

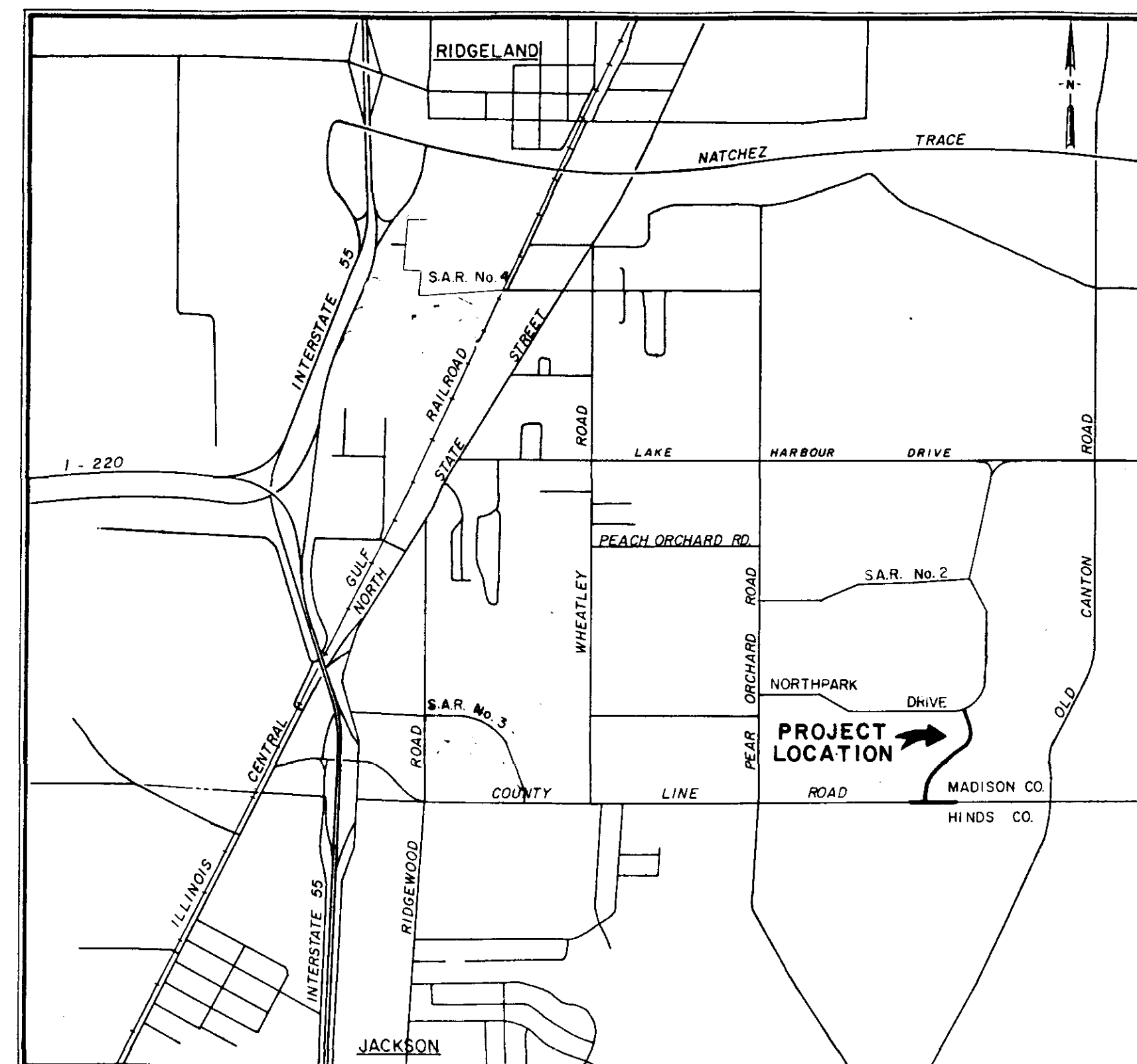
CITY OF RIDGELAND, MISSISSIPPI

SPECIAL ASSESSMENT IMPROVEMENTS PROJECT NO. 5 STREET & UTILITY IMPROVEMENTS

Mayor:
Hite B. Wolcott

Mayor Pro Tem:
Hilda Boyd

City Attorney:
Milton Case



Aldermen:
Al Bible
Hilda Boyd
Harvey Carr, Jr.
Gene McGee
Gilbert Sollek

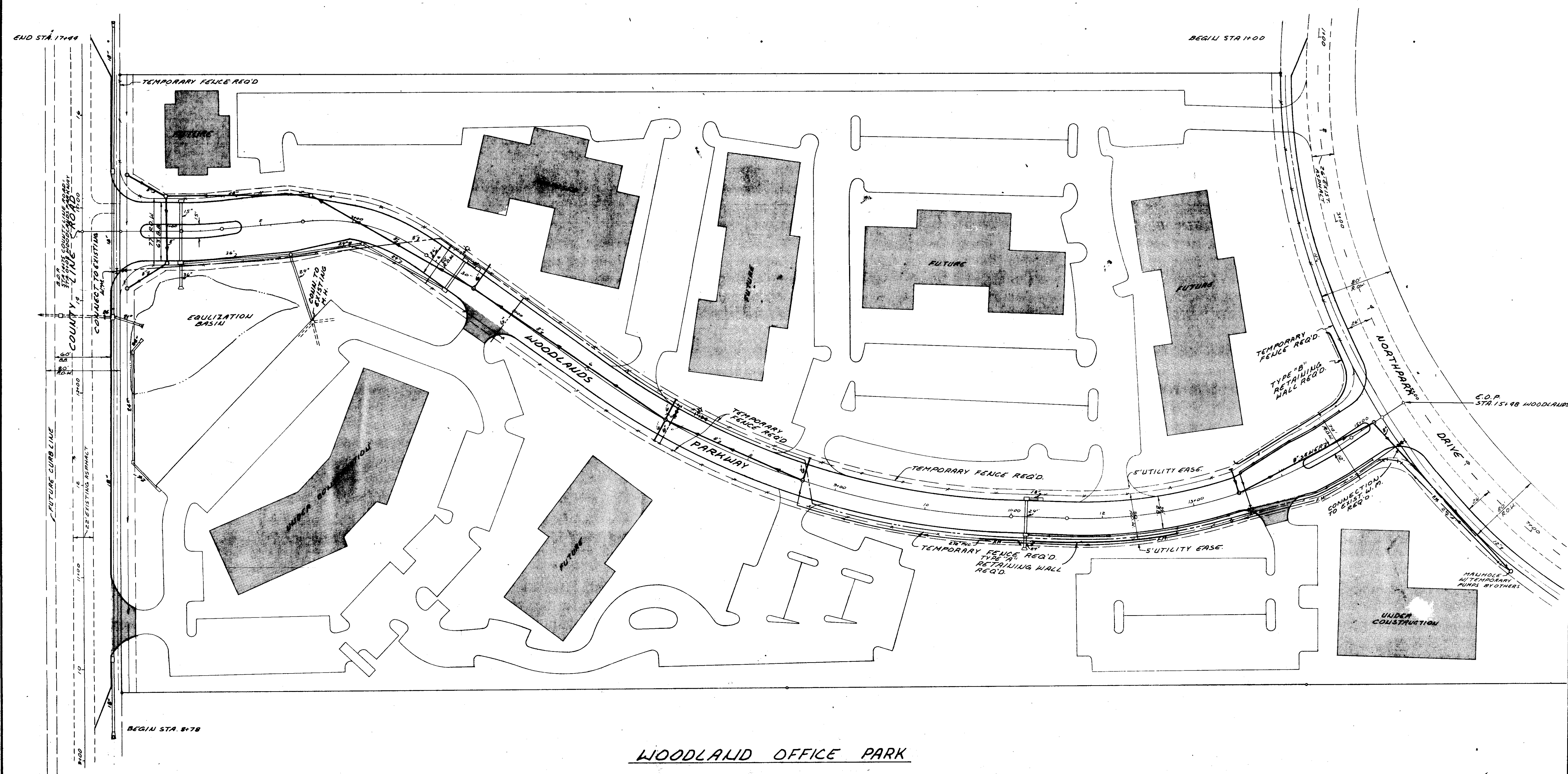
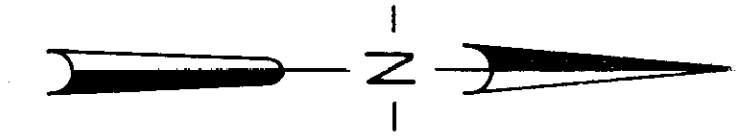
Public Works Director
Horace Ross

FEBRUARY 1987

WAGGONER ENGINEERING INC.
Consulting Engineers
Jackson / Brandon, Mississippi

SHEET NO. 1 - PROJECT LAYOUT
2-7 - PLAN / PROFILE
8 - TYPICAL SECTIONS
9 - INLET DETAILS
10 - PAVEMENT MARKING PLAN
11 - TRAFFIC CONTROL PLAN
12-13 - STANDARD DETAILS

PWP-01913

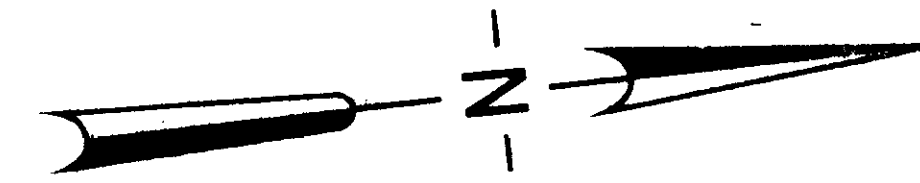


WOODLAND OFFICE PARK

CITY OF RIDGELAND		
PROJECT LAYOUT		
WAGGONER ENGINEERING INC. Consulting Engineers - Jackson / Brandon, Ms.		
DRAWN BY: H.D.C.	DATE: 4-29-87	SHEET NO.
CHECKED BY: C.H.W.	SCALE: 1" = 50'	1 OF 1
APPROVED BY: J.A.W.		

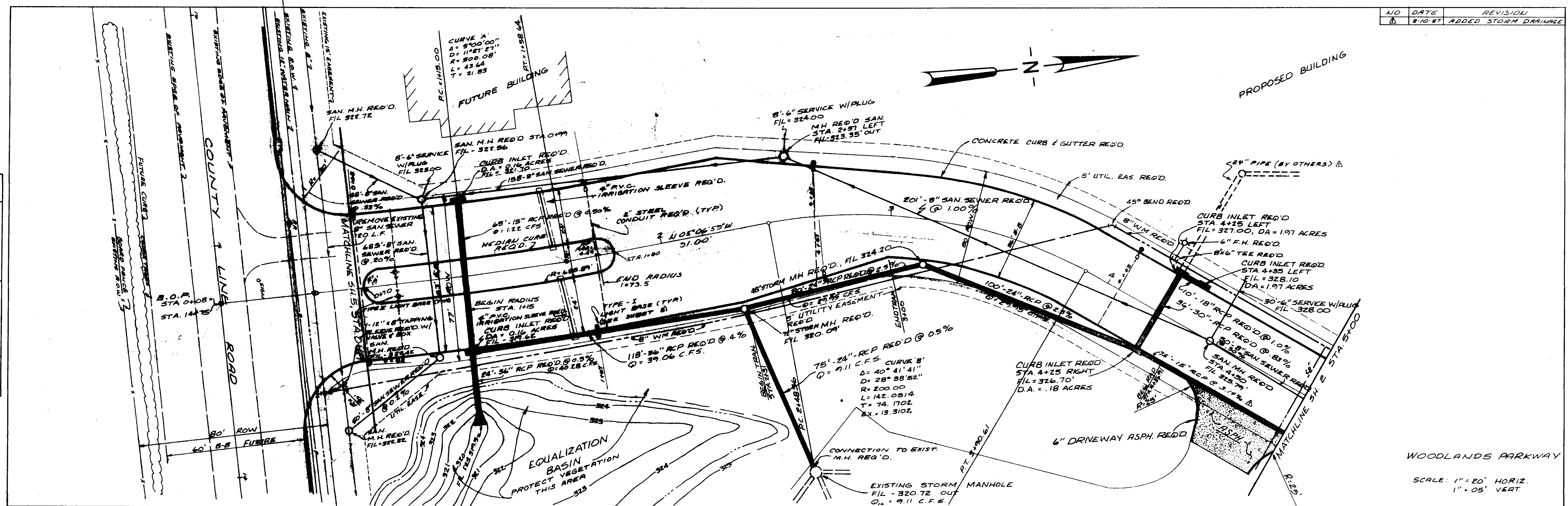
SAR #5

NO	DATE	REVISION
1	8-10-87	ADDED STORM DRAINAGE



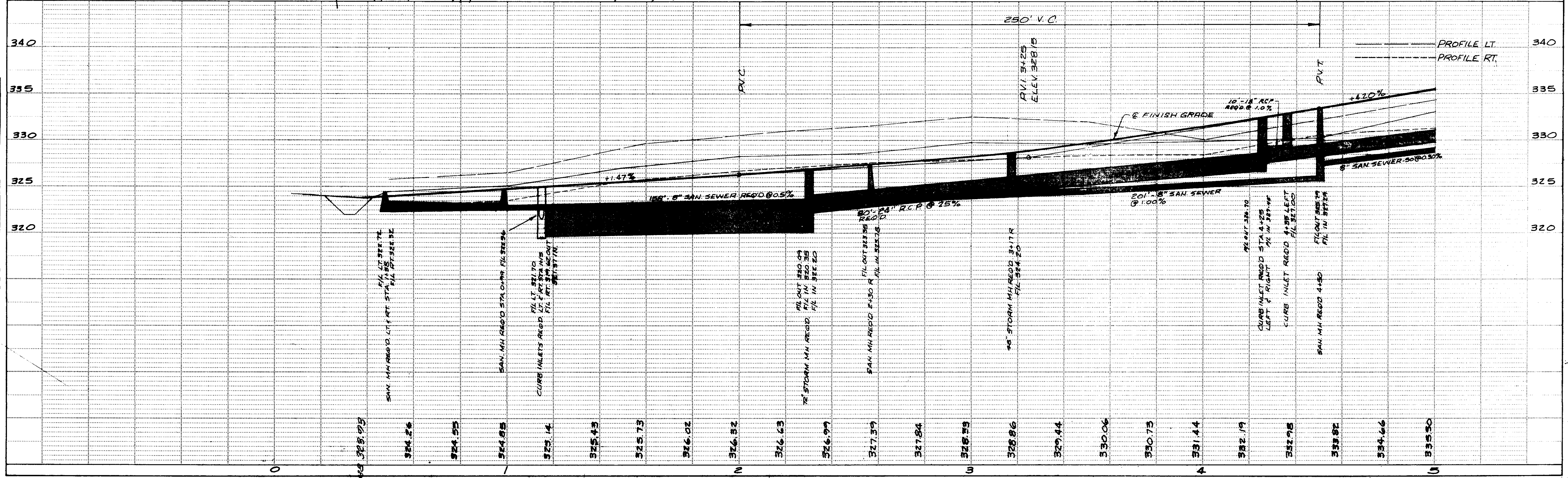
DATE	BY

SURVEYED: _____
 ALIGNMENT CHECKED: _____
 GRADES CHECKED: _____
 RT. OF WAY CHECKED: _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS CHECKED: _____



DATE	BY

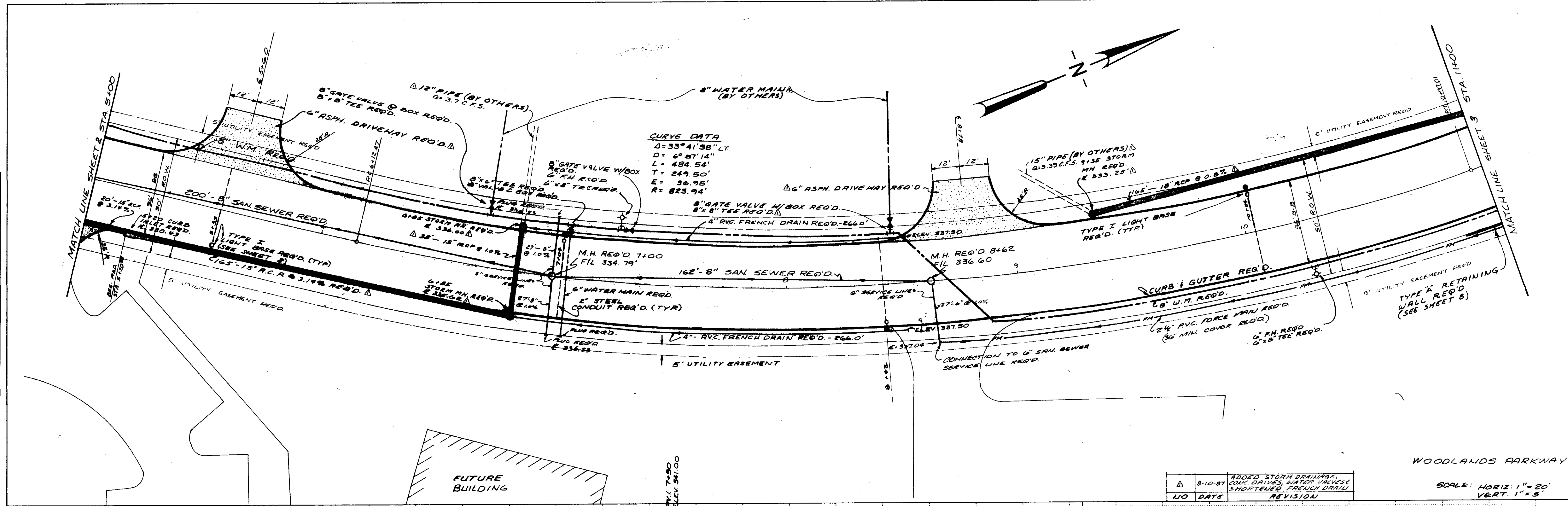
SURVEYED: _____
 GRADES CHECKED: _____
 B. M. NOTED: _____
 STRUCTURE NOTATIONS CHECKED: _____
 NOTE BOOK NO. _____



HIGHWAY FEDERAL AID SHEET
 PLATE 1-SINGLE PLAN AND PROFILE-FULL DOT
 W.B. EDWARDS
 PRINTED IN U.S.A.

DATE	
BY	
NO.	
PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK	
NO.	

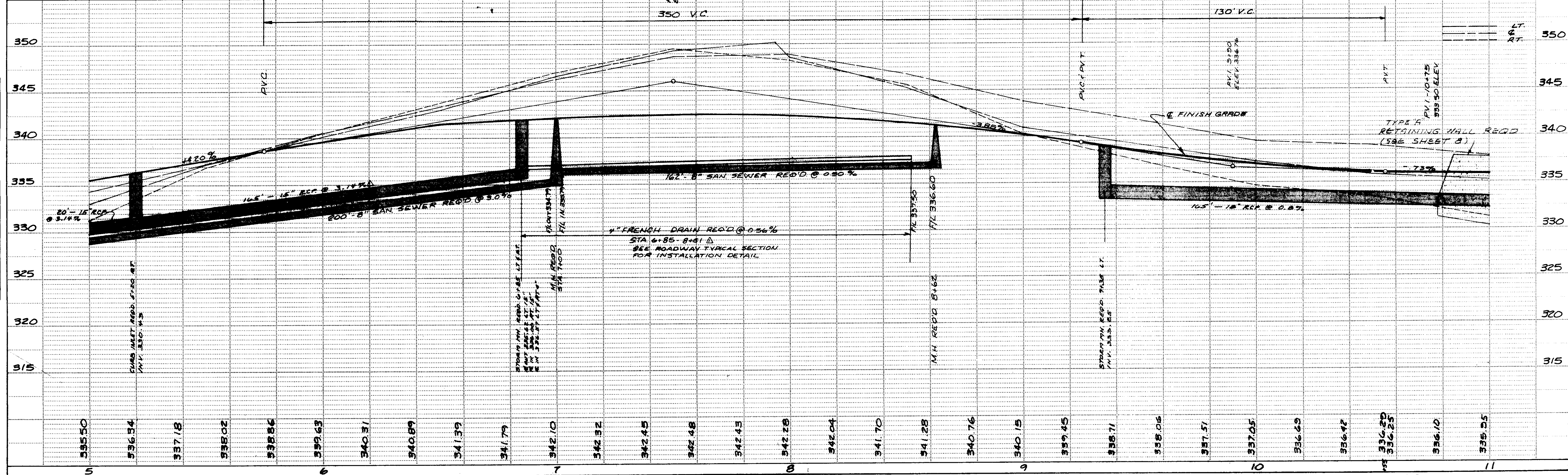
DATE	
BY	
NO.	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO.	



CURVE DATA
 $\Delta = 33^\circ 41' 58''$ LT
 $D = 6^\circ 57' 14''$
 $L = 484.54'$
 $T = 249.50'$
 $E = 36.95'$
 $R = 823.94'$

NO	DATE	REVISION
1	8-10-87	ADDED STORM DRAINAGE, CONC. DRAVES, WATER VALVES, SHORTENED FRENCH DRAIN

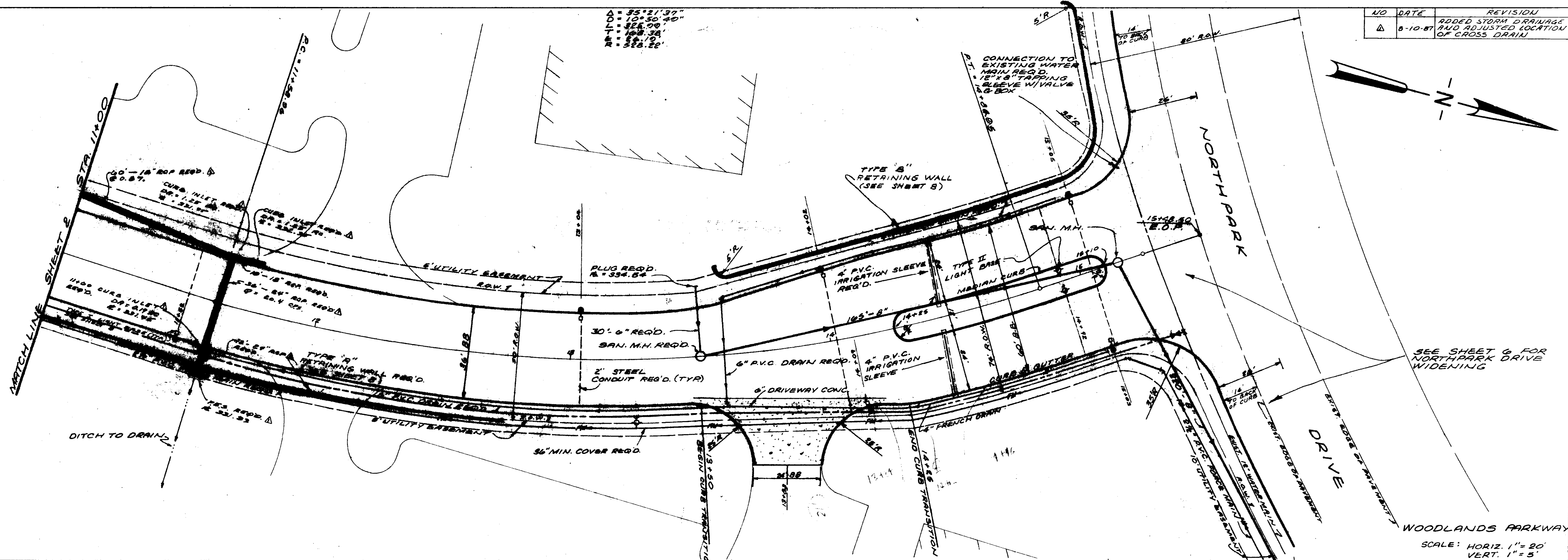
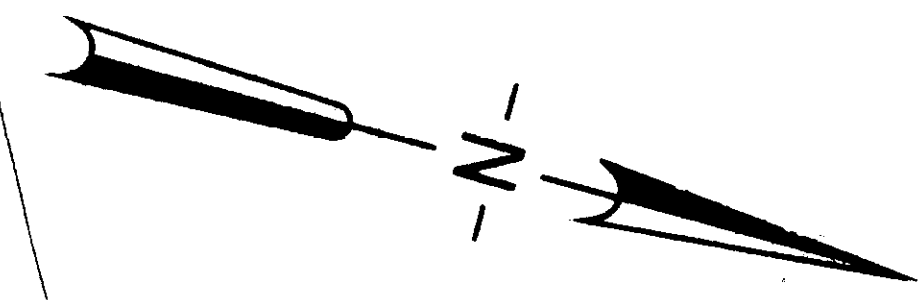
WOODLANDS PARKWAY
 SCALE: HORIZ: 1" = 20'
 VERT: 1" = 5'



HIGHWAY FEDERAL AID SHEET
 PLATE 1-SINGLE PLAN AND PROFILE-FULL DOT
 PRINTED IN U.S.A.

