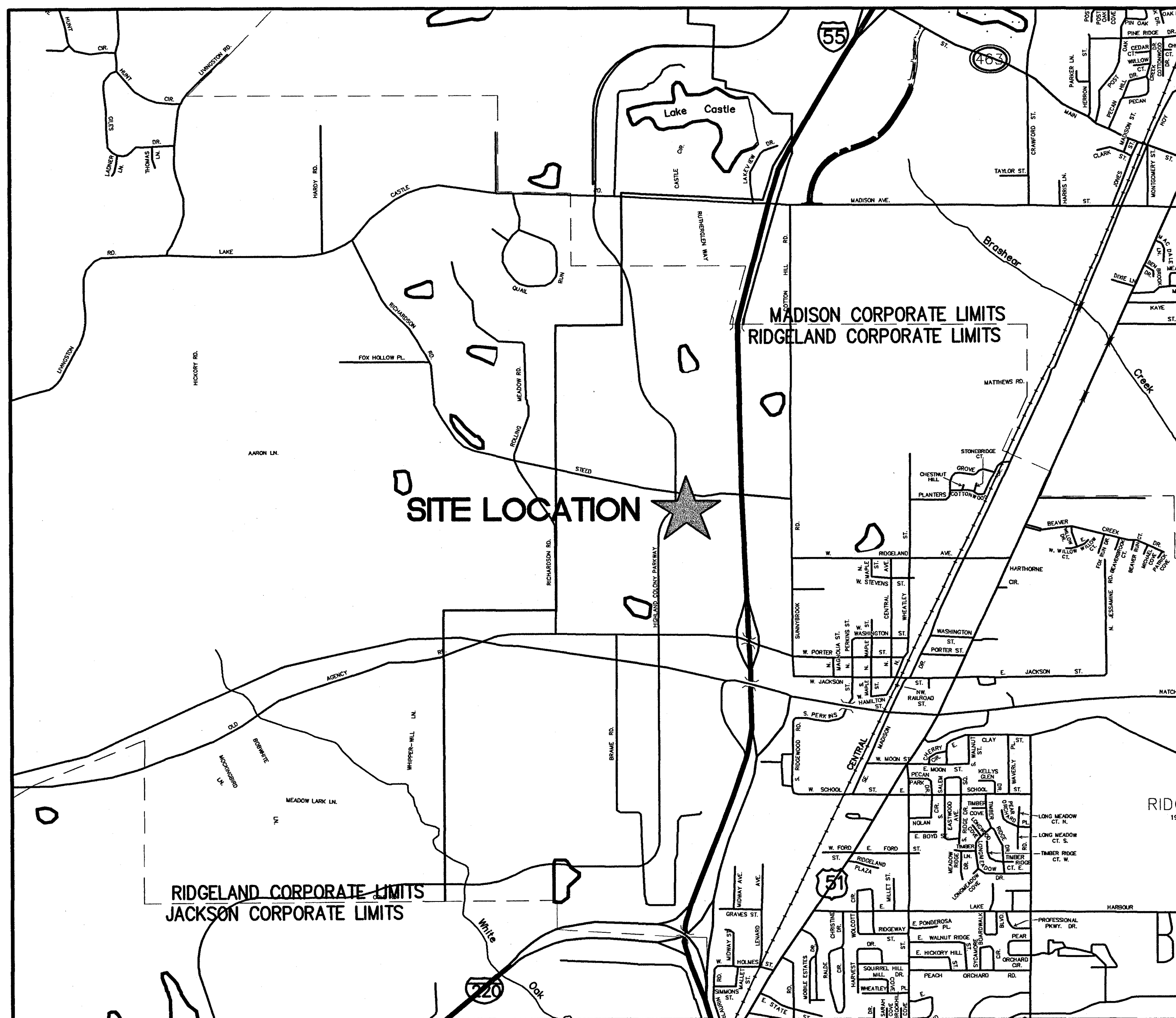
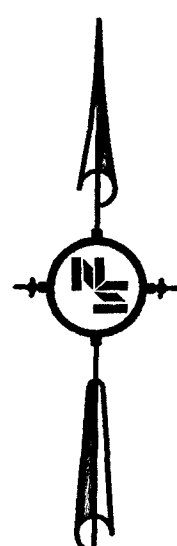


HIGHLAND COLONY PARKWAY AT STEED RD. AREA TIF IMPROVEMENTS

RIDGELAND MADISON COUNTY, MISSISSIPPI APRIL, 2005

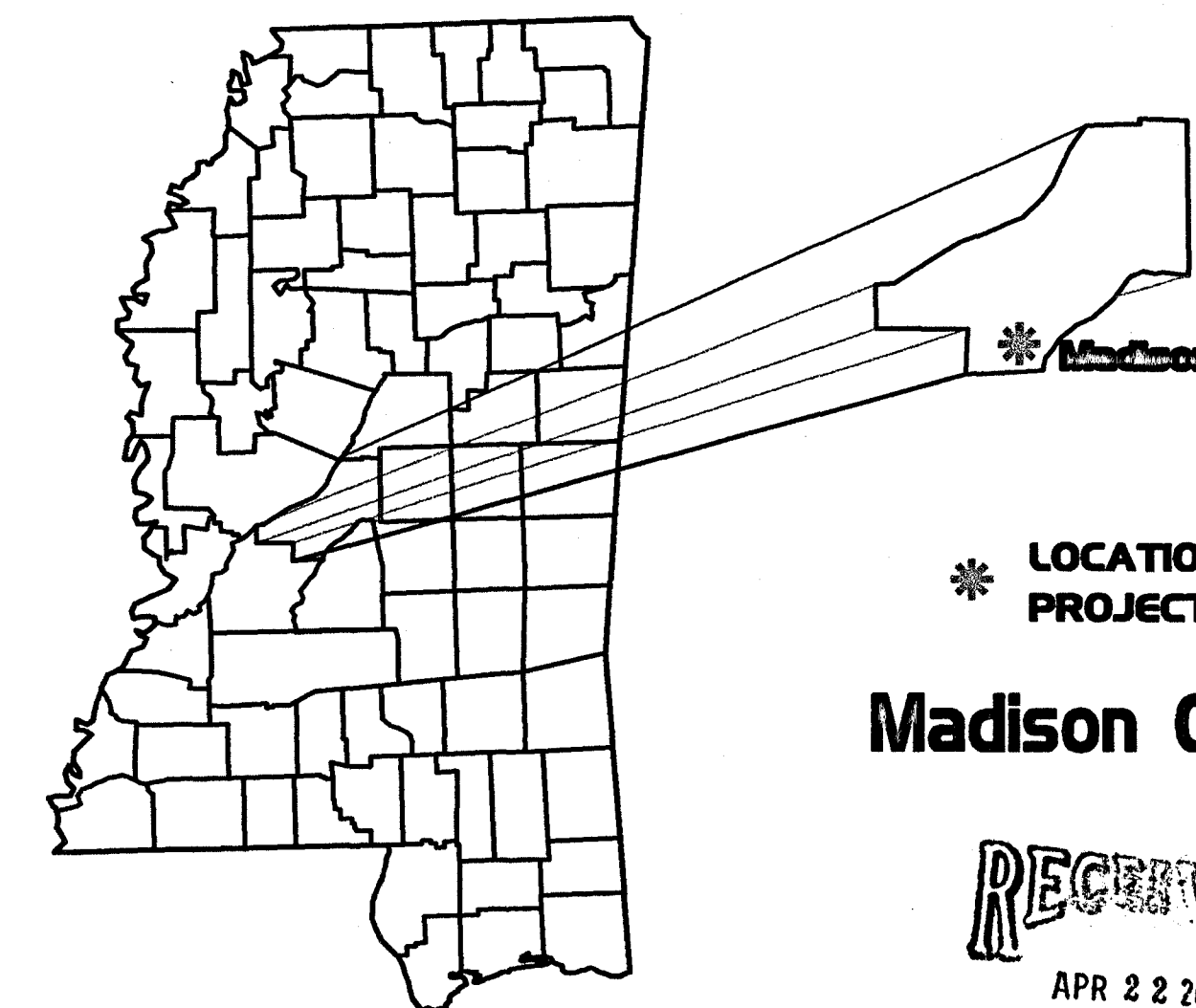
INDEX OF DRAWINGS

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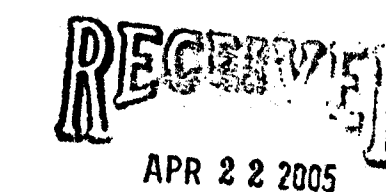


VICINITY MAP
NOT TO SCALE

LOCATION MAP



* LOCATION OF
PROJECT AREA
Madison County



PUBLIC WORKS DEPT

DESIGN CONTROL	RECEIVED
45 MPH = V (SPEED DESIGN)	APR 21 2005
ADT(2005) = 8,700 ADT(2025) = 15,250	COMMUNITY DEV DEPT
DHV = 940 D = 58% T = 3	OTHER COPY
	PLANNING DIVISION

ALL WORK DEPICTED ON THESE PLANS IS INCLUDED
IN TIF CONTRACT.

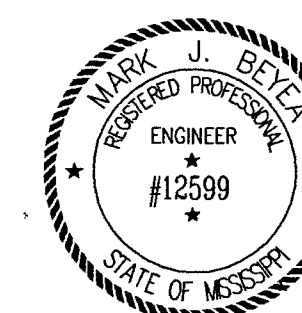
PW Director *Redman 5-8-05*
Traffic Engineer *DW-4-25-05*
Drainage Engineer *CS 5/2*
Fire Official *JFK 5-4-05*
Police Official _____

Site plans will not go forward to the
Architectural Review Board or the Mayor
and Board of Aldermen prior to the above
review.

PREPARED FOR

HIGHLAND COLONY LAND COMPANY, LLC

PREPARED BY



N.S. ACCOUNT NO. 05651.001

PWP-00847

GENERAL NOTES:

1. All unsurfaced areas are to receive topsoil, seed and mulch as indicated on the vegetation schedule and be watered until a healthy stand of grass is obtained, unless indicated otherwise.
2. The contractor is responsible for repairs of damage to any existing improvements during construction, such as, but not limited to, drainage, utilities, pavement, striping, curbs, etc. repairs shall be equal to better than existing conditions.
3. Contractor shall match existing pavement in grade and alignment, at connections to city streets.
4. Construction shall comply with all governing codes and be constructed to the same.
5. All striping, signing and traffic control devices and installations, whether temporary or permanent, shall comply with the Manual on Uniform Traffic Control Devices, latest edition.
6. The geotechnical report referred to on these drawings shall be the report prepared by Soiltech, Inc., entitled "Geotechnical Investigation, Highland Colony Parkway and Steed Road Widening" Ridgeland, Mississippi (Report No. 1100.01) dated Feb. 15, 2005. The project site shall be cleared, grubbed and proof-rolled in accordance with the recommendations contained in the geotechnical report.
7. Horizontal Datum on these plans is based upon a local project system.
8. Vertical Datum on these plans is based on NGVD 29. See benchmark information on this sheet.
9. Construction survey and staking shall be the responsibility of the contractor.
10. The governing specifications for this project shall be the Mississippi Standard Specifications For Road And Bridge Construction, 2004 Edition. Copies of this publication may be purchased from the Mississippi Department of Transportation.
11. Geotextile fabric for bridging shall be Mirafi 600x or equal.
12. Sand for bridging shall be a granular material having a maximum of 15% passing the no. 200 sieve and shall be placed and compacted in accordance with the geotechnical report.
13. Borrow material shall be placed, compacted and tested in accordance with the recommendations contained in the geotechnical report.
14. It may be necessary for the contractor to dewater excavations and construct temporary dikes and diversion ditches in order to construct portions of the work included in this contract. Cost of dewatering and temporary drainage shall be absorbed in other items.
15. Burning of debris shall not be allowed.
16. Existing conditions, boundary lines and utilities are based on a survey by Case and Associates.

UTILITIES NOTES

1. The Contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies, and where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.
2. Contractor shall be responsible for calling Mississippi-One Call at 1-800-227-6477 to verify all existing utilities. Contractor shall be responsible for damages to existing utilities to remain and for all interruptions caused by a result of his work.
3. Waterlines shall be installed at least 10' horizontally and 18" vertically from sanitary sewer lines.
4. Waterlines shall be ductile iron (Pressure Class 150) pipe.
5. Water lines shall be buried at depths which will provide a minimum of 30" cover over the top of the pipe.
6. All joints in waterlines shall have restrained joint mechanical couplings.

DRAINAGE NOTES

1. Precast inlets, of the MDOT SS-2 type, and junction boxes may be substituted for cast-in-place structures. Any precast structures shall be designed for HS-20 highway loading.
2. Reinforced Concrete Pipe shall be Class III unless otherwise indicated.
3. HDPE pipe shall be smooth lined type meeting the requirements for Type S under AASHTO M 294.

EROSION CONTROL NOTES:

1. Silt fence and hay bales shall be installed around all storm sewer inlets and as shown on plans. These shall be maintained in good condition until pavement is installed or vegetation is well established in area surrounding inlet.
2. All areas, other than area to be paved, where the ground is disturbed shall receive topsoil, fertilizer, lime seeding and mulch as indicated in the vegetation schedule unless otherwise noted.

PERMITS:

1. Contractor shall prepare, maintain and adhere to a storm water pollution prevention plan in accordance with the Mississippi Department of Environmental Quality Storm Water Small Construction General NPDE Permit instructions contained in the Contract documents. The Storm Water Pollution Prevention Plan shall include all erosion control measures shown on these plans.
2. All other permits shall be obtained by the Contractor prior to start if any work.
3. Work within the right-of-way of Interstate Highway 55 may not be started until a permit is obtained from the Mississippi Department of Transportation. The Owner has made application for the permit and will notify the Contractor when the permit has been approved. A copy of the permit application is included in the contract documents.

MEASUREMENT AND PAYMENT

1. All work depicted on these plans shall be paid as a lump sum. All references to measurement and payment based on unit prices shall be null and void.

UTILITY OWNERSHIP

ELECTRIC POWER - ENTERGY
 TELEPHONE - BELL SOUTH TELECOMMUNICATIONS
 NATURAL GAS - CENTERPOINTE ENERGY/ENTEX
 SANITARY SEWER - CITY OF RIDGELAND
 WATER - CITY OF RIDGELAND
 CABLE TELEVISION - TIME WARNER, INC.

CONTACT

MIKE FERREL (601)-925-6519
 AL WALLACE (601)-944-1446
 CHERYL MITCHELL (601)-856-9348
 SID HAWTHORNE (601)-853-2027
 SID HAWTHORNE (601)-853-2027
 GARY CARLSON (601)-832-3668

BENCHMARK DATA

ELEVATION BENCHMARKS ARE LOCATED AS FOLLOWS: SEE OVERALL

TBM #	DESCRIPTION	ELEVATION
1	SQUARE CUT IN THE NE CORNER OF H'WALL ON BOX CULV'T. UNDER STEED ROAD. NGVD 29	357.66
2	TOP OF NW ANCHOR BOLT ON 6th LIGHT POST SOUTH OF STEED RD. NGVD 29	352.74
3	SQUARE CUT ON THE NE CORNER OF H'WALL ON BOX CULV'T. UNDER HIGHLAND COLONY P'WAY. NGVD 29	349.58
4	TOP OF EAST ANCHOR BOLT ON "MERGE LEFT" SIGN AT THE NE COR. OF INTERSECTION OF OLD AGENCY RD. AND HIGHLAND C. P'WAY. NGVD 29	344.12

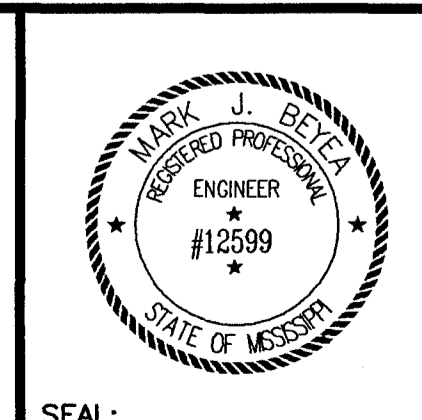
VEGETATION SCHEDULE					
EROSION CONTROL ITEMS	SEASONAL APPLICATIONS-DATES & RATES				REQUIREMENTS
	SPRING & SUMMER		FALL & WINTER		
ITEMS	RATES	DATES	RATES	DATES	
TOPSOIL FOR SLOPE TREATMENT	4"	MARCH 1 TO SEPTEMBER 1	4"	SEPTEMBER 1 TO MARCH 1	PROVIDE TOPSOIL ON AREA TO RECEIVE SOLID SOD OR SEEDING
STANDARD 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.
AGRICULTURAL LIMESTONE	2 TONS/ACRE	MARCH 1 TO SEPTEMBER 1	2 TONS/ACRE	SEPTEMBER 1 TO MARCH 1	LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
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.
SOLID SOD		MARCH 1 TO SEPTEMBER 1		SEPTEMBER 1 TO MARCH 1	MATCH SOD TYPE ON 100 RENAISSANCE OFFICE BUILDING SITE
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.
SEEDING (TALL FESCUE)			20 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS.
SEEDING (ANNUAL RYE)			20 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS.
VEGETATIVE MATERIAL FOR MULCH	3 TONS ACRE (EST.)	MARCH 1 TO SEPTEMBER 1	3 TONS/ACRE (EST.)	SEPTEMBER 1 TO MARCH 1	

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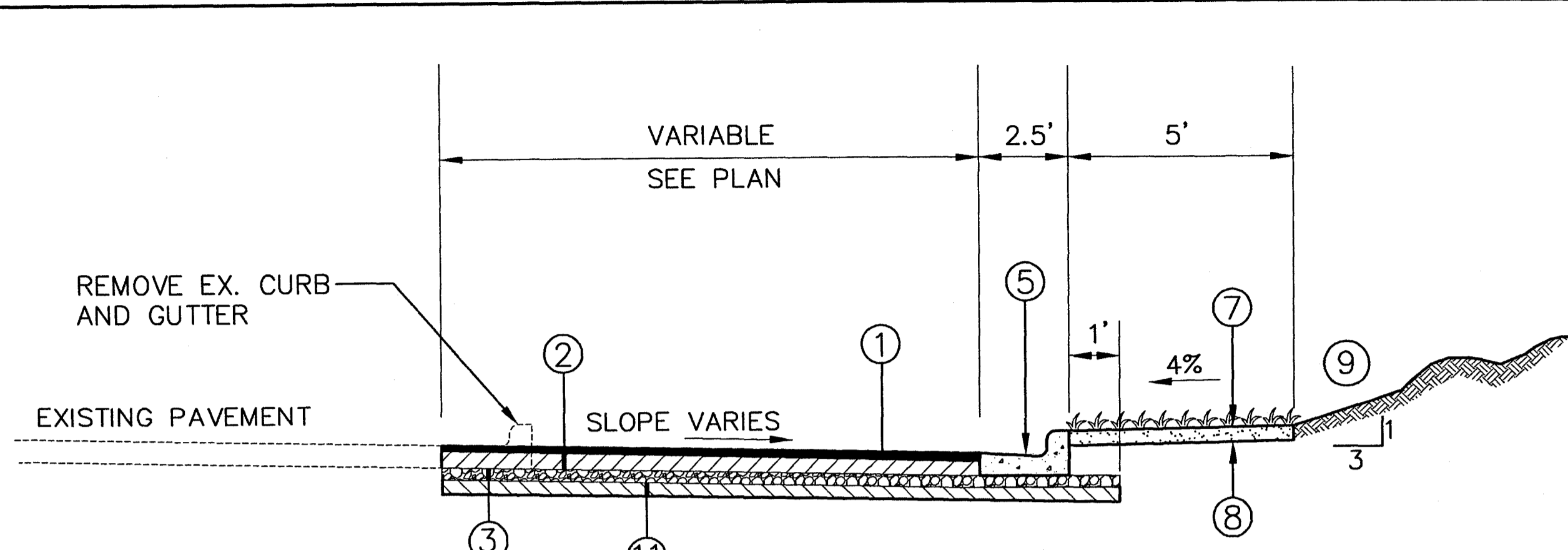
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DRWN: M.A.L.	DATE: 01/24/05
CHKD:	DATE:
QA/QC:	DATE:

**HIGHLAND COLONY PARKWAY
 AT STEED ROAD AREA TIF IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001**

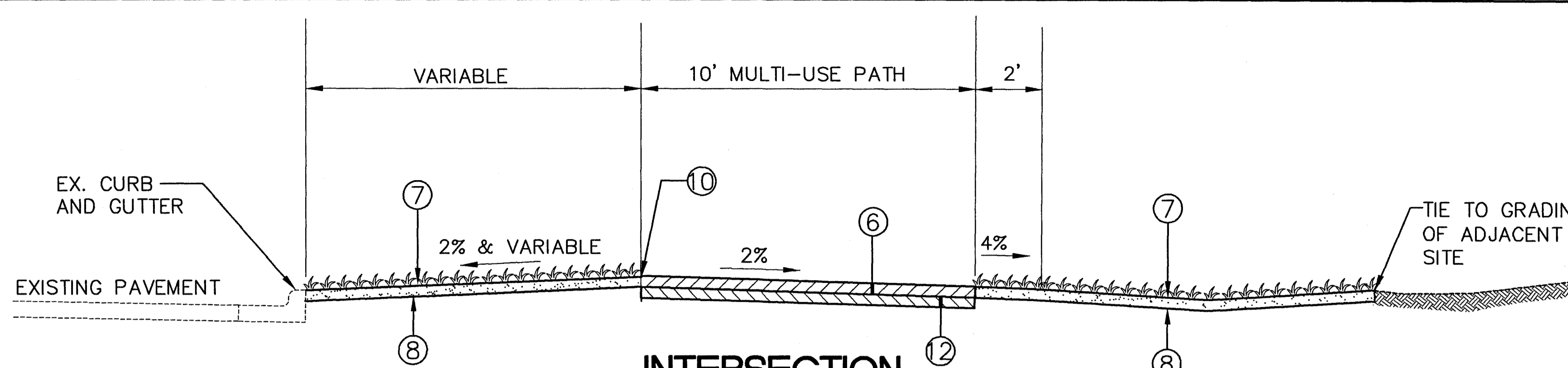


NEEL-SCHAFFER
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 PH: (601)948-3071 / FAX: (601)948-3178

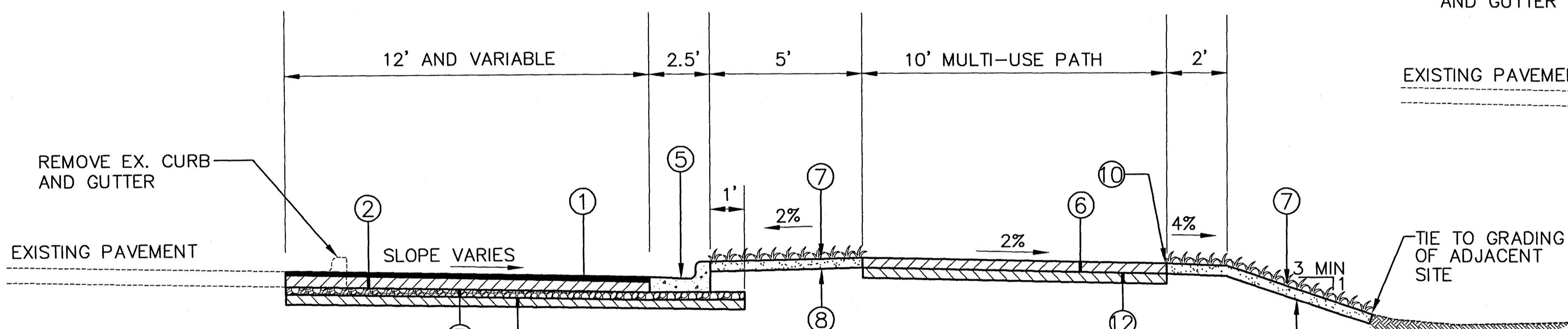
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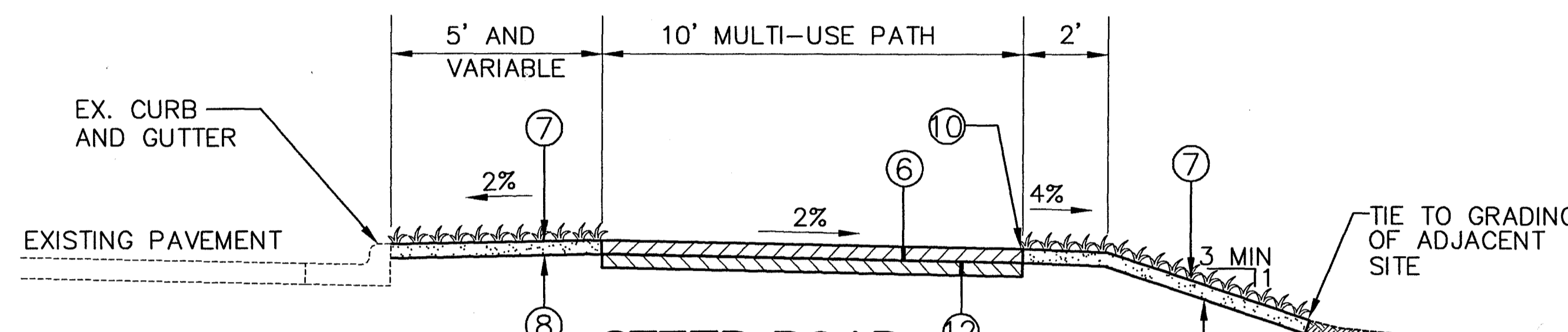
**STEED ROAD
TYPICAL SECTION-ALTERNATE 1
STA. 26+10.45 - STA. 29+48.00**



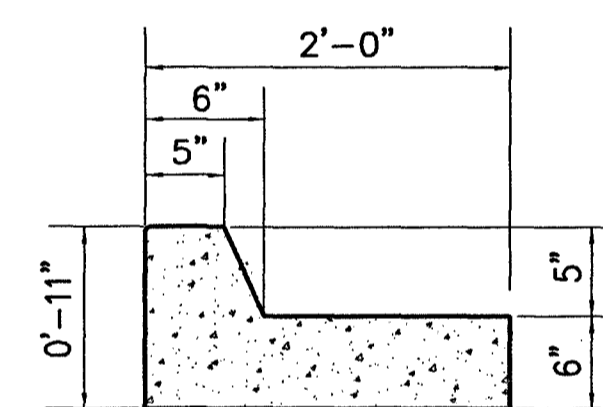
**INTERSECTION
TYPICAL SECTION-ALTERNATE 1
STA. 19+60.00 - STA. 21+94.19**



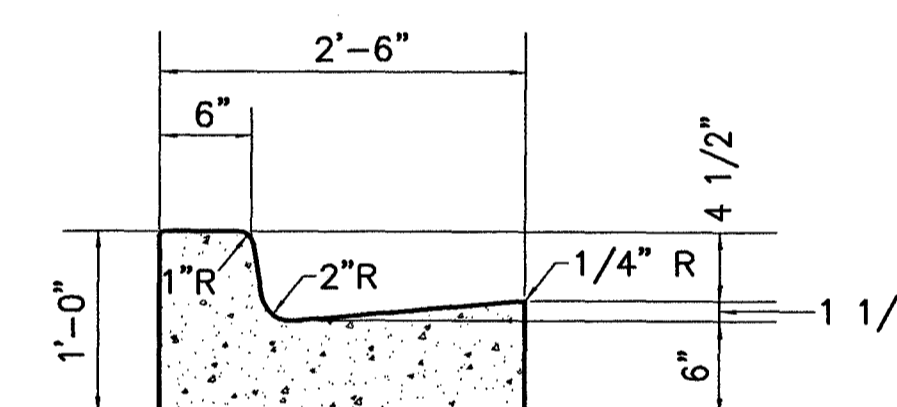
**STEED ROAD
TYPICAL SECTION-ALTERNATE 1
STA. 23+09.14 - STA. 26+10.45**



**STEED ROAD
TYPICAL SECTION-ALTERNATE 1
STA. 21+94.19 - STA. 23+09.14**



TYPE 1 CURB AND GUTTER
N.T.S.

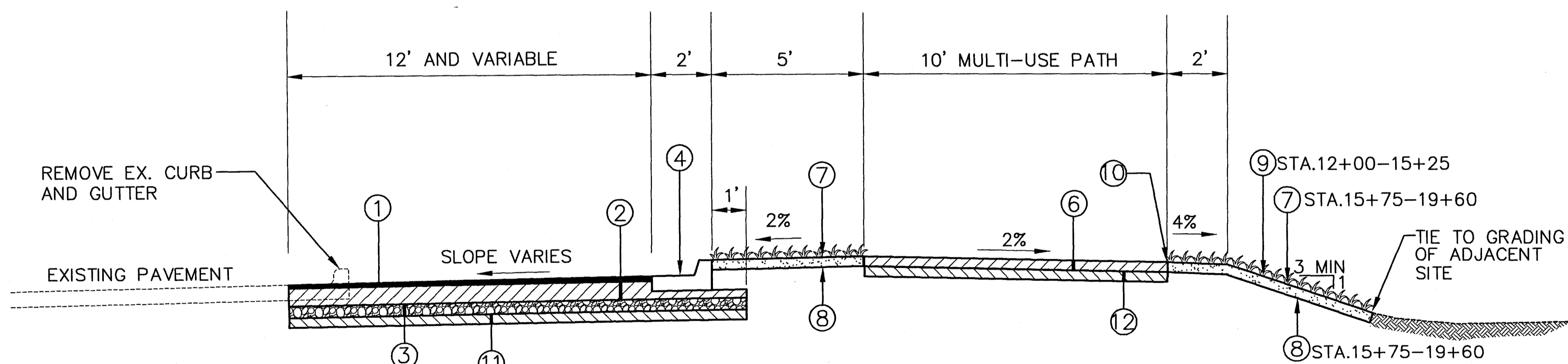


TYPE 2 CURB AND GUTTER
N.T.S.

CONCRETE SHALL BE MDOT CLASS B
PROVIDE SCORED CONTROL JOINTS AT
20' MINIMUM AND EXPANSION JOINTS
AT 60' MINIMUM.

CONCRETE SHALL BE MDOT CLASS B
PROVIDE SCORED CONTROL JOINTS AT
20' MINIMUM AND EXPANSION JOINTS
AT 60' MINIMUM.

- ① 1 1/2" HOT MIX ASPHALT, 9.5mm MIXTURE (MT)(1@ 1 1/2")
- ② 6" HOT MIX ASPHALT, 19.0mm MIXTURE(2@ 3" OR 2@ 2 1/4" AND 1@ 1 1/2")
- ③ 7" CRUSHED LIMESTONE, NO. 610
- ④ STANDARD CURB AND GUTTER (TYPE 1)
- ⑤ STANDARD CURB AND GUTTER (TYPE 2)
- ⑥ 4" THICK FIBER REINFORCED CONCRETE (STAINED)
(SEE SPECIAL PROVISIONS FOR COLOR)
- ⑦ SOLID SOD (EXCEPT AS SHOWN OTHERWISE ON PLANS)
MATCH SOD TYPE ON 100 RENAISSANCE OFFICE BUILDING SITE.
- ⑧ 4" TOPSOIL
- ⑨ AREA TO BE VEGETATED PER VEGETATION SCHEDULE.
- ⑩ TOP OF SOD SHALL BE 1" BELOW FINISHED EDGE OF PATH.
- ✓ ⑪ 8" LIME TREATED SUBGRADE
- ✓ ⑫ 6" SCARIFIED AND COMPACTED SUBGRADE



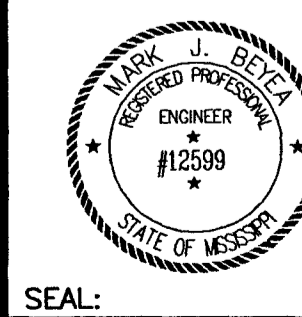
**HIGHLAND COLONY PARKWAY
TYPICAL SECTION-ALTERNATE 1
STA. 12+00 - STA. 19+60.00**

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NO.	DATE	BY	DESCRIPTION

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QA/QC:	

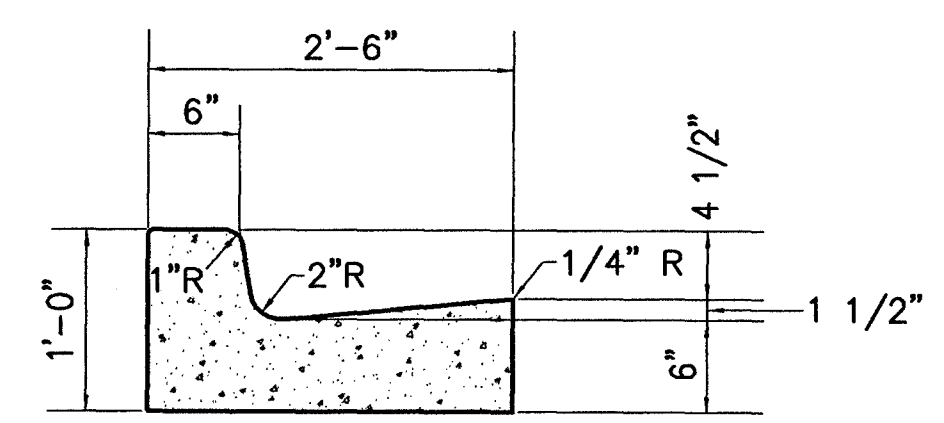
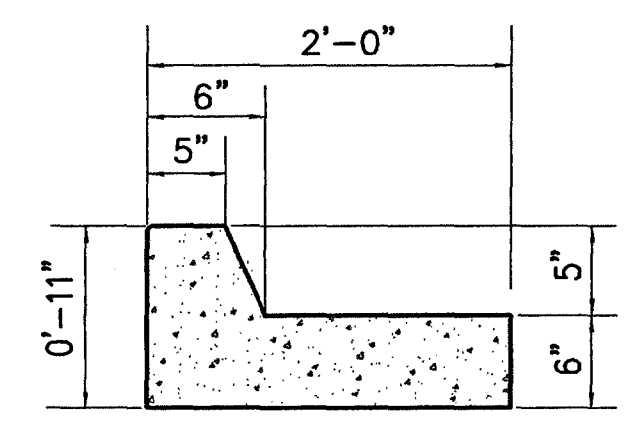
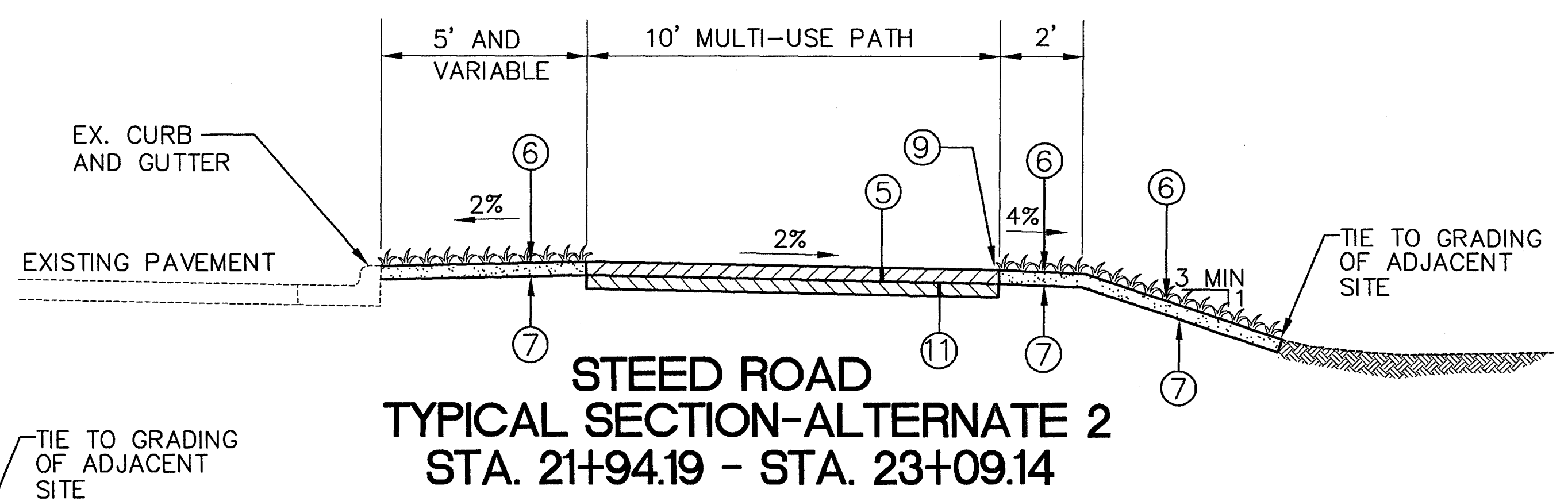
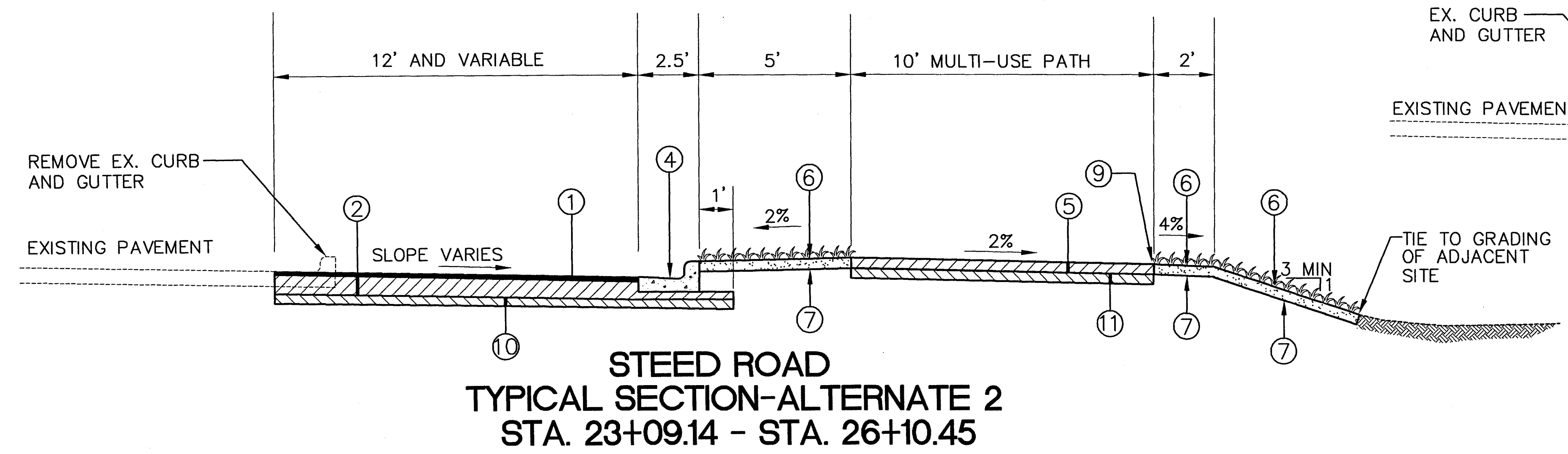
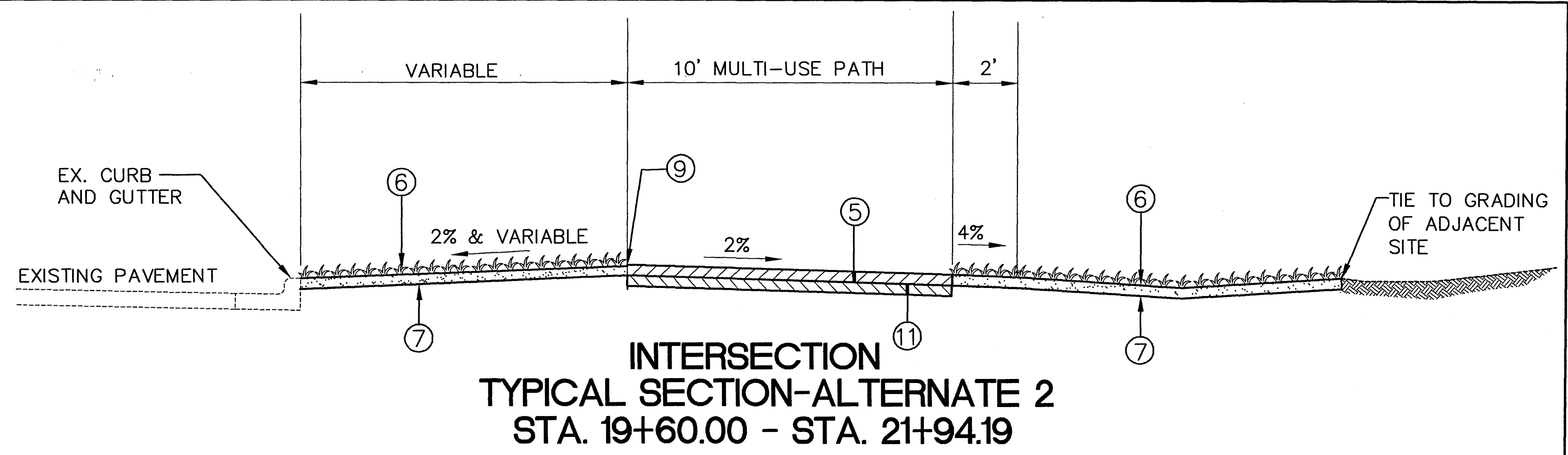
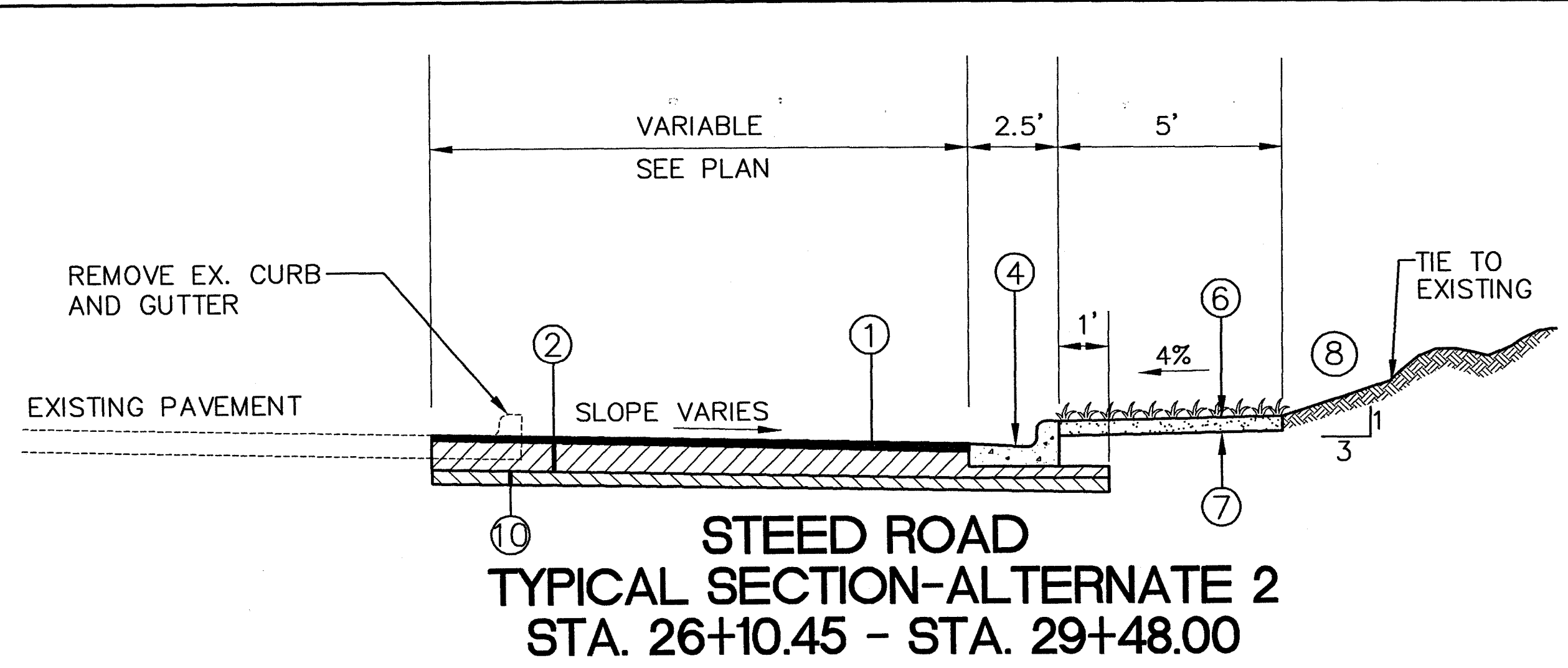
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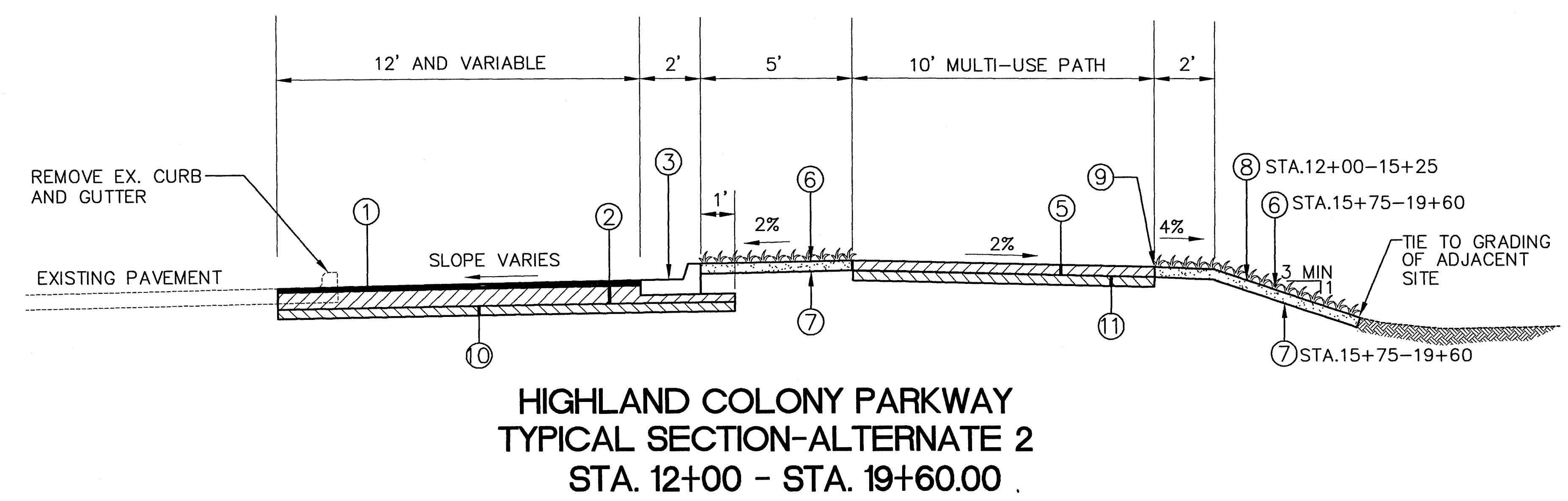
**TYPICAL SECTION-ALTERNATE 1
HIGHLAND COLONY PARKWAY
AT STEED RD. INTERSECTION**

