

MILL

Filename: CTDOT_HIGHWAY_STD2013.dgn

Model: 17-HW-651_01

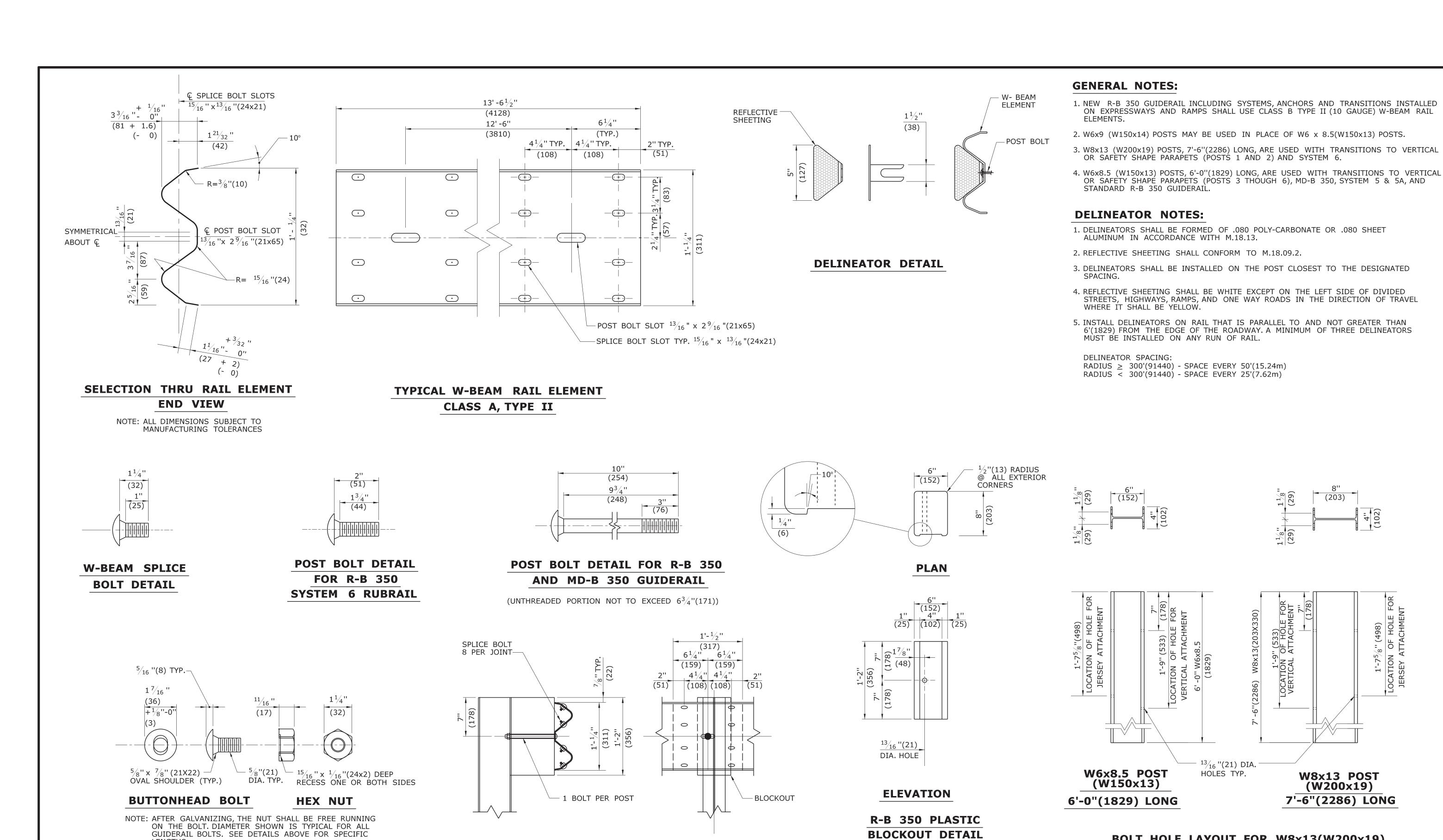
REVISION DESCRIPTION

Plotted Date: 6/13/2013

REV. DATE

2013.07.24 14:44:01-04'00'

OFFICE OF ENGINEERING



BOLT HOLE LAYOUT FOR W8x13(W200x19) AND W6x8.5 (W150x13)UNIFORM POST (REFER TO GENERAL NOTES)

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. 6/11 REMOVE WEATHERING STEEL NOTES REVISION DESCRIPTION REV. DATE Plotted Date: 5/10/2011

LENGTHS.

NOT TO SCALE

SECTION

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION**

Filename: CTDOT_HIGHWAY_STD_JUNE2011.dgn Model: 36-HW-910_01

LAP DETAIL

LAP RAIL SECTION IN DIRECTION OF TRAFFIC

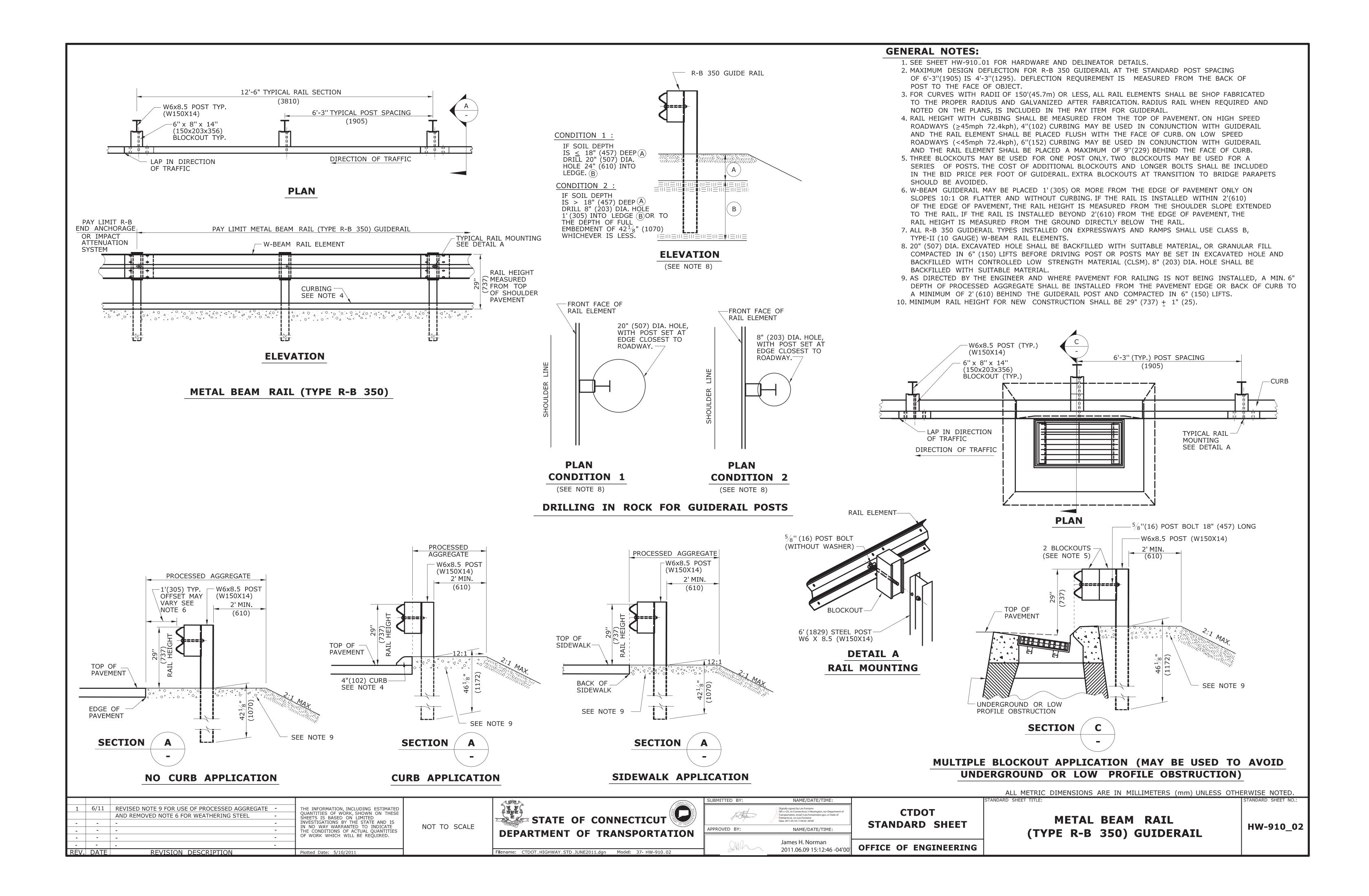
ELEVATION

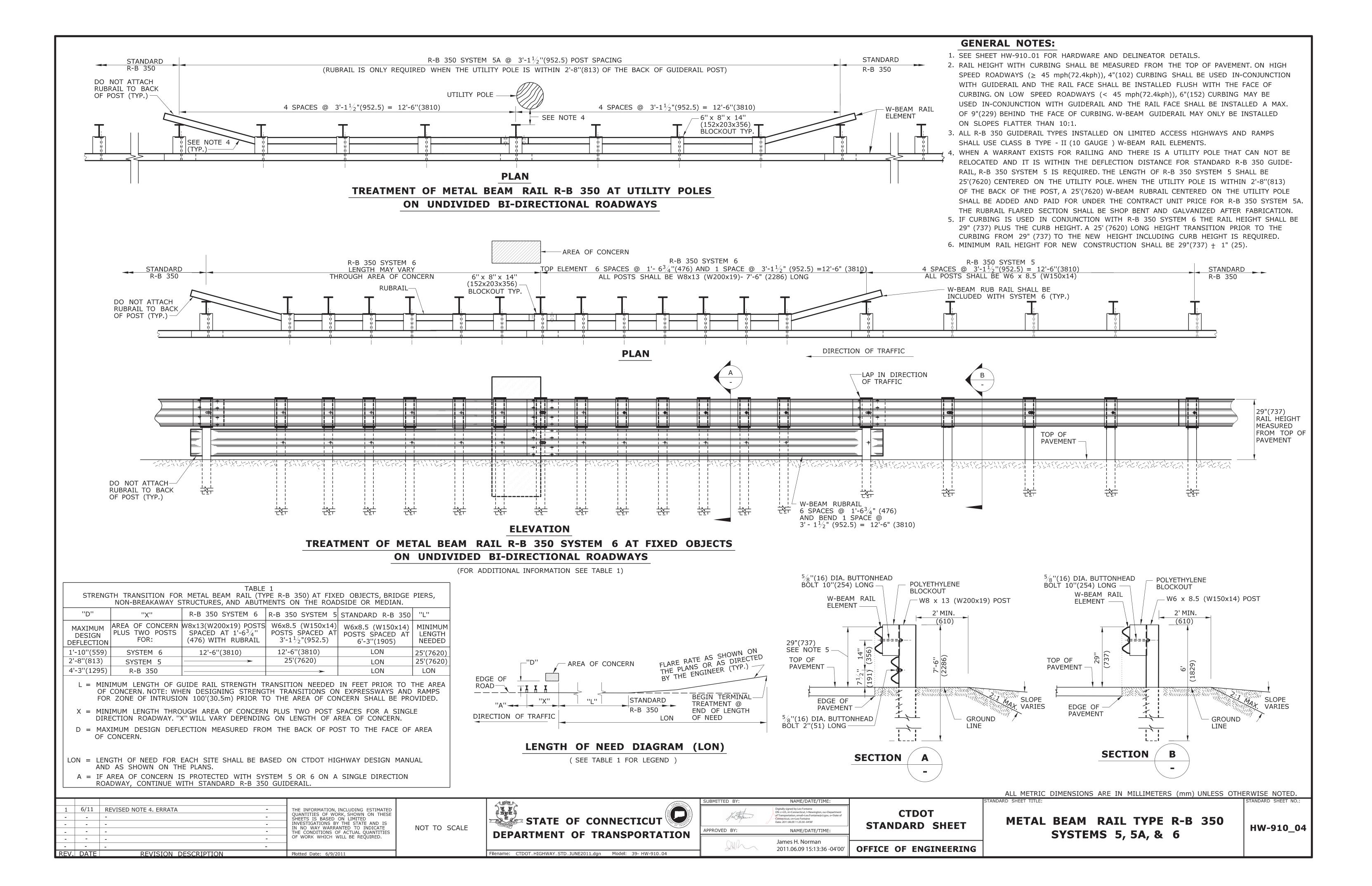
NAME/DATE/TIME: Jeo Fran APPROVED BY: NAME/DATE/TIME: OFFICE OF ENGINEERING 2011.06.09 15:12:16 -04'00'