WAGGONER ENGINEERING INC.
 Consulting Engineers - Jackson / Brandon, MS.
 SPECIAL ASSESSMENT IMPROVEMENT # 5

NO	DATE	REVISION
1	8-10-87	ADDED STORM DRAINAGE AND ADJUSTED LOCATION OF CROSS DRAIN



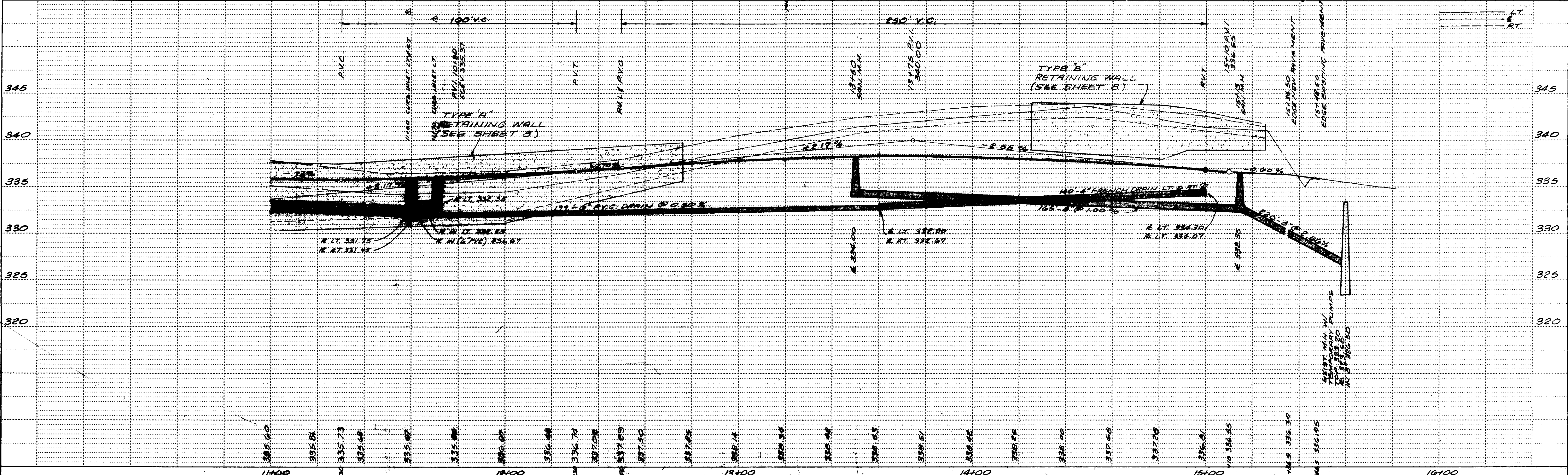
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'

DATE	BY

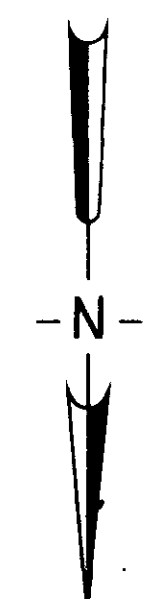
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK NO.

DATE	BY

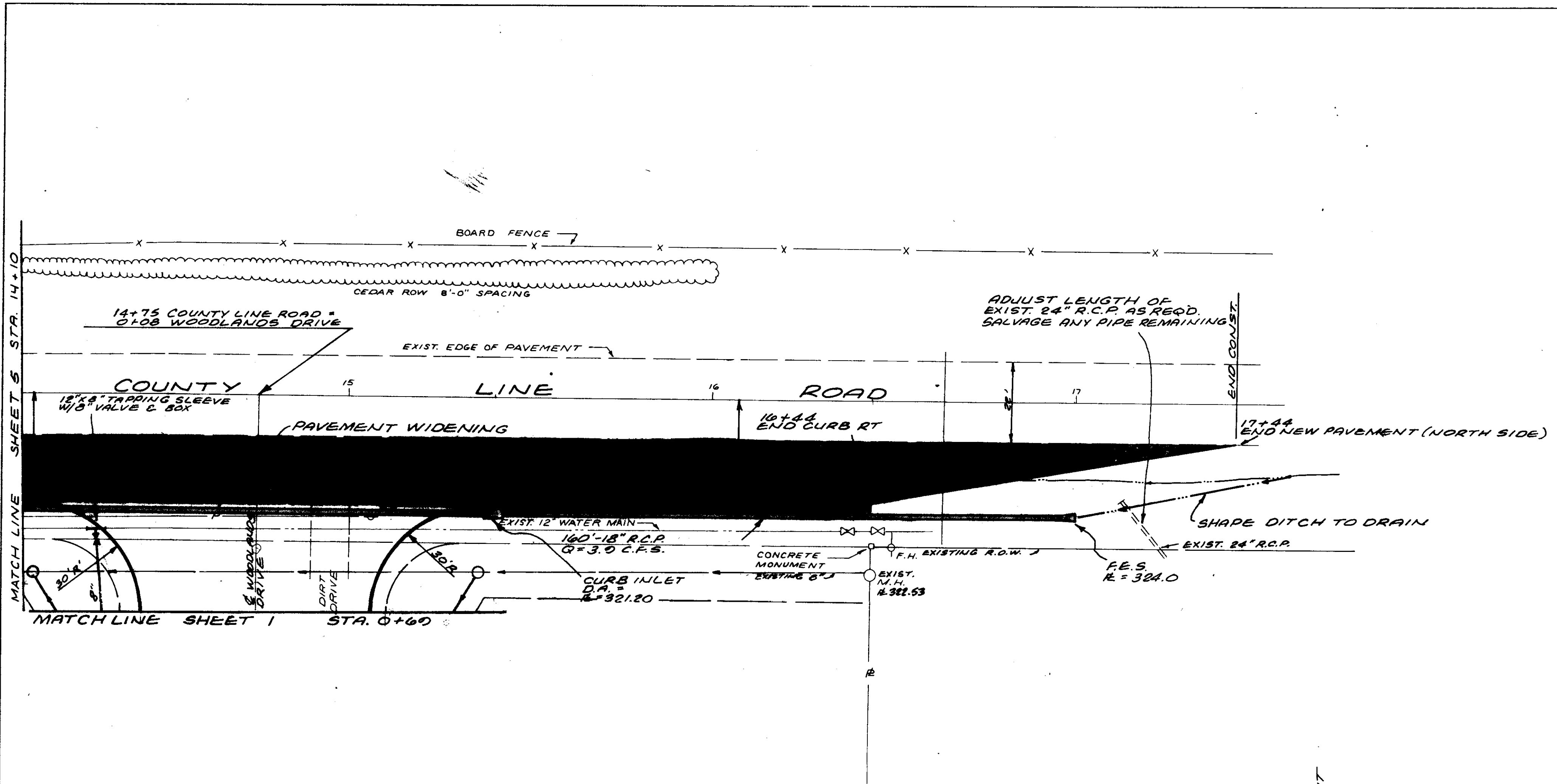
PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK NO.



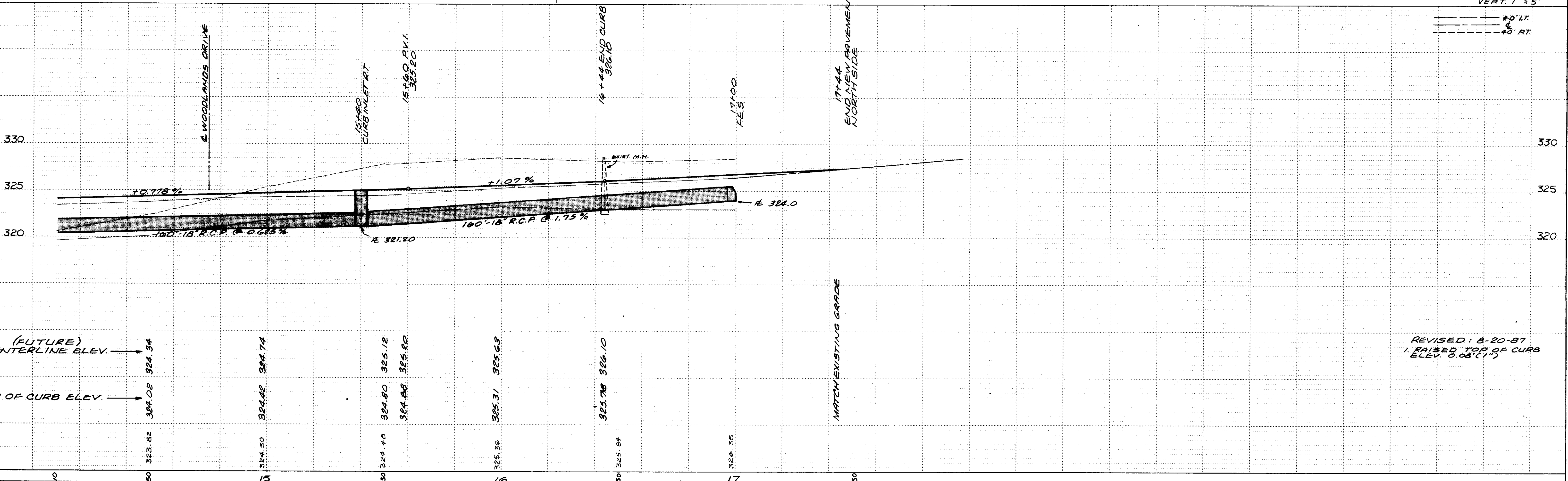
HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL DOT
PRINTED IN U.S.A.



DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
GRADES CHECKED	
RT OF WAY CHECKED	
ROUTE BOOK NO.	



DATE	
BY	
PROFILE	
GRADES	
PLOTTED	
GRADES CHECKED	
B.M.'S NOTED	
STRUCTURE NOTATIONS CHECKED	
ROUTE BOOK NO.	



SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5'

--- 40' LT.
 --- 40' RT.

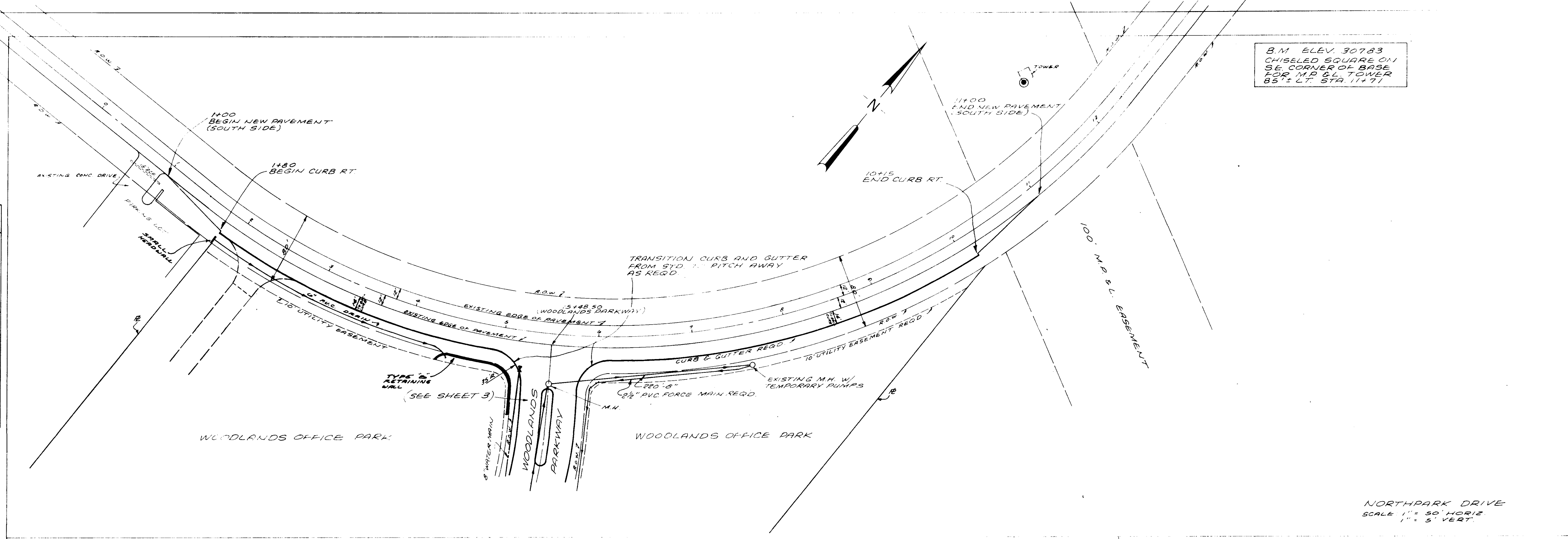
REVISED: 8-20-87
 1. RAISED TOP OF CURB ELEV. 0.08' (1")

PLATE 1-SINGLE PLAN AND PROFILE FULL DOT
 PRINTED IN U.S.A.

WAGGONER ENGINEERING INC.
 Consulting Engineers - Jackson / Brandon, MS.
 SPECIAL ASSESSMENT IMPROVEMENT # 5

B.M. ELEV. 30783
 CHISELED SQUARE ON
 SE. CORNER OF BASE
 FOR M.P. & L. TOWER
 85'± LT. STA. 11+71

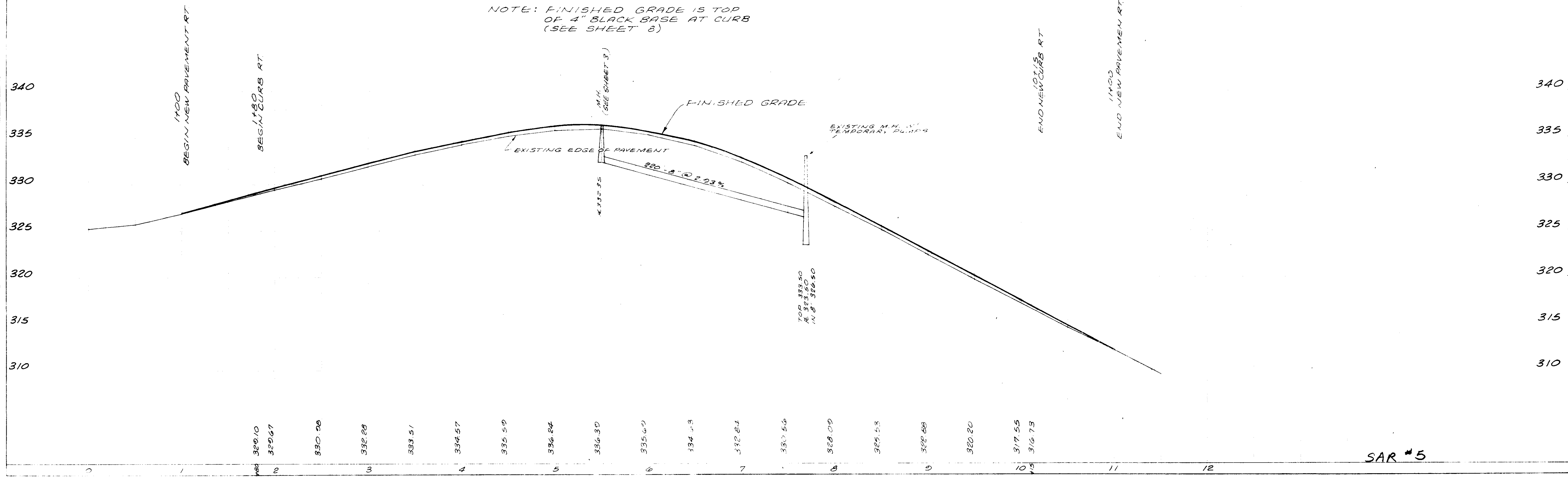
PLAN
 CHECKED
 DATE
 NO.