WORKING NUMBER: TS-1
DRAWING NUMBER: 3



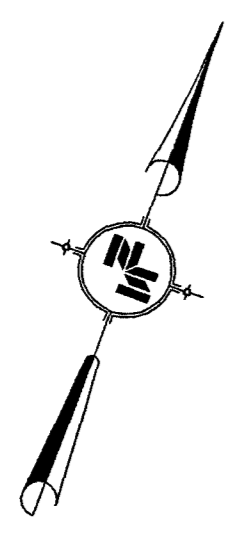
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<p>NOTICE TO DRAWING HOLDER</p> <p>NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS				NO.	DATE	BY	DESCRIPTION													<p>DRAWING INFORMATION</p> <p>N-S PROJECT NO.: 5651.001 FILENAME: 5651TYP.DWG CADD TYPE: Autocad 2002 SURVEYED BY: M.J.B. DSGN: M.J.B. DATE: 01/24/05 DRWN: M.A.L. DATE: 01/24/05 CHKD: DATE: QA/QC: DATE: </p>	<p>HIGHLAND COLONY PARKWAY AT STEED ROAD AREA TIF IMPROVEMENTS N.S. ACCOUNT NO. 05651.001</p>		<p>NEEL-SCHAFFER</p> <p>P.O. Box 22625 / 39225-2625 686 North Street, Suite 201 Jackson, MS 39202 PH: (601)948-3071 / FAX: (601)948-3178</p>	<p>TYPICAL SECTION-ALTERNATE 2 HIGHLAND COLONY PARKWAY AT STEED RD. INTERSECTION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">WORKING NUMBER: TS-2</td> <td style="width: 50%;">DRAWING NUMBER: 3A</td> </tr> </table>	WORKING NUMBER: TS-2	DRAWING NUMBER: 3A
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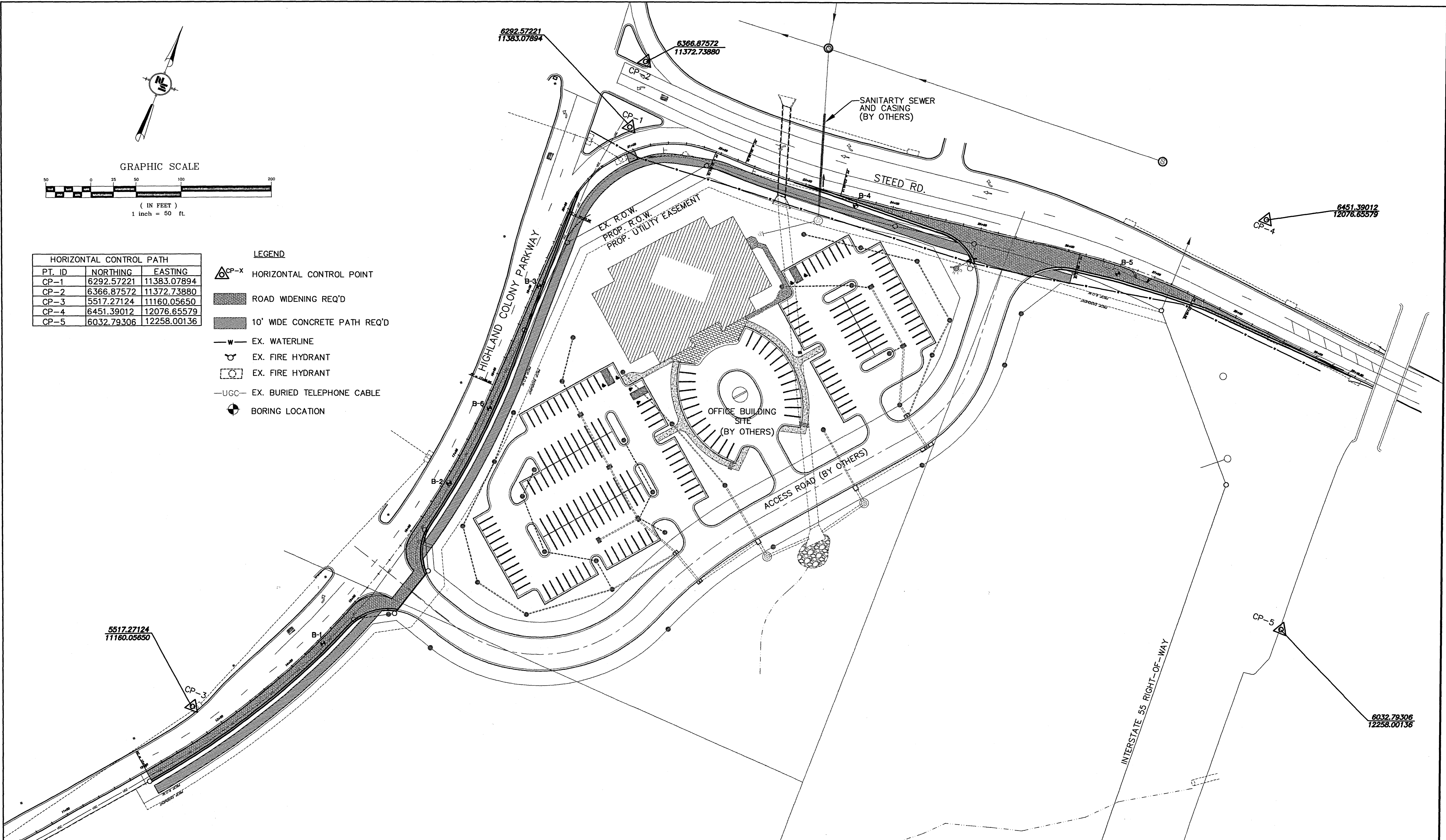
GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

HORIZONTAL CONTROL PATH		
PT. ID	NORTHING	EASTING
CP-1	6292.57221	11383.07894
CP-2	6366.87572	11372.73880
CP-3	5517.27124	11160.05650
CP-4	6451.39012	12076.65579
CP-5	6032.79306	12258.00136

- LEGEND**
- HORIZONTAL CONTROL POINT
 - ROAD WIDENING REQ'D
 - 10' WIDE CONCRETE PATH REQ'D
 - EX. WATERLINE
 - EX. FIRE HYDRANT
 - EX. BURIED TELEPHONE CABLE
 - BORING LOCATION

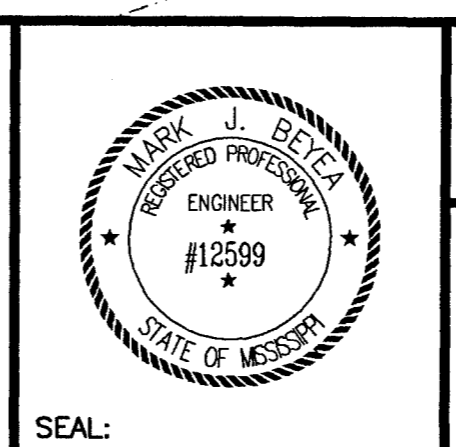


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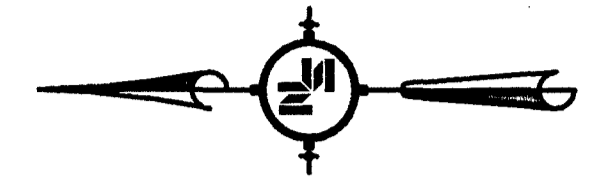
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SURVEYED BY:	
DSGN:	M.J.B. DATE: 2/15/04
DRWN:	M.A.L. DATE: 2/15/04
CHKD:	DATE:
QA/QC:	DATE:

**HIGHLAND COLONY PARKWAY
N.S. ACCOUNT NO. 05651.001**



NEEL-SCHAFFER
P.O. Box 22625 / 39225-2625
666 North Street, Suite 201
Jackson, MS 39202
PH: (601)948-3071 / FAX: (601)948-3178

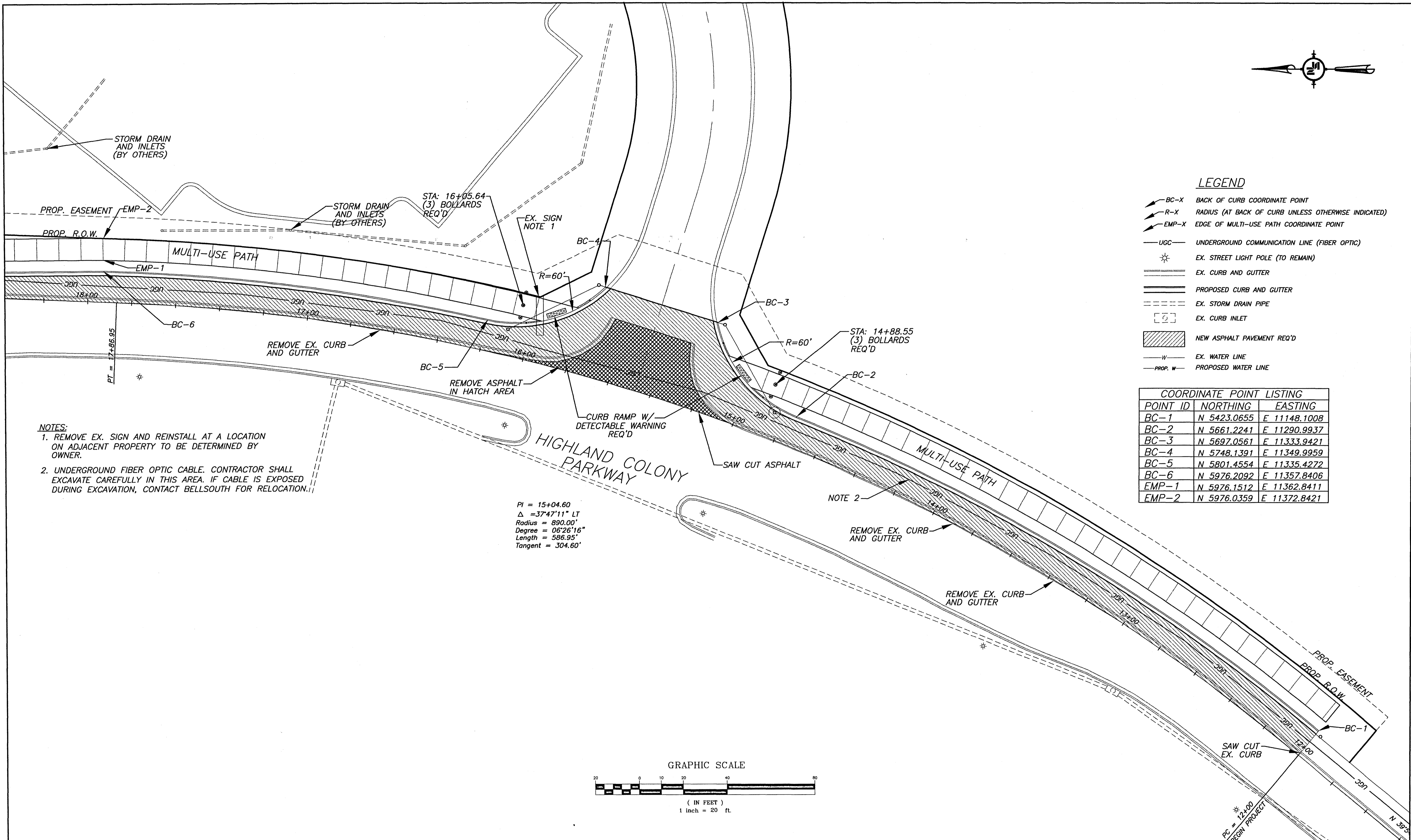
OVERALL PROJECT PLAN	
WORKING NUMBER: OP-1	DRAWING NUMBER: 4



LEGEND

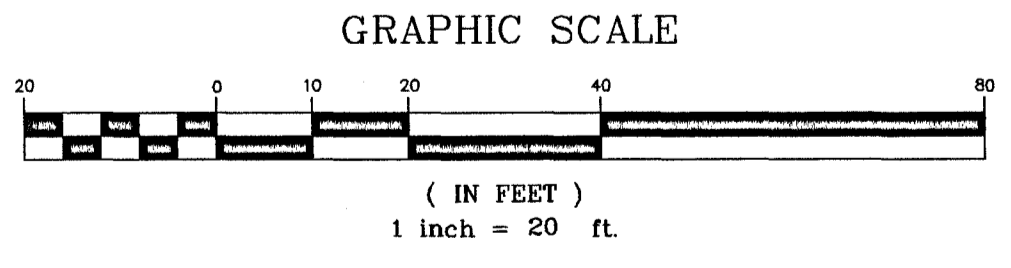
- BC-X BACK OF CURB COORDINATE POINT
- R-X RADIUS (AT BACK OF CURB UNLESS OTHERWISE INDICATED)
- EMP-X EDGE OF MULTI-USE PATH COORDINATE POINT
- UGC UNDERGROUND COMMUNICATION LINE (FIBER OPTIC)
- ☼ EX. STREET LIGHT POLE (TO REMAIN)
- EX. CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- - - EX. STORM DRAIN PIPE
- EX. CURB INLET
- ▨ NEW ASPHALT PAVEMENT REQ'D
- W- EX. WATER LINE
- PROP. W- PROPOSED WATER LINE

COORDINATE POINT LISTING		
POINT ID	NORTHING	EASTING
BC-1	N 5423.0655	E 11148.1008
BC-2	N 5661.2241	E 11290.9937
BC-3	N 5697.0561	E 11333.9421
BC-4	N 5748.1391	E 11349.9959
BC-5	N 5801.4554	E 11335.4272
BC-6	N 5976.2092	E 11357.8406
EMP-1	N 5976.1512	E 11362.8411
EMP-2	N 5976.0359	E 11372.8421



NOTES:
 1. REMOVE EX. SIGN AND REINSTALL AT A LOCATION ON ADJACENT PROPERTY TO BE DETERMINED BY OWNER.
 2. UNDERGROUND FIBER OPTIC CABLE. CONTRACTOR SHALL EXCAVATE CAREFULLY IN THIS AREA. IF CABLE IS EXPOSED DURING EXCAVATION, CONTACT BELLSOUTH FOR RELOCATION.

PI = 15+04.60
 $\Delta = 37^{\circ}47'11''$ LT
 Radius = 890.00'
 Degree = 06'26'16"
 Length = 586.95'
 Tangent = 304.60'

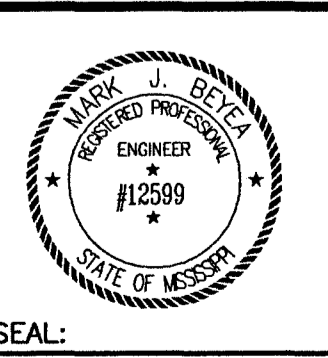


NOTICE TO DRAWING HOLDER
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO.:	05651.001
FILENAME:	RV5651PLAN.DWG
CADD TYPE:	Autocad 2002
SURVEYED BY:	
DSGN:	M.J.B. DATE: 02/02/05
DRWN:	M.A.L. DATE: 02/02/05
CHKD:	
QA/QC:	

**HIGHLAND COLONY PARKWAY
 AT STEED ROAD AREA TIF IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001**



NEEL-SCHAFFER
 P.O. Box 22825 / 39225-2825
 666 North Street, Suite 201
 Jackson, MS 39202
 PH: (601)948-3071 / FAX: (601)948-3178

**HIGHLAND COLONY PARKWAY
 PLAN SHEET
 STA. 12+00 - STA. 18+20**

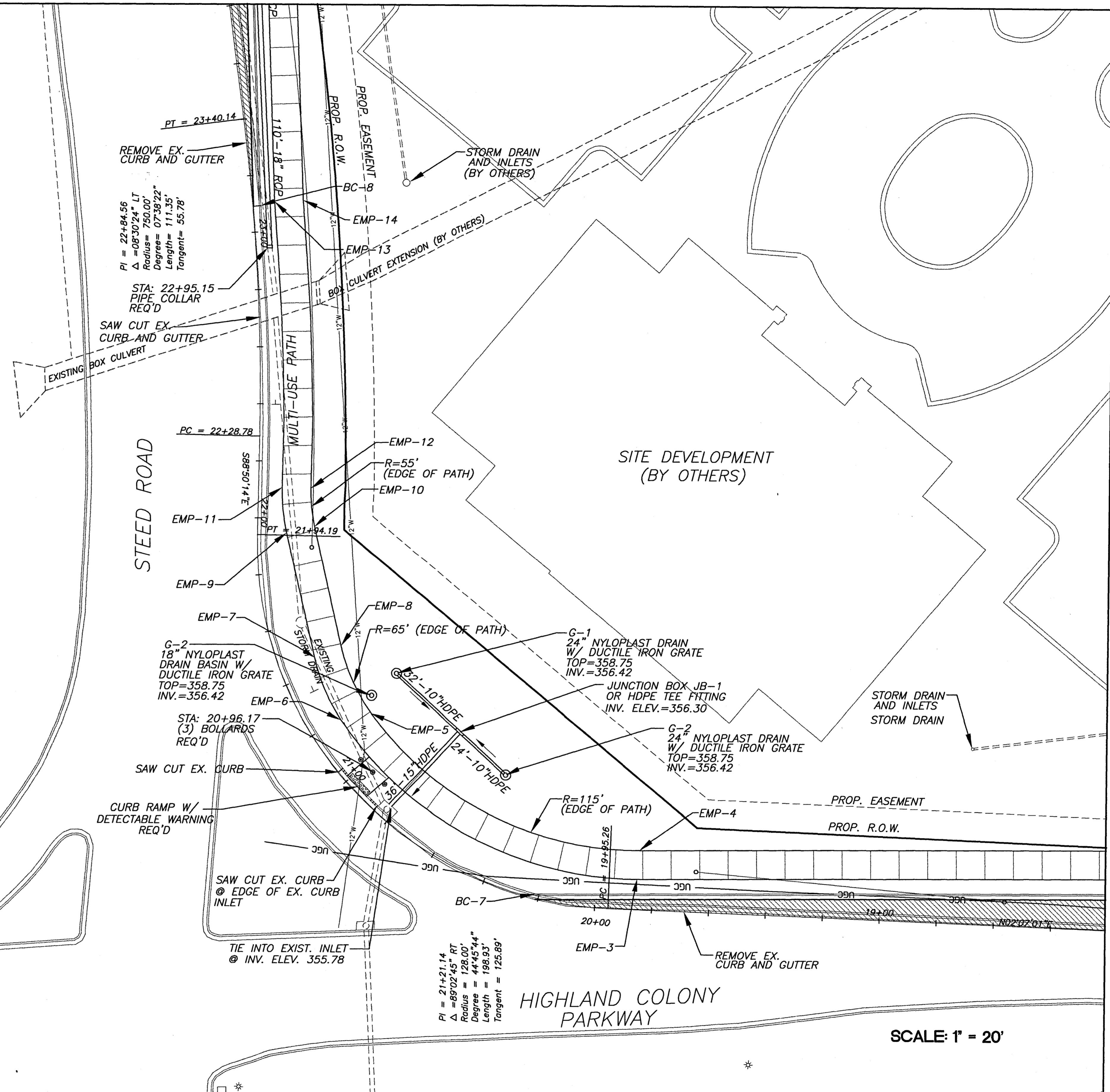
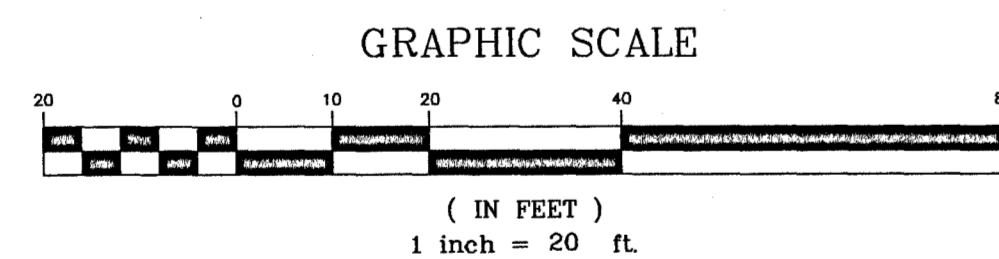
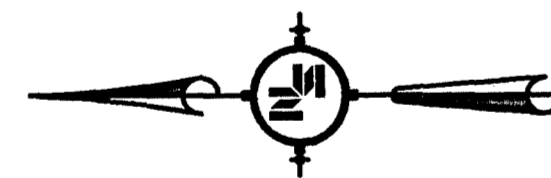
WORKING NUMBER: P-1	DRAWING NUMBER: 5
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LEGEND

- BC-X BACK OF CURB COORDINATE POINT
- R-X RADIUS (AT BACK OF CURB UNLESS OTHERWISE INDICATED)
- EMP-X EDGE OF MULTI-USE PATH COORDINATE POINT
- UGC UNDERGROUND COMMUNICATION LINE (FIBER OPTIC)
- ☼ EX. STREET LIGHT POLE (TO REMAIN)
- EX. CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- - - EX. STORM DRAIN PIPE
- EX. CURB INLET
- ▨ NEW ASPHALT PAVEMENT REQ'D
- EX. WATER LINE
- - - PROP. W. PROPOSED WATER LINE

COORDINATE POINT LISTING		
POINT ID	NORTHING	EASTING
BC-7	N 6203.8561	E 11356.3163
BC-8	N 6301.0591	E 11596.8964
EMP-3	N 6168.4061	E 11361.5565
EMP-4	N 6167.6361	E 11371.5591
EMP-5	N 6261.6731	E 11419.2790
EMP-6	N 6272.3104	E 11417.0662
EMP-7	N 6281.6734	E 11438.8380
EMP-8	N 6272.3503	E 11442.9428
EMP-9	N 6291.5699	E 11482.5175
EMP-10	N 6281.8172	E 11484.7277
EMP-11	N 6293.1582	E 11498.4323
EMP-12	N 6283.1610	E 11498.1936
EMP-13	N 6296.1526	E 11598.4054
EMP-14	N 6286.1646	E 11598.9288

DRAINAGE COORDINATE POINT LISTING		
POINT ID	NORTHING	EASTING
G-1	N 6252.8789	E 11433.4126
G-2	N 6214.6407	E 11397.8866
JB-1	N 6230.7561	E 11412.8590



SCALE: 1" = 20'

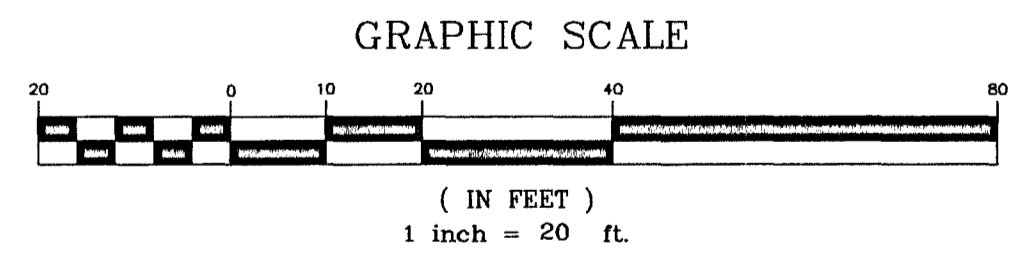
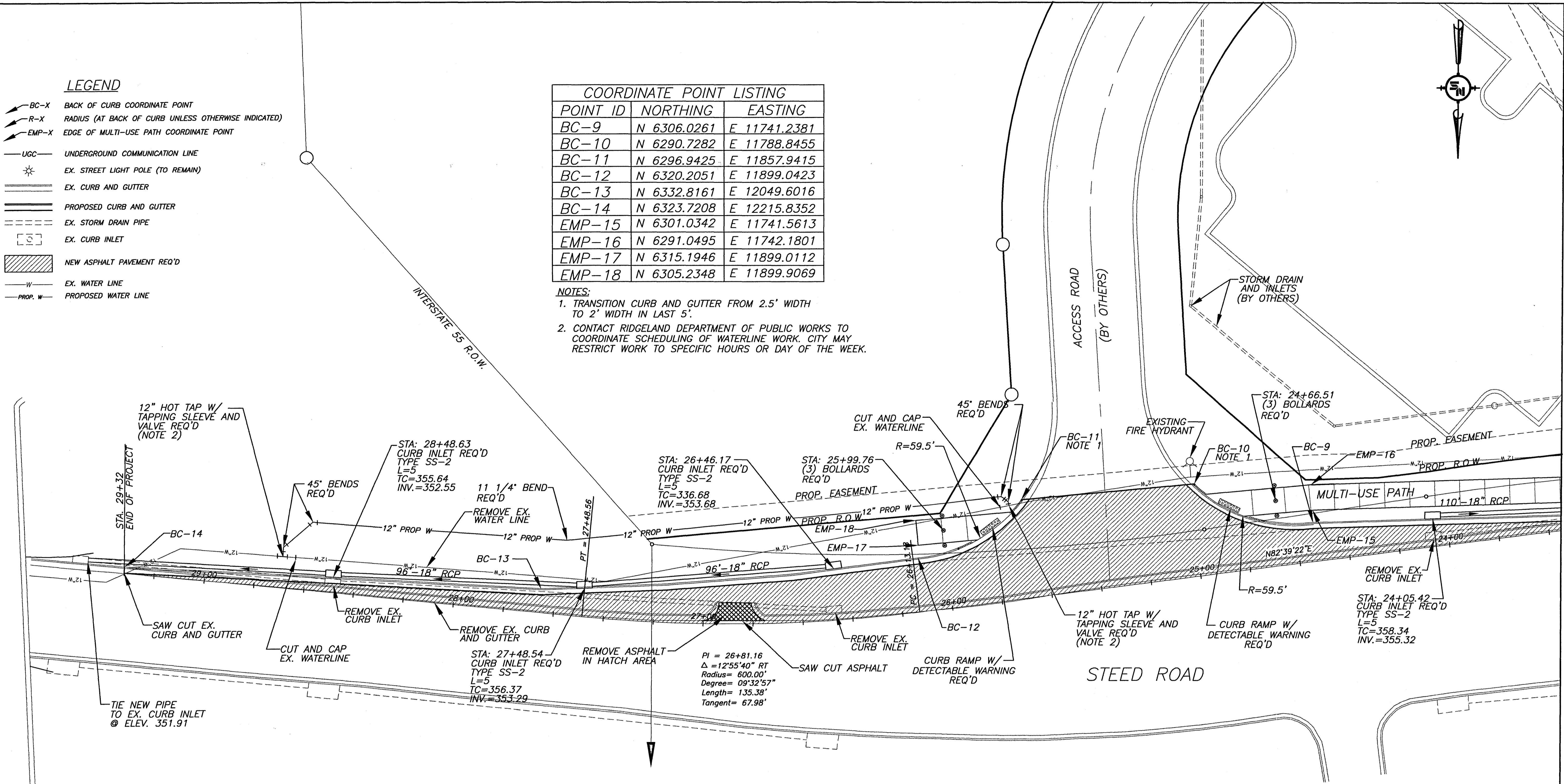
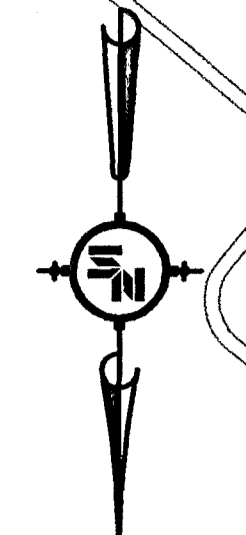
<p>NOTICE TO DRAWING HOLDER</p> <p>NEEL-SCHAFFER, INC. HEREAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS				NO.	DATE	BY	DESCRIPTION													<p>DRAWING INFORMATION</p> <p>N-S PROJECT NO.: 05651.001 FILENAME: REV05651PLAN.DWG CADD TYPE: Autocad 2002 SURVEYED BY: M.J.B. DATE: 02/02/05 DSGN: M.A.L. DATE: 02/02/05 DRWN: M.A.L. DATE: 02/02/05 CHKD: M.A.L. DATE: 02/02/05 QA/QC: M.A.L. DATE: 02/02/05</p>	<p>HIGHLAND COLONY PARKWAY AT STEED ROAD AREA TIF IMPROVEMENTS N.S. ACCOUNT NO. 05651.001</p>		<p>NEEL-SCHAFFER</p> <p>P.O. Box 22625 / 39225-2625 666 North Street, Suite 201 Jackson, MS 39202 PH: (601)948-3071 / FAX: (601)948-3178</p>	<p>HIGHLAND COLONY PARKWAY AND STEED ROAD PLAN STA. 18+20 - STA. 24+00</p> <p>WORKING NUMBER: P-2 DRAWING NUMBER: 6</p>
REVISIONS																										
NO.	DATE	BY	DESCRIPTION																							

LEGEND

- BC-X BACK OF CURB COORDINATE POINT
- R-X RADIUS (AT BACK OF CURB UNLESS OTHERWISE INDICATED)
- EMP-X EDGE OF MULTI-USE PATH COORDINATE POINT
- UGC UNDERGROUND COMMUNICATION LINE
- ☼ EX. STREET LIGHT POLE (TO REMAIN)
- ==== EX. CURB AND GUTTER
- ==== PROPOSED CURB AND GUTTER
- EX. STORM DRAIN PIPE
- EX. CURB INLET
- [] EX. CURB INLET
- [] NEW ASPHALT PAVEMENT REQ'D
- W — EX. WATER LINE
- PROP. W — PROPOSED WATER LINE

COORDINATE POINT LISTING		
POINT ID	NORTHING	EASTING
BC-9	N 6306.0261	E 11741.2381
BC-10	N 6290.7282	E 11788.8455
BC-11	N 6296.9425	E 11857.9415
BC-12	N 6320.2051	E 11899.0423
BC-13	N 6332.8161	E 12049.6016
BC-14	N 6323.7208	E 12215.8352
EMP-15	N 6301.0342	E 11741.5613
EMP-16	N 6291.0495	E 11742.1801
EMP-17	N 6315.1946	E 11899.0112
EMP-18	N 6305.2348	E 11899.9069

- NOTES:**
1. TRANSITION CURB AND GUTTER FROM 2.5' WIDTH TO 2' WIDTH IN LAST 5'.
 2. CONTACT RIDGELAND DEPARTMENT OF PUBLIC WORKS TO COORDINATE SCHEDULING OF WATERLINE WORK. CITY MAY RESTRICT WORK TO SPECIFIC HOURS OR DAY OF THE WEEK.

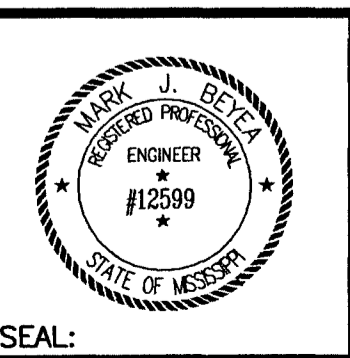


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REVISIONS			
NO.	DATE	BY	DESCRIPTION

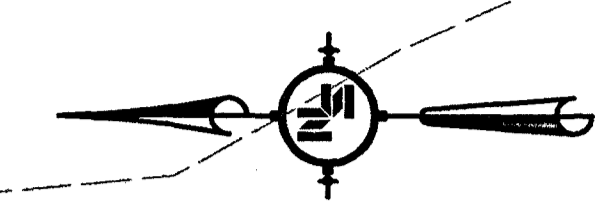
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FILENAME:	REV5651PLAN.DWG
CADD TYPE:	Autocad 2002
SURVEYED BY:	
DSGN:	M.J.B. DATE: 02/02/05
DRWN:	M.A.L. DATE: 02/02/05
CHKD:	
QA/QC:	

**HIGHLAND COLONY PARKWAY
 AT STEED ROAD AREA TIF IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001**

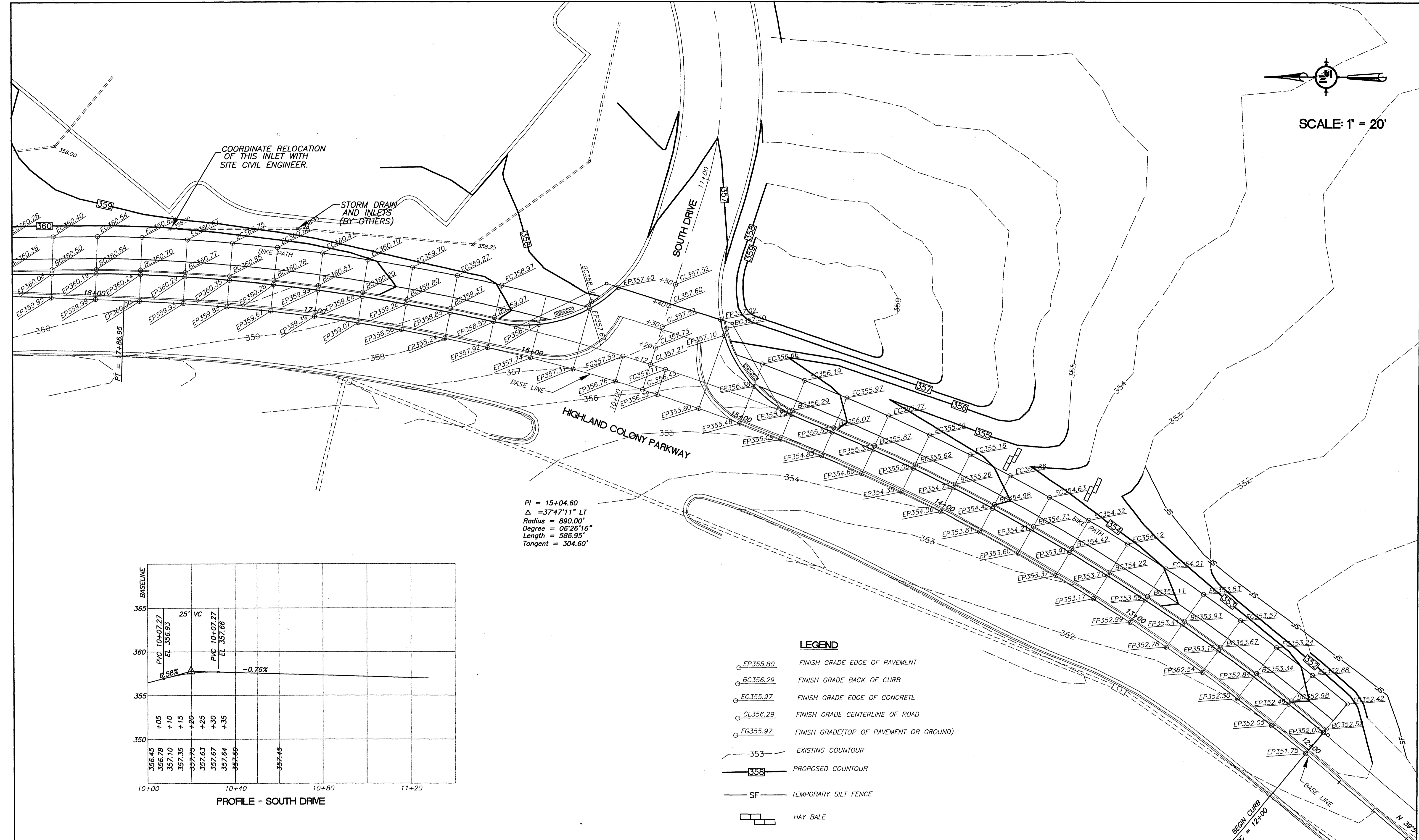


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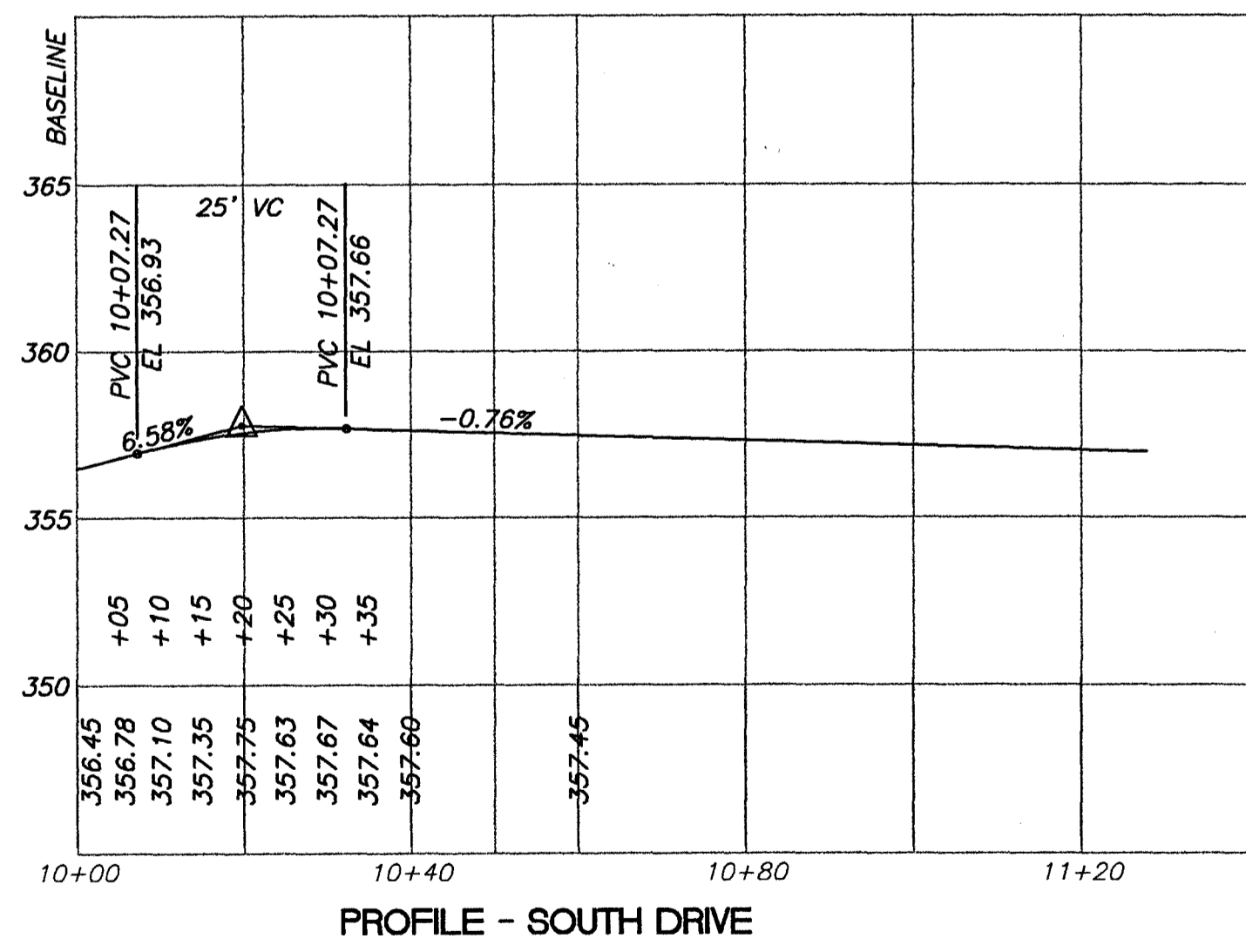
STEED ROAD PLAN SHEET STA. 24+00 - EOP	
WORKING NUMBER: P-3	DRAWING NUMBER: 7



SCALE: 1" = 20'



PI = 15+04.60
 $\Delta = 37^{\circ}47'11''$ LT
 Radius = 890.00'
 Degree = 06'26"16"
 Length = 586.95'
 Tangent = 304.60'



LEGEND

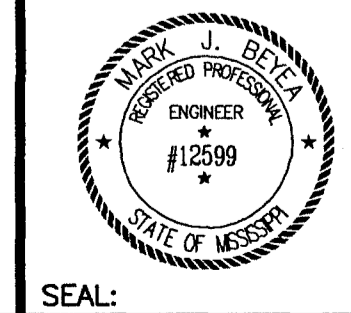
- EP355.80 FINISH GRADE EDGE OF PAVEMENT
- BC356.29 FINISH GRADE BACK OF CURB
- EC355.97 FINISH GRADE EDGE OF CONCRETE
- CL356.29 FINISH GRADE CENTERLINE OF ROAD
- FG355.97 FINISH GRADE (TOP OF PAVEMENT OR GROUND)
- - - 353 EXISTING COUNTOUR
- 358 PROPOSED COUNTOUR
- SF TEMPORARY SILT FENCE
- HAY BALE

NOTICE TO DRAWING HOLDER
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
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FILENAME:	REV5651PROFILE.DWG
CADD TYPE:	Autocad 2002
SURVEYED BY:	
DSGN:	M.J.R. DATE: 02/02/05
DRWN:	M.A.L. DATE: 02/02/05
CHKD:	
QA/QC:	

