

# STANDARD DETAILS

D6STDS : District 6 Standard Detail Sheet Files September 2005

THIS BOOK CONTAINS SPECIAL DISTRICT DETAILS USED FOR THE PURPOSE OF ASSISTING THE DESIGNER IN PREPARATION OF STUDIES AND PLANS CONTRACTS.

THE DETAILS ARE LISTED BY ALPHABETICAL ORDER IN CONJUNCTION WITH THE SECTIONS OF THE CURRENT "HIGHWAY STANDARDS" MANUAL FOR EASY REFERENCE.

Copy of this index located in ProjectWise:

\\District 6\Standards\Standard Details\index.doc

All standard drawings are for 20 scale English sheets, with dual unit labeling, unless otherwise noted.

Note: \* DENOTES REPLACED BY HIGHWAY STANDARD

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		PLOT SCALE = 40.0000' / in.	REVISED -								
		PLOT DATE = 5/10/2016	REVISED -				SCALE:	SHEET	OF	SHEETS	STA.
											ILLINOIS FED. AID PROJECT
											CONTRACT NO.

# INDEX

**FILENAME**                      **DETAIL DESCRIPTION**

**Section 100 - MISCELLANEOUS DISTRICT 6 CADD DATA**

85x11CoverSheet.dgn            8 1/2 x 11 Cover Sheet  
 aggregate.dgn                    AGGREGATE GRADATION CHART & DISTRICT PLANT  
 super.dgn                         Superelevation Transition Detail for 2-Lane Highway  
 tkdata.dgn                        Truck Turning Templates for Geometrics

**Section 200 - EARTHWORK & EROSION CONTROL**

curtain.dgn                        Temporary Erosion Control  
 granular backfill detail.dgn    Top or Bottom of Culvert  
 retwall.dgn                        Modular Retaining Wall System  
 seeding.dgn                        Class 2 and 4 Seeding Detail  
 slopestep.dgn                    Slope Steps Detail (from D4)  
 swpplan.dgn                        Storm Water Pollution Prevention Legend & Information

**Section 300 - SUBGRADES SUBBASES & BASE COURSES**

**Section 400 - PAVEMENT, REHABILITATION and SHOULDERS**

3rentcg.dgn                        3R entrance & mailbox turnout in curb and gutter section (JCN)  
 3rentgm.dgn                        3R entrance & mailbox turnout in modified gutter section (JCN)  
 3rmrural.dgn                        3R entrance & mailbox turnout in rural section (JCN)  
 452001.dgn                        crack and joint sealing (from D4)  
 coldmill.dgn                        Cold milling Detail for check sheet #15 01jan99  
 ent\_3r.dgn                         3R rural/urban entrance and mailbox detail w/o conc gutter (JCN)  
 ent\_3r\_c&g.dgn                    Entrance & mailbox in curb & gutter section – 3R Projects (JCN)  
 ent\_3r\_tag.dgn                    Entrance & mailbox in std Type A gutter – 3R Projects (JCN)  
 ent\_3r\_tag\_m.dgn                Entrance & mailbox in Type A gutter mod – 3R Projects (JCN)  
 ent\_ppp.dgn                        PPP rural/urban entrance & mailbox detail w/o conc gutter (JCN)  
 patchbit.dgn                       Bituminous Patching - check sheet #23 1jan99  
 ppp96.dgn                         3P Entrance and Side road Detail without Milling (WJR)  
 rumble.dgn                         Rumble Strip Detail (on shoulder)  
 rumble\_strip.dgn                 Rumble Strip Detail (on pavement)  
 siderd.dgn                         Rural Side road Detail (DJK)  
 smart96.dgn                        SMART Entrance and Side road Detail with Milling (WJR)  
 smartppp.dgn                      Entrance, Mailbox Turnout and Side Road for SMART & PPP (JCN)  
 type\_A\_gutter\_modified         Type A gutter modified – inlet, outlet & entrance (JCN)

**Section 500 - BRIDGES & CULVERTS**

barpre.dgn                         Cast-in-Place End Section for Pre-cast Concrete Box Culvert  
 barsplice.dgn                     Bridge Deck Bar Splice for Stage Construction  
 bondedjt.dgn                     Bonded Joint Seal for Bridge Repair - Operations  
 brdrain.dgn                        Bridge Deck Drain Extension Detail  
 brgdetails.dgn                    Type I and Type II Elastomeric Exp. Bearing  
 drains.dgn                        Drain Extension Details  
 drains1.dgn                        Drain Extension Details  
 drains2.dgn                        Drain Extension Details  
 JointDetails.dgn                 Repairs  
 retrofit.dgn                        Parapet Retrofit for Aluminum Handrail  
 siljoint.dgn                        Silicone Joint Seal for Concrete or Steel Bridge Joints

**Section 600 - DRAINAGE**

1913mod.dgn                        Concrete Gutter, Type A (Modified) - 2 sheets  
 cad2218.dgn                        Frame and Grate Special for Modified Gutter Type A  
 cbasin.dgn                        Combined Sewer Catch Basin Detail  
 collar.dgn                         Concrete Collar & Culvert Extension Detail  
 engdis.dgn                        Culvert Energy Dissipating Basin Detail  
 excelsior.dgn                      Excelsior Blanket Detail  
 ffile.dgn                         Field Tile Replacement Detail  
 hwl.dgn                            Concrete Headwall for Pipe Drain 16"  
 mhlarge.dgn                        Manhole Type A - 2100 mm (84")  
 pdrain.dgn                        Transverse Pipe Underdrain  
 precstext.dgn                    Pre-cast Box Culvert Extension Detail  
 revmat.dgn                        Fabric Formed Concrete Revetment Mat  
 riprap.dgn                        Ditch Riprap Detail  
 splash.dgn                        Culvert Splash Mat Detail  
 still.dgn                         Temporary Still Basin Details  
 subsurf.dgn                        Standard 601001 - Pipe Underdrain Detail  
 type\_E.dgn                        Inlet Special Type E

**Section 630 - SAFETY**

bikerail.dgn                        Detail for Wood Guard Rail for Bike Paths  
 Guardrail\_Short\_Radius.dgn    Short Radius Guardrail BDE Procedure Memo 36-03

**Section 660 - FENCING - MARKERS & MISCELLANEOUS**

**Section 700 - WORK ZONE TRAFFIC CONTROL**

2309s.dgn                         Standard 701316 Special - Bridge Stage Construction  
 2315s.dgn                         Standard 701406 Special - Multilane Closure Daytime Only  
 2316s.dgn                         Standard 701401 Special - Multilane Closure Overnight  
 2409s.dgn                         Standard 701321 Special - with Side Road(s) - 2 sheets  
 701501s.dgn                        Urban Lane Closure with Bi-directional Turn Lane  
 701606s.dgn                        Urban Multi-lane Closure with Bi-directional Turn Lane  
 jlgt017.dgn                        Night Time Lighting Inspection < 15 Minutes per Luminaire  
 rrdetour.dgn                       Railroad Crossing Run-Around

# INDEX

## Section 720 - SIGNING

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nomowsign.dgn	No Mowing or Spraying Sign
wildflower-prairieplant.dgn	Wildflower and Prairie Plant Signs

## Section 780 - PAVEMENT MARKING

780001a.dgn	District 6 Pavement Marking Guide - incomplete
782001a.dgn	Prismatic Curb Reflectors – applies to concrete median special
prism.dgn	Prismatic Curb Reflectors – applies to curbed median
tempmk.dgn	Short Term Pavement Marking for Interstates

## Section 800 - ELECTRICAL

al_mastarm.dgn	Aluminum Mast Arm Assembly and Pole
Bridge_Temp_Signal.dgn	Temporary Bridge Traffic Signal Loop Placement Detail
combalum.dgn	Combination Aluminum Mast Arm
count93.dgn	Traffic Counter Terminal Facility
detloop.dgn	Detector Loop Detail & Traffic Signal Legend
jlgt001.dgn	Bridge Crossing Detail
jlgt002.dgn	Conduit in Bridge Parapet Details
jlgt003.dgn	Control installation Service Pole Mounted
jlgt004.dgn	Control installation Dual
jlgt005.dgn	Control installation Type CB-RCS-100
jlgt006.dgn	Control Installation Type CB-RCS-60
jlgt007.dgn	Light Pole Foundation
jlgt008.dgn	Pole Standards
jlgt011.dgn	Navigation Lighting
jlgt013.dgn	Sign Lighting Details
jlgt014.dgn	Temporary Roadway Lighting
lgt836.dgn	Light Pole Foundation
servta.dgn	Service Installation Type A (Modified)
servtb.dgn	Service Installation Type B (Modified)
servtc.dgn	Service Installation Type C (Modified)
solar94.dgn	Four Week Traffic Count Station
vcamera.dgn	Video Detection System Installation Detail

## Section 000 - MISCELLANEOUS TABLES

INDEX.doc – March 2003

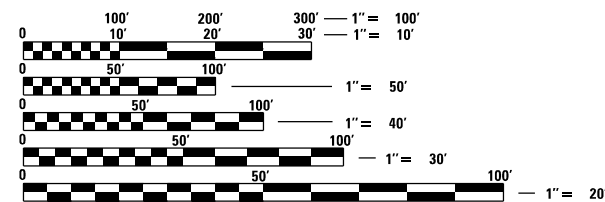
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PLOT DATE = 5/10/2016		DATE -	REVISED -															

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROPOSED  
 HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO.

ROUTE  
 SECTION  
 PROJECT  
 TYPE of IMPROVEMENT  
 COUNTY  
 C-9x-xxx-xx

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ILLINOIS		1
CONTRACT NO.				



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

**PROJECT ENGINEER  
 PROJECT MANAGER**

**CONTRACT NO.**

**LOCATION OF IMPROVEMENT  
 BEGIN STA. XXXX  
 TO END STA. XXXX**

GROSS LENGTH = x.xx FT. = x.xxx MILE  
 NET LENGTH = x.xx FT. = x.xxx MILE

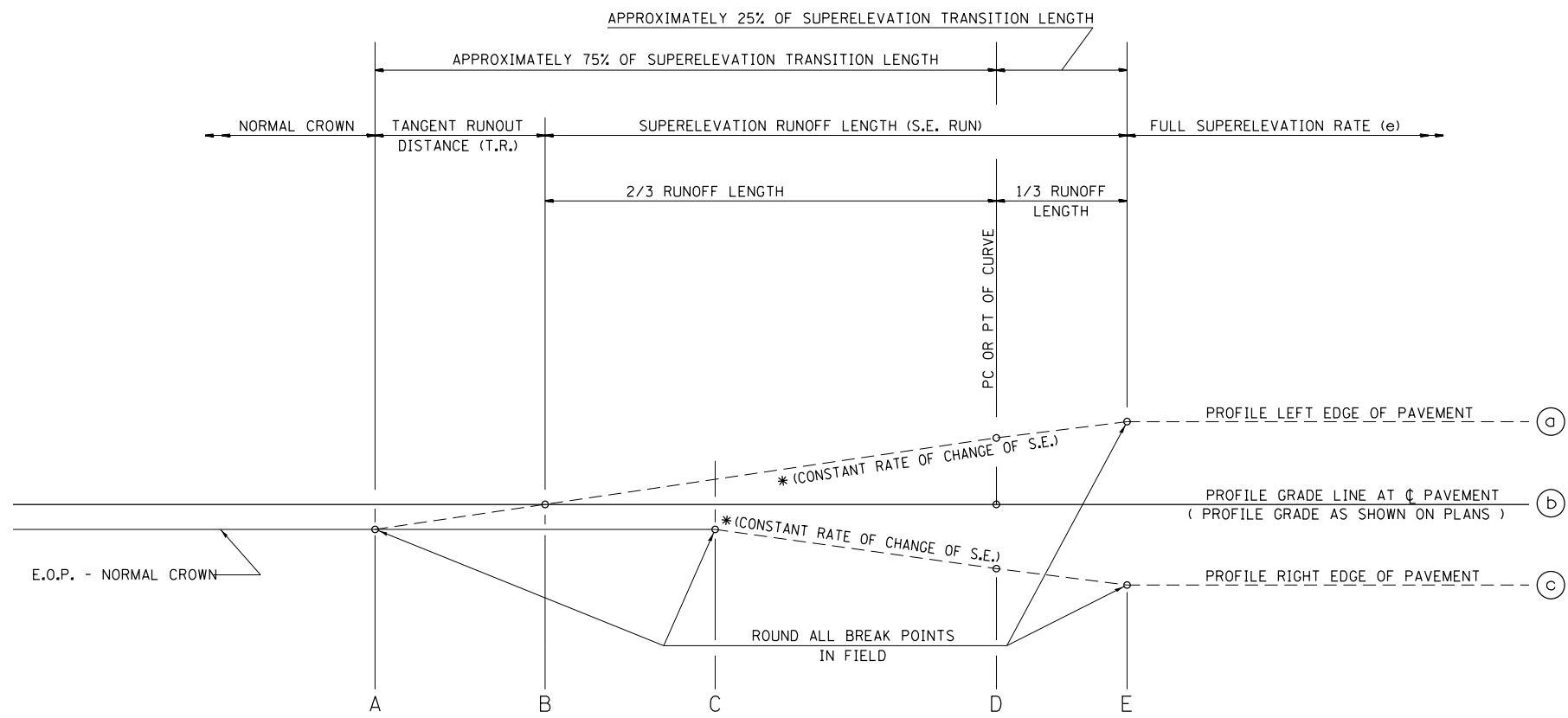
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED \_\_\_\_\_ 20 \_\_\_\_\_  
 \_\_\_\_\_  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

\_\_\_\_\_ 20 \_\_\_\_\_  
 \_\_\_\_\_  
 ENGINEER OF DESIGN AND ENVIRONMENT

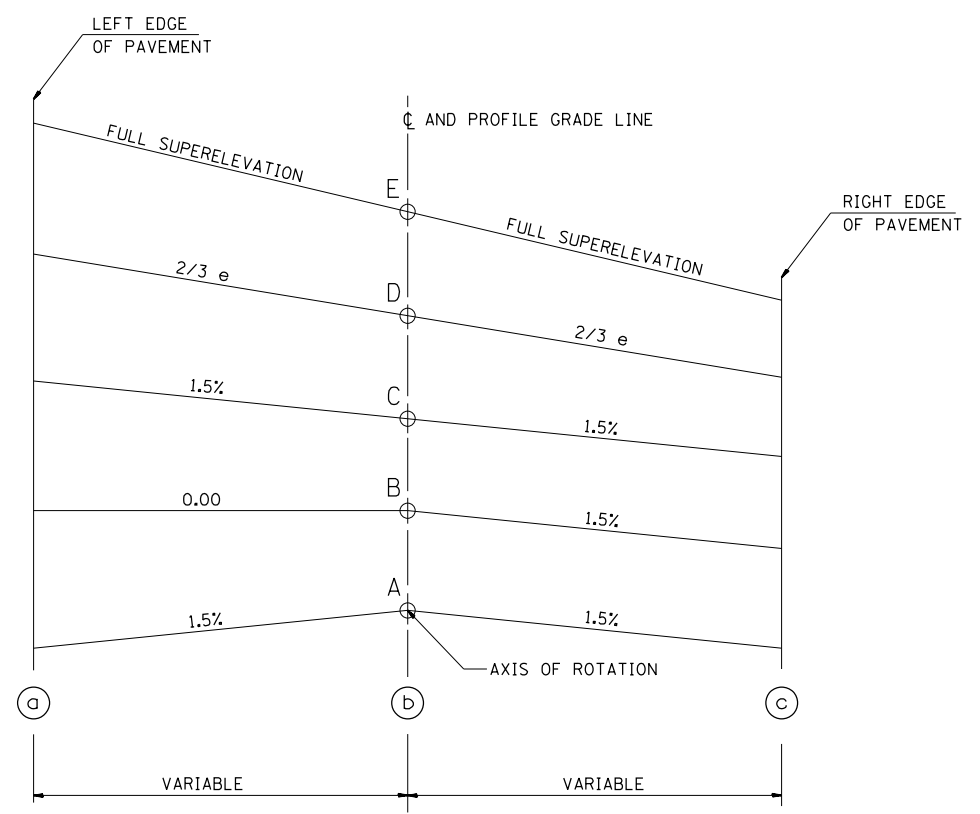
\_\_\_\_\_ 20 \_\_\_\_\_  
 \_\_\_\_\_  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**



SEE PLANS FOR CURVE DATA INFORMATION  
 CURVE DATA  
 P.I. STA=  
 $\Delta$ =  
 R=  
 T=  
 L=  
 E=  
 e= SUPERELEVATION RATE IN PERCENT  
 T.R.= TANGENT RUNOUT DISTANCE  
 S.E. RUN= SUPERELEVATION RUNOFF LENGTH  
 P.C. STA=  
 P.T. STA=

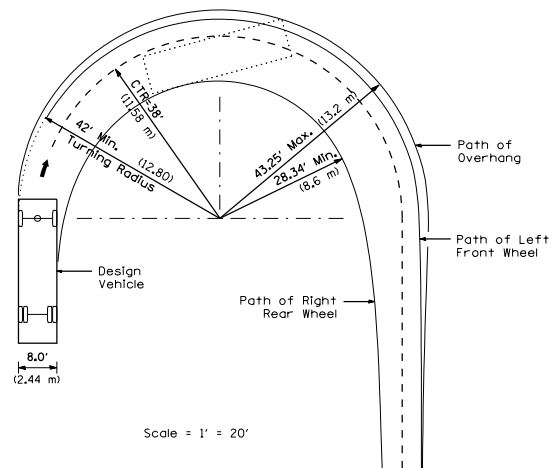
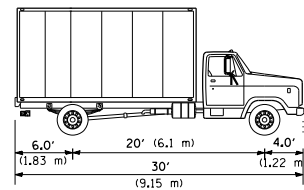
TYPICAL PROFILE - S.E. TRANSITION



TYPICAL CROSS SECTION - S.E. TRANSITION

CURVE NO.	e	A	B	C	D	E	TRANSITION
12	8%	0+412.588	0+423.638	0+434.688	0+462.938	0+482.588	Trans. In
		0+659.220	0+648.170	0+637.120	0+608.870	0+589.220	Trans. Out
122	8%	3+782.663	3+793.713	3+804.763	3+833.013	3+852.663	Trans. In
		4+171.010	4+159.960	4+171.010	4+120.660	4+101.010	Trans. Out

Scale = 1' = 50'



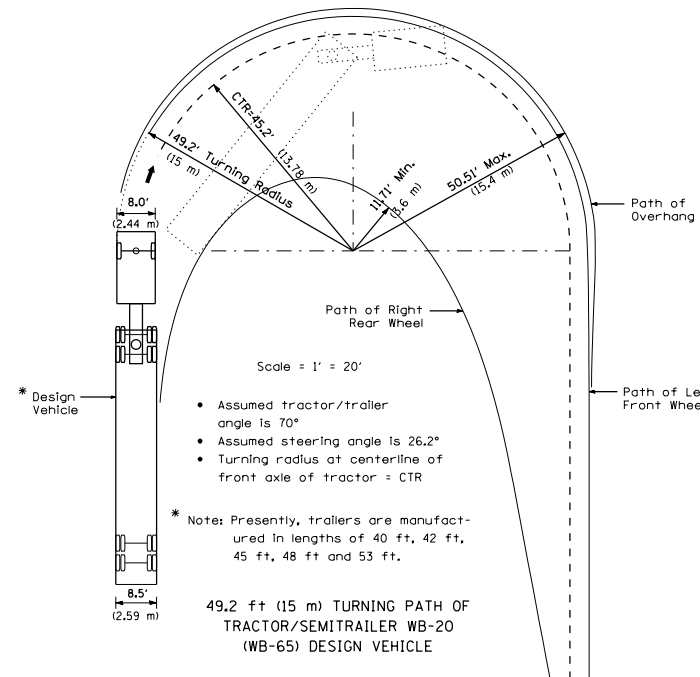
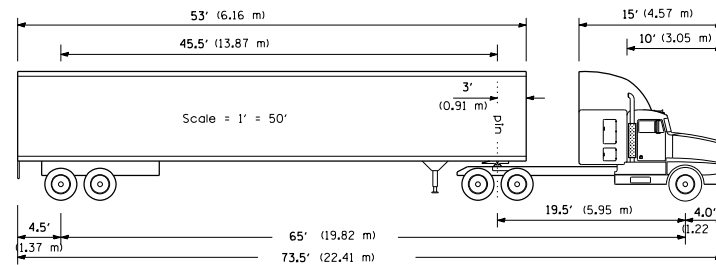
Scale = 1' = 20'

- Assumed steering angle is 31.9°
- Turning radius at centerline of front axle = CTR

MINIMUM TURNING PATH OF TRUCK (SU) DESIGN VEHICLE

Figure 3-221 (c)

Revised Dec. 1995



Scale = 1' = 20'

- Assumed tractor/trailer angle is 70°
- Assumed steering angle is 26.2°
- Turning radius at centerline of front axle of tractor = CTR

\* Note: Presently, trailers are manufactured in lengths of 40 ft, 42 ft, 45 ft, 48 ft and 53 ft.

49.2 ft (15 m) TURNING PATH OF TRACTOR/SEMITRAILER WB-20 (WB-65) DESIGN VEHICLE

Figure 3-221 (g)

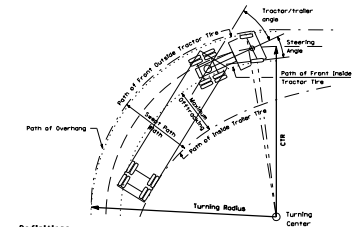
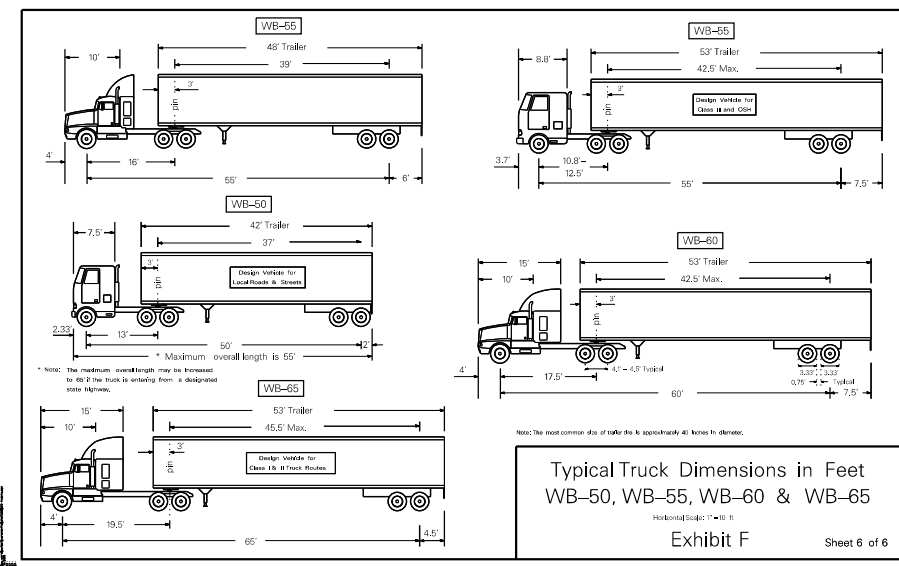
Revised Dec. 1995

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

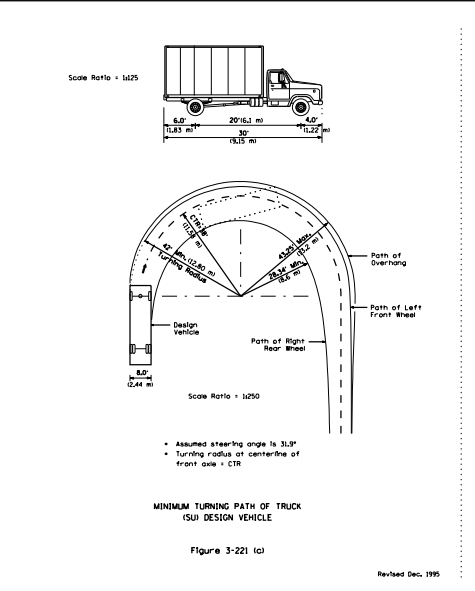
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				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



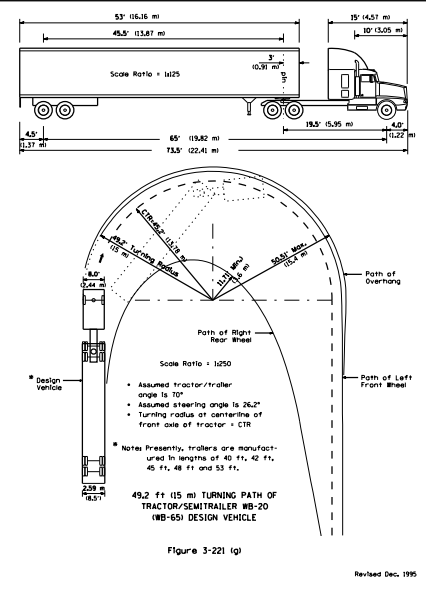
- Definitions:**
1. **Turning radius** - The circular arc formed by the turning path radius of the front outside tire of a vehicle. This radius is also described by vehicle manufacturers as the "turning curb radius".
  2. **CTR** - The turning radius assumed by a designer when investigating possible turning paths and is set at the centerline of the front end of a vehicle.
  3. **Offtracking** - The difference in the paths of the front and rear wheels of a tractor/semitrailer as it negotiates a turn. The path of each rearward tire of a turning truck does not coincide with that of the corresponding forward tire, and this phenomenon is shown in the drawing above.
  4. **Sweep path width** - The amount of roadway width that a truck covers in negotiating a turn and is equal to the amount of offtracking plus the width of the tractor unit. The most significant dimension affecting the sweep path width of a tractor/semitrailer is the distance from the kingpin to the rear trailer axle or axles. The greater this distance is the greater the sweep path width.
  5. **Steering angle** - The maximum angle of turn built into the steering mechanism of the front wheels of a vehicle, and this maximum angle controls the minimum turning radius of the vehicle.
  6. **Tractor/trailer angle** - The angle between adjoining units of a tractor/semitrailer when the combination unit is poised into a turn, and this angle is measured between the longitudinal axes of the tractor and trailer as the vehicle turns. The maximum tractor/trailer angle occurs when a vehicle makes a 180° turn at the minimum turning radius, and this angle is reached slightly beyond the point where maximum sweep path width is achieved.

TURNING CHARACTERISTICS OF A TYPICAL TRACTOR/SEMITRAILER VEHICLE

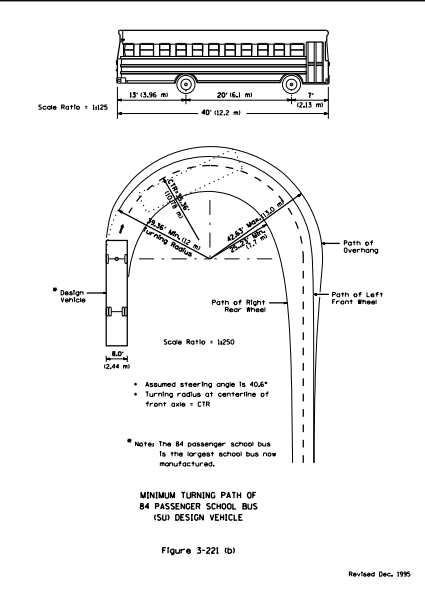
Figure 3-221 (d) Revised April 1996



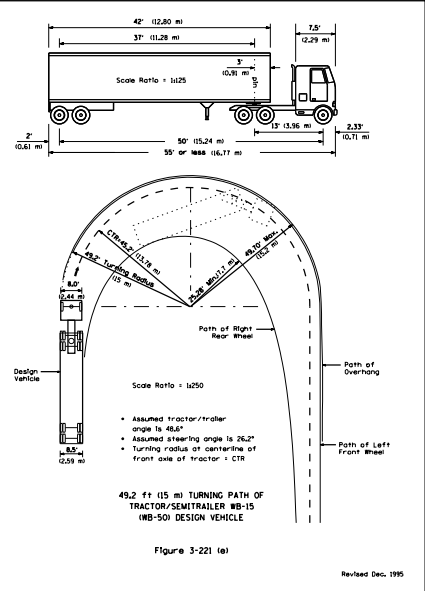
Revised Dec. 1995



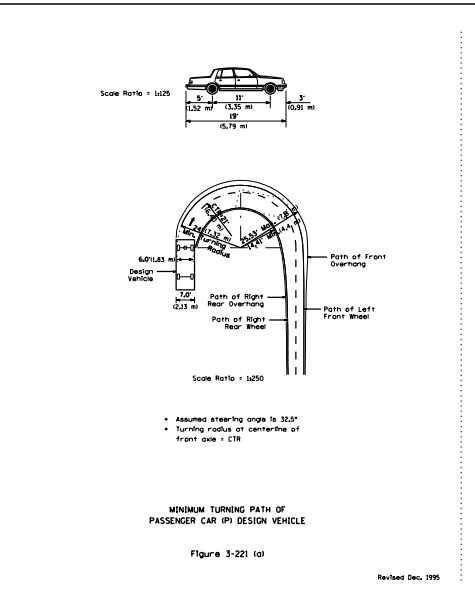
Revised Dec. 1995



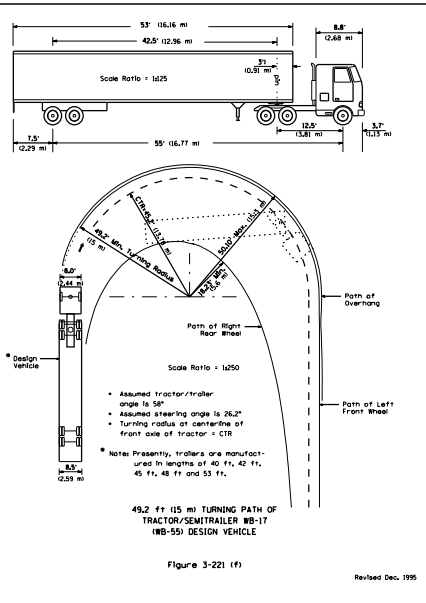
Revised Dec. 1995



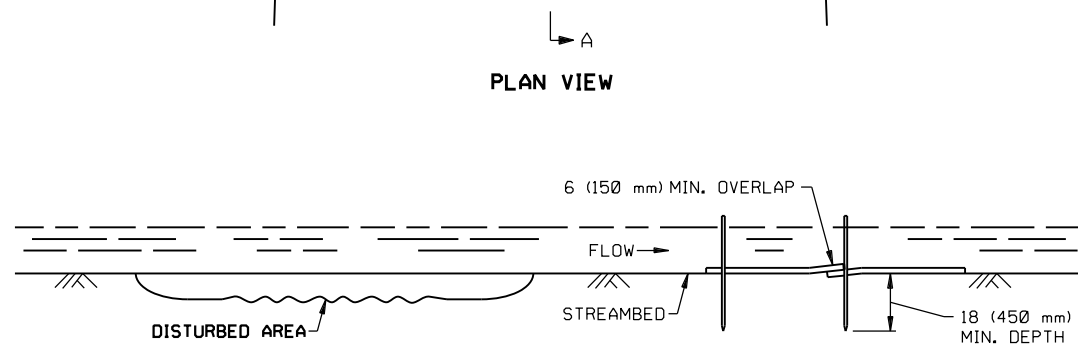
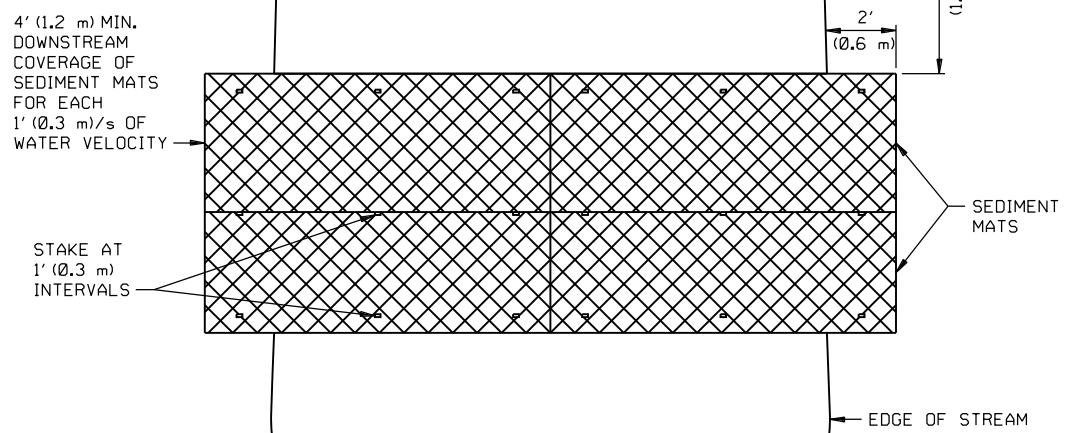
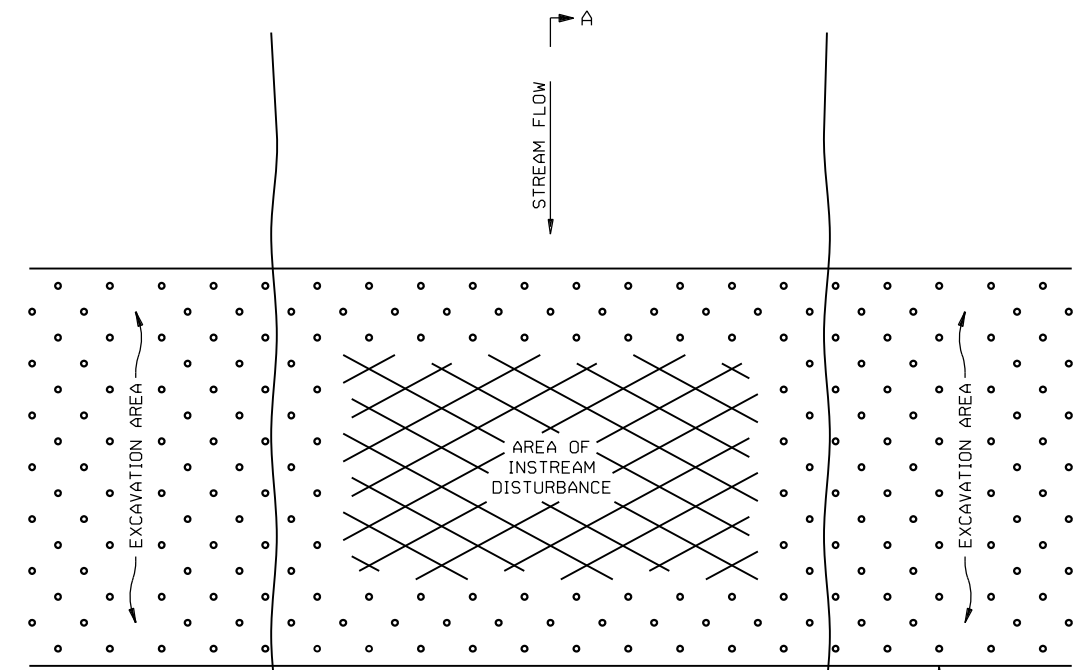
Revised Dec. 1995



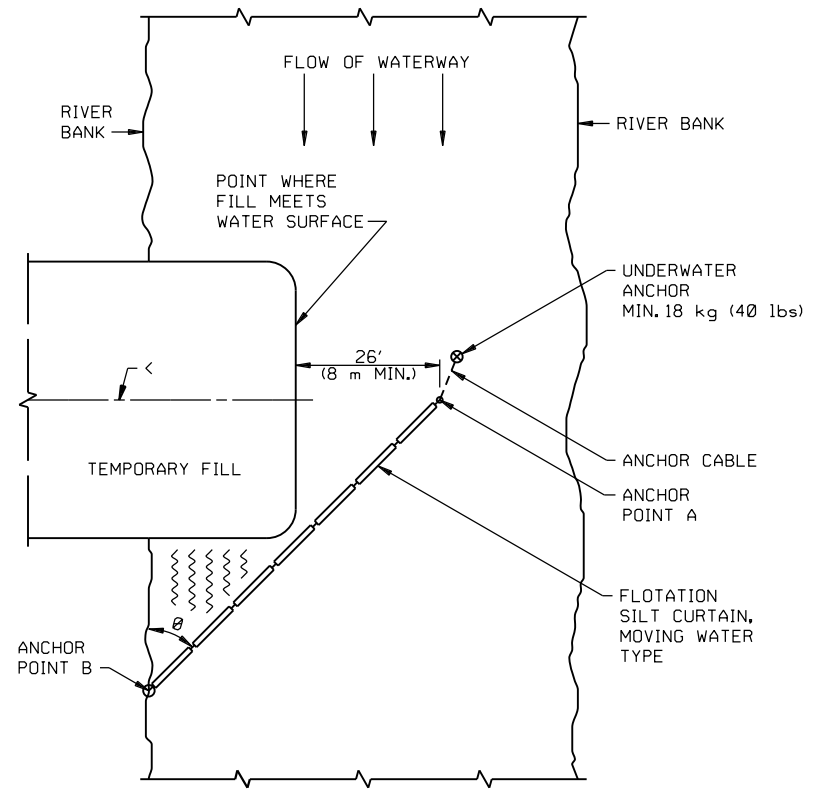
Revised Dec. 1995



Revised Dec. 1995

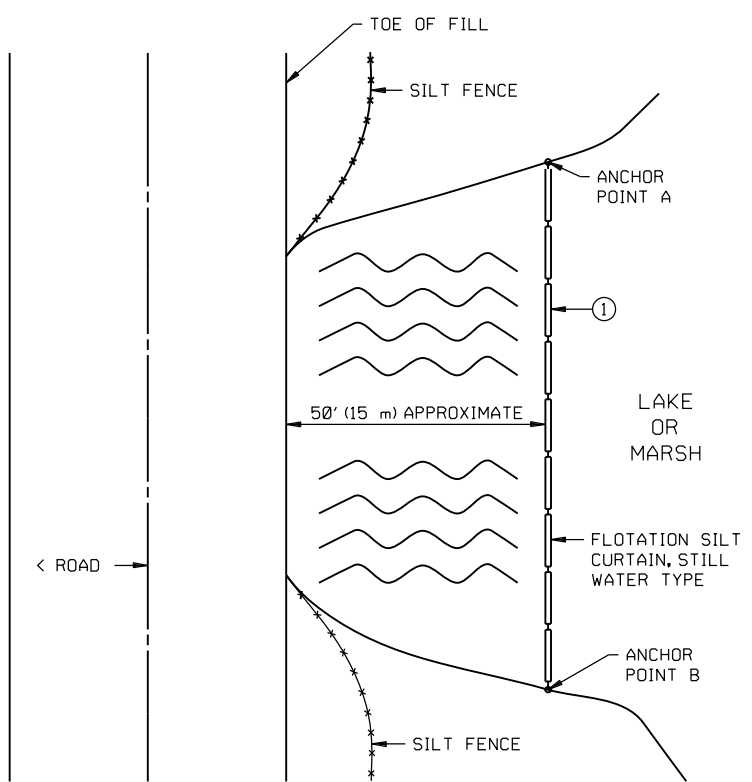
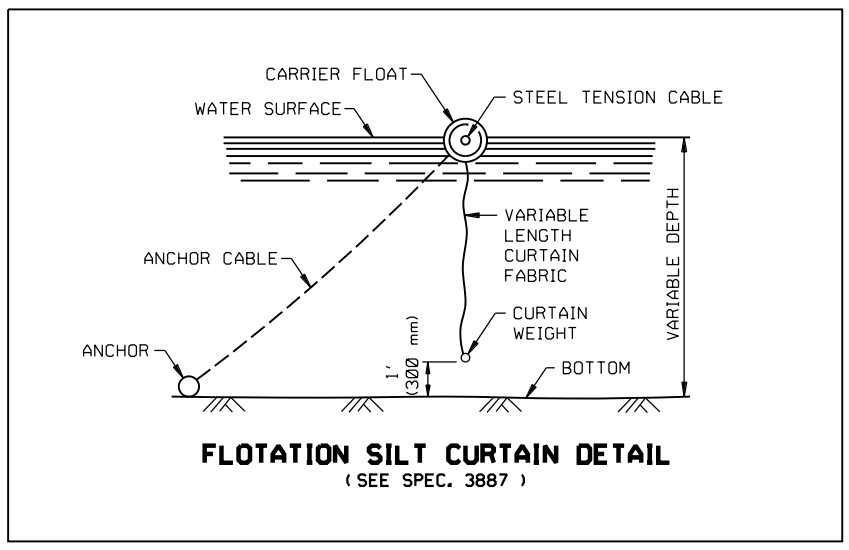


**SECTION A-A**  
**SEDIMENT MAT**  
 TYPICAL STREAMBED INSTALLATION  
 DESIGN CRITERIA:  
 MAXIMUM FLOW VELOCITY: 5' (1.5 m)/s  
 MAXIMUM FLOW DEPTH: 2' (0.6 m)

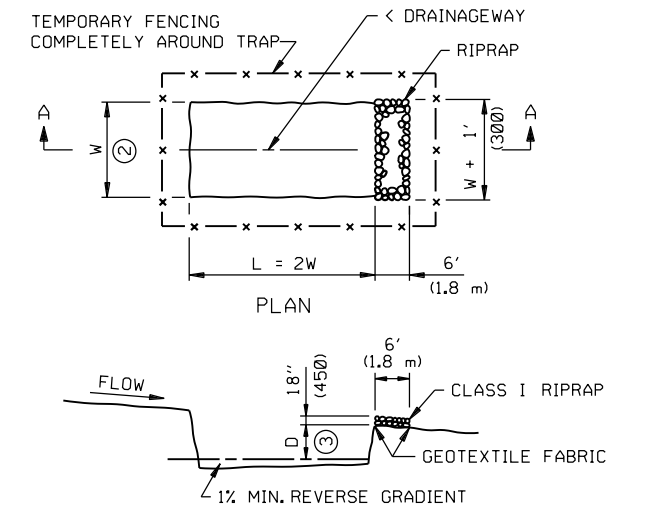


$\angle \theta$	RIVER VELOCITY
45°	SLOW, LESS THAN 5' (1.5 m)/s
35°	MODERATE, 5' (1.5 m) - 6'-7' (2 m)/s

**PLAN VIEW OF SILT CURTAIN - MOVING WATER**  
 DESIGN CRITERIA:  
 MAXIMUM WATER DEPTH: 12' (3.6 m)  
 MAXIMUM WATER VELOCITY: 7' (2.1 m)/s



**PLAN VIEW OF SILT CURTAIN - STILL WATER**  
 DESIGN CRITERIA:  
 MAXIMUM WATER DEPTH: 3.6 m (12')



**TEMPORARY SEDIMENT TRAP DETAIL**

- NOTES:**
- CURTAIN 1' (300 mm) FROM BOTTOM
  - W = 10' (3 m) MIN., 20' (6 m) MAX.
  - D = 3' (1 m) MIN., 6' (1.8 m) MAX.

NOTE: ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

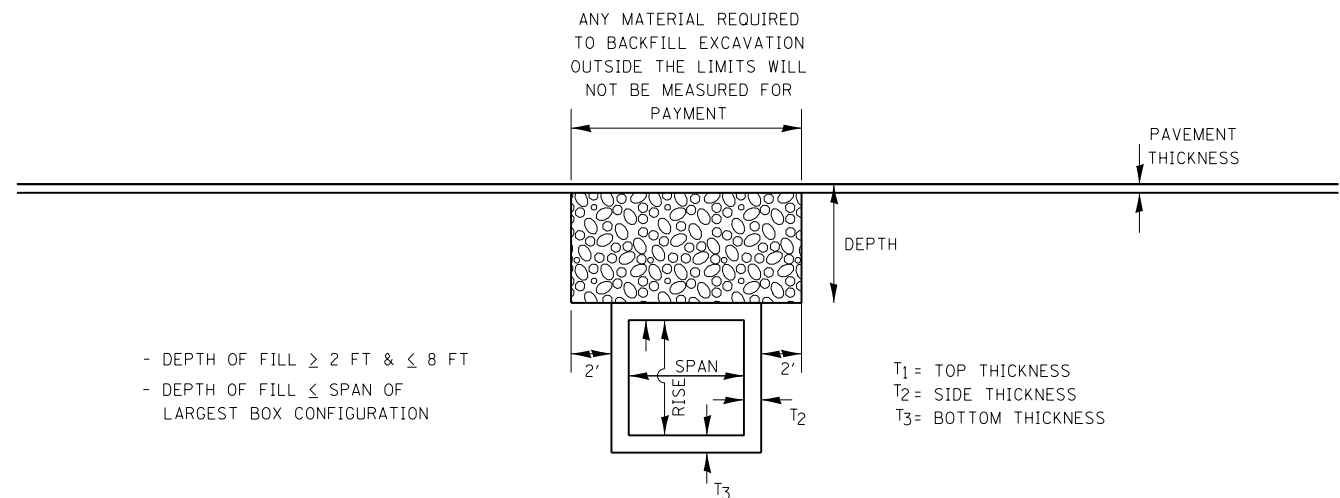
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	PLOT DATE = 5/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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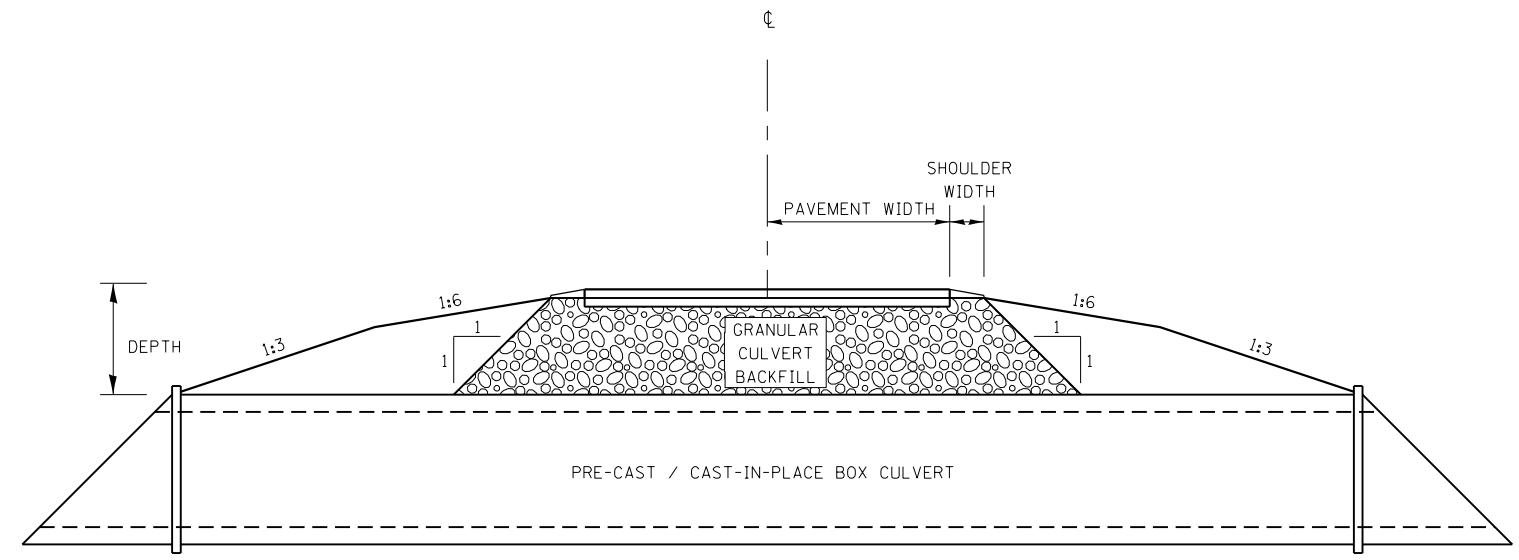
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	CONTRACT NO.			
	ILLINOIS FED. AID PROJECT			





\* NOTE: WILL NEED MODIFICATION FOR MULTICELL BOX CULVERTS

**PROFILE GRANULAR BACKFILL DETAIL FOR NEW ALIGNMENTS & CONSTRUCTION**



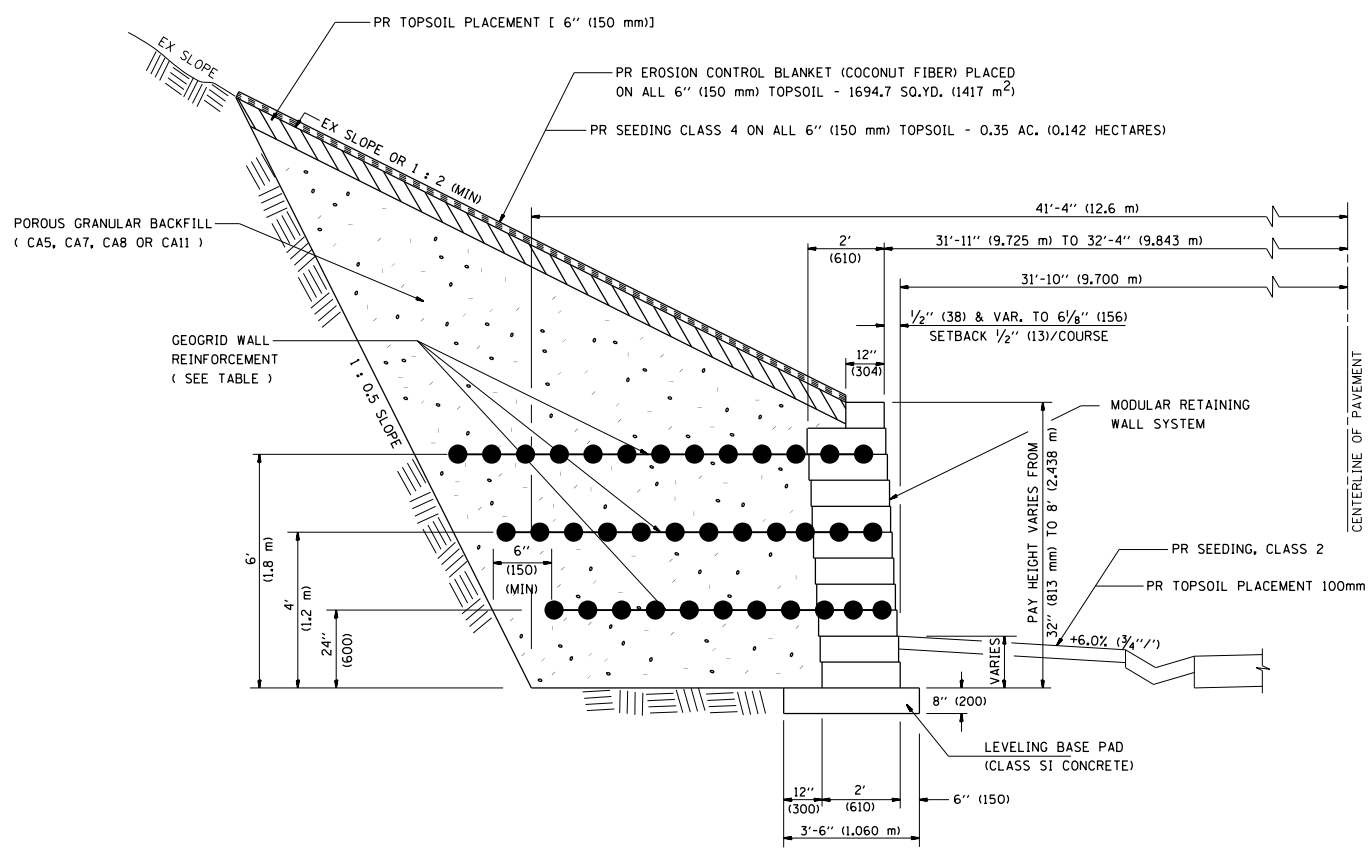
- DEPTH OF FILL ≥ 2 FT & ≤ 8 FT  
- DEPTH OF FILL ≤ SPAN OF LARGEST BOX CONFIGURATION

**CROSS SECTION GRANULAR BACKFILL DETAIL FOR NEW ALIGNMENTS & CONSTRUCTION**

FILE NAME =	USER NAME = Verenskifa	DESIGNED - BKL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GRANULAR BACKFILL DETAIL TO TOP OF BOX CULVERT</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\200-BK\Granular Backfill Detail.dwg	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					CONTRACT NO.					
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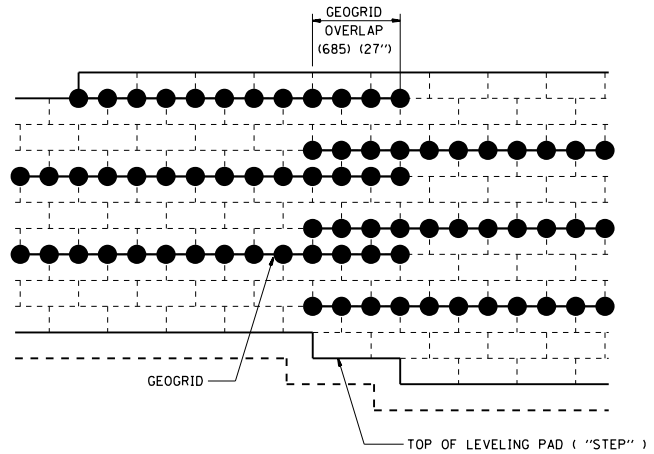




MODULAR RETAINING WALL SYSTEM  
TYPICAL SECTION

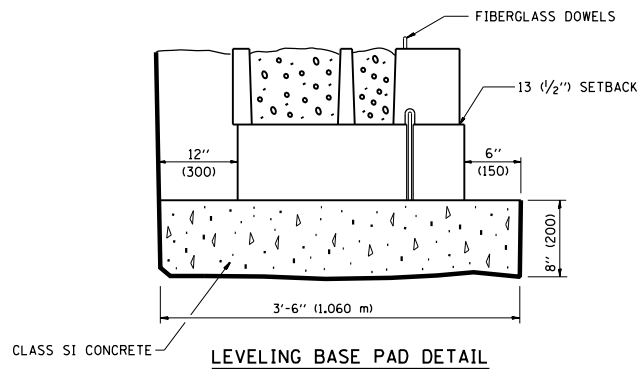
STATION LIMITS	POSITION OF GEOGRIDS ABOVE LEVELING PAD

- NOTES:
1. THE GEOGRIDS SHALL EXTEND NOT LESS THAN 3 m (10') BACK FROM THE FACE OF THE WALL.
  2. THE GEOGRIDS SHALL BE UX1500SB (SR-2) OR EQUIVALENT.
  3. THE SI CONCRETE LEVELING BASE PAD SHALL BE EXCAVATED INTO UNDISTURBED EARTH AND THE SIDES AND STEPS SHALL BE FORMED WITH SUITABLE FORMING MATERIAL.
  4. THE COST OF CONSTRUCTING THE SI CONCRETE LEVELING BASE PAD AND FURNISHING AND INSTALLING THE GEOGRID WALL REINFORCEMENT WILL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE METER (SQUARE YARD) FOR MODULAR RETAINING WALL SYSTEM.
  5. THE EARTH EXCAVATION TO CONSTRUCT THE WALL INCLUDING THE LEVELING BASE PAD AND THE POROUS GRANULAR EMBANKMENT WILL BE MEASURED AND PAID FOR SEPARATELY.
  6. IF THE EXISTING EMBANKMENT IN THE BACKSLOPE FAILS AND SLOUGHING OCCURS, THE AREA BEHIND THE PROPOSED POROUS GRANULAR BACKFILL MAY BE BACKFILLED WITH LOCAL MATERIAL AND COMPACTED IN 200 mm (8") LIFTS TO THE SATISFACTION OF THE ENGINEER.
  7. BRACING OF THE 1 TO 0.5 BACKSLOPE MAY BE REQUIRED.
  8. TOPSOIL PLACEMENT, EROSION CONTROL BLANKET AND SEEDING WILL BE MEASURED AND PAID FOR SEPARATELY.



TYPICAL GEOGRID OVERLAP DETAIL  
AT "STEP" IN LEVELING PAD

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN ON PLAN.



LEVELING BASE PAD DETAIL

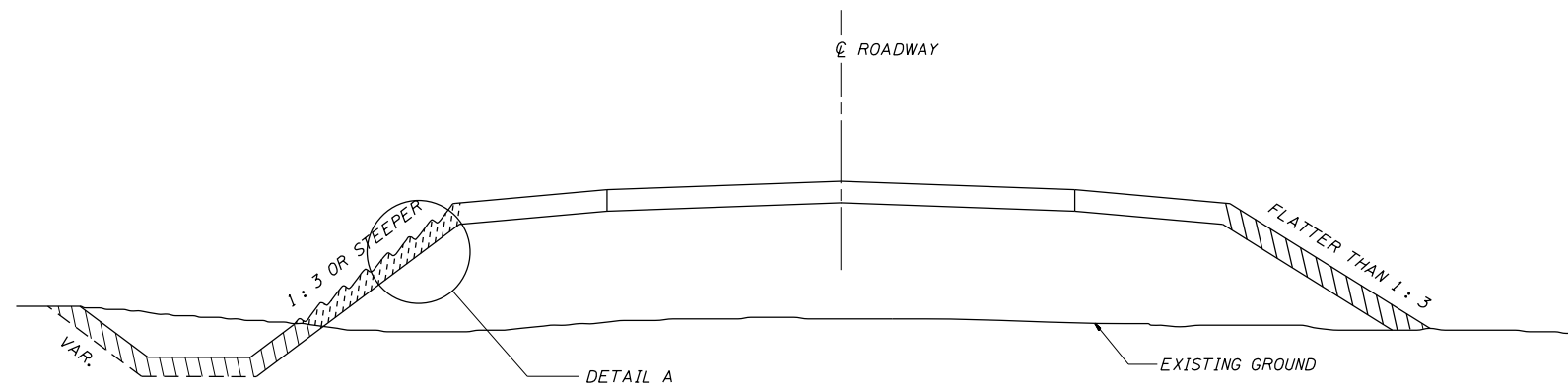
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pw\l\l084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Details\200-CAD\l\dgn		DRAWN -	REVISED -
Default	RETWALL.DGN	PLOT SCALE = 48.000' / in.	CHECKED -
		PLOT DATE = 5/10/2016	DATE = 6/12/96

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

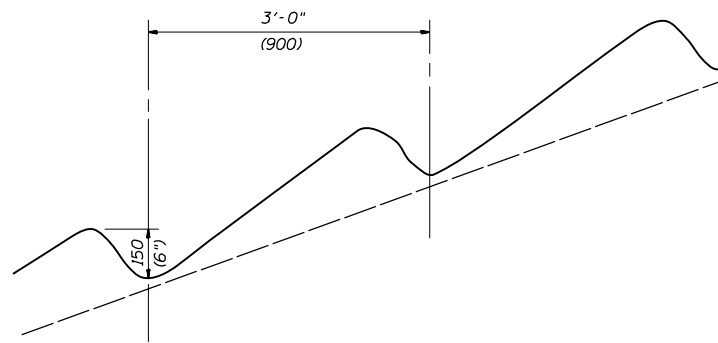
MODULAR RETAINING WALL SYSTEM

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



SEEDING DETAIL



DETAIL A

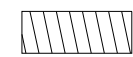
NOTES:

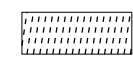
AREAS WHERE THE SLOPE HEIGHTS EXCEED 5' (1.5 m) IN DEPTH AND THE SLOPES ARE 1 : 3 OR STEEPER, THE SLOPES SHALL BE PLOWED WITH 6" (150 mm) DEEP TRENCHES APPROXIMATELY 3' (900 mm) ON CENTER PARALLEL TO THE CONTOUR LINES OF THE CUT OR FILL AND SEEDED WITH CLASS 2 AND 4 MIXTURE. MULCH IN THESE AREAS SHALL BE DONE IN ACCORDANCE WITH METHOD 1.

ALL OTHER AREAS DISTURBED WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 2 AND 4 SEEDING AND MULCH IN ACCORDANCE WITH METHOD 2, PROCEDURE 2 AS SPECIFIED IN ARTICLE 251.03(b) OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

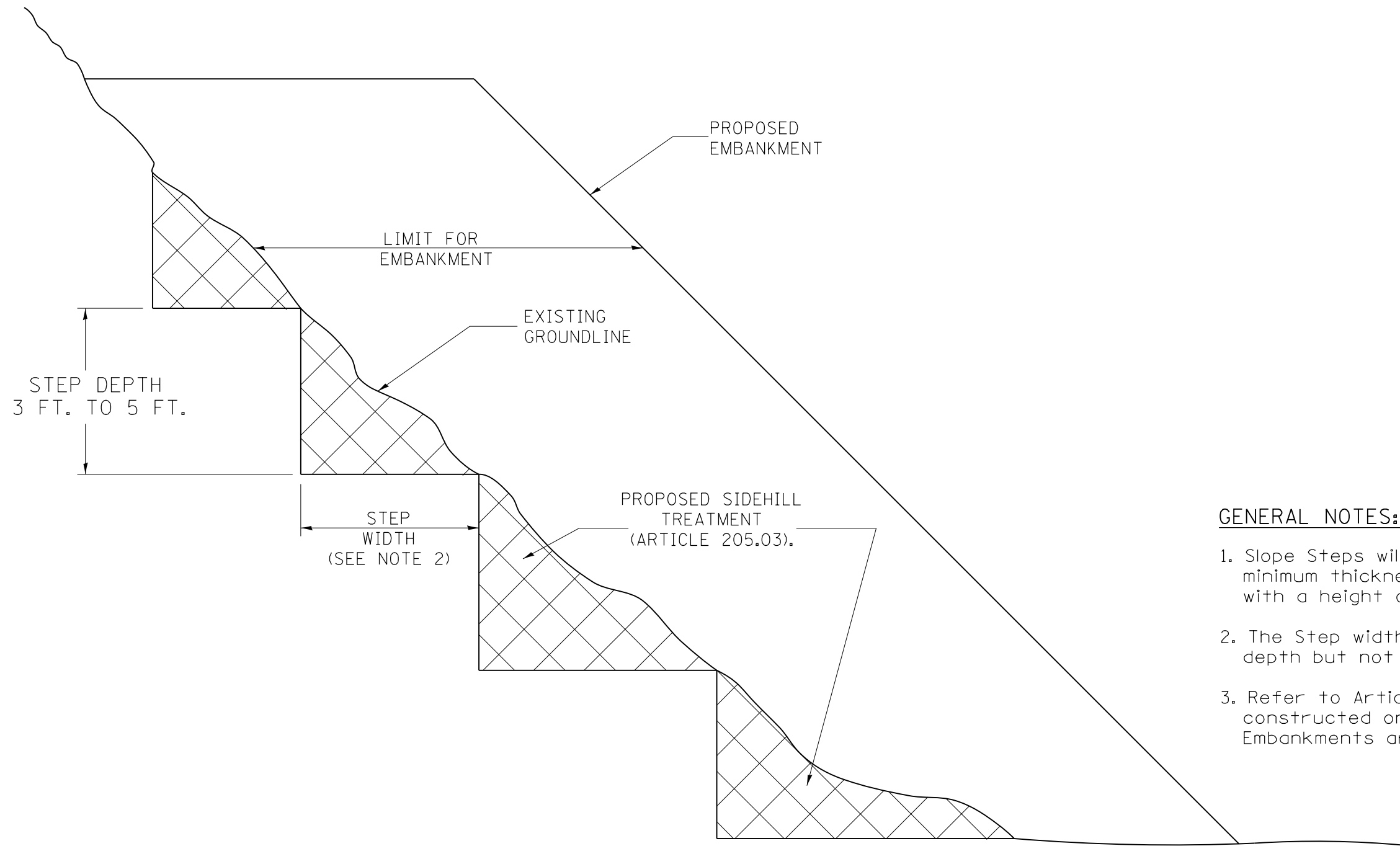
LEGEND

 CLASS 2 AND 4 SEEDING  
MULCH METHOD 2 (SEE NOTES)

 CLASS 2 AND 4 SEEDING  
MULCH METHOD 1 (SEE NOTES)

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SEEDING DETAILS</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Detail\200-seeding.dgn		DRAWN	REVISED -										
Default		CHECKED -	REVISED -						CONTRACT NO.				
SEEDING.DGN		DATE - 6/21/96	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

**SLOPE STEPS DETAIL**  
 TYPICAL CROSS-SECTION EMBANKMENT  
 CONSTRUCTION ON SIDEHILL



**GENERAL NOTES:**

1. Slope Steps will be required for all 12 (300) minimum thickness "silver fills" and on a fills with a height of 10' (3.0 m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

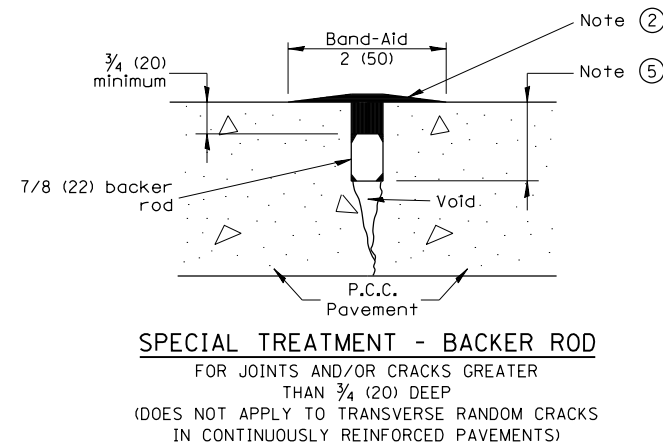
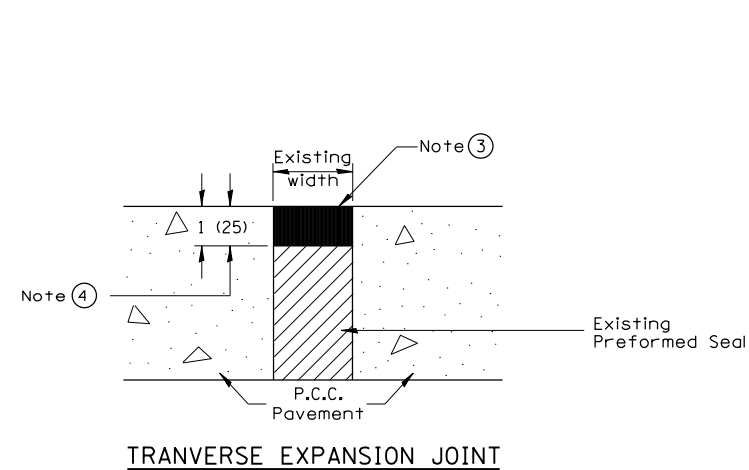
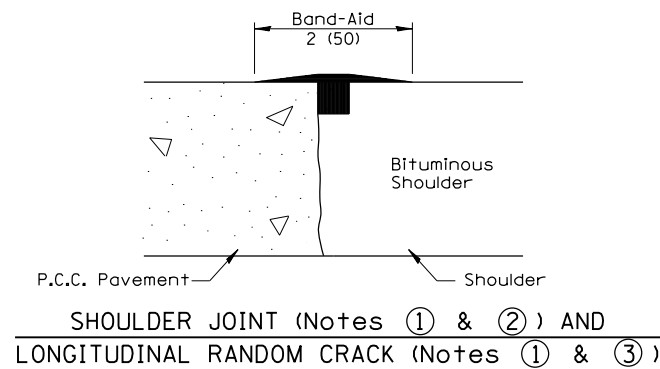
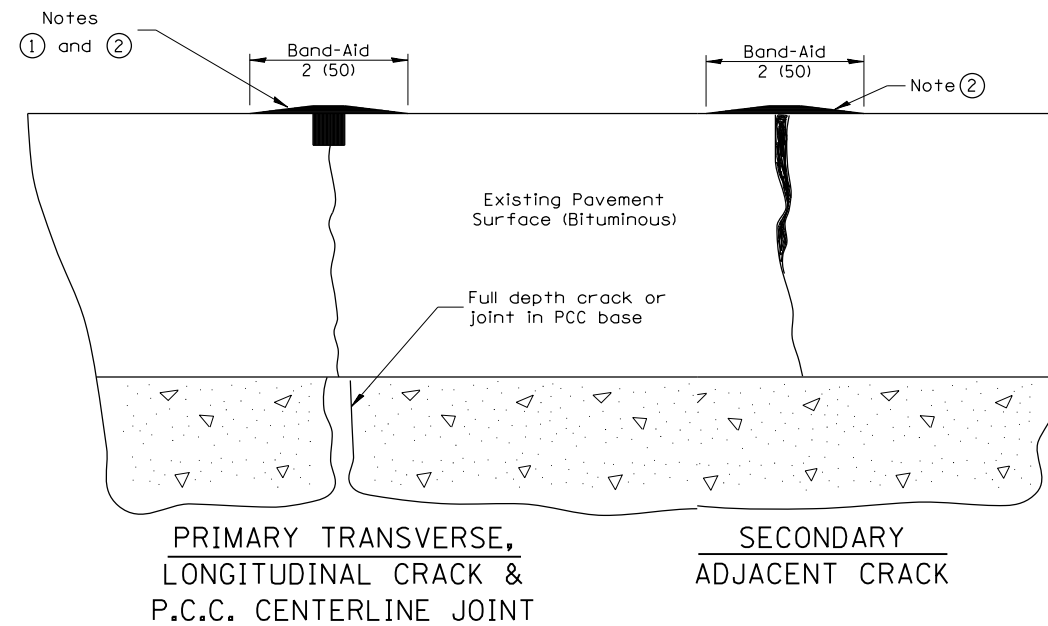
**REPLACEMENT MATERIAL:**



STANDARD EMBANKMENT  
 (IN ACCORDANCE WITH  
 205 OF THE STANDARD SPECIFACATION).

All dimensions are in inches  
 (millimeters) unless otherwise noted.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SLOPE STEPS DETAIL</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SLOPESTEP.DGN						SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	
PLOT SCALE = 40.0000' / in.					CHECKED -	REVISED -	CONTRACT NO.						
PLOT DATE = 5/10/2016					DATE -	REVISED -	ILLINOIS FED. AID PROJECT						



**NOTES**

- ① Route or saw to 3/4 (20) wide by 3/4 (20) deep; (1:1 ratio).
- ② Overfill with sealant; squeegee to provide 2 (50) wide flush "band-aid" effect; feather edges flush.
- ③ Seal flush without "band-aid" effect.
- ④ Route to 1 (25) depth; clean and reface walls.
- ⑤ Route or saw 3/4 (20) wide by variable depth. Depth based upon crack or joint depth and 3/4 (20) minimum sealer over backer rod.

**GENERAL NOTES**

1. Crack and Joint Sealing shall conform to Section 451 and 452.
2. The "Band Aid" width shall be reduced or eliminated in areas adjacent to existing pavement markings.

All dimensions are in INCHES (millimeters) unless otherwise noted.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 1/01/97 T.P.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 6\Standards\Standard\Draw\Detail\400(0A)01.dgn		DRAWN	REVISED - 5/01/97 E.T.
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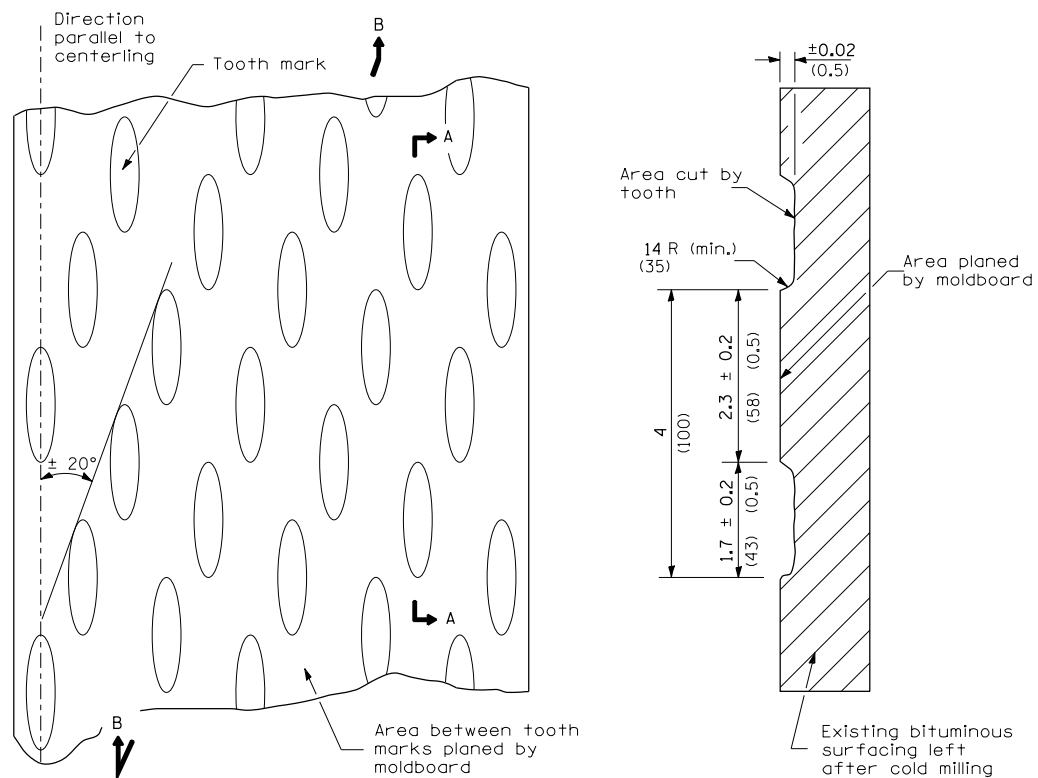
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CRACK AND JOINT SEALING**

SCALE: SHEET OF SHEETS STA. TO STA.

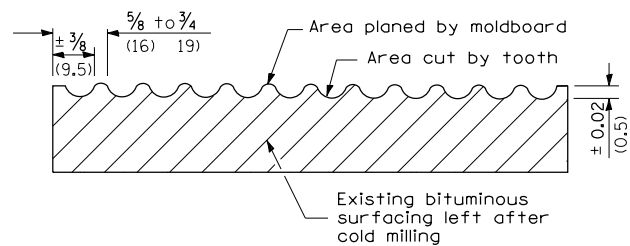
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

### REQUIRED COLD MILLED SURFACE TEXTURE



PLAN

SECTION A-A



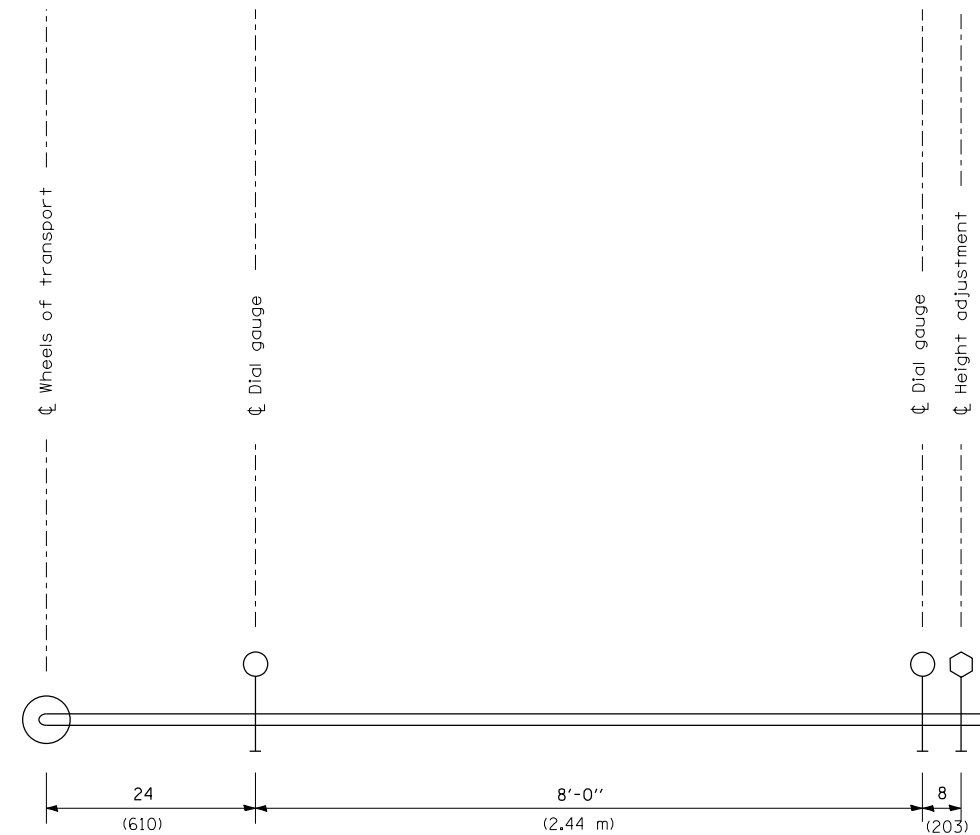
SECTION B-B PROJECTED  
PERPENDICULAR TO CENTERLINE

#### NOTES

1. Cold Milling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

All dimensions are in inches (millimeters) unless otherwise shown.

### SLAB MOVEMENT DETECTION DEVICE



ELEVATION

#### NOTES

Dial gauges shall be spring loaded in order to measure both extension and compression.

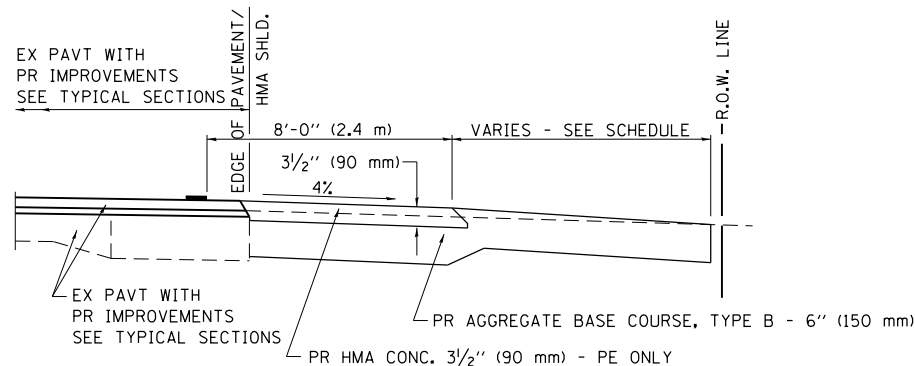
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
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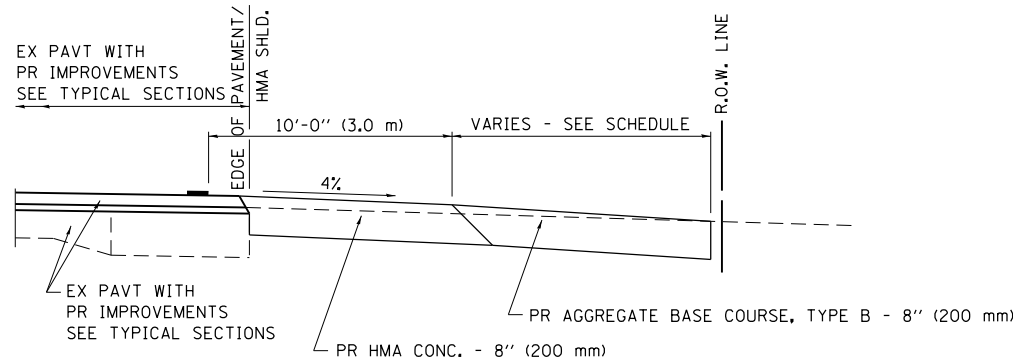
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
										CONTRACT NO.	
ILLINOIS FED. AID PROJECT											

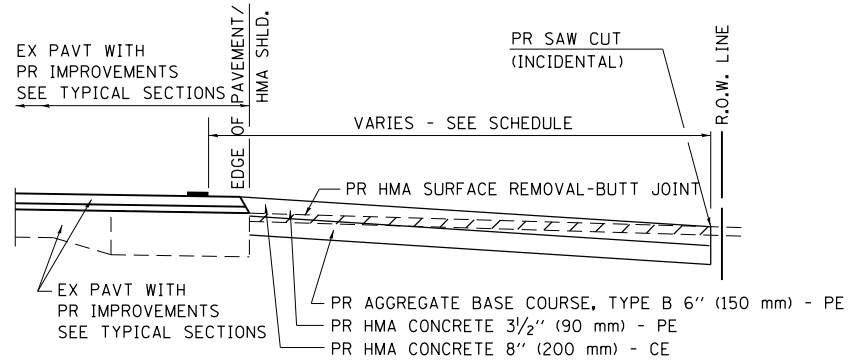




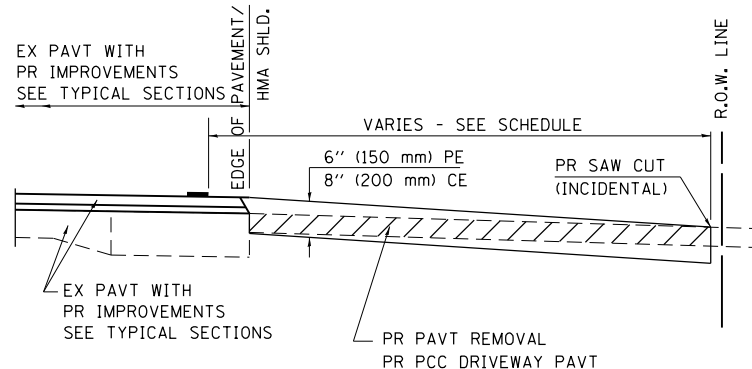
**SECTION A-A FOR EX EARTH/AGGREGATE FE & PE**



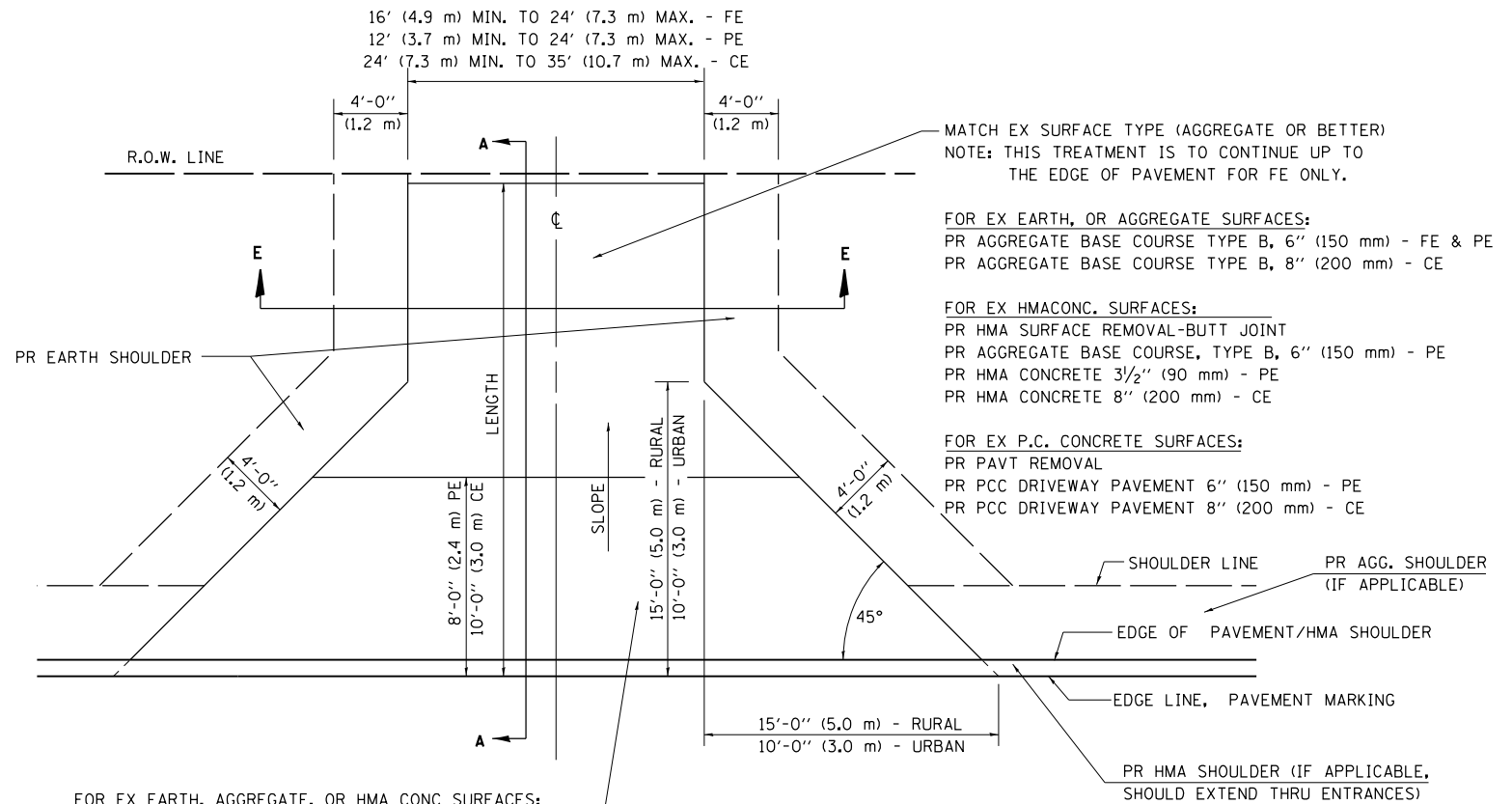
**SECTION A-A FOR EX EARTH/AGGREGATE CE**



**SECTION A-A FOR EX HMA PE & CE**



**SECTION A-A FOR EX P.C. CONC. PE & CE**



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)  
 PR AGGREGATE BASE COURSE TYPE B 6" (150 mm) - FE  
 PR AGGREGATE BASE COURSE TYPE B, 6" (150 mm) &  
 PR HMA CONCRETE 3 1/2" (90 mm) - PE  
 PR HMA CONCRETE 8" (200 mm) - CE

FOR P.C. CONCRETE SURFACES:  
 PR PAVT REMOVAL  
 PR PCC DRIVEWAY PAVT 6" (150 mm) - PE  
 PR PCC DRIVEWAY PAVT 8" (200 mm) - CE

MATCH EX SURFACE TYPE (AGGREGATE OR BETTER)  
 NOTE: THIS TREATMENT IS TO CONTINUE UP TO  
 THE EDGE OF PAVEMENT FOR FE ONLY.

FOR EX EARTH, OR AGGREGATE SURFACES:  
 PR AGGREGATE BASE COURSE TYPE B, 6" (150 mm) - FE & PE  
 PR AGGREGATE BASE COURSE TYPE B, 8" (200 mm) - CE

FOR EX HMA/CONC. SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT  
 PR AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) - PE  
 PR HMA CONCRETE 3 1/2" (90 mm) - PE  
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX P.C. CONCRETE SURFACES:  
 PR PAVT REMOVAL  
 PR PCC DRIVEWAY PAVEMENT 6" (150 mm) - PE  
 PR PCC DRIVEWAY PAVEMENT 8" (200 mm) - CE

**GENERAL NOTES:**

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN INCHES ( MILLIMETERS ) UNLESS OTHERWISE SHOWN.

**SECTION E - E ENTRANCE TYPICAL SECTION**

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 2/19/03 (JCN)
ENT 3R.DGN		CHECKED - JCN	REVISED - 4/01/04 (JCN)
		DATE - FEBRUARY 23, 1999	REVISED - 8/01/07 (JCN)
			REVISED - 01/2013

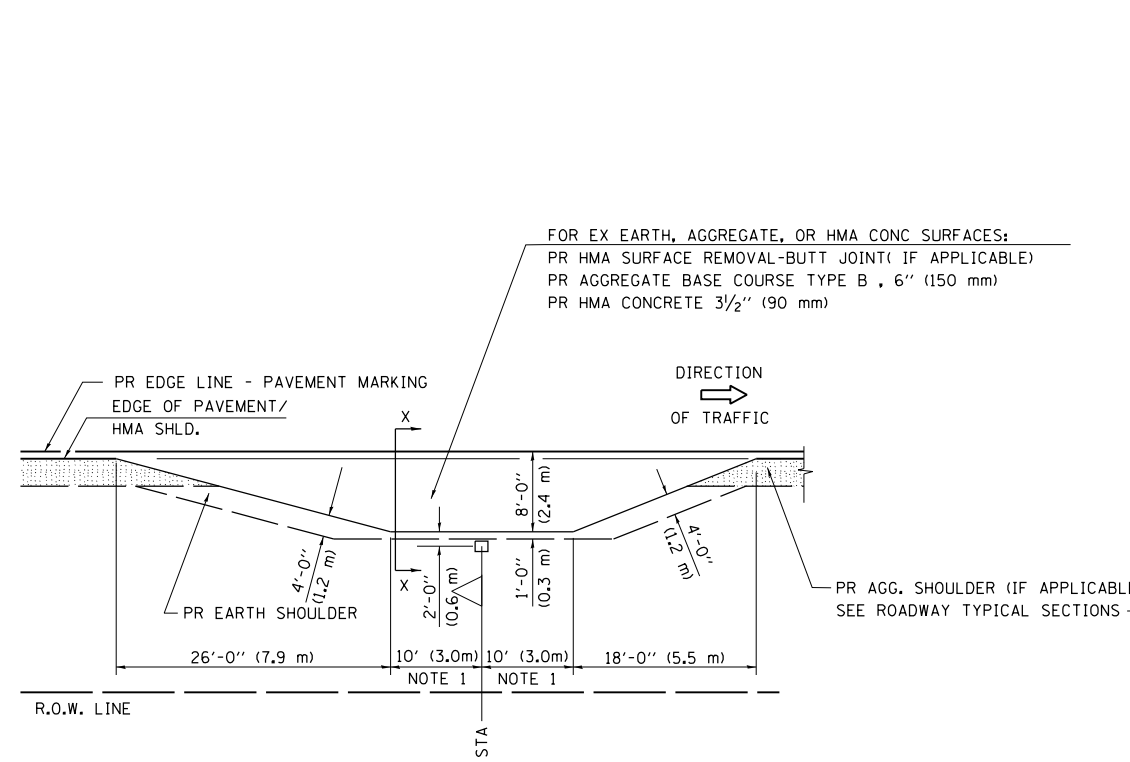
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 6 DETAILS FOR RURAL /URBAN ENTRANCE &  
MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)**

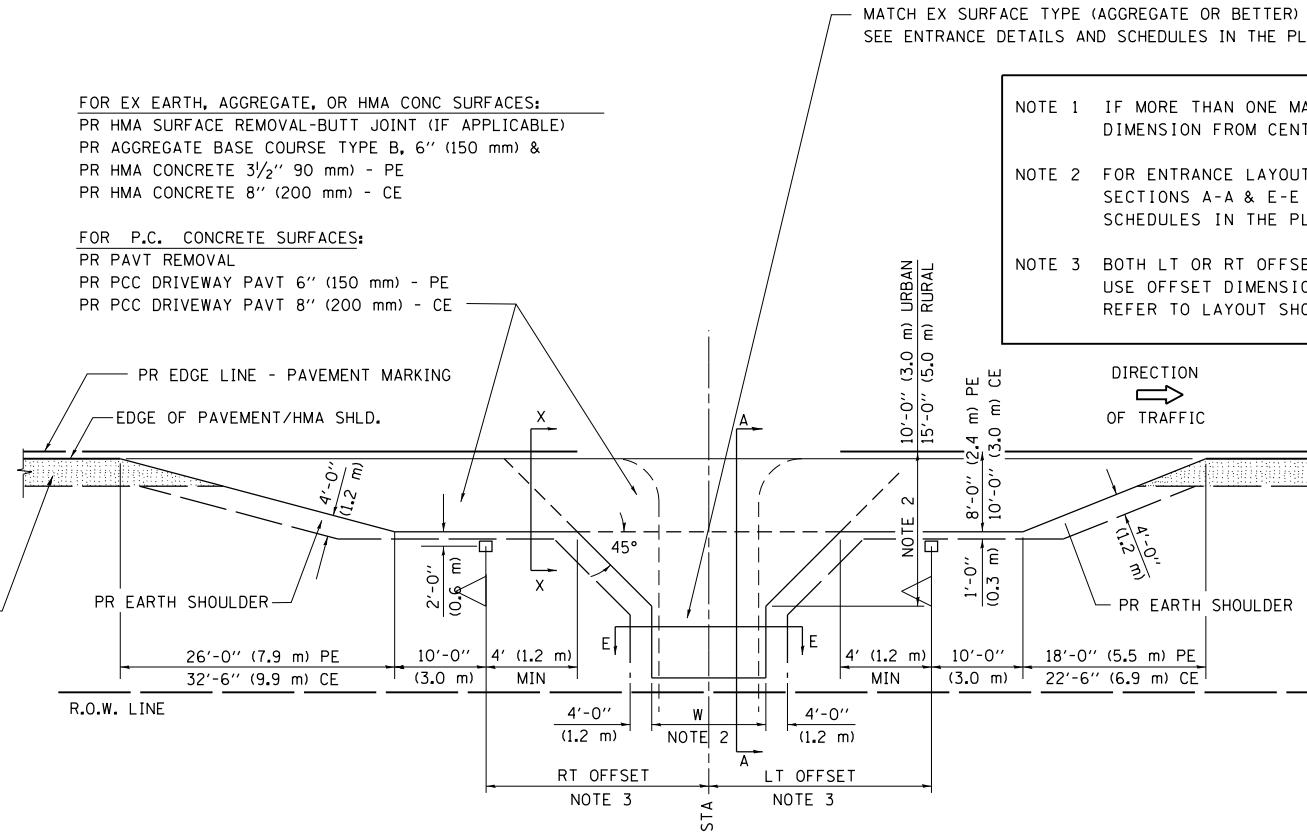
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**DETAILS OF MAILBOX TURNOUTS**



**PLAN - MAILBOX TURNOUTS**

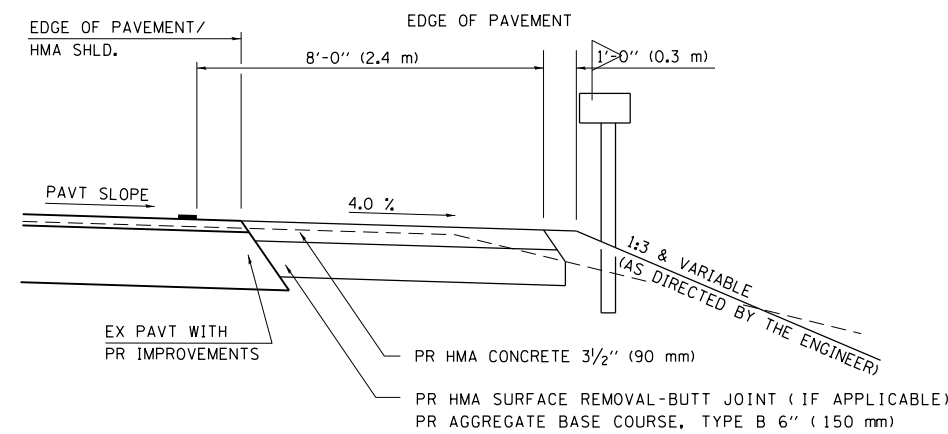


**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**

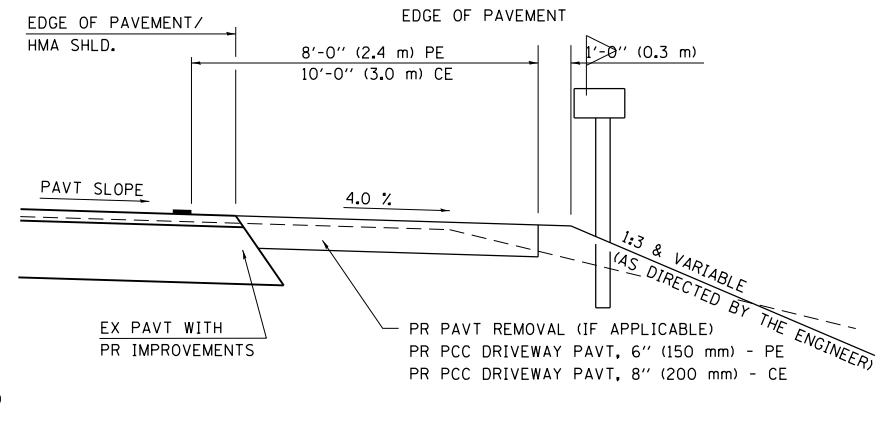
NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

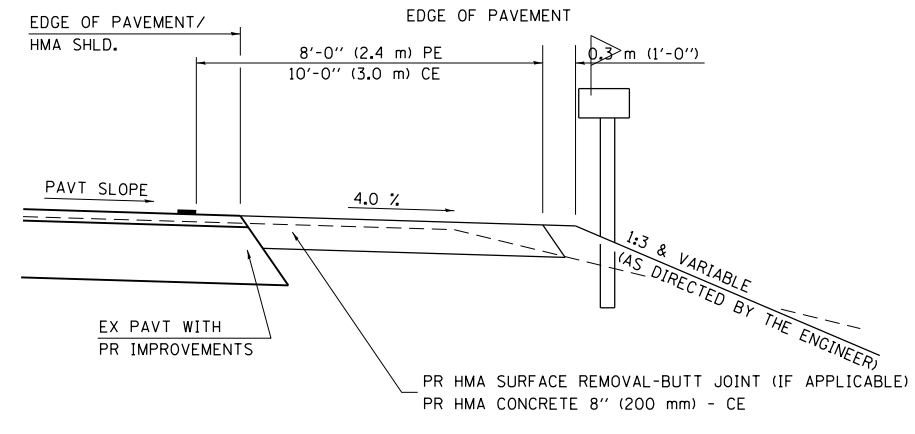
NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.



**SECTION X-X THRU MAILBOX TURNOUT ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH EX EARTH, AGGREGATE, OR HMA PE & FE**



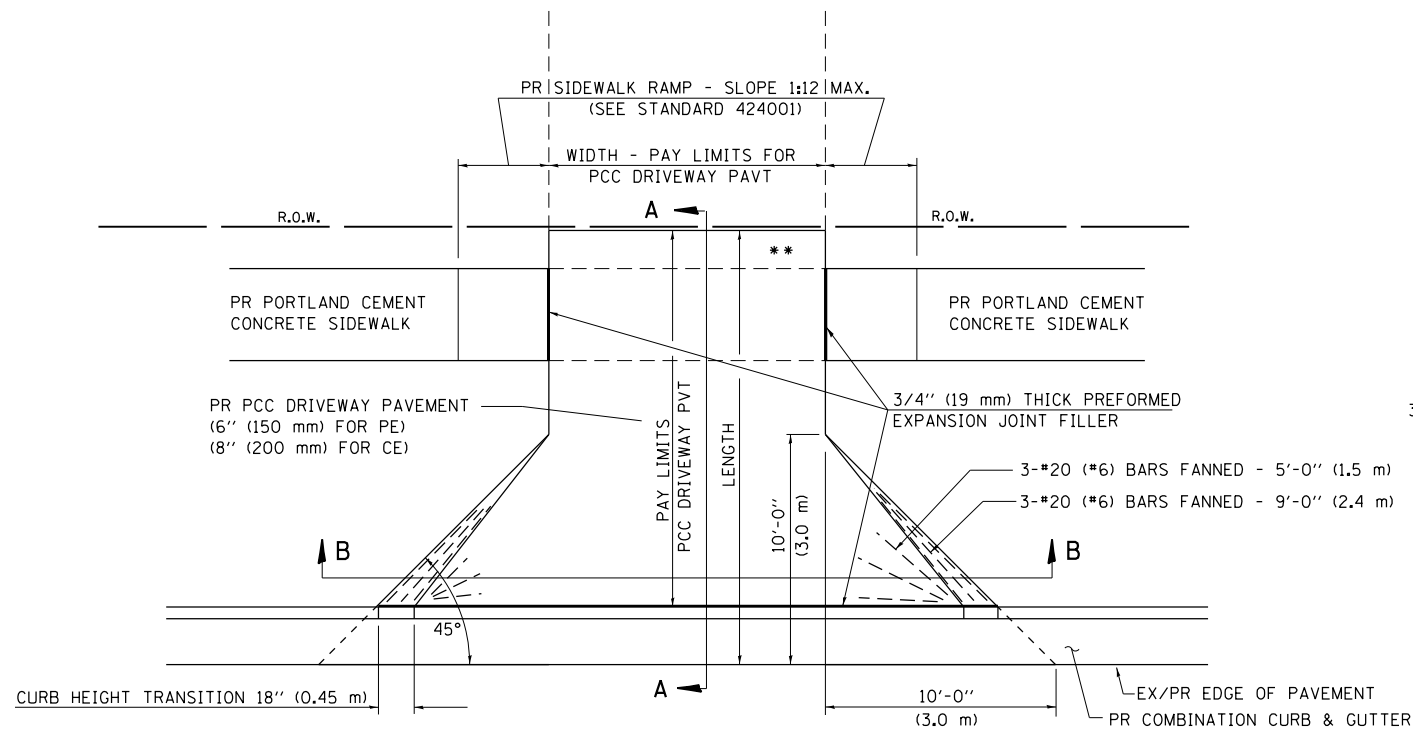
**SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX CONC PE OR CE**



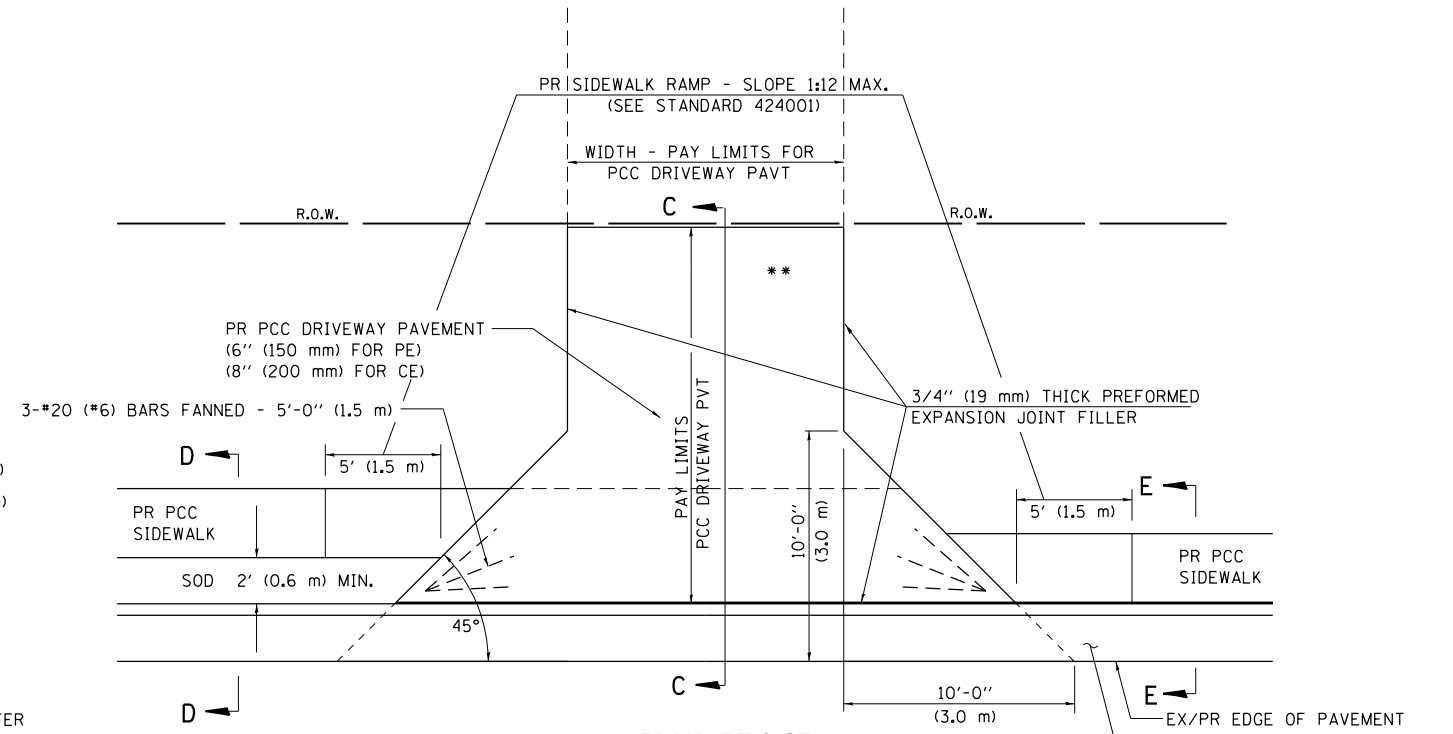
**SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX EARTH, AGGREGATE, OR HMA CE**

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 2/19/03 (JCN)	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 6 DETAILS FOR RURAL/URBAN ENTRANCE &amp; MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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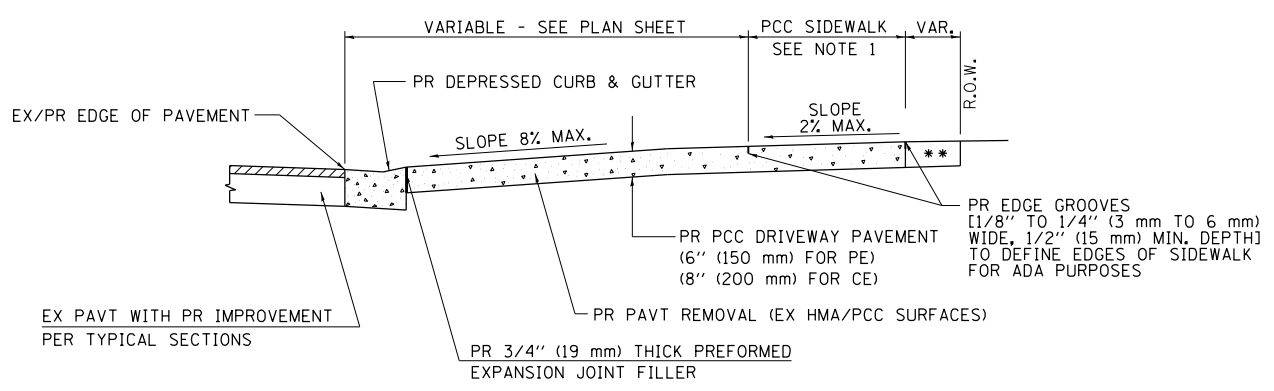




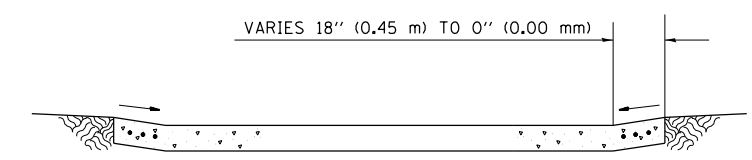
**PLAN - PE & CE**



**PLAN - PE & CE (SIDEWALK ADJACENT TO CURB)**



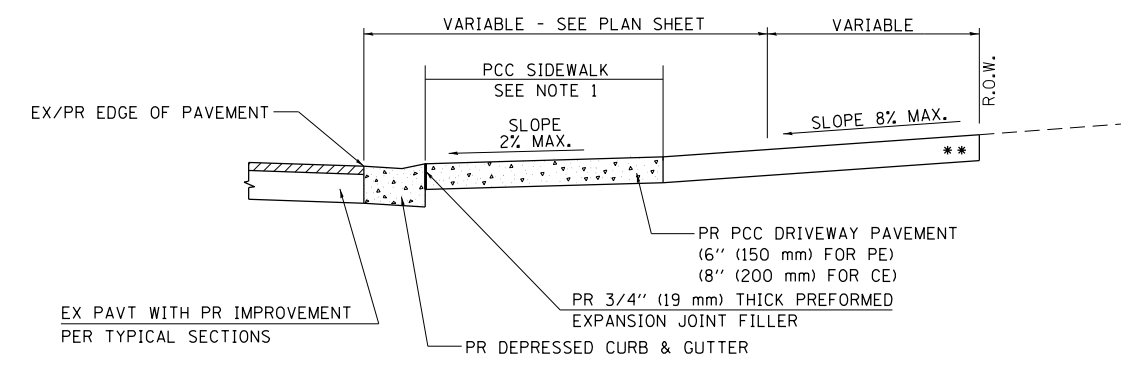
**SECTION A - A**



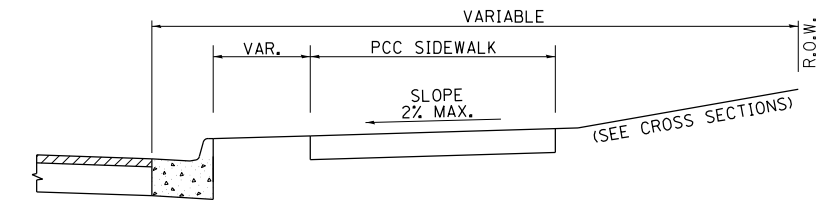
**SECTION B - B**

- NOTES:
- SEE PLAN SHEET / ENTRANCE PROFILE FOR LOCATION OF SIDEWALK.
  - THE COST OF FURNISHING AND INSTALLING THE 3/4" (19 mm) PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT.