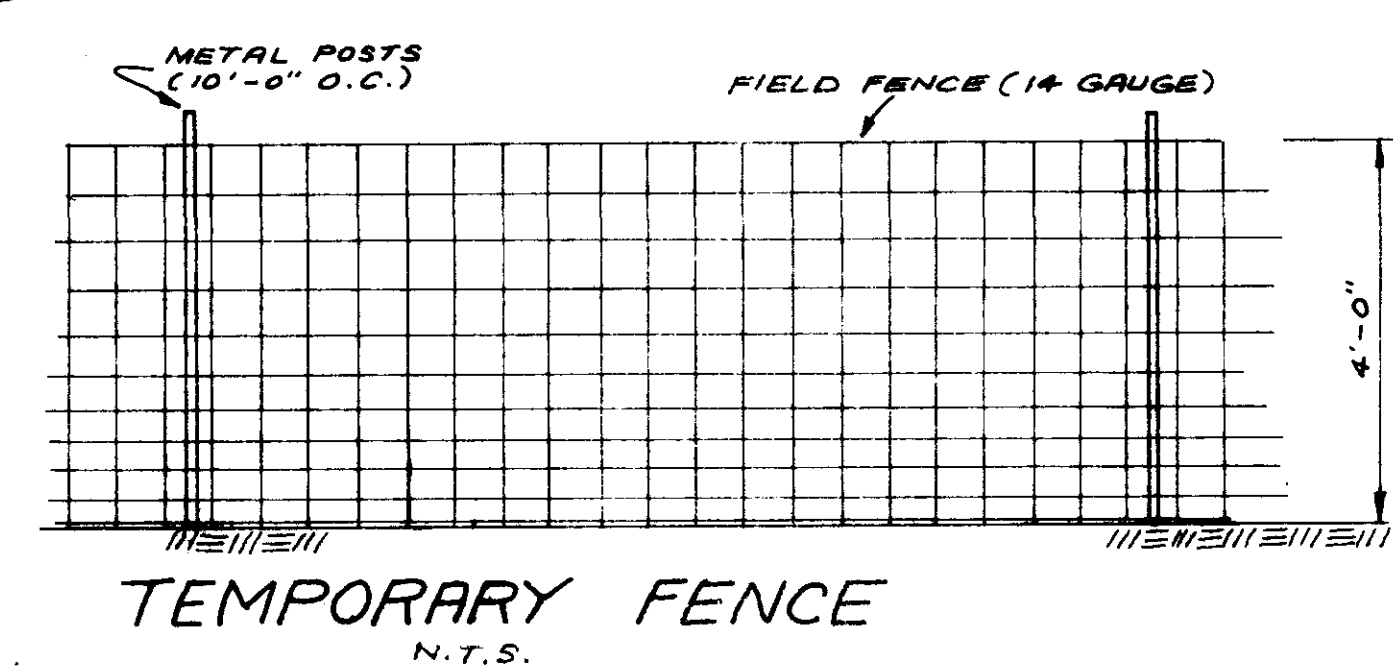
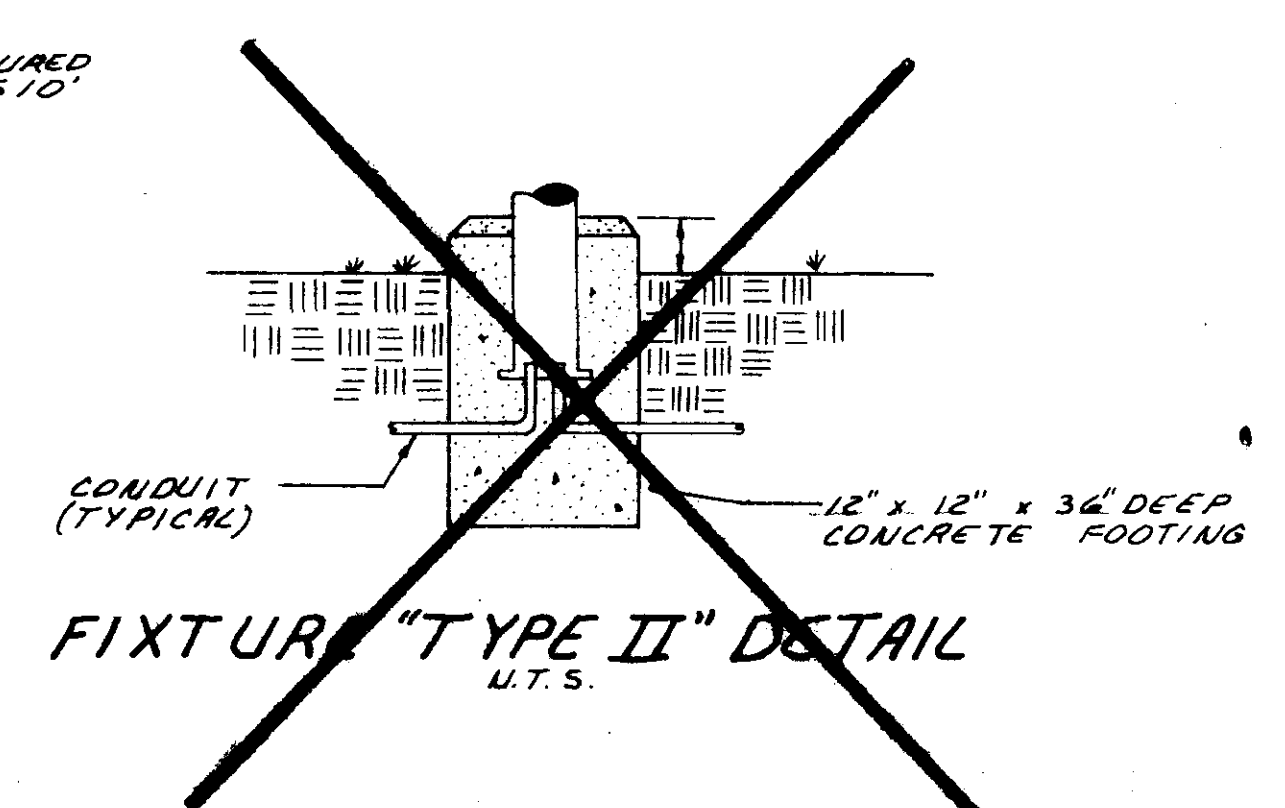
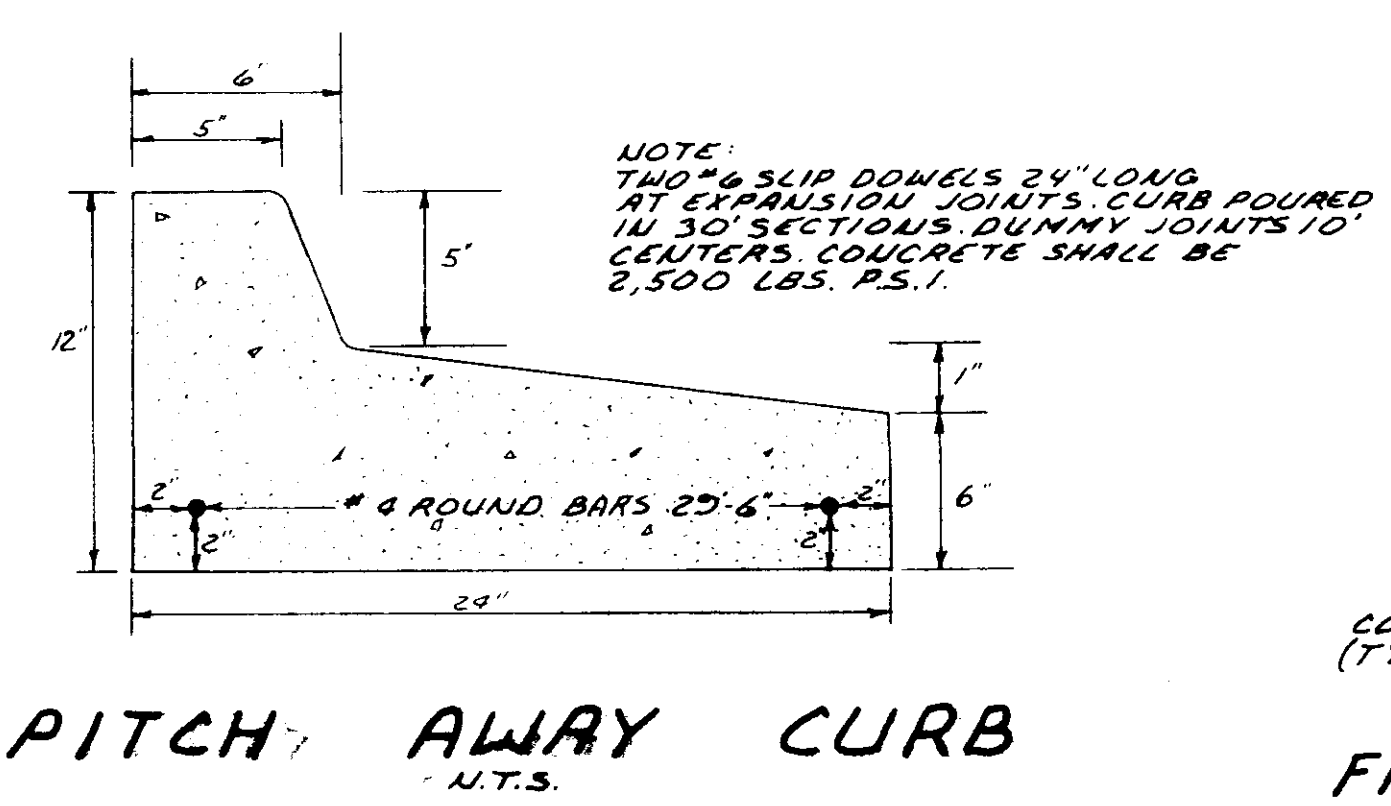
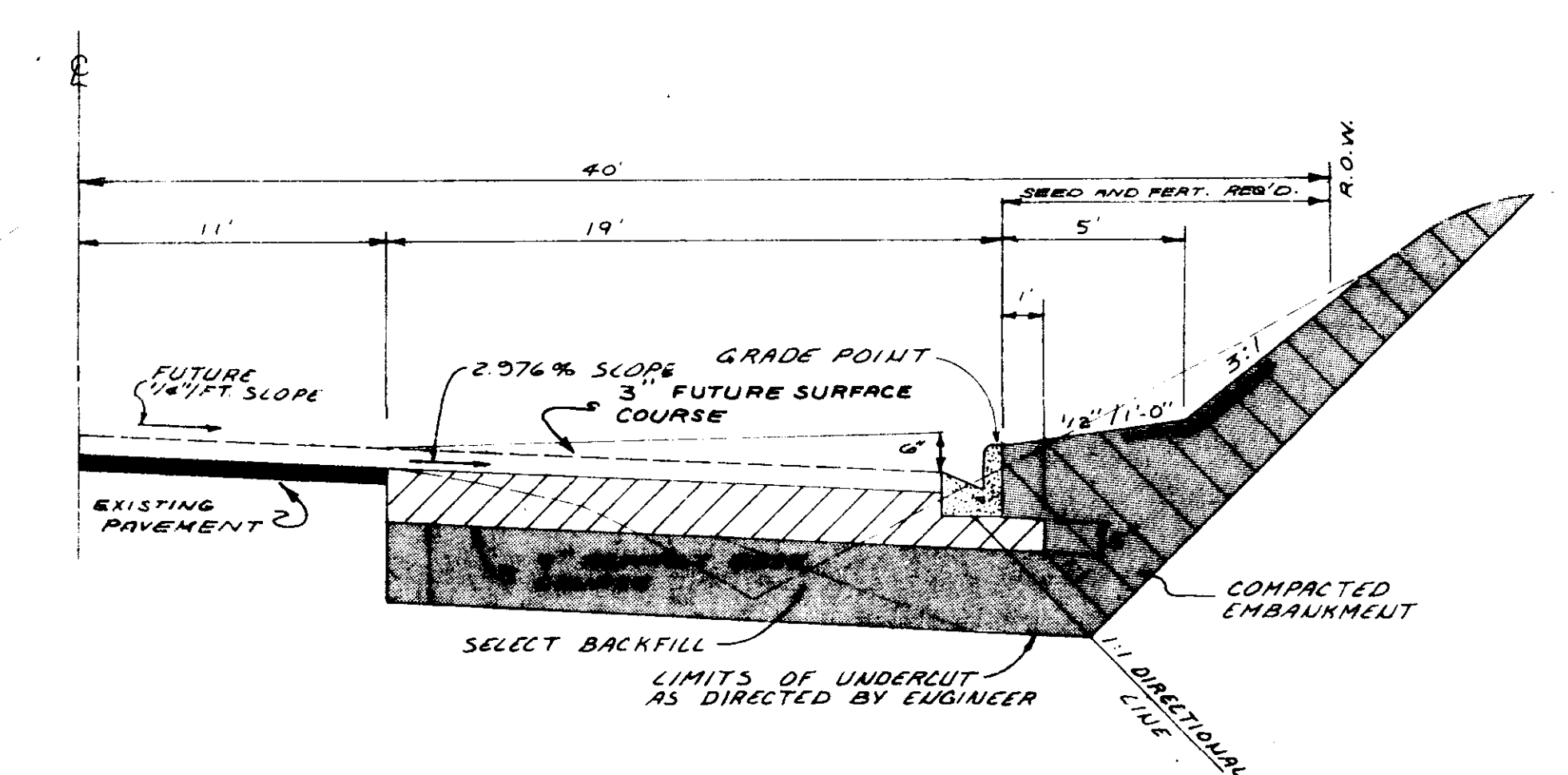
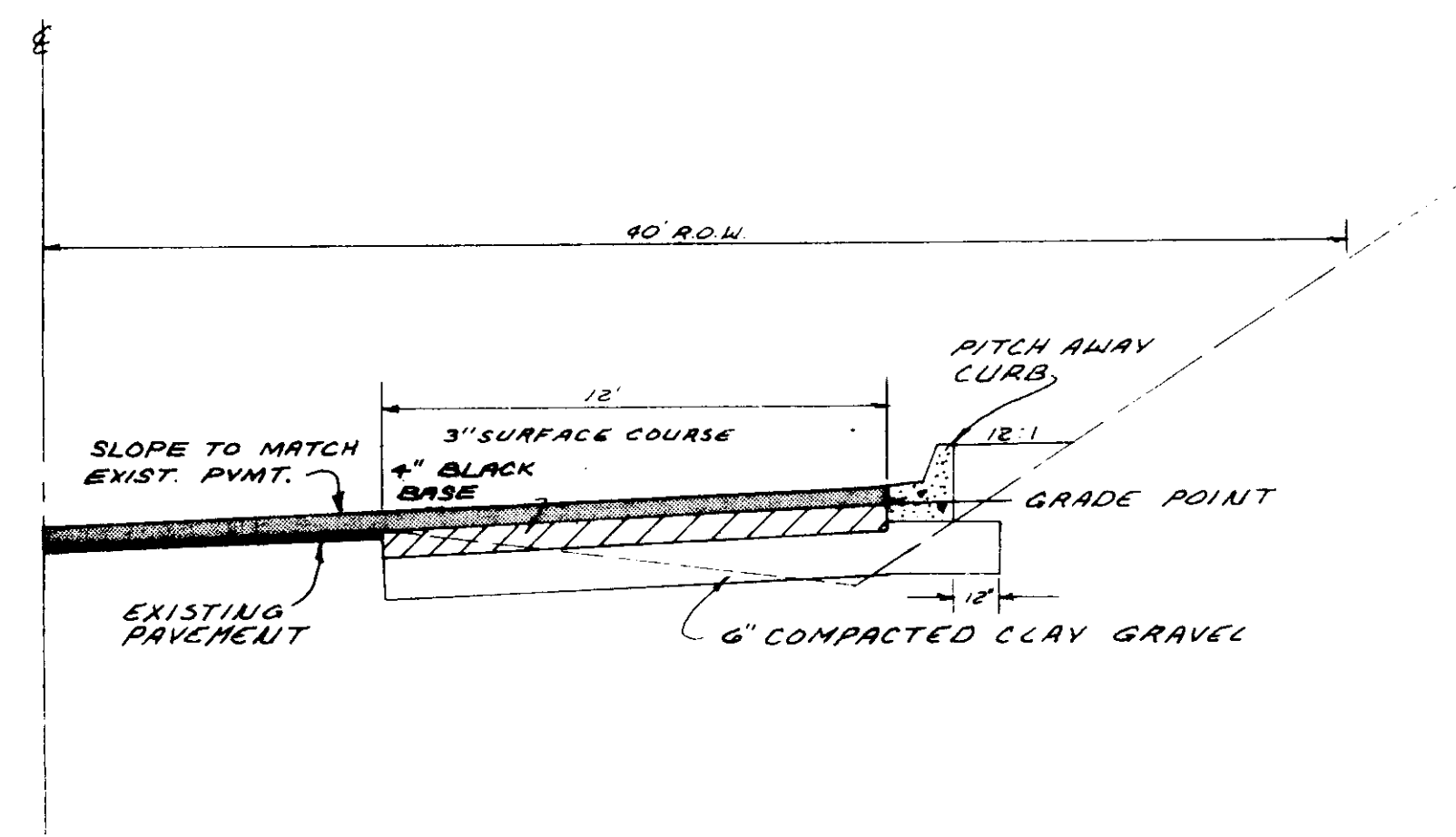
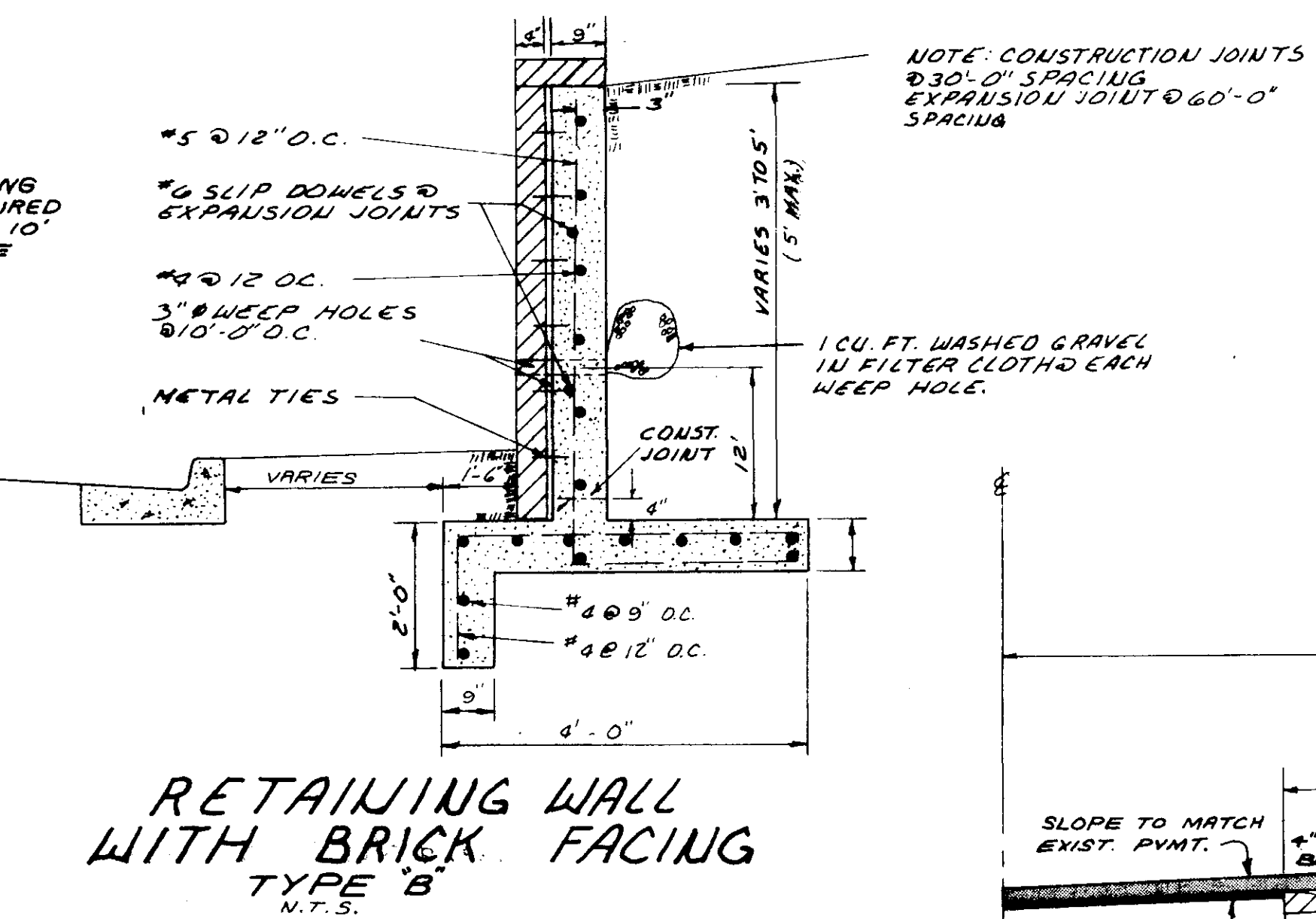
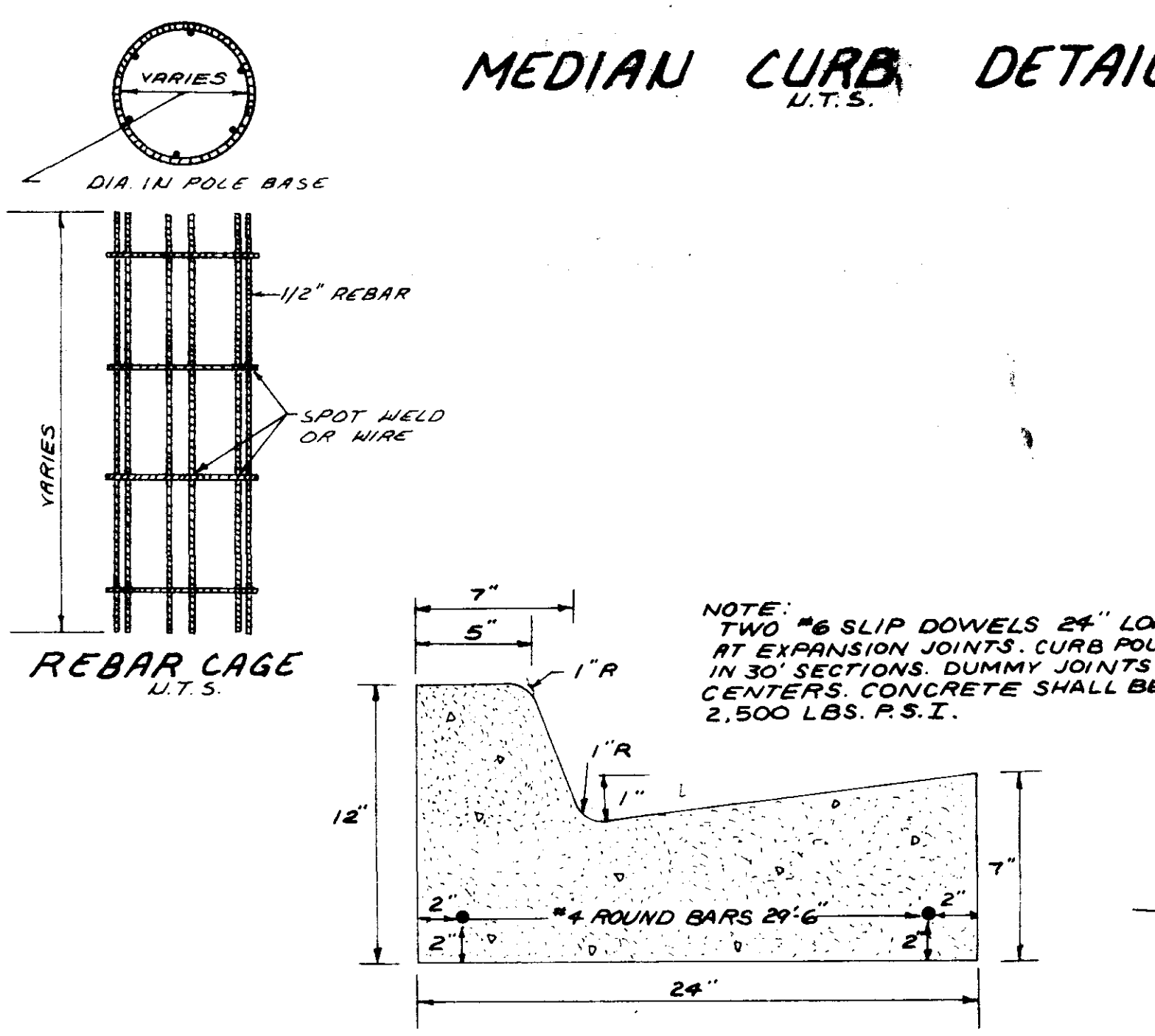
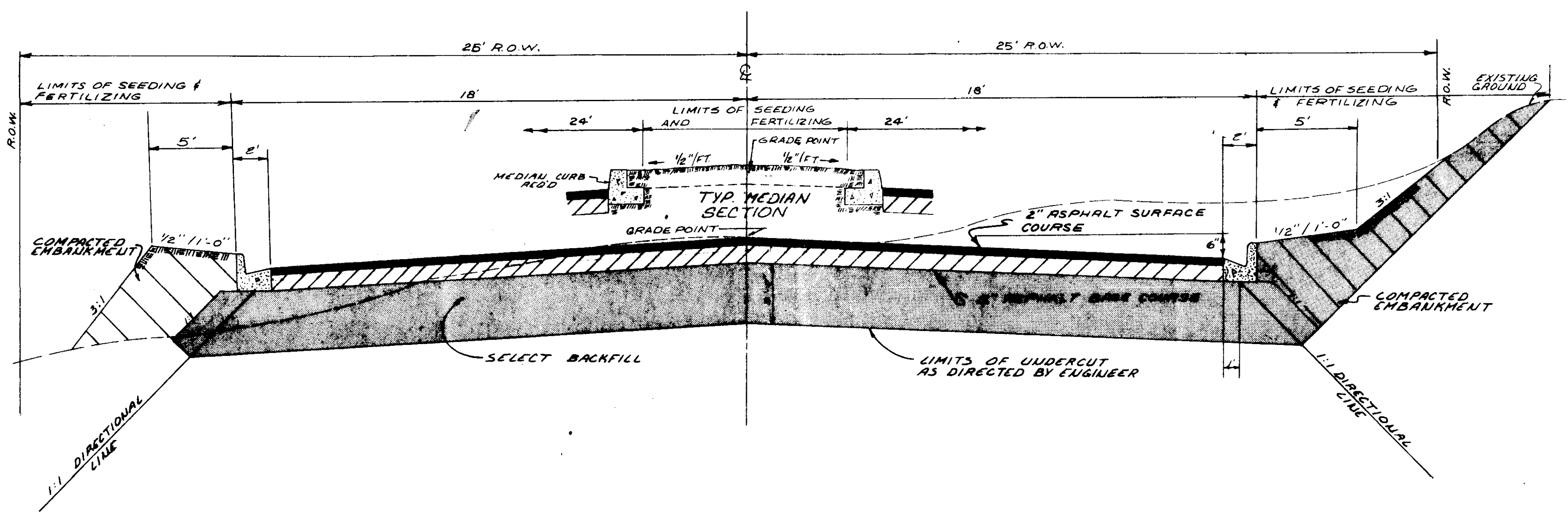
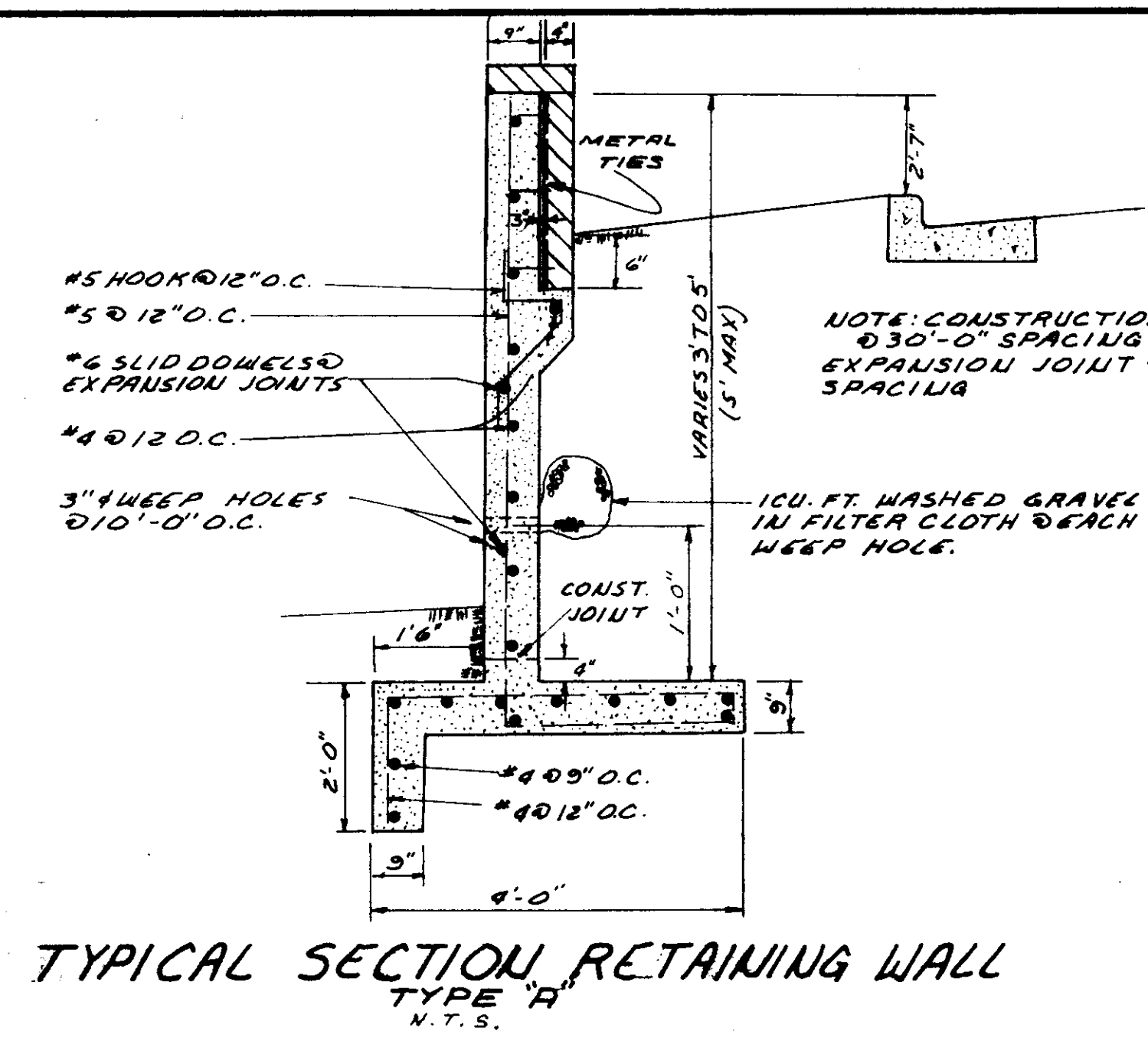
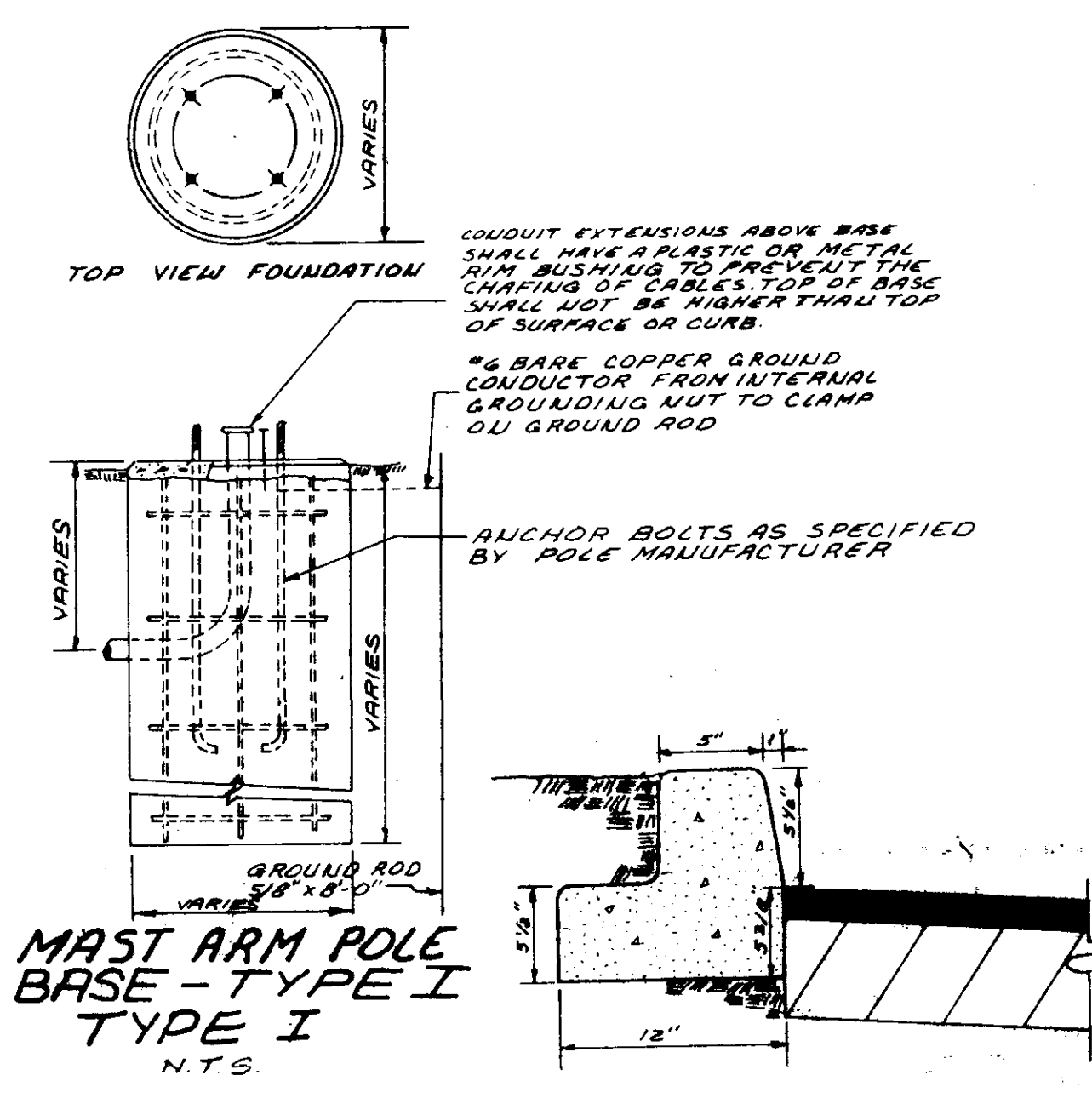
NORTH PARK DRIVE
 SCALE 1" = 50' HORIZ
 1" = 5' VERT.

