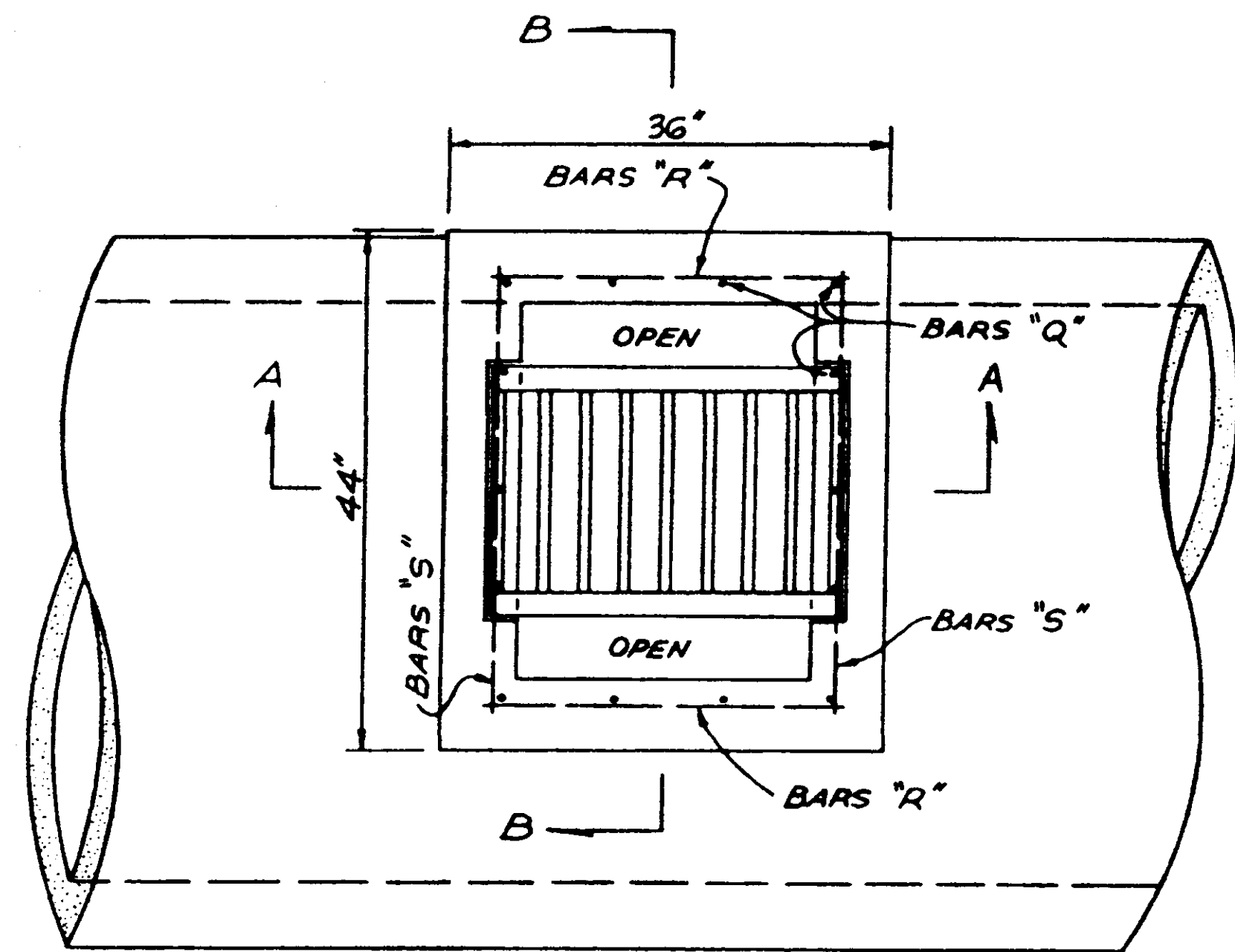
INLET:

- THE INLET ON THIS DRAWING IS SHOWN AS THE ENTRANCE TO A PIPE CULVERT BUT MAY ALSO BE USED ON A CROSSRAIN.
- THE CONCRETE SHALL BE CLASS "B".
- THE REINFORCEMENT SHALL BE NO. 4 BARS SPACED A MAXIMUM OF 12" O.C. BOTH WAYS WITH A MINIMUM CLEARANCE OF 1" TO THE INSIDE OF THE INLET WALLS.

GRATE:

THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET NO. 233.

MISSISSIPPI STATE HIGHWAY DEPARTMENT			
TYPE I MEDIAN INLET (24" PIPE AND UNDER)			
DESIGNED	DATE	TRACED	DATE
CHECKED	ISSUED	DATE	DATE
WORKING NUMBER MI-1			SHEET NUMBER 229



PLAN

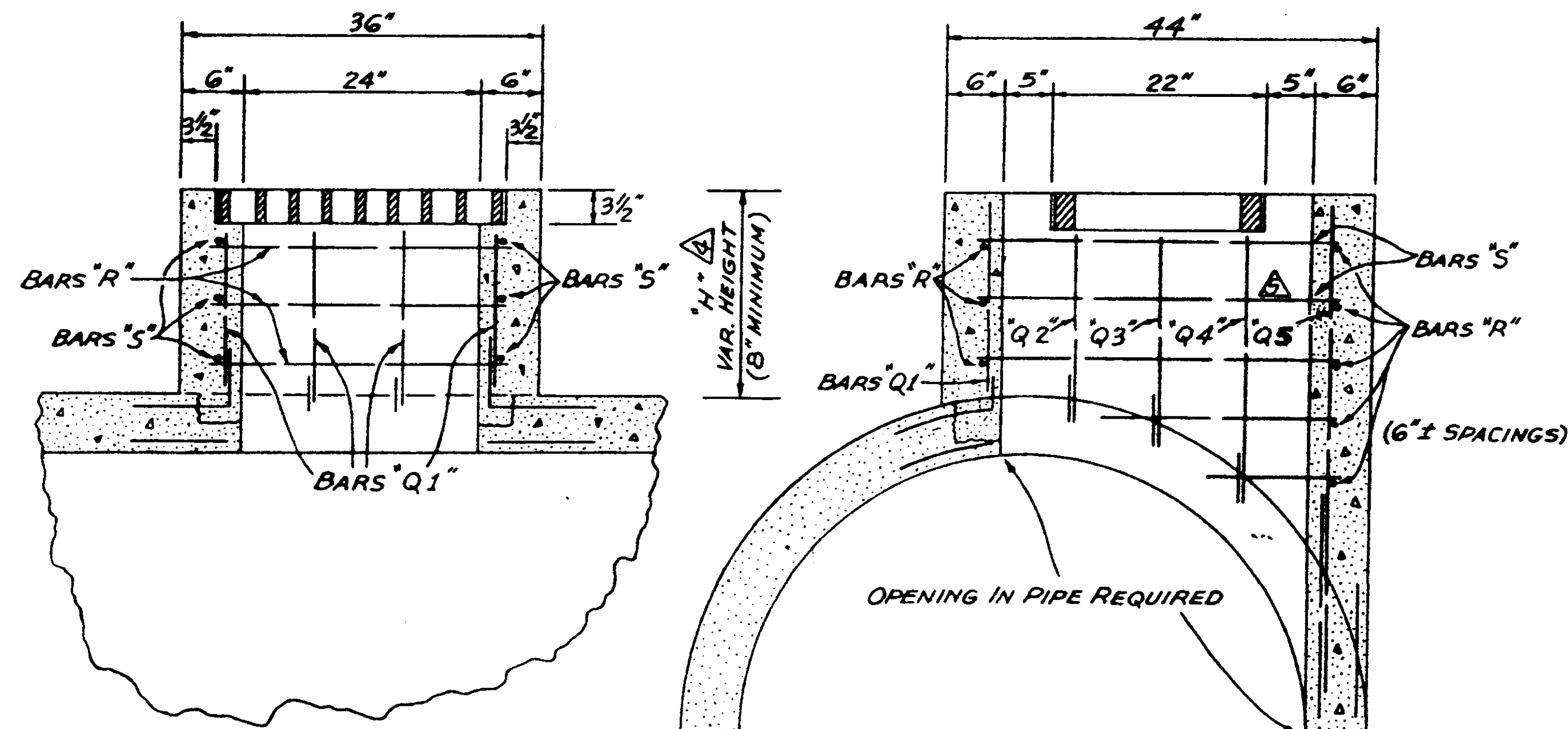
BARS "R" L=30"
BARS "S" L=36"

INLET HEIGHT
+ SLAB T-5"
6"
BAR "Q"
14 REQ'D.

* MIN. HEIGHT TYPE I INLET QUANTITIES									
PIPE SIZE	CL. "B" CONC. (C.Y.)	REINF. STEEL (LBS)	BAR LIST						
			Q1	Q2	Q3	Q4	Q5	R	S
54"	0.317	45	4@1'-1"	2@1'-1"	2@1'-3"	2@1'-7"	4@3'-9"	9@2'-6"	6@3'-0"
60"	0.337	48	4@1'-1"	2@1'-1"	2@1'-3"	2@1'-8"	4@4'-1"	10@2'-6"	6@3'-0"
66"	0.360	49	4@1'-1"	2@1'-2"	2@1'-4"	2@1'-10"	4@4'-4"	10@2'-6"	6@3'-0"
72"	0.384	52	4@1'-1"	2@1'-2"	2@1'-5"	2@1'-11"	4@4'-8"	11@2'-6"	6@3'-0"
58" x 36"	0.292	44	4@1'-1"	2@1'-1"	2@1'-3"	2@1'-7"	4@3'-4"	9@2'-6"	6@3'-0"
65" x 40"	0.313	45	4@1'-1"	2@1'-2"	2@1'-4"	2@1'-9"	4@3'-7"	9@2'-6"	6@3'-0"
73" x 45"	0.335	48	4@1'-1"	2@1'-2"	2@1'-5"	2@1'-11"	4@3'-10"	10@2'-6"	6@3'-0"
88" x 54"	0.394	52	4@1'-2"	2@1'-4"	2@1'-8"	2@2'-2"	4@4'-5"	11@2'-6"	6@3'-0"
EACH ADD. FT. HEIGHT	0.210	24							①

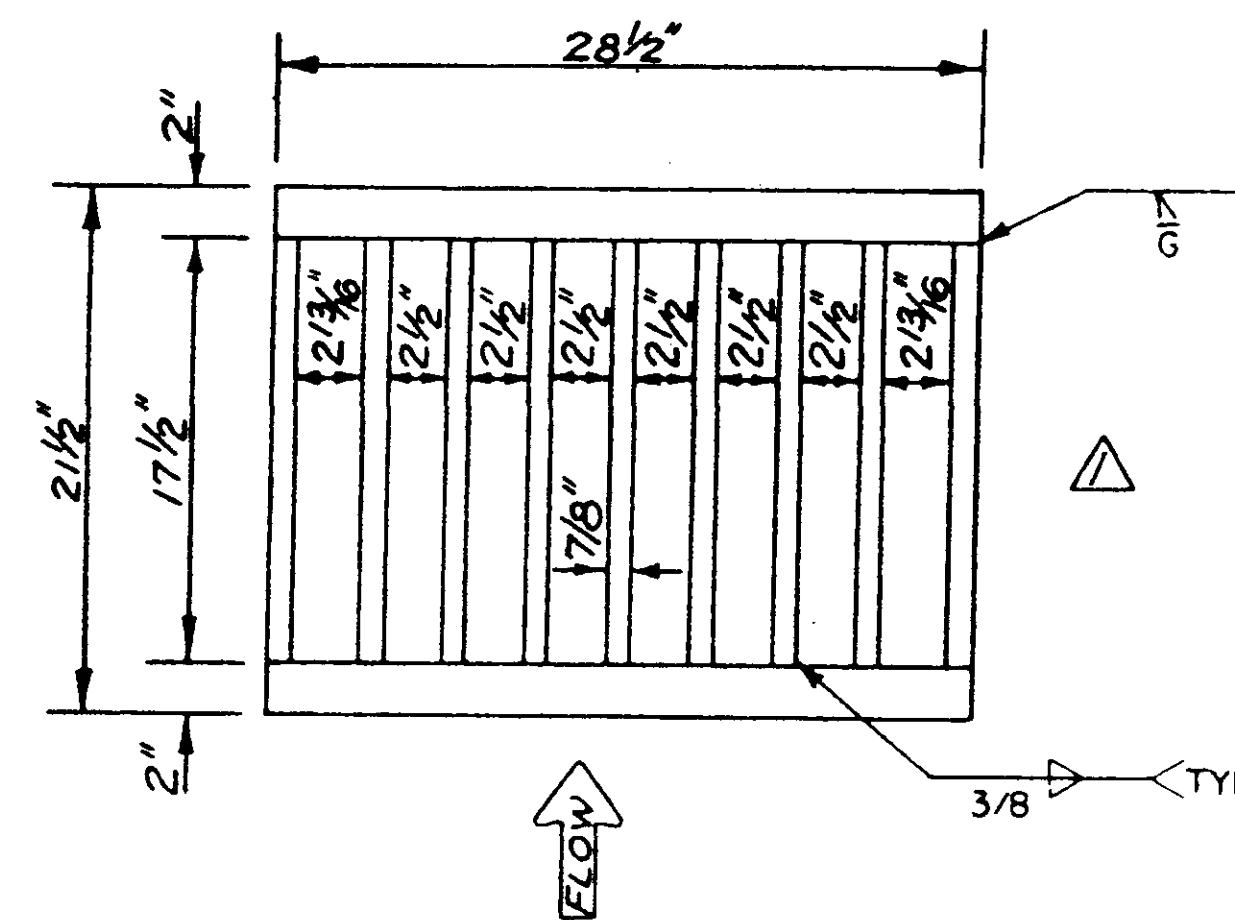
* 8" MINIMUM HEIGHT INLET

① 2 BARS MAY BE FIELD CUT TO PROVIDE VARIABLE LENGTH "S" BARS AS SHOWN.



SECTION A-A

SECTION B-B



PLAN OF GRATE NO. 1

GENERAL NOTES

QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.

INLET:

1. THE CONCRETE SHALL BE CLASS "B".
2. THE REINFORCEMENT SHALL BE NO. 4 BARS SPACED A MAXIMUM OF 12" OC BOTH WAYS, WITH A MINIMUM CLEARANCE OF "1" TO THE INSIDE OF THE INLET WALLS.

GRATE:

THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET NO. 233.

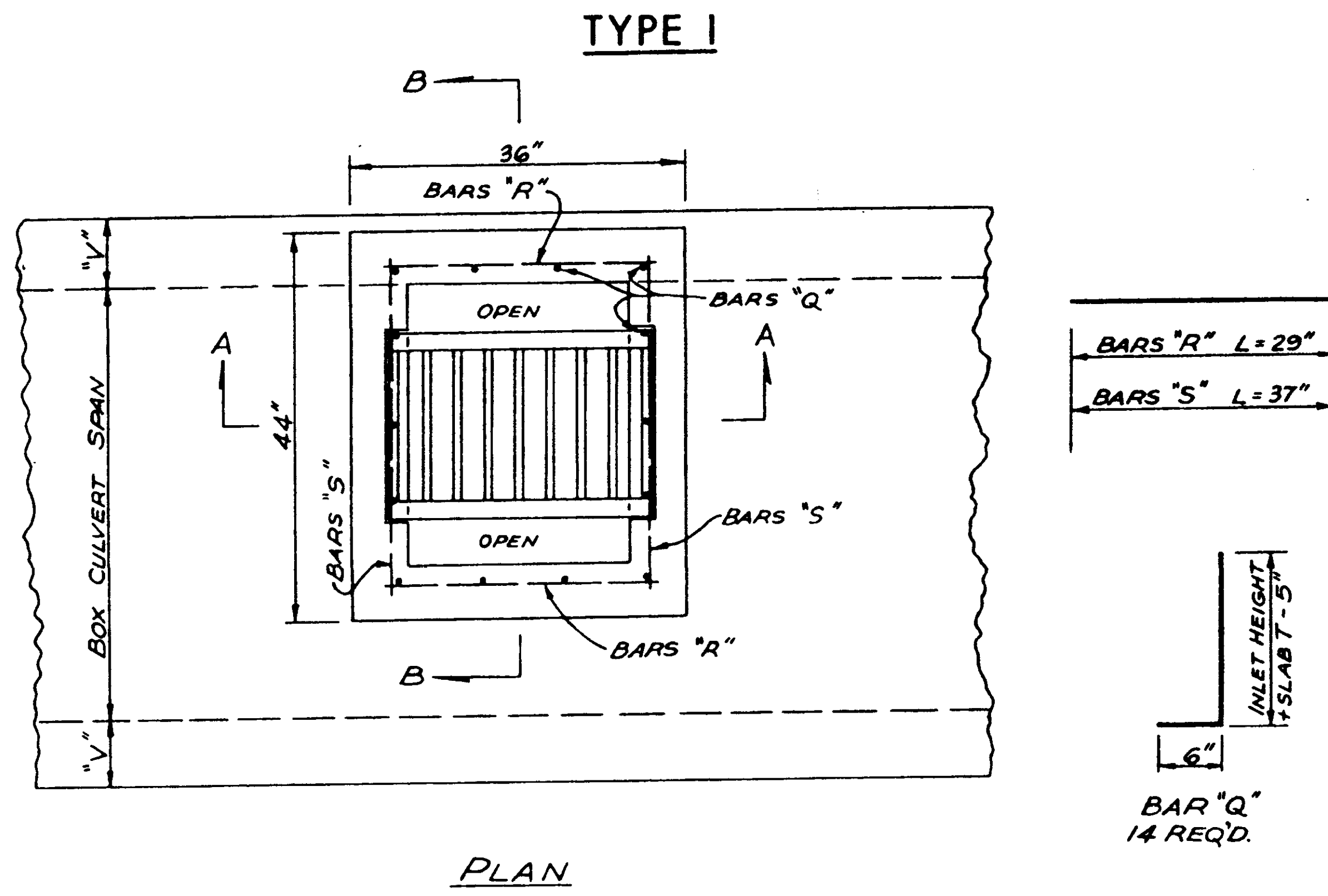
DESIGNED	DATE	BY	MINIMUM HEIGHT	REVISIONS	AWK	DATE	ISSUED	DATE	11-1-79
7/1/79	12-5-80	AWK	555						
4/1/80									

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

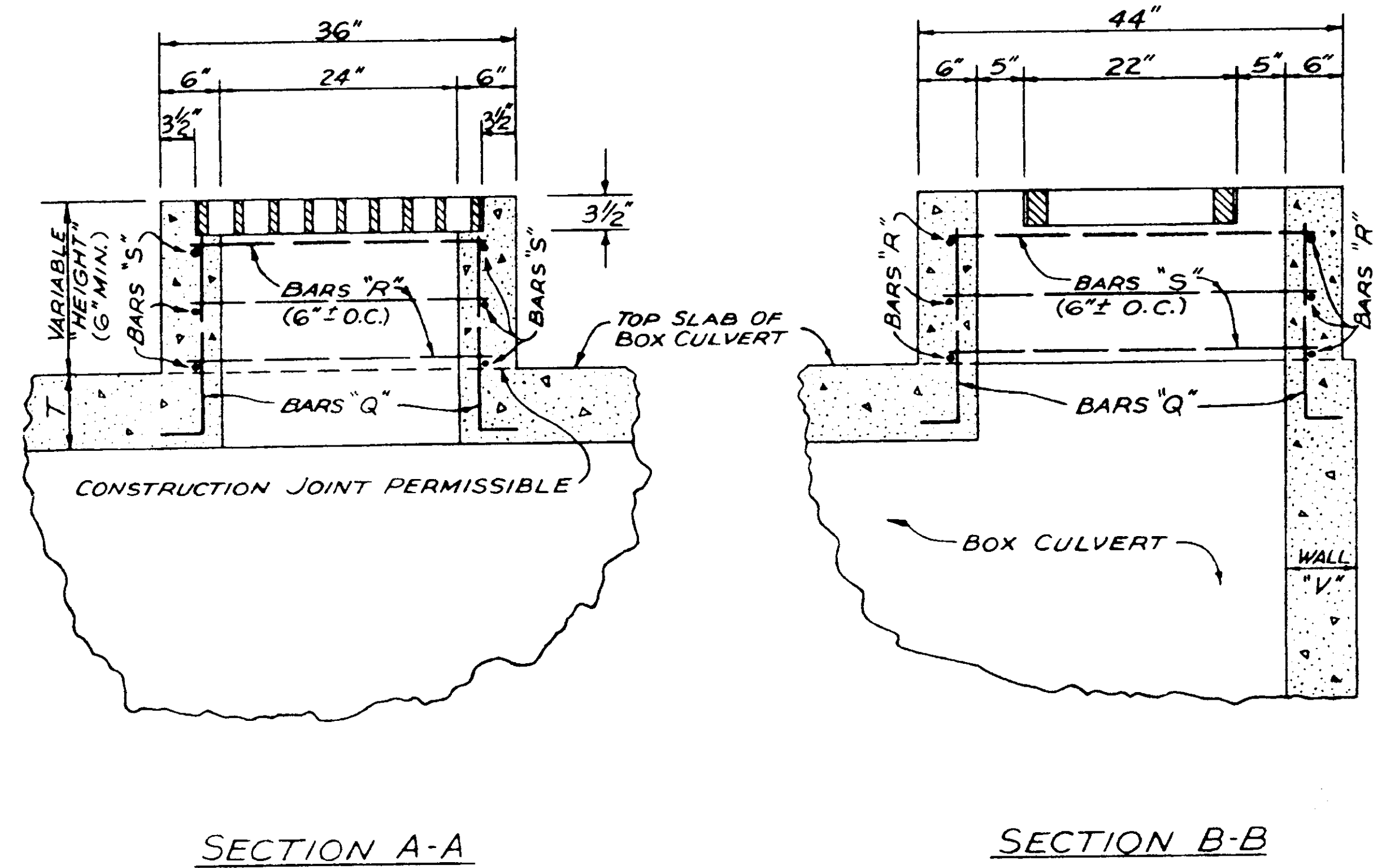
TYPE I MEDIAN INLET (OVER 51" PIPE)

WORKING NUMBER MI-1B

SHEET NUMBER 229.2

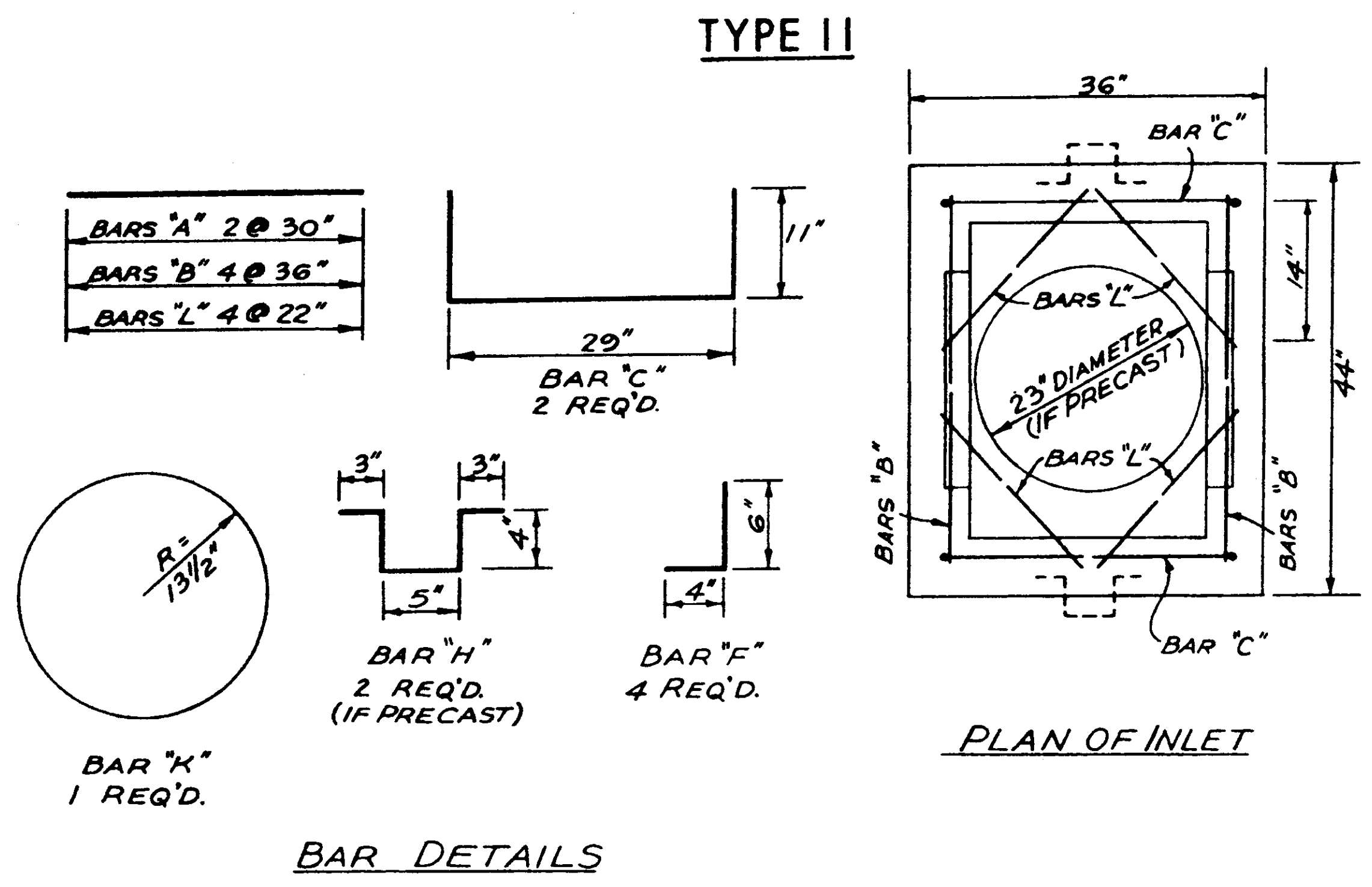


PLAN

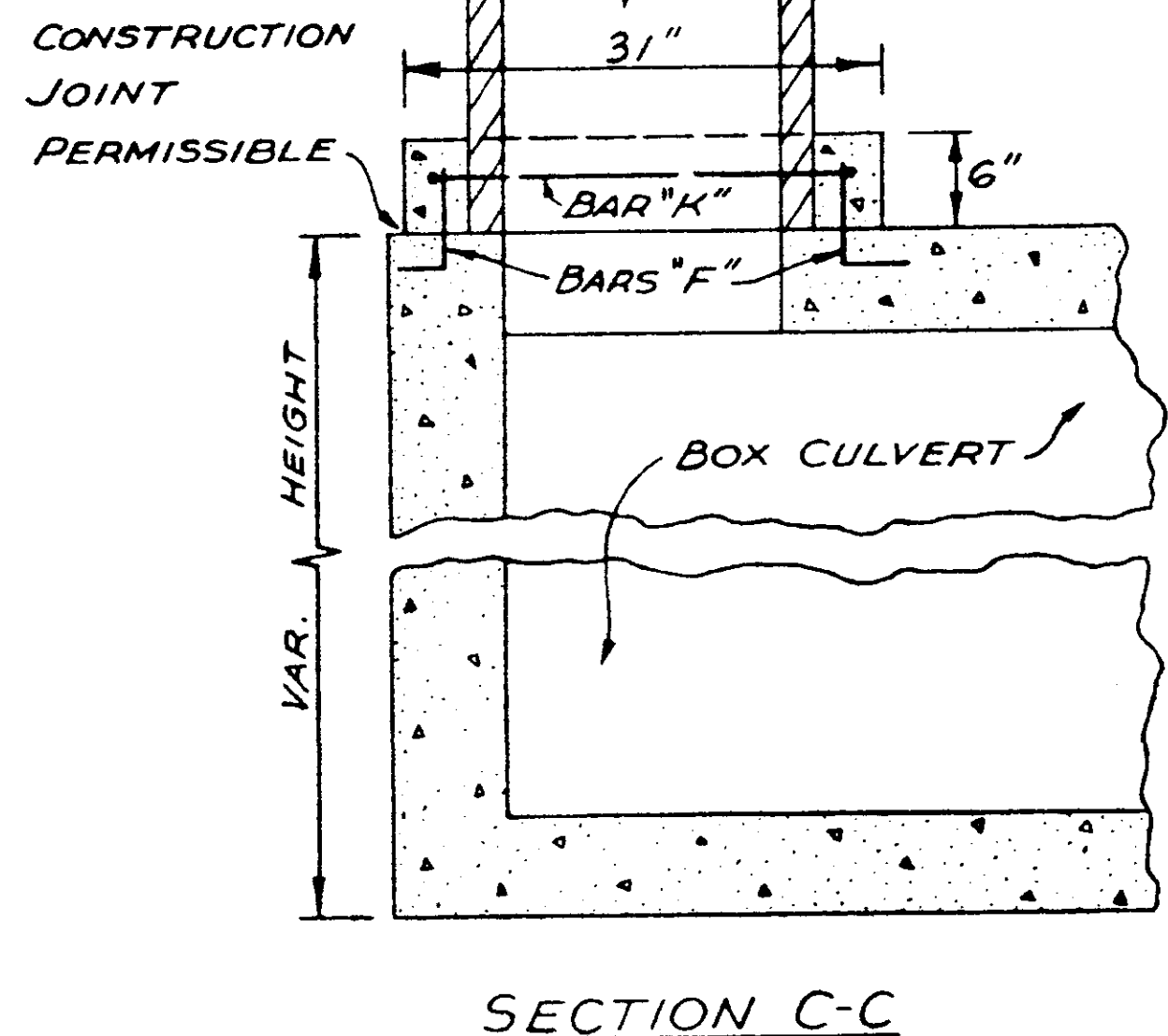
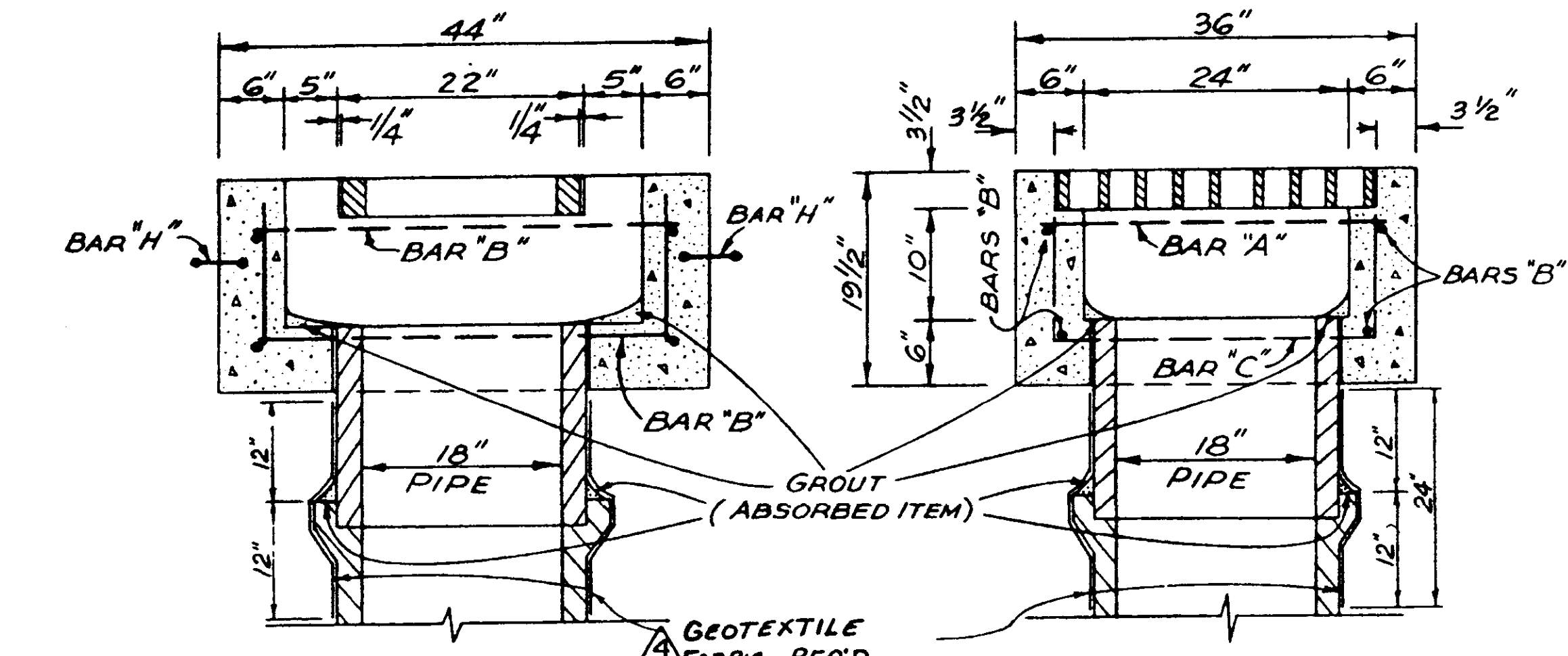


SECTION A-A

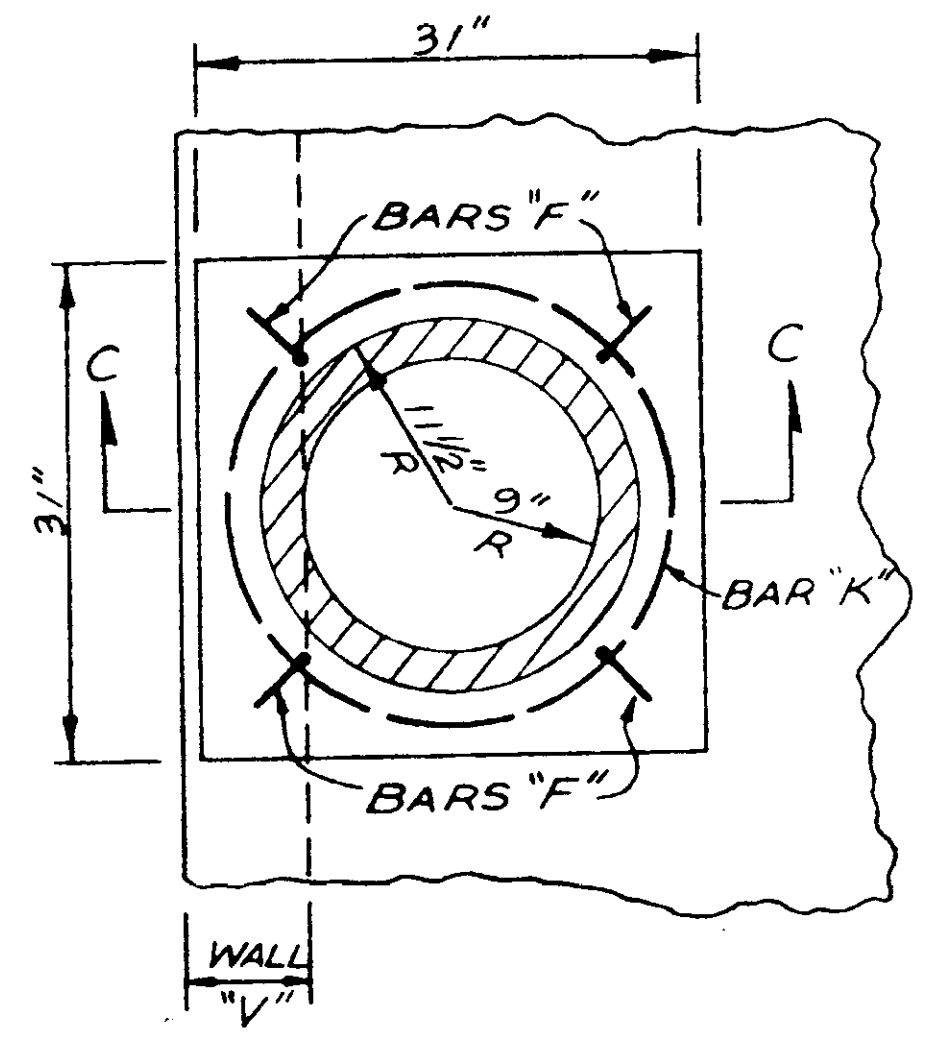
SECTION B-B



BAR DETAILS



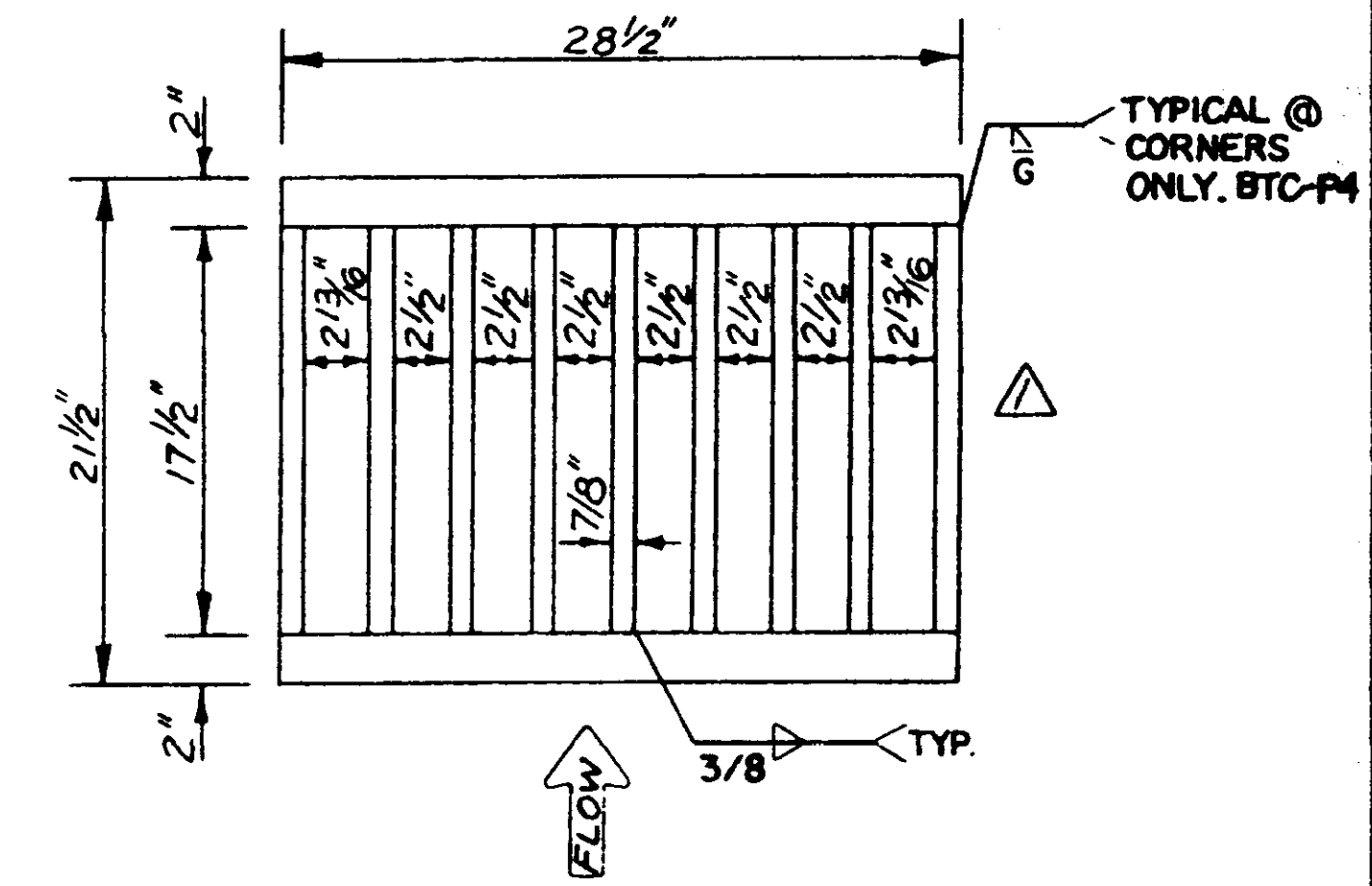
SECTION C-C



PLAN OF CONCRETE COLLAR TO ACCOMMODATE STACK PIPE

INLET QUANTITIES				
INLET TYPE	CLASS "B" CONCRETE (C.Y.)	* REINF. STEEL (LBS.)	EACH ADDED FOOT	
			CLASS "B" CONCRETE (C.Y.)	REINF. STEEL (LBS.)
I	0.097	18	0.210	24
II	0.448	30		

* 6" MINIMUM HEIGHT INLET WITH AN ASSUMED BOX CULVERT "T" OF 6".
 Δ NOTE-ALL REINFORCE BARS ARE NO. 4 @ DEF.

