Detail <u>No.</u>	<u>Date</u>	<u>Title</u>
1.1.0	6/98	Underdrain
1.2.0	6/98	Combination Drain
1.3.0	6/98	Concrete Connecting Collar
2.1.0	6/98	Concrete Headwalls for Pipe Culverts
2.2.0A	6/98	Standard Headwalls for Multiple 3'-6" to 7'-0" Pipe Culverts (Sheet 1 of 2)
2.2.0B	6/98	Standard Headwalls for Multiple 3'-6" to 7'-0" Pipe Culverts (Sheet 2 of 2)
2.3.0	6/98	Precast Concrete Flared End Section
3.1.0		No Standard Assigned
3.2.0	6/98	Brick/Solid Block 4'-0" Round Manhole
3.2.1	6/98	Brick/Solid Block 5'-0" or 6'-0" Round Manhole
3.2.2	6/98	Solid Block Shallow 4'-0" or 5'-0" Round Manhole
3.3.0	6/98	Brick/Solid Block Type "D" Square Catch Basin
3.3.1	6/98	Brick/Solid Block Driveway Basin and Gutter Inlet
3.3.2	6/98	Brick/Solid Block Type "F" Square Catch Basin
3.3.3	6/98	Solid Block Flush Square Catch Basin
3.3.4	6/98	Brick/Solid Block Double Grate Catch Basin Grate Parallel to Edge of Pavement
3.3.5	6/98	Brick/Solid Block Double Grate Catch Basin Grate Perpendicular to Edge of Pavement
3.3.6A	6/98	High Capacity Inlet (Sheet 1 of 2)
3.3.6B	6/98	High Capacity Inlet (Sheet 2 of 2)
3.4.0	3/05 R1	Brick/Solid Block Type "D" Round Catch Basin
3.4.1	3/05 R1	Brick/Solid Block Round Catch Basin with Gutter Inlet
3.4.2	3/05 R1	Brick/Solid Block Type "F" Round Catch Basin

Detail <u>No.</u>	<u>Date</u>	Title
3.4.3	3/05 R1	Brick/Solid Block Type "R" Catch Basin
3.4.4	3/05 R1	Solid Block Flush Round Catch Basin
3.4.5	3/05 R1	Brick/Solid Block 5'-0" or 6'-0" Round Catch Basin
3.5.0	6/98	Solid Block Shallow Type "F" Square Catch Basin (Pipe Cover 1'-6" to 3'-0")
3.5.1	6/98	Solid Block Shallow 5'-0" or 6'-0" Square Catch Basin (Pipe Cover 1'-6" to 3'-0")
3.5.2	6/98	Solid Block Shallow Double Grate Catch Basin Grate Parallel to Curb
3.5.3	6/98	Solid Block Shallow Double Grate Catch Basin Grate Parallel to Edge of Pavement
3.5.4	6/98	Solid Block Shallow Double Grate Catch Basin Grate Perpendicular to Curb
3.5.5	6/98	Solid Block Shallow Double Grate Catch Basin Grate Perpendicular to Edge of Pavement
3.6.0	6/98	Brick/Solid Block Drop Inlet
3.7.0	6/98	Brick/Solid Block Round Manhole or Catch Basin Depth Greater than 12'-0"
4.1.0		No Standard Assigned
4.2.0	6/98	Precast 4'-0" Round Manhole
4.2.1	6/98	Precast 5'-0" Round Manhole
4.2.2	6/98	Precast 6'-0" Round Manhole
4.3.0	6/98	Precast 4'-0" or 6'-0" Square Manhole or Catch Basin
4.4.0	6/98	Precast 4'-0", 5'-0" or 6'-0" Round Catch Basin
4.5.0	6/98	Precast Concrete Drop Inlet
4.5.1	6/98	Precast Concrete Drop Inlet Lateral Outlet
4.5.2	6/98	Precast Concrete Drop Inlet Longitudinal Outlet

Detail <u>No.</u>	<u>Date</u>	<u>Title</u>
4.6.0	6/98	Concrete Cover for Shallow 4'-0" Round Manholes
4.6.1	6/98	Concrete Cover for Shallow 5'-0" Round Manholes
4.7.0	6/98	Top Cover for 4'-0" or 6'-0" Square Catch Basins and Manholes
4.7.1	6/98	Top Cover Monolithic with Riser Section for 4'-0" or 6'-0" Square Catch Basins and Manholes
4.7.2	6/98	Alternate Top Cover for Round Precast Manholes and Catch Basins
4.8.0	6/98	Concrete Cover for Shallow Type "F" Square Catch Basins
4.8.1	6/98	Concrete Cover for Shallow Double Grate Catch Basins with Curb
4.8.2	6/98	Concrete Cover for Shallow Double Grate Catch Basins without Curb
4.8.3	6/98	Concrete Cover for Shallow 5'-0" Square Catch Basins
4.8.4	6/98	Concrete Cover for Shallow 6'-0" Square Catch Basins
5.1.0	6/98	Precast Concrete Sump for Round Catch Basins (Wet Areas)
5.2.0	6/98	Round Manholes and Catch Basins Maximum Pipe Size Standard
5.3.0	6/98	Catch Basin and Manhole Step
5.4.0	6/98	Concrete Collars
6.1.0	6/98	Light-Duty Square Frame and Round Cover
6.1.1	6/98	Heavy-Duty Square Frame and Round Cover
6.2.0	6/98	Round Frame and Cover Light-Duty
6.2.1	6/98	Heavy-Duty Round Frame and Cover
6.3.0	6/98	Square Frame and Grate
6.3.1	7/06 R1	Square Frame and Grate
6.3.2	7/06 R1	Square Frame and Grate (Bicycle Safe)
6.3.3	6/98	High Capacity Frame and Grate
6.3.4	6/98	High Capacity Frame and Grate (Bicycle Safe)

Detail <u>No.</u>	Date	<u>Title</u>
6.4.0	6/98	Round Frame and Grate
6.4.1	4/13	Round Area Frame and Grate
7.1.0	3/05 R1	Precast Concrete Curb
7.1.1	6/10 R2	3'-0" Precast Concrete Transition Curb
7.1.2	3/05 R1	6'-0" Precast Concrete Transition Curb
7.1.3	3/05 R1	Precast Concrete Wheelchair Ramp Transition Curb
7.1.3A	9/12	High Side Transition Curb Length
7.1.4	3/05 R1	Precast Concrete 2'-0" Radius Corner
7.1.5	3/05 R1	Precast Concrete Inlet Stone (for Square Catch Basin)
7.1.6	3/05 R1	Precast Concrete Inlet Stone (for Round Catch Basin)
7.1.7	3/05 R1	Precast Concrete Apron Stone (for Square Catch Basin)
7.1.8	3/05 R1	Precast Concrete Apron Stone (for Round Catch Basin)
7.1.9	9/12 R1	Precast Concrete Ramp Stone
7.2.0	3/05 R1	Precast Concrete Sloped Face Curb
7.2.1	3/05 R1	Precast Concrete Sloped Face Transition Curb
7.2.2	3/05 R1	Precast Concrete Transition Curb (Vertical Face to Sloped Face)
7.2.3	6/98	Precast Concrete Lot Curb
7.2.4	3/05 R1	Precast Concrete Car Stops
7.3.0	9/12 R2	Granite Curb
7.3.1	9/12 R3	3'-0" Granite Transition Curb
7.3.2	9/12 R2	6'-0" Granite Transition Curb
7.3.3	9/12 R2	Granite Wheelchair Ramp Transition Curb
7.3.4	9/12 R2	Granite 2'-0" Radius Corner
7.3.5	9/12 R2	Granite Inlet Stone (for Square Catch Basin)

Detail <u>No.</u>	<u>Date</u>	Title
7.3.6	9/12 R2	Granite Inlet Stone (for Round Catch Basin)
7.3.7	9/12 R2	Granite Apron Stone (for Square Catch Basin)
7.3.8	9/12 R2	Granite Apron Stone (for Round Catch Basin)
7.3.9	9/12 R2	Granite Ramp Stone
7.4.0	3/05 R1	Granite Sloped Face Curb
7.4.1	3/05 R1	Granite Sloped Face Transition Curb
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7.5.0	3/05 R1	Bituminous Concrete Lip Curb
7.5.1	1/25 R2	Asphalt Berm
7.6.0	1/25 R2	Curb Setting Detail
7.7.0	3/14	Granite Truck Apron Stone
8.1.0	6/98	Seeded Ditch
8.2.0	1/25 R1	Paved Ditch
8.3.0	6/98	Rip-Rap Ditch
8.4.0	6/98	Paved Waterway
9.1.0	6/98	Baled Hay Erosion Check
9.2.0	6/98	Silt Fence Detail
9.3.0	6/98	Baled Hay Erosion Check and Silt Fence Combined
9.4.0	6/98	Baled Hay Ditch and Swale Erosion Check
9.5.0	6/98	Log and Hay Check Dam
9.6.0	6/98	Sand Bag Erosion Check
9.7.0	6/98	Dewatering Basin
9.8.0	6/98	Baled Hay Catch Basin Inlet Protection
9.9.0	6/98	Construction Access

Detail <u>No.</u>	<u>Date</u>	<u>Title</u>
10.1.0	6/98	Wet Stone Masonry Retaining Wall
10.2.0	6/98	Rubble Masonry Wall
10.3.0	6/98	Concrete Retaining Wall
10.4.0	6/98	Stone Masonry Steps
11.1.0		No Standard Assigned
12.1.0		No Standard Assigned
13.1.0		No Standard Assigned
14.1.0	6/98	Concrete Highway Bound
14.2.0	6/98	Granite Highway Bound
14.3.0	6/98	Highway Bound Set in Concealed Ledge
14.4.0	6/98	Reinforced Concrete Precise Level Monument
14.4.1	6/98	Standard Bench Mark Heads
14.4.2	6/98	Standard Marker Triangulation Station
14.4.3	6/98	Geodetic Survey Disk
14.5.0	6/98	Survey Wedge
14.5.1	6/98	Survey Stake
15.1.0	6/10 R1	Post and Mounting for Rural Mailbox
15.1.1	6/10	Setting and Mounting Dimensions for Rural Mailbox
15.2.0	6/10 R1	Post and Multiple Mountings for Rural Mailboxes
16.1.0		No Standard Assigned
17.1.0	6/98	Traffic Monitoring Station Single Junction Box Wood Post Detail
17.1.1	6/98	Traffic Monitoring Station Double Junction Box Wood Post Detail
17.2.0	6/98	Traffic Monitoring Station Portable Computer Cable
17.3.0	6/98	Traffic Monitoring Station Pole Mounted Cabinet

Detail <u>No.</u>	<u>Date</u>	Title
17.3.1	6/98	Traffic Monitoring Station Type "H" Cabinet Post Mounted Installation
17.3.2	6/98	Traffic Monitoring Station Type "H" Cabinet – Electrical Service
17.4.0	6/98	Traffic Monitoring Station Controller Cabinet Ground Mounted Installation
17.4.1	6/98	Traffic Monitoring Station Controller Cabinet Wiring Details – Interior
17.5.0	6/98	Traffic Monitoring Station Power Outlet Box
17.6.0	6/98	Traffic Monitoring Station Flexible Conduit Installation
17.7.0	6/98	Traffic Monitoring Station Loop Wire Layout for Directional Counting
17.7.1	6/98	Traffic Monitoring Station Loop Wire Layout for Multiple Lanes in the Same Direction
17.7.2	6/98	Traffic Monitoring Station Axle Sensor and Loop Layout
17.7.3	6/98	Traffic Monitoring Station Loop Dimensions
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17.7.5	6/98	Traffic Monitoring Station Sawcut Cross-Section with a Pavement Overlay
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18.1.1	6/08	Breakaway Support Couplings for Light Standards
18.2.0	11/13 R3	Precast Type "A" Handhole
18.2.1	5/11 R3	Precast Type "H" Heavy-Duty Handhole
18.2.2	5/11 R3	Precast Type "B" Heavy-Duty Handhole
18.3.0	6/08 R1	Aluminum Lighting Standards
18.3.1	6/08 R1	Aluminum Pole – Grounding Detail
18.3.2	6/08 R1	Typical Luminaire – Wiring Diagram
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18.3.5	6/08 R1	Recessed Bolt Couplings for Light Standards

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Detail <u>No.</u>	Date	<u>Title</u>
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18.3.7	6/08	Underpass Lighting Detail
18.4.0	6/08 R1	Service Pedestal
18.4.1	6/08 R1	Service Pedestal – Grounding Detail
18.4.2	6/08 R1	Service Pedestal 240/480 Volts – 3W
18.4.3	6/08 R1	Service Pedestal 240/480 Volts – 3W
18.4.4	6/08 R1	Service Pedestal 120/240 or 120/208 Volts – 3W
18.4.5	6/08 R1	Service Pedestal 120/240 or 120/208 Volts – 3W
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18.6.0	6/08 R1	Trench Detail for Conduit in Existing Roadway
18.6.1	6/08	Light Conduit – Road/Ramp Crossing
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19.1.0	6/98	Ground Mounted Controller Installation
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19.5.16/98Ornamental Mast Arm Foundation

Detail <u>No.</u>	<u>Date</u>	<u>Title</u>
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19.6.0B	6/98	Inductance Loop Vehicle Detector Installation Details (Sheet 2 of 2)
20.1.0	6/98	Pavement Markings – Arrows and Only
20.2.0	6/98	Bi-Directional Control Device
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22.1.0		No Standard Assigned
23.1.0		No Standard Assigned
24.1.0	6/98	Sign Post Selection and Installation Details Square Post (Signs up to 8'-0" W x 4'-0" H)
24.2.0	6/98	Sign Post Selection and Installation Details U-Channel Post (Signs up to 8'-0" W x 4'-0"H)
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24.4.0	6/98	Cantilever Breakaway Sign Support for 4'-0" to 5'-0" Sidewalks
24.5.0		No Detail Assigned
24.6.0	6/98	Parking Sign Mounting Detail
24.6.1	6/98	Street Sign Mounting Detail
24.6.2	6/98	Mile Marker Mounting Detail
24.6.3	6/98	Lightweight Steel Delineator Mounting Detail
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25.1.0	6/98	Temporary Construction Sign Cover Detail
25.2.0	5/11 R1	Box Form
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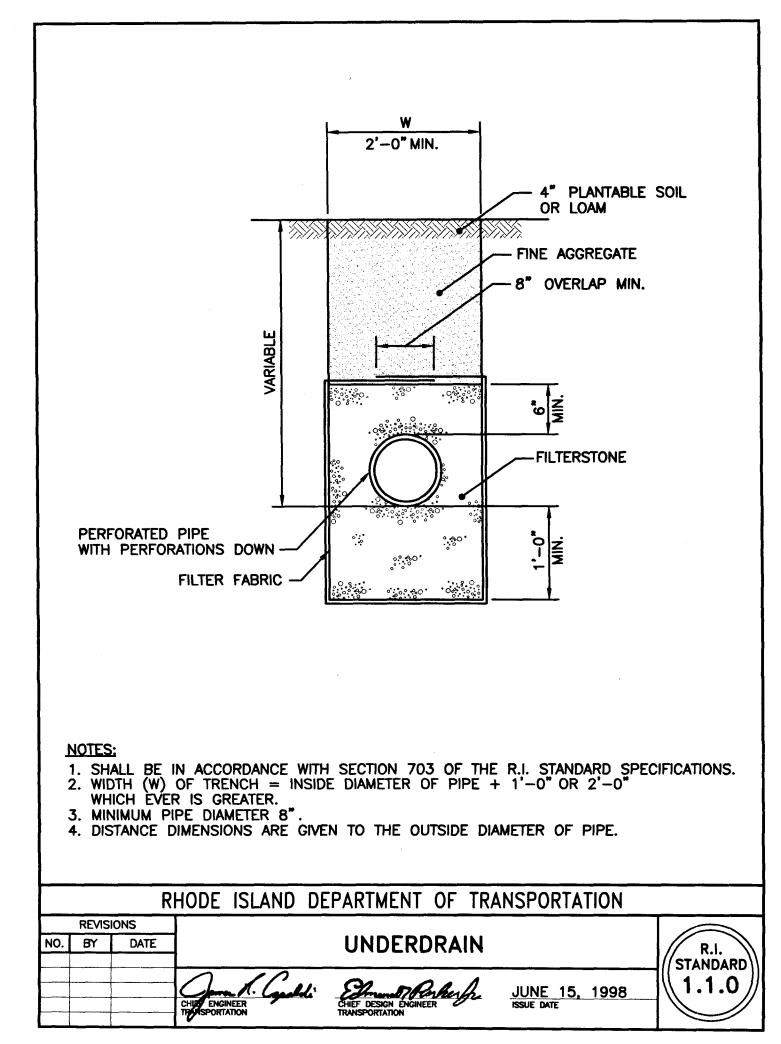
Detail <u>No.</u>	Date	Title
26.2.0	3/05 R1	Polyethylene Drum with Markings
26.3.0	3/05 R1	PVC Plastic Pipe Type III Barricade
26.3.1	3/05 R1	Plastic Pipe Type III Barricade
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30.4.3	6/98	Bill of Materials
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31.2.0	6/10 R2	Chain Link Fence 5'-0" to 6'-0"

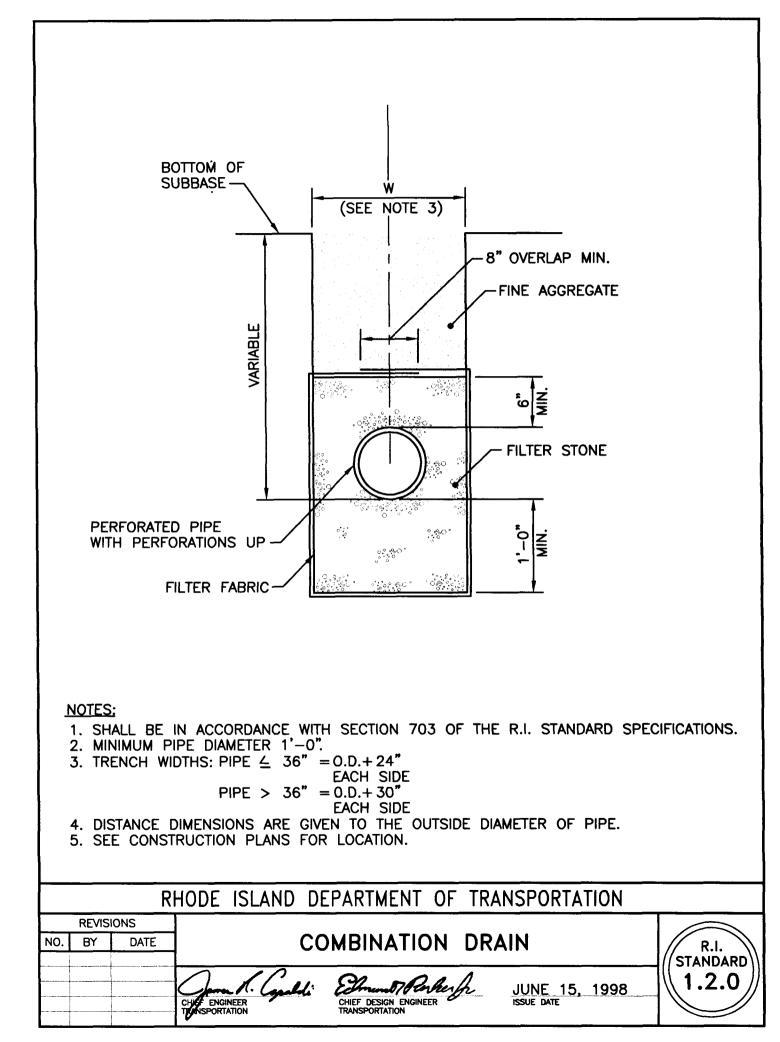
Detail <u>No.</u>	<u>Date</u>	<u>Title</u>
31.2.1	3/05 R1	Chain Link Fence 5'-0" to 6'-0" Intermediate Post
31.3.0	3/05 R1	Woven Wire Right-of-Way Fence (Steel Post)
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33.1.0		No Standard Assigned
34.1.0	10/22	Roadside Guardrail (General Notes, Installation, Post & Offset Block Details)
34.1.1	10/22	Typical Guardrail Installation at Structures
34.1.2	10/22	Steel Beam Guardrail Encased Post for Shallow Installation
34.1.3	10/22	Steel Beam Guardrail Deep Post Installation
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34.2.3		No Standard Assigned
34.2.4		No Standard Assigned
34.2.5	6/98	Steel Beam Guardrail Reflectorized Triangular Delineator
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34.3.5	6/98	Guardrail Connection to Existing End Post Approach End Section
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34.3.7	10/22	Steel Beam Guardrail Transition to Rigid Barrier
34.3.8	10/22	MASH Guardrail Transition to Existing Guardrail

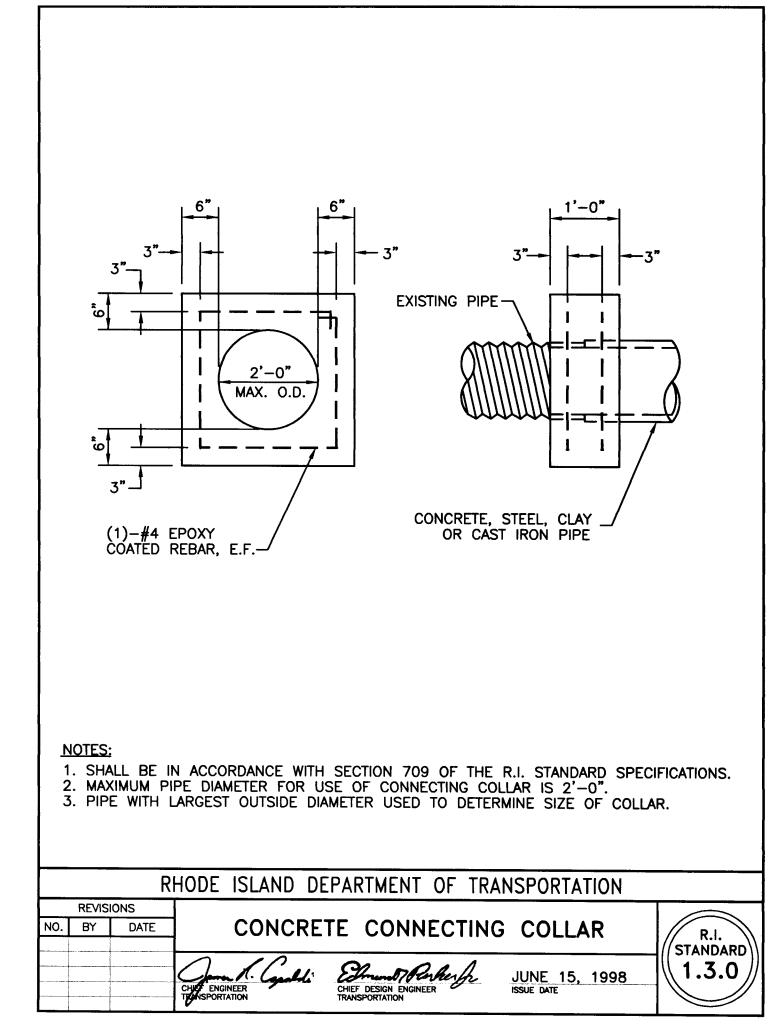
Detail <u>No.</u>	<u>Date</u>	Title
34.3.9	10/22	Steel Beam Guardrail Long Span, TL-3
34.4.0		No Standard Assigned
34.4.1		No Standard Assigned
34.4.2		No Standard Assigned
34.5.3	5/09	Steel Thrie Beam Guardrail Single Face
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35.1.0		No Standard Assigned
36.1.0		No Standard Assigned
37.1.0		No Standard Assigned
38.1.0		No Standard Assigned
39.1.0		No Standard Assigned
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40.2.1	10/22	F Shape Concrete Barrier with Concrete Separator
40.3.0	10/22	Precast Median Barrier Transition Unit
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42.1.0		No Standard Assigned
43.1.0	6/10 R2	Cement Concrete Sidewalk
43.2.0	1/25 R3	Asphalt Sidewalk
43.3.0	9/12 R3	Wheelchair Ramp
43.3.1	9/12 R2	Wheelchair Ramp for Limited Right-of-Way Areas

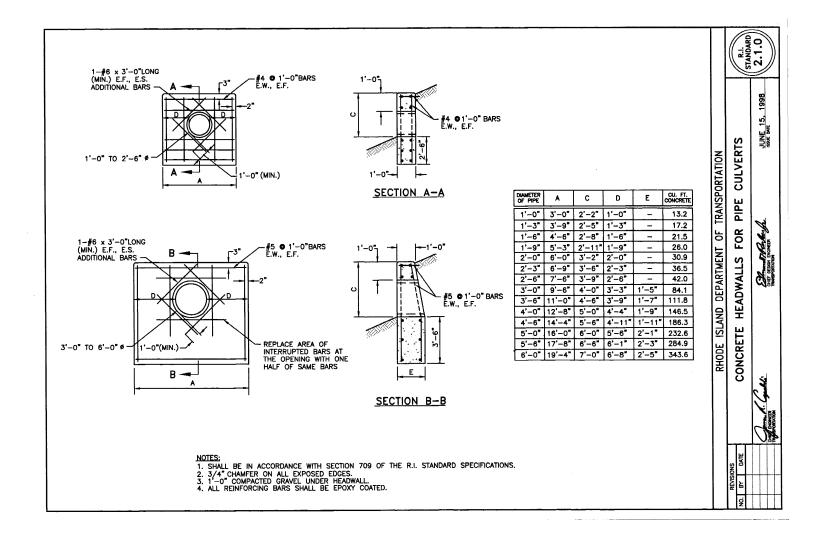
Detail <u>No.</u>	<u>Date</u>	Title
43.3.2	3/15	Ramp Landing for Narrow Sidewalk
43.4.0	6/10 R3	Driveway Development for 3'-0" Transition Curb
43.4.1	6/08 R2	Driveway Development for 6'-0" Transition Curb
43.5.0	6/10 R3	Cement Concrete Driveways
44.1.0		No Standard Assigned
45.1.0		No Standard Assigned
46.1.0		No Standard Assigned
47.1.0	6/98	Pavement Removal Drop-Off Detail
47.1.1	1/25 R1	Pavement Transverse Drop-Off Cut and Match
48.1.0	9/12 R2	Detectable Warning Panel Placement
49.1.0		No Standard Assigned
50.1.0	6/98	Large Tree Staking and Planting Detail (2" Caliper and Greater)
50.1.1	6/98	Tree Planting on Slope
50.1.2	6/98	Paver Detail Around New Trees
50.2.0	6/98	Evergreen Tree Planting Detail (4'-0" High and Greater)
50.3.0	6/98	Ball and Burlap Shrub Planting Detail
50.3.1	6/98	Container Grown Shrub Planting Detail
50.3.2	6/98	Shrub Planting on Slope
50.4.0	6/98	Perennial Planting Detail
50.5.0	6/98	Ornamental Grass Planting Detail
50.6.0	6/98	Groundcover Planting Detail
50.7.0	6/98	Bulb Planting Detail
51.1.0	6/98	Tree Protection Device
51.1.1	6/98	Drip Line Tree Protection Device for Existing Trees

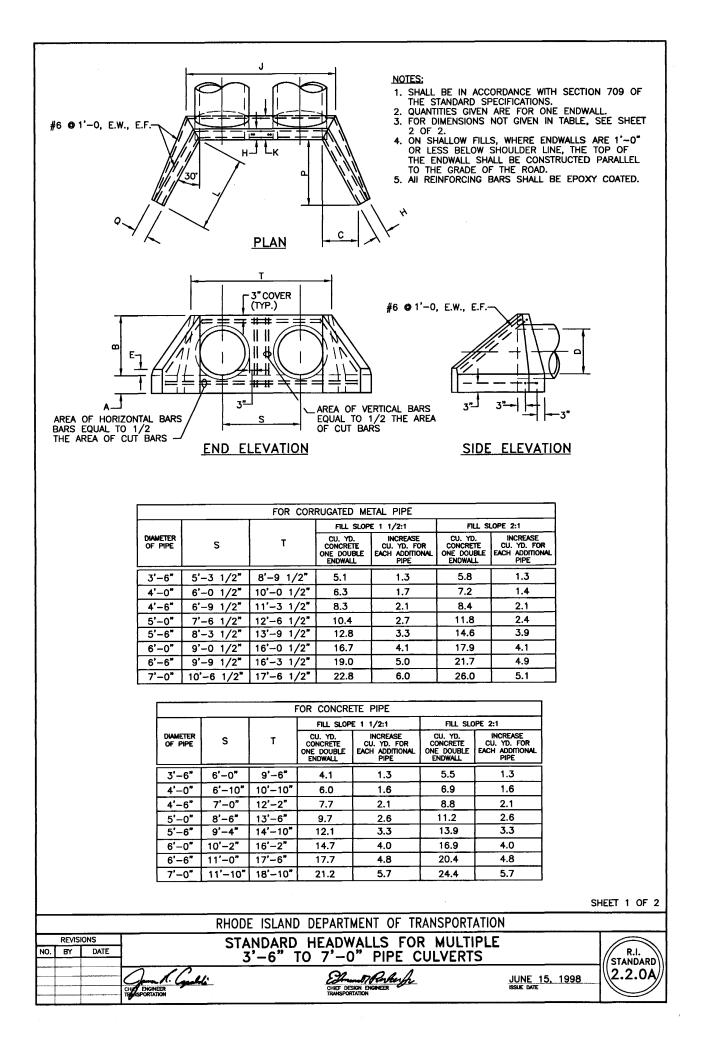
Detail						
<u>No.</u>	<u>Date</u>	<u>Title</u>				
51.2.0	6/98	Shrub Protection Device				
51.3.0	6/98	Tree Well				
51.4.0	6/98	Tree Wall				



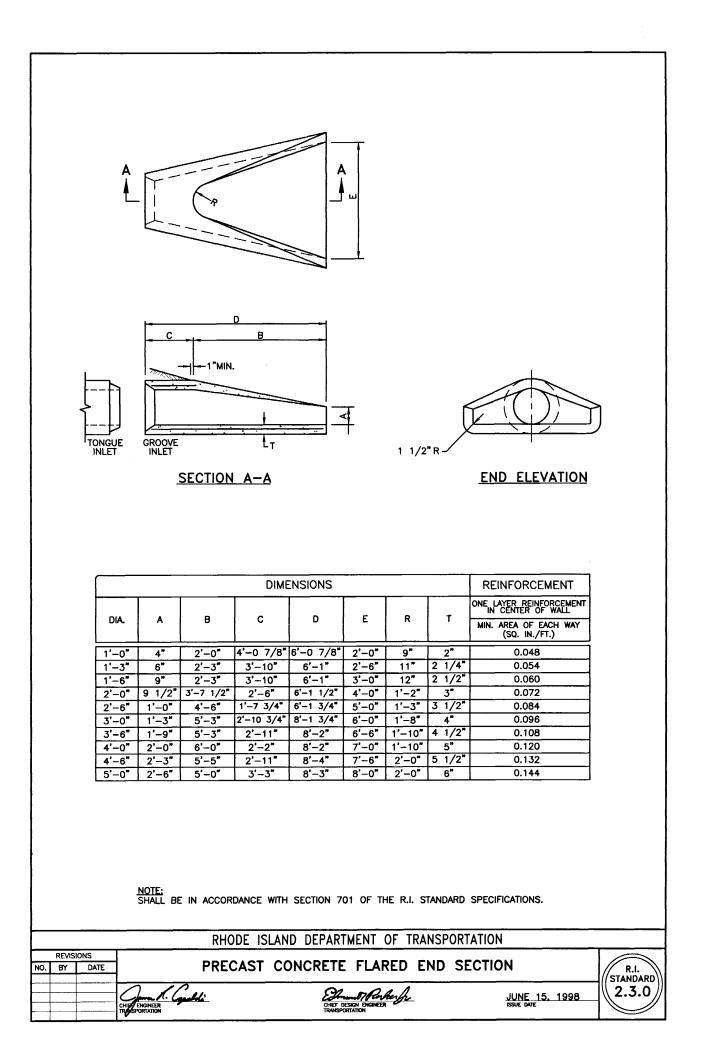


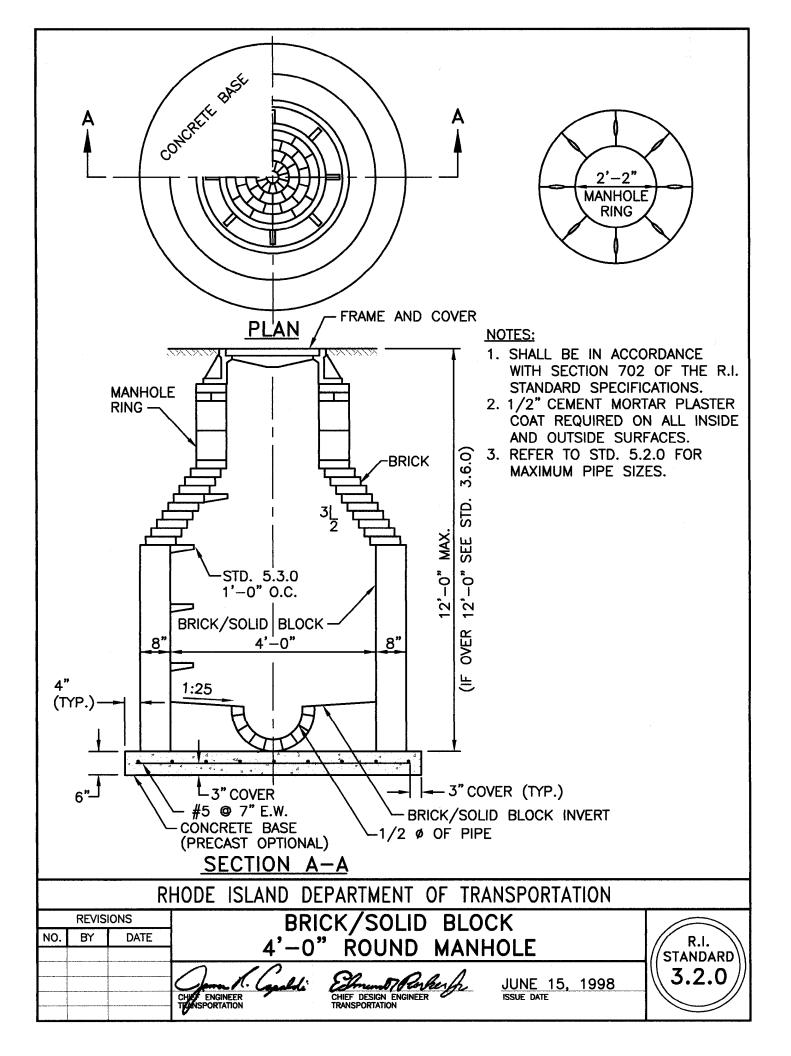


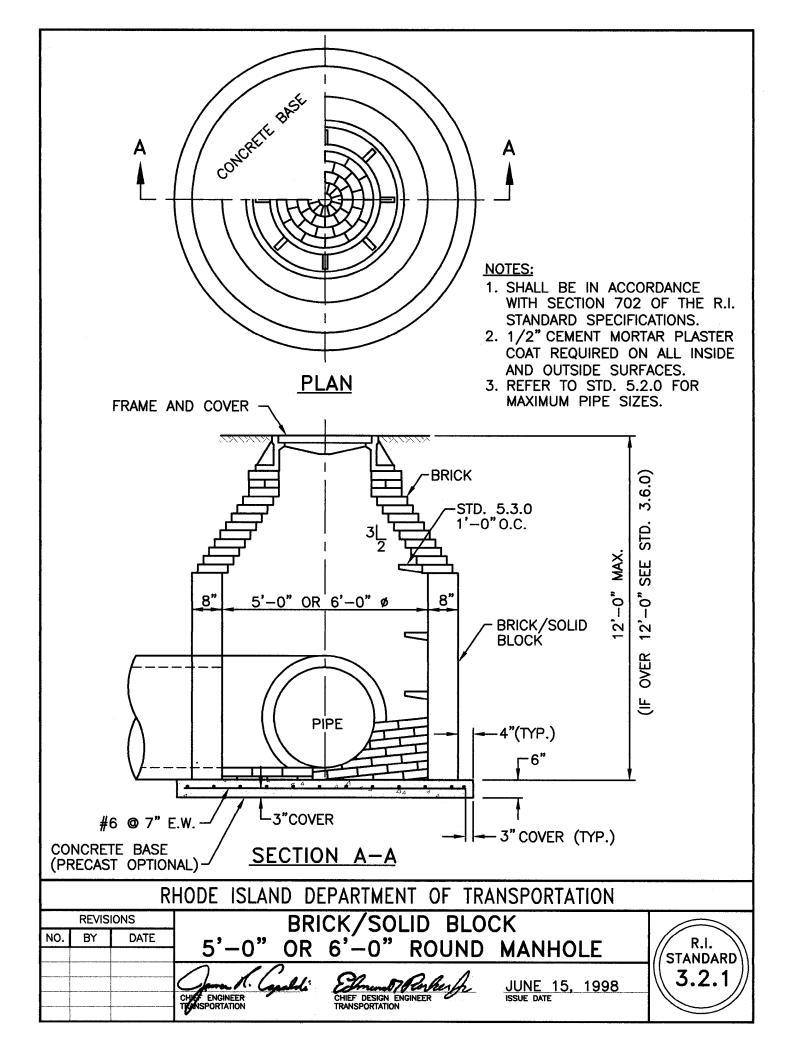


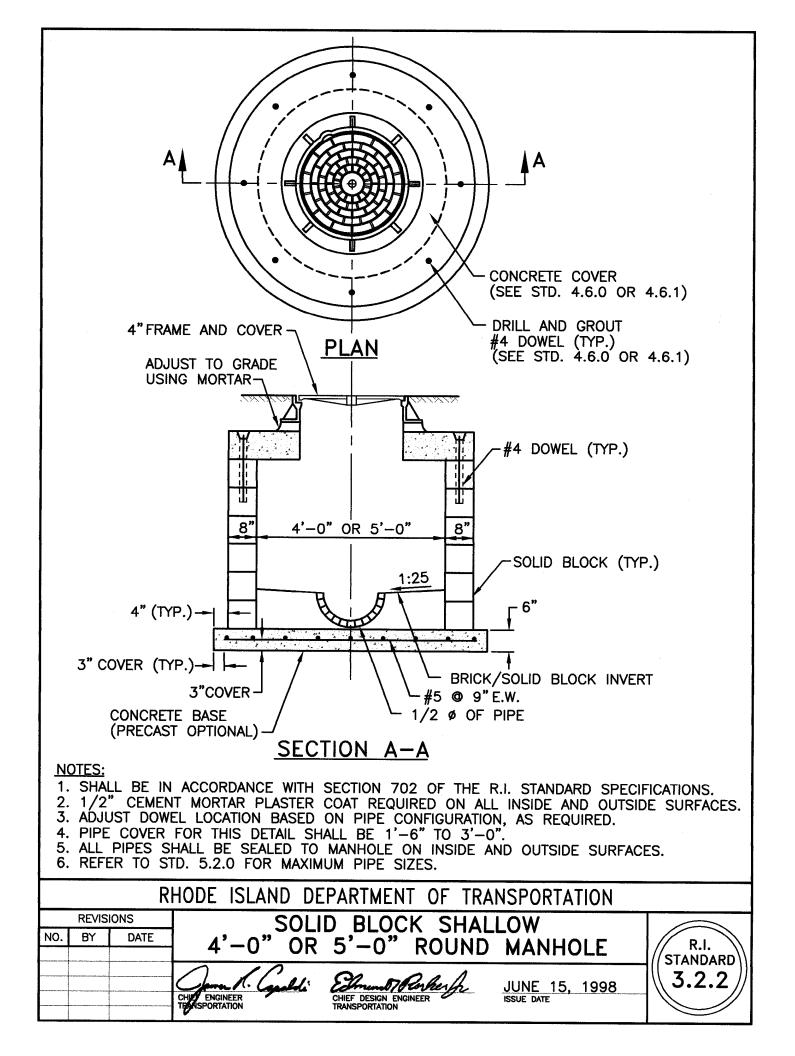


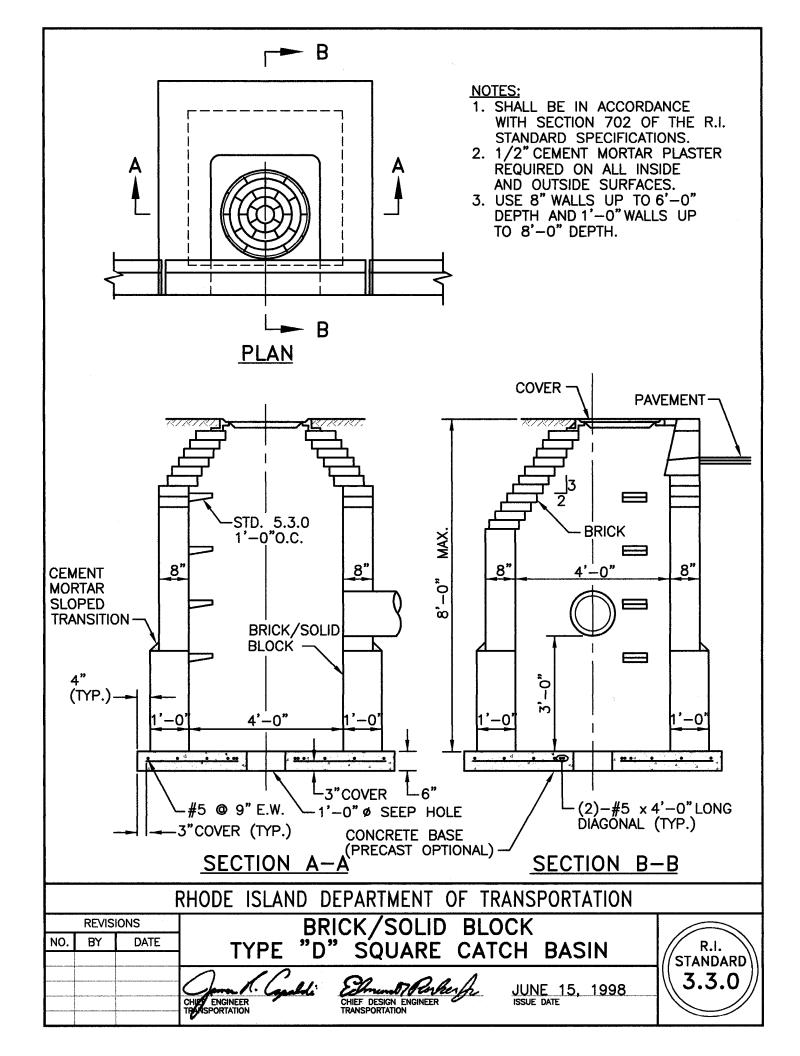
	REVISIONS NO. BY DATE		TABLE OF DIMENSIONS AND CONCRETE VOLUMES PER HEADWALL FOR 3'-6" TO 7'-0" CIRCULAR PIPE CULVERTS										
-# <u></u>	┟┸┸╌	오	DIAMETER OF PIPE CULVERTS										
		RHODE				3'-6"	4'-0"	4'-6"	5'-0"	5'6"	6'-0"	6'-6"	7'-0'
ENGINEER	ST	m		SLOPE	Α	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"
<u>ĕ</u> ₩	MA	$\overline{\mathbf{N}}$		รา	В	4'-4"	4'-10"	5'-4"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"
5	- G	ISLAND		ЫЦ		3'-3 3/4"	3'-9"	4'-2 1/4"		5'-0 5/8"		5'-11"	6'-4 1/4"
17	lo [®] Å	ISI			D	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Ę	"B			/2:1	E	<u>0'-6"</u> 0'-10"	0'-6" 0'-10"	0'-6"	<u>0'-6"</u>	0'-6"	0'-6"	0'-6"	<u>0'-6"</u> 1'-4"
	0-	μ		\geq	H	<u> </u>	13'-2 1/4"	0'-11" 14'-9 1/4"	<u>1'-0"</u> 16'-4"	<u>1'–1"</u> 17'–11"	<u>1'-2"</u> 19'-6"	1'-3" 21'-0 3/4"	1-4
臨り		EPARTMENT		-	ĸ	1'-11"	2'-0 1/2"	2'3"	2'-5 1/2"	2'-8"	2'-10 1/2"	3'-1"	3'-3 1/2''
N R	Z'-0" I	121		FOR	L	6'-7 5/8"	7'-6"	8'-4 1/2"	9'-2 7/8"		10'-11 5/8"	11'-10"	12'-8 3/8"
Ω̈́Z	lò₹	m		Ĕ	Р	5'-9"	6'-6"	7'-3"	8'-0"	8'-9"	9'-6"	10'-3"	11'-0"
NGIN	ראי אב	3			Q	0'-11 1/2"	0'-11 1/2"	1'-0 1/2"	1'-1 1/2"	1'-2 1/2"	1'-3 1/2"	1'-4 1/2"	1'-5 1/2"
HIF DESIGN ENGINEER	LS F	유		CU. YD.	CONC. PIPE	3.6	4.4	5.7	7.1	8.8	10.8	12.9	15.4
h	ы Б.	井		CONC.	C.M. PIPE	3.8	4.7	6.1	7.7	9.5	11.7	14.4	16.7
	C R	Â	A	FOR 2:1 FILL SLOPE	С	4'-4"	4'-10 7/8"	5'-5 3/4"	6'-0 3/4"	6'-7 5/8"	7'-2 5/8"	7'-9 1/2"	8'-4 1/2"
JUNE 15, ISSUE DATE		<u>S</u>		203	J	11'-8 1/4"	13'-2"	14'-9"		17'-10 3/4"	19'-5 1/2"	21'-0 1/2"	22'-7 1/8"
ğΞ	L/E	P		К-Ч	L	8'-0"	9'-9 3/4"	10'-11 5/8"	12'-1 1/2"	13'-3 3/8"	14'-5 1/4"	15'-7"	<u>16'-9"</u>
#	RT	곡			P	7'-6"	8'6"	9'-6"	10'-6"	11'-6"	12'-6"	13'-6"	14'-6"
	S D	TRANSPORTATION			CONC. PIPE	4.3	5.3	6.8	8.6	10.7	13.0	15.7	18.7
1998	Ē	2		CONC	C.M. PIPE	4.5	5.6	7.2	9.1	11.4	13.9	16.8	20.0
2.2.0B	R.I. STANDARD		SHEET 2 OF 2	<u>NO</u> FOF		DIMENSIONS	NOT SHOW	'N, SEE VAL	UES LISTED) ABOVE FO	R 1 1/2:1	FILL SLOP	Ξ