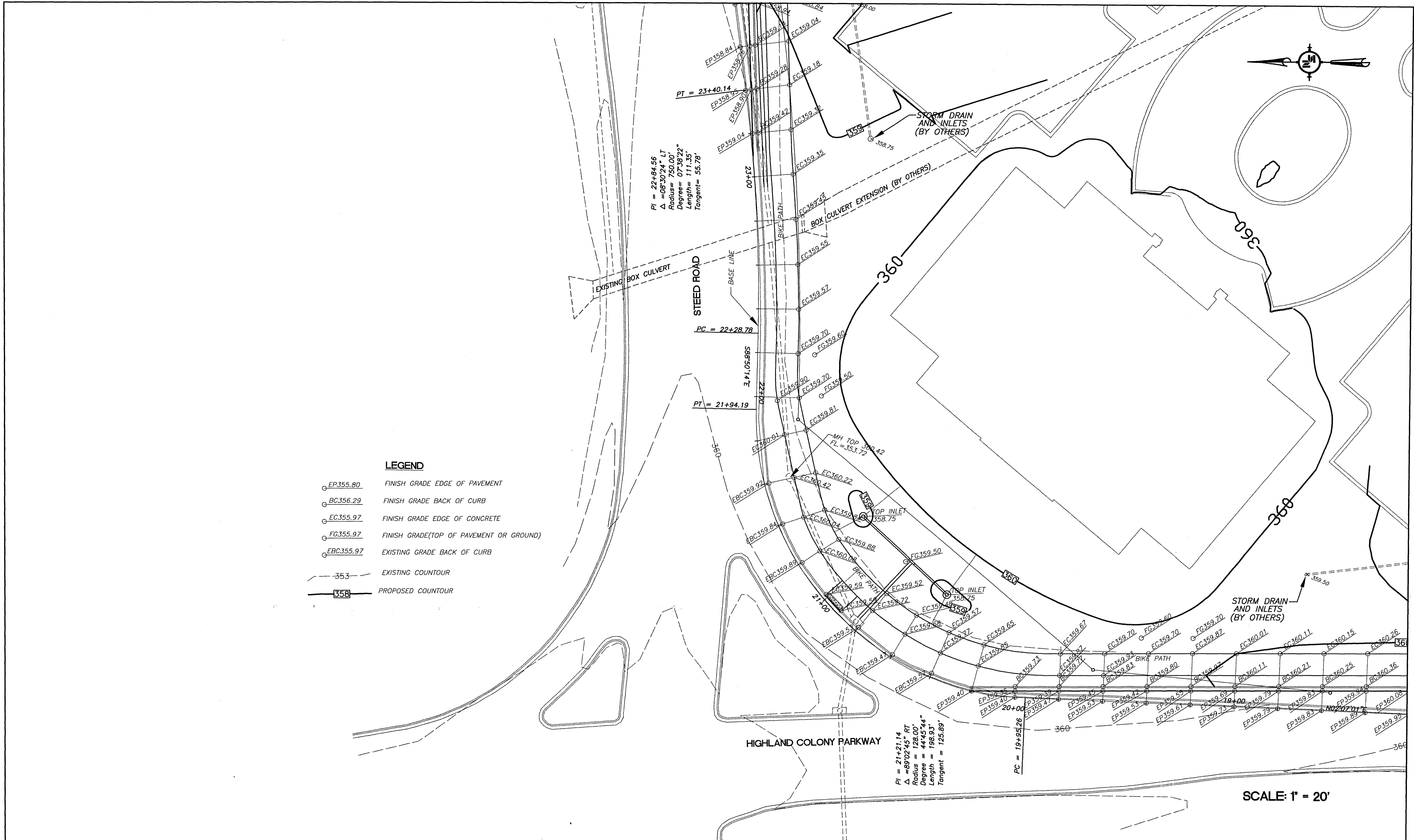
**STEED ROAD IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001**



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 Jackson, MS 39202
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**HIGHLAND COLONY PARKWAY
 GRADING SHEET
 STA. 12+00 - STA. 18+00**

WORKING NUMBER: GP-1	DRAWING NUMBER: 8
-------------------------	----------------------



LEGEND

- EP355.80 FINISH GRADE EDGE OF PAVEMENT
- BC356.29 FINISH GRADE BACK OF CURB
- EC355.97 FINISH GRADE EDGE OF CONCRETE
- FG355.97 FINISH GRADE(TOP OF PAVEMENT OR GROUND)
- EBC355.97 EXISTING GRADE BACK OF CURB
- - - 353 EXISTING COUNTOUR
- 358 PROPOSED COUNTOUR

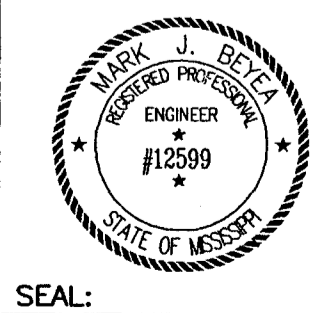
SCALE: 1" = 20'

NOTICE TO DRAWING HOLDER
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
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FILENAME:	REV5651PROFILE.DWG
CADD TYPE:	Autocad 2002
SURVEYED BY:	
DSGN:	M.J.R. DATE: 02/02/05
DRWN:	M.A.L. DATE: 02/02/05
CHKD:	DATE:
QA/QC:	DATE:

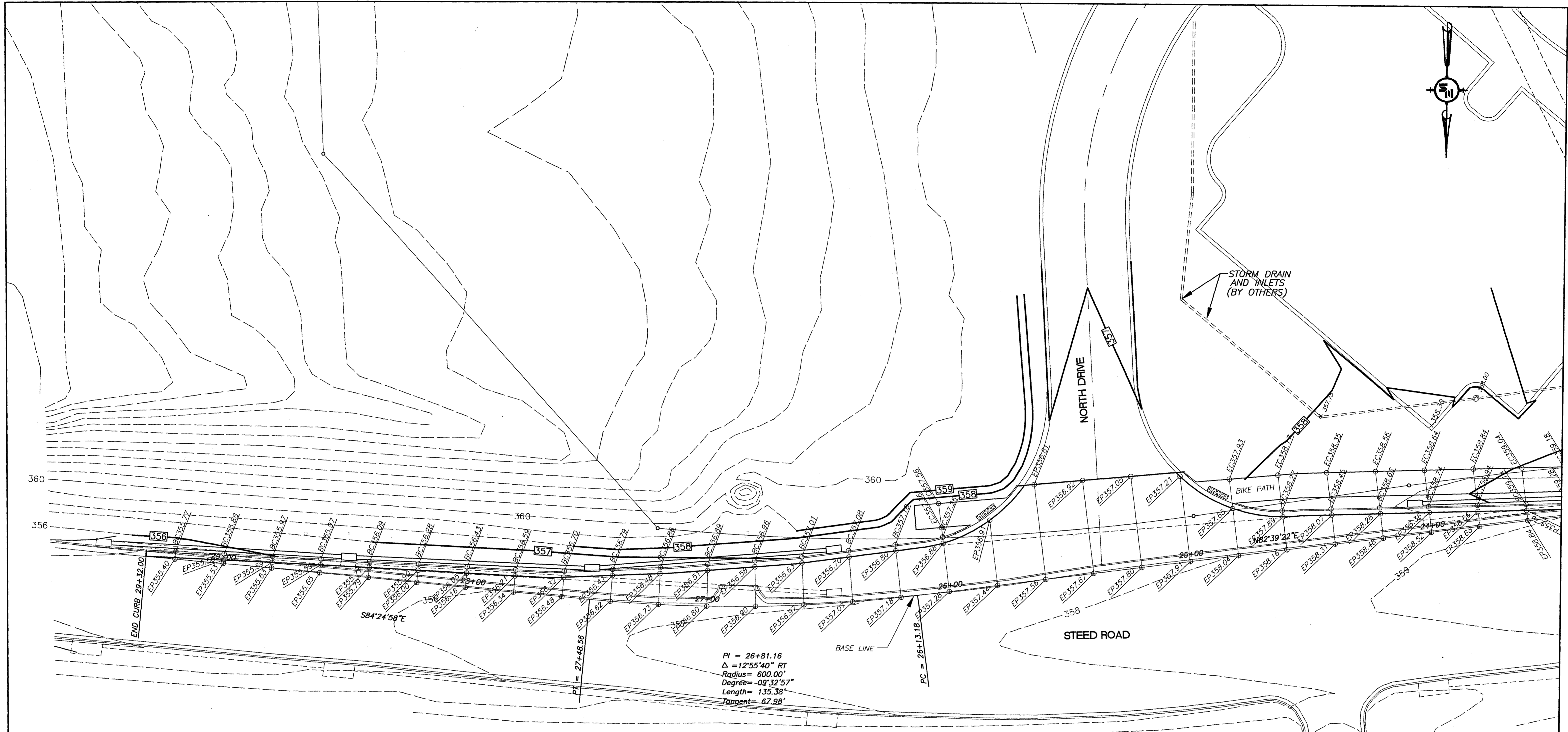
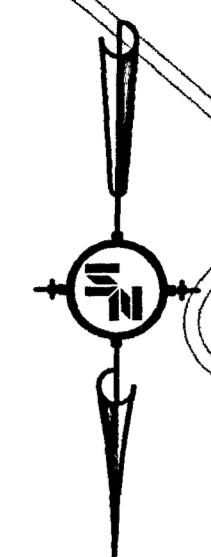
STEED ROAD IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001



NEEL-SCHAFFER
 P.O. Box 22825 / 39225-2825
 686 North Street, Suite 201
 Jackson, MS 39202
 PH: (601)948-3071 / FAX: (601)948-3178

HIGHLAND COLONY PARKWAY AND STEED ROAD GRADING
 STA. 18+00 - STA. 24+00

WORKING NUMBER: GP-2	DRAWING NUMBER: 9
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LEGEND

- EP355.80 FINISH GRADE EDGE OF PAVEMENT
- BC356.29 FINISH GRADE BACK OF CURB
- EC355.97 FINISH GRADE EDGE OF CONCRETE
- FG355.97 FINISH GRADE(TOP OF PAVEMENT OR GROUND)
- - - 353 EXISTING COUNTOUR
- 358 PROPOSED COUNTOUR

SCALE: 1" = 20'

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

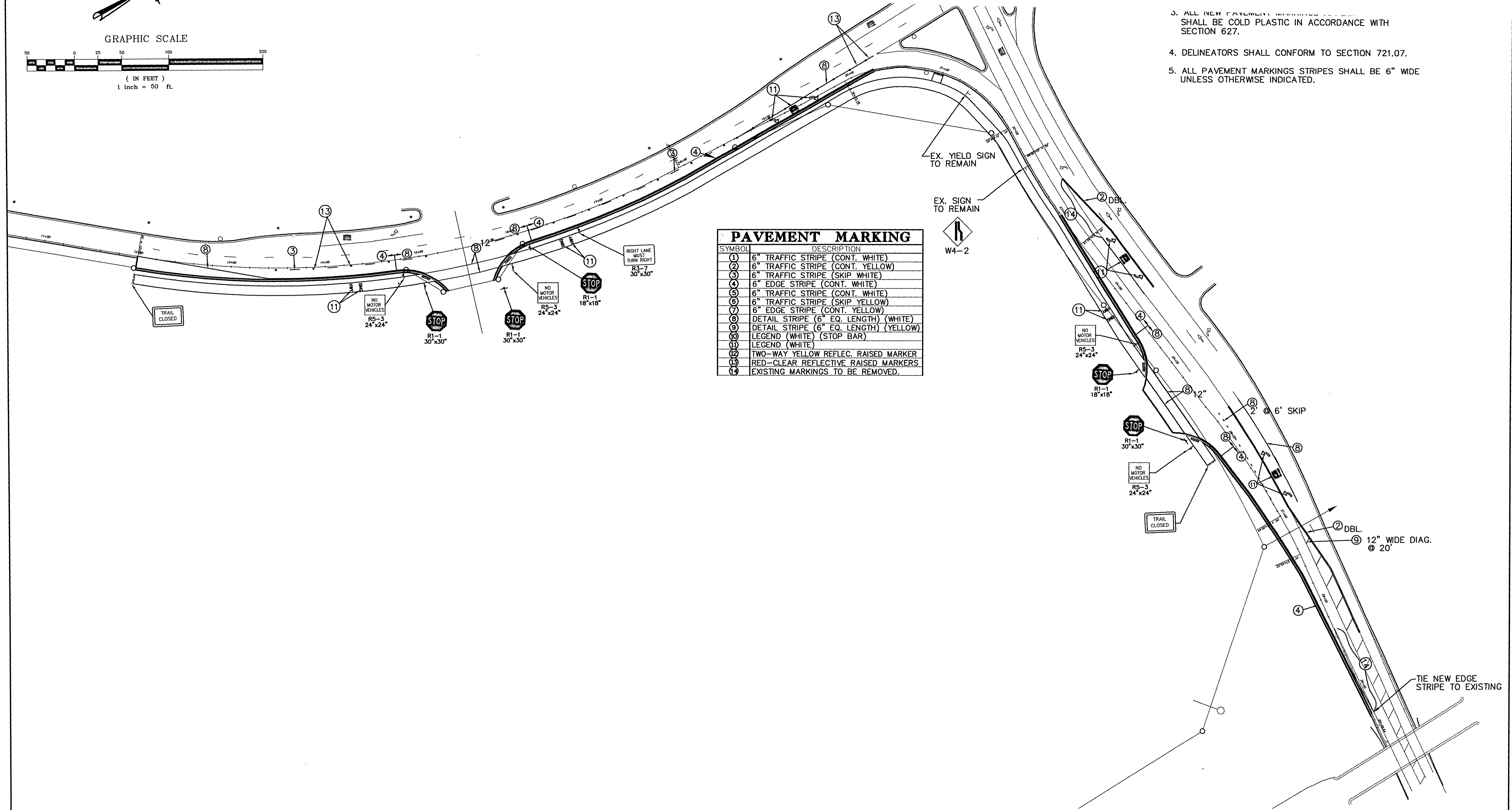
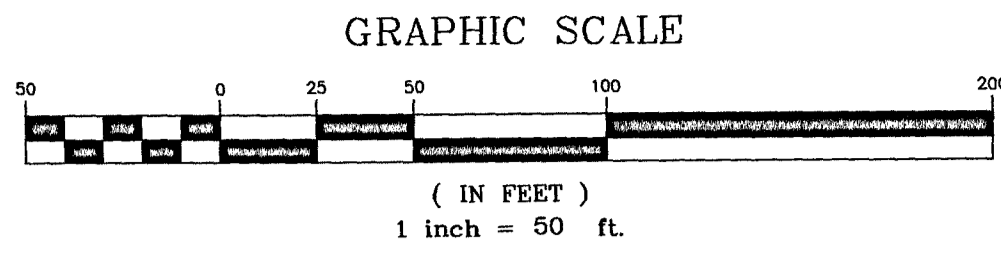
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FILENAME:	REV5651PROFILE.DWG
CADD TYPE:	Autocad 2002
SURVEYED BY:	
DSGN: M.J.B.	DATE: 02/02/05
DRWN: M.A.L.	DATE: 02/02/05
CHKD:	DATE:
QA/QC:	DATE:

STEED ROAD IMPROVEMENTS
N.S. ACCOUNT NO. 05651.001



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 Jackson, MS 39202
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STEED ROAD GRADING SHEET	
STA. 24+00 - STA. 29+00	
WORKING NUMBER:	DRAWING NUMBER:
GP-3	10



SYMBOL	DESCRIPTION
1	6" TRAFFIC STRIPE (CONT. WHITE)
2	6" TRAFFIC STRIPE (CONT. YELLOW)
3	6" TRAFFIC STRIPE (SKIP WHITE)
4	6" EDGE STRIPE (CONT. WHITE)
5	6" TRAFFIC STRIPE (CONT. WHITE)
6	6" TRAFFIC STRIPE (SKIP YELLOW)
7	6" EDGE STRIPE (CONT. YELLOW)
8	DETAIL STRIPE (6" EQ. LENGTH) (WHITE)
9	DETAIL STRIPE (6" EQ. LENGTH) (YELLOW)
10	LEGEND (WHITE) (STOP BAR)
11	LEGEND (WHITE)
12	TWO-WAY YELLOW REFLEC. RAISED MARKER
13	RED-CLEAR REFLECTIVE RAISED MARKERS
14	EXISTING MARKINGS TO BE REMOVED.

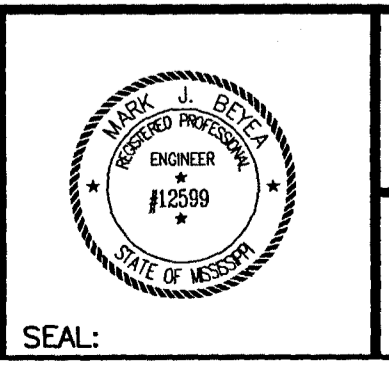
3. ALL NEW PAVEMENT MARKINGS SHALL BE COLD PLASTIC IN ACCORDANCE WITH SECTION 627.
4. DELINEATORS SHALL CONFORM TO SECTION 721.07.
5. ALL PAVEMENT MARKING STRIPES SHALL BE 6" WIDE UNLESS OTHERWISE INDICATED.

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

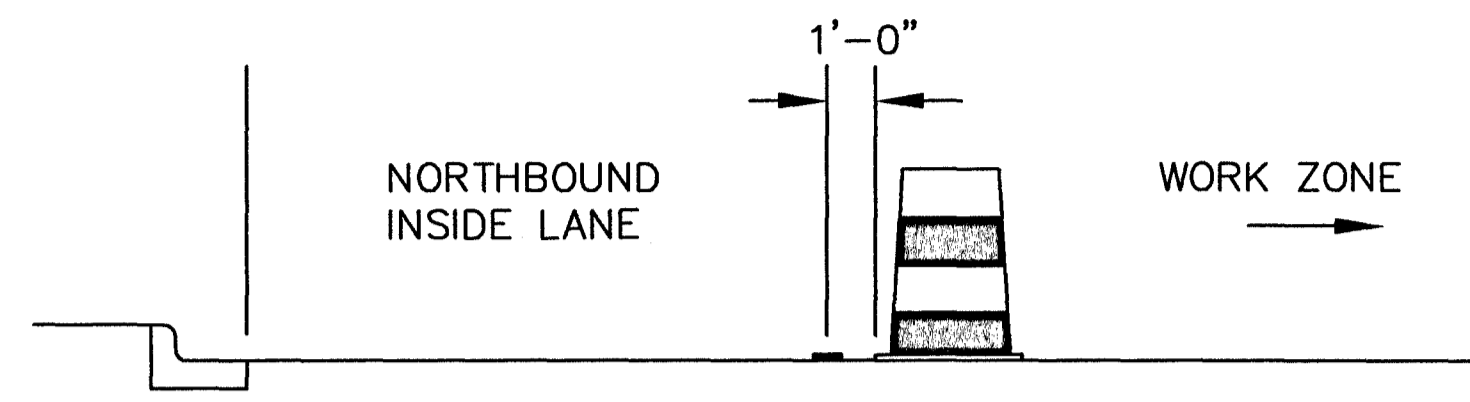
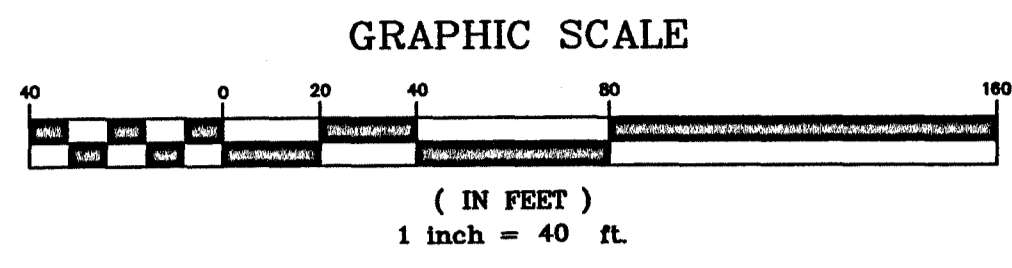
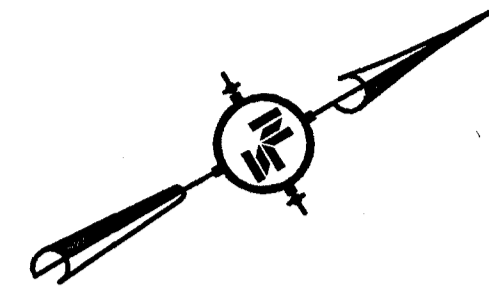
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N-S PROJECT NO.:	2-05651-001
FILENAME:	5651PVM.DWG
CADD TYPE:	Autocad 2002
SURVEYED BY:	
DSGN:	M.J.B. DATE: 01/24/05
DRWN:	M.A.L. DATE: 01/24/05
CHKD:	DATE:
QA/QC:	DATE:

**HIGHLAND COLONY PARKWAY
 AT STEED ROAD AREA TIF IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001**

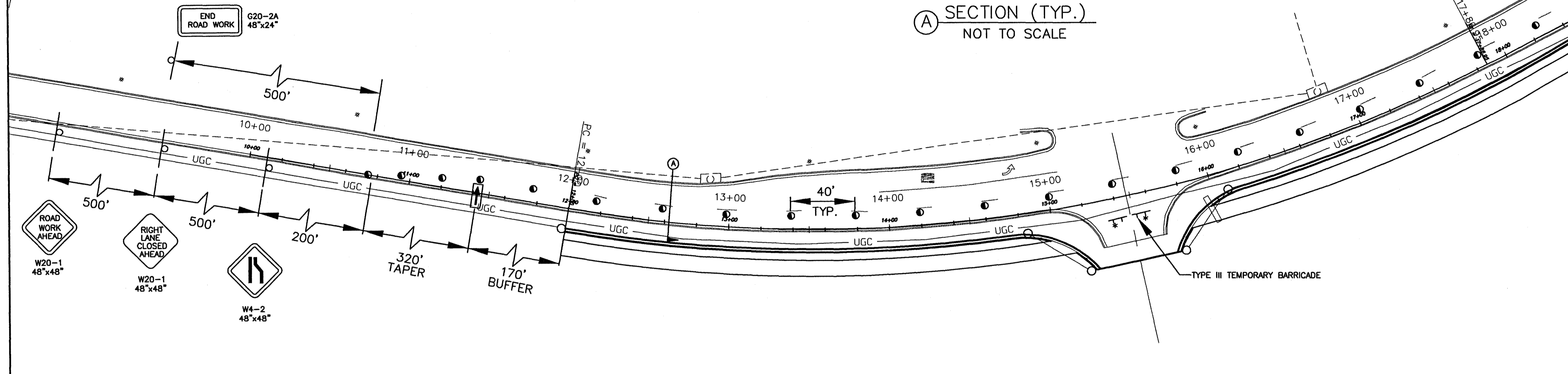


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PAVEMENT MARKING AND SIGNING	
WORKING NUMBER: PMS-1	DRAWING NUMBER: 11



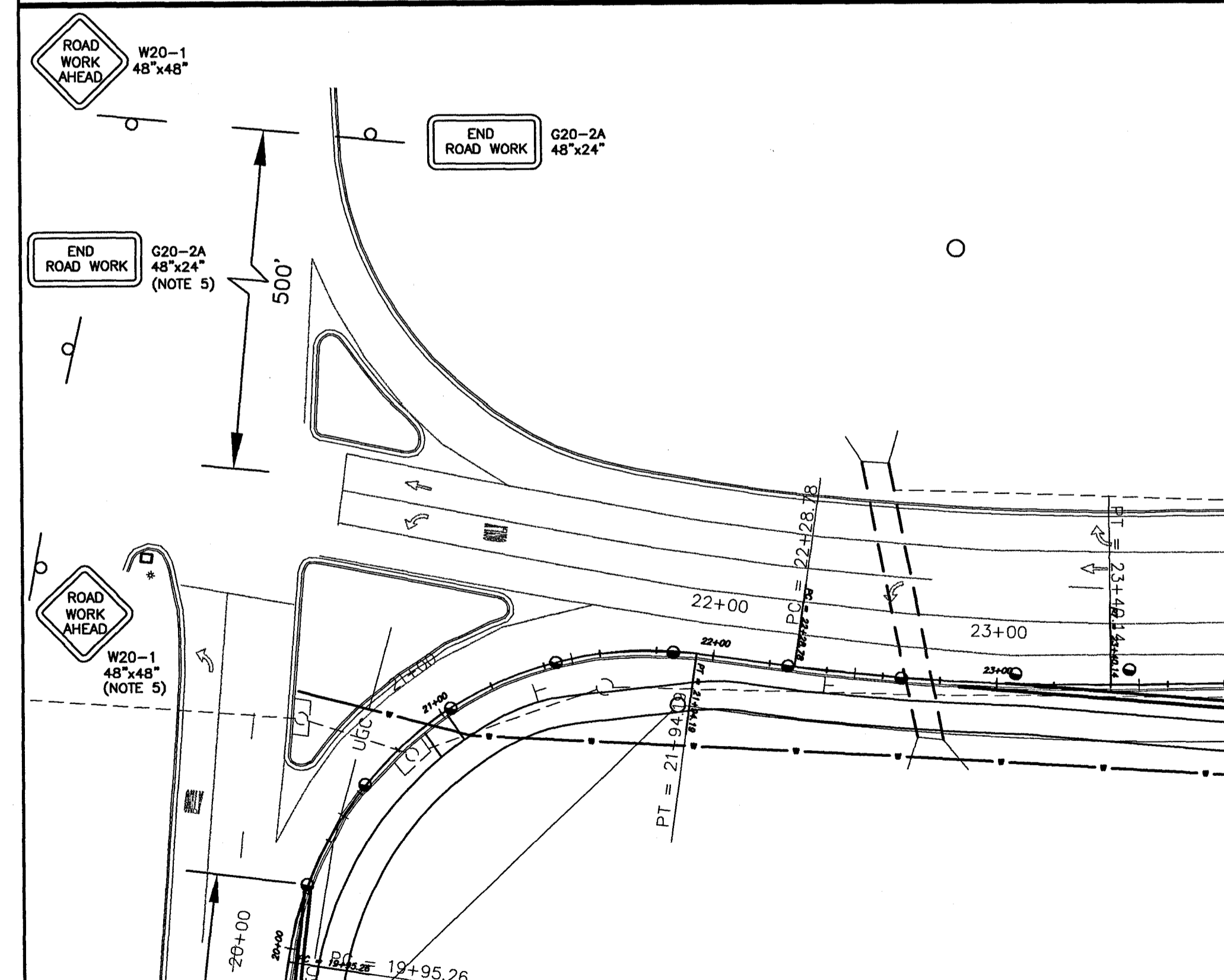
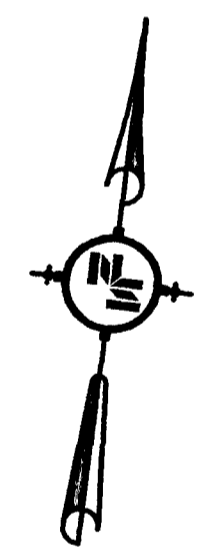
(A) SECTION (TYP.)
NOT TO SCALE



DRUM PLACEMENT ON LOW SHOULDERS OF WIDENING
THIS DETAIL TO BE USED WHERE A VERTICAL DROP OF 2'-4" EXISTS AT EDGE OF NEW CONSTRUCTION.

TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
2. FLOURESCENT ORANGE PRISMATIC SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT THOSE DESIGNATED ON THE PLANS TO BE BLACK LEGEND ON WHITE BACKGROUND.
3. LOCATIONS OF TRAFFIC CONTROL SIGNS AND DEVICES SHOWN ON PLAN ARE APPROXIMATE. LOCATIONS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
4. ALL TRAFFIC CONTROL WORK AND DEVICES TO BE PAID FOR UNDER MAINTENANCE OF TRAFFIC (618-A)
5. PLACE SIGNS 300' WEST OF CENTER OF INTERSECTION.



LEGEND

- FREE STANDING PLASTIC DRUM
- ▬ TRAILER MOUNTED FLASHING ARROW PANEL
- ┆ TYPE III TEMPORARY BARRICADE
- * TYPE C BEACON (QTY AS INDICATED)
- ▬ STANDARD WORK ZONE SIGN

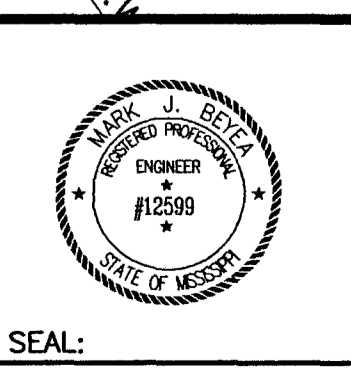
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION

N-S PROJECT NO.: 2-05651-001
 FILENAME: 5651TCP/PLAN.DWG
 CADD TYPE: Autocad 2002
 SURVEYED BY: M.J.B.
 DSGN: M.J.B. DATE: 01/24/05
 DRWN: M.A.L. DATE: 01/24/05
 CHKD: DATE: 01/24/05
 QA/QC: DATE: 01/24/05

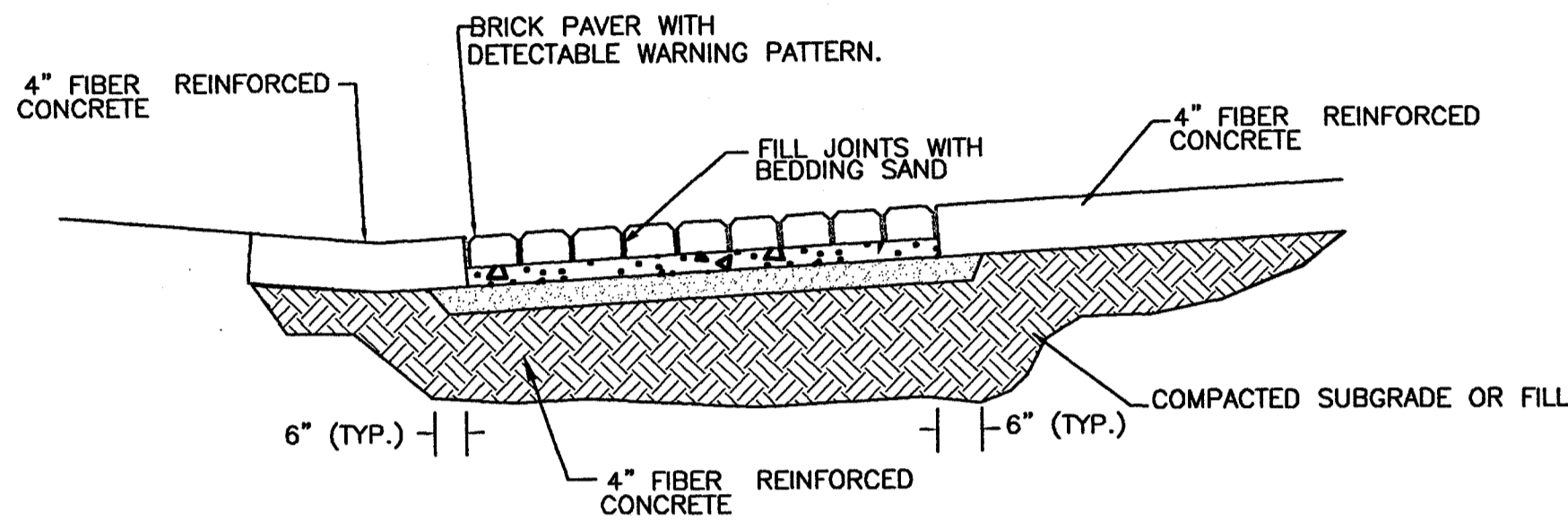
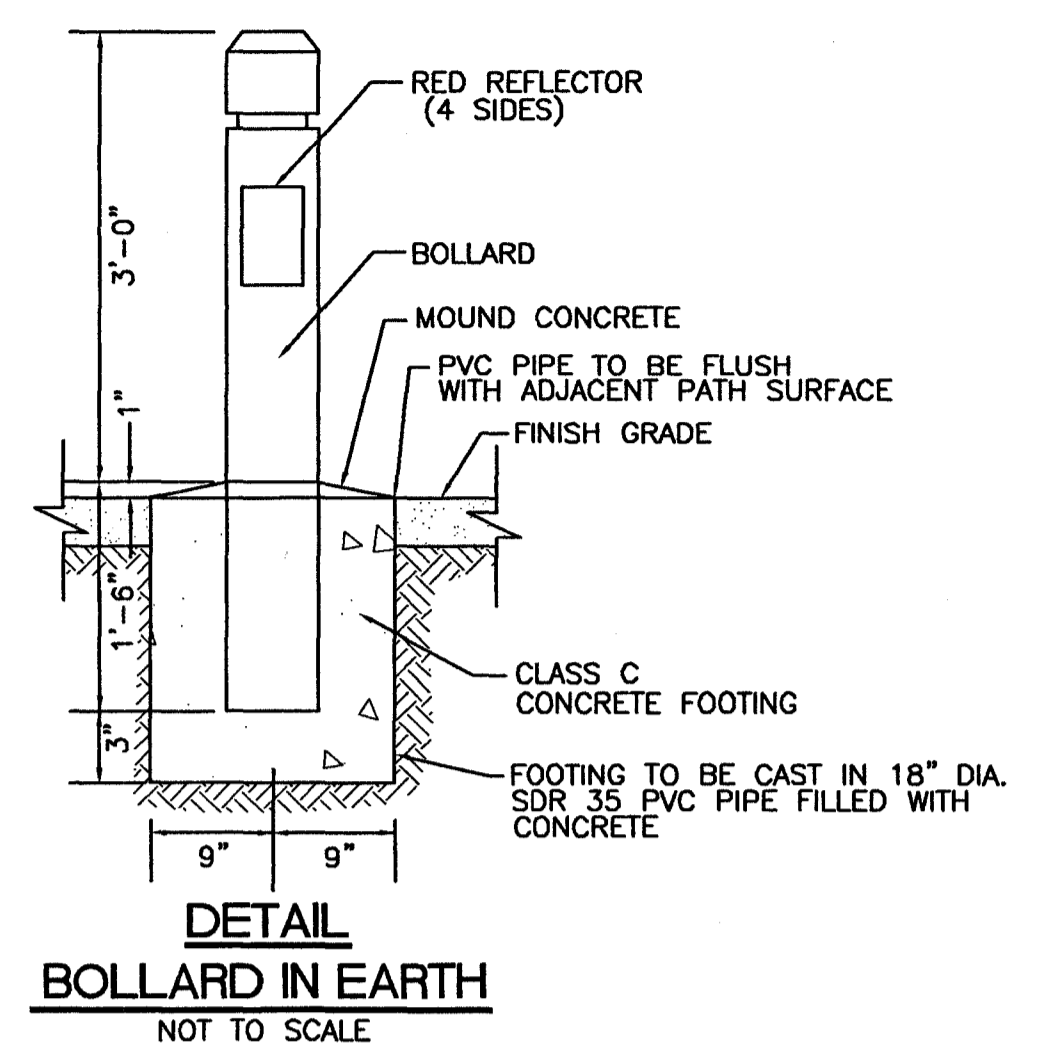
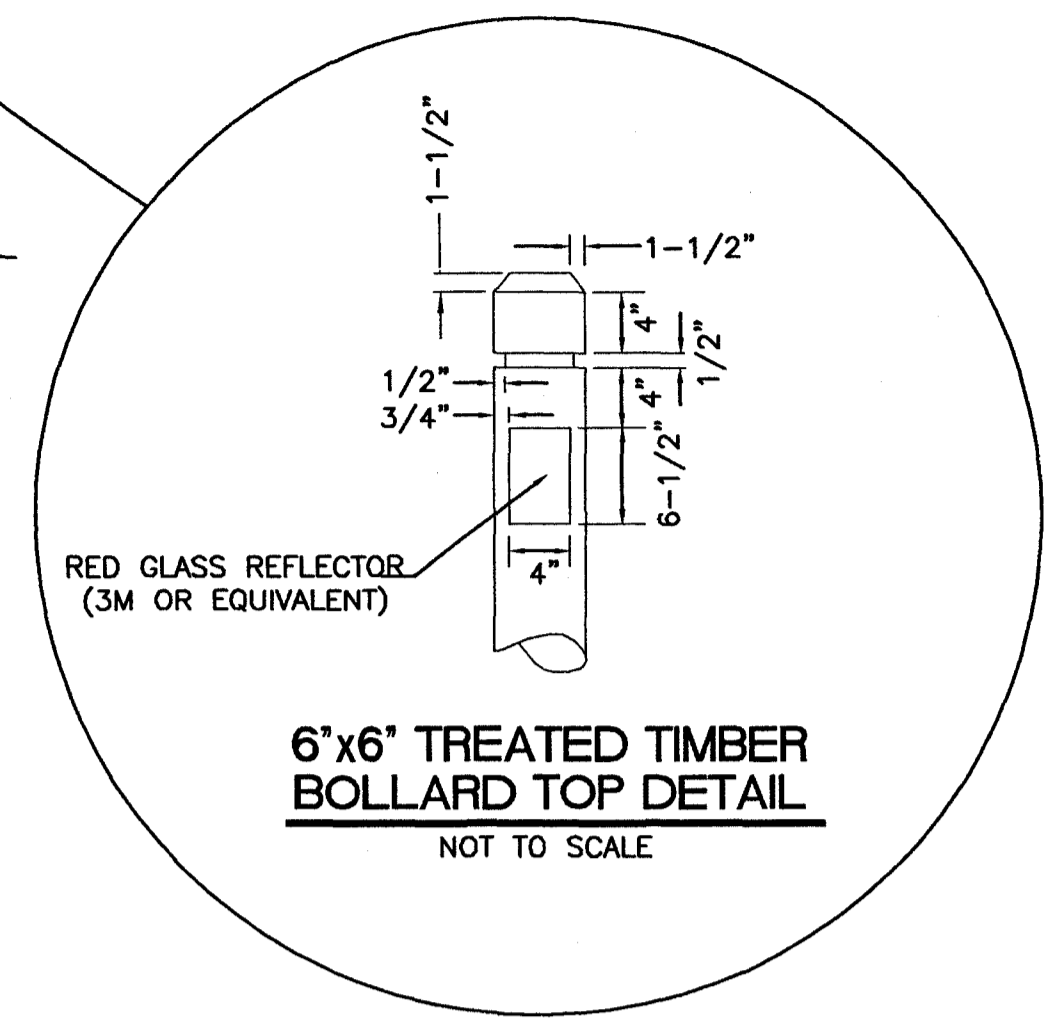
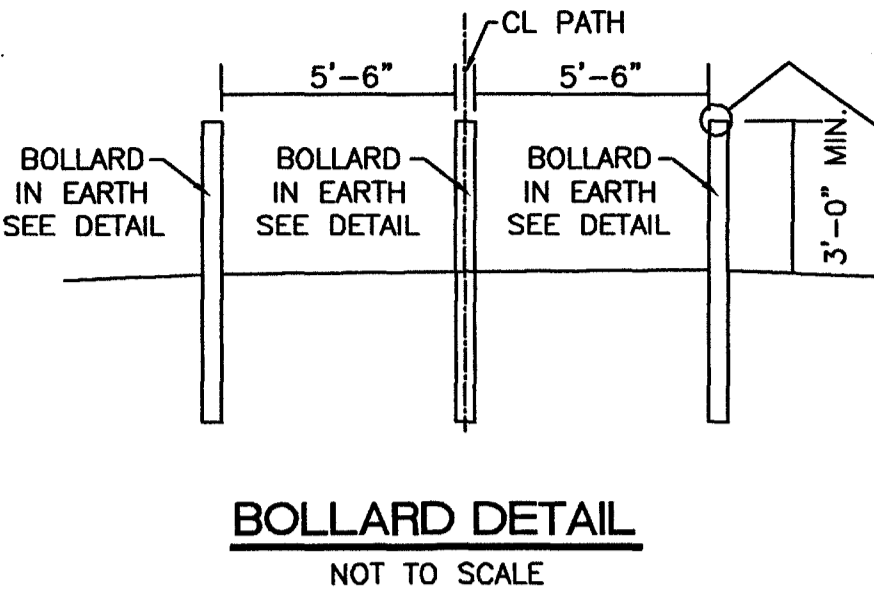
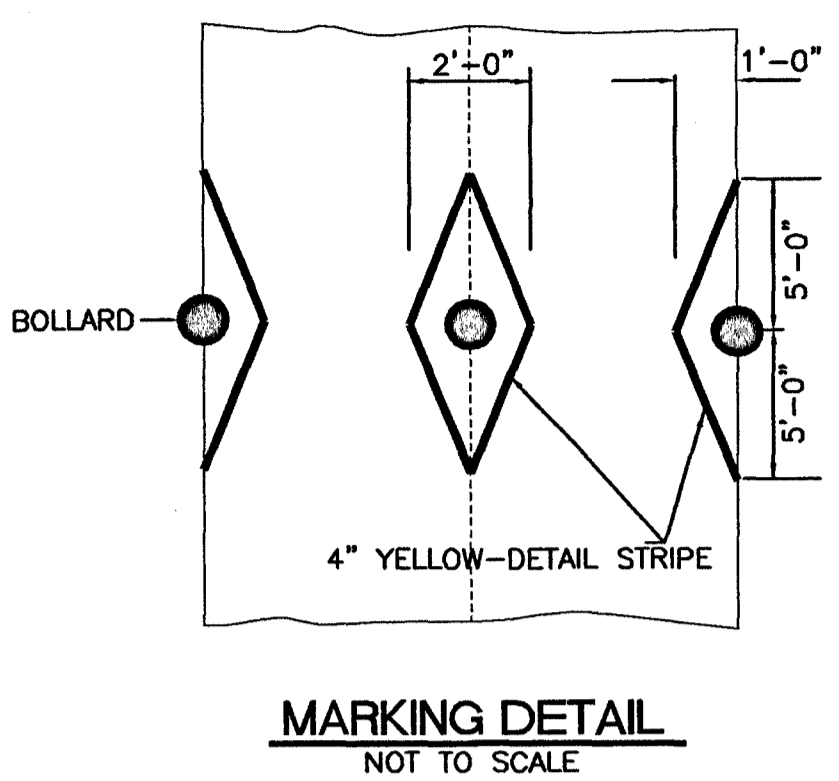
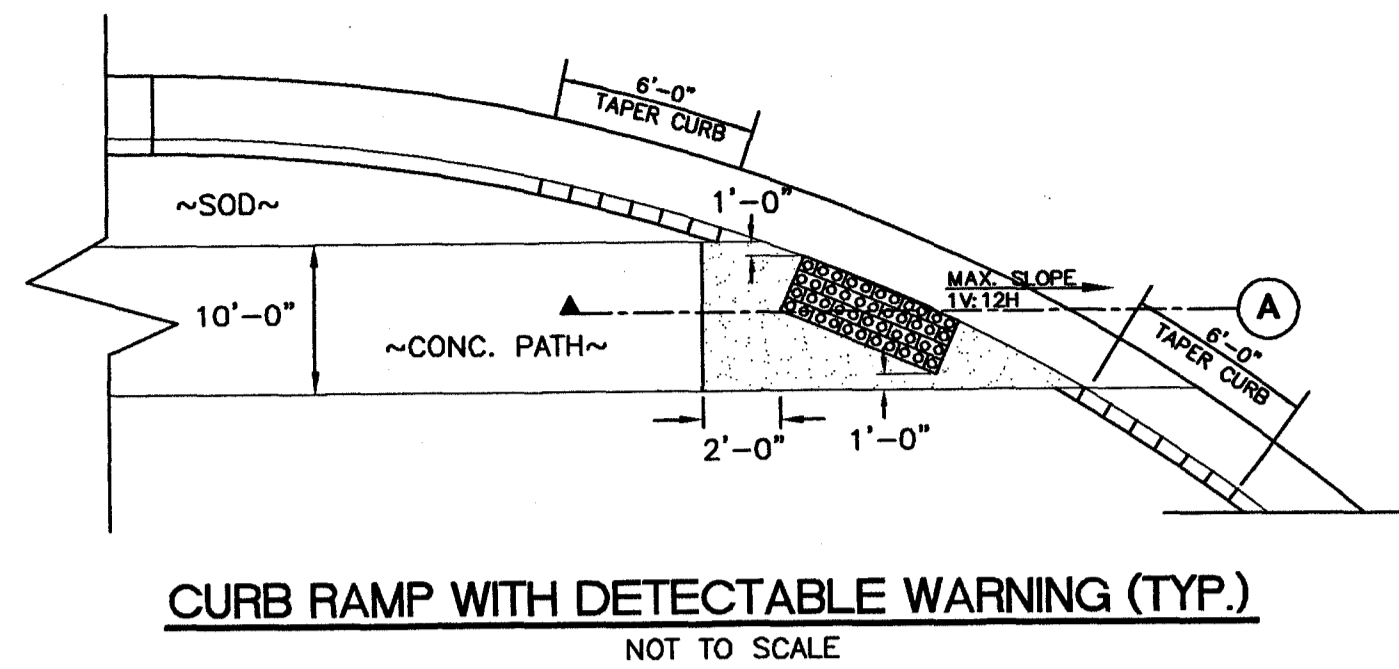
**HIGHLAND COLONY PARKWAY
AT STEED ROAD AREA TIF IMPROVEMENTS
N.S. ACCOUNT NO. 05651.001**