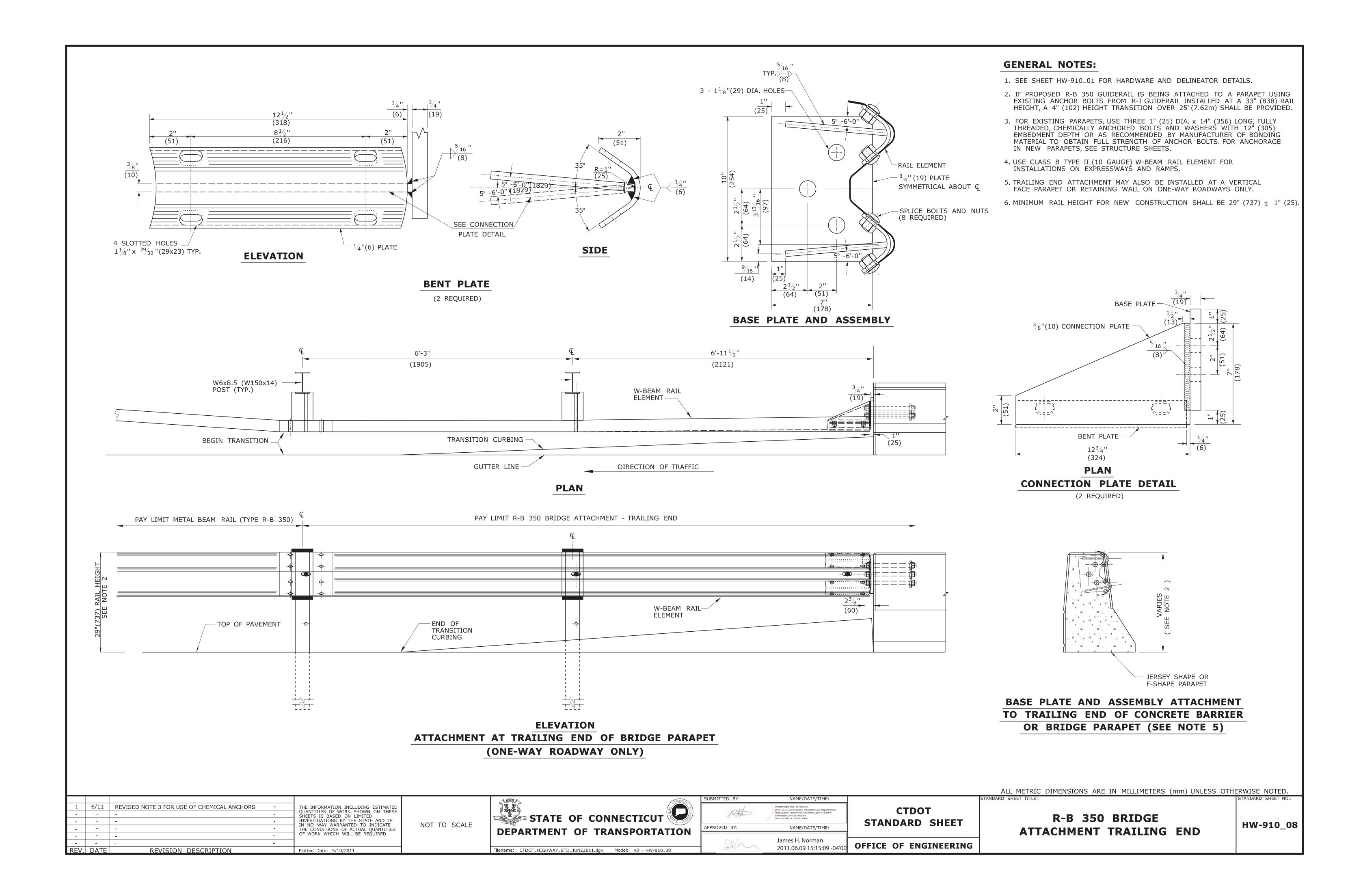
CTDOT STANDARD SHEET

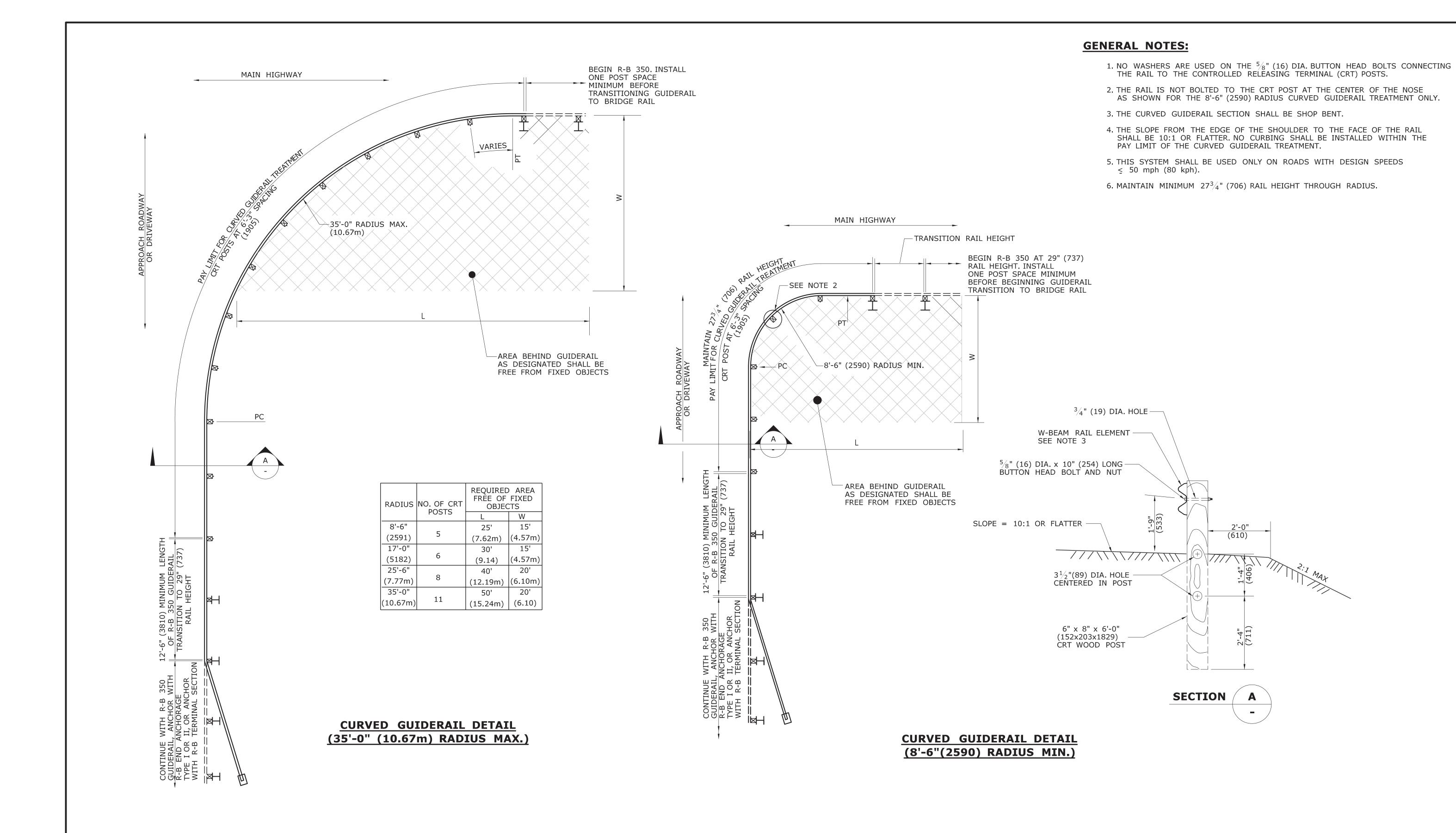
W-BEAM METAL **BEAM RAIL HARDWARE**

HW-910_01



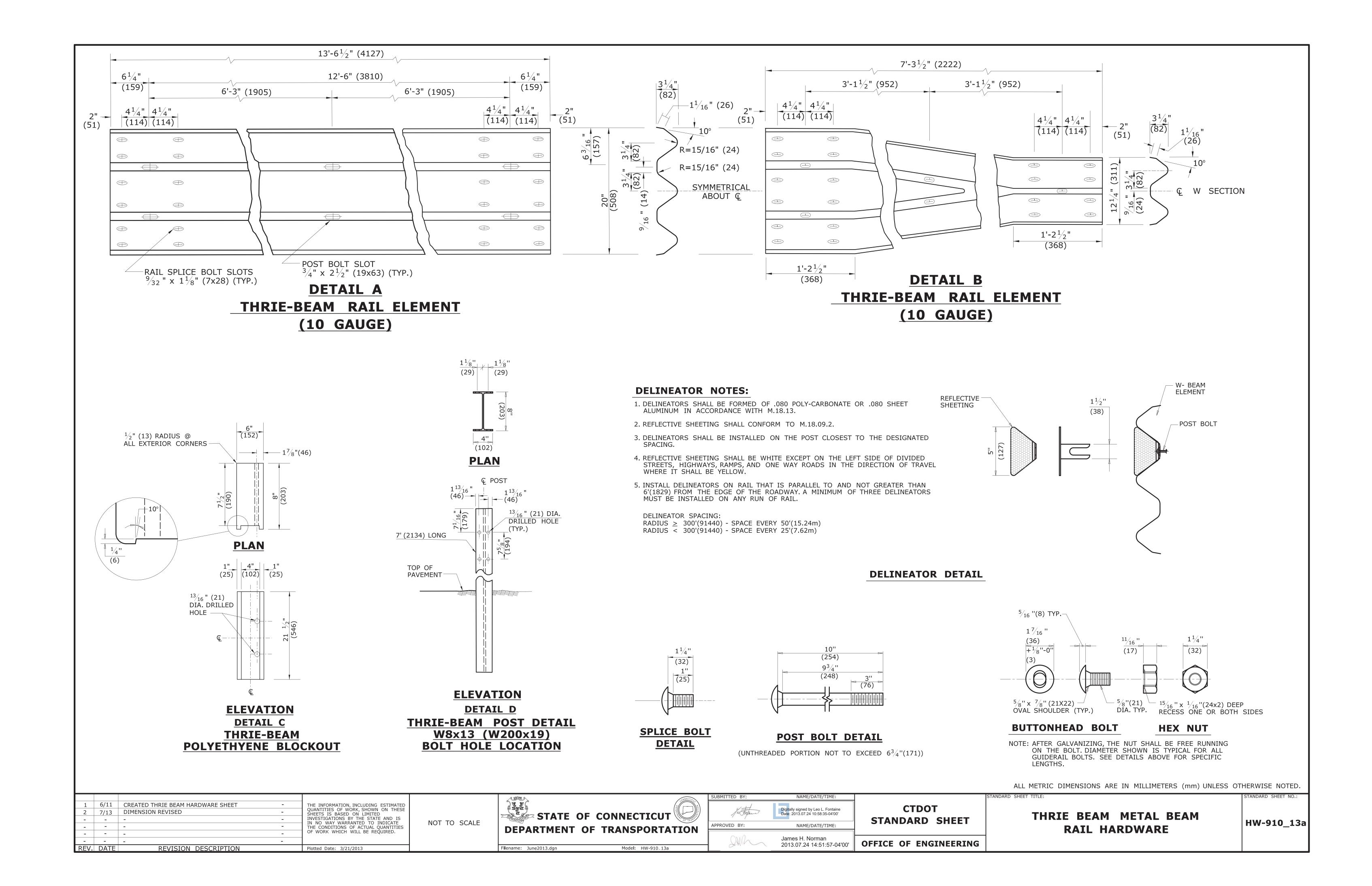


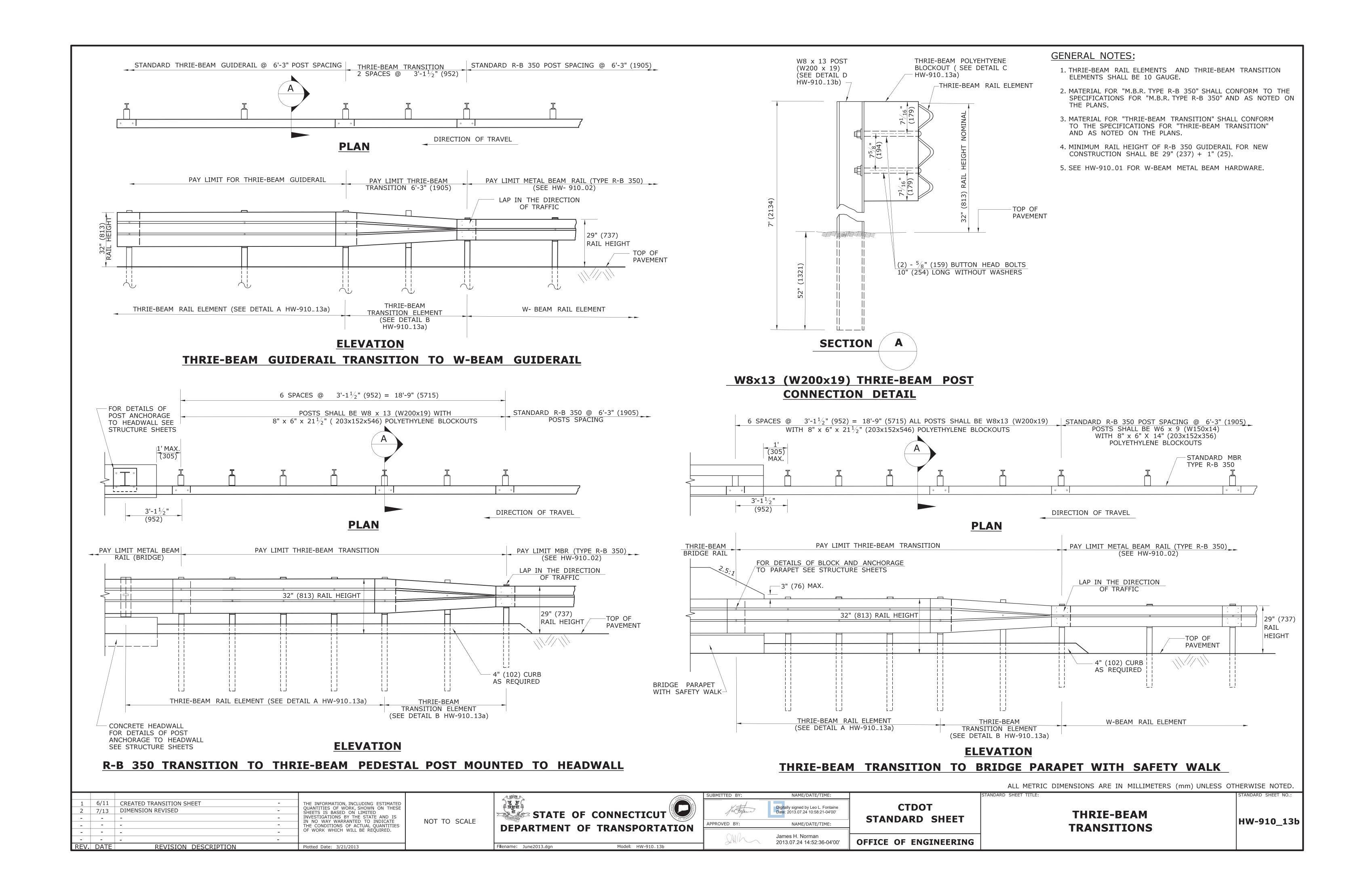


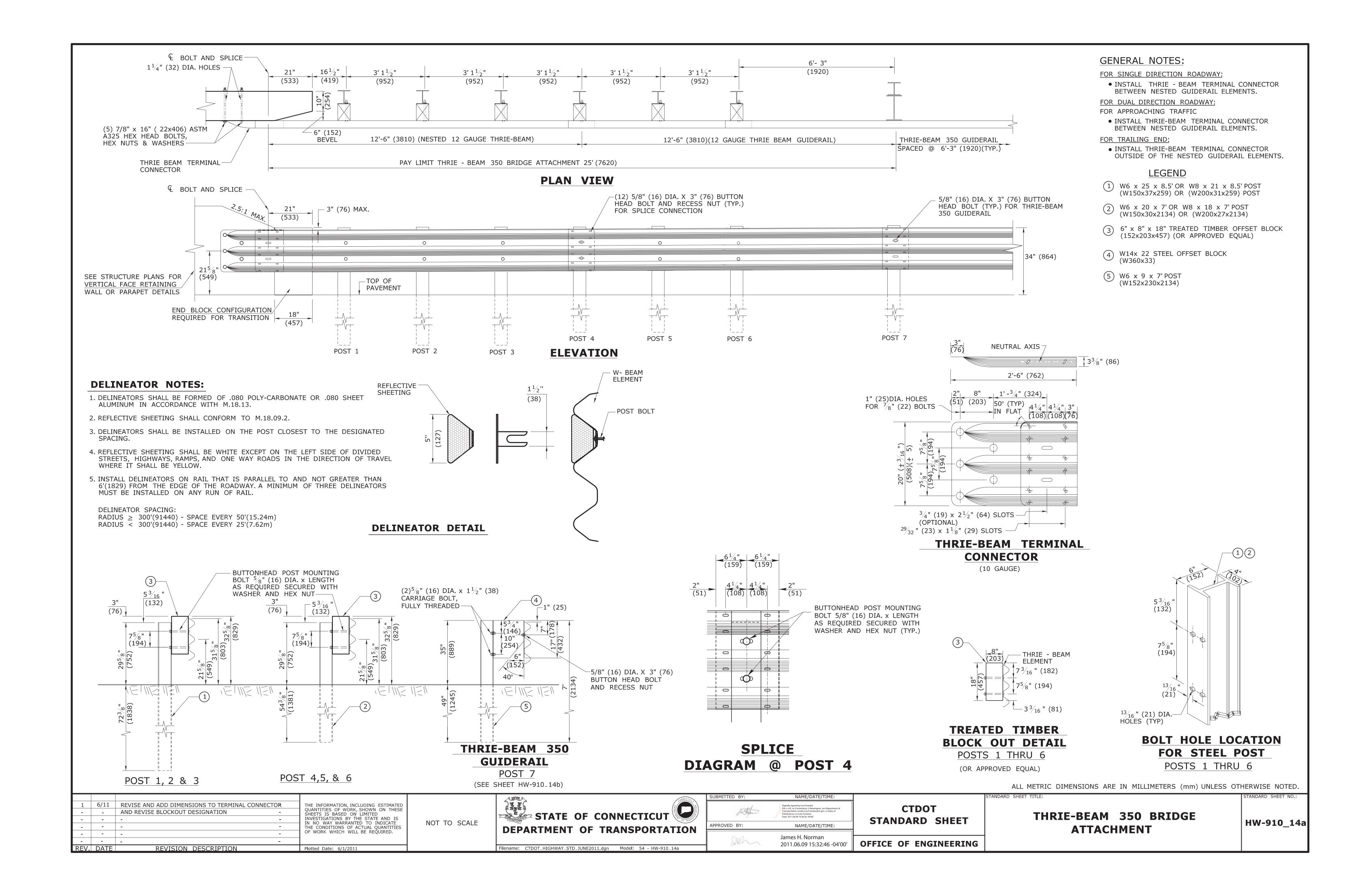


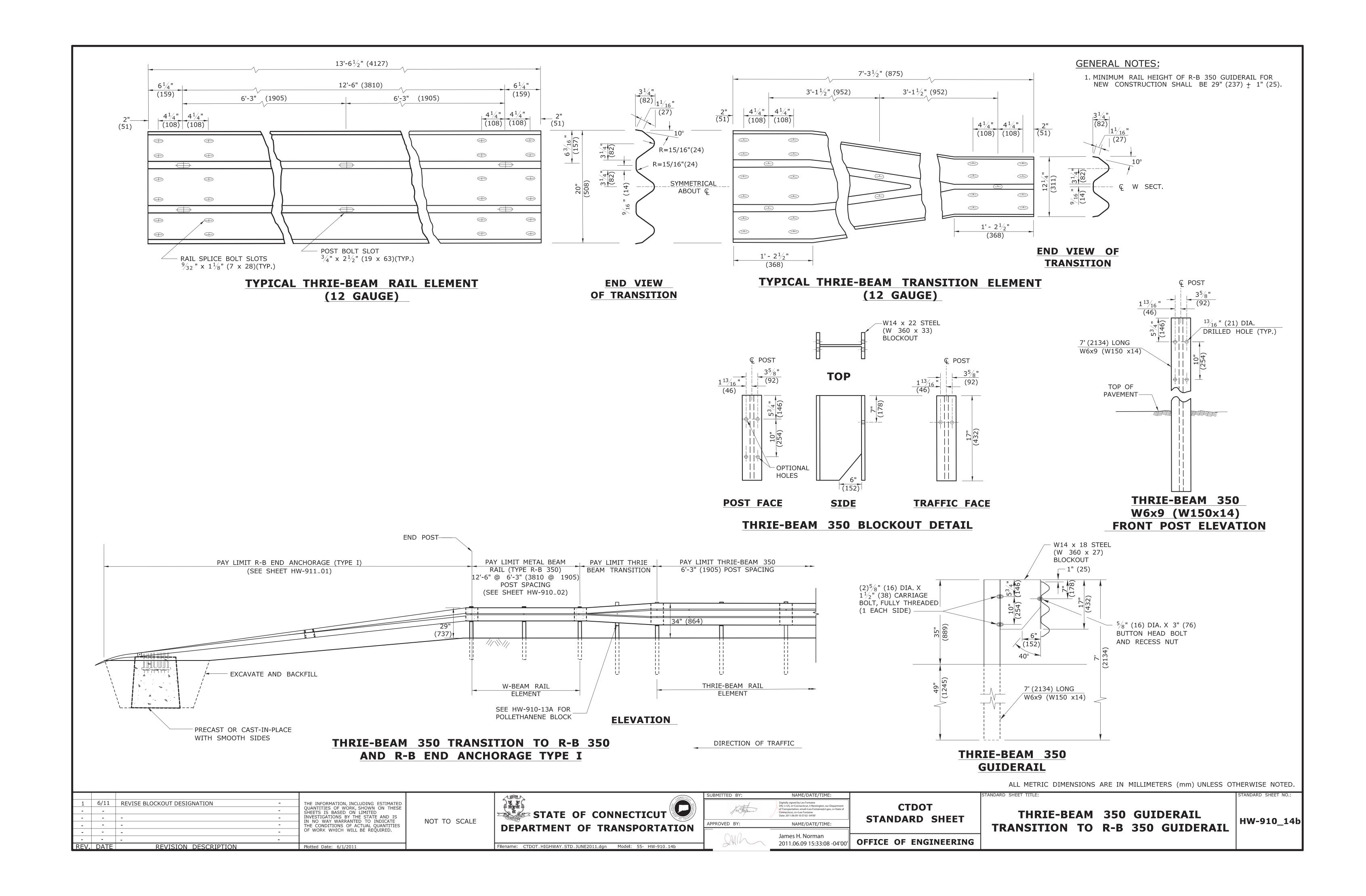
ALL METRIC DEMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

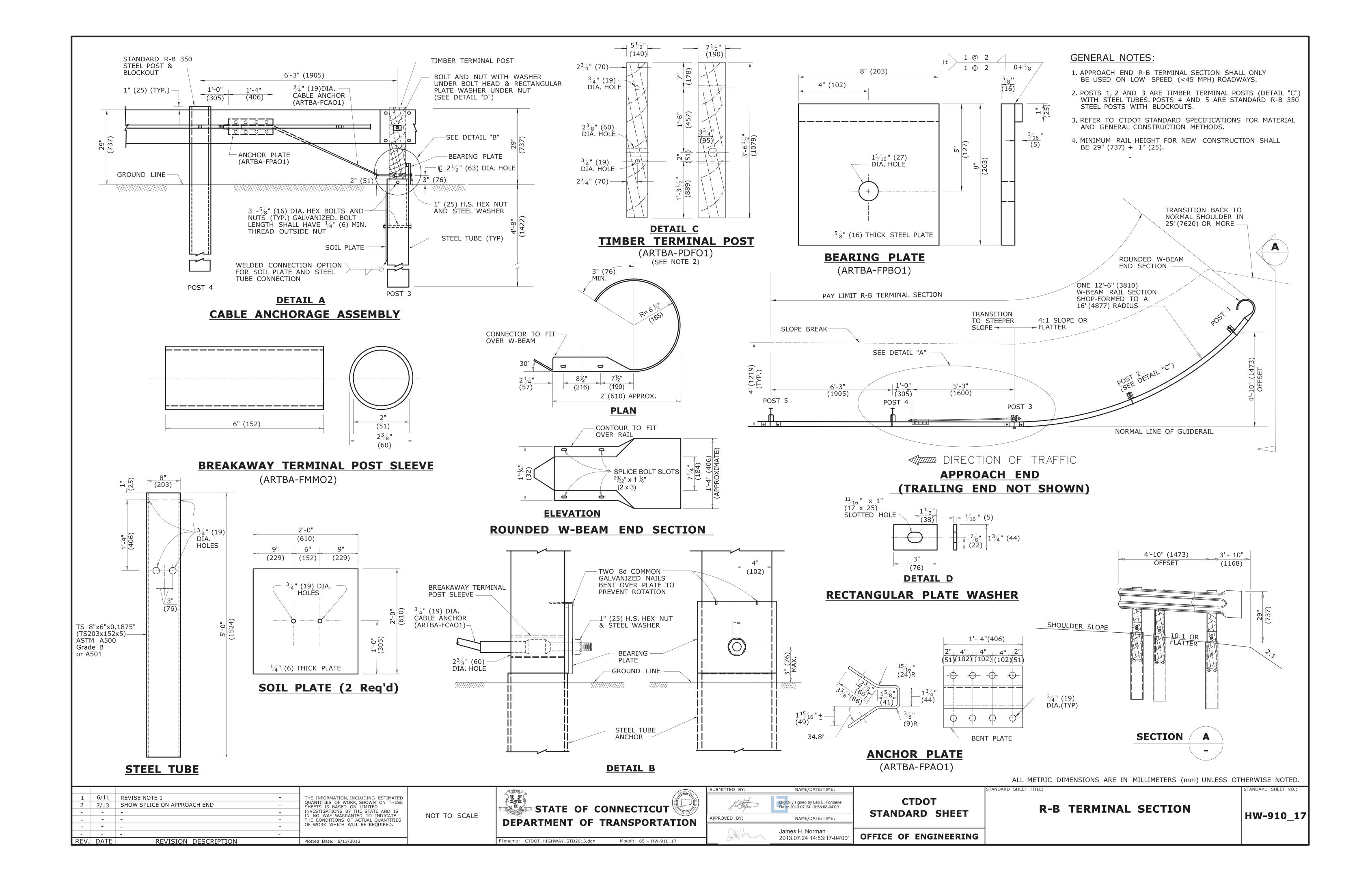
					ONNECTICA	SUBMITTED BY:	NAME/DATE/TIME:		STANDARD SHEET TITLE:	STANDARD SHEET NO.:
		-	THE INFORMATION, INCLUDING ESTIMATED			4	Digitally signed by Leo L. Fontaine Dh: c=US, st=Connecticut, I=Newington, ou=Transportation Principal	CTDOT		
⊢		-	SHEETS IS BASED ON LIMITED		STATE OF CONNECTICUT	Jeo Frame	Engineer Soils and Foundations, ou-Bureau of Engineering and Construction, ou-Department of Transportation, email=Leo.Fontaine@ct.gov, o=State of Connecticut, cn=Leo L. Fontaine		CURVED GUIDERAIL	
		-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	NOT TO SCALE	STATE OF CONNECTICOT	, ,	Date: 2012.07.25 10:22:58 -04'00'	STANDARD SHEET	COKALD GOIDEKAIL	HW-910_11
		-	THE CONDITIONS OF ACTUAL QUANTITIES	NOT TO SCREE	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	NAME/DATE/TIME:		TREATMENT DETAIL	1.144 210_11
		-	OF WORK WHICH WILL BE REQUIRED.		DEFARIMENT OF TRANSPORTATION	00	James H. Norman		- INCATHENT DETAIL	