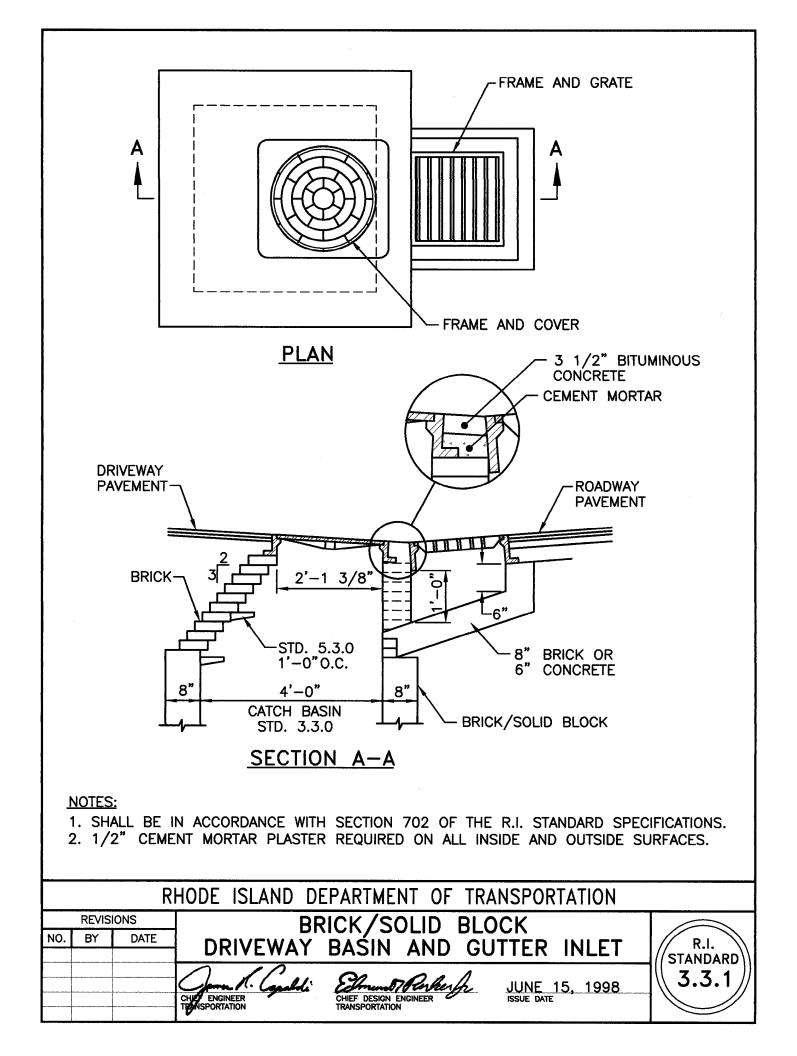


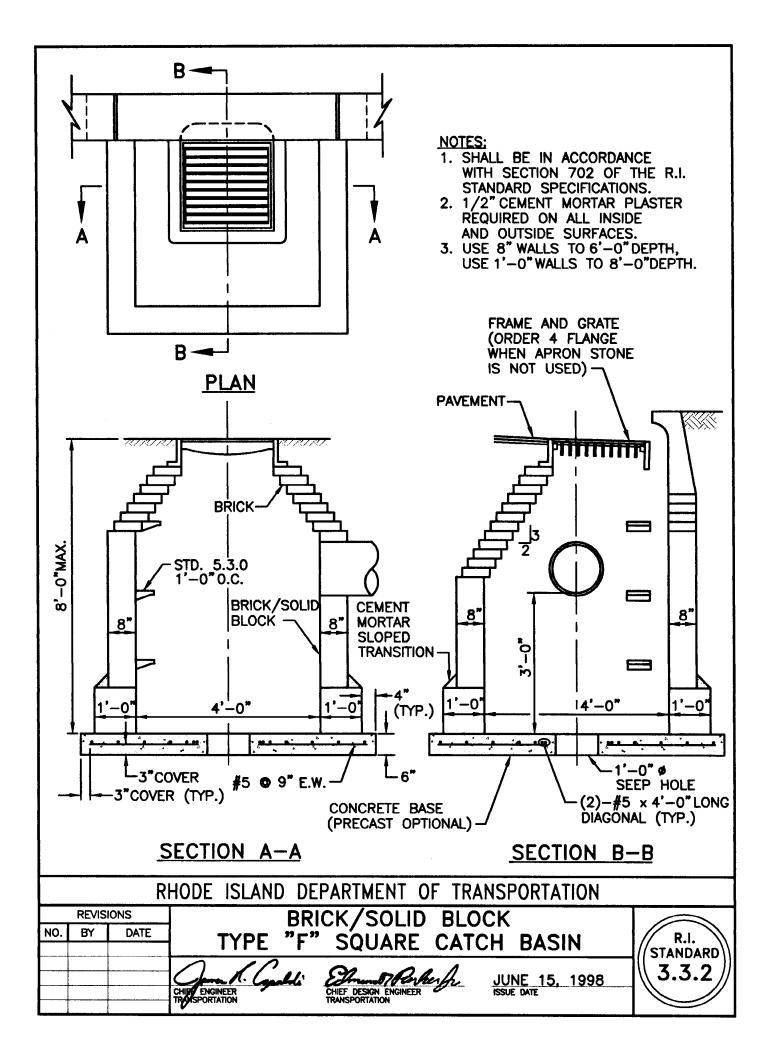


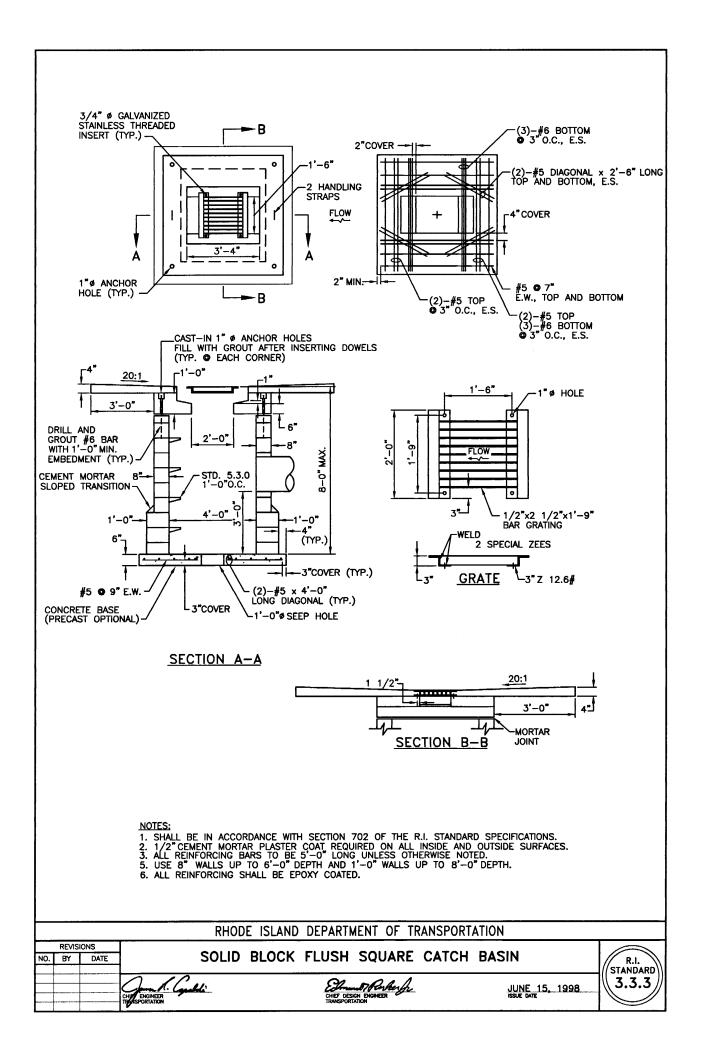


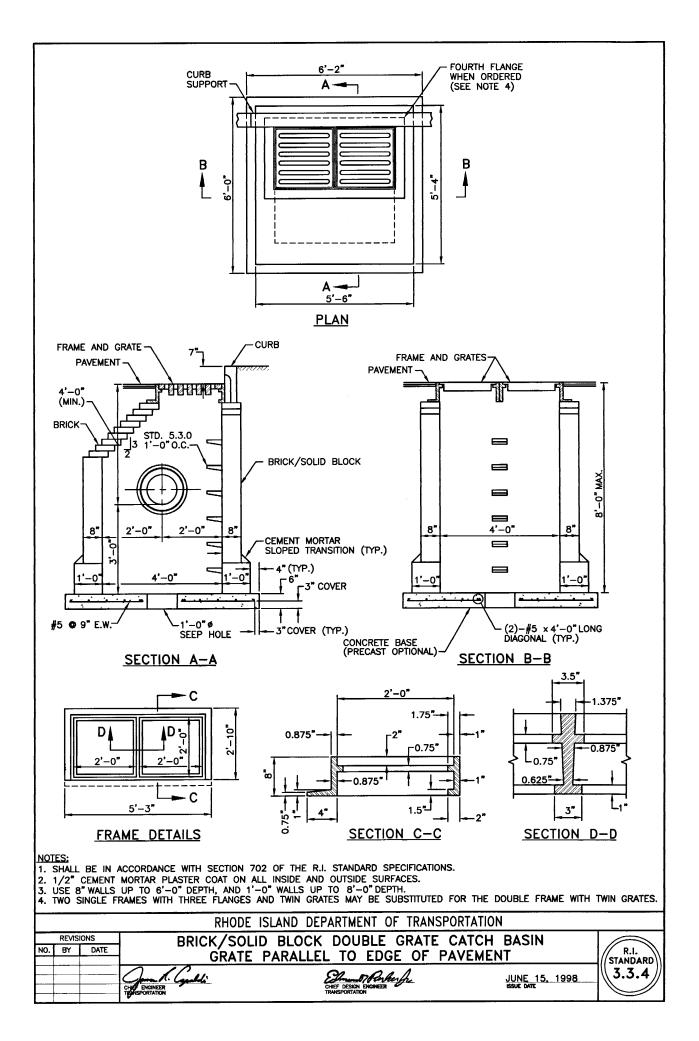


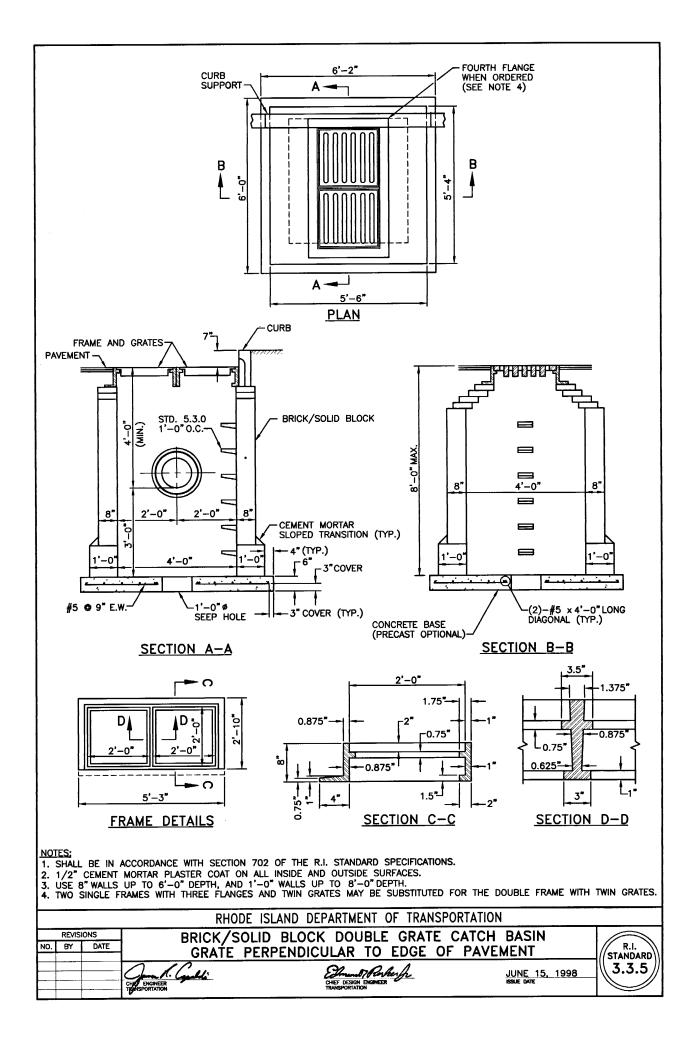


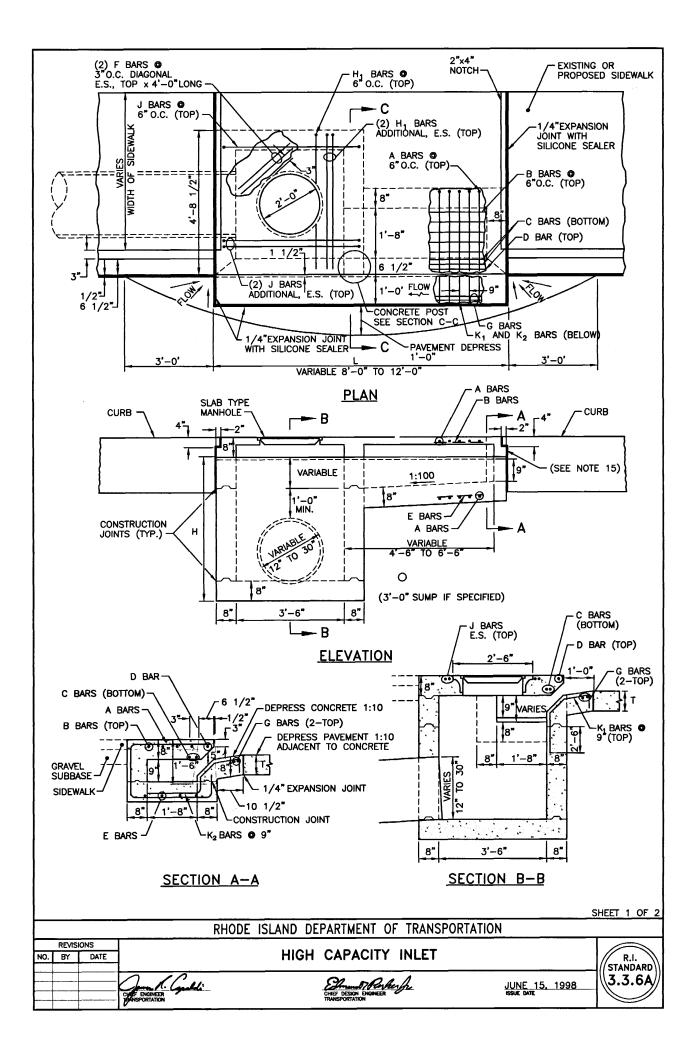


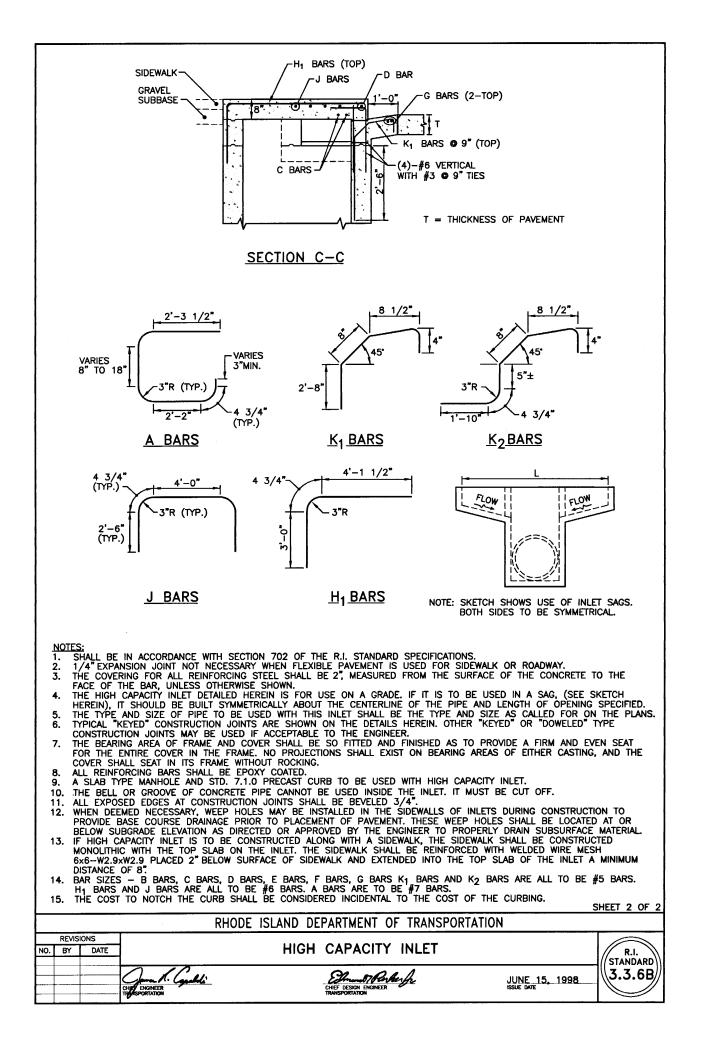


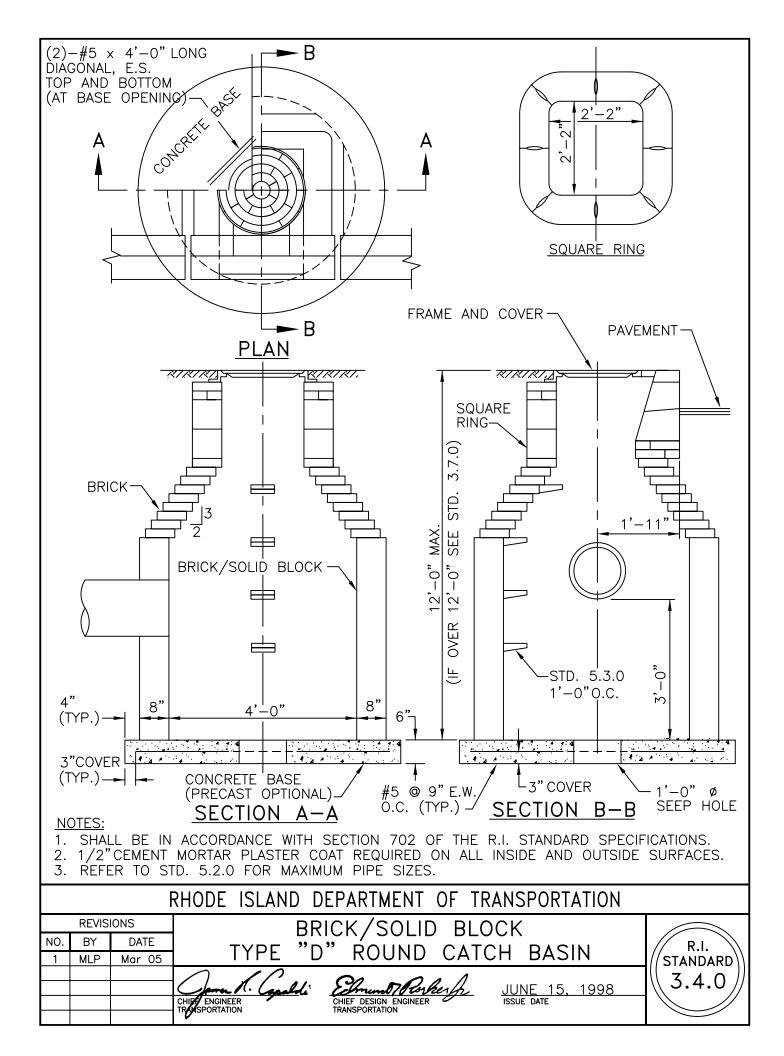


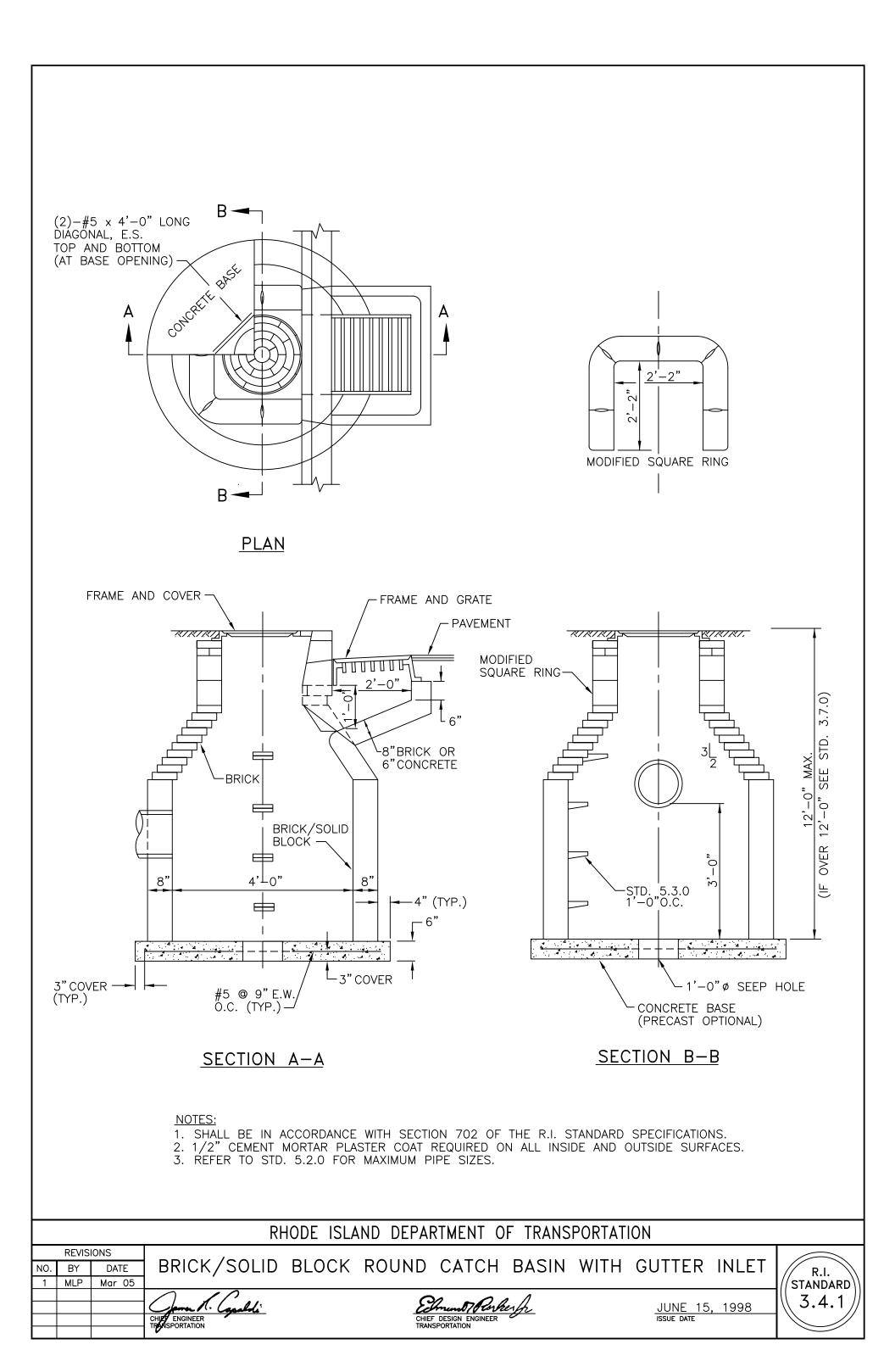


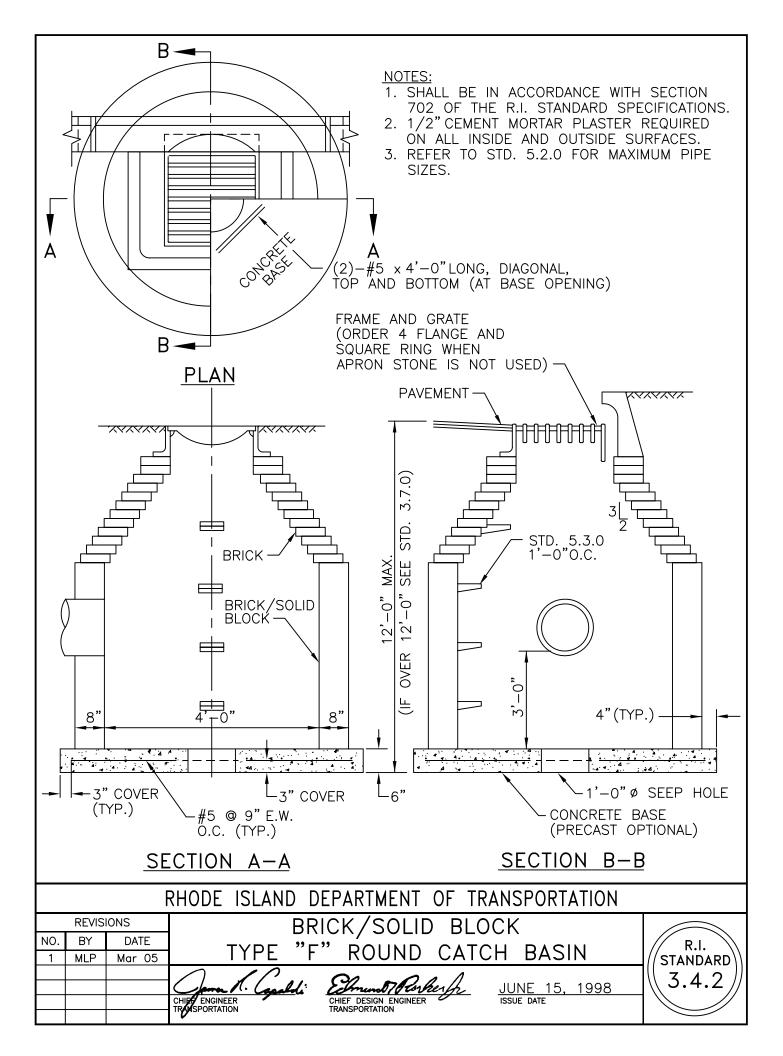


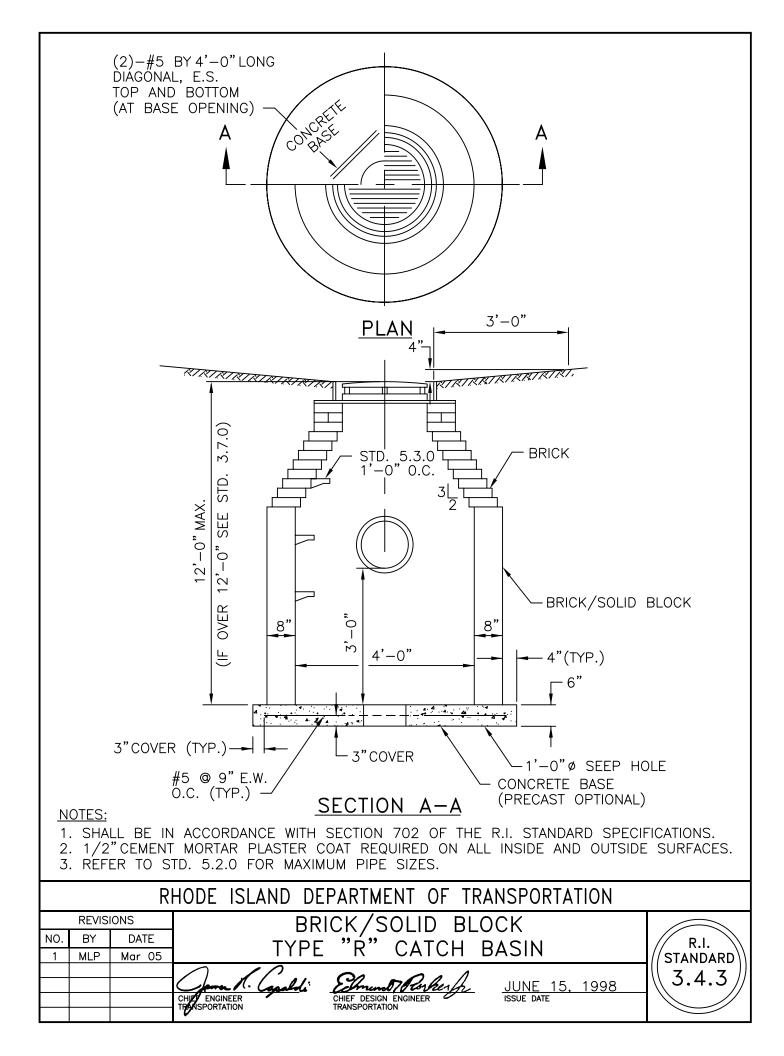


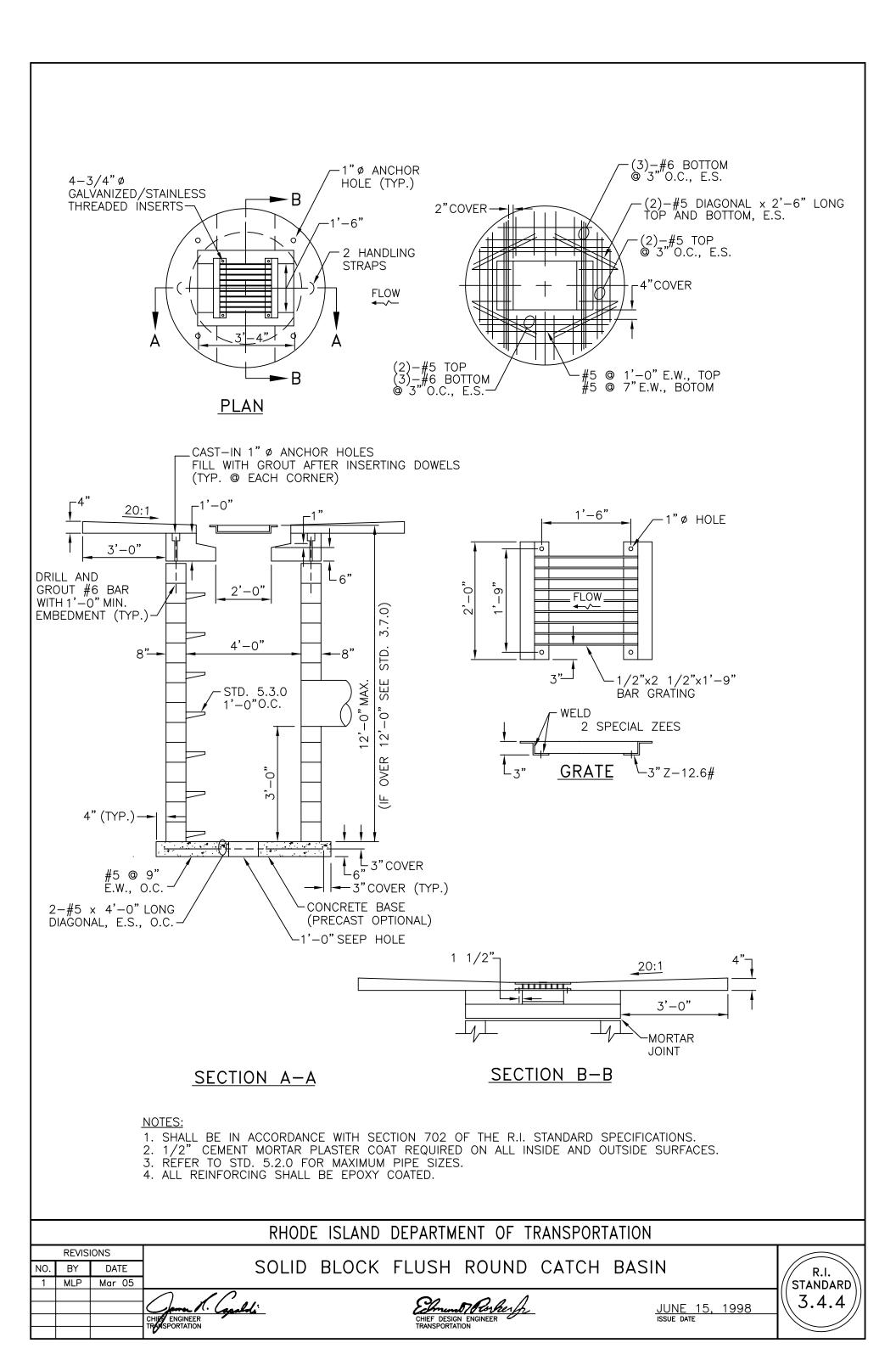


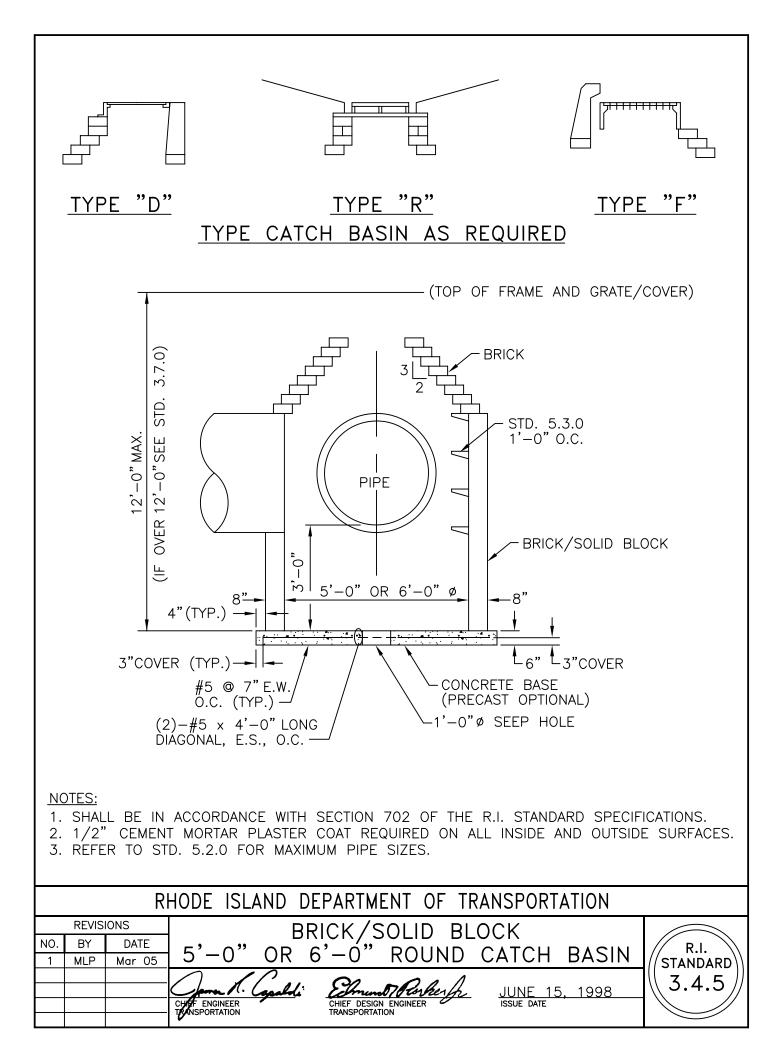


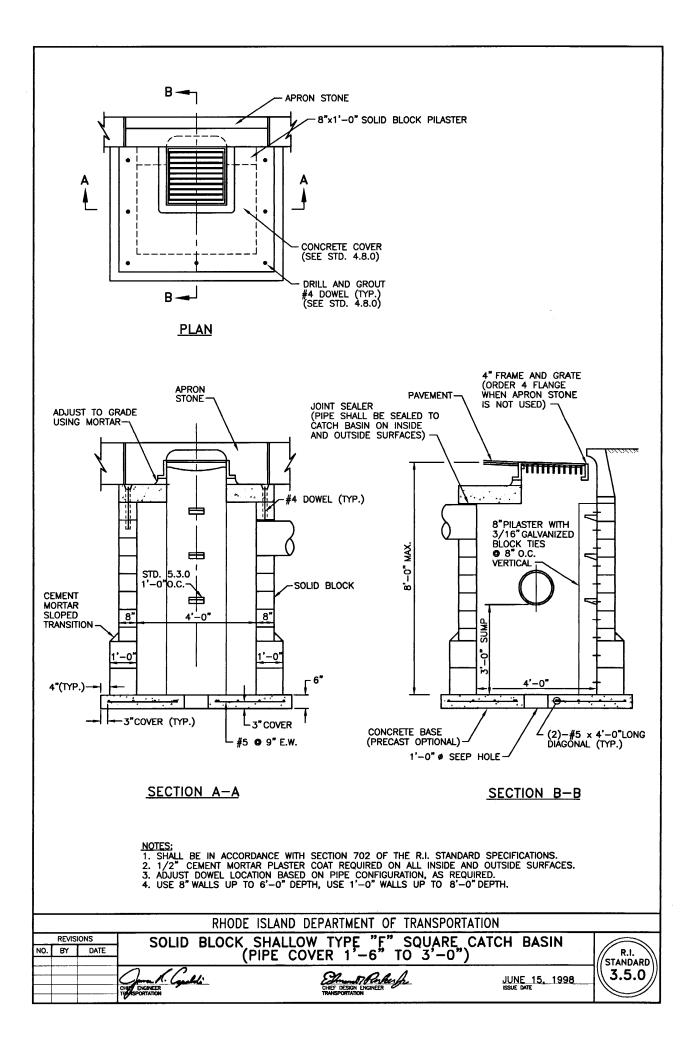


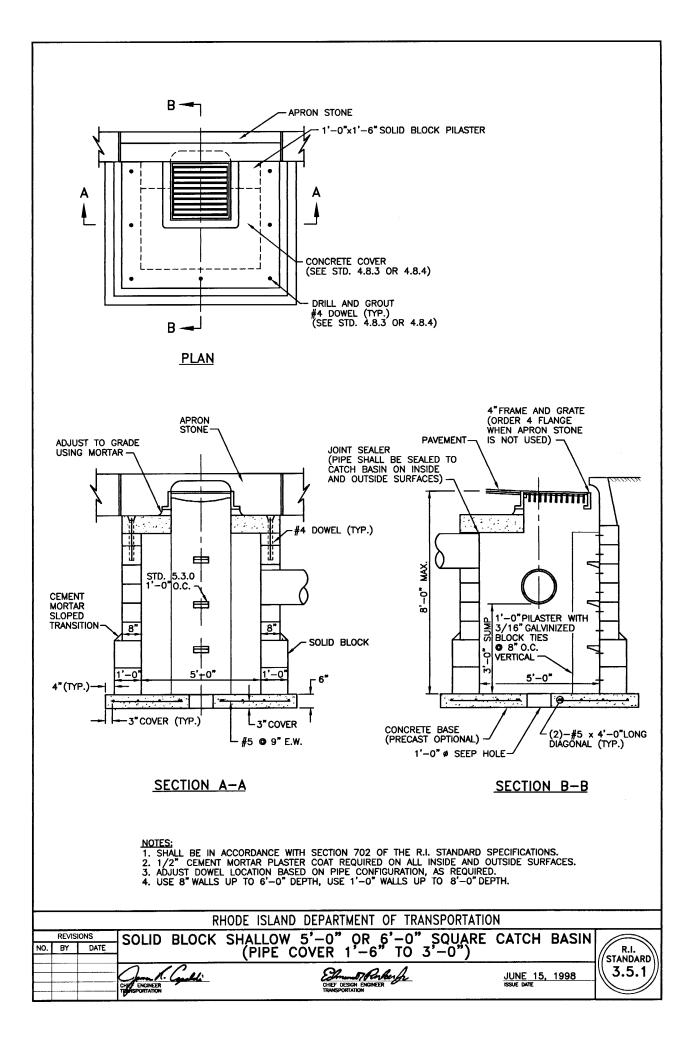


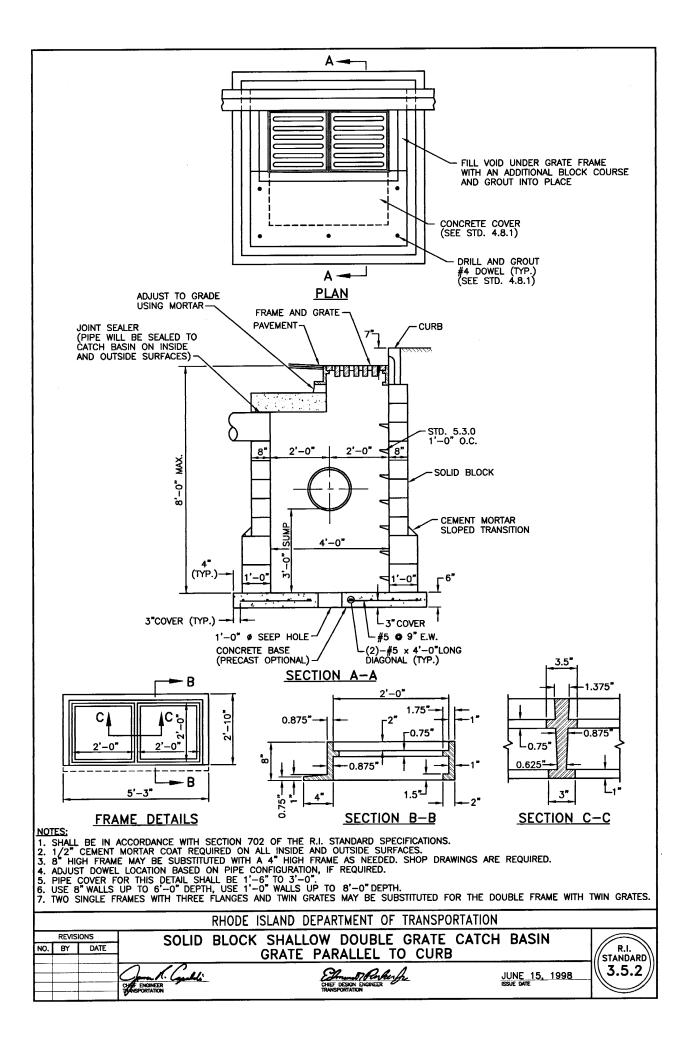


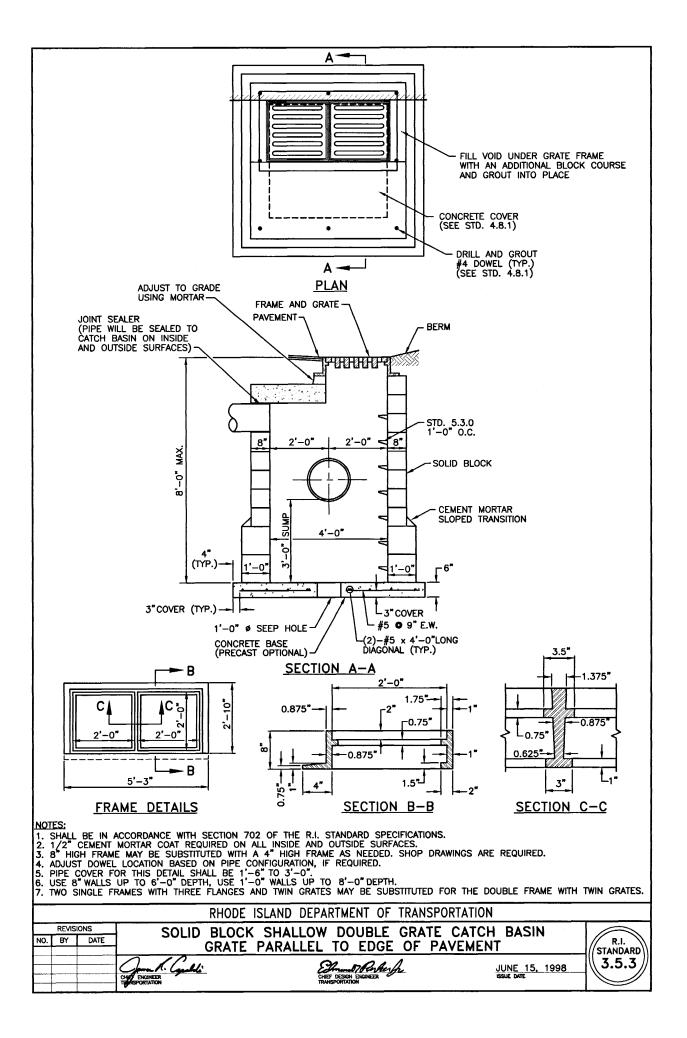


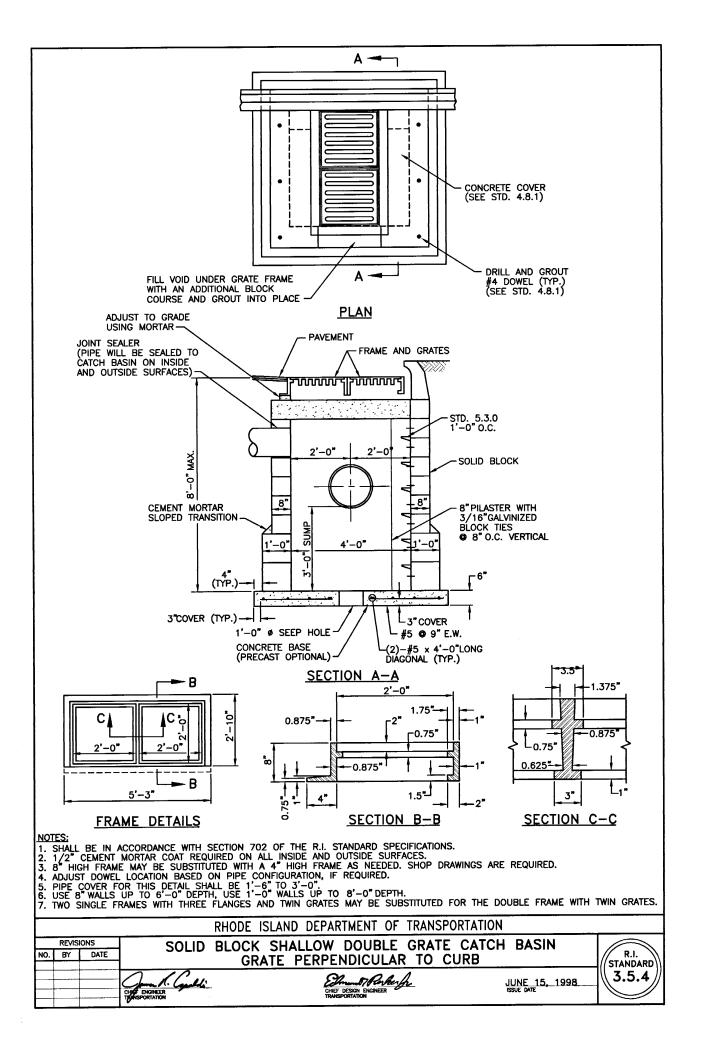


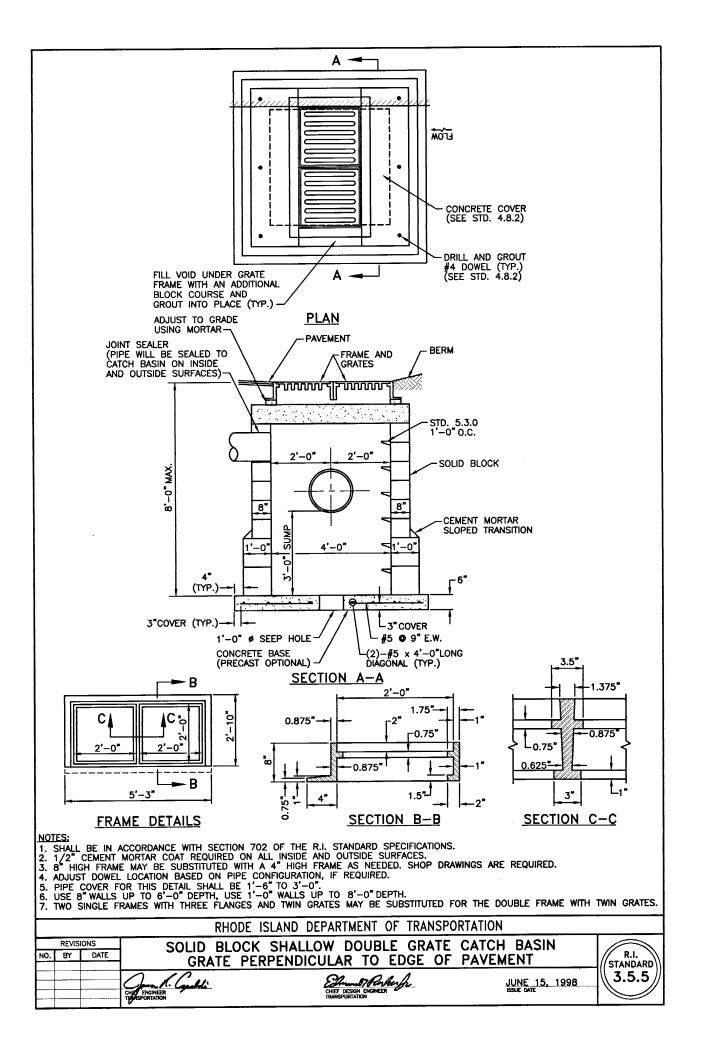


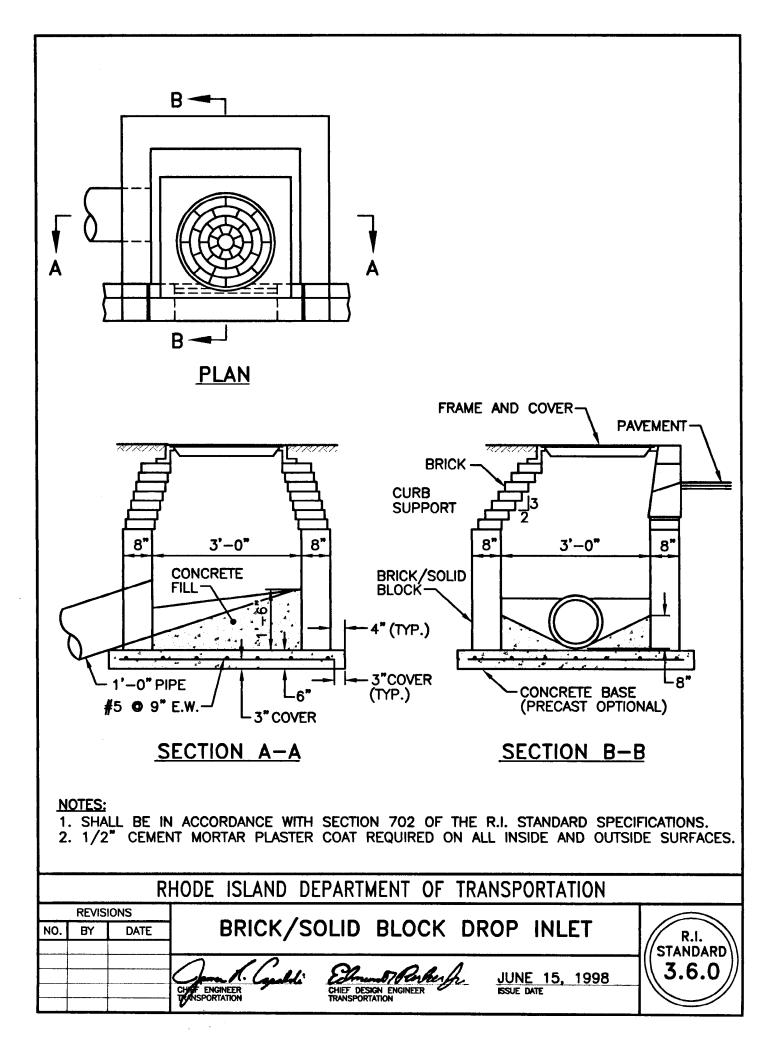


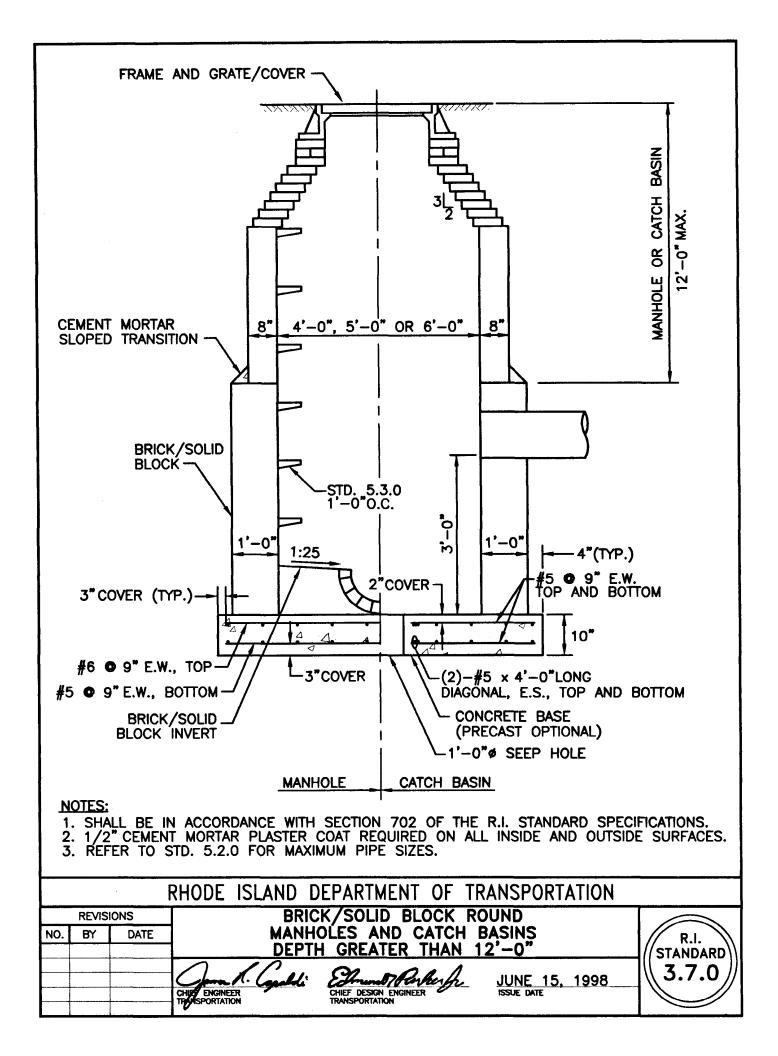


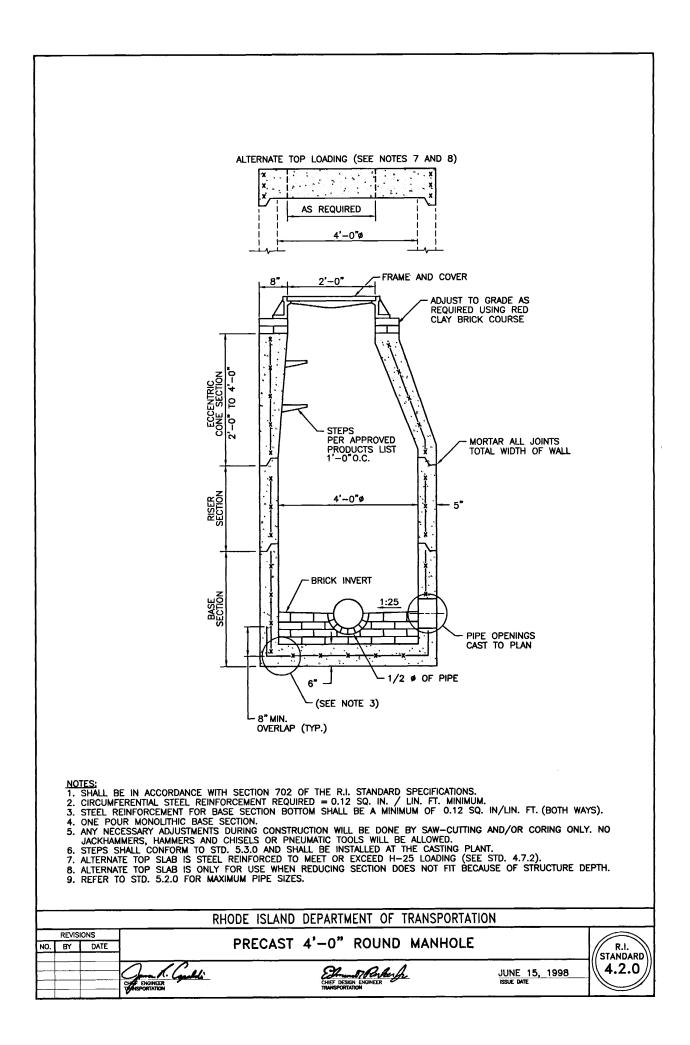


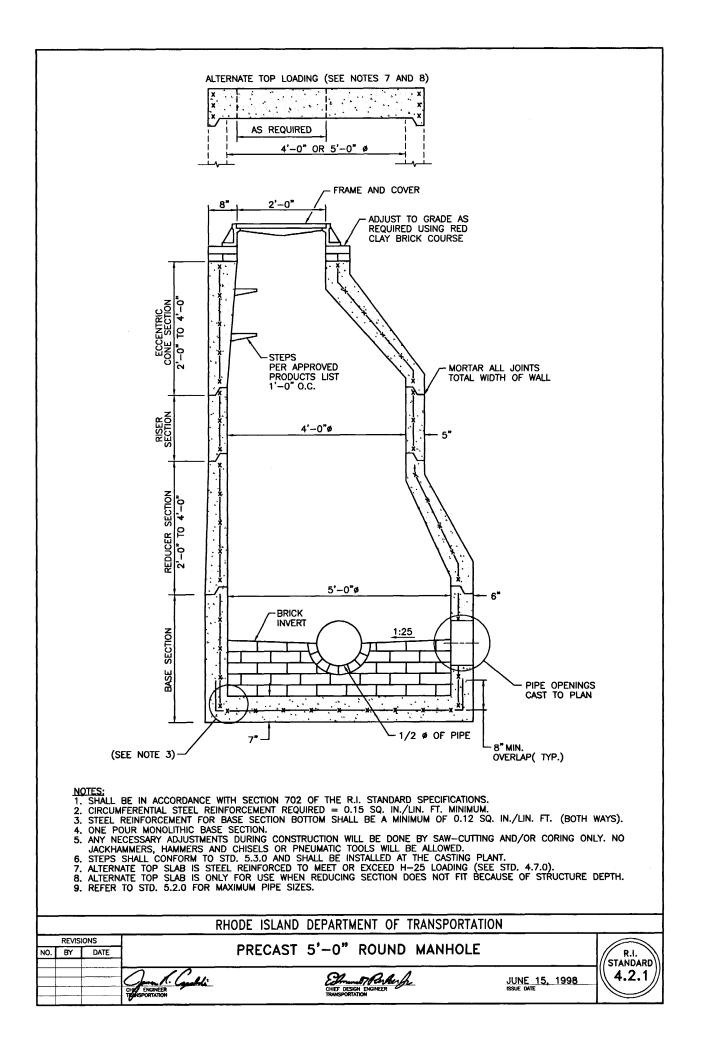


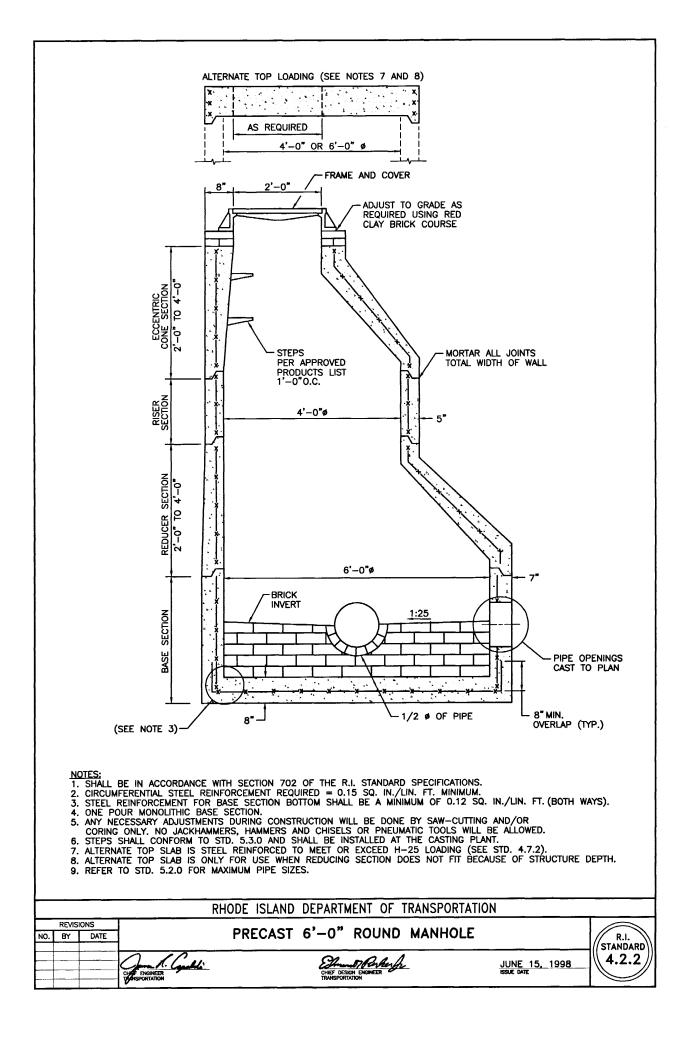


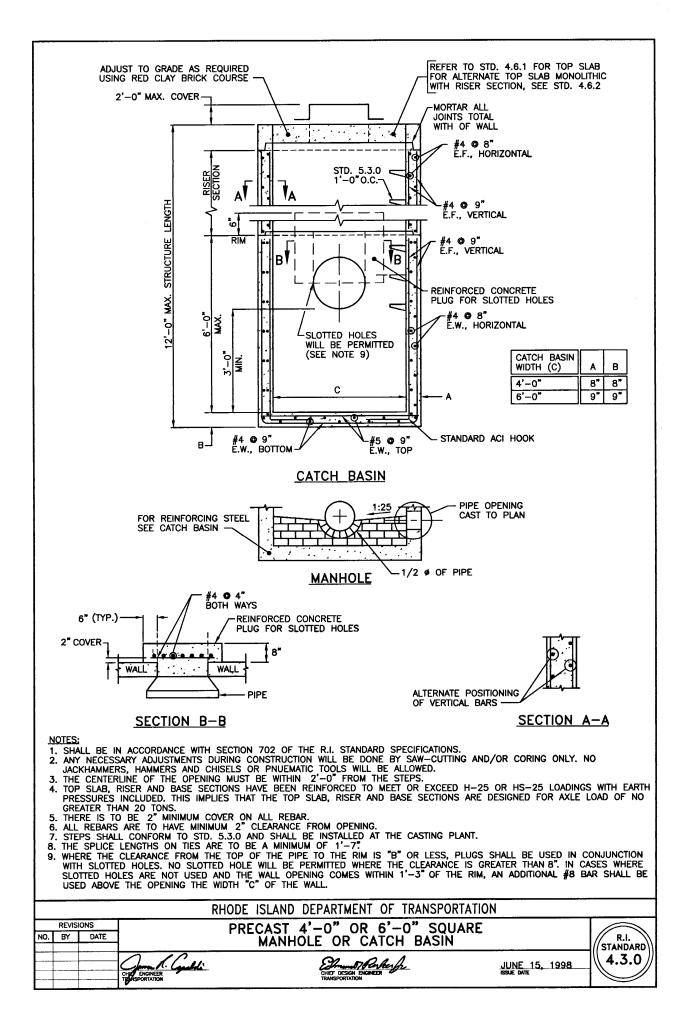


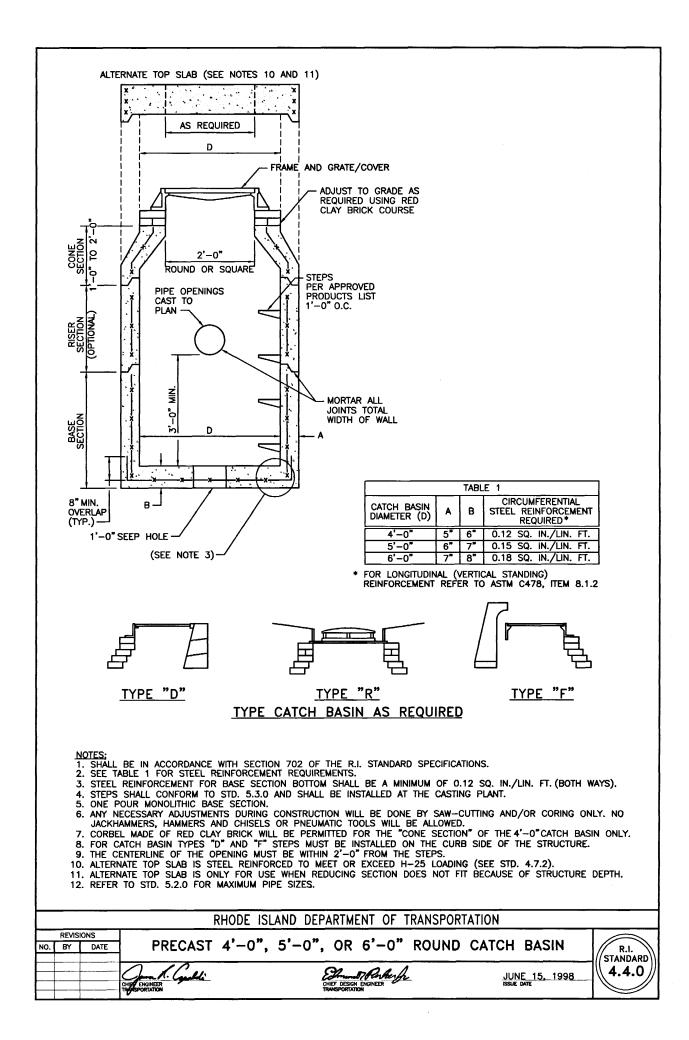


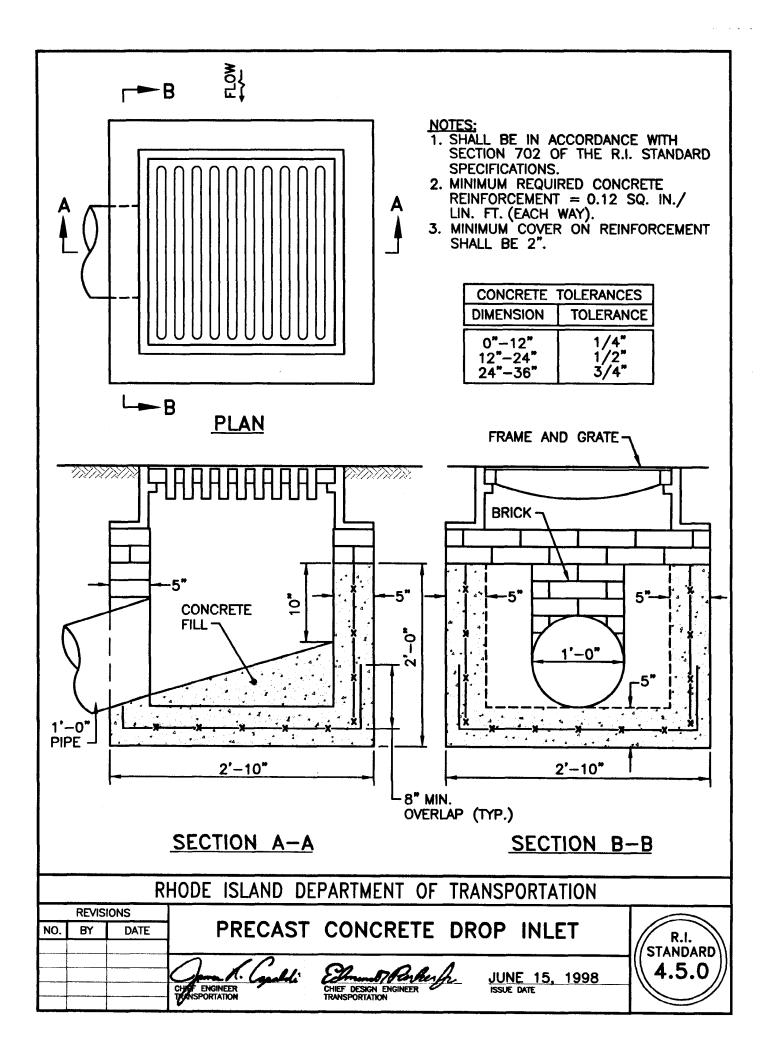


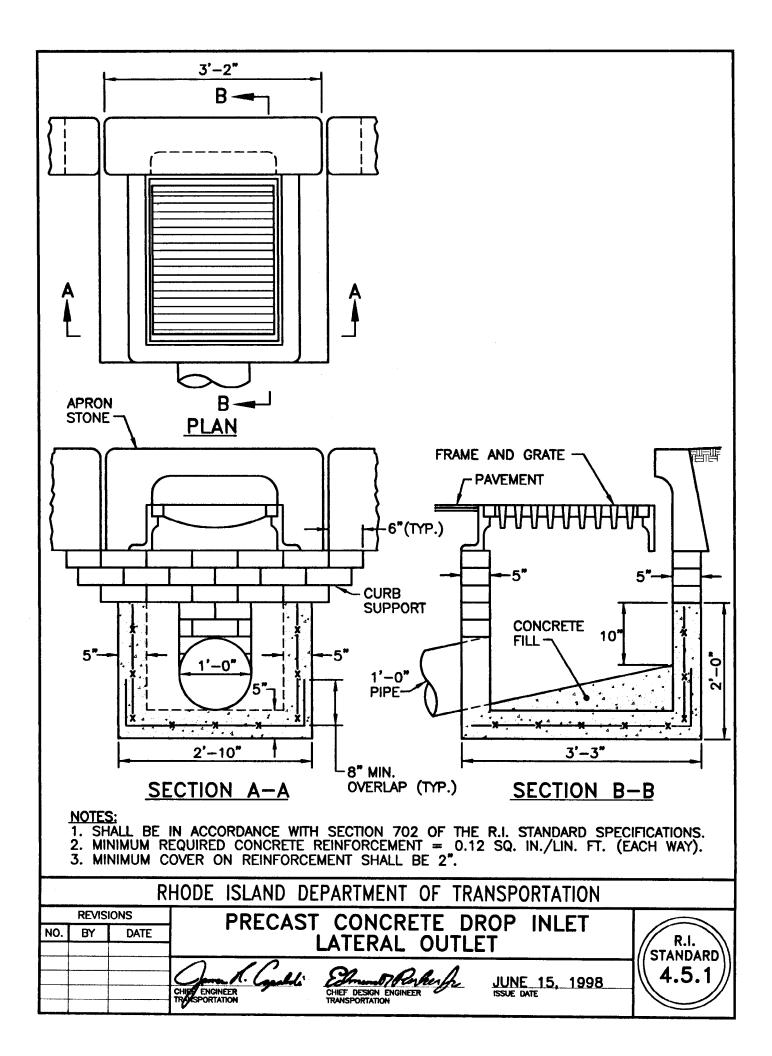


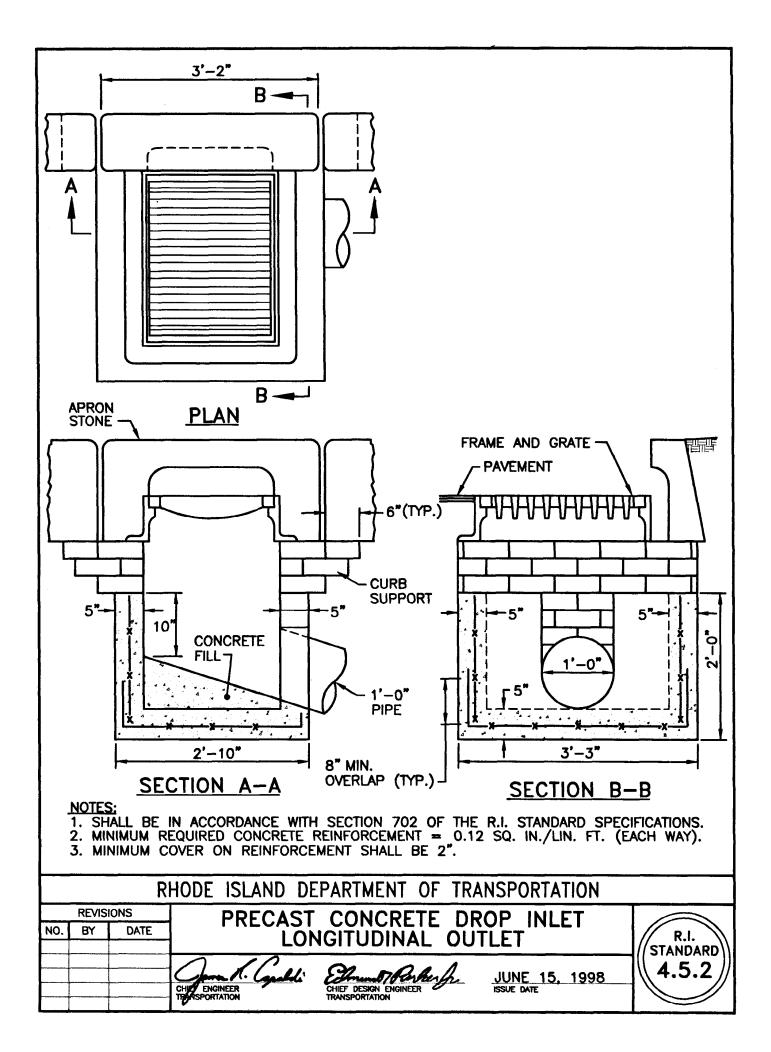


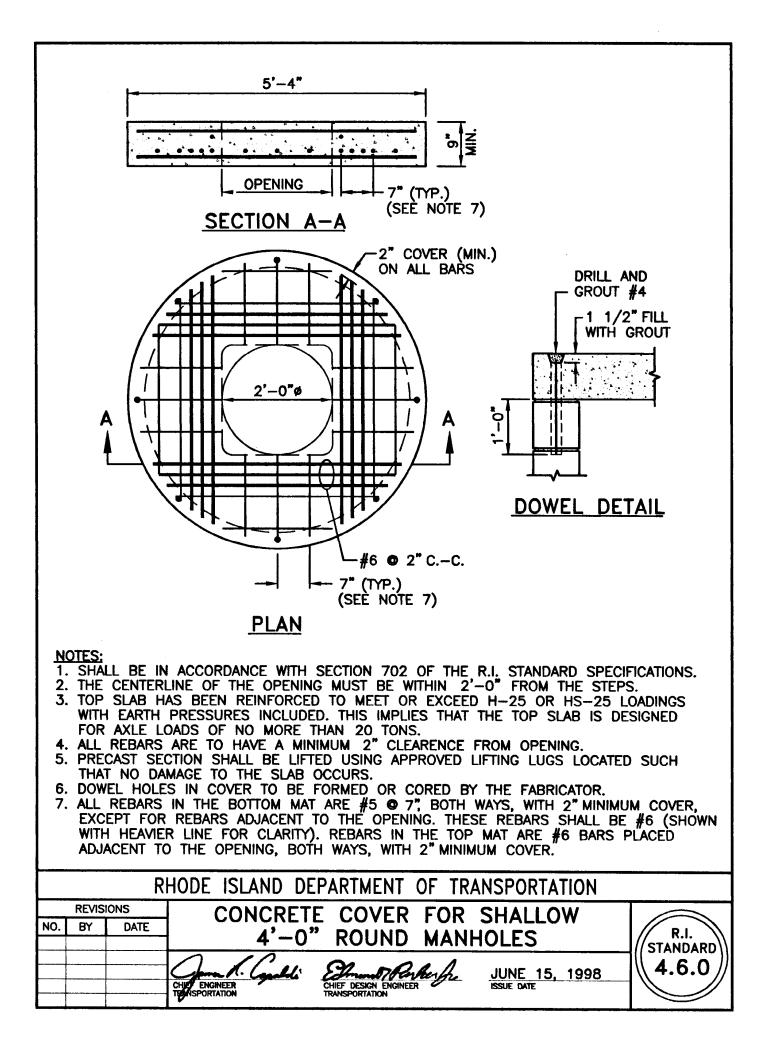


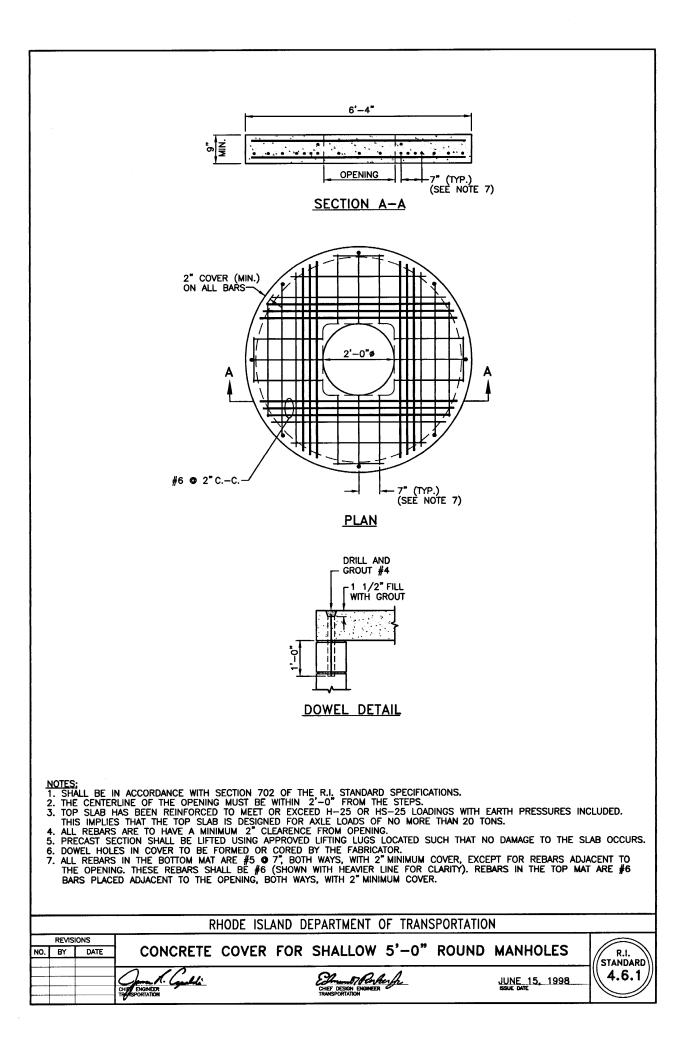


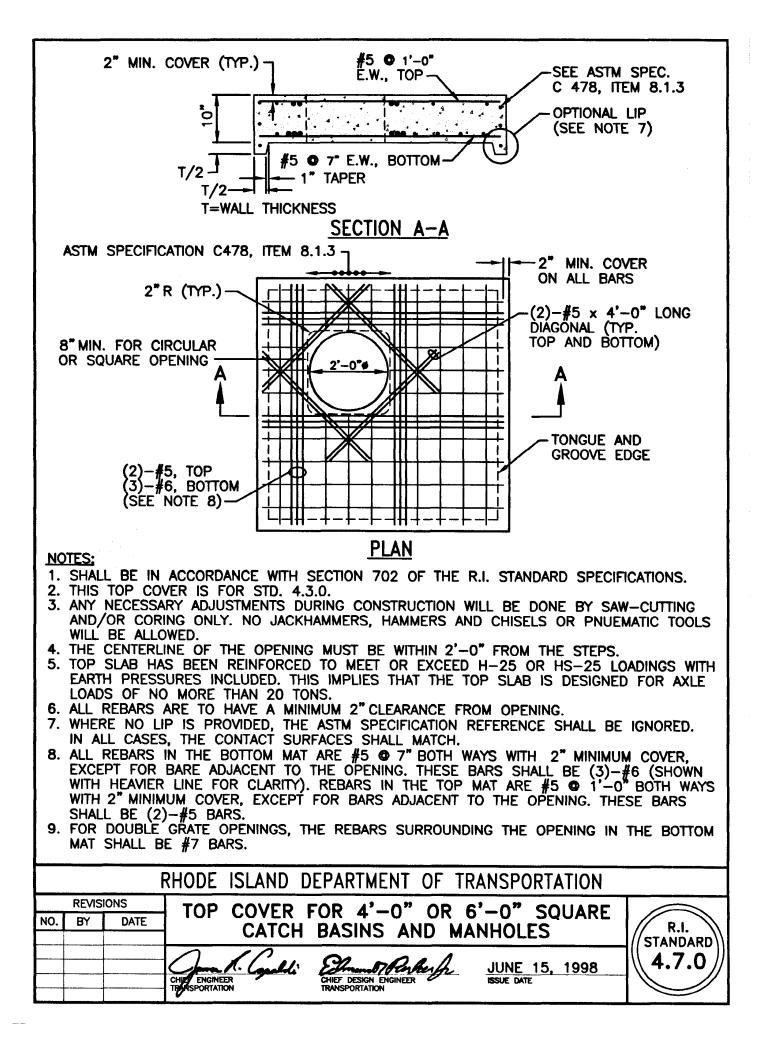


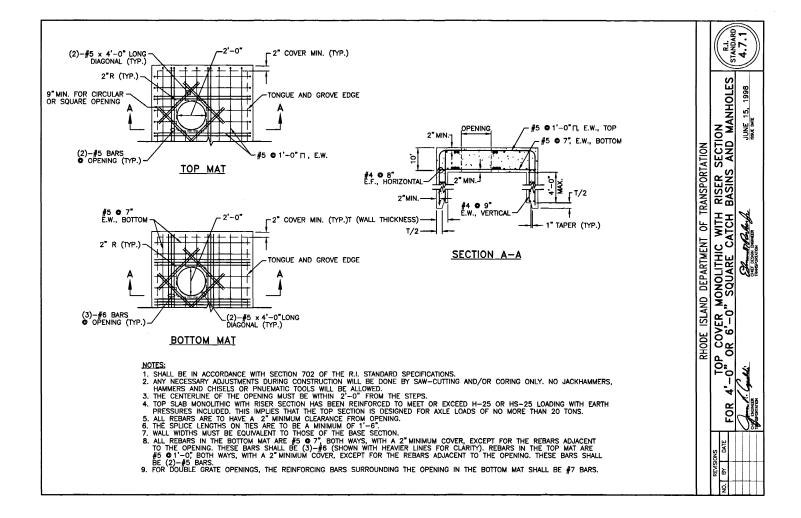


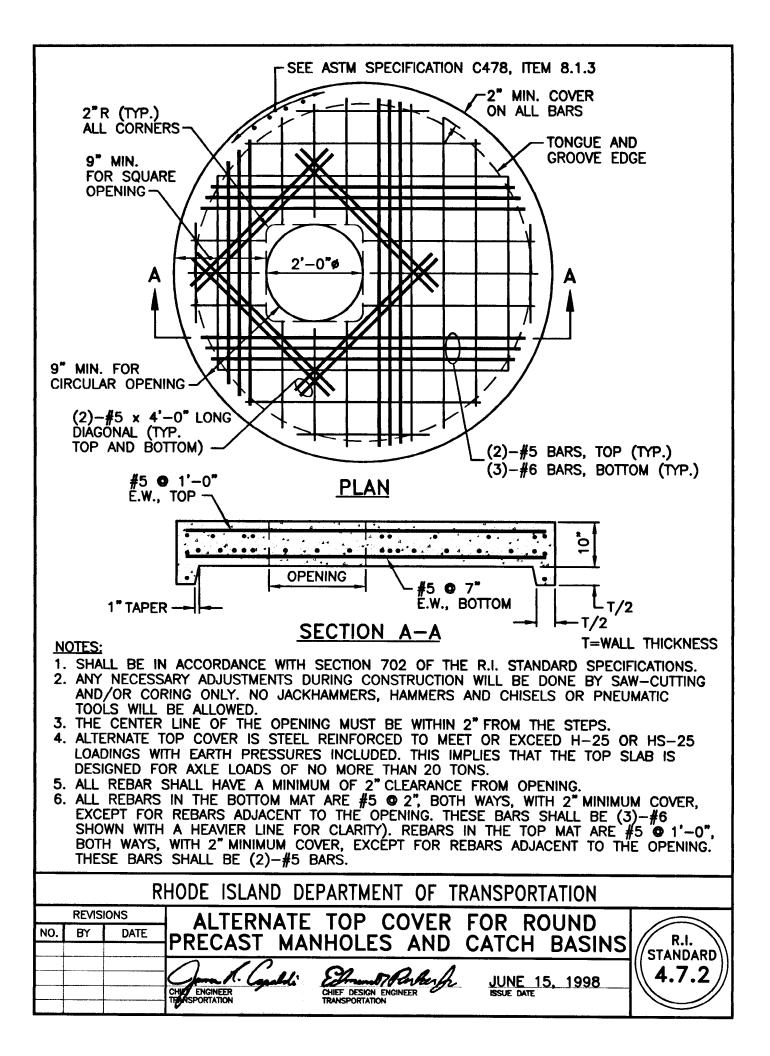


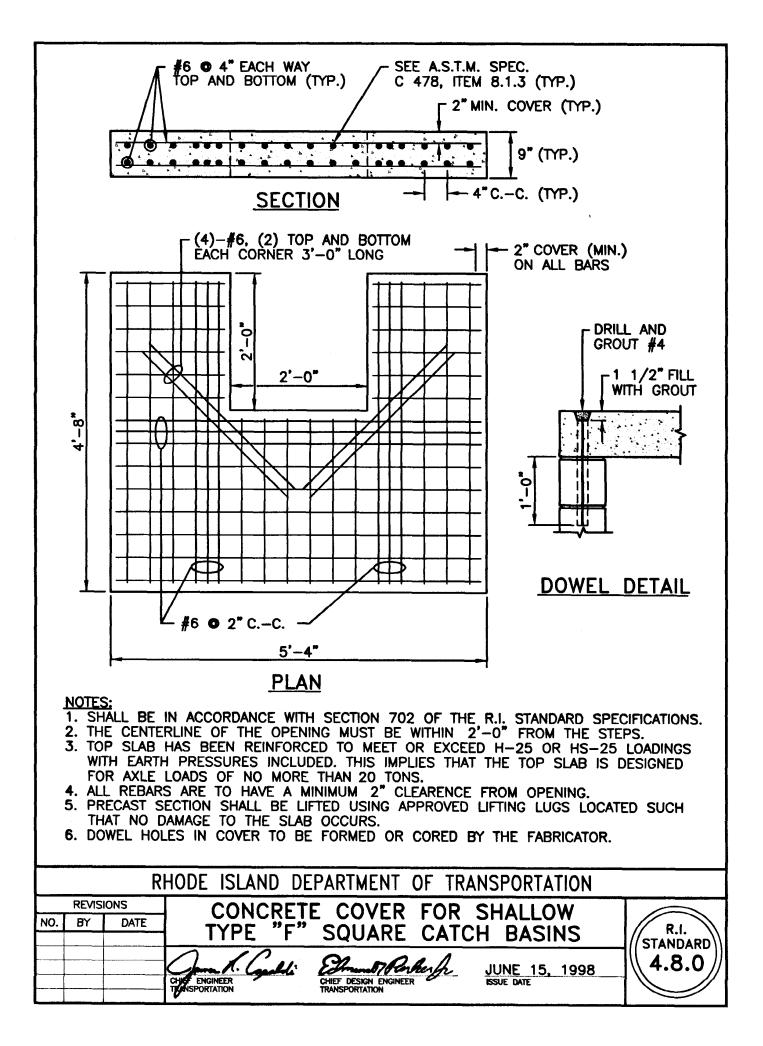


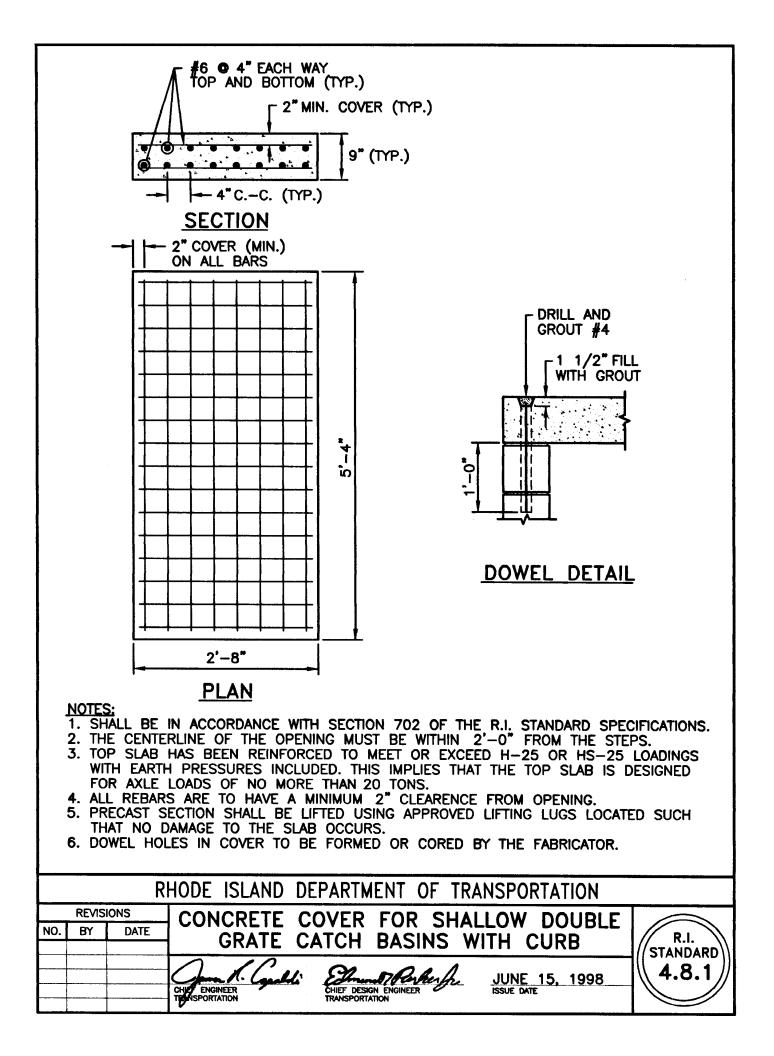


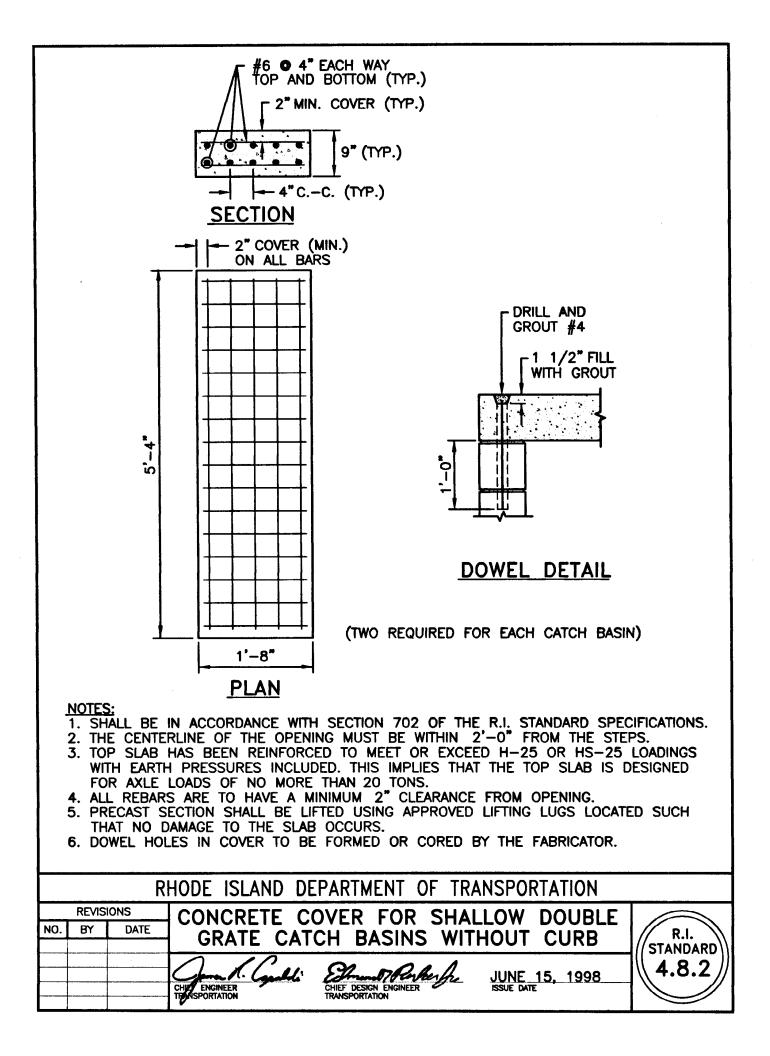


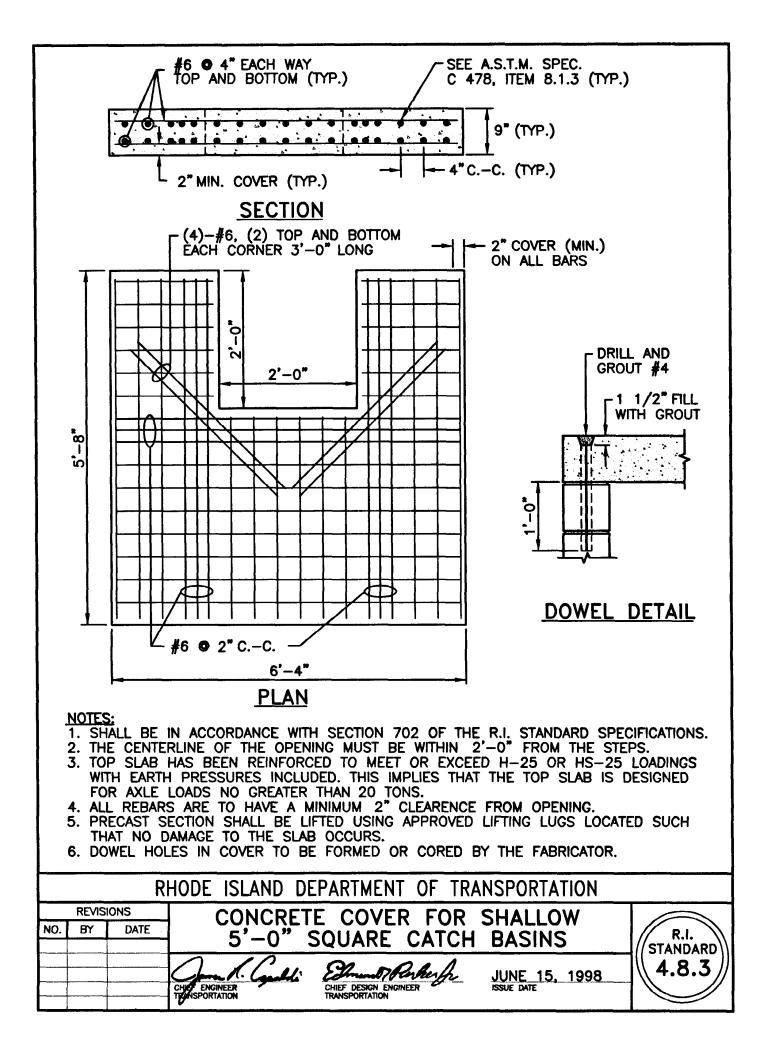


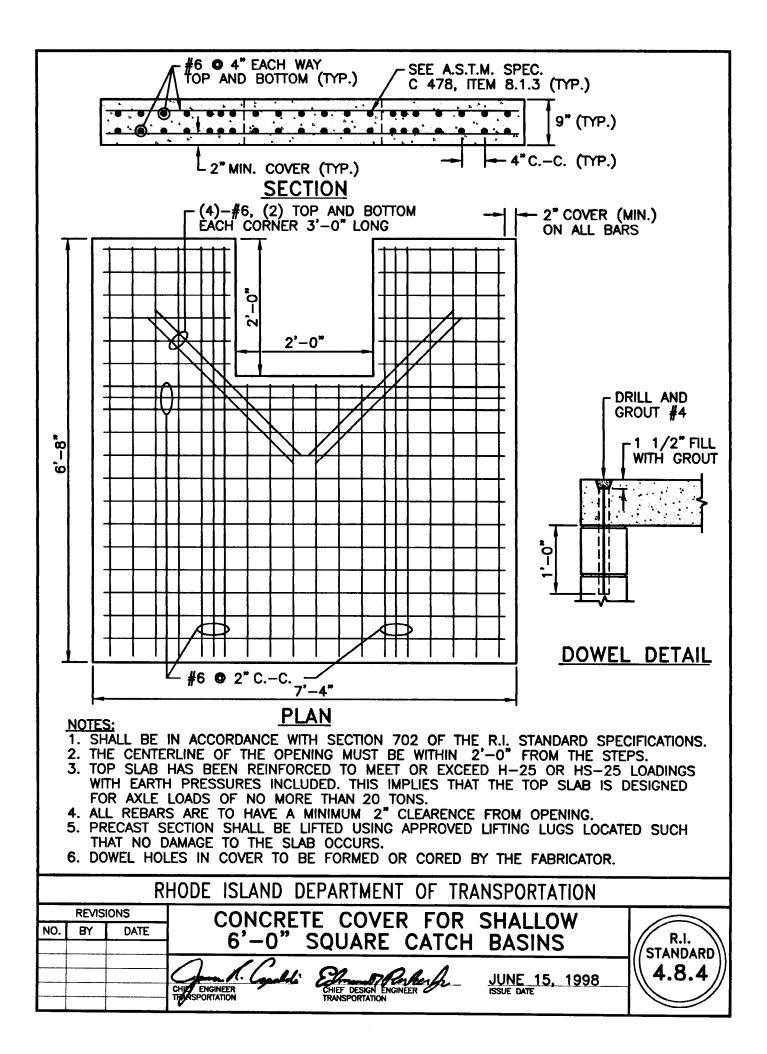


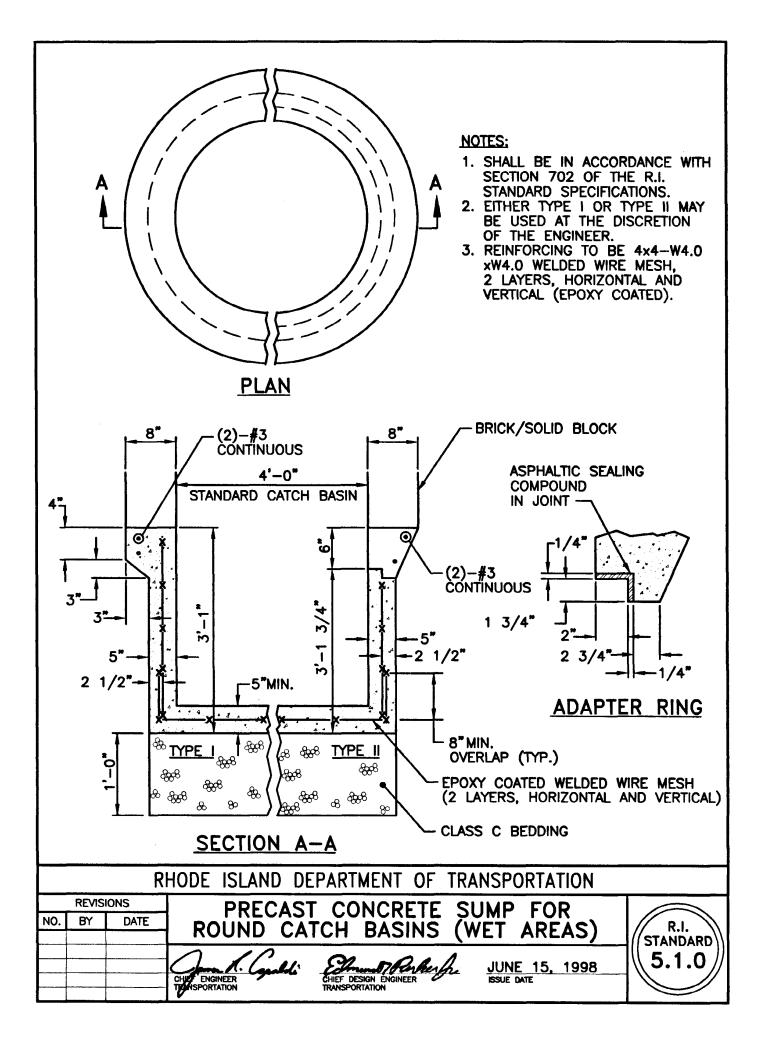




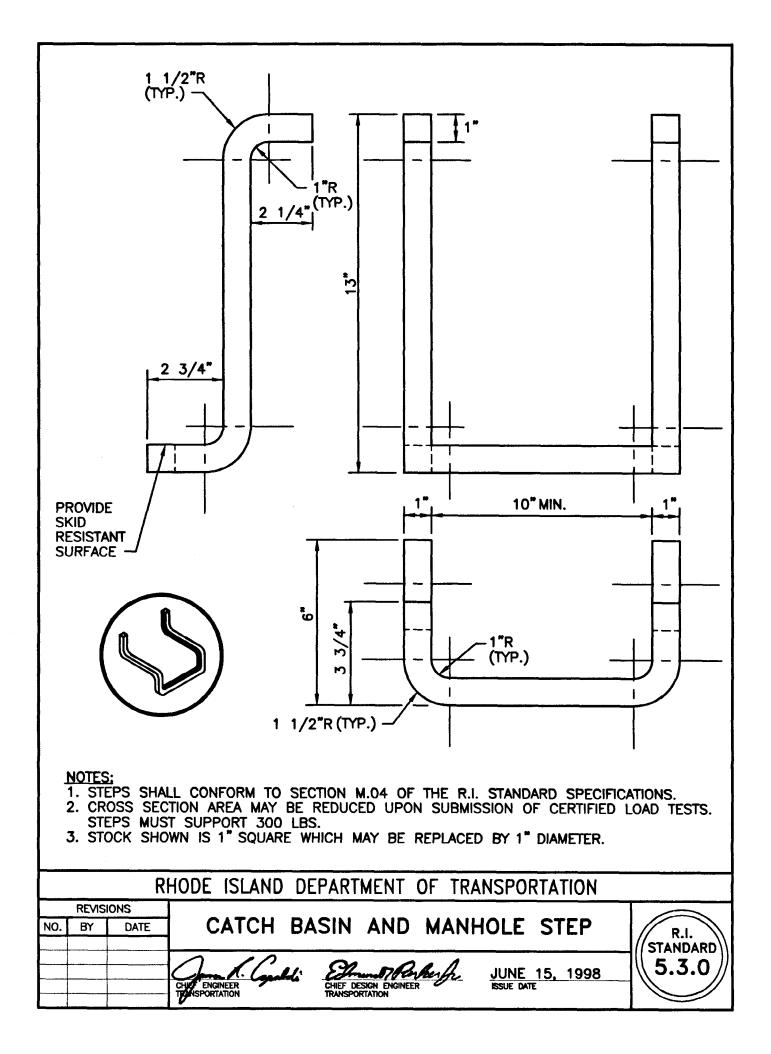


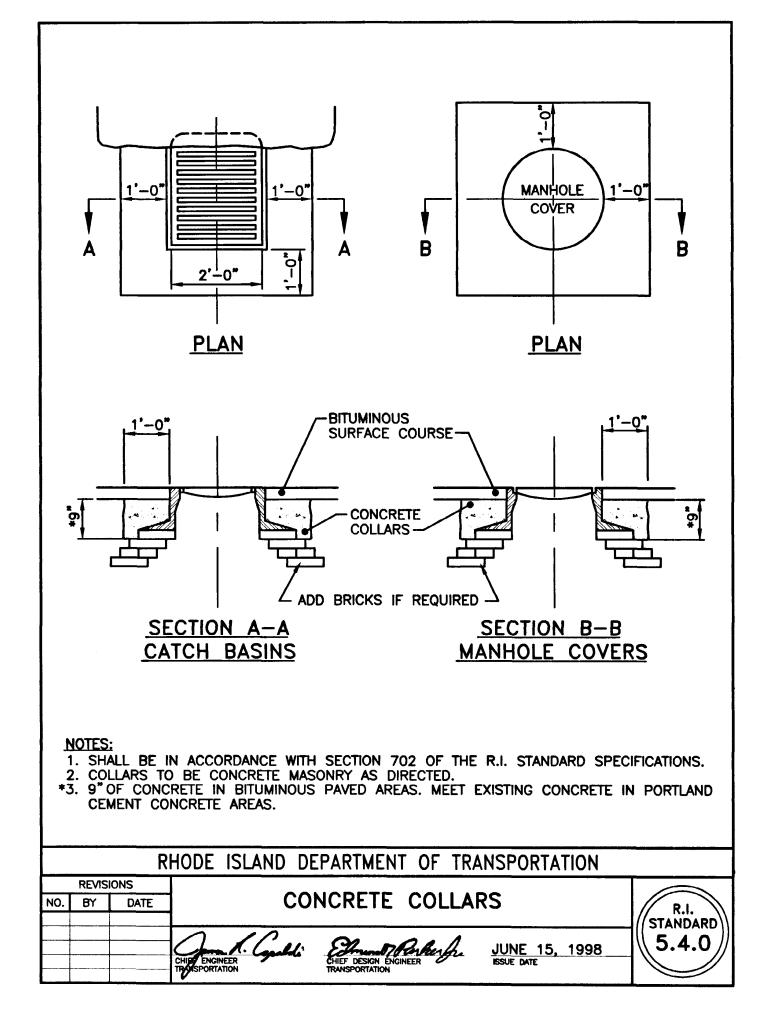


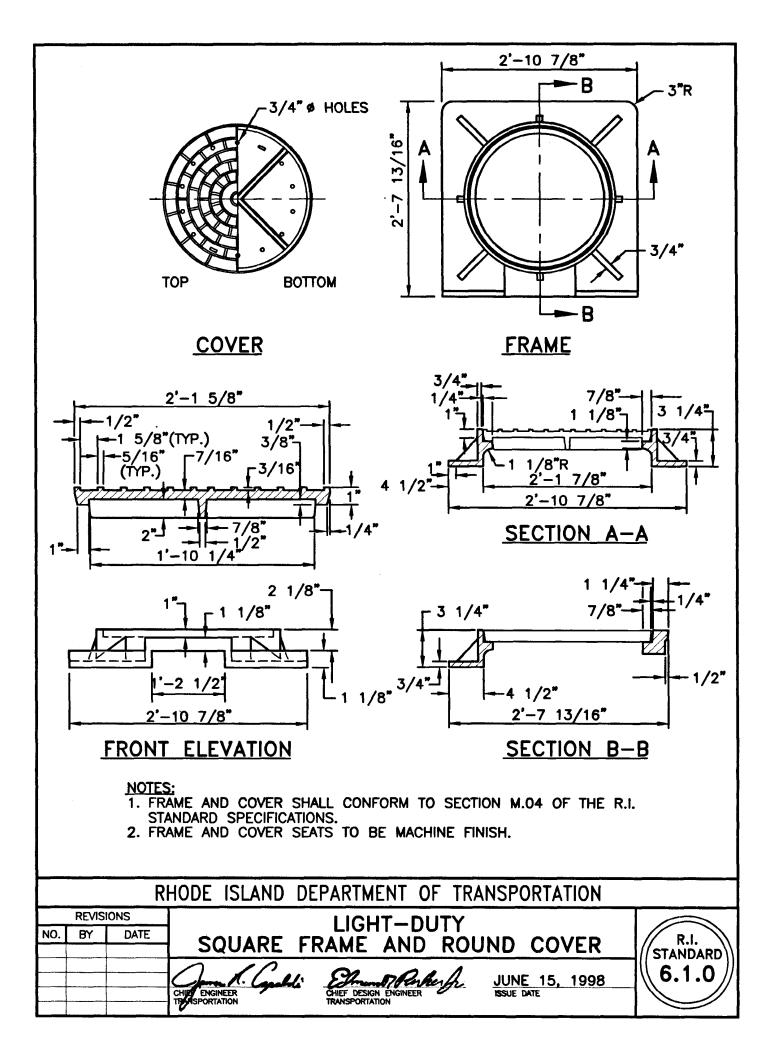


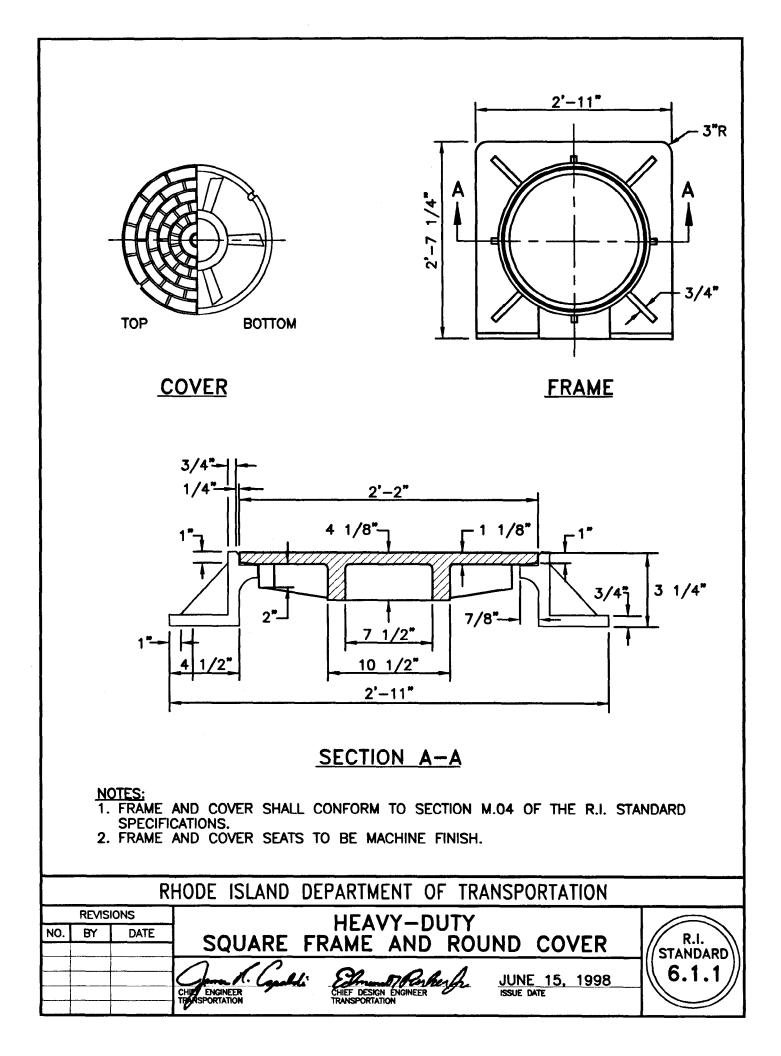


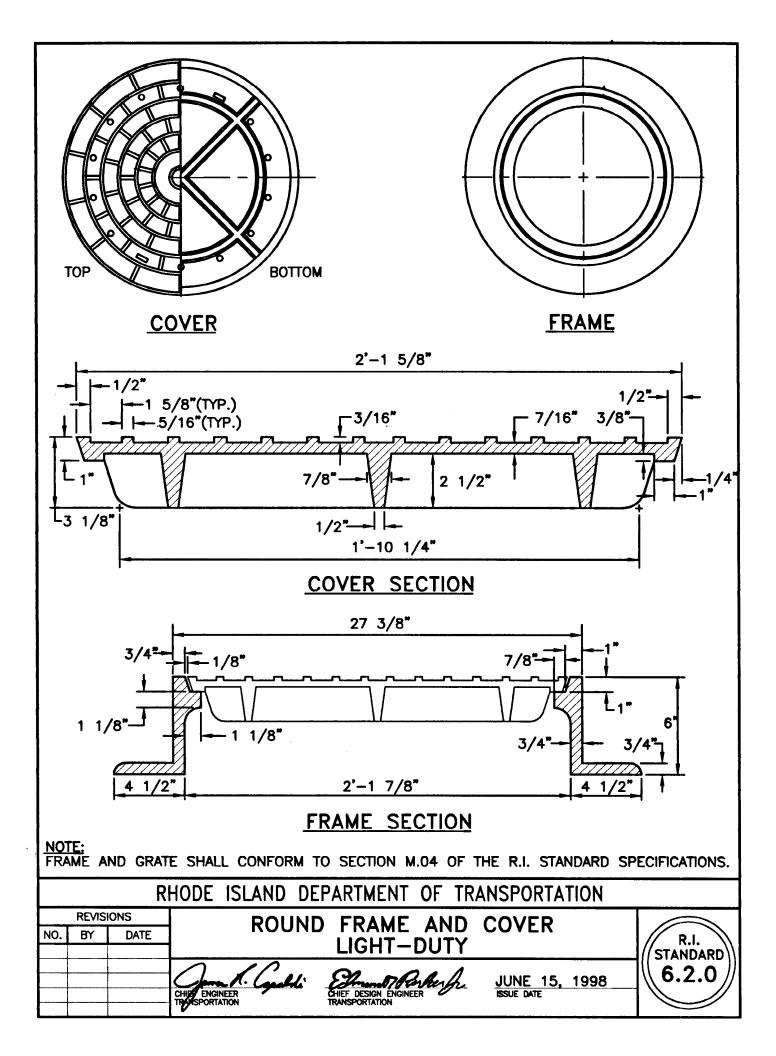
4 FT. MANHOLE OR CATCH BASIN 5 FT. MANHOLE OR CATCH BASIN 6 FT. MANHOLE OR CATCH BASIN MAX. PIPE O.D. STRAIGHT THRU TO 45' DEFLECTION 33 1/2" O.D. 27" R.C. PIPE 44" O.D. 36" R.C. PIPE 51" O.D. 42" R.C. PIPE MAX. PIPE O.D. 90' DEFLECTION 23" O.D. 18" R.C. PIPE 33 1/2" O.D. 27" R.C. PIPE 37" O.D. 30" R.C. PIPE NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS. 1. SHALL BE IN ACCORDANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6". THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND ENTRY ANGLE. (SEE TABLE ABOVE.)	CROSS SECTION OF MANHOLE OR CATCH BASIN				
STRAIGHT THRU 33 1/2" O.D. 44" O.D. 51" O.D. TO 45" DEFLECTION 27" R.C. PIPE 36" R.C. PIPE 42" R.C. PIPE MAX. PIPE O.D. 23" O.D. 33 1/2" O.D. 33 1/2" O.D. 37" O.D. 90" DEFLECTION 18" R.C. PIPE 27" R.C. PIPE 30" R.C. PIPE 30" R.C. PIPE NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS. 2. THE MINIMUM DISTANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6". THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND					
90° DEFLECTION 18" R.C. PIPE 27" R.C. PIPE 30" R.C. PIPE <u>NOTE:</u> 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS. 2. THE MINIMUM DISTANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6". THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND	STRAIGHT THRU	33 1/2" O.D. 27" R.C. PIPE	44" O.D. 36" R.C. PIPE		
 SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS. THE MINIMUM DISTANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6". THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND 			33 1/2" O.D. 27" R.C. PIPE		
RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS ROUND MANHOLES AND CATCH BASINS NO. BY DATE MAXIMUM PIPE SIZE STANDARD					