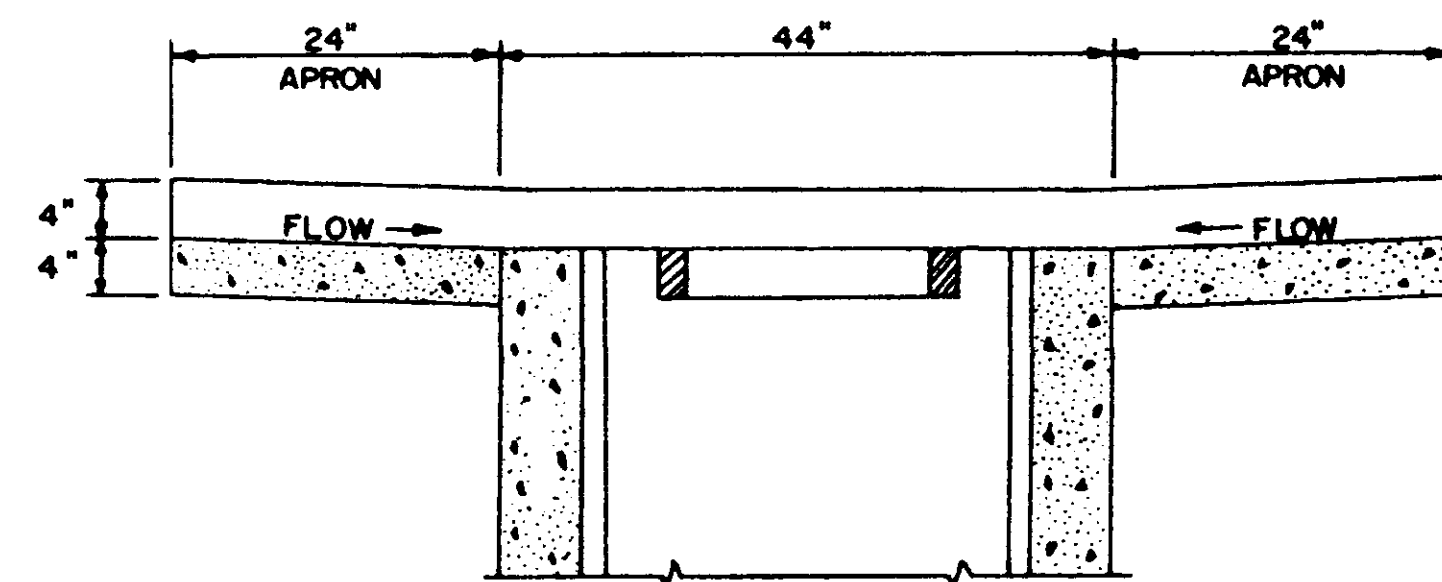


PLAN OF GRATE NO. 1

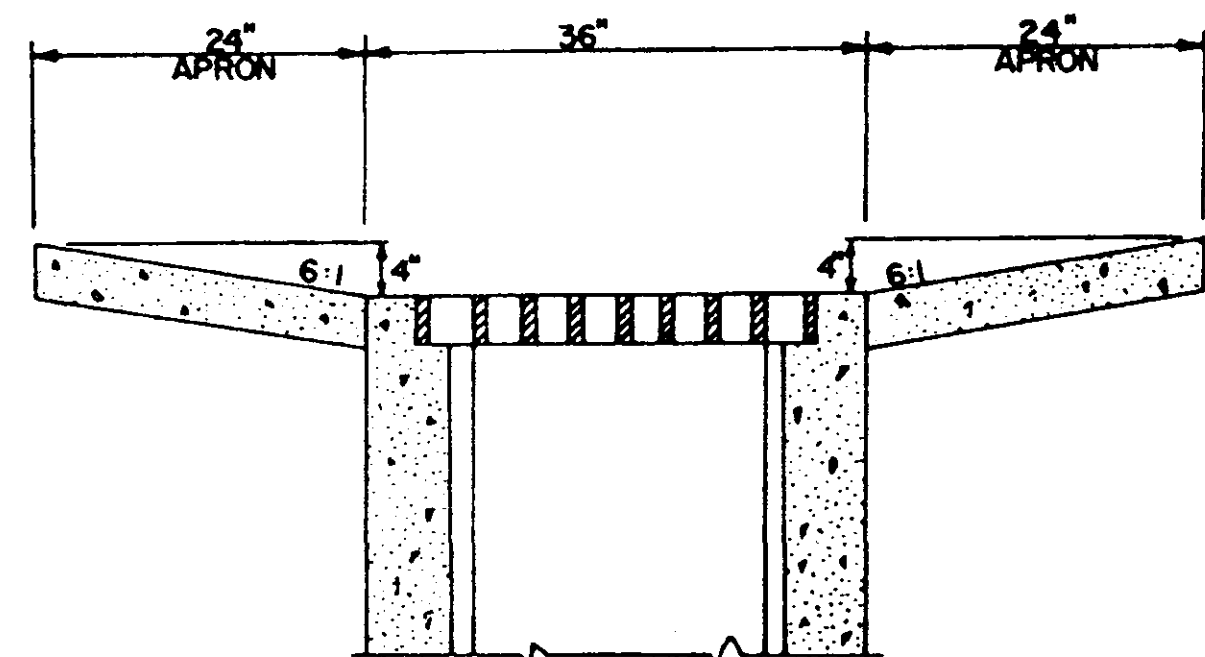
GENERAL NOTES

- QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
- ANY STACK PIPE WHICH MUST BE CUT OFF WILL BE PAID FOR AS LINEAR FEET OF PIPE AS THOUGH INSTALLED.
- EACH STACKED PIPE JOINT SHALL BE WRAPPED WITH GEOTEXTILE FABRIC (AASHTO DESIGNATION M288, E.O.S. = 100+) (24" WIDE) THE FABRIC SHALL OVERLAP A MINIMUM OF 12" AT THE WRAP AND SHALL BE SECURED WITH STRING OR WIRE FOR BACKFILLING. THE COST FOR THE MATERIALS AND LABOR SHALL BE ABSORBED.
- GRATE: THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET NO. 233.

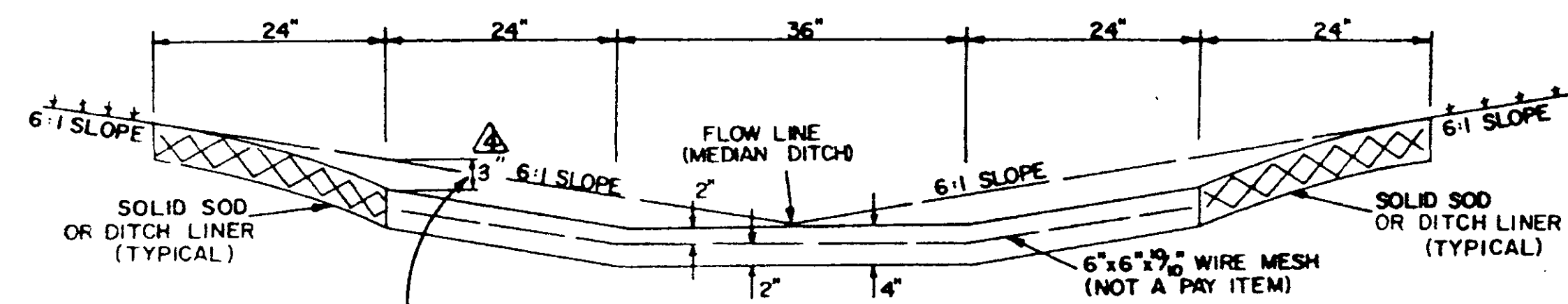
S.W.R.				JUS				ANK				JWS				ANK				BY																			
7-5-74				7-1-74				8-25-74				4-11-80				DATE				DESIGNED				DETAILED				TRACED				CHECKED				ISSUED D.B.J. DATE 11-1-79			
MISSISSIPPI DEPARTMENT OF TRANSPORTATION																WORKING NUMBER MI-3																							
MEDIAN INLETS FOR BOX CULVERTS (TYPE I AND II)																SHEET NUMBER 231																							



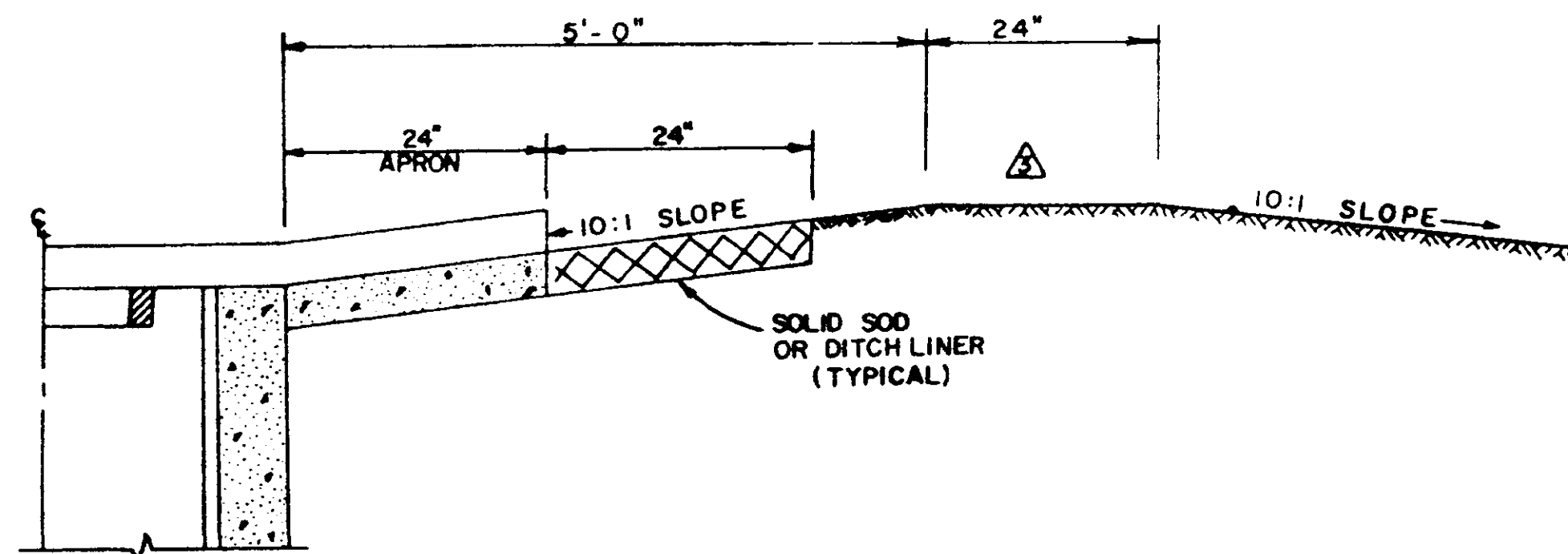
SECTION A-A
APRON REINFORCEMENT & SOLID SOD NOT SHOWN
(SEE SECTION C-C)



SECTION B-B
APRON REINFORCEMENT & SOLID SOD NOT SHOWN
(SEE SECTION C-C)

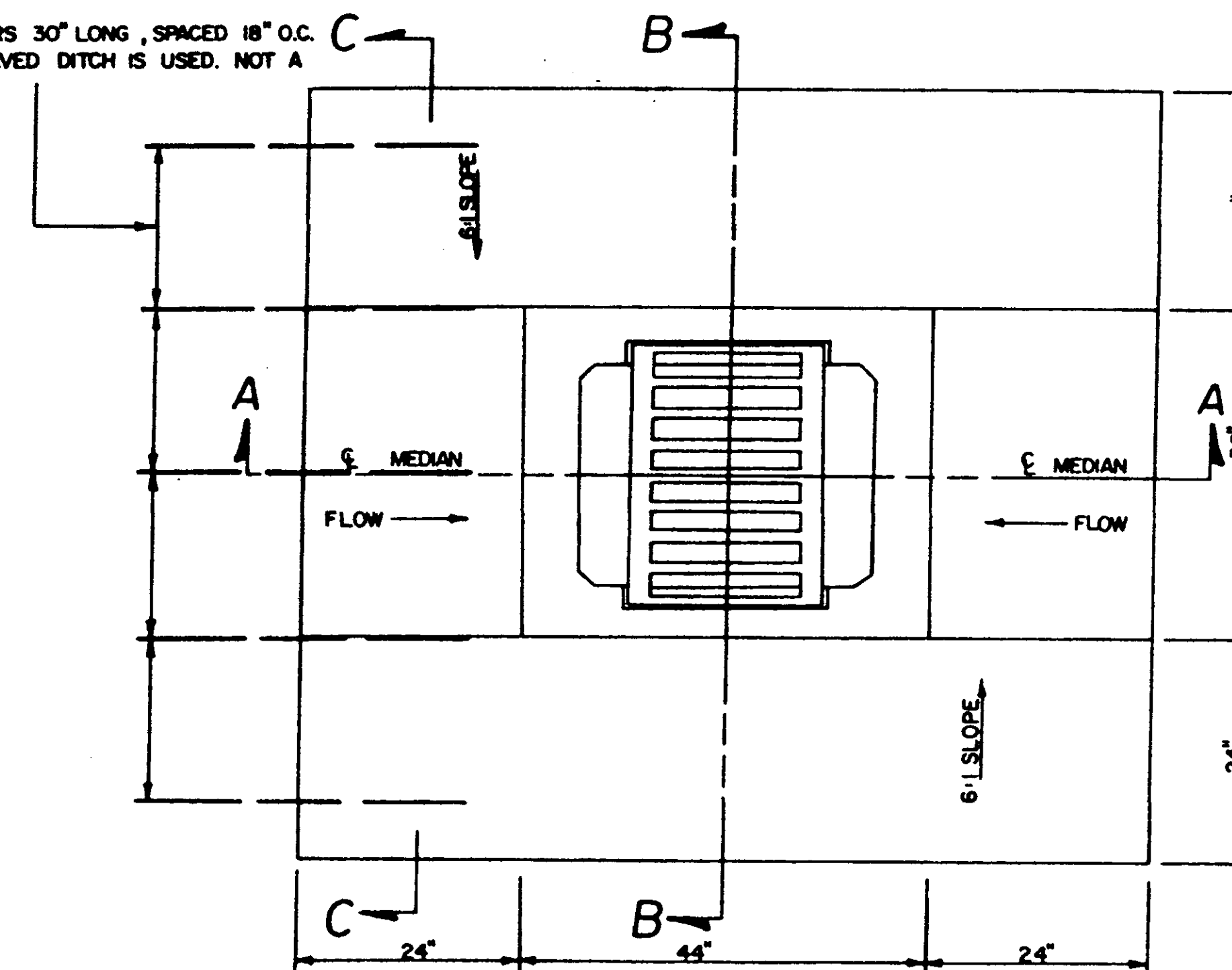


SECTION C-C
FINISH GRADE OF PAVED DITCH SHALL BE 3" BELOW
FINISH GRADE OF SLOPE AS SHOWN.



HALF SECTION A-A SHOWING DITCH PLUG

TYPICAL 1/2" Ø BARS 30" LONG, SPACED 18" O.C.
(REQ'D WHERE PAVED DITCH IS USED, NOT A
PAY ITEM)



PLAN OF INLET & PAVED APRON

GENERAL NOTES

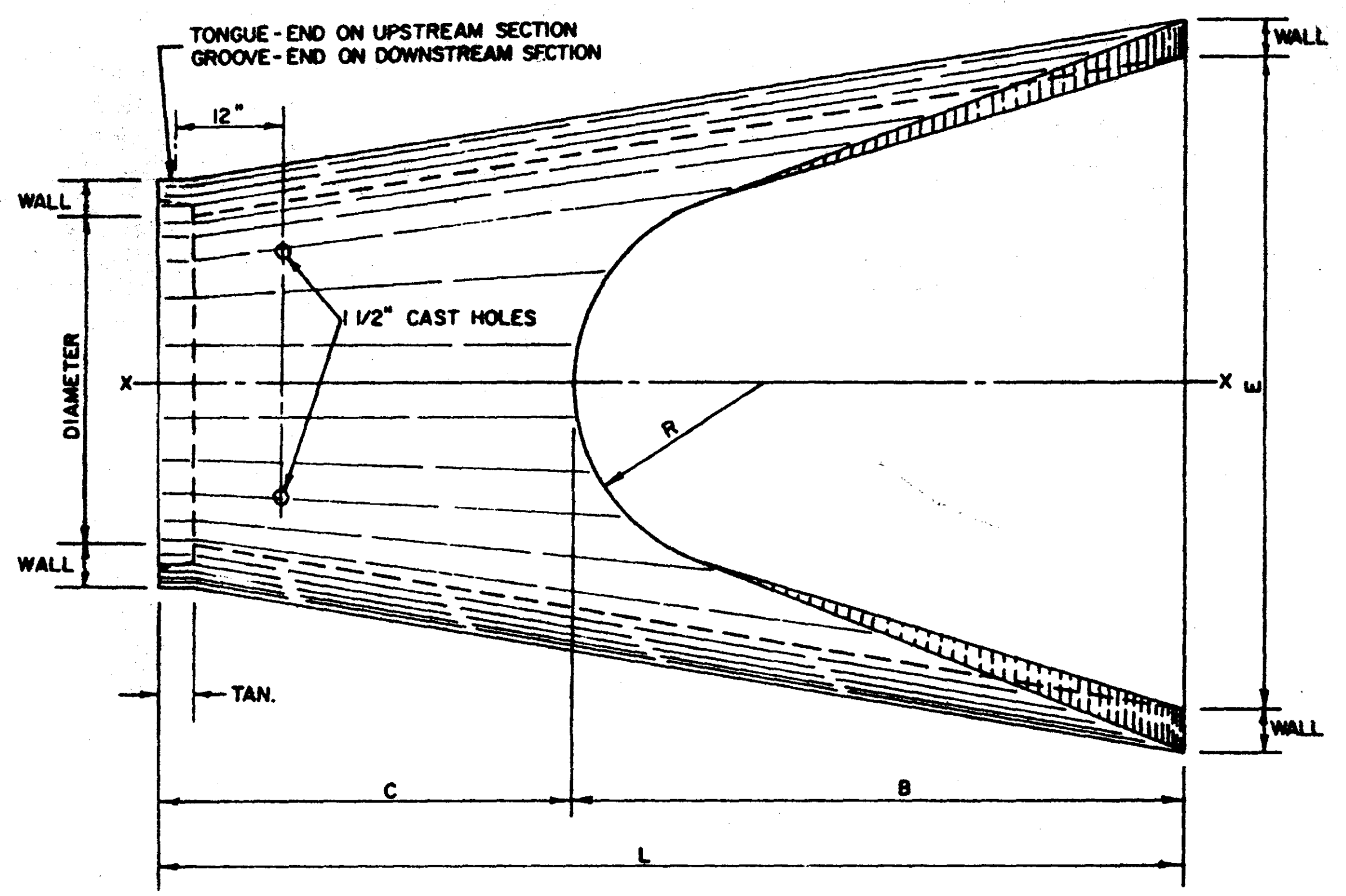
1. CONSTRUCTION JOINTS TO BE TIED WITH FIVE 1/2" Ø BARS 30" LONG SPACED 18" O.C. EXPANSION JOINT WILL NOT BE USED. CHAIR SUPPORTS FOR THE WIRE MESH WILL NOT BE REQUIRED. HOWEVER, THE CONTRACTOR SHALL PLACE THE WIRE MESH IN A SATISFACTORY AND WORKMANLIKE MANNER TO INSURE THAT THE FINAL POSITION IS REASONABLY NEAR THE POSITION INDICATED.
2. PAVED APRON TO BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH THE REQUIREMENTS FOR PAVED DITCHES
3. 0.532 CU. YDS. CLASS "C" CONCRETE REQUIRED.
4. QUANTITY SHOWN WILL BE USED AS THE BASIS FOR FINAL PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.

DESIGNED		CHECKED		DATE	
D.B.J.		D.B.J.		11-1-79	
REVISIONS		DATE		BY	
1	ADDED QUANTITY	7-15-88	AWK		
2		4-2-80	AWK		
3		8-10-84	AWK		
4		2-5-88	AWK		

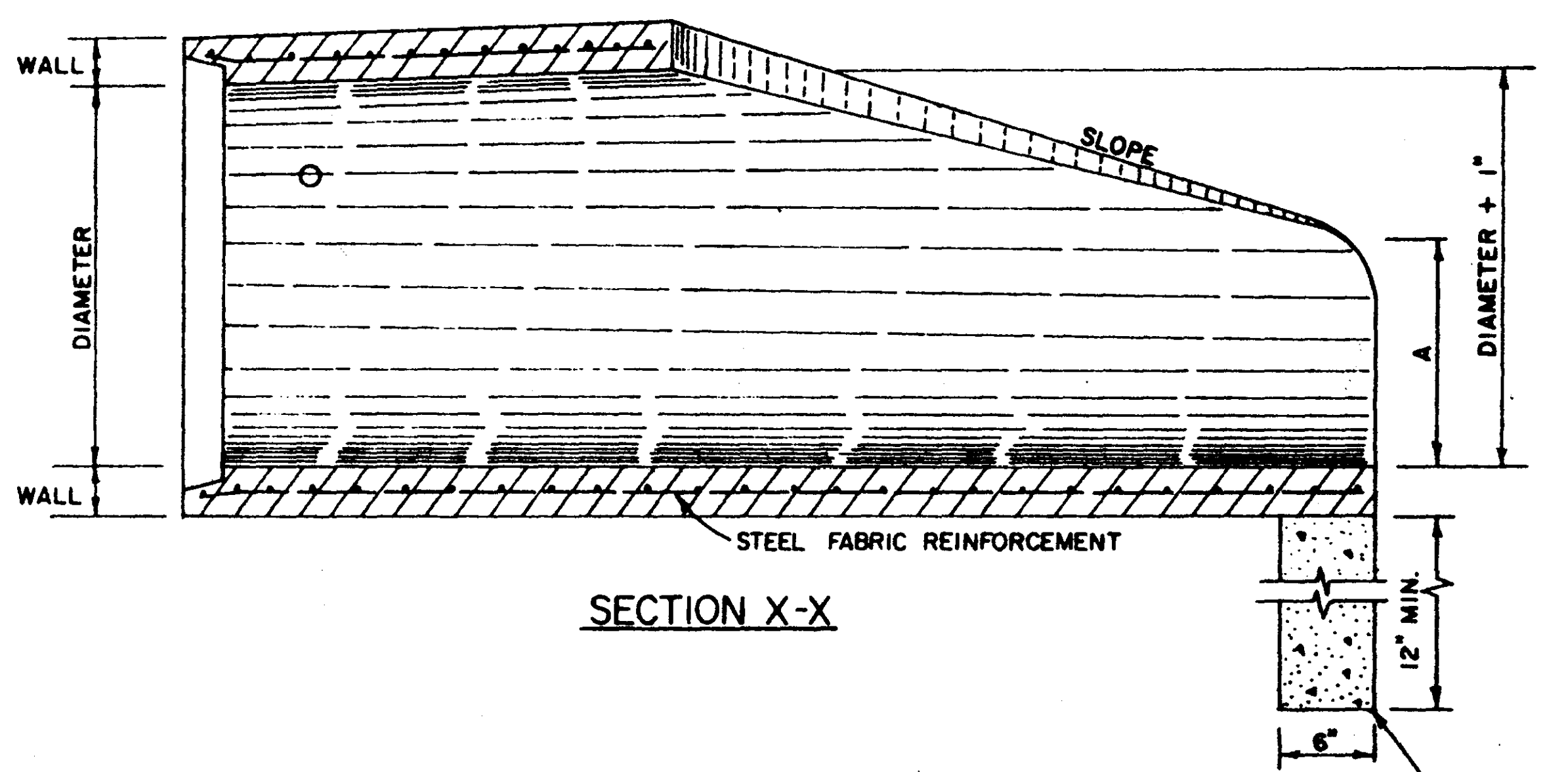
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**PAVED INLET APRON
AND
MEDIAN DITCH PLUG**

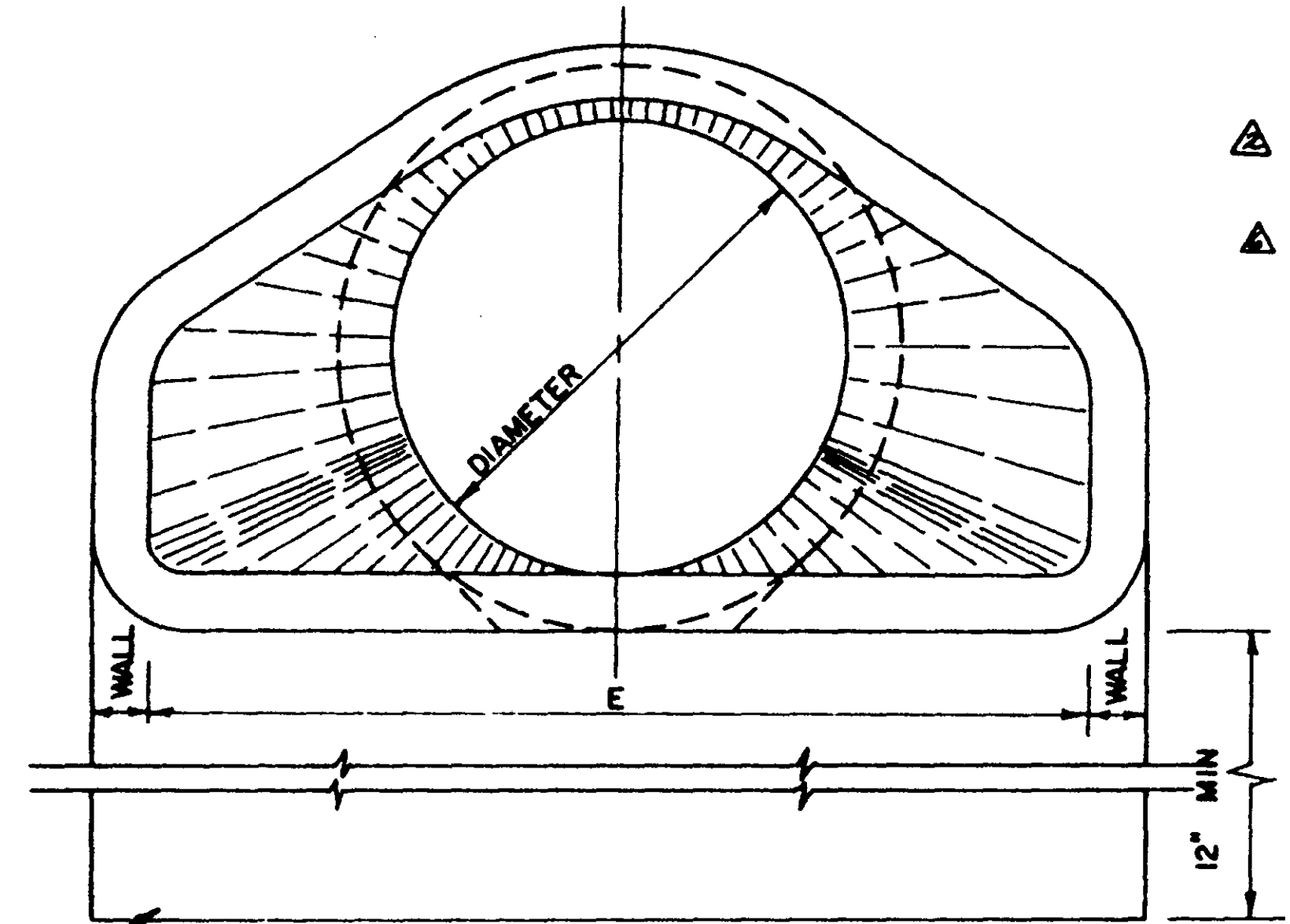
WORKING NUMBER	PA-1
SHEET NUMBER	235



PLAN
(DRAWN FOR DOWNSTREAM SECTION)



SECTION X-X



END ELEVATION

TABLE OF DIMENSIONS							
DIA.	WALL	SLOPE	A	B	C	E	L
15"	2 1/4"	3:1	6"	2'-3"	4'-1"	2'-8"	6'-1"
18"	2 1/2"	3:1	9"	2'-3"	3'-10"	3'-0"	6'-1"
24"	3"	3:1	10"	3'-8"	2'-6"	4'-0"	6'-2"
30"	△ 3 1/2"	3:1	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"
36"	4"	3:1	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
42"	4 1/2"	3:1	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
48"	5"	3:1	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
54"	5 1/2"	3:1	2'-4"	6'-6"	1'-10"	7'-6"	8'-4"
② 60"	6"	3:1	2'-10"	6'-6"	1'-10"	8'-0"	8'-4"
② 66"	6 1/2"	3:1	3'-4"	6'-6"	1'-10"	8'-6"	8'-4"
② 72"	7"	3:1	3'-10"	6'-6"	1'-10"	9'-0"	8'-4"

TOE WALL QUANTITY CL. "B" CONC. (C.Y.)
0.056
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.177
0.188

GENERAL NOTES

1. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO DESIGNATION M170, TABLE 2, WALL B.
2. 2-1 1/2" φ CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2-1" φ TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
3. LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
4. FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.

△ TOE WALL REQUIRED ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALL AT UPSTREAM END WILL BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE - MINOR STRUCTURES.

DESIGNED	DATE	11-1-79
DRAWN	DATE	11-1-79
CHECKED	DATE	11-1-79
APPROVED	DATE	11-1-79

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
FLARED END SECTION
FOR CONCRETE PIPE

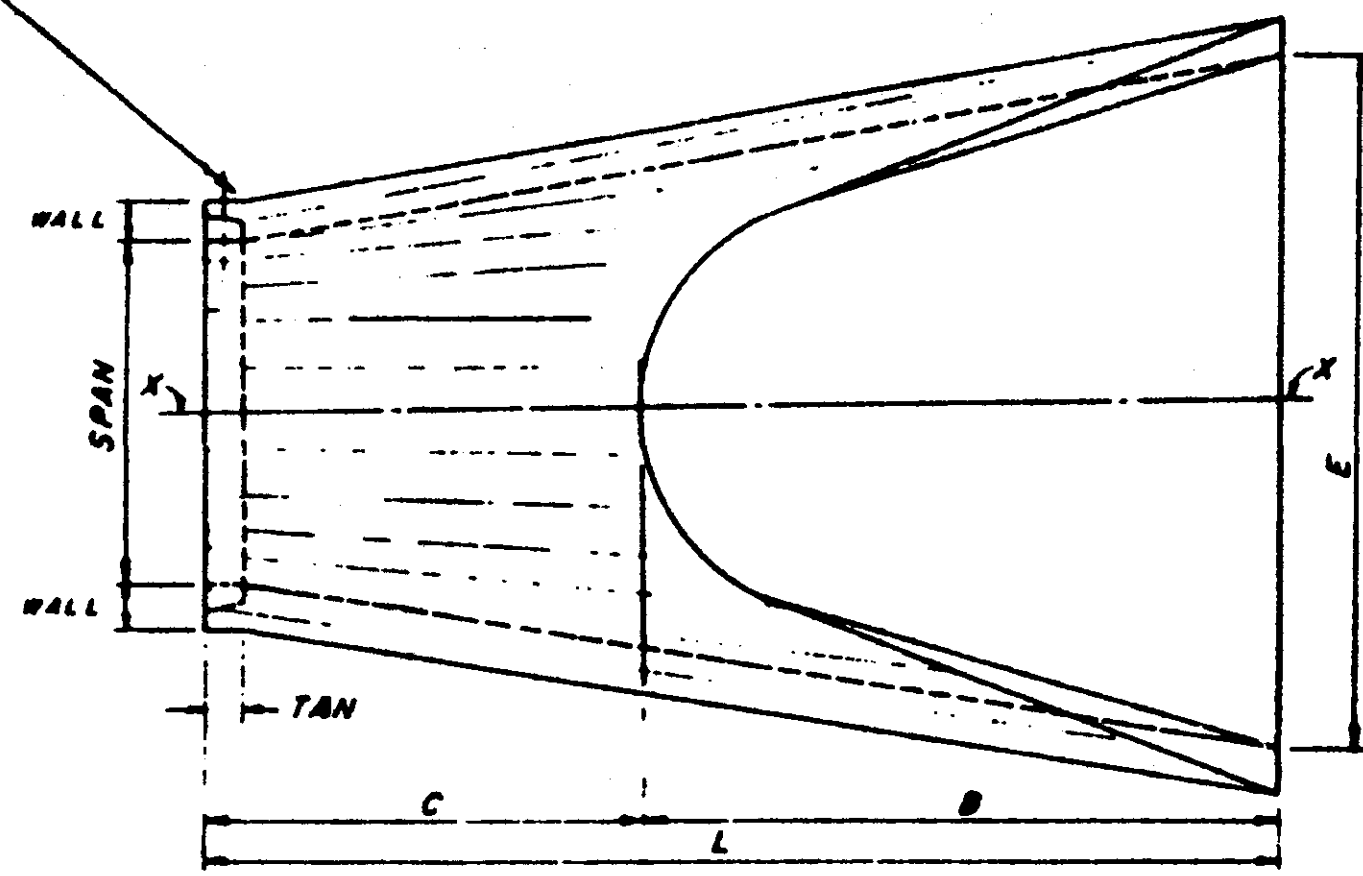
WORKING NUMBER	FE-1
SHEET NUMBER	244

TYPE I

TYPE II

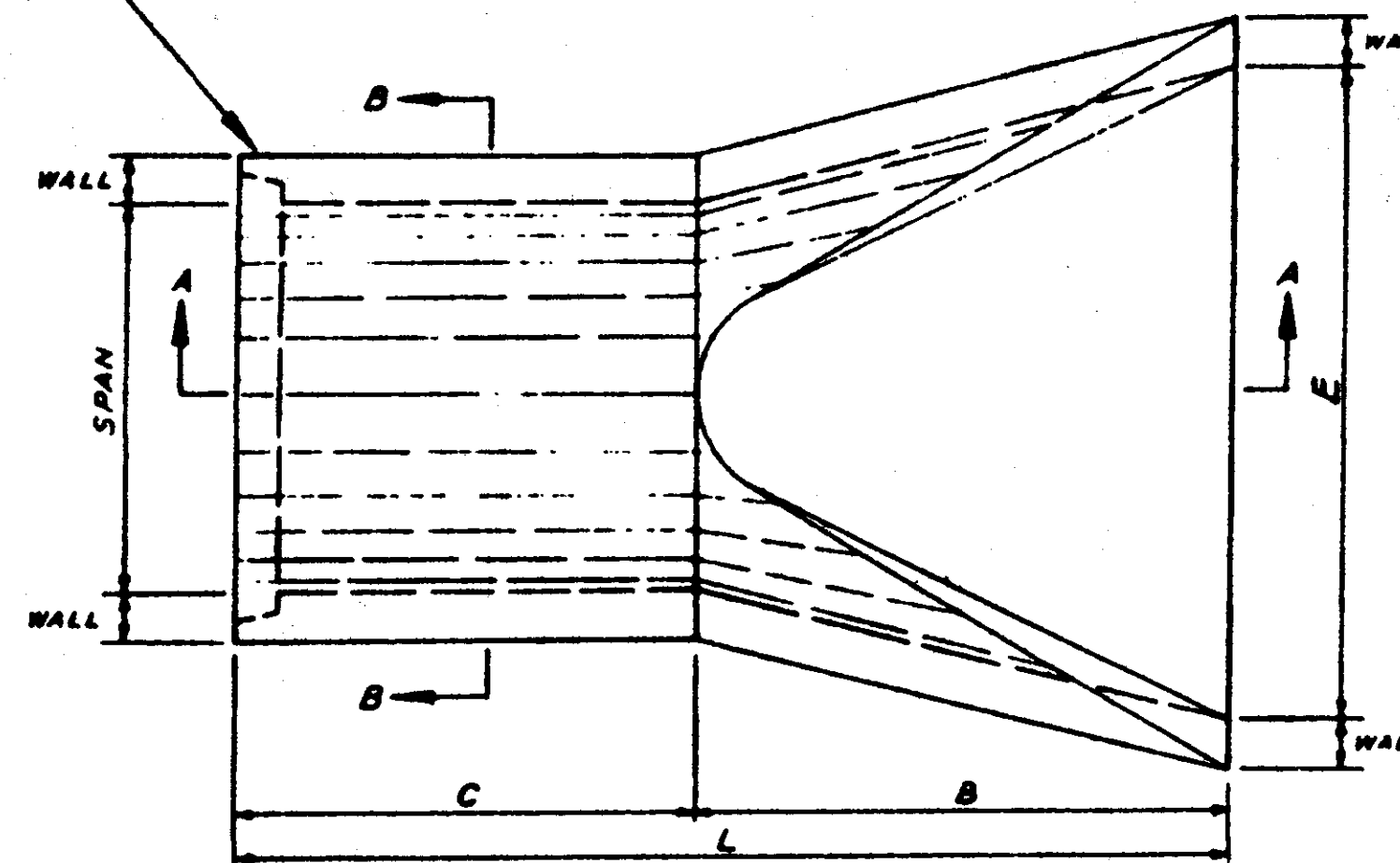
TONGUE-END ON UPSTREAM SECTION
GROOVE-END ON DOWNSTREAM SECTION

TONGUE-END ON UPSTREAM SECTION
GROOVE-END ON DOWNSTREAM SECTION



PLAN
(DRAWN FOR DOWNSTREAM SECTION)

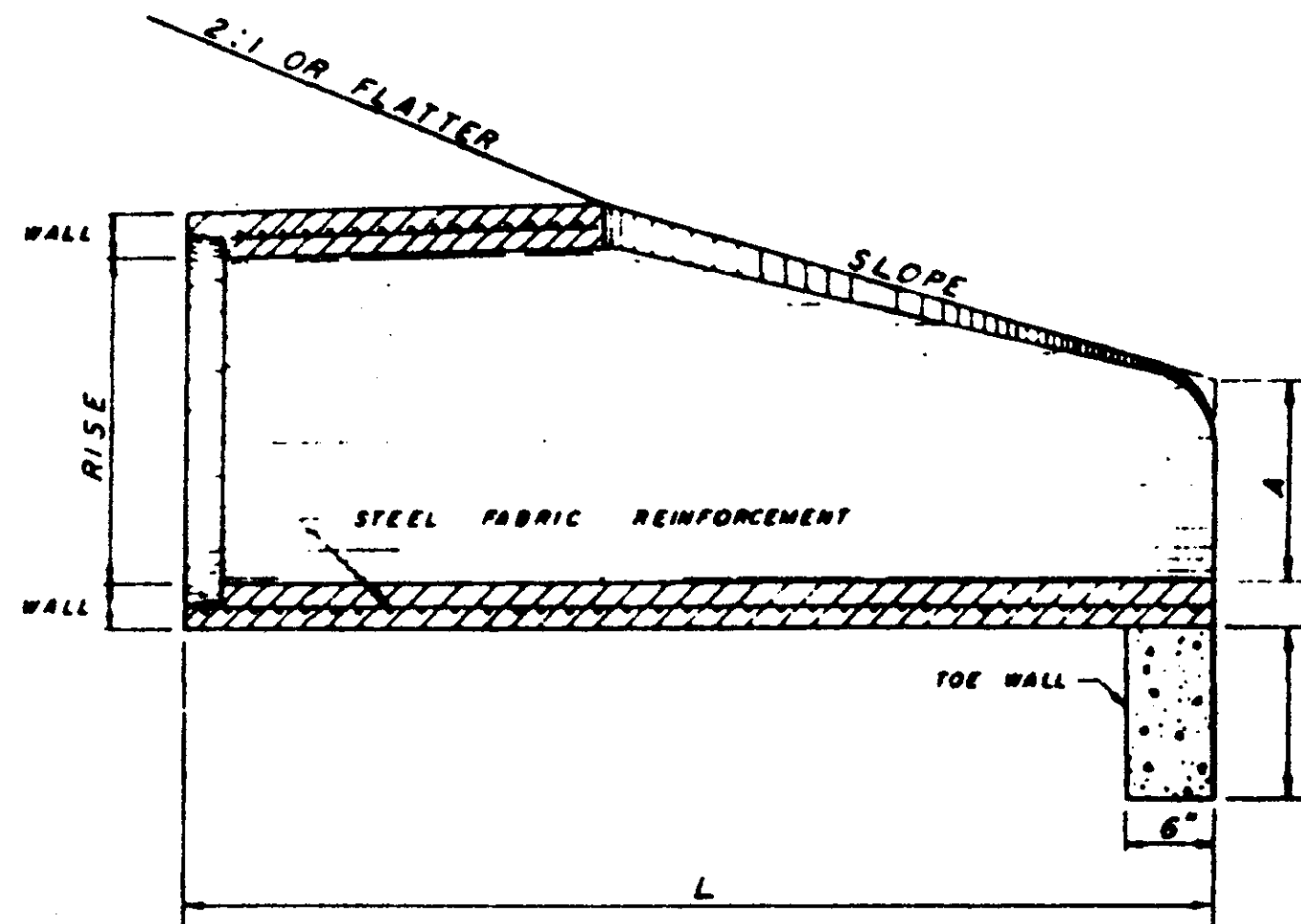
FLARED END SECTION FOR CONCRETE ARCH PIPE											TOE WALL QUANTITY (CL B' C' E' L')
EDG. SIZE	RISE	SPAN	WALL	SLOPE	A	B	C	E	L	TOE WALL QUANTITY (CL B' C' E' L')	
18"	13 1/2"	22"	2 1/2"	3:1	7'	2'-3"	3'-9"	3'-0"	6'-0"	0.063	
24"	18"	28 1/2"	3"	3:1	8'	3'-3"	2'-9"	4'-0"	6'-0"	0.083	
30"	22 1/2"	36 1/2"	3 1/2"	3:1	10'	4'-0"	2'-0"	5'-0"	6'-0"	0.102	
36"	26 3/8"	43 3/8"	4"	3:1	10 3/8"	5'-0"	3'-0"	6'-0"	8'-0"	0.123	
42"	31 1/8"	51 1/8"	4 1/2"	3:1	11 3/8"	5'-0"	3'-0"	6'-6"	8'-0"	0.134	
48"	36"	58 1/2"	5"	3:1	11 9/16"	5'-0"	3'-0"	7'-0"	8'-0"	0.145	
54"	40"	65"	5 1/2"	3:1	12 1/8"	5'-0"	3'-0"	7'-6"	8'-0"	0.156	
60"	45"	73"	6"	3:1	12 5/8"	5'-0"	3'-0"	8'-0"	8'-0"	0.167	
72"	54"	88"	7"	3:1	14 1/4"	6'-6"	1'-10"	10'-0"	8'-4"	0.207	