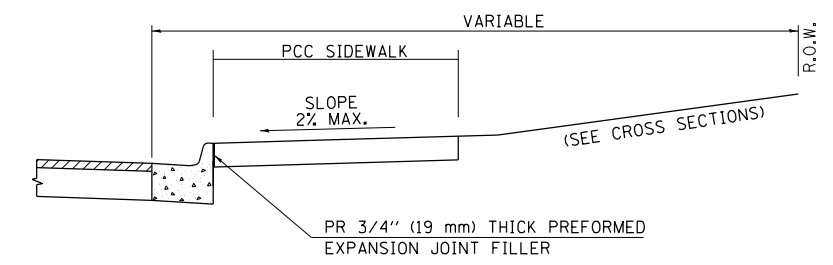
- \*\* MATCH IN KIND BEHIND SIDEWALK FOR EX EARTH OR AGGREGATE SURFACES :
- PR AGGREGATE BASE COURSE, TYPE B 6" (150 mm) - PE/FE
  - PR PCC DRIVEWAY PAVT. 8" (200 mm) - CE
- FOR EX HMA CONC. SURFACES :
- PR HMA CONCRETE 6" (150 mm) - PE
  - PR HMA CONCRETE 8" (200 mm) - CE
- FOR EX PCC SURFACES :
- PR PCC DRIVEWAY PAVT. 6" (150 mm) - PE
  - PR PCC DRIVEWAY PAVT. 8" (200 mm) - CE
- NOTE : IN AREAS WITH NO SIDEWALK, MATCH IN KIND BEHIND 10'-0" (3.0 m) FLARE



**SECTION C - C**



**SECTION D - D**



**SECTION E - E**

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 2/19/03 (JCN)
pw:\11084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard Details\400\GAD\Dr...c&g.dgn		DRAWN	REVISED - 4/01/04 (JCN)
ENT 3R C&G.DGN	PLOT SCALE = 48.000' / in.	CHECKED - JCN	REVISED -
Default	PLOT DATE = 5/10/2016	DATE - MARCH 17, 2000	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

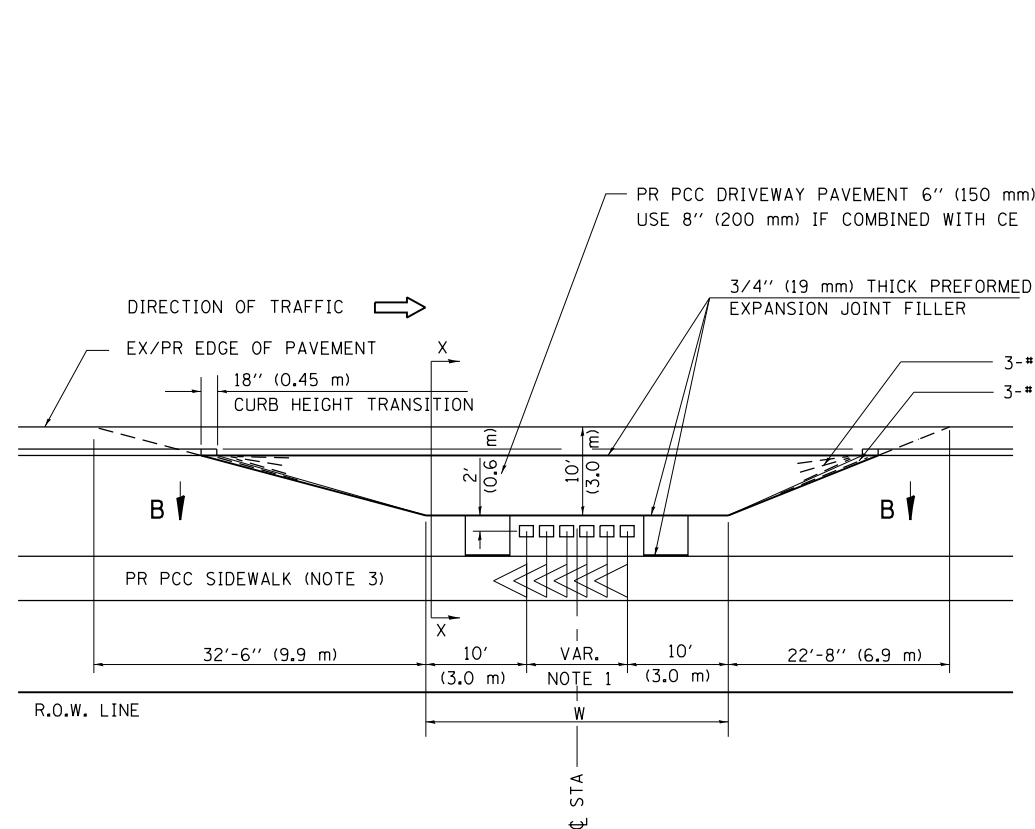
**DISTRICT 6 DETAILS FOR ENTRANCE & MAILBOX  
TURNOUT IN CURB & GUTTER SECTION (3R - PROJECTS)**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

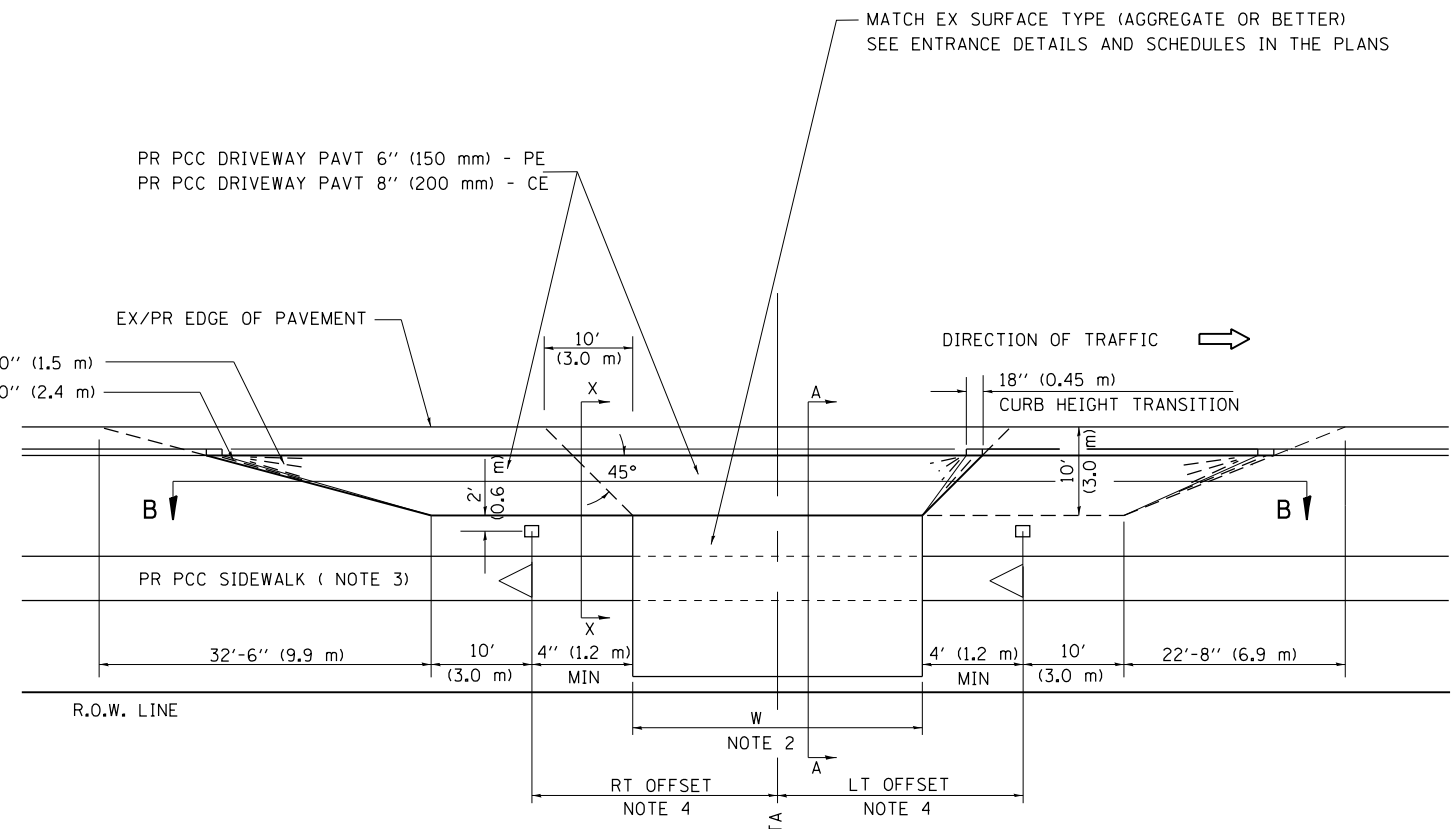
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

## DETAILS OF MAILBOX TURNOUTS

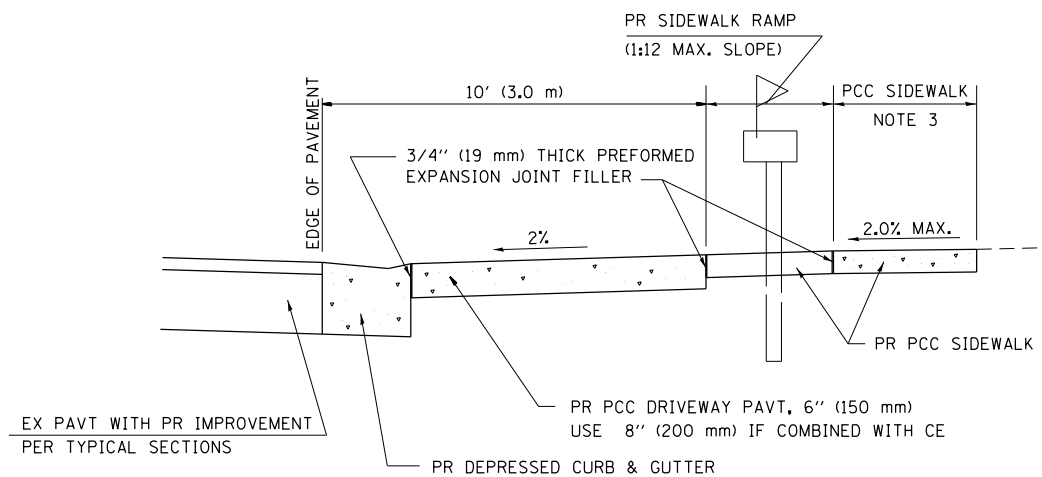
NOTE : ONLY REQUIRED FOR TWO-LANE AND THREE LANE SECTIONS OF ROADWAYS



**PLAN - URBAN MULTIPLE MAILBOX TURNOUT**



**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**

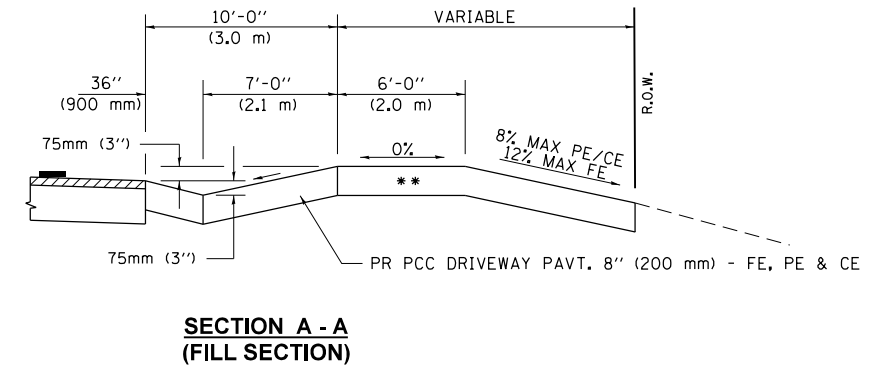
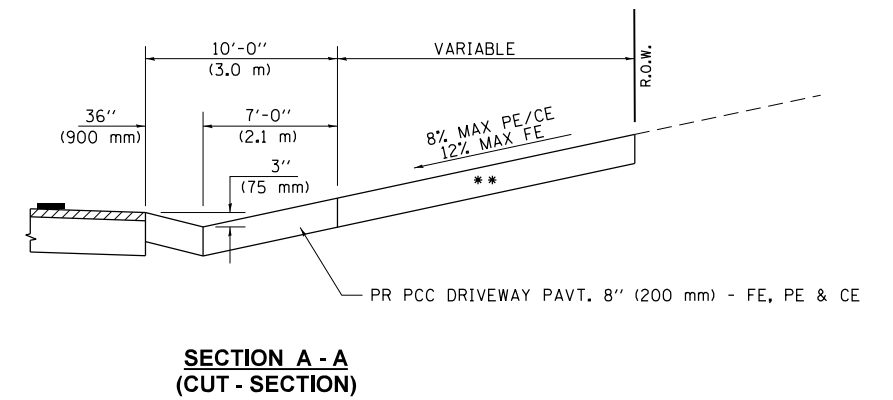
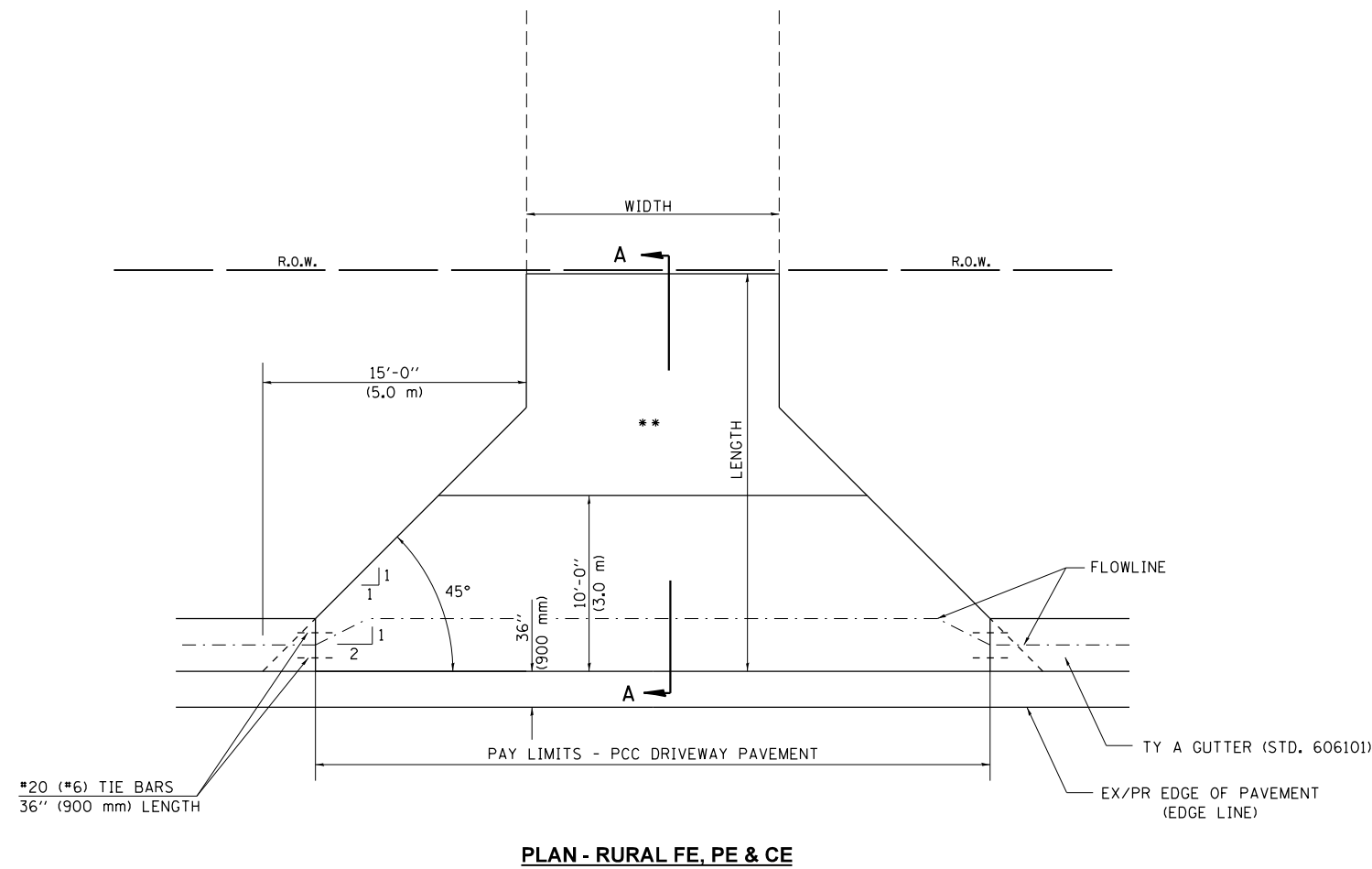


**SECTION X-X THRU MAILBOX TURNOUT**

- NOTE 1 DIMENSION = (NUMBER OF MAILBOX - 1) TIMES 2' (0.6 m)
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 SEE PLAN LAYOUT SHEET FOR SIDEWALK LOCATION.
- NOTE 4 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED - 2/19/03 (JCN)	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 6 DETAILS FOR ENTRANCE &amp; MAILBOX TURNOUT IN CURB &amp; GUTTER SECTION (3R - PROJECTS)</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ENT 3R C&G.DGN	PLT SCALE = 40.000' / in.	CHECKED - JCN	REVISED -			CONTRACT NO.					
	DATE = 5/10/2016	DATE - FEBRUARY 23, 1999	REVISED -			ILLINOIS FED. AID PROJECT					





- \*\* MATCH IN KIND BEHIND SIDEWALK  
 FOR EX EARTH OR AGGREGATE SURFACES :  
 PR AGGREGATE BASE COURSE, TYPE B 6" (150 mm) - PE/FE  
 PR PCC DRIVEWAY PAVT. 8" (200 mm) - CE
- FOR EX HMA CONC. SURFACES :  
 PR HMA CONCRETE 6" (150 mm) - PE  
 PR HMA CONCRETE 8" (200 mm) - CE
- FOR EX PCC SURFACES :  
 PR PCC DRIVEWAY PAVT. 6" (150 mm) - PE  
 PR PCC DRIVEWAY PAVT. 8" (200 mm) - CE

NOTES:

- SEE PLAN SHEET / ENTRANCE PROFILE FOR LOCATION OF SIDEWALK.
- THE COST OF FURNISHING AND INSTALLING THE 19 mm PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - JCN 2/19/03
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\400 GAD\Dr. tag.dgn		DRAWN -	REVISED - 01/2013
ENT 3R TAG.DGN		CHECKED - JCN	REVISED -
	PLOT DATE = 5/10/2016	DATE - FEBRUARY 15, 1999	REVISED -

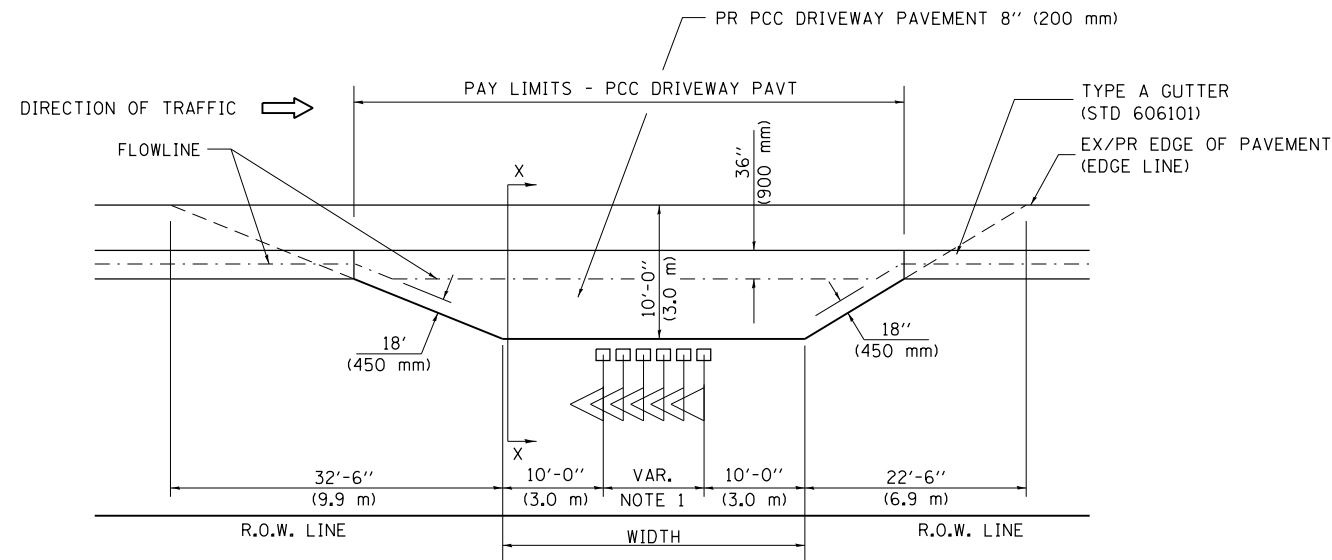
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DIST. 6 DETAILS FOR RURAL ENTRANCE & MAILBOX  
 TURNOUT IN STD. TYPE A GUTTER SECT. (3R - PROJ.)

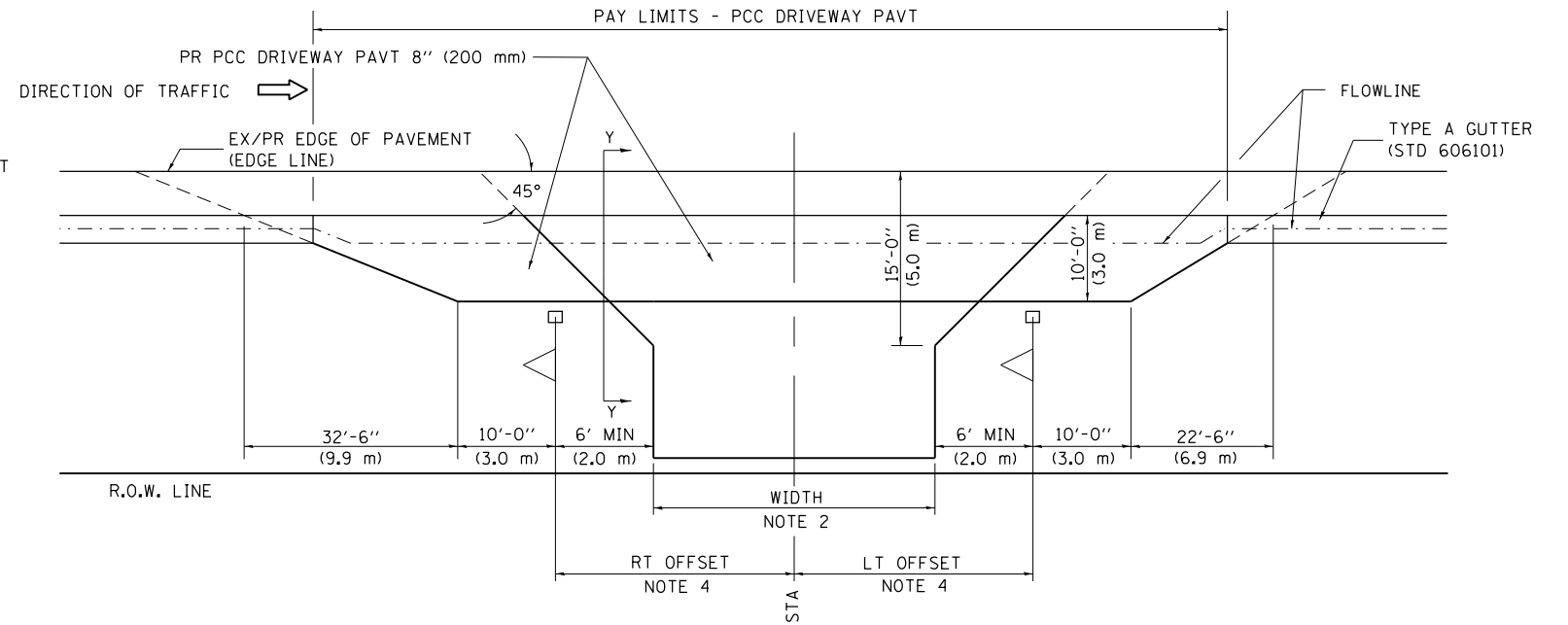
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				

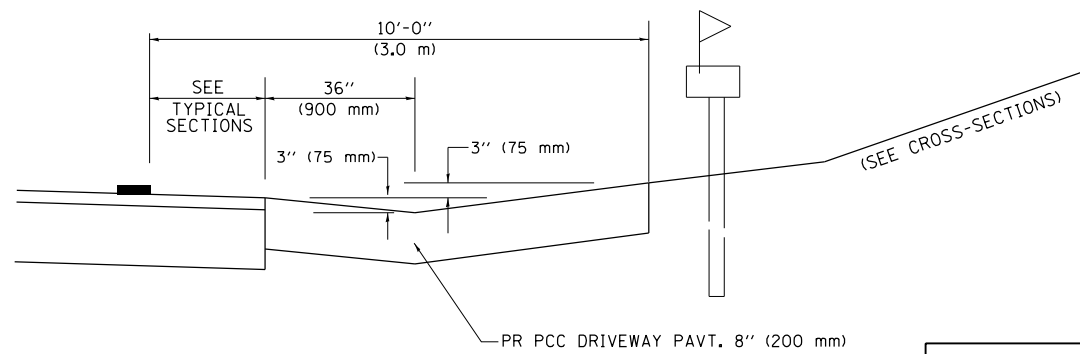
DETAILS OF MAILBOX TURNOUTS



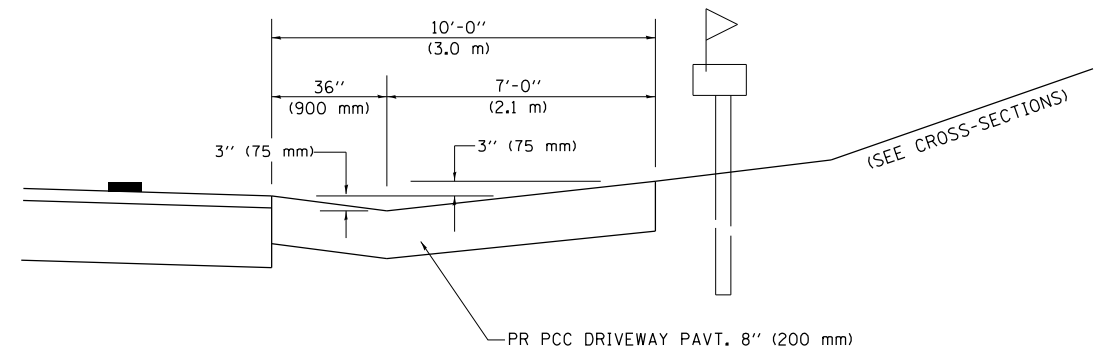
**PLAN - RURAL MULTIPLE MAILBOX TURNOUT**



**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**



**SECTION X-X THRU MAILBOX TURNOUT**



**SECTION Y-Y THRU MAILBOX TURNOUT**

NOTE 1 DIMENSION = (NUMBER OF MAILBOX - 1) TIMES 2' - 0" (0.6 m)

NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

NOTE 4 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - JCN 2/19/03
p:\1\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\IDOT Offices\District 6\Standards\Std\Draw\Detail\400\GAD\Dr_tag.dgn		CHECKED - JCN	REVISED - 01/2013
Default	PLOT SCALE = 40.000' / in.	DATE - FEBRUARY 23, 1999	REVISED -
ENT 3R TAG.DGN	PLOT DATE = 5/10/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

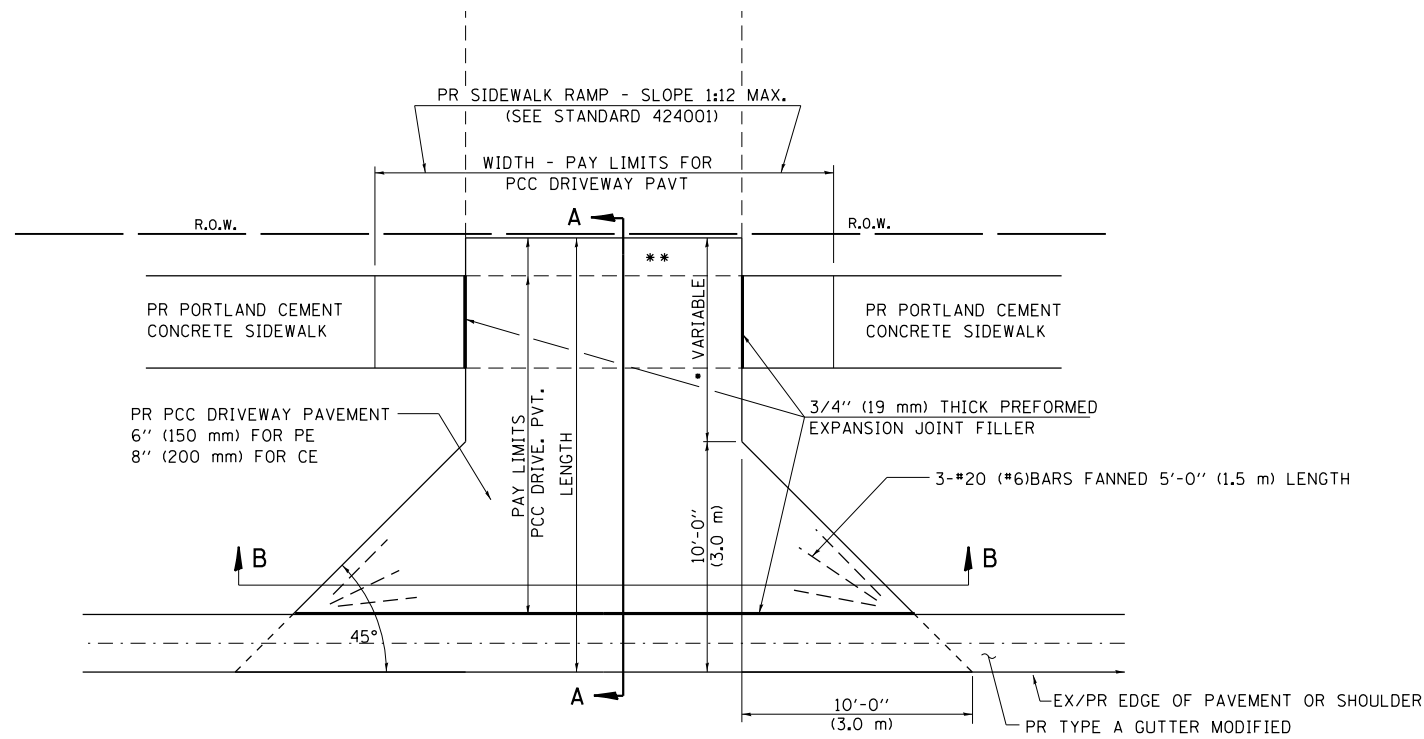
**DIST. 6 DETAILS FOR RURAL ENTRANCE & MAILBOX  
TURNOUT IN STD. TYPE A GUTTER SECT. (3R - PROJ.)**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				







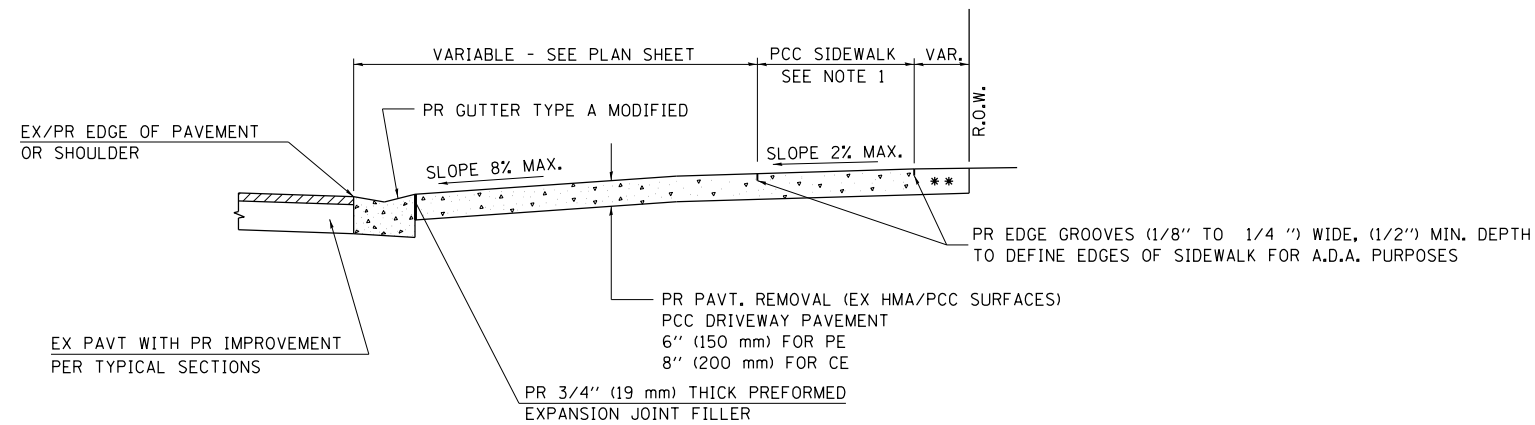
**PLAN - URBAN PE & CE**

\*\* MATCH IN KIND BEHIND SIDEWALK  
 FOR EX EARTH OR AGGREGATE SURFACES :  
 PR AGGREGATE BASE COURSE, TYPE B 6" (150 mm) - PE/FE  
 PR PCC DRIVEWAY PAVT. 8" (200 mm) - CE

FOR EX HMA CONC. SURFACES :  
 PR HMA CONCRETE 6" (150 mm) - PE  
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX PCC SURFACES :  
 PR PCC DRIVEWAY PAVT. 6" (150 mm) - PE  
 PR PCC DRIVEWAY PAVT. 8" (200 mm) - CE

• NOTE : IN AREAS WITH NO SIDEWALK, MATCH IN KIND BEHIND 10' (3.0 m) FLARE



**SECTION A - A**

**NOTES:**

1. SEE PLAN SHEET / ENTRANCE PROFILE FOR LOCATION OF SIDEWALK.
2. THE COST OF FURNISHING AND INSTALLING THE 3/4" (19 mm) PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - JCN 10/20/03
ENT 3R TAG M.DGN	Documents\DOT Offices\District 6\Standards\Standard Details\400-CADD\ent_3r_tag.m.dgn	CHECKED - JCN	REVISED -
	PLOT SCALE = 40.000' / in.	DATE - FEBRUARY 23, 1999	REVISED -
	PLOT DATE = 5/10/2016		REVISED -

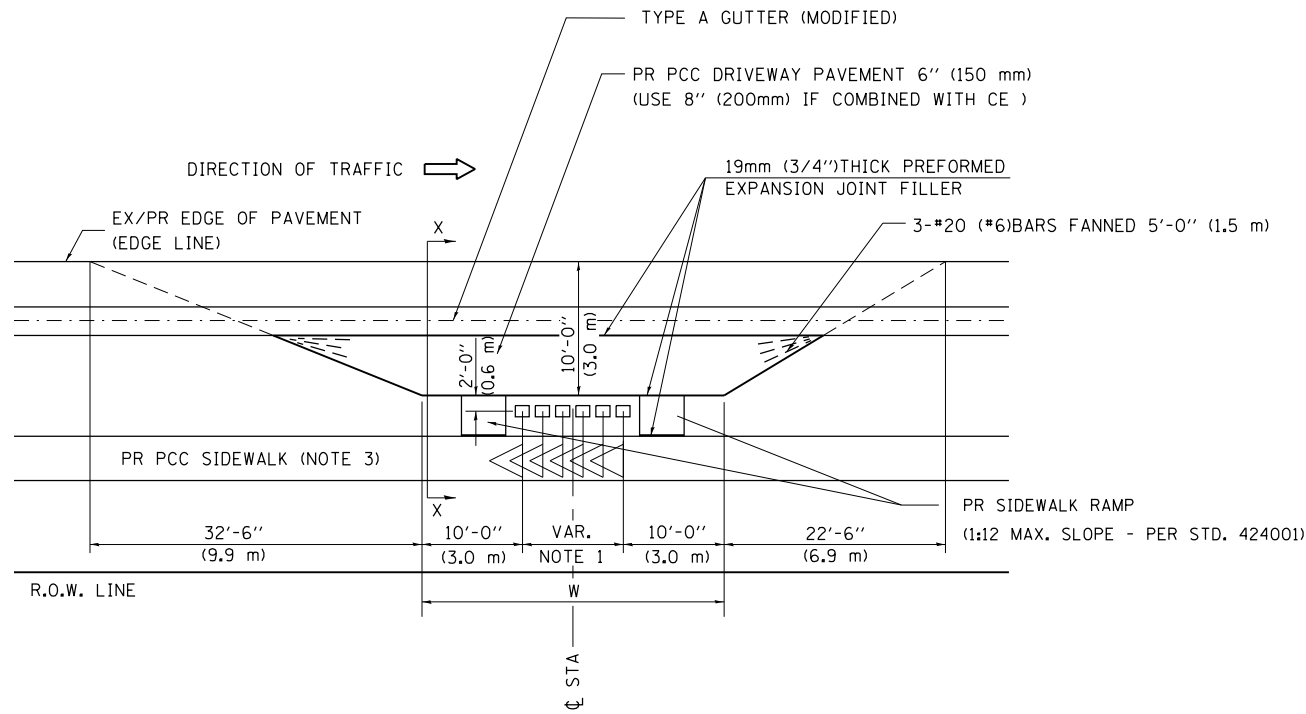
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DIST. 6 DETAILS FOR ENTRANCE & MAILBOX TURNOUT  
 IN TYPE A GUTTER MODIFIED SECT. (3R PROJ.)**

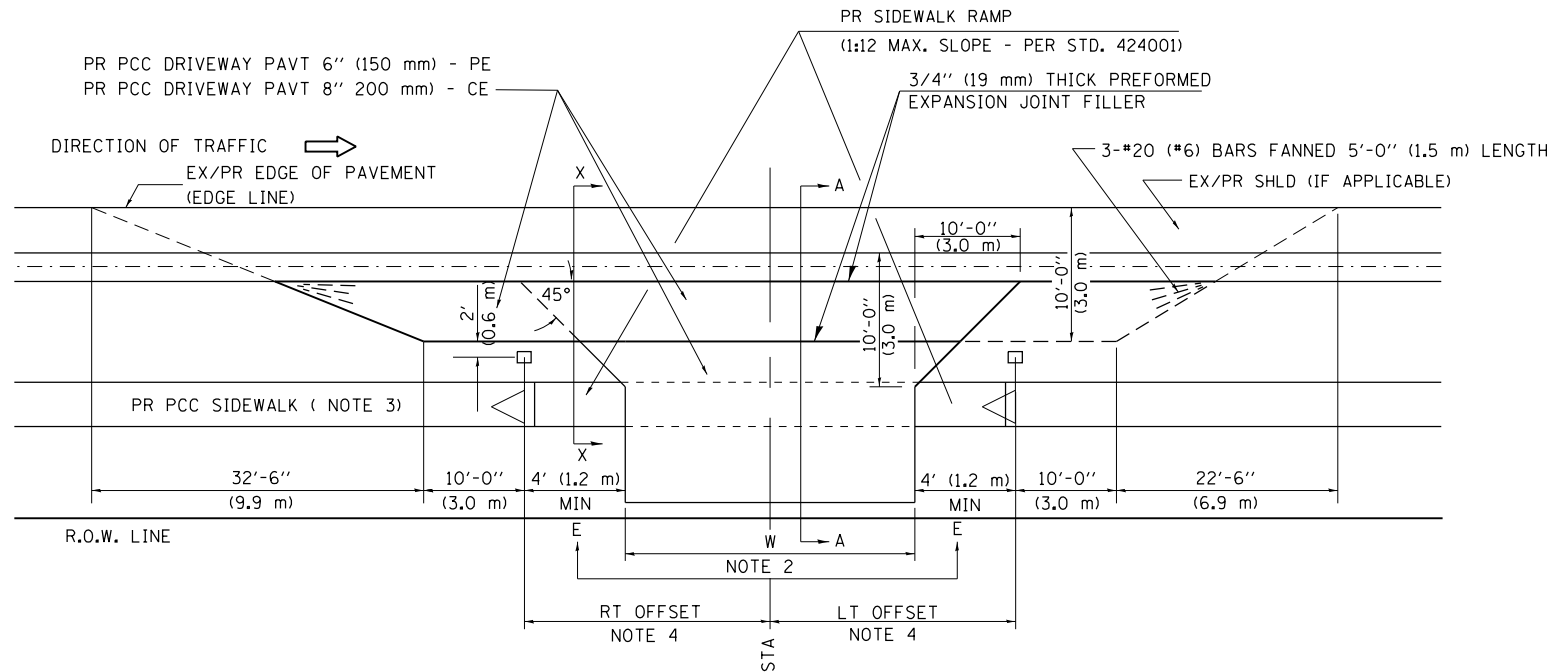
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				

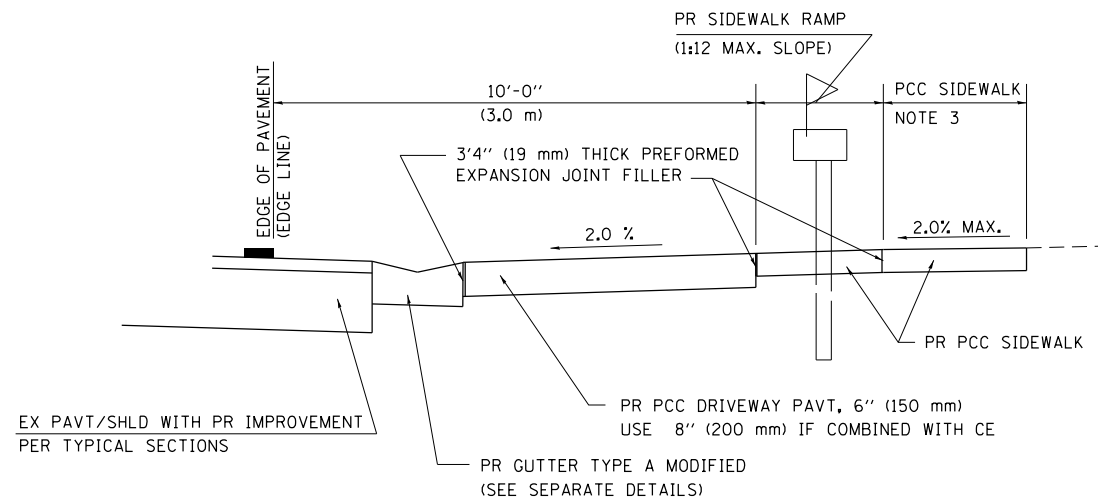
**DETAILS OF MAILBOX TURNOUTS**



**PLAN - URBAN MULTIPLE MAILBOX TURNOUT**



**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**

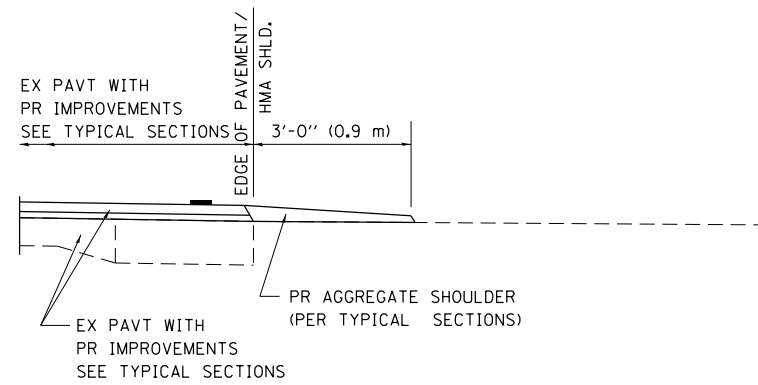


**SECTION X-X THRU MAILBOX TURNOUT**

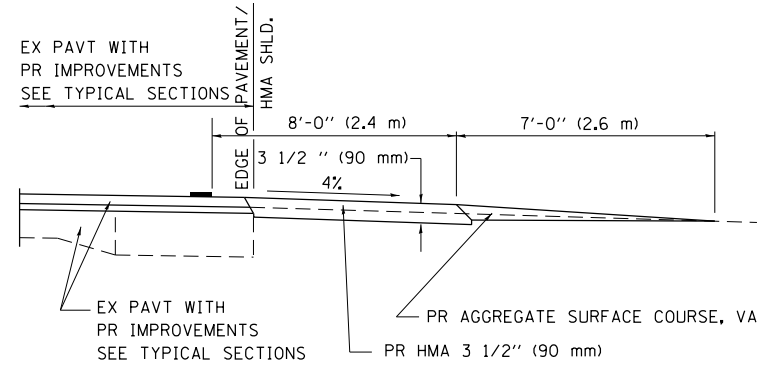
- NOTE 1 DIMENSION = (NUMBER OF MAILBOX - 1) TIMES 2' (0.6 m)
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 SEE PLAN LAYOUT SHEET FOR SIDEWALK LOCATION.
- NOTE 4 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - JCN 10/20/03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIST. 6 DETAILS FOR ENTRANCE &amp; MAILBOX TURNOUT IN TYPE A GUTTER MODIFIED SECT. (3R PROJ.)</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ENT 3R TAG M.DGN	PLOT SCALE = 40.000' / in.	CHECKED - JCN	REVISED -			SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.			CONTRACT NO.		
	PLOT DATE = 5/10/2016	DATE - FEBRUARY 23, 1999	REVISED -			ILLINOIS FED. AID PROJECT					

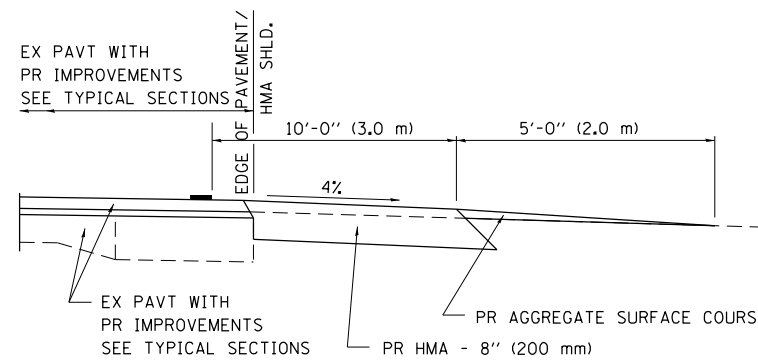




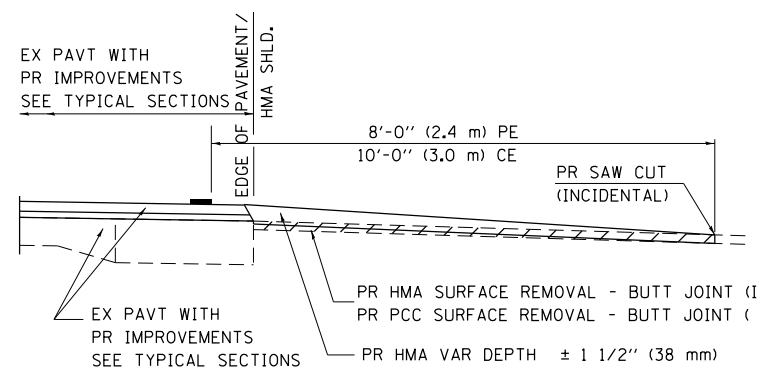
**SECTION A-A FOR EX EARTH/ AGGREGATE FE**



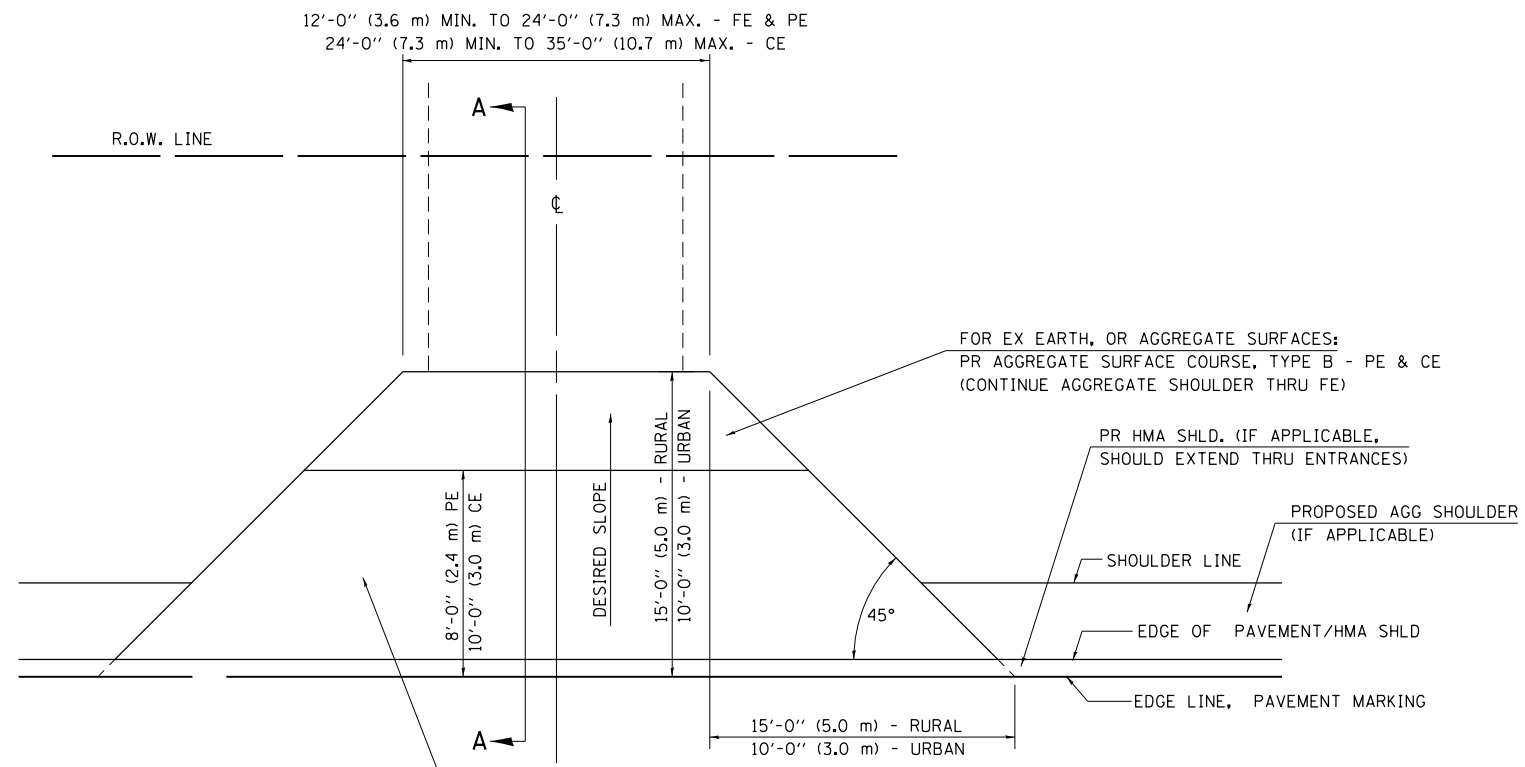
**SECTION A-A FOR EX EARTH/AGGREGATE PE**



**SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD**



**SECTION A-A FOR EX HMA/ PC CONCRETE PE, CE & SIDE ROAD**



FOR EX EARTH OR AGGREGATE SURFACES:  
 PR HMA SURFACE REMOVAL (IF APPLICABLE)  
 PR AGGREGATE SHOULDER THRU - FE  
 PR HMA CONCRETE 3 1/2" (90 mm) - PE  
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX HMA CONCRETE SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:  
 PR PCC SURFACE REMOVAL-BUTT JOINT

**GENERAL NOTES:**

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

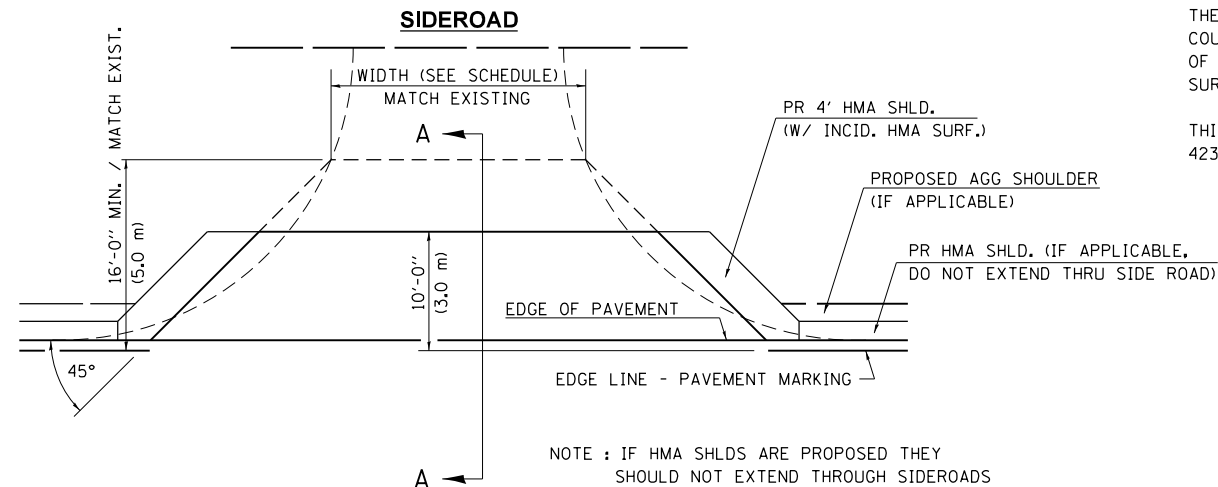
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN INCHES ( MILLIMETERS ) UNLESS OTHERWISE SHOWN.



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 2/19/03 JCN
ENT PPP.DGN		CHECKED - JCN	REVISED - 4/01/04 JCN
		DATE - FEBRUARY 23, 1999	REVISED -

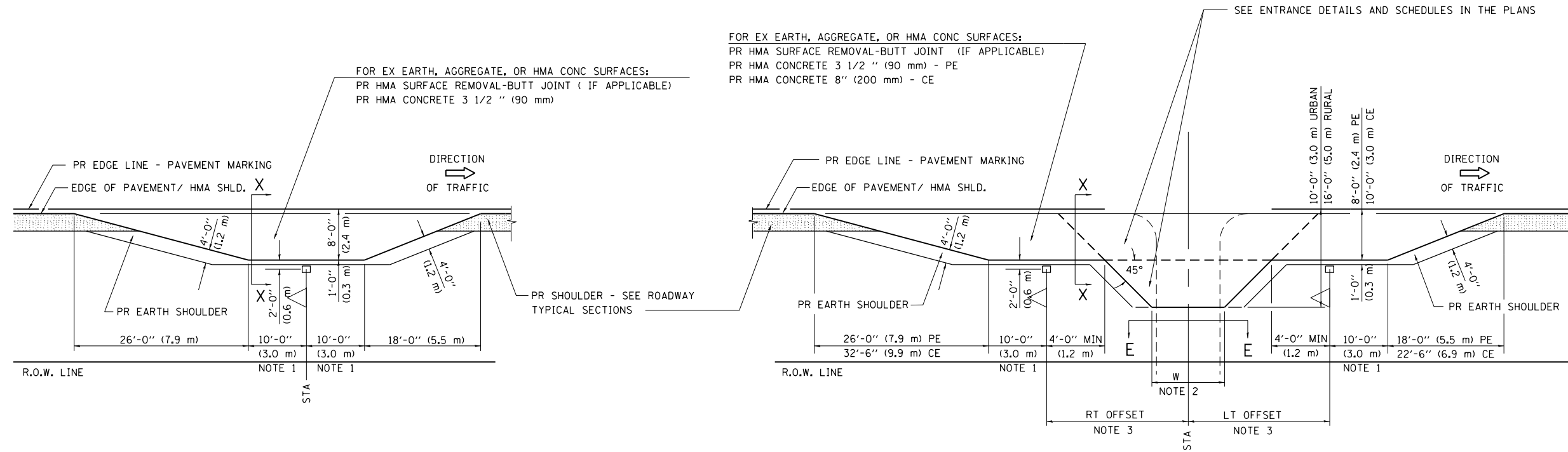
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DIST.6 DETAILS FOR RURAL/URBAN ENT., MAILBOX  
 TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

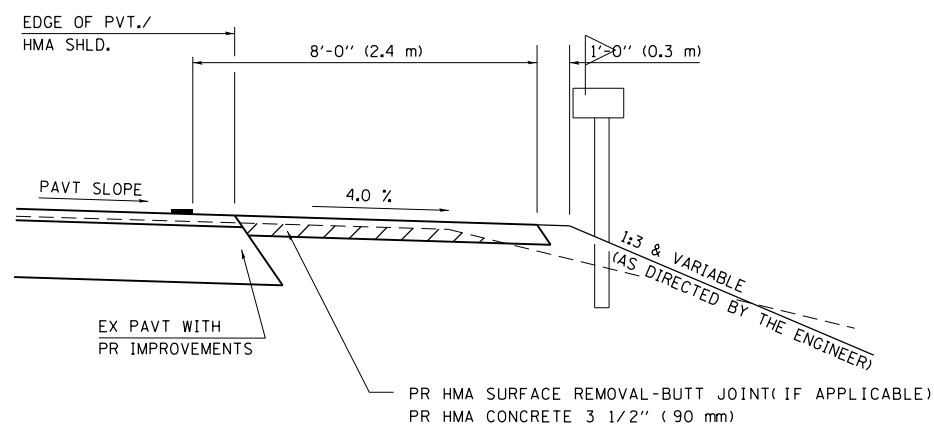
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

# DETAILS OF MAILBOX TURNOUTS



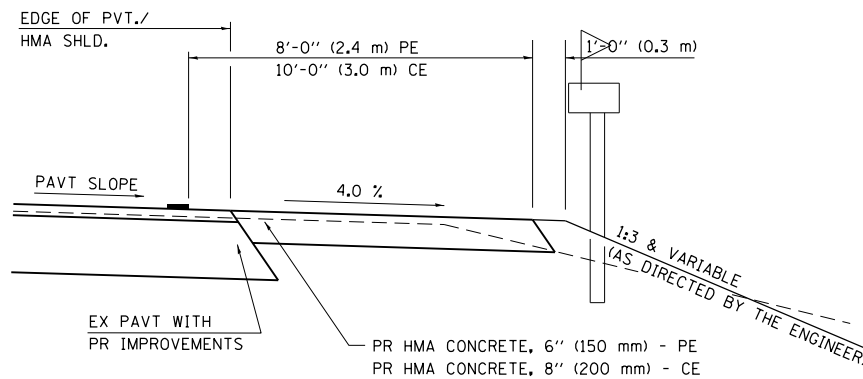
**PLAN - MAILBOX TURNOUTS**

**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**



**SECTION X-X THRU MAILBOX TURNOUT  
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH  
EX EARTH, AGGREGATE, OR HMA PE & FE**

( DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.  
IF EXISTING, TREAT SAME AS ENTRANCE. )



**SECTION X-X THRU MAILBOX TURNOUT  
COMBINED WITH EX HMA CONC & PC CONC PE & CE**

( DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.  
IF EXISTING, TREAT SAME AS ENTRANCE. )

- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

ALL DIMENSIONS ARE IN INCHES ( MILLIMETERS )  
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 2/19/03 JCN
ENT PPP.DGN		CHECKED - JCN	REVISED - 4/01/04 JCN
		DATE - FEBRUARY 23, 1999	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIST.6 DETAILS FOR RURAL/URBAN ENT., MAILBOX  
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

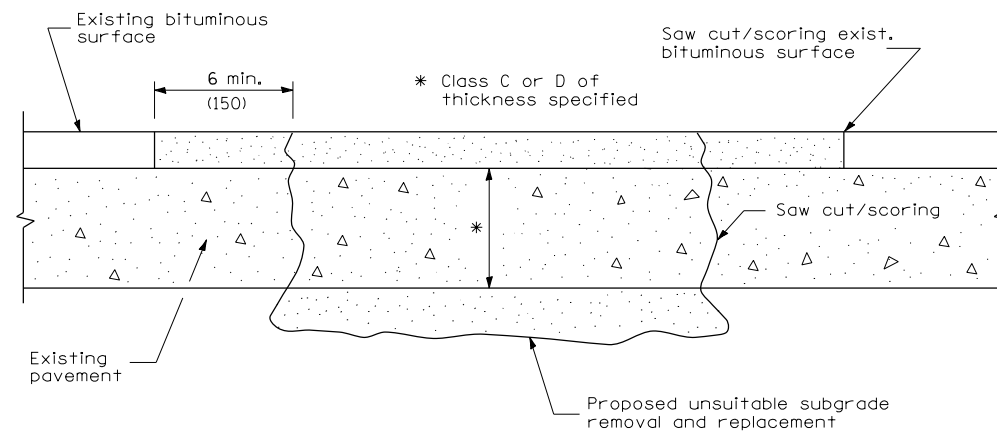
ENTRANCE IMPROVEMENT SCHEDULE FOR RURAL / URBAN "PPP" PROJECTS															
LOCATION ( LT / RT ) ( STA ) ( + )	TYPE OF ENTRANCE ( FE / PE / CE / MB ) ( RURAL / URBAN )	EX MATERIAL TYPE ( EARTH / AGG. / HMA / P. C. C. )	WIDTH FOOT	RT OFFSET FOOT	LT OFFSET FOOT	LENGTH ( FROM EDGE OF PVT/ HMA SHLD TO LIMITS OF IMPROVEMENT ) FOOT	PR HMA CONC. THICKNESS INCH	HMA SURF. REM. - BUTT JOINT SQ. YD.	P. C. C. SURF. REM. - BUTT JOINT SQ. YD.	PREP OF BASE SQ. YD.	AGG. BASE REPAIR TON	AGGREGATE SURFACE COURSE TY - B TON	HMA ( P. C. ) TON	AGG ( P. C. ) TON	INCIDENTAL HMA SURF. TON
TOTAL =															

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED - 2/19/03 JCN
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ENT PPP.DGN		CHECKED - JCN	REVISED -
		DATE - FEBRUARY 23, 1999	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX  
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					CONTRACT NO.		
ILLINOIS FED. AID PROJECT							



SEQUENCE OF CONSTRUCTION

1. Remove the existing bituminous surface.
2. Remove and replace full depth patches.
3. Replace bituminous surface.

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

GENERAL NOTES

1. The width of the full depth patch over a trench shall be 12 (300) wider on each side of the trench.
2. For basis of payment see Special Provision "Bituminous Surface Removal over Patches".

All dimensions are in inches (millimeters) unless otherwise shown.

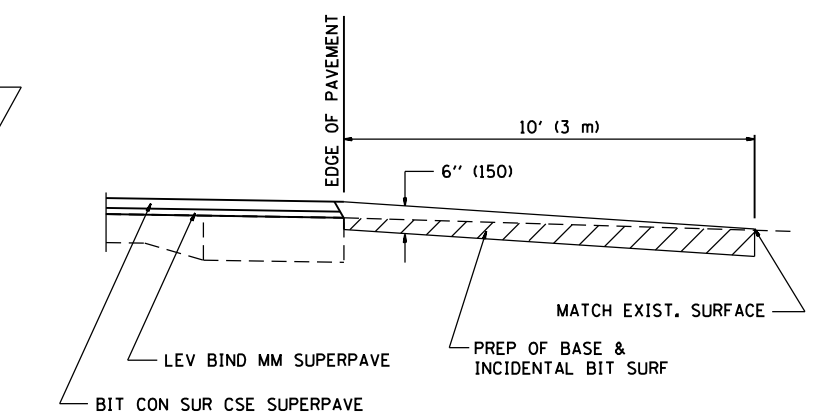
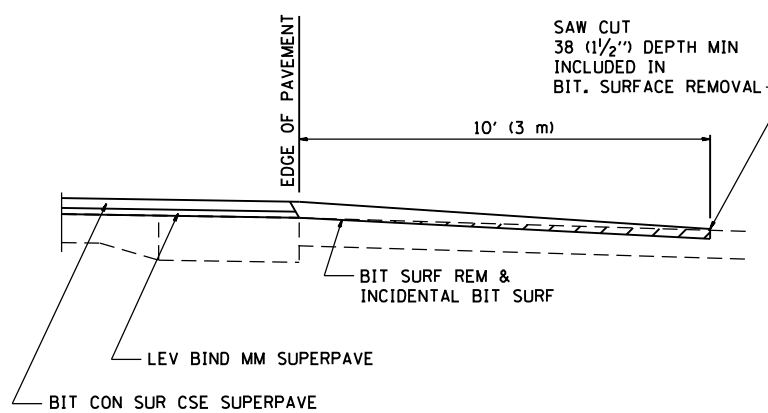
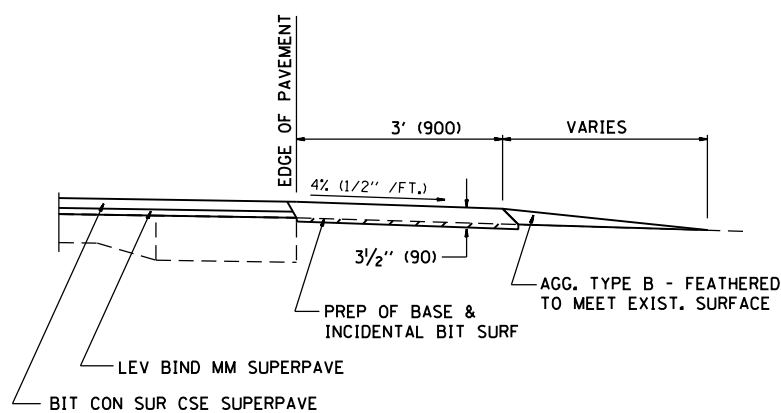
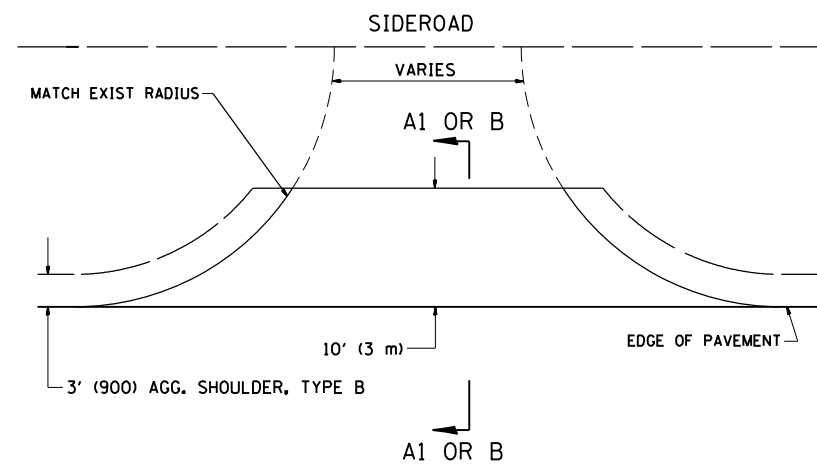
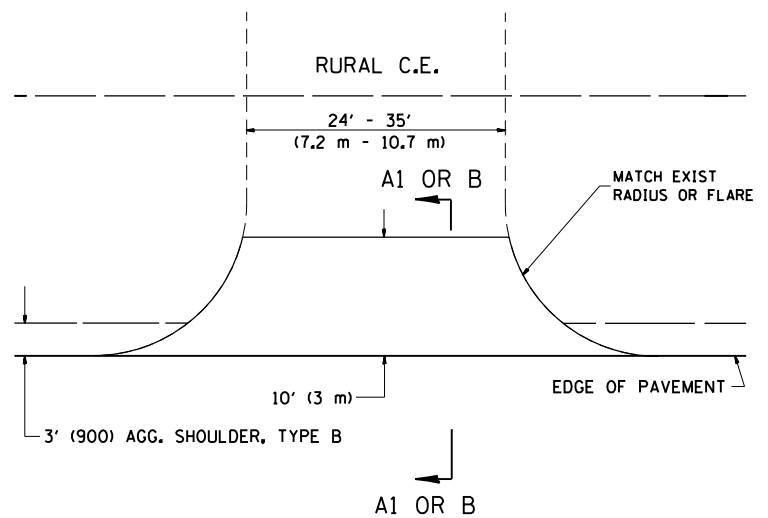
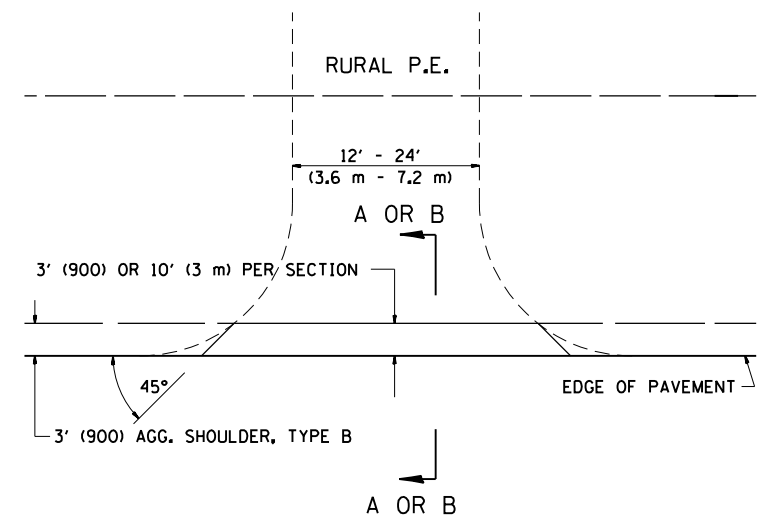
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PATCHBIT.DGN		DATE -	REVISED -
	PLOT SCALE = 40.000' / in.		
	PLOT DATE = 5/10/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





SECTION A-A FOR AGGREGATE P.E.

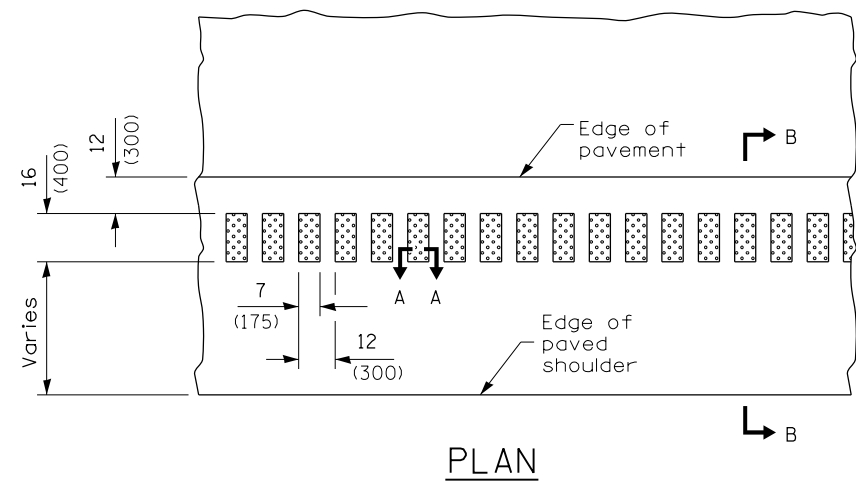
SECTION B-B FOR BITUMINOUS P.E., C.E. & SIDEROAD

SECTION A1-A1 FOR AGGREGATE C.E. & SIDEROAD

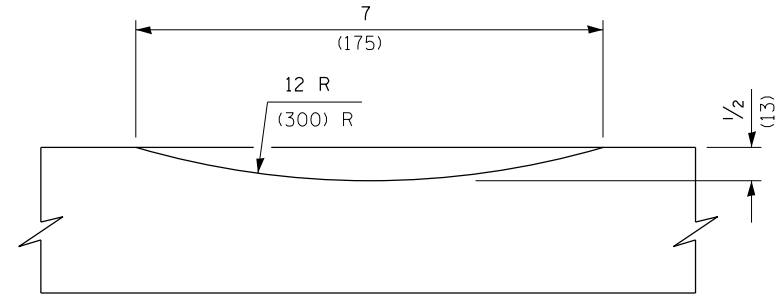
NOTE:  
SEE SIDEROAD & ENTRANCE SCHEDULE, SHEET NO.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN

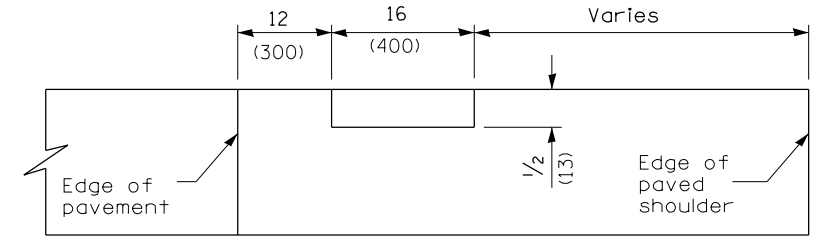
FILE NAME =	USER NAME = Verenskif	DESIGNED - WJR	REVISED - OPS 28AUG97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 6 ENTRANCE AND SIDEROAD DETAILS FOR PROJECTS WITHOUT MILLING</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PPP96.DGN		CHECKED - WJR	REVISED - OPS 05DEC02									
		DATE - 10/01/96				SCALE:	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO.		
										ILLINOIS FED. AID PROJECT		



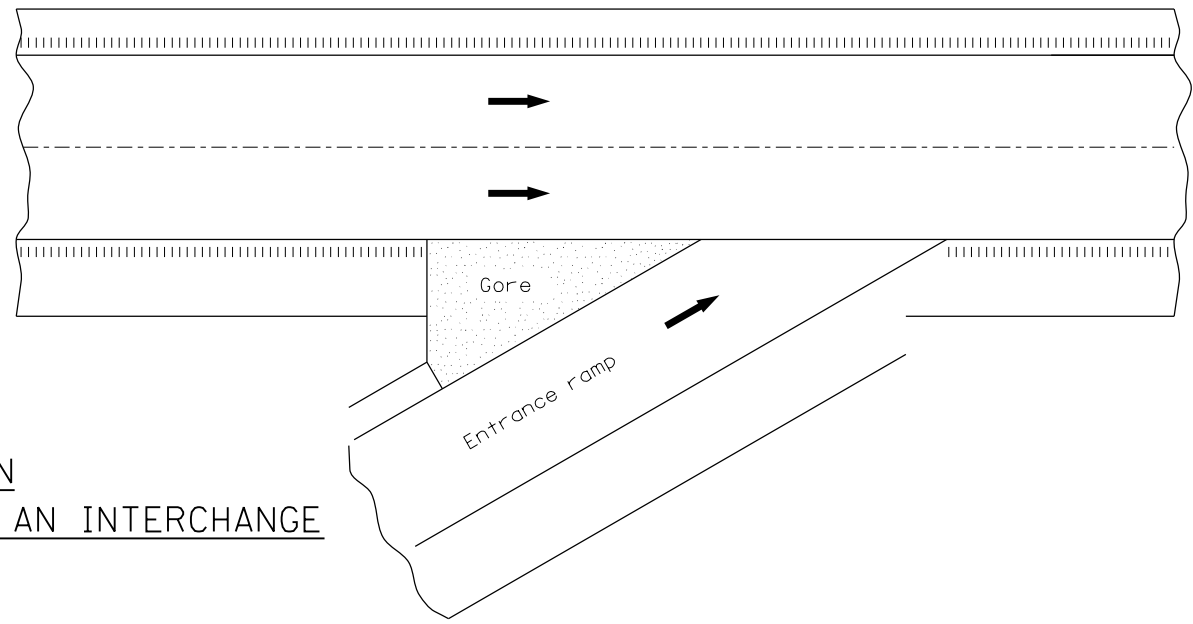
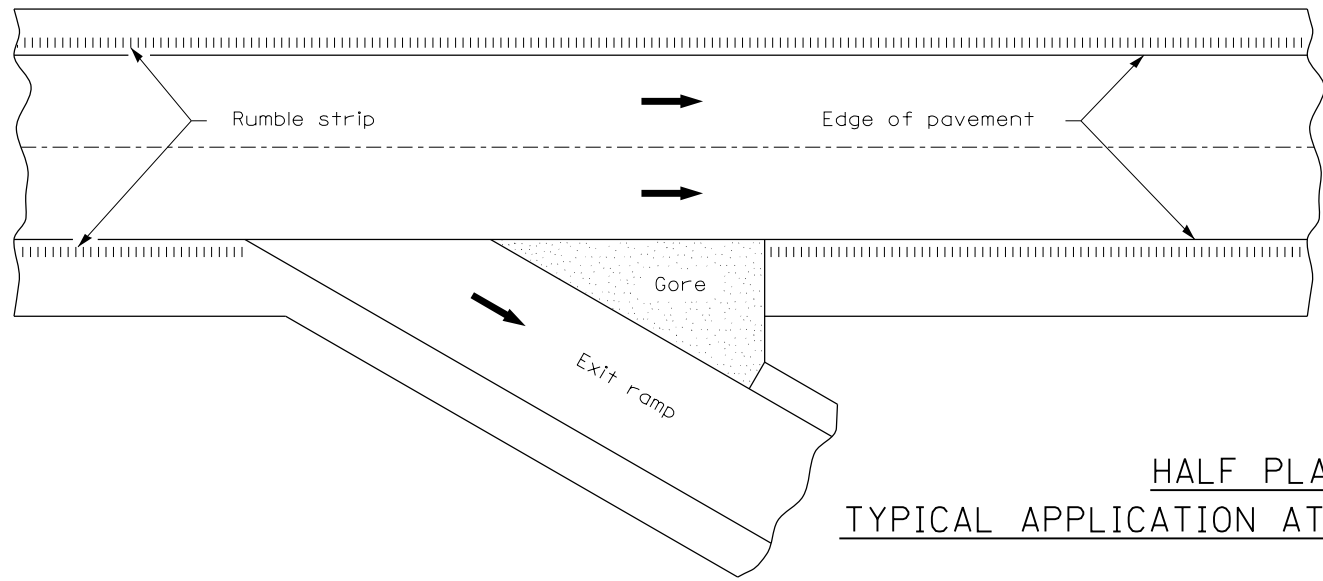
PLAN



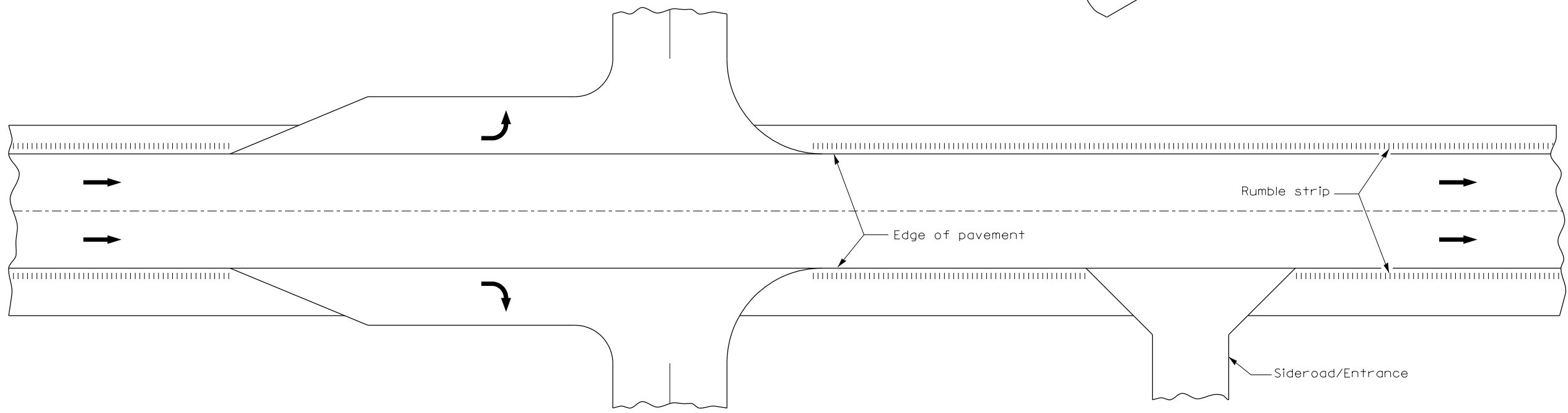
SECTION A-A



SECTION B-B

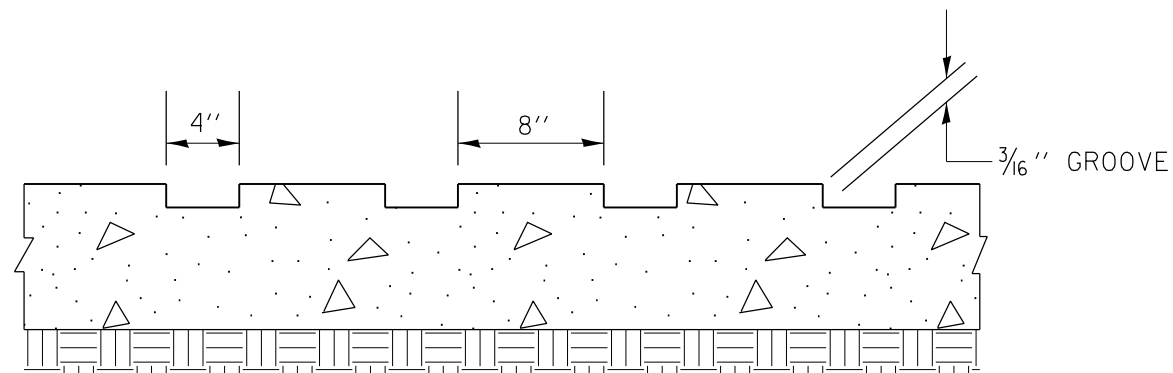
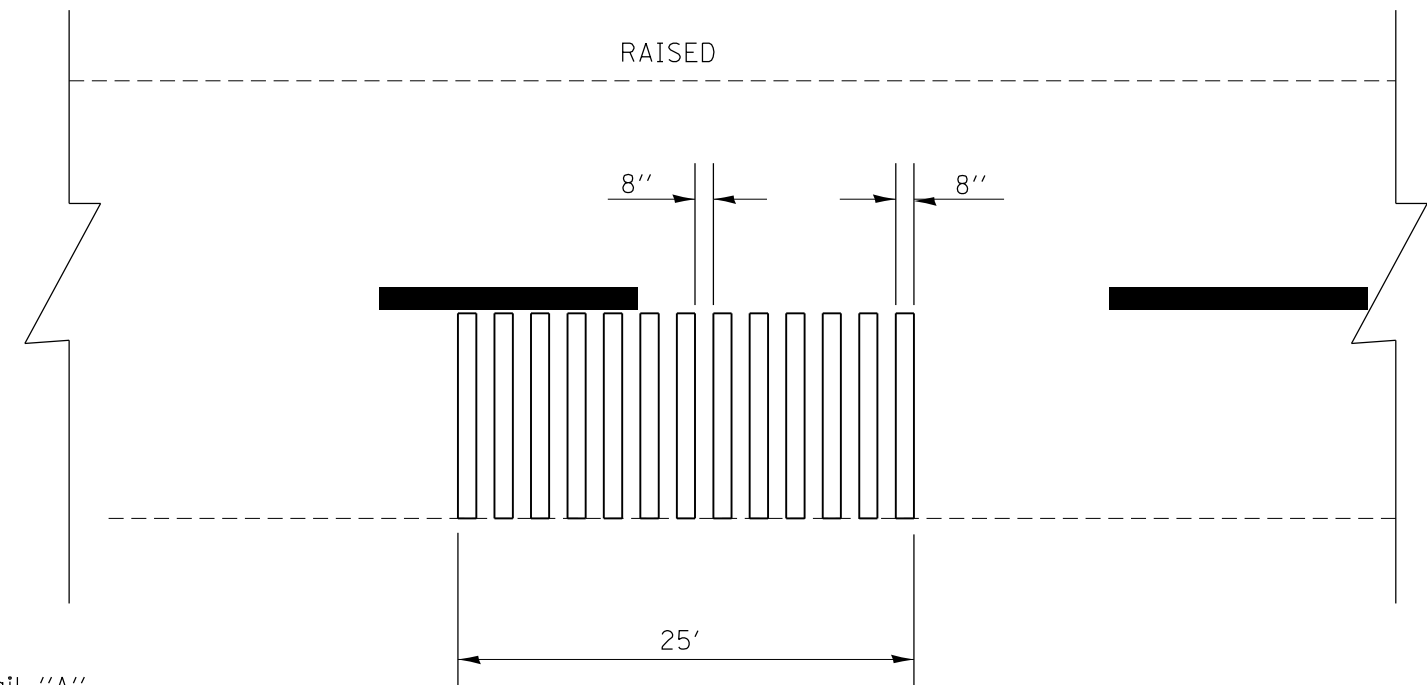
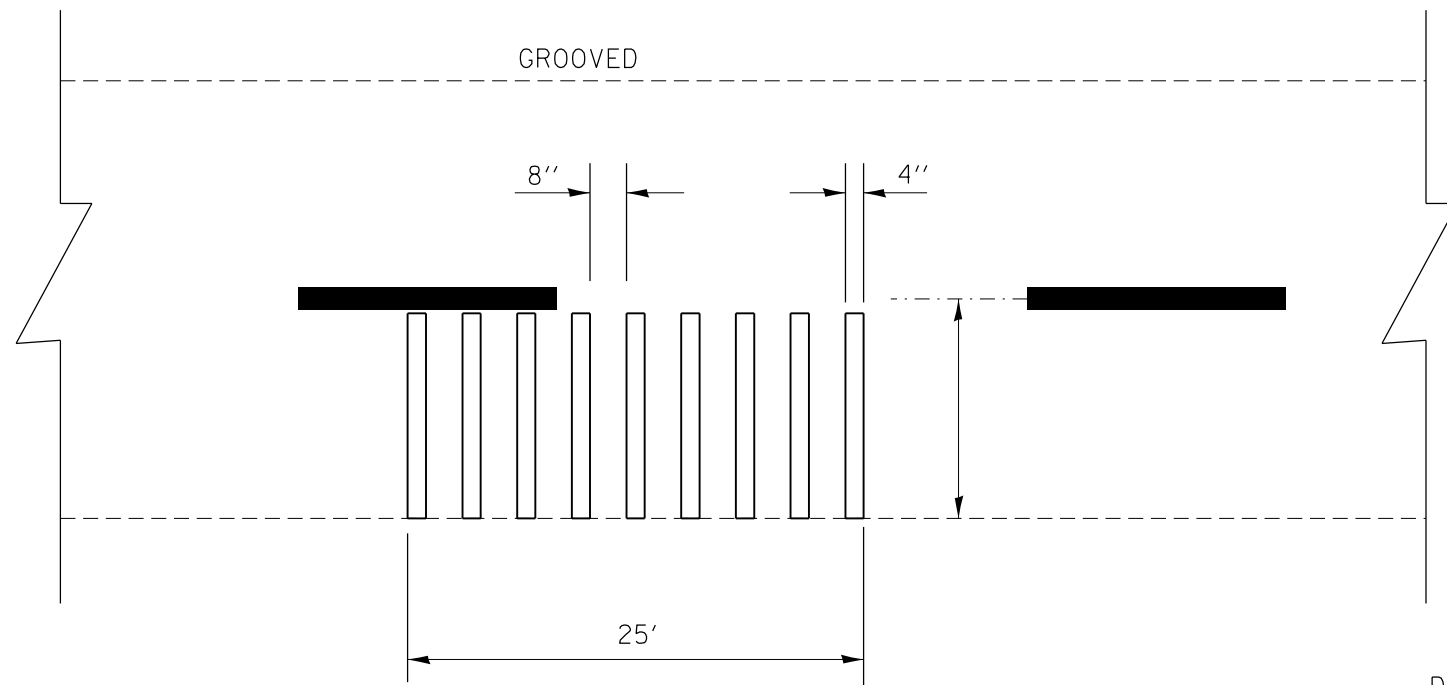
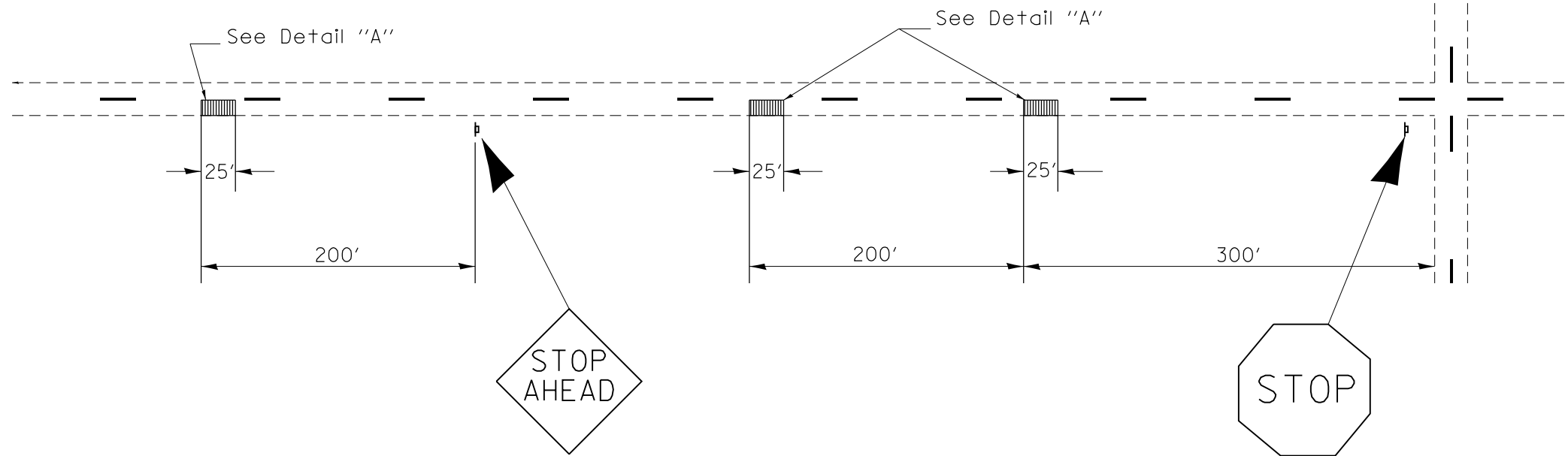


HALF PLAN  
TYPICAL APPLICATION AT AN INTERCHANGE



HALF PLAN  
TYPICAL APPLICATION EXPRESSWAY INTERSECTION

FILE NAME = Default RUMBLE.DGN	USER NAME = Verenskifa p:\work\11084EBID\INTEG\illinois.gov\PI\DOT\Documents\IDOT Offices\District 6\Standards\Strip\Drawings\400-rumble.dgn	DESIGNED - DRAWN	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RUMBLE STRIPS DETAIL</b>				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in. PLOT DATE = 5/10/2016	CHECKED - DATE -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. ILLINOIS FED. AID PROJECT		



Detail "A"  
 NOTE: The 25-foot rumble area has 8-inch lengths of treated surface stretched across the width of approach lane, each separated by 8 inches of existing pavement.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Strip\Detaila\400-CMS\le-strip.dgn		CHECKED -	REVISED -
<b>RUMBLE STRIP.DGN</b>	PLOT SCALE = 40.0000' / in.	DATE - 10/08/00	REVISED -
	PLOT DATE = 5/10/2016		

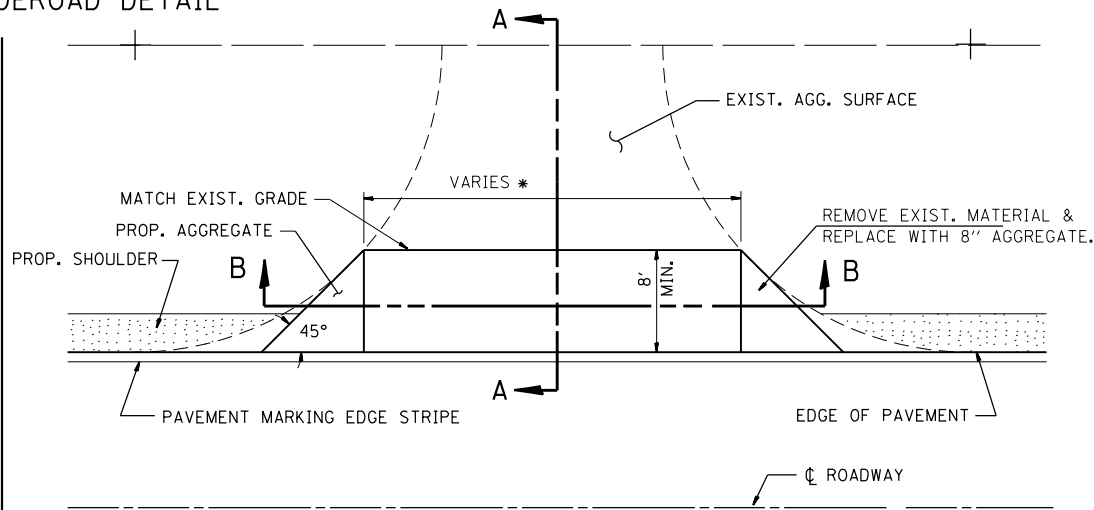
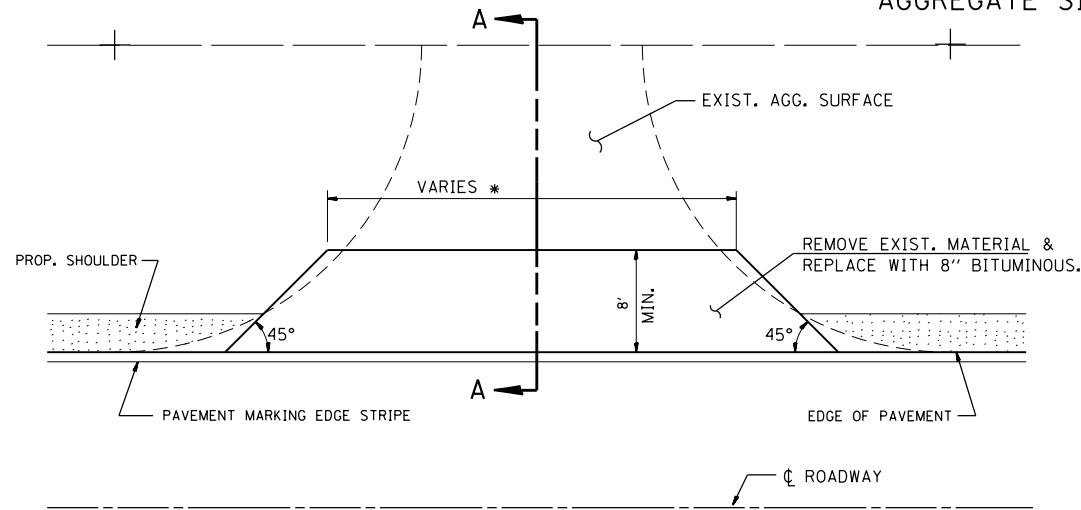
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT RUMBLE STRIP  
 APPLICATION (TYPICAL)**

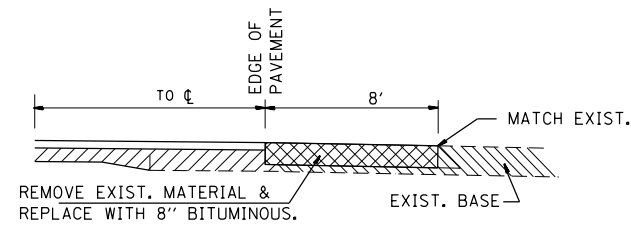
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				

AGGREGATE SIDEROAD DETAIL

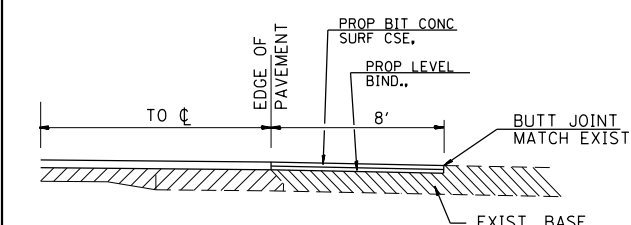


\* AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



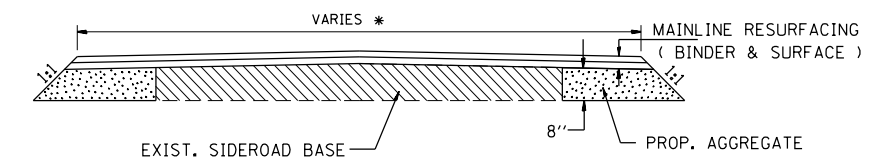
SECTION A-A

TYPE A



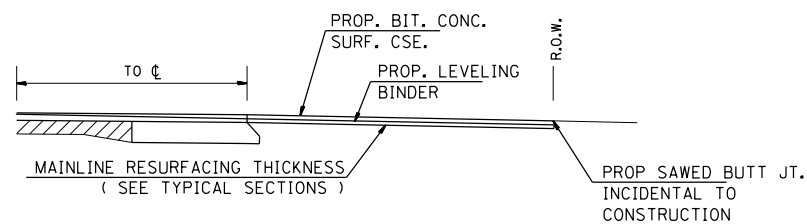
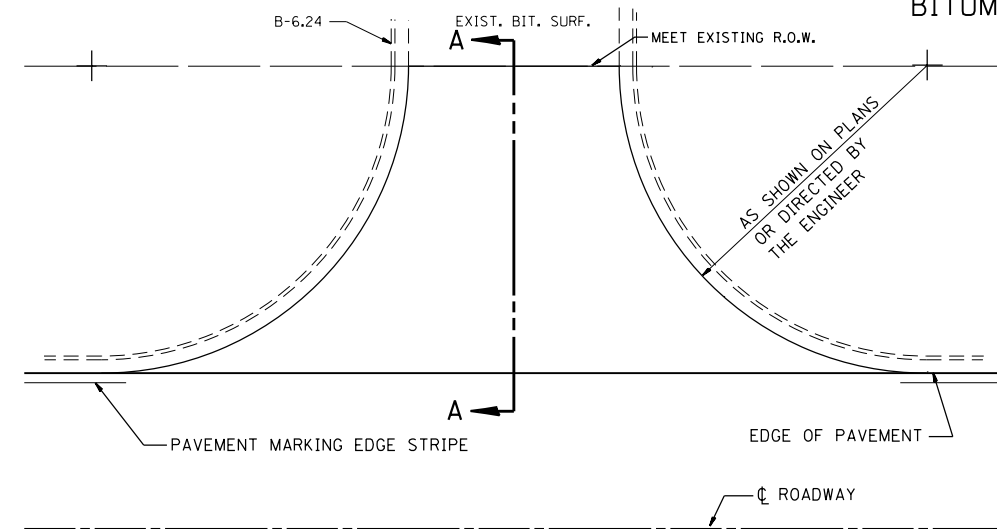
SECTION A-A

TYPE B



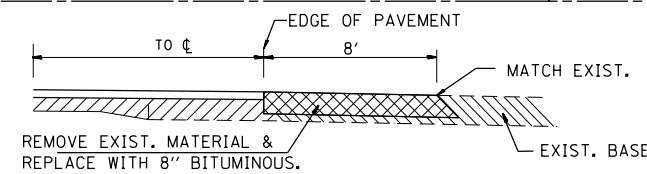
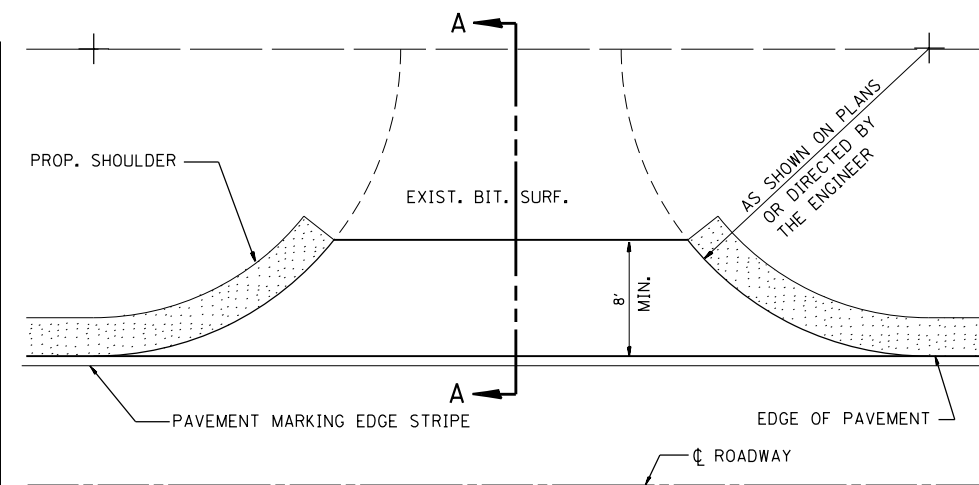
SECTION B-B

BITUMINOUS SIDEROAD DETAIL

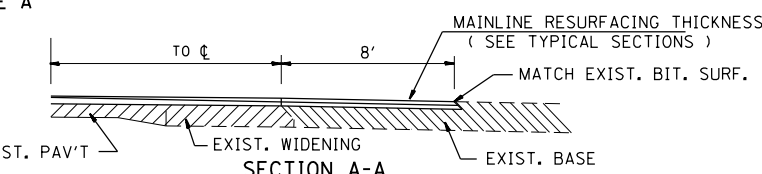


SECTION A-A

URBAN ROAD OR STREET



TYPE A



SECTION A-A

TYPE B

RURAL SIDEROADS

NOTES

1. THE SIDEROAD TREATMENT FOR RURAL BITUMINOUS SIDEROADS SHALL BE CONTINUED TO THE END OF THE RADIUS RETURN IF RADIUS IMPROVEMENT IS SHOWN ON THE PLANS.
2. IF VERTICAL GRADE CHANGE IS OCCURRING, THEN THE SIDEROAD TREATMENT SHALL CONTINUE UNTIL THE PROPOSED CHANGE MEETS THE EXISTING SIDEROAD.
3. THE ROADWAY PLANS AND SCHEDULE WILL LIST THE QUANTITIES AND LOCATIONS FOR ALL SIDEROADS.

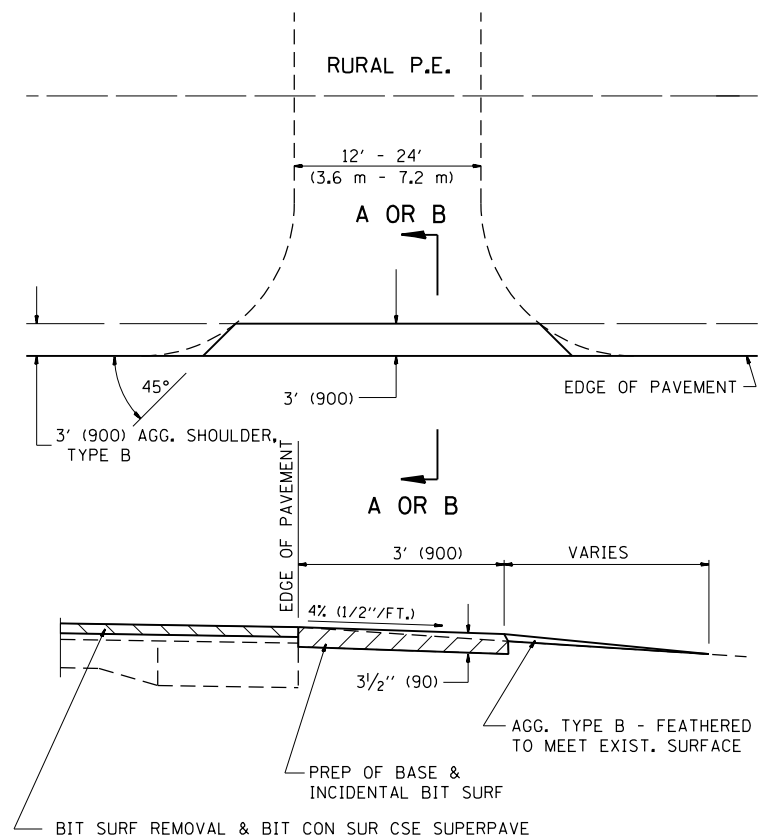
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Default SIDERD.DGN	PLOT SCALE = 40.000' / in.	DATE - 10/21/92	REVISED -
	PLOT DATE = 5/10/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

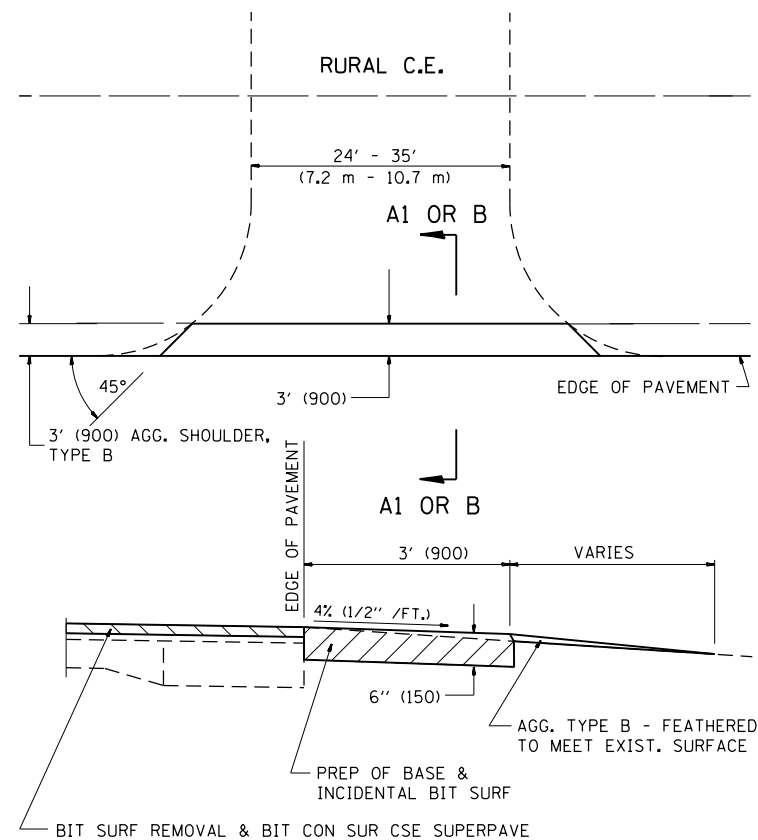
SIDEROAD DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

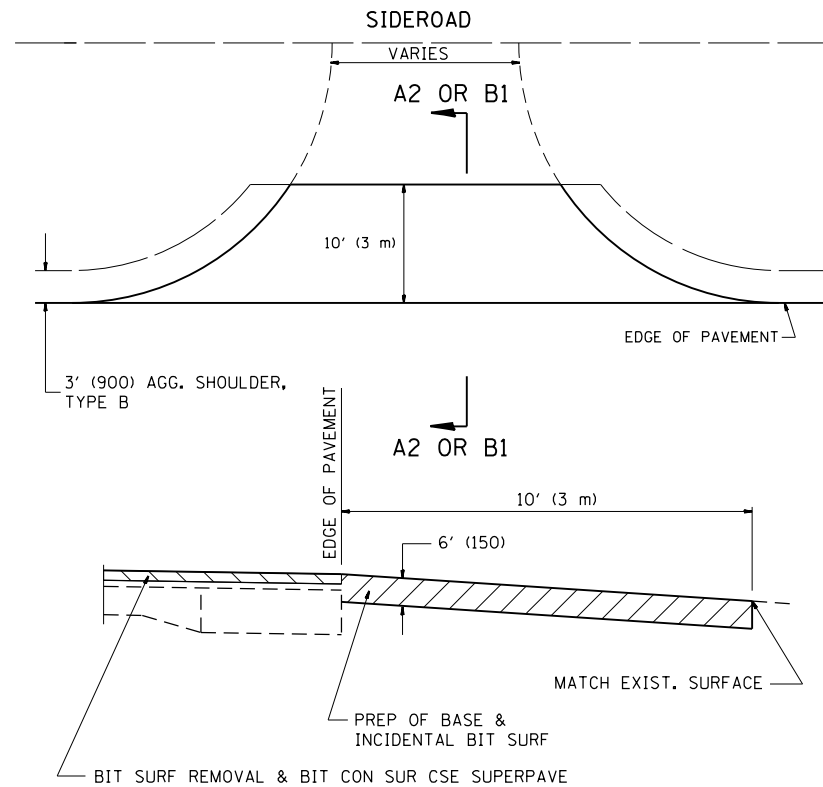
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



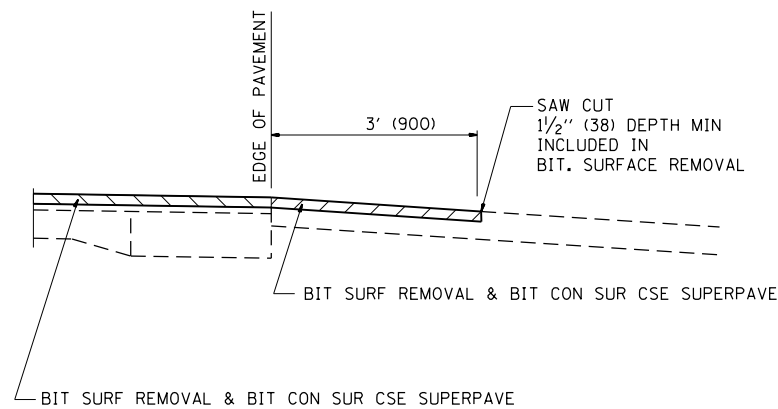
SECTION A-A FOR AGGREGATE P.E.



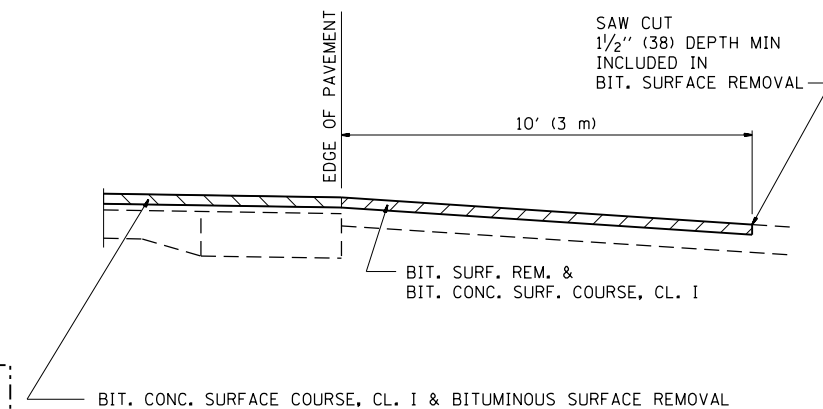
SECTION A1-A1 FOR AGGREGATE C.E.



SECTION A2-A2 FOR AGGREGATE SIDEROAD



SECTION B-B FOR BITUMINOUS P.E. & C.E.