		-					2012.07.25 12:47:32 -04'00'	OFFICE OF ENGINEERING		
	REV. DATE	REVISION DESCRIPTION	Plotted Date: 9/6/2011		Filename: CTDOT_HIGHWAY_STD_JUNE2011.dgn Model: 46 - HW-910_11		2012.01.20 12.41.02 -04 00	OTTICE OF ENGINEERING		

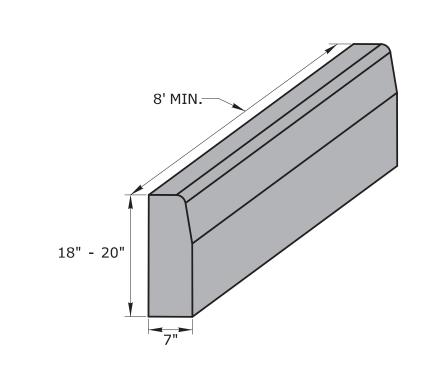




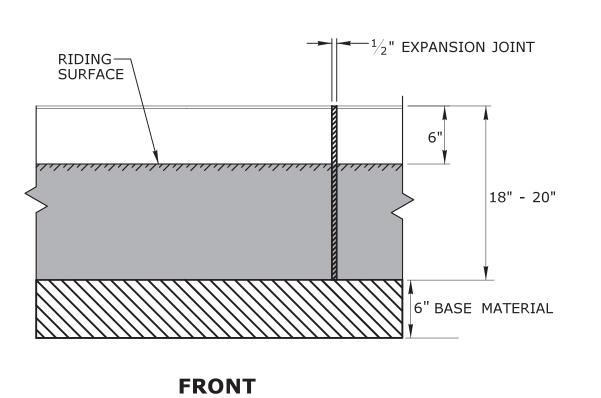








CONCRETE CURBING (6" REVEAL)

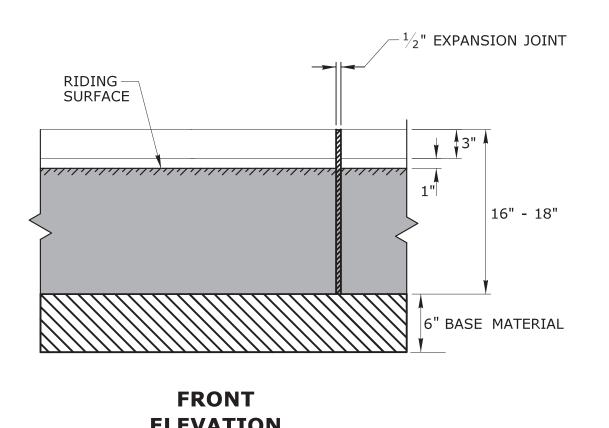


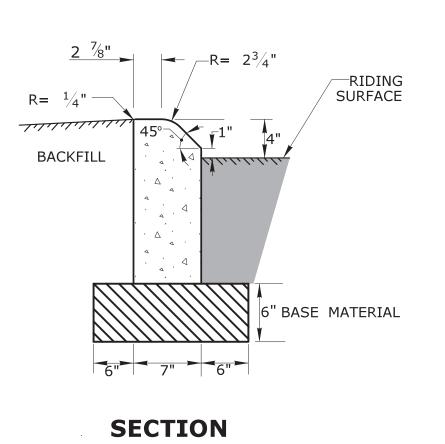
ELEVATION

BACKFILL 6" BASE MATERIAL

SECTION

CONCRETE PARK CURBING (4" REVEAL)





1	6/01/10	REVISED TITLE FOR 6" CONC. CURB		
2	6/17	REMOVED STONE, BITUMINOUS & GRANITE ITEMS	THE INFORMATION, INCLUDING ESTIMATED OUANTITIES OF WORK, SHOWN ON THESE	
\vdash			SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS	
			IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES	
			OF WORK WHICH WILL BE REQUIRED.	
RE'	V. DATE	REVISION DESCRIPTION	Plotted Date: 6/6/2017	L

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: HW-811_01.dgn Model: CT_Civil_2D_Sheet

NOT TO SCALE

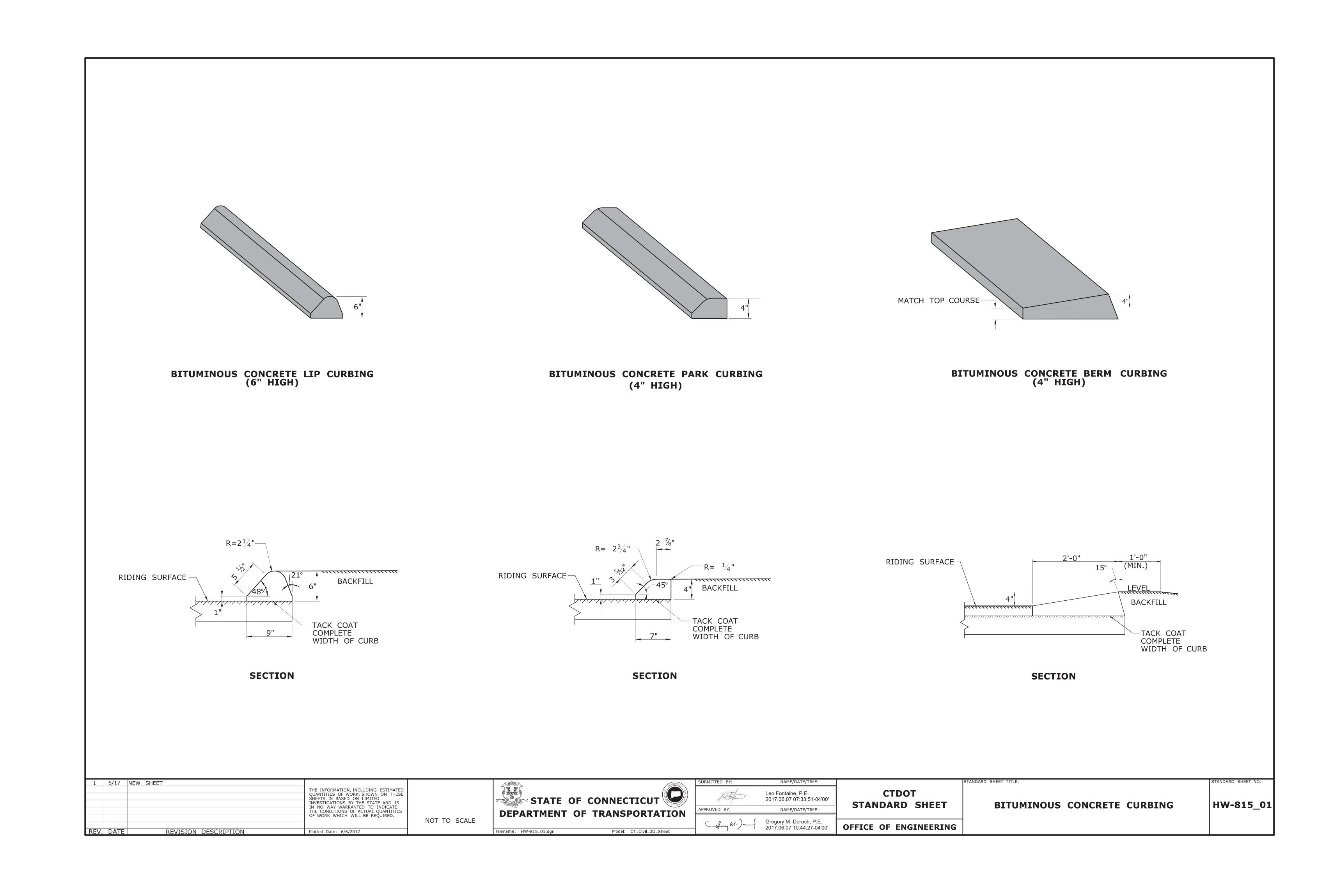
SUBMITTED BY:	NAME/DATE/TIME:		
Ju Frame	Leo Fontaine, P.E. 2017.06.07 07:33:29-04'00'	CTDOT STANDARD SHEET	
APPROVED BY:	NAME/DATE/TIME:		
Coffing as.) — (Gregory M. Dorosh, P.E. 2017.06.07 10:41:26-04'00'	OFFICE OF ENGINEERING	