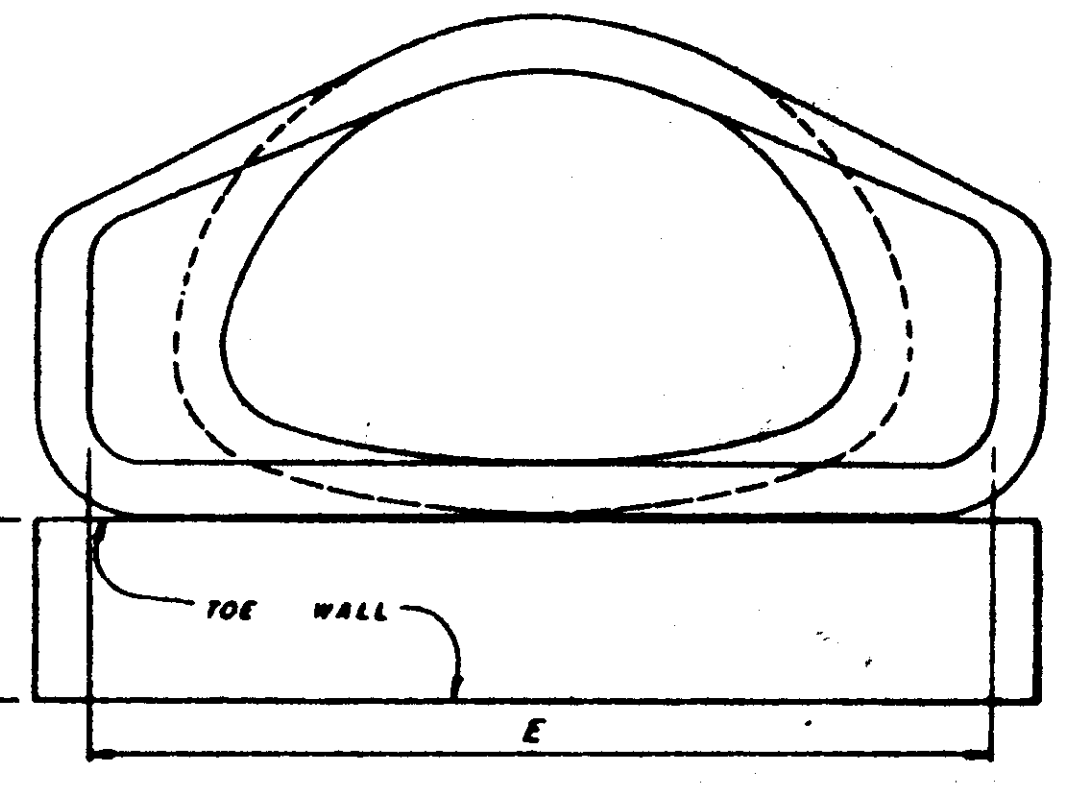
PLAN
(DRAWN FOR DOWNSTREAM SECTION)

FLARED END SECTION FOR CONCRETE ARCH PIPE - SHORT FLARE											TOE WALL QUANTITY (CL B' C' E' L')
EDG. SIZE	RISE	SPAN	WALL	SLOPE	A	B	C	E	L	TOE WALL QUANTITY (CL B' C' E' L')	
18"	13 1/2"	22"	2 1/2"	3:1	7'	2'-3"	3'-9"	3'-0"	6'-0"	0.063	
24"	18"	28 1/2"	3"	3:1	8'	3'-3"	2'-9"	4'-0"	6'-0"	0.083	
30"	22 1/2"	36 1/2"	3 1/2"	3:1	10'	4'-0"	2'-0"	5'-0"	6'-0"	0.102	
36"	26 3/8"	43 3/8"	4"	3:1	10 3/8"	5'-0"	3'-0"	6'-0"	8'-0"	0.123	
42"	31 1/8"	51 1/8"	4 1/2"	3:1	11 3/8"	5'-0"	3'-0"	6'-6"	8'-0"	0.134	
48"	36"	58 1/2"	5"	3:1	11 9/16"	5'-0"	3'-0"	7'-0"	8'-0"	0.145	
54"	40"	65"	5 1/2"	3:1	12 1/8"	5'-0"	3'-0"	7'-6"	8'-0"	0.156	
60"	45"	73"	6"	3:1	12 5/8"	5'-0"	3'-0"	8'-0"	8'-0"	0.167	

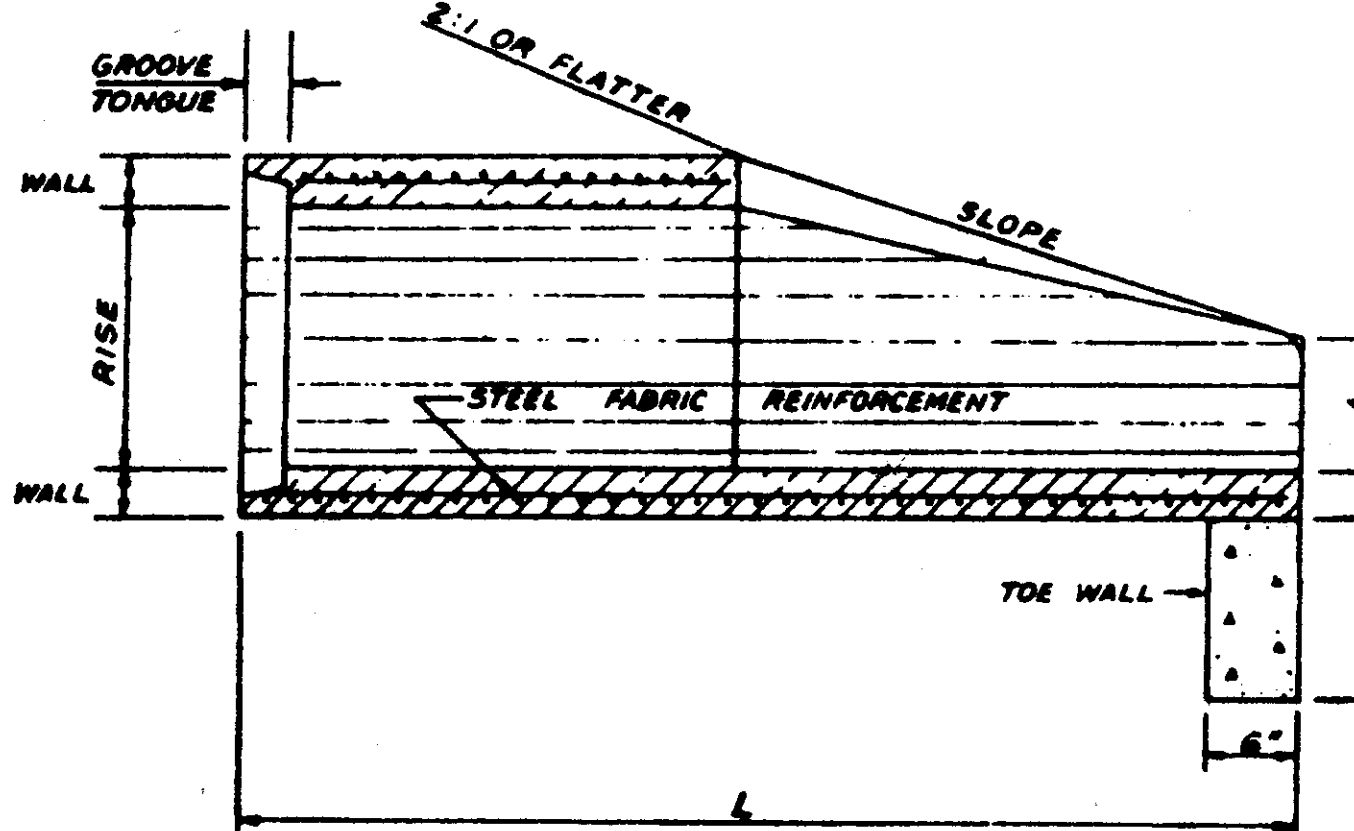
NOTE: ① EQUIVALENT 18" FLARED END SECTION SIMILAR TO TYPE I.
DIMENSIONS A, B, C, E AND L, MAY VARY ± 1 INCH.
FLARED END SECTIONS MUST MEET THE REQUIREMENTS FOR ARCH PIPE OF EITHER AASHTO DESIGNATION: M-206, OR ASTM DESIGNATION: C-506.



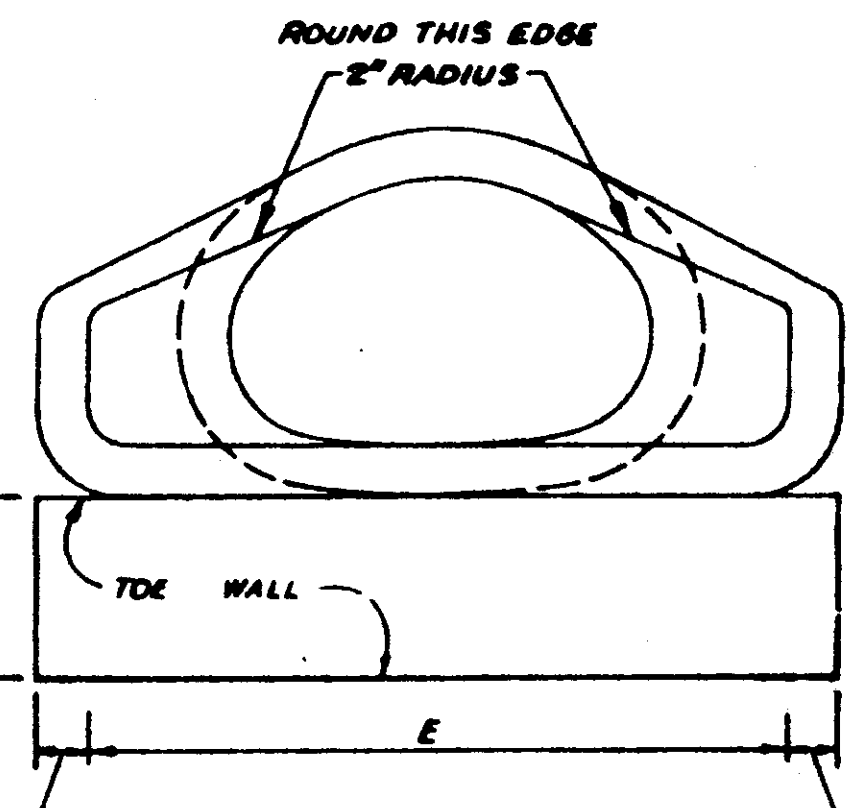
SECTION X-X



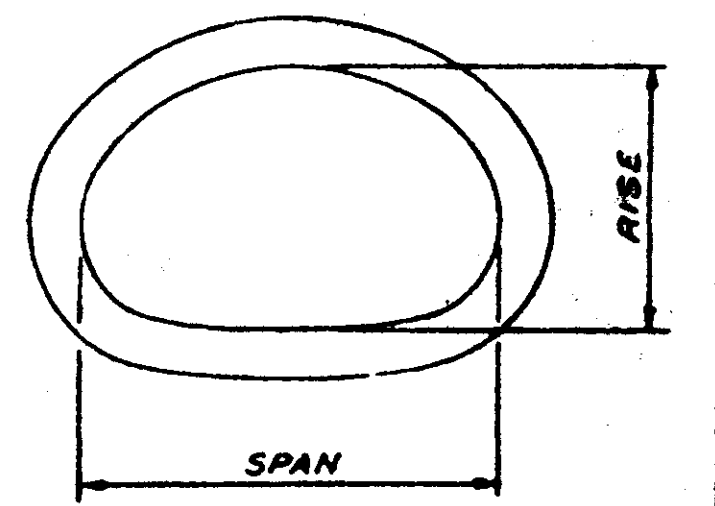
FRONT ELEVATION



SECTION A-A



FRONT ELEVATION



SECTION B-B

NOTE: REINFORCEMENT (SINGLE LINE) FOR FLARED END SECTION SHALL CONFORM TO REQUIREMENTS OF AASHTO DESIGNATION: M-206 FOR CLASS II ARCH PIPE.

TOE WALL REQD ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALL AT UPSTREAM END WILL BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER TO BE PAID FOR AS CLASS II STRUCTURAL CONCRETE - MINOR STRUCTURES.

FLARED END SECTIONS MUST MEET THE REQUIREMENTS FOR ARCH PIPE OF EITHER AASHTO DESIGNATION: M-206 OR ASTM DESIGNATION: C-506.

GENERAL NOTE: FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.

NOTE: REINFORCEMENT (SINGLE LINE) FOR FLARED END SECTION SHALL CONFORM TO REQUIREMENTS OF AASHTO DESIGNATION: M-206 FOR CLASS II ARCH PIPE.

TOE WALL REQD ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALL AT UPSTREAM END WILL BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER TO BE PAID FOR AS CLASS II STRUCTURAL CONCRETE - MINOR STRUCTURES.

GENERAL NOTE: UNLESS OTHERWISE DESIGNATED, EITHER TYPE I OR TYPE II MAY BE USED, PROVIDED THE SELECTED TYPE IS COMPATIBLE WITH THE CONFIGURATION OF THE PIPE TO WHICH IT IS TO BE ATTACHED.

DESIGNED		DETAILED		TRACED	
CHECKED		HEBBER, D. B. J.		DATE: 11-1-79	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION					
FLARED END SECTION FOR CONCRETE ARCH PIPE					
WORKING NUMBER					FE-1A
SHEET NUMBER					244.1

DIMENSIONS		REINFORCING STEEL FOR ONE HEADWALL																												QUANTITIES FOR ONE HEADWALL		EQUAL PIPE SIZE																
EQUAL PIPE SIZE	G X Y	BAR A	BAR B	BAR C	BAR D	BAR J1	BAR J2	BAR J3	BAR J4	BAR J5	BAR J6	BAR J7	BAR J8	BAR J9	BAR J10	BAR J11	BAR J12	BAR J13	BAR J14	BAR J15	BAR U	BAR W1	BAR W2	BAR W3	BAR W4	BAR W5	BAR W6	BAR W7	BAR W8	BAR W9	BAR Y1		BAR Y2	BAR Y3	BAR Y4	BAR Y5	BAR Y6											
18"	3'-9 1/2" x 6'-3 1/2" x 2'-11 1/2"	4	7-2"	5	6-1"	2	2-6"	2	2-3"	1	3-4"	1	4-7"	1	5-4"	1	6-0"	1	6-9"	1	7-5"	1	8-2"	4	4-5"	4	2-2"	4	1-9"	2	3-3"	2	5-2"							0.90	10.4	18"						
24"	4'-5 1/2" x 8'-1 1/2" x 3'-6 1/2"	4	8-4"	5	8-4"	2	3-1"	2	2-6"	1	4-6"	1	5-3"	1	6-0"	1	6-9"	1	7-5"	1	8-2"	4	4-5"	4	2-2"	4	1-9"	2	3-3"	2	5-2"							1.40	14.6	24"								
30"	5'-1 1/2" x 9'-3 1/2" x 4'-2 1/2"	4	9-4"	6	8-6"	2	3-5"	2	2-9"	1	5-2"	1	5-11"	1	6-8"	1	7-4"	1	8-1"	1	8-10"	1	9-7"	4	4-5"	4	3-8"	4	2-2"	2	3-11"	2	7-5"	2	7-8"				1.73	18.2	30"							
36"	5'-10 1/2" x 10'-0 1/2" x 5'-0 1/2"	4	10-6"	7	9-7"	2	3-10"	2	3-0"	1	5-11"	1	6-8"	1	7-5"	1	8-2"	1	8-10"	1	9-7"	1	10-4"	1	11-0"	4	4-5"	4	3-7"	4	2-9"	2	7-5"	2	8-9"				2.22	22.3	36"							
42"	6'-6 1/2" x 12'-4 1/2" x 5'-8 1/2"	4	11-8"	8	10-9"	2	4-4"	2	3-5"	1	6-7"	1	7-4"	1	8-1"	1	8-9"	1	9-6"	1	10-3"	1	11-0"	1	11-8"	4	4-5"	4	3-9"	4	3-7"	2	7-5"	2	10-1"				2.79	27.1	42"							
48"	7'-3 1/2" x 14-0 1/2" x 6-4 1/2"	4	12-11"	9	12-11"	2	5-0"	2	3-10"	1	7-4"	1	8-1"	1	8-10"	1	9-6"	1	10-3"	1	11-0"	1	11-8"	1	12-5"	1	13-2"	1	13-11"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	11-5"			3.49	33.1	48"				
54"	7'-11" x 15'-5 1/2" x 7-0 1/2"	4	13-0"	10	13-0"	2	5-3"	2	3-11"	1	7-11"	1	8-1"	1	8-10"	1	9-6"	1	10-3"	1	11-0"	1	11-8"	1	12-5"	1	13-2"	1	13-11"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	12-7"			4.16	40.1	54"				
60"	8'-7 1/2" x 17-1 1/2" x 7-9 1/2"	4	13-11"	10	14-6"	2	5-9"	2	3-11"	1	7-11"	1	8-1"	1	8-10"	1	9-6"	1	10-3"	1	11-0"	1	11-8"	1	12-5"	1	13-2"	1	13-11"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	14-0"			5.03	48.6	60"				
72"	10'-0 1/2" x 20'-2 1/2" x 9'-1 1/2"	4	17-6"	11	16-10"	2	6-8"	2	5-3"	1	10-1"	1	10-10"	1	11-7"	1	12-3"	1	13-0"	1	13-9"	1	14-6"	1	15-2"	1	15-11"	1	16-8"	1	17-5"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	15-11"	2	16-6"	2	16-6"	6.80	63.7	72"

DIMENSIONS		REINFORCING STEEL FOR ONE HEADWALL																												QUANTITIES FOR ONE HEADWALL		EQUAL PIPE SIZE																		
EQUAL PIPE SIZE	G X Y Z	BAR A	BAR B	BAR C	BAR D	BAR J1	BAR J2	BAR J3	BAR J4	BAR J5	BAR J6	BAR J7	BAR J8	BAR J9	BAR J10	BAR J11	BAR J12	BAR J13	BAR J14	BAR J15	BAR U	BAR W1	BAR W2	BAR W3	BAR W4	BAR W5	BAR W6	BAR W7	BAR W8	BAR W9	BAR Y1		BAR Y2	BAR Y3	BAR Y4	BAR Y5	BAR Y6													
18"	7'-1" x 9'-6 1/2" x 6'-2 1/2" x 1'-0"	4	10-5"	8	6-1"	3	2-6"	4	2-3"	1	7-1"	1	7-10"	1	8-7"	1	9-3"	1	10-0"	1	10-9"	4	4-5"	4	2-9"	4	1-9"	2	3-3"	2	5-2"							1.26	14.2	18"										
24"	8'-4 1/2" x 12-0 1/2" x 7-4 1/2" x 1'-0"	4	12-3"	9	7-4"	3	3-1"	4	2-6"	1	8-5"	1	8-4"	1	9-1"	1	9-11"	1	10-7"	1	11-4"	1	12-1"	4	4-5"	4	3-9"	4	2-4"	2	3-3"	2	6-11"						2.02	19.3	24"									
30"	9'-8 1/2" x 15-0 1/2" x 8-9 1/2" x 1'-0"	4	13-11"	11	8-6"	3	3-5"	4	2-9"	1	9-9"	1	10-6"	1	11-3"	1	11-11"	1	12-8"	1	13-5"	1	14-2"	4	4-5"	4	4-5"	4	2-4"	2	3-3"	2	7-5"	2	7-8"				2.51	25.1	30"									
36"	11'-5 1/2" x 18-0 1/2" x 10-7 1/2" x 1'-3"	4	16-2"	13	9-7"	4	3-10"	4	3-0"	1	11-6"	1	12-3"	1	13-0"	1	13-8"	1	14-5"	1	15-2"	1	15-11"	1	16-7"	4	4-5"	4	5-1"	4	3-7"	2	7-5"	2	8-9"				3.28	31.6	36"									
42"	12-9 1/2" x 21-0 1/2" x 12-1 1/2" x 1'-3"	4	18-0"	14	10-7"	4	4-4"	4	3-5"	1	12-6"	1	13-3"	1	14-0"	1	14-8"	1	15-5"	1	16-2"	1	16-11"	1	17-7"	4	4-5"	4	5-2"	4	4-4"	4	3-7"	2	7-5"	2	10-1"			4.10	37.9	42"								
48"	14-6 1/2" x 24-0 1/2" x 13-7 1/2" x 1'-3"	4	20-2"	16	12-1"	4	4-10"	4	3-10"	1	14-6"	1	15-3"	1	16-0"	1	16-8"	1	17-5"	1	18-2"	1	18-11"	1	19-7"	4	4-5"	4	5-1"	4	4-4"	4	3-7"	2	7-5"	2	11-5"			5.17	47.6	48"								
54"	16-0 1/2" x 27-0 1/2" x 15-2 1/2" x 1'-3"	4	22-2"	17	13-2"	4	4-5"	4	4-9"	1	16-1"	1	16-10"	1	17-7"	1	18-3"	1	19-0"	1	19-9"	1	20-6"	1	21-2"	1	21-11"	1	22-8"	1	23-5"	1	24-2"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	12-7"			6.22	57.0	54"		
60"	17-9 1/2" x 30-0 1/2" x 16-10 1/2" x 2'-0"	4	24-4"	18	14-6"	4	5-9"	4	4-8"	1	17-9"	1	18-6"	1	19-3"	1	19-11"	1	20-8"	1	21-5"	1	22-2"	1	22-11"	1	23-7"	1	24-4"	1	25-1"	1	25-9"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	14-0"			7.55	68.9	60"		
72"	20-9 1/2" x 34-1 1/2" x 19-10 1/2" x 2'-3"	4	28-3"	22	16-10"	5	6-8"	4	5-3"	1	20-9"	1	21-6"	1	22-3"	1	22-11"	1	23-8"	1	24-5"	1	25-2"	1	25-11"	1	26-7"	1	27-4"	1	28-1"	1	28-9"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	15-11"	2	16-6"	2	16-6"	10.20	91.6	72"

DIMENSIONS		REINFORCING STEEL FOR ONE HEADWALL																												QUANTITIES FOR ONE HEADWALL		EQUAL PIPE SIZE																		
EQUAL PIPE SIZE	G X Y Z	BAR A	BAR B	BAR C	BAR D	BAR J1	BAR J2	BAR J3	BAR J4	BAR J5	BAR J6	BAR J7	BAR J8	BAR J9	BAR J10	BAR J11	BAR J12	BAR J13	BAR J14	BAR J15	BAR U	BAR W1	BAR W2	BAR W3	BAR W4	BAR W5	BAR W6	BAR W7	BAR W8	BAR W9	BAR Y1		BAR Y2	BAR Y3	BAR Y4	BAR Y5	BAR Y6													
18"	10'-4 1/2" x 12-9 1/2" x 9-5 1/2" x 1'-0"	4	13-9"	12	6-1"	4	2-6"	4	2-3"	1	10-5"	1	11-2"	1	11-11"	1	12-7"	1	13-4"	1	14-1"	4	4-5"	4	2-9"	4	1-9"	2	3-3"	2	5-2"							1.63	18.1	18"										
24"	12-3 1/2" x 15-11 1/2" x 11-4 1/2" x 1'-0"	4	16-2"	13	7-10"	4	3-1"	4	2-6"	1	12-4"	1	13-1"	1	13-10"	1	14-6"	1	15-3"	1	16-0"	4	4-5"	4	3-9"	4	2-4"	2	3-3"	2	6-11"							2.64	24.6	24"										
30"	14-0 1/2" x 18-5 1/2" x 13-4 1/2" x 1'-0"	4	18-3"	15	8-6"	4	3-5"	4	2-9"	1	14-3"	1	15-0"	1	15-9"	1	16-5"	1	17-2"	1	17-11"	1	18-8"	4	4-5"	4	4-5"	4	2-4"	2	3-3"	2	7-5"	2	7-8"				3.29	31.3	30"									
36"	15-0 1/2" x 21-0 1/2" x 16-2 1/2" x 1'-3"	4	21-9"	18	9-7"	4	3-10"	4	3-0"	1	17-1"	1	17-10"	1	18-7"	1	19-3"	1	20-0"	1	20-9"	1	21-6"	1	22-2"	4	4-5"	4	5-1"	4	3-7"	2	7-5"	2	8-9"				4.34	40.2	36"									
42"	17-0 1/2" x 24-0 1/2" x 18-2 1/2" x 1'-3"	4	26-3"	20	10-7"	4	4-4"	4	3-5"	1	19-1"	1	19-10"	1	20-7"	1	21-3"	1	22-0"	1	22-9"	1	23-6"	1	24-2"	4	4-5"	4	5-2"	4	4-4"	4	3-7"	2	7-5"	2	10-1"			5.41	48.6	42"								
48"	19-0 1/2" x 27-0 1/2" x 20-9 1/2" x 1'-3"	4	27-4"	23	12-1"	4	4-10"	4	3-10"	1	21-9"	1	22-6"	1	23-3"	1	23-11"	1	24-8"	1	25-5"	1	26-2"	1	26-11"	1	27-7"	1	28-4"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	11-5"			6.85	51.1	48"						
54"	21-0 1/2" x 31-0 1/2" x 23-3 1/2" x 1'-3"	4	30-3"	25	13-2"	4	4-5"	4	4-3"	1	24-2"	1	24-11"	1	25-8"	1	26-4"	1	27-1"	1	27-10"	1	28-7"	1	29-3"	1	30-0"	1	30-9"	1	31-6"	1	32-2"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	12-7"			8.27	74.0	54"		
60"	23-0 1/2" x 35-0 1/2" x 25-11 1/2" x 2'-0"	4	33-5"	28	14-6"	4	5-9"	4	4-8"	1	26-1"	1	26-10"	1	27-7"	1	28-3"	1	29-0"	1	29-9"	1	30-6"	1	31-2"	1	31-11"	1	32-8"	1	33-5"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	14-0"			10.07	89.4	60"				
72"	31-5 1/2" x 41-8 1/2" x 30-7 1/2" x 2'-3"	4	39-0"	33	16-10"	5	6-8"	4	5-3"	1	31-6"	1	32-3"	1	33-0"	1	33-8"	1	34-5"	1	35-2"	1	35-11"	1	36-7"	1	37-4"	1	38-1"	1	38-10"	1	39-6"	4	4-5"	4	4-4"	4	3-7"	2	7-5"	2	15-11"	2	16-6"	2	16-6"	13.60	119.7	72"

DIMENSIONS		DETAIL DIMENSIONS FOR WING WALL STEEL																	
EQUAL PIPE SIZE	THICKNESS OF CURB	INSIDE SPAN	INSIDE RISE	H	R	S1	S2	W	W1	W2	W3	W4	W5	W6	W7	W8	W9		
18"	2 1/2"	13 1/2"	2'-4 1/2"	4'-6 1/2"	4'-8 1/2"	4'-10 1/2"	0'-8"	1'-1"	1'-1"	1'-0"	1'-2"	0'-11"							
24"	3"	28 1/2"	18"	2'-11 1/2"	6'-3 1/2"	6'-6 1/2"	0'-10"	1'-6"	2'-3"	1'-3"	1'-9"	1'-1"	1'-3"	0'-10"	1'-0"				
30"	3 1/2"	36 1/2"	22 1/2"	3'-3 1/2"	6'-11 1/2"	7'-3 1/2"	7'-5 1/2"	1'-0"	1'-10"	2'-7"	1'-7"	2'-1"	1'-3"	1'-7"	1'-0"	1'-2"	0'-10"		
36"	4"	43 1/2"	26 1/2"	3'-8 1/2"	8'-0 1/2"	8'-4 1/2"	8'-6 1/2"	1'-2"	2'-2"	2'-11"	1'-11"	2'-6"	1'-7"	2'-0"	1'-3"	1'-6"	1'-0"		
42"	4 1/2"	51 1/2"	31 1/2"	4'-2 1/2"	9'-2 1/2"	9'-7 1/2"	9'-9 1/2"	1'-4"	2'-6"	3'-5"	2'-2"	3'-0"	1'-10"	2'-6"	1'-7"	2'-0"	1'-3"		
48"	5"	58 1/2"	36"	4'-8"	10'-5 1/2"	11'-0 1/2"	11'-2 1/2"	1'-6"	2'-10"	3'-11"	2'-6"	3'-0"	2'-2"	3'-0"	1'-10"	2'-5"	1'-3"		
54"	5 1/2"	65"	40"	5'-1 1/2"	11'-6 1/2														

INSTRUCTIONS FOR COMPLETING THE VEGETATION SCHEDULE

STATE	PROJECT NO.
MISS.	

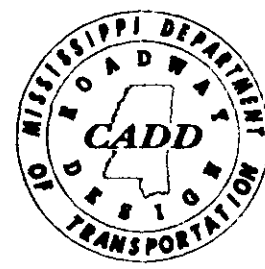
TOPSOIL - THE NEED FOR TOPSOIL IS DETERMINED FROM THE ORIGINAL SOIL PROFILE BORINGS OR FIELD INSPECTION. IF NOT NEEDED TOPSOIL WILL NOT APPEAR ON THE SCHEDULE. IF EXTREMELY ACID SOILS ARE ENCOUNTERED 8" THICK TOPSOIL IS NORMALLY REQUIRED. PROPOSAL QUANTITIES (EST.) ARE DETERMINED USING A PERCENTAGE OF THE TOTAL ACREAGE OR WITHIN CERTAIN STATION LIMITS.

AGRICULTURAL LIMESTONE - THE 3 TON/ACRE RATE LISTED BELOW IS FOR URBAN GRADE, DRAIN AND BRIDGE PROJECTS; ALL OTHER PROJECTS REQUIRE 2 TON/ACRE.

SOLID SODDING - WHEN CONSTRUCTION IS ADJACENT TO LAWNS THE PAY ITEM NO. 216-B MAY NEED TO BE SPECIFIED. TO REQUIRE THE SAME KIND OF GRASS BE FURNISHED AND PLANTED THAT IS GROWING IN THE ADJACENT LAWNS.

VEGETATION SCHEDULE

EROSION CONTROL ITEMS		SEASONAL APPLICATIONS-DATES & RATES				REQUIREMENTS
PAY ITEM NO.	ITEMS	SPRING & SUMMER		FALL & WINTER		
		RATES	DATES	RATES	DATES	
⑦ 211-B	TOPSOIL FOR SLOPE TREATMENT (LVM)	4" THICK	MARCH 1 TO SEPTEMBER 1	4" THICK	SEPTEMBER 1 TO MARCH 1	TOPSOIL REQUIRED ON SLOPES DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
212-B	STANDARD GROUND PREPARATION	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ.YD.	SEPTEMBER 1 TO MARCH 1	GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR SEEDING, AS APPLICABLE.
213-A	AGRICULTURAL LIMESTONE	3 TONS/ACRE	MARCH 1 TO SEPTEMBER 1	3 TONS/ACRE	SEPTEMBER 1 TO MARCH 1	LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
213-B	COMBINATION FERTILIZER (13-13-13)	1000 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	1000 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	FERTILIZER SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
① 213-C	SUPERPHOSPHATE	0.5 TONS/ACRE (EST.)	MARCH 1 TO DECEMBER 1			SUPERPHOSPHATE (FOR BID ITEM PURPOSES).
② 214-A	SEEDING (BERMUDAGRASS)	20 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	20 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS. UNHULLED SEED MAY BE REQUIRED DURING THE DORMANT SEASON AS DIRECTED.
③ 214-A	SEEDING (TALL FESCUE)			20 LBS./ACRE	AUGUST 1 TO APRIL 1	SEED REQUIRED ON DISTURBED AREAS.
③ 214-A	SEEDING (CRIMSON CLOVER)			20 LBS./ACRE	AUGUST 1 TO APRIL 1	SEED REQUIRED ON DISTURBED AREAS.
⑥ 215-A	VEGETATIVE MATERIAL FOR MULCH	2 TONS ACRE (EST.)	MARCH 1 TO SEPTEMBER 1	2 TONS/ACRE (EST.)	SEPTEMBER 1 TO MARCH 1	THE ENGINEER WILL DESIGNATE THE RATES OF APPLICATION (SEE SUBSECTION 215.03.3).
216-A	SOLID SODDING	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ. YD.	SEPTEMBER 1 TO MARCH 1	SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE CONTRACT OR BY THE ENGINEER.
219-A	WATERING	20 GALS./S.Y. (EST.)	MARCH 1 TO SEPTEMBER 1	20 GALS. S.Y. (EST.)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED IN THE PLANTING AND ESTABLISHING SOLID SOD.
④ 220-A	INSECT PEST CONTROL	PER ACRE		PER ACRE		SEE SECTION 220.



① ALL AREAS THAT HAVE BEEN VEGETATED, UNDER THIS CONTRACT FOR AT LEAST (60) SIXTY DAYS, SHALL RECEIVE ADDITIONAL APPLICATION(S) OF FERTILIZER(S) OF THE TYPE(S) AND RATE(S) OF APPLICATIONS AS DETERMINED BY SOIL TESTS OR AS DIRECTED DURING THE GROWING SEASONS THE CONTRACT IS IN FORCE. GROUND PREPARATION WILL NOT BE REQUIRED FOR THE ADDITIONAL APPLICATIONS. PAYMENT FOR ALL FERTILIZERS ACCEPTABLY APPLIED AS AN ADDITIONAL APPLICATION(S) WILL BE MADE IN ACCORDANCE WITH SUPERPHOSPHATE BID ITEM 213-C.

② PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 100% OF THE ACREAGE WILL BE SEEDED.

③ PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE WILL BE SEEDED.

④ QUANTITY ESTIMATED ON THE BASIS 50% OF THE ACREAGE VEGETATED MAY REQUIRE TREATMENT.

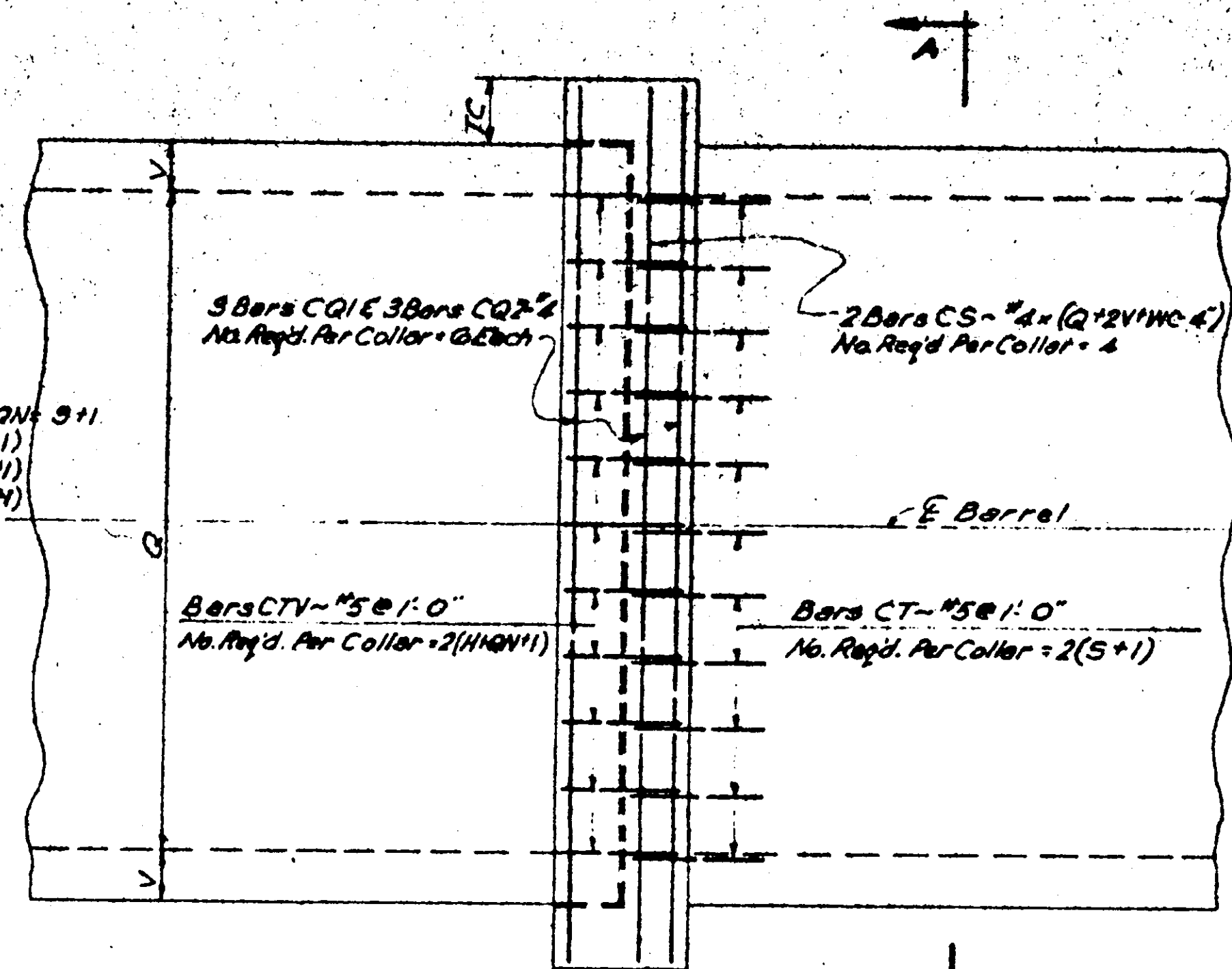
⑤ THIS ITEM TO BE OMITTED ON AREAS SELECTED BY THE ENGINEER.

⑥ BAHIA GRASS WILL NOT BE PERMITTED AS A MULCH MATERIAL.

⑦ PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 75% OF THE ACREAGE SEEDED MAY REQUIRE TOPSOIL.