SECTION B1-B1 FOR BITUMINOUS SIDEROAD

NOTE:  
SEE SIDEROAD & ENTRANCE SCHEDULE, SHEET NO.

DESIGNER NOTES:

- 1 THIS IS A BASE SHEET WHICH CAN BE MODIFIED TO SHOW FINAL ENTRANCE TREATMENT DETAIL TO BE INCLUDED IN THE PLANS. SHOW ONLY THE PLAN AND SECTION VIEWS APPLICABLE TO THE PROJECT.
- 2 BITUMINOUS CONCRETE THICKNESS ON AGGREGATE SIDEROADS AND COMMERCIAL ENTRANCES MAY BE INCREASED WHEN WARRANTED.
- 3 IF EXISTING BITUMINOUS SURFACE IS NEW AND/OR IN VERY GOOD CONDITION - RESURFACING MAY BE OMITTED. IF EXISTING SURFACE IS SIGNIFICANTLY DEGRADED - CORE OUT AND REPLACE AS SHOWN IN SECTION A1-A1 OR A2-A2 (WHICHEVER IS APPLICABLE).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

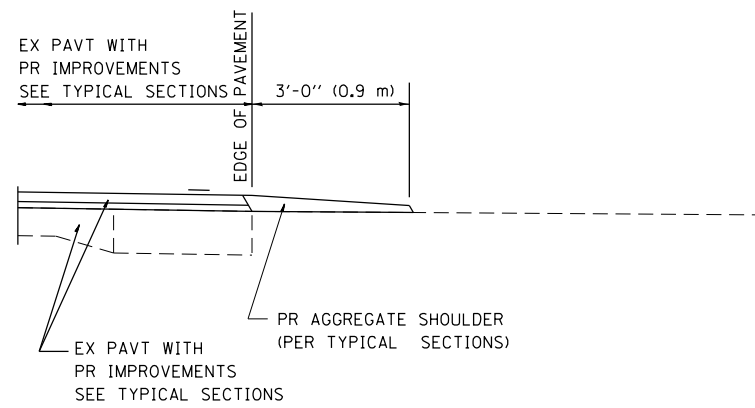
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SMART96.DGN		CHECKED - WJR	REVISED - OPS 5MAR00
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

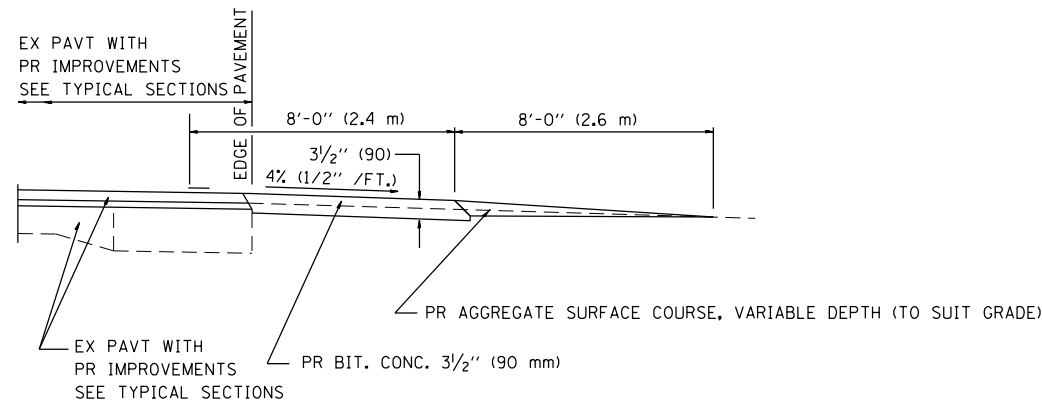
ENTRANCE AND SIDEROAD DETAILS  
FOR PROJECTS WITH MILLING

SCALE: SHEET OF SHEETS STA. TO STA.

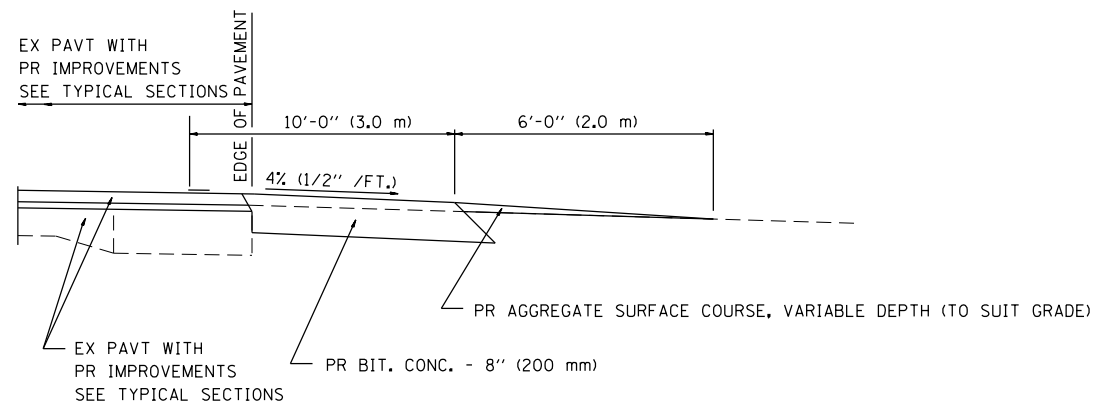
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



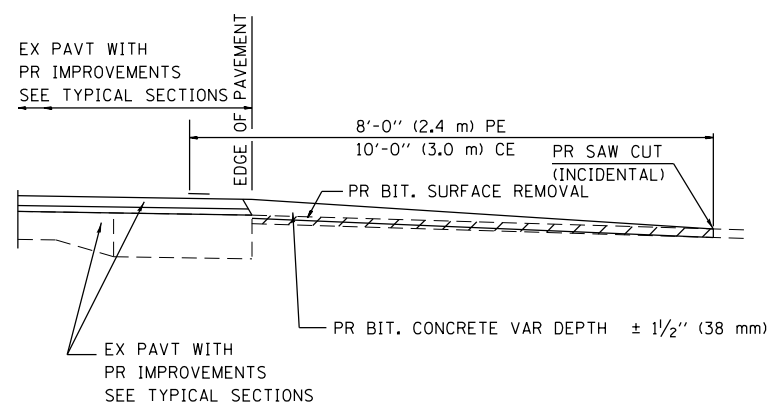
SECTION A-A FOR EX EARTH/ AGGREGATE FE



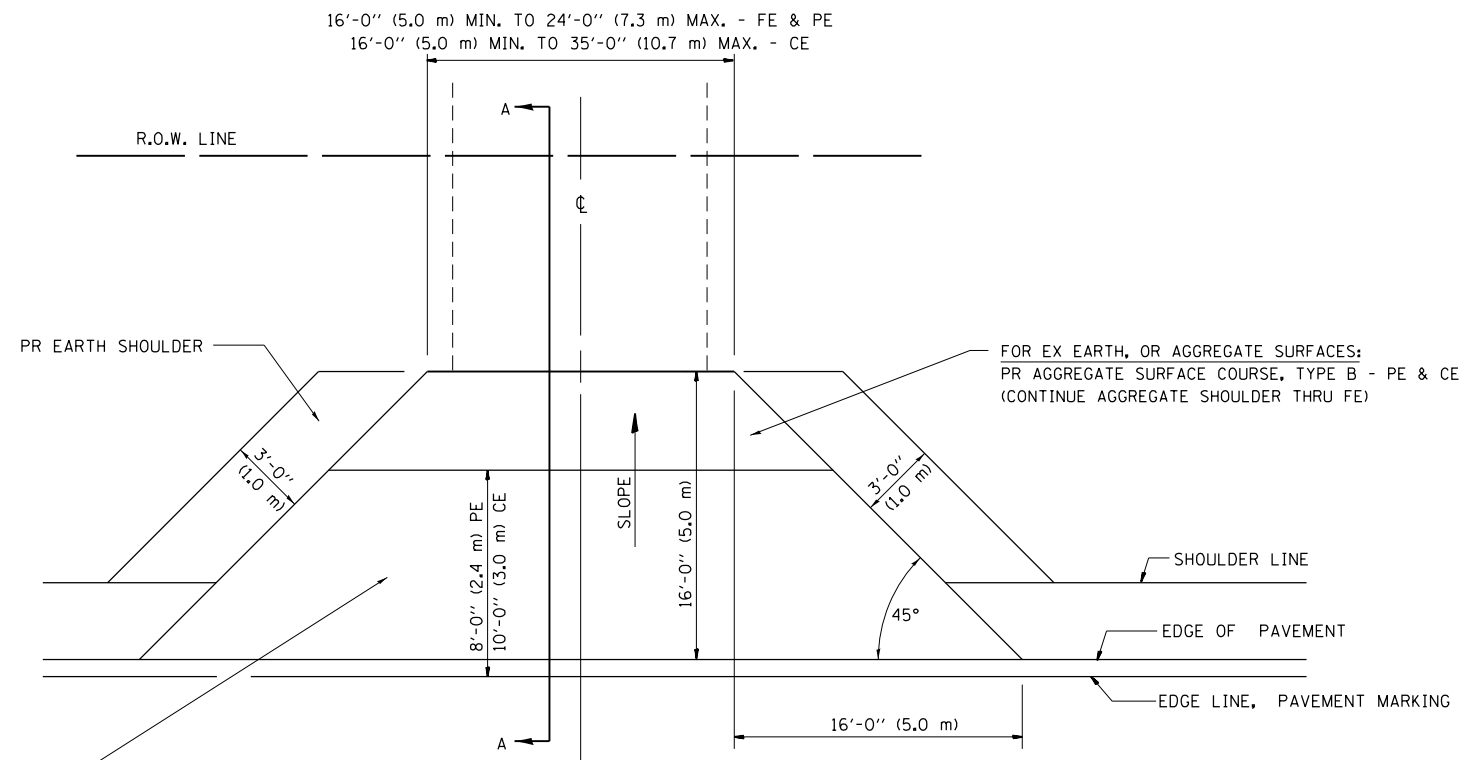
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX BITUMINOUS/ PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES:  
 PR BIT SURFACE REMOVAL (IF APPLICABLE)  
 PR AGGREGATE SHOULDER THRU - FE  
 PR BITUMINOUS CONCRETE 3 1/2" (90 mm) - PE  
 PR BITUMINOUS CONCRETE 8" (200 mm) - CE

FOR BITUMINOUS OR P.C. CONCRETE SURFACES:  
 PR BITUMINOUS SURFACE REMOVAL, VARIABLE DEPTH

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

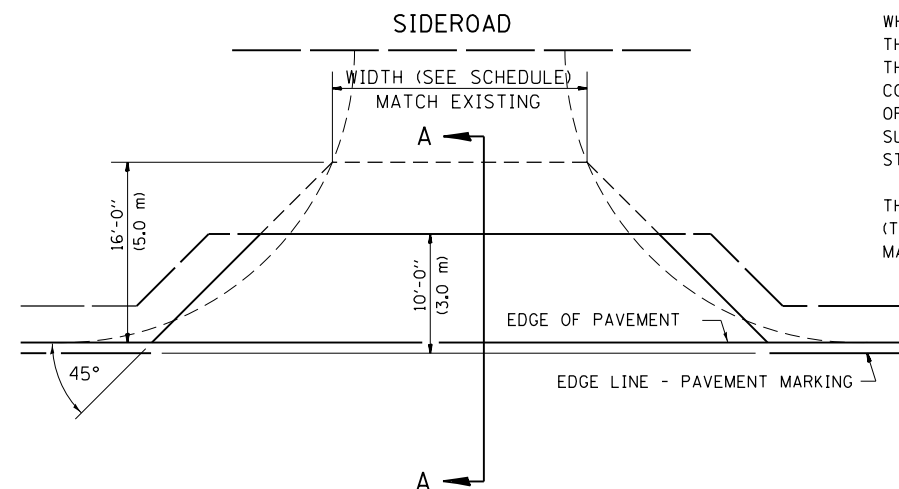
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE C, CLASS I, TYPE 2 OF SECTION 406 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METRIC TON (TON) FOR "INCIDENTAL BITUMINOUS SURFACING" WHICH SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR INVOLVED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



FILE NAME =	USER NAME = Verenskif	DESIGNED - JCN	REVISED -
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SMARTPPP.DGN		DATE - 2/23/99	REVISED -

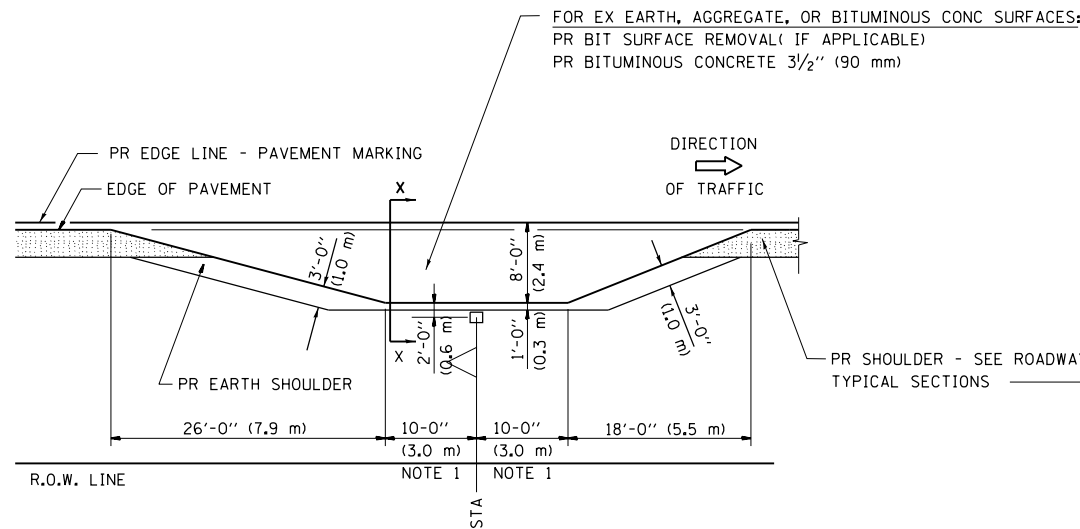
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS FOR RURAL ENTRANCE,  
 MAILBOX TURNOUT & SIDE ROAD

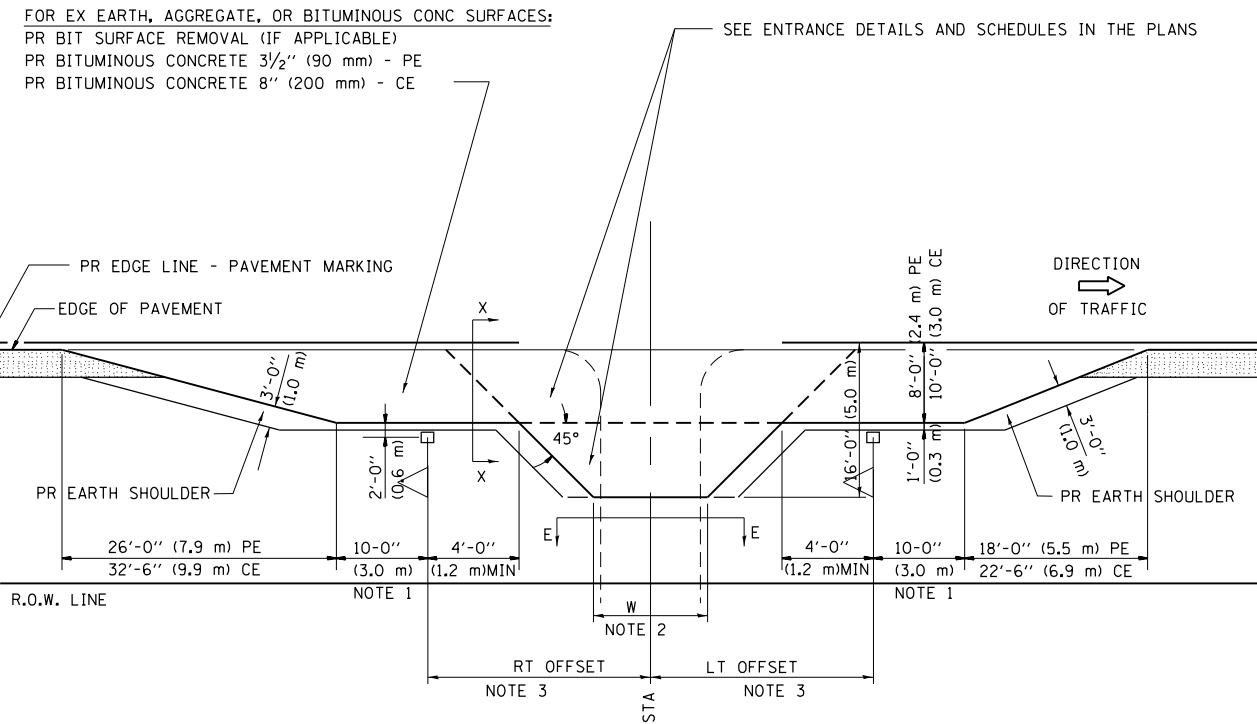
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

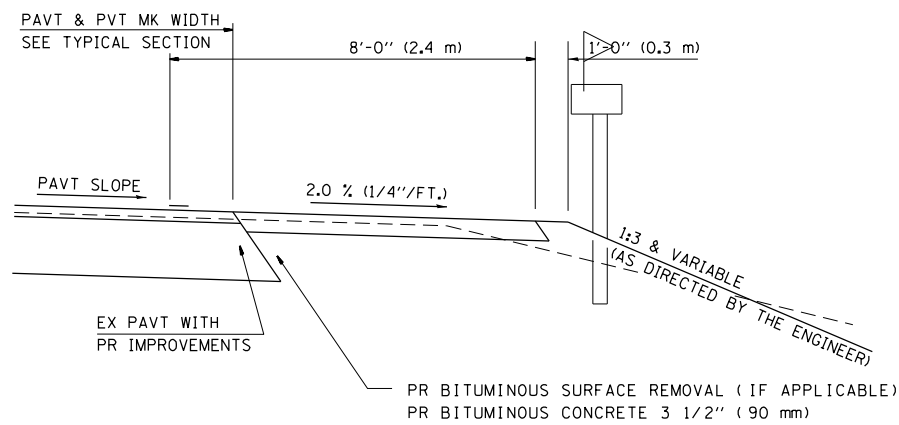
## DETAILS OF MAILBOX TURNOUTS



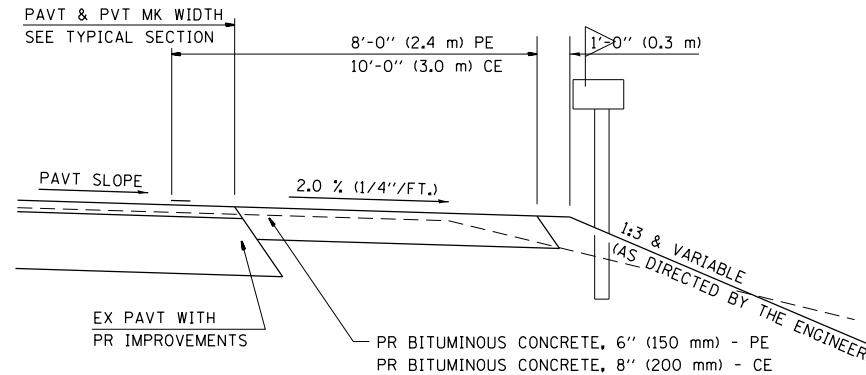
PLAN - MAILBOX TURNOUTS



PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT  
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH  
EX EARTH, AGGREGATE, OR BITUMINOUS PE & FE



SECTION X-X THRU MAILBOX TURNOUT  
COMBINED WITH EX BITUMINOUS CONC & PC CONC PE & CE

- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

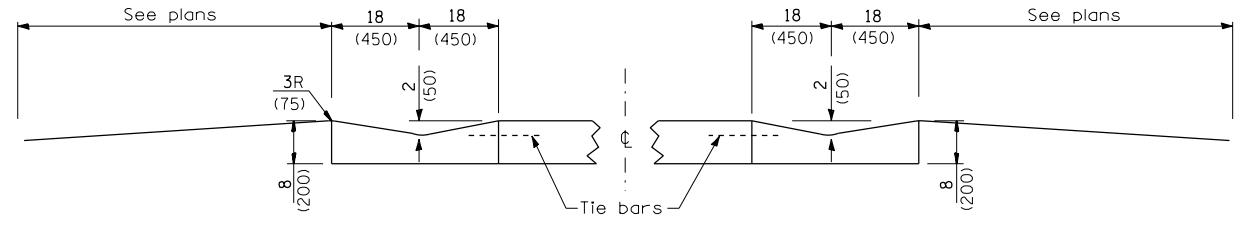
NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

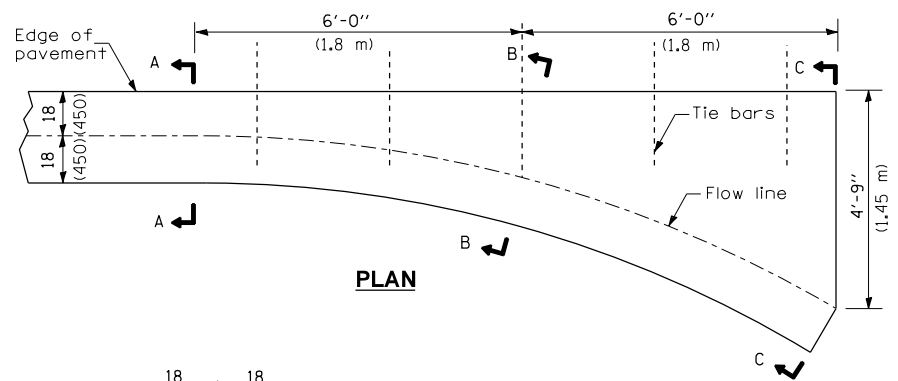
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SMARTPPP.DGN		CHECKED - JCN	REVISED -			CONTRACT NO.					
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						SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.		



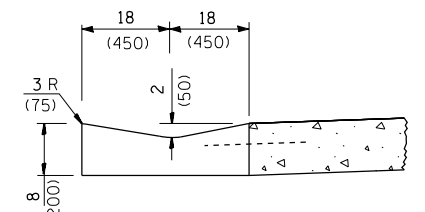




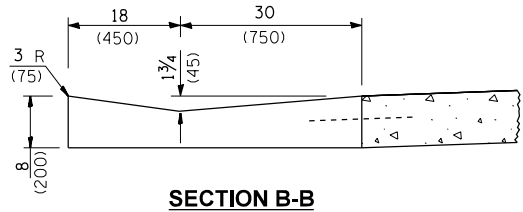
**CONCRETE GUTTER, TYPE A (MODIFIED)**



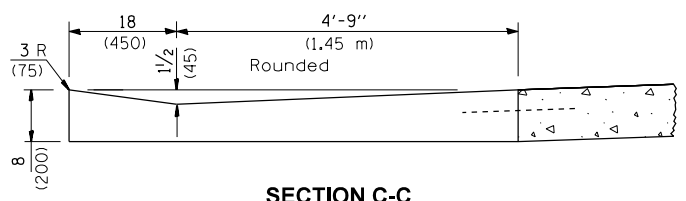
**SECTION A-A**



QUANTITY  
Section C-C to A-A  
1.18 cu. yd. (0.90 m<sup>3</sup>)  
concrete.

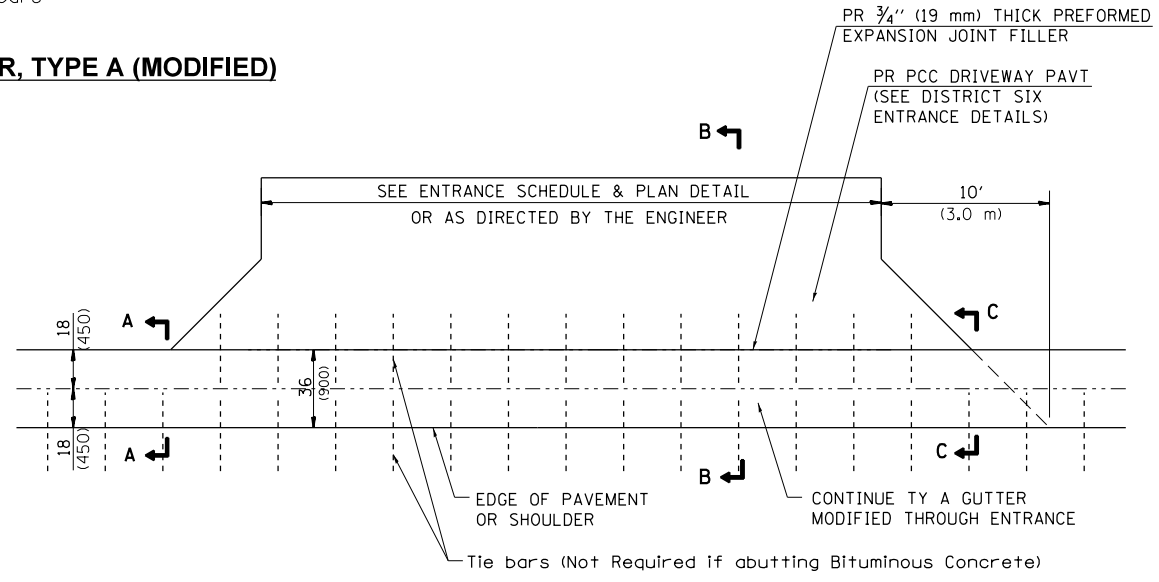


**SECTION B-B**

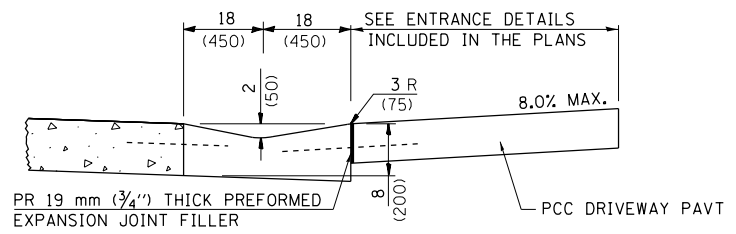
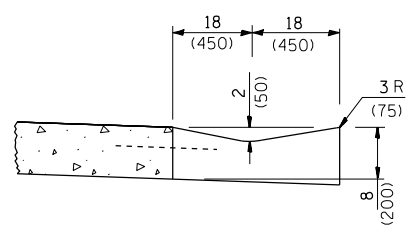


**SECTION C-C**

**INLET**



**SECTION A-A & C-C**



**SECTION B-B**

**ENTRANCE**

**GENERAL NOTES**

Tie bars shall be No. 20 (No. 6) at 24" (600 mm) centers unless otherwise shown.  
Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.  
Two 1-1/4" x 18" (32 mm x 450 mm) dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

All dimensions are in inches (millimeters) unless otherwise shown.

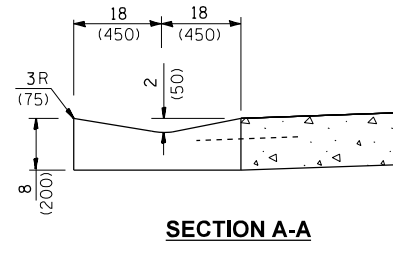
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	PLOT DATE = 5/10/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

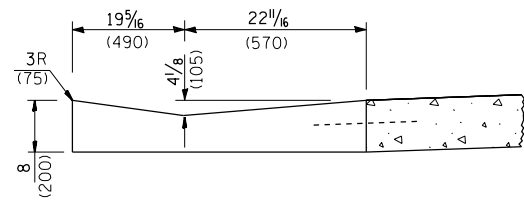
**DISTRICT SIX DETAILS FOR GUTTER, TYPE A (MODIFIED)  
(INLET, OUTLET & ENTRANCE)**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

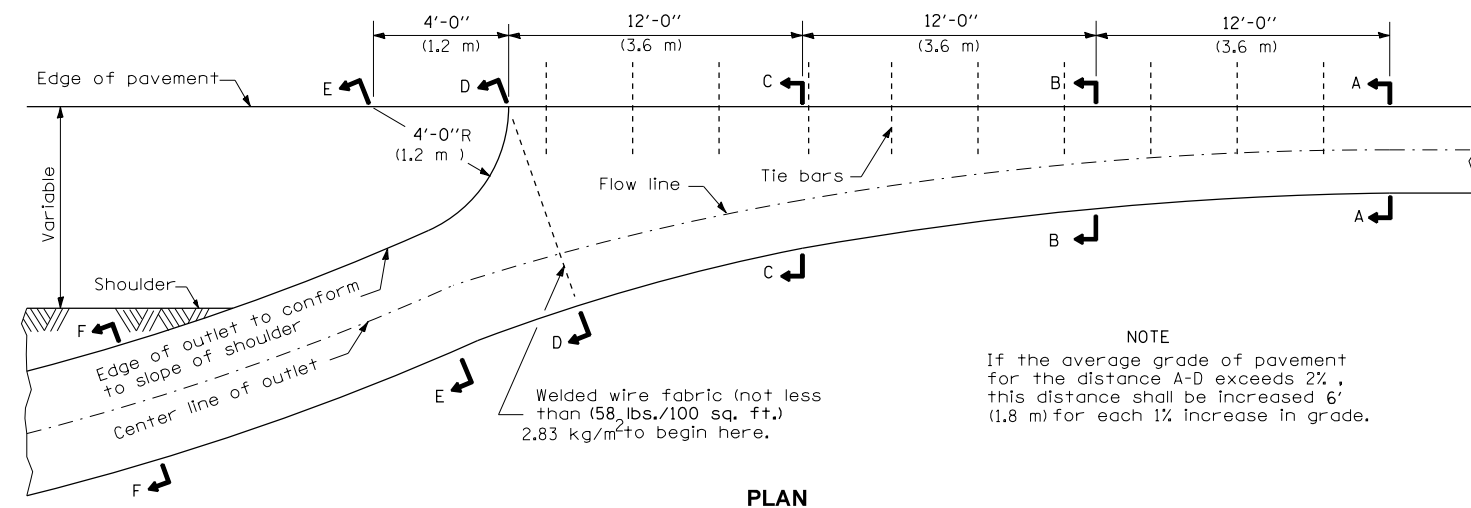
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



**SECTION A-A**

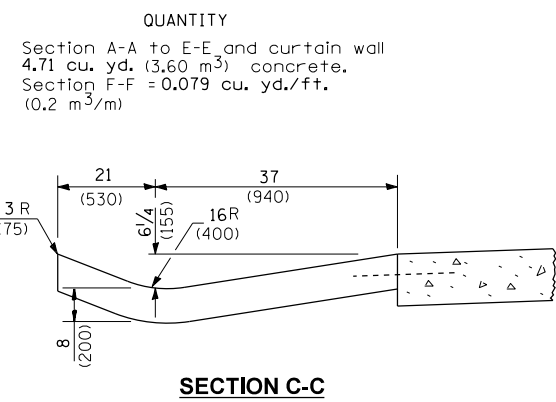


**SECTION B-B**

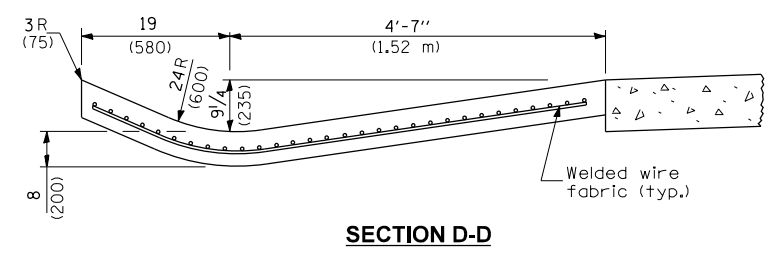


**PLAN**

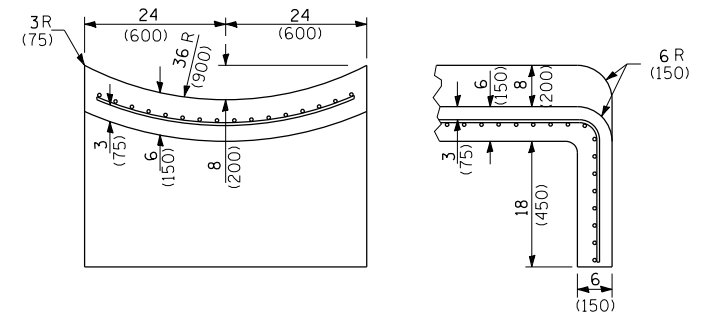
**NOTE**  
If the average grade of pavement for the distance A-D exceeds 2%, this distance shall be increased 6' (1.8 m) for each 1% increase in grade.



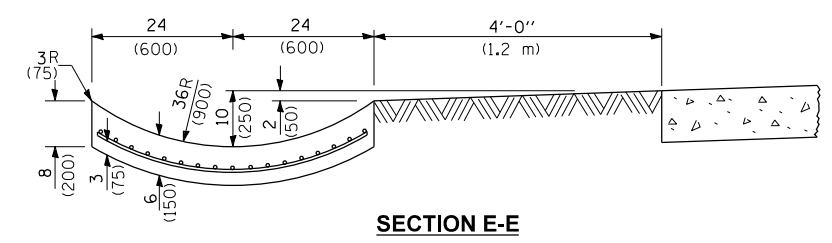
**SECTION C-C**



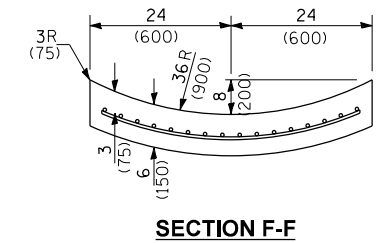
**SECTION D-D**



**SECTIONS AT END OF OUTLET**



**SECTION E-E**



**SECTION F-F**

**OUTLET**

All dimensions are in inches (millimeters) unless otherwise shown.

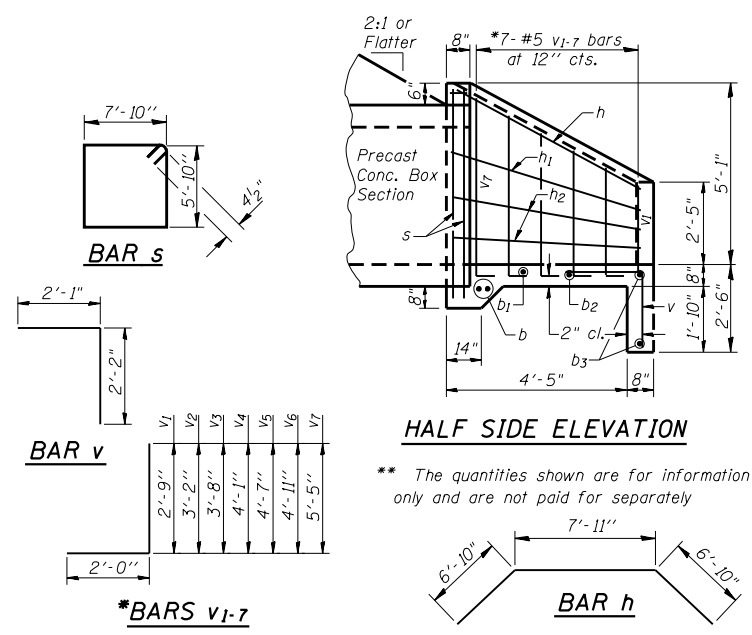
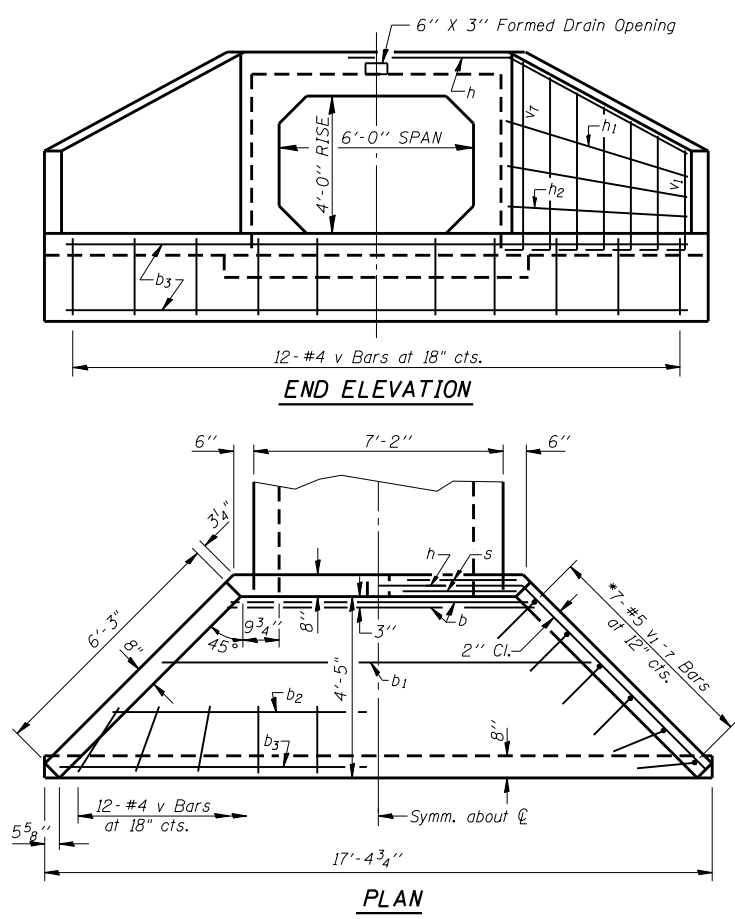
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TYPE_A_GUTTER_MODIFIED.DGN	PLOT SCALE = 48.000' / in.	DATE - 3/11/98	REVISED -
	PLOT DATE = 5/10/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT SIX DETAILS FOR GUTTER, TYPE A (MODIFIED)  
(INLET, OUTLET & ENTRANCE)**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



**\*BARS v1-7**  
 \* v1 thru v7 bars shall be epoxy coated for rise of more than 5'-0".

**GENERAL NOTES**  
 Exposed edges shall be beveled 3/4".  
 Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

\*\* The quantities shown are for information only and are not paid for separately

**BILL OF MATERIAL**

Bar No.	Size	Length	Shape
b	2 #5	9'-0"	—
b1	1 #4	11'-0"	—
b2	1 #4	13'-0"	—
b3	2 #4	17'-0"	—
h	1 #5	21'-7"	—
h1	2 #4	6'-9"	—
h2	4 #4	6'-7"	—
s	2 #4	28'-1"	□
v	12 #4	4'-3"	—
v1	2 #5	4'-9"	—
v2	2 #5	5'-2"	—
v3	2 #5	5'-8"	—
v4	2 #5	6'-1"	—
v5	2 #5	6'-7"	—
v6	2 #5	6'-11"	—
v7	2 #5	7'-5"	—
Concrete Box Culverts	Cu. Yds.	3.9	
Reinf. Bars	Lbs.	270	

\*\*Table for one (1) headwall.

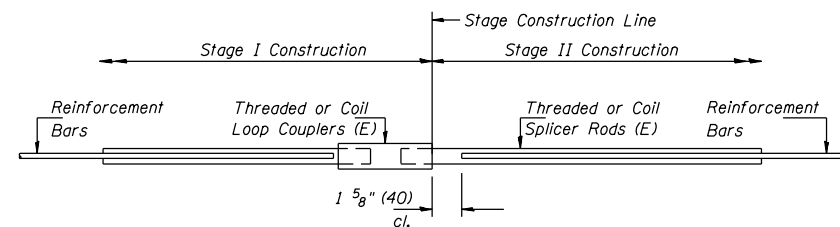
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Default BARPREDGN	PLOT SCALE = 40.0000' / in.	DATE - MARCH 19, 1997	REVISED -
	PLOT DATE = 5/10/2016		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CAST-IN-PLACE END SECTION FOR  
 PRECAST CONCRETE BOX CULVERT**

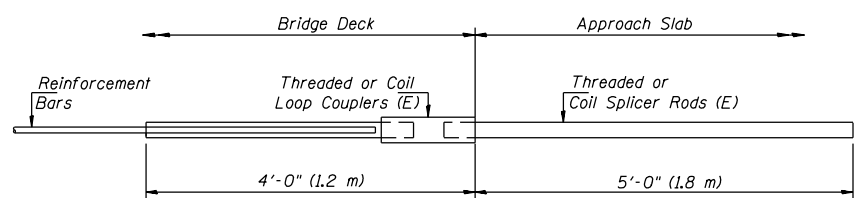
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**BAR SPLICER ASSEMBLY DETAIL**

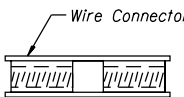
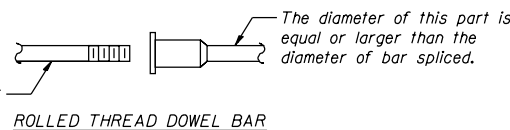
Bar Size	No. Assemblies Required	Location



**INTEGRAL ABUTMENT  
BAR SPLICER ASSEMBLY DETAIL  
FOR #15 BAR**

Min. Capacity = 22,667 lbs (100 kN) - tension
Min. Pull-out Strength = 9,067 lbs (40 kN) - tension
No. Required =

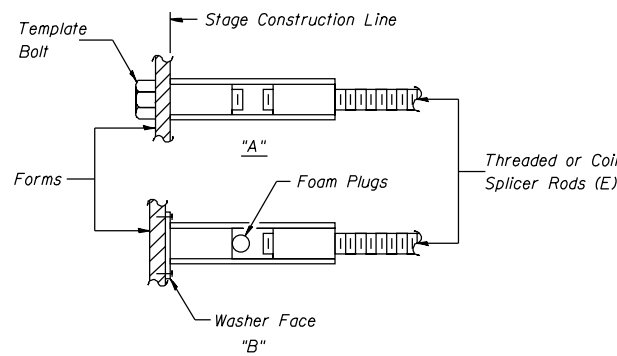
The diameter of this part is the same as the diameter of the bar spliced.



**WELDED SECTIONS**

**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563M, Grade C, D or DH may be used.



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 400 MPa yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

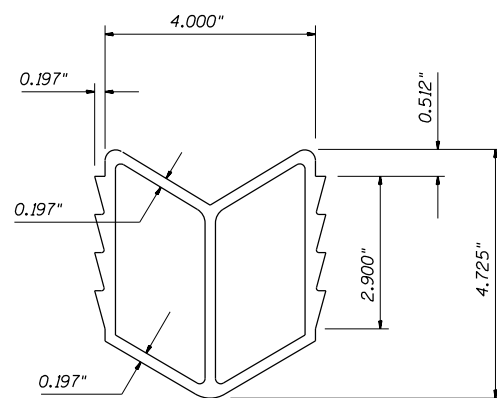
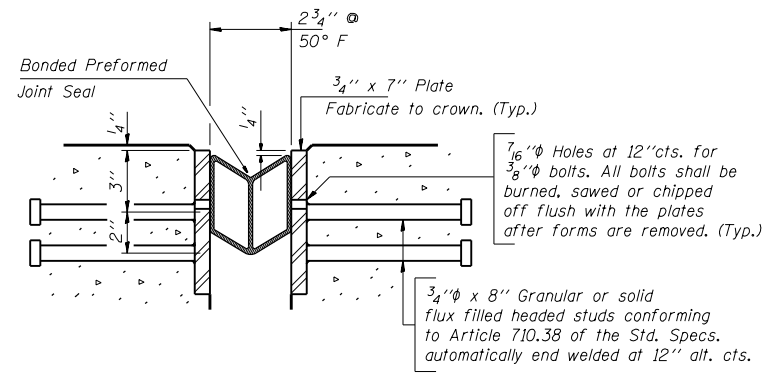
- ① Minimum Capacity =  $1.25 \times 10^3 \times f_y \times A_s$  (Tension in kN)
- ② Minimum \*Pull-out Strength =  $1.25 \times 10^3 \times f_{s_{allow}} \times A_s$  (Tension in kN)

Where  $f_y$  = Yield strength of lapped reinforcement bars in MPa.  
 $f_{s_{allow}}$  = Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)  
 $A_s$  = Tensile stress area of lapped reinforcement bars (mm<sup>2</sup>).  
 \* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity lb - tension	Min. Pull-Out Strength lb - tension
#15	24"	25	9
#20	30"	36	14
#25	36"	55	24
#30	40"	80	32

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension
#15	610 mm	100	40
#20	790 mm	150	60
#25	1.04 m	250	100
#30	1.37 m	350	140

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."  
 All dimensions are in millimeters (mm) except as noted.



Bonded Preformed Joint Seal

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard Details\500-bondedjt.dgn		DRAWN	REVISED -
Default	PLOT SCALE = 48.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BONDED JOINTS**

SCALE: SHEET OF SHEETS STA. TO STA.

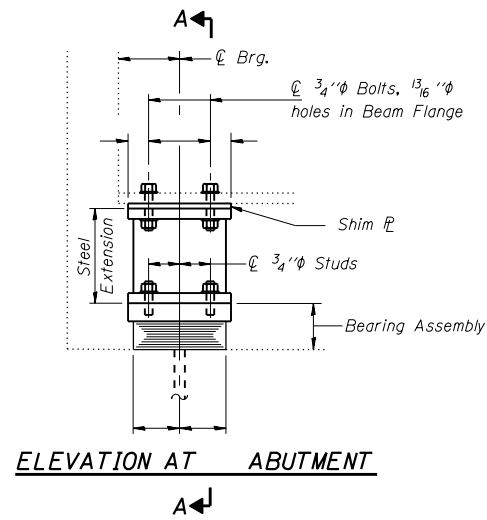
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



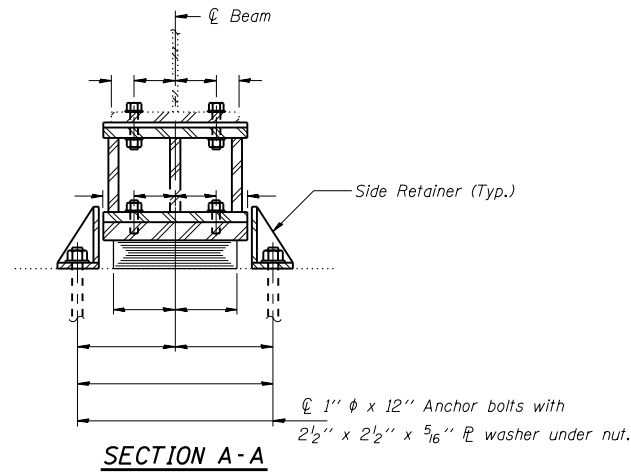
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER REACTIONS

R <sub>l</sub>	(K)	
R <sub>t</sub>	(K)	
Imp.	(K)	
R (Total)	(K)	

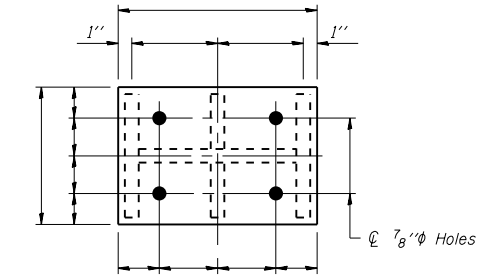


ELEVATION AT ABUTMENT



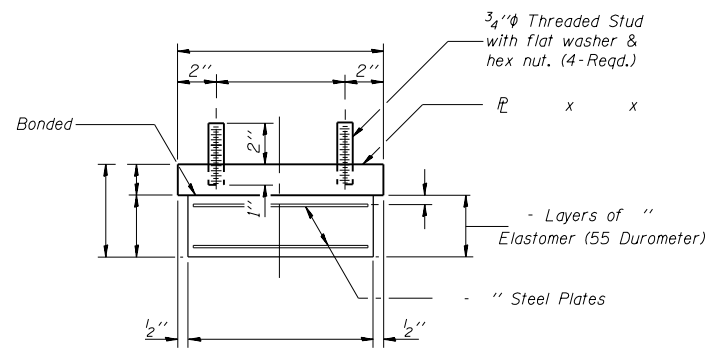
SECTION A-A

Notes: Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included with Furnishing and Erecting Structural Steel.  
New steel extensions, side retainers, shim's, connection bolts, and anchor bolts are included with Furnishing and Erecting Structural Steel.  
See Sheet of for Anchor Bolt Installation.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.  
Min. jack capacity = Tons.



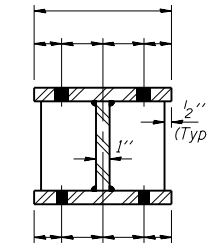
PLAN TOP AND BOTTOM PLATE

TYPE I ELASTOMERIC EXP. BRG.

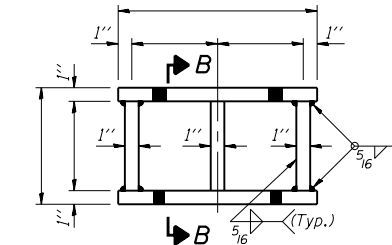


BEARING ASSEMBLY

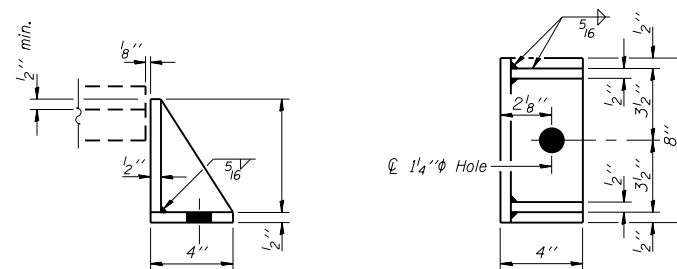
Note: Shim plates shall not be placed under Bearing Assembly.



SECTION B-B



STEEL EXTENSION DETAIL



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	

DESIGNED	20
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	

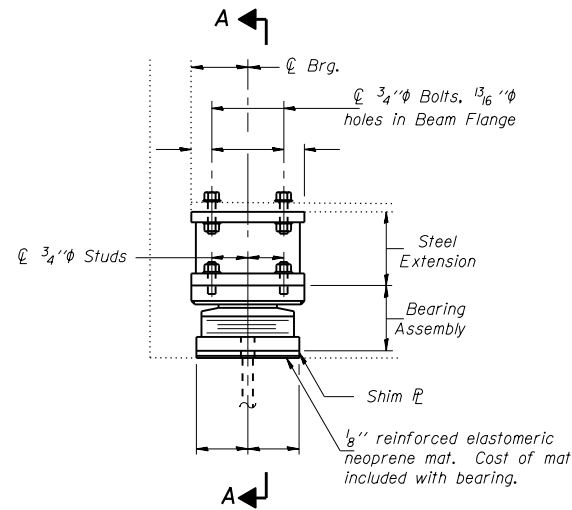
TYI/REPS 01-27-2000

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.								
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BRGDETAILS.DGN	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -																					
	PLOT DATE = 5/10/2016	DATE -	REVISED -																					

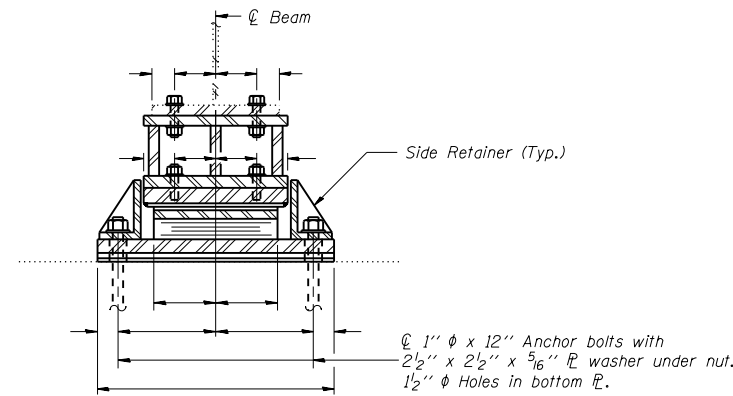
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER REACTIONS

R <sub>1</sub>	(K)	
R <sub>2</sub>	(K)	
Imp.	(K)	
R (Total)	(K)	

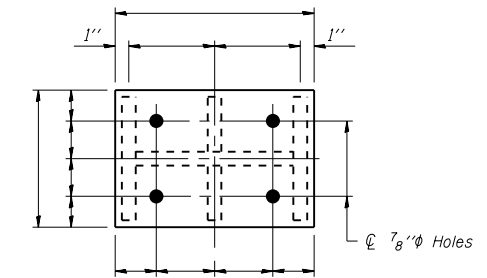


ELEVATION AT ABUTMENT



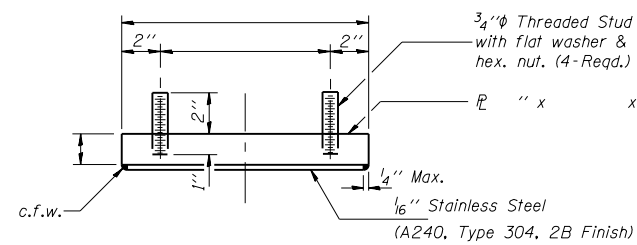
SECTION A-A

Notes: Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included with Furnishing and Erecting Structural Steel.  
New steel extensions, side retainers, shim  $\varnothing$ 's, connection bolts, and anchor bolts are included with Furnishing and Erecting Structural Steel.  
See Sheet of for Anchor Bolt installation.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.  
Min. Jack capacity = Tons.

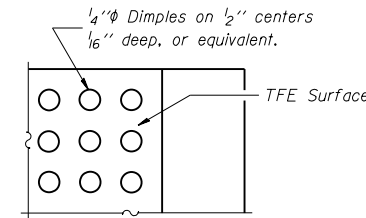


PLAN TOP AND BOTTOM PLATE

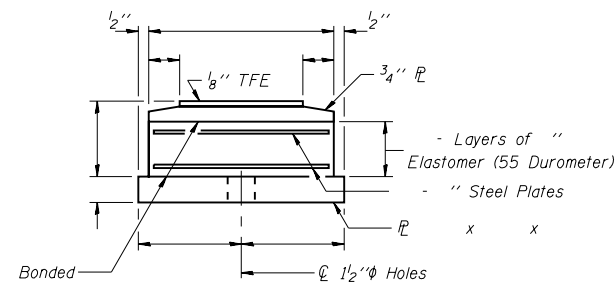
TYPE II TFE ELASTOMERIC EXP. BRG.



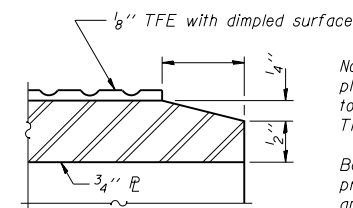
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



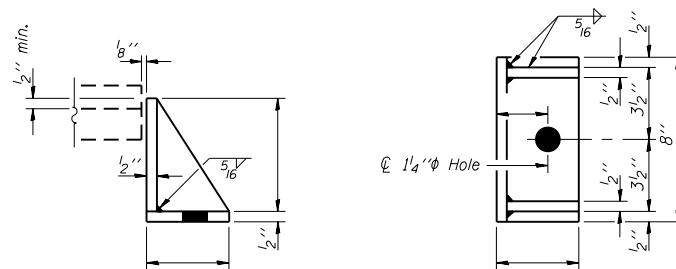
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

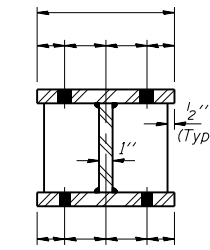
Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

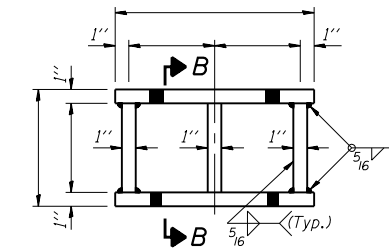


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



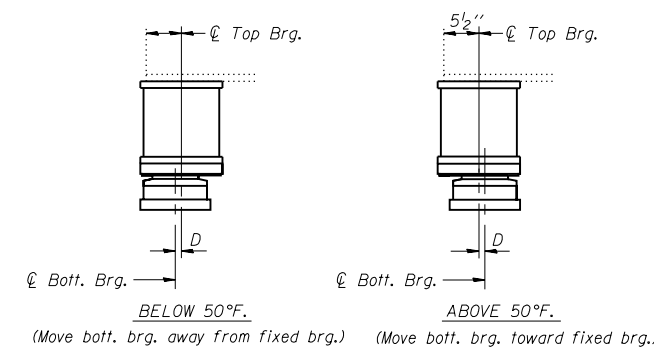
SECTION B-B



STEEL EXTENSION DETAIL

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	



SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED	20
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	ENGINEER OF BRIDGES AND STRUCTURES

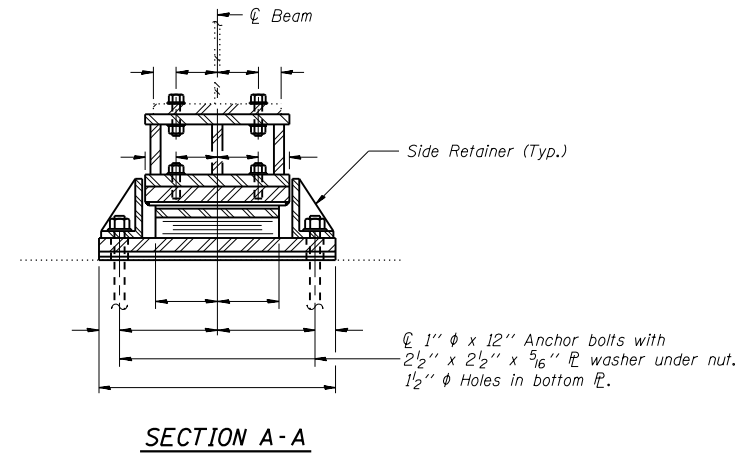
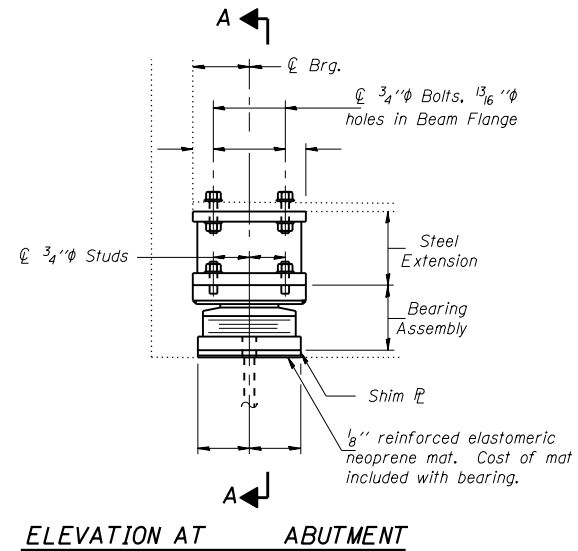
TYII/REPS 01-27-2000 BRGDDETAILS



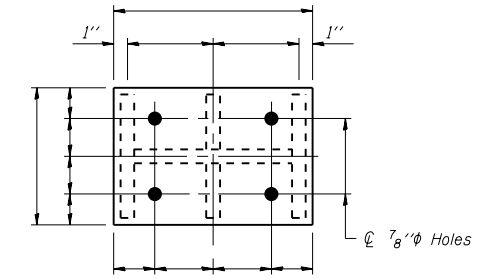
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER REACTIONS

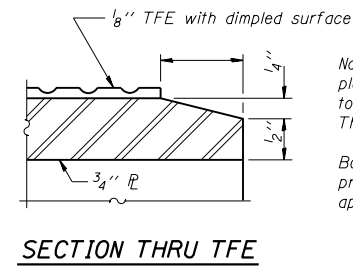
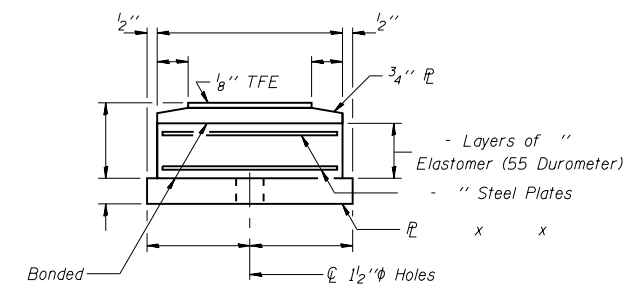
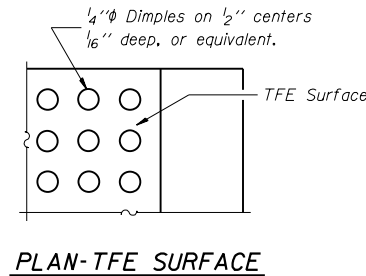
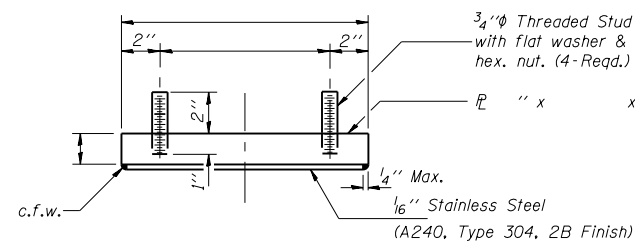
RP	(K)	
Rt	(K)	
Imp.	(K)	
R (Total)	(K)	



Notes: Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included with Furnishing and Erecting Structural Steel.  
New steel extensions, side retainers, shim E's, connection bolts, and anchor bolts are included with Furnishing and Erecting Structural Steel.  
See Sheet of for Anchor Bolt installation.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.  
Min. jack capacity = Tons.

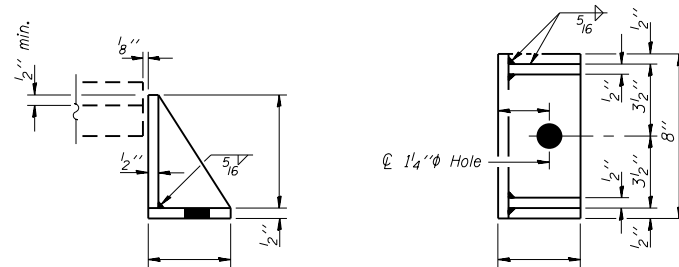
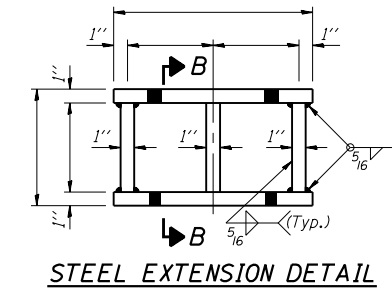
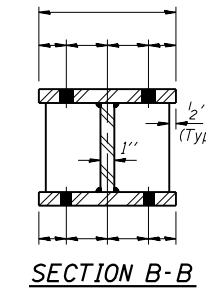


TYPE II TFE ELASTOMERIC EXP. BRG.

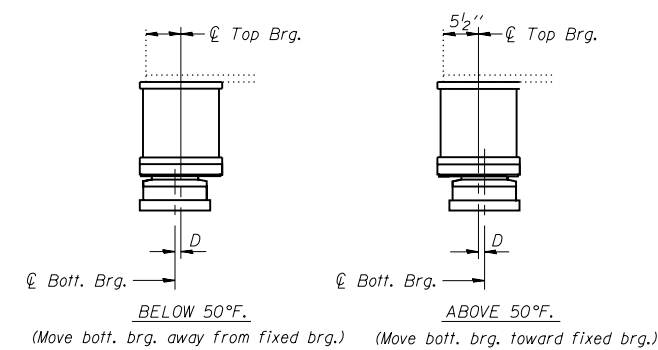


Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



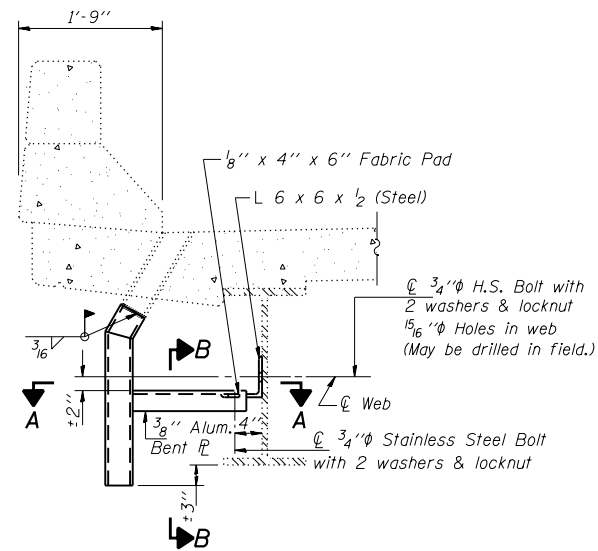
D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

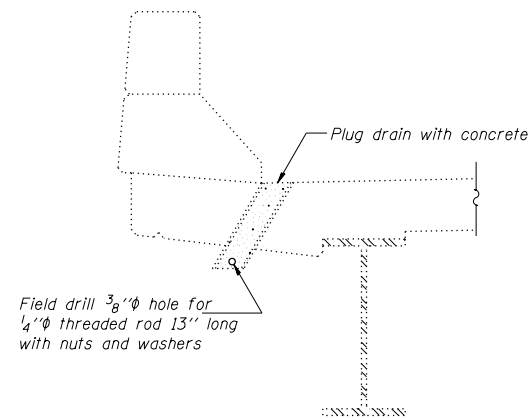
Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	

DESIGNED	20
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	

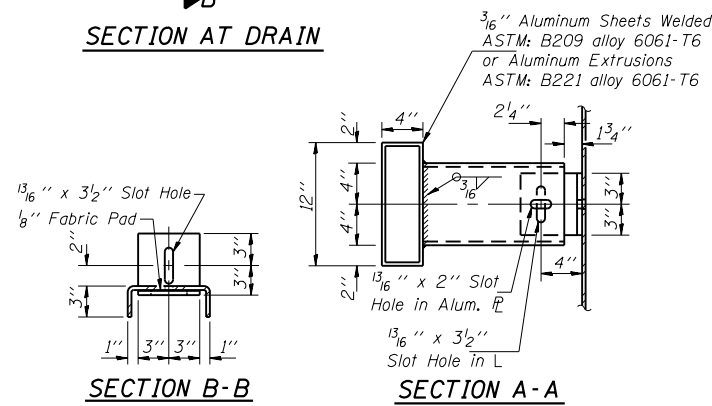
TYII/REPS 01-27-2000 BRGDETAILS



**SECTION AT DRAIN**



**SECTION AT DRAIN**



**SECTION B-B**

**SECTION A-A**

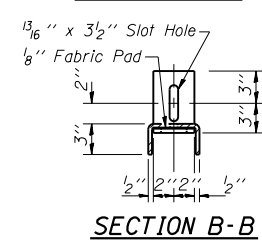
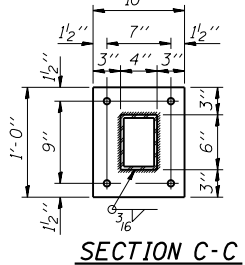
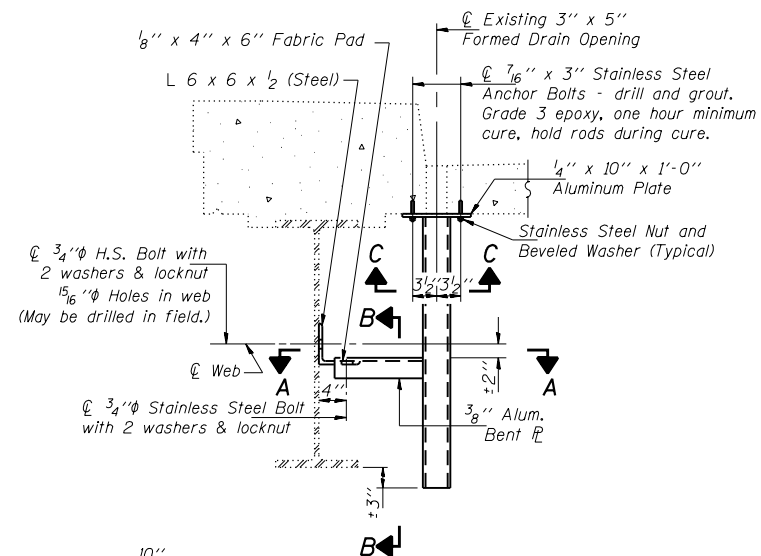
**DRAIN EXTENSION DETAIL**

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
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	PLOT DATE = 5/10/2016		

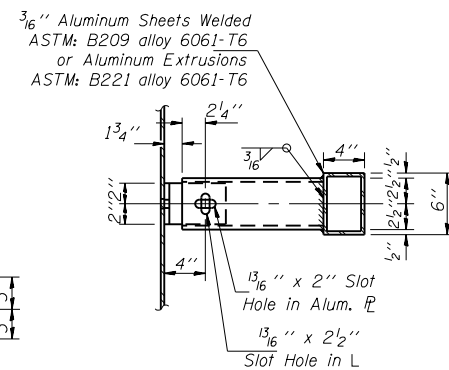
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**SECTION AT DRAIN**



**SECTION A-A**

**DRAIN EXTENSION DETAIL**

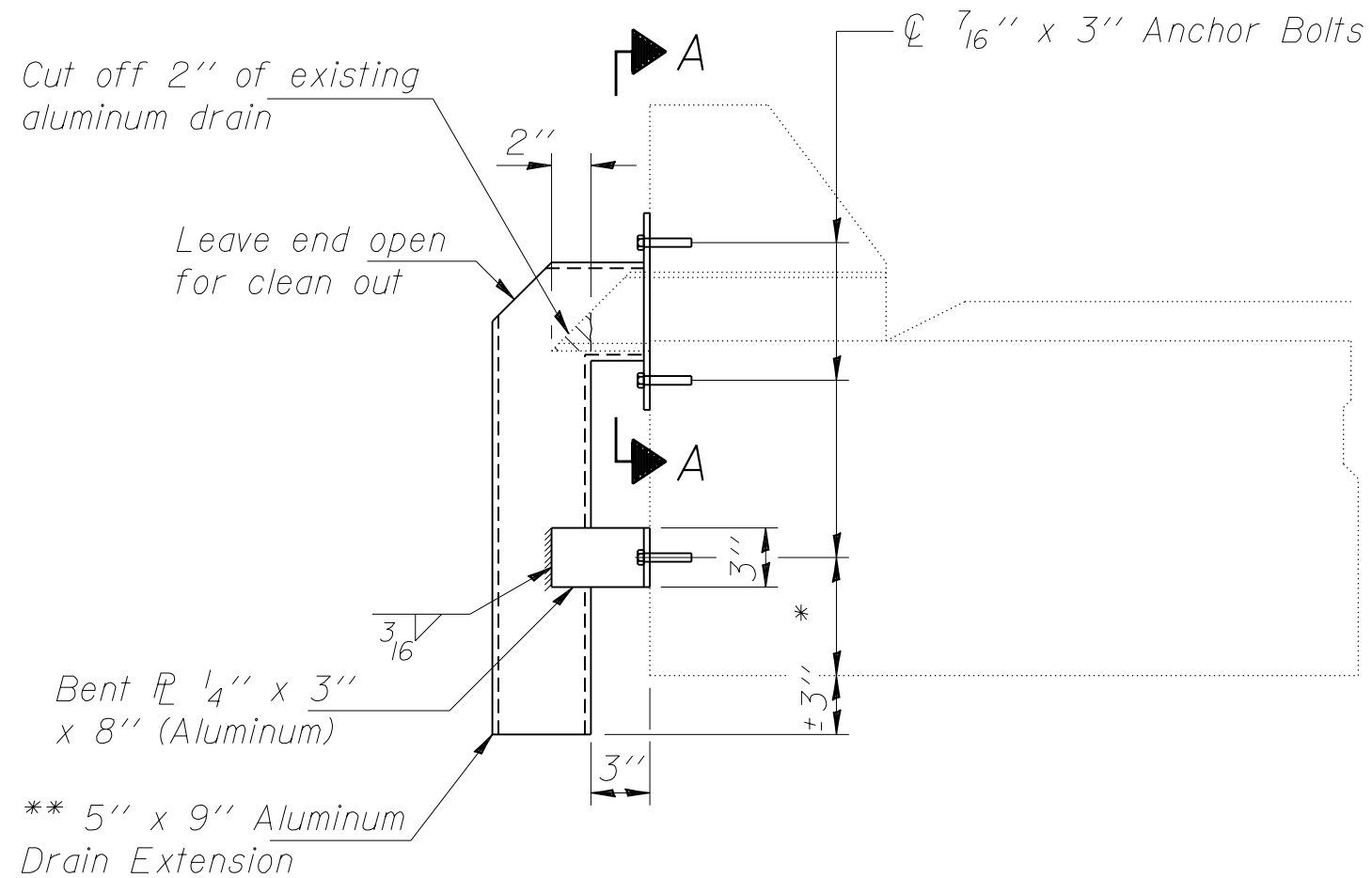
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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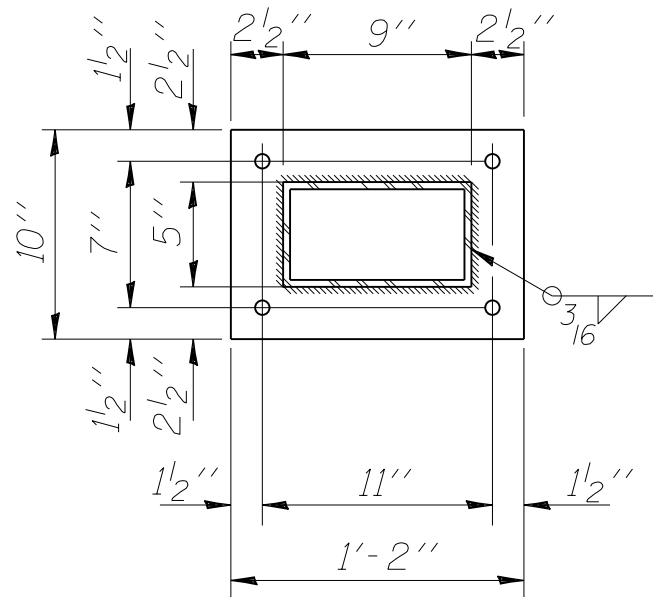
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				





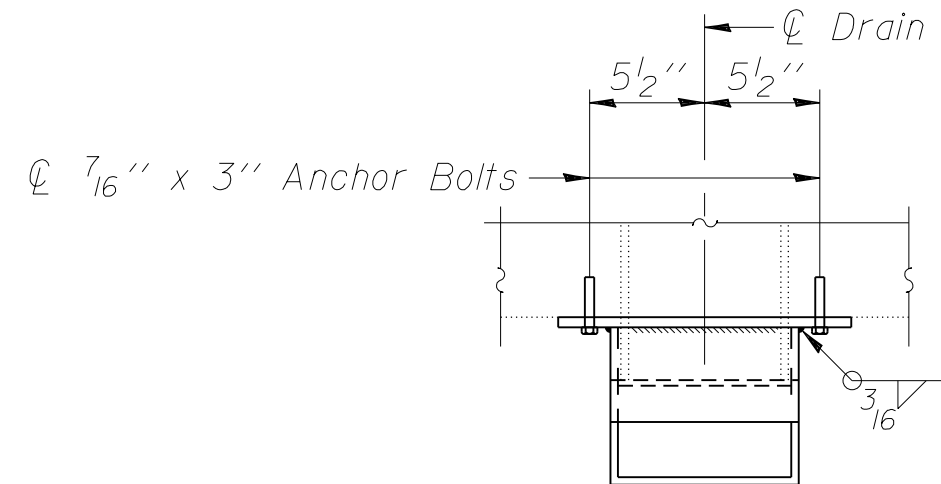
**SECTION AT DRAIN**

\* Designer locate to miss existing prestressing strands.  
 \*\* 3/16" Aluminum Sheets (Welded)  
 ASTM: B209 alloy 6061-T6.



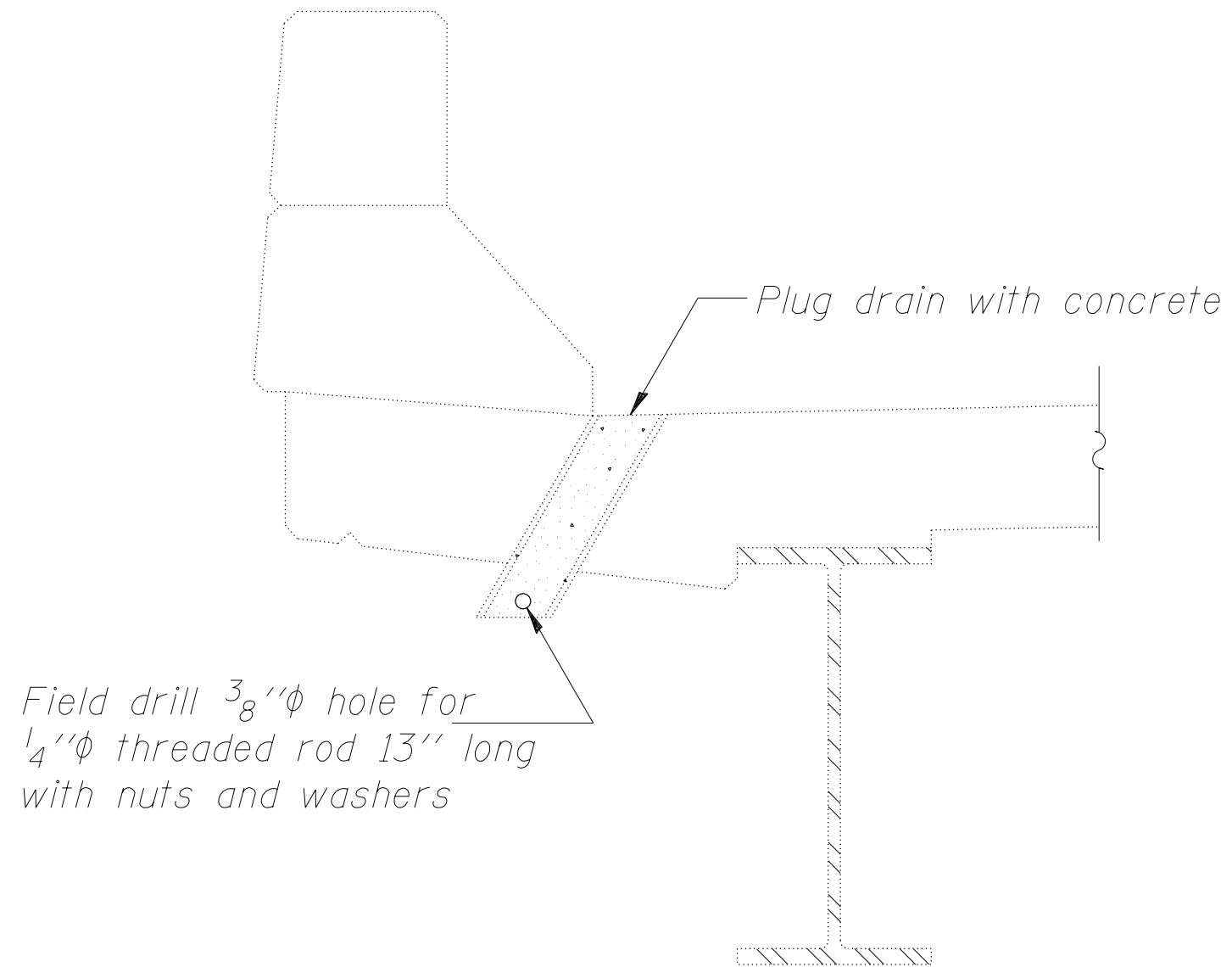
**SECTION A-A**

R 1/4" x 10" x 1'-2" (Aluminum)



**TOP PLAN**

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAIN EXTENSION DETAIL</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 5/10/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



SECTION AT DRAIN

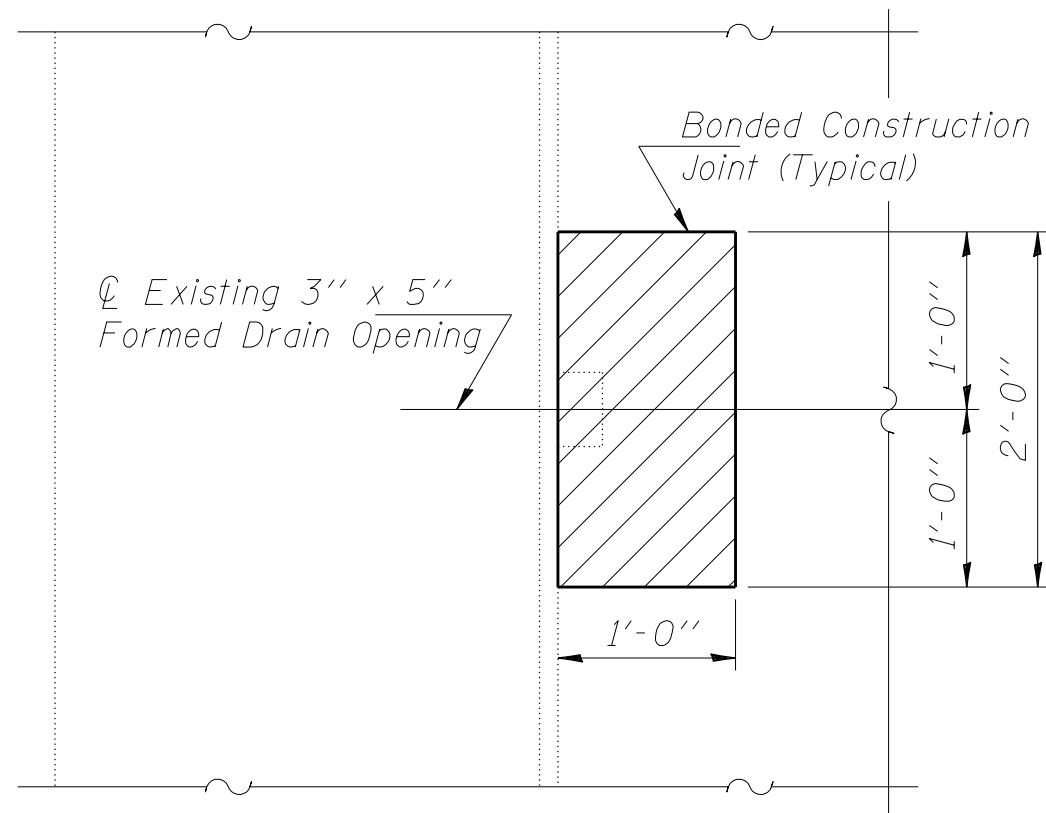
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

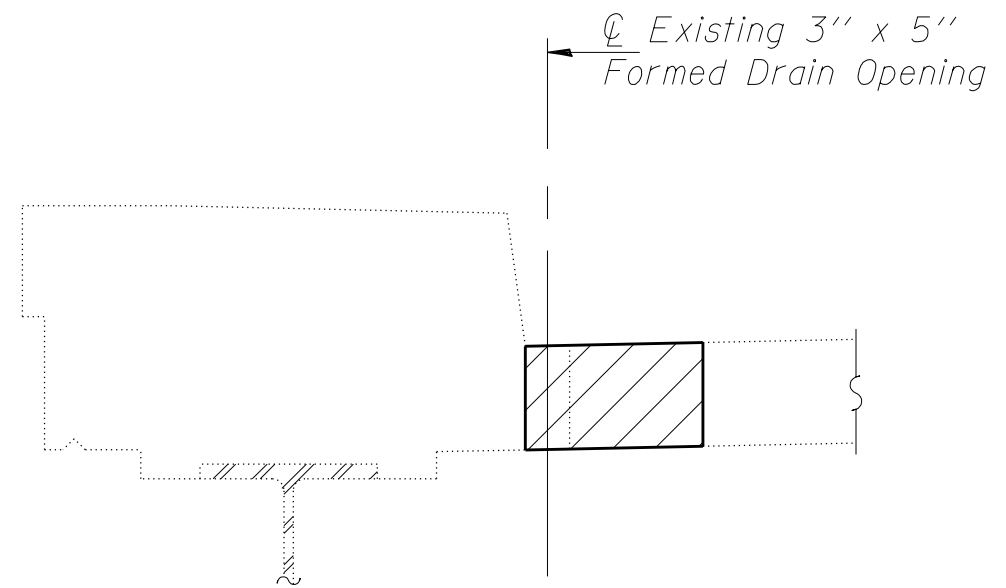
**DRAIN ELIMINATION DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



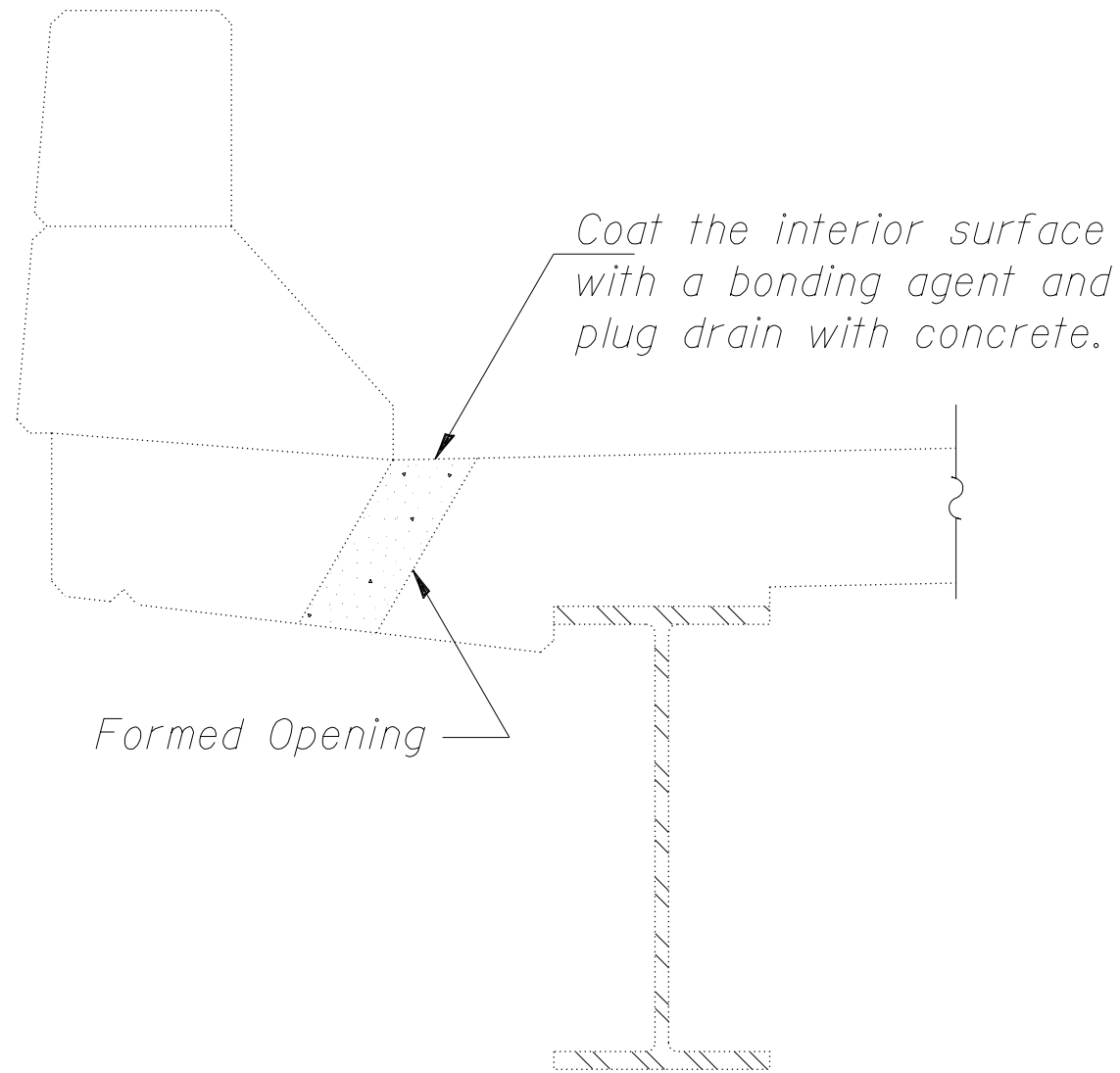
PARTIAL PLAN



SECTION AT DRAIN

Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut  $\frac{3}{4}$ " prior to the removal of concrete.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAIN EXTENSION DETAIL</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.	
											ILLINOIS FED. AID PROJECT	



SECTION AT DRAIN

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
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		DATE -	REVISED -

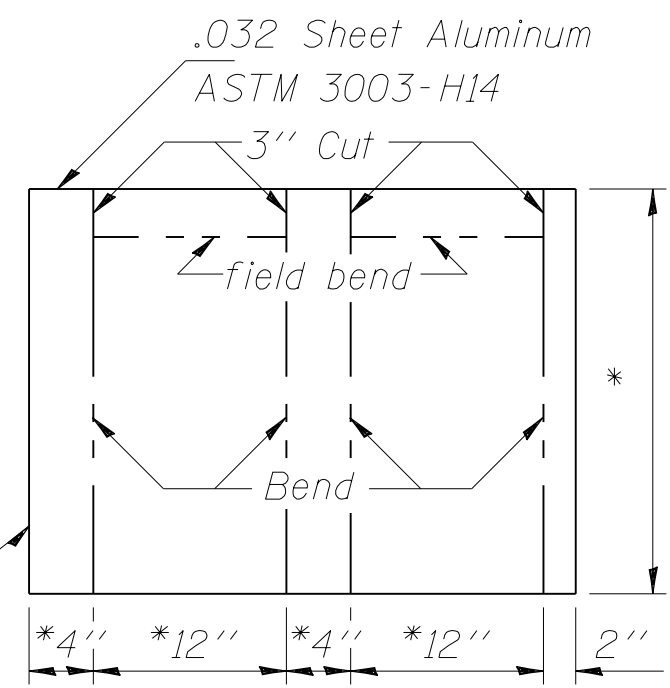
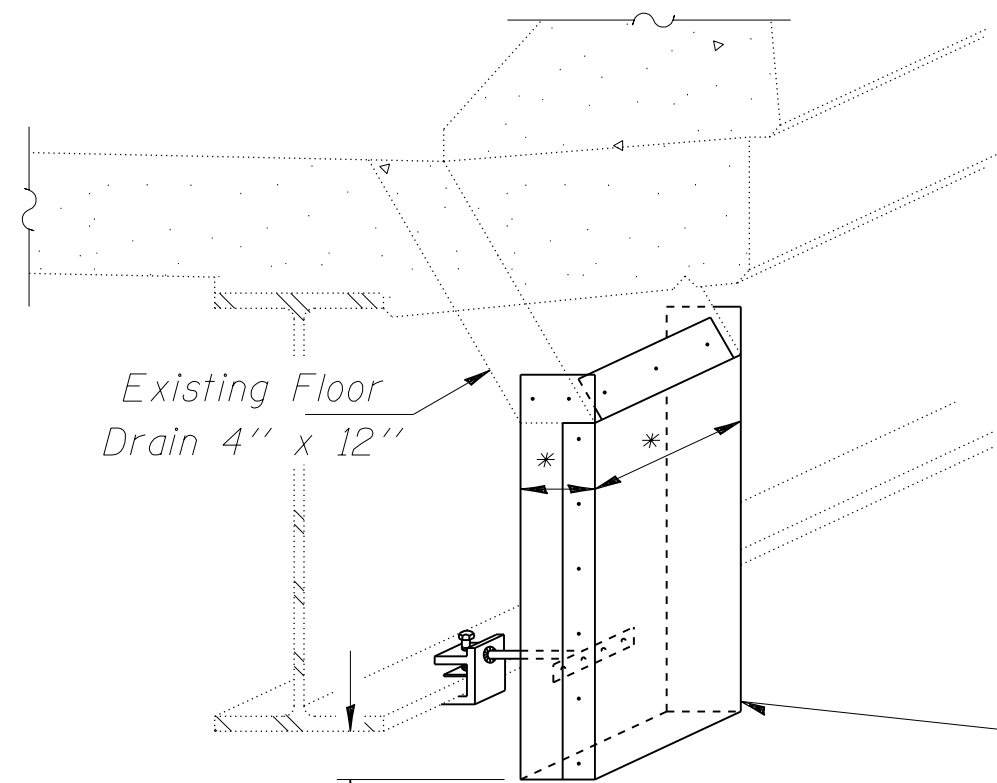
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAIN ELIMINATION DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

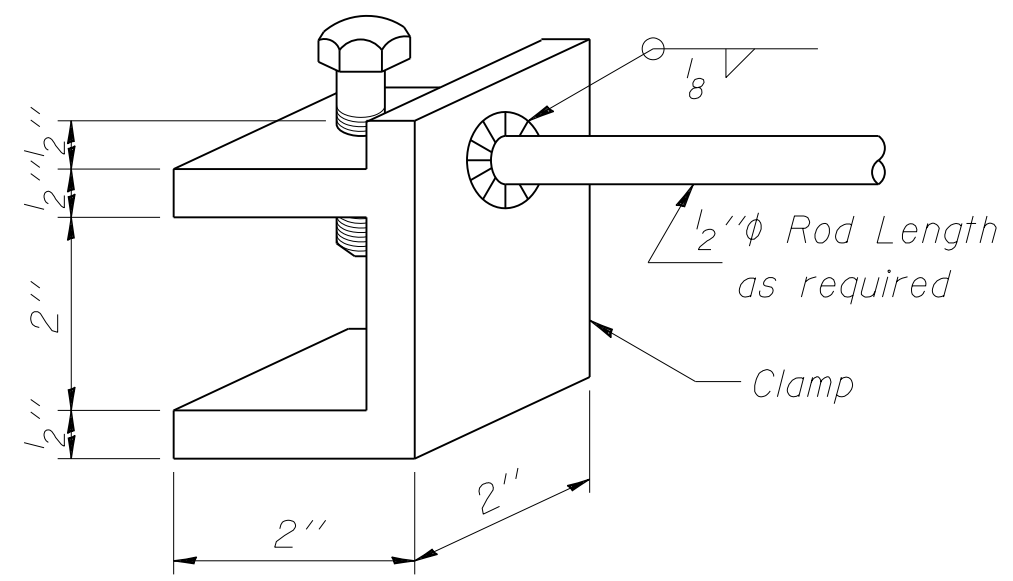
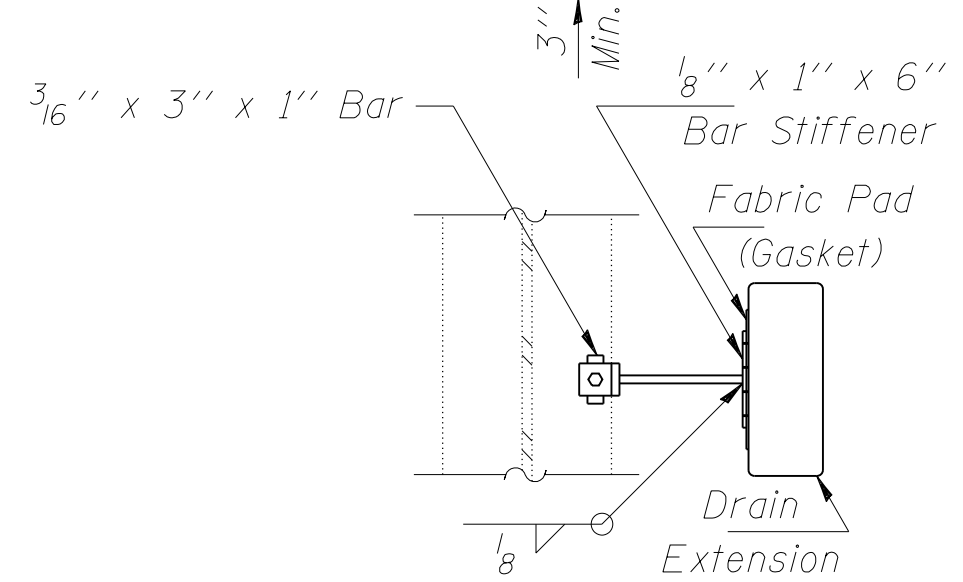
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				





Drain Extension

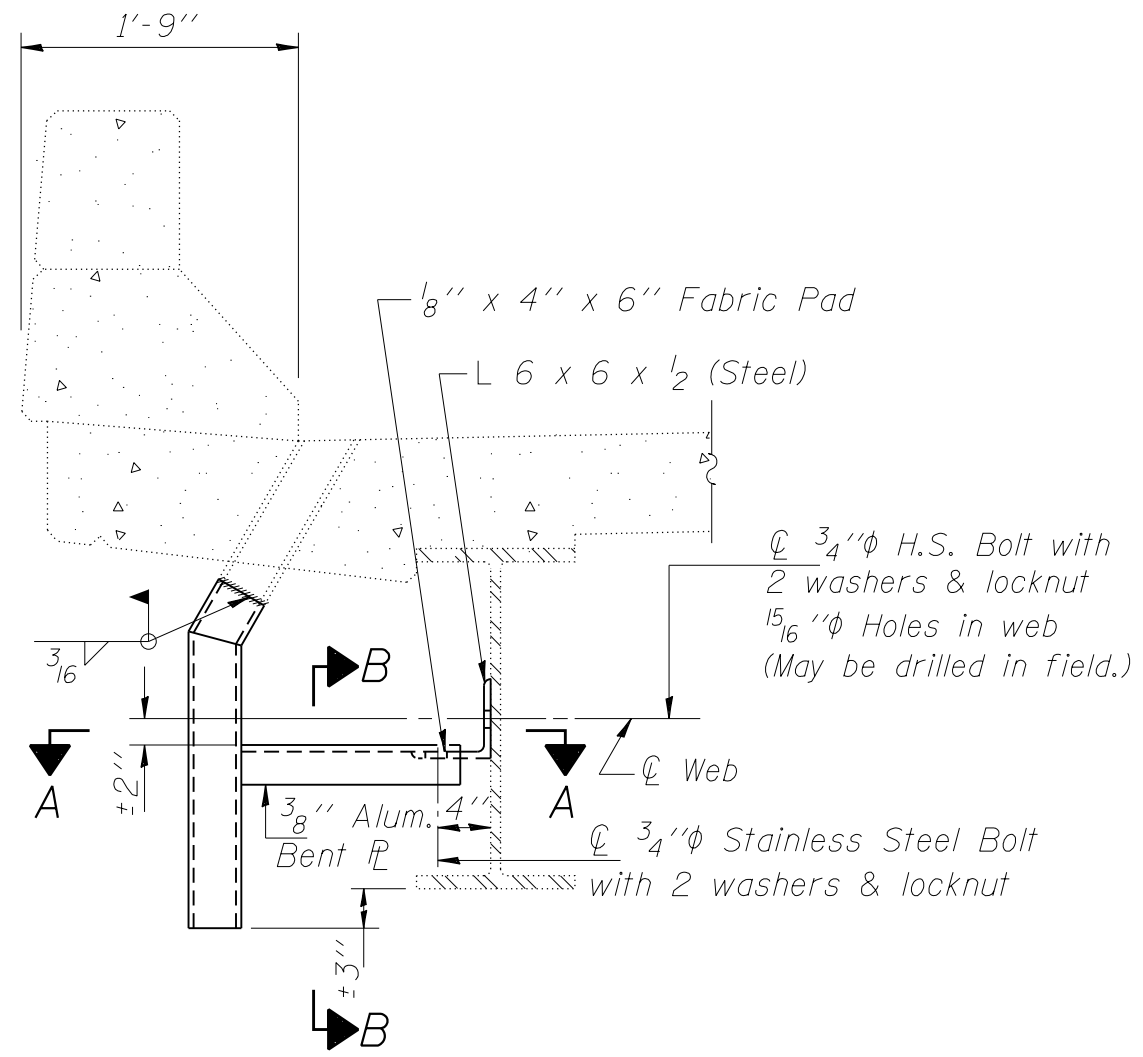
Drill and pop rivet 2" from each corner and on 4" cts. along top edge into existing drains on 8" cts. at side seam.



STEEL CLAMP

Notes:  
 Pop rivet the 1/8" x 1" bar to Drain Extension. Weld or securely attach rod to both the clamp and bar stiffener. Use 3/16" stainless steel pop rivets of sufficient length.  
 Clamp shown in approximate dimensions. Similar commercially available may be substituted.  
 \* Field measure cut to fit existing drain.  
 An aluminum extrusion drain extension of similar dimensions may be substituted.

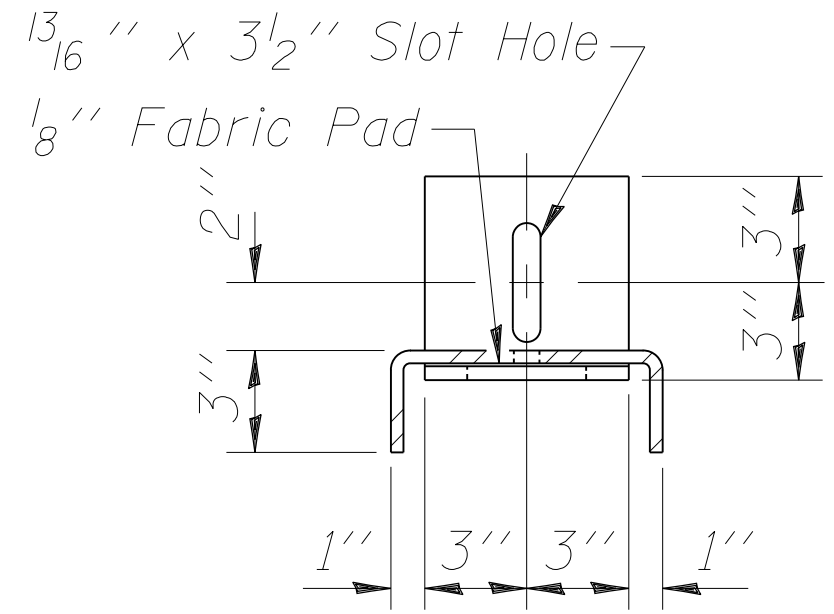
FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAIN EXTENSION DETAIL</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-drains2.dgn		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



$\varnothing$   $\frac{3}{4}$ "  $\phi$  H.S. Bolt with  
2 washers & locknut  
 $\frac{15}{16}$ "  $\phi$  Holes in web  
(May be drilled in field.)

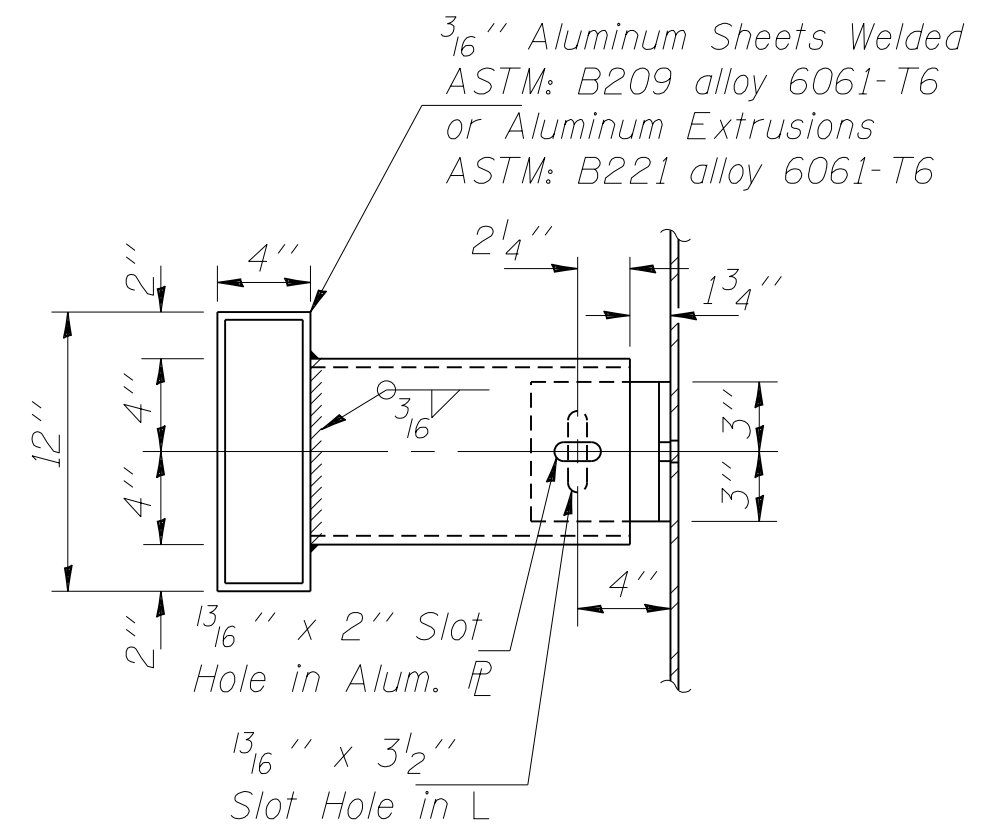
$\varnothing$   $\frac{3}{4}$ "  $\phi$  Stainless Steel Bolt  
with 2 washers & locknut

SECTION AT DRAIN



$\frac{13}{16}$ " x  $3\frac{1}{2}$ " Slot Hole  
 $\frac{1}{8}$ " Fabric Pad

SECTION B-B

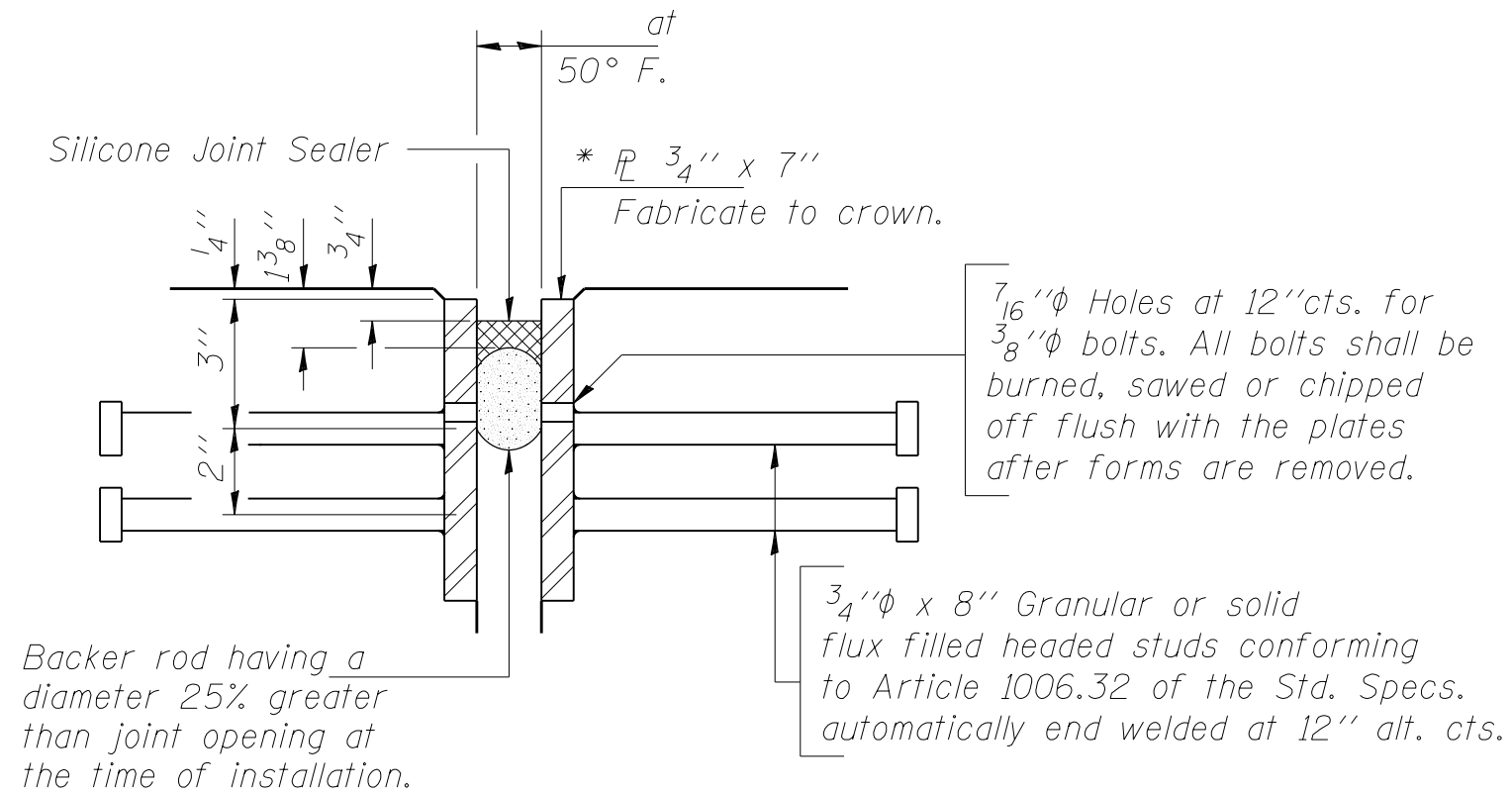


$\frac{3}{16}$ " Aluminum Sheets Welded  
ASTM: B209 alloy 6061-T6  
or Aluminum Extrusions  
ASTM: B221 alloy 6061-T6

$\frac{13}{16}$ " x 2" Slot  
Hole in Alum. P  
 $\frac{13}{16}$ " x  $3\frac{1}{2}$ "  
Slot Hole in L

SECTION A-A

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAIN EXTENSION DETAIL</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-drains2.dgn		DRAWN	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.		
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										



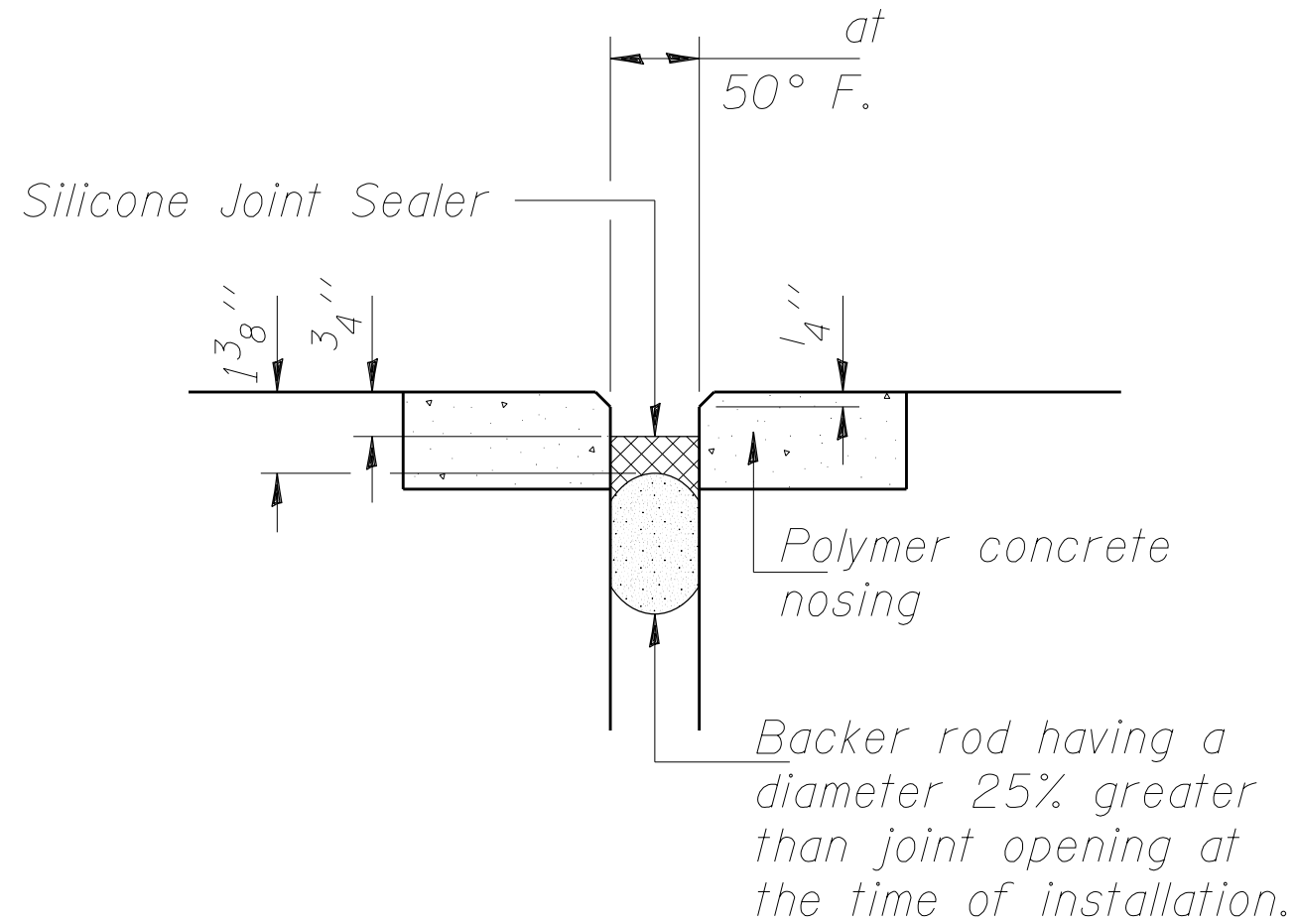
\* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.