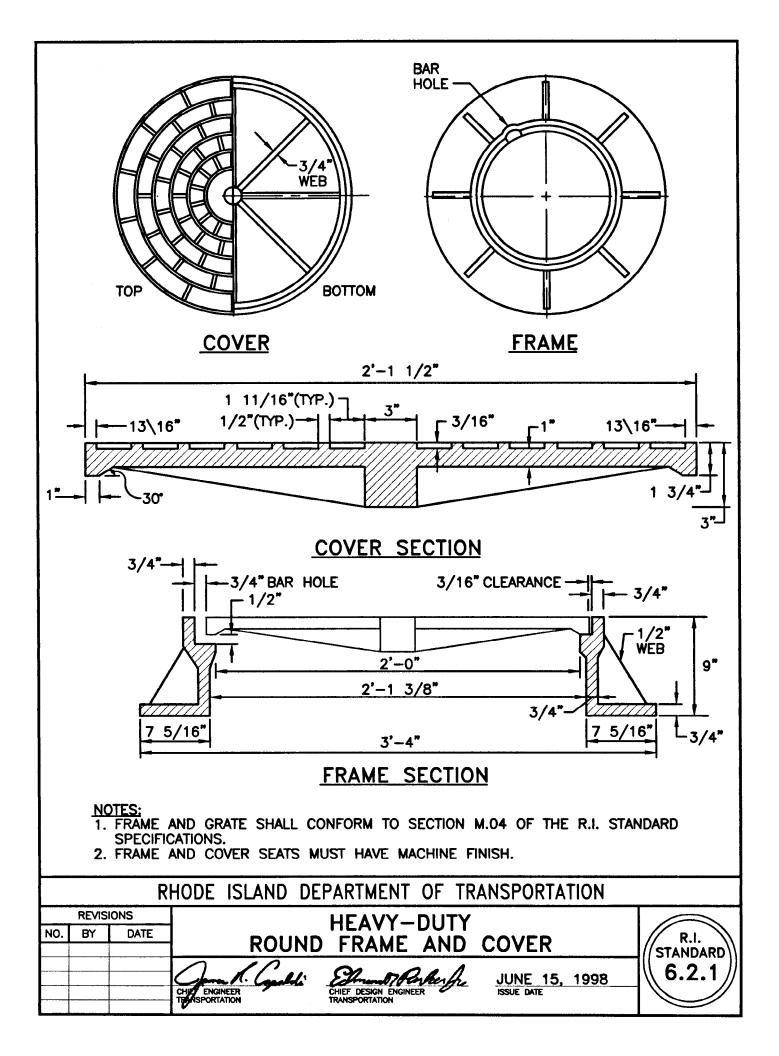


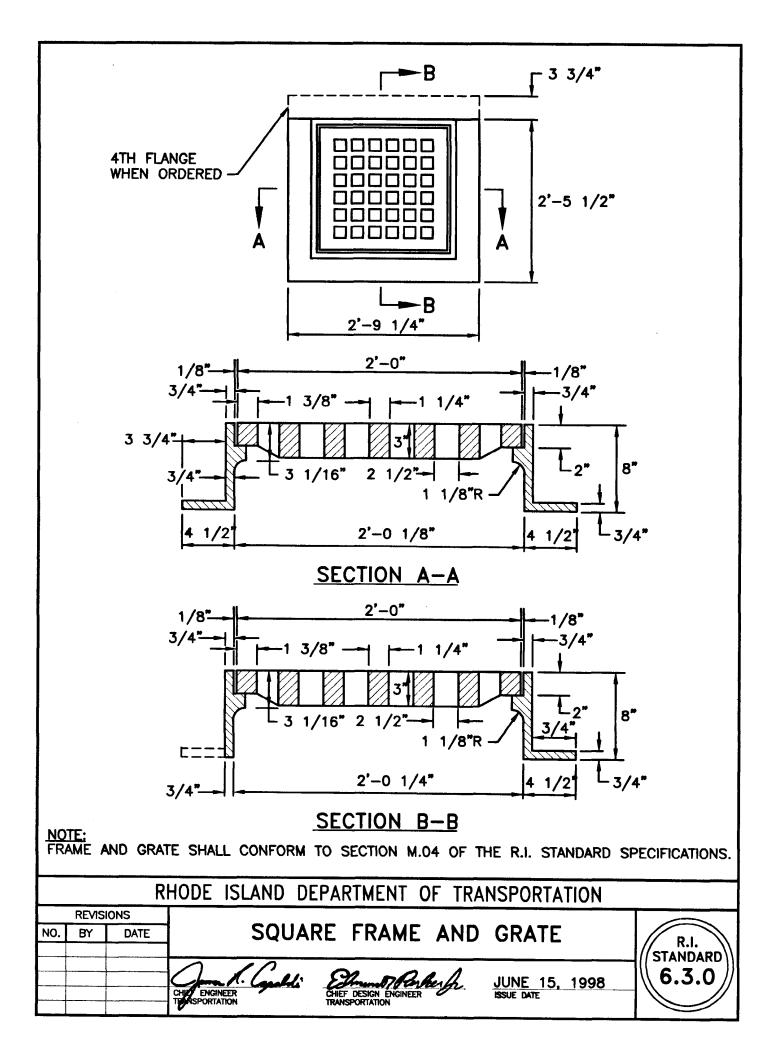


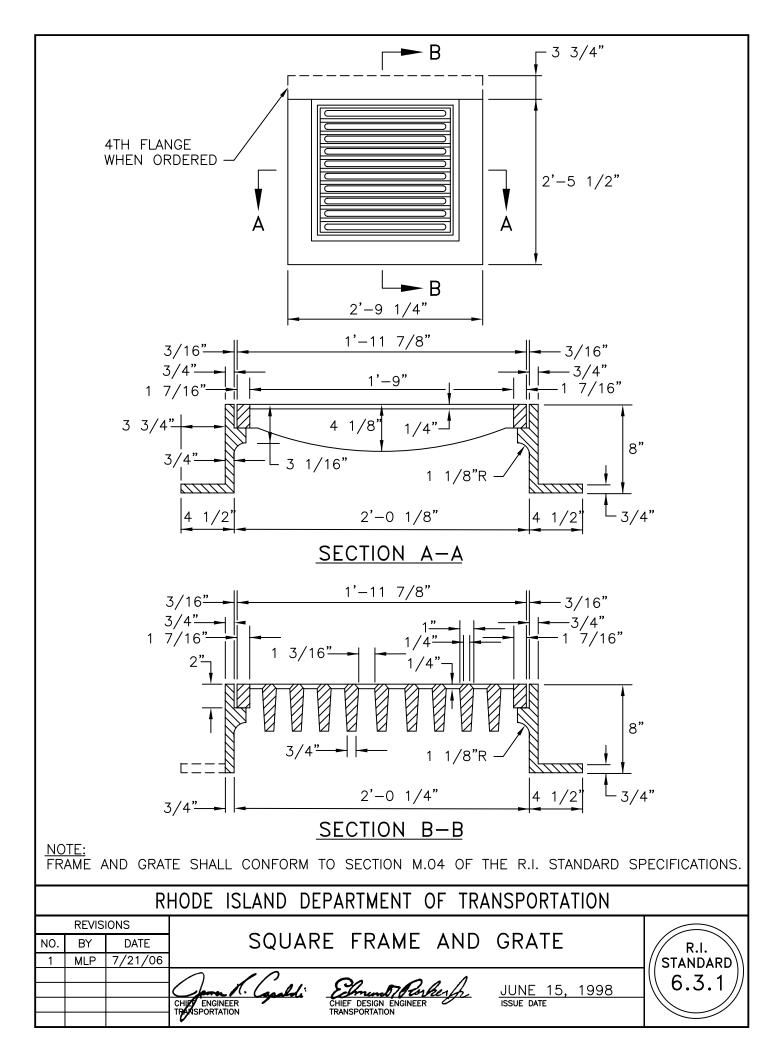


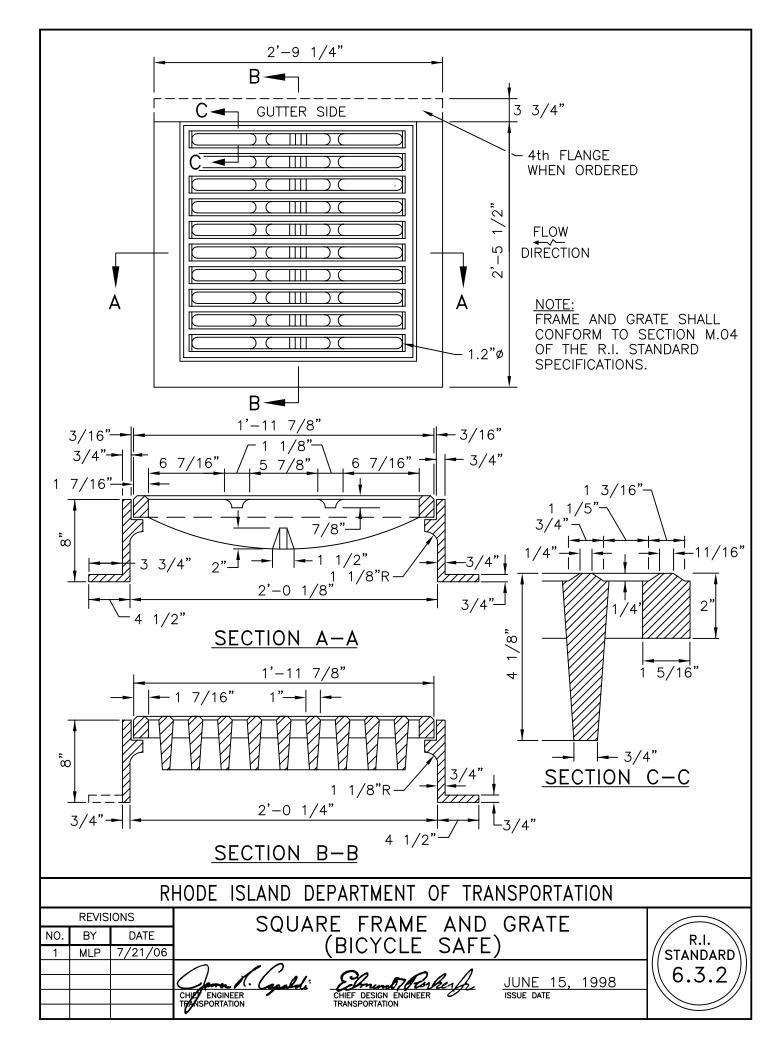


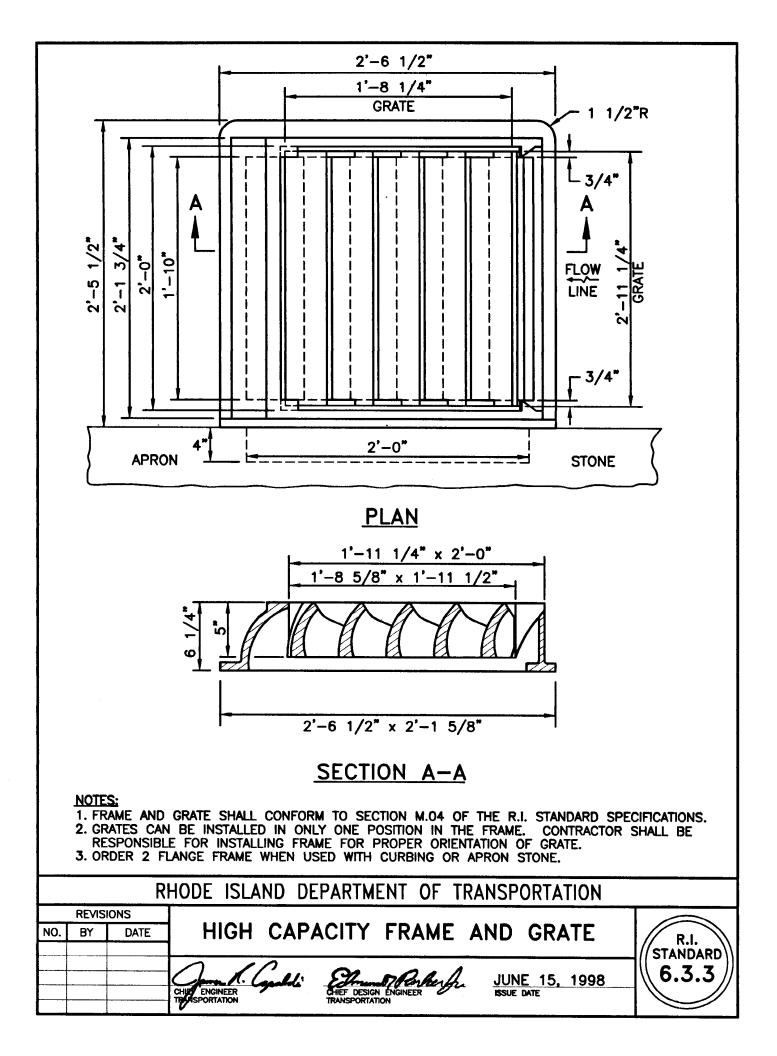


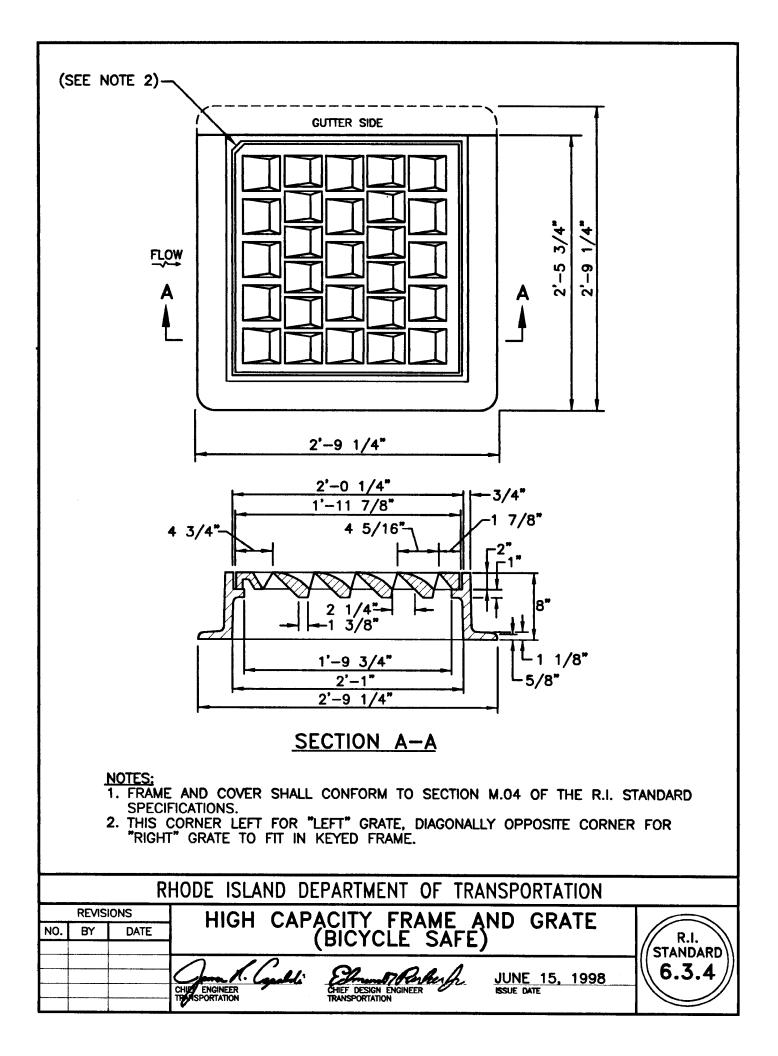


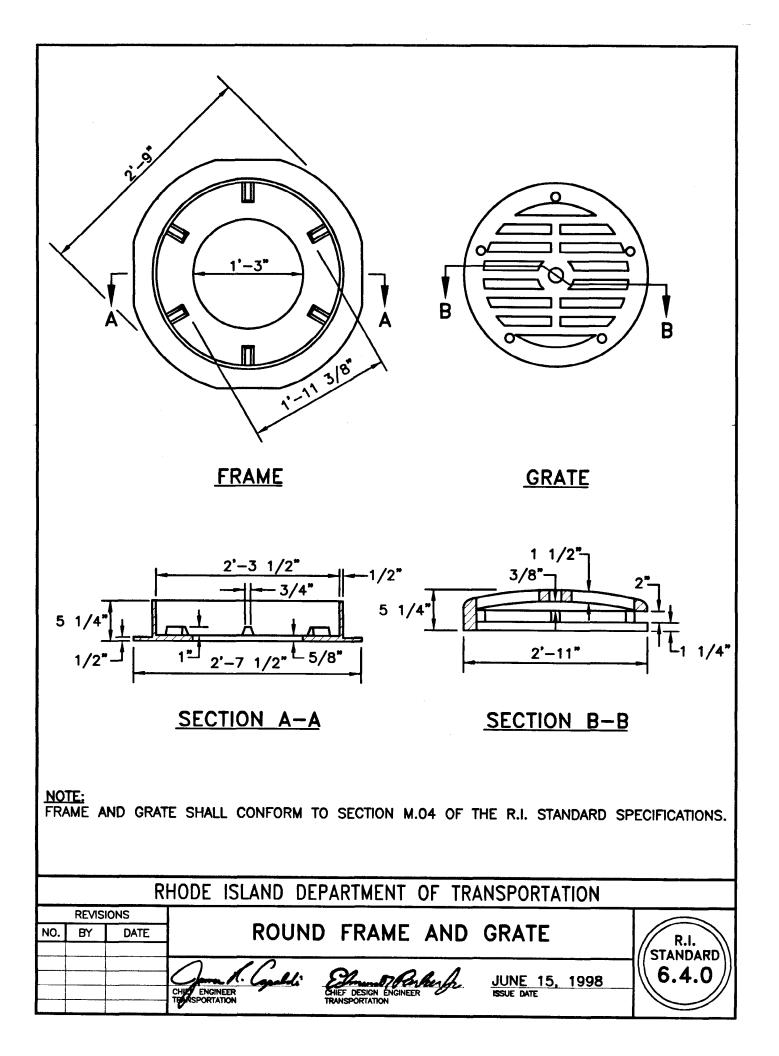


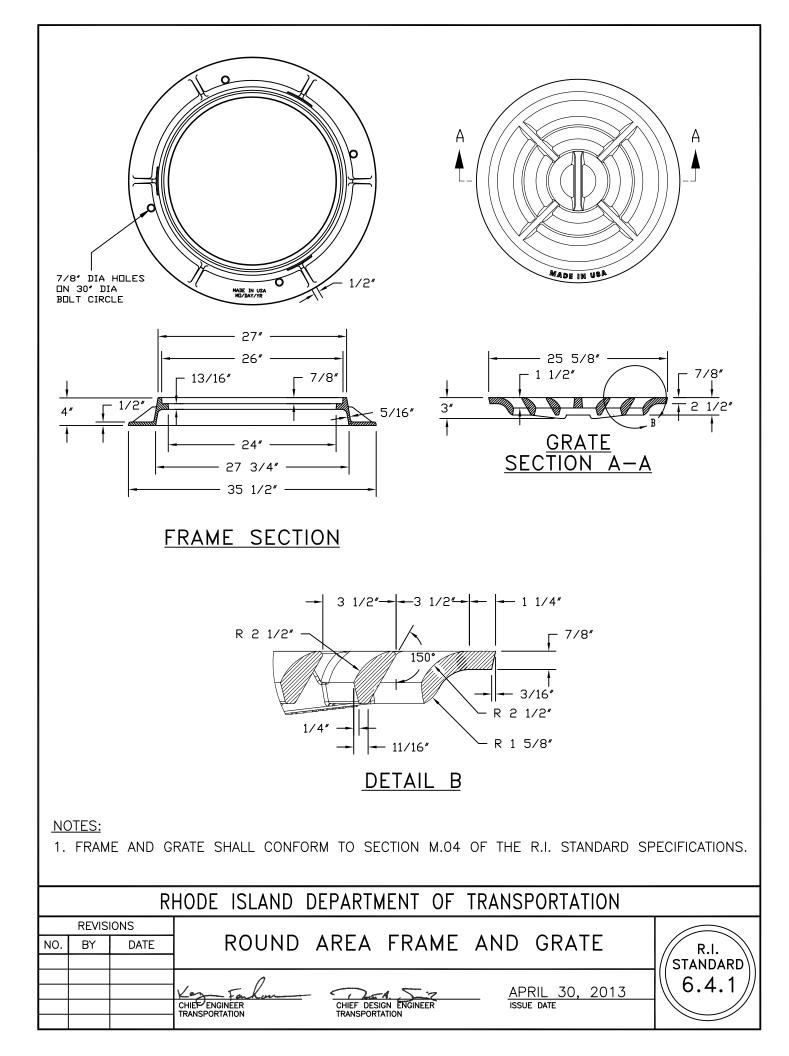


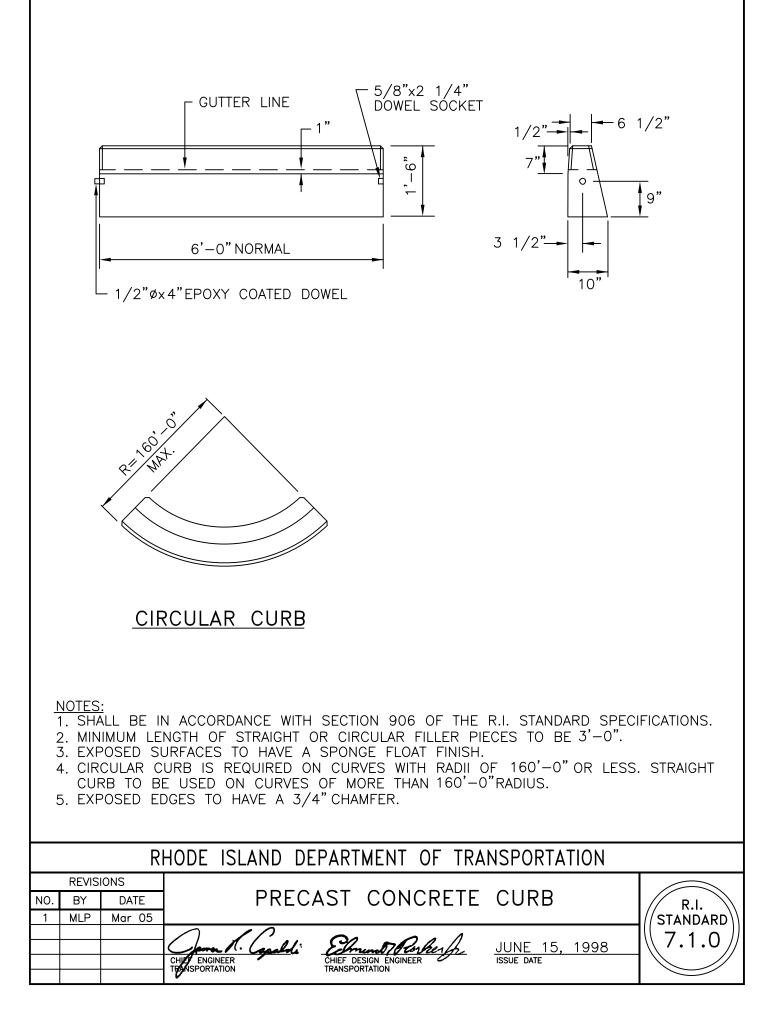


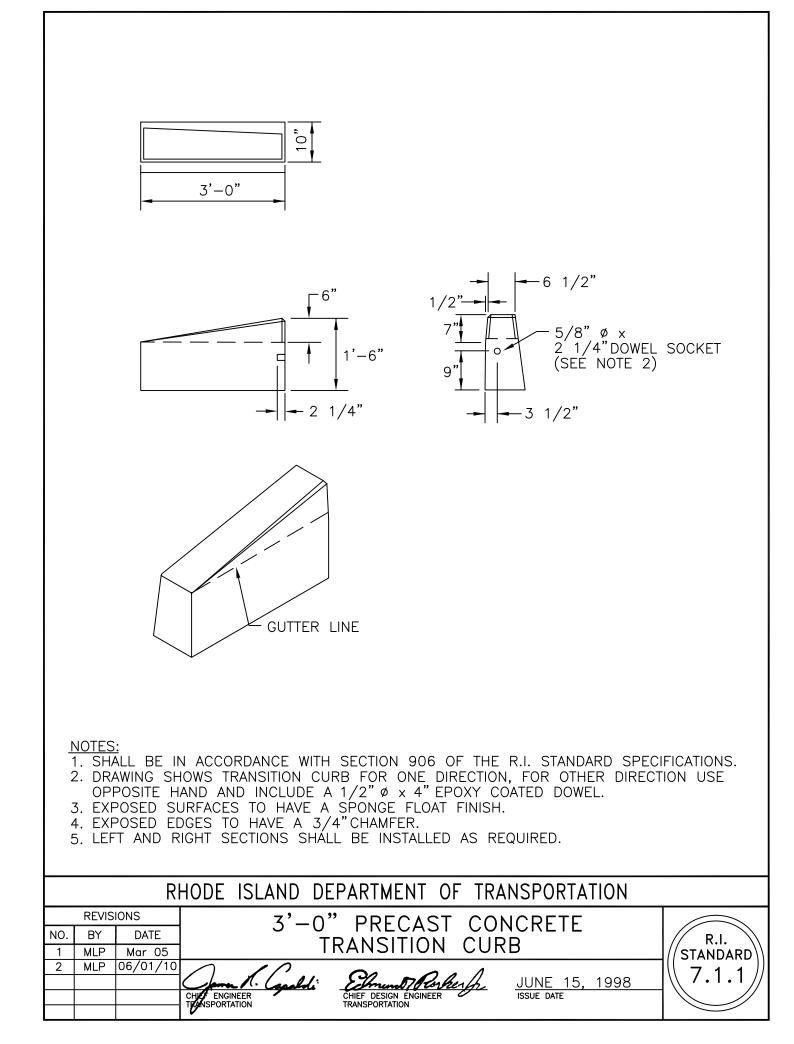


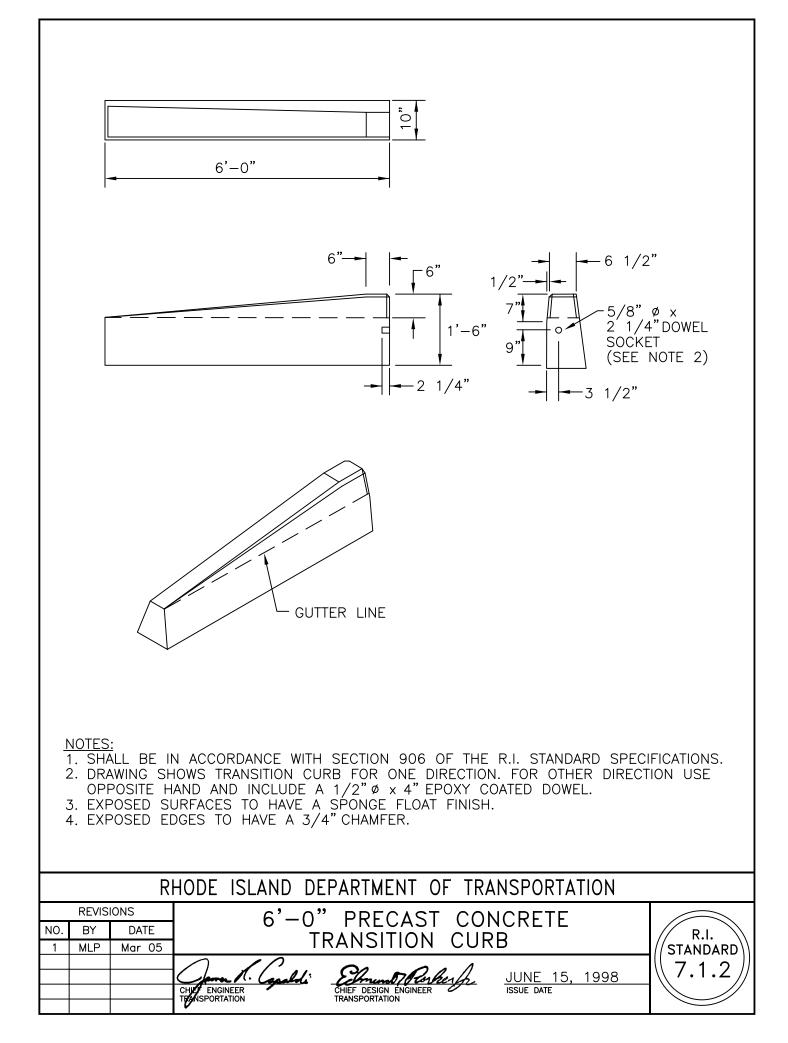


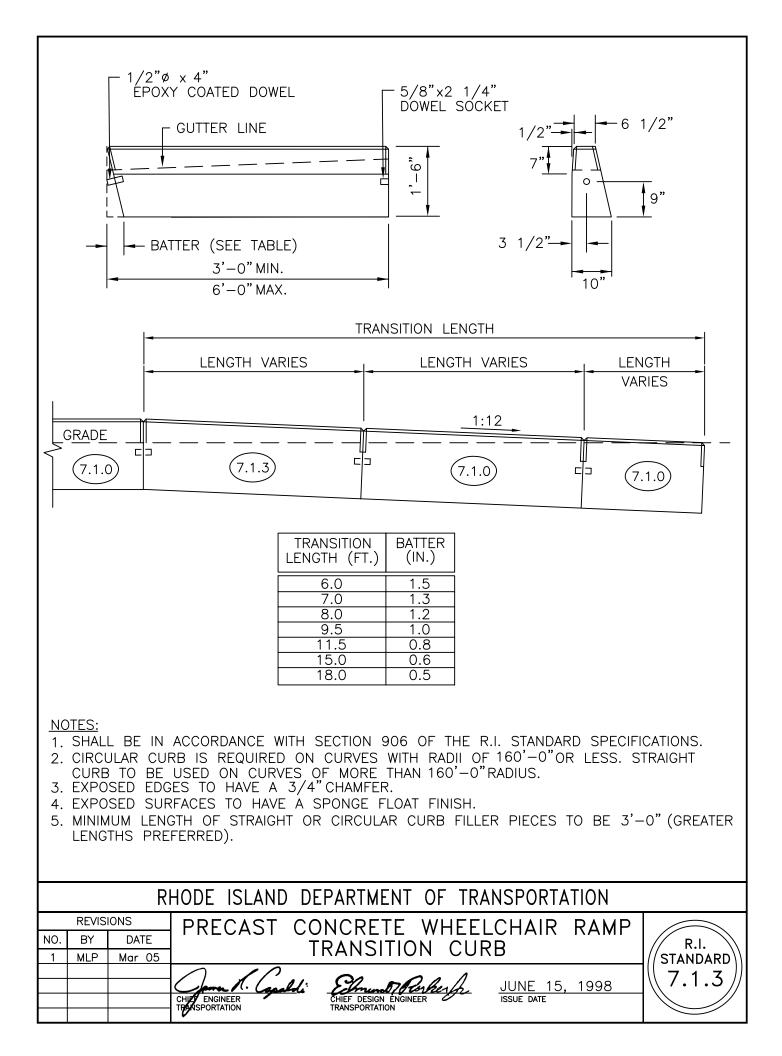


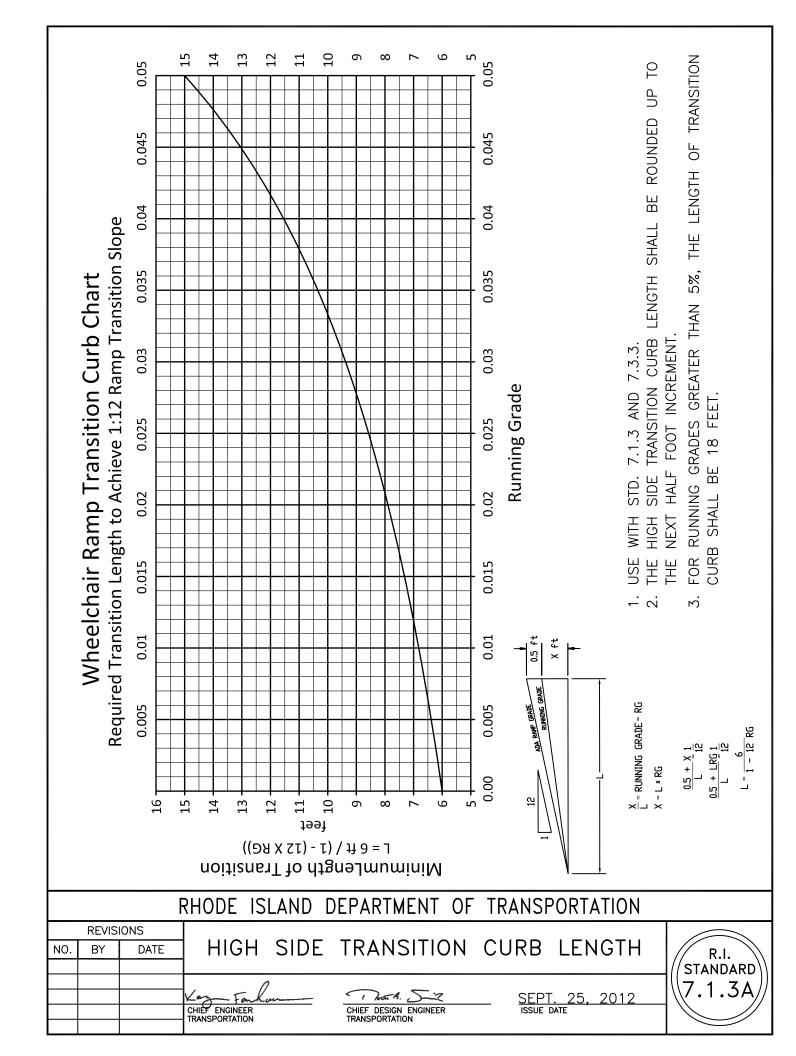


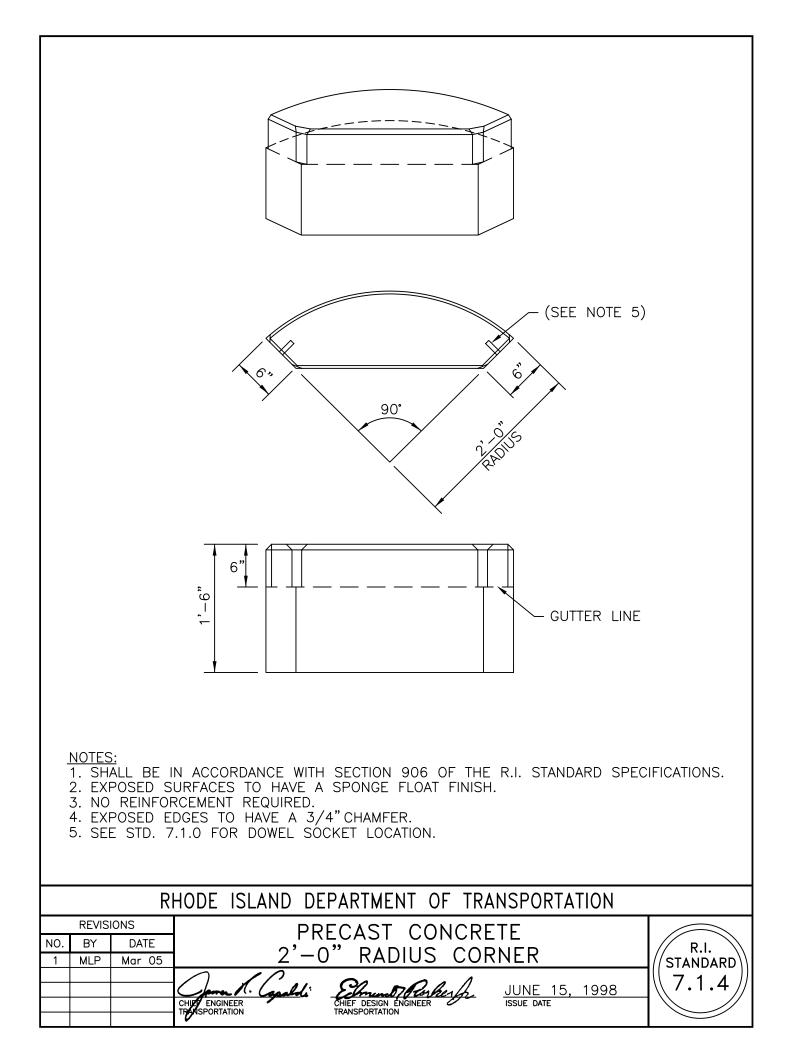


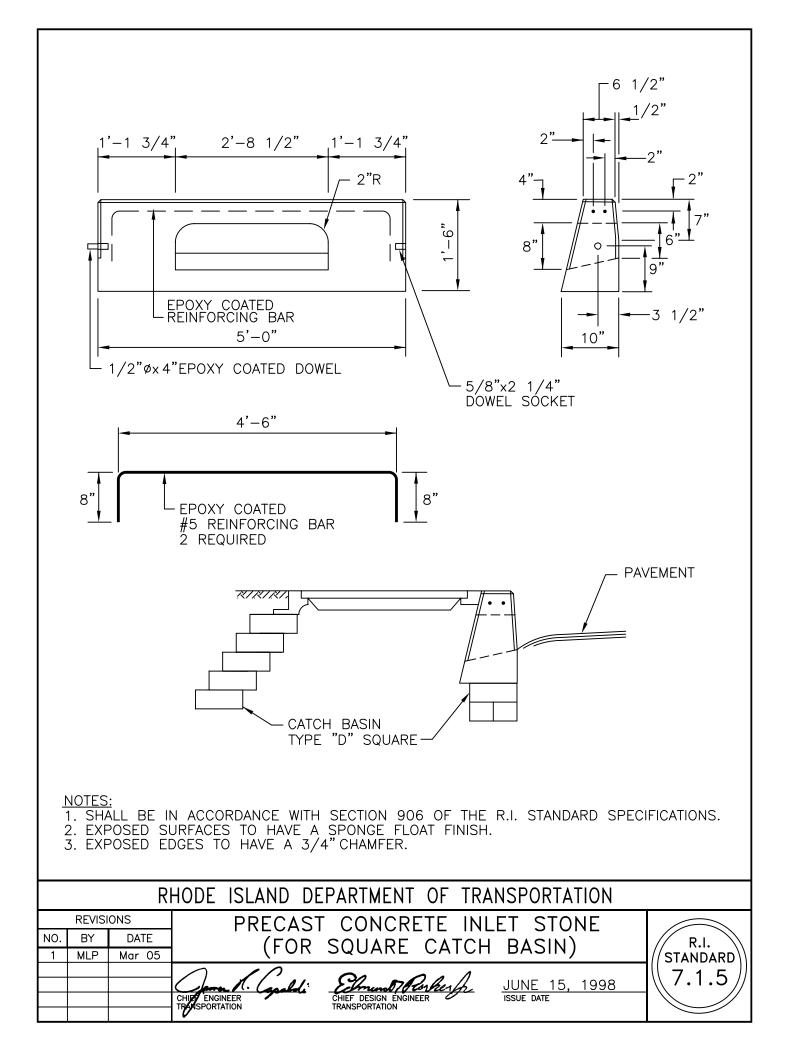


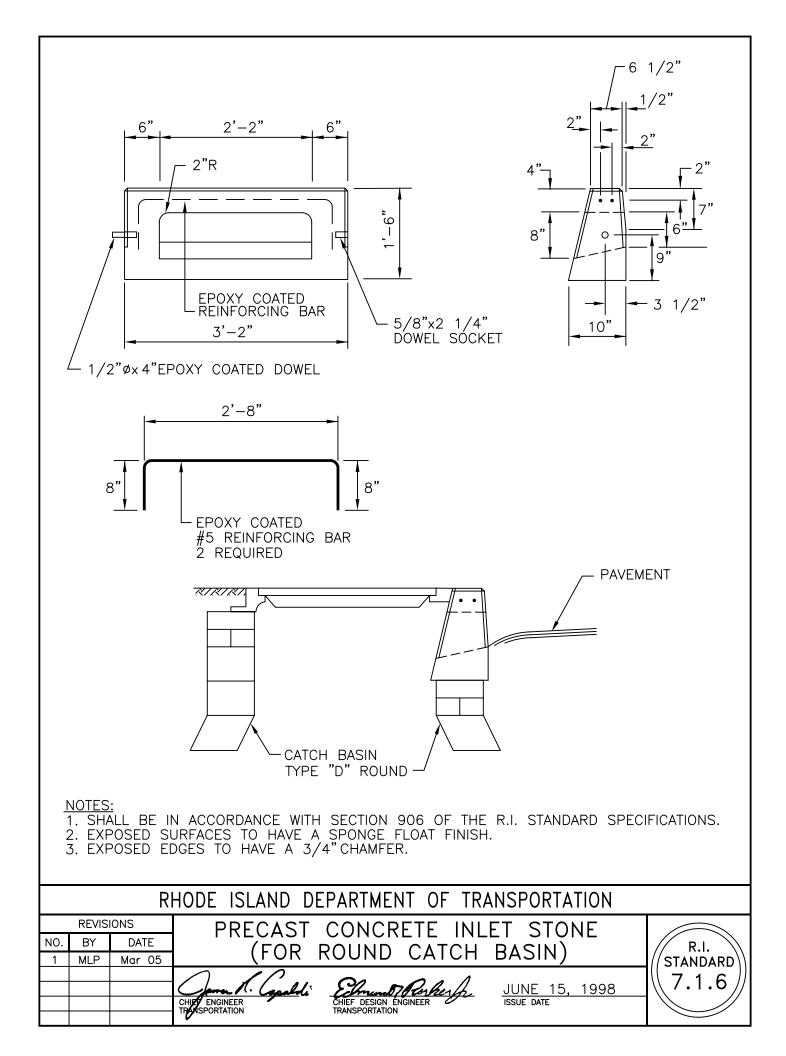


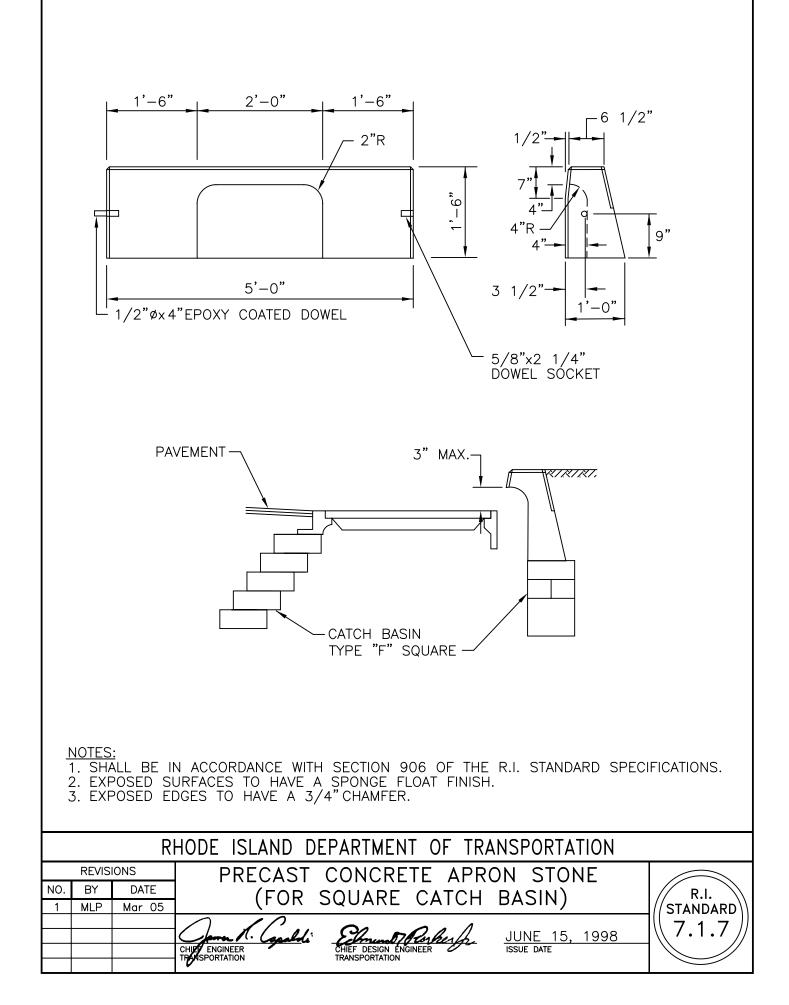


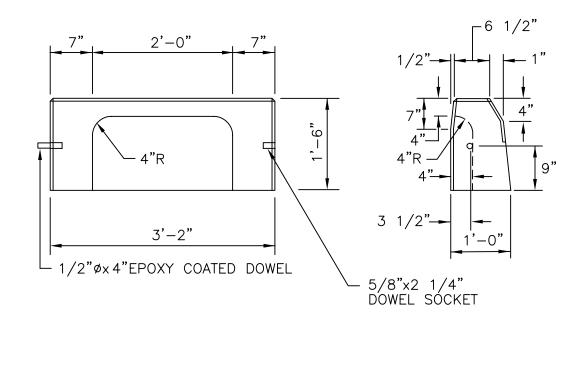


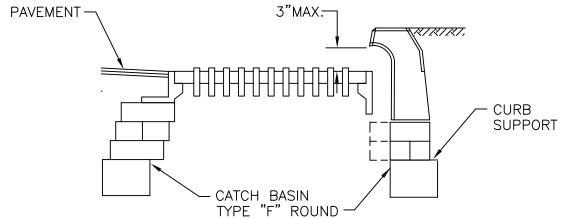






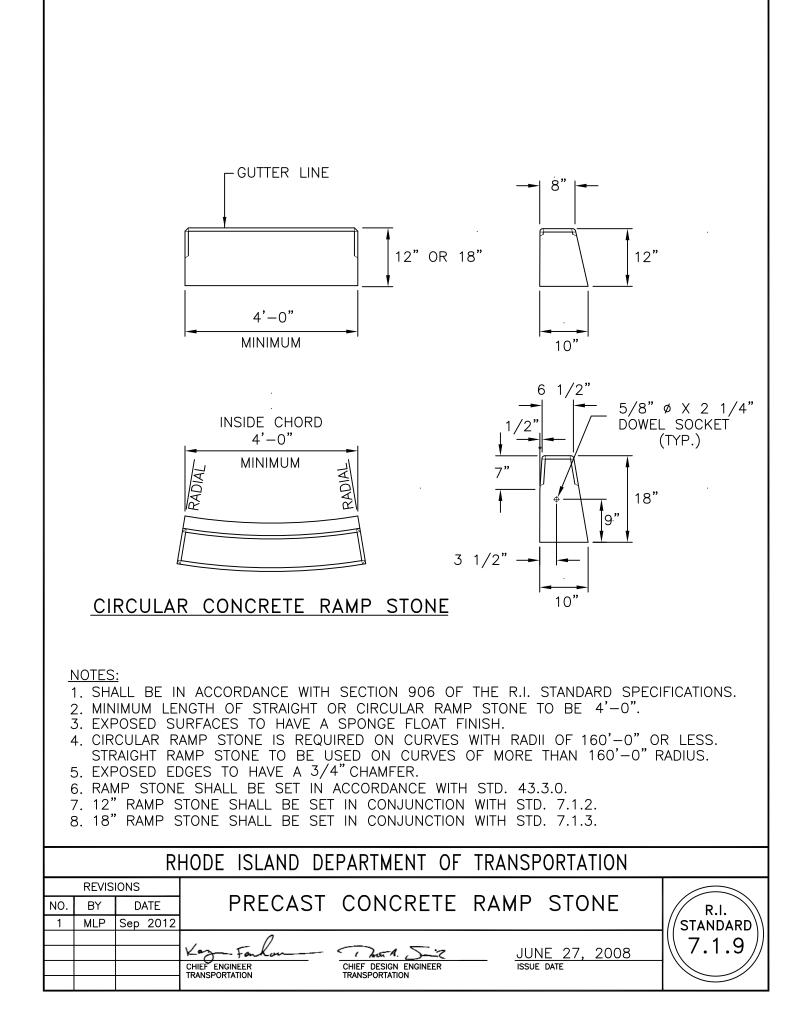




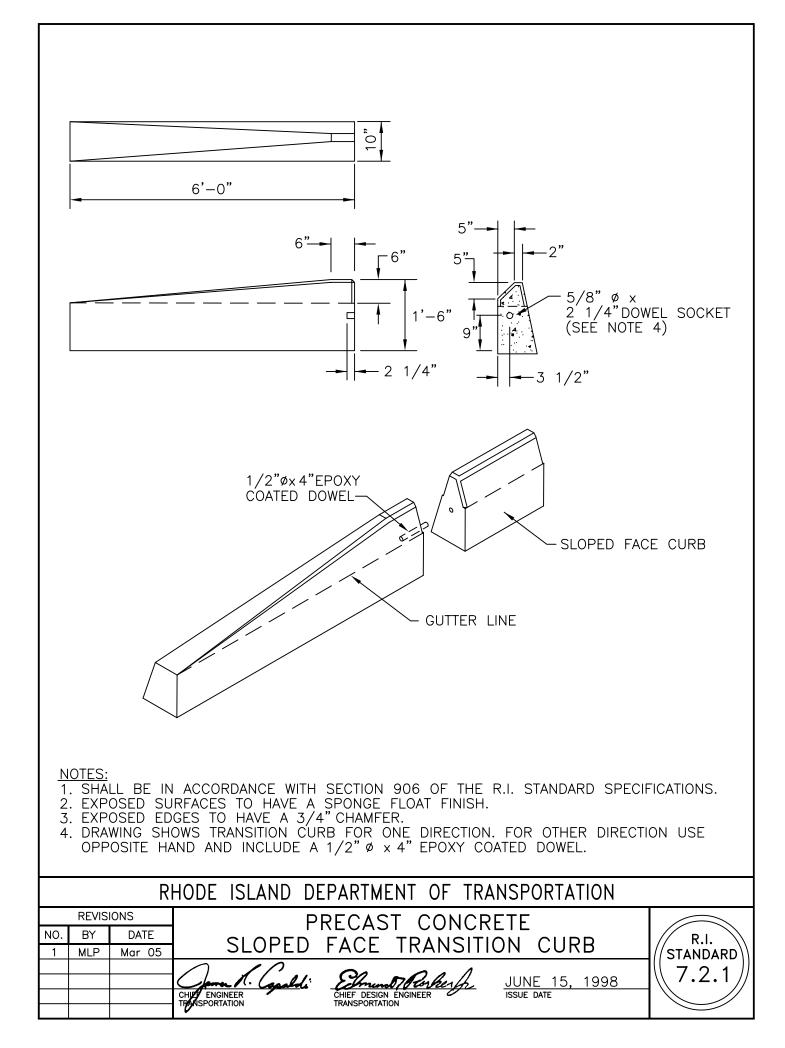


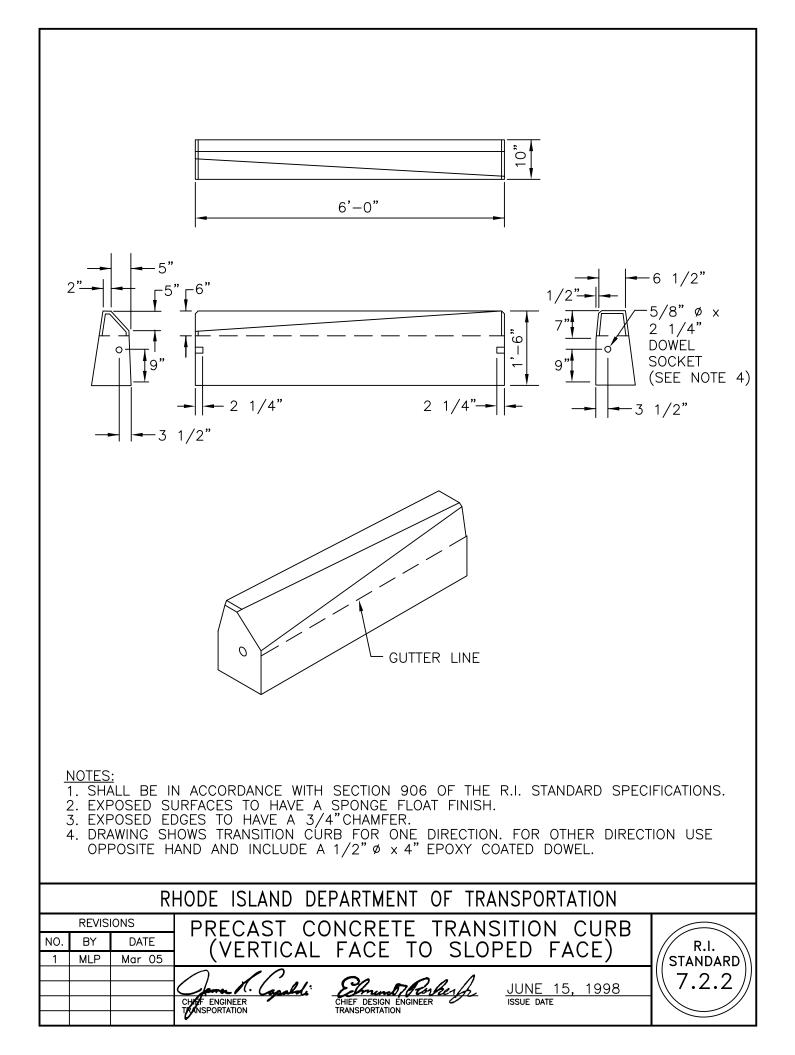
- NOTES: 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS. 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH. 3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

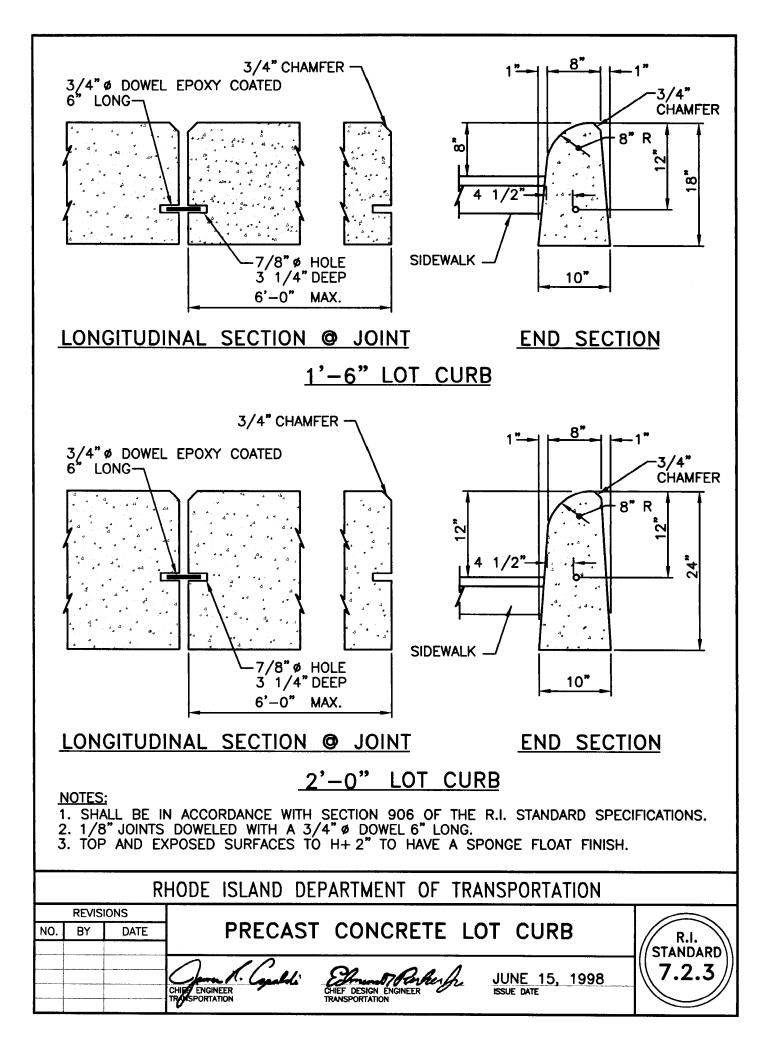
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	PRECAST CONCRETE APRON STONE	
NO.	BY	DATE	(FOR ROUND CATCH BASIN)	R.I.
1	MLP	Mar 05	(FOR ROUND CATCH BASIN)	//STANDARD
				\\ 7.1.8 //
			CHILL ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998	
			TRANSPORTATION TRANSPORTATION	

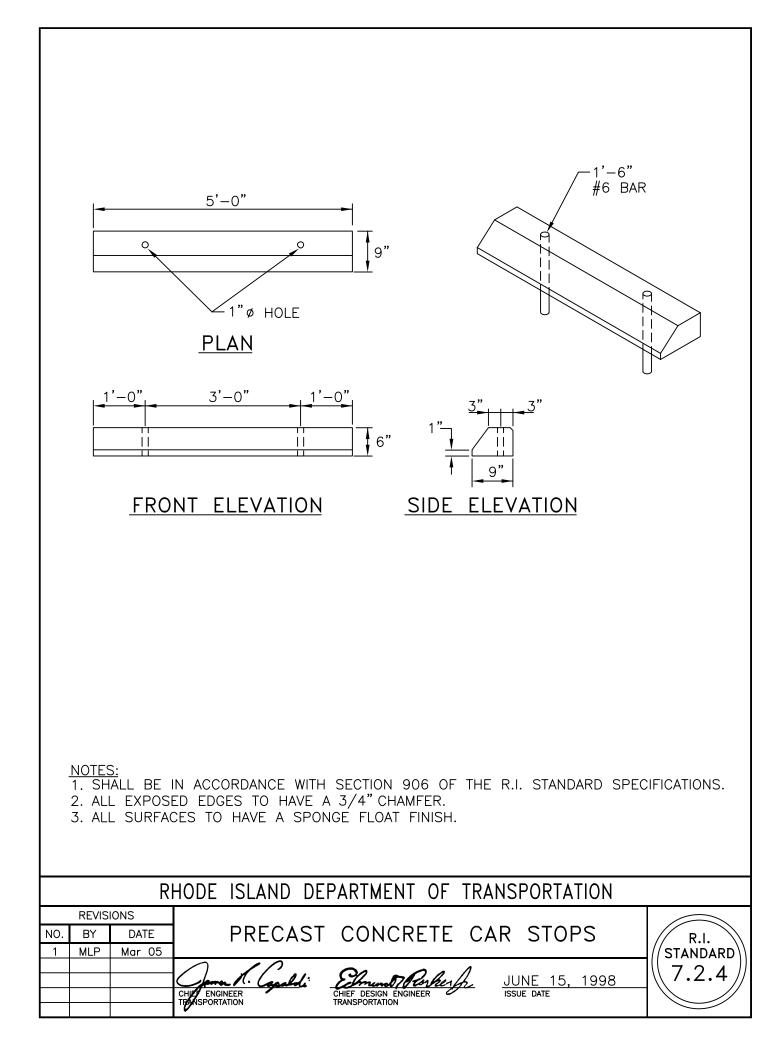


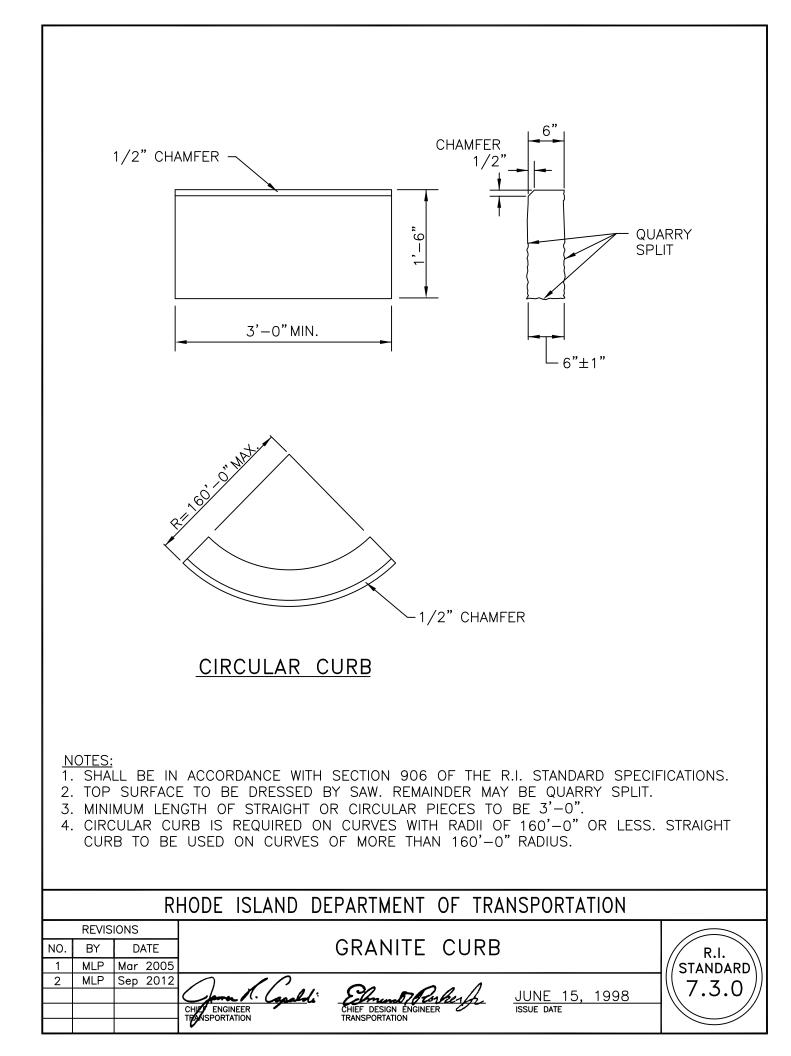
GUTTER LINE GUTTER LINE 1"
6'−0" NORMAL 3 1/2"→ 4 10"
- 1/2"ø x 4" EPOXY COATED DOWEL
EIRCULAR CURB
 <u>NOTES:</u> 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS. 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0". 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH. 4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER. 5. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
REVISIONS PRECAST CONCRETE SLOPED FACE CURB 1 MLP Mar 05 - -

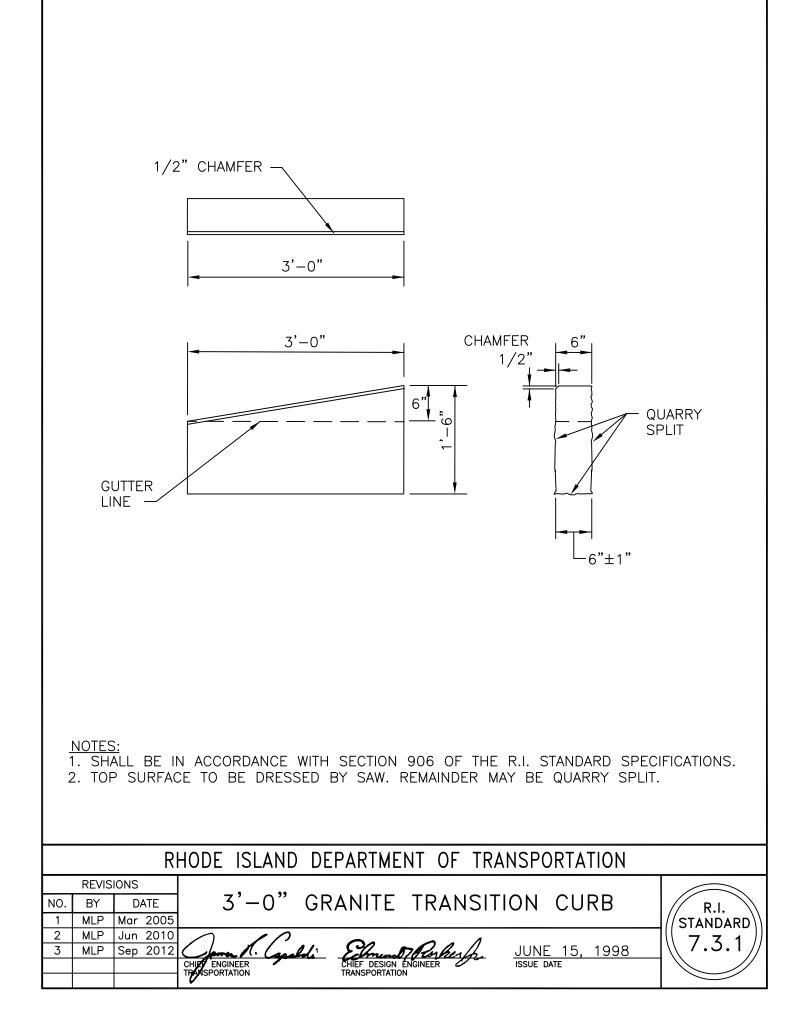


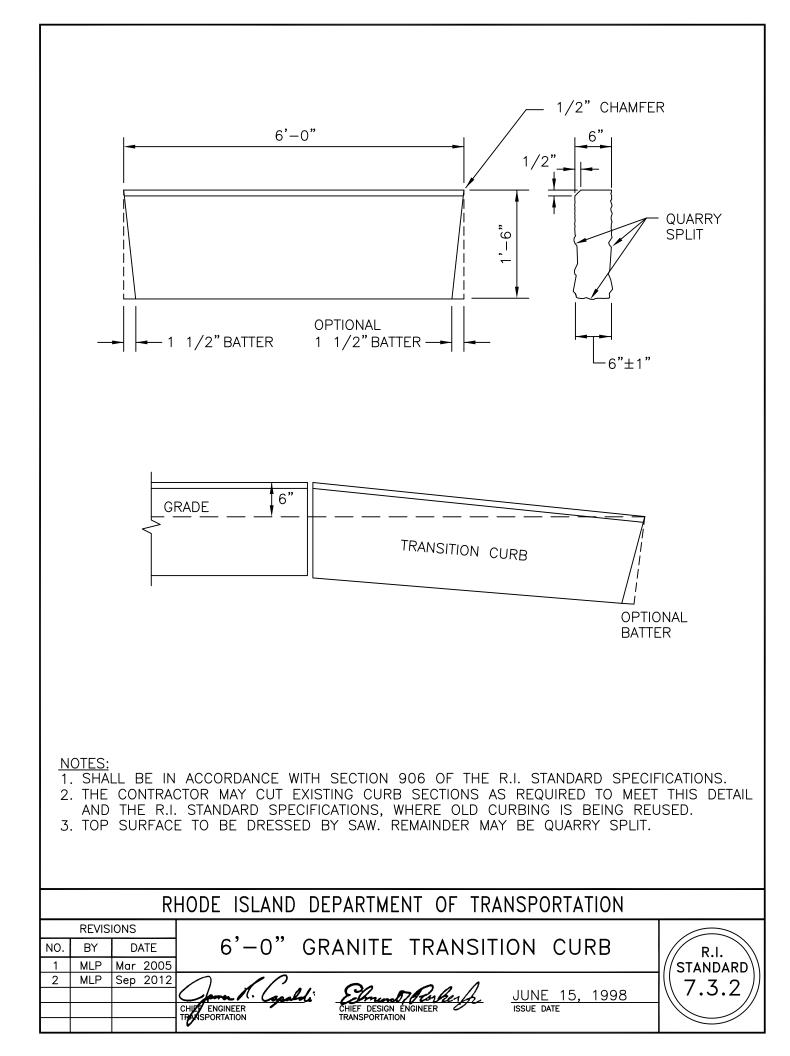


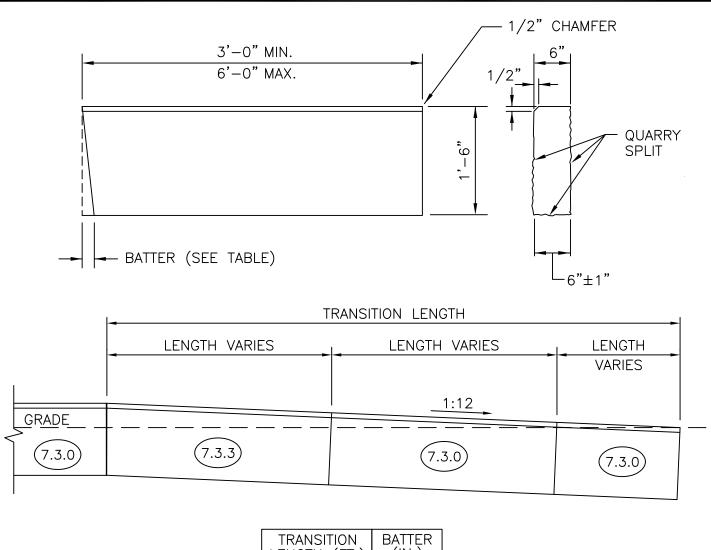










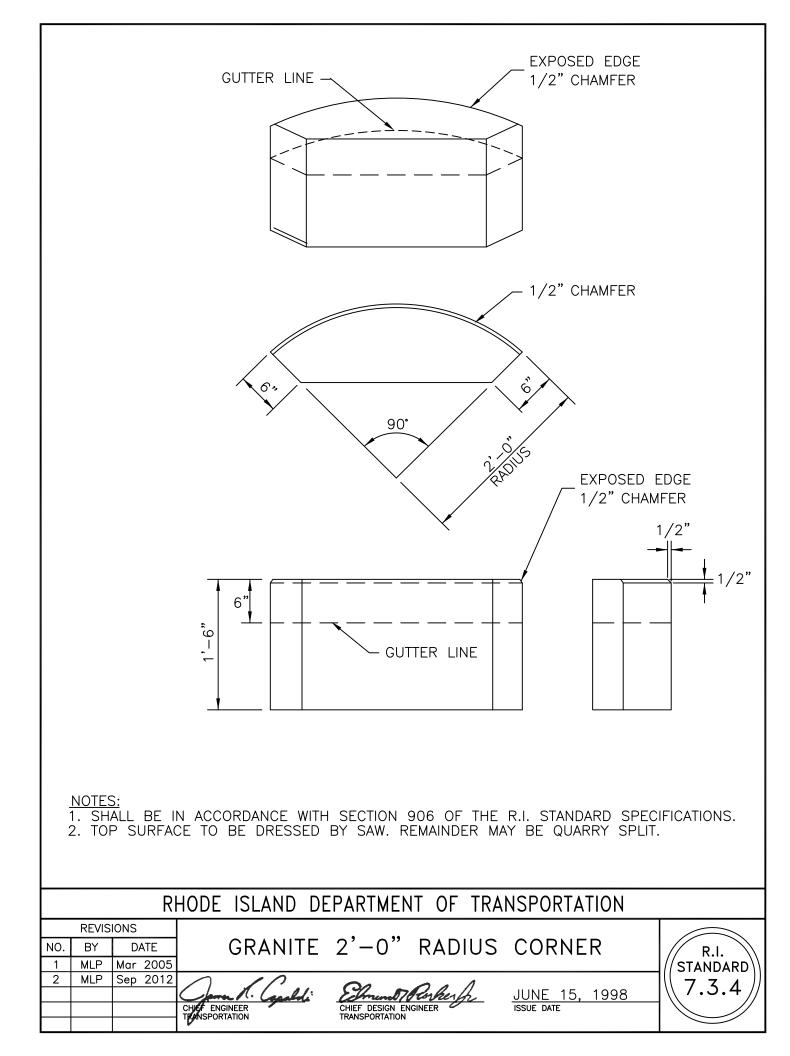


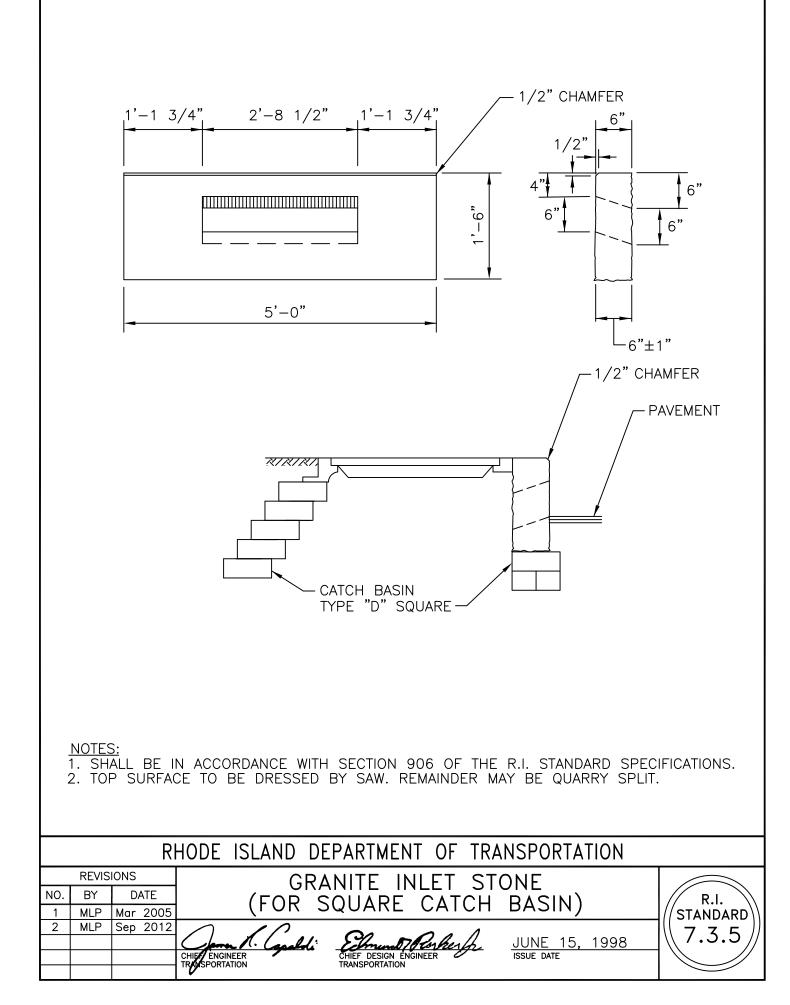
TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

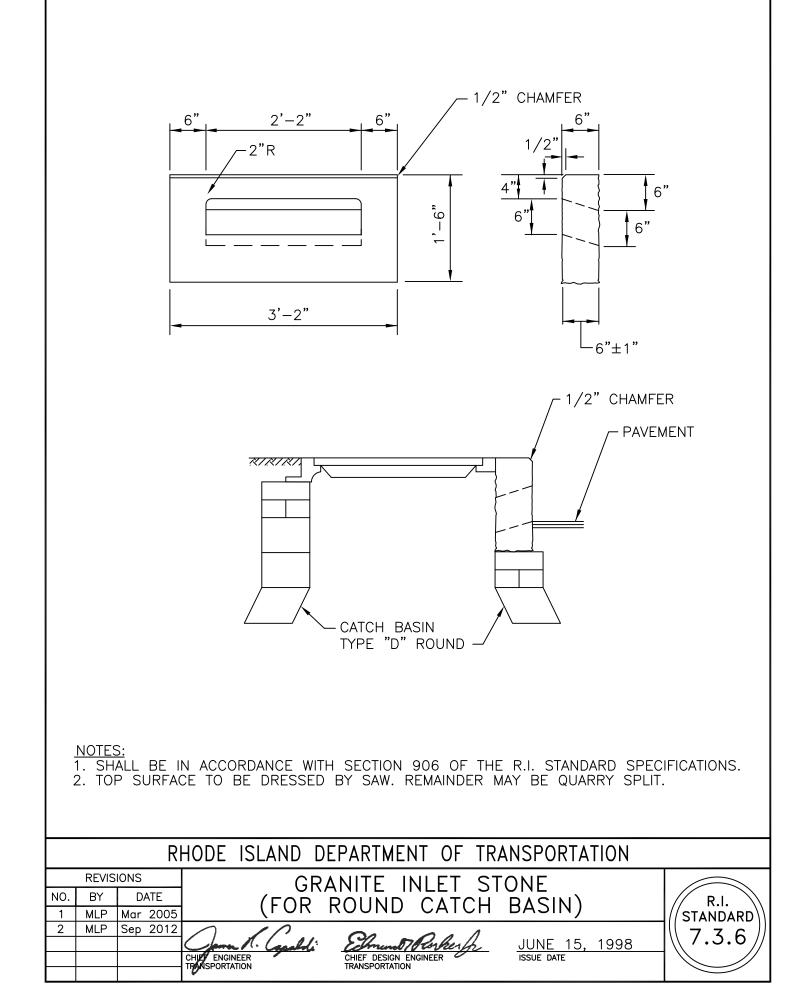
NOTES:

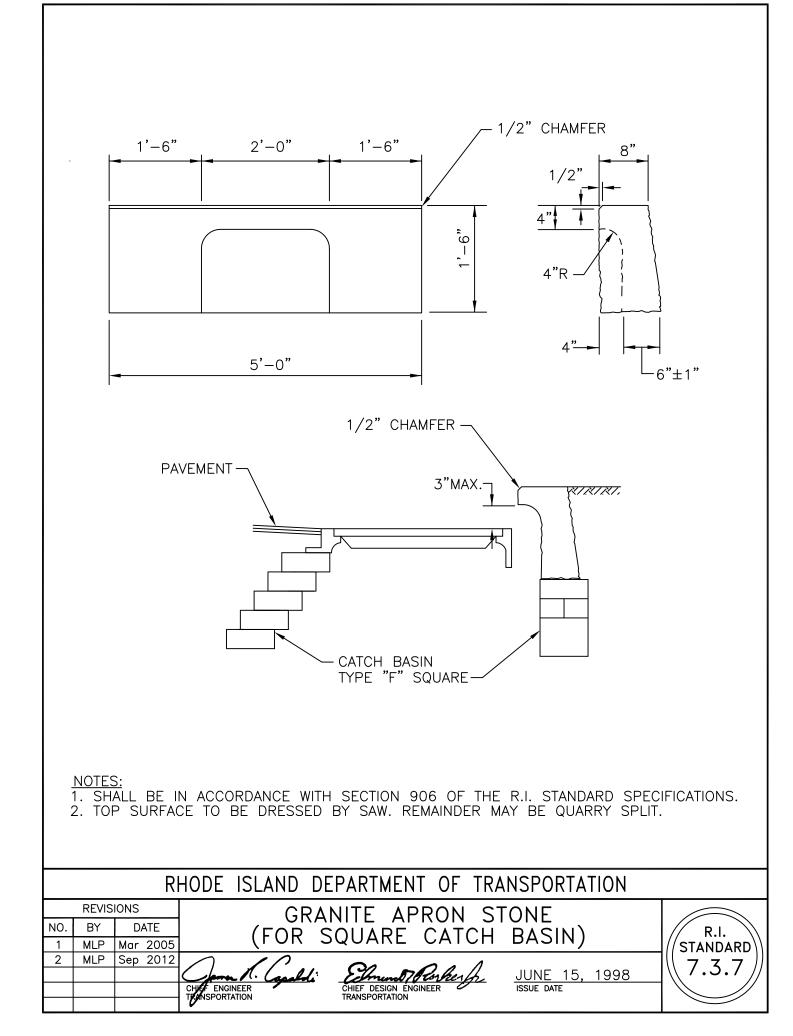
- 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
- 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
- 4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

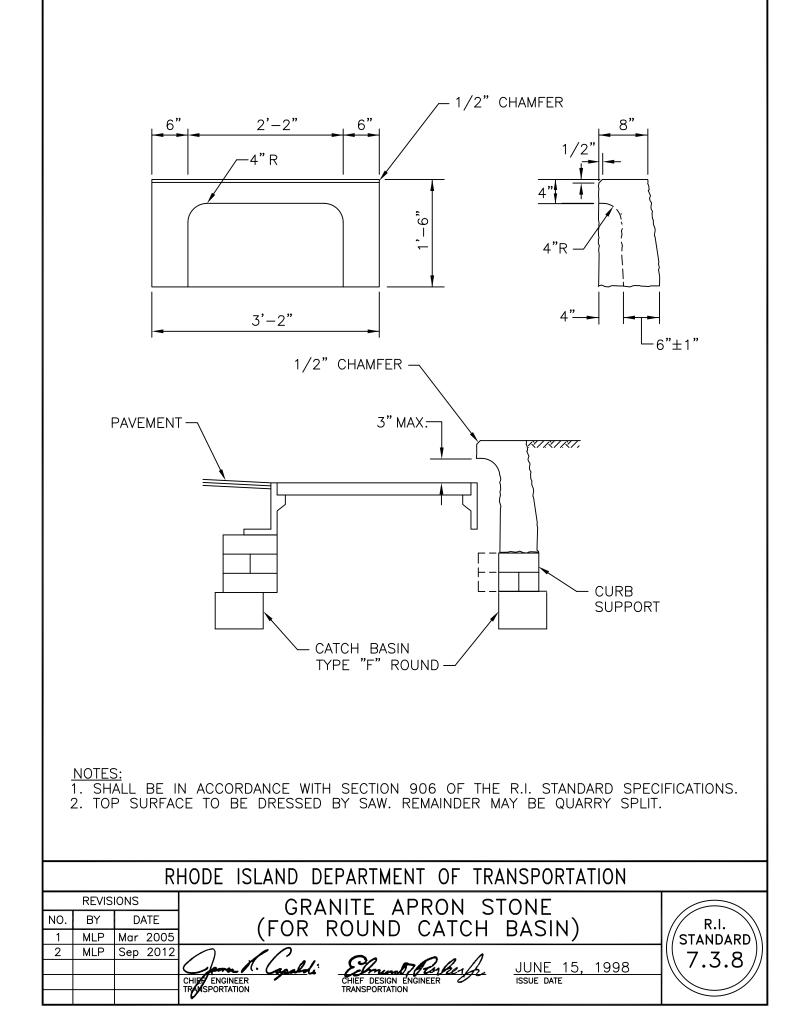
		RI	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	GRANITE WHEELCHAIR RAMP	
NO.	BY	DATE	TRANSITION CURB	R.I.
1	MLP	Mar 2005	IRANSITION CORD	//STANDARD
2	MLP	Jun 2012] 7 7 7
			Jame A. Capaldi Elmund To Porkerfr. JUNE 15, 1998	
			CHIEF DESIGN ENGINEER ISSUE DATE	







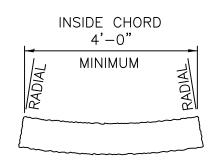




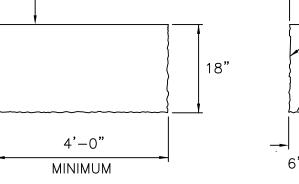
	 SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS. TOP SURFACE TO BE DRESSED BY SAW TO PROVIDE NO-SLIP SURFACE; REMAINDER MAY BE QUARRY SPLIT. 			
4.	 MAY BE QUARRY SPLIT. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR RAMP STONE TO BE 4'-0". CIRCULAR RAMP STONE IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT RAMP STONE TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS. WANNE STOONE 3SHALL BE SET IN ACCORDANCE WITH STD. 43.3.0 AND IN CONJUNCTION 			
	RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
	REVIS	IONS		
NO.	BY	DATE	GRANITE RAMP STONE	R.I.
1	MLP	Jun 2010		//STANDARD
2	MLP	Sep 2012	Λ	\\ 7.3.9 //
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION ISSUE DATE	7.5.3

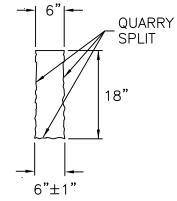
CIRCULAR GRANITE RAMP STONE

NOTES:

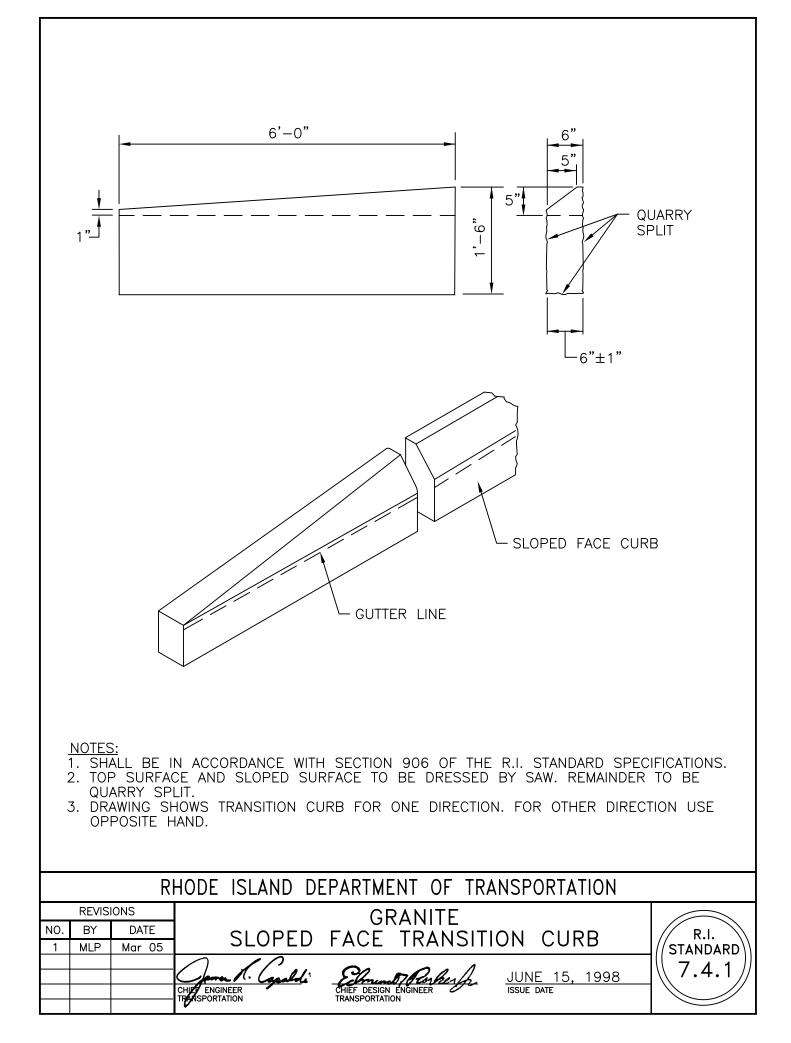


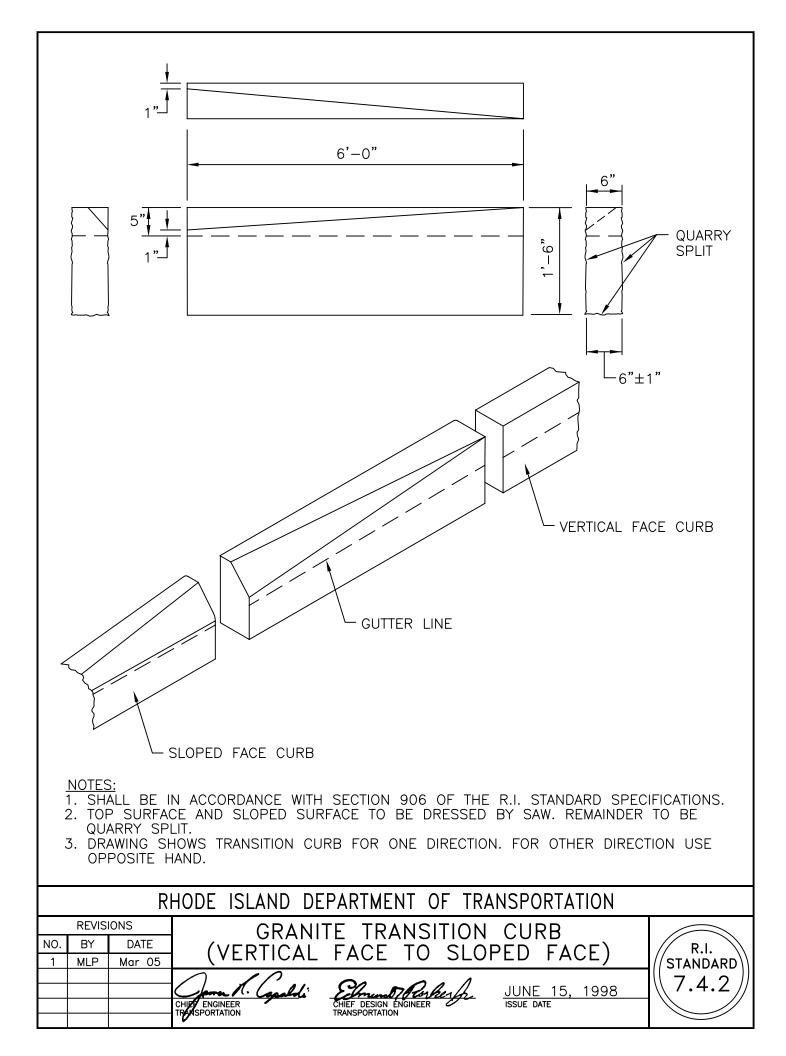
-GUTTER LINE

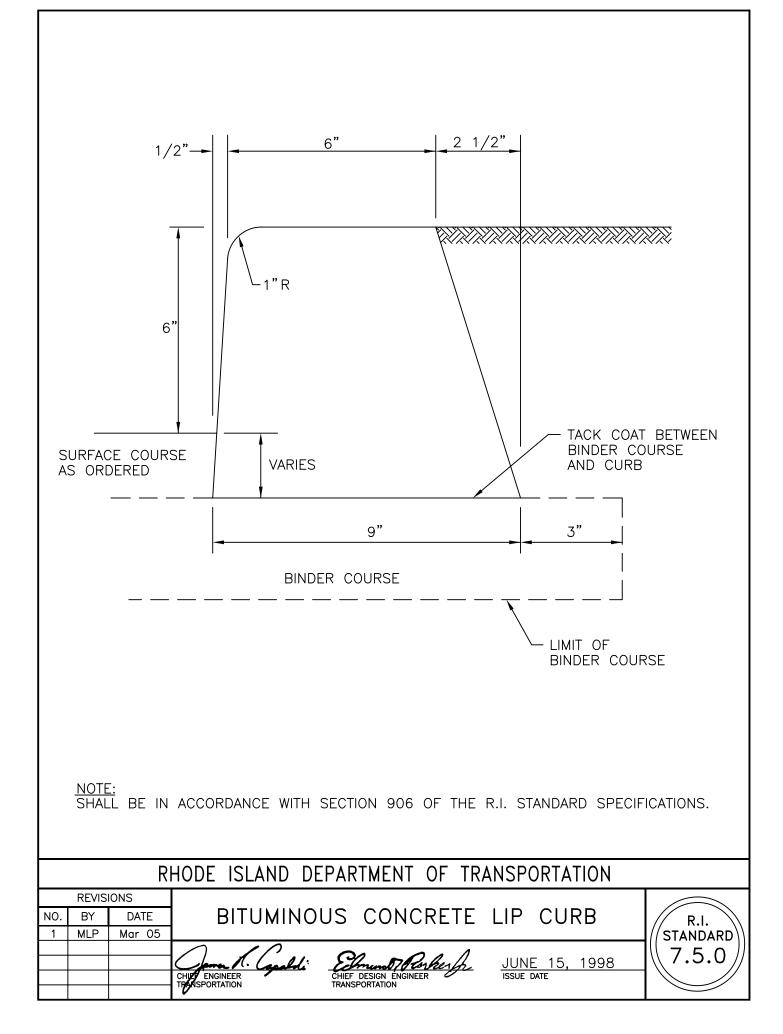


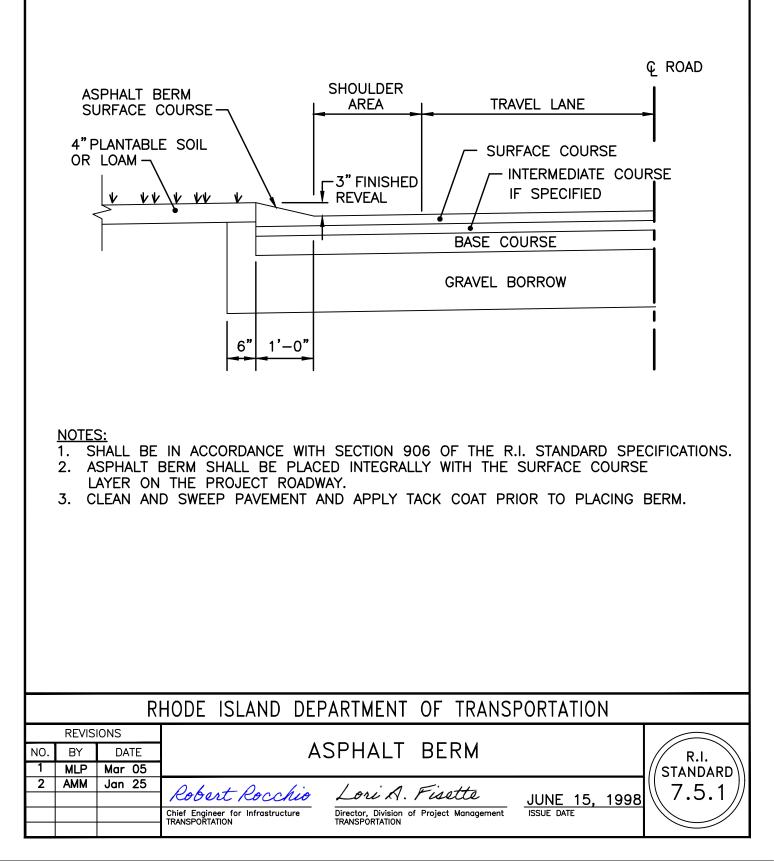


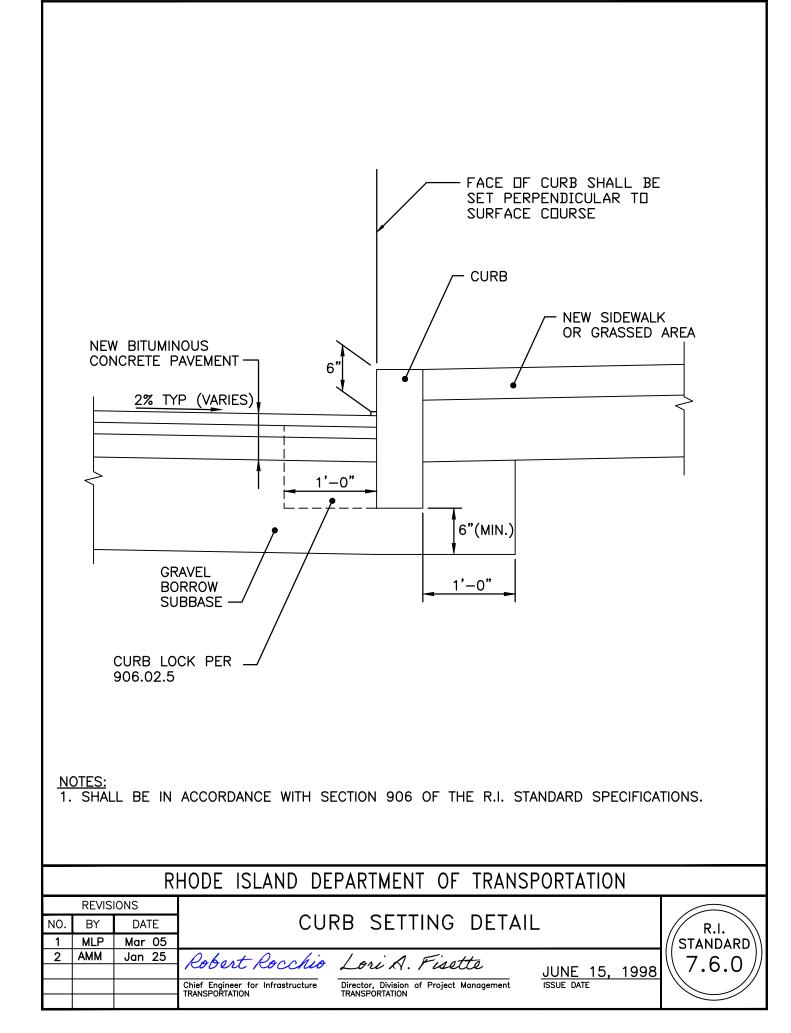
GUTTER LINE
Rest and the outper
NOTES: 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS. 2. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT. 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0". 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS NO. BY DATE GRANITE SLOPED FACE CURB 1 MLP Mar 05 Mar 05 STANDARD - - - - - - - - - - - - - - - - - - - - - - -

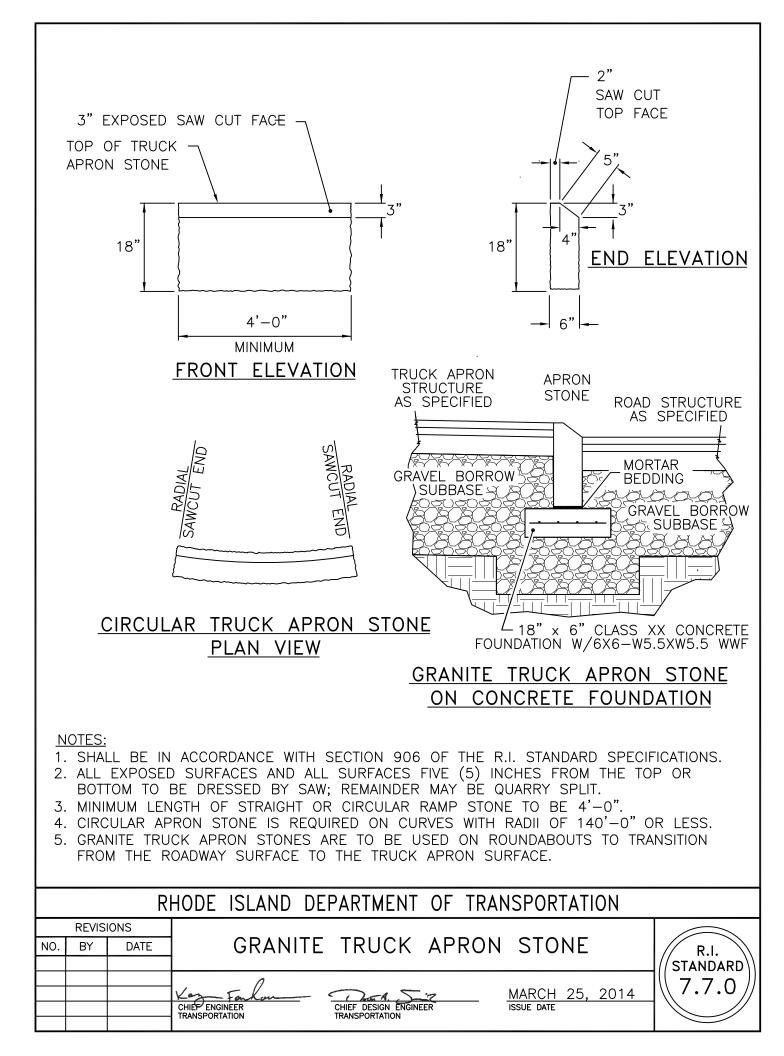




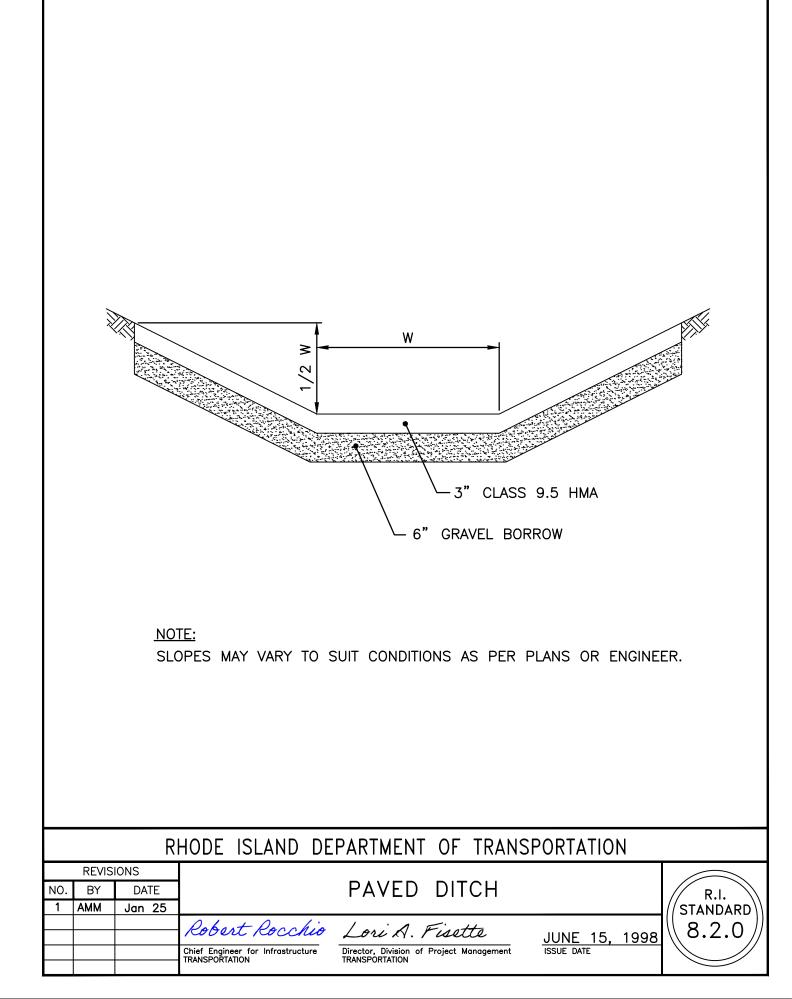


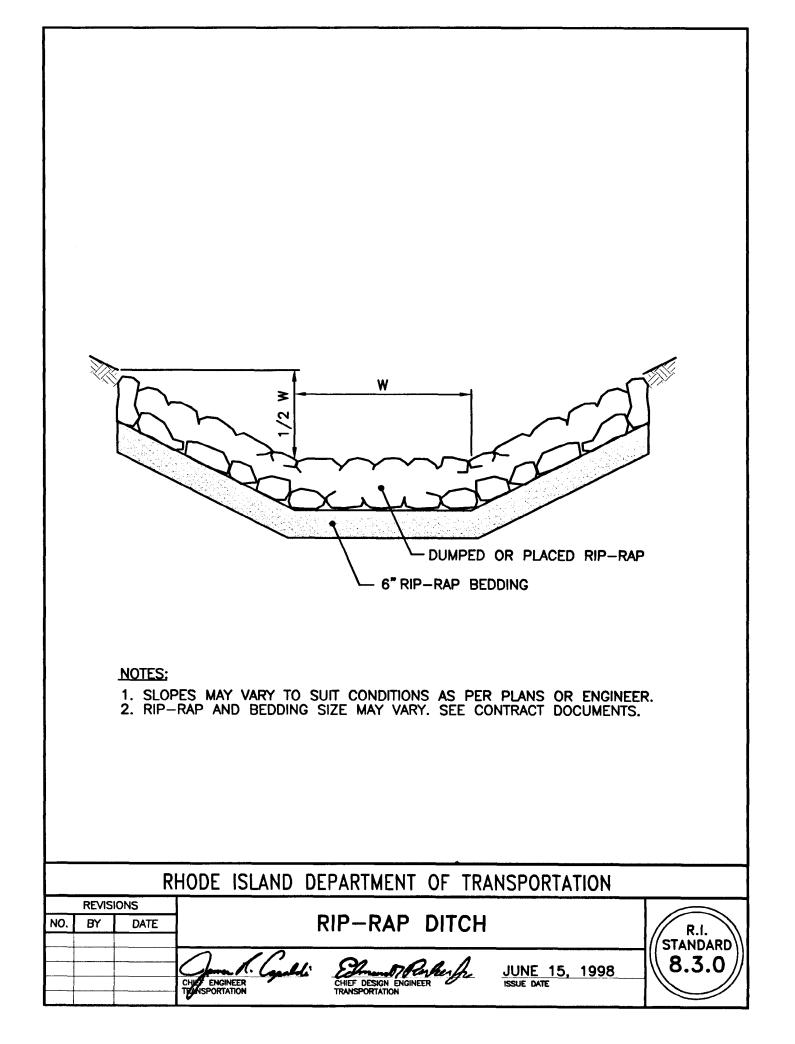


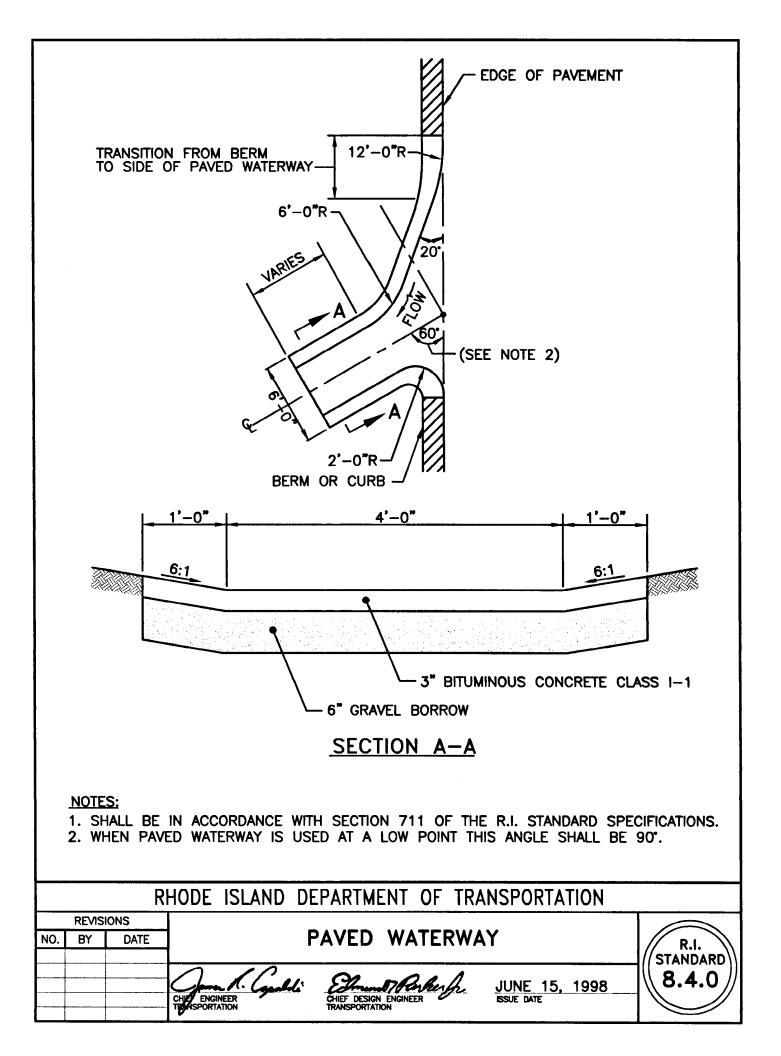


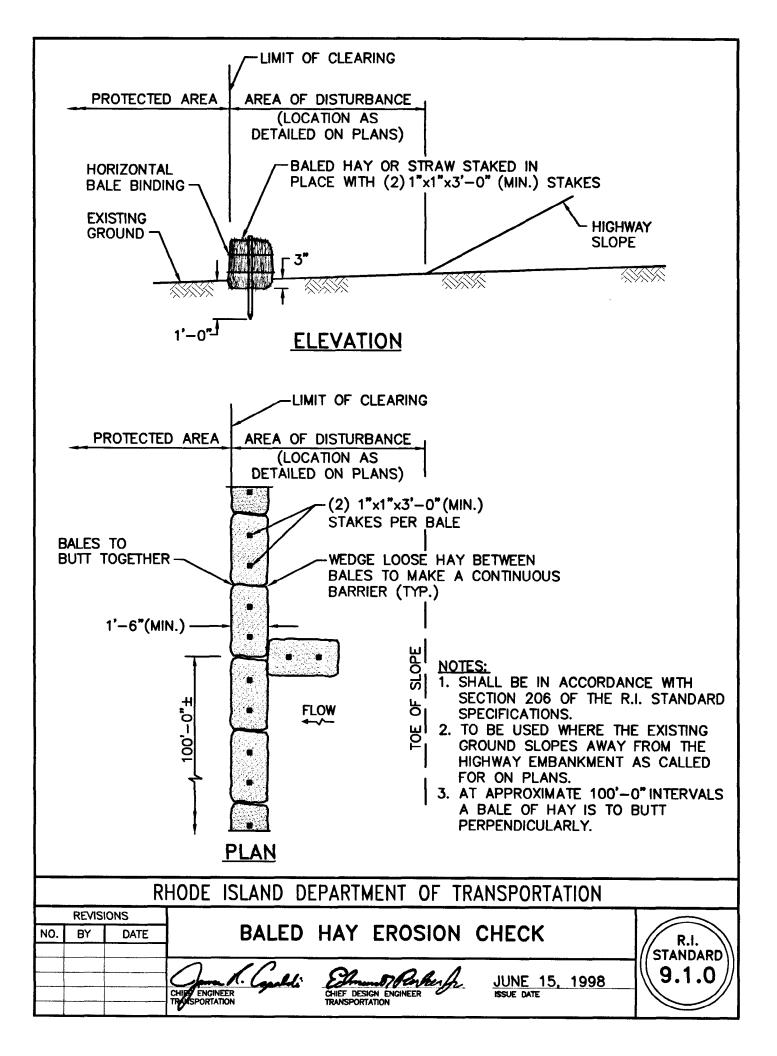


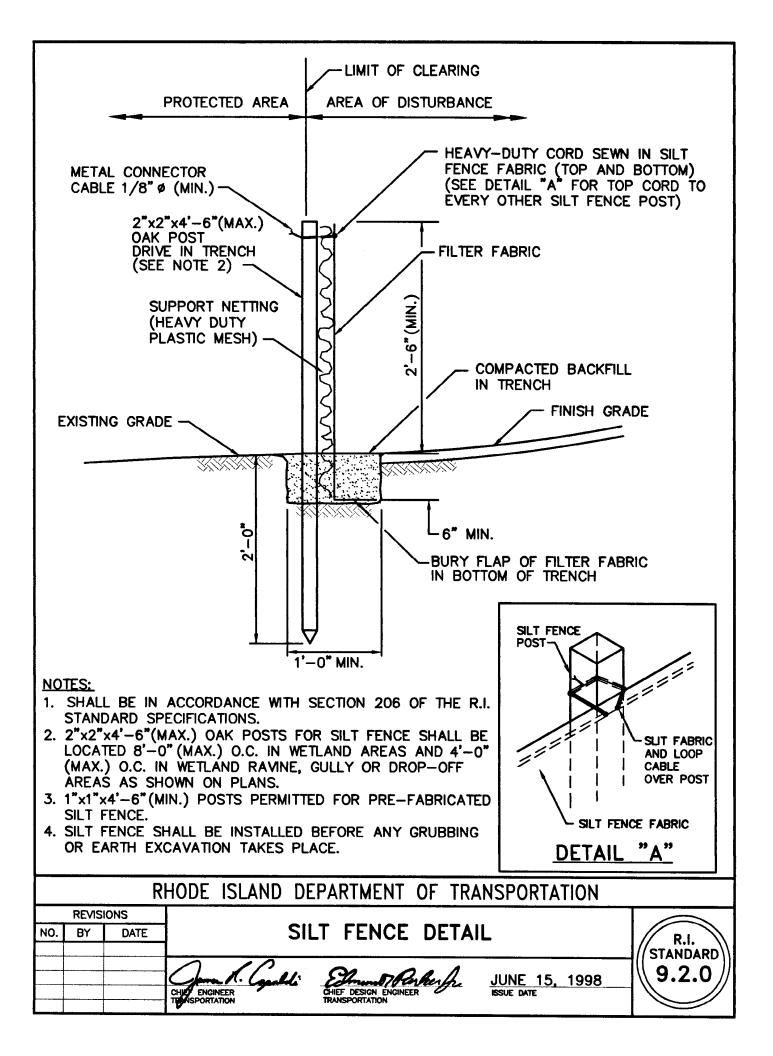
W TOTAL STATE
MIN. 4" PLANTABLE SOIL
<u>NOTE:</u> SLOPES MAY VARY TO SUIT CONDITIONS AS PER PLANS OR ENGINEER.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS NO. BY DATE SEEDED DITCH R.I.
CHIEF ENGINEER CHIEF ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION CHIEF ENGINEER