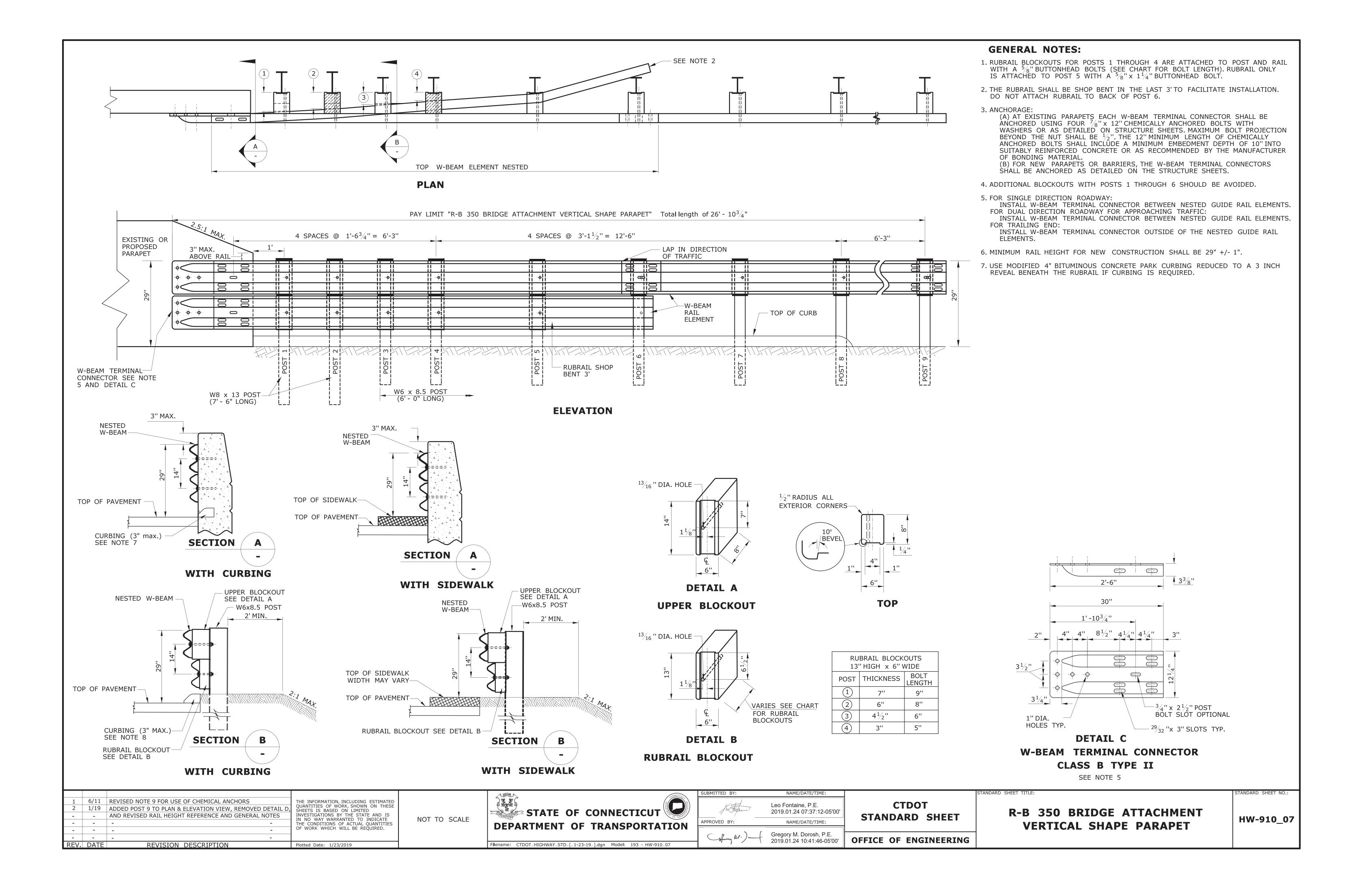
CONCRETE CURBING

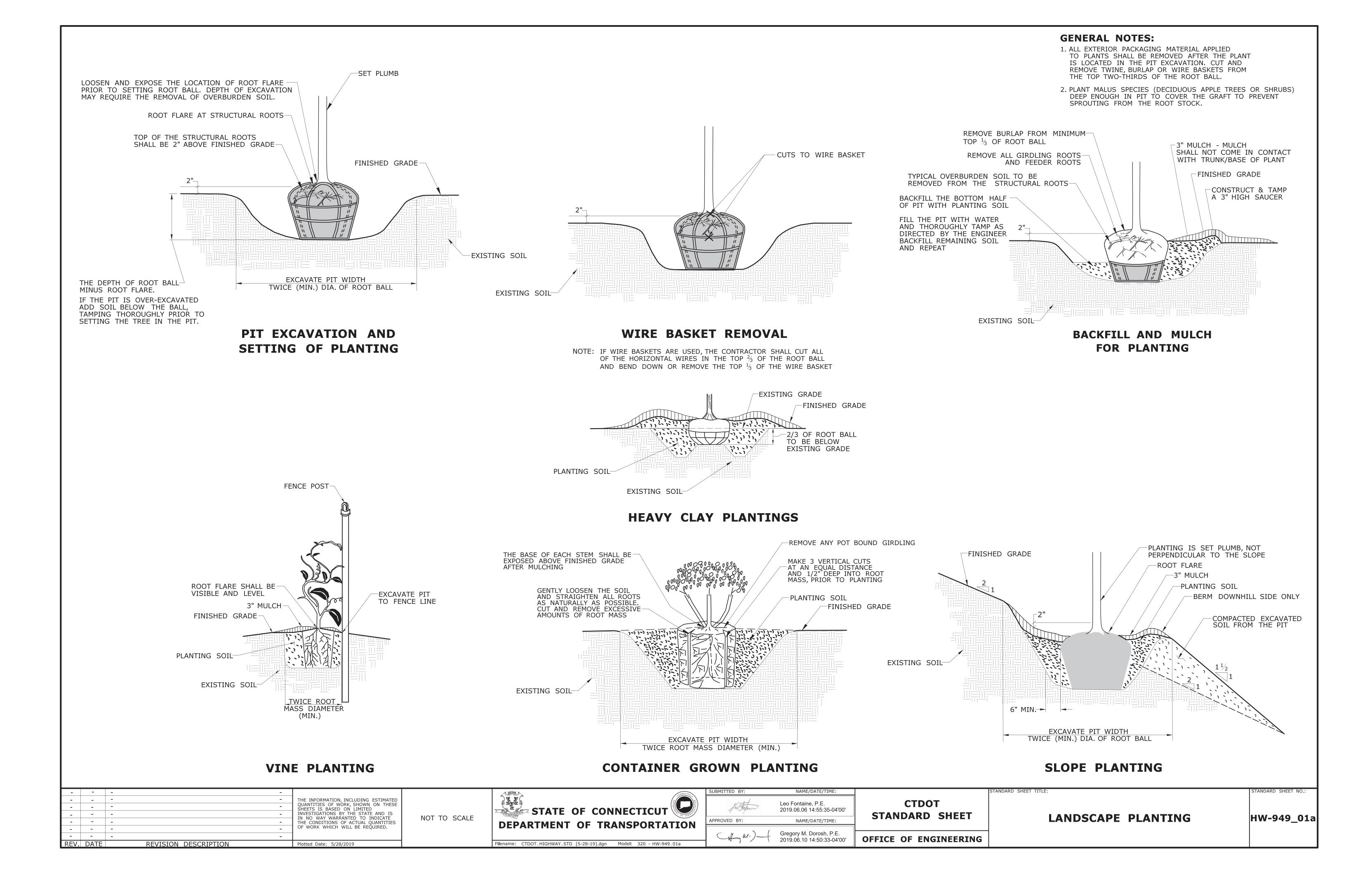
GENERAL NOTE:

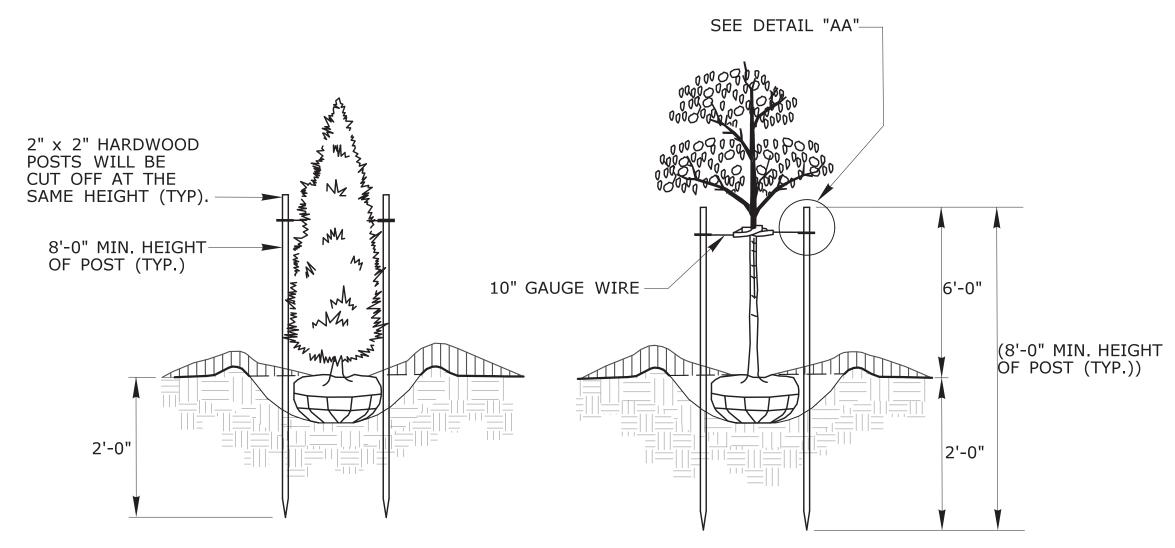
1. PRECAST CONCRETE CURBING MAY BE CAST BY THE MANUFACTURER WITH OPTIONAL LIFTING AND DOWEL BAR HOLES.

HW-811_01









-SEE DETAIL "BB" FLAG TYP. ─12 GAUGE GALVANIZED GUY WIRES $^{\!\!\!/}$ STAKES - 2" x 4" x 36" MIN. HARDWOOD LUMBER 2 1/2" DIAMETER AT THINNER (LOWER) END, NOTCHED 3" FROM THE TOP

DETAIL "BB" GUY WIRES AROUND TRUNK

ANCHOR TREE TO STAKES USING GALVANIZED GUY WIRES AND 3/8" MIN. INSIDE DIAMETER RUBBER HOSE

GUY WIRES SHOULD BE PLACED AT LEAST HALF WAY UP THE TRUNK

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. REV. DATE REVISION DESCRIPTION Plotted Date: 5/28/2019

NOT TO SCALE



NAME/DATE/TIME: Leo Fontaine, P.E. 2019.06.06 14:56:48-04'00' APPROVED BY: NAME/DATE/TIME: Gregory M. Dorosh, P.E. OFFICE OF ENGINEERING 2019.06.10 14:51:36-04'00'

CTDOT STANDARD SHEET

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT A STAKING PLAN FOR APPROVAL.

4. USE DOUBLE STRAND 12 GAUGE GALVANIZED GUY WIRE FOR DECIDUOUS

TREES GREATER THAN OR EQUAL TO 3" CALIPER AND USE DOUBLE STRAND 10 GAUGE GALVANIZED GUY WIRE FOR EVERGREEN TREES GREATER

STAKING FOR MULTI-STEMMED TREES

THE CONTRACTOR SHALL SUBMIT THE USE OF ANY OTHER MATERIALS FOR APPROVAL.

OR GREATER AND EVERGREEN TREES 8'HIGH OR GREATER

3. USE 3 POSTS FOR STAKING TREES 3" CALIPER

THAN OR EQUAL TO 8" CALIPER

8'-0" SUPPORT POST-

(2' MIN. EMBEDMENT)

DOUBLE STRAND 12 GAUGE — GALVANIZED WIRE TWIST TO

FINISHED— GRADE

ATTACH GUY WIRES TO TRUNKS AS DIRECTED-

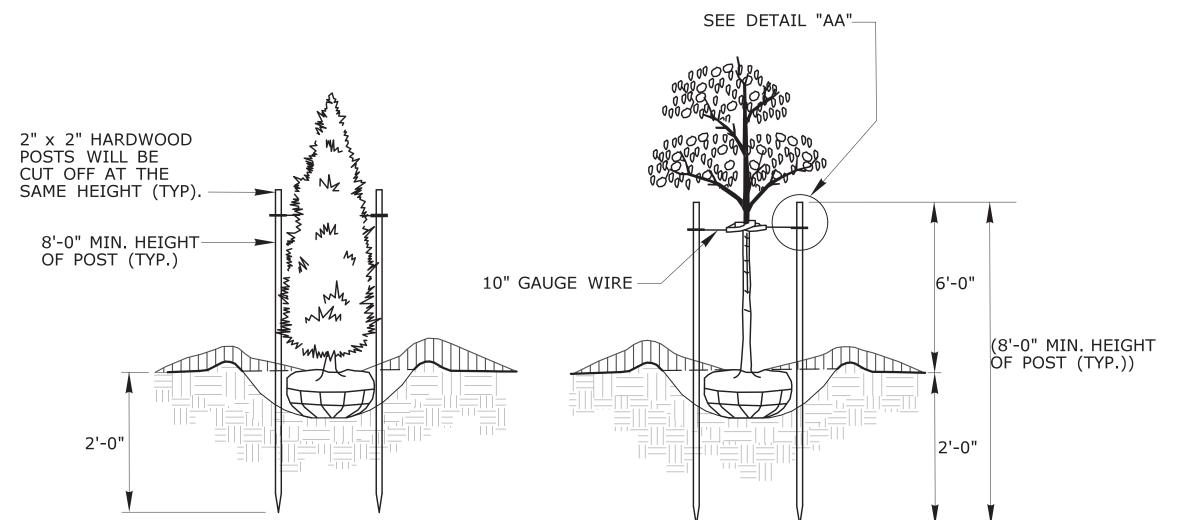
TIGHTEN.

EXISTING SOIL

TANDARD SHEET NO.:

TREE STAKING

HW-949 01b



TWO STAKES

DETAIL "AA"
POST AND GUY WIRE

INSIDE DIAMETER RUBBER HOSE

GUY WIRES SHOULD BE PLACED AT LEAST HALF WAY UP THE TRUNK

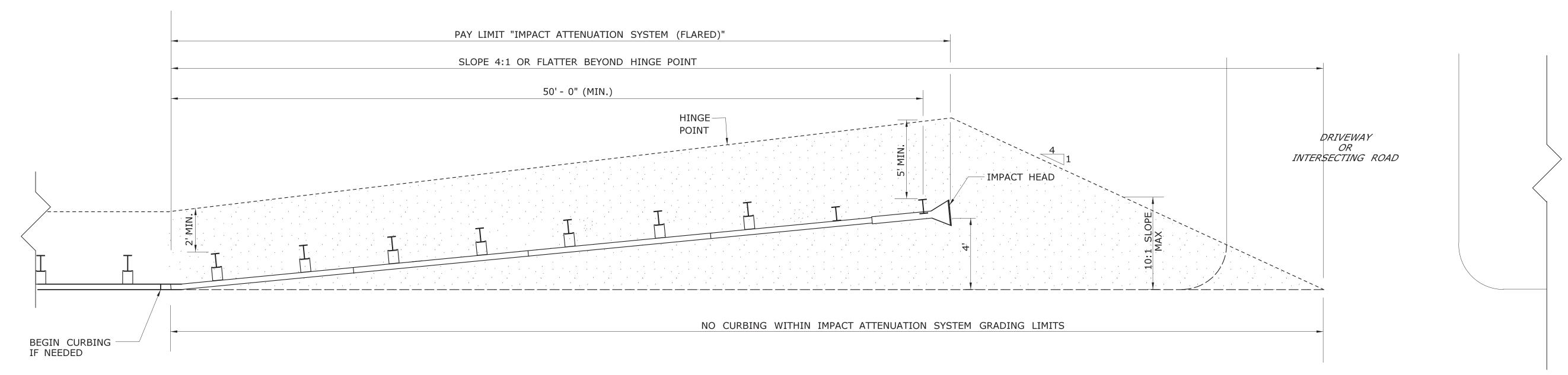
ANCHOR TREE TO POST(S) USING GALVANIZED GUY WIRE AND 3/8" MIN.