Note: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.

### SILICONE JOINT SEALER DETAIL

### DESIGN CHART

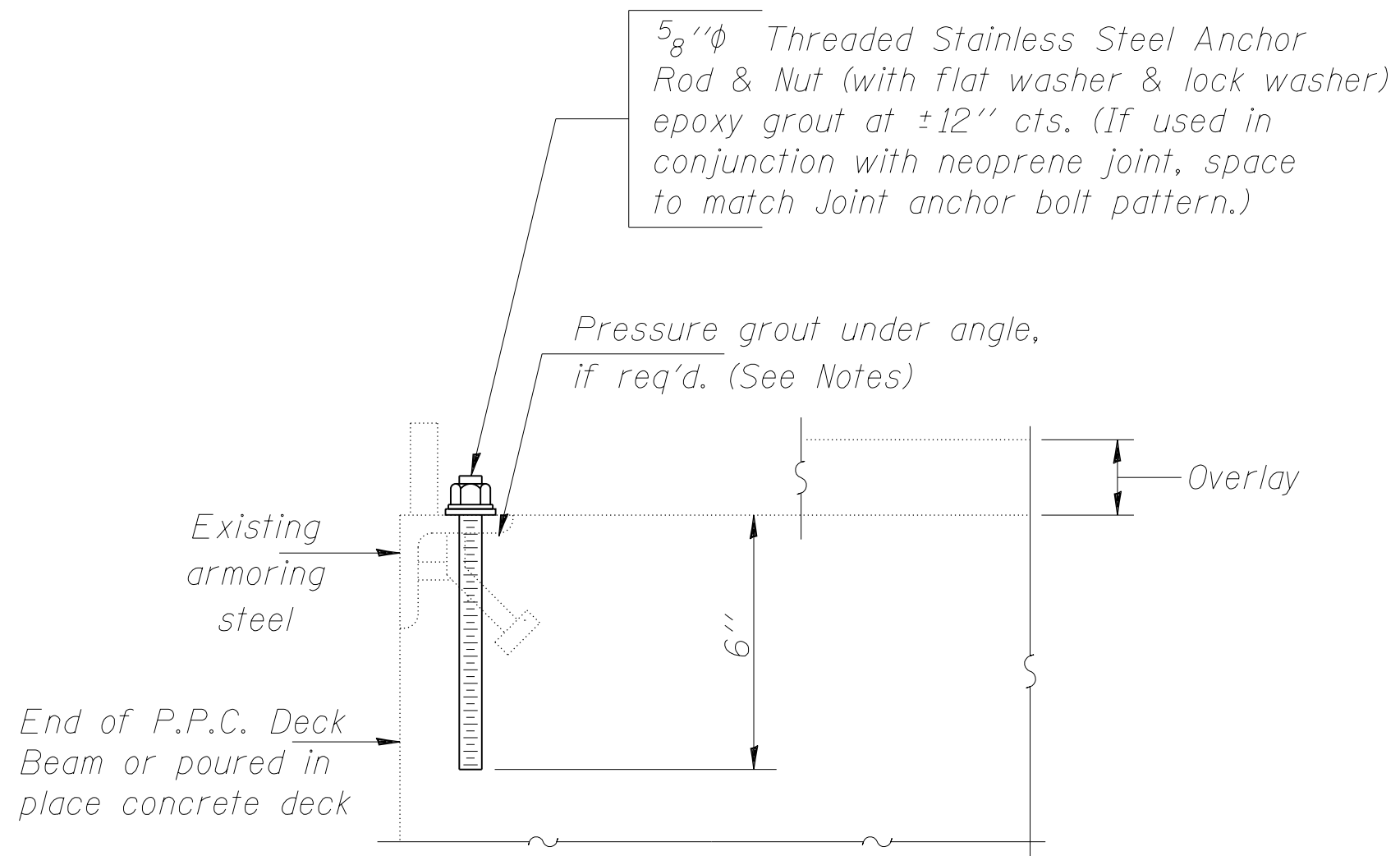
Length Contributing to Expansion	0'-40'	40'-80'	80'-120'	120'-160'	160'-200'
Joint Opening at 50° F	1"	1 1/2"	2"	2 1/2"	3"



## SILICONE JOINT SEALER DETAIL

### DESIGN CHART

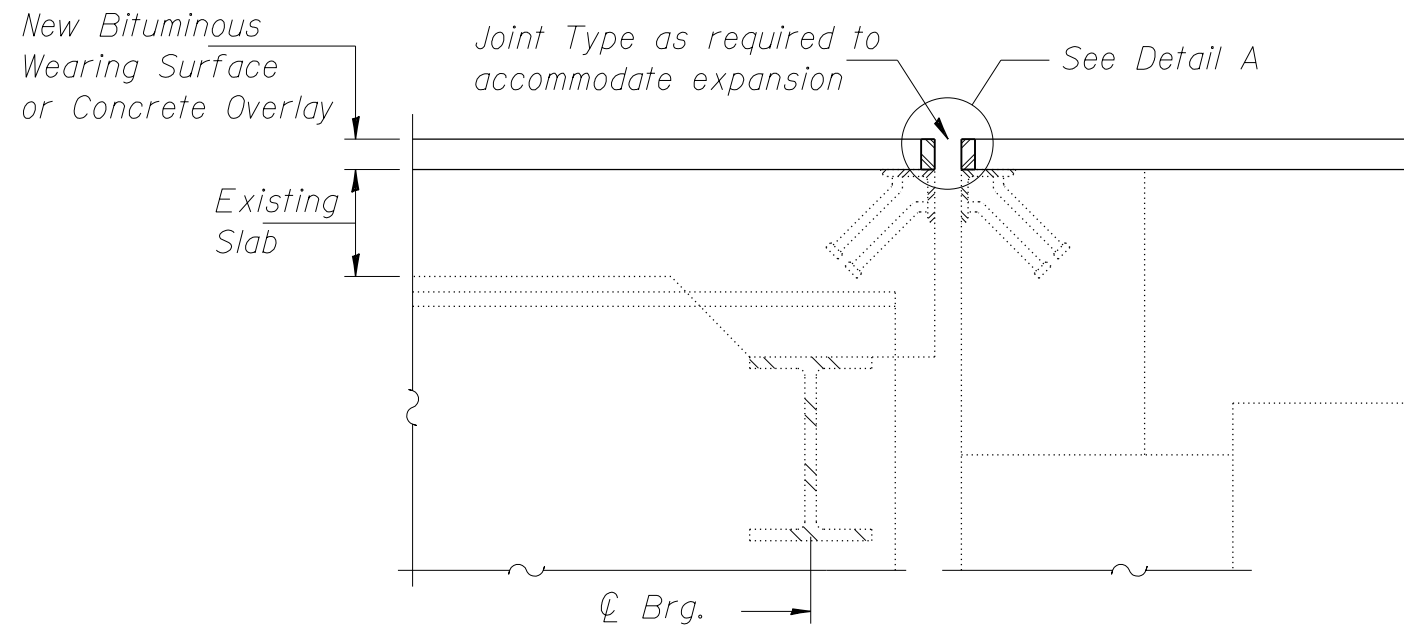
<i>Length Contributing to Expansion</i>	<i>0'-40'</i>	<i>40'-80'</i>	<i>80'-120'</i>	<i>120'-160'</i>	<i>160'-200'</i>
<i>Joint Opening at 50° F</i>	<i>1"</i>	<i>1 1/2"</i>	<i>2"</i>	<i>2 1/2"</i>	<i>3"</i>



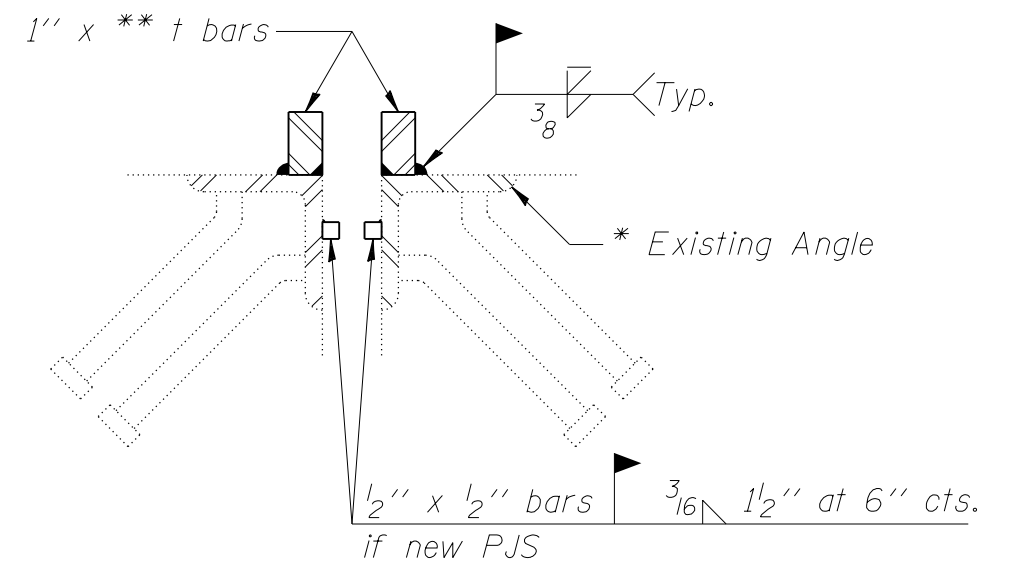
Notes: Loose angles will be bolted to the end of the deck or P.P.C. deck beams by field drilling holes through the existing angles and epoxy grouting threaded rods into the deck.

If the existing angles sound loose after the epoxy grouted rods are in place, holes will be drilled through the angles and epoxy injected under the angles.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RE-ANCHORING EXISTING LOOSE EXPANSION ANGLES</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn		CHECKED -	REVISED -					CONTRACT NO.					
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	
PLOT DATE = 5/10/2016													



SECTION AT ABUTMENT

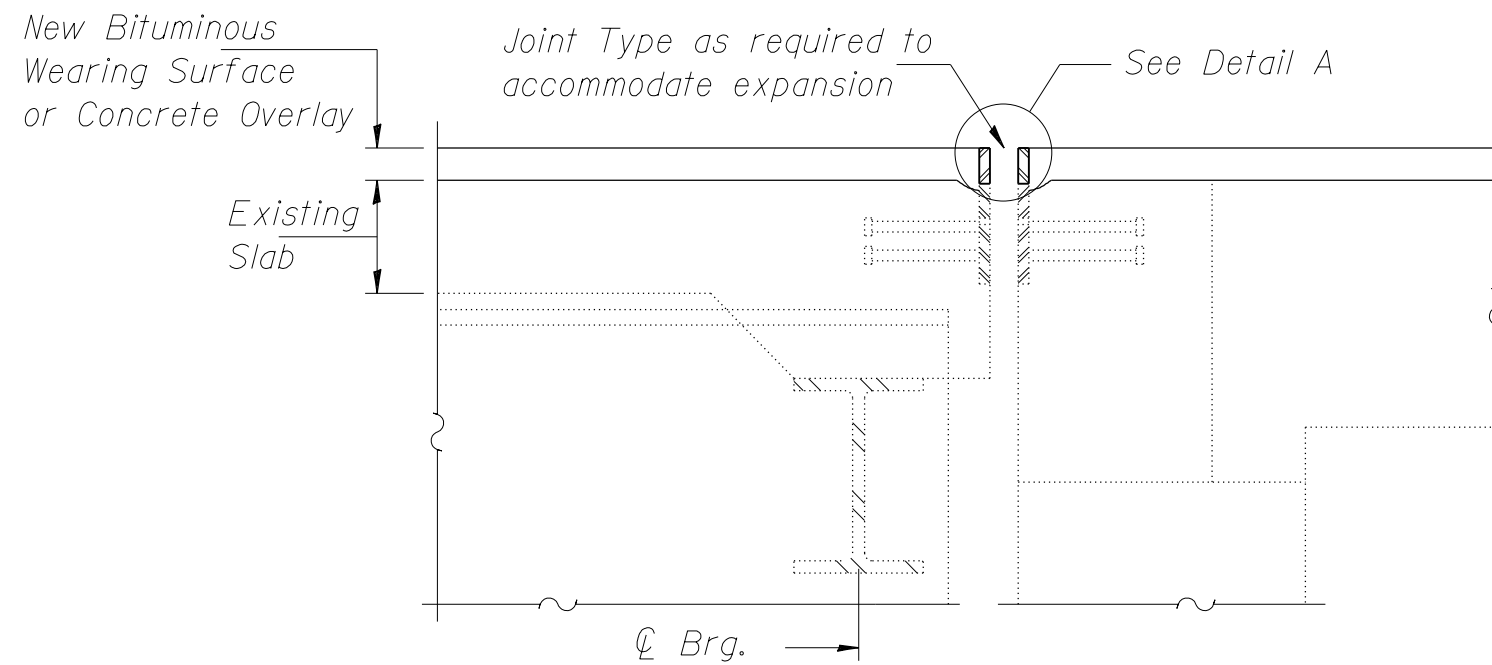


DETAIL A

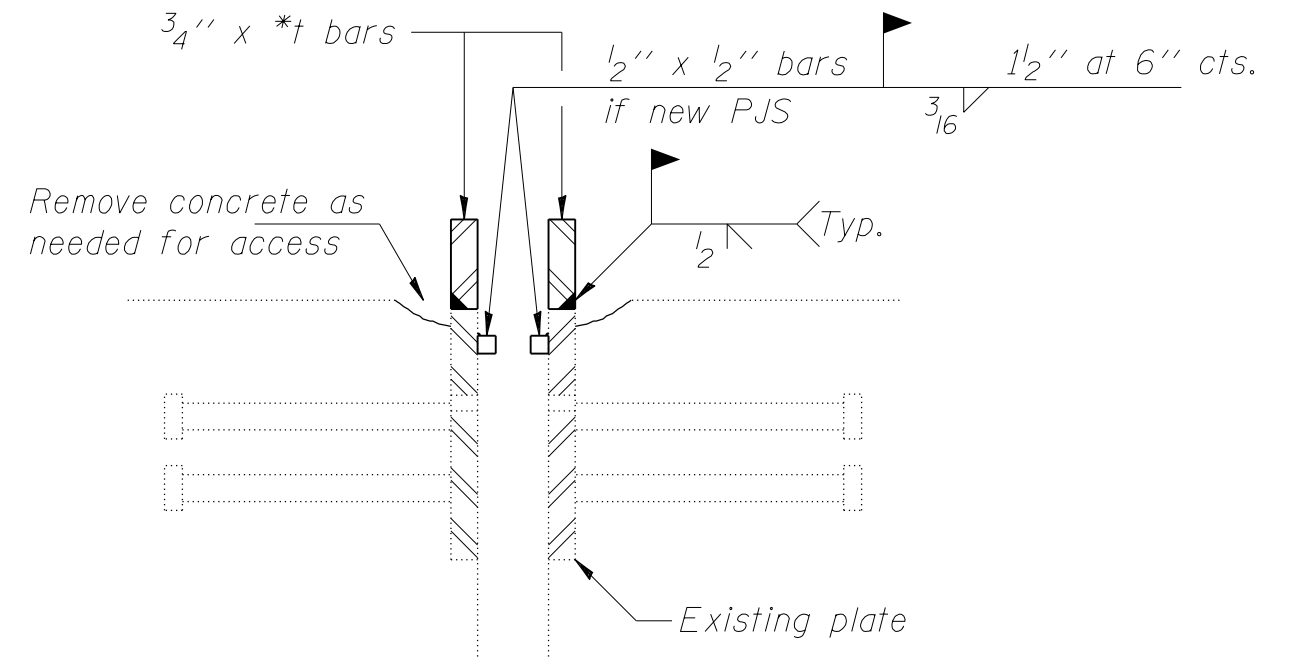
\* Re-anchoring of existing angles may be required. See Figure 1.5.3-1

\*\* t = Thickness of Bituminous Surface or Concrete Overlay.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXPANSION JOINT TREATMENT WITH GRADE RAISE AND EXISTING ANGLES</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\500-jointdetails.dgn	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					CONTRACT NO.			ILLINOIS FED. AID PROJECT		
PLOT DATE = 5/10/2016	DATE -	REVISED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



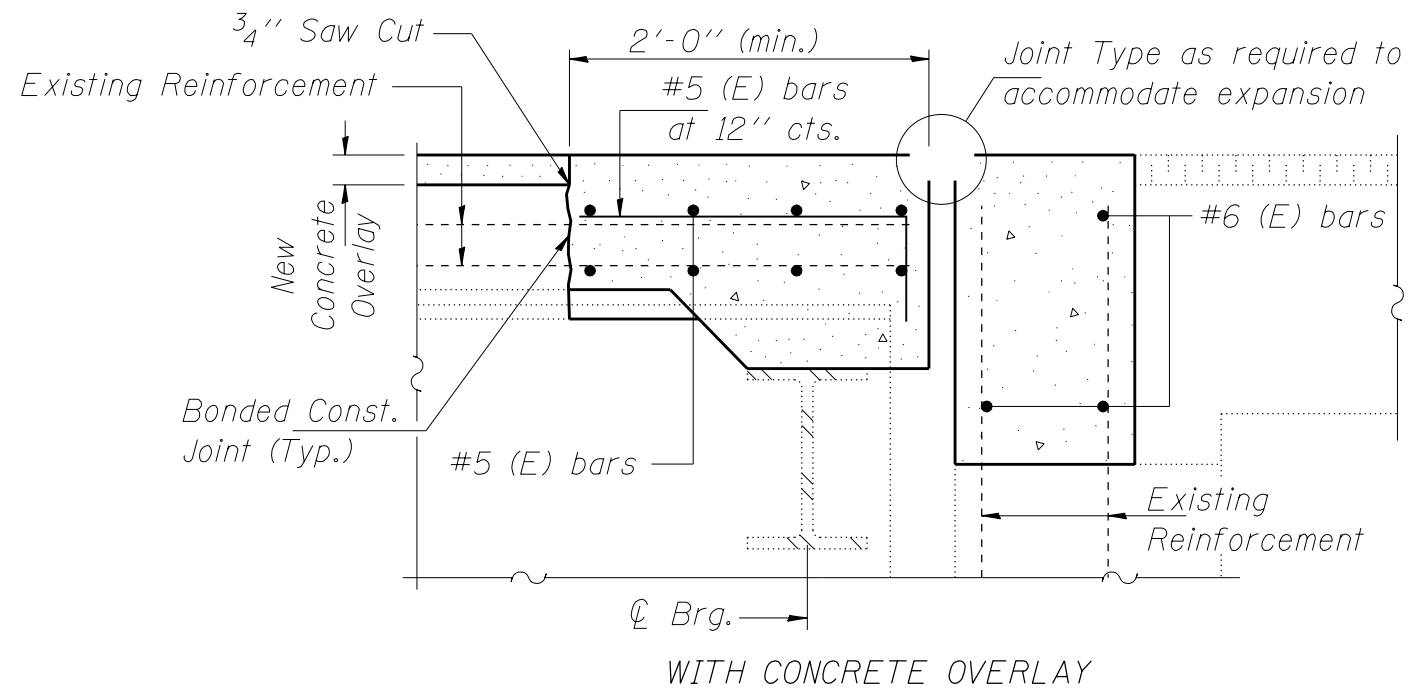
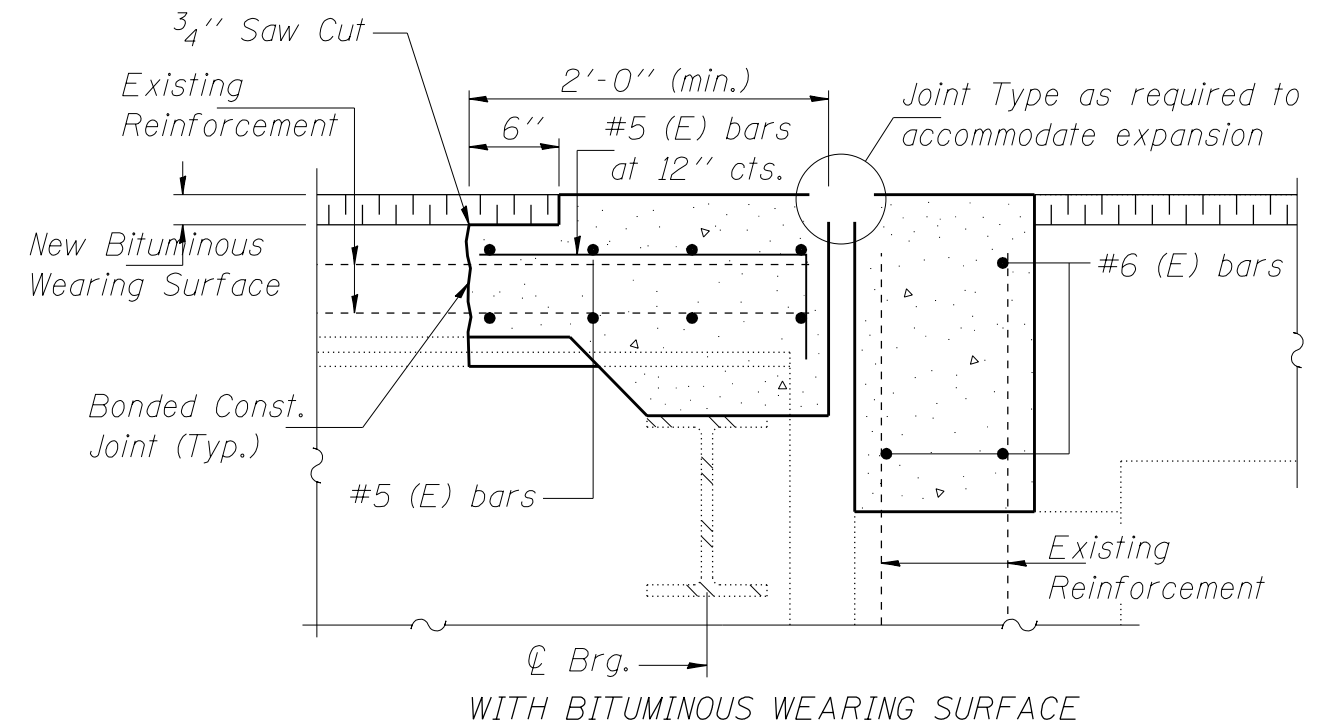
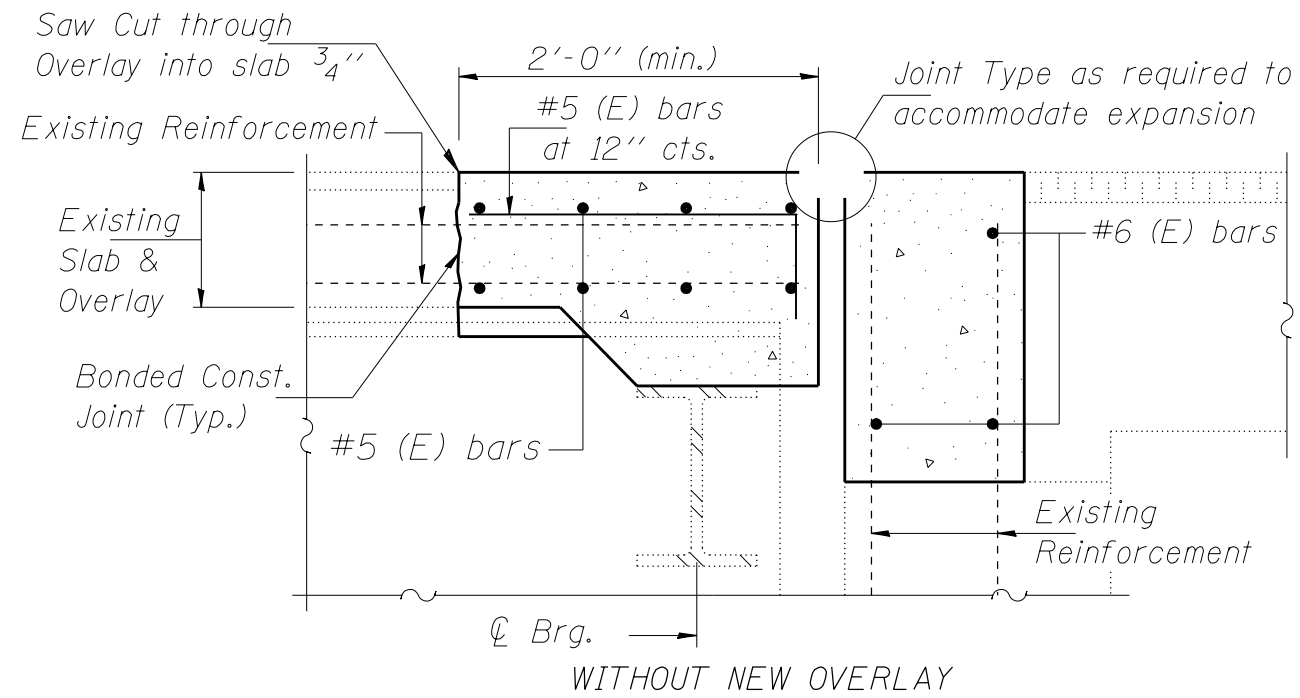
SECTION AT ABUTMENT



DETAIL A

\* *t* = Thickness of Bituminous Surface or Concrete Overlay.

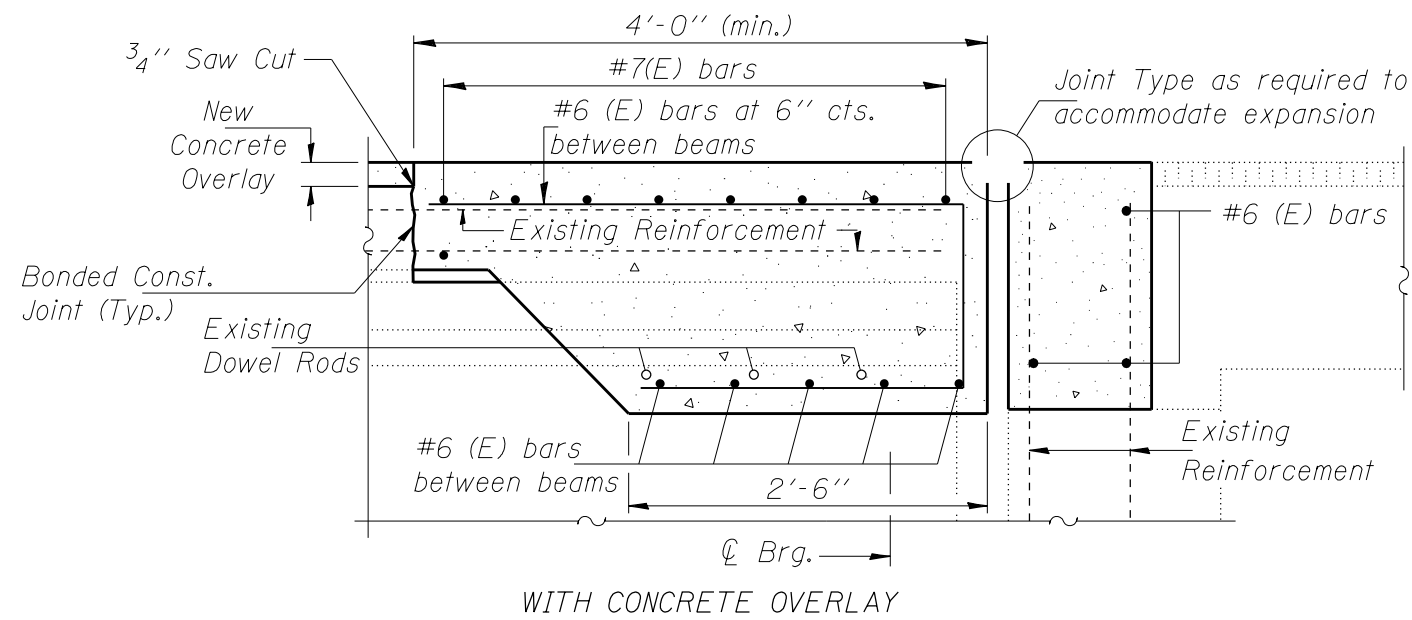
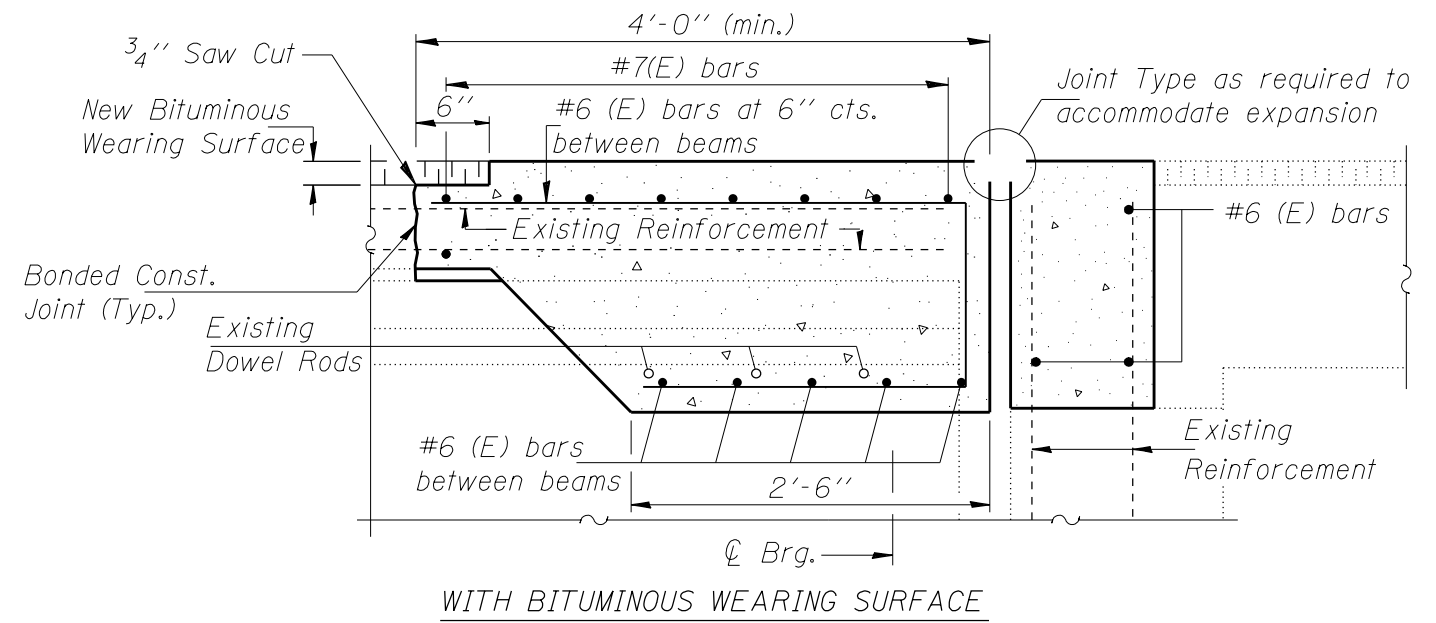
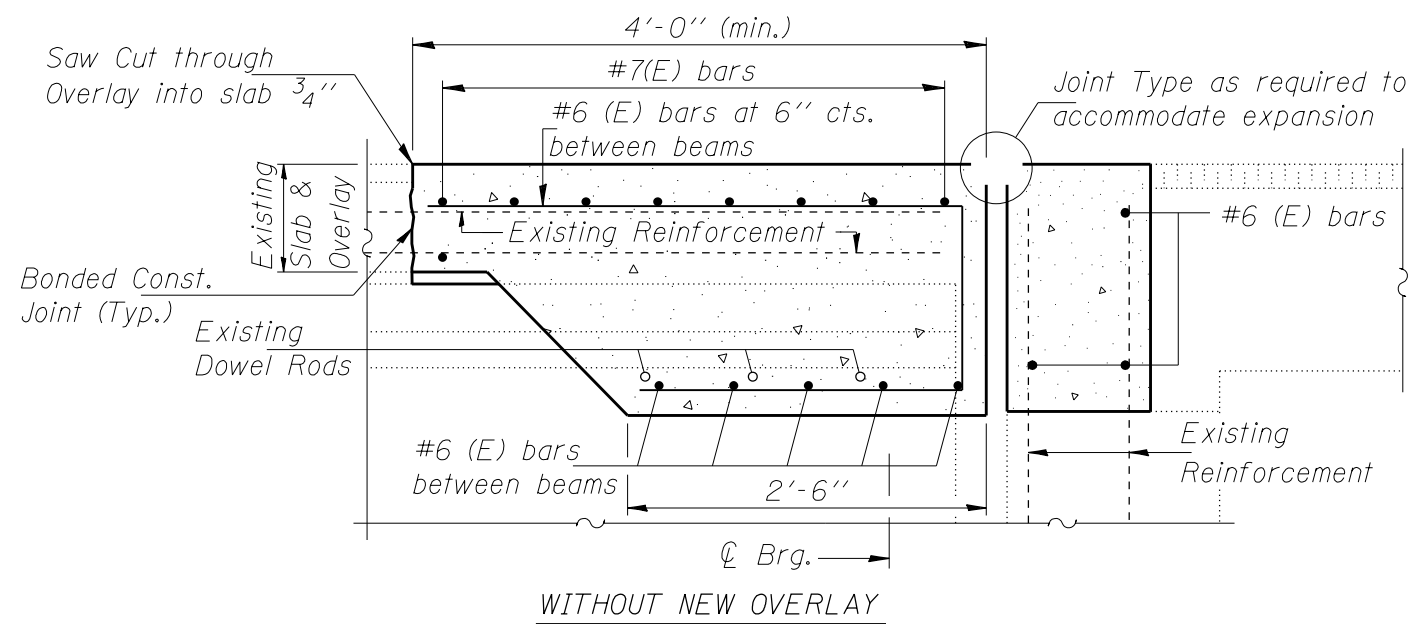
FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXPANSION JOINT TREATMENT WITH GRADE RAISE AND EXISTING PLATES</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 5/10/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



Note: Existing Reinforcement Bars shown are to be cleaned and incorporated into new construction.

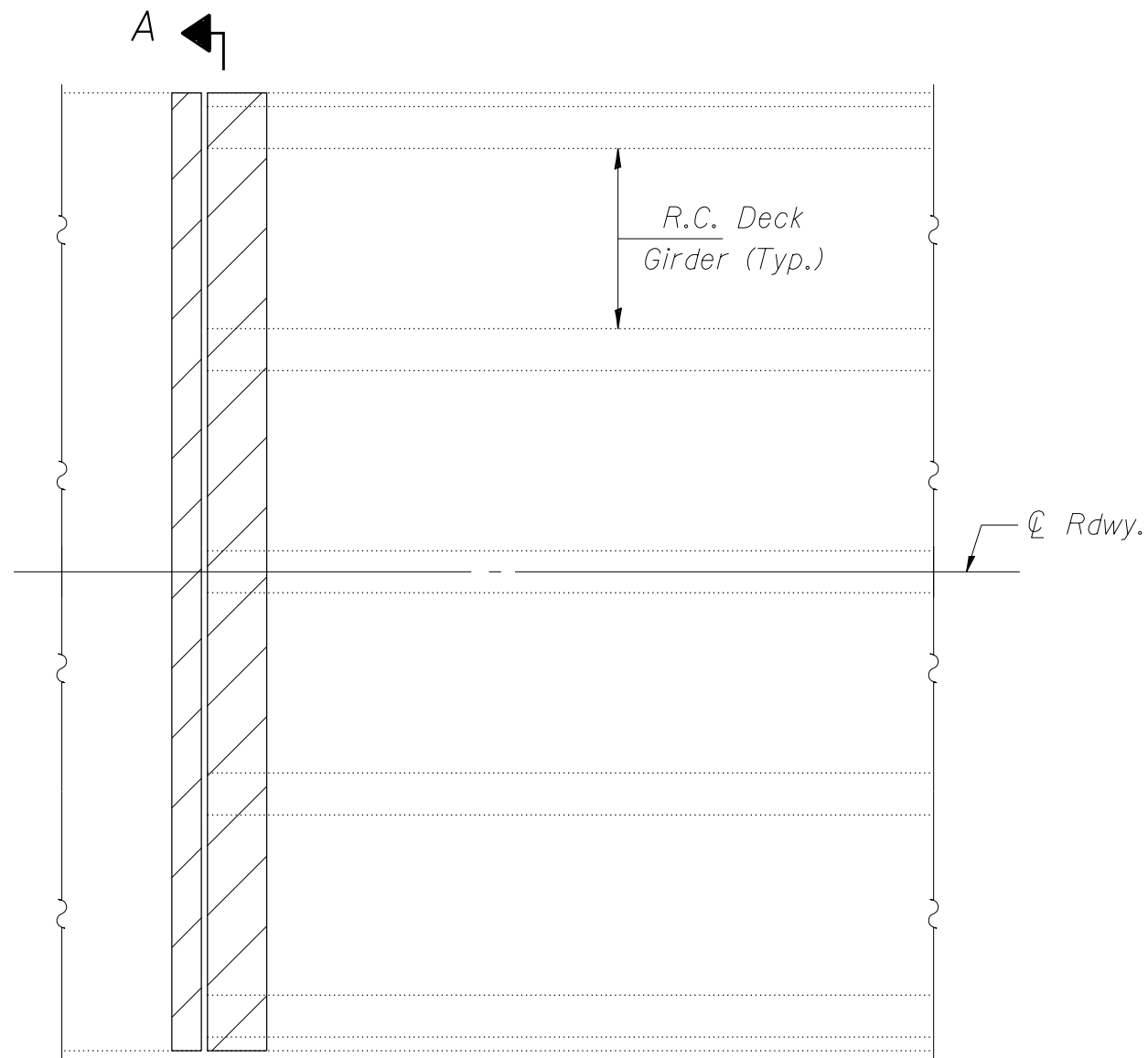
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p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn		CHECKED -	REVISED -						SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.				CONTRACT NO.
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PLOT DATE = 5/10/2016													



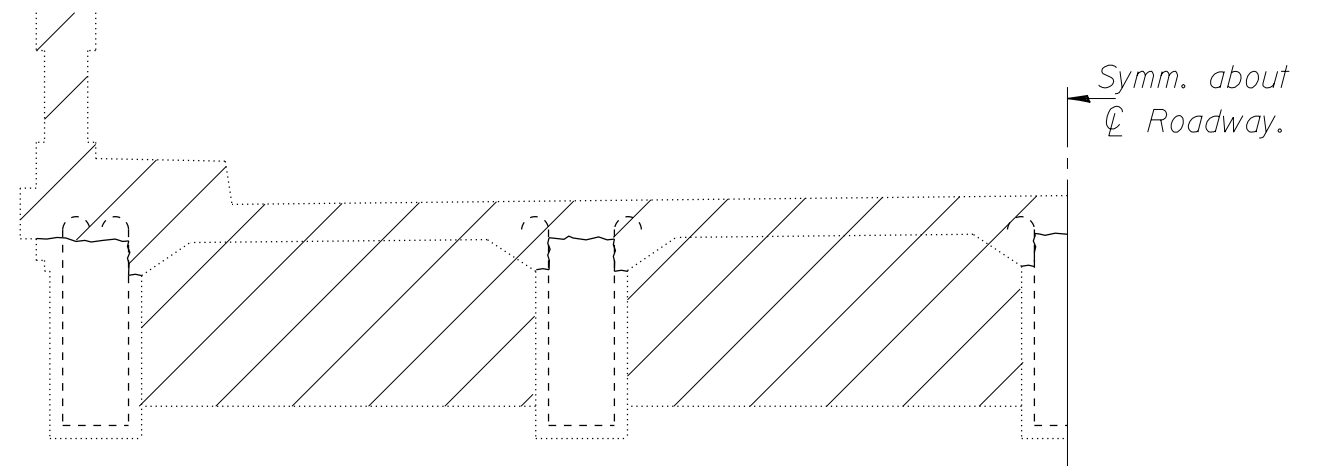


Note: Existing Reinforcement Bars and Dowel Rods shown are to be cleaned and incorporated into new construction.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>JOINT RECONSTRUCTION FOR PCC I BEAMS</b>				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
PLOT DATE = 5/10/2016													



**PARTIAL PLAN**  
*(Handrail and Sidewalks  
 not shown for clarity)*



**SECTION A-A**

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn		DRAWN -	REVISED -
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	PLOT DATE = 5/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**R.C. DECK GIRDER  
 CONCRETE REMOVAL**

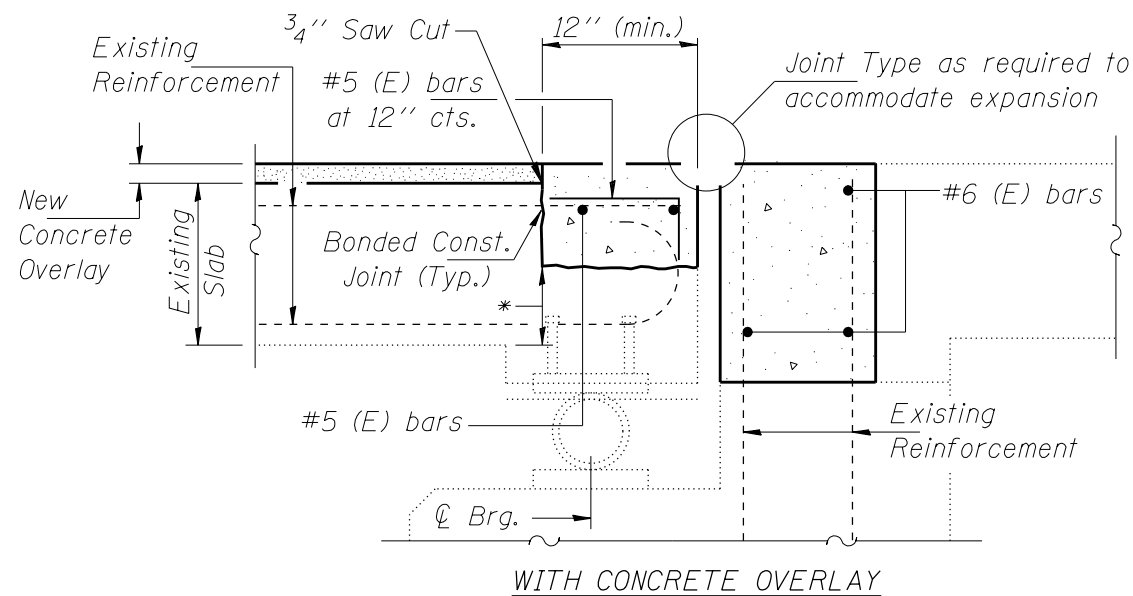
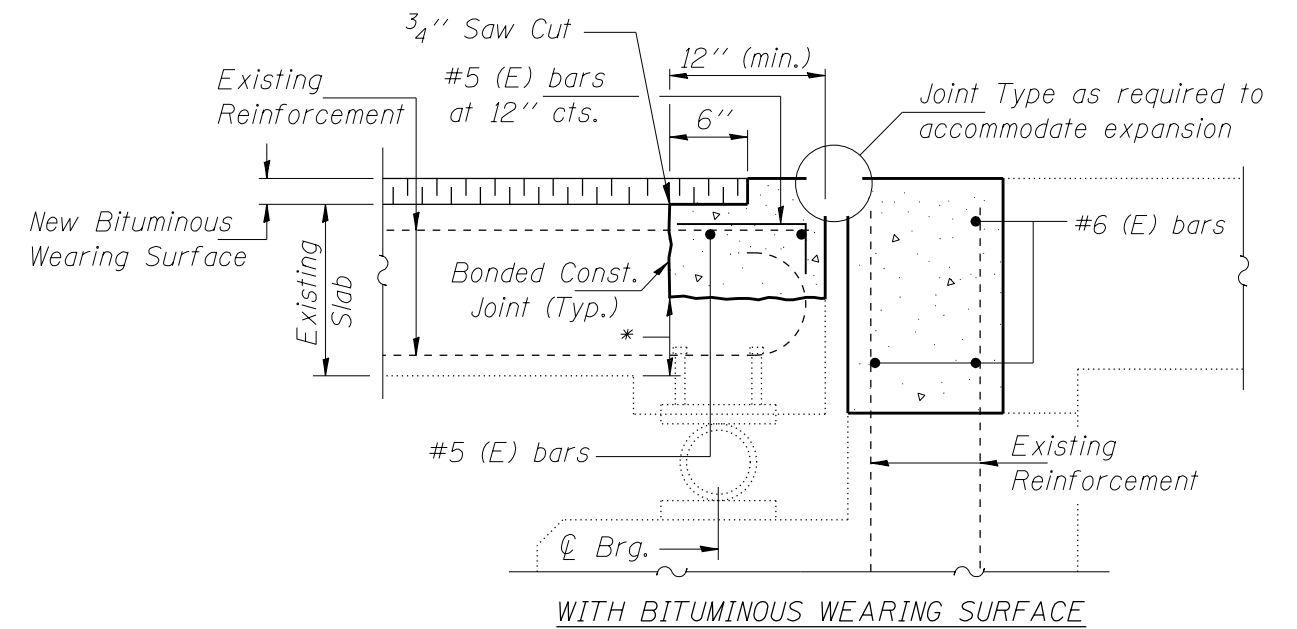
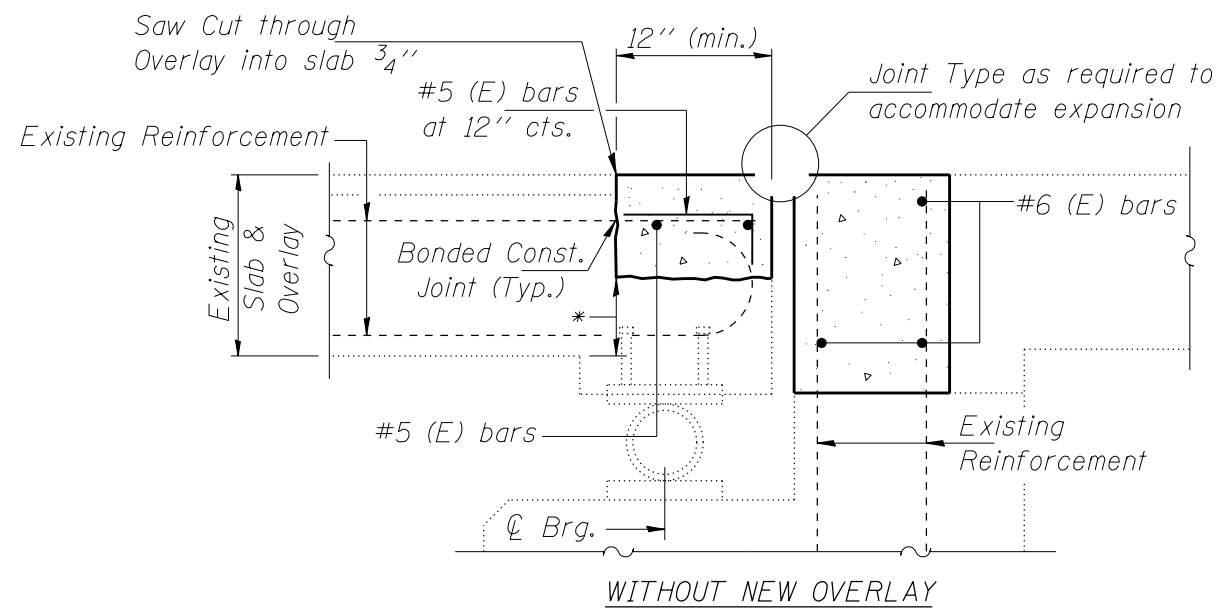
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				









\* The complete replacement of the end of the slab and Temporary Shoring and Cribbing are required when the existing concrete is found to be unsound or analysis shows that remaining depth of slab is not adequate to carry loads during the joint replacement. See Figure 1.5.6-1.

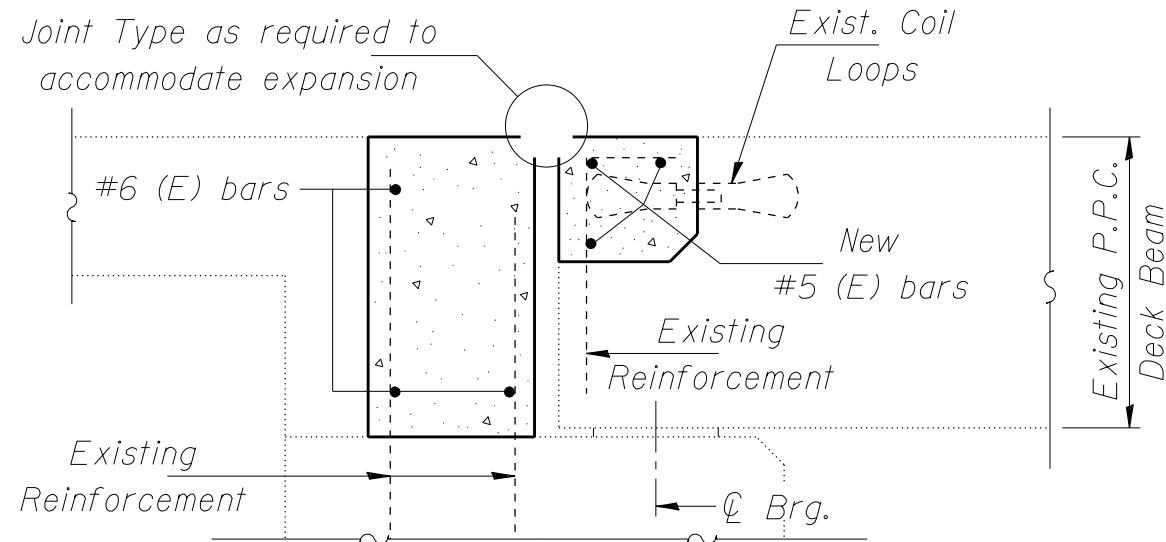
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		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

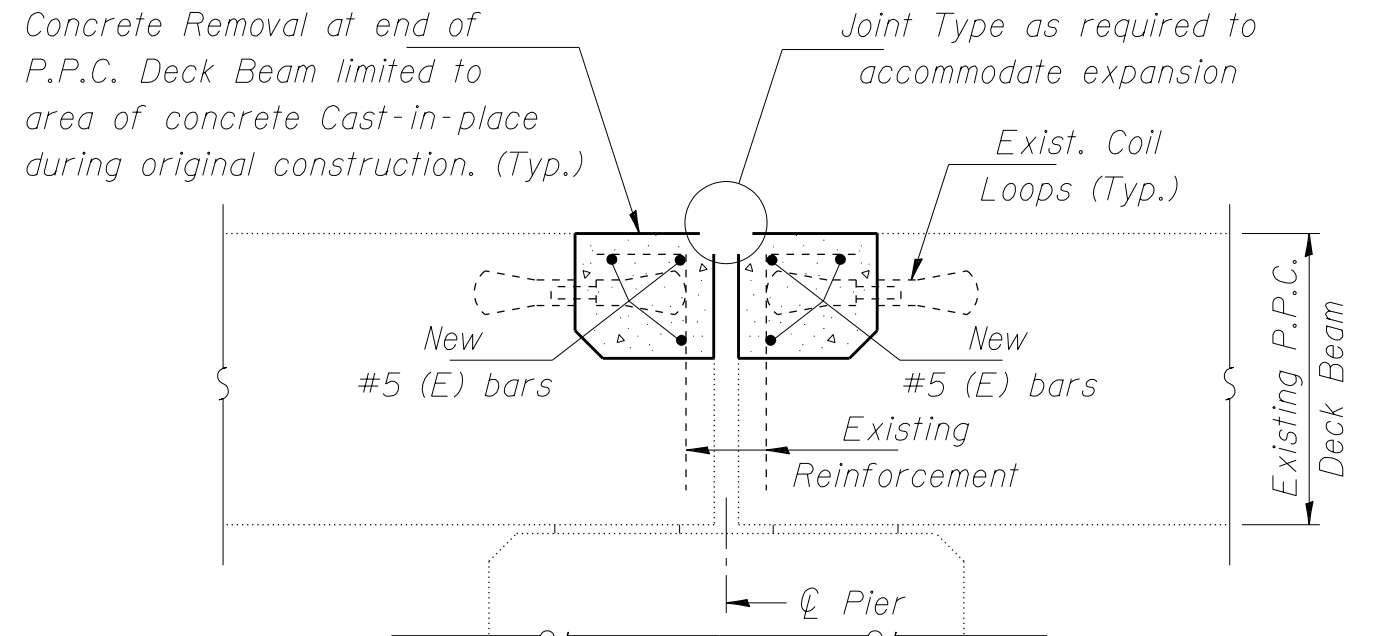
JOINT RECONSTRUCTION  
FOR R.C. SLAB (PARTIAL REMOVAL)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



AT ABUTMENTS

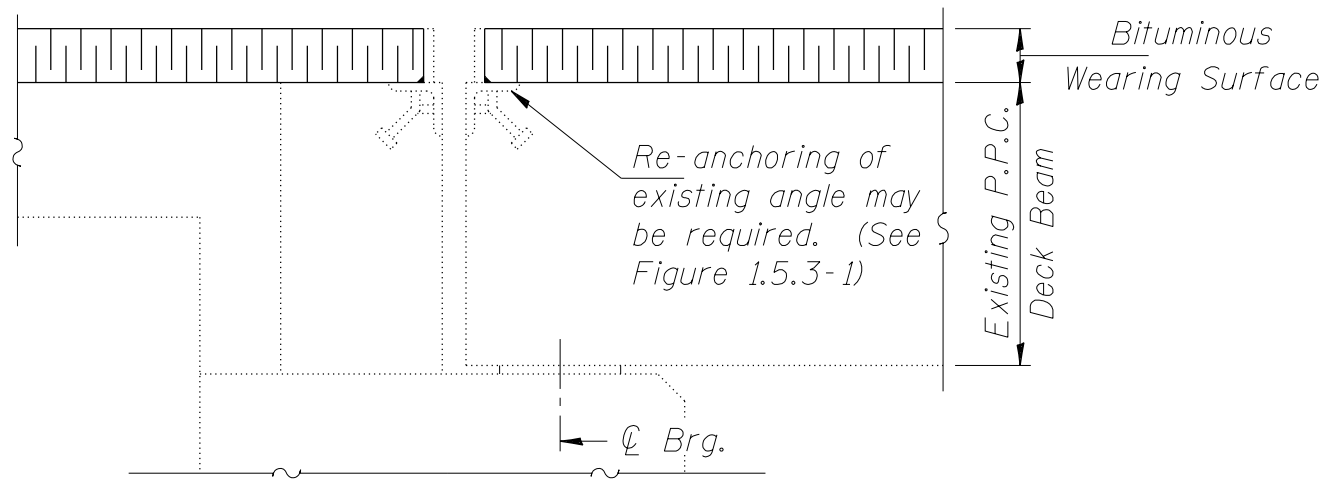


AT PIERS

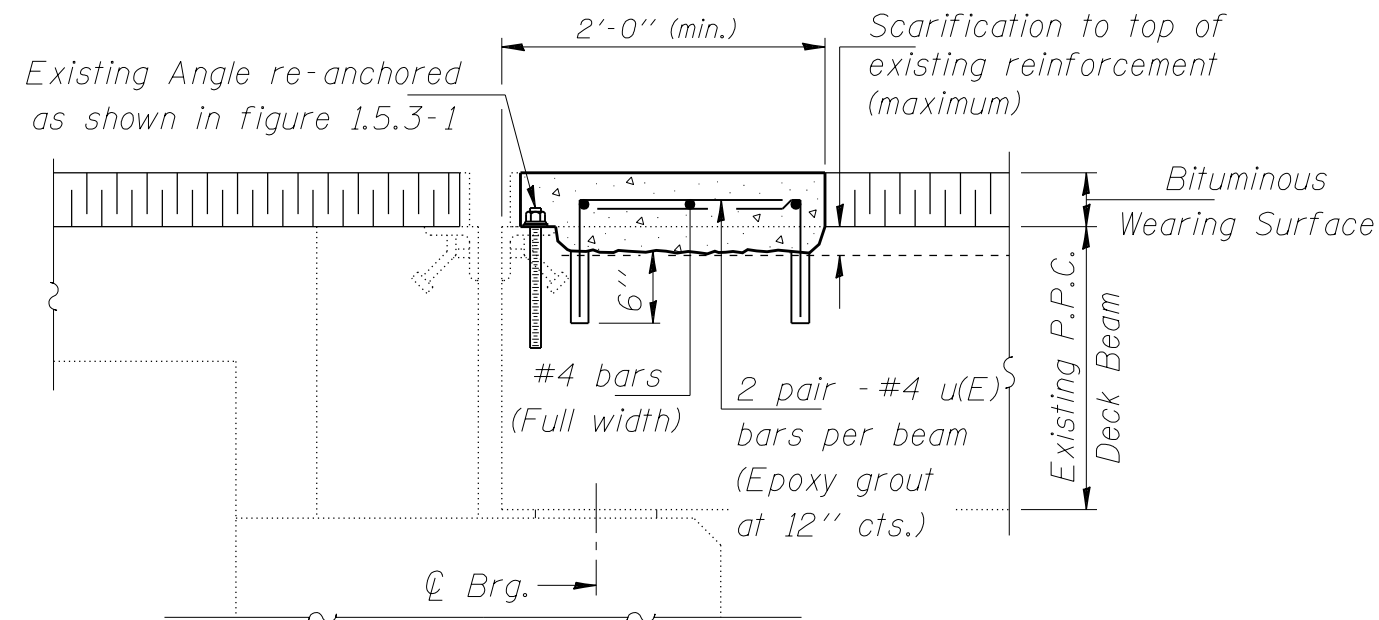
REMOVAL & REPLACEMENT

Note: Existing Reinforcement Bars and Coil Loops shown are to be cleaned and incorporated into new construction except as noted.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>P.P.C. DECK BEAM JOINT RECONSTRUCTION (BLOCKOUT REMOVAL)</b>				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -										



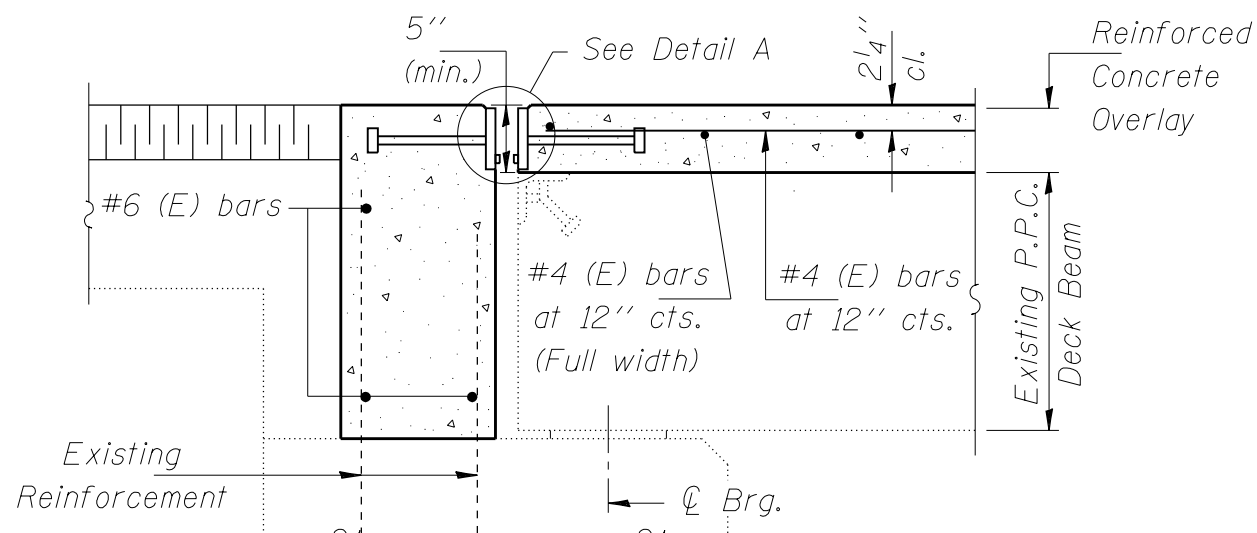
**AT ABUTMENTS**  
 (When re-anchoring is not required)



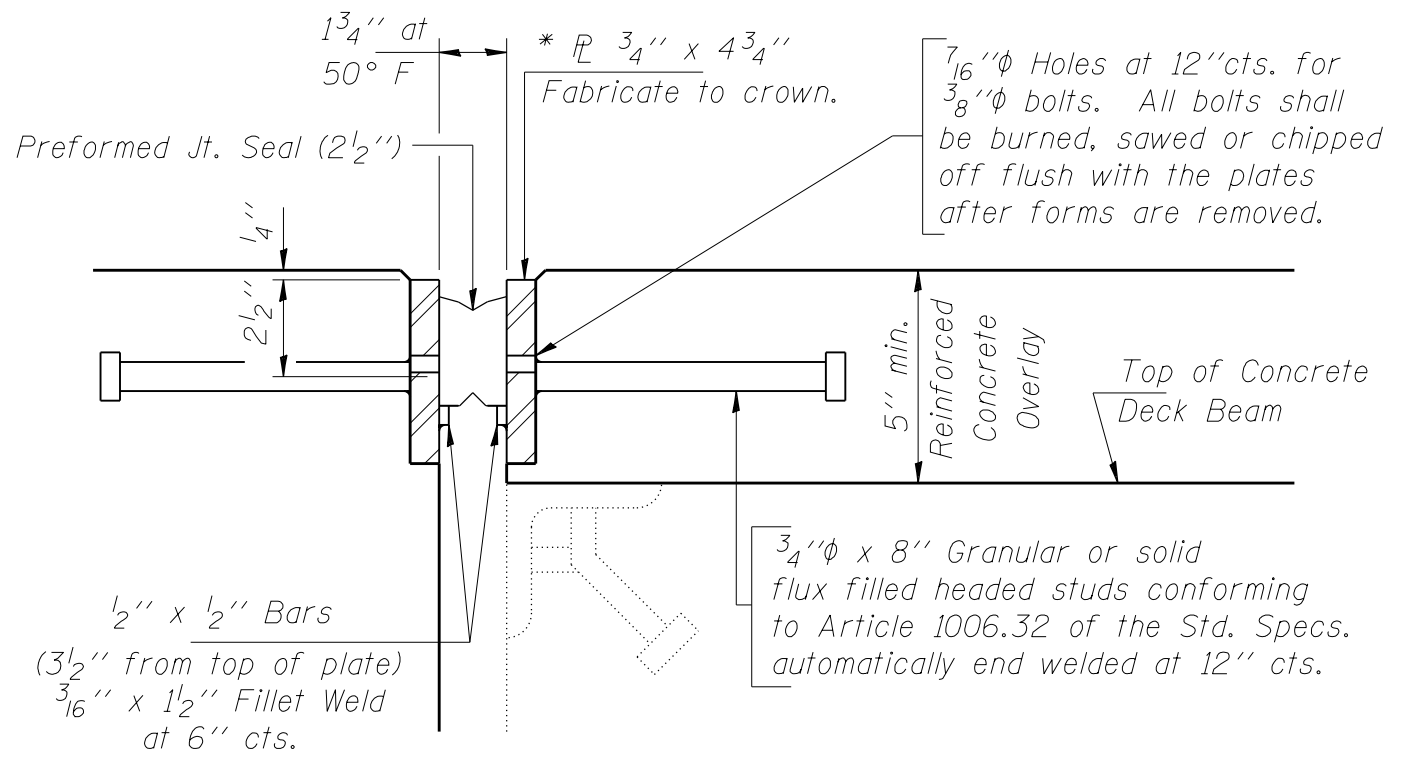
**AT ABUTMENTS**  
 (When re-anchoring is required)

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>P.P.C. DECK BEAM JOINT RECONSTRUCTION</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn	DRAWN	CHECKED -	REVISED -					SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.			CONTRACT NO.	
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 5/10/2016												





**SECTION AT ABUTMENT**  
 Minimum bar lap for #4 bars = 1'-4"

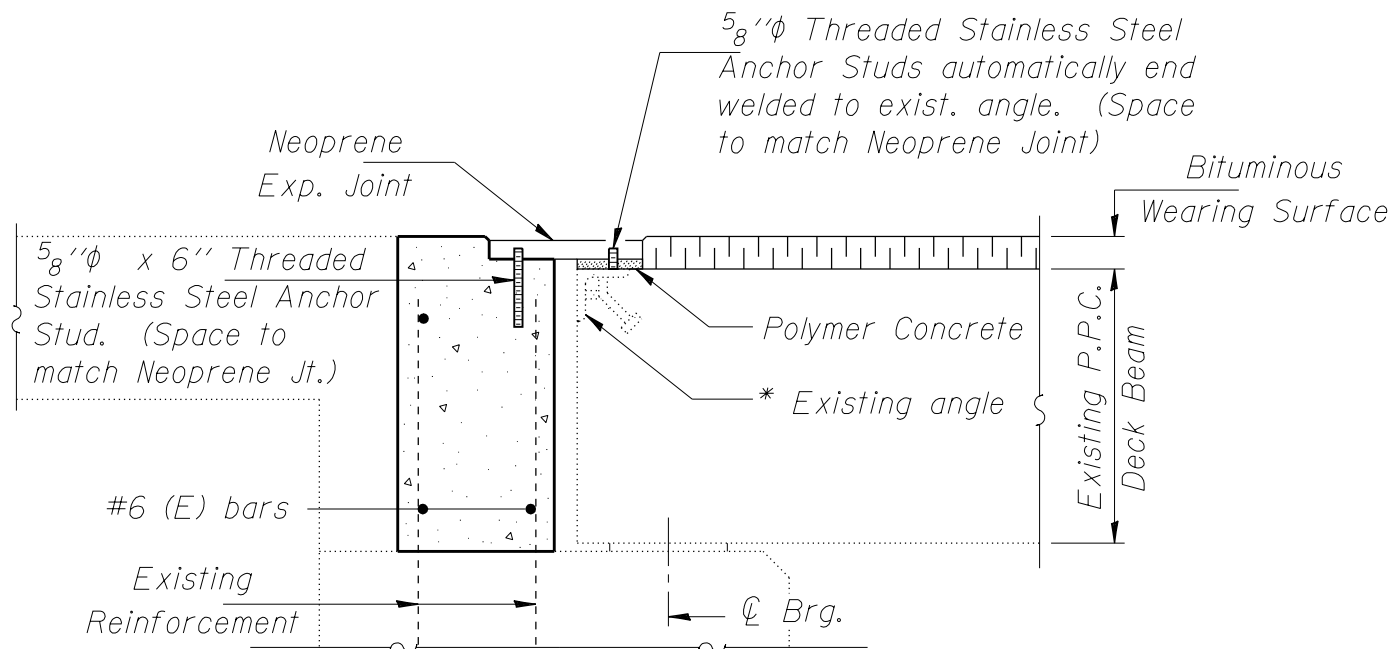


**DETAIL A**

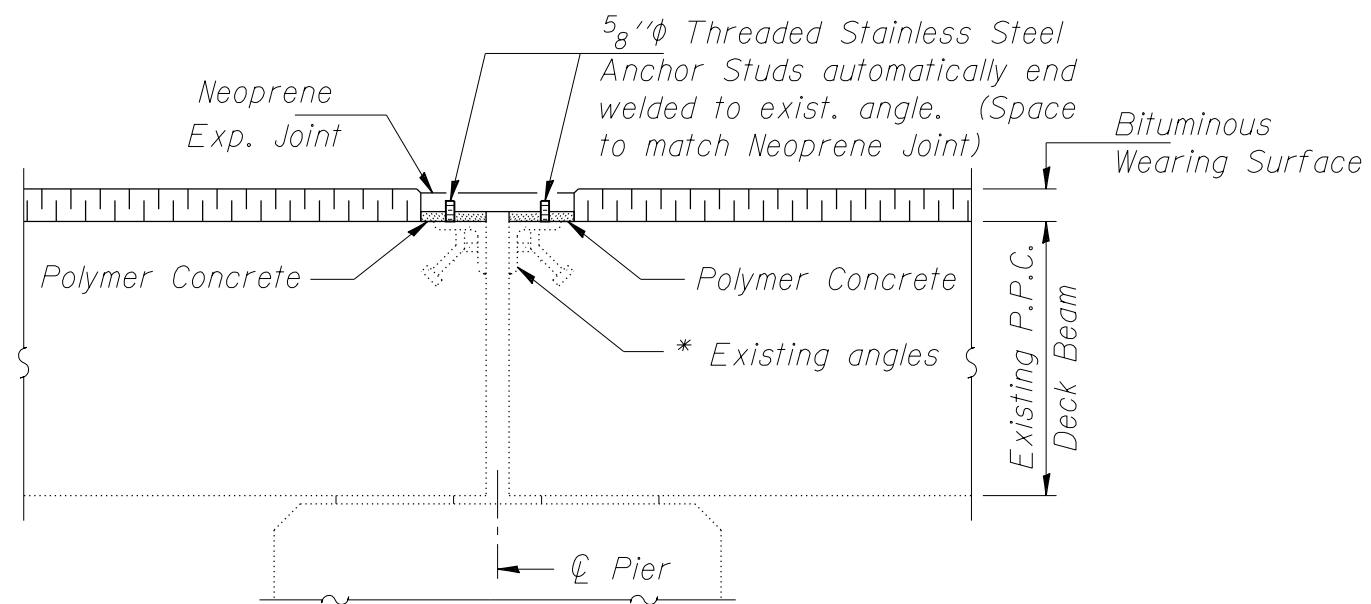
\* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.

Note: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>P.P.C. DECK BEAM JOINT RECONSTRUCTION WITH REINFORCED CONCRETE OVERLAY</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn		CHECKED -	REVISED -			CONTRACT NO.						
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PLOT DATE = 5/10/2016						ILLINOIS FED. AID PROJECT						



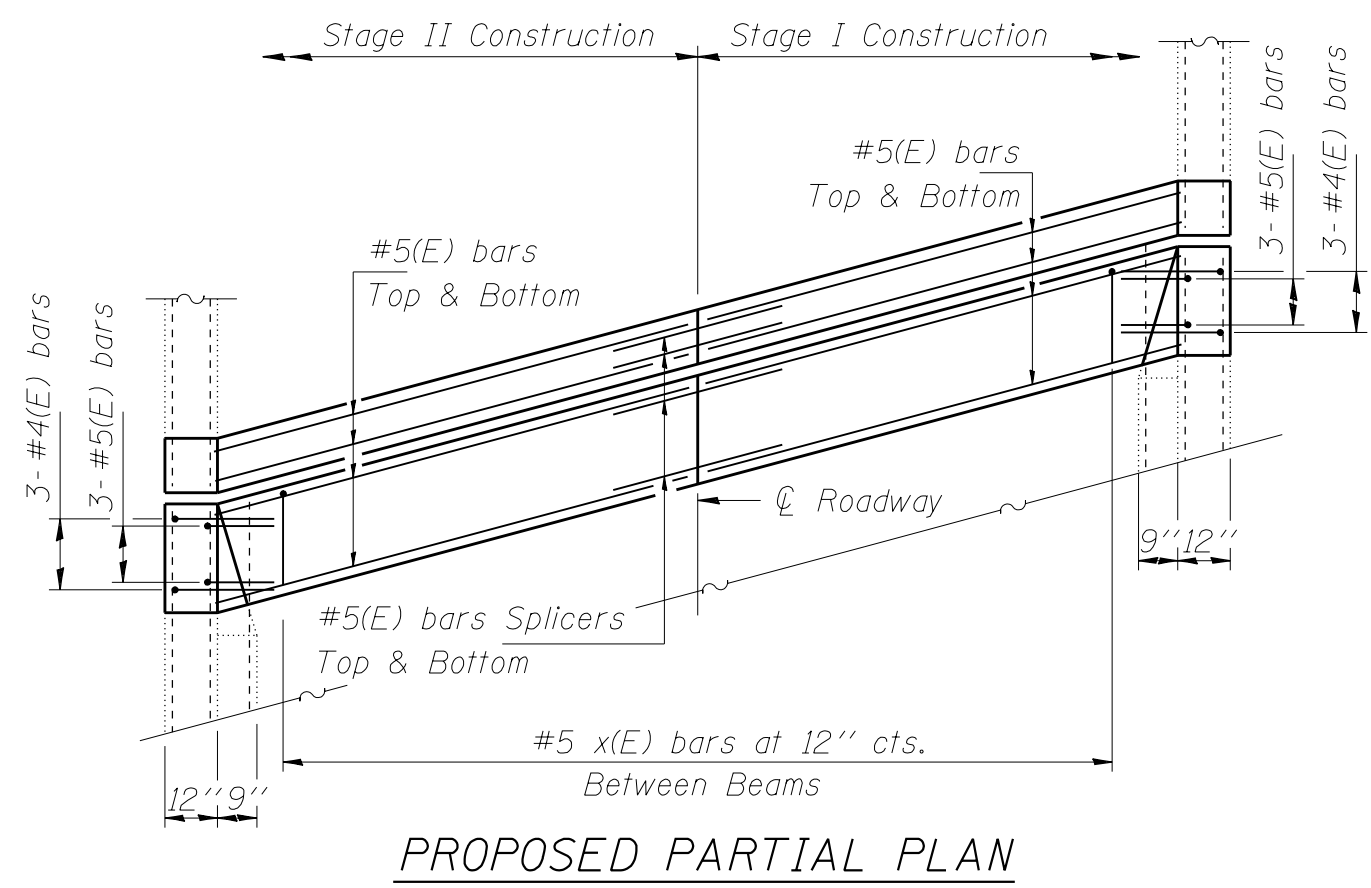
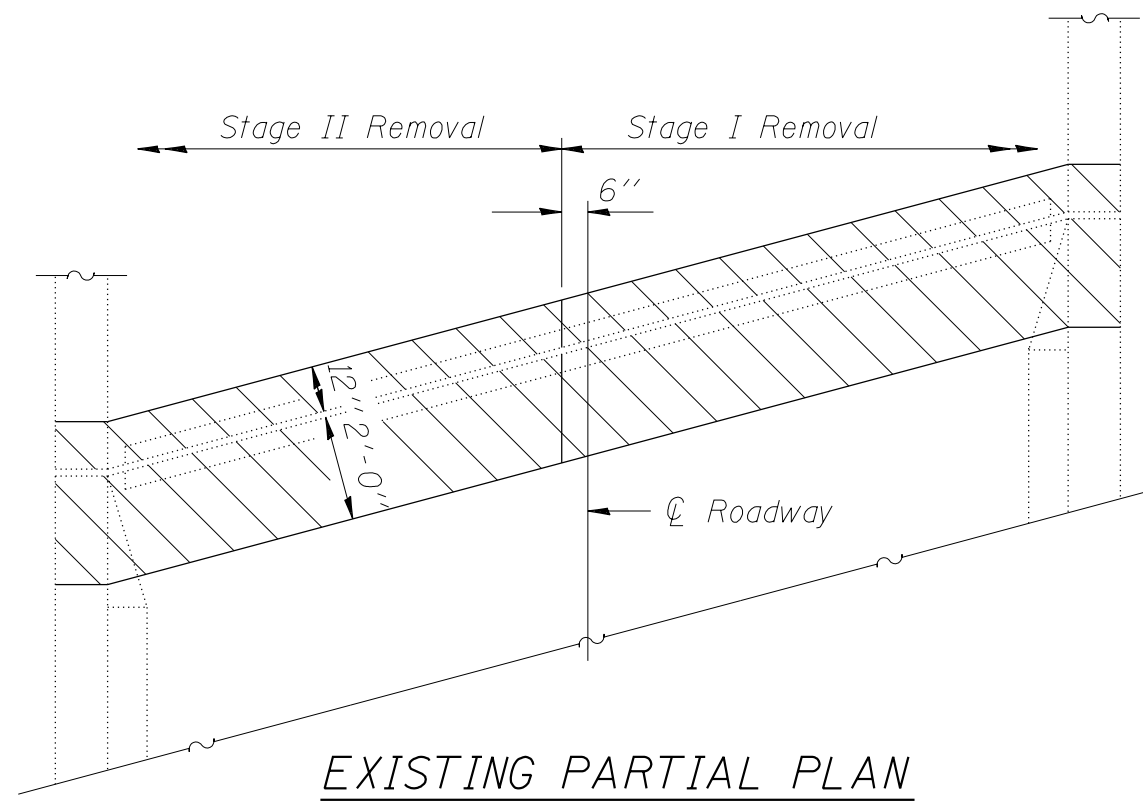
AT ABUTMENTS



AT PIERS

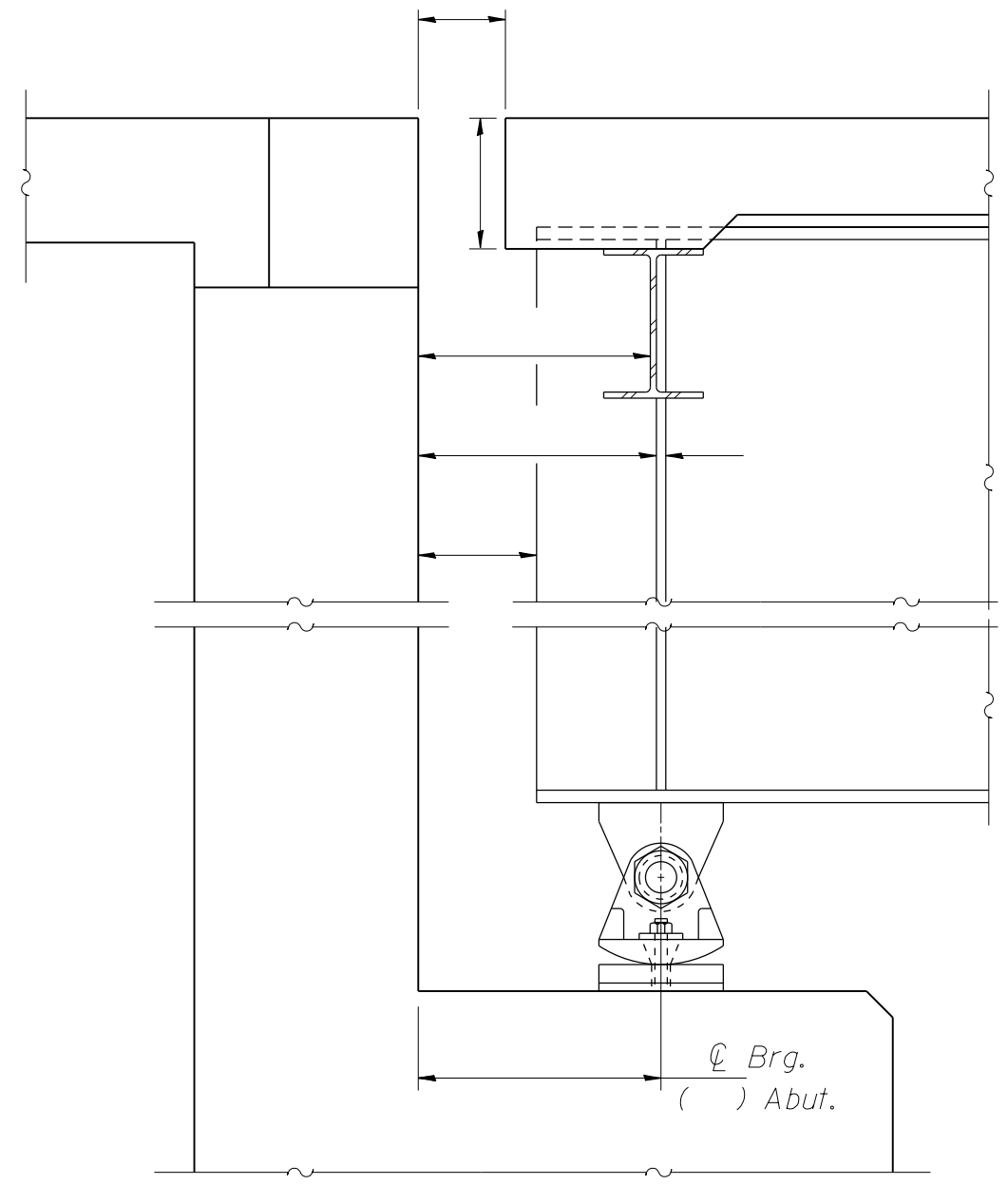
\* Re-anchoring of existing expansion angles may be required. See Figure 1.5.3-1, and space 5/8"  $\phi$  Threaded Stainless Steel Anchor Rods to match the neoprene joint.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>P.P.C. DECK BEAM JOINT RECONSTRUCTION (NEOPRENE)</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										



FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN OF JOINT RECONSTRUCTION</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 5/10/2016												

Structure No. -----  
 Temperature -----  
 Date -----



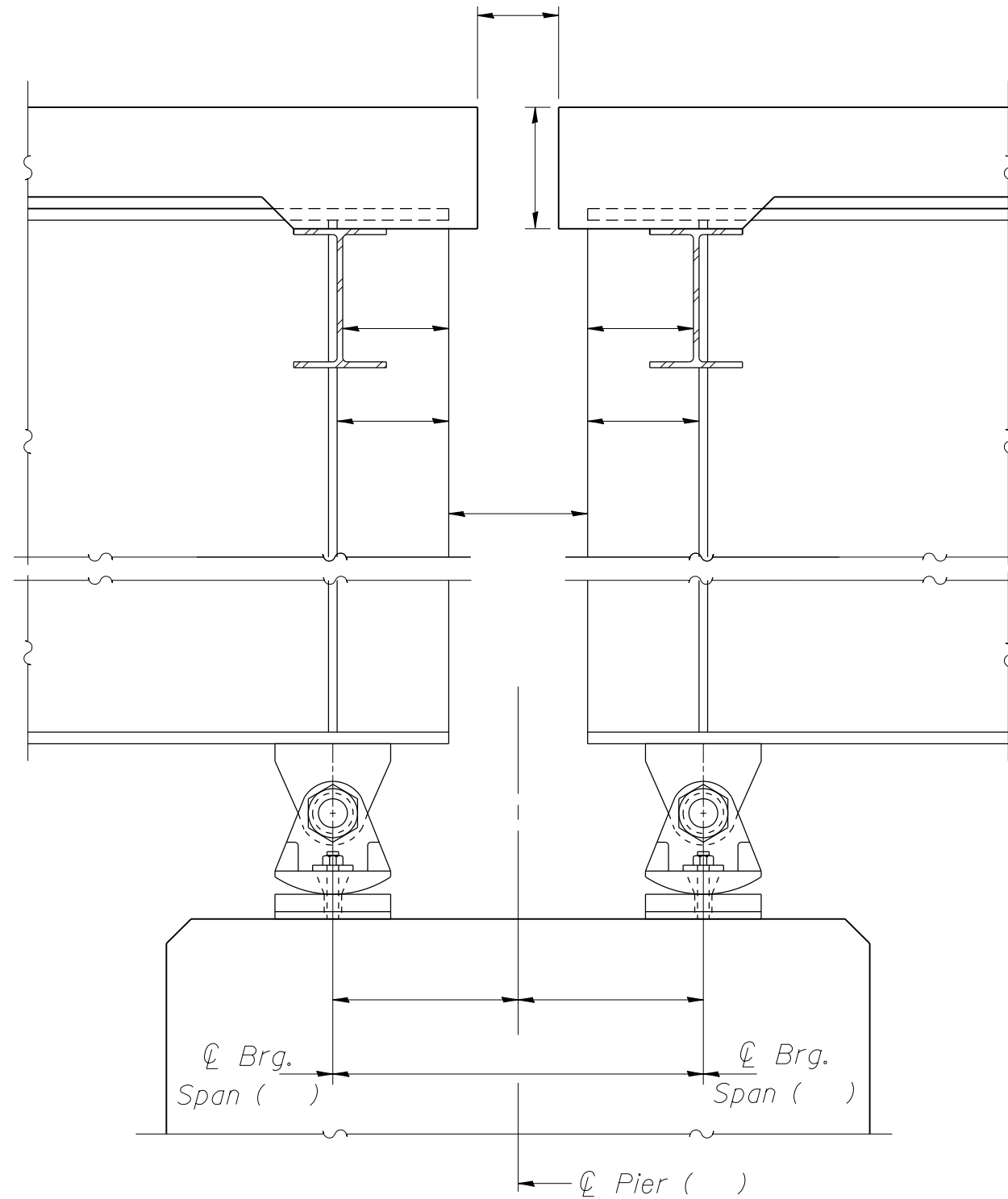
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>FINGER JOINT    FIELD DIMENSIONS (AT ABUTMENT)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

Structure No. -----  
 Temperature -----  
 Date -----



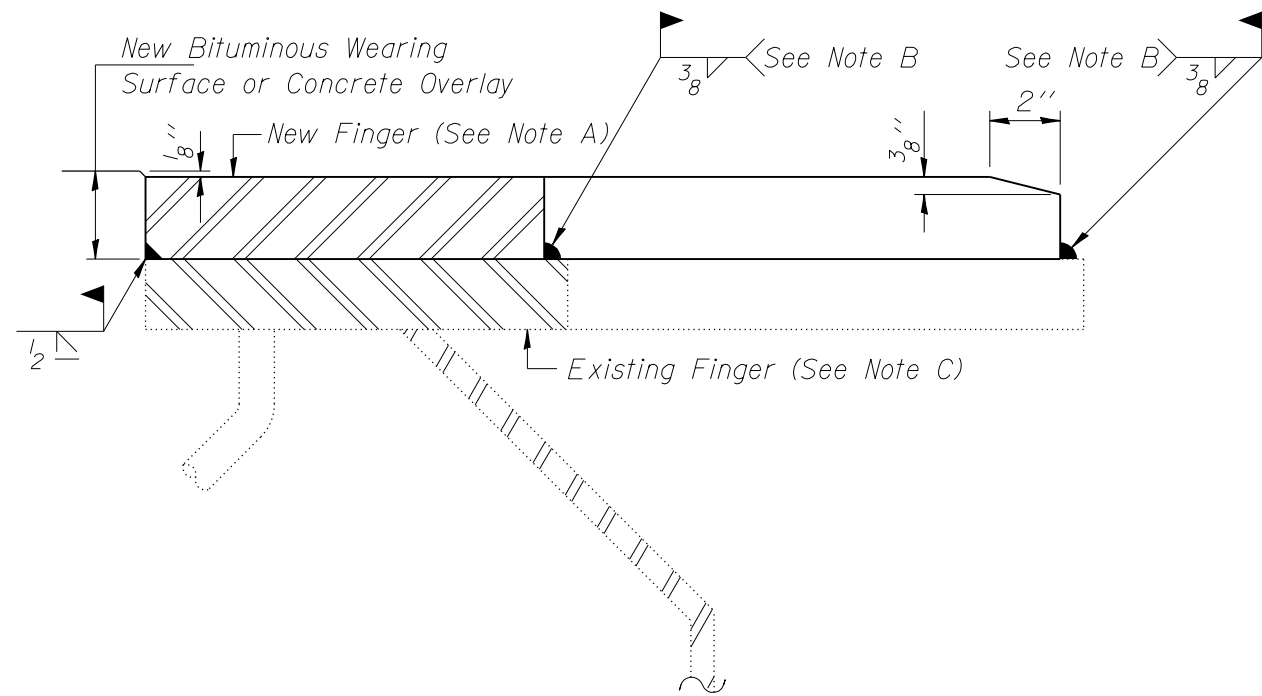
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		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

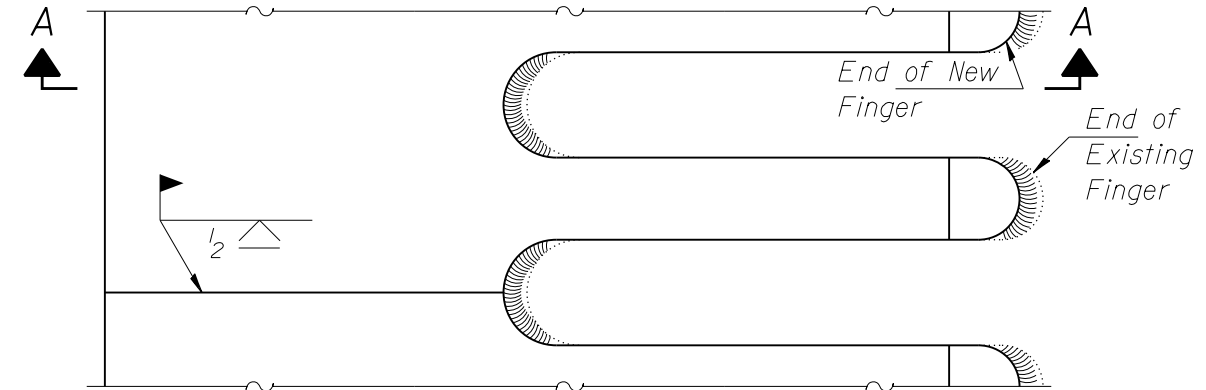
**FINGER JOINT  
 FIELD DIMENSIONS (AT PIER)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**SECTION A-A**



**Note A:**  
 New Finger shall be blast cleaned to SSPC SP 10 and shop painted with the inorganic zinc rich primer.

**Note B:**  
 Fillet weld sizes at ends (tips) and crotches of fingers shall vary from  $\frac{3}{8}$ " near centers to  $\frac{3}{16}$ " minimum near edges as new and existing plates converge.

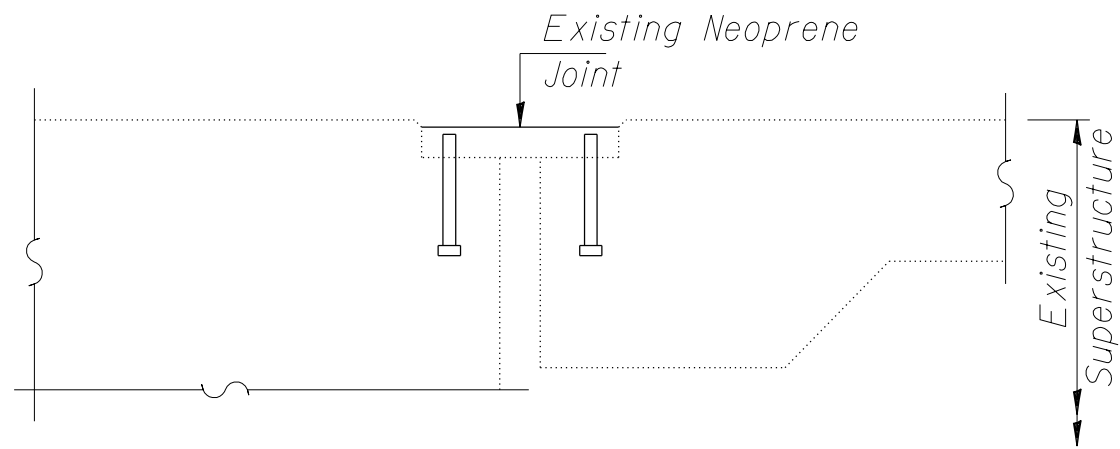
**Note C:**  
 Existing Finger widths and exact locations must be field verified. A template shall be made to insure alignment. Remove foreign material that would prevent uniform contact between new and existing plates by method approved by the Engineer.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

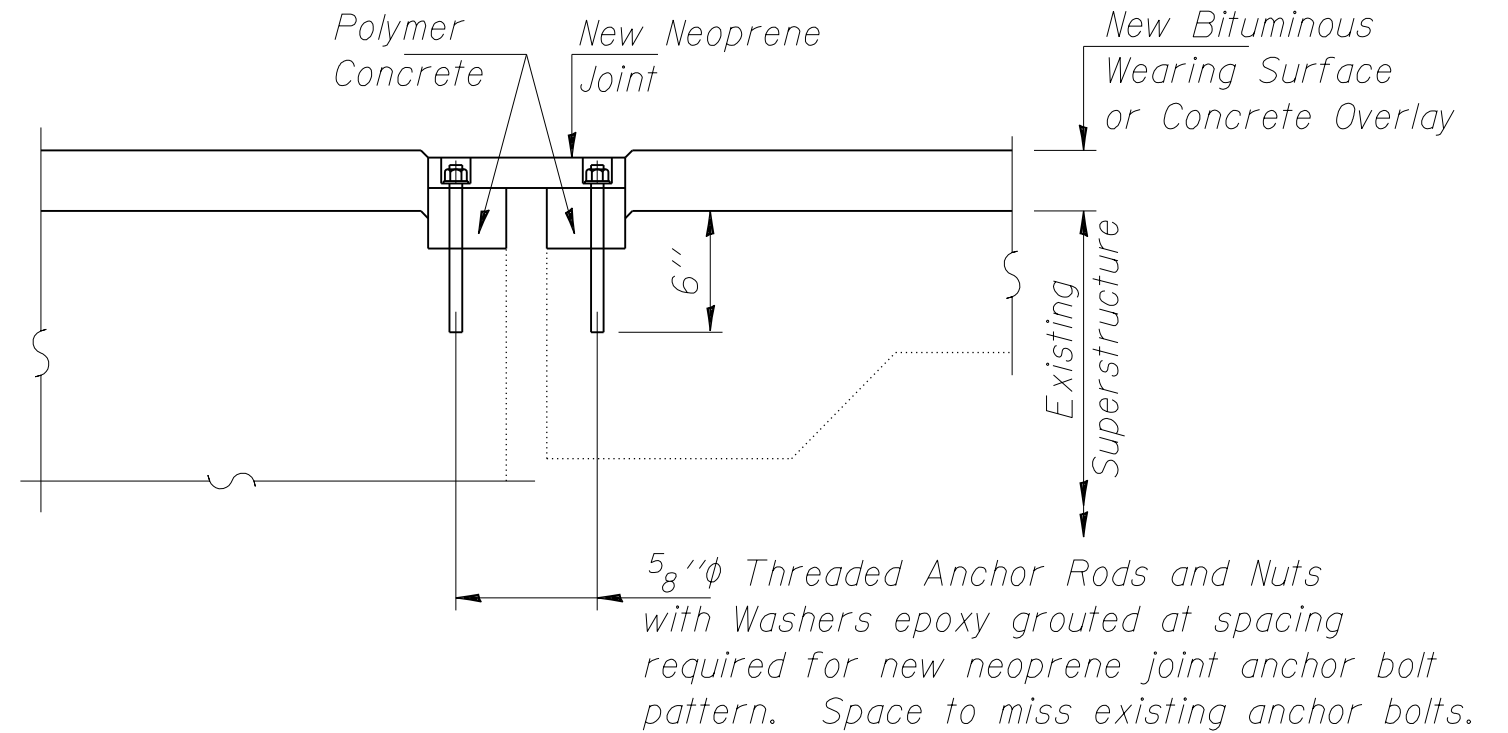
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXPANSION JOINT TREATMENT WITH    GRADE RAISE AND EXISTING FINGER PLATES</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



SECTION AT EXPANSION JOINT  
(Showing existing neoprene joint)



SECTION AT EXPANSION JOINT  
(Showing new neoprene joint)

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\11084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 6\Standards\Standard Details\500-jointdetails.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

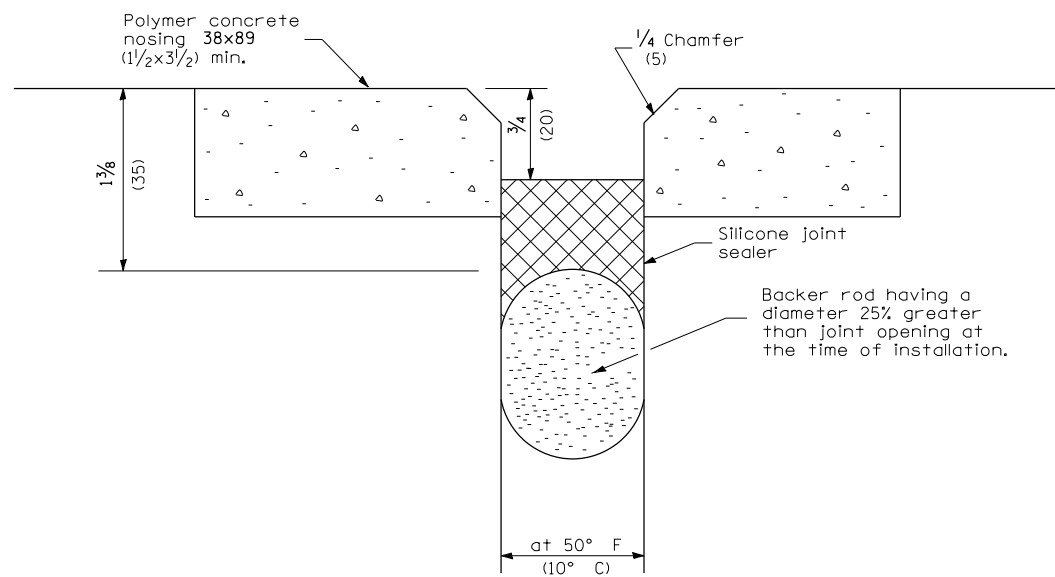
**EXPANSION JOINT TREATMENT WITH  
GRADE RAISE AND EXISTING NEOPRENE**

SCALE: SHEET OF SHEETS STA. TO STA.

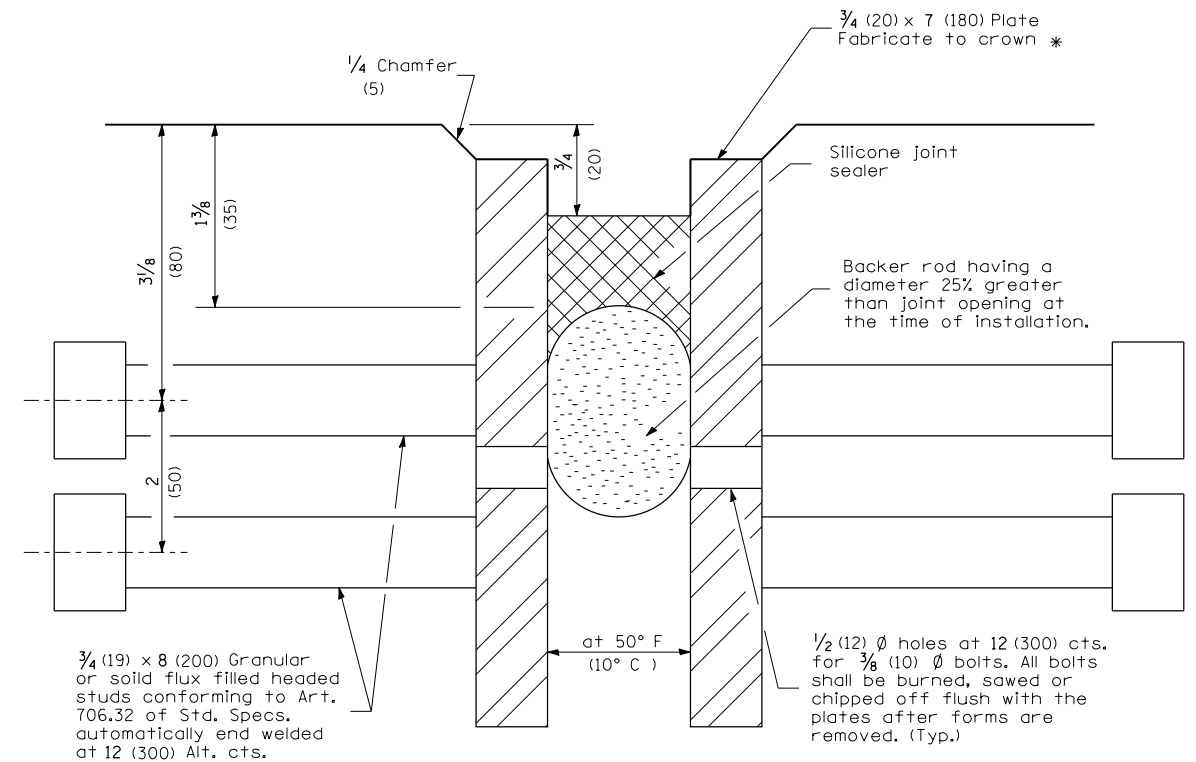
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				







SILICONE JOINT SEAL  
(CONCRETE DETAILS)



\* Furnish in segments of 20 ft. (6 m) maximum length. Maximum space between installed segments shall be 1/4 (5). Seal space with Silicone Sealant suitable for Structural Steel.

SILICONE JOINT SEAL  
(STEEL DETAILS)

All dimensions are in inches (millimeters) unless otherwise shown.

All dimensions are in inches (millimeters) unless otherwise shown.

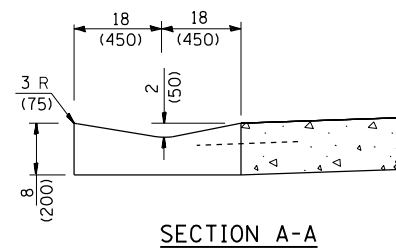
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Default	PLOT SCALE = 40.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

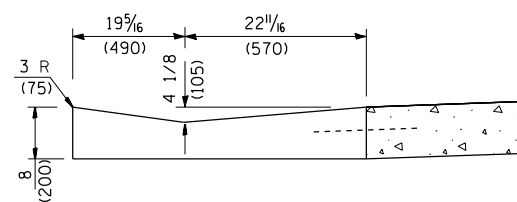
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



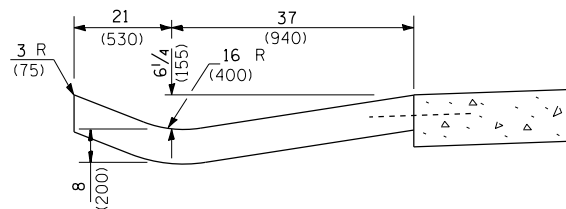


SECTION A-A

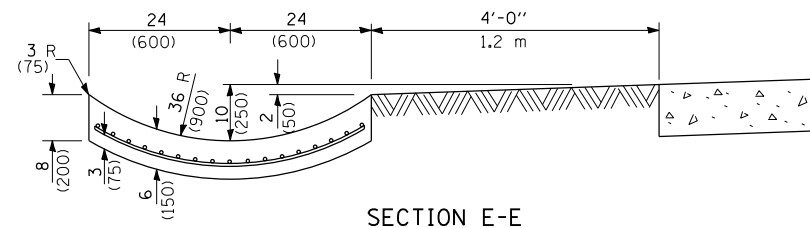


SECTION B-B

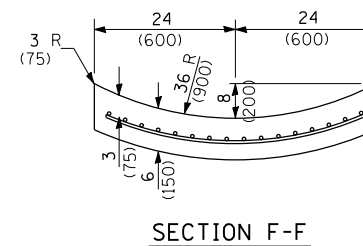
QUANTITY  
 Section A-A to E-E and curtain wall  
 4.71 cu. yd. (3.60 m<sup>3</sup>) concrete.  
 Section F-F = 0.079 cu. yd./ft.  
 (0.2 m<sup>3</sup>/m)



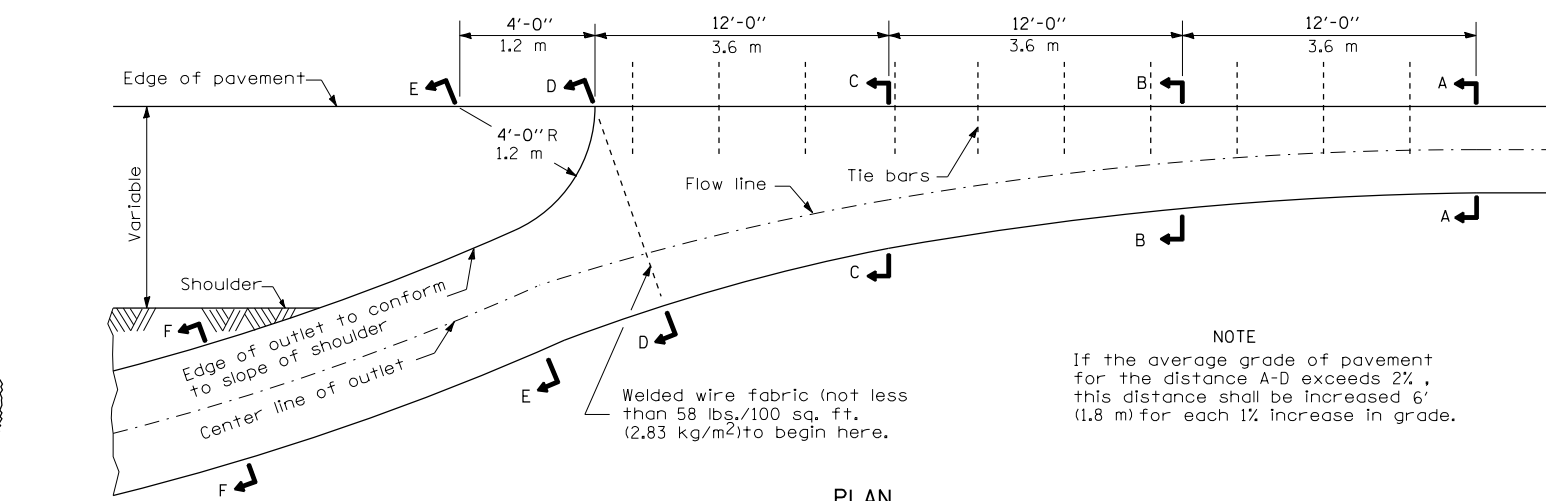
SECTION C-C



SECTION E-E

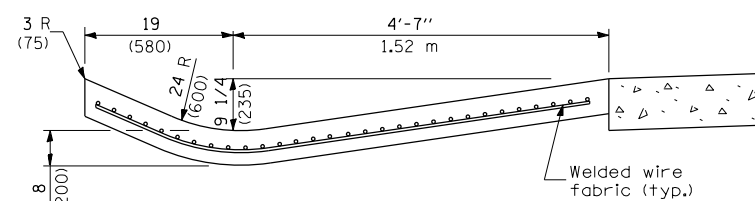


SECTION F-F

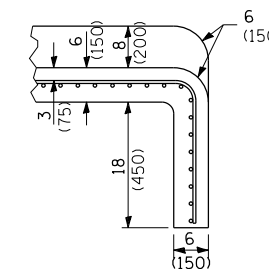
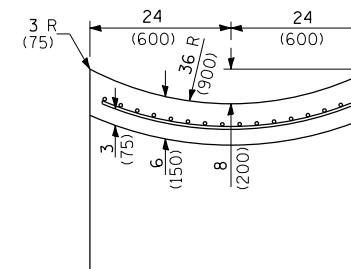


PLAN

NOTE  
 If the average grade of pavement  
 for the distance A-D exceeds 2%,  
 this distance shall be increased 6'  
 (1.8 m) for each 1% increase in grade.