NEEL-SCHAFFER
 P.O. Box 22825 / 39225-2825
 866 North Street, Suite 201
 Jackson, MS 39202
 PH: (601)948-3071 / FAX: (601)948-3178

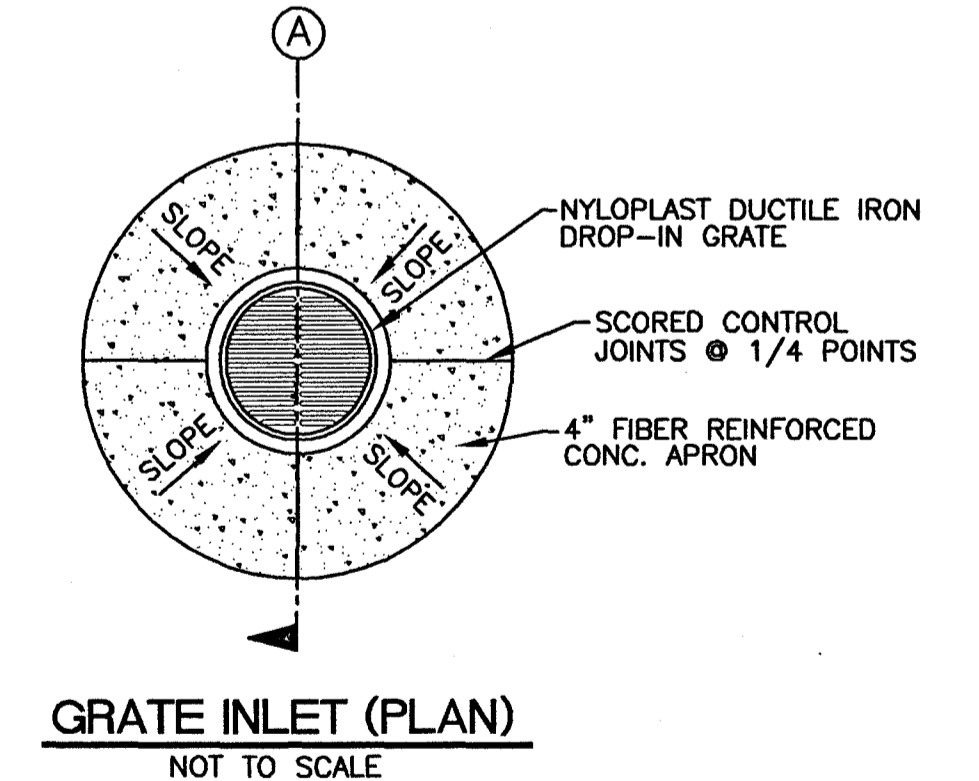
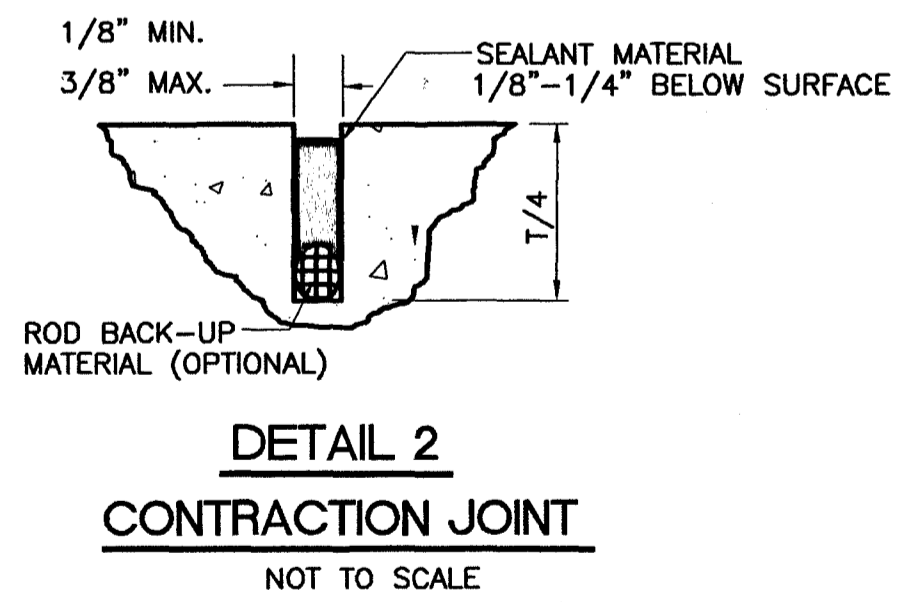
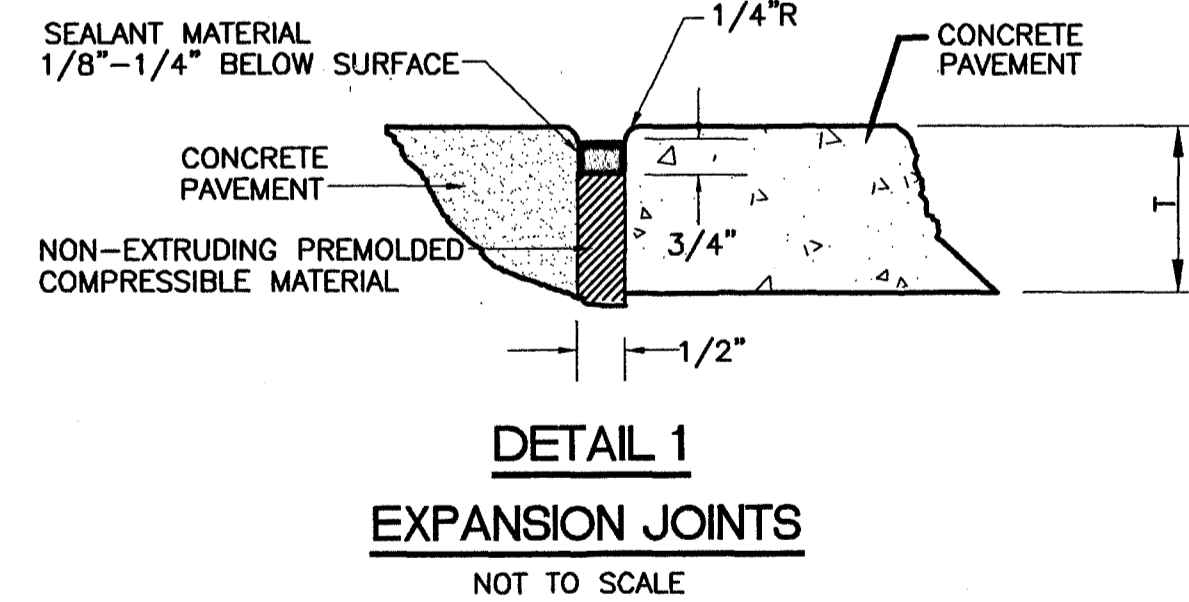
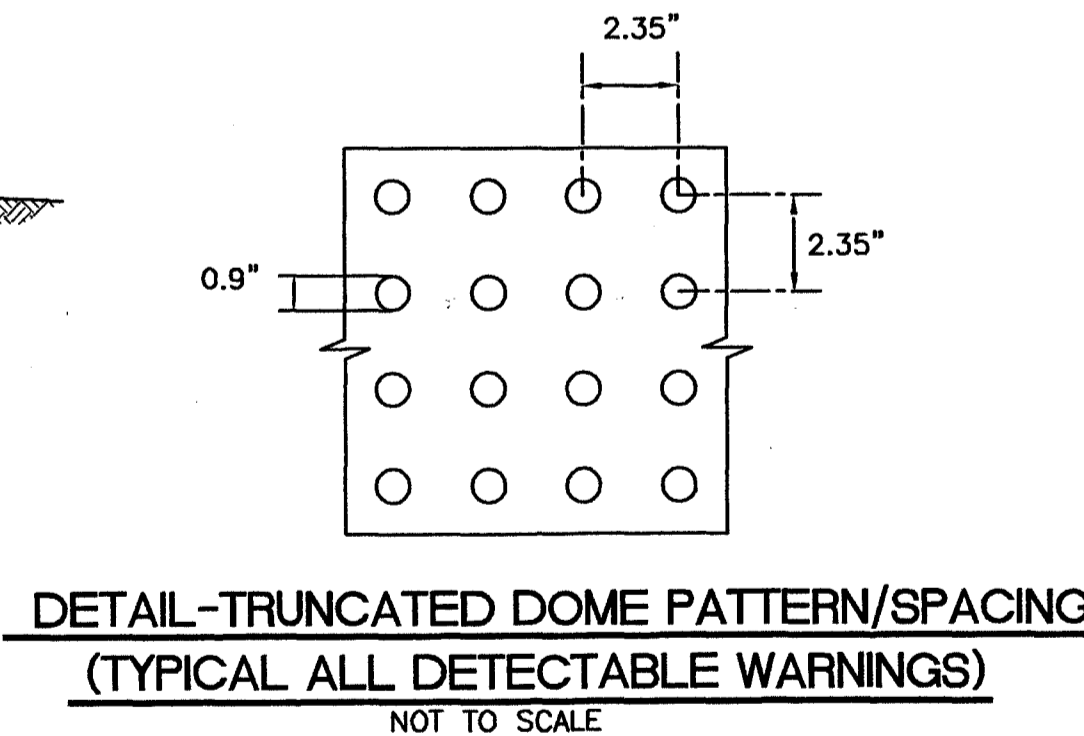
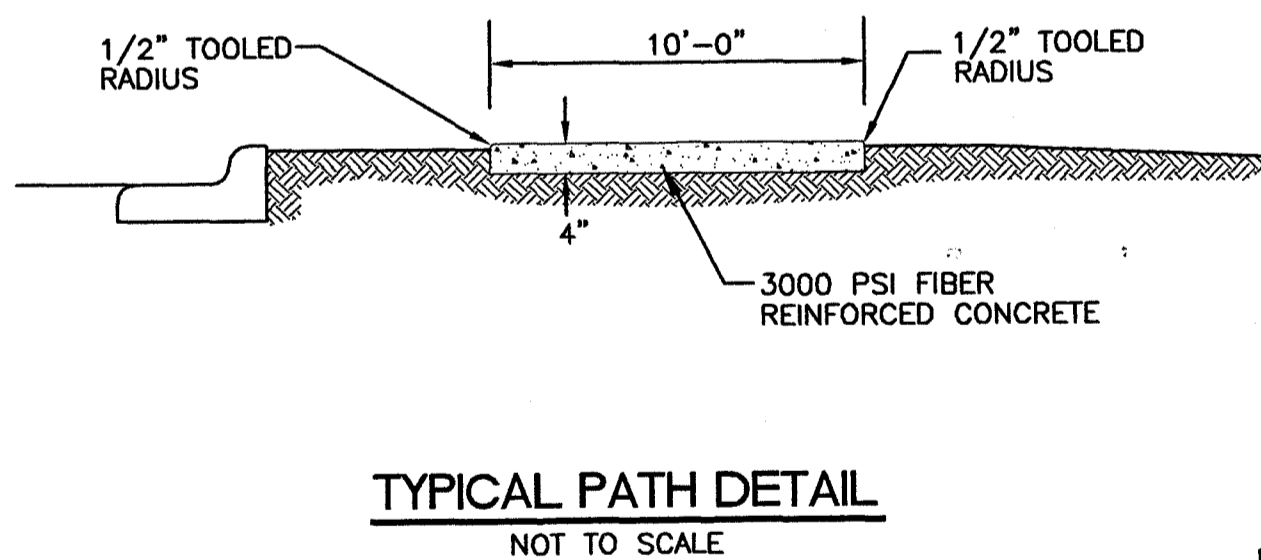
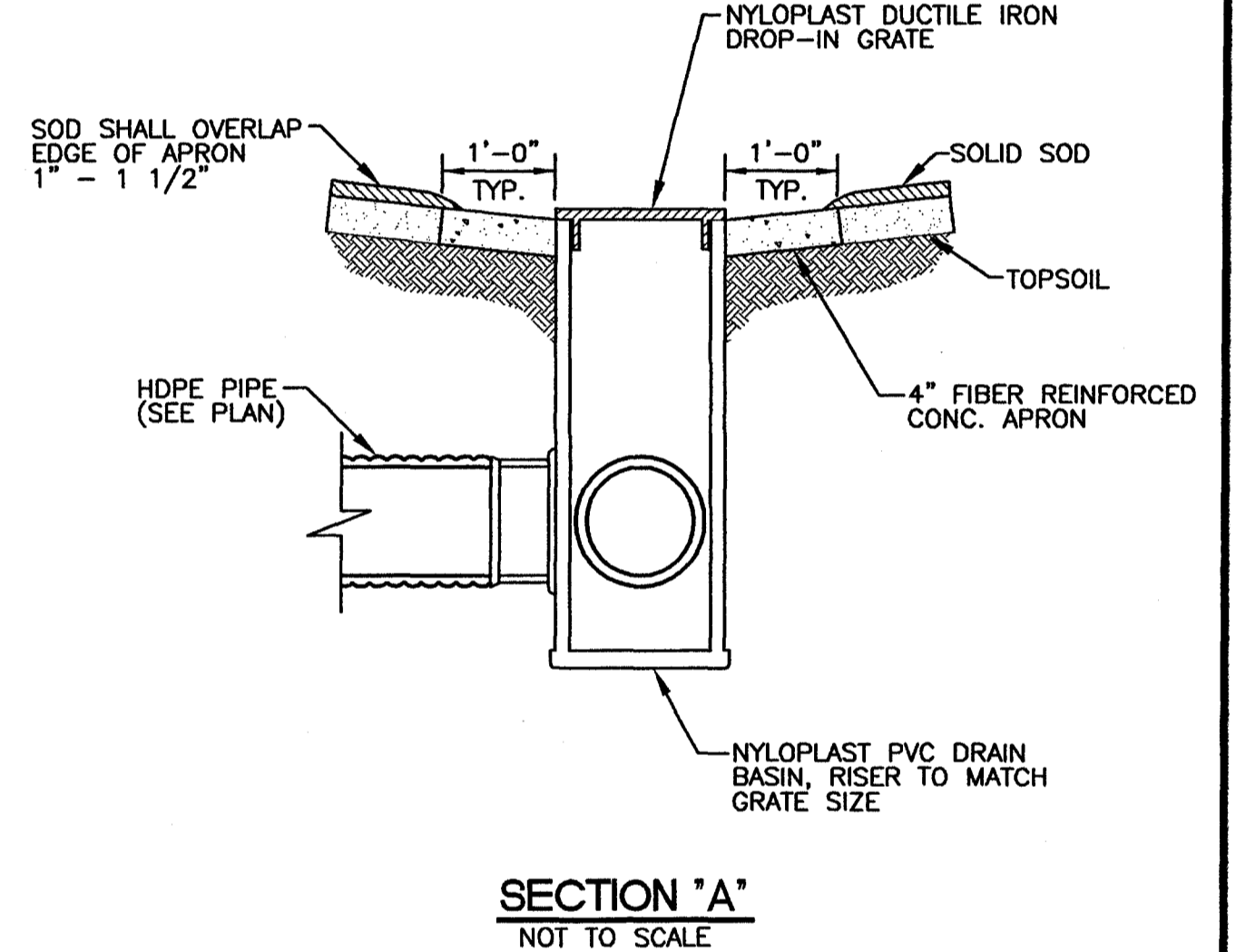
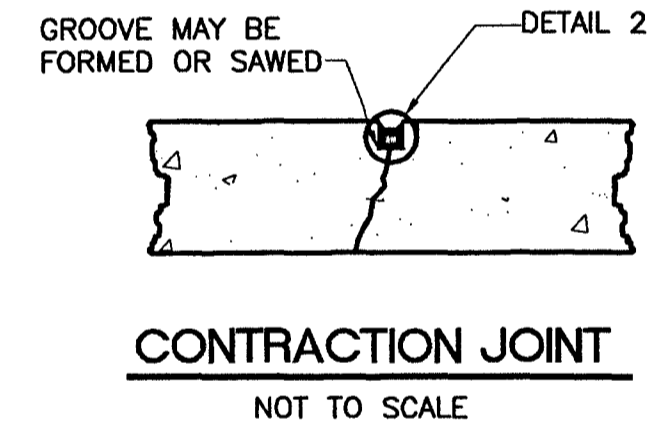
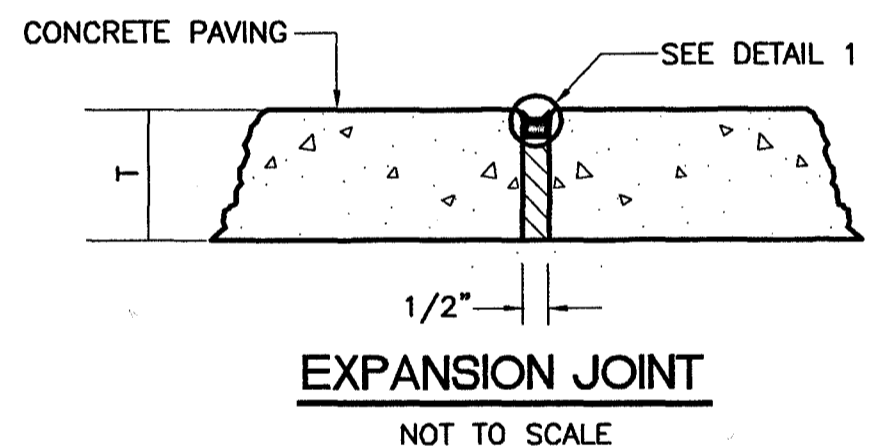
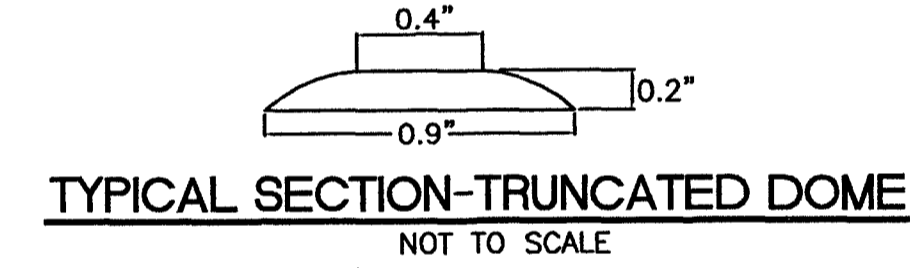
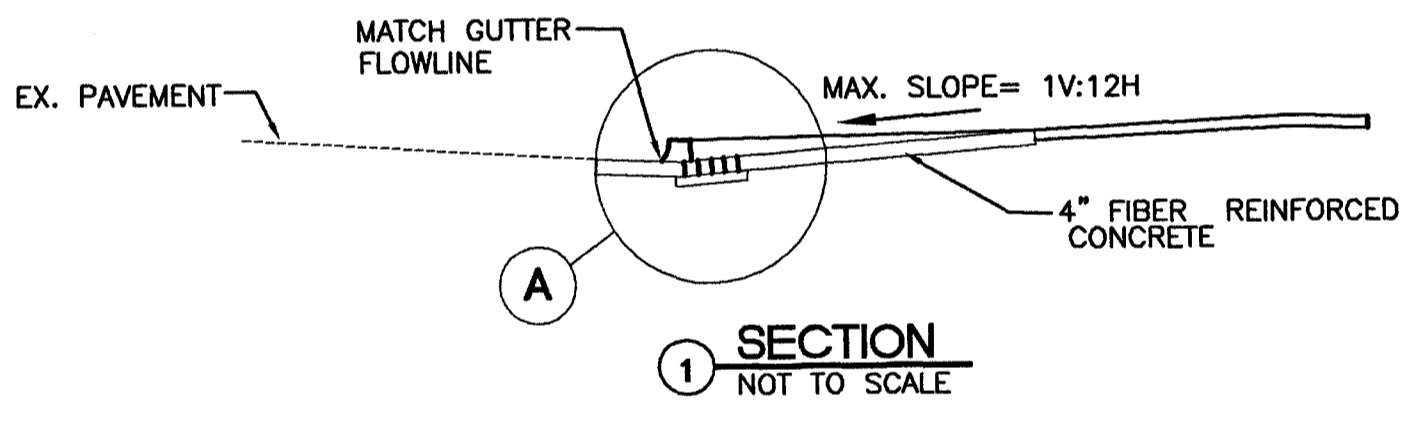
TRAFFIC CONTROL PLAN

WORKING NUMBER: TCP-1
 DRAWING NUMBER: 12



- NOTES:
1. STREET SIDE OF WARNING STRIP SHALL ALIGN WITH FACE OF CURB.
 2. BRICK PAVERS FOR DETECTABLE WARNINGS SHALL BE "PAVESTONE" DETECTABLE WARNING PAVERS OR APPROVED BY EQUAL. PAVER COLOR SHALL BE PAVESTONE "CHARCOAL" OR APPROVED EQUAL.

- BOLLARD NOTES:
1. ALL CONCRETE SHALL BE 3,000 PSI EXTERIOR MIX.
 2. ALL LUMBER SHALL MEET THE REQUIREMENTS OF SECTIONS 718 AND 820.
 3. WOOD USED FOR BOLLARDS SHALL BE PRESSURE TREATED AND GROUND CONTACT RATED.



- SIDEWALK NOTES:
1. ALL SIDEWALK TO RECEIVE LIGHT BROOM FINISH.
 2. PROVIDE 1/2" EXPANSION JOINTS IN SIDEWALKS @ 60' MAX SPACING.
 3. PROVIDE TOOLED CONTRACTION JOINTS IN SIDEWALKS @ 10' SPACINGS.
 4. INSTALL EXPANSION JOINT AT THE END OF EACH CONCRETE PLACEMENT.

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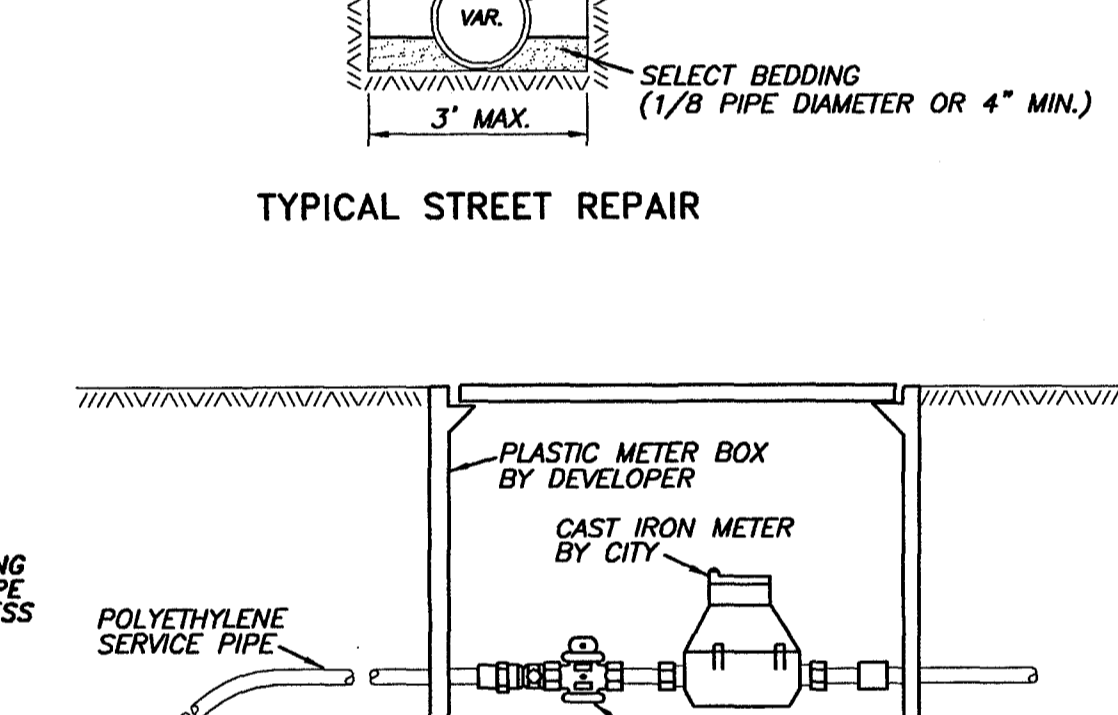
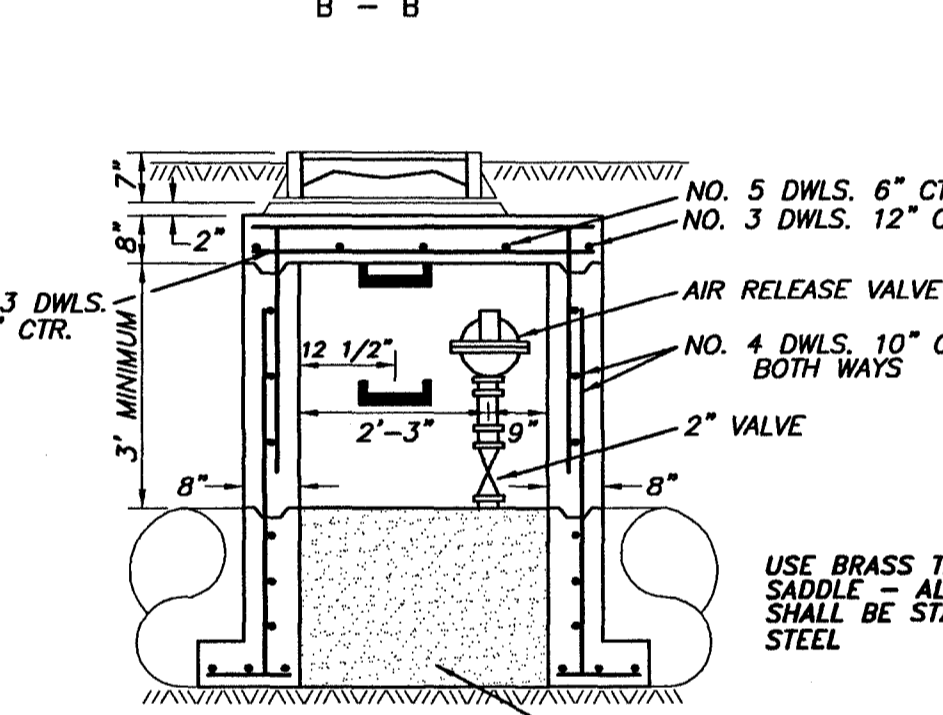
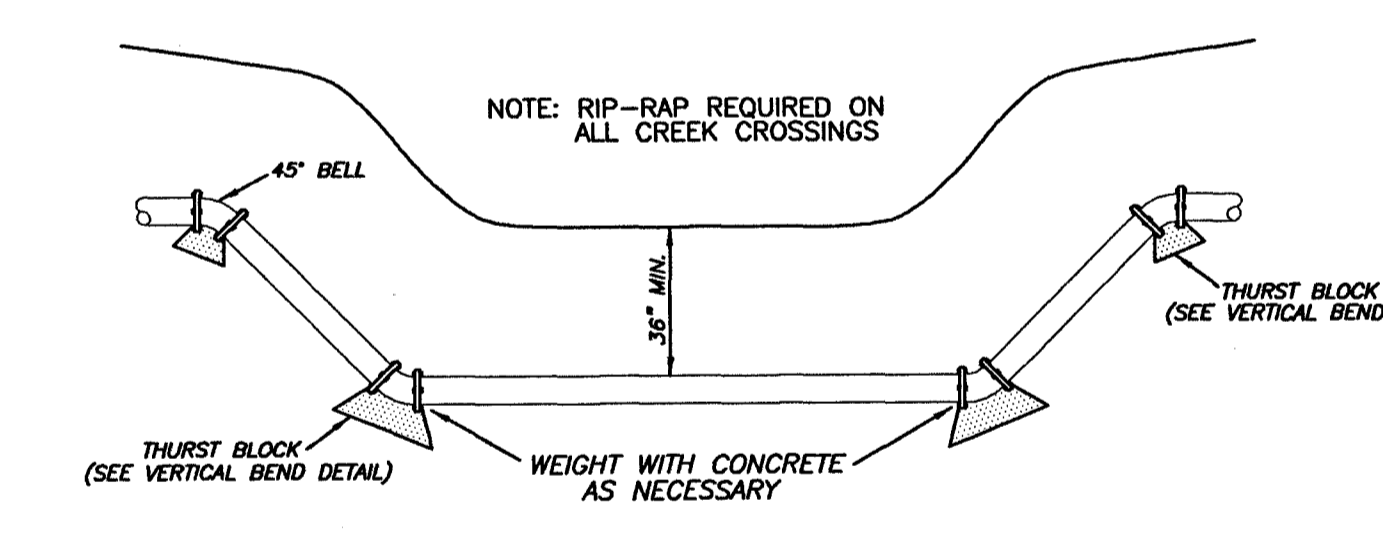
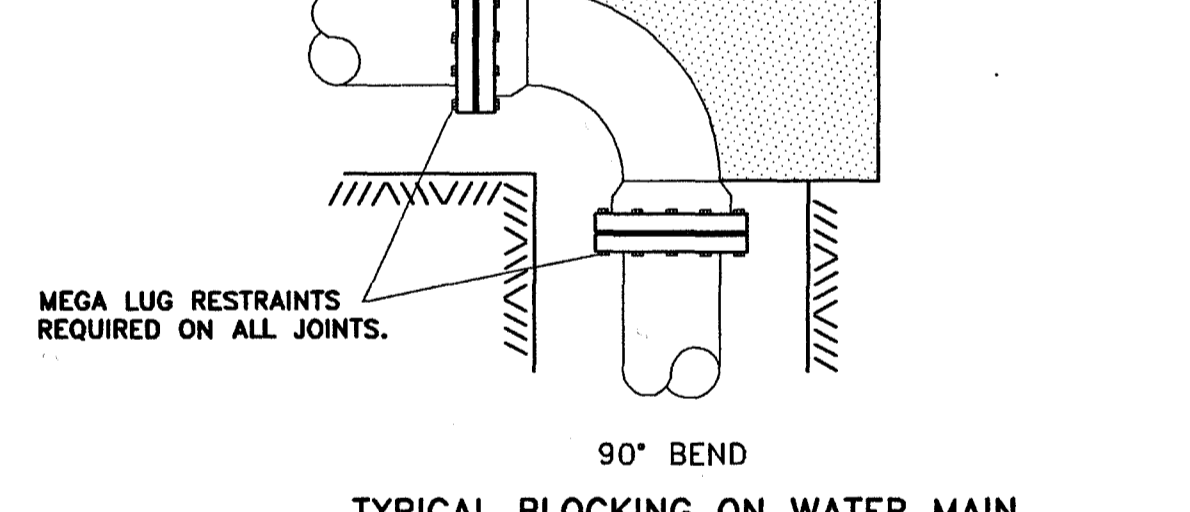
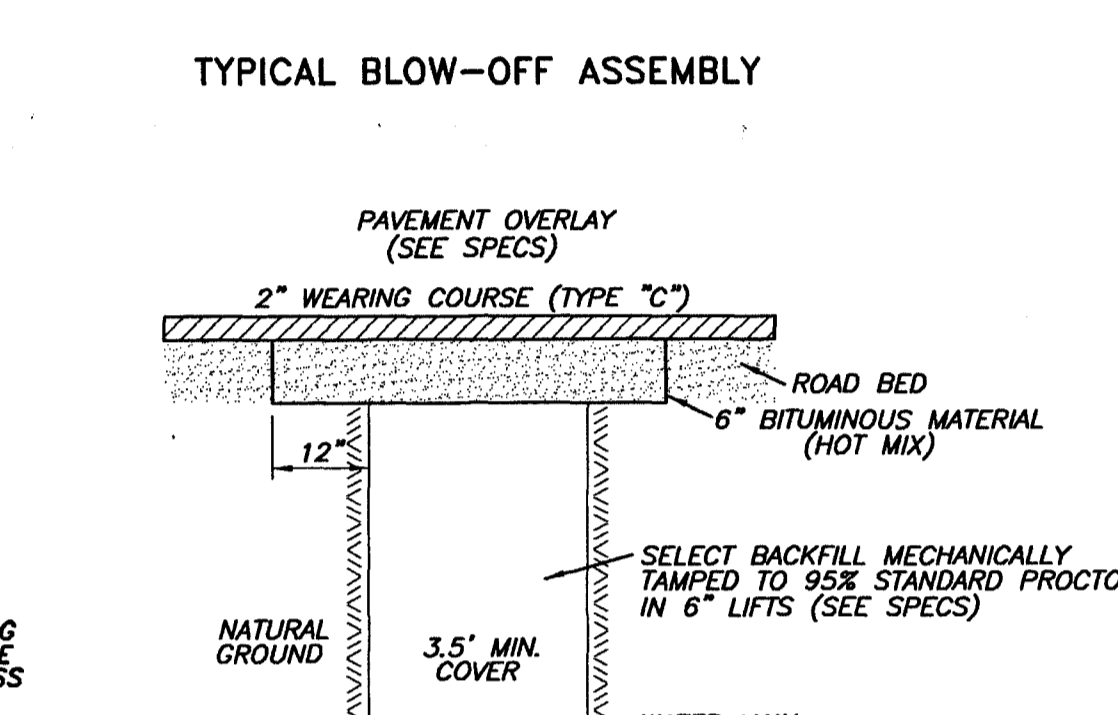
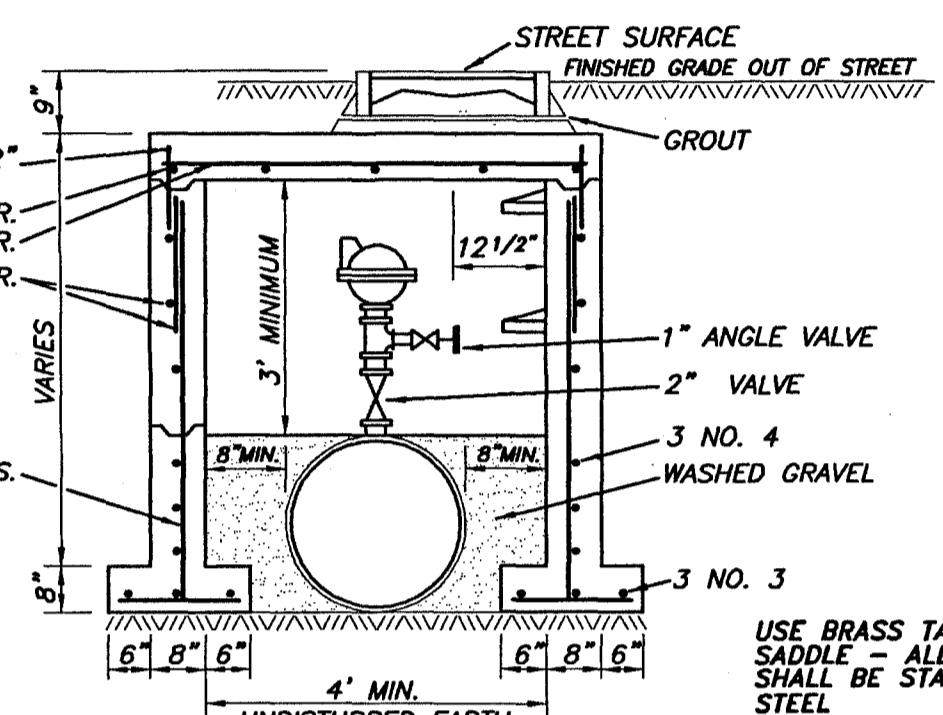
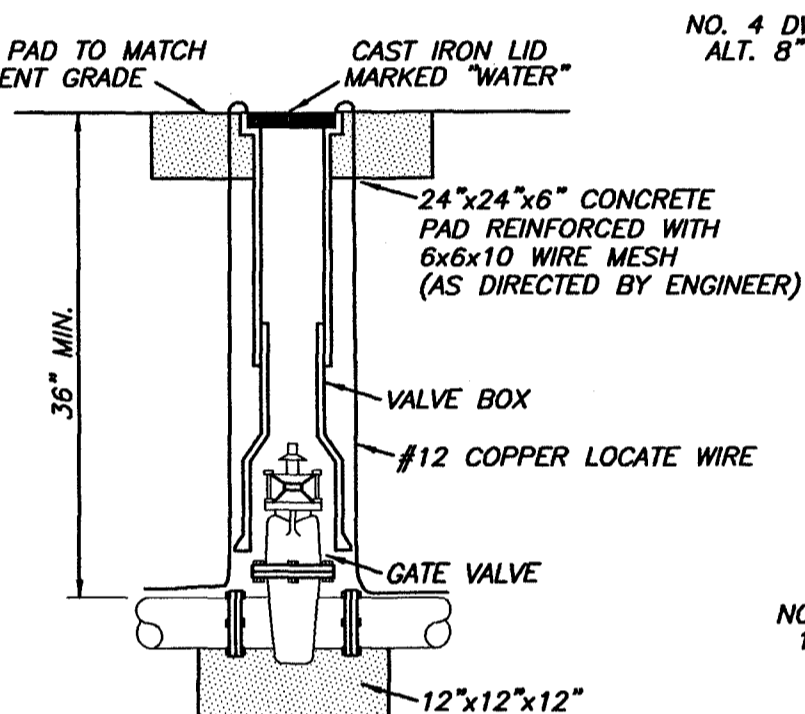
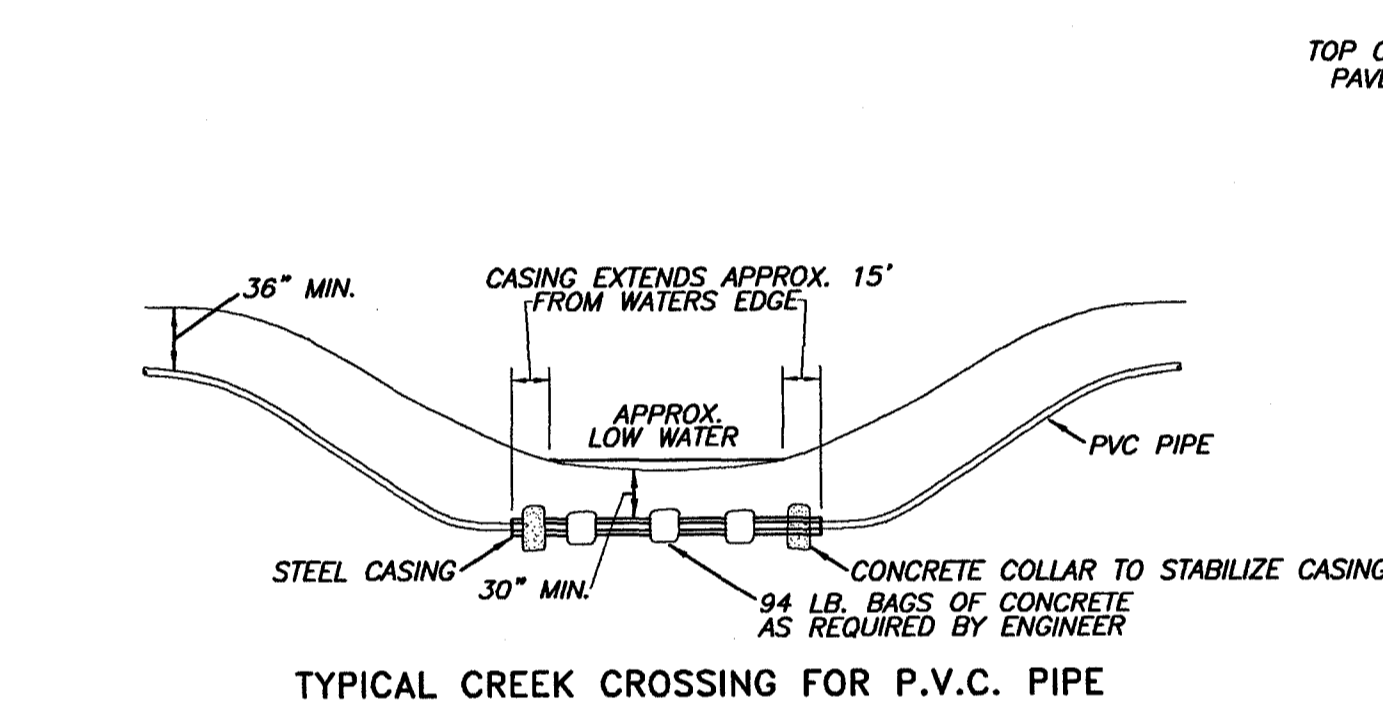
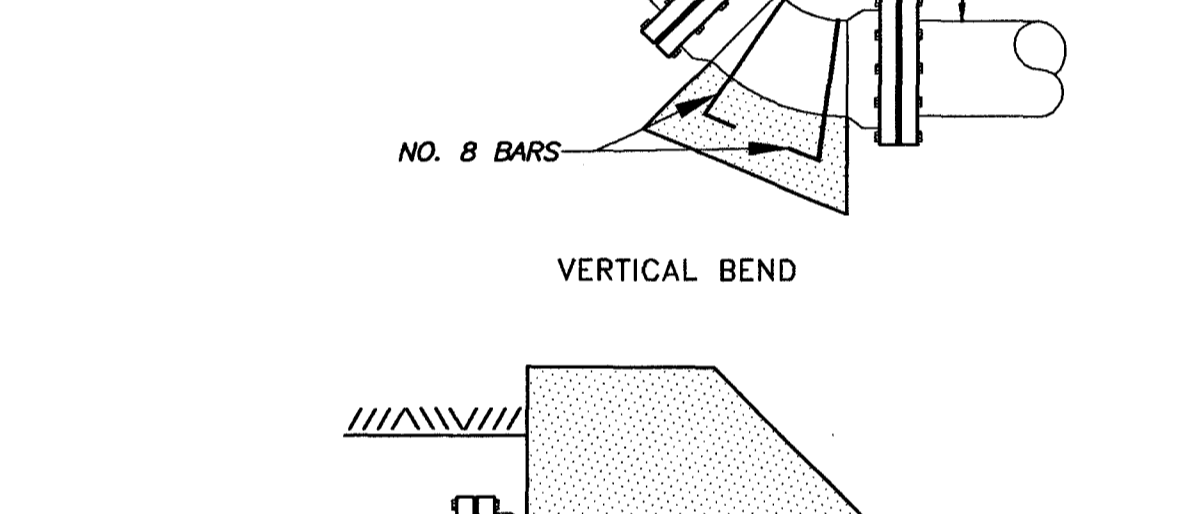
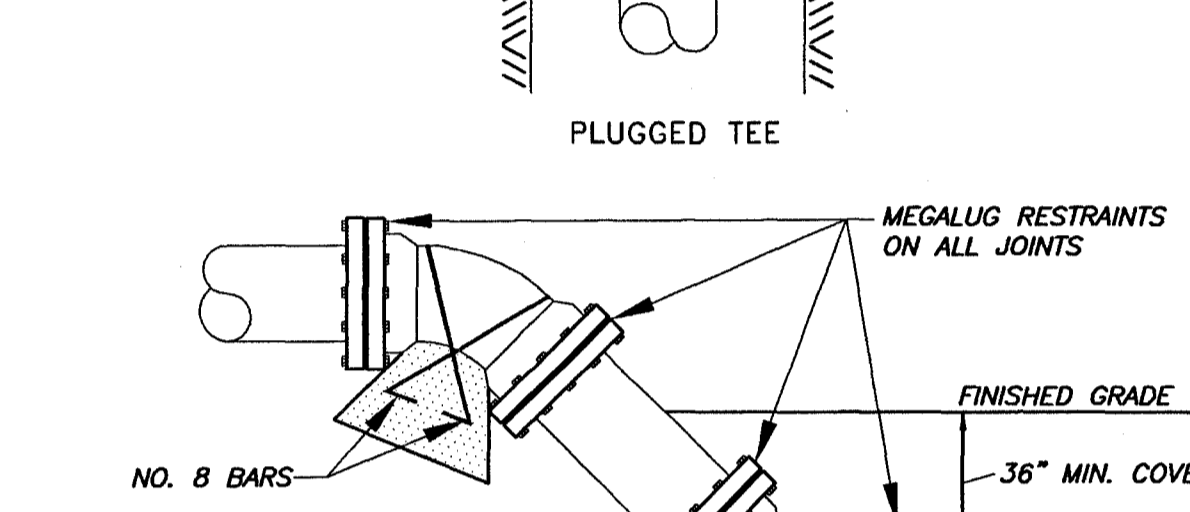
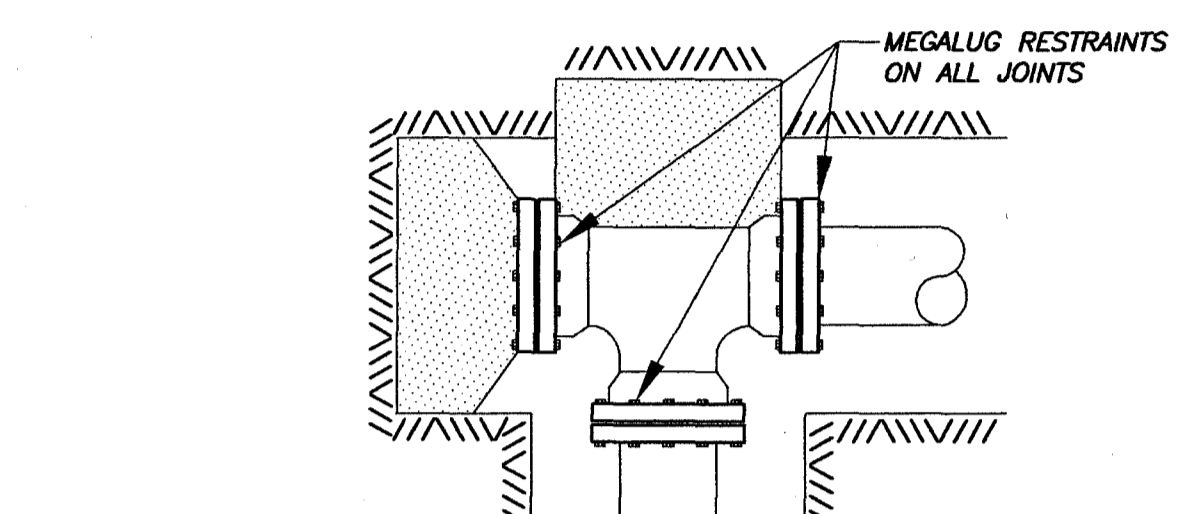
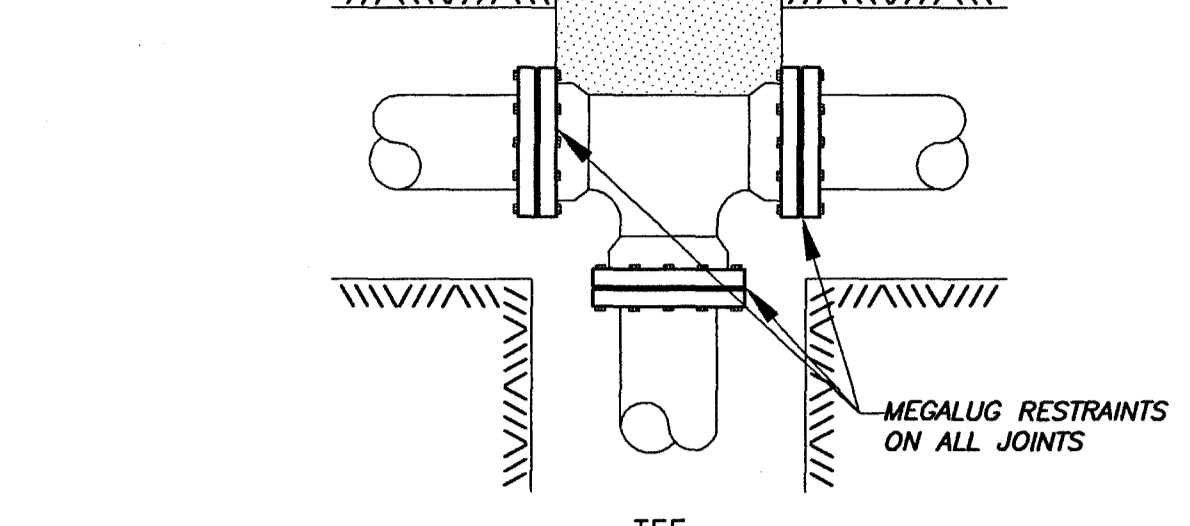
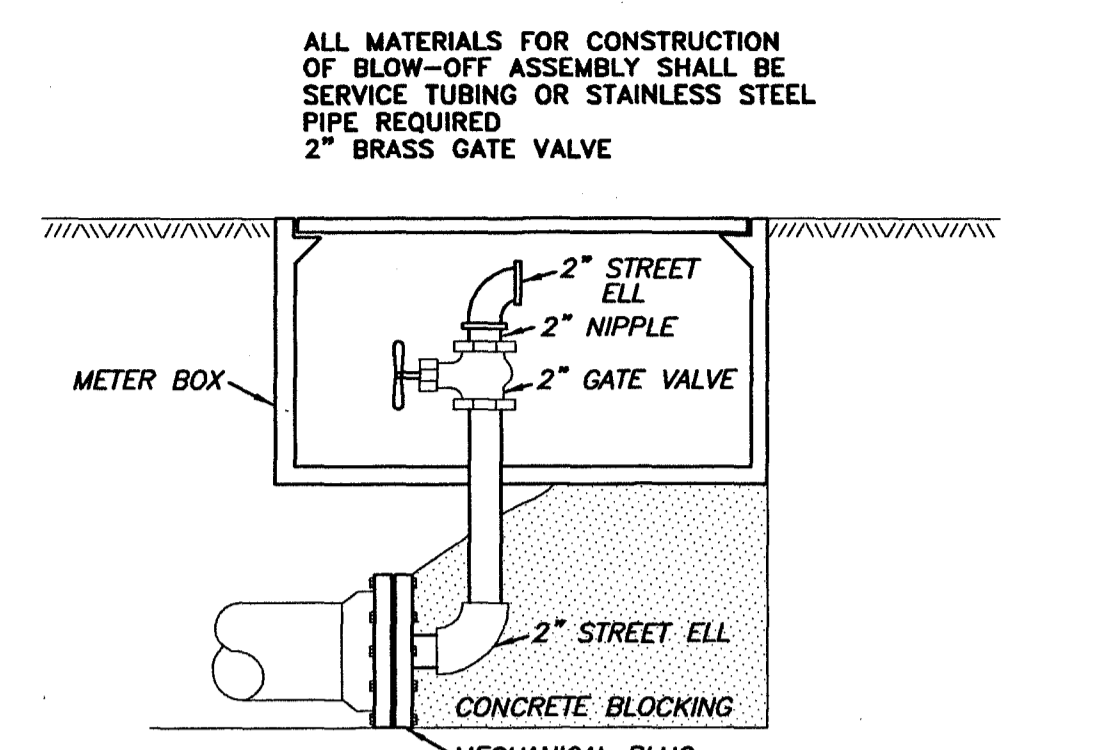
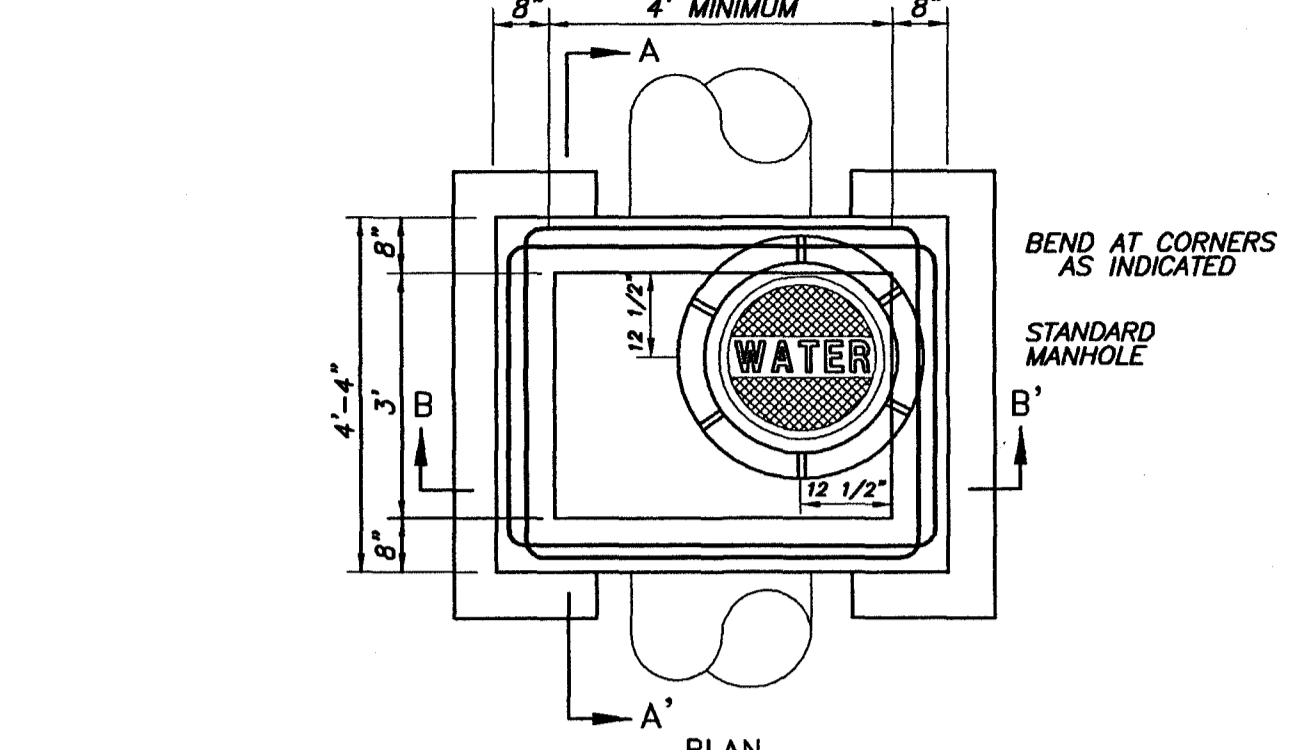
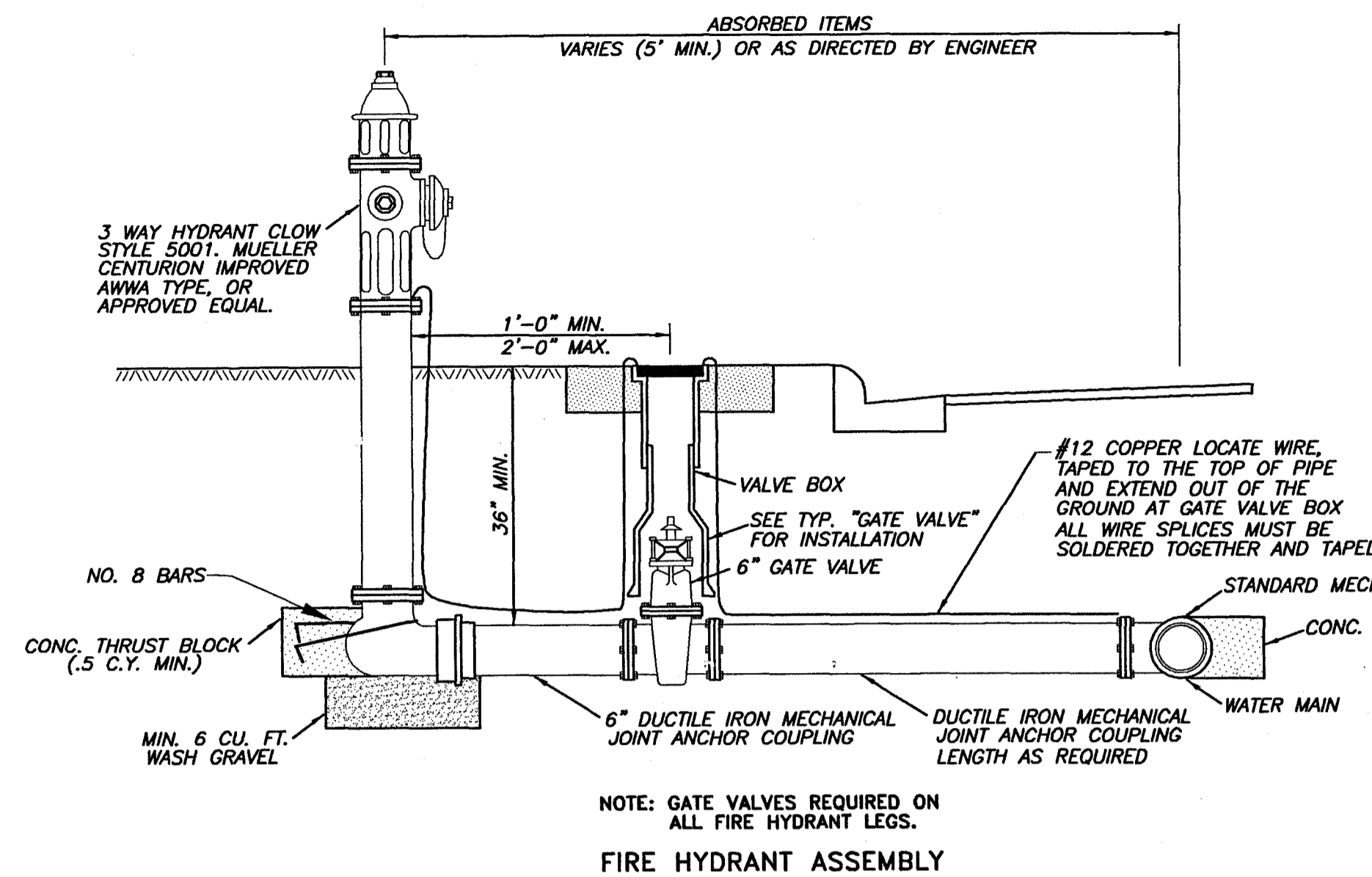
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				SURVEYED BY:
				DSGN: M.J.B. DATE: 01/24/05
				DRWN: A.R.W. DATE: 01/24/05
				CHKD: DATE:
				QA/QC: DATE:

**HIGHLAND COLONY PARKWAY
 AT STEED ROAD AREA TIF IMPROVEMENTS
 N.S. ACCOUNT NO. 05651.001**

SEAL:

NEEL-SCHAFFER
 P.O. Box 22625 / 39225-2625
 666 North Street, Suite 201
 Jackson, MS 39202
 PH: (601)948-3071 / FAX: (601)948-3178

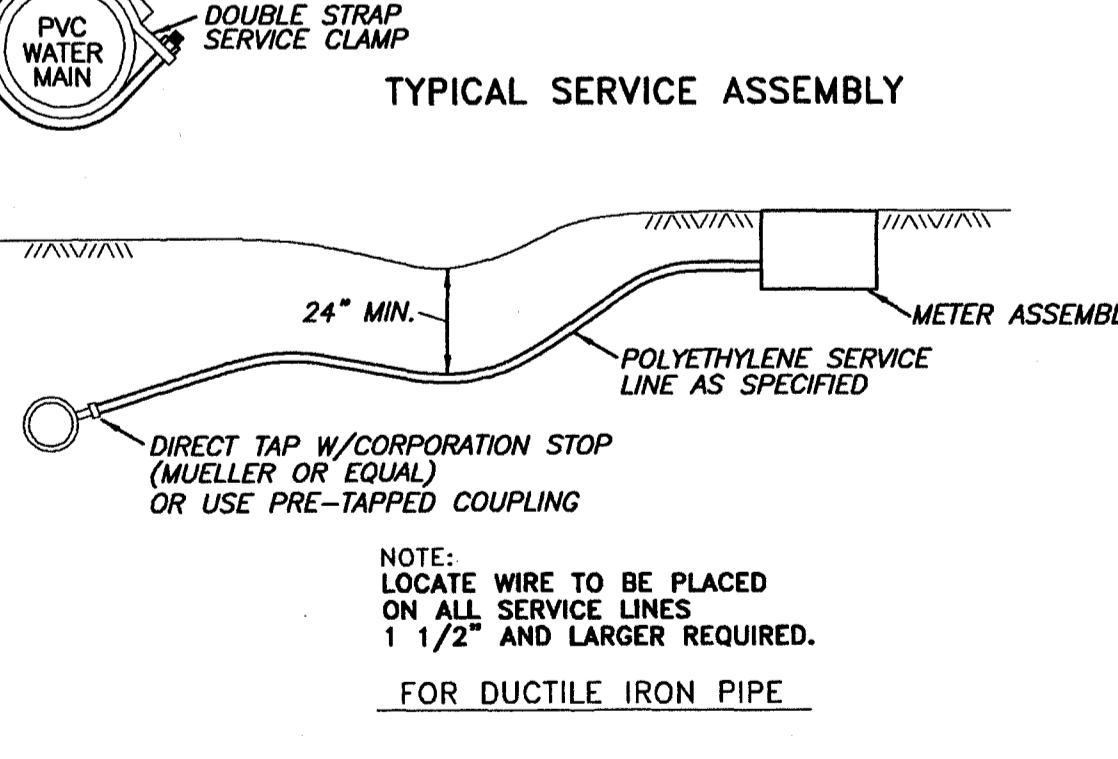
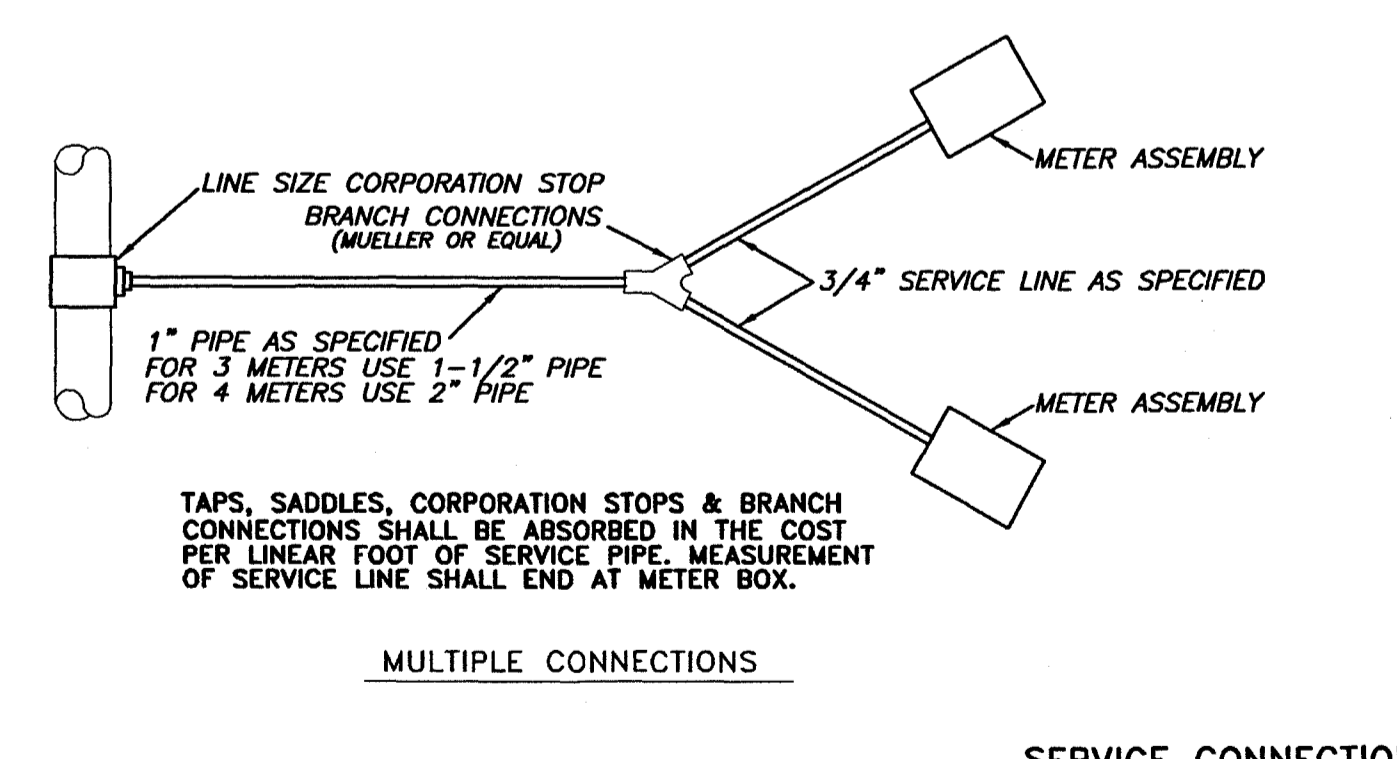
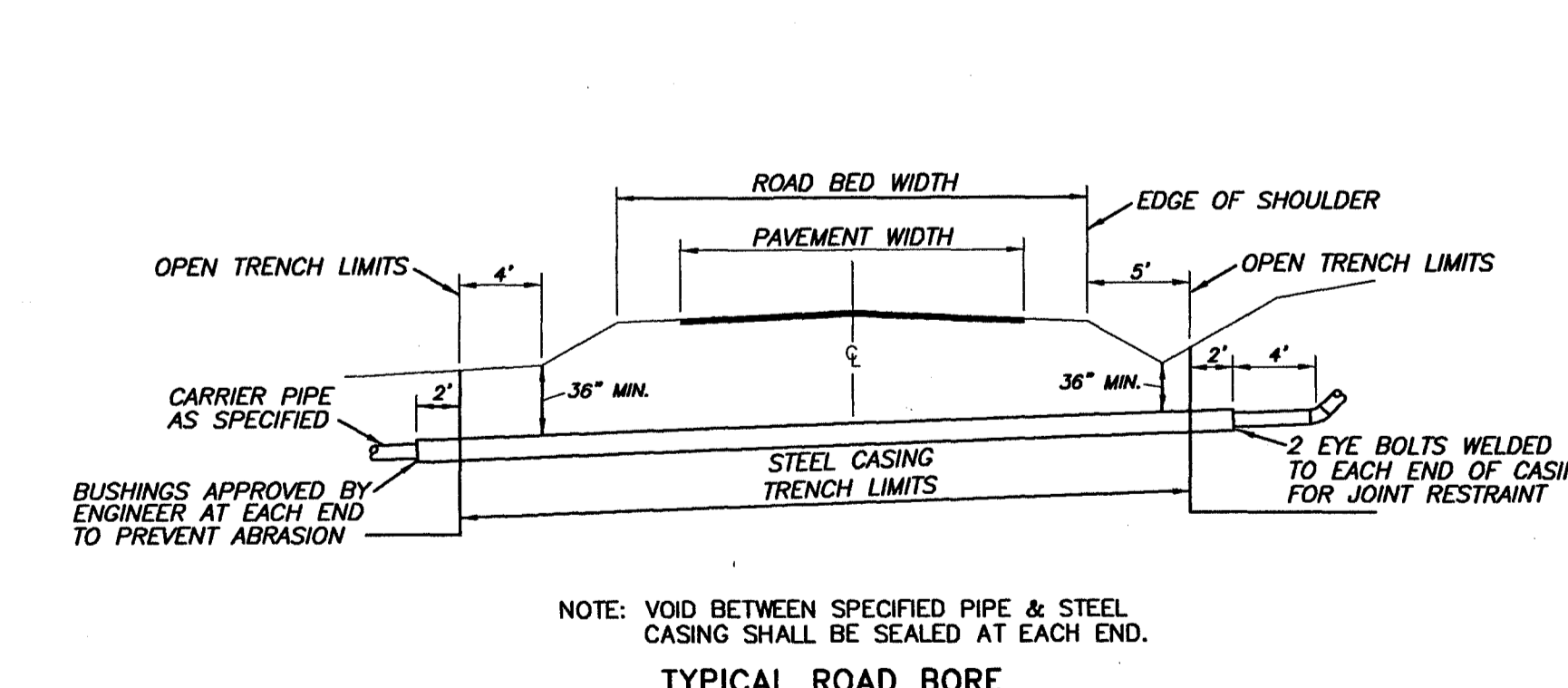
DETAILS	
WORKING NUMBER: D-1	DRAWING NUMBER: 13



BEARING AREA IN SQ. FT.

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	5.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0
4		6.0 (22)	4.0 (15)	4.0 (15)	
6		14.0 (52)	6.0 (22)	4.0 (15)	
8		27.0 (10)	9.0 (33)	6.0 (22)	
12		68.0 (25)	22.0 (80)	9.0 (33)	
16		90.0 (333)	52.0 (19)	18.0 (67)	

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)



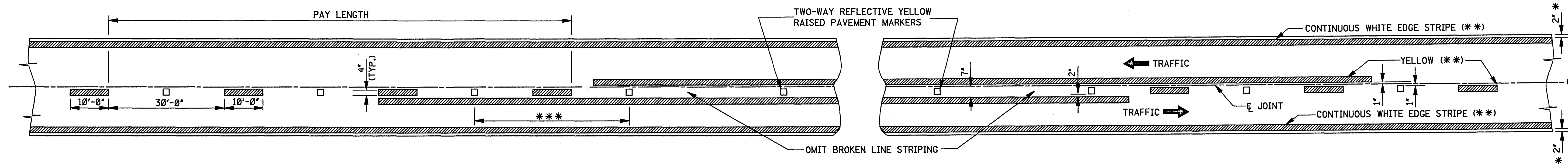
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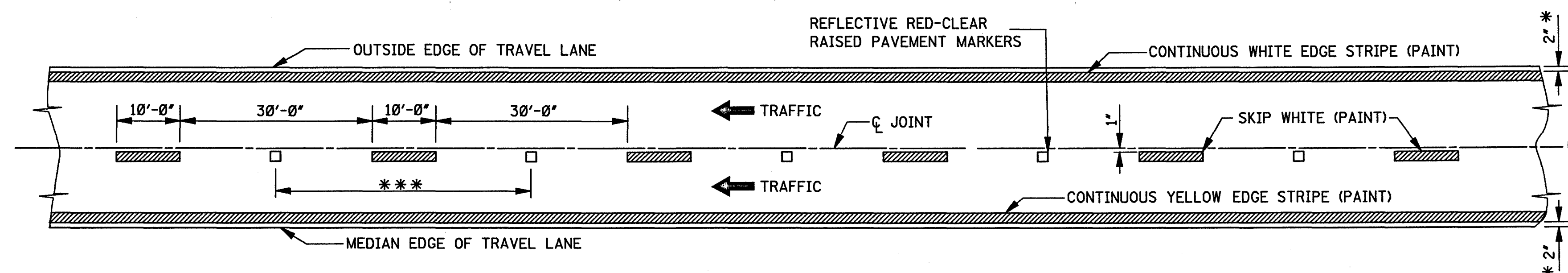
**HIGHLAND COLONY PARKWAY
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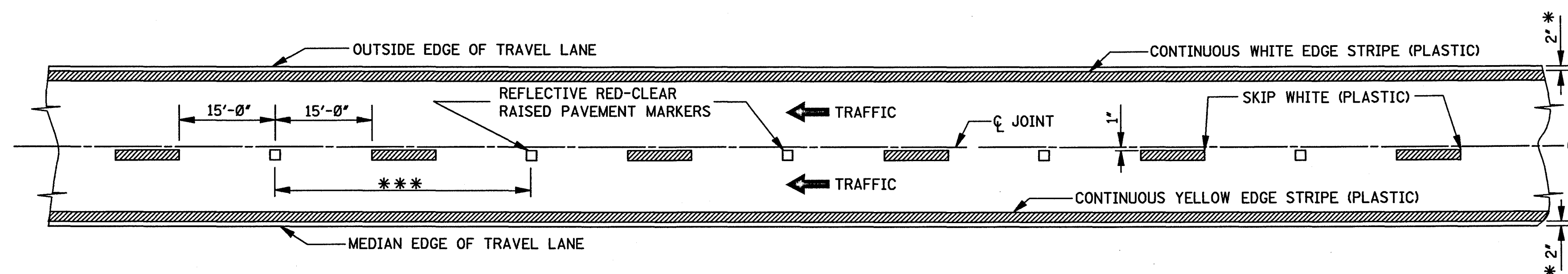
WORKING NUMBER: WD-1
DRAWING NUMBER: 14



TWO-WAY TRAFFIC
(ASPHALT OR CONCRETE PAVEMENT)



4-LANE WITH ONE-WAY TRAFFIC (PAINT)



4-LANE WITH ONE-WAY TRAFFIC (PLASTIC)

GENERAL NOTES:

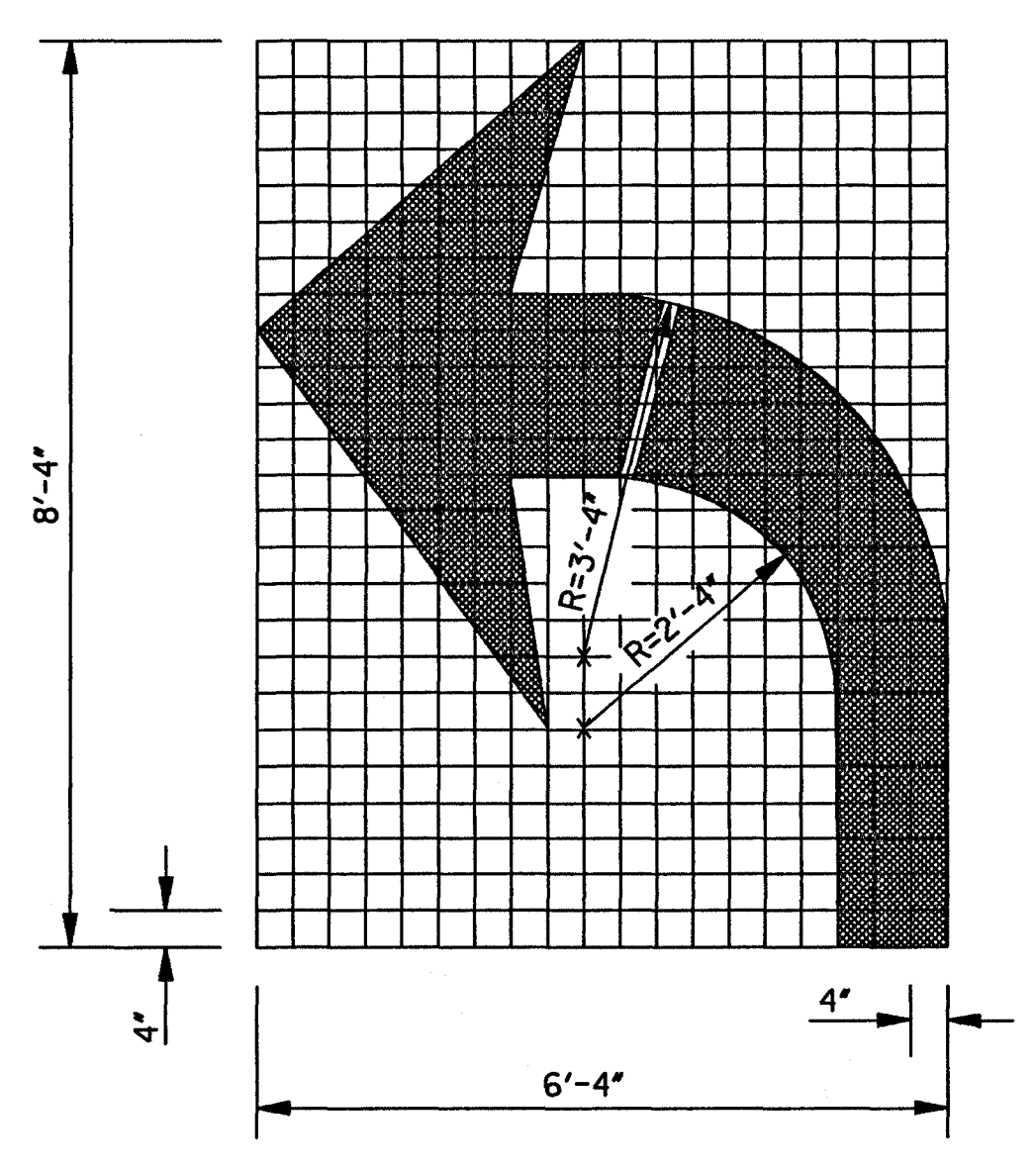
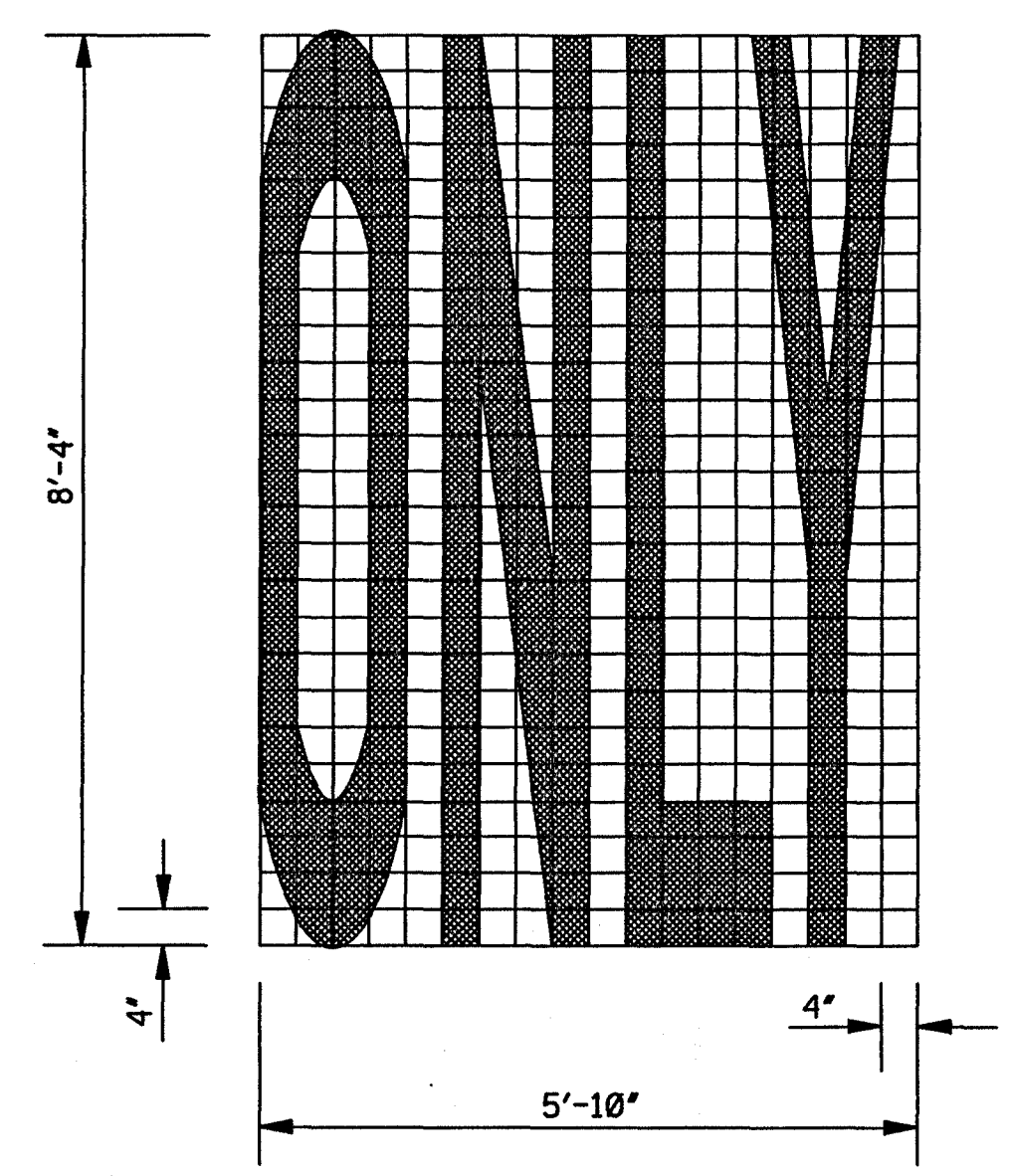
- * 1. 2" UNLESS SHOWN ELSEWHERE ON THE PLANS.
- ** 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR PLASTIC AS INDICATED IN PAY ITEMS).
- *** 3. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS:

	URBAN AREA (ft-in)	RURAL AREA (ft-in)
TANGENT SECTIONS	40'-0"	80'-0"
HORIZONTAL CURVES	40'-0"	40'-0"
INTERCHANGE LIMITS	40'-0"	+ 40'-0"

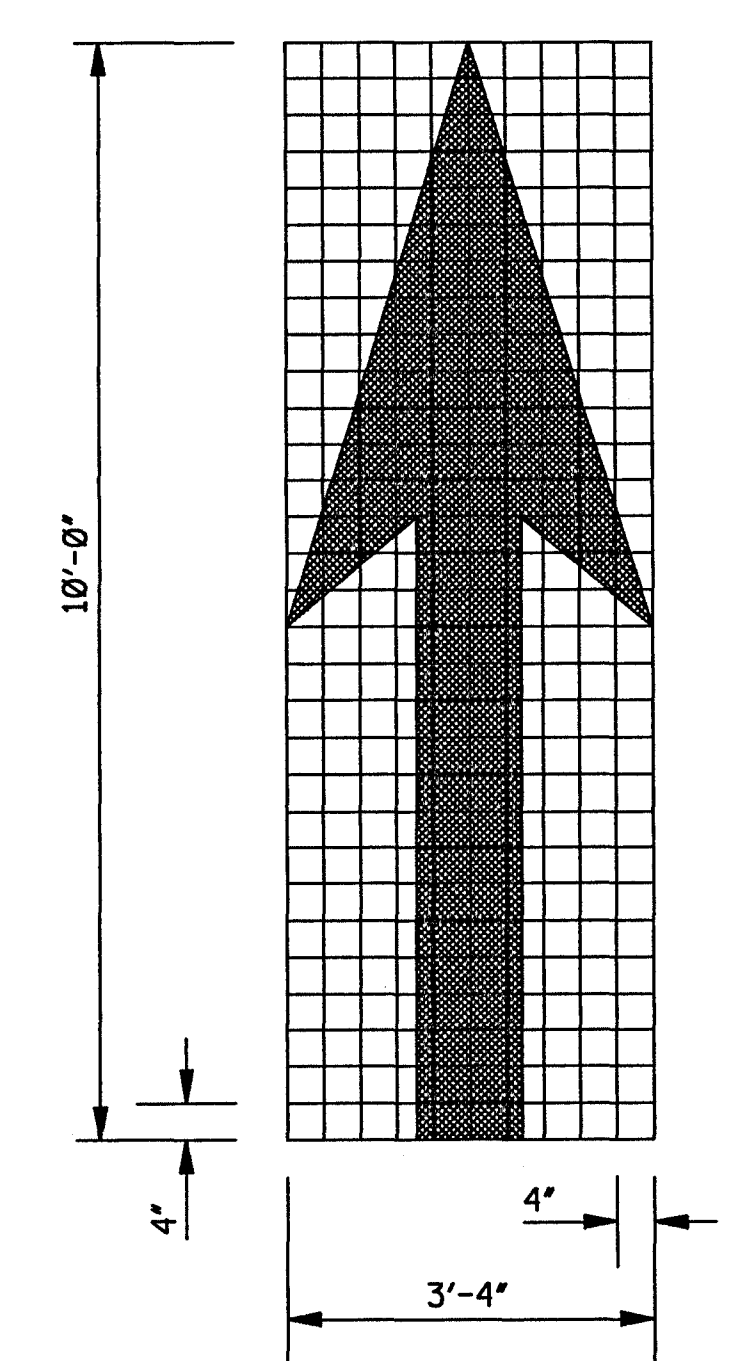
† NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.

4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDT "APPROVED SOURCES OF MATERIALS."