NOTE: FINISHED GRADE IS TOP OF 4" BLACK BASE AT CURB (SEE SHEET 3)

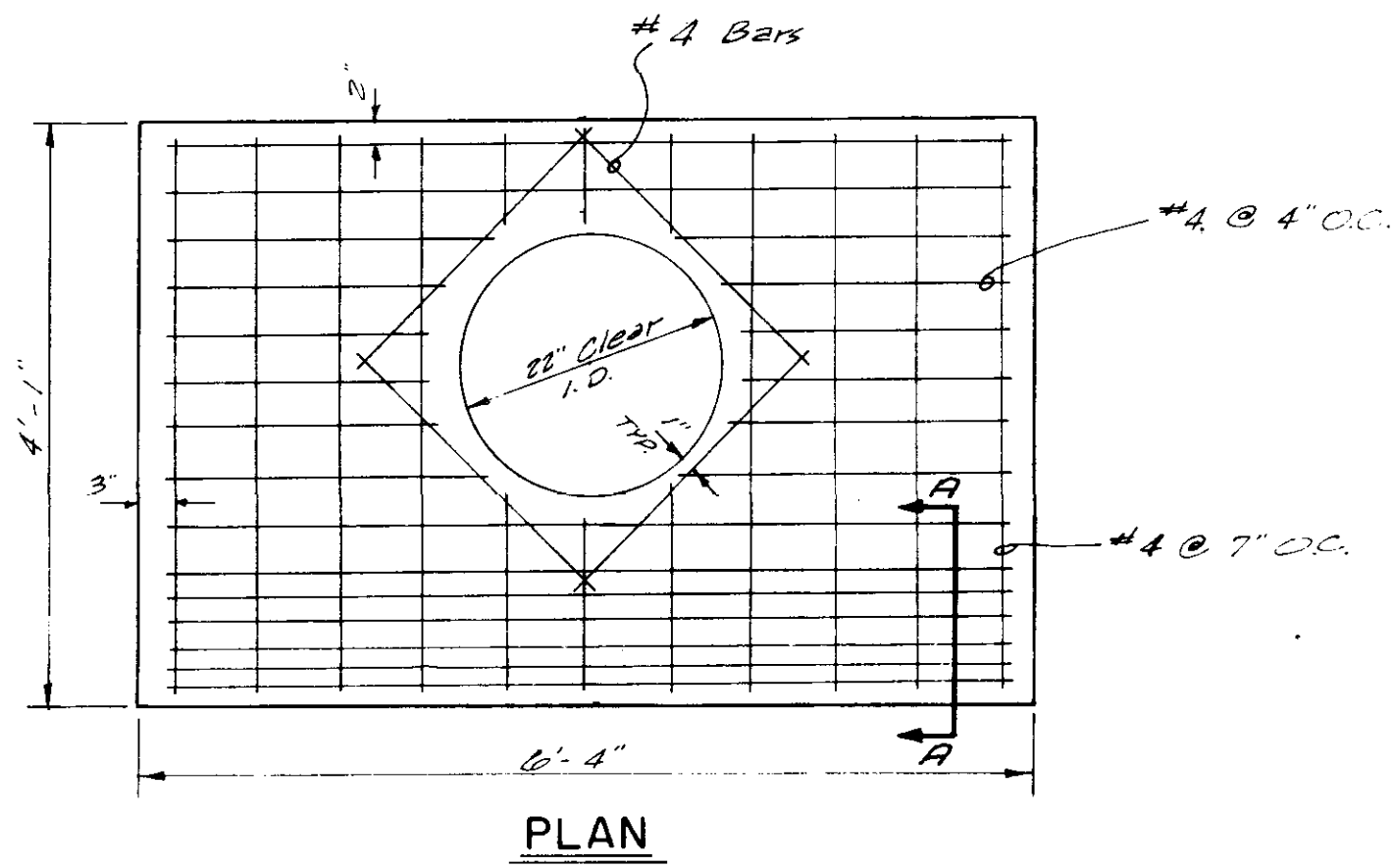
PROFILE
 CHECKED
 DATE
 NO.



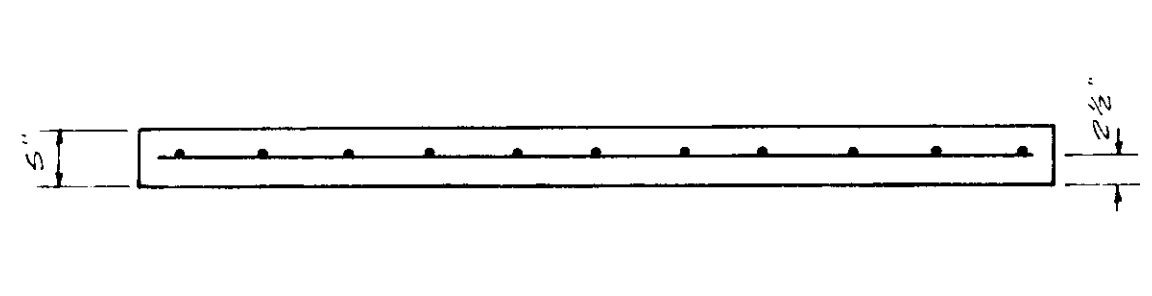
SAR #5



CITY OF RIDGELAND		
SPECIAL ASSESSMENT IMPROVEMENTS PROJECT NO. 5		
WAGGONER ENGINEERING INC. Consulting Engineers - Jackson / Brandon, Ms.		
DRAWN BY: T.D.L.	DATE: FEB. 1987	SHEET NO.
CHECKED BY: M.A.L.	SCALE: AS SHOWN	8
APPROVED BY: J.A.W.		

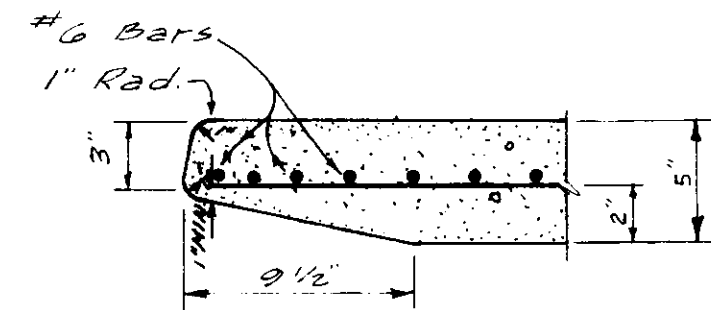


PLAN



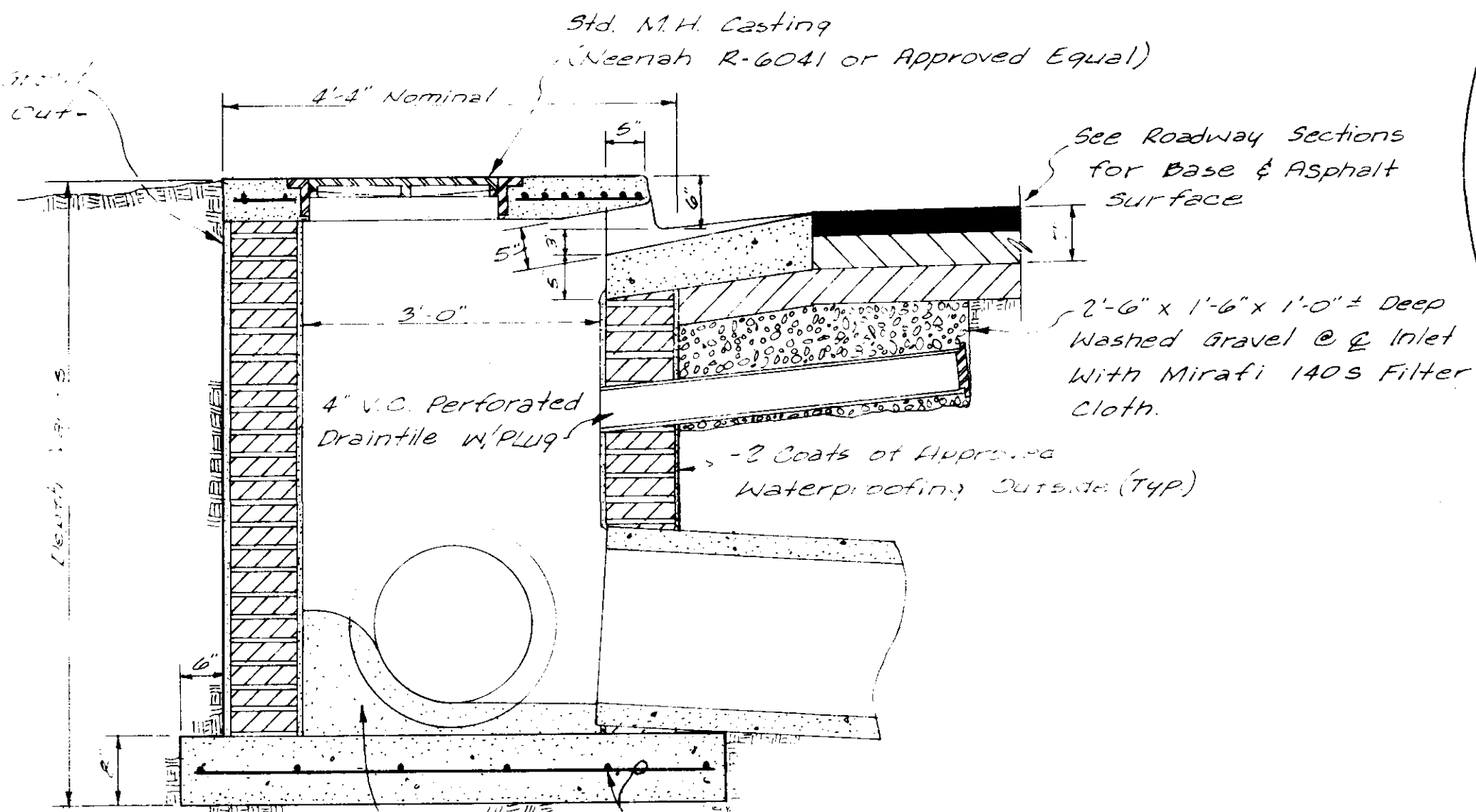
ELEVATION

INLET TOP



SECTION A-A

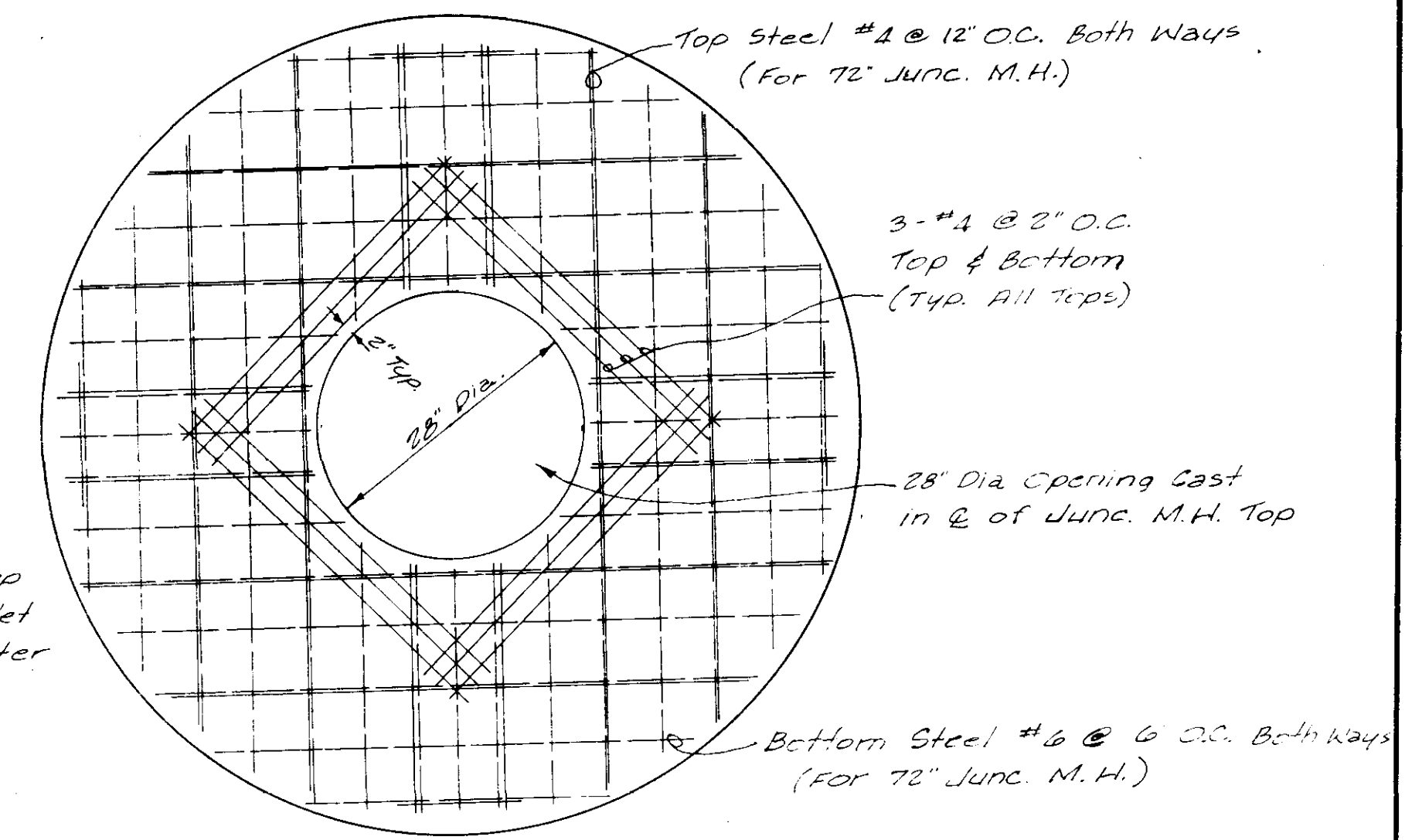
5" Masonry w/ 1/2" Grout
1:2 Mix Inside & Out -
Max. 3/4" Joints



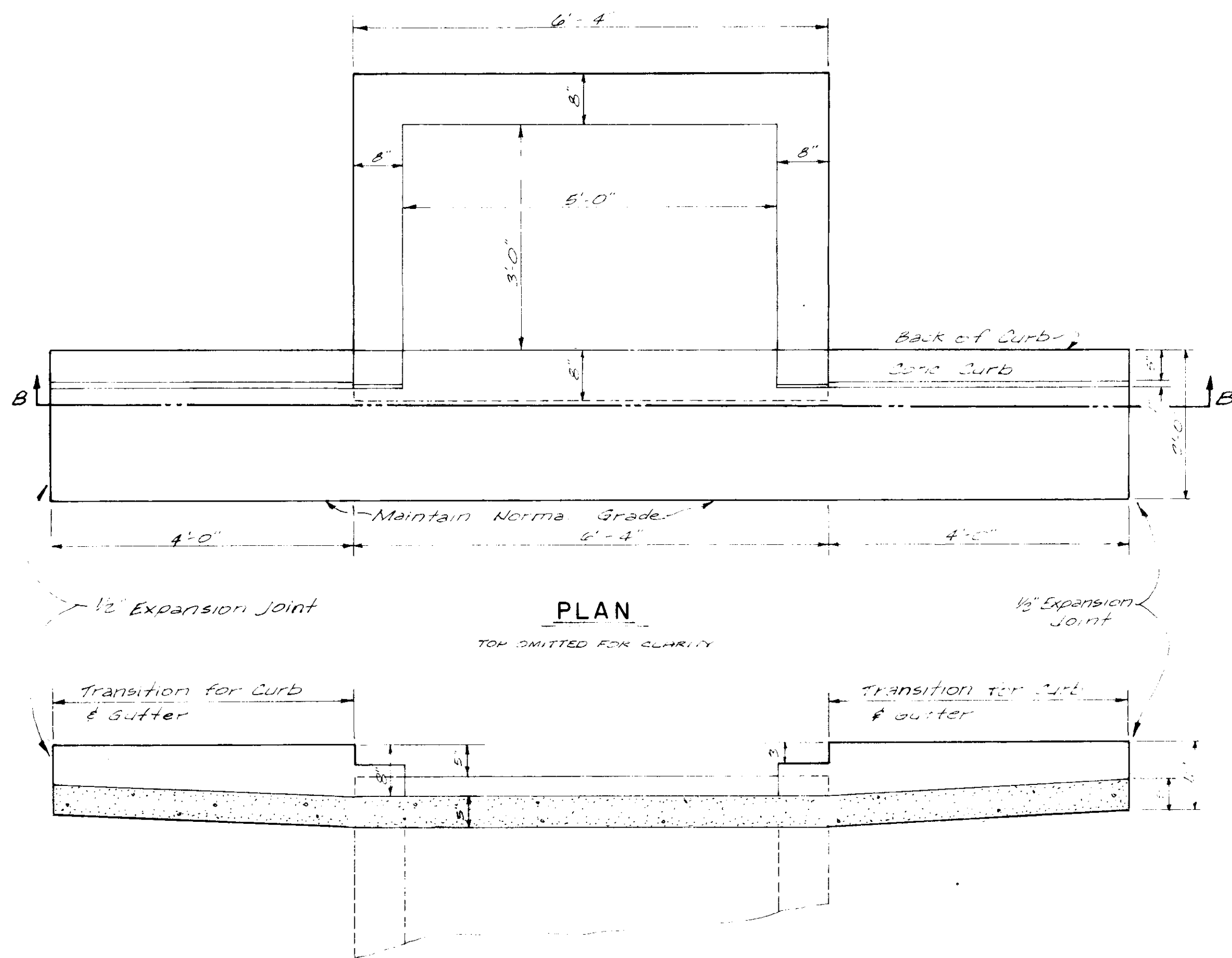
Construct Masonry Invert up to Surface of Plus
#4 Bars @ 12" O.C. Both Ways
Undisturbed Bearing Soil

TYPE "A" INLET

Junc. M.H. I.D.	TOP Thickness	TOP Steel	Bottom Steel
72"	8"	#4 @ 12" O.C.	#6 @ 12" O.C.
84"	9"	#4 @ 10" O.C.	#6 @ 8" O.C.
96"	10"	#4 @ 8" O.C.	#6 @ 6" O.C.
108"	12"	#4 @ 6" O.C.	#6 @ 4" O.C.



TYPICAL JUNCTION MANHOLE TOP
(Reinf. for 72" Junc. Box Shown)

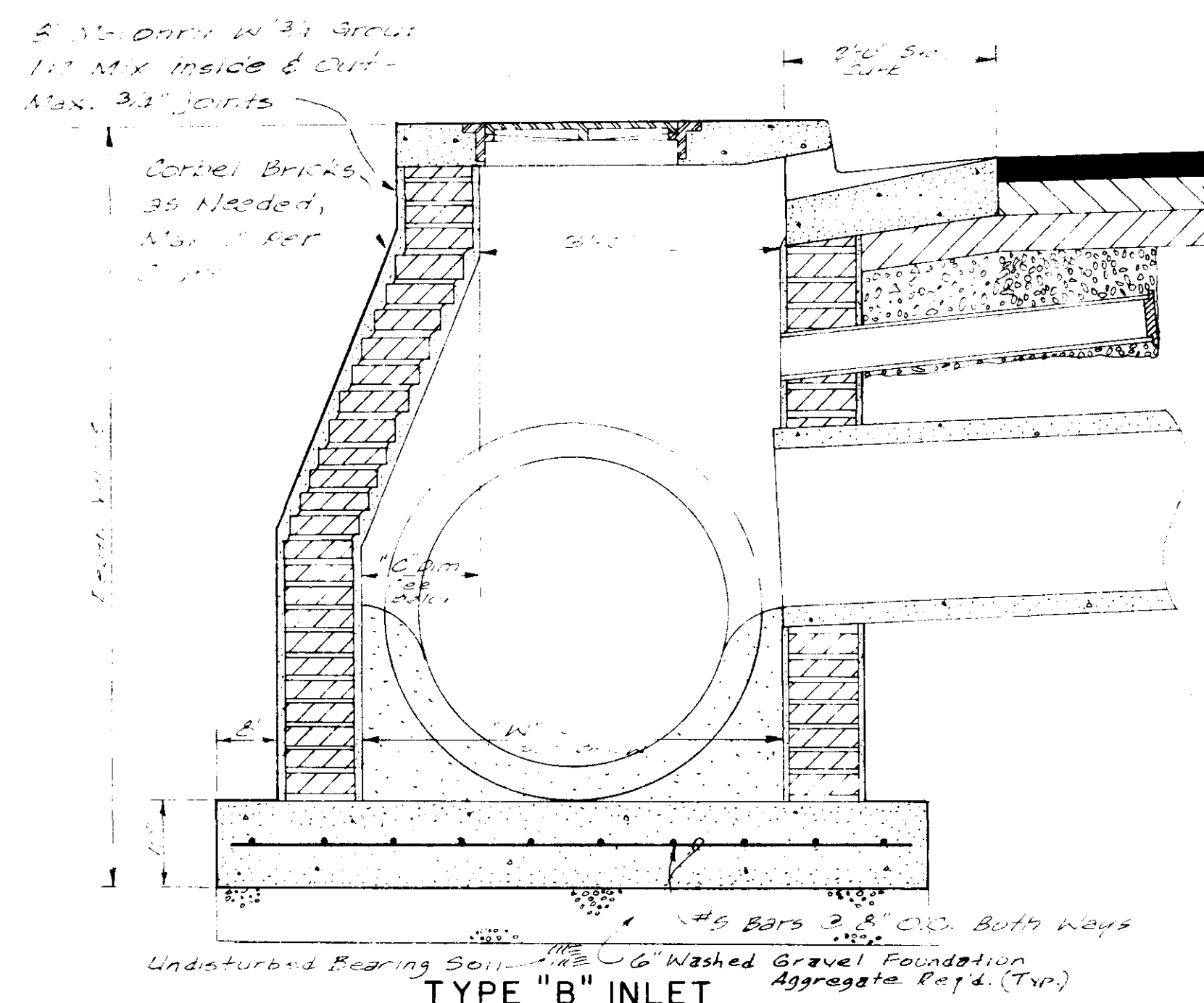


PLAN

TOP OMITTED FOR CLARITY

SECTION B-B

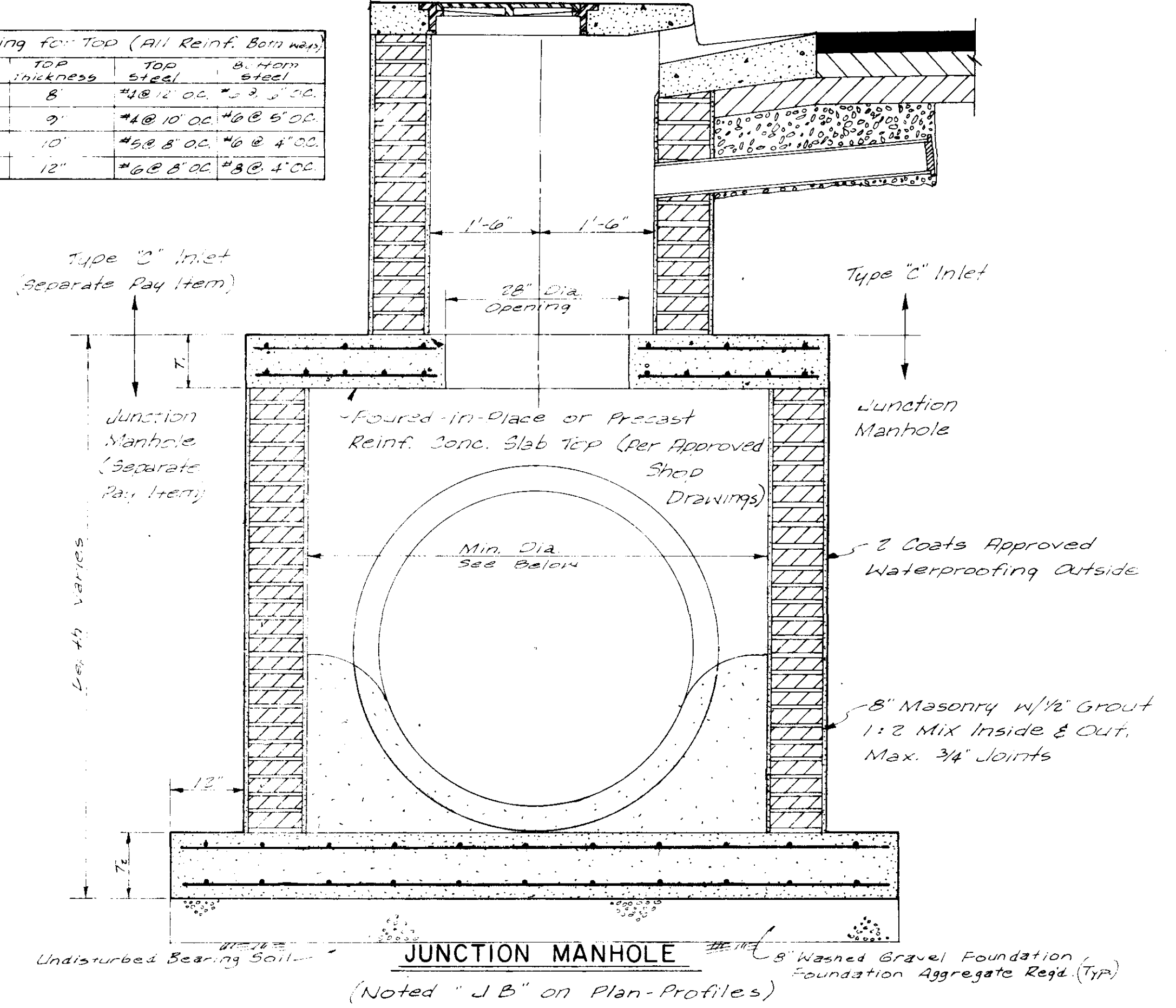
CURB INLET



Undisturbed Bearing Soil
#6 Bars @ 12" O.C. Both Ways
6" Washed Gravel Foundation Aggregate Reg'd. (Typ)

TYPE "B" INLET

Pipe I.D.	Pipe O.D.	Dim. "W"	Dim. "G"	Min. Courses Contained
24"	30"	37"	4"	4
30"	36"	43"	5"	5
36"	42"	49"	6"	6
42"	48"	55"	7"	7



Undisturbed Bearing Soil
#6 Bars @ 12" O.C. Both Ways
8" Washed Gravel Foundation Aggregate Reg'd. (Typ)

JUNCTION MANHOLE

(Noted "JB" on Plan-Profiles)

Pipe I.D.	Pipe O.D.	Min. Top Dia. (ft.)	Min. T ₁	Min. T ₂	Reinf. for Foundation
12"	18"	12"	8"	12"	#4 @ 12" O.C.
18"	24"	18"	8"	12"	#4 @ 10" O.C.
24"	30"	24"	8"	12"	#4 @ 8" O.C.
30"	36"	30"	8"	12"	#4 @ 6" O.C.
36"	42"	36"	8"	12"	#4 @ 6" O.C.
42"	48"	42"	8"	12"	#4 @ 6" O.C.
48"	54"	48"	8"	12"	#4 @ 6" O.C.
54"	60"	54"	8"	12"	#4 @ 6" O.C.
60"	66"	60"	8"	12"	#4 @ 6" O.C.
66"	72"	66"	8"	12"	#4 @ 6" O.C.
72"	78"	72"	8"	12"	#4 @ 6" O.C.
78"	84"	78"	8"	12"	#4 @ 6" O.C.
84"	90"	84"	8"	12"	#4 @ 6" O.C.
90"	96"	90"	8"	12"	#4 @ 6" O.C.
96"	102"	96"	8"	12"	#4 @ 6" O.C.
102"	108"	102"	8"	12"	#4 @ 6" O.C.
108"	114"	108"	8"	12"	#4 @ 6" O.C.
114"	120"	114"	8"	12"	#4 @ 6" O.C.