SECTION D-D

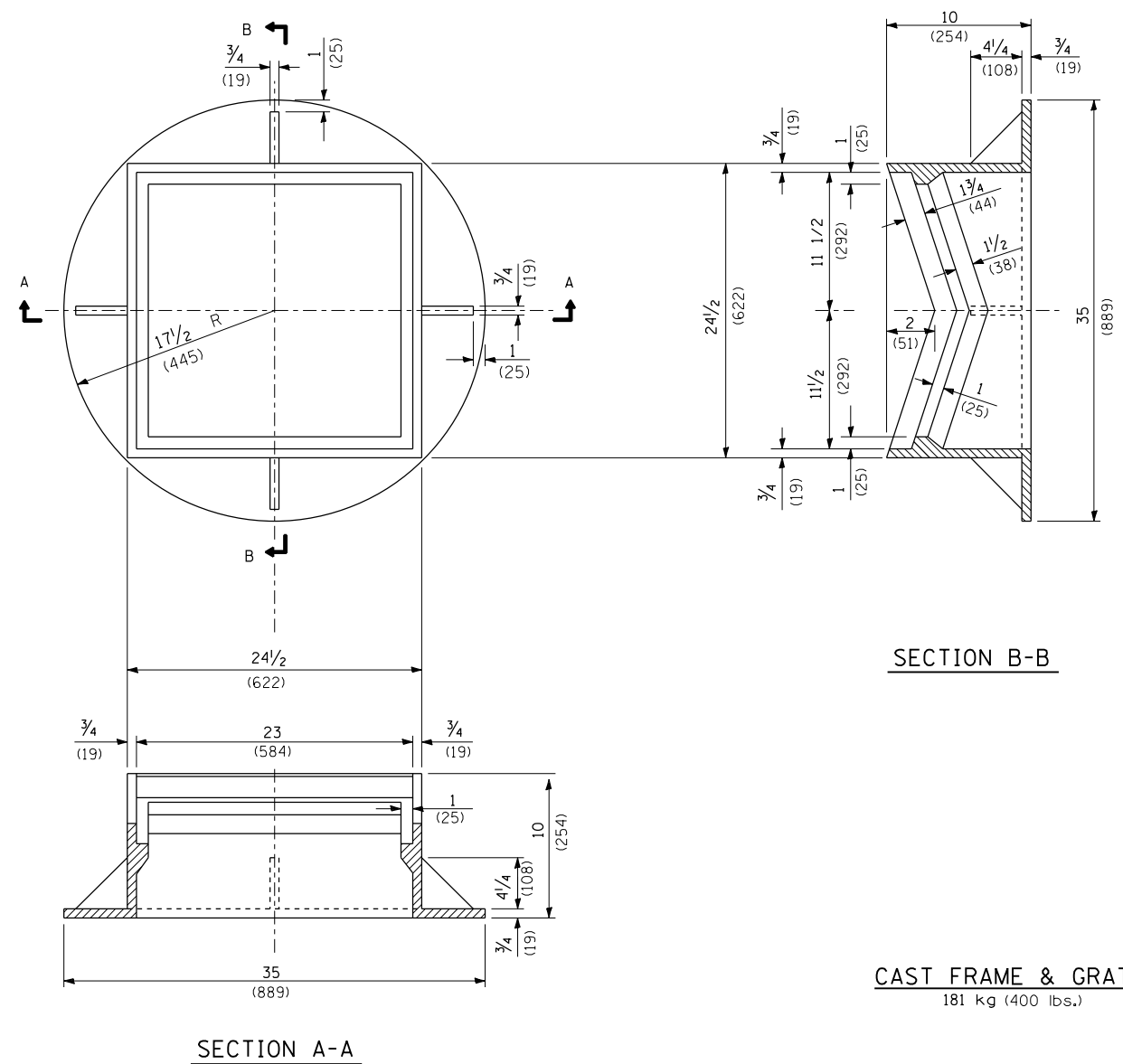


SECTIONS AT END OF OUTLET

OUTLET

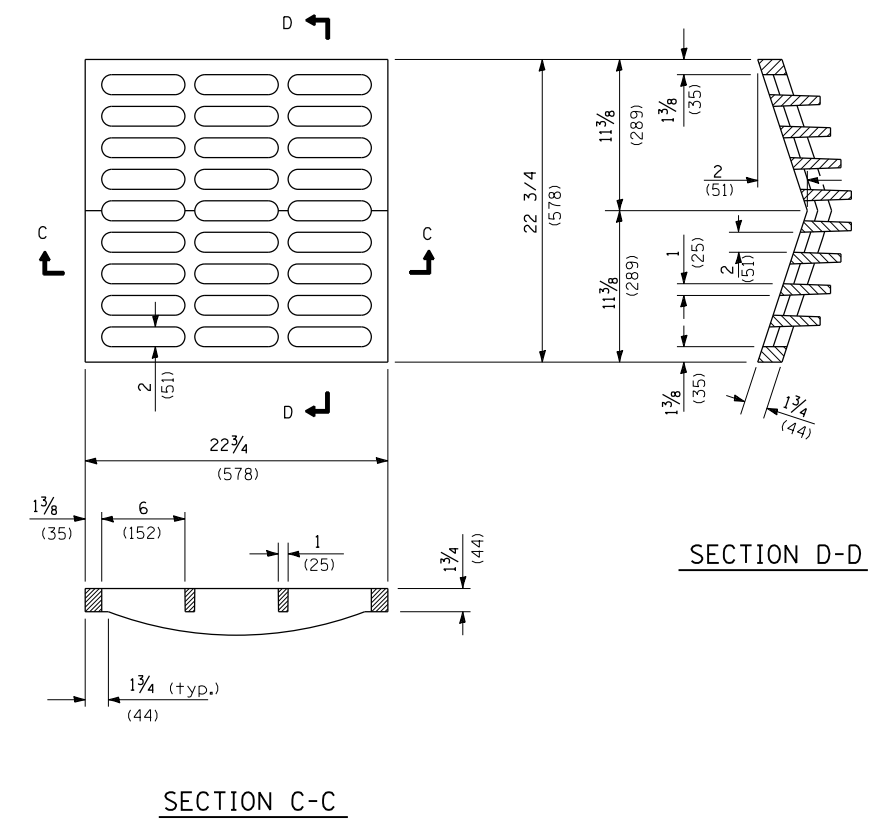
All dimensions are in millimeters (inches)  
 unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GUTTER, TYPE A (MODIFIED) (INLET, OUTLET &amp; ENTRANCE)</b>	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
1913MOD.DGN	PLOT SCALE = 48.000' / in.	CHECKED -	REVISED -			CONTRACT NO.					
	PLOT DATE = 5/10/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET	OF	SHEETS	STA.	TO



**CAST FRAME & GRATE**  
181 kg (400 lbs.)

DESIGNER NOTE:  
TO BE USED WITH CONC. GUTTER TYPE A MODIFIED  
CADD FILE M1913MOD.DGN

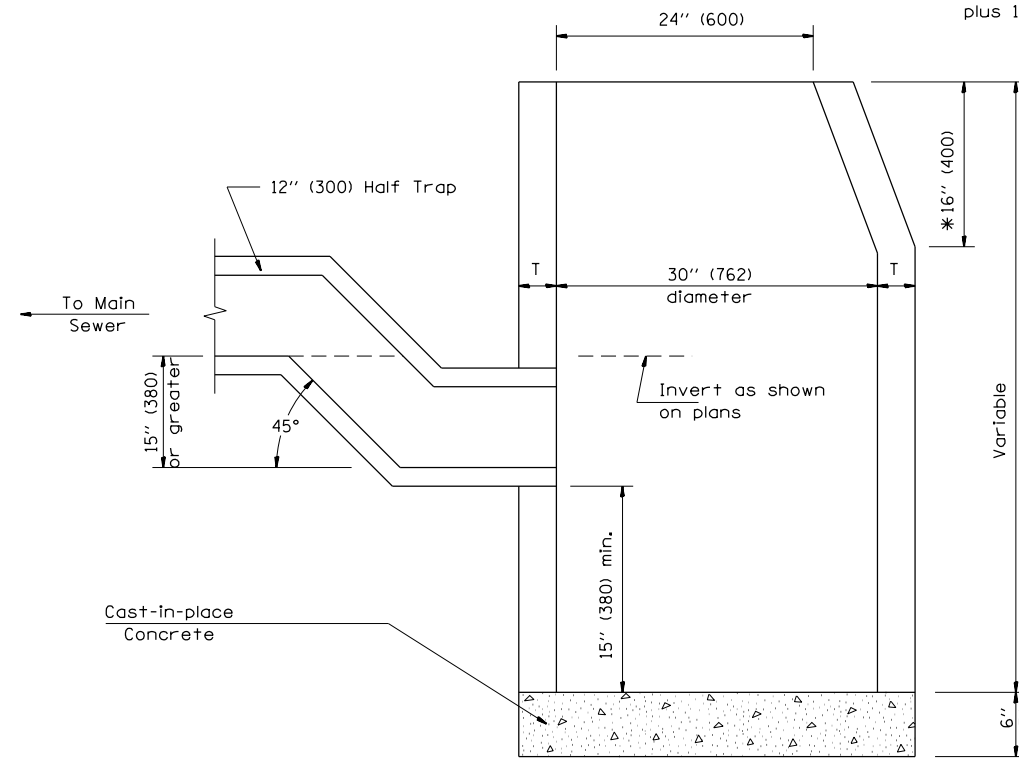


NOTE: THE SPECIAL FRAME AND GRATE  
TO BE USED SHALL BE NEENAH R-3508B  
OR EQUIVALENT.

All dimensions are in inches (millimeters)  
unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED - VKV	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default CAD2218.DGN	Documents\DOT Offices\District 6\Standards\Standard Details\600-CAD2218.dgn	CHECKED - VKV	REVISED -									CONTRACT NO.				
	PLOT SCALE = 40.000' / in.	DATE - 6/12/96	REVISED -									ILLINOIS FED. AID PROJECT				
	PLOT DATE = 5/10/2016		REVISED -													

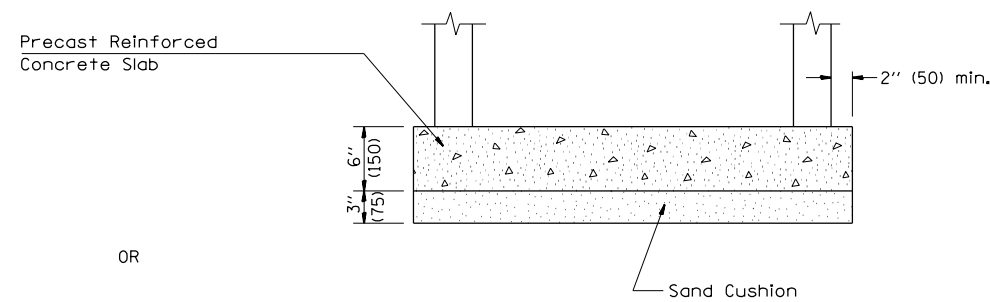
\* The dimension for precast reinforced concrete section may vary from the dimension given to plus 150 mm (6").



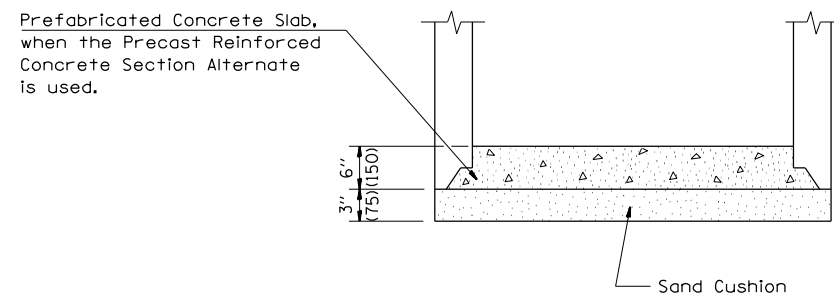
ALTERNATE MATERIALS FOR WALLS	T (in) (min.)	T (mm) (min.)
Concrete Masonry Unit	5"	125
Brick Masonry	8"	200
Precast Reinforced Concrete Section	3 3/8"	89
Cast-in-place Concrete	6"	150

In addition to the requirements of Article 602.15 of the Standard Specifications, the contract unit price for Catch Basin, Special, shall include the sand cushion when required and furnishing and compacting the specified backfill material.

OR



OR



**CATCH BASIN SPECIAL**

DO NOT SCALE

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 40.000' / in.	DATE - 5/3/96	REVISED								ILLINOIS FED. AID PROJECT					
CBASIN.DGN	PLOT DATE = 5/10/2016	DATE - 5/3/96	REVISED													

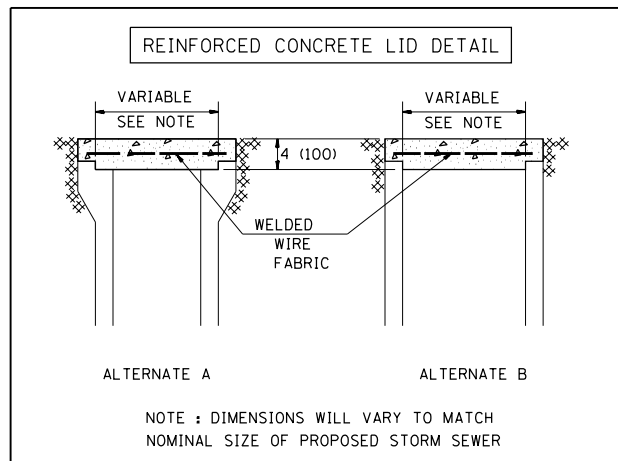
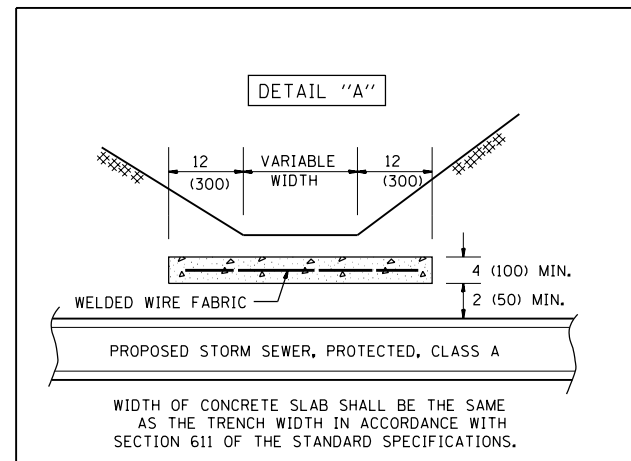
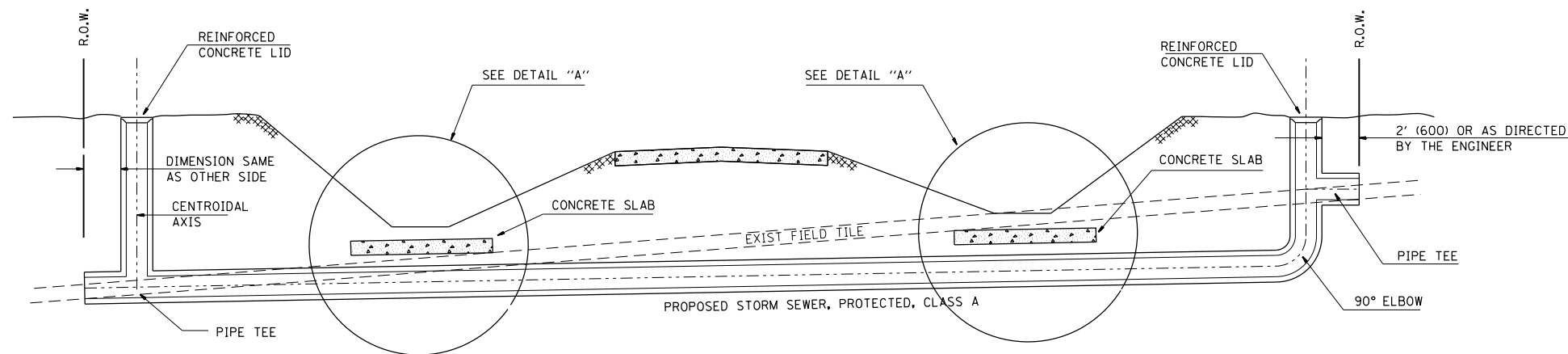






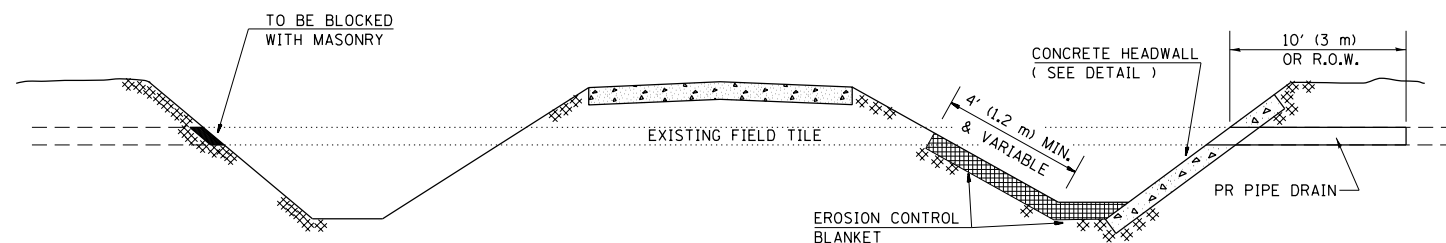






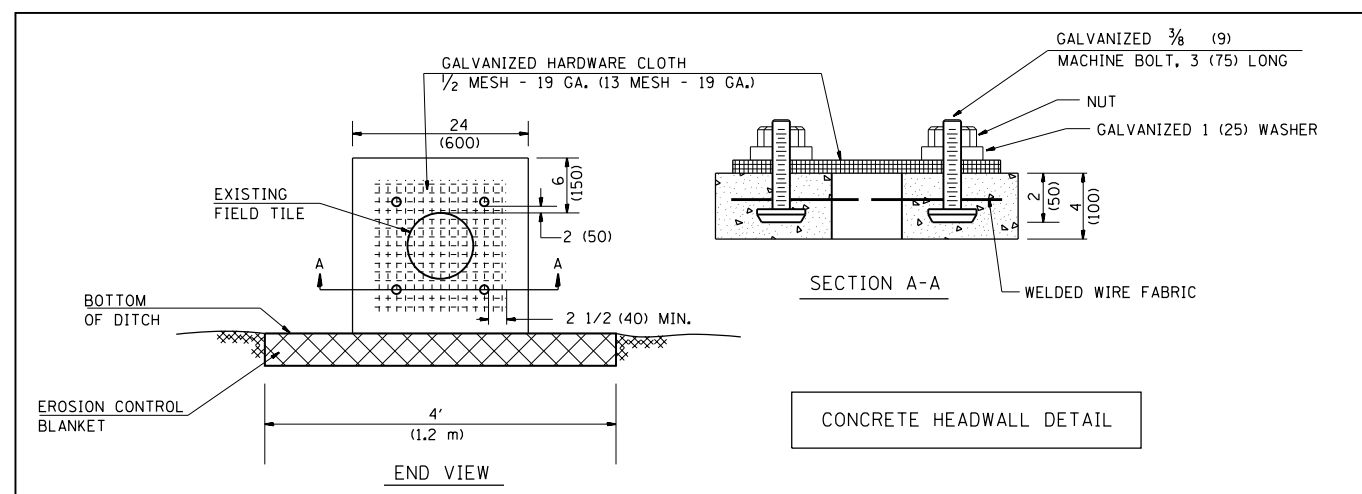
GENERAL NOTES

1. FIELD TILE SHALL BE REPLACED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THE COST PER CONTRACT UNIT PRICE OF ITEMS INCLUDED IN THIS CONTRACT SHALL BE PAID FOR AS STATED IN SECTION 611 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACT UNIT PRICE IS NOT INCLUDED IN THIS CONTRACT, PAYMENT FOR THIS WORK WILL BE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2. THE DIAMETER OF THE PROPOSED STORM SEWER SHALL BE EQUAL TO OR GREATER THAN THE EXISTING FIELD TILE.
3. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR BY THE DEPTH OF COVER. THE LINEAL METER MEASUREMENT WILL BE ALONG THE CENTROIDAL AXIS AND INCLUDE ALL BENDS, ELBOWS, OR PIPE TEE'S WHICH ARE REQUIRED.
4. THE REINFORCED CONCRETE LID SHALL BE CLASS SI CONCRETE (MISCELLANEOUS) OR PRECAST REINFORCED CONCRETE.
5. ALL HARDWARE, WELDED WIRE FABRIC, RODENT SCREENS AND OTHER REINFORCEMENT AND ANCHORS AS SHOWN OR AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST FOR MISCELLANEOUS CONCRETE.



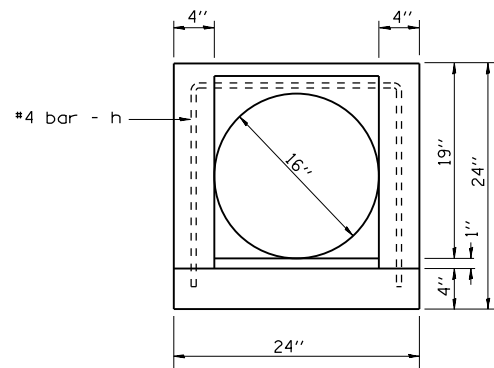
DESIGNER NOTE:

THE DESIGNER SHOULD INCLUDE IN THE PLANS THE APPROPRIATE QUANTITIES ITEMS AS STATED IN STANDARD SPECIFICATIONS. FOR FIELD TILE QUANTITIES REFER TO THE FARMER DRAINAGE MEETING NOTES AND OTHER PROJECT CORRESPONDENCE. ASSUMED QUANTITY ITEMS SHOULD NOT BE INCLUDED IN THE PLANS IF EVIDENCE OF FIELD TILE IS NOT CLEAR.

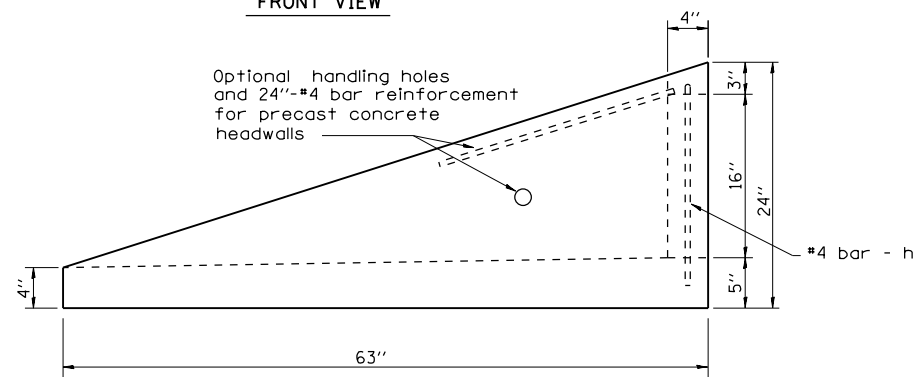


ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

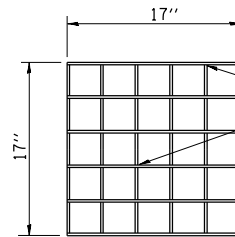
FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FIELD TILE REPLACEMENT</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default FTILE.DGN	pw\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard\Drawings\600-CADD.dgn	CHECKED - RRJ	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO.	
	PLOT SCALE = 40.000' / in.	DATE - FEBRUARY 15, 2000	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = 5/10/2016		REVISED -										



FRONT VIEW

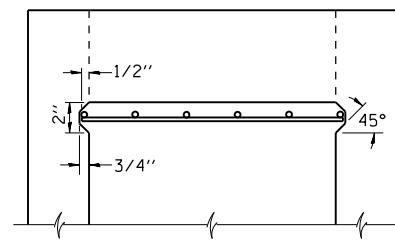


SIDE VIEW



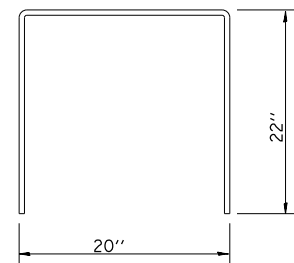
FRONT VIEW

To install, slip into 3/4 inch deep slots cast into the headwall.



TOP VIEW  
SLOTTED HEADWALL  
DETAIL

RODENT SHIELD DETAIL



BAR - h

GENERAL NOTES

The concrete headwall can be either precast or cast-in-place Class X Concrete, with the exception of aggregate gradation.

An alternate paved invert meeting the approval of the Engineer may be substituted for that shown.

Precast concrete shall be in accordance with Sections 505.01 thru 505.05 of the Standard Specifications except that the concrete strength shall be 4000 p.s.i. after 28 days.

If a precast concrete headwall is used, the pipe shall be grouted and sealed to the headwall opening with a cement mortar. Total volume of concrete per headwall = 0.26 Cubic Yards.

The uppermost point of the headwall shall be placed flush with the roadway slope. The earthen side slopes adjacent to the headwall shall then be shaped to conform to the sides and toe of the headwall.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the Engineer.

The contract unit price each for CONCRETE HEADWALL shall include all materials, including rodent shield, and labor necessary to install the headwall.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -
pw\11\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 6\Standards\Standard Details\CAD\		DRAWN -	REVISED -
Default	PLOT SCALE = 48.000' / in.	CHECKED -	REVISED -
HWL.DGN	PLOT DATE = 5/10/2016	DATE - JUNE 20, 1996	REVISED -

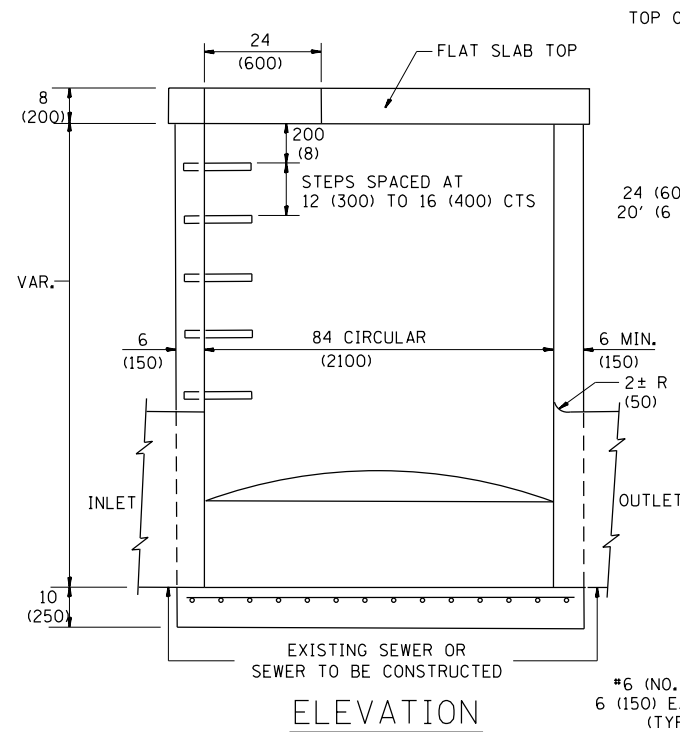
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE HEADWALL FOR STORM SEWER INLET

SCALE: SHEET OF SHEETS STA. TO STA.

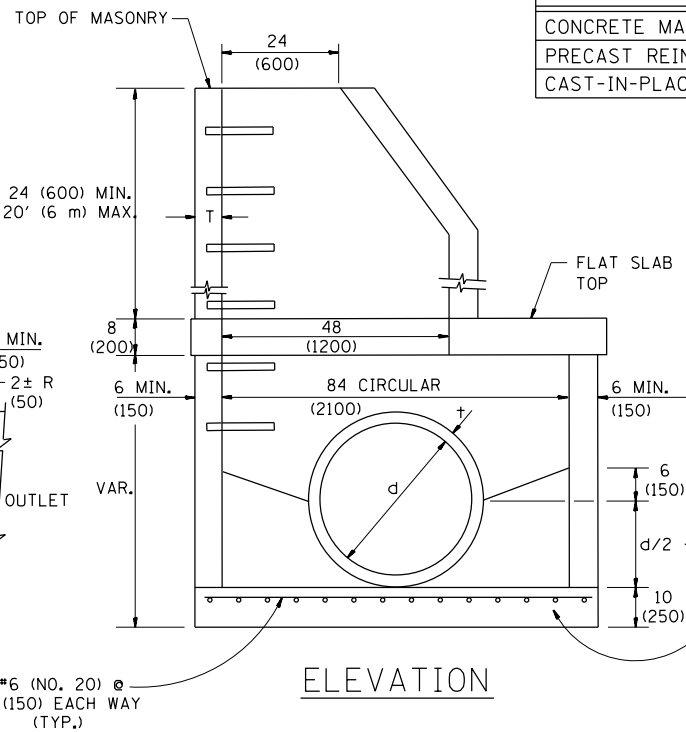
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5 (125)
PRECAST REINFORCED CONCRETE SECTIONS	4 (100)
CAST-IN-PLACE CONCRETE	6 (150)

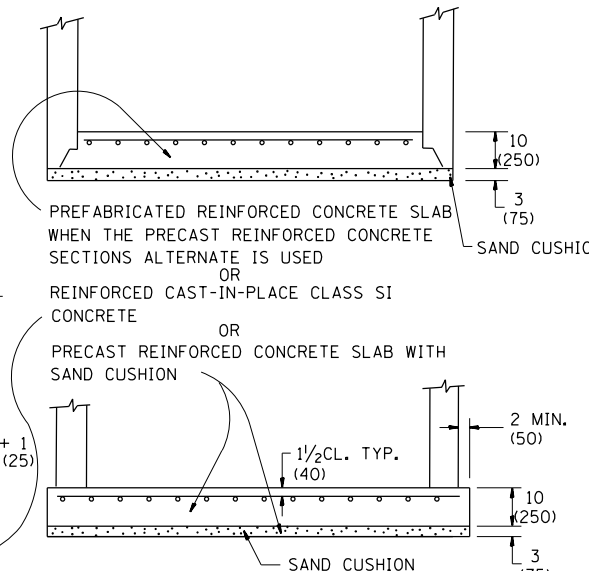


ELEVATION

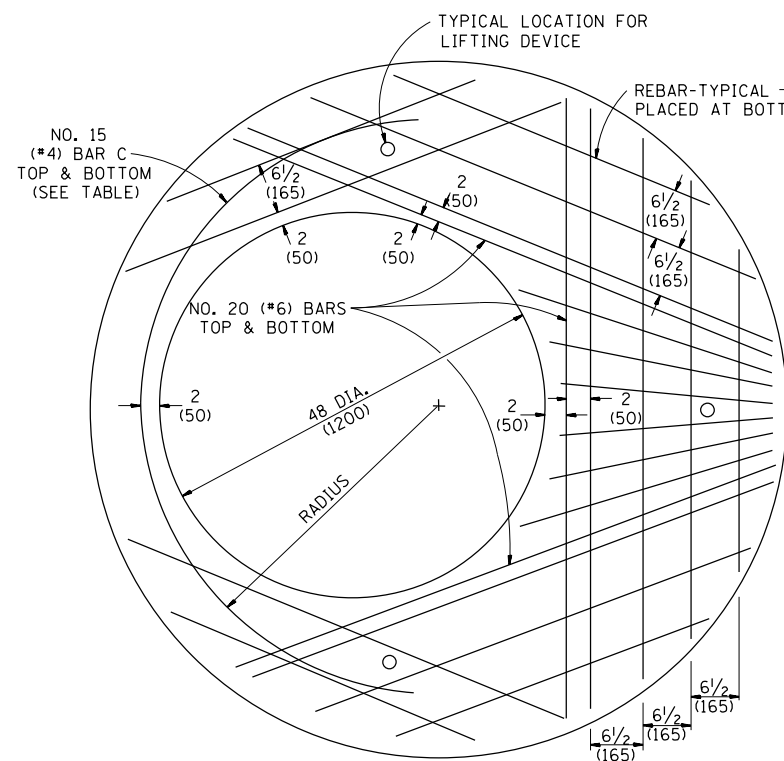
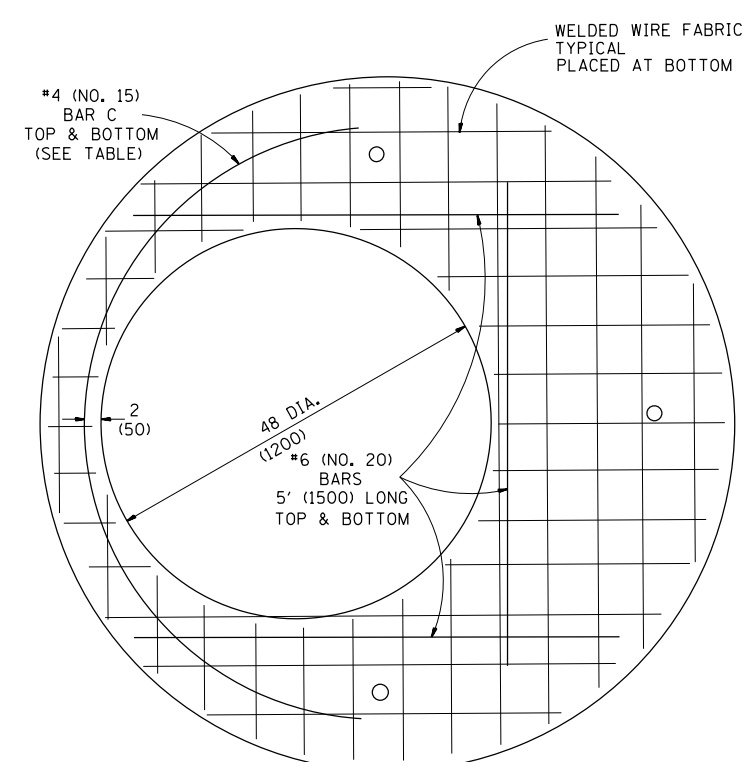
#6 (NO. 20) @ 6 (150) EACH WAY (TYP.)



ELEVATION

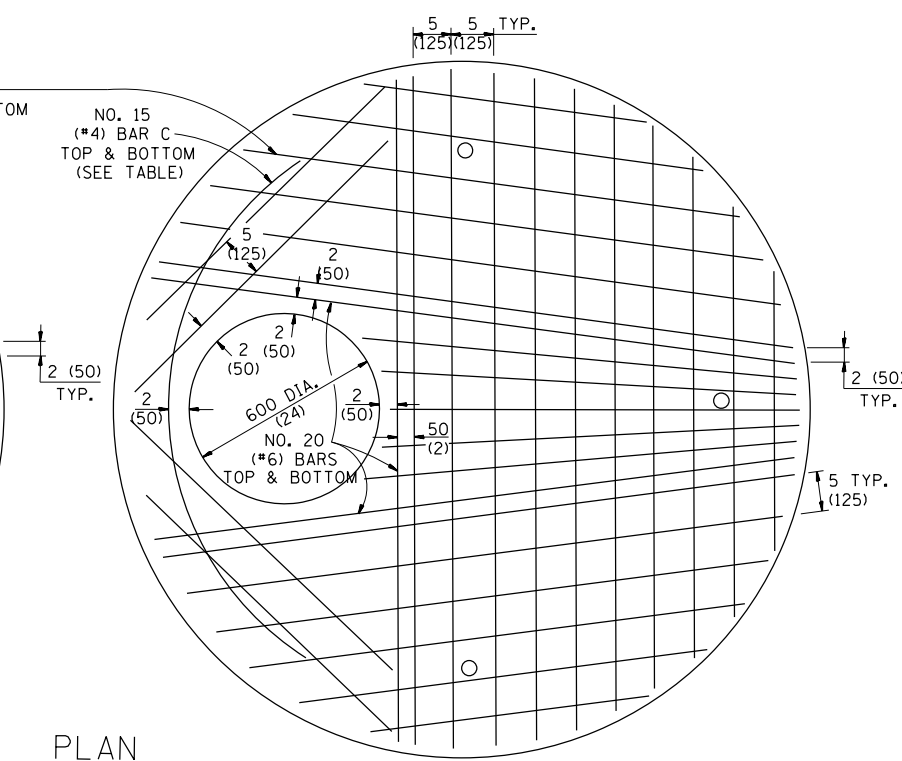


PREFABRICATED REINFORCED CONCRETE SLAB WHEN THE PRECAST REINFORCED CONCRETE SECTIONS ALTERNATE IS USED OR REINFORCED CAST-IN-PLACE CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLAB WITH SAND CUSHION



PLAN

SHOWING REBAR REINFORCEMENT

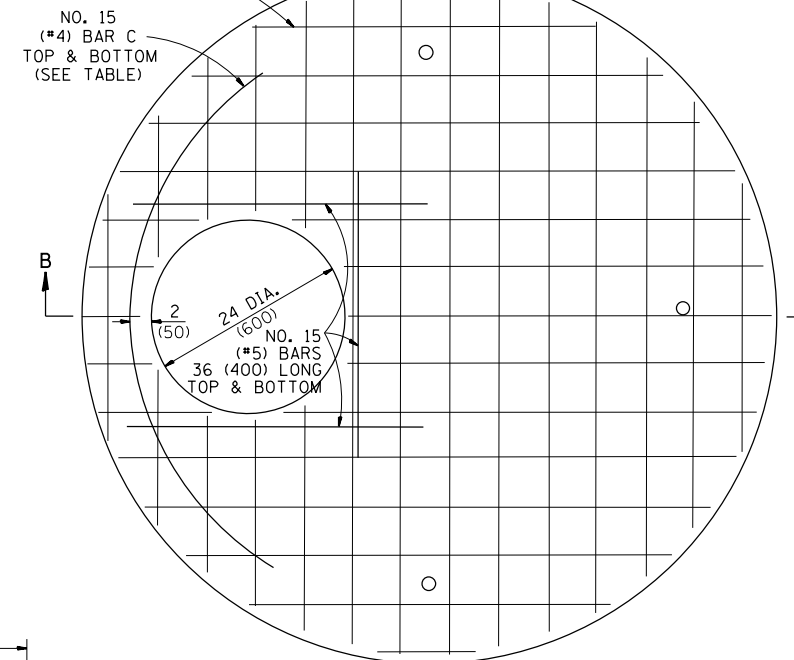


PLAN

GENERAL NOTES

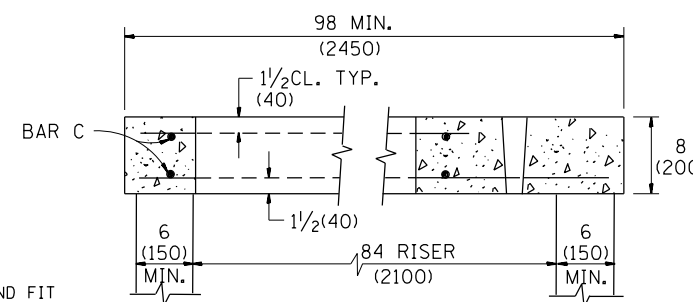
SEE STANDARD 2447 FOR DETAILS OF CAST IRON STEPS.  
JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.  
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

WELDED WIRE FABRIC TYPICAL PLACED AT BOTTOM



PLAN

SHOWING WELDED WIRE FABRIC REINFORCEMENT



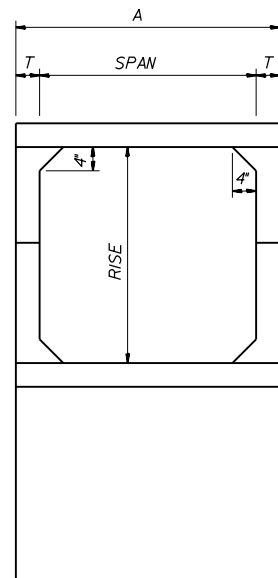
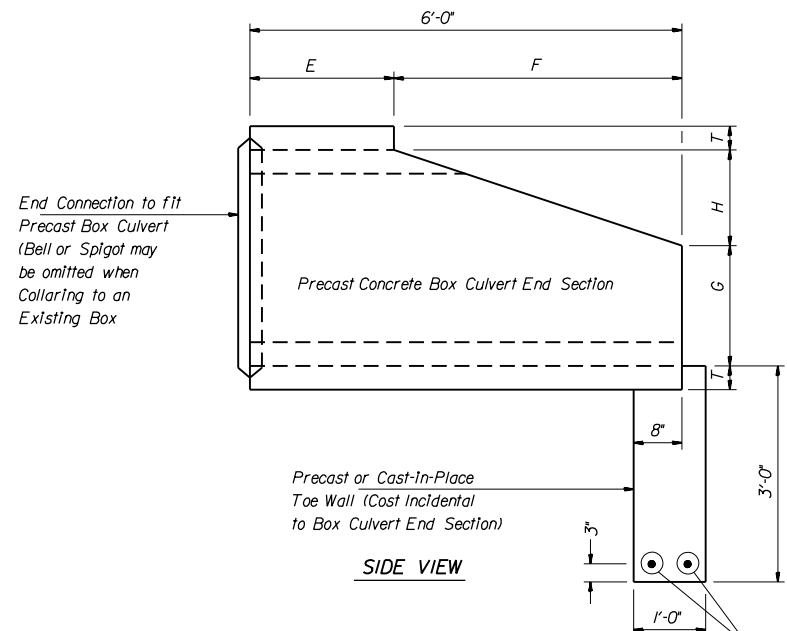
SECTION B-B

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

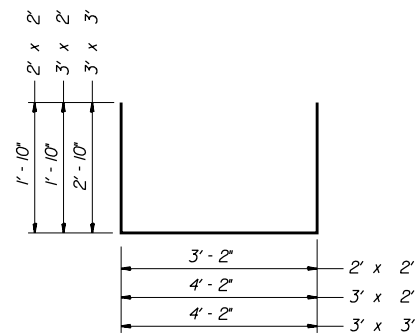
DIAMETER OF OPENING	REINFORCEMENT "AS" WWF OR BAR EACH DIRECTION	BAR C			
		SIZE	LENGTH	RADIUS	
24 (600)	1.06 SQ.IN./LIN.FT. (2244 SQ.mm/m)	#6 (NO.20)	#4 (NO.15)	72 (1800)	38 (950)
48 (1200)	1736 SQ.mm/m (0.82 SQ.IN./LIN.FT.)	#6 (NO.20)	#4 (NO.15)	108 (2700)	38 (950)



NOTE:  
Expansion Bolts shall consist of self drilling expansion shields and 3/4" diameter hooked bolts. Hooked bolts shall extend a minimum distance as specified, 9" or 18" into the new concrete. Minimum certified proof load = 4080 lbs.

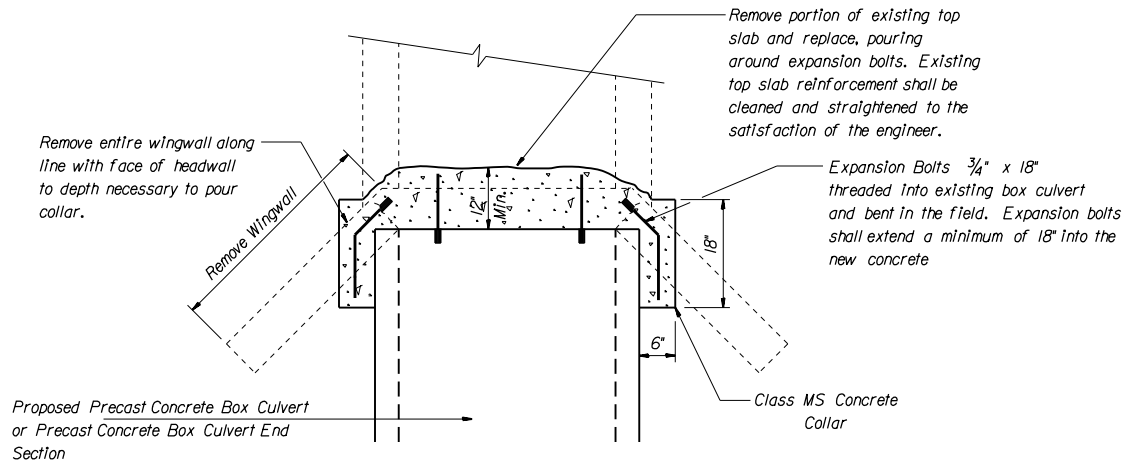


END VIEW

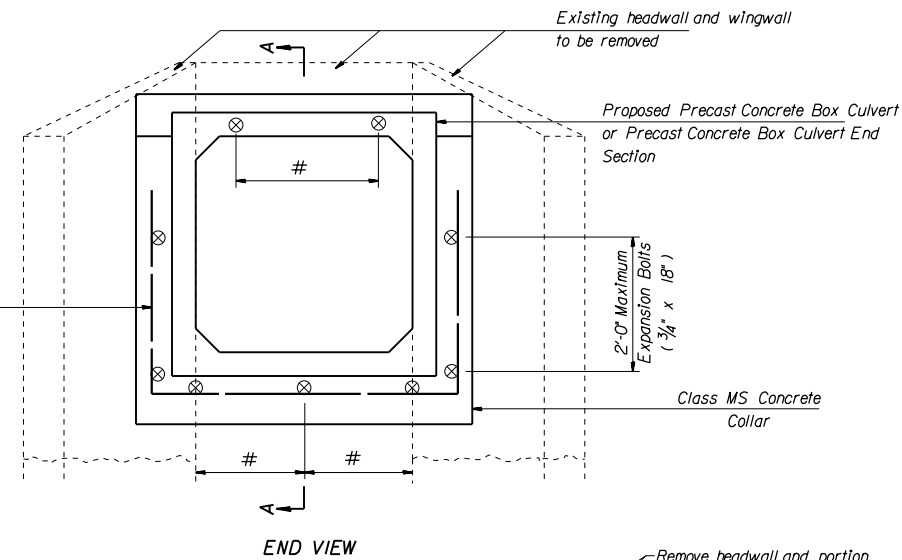


Bar s

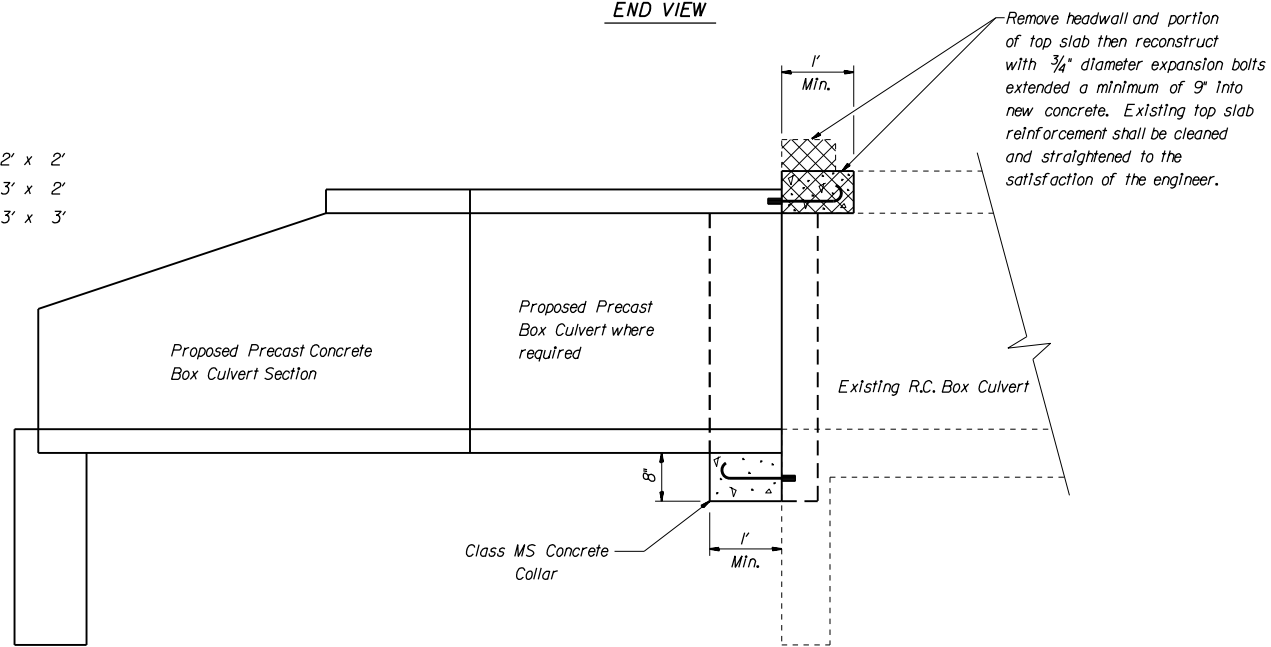
2 - #5 s Bars (Typical)  
2 - #4 Bars (Cast Incidental to Box Culvert End Section)



PLAN VIEW



END VIEW



SECTION A - A

NOTE:  
Removal of existing headwalls, portions of existing top slabs shall be paid for at the contract unit price for Concrete Headwall Removal.

# Number of expansion bolts and spacing

Span x Rise	Top Slab 3/4" x 9" *	Bottom Slab 3/4" x 9" *	Each Wing 3/4" x 18" *
2' x 2'	2 at 12"	2 at 12"	2 at 24"
3' x 2'	2 at 24"	3 at 18"	2 at 24"
3' x 3'	2 at 24"	3 at 18"	2 at 24"

\* The dimensions shown are the minimum extensions of the expansion bolts into the new concrete.

SCHEDULE OF ESTIMATED QUANTITIES

STATION	SIZE	CONCRETE REMOVAL	CONC.	EXPANSION BOLTS	REINFORCEMENT BARS
	( FT )	( C. Y. )	( C. Y. )	( EA. )	( LBS )

Span x Rise	T	A	E	F	G	H
2' x 2'	4"	2' - 8"	3' - 0"	3' - 0"	1' - 0"	1' - 0"
3' x 2'	4"	3' - 8"	3' - 0"	3' - 0"	1' - 0"	1' - 0"
3' x 3'	4"	3' - 8"	2' - 0"	4' - 0"	1' - 8"	1' - 4"

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
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PRECSTEXT.DGN		DATE - 1/09/96	REVISED -

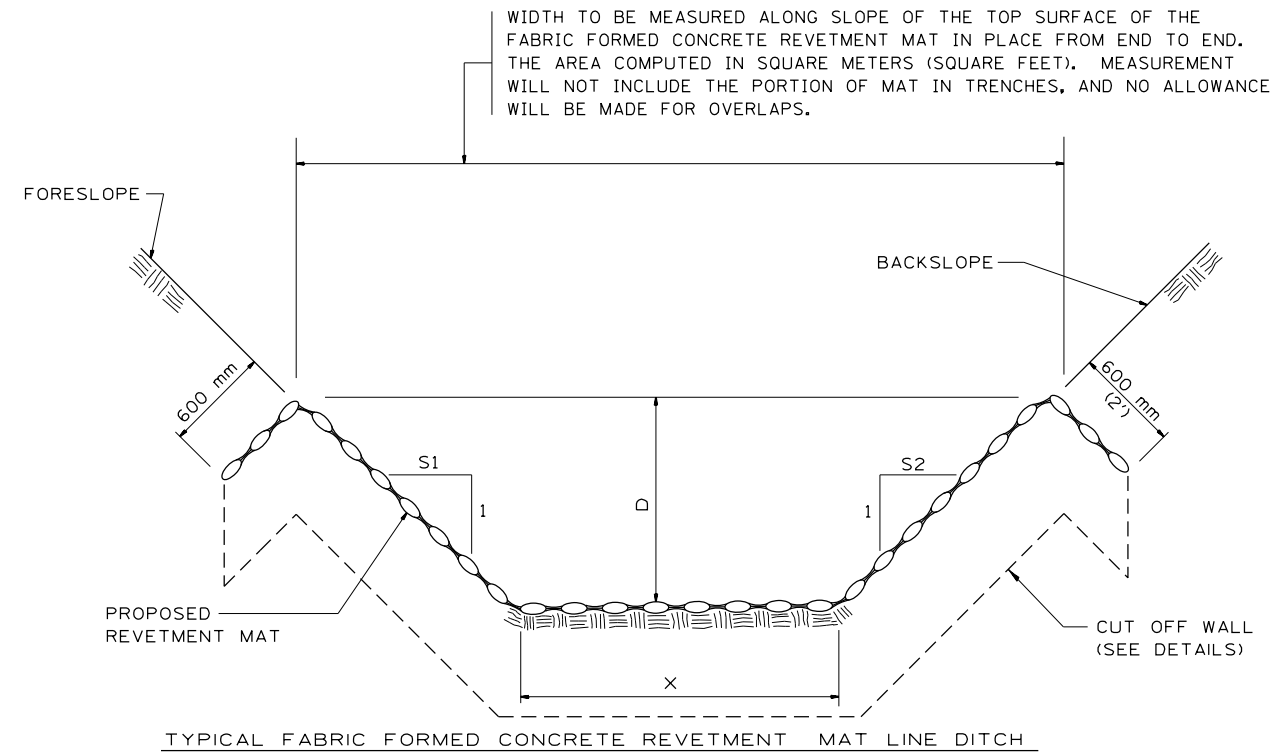
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT EXTENSION DETAILS

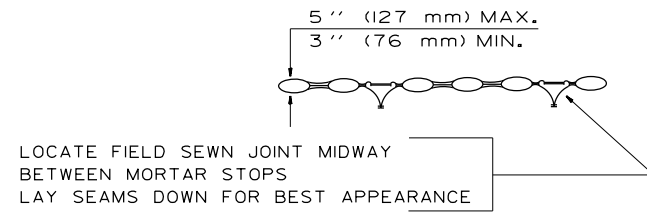
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FABRIC FORMED CONCRETE REVETMENT MAT DETAILS



TYPICAL FABRIC FORMED CONCRETE REVETMENT MAT LINE DITCH



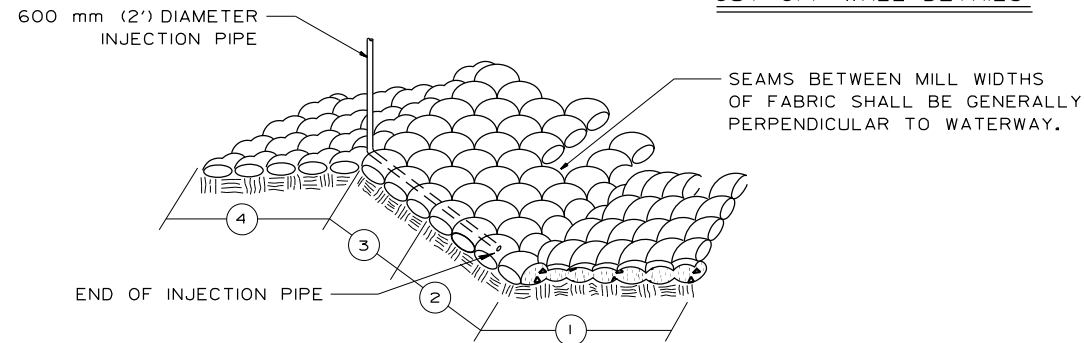
TYPICAL SECTION THRU FILTER POINT MAT

GENERAL NOTES

PRIOR TO GROUT INJECTION, THE FABRIC SHALL BE POSITIONED AT ITS DESIGN LOCATION. EACH PANEL SHALL BE A CONTINUOUS OR MONOLITHIC UNIT FOR ITS FULL WIDTH, INCLUDING THE TRENCH PORTION.

AFTER GROUTING HAS BEEN COMPLETED, THE VOID BETWEEN TRENCH WALL AND FILLED FABRIC SHALL BE BACKFILLED.

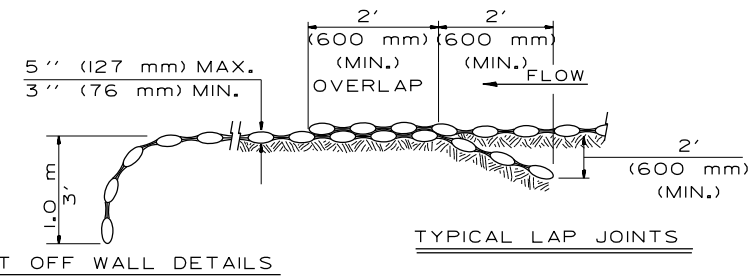
HOLES IN THE FABRIC LEFT BY THE REMOVAL OF THE GROUT HOSE OR INSERTS SHALL BE TEMPORARILY CLOSED BY INSERTING A PIECE OF BURLAP OR SIMILAR MATERIAL. THE BURLAP SHALL BE REMOVED WHEN THE MORTAR IS NO LONGER FLUID AND THE SURFACE IS FIRM TO HAND PRESSURE.



INSTALLATION DETAILS

1. IN PLACING INSERT POINTS THROUGH FABRIC USE CARE TO AVOID BREAKING DROP STITCHES.
2. CUT OFF WALLS SHALL BE INSTALLED AT THE UPSTREAM AND DOWNSTREAM ENDS.

LOCATION STA. to STA.	D "( mm)	X "( mm)	S-1	S-2	TOTAL WIDTH ' (m)	LENGTH ' (m)	AREA S. F. (m <sup>2</sup> )
-----	---	---	-----	-	-----	-	-----
-----	---	---	-----	-	-----	-	-----
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-----	---	---	-----	-	-----	-	-----
TOTAL QUANTITY							-----

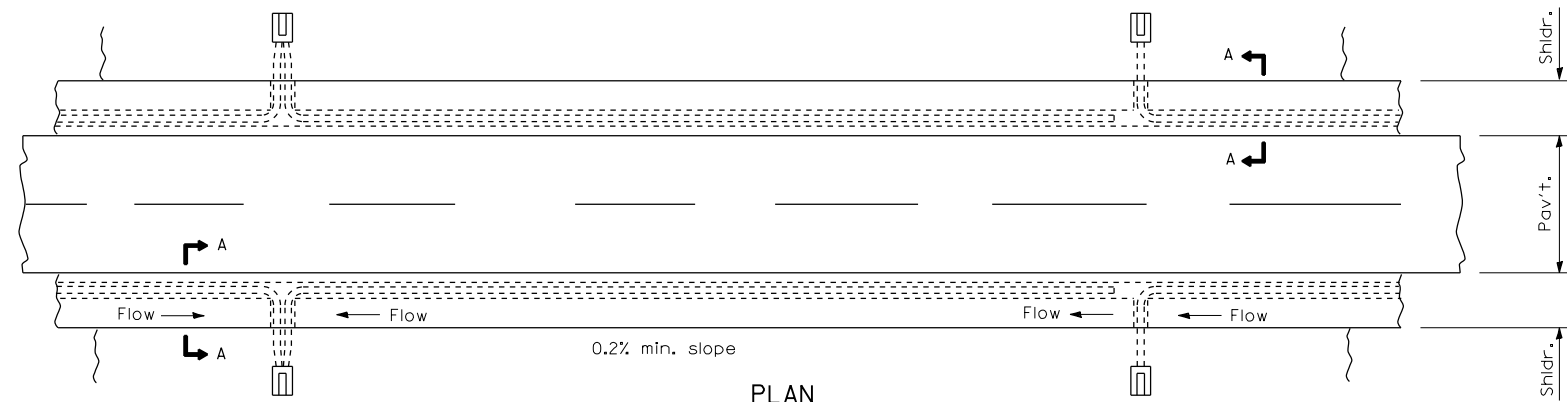




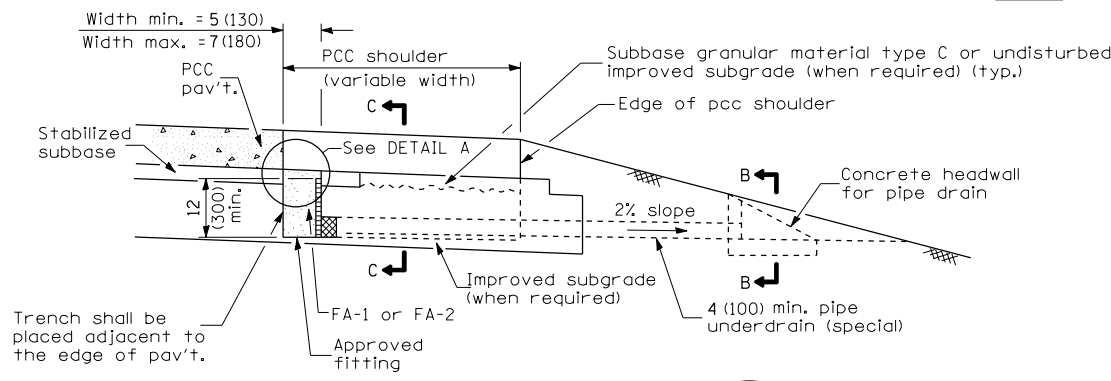




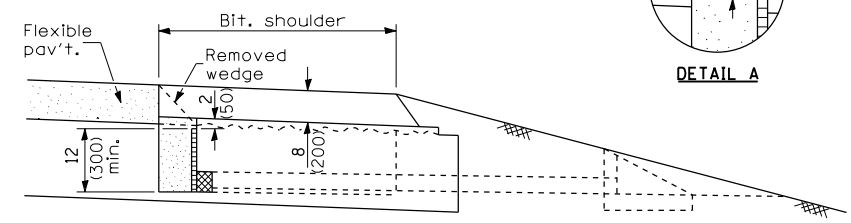




PLAN



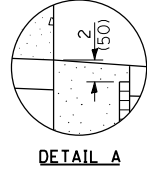
SECTION A-A  
(PCC Shoulder)



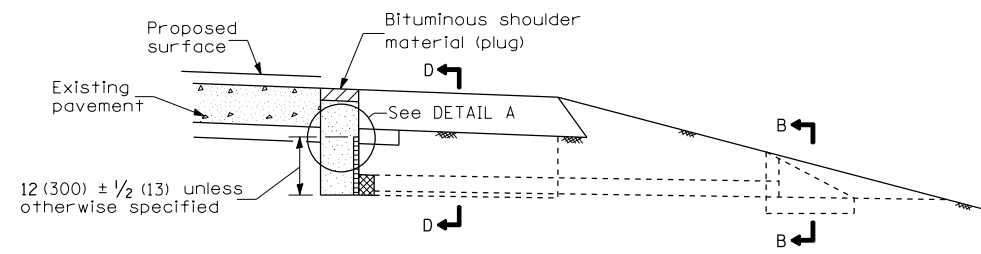
SECTION A-A  
(Bit. Shoulder)

(Dimensions and notes not shown shall be as shown in the above Section A-A)

NEW CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)



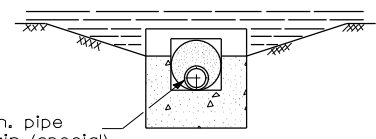
DETAIL A



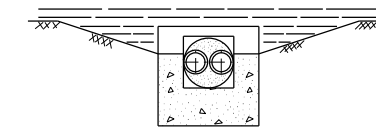
SECTION A-A

EXISTING CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)

(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)



SECTION B-B



SECTION B-B  
(Sag locations)

GENERAL NOTES

- See Standard 2362 for details of concrete headwall.
- See Standards 2237, 2429 and 2430 for details of shoulders not shown.
- The 24" (600 mm) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.
- All dimensions are in inches (millimeters) unless otherwise shown.

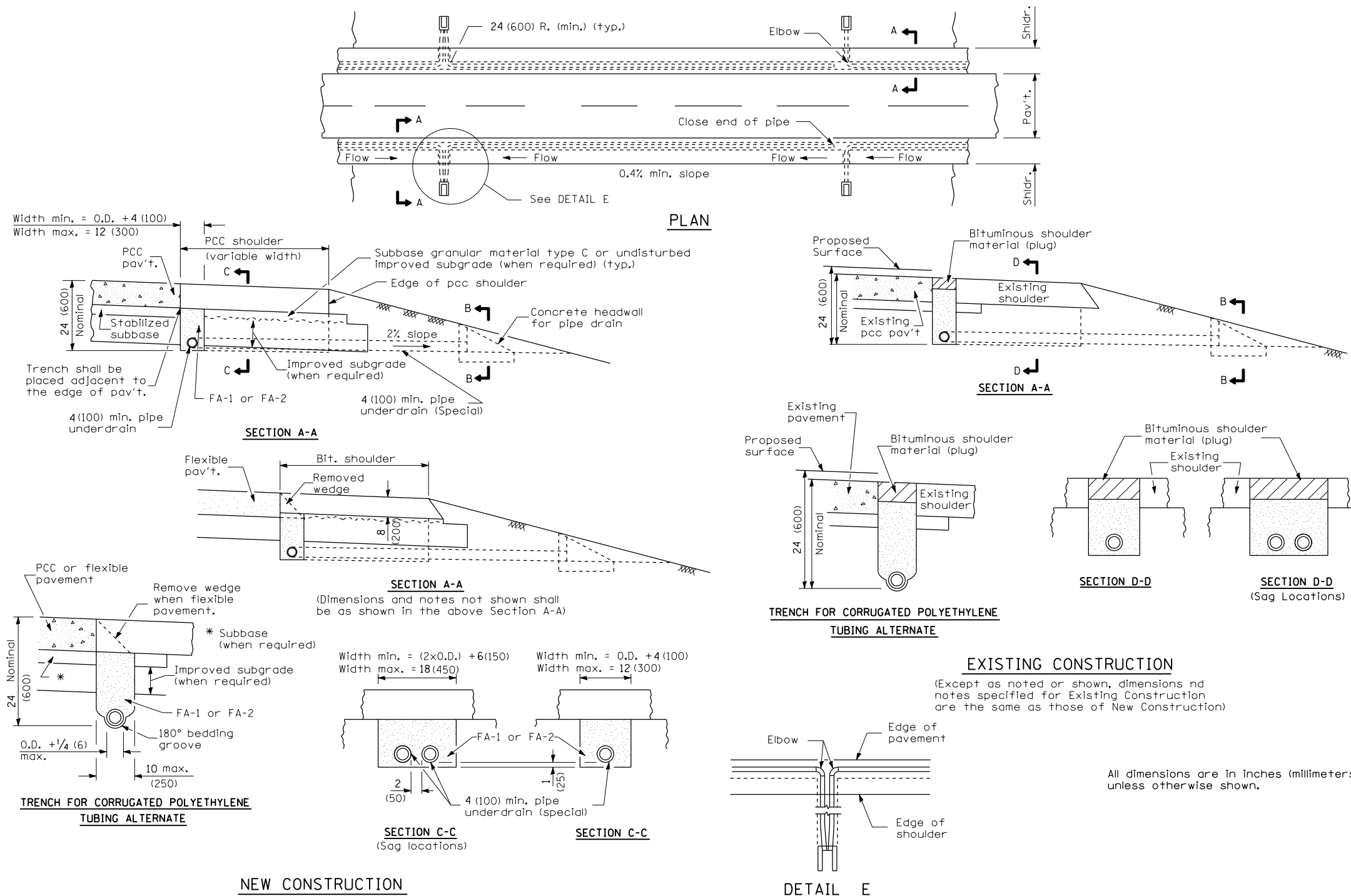
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Default	PLOT DATE = 5/10/2016	DATE - 7/17/96	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUB-SURFACE DRAINS

SCALE: SHEET OF SHEETS STA. TO STA.

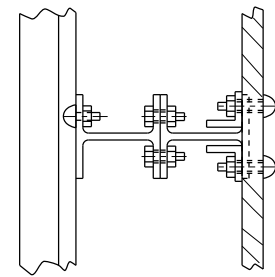
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



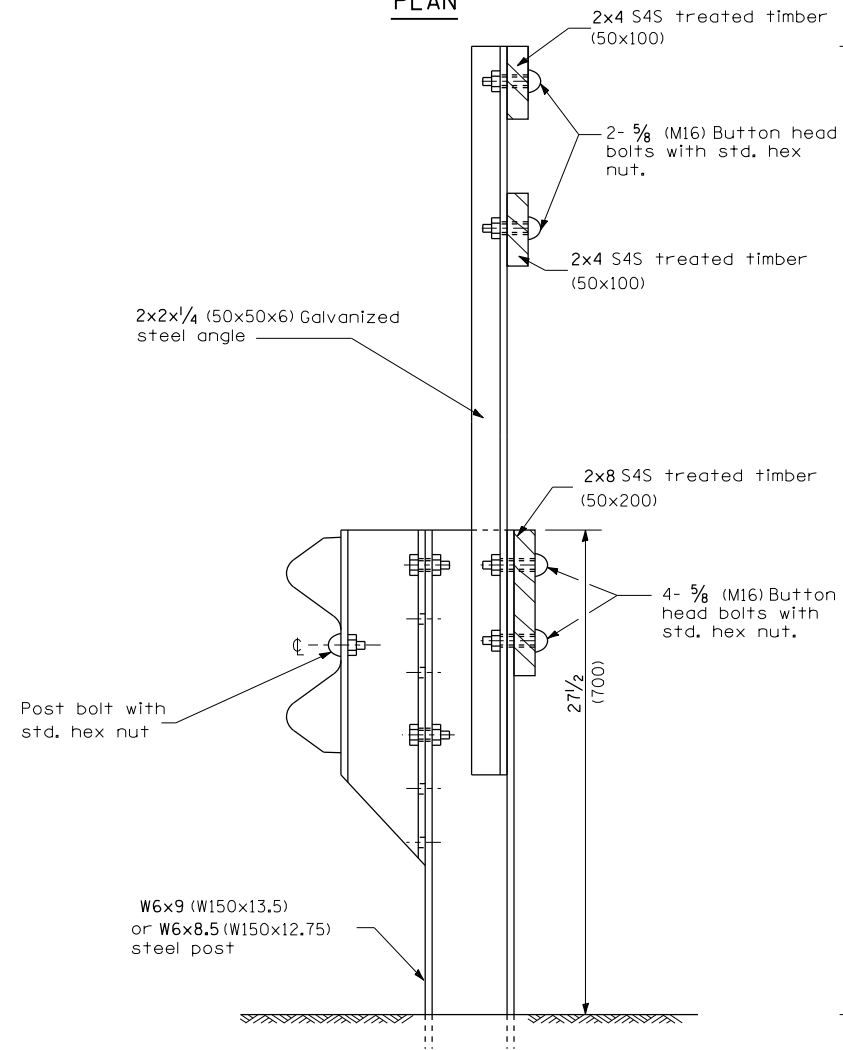
SUB-SURFACE DRAINS

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE DRAINS</b>				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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					JULY 17, 1996								

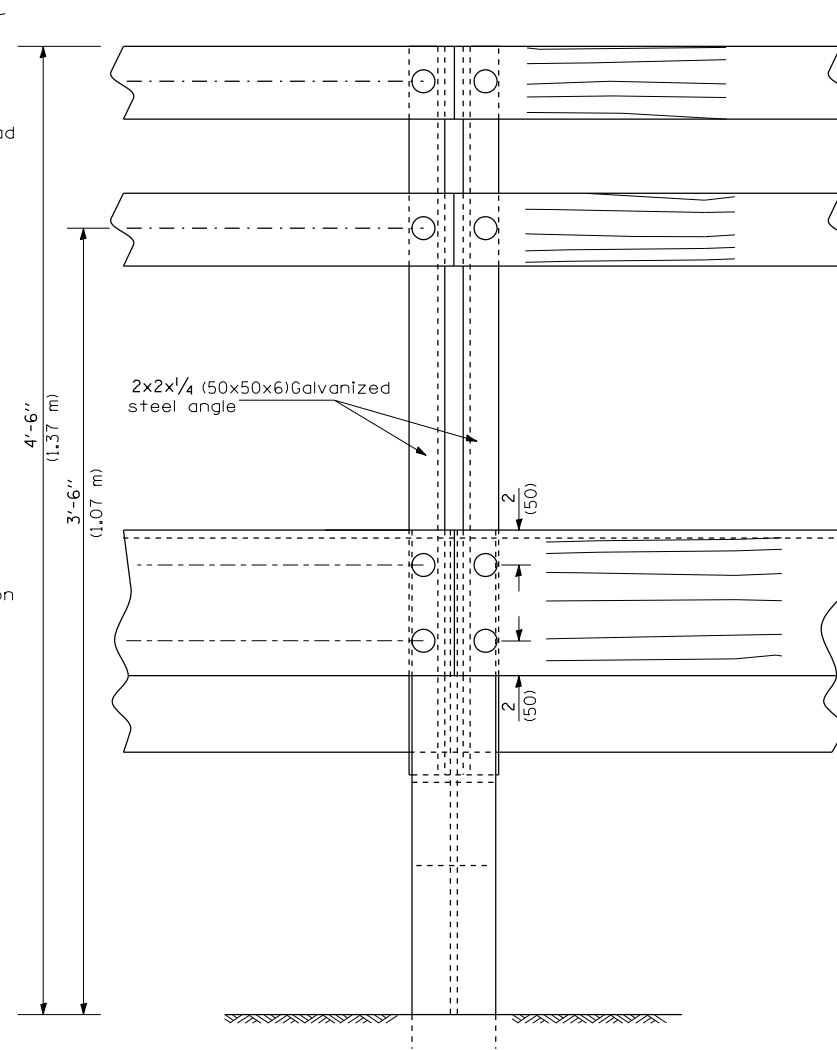




PLAN



SIDE ELEVATION



FRONT ELEVATION

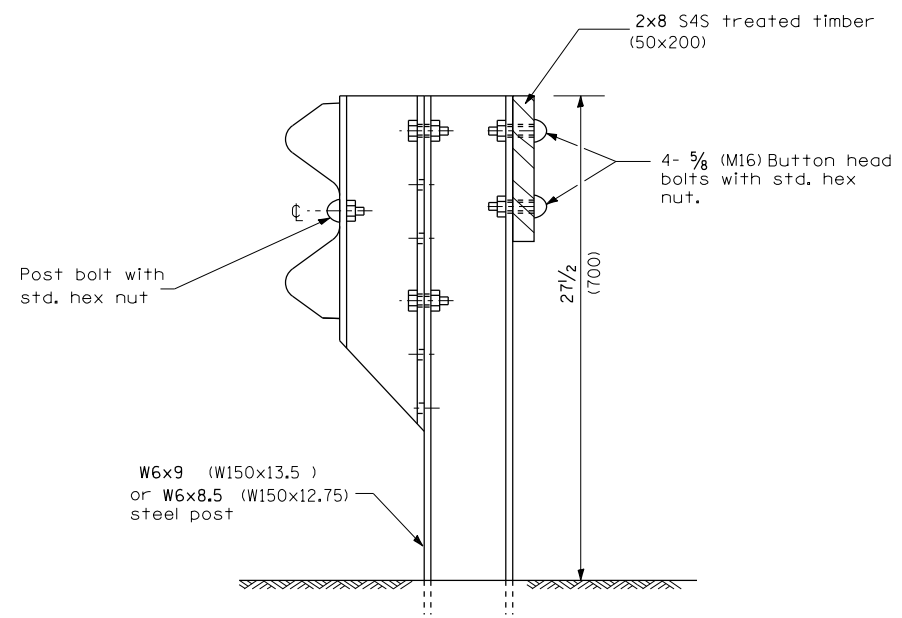
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

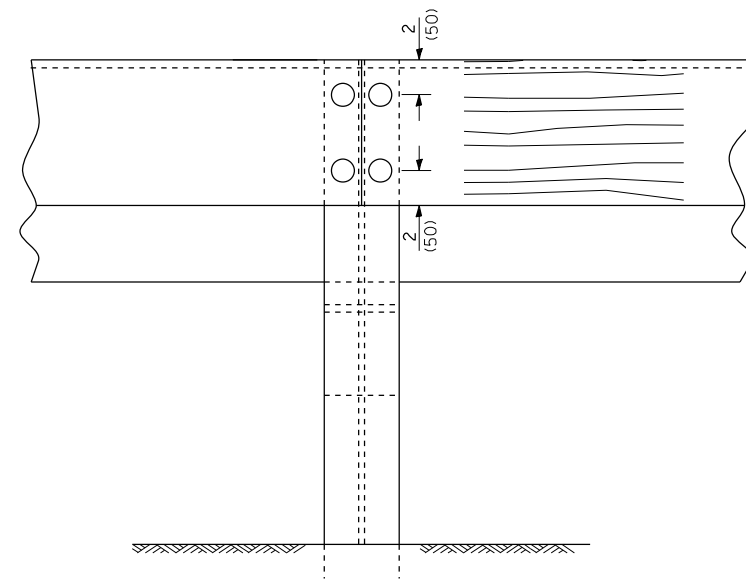
BIKE RAILS - WOOD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



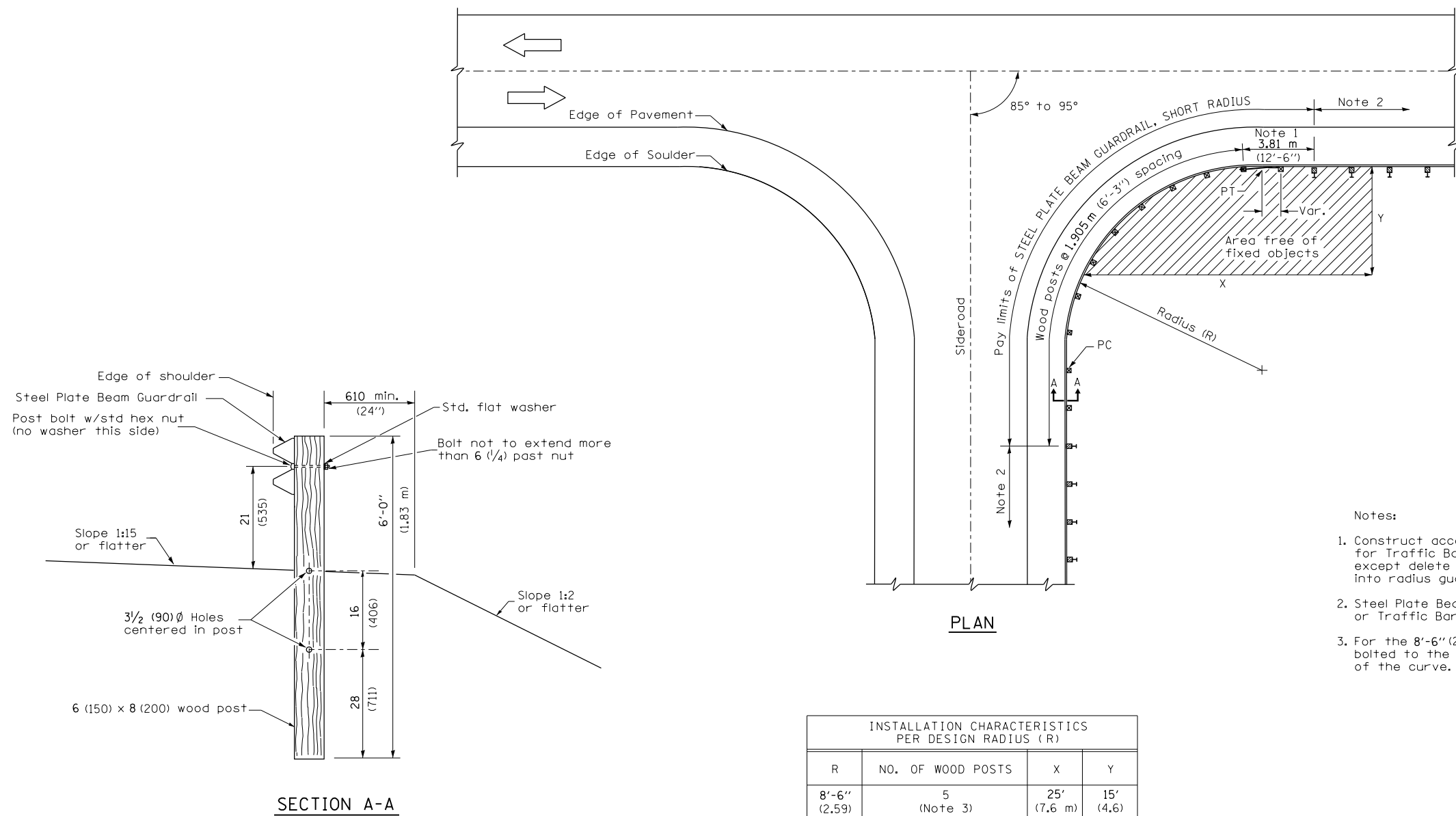
SIDE ELEVATION



FRONT ELEVATION

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BIKE RAILS - WOOD</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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BIKERAIL.DGN	PLOT DATE = 5/10/2016	DATE -	REVISED -									ILLINOIS FED. AID PROJECT	



- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
  2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
  3. For the 8'-6" (2.59 m) radius, the rail is not bolted to the post located at the midpoint of the curve.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (Note 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).  
 All dimensions are in inches (millimeters) unless otherwise shown.

GUARDRAIL SHORT RADIUS.DGN

BDE Memo 36-03 Attachment A

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 40:0.000 '1' / in.	DATE -	REVISED -			CONTRACT NO.					
	PLOT DATE = 5/10/2016					ILLINOIS FED. AID PROJECT					



INDUCTIVE VEHICLE DETECTION LOOP TABLE			
Posted advisory speed limit ( MPH )	D1 and D4 Dist. from stop bar to loop detector location	Distance from controller to loop	Number of loop turns
30	220 ft/67 m	0 ft to 567 ft 0 m to 173 m	4
35	260 ft/79 m	567 ft to 870 ft 173 m to 265 m	5
40	300 ft/91 m	870 ft to 1240 ft 265 m to 378 m	6
45	328 ft/100 m	1240 ft (Maximum) 378 m (Maximum)	6
50	375 ft/114 m		
55	420 ft/128 m		

NOTE: D2 and D3 shall call on red interval only

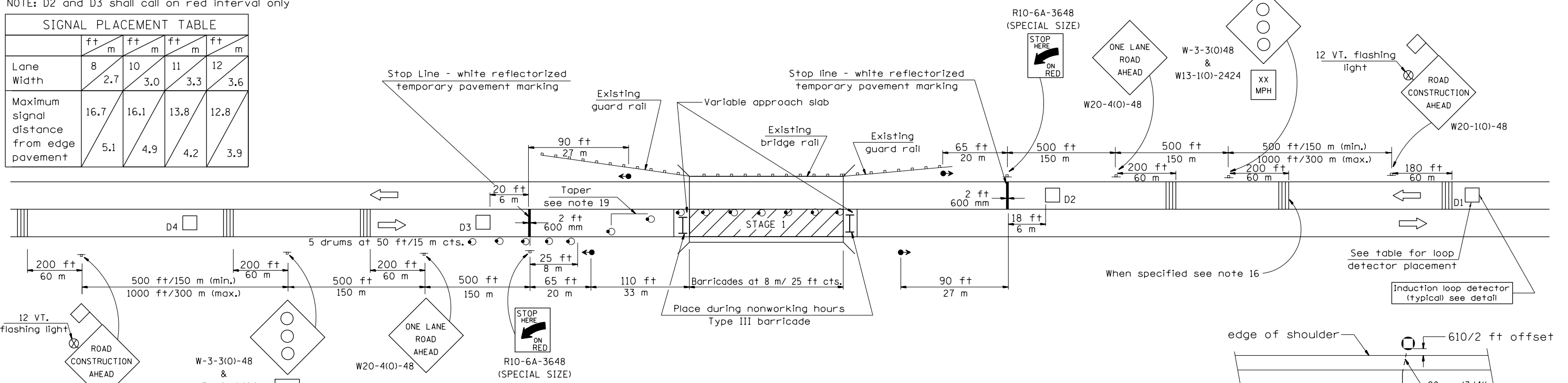
SIGNAL PLACEMENT TABLE								
	ft	m	ft	m	ft	m		
Lane Width	8	2.7	10	3.0	11	3.3	12	3.6
Maximum signal distance from edge pavement	16.7	5.1	16.1	4.9	13.8	4.2	12.8	3.9

### SPECIAL DETAIL FOR TRAFFIC CONTROL BRIDGE DECK STAGE CONSTRUCTION UTILIZING TRAFFIC ACTUATED SIGNALS AND BARRICADES TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

SEQUENCE OF OPERATION										
Movement	Interval	1	2	3	4	5	6	7	8	9
Eastbound		G	Y	R	R	R	R	R	R	R
Westbound		R	R	R	G	Y	R	R	R	R
Southbound		R	R	R	R	R	R	G	Y	R
Detectors		D1 D2		D3 D4		D5				

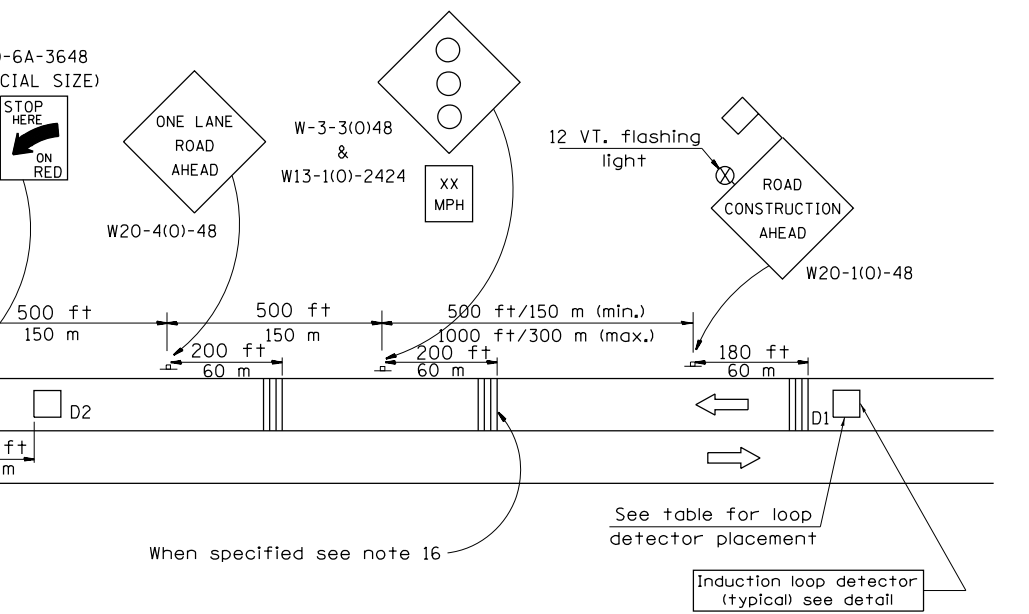
**SYMBOLS**

- work area
- 18"x18" (450 x 450) (min.) orange flag
- sign on permanent support
- drum or type II barricade w/steady burning light
- temporary rumble strip
- 6'x6' (1.8 m x 1.8 m) detector loop centered in lane
- traffic signals



- GENERAL NOTES**
- The district traffic department shall be notified at least 72 hours prior to placing the temporary signals in operation so that arrangements can be made to inspect the installation and set the timing of the signals.
  - The signals, controller cabinet and service pole shall be placed behind guardrail (existing or proposed) or shoulder break when applicable. See table for maximum signal placement.
  - See table for loop detector locations and number of loop turns.
  - At any time that the signals are not operating the signal heads shall be hooded and the SIGNAL AHEAD sign covered or removed.
  - The left signal shall normally be mounted at a height of 10 ft/3.0 m above the road surface measured to the bottom of the signal head. The right signal shall normally be mounted at a height of 12.5 ft/4.2 m above the road surface and measured to the bottom of the signal head. Backplates will be required on all signals.
  - All lenses shall be 1 ft/300 mm nominal diameter. The right signal head shall be aimed so the centers of the light beams of the indications are directed toward a point in the center of the approach lane 150 m/500 ft in advance of the signal. The left indication shall be aimed at a point in the center of the approach lane 30 m/100 ft in advance of the stop line.
  - ALL STAGES OF CONSTRUCTION**  
The edge of existing open traffic lane on each approach to the bridge shall be delineated with double vertical panels (Detail B) and white bi-directional temporary pavement markers. These devices shall be placed at 25 ft/8 m centers between the stop line and the bridge.
  - Double vertical panels (no lights required) shall be placed at 25 ft/8 m centers on the existing parapet wall or bridge rail (Detail A) adjacent to the open traffic lane. Temporary white bi-directional pavement markers (25 ft/8 m centers) shall be placed on top of the hubguard when a sidewalk exists within 1 ft/300 mm of the edge of the existing open traffic lane.

- All existing pavement markings in the open lane are to be removed from stop line to stop line and shall be paid for as part of STANDARD 2309 (SPECIAL).
- All signs shall be post mounted if the closure time exceeds four days.
- Longitudinal dimensions may be adjusted slightly to fit field conditions.
- All vehicles, equipment, men and their activities are restricted at all times to one side of the pavement unless otherwise authorized by the engineer.
- Advisory speed plates shall be installed where the normal posted speed is greater than 40 MPH. The speed shall be determined at the site by the engineer.
- District Traffic (Operation and Permit) engineers shall be notified one week prior to a traffic lane width restriction of less than 12.5 ft/4.2 m to allow the Department to install width restriction and wide load detour signing.
- Flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series.
- When specified, temporary rumble strips shall be installed where shown. (STANDARD 2298)
- On both approaches, existing center line pavement markings located between the stop bars and the work area shall be removed as soon as the barricades are in place and replaced with temporary or permanent pavement marking as soon as the barricades are removed.
- See SPECIAL PROVISIONS for the traffic signal controller and detector loop requirements.
- The taper shall be formed by placing one barricade for each 600 mm/2 ft of lane width.
- Bi-directional lights shall be used at night along the center line whether the work area is separated from the travelled lane using barricades or by using other devices. Mono-directional lights shall be used at night on all other barricades.
- Form BT 725 is required.



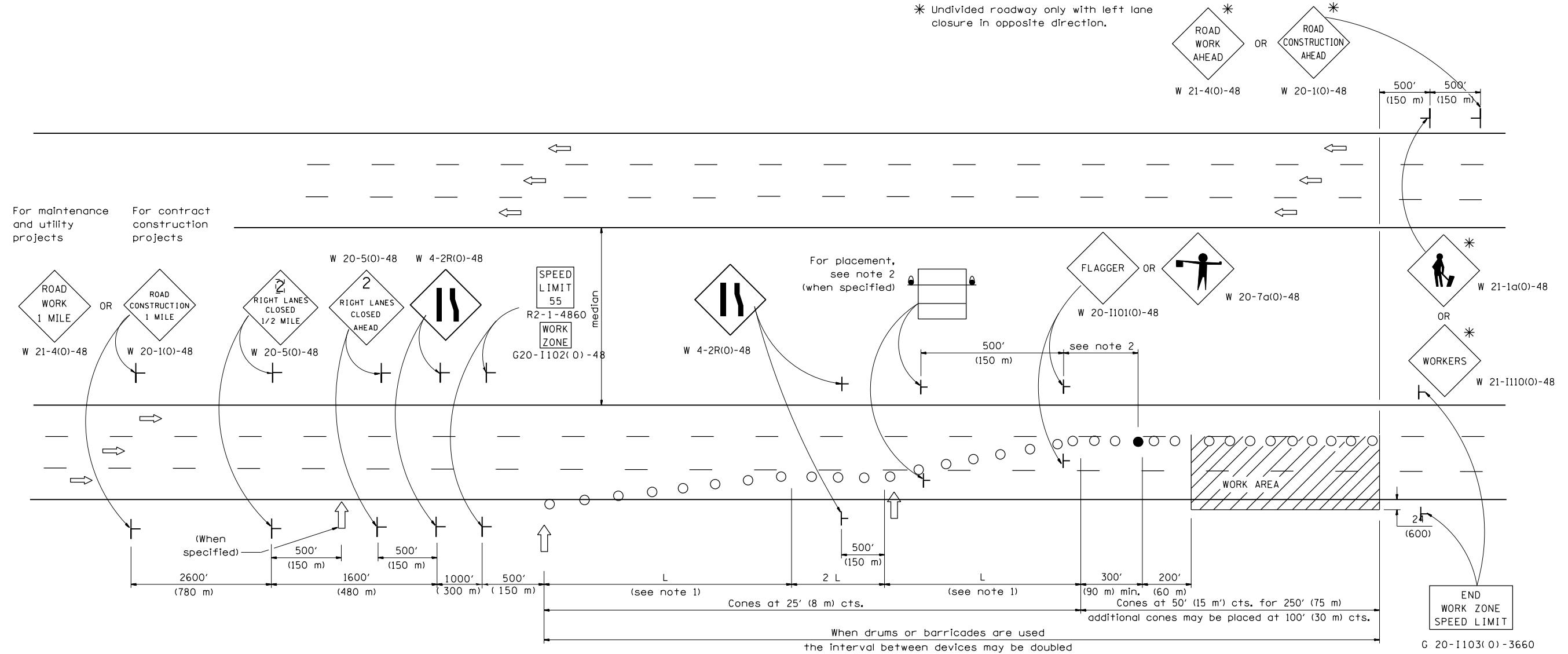
**INDUCTION LOOP DETECTOR DETAIL**

NOTE: Loop centered in approach lane (see table for number of loop turns)

**DETAIL B**  
(See general note no. 7)

All dimensions are in feet & inches unless otherwise shown.

\* Undivided roadway only with left lane closure in opposite direction.



GENERAL NOTES

1. The "L" distance equals lane width times the taper ratio.

Normal Posted Speed		Taper Ratio (Length to pavement width)	
mph	km/h	ft/ft	m/mm
65	100	65/1	20/300
60	100	60/1	18/300
55	90	55/1	17/300
45 or less	80	45/1	14/300

2. The CONSTRUCTION SPEED LIMIT signs and the FLAGGER signs shall be moved as necessary to maintain a spacing of 500' (1500 m) to 2500' (750 m) between the flagger and FLAGGER signs.

3. This standard also applies when work is being performed in the left and center lanes. Under these conditions, LEFT LANE CLOSED signs shall be substituted for RIGHT LANE CLOSED signs. On undivided highways, signs shall be added in the opposite direction as shown and cones shall be placed along the centerline throughout the taper and work area. On left lane closures with narrow medians, the arrow board at the beginning of the lane closure shall be relocated behind the taper as necessary so that a clearance of at least 1.2 m (4') can be maintained from the opposing traffic.

4. Median signs may be omitted when the median is less than 10' (3 m).

5. Cones may be substituted for barricades or drums at half spacing during day operations. On fully access controlled facilities, cones shall be a minimum of 28" (700 mm) in height.

6. Reflectorized temporary pavement marking tape shall be placed throughout the taper and for 300' (90 m) alongside the work area where the closure time is greater than fourteen days. The edge line shall be yellow for left lane closures. Raised reflective pavement markers at 8 m (25') centers may be used to supplement the pavement marking tape (cost incidental).

7. The Flaggers shall be stationed approximately 200' (60 m) in advance of the work party.

8. Traffic Control and Protection Standard 701401(Special) shall conform to the applicable portions of Section 701 of the Standard Specifications.

9. Traffic control devices shall conform to the requirements of Section 702 of the Standard Specifications.

10. All signs, cones, barricades, and drums are to be removed at completion of the day's operations and the work area opened to traffic.

SYMBOLS

- Construction speed limit sign
- Arrowboard
- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign
- Cone, drum or barricade

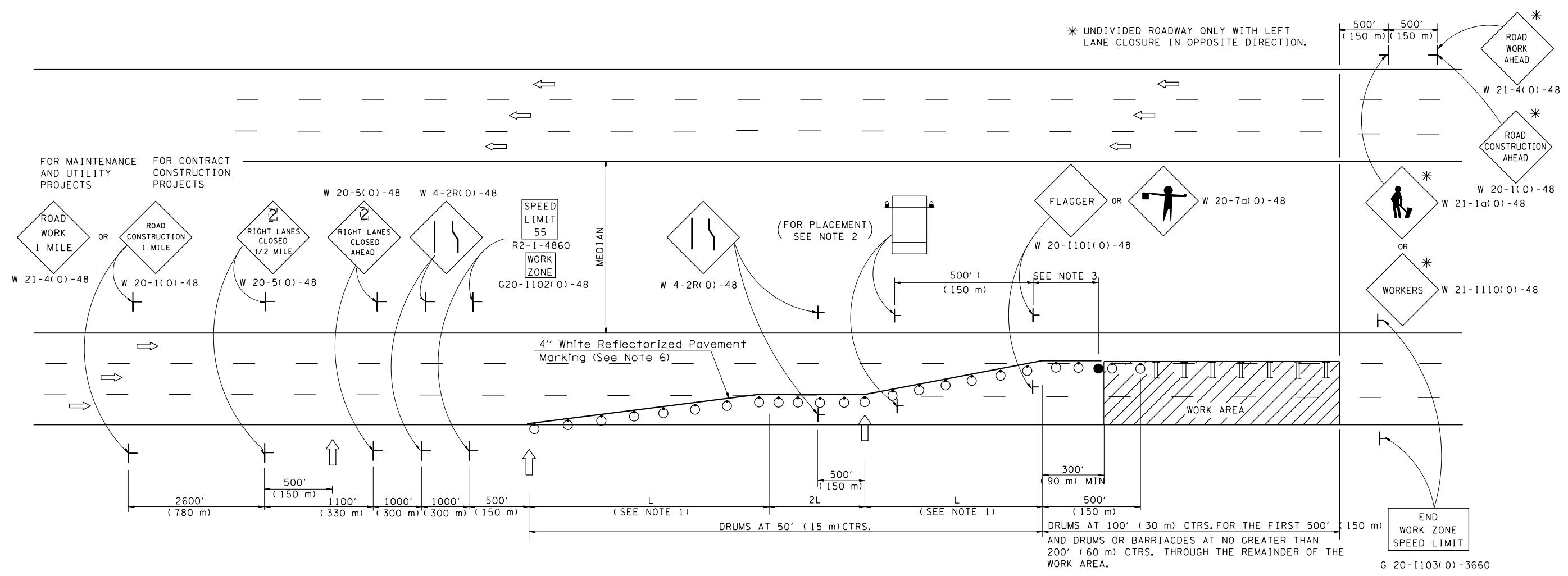
MULTILANE, DIVIDED AND UNDIVIDED, RURAL DAY OPERATIONS ONLY

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE CENTER LANE AND LANE ADJACENT TO THE SHOULDER

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = 3315S.DGN	USER NAME = Verenskif	DESIGNED - NAK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION STANDARD 701406 (SPECIAL)</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 48.0000' / in.	CHECKED - NAK	REVISED -	SCALE:			SHEET	OF	SHEETS	STA.	TO	STA.
PLOT DATE = 5/10/2016	DATE - 4/14/98	REVISED -	CONTRACT NO.			ILLINOIS FED. AID PROJECT					

\* UNDIVIDED ROADWAY ONLY WITH LEFT LANE CLOSURE IN OPPOSITE DIRECTION.



**GENERAL NOTES**

- The "L" distance equals lane width times the taper ratio.

Normal Posted Speed		Taper Ratio (Length to pavement width)	
mph	km/h	ft/ft	m/mm
65	100	65/1	20/300
60	100	60/1	18/300
55	90	55/1	17/300
45 or less	80	45/1	14/300
- The CONSTRUCTION SPEED LIMIT signs and the FLAGGER signs shall be moved as necessary to maintain a spacing of 500' (150 m) to 2500' (750 m) between the flagger and FLAGGER signs.
- This standard also applies when work is being performed in the left and center lanes. Under these conditions, LEFT LANE CLOSED signs shall be substituted for RIGHT LANE CLOSED signs. On undivided highways, signs shall be added in the opposite direction as shown and cones shall be placed along the centerline throughout the taper and work area. On left lane closures with narrow medians, the arrow board at the beginning of the lane closure shall be relocated behind the taper as necessary so that a clearance of at least 4' (1.2 m) can be maintained from the opposing traffic.
- Median signs may be omitted when the median is less than 10' (3 m).

- Cones may be substituted for barricades or drums at half spacing during day operations. On fully access controlled facilities, cones shall be a minimum of 700(28) in height.
- ReflectORIZED temporary pavement marking tape shall be placed throughout the taper and for 300' (90 m) alongside the work area where the closure time is greater than fourteen days. The edge line shall be yellow for left lane closures. Raised reflective pavement markers at 25' (8 m) centers may be used to supplement the pavement marking tape (cost incidental).
- The Flaggers shall be stationed approximately 60 m (200') in advance of the work party.
- Traffic Control and Protection Standard 701401(Special) shall conform to the applicable portions of Section 701 of the Standard Specifications.
- Traffic control devices shall conform to the requirements of Section 702 of the Standard Specifications.

- SYMBOLS**
- CONSTRUCTION SPEED LIMIT SIGNS
  - ARROWBOARD
  - WORK AREA
  - BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - FLAGGER WITH TRAFFIC CONTROL SIGN
  - DRUM WITH STEADY BURNING LIGHT

**MULTILANE, DIVIDED AND UNDIVIDED, RURAL DAYLIGHT OPERATIONS EXCEEDING ONE DAY**  
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCR OACH ON CENTER LANE AND LANE ADJACENT TO THE SHOULDER

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = Verenskif	DESIGNED - JCN	REVISED - JCN 1FEB96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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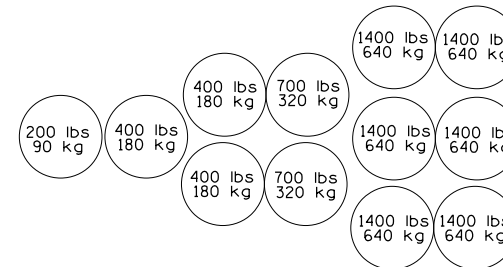


**SPECIAL DETAIL FOR TRAFFIC CONTROL  
BRIDGE DECK STAGE CONSTRUCTION  
UTILIZING TRAFFIC ACTUATED SIGNALS AND  
TEMPORARY BARRIERS  
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES**

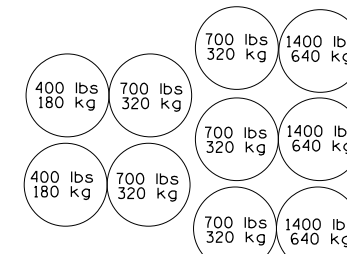
GENERAL NOTES

1. The district traffic department shall be notified at least 72 hours prior to placing the temporary signals in operation so that arrangements can be made to inspect the installation and set the timing of the signals.
2. The signals, controller cabinet and service pole shall be placed behind guardrail (existing or proposed) or shoulder break when applicable. See table on sheet 1 of 2 for maximum signal placement.
3. See tables on sheet 1 of 2 for loop detector locations and number of loop turns.
4. At any time that the signals are not operating the signal heads shall be hooded and the SIGNAL AHEAD sign covered or removed.
5. The left signal shall normally be mounted at a height of 10' (3.0 m) above the road surface measured to the bottom of the signal head. The right signal shall normally be mounted at a height of 14' (4.2 m) above the road surface and measured to the bottom of the signal head. Backplates will be required on all signals.
6. All lenses shall be 12 (300 mm) nominal diameter. The right signal head shall be aimed so the centers of the light beams of the indications are directed toward a point in the center of the approach lane 500' (150 m) in advance of the signal. The left indication shall be aimed at a point in the center of the approach lane 100' (30 m) in advance of the stop line.
7. **ALL STAGES OF CONSTRUCTION**  
The edge of existing open traffic lane on each approach to the bridge shall be delineated with double vertical panels (Detail B) and white bi-directional temporary pavement markers. These devices shall be placed at 25' (8 m) centers between the stop line and the bridge. Bi-directional steady burning lights attached to double vertical panels (Detail A) shall be placed at 25' (8 m) centers on the tapered portion of the concrete barrier and at 50' (15 m) centers on the temporary bridge rail or portion of the barrier on the bridge (3 minimum).
8. Double vertical panels (no lights required) shall be placed at 25' (8 m) centers on the existing parapet wall or bridge rail (Detail A) adjacent to the open traffic lane. Temporary white bi-directional pavement markers (25' (8 m) centers) shall be placed on top of the hubguard when a sidewalk exists within 12 (300 mm) of the edge of the existing open traffic lane.
9. All existing pavement markings in the open lane are to be removed from stop line to stop line and shall be paid for as part of STANDARD 701321 (SPECIAL).
10. All signs shall be post mounted if the closure time exceeds four days.
11. Longitudinal dimensions may be adjusted slightly to fit field conditions.
12. All vehicles, equipment, men and their activities are restricted at all times to one side of the pavement unless otherwise authorized by the engineer.
13. Temporary bridge rail shall be used across the bridge when specified in the plans.
14. Advisory speed plates shall be installed where the normal posted speed is greater than 40 MPH (70 km/h). The speed shall be determined at the site by the engineer.
15. District Traffic (Operation and Permit) engineers shall be notified one week prior to a traffic lane width restriction of less than 14' (4.2 m) to allow the Department to install width restriction and wide load detour signing.
16. Flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series.
17. When specified, temporary rumble strips shall be installed where shown. (STANDARD 702001)
18. On both approaches, existing center line pavement markings located between the stop bars and the temporary concrete barrier or bridge rail shall be removed as soon as the barrier or rails is in place and replaced with temporary or permanent pavement marking as soon as the barrier or rail is removed.
19. See SPECIAL PROVISIONS for the traffic signal controller and detector loop requirements.
20. Form BT 725 is required.

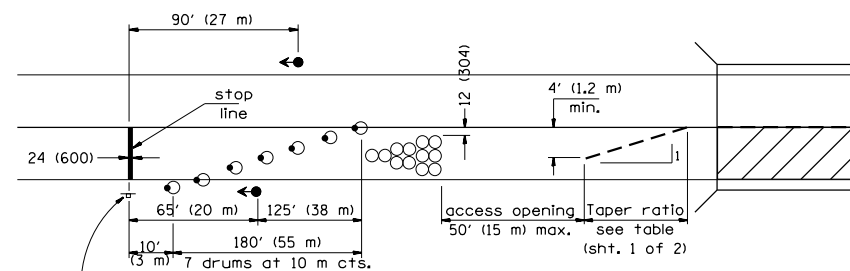
**SAND MODULE IMPACT ATTENUATOR CONFIGURATION**



POSTED SPEED 40 mph (70 km/h) OR MORE



POSTED SPEED LESS THAN 40 mph (70 km/h)



**NOTES**

1. The contractor may use this detail where greater access to the work area is required. No additional compensation will be allowed if the contractor elects to use this detail.
2. The sand modules may be placed directly on the pavement or on pallets or skids (maximum height 2'-6" (60 mm)).
3. The impact attenuators shall be striped in conformance with the requirements for drums in STANDARD 2298 and shall meet the requirements of the RECURRING SPECIAL PROVISIONS for sand module impact attenuators.
4. Barricades or drums with bi-directional steady burning lights delineating the closed lane shall be placed in the access opening during nonworking hours (3 minimum).

All dimensions are in inches  
(millimeters) unless otherwise shown.

TWO-LANE, TWO WAY TRAFFIC  
ONE LANE CLOSURE ON A BRIDGE  
DECK DAY OR NIGHT OPERATIONS

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - VTY 11-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION STANDARD 701321 (SPECIAL)</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
2409S.DGN	PLT SCALE = 40.000' / in.	CHECKED -	REVISED -			CONTRACT NO.					
	PLT DATE = 5/10/2016	DATE - 5/03/96	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

INDUCTIVE VEHICLE DETECTION LOOP TABLE			
Posted advisory speed limit ( MPH )	D1 and D4 Dist. from stop bar to loop detector location	Distance from controller to loop	Number of loop turns
30	67 m	0 m to 173 m	4
35	79 m	173 m to 265 m	5
40	91 m	265 m to 378 m	6
45	100 m	378 m (Maximum)	6
50	114 m		
55	128 m		

NOTE: D2 and D3 shall call on red interval only

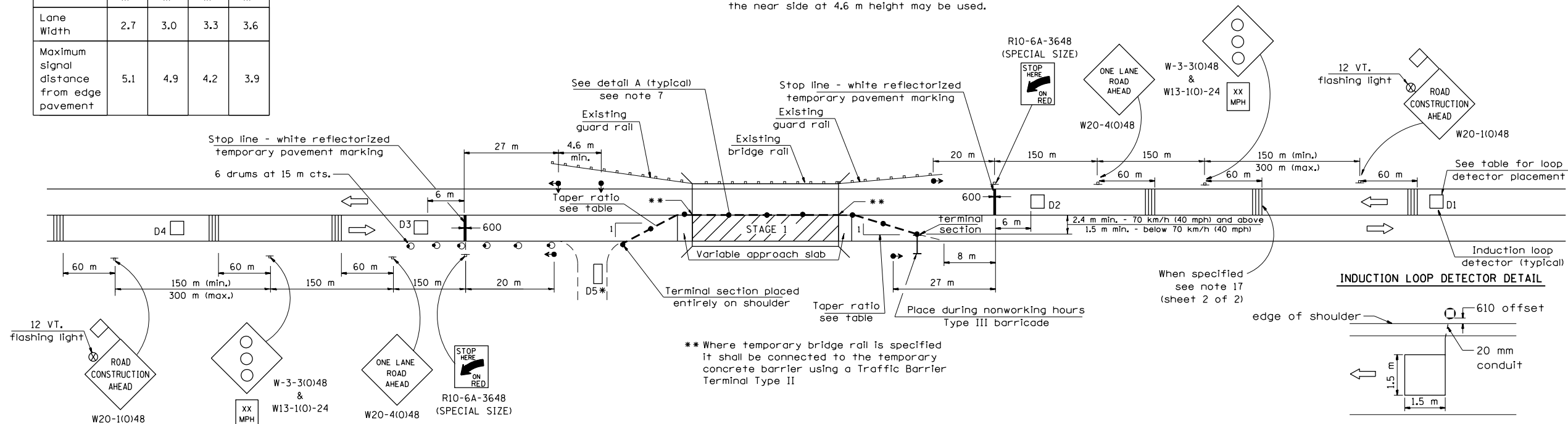
SIGNAL PLACEMENT TABLE				
Lane Width	m	m	m	m
	2.7	3.0	3.3	3.6
Maximum signal distance from edge pavement	5.1	4.9	4.2	3.9

### SPECIAL DETAIL FOR TRAFFIC CONTROL BRIDGE DECK STAGE CONSTRUCTION UTILIZING TRAFFIC ACTUATED SIGNALS AND TEMPORARY BARRIERS TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

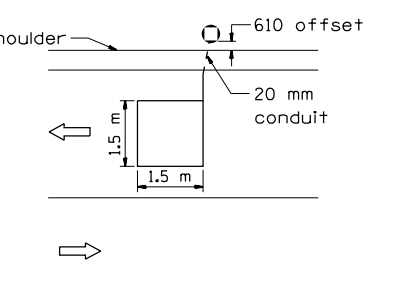
SEQUENCE OF OPERATION										
Movement	Interval	1	2	3	4	5	6	7	8	9
Northbound or eastbound		G	Y	R	R	R	R	R	R	R
Southbound or westbound		R	R	R	G	Y	R	R	R	R
Sideroad		R	R	R	R	R	R	G	Y	R
Detectors		D1	D2		D3	D4			D5 *	

CONCRETE BARRIER WALL TABLE	
Posted speed	Taper rate
40 mph (70 km/h) and above	1:12
Below 40 mph (70 km/h)	1:8

\* In lieu of a 1.8 m x 6 m loop on the sideroad a motion sensor mounted on a wood post on the near side at 4.6 m height may be used.