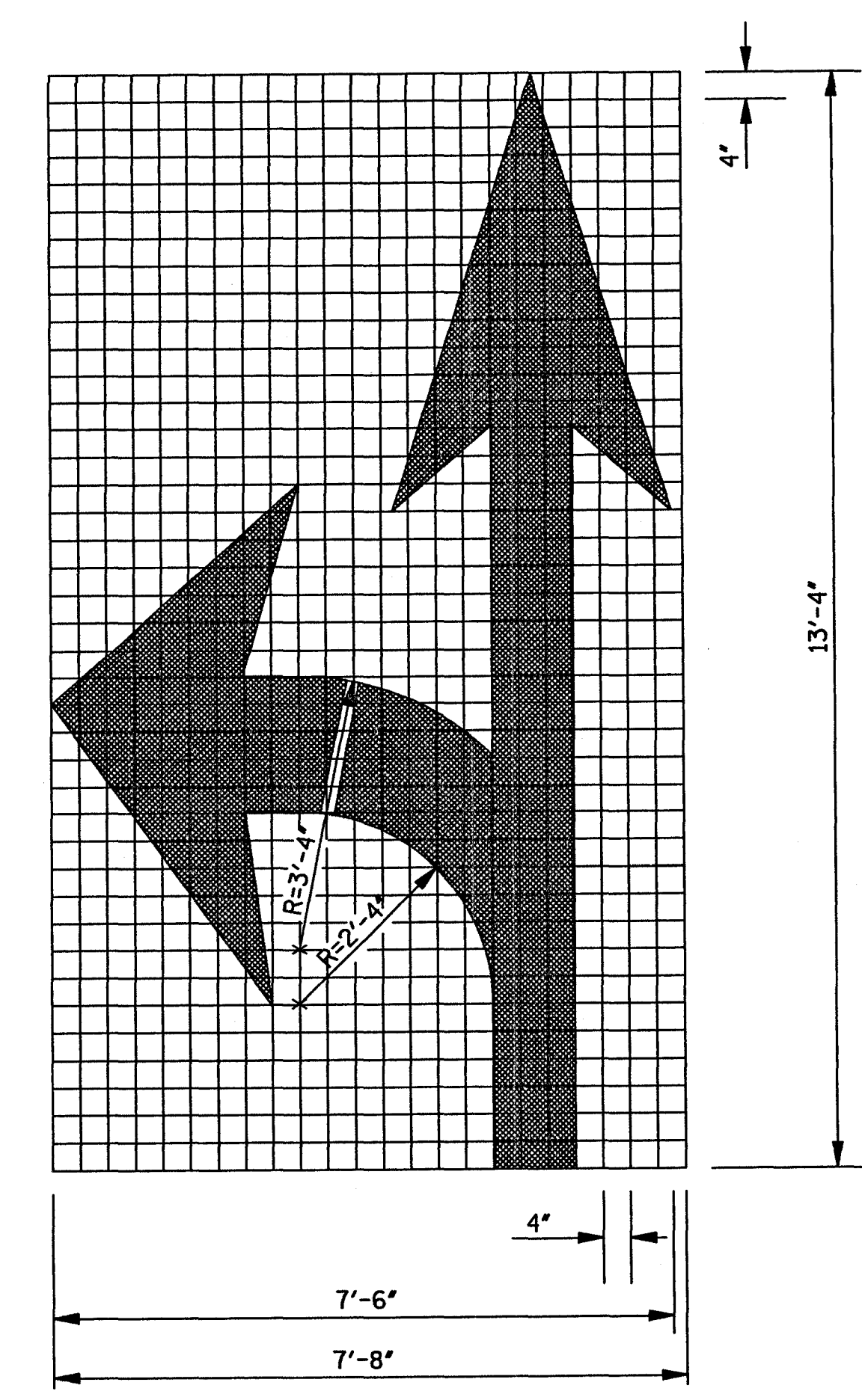
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		<p>PAVEMENT MARKING DETAILS FOR 2-LANE AND 4-LANE DIVIDED HIGHWAYS</p> 	
DATE			
ISSUE DATE: OCTOBER 1, 1998		WORKING NUMBER PM-1	SHEET NUMBER 120



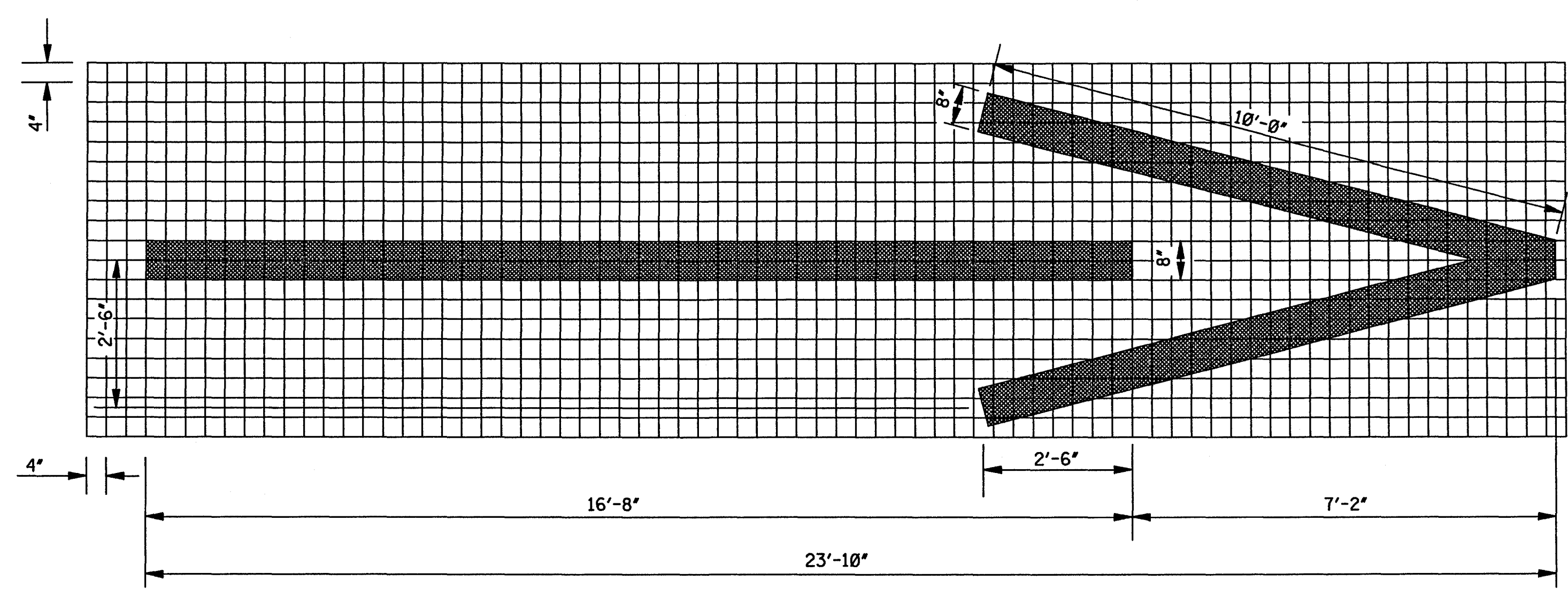
TURN ARROW



THRU ARROW



COMBINATION ARROW




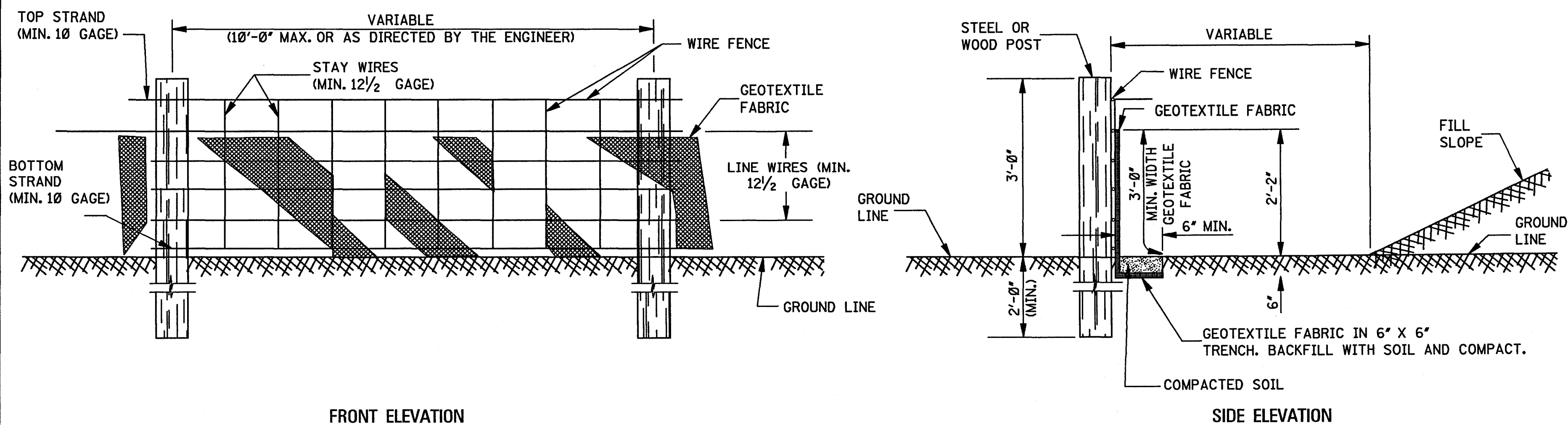
1-WAY ARROW

GENERAL NOTES:

1. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL PAVEMENT MARKING LEGENDS, INCLUDING TURN ARROWS, SHALL BE APPLIED USING HIGH PERFORMANCE MATERIALS.
2. TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTORS) OF 1/2" OR LESS AND EXTENDING THE FULL WIDTH ARE PERMITTED IN EACH LETTER.
3. FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

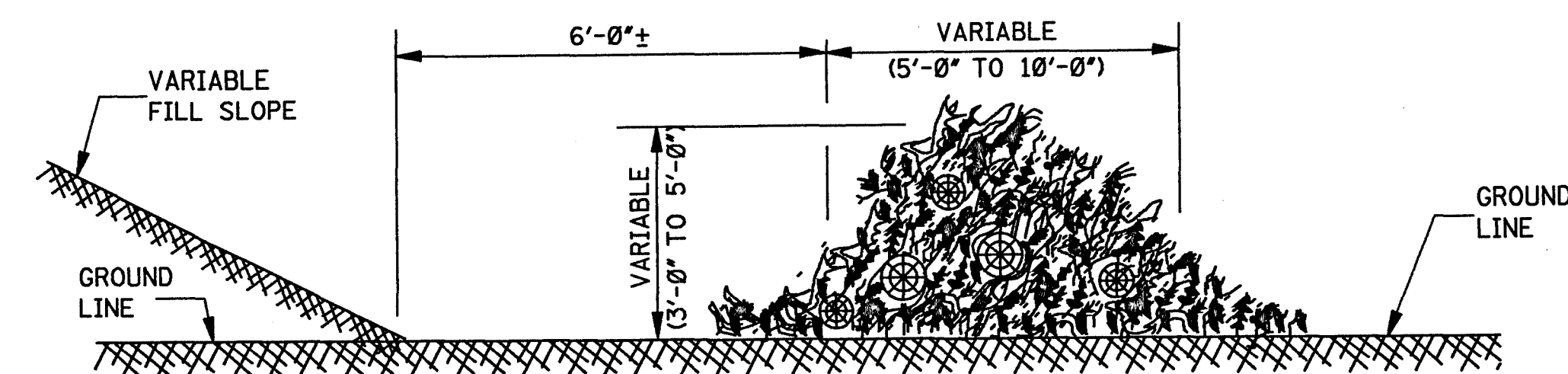
PAY QUANTITIES	
LEGEND/SYMBOL	AREA (ft ²)
ONLY	22.0
TURN ARROW	16.4
THRU ARROW	12.3
COMB. ARROW	27.5
1-WAY ARROW	24.3

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		
PAVEMENT MARKING LEGEND DETAILS		
WORKING NUMBER PM-6	DATE	ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 125	REVISION	



TEMPORARY SILT FENCE

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

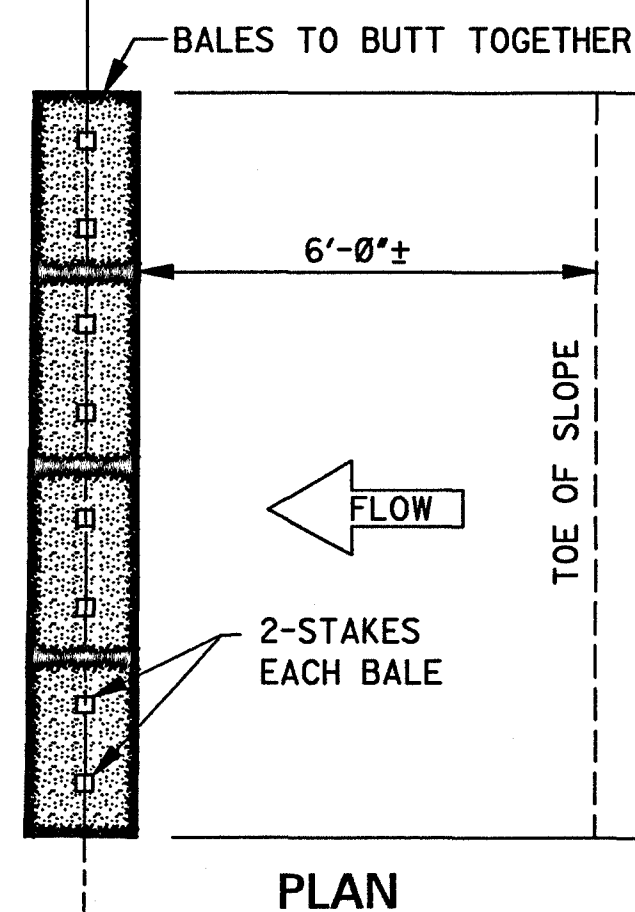
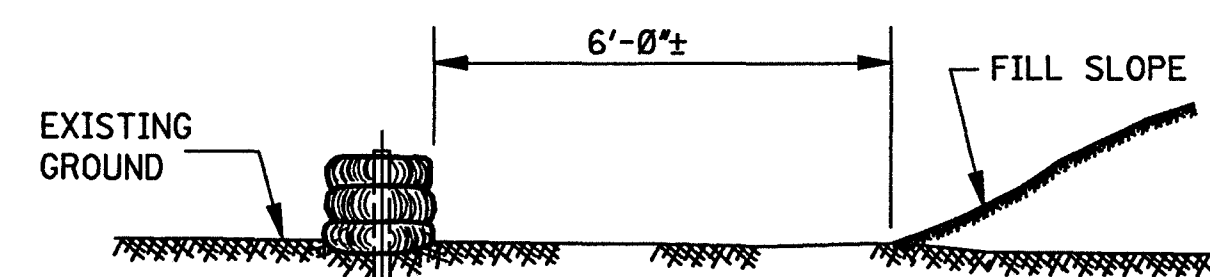


TEMPORARY BRUSH BARRIER

- NOTES:
1. BRUSH BARRIER TO BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
 2. 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.
 3. TO ALLOW WATER TO FLOW THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.

GENERAL NOTES:

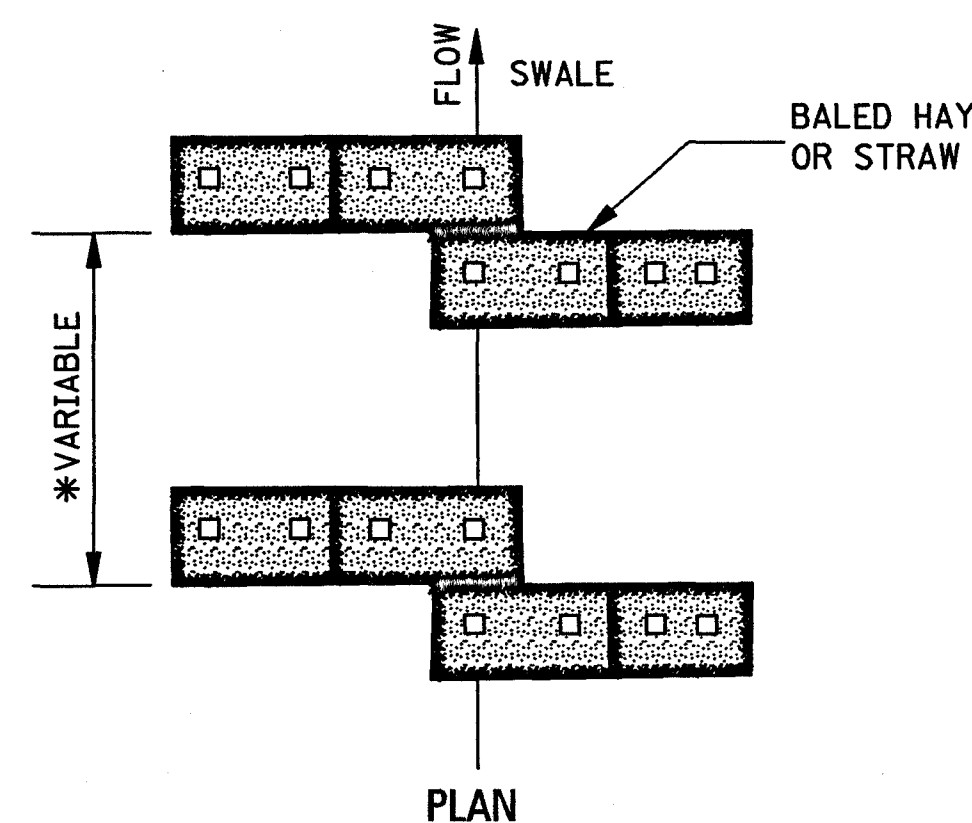
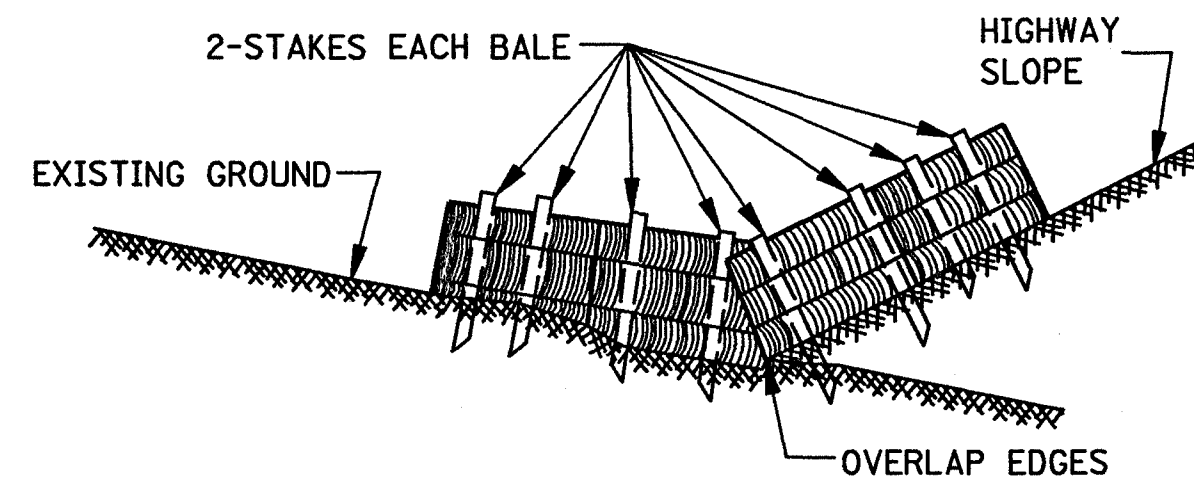
1. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS AND PERFORM ALL WORK FOR THE PROPER INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURES NECESSARY TO CONTROL SILTATION.
2. TEMPORARY BRUSH BARRIERS SHALL BE USED AS REQUIRED BUT WILL NOT BE MEASURED FOR SEPARATE PAYMENT.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



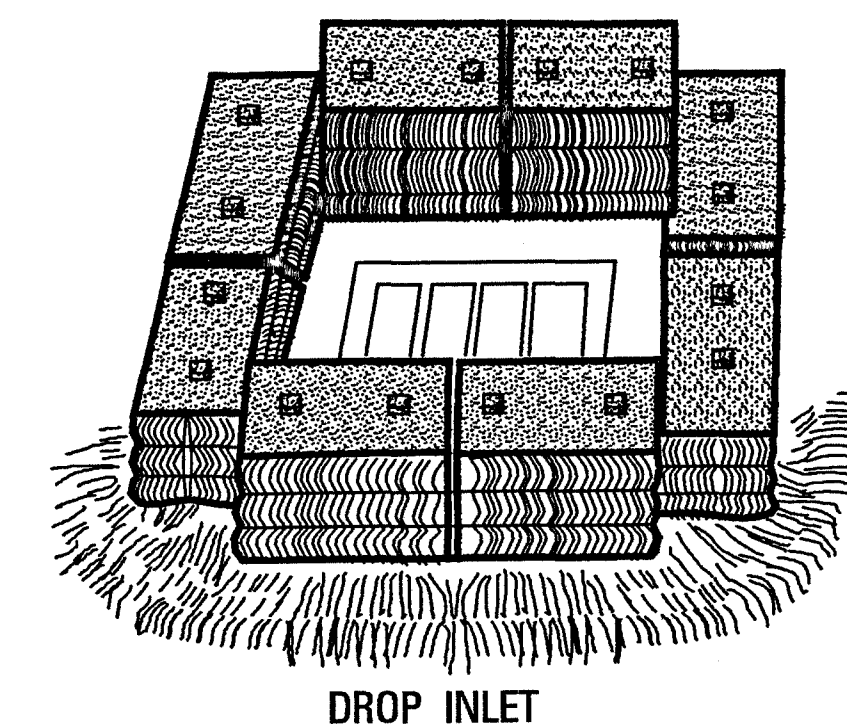
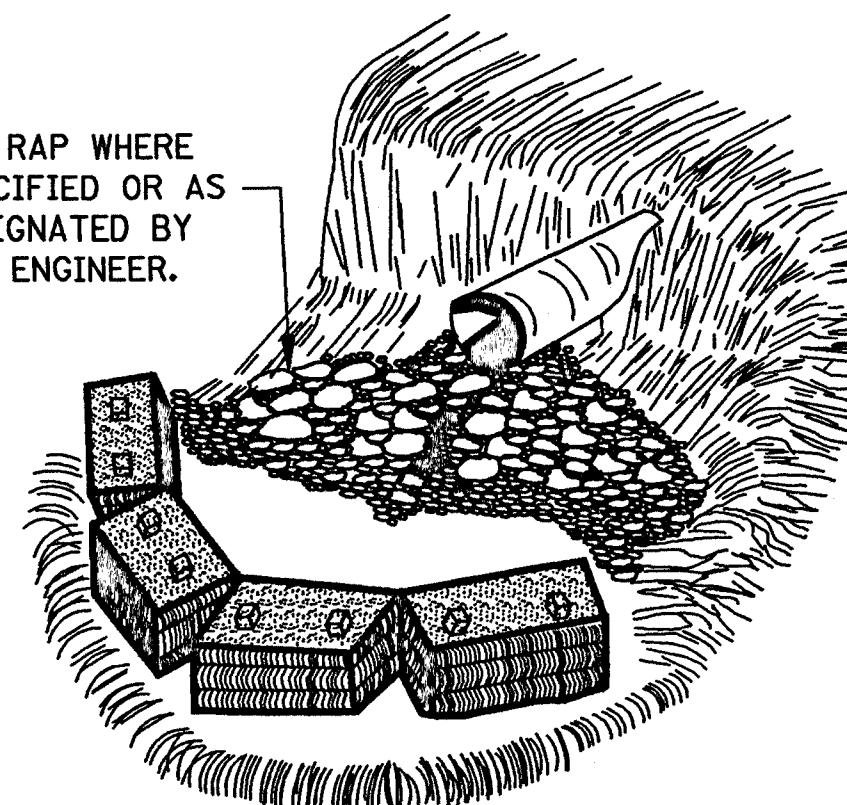
FALL OF DITCH (%)	DISTANCE* (ft)
0 - 1	100'
1 - 2	50'
>2	25'

TEMPORARY EROSION CHECKS USING HAY OR STRAW BALES

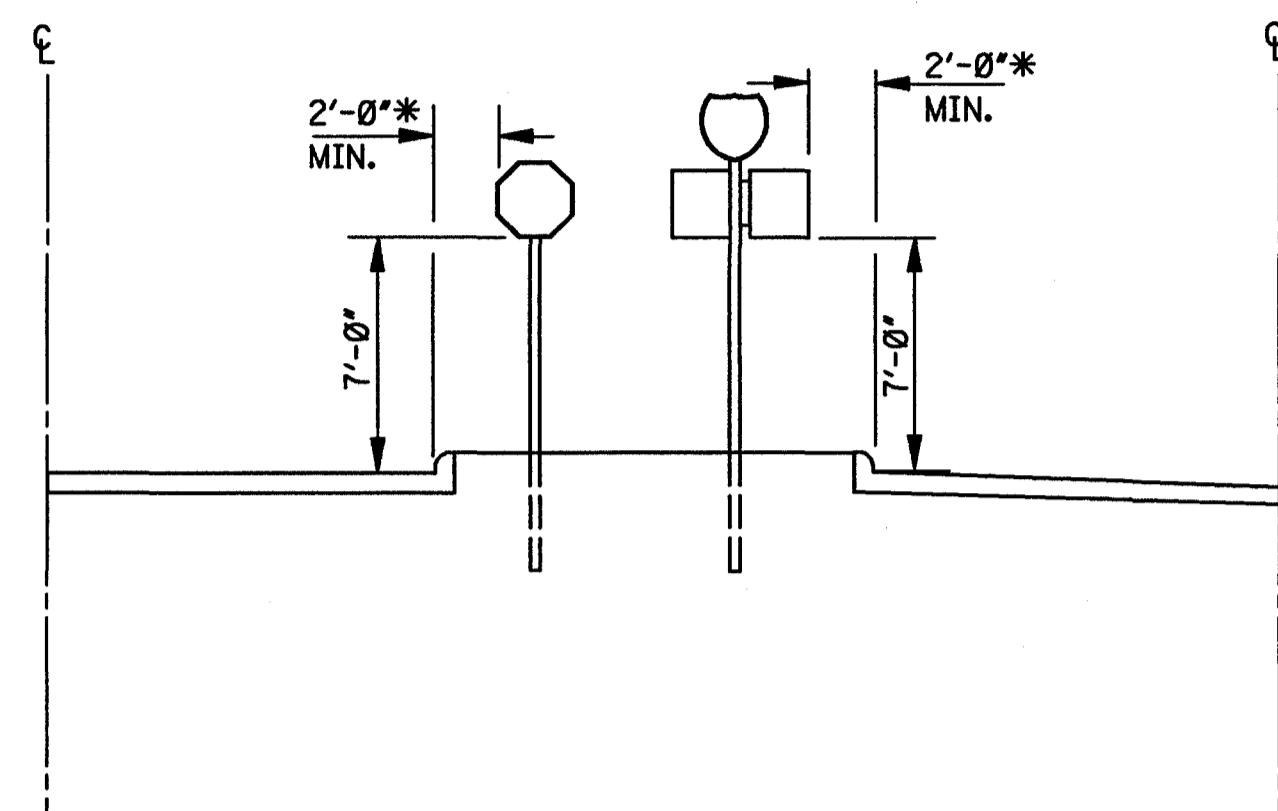
NOTE: EMBED ALL BALES 3" MINIMUM INTO GROUND AND STAKE (2" X 2" X 36") SECURELY.



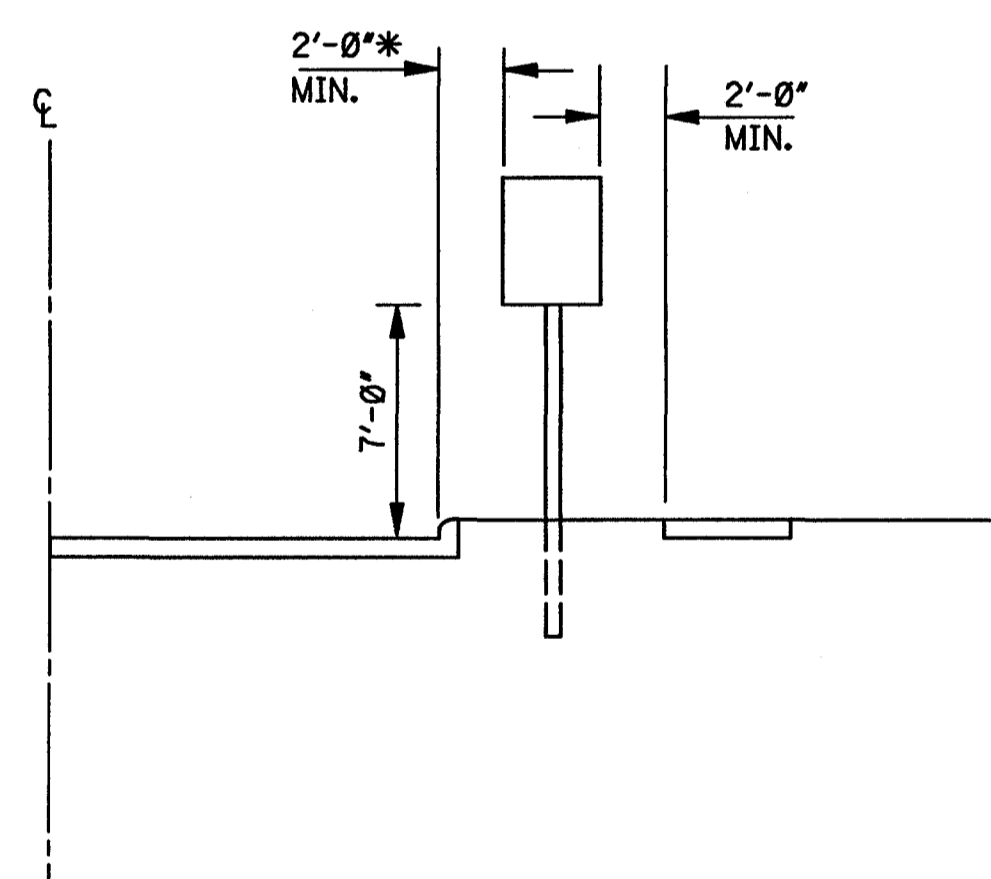
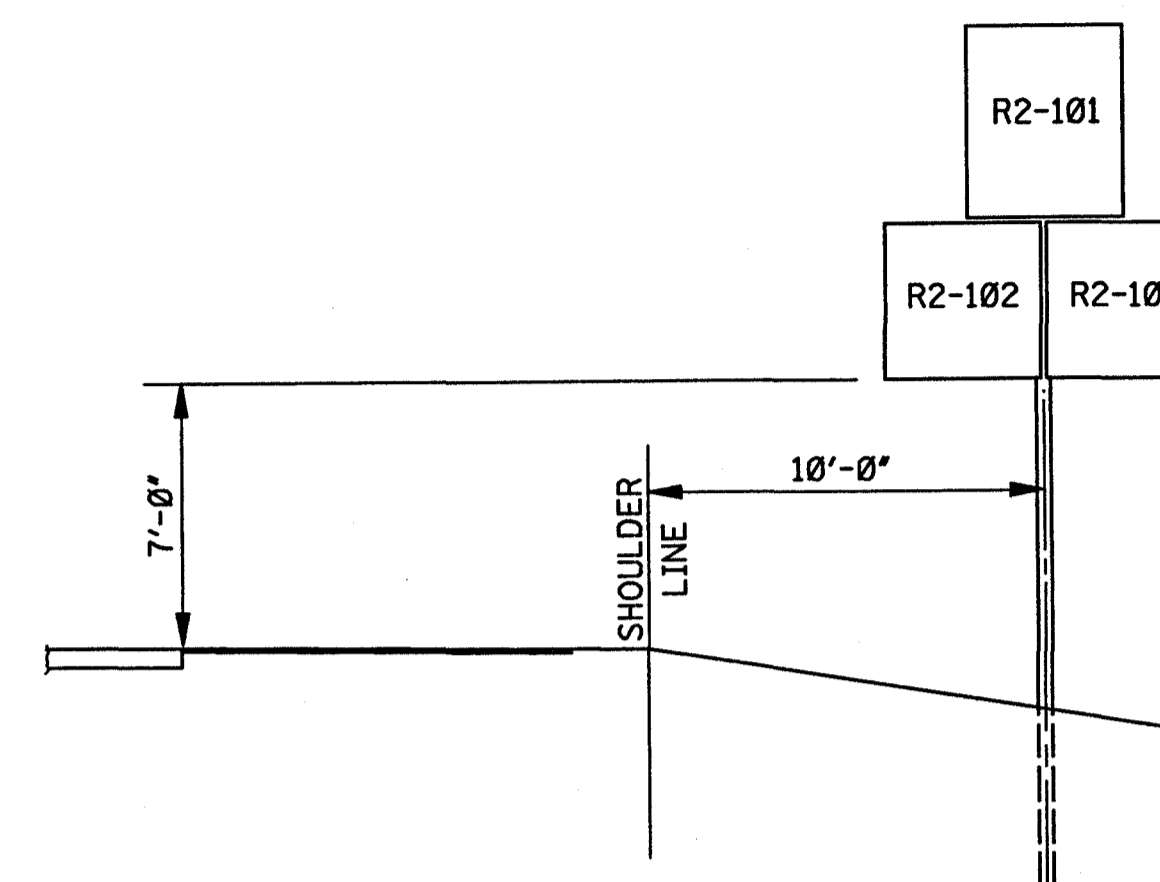
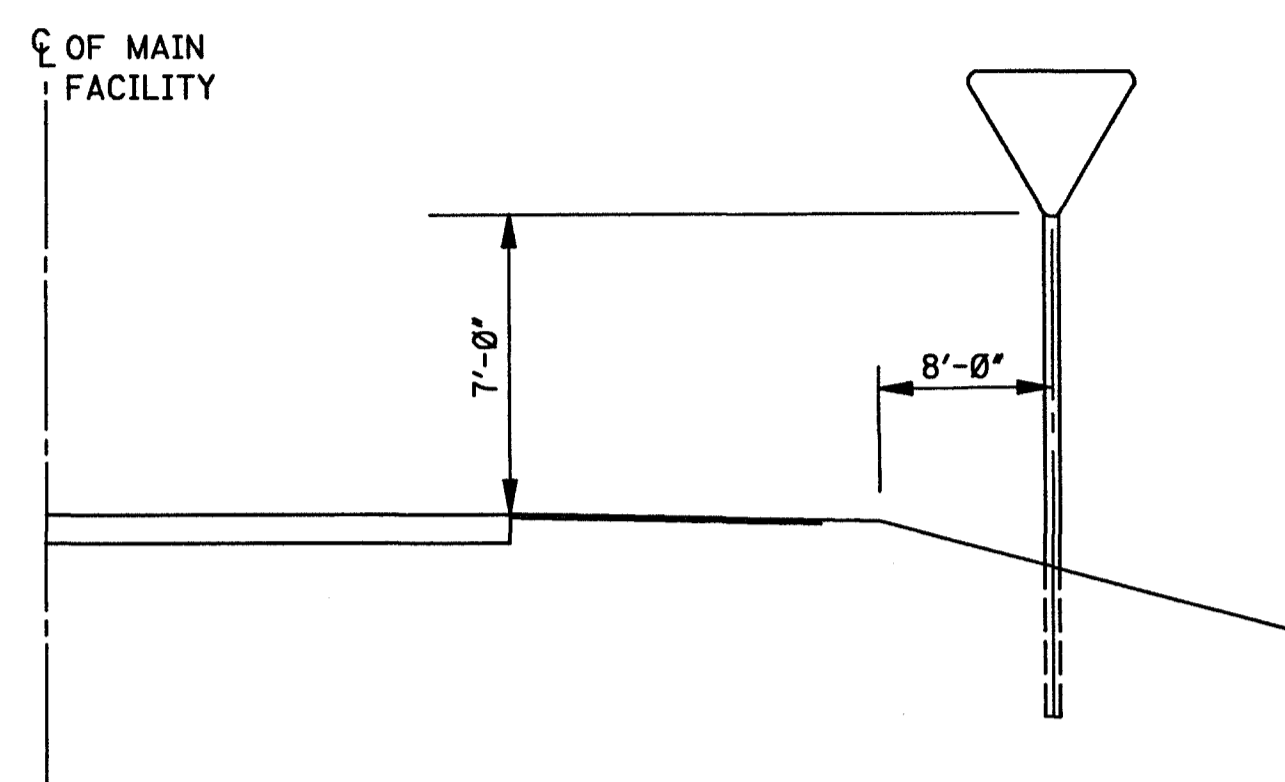
RIP RAP WHERE SPECIFIED OR AS DESIGNATED BY THE ENGINEER.



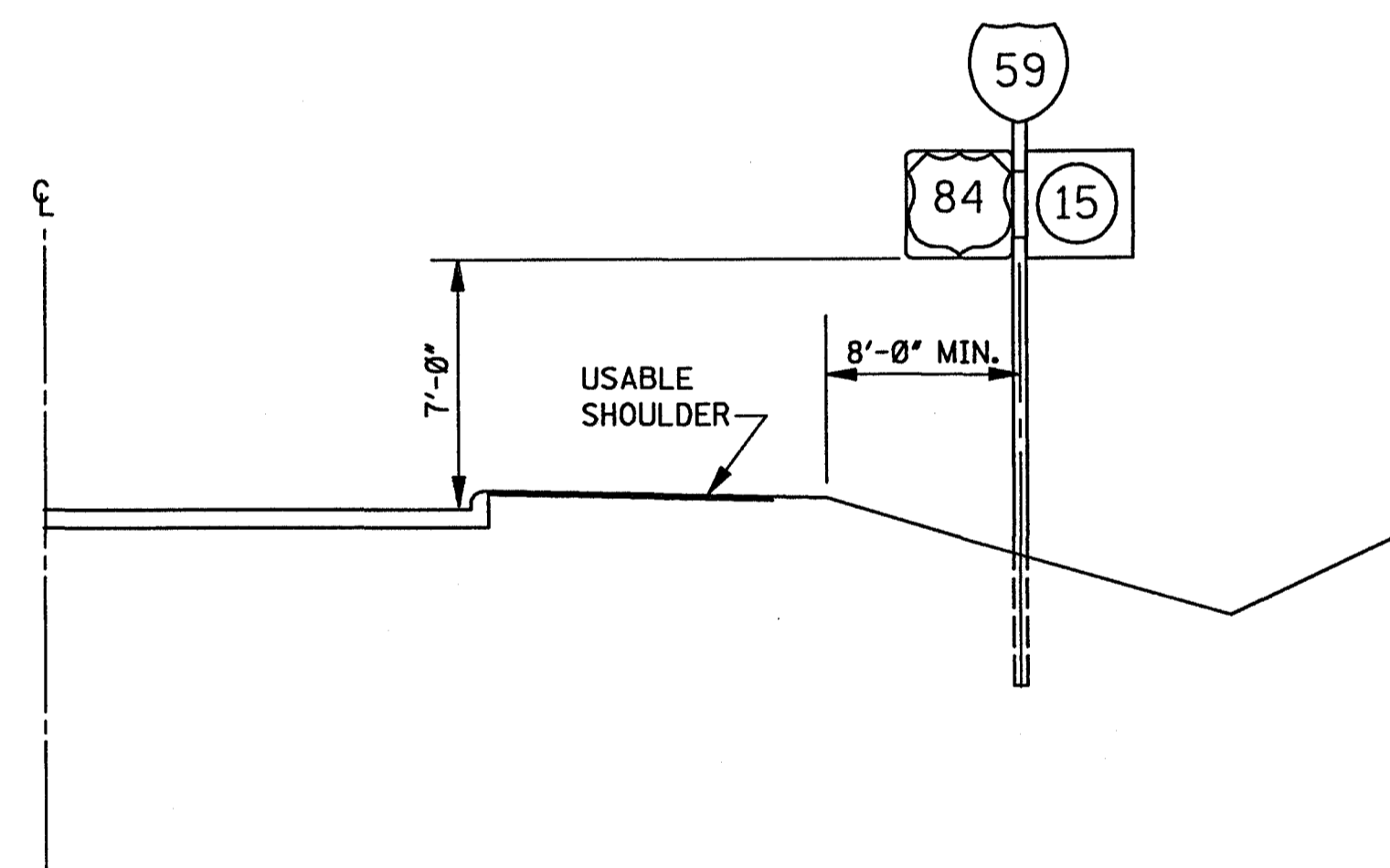
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
TYPICAL TEMPORARY EROSION CONTROL MEASURES (SILT FENCE, HAY BALES & BRUSH BARRIER)	
WORKING NUMBER TEC-1	
SHEET NUMBER 142	
DATE	ISSUE DATE: OCTOBER 1, 1998



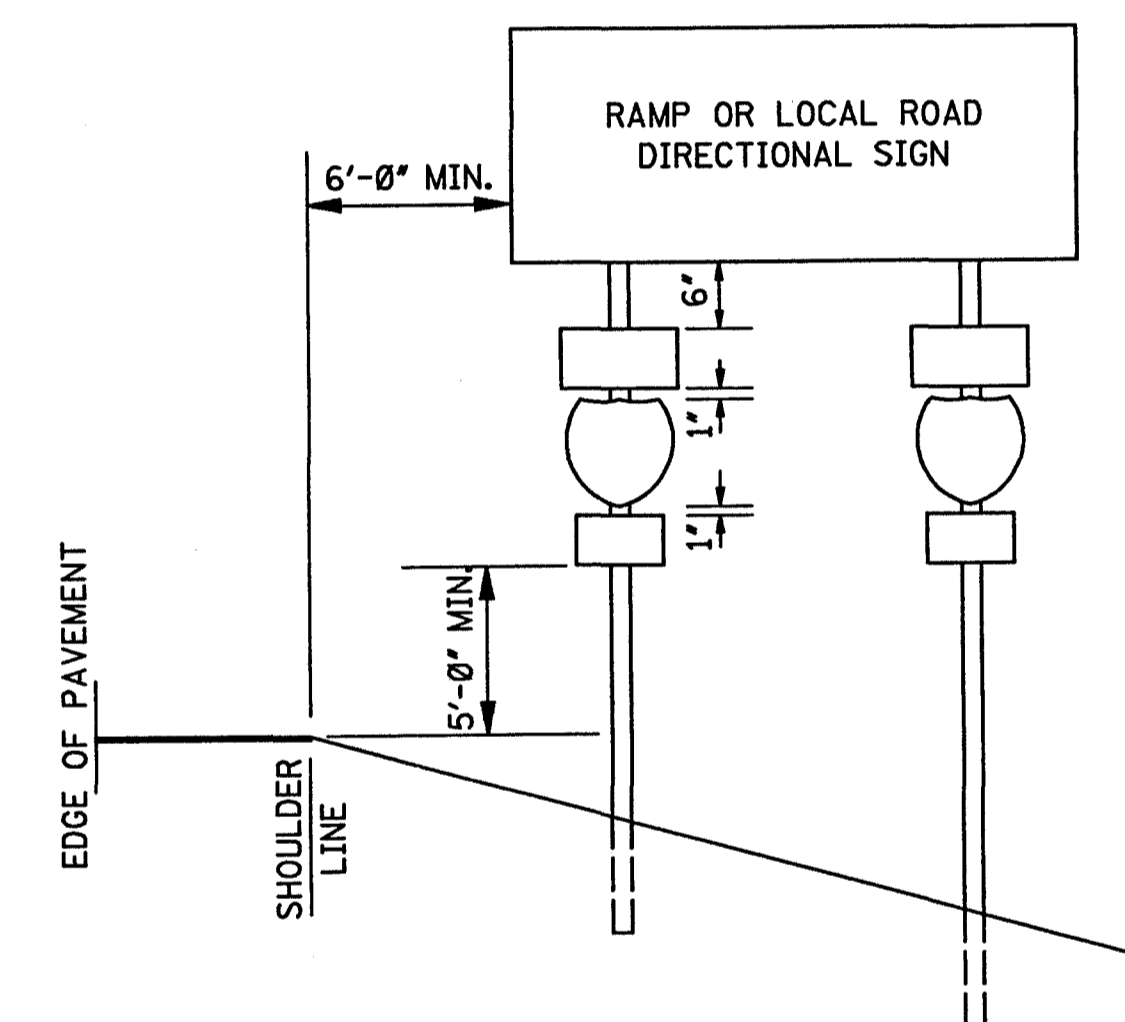
TYPICAL INSTALLATION IN ISLANDS OFF OF (OR ADJACENT TO) INTERSTATE MAIN FACILITY