Note: #4 Reinf. Both Ways - Each Face.

CITY OF RIDGELAND

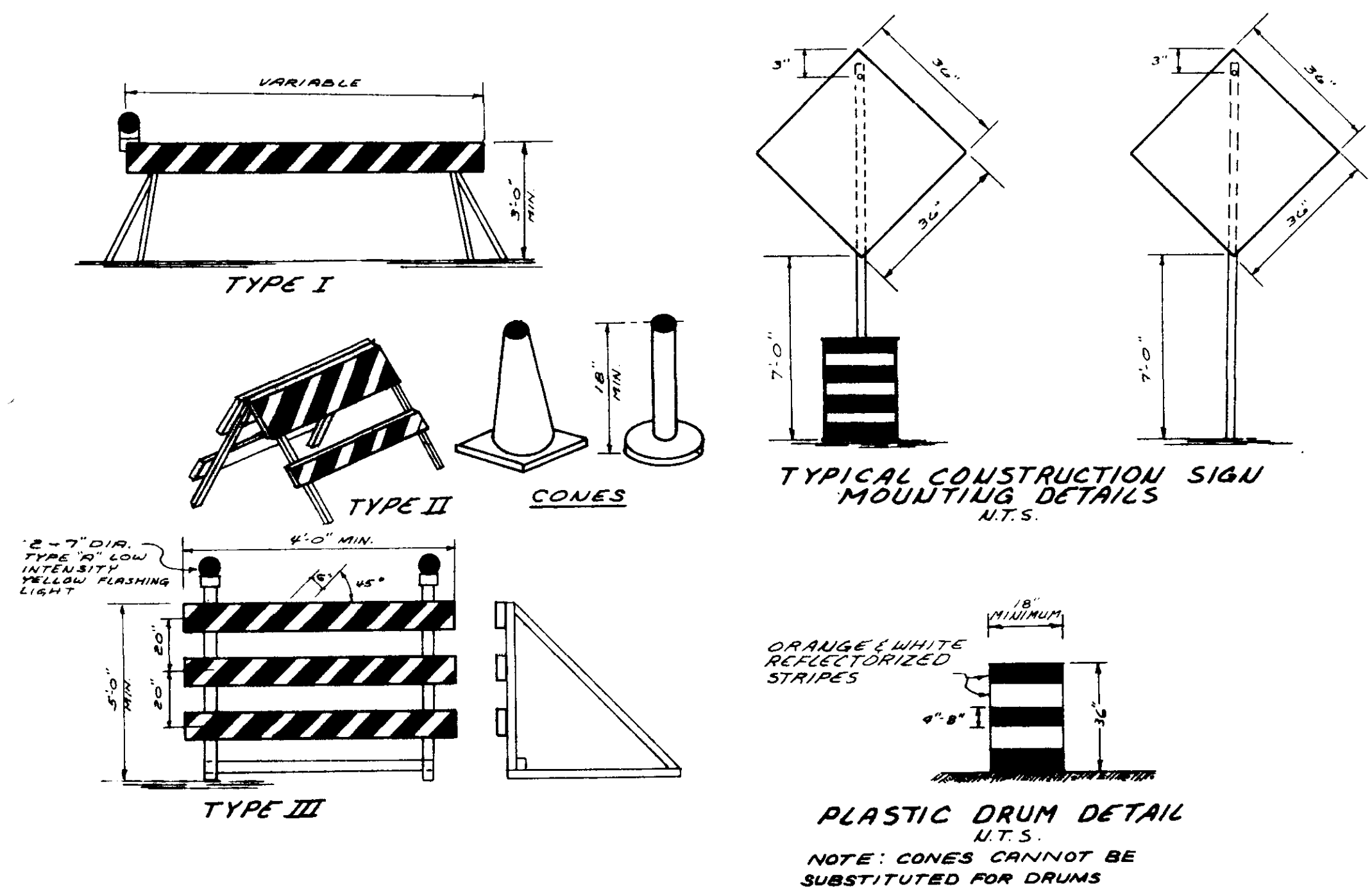
SPECIAL ASSESSMENT IMPROVEMENTS PROJECT NO. 5

WAGGONER ENGINEERING INC.
Consulting Engineers - Jackson / Brandon, MS.

DRAWN BY: M.A.L. DATE: FEB., 1987 SHEET NO. 9

CHECKED BY: C.H.W. SCALE: 1" = 3'

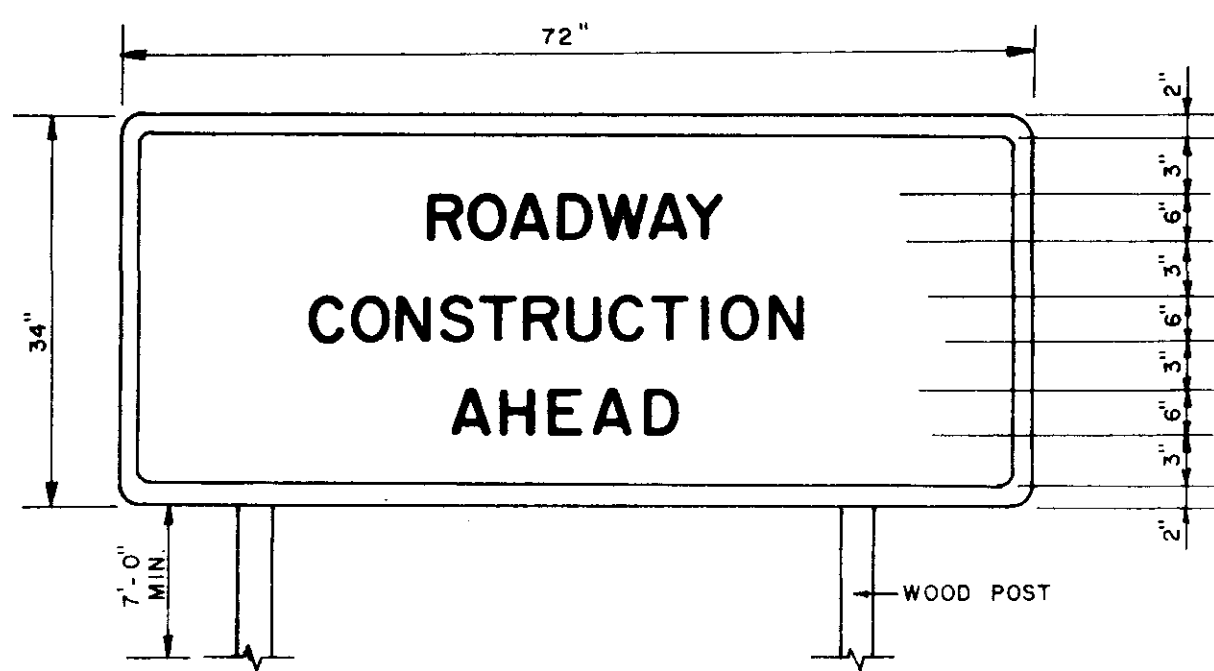
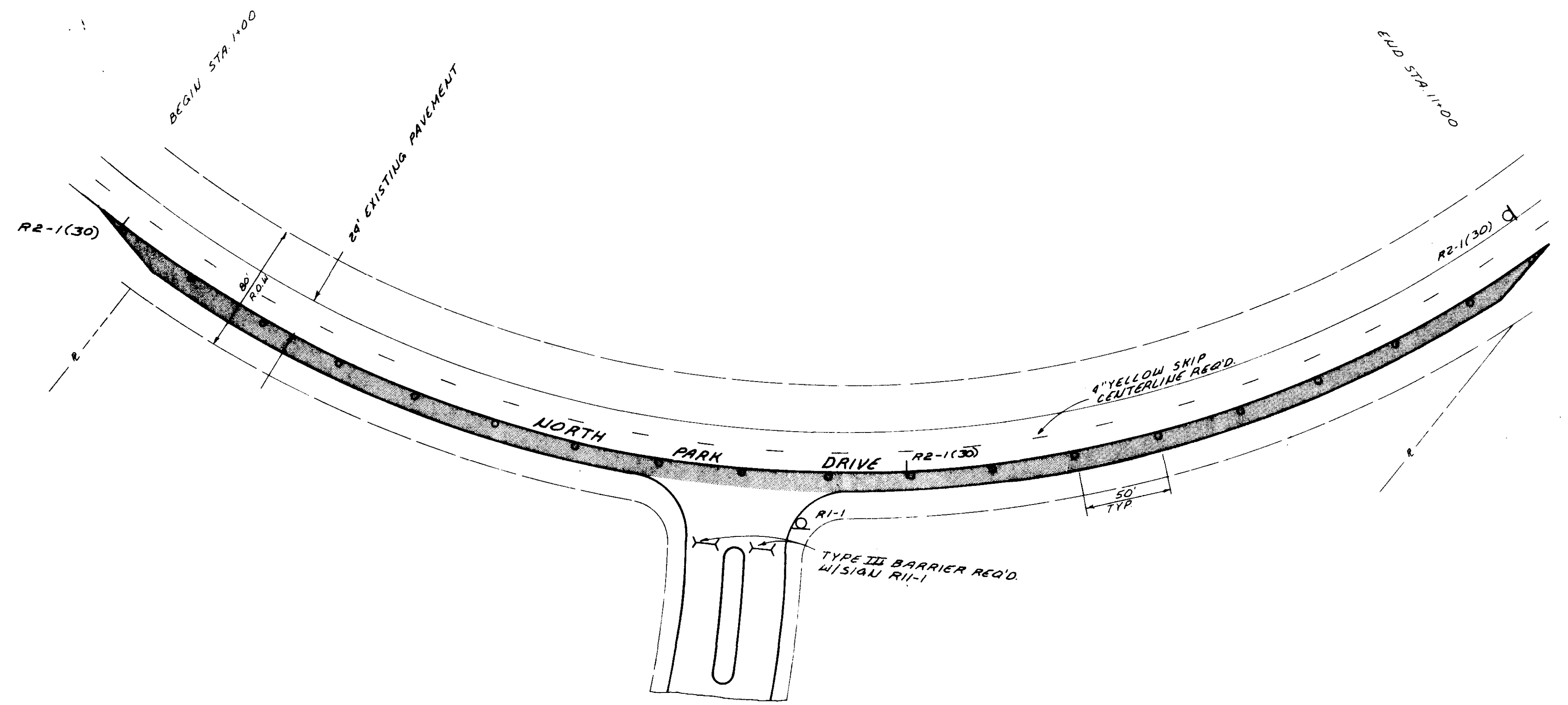
APPROVED BY: J.A.W.



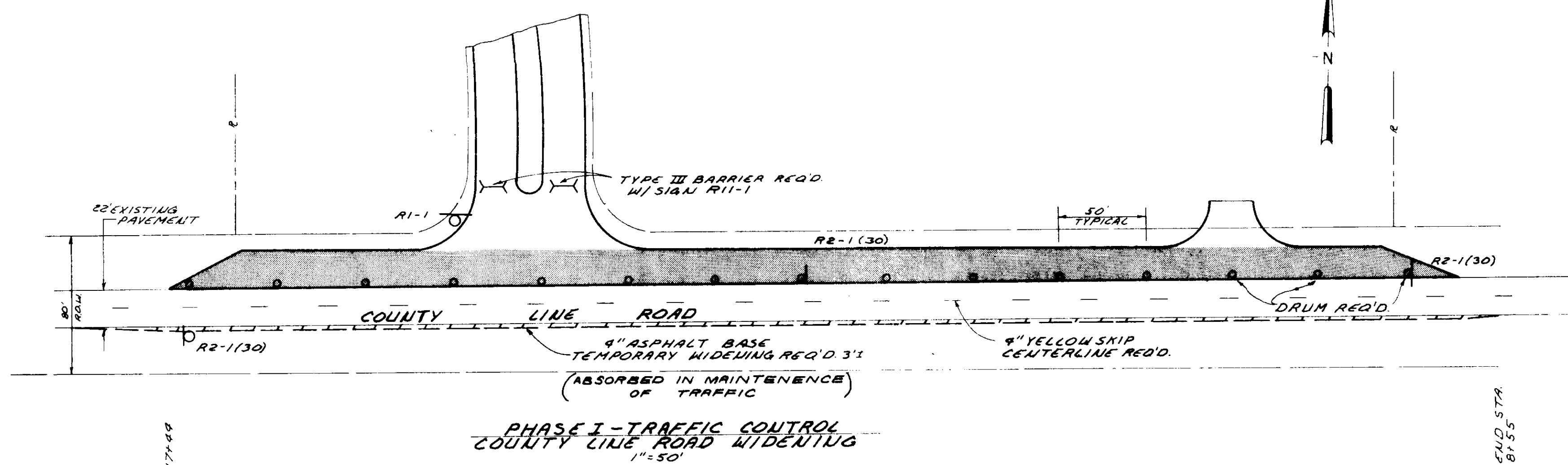
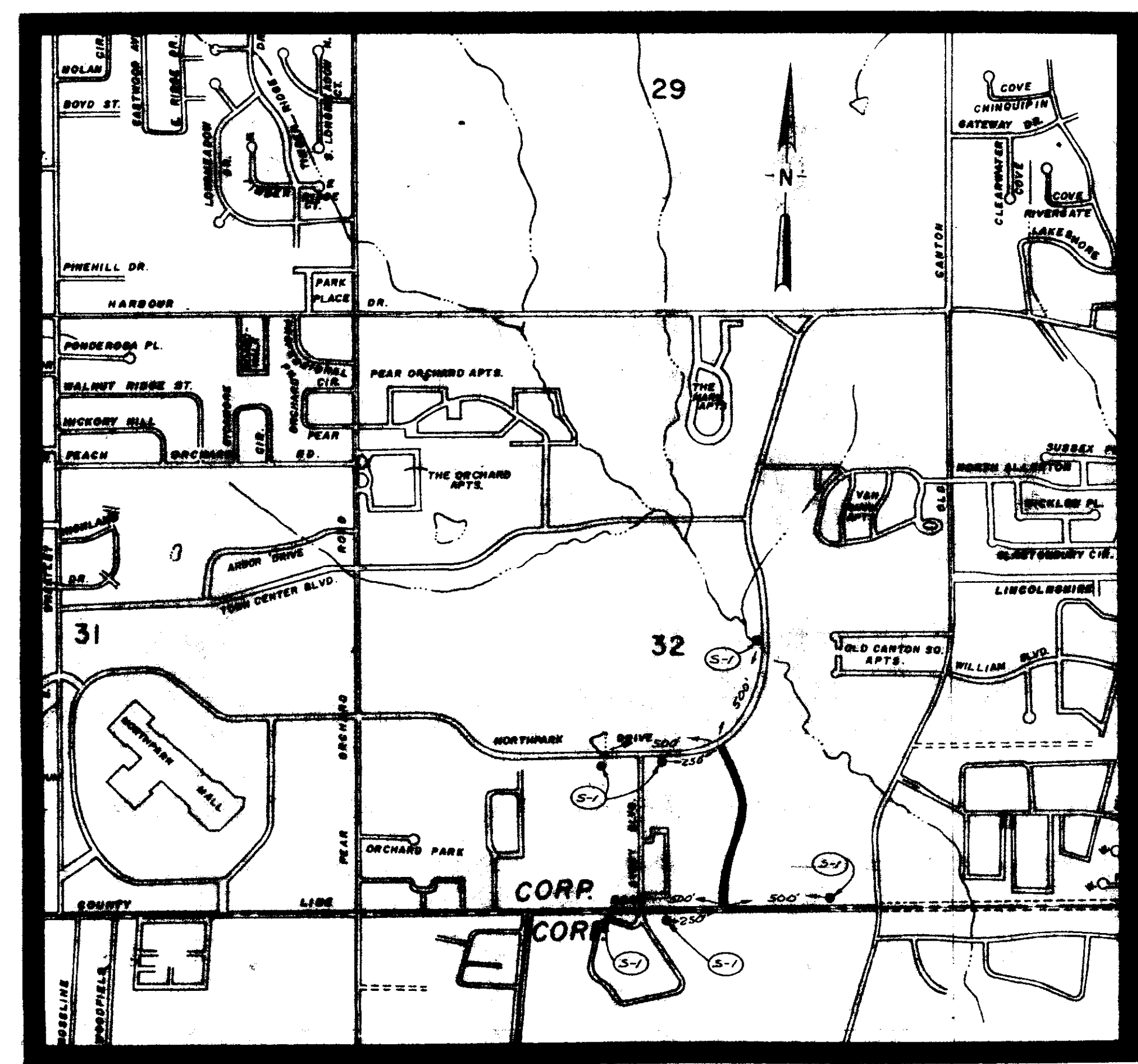
BILL OF TEMPORARY CONSTRUCTION SIGNS (FOR INFORMATION ONLY)

QUANTITY	TYPE	LEGEND	SIZE
6	S-1	ROAD CONSTRUCTION AHEAD	60" x 30"
6	R11-1	ROAD CLOSED	48" x 30"
4	R2-1(30)	SPEED LIMIT 30	24" x 30"
2	R1-1	STOP	30" x 30"

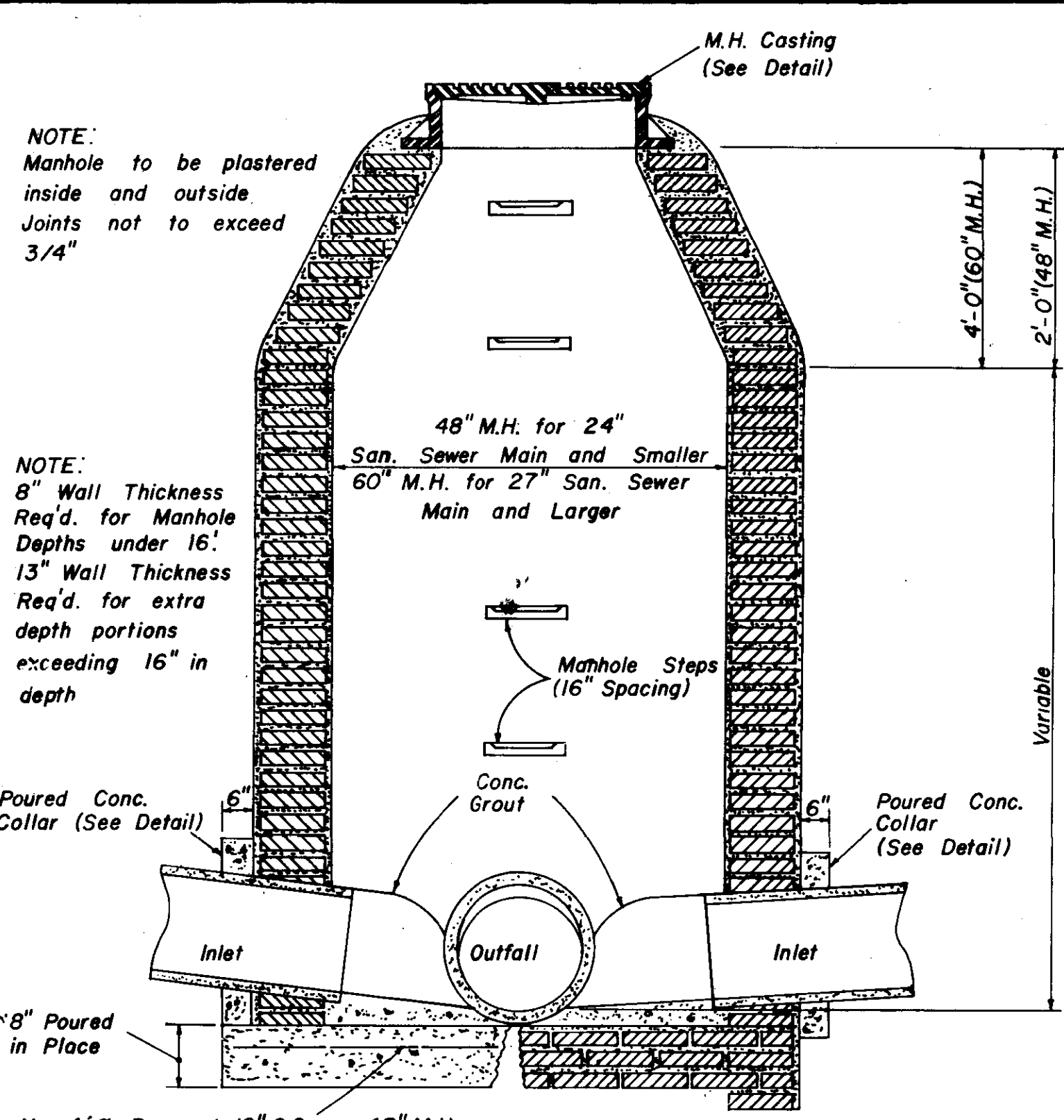
NOTE: PAYMENT FOR TEMPORARY STRIPING AND TEMPORARY SIGNS TO BE ABSORBED IN LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC



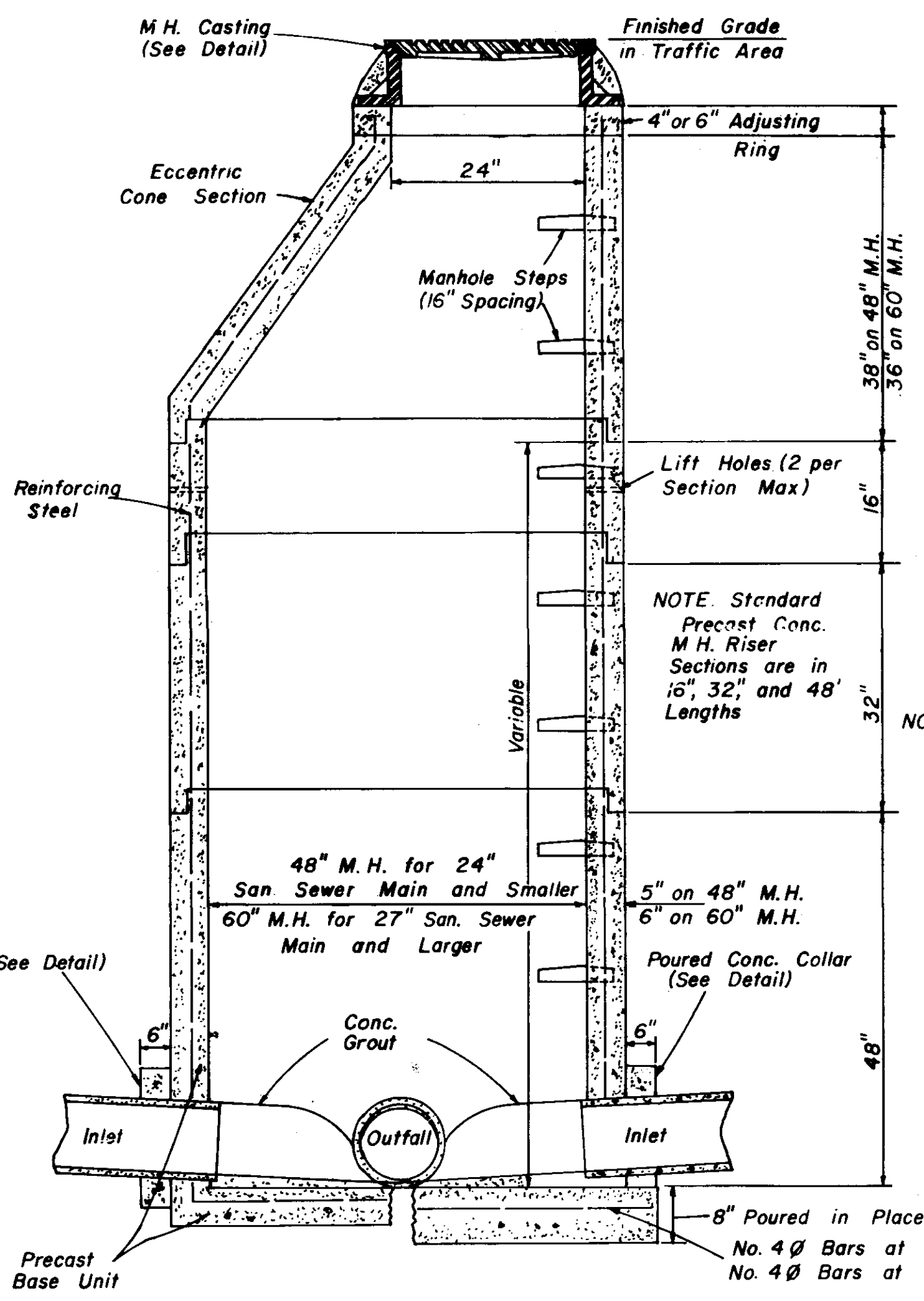
NOTE: MAINTAIN ONE LANE A MINIMUM OF 11' IN WIDTH EACH DIRECTION FOR THRU TRAFFIC ON CAR DRIV. HTD. AT ALL TIMES DURING CONSTRUCTION.