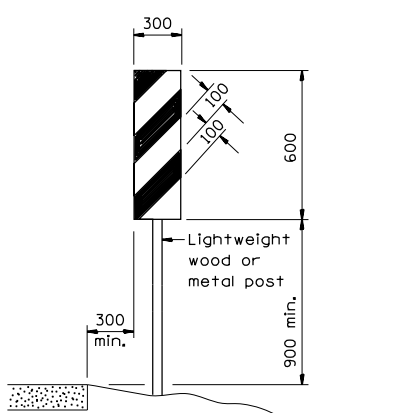
#### INDUCTION LOOP DETECTOR DETAIL



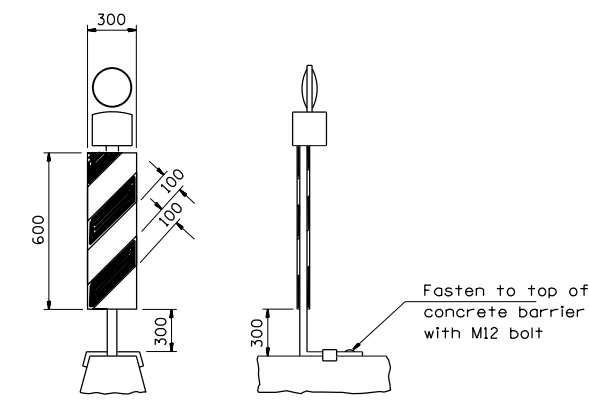
NOTE: Loop centered in approach lane (see table for number of loop turns)

\*\* Where temporary bridge rail is specified it shall be connected to the temporary concrete barrier using a Traffic Barrier Terminal Type II

#### VERTICAL PANELS



DETAIL B  
(See general note no. 7)  
(Sheet 2 of 2)



DETAIL A  
(Suggested mounting detail)

- LEGEND**
- Work area
  - 450 x 450 (minimum) orange flag
  - Sign on permanent support
  - Drum or Type II barricade w/ steady burning light
  - Temporary concrete barrier
  - Steady burning lights and double vertical panels
  - Temporary rumble strip
  - 1.8 m x 1.8 m detector loop centered in lane
  - Traffic signal

All dimensions are in millimeters unless otherwise shown.

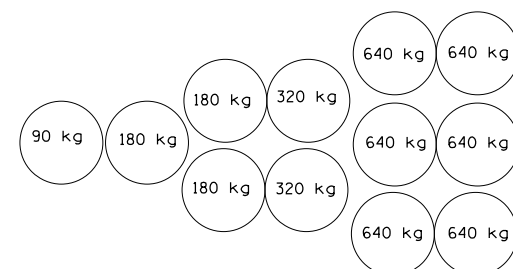
TWO-LANE, TWO WAY TRAFFIC  
ONE LANE CLOSURE ON A BRIDGE  
DECK DAY OR NIGHT OPERATIONS

**SPECIAL DETAIL FOR TRAFFIC CONTROL  
BRIDGE DECK STAGE CONSTRUCTION  
UTILIZING TRAFFIC ACTUATED SIGNALS AND  
TEMPORARY BARRIERS  
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES**

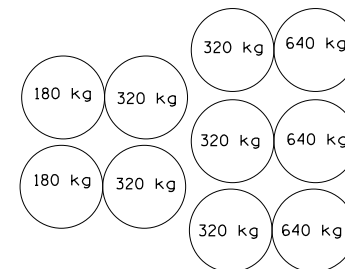
GENERAL NOTES

1. The district traffic department shall be notified at least 72 hours prior to placing the temporary signals in operation so that arrangements can be made to inspect the installation and set the timing of the signals.
2. The signals, controller cabinet and service pole shall be placed behind guardrail (existing or proposed) or shoulder break when applicable. See table on sheet 1 of 2 for maximum signal placement.
3. See tables on sheet 1 of 2 for loop detector locations and number of loop turns.
4. At any time that the signals are not operating the signal heads shall be hooded and the SIGNAL AHEAD sign covered or removed.
5. The left signal shall normally be mounted at a height of 3.0 m above the road surface measured to the bottom of the signal head. The right signal shall normally be mounted at a height of 4.2 m above the road surface and measured to the bottom of the signal head. Backplates will be required on all signals.
6. All lenses shall be 300 mm nominal diameter. The right signal head shall be aimed so the centers of the light beams of the indications are directed toward a point in the center of the approach lane 150 m in advance of the signal. The left indication shall be aimed at a point in the center of the approach lane 30 m in advance of the stop line.
7. ALL STAGES OF CONSTRUCTION  
The edge of existing open traffic lane on each approach to the bridge shall be delineated with double vertical panels (Detail B) and white bi-directional temporary pavement markers. These devices shall be placed at 8 m centers between the stop line and the bridge. Bi-directional steady burning lights attached to double vertical panels (Detail A) shall be placed at 8 m centers on the tapered portion of the concrete barrier and at 15 m centers on the temporary bridge rail or portion of the barrier on the bridge (3 minimum).
8. Double vertical panels (no lights required) shall be placed at 8 m centers on the existing parapet wall or bridge rail (Detail A) adjacent to the open traffic lane. Temporary white bi-directional pavement markers (8 m centers) shall be placed on top of the hubguard when a sidewalk exists within 300 mm of the edge of the existing open traffic lane.
9. All existing pavement markings in the open lane are to be removed from stop line to stop line and shall be paid for as part of STANDARD 701321 (SPECIAL).
10. All signs shall be post mounted if the closure time exceeds four days.
11. Longitudinal dimensions may be adjusted slightly to fit field conditions.
12. All vehicles, equipment, men and their activities are restricted at all times to one side of the pavement unless otherwise authorized by the engineer.
13. Temporary bridge rail shall be used across the bridge when specified in the plans.
14. Advisory speed plates shall be installed where the normal posted speed is greater than 40 MPH (70 km/h). The speed shall be determined at the site by the engineer.
15. District Traffic (Operation and Permit) engineers shall be notified one week prior to a traffic lane width restriction of less than 4.2 m to allow the Department to install width restriction and wide load detour signing.
16. Flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series.
17. When specified, temporary rumble strips shall be installed where shown. (STANDARD 702001)
18. On both approaches, existing center line pavement markings located between the stop bars and the temporary concrete barrier or bridge rail shall be removed as soon as the barrier or rails is in place and replaced with temporary or permanent pavement marking as soon as the barrier or rail is removed.
19. See SPECIAL PROVISIONS for the traffic signal controller and detector loop requirements.
20. Form BT 725 is required.

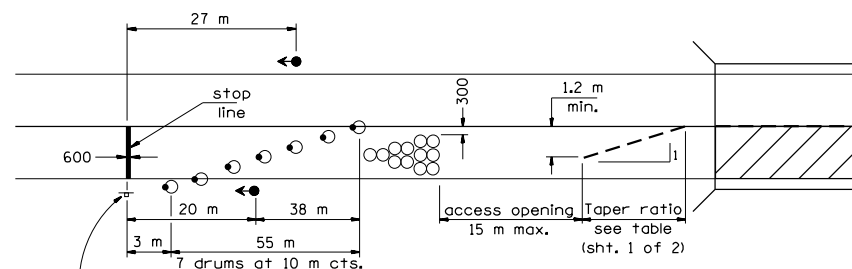
SAND MODULE IMPACT ATTENUATOR CONFIGURATION



POSTED SPEED 40 mph (70 km/h) OR MORE



POSTED SPEED LESS THAN 40 mph (70 km/h)



NOTES

1. The contractor may use this detail where greater access to the work area is required. No additional compensation will be allowed if the contractor elects to use this detail.
2. The sand modules may be placed directly on the pavement or on pallets or skids (maximum height 60 mm).
3. The impact attenuators shall be striped in conformance with the requirements for drums in STANDARD 702001 and shall meet the requirements of the RECURRING SPECIAL PROVISIONS for sand module impact attenuators.
4. Barricades or drums with bi-directional steady burning lights delineating the closed lane shall be placed in the access opening during nonworking hours (3 minimum).

All dimensions are in millimeters unless otherwise shown.

TWO-LANE, TWO WAY TRAFFIC  
ONE LANE CLOSURE ON A BRIDGE  
DECK DAY OR NIGHT OPERATIONS

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - VTY 11-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL &amp; PROTECTION STANDARD 701321 (SPECIAL) WITH SIDE ROAD</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
2409S.DGN	PLT SCALE = 40.000' / in.	CHECKED -	REVISED -			CONTRACT NO.					
PLT DATE = 5/10/2016	DATE = 5/03/96	REVISED -	SCALE:			SHEET	OF	SHEETS	STA.	TO	STA.

INDUCTIVE VEHICLE DETECTION LOOP TABLE			
Posted advisory speed limit ( MPH )	D1 and D4 Dist. from stop bar to loop detector location	Distance from controller to loop	Number of loop turns
30	67 m	0 m to 173 m	4
35	79 m	173 m to 265 m	5
40	91 m	265 m to 378 m	6
45	100 m	378 m (Maximum)	6
50	114 m		
55	128 m		

NOTE: D2 and D3 shall call on red interval only

SIGNAL PLACEMENT TABLE				
Lane Width	2.7	3.0	3.3	3.6
Maximum signal distance from edge pavement	5.1	4.9	4.2	3.9

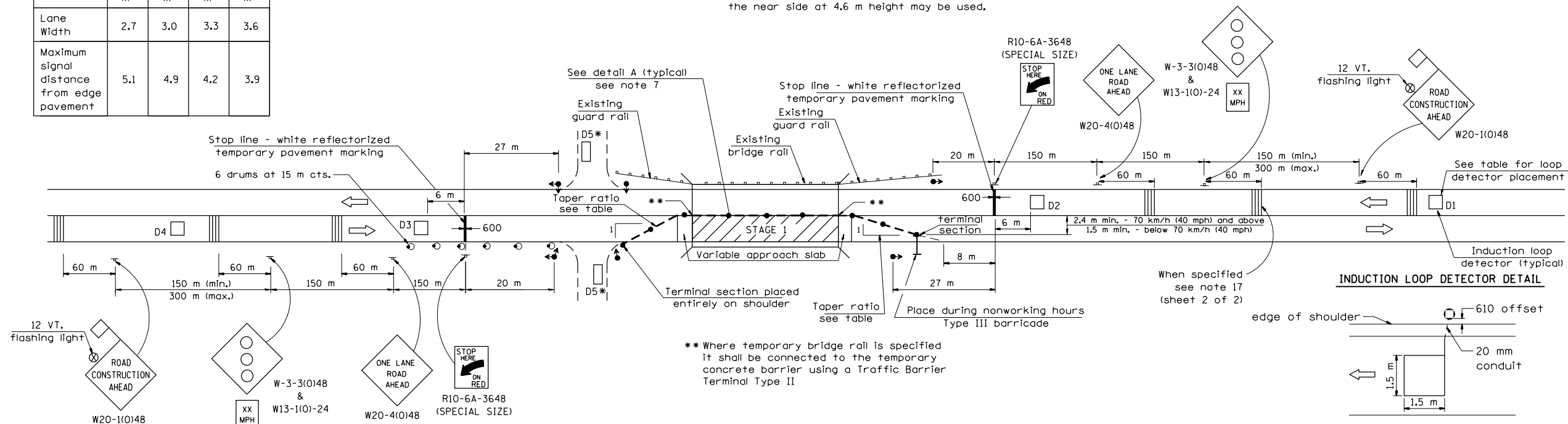
### SPECIAL DETAIL FOR TRAFFIC CONTROL BRIDGE DECK STAGE CONSTRUCTION UTILIZING TRAFFIC ACTUATED SIGNALS AND TEMPORARY BARRIERS

#### TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

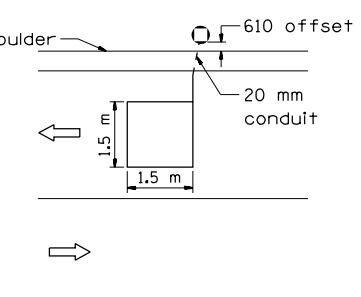
Movement	SEQUENCE OF OPERATION									
	Interval	1	2	3	4	5	6	7	8	9
Northbound or eastbound	G	Y	R	R	R	R	R	R	R	R
Southbound or westbound	R	R	R	G	Y	R	R	R	R	R
Sideroad	R	R	R	R	R	R	G	Y	R	R
Detectors	D1	D2	D3	D4	D5 *					

CONCRETE BARRIER WALL TABLE	
Posted speed	Taper rate
40 mph (70 km/h) and above	1:12
Below 40 mph (70 km/h)	1:8

\* In lieu of a 1.8 m x 6 m loop on the sideroad a motion sensor mounted on a wood post on the near side at 4.6 m height may be used.

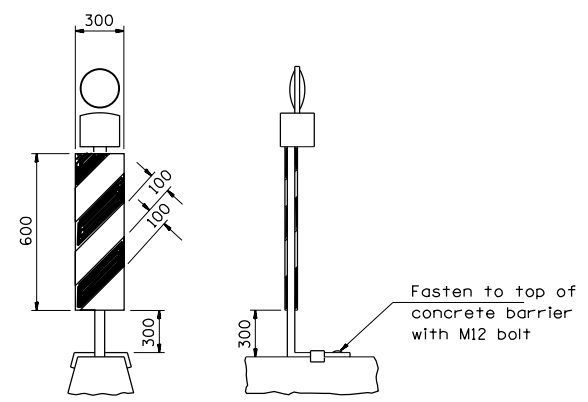


#### INDUCTION LOOP DETECTOR DETAIL

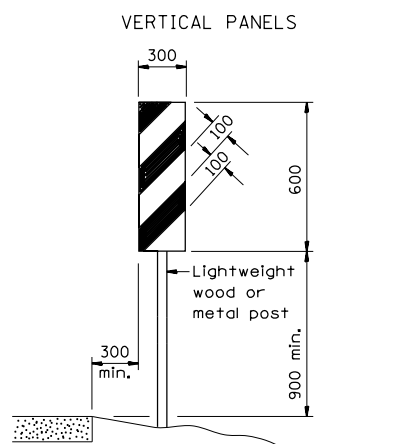


NOTE: Loop centered in approach lane (see table for number of loop turns)

\*\* Where temporary bridge rail is specified it shall be connected to the temporary concrete barrier using a Traffic Barrier Terminal Type II



DETAIL A (Suggested mounting detail)



DETAIL B (See general note no. 7) (Sheet 2 of 2)

- LEGEND**
- Work area
  - 450 x 450 (minimum) orange flag
  - Sign on permanent support
  - Drum or Type II barricade w/ steady burning light
  - Temporary concrete barrier
  - Steady burning lights and double vertical panels
  - Temporary rumble strip
  - 1.8 m x 1.8 m detector loop centered in lane
  - Traffic signal

All dimensions are in millimeters unless otherwise shown.

TWO-LANE, TWO WAY TRAFFIC ONE LANE CLOSURE ON A BRIDGE DECK DAY OR NIGHT OPERATIONS

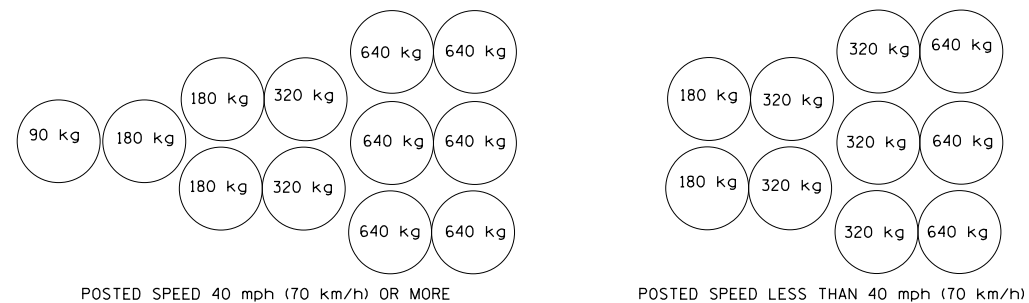


SPECIAL DETAIL FOR TRAFFIC CONTROL  
BRIDGE DECK STAGE CONSTRUCTION  
UTILIZING TRAFFIC ACTUATED SIGNALS AND  
TEMPORARY BARRIERS  
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

GENERAL NOTES

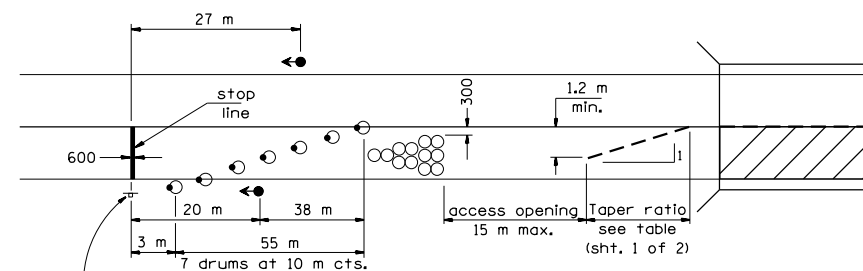
1. The district traffic department shall be notified at least 72 hours prior to placing the temporary signals in operation so that arrangements can be made to inspect the installation and set the timing of the signals.
2. The signals, controller cabinet and service pole shall be placed behind guardrail (existing or proposed) or shoulder break when applicable. See table on sheet 1 of 2 for maximum signal placement.
3. See tables on sheet 1 of 2 for loop detector locations and number of loop turns.
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5. The left signal shall normally be mounted at a height of 3.0 m above the road surface measured to the bottom of the signal head. The right signal shall normally be mounted at a height of 4.2 m above the road surface and measured to the bottom of the signal head. Backplates will be required on all signals.
6. All lenses shall be 300 mm nominal diameter. The right signal head shall be aimed so the centers of the light beams of the indications are directed toward a point in the center of the approach lane 150 m in advance of the signal. The left indication shall be aimed at a point in the center of the approach lane 30 m in advance of the stop line.
7. ALL STAGES OF CONSTRUCTION  
The edge of existing open traffic lane on each approach to the bridge shall be delineated with double vertical panels (Detail B) and white bi-directional temporary pavement markers. These devices shall be placed at 8 m centers between the stop line and the bridge. Bi-directional steady burning lights attached to double vertical panels (Detail A) shall be placed at 8 m centers on the tapered portion of the concrete barrier and at 15 m centers on the temporary bridge rail or portion of the barrier on the bridge (3 minimum).
8. Double vertical panels (no lights required) shall be placed at 8 m centers on the existing parapet wall or bridge rail (Detail A) adjacent to the open traffic lane. Temporary white bi-directional pavement markers (8 m centers) shall be placed on top of the hubguard when a sidewalk exists within 300 mm of the edge of the existing open traffic lane.
9. All existing pavement markings in the open lane are to be removed from stop line to stop line and shall be paid for as part of STANDARD 701321 (SPECIAL).
10. All signs shall be post mounted if the closure time exceeds four days.
11. Longitudinal dimensions may be adjusted slightly to fit field conditions.
12. All vehicles, equipment, men and their activities are restricted at all times to one side of the pavement unless otherwise authorized by the engineer.
13. Temporary bridge rail shall be used across the bridge when specified in the plans.
14. Advisory speed plates shall be installed where the normal posted speed is greater than 40 MPH (70 km/h). The speed shall be determined at the site by the engineer.
15. District Traffic (Operation and Permit) engineers shall be notified one week prior to a traffic lane width restriction of less than 4.2 m to allow the Department to install width restriction and wide load detour signing.
16. Flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series.
17. When specified, temporary rumble strips shall be installed where shown. (STANDARD 702001)
18. On both approaches, existing center line pavement markings located between the stop bars and the temporary concrete barrier or bridge rail shall be removed as soon as the barrier or rails is in place and replaced with temporary or permanent pavement marking as soon as the barrier or rail is removed.
19. See SPECIAL PROVISIONS for the traffic signal controller and detector loop requirements.
20. Form BT 725 is required.

SAND MODULE IMPACT ATTENUATOR CONFIGURATION



POSTED SPEED 40 mph (70 km/h) OR MORE

POSTED SPEED LESS THAN 40 mph (70 km/h)



NOTES

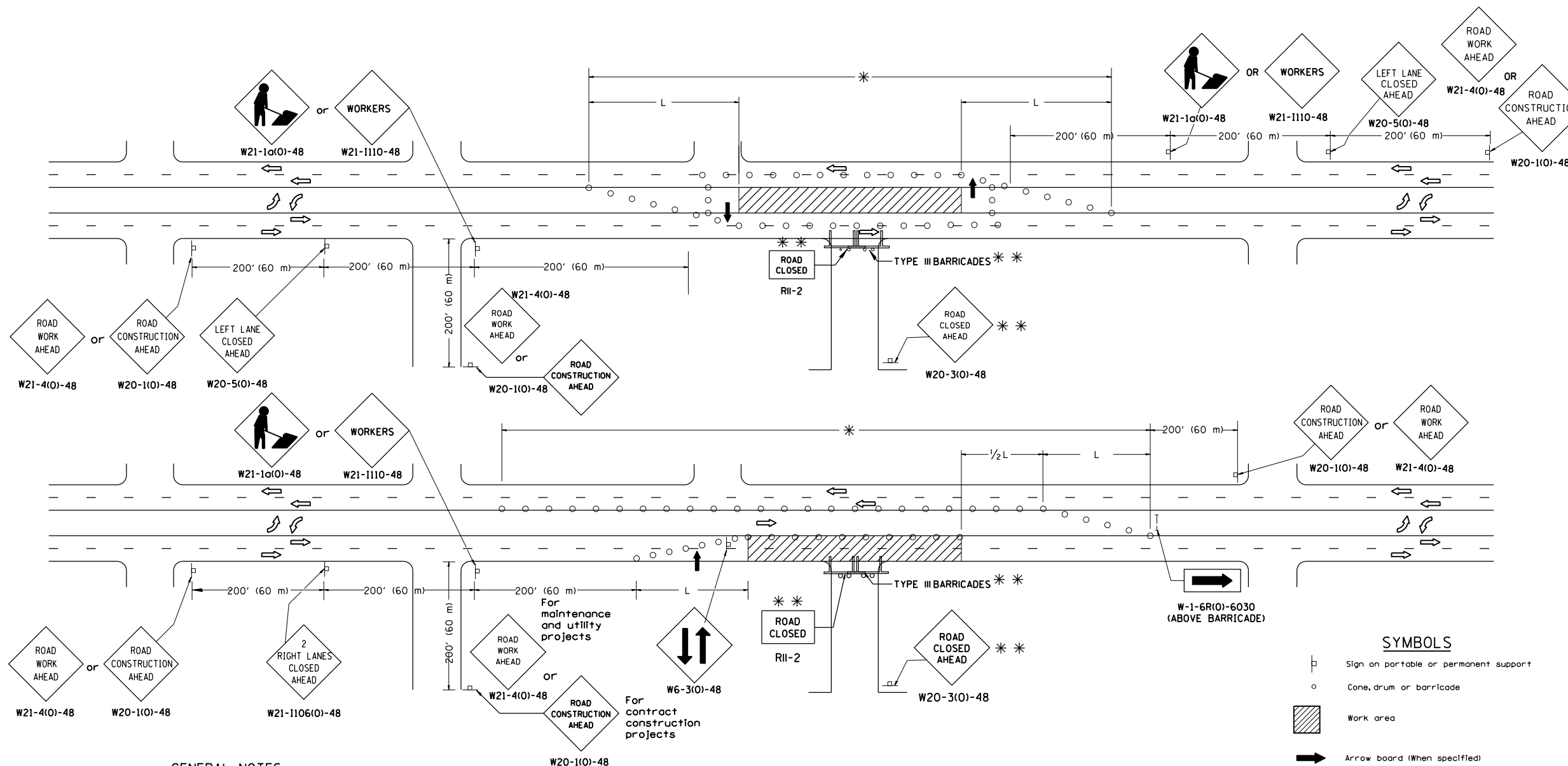
1. The contractor may use this detail where greater access to the work area is required. No additional compensation will be allowed if the contractor elects to use this detail.
2. The sand modules may be placed directly on the pavement or on pallets or skids (maximum height 60 mm).
3. The impact attenuators shall be striped in conformance with the requirements for drums in STANDARD 2298 and shall meet the requirements of the RECURRING SPECIAL PROVISIONS for sand module impact attenuators.
4. Barricades or drums with bi-directional steady burning lights delineating the closed lane shall be placed in the access opening during nonworking hours (3 minimum).

All dimensions are in millimeters unless otherwise shown.

TWO-LANE, TWO WAY TRAFFIC  
ONE LANE CLOSURE ON A BRIDGE  
DECK DAY OR NIGHT OPERATIONS

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - VTY 11-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL &amp; PROTECTION STANDARD 701321 (SPECIAL) WITH CROSS ROAD</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
2409S.DGN	PLT SCALE = 40.000' / in.	CHECKED -	REVISED -			CONTRACT NO.					
	PLT DATE = 5/10/2016	DATE - 5/03/96	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET	OF	SHEETS	STA.	TO





**GENERAL NOTES**

\* Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.

\*\* For approved sideroad closures.

Where, at anytime, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an area where the posted speed limit is 40 mph (70km/h) or less.

The L distance shall be defined as:

METRIC      ENGLISH  
 $L = WS^2/150$        $L = WS^2/60$

Where: W = Width of closure in meters(feet).

S = Normal posted speed limit in km/h(mph).

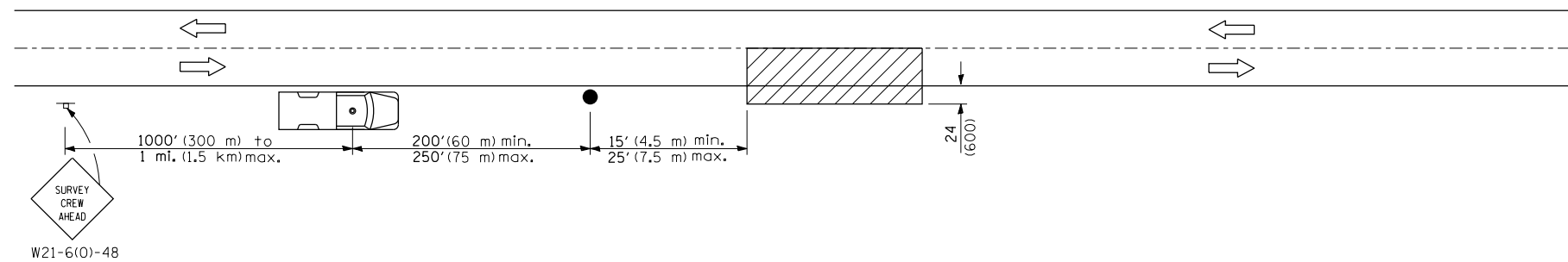
**SYMBOLS**

- Sign on portable or permanent support
- Cone, drum or barricade
- Work area
- Arrow board (When specified)
- 450x450(18x18) (Minimum) orange flag
- Drum or barricade with flashing light
- Type III Barricade with flashing lights

All dimensions are in inches (millimeters) unless otherwise noted.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STANDARD 701606 (SPECIAL) URBAN LANE CLOSURE MULTILANE, 2-WAY WITH BIDIRECTIONAL LEFT TURN LANE FOR SPEEDS &lt; 45 MPH</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\700\701606s.dgn	PLOT SCALE = 48.000' / in.	CHECKED -	REVISED -			CONTRACT NO.						
Default 701606S.DGN	PLOT DATE = 5/10/2016	DATE - DECEMBER 7, 1999	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
						ILLINOIS FED. AID PROJECT						





FLAGGER SHALL BE EQUIPPED WITH AND REQUIRED TO USE A HIGH INTENSITY, OR HIGH PERFORMANCE " STOP - SLOW " TRAFFIC CONTROL PADDLE. FLAGGER AND LIGHTING INSPECTOR SHALL BE REQUIRED TO WEAR A HIGH VISIBILITY, REFLECTIVE ORANGE VEST AND EITHER A HARD HAT OR AN ORANGE CAP.

SYMBOLS



Work area



Sign on portable or permanent support



Truck with flashing amber light and dual emergency flashers



Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = JLGT017.DGN	USER NAME = Verenskif	DESIGNED -	REVISED - JLP 26OCT93
pw:\IL\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard Details\700-0A0017.dgn		DRAWN -	REVISED - CO 8MAR96
		CHECKED -	REVISED -
		DATE - 8/28/93	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NIGHT TIME LIGHTING INSPECTION  
LESS THAN 15 MINUTES PER LUMINAIRE

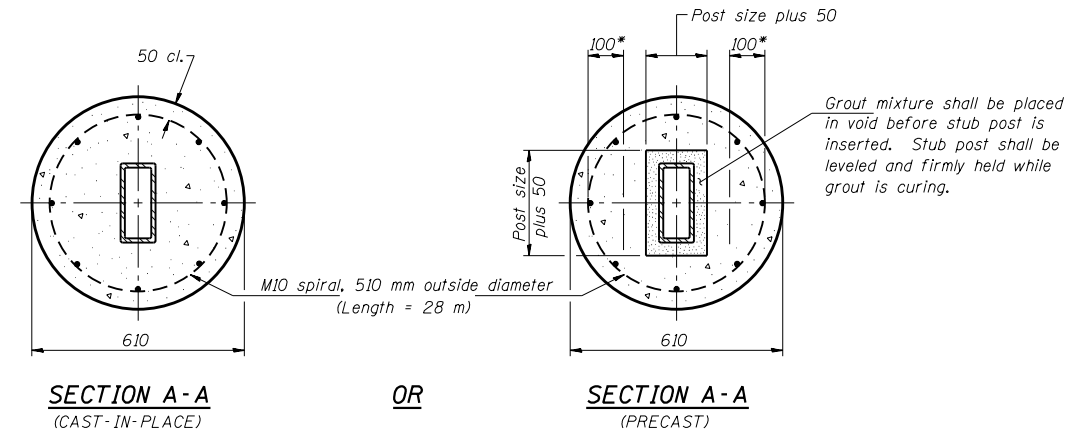
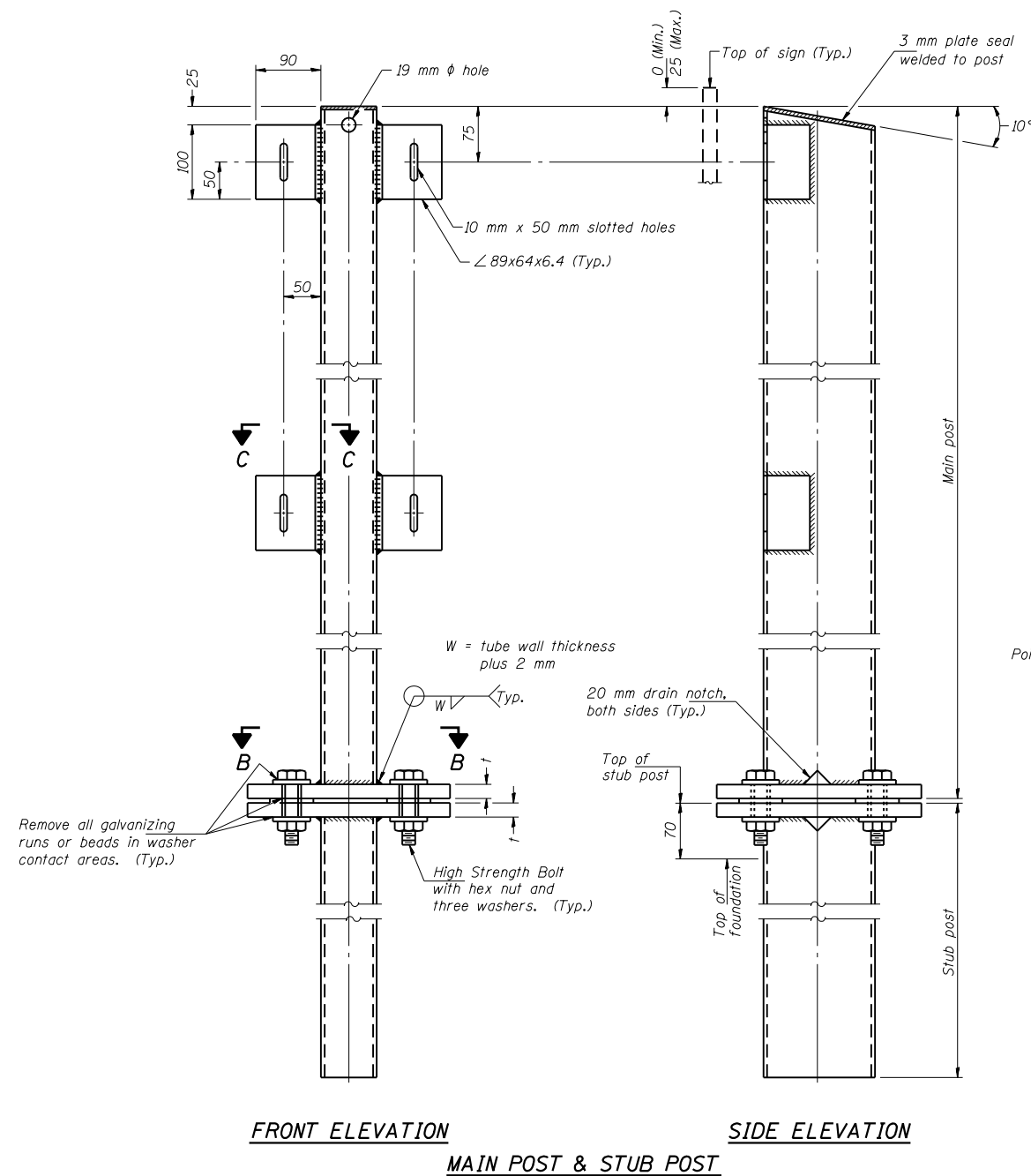
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				

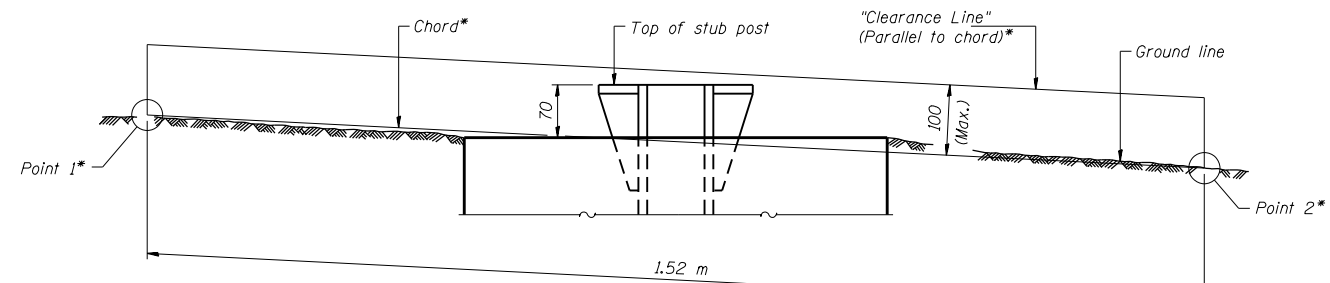




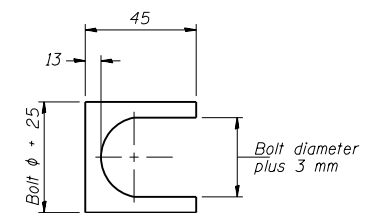
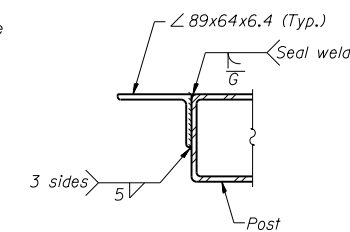
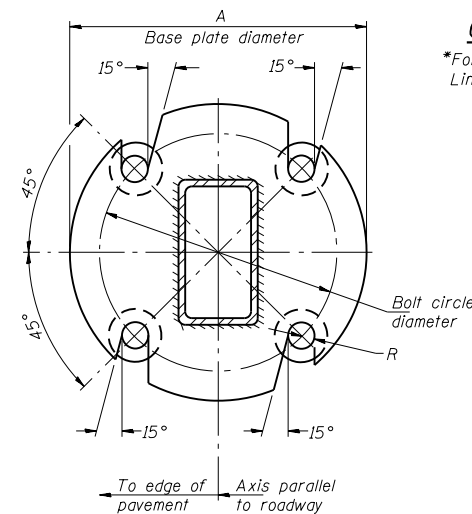
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



\*Hot dip galvanized lifting loops or inserts may be placed in precast foundation inside the spiral reinforcement but not within 150 mm of the long axis of the post. Inserts must be adequate for safely lifting a total of 1360 kg and must not interfere with installation of the stub post or proper functioning of the slip base.



\*For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.



Furnish two 0.3 mm thick and two 0.8 mm thick stainless steel shims per post.

DESIGNED	
CHECKED	AMC
DRAWN	
CHECKED	

BAT-A-2(M) 1/1/97

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\11\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Structure\Details\720-breaksgn.dgn		DRAWN -	REVISED -
Default: BREAKSGN.DGN		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

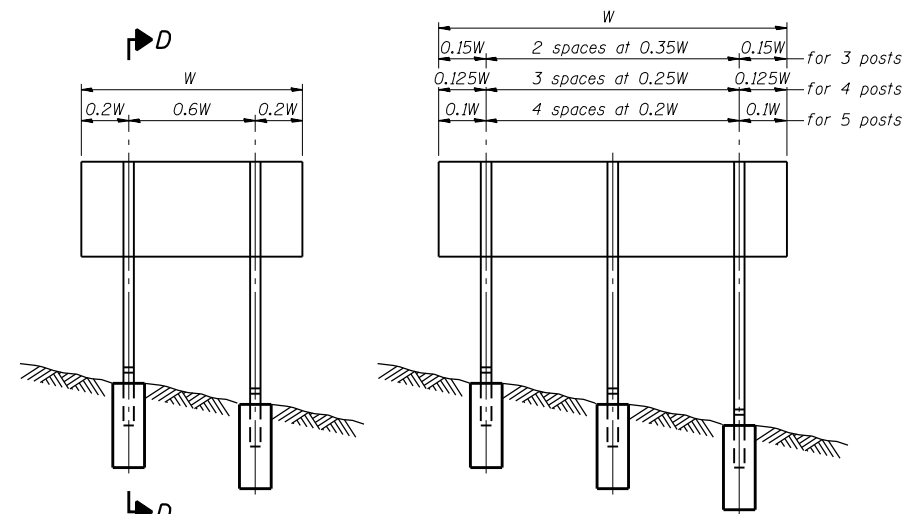
BREAK-AWAY TUBULAR STEEL  
SIGN POSTS AND DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

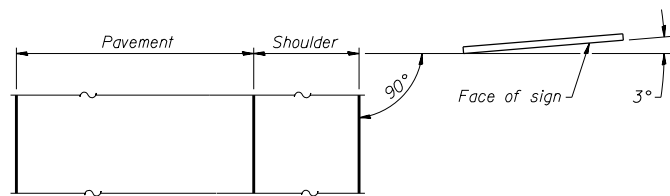
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



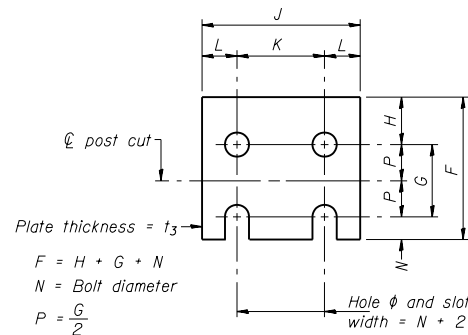
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ELEVATION

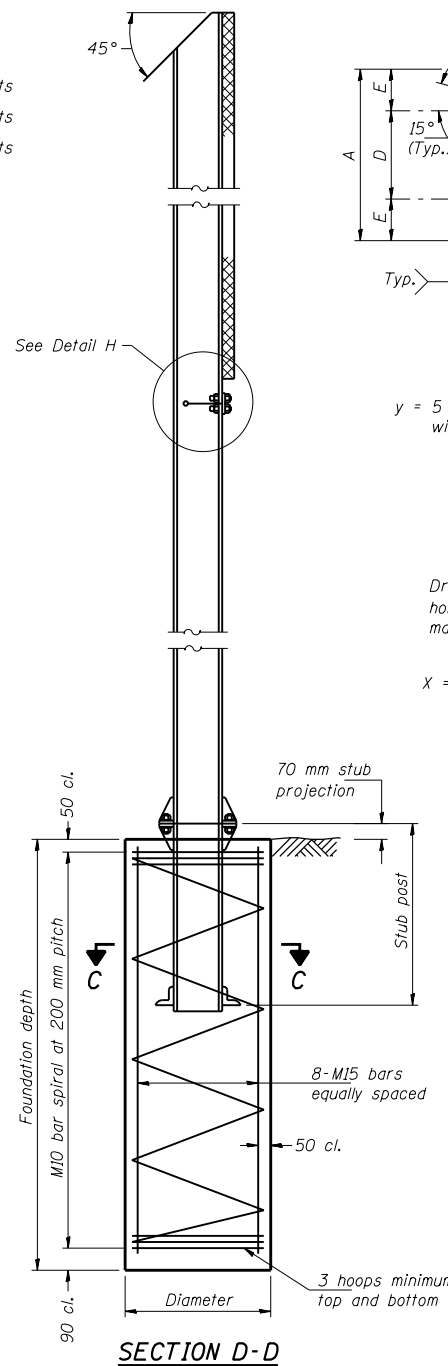


LOCATION SKETCH

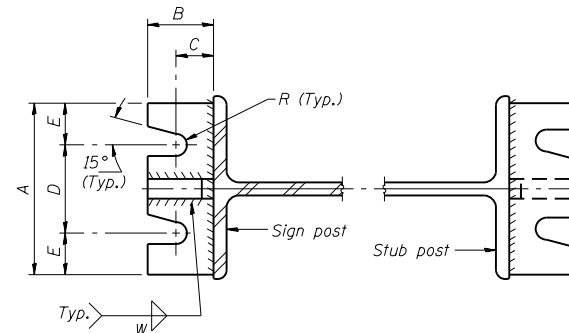


FUSE PLATE DETAIL  
(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
M12	50	30
M16	60	30
M20	65	35
M22	70	40
M24	75	40
M27	85	45

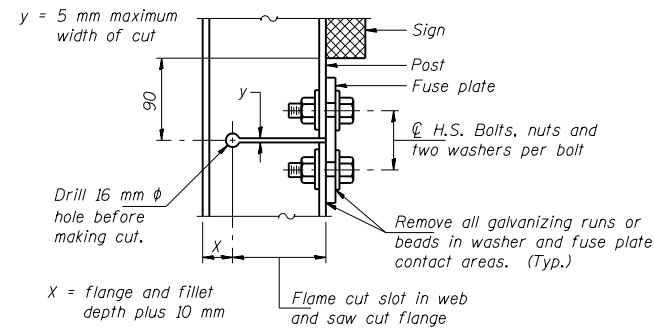


SECTION D-D

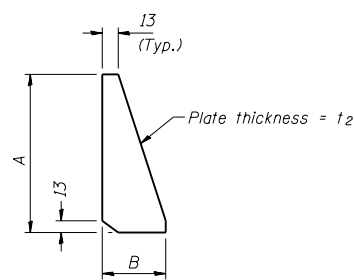


SECTION A-A

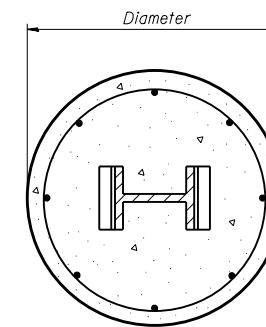
SECTION B-B



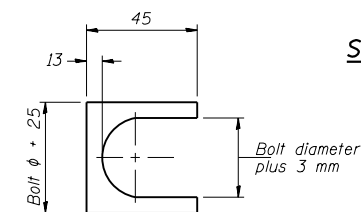
DETAIL H



STIFFENER PLATE DETAIL  
(See table for dimensions.)

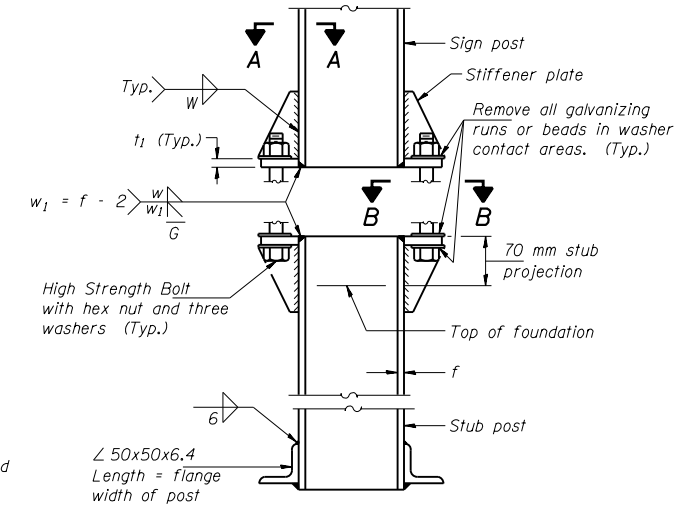


SECTION C-C



SHIM DETAIL

Furnish two 0.3 mm thick and two 0.8 mm thick stainless steel shims per post.



ELEVATION  
SIGN POST & STUB POST

GENERAL NOTES

MEASUREMENTS: All dimensions are in millimeters (mm) except as noted.

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(f)(3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 130 km/h wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 138 MPa  
Reinforcing steel - 138 MPa  
Concrete - 10 MPa  
Footing soil pressure - 95 kPa

After fabrication, the post, fuse plate, base plate and upper 150 mm (Minimum) of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2(M).

DESIGNED	
CHECKED	AMC
DRAWN	
CHECKED	

BAW-A-1(M) 1/1/97

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

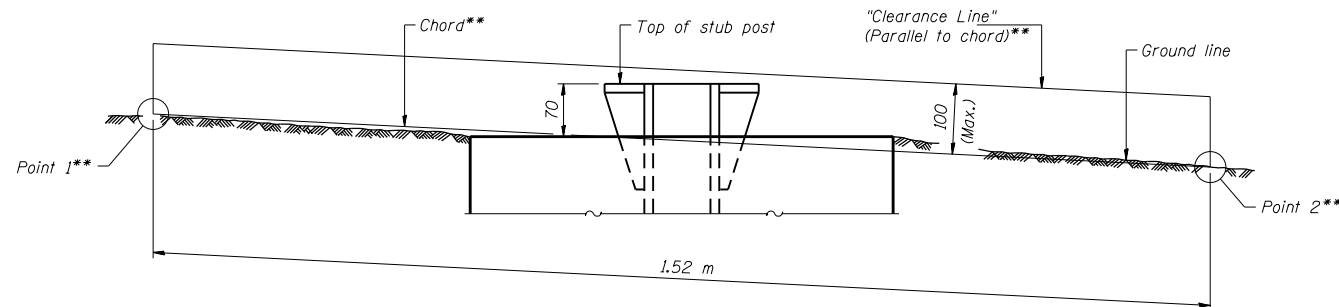
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA					
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>
	Diameter	*Minimum Depth (m)	Concrete (m <sup>3</sup> ) ①	Vertical Bars Length (m)	Bar Spirals Diameter	Bar Spirals Length (m)	kg ②															
W150x14	610	1.8	0.53	1.72	520	24.1	41	690	M16x85	150	57	32	90	30	20	14	9	6	100	56	22	6
W150x22	610	1.8	0.53	1.72	520	24.1	41	760	M16x85	150	57	32	90	30	20	14	9	6	150	90	30	10
W200x27	610	1.8	0.53	1.72	520	24.1	41	760	M20x95	150	64	35	82	34	25	14	10	8	130	70	30	10
W250x33	760	2.0	0.91	1.92	675	32.0	49	910	M20x95	150	64	35	82	34	25	14	10	8	145	70	38	14
W250x39	760	2.1	0.95	2.02	675	34.1	52	910	M22x105	180	70	38	102	39	25	20	12	10	145	70	38	16
W310x39	760	2.4	1.09	2.32	675	36.3	58	910	M22x105	180	70	38	102	39	25	20	12	10	165	90	38	16
W360x45	910	2.2	1.43	2.12	825	44.2	61	910	M22x105	180	70	38	102	39	25	20	12	10	170	90	40	14
W360x57	910	2.4	1.56	2.32	825	46.6	66	1.07 m	M24x115	190	76	44	102	44	32	20	13	10	170	90	40	14
W410x67	910	2.6	1.69	2.52	825	49.4	70	1.07 m	M24x115	190	76	44	102	44	32	20	13	10	180	90	45	14

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE													
	Sign Depth (m)													
	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	
W150x14	M12x40	M12x40	M12x40	M16x45	M16x45	M16x45	---	---	---	---	---	---	---	
W150x22	M12x45	M12x45	M16x50	M16x50	M20x50	M20x50	M20x50	M20x50	M22x50	M22x50	---	---	---	
W200x27	M12x45	M12x45	M12x45	M16x50	M16x50	M20x50	M20x50	M22x60	M22x60	M22x60	M22x60	M22x60	M22x60	
W250x33	M12x50	M12x50	M12x50	M16x50	M16x50	M20x60	M20x60	M22x60	M22x60	M22x65	M24x65	M24x70	M24x70	
W250x39	M12x50	M12x50	M12x50	M16x60	M16x60	M20x65	M20x65	M22x65	M22x65	M24x70	M24x70	M24x70	M27x80	
W310x39	---	---	---	---	---	M16x60	---	---	M22x65	M22x65	M24x70	M24x70	M24x70	
W360x45	M12x50	M12x50	M12x50	M12x50	M12x50	M16x50	M20x60	M20x60	M20x60	M22x65	M24x65	M24x70	M24x70	
W360x57	---	M12x50	M12x50	M12x50	M12x50	M16x60	M20x60	M20x65	M20x65	M22x65	M22x65	M24x65	M24x70	
W410x67	---	---	---	M12x50	M12x50	M16x60	M16x60	M20x60	M20x65	M20x65	M22x65	M22x65	M24x70	



ELEVATION  
GROUND LINE & STUB POST

\*\*For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

DESIGNED	
CHECKED	
DRAWN	AMC
CHECKED	

EXAMINED	20
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

BAW-A-2(M) 1/1/97



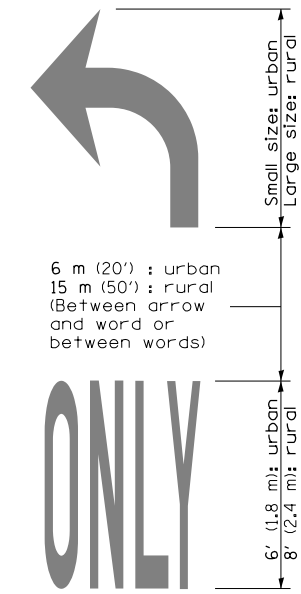
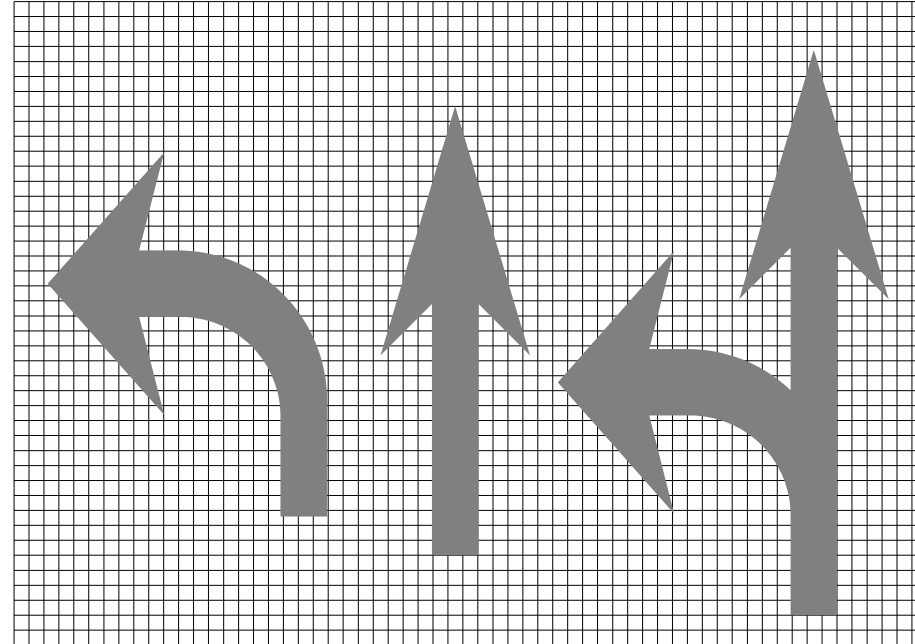
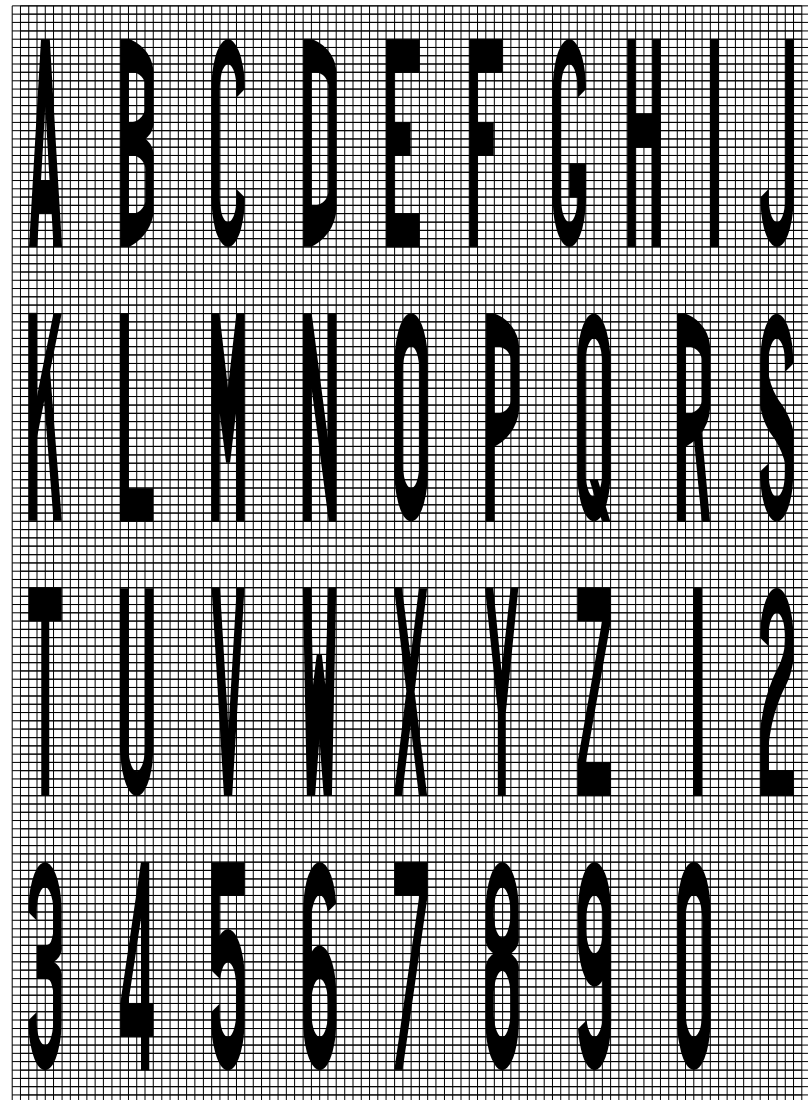
CELL LIBRARY: GUIDE4.CEL

CELL: NOMOW

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 6\Standards\Standard\Drawings\720-nomowsign.dgn		DRAWN -	REVISED -										CONTRACT NO.				
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -										ILLINOIS FED. AID PROJECT				
	PLOT DATE = 5/10/2016	DATE -	REVISED -														







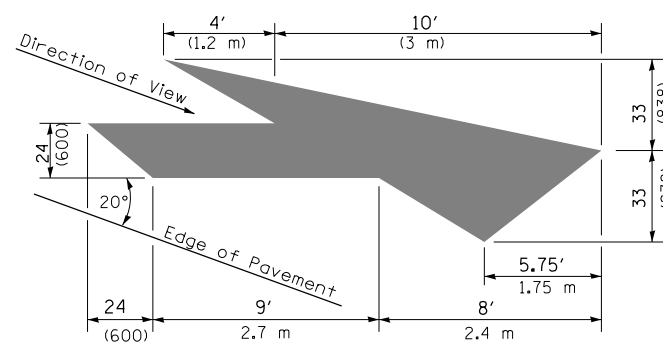
WORD AND ARROW LAYOUT

a		
	a	

Legend Height	Arrow Size	a
1.8 m (6')	Small	74 (2.9)
2.4 m (8')	Large	96 (3.8)

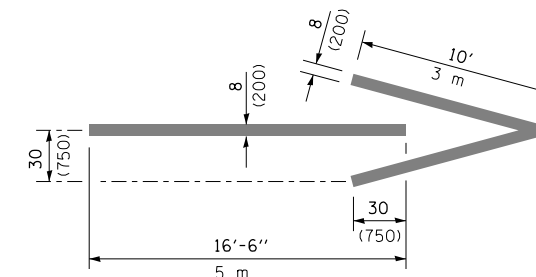
The space between adjacent letters or numerals should be approximately 75 (3) for 1.8 m (6') legend and 100 (4') for 2.4 m (8') legend.

LETTER AND ARROW GRID SCALE



LANE DROP ARROW

Right lane drop arrow shown.  
Use mirror image for left lane.



WRONG WAY ARROW

All dimensions are in inches (millimeters) unless otherwise shown.

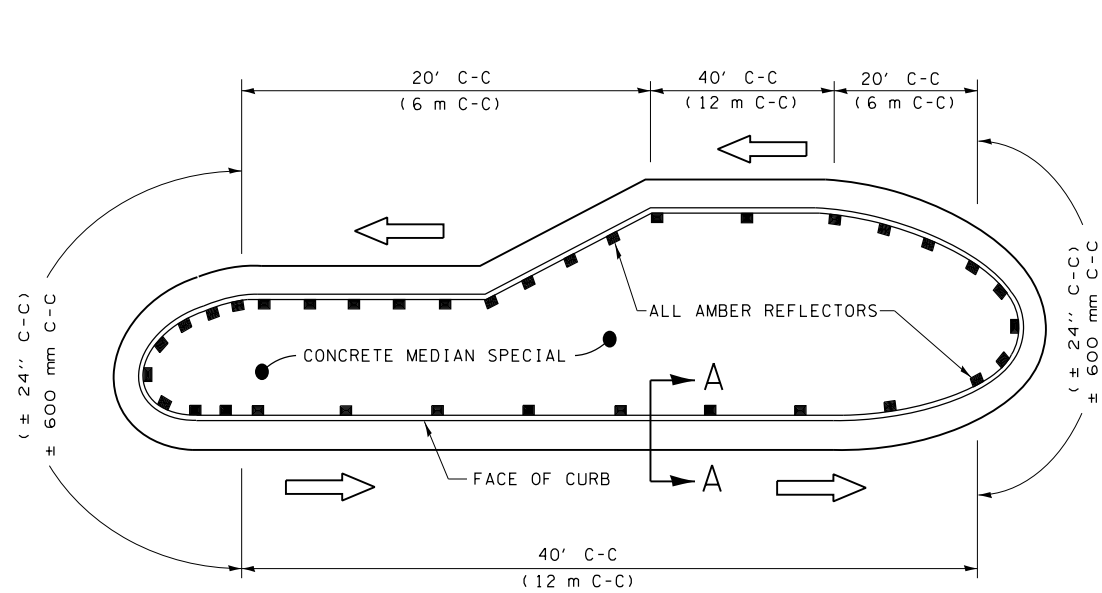
FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -
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Default 780001A.DGN	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
	PLOT DATE = 5/10/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

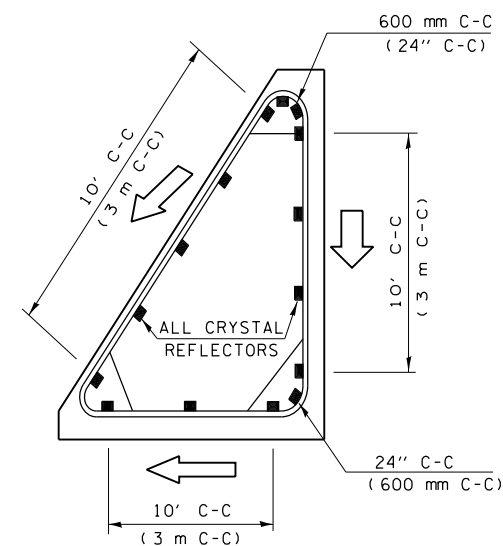
TYPICAL PAVEMENT  
MARKINGS

SCALE: SHEET OF SHEETS STA. TO STA.

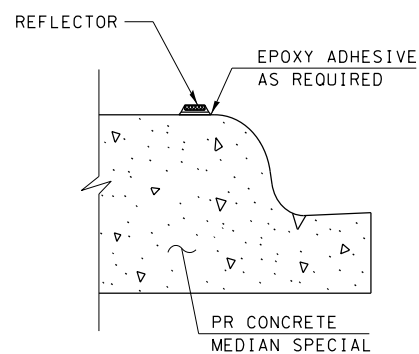
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



TYPICAL PLACEMENT OF PRISMATIC REFLECTORS ON RAISED MEDIAN



TYPICAL PLACEMENT OF PRISMATIC REFLECTORS ON CURBED CORNER ISLAND



SECTION A-A

GENERAL NOTES

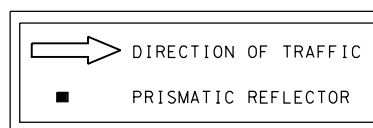
PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL UNITS AND THE REFLECTOR FACE SHALL BE POSITIONED TO FACE THE APPROACHING TRAFFIC.

PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.

PRISMATIC REFLECTOR FACE SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.

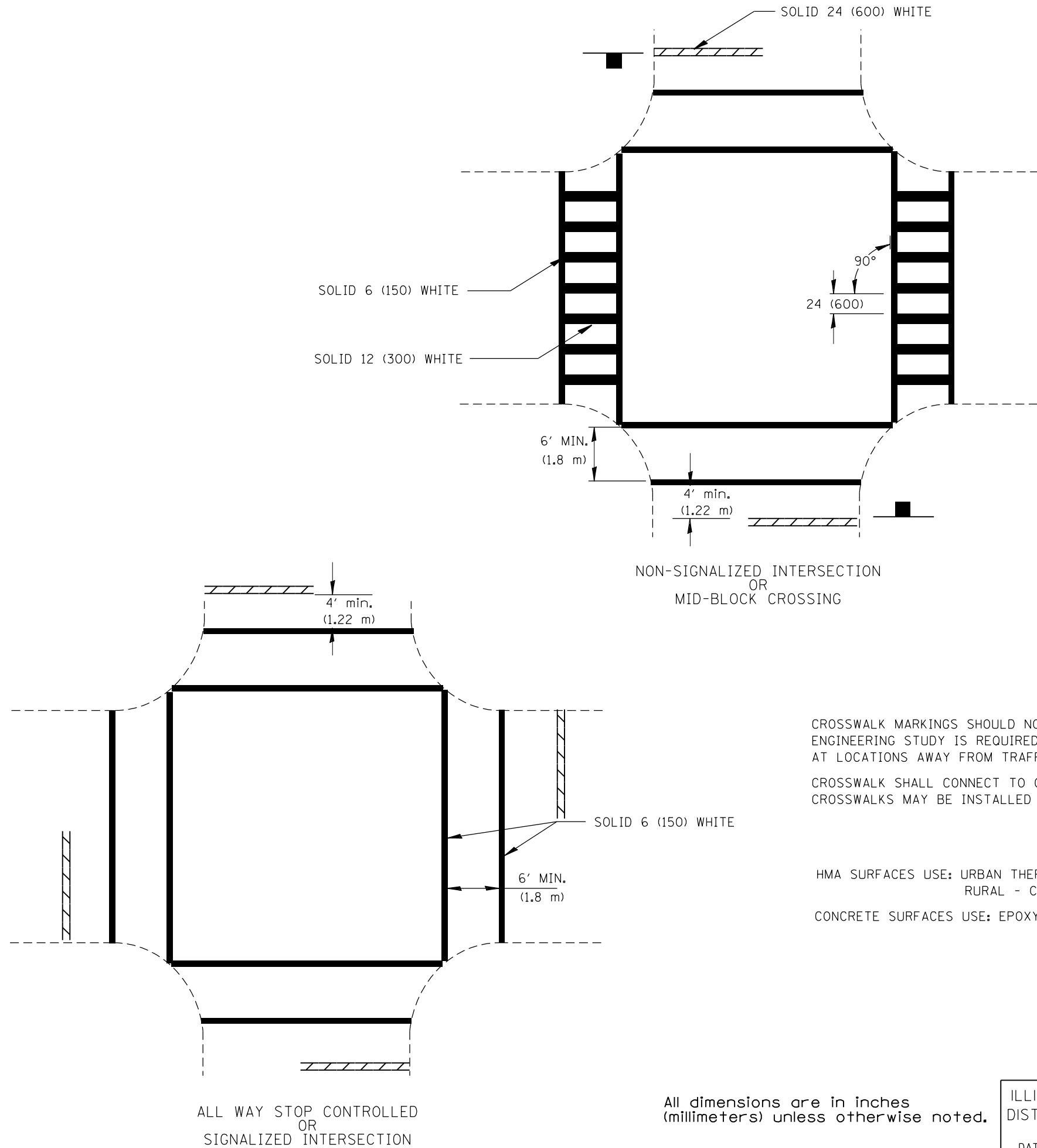
REFER TO SCHEDULES FOR PRISMATIC REFLECTOR QUANTITIES.

LEGEND



NOT TO SCALE

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED - 10/20/00	MWG	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PRISMATIC REFLECTOR DETAILS (PLACED ON CURB)</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default 782001A.DGN	PLOT SCALE = 40.0000' / in.	CHECKED - CMS	REVISED -						CONTRACT NO.					
	PLOT DATE = 5/10/2016	DATE - MARCH 2, 1999	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



NON-SIGNALIZED INTERSECTION  
OR  
MID-BLOCK CROSSING

ALL WAY STOP CONTROLLED  
OR  
SIGNALIZED INTERSECTION

CROSSWALK MARKINGS SHOULD NOT BE USED INDISCRIMINATELY. AN ENGINEERING STUDY IS REQUIRED BEFORE THEY ARE INSTALLED AT LOCATIONS AWAY FROM TRAFFIC SIGNALS OR STOP SIGNS.  
CROSSWALK SHALL CONNECT TO CURB CUTS OR SIDEWALKS. CROSSWALKS MAY BE INSTALLED AT A SKEW TO PERMIT THIS CONNECTION.

HMA SURFACES USE: URBAN THERMOPLASTIC  
RURAL - CALL OPERATIONS  
CONCRETE SURFACES USE: EPOXY

CROSSWALKS

All dimensions are in inches (millimeters) unless otherwise noted.

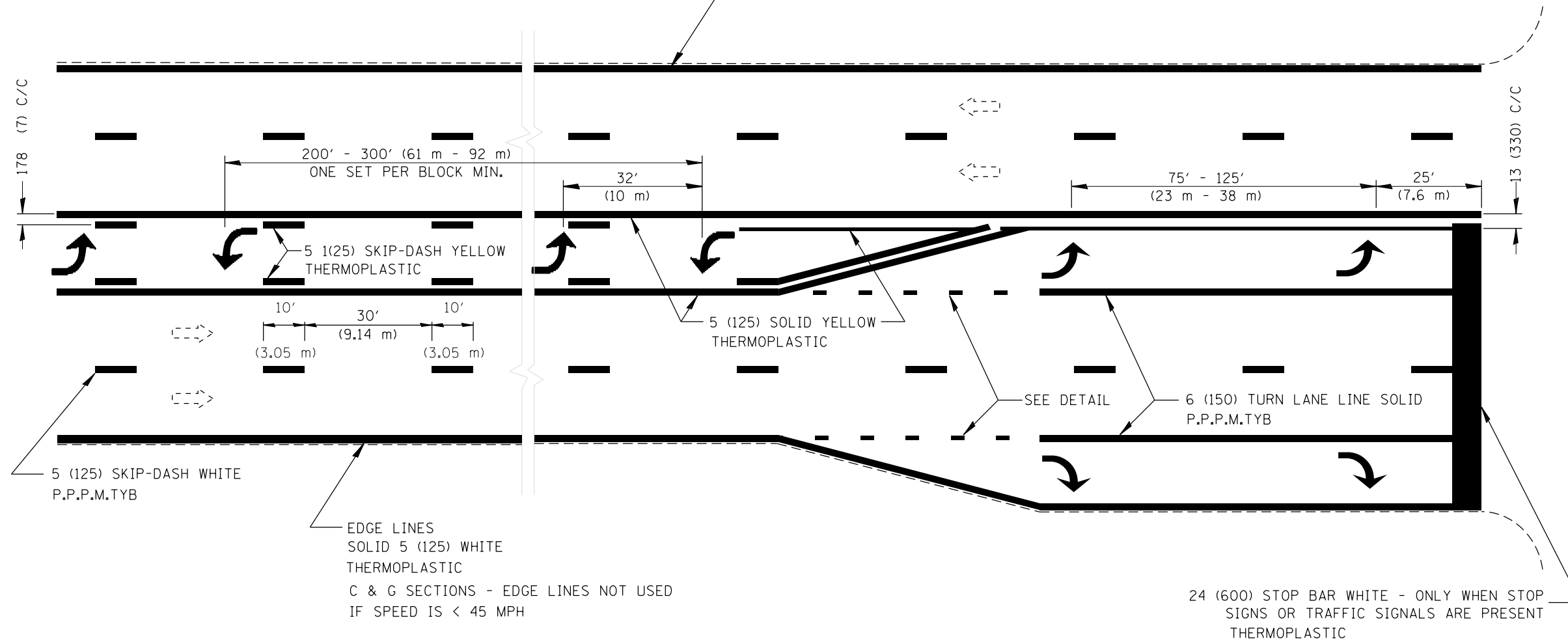
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 6 PAVEMENT MARKING STANDARDS	
DATE 2016-05	NOT TO SCALE



MARKING TYPES ARE FOR HMA  
(FOR PCC, SEE GUIDELINES)

6" 2' 6" 2' 6" 2' 6" 2' 6" 2'  
DETAIL  
THERMOPLASTIC

EDGE LINES  
SOLID 5 (125) WHITE  
THERMOPLASTIC  
C & G SECTIONS - EDGE LINES NOT USED  
IF SPEED IS < 45 MPH



EDGE LINES  
SOLID 5 (125) WHITE  
THERMOPLASTIC  
C & G SECTIONS - EDGE LINES NOT USED  
IF SPEED IS < 45 MPH

24 (600) STOP BAR WHITE - ONLY WHEN STOP  
SIGNS OR TRAFFIC SIGNALS ARE PRESENT  
THERMOPLASTIC

ALL TURN ARROWS 8' (2.4 m)  
CENTER TURN ARROWS IN PAIRS  
USE LARGER ARROWS: 15.6 SQ FT (1.47 SQ m)  
ALL ARROWS ARE THERMOPLASTIC

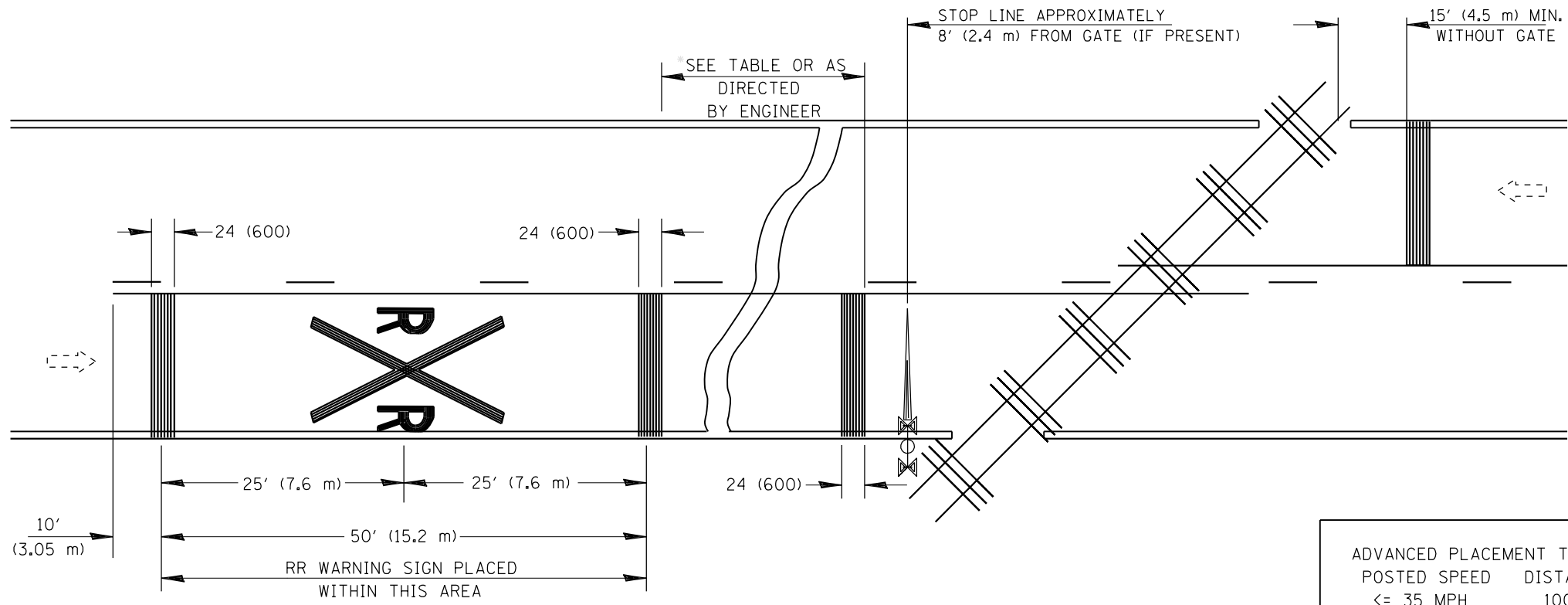
DETAIL



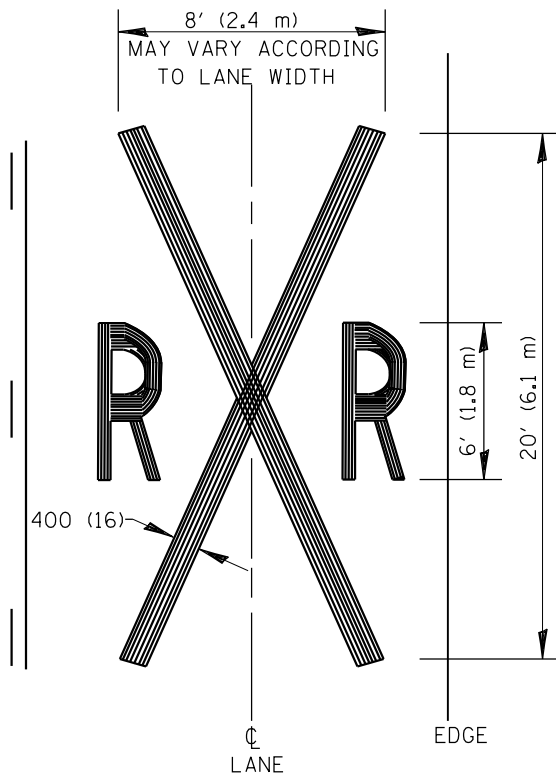
SINGLE TURN LANE  
AND  
LEFT TURN LANE CHANNELIZATION

All dimensions are in inches  
(millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS  
DATE 2016-05 NOT TO SCALE



POSTED SPEED	DISTANCE
<= 35 MPH	100 FT
40 MPH	125 FT
45 MPH	175 FT
50 MPH	250 FT
55 MPH	325 FT
60 MPH	400 FT
65 MPH	475 FT



\* THE DISTANCE FROM THE RAILROAD CROSSING MARKING TO THE NEAREST TRACK WILL VARY ACCORDING THE APPROACH SPEED AND THE SIGHT DISTANCE OF THE VEHICULAR TRAFFIC APPROACHING, BUT SHOULD NOT BE LESS THAN 50' (15.2 m)

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL RXR SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

REFER TO STANDARD ALPHABET FOR HIGHWAY SIGNS AND MARKINGS FOR RXR SYMBOLS DETAILS.

R = 3.6 SQ. FT.  
 X = 54.0 SQ. FT.  
 PAVEMENT MARKING TYPE: HMA - THERMOPLASTIC  
 PCC - EPOXY

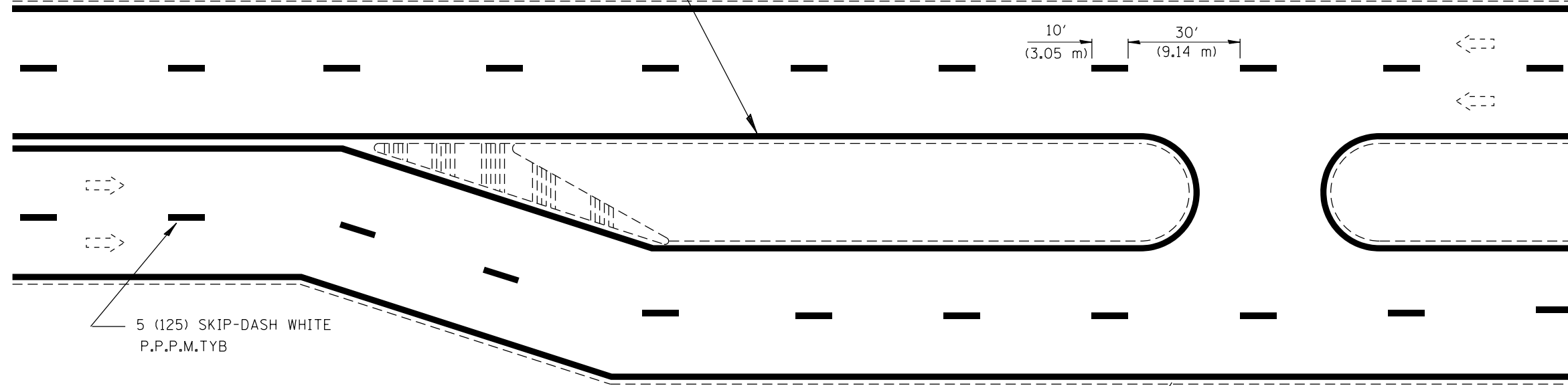
TYPICAL PAVEMENT MARKINGS  
AT  
RAILROAD-HIGHWAY GRADE CROSSINGS

All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 6 PAVEMENT MARKING STANDARDS  
 DATE 2016-05 NOT TO SCALE

MARKING TYPES ARE FOR HMA  
(FOR PCC, SEE GUIDELINES)

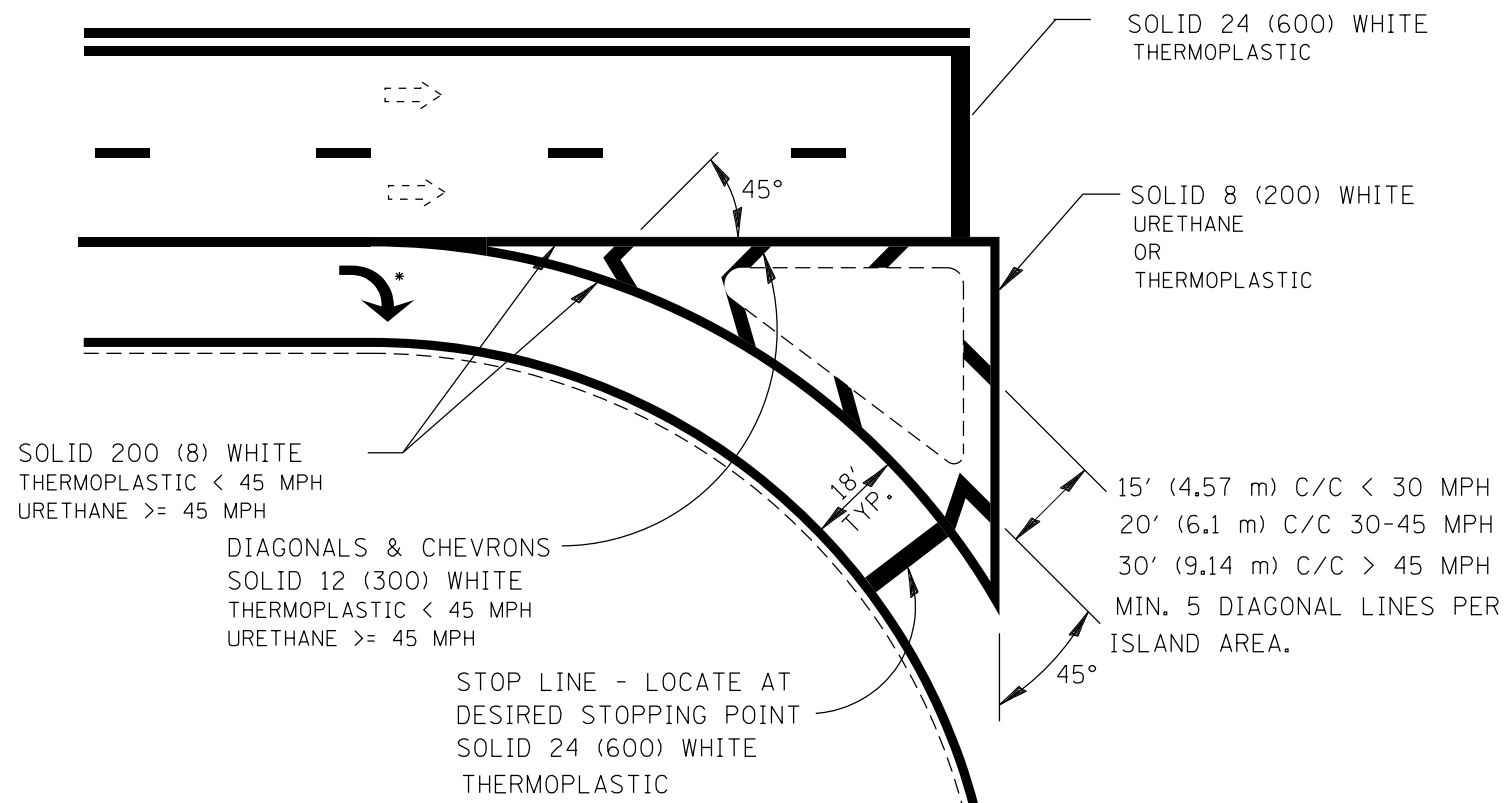
OUTLINE RUMBLE & MOUNTABLE  
MEDIANS - SOLID 5 (125) YELLOW  
THERMOPLASTIC < 45 MPH  
URETHANE >= 45 MPH



5 (125) SKIP-DASH WHITE  
P.P.P.M.TYB

RUMBLE & MOUNTABLE MEDIANS

EDGE LINES  
SOLID 5 (125) WHITE  
THERMOPLASTIC



SOLID 24 (600) WHITE  
THERMOPLASTIC

SOLID 8 (200) WHITE  
URETHANE  
OR  
THERMOPLASTIC

SOLID 200 (8) WHITE  
THERMOPLASTIC < 45 MPH  
URETHANE >= 45 MPH

DIAGONALS & CHEVRONS  
SOLID 12 (300) WHITE  
THERMOPLASTIC < 45 MPH  
URETHANE >= 45 MPH

STOP LINE - LOCATE AT  
DESIRED STOPPING POINT  
SOLID 24 (600) WHITE  
THERMOPLASTIC

15' (4.57 m) C/C < 30 MPH  
20' (6.1 m) C/C 30-45 MPH  
30' (9.14 m) C/C > 45 MPH  
MIN. 5 DIAGONAL LINES PER  
ISLAND AREA.

HMA SURFACES USE:  
THE MATERIAL SHOWN

CONCRETE SURFACES USE:  
CALL OPERATIONS FOR MATERIAL USE

\* NOTE: WHEN ISLAND IS PRESENT  
LOCATE LAST ARROW AT GORE POINT

### RIGHT TURN ISLAND MARKING AND CHANNELIZATION

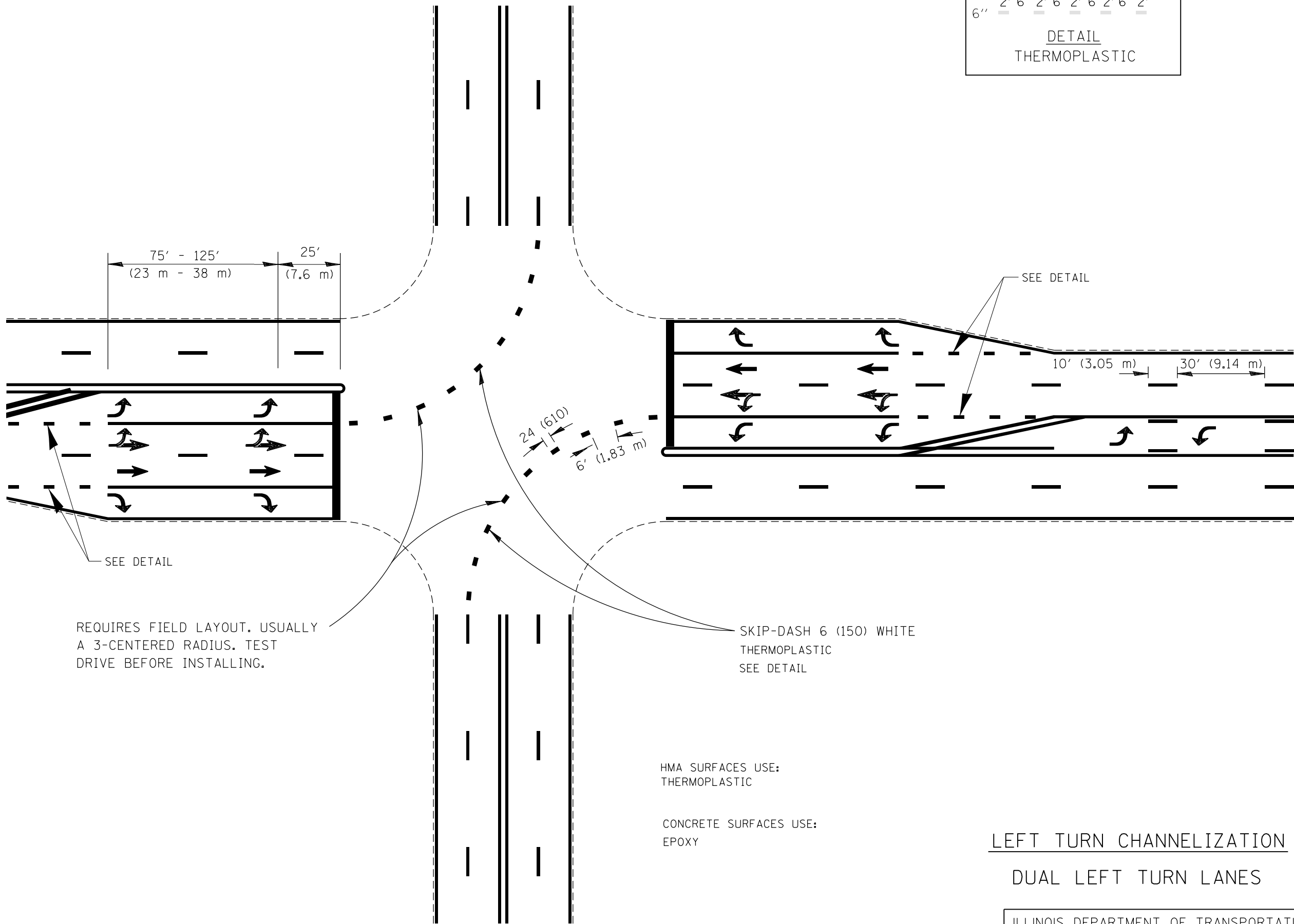
All dimensions are in inches  
(millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS

DATE 2016-05

NOT TO SCALE

6" 2' 6" 2' 6" 2' 6" 2' 6" 2'  
 DETAIL  
 THERMOPLASTIC



REQUIRES FIELD LAYOUT. USUALLY  
 A 3-CENTERED RADIUS. TEST  
 DRIVE BEFORE INSTALLING.

SKIP-DASH 6 (150) WHITE  
 THERMOPLASTIC  
 SEE DETAIL

HMA SURFACES USE:  
 THERMOPLASTIC

CONCRETE SURFACES USE:  
 EPOXY

LEFT TURN CHANNELIZATION  
DUAL LEFT TURN LANES

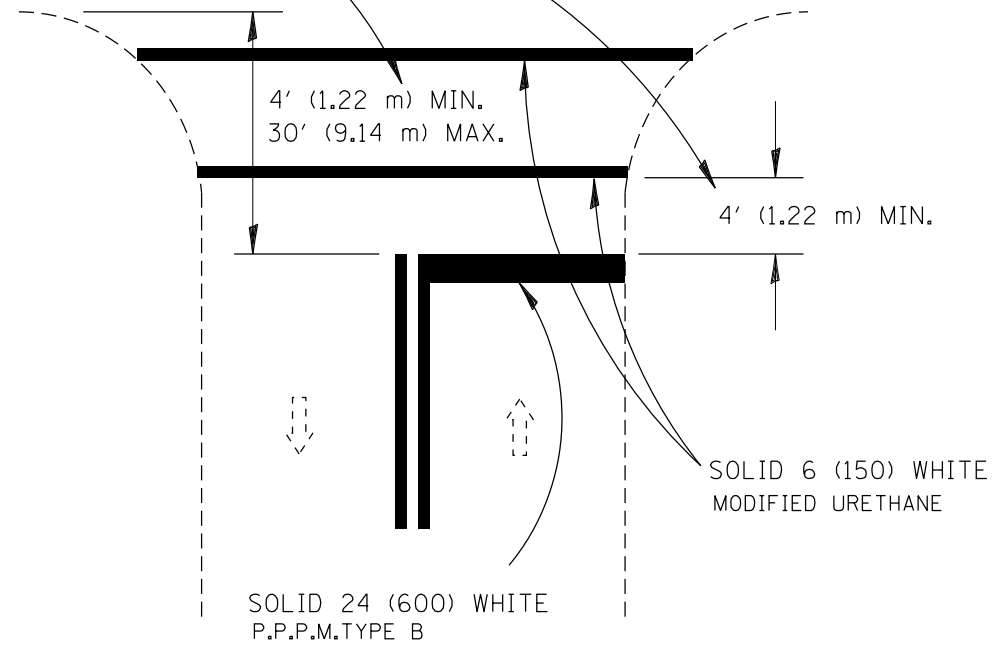
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 6 PAVEMENT MARKING STANDARDS

DATE 2016-05

NOT TO SCALE

All dimensions are in inches  
 (millimeters) unless otherwise noted.

IF CROSSWALK IS NOT PRESENT,  
LOCATE STOP LINE AT DESIRED  
STOPPING POINT.



RURAL

RELEASE NO PASSING ZONE  
100 FT AFTER STOP BAR  
WHERE APPROPRIATE

500' FT PASSING  
ZONE APPROACHING STOP BAR

STOP LINES

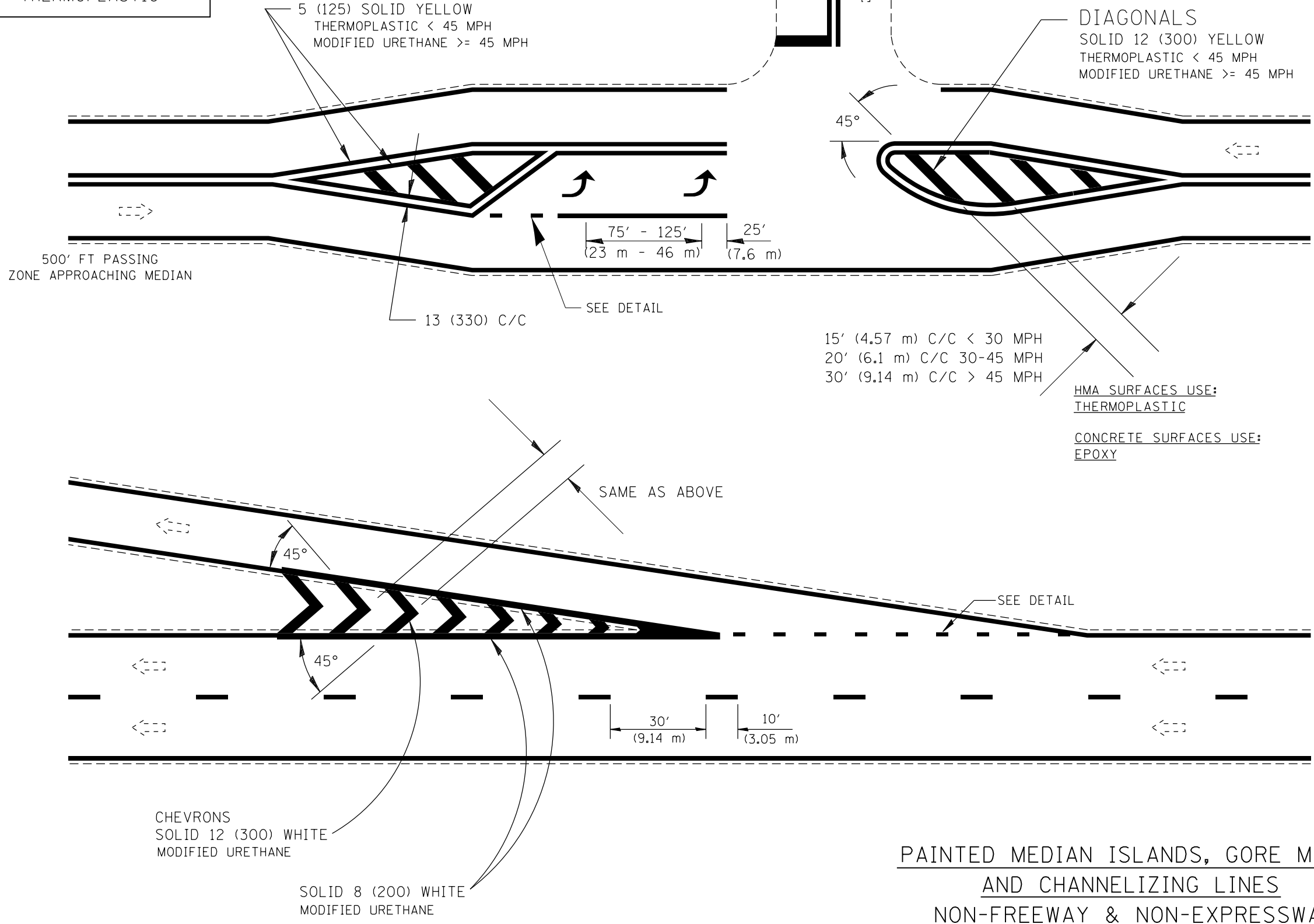
All dimensions are in inches  
(millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS

DATE 2016-05

NOT TO SCALE

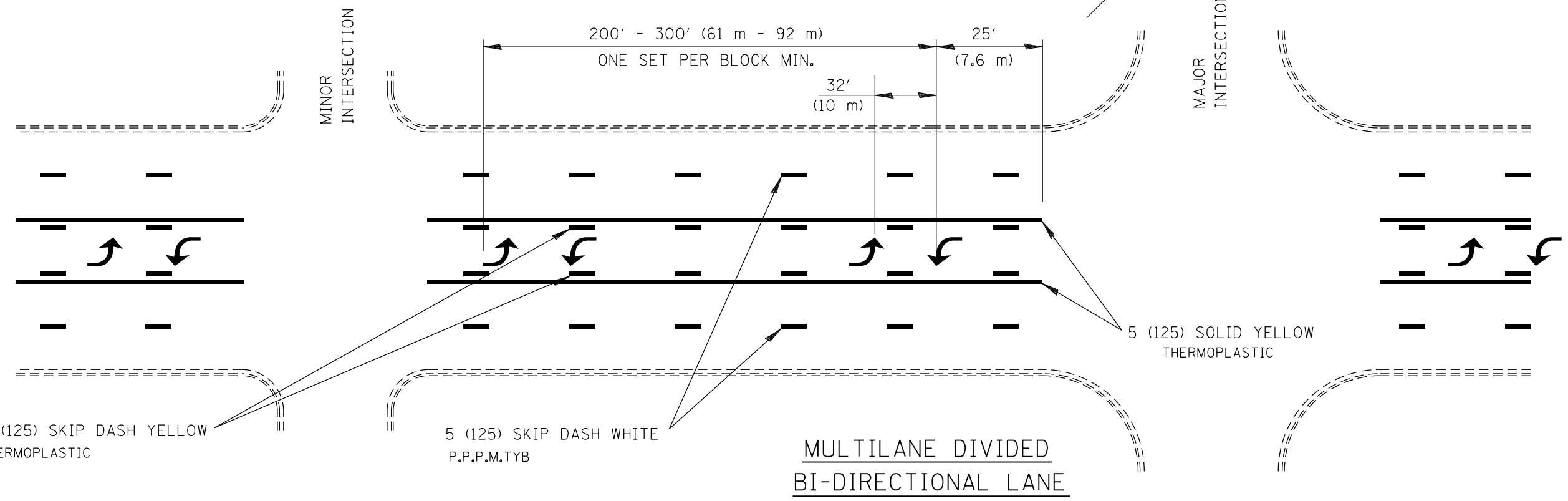
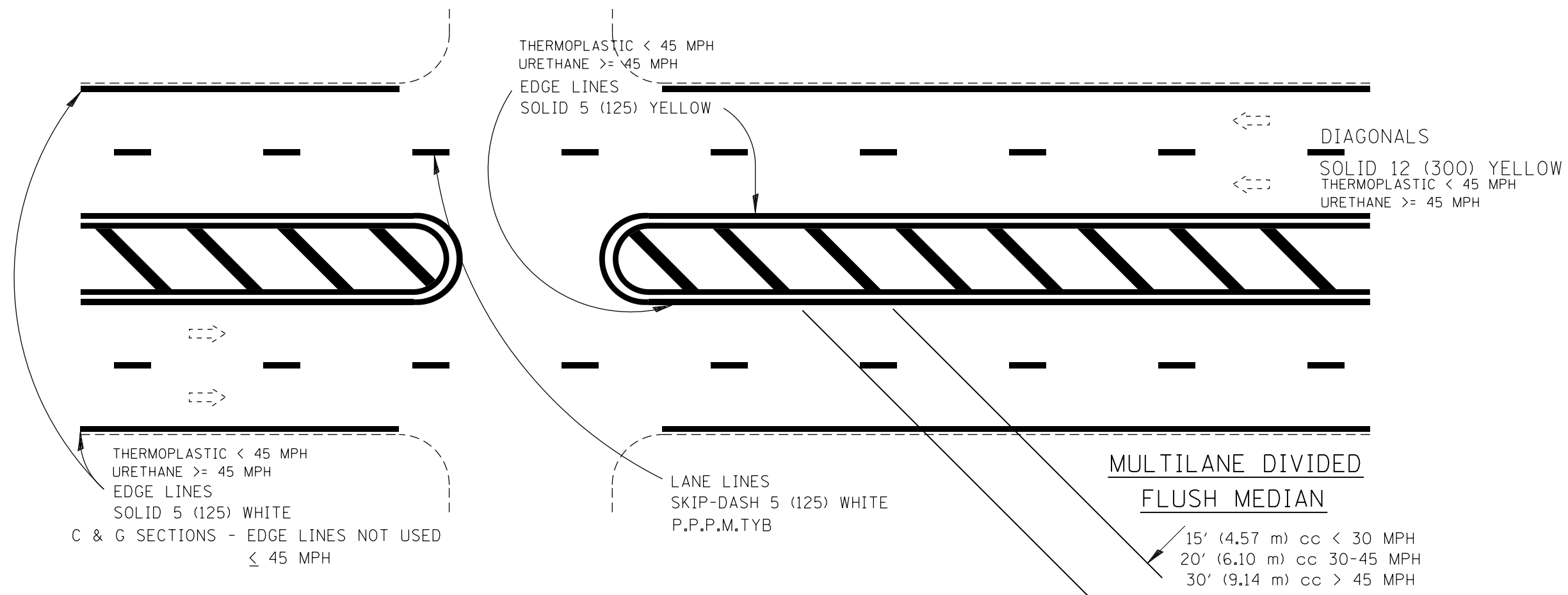
6" 2' 6" 2' 6" 2' 6" 2' 6" 2'  
DETAIL  
THERMOPLASTIC



PAINTED MEDIAN ISLANDS, GORE MARKINGS  
AND CHANNELIZING LINES  
NON-FREEWAY & NON-EXPRESSWAY

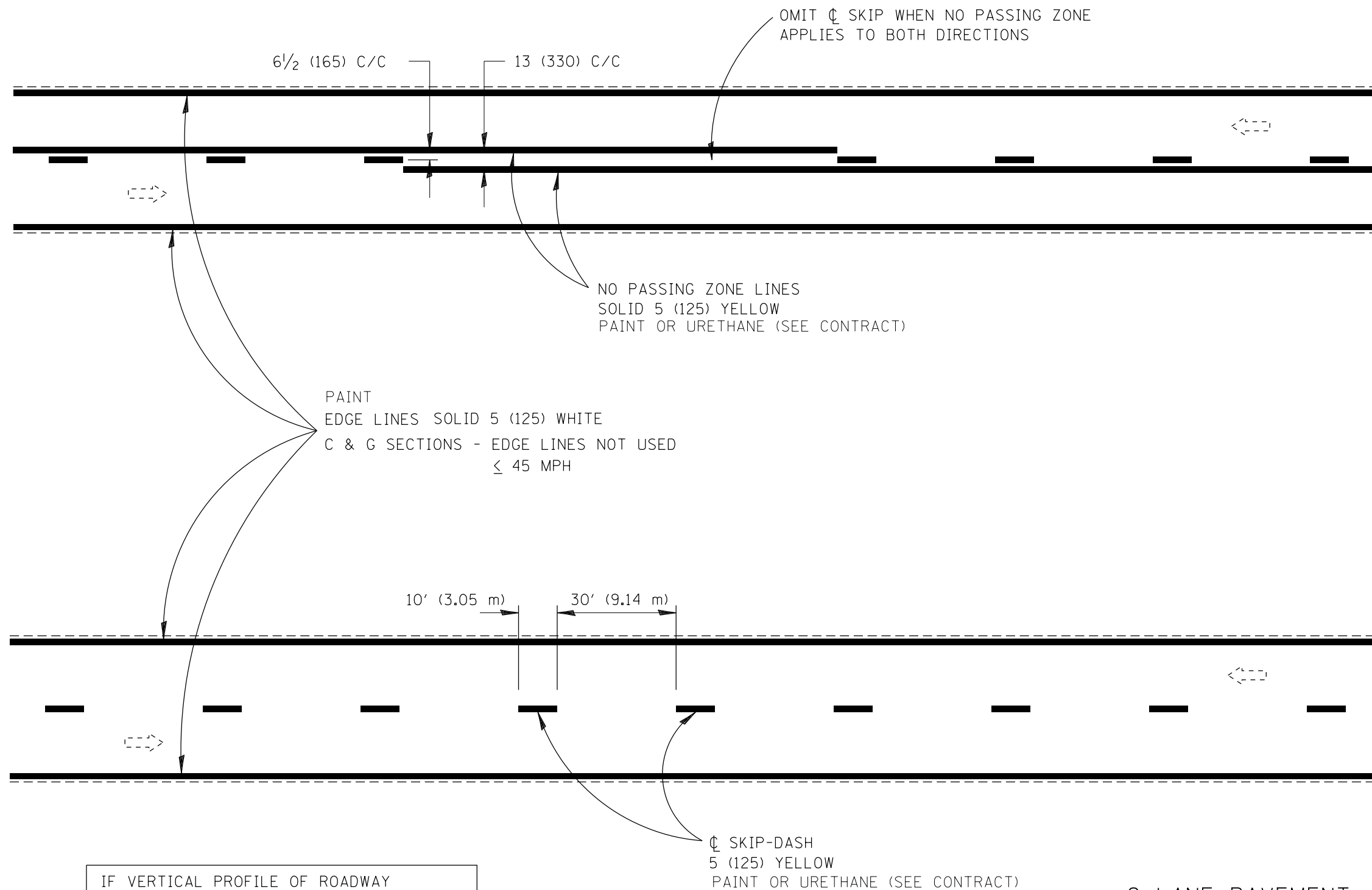
All dimensions are in inches  
 (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 6 PAVEMENT MARKING STANDARDS  
 DATE 2016-05 NOT TO SCALE



All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS  
DATE 2016-05 NOT TO SCALE



IF VERTICAL PROFILE OF ROADWAY IS CHANGED DURING CONSTRUCTION, "NO PASSING ZONES" ARE TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS 14 DAYS PRIOR TO PERMANENT PAVEMENT MARKINGS.

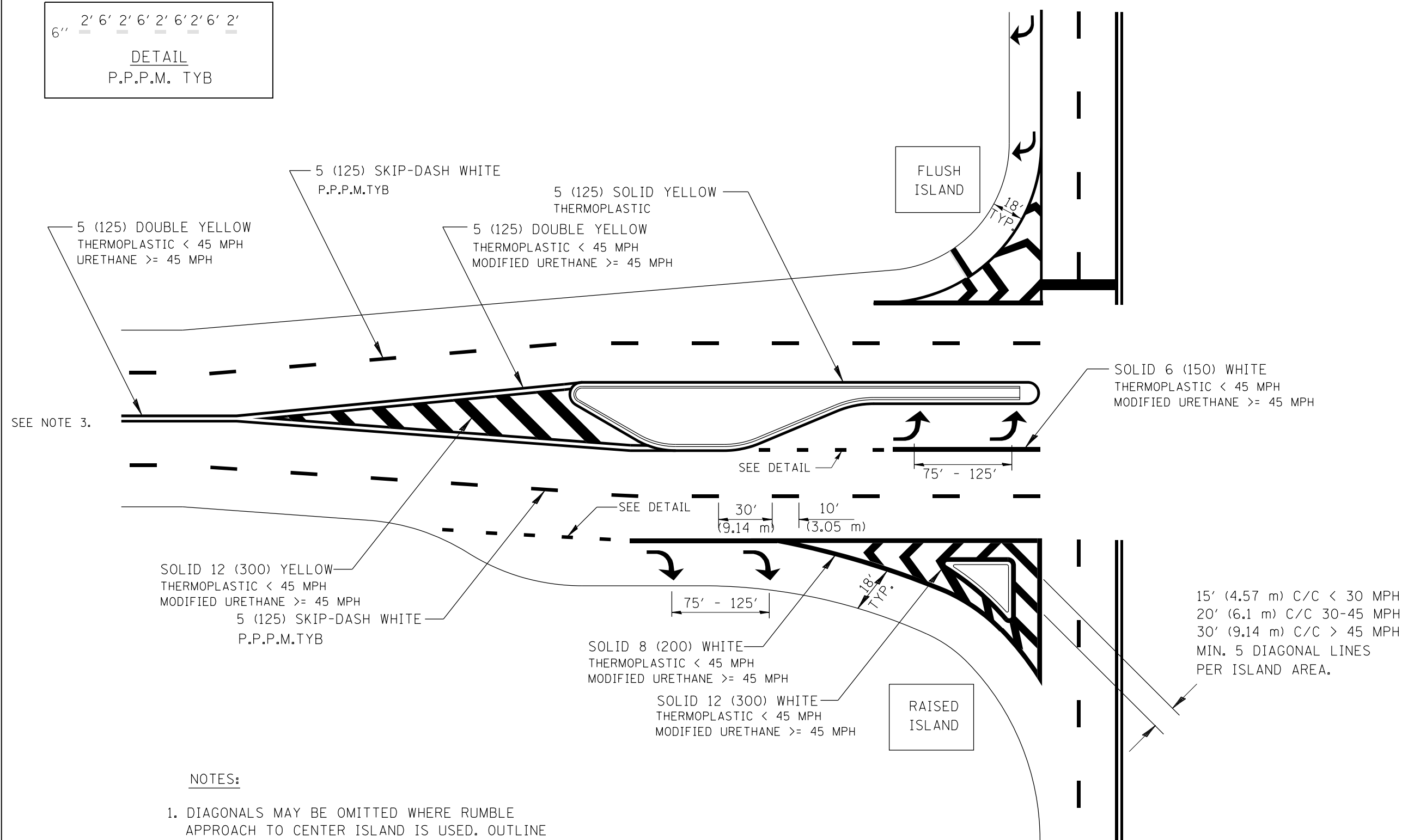
2 LANE PAVEMENT

All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS  
DATE 2016-05 NOT TO SCALE



6" 2' 6' 2' 6' 2' 6' 2' 6' 2'  
 DETAIL  
 P.P.P.M. TYB



NOTES:

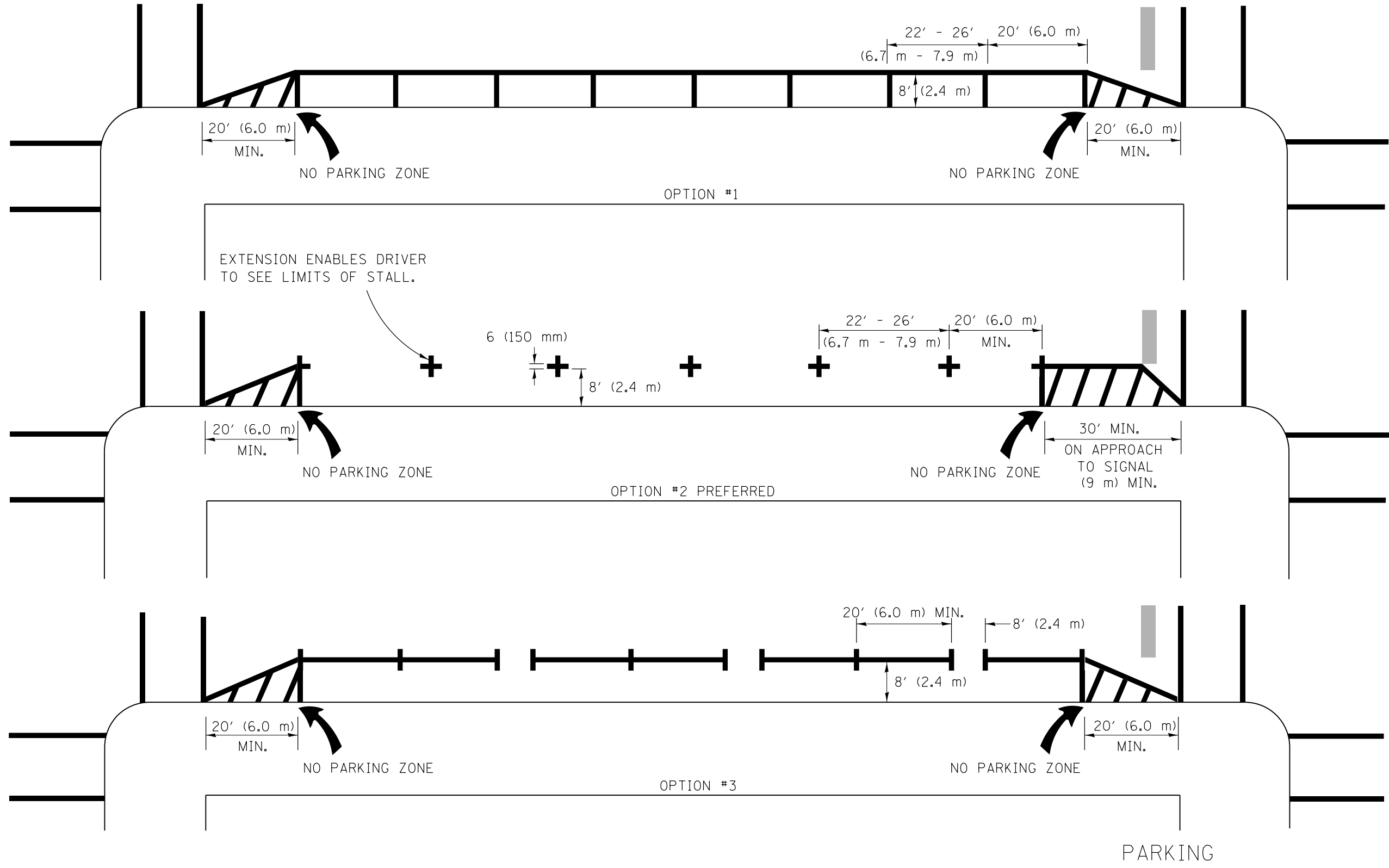
1. DIAGONALS MAY BE OMITTED WHERE RUMBLE APPROACH TO CENTER ISLAND IS USED. OUTLINE ALL RUMBLE AREA WITH SINGLE YELLOW LINE.
2. SEE FIGURE 3-13 OF THE MUTCD FOR RECOMMENDED TAPER LENGTHS.
3. BEGIN NO PASSING ZONE 500FT BEFORE PAINTED MEDIAN. RELEASE NO PASSING ZONE 100 FT AFTER PAINTED MEDIAN WHERE APPROPRIATE.