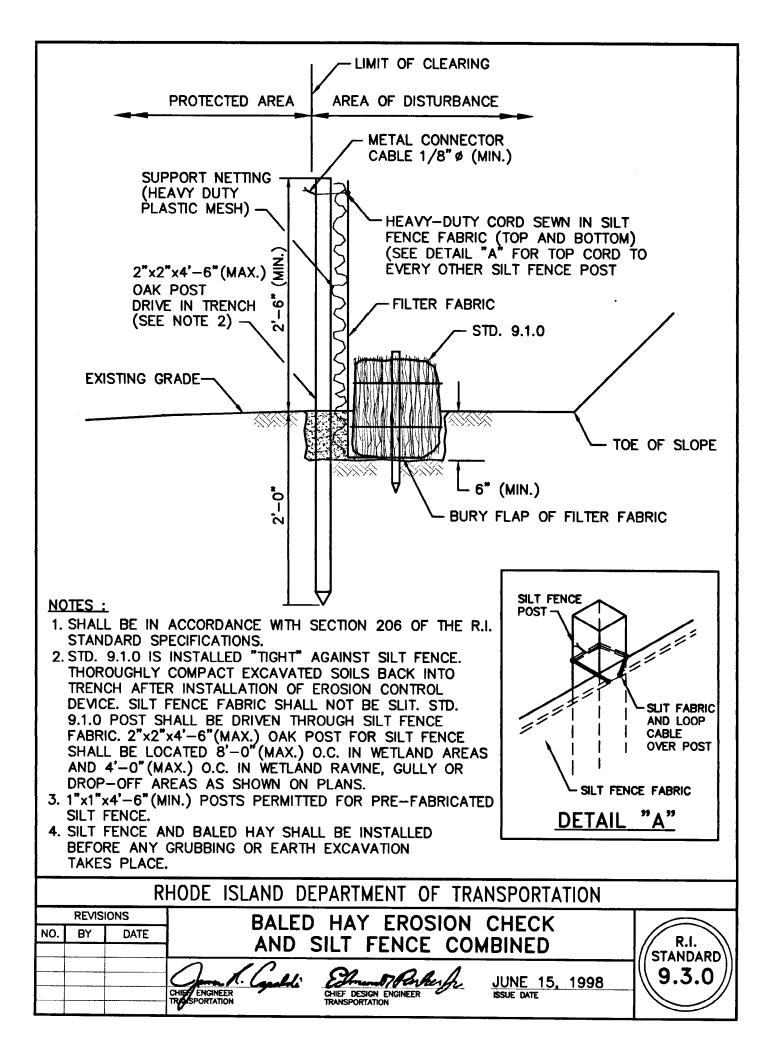


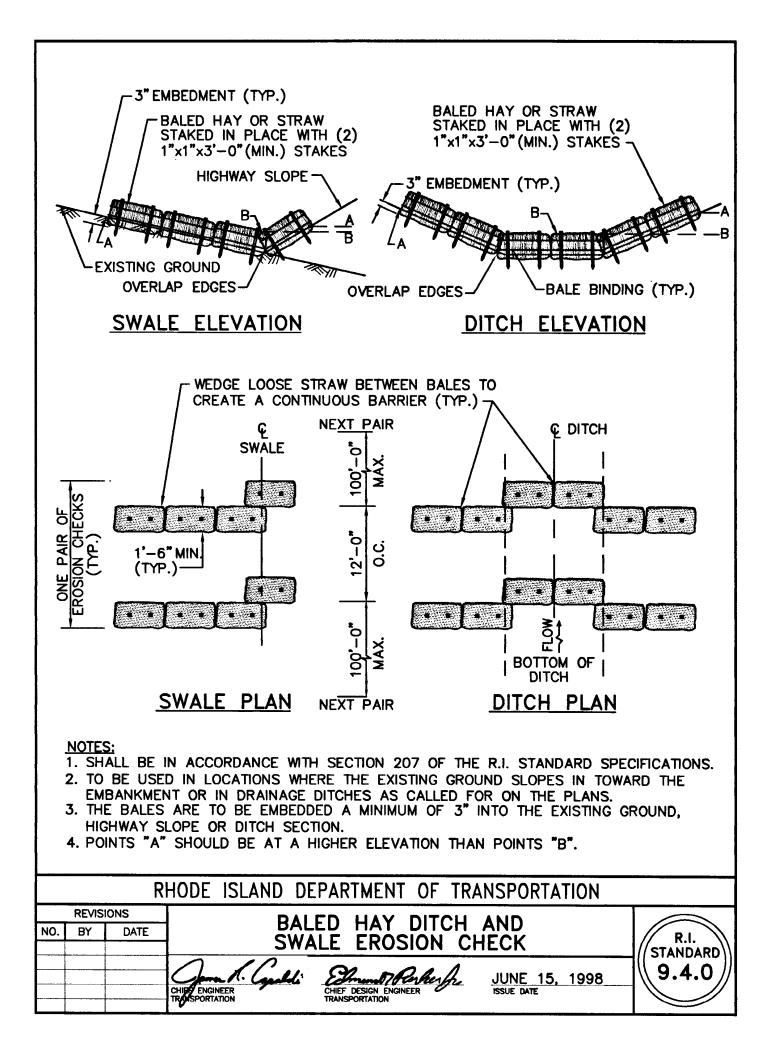


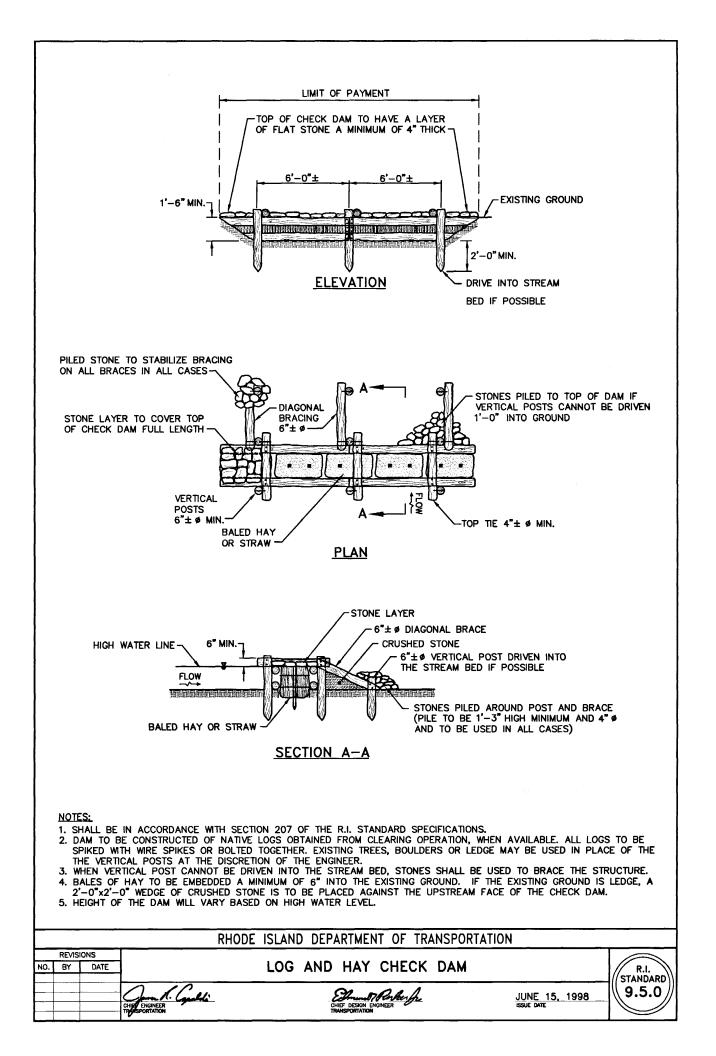


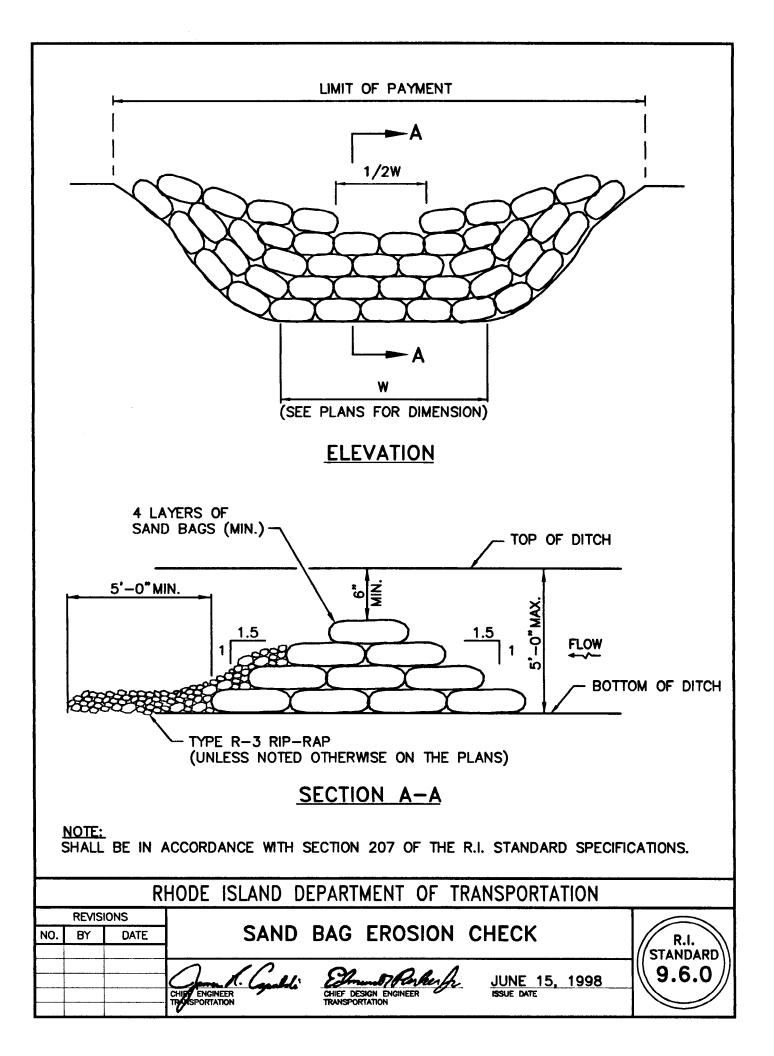


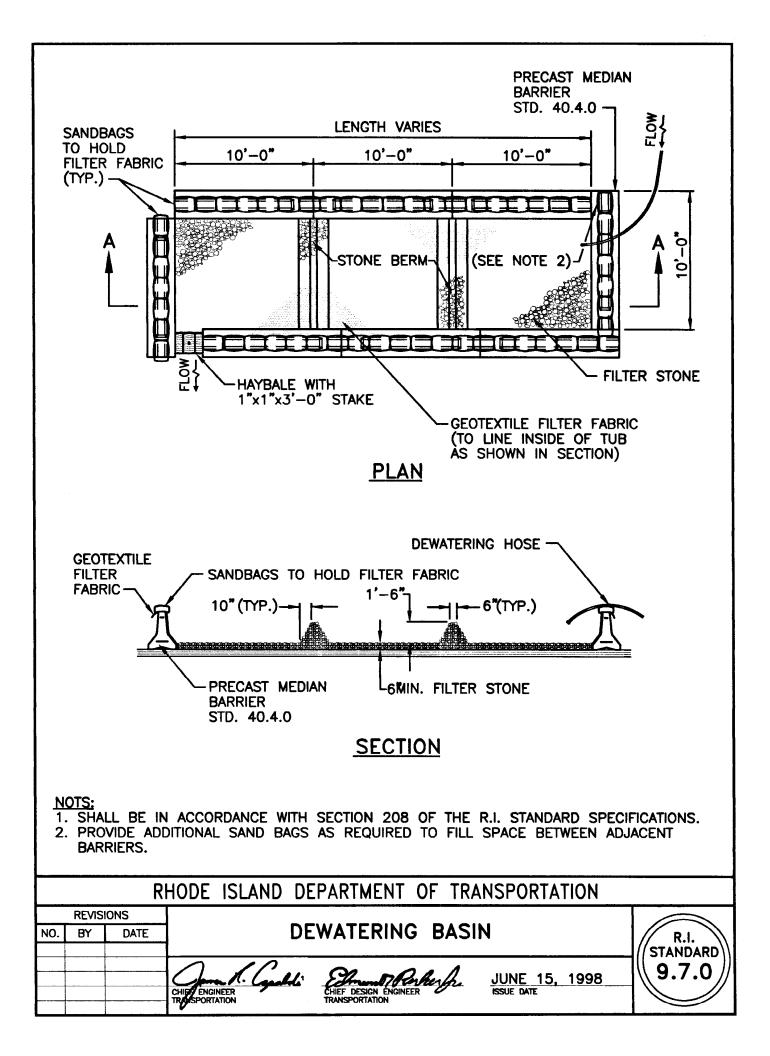


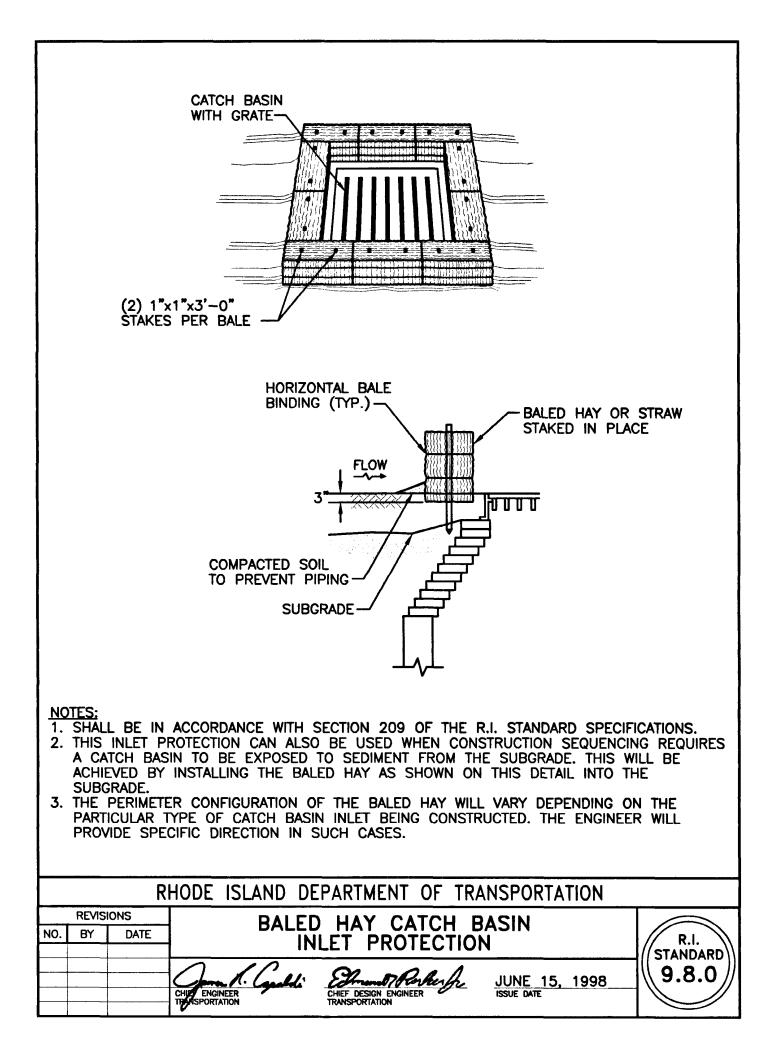


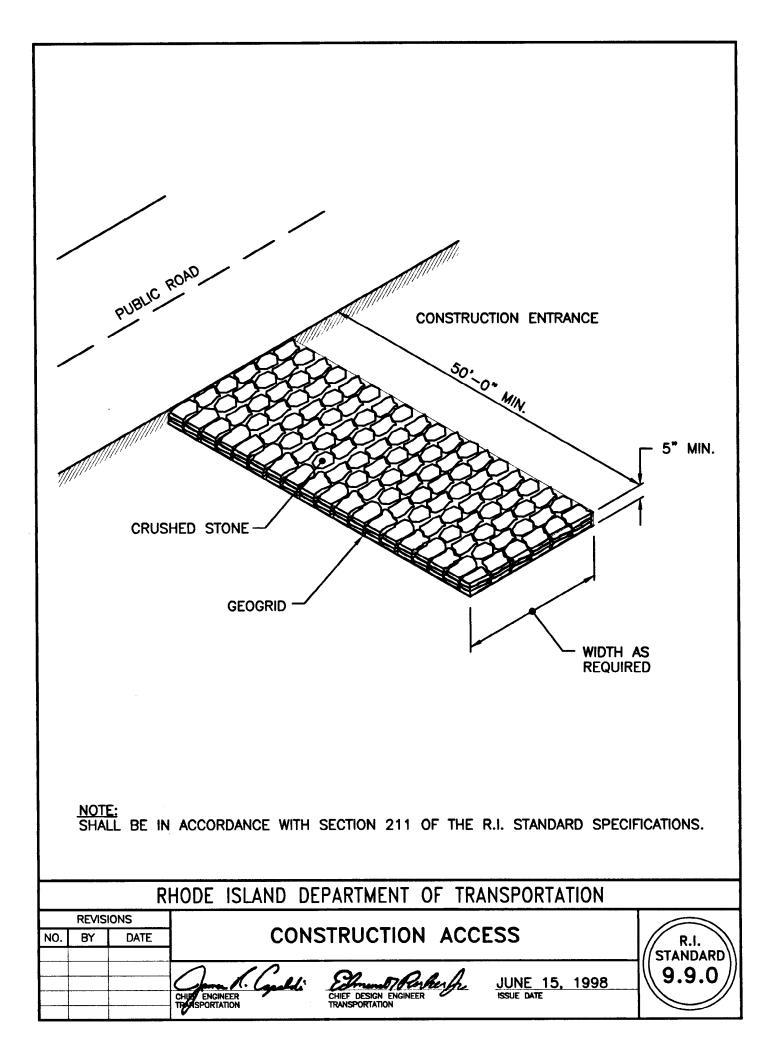


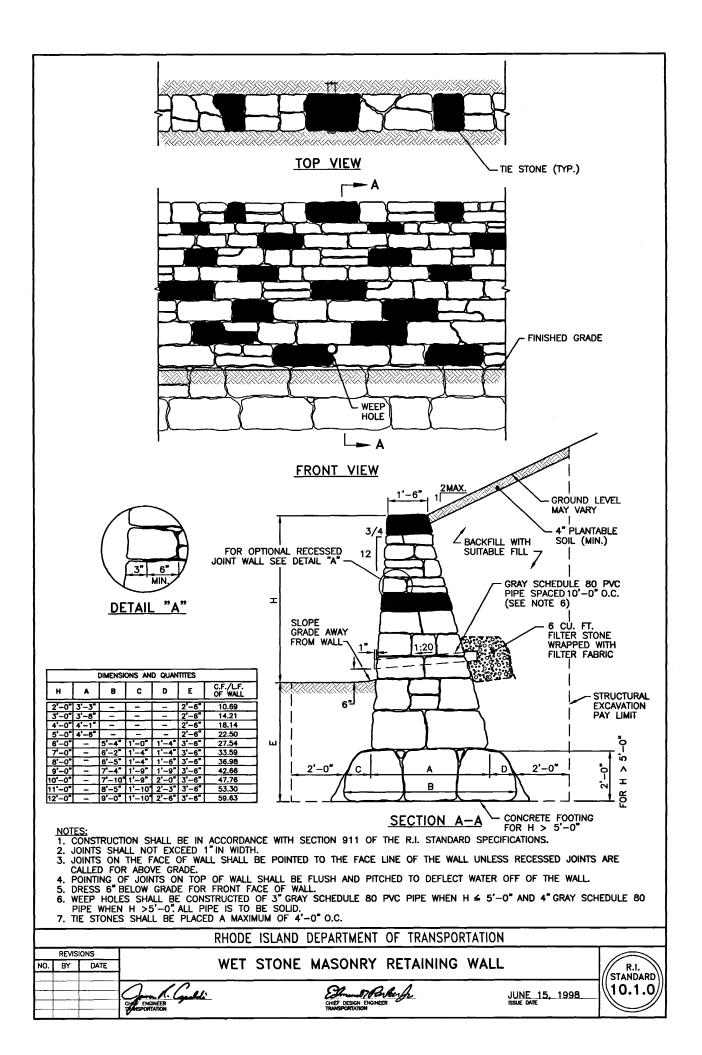


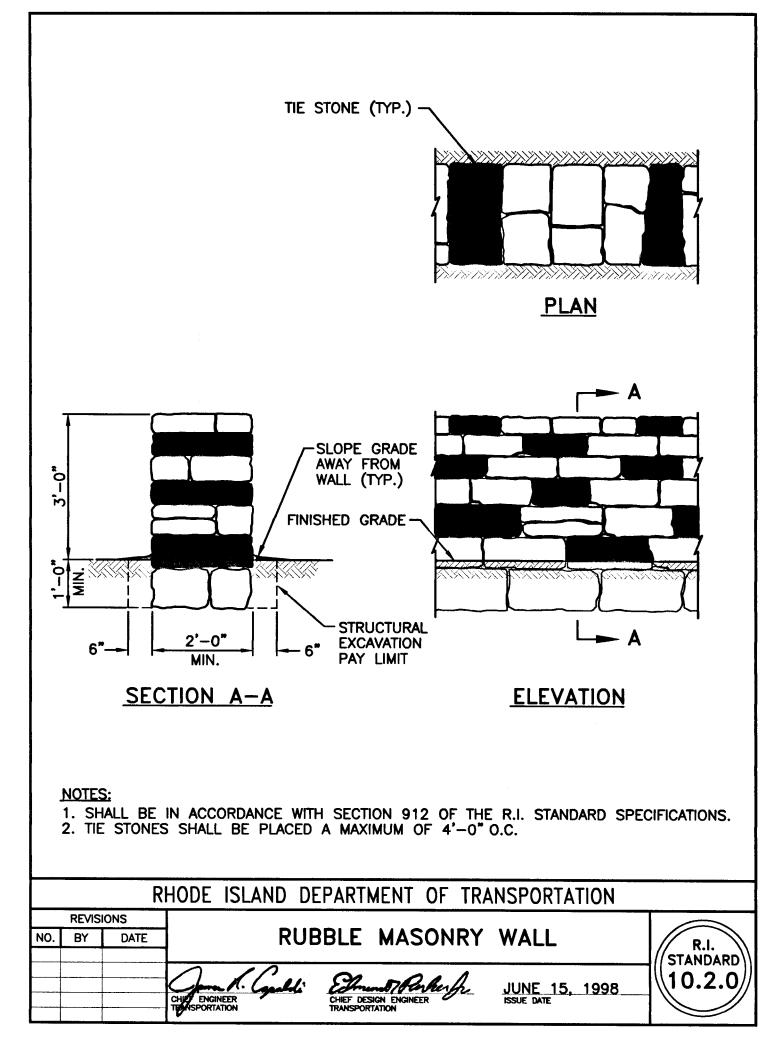


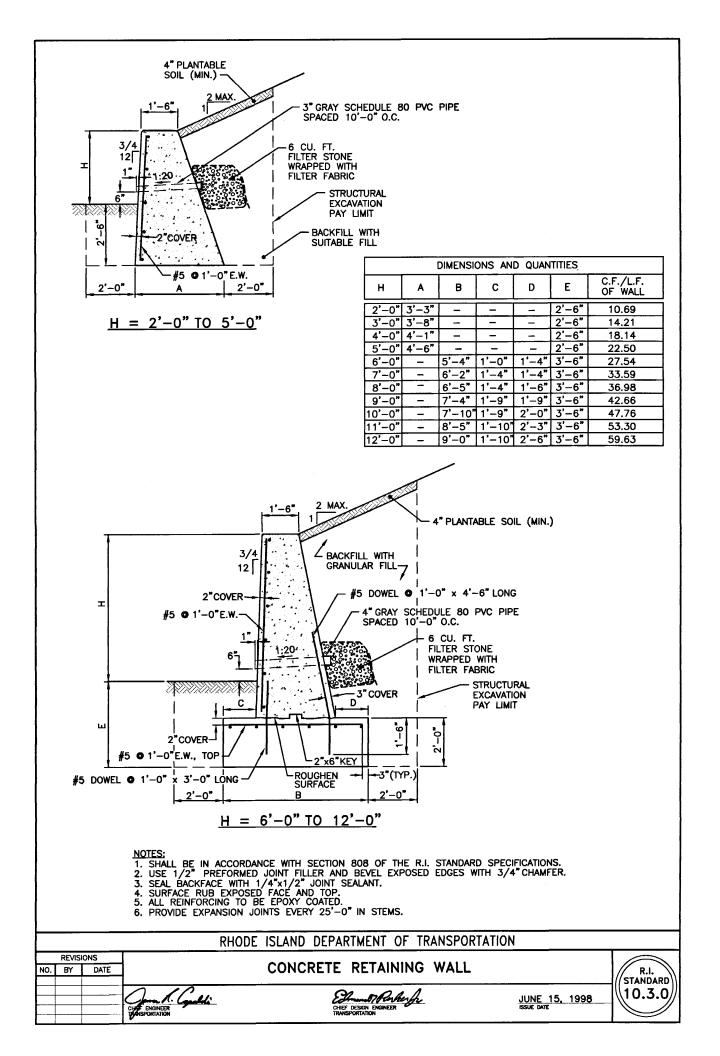


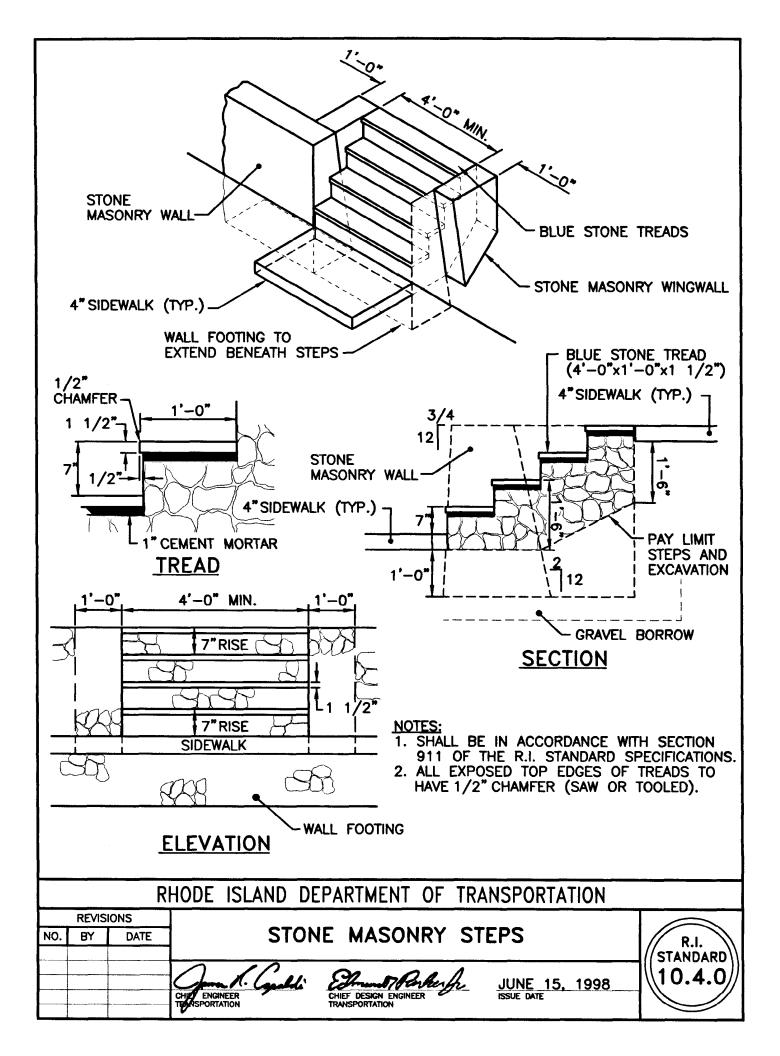


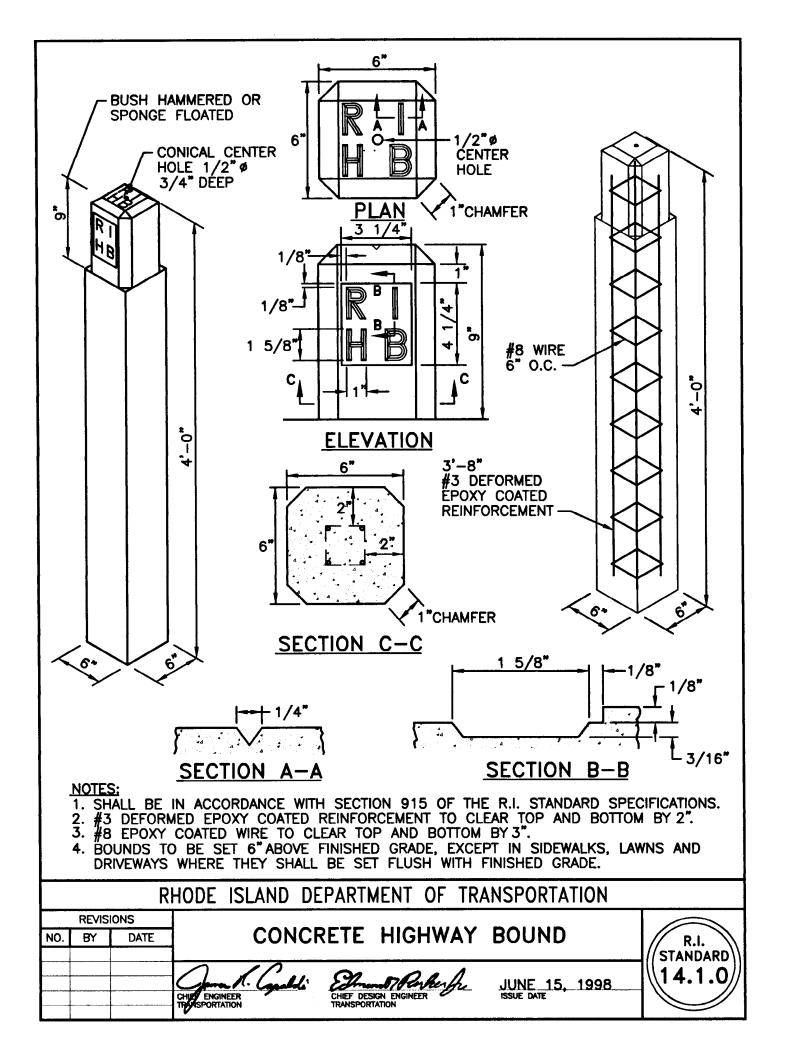


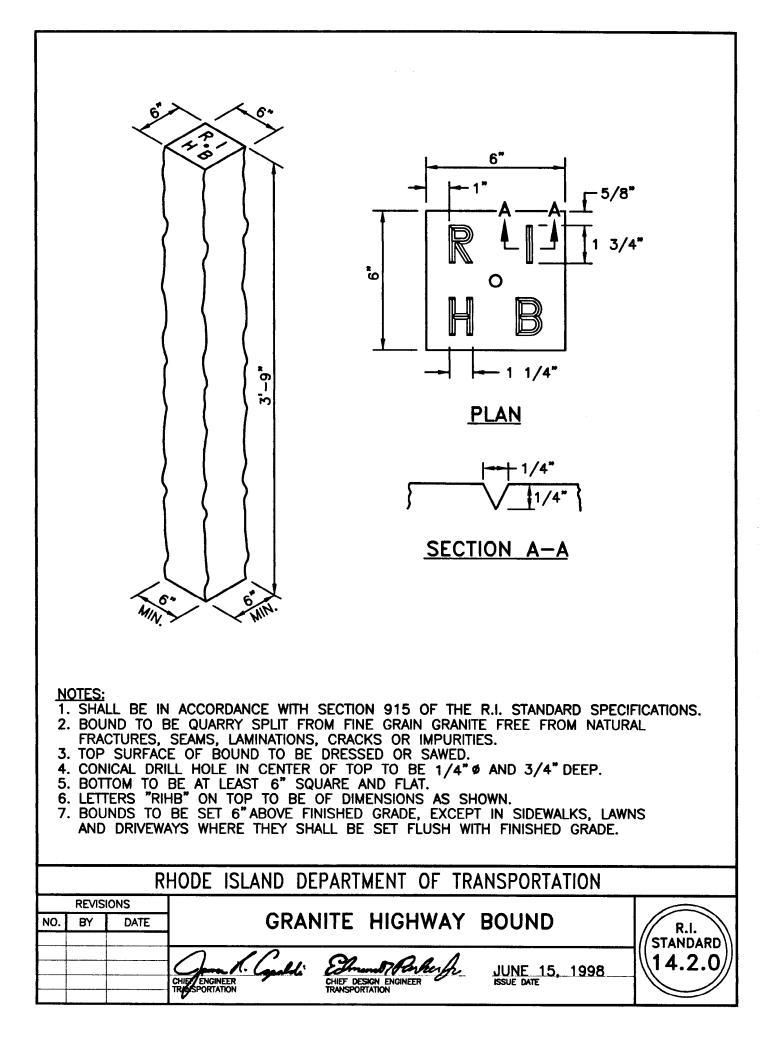


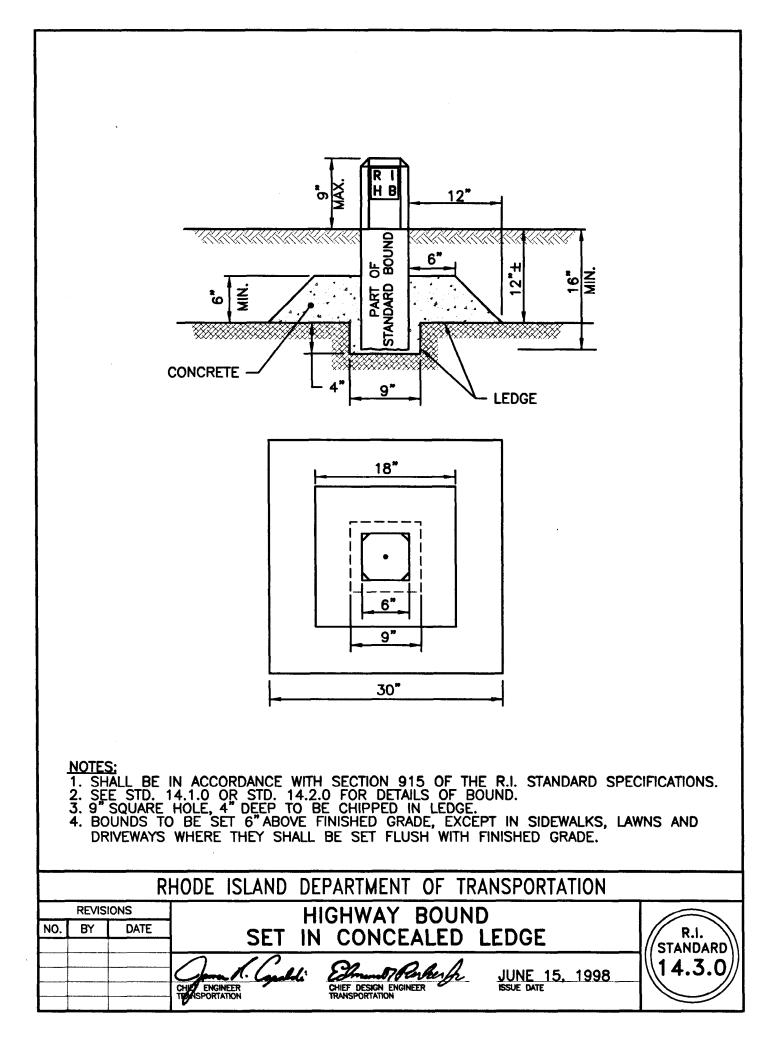


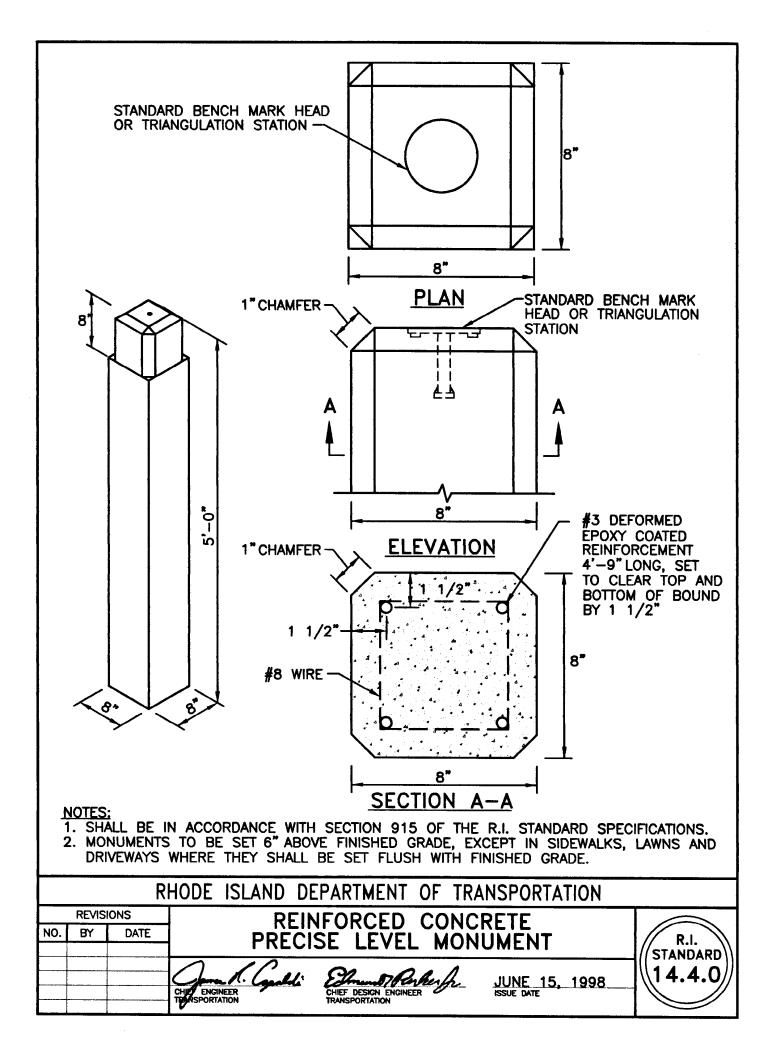


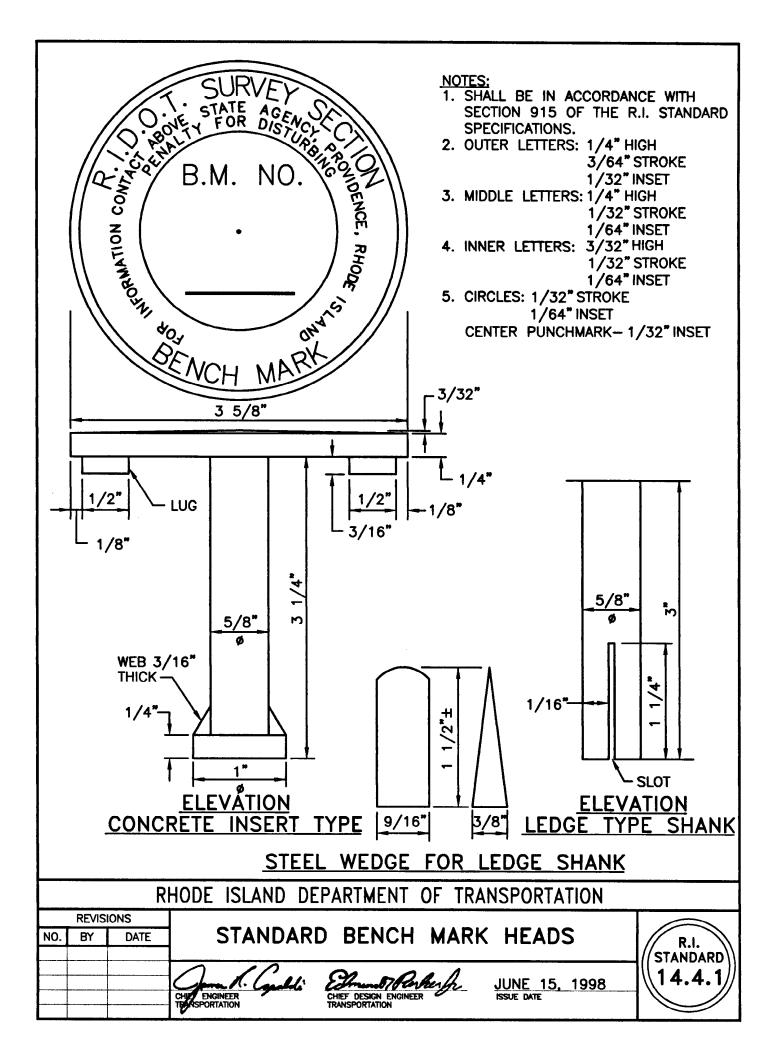


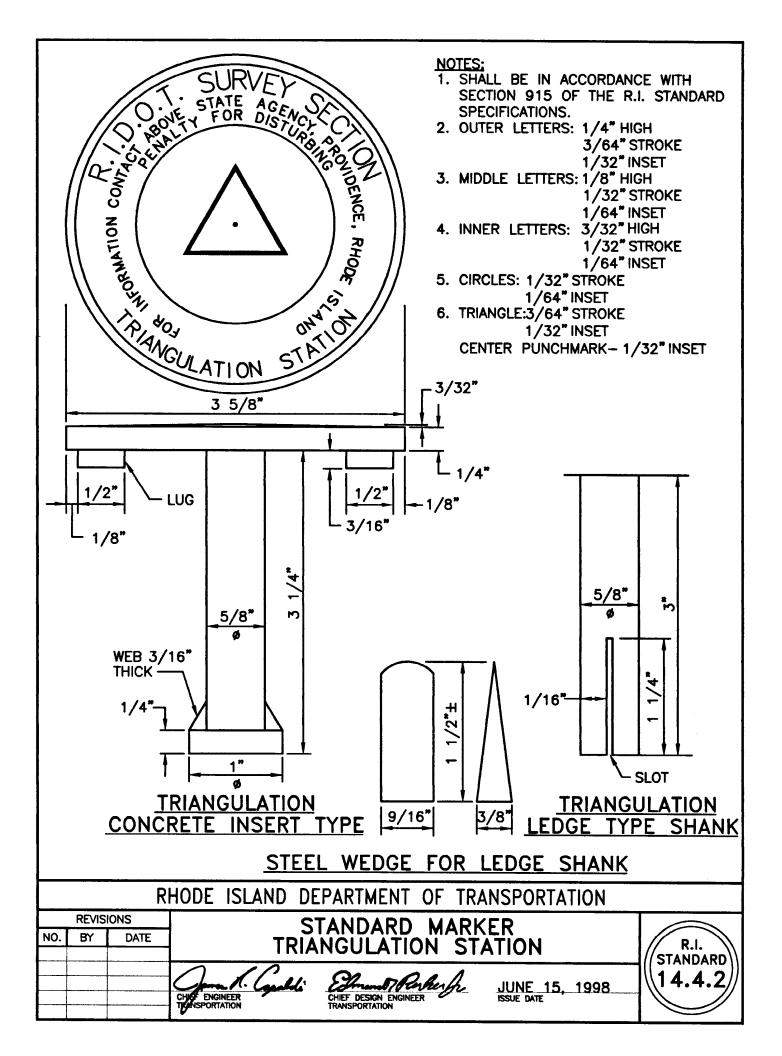


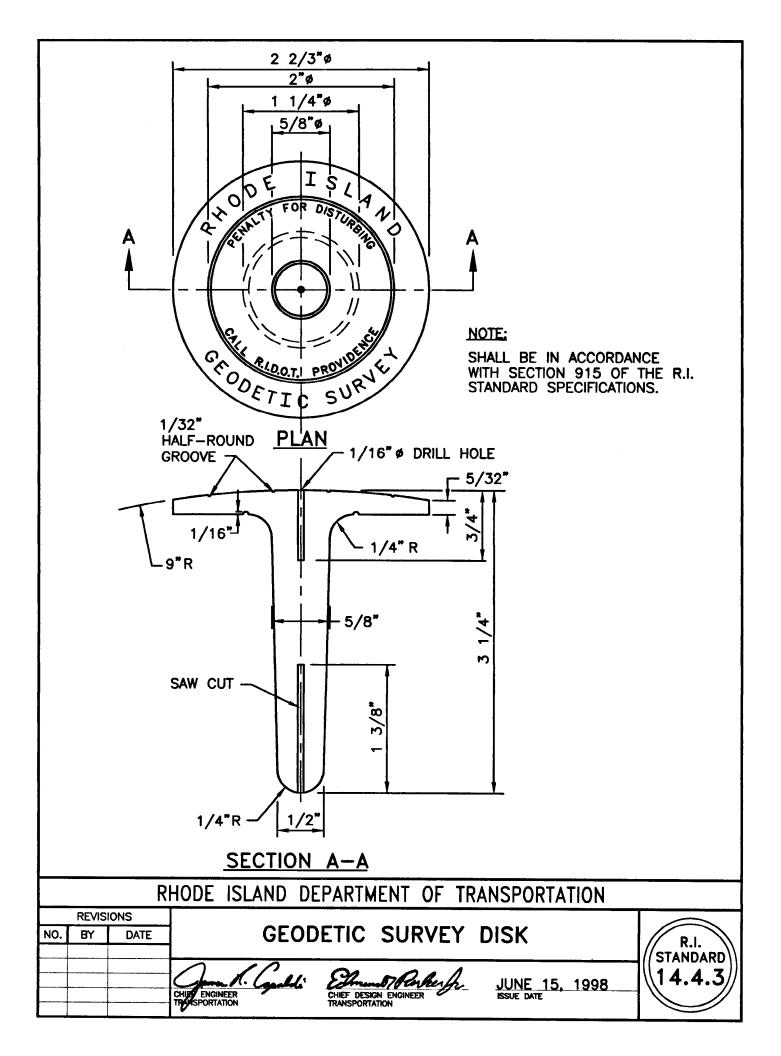




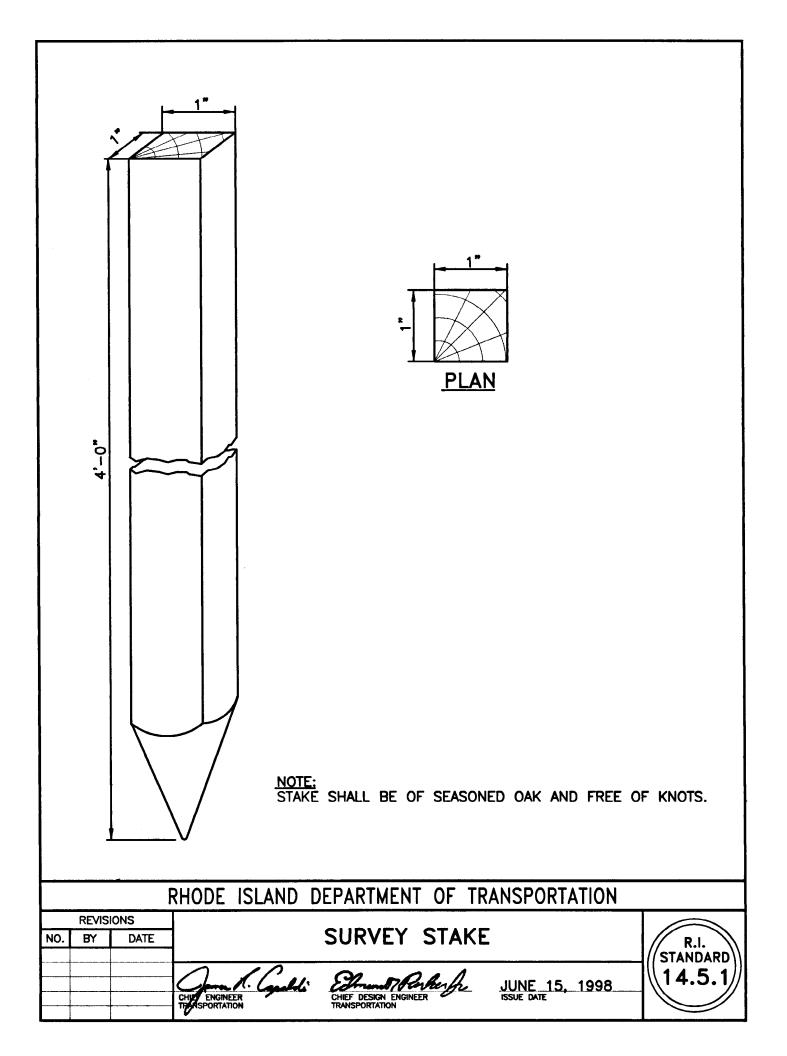


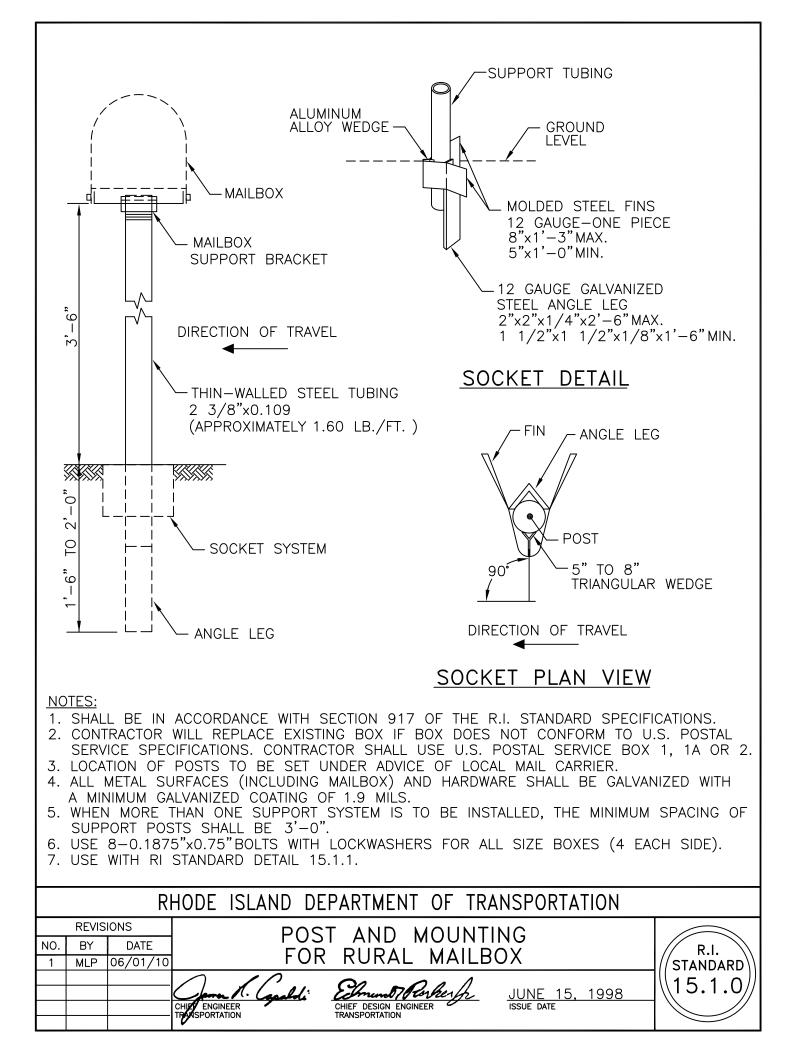


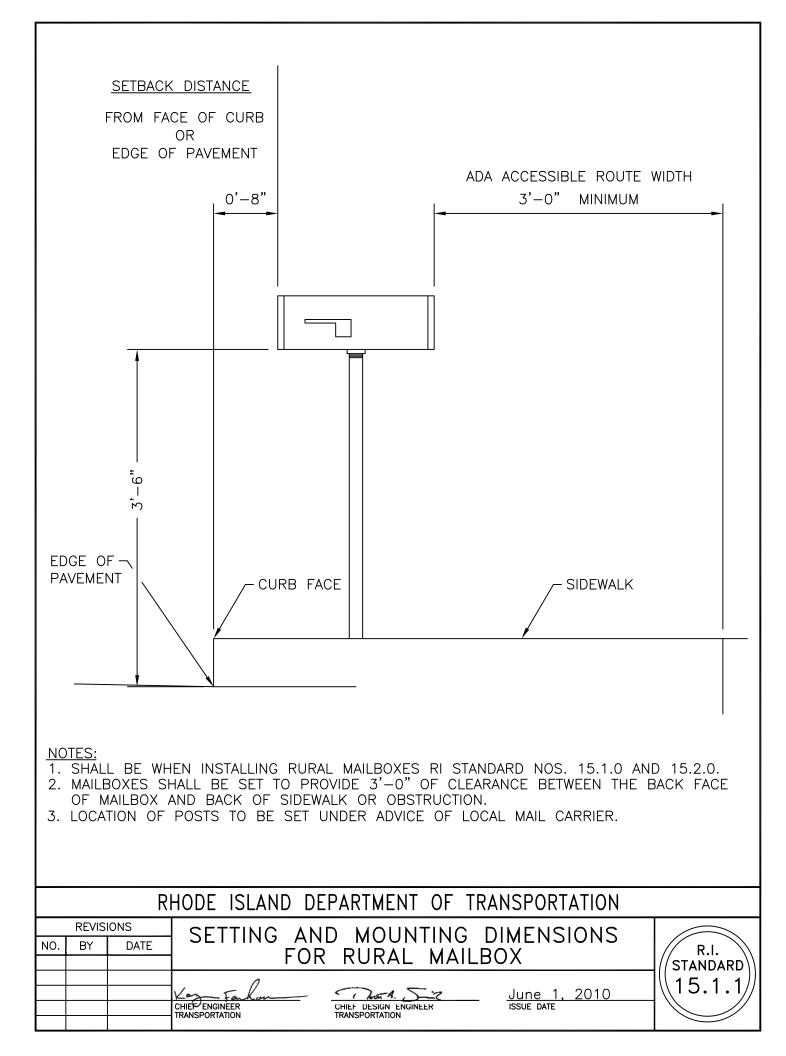


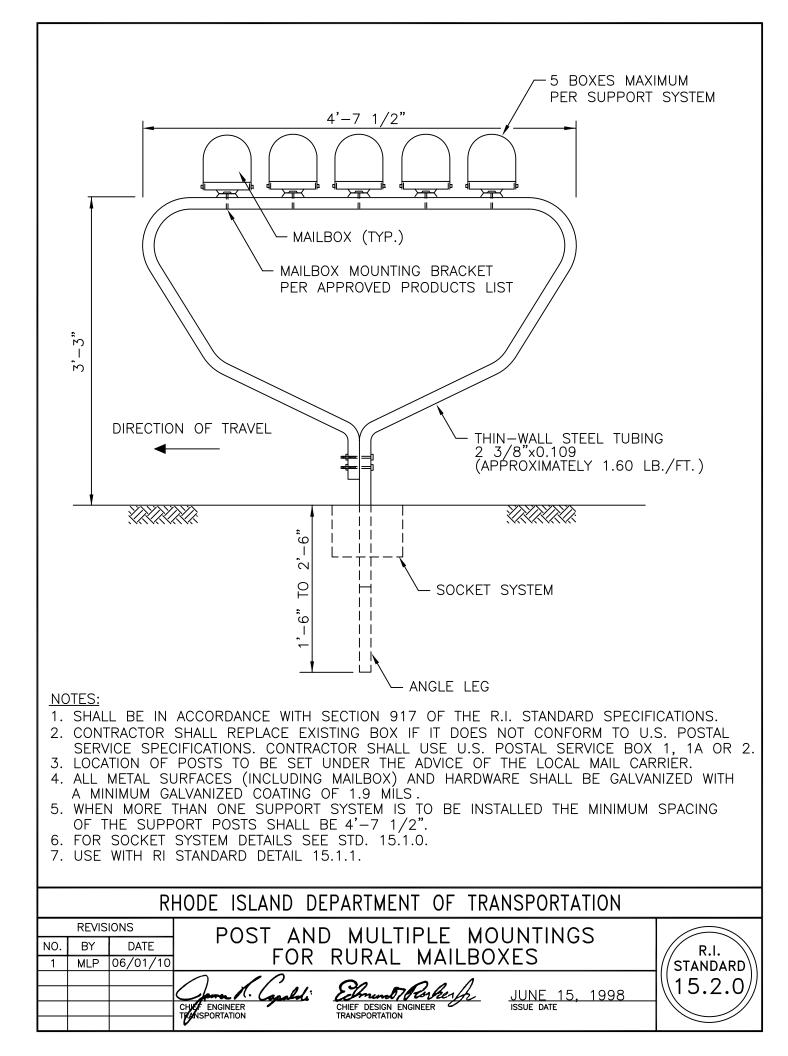


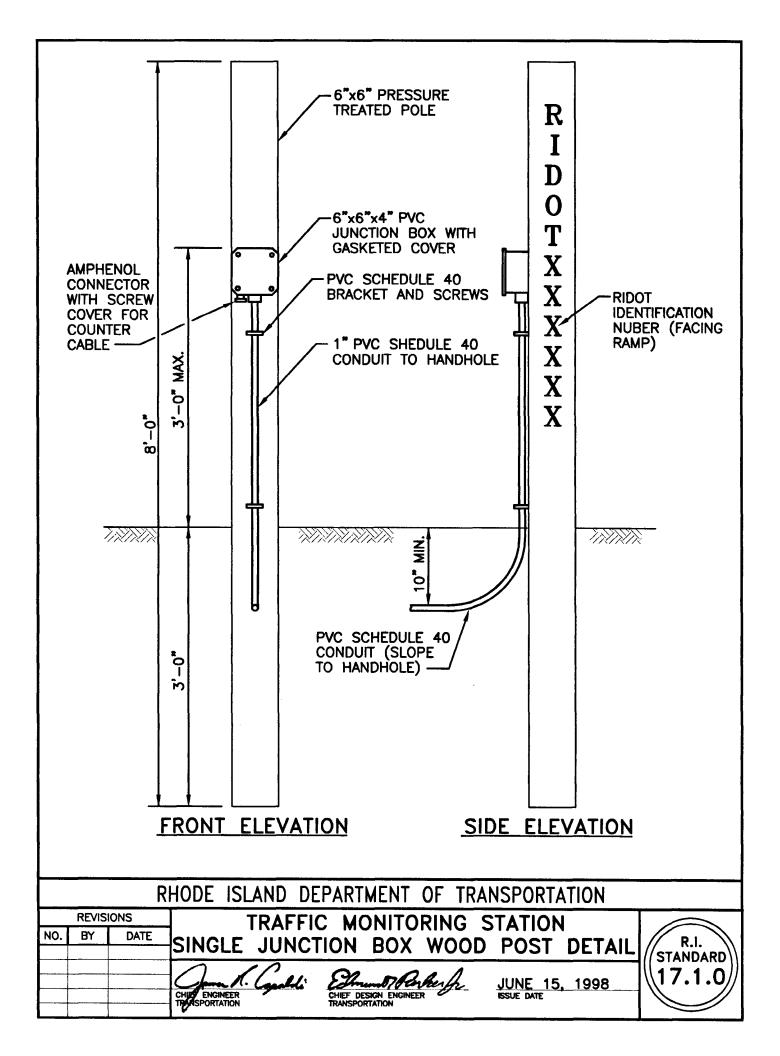
NOTE: WEDGE SHALL BE OF SEASONED OAK AND FREE OF KNOTS.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS SURVEY WEDGE NO. BY DATE
CHIEF ENGINEER CHIEF ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER ISSUE DATE SSUE DATE