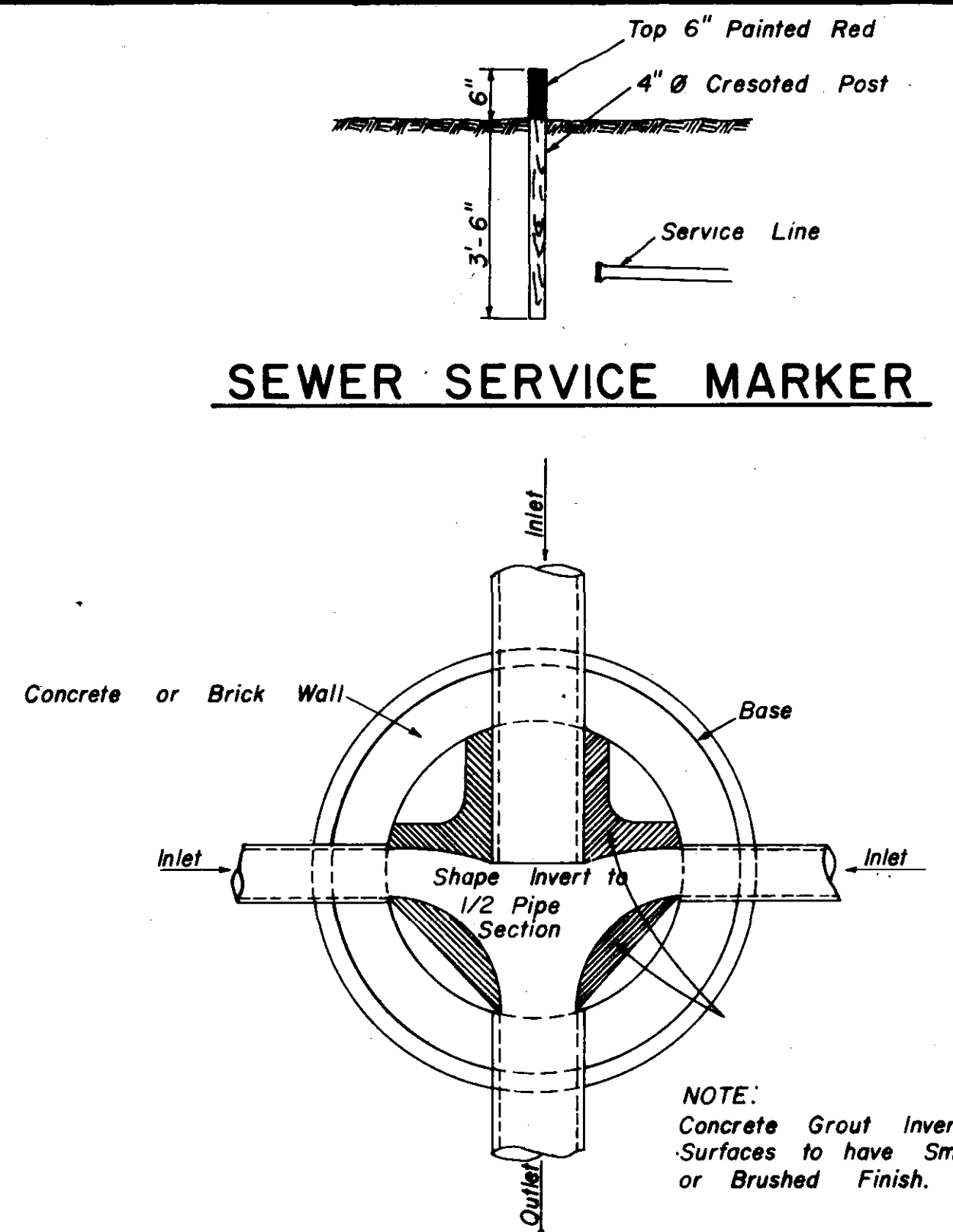
CITY OF RIDGELAND		
TRAFFIC CONTROL PLAN		
COUNTY LINE ROAD WOODLANDS PARKWAY NORTH PARK DRIVE		
WAGGONER ENGINEERING INC. Consulting Engineers - Jackson / Brandon, Ms.		
DRAWN BY: JWP	DATE: MAY 1, 87	SHEET NO.
CHECKED BY: C.W.	SCALE: AS NOTED	11 OF
APPROVED BY: JAW		



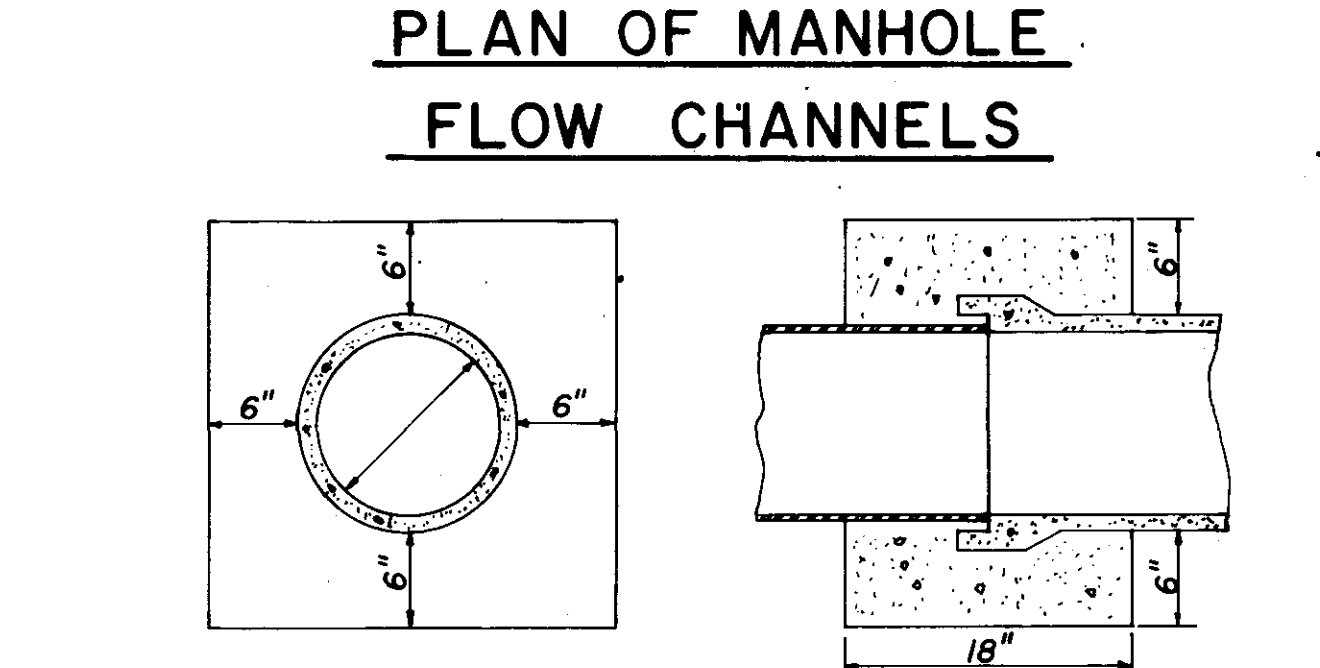
**SECTION
STANDARD BRICK MANHOLE**



**SECTION
PRECAST CONCRETE MANHOLE**



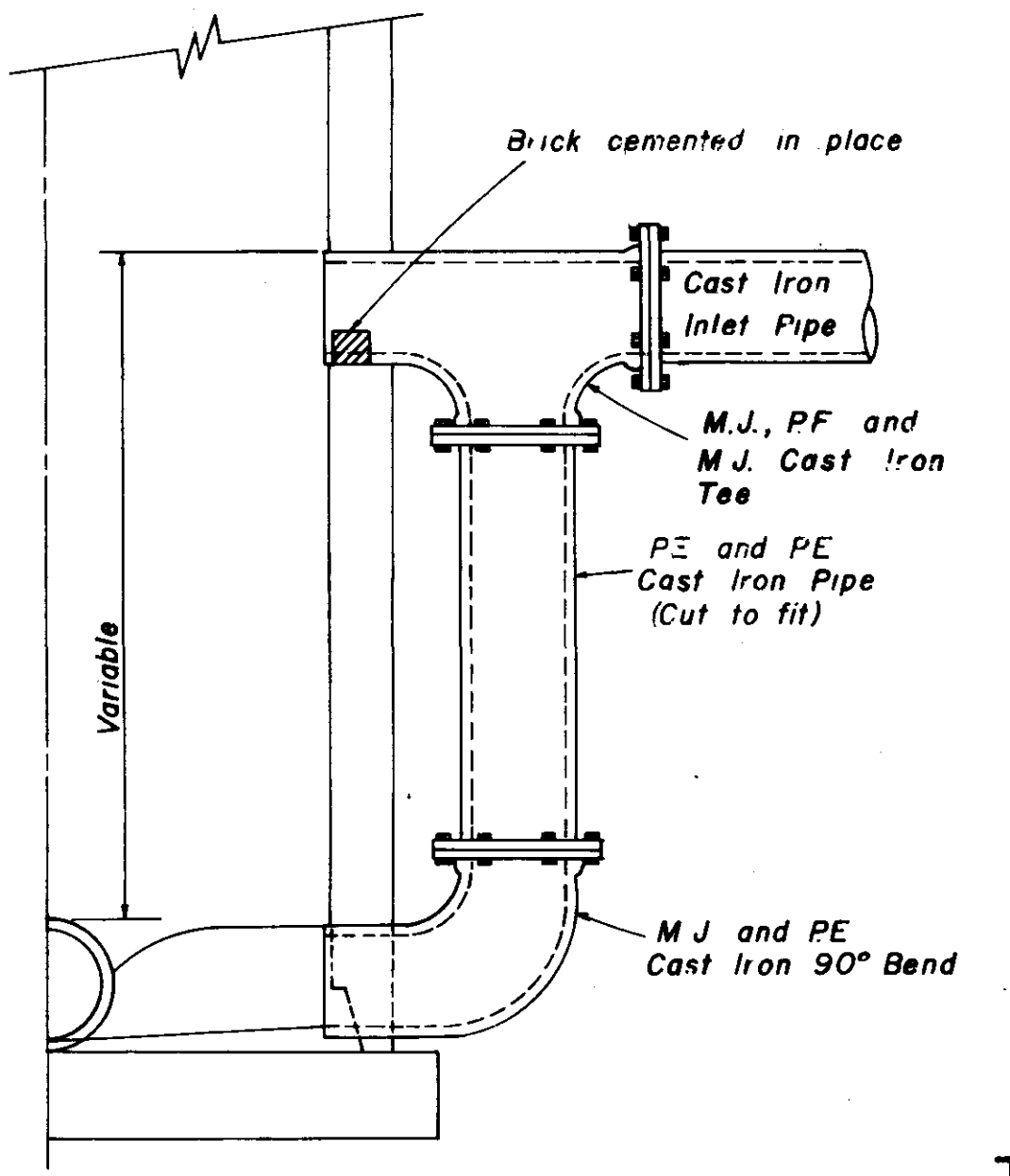
SEWER SERVICE MARKER



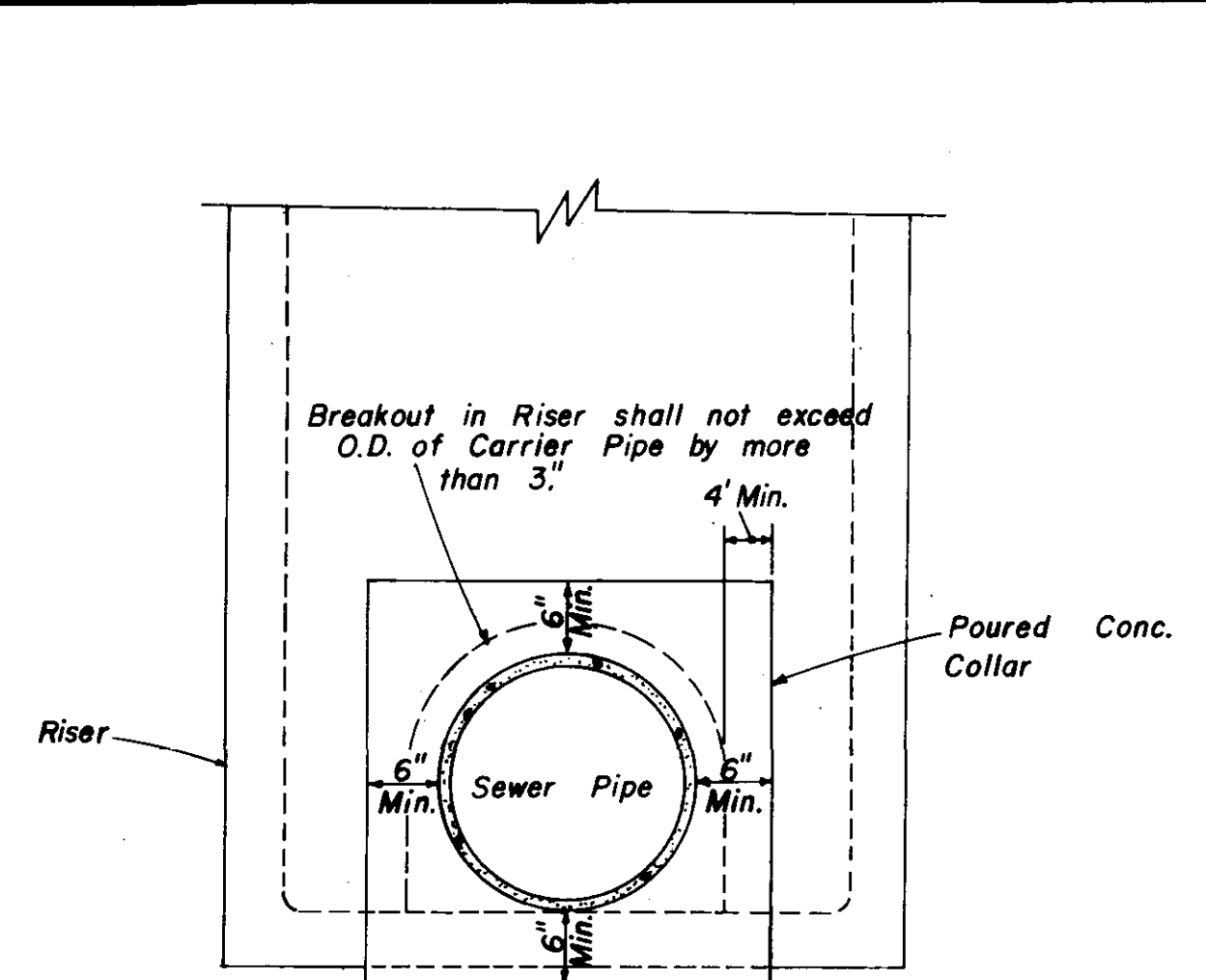
**PLAN OF MANHOLE
FLOW CHANNELS**

ELEVATION SECTION

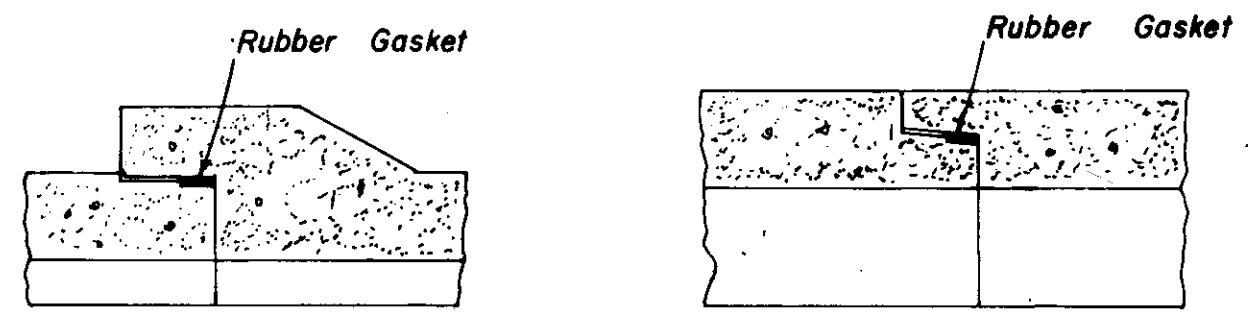
CONCRETE COLLAR DETAILS



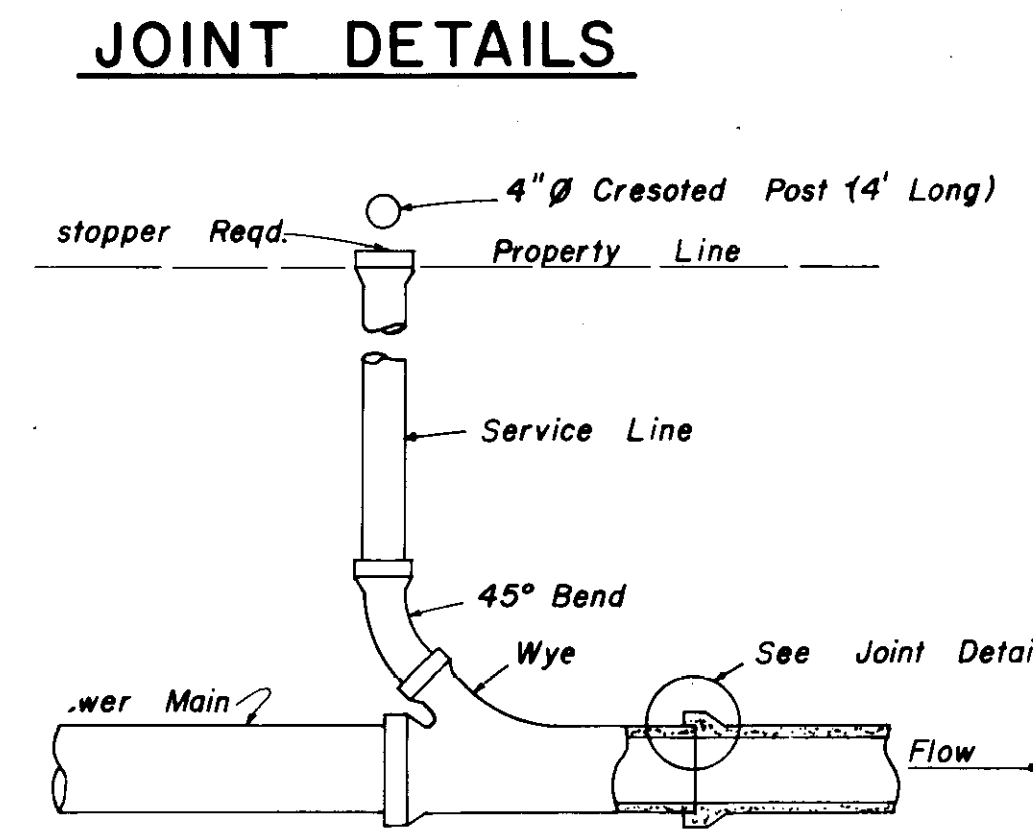
**HALF SECTION
MANHOLE WITH DROP CONNECTION**



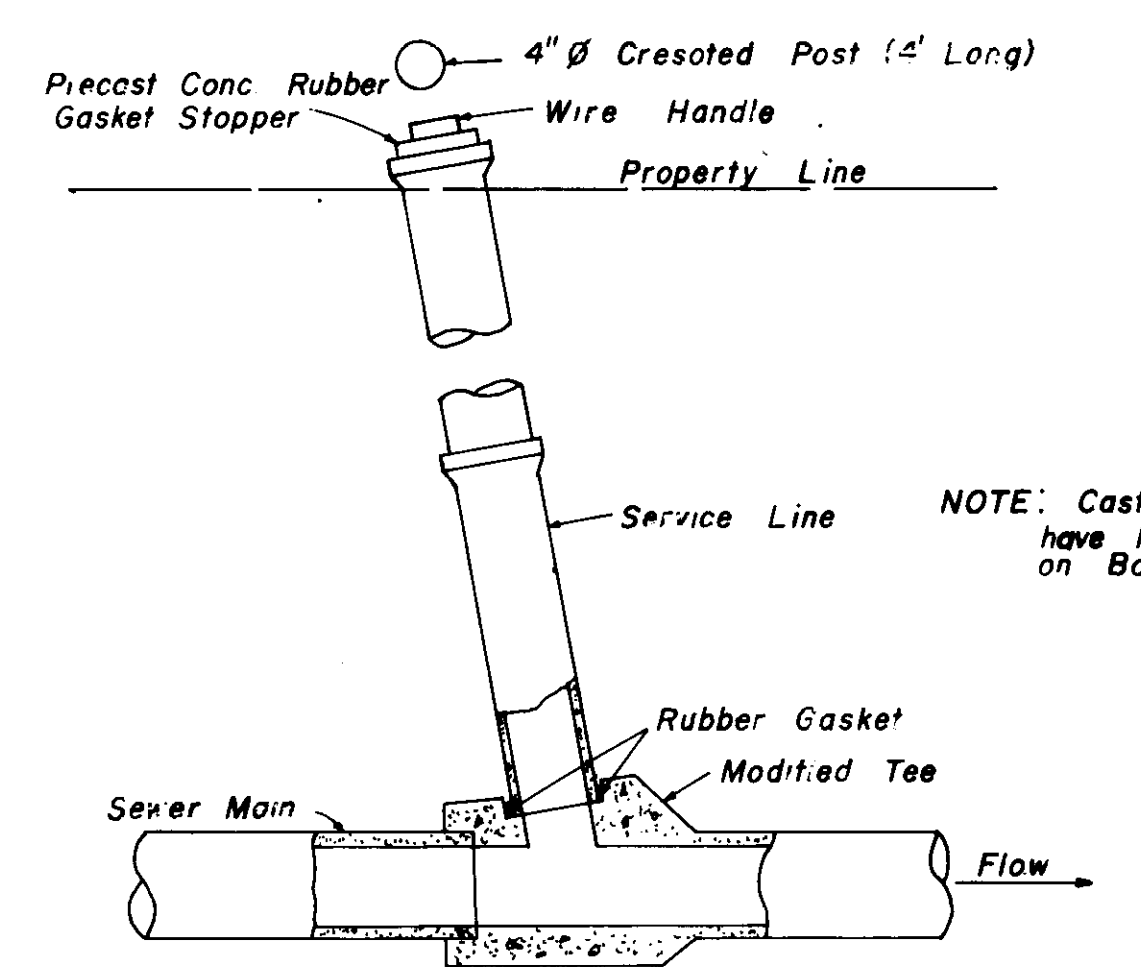
**ELEVATION
CONCRETE COLLAR AT
MANHOLE CONNECTION**



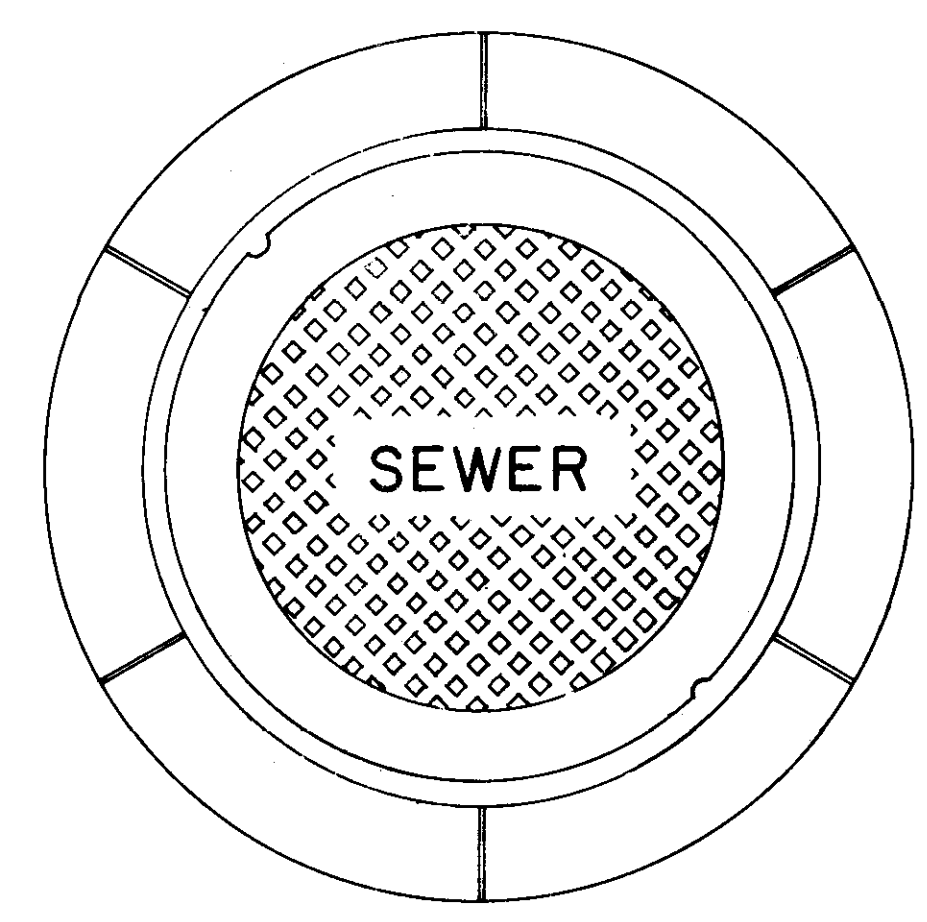
BELL & SPIGOT JOINT DETAILS



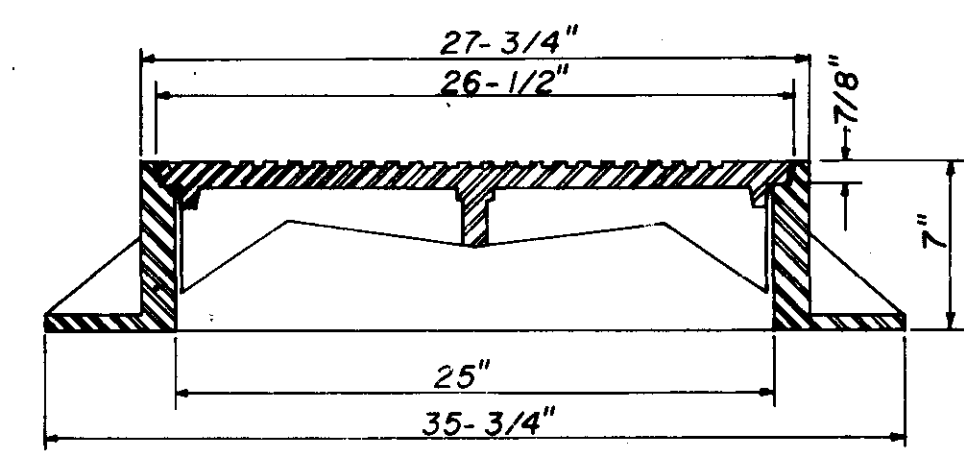
**TYPICAL SERVICE TO PROPERTY LINE
WITH WYE JOINT**



**TYPICAL SERVICE TO PROPERTY LINE
WITH MODIFIED TEE JOINT**

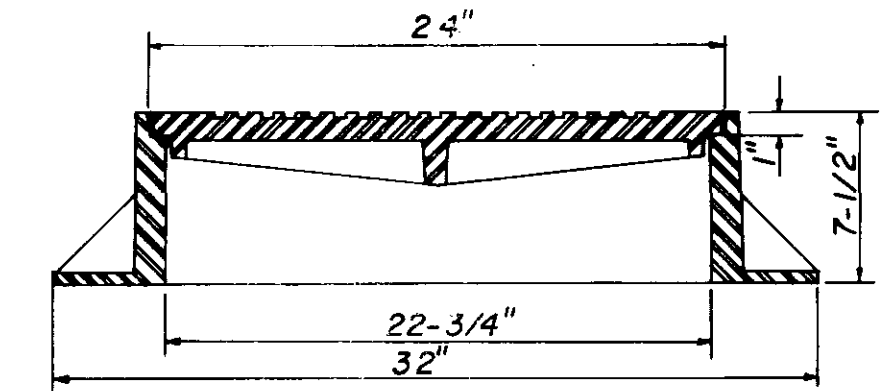


**PLAN
MANHOLE CASTING**



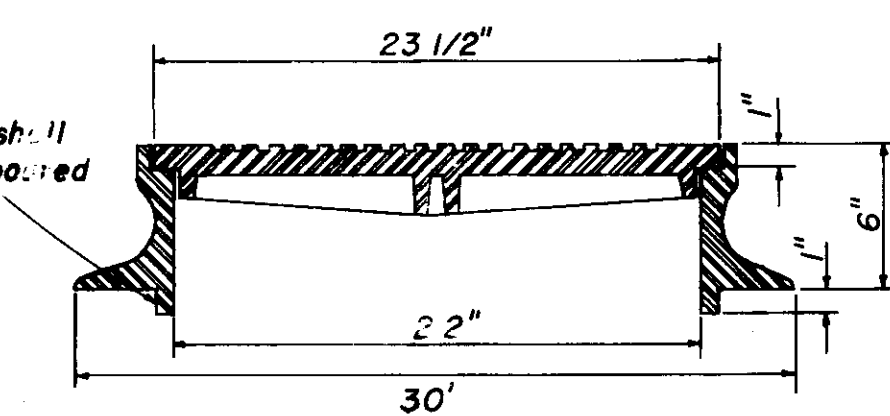
**SECTION
TYPE "A" MANHOLE CASTING**

NOTE: 1. Use Type "A" Manhole Casting in Street R.O.W.
2. Use Harper No. 2, City of Jackson Standard (420 lbs.) or Vulcan No. VM-15, City of Jackson Standard (420 lbs.)