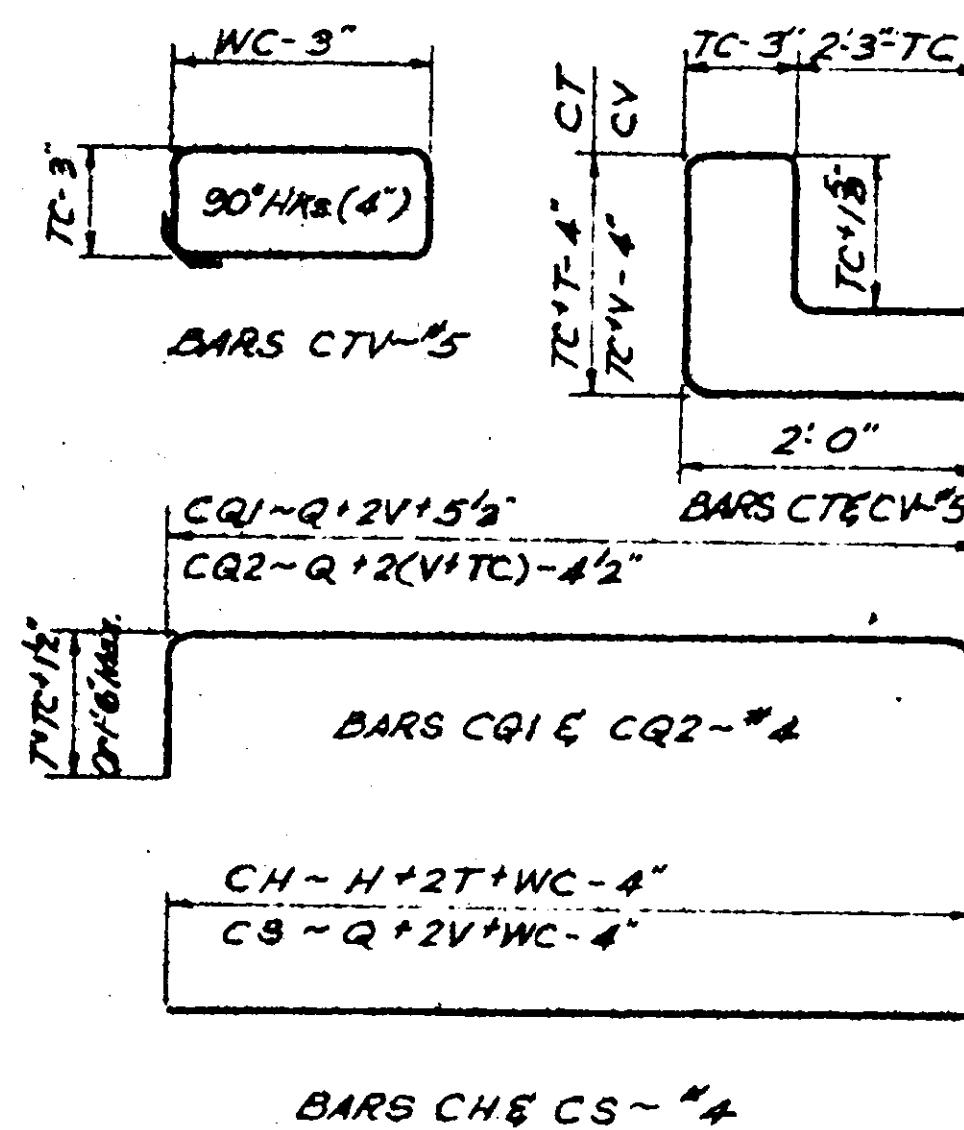
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
DISTRICT 3 OR 5	
VEGETATION SCHEDULE	
URBAN - ALL TYPES, EXCLUDING MS DELTA	
PROJECT NO.	WORKING NUMBER
COUNTY	SHEET NUMBER
FILENAME:	315
DESIGN TEAM	CHECKED
DATE	DATE

NOTE: Q For Single Cell Box = S (Clear Span), QN = 3+1
 Q For Double Cell Box = 2S + V, QN = 2(S+1)
 Q For Triple Cell Box = 3S + 2V, QN = 3(S+1)
 Q For Quadruple Cell Box = 4S + 3V, QN = 4(S+1)



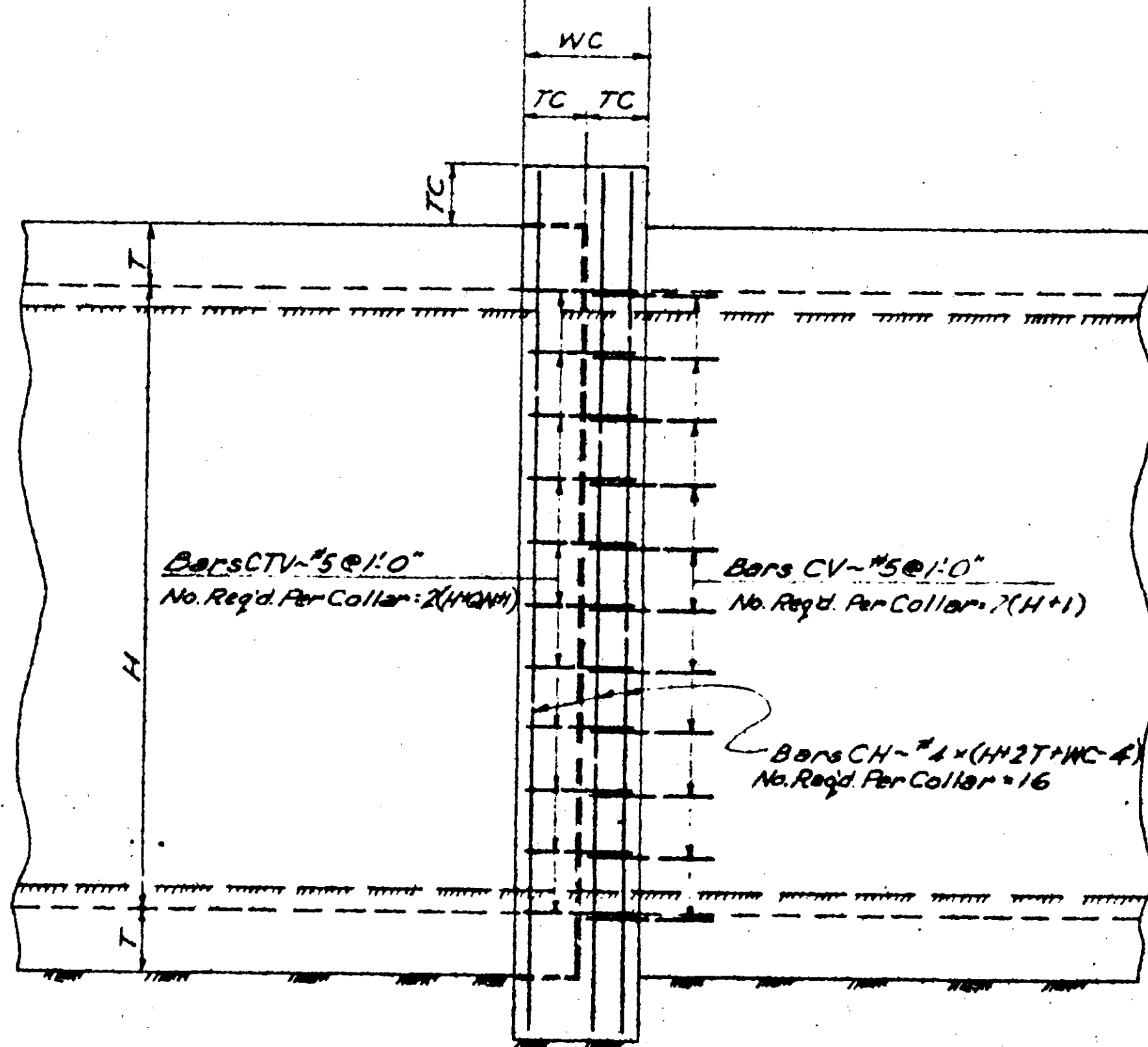
NOTE: For H = 4' thru 6' TC = 9" WC = 11/8"
 For H = 8' Above TC = 11/8" WC = 2'-0"

PLAN OF COLLAR

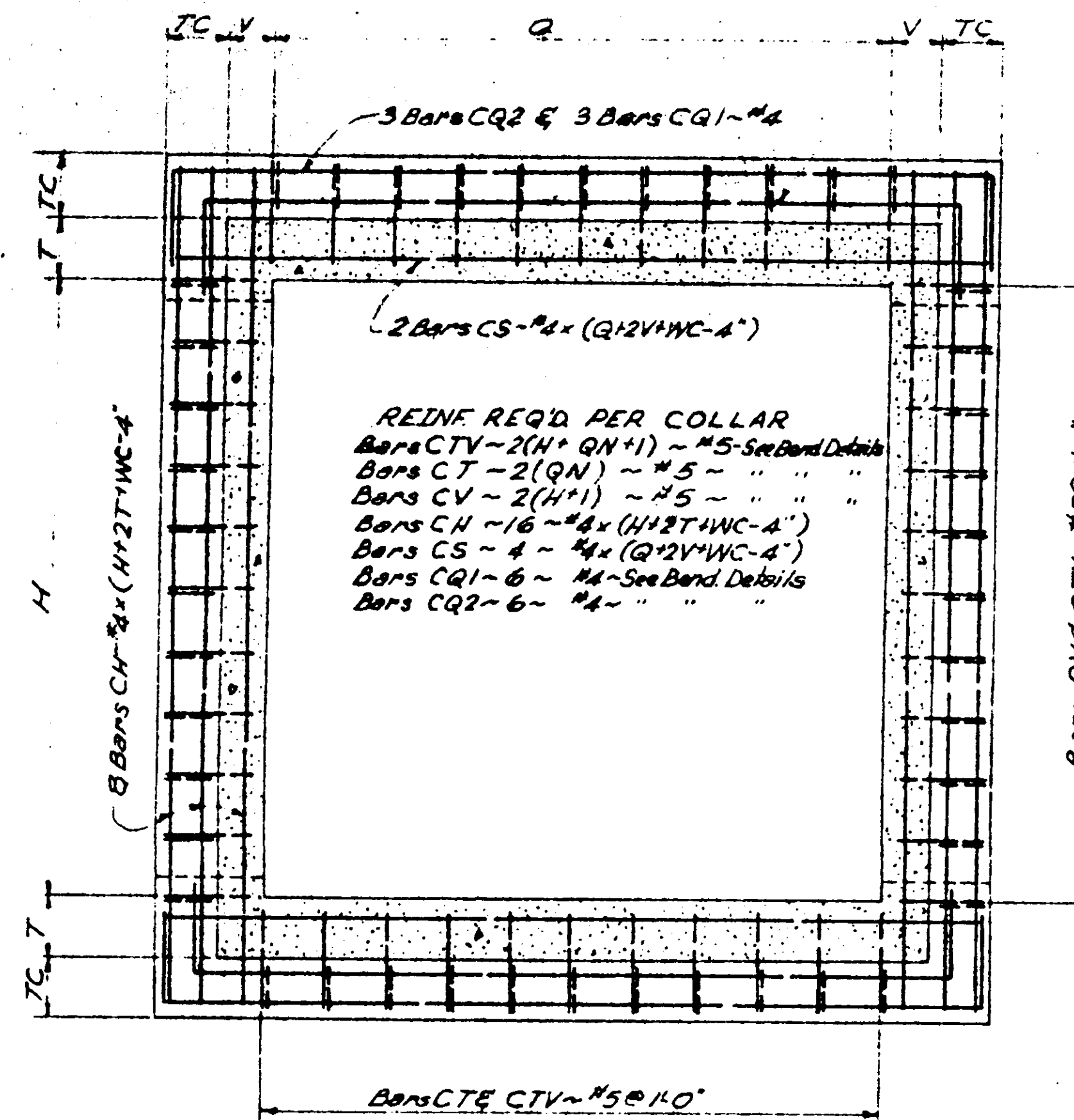


BAR BENDING DETAILS

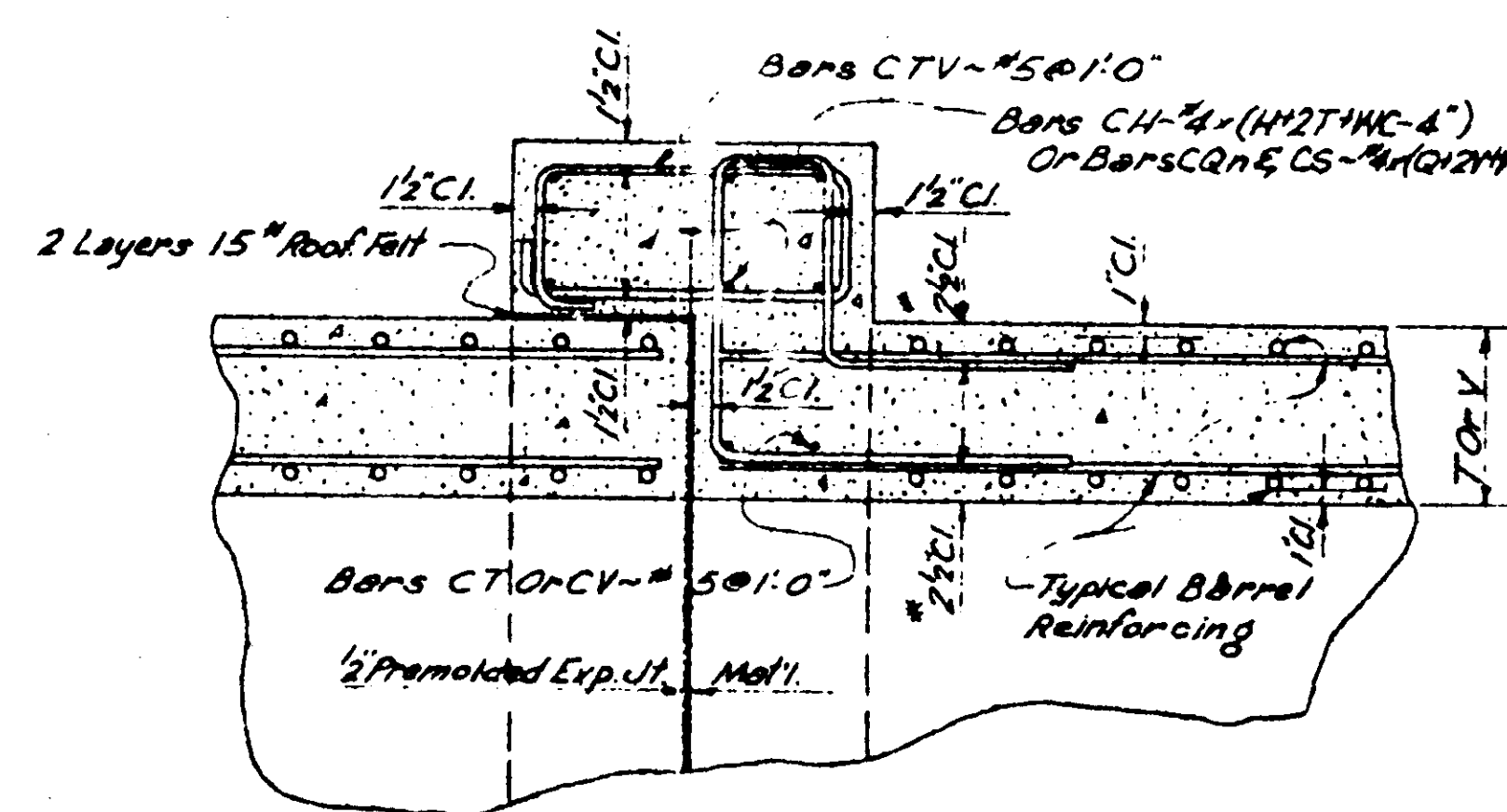
NOTE: See * At Right



ELEVATION OF COLLAR



SECTION A-A

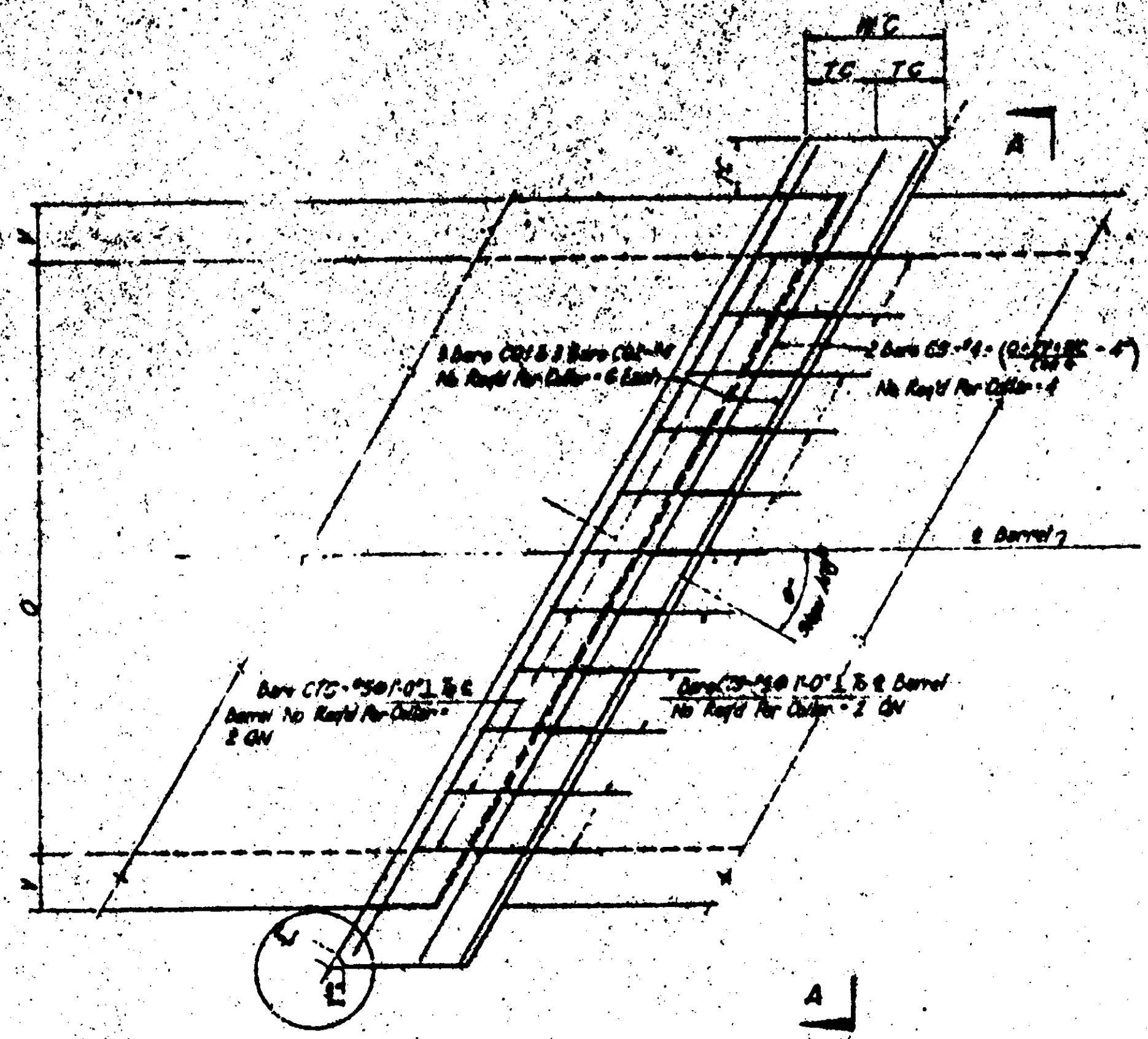


*Note: 1/2" CI Based On 1" CI. For Typ Barrel Reinfc This CI Shall Be Adjusted For CI Other Than 1"

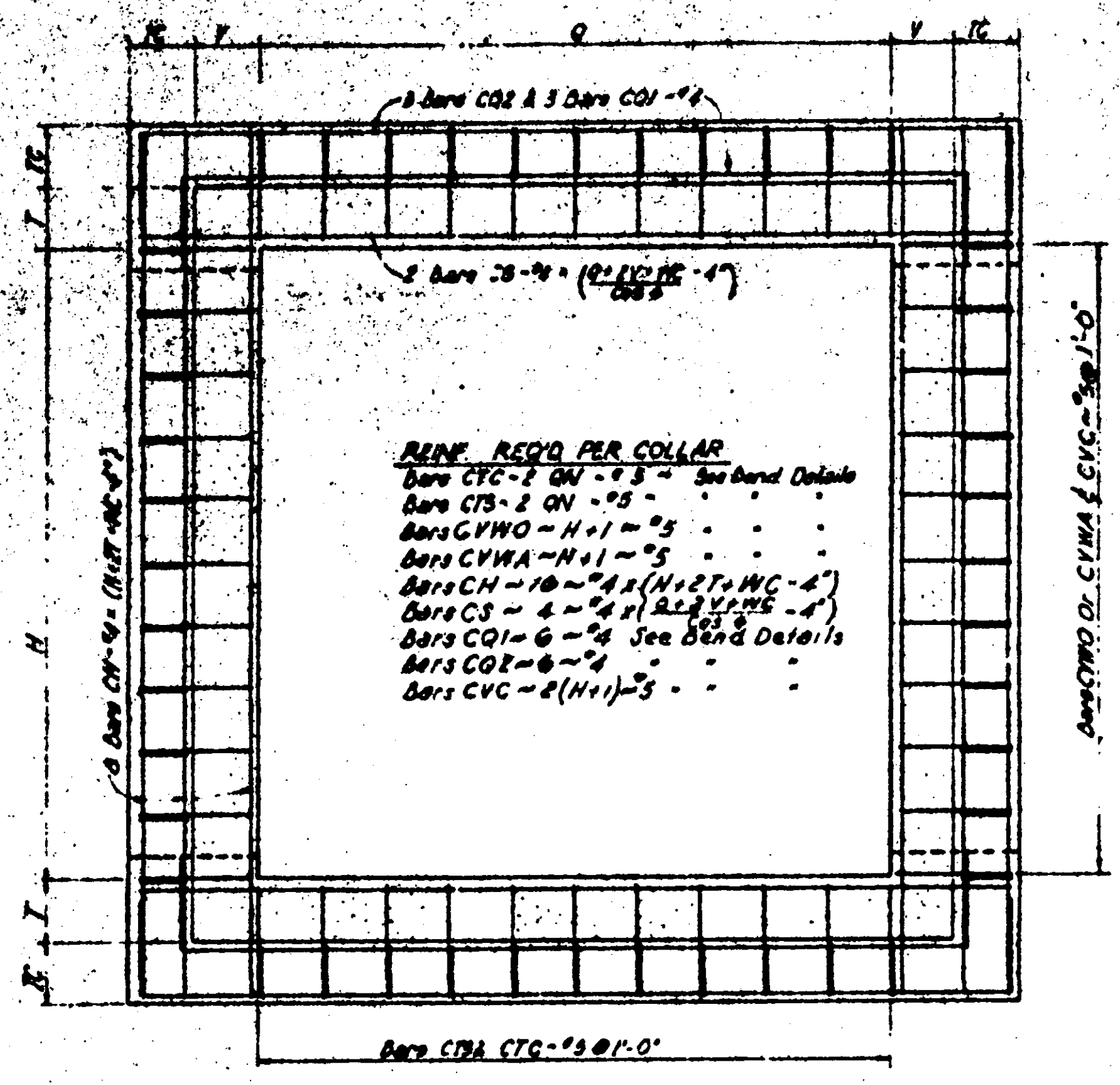
TYPICAL SECTION OF COLLAR

GENERAL NOTES:
 This Drawing Shows The Details Necessary To Construct A Complete Collar Around Barrel At Expansion Joints For Single, Double, Triple And Quadruple Cell Box Structures.
 All Details And Requirements Not Shown Hereon Shall Be As Per Specific Drawings Or Sheets As Listed In The Plan Assembly.
 This Drawing Is Detailed For A Single Cell Box Structure And Multi-Cell Box Structures Shall Be Treated Similarly As Shown.

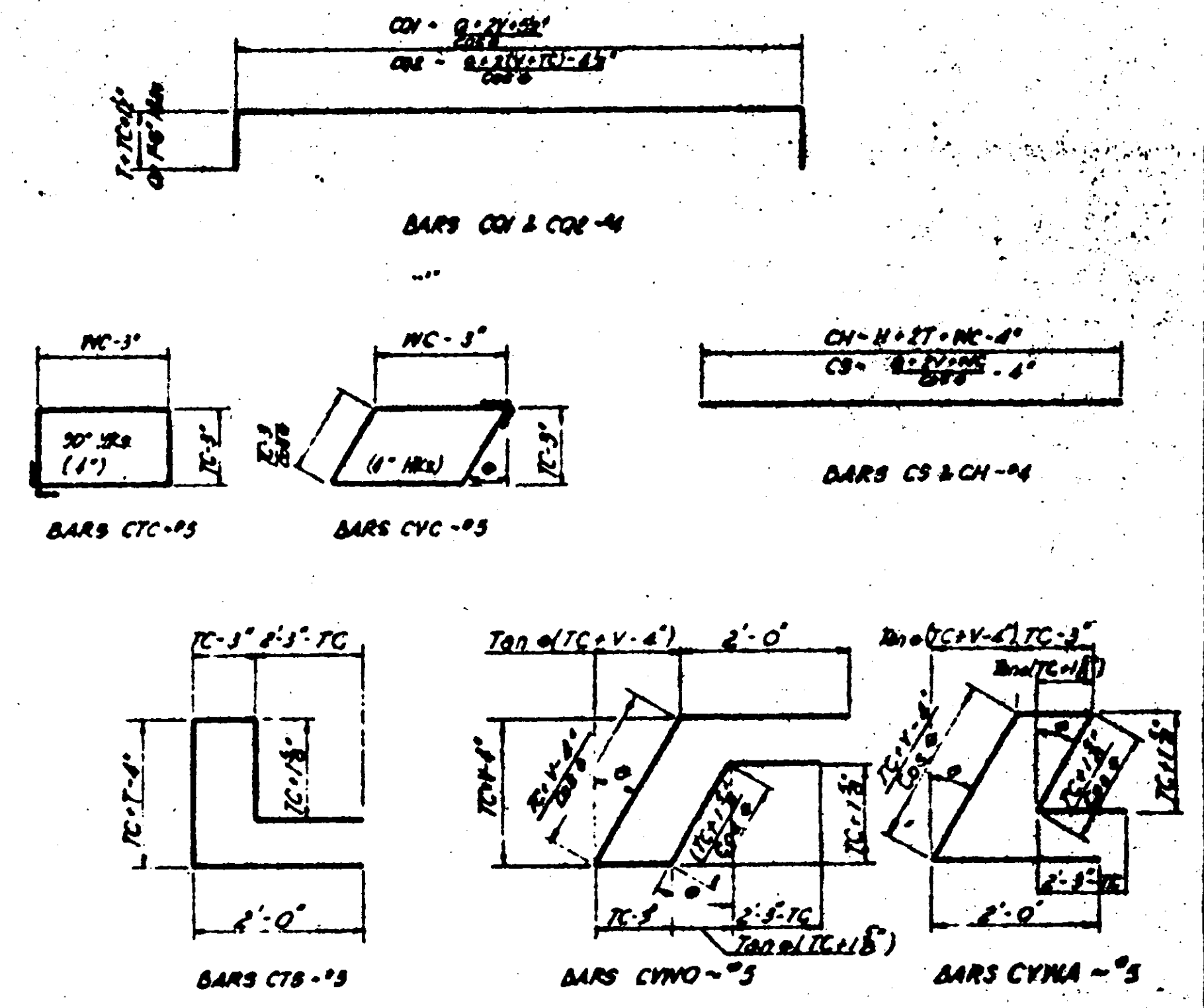
MISSISSIPPI STATE HIGHWAY DEPARTMENT			
COLLAR DETAILS			
FOR BOX STRUCTURES			
(SINGLE, DOUBLE, TRIPLE & QUADRUPLE)			
DESIGNED	DATE	CHECKED	DATE
DRAWN	DATE	TRACED	DATE
REVISIONS			WORKING NUMBER
CJ-1			SHEET NUMBER
316			316



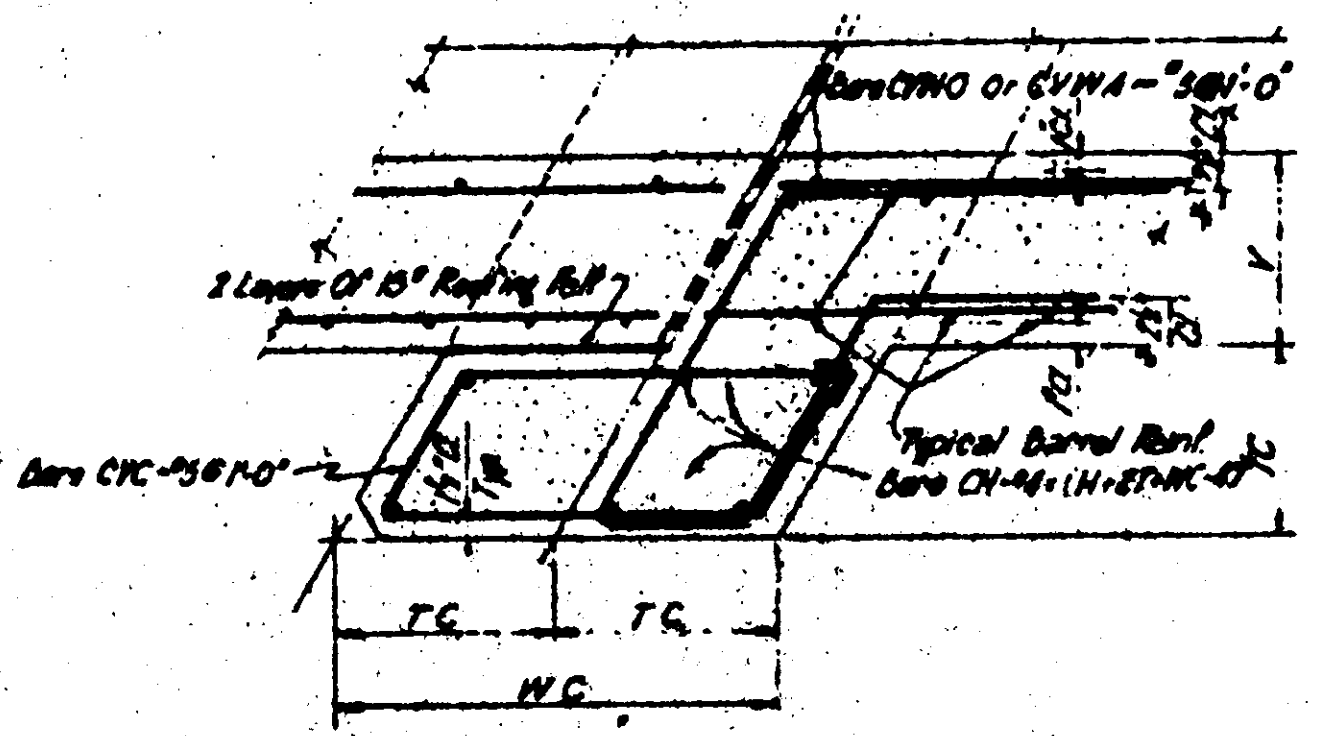
PLAN OF COLLAR



SECTION A-A

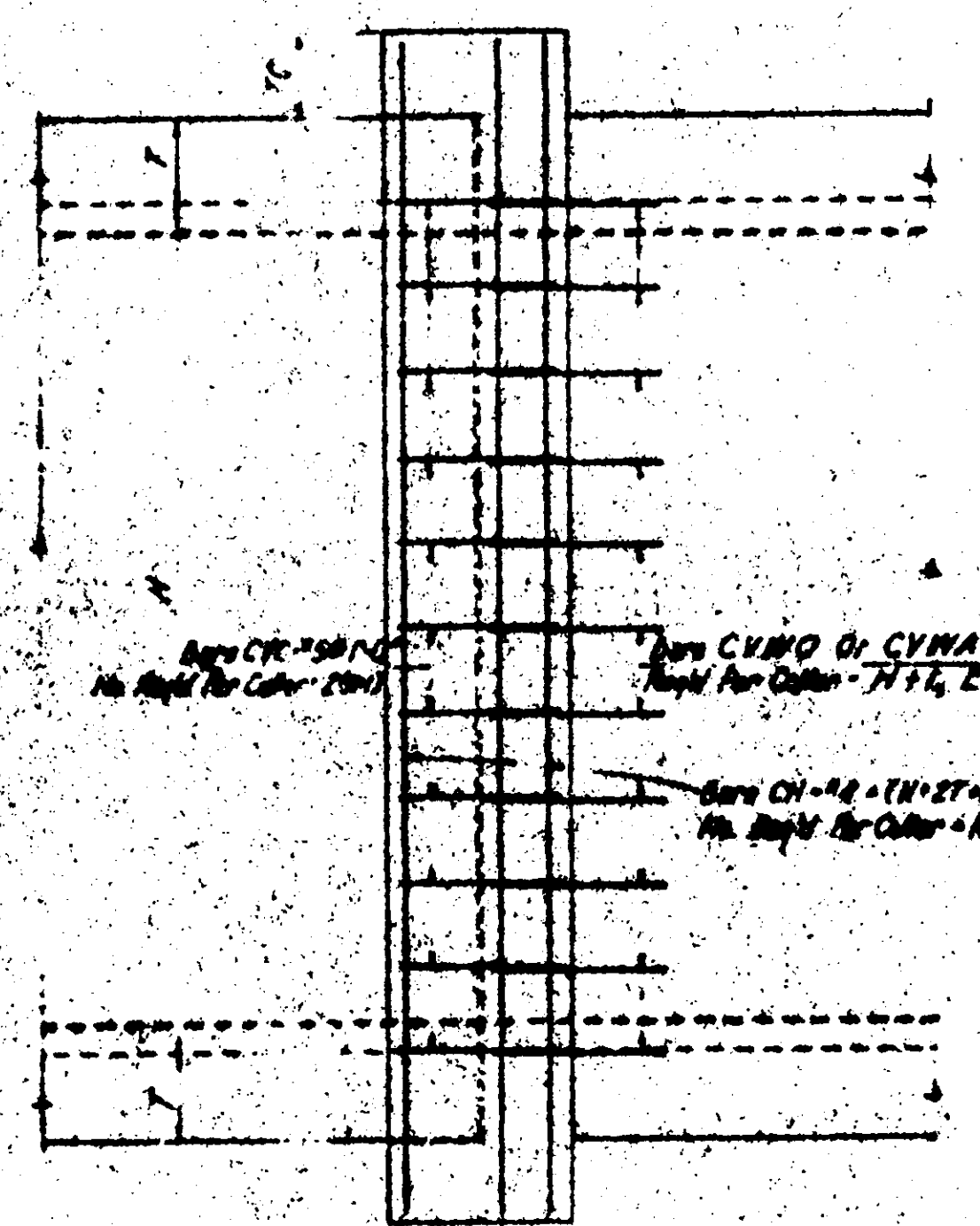


NOTE: See Below
BAR BENDING DETAILS
Dimensions Are Out To Out.

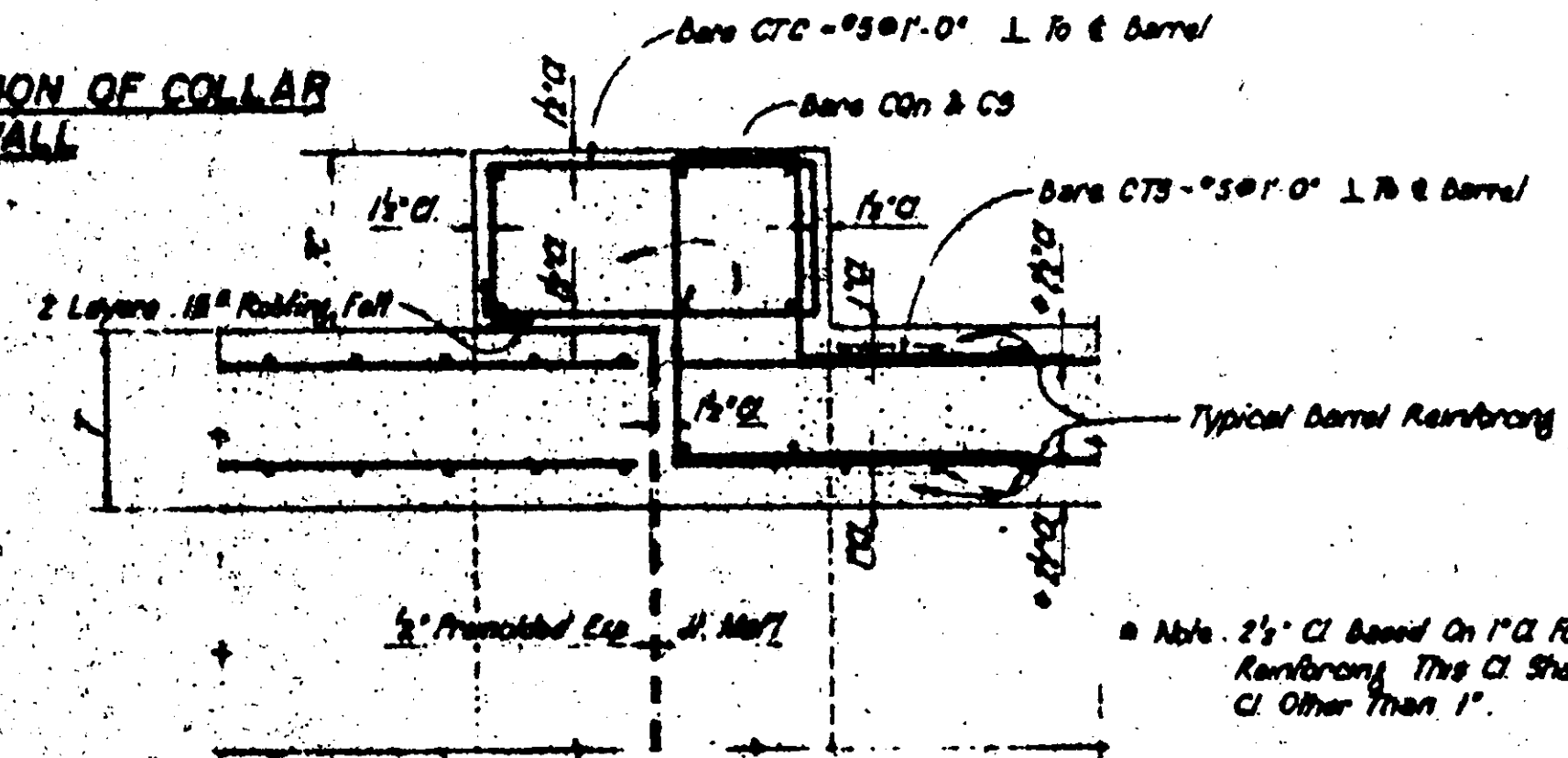


TYPICAL SECTION OF COLLAR AT WALL

Note: Q For Single Cell Box = 3 (Clear Span), QN = 5+1
 Q For Double Cell Box = 28 + V, QN = 2(5+1)
 Q For Triple Cell Box = 38 + 2V, QN = 3(5+1)
 Q For Quadruple Cell Box = 45 + 3V, QN = 4(5+1)
 * Show Angle for H = 4' thru 6' for H = 6' & Above
 TC = 1'-6" for H = 4' thru 6'
 TC = 1'-6" for H = 6' & Above
 NC = 1'-6" for H = 4' thru 6'
 NC = 2'-0" for H = 6' & Above



ELEVATION OF COLLAR



TYPICAL SECTION OF COLLAR - TOP & BOTTOM

GENERAL NOTES:
 This Drawing Shows The Details Necessary To Construct A Complete Collar Around Barrel At Skewed Expansion Joints For Single, Double, Triple And Quadruple Cell Box Structures. All Details And Requirements Not Shown Hereon Shall Be As Per Specific Drawings Or Sheets As Listed In The Plan Assembly.
 This Drawing Is Detailed For A Single Cell Box Structure, And Multi-Cell Box Structures Shall Be Treated Similarly As Shown.