THREE GUYS AND STAKES

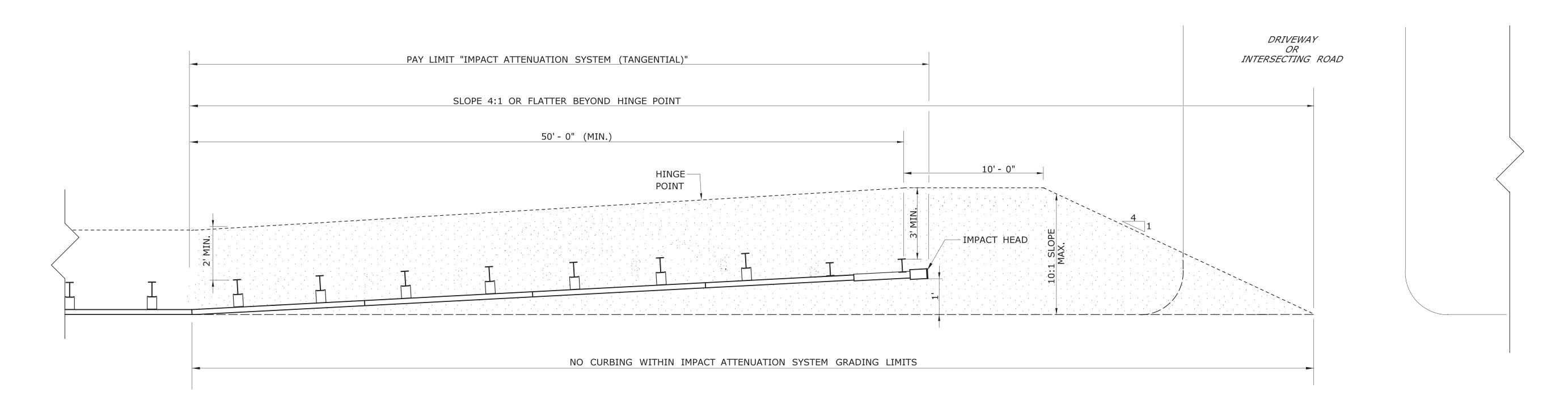
Filename: CTDOT_HIGHWAY_STD [5-28-19].dgn Model: 324 - HW-949_01b

GENERAL NOTE:

1. SEE TR-1205_01 FOR ATTENUATOR REFLECTOR SIGN #50-5032 TO BE INSTALLED ON THE NOSE OF THE IMPACT HEAD. THE HEIGHT AND WIDTH OF THE SHEET VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT HEAD. REFLECTOR SIGN SHALL COVER THE ENTIRE SURFACE AREA OF THE IMPACT HEAD.



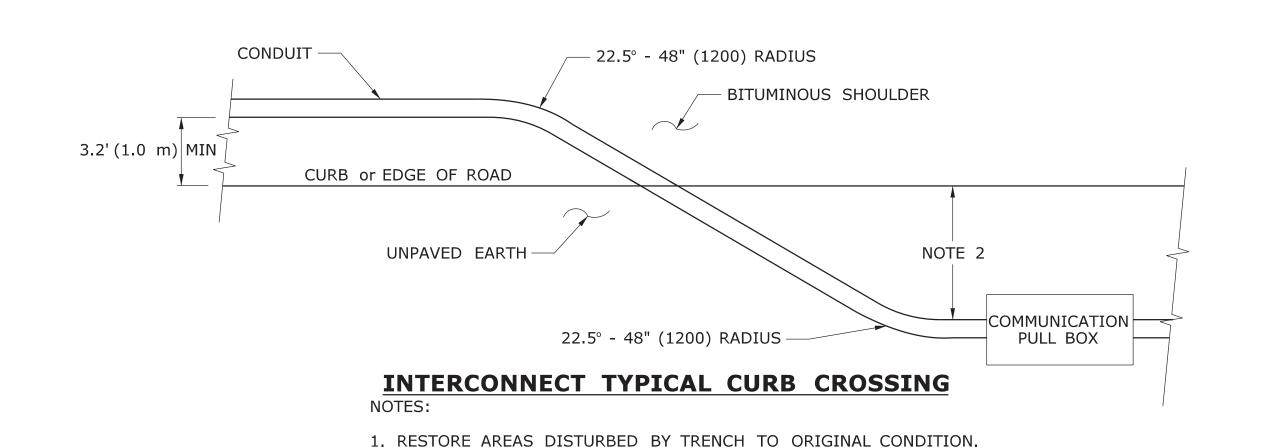
GRADING PLAN FOR IMPACT ATTENUATION SYSTEM (FLARED)



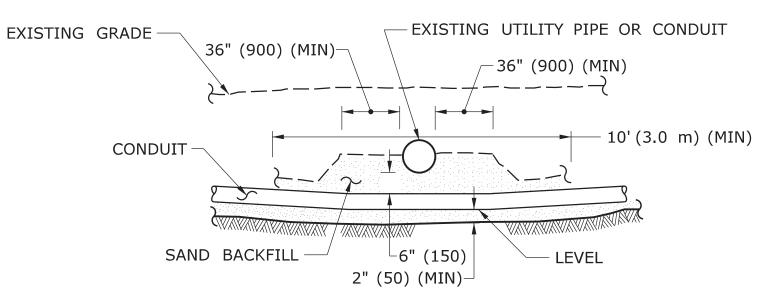
GRADING PIAN FOR IMPACT ATTENUATION SYSTEM (TANGENTIAL)

1 | 1/19 | COMBINED GRADING PLANS FOR FLARED AND TANGENTIAL

-	-	IMPACT ATTENUATION SYSTEMS AND REVISED GRADING LIMITS FOR FLARED SYSTEM	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS		STATE OF CONNECTICUT	Jew Frames	Leo Fontaine, P.E. 2019.01.24 07:38:14-05'00'	CTDOT STANDARD SHEET	GRADING PLAN FOR	
-			IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	NAME/DATE/TIME:	STANDARD SHEET	IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	HW-1800_01
REV	'. DATE	REVISION DESCRIPTION	Plotted Date: 1/23/2019		Filename: CTDOT_HIGHWAY_STD_[_1-23-19_].dgn Model: 328 - HW-1800_01	Stry W.)	Gregory M. Dorosh, P.E. 2019.01.24 10:44:19-05'00'	OFFICE OF ENGINEERING	(FLAKED AND TANGENTIAL)	



2. INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.

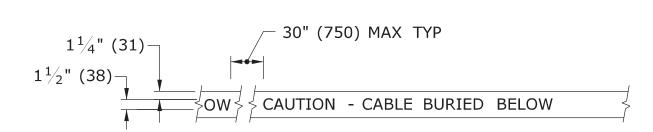


CROSSING UNDER EXISTING UTILITY

NOTES:

1. WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.

2. PROTECT & SUPPORT EXPOSED EXISTING UTILITY.

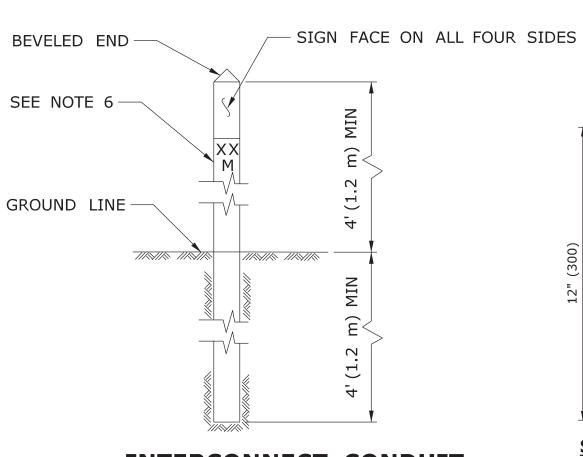


DETECTABLE WARNING TAPE

NOTE:

STANDARD SPECIFICATIONS, ARTICLE: 1.05.15

1. TAPE COLORS: COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND POWER - RED BACKGROUND / BLACK LEGEND

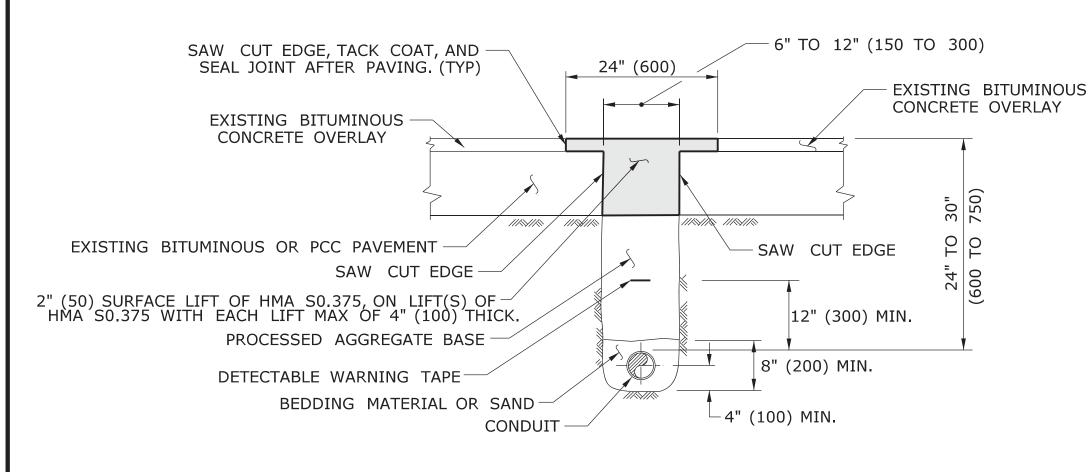


$2^{3}/_{4}$ " (69) (TYP) $\frac{1}{2}$ " (13) (TYP) COMMUNICATION † BURIED BELOW CALL BEFORE YOU DIG 1 - 800 922 - 4455 SIGN FACE DETAIL SIGN # 41-4669

INTERCONNECT CONDUIT **IDENTIFICATION POST**

NOTES:

- 1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
- 2. ATTACH SIGN TO POST WITH $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
- 3. SIGN COLORS: BACKGROUND ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
- 4. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
- 5. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
- 6. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.

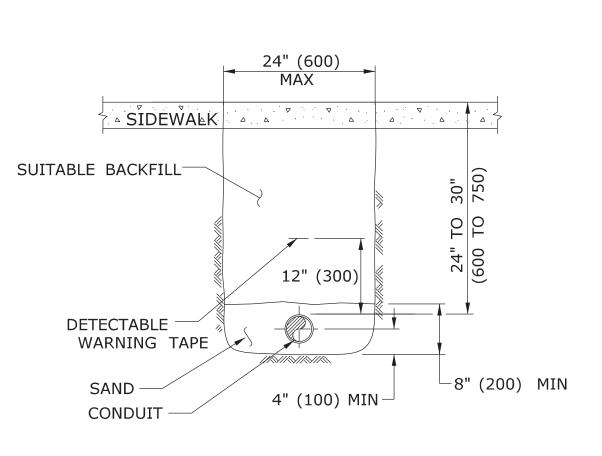


PAVEMENT - BITUMINOUS CONCRETE OR **OVERLAYED PORTLAND CEMENT CONCRETE**

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03

- 1. TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
- 2. WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.



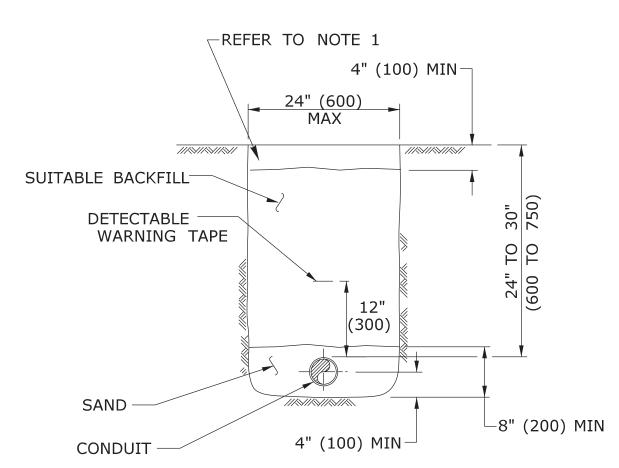
SIDEWALK

Model: TR-1001_01

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22

1. WHERE CONCRETE SIDEWALK DAMAGED OR CUT, REPLACE THE ENTIRE SECTION BETWEEN JOINTS. REPLACEMENT SIDEWALK IS PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".



GENERAL NOTES:

- 1. TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.
- 2. COMPACT BACKFILL IN ≤6" (150) LIFTS. HAND COMPACTION NOT PERMITTED.

EARTH

NOTES: STANDARD SPECIFICATIONS, ARTICLE: 9.50

1. IN MOWED AREAS: PLACE TOPSOIL, FERTILIZER, SEED, & MULCH.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN: -- RMC (RIGID METAL CONDUIT)

1	4-2012	DEVISED BITHMINOUS CONDUCTE TO HMA & MINOD DEVISIONS	THE INFORMATION, INCLUE QUANTITIES OF WORK, SH SHEETS IS BASED ON LIN INVESTIGATIONS BY THE IN NO WAY WARRANTED THE CONDITIONS OF ACTUOF WORK WHICH WILL BE
Т	4-2012	REVISED BITUMINOUS CONRCETE TO HMA, & MINOR REVISIONS.	
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 4/14/2012

MENSIONS ARE IN ENGLISH ('." RMATION, INCLUDING ESTIMATED ES OF WORK, SHOWN ON THESE S BASED ON LIMITED ATIONS BY THE STATE AND IS MAY WARRANTED TO INDICATE & METRIC UNITS (mm). ETRIC DIMENSIONS ARE ROUNDED: OVER 1" TO NEAREST 5 mm UNDER 1" TO NEAREST 1 mm. DITIONS OF ACTUAL QUANTITIES WHICH WILL BE REQUIRED. NOT TO SCALE



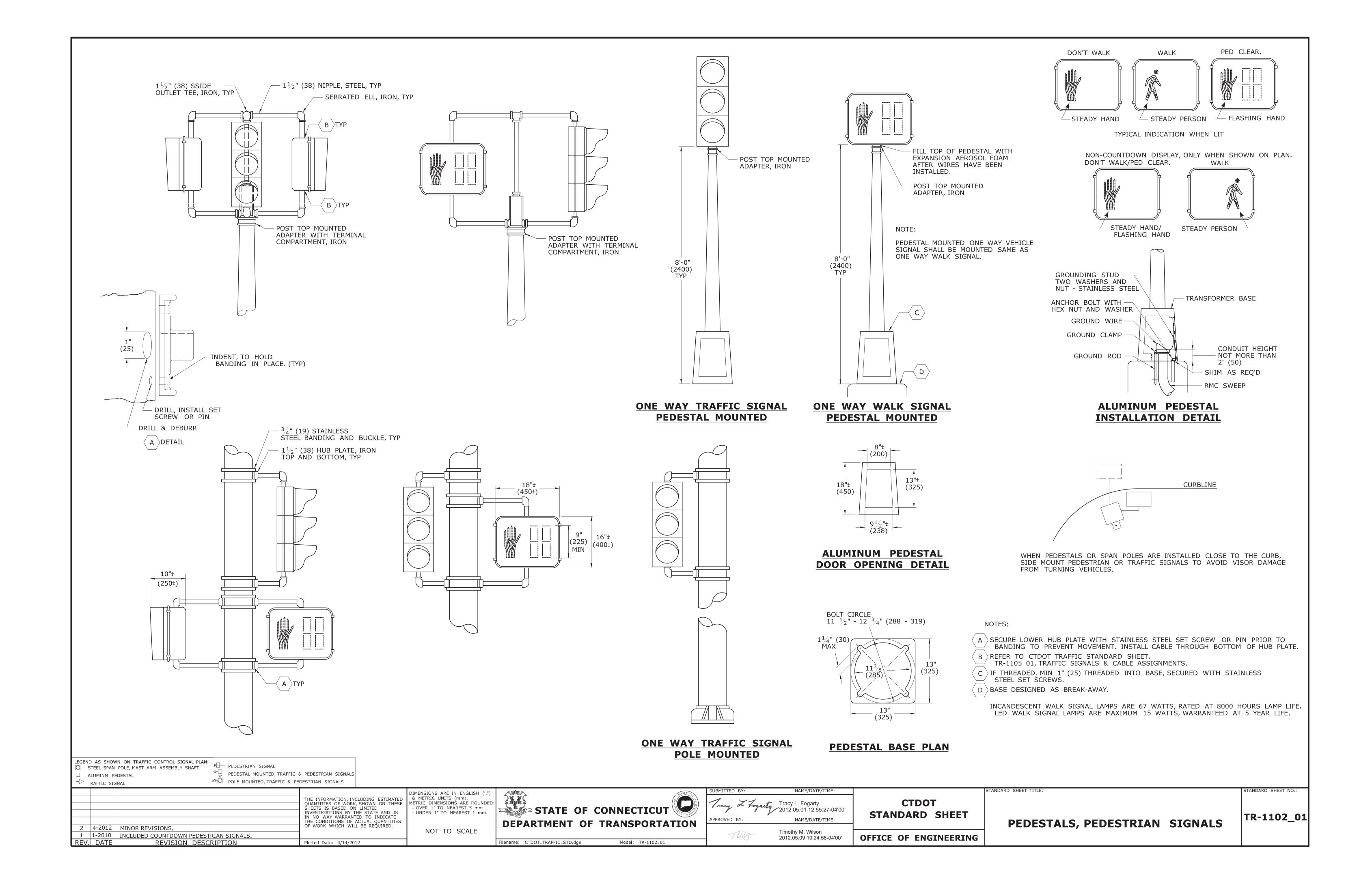
NAME/DATE/TIME: Tracy L. Fogarty 2012.05.01 12:54:42-04'00' PPROVED BY: NAME/DATE/TIME: Timothy M. Wilson TWILE 2012.05.09 10:23:34-04'00'