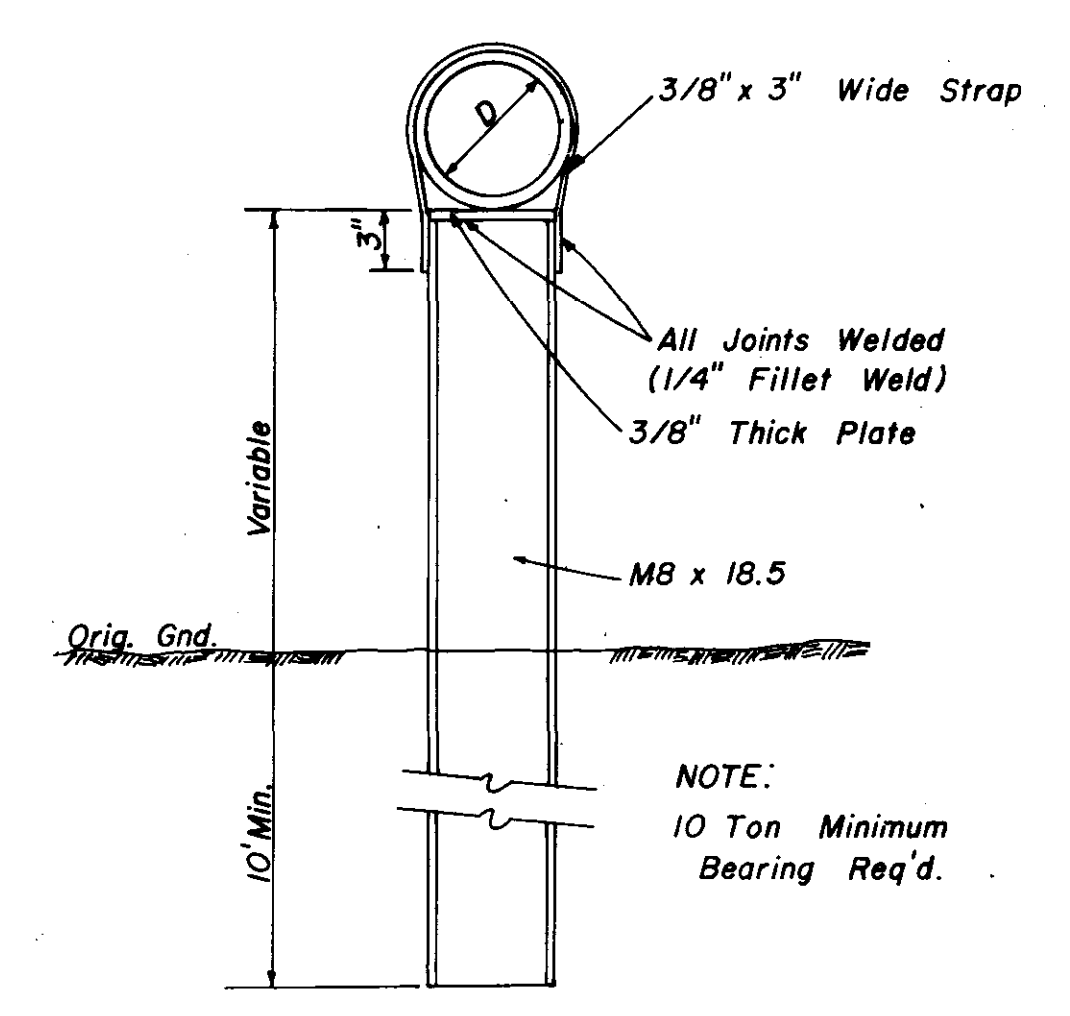
**SECTION
TYPE "B" MANHOLE CASTING**

NOTE: 1. Use Type "B" Manhole Casting for any Manhole not in a Street R.O.W.
2. Use Harper No. 1 (M.S.P.E. Standard) Light Weight (330 lbs.) or Vulcan No. VM-17 (300 lbs.) or Opelika Foundry No. C-2-1 (325 lbs.)

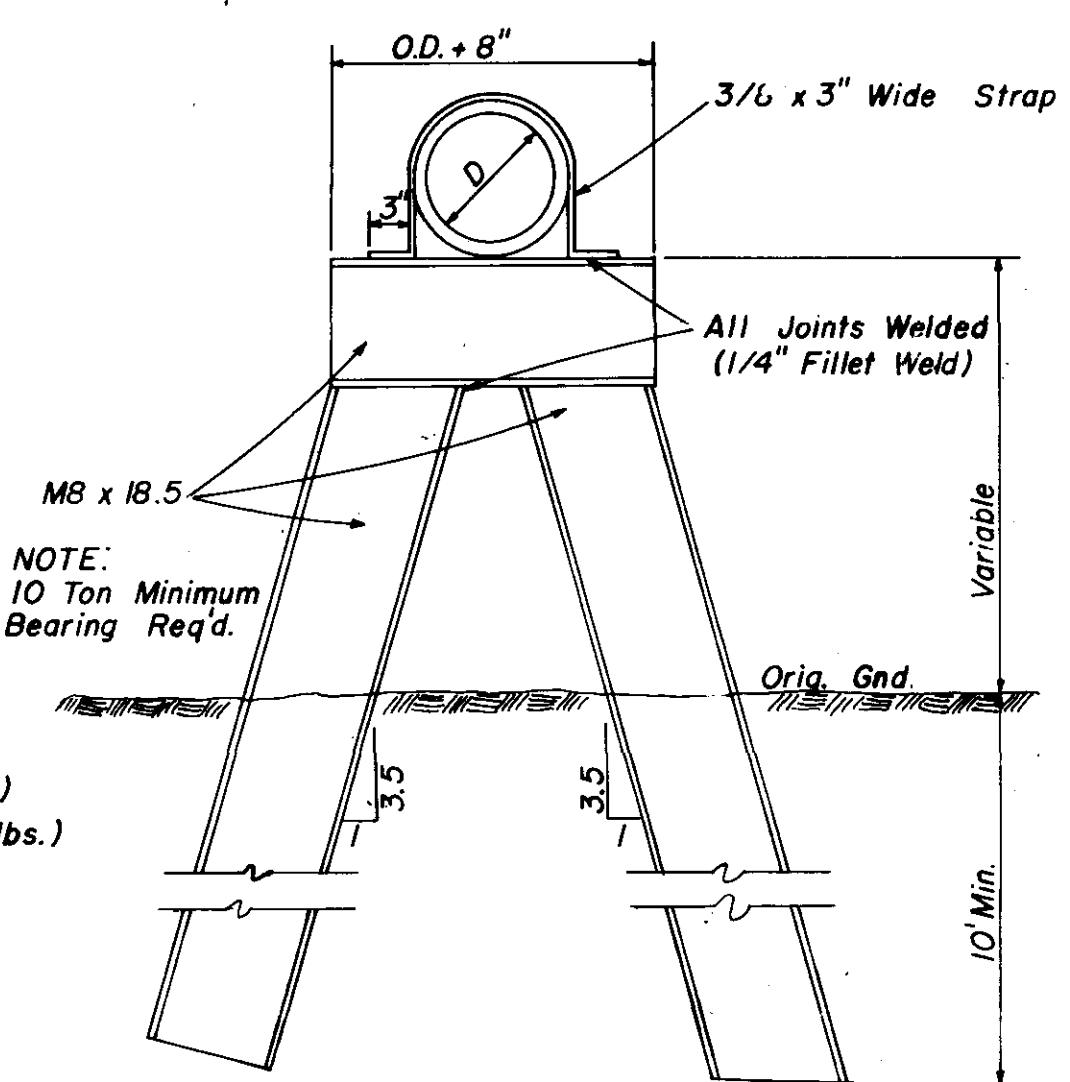


**SECTION
TYPE "C" MANHOLE CASTING**

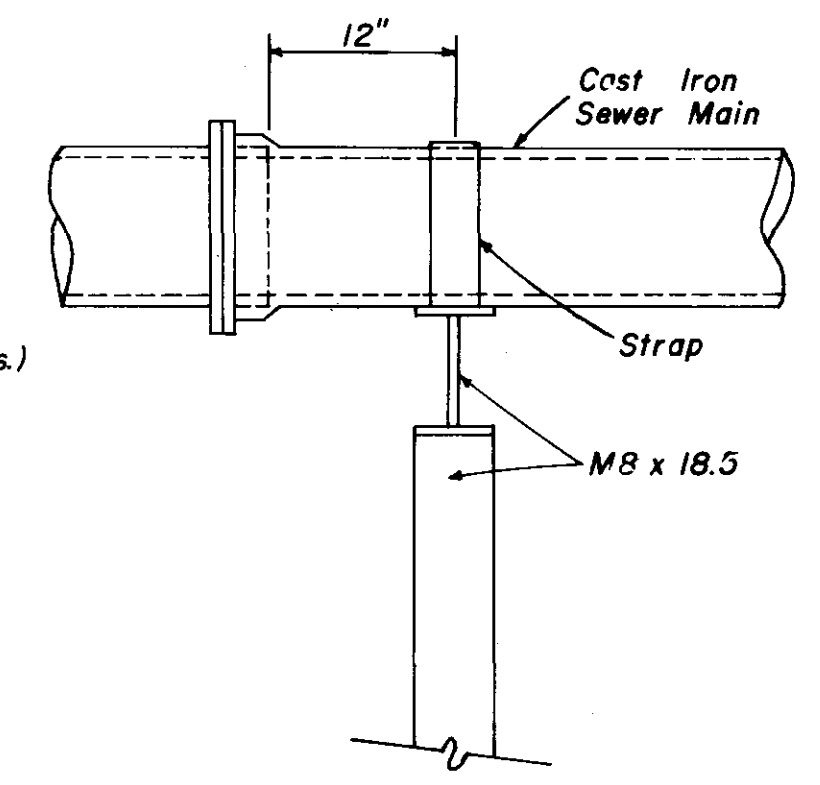
NOTE: 1. Use Type "C" Manhole Casting for Precast Manhole not in a Street R.O.W.
2. Use Harper No. 8 (330 lbs.) or Neenah No. R-1779 (300 lbs.) or Vulcan No. VM-7 (330 lbs.)



**DETAIL
TYPE "A" PIER**

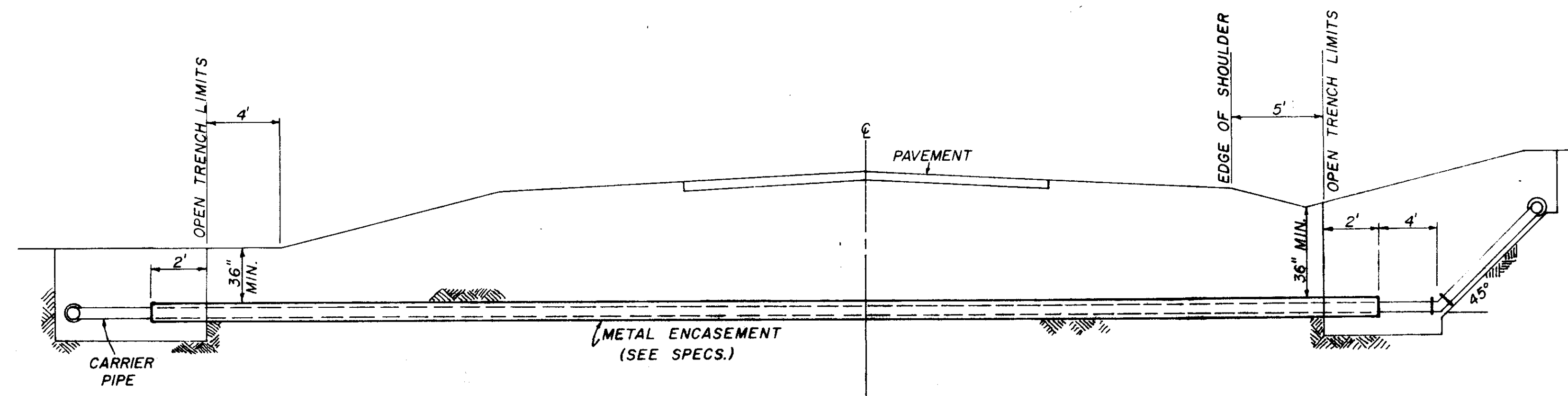


**DETAIL
TYPE "B" PIER**



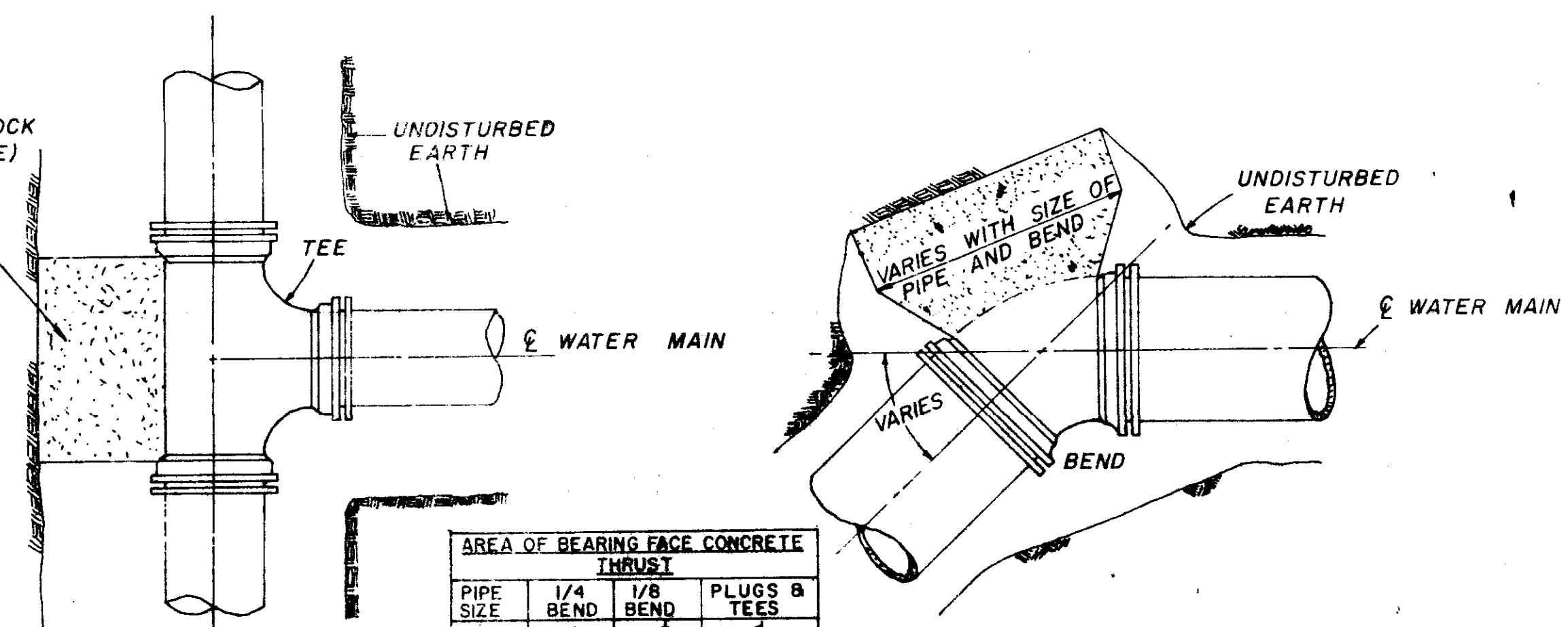
**SIDE ELEVATION
TYPE "B" PIER**

**SANITARY SEWER
STANDARD DETAILS**



TYPICAL CASED CROSSING

NOTE: COMPENSATION FOR CONCRETE TRUST BLOCKS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.

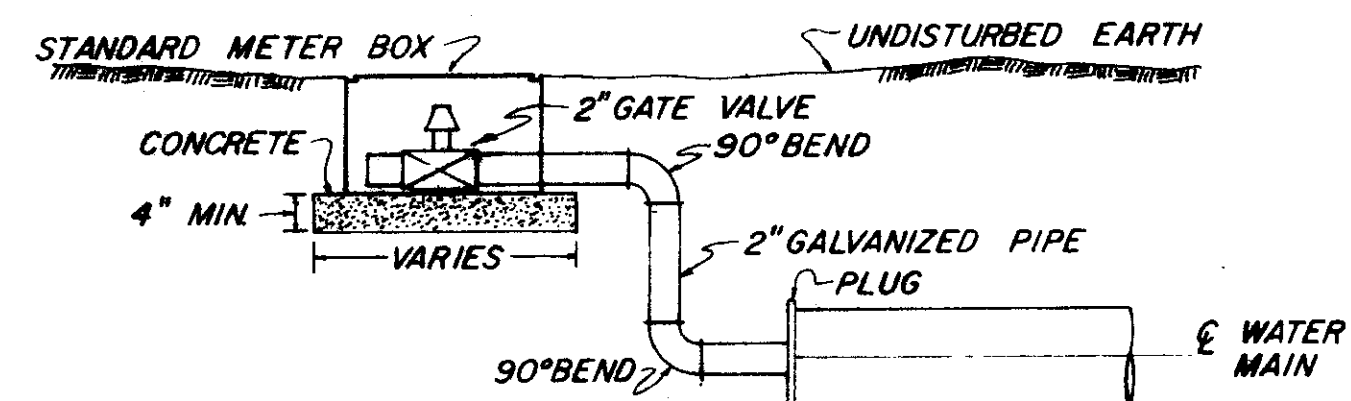


PLAN

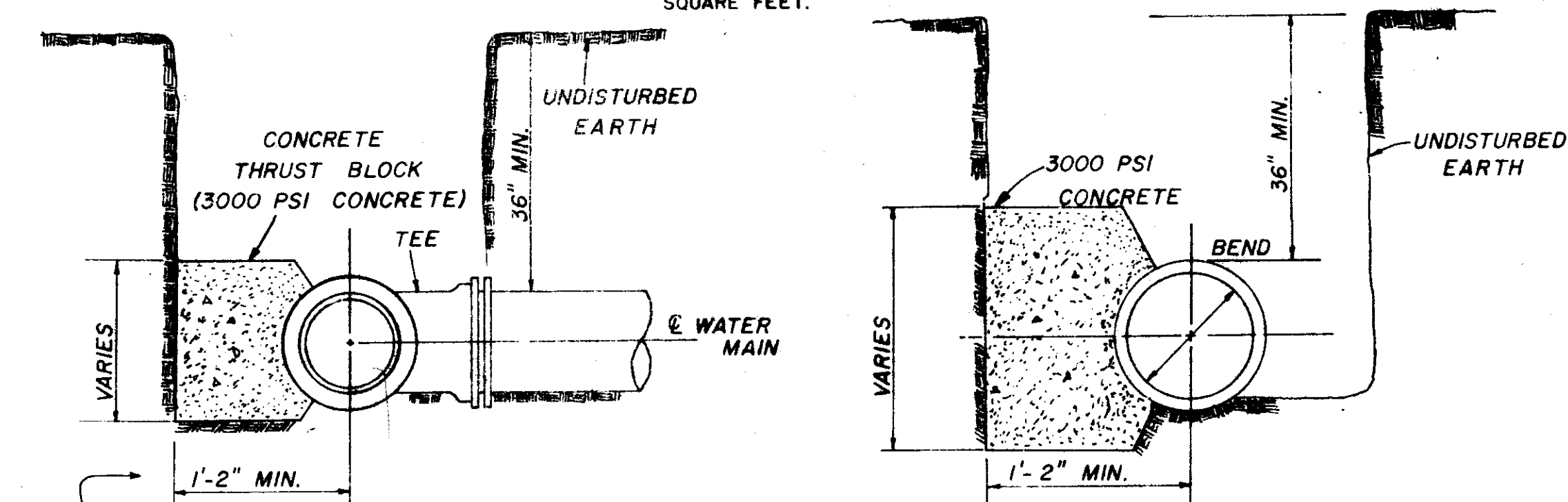
PLAN

AREA OF BEARING FACE CONCRETE THRUST			
PIPE SIZE	1/4 BEND	1/8 BEND	PLUGS & TEES
4-6	3	3	3
8	3	3	3
10	4	3	3
12	6	3	4
16	11	4	7

NOTE: AREA OF BEARING FACE IN SQUARE FEET.