OFF-SET ISLANDS  
AND  
ISLAND APPROACH MARKINGS

All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 6 PAVEMENT MARKING STANDARDS  
 DATE 2016-05 NOT TO SCALE

PAVEMENT MARKING TYPE: HMA - THERMOPLASTIC  
PCC - EPOXY



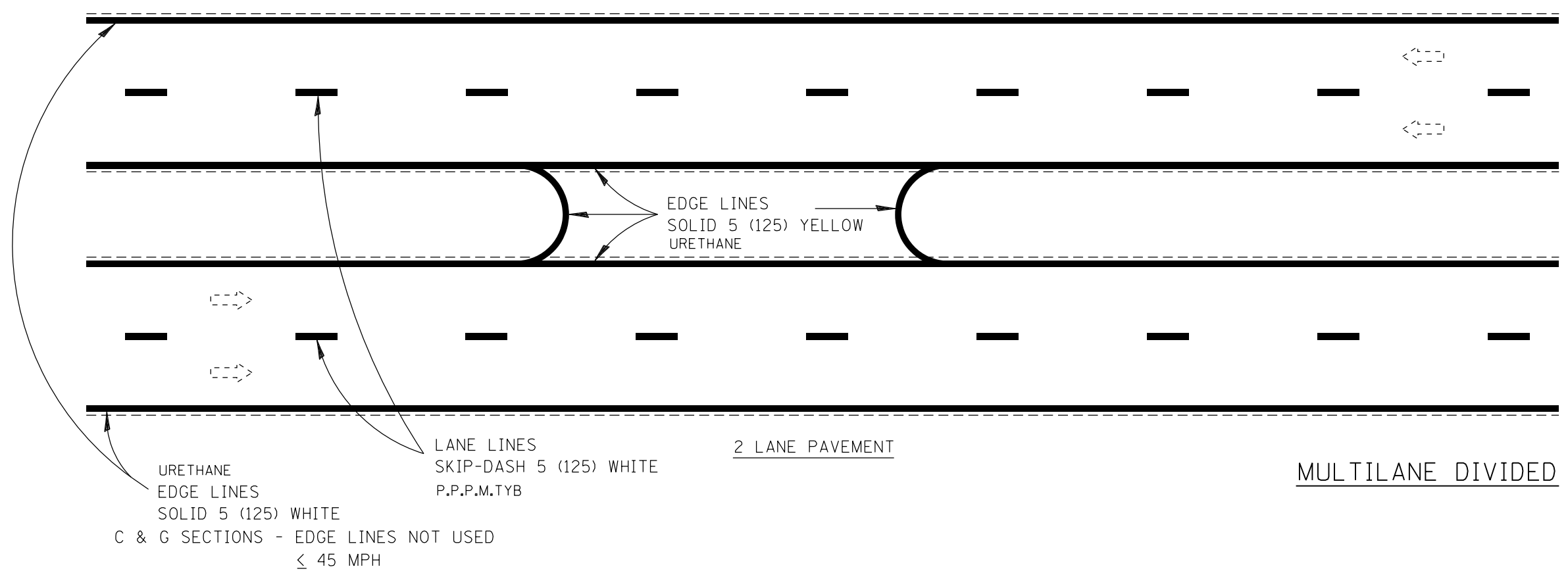
### PARKING SPACE LIMIT MARKINGS

All dimensions are in inches  
(millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS

DATE 2016-05

NOT TO SCALE



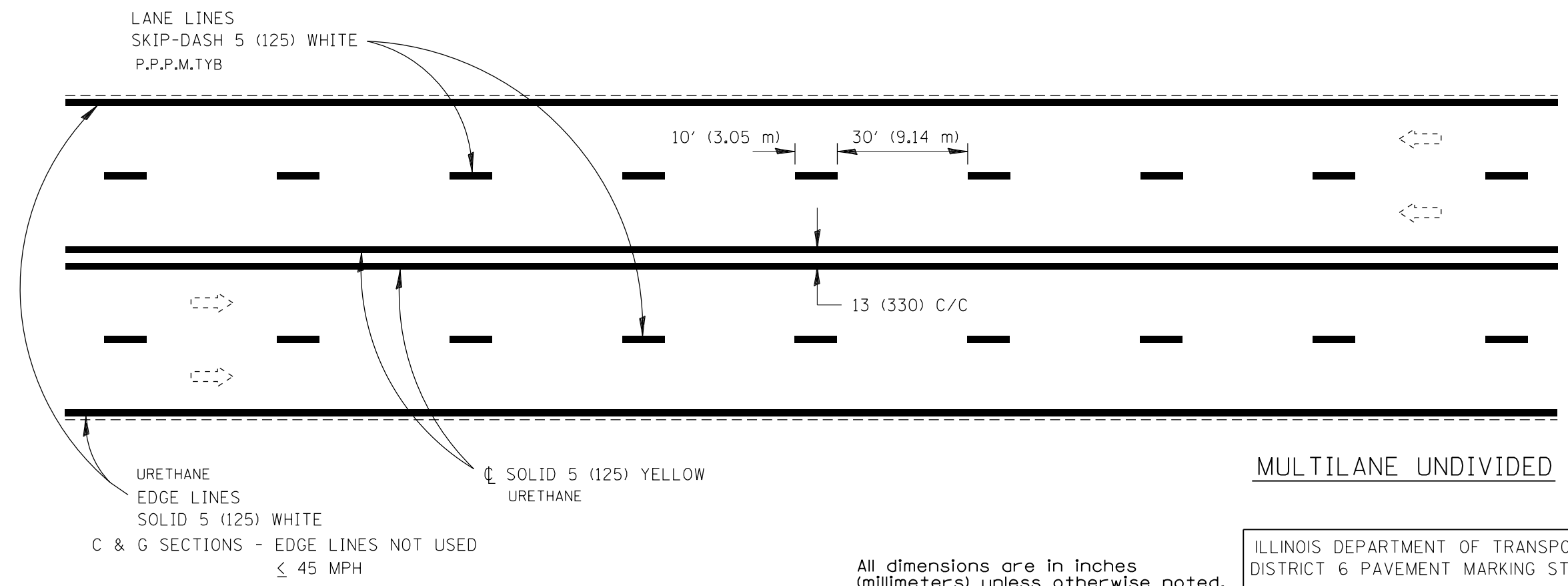
EDGE LINES  
SOLID 5 (125) YELLOW  
URETHANE

URETHANE  
EDGE LINES  
SOLID 5 (125) WHITE  
C & G SECTIONS - EDGE LINES NOT USED  
≤ 45 MPH

LANE LINES  
SKIP-DASH 5 (125) WHITE  
P.P.P.M.TYB

2 LANE PAVEMENT

MULTILANE DIVIDED



LANE LINES  
SKIP-DASH 5 (125) WHITE  
P.P.P.M.TYB

10' (3.05 m)

30' (9.14 m)

13 (330) C/C

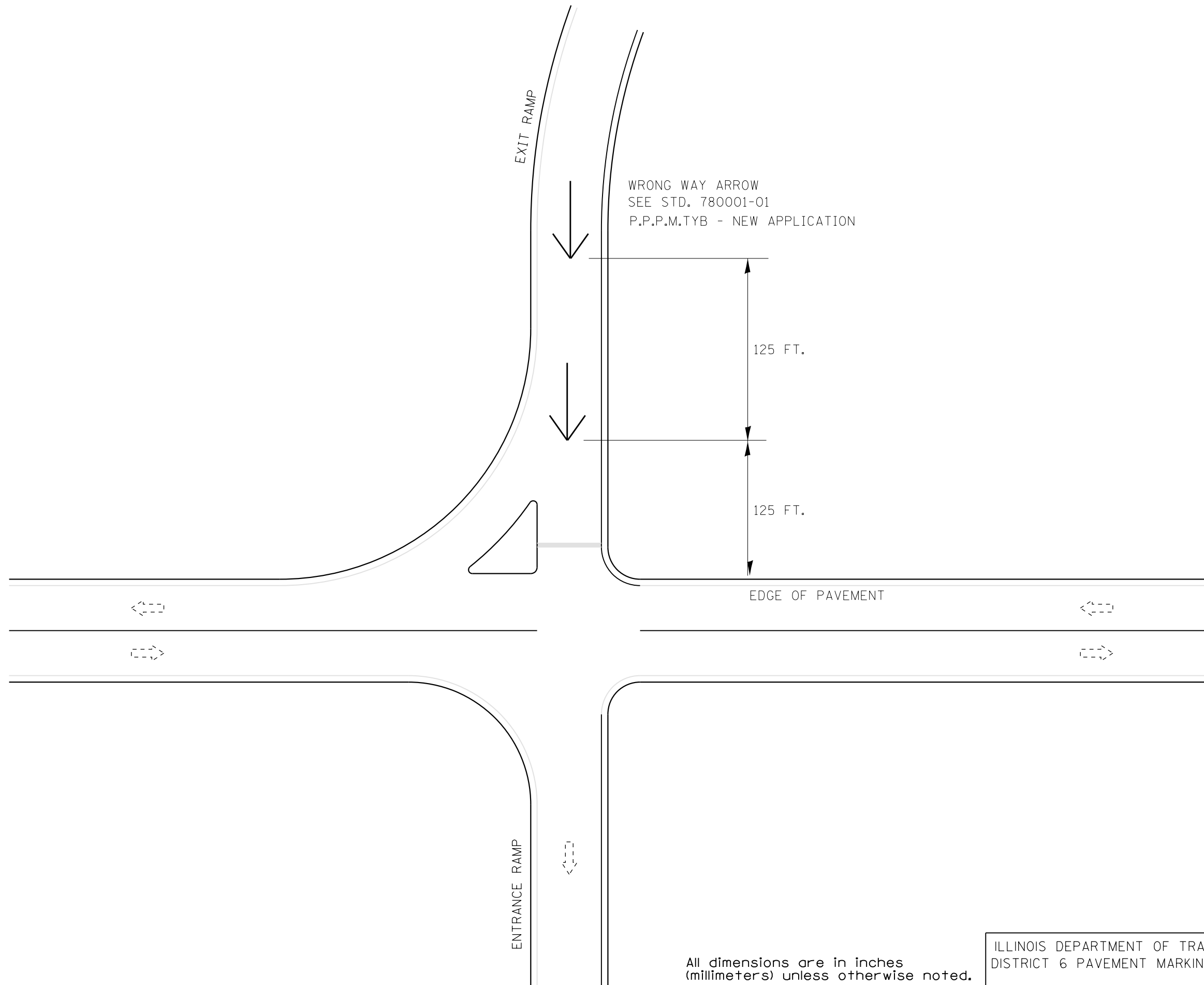
URETHANE  
EDGE LINES  
SOLID 5 (125) WHITE  
C & G SECTIONS - EDGE LINES NOT USED  
≤ 45 MPH

☉ SOLID 5 (125) YELLOW  
URETHANE

MULTILANE UNDIVIDED

All dimensions are in inches  
(millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 6 PAVEMENT MARKING STANDARDS  
DATE 2016-05 NOT TO SCALE



WRONG WAY ARROW  
 SEE STD. 780001-01  
 P.P.P.M.TYB - NEW APPLICATION

125 FT.

125 FT.

EDGE OF PAVEMENT

ENTRANCE RAMP

EXIT RAMP

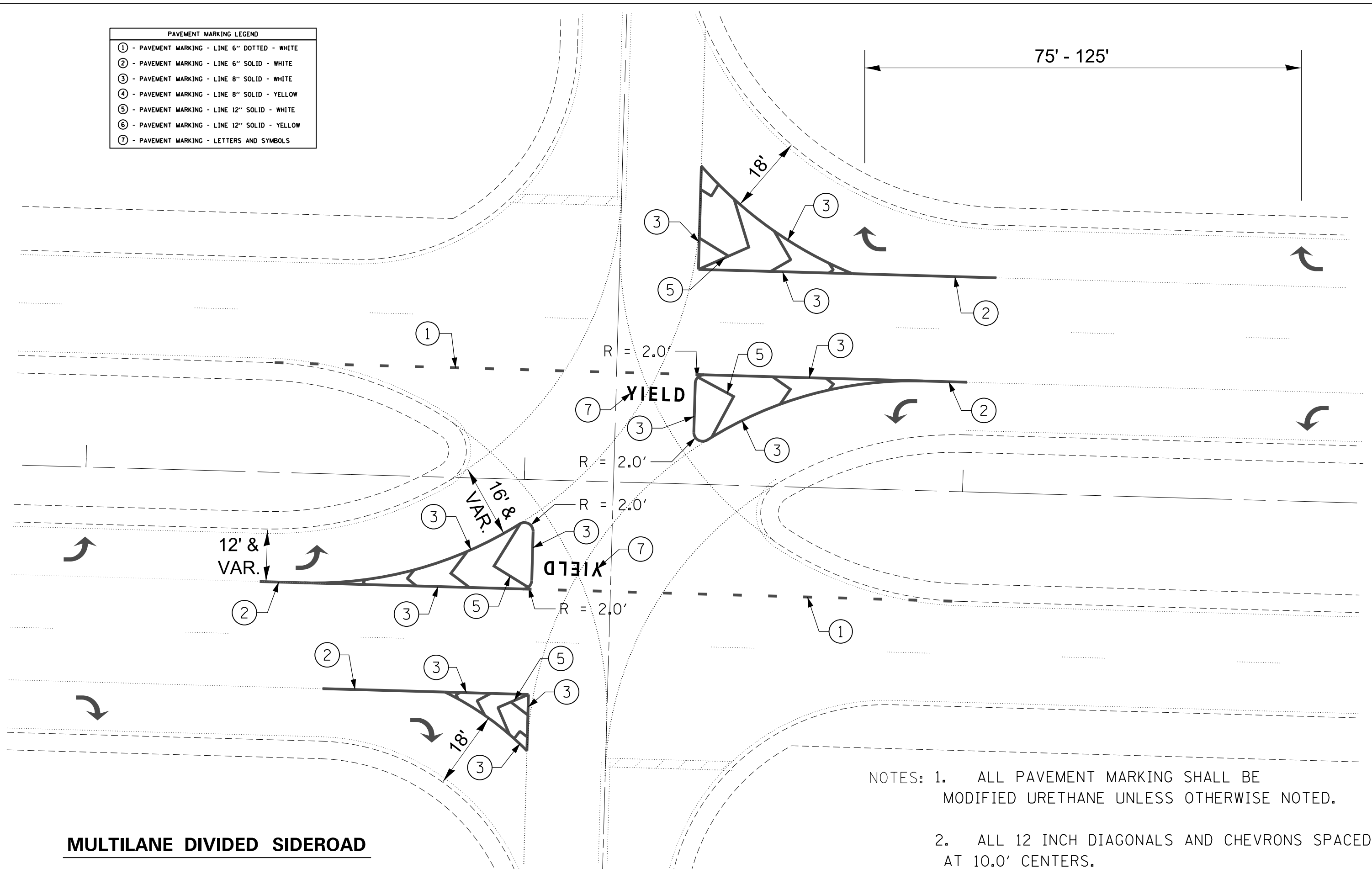
All dimensions are in inches  
 (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 6 PAVEMENT MARKING STANDARDS

DATE 2016-05

NOT TO SCALE

PAVEMENT MARKING LEGEND	
①	- PAVEMENT MARKING - LINE 6" DOTTED - WHITE
②	- PAVEMENT MARKING - LINE 6" SOLID - WHITE
③	- PAVEMENT MARKING - LINE 8" SOLID - WHITE
④	- PAVEMENT MARKING - LINE 8" SOLID - YELLOW
⑤	- PAVEMENT MARKING - LINE 12" SOLID - WHITE
⑥	- PAVEMENT MARKING - LINE 12" SOLID - YELLOW
⑦	- PAVEMENT MARKING - LETTERS AND SYMBOLS

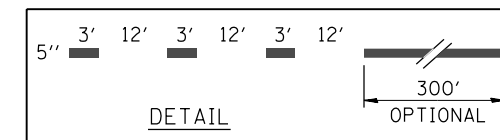
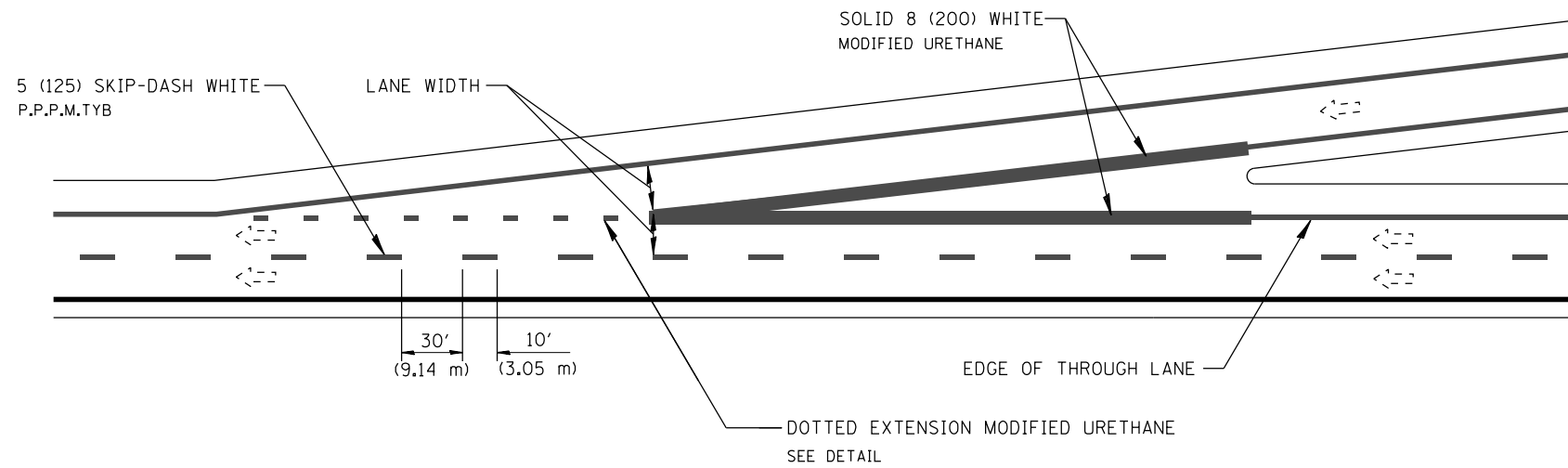


**MULTILANE DIVIDED SIDEROAD**

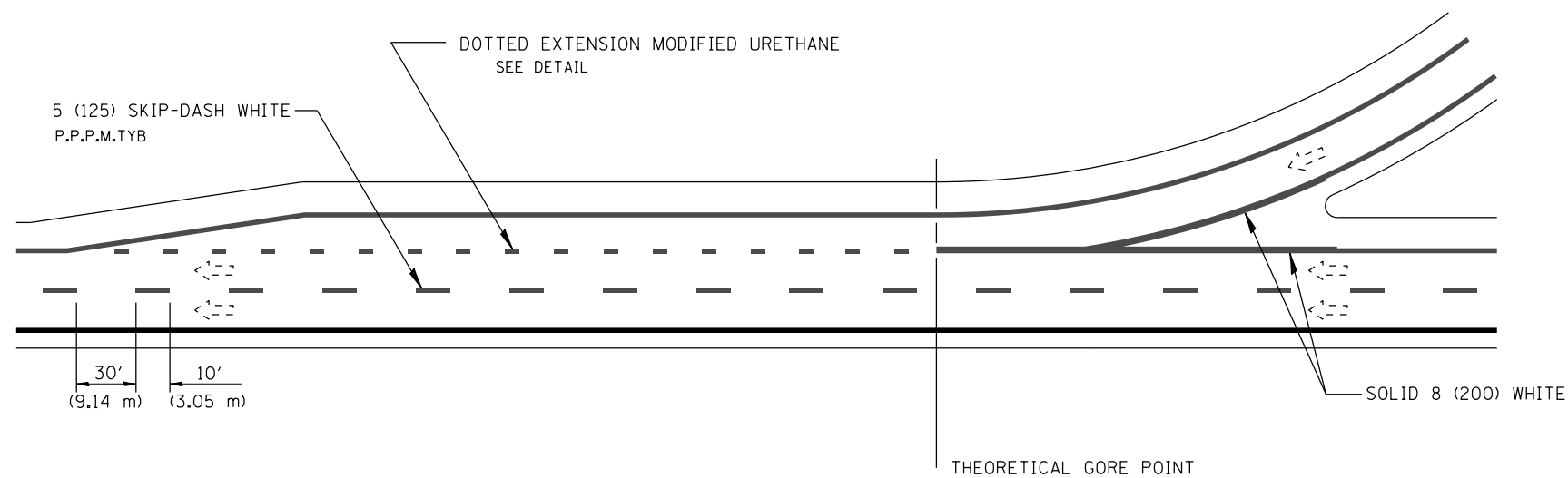
- NOTES: 1. ALL PAVEMENT MARKING SHALL BE MODIFIED URETHANE UNLESS OTHERWISE NOTED.
2. ALL 12 INCH DIAGONALS AND CHEVRONS SPACED AT 10.0' CENTERS.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\ILL084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 6\Standards\Standard\Drawings\780-D6_PAVEMENT_MARKINGS.dwg		DRAWN	REVISED								
DEFAULT	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -								
	PLOT DATE = 5/10/2016	DATE -	REVISED -								
						ILLINOIS FED. AID PROJECT					

A - TAPERED ACCELERATION LANE



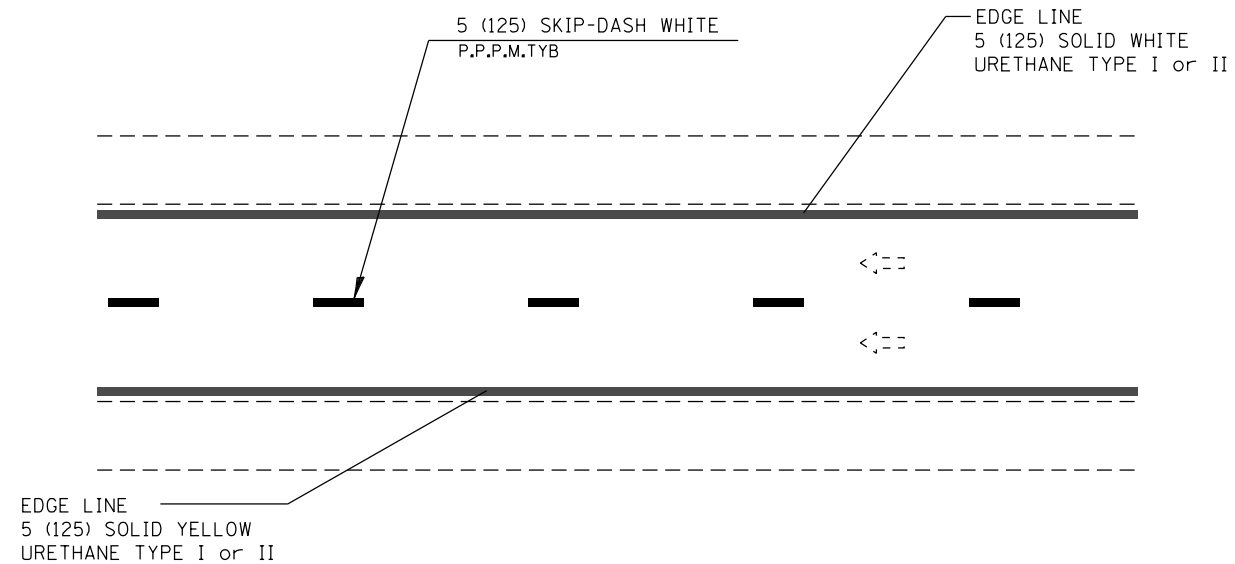
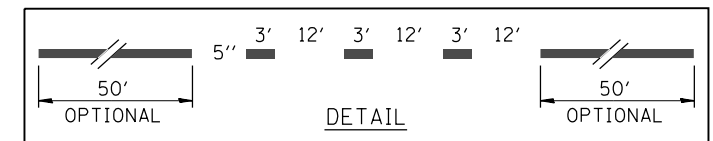
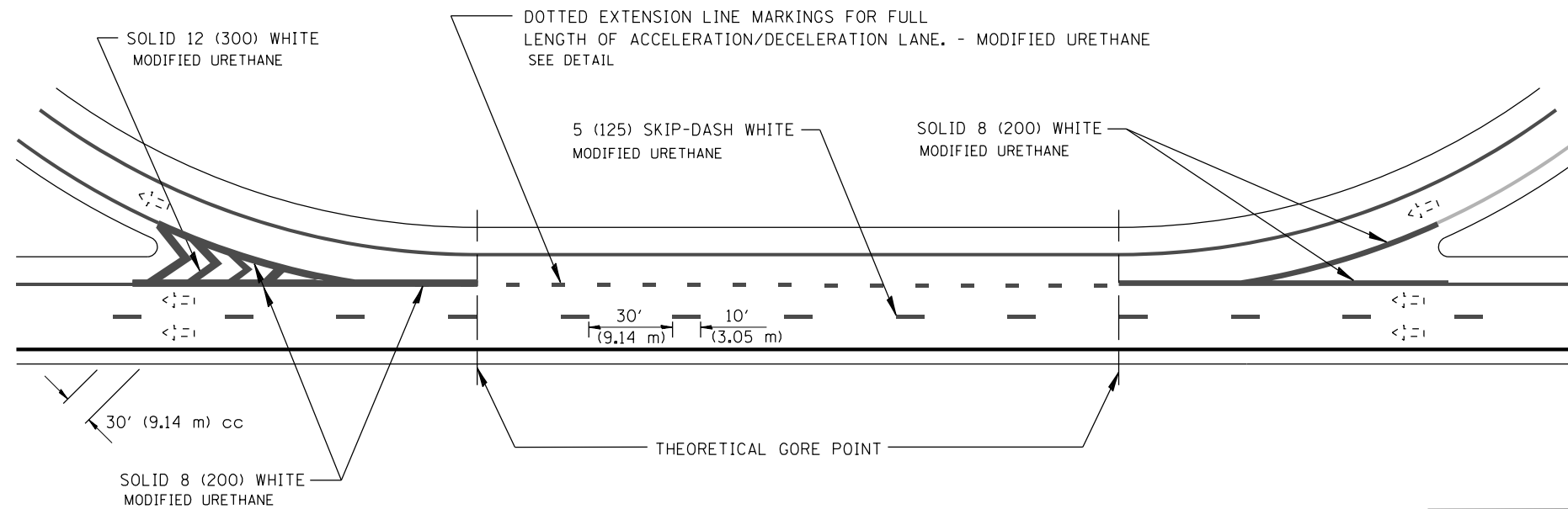
B - PARALLEL ACCELERATION LANE



ENTRANCE RAMP MARKINGS

All dimensions are in inches (millimeters) unless otherwise noted.

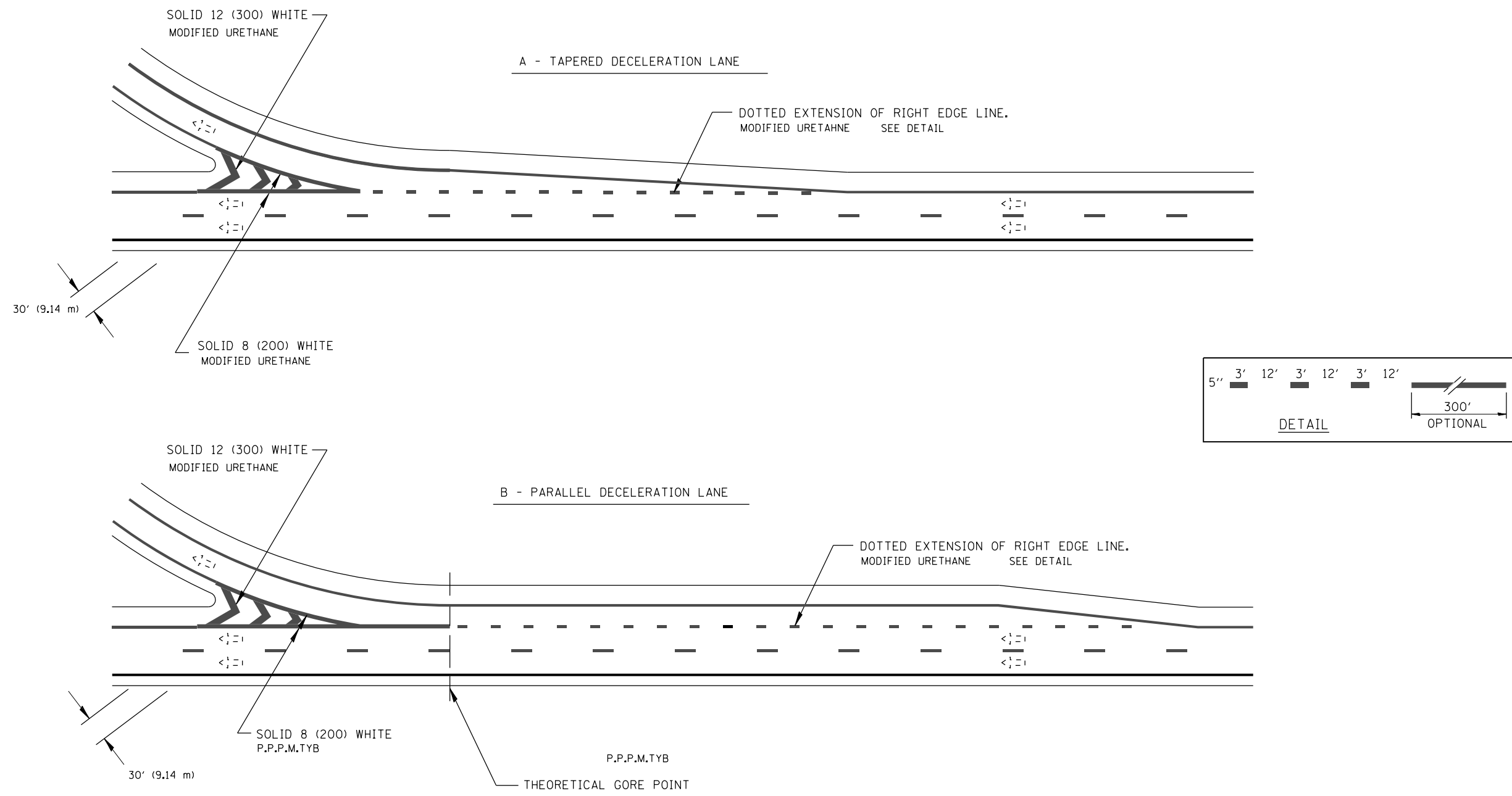
FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>D6 PAVEMENT MARKING STANDARD ENTRANCE RAMP MARKINGS - FREEWAY &amp; EXPRESSWAY</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\780-005 PAVEMENT_MARKINGS.dwg		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO.	
DEFAULT	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = 5/10/2016	DATE - 2013-01	REVISED -										



**CLOVERLEAF RAMP MARKINGS**

All dimensions are in inches (millimeters) unless otherwise noted.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>D6 PAVEMENT MARKING STANDARD ENTRANCE RAMP MARKINGS - FREEWAY &amp; EXPRESSWAY</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\780-00\PAVEMENT_MARKINGS.dwg		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.		
DEFAULT	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = 5/10/2016	DATE - 2013-01	REVISED -										



EXIT RAMP MARKINGS

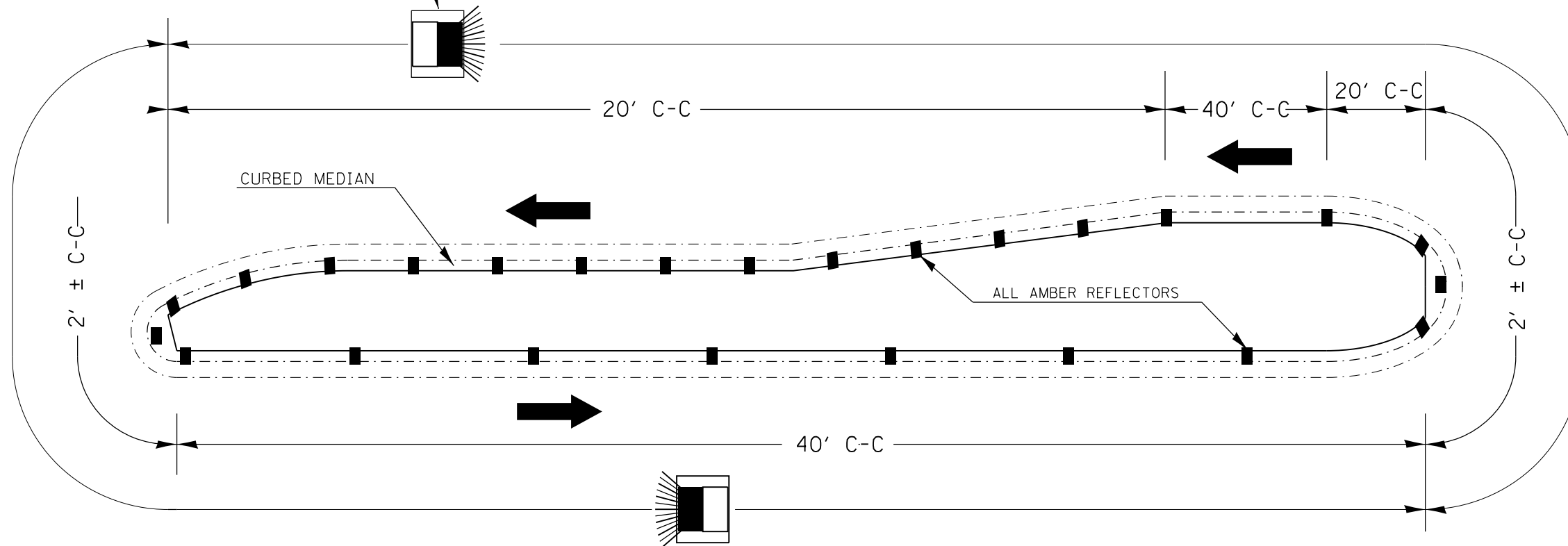
All dimensions are in inches (millimeters) unless otherwise noted.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>D6 PAVEMENT MARKING STANDARD ENTRANCE RAMP MARKINGS - FREEWAY &amp; EXPRESSWAY</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 6\Standards\Standard Details\780-D6 PAVEMENT MARKINGS.dwg		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.		
DEFAULT	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -								ILLINOIS FED. AID PROJECT		
	PLOT DATE = 5/10/2016	DATE - 2013-01	REVISED -										

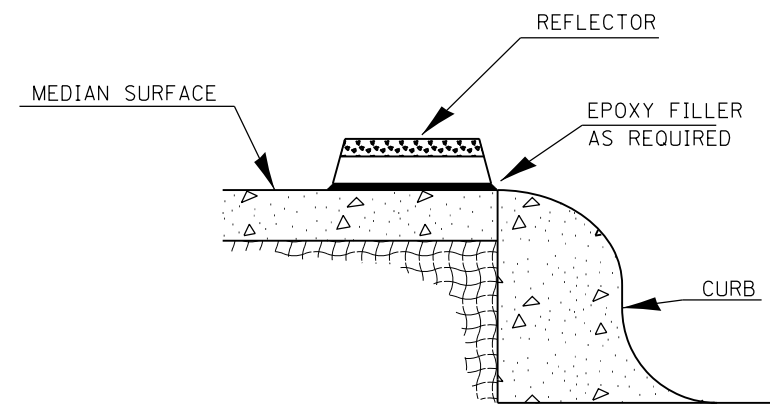
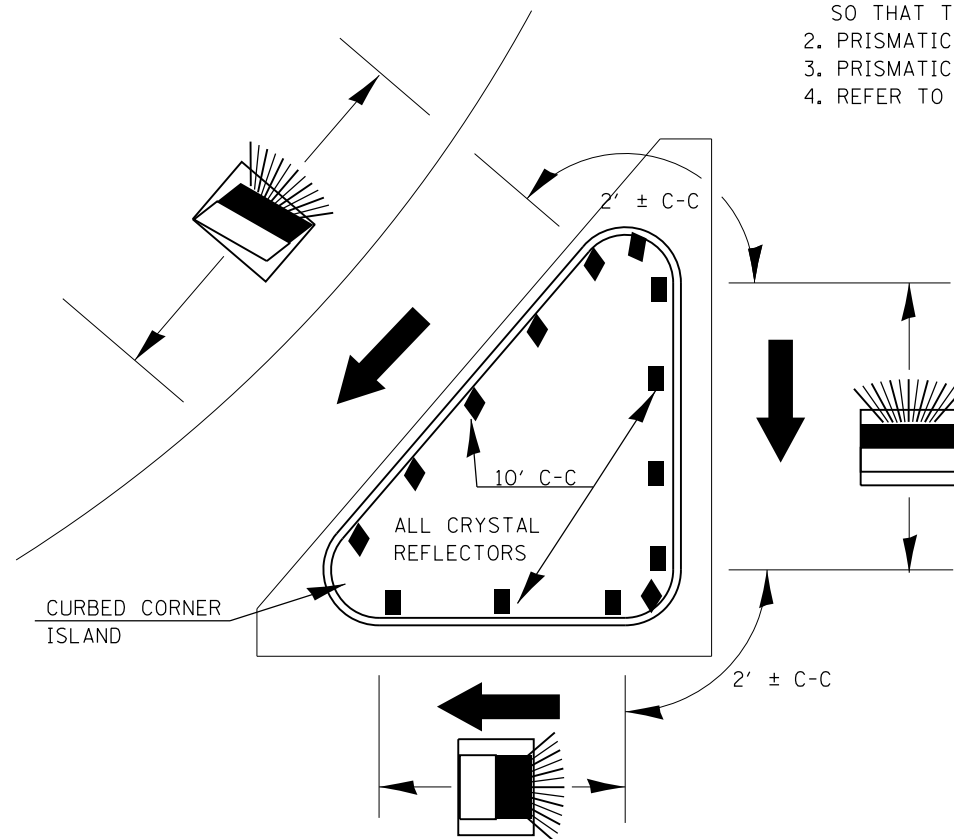


# TYPICAL PLACEMENT OF PRISMATIC REFLECTORS ON CURBS

MARKER ORIENTATION WITHIN LIMITS SHOWN

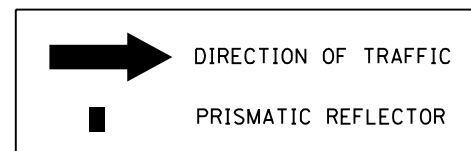


1. PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL AND POSITIONED SO THAT THE REFLECTIVE FACE IS FACING THE APPROACHING TRAFFIC.
2. PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3. PRISMATIC REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.
4. REFER TO SCHEDULES FOR PRISMATIC REFLECTOR QUANTITIES.



SECTION VIEW

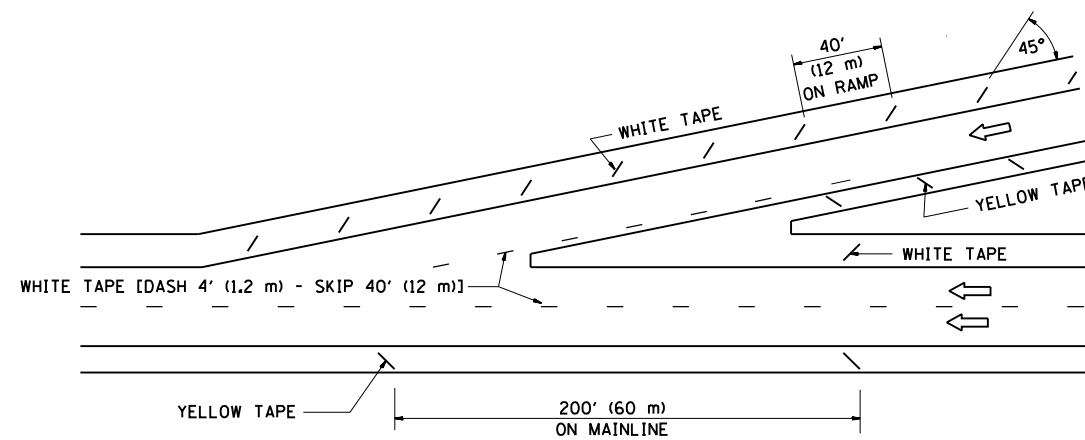
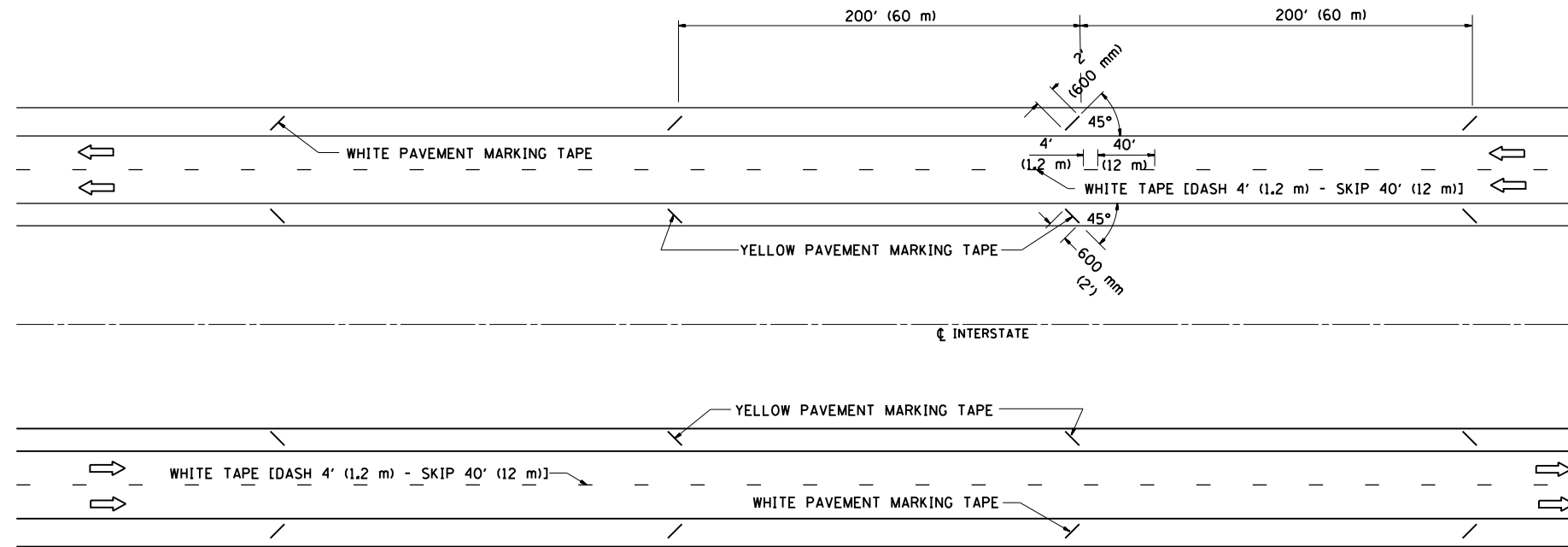
LEGEND



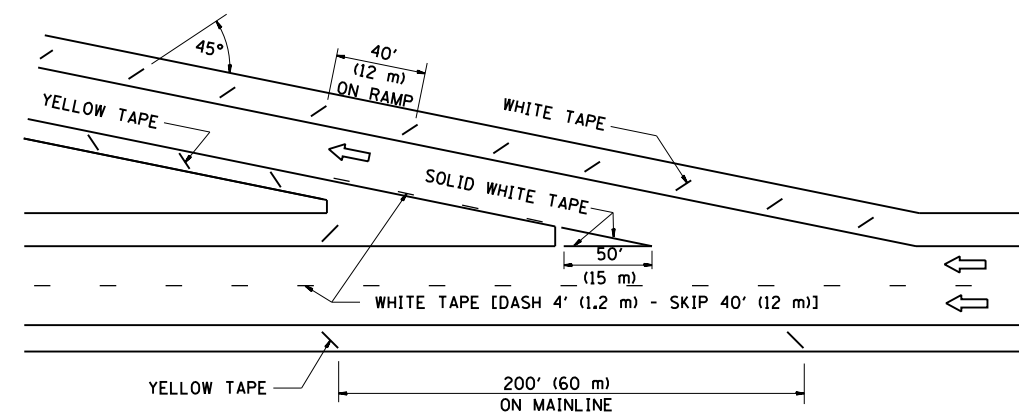
NOT TO SCALE

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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -						CONTRACT NO.				
Default PRISM.DGN	PLOT DATE = 5/10/2016	DATE - 1/24/02	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT		

TYPICAL SHORT TERM PAVEMENT MARKING FOR INTERSTATE ROUTES



TYPICAL ENTRANCE TERMINAL



TYPICAL EXIT TERMINAL

FILE NAME =	USER NAME = Verenskifa	DESIGNED - JCN	REVISED -
pw:\IL\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\780-CAD\TEMPMK.dgn		CHECKED - JCN	REVISED -
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	PLOT DATE = 5/10/2016		

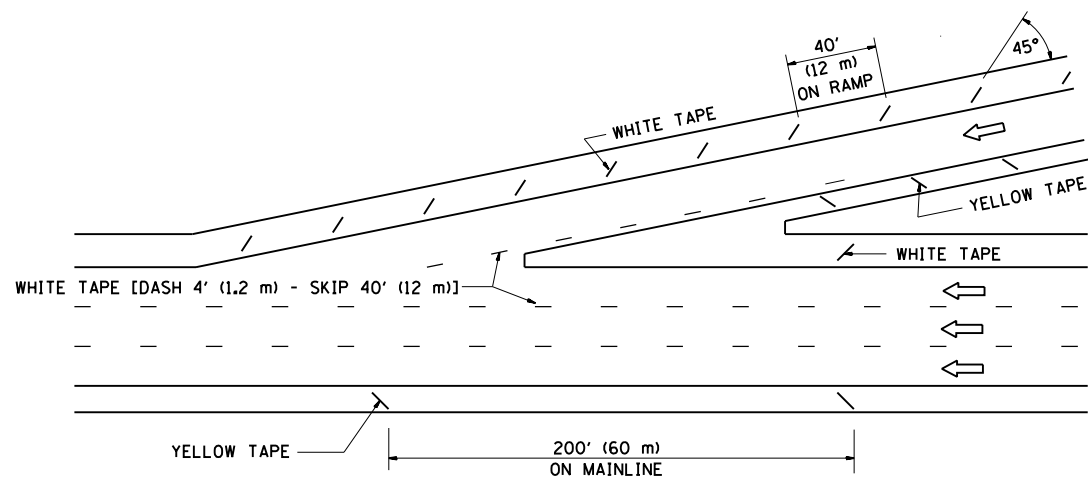
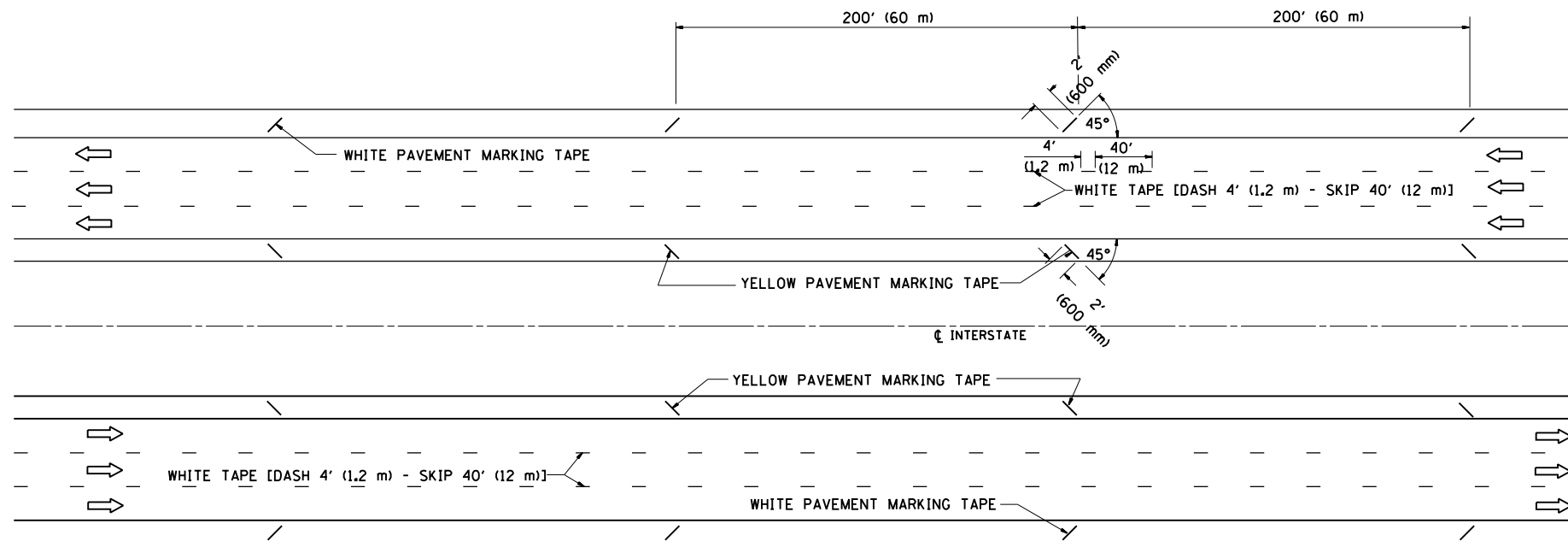
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING  
FOR INTERSTATE ROUTES

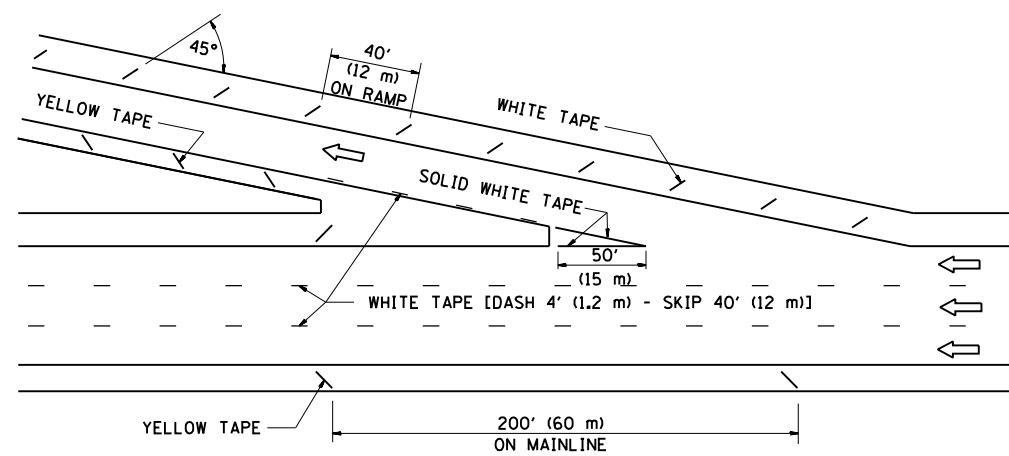
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

TYPICAL SHORT TERM PAVEMENT MARKING FOR INTERSTATE ROUTES



TYPICAL ENTRANCE TERMINAL



TYPICAL EXIT TERMINAL

FILE NAME =	USER NAME = Verenskif	DESIGNED - JCN	REVISED -
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Default	PLOT SCALE = 40.000' / in.	DATE - 6/16/97	REVISED -
TEMPMK.DGN	PLOT DATE = 5/10/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

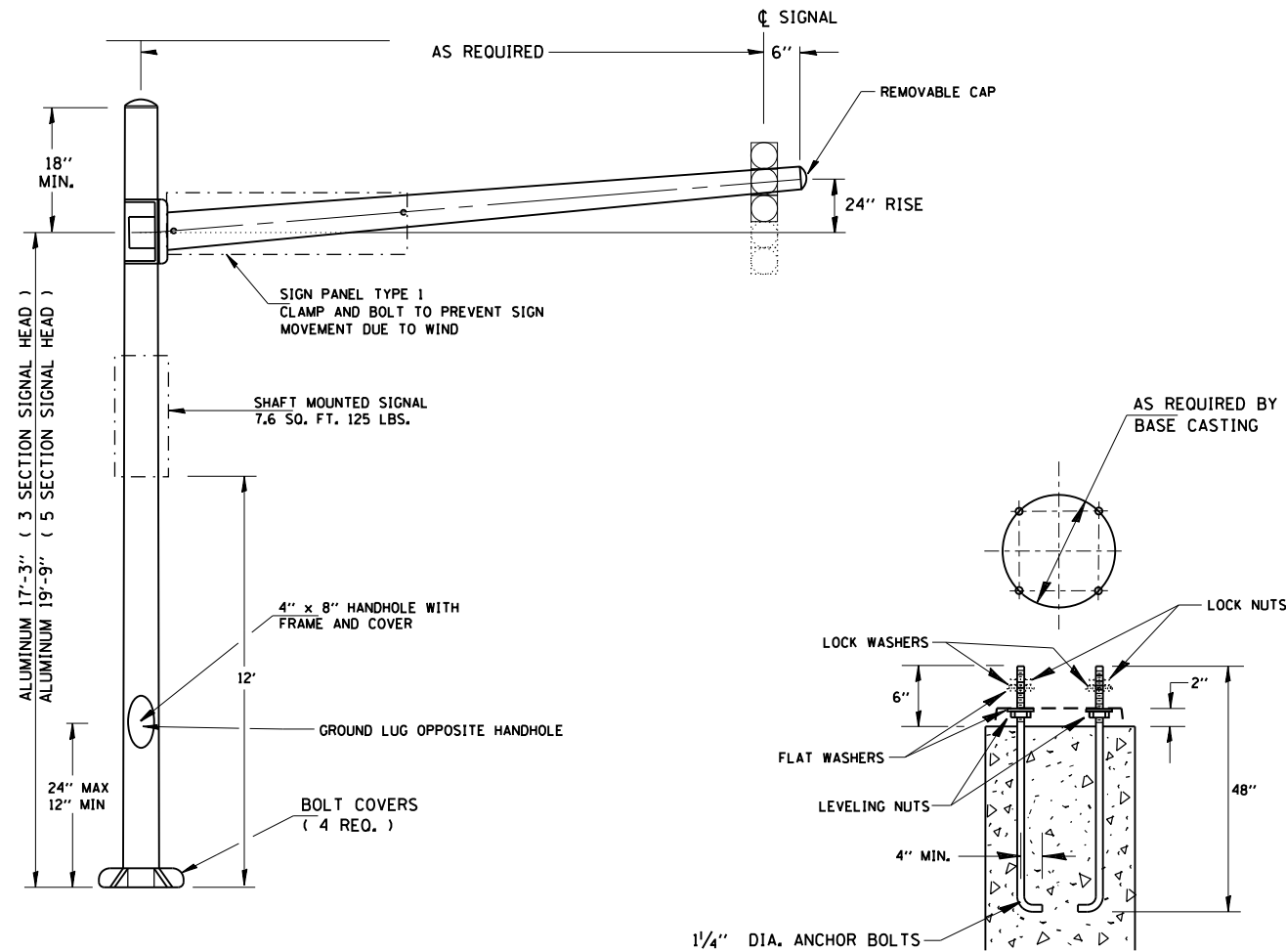
SHORT TERM PAVEMENT MARKING  
FOR INTERSTATE ROUTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				

SCHEDULE FOR MAST ARM MOUNTED STREET NAME SIGNS

QUANTITY EACH	FORMAT	LETTER SIZE	LOCATION	SIGN SIZE			SIGN PANEL	
				WIDTH	HEIGHT	SO FT	TYPE 1	TYPE 2



NUTS, LOCKWASHERS AND FLATWASHERS SHALL BE GALVANIZED STEEL. 4 EACH REQUIRED. (REFER TO ARTICLE 710.12 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION)

1. THIS STANDARD SHALL BE DESIGNED TO SUPPORT ONE 80 LB. SIGNAL HEAD OF 14.7 SQ. FT. PROJECTED AREA AT THE FREE END OF THE MAST ARM AND ONE 125 LB. SIGNAL HEAD OF 7.6 SQ. FT. PROJECTED AREA MOUNTED 12 FT. UP ON THE SHAFT OR THE SIGNAL LOADINGS SHOWN ON THE PLANS, WHICHEVER IS GREATER. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF THE MAST ARM ASSEMBLY TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THESE DRAWINGS SHALL BE AT LEAST 17 IN. BY 22 IN. IN SIZE AND OF ADEQUATE QUALITY FOR MICROFILMING.
3. HOLES IN THE SHAFT FOR WIRE INLET AND BACK CLAMP BOSSES SHALL BE DRILLED IN THE FIELD.
4. OTHER ALLOYS, ACCEPTABLE BY AASHTO, WHICH SATISFY OR EXCEED THE DESIGN REQUIREMENTS MAY BE USED IF APPROVED BY THE ENGINEER.
5. HIGH STRENGTH ANCHOR BOLTS, WHEN USED, SHALL BE SPECIFIED WITH ASTM SPECIFICATIONS INDICATING MINIMUM YIELD AND TENSILE STRENGTH.
6. THE SIGNAL HEAD ( INCLUDING BACKPLATE WHEN USED ) SHALL BE NOT LESS THAN 16'-0" OR MORE THAN 18'-0" ABOVE THE ROADWAY.

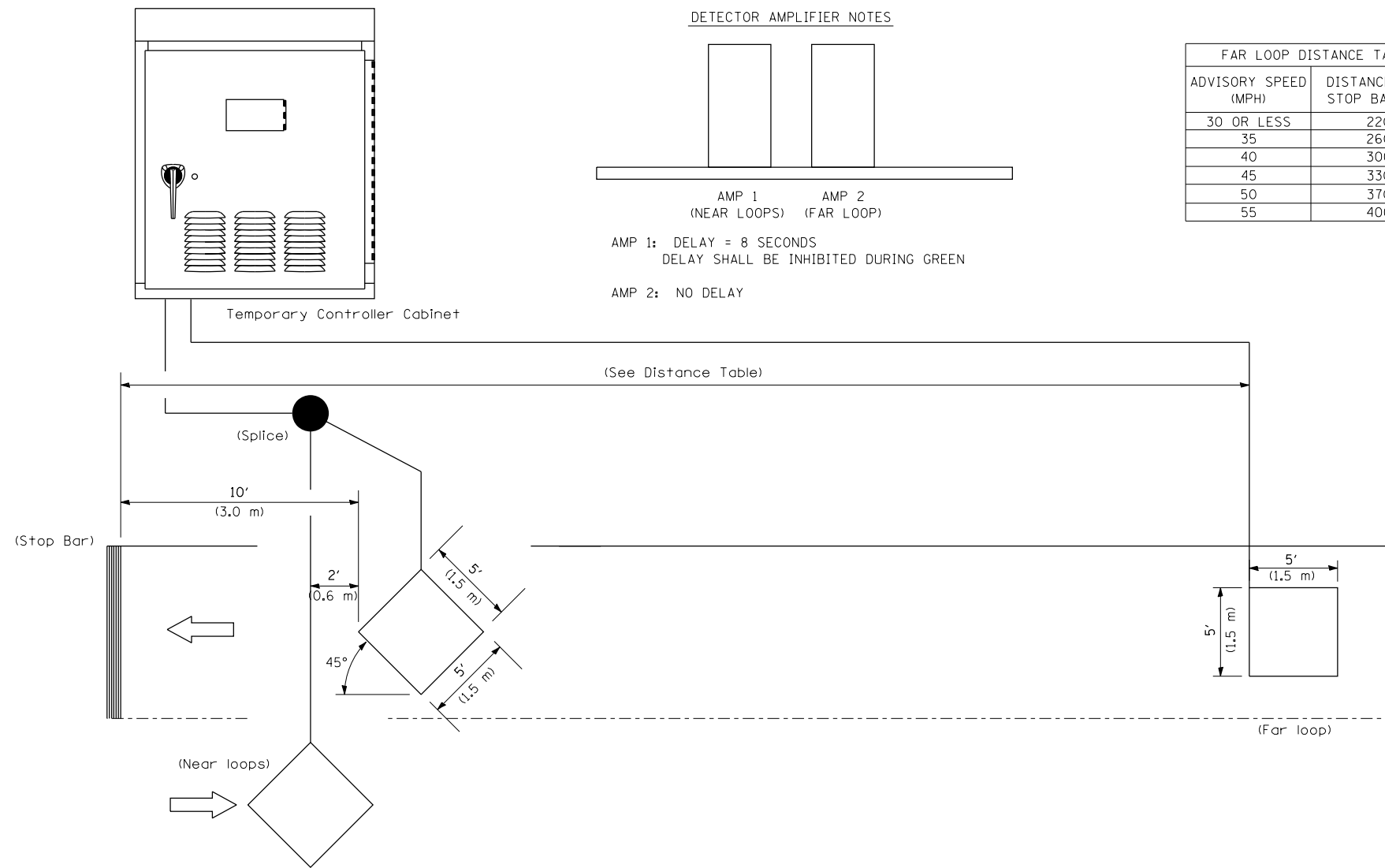
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p:\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard\Drawings\084EBIDINTEG.dgn		CHECKED -	REVISED -
AL_MASTARM.DGN		DATE - JUNE 20,1996	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

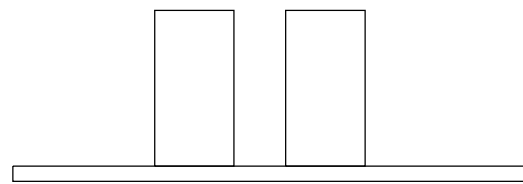
ALUMINUM 25 FT. & 30 FT. MONOTUBE  
MAST ARM ASSEMBLY AND POLE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**DETECTOR AMPLIFIER NOTES**



AMP 1: DELAY = 8 SECONDS  
 DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

FAR LOOP DISTANCE TABLE	
ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400

NOTE: All loops centered in lane.

**INDUCTION LOOP DETECTOR**

BRIDGE TEMP SIGNAL.DGN

FILE NAME =	USER NAME = Verenskif	DESIGNED - KDA	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 6\Standards\Standard Details\800-800-Age.Temp.Signal.dgn		DRAWN - KDA	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/10/2016	DATE - 6/16/04	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

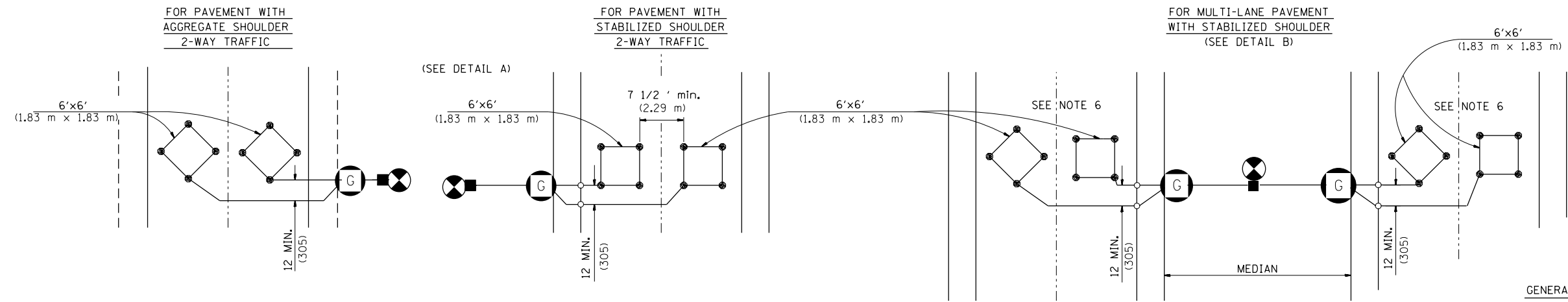
**TEMPORARY BRIDGE TRAFFIC SIGNAL  
 LOOP PLACEMENT DETAIL SHEET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



TYPICAL APPLICATIONS FOR TRAFFIC COUNTER USING TERMINAL FACILITY

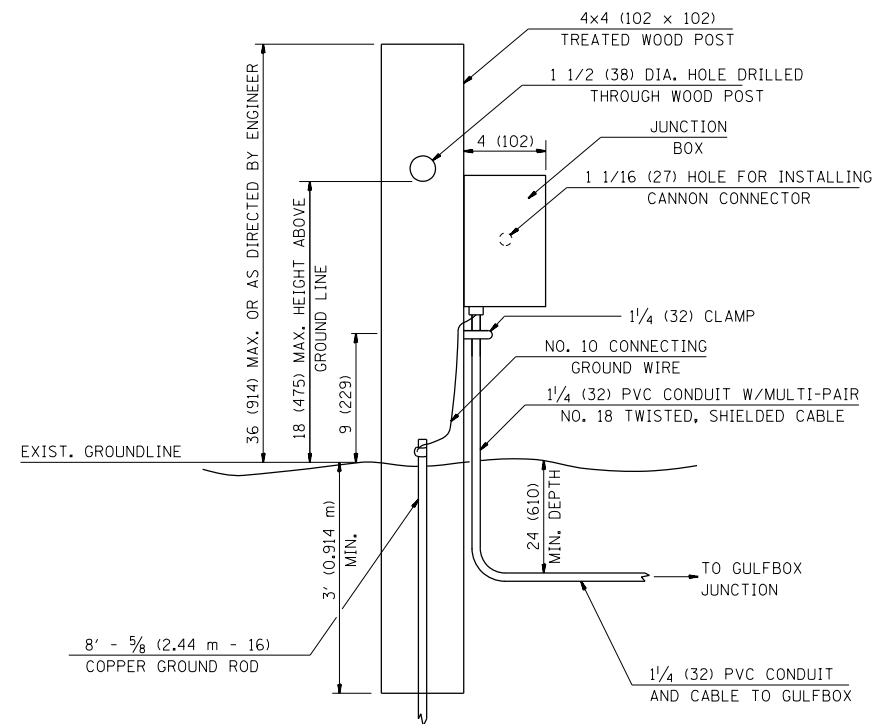


SCHEDULE OF QUANTITIES			
ITEM	QUANTITY	UNIT	CODE NO.
DETECTOR LOOP, SPECIAL	25	FOOT	M8470400
CONDUIT IN TRENCH, 1 1/4 (32 mm) DIA., PVC	9	FOOT	M8100240
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 3 PAIR	9	FOOT	M8241510
TRENCH AND BACKFILL FOR ELECTRICAL WORK	8	FOOT	M8680100
TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	-	FOOT	M8680105
GULFBOX JUNCTION	1	EACH	81500100
TERMINAL FACILITY	1	EACH	86301000
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 6 PAIR	-	FOOT	M8241520

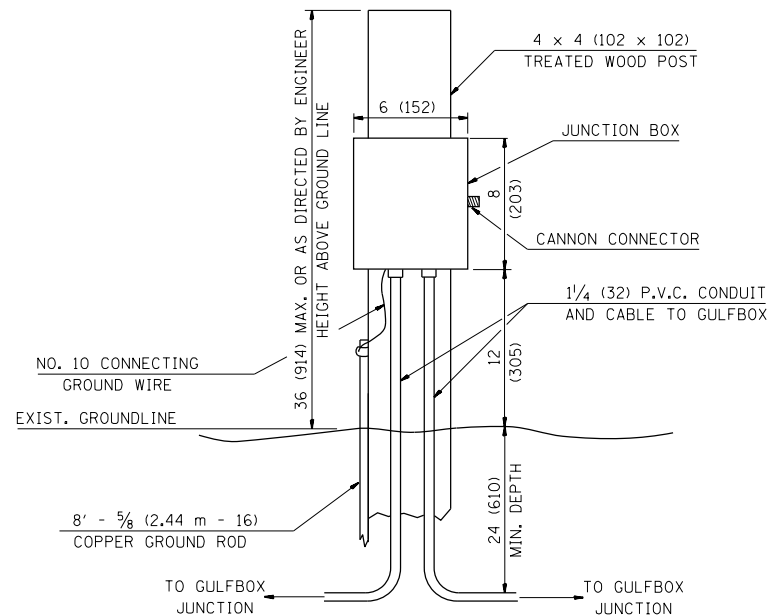
- LEGEND
- 4 x 4 (102 x 102) Treated Wood Post
  - Terminal Facility
  - Gulfbox Junction
  - Indicates 4 (102) Hole Drilled at Pavement Joint
  - Indicates 1 1/4 (32) Hole Drilled at Detector Loop Corner

- Each detector loop used shall be wired independently at the gulfbox.
- A single multiple pair cable shall be wired from the gulfbox to the terminal facility. The number of pairs in the cable shall be equal to the number of detector loops plus a minimum of one pair to be used as a spare.
- Diamond shaped loops shall be centered in the pavement lanes.
- Square shaped loops shall have a minimum separation of 7.5' (2.29 m) between inside edges of the detector loops.
- Each 6'x6' (1.83 m x 1.83 m) detector loop shall have a minimum of 4 turns of cable or as directed by the engineer.
- Detector loops may be located as squares or diamonds in the pavement as directed by the engineer. All loops shall be oriented in the same direction.
- Gulf junctions shall be located outside the aggregate or stabilized shoulder limits with the top of gulfbox junctions level with groundline as directed by the engineer.

DETAIL A  
TERMINAL FACILITY DETAIL



DETAIL B  
TERMINAL FACILITY DETAIL



NOTES FOR TERMINAL FACILITY

- Ground rod shall be connected to the junction box with No. 10 AWG copper wire as shown in the junction box detail.
- The location of the terminal facility shall be determined by the Engineer in the field.

All dimensions are in inches (millimeters) unless otherwise shown.

NOTE: DO NOT SCALE

FILE NAME =	USER NAME = Verenskif	DESIGNED - RT	REVISED - RT 22MAR93
p:\l\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard\Detail\800-8\unt93.dgn		CHECKED - CAD	REVISED - RT 05APR93
Default COUNT93.DGN		DATE - 8/19/92	REVISED - CAD 21APR95
			REVISED - CAD 10MAR97
			REVISED - CAD 05NOV98

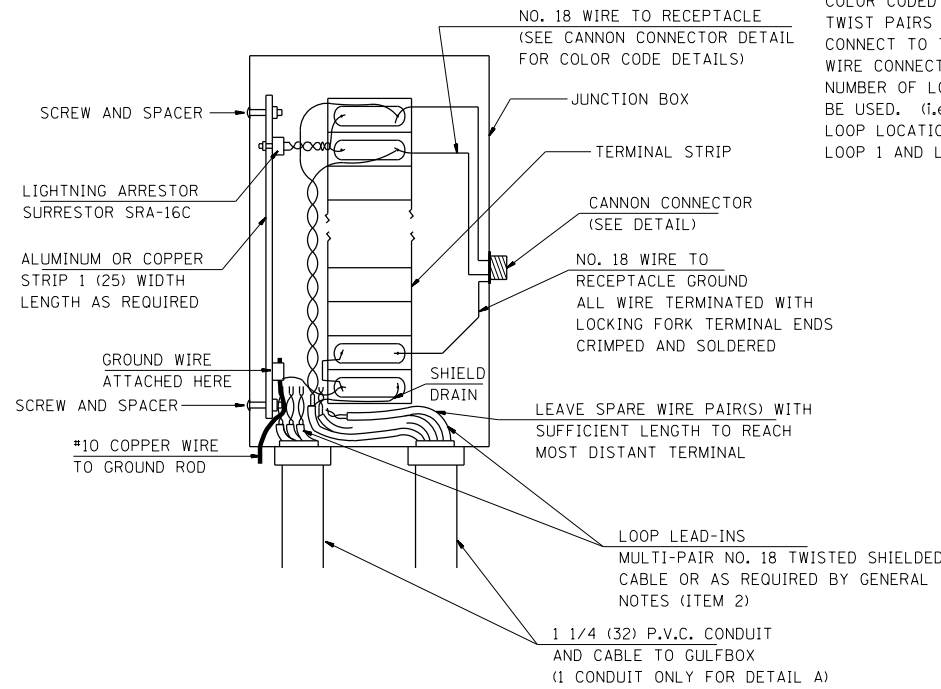
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL FOR TRAFFIC COUNTERS  
USING TERMINAL FACILITY

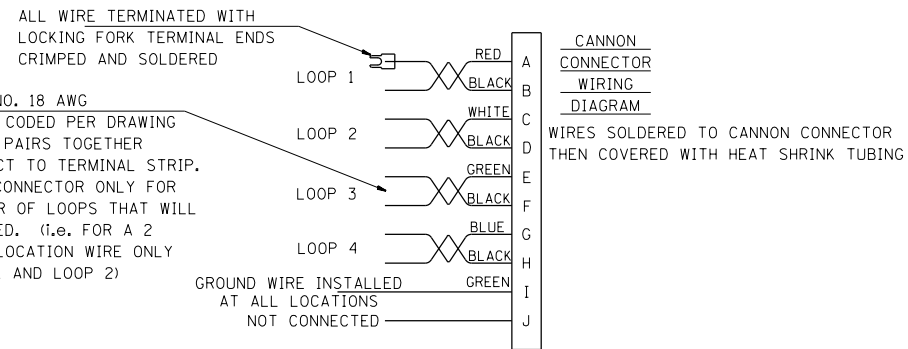
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

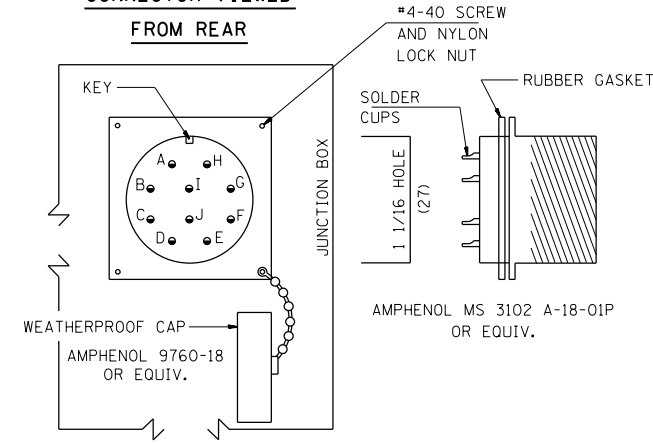
**JUNCTION BOX DETAIL FOR DETAIL A AND B**



**CANNON CONNECTOR DETAIL**



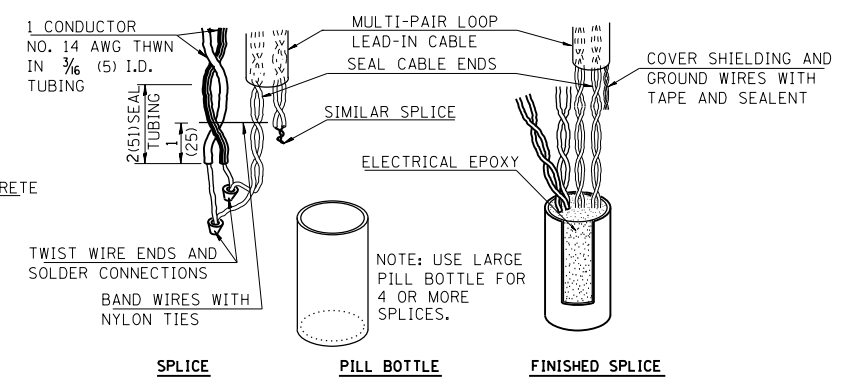
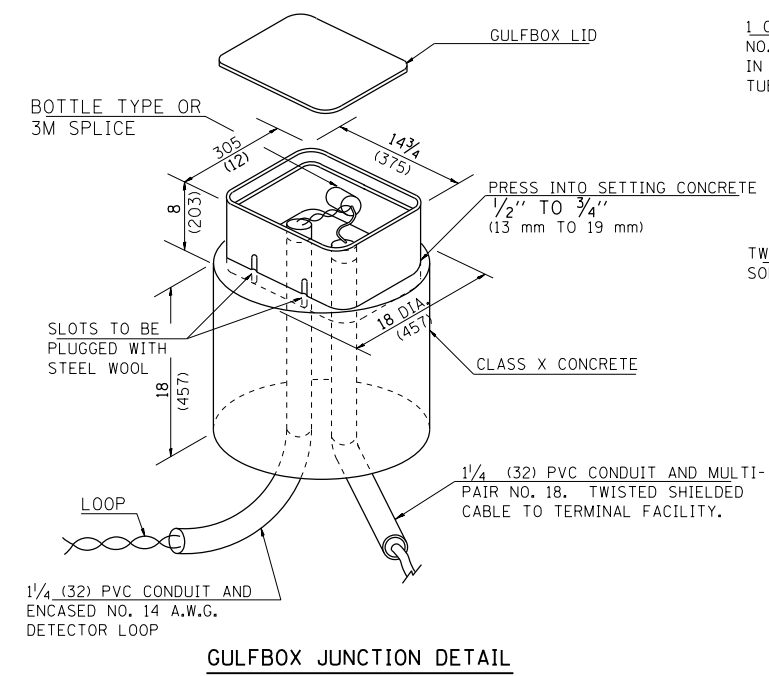
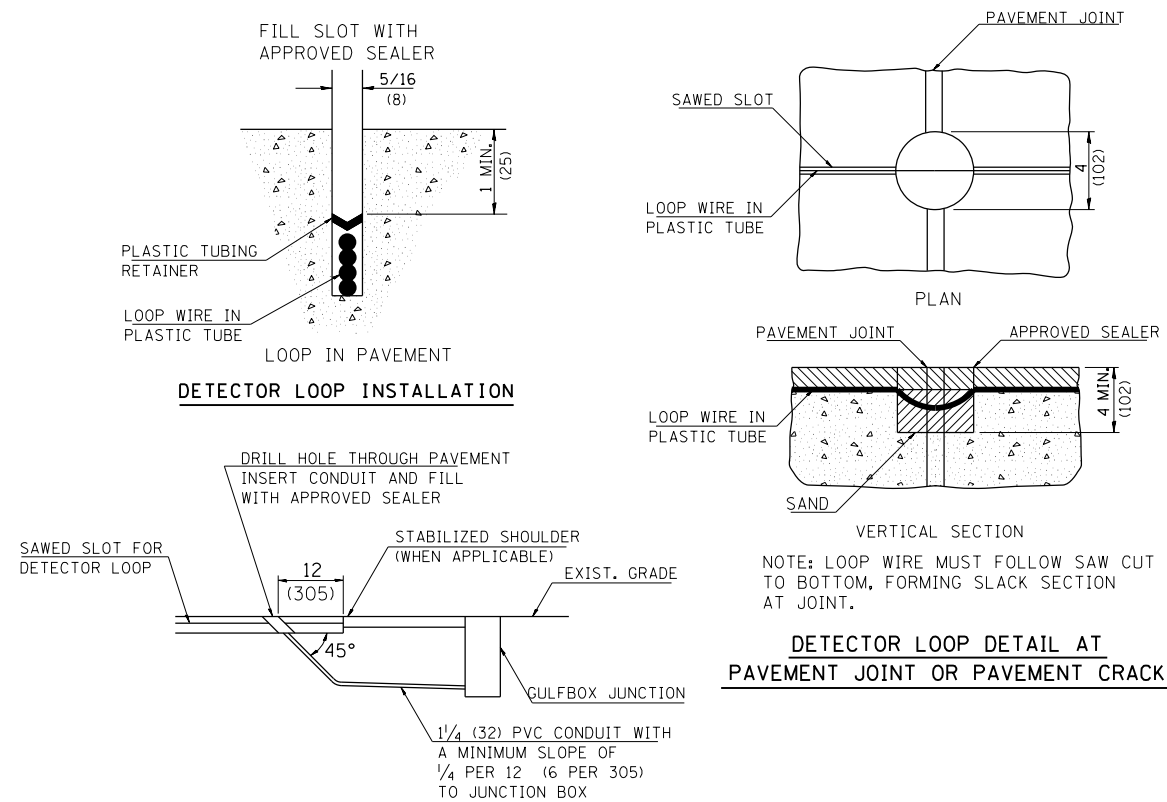
**CONNECTOR VIEWED FROM REAR**



**NOTES FOR JUNCTION BOX**

1. One lightning arrester for each loop.
2. Number of terminals on terminal strip to be determined by number of loops. Terminal strip shall be Cinch Barrier Type 140 or equivalent.
3. Junction box shall be weather proof with size determined by number of components. Junction box shall be 4 X 6 X 8 (102 x 152 x 203) Hoffman Box or equivalent.
4. Terminal with more than 4 loops will require the use of 2 cannon connectors with loops grouped by direction or as directed by the Engineer.
5. The cost of installing the terminal facility includes all vertical wiring, boxes, connectors, vertical conduit, post, ground rod, surrestors, and labor, and shall be paid for at the contract unit price for TERMINAL FACILITY - 1 Each.

**DETECTOR LOOP DETAILS; GULFBOX JUNCTION DETAIL**



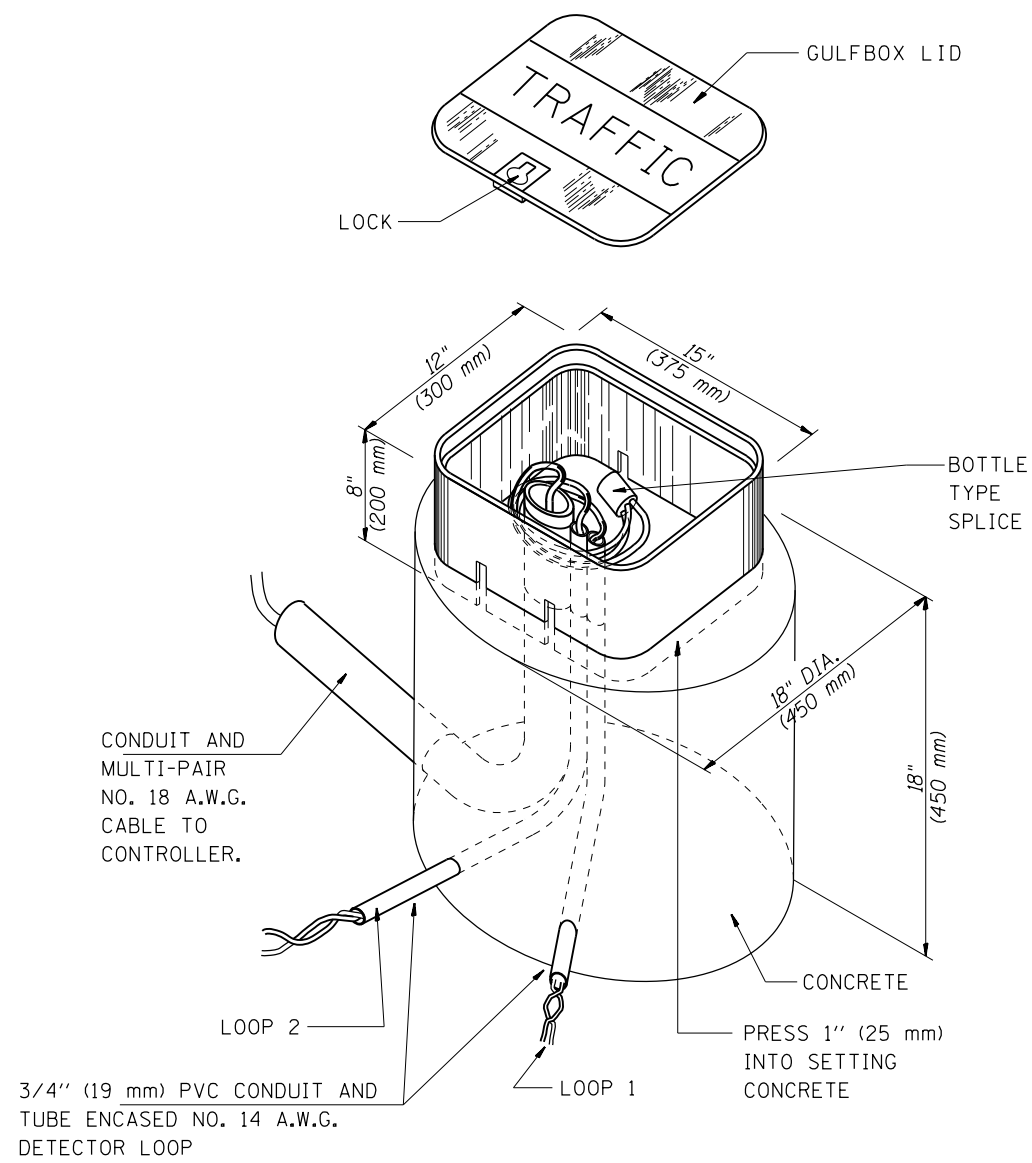
**BOTTLE SPLICE DETAIL**

All dimensions are in inches (millimeters) unless otherwise shown.

NOTE: DO NOT SCALE

FILE NAME =	USER NAME = Verenskif	DESIGNED - RT	REVISED - RT 22MAR93	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL FOR TRAFFIC COUNTERS USING TERMINAL FACILITY</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\11\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard\Detail\800-8\Int93.dgn	DRAWN	REVISD - RT 05APR93	REVISED - RT 05APR93								
Default COUNT93.DGN	PLOT SCALE = 48.000' / in.	CHECKED - CAD	REVISED - CAD 27APR93								
	PLOT DATE = 5/10/2016	DATE - 8/19/92	REVISED - CAD 21APR95								
						SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.		
						CONTRACT NO. ILLINOIS FED. AID PROJECT					





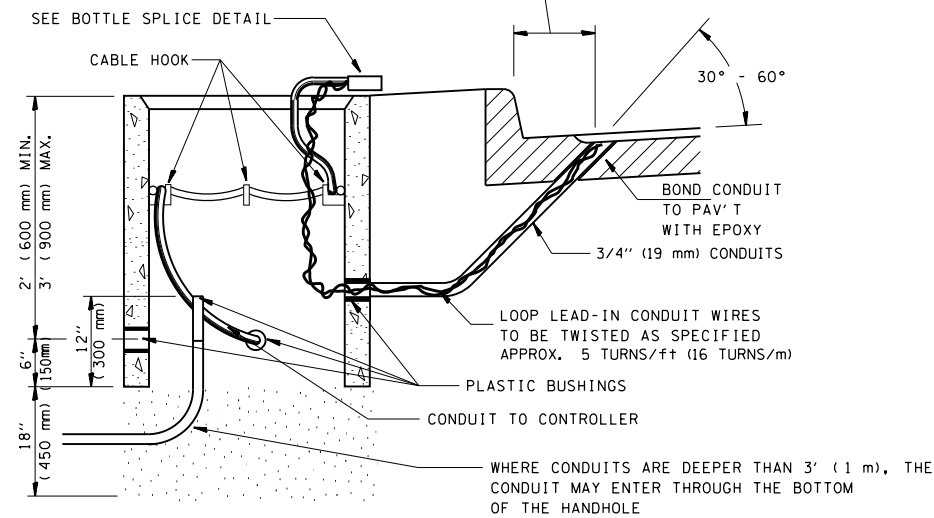
### GULFBOX JUNCTION DETAIL

(SHOWING CONNECTION OF TUBE-ENCASED DETECTOR LOOP TO MULTI-PAIR LEAD-IN CABLE)

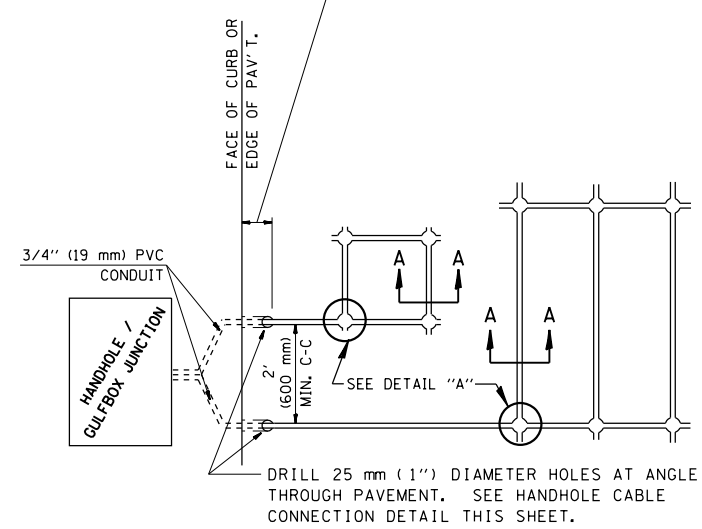
FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:      SHEET    OF    SHEETS    STA.            TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Detail\800-detloop.dgn	DRAWN	CHECKED -	REVISED -			CONTRACT NO.					
Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
	PLOT DATE = 5/10/2016										

LENGTH OF SLACK FOR LOOP LEAD-INS SHALL PROVIDE FOR MAKING THE SPLICE ON TOP OF THE HANDHOLE AND ONE COMPLETE LOOP OF THE INTERIOR OF THE HANDHOLE. THE SPLICE SHALL BE SUPPORTED BY A CABLE HOOK.

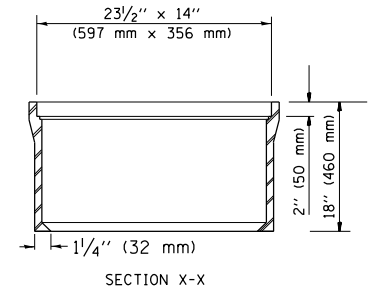
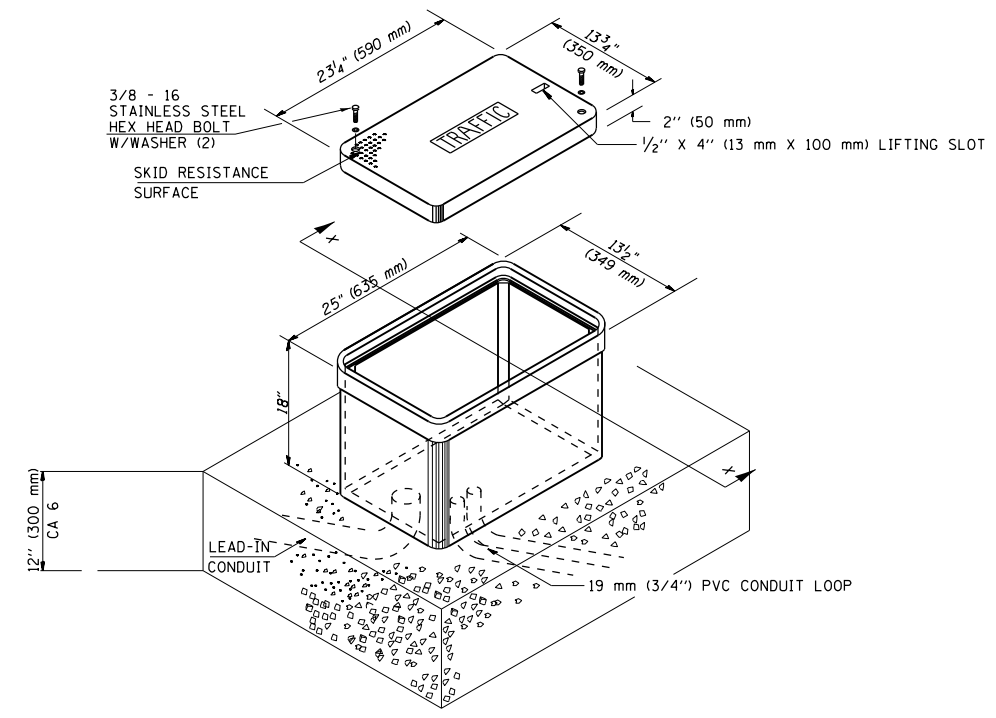
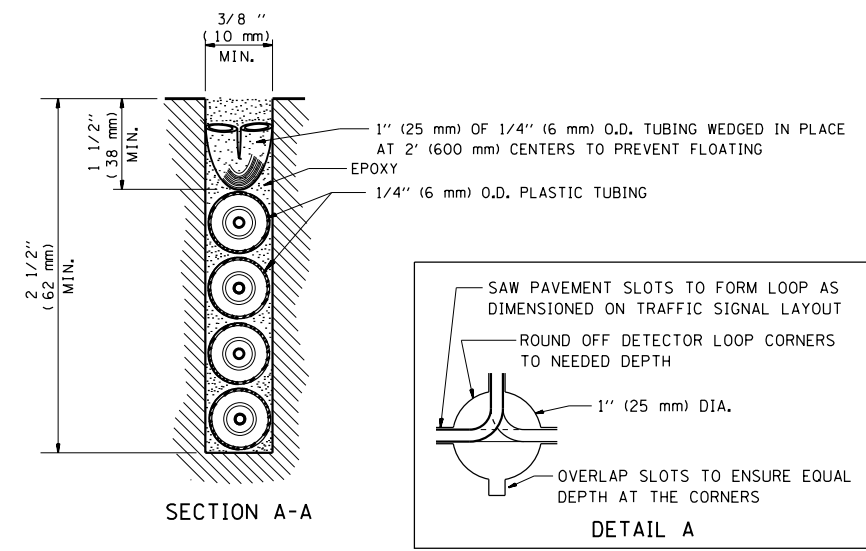
THE LOOP LEAD-IN CONDUIT HOLES SHALL BE PLACED AS CLOSE TO THE CURB AS POSSIBLE TO PERMIT SAW OVERLAP WITHOUT SCARRING FACE OF CURB.  
IN NON-CURB LOCATIONS THE DISTANCE SHALL NOT BE LESS THAN 6" (150 mm).



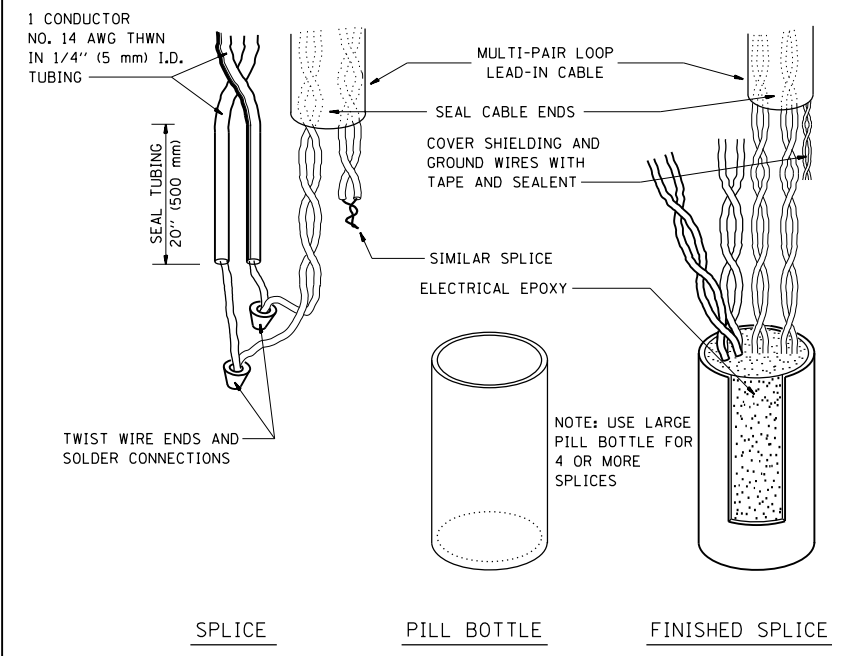
HANDHOLE CABLE CONNECTIONS



PAVEMENT SAWING DETAIL FOR TUBE ENCASED DETECTOR LOOP WIRE



GULFBOX JUNCTION (SPECIAL)



BOTTLE SPLICE DETAIL

FILE NAME =	USER NAME = Verenskif	DESIGNED - WDC	REVISED - 12/02/10
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 6\Standards\Standard\Details\800-640\Loop.dgn		CHECKED - WDC	REVISED -
Default	PLOT SCALE = 48.0000' / in.	DATE - 5/02/96	REVISED -
DETLOOP.DGN	PLOT DATE = 5/10/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

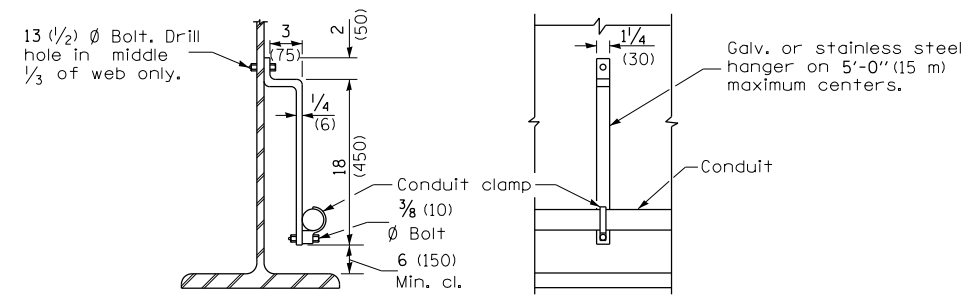
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

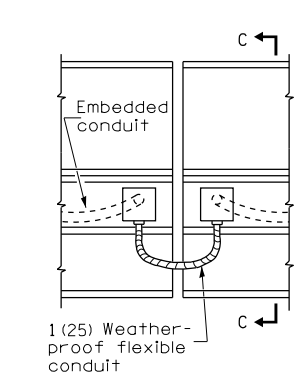




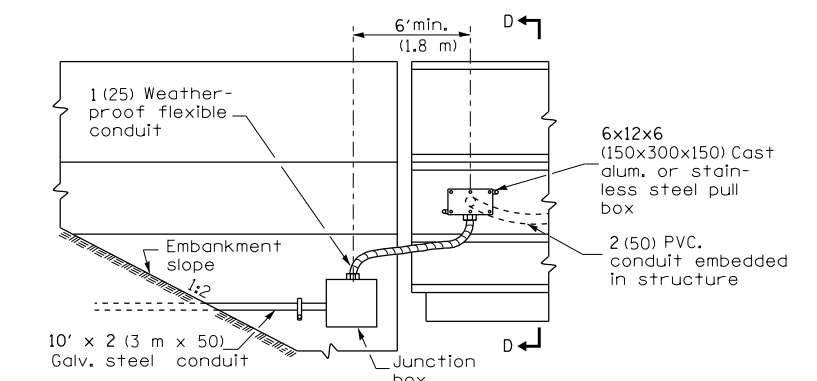




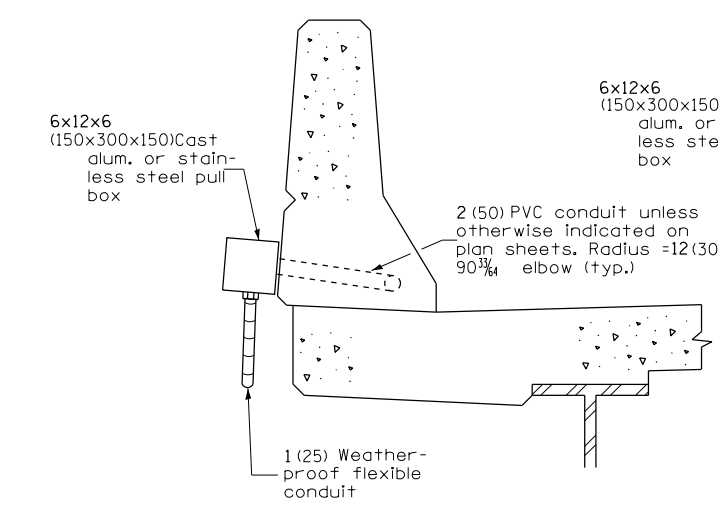
**CONDUIT SUPPORT BRACKET**



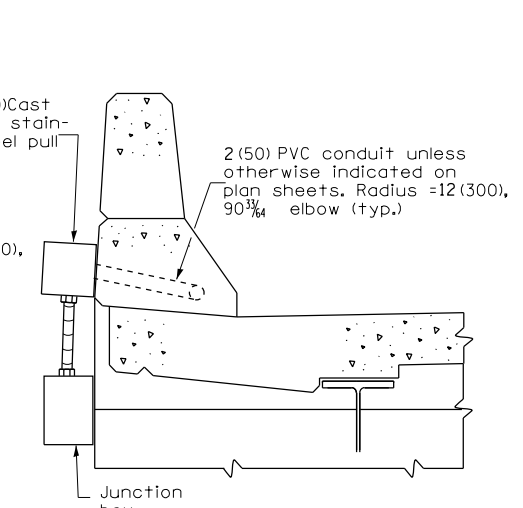
**ELEVATION AT EXPANSION JOINT**



**SECTION AT ABUTMENTS**  
(External conduit)



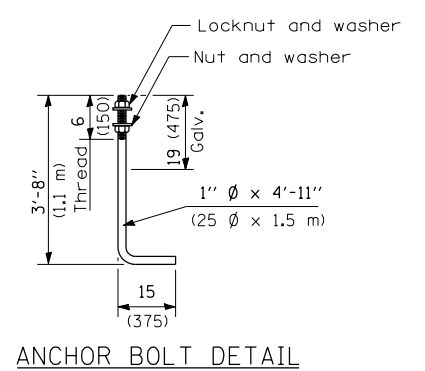
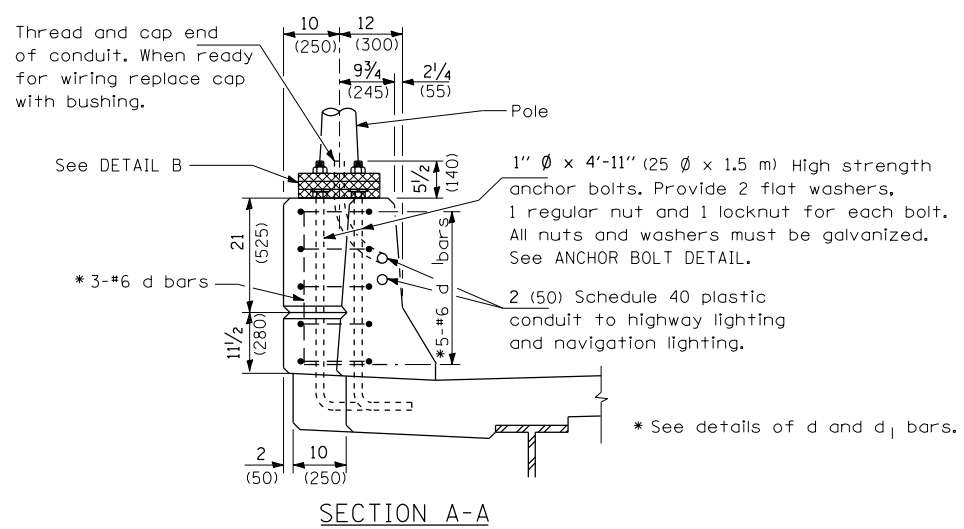
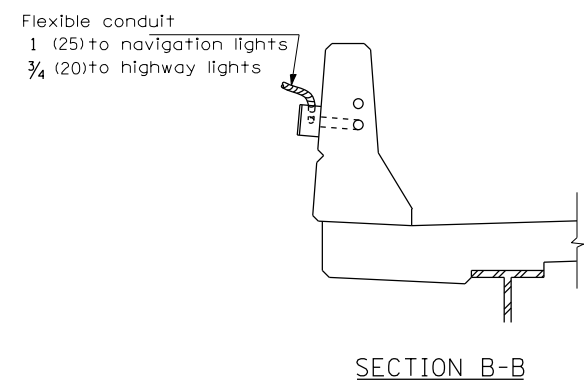
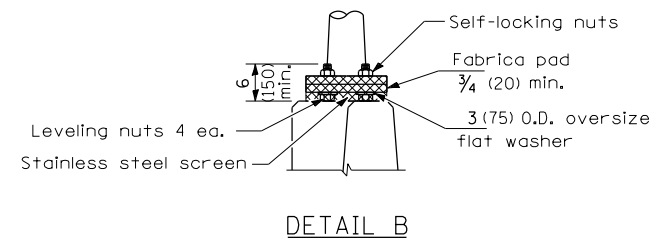
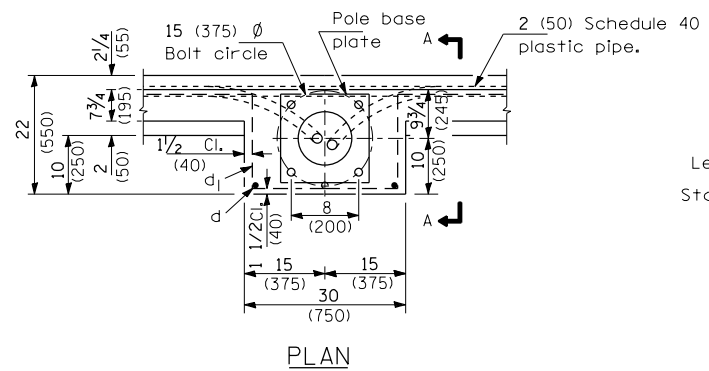
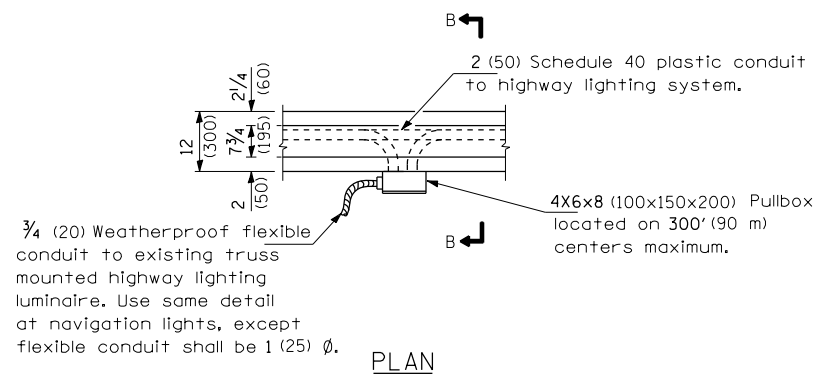
**SECTION C-C**



**SECTION D-D**

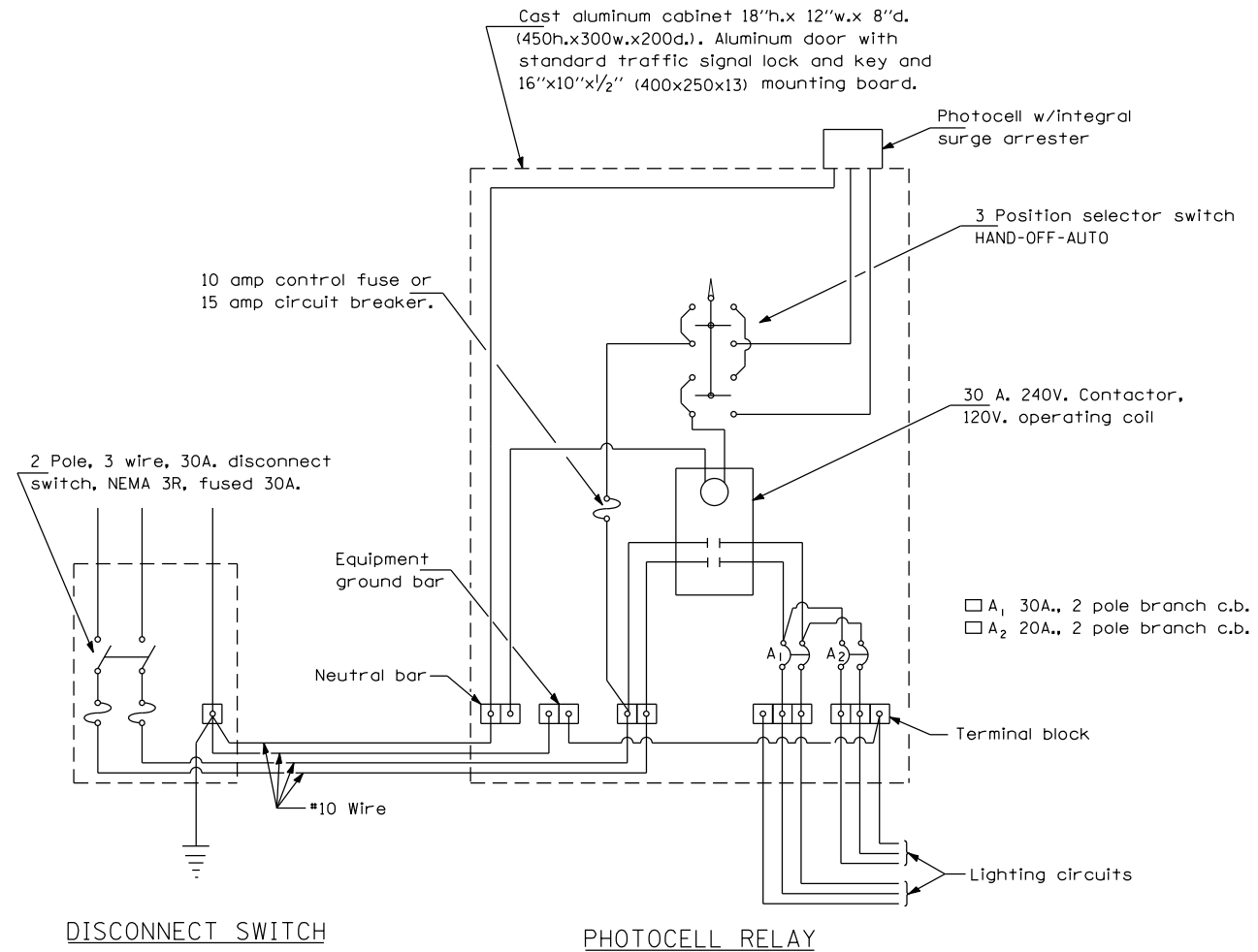
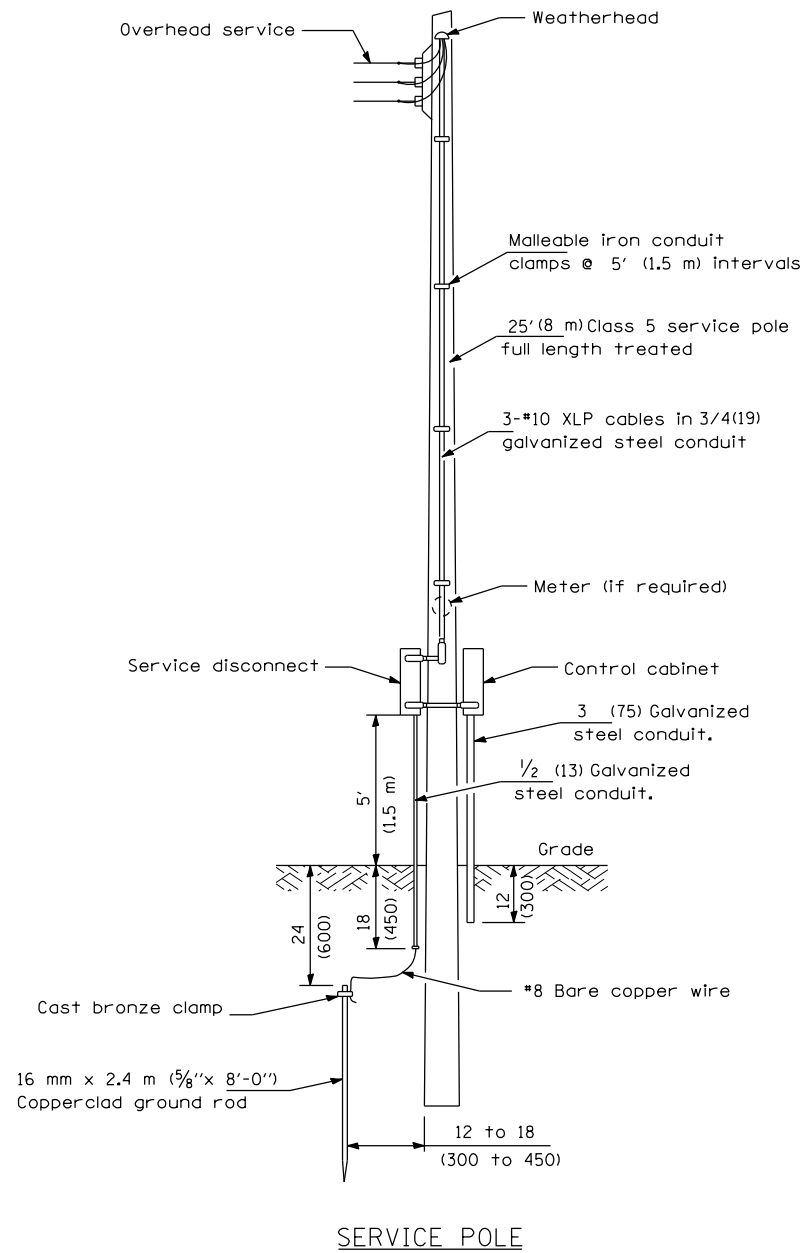
All dimensions are in inches unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\IL\084EBID\INTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\084EBID\084EBID.dgn	PLotted	CHECKED -	REVISED -		SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.
Default:JLGT001.DGN	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		CONTRACT NO.					
	PLOT DATE = 5/10/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT					



All dimensions are in inches (millimeters) unless noted.