MISSISSIPPI STATE HIGHWAY DEPARTMENT	
SKEWED COLLAR DETAILS	
FOR BOX STRUCTURES	
(SINGLE, DOUBLE, TRIPLE & QUADRUPLE)	
DESIGNED BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>
DATE: _____	DATE: _____
SHEET NUMBER CJS-1	SHEET NUMBER 317

CULVERT HEIGHT	L1	L2	N1	N2	P	R1	R2	U	V	Z
2'	3'-5"	3'-5"			0.350/1.035	1/2"	1/2"			
3'	5'-4"	5'-4"			0.350/1.035	1/2"	1/2"			
4'	7'-5"	7'-5"			0.350/1.035	1/2"	1/2"			
5'	9'-9"	9'-9"			0.350/1.035	1/2"	1/2"			
6'	11'-8"	11'-8"			0.350/1.035	1/2"	1/2"			
8'	14'-8"	14'-8"			0.350/1.035	1/2"	1/2"			
10'	17'-8"	17'-8"			0.350/1.035	1/2"	1/2"			
12'	20'-8"	20'-8"			0.350/1.035	1/2"	1/2"			

CULVERT HEIGHT	NO.	DIM. X	NO.	DIM. X	NO.	DIM. X
2'	3	7"	1	1.0"		None
3'	5	7"	2	3'-5" x 11"	1	3'-0"
4'	7	7"	3	5'-4" x 11"	2	4'-0" x 2'-9"
5'	9	7"	4	6'-8" x 11"	3	6'-2" x 2'-2"
6'	11	7"	5	8'-2" x 11"	4	8'-0" x 2'-0"
8'	14	7"	6	10'-8" x 11"	5	10'-6" x 2'-0"
10'	17	7"	7	13'-8" x 11"	6	13'-6" x 2'-0"
12'	20	7"	8	16'-8" x 11"	7	16'-6" x 2'-0"

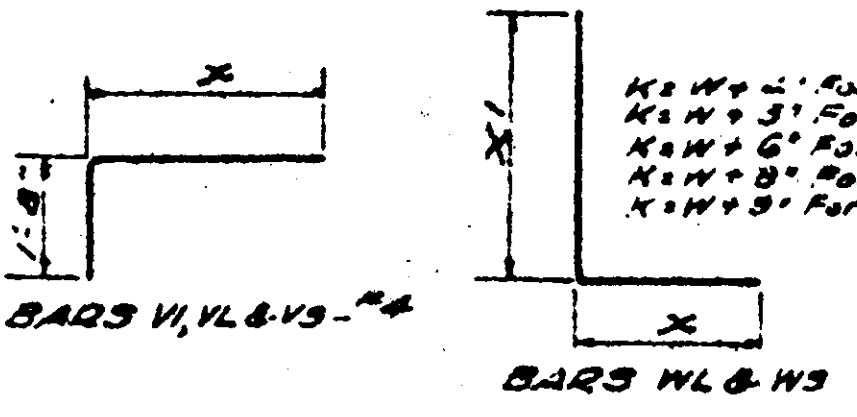
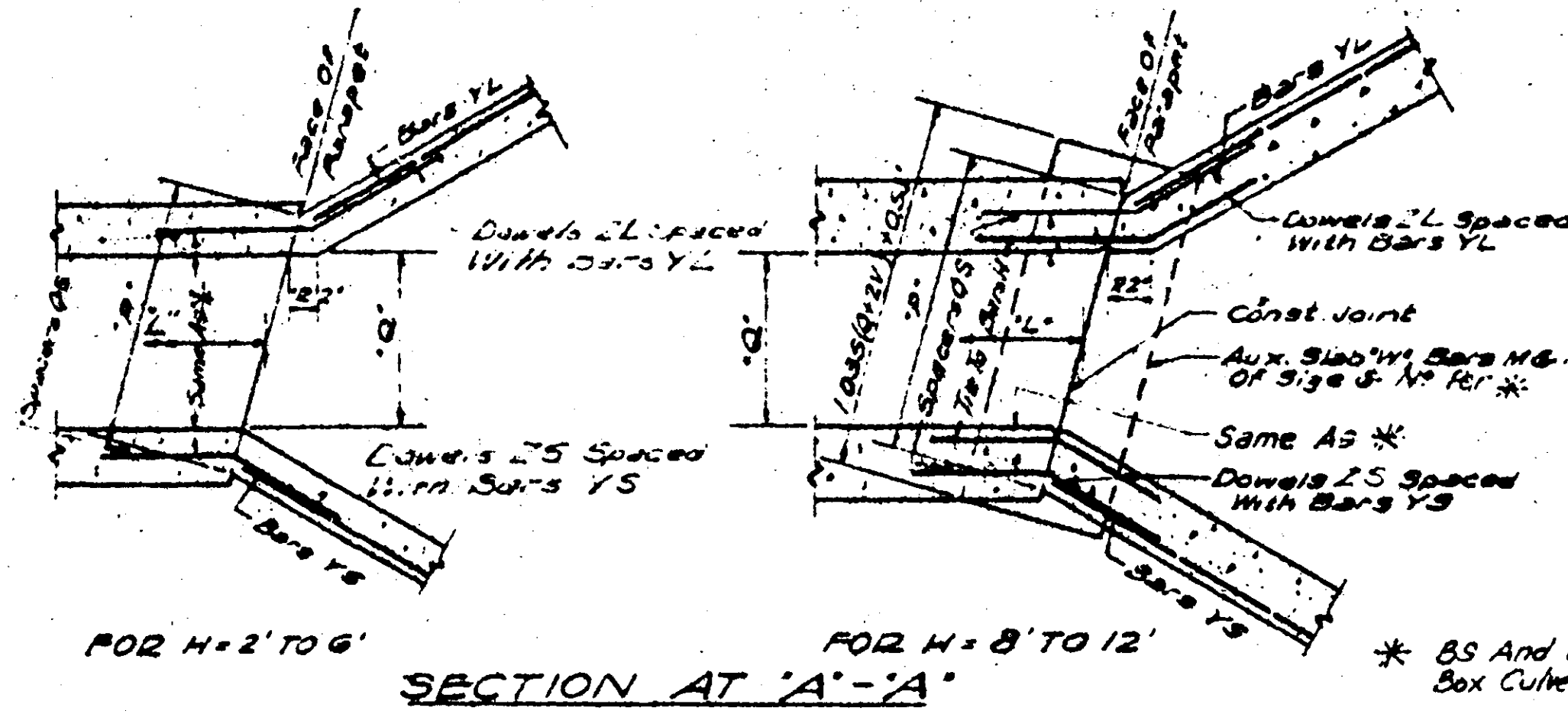
CULVERT HEIGHT	BAR NO.	LENGTH
2'	T1	P-2' to P+2'-5"
3'	T2	P+3'-11"
4'	T3	P-2' to P+4'-11"
5'	T4	P+5'-0"
6'	T5	P-2' to P+6'-0"
8'	T6	P+6'-9"
10'	T7	P-2' to P+10'-0"
12'	T8	P+10'-9"

CULVERT HEIGHT	LONG WING	SHORT WING
2'	2 @ 5'-0"	2 @ 3'-4"
3'	2 @ 7'-5"	2 @ 3'-6"
4'	2 @ 9'-0"	2 @ 7'-2"
5'	2 @ 11'-7"	2 @ 8'-7"
6'	3 @ 16'-1"	3 @ 11'-2"
8'	3 @ 19'-6"	3 @ 14'-5"
10'	3 @ 22'-4"	3 @ 16'-8"
12'	3 @ 25'-0"	3 @ 19'-0"

CULVERT HEIGHT	BAR NO.	LENGTH
2'	Y1	2 @ 7'-5" x 5'-0"
3'	Y2	1 @ 11'-0" x 5'-0"
4'	Y3	1 @ 15'-0" x 5'-0"
5'	Y4	2 @ 19'-0" x 5'-0"
6'	Y5	1 @ 23'-0" x 5'-0"
8'	Y6	1 @ 27'-0" x 5'-0"
10'	Y7	2 @ 31'-0" x 5'-0"
12'	Y8	3 @ 35'-0" x 5'-0"

CULVERT HEIGHT	BAR NO.	SIZE	SPEC.	DIM. X	DIM. Y
2'	WL1	3 #4	10'	M-3'	K
3'	WL2	3 #4	10'	M-3'	K
4'	WL3	3 #5	10'	M-3'	K
5'	WL4	2 #5	10'	M-11'	K
6'	WL5	2 #5	10'	M-11'	K
8'	WL6	2 #6	9'	M-11'	K
10'	WL7	2 #6	9'	M-11'	K
12'	WL8	3 #6	9'	M-11'	K
12'	WL9	3 #6	9'	M-11'	K
12'	WL10	2 #7	9'	M-11'	K
12'	WL11	2 #7	9'	M-11'	K
12'	WL12	2 #7	9'	M-11'	K
12'	WL13	2 #7	9'	M-11'	K
12'	WL14	3 #7	9'	M-11'	K

NOTE: 0 For Single Cell Culvert = S (Clear Span)
 0 For Double Cell Culvert = 2B+V

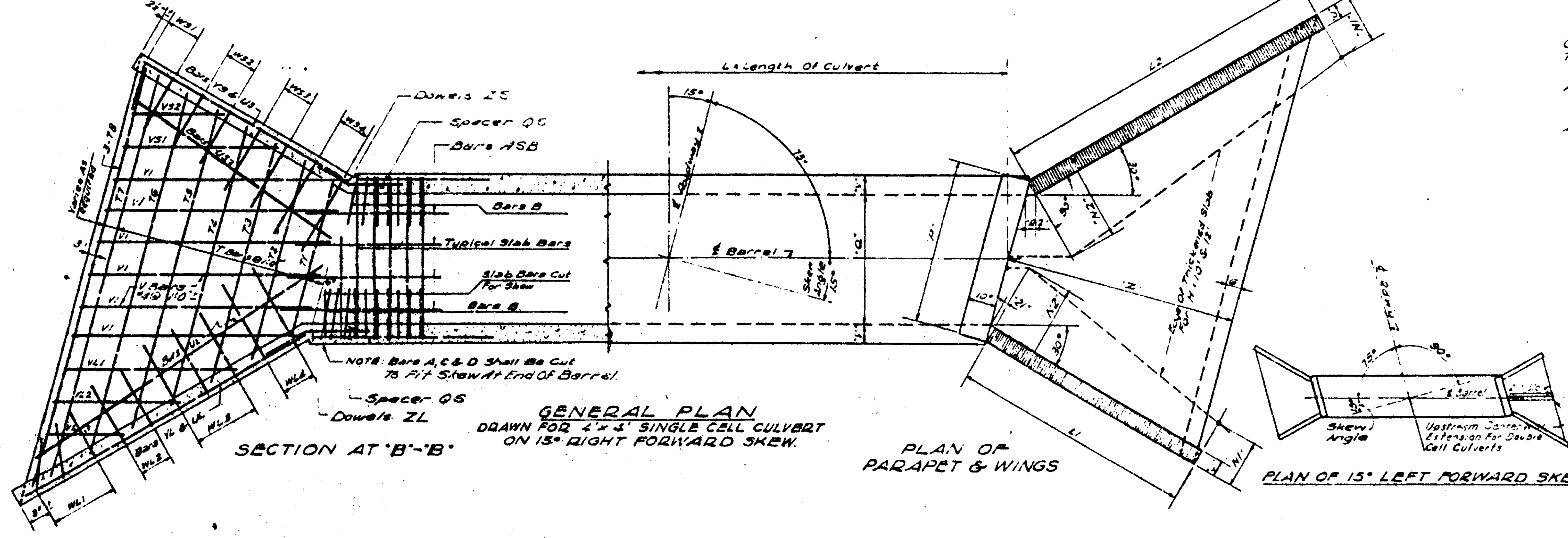
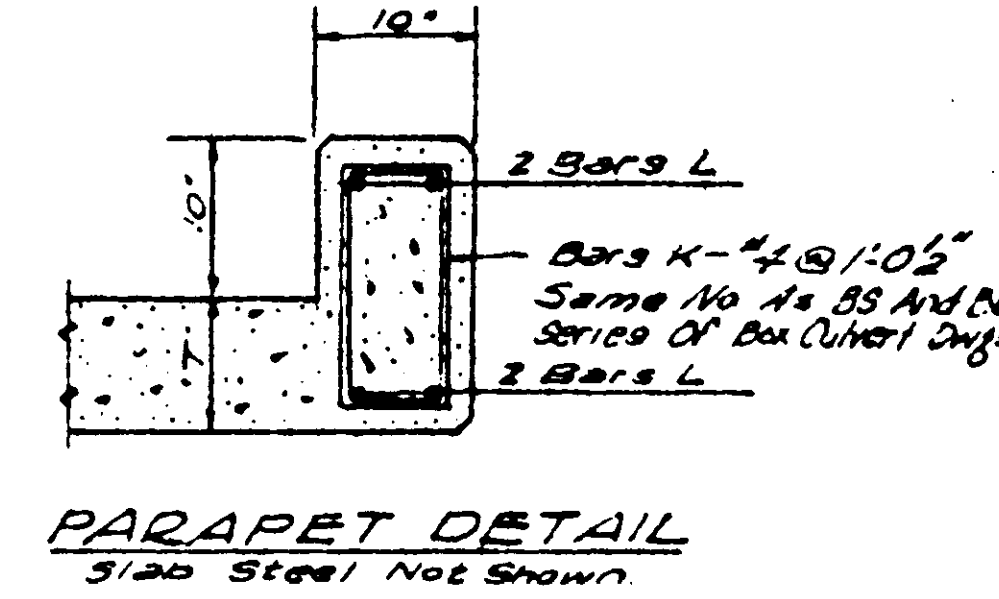
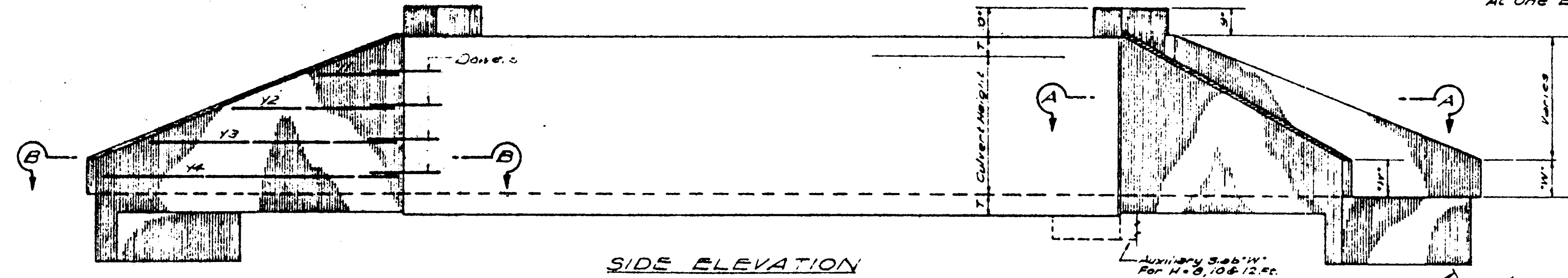


BAR BENDING DETAILS
 Dimensions are out to out.

CULVERT HEIGHT	BAR NO.	SIZE	LENGTH	NO. SIZE	LENGTH
2'	L1	4 #6	P-4'	None	
3'	L2	4 #7	P-4'	None	

NOTE: The Number of Bars Shown in the Tables is The Number Required For One Complete Headwall Assembly At One End of Culvert.

CULVERT HEIGHT	BAR NO.	SIZE	SPEC.	DIM. X	DIM. Y
2'	WS1	2 #4	10'	M-3'	K
3'	WS2	2 #4	10'	M-3'	K
4'	WS3	2 #5	10'	M-3'	K
5'	WS4	2 #5	10'	M-11'	K
6'	WS5	1 #5	10'	M-11'	K
8'	WS6	2 #5	9'	M-11'	K
10'	WS7	2 #5	9'	M-11'	K
12'	WS8	2 #6	9'	M-11'	K
12'	WS9	2 #6	9'	M-11'	K
12'	WS10	1 #7	9'	M-11'	K
12'	WS11	2 #7	9'	M-11'	K
12'	WS12	2 #7	9'	M-11'	K
12'	WS13	2 #7	9'	M-11'	K



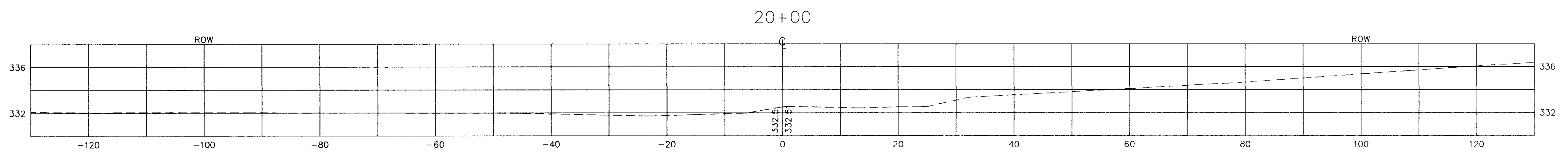
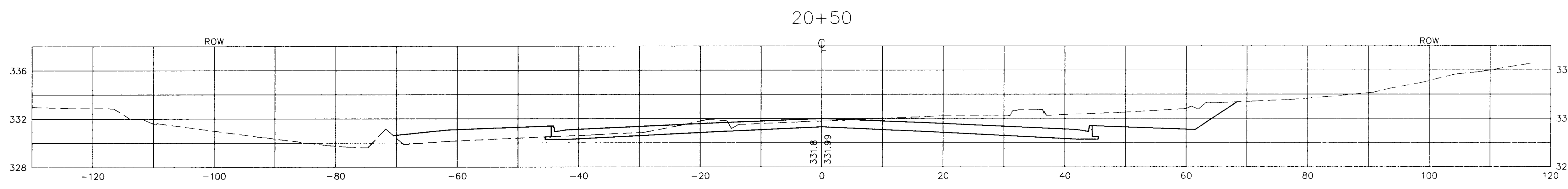
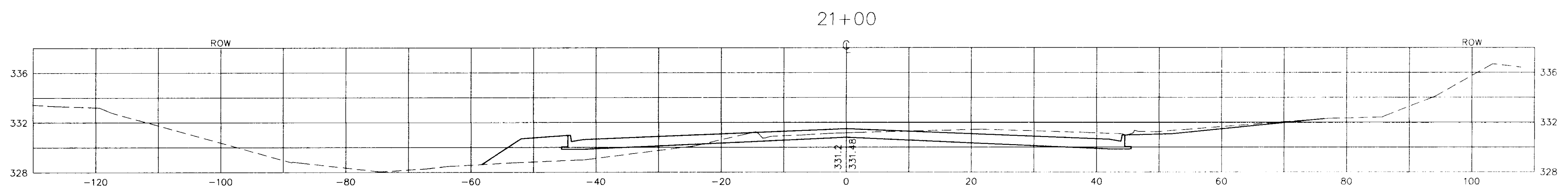
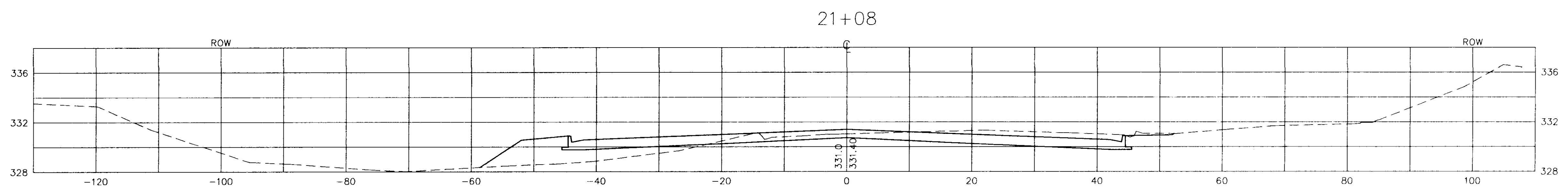
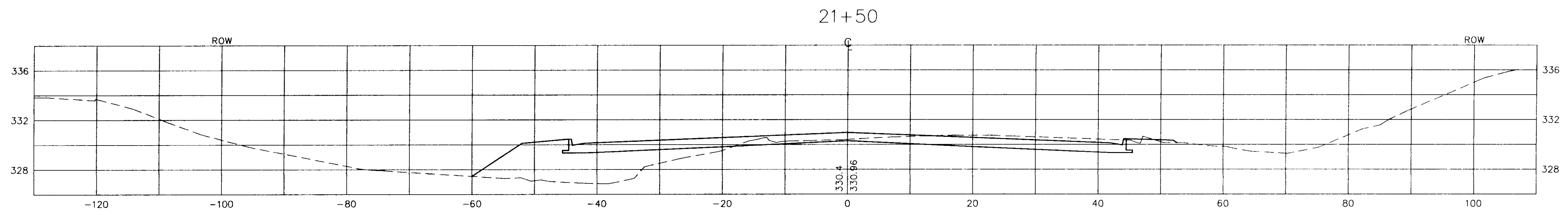
GENERAL NOTES:-
 This Drawing Shows The General Details Necessary To Modify BS And BD Series Box Culverts For A 15° Skew.
 All Governing Dimensions, Reinforcement Details And General Requirements Of The BS And BD Series Of Box Culverts Shall Apply Except As Specifically Modified By This Drawing.
 A Complete Placing Plan Showing All Governing Dimensions, Bar List and Bending Details Shall Be Submitted To The Project Engineer For Approval Prior To Fabrication Of The Reinforcing Steel.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 BOX CULVERT DRAWING
 15° SKEW DETAILS
 FOR SINGLE AND DOUBLE CELL CULVERTS

WORKING NUMBER
 SK-15

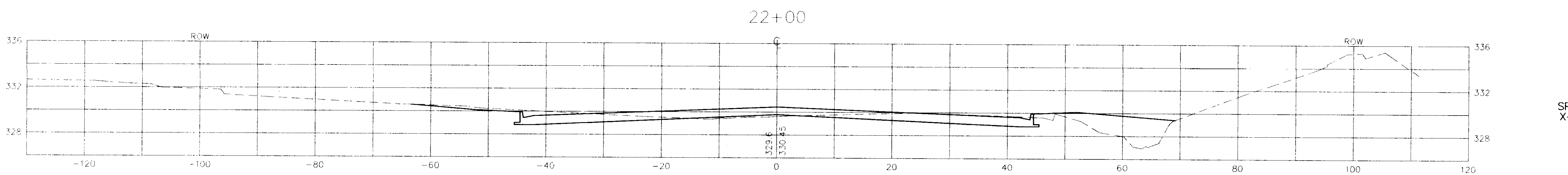
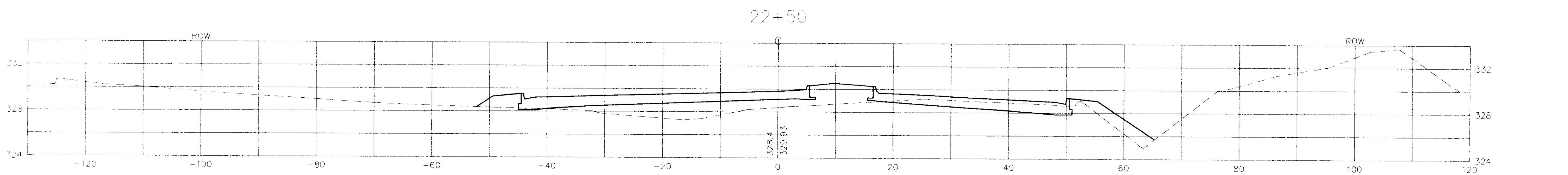
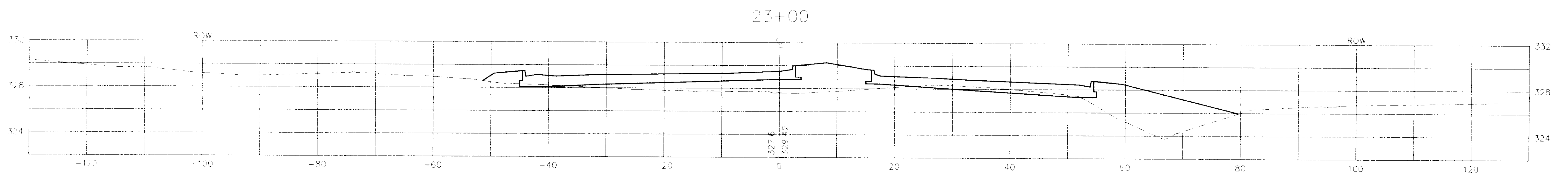
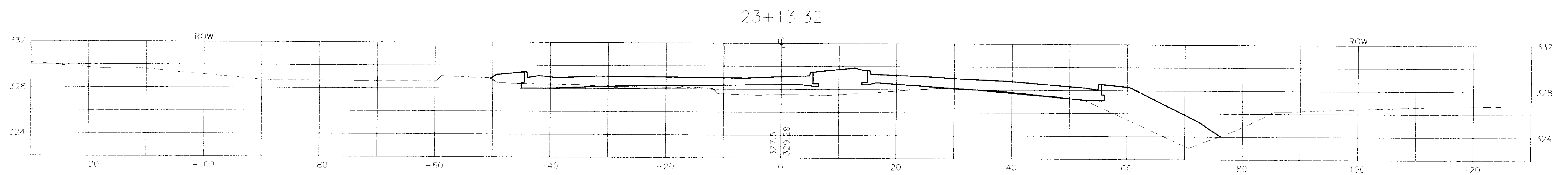
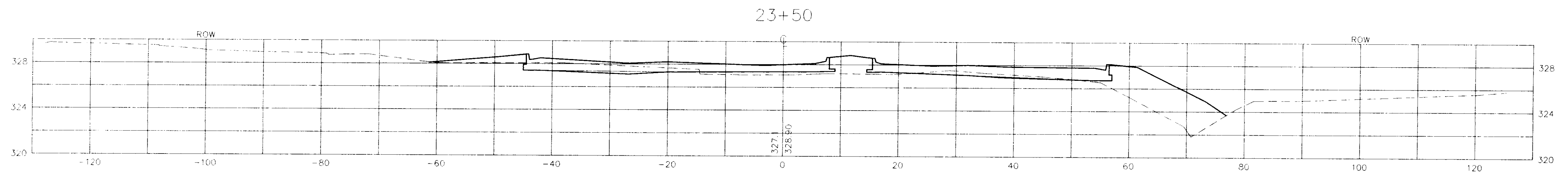
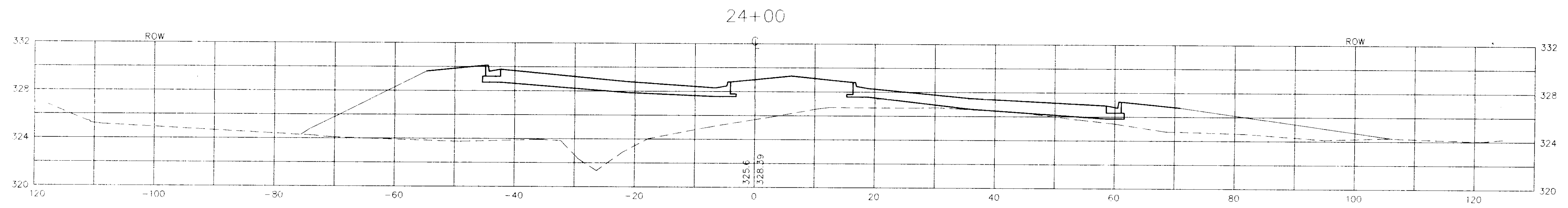
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 TRACED L.B.R. DATE Jan 1, 1945 DATE 1-1-43

SHEET NUMBER
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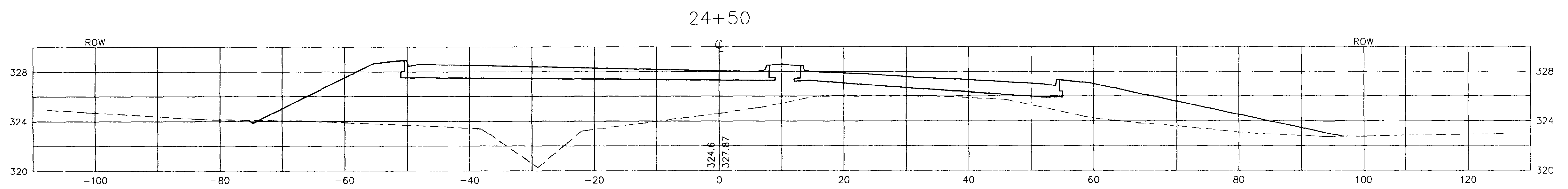
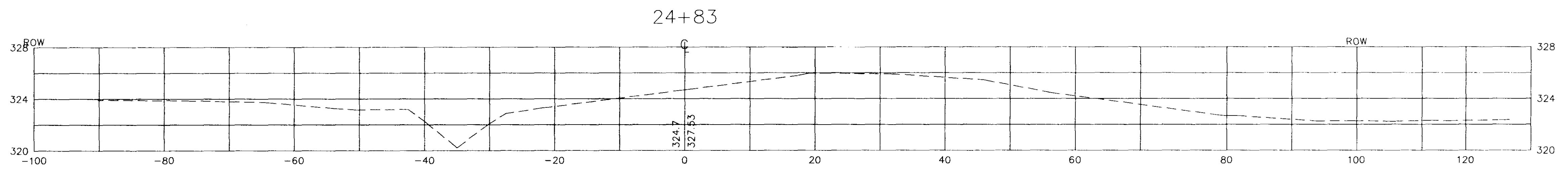
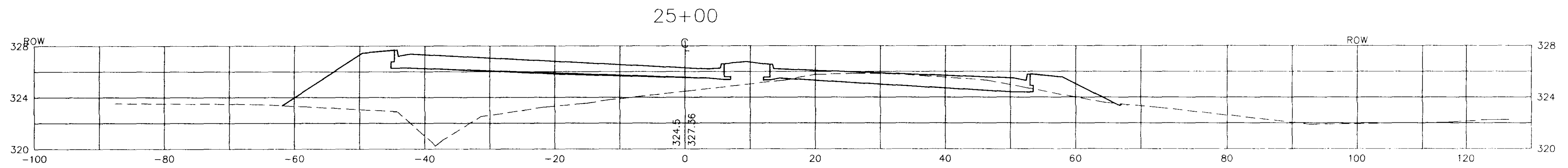
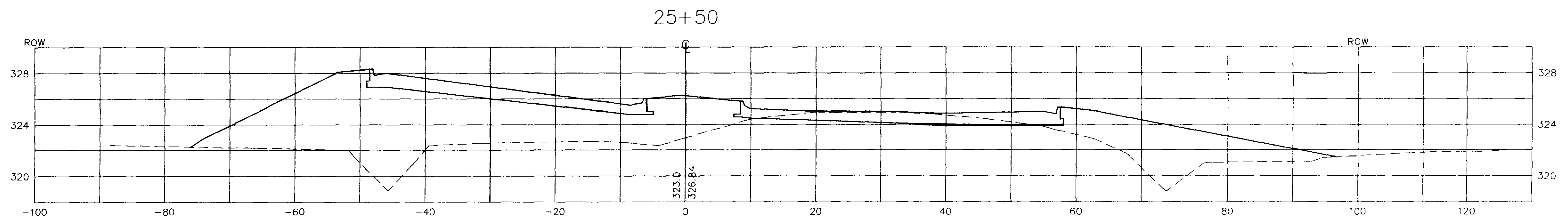
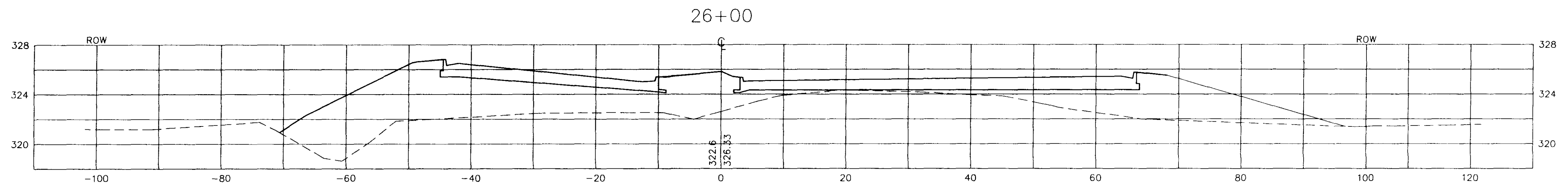


SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. + 901

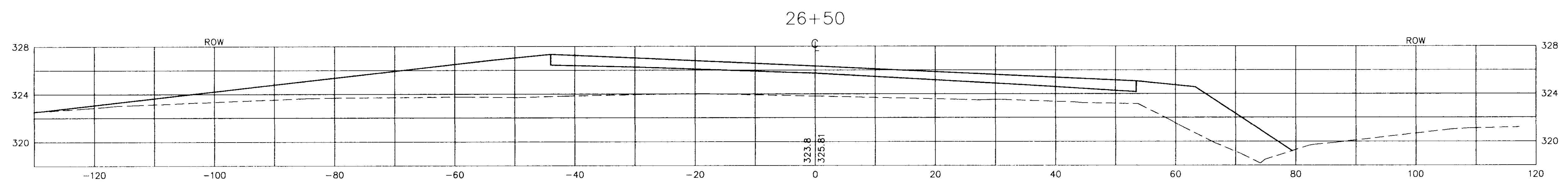
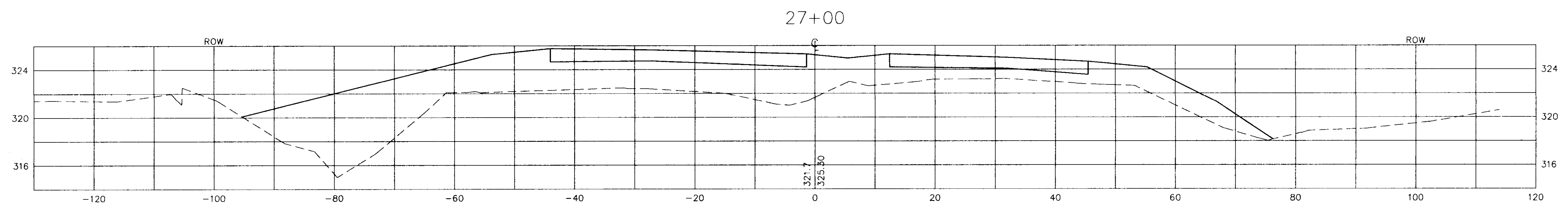
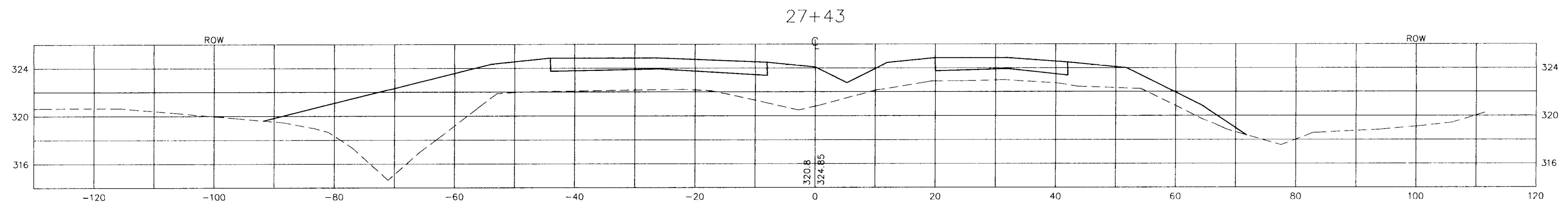
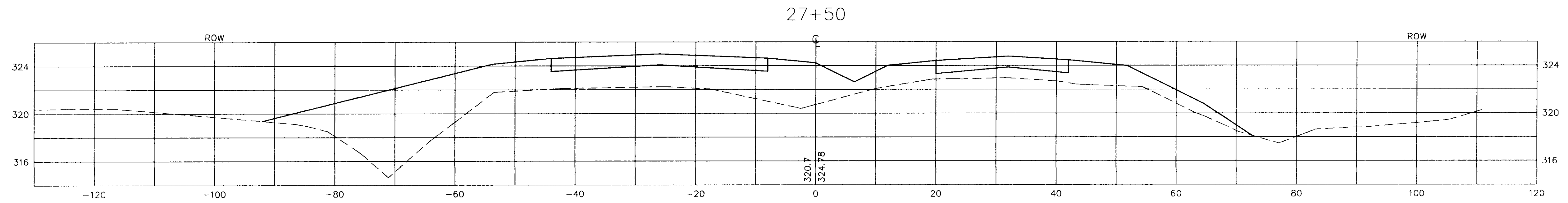
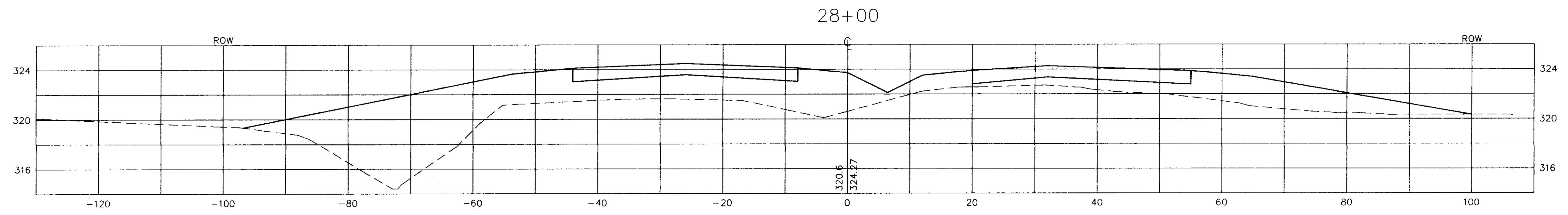
PWP-01212



SPILLWAY ROAD
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 1"=5' VERT.
 SHEET NO. 2 902

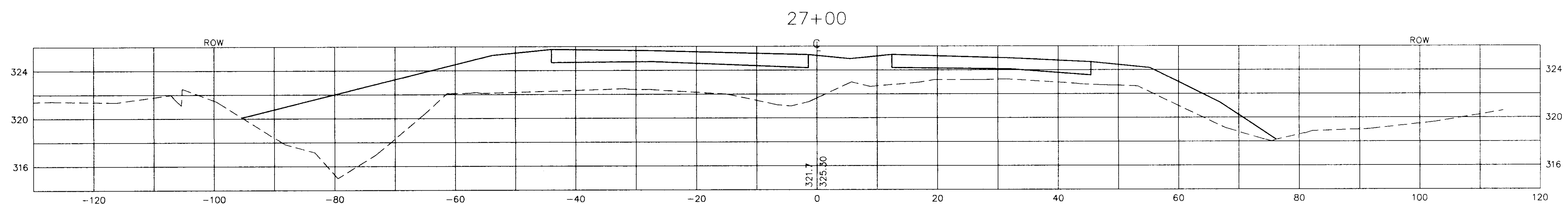
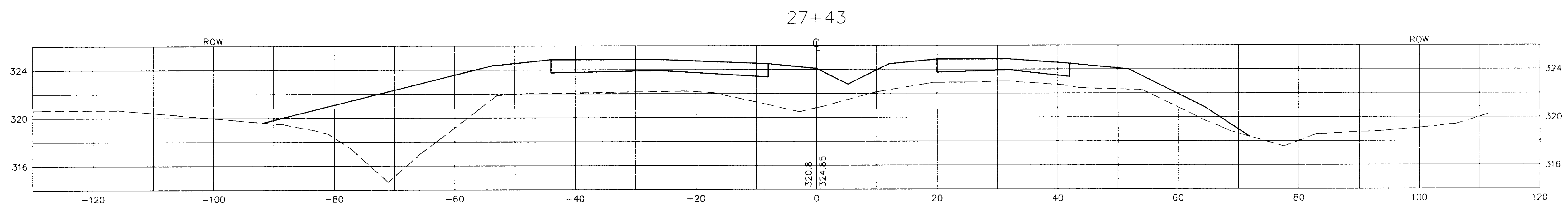
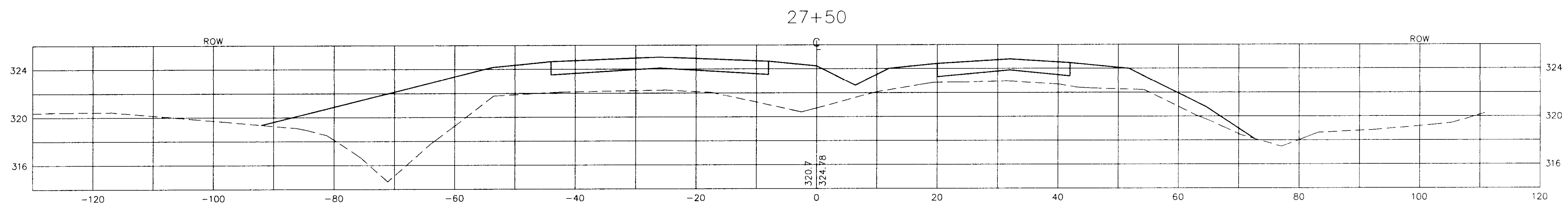
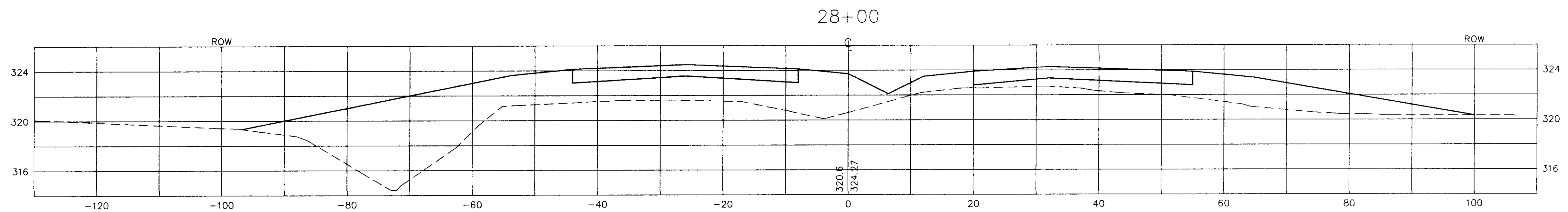
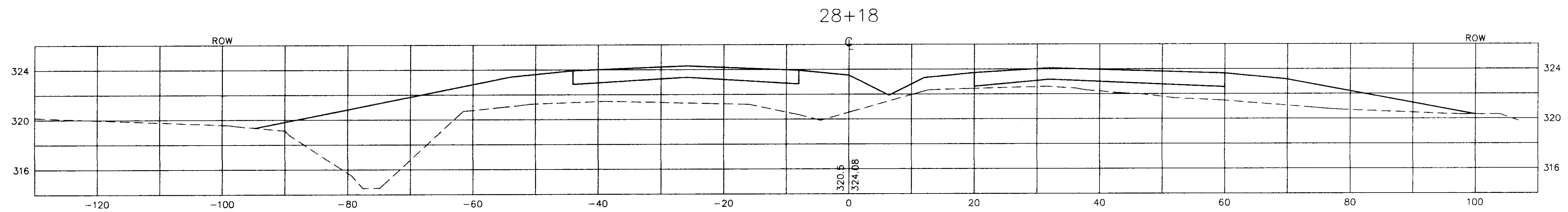


SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 4903

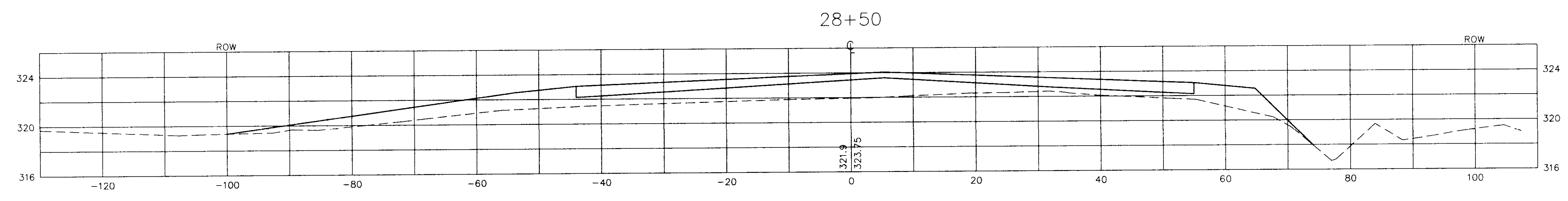
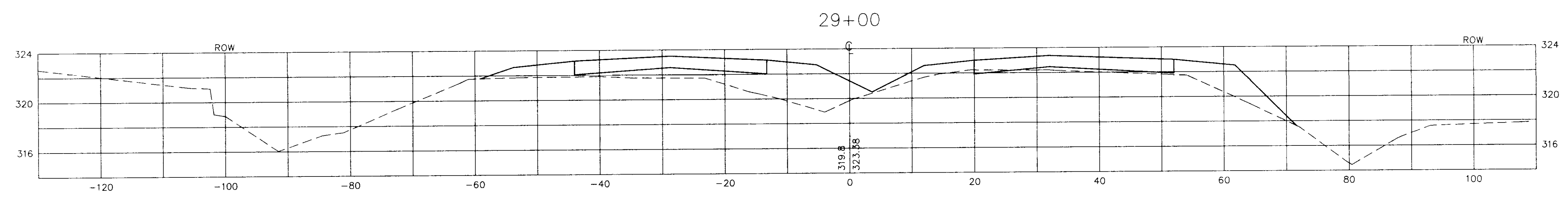
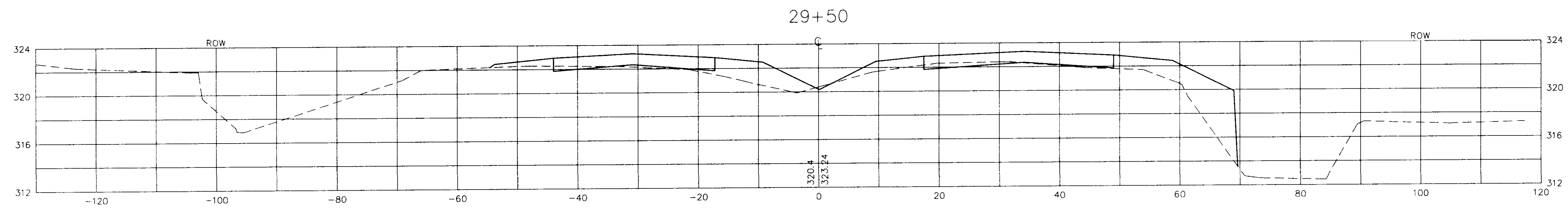
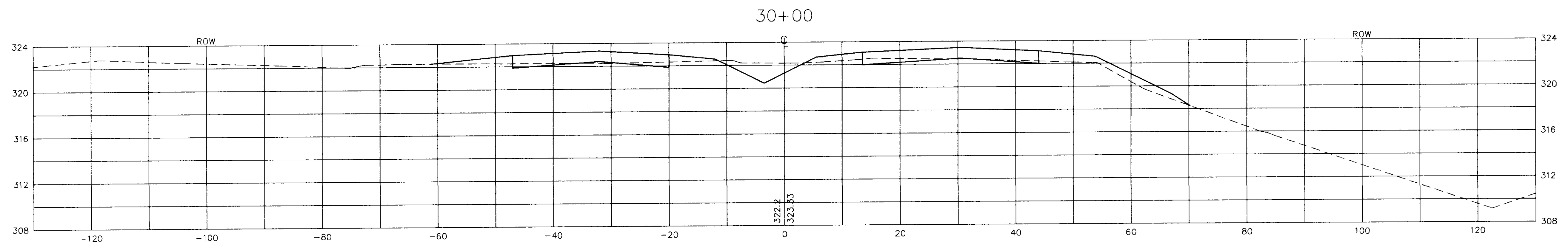
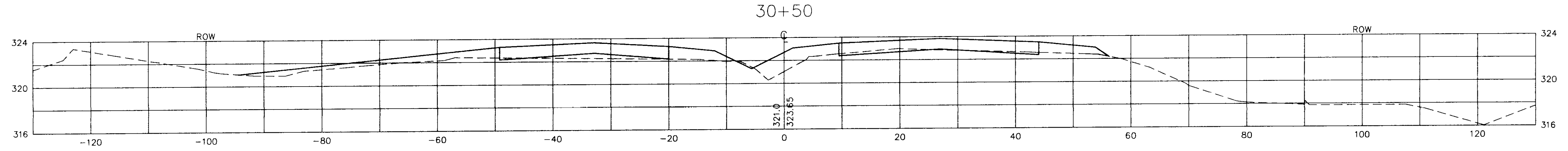


SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=5' VERT.