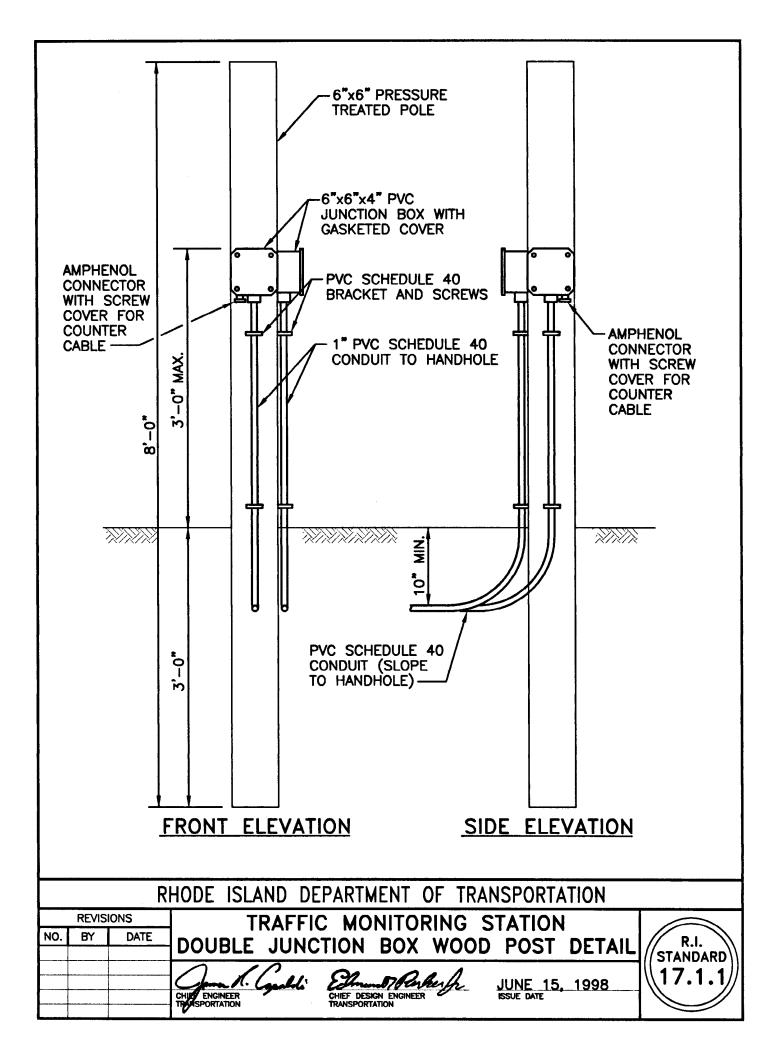


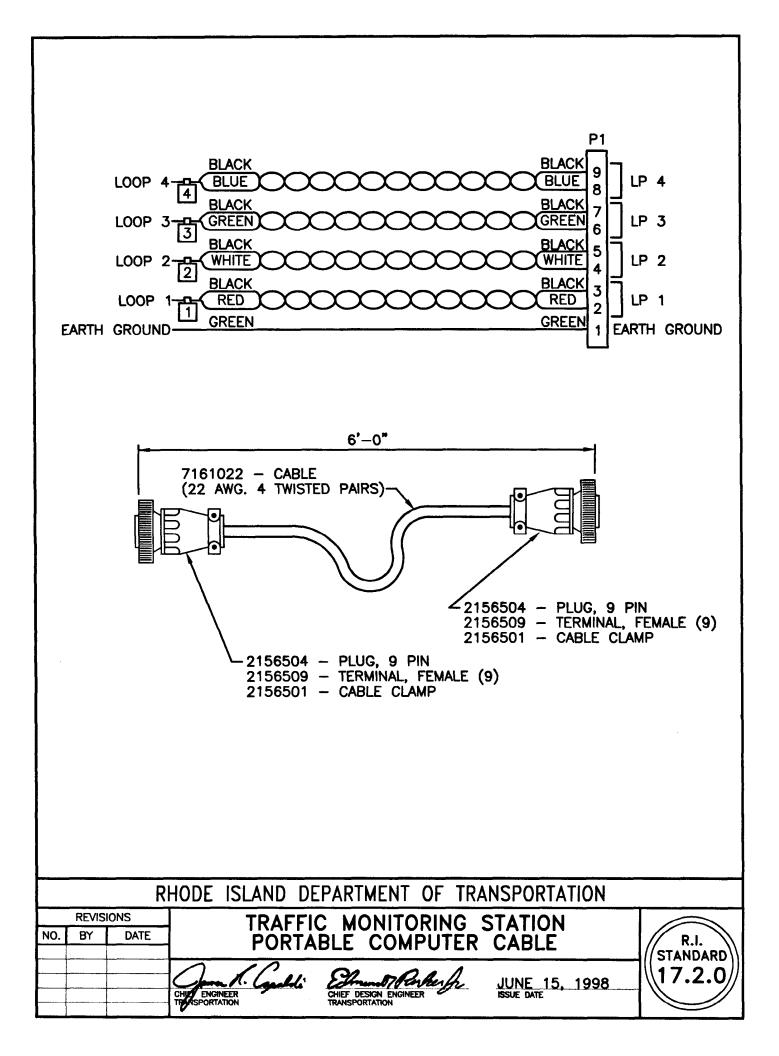


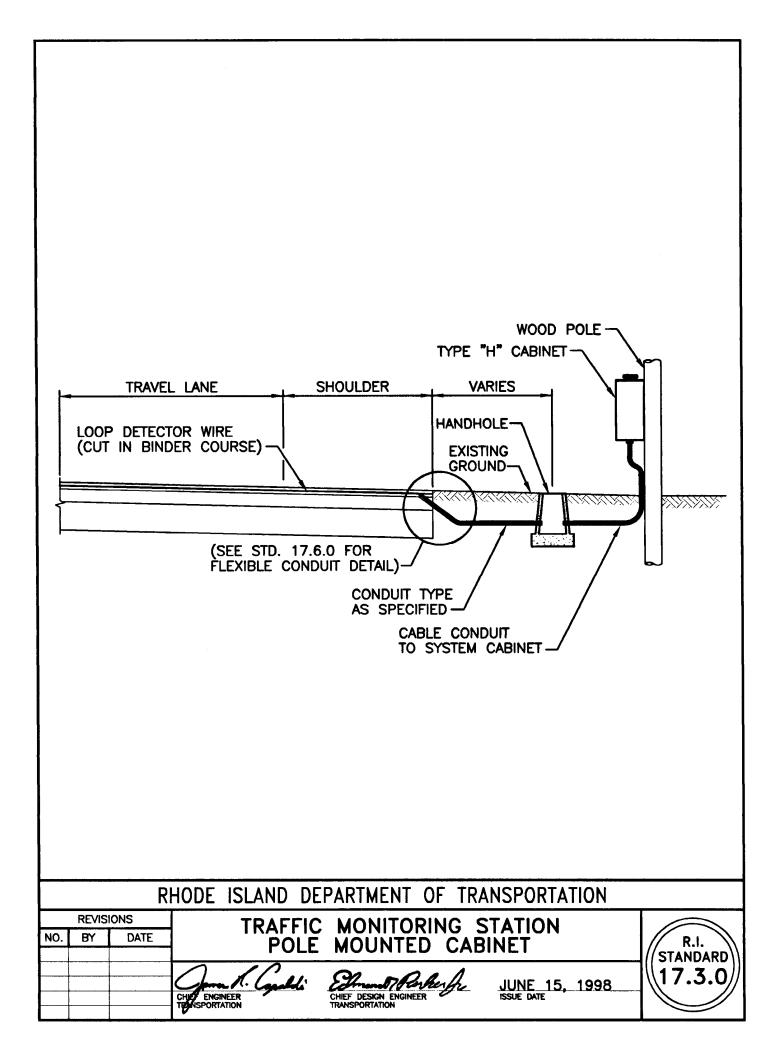


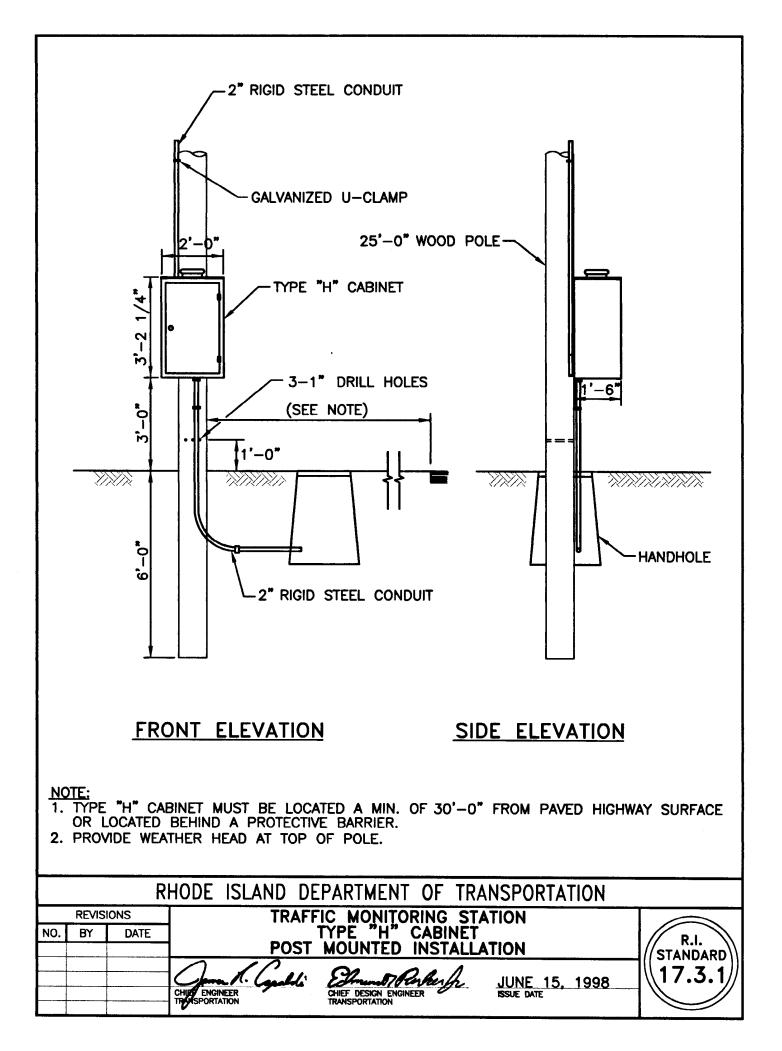


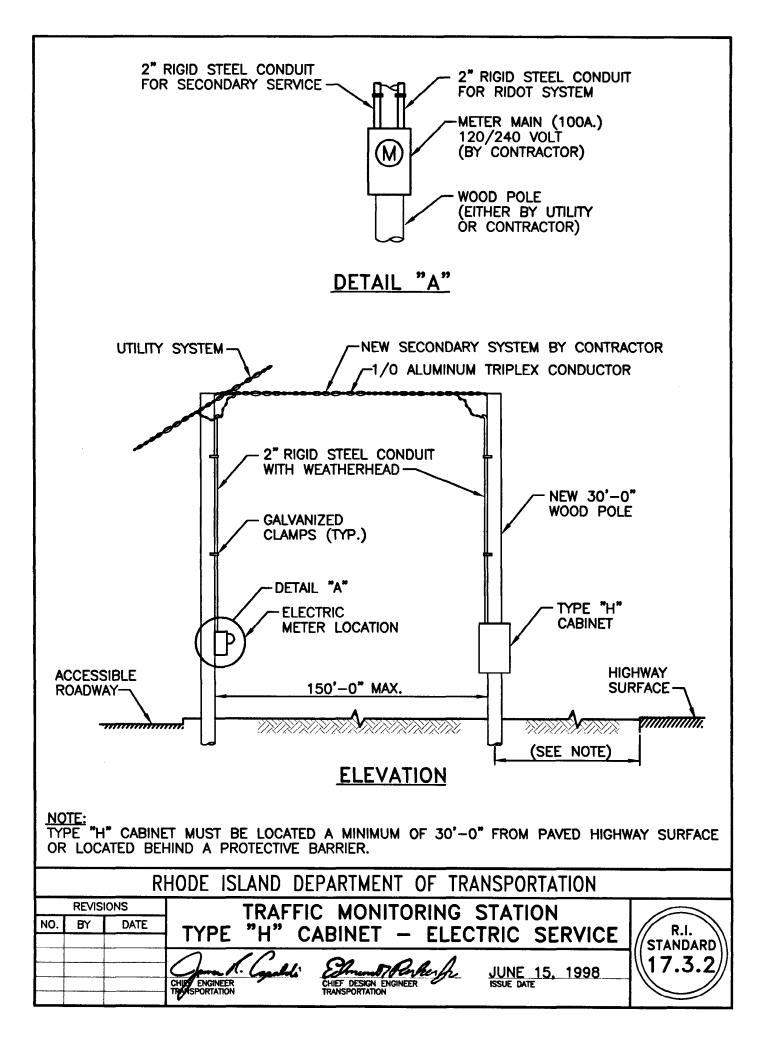


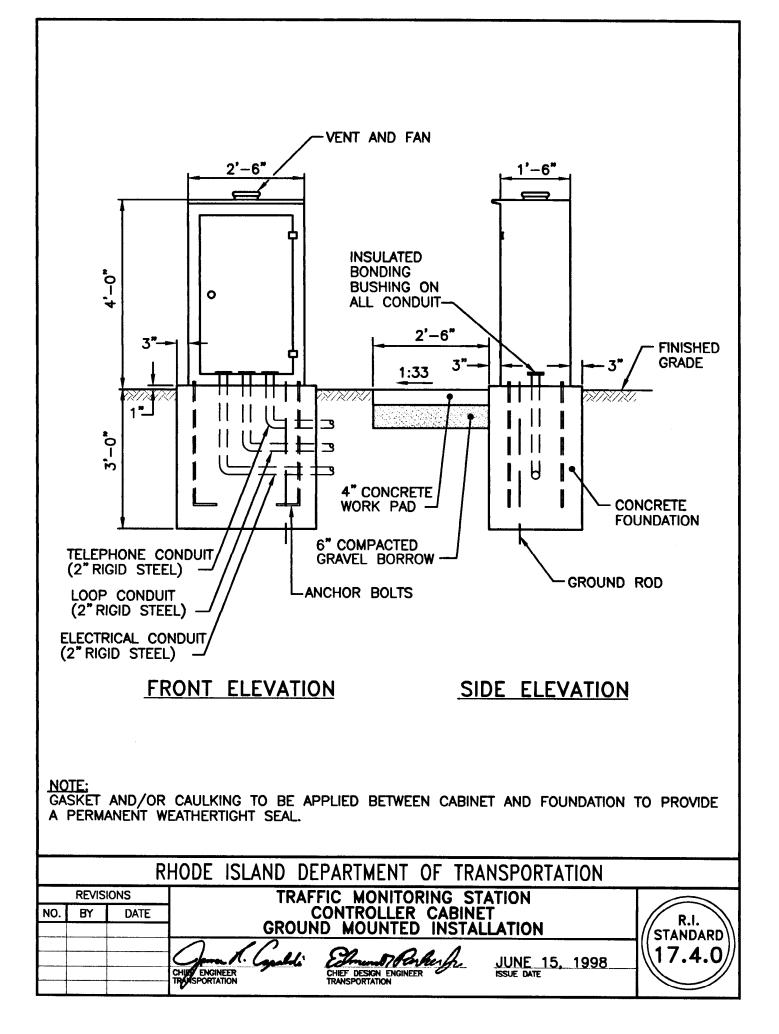


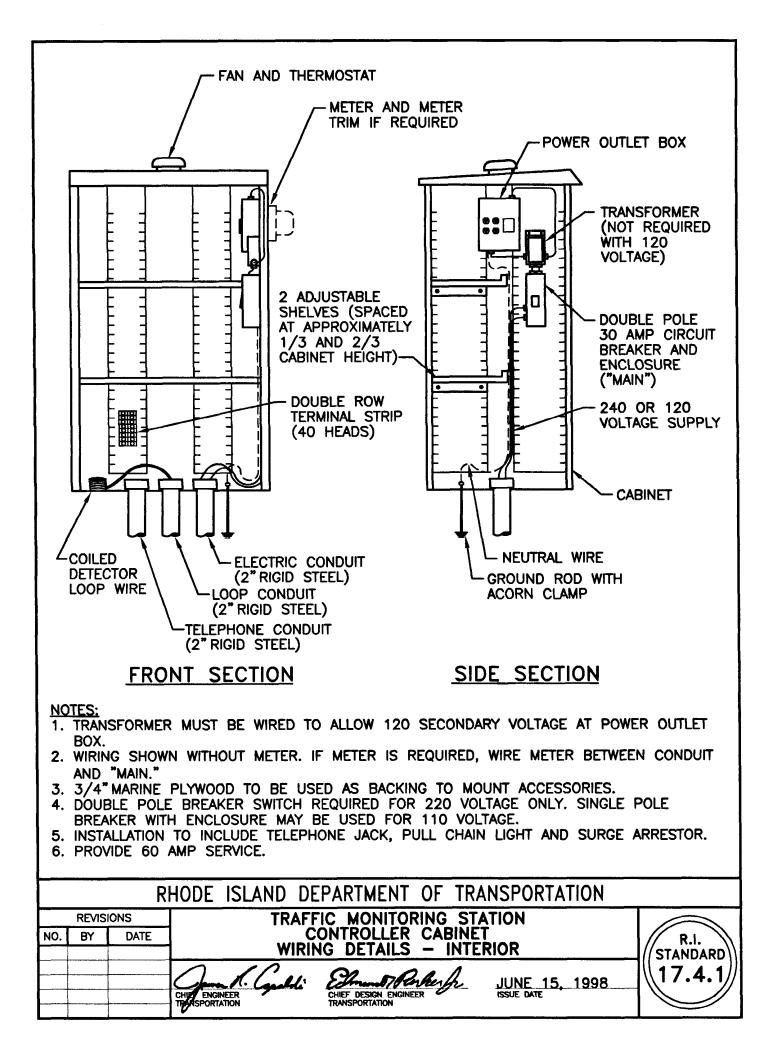


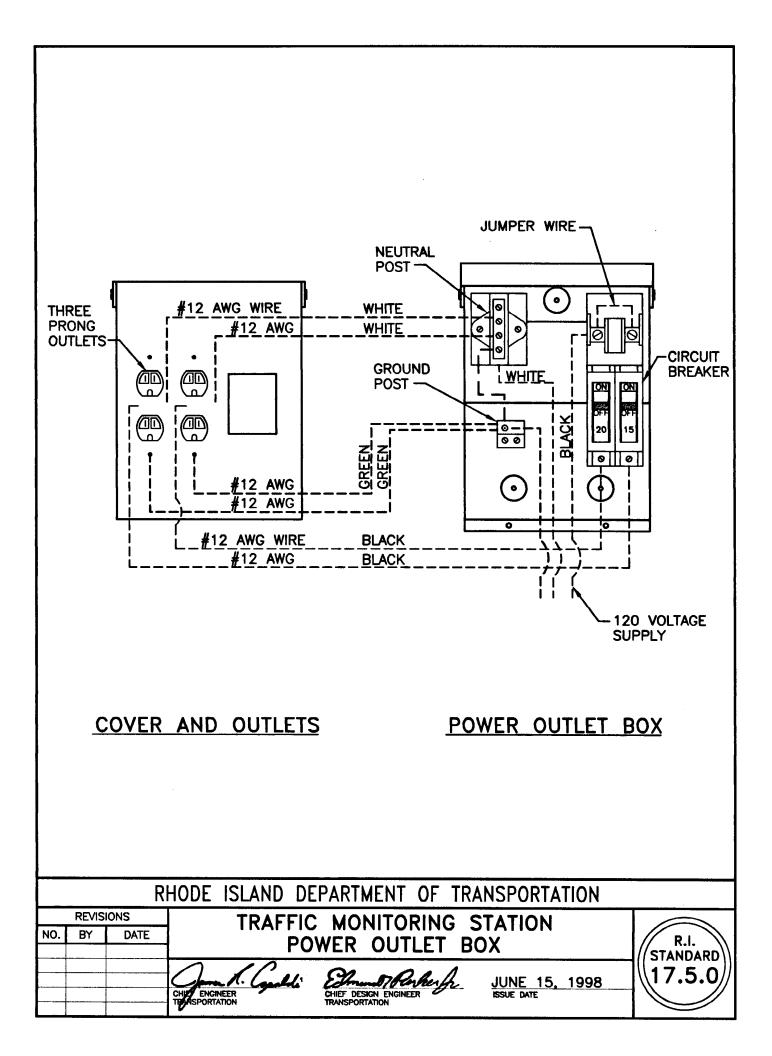


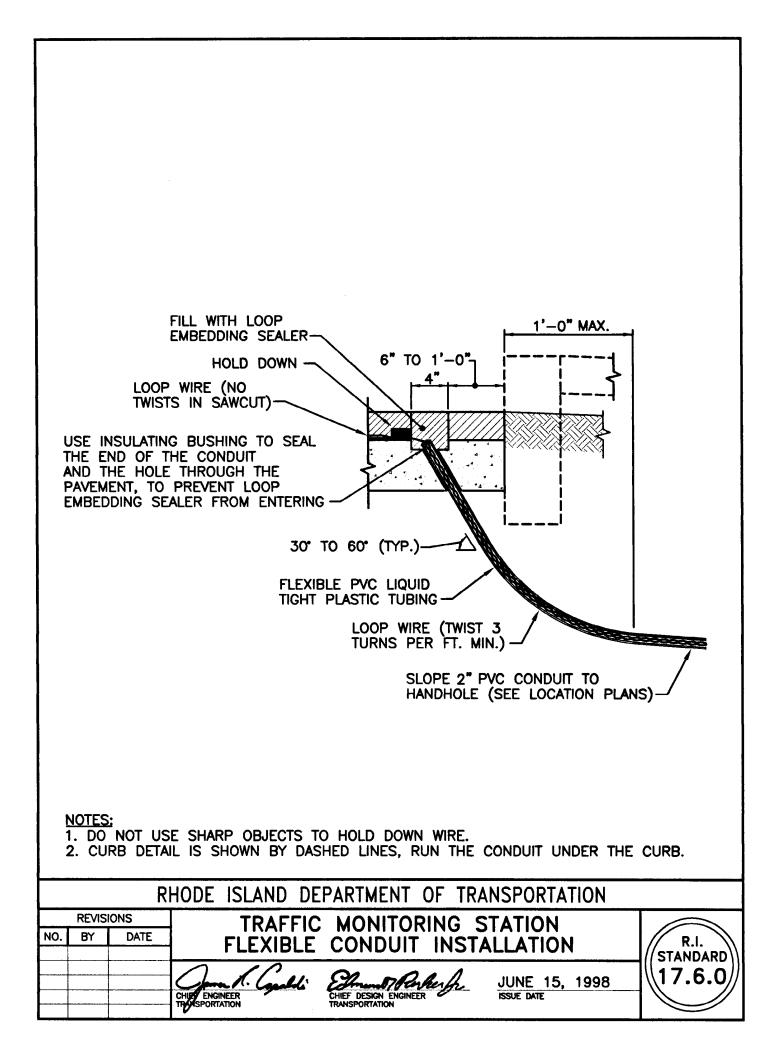


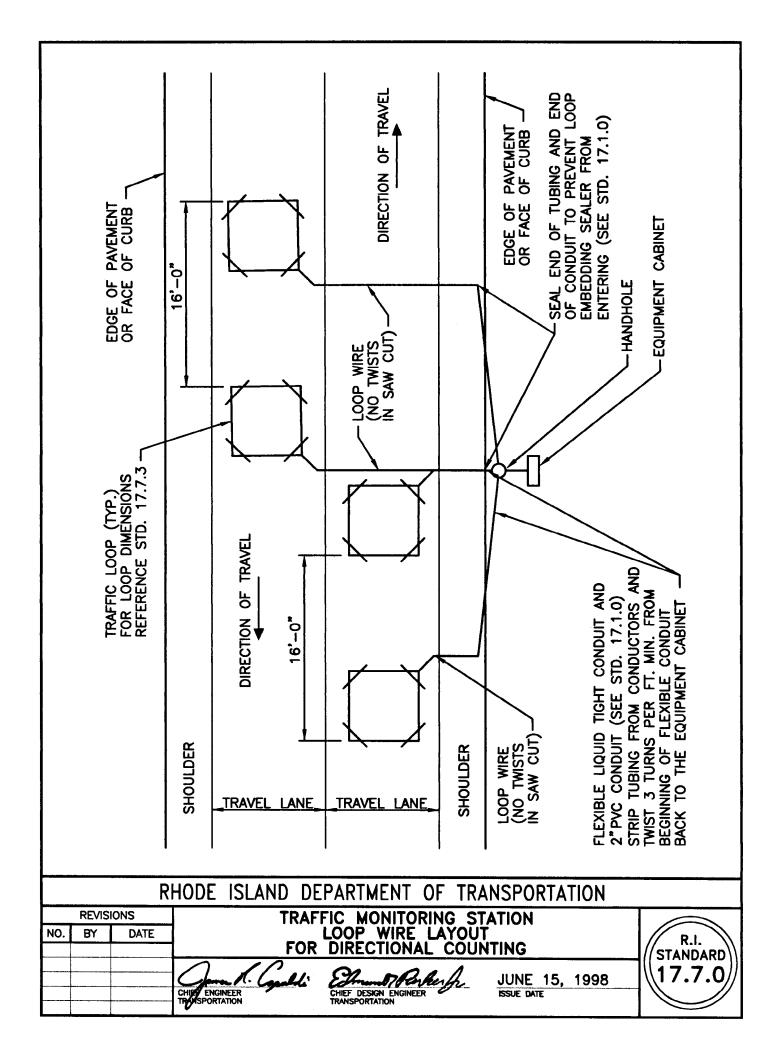


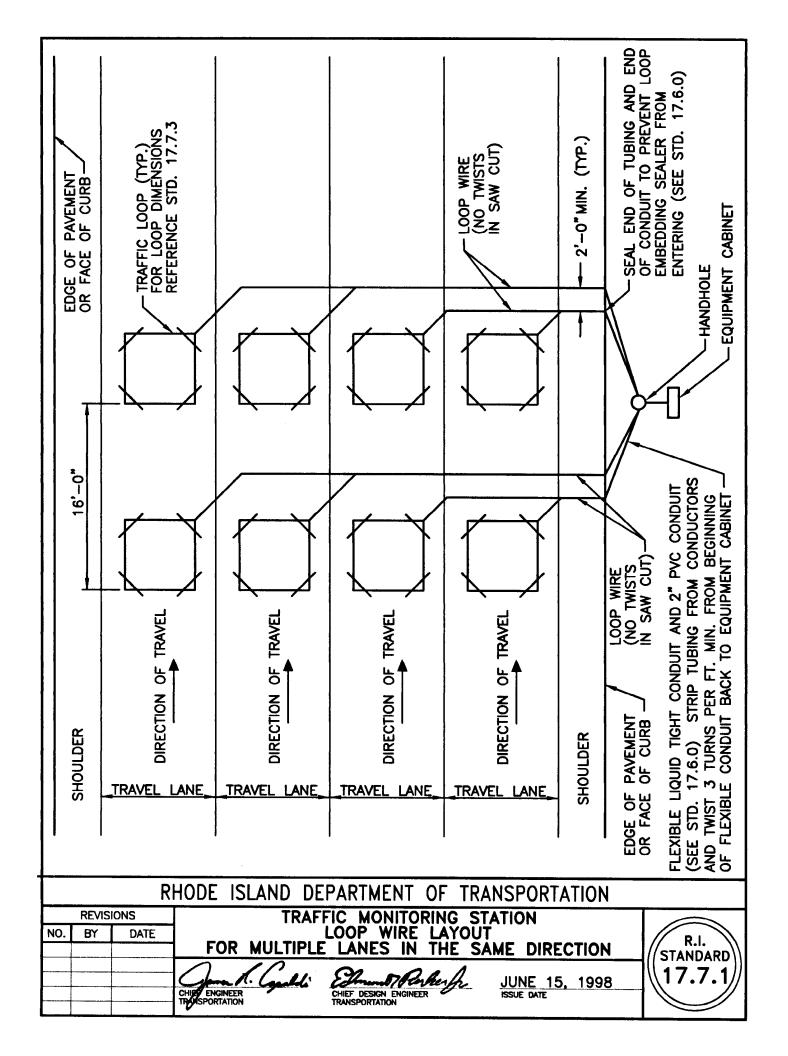


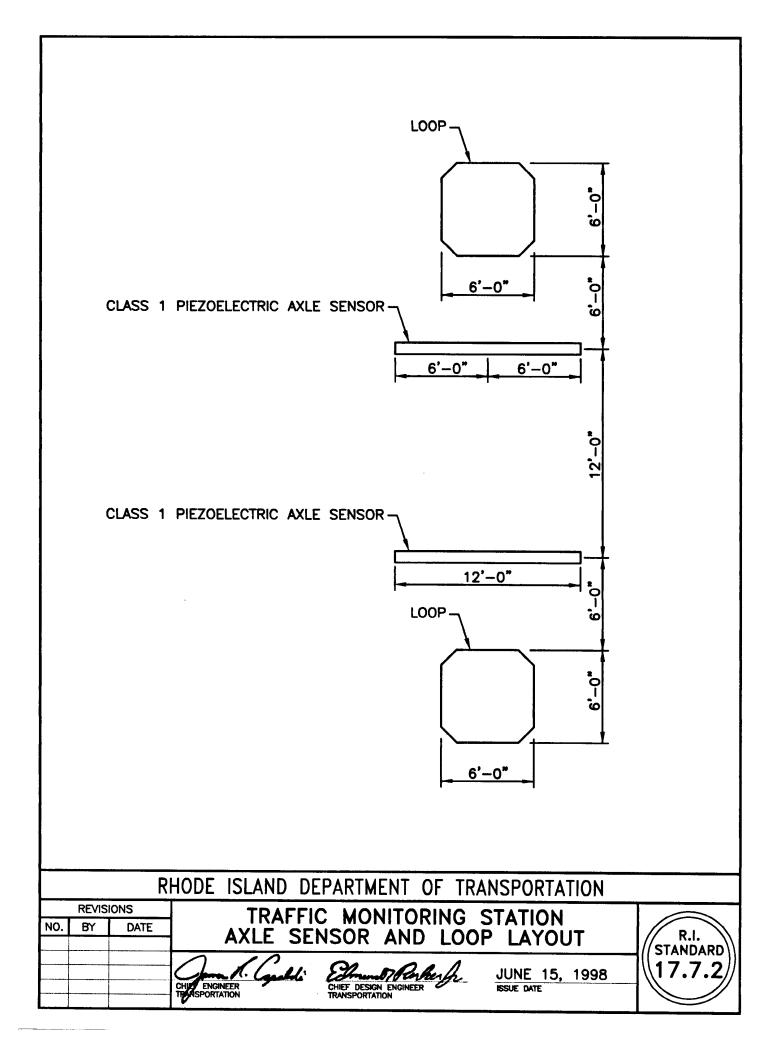


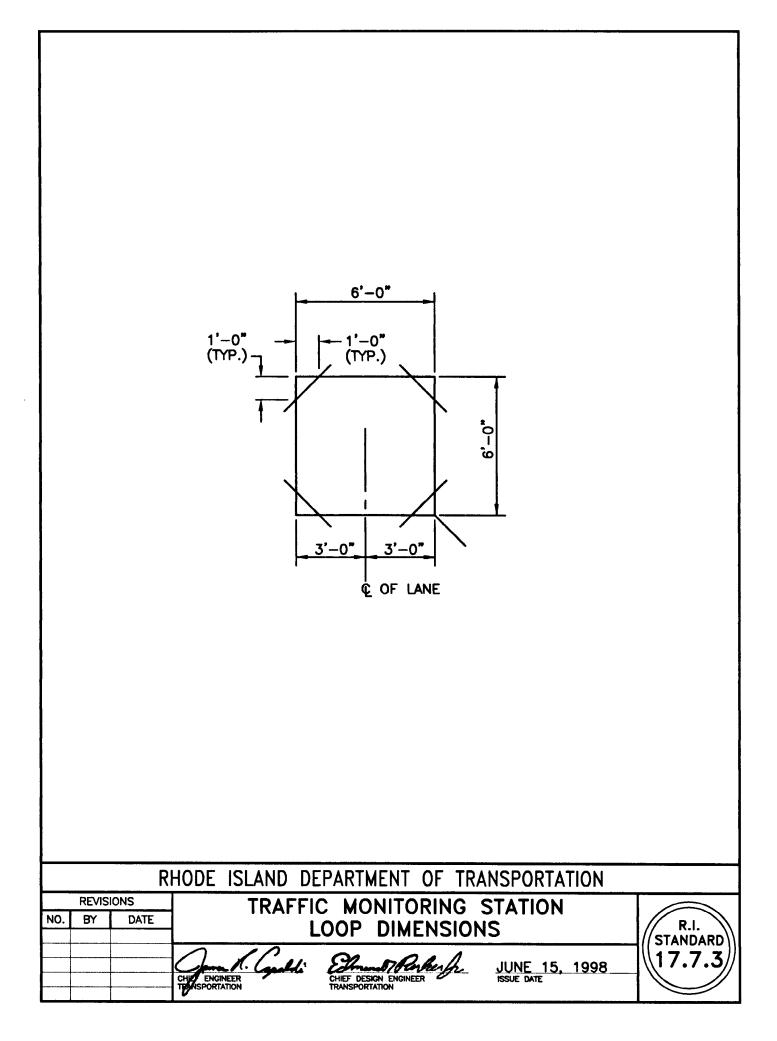


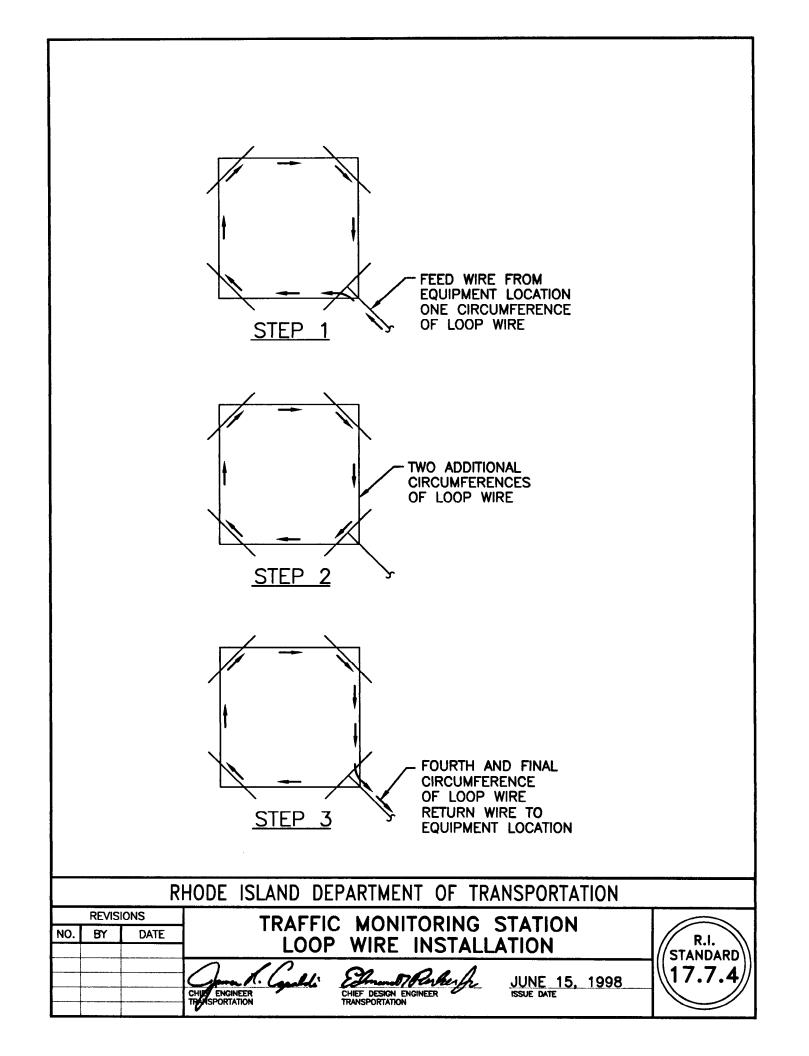


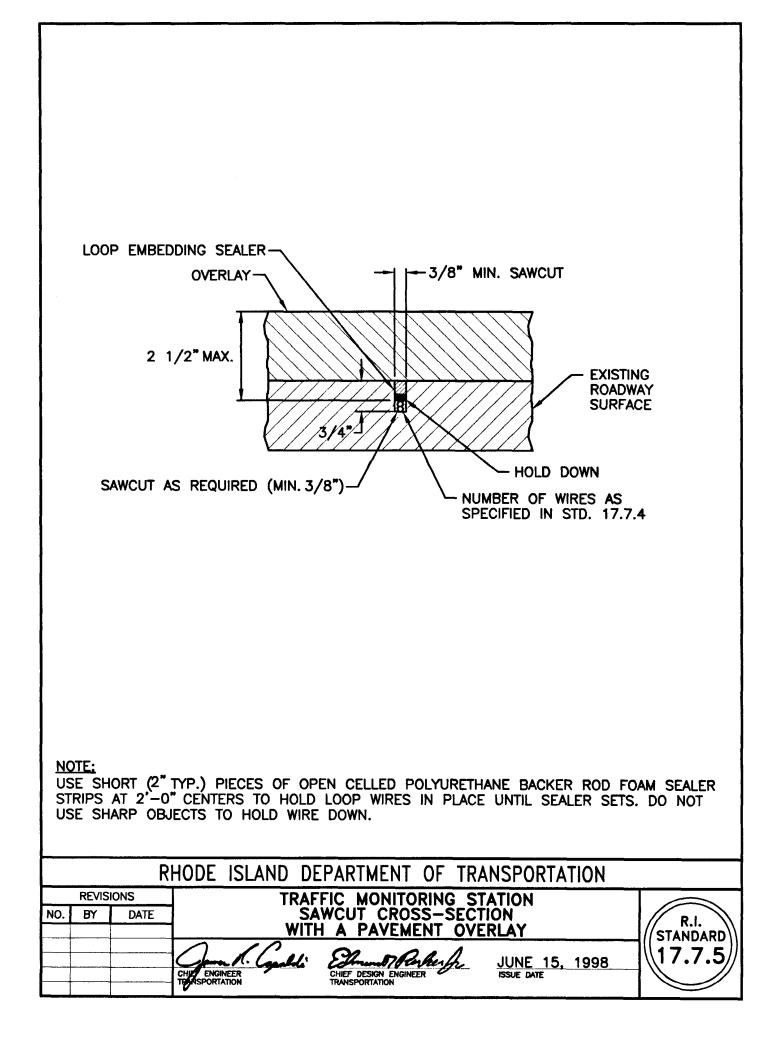


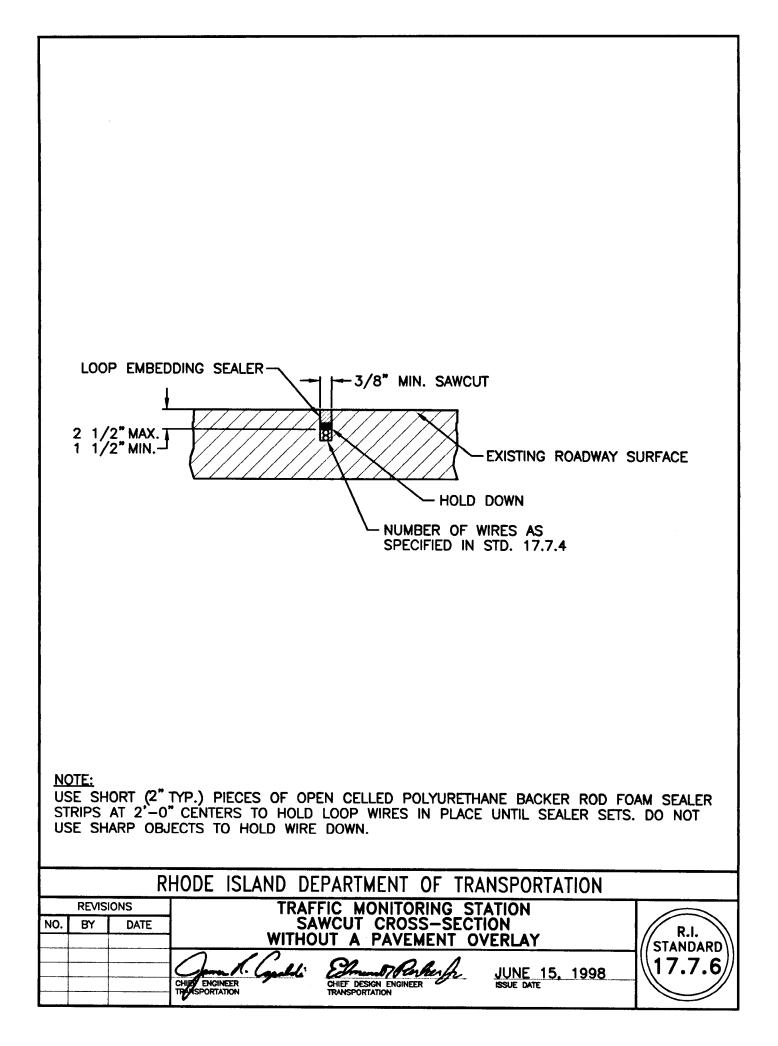


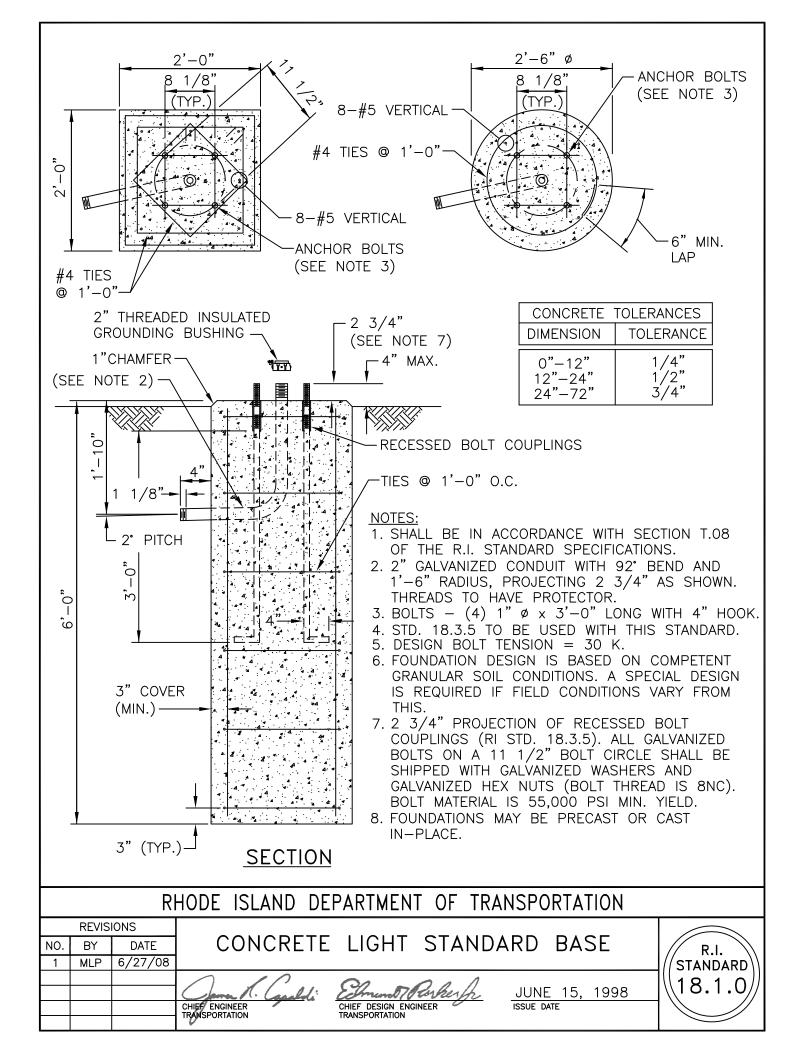


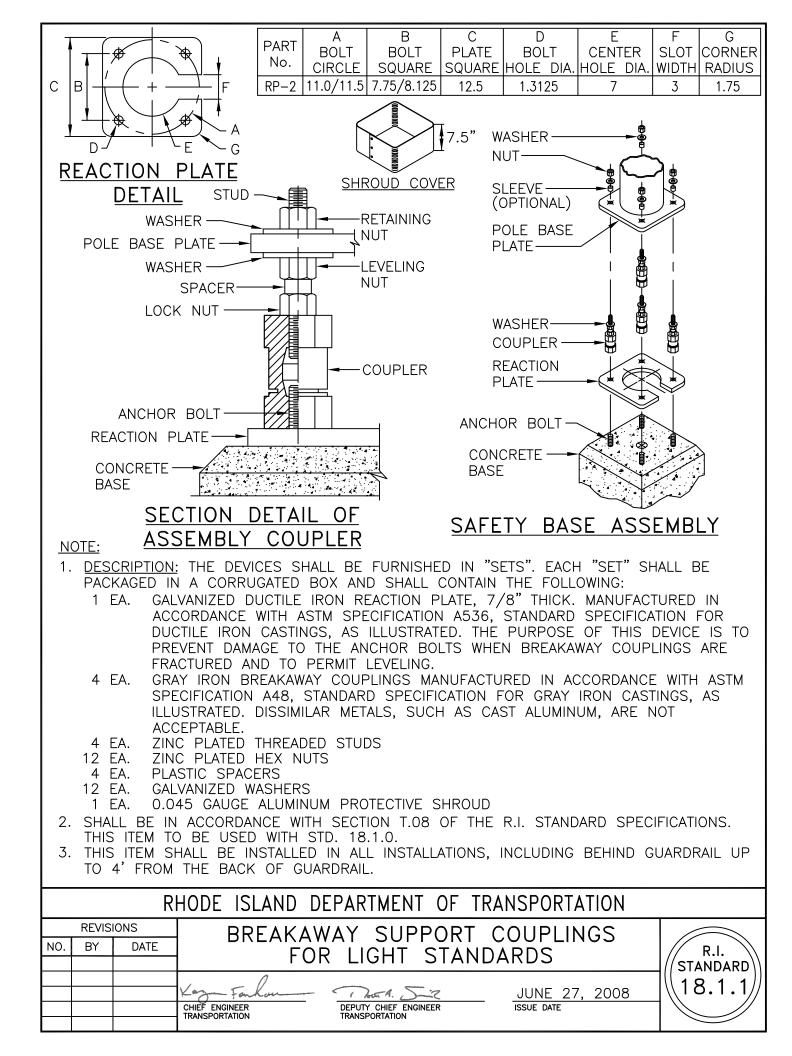


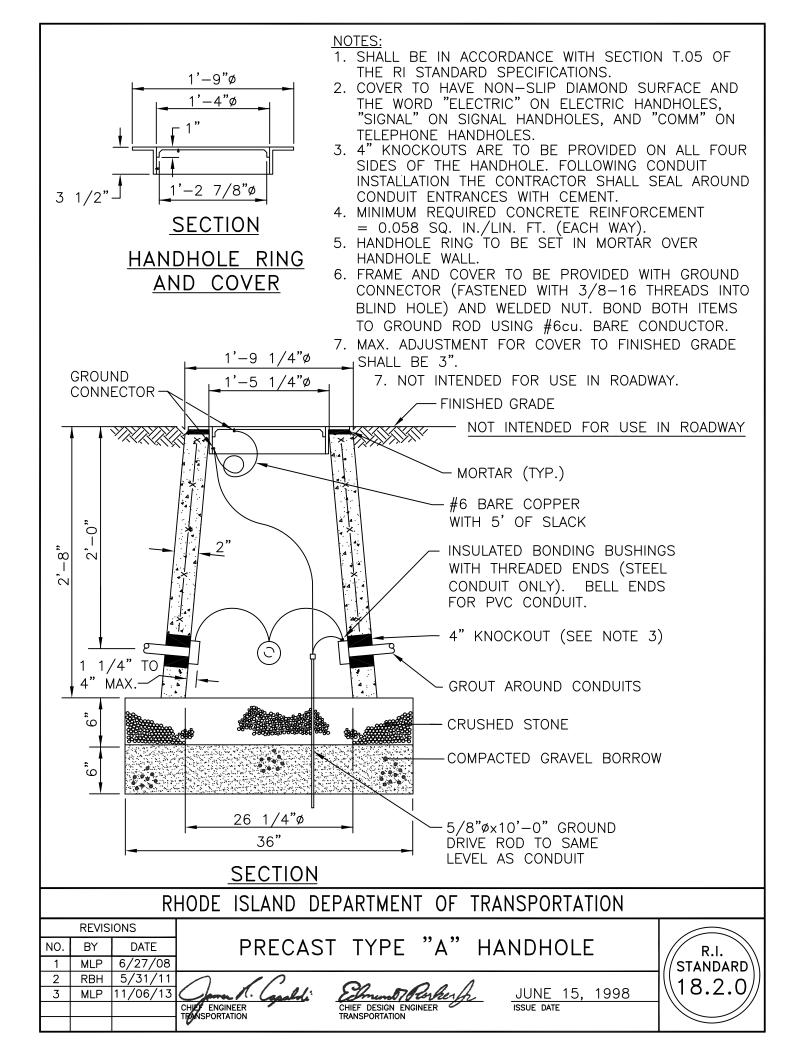


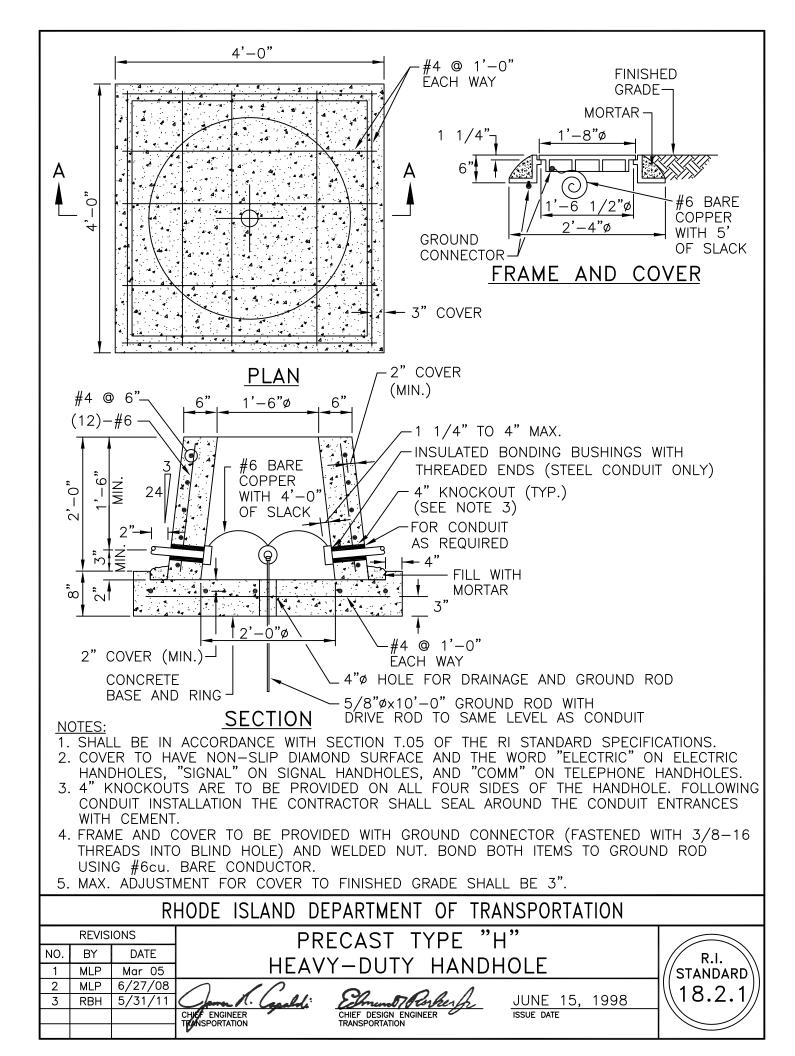


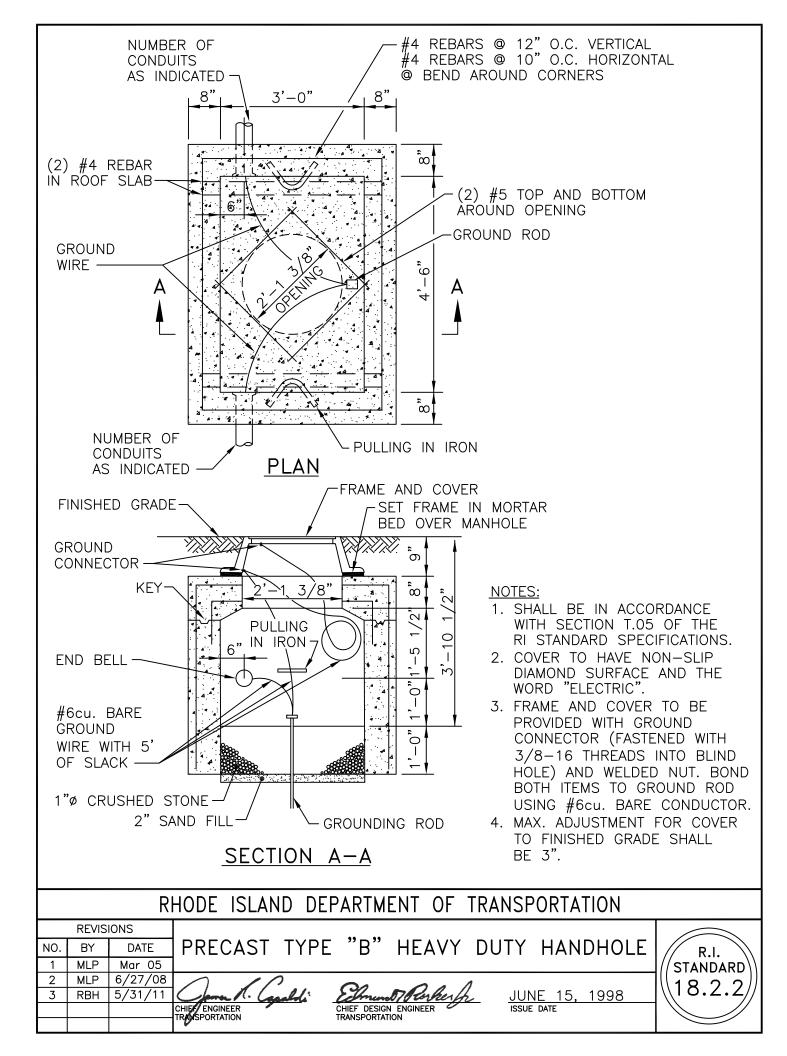


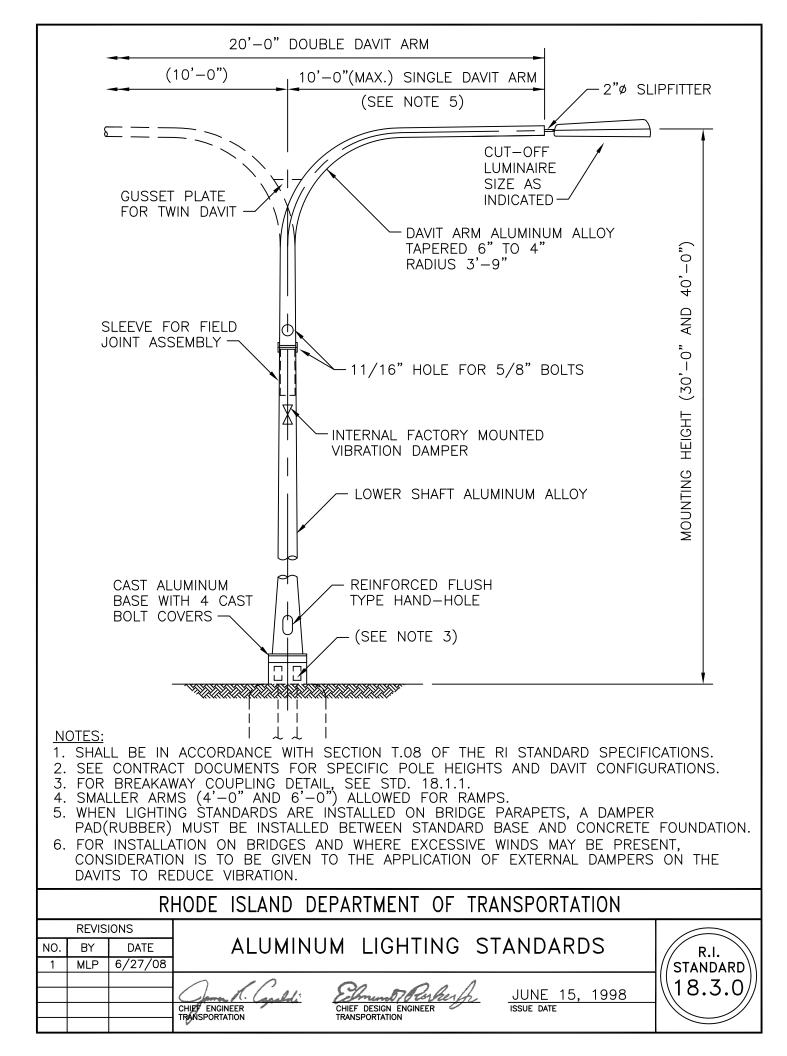


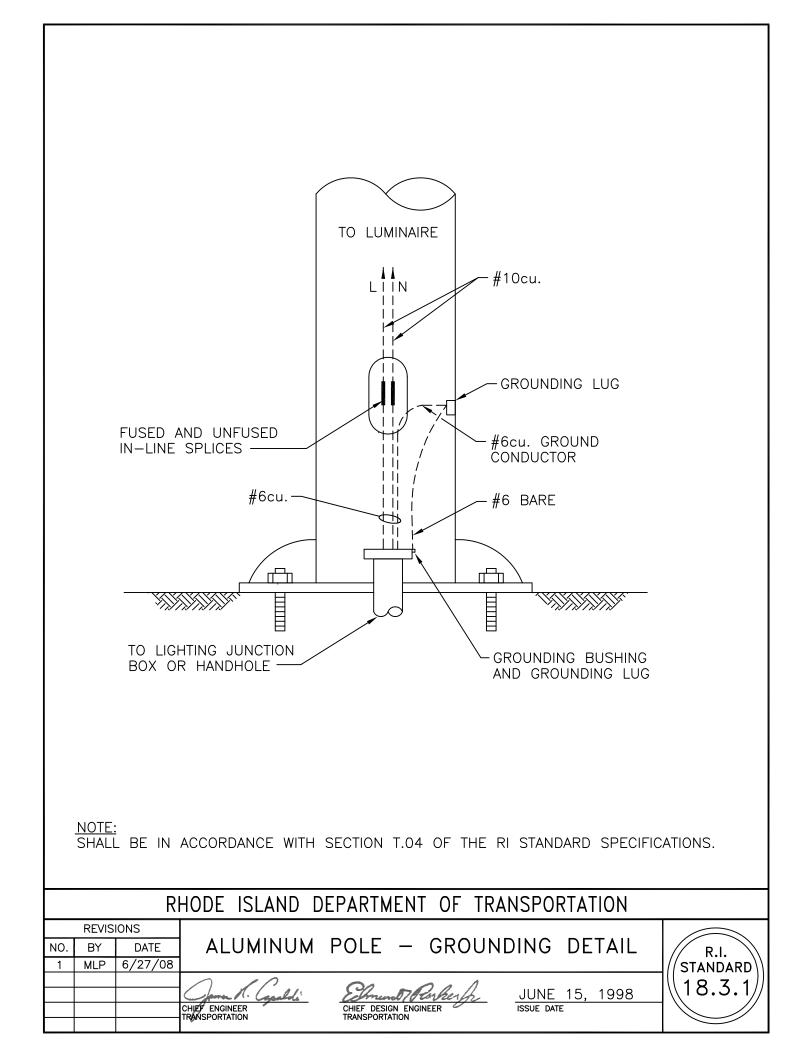


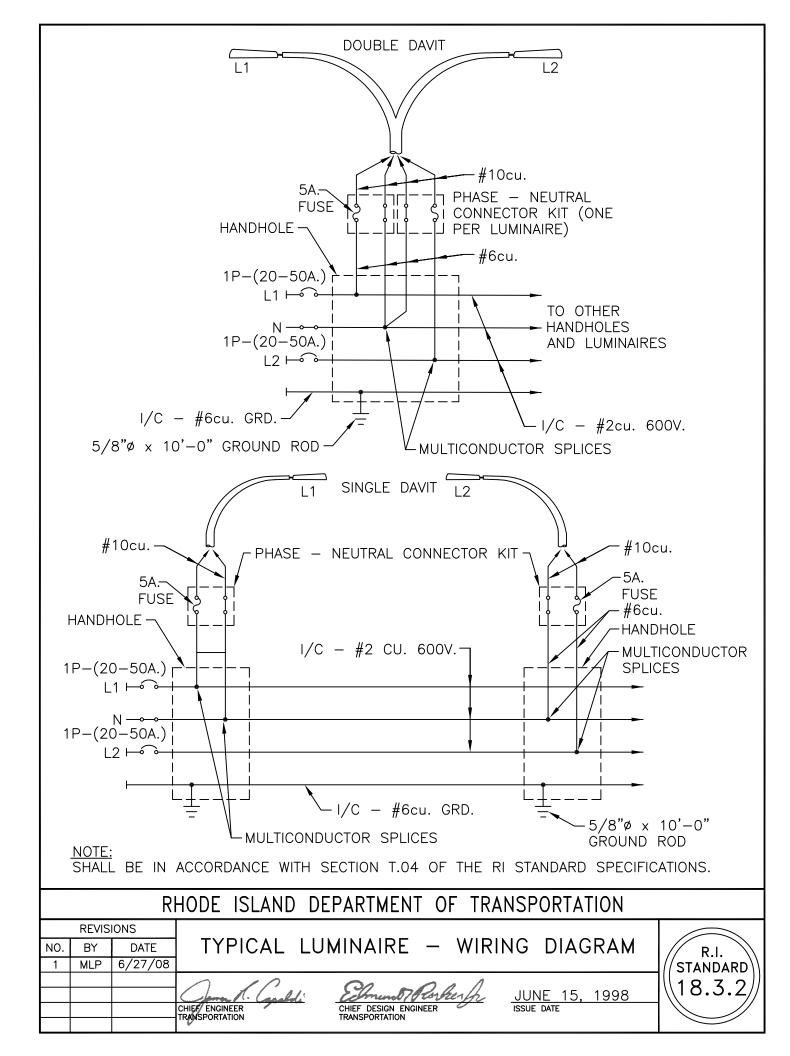


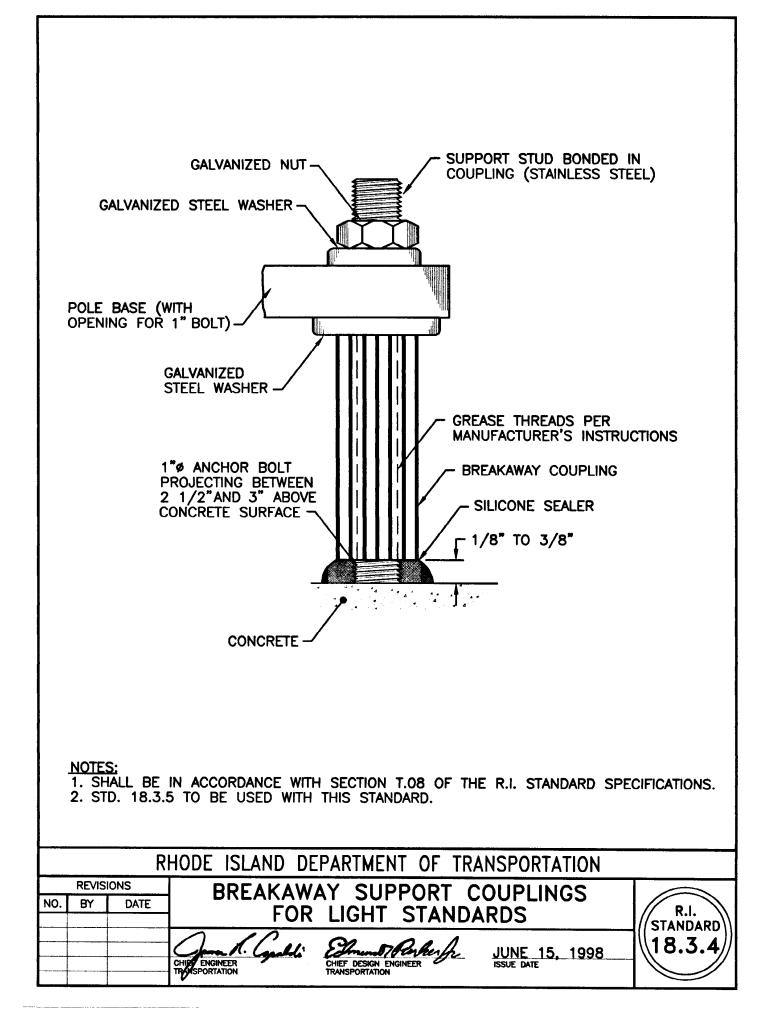


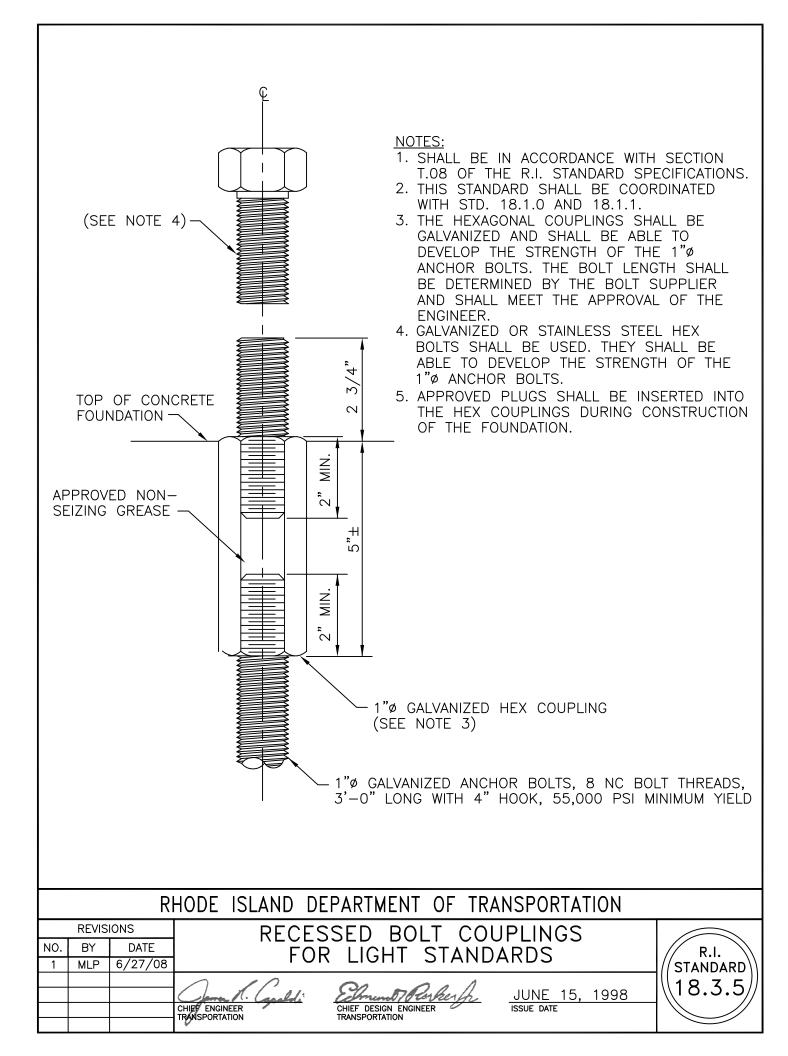


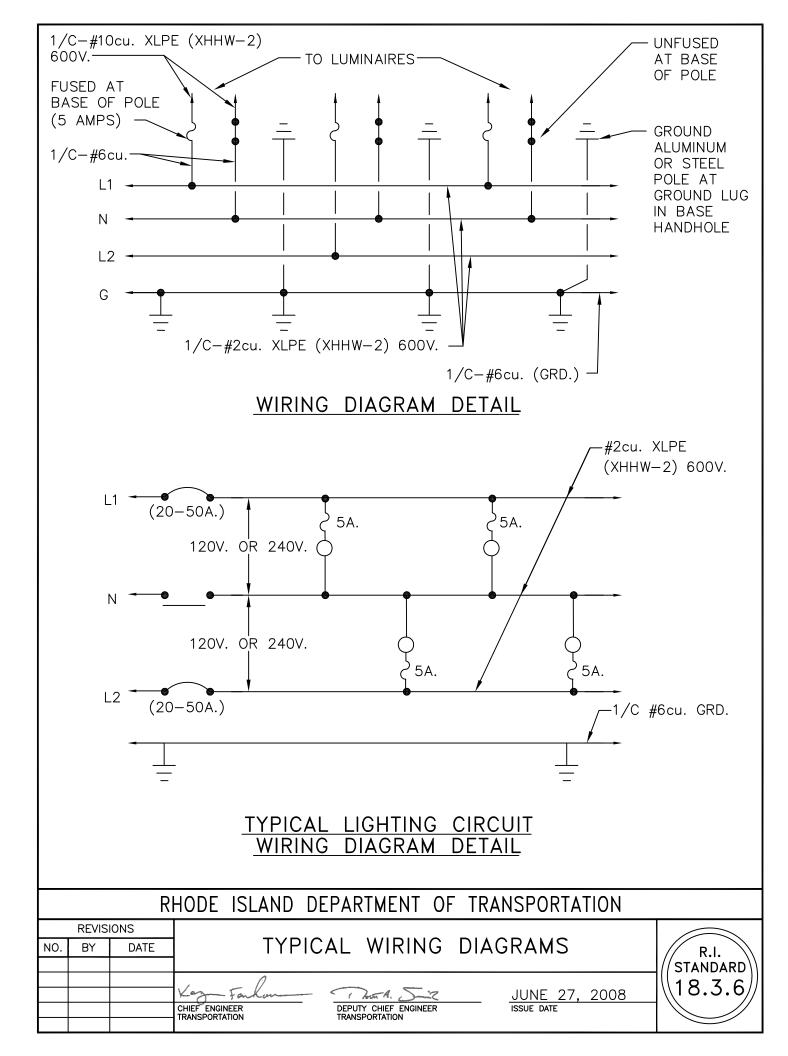


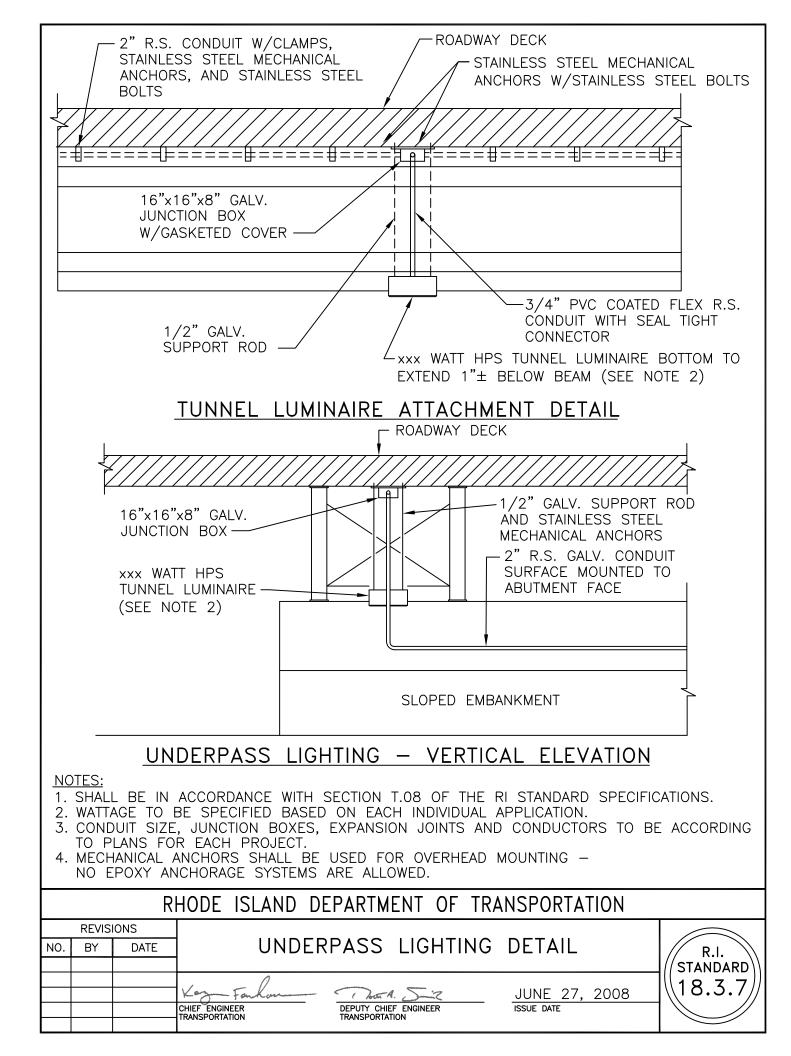


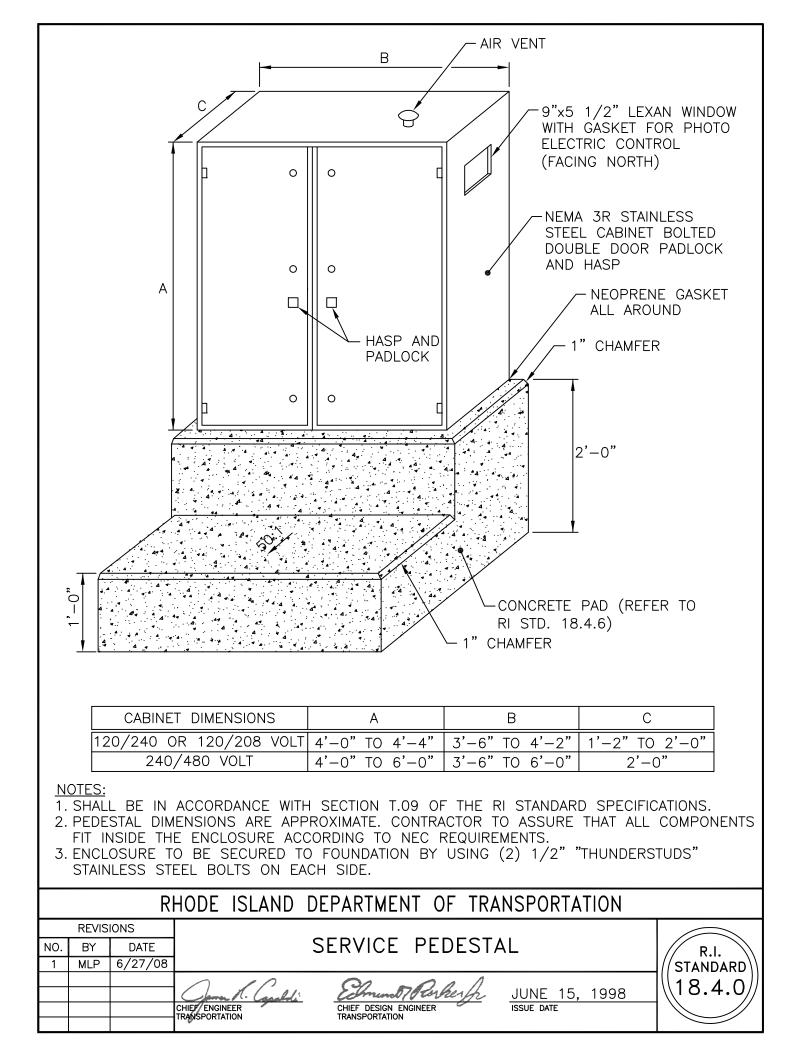


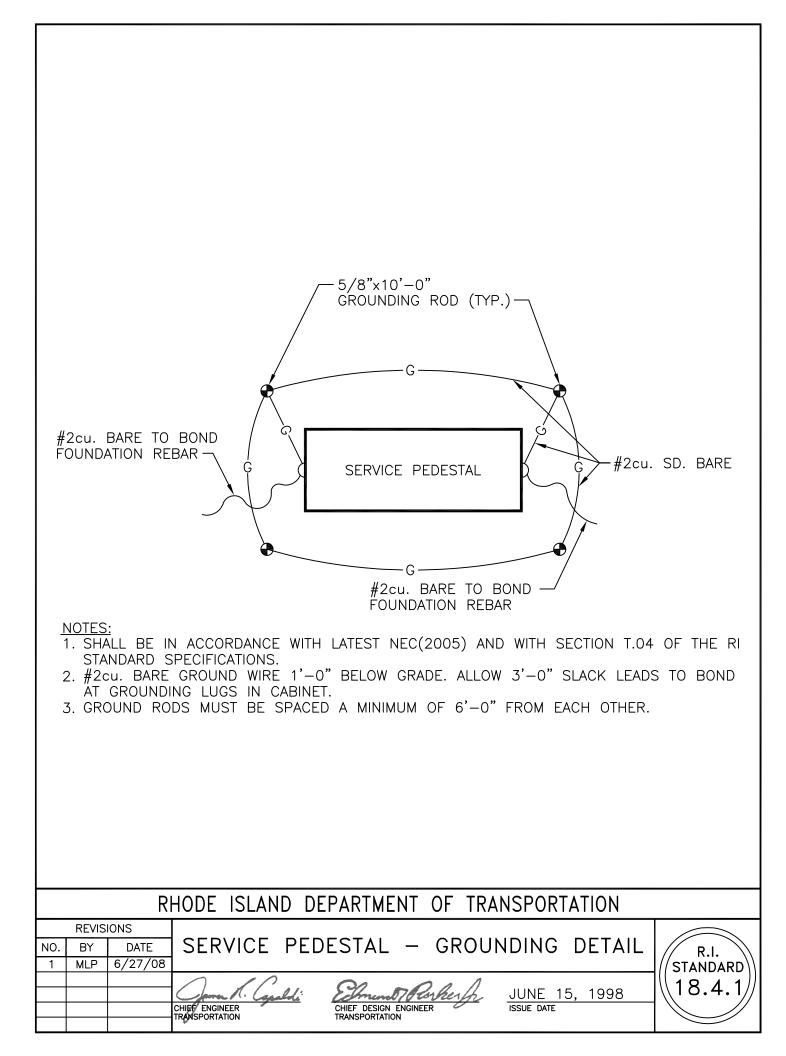


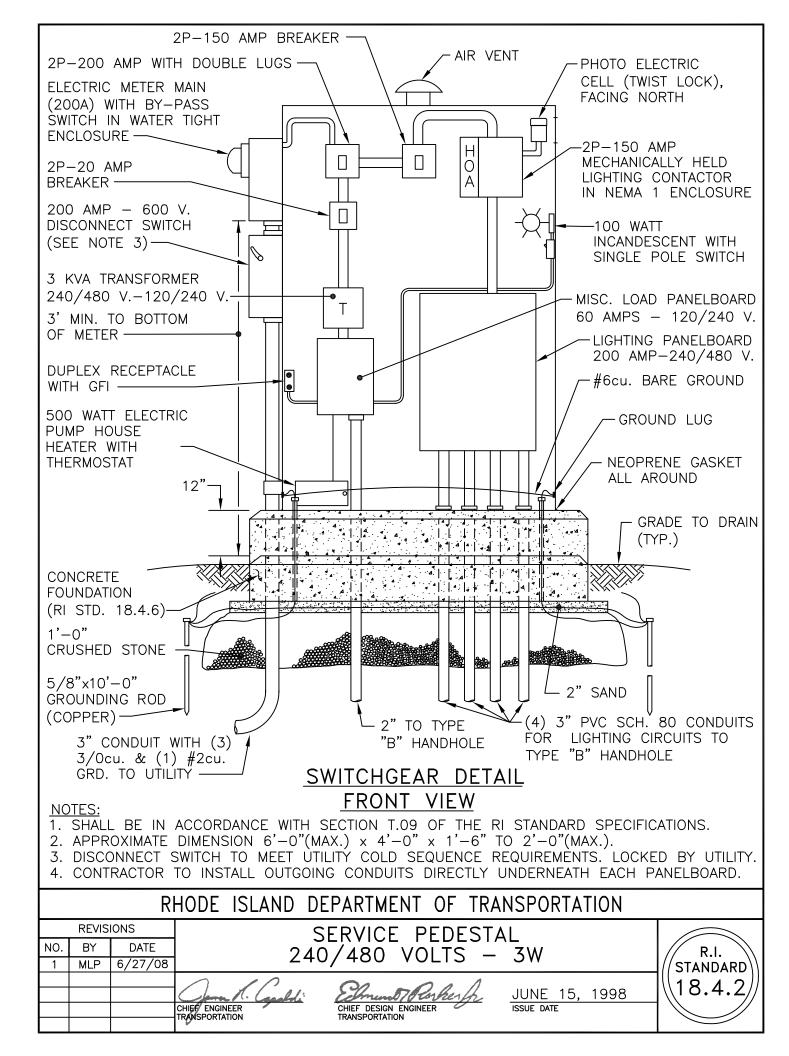


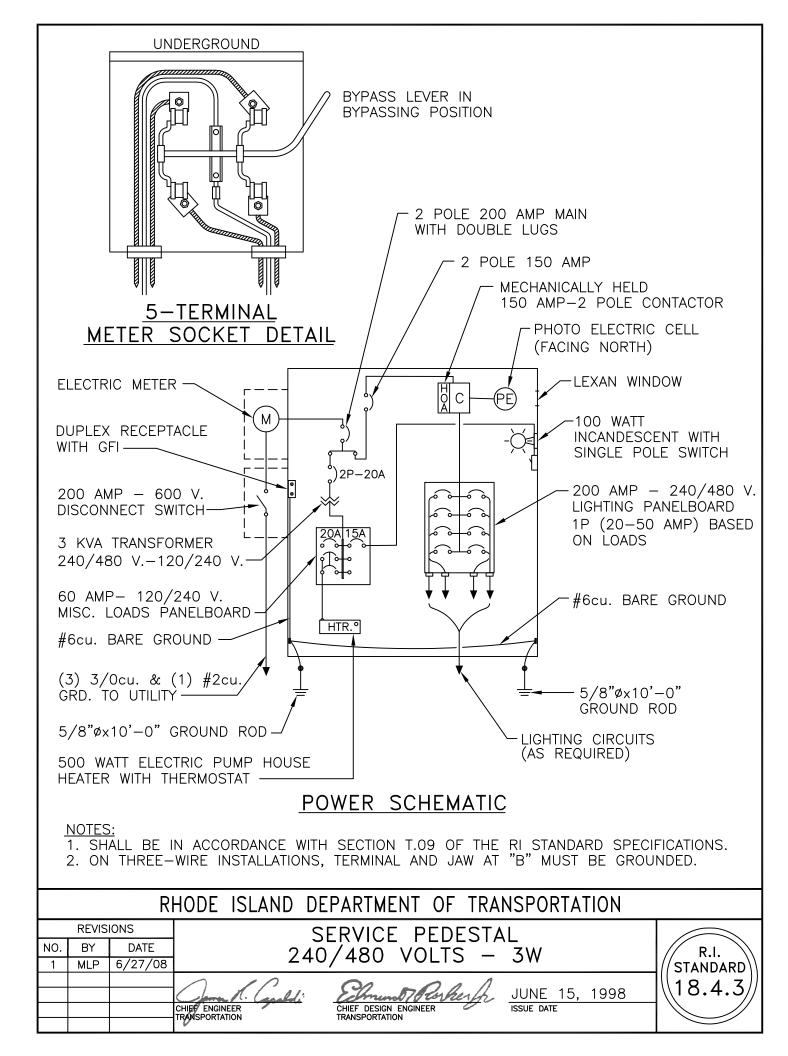


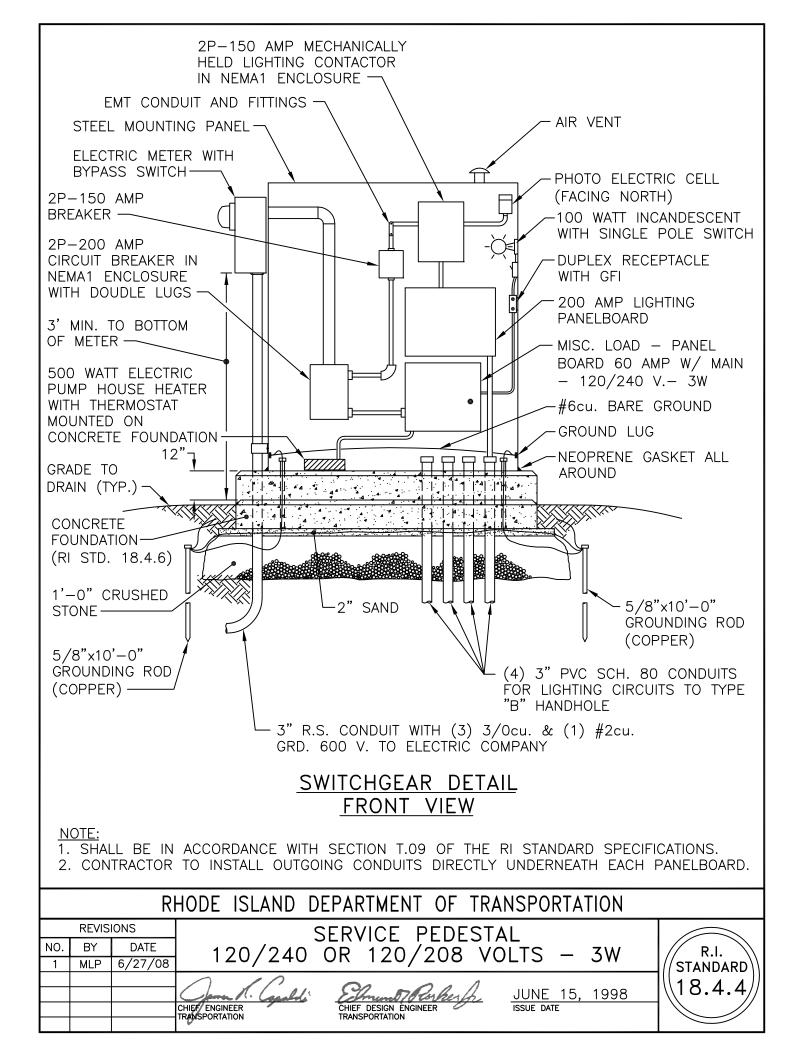


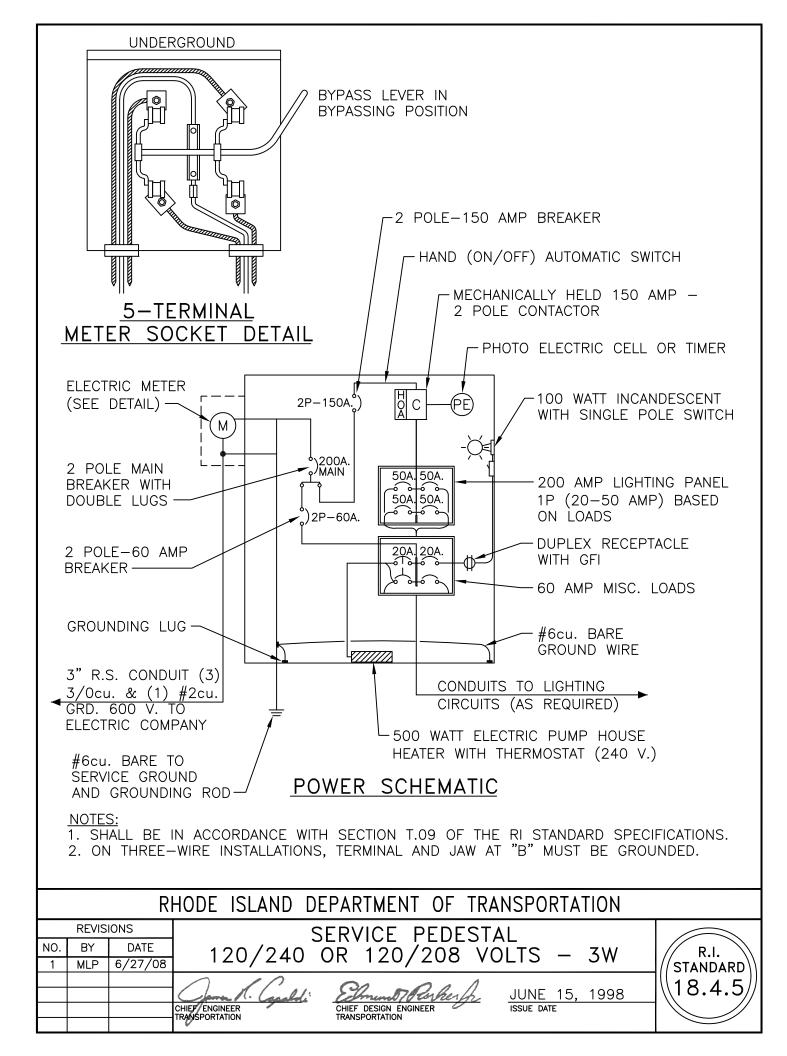


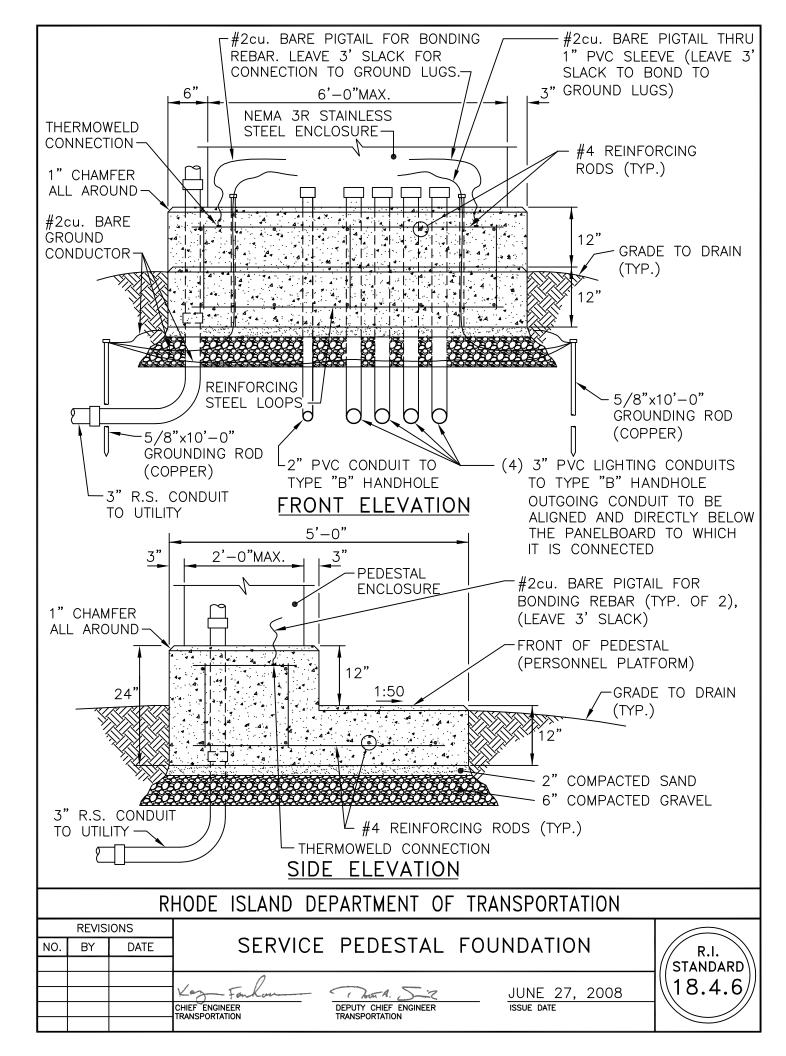


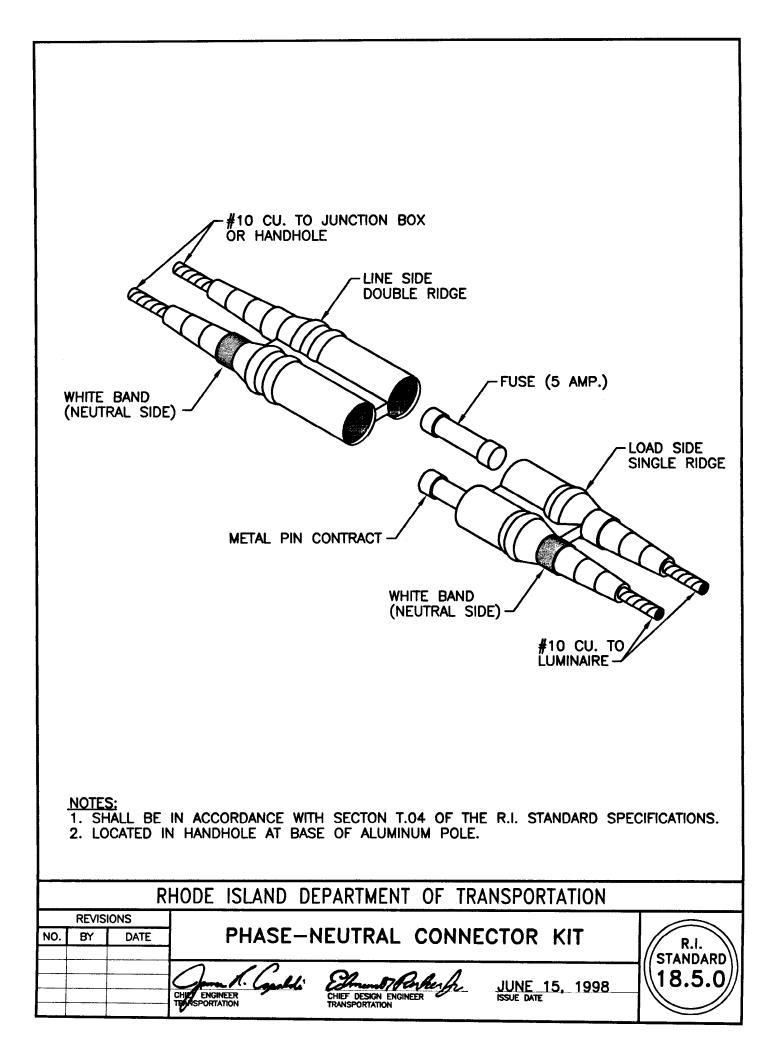


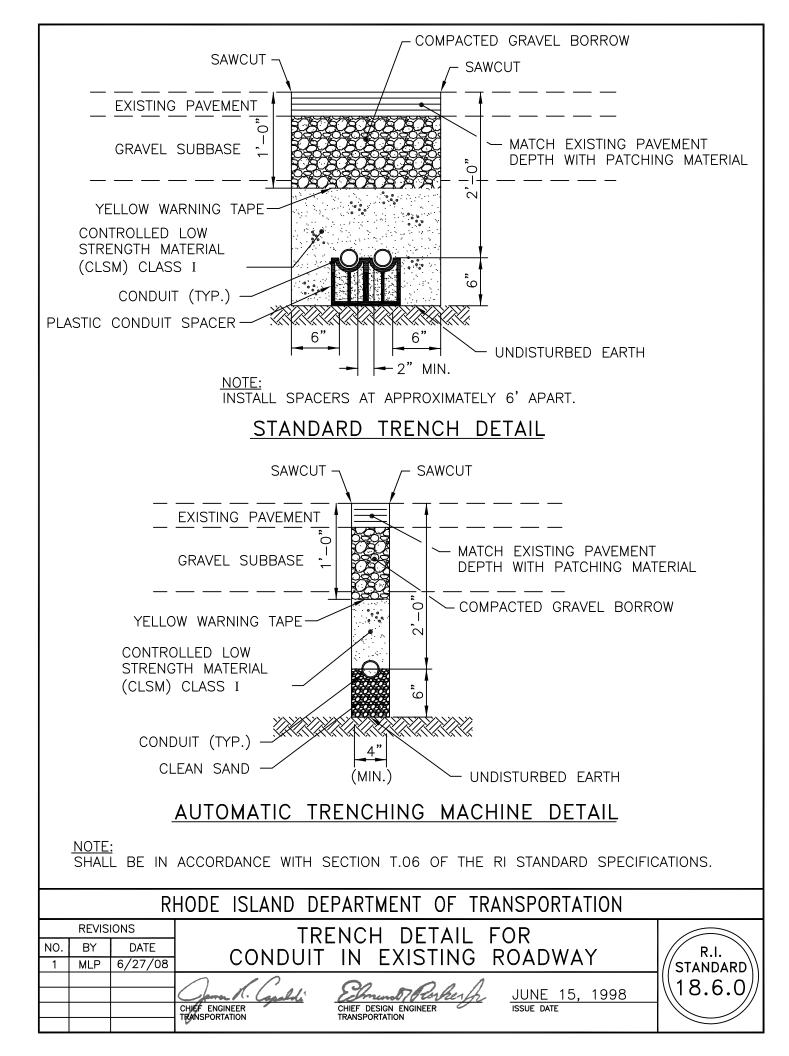


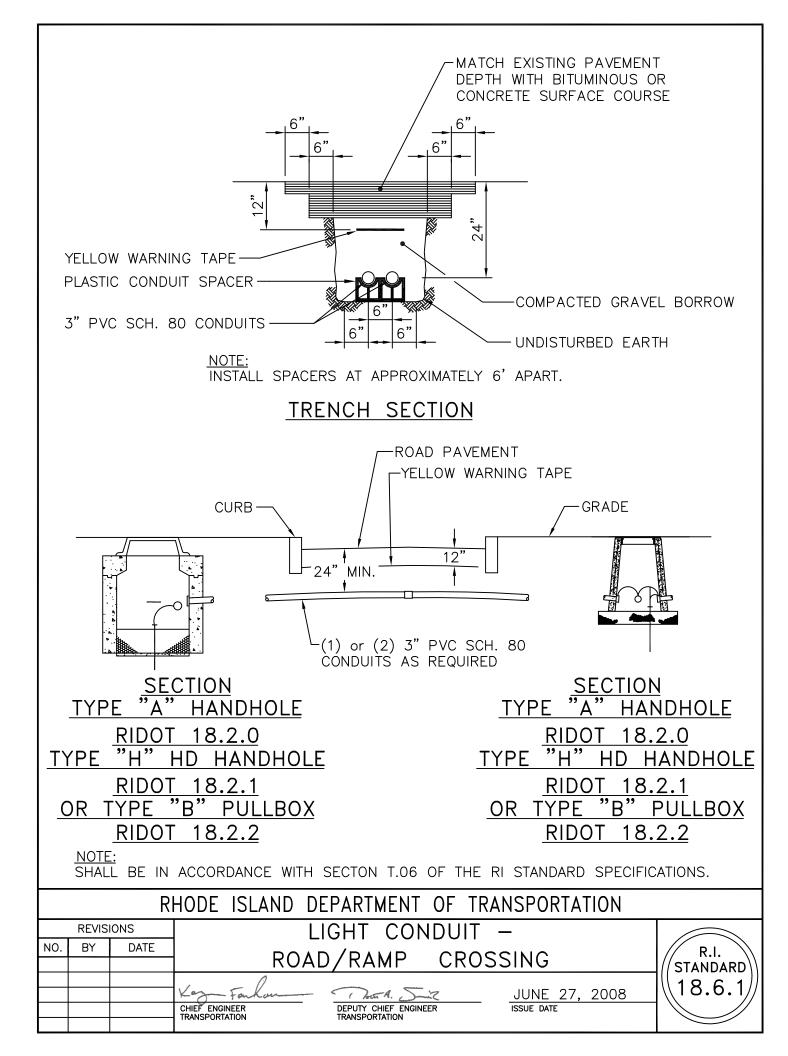


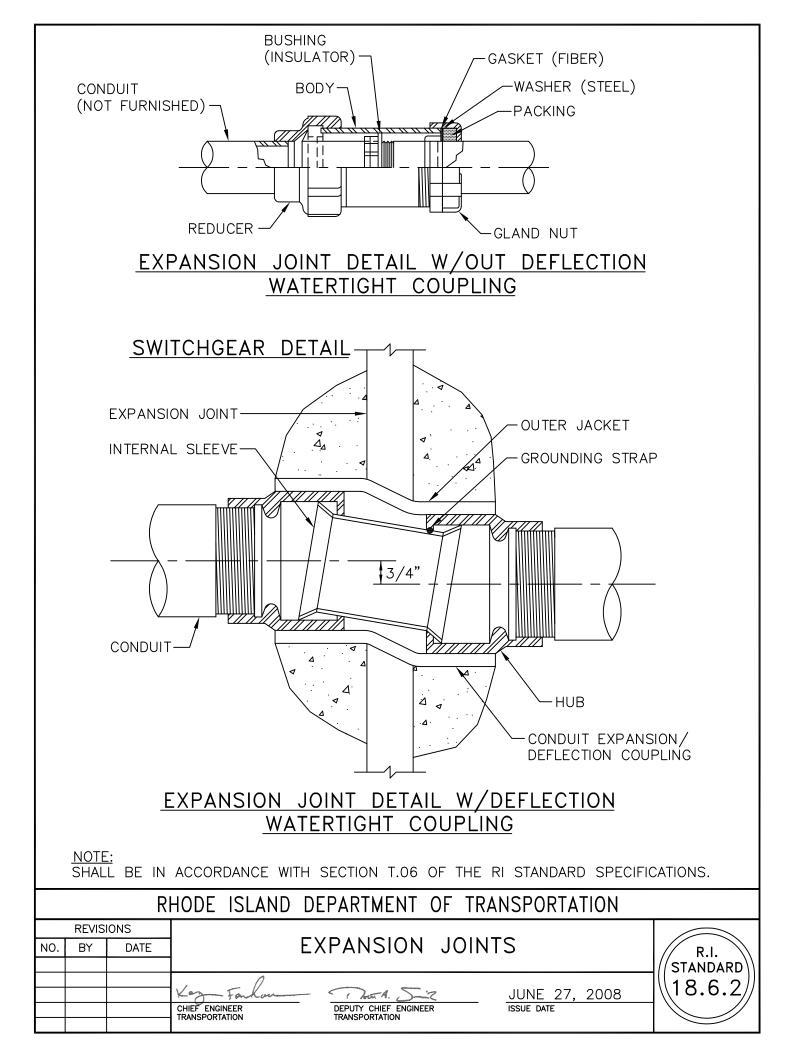


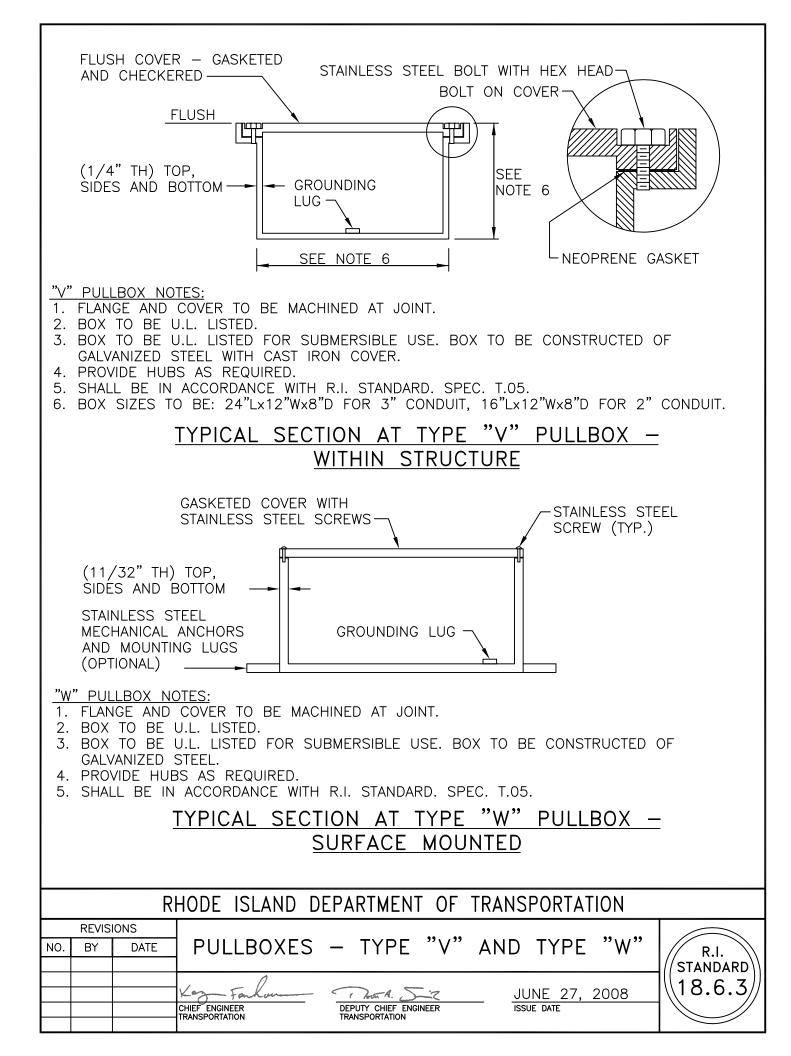


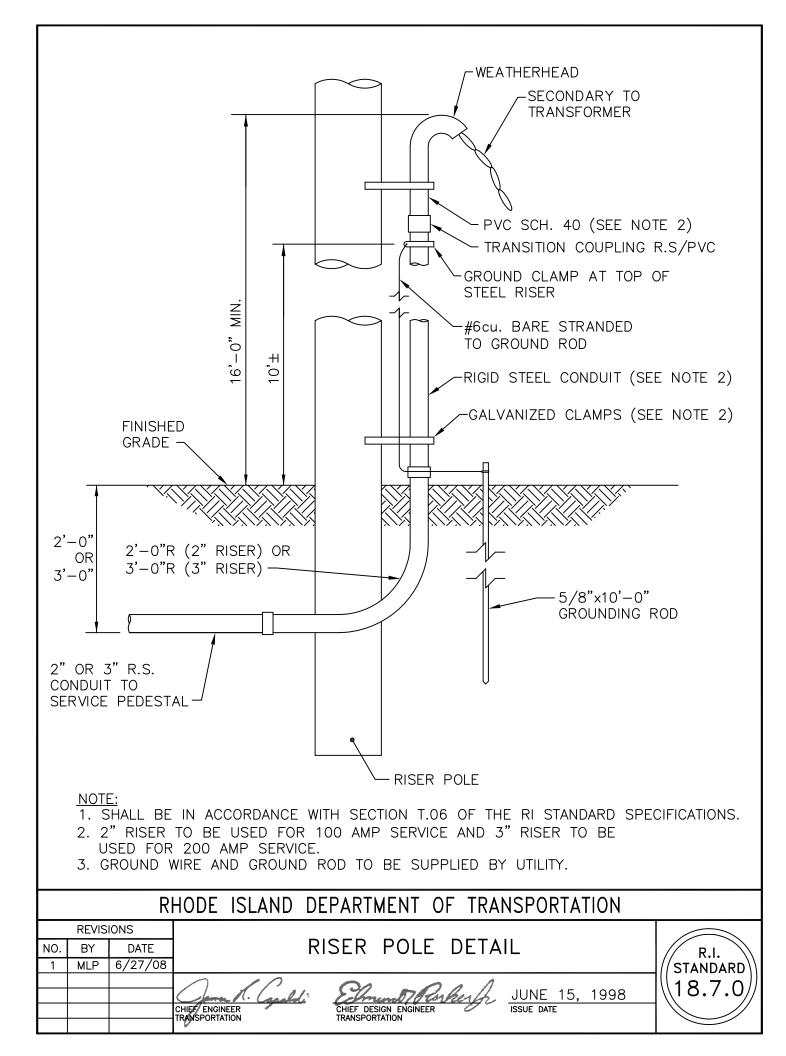


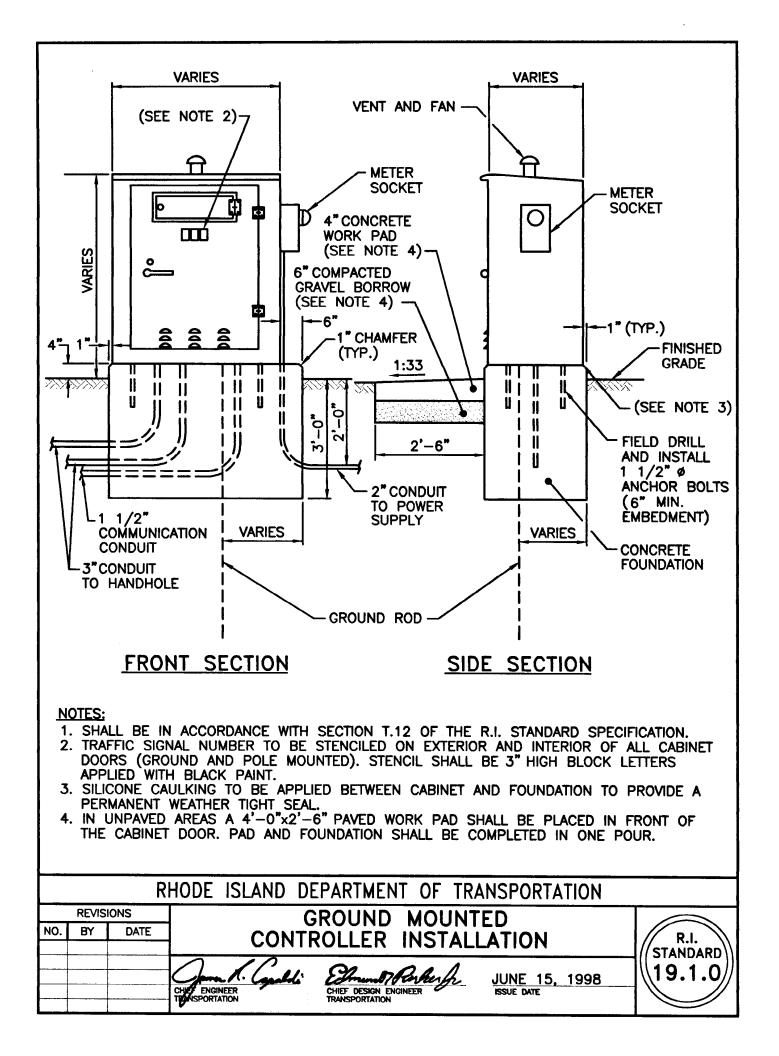


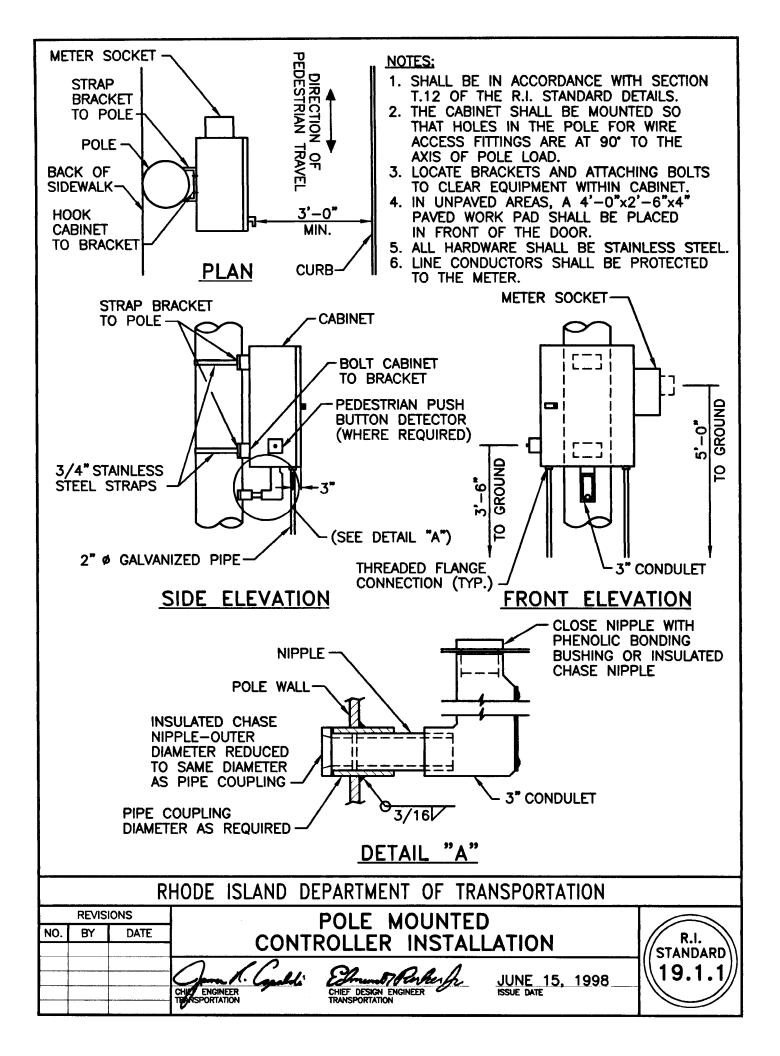


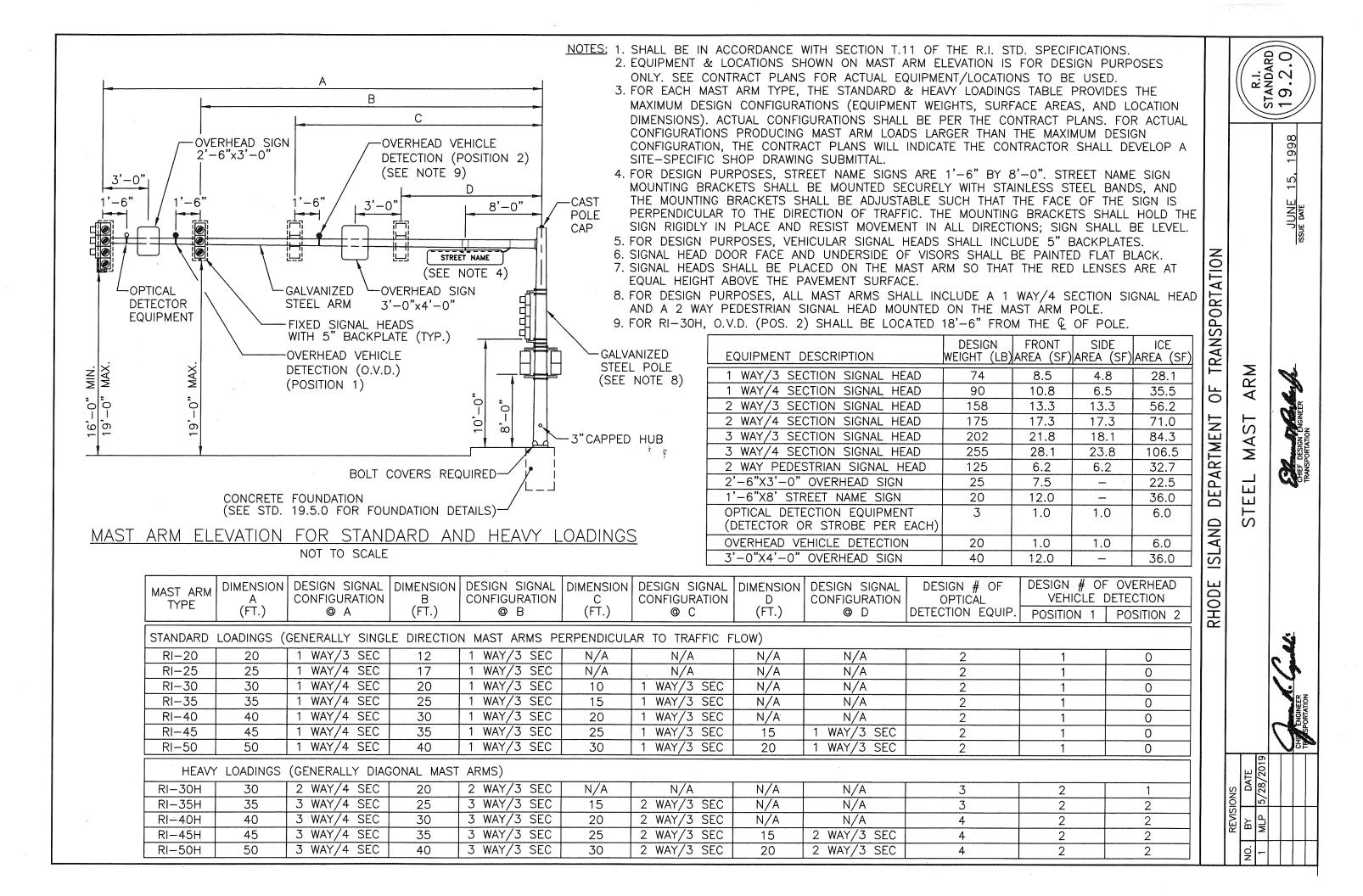


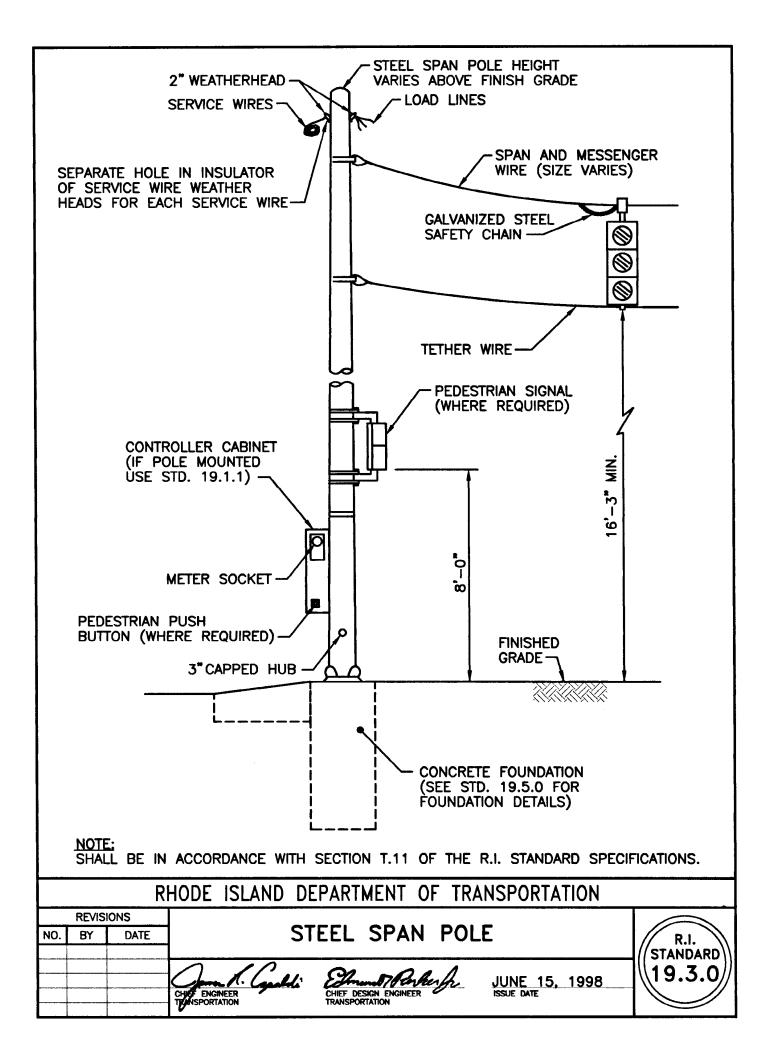


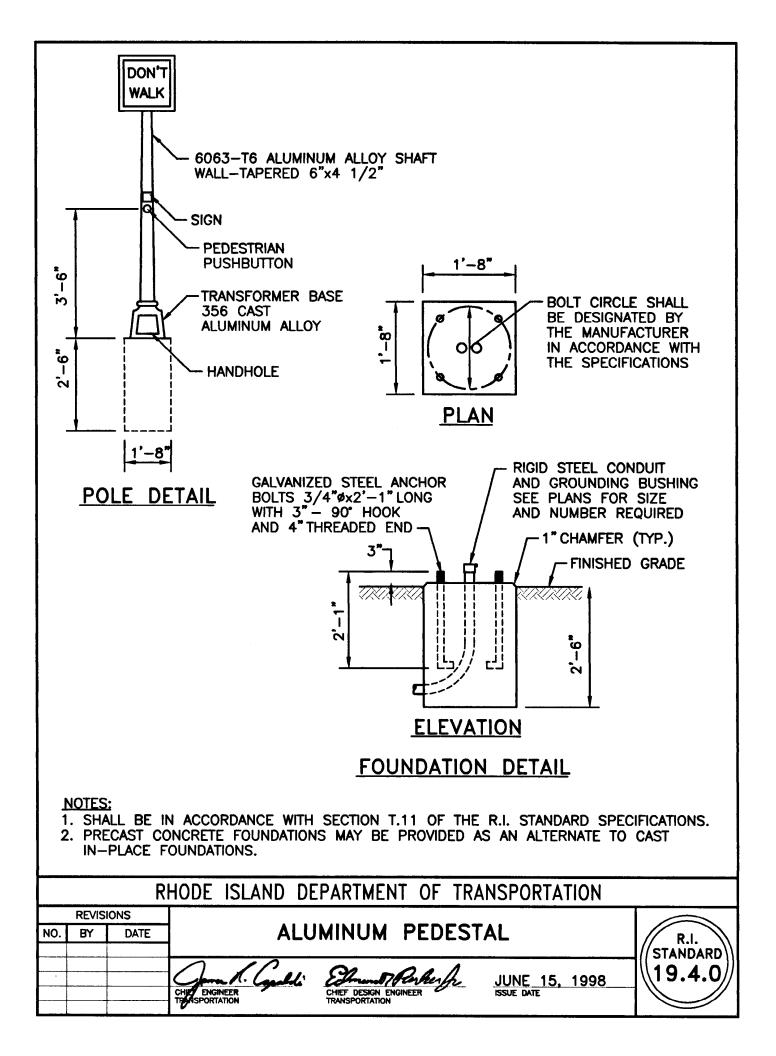


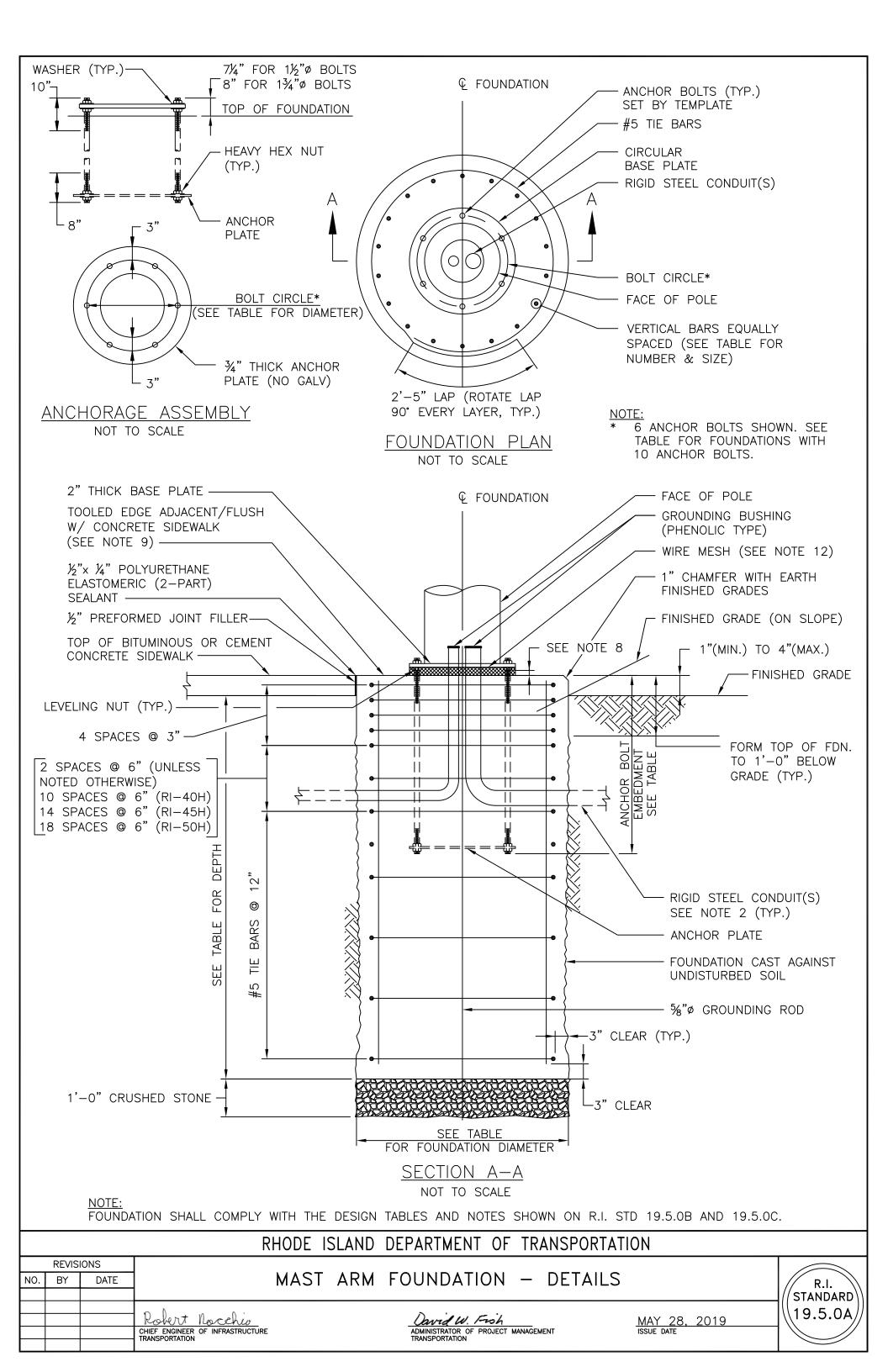












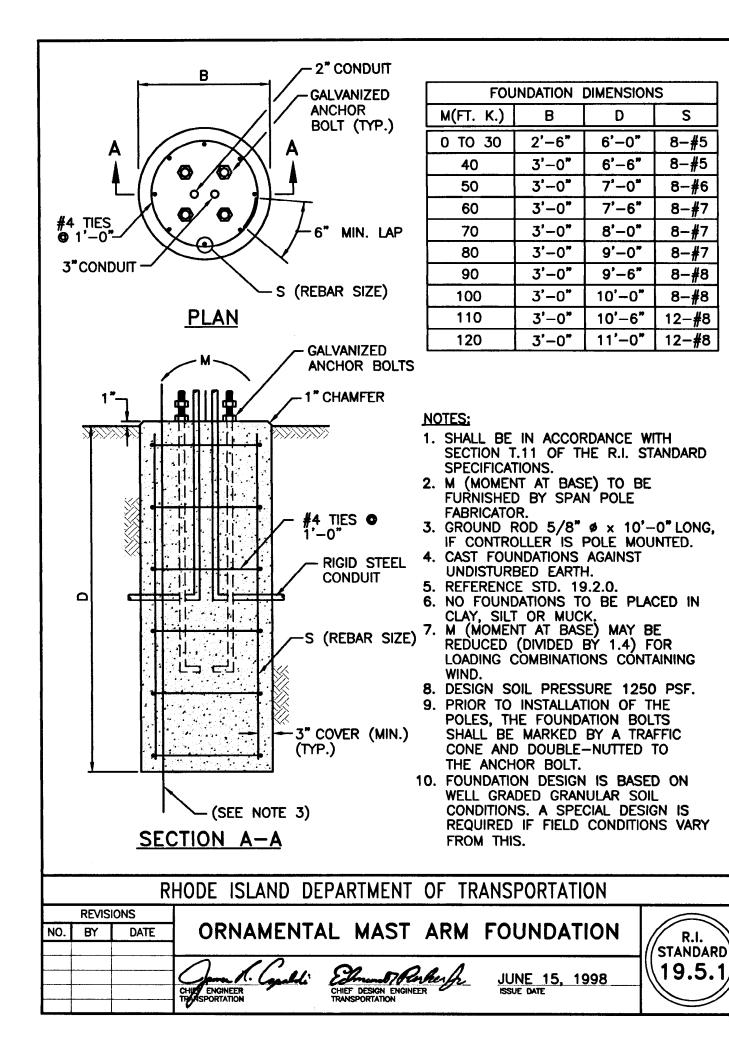
DESIGN TABLES								Г		
	SOIL			SOIL TYF	E					
	CLASS			2)				-		
			AND (SP,	/				4		
STEP 1				GRAVEL (GP, G	W)			1		
		MEDIUM I	DENSE SIL	TY SAND (SM)						
CHOOSE SOIL		COMPACT	ED COMMC	N BORROW						
CLASS USING THE	_	MEDIUM I	DENSE SAN	ND (SP, SW)				1		
SITE SPECIFIC SOIL		MEDIUM DENSE SAND (SI, SW)								
TYPE.	2		ILTY SAND					-		
			ED GRAVEL	<u> </u>				-		
			AND (SP,					-		
	7		•	GRAVEL (GP, G	\ <u>\</u>			-		
	3			, , ,	,			-		
		VERT DEI	NSE SAND	AND GRAVEL	<u>,</u> SW, GP, (GW, GLAG	CIAL TILL)			
				MAXIMUM		. BOL	T NUM			
	MAST	MAST ARM		OVERTURNING	MAXIMUM					ANCHOR BOLT
	ARM	LENGTH	LOADING	MOMENT		DIAME				EMBEDMENT
	TYPE	(FT)		(K-FT)	(K-FT)	(IN)		1 1	IN)	(IN)
STEP 2	RI-20	20	STANDARD	. ,	31.0	17.0			.5	42"
CHOOSE THE MAST										42"
ARM TYPE FROM	RI-25	25	STANDARD		44.0	19.0			.5	
R.I. STD. 19.2.0	RI-30	30	STANDARD		56.0	19.0			.5	42"
BASED ON THE	RI-35	35	STANDARD		70.0	20.0			.5	42"
MAXIMUM OF THE	RI-40	40	STANDARD		84.0	21.0			.5	42"
OVERTURNING	RI-45	45	STANDARD		119.0	24.0		1	.75	42"
MOMENT OR	RI-50	50	STANDARD	163.0	141.0	25.0	D 6	1	.75	42"
AT THE BASE OF	RI-30H	30	HEAVY	99.0	72.0	21.0	D 6	1	.75	42"
THE POLE.	RI-35H	35	HEAVY	169.0	133.0	25.0	D 10) 1	.75	42"
	RI-40H	40	HEAVY	198.0	160.0	25.0	D 10) 1	.75	42"
	RI-45H	45	HEAVY	262.0	210.0	26.0	D 10) 1	.75	42"
	RI-50H	50	HEAVY	288.0	244.0	26.0	D 10) 1	.75	42"
		1	1		1			I	I	
		IATS .	NDARD LOA				HI	EAVY LOA		
	SOIL		MAST A	RM TYPE		SOIL			ARM T	YPE
	CLASS		R	1-20		CLASS		F	RI-30H	
		DIA.	DEPTH ¹	DEPTH ² VERT	ICALS	ULAUS	DIA.	DEPTH ¹	DEPT	H ² VERTICALS
	1	3'-0"	9'-0"	9'-0" 13	-#8	1	3'-6"	11'-0"	11'-	0" 18–#8
	2	3'-0"	8'-0"		-#8	2	3'-6"	9'-0"	9'-0	/
	3	3'-0"	7'-0"		-#8	3	3'-6"	8'-0"	8'-0	
		-				-		 RI-3		
		DIA.					DIA.	DEPTH ¹	DEPT	H ² VERTICALS
	1	3'-0"			-#8	1	3'-6"	<u> </u>	15'-	
	2	3'-0"	9'-0"		-#8	2	<u> </u>	<u>11'-0"</u>	11'-	
	3	3'-0"	<u>9-0</u> 8'-0"		-#8		3'-6''	<u> </u>	10'-	
		5-0	<u>8 –0 </u>		- <u>#0</u>	J	5-0	<u>10 –0</u> RI–4		0 10-#0
				- 1			D · · ·			
STEP 3		DIA.					DIA.	DEPTH ¹	DEPT	
DETERMINE THE	1	3'-0"			-#8	1	3'-6"	15'-0"		//
SIZE, DEPTH AND	2	3'-0"	9'-0"		-#8	2	3'-6"	12'-0"	12'-	
REINFORCING	3	3'-0" 8'-0" 8'-0" 13-#8				3 3'-6" 10'-0" 11'-0" 18-#8				
REQUIRED FOR			RI-35	· · · · · · · · · · · · · · · · · · ·		RI-45H				
THE FOUNDATION.		DIA.	DEPTH ¹	DEPTH ² VERT	ICALS		DIA.	DEPTH ¹	DEPT	H ² VERTICALS
SEE R.I. STD.	1	3'-0"	11'-0"	12'-0" 13	-#8	1	4'-0"	15'-0"	17'-	0" 23-#8
19.5.0A FOR	2	3'-0"	9'-0"		-#8	2	4'-0"	12'-0"	13'-	
FOUNDATION	3	3'-0"	8'-0"		-#8	3	4'-0"	11'-0"	11'-	//
DETAILS.		· · ·				-				
·		DIA.			ICALS		DIA.		DEPT	H ² VERTICALS
	1	3'-6"			-#8	1	 4'−0"	<u> </u>	18'-	
		3'-6"					4'-0''	<u>13'-0"</u>	14'-	
	2	3'-6''	$\frac{9-0}{8'-0''}$		-#8 -#8	2	4 - 0 4' - 0''	$\frac{13 - 0}{11' - 0''}$		
	1 1 5	ו ח—ר ו		9 - 11 18	_ # ~	`		-11 - (1)	/ _	

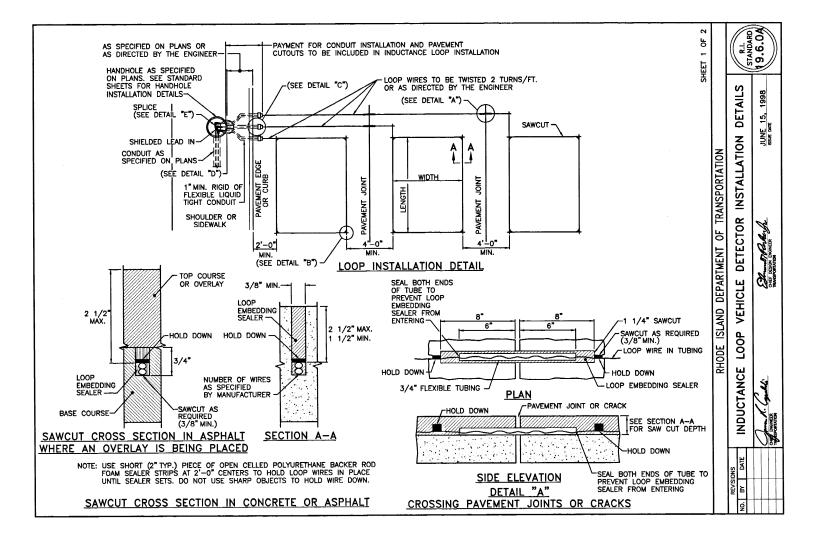
				3	3'-6"	8'-0"	9'-0"	18-#8	3	4'-0"	11'-0"	12'-0"	23-#8
						RI-4	5]				
					DIA.	DEPTH ¹	DEPTH ²	VERTICALS					
				1	3'-6"	13'-0"	14'-0"	18-#8	NOTES:				
				2	3'-6"	11'-0"	11'-0"	18-#8				OMPLY WI ⁻ HOWN ON	
				3	3'-6"	9'-0"	10'-0"	18-#8		5.0A AND			K.I. 31D.
						RI-5	0	• ···				DUNDWATE	R IS
					DIA.	DEPTH ¹	DEPTH ²	VERTICALS		SENT.			
				1	3'-6"	14'-0"	16'-0"	18-#8					S PRESENT.
				2	3'-6"	11'-0"	12'-0"	18-#8				IS EQUAL	ABLE ONLY
				3	3'-6"	10'-0"	10'-0"	18-#8					GROUND
				_			•	• ···					OC NOTE 6.
				R	HODE	SLAND D)EPARTM	IENT OF TI	RANSPOR	TATION			
	REVIS												
NO.	BY	DATE	1	ΜΔς	ST ARM	A FOU	ΝΠΔΤΙΟ)N – DE	SIGN T	ARIFS			
110.		DATE	1				NDAIIC						R.I.
			0.8	A .			~ ·						(19.5.0B)
			CHIEF ENGINEER	occhio				W. Foh			MAY 28, SSUE DATE	2019	
			CHIEF ENGINEER TRANSPORTATION				TRANSPORTA	GN ENGINEER ATION			JOOL DAIL		

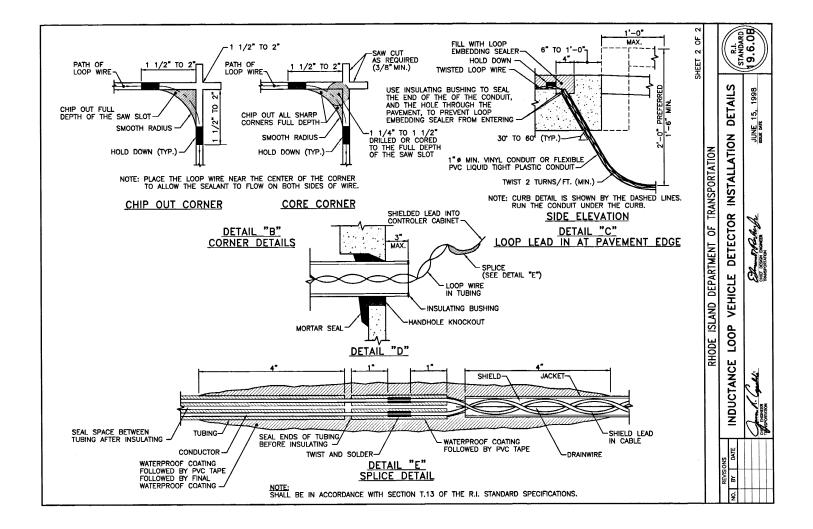
NOTES:

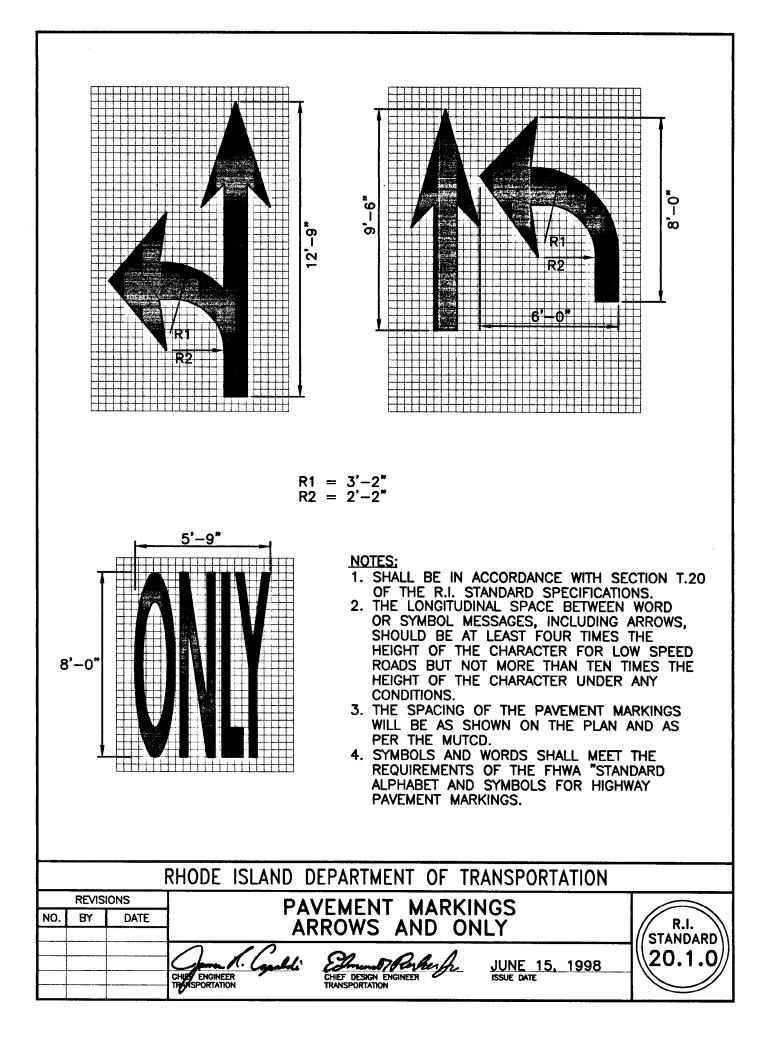
- 1. MAST ARM FOUNDATIONS SHALL BE IN ACCORDANCE WITH SECTION T.11 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. SERVICE CONDUIT(S) FOR POLE SHALL BE CAST INTEGRAL WITH THE FOUNDATION. CONDUITS SHOWN SCHEMATICALLY. REFER TO CONTRACT PLANS FOR ACTUAL CONDUIT CONFIGURATION.
- 3. SOIL CLASS, SOIL TYPE AND GROUNDWATER PRESENCE SHOWN ON THE CONTRACT PLANS SHALL BE USED TO SELECT THE FOUNDATION FROM THE MAST ARM FOUNDATION DESIGN TABLES. DESIGN OF STANDARD FOUNDATIONS ARE BASED ON GRANULAR SOILS AND EXCLUDE POOR SOILS WHERE THE SPT N-VALUE IS LESS THAN 5, INCLUDING LOOSE SILTY SAND (SM), SILTS (ML), COHESIVE SOILS, MUCK, ORGANIC SOILS, MISCELLANEOUS FILLS, AND ROCK.
- 4. COMPACTED COMMON BORROW AND COMPACTED GRAVEL BORROW IN THE SOIL TYPE TABLE APPLY TO GRANULAR HIGHWAY EMBANKMENT FILL, IN WHICH THE TOP 3 FEET IS COMPACTED TO AT LEAST 95 PERCENT OF T180 AND MATERIAL BELOW 3 FEET IS COMPACTED TO AT LEAST 90 PERCENT OF T180.
- 5. FOUNDATION SHALL BE CAST AGAINST UNDISTURBED SOIL. EXCAVATIONS SHALL BE BY THE METHODS SPECIFIED IN SECTION T.11 TO THE NEAT LINES OF THE OUTSIDE DIMENSION OF THE FOUNDATION WITHOUT DISTURBING THE SOIL AROUND AND BELOW THE PROPOSED FOUNDATION. IF THE SOIL IS DISTURBED OR REMOVED BEYOND THE NEAT LINES OF THE OUTSIDE DIMENSION OF THE FOUNDATION, THEN DISTURBED SOILS SHALL BE REMOVED AND THE EXCAVATION SHALL BE FILLED WITH FOUNDATION CONCRETE.
- 6. FOUNDATIONS SHOWN IN THE DESIGN TABLES ARE DESIGNED FOR DRY CONDITIONS (NO GROUND WATER) AND WET CONDITIONS WHEN GROUNDWATER IS 5'-0" OR GREATER FROM THE GROUND SURFACE.
- 7. ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- 8. THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND TOP OF CONCRETE FOUNDATION SHALL NOT EXCEED THE DIAMETER OF THE ANCHOR BOLT UNLESS OTHERWISE NOTED.
- 9. CONTRACTOR SHALL ENSURE THAT FINAL GRADING ALLOWS RUN-OFF FROM TOP OF FOUNDATION. FOR INSTALLATIONS AT SIDEWALKS, REFER TO CONTRACT PLANS TO ENSURE TOP OF FOUNDATION WILL BE FLUSH AND WILL MATCH SLOPE AND GRADE OF PROPOSED SIDEWALK.
- 10. CONCRETE SHALL BE CLASS XX 3/4" f'c = 4000 PSI.
- 11. REINFORCING STEEL SHALL BE IN AASHTO DESIGNATION M31 (ASTM DESIGNATION A615) GRADE 60 AND SHALL BE GALVANIZED PER SECTION 810.
- 12. A WIRE MESH SCREEN SHALL BE INSTALLED AROUND THE PERIMETER OF THE POLE BASE PLATE. SCREEN SHALL BE PRESS-FORMED OF 3 OR 4 MESH, 21 GAGE OR HEAVIER, HOT DIPPED GALVANIZED WIRE SCREEN OR APPROVED EQUIVALENT. THE SCREEN SHALL BE SCREWED INTO DRILLED AND TAPPED HOLES AROUND THE SIDE OF THE POLE BASE PLATE. THE SCREEN SHALL BE FLUSH WITH THE TOP OF THE FOUNDATION. THE POLE BASE SCREW FASTENERS SHALL BE GALVANIZED PER AASHTO M232.

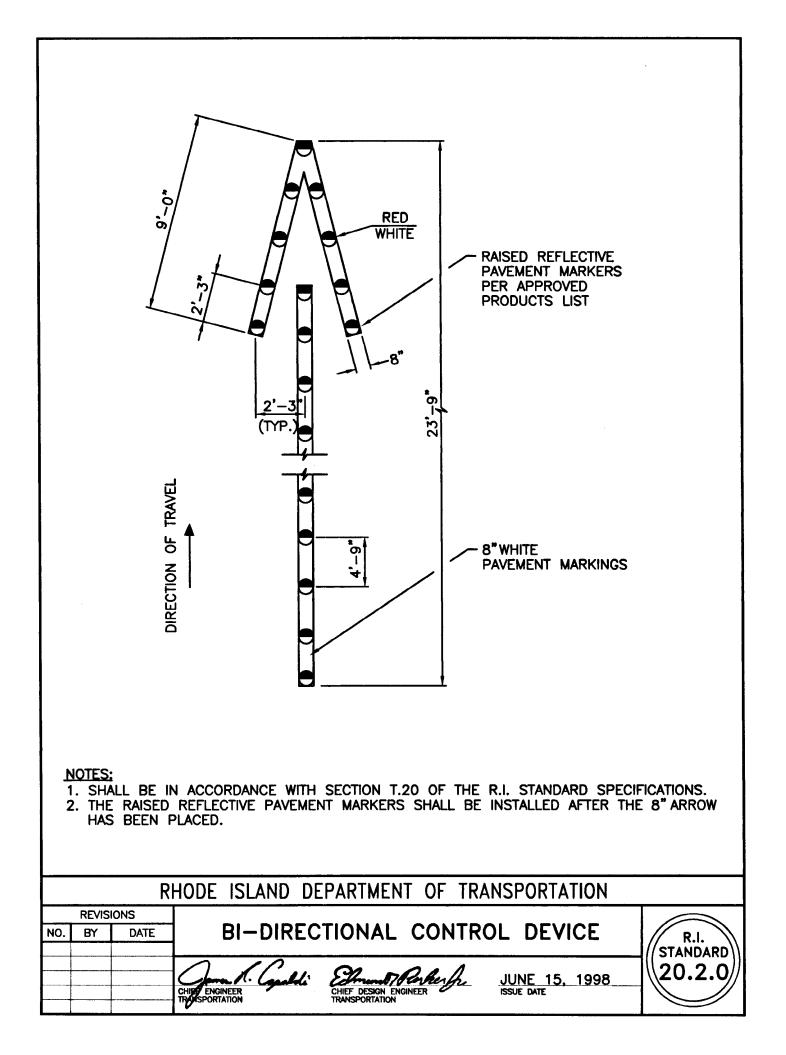
		RI	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS		
NO.	BY	DATE	MAST ARM FOUNDATION - NOTES	R.I.
				// STANDARD \\
			Robert Nocchio David W. Fish MAY 28, 2019	\\19.5.0C//
			CHIEF ENGINEER OF INFRASTRUCTURE TRANSPORTATION TRANSPORTATION	











GENERAL NOTES:

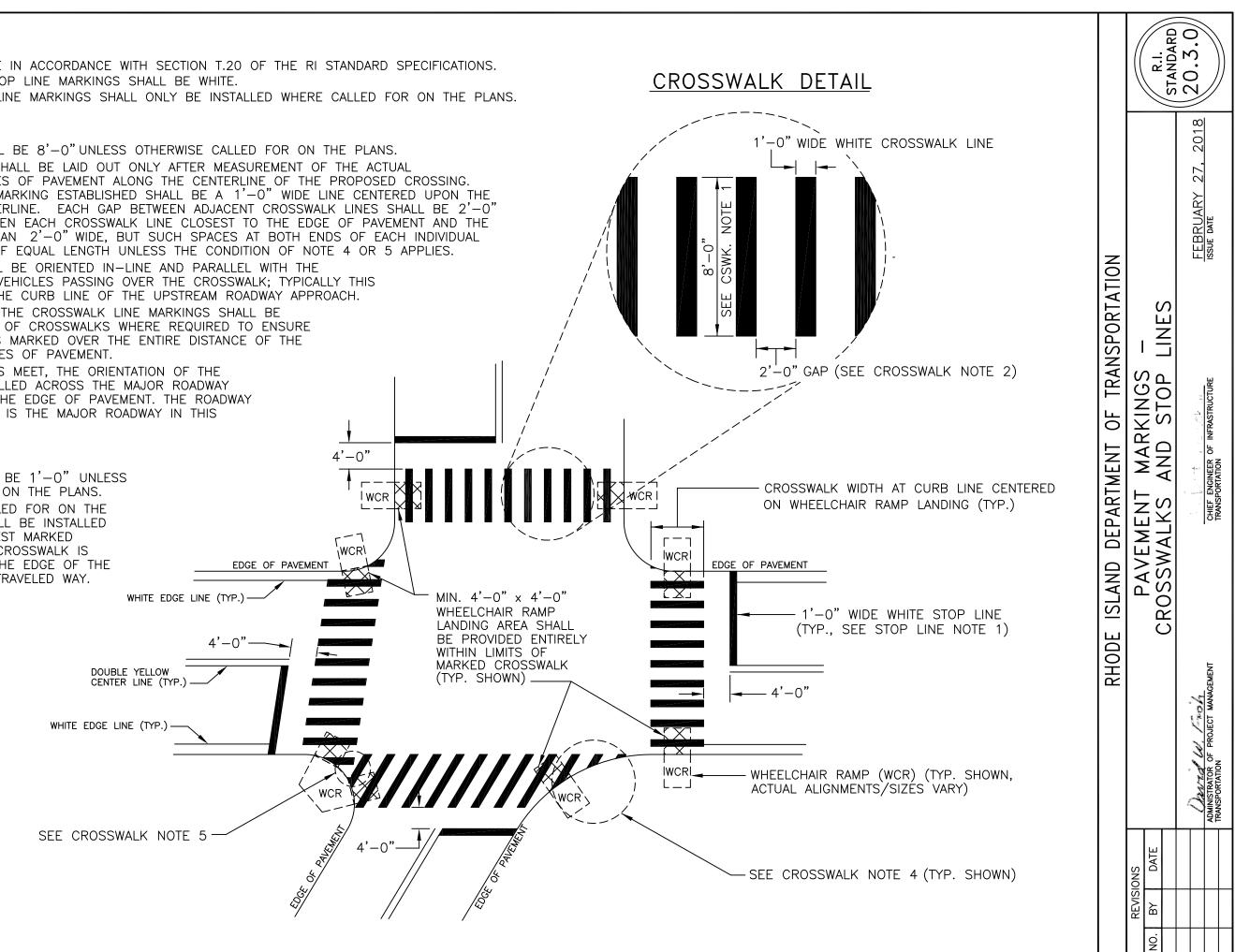
- 1. ALL MARKINGS SHALL BE IN ACCORDANCE WITH SECTION T.20 OF THE RI STANDARD SPECIFICATIONS.
- 2. ALL CROSSWALK AND STOP LINE MARKINGS SHALL BE WHITE.
- 3. CROSSWALK AND STOP LINE MARKINGS SHALL ONLY BE INSTALLED WHERE CALLED FOR ON THE PLANS.

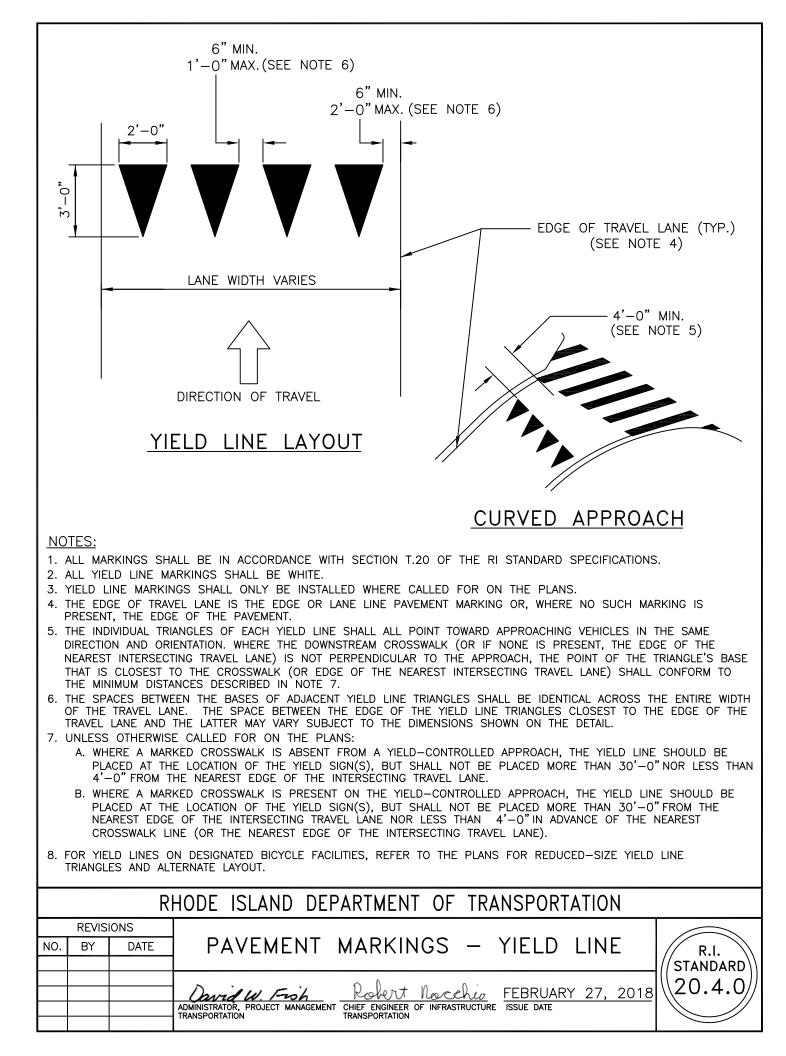
CROSSWALK NOTES:

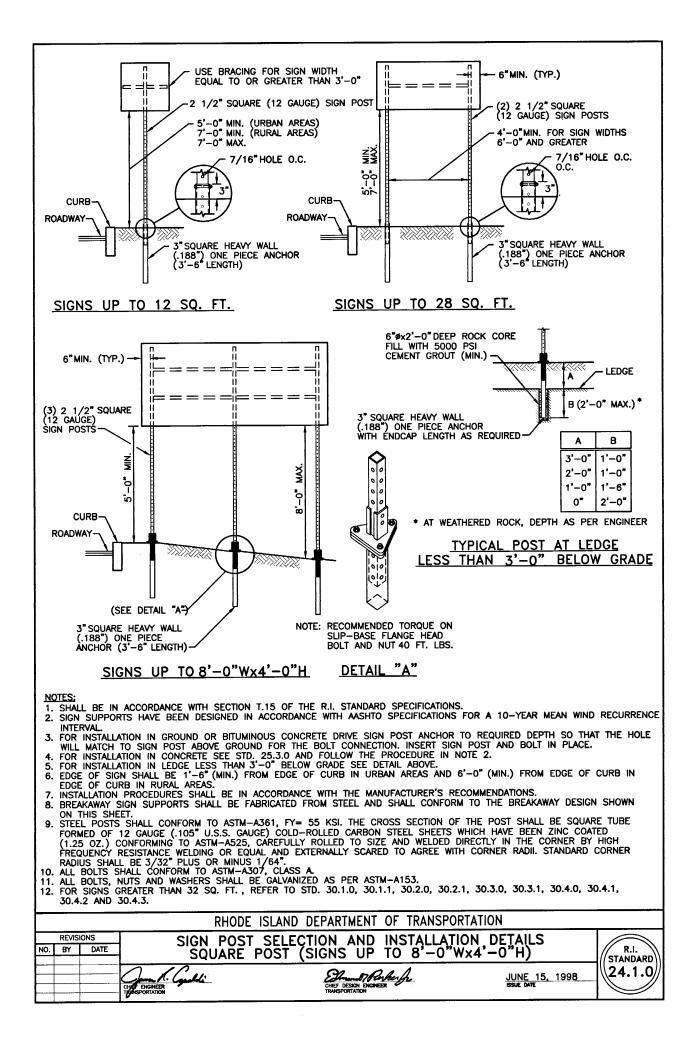
- 1. CROSSWALK WIDTH SHALL BE 8'-O" UNLESS OTHERWISE CALLED FOR ON THE PLANS.
- 2. CROSSWALK MARKINGS SHALL BE LAID OUT ONLY AFTER MEASUREMENT OF THE ACTUAL DISTANCE BETWEEN EDGES OF PAVEMENT ALONG THE CENTERLINE OF THE PROPOSED CROSSING. THE FIRST CROSSWALK MARKING ESTABLISHED SHALL BE A 1'-O" WIDE LINE CENTERED UPON THE MIDPOINT OF THIS CENTERLINE. EACH GAP BETWEEN ADJACENT CROSSWALK LINES SHALL BE 2'-0" WIDE. THE SPACE BETWEEN EACH CROSSWALK LINE CLOSEST TO THE EDGE OF PAVEMENT AND THE LATTER MAY BE LESS THAN 2'-O" WIDE, BUT SUCH SPACES AT BOTH ENDS OF EACH INDIVIDUAL CROSSWALK SHALL BE OF EQUAL LENGTH UNLESS THE CONDITION OF NOTE 4 OR 5 APPLIES.
- 3. CROSSWALK LINES SHALL BE ORIENTED IN-LINE AND PARALLEL WITH THE PREDOMINANT PATH OF VEHICLES PASSING OVER THE CROSSWALK; TYPICALLY THIS WILL BE PARALLEL TO THE CURB LINE OF THE UPSTREAM ROADWAY APPROACH.
- 4. SHORTER SEGMENTS OF THE CROSSWALK LINE MARKINGS SHALL BE INSTALLED AT THE ENDS OF CROSSWALKS WHERE REQUIRED TO ENSURE THAT THE CROSSWALK IS MARKED OVER THE ENTIRE DISTANCE OF THE CROSSING BETWEEN EDGES OF PAVEMENT.
- 5. WHERE TWO CROSSWALKS MEET, THE ORIENTATION OF THE CROSSWALK LINES INSTALLED ACROSS THE MAJOR ROADWAY SHALL BE CARRIED TO THE EDGE OF PAVEMENT. THE ROADWAY RUNNING LEFT TO RIGHT IS THE MAJOR ROADWAY IN THIS DETAIL.

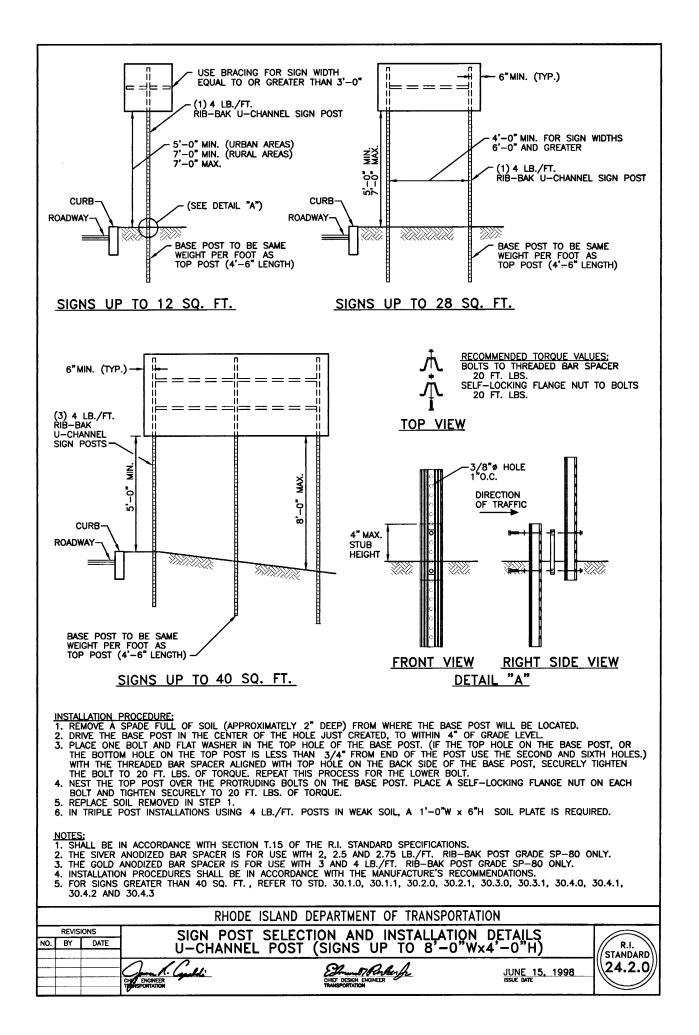
STOP LINE NOTES:

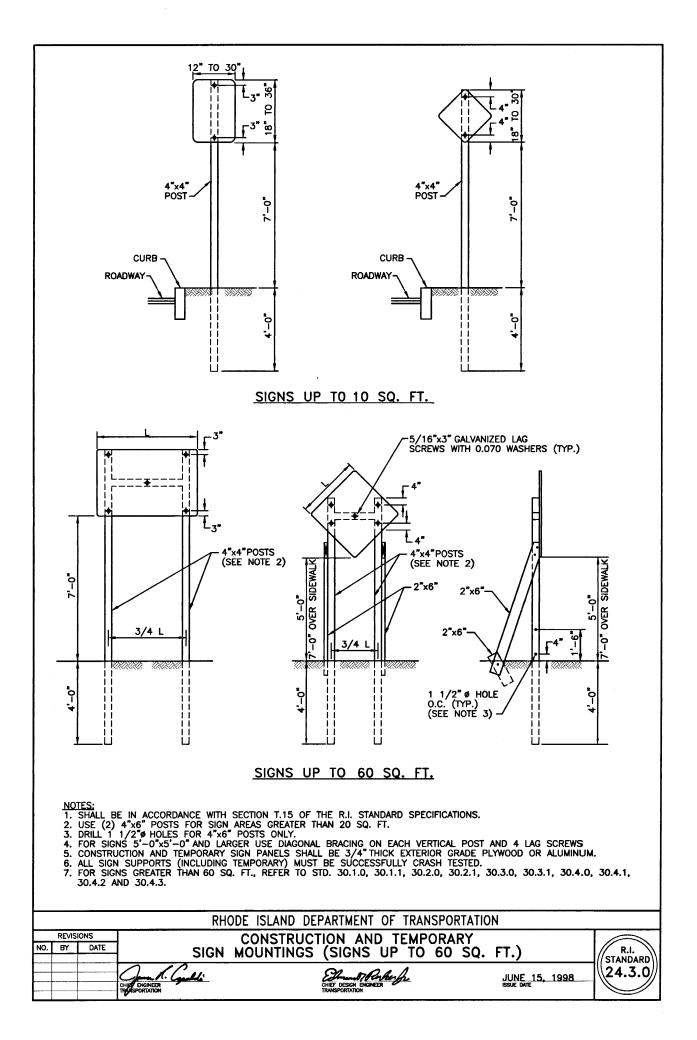
- 1. STOP LINE WIDTH SHALL BE 1'-O" UNLESS OTHERWISE CALLED FOR ON THE PLANS.
- 2. UNLESS OTHERWISE CALLED FOR ON THE PLANS, STOP LINES SHALL BE INSTALLED PARALLEL TO THE NEAREST MARKED CROSSWALK OR, IF NO CROSSWALK IS MARKED, PARALLEL TO THE EDGE OF THE NEAREST INTERSECTING TRAVELED WAY.

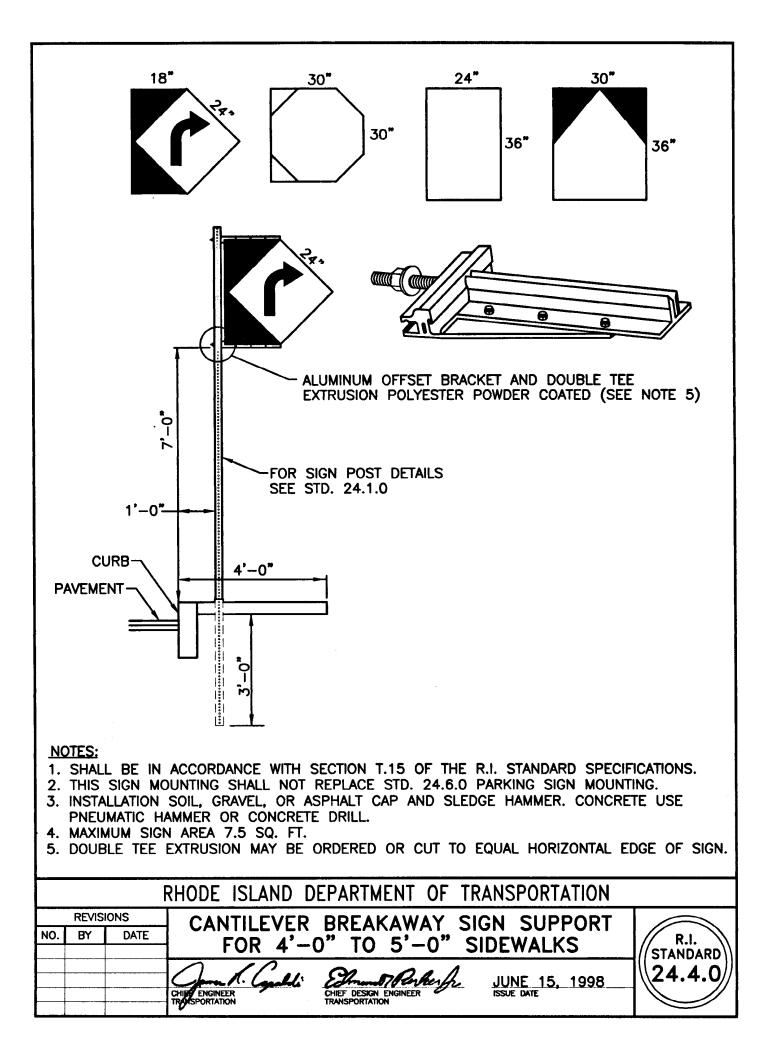


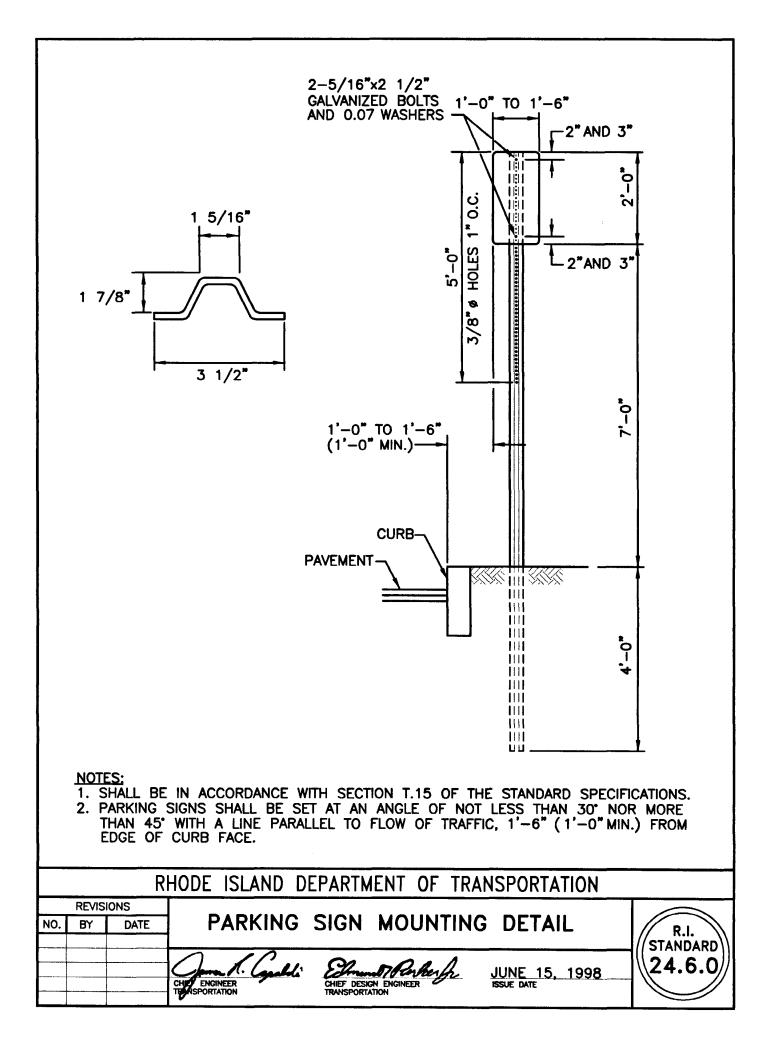


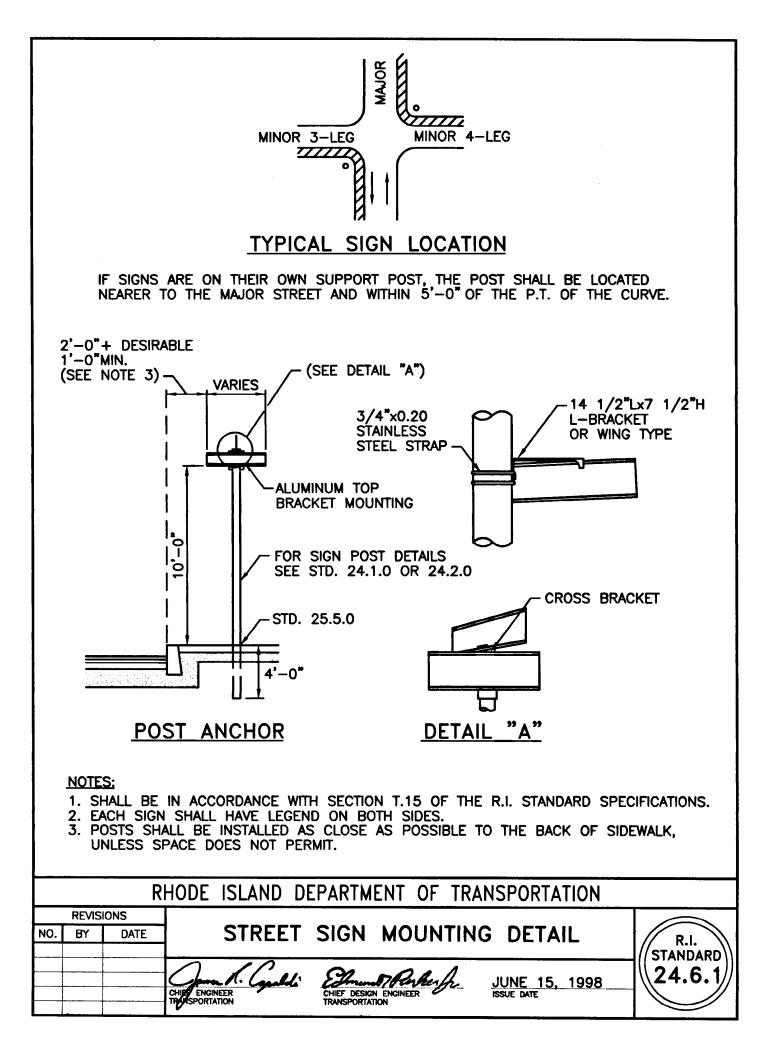


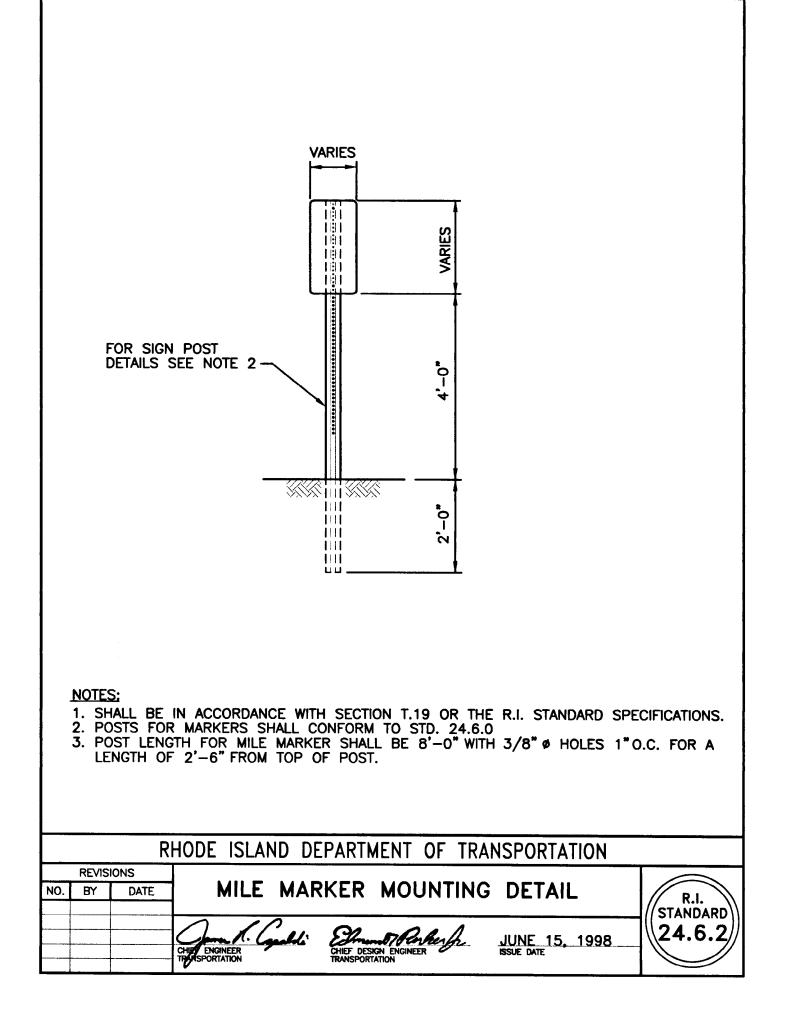


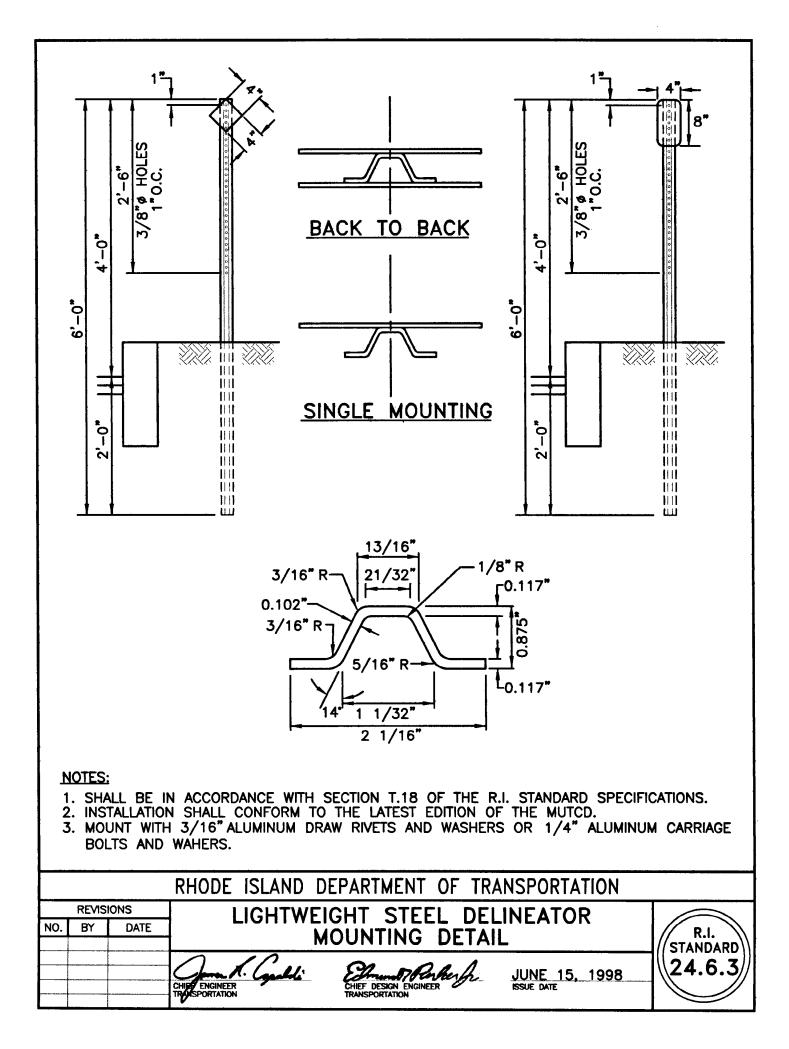


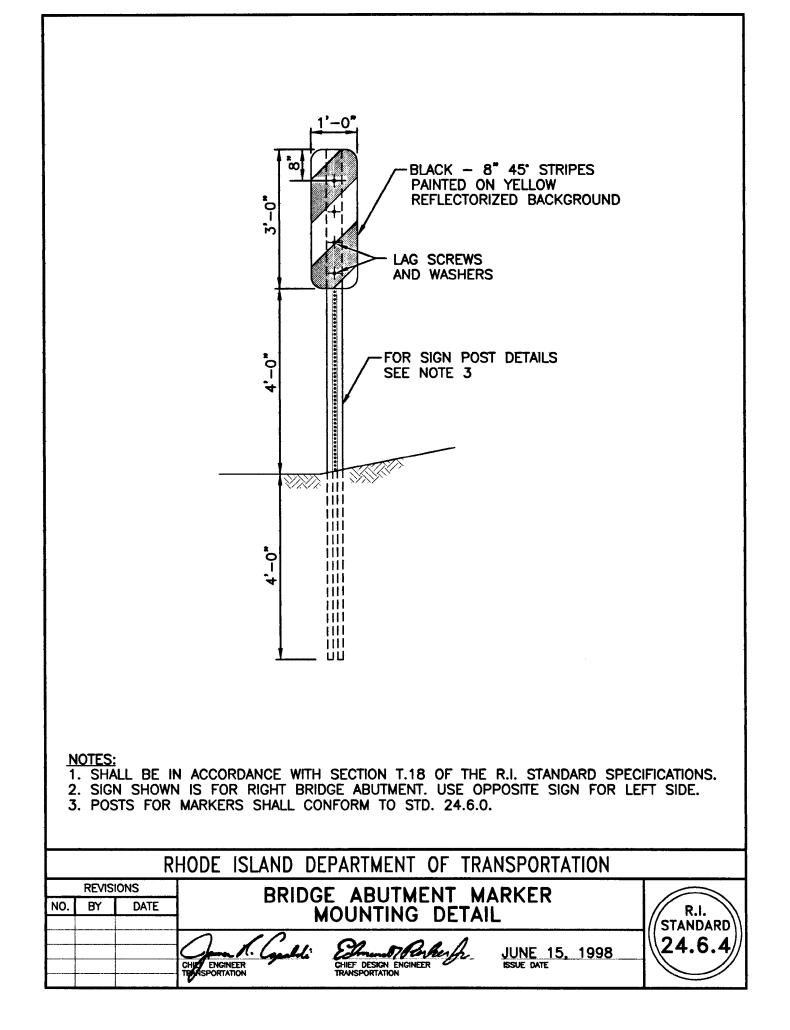


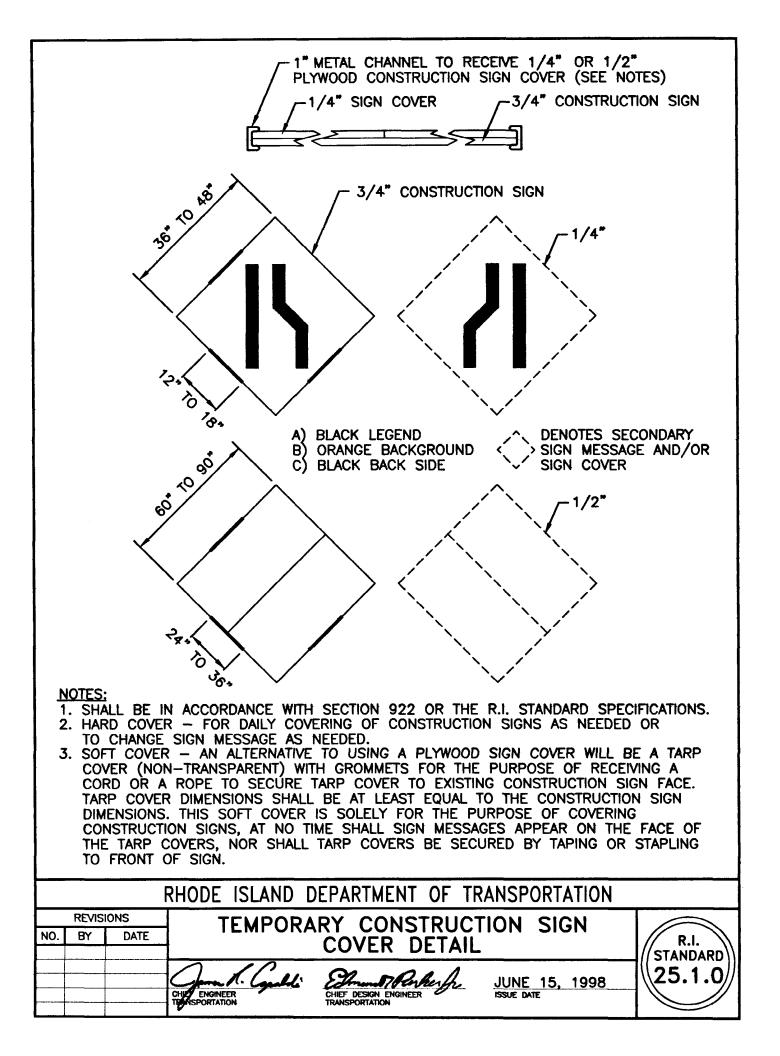


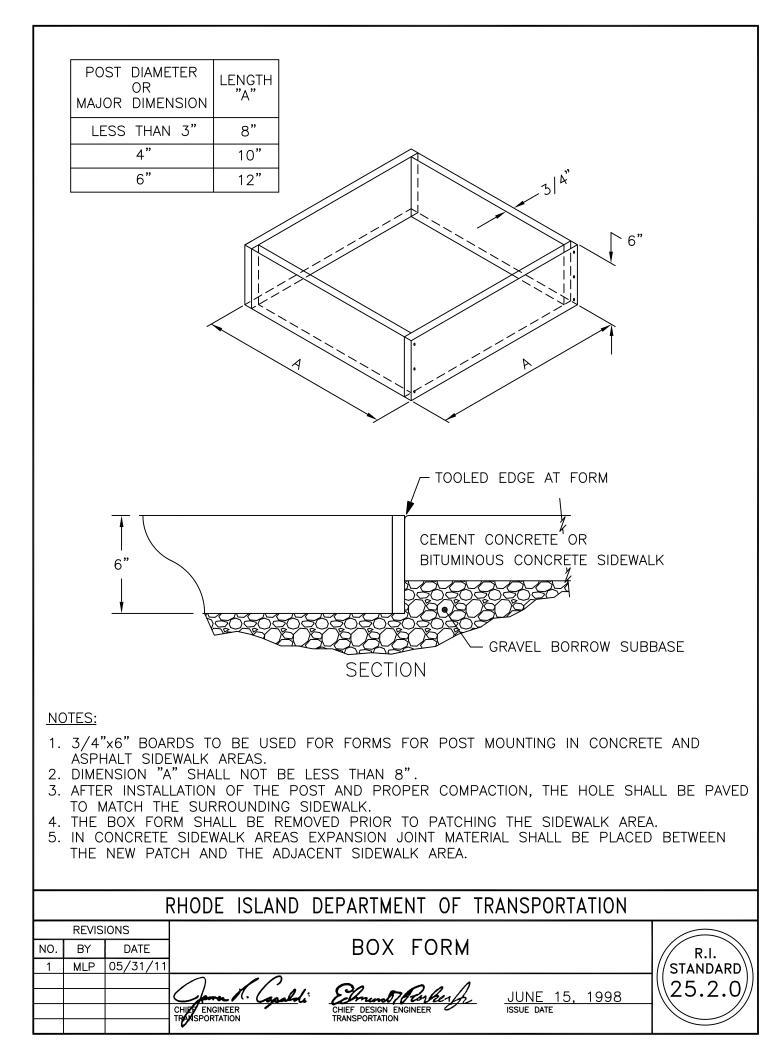


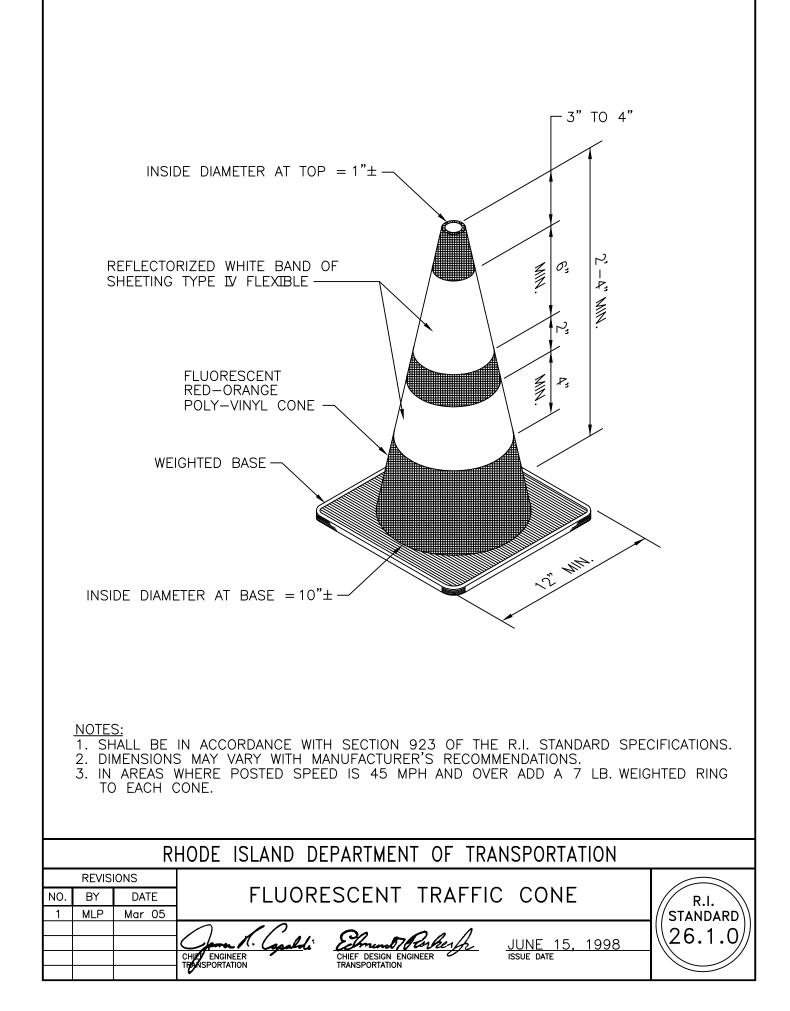


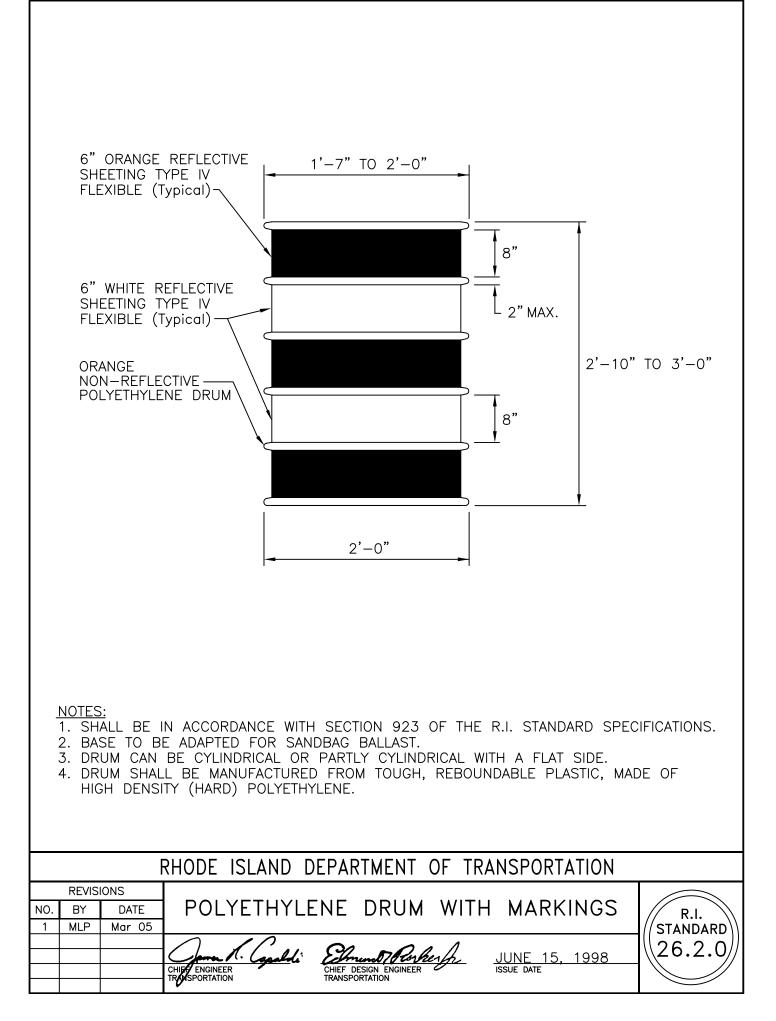


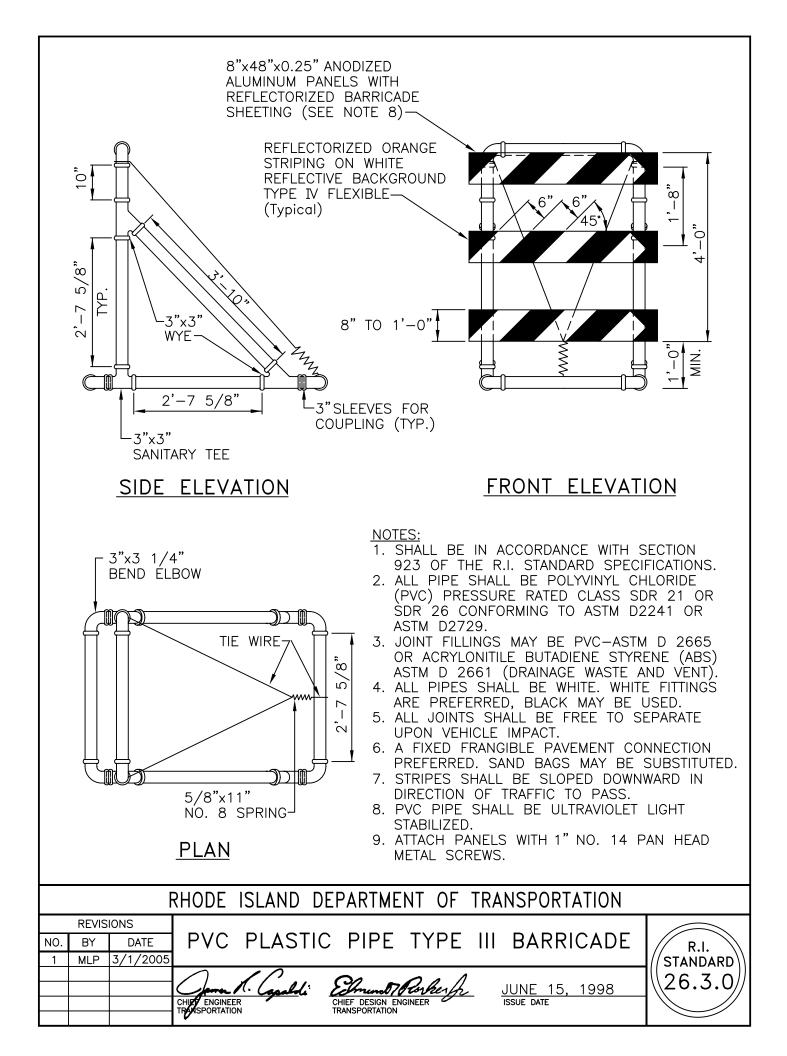


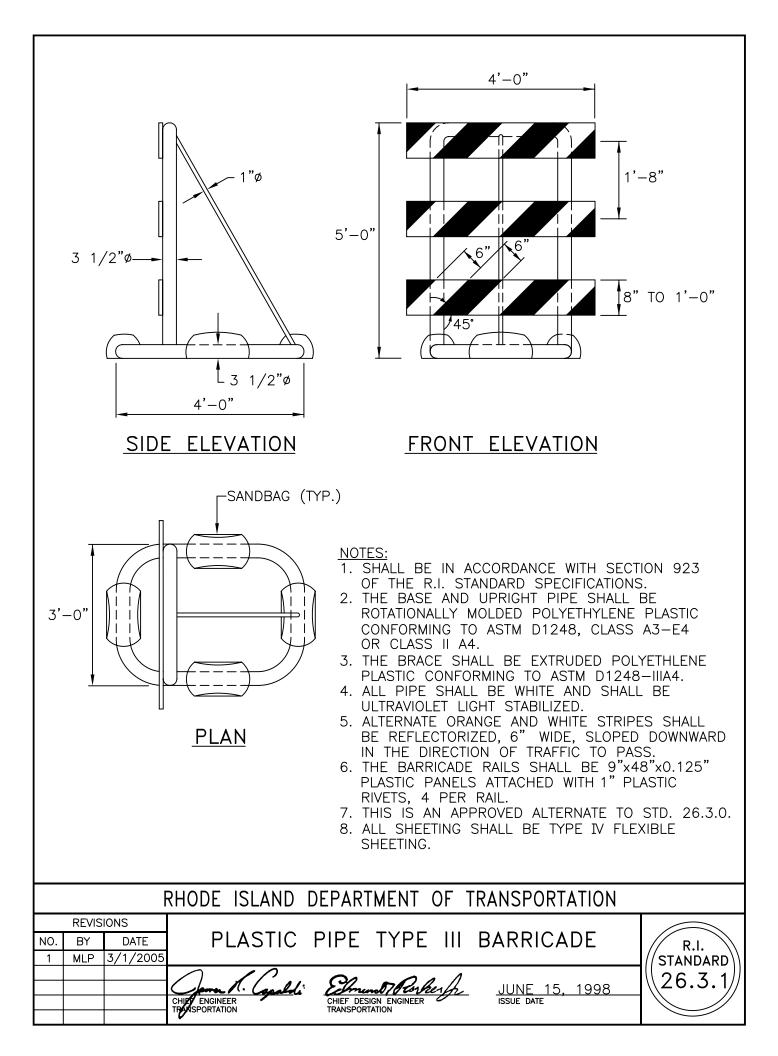




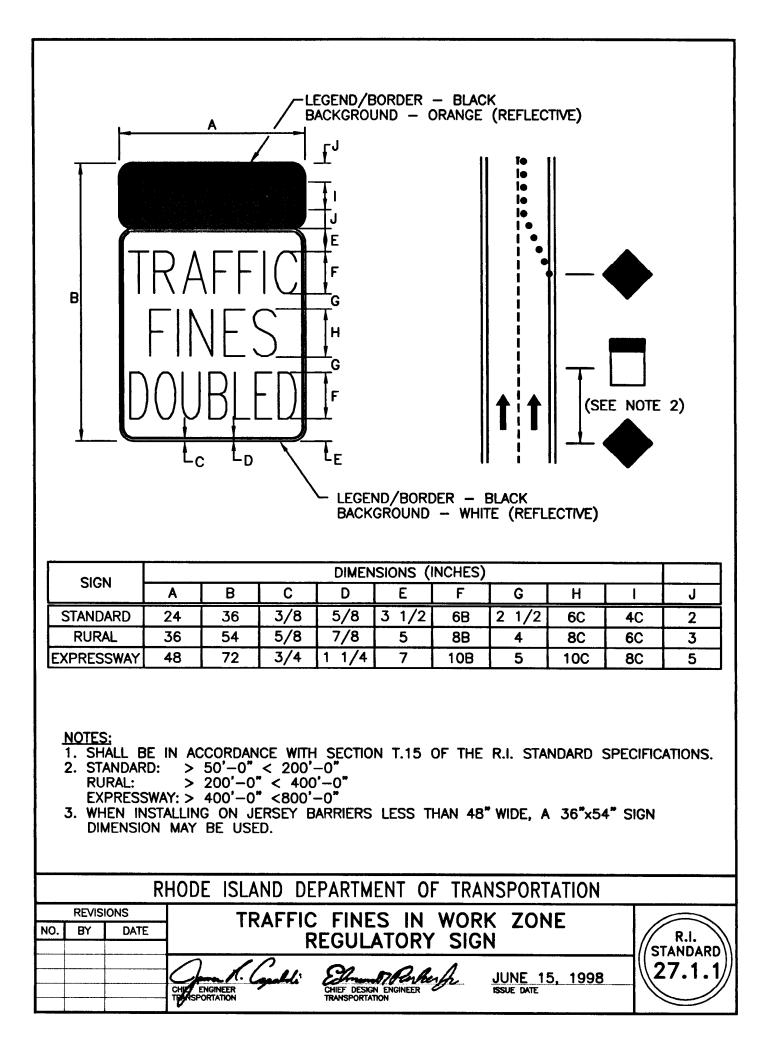


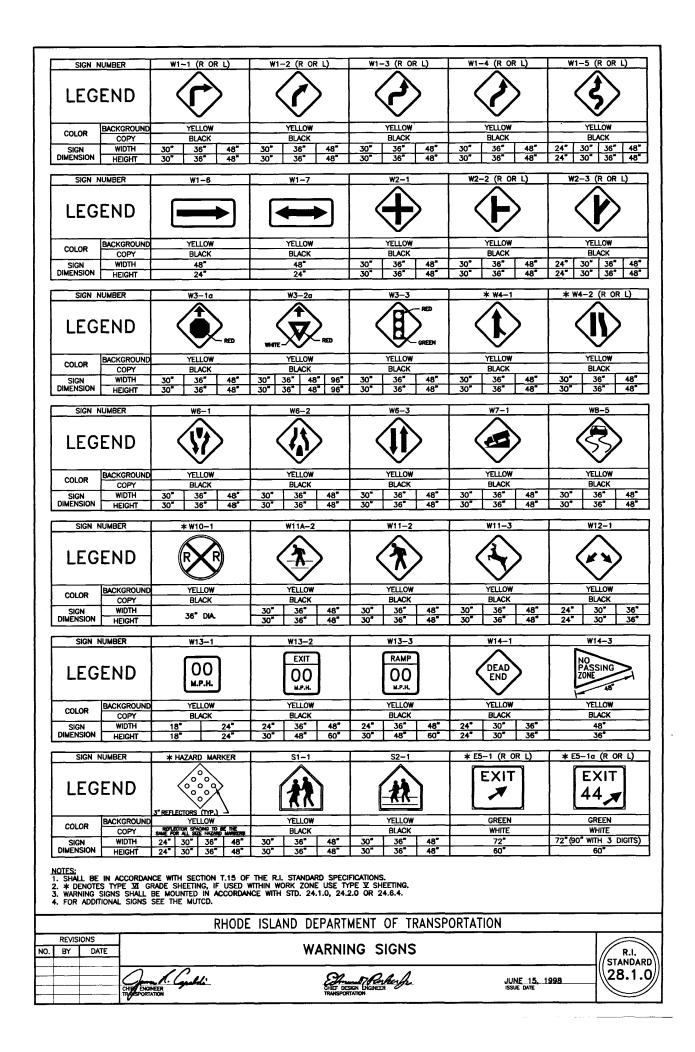




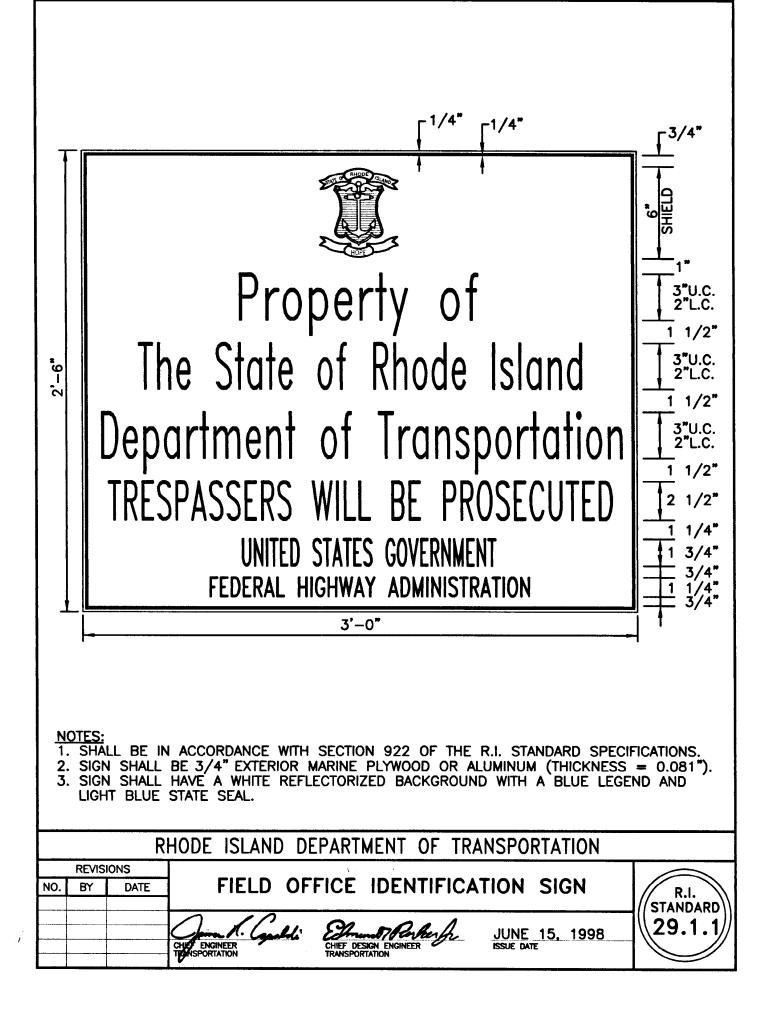


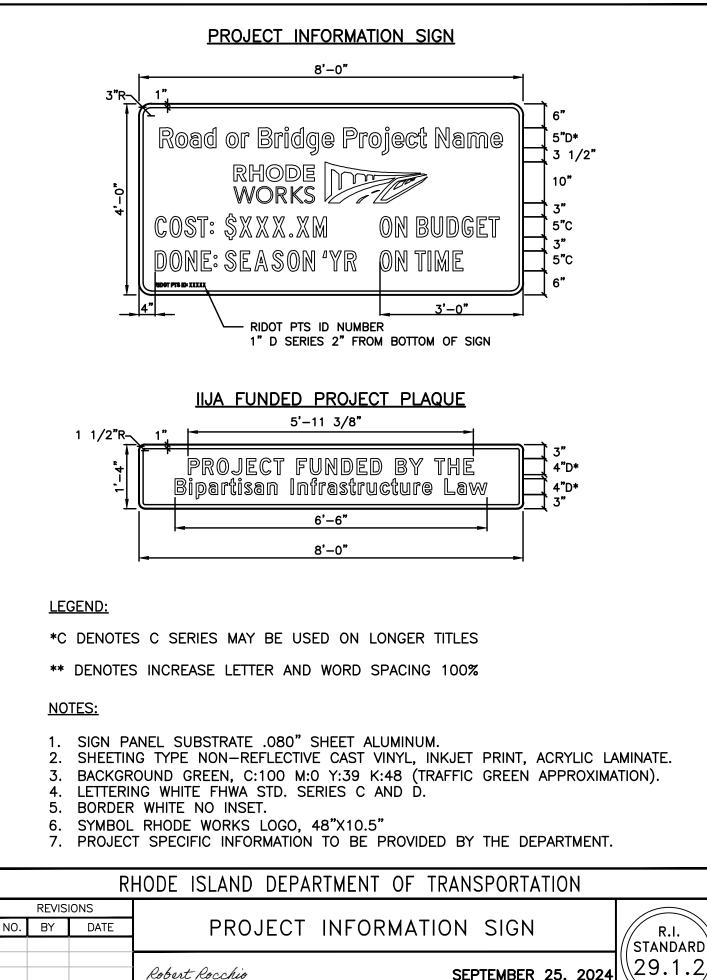
SIGN N	IUMBER	* R1-1	* R1-2	R2-1	R2-4a	R2-5c
LEG	END	STOP	RED RED RED			SPEED ZONE AHEAD
	BACKGROUND	250	WHITE	WHITE	UO WHITE	WHITE
COLOR	COPY	WHITE	RED	BLACK	BLACK	BLACK
SIGN DIMENSION	WIDTH HEIGHT	24" 30" 36" 48" 24" 30" 36" 48"	36" 48" 60" 36" 48" 60"	24" 36" 48" 30" 48" 60"	24* 36* 48* 48* 72* 96*	24" 36" 48" 30" 48" 60"
SIGN N	IUMBER	R3-1	R3-2	R3-3	R3-4	R3-5
LEG	END	A)	Ð	NO TURNS	R	ONLY
COLOR	BACKGROUND		WHITE	WHITE	WHITE	YELLOW
SIGN	COPY WIDTH	RED (BLACK ARROW)	RED (BLACK ARROW)	BLACK 24*	RED (BLACK ARROW)	BLACK 30
DIMENSION	HEIGHT	24"	24*	24*	24*	36"
SIGN N	IUMBER	R3-6	R3-7 (R OR L)	R4-1	R4-2	R4-3
LEG	END	4	LEFT LANE MUST turn left	DO NOT PASS	PASS WITH CARE	SLOWER TRAFFIC KEEP RIGHT
COLOR	BACKGROUND	WHITE BLACK	WHITE BLACK	WHITE BLACK	WHITE BLACK	WHITE BLACK
SIGN DIMENSION	WIDTH	30* 36*	<u> </u>	18" 24" 24" 30"	18" 24" 24" 30"	24" 36" 48" 30" 48" 60"
SIGN N	IUMBER	R4-5	R4-6	* R4-7	R4-70	R4-7b
LEG	END	TRUCKS USE RIGHT LANE	TRUCKS LANE 500 FEET	7		RIGHT
COLOR	BACKGROUND	WHITE BLACK	WHITE BLACK	WHITE BLACK	WHITE BLACK	WHITE BLACK
SIGN DIMENSION	WIDTH HEIGHT	24" 36" 48" 30" 48" 60"	24" 36" 48" 30" 48" 60"	24" 30"	18" 24" 36" 48" 24" 30" 48" 60"	18" 24" 36" 48" 24" 30" 48" 60"
SIGN N	IUMBER	* R5-1	* R5-1a	R5-6	R5-10b	R6-1 (R OR L)
LEG	END		WRONG WAY		PEDESTRIANS AND BICYCLES PROHIBITED	ONE WAY
COLOR	BACKGROUND		RED	WHITE	WHITE	BLACK-ARROW WHITE
SIGN	COPY WIDTH	WHITE 30" 36" 48"	WHITE 36"	RED (BLACK BICYCLE)	BLACK 	BLACK 36*
DIMENSION	HEIGHT	30" 36" 48"	24*	24	18"	12"
SIGN N	NUMBER	R7-1	R7-2	R7-3	R7-4	R7-5
LEG	END	NO PARKING ANY TIME	NO PARKING e-soom to 3-softw			ONE HOUR PARKING 9AM-7PM
COLOR	BACKGROUND	WHITE	WHITE	WHITE	WHITE	WHITE
SIGN	COPY WIDTH	RED 12"	RED 12"	RED 12*		GREEN 12"
DIMENSION	HEIGHT	18"	18"	18*		18
SIGN N	UMBER	R8-7	R11-1	R11-2	NOTES:	
LEG	END	EMERGENCY STOPPING ONLY	KEEP OFF MEDIAN	ROAD CLOSED	T.15 OF THE R.I. 2. * DENOTES TYPE 3. REGULARTORY SIGN	RDANCE WITH SECTION STANDARD SPECIFICATIONS. I GRADE SHEETING. IS SHALL BE MOUNTED IN STD. 24.1.0, 24.2.0 OR
COLOR	BACKGROUND	BLACK	WHITE BLACK	WHITE BLACK	4. THICKNESS OF ALL LESS THAN 10 SQ	. FT 0.081 IN.
SIGN DIMENSION	COPY WIDTH HEIGHT	BLACK 30" 48" 24" 36"	BLACK 24" 36" 48" 30" 48" 60"	48* 	10 SQ. FT. TO 36 GREATER THAN 36 5. FOR ADDITIONAL SI	SQ. FT 0.102 IN. SQ. FT 0.125 IN. GNS SEE THE MUTCD.
REVISIONS	<u> </u>	RHODE	ISLAND DEPART	MENT OF TRANSP	ORTATION	
BY DA	π		_	ORY SIGNS		R.I. STANDAR
	-1	M. Carlli	94	SIGN ENGINEER	JUNE 15, 1	oga \\27.1.0





	NO.	Т					
			SIGN NUMBER	<u>★ ₩21-4</u>	W20-2	W20-3	W20-4
	BY DATE		LEGEND	(SEE 2)	(SEE 2)	(SEE NOTE 2)	(SEE NOTE 2)
795		RHODE			ORANGE BLACK	ORANGE BLACK	ORANGE BLACK
SHHD MINU		18	WIDTH	BLACK 30" 36" 48" 96"	BLACK 30" 36" 48" 96"	30" 36" 48" 96"	30" 36" 48" 96"
ENGINEER		M	DIMENSION HEIGHT	<u>30" 36" 48" 96</u> 30" 36" 48" 96"	30" 36" 48" 96"	30" 36" 48" 96"	<u>30" 36" 48" 96"</u>
頭							
<u></u>		ĬĔ	SIGN NUMBER	W20-5 (R OR L)	W20-7	W207a	★ G20-1
38F	CONSTRUCTION	ISLAND DEPARTMENT	LEGEND	(SEE NOTE 2)	(SEE 2)	$\langle \hat{\mathbf{T}} \rangle$	ROAD WORK NEXT 5 MILES
	4	1	COLOR BACKGROUND		ORANGE	ORANGE	
ORTA	R		WIDTH	BLACK 30" 36" 48" 96"	BLACK 30" 36" 48" 96"	BLACK 30" 36" 48" 96"	BLACK 60"
	ы С	19	DIMENSION HEIGHT	30° 36° 48° 96°	30" 36" 48" 96"	30" 36" 48" 96"	24"
HIS DESIGN ENGINEER	TION	T Q	SIGN NUMBER	★ G20-2A		<u>. </u>	
	SIGNS	TRANSPORTATION	LEGEND	END ROAD WORK			
JUNE 15.	S	R	COLOR	ORANGE			
ā.		전	COPY	BLACK			
		Þ	DIMENSION HEIGHT	48" 24"			
1998		15		<u> </u>	I		
98		Ž	<u>NOTES:</u> 1. SHALL BE IN ACC 2. LEGEND ON W20-	ORDANCE WITH SECTIO SERIES SHALL INDICAT	N 922 OF THE R.I. S E DISTANCE AS FOLL	STANDARD SPECIFICATI OWS: 1500 FT 1/2 MII	ONS. LE
(A)						500 FT AHEAD	
29.1.0	R.I.)	 3. DENOTES TYPE 4. CONSTRUCTION SI 	I = DETOUR 1500 FT ☑ GRADE SHEETING. GNS SHALL BE MOUNT SIGNS SEE THE MUTCD	ED IN ACCORDANCE		.2.0 OR 24.3.0.

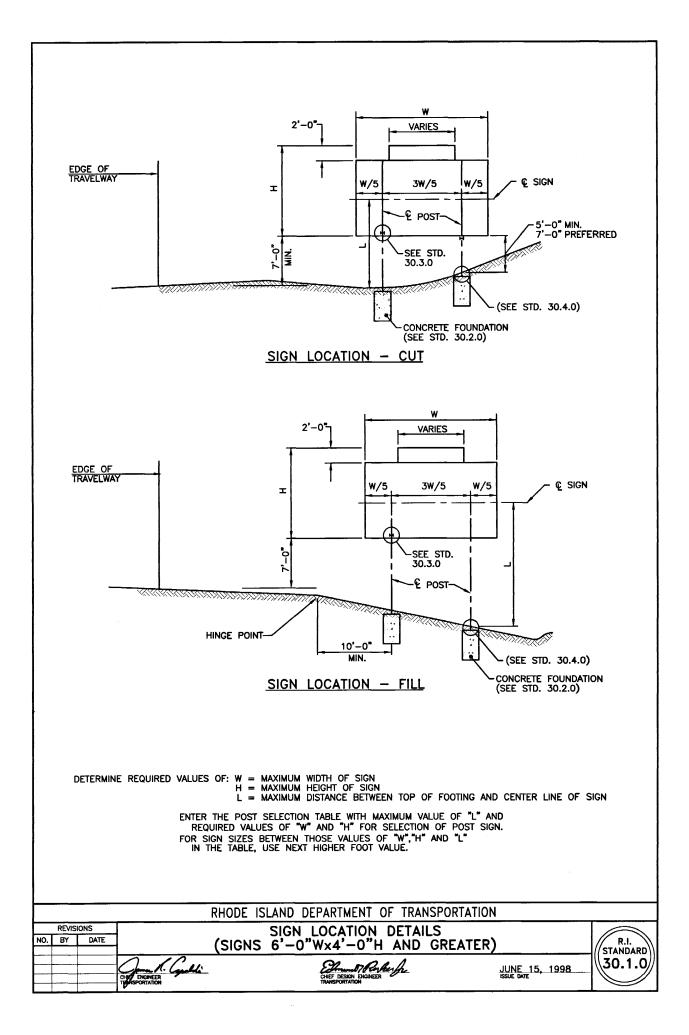




CHIEF	ENGINEER	FOR	
INFRAS	STRUCTURE		

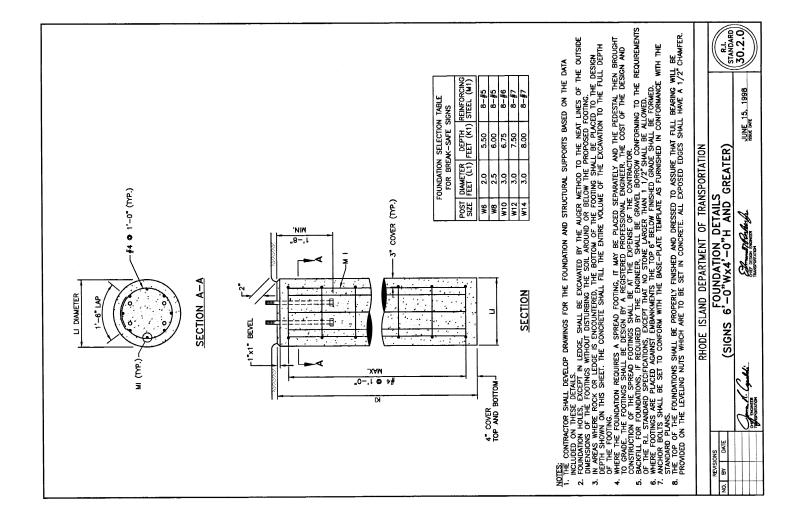
<u>SEPTEMBER 25, 2024</u> ISSUE DATE

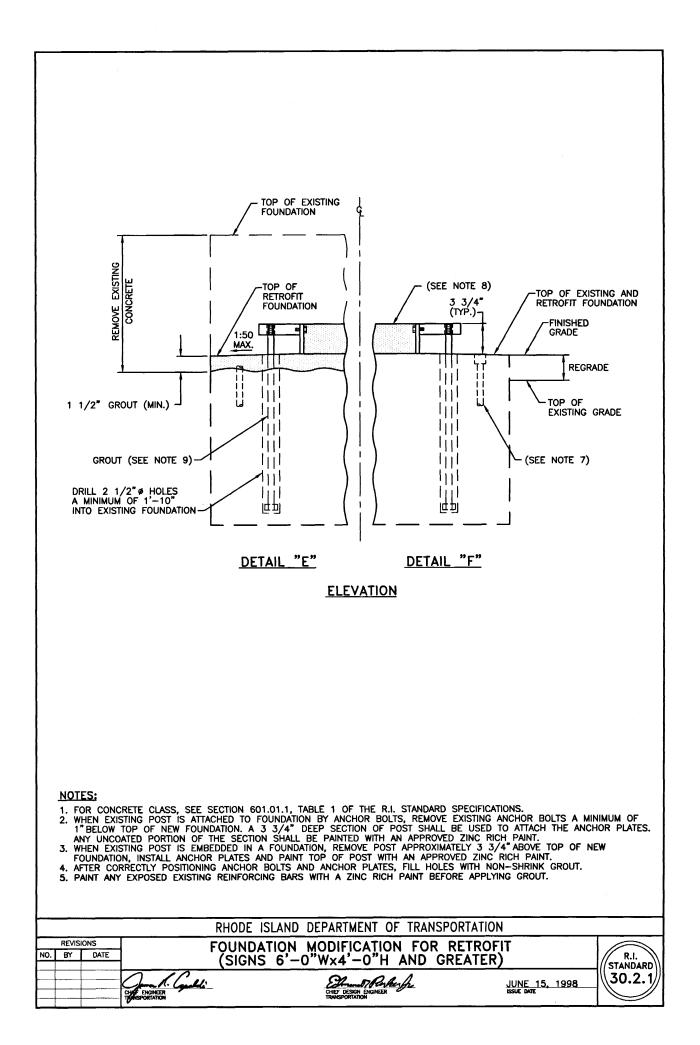
	NUMBER		-1	M1-4	M1-5 (SEE NOTE 1)	M2-1
LEG	END		NITERSTATE RHODE ISLAND	00	RI OO	JCT STATE INTERS
COLOR		STANDARD INTERSTATE COLORS	STANDARD INTERSTATE COLORS WHITE	BLACK-WHITE SHIELD BLACK	WHITE BLACK	WHITE WHI BLACK BLA
	COPY WIDTH	WHITE 24" 36" 48"	30" 45" 60"	24"	24" 30"	21" 21
DIMENSION	HEIGHT	24" 36" 48"	24" 36" 48"	24*	24" 24"	15" 15
SIGN	NUMBER	M3-1,2,3,4 (SEE NOTE 3)	M4-5	M4-6	M4-8,9R	M4-10 (R OR I
LEG	END	NORTH -1 EAST -2 SOUTH -3 WEST -4 STATE INTERSTATE	TO STATE INTERSTATE	BEGINS	DETOUR -8 DETOUR -9R	DETOUR
COLOR	BACKGROUND	WHITE BLUE	WHITE BLUE	WHITE	ORANGE	BLACK
002011	COPY WIDTH	BLACK WHITE 24" 30" 24" 30"	BLACK WHITE 24" 30" 24" 30"	BLACK	BLACK 24" 30"	BLACK (ORANGE AR 48"
DIMENSION	HEIGHT	12" 15" 12" 15"	12" 15" 12" 15"	12" 15"	12" 24"	18"
SIGN	NUMBER	M5-1 (R OR L)	M5-2 (R OR L)	M5-1 (R OR L)	M5-2 (R OR L)	M6-1
				INTERSTATE	INTERSTATE	
LEG	END	1	ľ			
COLOR	BACKGROUND	WHITE BLACK	WHITE BLACK	BLUE	BLUE WHITE	BLACK
	COPY WIDTH	21"	21*	21"	21"	21"
DIMENSION	HEIGHT	15"	15"	15"	15"	15"
SIGN	NUMBER	M6-2 (R OR L)	M6-3	M6-4	M6-1	M6-2 (R OR L)
LEG	END					INTERSTATE
COLOR	BACKGROUND	WHITE	WHITE	WHITE	BLUE	BLUE
	COPY WIDTH	BLACK 21"	BLACK 21"	BLACK 21"	21"	WHITE 21"
DIMENSION	HEIGHT	15"	15"	15"	15"	15"
SIGN	NUMBER	M6-3	M6-4	1-4	D9-2	D10-1 D10
LFG	END			XX	H	CONVENTIONAL MILE 0 0
COLOR	BACKGROUND		WHITE	BLUE	BLUE	GREEN
	BACKGROUND COPY WIDTH	WHITE	WHITE BLACK 21"	BLUE WHITE 24"x24"	BLUE WHITE (LETTER AND ARROW) 24"x24"	WHITE
	COPY		BLACK	WHITE	WHITE (LETTER AND ARROW)	WHITE 10" 10
COLOR	COPY WIDTH	WHITE 21"	BLACK 21" 15" D10-4 D10-5	WHITE 24"x24"	WHITE (LETTER AND ARROW) 24"x24"	WHITE 10" 10
COLOR DIMENSION SIGN	Copy Width Height	WНПЕ 21" 15"	BLACK 21" 15"	WHITE 24"x24" 24"x6" (PLAQUE)	WHITE (LETTER AND ARROW) 24"x24"	WHITE 10" 10
COLOR DIMENSION SIGN	COPY WIDTH HEIGHT NUMBER END	WHITE 21* 15* D10-3A 4* 1 1 1 1 1 1 1 2* 1 1 1 1 2* 1 1 1 1 1 1 1 1 1 1 1 1 1	BLACK 21" 15" D10-4 D10-5 EXPRESSWAY-FREEWAY MILE 0 0 GREEN	WHITE 24"x24" 24"x6" (PLAQUE) D11-1 BIKE ROUTE BIKE ROUTE GREEN	WHITE (LETTER AND ARROW) 24"x24"	WHITE 10" 10
COLOR DIMENSION SIGN	COPY WIDTH HEIGHT NUMBER	WHITE 21* 15* D10-3A 4* 1 1 1 1 1 1 1 2* 1 1 1 1 2* 1 1 1 1 1 1 1 1 1 1 1 1 1	BLACK 21" 15" D10-4 D10-5 EXPRESSWAY-FREEWAY MILE 0 0	WHITE 24*x24* 24*x6* (PLAQUE) D11-1 BIKE ROUTE BIKE ROUTE	WHITE (LETTER AND ARROW) 24"x24"	WHITE 10" 10
COLOR DIMENSION SIGN LEC COLOR DIMENSION NOTES: 1. SHALL 2. SIGN M A. LEG B. ONE C. TWO D. BOF F. POS 3. M3-SE 4. D10-3	END BE IN ACCO WIDTH HEIGHT BE IN ACCO WIDTH HEIGHT BE IN ACCO UNDER END RI SHA END RI S	WHITE 21* 15* D10-3A 4** 1	BLACK 21" 15" DIO-4 DIO-5 EXPRESSWAY-FREEWAY MILE 0 0 GREEN WHITE 12" 12" 24" 36" DNS T.15 OF THE R.I. E I.2" SERIES D. MP SIGNS. 5 WIDTH.	WHITE 24"x24" 24"x6" (PLAQUE) D11-1 GREEN WHITE 24"x6" (PLAQUE) STANDARD SPECIFICA	WHITE (LETTER AND ARROW) 24*224* 24*x6* (PLAQUE)	WHITE 10" 10
COLOR DIMENSION SIGN LEC COLOR DIMENSION DIMENSION NOTES: 1. SHALL 2. SIGN M A. LEG B. ONE C. TWC D. BOF F. POS 3. M3-SE 4. D10-3 5. GUIDE 6. FOR AL	COPY WIDTH HEIGHT NUMBER END END BE IN ACCO 11-5: END RI SHA NUS -1 1/ IT LENGTH INUS -1 1/ IT LENGTH SIGNS SHAI	DID-3A DID-3A	BLACK 21" 15" D10-4 D10-5 EXPRESSWAY-FREEWAY MILE 0 GREEN WHITE 12" 12" 24" 36" DNS T.15 OF THE R.I. E 12" SERIES D. MP SIGNS. WIDTH. CCORDANCE WITH STD D.	WHITE 24"x24" 24"x6" (PLAQUE) D11-1 GREEN WHITE 24"x6" (PLAQUE) STANDARD SPECIFICA	WHITE (LETTER AND ARROW) 24*x24* 24*x6* (PLAQUE) 	WHITE 10" 10
COLOR DIMENSION SIGN LEC COLOR DIMENSION NOTES: 1. SHALL 2. SIGN M A. LEG B. ONE C. TWC D. BOF F. RAD F. POS 3. M3-SE 4. D10-3 5. GUIDE 6. FOR AI	COPY WIDTH HEIGHT NUMBER END END BE IN ACCO 11-5: END RI SHA NUS -1 1/ IT LENGTH INUS -1 1/ IT LENGTH SIGNS SHAI	DID-3A DID-3A	BLACK 21" 15" D10-4 D10-5 EXPRESSWAY-FREEWAY MILE 0 GREEN WHITE 12" 12" 24" 36" DNS T.15 OF THE R.I. E E. E 12" SERIES D. MP SIGNS. S WIDTH. CCORDANCE WITH STD D. E ISLAND DEPART	WHITE 24*x24* 24*x6* (PLAQUE) D11-1 BIKE ROUTE GREEN WHITE 24*x18* 24*x18* 24*x6* (PLAQUE) STANDARD SPECIFICA STANDARD SPECIFICA	WHITE (LETTER AND ARROW) 24*x24* 24*x6* (PLAQUE) 	WHITE 10" 10

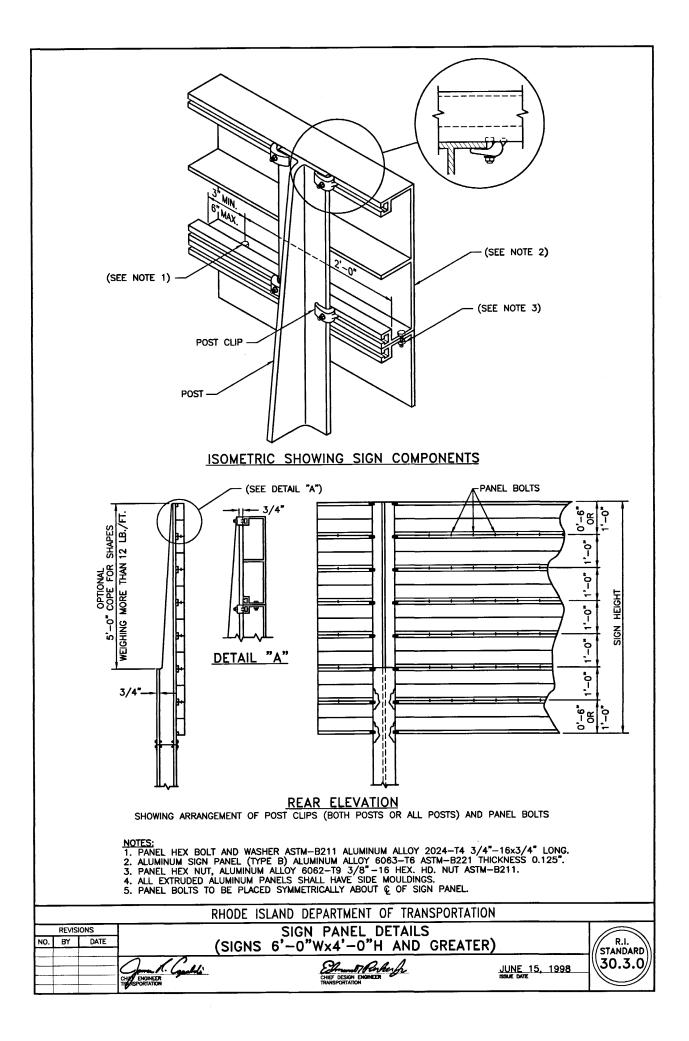


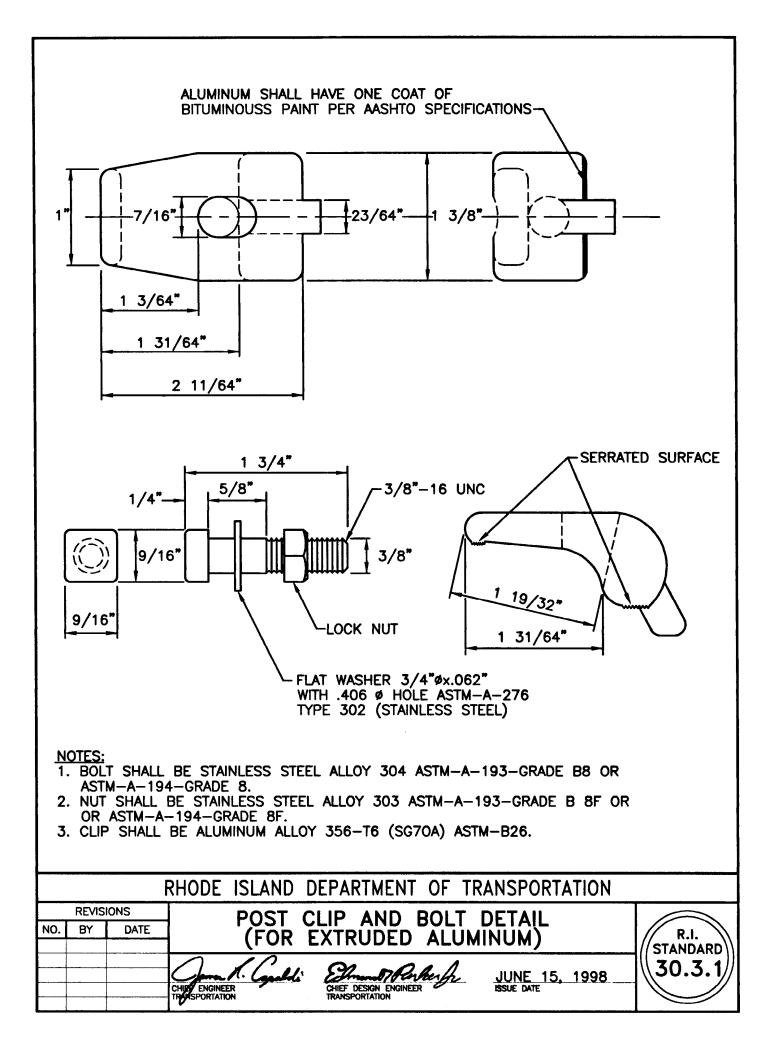
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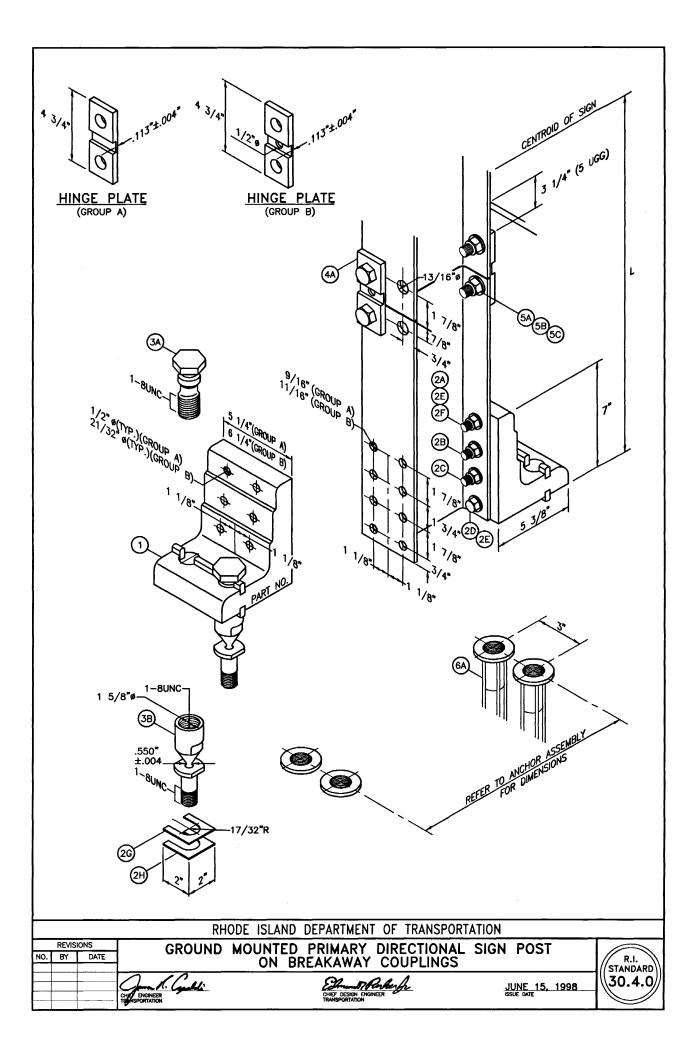
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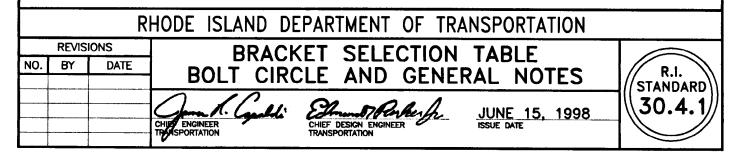




	BRACKET SELECTION TABLE								
	POST SIZE	#1 E=	=.100"	# 2 E=	=.150"	#3 E=.200"		#4 E=.250"	
	FUST SIZE	MIN. L	MAX. L	MIN. L	MAX. L	MIN. L	MAX. L	MIN. L	MAX. L
GROUP A	6 WF 9 6 WF 12 6 WF 15 8 WF 18 8 WF 21	12'-2" 12'-4" 12'-4" 14'-1" 14'-3"	25'-0" 25'-0"	8'-7" 8'-9" 8'-9" 10'-0" 10'-2"	12'-1" 12'-3" 12'-3" 14'-0" 14'-2"	6'-7" 6'-9" 6'-9" 7'-9" 7'-11"	8'-6" 8'-8" 8'-8" 9'-11" 10'-1"	 	6'-6" 6'-8" 6'-8" 7'-8" 7'-10"
GROUP B	10 WF 22 10 WF 26 12 WF 26 14 WF 30	15'-9" 15'-10" 17'-6" 19'-3"	25' – 0"	11'-3" 11'-4" 12'-6" 13'-10"	15'-8" 15'-9" 17'-5" 19'-2"	8'-7" 8'-8" 9'-7" 10'-8"	11'-2" 11'-3" 12'-5" 13'-9"	 	8'-6" 8'-7" 9'-6" 10'-7"

		CIRCLE ETER)
GROUP A	6 WF 9 6 WF 12 6 WF 16 6 WF 20 8 WF 18 8 WF 21 8 WF 24	15-1/4" 15-3/8" 15-1/2" 15-1/2" 17-1/4" 17-3/8" 17-1/8"
GROUP B	10 WF 22 10 WF 26 10 WF 30 12 WF 26 12 WF 30	19-1/2" 19-5/8" 19-3/4" 21-1/2" 23-3/16"

- 1. SHALL MEET ALL REQUIREMENTS OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS."
- 2. ALL HARDWARE (AMERICAN STANDARD) SUPPLIED ISHALL BE HOT DIP GALVANIZED PER ASTM A153 OR MECHANICALLY GALVANIZED PER ASTM B695.
- 3. FASTENERS, EXCEPT FOR SPECIAL BOLT AND COUPLING SHALL BE INSTALLED WITH LOCKWASHERS OR LOCKNUTS AND DO NOT HAVE SPECIFIC TORQUE REQUIREMENTS. FASTNERS SHOULD BE MADE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES UNLESS NOTED OTHERWISE.
- 4. SQUARE AND LEVEL INDIVIDUAL COMPONENTS TO MINIMIZE NEED FOR SHIMMING.
- 5. STRUCTURAL STEEL TO BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION.
- 6. NO MORE THAN TWO SHIMS UNDERNEATH ANY ONE COUPLING AND NO MORE THAN THREE SHIMS UNDERNEATH ANY TWO COUPLINGS.
- 7. SELECT PROPER POST SIZE BY REFERRING TO POST SELECTION TABLES FOR MEDIUM AND LARGE SIGNS.



INSTALLATION NOTES:

WRENCH SIZES REQUIRED: 9/16", 7/8", 1", 1 1/16", 1 1/4", 1 7/16", 1 5/8"

ANCHOR ASSEMBLY:

- 1. ASSEMBLE COUPLING ANCHORS 6A TO INSTALLATION TEMPLATE (NOT SHOWN). RIGID STEEL TEMPLATE IS RECOMMENDED.
- 2. LOWER ENTIRE ANCHOR ASSEMBLY INTO FRESH CONCRETE AND VIBRATE INTO POSITION SO THAT THE TOPS OF THE INDIVIDUAL ANCHORS 6A ARE FLUSH WITH THE FINISHED TOP SURFACE OF THE FOOTINGS.

BRACKET ASSEMBLY:

- 1. ASSEMBLE BRACKET TO POST WITH BOLTS PROVIDED.
- 2. SQUARE AND TIGHTEN. (ITEMS 1, 2A, 2B, 2C, 2D, 2E, AND 2F)

HINGE ASSEMBLY:

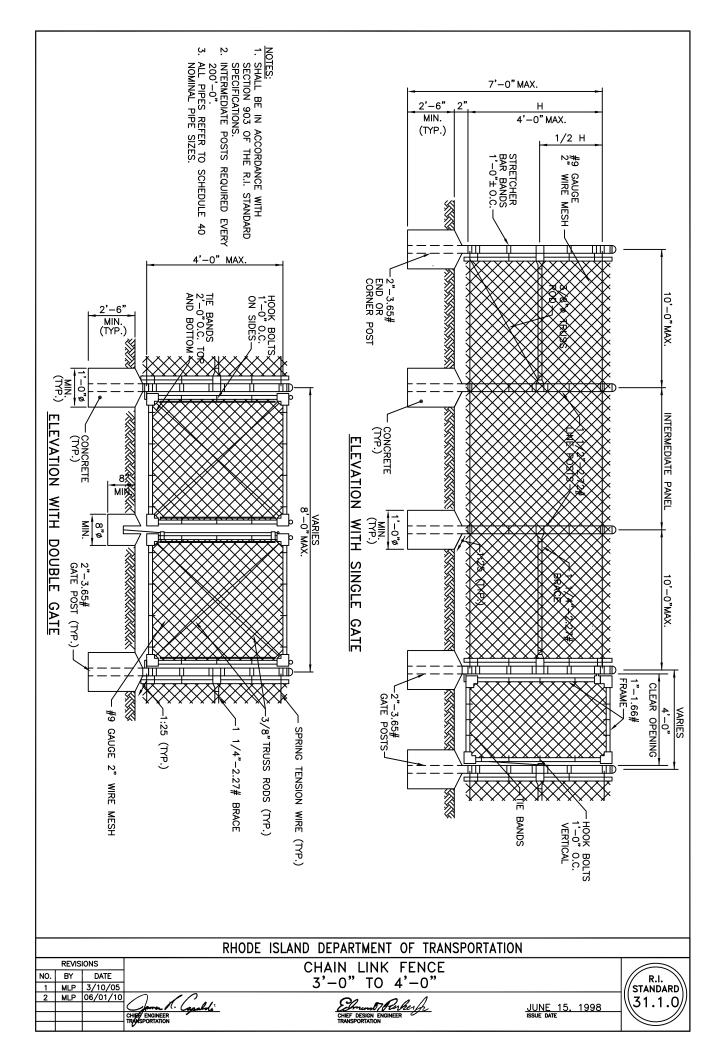
- 1. BUTT UPPER AND LOWER POSTS TOGETHER ON FLAT SURFACE.
- 2. PLACE HINGE PLATES 4A ON OUTER FLANGES AND SECURE WITH BOLTS 5A, 5B AND 5C. SNUG BUT DO NOT TIGHTEN.
- 3. MAKE SURE UPPER AND LOWER POSTS ARE IN ALIGNMENT, THEN TIGHTEN ALL NUTS 5C TO PROOF LOAD (1/2 TURN BEYOND SNUG).

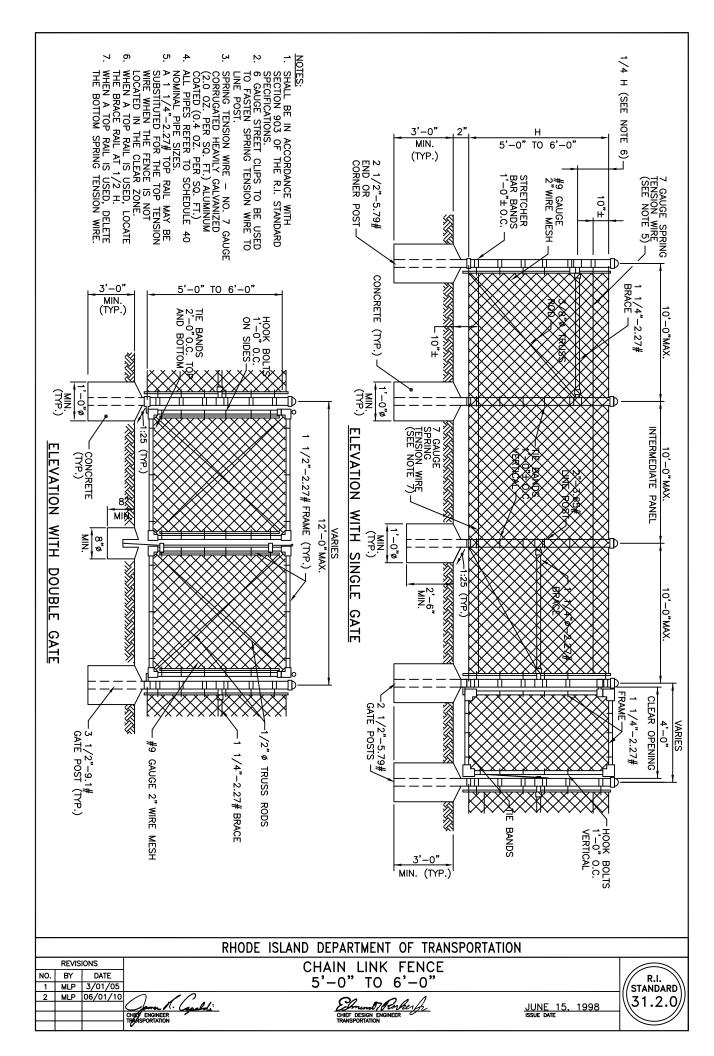
COUPLING ASSEMBLY:

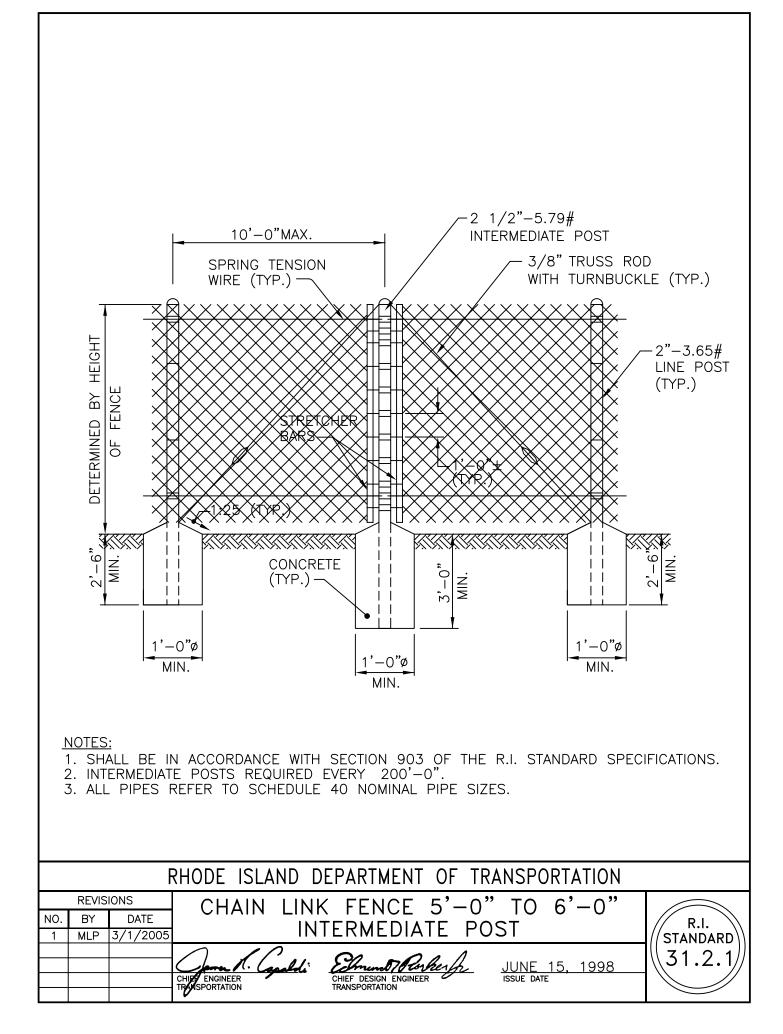
- 1. SUSPEND POST OVER FOOTING AND INSERT SPECIAL BOLTS 3A THROUGH BRACKET 1.
- 2. BELOW BRACKET, THREAD COUPLINGS 3B INTO ANCHORS 6A BUT LEAVE LOOSE.
- 3. LOWER POST WITH SPECIAL BOLTS 3A ONTO LOOSE COUPLINGS 3B AND THREAD BOLTS INTO COUPLINGS.
- 4. THREAD COUPLINGS ALL THE WAY IN ANCHORS 6A.
- 5. TIGHTEN SPECIAL BOLTS 3A. DO NOT PLACE TORQUE ACROSS NECKED DOWN PORTION OF COUPLINGS. WRENCH FLATS ARE PROVIDED ON EITHER SIDE FOR PROPER TIGHTENING.
- 6. IF POST IS NOT PLUMB, INSERT SHIMS 2G AND 2H BETWEEN COUPLINGS 3B AND AND ANCHOR 6A.

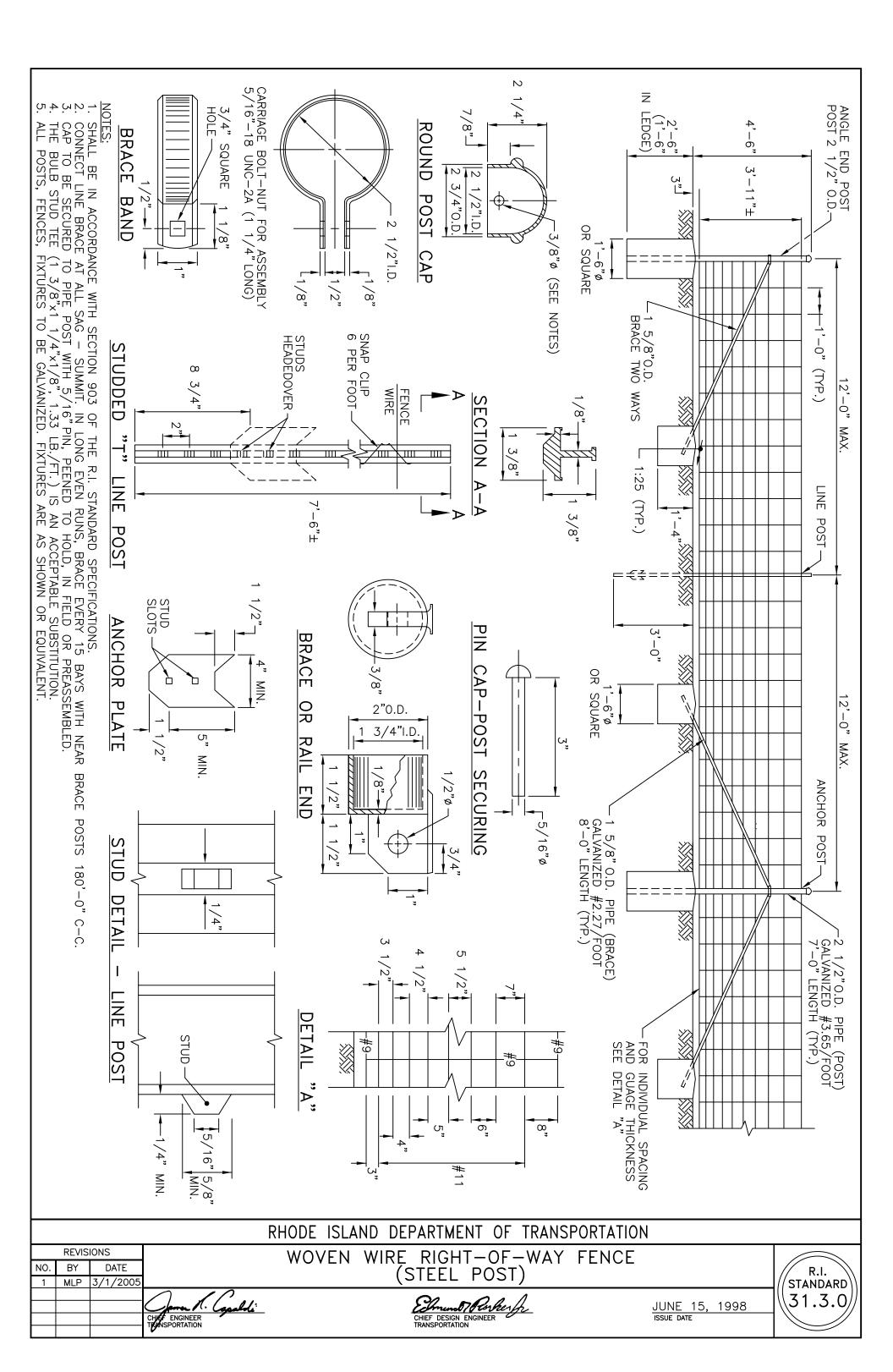
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS		
NO.	BY	DATE	INSTALLATION NOTES	R.I.
			CHIEF ENGINEER CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE SSUE DATE	STANDARD 30.4.2

	NO.								
	BY			BILL OF MATERIALS					
	BY DATE			ITEM DESCRIPTION Q					
	ATE		1	BRACKET	6061- T6 ALUMINUM (SEE BRACKET SELECTION TABLE)	2			
CHIL DESIGN FOR DESIGN ENGINEER SUE ONTE THE SPORTATION THE SPORTATION	BILL OF MATERIALS	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	2B 2C 2D 2E 2F 2G 2H 3A 3B 4A	BOLT BOLT CAP SCREW LOCKWASHER NUT SHIM SHIM SPECIAL BOLT COUPLING HINGE PLATE	BRACKET HARDWARE ASSEMBLY: GROUP A - $1/2^*$ -13UNC x 2- $1/2^*$, HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP B - $5/8^*$ -11UNC x 2- $3/4^*$, HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC x 2- $3/4^*$, HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP B - $5/8^*$ -11UNC x 3", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP B - $5/8^*$ -11UNC x 3", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC x 3- $1/4^*$, HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC x 1- $1/4^*$, HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC x 1- $1/4^*$, HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC x 1- $1/4^*$, HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC x 1- $1/4^*$, HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC, X 1- $1/4^*$, HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC, HEAVY HEX, ASTM A563, GR. DH, GALV., ASTM A153 GROUP A - $1/2^*$ -13UNC, HEAVY HEX, ASTM A563, GR. DH, GALV., ASTM A1531 GROUP B - $5/8^*$ -ANSI B18-21-1, GALV., ASTM A563, GR. DH, GALV., ASTM A1531 GROUP A - 21^* HORSESHOE, 18 GAUGE, GALV., STEEL SHEET 1"HORSESHOE, 14 GAUGE, GALV., STEEL SHEET 1"HORSESHOE, 14 GAUGE, GALV., STEEL SHEET 1"-8 UNC ASTM A449, CALY., ASTM A153/B695 1"-8 UNC LP., AMS 63780*, GALV., ASTM A153, POLYESTER COAT ** HINGE ASSEMBLY: GROUP A - TYPE B525, AISI A130 STEEL, GALV., ASTM A123 GROUP B - TYPE B650, AISI 4130 STEEL, GALV., ASTM A123 HINGE HARDWARE ASSEMBLY: $3/4^*$ -10UNC x 2- $1/4^*$, HEX HEAD, ASTM A325, GALV., ASTM A153	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 8			
1998		ĪON		LOCKWASHER NUT	3/4"ANSI B18-21-1, GALV., ASTM A153 3/4"-10UNC, HEAVY HEX, ASTM A563, GR. DH, GALV., ASTM A153	8 8			
30.	R.I.		6A	ANCHOR	ANCHOR ASSEMBLY: GROUP A -1"-8UNC, 304 S.S. FERRULE, AISI 1038 ROD. AISI 1008 COIL GROUP B -1"-8UNC, 304 S.S. FERRULE, AISI 1008 COIL *WITH EXCEPTION TO DECARBURIZATION AND MACROSTRUCTURE CLAUSES	4 4			
4.3					**2-4 MIL. THICK MORTON POWDER COATINGS' 20-7037 POLYESTER POWDER COAT	r			

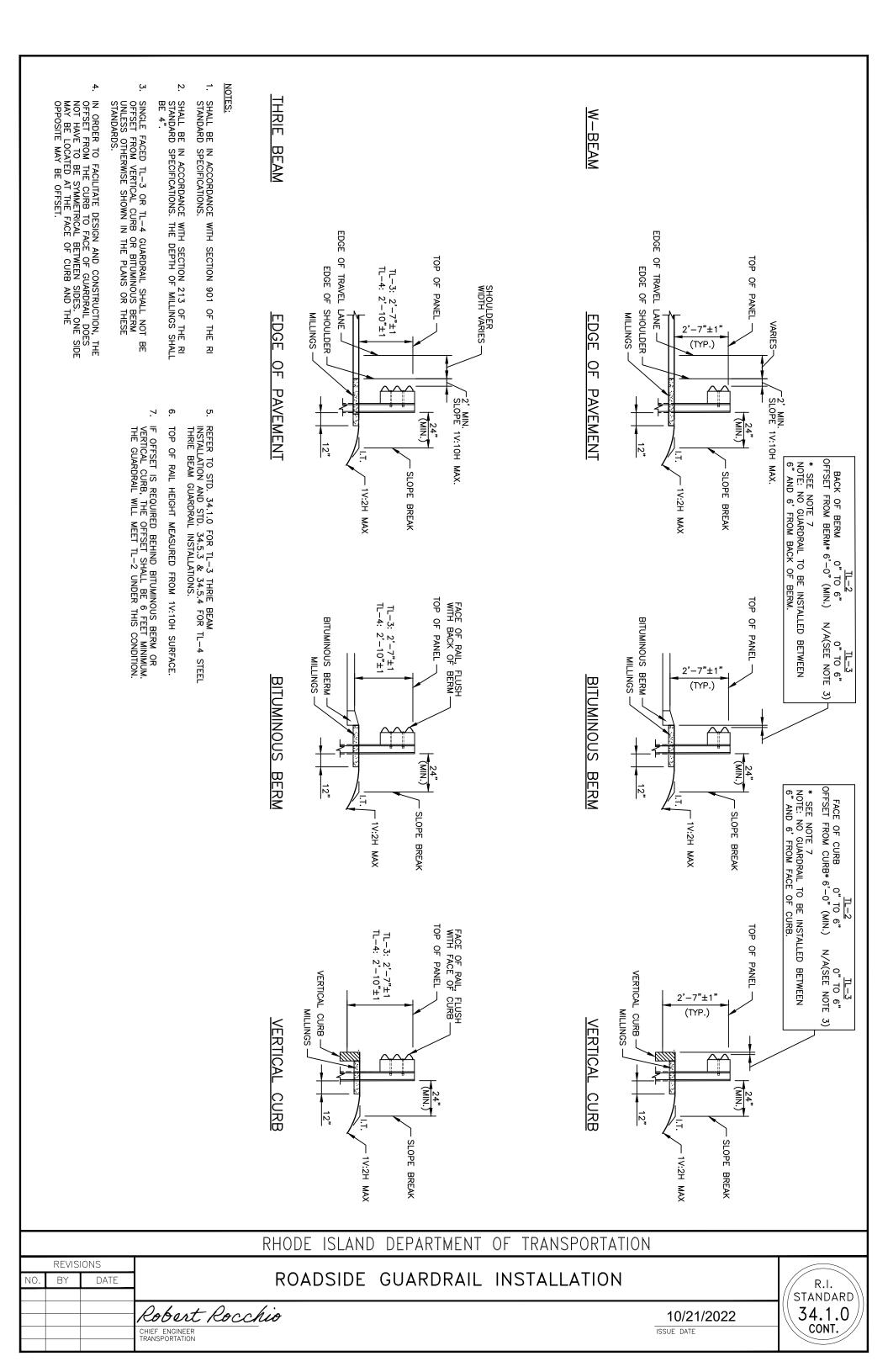


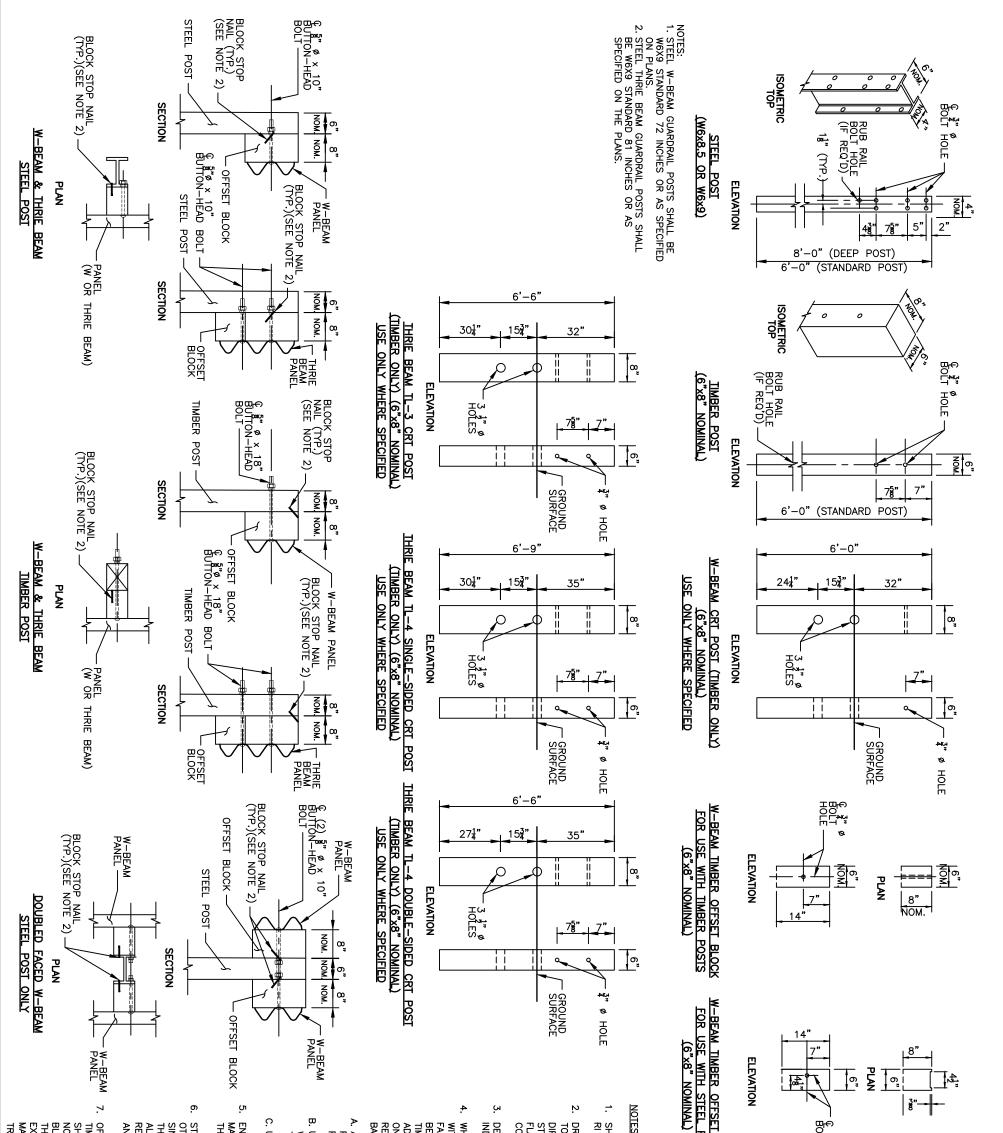




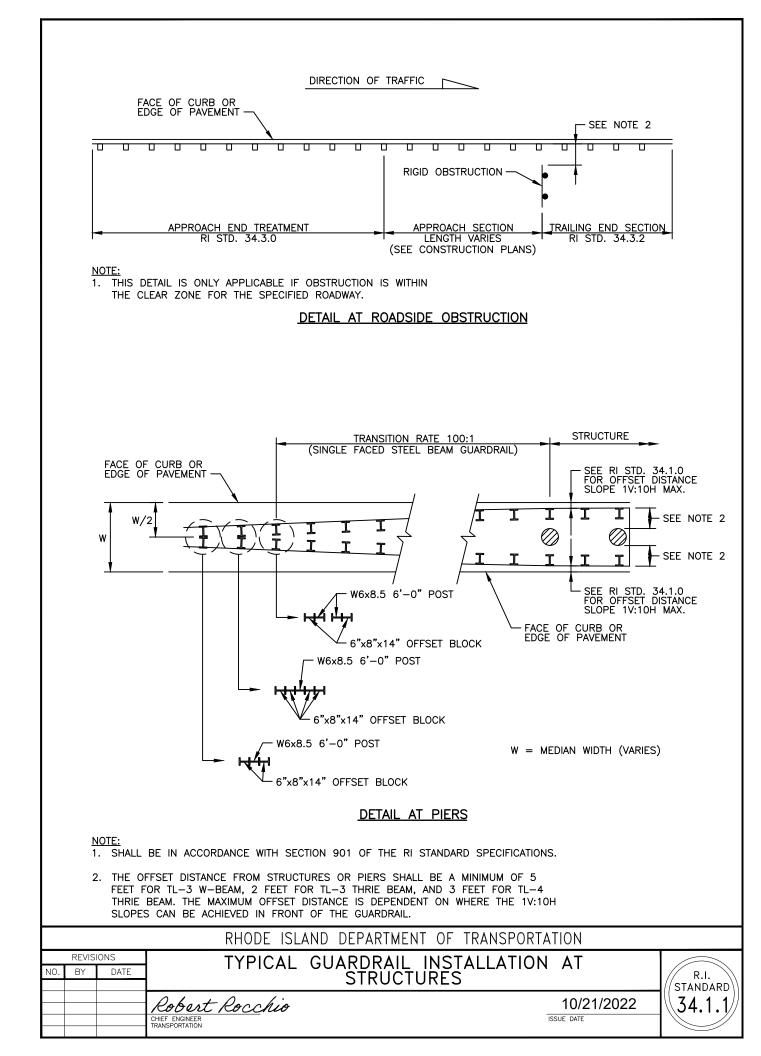


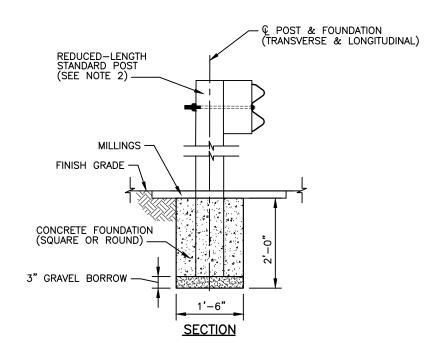
 ALL DIMENSIONS OF STANDARD GUARDRAIL COMPONENTS, INCLUDING PANELS, POSTS, OFFSET BLOCKS, BOLTS, NUTS, WASHERS AND HOLES, ARE BASED UPON ENGLISH UNIT CONVERSIONS OF THE AASHTO-AGC JOINT COMMITTEE TASK FORCE 13 REPORT: A GUIDE TO STANDARDIZING HIGHWAY BARRIER HARDWARE (<u>HTTP://WWW.AASHTOF13.ORG/BARRIER-HARDWARE .PHP</u>.)
2. ALL GUARDRAIL MATERIALS SHALL CONFORM TO M.08 UNLESS OTHERWISE INDICATED.
3. APPROVAL BY THE ENGINEER IS REQUIRED WHERE A DIFFERING GUARDRAIL CONFIGURATION IS REQUIRED FOR CONSTRUCTABILITY BEYOND THE OPTIONS SHOWN IN THESE STANDARDS OR THE PLANS.
4. THE BEGIN OR END STATION LABELS SHOWN IN THESE STANDARDS CORRESPOND TO THE STATION AND OFFSET CALLOUTS SPECIFIED IN THE PLANS.
5. USE 12'-6" NOMINAL LENGTH PANELS UNLESS OTHERWISE INDICATED IN THESE STANDARDS OR THE PLANS.
6. ALL LAP SPLICES SHALL BE MIDSPAN UNLESS OTHERWISE SHOWN.
7. LAP SPLICES SHALL BE CONSTRUCTED WITH THE SPLICE RIDGE ORIENTED DOWNSTREAM OF THE FINAL DIRECTION OF TRAFFIC IN THE NEAREST TRAVEL LANE. REORIENTING LAP SPLICES FOR TEMPORARY TRAFFIC CONTROL IS NOT REQUIRED.
8. STANDARD POSTS SHALL BE STEEL OR TIMBER, UNLESS OTHERWISE INDICATED IN THE PLANS, FABRICATED TO THE DIMENSIONS SHOWN ON POST AND OFFSET BLOCK DETAILS. POSTS OF A SINGLE MATERIAL TYPE SHALL BE USED THROUGHOUT AN ENTIRE RUN OF GUARDRAIL; EXCEPTIONS ARE ALLOWED ONLY WHEN SPECIFIC MATERIAL TYPES ARE REQUIRED FOR TRANSITIONS, END TREATMENTS, ANCHORAGES, AND/OR LONG SPAN UNITS.
9. DEEP POST SHALL ONLY BE USED WHERE INDICATED IN THESE STANDARDS OR THE PLANS.
10. OFFSET BLOCKS, WHERE REQUIRED, SHALL BE TIMBER AND FABRICATED TO THE NOMINAL DIMENSIONS SHOWN ON POST AND OFFSET BLOCK DETAILS. PLASTIC OR COMPOSITE OFFSET BLOCKS OF THE SAME NOMINAL DIMENSIONS THAT ARE LISTED ON THE QUALIFIED CONSTRUCTION MATERIALS LIST MAY BE SUBSTITUTED. OFFSET BLOCKS OF A SINGLE MATERIAL TYPE SHALL BE USED THROUGHOUT AN ENTIRE RUN OF GUARDRAIL; EXCEPTIONS ARE ALLOWED ONLY WHEN SPECIFIC MATERIAL TYPES ARE REQUIRED FOR TRANSITIONS, END TREATMENTS, AND/OR ANCHORAGES.
11. MILLINGS, WHERE CALLED, SHALL CONFORM TO SECTION 213 OF THE RI STANDARD SPECIFICATIONS. THE MILLINGS SHALL BE INSTALLED WITH A DEPTH OF 4".
12. GUARDRAIL DELINEATORS, CONFORMING TO SECTION 901 SHALL BE INSTALLED AT 25' INTERVALS WITHIN 100' OF END TREATMENT OR TRAILING ANCHORAGE AND AT 100' INTERVALS IN ALL OTHER AREAS UNLESS OTHERWISE SHOWN IN THE PLANS.
13. MINIMAL OFFSET DISTANCE FROM FACE OF W-BEAM PANEL TO A FIXED (NON-BREAKAWAY) OBJECT SHALL BE 48" FOR TL-2 AND 60" FOR TL-3.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
Robert Rocchio 10/21/2022
CHIEF ENGINEER TRANSPORTATION





OFFSET BLOCKOUTS, WHERE REQUIRED, SHALL BE TIMBER AND FABRICATED TO THE NOMINAL DIMENSIONS SHOWN; COMPOSITE BLOCKOUTS OF THE SAME NOMINAL DIMENSIONS MAY BE SUBSTITUTED. OFFSET BLOCKOUTS OF A SINGLE MATERIAL SHALL BE USED THROUGHOUT AN ENTIRE RUN OF GUARDRAIL; EXCEPTIONS ARE ALLOWED ONLY WHEN SPECIFIC MATERIAL TYPES ARE REQUIRED FOR TRANSITIONS, END TREATMENTS, AND/OR ANCHORAGE END SECTIONS.	SPECIFIED, ARE ON THE PLANS SHALL BE US JUARDRAIL; EX SPECIFIC MATE TIONS, END TR END SECTIONS	 A. AFTER TIGHTENING THE NUT, TRIM THE PROTRUDING POST BOLT FLUSH WITH THE NUT AND GALVANIZE PER M7.04.11; B. USE 15" POST BOLTS AND COUNTERSINK THE WASHER AND NUT BETWEEN 1" AND 1 ½" DEEP INTO THE BACK FACE OF THE POST; OR C. USE 15" POST BOLT SLEEVE NUT AND WASHERS. END TREATMENTS AND TRANSITIONS, WHERE SPECIFIC MATERIAL TYPES ARE SPECIFIED, ARE EXEMPT FROM 	DEEP STEEL POSTS SHALL ONLY BE USED WHERE INDICATED IN THESE STANDARDS OR THE PLANS. WHERE BACK OF POSTS ARE EXPOSED AND PLACED WITHIN 2'-O' OF A SIDEWALK, SEPARATED BIKE FACILITY OR SHARED-USE PATH, TIMBER POSTS SHALL BE USED. ALTERNATIVELY, STEEL POSTS WITH A TIMBER BACKING. MAY BE SUBSTITUTED AT NO ADDITIONAL COST. WHEN TIMBER POSTS ARE USED, ONE OF THE FOLLOWING SAFETY TREATMENTS IS REQUIRED FOR ALL BOLTS PROTRUDING FROM THE BACK FACE OF THE POST:	ONE NA EVENT I POSTS, E BOLT CTS THE	- E I I I I I I I I I I I I I I I I I I	ELEVATION HOLE H	8" NOM. E=== Soo Nom. THRIE BEAM DX., TRANS.
		RHODE IS	SLAND DEPARTI	MENT OF ⁻	TRANSPORTA	TION	
REVISIONS	<u> </u>	POS	T & OFFSET	BLOCK	DETAILS		R.I. STANDARD
	CHIEF ENGINEER TRANSPORTATION	Rocchio				10/21/2022 ISSUE DATE	34.1.0 cont.

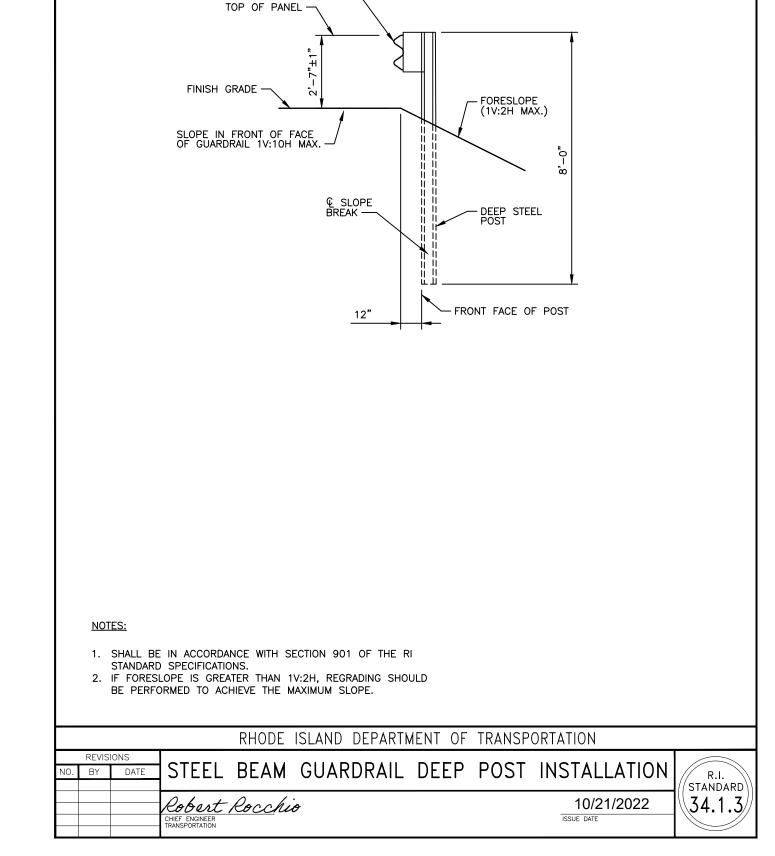




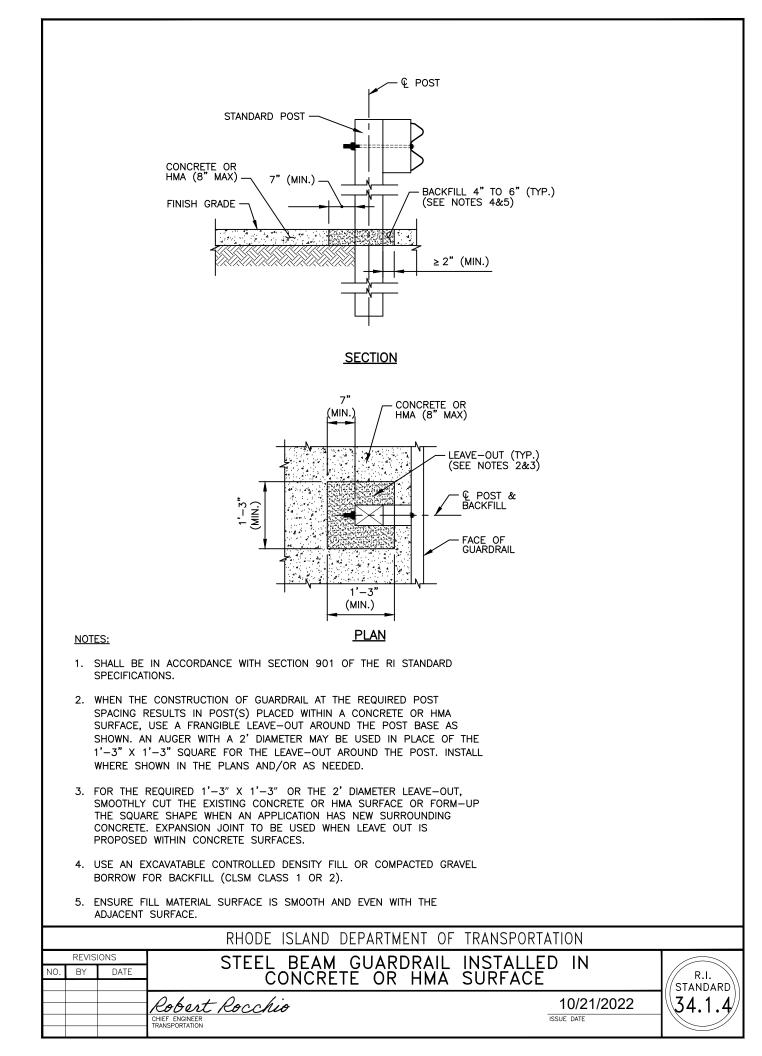
- 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE RI STANDARD SPECIFICATIONS.
- 2. WHEN THE CONSTRUCTION OF GUARDRAIL AT THE REQUIRED POST SPACING RESULTS IN POST(S) CONFLICTING WITH UNDERGROUND UTILITIES OR OTHER UNDERGROUND OBSTRUCTIONS, AN ENCASED POST MAY BE USED WHERE A 2'-O" DEPTH WILL AVOID THE CONFLICT. INSTALL WHERE SHOWN IN THE PLANS AND/OR AS-NEEDED.
- 3. USE A STANDARD POST WITH REDUCED LENGTH SUCH THAT THE PANEL HEIGHT IS MAINTAINED WHILE THE POST BOTTOM TERMINATES AT THE BOTTOM OF THE CONCRETE FOUNDATION AT THE TOP OF THE 3" (MIN) GRAVEL BORROW.
- 4. CONCRETE FOUNDATION SHALL BE CLASS XX CEMENT CONCRETE. AFTER CASTING THE CONCRETE, ENSURE THE SURROUNDING SOIL MATERIAL IS COMPLETELY BACKFILLED AND TAMPED TO PROVIDE FULL PASSIVE RESISTANCE.
- 5. ENCASED POSTS ARE NOT PERMITTED FOR CONSECUTIVE POSTS. IF MORE THAN ONE CONSECUTIVE ENCASED POST IS REQUIRED, A LONG SPAN SYSTEM SHALL BE UTILIZED. WHERE MULTIPLE ENCASED POSTS ARE REQUIRED IN A SINGLE GUARDRAIL RUN, NO MORE THAN ONE ENCASED POST SHALL BE USED EVERY 200' (MIN.).

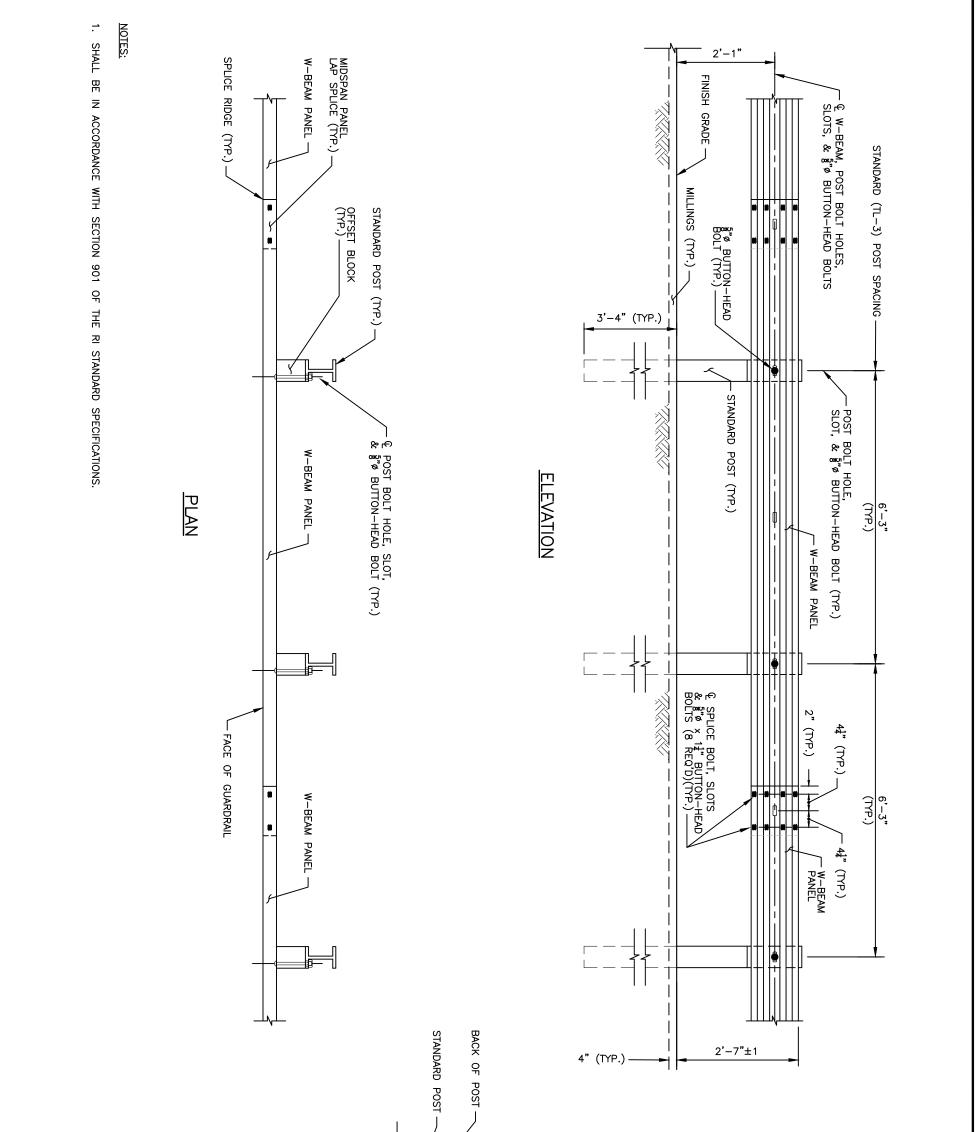
RHODE ISLAND	DEPARTMENT	OF	TRANSPORTATION
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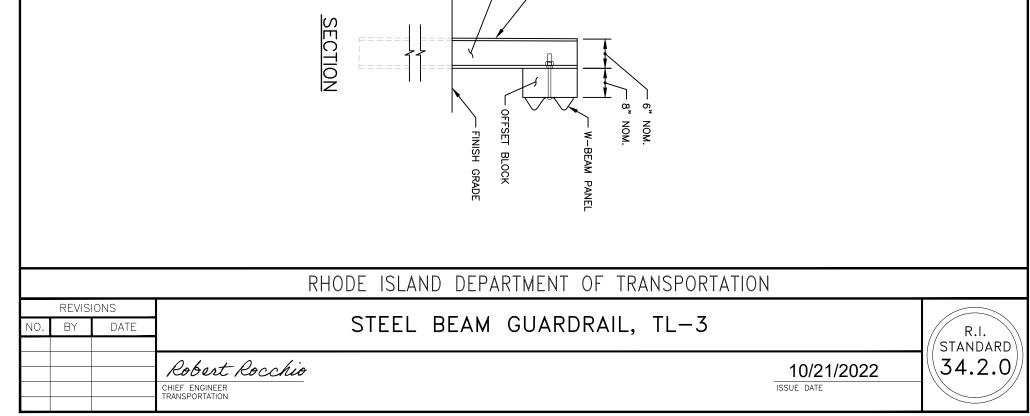
	REVIS	IONS	STEEL BEAM GUARDRAIL	
NO.	BY	DATE	ENCASED POST FOR SHALLOW INSTALLATION	R.I.
			ENCASED FOST FOR SHALLOW INSTALLATION	// STANDAR
			Pakant Panakia 10/21/2022	
			Robert Rocchio 10/21/2022	J\\J4.I.
			CHIEF ENGINEER ISSUE DATE ISSUE DATE	

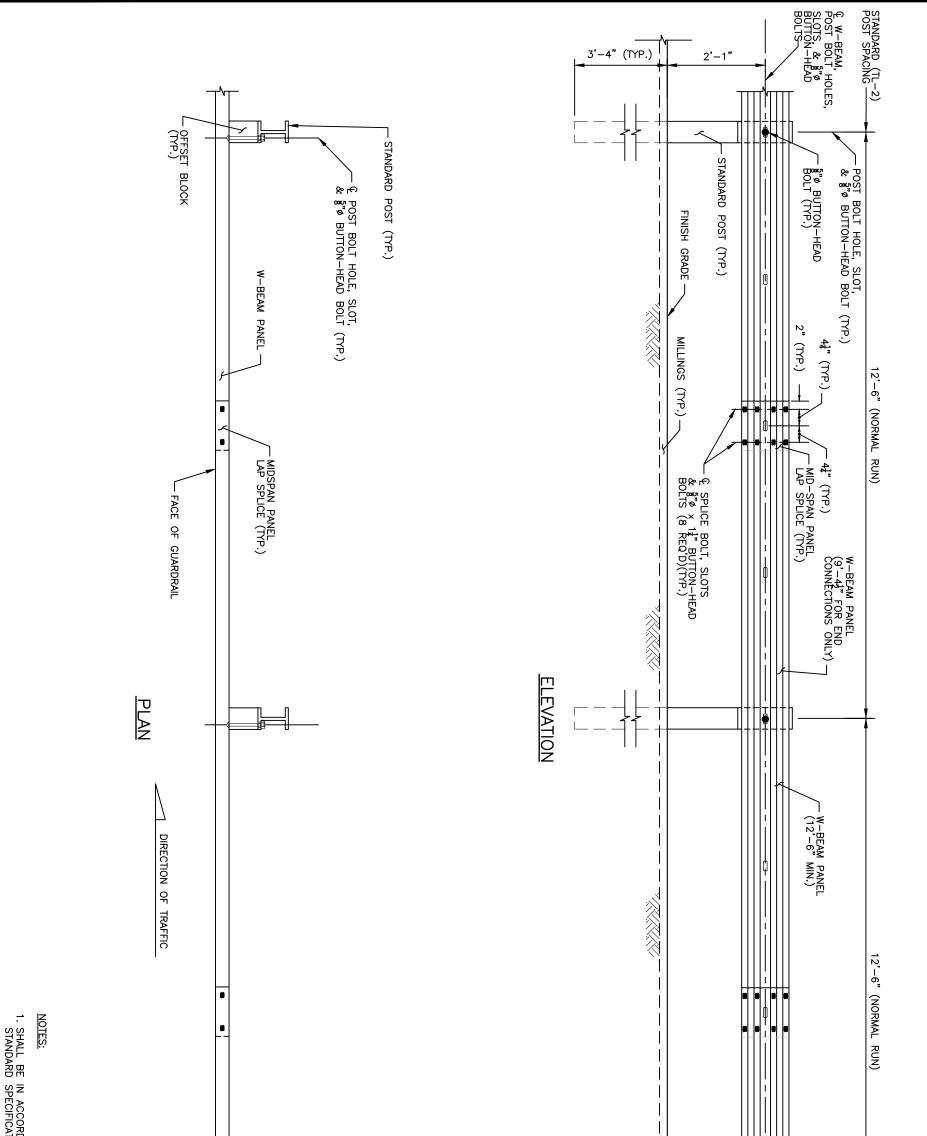


FACE OF GUARDRAIL FLUSH WITH TOP OF SLOPE -

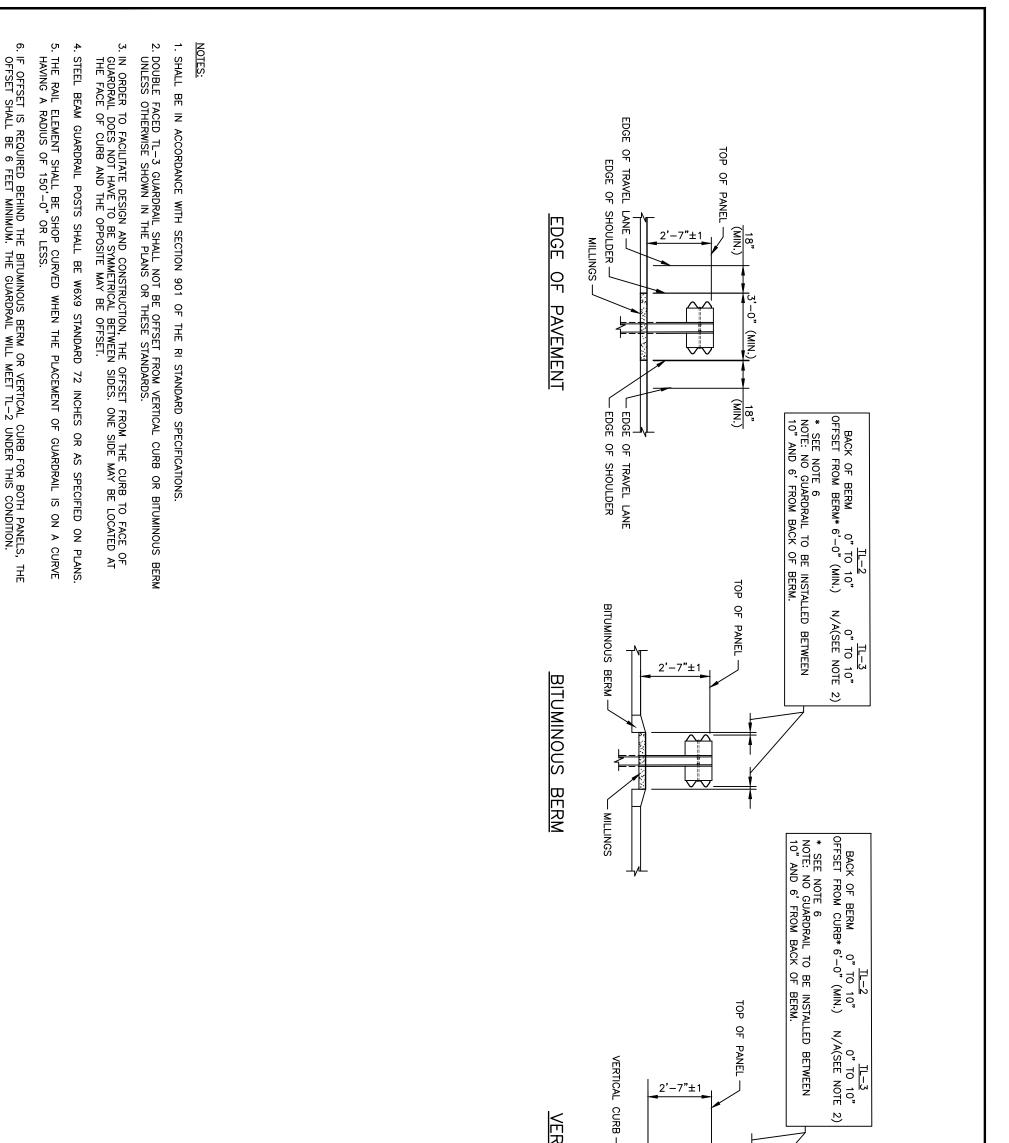




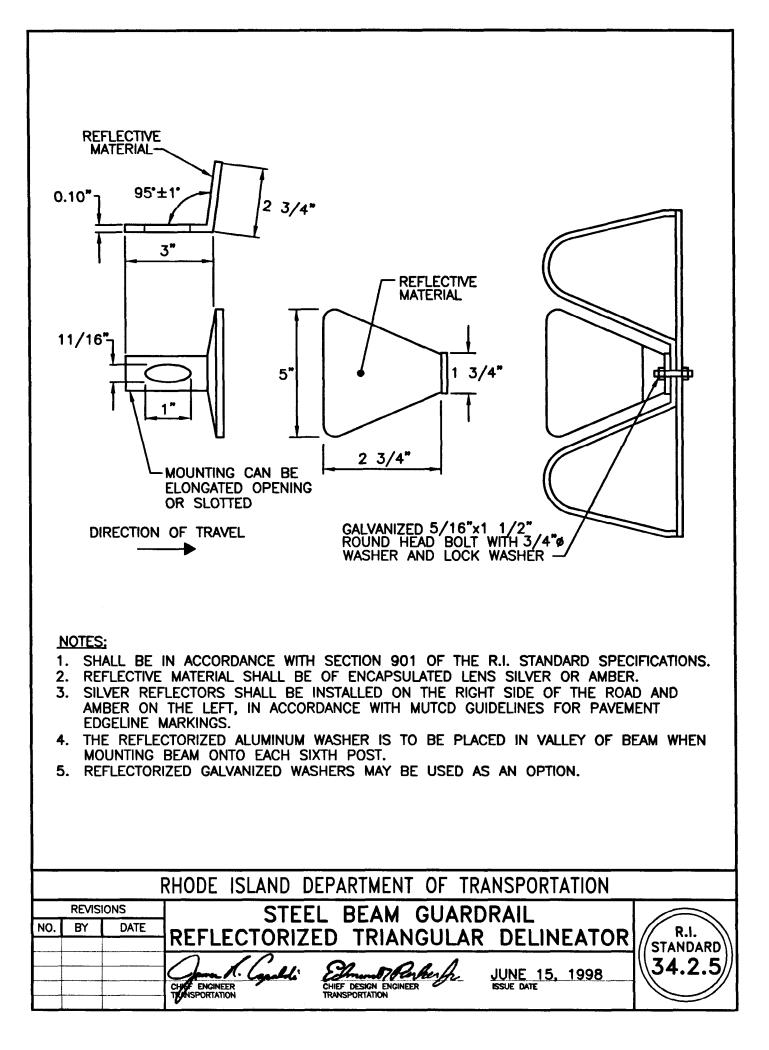


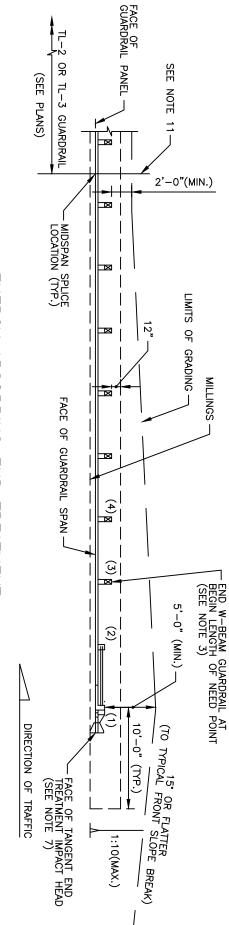


NOTES: 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE RI STANDARD SPECIFICATIONS. 2. A 9'-4 ¹ / ₂ " PANEL IS REQUIRED WHEN TRANSITIONING TO STEEL BEAM GUARDRAIL, TL-3 TO MAINTAIN PROPER POST SPACING.		RMAL RUN)
	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS NO. BY DATE	STEEL BEAM GUARDRAIL, TL-2	R.I. STANDARD
	Robert Rocchio10/21/2022CHIEF ENGINEER TRANSPORTATIONISSUE DATE	34.2.1



							MILLINGS		
			RHODE	ISLAND DEPAR	TMENT OF	TRANSPOF	RTATION		
REVISIONS	ATE	STEEL	BEAM	GUARDRAIL	DOUBL	E FACED	ASSEMBLY		R.I. STANDARD
	CHIEF ENGINER	<u>t Rocchio</u> ^{ER} ON					10/21/202 ISSUE DATE	22	34.2.2

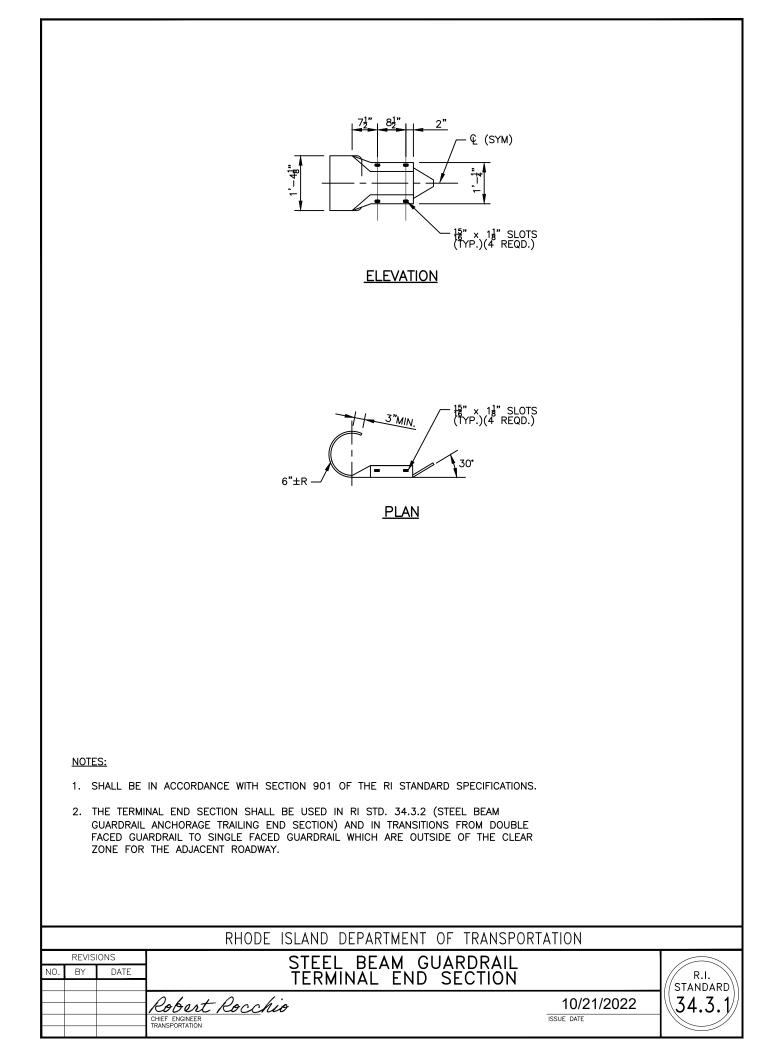


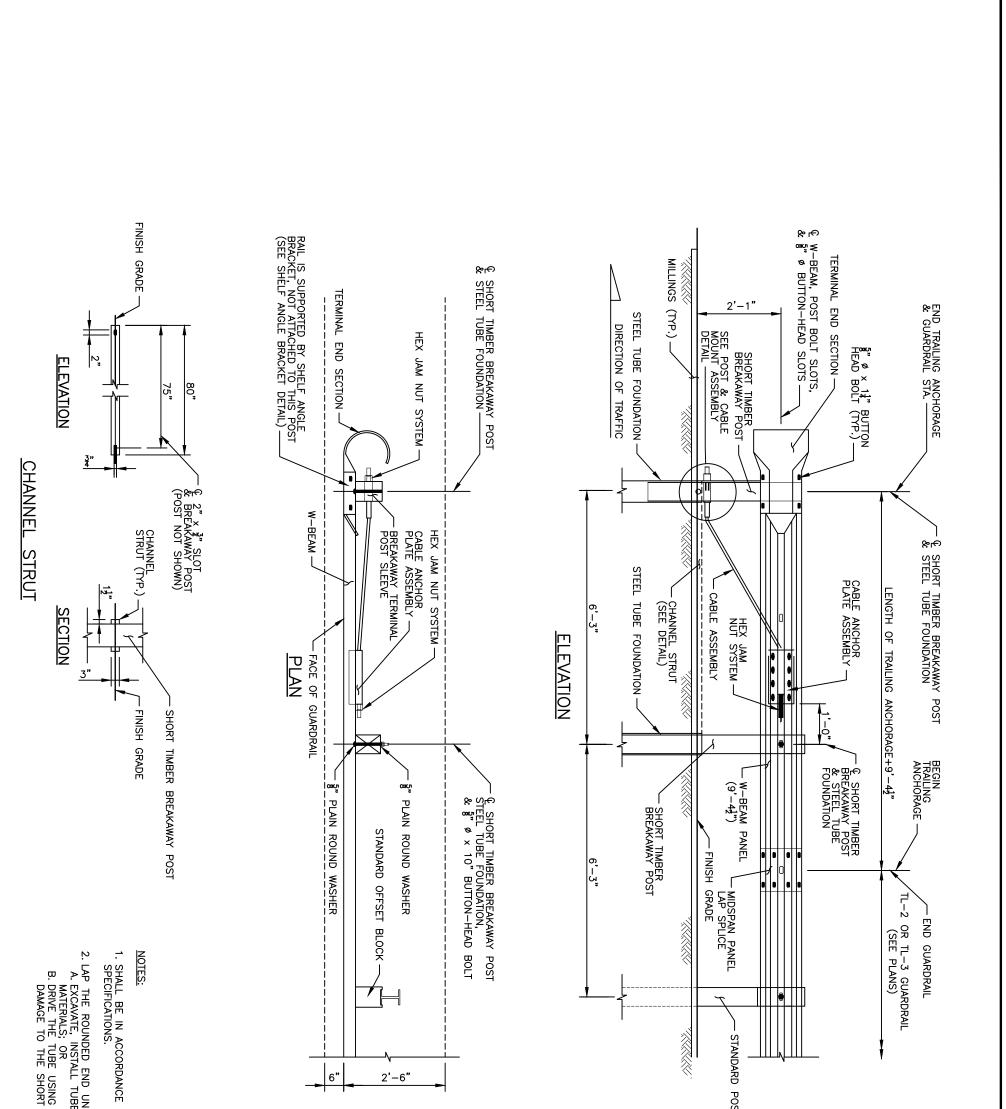


ENERGY ABSORBING END TREATMENT

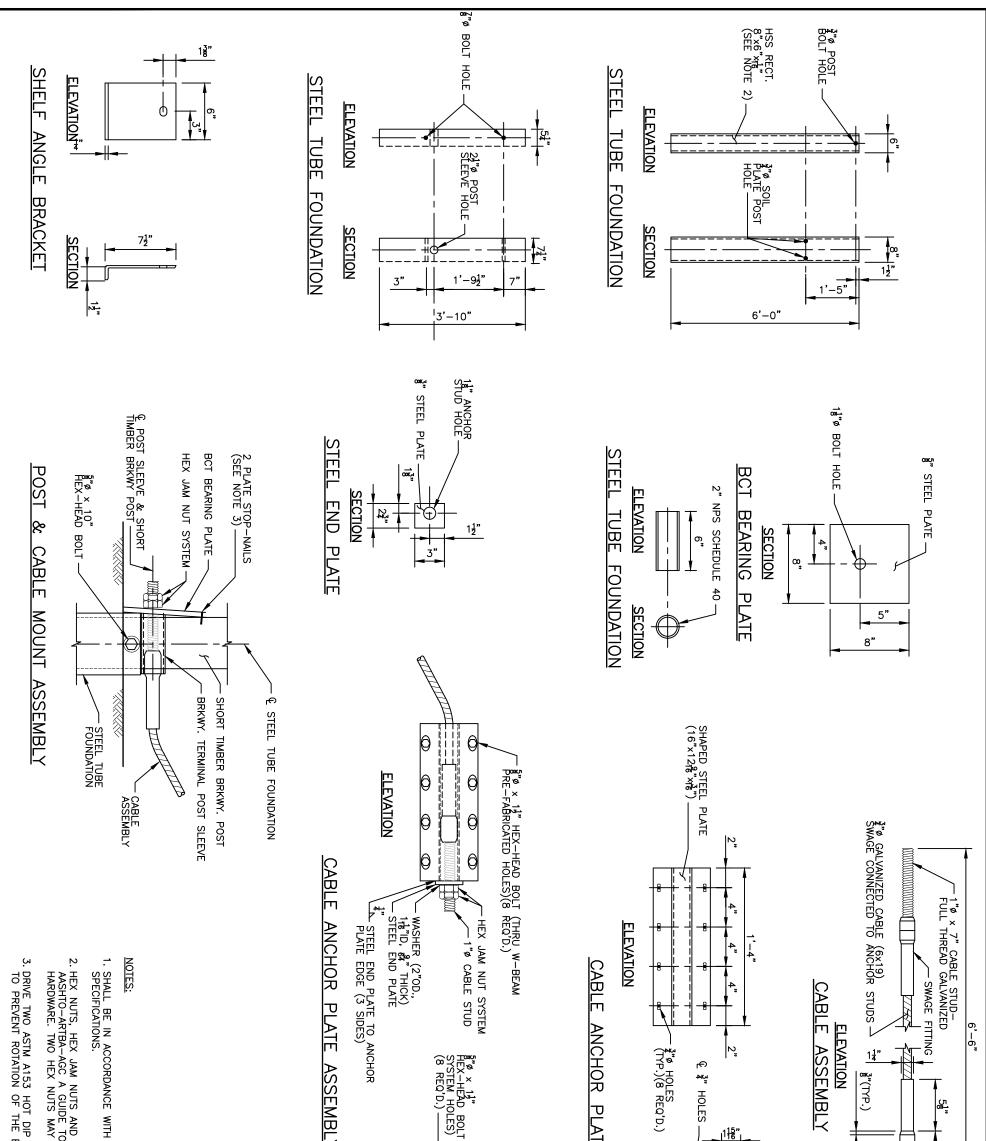
- .____ SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE RI STANDARD SPECIFICATIONS.
- Ņ SHALL BE IN ACCORDANCE WITH SECTION 213 OF THE RI STANDARD SPECIFICATIONS.
- ы. INSTALL GUARDRAIL AT STATION AND OFFSET SHOWN IN THE PLANS. THE END OF THE GUARDRAIL SHOWN IN THE PLANS CORRESPONDS WITH THE BEGIN LENGTH OF NEED POINT FOR THE END TREATMENT (SHOWN AT POST 3 IN THESE STANDARDS, BUT MAY VARY BY MANUFACTURER).
- 4. PROPRIETARY END TREATMENTS MAY VARY IN SIZE AND SHAPE FROM WHAT IS DEPICTED IN THESE STANDARDS. HOWEVER, THE MAXIMUM SLOPES AND MINIMUM OFFSETS DIMENSIONED FROM THE POSTS SHOWN HEREIN SHALL STILL APPLY.
- 'n
- END TREATMENT TEST LEVEL AND TYPE (TANGENT OR FLARED) SHALL BE SPECIFIED IN THE PLANS.
- ი. CONSTRUCT TANGENT AND FLARED END TREATMENTS IN ACCORDANCE WITH THE MANUFACTURER'S UNIQUE DRAWING DETAILS, PROCEDURES, AND SPECIFICATIONS.
- .7 AT THE DISCRETION OF THE ENGINEER, THE FACE OF THE TANGENT END TREATMENT IMPACT HEAD MAY BE OFFSET UP TO 2'-O" FROM THE PROJECTED FACE OF GUARDRAIL TO MINIMIZE NUISANCE HITS. THE OFFSET SHALL OCCUR OVER THE ENTIRE LENGTH OF THE END TREATMENT UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER.
- 10. INSTALL GRADING AS SHOWN HEREIN UNDER SEPARATE PAY ITEMS. 9. END TREATMENT SHALL NOT TERMINATE CURVED W-BEAM SEGMENTS.
 - œ LATERAL OFFSET OF FLARED END TREATMENT SHALL BE DETERMINED BY THE DESIGN I FOLLOWING THE METHODOLOGY FOUND IN THE ROADSIDE DESIGN GUIDE AND SHOULD FAL THE ALLOWABLE TOLERANCES SPECIFIED BY THE MANUFACTURER. LATERAL OFFSET S MEASURED FROM THE EDGE OF TRAVELED WAY TO THE FACE OF THE GUARDRAIL AT POS

		R.I. STANDARD 34.3.0
$(4) \boxed{(3)} \boxed{(2)} (2) \underbrace{(2)}_{(1)} (2) \underbrace{(1)}_{(2)} (2) \underbrace{(1)}_{(1)} (2)$)N	ATMENT 10/21/2022 ISSUE DATE
FACE OF TANGENT END TREATMENT MPACT HEAD (SEE NOTE 7)		END TRE
	DEPARTMENT OF TRA	DRAIL APPROACH
 LATERAL OFFSET OF FLARED END TREATMENT SHALL BE DETERMINED BY THE DESIGN ENGINEER FOLLOWING THE METHODOLOGY FOUND IN THE ROADSIDE DESIGN GUIDE AND SHOULD FALL WITHIN THE ALLOWABLE TOLERANCES SPECIFIED BY THE MANUFACTURER. LATERAL OFFSET SHALL BE MEASURED FROM THE EDGE OF TRAVELED WAY TO THE FACE OF THE GUARDRAIL AT POST #3. END TREATMENT SHALL NOT TERMINATE CURVED W-BEAM SEGMENTS. INSTALL GRADING AS SHOWN HEREIN UNDER SEPARATE PAY ITEMS. 	RHODE ISLAND	BEAM GUARI
11. MAINTAIN 2'-0" (MIN) OFFSET TO FRONT SLOPE BREAK DOWNSTREAM OF MIDSPAN SPLICE LOCATION AT ALL TIMES. IF, DOWNSTREAM OF THE SPLICE, GRADING CONSTRAINTS INHIBIT THIS MINIMUM OFFSET THEN USE DEEP STEEL POSTS AND TRANSITION TO A SLOPE BREAK CONDITION DESIGN PER THE DETAIL IN 400.1.5 UNTIL THE 2'-0" OFFSET CAN BE MET.		
		Robert / Chief engineer transportation
	0.110	DATE
	REVISI	
		NO.

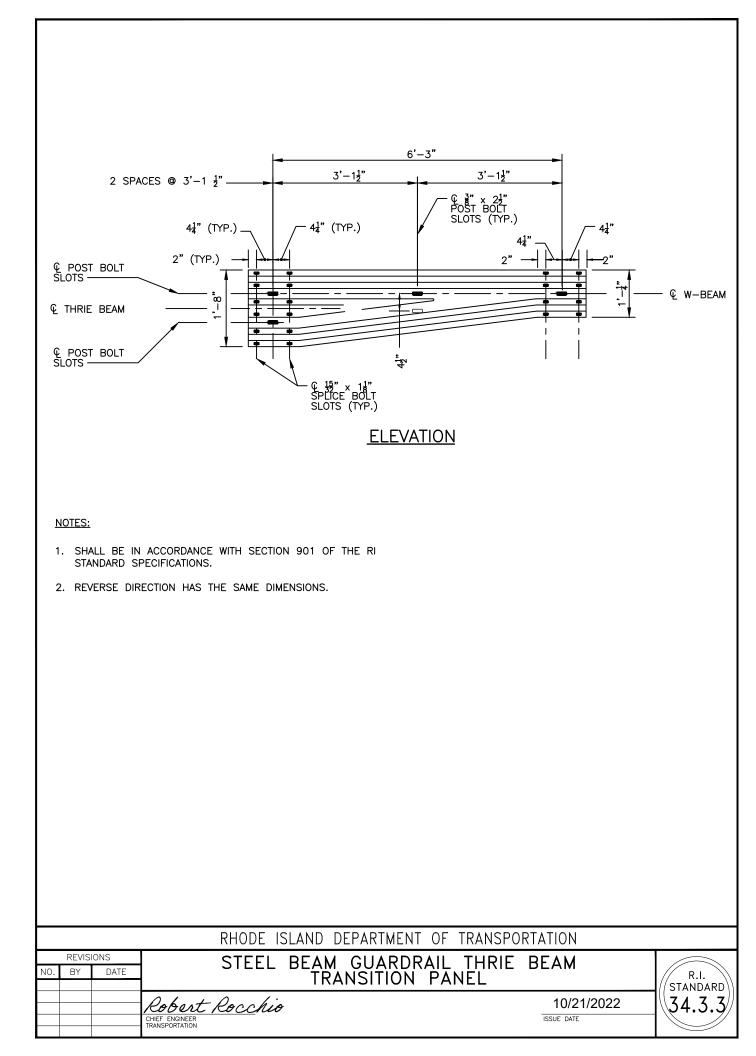


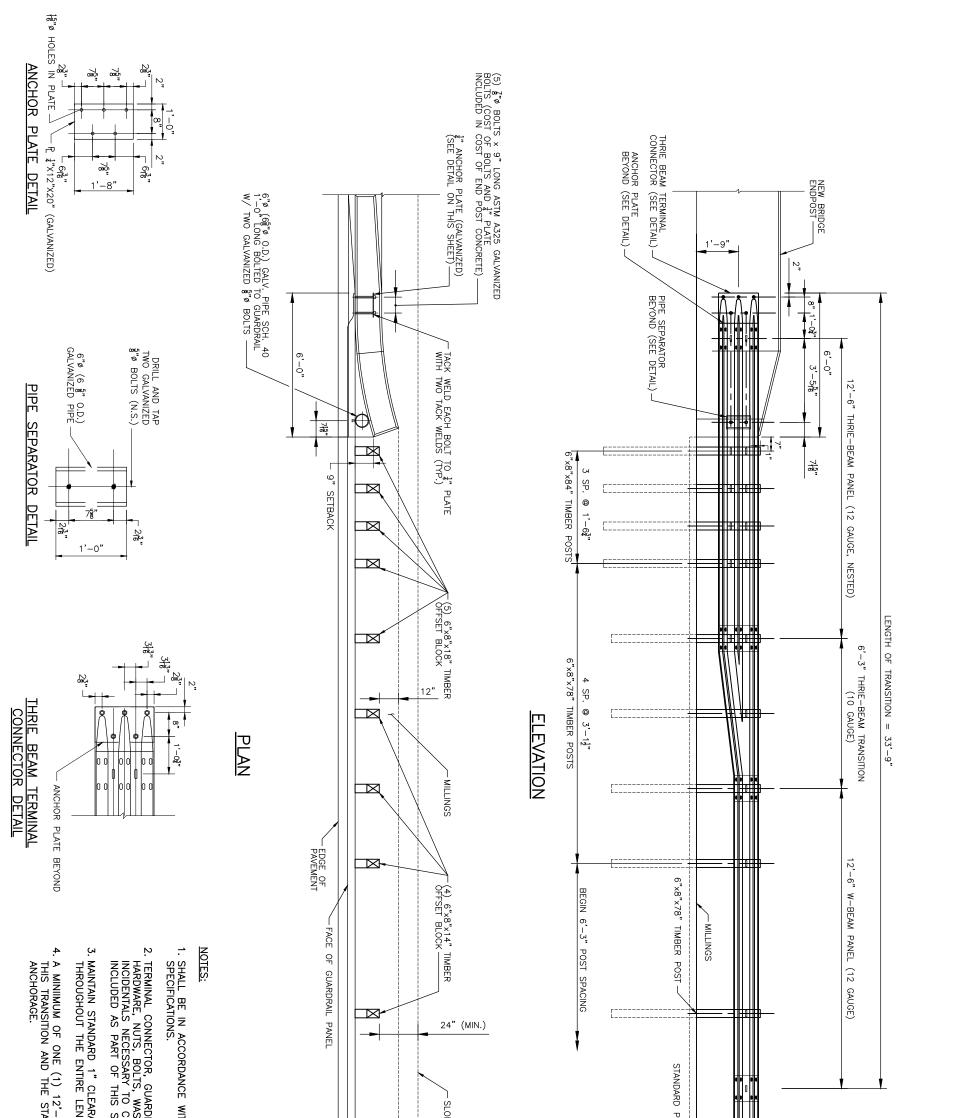


	IG A DUMMY TIMBER POST TO PREVENT RT BREAKAWAY POST.	UIT OVER THE FOLLOWING ME E. BACKFILL, AND SUITABLY	F WITH SECTION 901 OF THE RI STANDARD					OST		
				Rł	HODE ISLAND	DEPARTMENT OF	TRANSPORT	ATION		
NO.	REVISI BY	ONS DATE	STEEL	BEAM	GUARDRAIL	ANCHORAGE	TRAILING	END	SECTION	R.I. STANDARD
			CHIEF ENGINEER TRANSPORTATION	occhio				15	10/21/2022 SSUE DATE	34.3.2

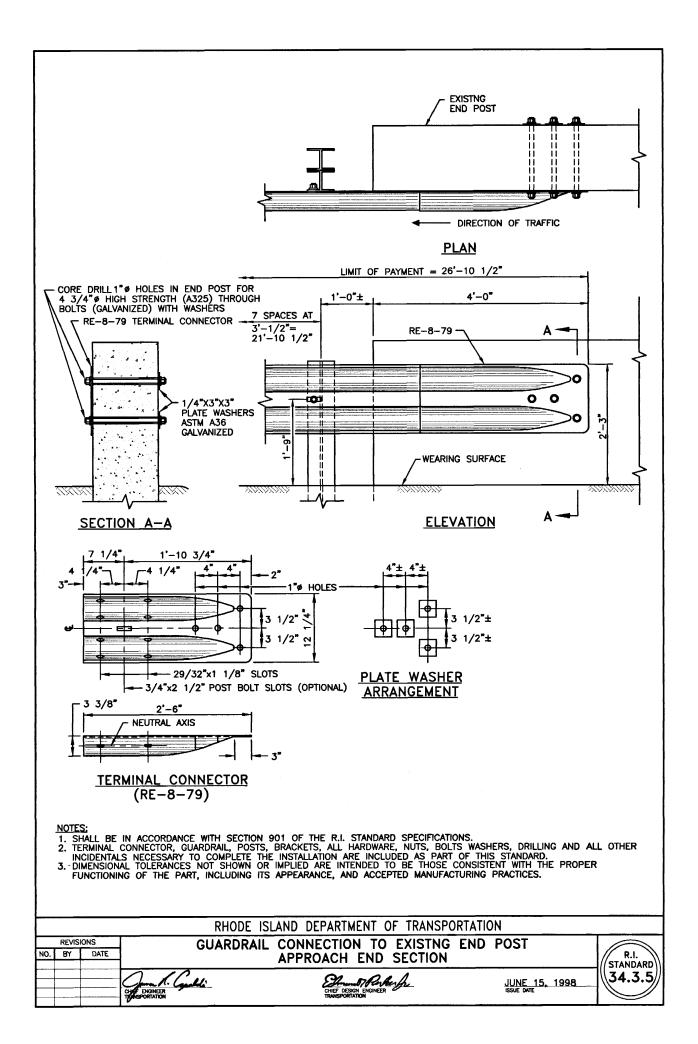


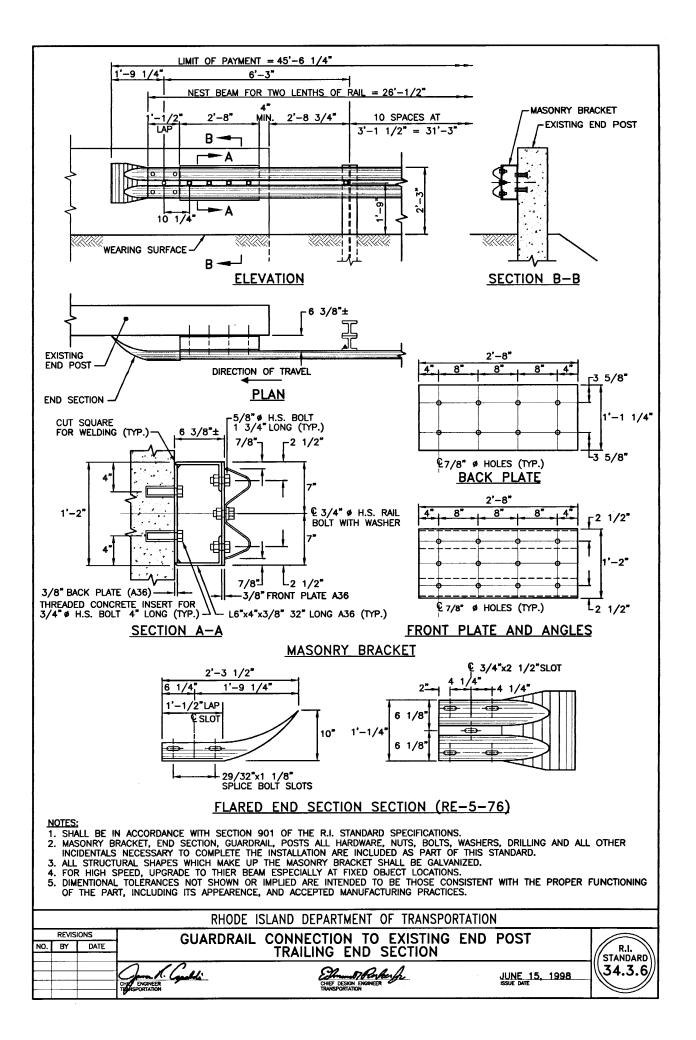
	GALVANIZED STEEL 2½" TYPE BD NAILS BCT BEARING PLATE.	SUP OF THE N	SECTION 001 OF THE RI STANDARD		Γ	CABLE ASSEMBLY & 1 ¹ / ₈ "ø	STEEL END PLATE	ANCHOR PLATE			SECTION		K ⁵ € ³ / ₄ "R		_ <u>116</u>		2 7"	
				RHC)DE ISLA	AND D	DEPAR	TMEN	T OF	TRANS	SPOR	IOITAT	٧					
NO.	REVIS BY	IONS DATE	-	STEEL	BEAM	GUA	ARDR	AIL	ANCH	IORAC	GE I	DETA	ILS			STA	R.I. NDARD	
			CHIEF ENGINEER TRANSPORTATION	cchio									10/ ISSUE D	/21/2022		\\ 34	4.3.2 CONT.]]

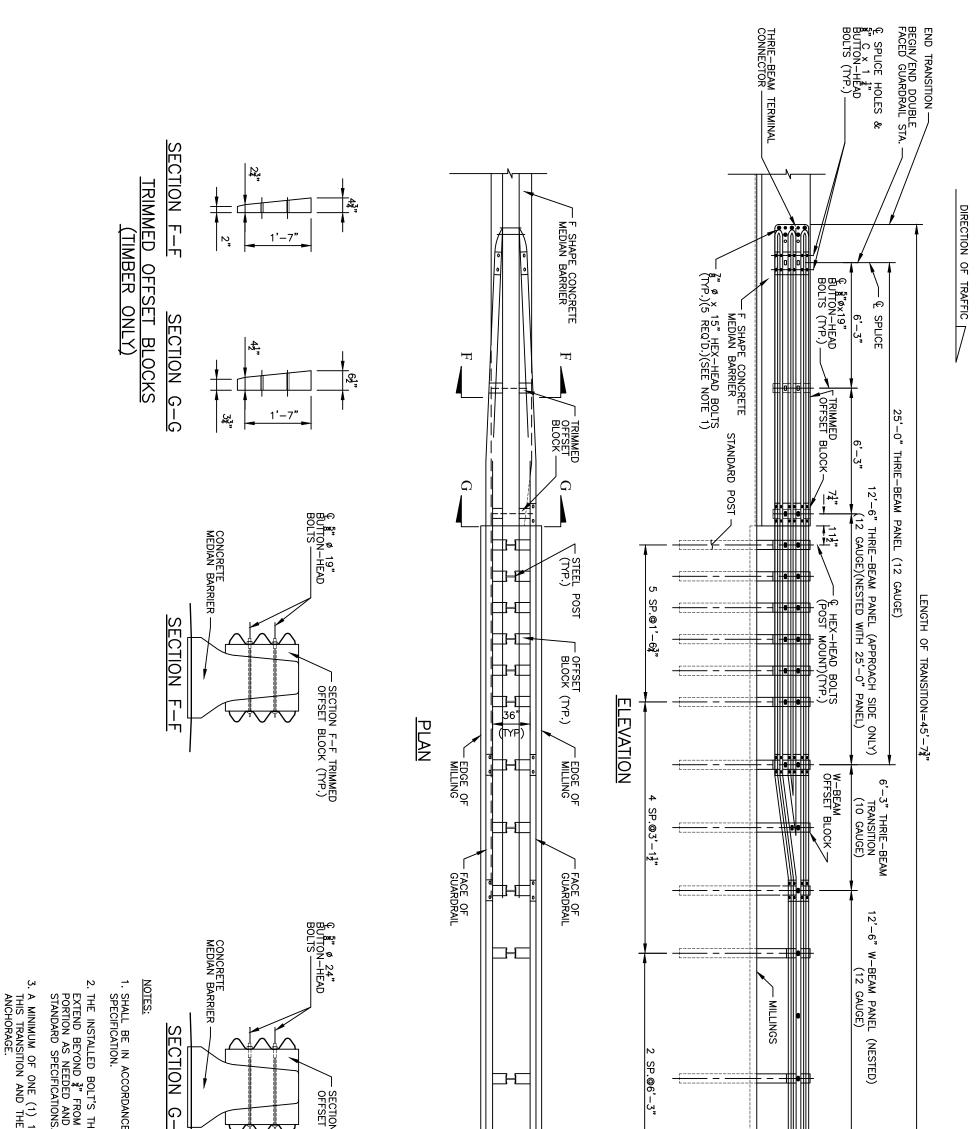




	ARANCE OF POST ABOVE PANEL ENGTH OF TRANSITION. ?'—6" PANEL SHALL BE PLACED BETWEEN START OF ANY END TREATMENT OR	CTION 901 OF TH POSTS, BRACKETS , DRILLING, AND , ETE THE INSTALLA ARD.			LOPE BREAK	[2'-7"±1	
			RHC	DE ISLAND DEF	PARTMENT OF TR	ANSPORTA	TION	
NO.	REVISIONS BY DATE	STEEL	BEAM	GUARDRAIL	CONNECTION	TO NEW	V END POST	R.I. STANDARD
		Robert Rock Chief Engineer TRANSPORTATION	chio				10/21/2022	34.3.4





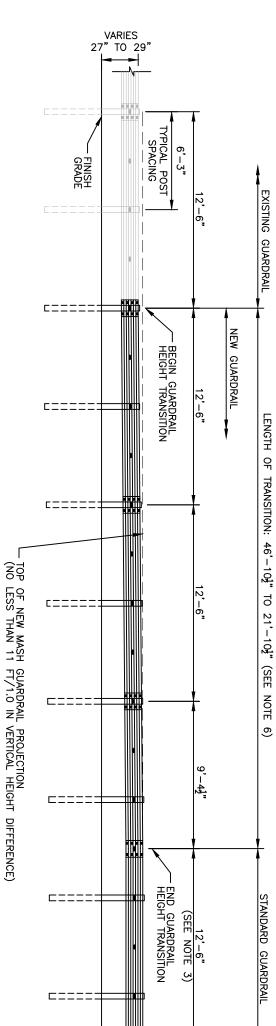


) 12'—6" PANEL SHALL BE PLACED BETWEEN HE START OF ANY END TREATMENT OF	THREADED PORTION IS NOT PERMITTED TO DM THE FACE OF THE NUT; TRIM THE THREADED ND GALVANIZE IN ACCORDANCE WITH THE NS.	VCE WITH SECTION 901 OF THE RI STANDARD			ION G-G TRIMMED	_				/		STANDARD GUARDRAIL	
					RHOD	E ISLAN	D DEP	ARTMEN	IT OF TR	RANSF	PORTATIO	N		
NC	-	SIONS DATE		STEEL	BEAM	GUAR	DRAIL	TRAN	SITION	ТО	RIGID	BARRIER		R.I. STANDARD
			CHIFF F	NGINEER DRTATION	hio							10/21/2022 ISSUE DATE		34.3.7

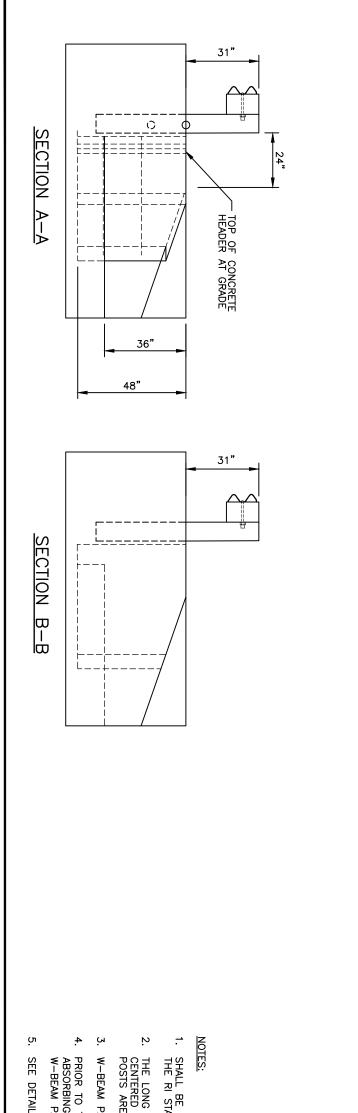
6. IF THE HEIGHT OF THE EXISTING GUARDRAIL THE LENGTH OF THE TRANSITION SHALL BE ACCORDINGLY. THE GUARDRAIL TRANSITION L BE LESS THAN 11 FT/1.0 IN OF HEIGHT DI

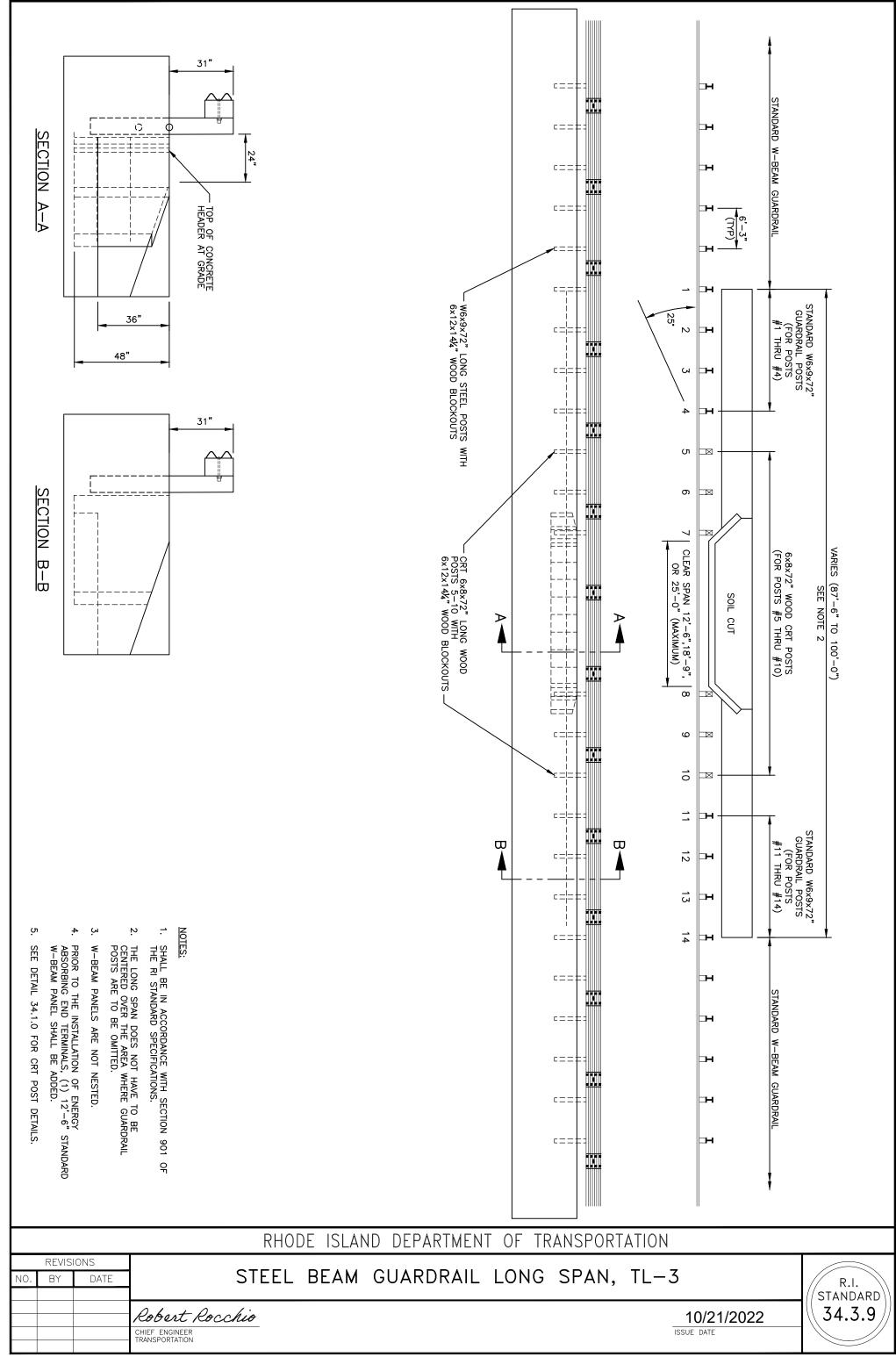
- 5. ALL NEW OFFSET BLOCKS SHALL BE COMP INDICATED ON THE PLANS.
- 4. ALL NEW POSTS SHALL BE STEEL AND 72" OTHERWISE INDICATED ON THE PLANS.
- 3. A MINIMUM OF ONE (1) 12'-6" PANEL SHALL THIS TRANSITION AND THE START OF ANY END ANCHORAGE.
 - 2. MAINTAIN STANDARD 1" CLEARANCE OF POST THROUGHOUT THE ENTIRE LENGTH OF TRANS
 - 1. SHALL BE IN ACCORDANCE WITH SECTION 9 SPECIFICATIONS.
- NOTES:

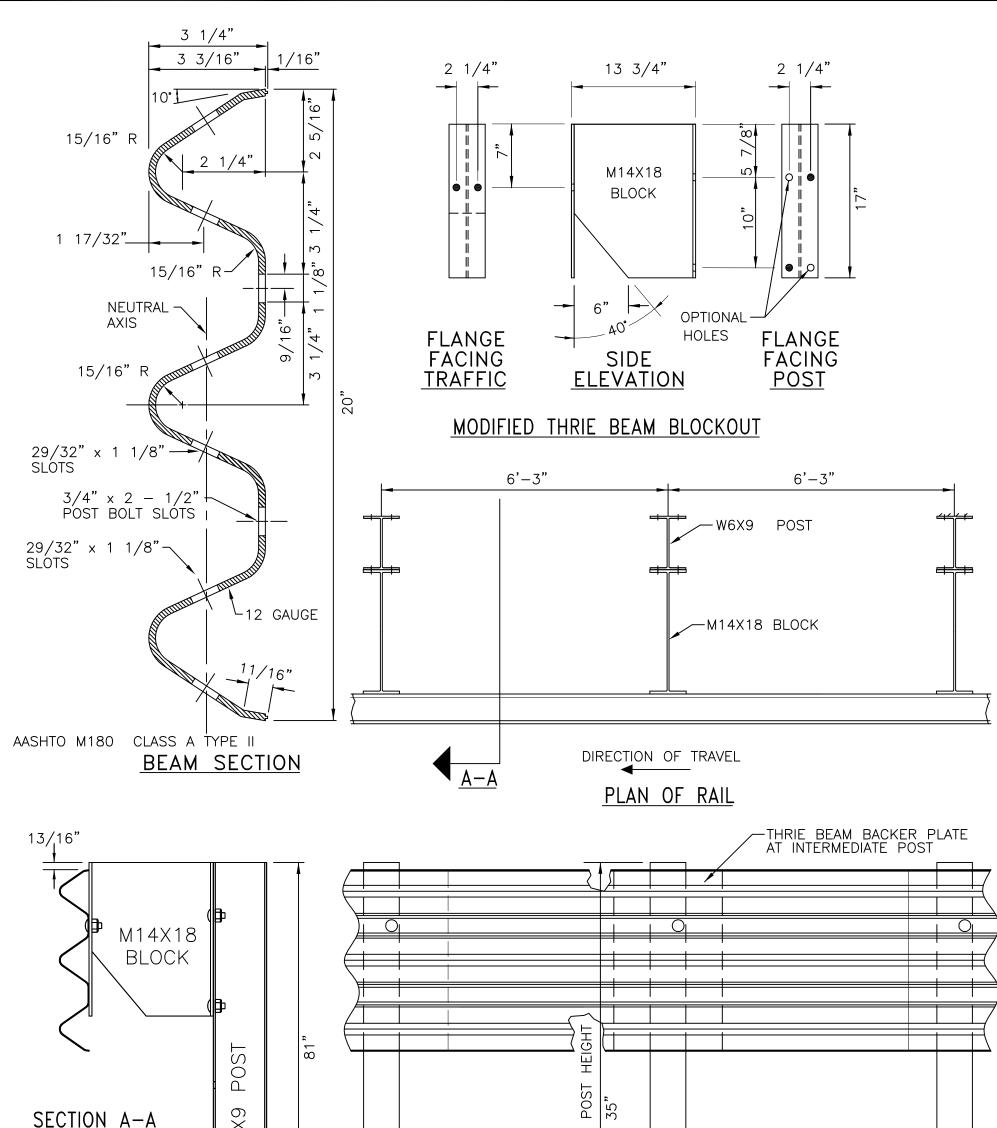
GUARDRAIL HEIGHT TRANSITION



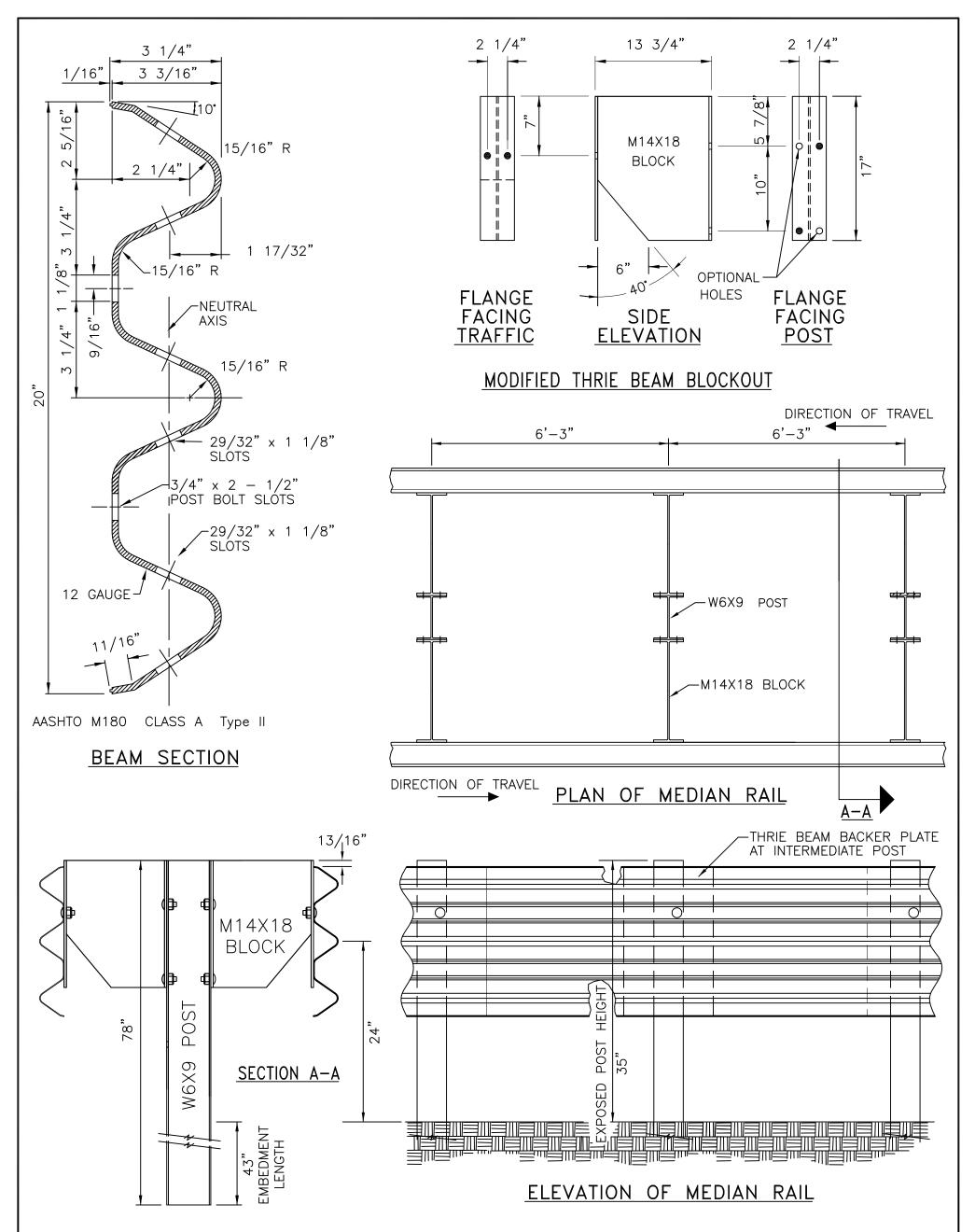
		L IS LESS THAN 27", E INCREASED LENGTH RATE SHALL NOT DIFFERENCE.	OSITE UNLESS OTHERWISE	" IN LENGTH UNLESS	IALL BE PLACED BETWEEN END TREATMENT OR	ST ABOVE PANEL VSITION.	901 OF THE RI STANDARD						31"	BEGIN END TERMINAL OR ANCHORAGE (IF APPLICABLE)	<u>+</u>	ŧ				
							RHODE	E ISLA	١NE	d de	[PAR	TMEN	f OF	TRAN	SPORT	TATION				
NO.	REVISIC BY	DATE		M	ASH	Gl	JARD	RAIL	Т	RAN	ISIT	ION	ТО	EXIS	TING	GUAF	RDRAI	L		R.I. NDARD
			CHIEF EI TRANSPO		Rocc.	hio											10/21/ ISSUE DATE	2022		.3.8







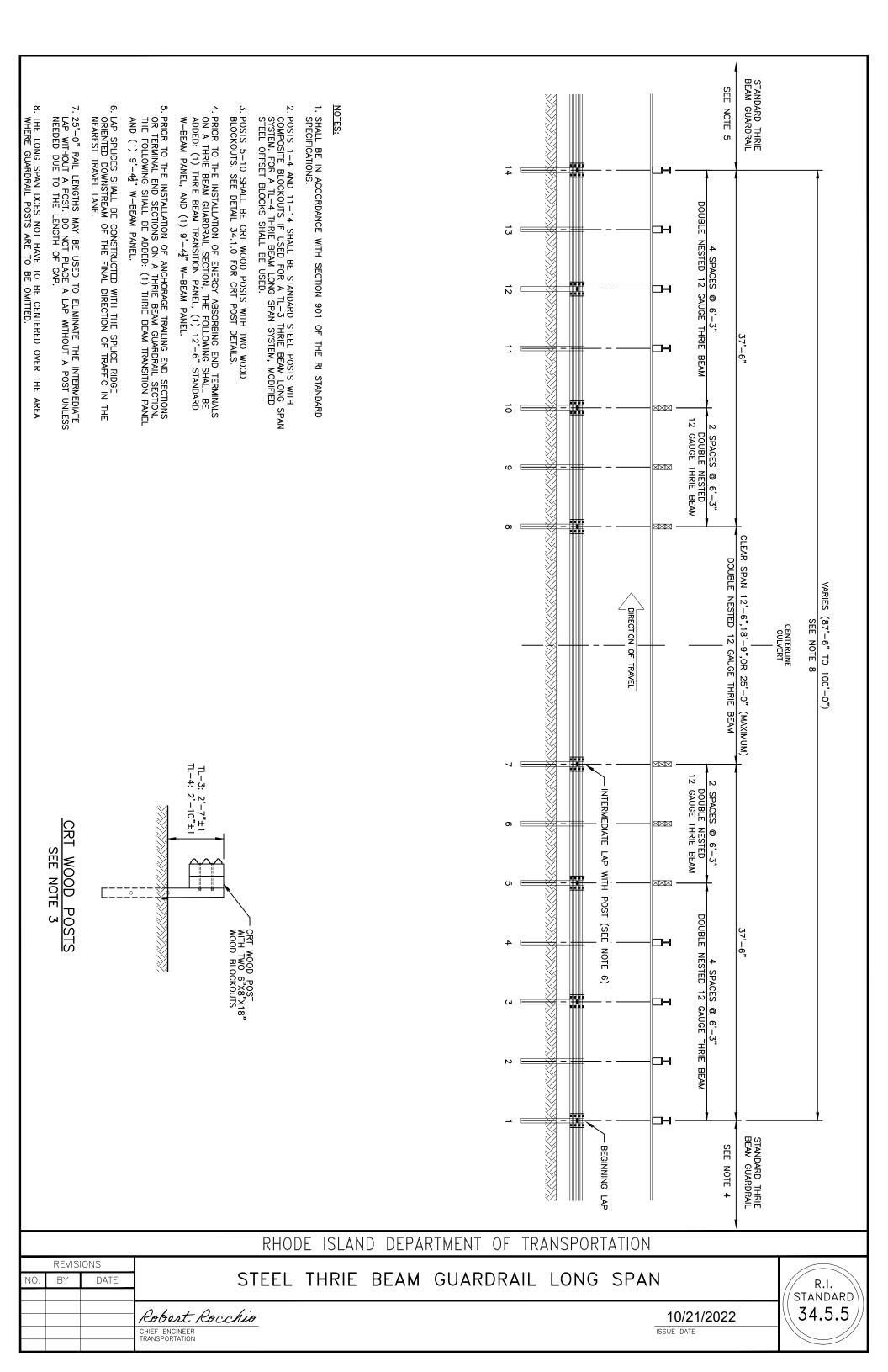
			ELEVATION OF RAIL
	2. PC	HALL BE DST TO E	ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS. FABRICATED FROM W6X9 BY 81" LONG STEEL SECTIONS. OCKOUT TO BE FABRICATED FROM M14X18 BY 17" LONG STEEL SECTIONS.
			RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO.	REVIS BY	IONS DATE	STEEL THRIE BEAM GUARDRAIL SINGLE FACE
			MAY 1, 2009 Insportation Inter engineer transportation MAY 1, 2009 Issue date



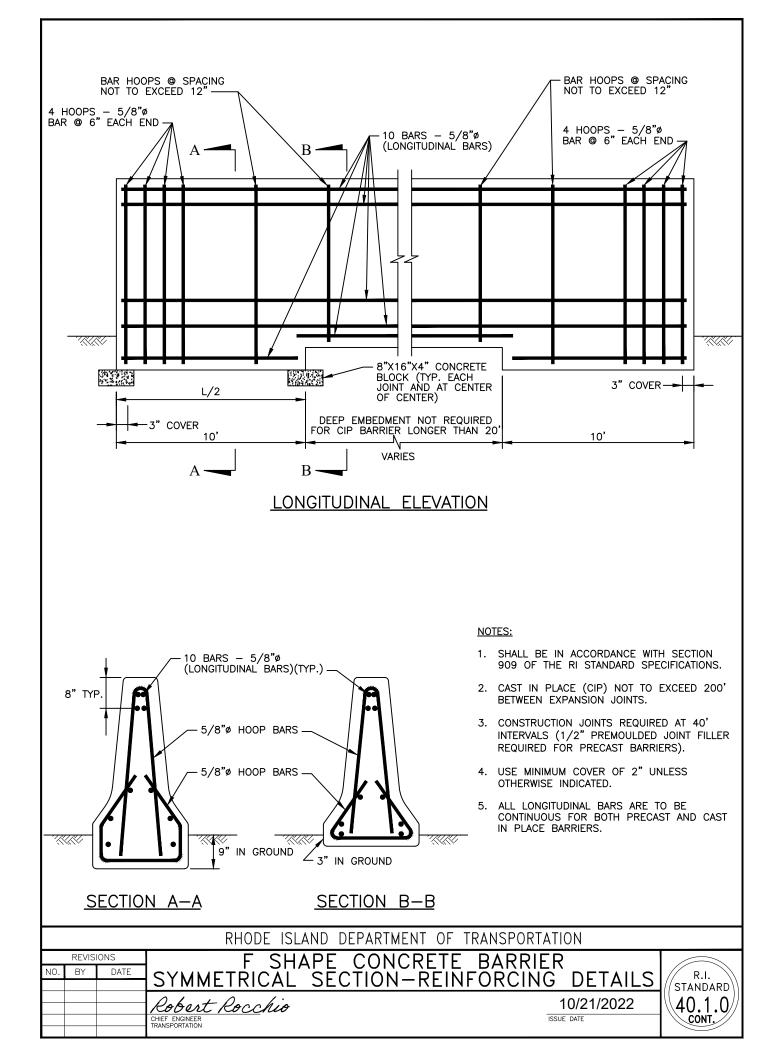
1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS. 2. POST TO BE FABRICATED FROM W6X9 BY 78" LONG STEEL SECTIONS.

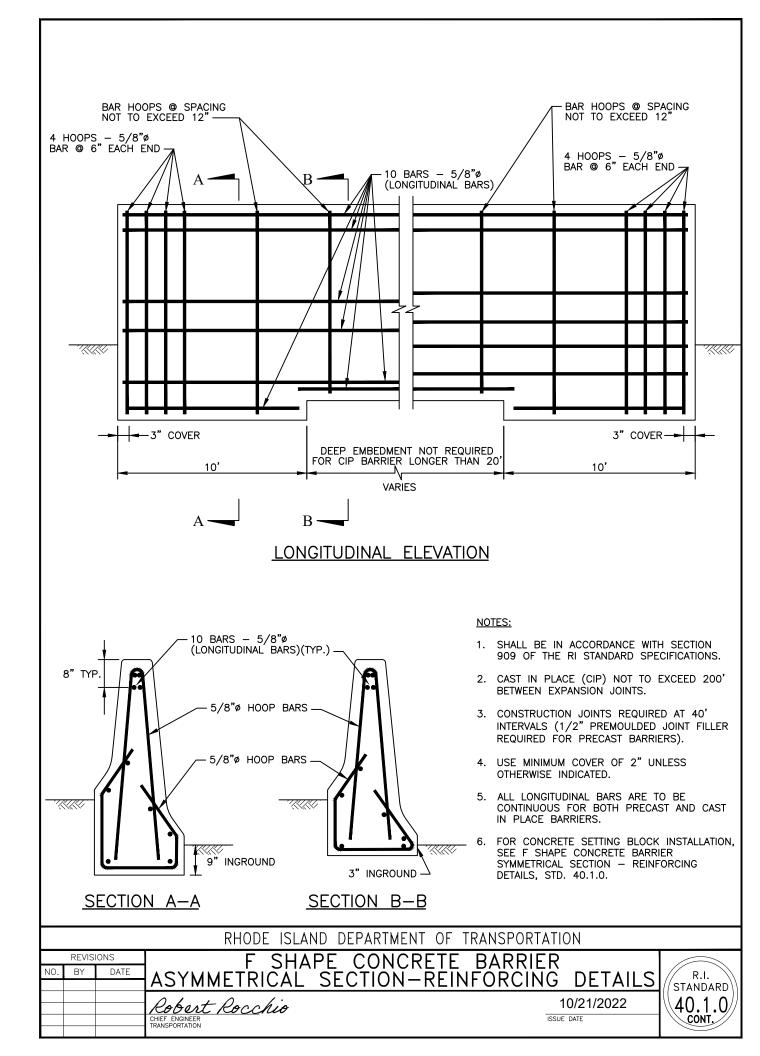
3. MODIFIED BLOCKOUT TO BE FABRICATED FROM M14X18 BY 17" LONG STEEL SECTIONS.

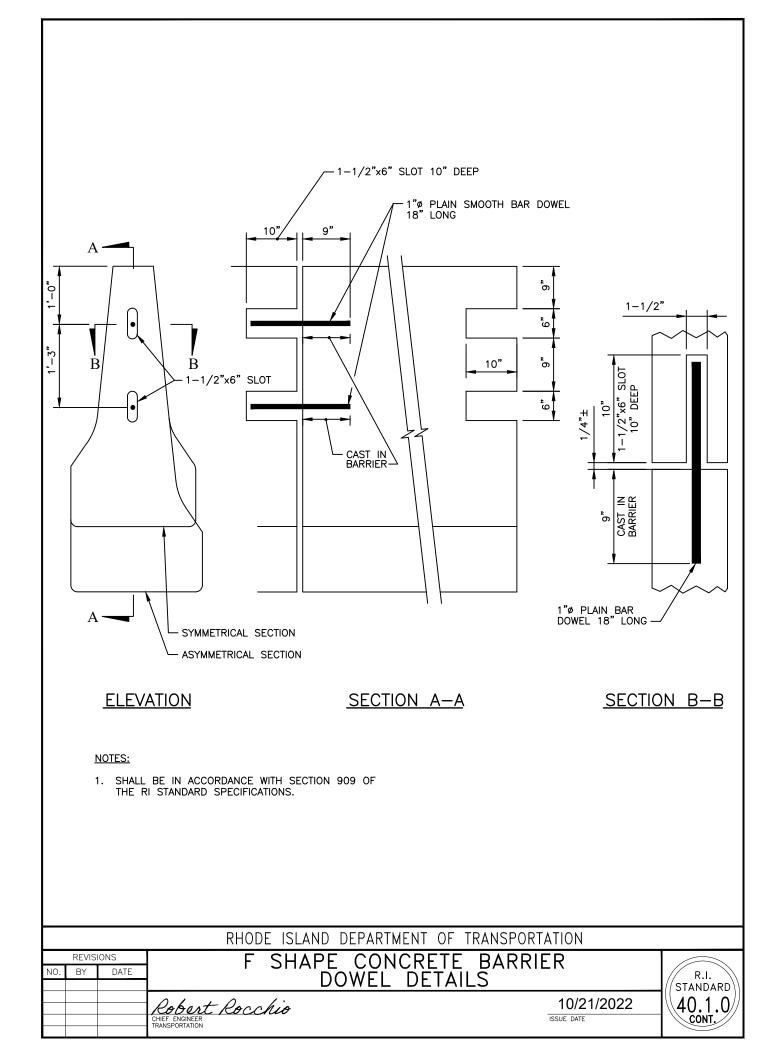
	RHODE ISLAND DEPARTMENT OF TRANSPORTATION											
NO	REVIS BY	DATE	STEE	THRIE BEAM GUARDRAIL DOUBLE	FACE	R.I.						
			Kazz Fanhauzz CHIEF ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	MAY 1, 2009 issue date	STANDARD						

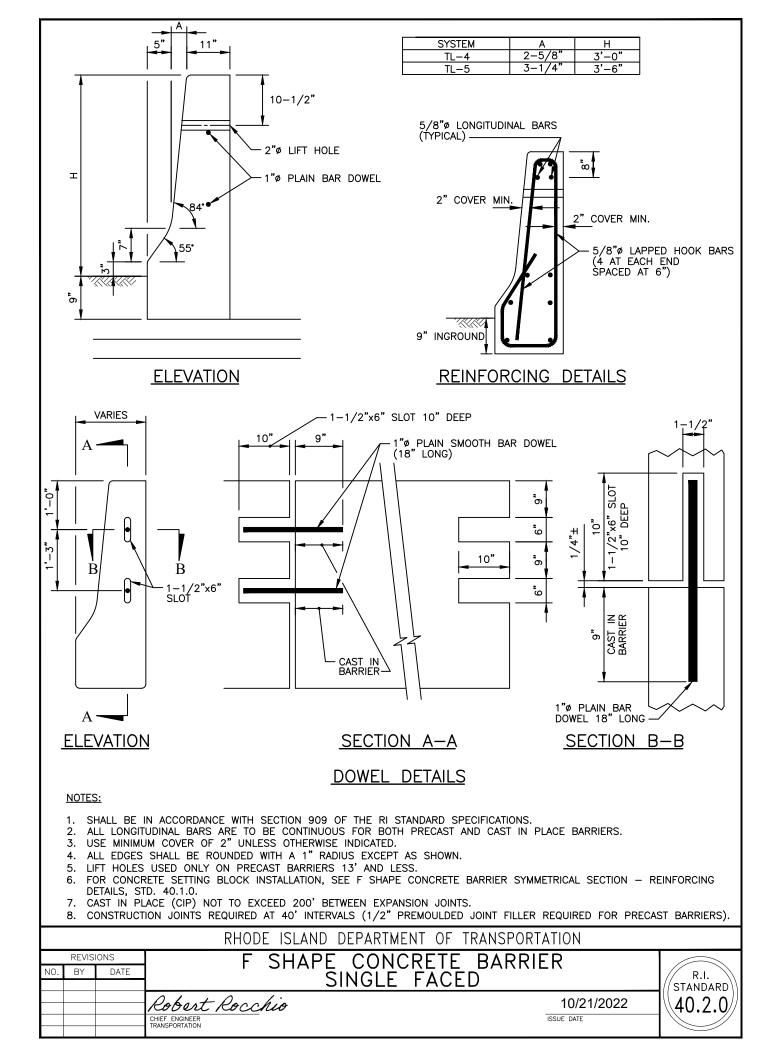


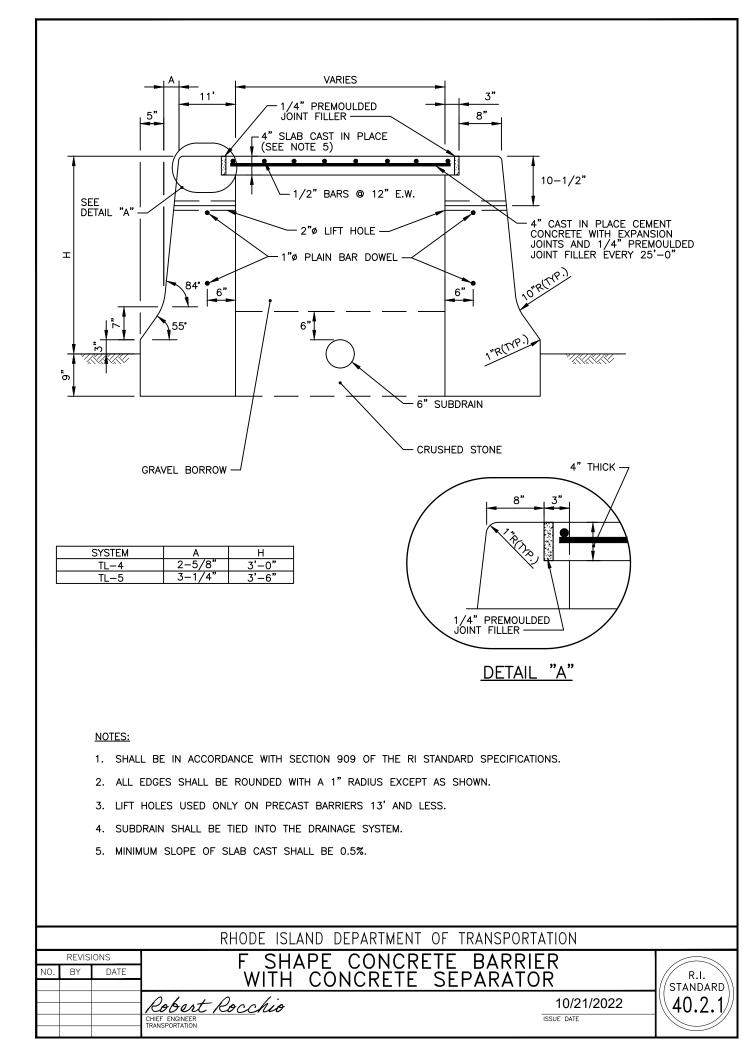
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SYMMETRICAL SECTION ASYMMETRICAL SECTION
$\frac{1}{2} \stackrel{\circ}{}_{0} \stackrel{\vee}{}_{0} \stackrel$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
NOTES: 1. SHALL BE IN ACCORDANCE WITH SECTION 909 OF THE RI STANDARD SPECIFICATIONS. 2. ALL EDGES SHALL BE ROUNDED WITH A 1" RADIUS EXCEPT AS SHOWN. 3. LIFT HOLES USED ONLY ON PRECAST BARRIERS 13' AND LESS. * VARY "A1" RELATIVE TO "H1" WHILE MAINTAINING 55' AND 84' BARRIER ANGLES. A1=4-3/4" MAX., H1=4'-7" MAX.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO. BY DATE F SHAPE CONCRETE BARKIER
Robert Rocchio 10/21/2022 CHIEF ENGINEER ISSUE DATE

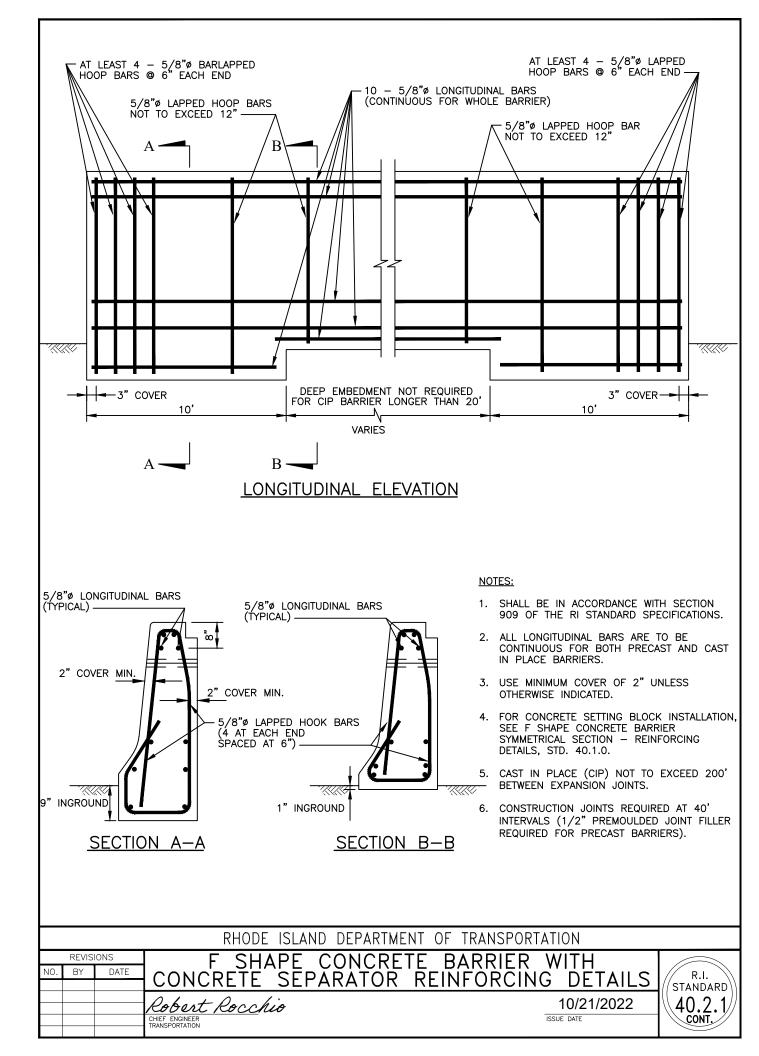


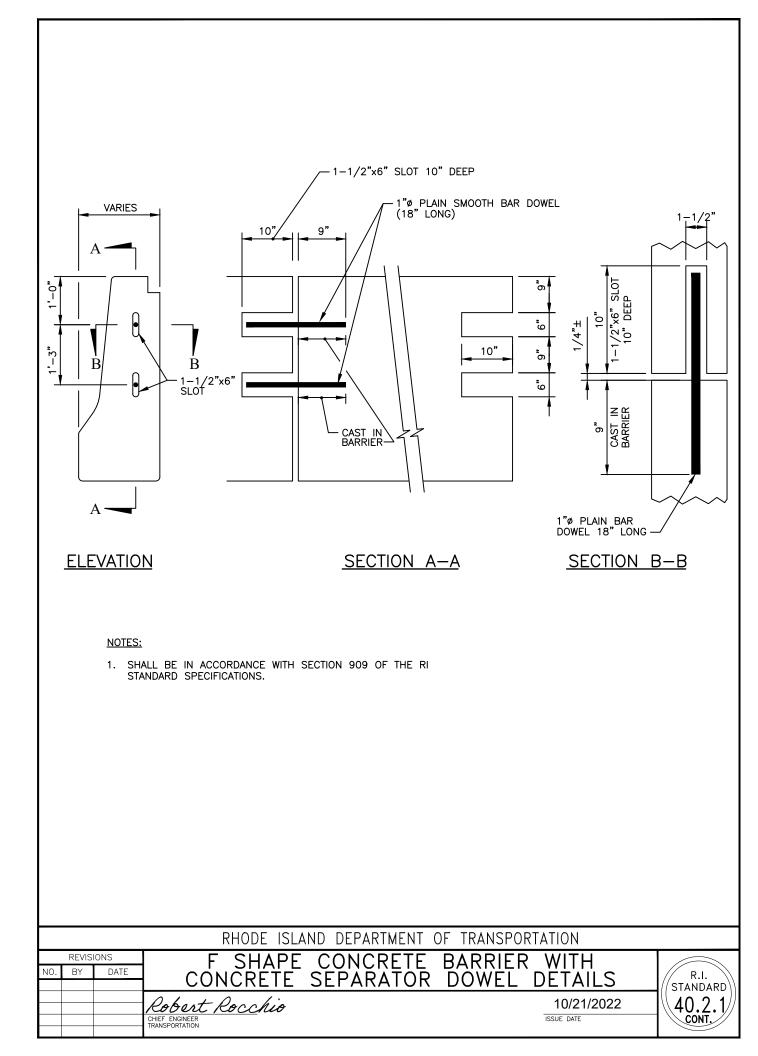


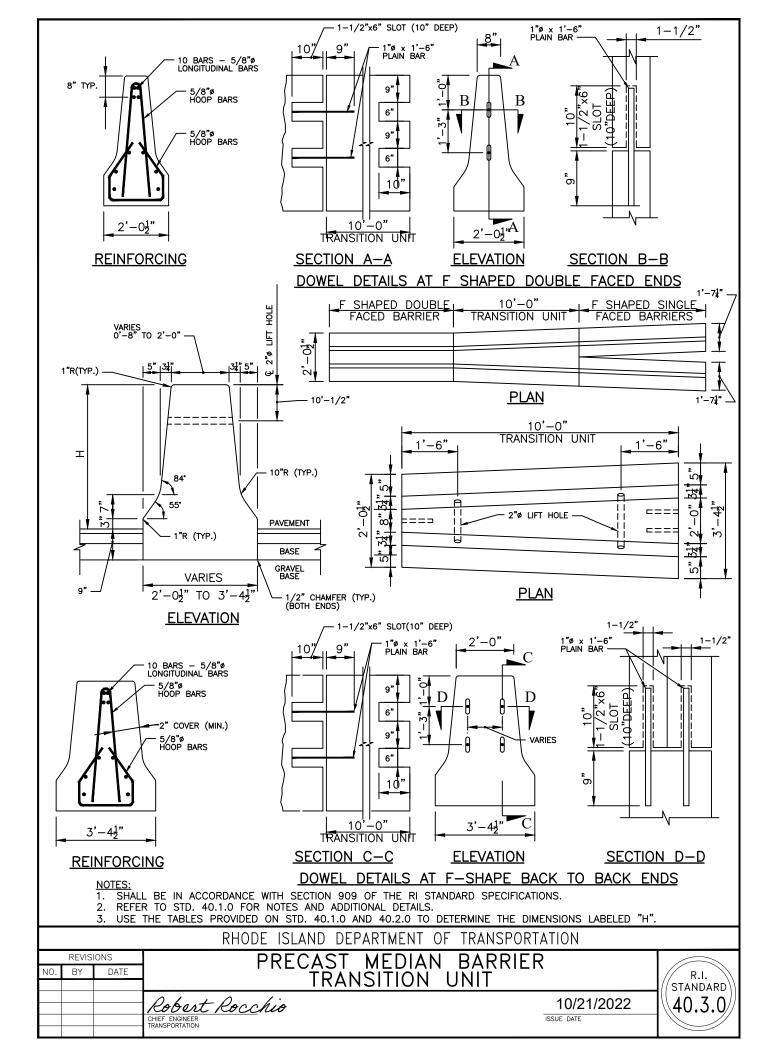


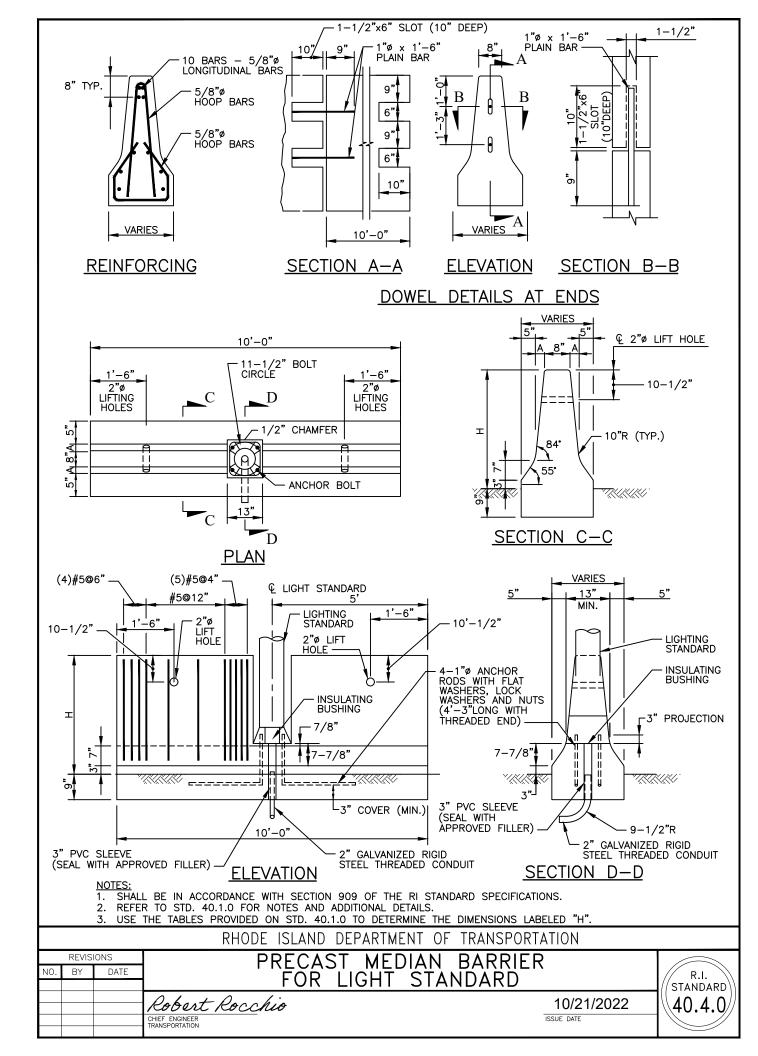


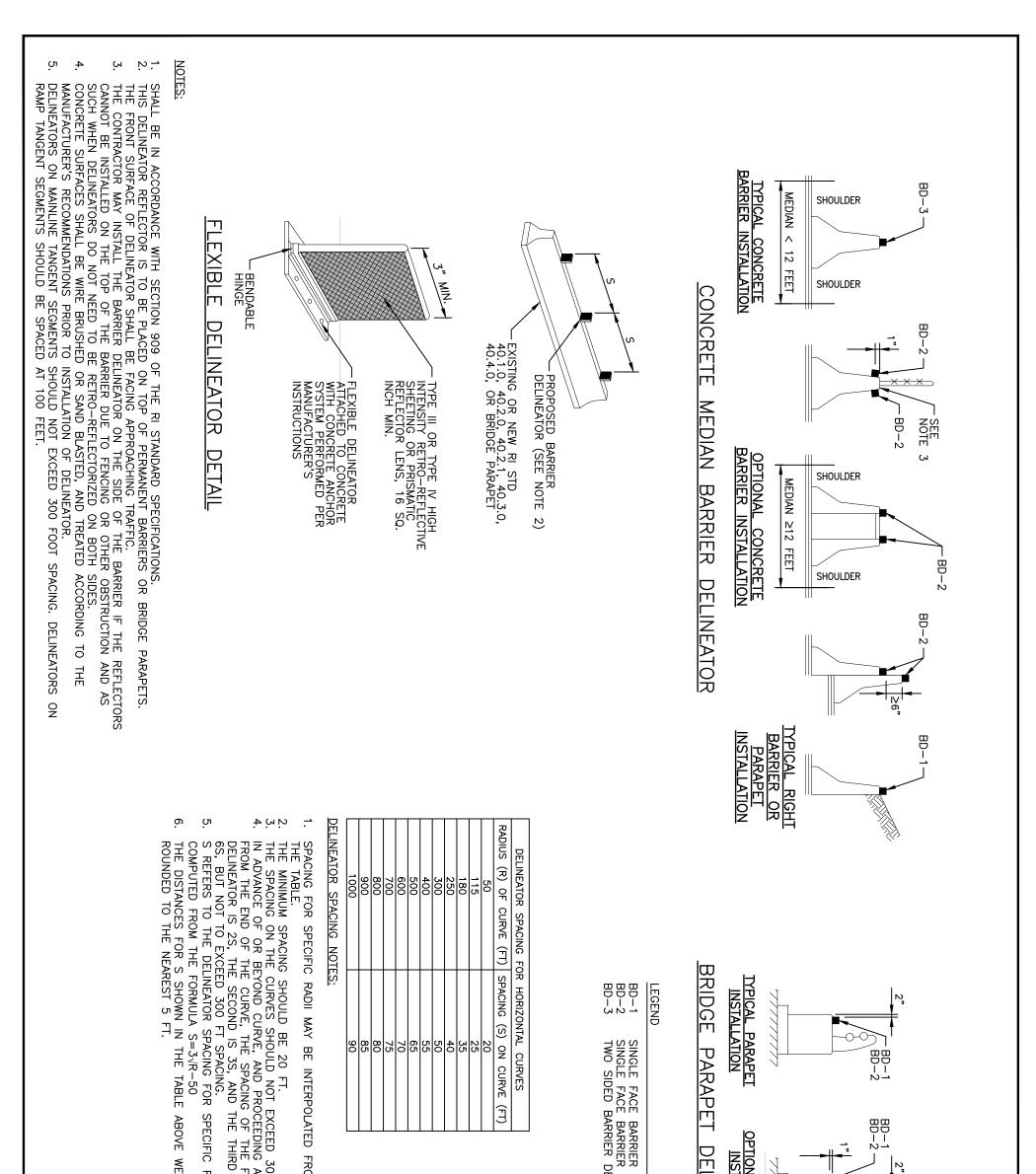




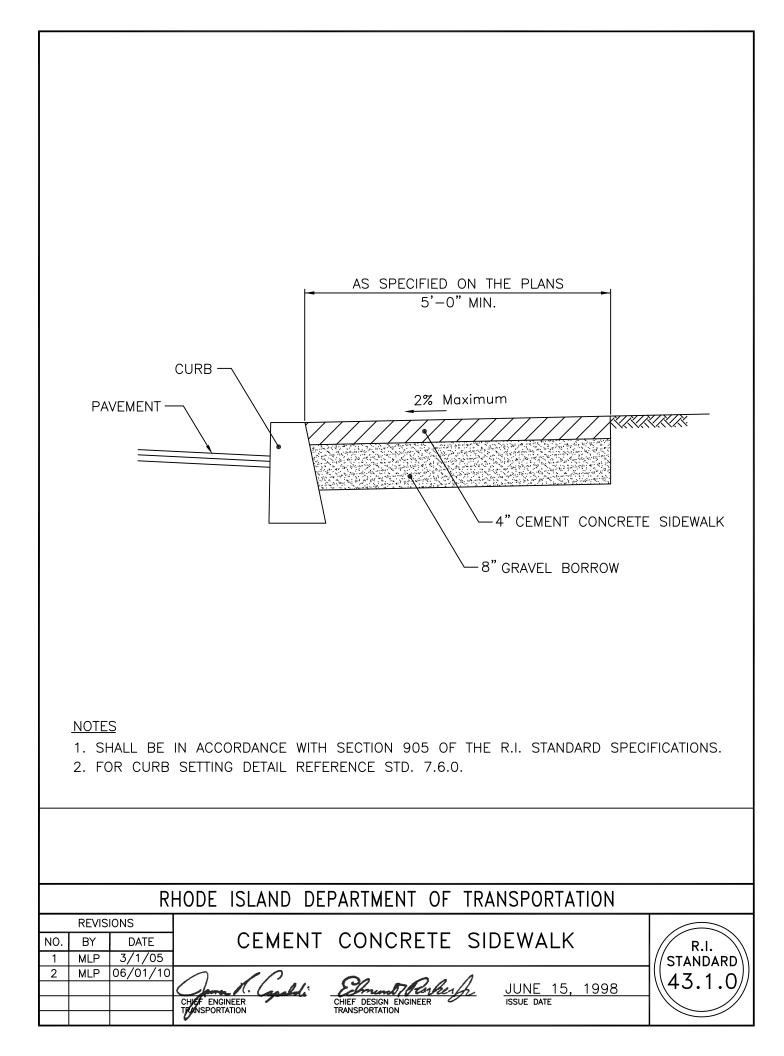


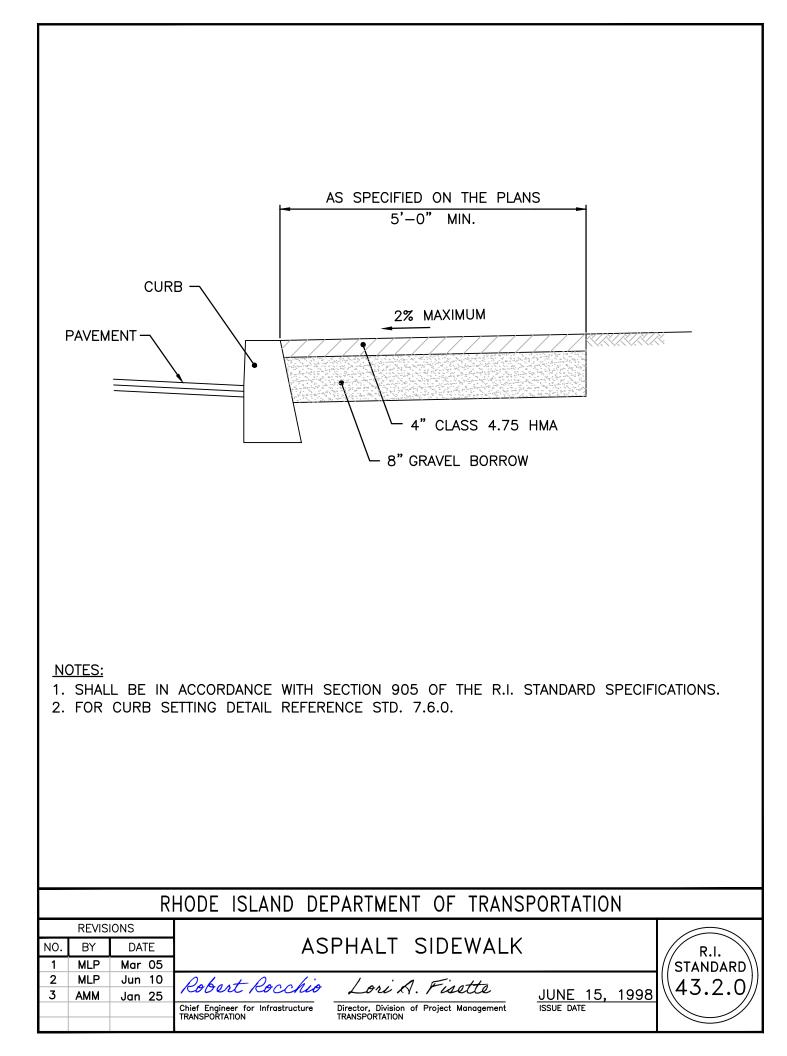


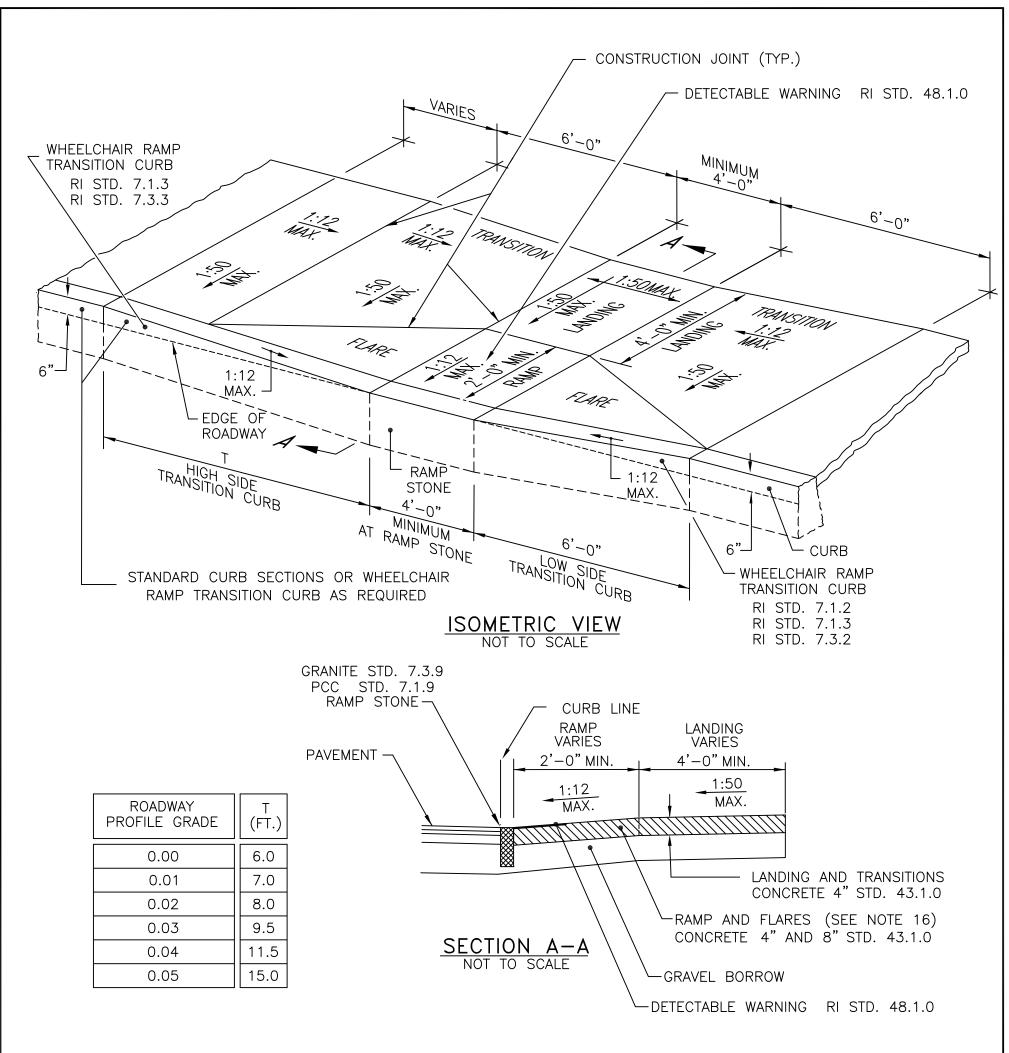




		9 300 FT. 16 AWAY 16 FIRST 10 RADII 10 RADII	FROM		IER DELINEATOR-WHITE IER DELINEATOR-YELLOW R DELINEATOR-YELLOW	TIONAL PARAPET INSTALLATION DELINEATOR	NOTE 3	2"
			RHODE ISLAND	DEPARTMENT	OF TRANSI	PORTATION		
REVI NO. BY	SIONS DATE		BARRIER	MOUNTED	DELINEAT	OR		R.I. STANDARD
		Robert Rocchio CHIEF ENGINEER TRANSPORTATION	-				10/21/2022	40.5.0

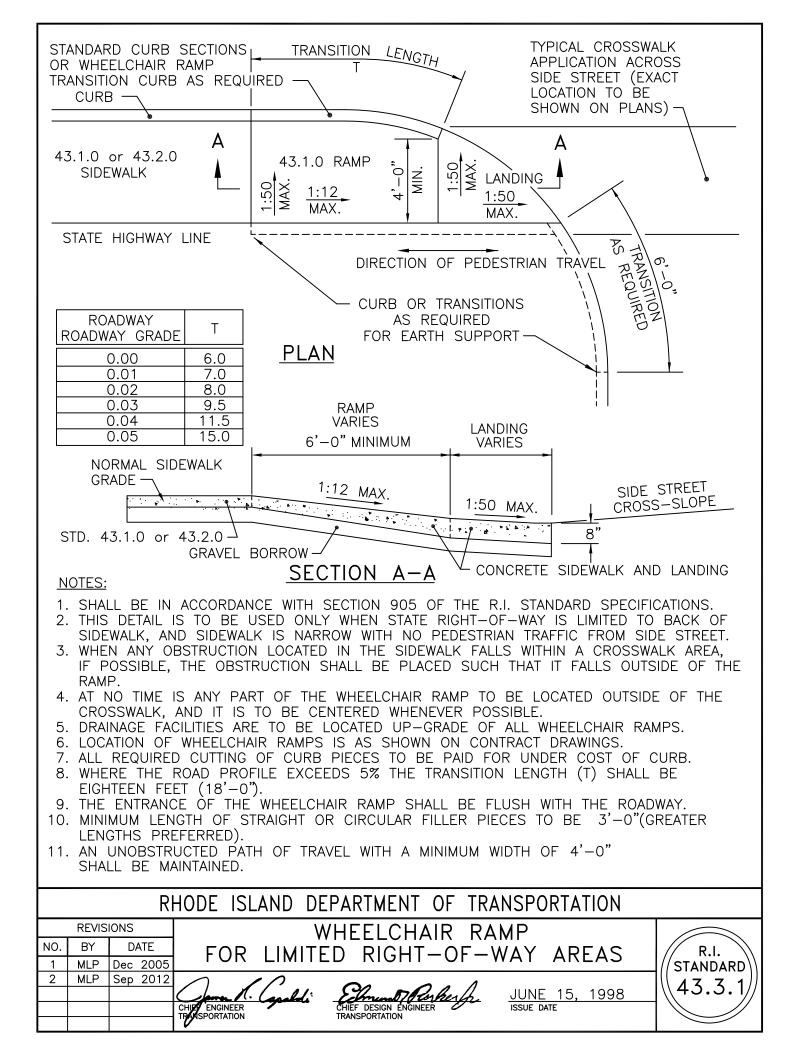


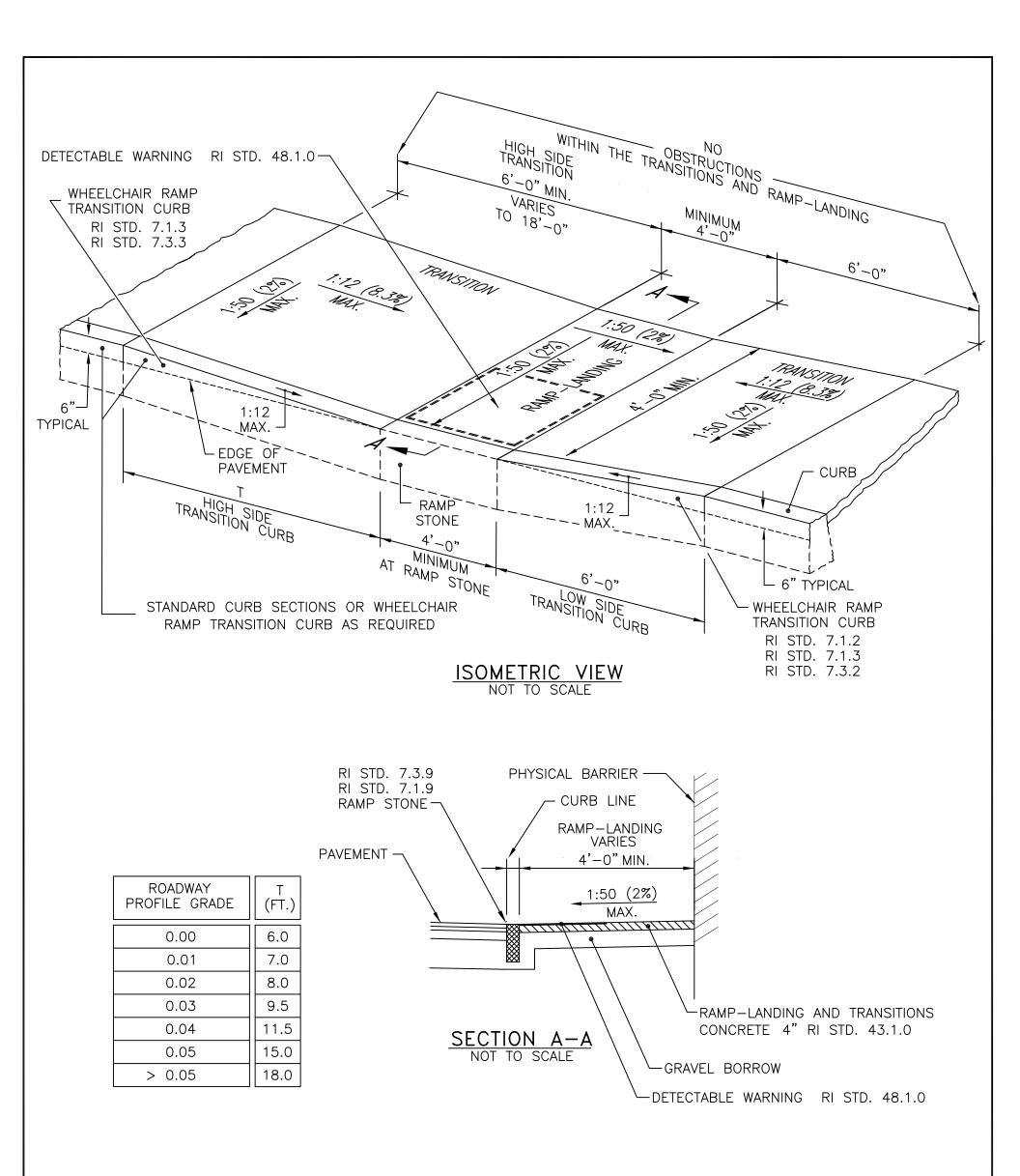




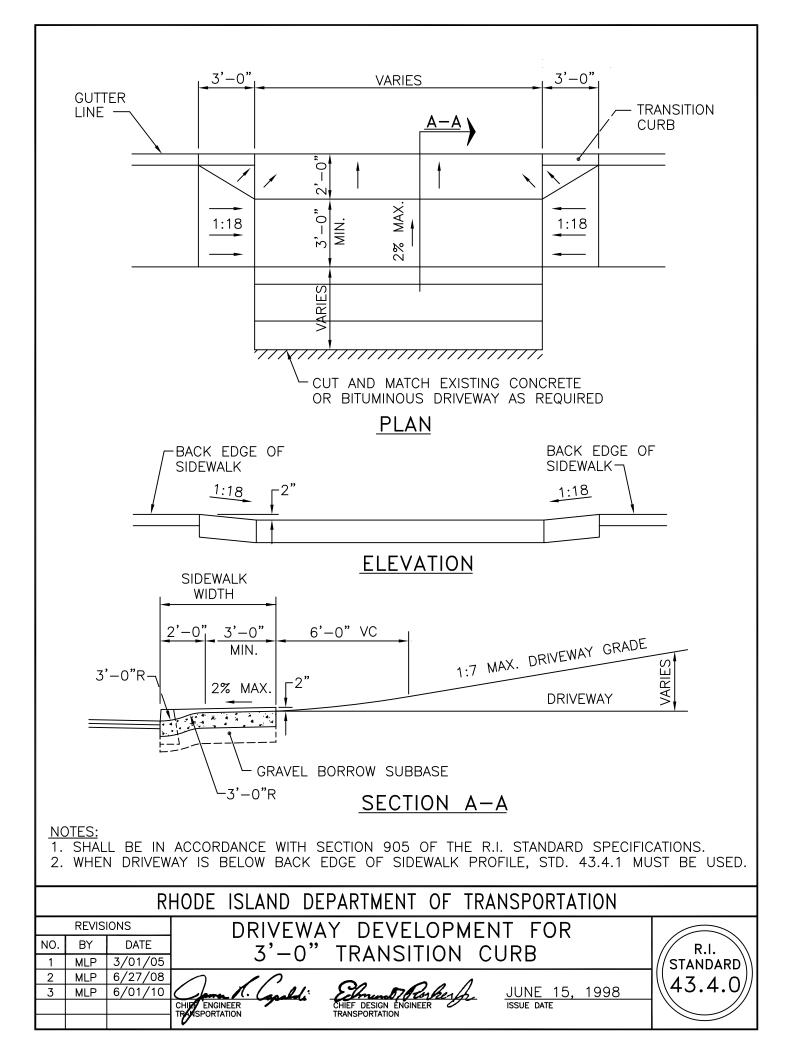
- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
- 2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
- 3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE

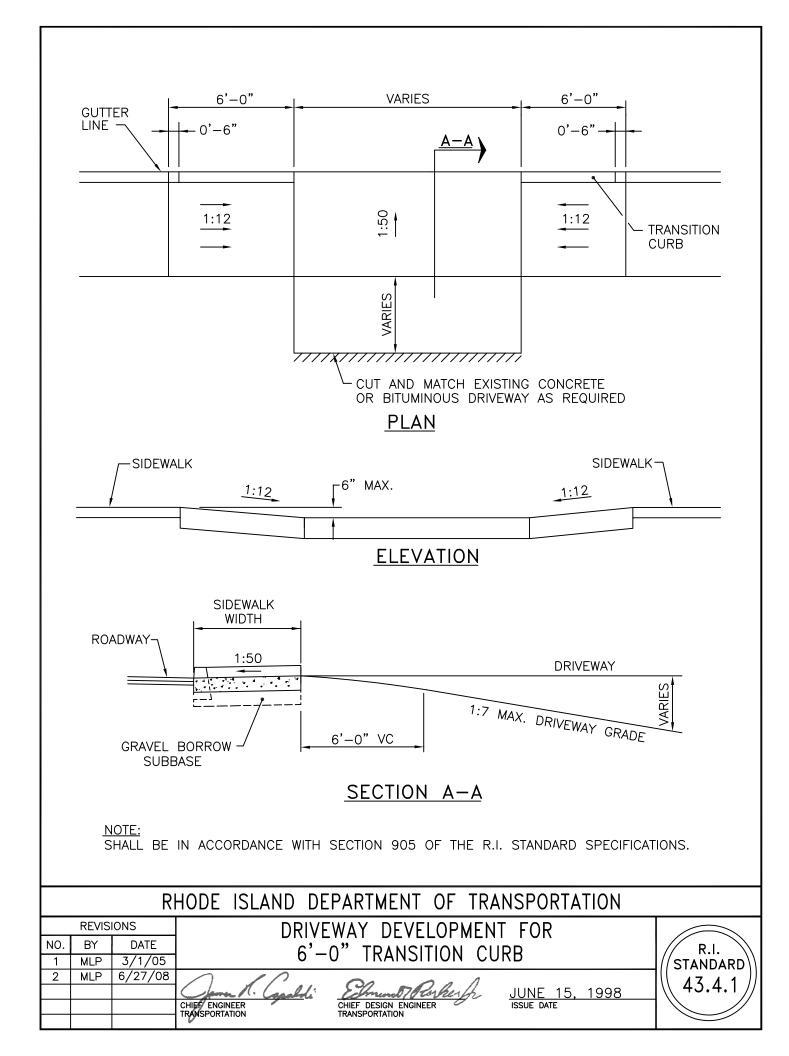
			VHENEVER POSSIBLE.									
	4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.											
	5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.											
	6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA. 7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-O" SHALL BE MAINTAINED.											
	8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE											
			BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.									
9			ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").									
			, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.									
			CE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.									
	Z. THE	L WHEELO	CHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.									
			NGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'–0" (GREATER LENGTHS PREFERRED). ED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.									
			WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS									
			E DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.									
			RHODE ISLAND DEPARTMENT OF TRANSPORTATION									
	REVIS	IONS										
NO.	BY	DATE	WHEELCHAIR RAMP									
1		Oct 2005										
2	MLP	Jun 2003										
3	MLP	Sep 2012	June 15, 1998 (43.3.0)									
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE									

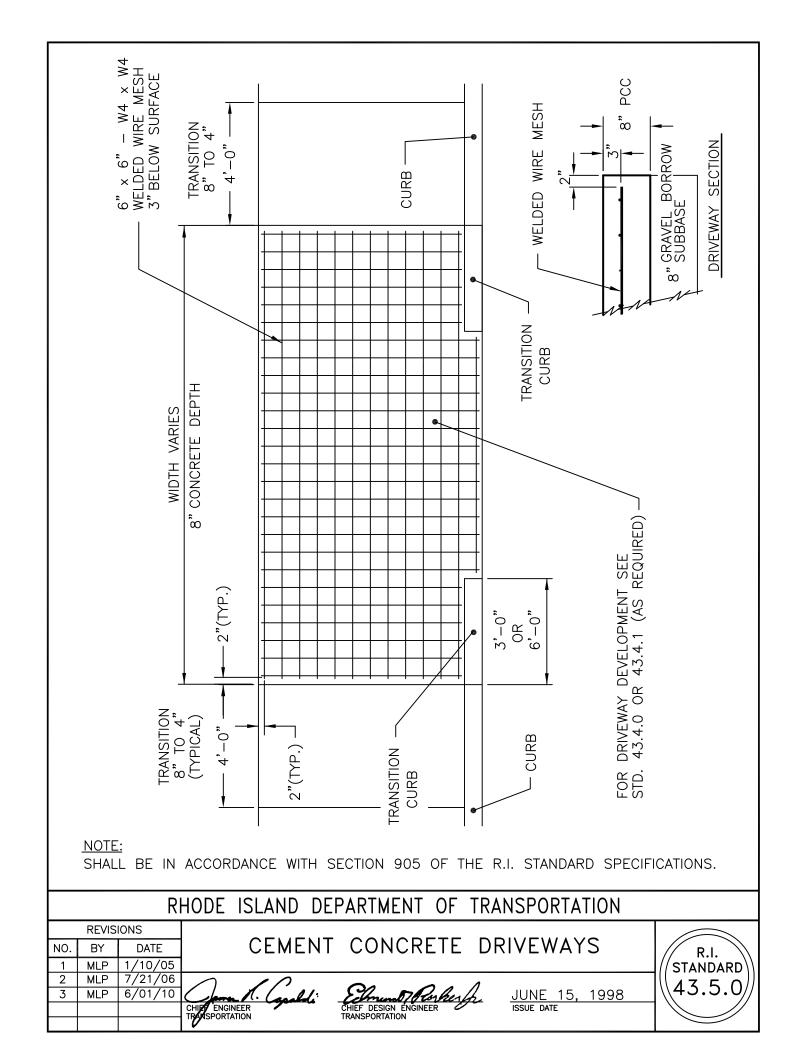


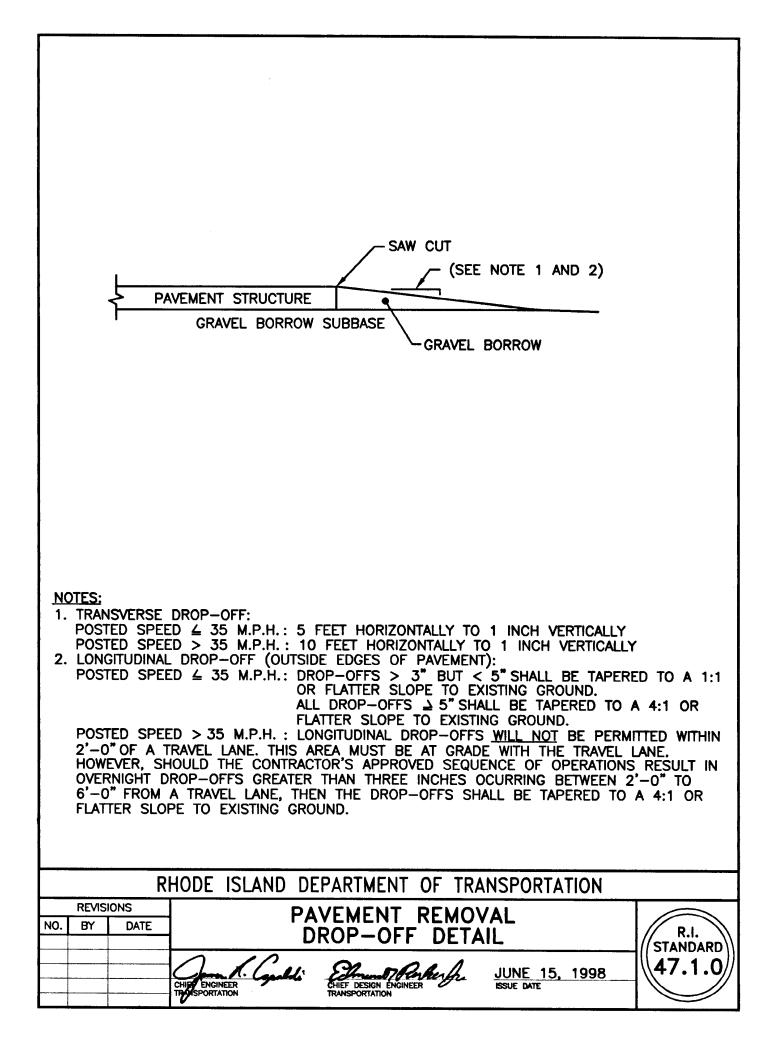


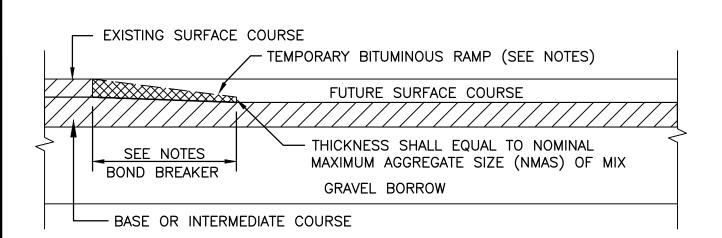
	CON	ISTRUCT	MAY BE USED WHEN A PHYSICAL BARRIER IS PRESENT AND THERE IS INSUFFICIENT ROOM TO PROPERLY AN ADA ACCESSIBLE RAMP AND LANDING; A TECHNICAL INFEASIBILITY FINDING IS REQUIRED.									
			ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.									
3			ANDING AND TRANSITIONS SHALL BE FREE OF OBSTRUCTIONS.									
4			THE RAMP-LANDING IS AS SHOWN ON CONTRACT DRAWINGS.									
			RUCTED PEDESTRIAN ACCESS ROUTE (PATH OF TRAVEL) WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.									
			CE OF THE RAMP-LANDING SHALL BE FLUSH WITH THE PAVEMENT.									
			NGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).									
			ED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.									
9	. Det	ECTABLE	WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS									
			RHODE ISLAND DEPARTMENT OF TRANSPORTATION									
	REVISI	ONS										
NO.	BY	DATE	RAMP-LANDING FOR NARROW SIDEWALK									
			$V_{12} = 0$ $V_{12} = 0.15$ $W_{43.3.2}$									
			MARCH 51, 2015									
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION									











1) FOR POSTED SPEEDS OF 35 MPH OR LESS, TRANSVERSE DROP-OFFS SHALL BE GRADED AT A SLOPE NOT STEEPER THAN 2 FEET HORIZONTAL TO 1 INCH VERTICAL. FOR POSTED SPEEDS GREATER THAN 35 MPH, TRANSVERSE DROP-OFFS SHALL BE GRADED AT A SLOPE NOT STEEPER THAN 5 FEET HORIZONTAL TO 1 INCH VERTICAL.

2) A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED BETWEEN THE TEMPORARY RAMP AND UNDERLYING AREA. PRIOR TO PLACING THE SURFACE COURSE, THE BOND BREAKER WILL BE REMOVED.

	RHODE ISLAND DEPARTMENT OF TRANSPORTATION											
	REVIS	ONS	PAVEMENT	TRANSVERSE DR								
NO.	BY	DATE		PAVEMENT TRANSVERSE DROP-OFFS CUT AND MATCH								
1	AMM	Jan 25	U	UT AND MAICH		R.I.						
			Robert Rocchio	Lori A. Fisette		₩ 47 1 1 //						
					<u>JUNE 15, 1998</u>							
			Chief Engineer for Infrastructure TRANSPORTATION	Director, Division of Project Management TRANSPORTATION	ISSUE DATE							