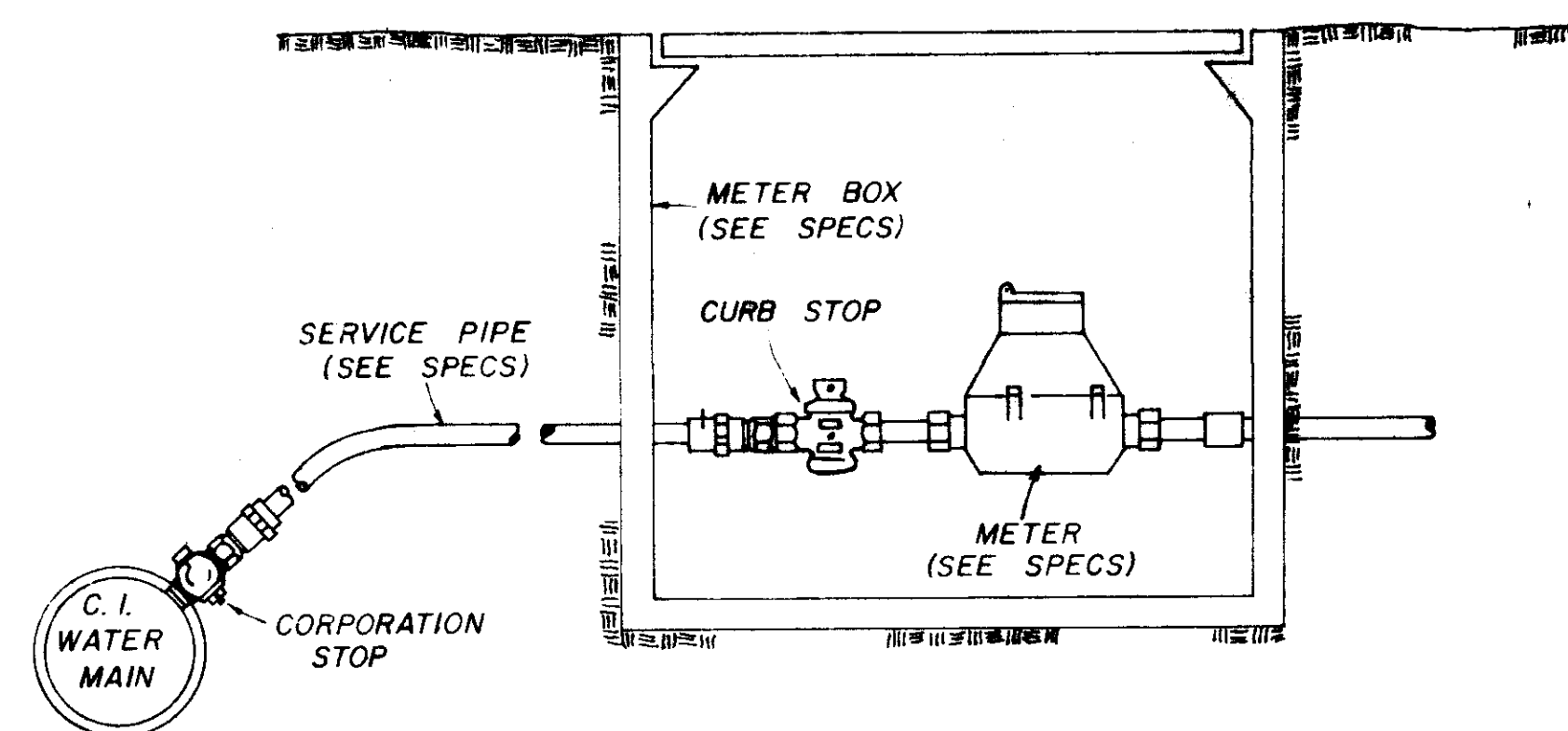
TYPICAL 2" BLOW-OFF DETAIL



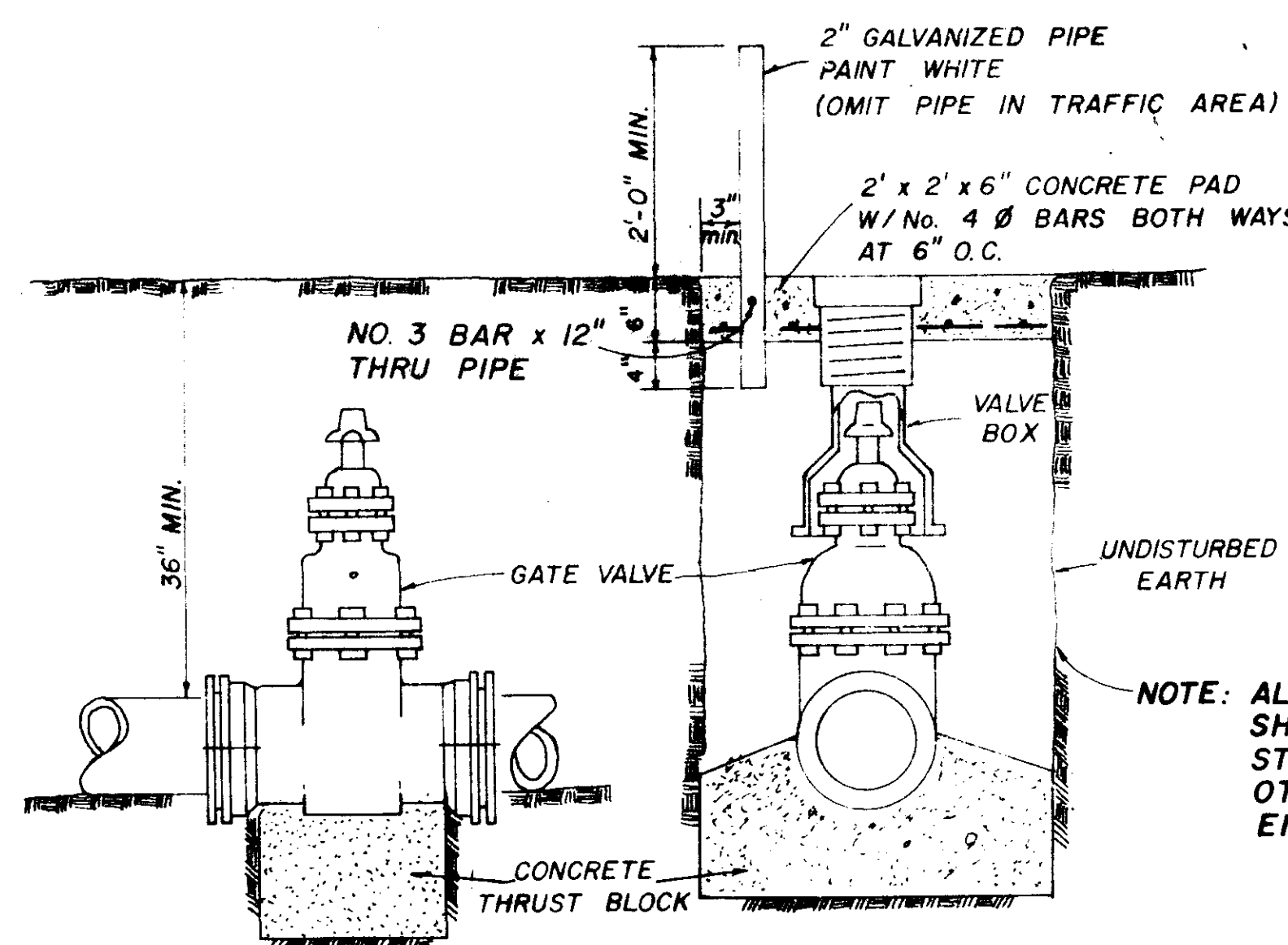
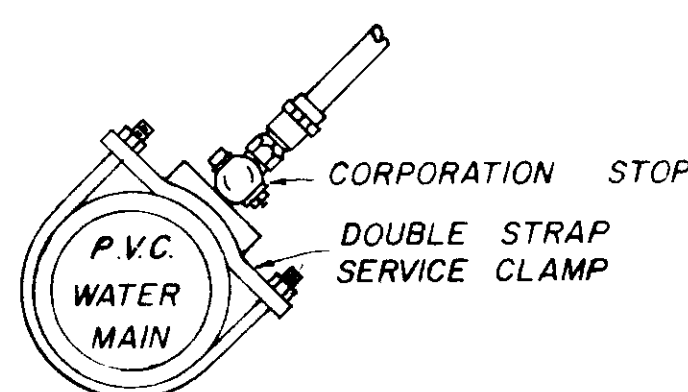
SECTION

SECTION

BLOCKING DETAILS FOR TEES & BENDS



TYPICAL SERVICE ASSEMBLY

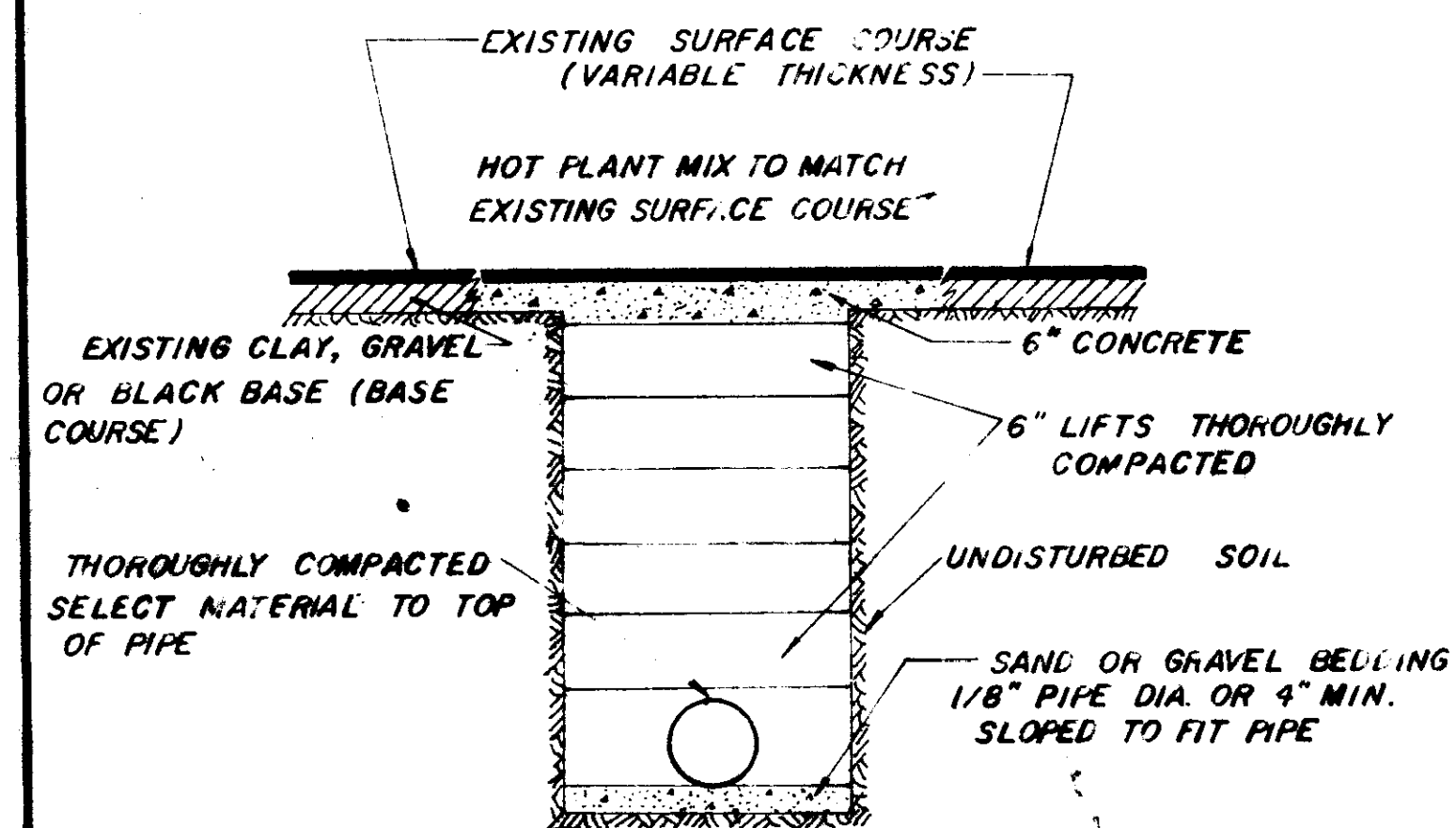


ELEVATION

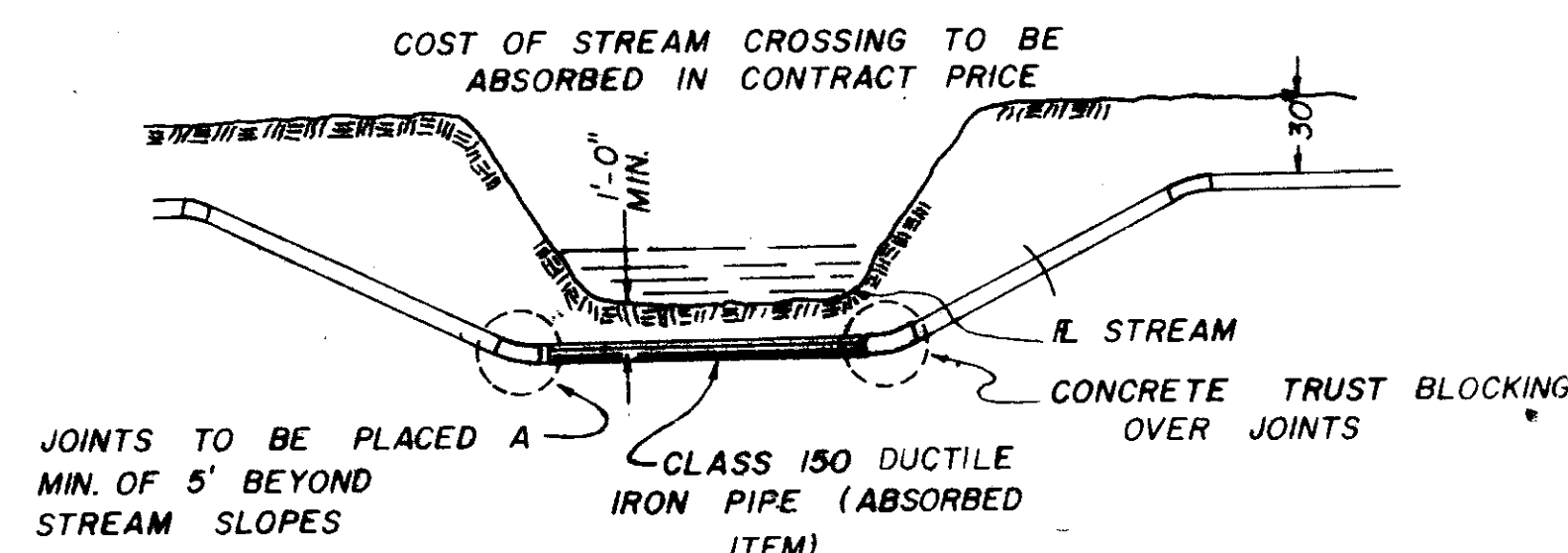
SECTION

TYPICAL VALVE & BOX

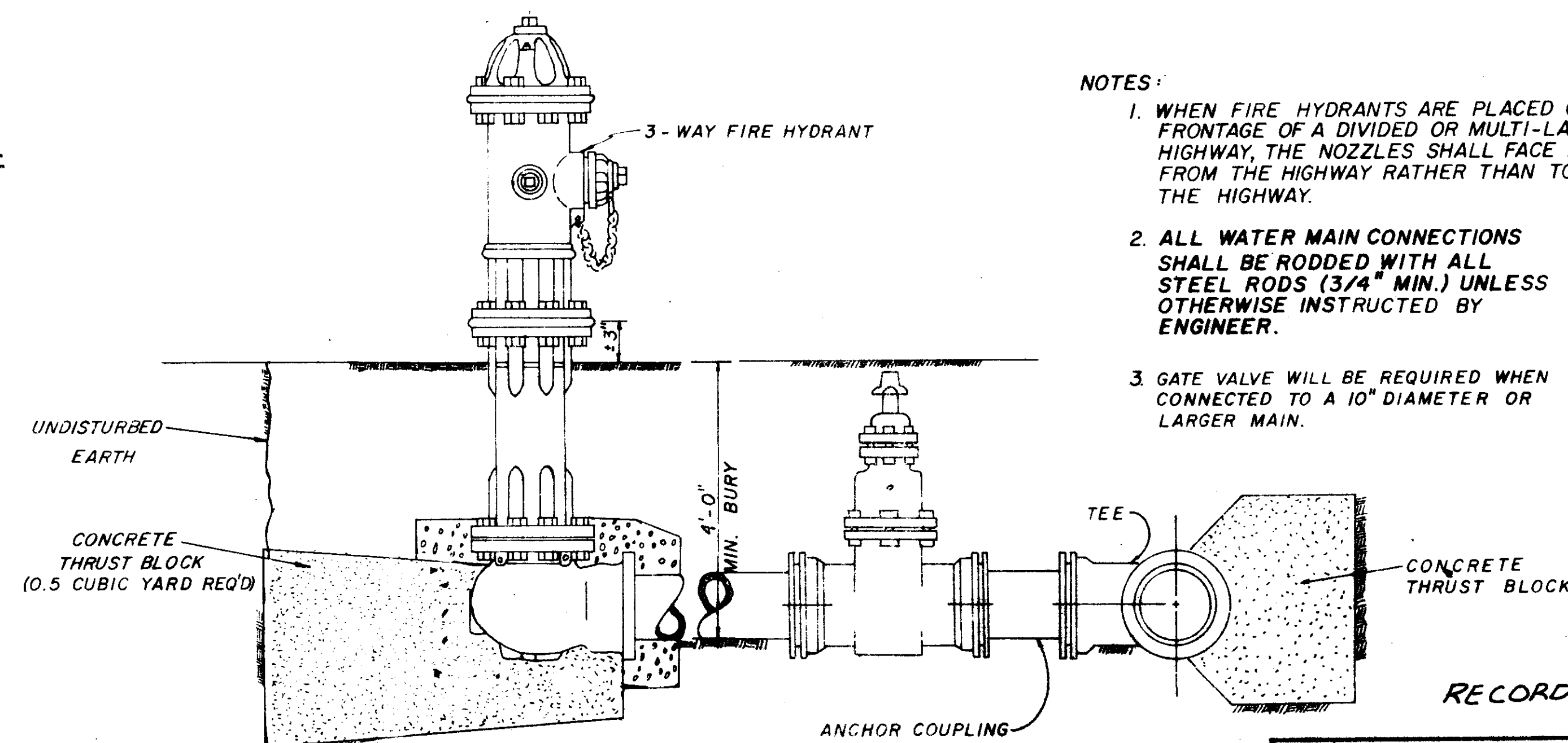
NOTE: ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STEEL RODS (3/4" MIN.) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.



STREET REPAIR OF OPEN CUT



TYPICAL STREAM CROSSING



TYPICAL FIRE HYDRANT

- NOTES:
1. WHEN FIRE HYDRANTS ARE PLACED ON THE FRONTAGE OF A DIVIDED OR MULTI-LANE HIGHWAY, THE NOZZLES SHALL FACE AWAY FROM THE HIGHWAY RATHER THAN TOWARD THE HIGHWAY.
 2. ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STEEL RODS (3/4" MIN.) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.
 3. GATE VALVE WILL BE REQUIRED WHEN CONNECTED TO A 10" DIAMETER OR LARGER MAIN.

RECORD DRAWING
9-15-88

**WATER SYSTEM
STANDARD DETAILS**

WAGGONER ENGINEERING INC.
Consulting Engineers — Jackson / Brandon, Ms.
DRAWN BY: H.D.C. DATE: MARCH 87
CHECKED BY: J.A.M. SCALE: N.T.S. 13 OF 13

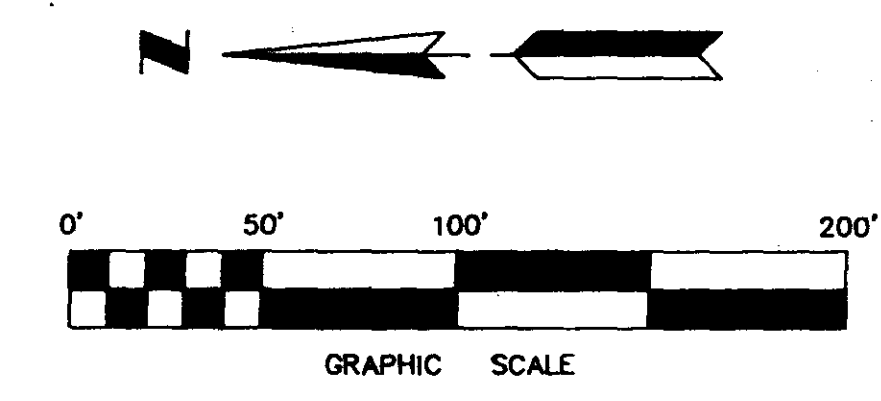
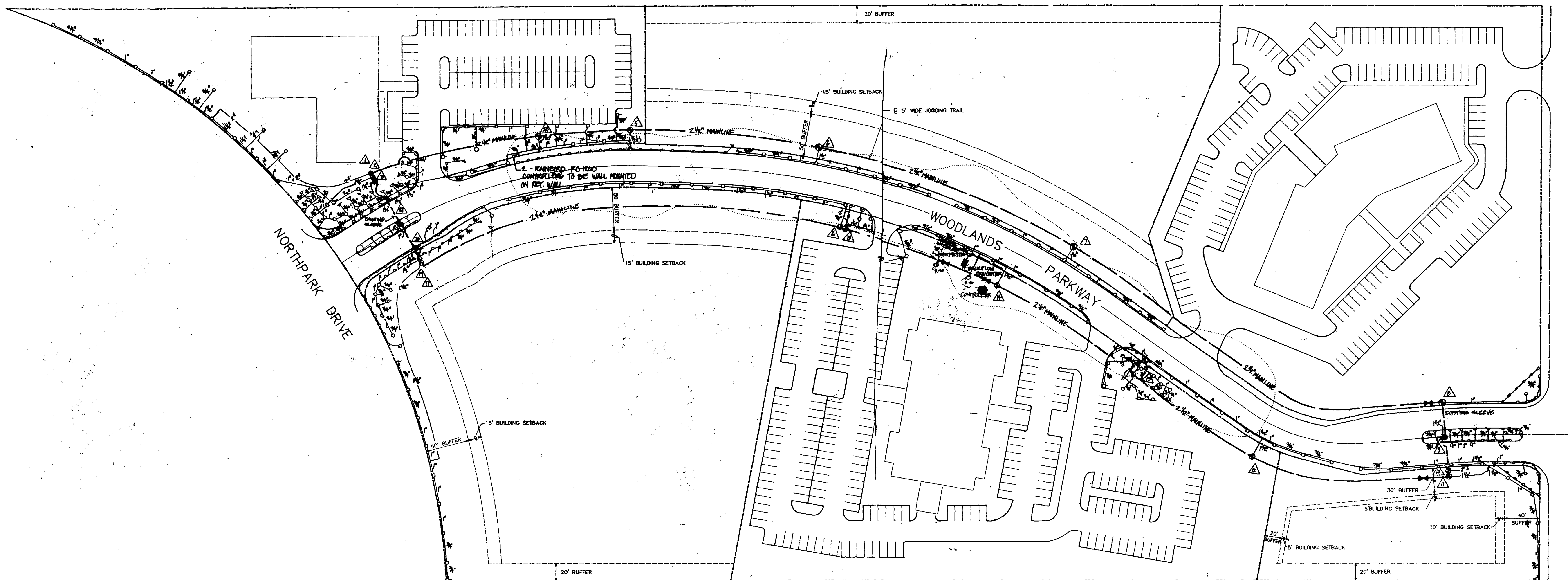
ZONE	G.P.M.	VALVE SIZE	ZONE	G.P.M.	VALVE SIZE
1	25.0	2"	12	21.5	1 1/2"
2	22.5	1 1/2"	13	24.5	1 1/2"
3	21.0	1 1/2"	14	47.5	2"
			15	44.1	1"
4	21.2	1 1/2"	16	49.3	2"
5	20.0	1 1/2"	17	28.0	1 1/2"
6	19.5	1 1/2"			
7	16.7	1"	18	41.6	1 1/2"
8	19.9	1"	19	44.1	1 1/2"
9	25.0	1 1/2"	20	44.1	1 1/2"
10	18.2	1"	21	16.7	1"
			22	46.9	2"

GENERAL NOTES


- CONTRACTOR TO PROVIDE AUTOMATIC DRAIN VALVES IN ASSOCIATION WITH SPRINGERS.
- CONTRACTOR TO PROVIDE AUTOMATIC DRAIN VALVES IN ASSOCIATION WITH SPRINGERS.
- ALL MAINLINES TO HAVE A MINIMUM OF 12" OF COVER.
- ALL LATERAL LINES TO HAVE A MINIMUM OF 12" OF COVER.
- ALL PVC TO BE CLASS 200.
- ALL LINES TO BE FLUSHED BEFORE INSTALLATION OF SPRINGERS.
- ALL HEADS TO BE NOTICED ON SPRING JOINTS AS PER MANUFACTURER'S SUGGESTIONS.
- CONTRACTOR TO UTILIZE EXISTING SLEEVES UNDER DRIVES.
- CONTRACTOR TO BORE UNDER EXISTING SIDEWALKS.
- CONTRACTOR TO PROVIDE EXPANSION COLLS FOR EACH WIRE CONNECTION TO THE VALVES.
- NO ROCKS OR OTHER EXTRANEIOUS MATERIALS TO BE USED IN BACKFILL OPERATIONS.
- CONTRACTOR TO DETERMINE ALL OTHER MATERIALS NEEDED TO COMPLETE THE JOB NOT INCLUDED ON THESE PLANS.
- CONTRACTOR TO BE RESPONSIBLE FOR MINOR DESIGN CHANGES TO ACCOMADATE PROPER COVERAGE AROUND EXISTING OBSTACLES.
- MAJOR DESIGN CHANGES MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE THE OWNER WITH CLEAR INSTRUCTIONS DEALING WITH SYSTEM OPERATION AND WITH ANY WRENCHES NECESSARY TO DISASSEMBLE EACH TYPE OF HEAD.
- CONTRACTOR TO PROVIDE THE OWNER WITH EXTRA KEYS TO THE CONTROLLERS.

LEGEND

- RAINBIRD SERIES 1004 SHROUD SPRINKLER 1/2" P
- RAINBIRD SERIES 1004 SHROUD SPRINKLER 1/2" P
- RAINBIRD SERIES 1004 SHROUD SPRINKLER 1/2" P
- RAINBIRD R-50 20" R. 1/2" ORLE 5.0 NOZZLE
- RAINBIRD R-50 20" R. QUARTER CIRCLE
- BRASS GATE VALVE
- RAINBIRD 100/150 ELECTRIC CONTROL VALVE
- ZONE DESIGNATION
- BACKFLOW PREVENTOR
- MAINLINE DESIGNATION
- RAINBIRD RC-2000 AB CONTROLLER - MOUNT ON FREESTAL
- 12" PVC. RIGIDS SHALL BE USED IN AREAS OF SHADERS OR GROUNDCOVER EXCEEDING 1" IN HEIGHT.
- MAINLINE LOCATION TO BE WITHIN WOODLANDS PARKWAY R.O.W.



Landscape Development



**WOODLANDS
OFFICE PARK**
Jackson, Mississippi

IRRIGATION PLAN

PWP 01913

OVERALL SITE PLAN

SCALE 1"=50'

REV. 6-30-87
I.F. 8-12-87
REVISED: 10/19/87
REVISED: 12-01-87

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