SHEET NO. 4904

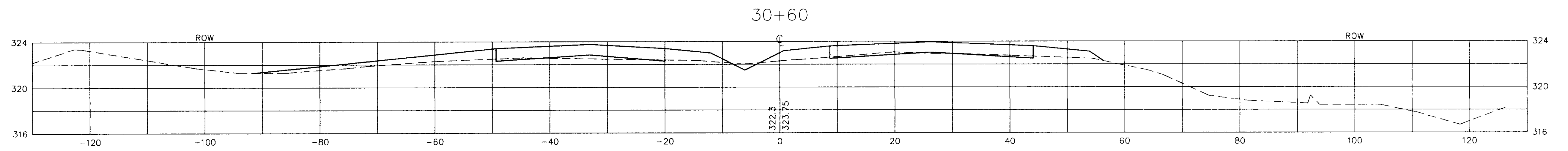
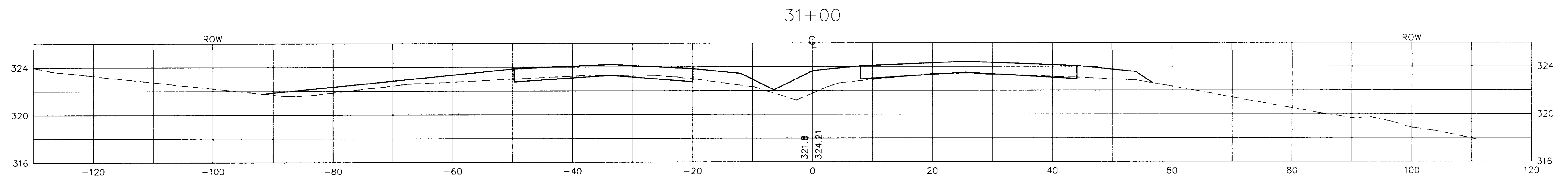
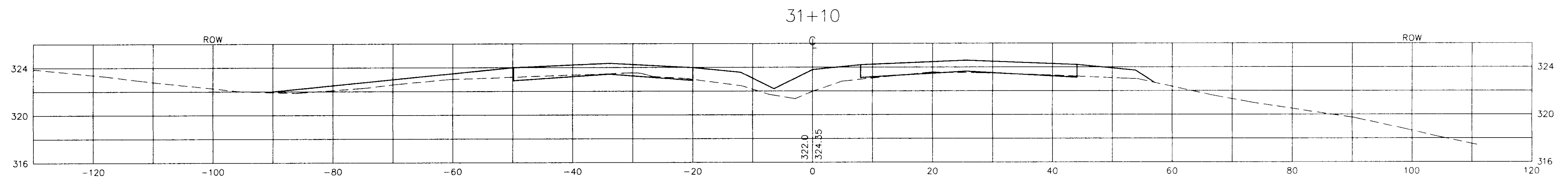
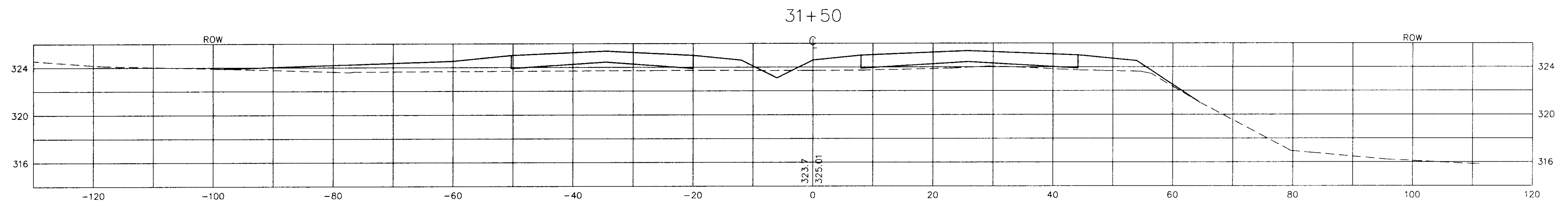
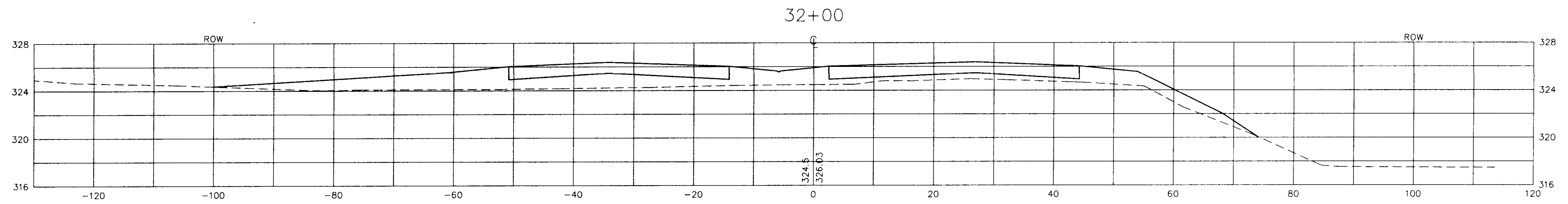


SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ
 1"=5' VERT.
 SHEET NO. 495

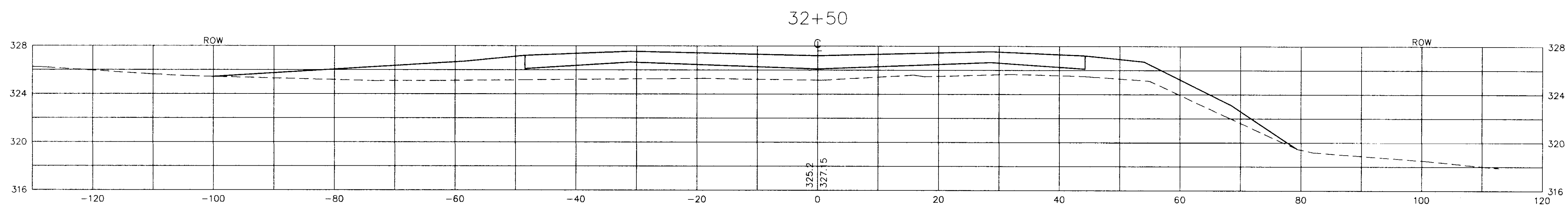
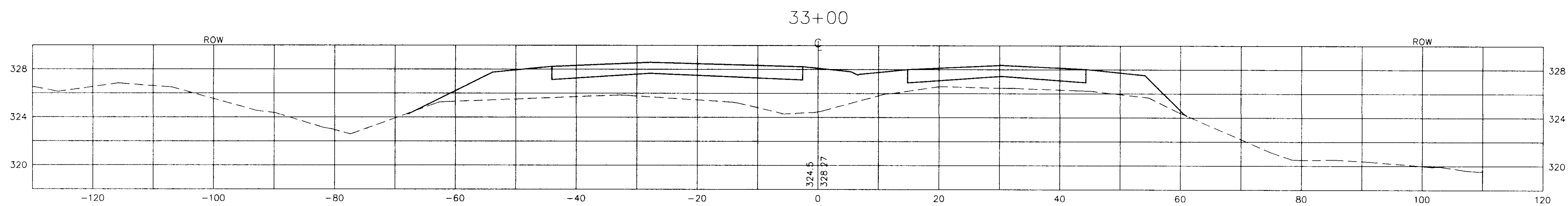
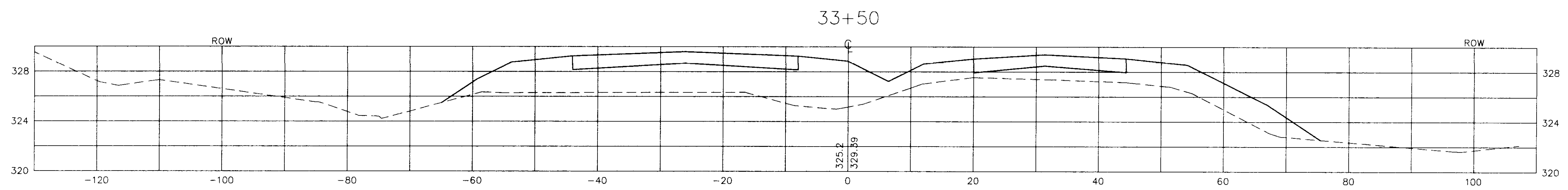
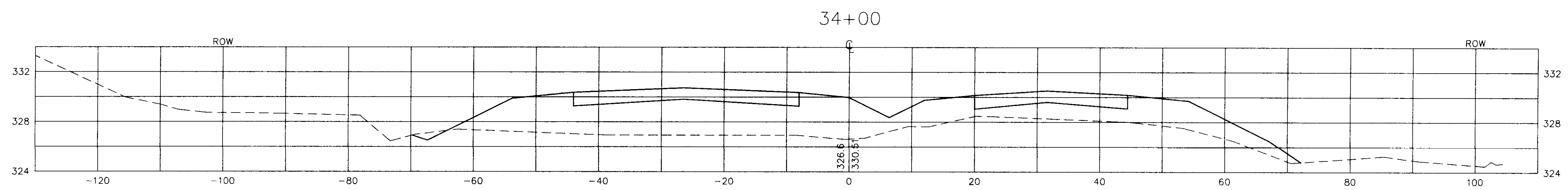
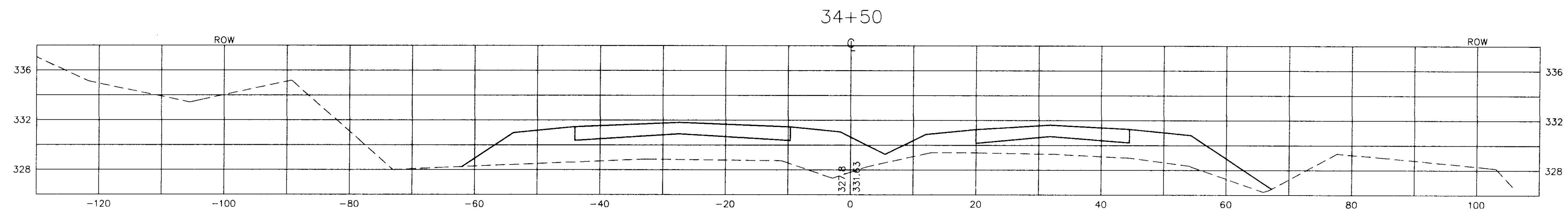


SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ
1"=5' VERT.
SHEET NO. 906

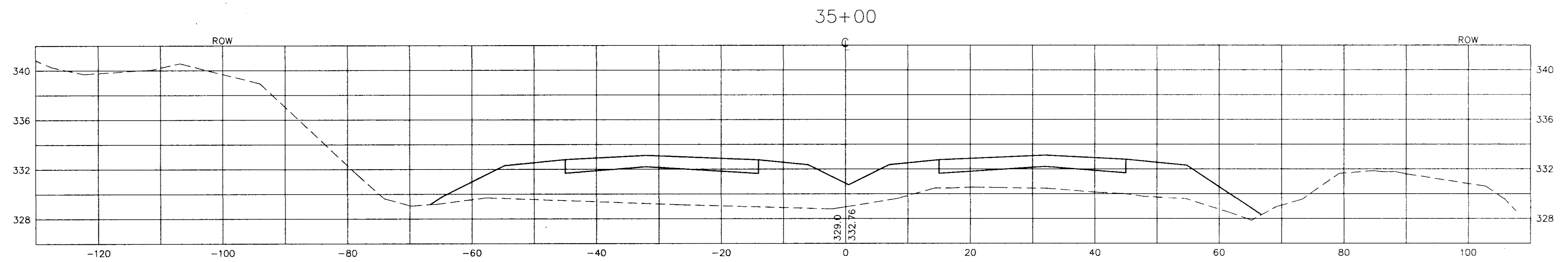
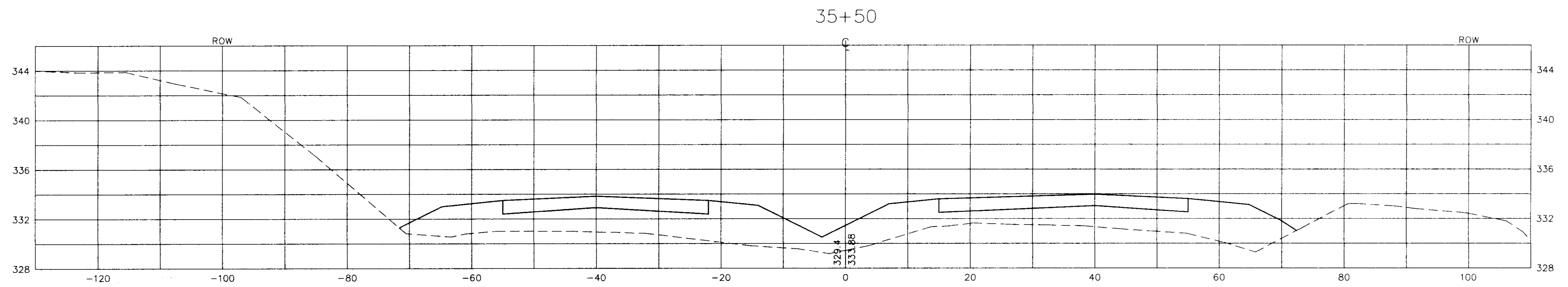
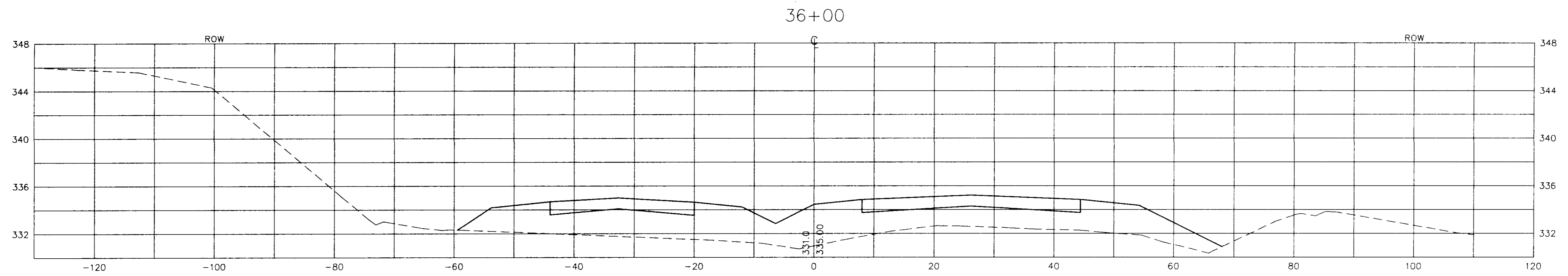
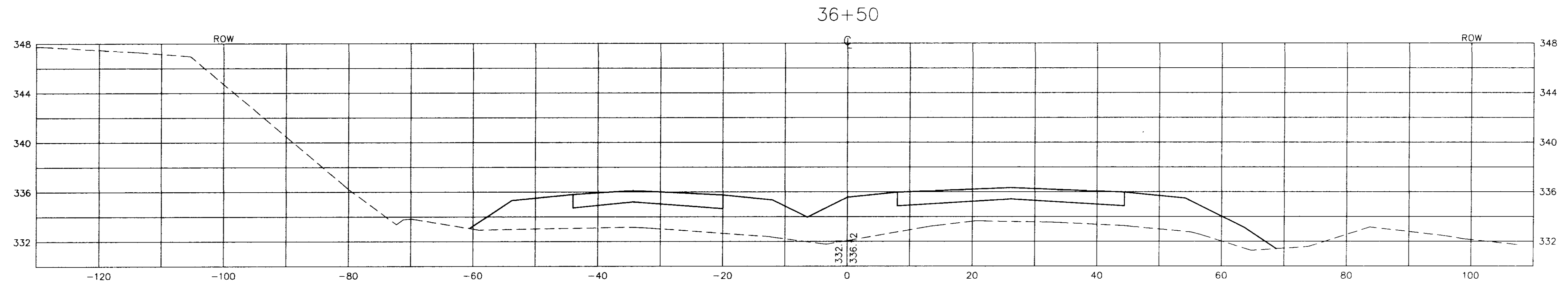
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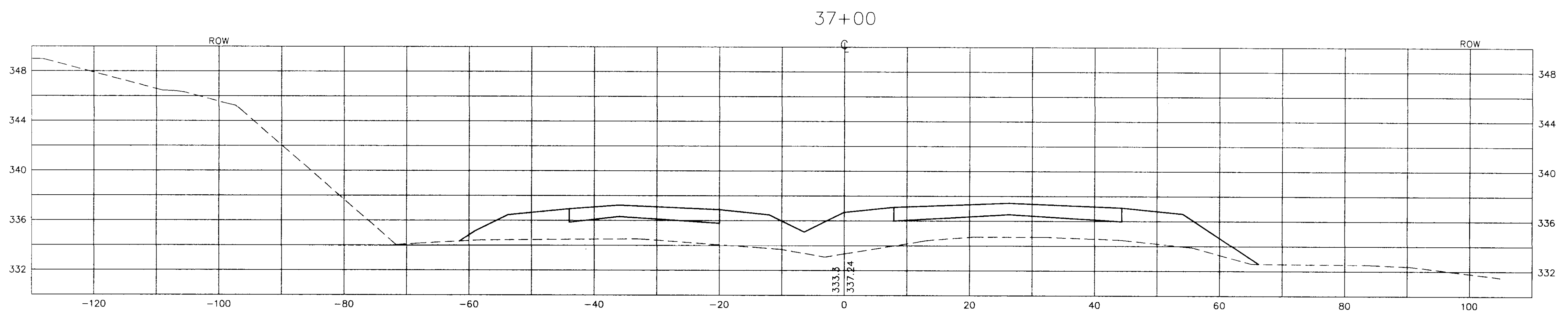
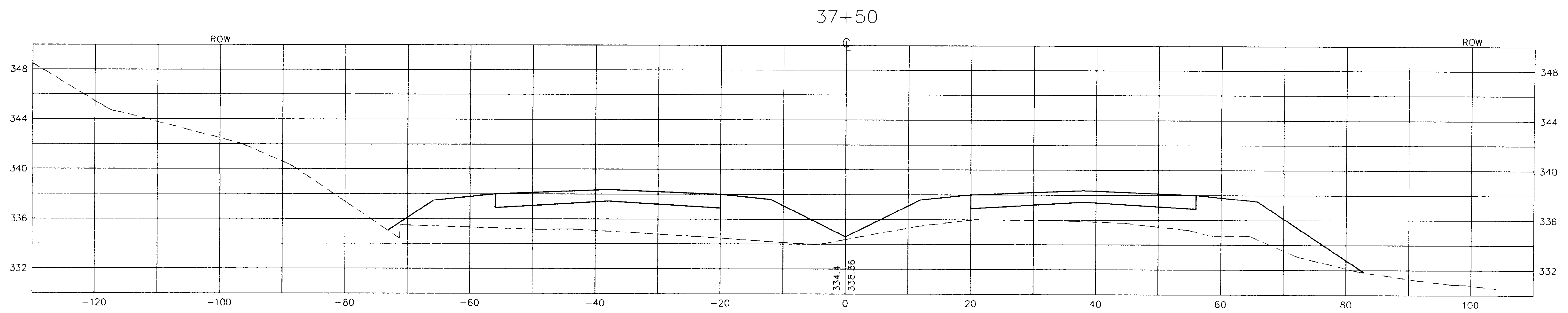
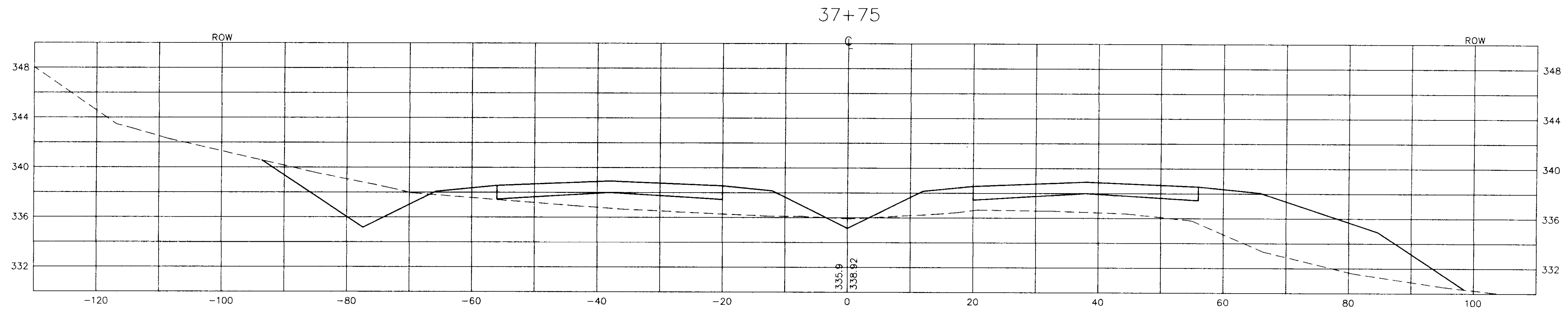
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 901



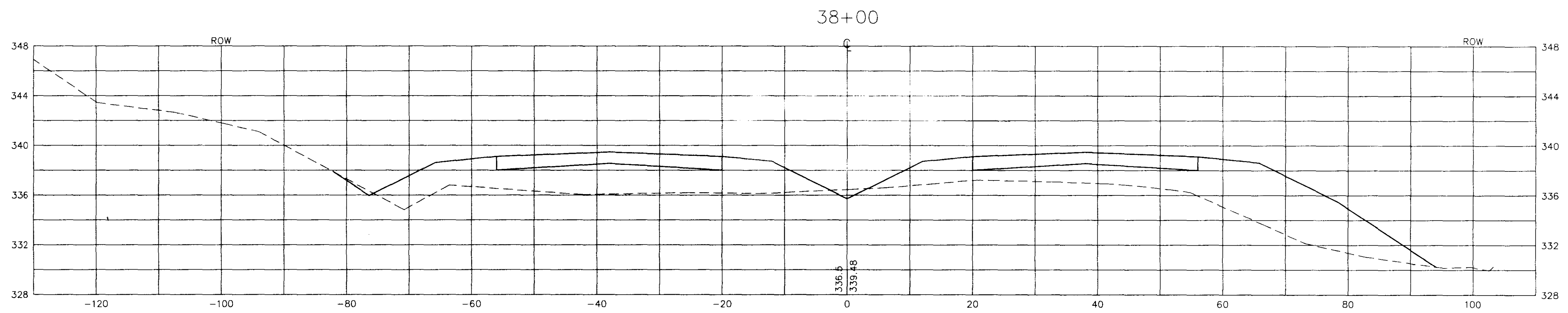
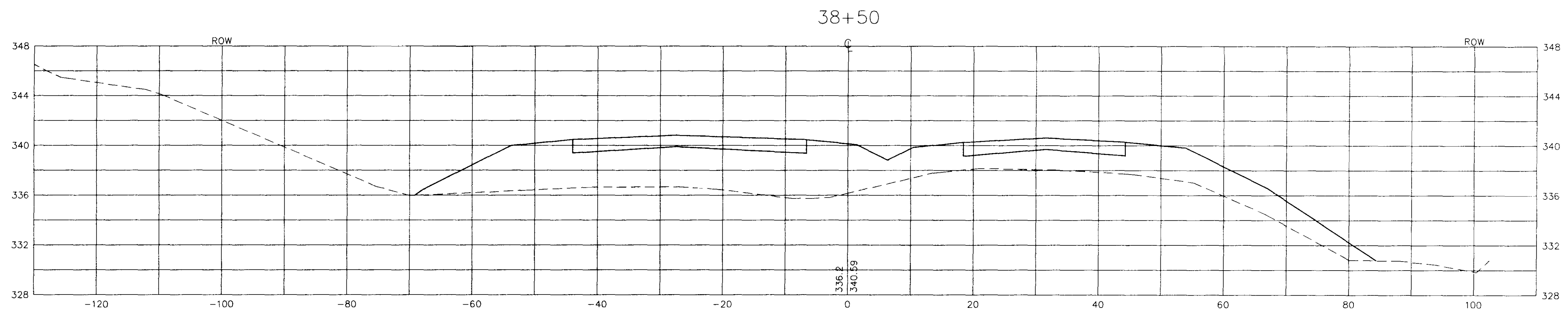
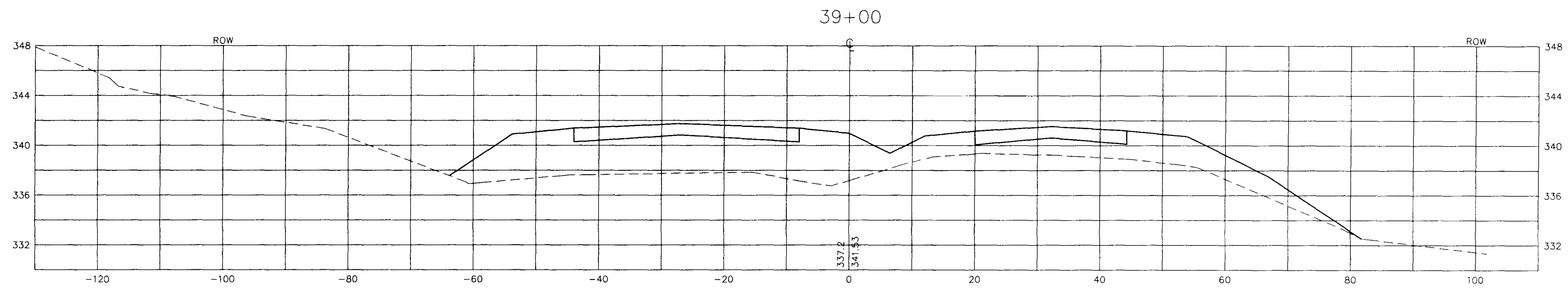
SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=5' VERT.
 SHEET NO. 708



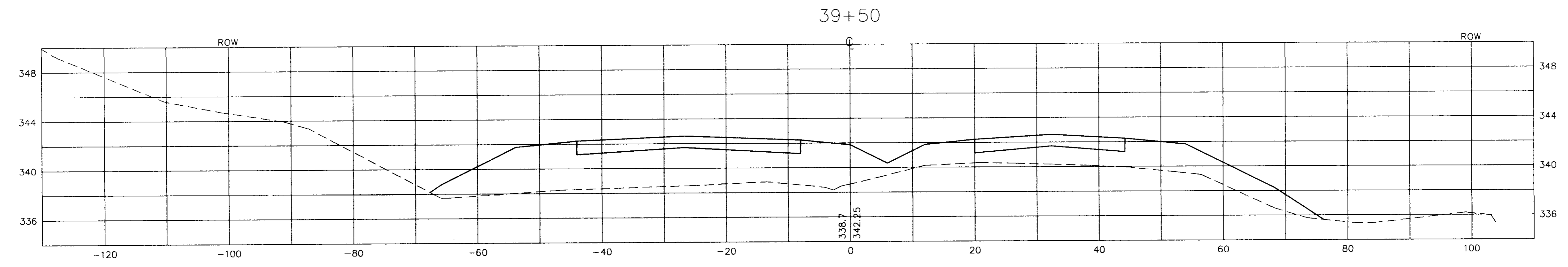
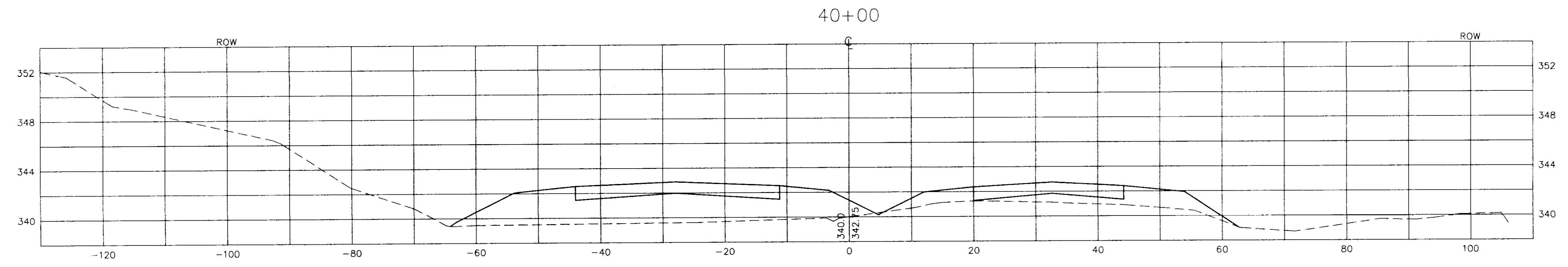
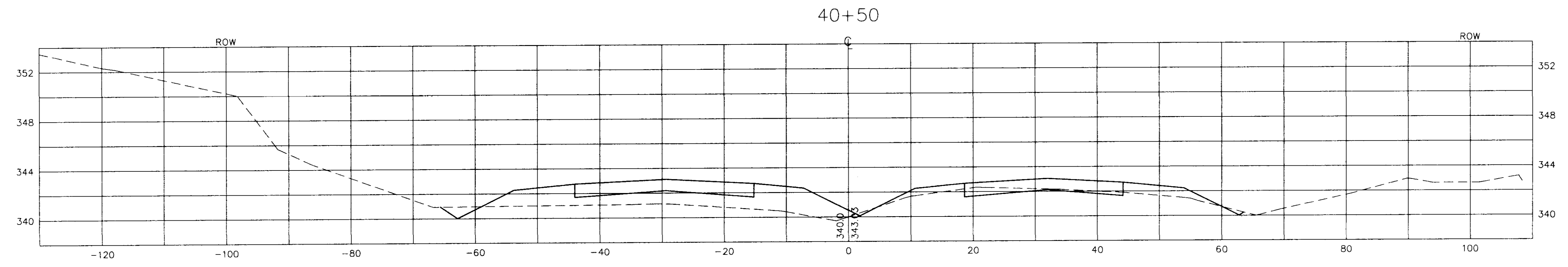
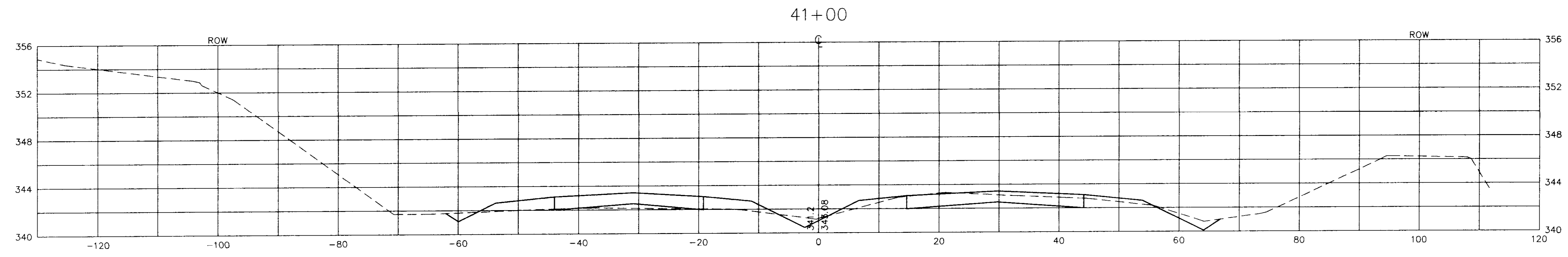
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 904



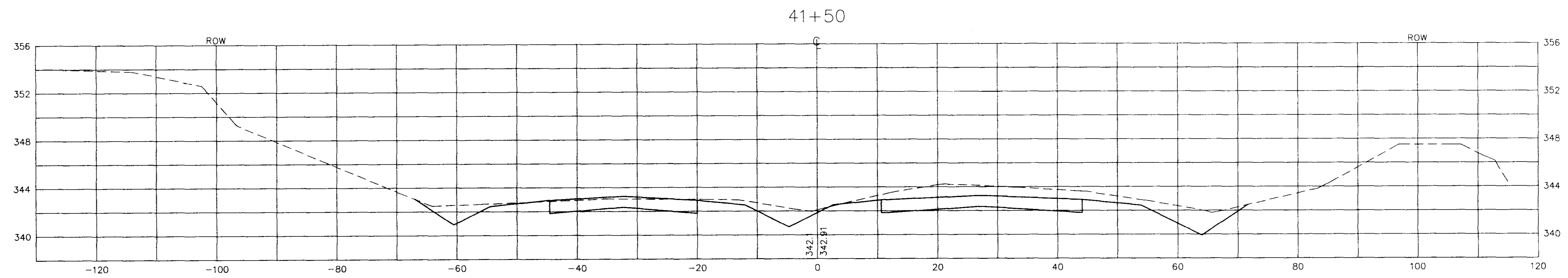
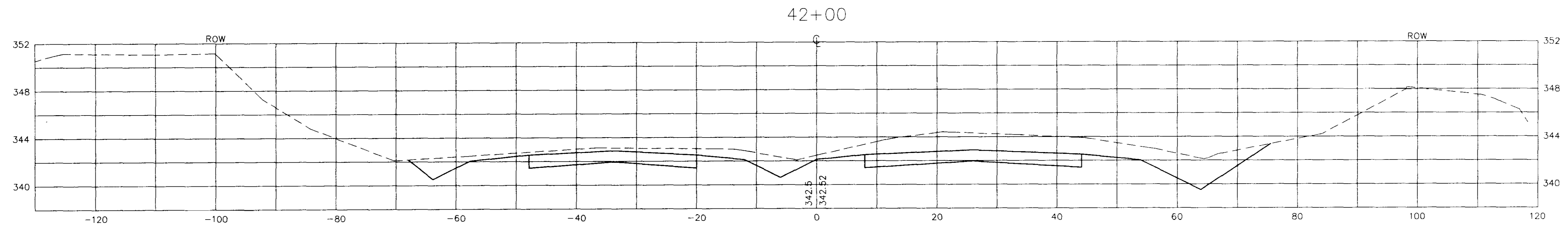
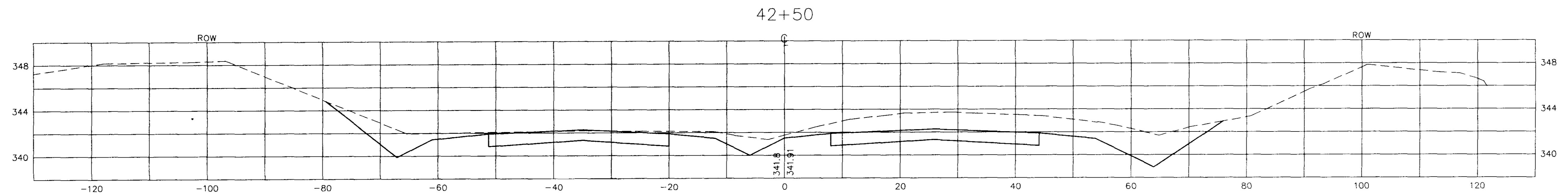
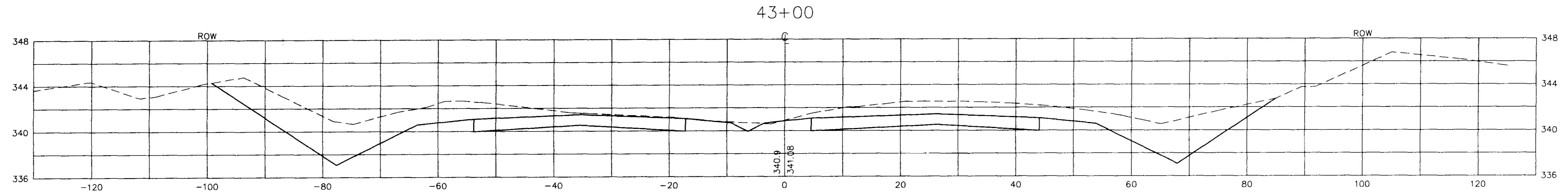
SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=5' VERT.
 SHEET NO. 910



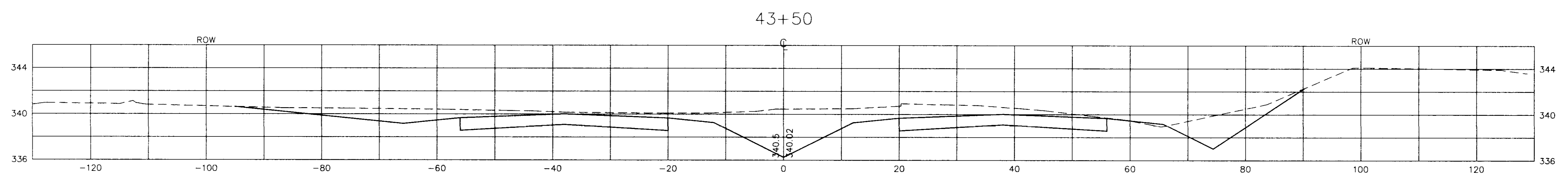
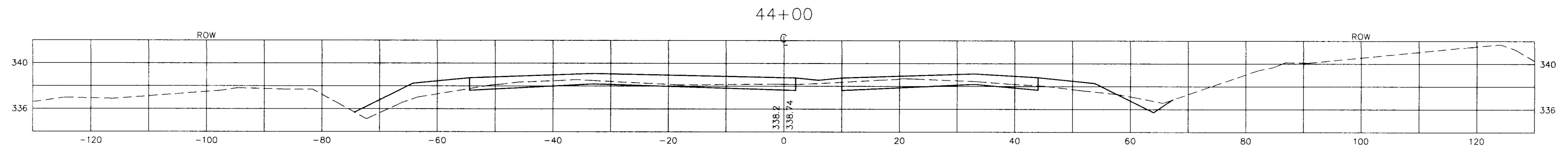
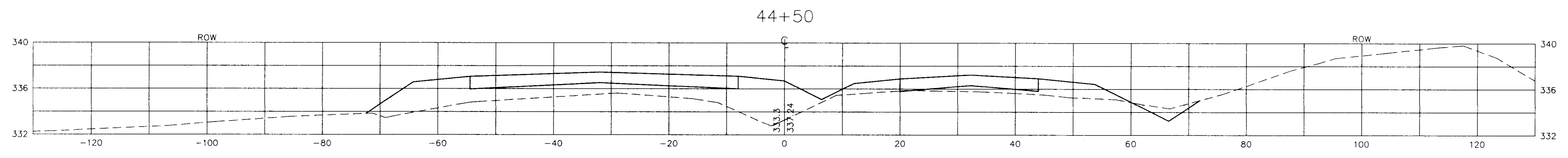
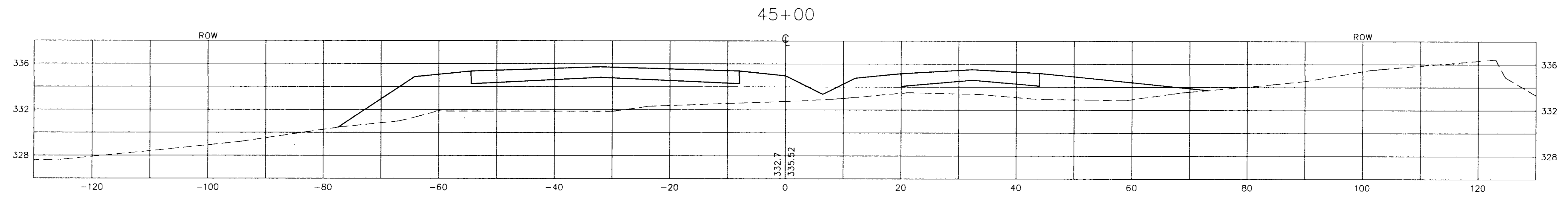
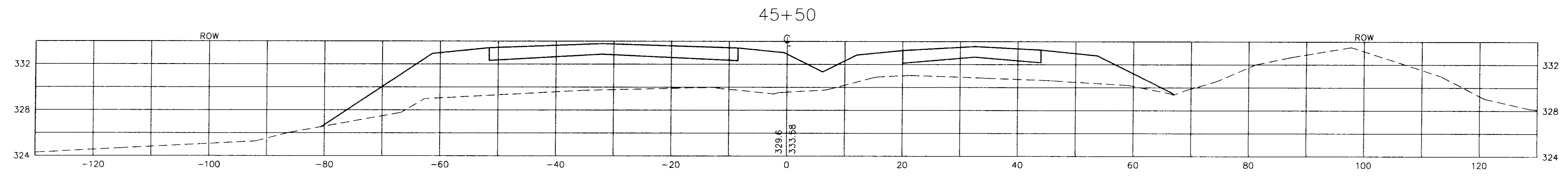
SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ
 1"=5' VERT.
 SHEET NO. 911



SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 912

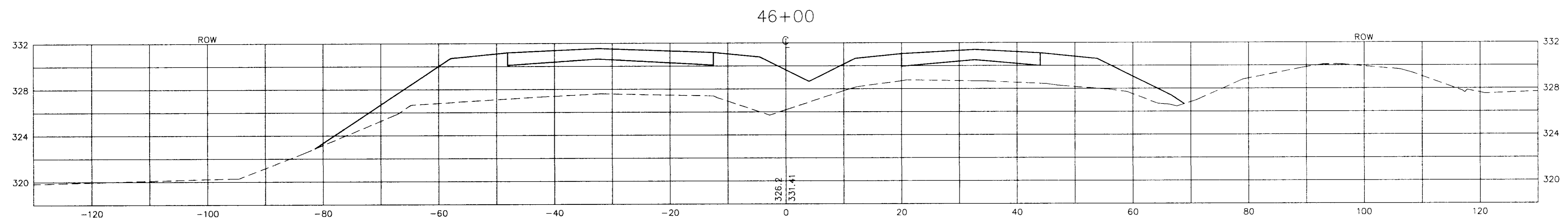
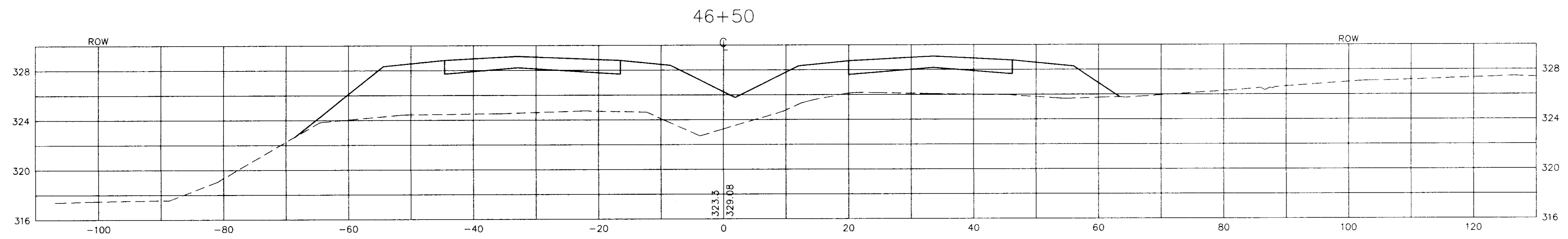
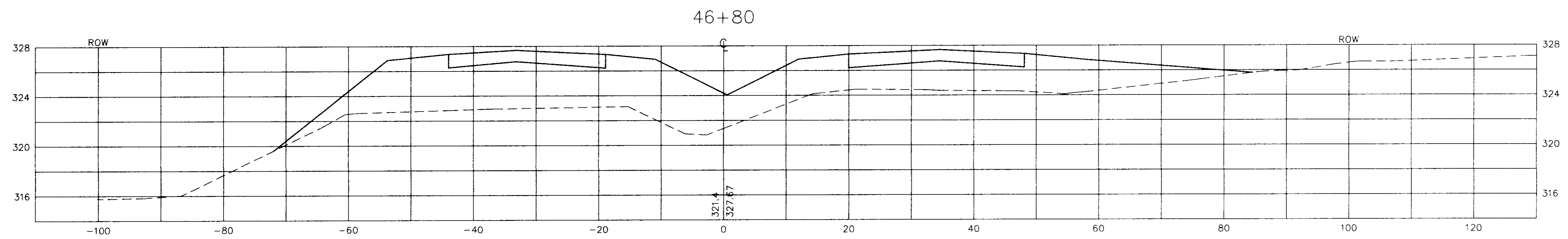
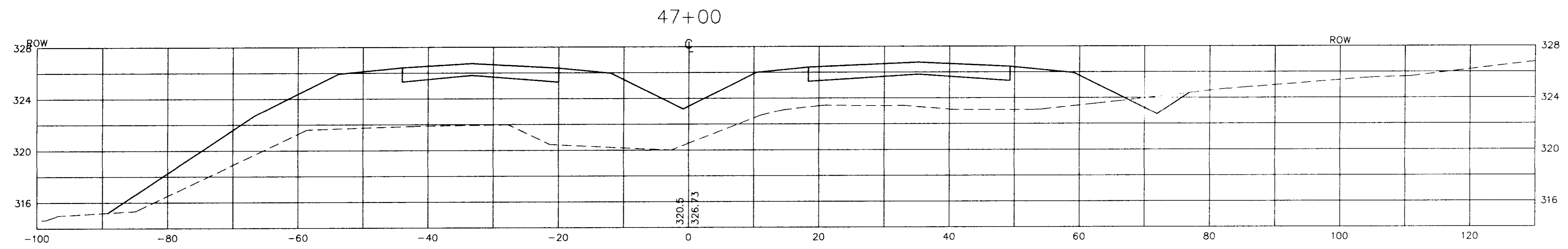


SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ
1"=5' VERT.
SHEET NO. 913



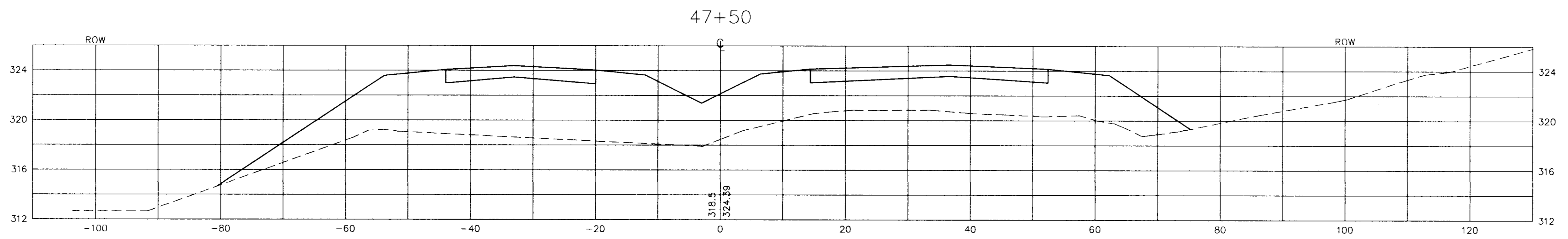
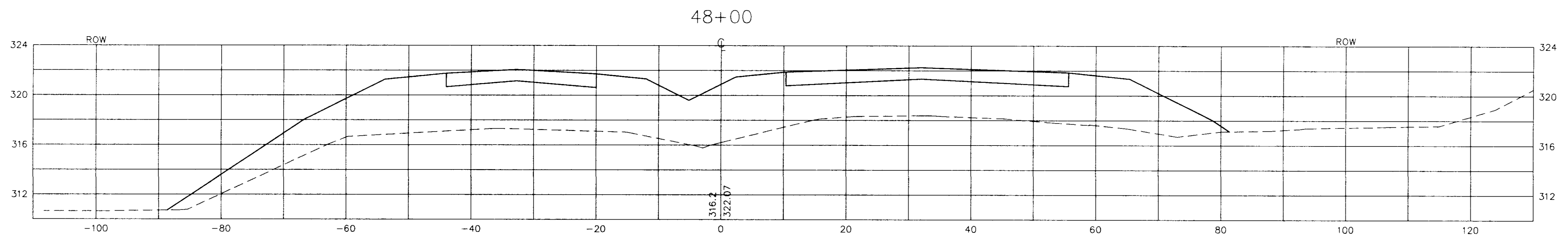
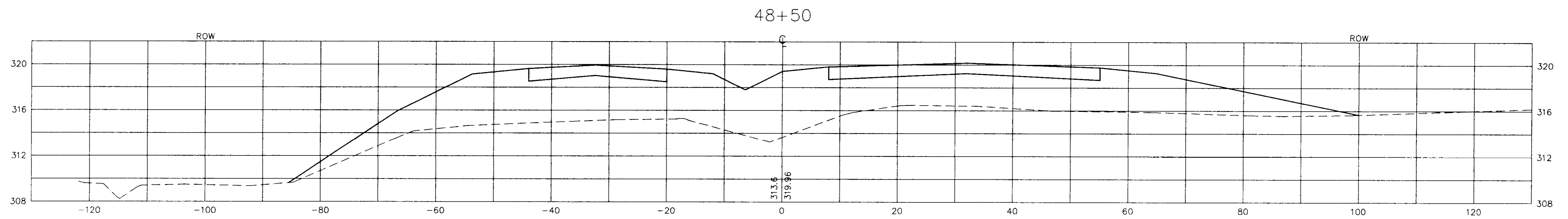
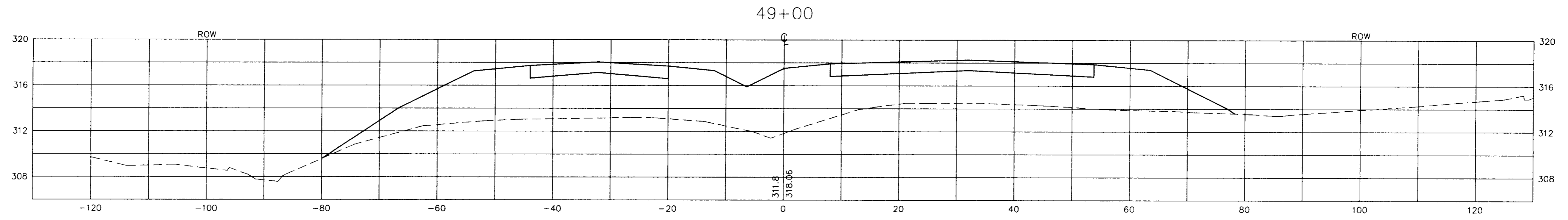
SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=5' VERT.
 SHEET NO. 914

C:\aschp01\94150e\51050SP13 The Apr 29 14:35:55 1997

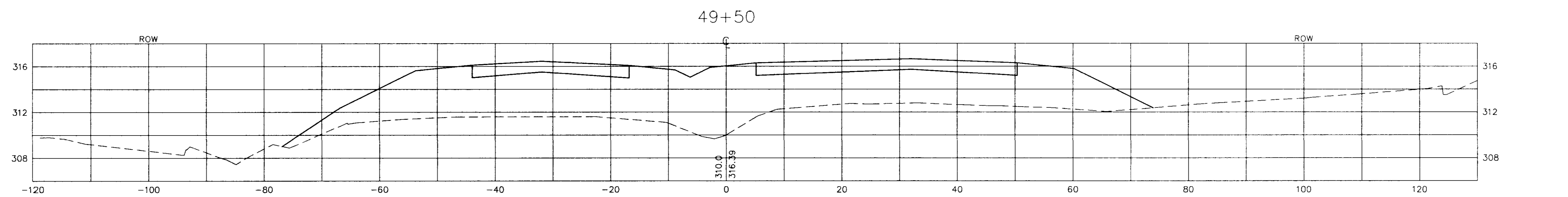
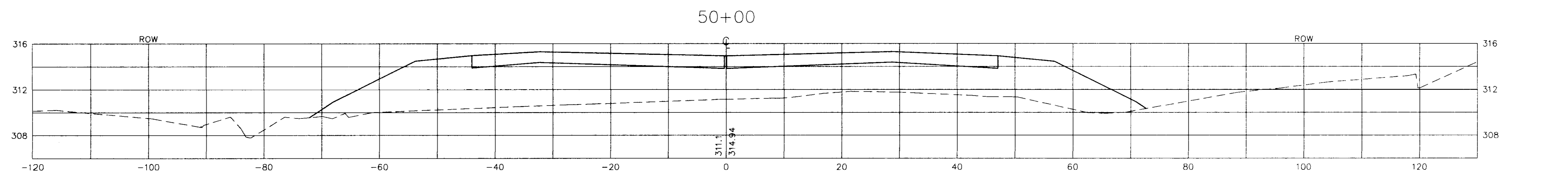
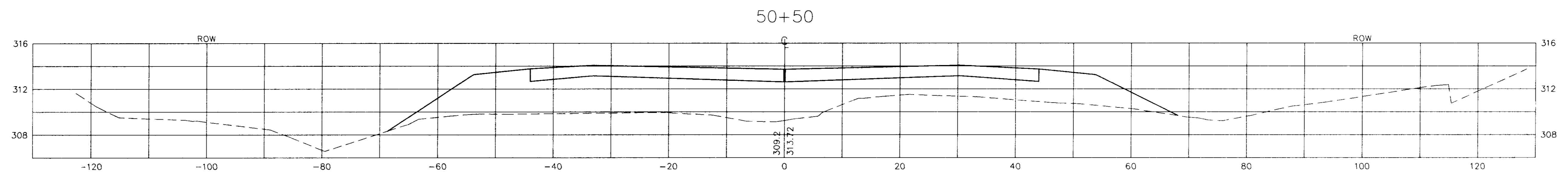
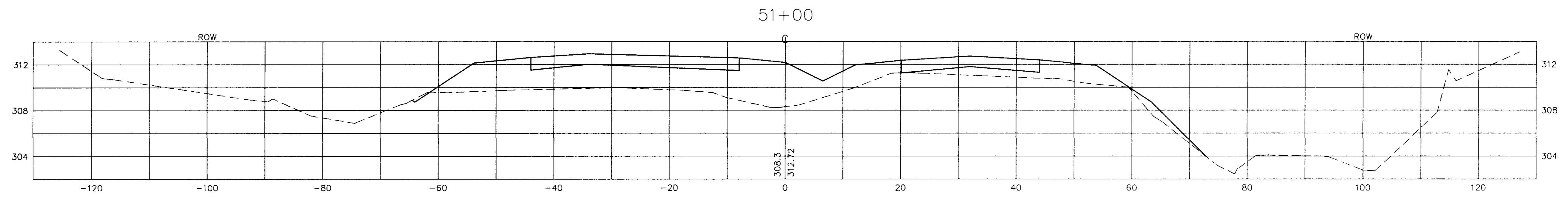
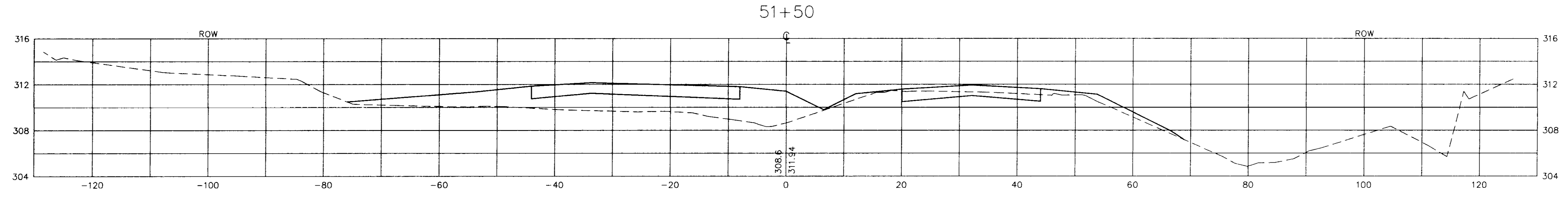


SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ
 1"=5' VERT.
 SHEET NO. 915

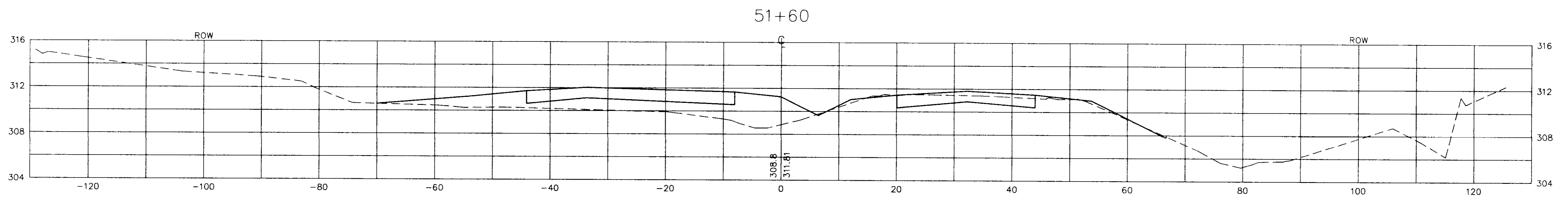
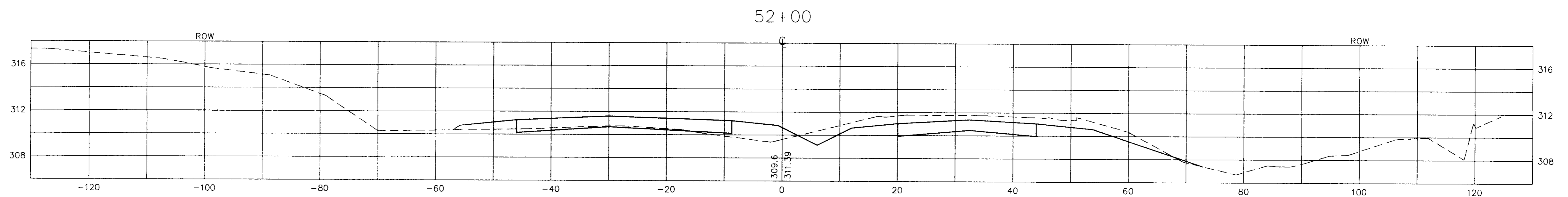
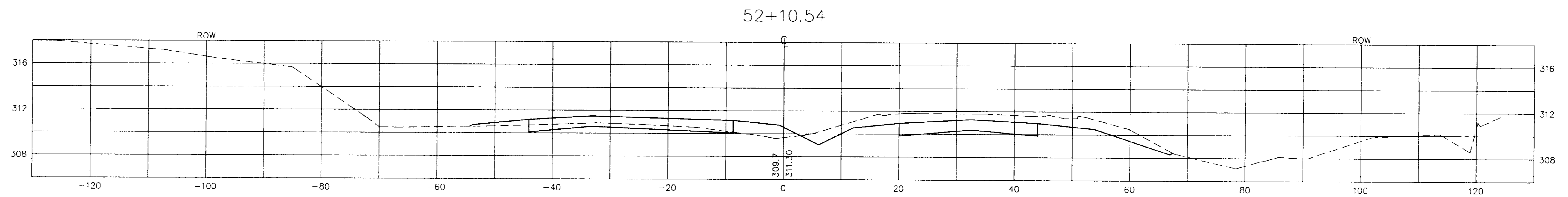
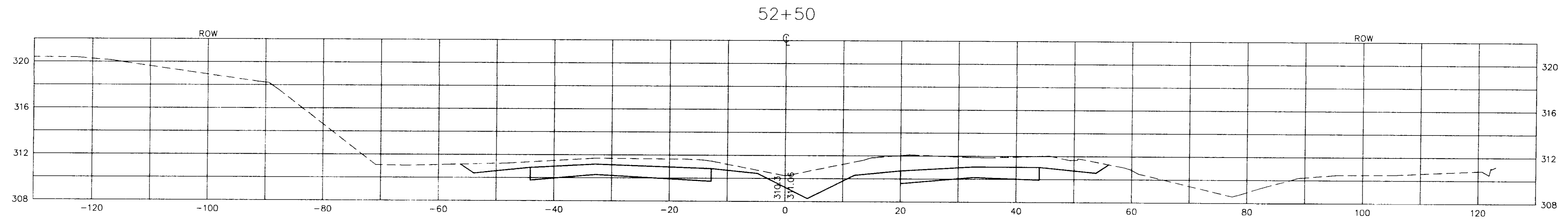
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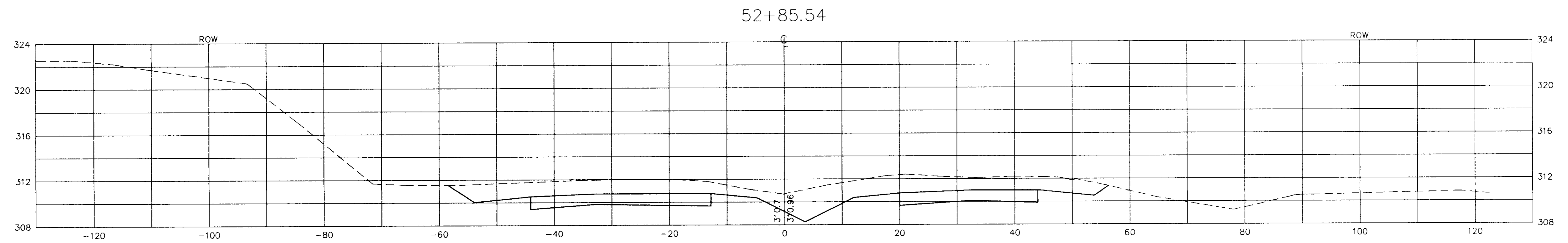
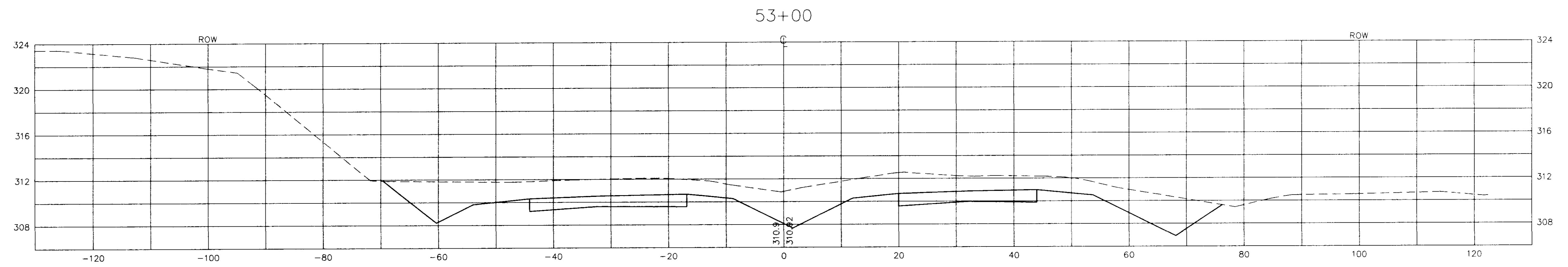
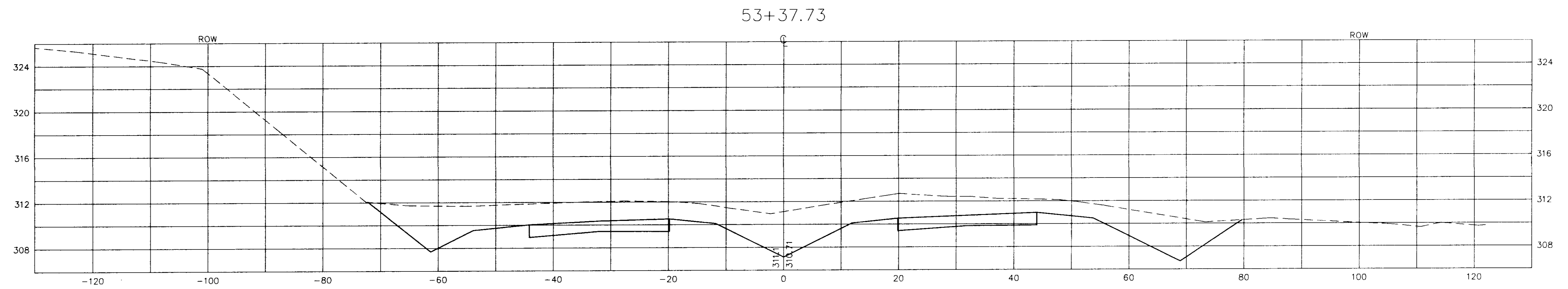
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 916



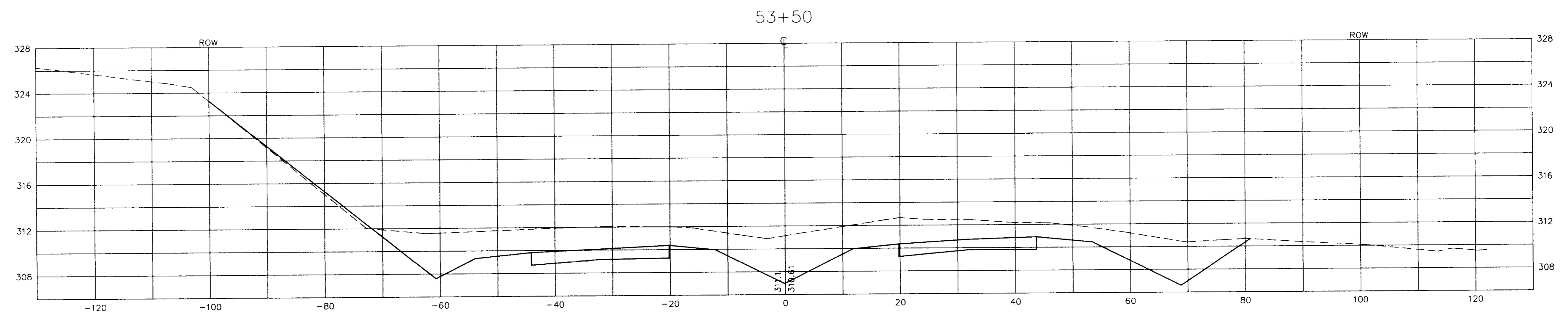
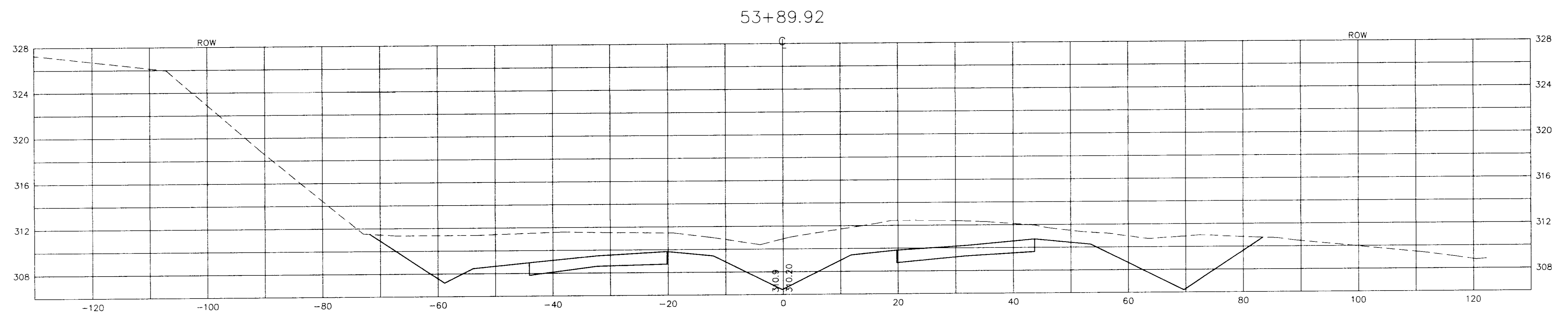
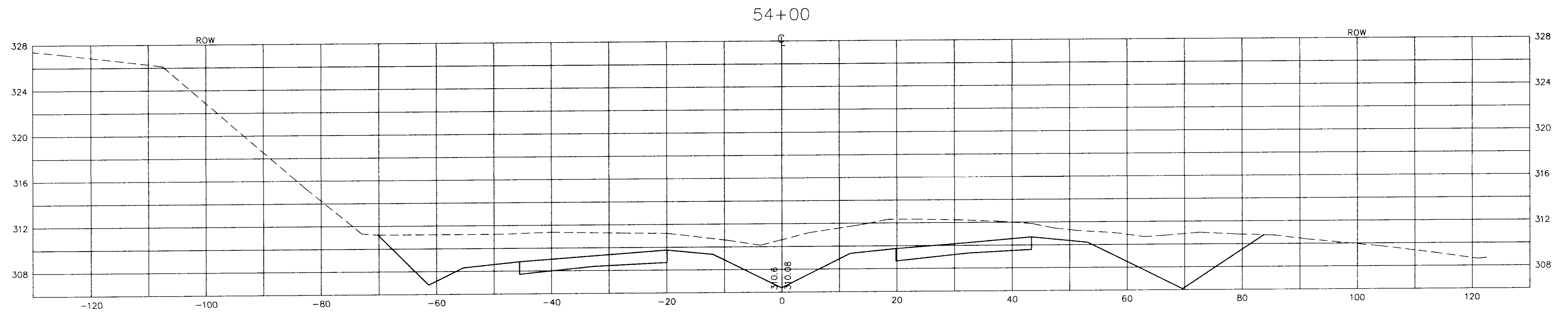
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ
1"=5' VERT
SHEET NO. 7911



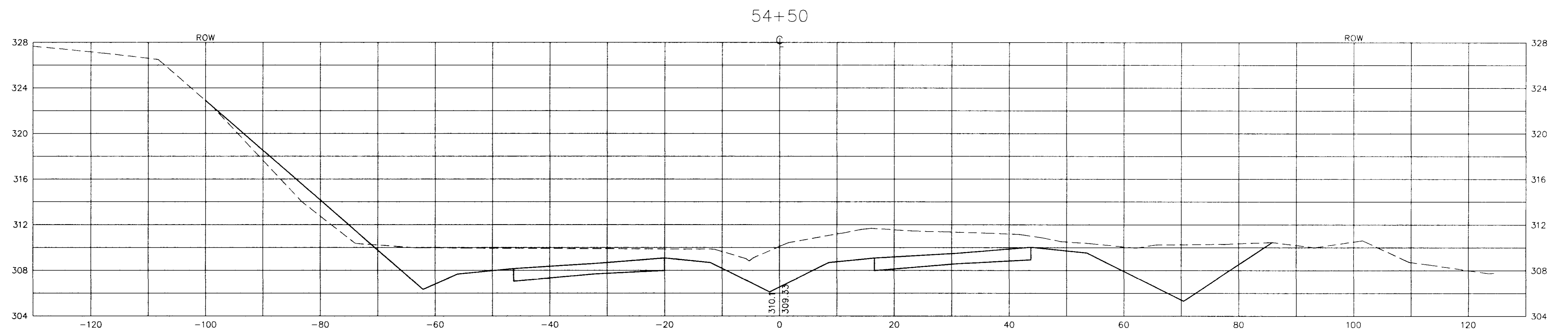
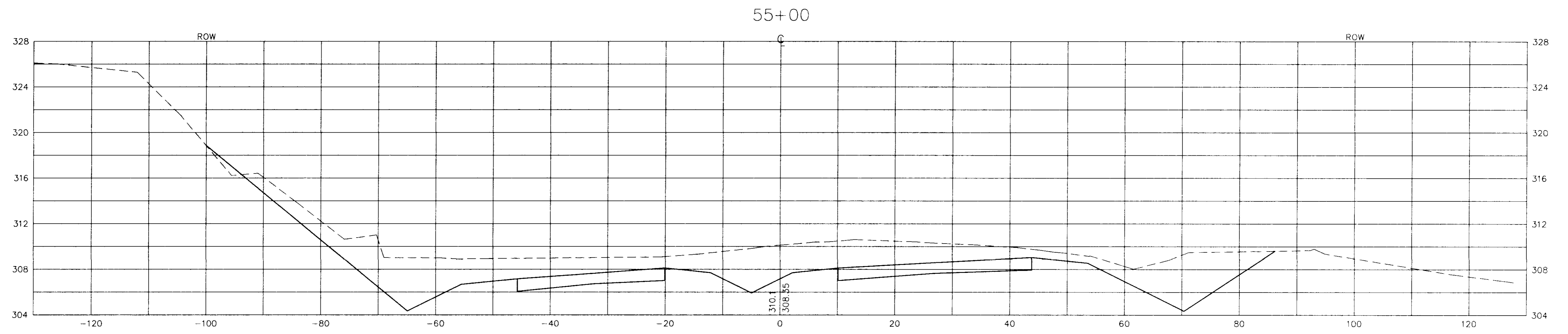
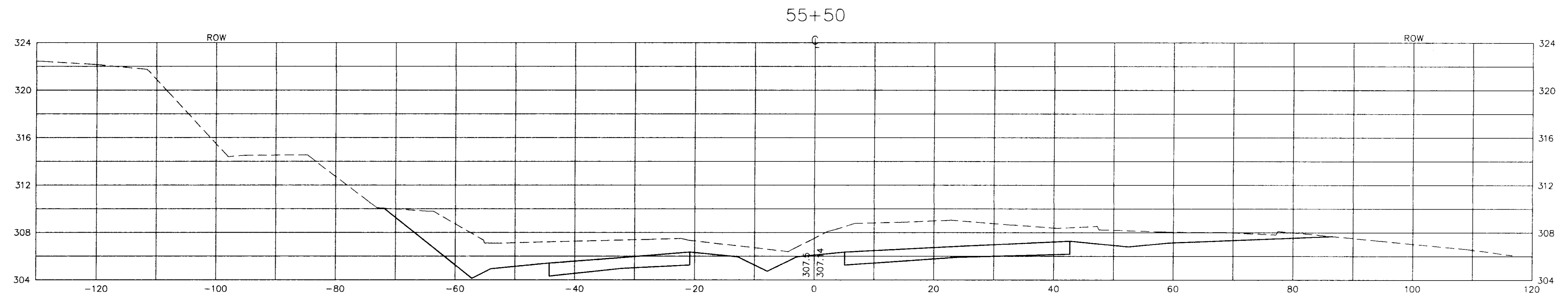
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 18 918



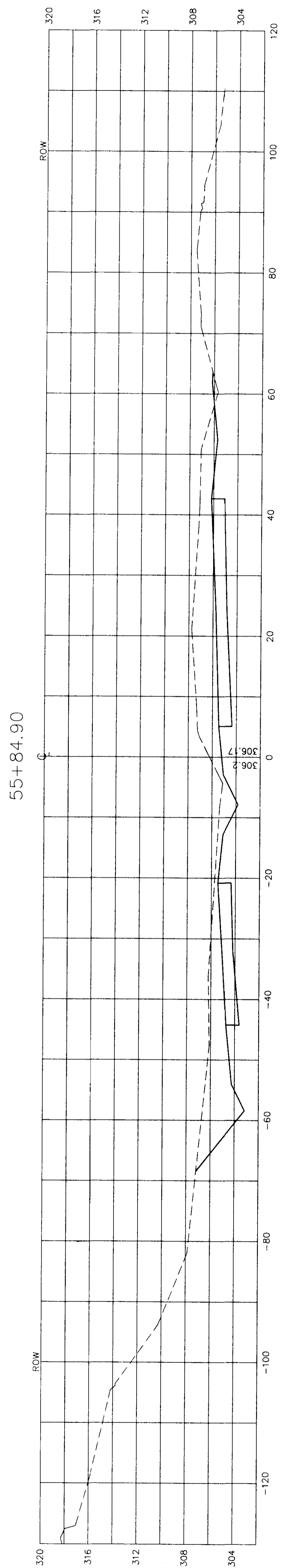
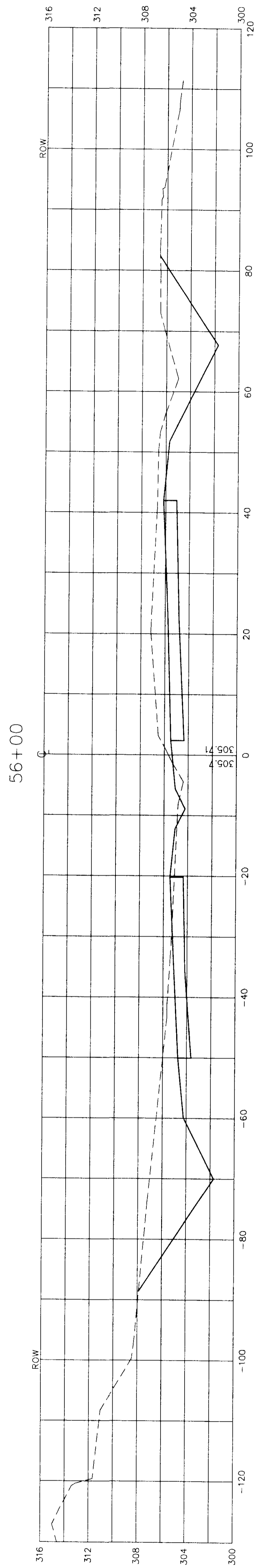
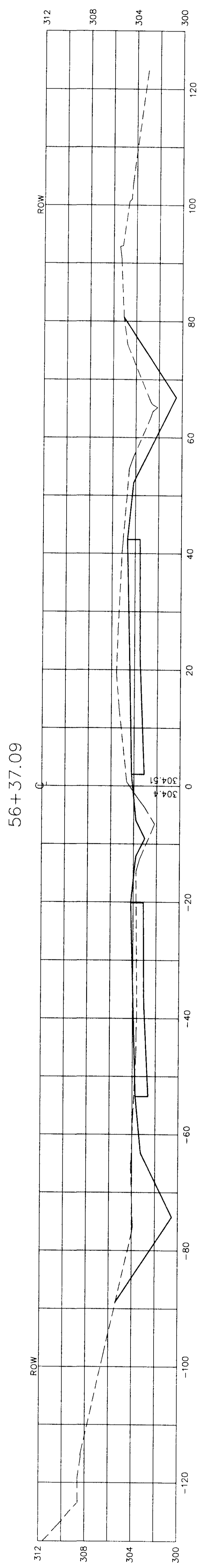
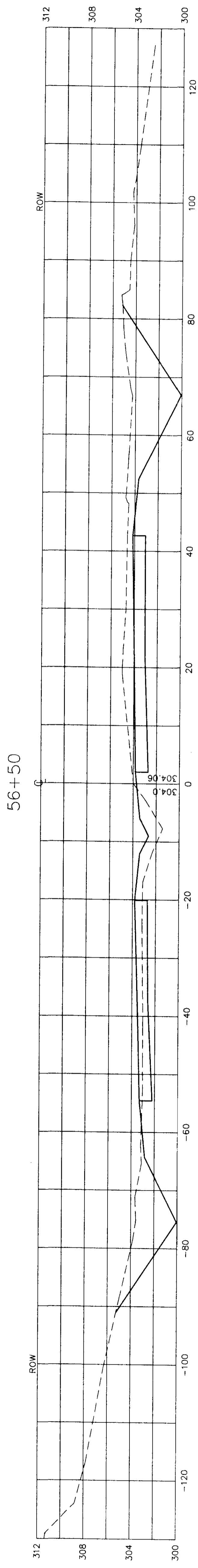
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 219