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

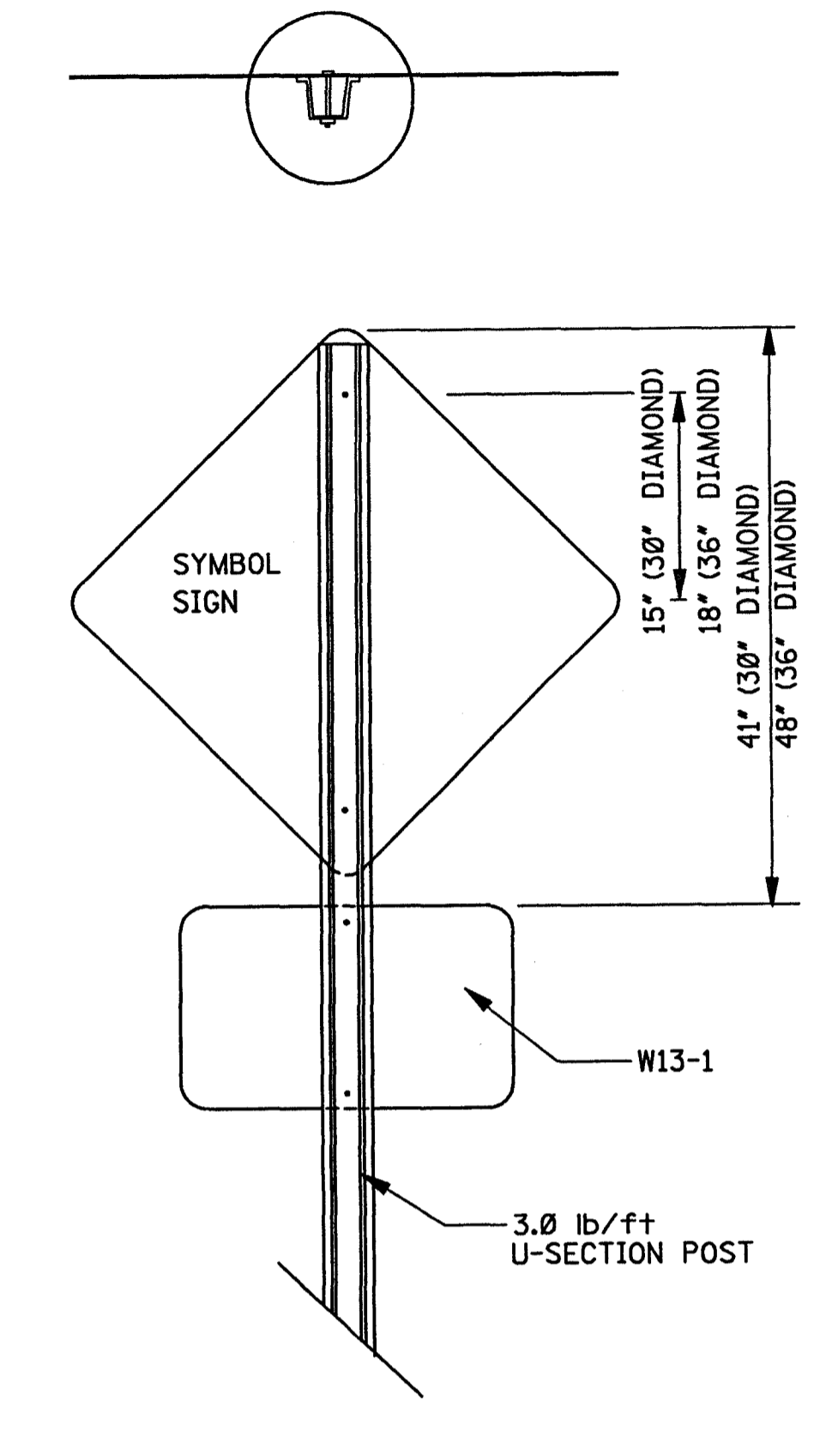
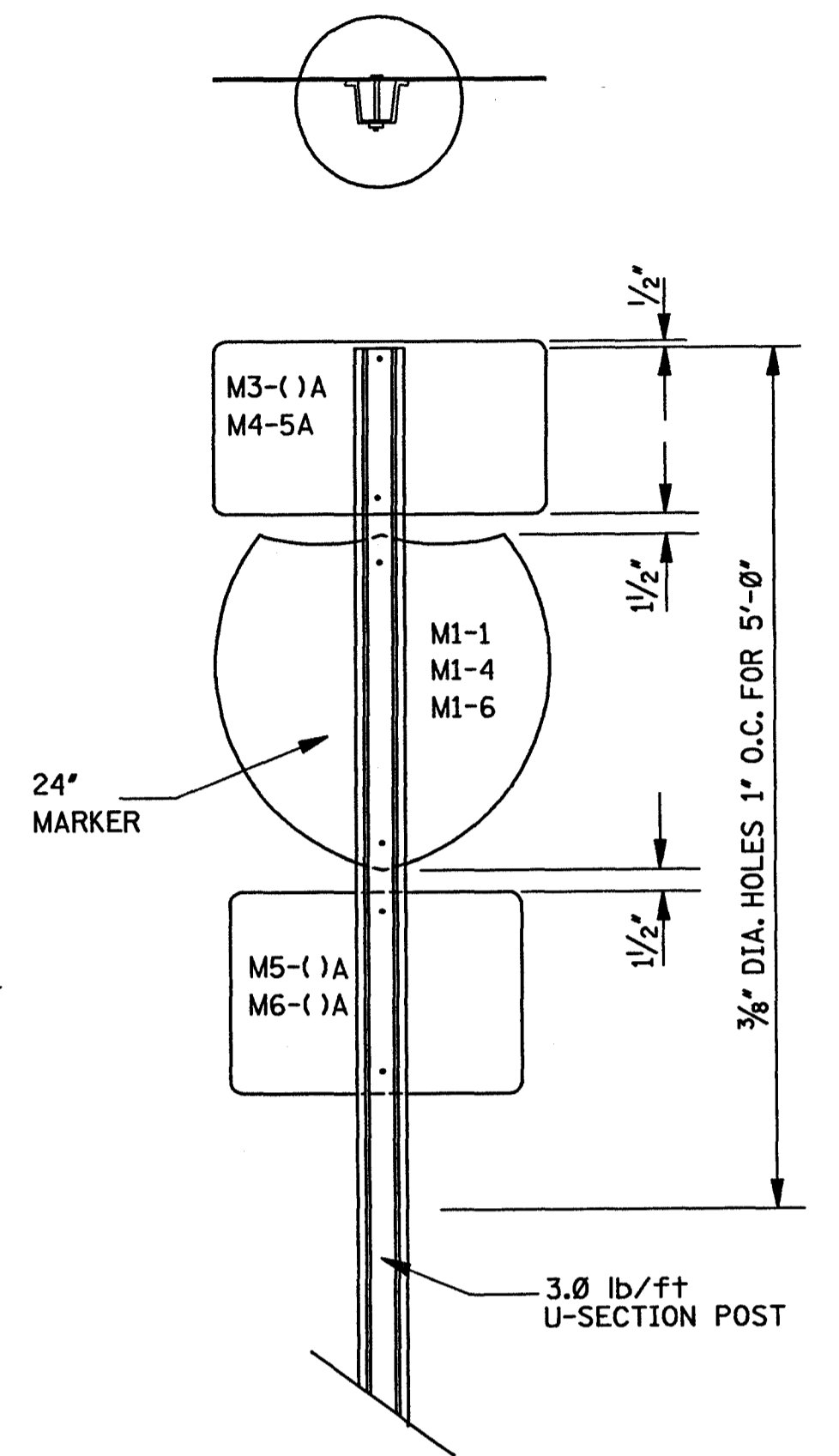
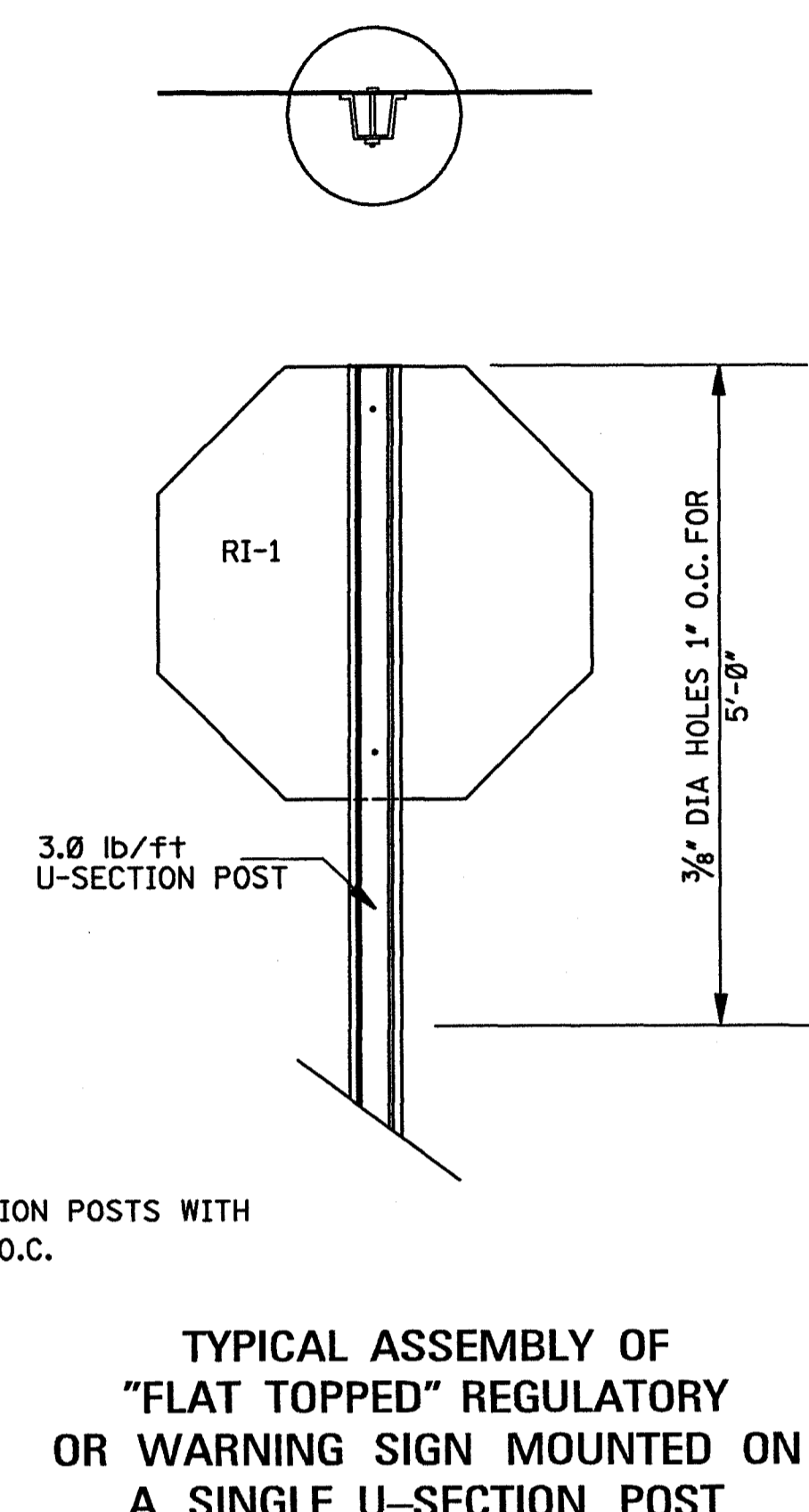
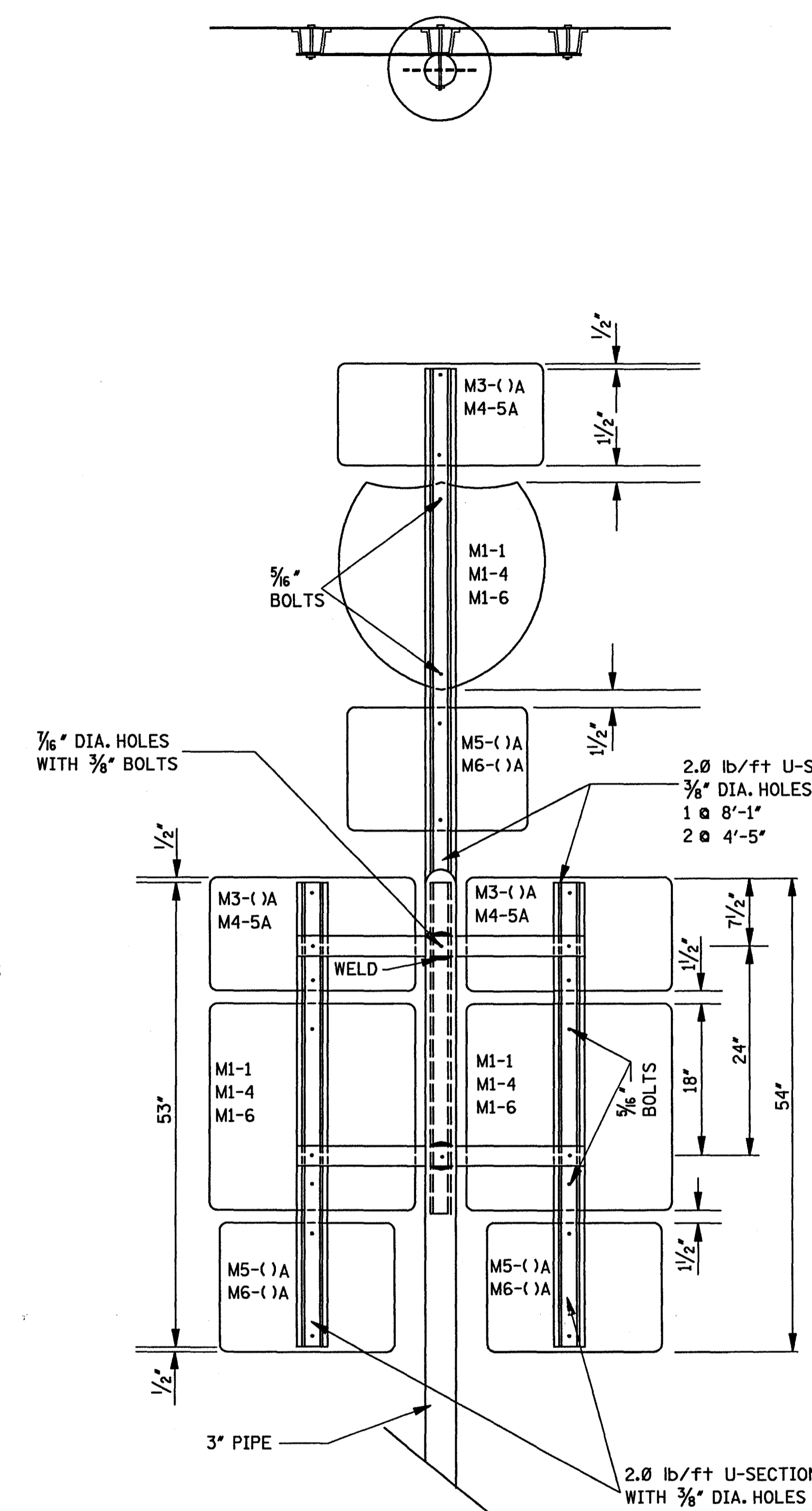
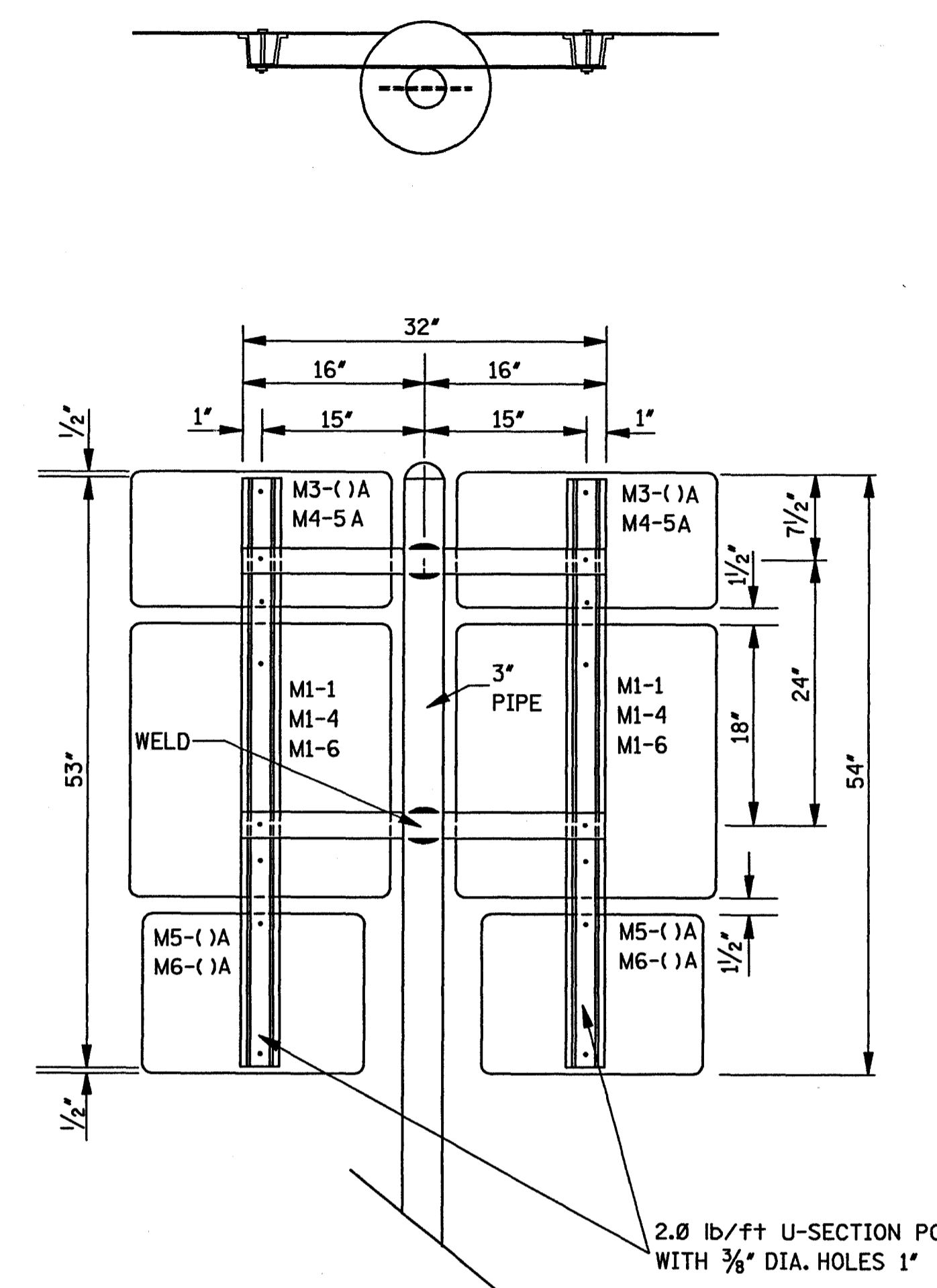


TYPICAL INSTALLATION ALONG THE INTERSTATE MAIN FACILITY AND ALONG RAMPS, FRONTAGE ROADS AND HIGHWAYS

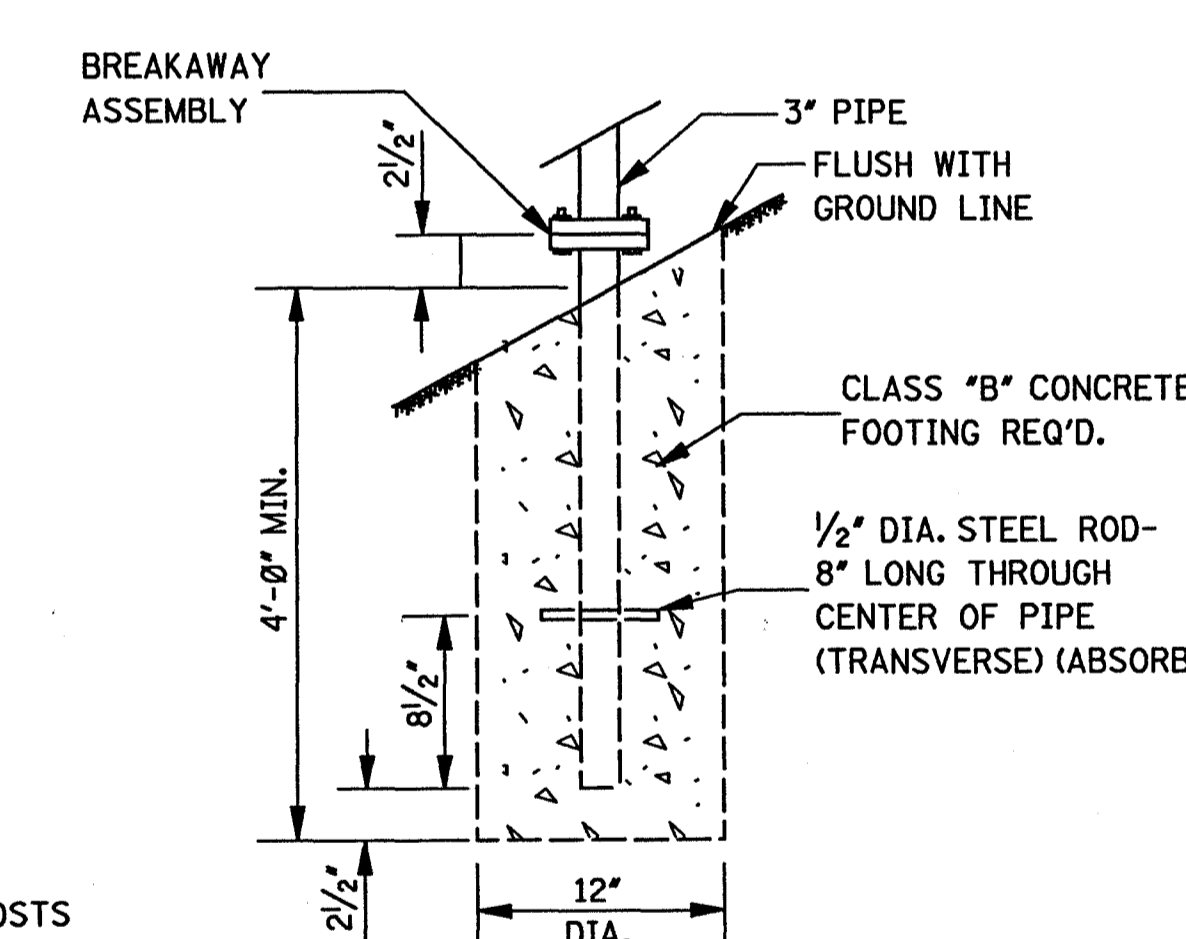


* NOTE: THE 2'-0" MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-SECTION POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET A MINIMUM OF 4'-0". RAMP DESTINATION SIGNS WILL BE OFFSET 4'-0" FROM SHOULDERS.

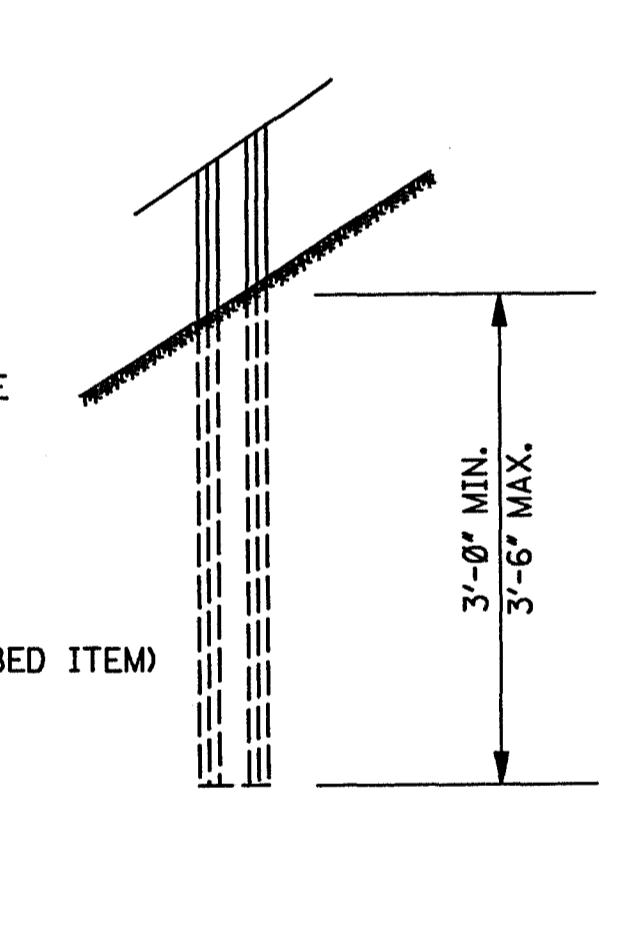
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION	
WORKING NUMBER SN-4	
SHEET NUMBER 225	
DATE	ISSUE DATE: OCTOBER 1, 1998



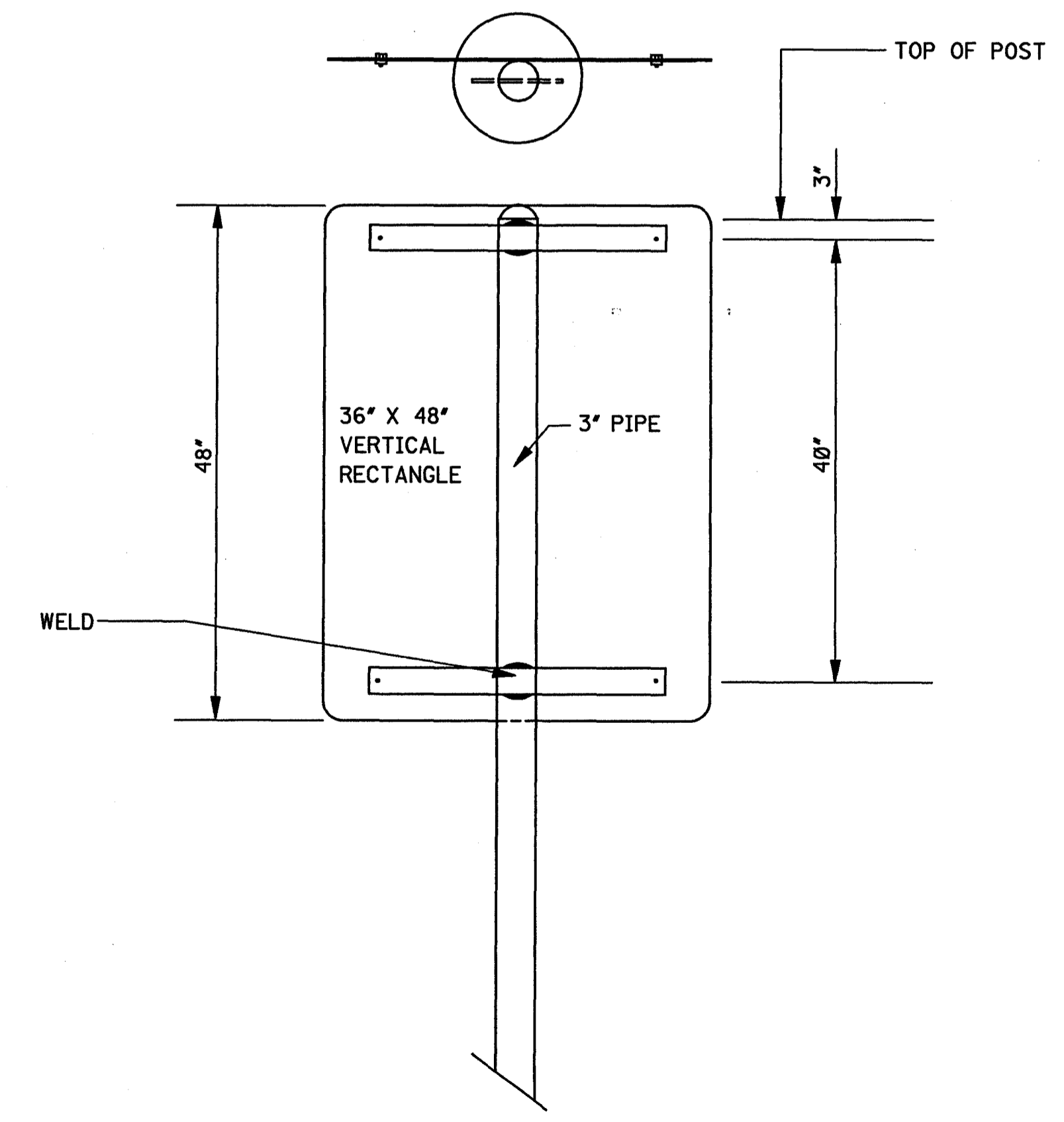
TYPICAL ASSEMBLY OF "FLAT TOPPED" REGULATORY OR WARNING SIGN MOUNTED ON A SINGLE U-SECTION POST



FOOTING DETAIL FOR 3" PIPE



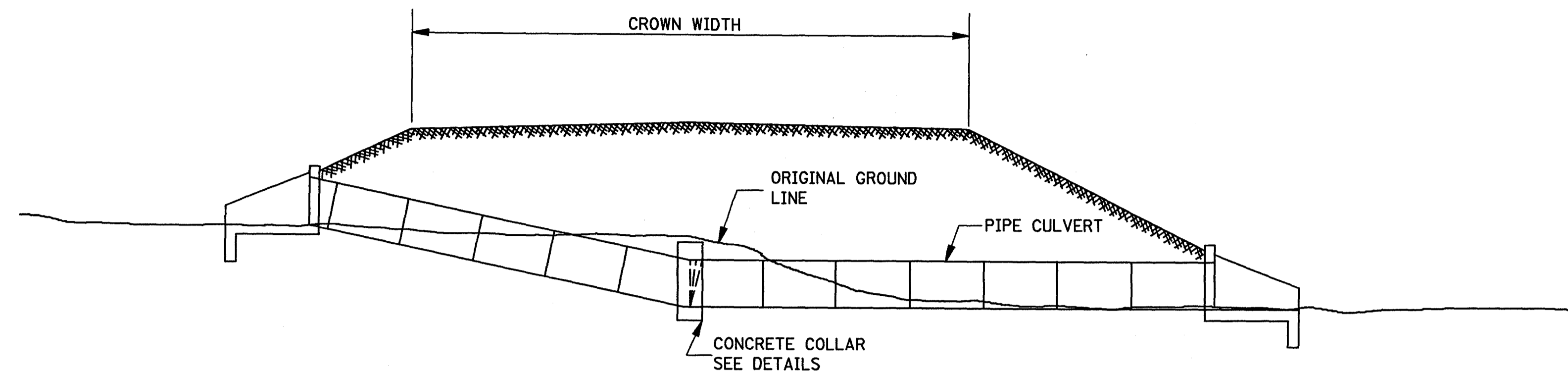
FOOTING DETAIL FOR U-SECTION POSTS



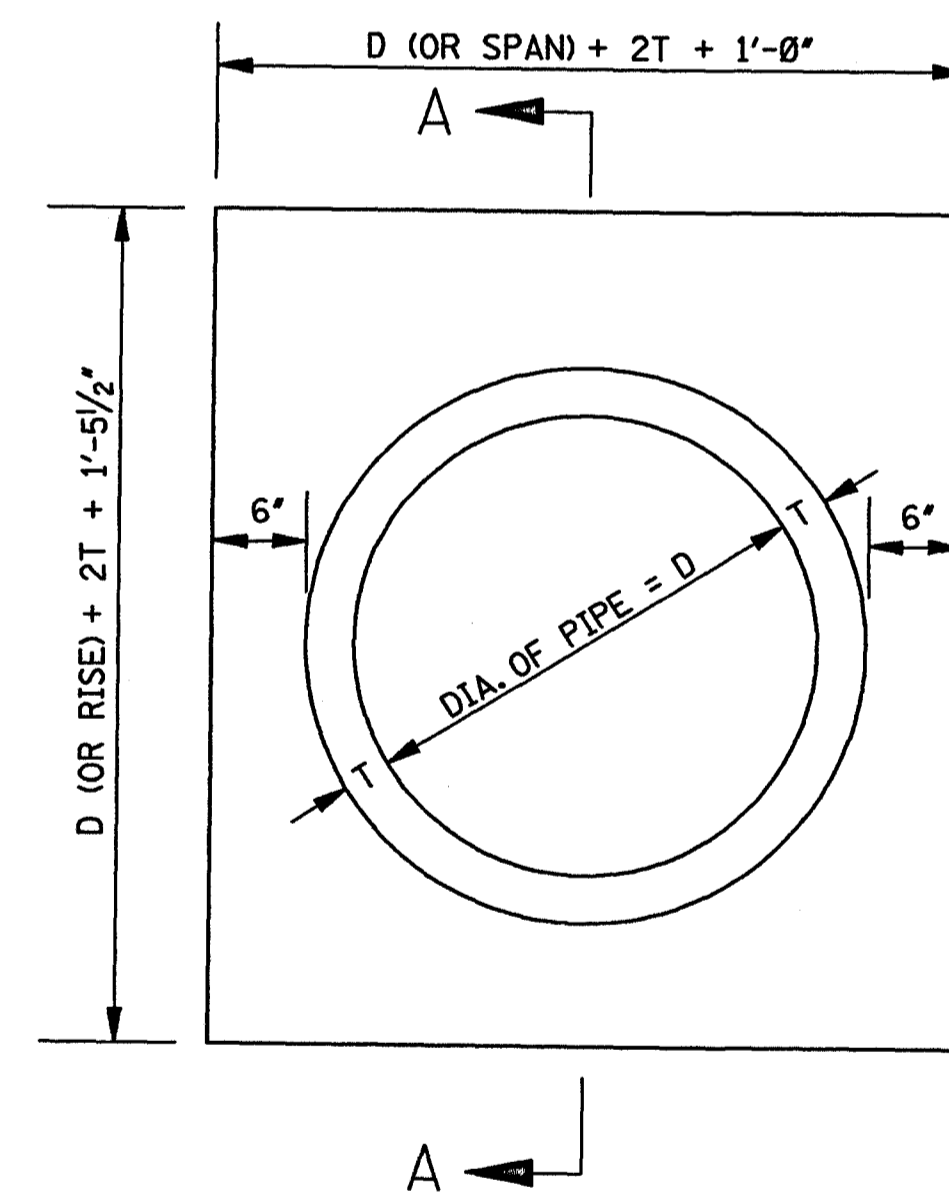
GENERAL NOTES:

1. UNLESS OTHERWISE SPECIFIED, HORIZONTAL BRACES ARE 1/8" X 2 1/2" X VARIABLE LENGTH FLAT STEEL BARS. BARS ARE WELDED TO PIPE AS SHOWN. WHEN FABRICATION IS COMPLETE, POST SHALL BE GALVANIZED AS PER SECTION 630 OF THE STANDARD SPECIFICATION.
2. HOLES IN FLAT BARS ARE 3/8" DIAMETER.
3. SIGNS ARE FASTENED TO FLAT BARS AND U-SECTION POST WITH 3/8" BOLTS, WITH FLAT WASHER AND LOCK-NUTS.
4. GROUND PLATE NOT REQUIRED ON U-SECTION POST.

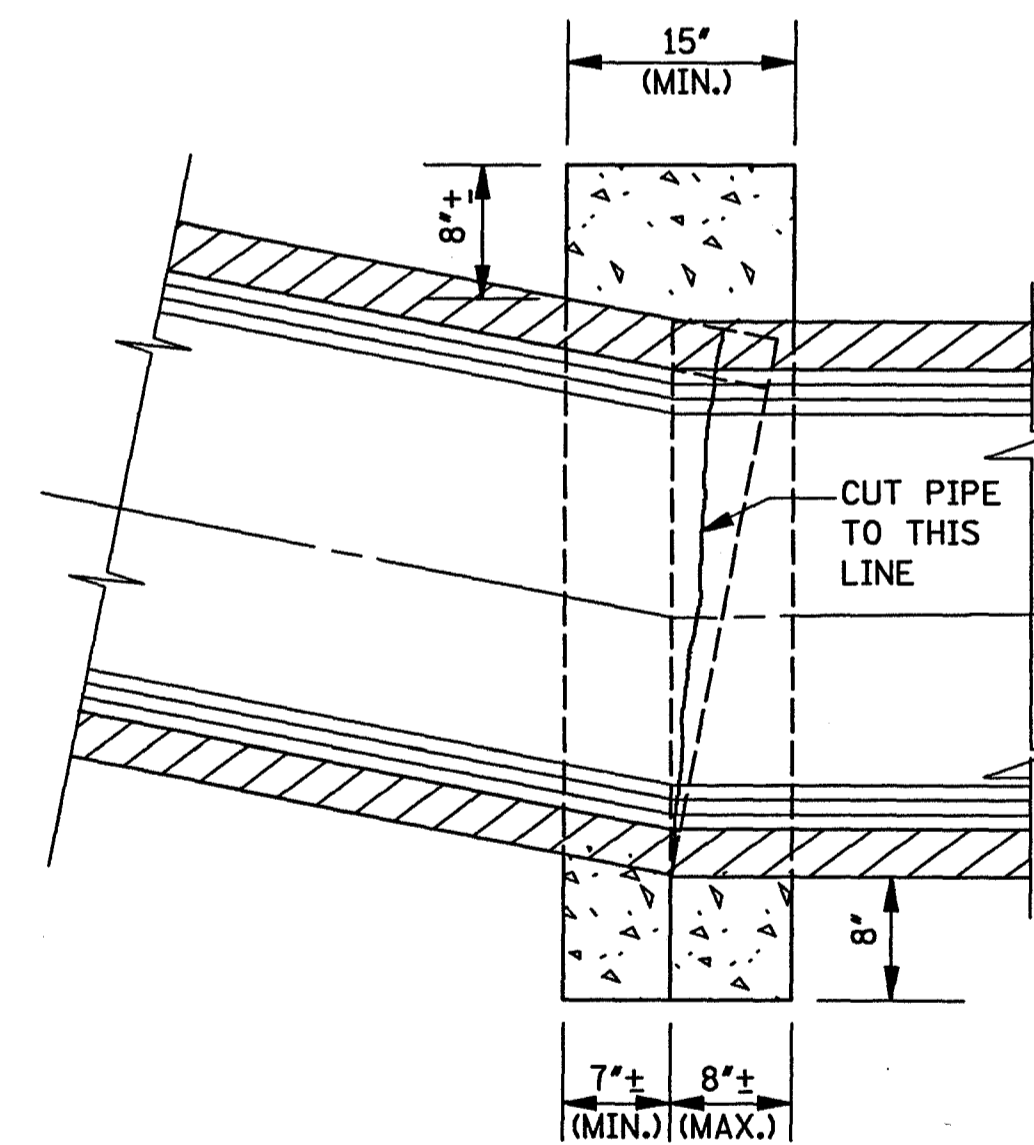
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISION		ROADWAY DESIGN DIVISION	
DATE		STANDARD PLAN	
		STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION	
		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
		WORKING NUMBER SN-4A	
		SHEET NUMBER 226	
		ISSUE DATE: OCTOBER 1, 1998	



TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR
NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A-A


GENERAL NOTE:

1. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS			
CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd ³)	SIZE OF PIPE	CLASS "B" CONCRETE (yd ³)
12"	0.240		
15"	0.260	18 x 11	0.280
18"	0.320	22 x 13	0.310
24"	0.410	29 x 18	0.410
30"	0.510	36 x 23	0.490
36"	0.620	44 x 27	0.600
42"	0.730	51 x 31	0.690
48"	0.850	58 x 36	0.820
54"	0.980	65 x 40	0.920
60"	1.110	73 x 45	1.070
66"	1.248	88 x 54	1.366
72"	1.393		

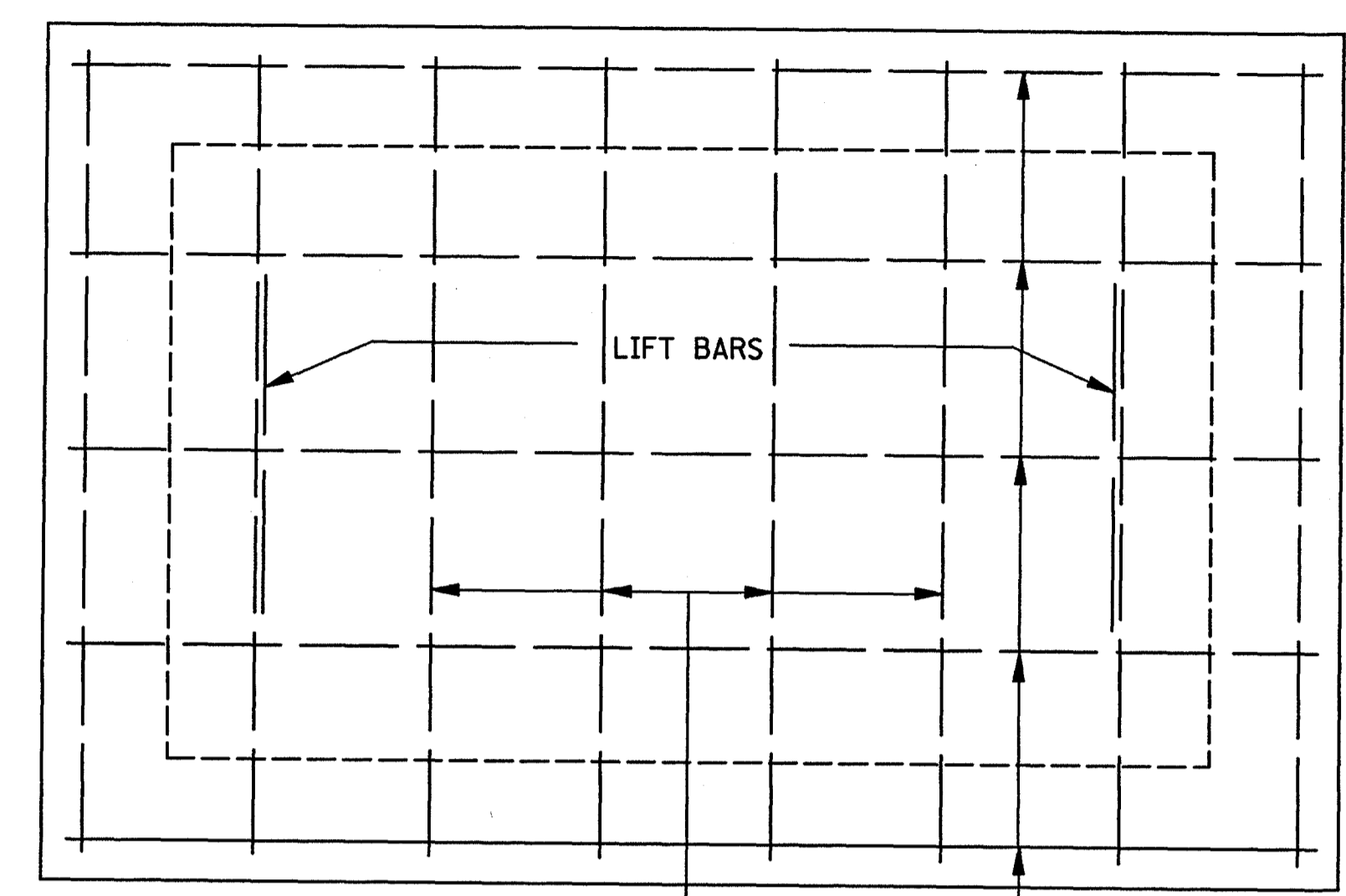
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
REVISION	
DATE	ISSUE DATE: OCTOBER 1, 1998