FILE NAME = JLG002.DGN	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONDUIT IN PARAPET DETAILS</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO.	
		DATE - 6/19/98	REVISED -		ILLINOIS FED. AID PROJECT								



GENERAL NOTES

All equipment shall be U.L. Listed.  
 All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 6\Standards\Standard Details\800-D&B\03.dgn		CHECKED -	REVISED -
JLGT003.DGN		DATE - 3/11/96	REVISED -

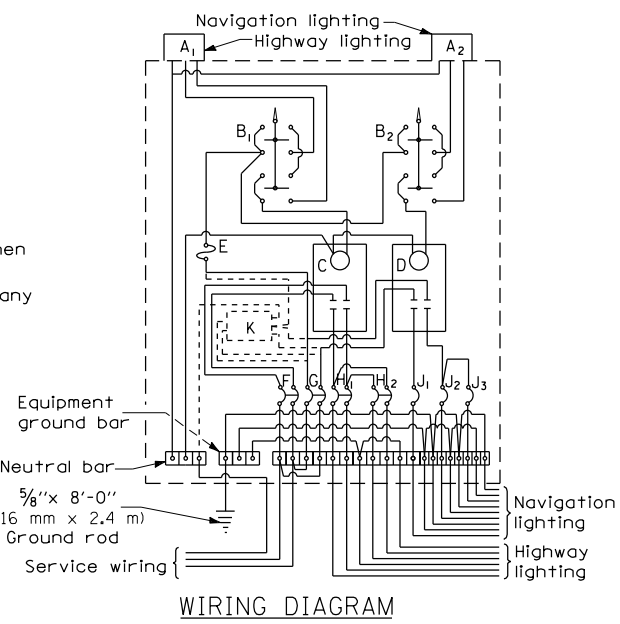
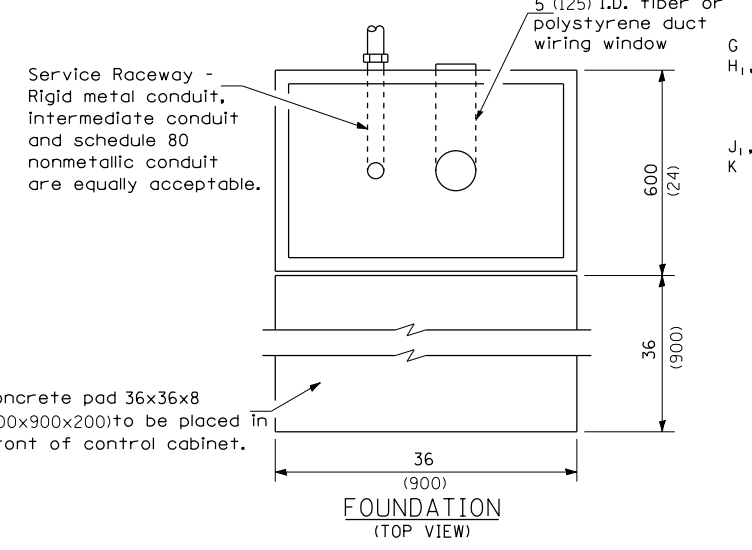
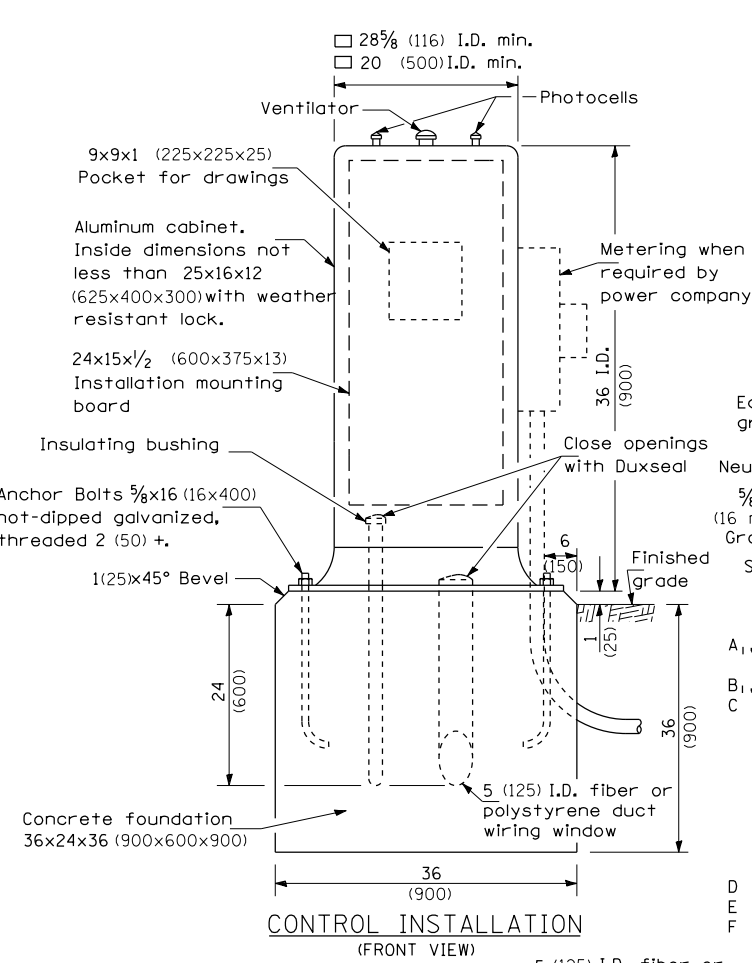
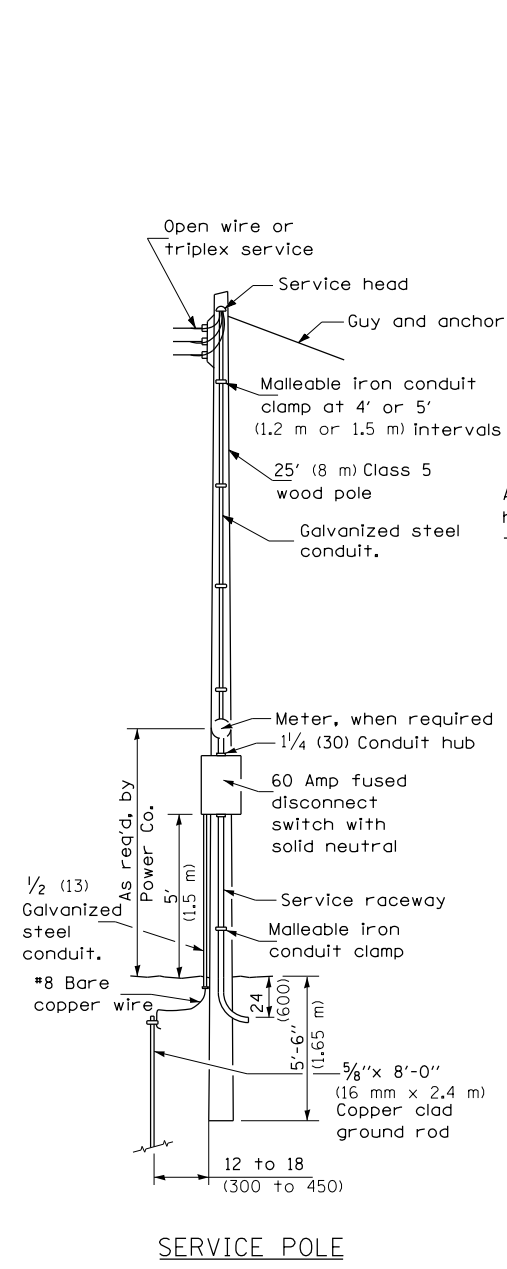
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONTROL INSTALLATION SERVICE POLE MOUNTED  
 120/240V., 1 PHASE, 3 WIRE SERVICE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





- WIRING DIAGRAM**
- A<sub>1</sub>, A<sub>2</sub> Photocells w/Integral surge arrestors
  - B<sub>1</sub>, B<sub>2</sub> Selector switch
  - C Contactor
    - 60A., 2 pole, 240V.
    - 60A., 2 pole, 480V.
    - 100A., 2 pole, 240V.
    - 100A., 2 pole, 480V.
    - 150A., 2 pole, 240V.
    - 150A., 2 pole, 480V.
    - 200A., 2 pole, 240V.
    - 200A., 2 pole, 480V.
  - D Contactor, 30A., 2 pole, 240V.
  - E 10A., Control fuse or 15A. ckt. breaker
  - F
    - 60A., 2 pole, main breaker
    - 100A., 2 pole, main breaker
    - 150A., 2 pole, main breaker
    - 200A., 2 pole, main breaker
  - G 30A., 2 pole, main breaker
  - H<sub>1</sub>, H<sub>2</sub>
    - 20A., 2 pole, branch c.b.'s. ( ) required
    - 30A., 2 pole, branch c.b.'s. ( ) required
    - 40A., 2 pole, branch c.b.'s. ( ) required
    - 50A., 2 pole, branch c.b.'s. ( ) required
  - J<sub>1</sub>, J<sub>2</sub>, J<sub>3</sub> 20A., 1 pole, branch c.b.'s.
  - K Transformer, single phase, ( ) KVA, 480V. primary, 120/240V., 1Ø, 3W. secondary, required w/480V. service wiring to be revised as shown dotted.

- 240 V. SERVICE
- 480 V. SERVICE

**GENERAL NOTES**

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Label equipment ground and neutral.

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 30' (9 m) from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 150' (46 m). Total aerial and underground service between the control installation and primary transformer shall not exceed 250' (76 m).

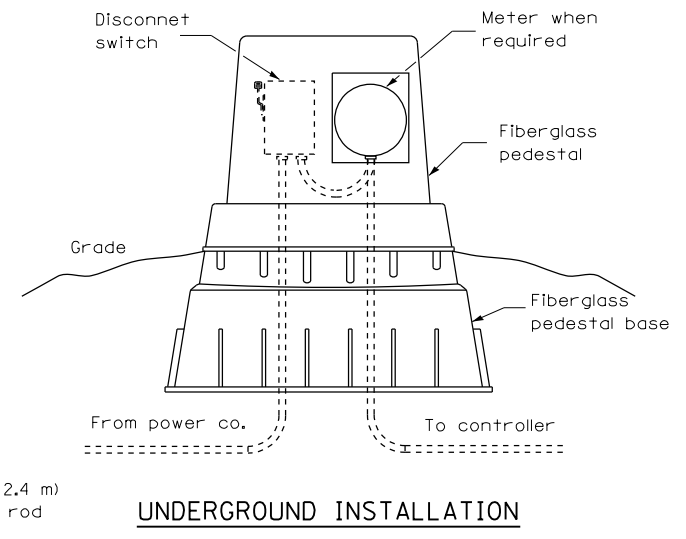
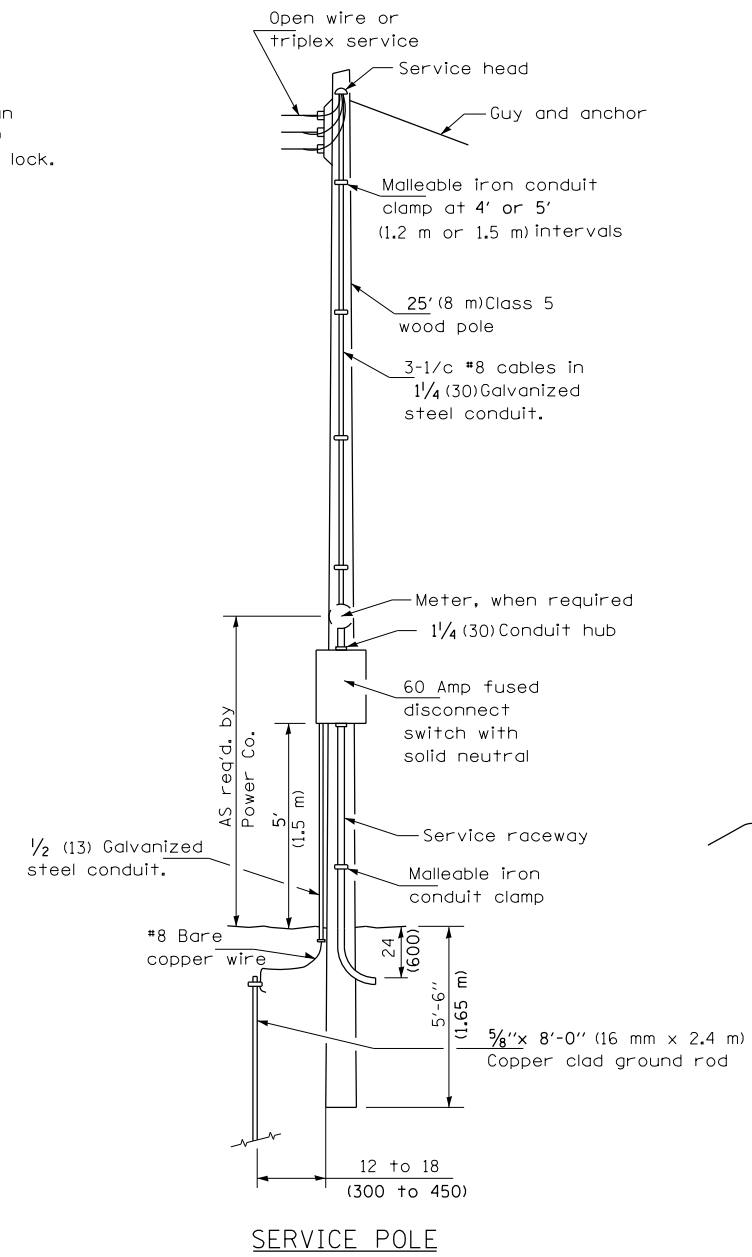
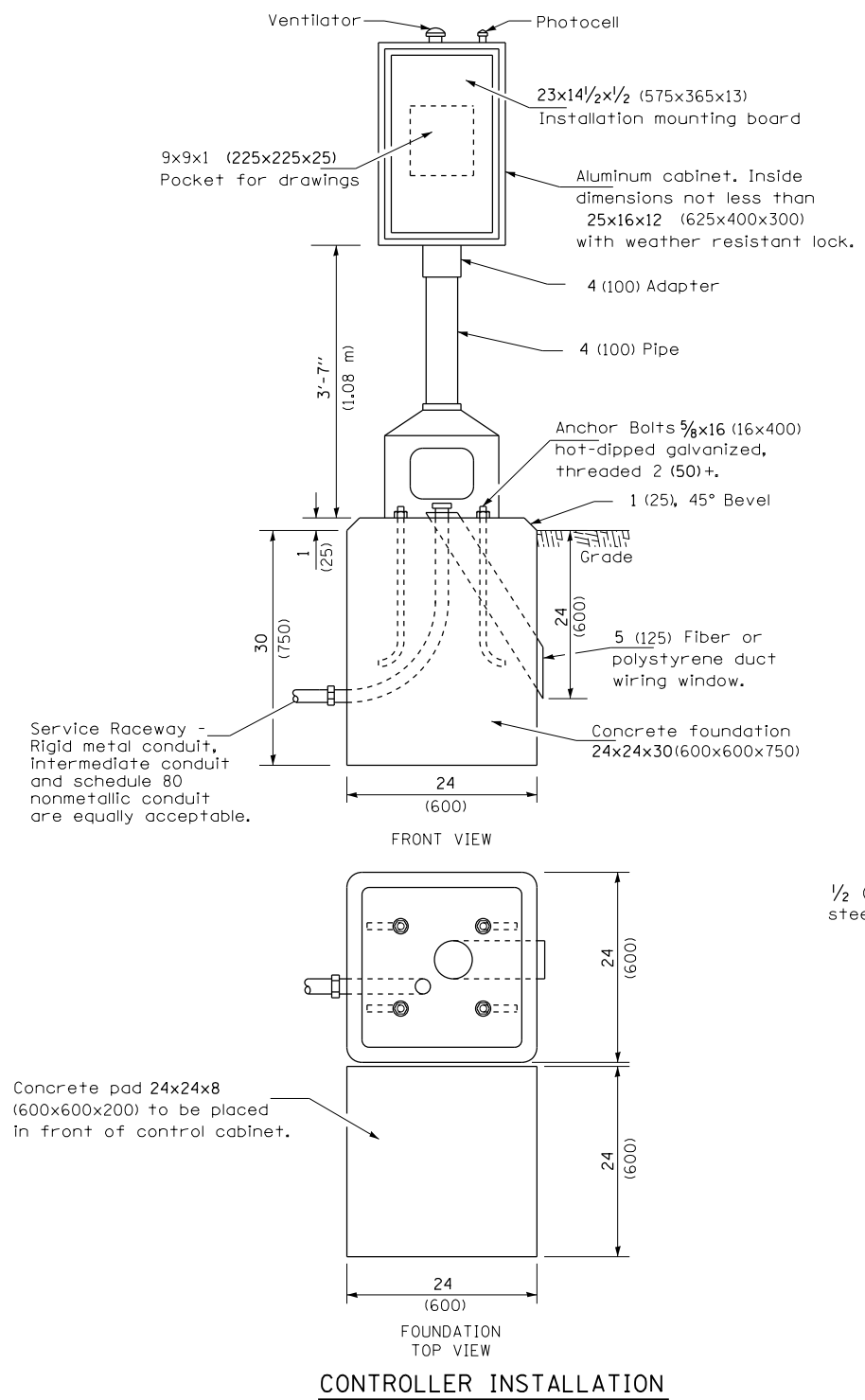
Raceways shall terminate 3 (75) above top of concrete foundation.

For 480 V. systems, a 480/120 V. control transformer will be required.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONTROL INSTALLATION DUAL</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default JLGT004.DGN	pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\084EBIDINTEG\JLGT004.dgn	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO.	
	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = 5/10/2016												





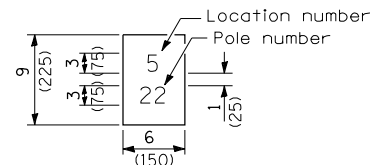
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = Verenskifa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONTROL INSTALLATION TYPE CB-RCS-60</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\l\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Standards\Standard\Drawings\800-jlgt006.dgn	DRW	CHECKED -	REVISED -						CONTRACT NO.				
DefaultJLGT006.DGN	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 5/10/2016												



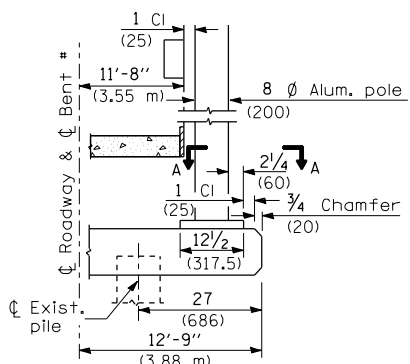
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 3/4" (8.3) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional 1/4 to 3/8 turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 80 mph (128.72 km) wind loading and 90 lbs (40.82 kg), 4.0 sq ft (0.37 m<sup>2</sup>) E.P.A. luminaire.

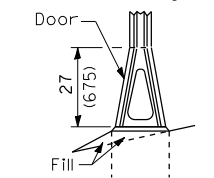


The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 3 (75) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

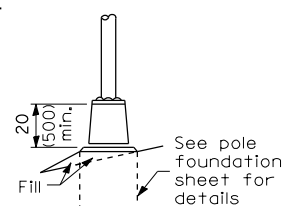
The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximately 7 (180) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.



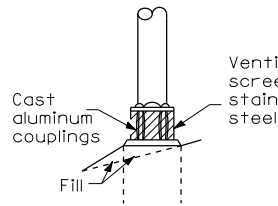
**BENT #**  
(Looking )



**STAINLESS STEEL FLAIR BASE**

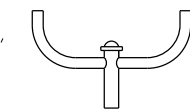


**TRANSFORMER BASE**

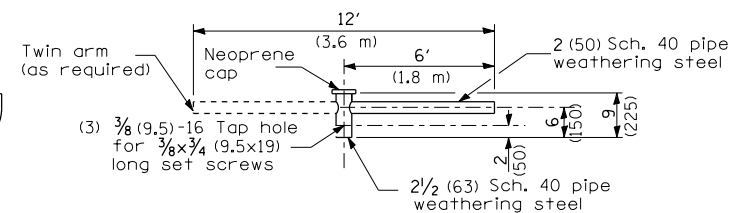


**BREAKAWAY COUPLING**

**FRANGIBLE**

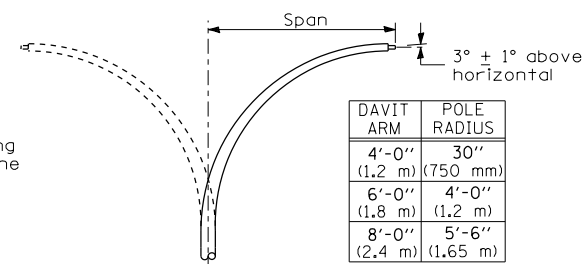


**TWIN TENON**



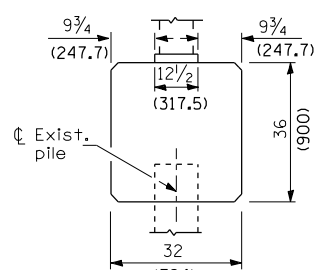
**TENON MOUNT BRACKET ARM**

NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.

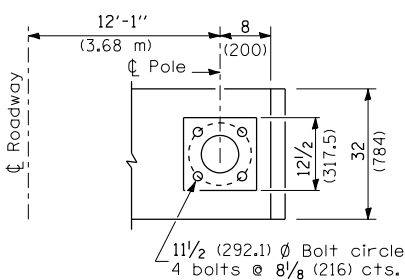


**DAVIT ARM** (and or)

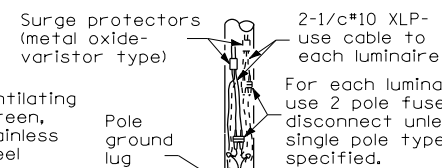
**DAVIT ARM-TWIN**



**BRIDGE PIER MOUNT**



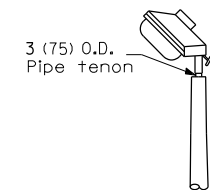
**SECTION A-A**



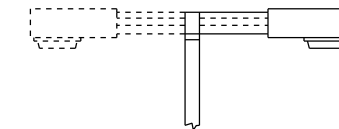
**ANCHOR**

**METAL** OR  **CONCRETE**

Details for underground distribution if required

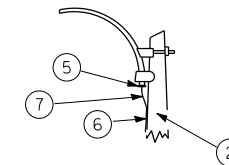


**TENON**

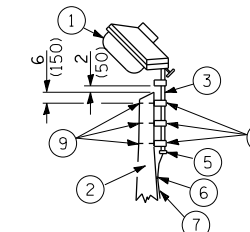


**SHORT BRACKET**

**SHORT BRACKET - TWIN**

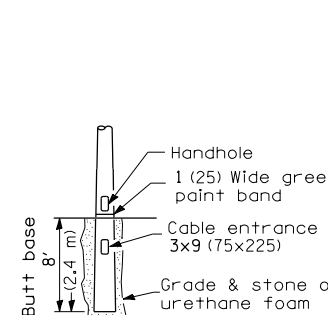


**MAST ARM**

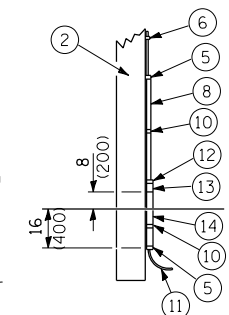


**TENON**

- 1 Luminaire
- 2 Wood pole, class 3 or better
- 3 2 1/2 (63) Galv. steel conduit
- 4 Single offset pole band
- 5 Conduit bushing
- 6 Cable clamps on 24 (600) centers
- 7 2/c #12 Type use cable
- 8 1 (25) Galv. steel conduit 10' (3.0 m) in length
- 9 5/8 (16) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- 10 Conduit clamps on 36 (900) centers
- 11 Unit duct
- 12 Threaded reducer
- 13 "C" Condulet, threaded
- 14 1 1/2 (40) Galv. steel conduit for 1 unit duct or 3 (75) galv. steel conduit for 2 or 3 unit ducts.



**BUTT BASE**



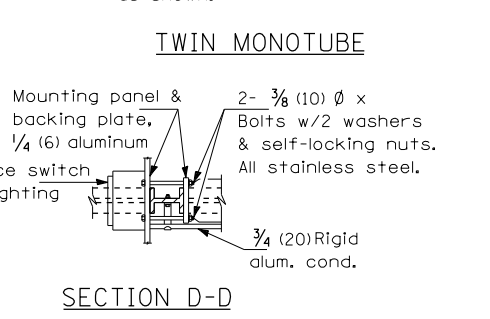
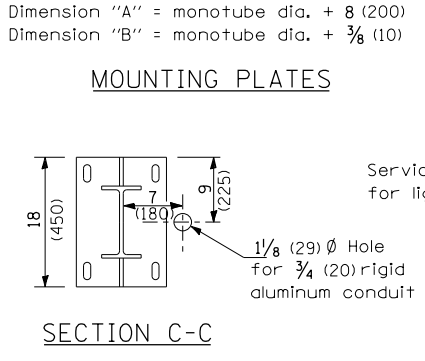
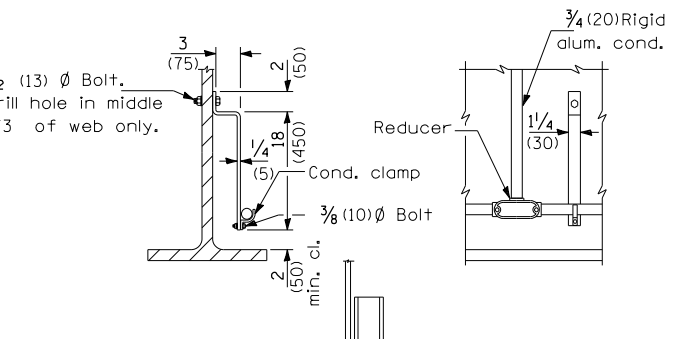
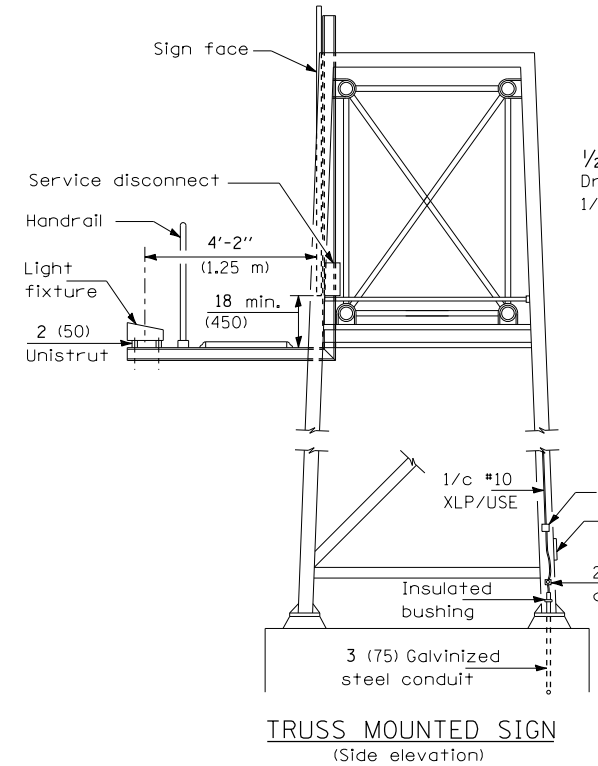
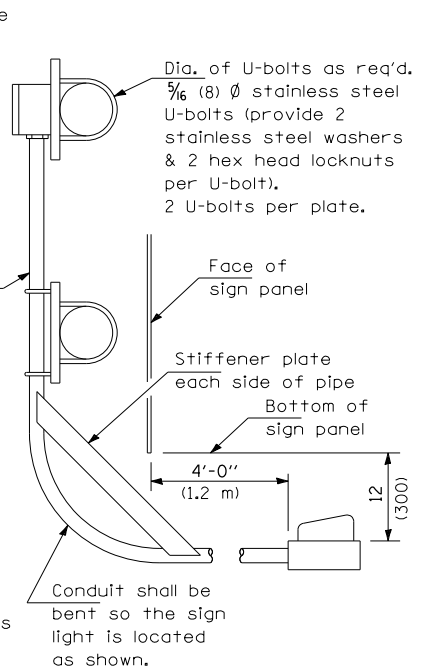
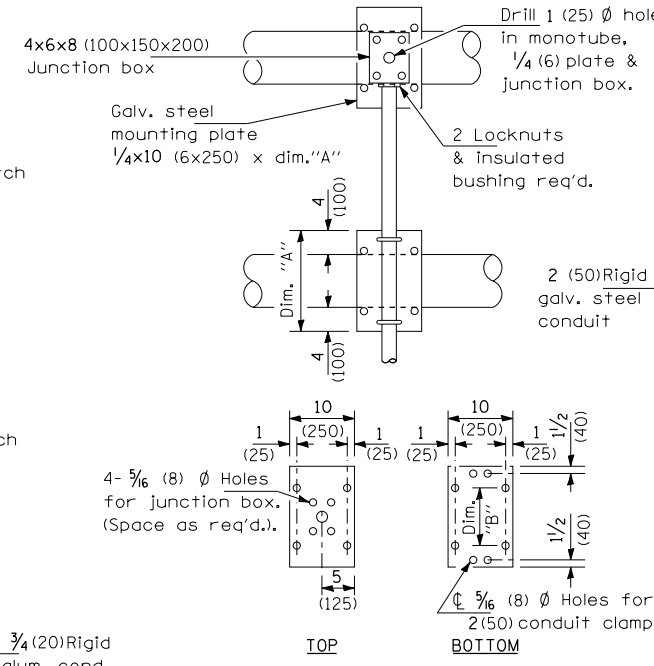
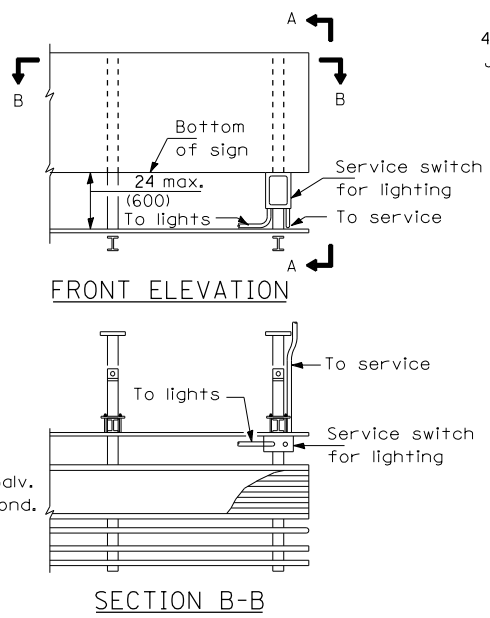
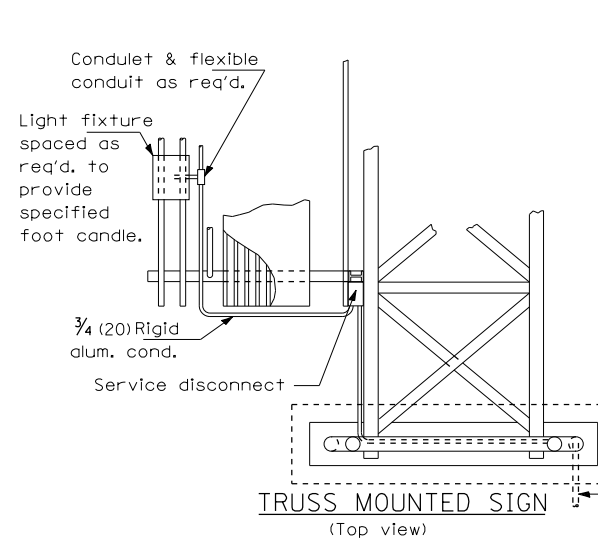
**POLE, WOOD**

POLE LENGTH	DEPTH IN GROUND
65' (19.8 m)	12' (3.6 m)
60' (18.0 m)	10' (3.0 m)
55' (16.8 m)	9' (2.7 m)
50' (16.0 m)	8' (2.4 m)
45' (13.7 m)	7' (2.1 m)
40' (12.0 m)	6.5' (2.0 m)
35' (10.7 m)	6' (1.8 m)
30' (9.0 m)	5.5' (1.7 m)

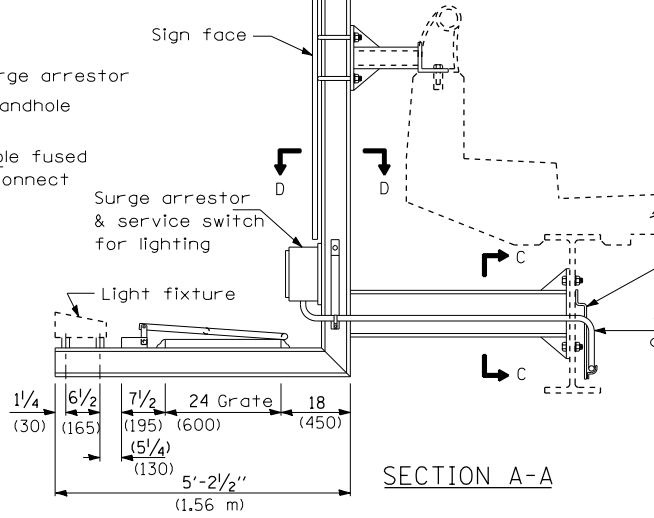
added short bracket - twin  
and edited to section 1085.05  
10/30/97 hec

All dimensions are in inches (millimeters) unless otherwise shown.





TRUSS MOUNTED SIGN (Side elevation)



SECTION A-A

GENERAL NOTES

All sign lighting fixtures shall have a minimum of 3 mounting points.  
All mounting hardware shall be stainless steel.

All dimensions are in inches (millimeters) unless otherwise shown.

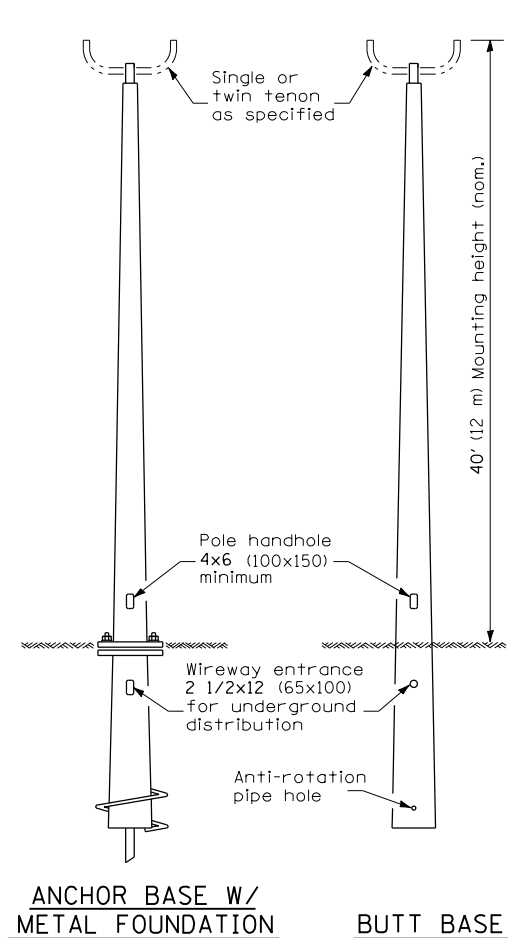
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

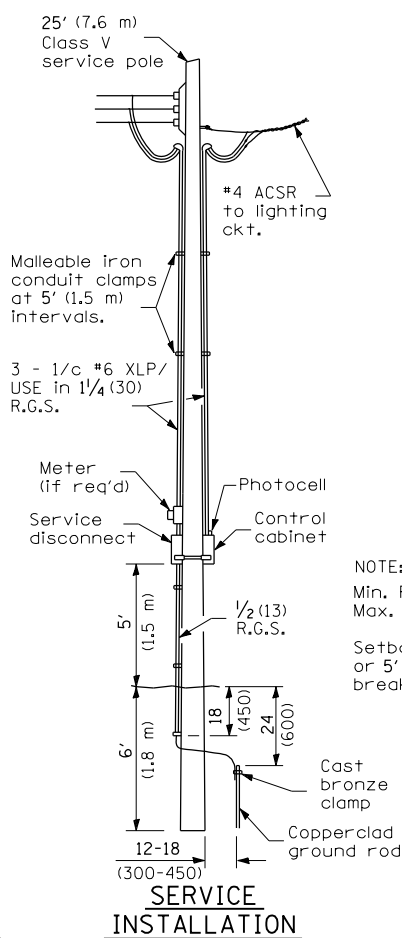
SIGN LIGHTING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

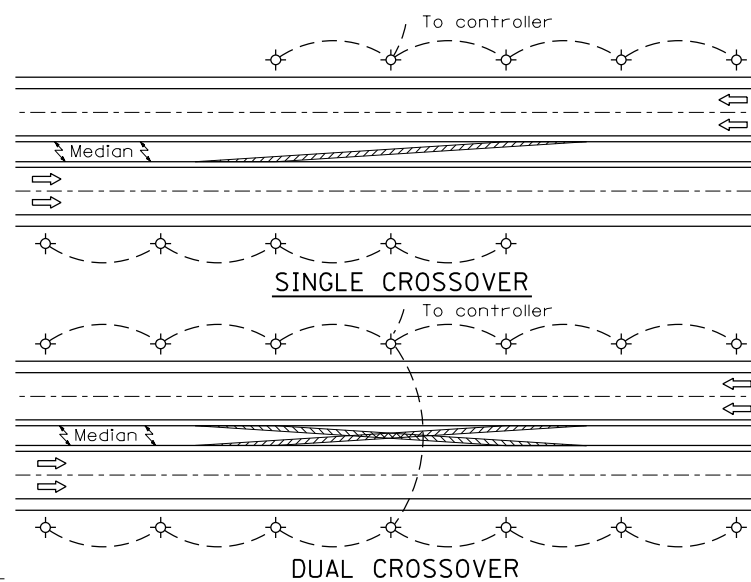
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**POLE, FIBERGLASS  
BREAKAWAY TYPE**



**SERVICE  
INSTALLATION**



**NOTE:**  
Min. Pole spacing 200' (60 m)  
Max. Pole spacing 250' (75 m)  
  
Setback shall be min. (30') 9 m  
or 5' (1.5 m) back of ditch, unless  
breakaway type pole is used.

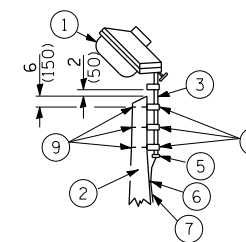
- ① Luminaire
- ② Wood pole, class 3 or better
- ③ 2 1/2 (63) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 24 (600) centers
- ⑦ 2/c #12 Type USE cable
- ⑧ 1 (25) Galv. steel conduit 10' (3.0 m) in length

**NOTE:**

Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.

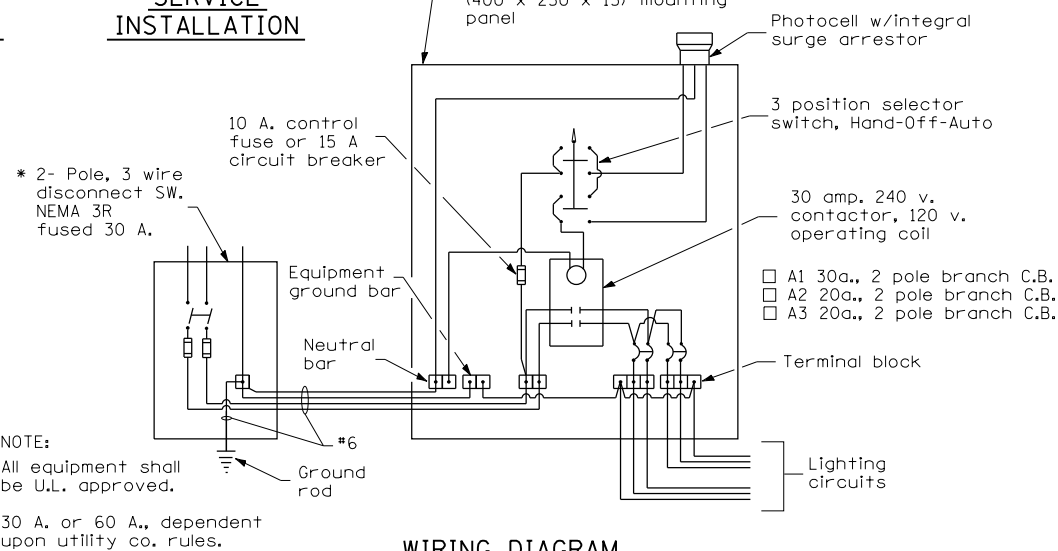
Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.

Connect luminaire equipment ground to ACSR messenger.



- ⑨ 5/8 (16) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 36 (900) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 1 1/2 (40) Galv. steel conduit for 1 unit duct or 3 (75) galv. steel conduit for 2 or 3 unit ducts.

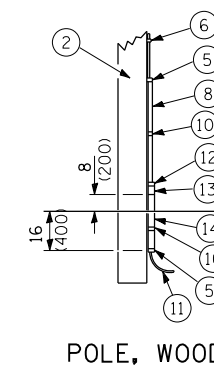
Cast aluminum cabinet  
18 H. x 12 W. x 8 D.  
(450 H. x 300 W. x 200 D.)  
Aluminum door with  
standard traffic signal  
lock & key and 16x10x 1/2  
(400 x 250 x 13) mounting  
panel



**NOTE:**  
All equipment shall  
be U.L. approved.

\* 30 A. or 60 A., dependent  
upon utility co. rules.

**WIRING DIAGRAM**



**POLE, WOOD**

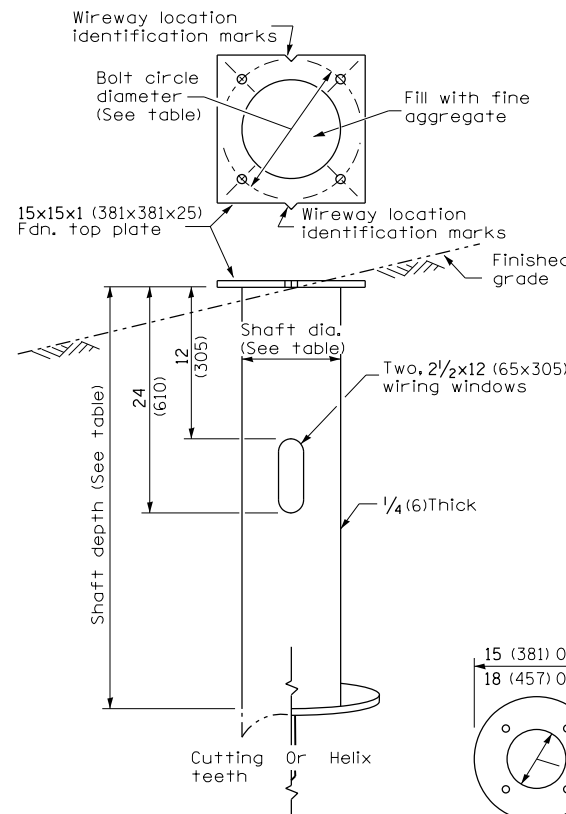
POLE LENGTH	DEPTH IN GROUND
65' (19.8 m)	12' (3.6 m)
60' (18.0 m)	10' (3.0 m)
55' (16.8 m)	9' (2.7 m)
50' (16.0 m)	8' (2.4 m)
45' (13.7 m)	7' (2.1 m)
40' (12.0 m)	6.5' (2.0 m)
35' (10.7 m)	6' (1.8 m)
30' (9.0 m)	5.5' (1.7 m)

All dimensions are in inches (millimeters)  
unless otherwise shown.

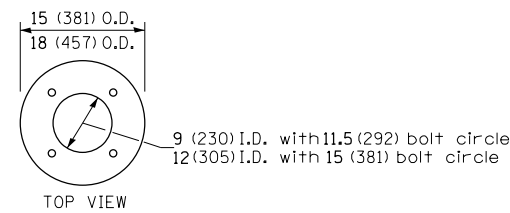


LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION		CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH *
30' ≤ (9.1 m)	11 1/2" (292 mm)	8 5/8" (220 mm)	6'-0" (1.83 m)	24" (610 mm)	5'-0" (1.52 m)	4'-9" (1.45 m)
31'-35' (9.4 m - 10.7 m)	11 1/2" (292 mm)	8 5/8" (220 mm)	6'-0" (1.83 m)	24" (610 mm)	5'-6" (1.67 m)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15" (381 mm)	8 5/8" (220 mm)	6'-0" ** (1.83 m)	24" (610 mm)	6'-0" (1.83 m)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15" (381 mm)	8 5/8" (220 mm)	6'-0" ** (1.83 m)	24" (610 mm)	6'-6" (1.98 m)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15" (381 mm)	8 5/8" (220 mm)	8'-0" (2.44 m)	24" (610 mm)	7'-0" (2.13 m)	6'-9" (2.00 m)

\* Length does not include 4(100)hook  
 \*\* 8 5/8" x 8'-0" (220 mm x 2.44 m) for Twin luminaires



**STEEL FOUNDATION**



**RING PLATE DETAIL**

(When rock is encountered and foundation is shallower)

**Notes:**

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.

**Notes:**

Wireway may be on front, back, or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

Top of schedule 40 PVC 5(125) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.

3 (75) Min. concrete cover on all steel

1 (25) Ø Steel anchor rod with 230 (9) of threads. See table for the required bolt circle diameter.

3/4 (19) - 45° Bevel

Finished grade

Anchor rod shall extend through nut 3/8 to 1(10 to 25). For barrier or foundations located behind guardrail, use self-locking nut and flat washer. Do not use lock washer. Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 5 ft. (1.52m) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

\*\*\* If the required anchor rod length above top of foundation is less than 3(75), anchor rods may be lowered below 6(150).

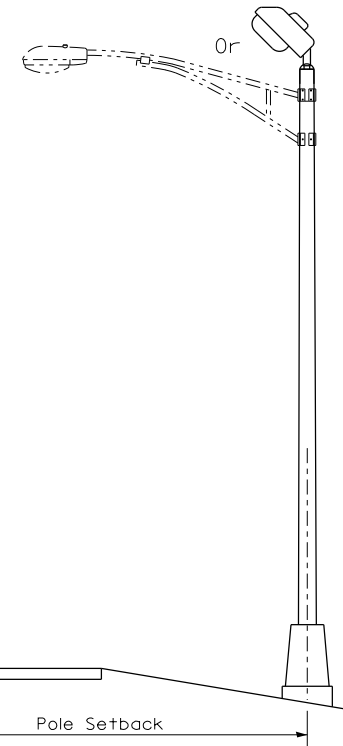
5 (125) I.D. P.V.C. wireway window. Fill with fine aggregate

Bronze ground clamp

5/8" x 10' (16 mm x 3 m) Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

See Ring Plate Detail

**CONCRETE FOUNDATION**



**Pole Foundation Setback:**

For horizontal mounted luminaires, setback shall be a minimum of 20' (6.1 m) from edge of pavement.

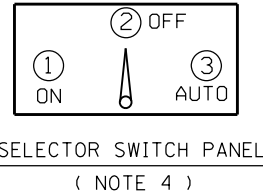
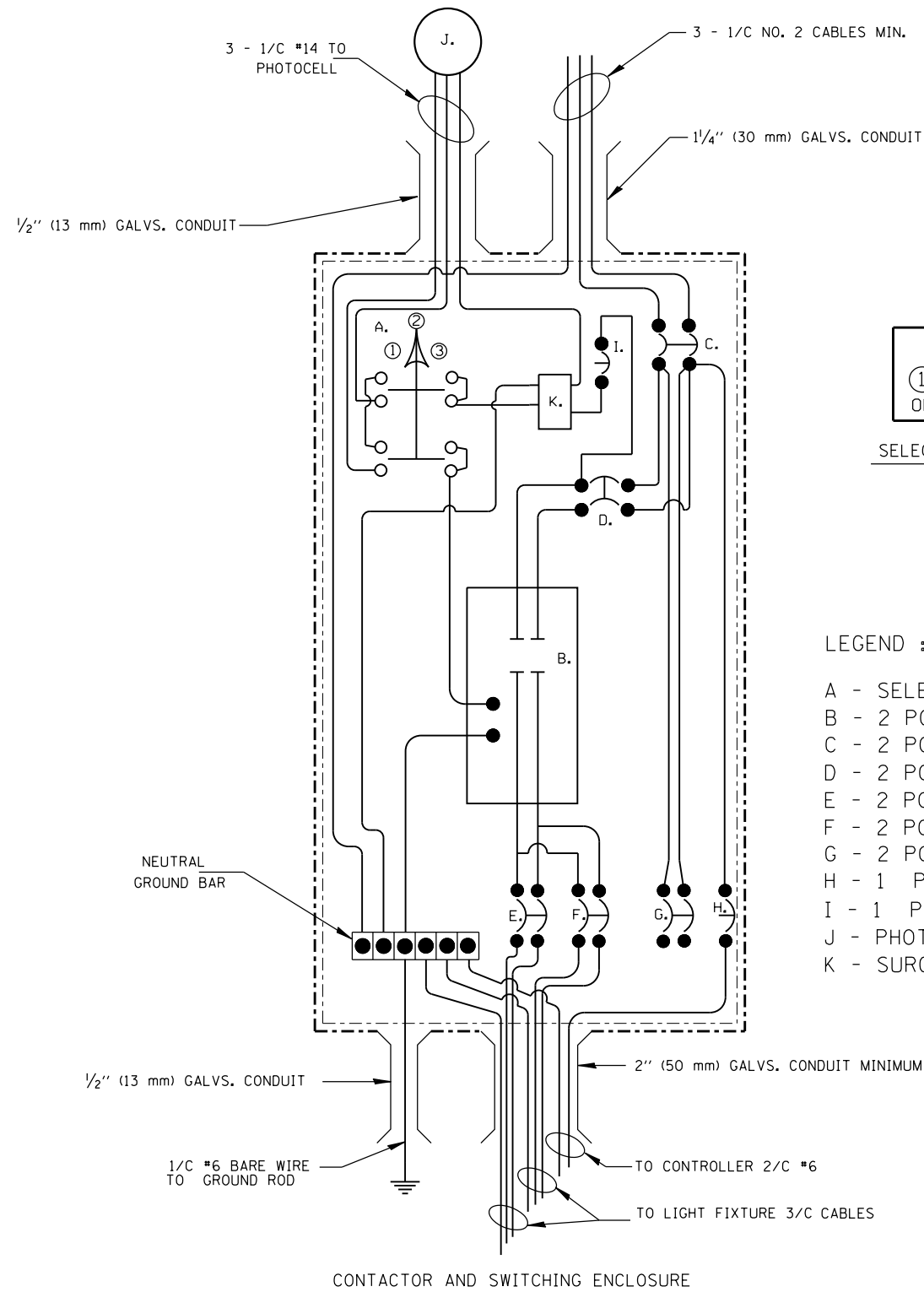
For vertical mount luminaires, setback shall be a minimum of 30' (9 m) from edge of pavement. Poles shall be located 5' (1.5 m) behind guardrail or other protective barriers, or as directed by the Engineer.

10/7/02 Bridge Office depth calc.

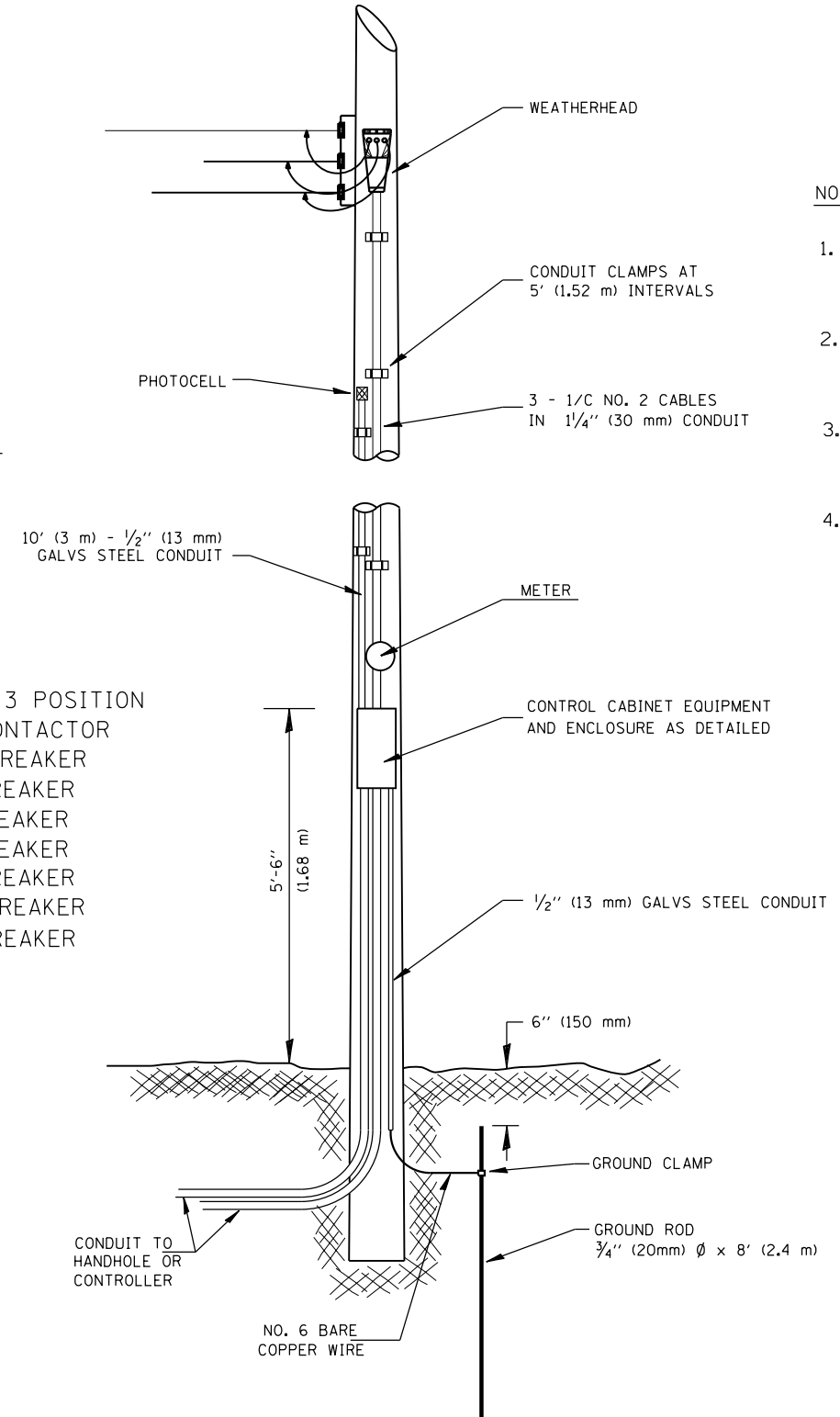
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY ROADWAY LIGHTING</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SERVICE INSTALLATION TYPE A, MODIFIED

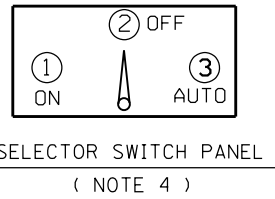
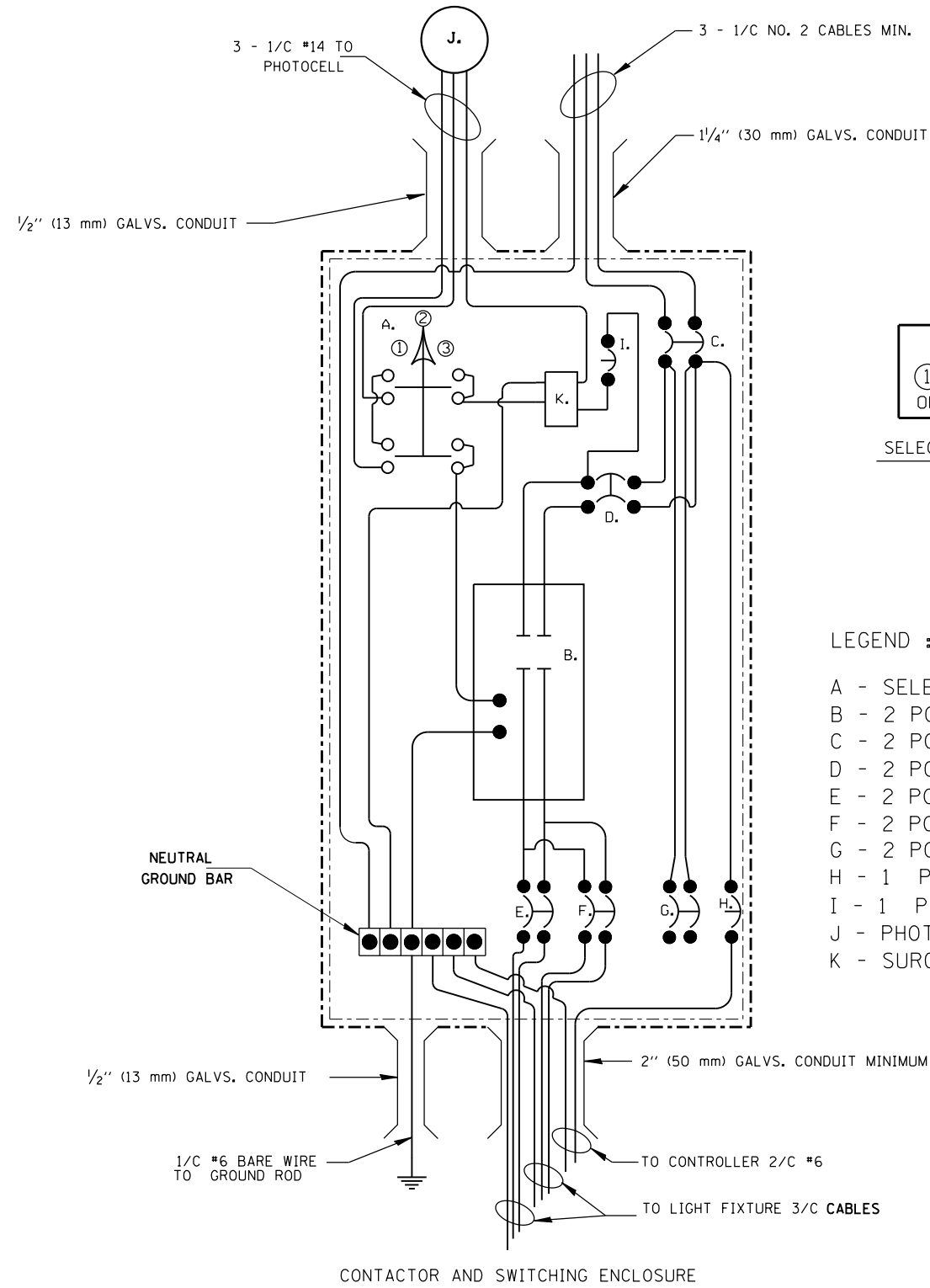


- LEGEND :
- A - SELECTOR SWITCH - 3 POSITION
  - B - 2 POLE , 30 AMP CONTACTOR
  - C - 2 POLE , 100 AMP BREAKER
  - D - 2 POLE , 30 AMP BREAKER
  - E - 2 POLE , 15 AMP BREAKER
  - F - 2 POLE , 15 AMP BREAKER
  - G - 2 POLE , 20 AMP BREAKER
  - H - 1 POLE , 50 AMP BREAKER
  - I - 1 POLE , 15 AMP BREAKER
  - J - PHOTOCELL
  - K - SURGE PROTECTOR

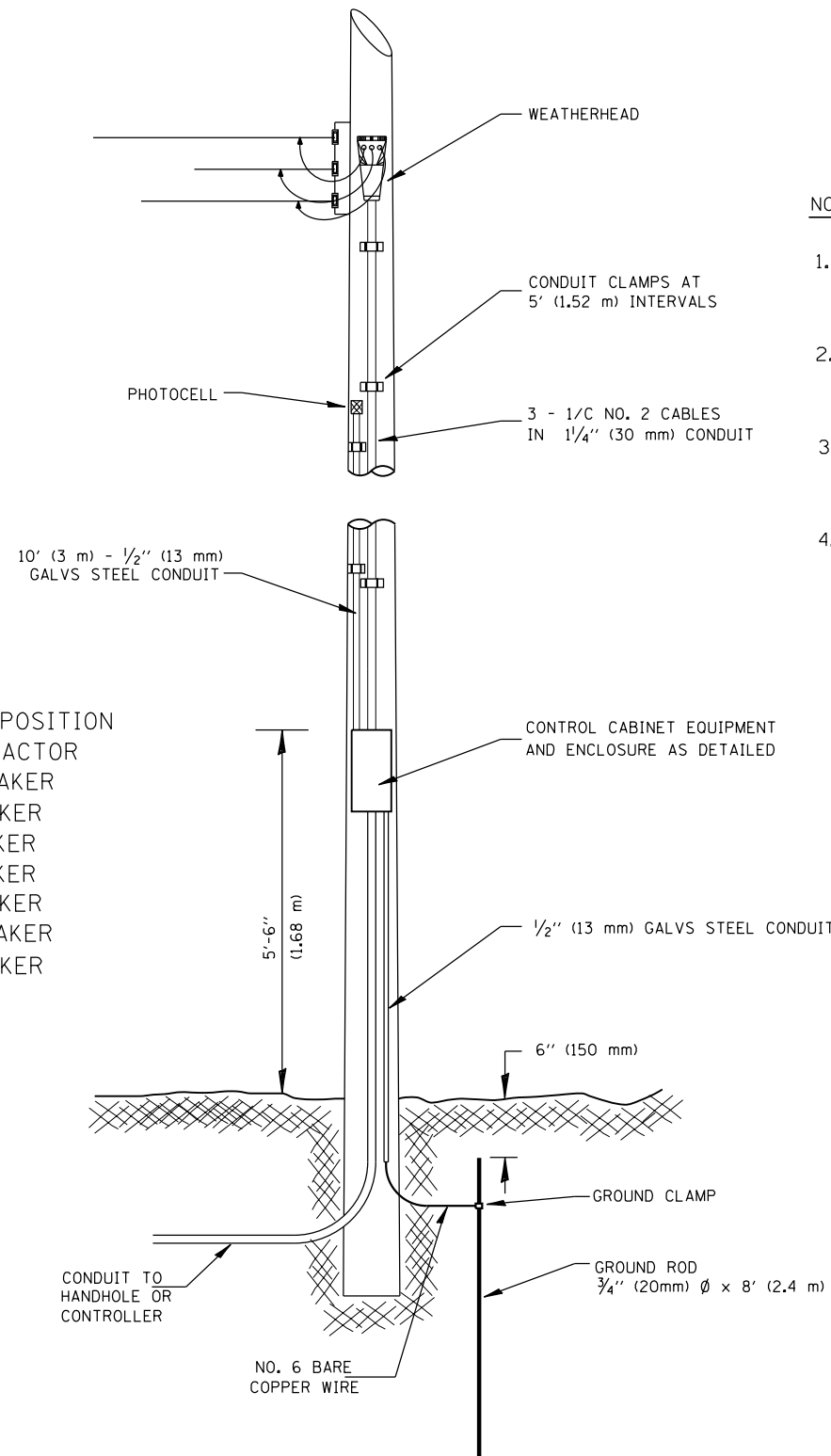


- NOTES :
1. ALL ENCLOSURES SHALL BE NEMA TYPE 4 ALUMINUM ALLOY WEATHER PROOF BOX WITH LOCKING PROVISIONS.
  2. CONTROL CABINET SHALL HAVE MINIMUM INSIDE DIMENSIONS OF 18" (450 mm) x 12" (300 mm) x 6" (150 mm) .
  3. THE CONTRACTOR MAY USE MATERIALS SALVAGED FROM THE EXISTING SERVICE IF APPROVED BY THE ENGINEER.
  4. SELECTOR SWITCH SHALL HAVE MARKED POSITIONS WITH METAL OR ENGRAVED PLASTIC NAME PLATE AS SHOWN.

SERVICE INSTALLATION TYPE B, MODIFIED



- LEGEND :
- A - SELECTOR SWITCH - 3 POSITION
  - B - 2 POLE , 30 AMP CONTACTOR
  - C - 2 POLE , 100 AMP BREAKER
  - D - 2 POLE , 30 AMP BREAKER
  - E - 2 POLE , 15 AMP BREAKER
  - F - 2 POLE , 15 AMP BREAKER
  - G - 2 POLE , 20 AMP BREAKER
  - H - 1 POLE , 50 AMP BREAKER
  - I - 1 POLE , 15 AMP BREAKER
  - J - PHOTOCELL
  - K - SURGE PROTECTOR



- NOTES :
1. ALL ENCLOSURES SHALL BE NEMA TYPE 4 ALUMINUM ALLOY WEATHER PROOF BOX WITH LOCKING PROVISIONS.
  2. CONTROL CABINET SHALL HAVE MINIMUM INSIDE DIMENSIONS OF 18" (13 mm) x 12" (300 mm) x 6" (150 mm).
  3. THE CONTRACTOR MAY USE MATERIALS SALVAGED FROM THE EXISTING SERVICE IF APPROVED BY THE ENGINEER.
  4. SELECTOR SWITCH SHALL HAVE MARKED POSITIONS WITH METAL OR ENGRAVED PLASTIC NAME PLATE AS SHOWN.

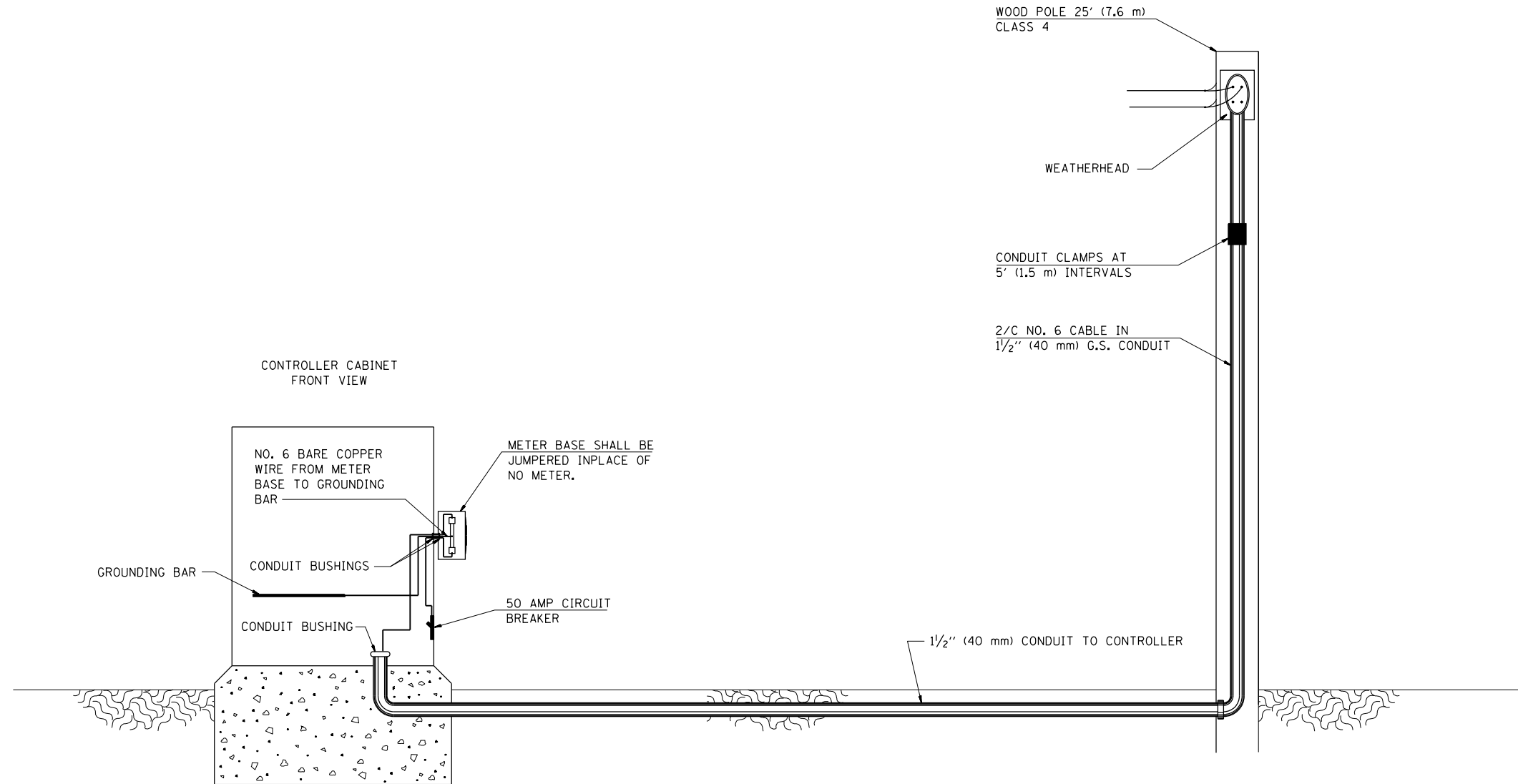
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Default	PLOT SCALE = 40.000' / in.	DATE - 3/17/88	REVISED -
	PLOT DATE = 5/10/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SERVICE INSTALLATION,  
TYPE B (MODIFIED)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

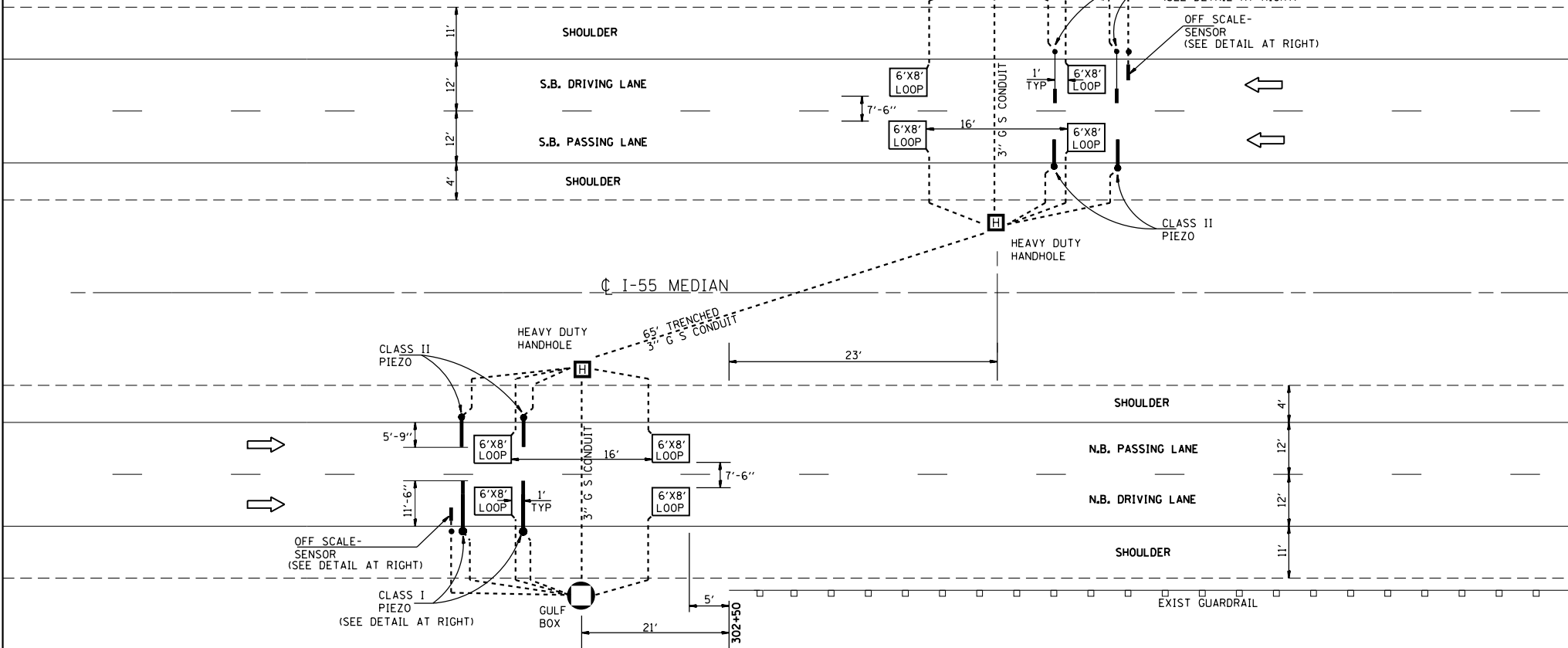
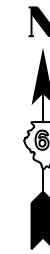
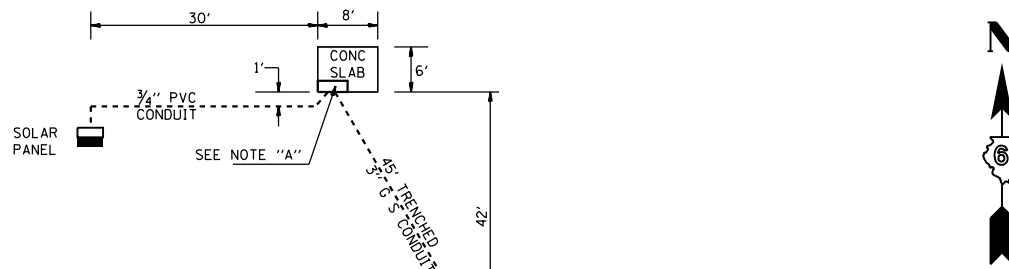
**SERVICE INSTALLATION  
TYPE C (MODIFIED)**

SCALE: SHEET OF SHEETS STA. TO STA.

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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

EQUIPMENT TEST / FOUR-WEEK COUNT STATION  
 FAI 55 - SANGAMON CO CONSTRUCTION STA 302+50

NOTE "A":  
 TYPE D FOUNDATION FOR THE TYPE III  
 GROUND MOUNTED CONTROL CABINET  
 IS LOCATED ON THE SOUTHEAST CORNER  
 OF THE CONCRETE SLAB.  
 THE FOUNDATION SHALL BE A MINIMUM OF 1/2"  
 ABOVE THE CONCRETE SLAB SURFACE.



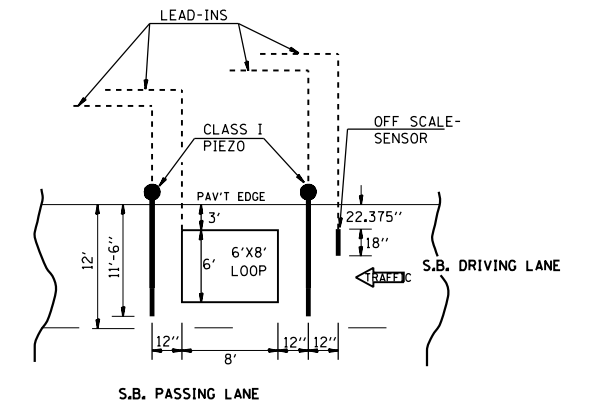
NOTE: SCALE IS DISTORTED TO CLARIFY LOCATIONS

GENERAL NOTES

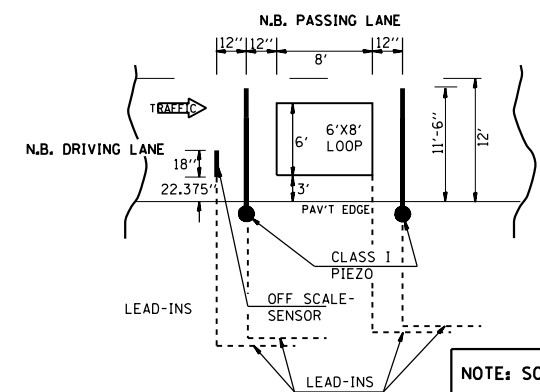
1. EACH DETECTOR LOOP USED SHALL BE WIRED INDEPENDENTLY AT THE GULFBOX.
2. A SINGLE MULTIPLE PAIR CABLE SHALL BE WIRED FROM THE GULFBOX TO THE CONTROL CABINET. THE NUMBER OF PAIRS IN THE CABLE SHALL BE EQUAL TO THE NUMBER OF DETECTOR LOOPS PLUS A MINIMUM OF ONE PAIR TO BE USED AS A SPARE.
3. RECTANGULAR SHAPED LOOPS SHALL HAVE A MINIMUM SEPARATION 7 1/2' BETWEEN INSIDE EDGES OF THE DETECTOR LOOPS.
4. EACH 6' X 8' DETECTOR LOOP SHALL HAVE A MINIMUM OF 4 TURNS OF CABLE OR AS DIRECTED BY THE ENGINEER.
5. DETECTOR LOOPS SHALL BE LOCATED AS IN THE PAVEMENT AS DIRECTED BY THE ENGINEER. ALL LOOPS SHALL BE ORIENTED THE SAME DIRECTION.
6. GULFBOX JUNCTIONS / HANDHOLES SHALL BE LOCATED OUTSIDE THE AGGREGATE OR STABILIZED SHOULDER LIMITS WITH THE TOP OF GULFBOX JUNCTIONS / HANDHOLES LEVEL WITH GROUNDLINE, AS DIRECTED BY THE ENGINEER.

QUANTITIES

- 8 - LOOPS ( 6'x8' )
- 4 - CLASS I PIEZOS: ( 11'-6" ) IN DRIVING LANE
- 4 - CLASS II PIEZOS: ( 5'-9" ) IN PASSING LANE
- 2 - OFF SCALE DETECTOR
- 1 - SOLAR PANEL - 18 WATT MINIMUM
- 1 - TYPE III CABINET - GROUND MOUNT ( HENNESSY NO. HP503017 OR APPROVED EQUAL )
- 3 - HEAVY-DUTY HANDHOLES



I-55 MEDIAN



NOTE: SCALE IS DISTORTED TO CLARIFY LOCATIONS

INSTALLATION NOTES:

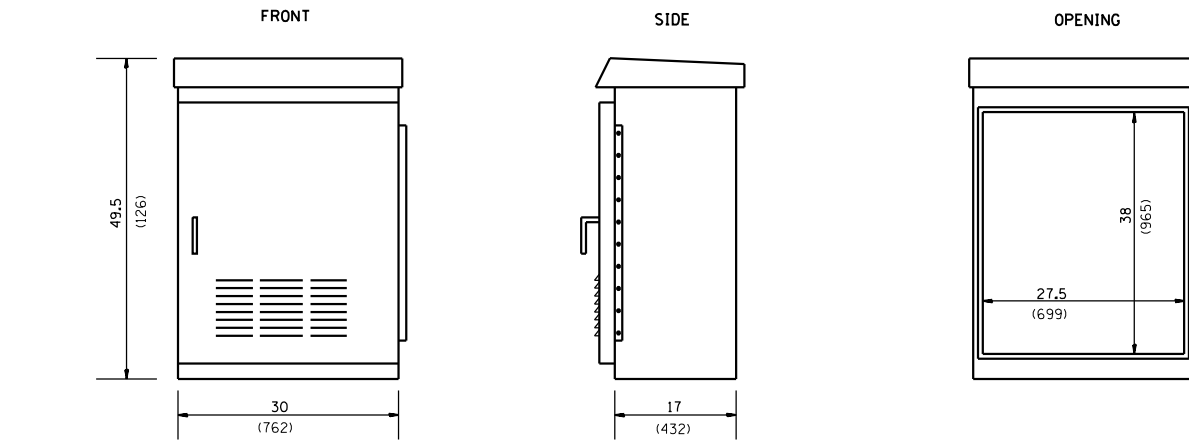
- A. CUT SLOTS 1/2" WIDE AND 1/4" DEEP THE FULL WIDTH OF THE TRAFFIC LANE.
- B. CUT A SLOT 1/2" WIDE X 1/4" DEEP X 20" LONG, 1'-8 3/4" IN FROM THE EDGE OF PAVEMENT, TO ALLOW FOR POSITIONING OF THE ON/OFF-SCALE SENSOR TO ± 3/8" OF THE DIMENSIONS SHOWN ON THE DRAWING.
- C. CUT LOOP SLOTS TO THE DIMENSIONS SHOWN, 1/4" TO 1/2" DEEP. LOOPS SHALL BE POSITIONED AS SHOWN.
- D. LOOP LEAD-IN AND PIEZO LEAD-IN SLOTS TO BE CUT 3/8" WIDE, 1" TO 1 1/4" DEEP. CONDUIT TO BE USED FOR LEAD-IN CABLE OUTSIDE OF ROADWAY.
- E. ALL DIMENSIONS IN DIRECTION OF TRAFFIC ARE FROM THE LEADING EDGE OF THE PIEZO SLOTS.
- F. LOOPS TO BE A MINIMUM OF 4 TURNS OF #14 AWG, THWN OR THHN WIRE.
- G. LOOP LEAD-IN WIRE TO BE TWISTED 3 TO 5 TURNS PER FOOT.
- H. MARK LOOP AND PIEZO LEAD-IN CABLES WITH COLORED TAPE OR WIRE MARKERS FOR IDENTIFICATION PURPOSES.
- I. LOOP SLOTS AND LEAD-IN/HOME-RUN SLOTS TO BE FILLED WITH SEALER PROVIDED BY OTHERS.

LOCATION DETAIL FOR CLASS I PIEZO AND ON/OFF-SCALE SENSORS

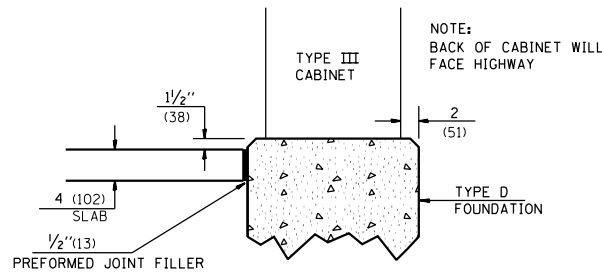
NOTE: NOT TO SCALE

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EQUIPMENT TEST / FOUR-WEEK COUNT STATION</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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SOLAR94.DGN		DATE -	REVISED -					CONTRACT NO.							
								ILLINOIS FED. AID PROJECT							

SINGLE DOOR CABINET

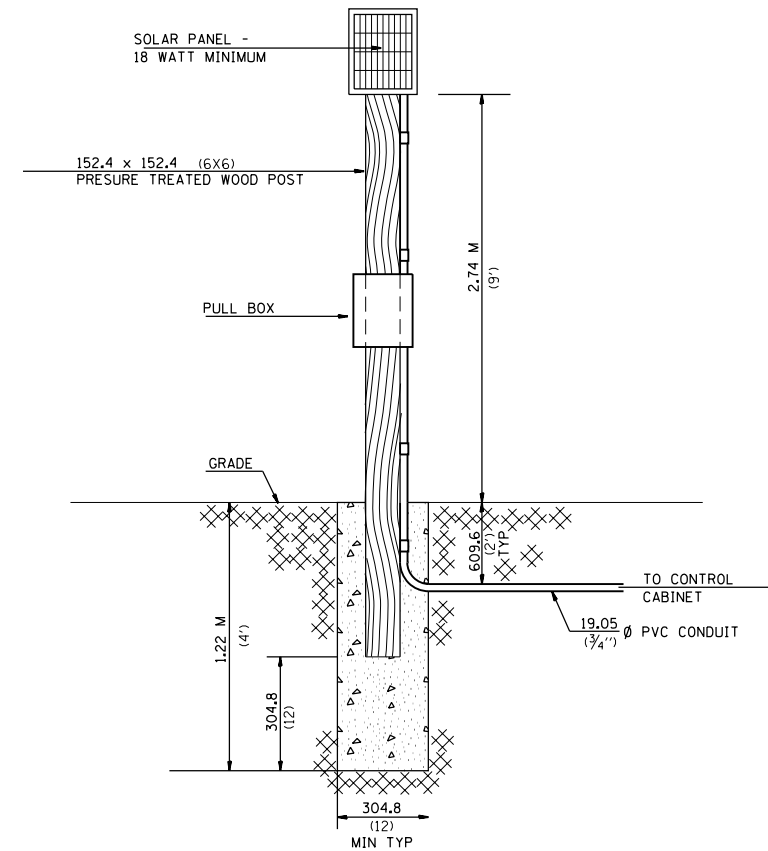


NOTE: THIS UNIT SHALL HAVE THREE ADJUSTABLE SHELVES. ALL TERMINAL STRIPS AND PIEZO CONNECTIONS WILL BE MOUNTED ON BACK INSIDE WALL.

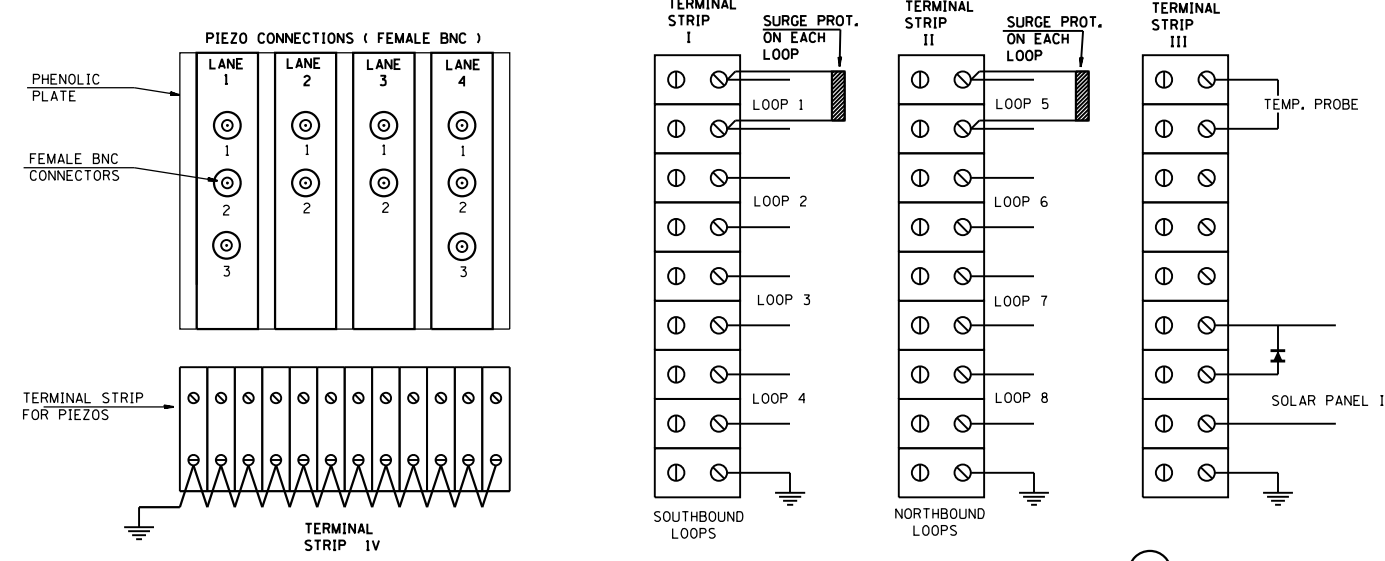


TRAFFIC DATA COLLECTION CONTROL CABINET
SOURCE: HENNESSY PRODUCTS INC. OR APPROVED EQUAL
MODEL: HP 503017
MATERIAL: ALUMINUM ALLOY - TYPE NO. 5052-H32
NEMA TYPE: 3R-12-4-4X
CABINET FINISH: NATURAL ALUMINUM

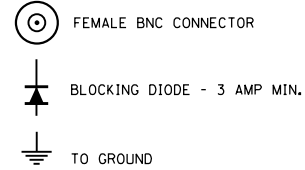
SOLAR POWER ROST DETAIL



PHENOLIC PLATE, TERMINAL STRIPS & BNC CONNECTORS IN CABINET

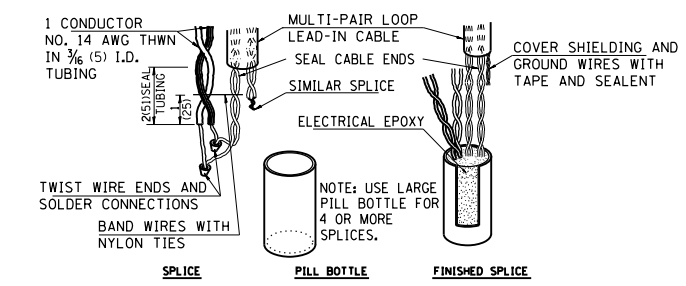
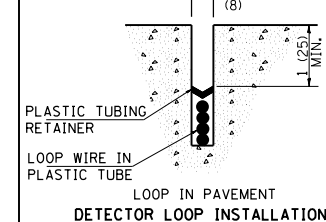
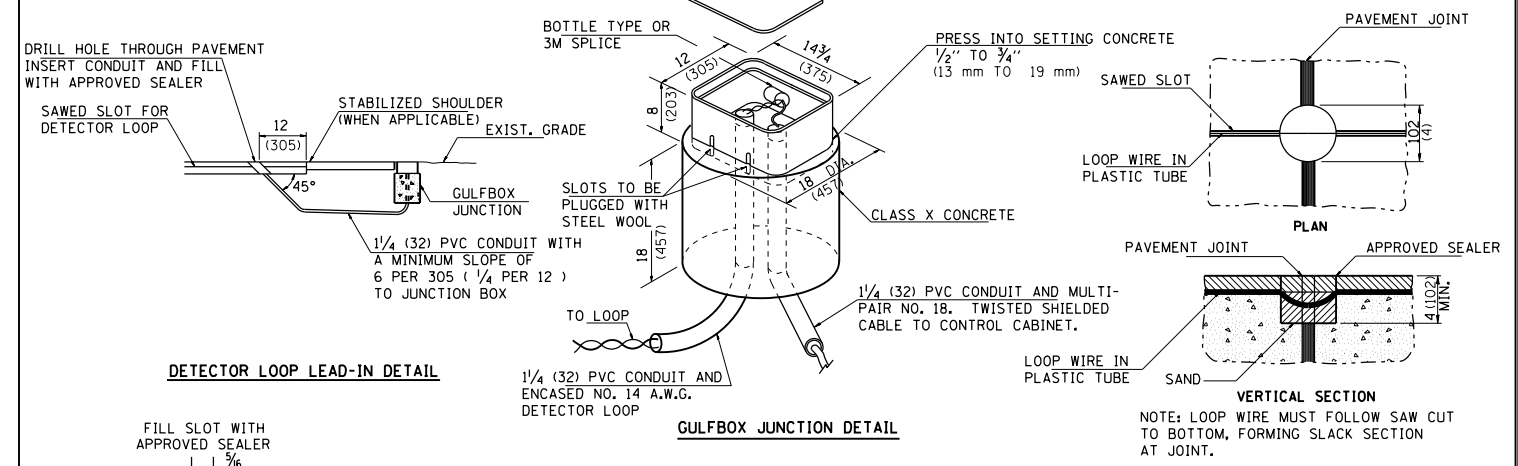


- NOTES:
- ONE SURGE PROTECTOR FOR EACH PIEZO AT CONTROLLER  
SOURCE: BLACK BOX CORP. - PART NO. JL-SP350A-R2 / 10 REQUIRED
  - PHENOLIC PLATE IS MOUNTING SURFACE FOR FEMALE BNC CONNECTORS
  - ONE SURGE PROTECTOR FOR EACH LOOP  
SOURCE: SURRESTOR - PART NO. SRA-16 / 8 REQUIRED
  - TERMINAL STRIPS SHALL BE MOUNTED ON ALUMINUM PLATE
  - ALL PIEZO LEADS SHALL BE TERMINATED AT BULKHEAD MOUNTED FEMALE BNC CONNECTORS
  - ALL CONNECTIONS MUST BE INSULATED FROM EACH OTHER
  - PIEZO CONNECTIONS AND TERMINAL STRIPS SHALL BE LABELED AS SHOWN



PIEZO CONNECTIONS AND TERMINAL STRIPS IN TRAFFIC CONTROL CABINET  
MOUNT IN HENNESSY CABINET NO. HP503017 OR APPROVED EQUAL - ALUMINUM ALLOY

DETECTOR LOOP DETAILS; GULFBOX JUNCTION DETAIL



DETECTOR LOOP DETAIL AT PAVEMENT JOINT OR PAVEMENT CRACK

NOTE: NOT TO SCALE  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

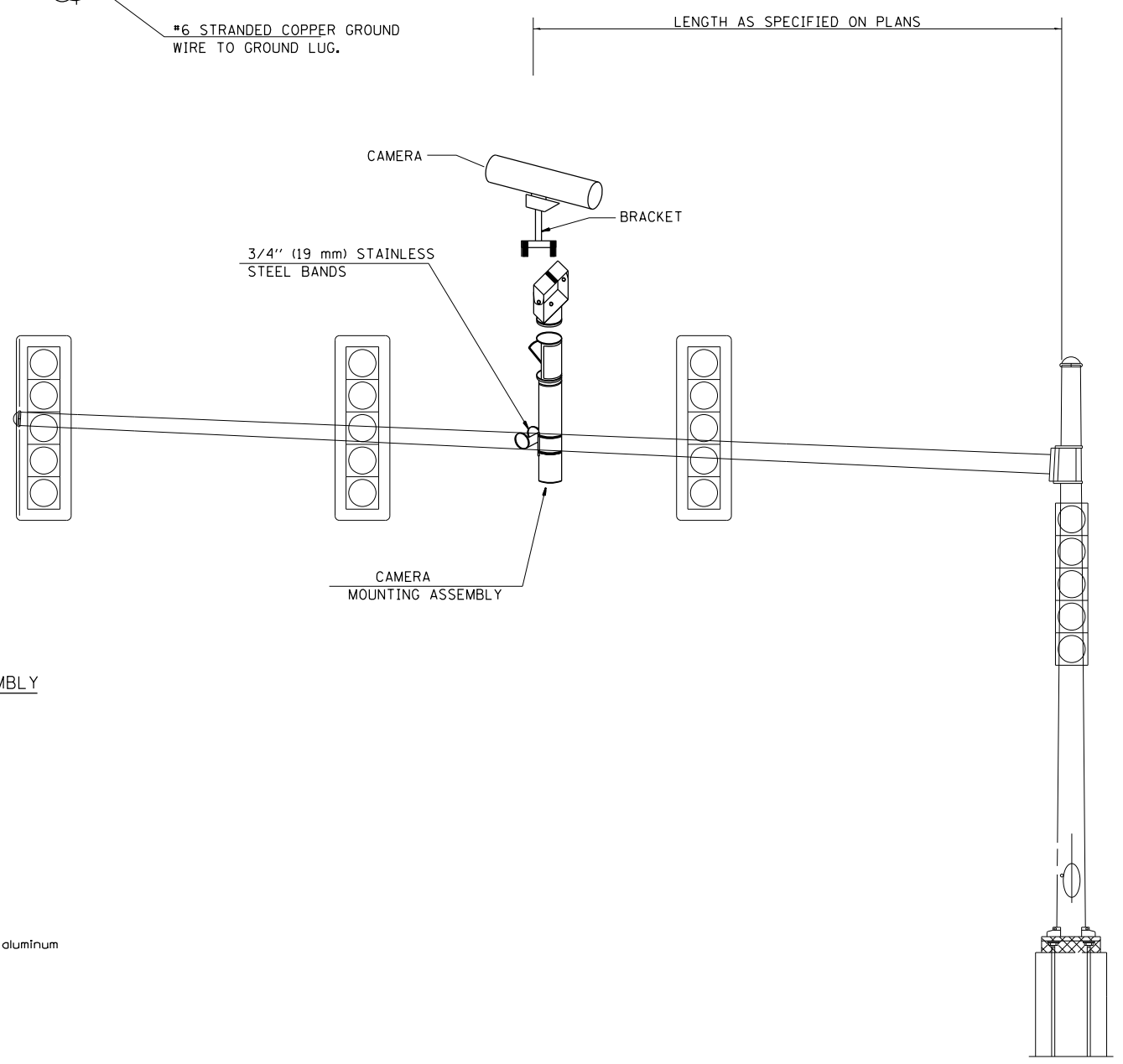
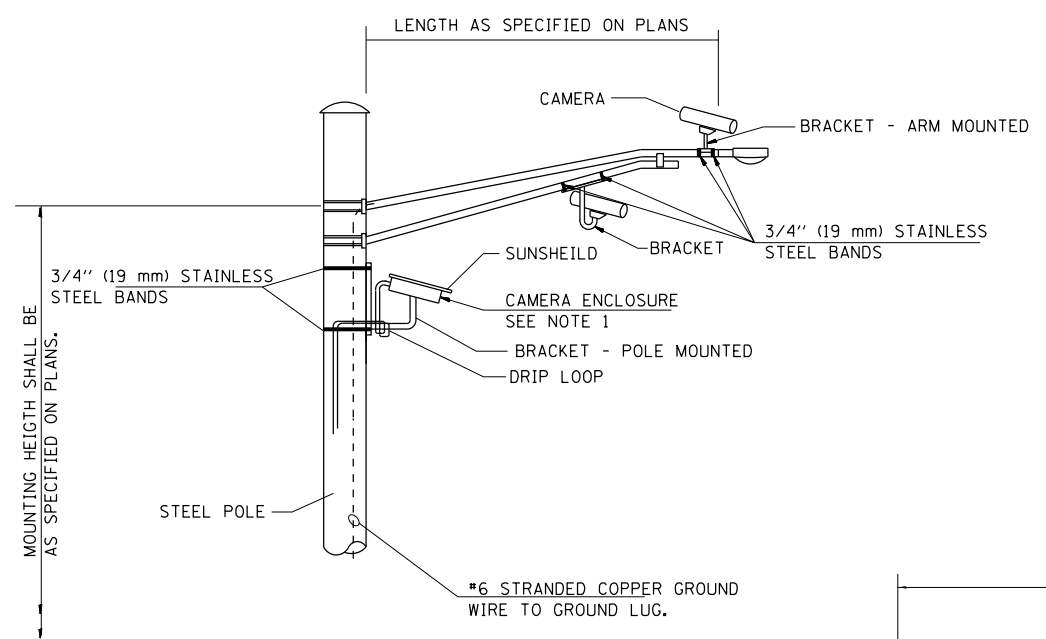
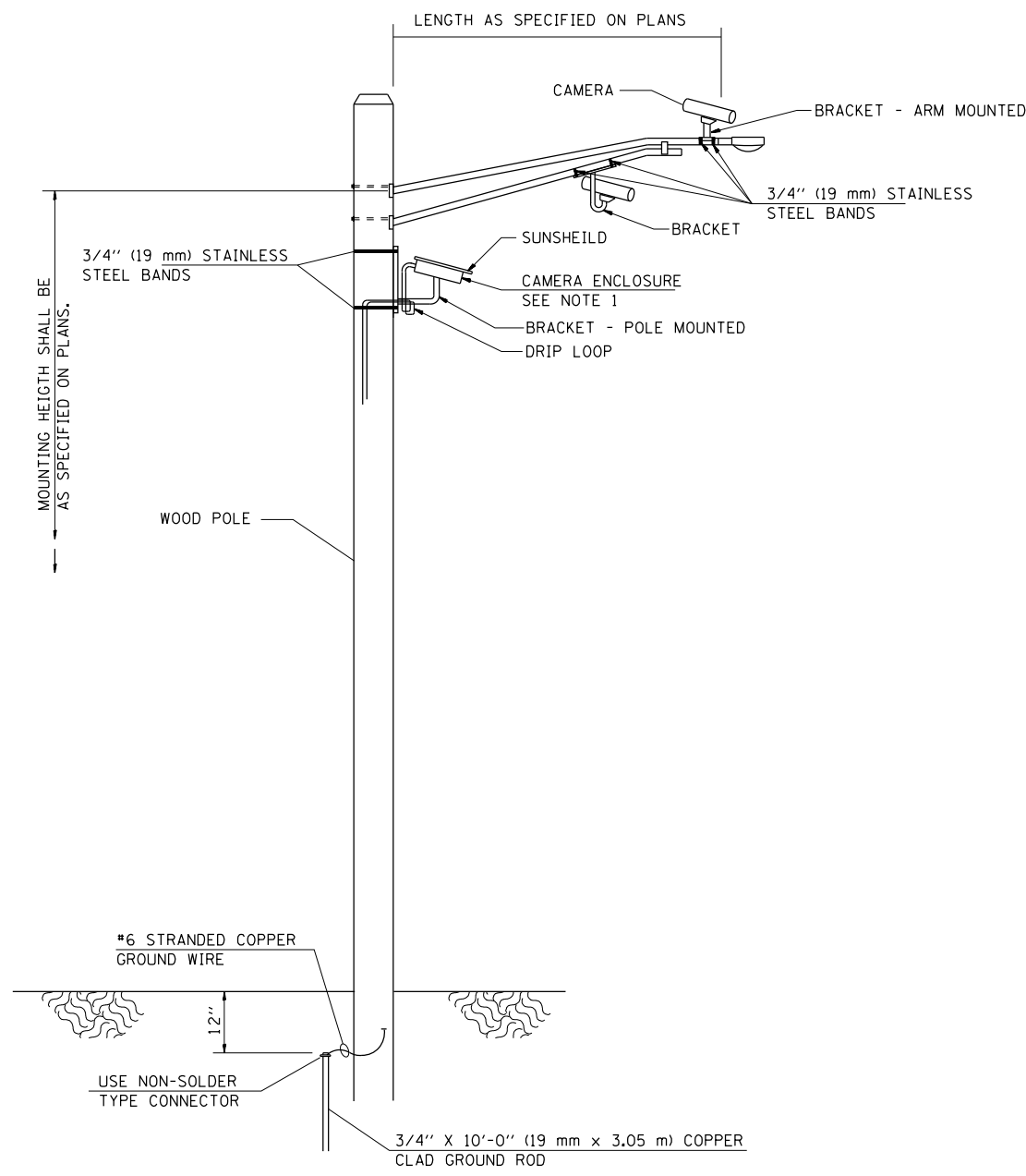
FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -
p:\1\084EBID\INTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 6\Standards\Standard\Drawings\800-solar\94.dgn		DRAWN	REVISED -
Default SOLAR94.DGN	PLOT SCALE = 40.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/10/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

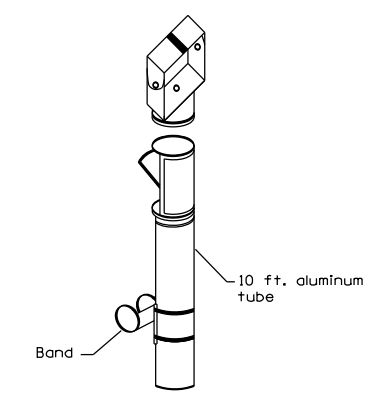
EQUIPMENT TEST / FOUR-WEEK  
COUNT STATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CONTRACT NO.
ILLINOIS FED. AID PROJECT				



CAMERA MOUNTING ASSEMBLY



**VIDEO DETECTION SYSTEM INSTALLATION  
ARM MOUNTED OR POLE MOUNTED CAMERA**

NOTE 1: CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION, TO ALIGN HORIZON AT HORIZONTAL PLANE.

FILE NAME = VCAMERA.DGN	USER NAME = Verenskif	DESIGNED - WCD	REVISED - WCD31OCT97
		CHECKED - WCD	REVISED - SEC 2011-01-11
		DATE - 3/12/96	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VIDEO DETECTION SYSTEM  
INSTALLATION DETAIL**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				