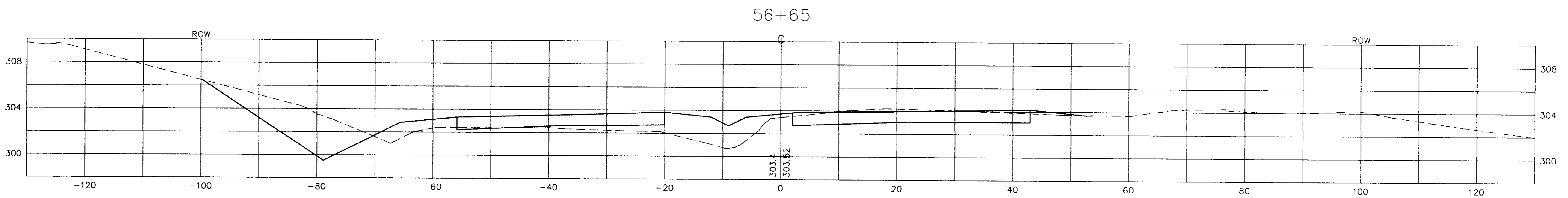
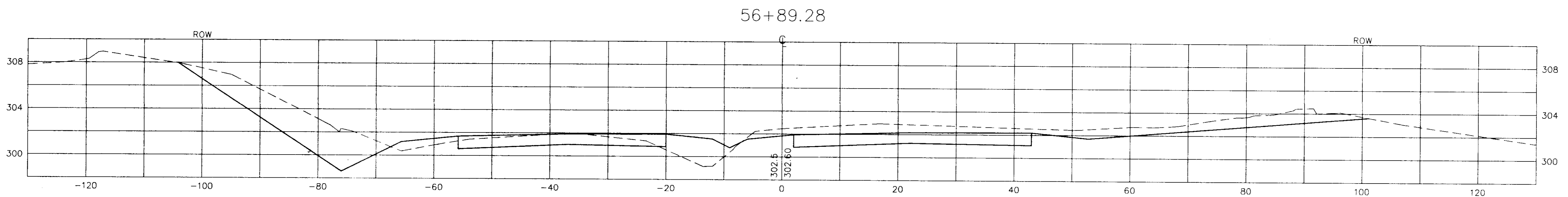
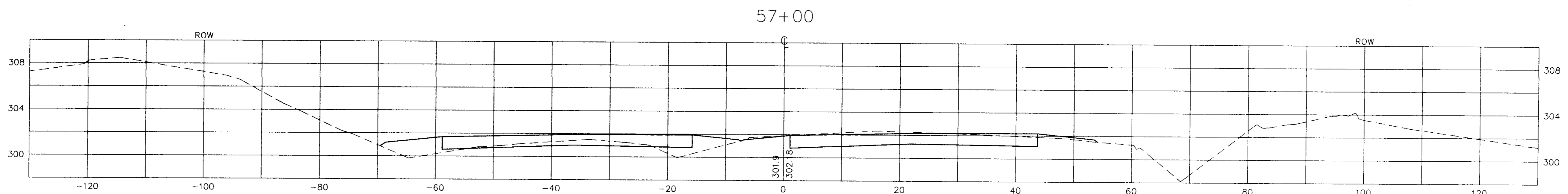
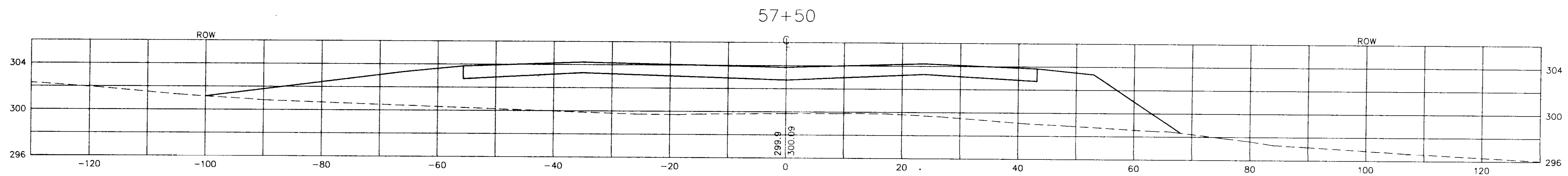
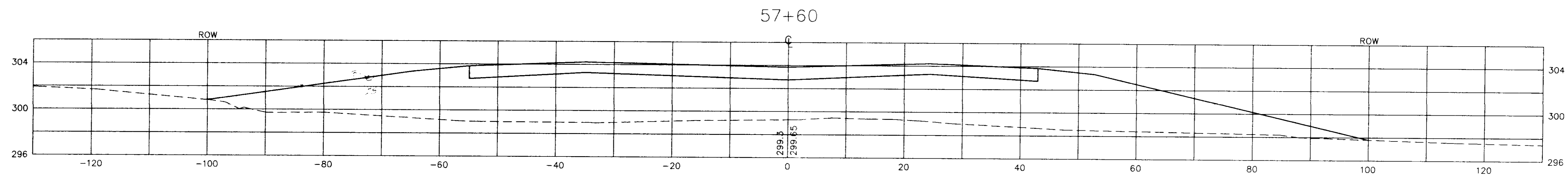


SPELLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ
 1"=5' VERT.
 SHEET NO. 990

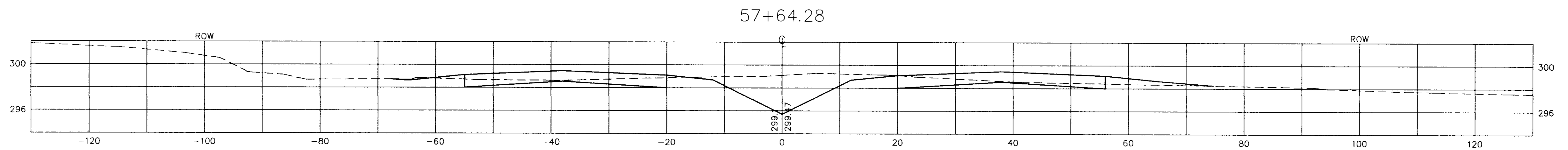
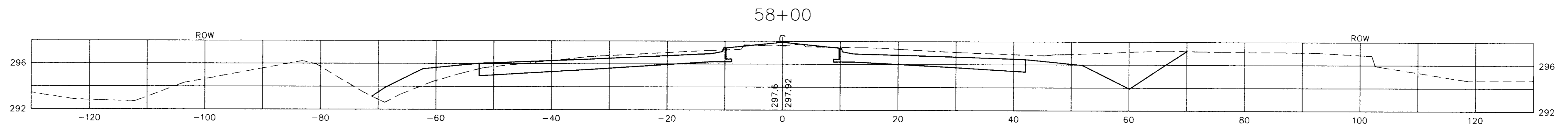
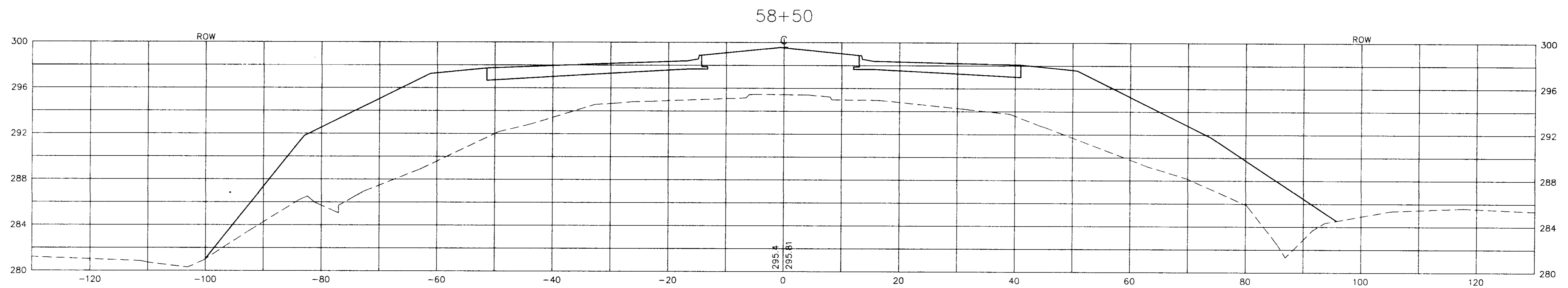
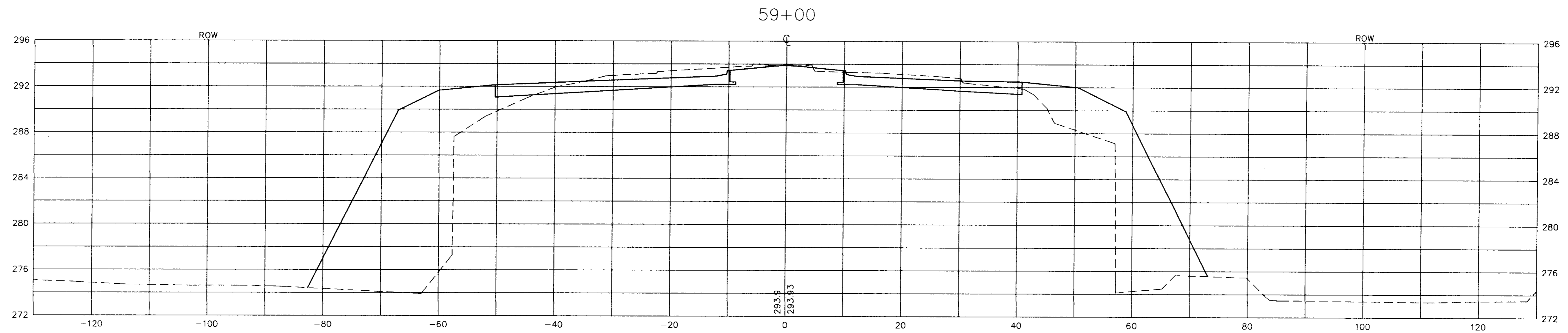


SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ
1"=5' VERT.
SHEET NO. 931

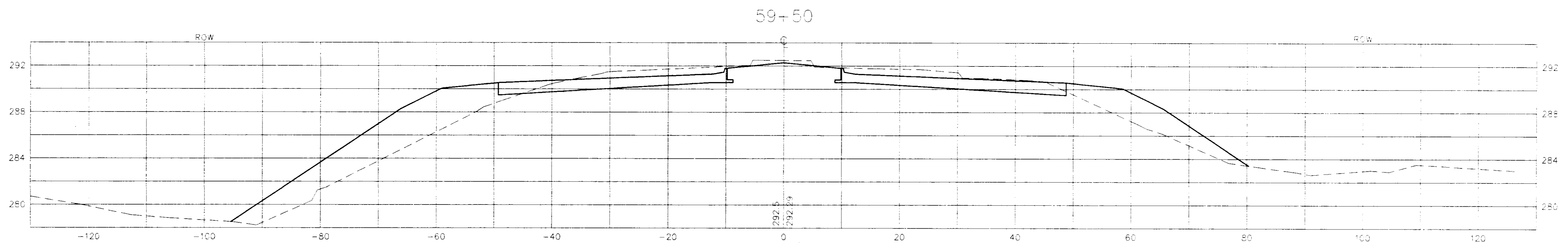
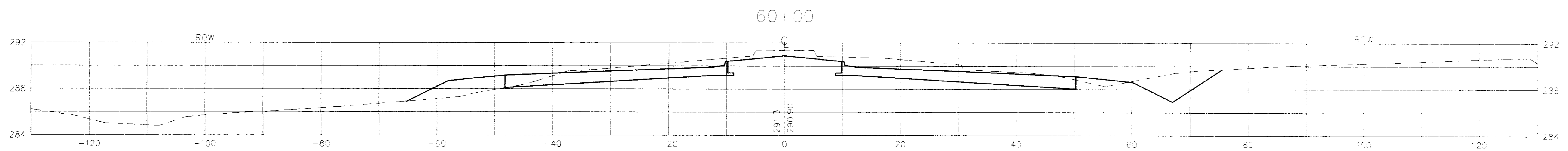
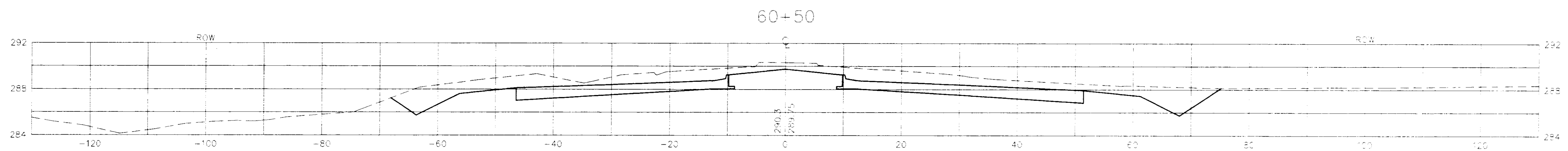
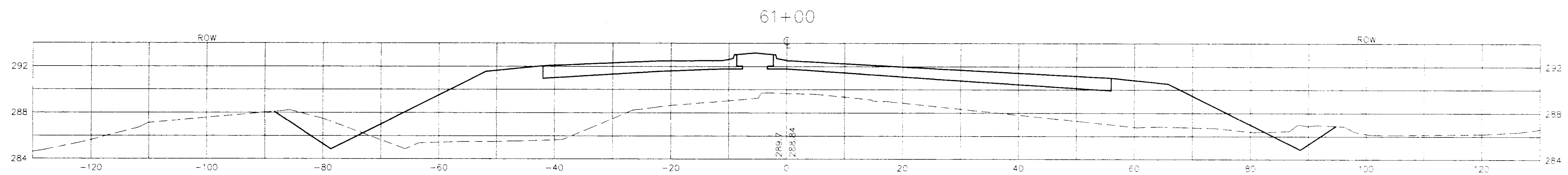
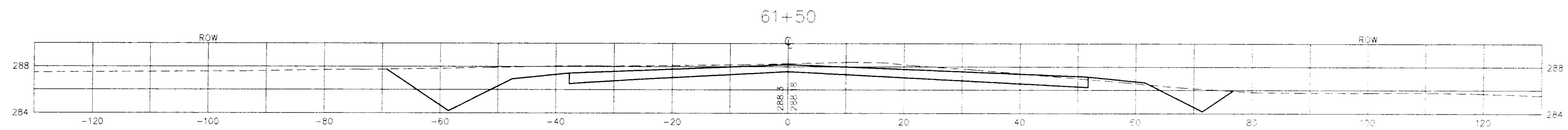




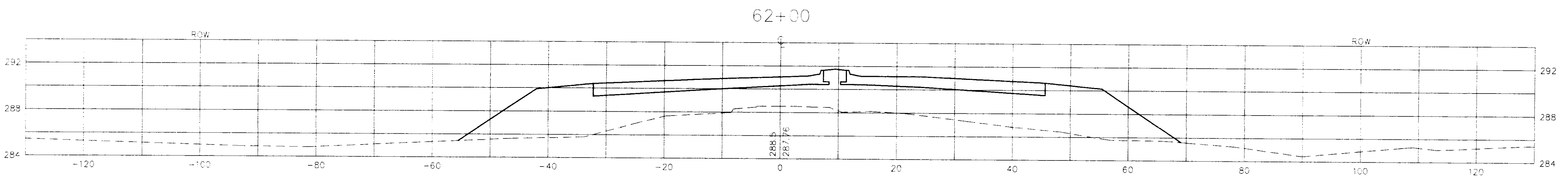
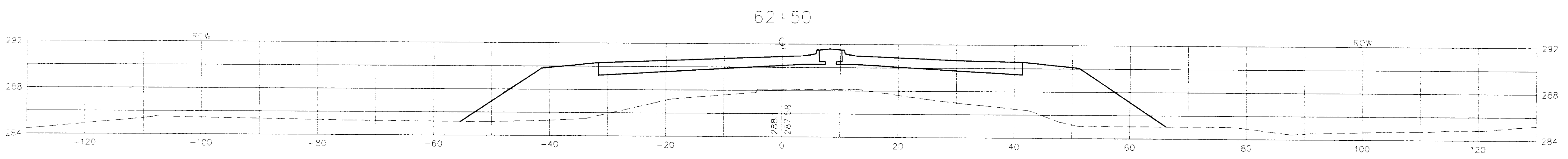
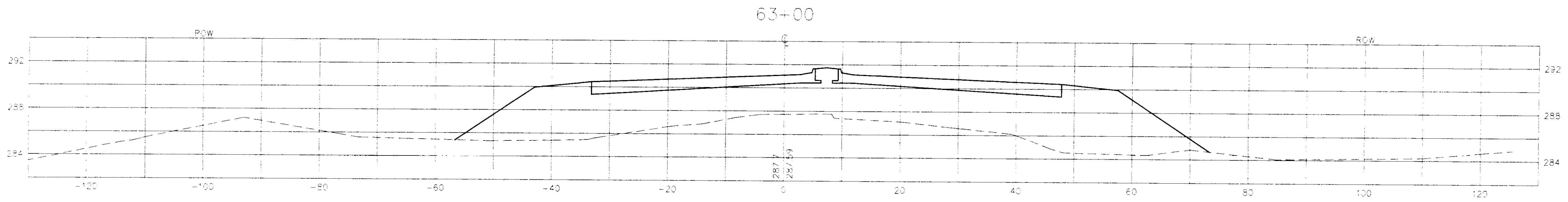
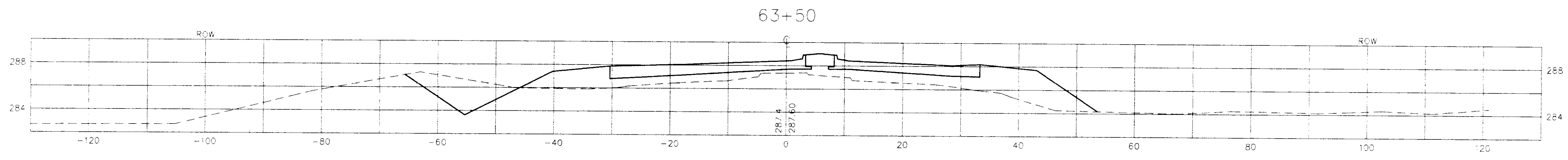
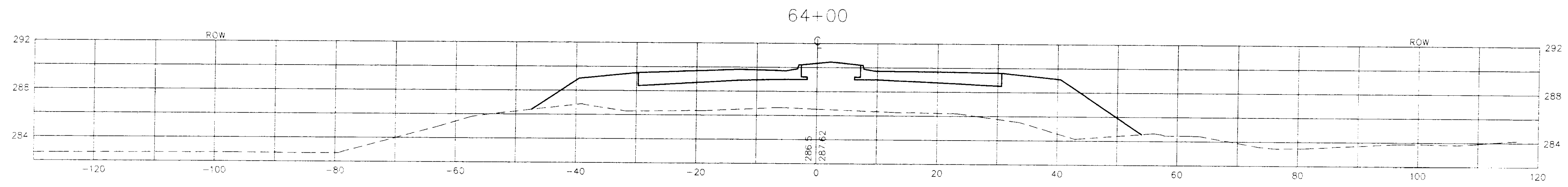
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ
1"=5' VERT
SHEET NO. 7923



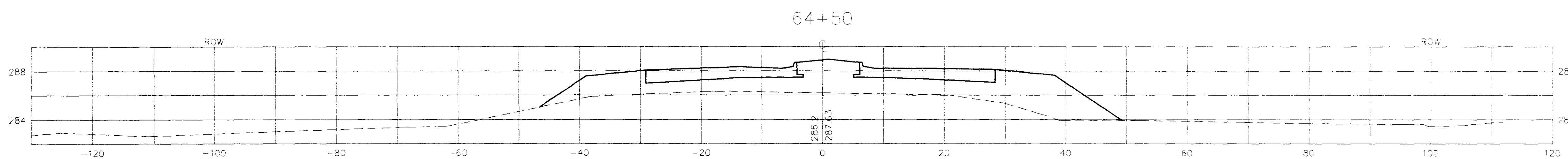
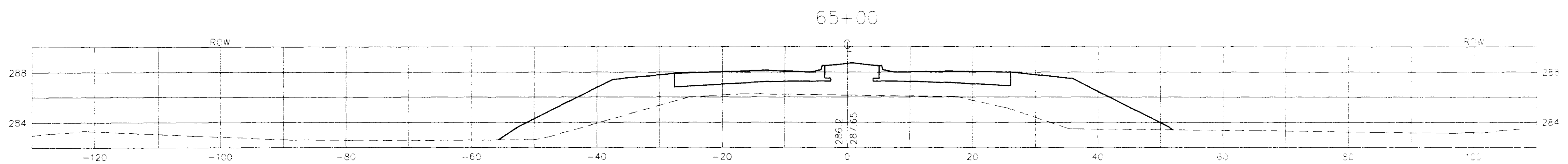
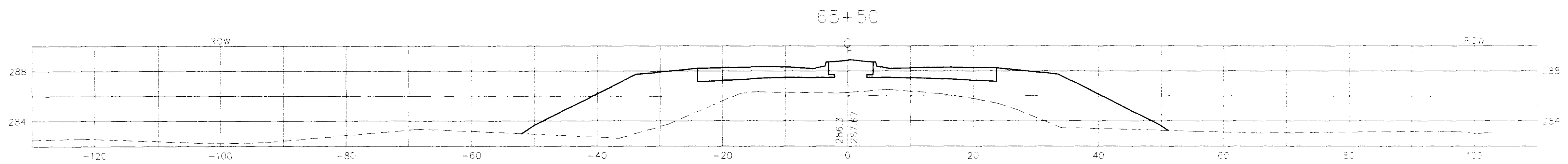
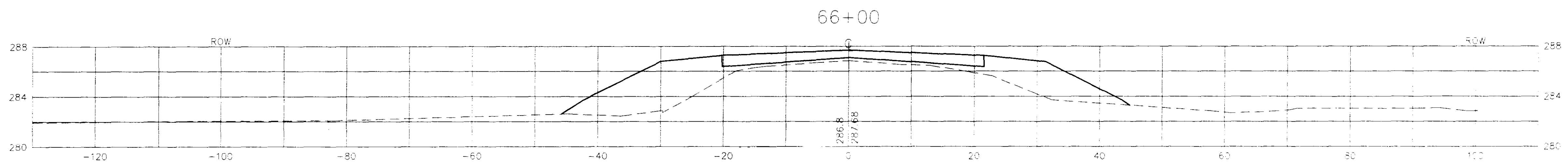
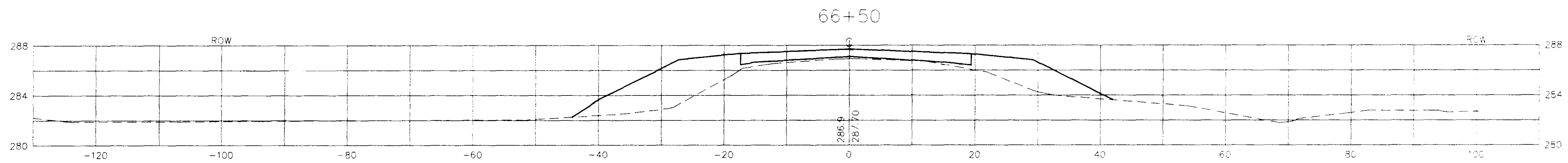
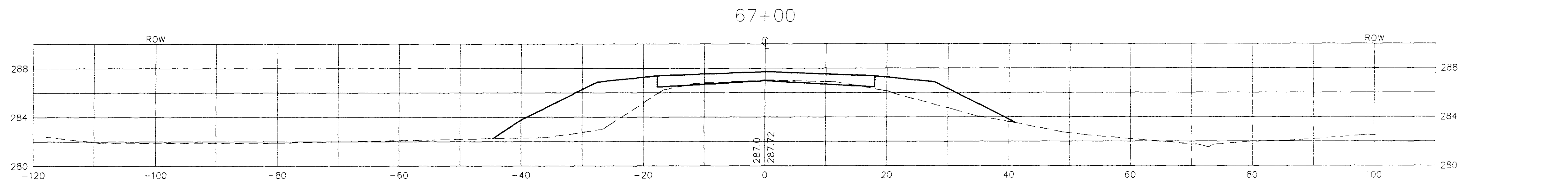
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO. 77 924



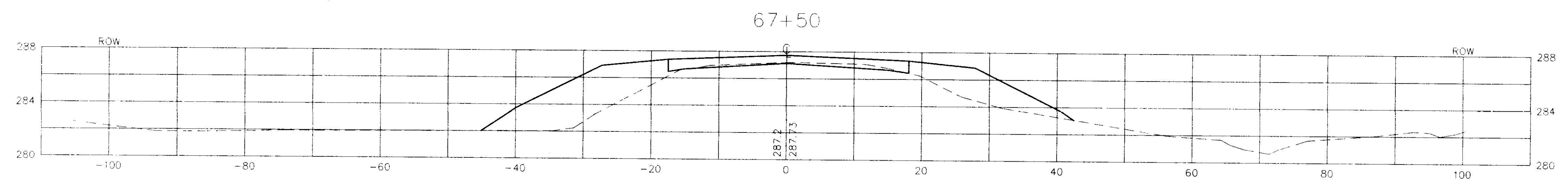
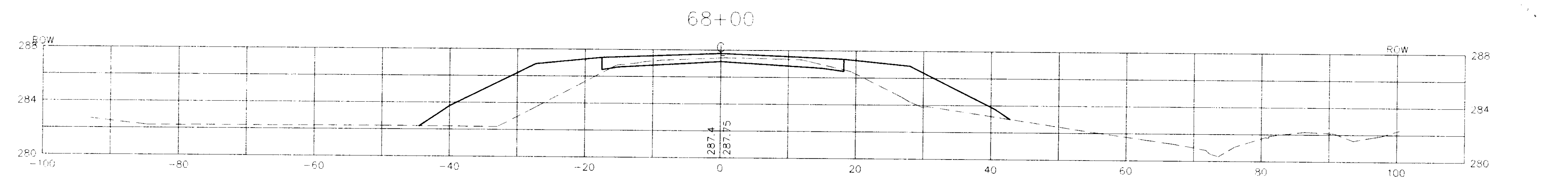
SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=5' VERT.
 SHEET NO.925



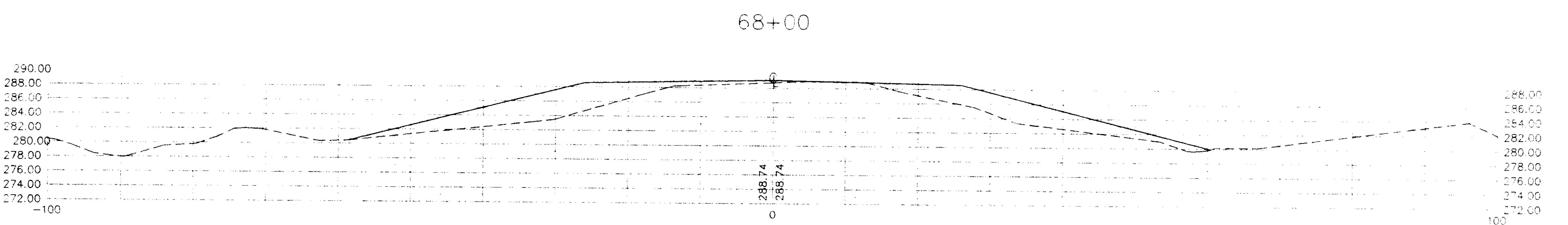
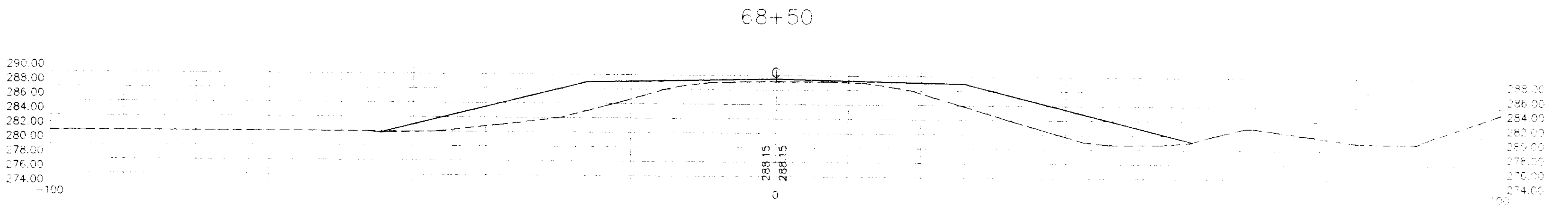
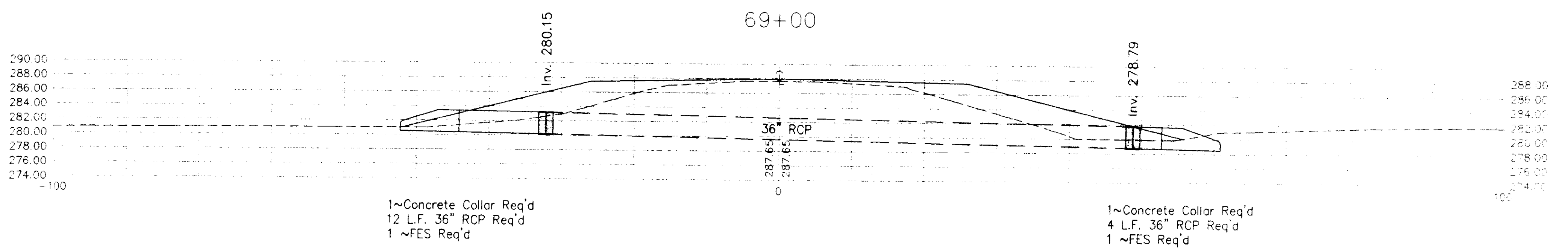
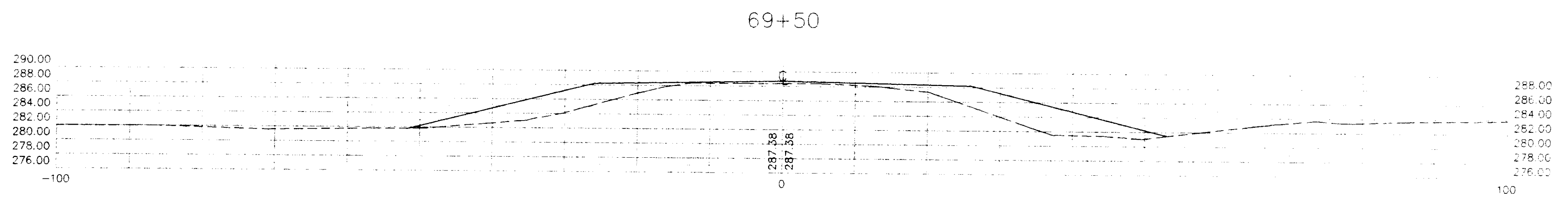
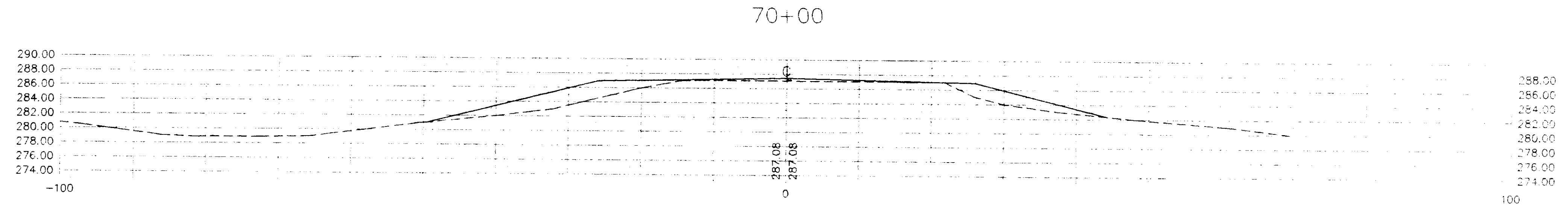
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO.926



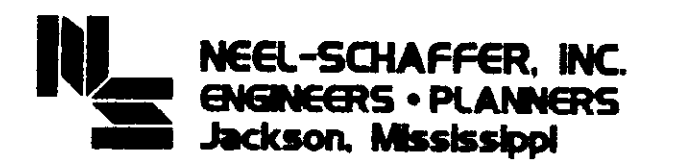
SPILLWAY ROAD
X-SECTIONS
SCALE: 1"=10' HORIZ.
1"=5' VERT.
SHEET NO.927



SPILLWAY ROAD
 X-SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=5' VERT.
 SHEET NO. 928



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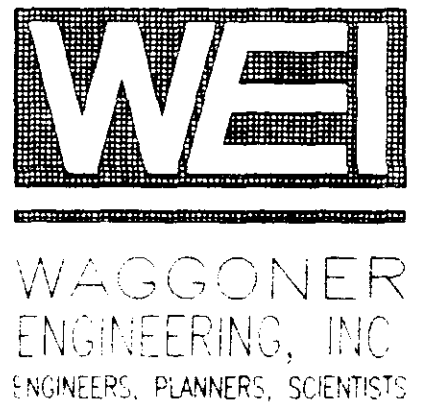
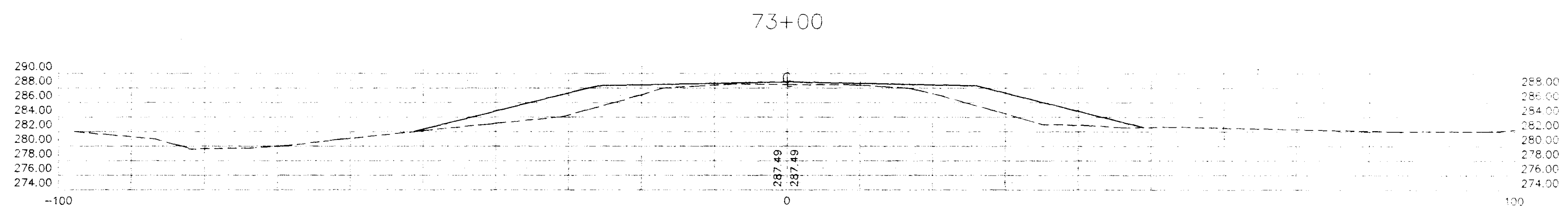
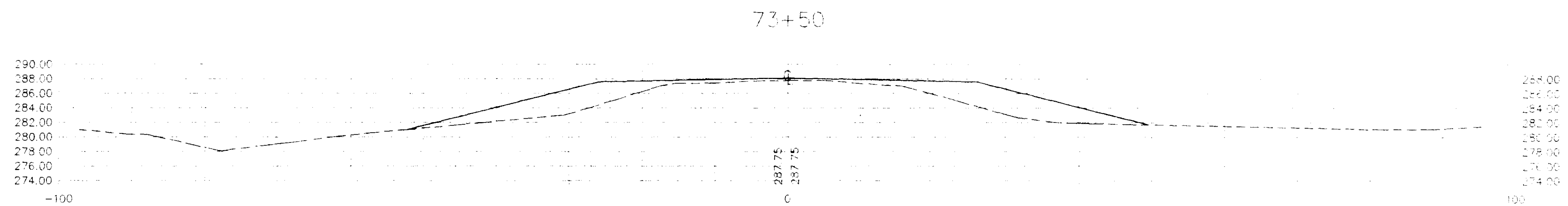
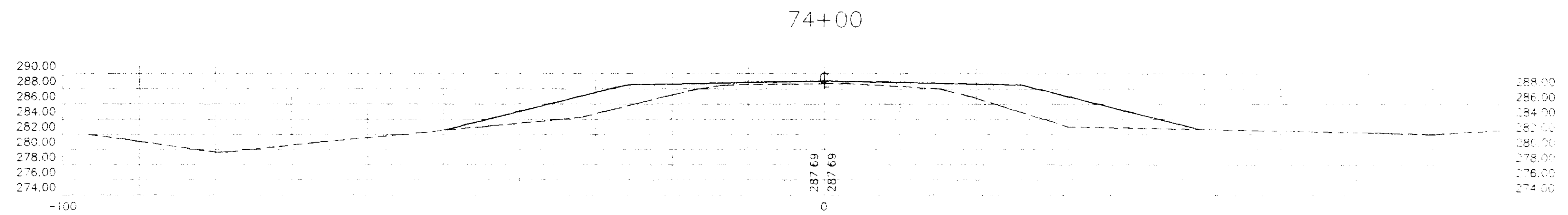
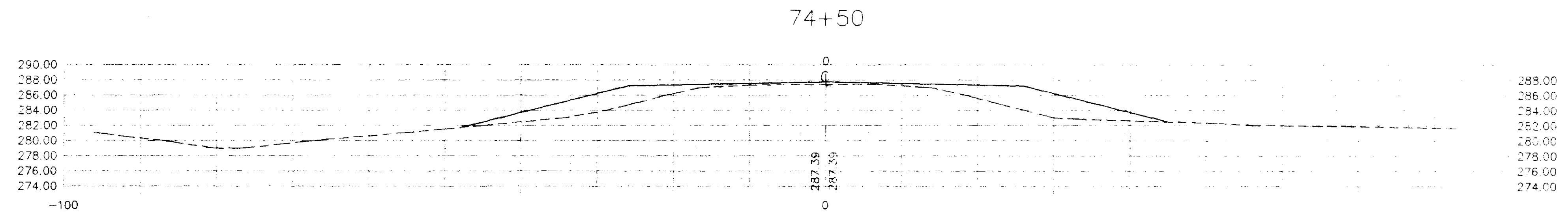
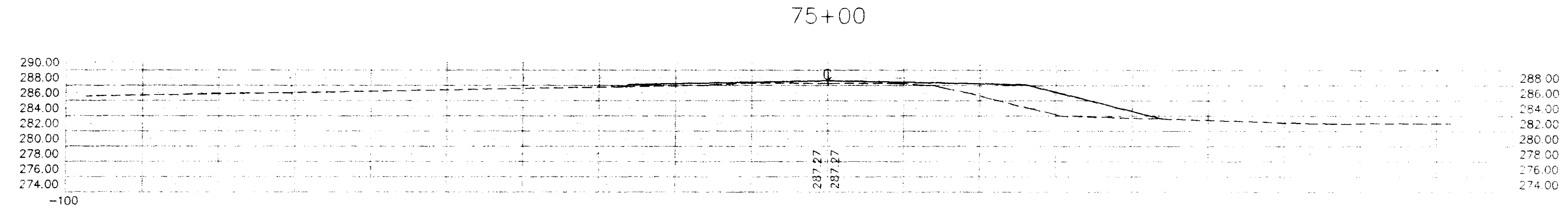


NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Jackson, Mississippi

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISION		CROSS SECTIONS	
DATE		STA. 68+00 TO	
		STA. 70+00	
DESIGNED		PROJECT NO.	STP-6945(1)/
CHECKED		49-6945-00-001-10	
DATE		MADISON COUNTY - RIDGELAND	
FILENAME:		WORKING NUMBER	XS-
DESIGNED		SHEET NUMBER	
CHECKED		934	
DATE		6-96	

CAD REF. 2783-MS VIEW C. PLOT 11-10

I:\TRAFFIC\ROBERT\2783-02\2783-MS Mod May 21 09 26 32 1997 Billy B.

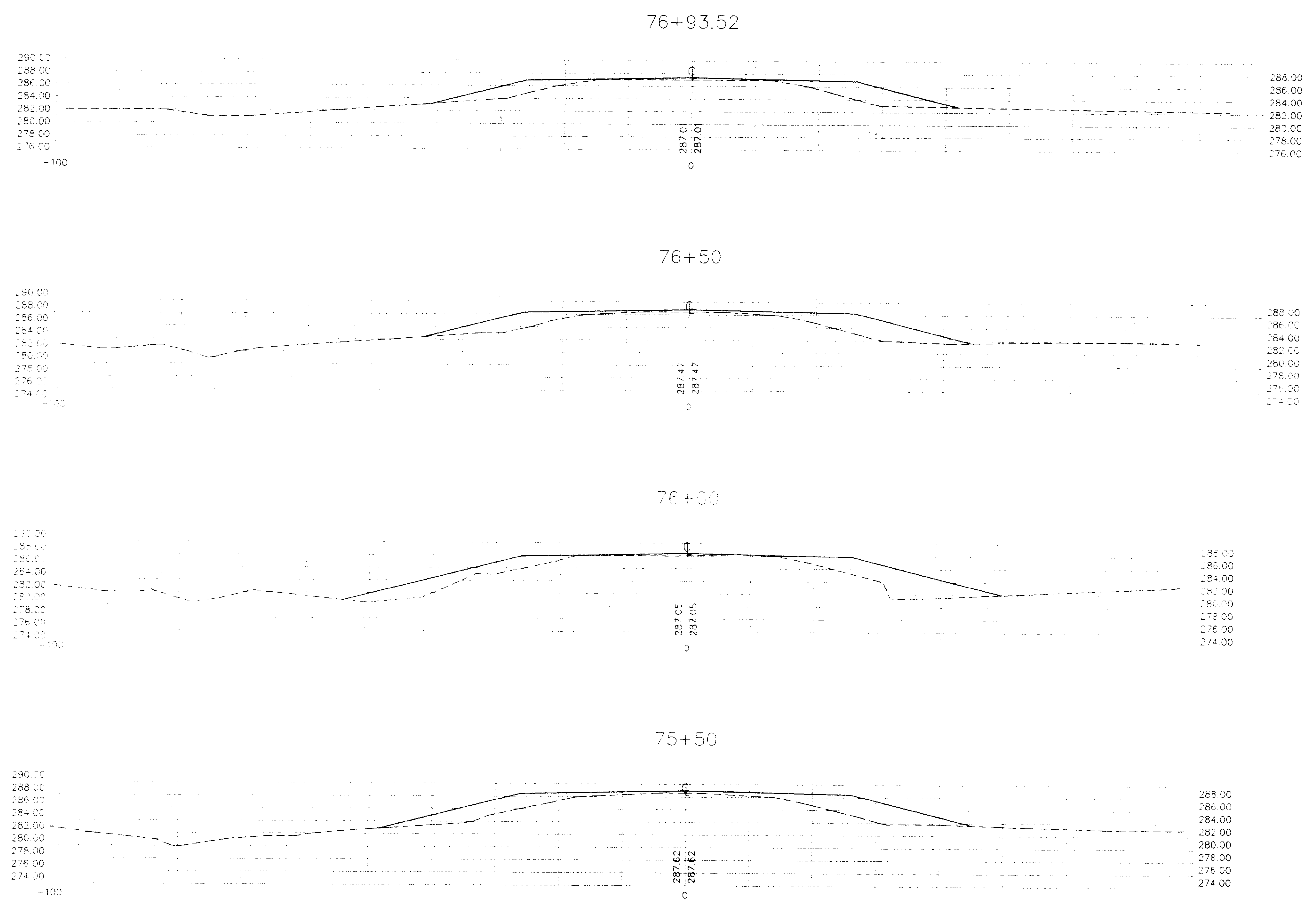


REVISION		BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
				CROSS SECTIONS	
				STA. 73+00 TO	
				STA. 75+00	
				PROJECT NO. STP-6945(1)/	
				49-6945-00-001-10	
				MADISON COUNTY - RIDGELAND	
				WORKING NUMBER	XS-
				FILENAME:	SHEET NUMBER
				DESIGNED RR.W.	CHECKED MAB. DATE 6-96
					451

F:\WORK\PROJECTS\763-02\263.X5 P-11 MAY 9 13 03:01 1997 B.111x B

CAD REF: 763-02.X5 NEW.DT PLOT 11-10

STATE	PROJECT NO.
MISS.	STP-6945(1)/ 49-6945-00-001-10



WAGGONER
ENGINEERING, INC.
ENGINEERS, PLANNERS, SCIENTISTS

NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Jackson, Mississippi

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS	
STA. 75+50 TO	
STA. 76+93.52	
PROJECT NO.	STP-6945(1)/ 49-6945-00-001-10
MADISON COUNTY - RIDGELAND	
WORKING NUMBER	XS-
SHEET NUMBER	95a
FILE NAME:	DESIGNED RRW, CHECKED MGB, DATE 6-96

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CAD REF: 2/93.XS VIEW T1, PLOT: 1/10