CONCRETE PIPE COLLAR

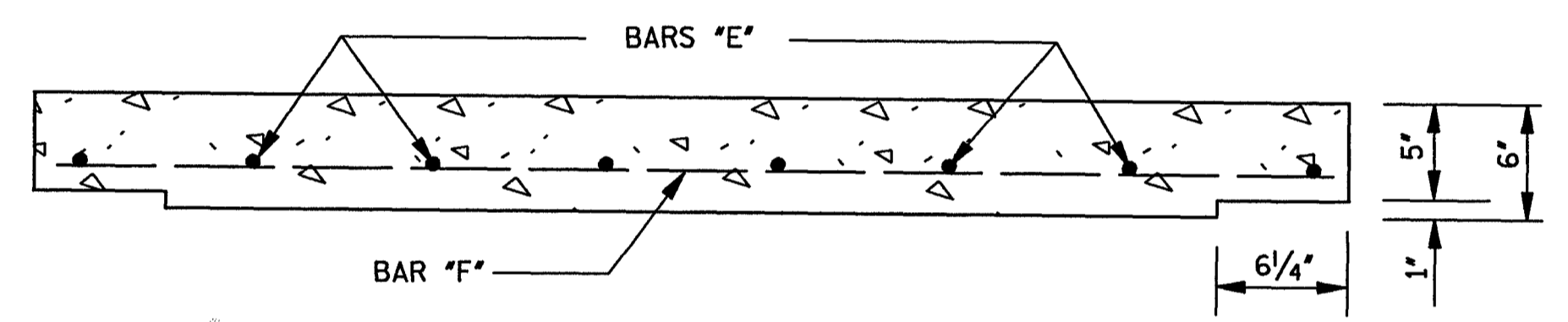


WORKING NUMBER
PC-1

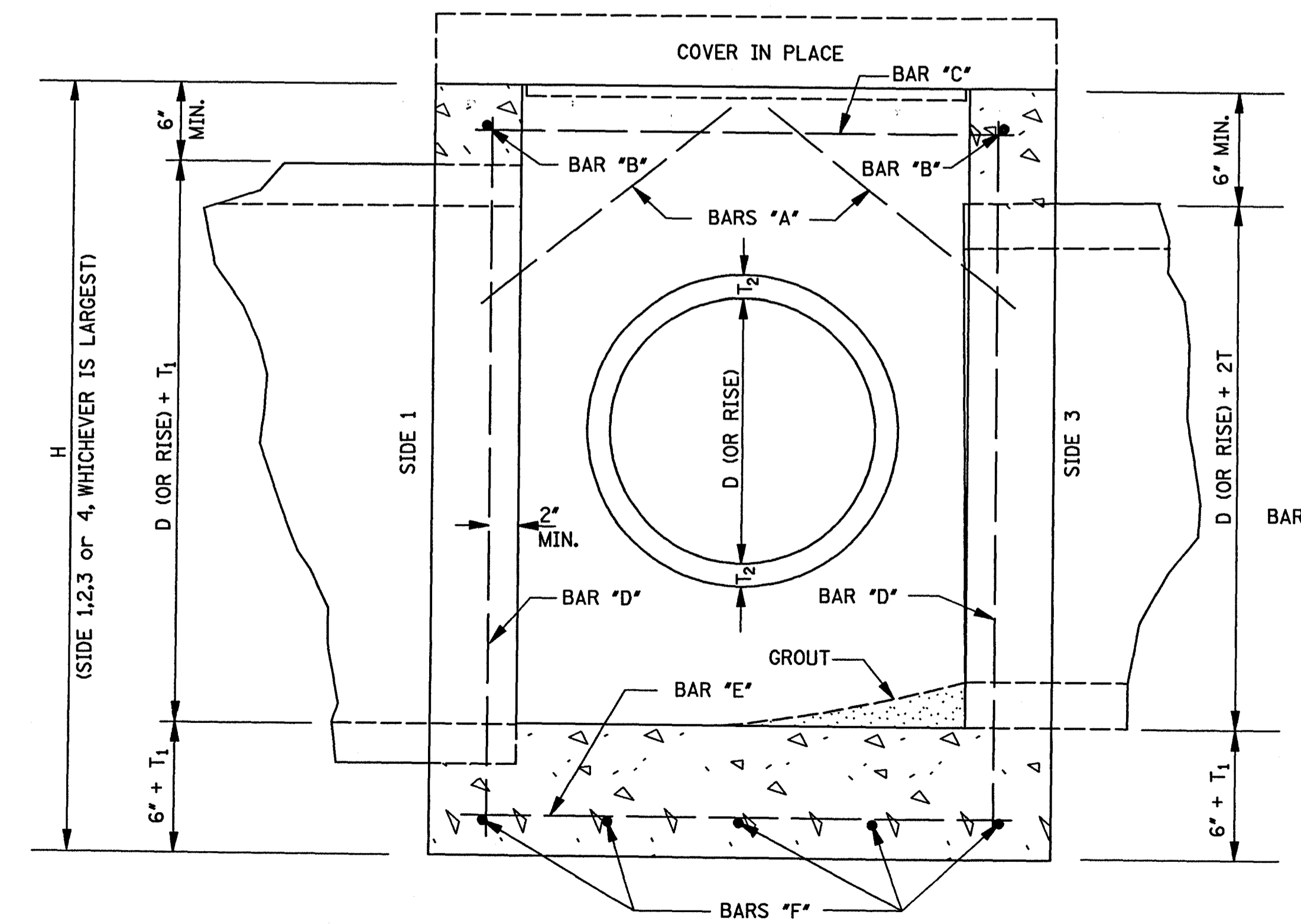
SHEET NUMBER
301



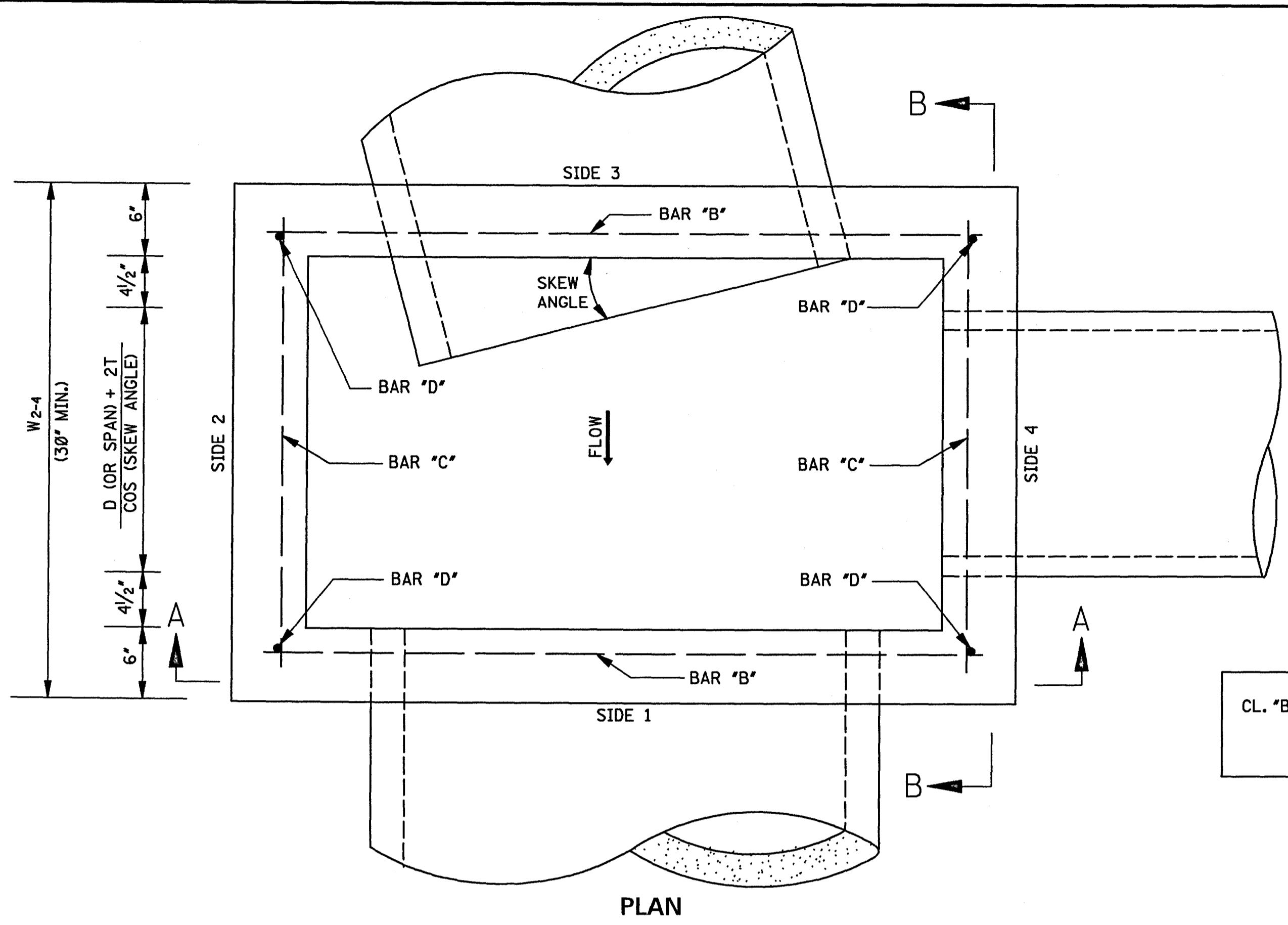
PLAN OF COVER



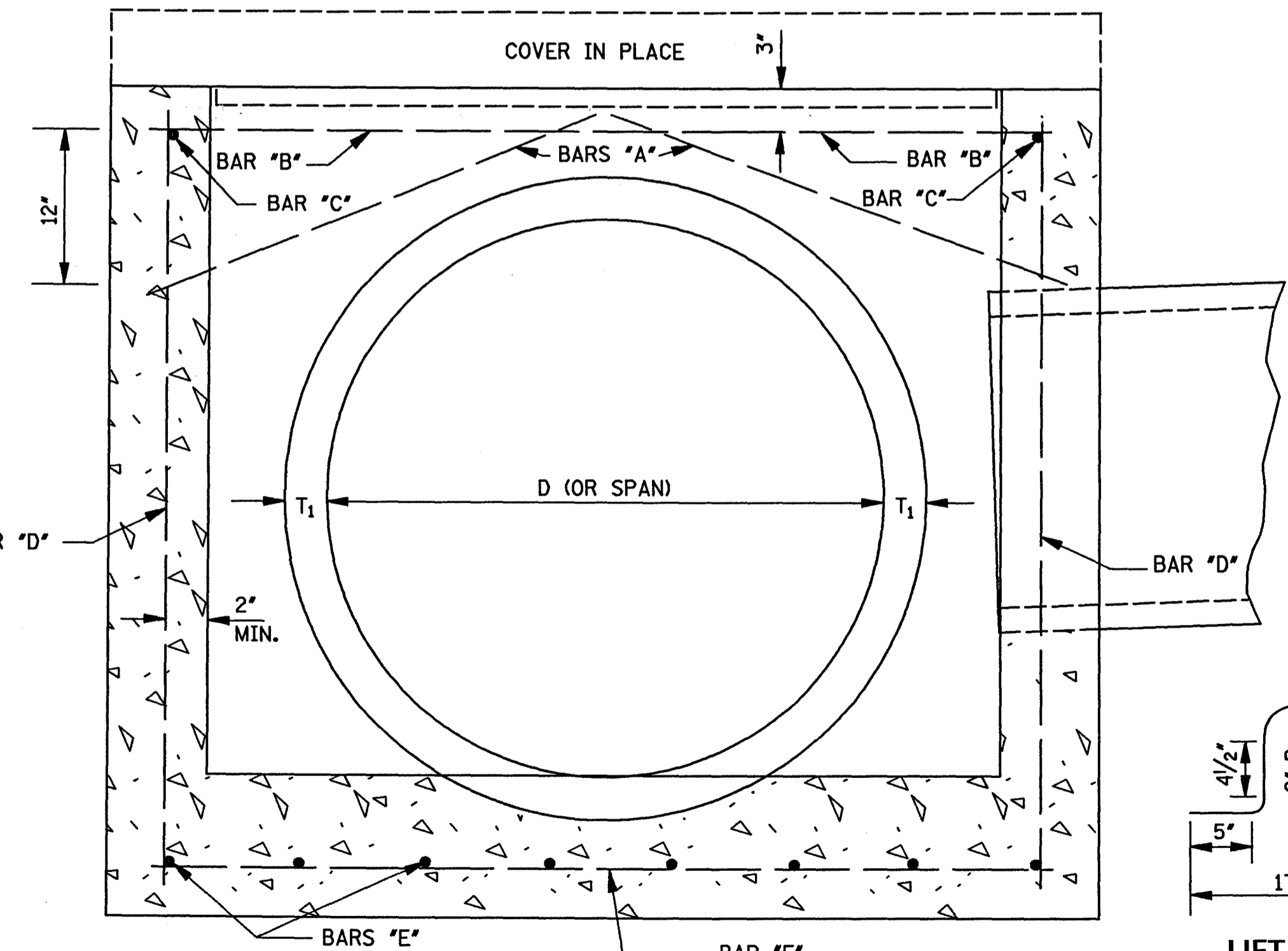
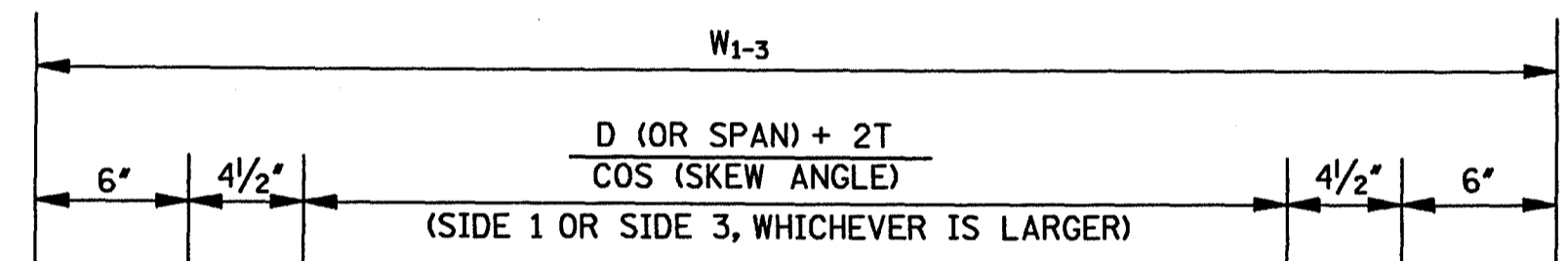
ELEVATION OF COVER



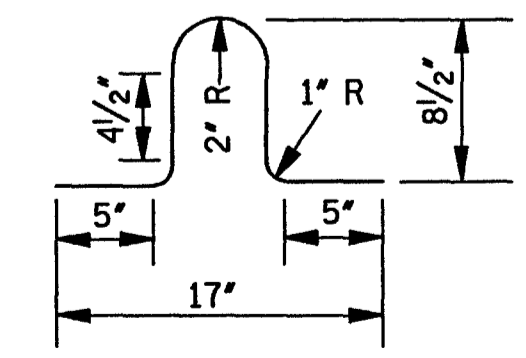
SECTION B-B



PLAN



SECTION A-A



LIFT BAR

NOTE: LIFT BAR TO BE FABRICATED FROM A #4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.

BAR	SIZE	NUMBER REQUIRED	LENGTH
A	#4	2 PER PIPE OPENING	$\sqrt{196 + \left(\frac{W^*}{2} + 2\right)^2}$
B	#4	2	$W_{1-3} - 6"$
C	#4	2	$W_{2-4} - 6"$
D	#4	4	$H - 6"$
E	#4	$2 \left[\left(\frac{W_{1-3}}{9} \right)^{**} + 1 \right]$	$W_{2-4} - 4"$
F	#4	$2 \left[\left(\frac{W_{2-4}}{9} \right)^{**} + 1 \right]$	$W_{1-3} - 4"$

NOTE: VARIABLES AND DESIGNATIONS ARE AS FOLLOWS:
D (OR SPAN) = PIPE DIAMETER (OR SPAN)
W₁₋₃ = WIDTH OF SIDE 1 & SIDE 3
W₂₋₄ = WIDTH OF SIDE 2 & SIDE 4
W* = W₁₋₃ OR W₂₋₄ (SIDE OF ENTERING PIPE)
** = ROUND TO NEAREST WHOLE NUMBER

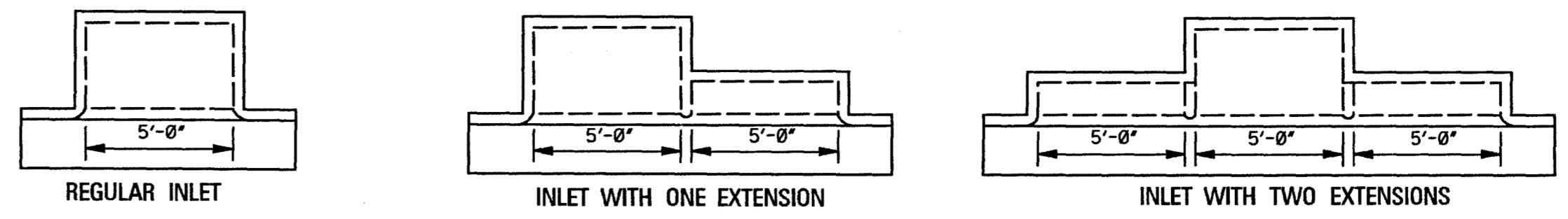
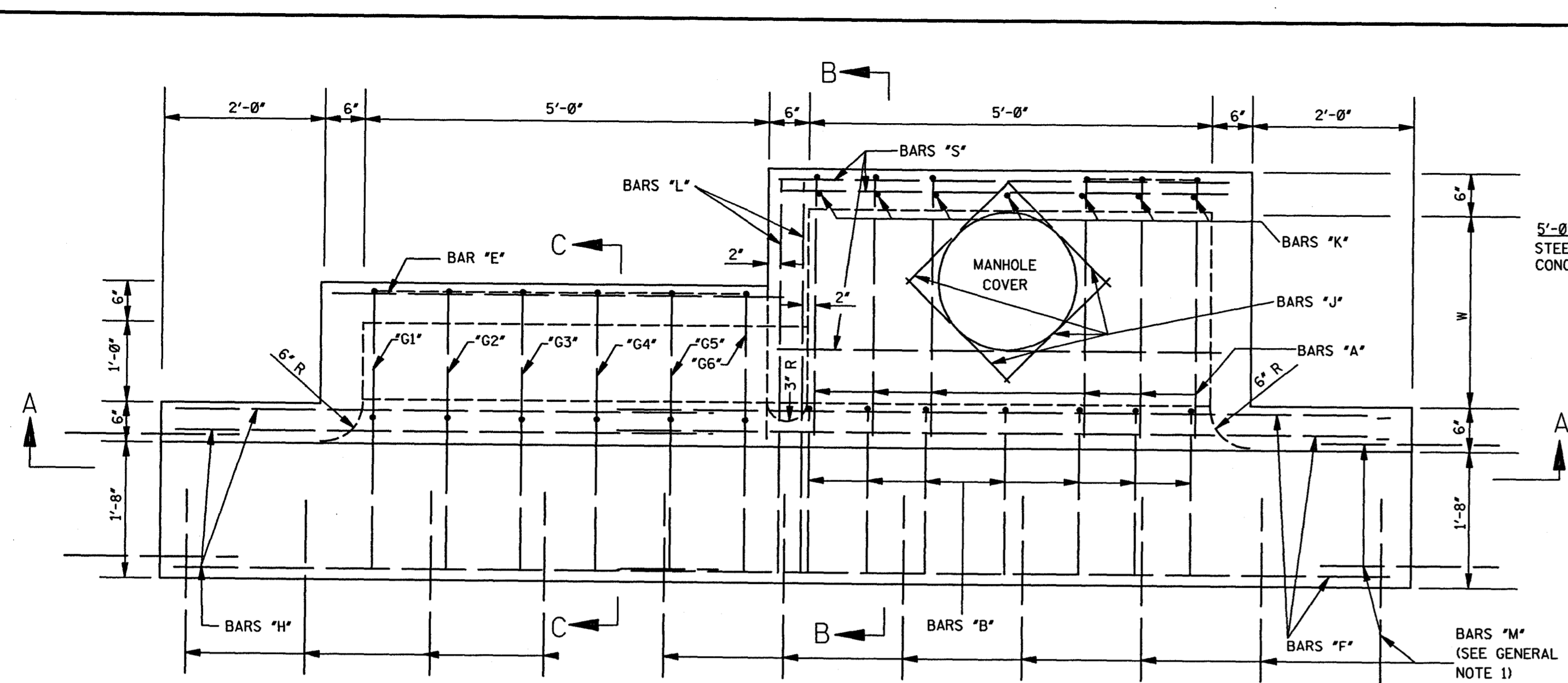
CL. #B CONC. (yd³) = [(Q1 + Q2) / 46,656] - Σ PIPE OPENING DEDUCTIONS
WHERE: Q1 = [5 * W₁₋₃ * W₂₋₄] + [1 * (W₁₋₃ - 12.5) * W₂₋₄ - 12.5 * W₁₋₃] + [(T₁ + 6) * W₁₋₃ * W₂₋₄]
Q2 = 12 * [H - (T₁ + 6)] * [(W₁₋₃ - 12) + W₂₋₄]

CIRCULAR PIPE			ARCH PIPE		
PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)	PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)
18"	2 1/2"	0.053	22" x 13"	2 1/2"	0.053
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"	0.489
66"	6 1/2"	0.630			
72"	7"	0.747			

GENERAL NOTES:

1. REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
2. QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS.
4. SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
5. 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.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		<p style="text-align: center;">JUNCTION BOX FOR PIPE CULVERTS</p> <p>WORKING NUMBER JB-1</p> <p>SHEET NUMBER 302</p>	
DATE			
ISSUE DATE:		OCTOBER 1, 1998	



5'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 121
CONC. = (WY + 5.5W + 6Y + 14.611)/27

10'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 231
CONC. = (WY + 5.5W + 6Y + 38.641)/27

15'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 341
CONC. = (WY + 5.5W + 6Y + 62.671)/27

- NOTES:
1. W AND H ARE EXPRESSED IN DECIMAL FEET.
2. W' = W ROUNDED TO NEAREST WHOLE FOOT.
3. Y = (H-0.5).
4. H' = (H - 2.08) ROUNDED TO NEAREST WHOLE FOOT.
5. NO DEDUCTIONS ARE MADE FOR PIPE OPENINGS IN FORMULAS.

ADD. CONCRETE PER FOOT OF H		ADD. CONCRETE PER FOOT OF W	
W	yd 3/ft	H	yd 3/ft
2'-6"	0.315	3'-6"	0.315
3'-0"	0.333	4'-0"	0.333
3'-6"	0.352	4'-6"	0.352
4'-0"	0.371	5'-0"	0.370
4'-6"	0.389	5'-6"	0.389
5'-0"	0.408	6'-0"	0.408
5'-6"	0.426	6'-6"	0.426
6'-0"	0.445	7'-0"	0.445
6'-6"	0.463	7'-6"	0.463
7'-0"	0.481	8'-0"	0.482
		8'-6"	0.500

QUANTITIES FOR ONE EXTENSION					
BAR	SIZE	LENGTH	SPACING	NUMBER	WEIGHT
"E"	#4	5'-8"	AS SHOWN	3	11
"G"	#4	SEE SCHEDULE	0'-11"	6	34
"H"	#6	6'-9"	AS SHOWN	5	51
"L"	#6	4'-9"	AS SHOWN	2	14

TOTAL STEEL FOR ONE EXTENSION = 110 lbs
TOTAL CONCRETE FOR ONE EXTENSION = 0.89 yd³

*NOTE: WHERE EXTENSION IS USED WITH CONCRETE PAVEMENT, ADD 27 LBS OF STEEL FOR BARS "M".

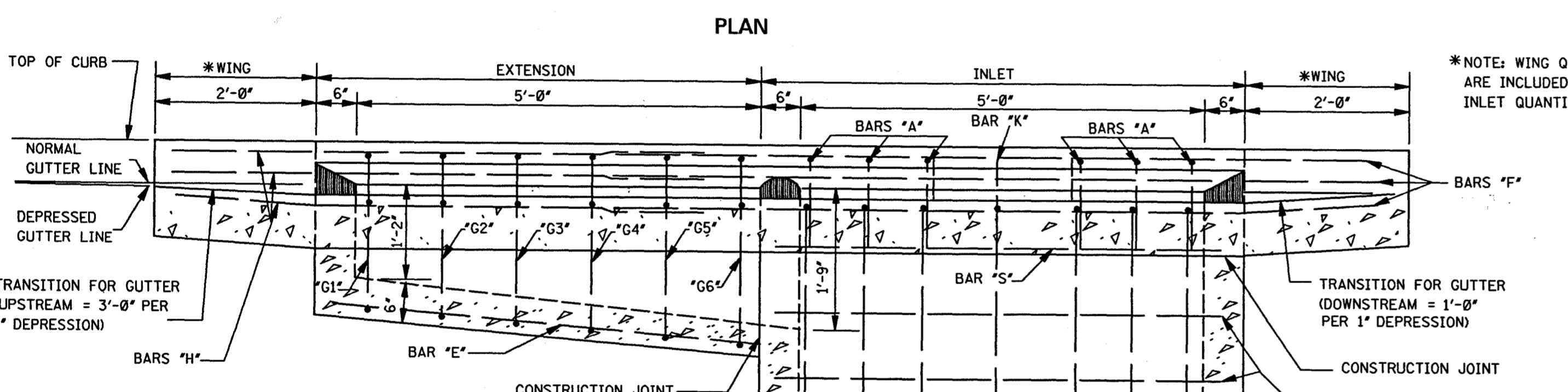
BILL OF REINFORCING STEEL FOR 1-5'-0" INLET																				
H	BAR "A" L = 4'-2" #4 @ 9"	BAR "C" L = 5'-8" #4 @ 9"	BAR "S" L = 5'-8" #4 @ 12"	BAR "D" L = 5'-8" #4 @ 12"	BAR "F" L = 9'-8" #6	BAR "J" L = 2'-3" #4	BAR "B" #4 @ 9"	BAR "K" #4 @ 9"	* TOTAL STEEL	TOTAL CONC.	LGTH.									
											NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs		
3'-6"	6	17	7	27	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	190	1.99
4'-0"	6	17	7	27	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	202	2.15
4'-6"	6	17	7	27	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	207	2.31
5'-0"	6	17	7	27	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	219	2.47
5'-6"	6	17	7	27	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	224	2.62
6'-0"	6	17	7	27	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	238	2.78
6'-6"	6	17	7	27	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	240	2.94
7'-0"	6	17	7	27	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	253	3.10
7'-6"	6	17	7	27	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	257	3.25

BILL OF REINFORCING STEEL FOR 1-5'-0" INLET																				
H	BAR "A" L = 4'-2" #4 @ 9"	BAR "C" L = 6'-2" #4 @ 9"	BAR "S" L = 5'-8" #4 @ 12"	BAR "D" L = 5'-8" #4 @ 12"	BAR "F" L = 9'-8" #6	BAR "J" L = 2'-3" #4	BAR "B" #4 @ 9"	BAR "K" #4 @ 9"	* TOTAL STEEL	TOTAL CONC.	LGTH.									
											NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs		
3'-6"	6	19	7	29	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	194	2.15
4'-0"	6	19	7	29	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	206	2.32
4'-6"	6	19	7	29	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	211	2.49
5'-0"	6	19	7	29	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	223	2.65
5'-6"	6	19	7	29	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	228	2.82
6'-0"	6	19	7	29	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	240	2.99
6'-6"	6	19	7	29	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	245	3.15
7'-0"	6	19	7	29	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	257	3.32
7'-6"	6	19	7	29	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	262	3.49

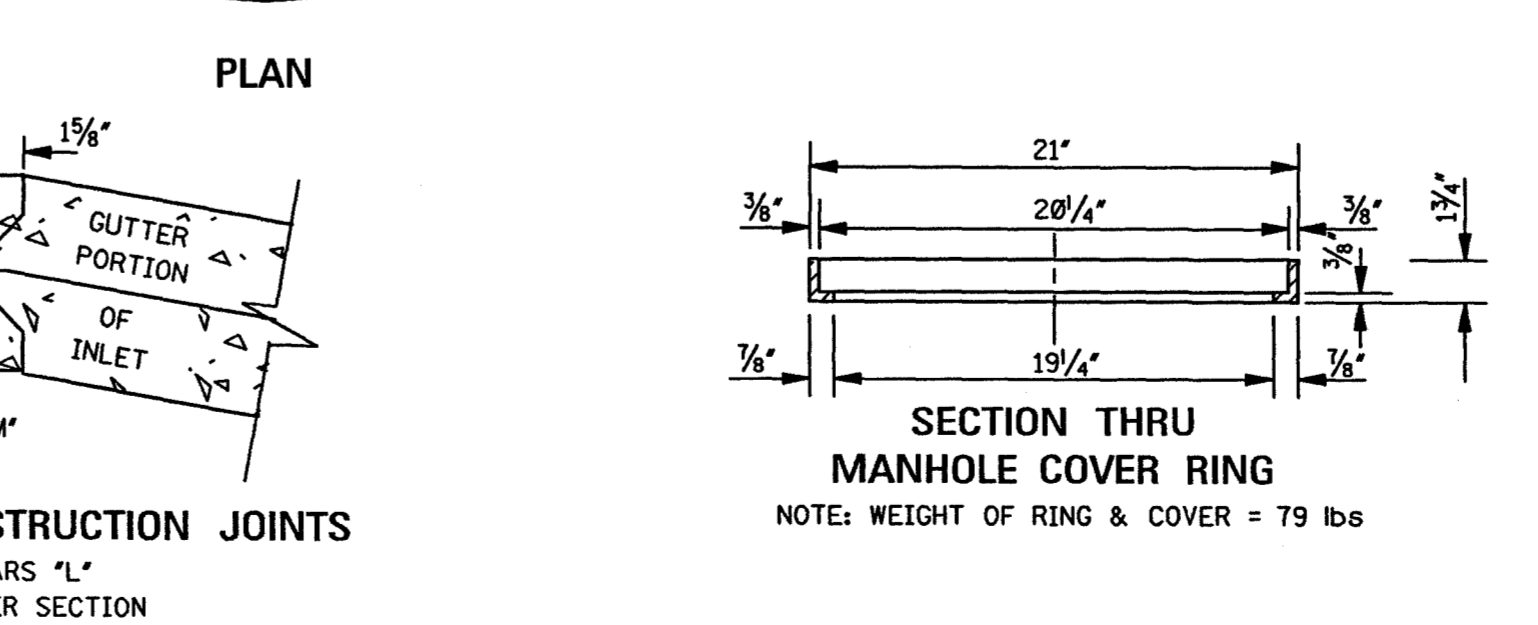
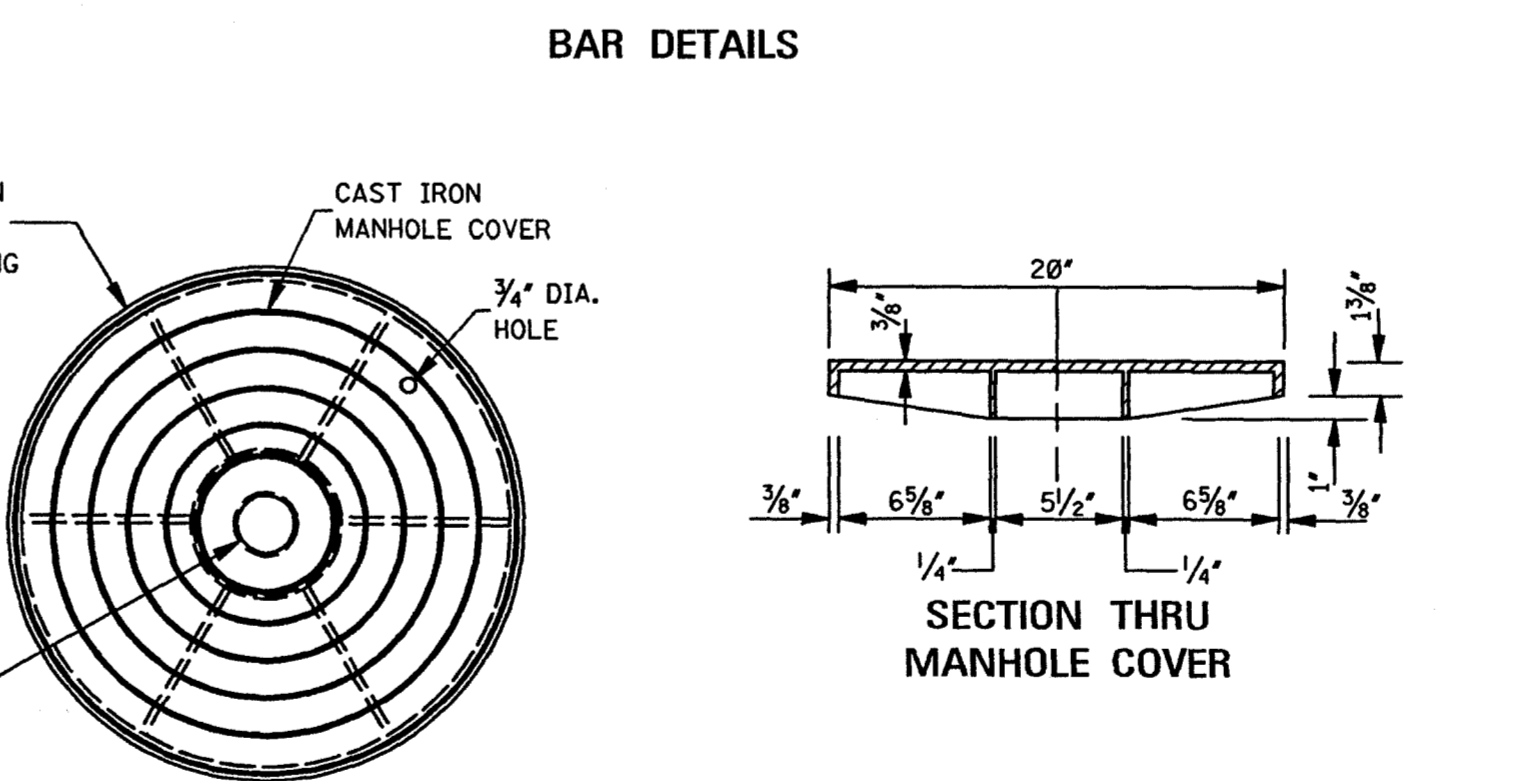
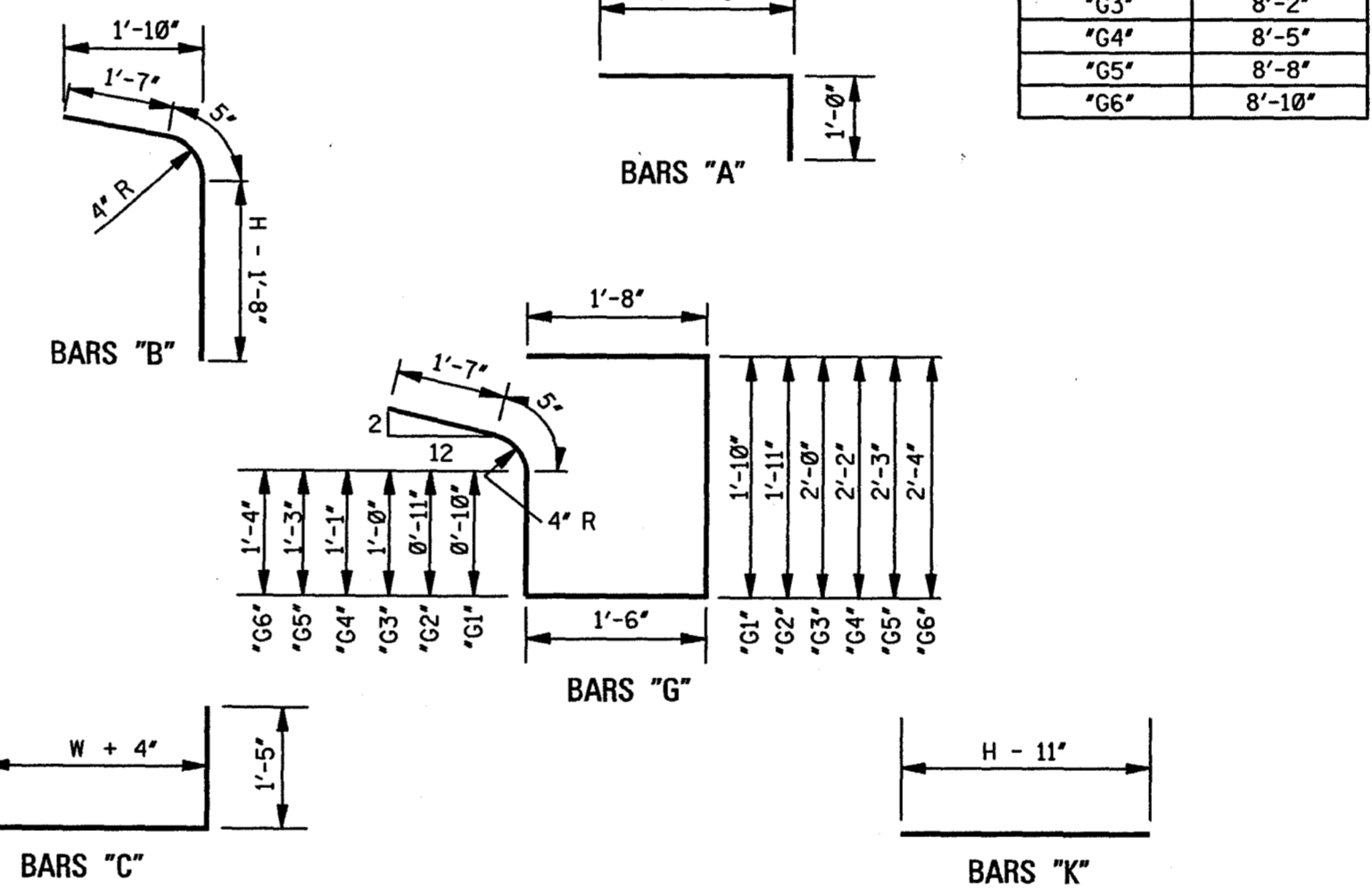
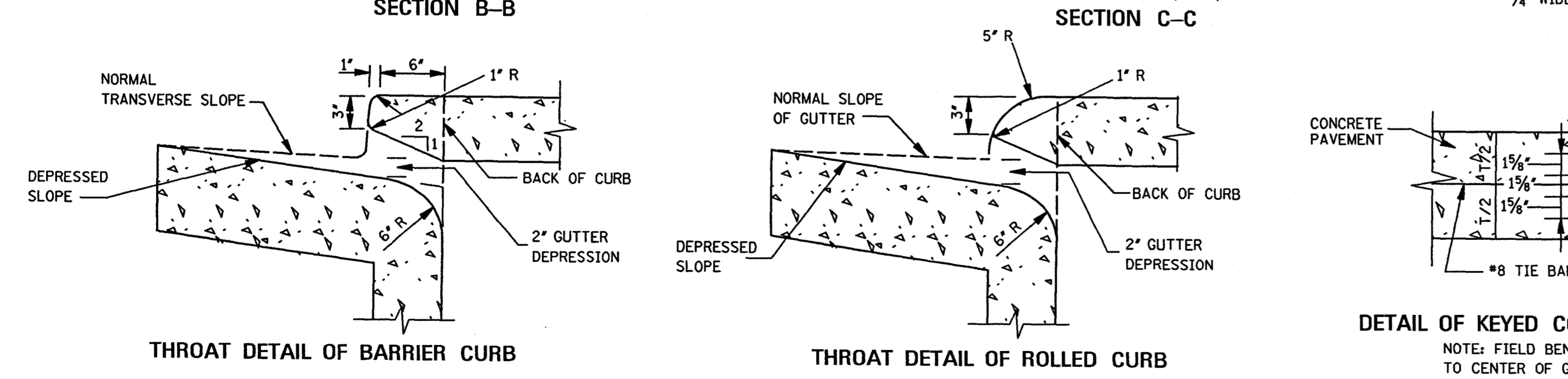
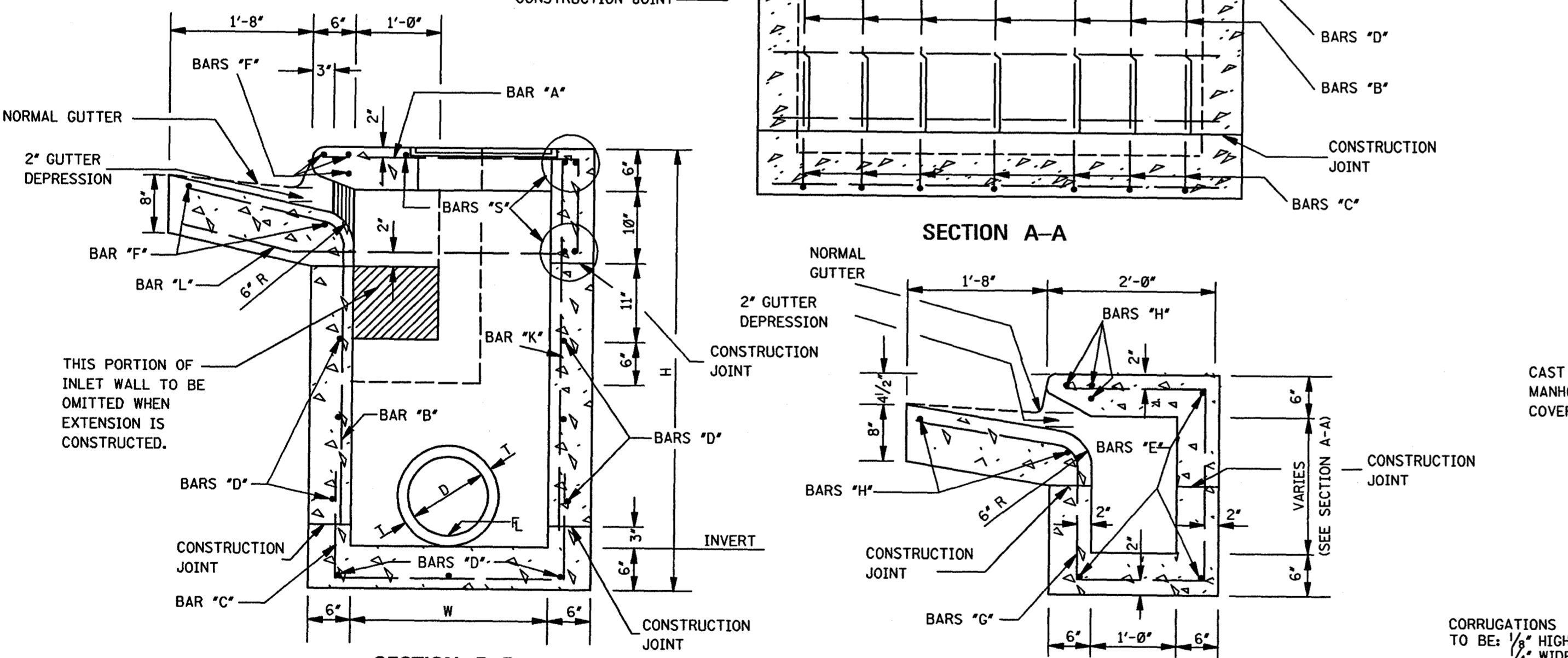
BILL OF REINFORCING STEEL FOR 1-5'-0" INLET																				
H	BAR "A" L = 5'-2" #4 @ 9"	BAR "C" L = 6'-8" #4 @ 9"	BAR "S" L = 5'-8" #4 @ 12"	BAR "D" L = 5'-8" #4 @ 12"	BAR "F" L = 9'-8" #6	BAR "J" L = 2'-3" #4	BAR "B" #4 @ 9"	BAR "K" #4 @ 9"	* TOTAL STEEL	TOTAL CONC.	LGTH.									
											NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs		
3'-6"	6	21	7	31	5	19	6	23	5	73	4	6	3'-10"	7	18	2'-7"	7	12	202	2.31
4'-0"	6	21	7	31	5	19	8	30	5	73	4	6	4'-4"	7	20	3'-1"	7	14	214	2.49
4'-6"	6	21	7	31	5	19	8	30	5	73	4	6	4'-10"	7	23	3'-7"	7	17	219	2.66
5'-0"	6	21	7	31	5	19	10	38	5	73	4	6	5'-4"	7	25	4'-1"	7	19	231	2.84
5'-6"	6	21	7	31	5	19	10	38	5	73	4	6	5'-10"	7	27	4'-7"	7	21	236	3.01
6'-0"	6	21	7	31	5	19	12	45	5	73	4	6	6'-4"	7	30	5'-1"	7	24	248	3.19
6'-6"	6	21	7	31	5	19	12	45	5	73	4	6	6'-10"	7	32	5'-7"	7	26	253	3.37
7'-0"	6	21	7	31	5	19	14	53	5	73	4	6	7'-4"	7	34	6'-1"	7	28	265	3.54
7'-6"	6	21	7	31	5	19	14	53	5	73	4	6	7'-10"	7	37	6'-7"	7	31	270	3.72

*NOTE: WHERE INLET IS USED WITH CONCRETE PAVEMENT, ADD 73 LBS OF STEEL FOR BARS "M".

- GENERAL NOTES:
- WHERE INLET OR INLET WITH EXTENSIONS IS USED WITH CONCRETE PAVEMENT WITH INTERGRAL CURB, THE PAVEMENT IS TO BE BLOCKED OUT TO THE DIMENSIONS AS SHOWN FOR THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSIONS. THE PORTION BLOCKED OUT SHALL BE PLACED INTEGRAL WITH THE TOP OF THE INLET OR INLET WITH EXTENSIONS. #8 DEFORMED BARS 30" LONG SHALL BE PLACED ON 18" CENTERS AT THE CENTER OF THE PAVEMENT. THESE BARS SHALL EXTEND INTO THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSIONS 15". THE CONSTRUCTION JOINT BETWEEN THE CONCRETE PAVEMENT AND THE INLET OR INLET WITH EXTENSIONS SHALL BE A KEYED JOINT AS SHOWN. A SMOOTH CONSTRUCTION JOINT WILL NOT BE PERMITTED. QUANTITIES FOR BLOCKED OUT AREA OF PAVEMENT SHALL BE INCLUDED IN QUANTITIES FOR INLET OR INLET WITH EXTENSIONS.
 - THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL APPLY TO ALL ITEMS ON THIS SHEET.
 - THE QUANTITIES SHOWN, MINUS VOLUMETRIC DISPLACEMENT OF CONCRETE BY PIPE CULVERTS THROUGH INLET WALLS, WILL BE USED AS THE BASIS OF FINAL PAYMENT UNLESS THIS PLAN IS MODIFIED.
 - FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLE ARE INCREMENTS OF 6". BUT ANY DEPTHS OTHER THAN THESE SHOWN MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS, FALLING WITHIN THE LIMITS OF THE TABLE, MAY BE FOUND BY INTERPOLATION.
 - FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER. NO DEDUCTIONS ARE TO BE MADE IN STEEL QUANTITIES.



*NOTE: WING QUANTITIES ARE INCLUDED IN INLET QUANTITIES.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**STORM SEWER STRUCTURE
TYPE SS-2**

WORKING NUMBER
SS-2

SHEET NUMBER
322

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