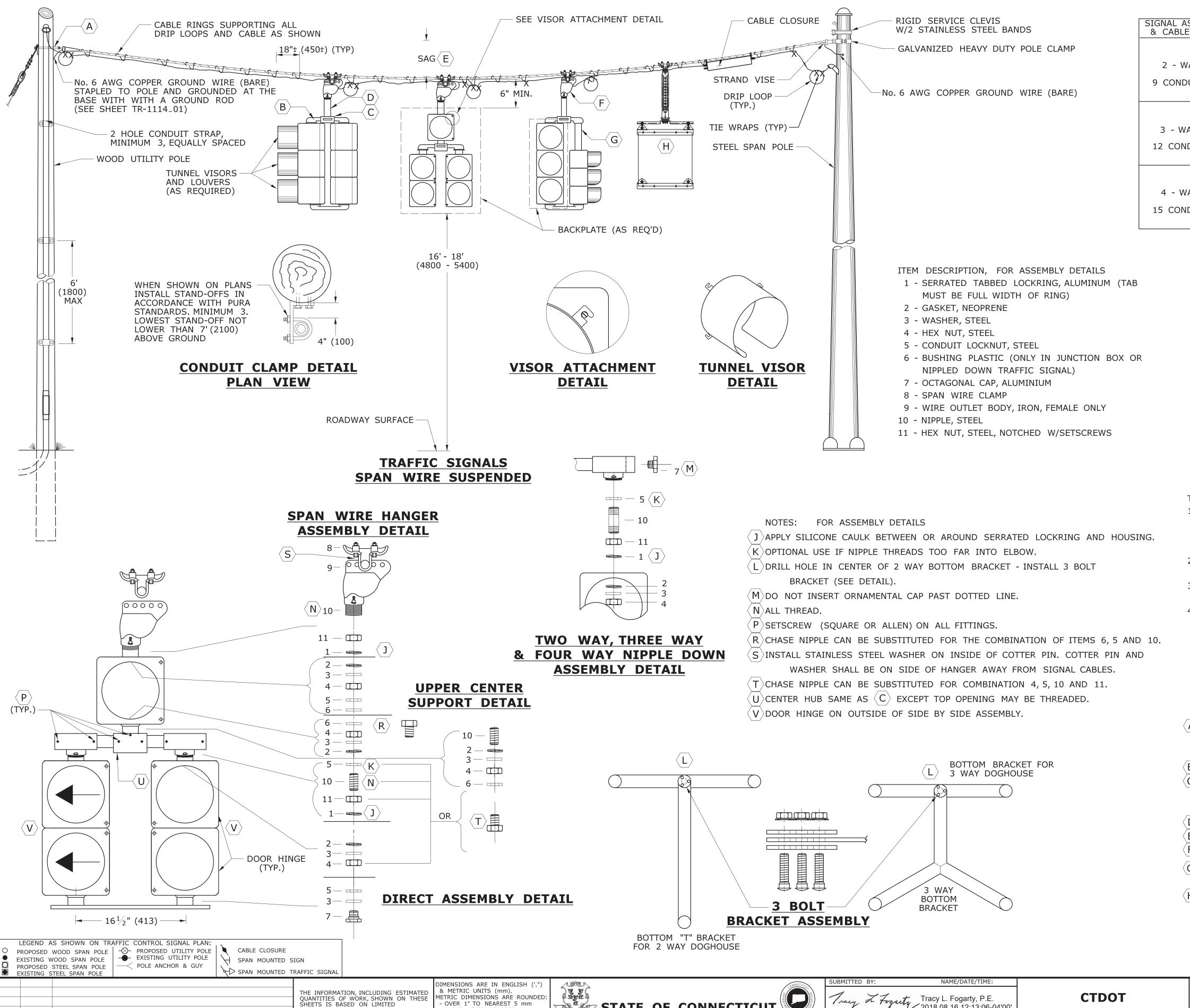
CTDOT STANDARD SHEET OFFICE OF ENGINEERING

TRENCHING & BACKFILLING, **ELECTRICAL CONDUIT**

TR-1001_01

TANDARD SHEET NO.:





STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD_2018-05-21.dgn Model: TR-1105_01

METRIC DIMENSIONS ARE ROUNDED: OVER 1" TO NEAREST 5 mm

UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE

THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/22/2018

4 | 1-2018 | REVISED GROUNDING NOTE FOR SPAN AND OTHER MINOR REVISIONS

REVISION DESCRIPTION

3 3-2015 REMOVED STRAIN INSULATOR.

2 5-2013 MINOR REVISIONS

4-2012 MINOR REVISIONS

TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS

SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2
	RED	RED		BLACK	
2 14/41/	YELLOW	ORANGE		WHITE \ BLACK	
2 - WAY	GREEN	GREEN		BLUE	
9 CONDUCTOR	SPARE	GREEN\BLACK		RED \ BLACK	
	NEUTRAL	WHITE			
	RED	RED	RED \ BLACK	BLACK	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	
3 - WAY	GREEN	GREEN	GREEN \ BLACK	BLUE	
12 CONDUCTOR	SPARE	BLUE\BLACK	BLACK \ WHITE		
	NEUTRAL	WHITE			
	RED	RED	RED \ BLACK	BLACK	RED \ WHITE
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE
4 - WAY	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE
15 CONDUCTOR	SPARE	BLUE\BLACK		BLUE \ WHITE	
	NEUTRAL	WHITE			

PEDESTRIAN SIGNAL CARLE COLOR ASSIGNMENTS

PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS					
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	WIRE COLOR			
	DON'T WALK	RED			
WALK SIGNAL	WALK	GREEN			
W/ PUSHBUTTON	NEUTRAL FOR WALK SIGNAL	WHITE			
	PEDESTRIAN PUSHBUTTON	BLACK			
7 CONDUCTOR	NEUTRAL FOR PUSHBUTTON	ORANGE			
	SPARE CONDUCTOR	WHITE \ BLACK			
	SPARE CONDUCTOR *	BLUE \ BLACK			
WALK SIGNAL	RED	RED			
W/ PUSHBUTTON	YELLOW	ORANGE			
,	GREEN	GREEN			
7 CONDUCTOR	NEUTRAL FOR TRAFFIC SIGNAL	WHITE			
	PEDESTRIAN PUSHBUTTON	BLACK			
	NEUTRAL FOR PUSHBUTTON	WHITE \ BLACK			
	SPARE CONDUCTOR *	BLUE \ BLACK			
* IE 14/7 FEEDC	MODE THAN ONE BUTTON SDITT	,			

* IF 14/7 FEEDS MORE THAN ONE BUTTON, SPLIT THE BUTTONS AND USE BLUE WITH BLACK TRACER FOR THE ADDITIONAL BUTTON.

TABLE NOTES:

- 1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
- 2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
- 3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
- 4. REFER TO STANDARD SHEET TR-1113_01 FOR CABLE CLOSURE TYPE A.

NOTES:

CTDOT

STANDARD SHEET

OFFICE OF ENGINEERING

Tracy L. Fogarty, P.E. 2018.08.16 12:13:06-04'00'

NAME/DATE/TIME:

2018.08.21 07:46:03-04'00'

Mark F. Carlino, P.E.

APPROVED BY:

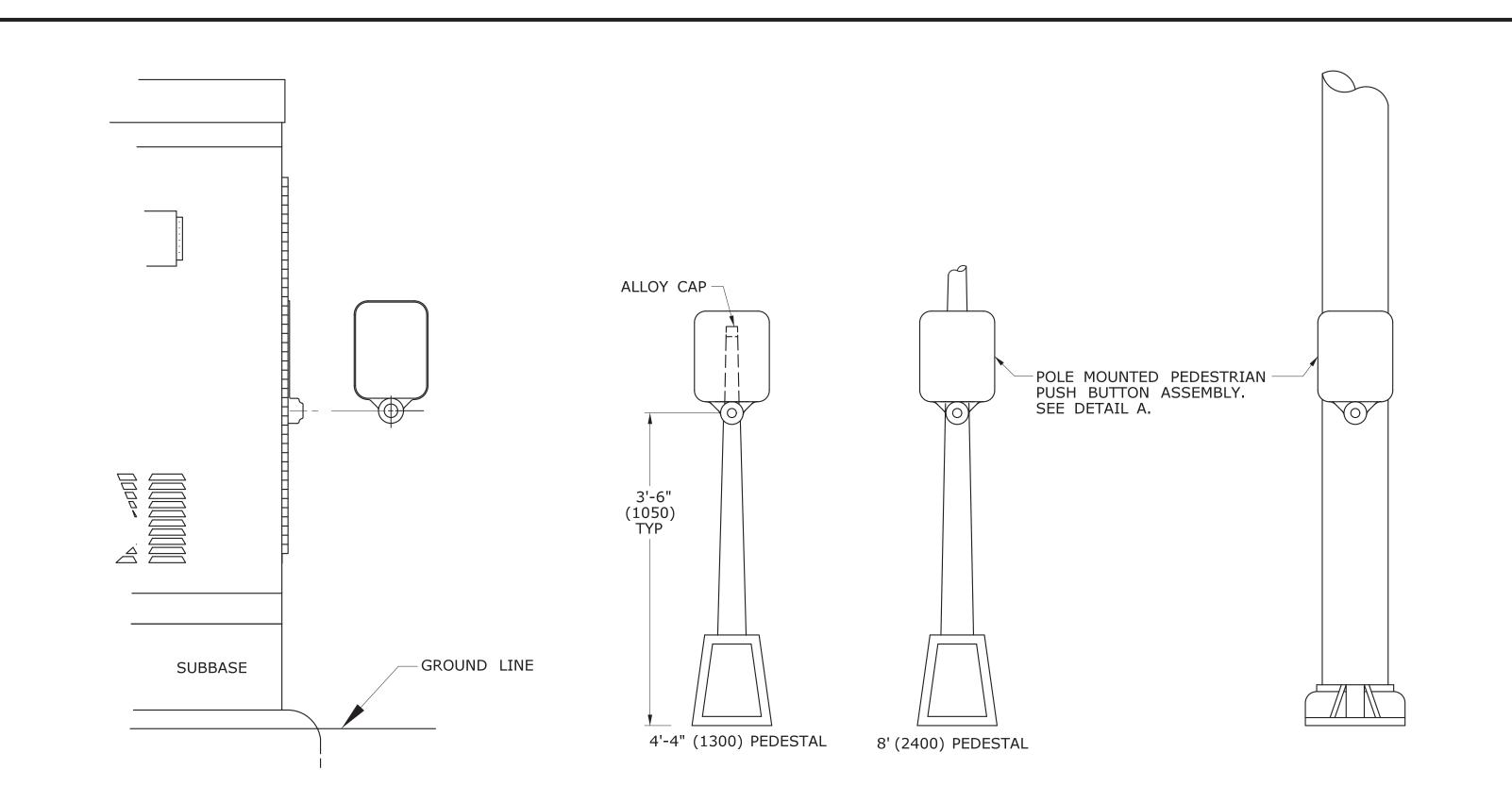
- SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE.
- ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT PURA REGULATIONS AND NESC RULES.
- (A) ATTACH SPAN AT LEAST 12" (300) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 40" (1000) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
- (B) ELBOW OR "T" FITTING MUST HAVE NOTCH FOR SERRATED TABBED LOCKRING.
- $\langle \mathsf{C}
 angle$ TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.
- (D) NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
- \langle Eangle SAG OF SPAN TO BE 5% $^{+}$ LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.
- $\langle \mathsf{F} \rangle$ FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE.
- (G) INSTALL EXTENSION NIPPLE ON TOP OF SIGNAL HOUSING SO BOTTOM OF ALL SIGNALS
- ⟨H⟩ REFER TO TR-GS_01 "SIGN FACE SHEET ALUMINUM, R-SERIES SIGNS TYPICAL DETAILS", AND TO TR-1114_01 FOR SIGN HANGER ASSEMBLY. MAXIMUM SIGN SIZE 36" X 36" (900 X 900). ALL STAINLESS STEEL HARDWARE.

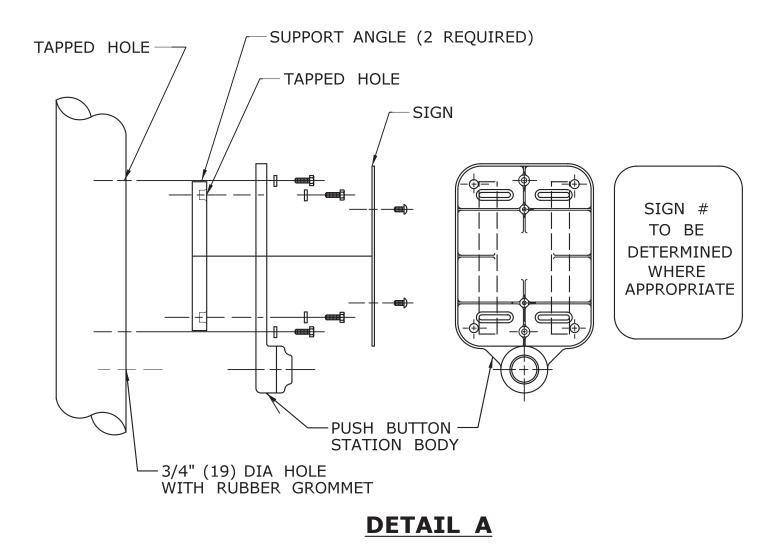
SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

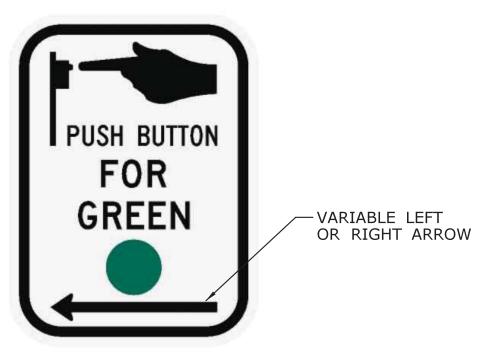
TRAFFIC SIGNALS & CABLE ASSIGNMENTS

TR-1105_01

FANDARD SHEET NO.:







SIGN # 31-0833 USE APPROPRIATE LEFT OR RIGHT ARROW



SIGN # 31-0835

FOR CROSSING WITH SIDE STREET GREEN

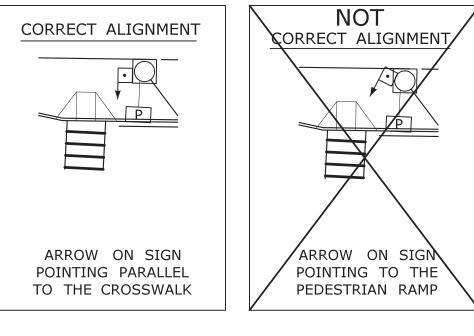
SURFACE MOUNTED

PEDESTAL MOUNTED

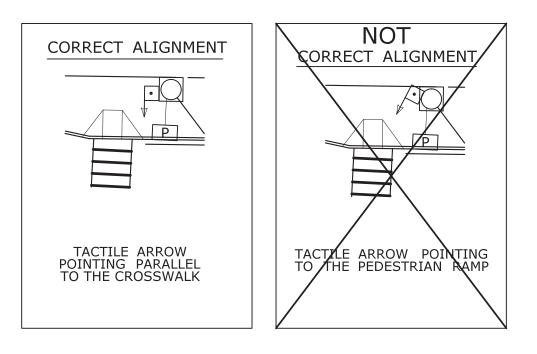
SPAN POLE/MAST ARM **MOUNTED**

GENERAL NOTES:

3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON. PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, CURRENT EDITION GOVERNS. 4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS STEEL SET SCREW.







ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR

EXAMPLE ALIGNMENTS FOR EXCLUSIVE PEDESTRIAN PHASE



*USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

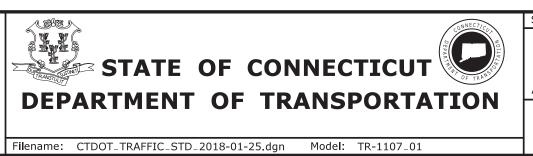
FOR NEW PUSHBUTTON HOUSING, USE 9" x 15" SIGN NO. 31-0856.

FOR EXISTING PUSHBUTTON HOUSING, WITH 9" x 12" SIZE, USE SIGN NO. 31-0845.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN: PEDESTRIAN PUSH BUTTON PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED PEDESTRIAN PUSH BUTTON, POLE MOUNTED

3 2		ADDED PEDESTRIAN EXAMPLE ALIGNMENTS	THE INFORMATION, INCLUDING ES QUANTITIES OF WORK, SHOWN OF SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE A IN NO WAY WARRANTED TO IND THE CONDITIONS OF ACTUAL QUANT OF WORK WHICH WILL BE REQUI
1	4-2012	MINOR REVISIONS & UPDATED SIGN #31-0845.	
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/9/2018

IMENSIONS ARE IN ENGLISH ('.") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm. AND IS NDICATE UANTITIES UIRED. NOT TO SCALE

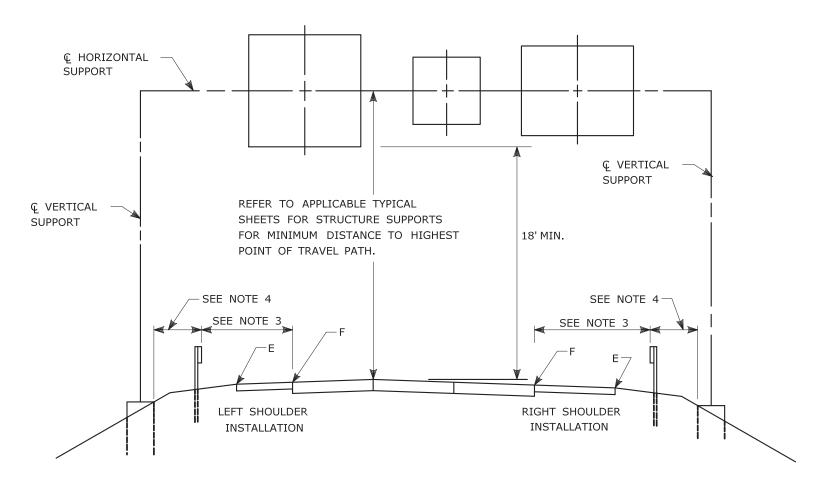


SUBMITTED BY:	NAME/DATE/TIME:
Tracy Togarty	Tracy L. Fogarty, P.E. 2018.08.16 12:13:35-04'00'
APPROVED BY:	NAME/DATE/TIME:
MFCR	Mark F. Carlino, P.E. 2018.08.21 07:46:57-04'00'

CTDOT					
STANDARD SHEET					
OFFICE OF	ENGINEERING				

PEDESTRIAN PUSH BUTTONS

TR-1107_01



TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE

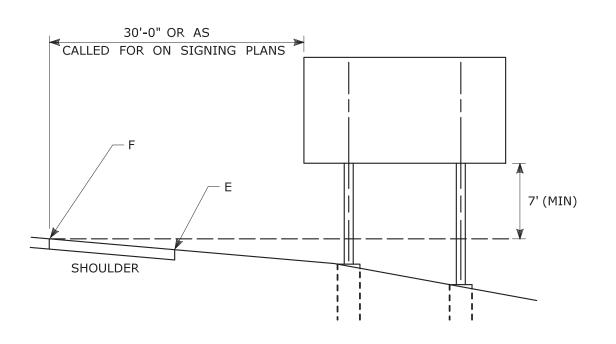
PORTION OF ABOVE DETAIL.

2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.

3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.

4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.

5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON

STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

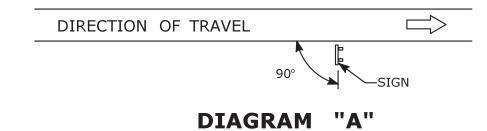
1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.

2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE

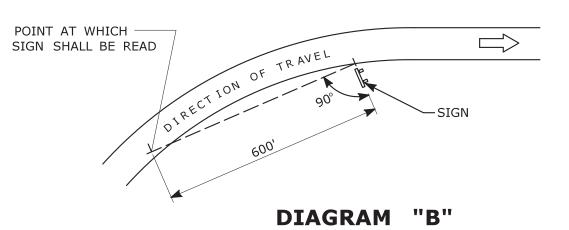
SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS. 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR

EDGE OF OF SIGN FACE SHALL BE 6'MIN. FROM POINT "E". 4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER. FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

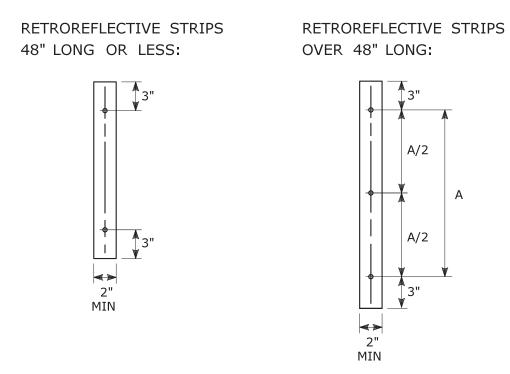
ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.



ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.



SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS



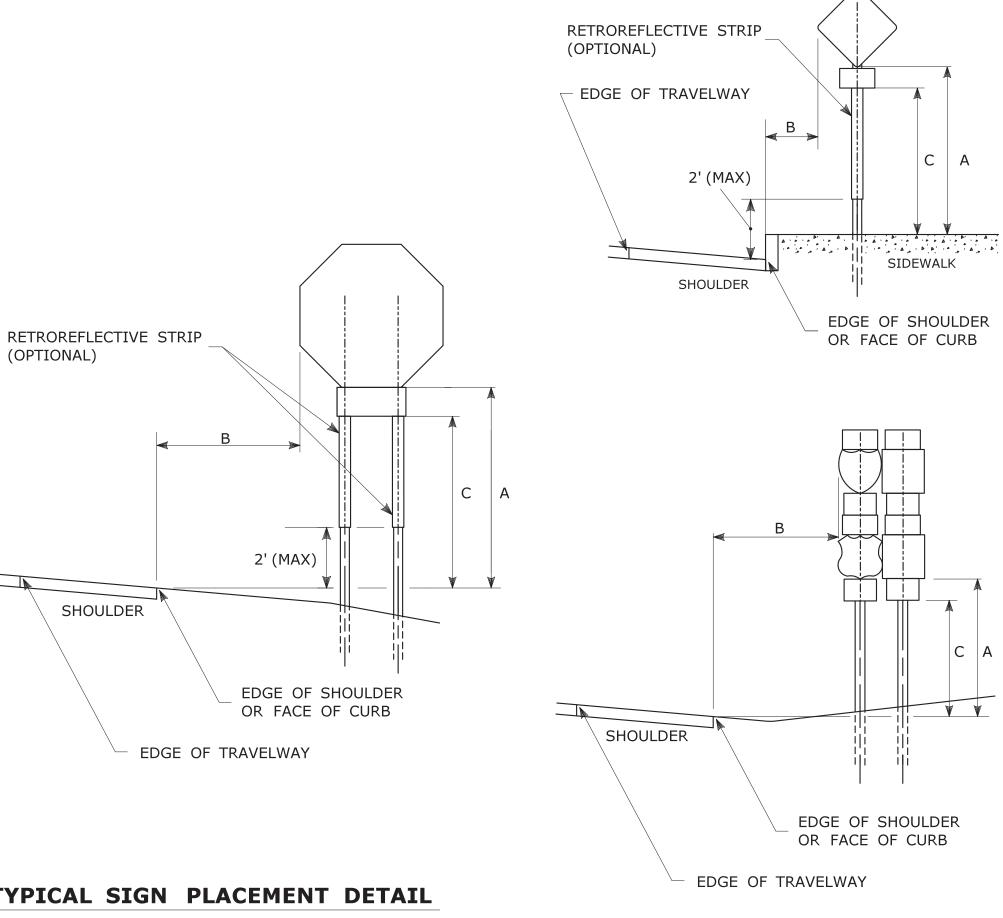
RETROREFLECTIVE STRIP DETAIL

NOTES:

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON

THE DETAILS ABOVE. REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND



TYPICAL SIGN PLACEMENT DETAIL

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

IF A RETFOREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM.", MIN S HEIGI	IGN	DIM." MIN LA OFFS		DIM."C" MIN PLAQUE HEIGHT 1	ASSEMBLY LOCATION
7' ,	2	6' 12'	3	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'		2'		4'	• SIGNS IN RURAL AREAS • DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'		2'		N/A	CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS
4'		6' 12'	3	N/A	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
4'		2'		4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'		2'	4	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'		2'	4	7'	SIDEWALKS (5)

 $\langle 1 \rangle$ OR AS DIRECTED BY THE ENGINEER

2 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE 12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

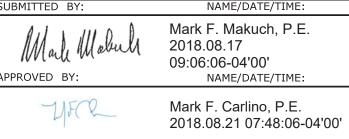
(5) A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES 3 8-2018 INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS. THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. 2 4-2017 MINOR REVISIONS 2-2011 MINOR REVISIONS REVISION DESCRIPTION Plotted Date: 8/10/2018

NOT TO SCALE



"DO NOT ENTER" SIGNS SHALL BE RED.



CTDOT STANDARD SHEET NAME/DATE/TIME:

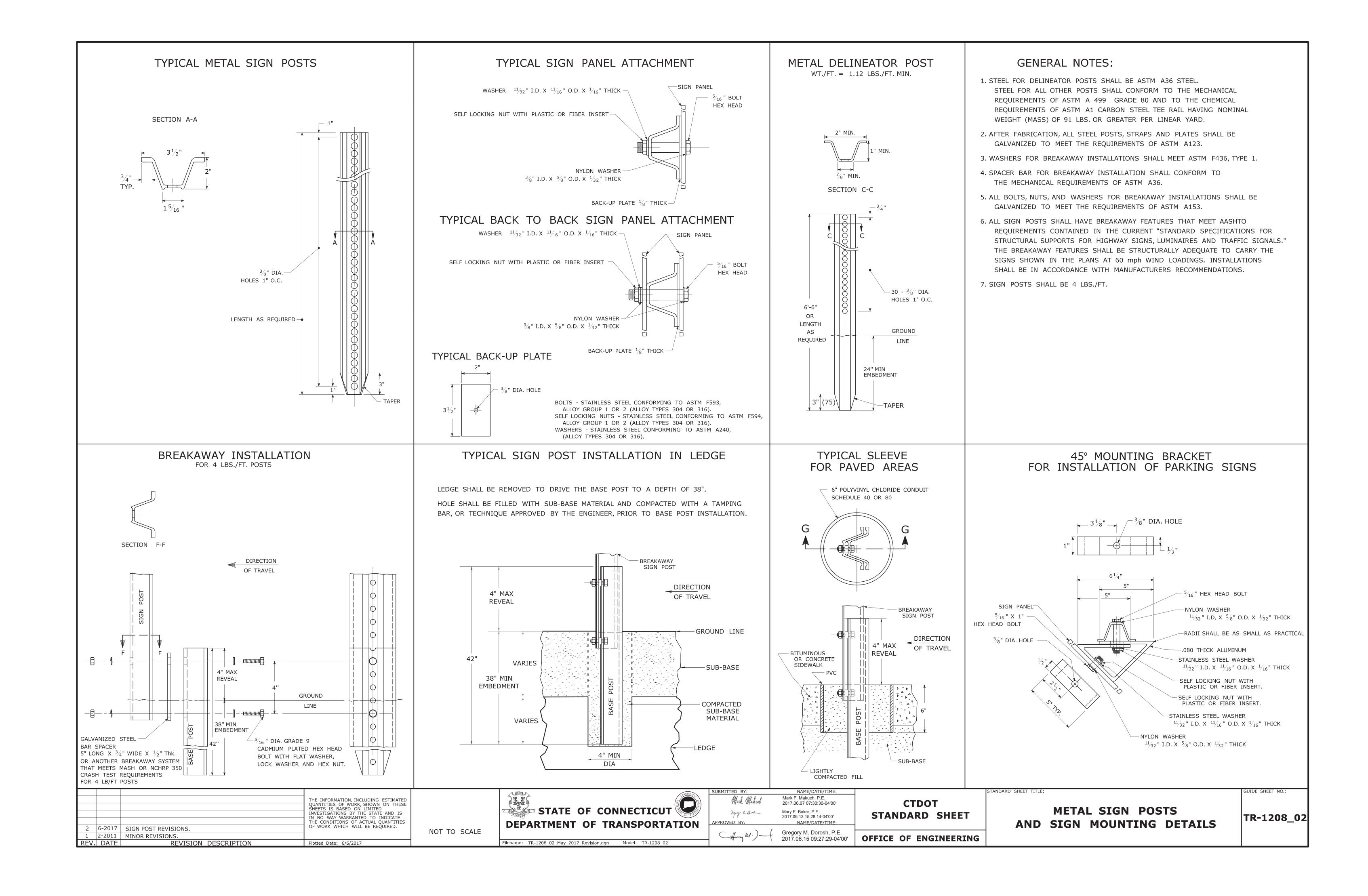
SIGN PLACEMENT AND

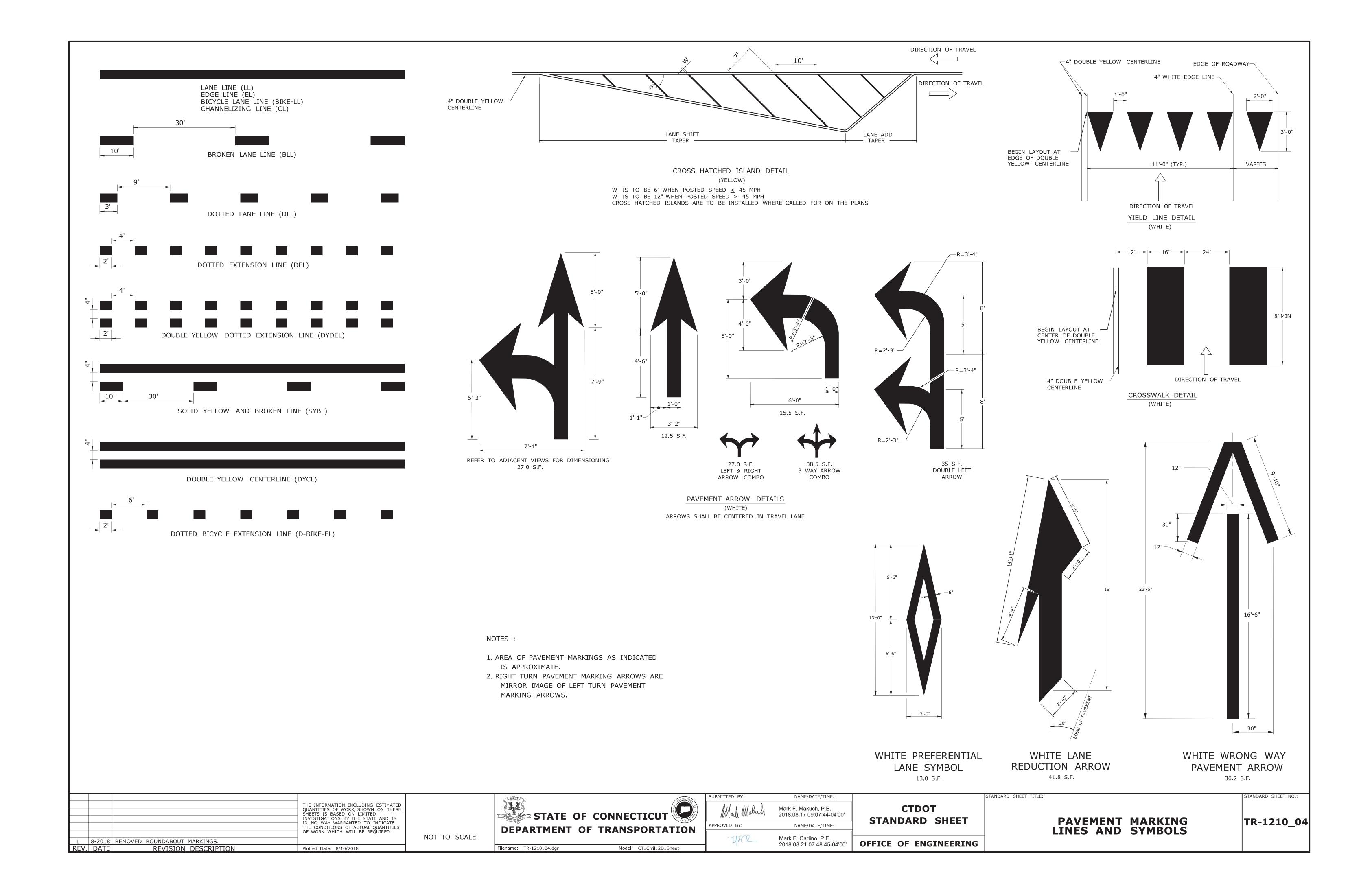
TR-1208_01

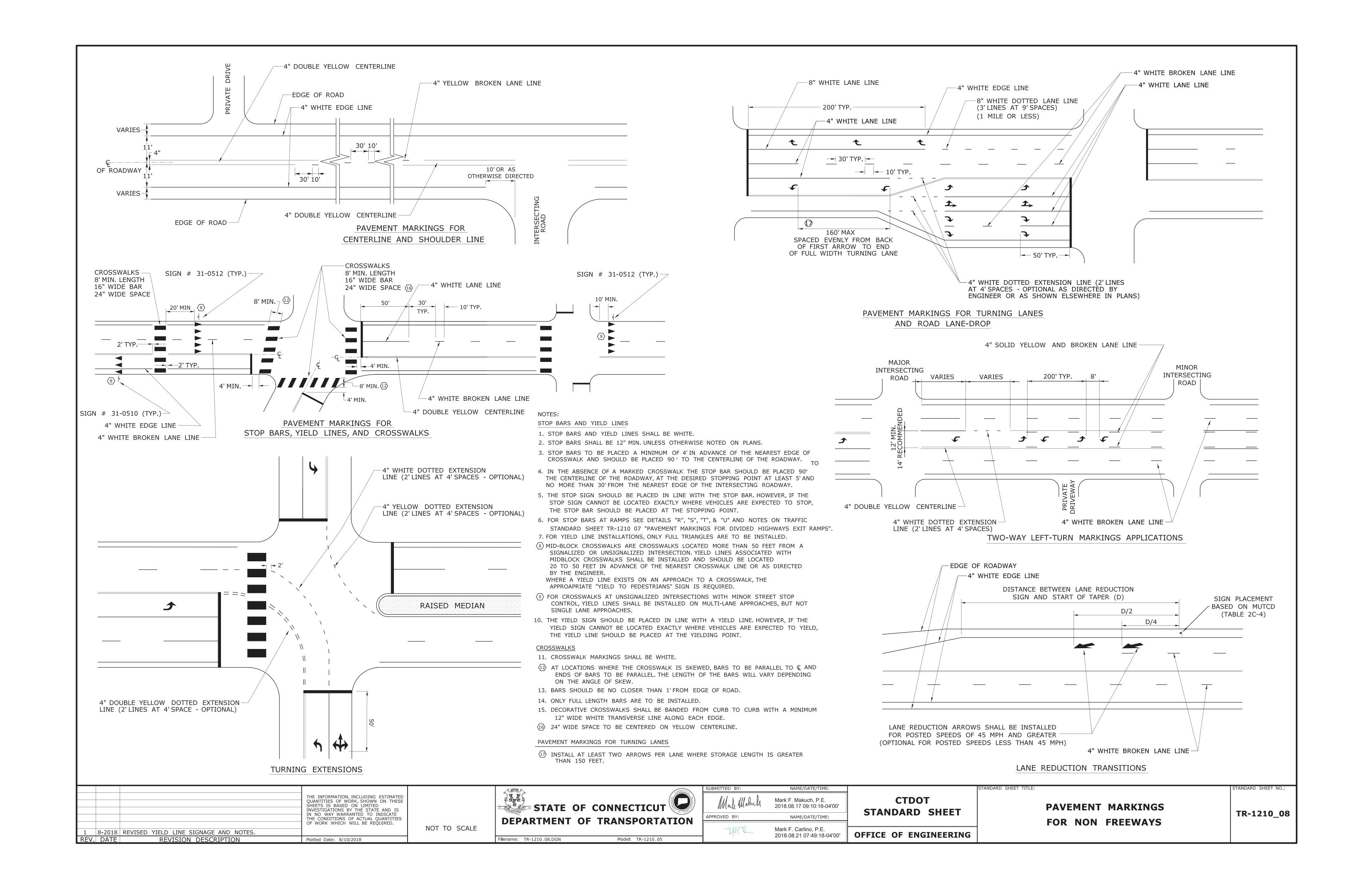
FANDARD SHEET NO.:

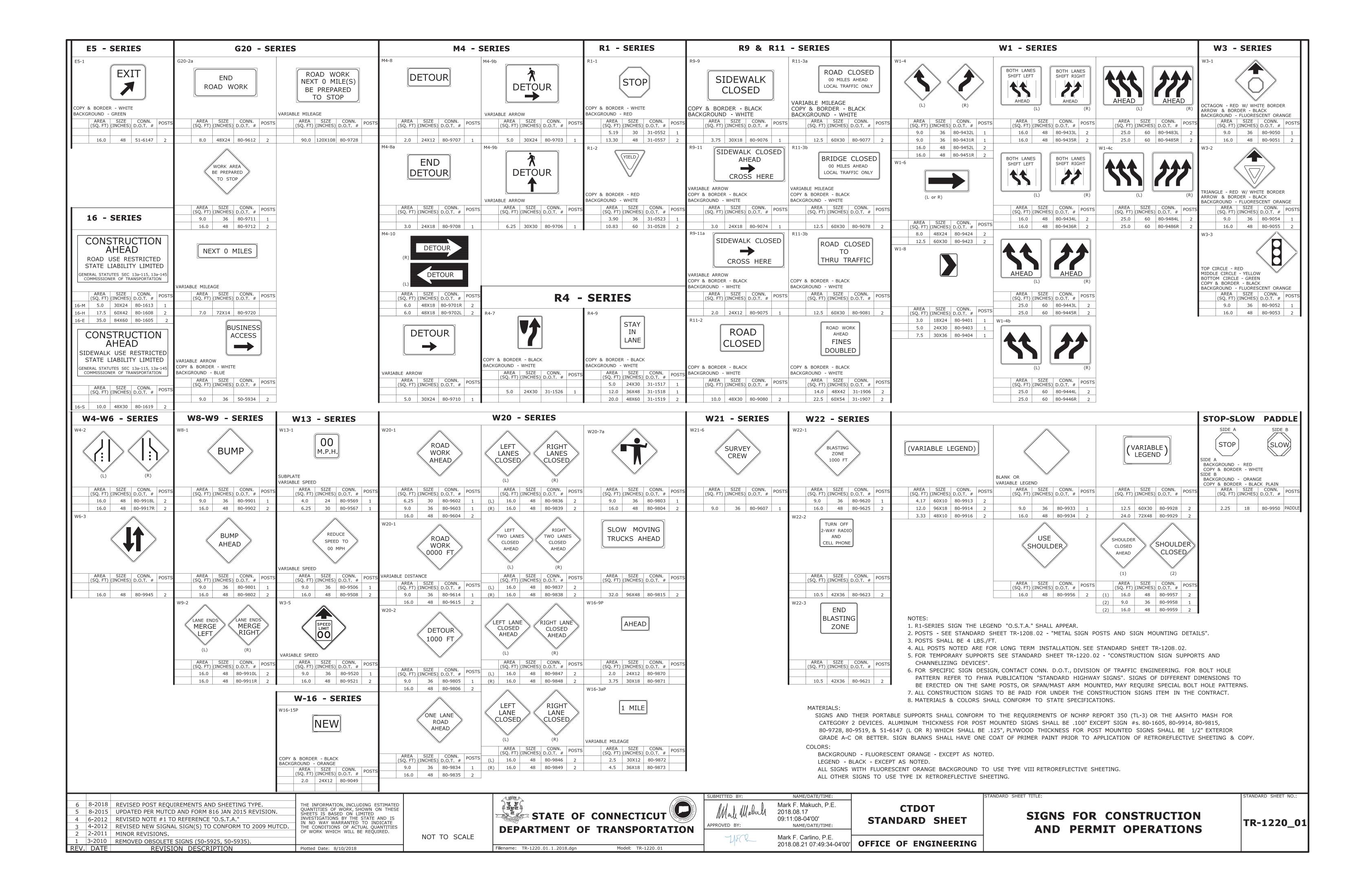
Filename: TR_1208_01_1_2018.dgn Model: TR-1208_01 OFFICE OF ENGINEERING

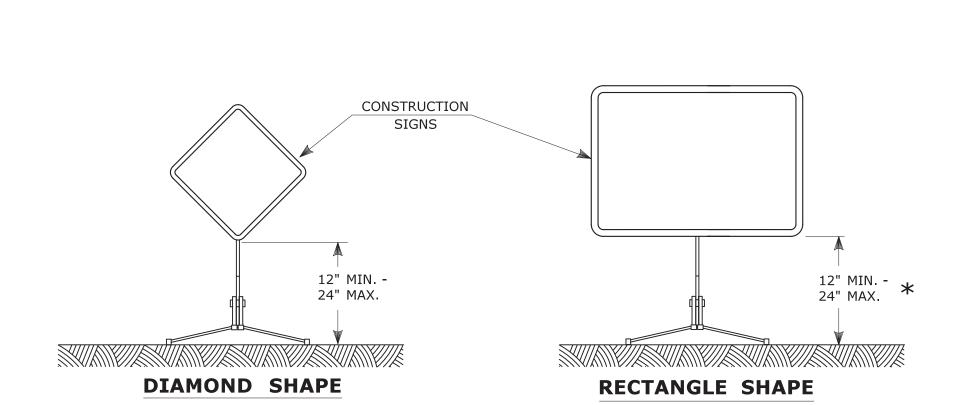
RETROREFLECTIVE STRIP DETAILS







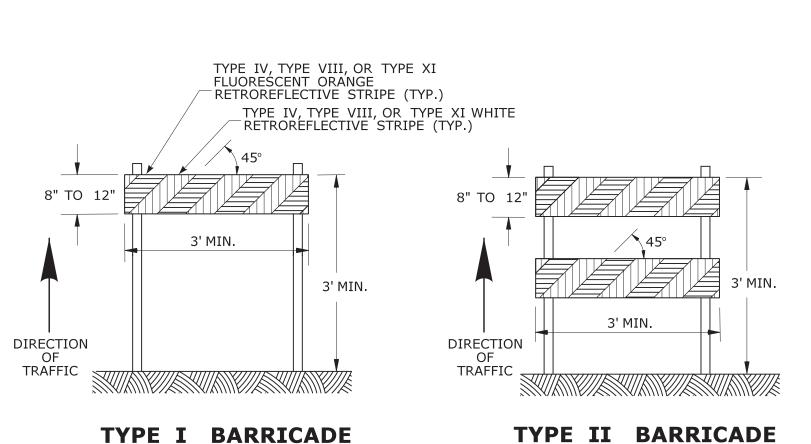




PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- 1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER
- 3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- 5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220_01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.
- * FOR E5-1 (EXIT SIGNS) USE MIN 48".



5' MIN. **DIRECTION** TRAFFIC 4' MIN.

TYPE III BARRICADE

NOT TO SCALE

CONSTRUCTION BARRICADES

NOTES:

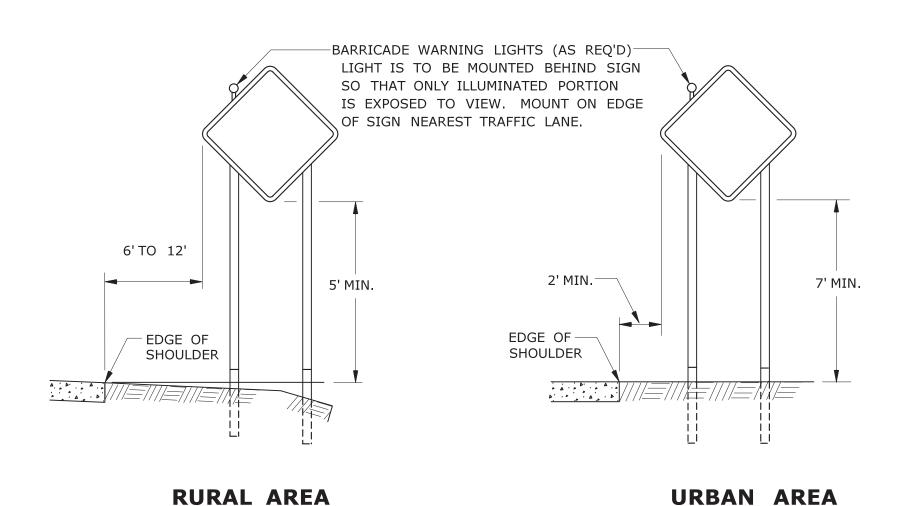
- 1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- 2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- 3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- 6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.

TYPE IV OR TYPE VIII FLUORESCENT ORANGE RETROREFLECTIVE STRIPE TYPE IV OR TYPE VIII WHITE RETROREFLECTIVE STRIPE — -CENTERED ON TYPE IV OR TYPE VIII FLUORESCENT ORANGE SECTION (TYP.) RETROREFLECTIVE STRIPE TYPE IV OR TYPE VIII WHITE RETROREFLECTIVE STRIPE -

42" TRAFFIC CONE

NOTES:

- 1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- 3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



PLACEMENT OF CONSTRUCTION SIGNS

TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES. REFER TO STANDARD SHEETS:

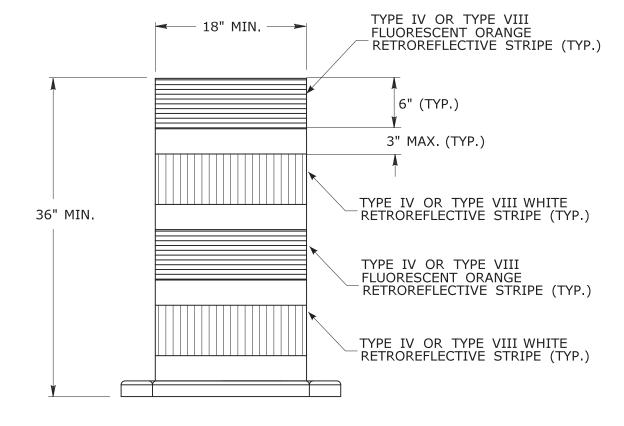
TR-1208_01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS." TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."

WHITE RETROREFLECTIVE STRIPE 3" TO 4 TYPE VI WHITE RETROREFLECTIVE STRIPE 28" MIN.

TRAFFIC CONE

NOTES:

- 1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- 3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 6. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- 7. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC DRUM **FRONT VIEW**

NOTES:

- 1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

3 2 1	8-2018 8-2015 2-2011	0.0///20 0.122121/0.1127///0.0020//	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/10/2018

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** Filename: TR-1220_02_3_2018.dgn Model: TR-1220_02

NAME/DATE/TIME: PPROVED BY:

Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00' NAME/DATE/TIME: Mark F. Carlino, P.E. 2018.08.21 07:49:51-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

TR-1220_02

TANDARD SHEET NO.: