

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY, 2016 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (2014) WITH 2016 INTERIMS, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL 2003 AND MERRITT PARKWAY BRIDGE RESTORATION GUIDE (2002).

DESIGN STRENGTH:

CLASS 'C' REPLICATED: F'C=3000 PSI
 CLASS 'S' CONCRETE: F'C=3000 PSI
 CLASS 'S' CONCRETE FOR HISTORIC BRIDGES: F'C=3000 PSI
 CLASS 'F' CONCRETE: F'C=4000 PSI
 REINFORCEMENT: ASTM A615 GRADE 60, FY=60 KSI

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, F'C, OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6.01 CONCRETE FOR STRUCTURES.

FUTURE PAVING ALLOWANCE: NONE

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS 'MAINTENANCE AND PROTECTION OF TRAFFIC' AND 'PROSECUTION AND PROGRESS'

CONCRETE REPAIRS: ALL CONCRETE REPAIRS SHALL BE HISTORIC UNLESS SPECIFIED OTHERWISE

UTILITIES: THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES BEFORE BRIDGE WORK BEGINS. REFER TO NOTICE TO CONTRACTOR - NOTIFICATION OF UTILITIES.

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: THE DIMENSIONS SHOWN ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.

ALL REINFORCEMENT SHALL BE UNCOATED. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS".

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

STAGING OF BRIDGE WORK: STAGING ALONG THE MERRITT PARKWAY FOR WORK AT THE BRIDGES SHALL BE COORDINATED WITH THE STAGING ALONG THE MERRITT PARKWAY FOR ROADWAY WORK.

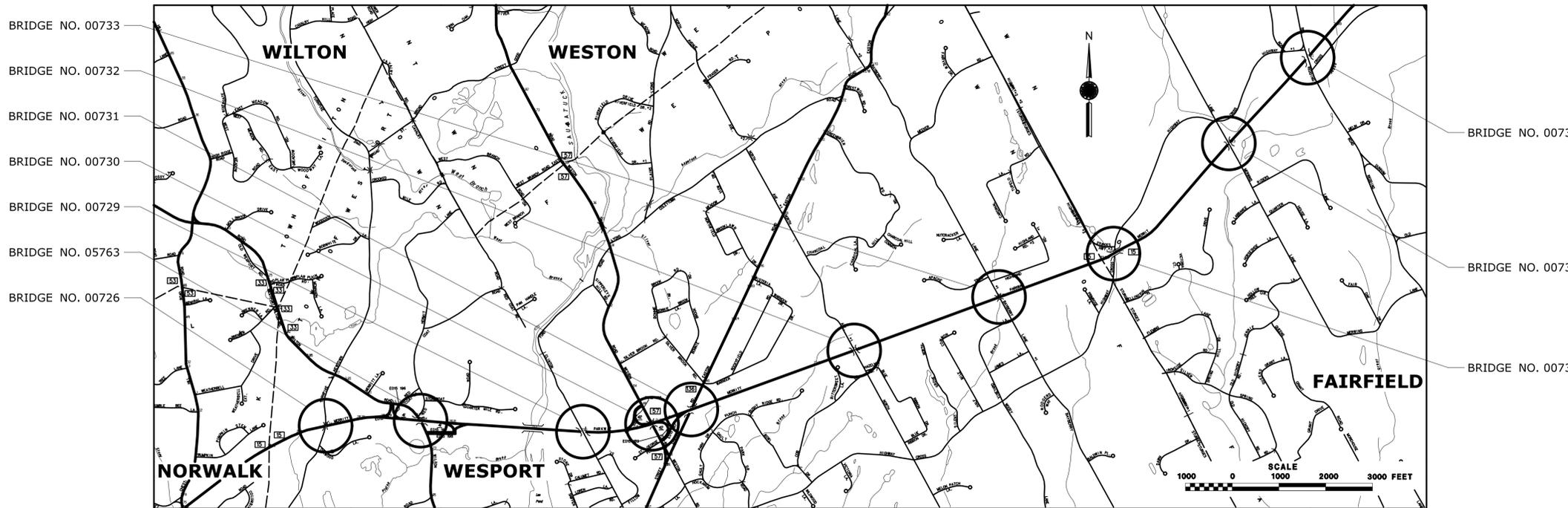
INTRADOS AND FRAME UNDERSIDE CLASS "S" TYPE REPAIRS: THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MEANS AND METHODS ARE THOROUGHLY CONSIDERED FOR ANY REPAIRS TO THE INTRADOS OR FRAME UNDERSIDES OF THE BRIDGES. CONSTRUCTION TECHNIQUES SHOULD BE IN PLACE THAT ALLOW FOR QUALITY CONTROL AND QUALITY ASSURANCE AND THOSE TECHNIQUES SHOULD BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW PRIOR TO ANY ATTEMPTED UNDERSIDE REPAIRS. REFER TO THE SPECIAL PROVISIONS FOR SUBMITTAL REQUIREMENTS.

EXISTING LOW CLEARANCE: THE CONTRACTOR SHALL TAKE NOTE OF THE LOW CLEARANCES, MARKED AS "LC" ON THE PLANS, FOR ALL BRIDGES ON THIS PROJECT. APPROVAL MUST BE RECEIVED FROM THE ENGINEER PRIOR TO THE INSTALLATION OF ANY FORMWORK/FALSEWORK OR ANY OPERATION THAT WILL BREACH A VERTICAL CLEARANCE OF 12'-0" IN A ROADWAY THAT IS EXPOSED TO LIVE TRAFFIC. FORMWORK OR FALSEWORK THAT WILL REDUCE THE EXISTING VERTICAL CLEARANCE OF ANY EXISTING STRUCTURE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL IN ACCORDANCE WITH ARTICLE 1.05.02.

HEAVY EQUIPMENT: THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LIST OF PROPOSED EQUIPMENT FOR USE ON THE BRIDGE. THE USE OF VIBRATORY ROLLERS ON THE BRIDGE IS PROHIBITED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURAL INTEGRITY OF THE BRIDGE DURING CONTRACT OPERATIONS. BACKFILL SHALL BE DEPOSITED EVENLY ON BOTH SIDES OF ARCHES TO MAINTAIN A BALANCED LOAD.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED TO CONSTRUCT CURB AND BARRIER BUILDOUTS, MERRITT PARKWAY BARRIER (BRIDGE), AND CAST-IN-PLACE END BLOCKS.

MERRITT PARKWAY MEDIAN BARRIER (BRIDGE) CLOSURE POURS: 1 OR 2 SECTIONS ARE REQUIRED AT EACH CLOSURE VARYING FROM 10' (ONE SECTION) TO 29'-11" (TWO SECTIONS) BASED ON JOINT REQUIREMENTS SHOWN IN THE TYPICAL DETAIL. ESTIMATED QUANTITIES ARE BASED ON 15 FOOT CLOSURES, EACH SIDE OF BRIDGE. CLOSURE LENGTHS SHOWN ON PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY.



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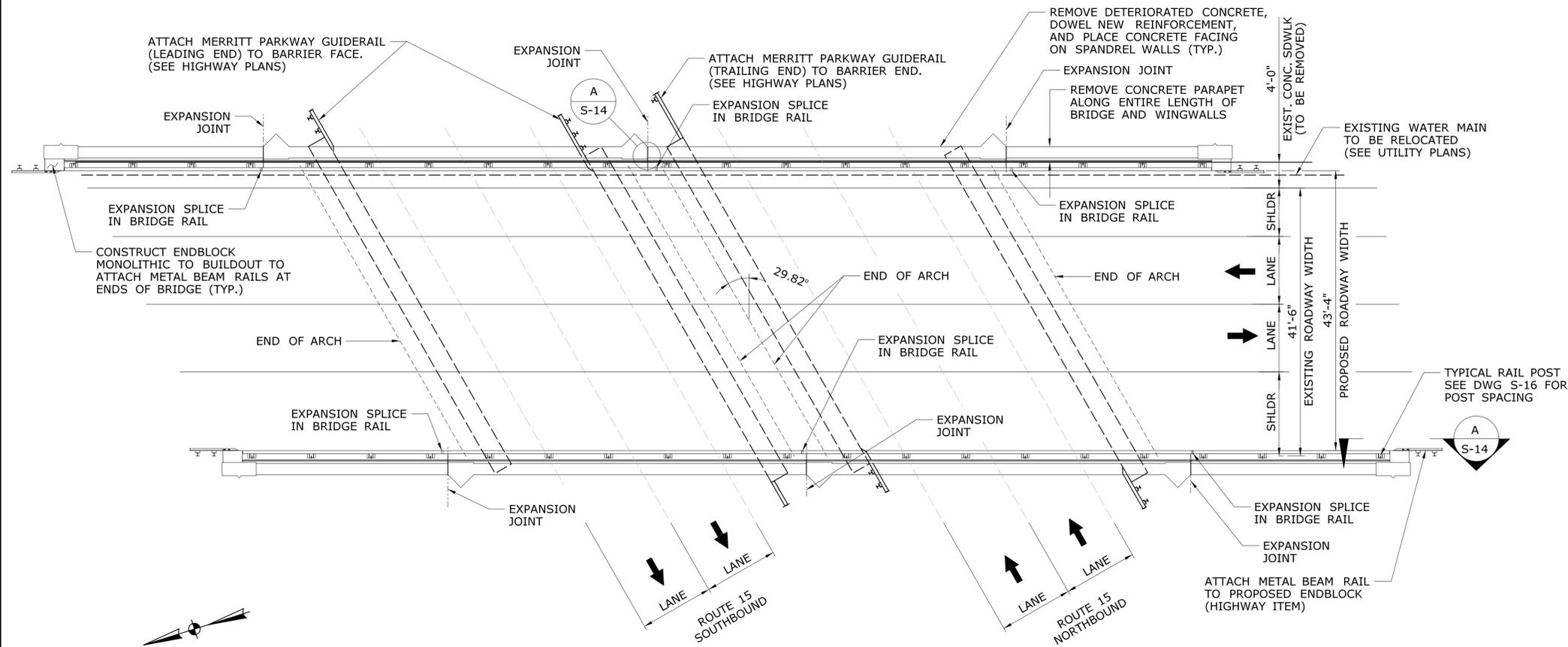
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CONCRETE DISTRIBUTION		
ITEM	UNIT	AMOUNT
SUPERSTRUCTURE	FT ³	-
SUBSTRUCTURE	FT ³	-
FOOTINGS	FT ³	-
TOTAL	FT ³	-

INSPECTION OF FIELD WELDS		
METHOD	UNIT	AMOUNT
ULTRASONIC	IN	0
MAGNETIC PARTICLE	FT	0

NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUCTED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE. THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
FOLLOW NORMAL INSPECTION PROCEDURES	-

DESIGNER/DRAFTER: MC/LFA	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	DRAWING TITLE: GENERAL NOTES AND LOCATION PLAN	DRAWING NO. S-1	SHEET NO. 02.01.02
SCALE AS NOTED	Plotted Date: 7/27/2016	Filename: ...158-211-General_Notes_Location_Plan.dgn			



PLAN
SCALE: 3/32" = 1'-0"

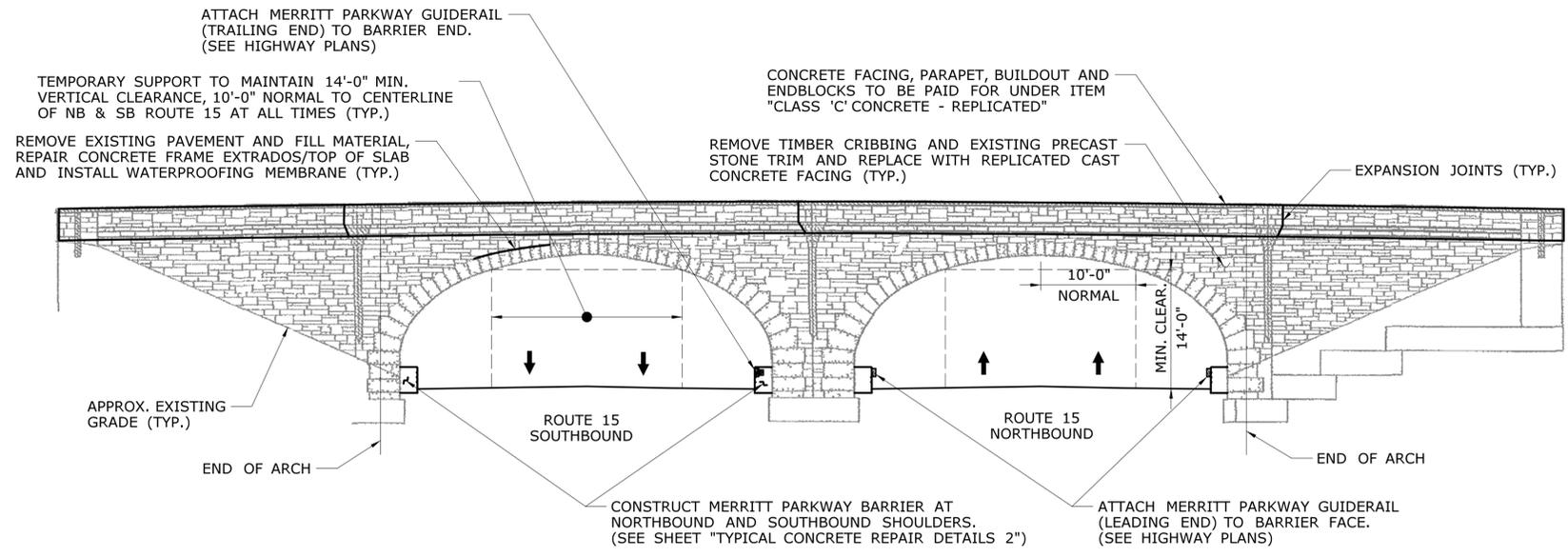
SUGGESTED SEQUENCE OF CONSTRUCTION:

REFER TO SPECIFICATIONS AND MPT SUBSET FOR REQUIREMENTS REGARDING MAINTENANCE OF TRAFFIC DURING ALL PHASES OF WORK.

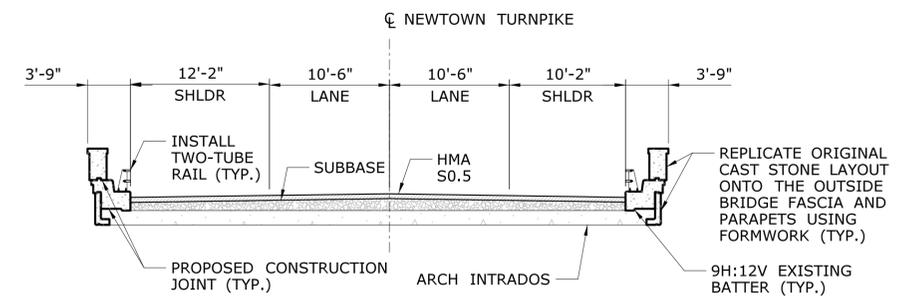
- 1) SET UP TEMPORARY LANES ON CENTER OF BRIDGE.
- 2) REMOVE TIMBER CRIBBING AND CAST STONES FROM BRIDGE FASCIA. CONSTRUCT TEMPORARY SUPPORT STRUCTURES, MAINTAINING A MINIMUM VERTICAL CLEARANCE OF 14'-0" OVER ROUTE 15 AT ALL TIMES.
- 3) OPEN EXCAVATE OUTSIDE TPCBC ON BRIDGE TO EXPOSE PARAPETS, REMOVING DETERIORATED CONCRETE AND CONCRETE SLAB AS NECESSARY.
- 4) REMOVE PARAPETS TO LIMITS SHOWN.
- 5) SOUND AND REMOVE DETERIORATED CONCRETE ON OUTSIDE FACE OF BRIDGE AND WINGWALLS, AND DOWEL REINFORCEMENT INTO FACING. FORM AND PLACE CONCRETE FACING. FORM AND PLACE UPPER PORTION OF SPANDREL WALL.
- 6) CLOSE NEWTOWN TURNPIKE AT BRIDGE AND DETOUR TRAFFIC.
- 7) REMOVE TPCBC.
- 8) EXCAVATE TO TOP OF ARCH AND TO EXPOSE WINGWALLS TO LIMITS SHOWN.
- 9) REMOVE MEMBRANE WATERPROOFING ON SPANDREL WALLS, ARCHES, AND REAR FACE OF WINGWALLS.
- 10) REPAIR DETERIORATED CONCRETE AREAS ON INTERIOR FACE OF SPANDREL WALLS, TOP SURFACE OF ARCHES, AND REAR FACE OF WINGWALLS.
- 11) INSTALL MEMBRANE WATERPROOFING ON REPAIRED INTERIOR FACE OF SPANDREL WALLS AND TOP SURFACE OF ARCHES.
- 12) PLACE PERVIOUS STRUCTURE BACKFILL AND PAVE FIRST COURSE OF HMA.
- 13) INSTALL TPCBC ALONG THE CENTER OF BRIDGE AND OPEN ROADWAY TO TRAFFIC.
- 14) CONSTRUCT PARAPETS, BUILDOUTS AND ENDBLOCKS.
- 15) INSTALL TWO-TUBE RAIL.
- 16) REMOVE TPCBC AND INSTALL FINAL COURSE OF PAVEMENT.
- 17) INSTALL METAL BEAM RAIL AT APPROACHES AND APPLY PERMANENT PAVEMENT MARKINGS.
- 18) CONSTRUCT MERRITT PARKWAY BARRIER AT NORTHBOUND AND SOUTHBOUND SHOULDERS.

DEBRIS SHIELD AND ACCESS PLATFORM NOTES

1. THE CONTRACTOR SHALL ERECT A TEMPORARY DEBRIS SHIELD BELOW ACTIVE WORKING AREAS TO CONTAIN ALL DEBRIS AND MATERIAL, AND TO PREVENT MATERIAL FROM FALLING TO THE ROADWAY BELOW.
 - A. THE DEBRIS SHIELD SHALL BE DESIGNED, ERECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO FACILITATE THE PROPER PERFORMANCE OF THE WORK, AND SHALL BE FULLY REMOVED UPON COMPLETION OF THE WORK.
 - B. THE DEBRIS SHIELD AND SUPPORTS SHALL BE CONSTRUCTED SUCH THAT IT DOES NOT CAUSE PERMANENT DAMAGE TO THE EXISTING BRIDGE.
 - C. ALL ELEMENTS OF THE DEBRIS SHIELD SHALL PROVIDE A MINIMUM VERTICAL CLEARANCE OF 14'-0" OVER THE ROADWAY BELOW.
 - D. THE CONTRACTOR SHALL PREPARE WORKING DRAWINGS AND CALCULATIONS, SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT, FOR REVIEW FOR THE DEBRIS SHIELD IN ACCORDANCE WITH SUBSECTION 1.05.02 OF FORM 816.
 - E. THE DESIGN, ERECTION, MAINTENANCE, AND REMOVAL OF THE DEBRIS SHIELD SHALL BE INCLUDED IN THE ITEM "TEMPORARY SUPPORT SYSTEM."
2. AT NO TIME WILL DEBRIS BE PERMITTED TO DROP ONTO AN ACTIVE ROADWAY.



ELEVATION
SCALE: 3/32" = 1'-0"



TYPICAL CROSS SECTION
SCALE: 1/8" = 1'-0"

		DESIGNER/DRAFTER: LFA	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	APPROVED BY:		DRAWING TITLE: GENERAL PLAN BRIDGE NO. 00726 NEWTOWN TURNPIKE

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.

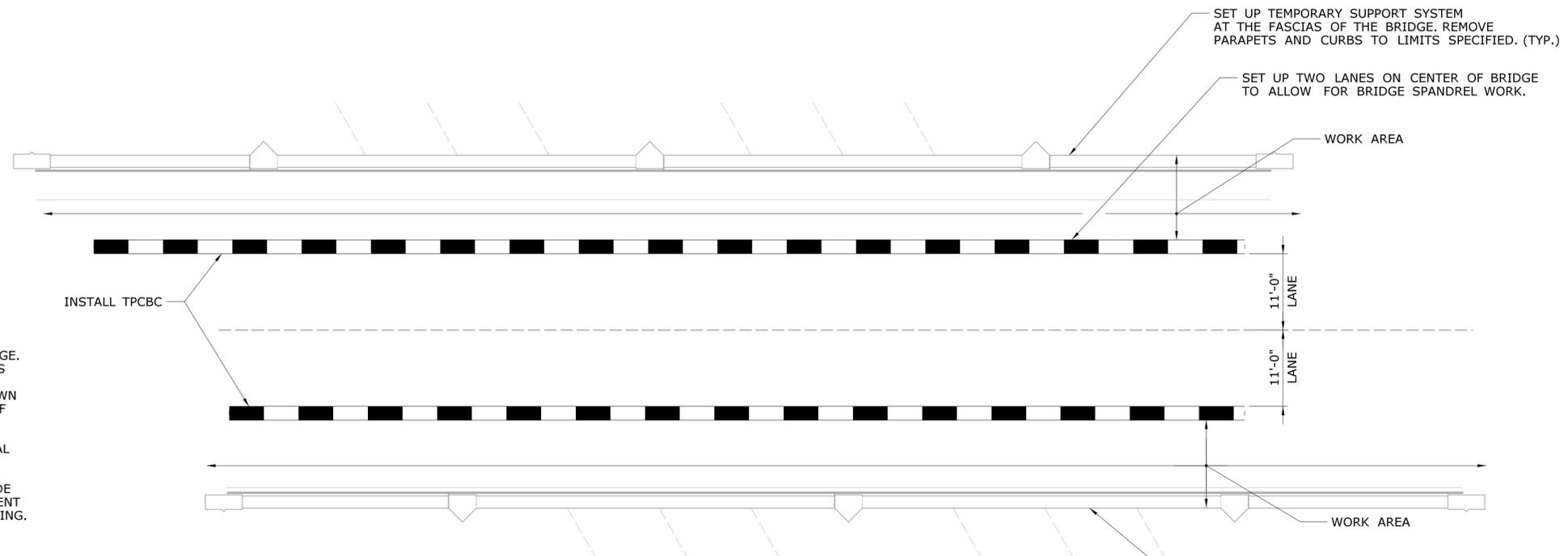
Plotted Date: 7/27/2016

Filename: ...SB-158-211-00726_GEN_PLN.dgn



STAGE 1 - SUGGESTED SEQUENCE

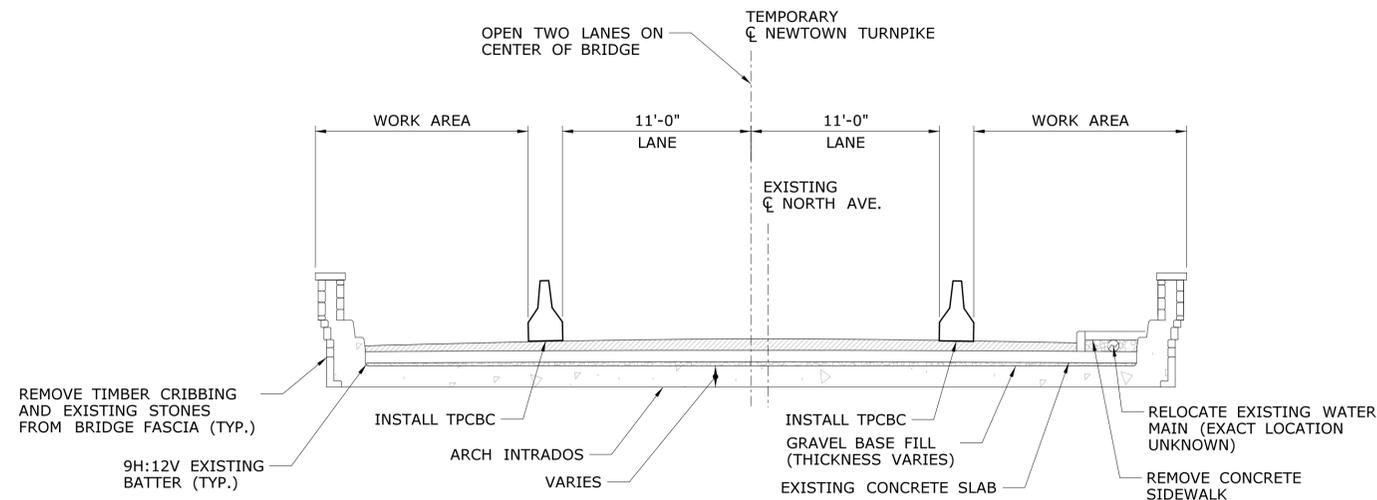
- CONTRACTOR SHALL:
- 1) INSTALL TPCBC, OPEN TWO LANES ON CENTER OF BRIDGE.
 - 2) REMOVE TIMBER CRIBBING AND EXISTING CAST STONES FROM FASCIA.
 - 3) ENSURE EXISTING OVERHEAD UTILITIES ALONG NEWTOWN TURNPIKE ARE RELOCATED PRIOR TO CONSTRUCTION OF TEMPORARY SUPPORT SYSTEM.
 - 4) CONSTRUCT TEMPORARY SUPPORT SYSTEM. TEMPORARY SUPPORT SYSTEM SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 14'-0" OVER ROUTE 15 AT ALL TIMES.
 - 5) REMOVE PARAPETS AND CURBS TO LIMITS SHOWN.
 - 6) AFTER REMOVING DETERIORATED CONCRETE ON OUTSIDE FACE OF BRIDGE AND WINGWALLS, DOWEL REINFORCEMENT INTO FACING PRIOR TO FORMING NEW CONCRETE FACING. FORM AND PLACE CONCRETE FACING.
 - 7) SET UP DETOUR SIGNAGE.



STAGE 1 - CONSTRUCTION

SCALE: 3/32" = 1'-0"

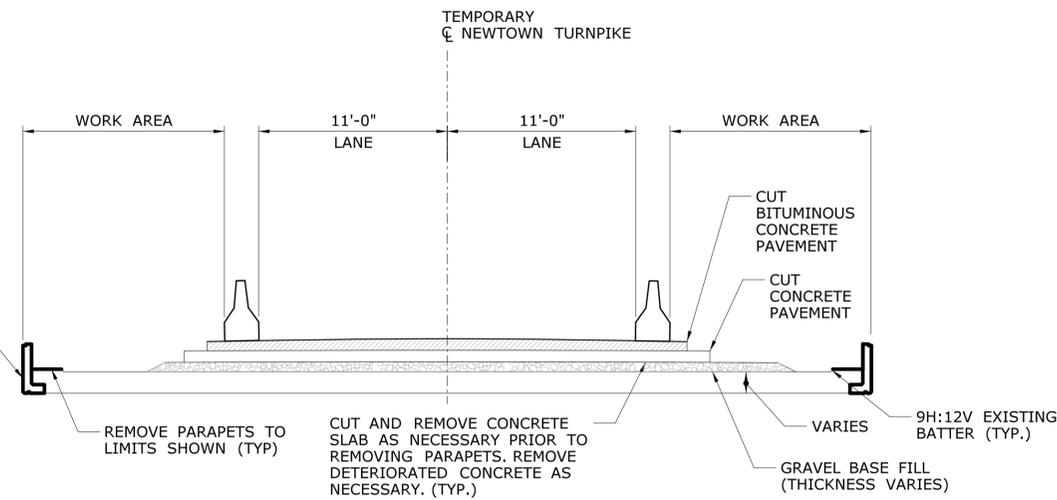
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CHECKED BY: JRH/DSG	SCALE AS NOTED	APPROVED BY: 		DRAWING TITLE: STAGE 1 BRIDGE NO. 00726 NEWTOWN TURNPIKE		DRAWING NO. S-4	SHEET NO. 02.01.05
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 7/27/2016	Filename: ...SB-158-211-00726-STAGE 1.SQ.dgn					



STAGE 1A - CONSTRUCTION AT ARCHES

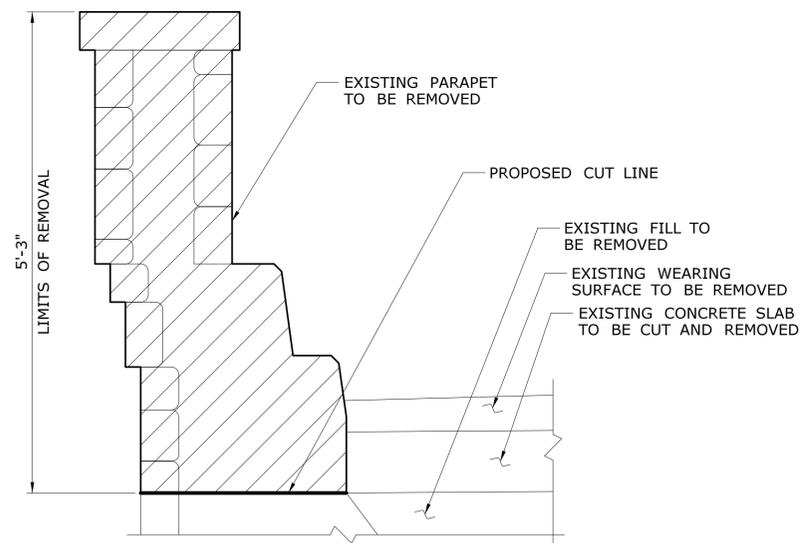
SCALE: 3/16"=1'-0"

AFTER REMOVING PARAPETS TO LIMITS SHOWN, AND DETERIORATED CONCRETE ON OUTSIDE FACE OF BRIDGE AND WINGWALLS, DOWEL REINFORCEMENT INTO FACING PRIOR TO FORMING NEW CONCRETE FACING. FORM AND PLACE CONCRETE FACING. (TYP.)



STAGE 1B - CONSTRUCTION AT ARCHES

SCALE: 3/16"=1'-0"



TYPICAL SECTION - REMOVAL LIMITS

SCALE: 1"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **LFA**
 CHECKED BY: **JRH/DSG**
 SCALE AS NOTED

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 7/27/2016
 Filename: ...SB-158-211-00726-SEQ1_XSC.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Mary E. Baker

PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
 SAFETY IMPROVEMENTS, RESURFACING,
 ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

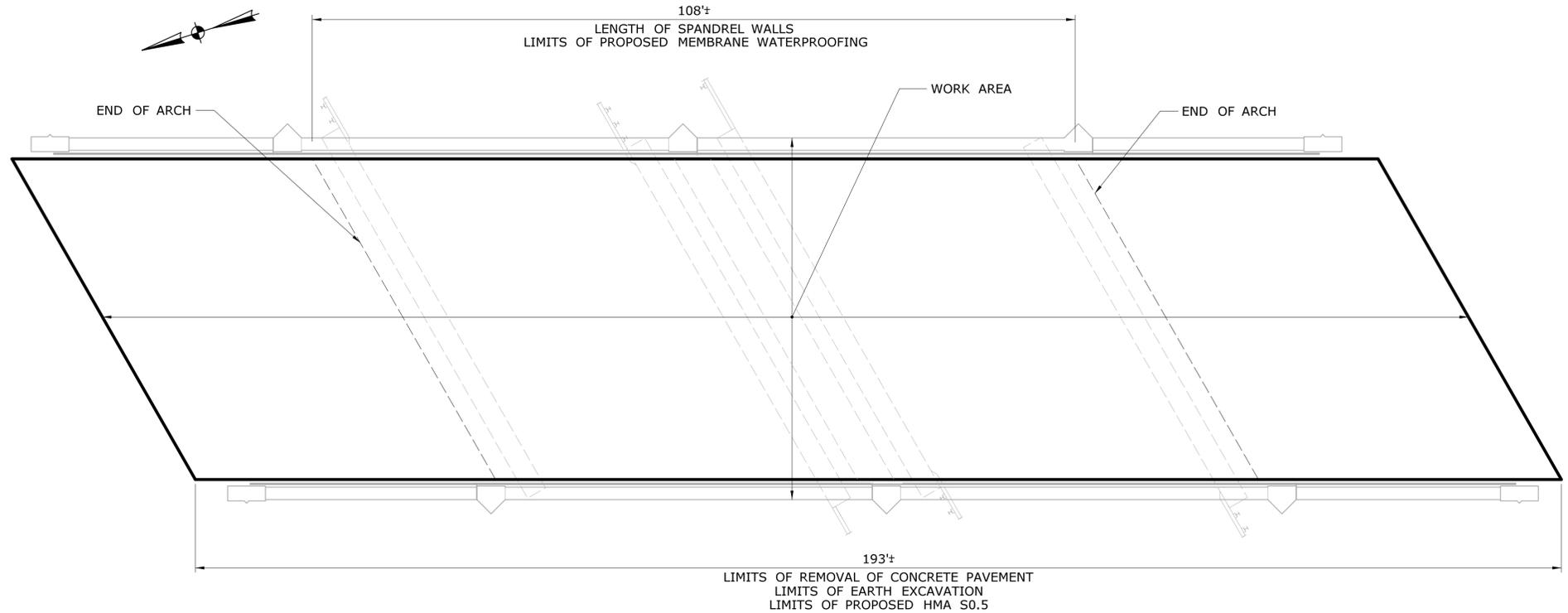
TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE:
**SEQ. OF CONST. (1/3)
 BRIDGE NO. 00726
 NEWTOWN TURNPIKE**

PROJECT NO. **158-211**
 DRAWING NO. **S-5**
 SHEET NO. **02.01.06**

STAGE 2 - DETOUR

CONTRACTOR SHALL:

- 1) CLOSE NEWTOWN TURNPIKE AT BRIDGE AND DETOUR TRAFFIC.
- 2) REMOVE TPCBC USED IN STAGE 1.
- 3) EXCAVATE TO TOP OF ARCH AND REAR FACE OF WINGWALLS.
- 4) REMOVE MEMBRANE WATERPROOFING ON SPANDREL WALLS, ARCHES, AND REAR FACE OF WINGWALLS TO LIMITS SHOWN.
- 5) REPAIR DETERIORATED CONCRETE AREAS ON INTERIOR FACE OF SPANDREL WALLS, TOP SURFACE OF ARCHES, AND REAR FACE OF WINGWALLS.
- 6) CONSTRUCT CURB AND UPPER PORTION OF SPANDREL WALL.
- 7) INSTALL MEMBRANE WATERPROOFING ON INTERIOR FACE OF SPANDREL WALLS AND TOP SURFACE OF ARCHES.
- 8) PLACE PERVIOUS STRUCTURE BACKFILL AND PAVE BASE COURSE.



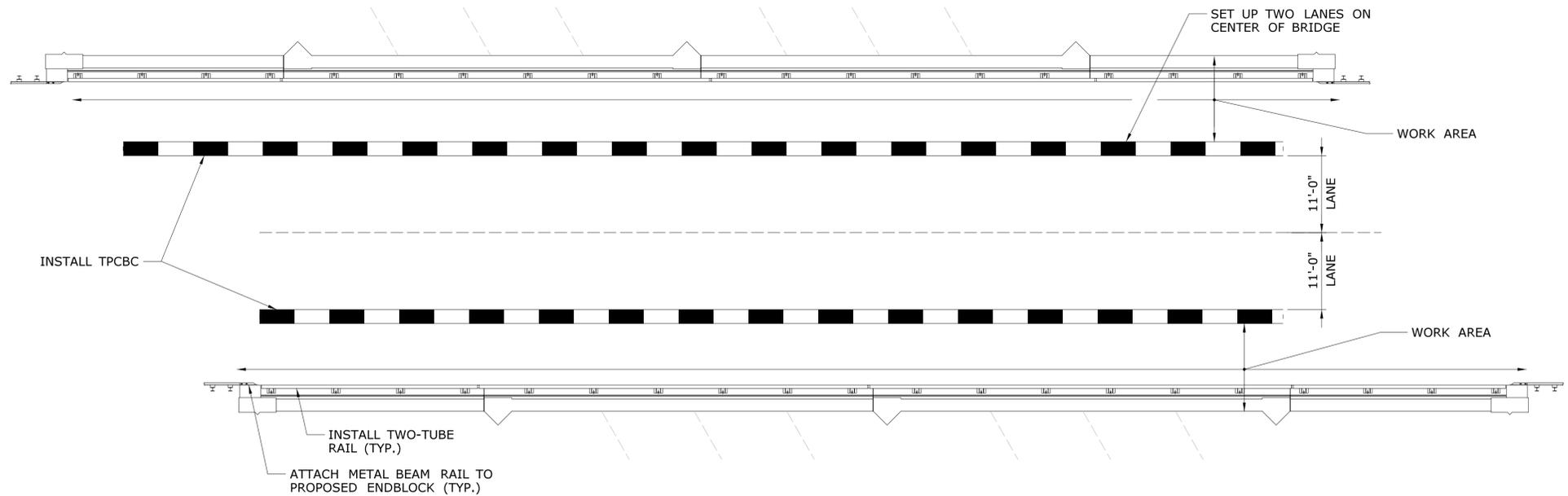
STAGE 2 - DETOUR

SCALE: 3/32" = 1'-0"

STAGE 3 - SUGGESTED SEQUENCE

CONTRACTOR SHALL:

- 1) INSTALL TPCBC AND OPEN TWO LANES ON CENTER OF BRIDGE.
- 2) CONSTRUCT PARAPETS.
- 3) INSTALL FINAL COURSE OF PAVEMENT.
- 4) INSTALL METAL BEAM RAIL AT APPROACHES AND PAVEMENT MARKINGS.
- 5) INSTALL TWO-TUBE RAILING ON BRIDGE
- 6) RESTORE TRAFFIC.



STAGE 3 - CONSTRUCTION

SCALE: 3/32" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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DESIGNER/DRAFTER: **LFA**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

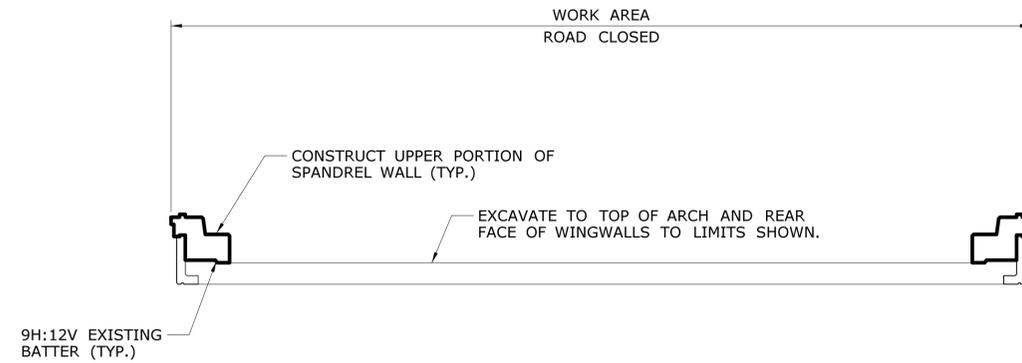
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SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: *Mary E. Baker*

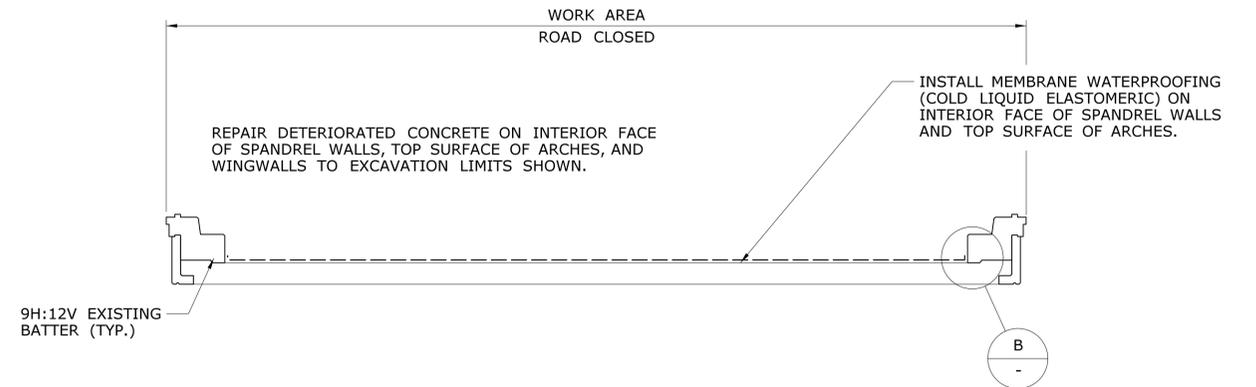
PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE:
**STAGE 2 AND 3
BRIDGE NO. 00726
NEWTOWN TURNPIKE**

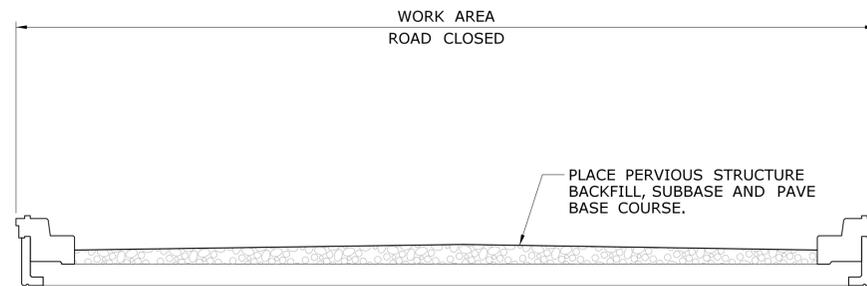
PROJECT NO. **158-211**
DRAWING NO. **S-6**
SHEET NO. **02.01.07**



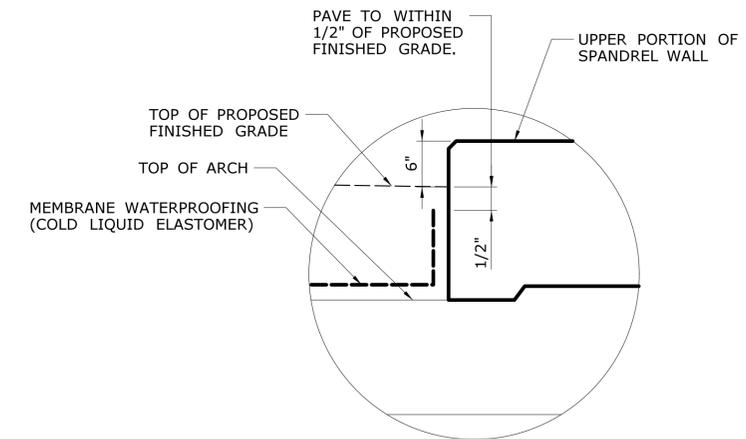
STAGE 2A - CONSTRUCTION AT ARCHES
SCALE: 3/16" = 1'-0"



STAGE 2B - CONSTRUCTION AT ARCHES
SCALE: 3/16" = 1'-0"

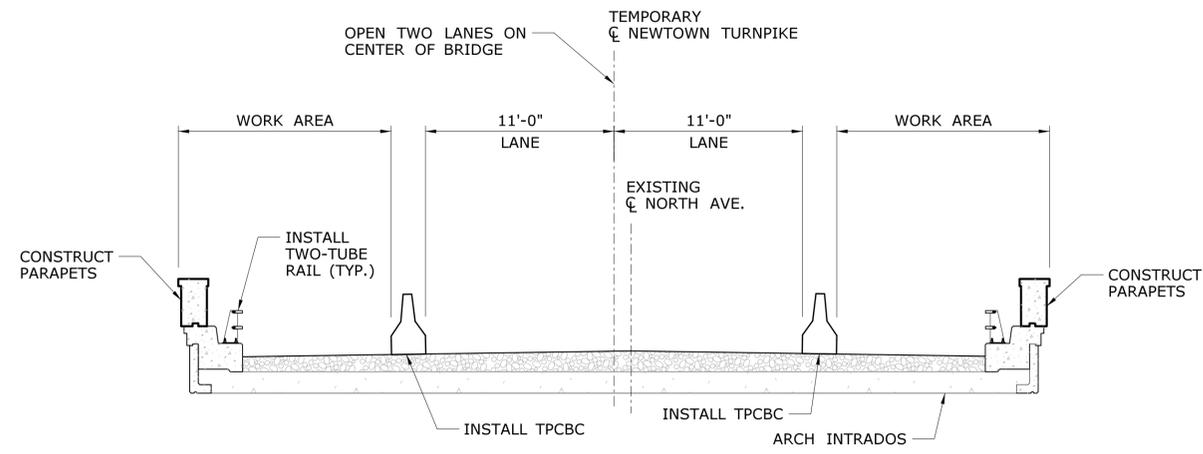


STAGE 2C - CONSTRUCTION AT ARCHES
SCALE: 3/16" = 1'-0"

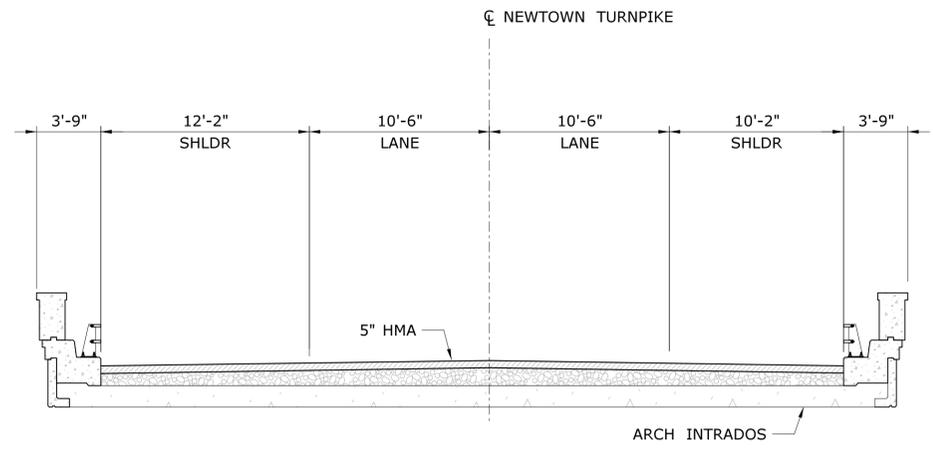


DETAIL - MEMBRANE WATERPROOFING
NTS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/27/2016	DESIGNER/DRAFTER: LFA	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
-	-	-	-	-	CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	SEQ. OF CONST. (2/3) BRIDGE NO. 00726 NEWTOWN TURNPIKE	DRAWING NO. S-7	SHEET NO. 02.01.08



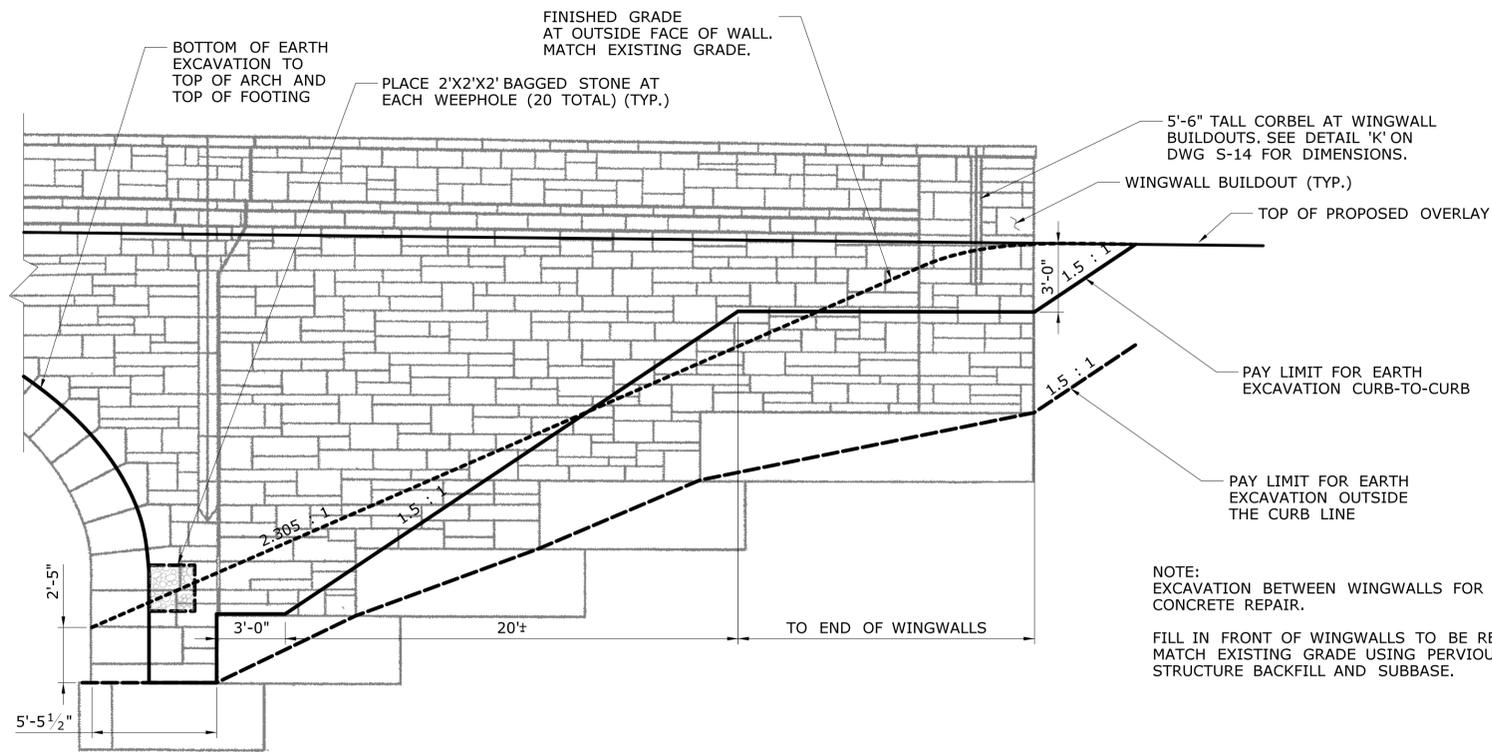
STAGE 3 - CONSTRUCT ARCH AND WINGWALL PARAPETS
SCALE: 3/16" = 1'-0"



FINAL CONDITION
SCALE: 3/16" = 1'-0"

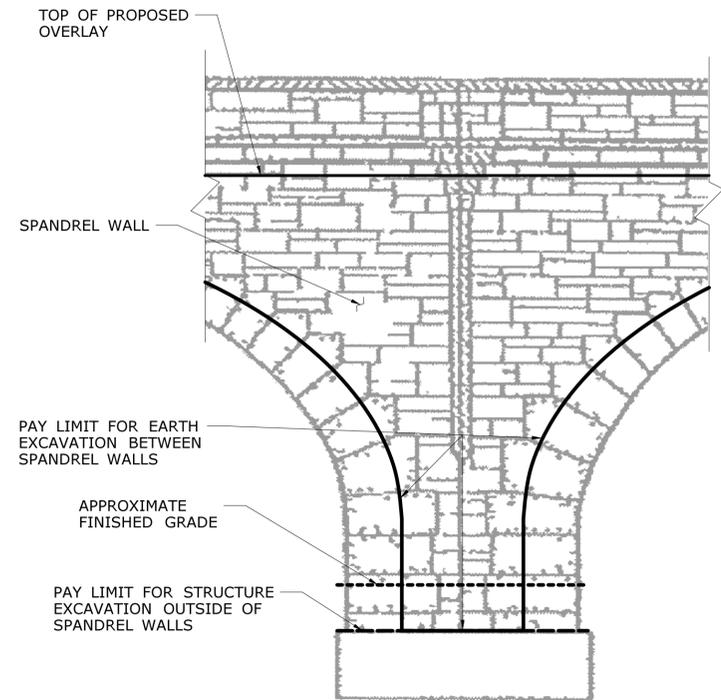
NOTE:
ONCE THE PARAPETS HAVE BEEN CONSTRUCTED AND THE TWO-TUBE RAIL HAS BEEN INSTALLED, REMOVE TPCBC AND FINALIZE PAVING. APPLY PERMANENT PAVING MARKINGS AND METAL BEAM RAIL ATTACHMENTS.

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.		DESIGNER/DRAFTER: LFA CHECKED BY: JRH/DSG	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: SEQ. OF CONST. (3/3) BRIDGE NO. 00726 NEWTOWN TURNPIKE	PROJECT NO. 158-211 DRAWING NO. S-8 SHEET NO. 02.01.09
REV. DATE - - - - - - - - - - - - - - -	REVISION DESCRIPTION - - - - -	SHEET NO. - - - - -		Plotted Date: 7/27/2016 Filename: ...SB-158-211-00726-SEQ3.XSC.dgn			



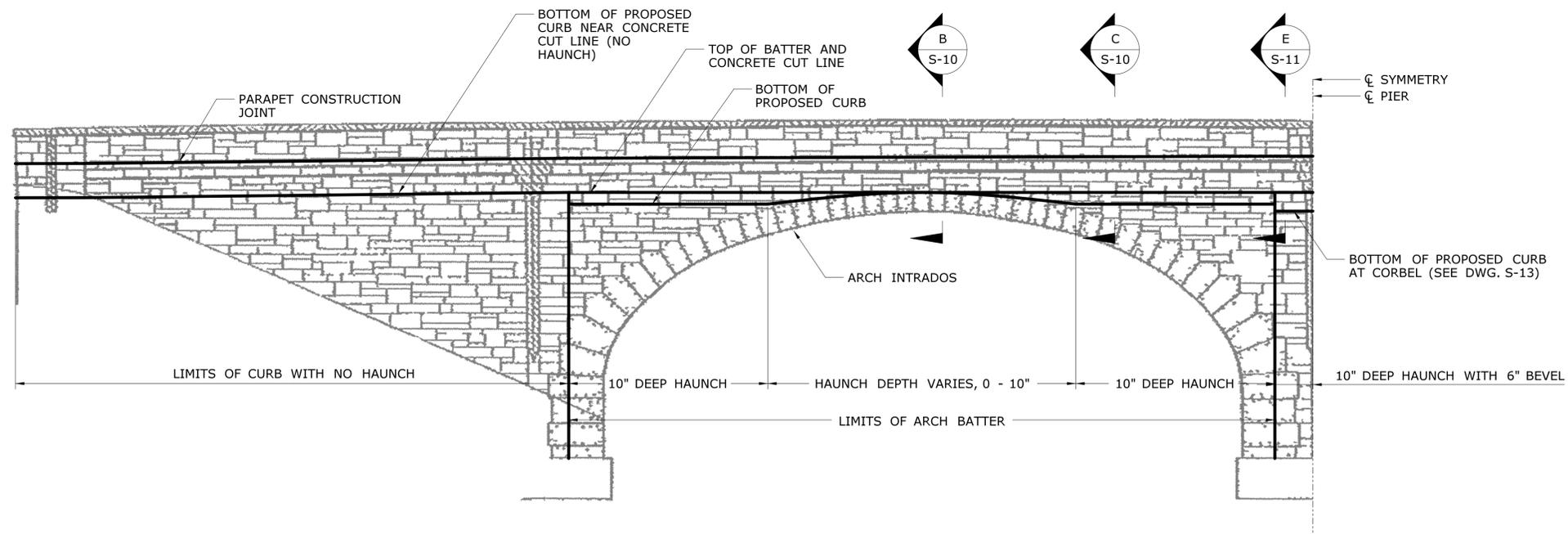
TYPICAL ELEVATION - WINGWALLS

SCALE: 1/4"=1'-0"



TYPICAL ELEVATION - PIER

SCALE: 1/4"=1'-0"



**ELEVATION - INSIDE FACE OF SPANDREL WALL AND WINGWALLS
HAUNCH DEPTH LIMITS FOR CONCRETE CURB BUILDOUT**

SCALE: 3/16"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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-	-	-	-

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.

Plotted Date: 7/27/2016

DESIGNER/DRAFTER: **LFA**
 CHECKED BY: **JRH/DSG**
 SCALE AS NOTED



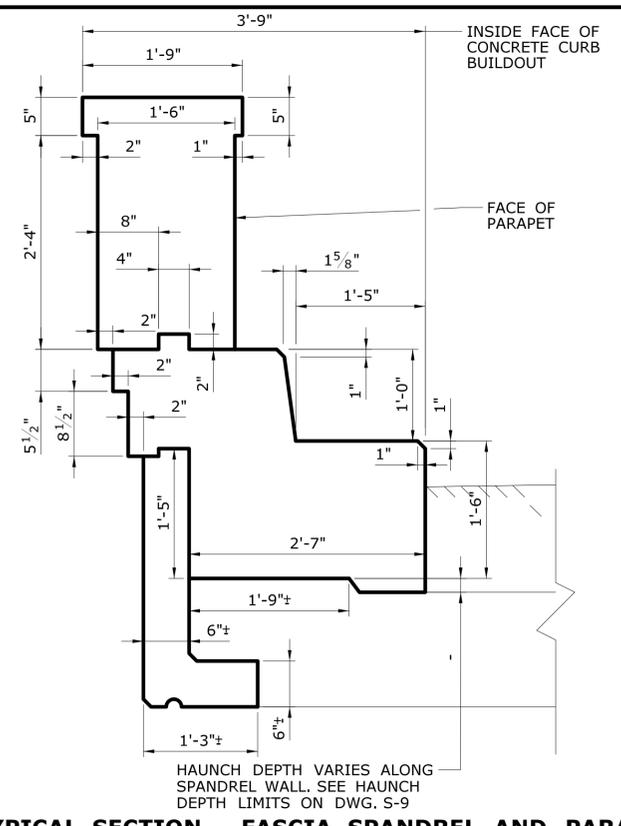
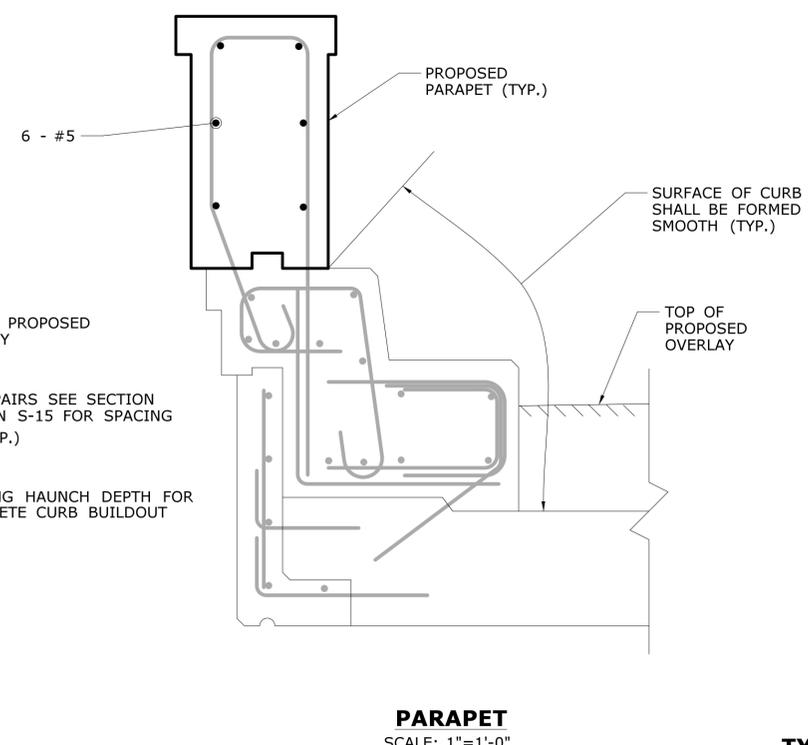
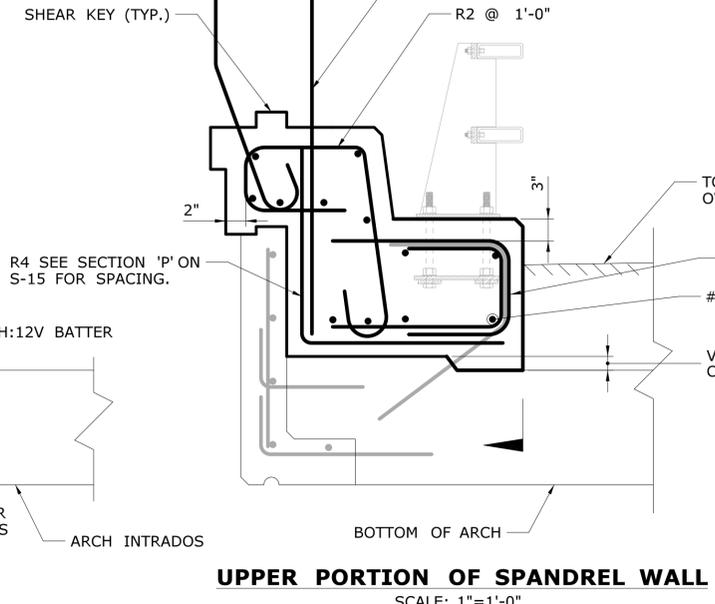
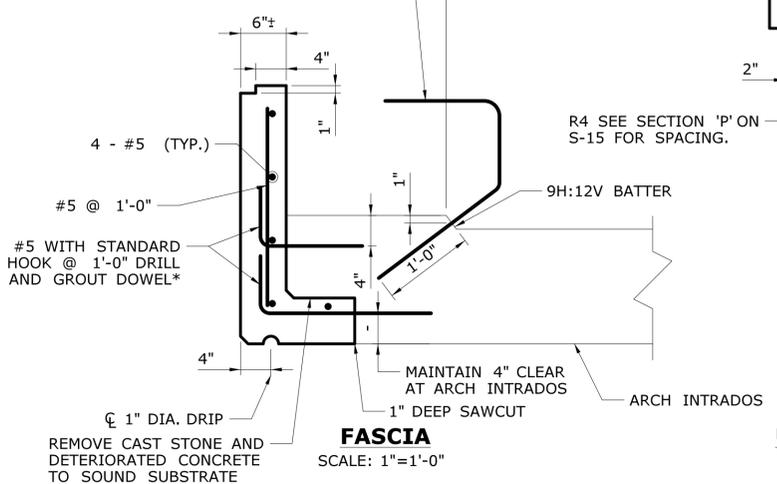
SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
 APPROVED BY: *Mary E. Baker*

PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
 SAFETY IMPROVEMENTS, RESURFACING,
 ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE:
**TYP. ELEVATIONS
 BRIDGE NO. 00726
 NEWTOWN TURNPIKE**

PROJECT NO. **158-211**
 DRAWING NO. **S-9**
 SHEET NO. **02.01.10**

FACE OF EXISTING PARAPET/TOP OF BATTER
 DRILL AND GROUT 8 - R6 DOWELS AT 6" NEAR POSTS (SEE DETAIL 'P' ON S-15). REMAINDER OF R6 DOWELS TO BE PLACED AT 1'-0" ON CENTER. DRILL AND GROUT DOWELS 1" FROM TOP OF BATTER.

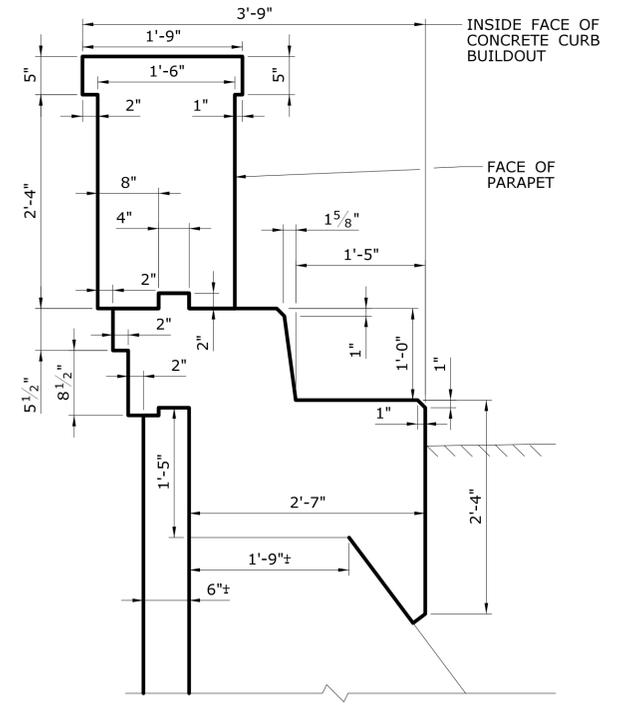
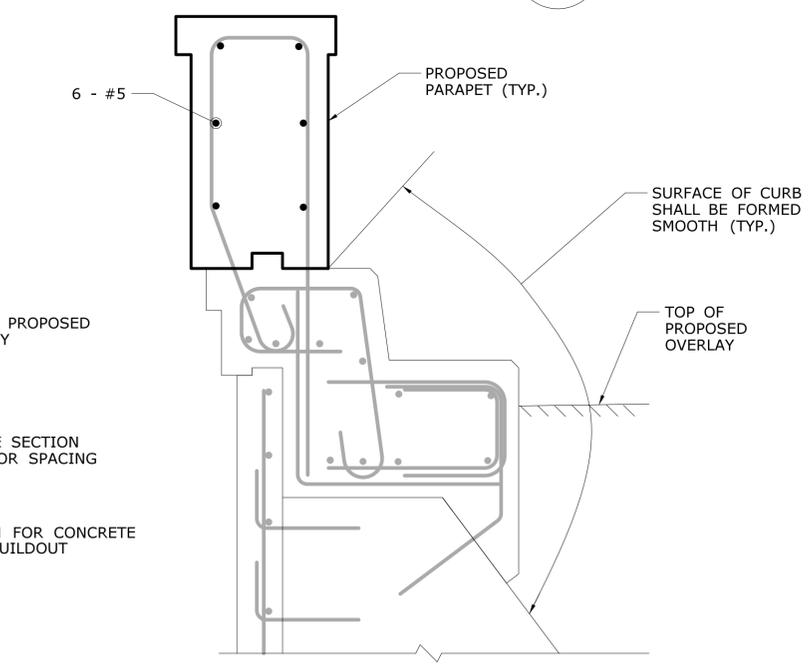
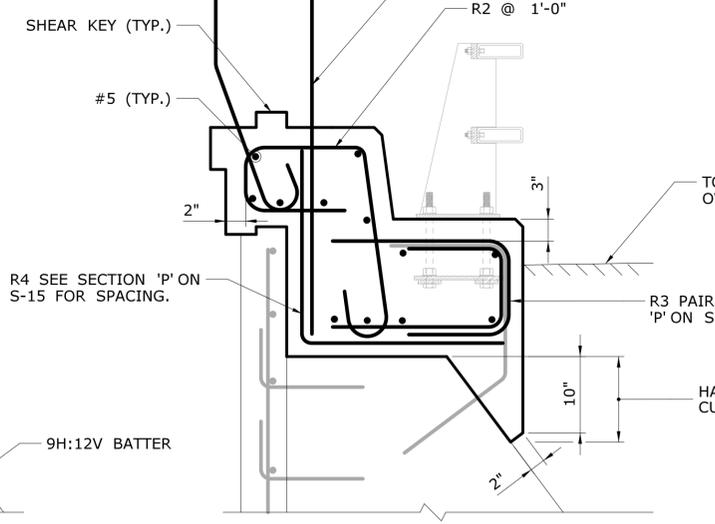
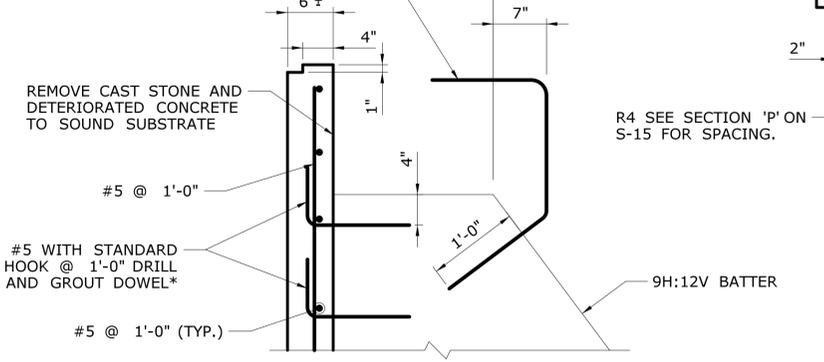


SPANDREL WALL OVER ARCH (VARYING DEPTH HAUNCH ZONE)

B
 S-9

* DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHORING MATERIAL TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR OR 125% OF THE YIELD STRENGTH OF THE BAR, WHICHEVER IS GREATER
 NOTE: ALL EXPOSED SURFACES OF CONCRETE SPANDREL WALLS, CORBELS, PARAPETS AND WINGWALLS SHALL BE FORMED TO LOOK LIKE THE ORIGINAL CAST STONE. THE STONE PATTERN, COLOR AND TEXTURE SHALL SIMULATE THE ORIGINAL MATERIAL.

FACE OF EXISTING PARAPET/TOP OF BATTER
 DRILL AND GROUT 8 - R6 DOWELS AT 6" NEAR POSTS (SEE DETAIL 'P' ON S-15). REMAINDER OF R6 DOWELS TO BE PLACED AT 1'-0" ON CENTER



SPANDREL WALL OVER ARCH (CONSTANT DEPTH HAUNCH ZONE)

C
 S-9

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
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DESIGNER/DRAFTER: **LFA**
 CHECKED BY: **JRH/DSG**
 SCALE AS NOTED

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

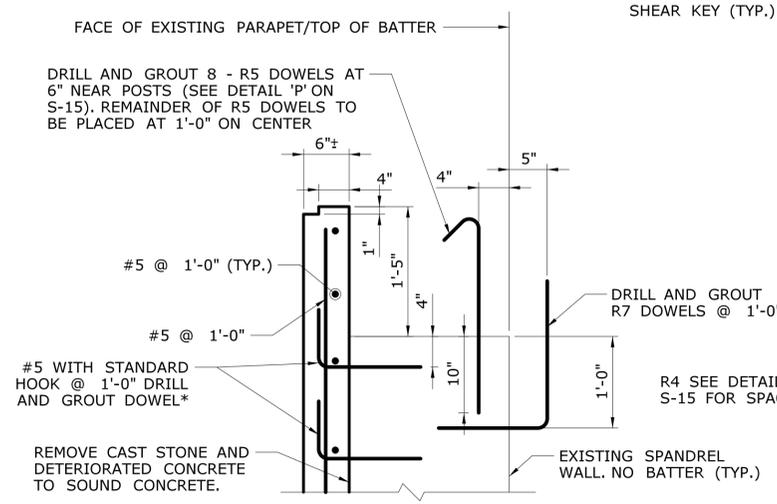
Plotted Date: 7/27/2016
 Filename: ...SB-158-211-00726.SPANDREL_REINFORCEMENT 1.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
 APPROVED BY:
Mary E. Baker

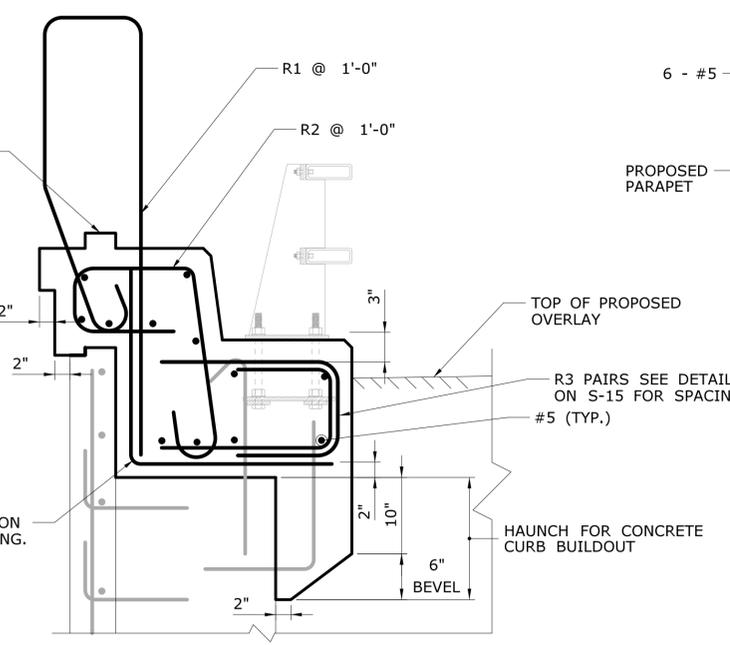
PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
 SAFETY IMPROVEMENTS, RESURFACING,
 ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE:
**SPANDREL REINF
 BRIDGE NO. 00726
 NEWTOWN TURNPIKE**

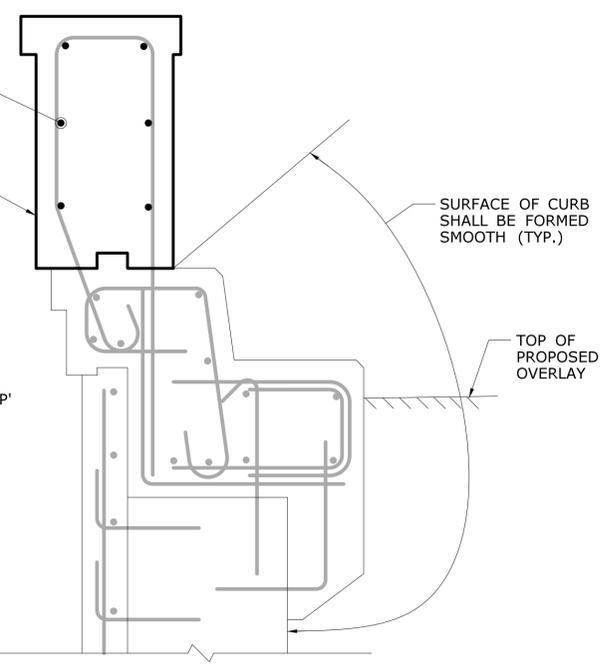
PROJECT NO.: **158-211**
 DRAWING NO.: **S-10**
 SHEET NO.: **02.01.11**



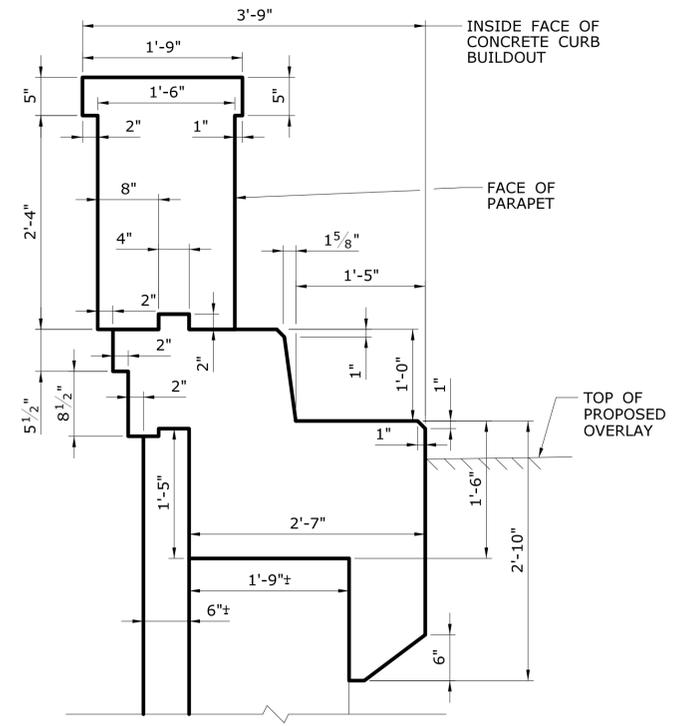
FASCIA
SCALE: 1"=1'-0"



UPPER PORTION OF SPANDREL WALL
SCALE: 1"=1'-0"



PARAPET
SCALE: 1"=1'-0"

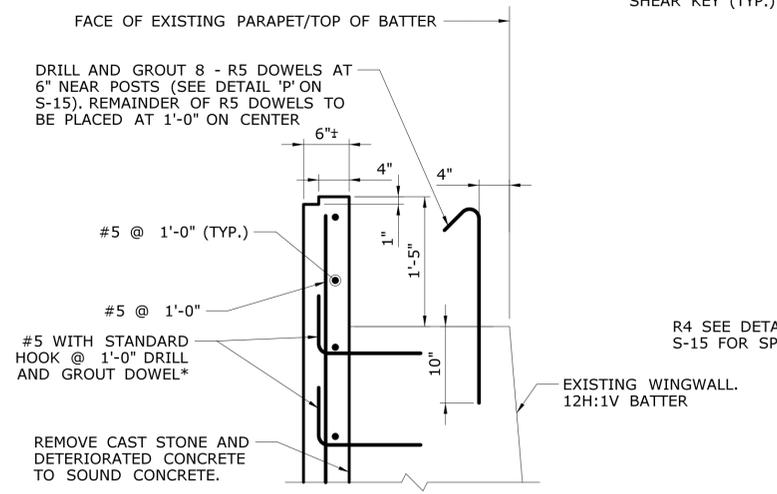


TYPICAL SECTION - FASCIA, SPANDREL, AND PARAPET
SCALE: 1"=1'-0"

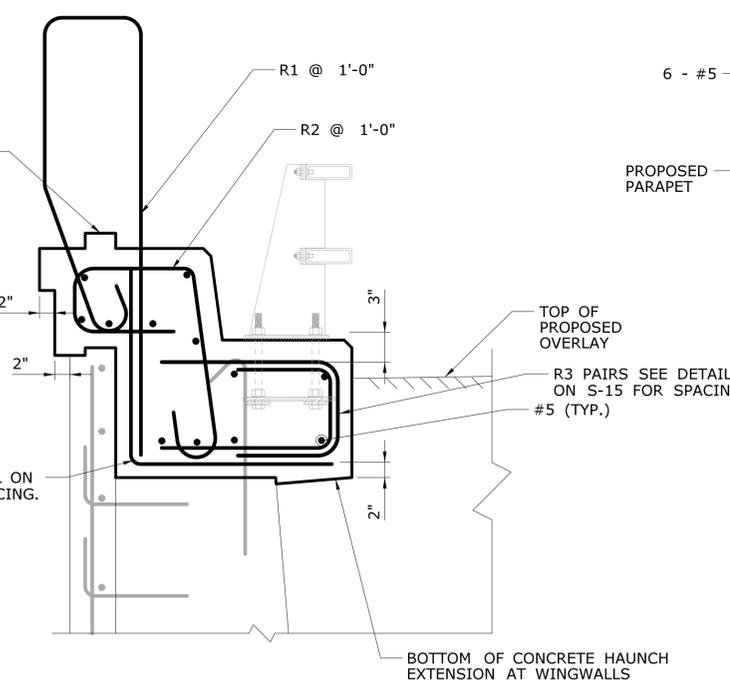
* DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHORING MATERIAL TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR OR 125% OF THE YIELD STRENGTH OF THE BAR, WHICHEVER IS GREATER

NOTE: ALL EXPOSED SURFACES OF CONCRETE SPANDREL WALLS, CORBELS, PARAPETS AND WINGWALLS SHALL BE FORMED TO LOOK LIKE THE ORIGINAL CAST STONE. THE STONE PATTERN, COLOR AND TEXTURE SHALL SIMULATE THE ORIGINAL MATERIAL.

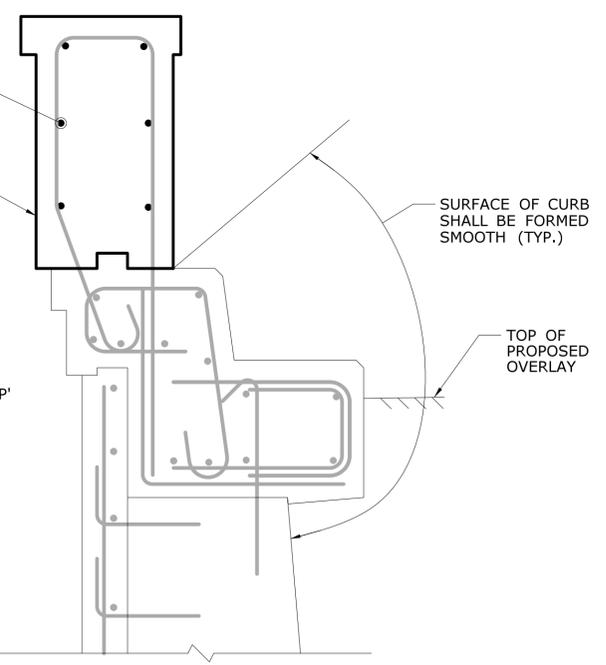
NOTE: FOR HAUNCH DEPTH LIMITS, SEE DWG S-9



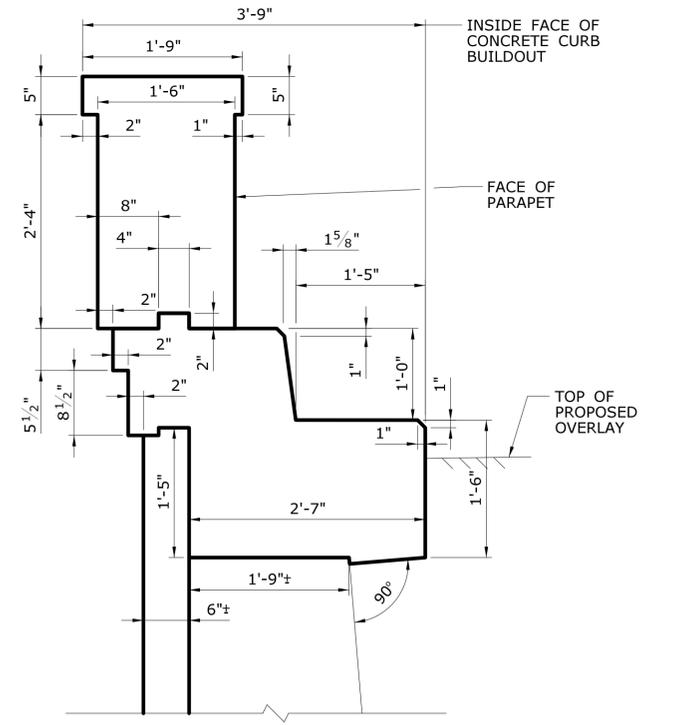
FASCIA
SCALE: 1"= 1'-0"



UPPER PORTION OF WINGWALL
SCALE: 1"= 1'-0"



PARAPET
SCALE: 1"= 1'-0"

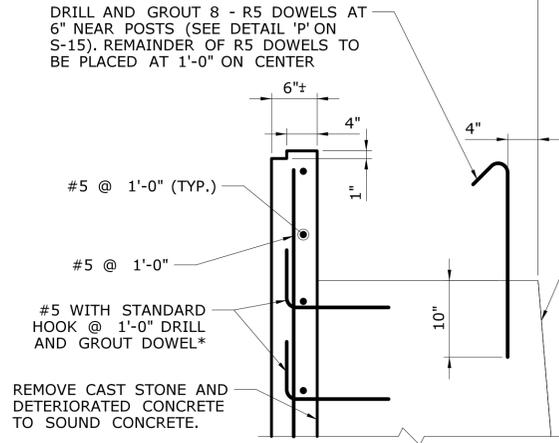


TYPICAL SECTION - FASCIA, SPANDREL, AND PARAPET
SCALE: 1"=1'-0"

WINGWALL D
S-14

NOTE: FOR HAUNCH DEPTH LIMITS, SEE DWG S-9

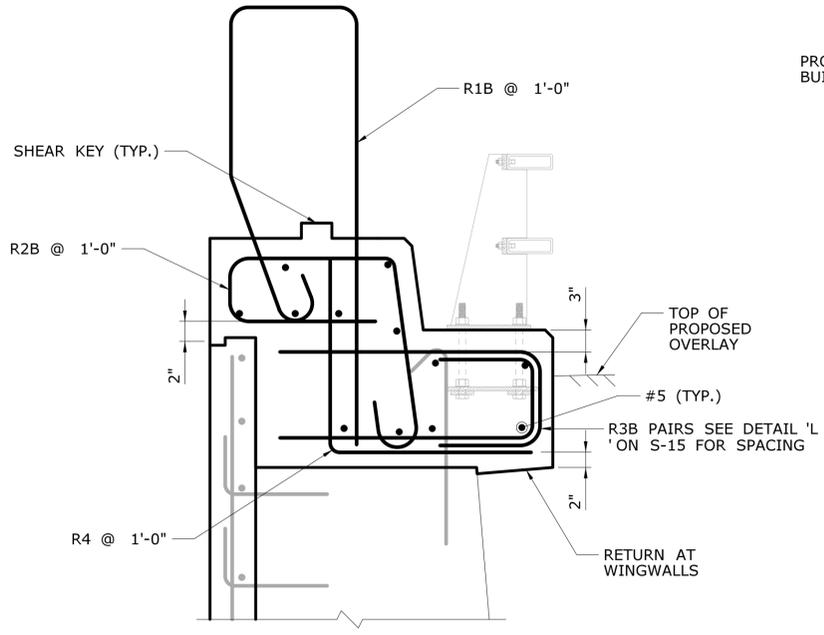
DESIGNER/DRAFTER: LFA	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		OFFICE OF ENGINEERING	DRAWING TITLE: PIER AND W.W. REINF. BRIDGE NO. 00726 NEWTOWN TURNPIKE	DRAWING NO. S-11	SHEET NO. 02.01.12
SCALE AS NOTED	Filename: ...SB-158-211_00726.SPANDREL.REINFORCEMENT_4.dgn				
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/27/2016		



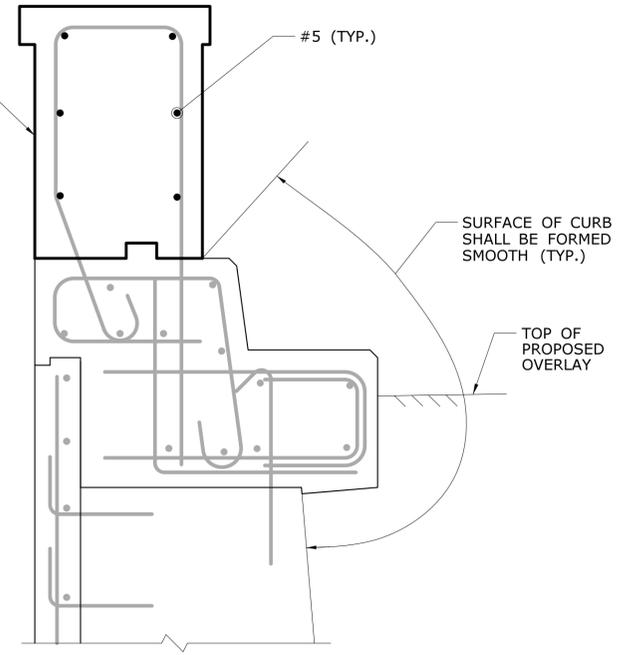
FASCIA
SCALE: 1"= 1'-0"

* DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHORING MATERIAL TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR OR 125% OF THE YIELD STRENGTH OF THE BAR, WHICHEVER IS GREATER

NOTE: ALL EXPOSED SURFACES OF CONCRETE SPANDREL WALLS, CORBELS, PARAPETS AND WINGWALLS SHALL BE FORMED TO LOOK LIKE THE ORIGINAL CAST STONE. THE STONE PATTERN, COLOR AND TEXTURE SHALL SIMULATE THE ORIGINAL MATERIAL.

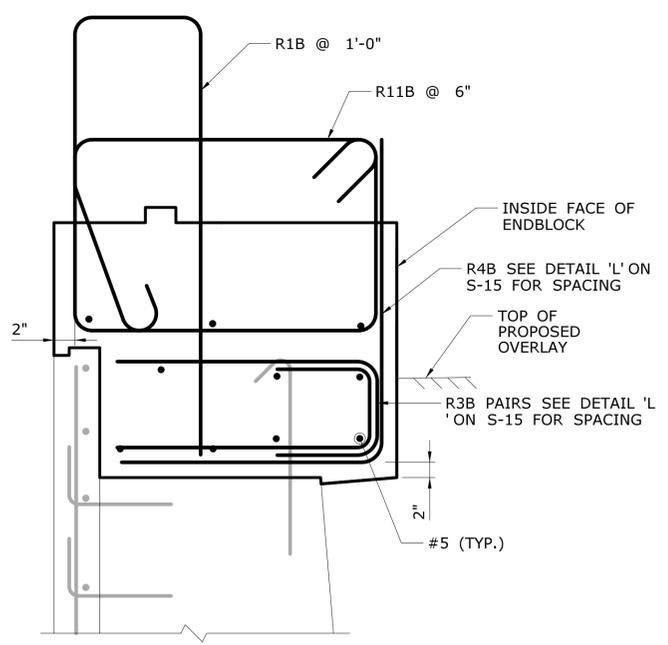


UPPER PORTION OF WINGWALL
SCALE: 1"= 1'-0"

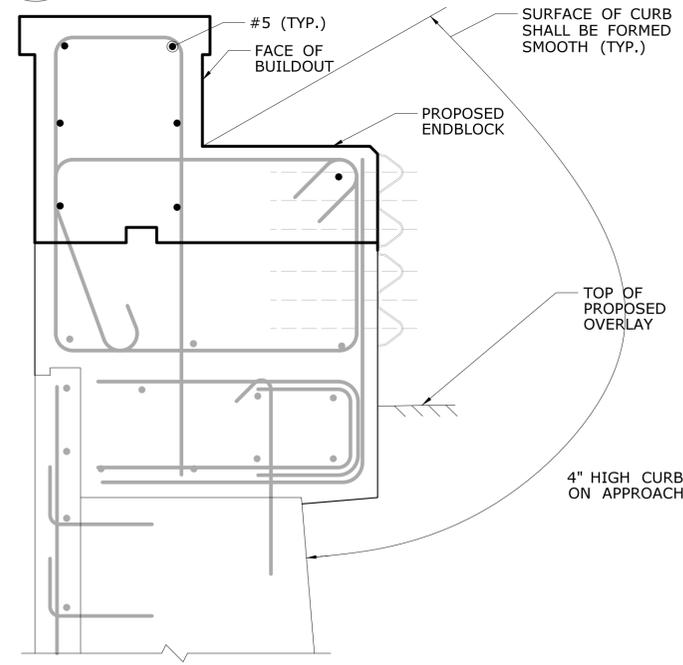


BUILDOUT
SCALE: 1"= 1'-0"

WINGWALL BUILDOUT **F**
NOTE: FOR HAUNCH DEPTH LIMITS, SEE DWG S-9 **S-14**

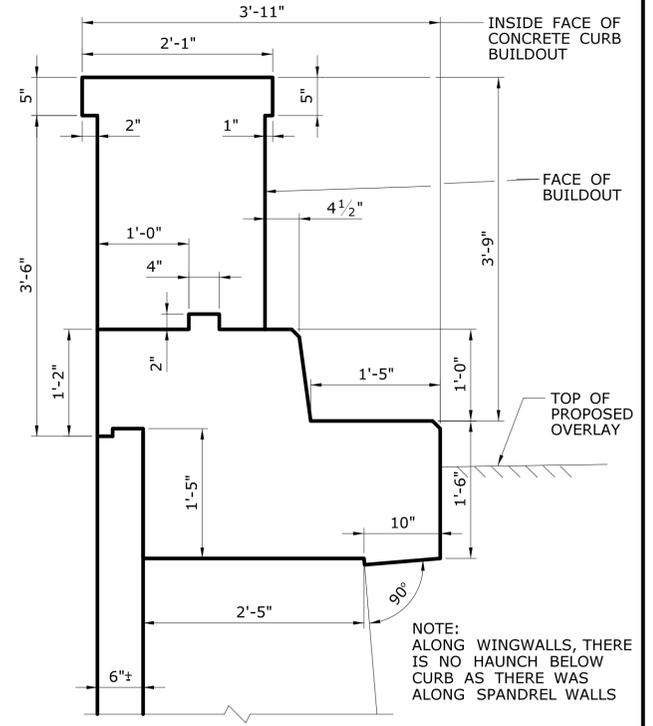


UPPER PORTION OF WINGWALL
SCALE: 1"= 1'-0"

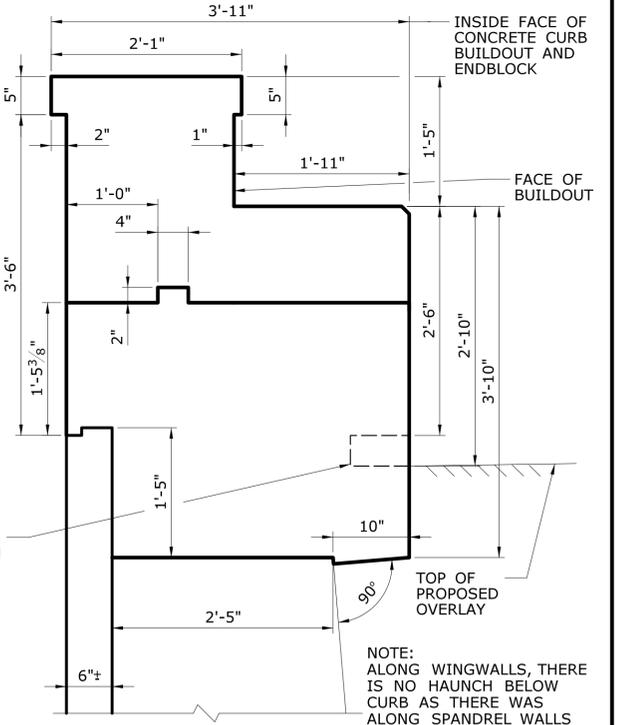


ENDBLOCK
SCALE: 1"= 1'-0"

WINGWALL ENDBLOCK **G**
NOTE: FOR HAUNCH DEPTH LIMITS, SEE DWG S-9 **S-14**

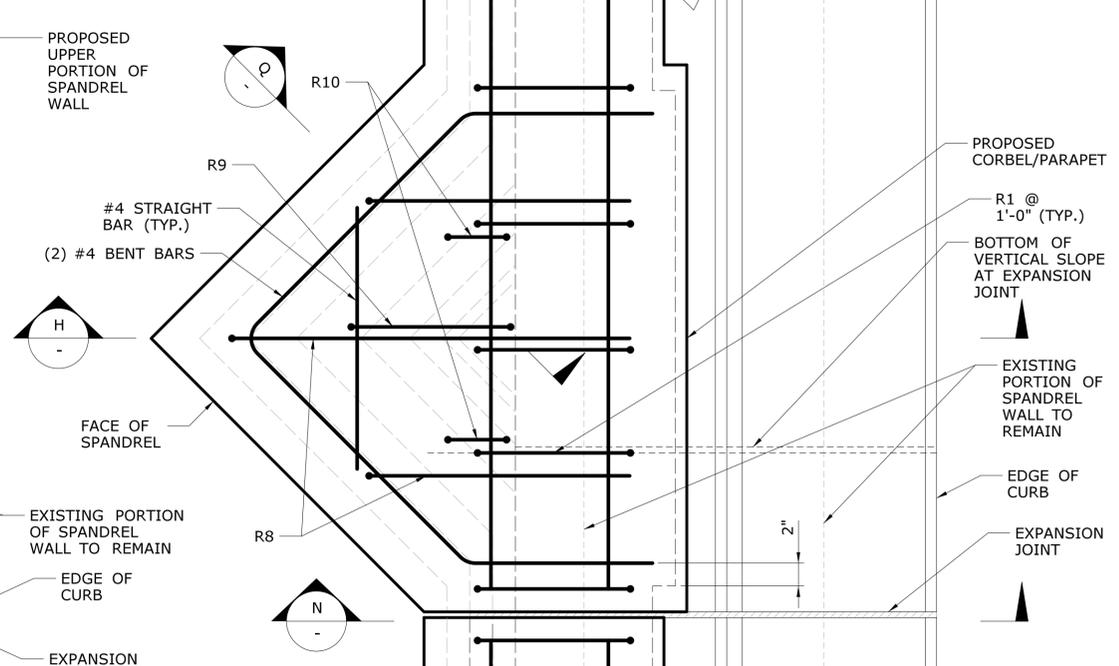
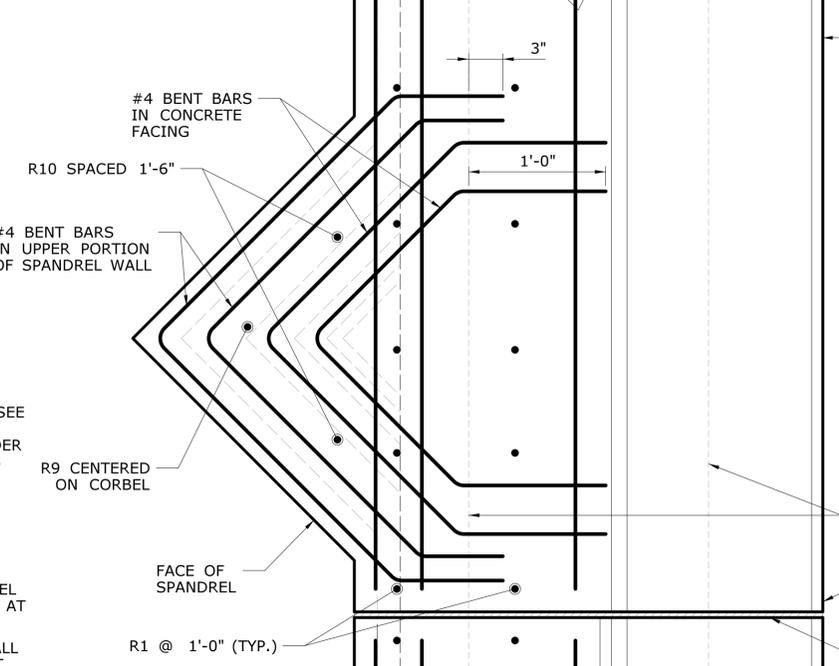
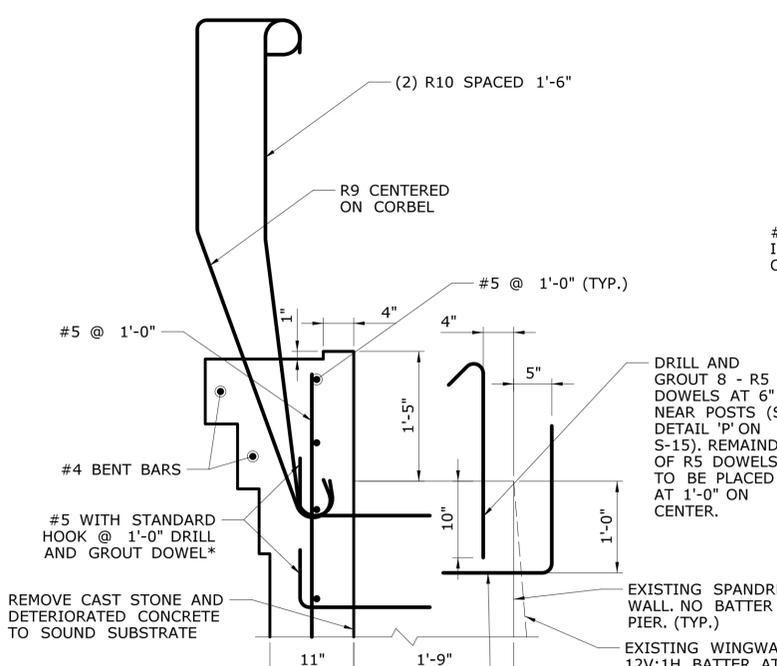


TYPICAL SECTION - FASCIA, WINGWALL AND PARAPET
SCALE: 1"= 1'-0"



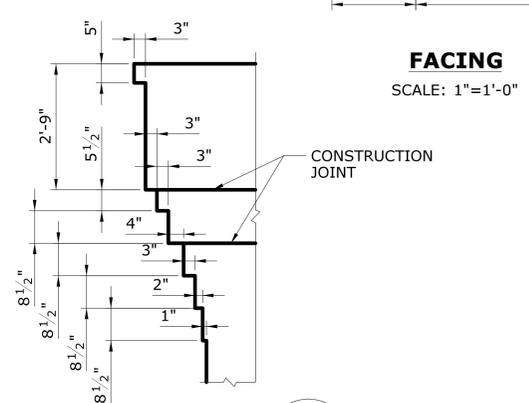
TYPICAL SECTION - FASCIA, WINGWALL AND PARAPET
SCALE: 1"= 1'-0"

DESIGNER/DRAFTER: LFA	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	DRAWING TITLE: WINGWALL REINF. BRIDGE NO. 00726 NEWTOWN TURNPIKE	DRAWING NO. S-12	SHEET NO. 02.01.13
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/27/2016	Filename: ...\\SB-158-211-00726.SPANDREL.REINFORCEMENT.2.dgn	



SECTION - UPPER PORTION OF SPANDREL WALL/WINGWALL
SCALE: 1 1/2"=1'-0"

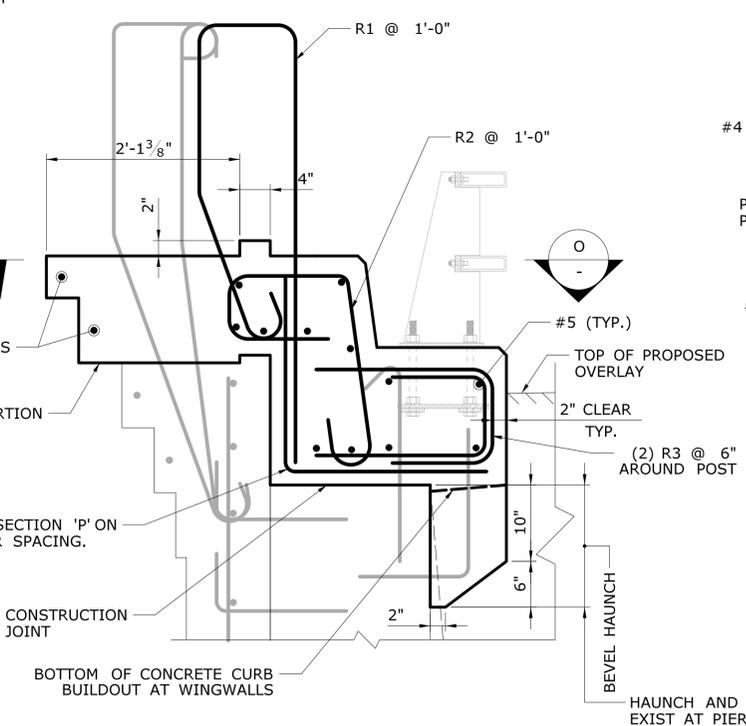
PLAN - CORBEL
SCALE: 1 1/2"=1'-0"



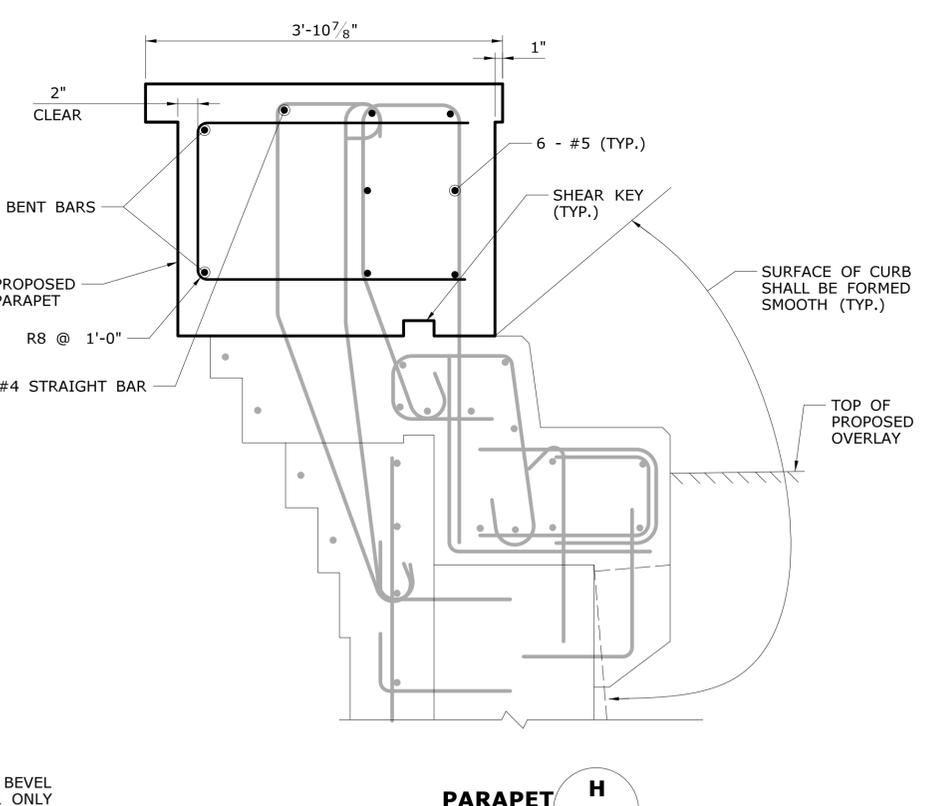
CORBEL EXTENSION
SCALE: 1/2"=1'-0"

* DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHORING MATERIAL TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR OR 125% OF THE YIELD STRENGTH OF THE BAR, WHICHEVER IS GREATER.

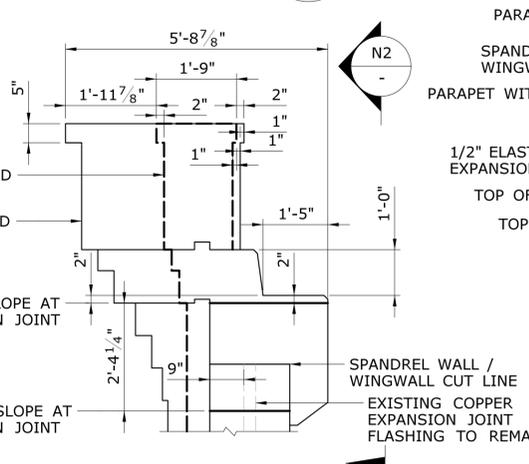
NOTE: ALL EXPOSED SURFACES OF CONCRETE SPANDREL WALLS, CORBELS, PARAPETS AND WINGWALLS SHALL BE FORMED TO LOOK LIKE THE ORIGINAL CAST STONE. THE STONE PATTERN, COLOR AND TEXTURE SHALL SIMULATE THE ORIGINAL MATERIAL.



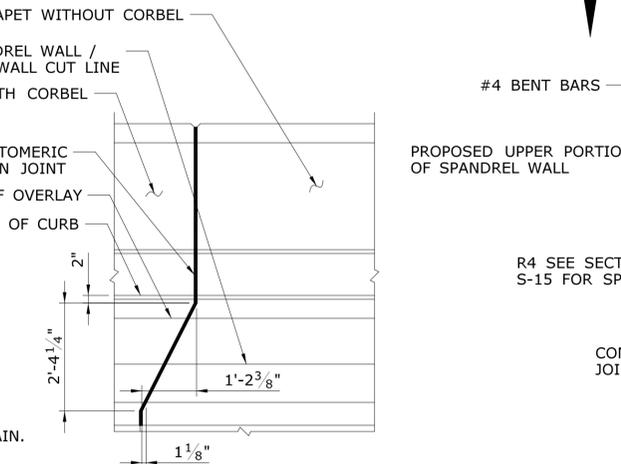
UPPER PORTION OF SPANDREL WALL/WINGWALL
SCALE: 1"=1'-0"
NOTE: FOR HAUNCH DEPTH LIMITS, SEE DWG S-9



PARAPET
SCALE: 1"=1'-0"

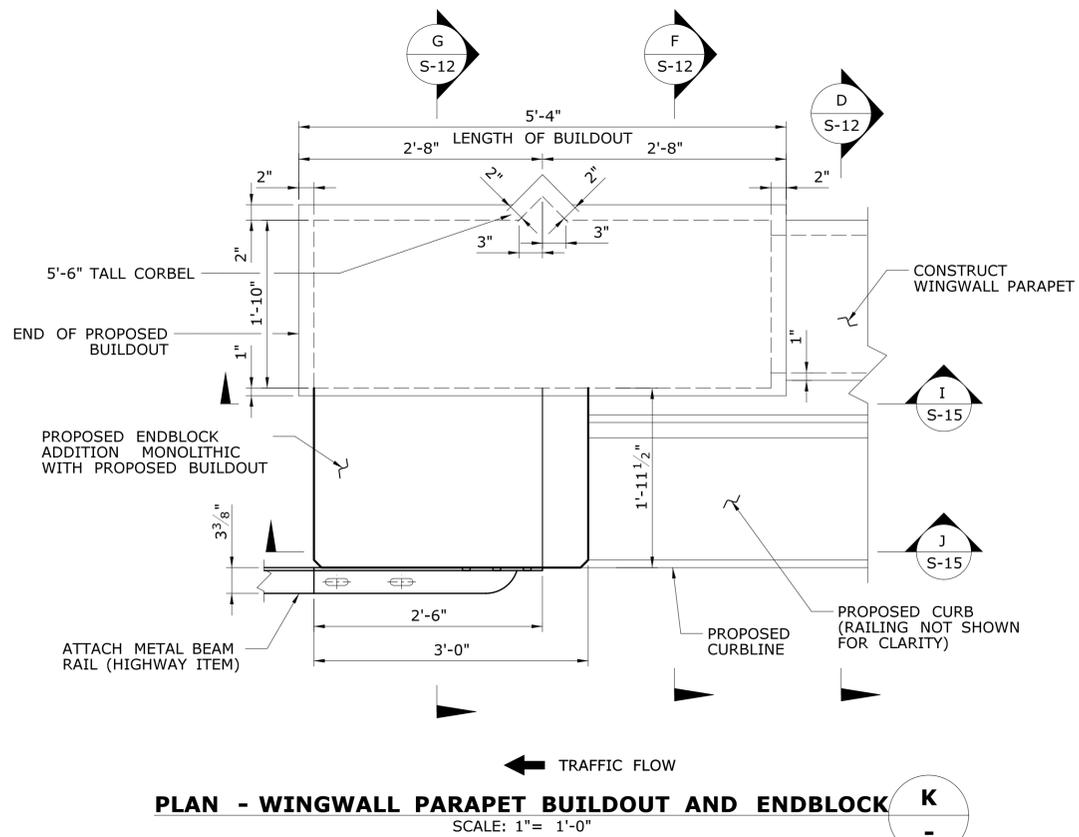


SECTION - EXPANSION JOINT
SCALE: 1/2"=1'-0"

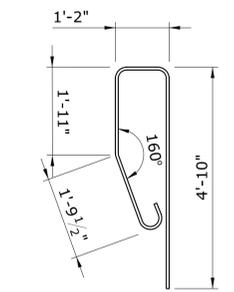


SECTION - EXPANSION JOINT
SCALE: 1/2"=1'-0"

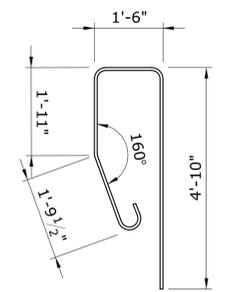
DESIGNER/DRAFTER: LFA	CHECKED BY: JRH/DSG	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/27/2016	SCALE AS NOTED	DRAWING TITLE: CORBEL REINFORCEMENT BRIDGE NO. 00726 NEWTOWN TURNPIKE	DRAWING NO. S-13
			Filename: ...SB-158-211-00726.SPANDREL_REINFORCEMENT 3.dgn			SHEET NO. 02.01.14



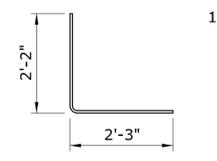
PLAN - WINGWALL PARAPET BUILDOUT AND ENDBLOCK
SCALE: 1" = 1'-0"



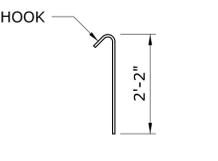
R1 - #6 BAR



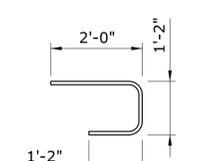
R1B - #6 BAR



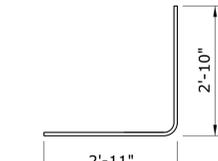
R4 - #5 BAR



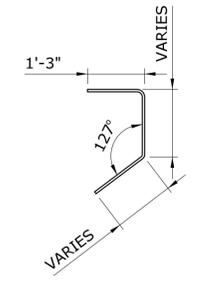
R5 - #5 BAR



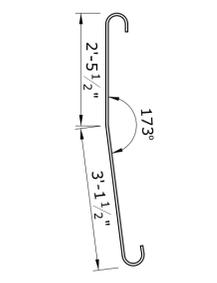
R3 - #7 BAR



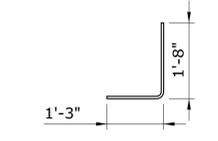
R4B - #5 BAR



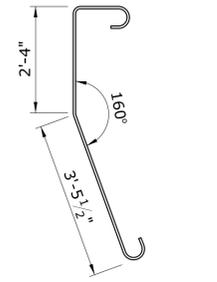
R6 - #5 BAR



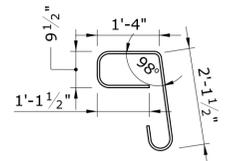
R10 - #5 BAR



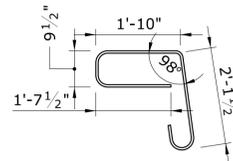
R7 - #5 BAR



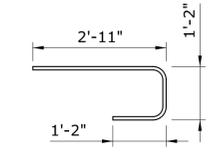
R9 - #5 BAR



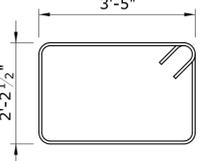
R2 - #5 BAR



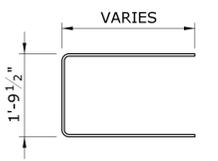
R2B - #5 BAR



R3B - #7 BAR

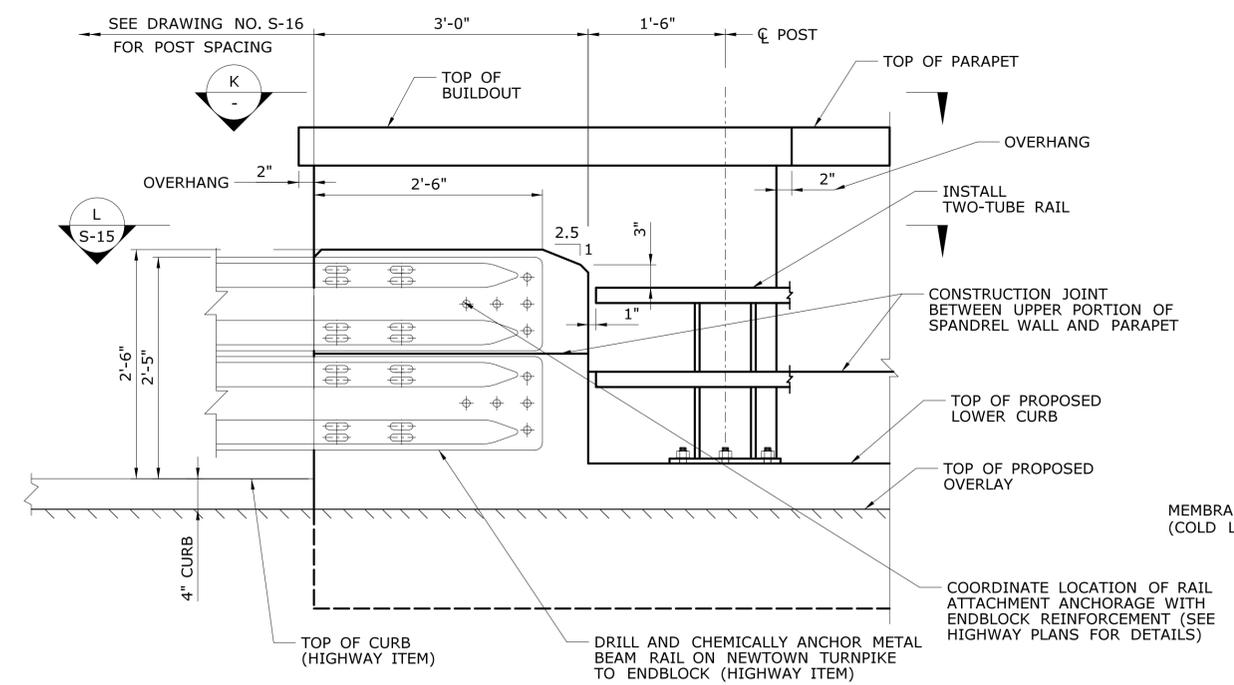


R11B - #6 BAR

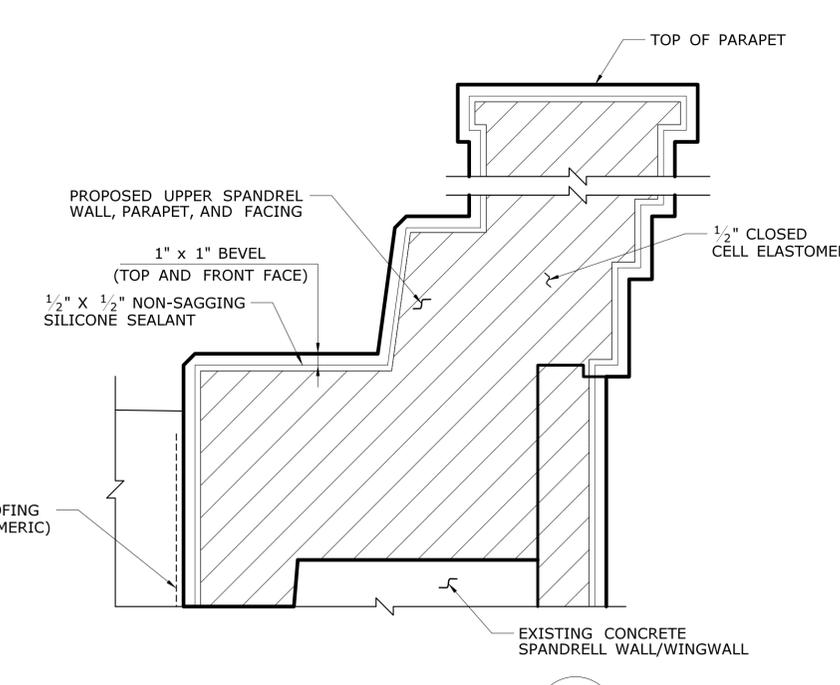


R8 - #5 BAR

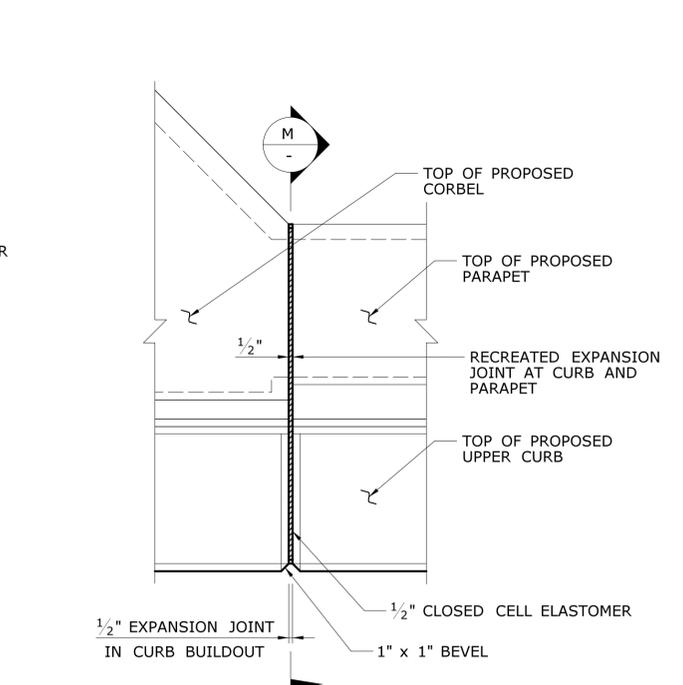
REINFORCEMENT - BENT REBAR
SCALE: 1/2" = 1'-0"



ELEVATION - TYPICAL ENDBLOCK
SCALE: 1" = 1'-0"

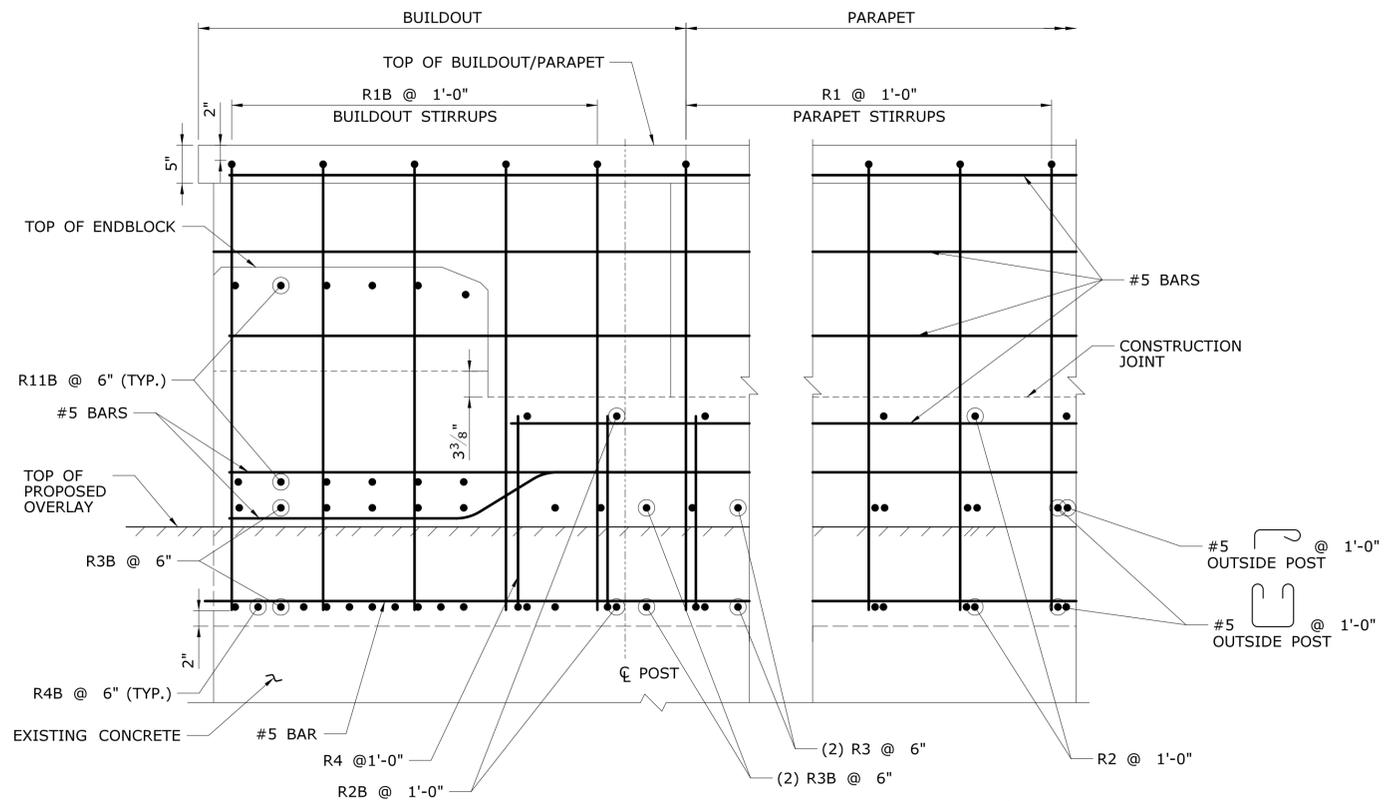


SECTION - TYPICAL EXPANSION JOINT
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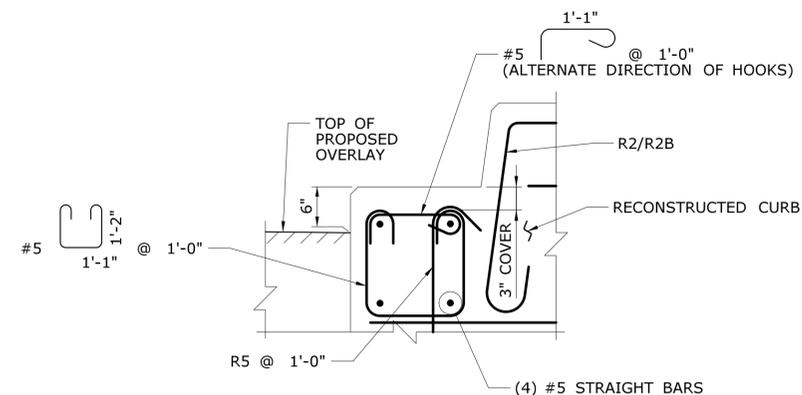


TYPICAL EXPANSION JOINT TREATMENT
SCALE: 1" = 1'-0"

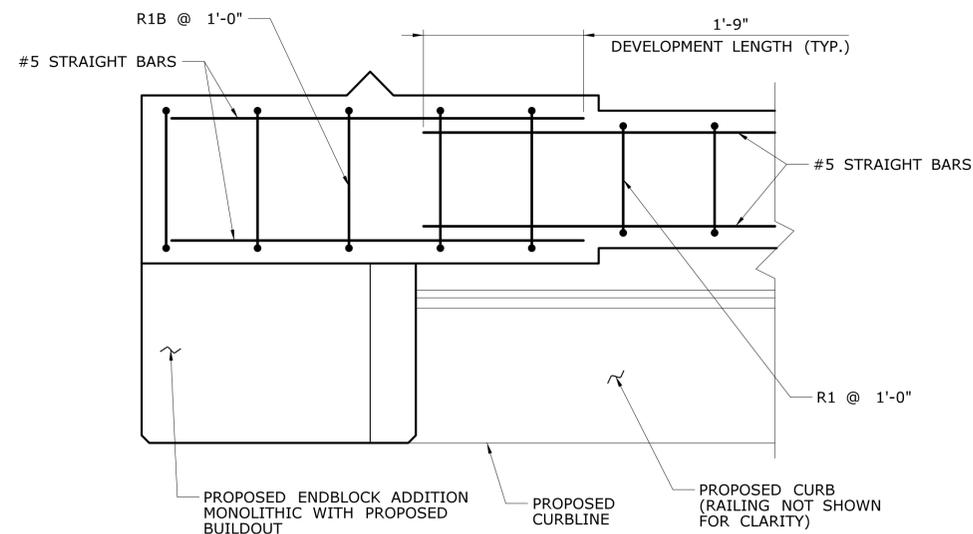
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SCALE AS NOTED	Plotted Date: 7/27/2016	FILENAME: ...SB-158-211-00726.CURB_BUILDOUT_DET 1.dgn	APPROVED BY:		DRAWING TITLE: CURB BUILDOUT DETAILS 1	DRAWING NO. S-14
REV. DATE	REVISION DESCRIPTION	SHEET NO.				SHEET NO. 02.01.15



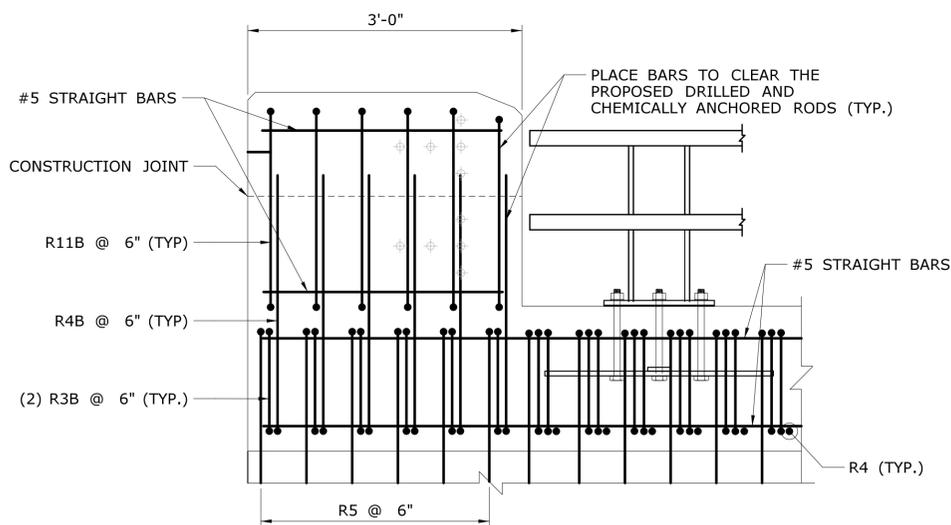
SECTION - WINGWALL PARAPET BUILDOUT AND PARAPET REINFORCEMENT
SCALE: 1" = 1'-0"
I
S-14



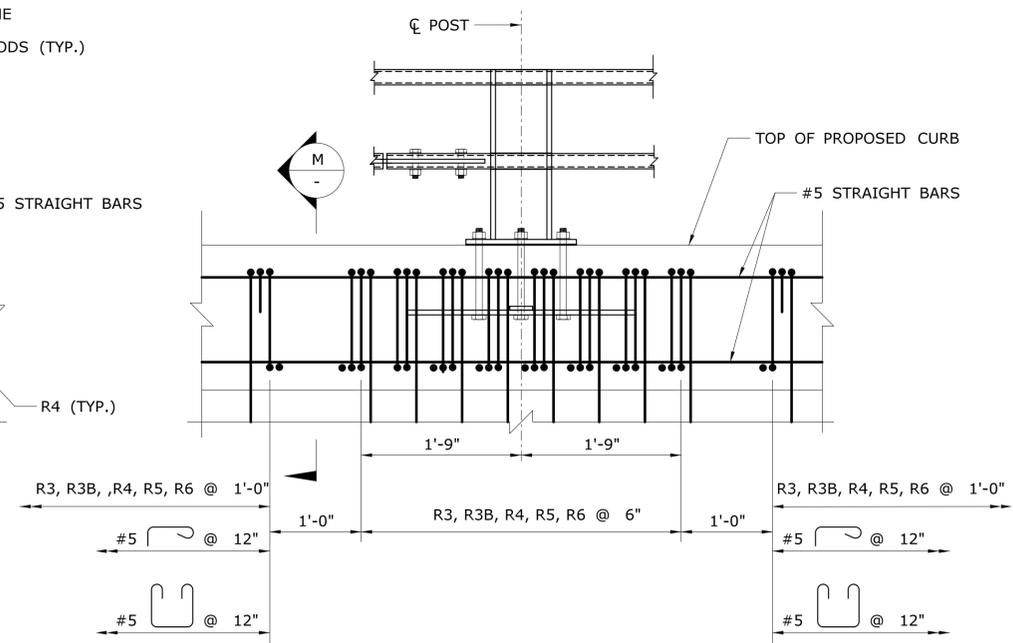
SECTION - TYPICAL REINFORCEMENT BETWEEN POSTS
SCALE: 1" = 1'-0"
M



PLAN - BUILDOUT AND PARAPET REINFORCEMENT
SCALE: 1" = 1'-0"
L
S-14



SECTION - ENDBLOCK REINFORCEMENT
SCALE: 1" = 1'-0"
J
S-14



SECTION - PROPOSED CURB BUILDOUT REINFORCEMENT
SCALE: 1" = 1'-0"
P
S-10

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **LFA**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED



SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: *Mary E. Baker*

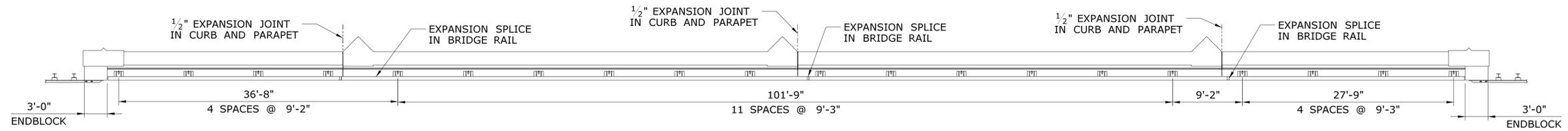
PROJECT TITLE: **MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE: **CURB BUILDOUT DETAILS 2**
BRIDGE NO. 00726
NEWTOWN TURNPIKE

PROJECT NO. **158-211**
DRAWING NO. **S-15**
SHEET NO. **02.01.16**

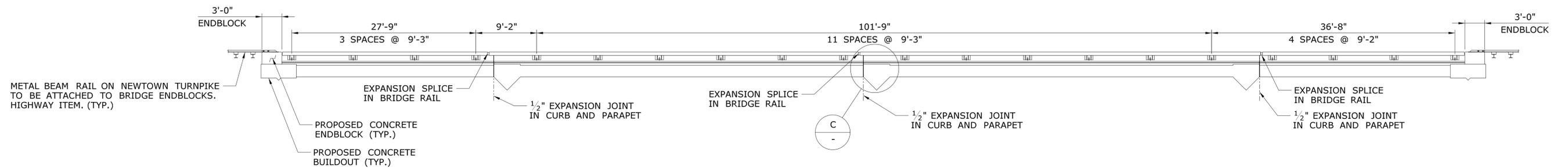
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Filename: ...SB-158-211-00726-CURB-BUILDOUT-DET 2.dgn



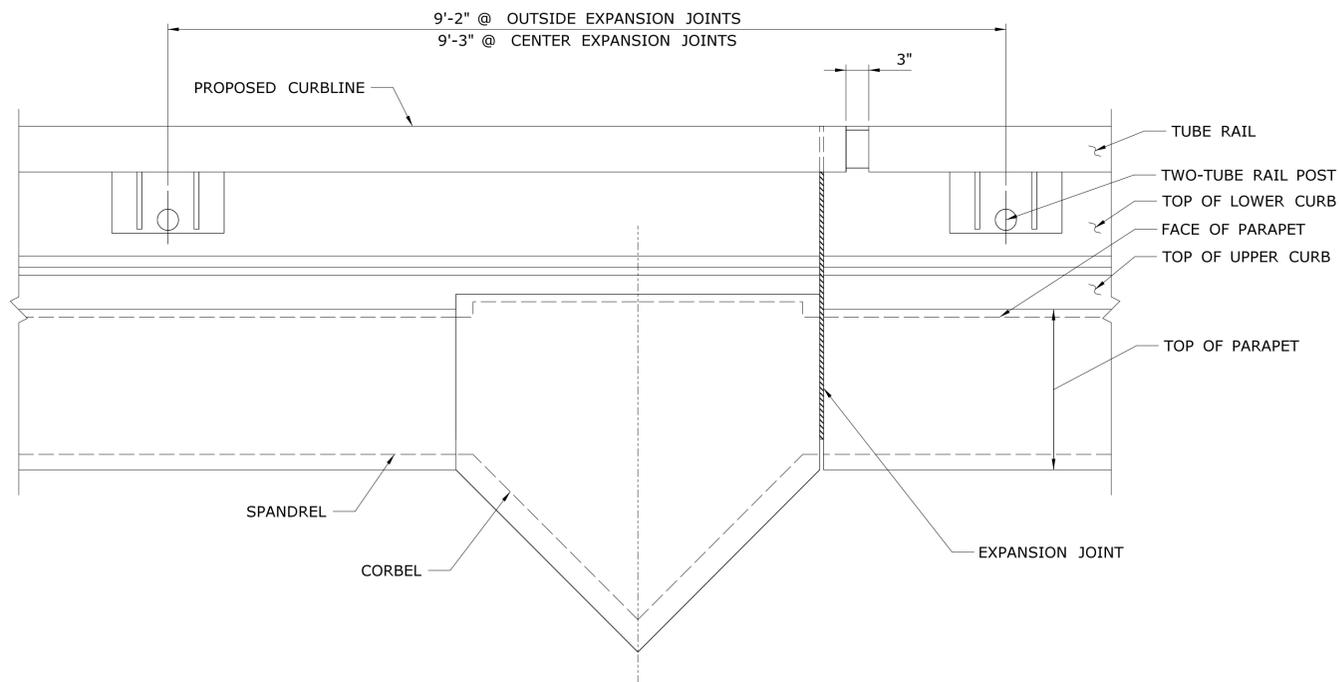
TWO-TUBE RAIL POST SPACING - EAST SPANDREL WALL

SCALE: 1/8"=1'-0"



TWO-TUBE RAIL POST SPACING - WEST SPANDREL WALL

SCALE: 1/8"=1'-0"



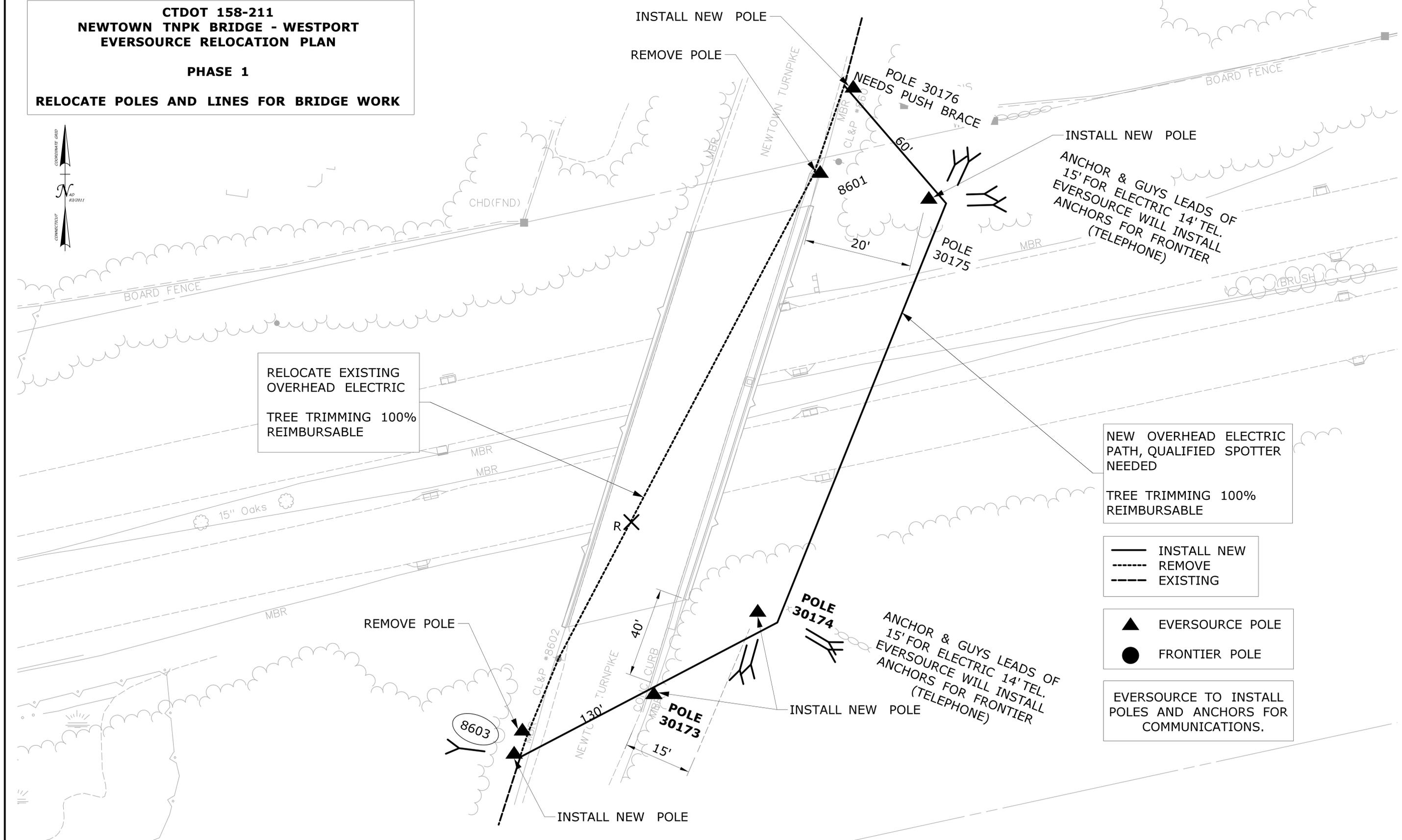
TWO-TUBE RAIL AT EXPANSION JOINTS

SCALE: 1"=1'-0"



<table border="1"> <tr> <td>REV.</td> <td>DATE</td> <td>REVISION DESCRIPTION</td> <td>SHEET NO.</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	REV.	DATE	REVISION DESCRIPTION	SHEET NO.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<p>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.</p> <p>Plotted Date: 7/27/2016</p>	<p>DESIGNER/DRAFTER: LFA</p> <p>CHECKED BY: JRH/DSG</p> <p>SCALE AS NOTED</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Filename: ...SB-158-211-00726_RAIL_PLN.dgn</p>	<p>SIGNATURE/BLOCK: OFFICE OF ENGINEERING</p> <p>APPROVED BY: <i>Mary E. Baker</i></p>	<p>PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS</p>	<p>TOWN: WESTPORT/FAIRFIELD</p> <p>DRAWING TITLE: RAILING PLAN BRIDGE NO. 00726 NEWTOWN TURNPIKE</p>	<p>PROJECT NO. 158-211</p> <p>DRAWING NO. S-16</p> <p>SHEET NO. 02.01.17</p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.																																				
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**CTDOT 158-211
NEWTOWN TNPK BRIDGE - WESTPORT
EVERSOURCE RELOCATION PLAN
PHASE 1
RELOCATE POLES AND LINES FOR BRIDGE WORK**



RELOCATE EXISTING OVERHEAD ELECTRIC
TREE TRIMMING 100% REIMBURSABLE

NEW OVERHEAD ELECTRIC PATH, QUALIFIED SPOTTER NEEDED
TREE TRIMMING 100% REIMBURSABLE

— INSTALL NEW
- - - REMOVE
- · - · - EXISTING

▲ EVERSOURCE POLE
● FRONTIER POLE

EVERSOURCE TO INSTALL POLES AND ANCHORS FOR COMMUNICATIONS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

Plotted Date: 7/11/2016

DESIGNER/DRAFTER:
CHECKED BY:
NOT TO SCALE


**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**


Filename: ...SB-158-211-00726-UtilityPlan PHASE 1.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Mary E. Baker

PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

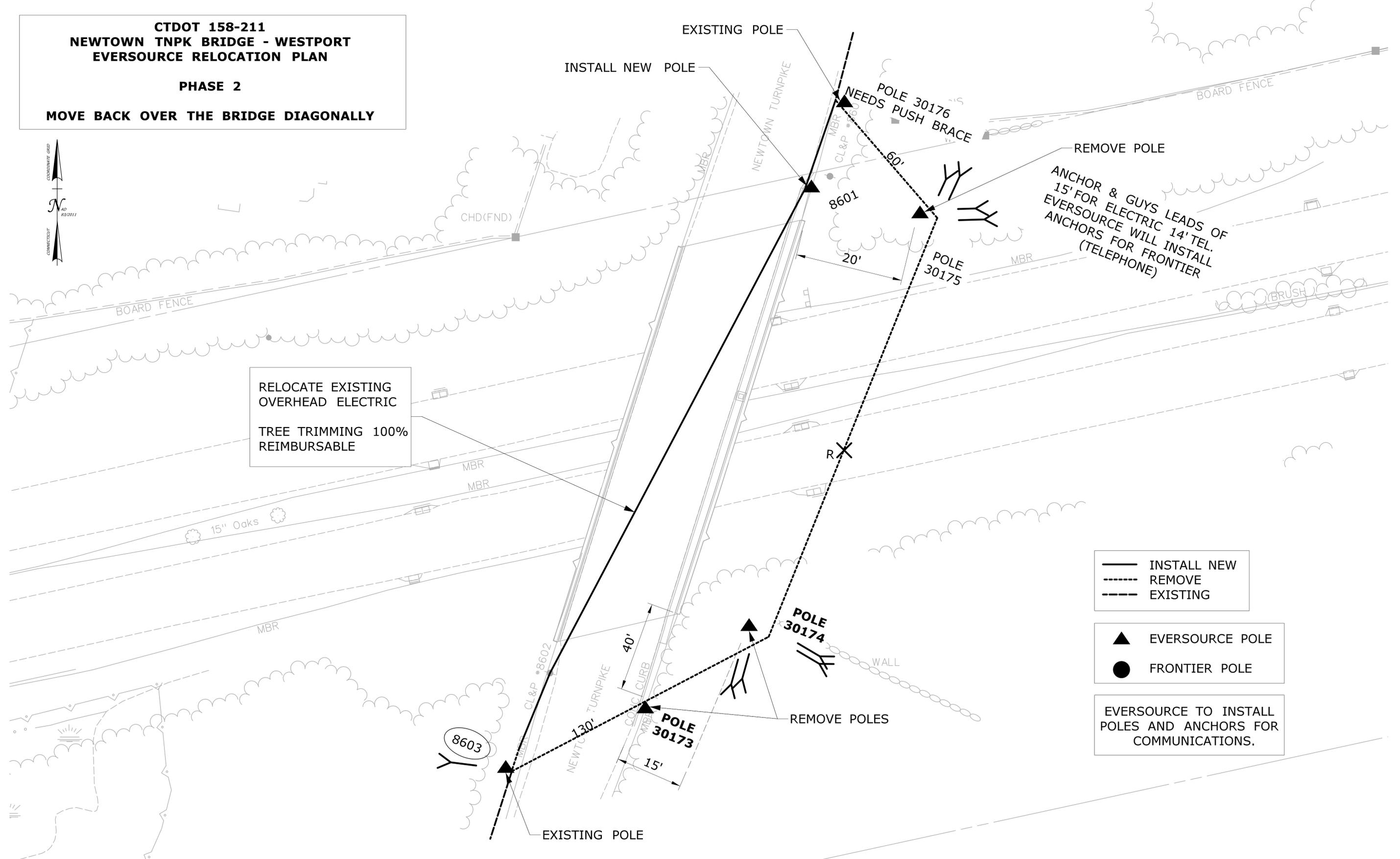
TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE:
**EVERSOURCE REL. PLAN 1
BRIDGE NO. 00726
NEWTOWN TURNPIKE**

PROJECT NO. **158-211**
DRAWING NO. **S-17**
SHEET NO. **02.01.18**

**CTDOT 158-211
 NEWTOWN TNPK BRIDGE - WESTPORT
 EVERSOURCE RELOCATION PLAN
 PHASE 2
 MOVE BACK OVER THE BRIDGE DIAGONALLY**



EXISTING POLE
 INSTALL NEW POLE



RELOCATE EXISTING
 OVERHEAD ELECTRIC
 TREE TRIMMING 100%
 REIMBURSABLE

— INSTALL NEW
 - - - REMOVE
 - - - EXISTING

▲ EVERSOURCE POLE
 ● FRONTIER POLE

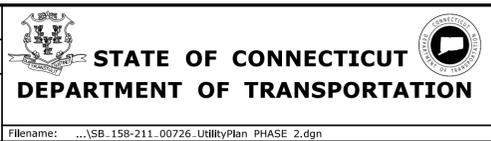
EVERSOURCE TO INSTALL
 POLES AND ANCHORS FOR
 COMMUNICATIONS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

Plotted Date: 7/11/2016

DESIGNER/DRAFTER:
 CHECKED BY:
 NOT TO SCALE



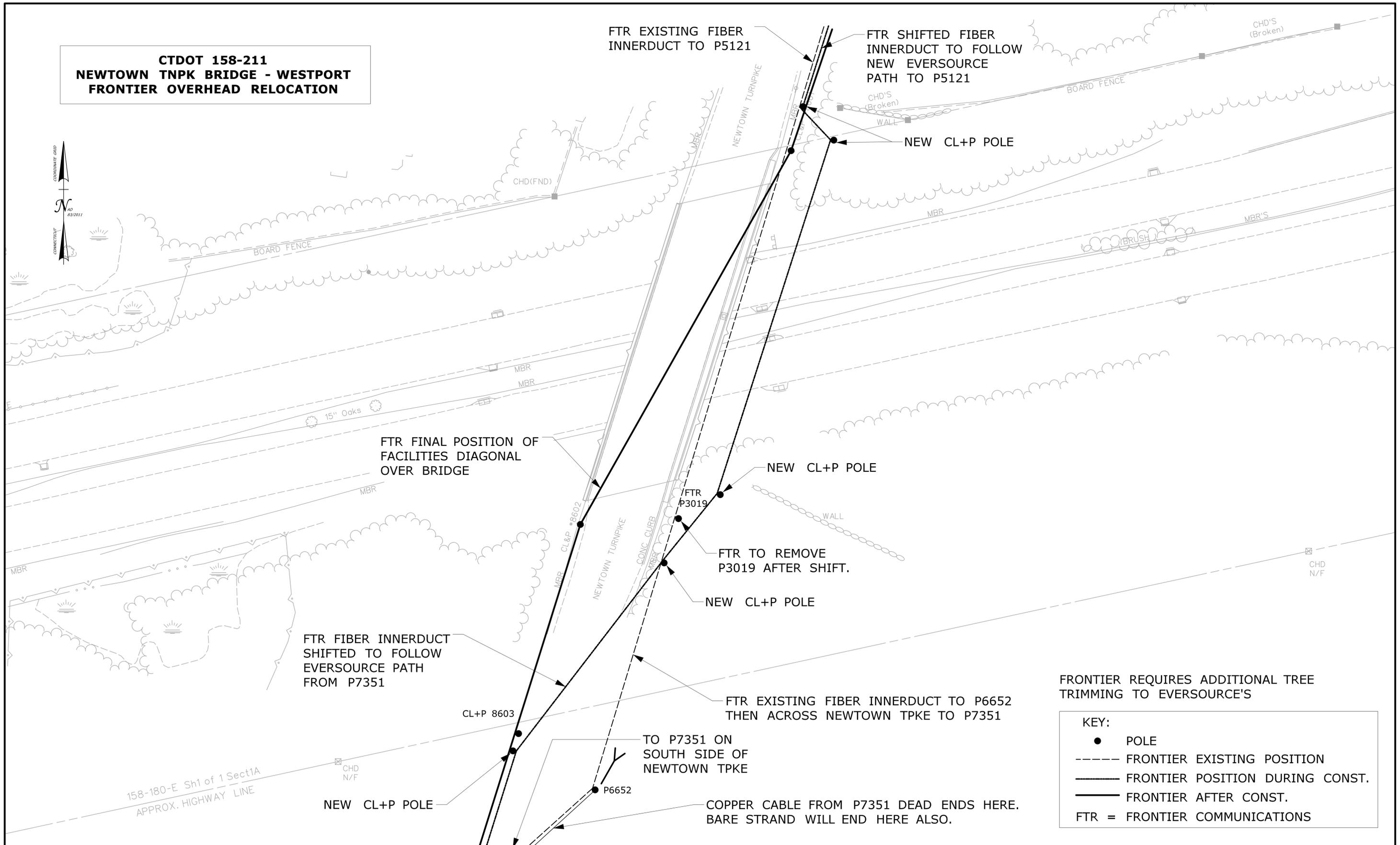
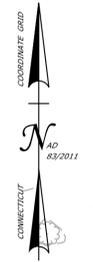
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 BLOCK:
OFFICE OF ENGINEERING
 APPROVED BY:
Mary E. Baker

PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
 SAFETY IMPROVEMENTS, RESURFACING,
 ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE:
**EVERSOURCE REL. PLAN 2
 BRIDGE NO. 00726
 NEWTOWN TURNPIKE**

PROJECT NO. **158-211**
 DRAWING NO. **S-18**
 SHEET NO. **02.01.19**

**CTDOT 158-211
 NEWTOWN TNPK BRIDGE - WESTPORT
 FRONTIER OVERHEAD RELOCATION**



FRONTIER REQUIRES ADDITIONAL TREE TRIMMING TO EVERSOURCE'S

KEY:

- POLE
- FRONTIER EXISTING POSITION
- FRONTIER POSITION DURING CONST.
- FRONTIER AFTER CONST.
- FTR = FRONTIER COMMUNICATIONS

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.		DESIGNER/DRAFTER: CHECKED BY: NOT TO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Signature: <i>Mary E. Baker</i></p>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 7/11/2016	FILENAME: ...SB-158-211-00726-UtilityPlan FRONTIER.dgn	DRAWING TITLE: FRONTIER OVERHEAD REL. BRIDGE NO. 00726 NEWTOWN TURNPIKE	DRAWING NO. S-19	SHEET NO. 02.01.20	

GENERAL DESCRIPTION OF WORK

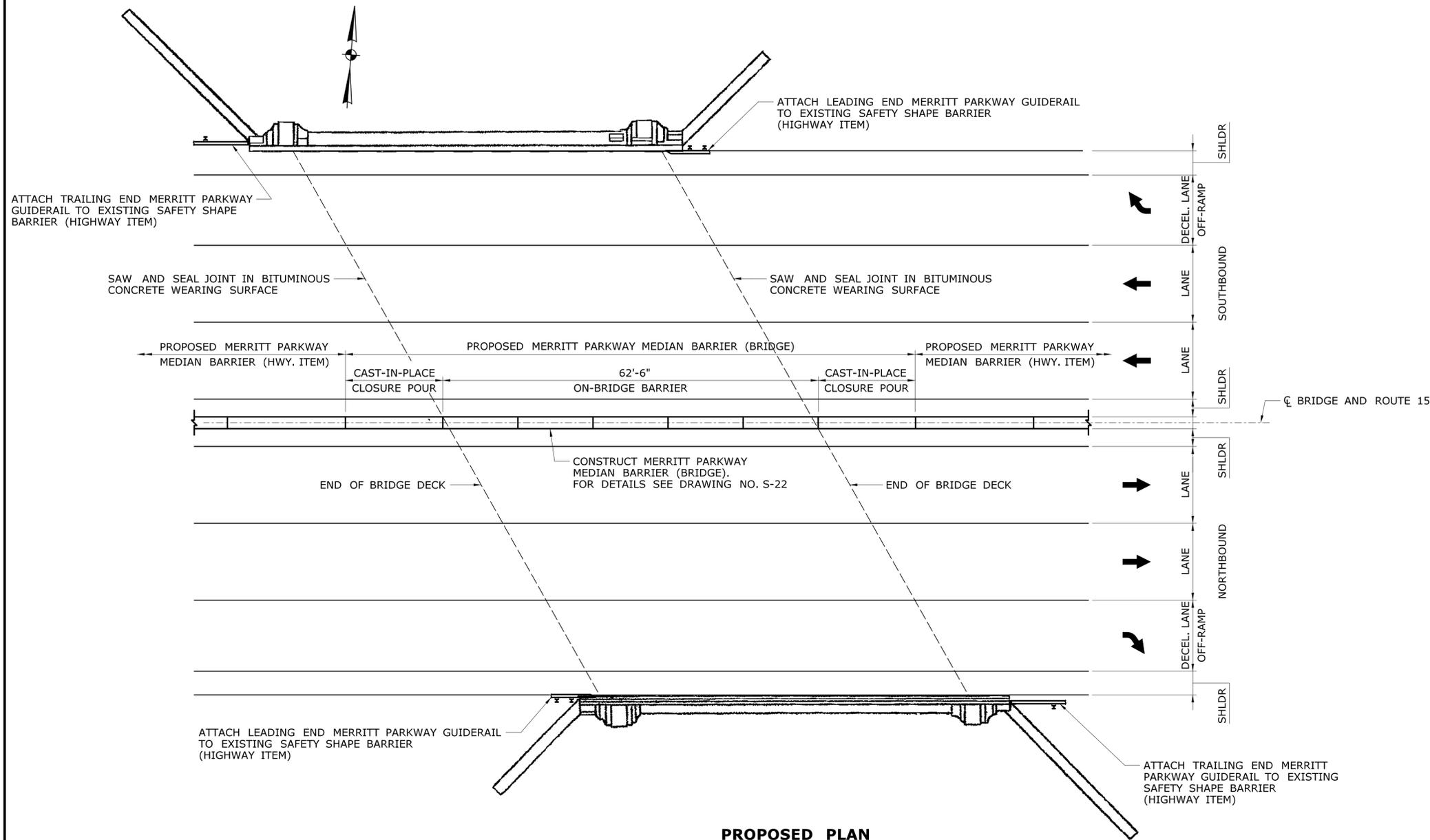
REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE

GENERAL BRIDGE WORK

- REMOVE ALL EXISTING COATING ON CONCRETE SURFACES. TO BE PAID FOR UNDER THE ITEM "RECYCLABLE ENCAPSULATED ABRASIVE MEDIA CLEANING".
- REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE. THIS INCLUDES THE ABUTMENTS, WINGWALLS, PYLONS, AND PARAPETS. IF THE PRESTRESSED DECK UNITS REQUIRE REPAIRS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- APPLY "COLOR-MATCHED STAIN FOR CONCRETE" TO EXPOSED SURFACES OF WINGWALLS, PYLONS, OUTER PORTIONS OF ABUTMENTS PREVIOUSLY EXTENDED, OUTSIDE FACE OF PARAPETS, AND OUTSIDE FACE OF FASCIA DECK UNITS.

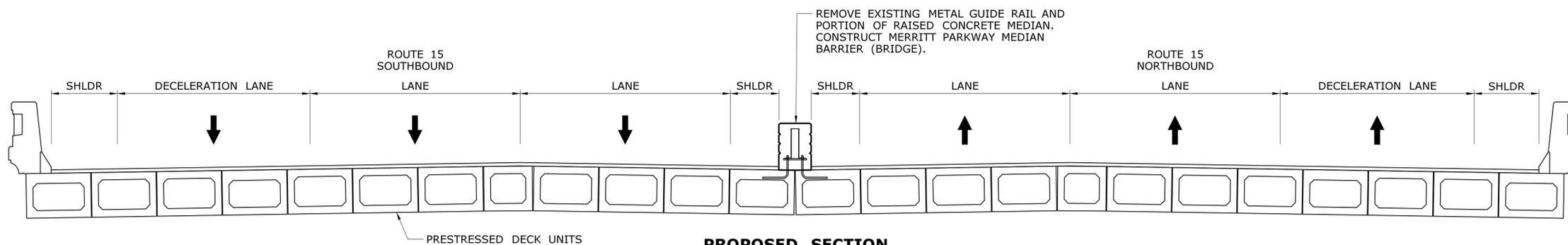
TOPSIDE WORK

- ESTABLISH MP&T CONTROLS
- REMOVE EXISTING METAL BEAM RAIL AND PORTION OF THE RAISED CONCRETE MEDIAN ON ROUTE 15, AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER (BRIDGE).
- REMOVE BITUMINOUS WEARING SURFACE AND MEMBRANE WATERPROOFING AT TOP OF PRESTRESSED DECK UNITS.
- REPAIR GROUTED JOINTS BETWEEN DECK UNITS AS NEEDED.
- APPLY MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) TO TOP OF DECK, AND PAVE ROADWAY.
- SAW CUT AND SEAL DECK JOINTS OVER BOTH ABUTMENTS.
- ATTACH MERRITT PARKWAY GUIDERAIL TO EXISTING SAFETY SHAPE BARRIERS.



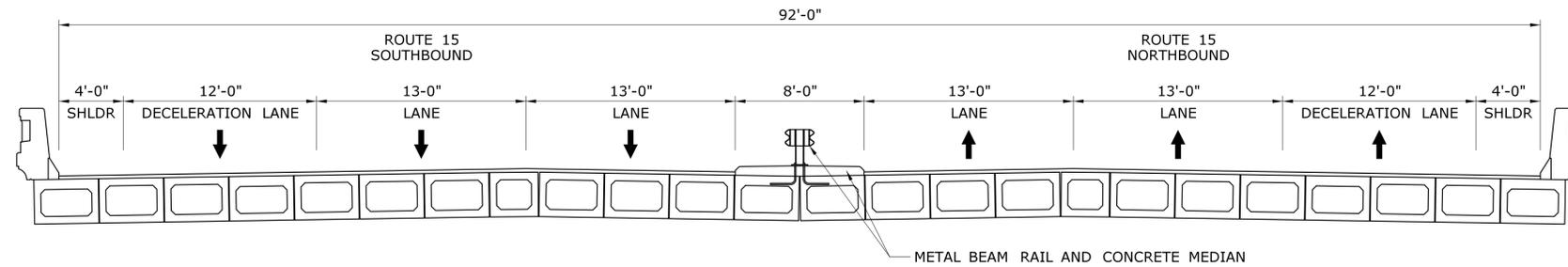
PROPOSED PLAN
BRIDGE NO. 05763 - ROUTE 15 OVER WILTON RD
 SCALE: 3/32" = 1'-0"

NOTE:
 FINAL LANE AND SHOULDER LAYOUTS AT BRIDGE SHALL BE PER HIGHWAY PLANS. REFER TO HIGHWAY PLANS FOR MILL AND PAVE LIMITS.



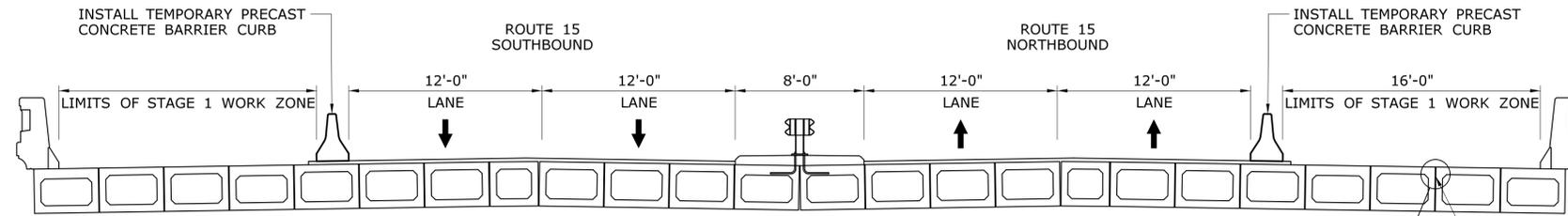
PROPOSED SECTION
BRIDGE NO. 05763 - ROUTE 15 OVER WILTON RD
 SCALE: 1/4" = 1'-0"

REV. DATE REVISION DESCRIPTION SHEET NO.		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.		DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: <i>Mary E. Baker</i>		PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS		TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: GENERAL PLAN BRIDGE NO. 05763 WILTON RD (RT 33)		PROJECT NO. 158-211 DRAWING NO. S-20 SHEET NO. 02.01.21	
Plotted Date: 8/2/2016		SCALE AS NOTED		File name: ...SB-158-211_Brg05763_General_Plan.dgn											

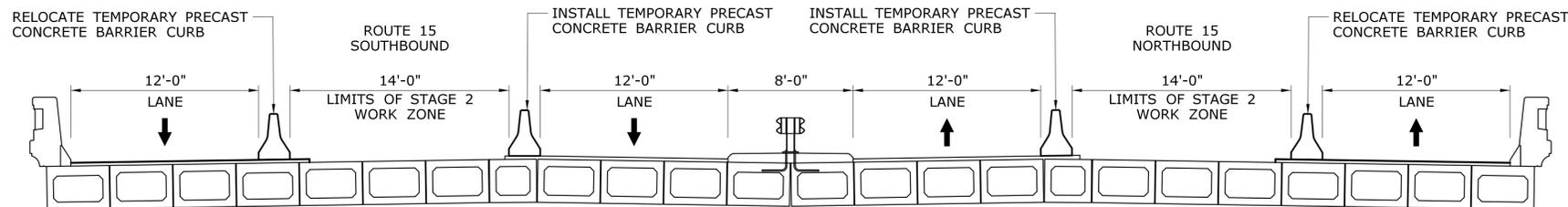


EXISTING CONDITION
SCALE: 3/16" = 1'-0"

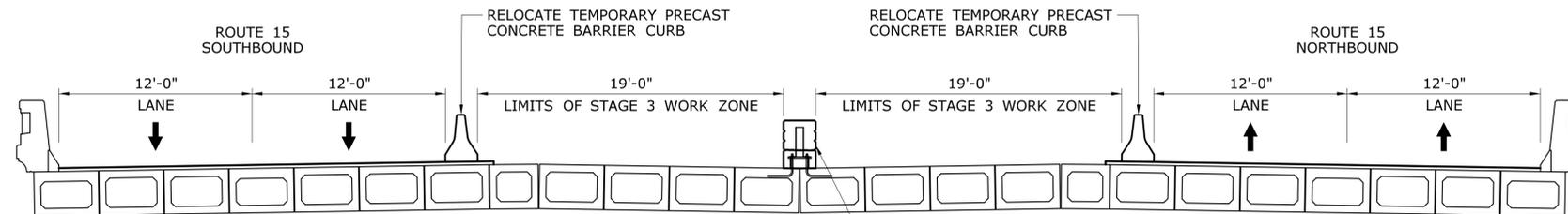
NOTE: DO NOT ANCHOR TEMPORARY PRECAST CONCRETE BARRIER TO DECK UNITS.



STAGE 1
SCALE: 3/16" = 1'-0"



STAGE 2
SCALE: 3/16" = 1'-0"



STAGE 3
SCALE: 3/16" = 1'-0"

REMOVE EXISTING METAL BEAM RAIL AND PORTION OF CONCRETE MEDIAN. CONSTRUCT MERRITT PARKWAY MEDIAN BARRIER (BRIDGE). SEE DRAWING NO. S-22 FOR DETAILS.

PROPOSED SEQUENCE OF STAGE CONSTRUCTION (TOPSIDE WORK)

STAGE 1

1. INSTALL TEMPORARY PRECAST CONCRETE BARRIER CURBS AND ESTABLISH MP&T.
2. REMOVE BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
3. INSPECT GROUTED JOINTS BETWEEN DECK UNITS AND REPAIR GROUT AS NECESSARY.
4. INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).
5. PLACE 1" THICK HMA S0.25 ON THE NEW MEMBRANE FOLLOWED BY 2" THICK PMA S0.5 AS THE WEARING SURFACE.

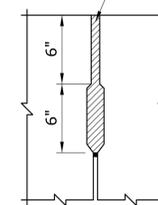
STAGE 2

6. RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURBS AND INSTALL ADDITIONAL TEMPORARY PRECAST CONCRETE BARRIER CURBS AS SHOWN. SHIFT TRAFFIC.
7. REMOVE BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
8. INSPECT GROUTED JOINTS BETWEEN DECK UNITS AND REPAIR GROUT AS NECESSARY.
9. INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).
10. PLACE 1" THICK HMA S0.25 ON THE NEW MEMBRANE FOLLOWED BY 2" THICK PMA S0.5 AS THE WEARING SURFACE.

STAGE 3

11. RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURBS AND SHIFT TRAFFIC.
12. REMOVE EXISTING METAL BEAM RAIL AND PORTION OF CONCRETE MEDIAN. CONSTRUCT MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)
13. REMOVE BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
14. INSPECT GROUTED JOINTS BETWEEN DECK UNITS AND REPAIR GROUT AS NECESSARY.
15. INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).
16. PLACE 1" THICK HMA S0.25 ON THE NEW MEMBRANE FOLLOWED BY 2" THICK PMA S0.5 AS THE WEARING SURFACE.

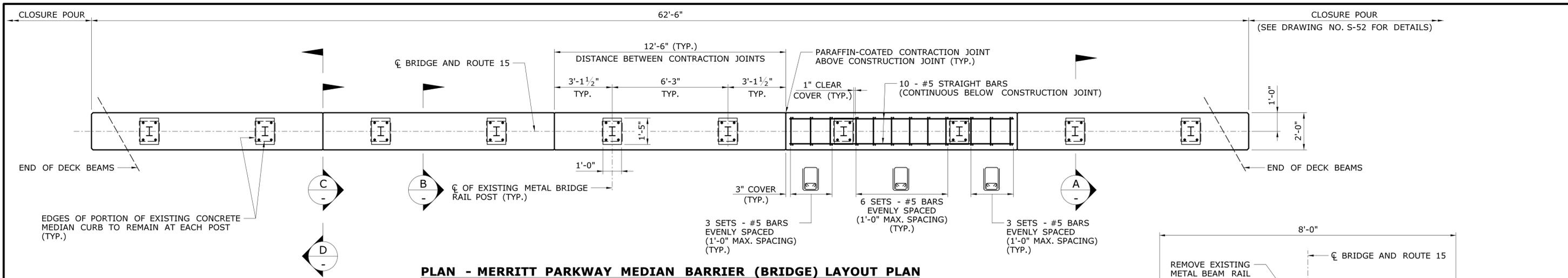
REMOVE UNSOUND KEYWAY GROUT AND FILL WITH NON-SHRINK GROUT. TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)"



TYPICAL SHEAR KEY
SCALE: 1 1/2" = 1'-0"



DESIGNER/DRAFTER: MC	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	DRAWING TITLE: STAGE CONSTRUCTION BRIDGE NO. 05763 WILTON RD (RT 33)	DRAWING NO. S-21	SHEET NO. 02.01.22
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/30/2016	Filename: ...SB-158-211_Brg05763_Stage_Construction.dgn	

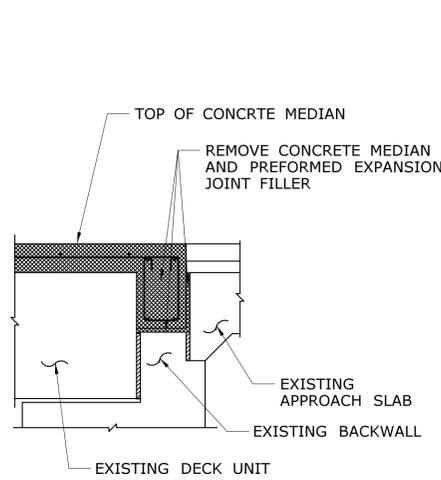


PLAN - MERRITT PARKWAY MEDIAN BARRIER (BRIDGE) LAYOUT PLAN

SCALE: 3/8"=1'-0"

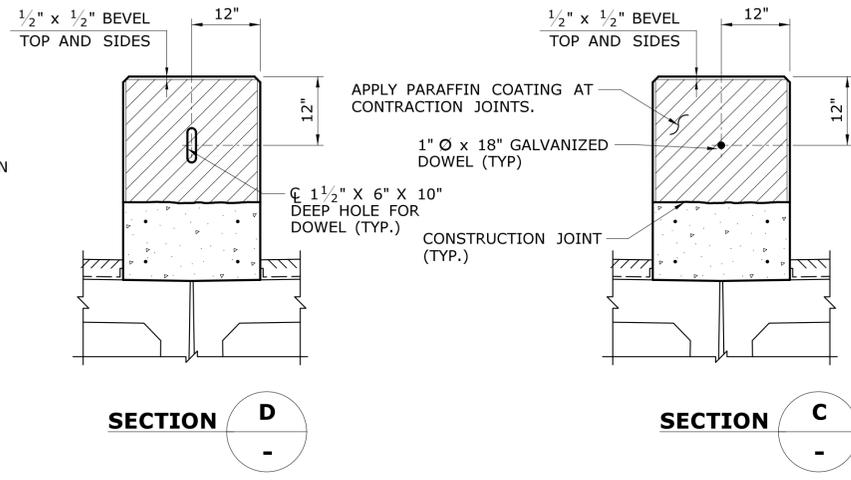
NOTES FOR MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)

1. REINFORCING SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60.
2. CONCRETE SHALL HAVE A MINIMUM $f_c = 4000$ psi.
3. DOWELS BETWEEN BARRIER SEGMENTS SHALL CONFORM TO ASTM A36 AND BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
4. THE HEIGHT OF MEDIAN BARRIER SHALL MATCH THE HEIGHT OF BARRIER ON THE ROADWAY APPROACHES.
5. FOR ADDITIONAL DETAILS SEE TYPICAL SHEET "MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)"
6. THE REMOVAL OF EXISTING CONCRETE MEDIAN TO BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING MASONRY - LIMITED METHODS"
7. THE REPLACEMENT OF JOINT SEALS TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)".



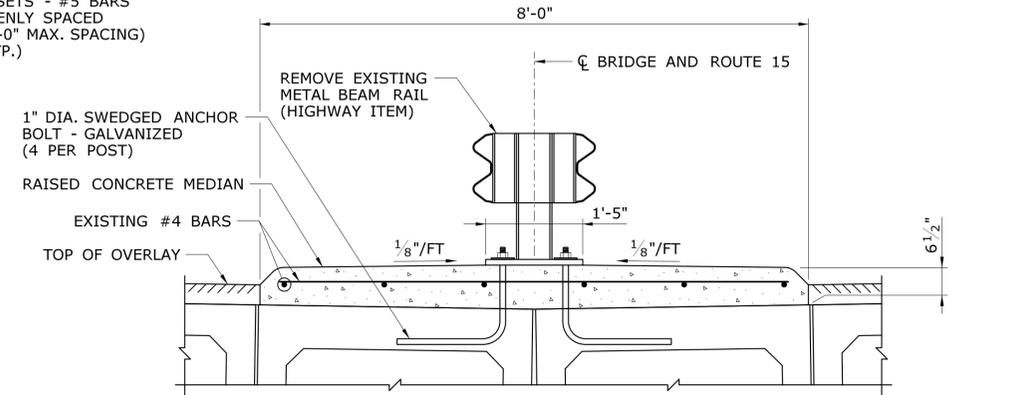
EXISTING SECTION - REMOVAL OF CONCRETE MEDIAN AT ENDS OF DECK

SCALE: 1/2"=1'-0"



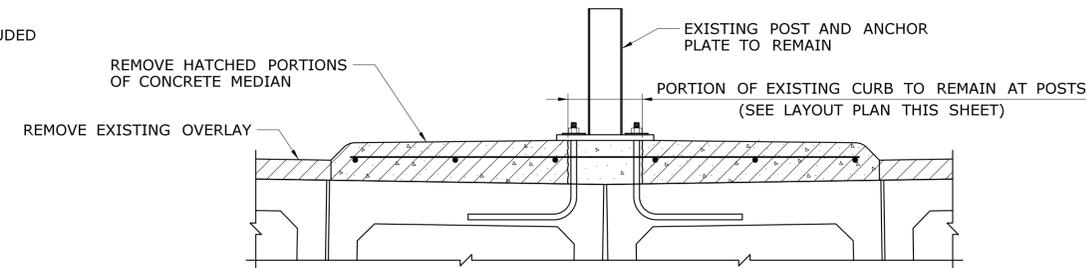
TREATMENT AT CONTRACTION JOINT

SCALE: 3/4"=1'-0"



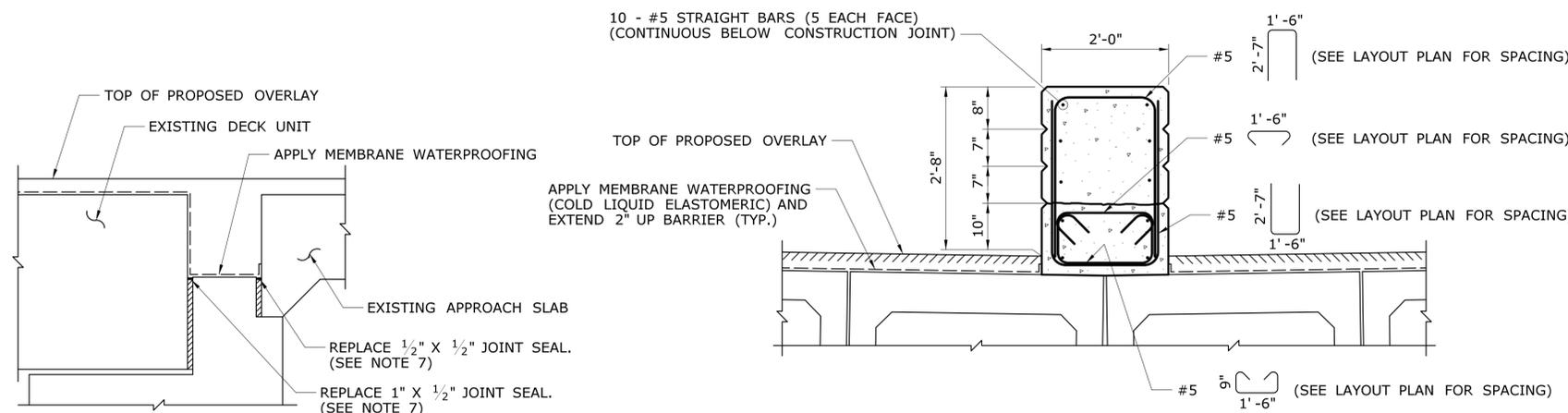
SECTION - EXISTING MEDIAN

SCALE: 3/4"=1'-0"



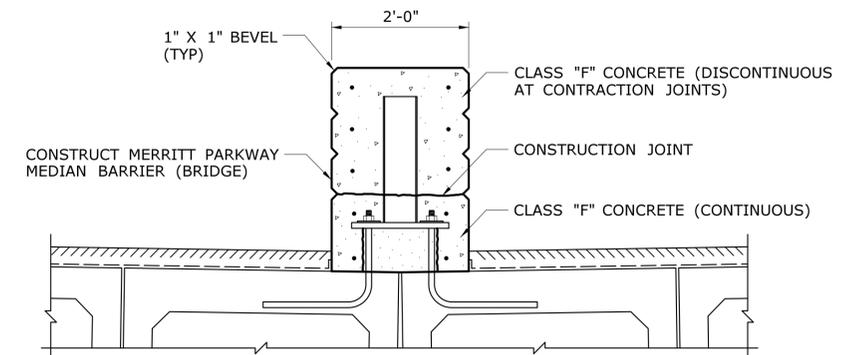
SECTION - REMOVAL LIMITS

SCALE: 3/4"=1'-0"



SECTION - TYPICAL REINFORCEMENT BETWEEN POSTS FOR MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)

SCALE: 3/4"=1'-0"



SECTION - PROPOSED ANCHORAGE FOR MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)

SCALE: 3/4"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **MC**

CHECKED BY: **JRH/DSG**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: *Mary E. Baker*

PROJECT TITLE: **MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**

PROJECT NO.: **158-211**

DRAWING TITLE: **MP MEDIAN BARRIER BRIDGE NO. 05763 WILTON RD (RT 33)**

DRAWING NO.: **S-22**

SHEET NO.: **02.01.23**

GENERAL DESCRIPTION OF WORK

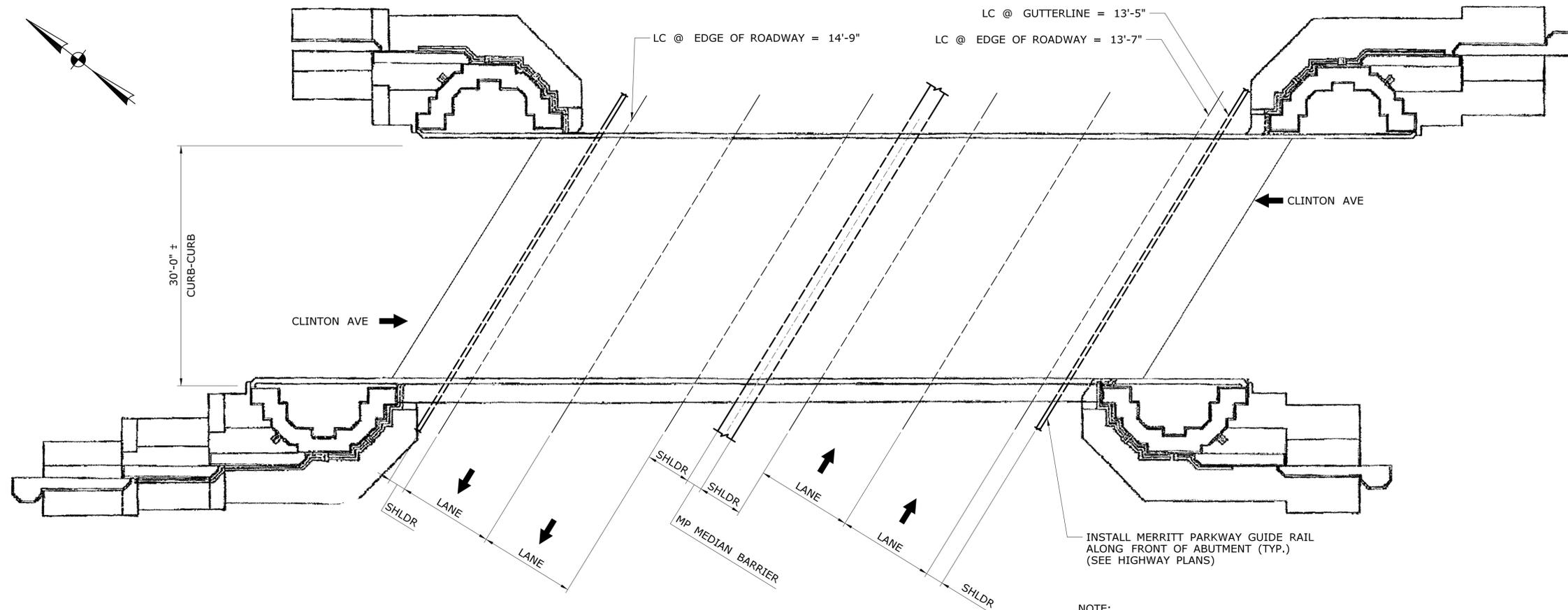
REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE

GENERAL BRIDGE WORK

- DISASSEMBLE HISTORIC RAILING FOR OFFSITE RESTORATION, INCLUDING COMPONENT REPLACEMENT
- ABRASIVE BLAST CLEAN STRUCTURAL STEEL.
- PAINT STRUCTURAL STEEL AND DECORATIVE PANELS TO REPLICATE THE ORIGINAL HISTORIC COLORS.
- CLEAN ALL EXPOSED CONCRETE SURFACES OF BRIDGE.
- OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS
- REMOVE EXISTING GRAFFITI, AS APPLICABLE.
- DEVELOP MOCK-UPS, AS REQUIRED.
- REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
- RESTORE ORNAMENTS AT TOP OF PYLONS.
- CLEAN AND RESEAL EXISTING JOINTS AT PARAPET, CURBS, AND WINGWALLS AS NEEDED. TO BE PAID FOR UNDER THE ITEM "CLEAN AND RESEAL EXISTING FILLED BRIDGE JOINTS".
- APPLY COLOR-MATCHED STAIN ON ALL CONCRETE SURFACES. THIS INCLUDES ABUTMENTS, WINGWALLS, PYLONS, AND CURBS. TO BE PAID FOR UNDER THE ITEM "COLOR-MATCHED STAIN FOR CONCRETE".
- REMOVE EXISTING METAL BEAM RAIL ON ROUTE 15 AT FRONT OF ABUTMENTS AND REPLACE WITH MERRITT PARKWAY TIMBER RAIL
- REMOVE EXISTING CONCRETE SAFETY SHAPE BARRIER IN MEDIAN ON ROUTE 15 AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER.

TOPSIDE WORK

- COORDINATE START OF BRIDGE WORK WITH LOCAL TRAFFIC AUTHORITY
- SURVEY EXISTING ROADWAY PROFILE AND GUTTERLINES FOR RECONSTRUCTION IN-KIND
- NOTIFY UTILITIES OF PROPOSED START OF BRIDGE WORK
- ESTABLISH ONE-WAY ALTERNATING TRAFFIC CONTROLS
- REMOVE HMA WEARING SURFACE, REPAIR UNSOUND CONCRETE AT CURBS AND TOP OF CONCRETE FRAME AS REQUIRED.
- APPLY WATERPROOFING MEMBRANE (COLD LIQUID ELASTOMERIC) TO TOP OF CONCRETE CONCRETE FRAME.
- RE-CONSTRUCT ROADWAY AND REOPEN ROAD TO FULL TRAFFIC



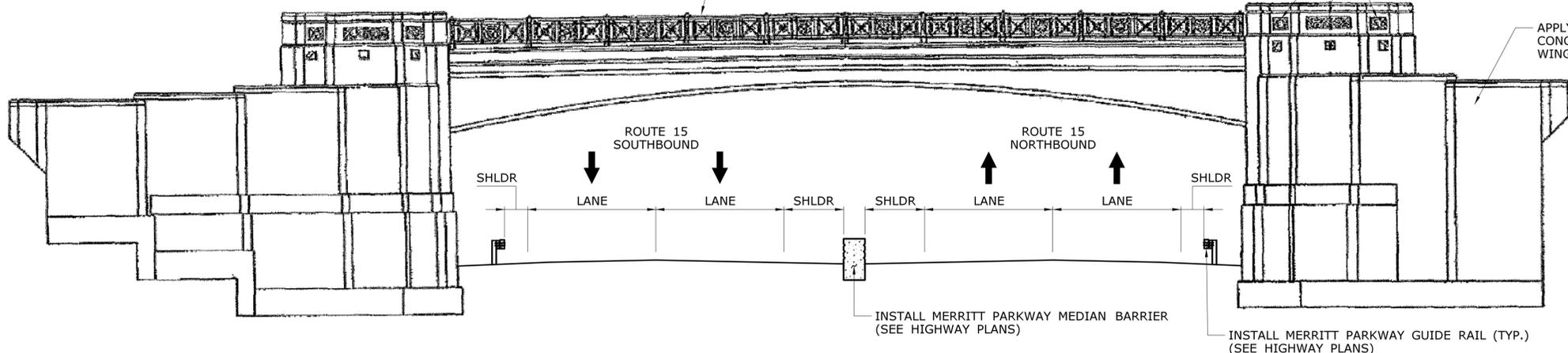
NOTE:
FINAL LANE AND SHOULDER LAYOUTS AT BRIDGE SHALL BE PER HIGHWAY PLANS. REFER TO HIGHWAY PLANS FOR MILL AND PAVE LIMITS.

PROPOSED PLAN
BRIDGE NO. 00729 - ROUTE 15 UNDER CLINTON AVE
N.T.S.

RESTORE DECORATIVE RAILING ON BOTH SIDES. TO BE PAID FOR UNDER THE ITEM "RESTORATION OF METAL FEATURES". (SEE DRAWING NOS. S-25 AND S-26 FOR DETAILS)

RESTORE PYLON ORNAMENTS (TYP. AT EACH PYLON) TO BE PAID FOR UNDER THE ITEM "ARCHITECTURAL TILES". SEE DRAWING NO. S-27 FOR DETAILS.

APPLY COLOR-MATCHED STAIN ON ALL EXPOSED CONCRETE SURFACES. THIS INCLUDES ABUTMENTS, WINGWALLS, PYLONS, AND CURBS



PROPOSED ELEVATION
BRIDGE NO. 00729 - ROUTE 15 UNDER CLINTON AVE
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

Plotted Date: 7/22/2016

DESIGNER/DRAFTER: **MC**

CHECKED BY: **JRH/DSG**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...SB-158-211_Brg00729_General_Plan.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: *Mary E. Baker*

PROJECT TITLE: **MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

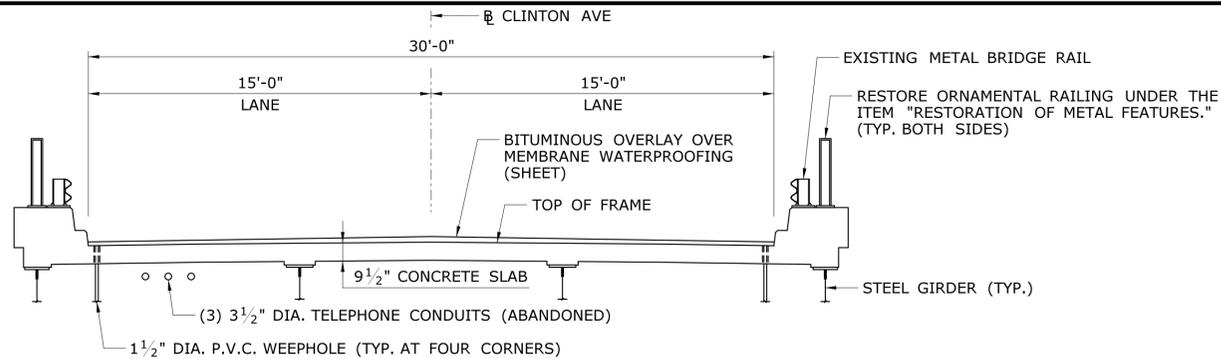
TOWN: **WESTPORT/FAIRFIELD**

DRAWING TITLE: **GENERAL PLAN BRIDGE NO. 00729 CLINTON AVE**

PROJECT NO. **158-211**

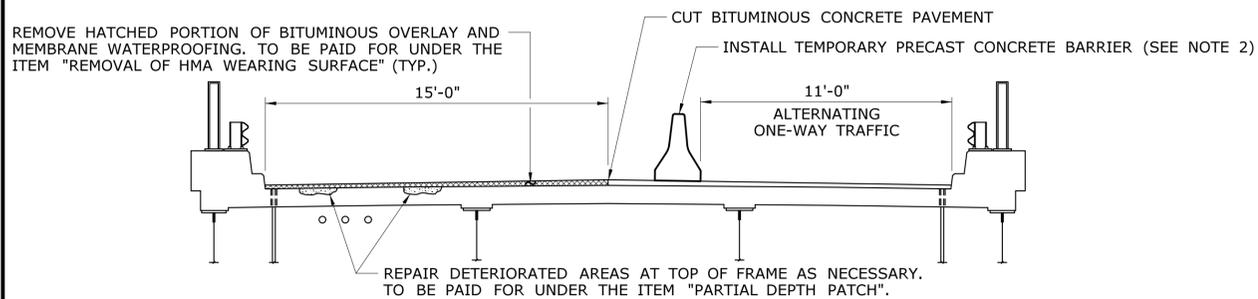
DRAWING NO. **S-23**

SHEET NO. **02.01.24**



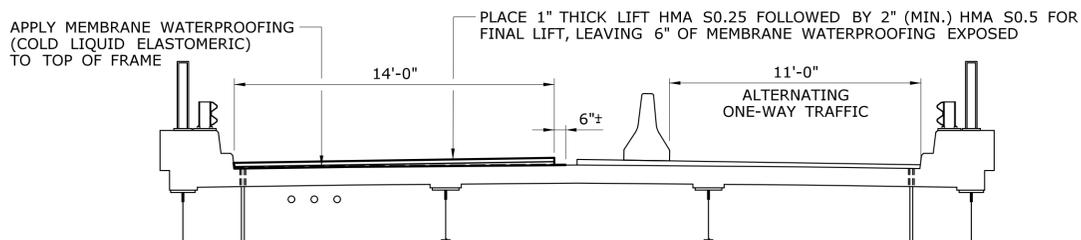
TYPICAL SECTION - EXISTING CONDITION

SCALE: 1/4"=1'-0"



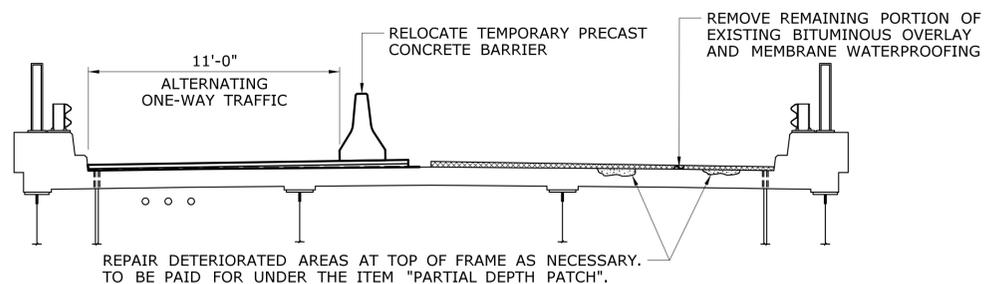
STAGE 1A

SCALE: 1/4"=1'-0"



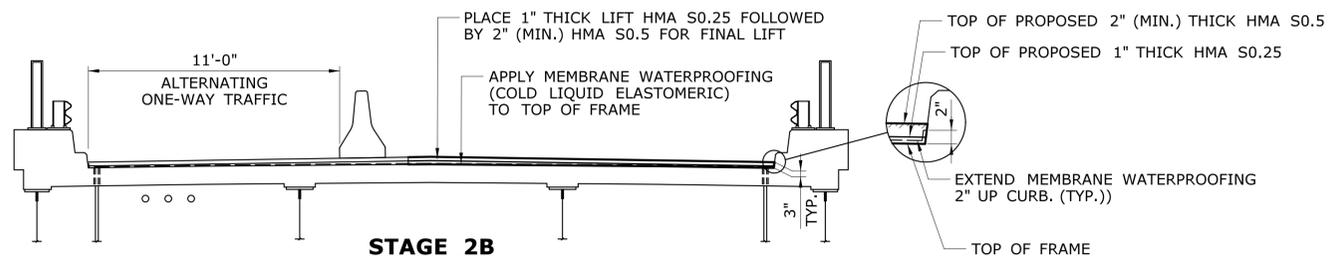
STAGE 1B

SCALE: 1/4"=1'-0"



STAGE 2A

SCALE: 1/4"=1'-0"



STAGE 2B

SCALE: 1/4"=1'-0"

RECONSTRUCTION OF CLINTON AVE: THE CONTRACTOR SHALL SURVEY THE EXISTING ROADWAY AND RE-ESTABLISH THE FINAL ROADWAY PROFILE AND CROSS SLOPE TO MATCH THE EXISTING ROADWAY. WHERE THE EXISTING CROSS SLOPE IS LESS THAN 1 1/2%, RECONSTRUCT THE CROSS SLOPE TO 1 1/2%.

NOTES:

1. LOCATIONS AND AREAS OF DETERIORATED CONCRETE AT TOP OF FRAME ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. TO BE FIELD DETERMINED BY ENGINEER.
2. DO NOT ANCHOR TEMPORARY PRECAST CONCRETE BARRIER CURB TO BRIDGE DECK.

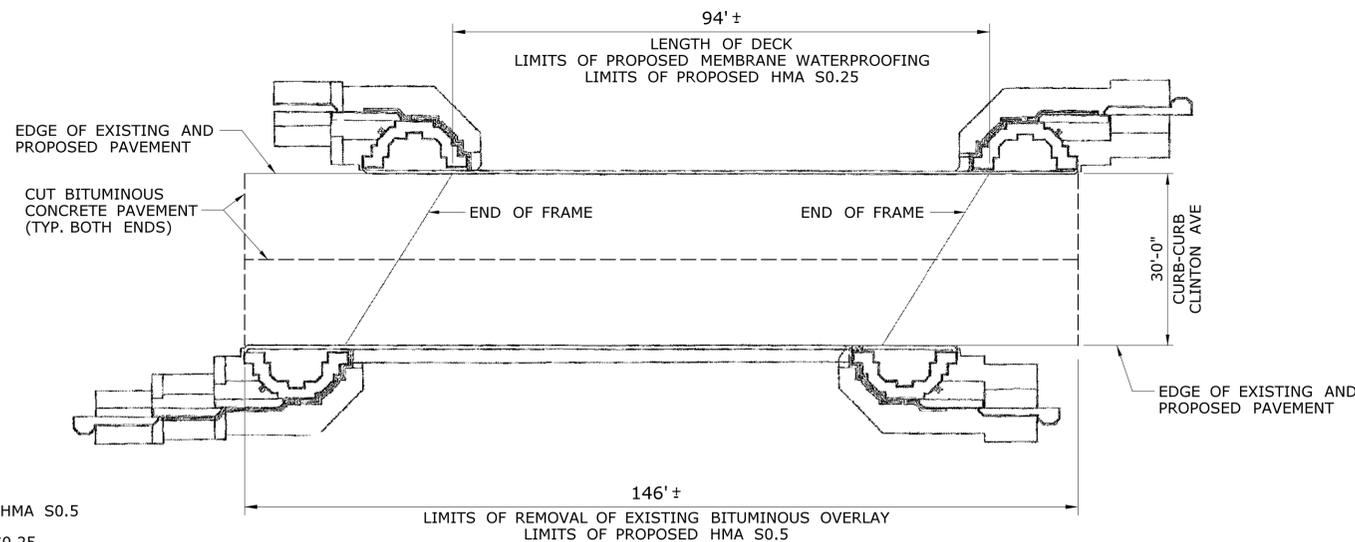
PROPOSED SEQUENCE OF STAGE CONSTRUCTION (TOPSIDE WORK)

STAGE 1

1. SURVEY EXISTING ROADWAY FOR RE-ESTABLISHMENT OF FINAL PROFILE ALONG CENTERLINE
2. INSTALL TEMPORARY PRECAST CONCRETE BARRIER CURB AND ESTABLISH MP&T.
3. REMOVE STAGE 1 BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
4. REPAIR TOP OF FRAME AS NECESSARY.
5. APPLY MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN AND 1 FOOT DOWN DECK ENDS.
6. PLACE 1" THICK LIFT HMA S0.25 OVER MEMBRANE WATERPROOFING FOLLOWED BY 2" (MIN.) HMA S0.5 FOR TOP COURSE.

STAGE 2

7. RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURB AND SHIFT TRAFFIC ONTO RECONSTRUCTED PORTION OF ROADWAY.
8. REMOVE REMAINING PORTION OF BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
9. REPAIR TOP OF FRAME AS NECESSARY.
10. APPLY MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN AND 1 FOOT DOWN DECK ENDS.
11. PLACE 1" THICK LIFT HMA S0.25 OVER MEMBRANE WATERPROOFING FOLLOWED BY 2" (MIN.) HMA S0.5 FOR TOP COURSE.



PLAN - LIMITS FOR REMOVAL OF EXISTING BITUMINOUS OVERLAY AND LIMITS FOR PROPOSED MEMBRANE WATERPROOFING

SCALE: 1/16"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **MC**
 CHECKED BY: **JRH/DSG**
 SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

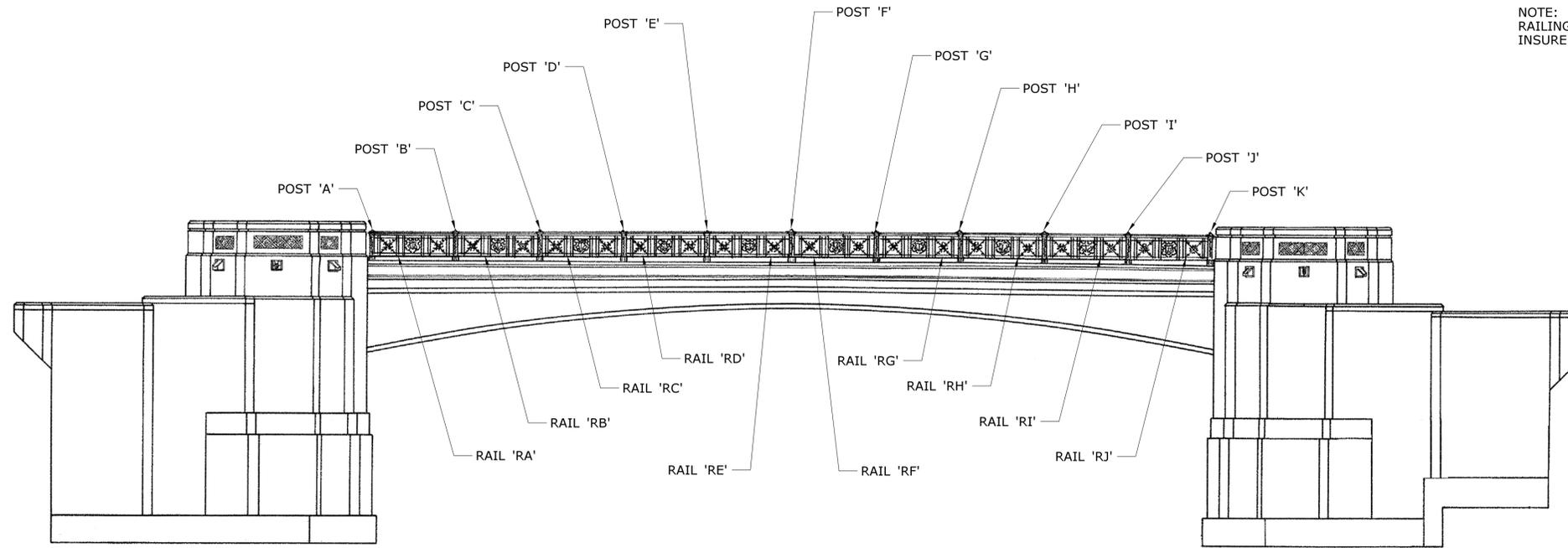
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
 APPROVED BY:
Mary E. Baker

PROJECT TITLE:
MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS

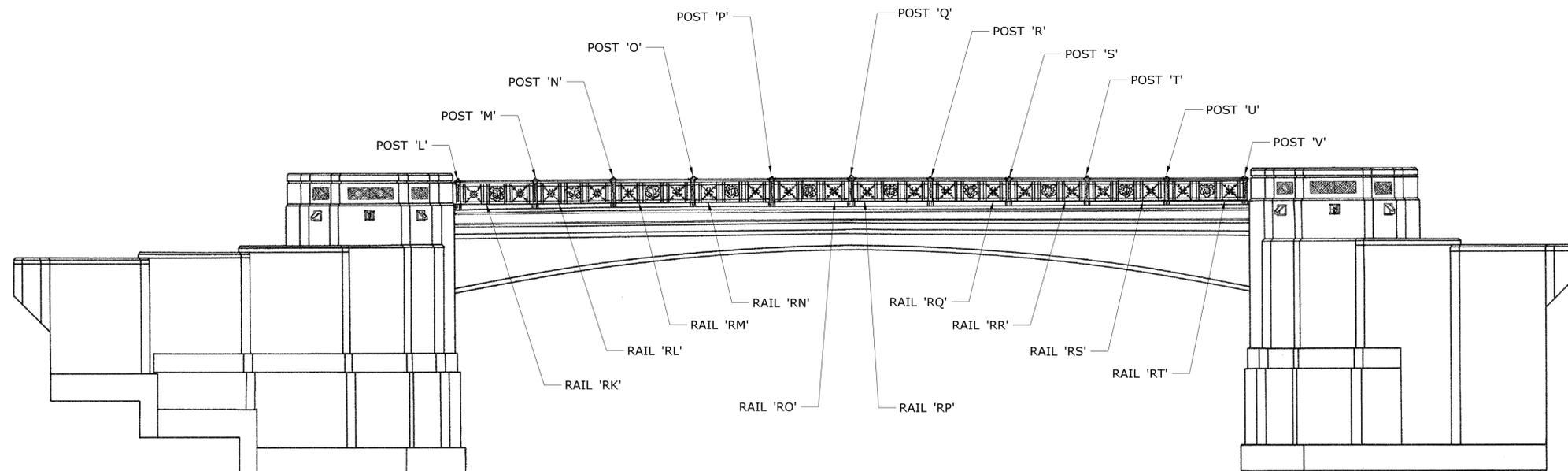
TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE:
STAGE CONSTRUCTION
BRIDGE NO. 00729
CLINTON AVE

PROJECT NO.: **158-211**
 DRAWING NO.: **S-24**
 SHEET NO.: **02.01.25**

NOTE:
RAILING PANELS AND POSTS SHALL BE LABELED AS SHOWN TO
INSURE IN-KIND INSTALLATION AFTER OFF-SITE RESTORATION.



EAST ELEVATION
N.T.S.



WEST ELEVATION
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **SPM**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED



SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Mary E. Baker

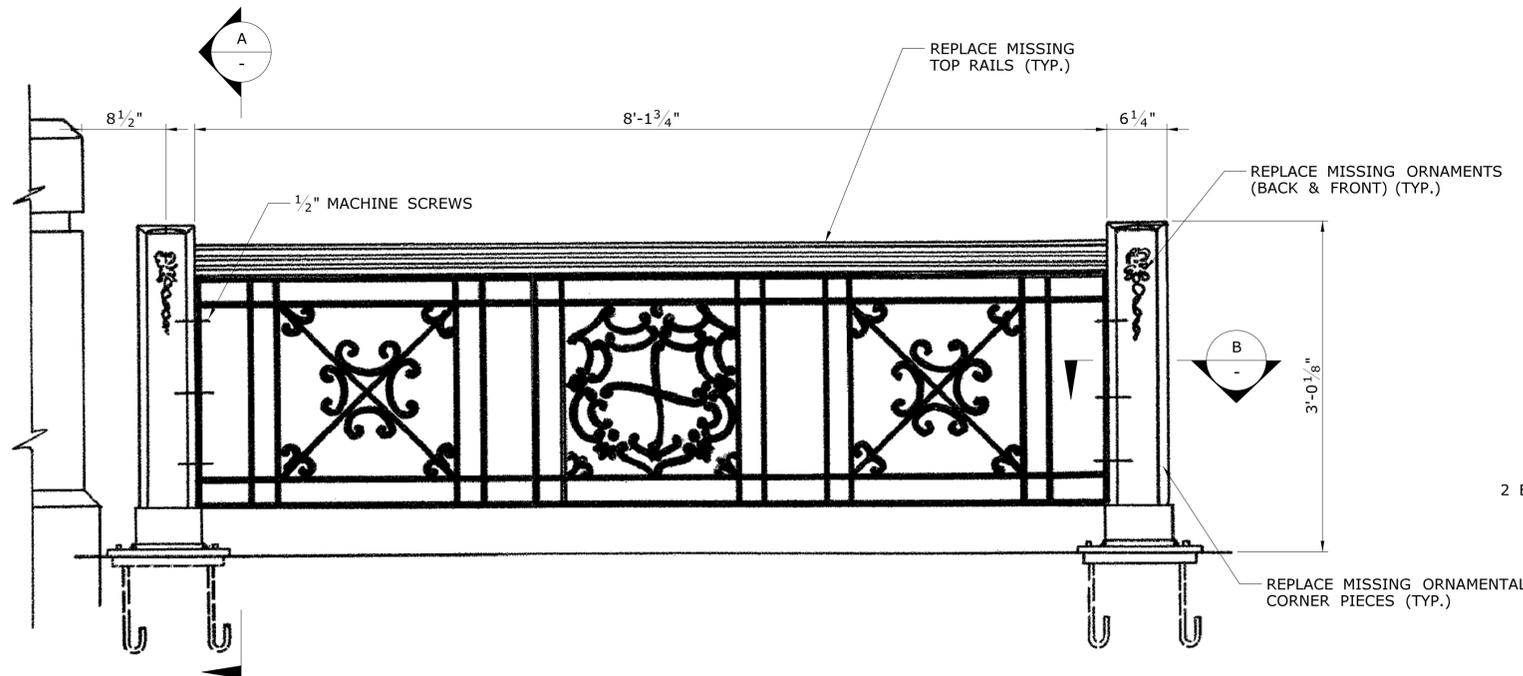
PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE:
**RAILING LOCATIONS
BRIDGE NO. 00729
CLINTON AVE**

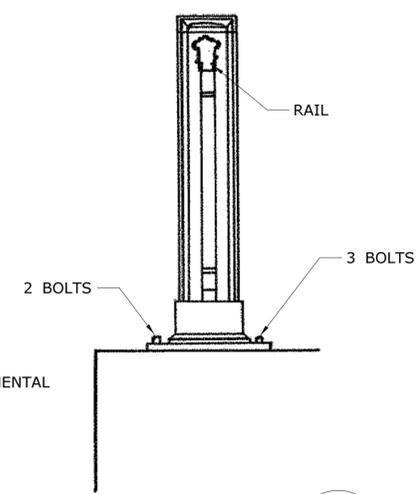
PROJECT NO. **158-211**
DRAWING NO. **S-25**
SHEET NO. **02.01.26**

Filename: ... \SB-158-211 -Brg00729 -Railing -Locations.dgn

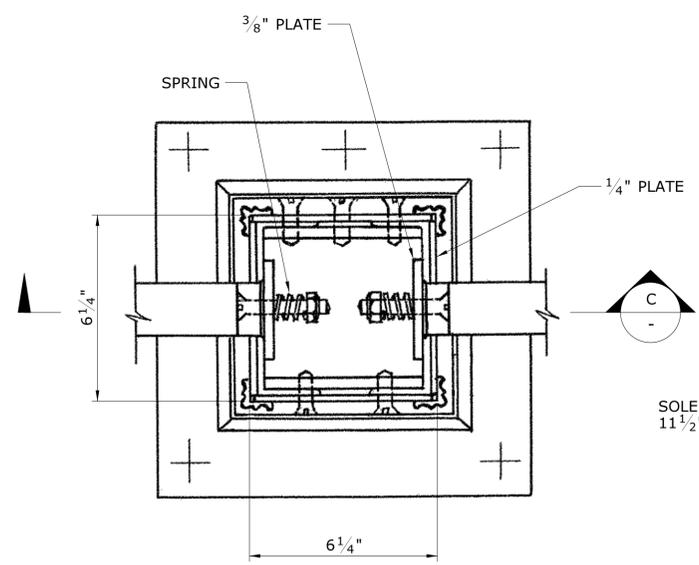
Plotted Date: 7/6/2016



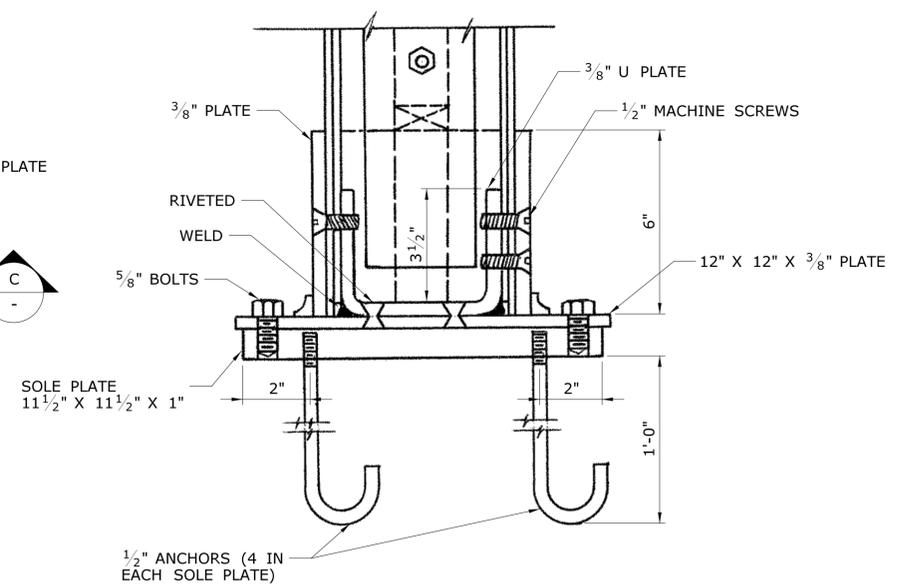
TYPICAL WROUGHT IRON RAIL PANEL
N.T.S.



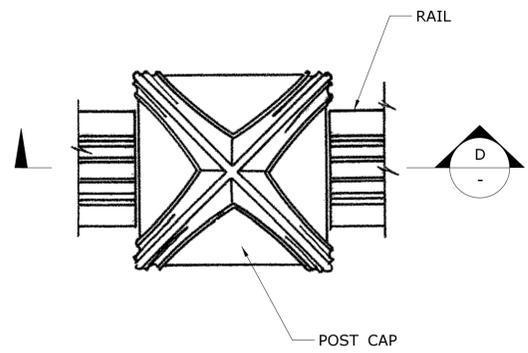
SECTION - RAIL
N.T.S.



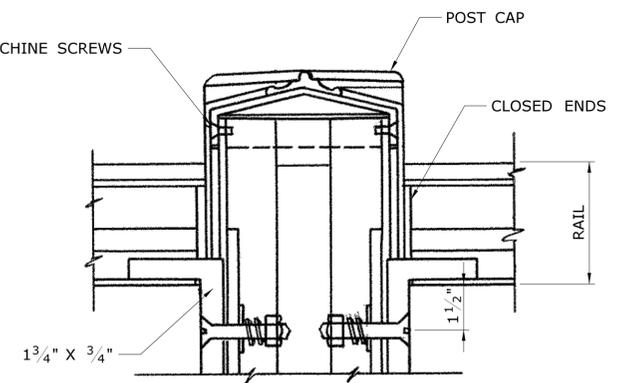
SECTION - POST
N.T.S.



SECTION - POST BASE
N.T.S.



PLAN OF POST CAP
N.T.S.



SECTION - POST CAP
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **SPM**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED

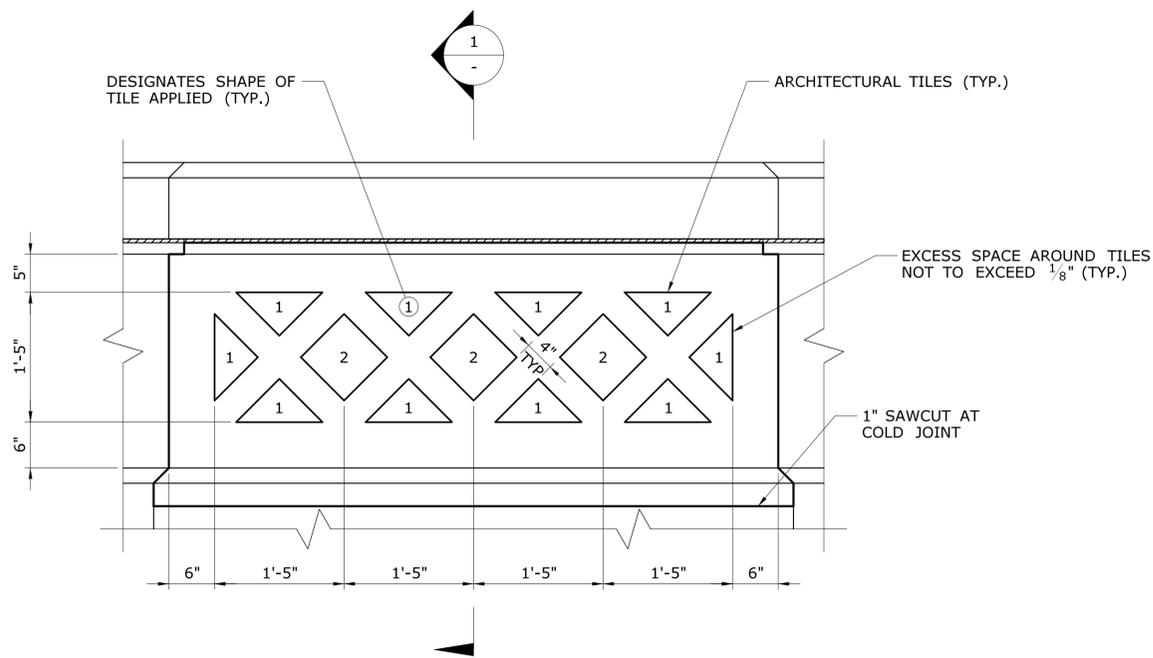
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING
APPROVED BY: *Mary E. Baker*

PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

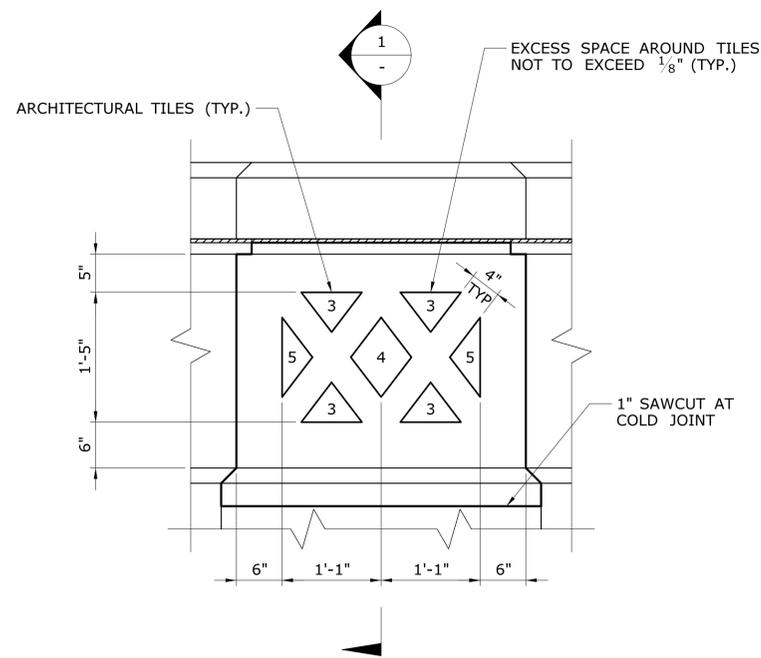
TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE:
**RAILING DETAILS
BRIDGE NO. 00729
CLINTON AVE**

PROJECT NO. **158-211**
DRAWING NO. **S-26**
SHEET NO. **02.01.27**



DETAIL - FRONT PYLON ORNAMENT

SCALE: 1" = 1'-0"

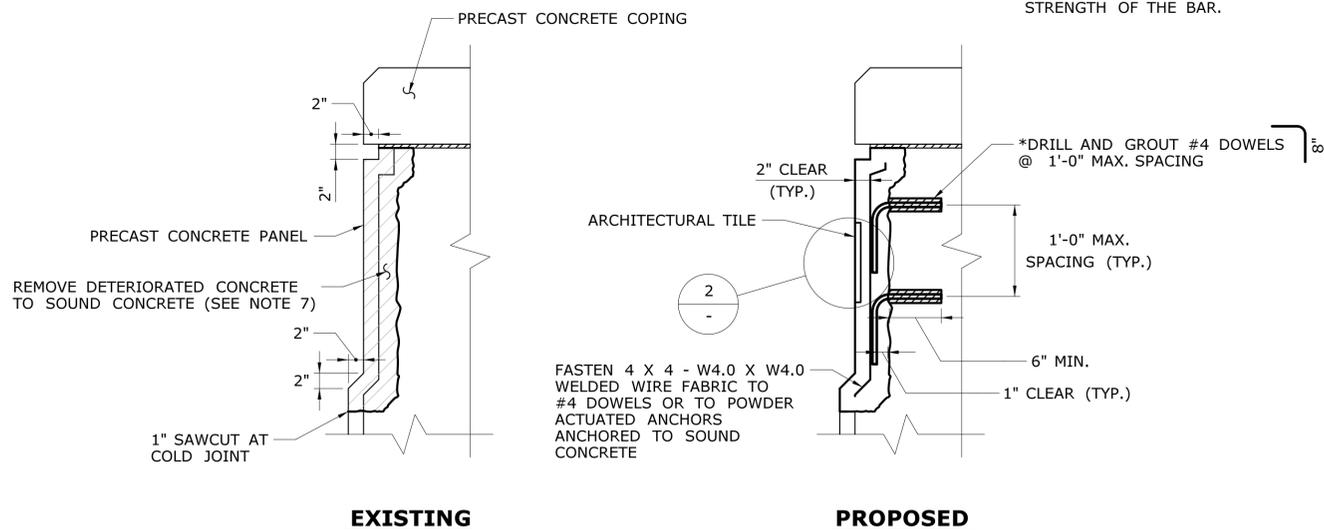


DETAIL - SIDE PYLON ORNAMENT

SCALE: 1" = 1'-0"

NOTES

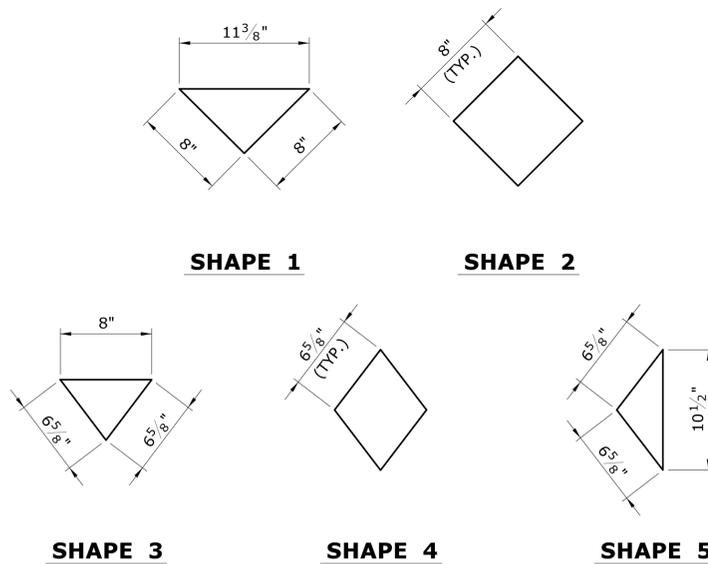
1. DEFORMED STEEL BARS SHALL BE PAID FOR UNDER THE ITEM "DEFORMED STEEL BARS".
2. WELDED WIRE FABRIC AND ANCHORS SHALL BE PAID FOR UNDER THE ITEM "DEFORMED STEEL BARS".
3. THE COST OF DRILLING AND GROUTING SHALL BE PAID FOR UNDER THE ITEM "DRILLING HOLES AND GROUTING DOWELS".
4. REMOVAL OF EXISTING CONCRETE SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING MASONRY - LIMITED METHODS".
5. RECONSTRUCTION OF PARAPET FACE SHALL BE PAID FOR UNDER THE ITEM "CLASS 'F' CONCRETE".
6. FABRICATION AND INSTALLATION OF ARCHITECTURAL TILES SHALL BE PAID FOR UNDER THE ITEM "ARCHITECTURAL TILES".
7. REMOVE SOUND CONCRETE AS REQUIRED TO 1" BEHIND PROPOSED DOWELS, TO BE INCLUDED FOR PAYMENT UNDER "REMOVAL OF EXISTING MASONRY - LIMITED METHODS".
8. RECESSED DEPTH OF TILE TO BE DETERMINED BY THE CONTRACTOR TO ENSURE FACE OF TILE IS FLUSH WITH THE FACE OF THE PARAPET.



SECTION - PYLON ORNAMENT

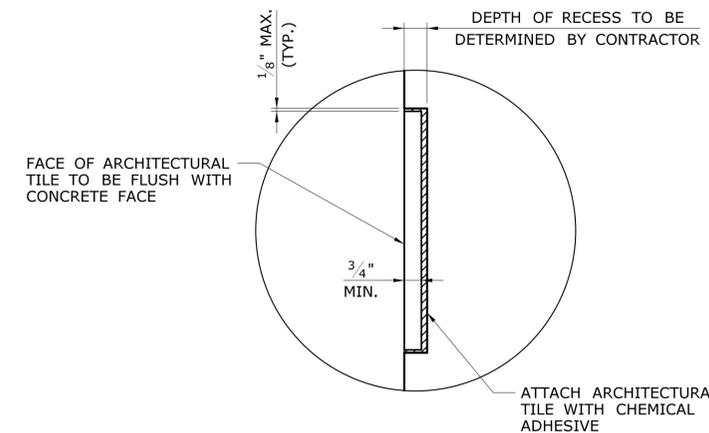
SCALE: 1" = 1'-0"

* THE DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHOR TO DEVELOP THE STRENGTH OF THE BAR.



DETAIL - ARCHITECTURAL TILE DIMENSIONS

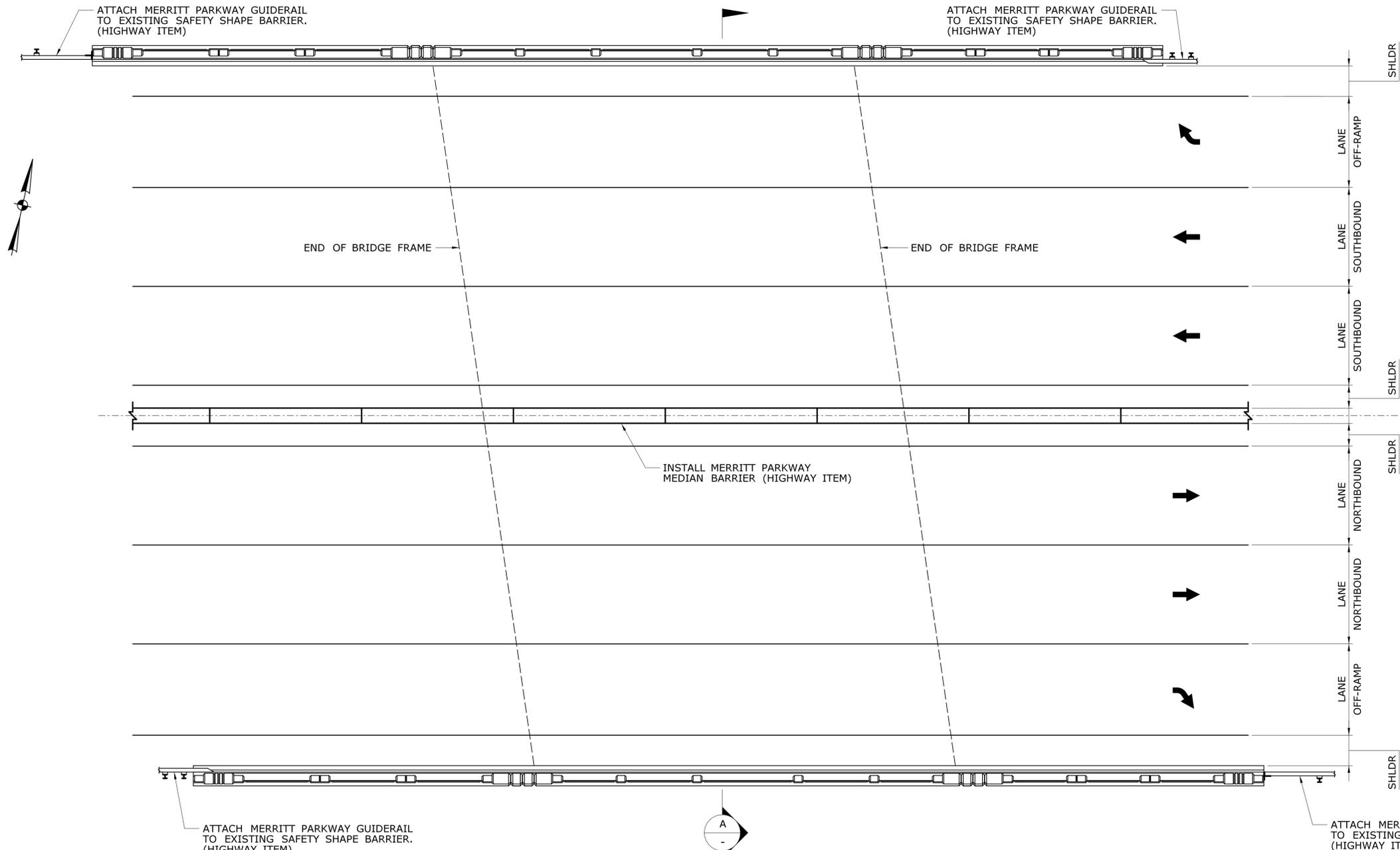
SCALE: 1 1/2" = 1'-0"



DETAIL - ARCHITECTURAL TILE

SCALE: 3" = 1'-0"

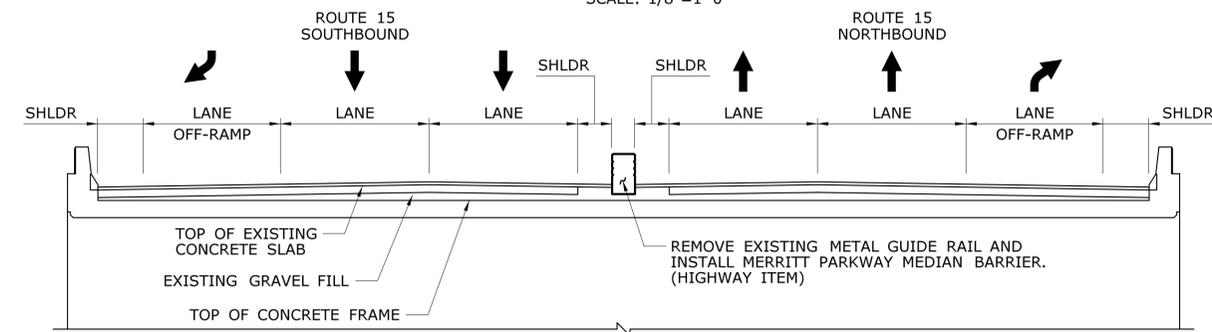
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/27/2016	DESIGNER/DRAFTER: SPM	CHECKED BY: JRH/DSG	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
					SCALE AS NOTED					DRAWING TITLE: PYLON ORNAMENTS BRIDGE NO. 00729 CLINTON AVE	DRAWING NO. S-27
											SHEET NO. 02.01.28



GENERAL DESCRIPTION OF WORK

- REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE
- CLEAN ALL CONCRETE SURFACES OF BRIDGE.
 - OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS
 - SUBMIT PROPOSED MIX DESIGN FOR "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES"
 - REMOVE EXISTING GRAFFITI, AS APPLICABLE.
 - DEVELOP MOCK-UPS, AS REQUIRED.
 - REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
 - REMOVE EXISTING METAL BEAM RAIL IN MEDIAN ON ROUTE 15 AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER.
 - ATTACH MERRITT PARKWAY GUIDERAIL TO EXISTING SAFETY SHAPE BARRIER.

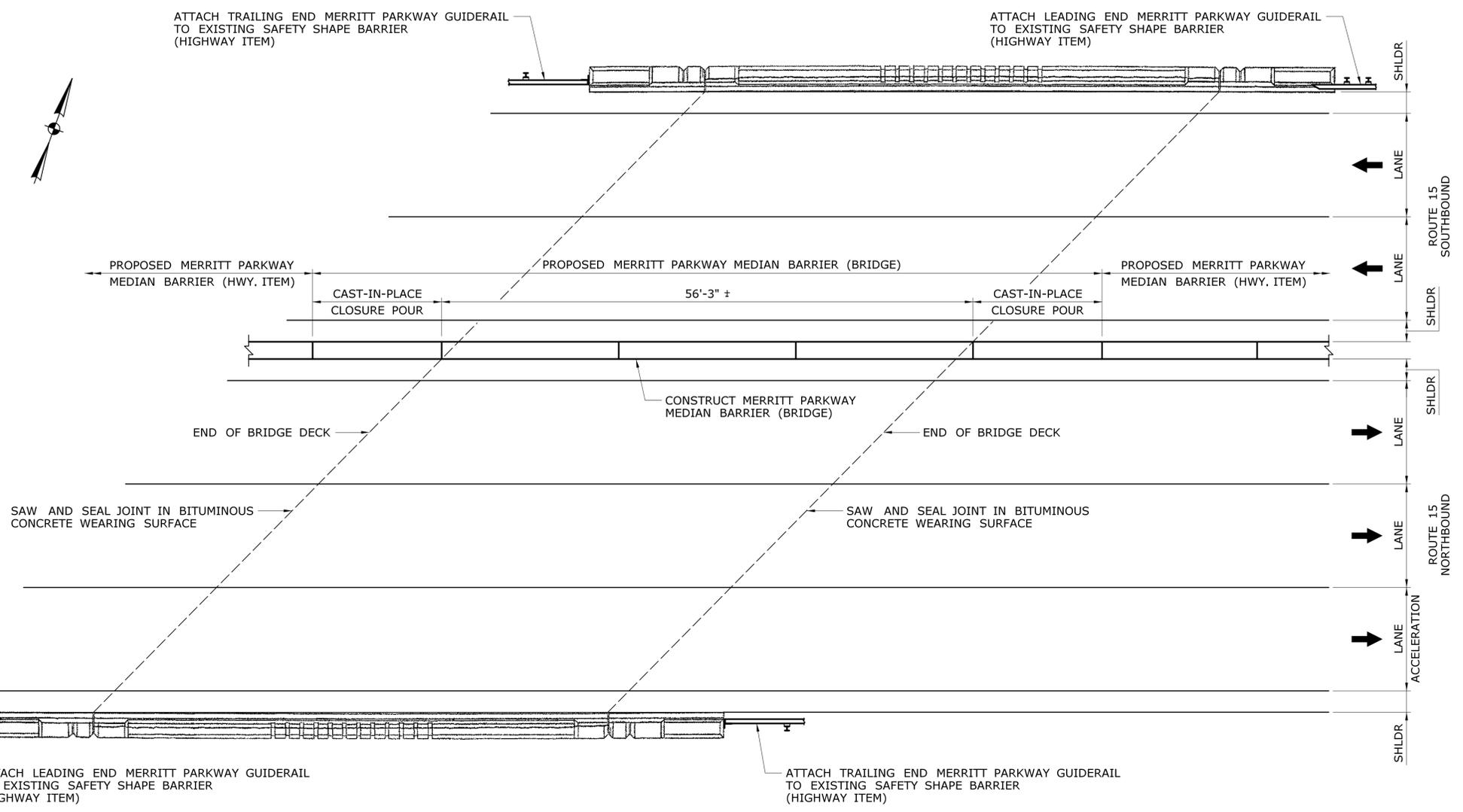
PROPOSED PLAN
BRIDGE NO. 00730 - ROUTE 15 OVER WESTON RD
 SCALE: 1/8"=1'-0"



PROPOSED SECTION
BRIDGE NO. 00730 - ROUTE 15 OVER WESTON RD
 SCALE: 1/8"=1'-0"

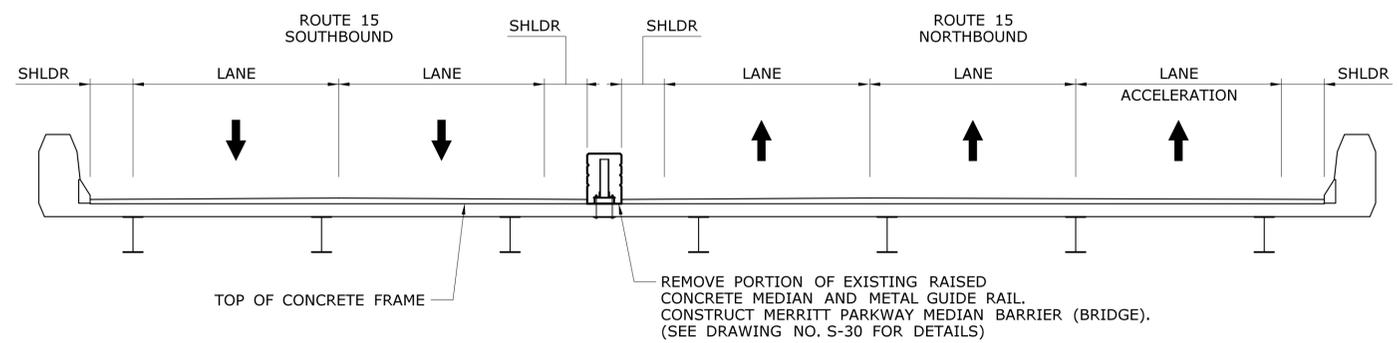
NOTE:
 FINAL LANE AND SHOULDER LAYOUTS AT BRIDGE SHALL BE PER HIGHWAY PLANS. REFER TO HIGHWAY PLANS FOR MILL AND PAVE LIMITS.

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REV. DATE - - - - - - - - - - - - - - -	REVISION DESCRIPTION - - - - - - - - - - - - - - -	SHEET NO. - - - - - - - - - - - -		Plotted Date: 7/6/2016 SCALE AS NOTED Filename: ...SB-158-211-Brg00730-General.Plan.dgn			



PROPOSED PLAN
BRIDGE NO. 00731 - ROUTE 15 OVER EASTON RD
 NOT TO SCALE

NOTE:
 FINAL LANE AND SHOULDER LAYOUTS AT BRIDGE SHALL BE PER HIGHWAY PLANS. REFER TO HIGHWAY PLANS FOR MILL AND PAVE LIMITS.



PROPOSED SECTION
BRIDGE NO. 00731 - ROUTE 15 OVER EASTON RD
 SCALE: 3/16"=1'-0"

GENERAL DESCRIPTION OF WORK

- GENERAL BRIDGE WORK**
- CLEAN ALL CONCRETE SURFACES OF BRIDGE.
 - OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS
 - SUBMIT PROPOSED MIX DESIGN FOR "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES."
 - REMOVE EXISTING GRAFFITI, AS APPLICABLE.
 - DEVELOP MOCK-UPS, AS REQUIRED.
 - REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
 - REMOVE PORTION OF EXISTING RAISED CONCRETE MEDIAN AND DOUBLE SIDED METAL BEAM RAIL ON ROUTE 15, AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER (BRIDGE).
 - REMOVE BITUMINOUS WEARING SURFACE AND MEMBRANE WATERPROOFING AT TOP OF DECK. REPAIR TOP OF CONCRETE DECK AS NECESSARY.
 - REPLACE MISSING DECK WEEP PIPE IN BAY NO. 1.
 - APPLY WATERPROOFING MEMBRANE (COLD LIQUID ELASTOMERIC) TO TOP OF DECK AND EXTEND 2" UP CURBS.
 - PLACE 1" THICK HMA S0.25 ON THE NEW MEMBRANE FOLLOWED BY 2" THICK PMA S0.5 FOR FINAL LIFT.
 - SAW CUT AND SEAL JOINTS BETWEEN DECK AND APPROACH SLAB AT BOTH ABUTMENTS.
 - ATTACH MERRITT PARKWAY GUIDERAIL TO EXISTING SAFETY SHAPE BARRIERS.
 - REMOVE WOODEN BRACKETS FROM PREVIOUS UTILITY LEFT IN PLACE WITH CLAMPS ON THE BOTTOM FLANGES OF GIRDERS G1, G4 AND G6 NEAR THE EAST SIDE

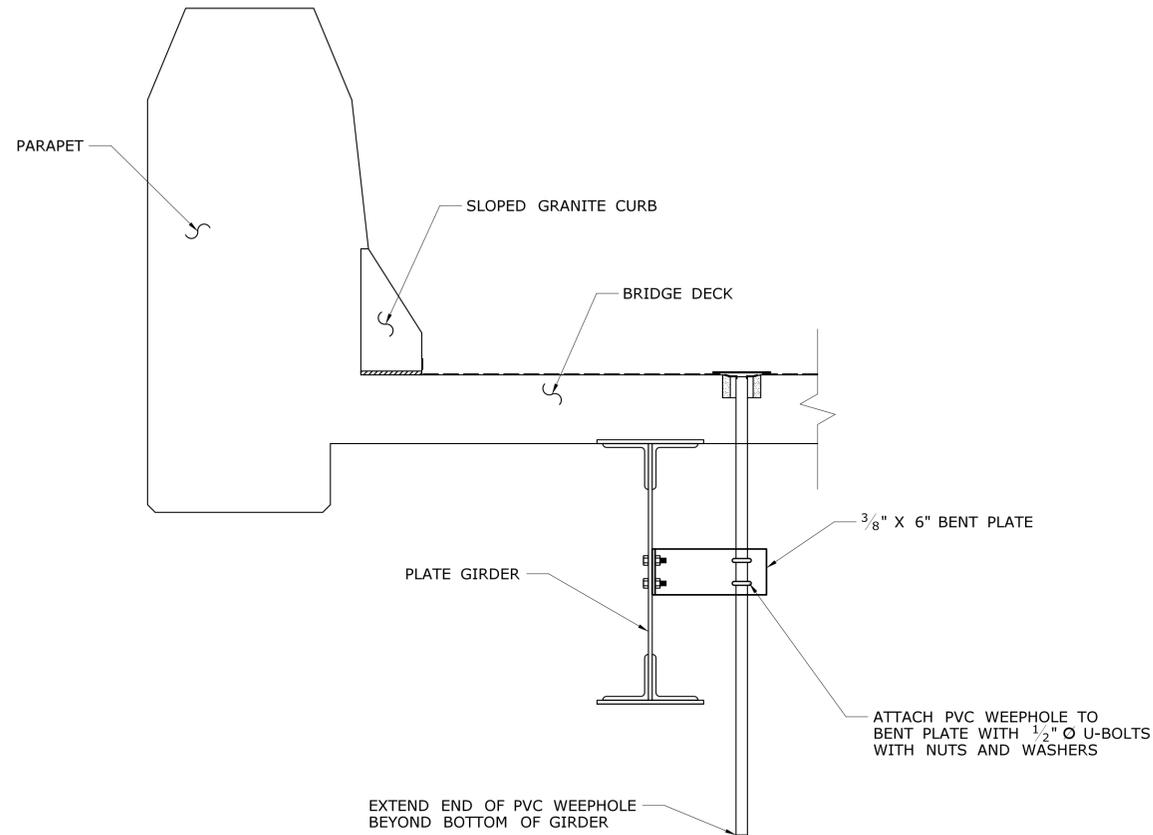
SUGGESTED SEQUENCE FOR TOP OF DECK REPAIRS

- THE FOLLOWING WORK IS TO BE DONE DURING OFF-PEAK HOURS USING LANE CLOSURES AS NECESSARY.
- REMOVE BITUMINOUS WEARING SURFACE AND MEMBRANE WATERPROOFING AT TOP OF DECK.
 - ALLOW TRAFFIC ON EXPOSED CONCRETE DECK.
 - REPAIR TOP OF CONCRETE DECK AS NECESSARY.
 - REPLACE MISSING DECK WEEP PIPE IN BAY NO. 1.
 - APPLY WATERPROOFING MEMBRANE (COLD LIQUID ELASTOMERIC) TO TOP OF DECK.
 - ALLOW TRAFFIC ON EXPOSED WATERPROOFING MEMBRANE.
 - RE-CONSTRUCT ROADWAY.
 - SAW CUT AND SEAL JOINTS BETWEEN DECK AND APPROACH SLAB AT BOTH ABUTMENTS.

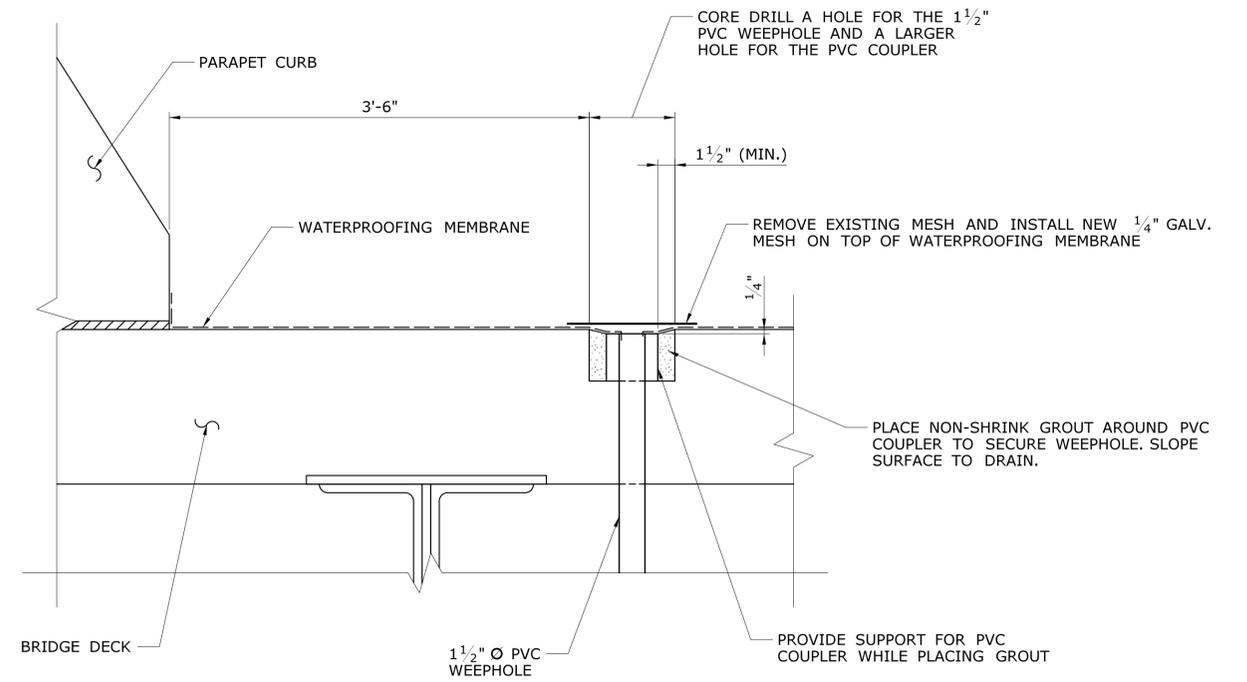
DESIGNER/DRAFTER: MC	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	DRAWING TITLE: GENERAL PLAN BRIDGE NO. 00731 EASTON RD	DRAWING NO. S-29	SHEET NO. 02.01.30
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/4/2016	SCALE AS NOTED	Filename: ...\\SB-158-211_Brg00731_General_Plan.dgn

NOTES:

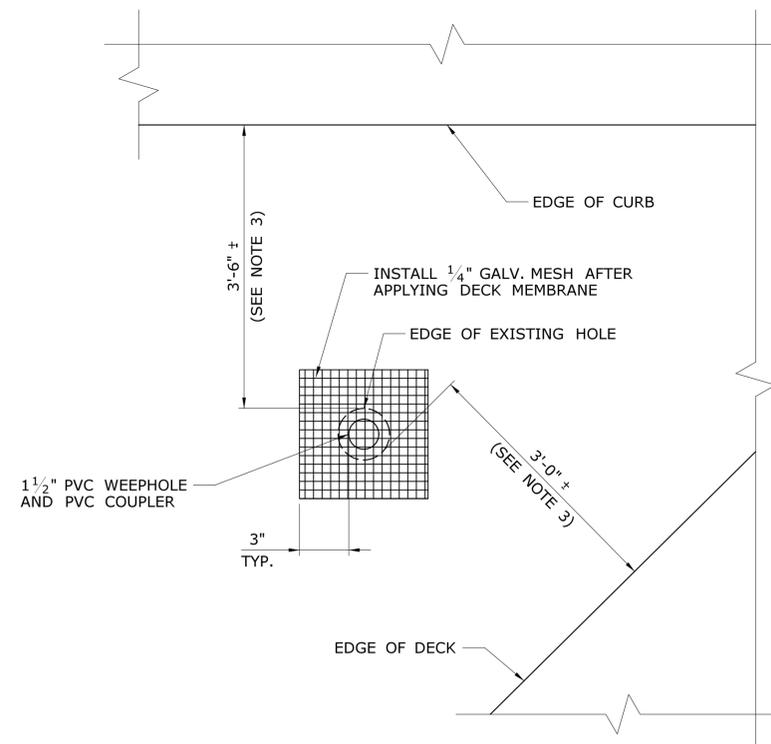
1. INSTALLATION OF THE WEEPHOLE SHALL BE PAID FOR UNDER THE ITEM "POLYVINYL CHLORIDE PIPE WEEPHOLES". INCLUDES DRILLING HOLE IN DECK, GROUTING PIPE IN PLACE, STEEL CONNECTION PLATE AND ALL CONNECTION HARDWARE.
2. THE PROPOSED WEEPHOLE IS A REPLACEMENT FOR AN EXISTING BROKEN OFF / MISSING WEEPHOLE. CONTRACTOR TO VERIFY LOCATION OF EXISTING HOLE OF MISSING WEEPHOLE PIPE.



SECTION - WEEPHOLE INSTALLATION
SCALE: 1" = 1'-0"



DETAIL - WEEPHOLE INSTALLATION
N.T.S.



MESH DETAIL
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

DESIGNER/DRAFTER: **SPM**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED

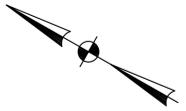

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: *Mary E. Baker*

PROJECT TITLE:
MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS

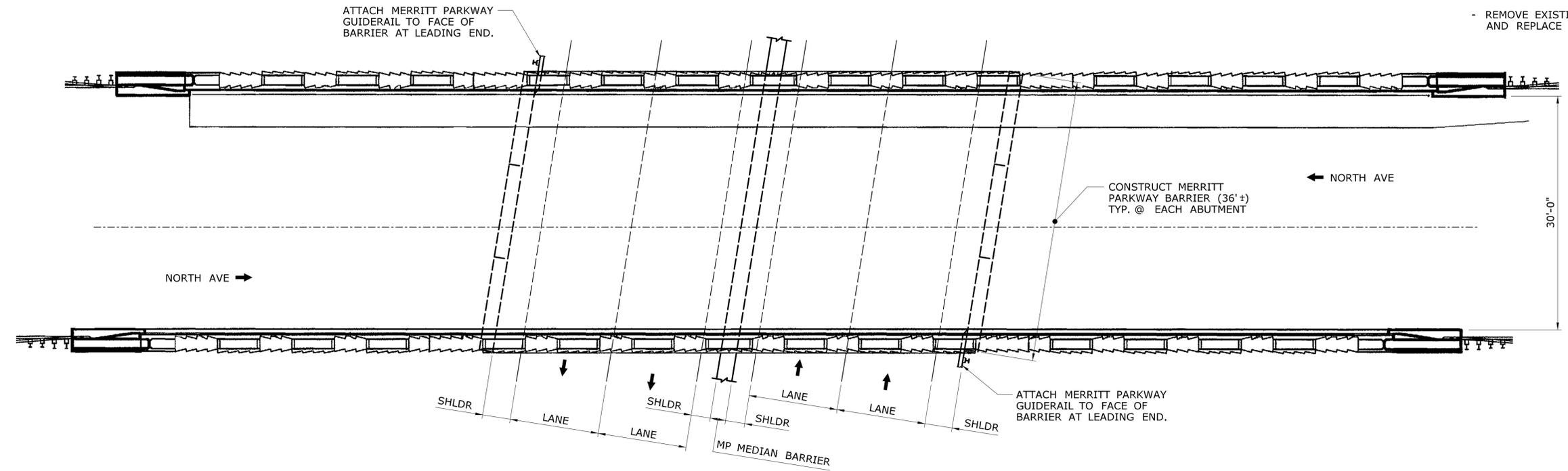
TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE: **WEEPHOLE INSTALLATION**
BRIDGE NO. 00731
EASTON RD

PROJECT NO. **158-211**
DRAWING NO. **S-31**
SHEET NO. **02.01.32**

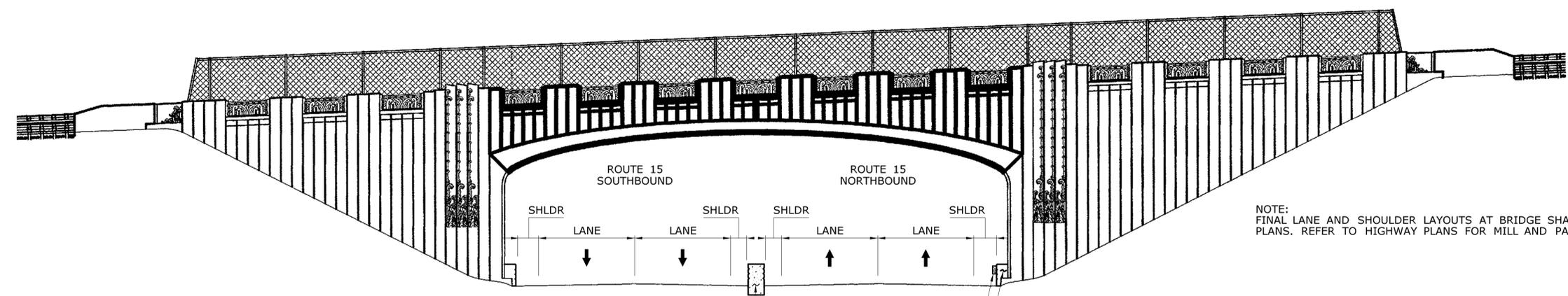


GENERAL DESCRIPTION OF WORK

- REMOVE EXISTING METAL BEAM RAIL ON ROUTE 15 AT FRONT OF ABUTMENTS AND REPLACE WITH MERRITT PARKWAY BARRIER. ATTACH MERRITT PARKWAY GUIDERAIL (LEADING END).
- REMOVE EXISTING METAL BEAM RAIL IN MEDIAN ON ROUTE 15 AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER.



**PROPOSED ELEVATION
BRIDGE NO. 00732 - ROUTE 15 UNDER NORTH AVE**
NOT TO SCALE



REMOVE EXISTING DOUBLE METAL GUIDE RAIL AND INSTALL MERRITT PARKWAY MEDIAN BARRIER (HIGHWAY ITEM)

REMOVE EXISTING METAL BEAM RAIL ALONG FRONT OF ABUTMENT AND CONSTRUCT MERRITT PARKWAY BARRIER. TYPICAL AT BOTH ABUTMENTS. SEE DRAWING NO. S-33 FOR DETAILS.

ATTACH MERRITT PARKWAY GUIDERAIL (LEADING END) TO BARRIER FACE. (TYP.) (SEE HIGHWAY PLANS)

**PROPOSED ELEVATION
BRIDGE NO. 00732 - ROUTE 15 UNDER NORTH AVE**
SCALE: 1/8"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

DESIGNER/DRAFTER: **MC**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...SB-158-211_Brg00732_General_Plan.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Mary E. Baker

PROJECT TITLE:
**MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

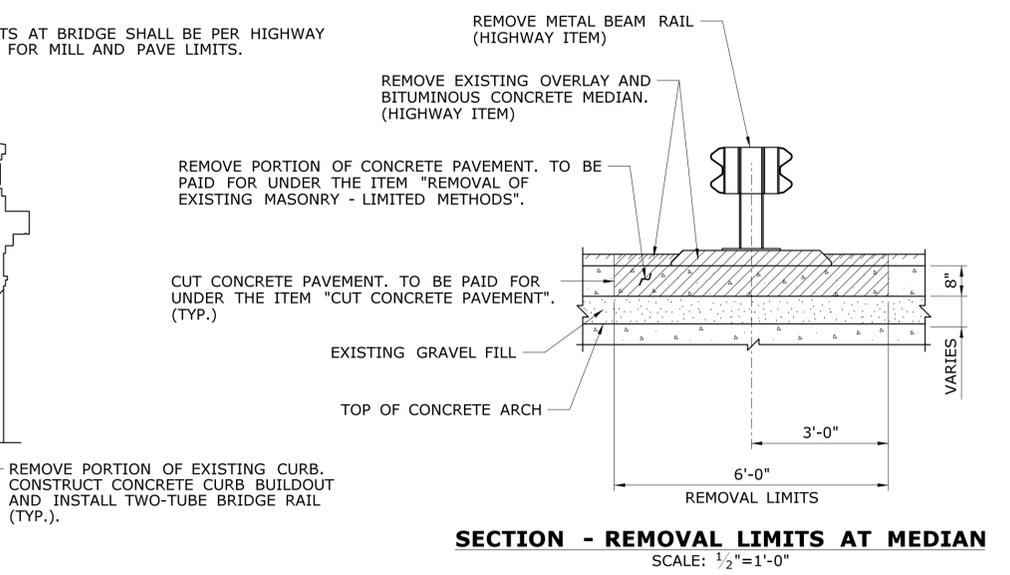
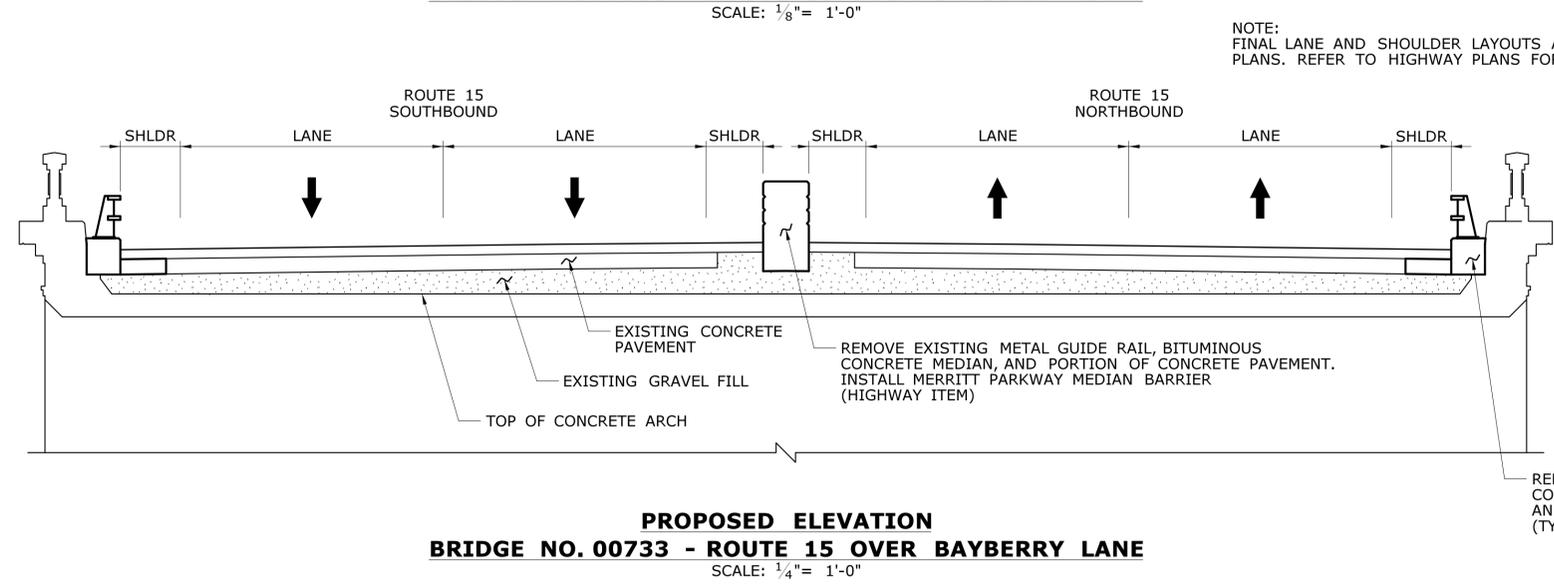
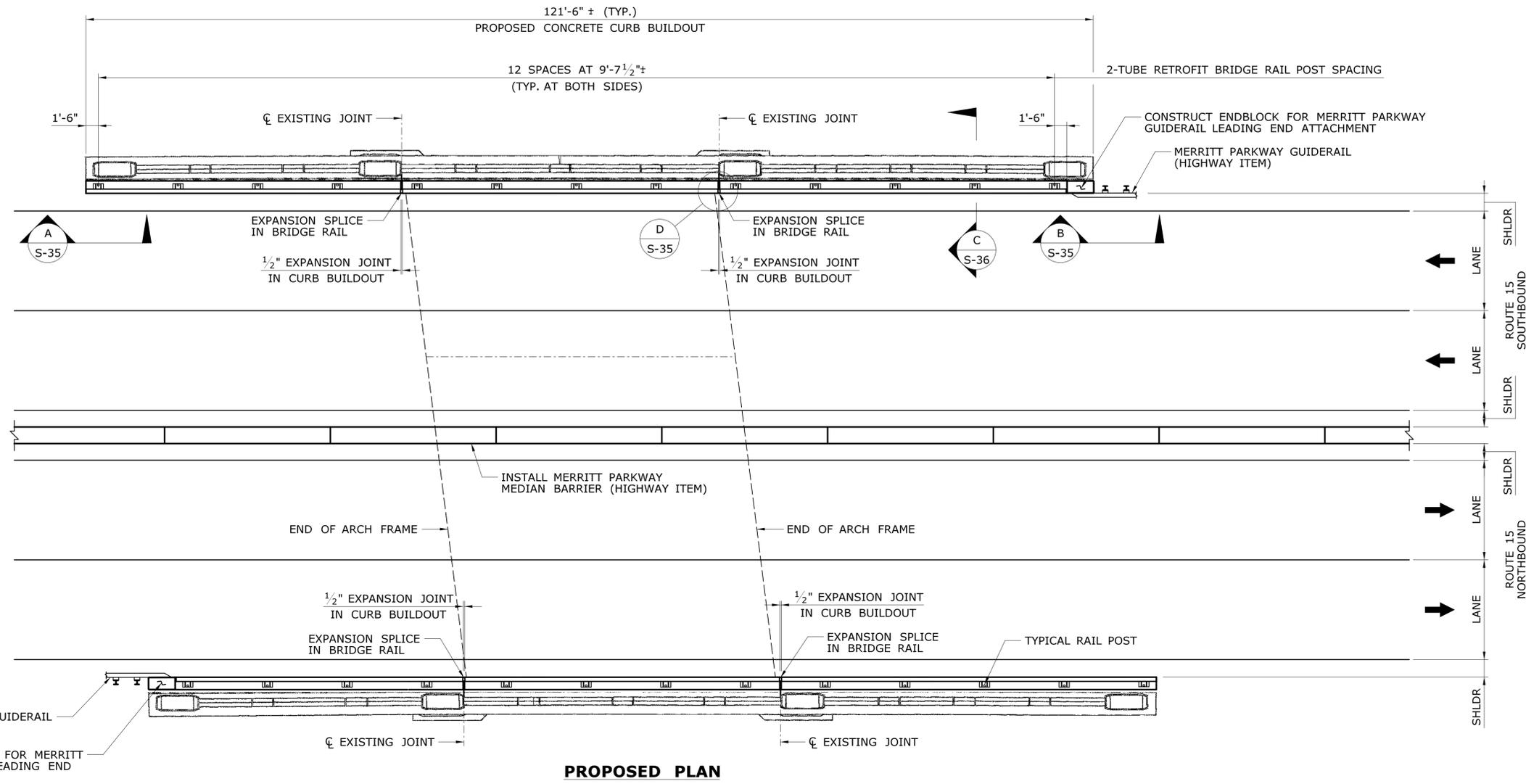
TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE:
**GENERAL PLAN
BRIDGE NO. 00732
NORTH AVE**

PROJECT NO. **158-211**
DRAWING NO. **S-32**
SHEET NO. **02.01.33**

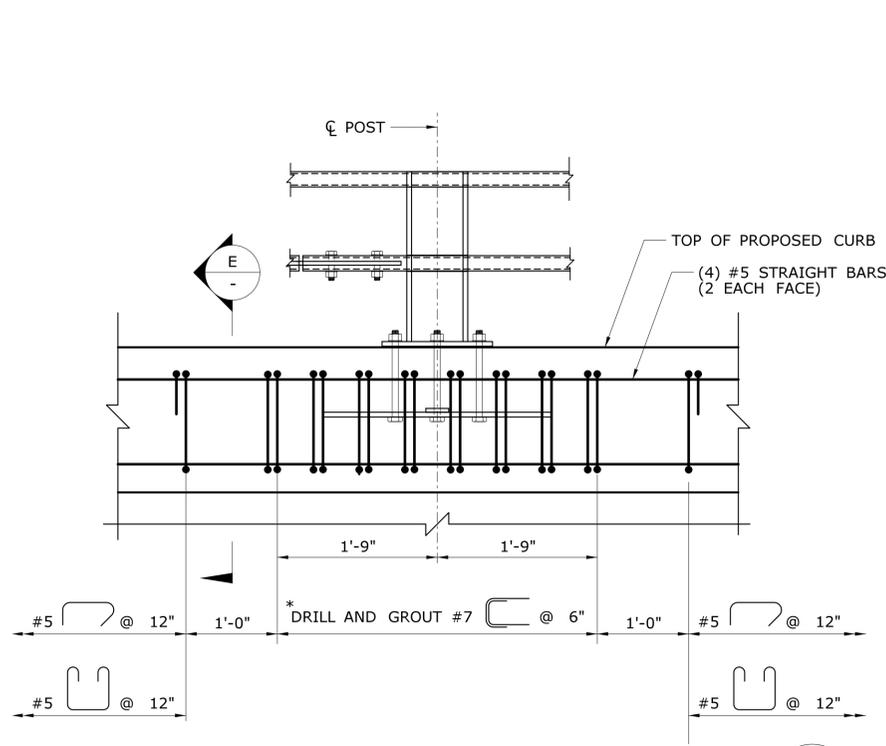
Plotted Date: 7/6/2016

GENERAL DESCRIPTION OF WORK

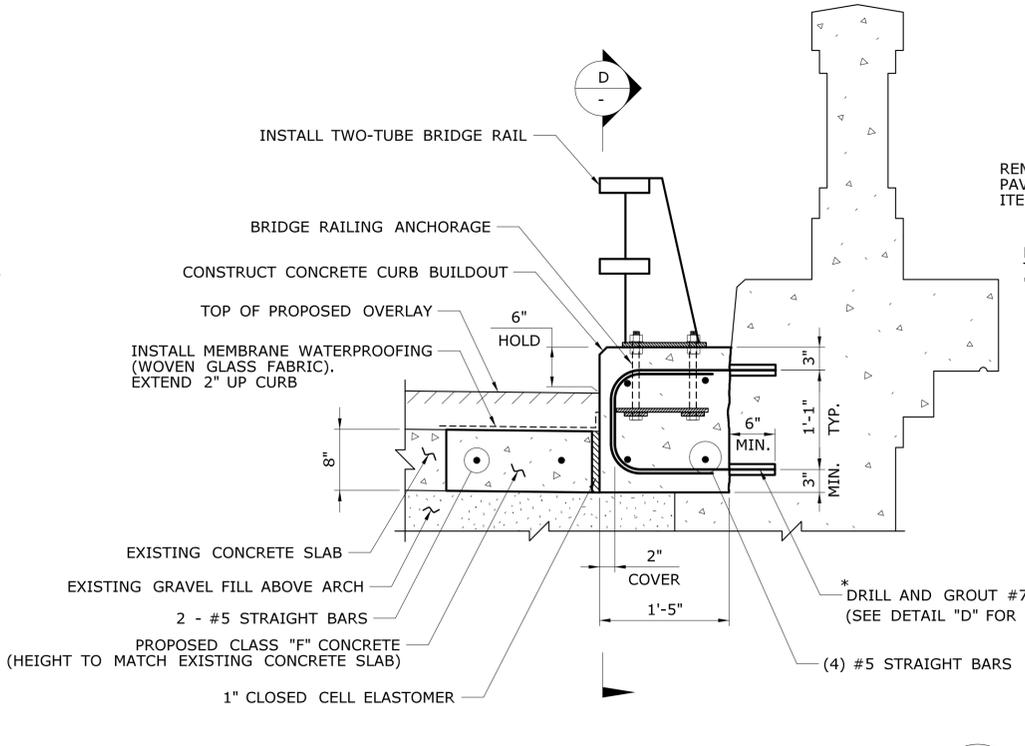
- REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE
- CLEAN ALL CONCRETE SURFACES OF BRIDGE.
 - OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS
 - SUBMIT PROPOSED MIX DESIGN FOR "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES"
 - REMOVE EXISTING GRAFFITI, AS APPLICABLE.
 - DEVELOP MOCK-UPS, AS REQUIRED.
 - REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
 - REMOVE EXISTING METAL BEAM RAIL, BITUMINOUS CONCRETE MEDIAN, AND PORTION OF CONCRETE PAVEMENT ON ROUTE 15 AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER.
 - CONSTRUCT CONCRETE CURB BUILDOUT.
 - CONSTRUCT CONCRETE LEADING END BLOCKS.
 - INSTALL TWO-TUBE RETROFIT BRIDGE RAIL.
 - ATTACH MERRITT PARKWAY LEADING END GUIDERAIL TO PROPOSED END BLOCKS.
 - ATTACH MERRITT PARKWAY TRAILING END GUIDERAIL TO EXISTING PARAPETS.



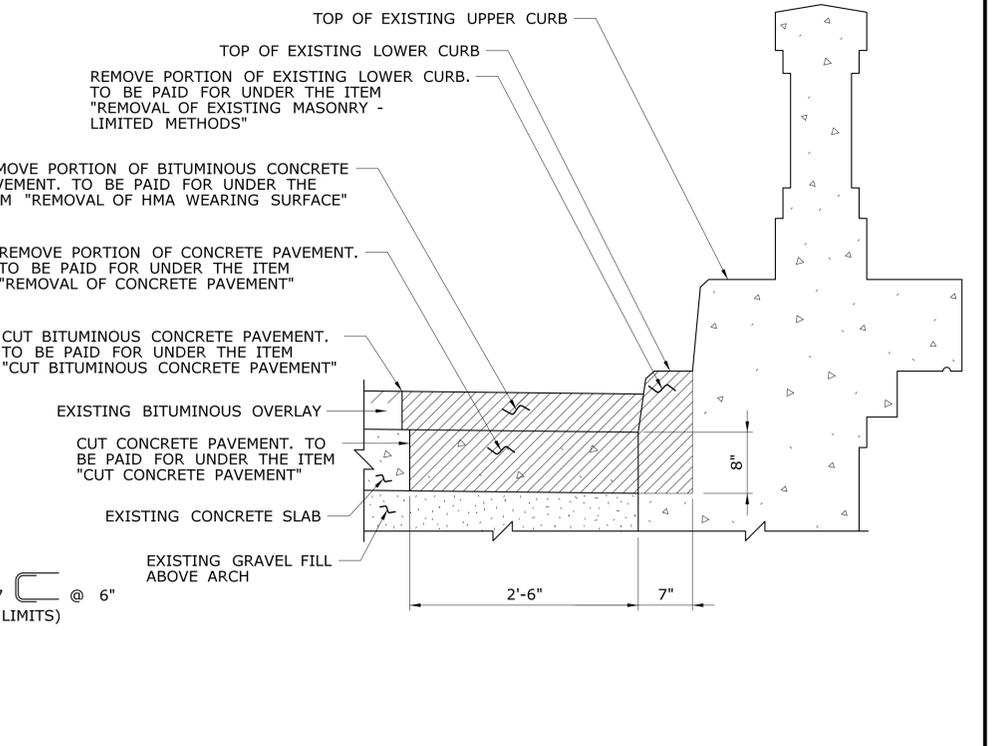
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: GENERAL PLAN BRIDGE NO. 00733 BAYBERRY LANE	PROJECT NO. 158-211 DRAWING NO. S-34 SHEET NO. 02.01.35
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 8/3/2016	SCALE AS NOTED		Filename: ...SB-158-211_Brg00733_General_Plan.dgn			



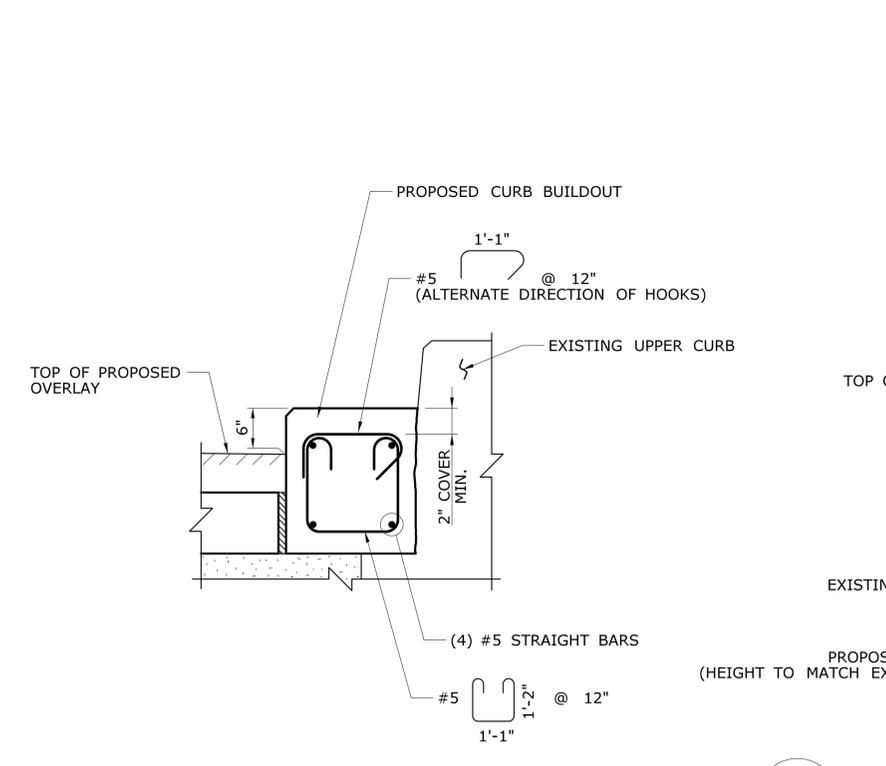
SECTION - PROPOSED CURB BUILDOUT REINFORCEMENT
SCALE: 1"= 1'-0"
D



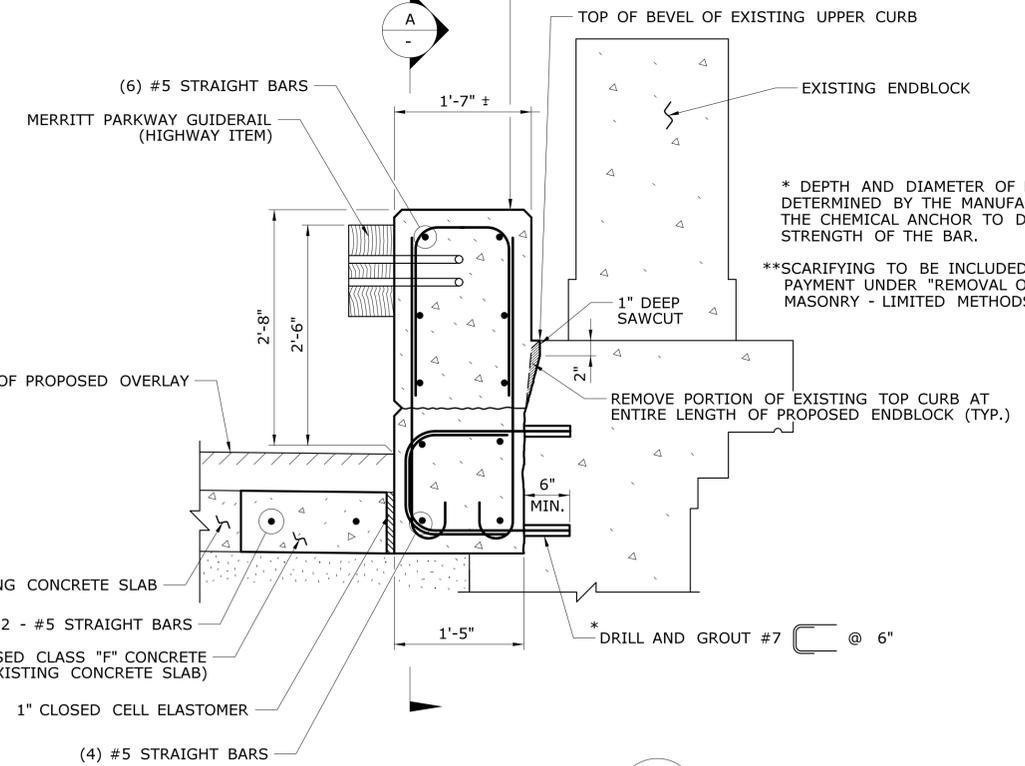
SECTION - TYPICAL CURB BUILDOUT NEAR POST
SCALE: 1"= 1'-0"
C
S-34



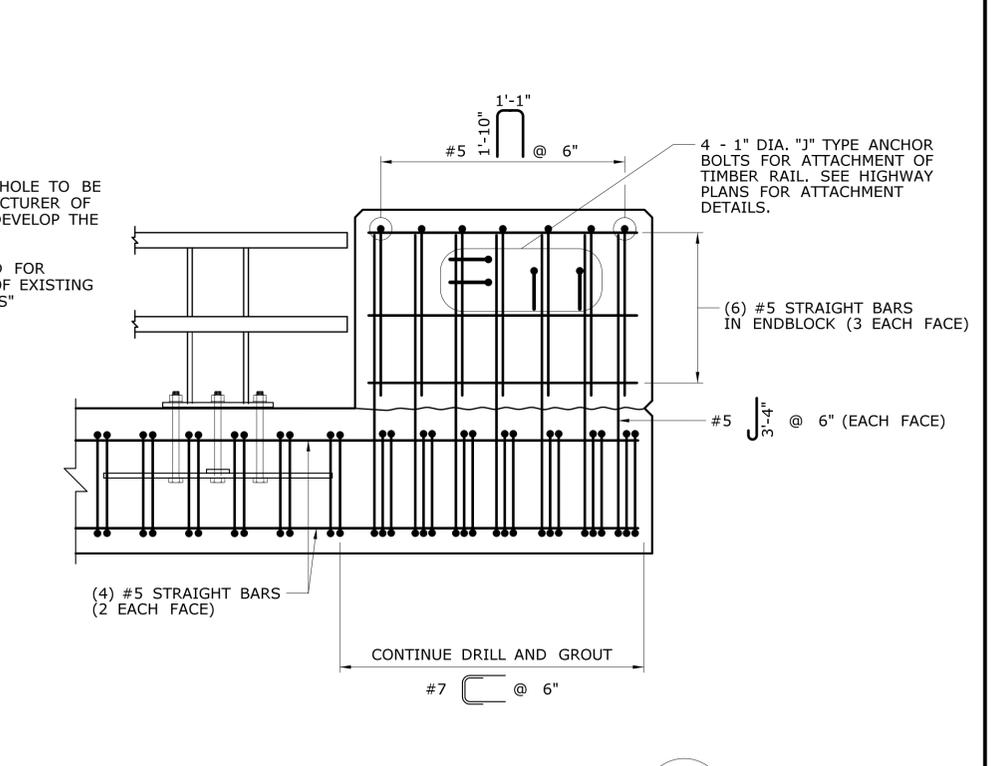
SECTION - TYPICAL EXISTING PARAPET WITH REMOVAL LIMITS
SCALE: 1"= 1'-0"



SECTION - TYPICAL REINFORCEMENT BETWEEN POSTS
SCALE: 1"= 1'-0"
E



SECTION - ENDBLOCK
SCALE: 1"= 1'-0"
B
S-35

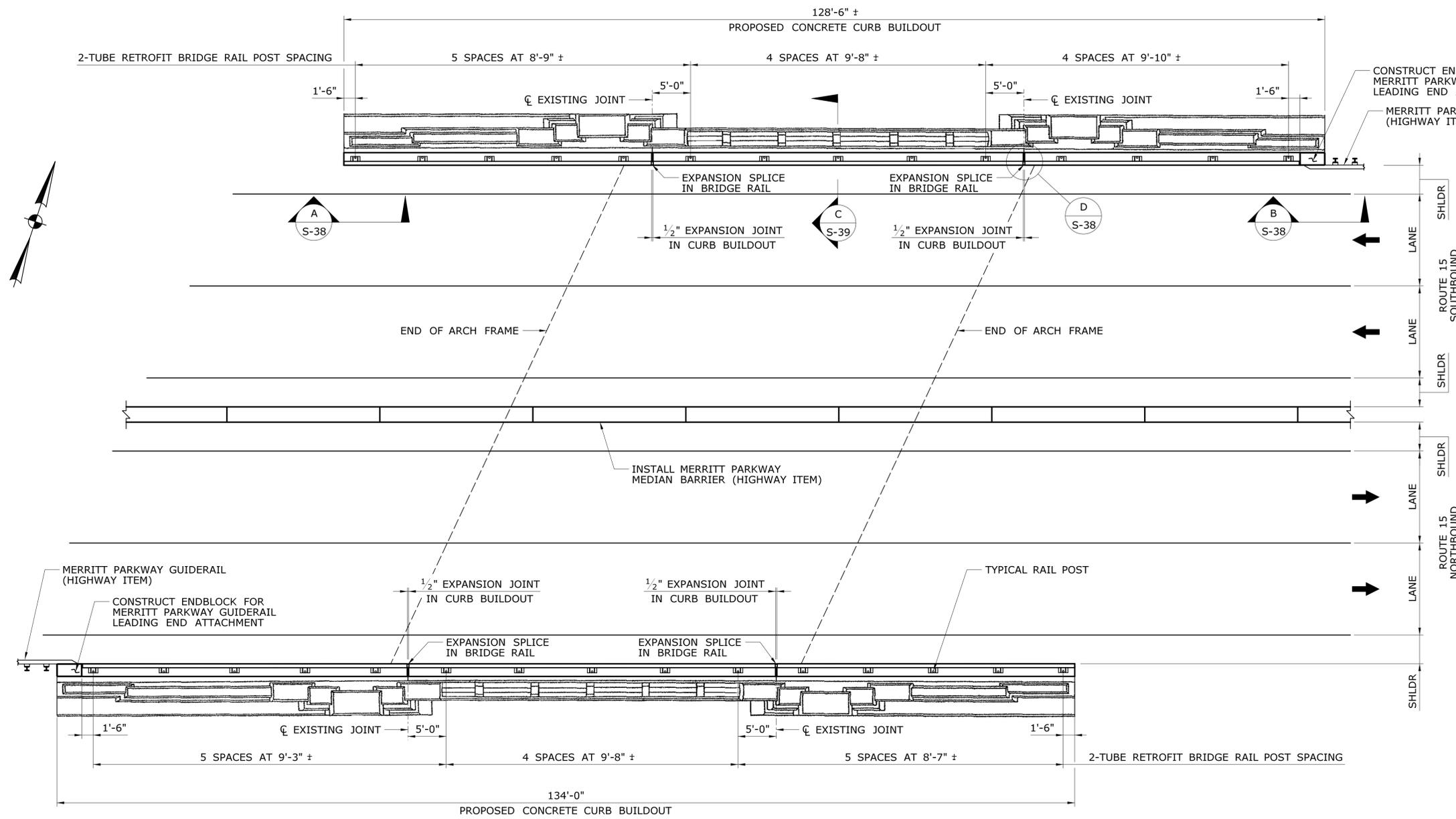


ELEVATION - ENDBLOCK REINFORCEMENT
SCALE: 1"= 1'-0"
A

DESIGNER/DRAFTER: MC	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	DRAWING TITLE: CURB BUILDOUT DETAILS 2	DRAWING NO. S-36	SHEET NO. 02.01.37
SCALE AS NOTED	Plotted Date: 8/1/2016	Filename: ...\\SB-158-211_Brg00733_Curb_Buildout_Details_2.dgn			

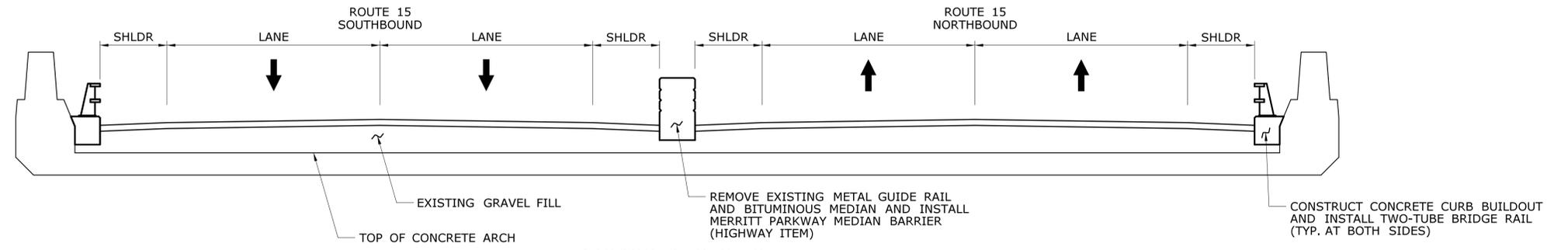
GENERAL DESCRIPTION OF WORK

- REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE
- CLEAN ALL CONCRETE SURFACES OF BRIDGE.
- OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS
- SUBMIT PROPOSED MIX DESIGN FOR "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES"
- REMOVE/COAT EXISTING GRAFFITI, AS APPLICABLE.
- DEVELOP MOCK-UPS, AS REQUIRED.
- REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
- REMOVE EXISTING MEDIAN METAL BEAM RAIL AND RAISED BITUMINOUS MEDIAN ON ROUTE 15 AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER.
- CONSTRUCT CONCRETE CURB BUILDOUT.
- CONSTRUCT CONCRETE LEADING END BLOCKS.
- INSTALL TWO-TUBE RETROFIT BRIDGE RAIL.
- ATTACH MERRITT PARKWAY LEADING END GUIDERAIL TO PROPOSED END BLOCKS.
- INSTALL MERRITT PARKWAY TRAILING END GUIDERAIL



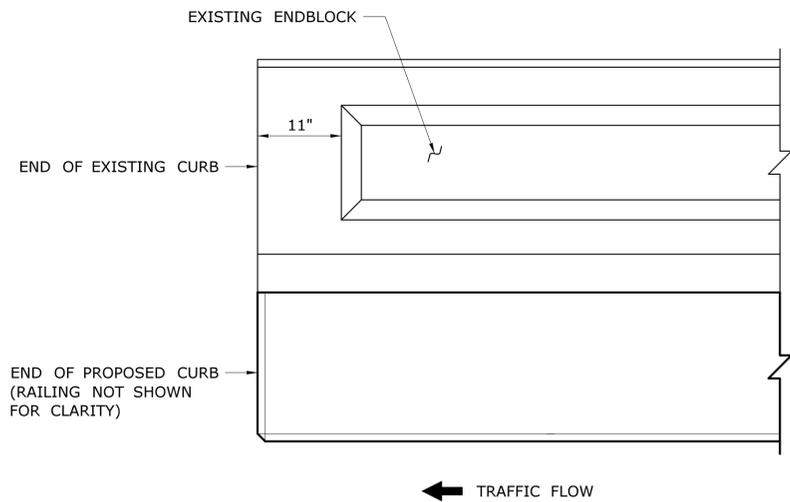
PROPOSED PLAN
BRIDGE NO. 00734 - ROUTE 15 OVER CROSS HIGHWAY
 N.T.S.

NOTE:
 FINAL LANE AND SHOULDER LAYOUTS AT BRIDGE SHALL BE PER HIGHWAY PLANS. REFER TO HIGHWAY PLANS FOR MILL AND PAVE LIMITS.

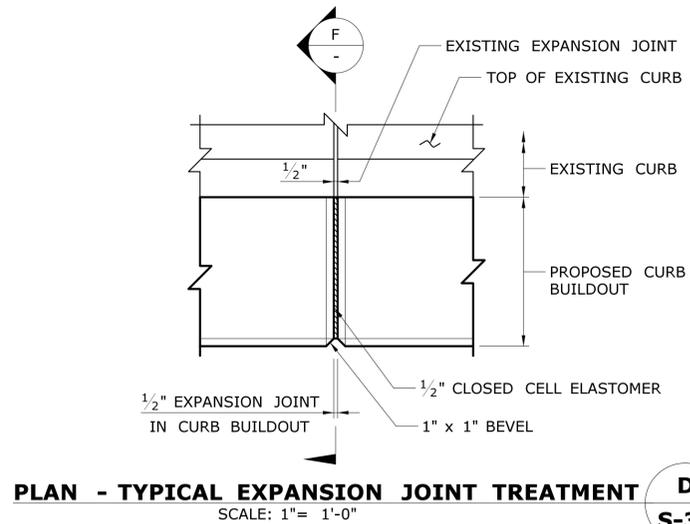


PROPOSED SECTION
BRIDGE NO. 00734 - ROUTE 15 OVER CROSS HIGHWAY
 SCALE: 1/4"=1'0"

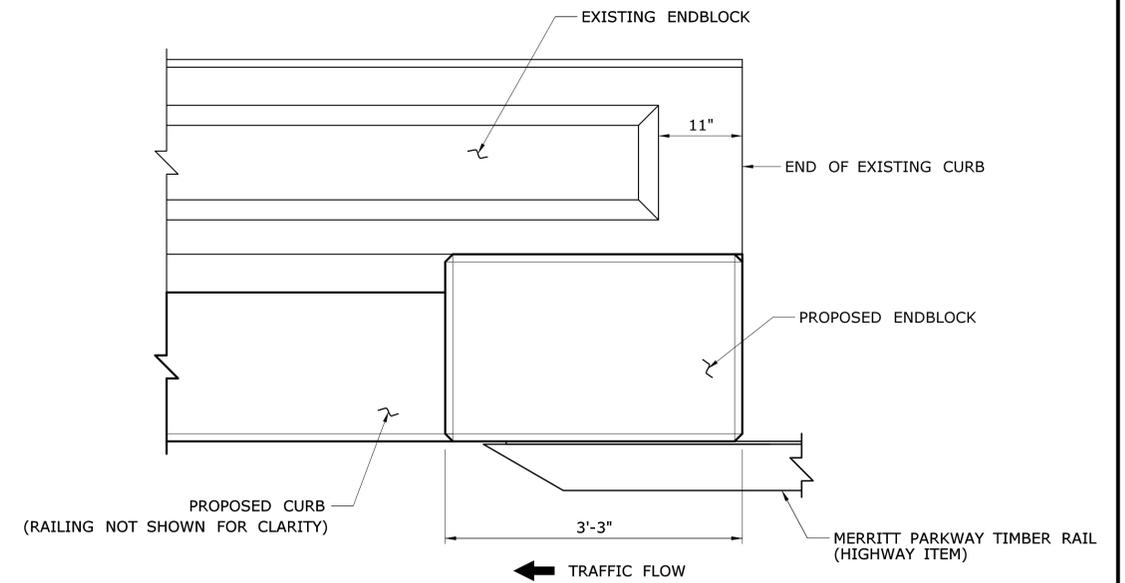
DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: GENERAL PLAN BRIDGE NO. 00734 CROSS HIGHWAY	PROJECT NO.: 158-211 DRAWING NO.: S-37 SHEET NO.: 02.01.38
REV. DATE REVISION DESCRIPTION SHEET NO.	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.					



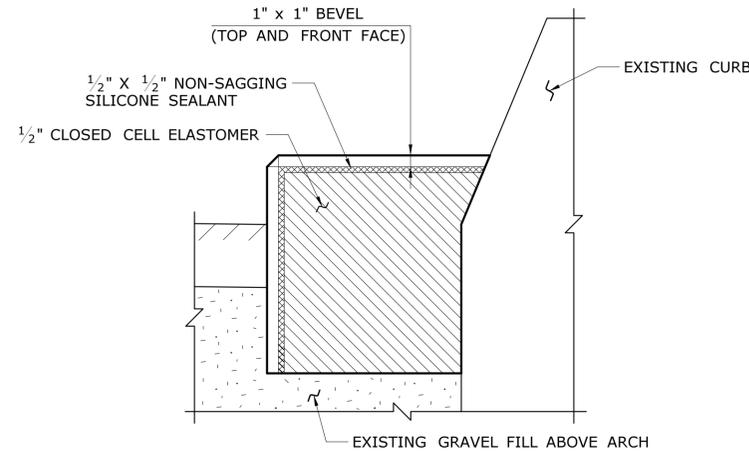
PLAN - TYPICAL CURB BUILDOUT AT TRAILING END
SCALE: 1"= 1'-0"



PLAN - TYPICAL EXPANSION JOINT TREATMENT
SCALE: 1"= 1'-0"

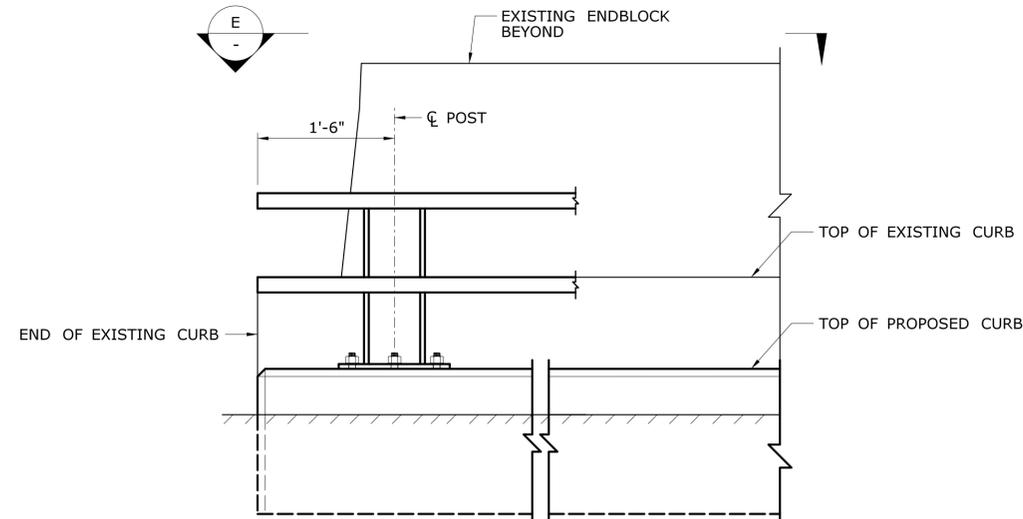


PLAN - TYPICAL LEADING ENDBLOCK
SCALE: 1"= 1'-0"

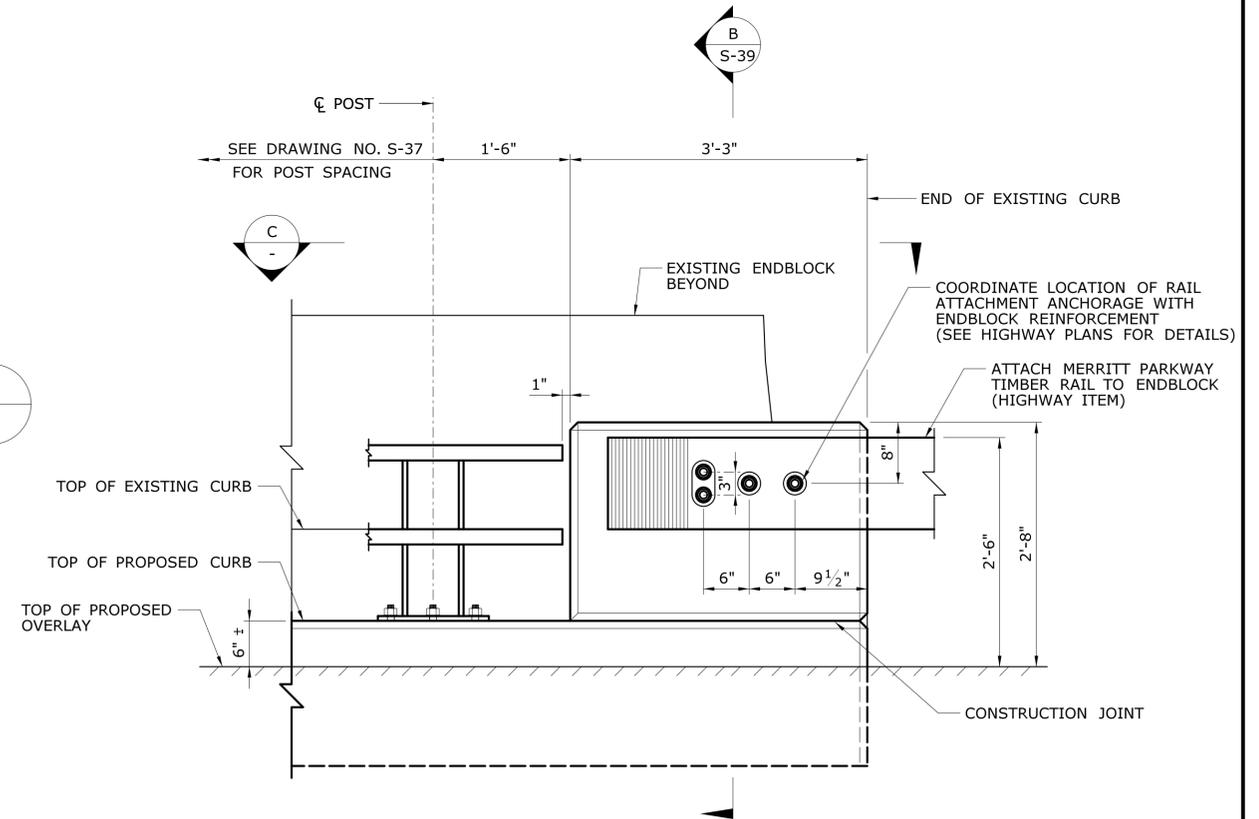


SECTION - TYPICAL EXPANSION JOINT
SCALE: 1 1/2"= 1'-0"

NOTE: CONSTRUCT ENDBLOCKS AND CURB BUILDOUTS WITH CLASS 'F' CONCRETE, TO BE PAID FOR UNDER THE ITEM "CLASS 'F' CONCRETE".



ELEVATION - TYPICAL CURB BUILDOUT AT TRAILING END
SCALE: 1"= 1'-0"



ELEVATION - TYPICAL LEADING ENDBLOCK
SCALE: 1"= 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **MC**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED

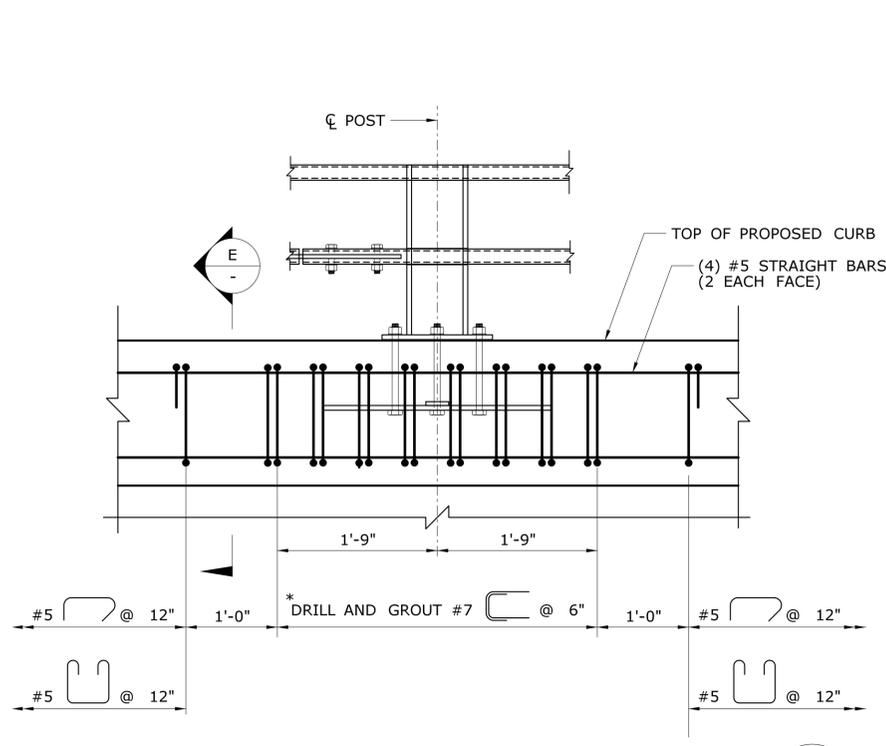
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING
APPROVED BY: *Mary E. Baker*

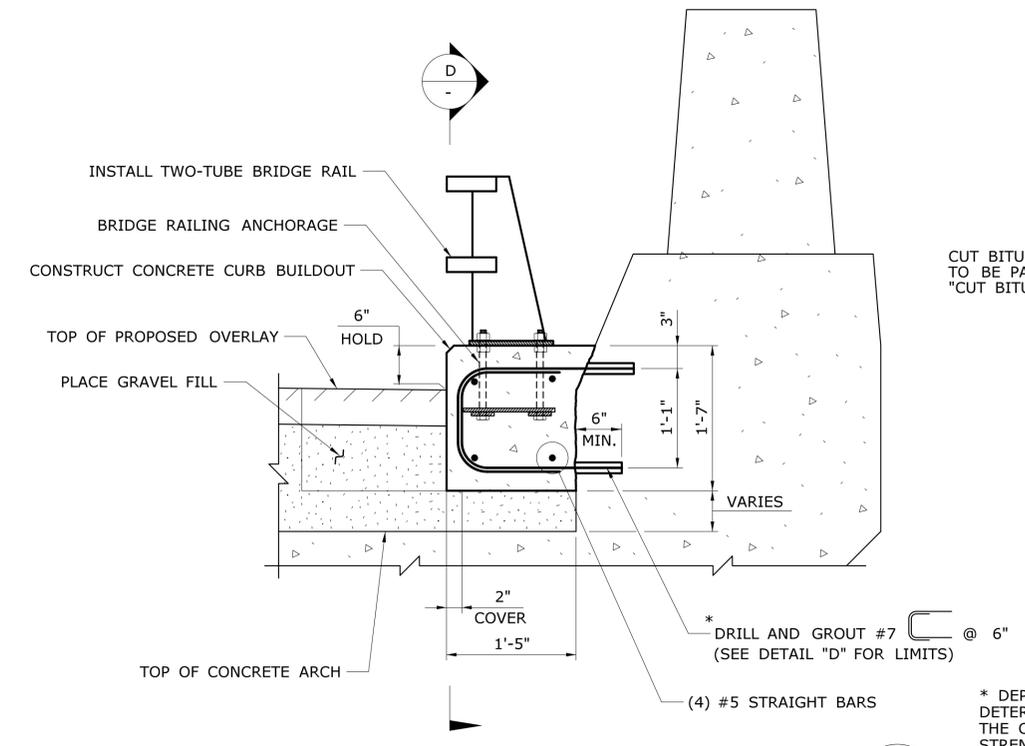
MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: **WESTPORT/FAIRFIELD**
DRAWING TITLE: **CURB BUILDOUT DETAILS 1**
BRIDGE NO. 00734
CROSS HIGHWAY

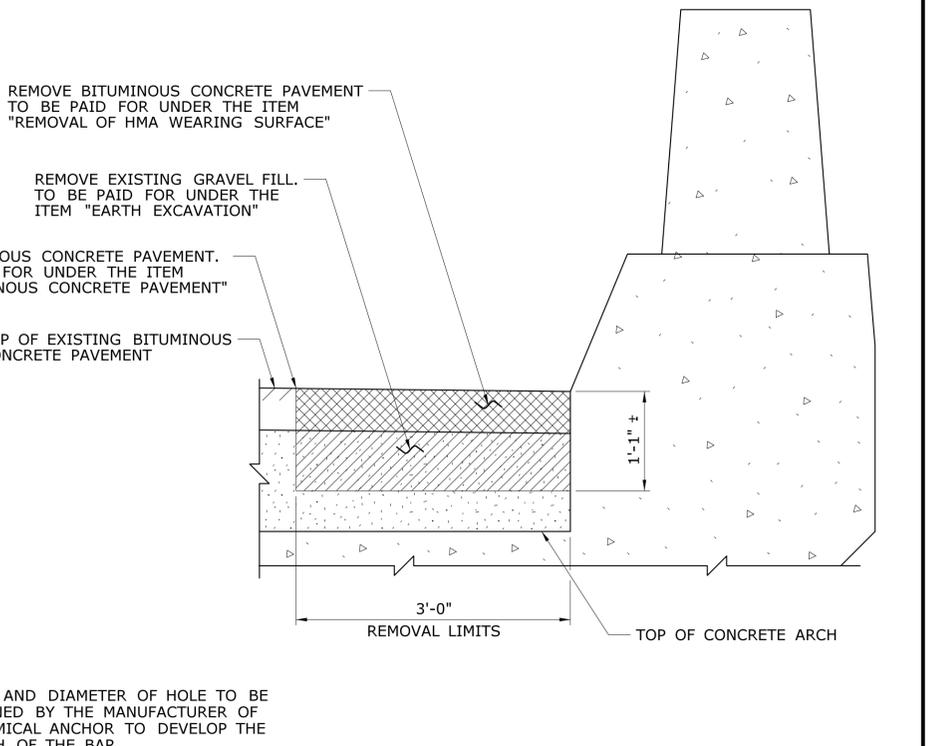
PROJECT NO. **158-211**
DRAWING NO. **S-38**
SHEET NO. **02.01.39**



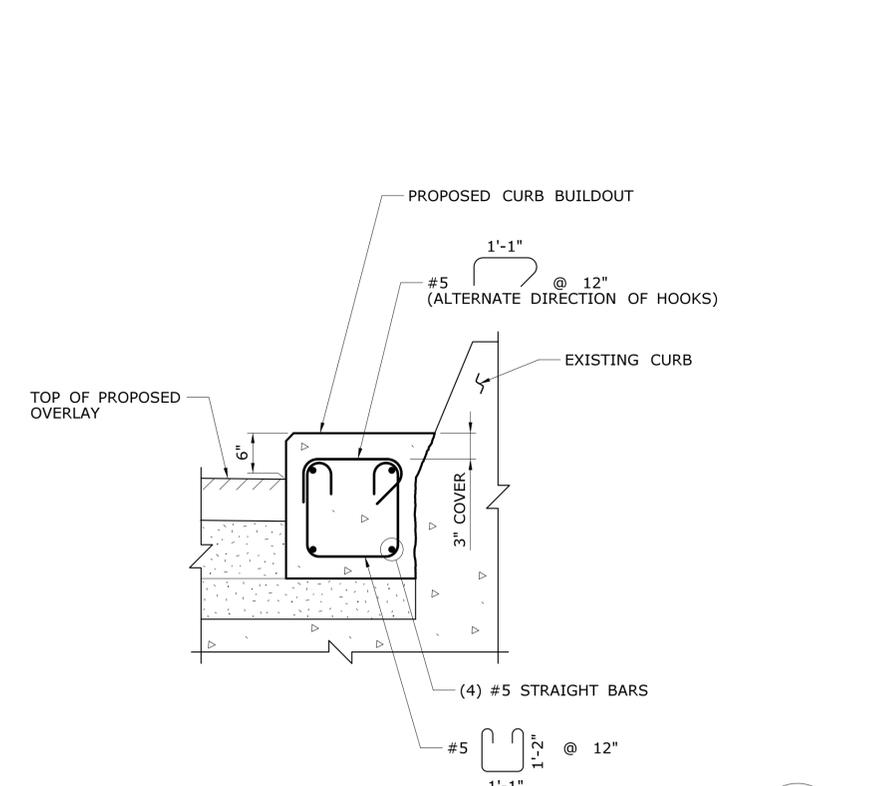
SECTION - PROPOSED CURB BUILDOUT REINFORCEMENT
 SCALE: 1"= 1'-0"
 D



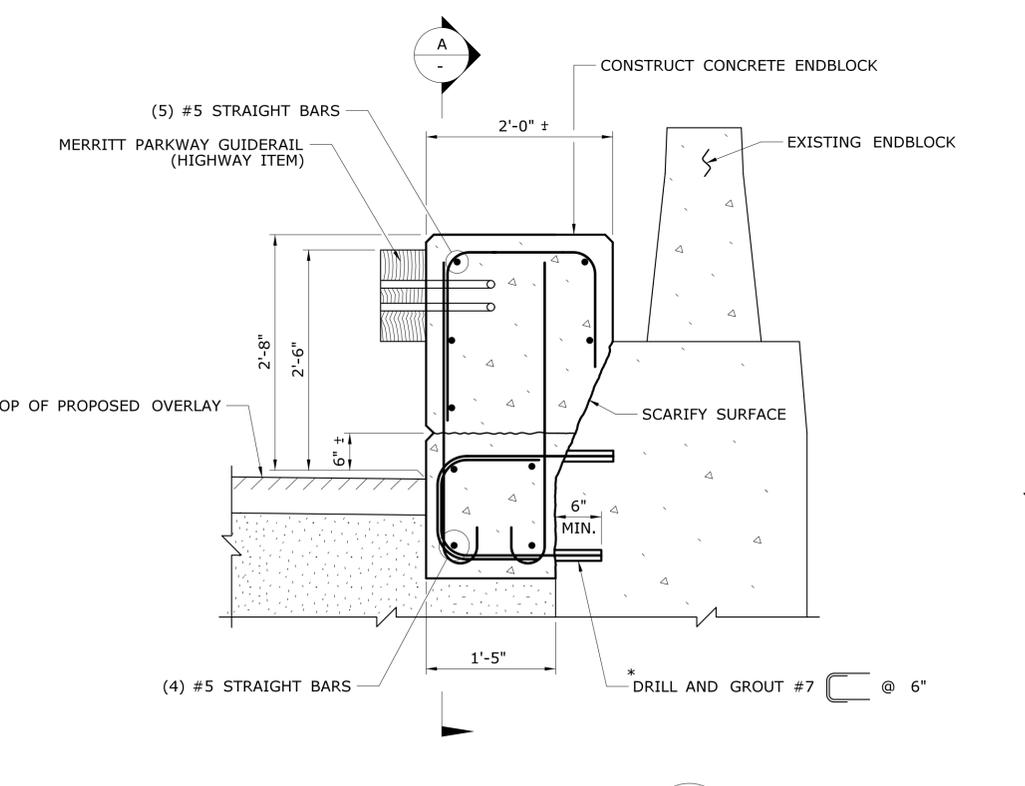
SECTION - TYPICAL CURB BUILDOUT NEAR POST
 SCALE: 1"= 1'-0"
 C



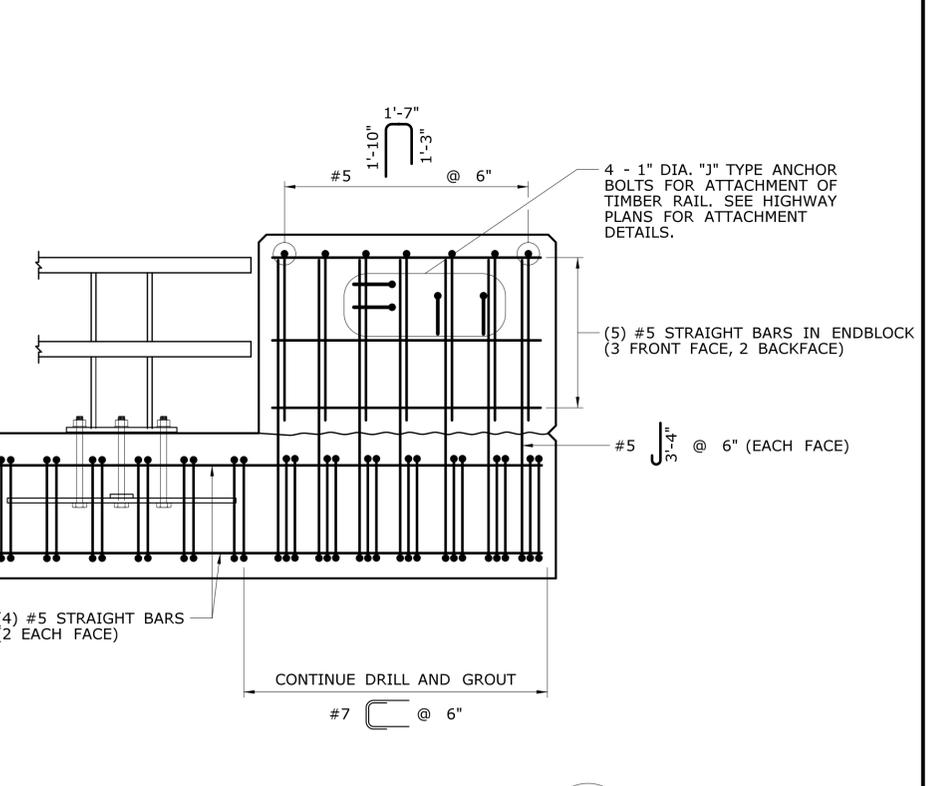
SECTION - TYPICAL EXISTING PARAPET WITH REMOVAL LIMITS
 SCALE: 1"= 1'-0"
 S-37



SECTION - TYPICAL REINFORCEMENT BETWEEN POSTS
 SCALE: 1"= 1'-0"
 E



SECTION - ENDBLOCK
 SCALE: 1"= 1'-0"
 B



ELEVATION - ENDBLOCK REINFORCEMENT
 SCALE: 1"= 1'-0"
 A

DESIGNER/DRAFTER: MC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		OFFICE OF ENGINEERING	DRAWING TITLE: CURB BUILDOUT DETAILS 2	DRAWING NO. S-39	
SCALE AS NOTED	Plotted Date: 8/1/2016	APPROVED BY:	BRIDGE NO. 00734	SHEET NO. 02.01.40	
REV. DATE	REVISION DESCRIPTION	SHEET NO.			

GENERAL DESCRIPTION OF WORK

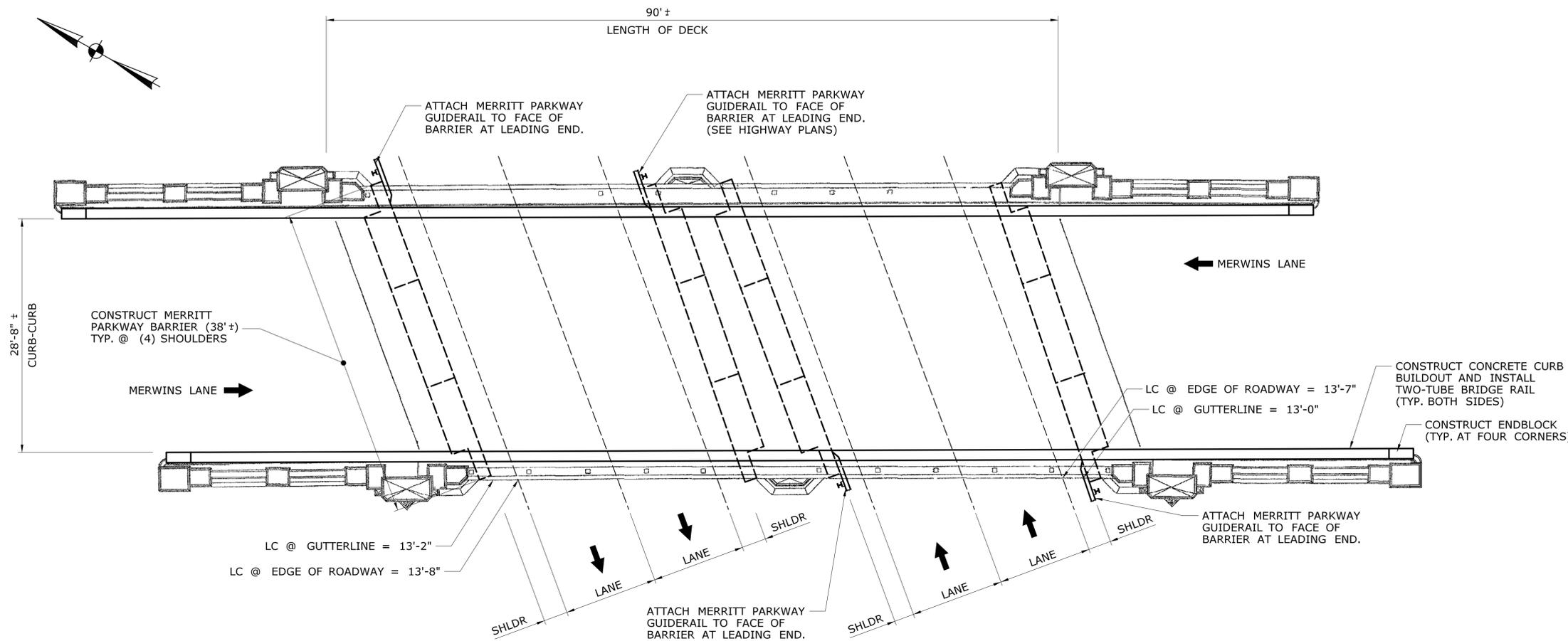
REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE

GENERAL BRIDGE WORK

- CLEAN ALL CONCRETE SURFACES OF BRIDGE.
- OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS.
- SUBMIT PROPOSED MIX DESIGN FOR "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES".
- REMOVE EXISTING GRAFFITI, AS APPLICABLE.
- DEVELOP MOCK-UPS, AS REQUIRED.
- REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
- REMOVE EXISTING METAL BEAM RAIL ON ROUTE 15 SOUTHBOUND AT FRONT OF ABUTMENT AND REPLACE WITH MERRITT PARKWAY BARRIER. ATTACH MERRITT PARKWAY GUIDE RAIL.
- CONSTRUCT MERRITT PARKWAY BARRIER BY MODIFYING THE EXISTING SAFETY SHAPE BARRIERS AT THE REMAINING THREE SHOULDERS ON ROUTE 15. ATTACH MERRITT PARKWAY GUIDE RAIL.

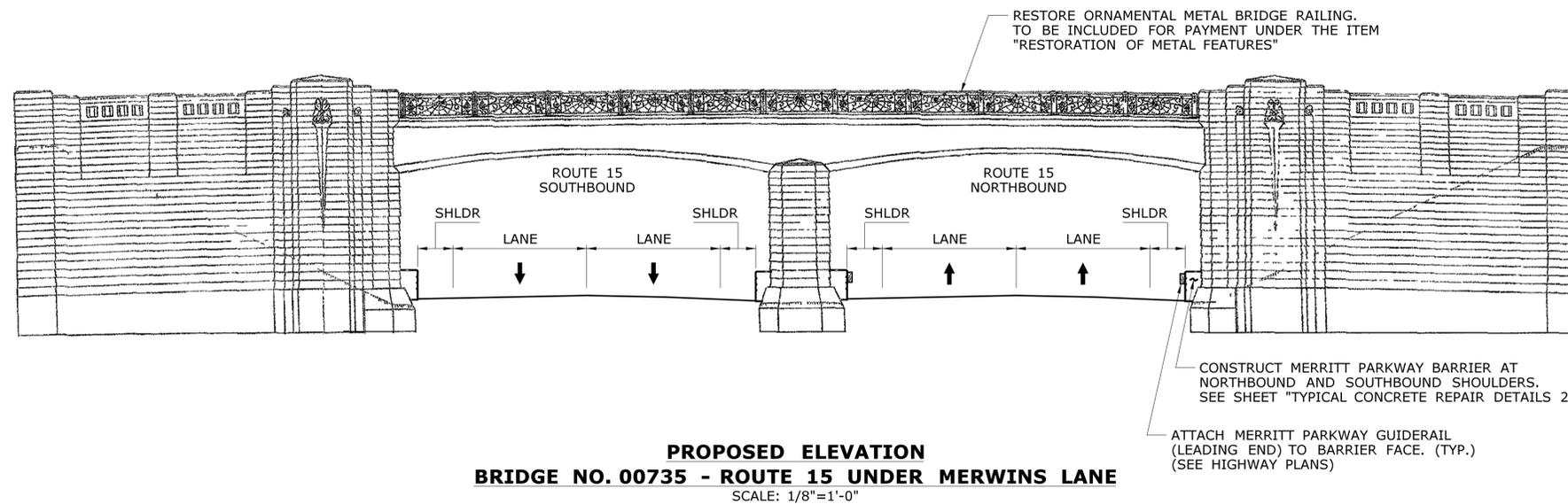
TOPSIDE WORK

- COORDINATE START OF BRIDGE WORK WITH LOCAL TRAFFIC AUTHORITY
- SURVEY EXISTING ROADWAY PROFILE AND GUTTERLINES FOR RECONSTRUCTION IN-KIND.
- NOTIFY UTILITIES OF PROPOSED START OF BRIDGE WORK.
- ESTABLISH ONE-WAY ALTERNATING TRAFFIC CONTROLS.
- REMOVE HMA WEARING SURFACE AND WATERPROOFING MEMBRANE, AND REPAIR UNSOUND CONCRETE AT TOP OF CONCRETE FRAME AS REQUIRED.
- RESTORE ORNAMENTAL METAL BRIDGE RAILING.
- CONSTRUCT CONCRETE CURB BUILDOUTS AND INSTALL TWO-TUBE BRIDGE RAIL.
- APPLY WATERPROOFING MEMBRANE (COLD LIQUID ELASTOMERIC) TO TOP OF CONCRETE FRAME.
- RE-CONSTRUCT ROADWAY AND REOPEN ROAD TO FULL TRAFFIC.



PROPOSED PLAN
BRIDGE NO. 00735 - ROUTE 15 UNDER MERRINS LANE
 SCALE: 1/8"=1'-0"

NOTE:
 FINAL LANE AND SHOULDER LAYOUTS AT BRIDGE SHALL BE PER HIGHWAY PLANS. REFER TO HIGHWAY PLANS FOR MILL AND PAVE LIMITS.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 7/11/2016

DESIGNER/DRAFTER: **MC**

CHECKED BY: **JRH/DSG**

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\\SB-158-211-Brg00735-General_Plan.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: *Mary E. Baker*

PROJECT TITLE: **MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS**

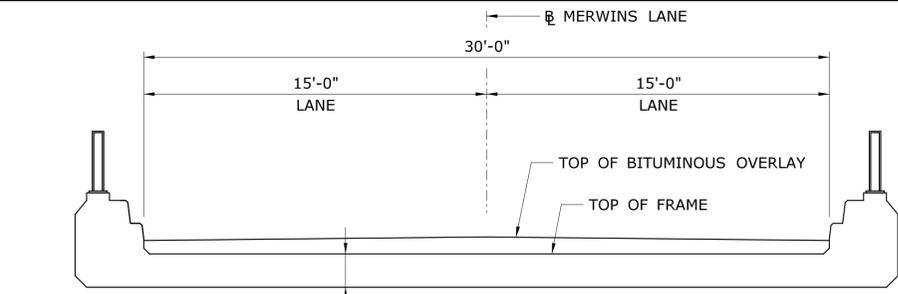
TOWN: **WESTPORT/FAIRFIELD**

DRAWING TITLE: **GENERAL PLAN BRIDGE NO. 00735 MERRINS LANE**

PROJECT NO.: **158-211**

DRAWING NO.: **S-40**

SHEET NO.: **02.01.41**



TYPICAL SECTION - EXISTING CONDITION

SCALE: 1/4"=1'-0"

RECONSTRUCTION OF MERWINS LANE: THE CONTRACTOR SHALL SURVEY THE EXISTING ROADWAY AND RE-ESTABLISH THE FINAL ROADWAY PROFILE AND CROSS SLOPE TO MATCH THE EXISTING ROADWAY. WHERE THE EXISTING CROSS SLOPE IS LESS THAN 1 1/2%, RECONSTRUCT THE CROSS SLOPE TO 1 1/2%. THE FINAL CURB REVEALS MAY BE INCREASED DUE TO ESTABLISHMENT OF A MINIMUM 1 1/2% CROSS SLOPE.

NOTES:

1. LOCATIONS AND AREAS OF DETERIORATED CONCRETE AT TOP OF FRAME ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. TO BE FIELD DETERMINED BY ENGINEER.
2. RESTORATION OF ORNAMENTAL RAILING TO BE PAID FOR UNDER THE ITEM "RESTORATION OF METAL FEATURES".

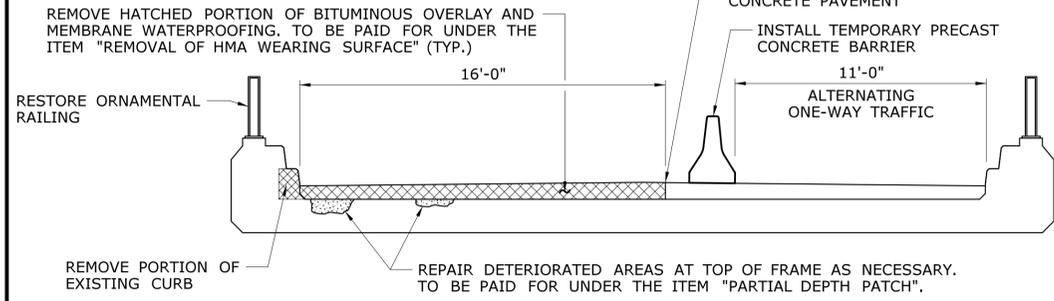
PROPOSED SEQUENCE OF STAGE CONSTRUCTION (TOPSIDE WORK)

STAGE 1

1. SURVEY EXISTING ROADWAY FOR RE-ESTABLISHMENT OF FINAL PROFILE ALONG CENTERLINE.
2. INSTALL TEMPORARY PRECAST CONCRETE BARRIER CURB AND ESTABLISH MP&T.
3. REMOVE STAGE 1 BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
4. REMOVE PORTION OF EXISTING CURB.
5. REPAIR TOP OF FRAME AS NECESSARY.
6. RESTORE ORNAMENTAL RAILING.
7. CONSTRUCT CONCRETE CURB BUILDOUT AND INSTALL TWO-TUBE BRIDGE RAIL.
8. APPLY MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN.
9. PLACE 1" HMA S0.25 OVER MEMBRANE WATERPROOFING FOLLOWED BY HMA S0.5 TO MATCH APPROACH PAVEMENT. PROVIDE UNIFORM 2" THICK HMA S0.5 FINAL LIFT.

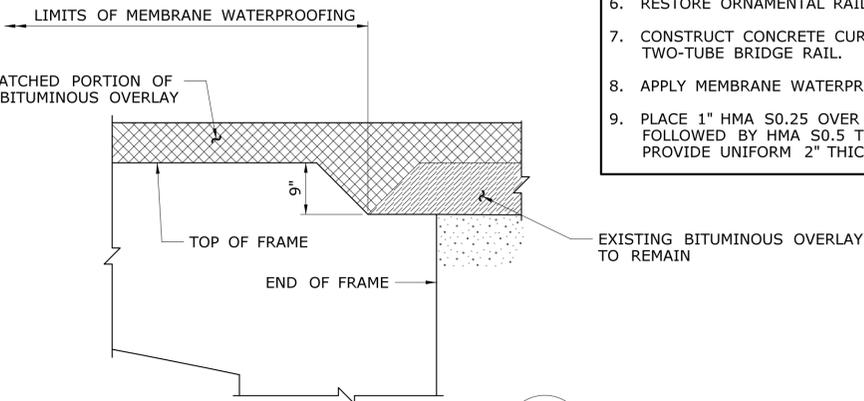
STAGE 2

10. RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURB AND SHIFT TRAFFIC ONTO RECONSTRUCTED PORTION OF ROADWAY.
11. REMOVE REMAINING PORTION OF BITUMINOUS OVERLAY AND MEMBRANE WATERPROOFING.
12. REMOVE PORTION OF EXISTING CURB
13. REPAIR TOP OF FRAME AS NECESSARY.
14. RESTORE ORNAMENTAL RAILING.
15. CONSTRUCT CONCRETE CURB BUILDOUT AND INSTALL TWO-TUBE BRIDGE RAIL.
16. APPLY MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN.
17. PLACE 1" HMA S0.25 OVER MEMBRANE WATERPROOFING FOLLOWED BY HMA S0.5 TO MATCH APPROACH PAVEMENT. PROVIDE UNIFORM 2" THICK HMA S0.5 FINAL LIFT.



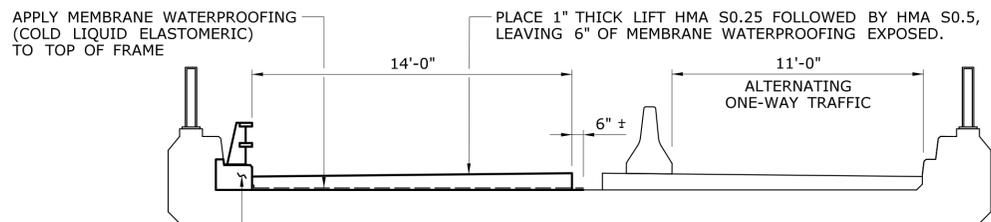
STAGE 1A

SCALE: 1/4"=1'-0"



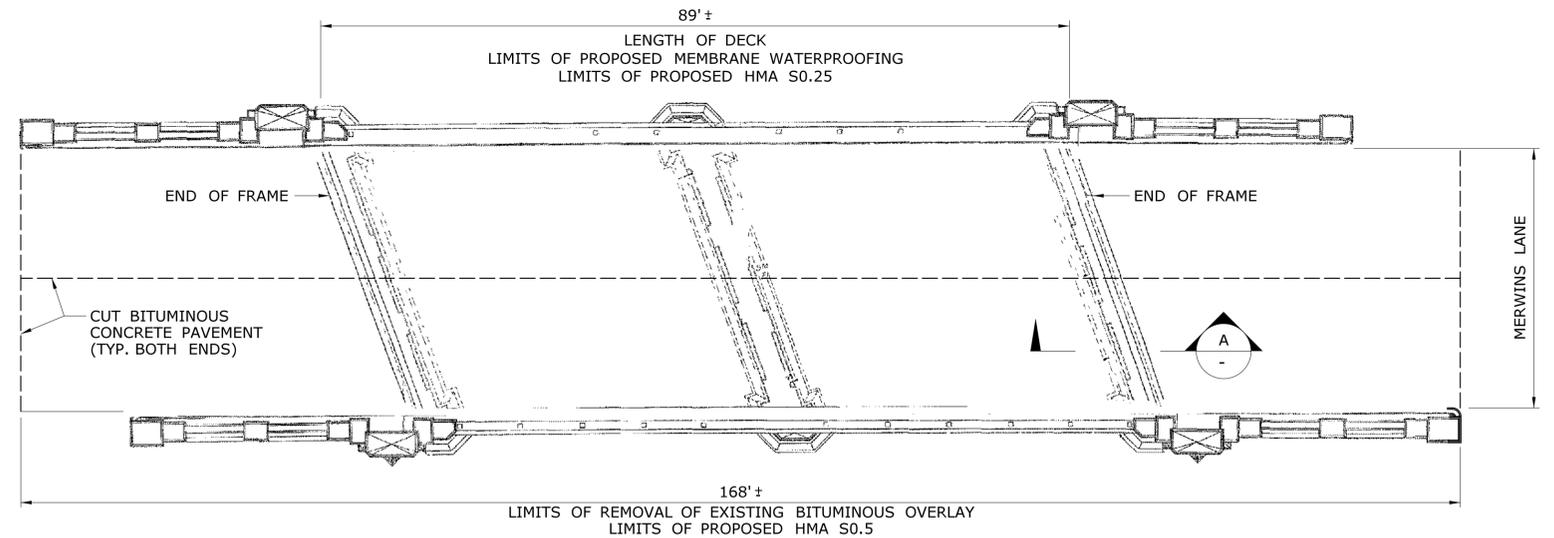
TYPICAL SECTION - END OF FRAME

SCALE: 3/4"=1'-0"



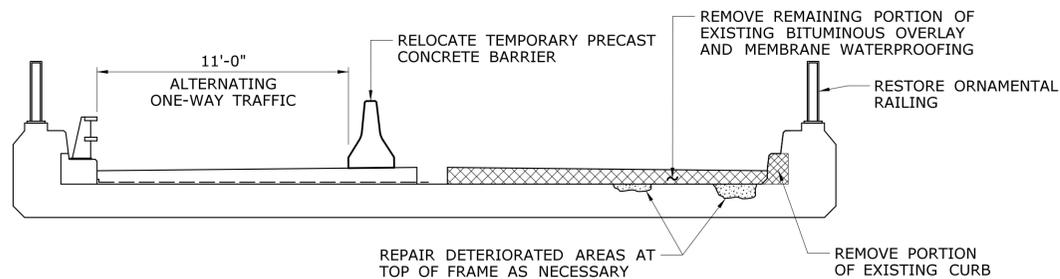
STAGE 1B

SCALE: 1/4"=1'-0"



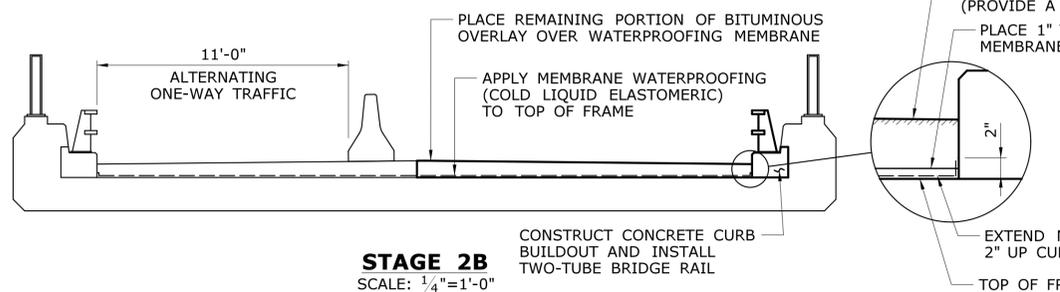
PLAN - LIMITS FOR REMOVAL OF EXISTING BITUMINOUS OVERLAY AND LIMITS FOR PROPOSED MEMBRANE WATERPROOFING

SCALE: 3/32"=1'-0"



STAGE 2A

SCALE: 1/4"=1'-0"



STAGE 2B

SCALE: 1/4"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

DESIGNER/DRAFTER: **MC**
 CHECKED BY: **JRH/DSG**
 SCALE AS NOTED

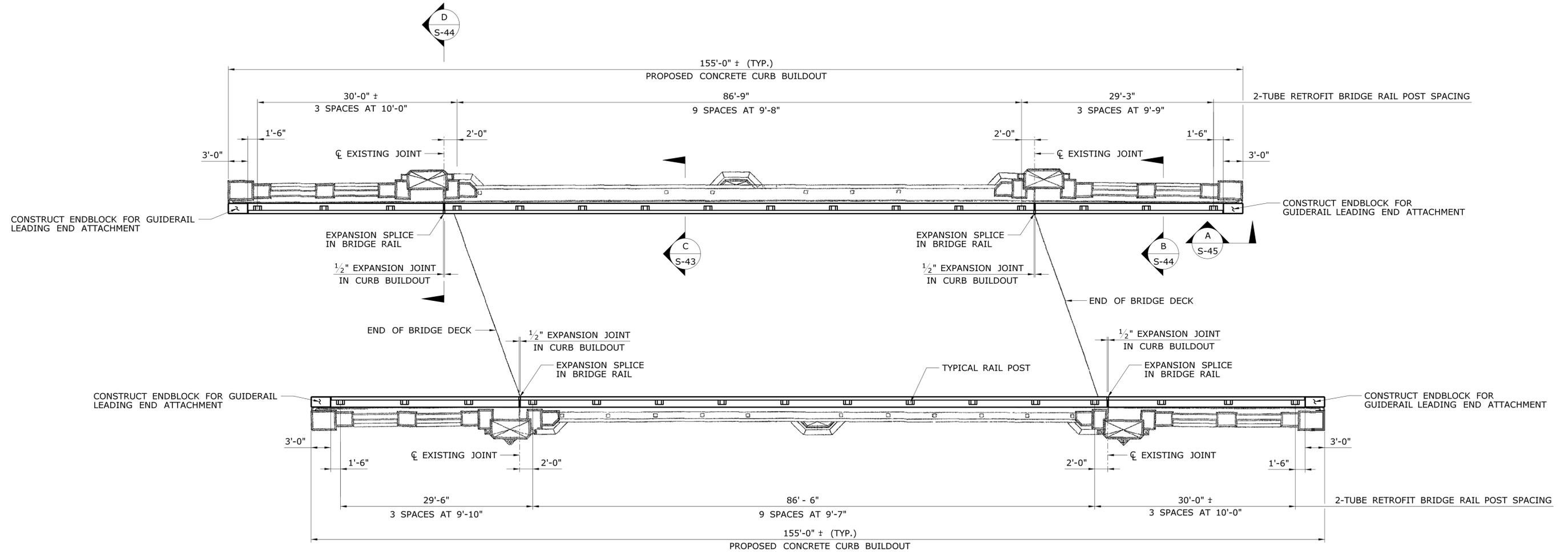
STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING
 APPROVED BY: *Mary E. Baker*

MERRITT PARKWAY (ROUTE 15)
 SAFETY IMPROVEMENTS, RESURFACING,
 ENHANCEMENTS AND BRIDGE IMPROVEMENTS

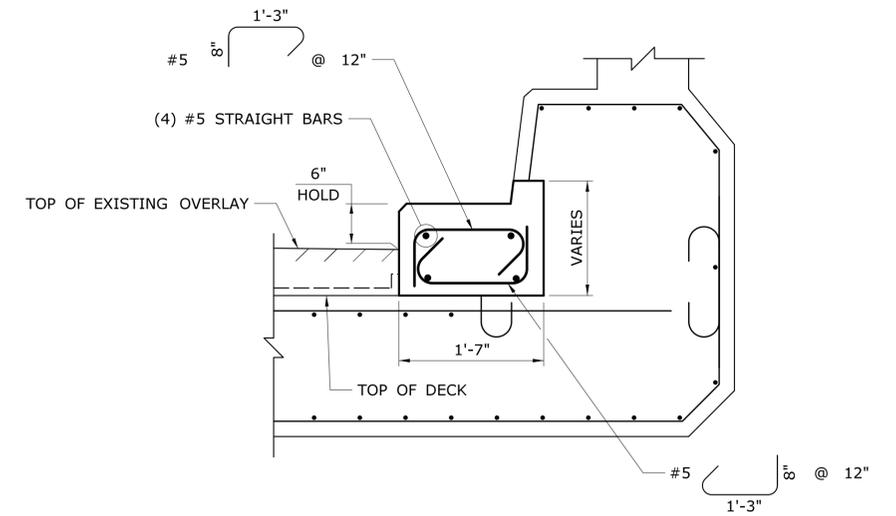
TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE: **STAGE CONSTRUCTION BRIDGE NO. 00735 MERWINS LANE**

PROJECT NO. **158-211**
 DRAWING NO. **S-41**
 SHEET NO. **02.01.42**



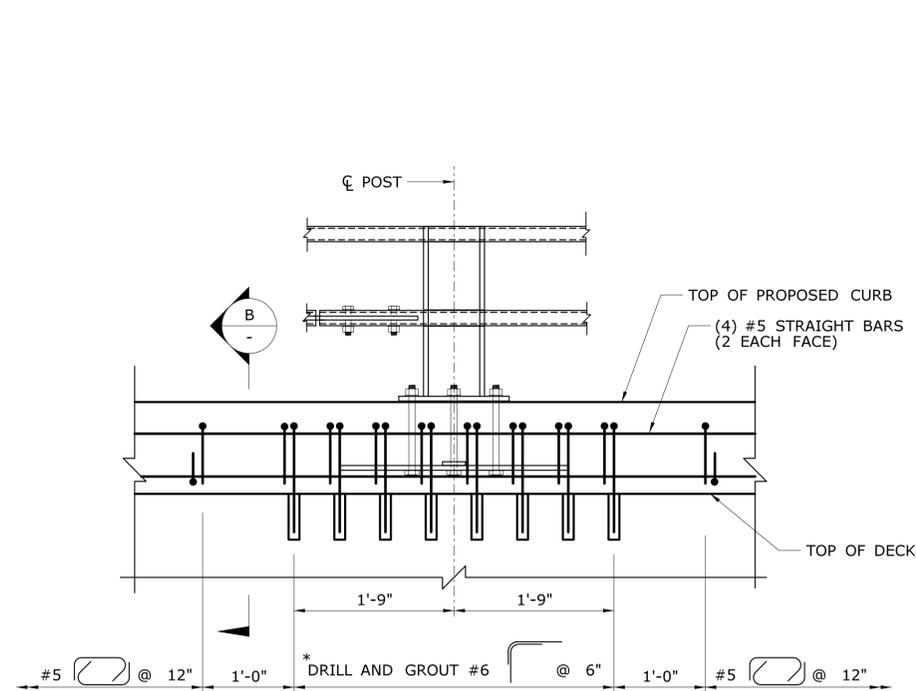
PROPOSED TWO-TUBE RAILING LAYOUT
BRIDGE NO. 00735 - ROUTE 15 UNDER MERWINS LANE
 SCALE: 1/8"=1'-0"

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.		DESIGNER/DRAFTER: MC	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: 	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG	SCALE AS NOTED	APPROVED BY: 		DRAWING TITLE: TWO-TUBE RAILING LAYOUT BRIDGE NO. 00735 MERWINS LANE	DRAWING NO. S-42	SHEET NO. 02.01.43	
REV. DATE - - - - - - - - - - - - - - -	REVISION DESCRIPTION - - - - - - - - - - - - - - -	SHEET NO. - - - - - - - - - - - -	Plotted Date: 7/16/2016	Filename: ...\\SB-158-211-Brg00735-Two-Tube-Railing-Layout.dgn			



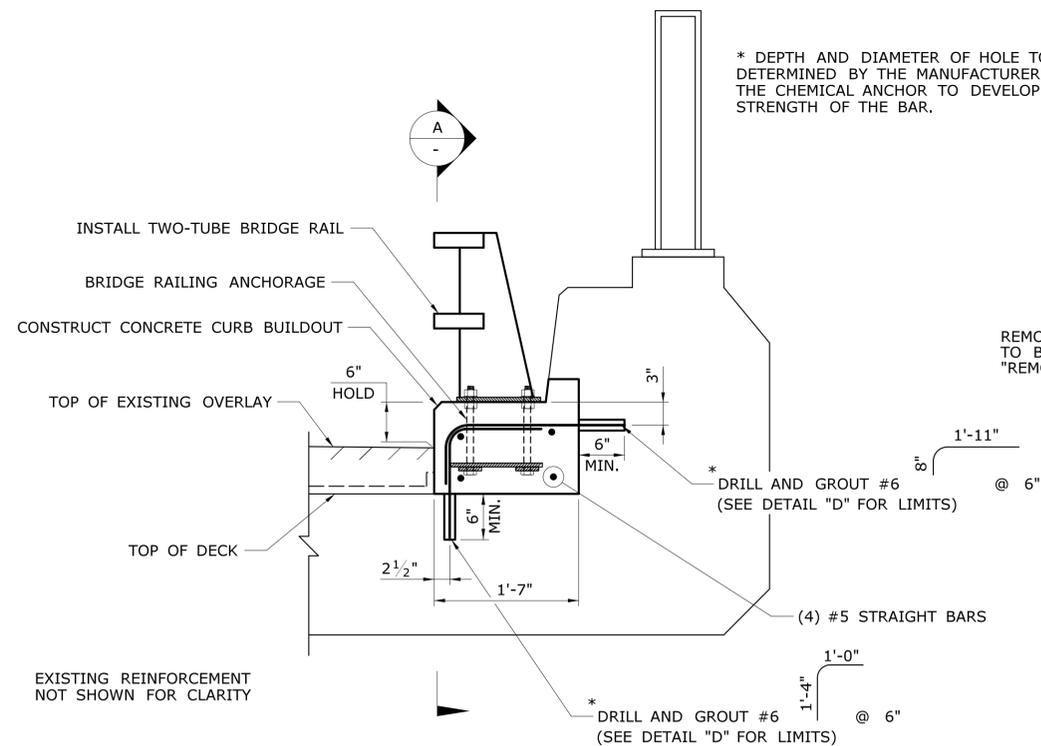
SECTION - TYPICAL REINFORCEMENT BETWEEN POSTS
SCALE: 1"= 1'-0"

B
-



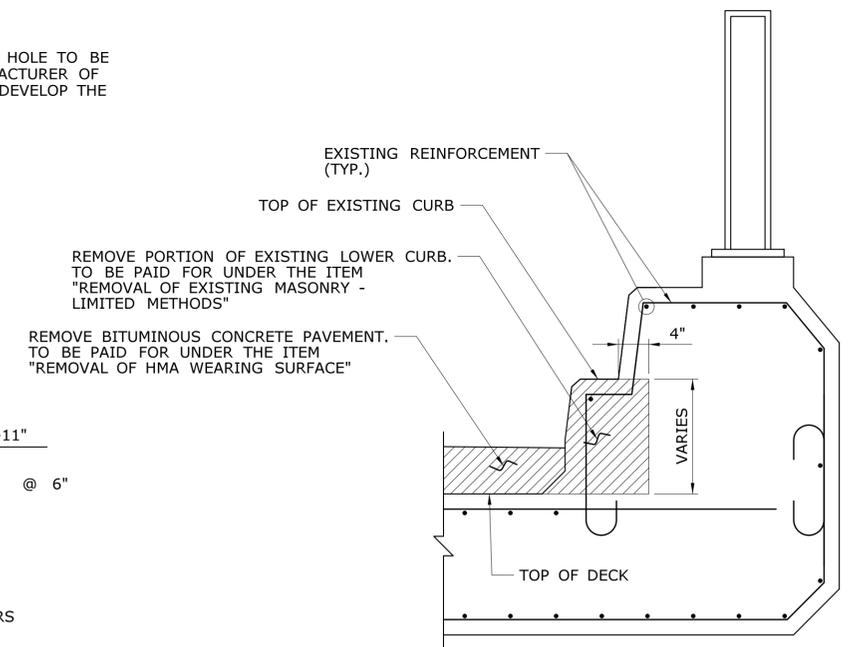
SECTION - PROPOSED CURB BUILDOUT REINFORCEMENT
SCALE: 1"= 1'-0"

A
-



SECTION - TYPICAL CURB BUILDOUT NEAR POST
SCALE: 1"= 1'-0"

C
S-42



SECTION - REMOVAL LIMITS FOR EXISTING CURB ON DECK
SCALE: 1"= 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **MC**
CHECKED BY: **JRH/DSG**
SCALE AS NOTED

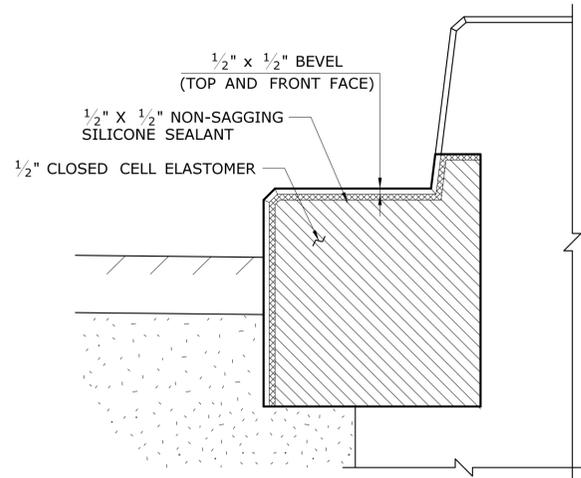
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING
APPROVED BY: *Mary E. Baker*

MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS

WESTPORT/FAIRFIELD
CURB BUILDOUT ON DECK
BRIDGE NO. 00735
MERWINS LANE

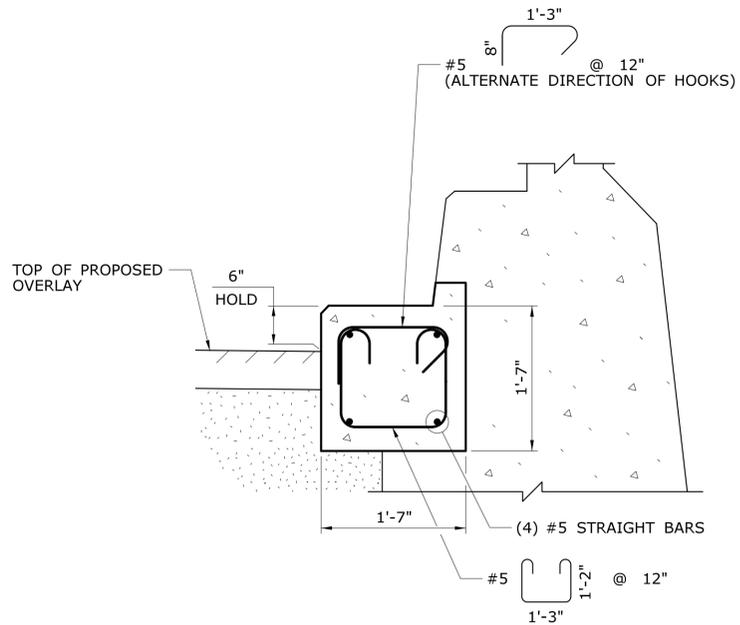
PROJECT NO. **158-211**
DRAWING NO. **S-43**
SHEET NO. **02.01.44**



SECTION - TYPICAL EXPANSION JOINT

SCALE: 1 1/2" = 1'-0"

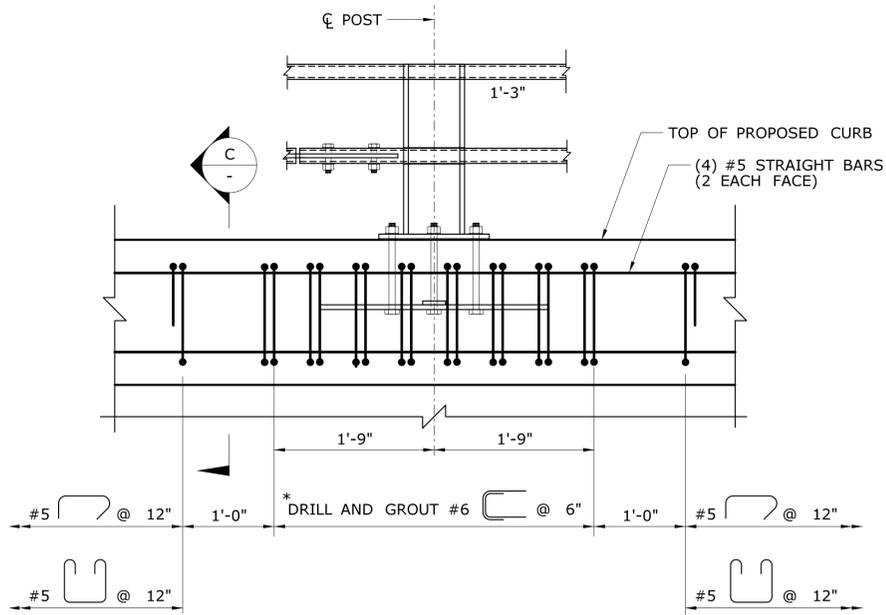
D
S-42



SECTION - TYPICAL REINFORCEMENT BETWEEN POSTS

SCALE: 1" = 1'-0"

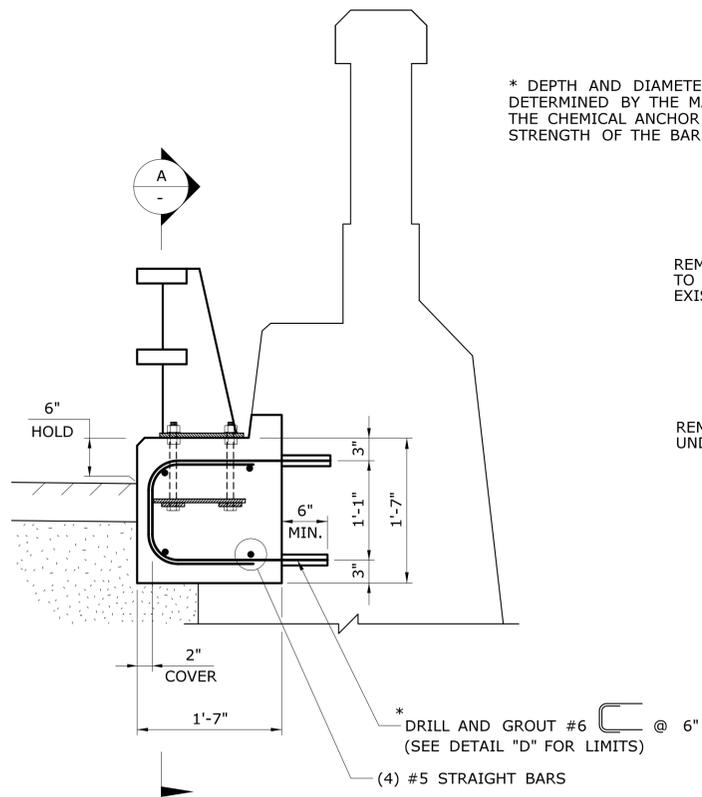
C
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SECTION - PROPOSED CURB BUILDOUT REINFORCEMENT

SCALE: 1" = 1'-0"

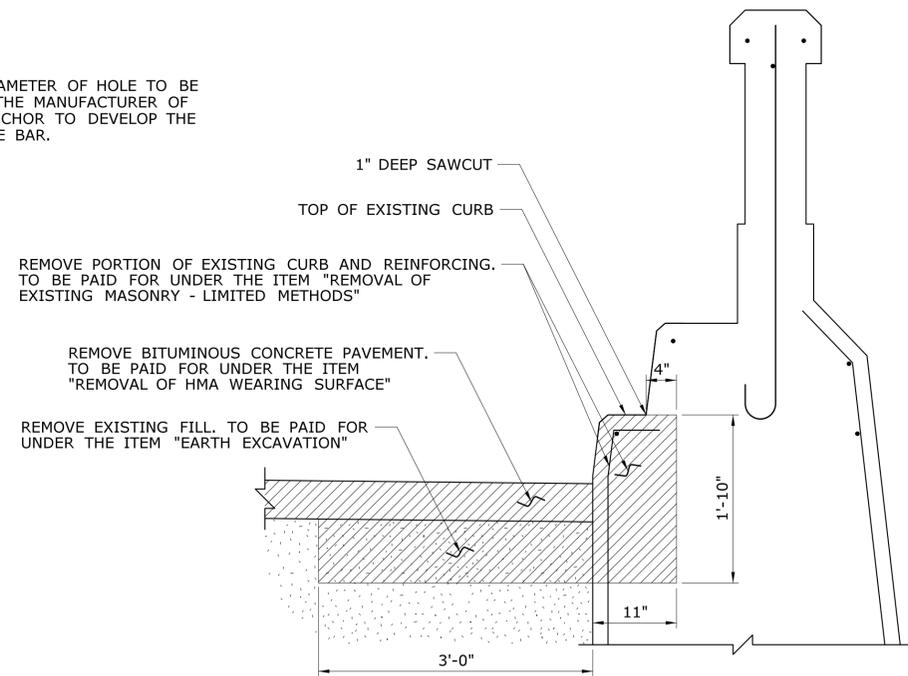
A
-



SECTION - TYPICAL CURB BUILDOUT NEAR POST

SCALE: 1" = 1'-0"

B
S-42



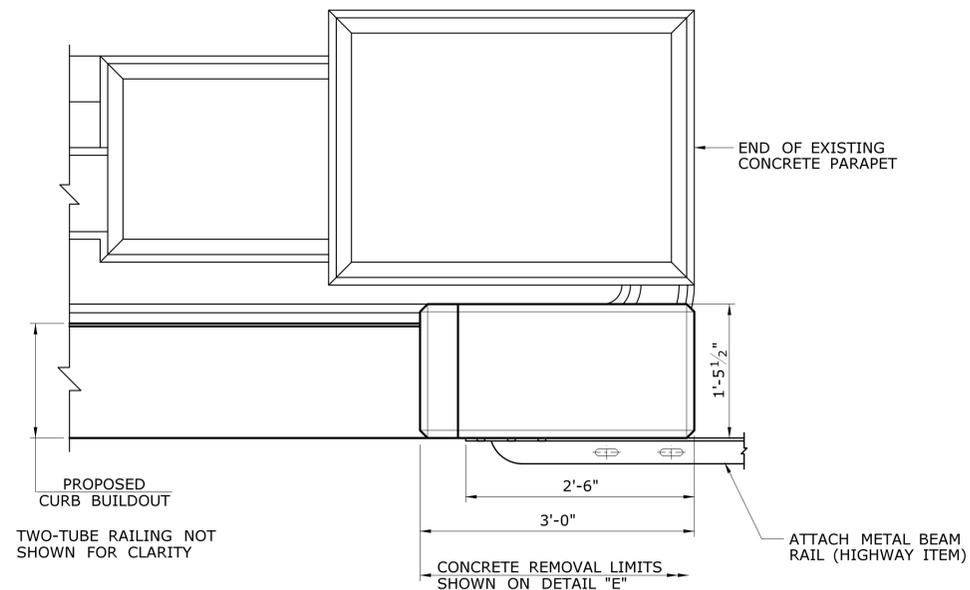
SECTION - REMOVAL LIMITS FOR EXISTING CURB AT WINGWALLS

SCALE: 1" = 1'-0"

DESIGNER/DRAFTER: MC	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	DRAWING TITLE: CURB BUILDOUT AT WINGWALLS	DRAWING NO. S-44	SHEET NO. 02.01.45
SCALE AS NOTED	Filename: ...SB-158-211_Brg00735_Curb_Buildout_Wingwalls.dgn				

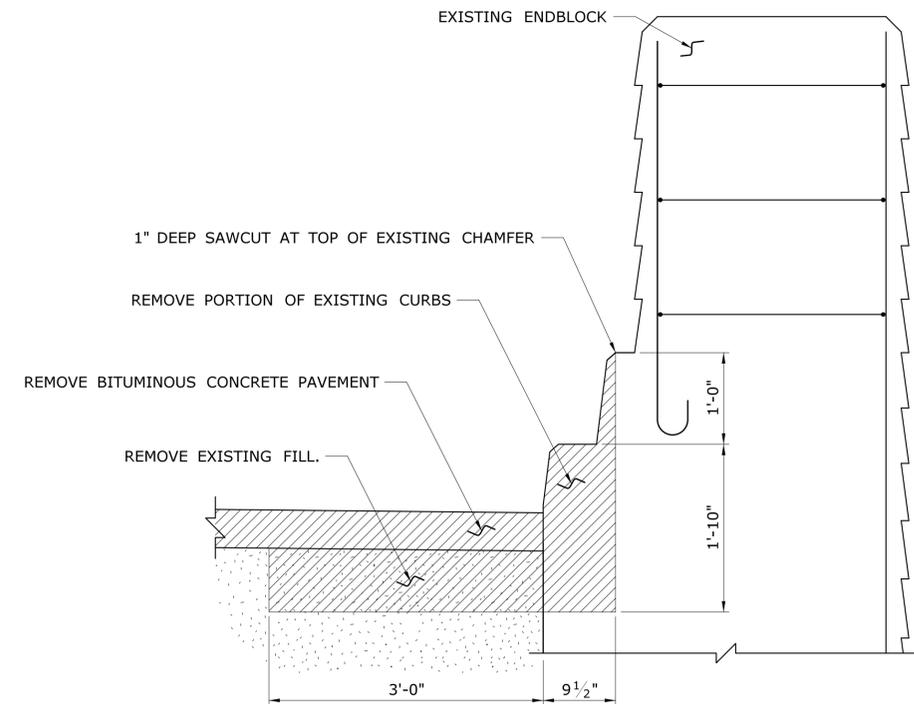
REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 8/1/2016



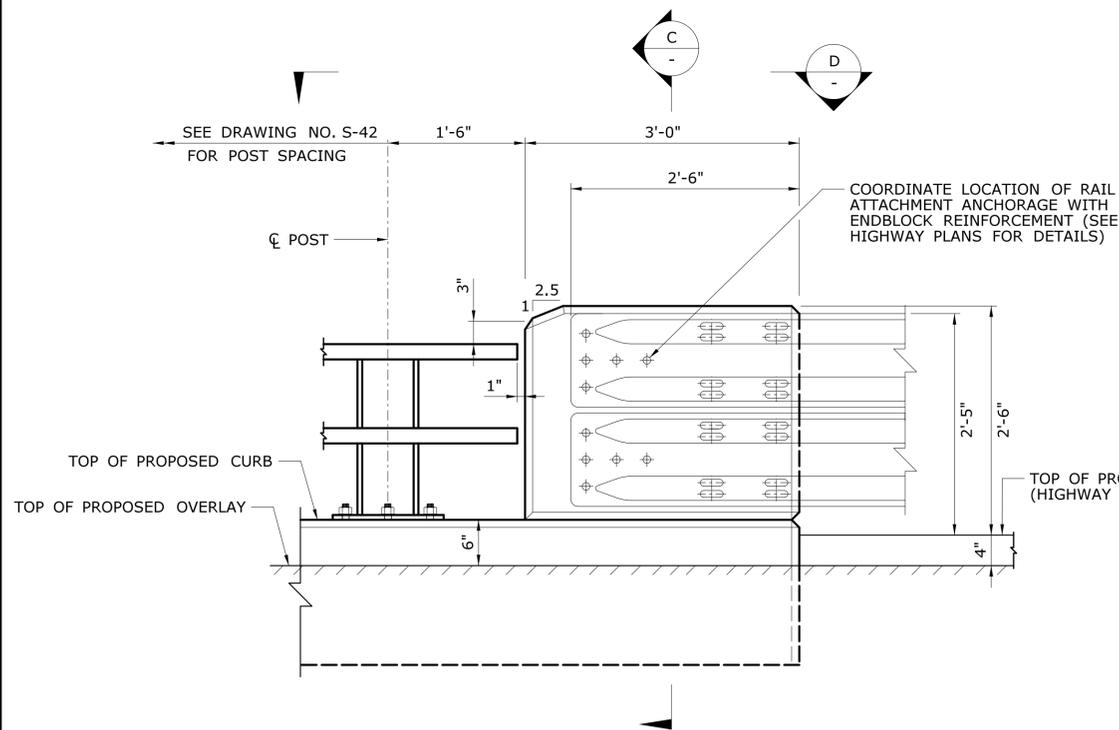
PLAN - TYPICAL ENDBLOCK

SCALE: 1"= 1'-0"



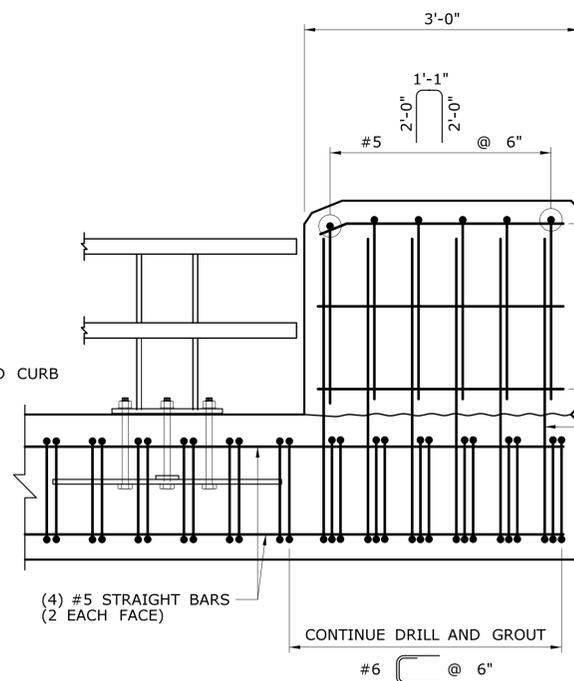
SECTION - REMOVAL LIMITS AT EXISTING CURB FOR CONSTRUCTION OF PROPOSED ENDBLOCKS

SCALE: 1"= 1'-0"



ELEVATION - TYPICAL ENDBLOCK

SCALE: 1"= 1'-0"



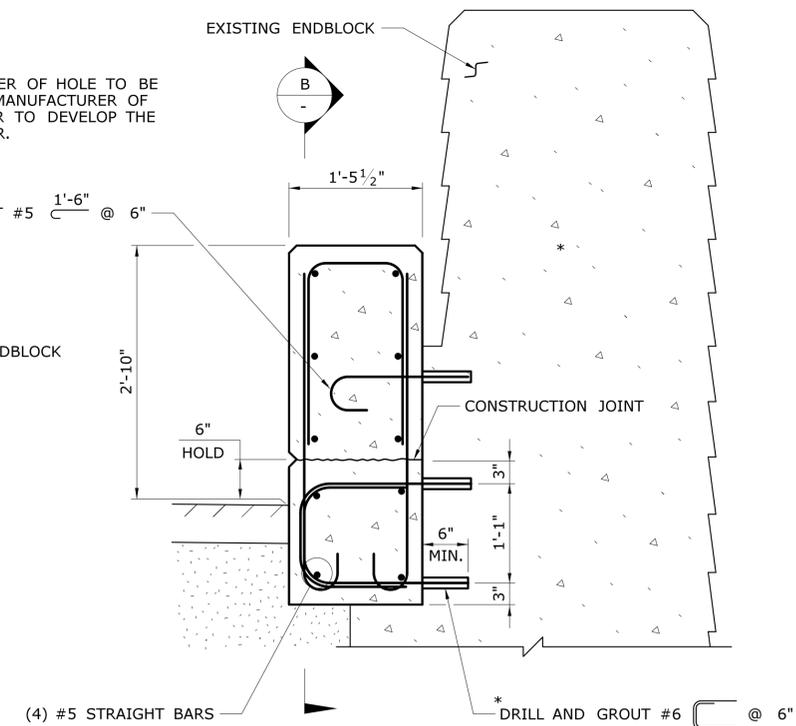
ELEVATION - ENDBLOCK REINFORCEMENT

SCALE: 1"= 1'-0"



* DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHOR TO DEVELOP THE STRENGTH OF THE BAR.

DRILL AND GROUT #5 1'-6" @ 6"



SECTION - ENDBLOCK

SCALE: 1"= 1'-0"



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **MC**
 CHECKED BY: **JRH/DSG**
 SCALE AS NOTED

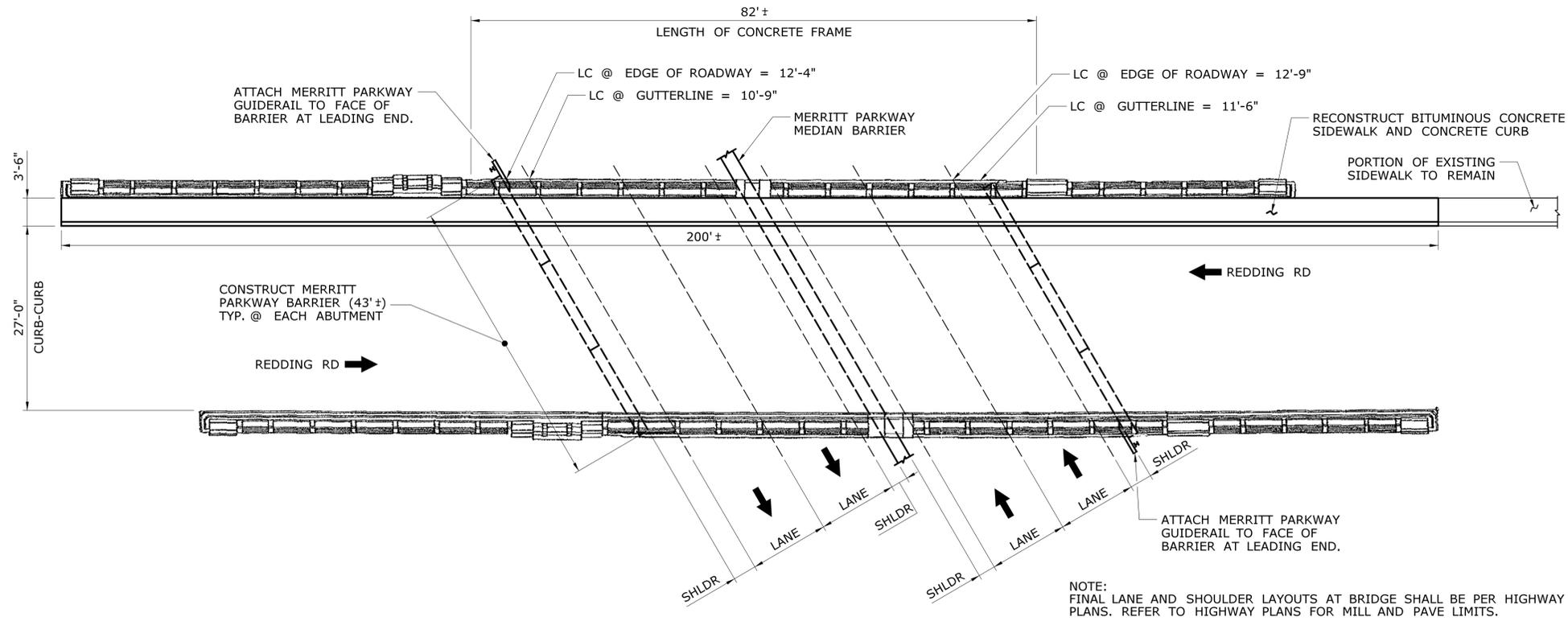
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
 APPROVED BY:
Mary E. Baker

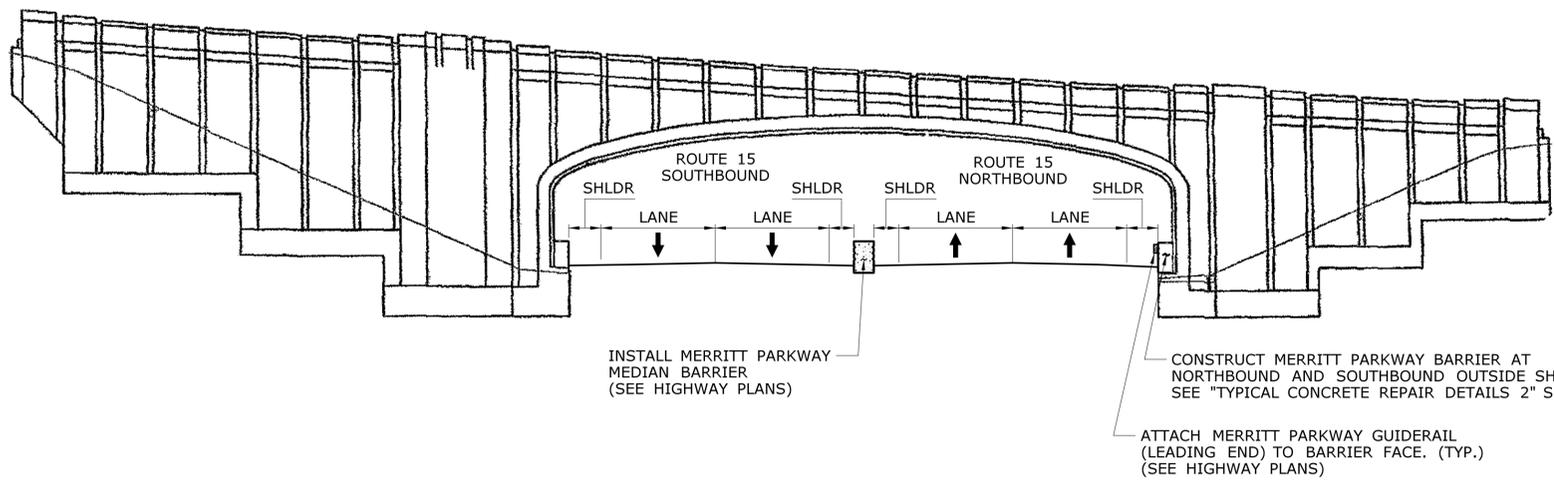
PROJECT TITLE:
MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: **WESTPORT/FAIRFIELD**
 DRAWING TITLE:
ENDBLOCK DETAILS
BRIDGE NO. 00735
MERWINS LANE

PROJECT NO. **158-211**
 DRAWING NO. **S-45**
 SHEET NO. **02.01.46**



PROPOSED PLAN
BRIDGE NO. 00736 - ROUTE 15 UNDER REDDING RD
 SCALE: 3/32"=1'-0"

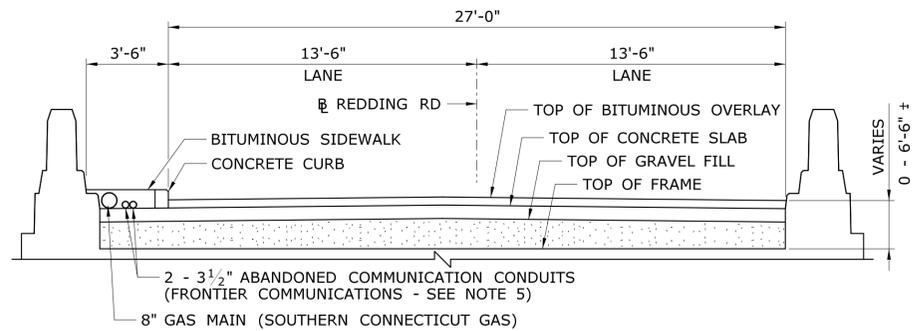


PROPOSED ELEVATION
BRIDGE NO. 00736 - ROUTE 15 UNDER REDDING RD
 SCALE: 3/32"=1'-0"

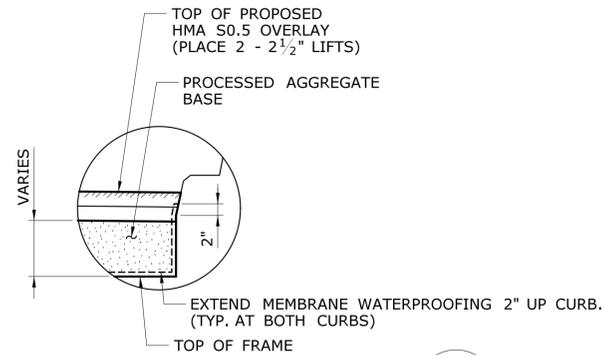
GENERAL DESCRIPTION OF WORK

- REFER TO STAGING PLANS FOR SUGGESTED SEQUENCE
- GENERAL BRIDGE WORK
- CLEAN ALL CONCRETE SURFACES OF BRIDGE.
 - OBTAIN CORE SAMPLES FOR TESTING AND ANALYSIS
 - SUBMIT PROPOSED MIX DESIGN FOR "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES"
 - REMOVE EXISTING GRAFFITI, AS APPLICABLE.
 - DEVELOP MOCK-UPS, AS REQUIRED.
 - REPAIR ALL AREAS OF BRIDGE CONTAINING UNSOUND CONCRETE AS DELINEATED BY THE ENGINEER AFTER SOUNDING OF STRUCTURE.
 - REMOVE EXISTING METAL BEAM RAIL IN MEDIAN ON ROUTE 15 AND REPLACE WITH MERRITT PARKWAY MEDIAN BARRIER.
 - CONSTRUCT MERRITT PARKWAY BARRIER AT FRONT OF ABUTMENTS AND ATTACH MERRITT PARKWAY GUIDE RAIL.
- TOPSIDE WORK
- COORDINATE START OF BRIDGE WORK WITH LOCAL TRAFFIC AUTHORITY
 - SURVEY EXISTING ROADWAY PROFILE AND GUTTERLINES FOR RECONSTRUCTION IN-KIND
 - NOTIFY UTILITIES OF PROPOSED START OF BRIDGE WORK
 - ESTABLISH ONE-WAY ALTERNATING TRAFFIC CONTROLS
 - REMOVE BITUMINOUS OVERLAY, BITUMINOUS SIDEWALK WITH CONCRETE CURB, CONCRETE SLAB, GRAVEL FILL, AND EXISTING MEMBRANE WATERPROOFING
 - REPAIR UNSOUND CONCRETE AT CURBS AND TOP OF CONCRETE FRAME AS REQUIRED.
 - APPLY WATERPROOFING MEMBRANE (COLD LIQUID ELASTOMERIC) TO TOP OF CONCRETE FRAME.
 - TEMPORARILY SUPPORT AND RELOCATE EXISTING 8" GAS MAIN.
 - REMOVE 2 - 3 1/2" ABANDONED COMMUNICATION CONDUITS.
 - CONSTRUCT BITUMINOUS CONCRETE SIDEWALK AND INSTALL CONCRETE CURB.
 - RE-CONSTRUCT ROADWAY.
 - REOPEN ROAD TO FULL TRAFFIC.

		DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: GENERAL PLAN BRIDGE NO. 00736 REDDING RD	PROJECT NO.: 158-211 DRAWING NO.: S-46 SHEET NO.: 02.01.47
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2016	Filename: ...\\SB-158-211-Brg00736-General.Plan.dgn		



SECTION - EXISTING CONDITION
SCALE: 1/4"=1'-0"



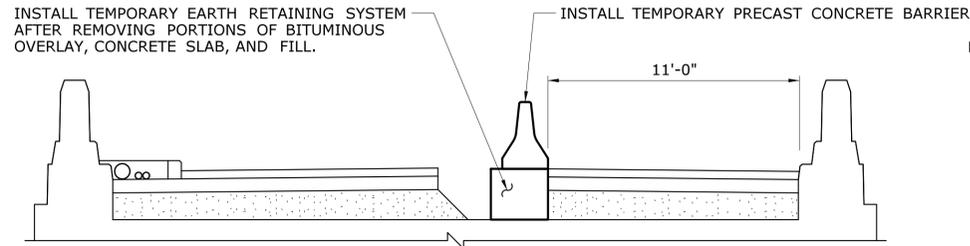
SECTION - TREATMENT AT CURBS
NOT TO SCALE

- NOTES:
- REMOVAL OF CONCRETE CURBING TO BE PAID FOR UNDER THE ITEM "REMOVAL OF CONCRETE CURBING"
 - REMOVAL OF BITUMINOUS SIDEWALK AND BITUMINOUS CONCRETE CURBING TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "REMOVAL OF BITUMINOUS SIDEWALK".
 - LOCATIONS AND AREAS OF DETERIORATED CONCRETE AT TOP OF FRAME ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. TO BE FIELD DETERMINED BY ENGINEER.
 - STEEL PLATE IS REQUIRED AT SECTIONS WHERE COVER OVER GAS MAIN IS LESS THAN 2 FEET.
 - LOCATION OF COMMUNICATION CONDUITS SHOWN IS ASSUMED. CONDUITS MAY BE LOCATED ELSEWHERE ON BRIDGE.

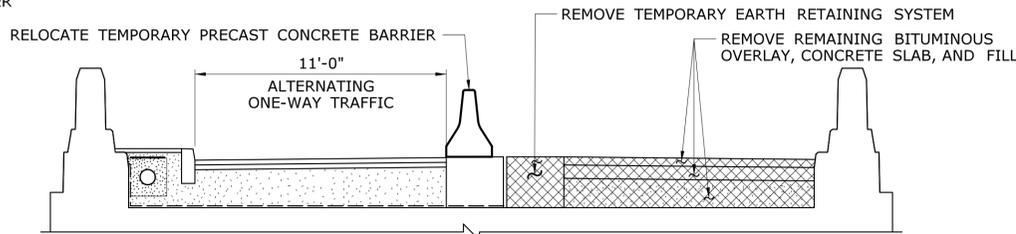
RECONSTRUCTION OF REDDING ROAD: THE CONTRACTOR SHALL SURVEY THE EXISTING ROADWAY AND RE-ESTABLISH THE FINAL ROADWAY PROFILE AND CROSS SLOPE TO MATCH THE EXISTING ROADWAY. WHERE THE EXISTING CROSS SLOPE IS LESS THAN 1 1/2%, RECONSTRUCT THE CROSS SLOPE TO 1 1/2%. THE FINAL CURB REVEALS MAY BE INCREASED DUE TO ESTABLISHMENT OF A MINIMUM 1 1/2% CROSS SLOPE.

PROPOSED SEQUENCE OF STAGE CONSTRUCTION (TOPSIDE WORK)

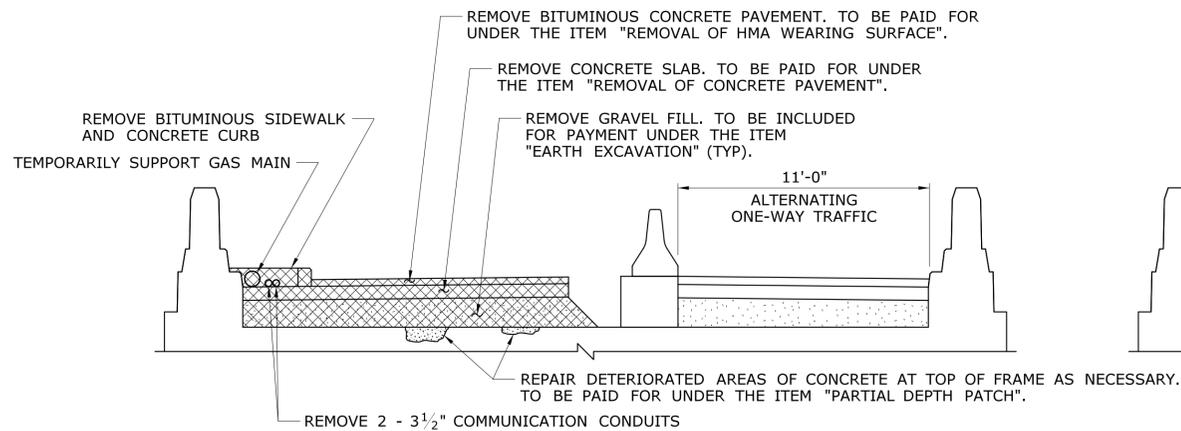
- STAGE 1**
- CLOSE BRIDGE TO TRAFFIC.
 - SURVEY EXISTING ROADWAY FOR RE-ESTABLISHMENT OF FINAL PROFILE ALONG CENTERLINE
 - REMOVE PORTIONS OF BITUMINOUS OVERLAY, CONCRETE SLAB, AND FILL NECESSARY TO INSTALL TEMPORARY EARTH RETAINING SYSTEM.
 - INSTALL TEMPORARY EARTH RETAINING SYSTEM, TEMPORARY PRECAST CONCRETE BARRIER CURB AND ESTABLISH MP&T.
- STAGE 2**
- REMOVE BITUMINOUS OVERLAY, BITUMINOUS SIDEWALK, CONCRETE CURB, CONCRETE SLAB, GRAVEL FILL, AND EXISTING MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN.
 - REMOVE 2 - 3 1/2" ABANDONDED COMMUNICATION CONDUITS AND TEMPORARILY SUPPORT GAS MAIN.
 - REPAIR TOP OF CONCRETE FRAME AS NECESSARY AND APPLY MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN.
 - RELOCATE GAS MAIN.
 - INSTALL TEMPORARY EARTH RETAINING SYSTEM.
 - INSTALL BITUMINOUS SIDEWALK AND CONCRETE CURB.
 - PLACE HMA S0.5 OVERLAY OVER PROCESSED AGGREGATE BASE WITHIN LIMITS SHOWN TO MATCH APPROACH PAVEMENT.
- STAGE 3**
- RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURB AND SHIFT TRAFFIC ONTO RECONSTRUCTED PORTION OF ROADWAY.
 - REMOVE TEMPORARY EARTH RETAINING SYSTEM INSTALLED DURING STAGE 1.
 - REMOVE REMAINING PORTION OF BITUMINOUS OVERLAY, CONCRETE SLAB, GRAVEL FILL, AND EXISTING MEMBRANE WATERPROOFING
 - REPAIR TOP OF CONCRETE FRAME AS NECESSARY AND APPLY MEMBRANE WATERPROOFING WITHIN LIMITS SHOWN.
- STAGE 4**
- CLOSE BRIDGE TO TRAFFIC.
 - REMOVE TEMPORARY EARTH RETAINING SYSTEM
 - PLACE HMA S0.5 OVERLAY OVER PROCESSED AGGREGATE BASE WITHIN LIMITS SHOWN TO MATCH APPROACH PAVEMENT.
 - OPEN BRIDGE TO FULL TRAFFIC.



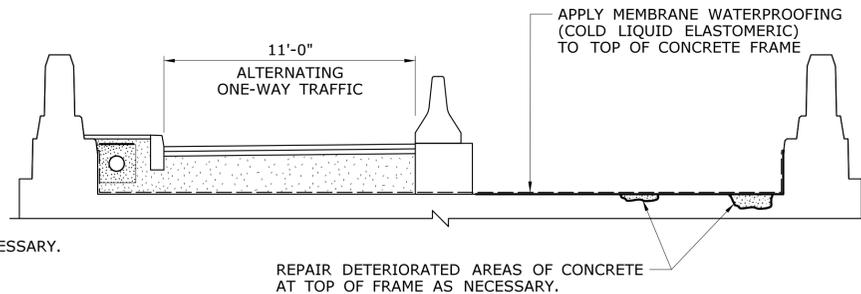
STAGE 1 (ROAD CLOSURE)
SCALE: 1/4"=1'-0"



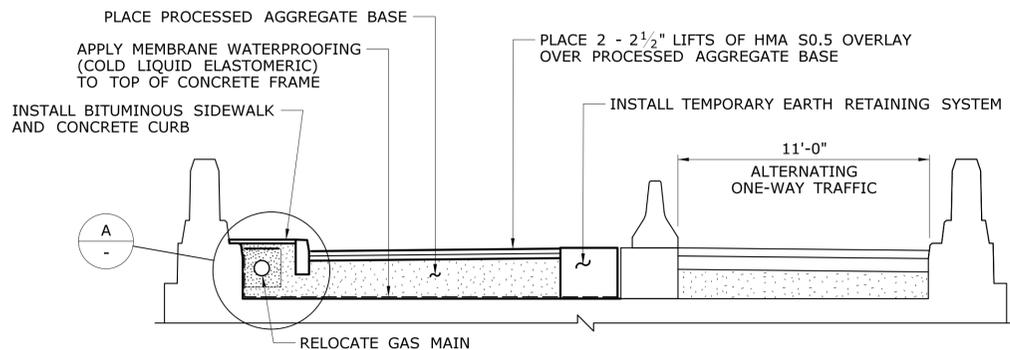
STAGE 3A
SCALE: 1/4"=1'-0"



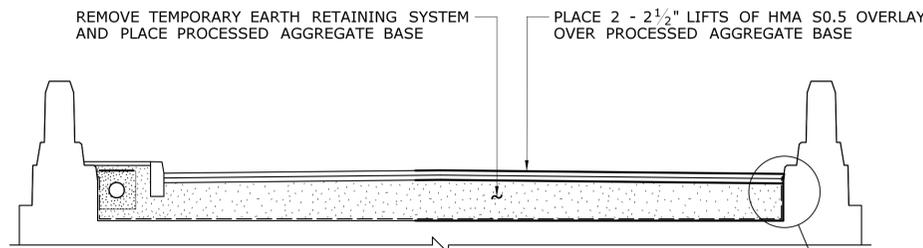
STAGE 2A
SCALE: 1/4"=1'-0"



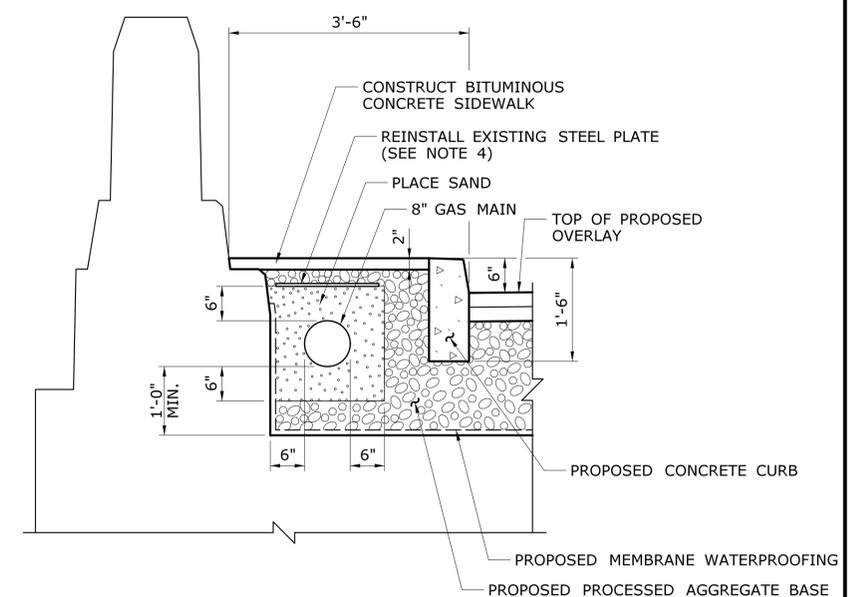
STAGE 3B
SCALE: 1/4"=1'-0"



STAGE 2B
SCALE: 1/4"=1'-0"

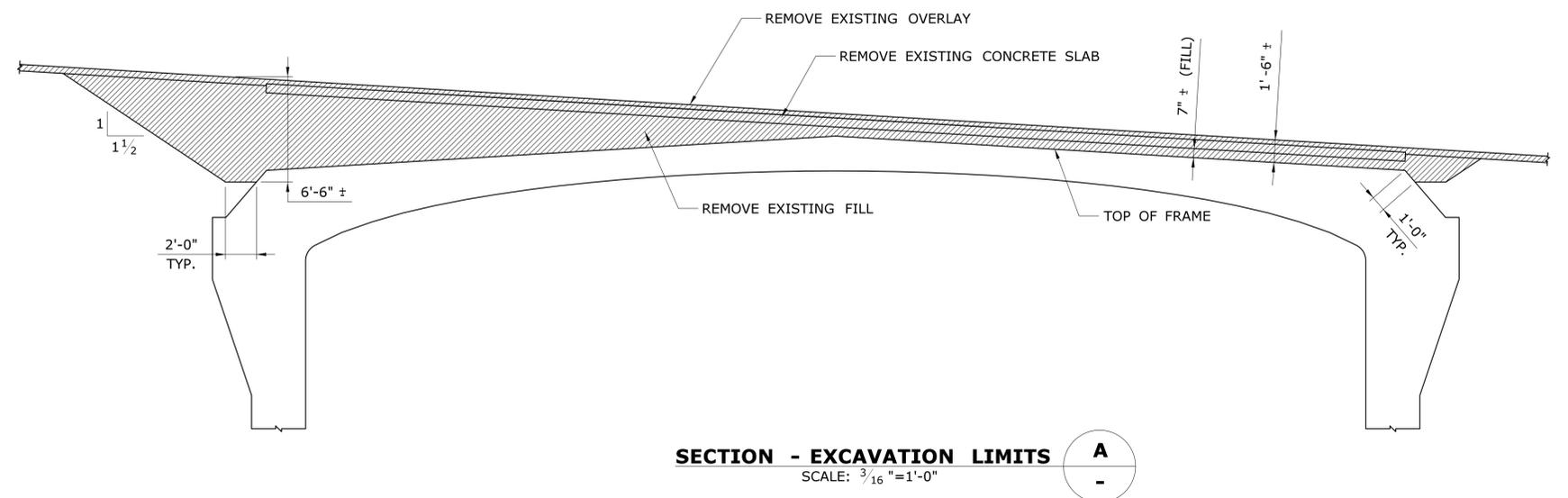
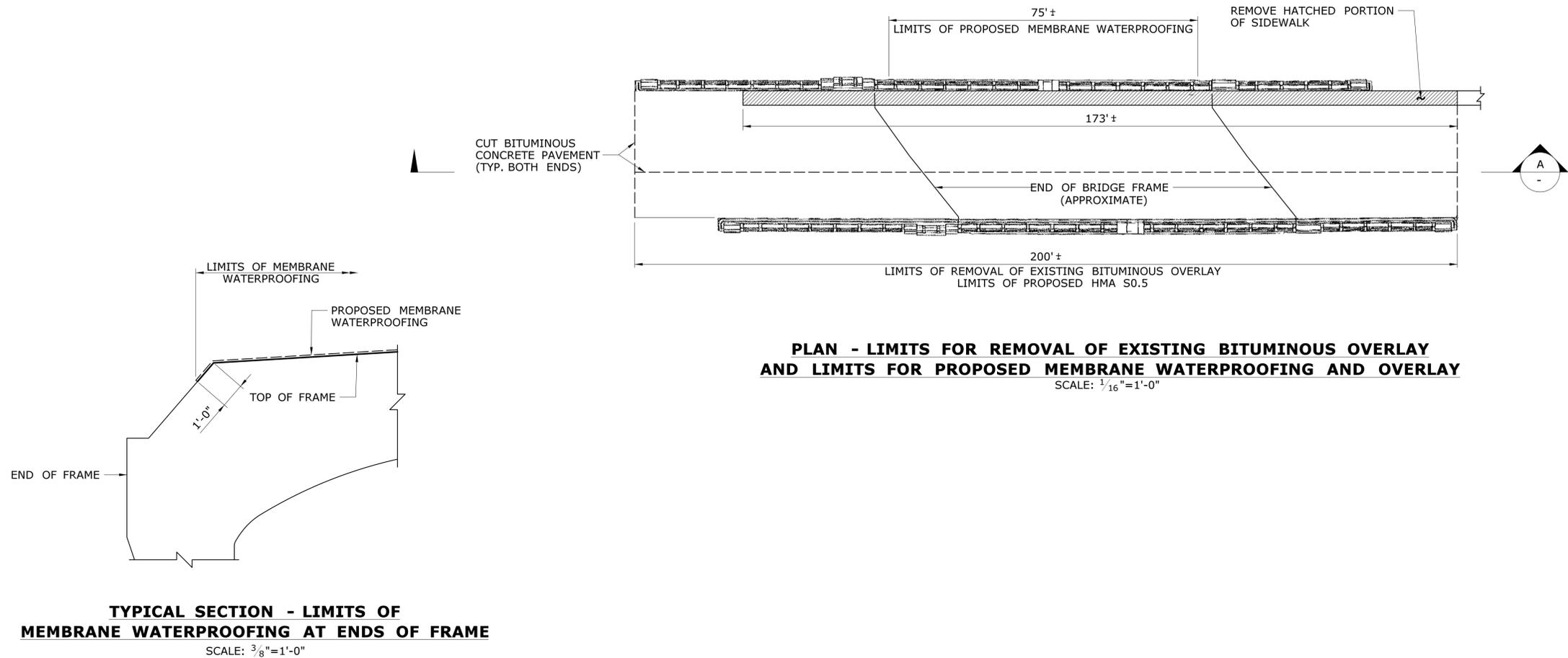


STAGE 4 (ROAD CLOSURE)
SCALE: 1/4"=1'-0"



SECTION - RECONSTRUCTION OF BITUMINOUS SIDEWALK
SCALE: 3/4"=1'-0"

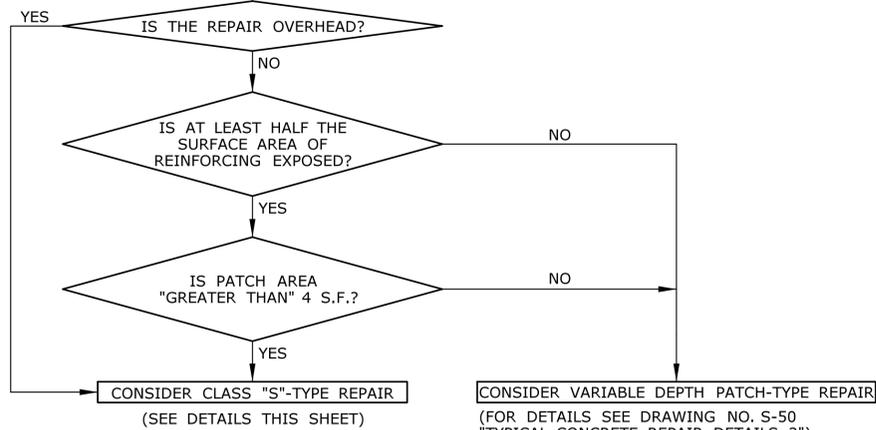
<table border="1"> <tr> <td>DESIGNER/DRAFTER:</td> <td>MC</td> </tr> <tr> <td>CHECKED BY:</td> <td>JRH/DSG</td> </tr> <tr> <td>SCALE AS NOTED</td> <td></td> </tr> </table>	DESIGNER/DRAFTER:	MC	CHECKED BY:	JRH/DSG	SCALE AS NOTED		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>SIGNATURE/BLOCK:</p> <p><i>Mary E. Baker</i></p> <p>OFFICE OF ENGINEERING</p>	<p>PROJECT TITLE:</p> <p>MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS</p>	<p>TOWN:</p> <p>WESTPORT/FAIRFIELD</p> <p>DRAWING TITLE:</p> <p>STAGE CONSTRUCTION BRIDGE NO. 00736 REDDING RD</p>	<p>PROJECT NO.</p> <p>158-211</p> <p>DRAWING NO.</p> <p>S-47</p> <p>SHEET NO.</p> <p>02.01.48</p>																						
DESIGNER/DRAFTER:	MC																																
CHECKED BY:	JRH/DSG																																
SCALE AS NOTED																																	
<table border="1"> <tr> <td>REV.</td> <td>DATE</td> <td>REVISION DESCRIPTION</td> <td>SHEET NO.</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	REV.	DATE	REVISION DESCRIPTION	SHEET NO.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<p>Plotted Date: 8/1/2016</p> <p>Filename: ...\\SB-158-211-Brg00736-Stage-Construction.dgn</p>				
REV.	DATE	REVISION DESCRIPTION	SHEET NO.																														
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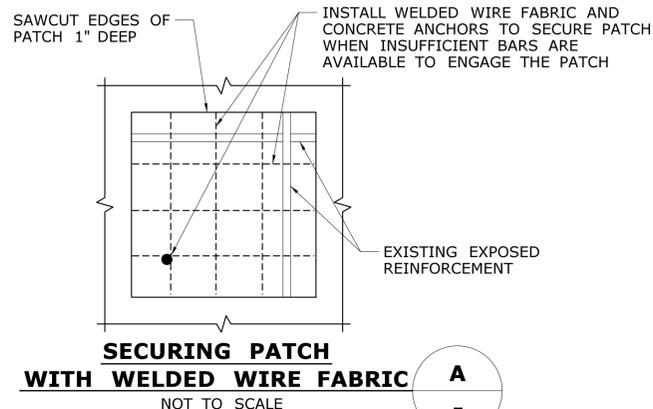
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/27/2016	DESIGNER/DRAFTER: MC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211
					CHECKED BY: JRH/DSG		APPROVED BY: <i>Mary E. Baker</i>	BRIDGE NO. 00736	DRAWING NO. S-48	SHEET NO. 02.01.49
					SCALE AS NOTED	Filename: ...SB-158-211_Brg00736_Excavation_Limits.dgn				

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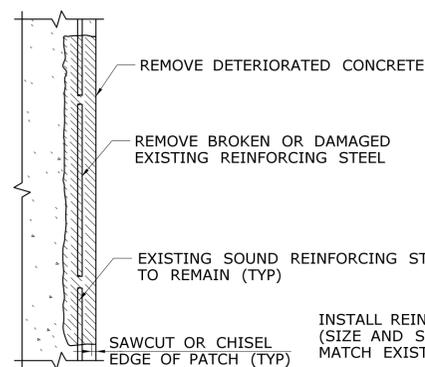
DELINEATE AND REMOVE AREAS OF UNSOUND CONCRETE



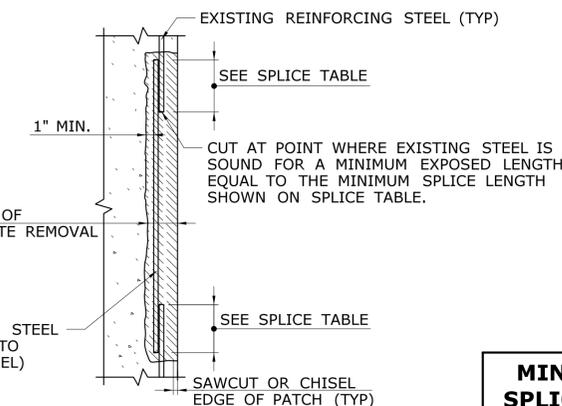
FLOWCHART TO DETERMINE TYPE OF CONCRETE REPAIR



SECURING PATCH WITH WELDED WIRE FABRIC
NOT TO SCALE



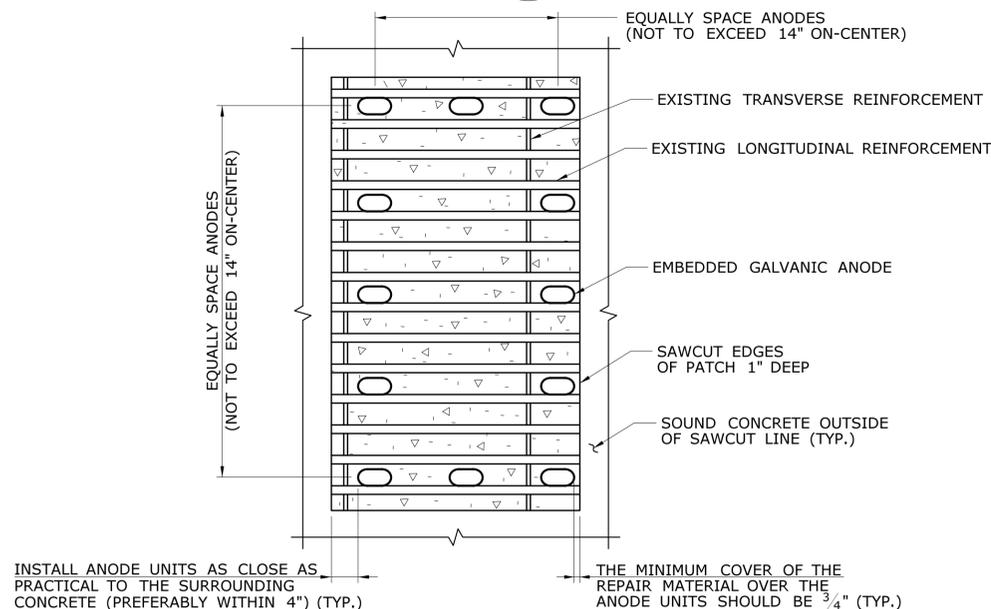
TYPICAL SECTION DAMAGED REINFORCING



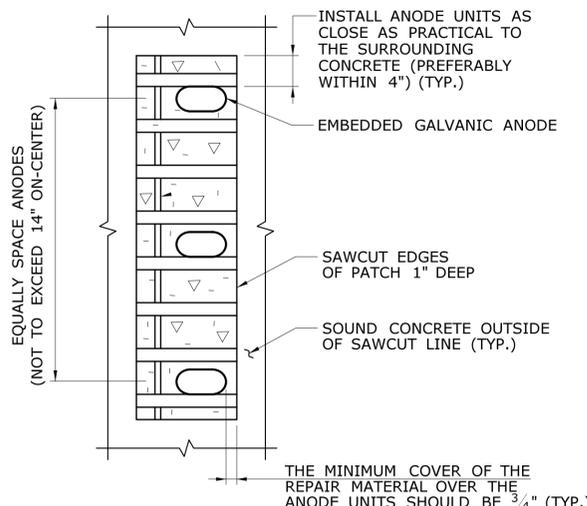
TYPICAL SPLICE DETAIL

MINIMUM LAP SPLICE LENGTHS	
BAR SIZE	MIN. SPLICE LENGTH
#4	1'-10"
#5	2'-3"
#6	2'-9"
#7	3'-3"
#8	3'-8"

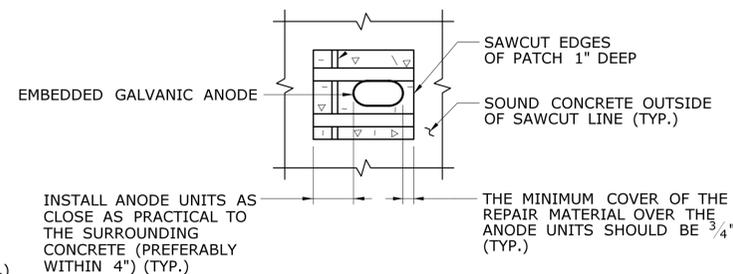
REINFORCING REPAIR DETAIL
NOT TO SCALE



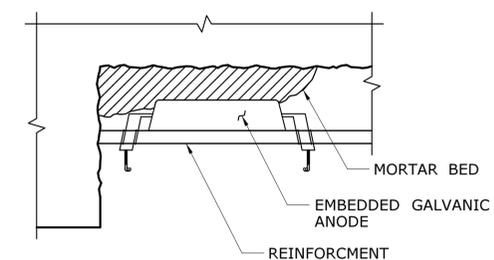
ANODE PLACEMENT - LARGE RECTANGULAR-TYPE PATCH



ANODE PLACEMENT - NARROW-TYPE PATCH



ANODE PLACEMENT - SMALL PATCH



DETAIL - ANODES IN CONCRETE REPAIRS
NOT TO SCALE

INSTALLATION OF EMBEDDED GALVANIC ANODES
NOT TO SCALE

NOT TO SCALE

CONCRETE REPAIR NOTES:

THE ENGINEER WILL DETERMINE THE LOCATIONS OF UNSOUND OR DETERIORATED CONCRETE TO BE REPAIRED. THE METHOD USED TO DELINEATE AREAS OF CONCRETE TO BE REPAIRED SHALL NOT PERMANENTLY MARK THE CONCRETE, LEAVE ANY RESIDUE AFTER REMOVAL, OR REQUIRE HARSH CHEMICALS TO REMOVE.

THE CONTRACTOR SHALL REMOVE THE DETERIORATED CONCRETE IN ACCORDANCE WITH THE GUIDELINES SET IN THESE NOTES AND IN THE SPECIAL PROVISIONS AND THE ENGINEER WILL DETERMINE THE TYPE OF REPAIR REQUIRED FOR EACH AREA USING THE FLOWCHART ON THIS SHEET AS A GUIDELINE FOR REPAIR TYPES.

THE CONTRACTOR SHALL SUPPLY WHATEVER MEANS NECESSARY, INCLUDING BUT NOT LIMITED TO LADDERS, LIFTS AND TRAFFIC PROTECTION FOR THE ENGINEER TO SAFELY ACCESS VARIOUS AREAS FOR INSPECTION. THE COST OF PROVIDING ACCESS FOR THE INSPECTION IS INCLUDED IN THE GENERAL COST OF THE PROJECT.

CLASS "S" CONCRETE / CLASS "S" CONCRETE FOR HISTORIC BRIDGES (CLASS "S" TYPE)

THIS TYPE OF REPAIR SHALL BE USED WHERE THE REINFORCING BARS ARE SUFFICIENTLY EXPOSED TO ENGAGE AND ANCHOR THE PATCHING MATERIAL. CLASS "S" CONCRETE MAY BE USED FOR SMALLER AREAS LESS THAN FOUR SQUARE FEET WHERE THERE IS A SUFFICIENT TOTAL AREA TO JUSTIFY THE USE OF THIS MATERIAL AND WHERE THE PATCH CAN BE SECURELY ANCHORED BY THE REINFORCING.

OVERHEAD PATCHES SHALL BE A CLASS "S" TYPE UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND SHALL BE ANCHORED SECURELY TO THE REINFORCING BARS.

BEFORE APPLYING THE PATCHING MATERIAL, THE REINFORCING BARS SHALL BE BLAST CLEANED AND EMBEDDED GALVANIC ANODES INSTALLED.

REINFORCING BAR REPAIRS

REINFORCING WHICH IS DETERMINED BY THE ENGINEER TO BE IN NEED OF REPLACEMENT, SHALL BE REMOVED TO A POINT WHERE IT IS SOUND. THE PATCH SHALL EXTEND A SUFFICIENT DISTANCE BEYOND THIS POINT TO DEVELOP A SPLICE LENGTH SPECIFIED IN THE TABLE ON THIS SHEET.

EMBEDDED GALVANIC ANODES

ANODES ARE TO BE INSTALLED IN "CLASS 'S' CONCRETE", "CLASS 'S' CONCRETE FOR HISTORIC BRIDGES", AND "PARTIAL DEPTH PATCH" CONCRETE REPAIRS. THEIR PRIME PURPOSE IS TO PROTECT REINFORCING BARS THAT CROSS THE EDGES OF THE PATCH.

INSTALLATION OF ANODES SHALL BE AS DETAILED ON THIS PLAN AND PER THE RECOMMENDATIONS OF THE ANODE MANUFACTURER'S REPRESENTATIVE AND AS DIRECTED BY THE ENGINEER.

PLACE ANODES SUCH THAT THEY HAVE 2" CONCRETE COVER.

RESTRICTIONS

THE REMOVAL OF DETERIORATED CONCRETE SHALL PROCEED AS DIRECTED BY THE ENGINEER. IF THE REMOVAL OF DETERIORATED CONCRETE BECOMES EXCESSIVE, THE REMOVAL WORK SHALL BE STOPPED AT THAT LOCATION AND THE ENGINEER NOTIFIED IMMEDIATELY.

MAXIMUM HAMMER SIZE USED TO REMOVE DETERIORATED CONCRETE SHALL BE 15 POUNDS.

IF REMOVAL EXTENDS MORE THAN 1 1/2" BEHIND THE MAIN REINFORCING BARS, THE REMOVAL WORK SHALL BE STOPPED AND THE ENGINEER NOTIFIED IMMEDIATELY.

IF THE AREA OR DEPTH OF REMOVAL IS DEEMED TO BE EXCESSIVE, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED BEFORE CONTINUING REMOVAL WORK.

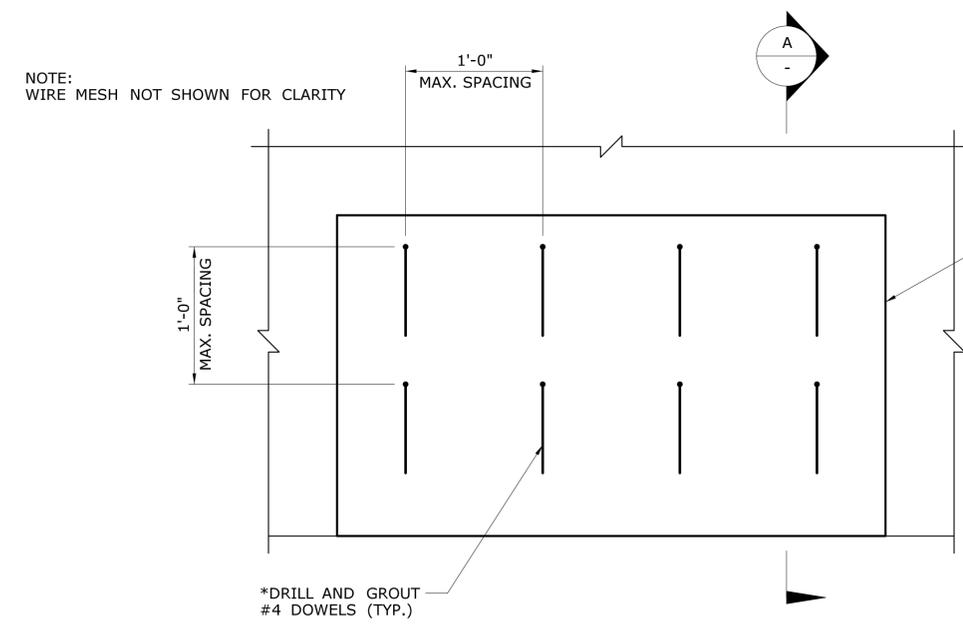
PAY ITEM NOTES

1. ANODES SHALL BE PAID FOR UNDER THE ITEM "EMBEDDED GALVANIC ANODES". THE COST OF THE MORTAR IS INCLUDED IN THE GENERAL COST OF THE EMBEDDED GALVANIC ANODES.
2. THE 1" DEEP SAW CUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE OF THE APPLICABLE REPAIR PAY ITEM.
3. REINFORCING BARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "DEFORMED STEEL BARS".

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.		DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: <i>Mary E. Baker</i>	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD	PROJECT NO. 158-211 DRAWING NO. S-49
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 8/3/2016	SCALE AS NOTED	FILENAME: ...SB-158-211-Typical Concrete Repair-Details.dgn		DRAWING TITLE: TYPICAL CONCRETE REPAIR DETAILS	SHEET NO. 02.01.50		

NOTES

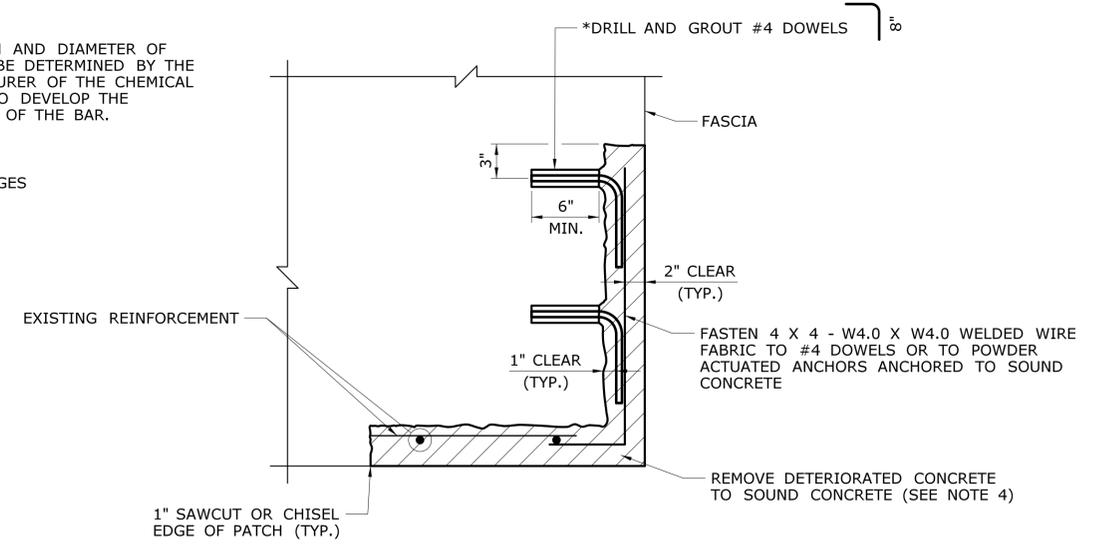
1. DEFORMED STEEL BARS SHALL BE PAID FOR UNDER THE ITEM "DEFORMED STEEL BARS".
2. WELDED WIRE FABRIC AND ANCHORS SHALL BE PAID FOR UNDER THE ITEM "DEFORMED STEEL BARS".
3. THE COST OF DRILLING AND GROUTING SHALL BE PAID FOR UNDER THE ITEM "DRILLING HOLES AND GROUTING DOWELS".
4. REMOVE SOUND CONCRETE AS REQUIRED TO 1" BEHIND PROPOSED DOWELS. TO BE INCLUDED FOR PAYMENT UNDER THE APPROPRIATE CLASS "S" REPAIR.



TYPICAL ELEVATION

* THE DEPTH AND DIAMETER OF HOLE TO BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHOR TO DEVELOP THE STRENGTH OF THE BAR.

SAWCUT OR CHISEL EDGES OF PATCH 1" DEEP



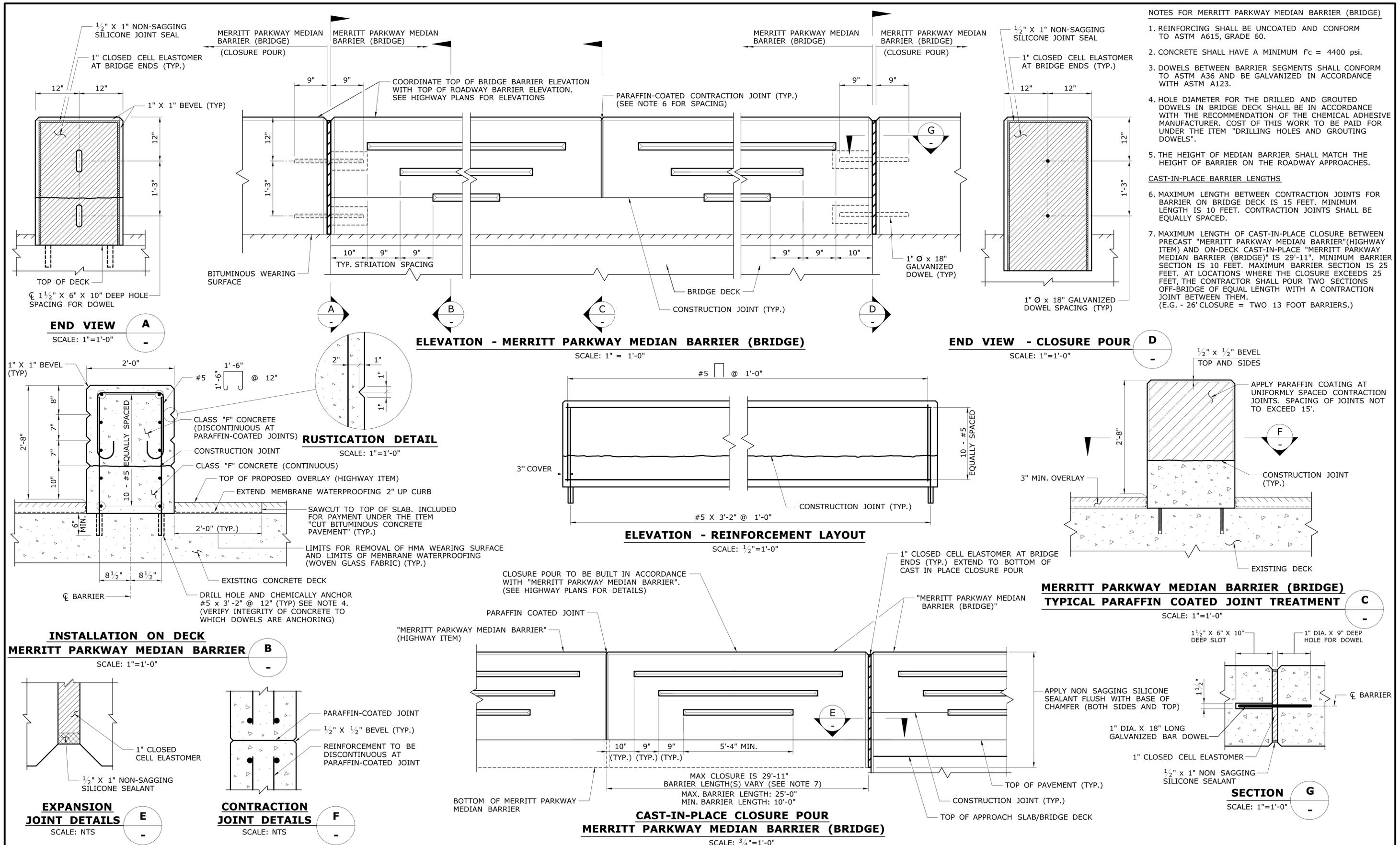
TYPICAL SECTION

THIS REPAIR DETAIL IS TO BE USED WHEN EXISTING REINFORCEMENT IS INSUFFICIENT OR NOT PRESENT AFTER REMOVAL OF DETERIORATED CONCRETE.

CLASS "S" CONCRETE REPAIR WITHOUT EXISTING REINFORCEMENT

NOT TO SCALE

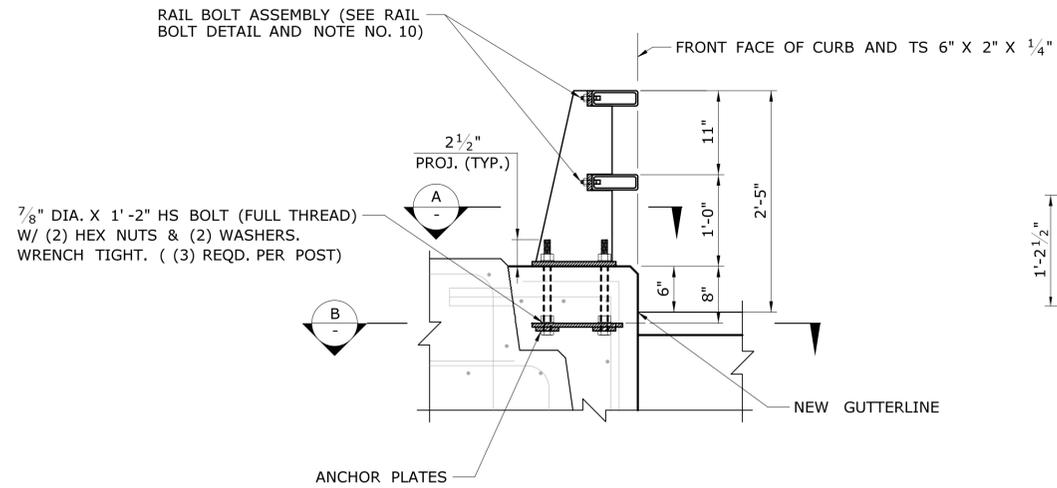
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SPM/MC CHECKED BY: JRH/DSG SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...SB-158-211_Typical_Concrete_Repair_Details_3.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: TYPICAL CONCRETE REPAIR DETAILS 3	PROJECT NO. 158-211 DRAWING NO. S-51 SHEET NO. 02.01.52	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/26/2016				



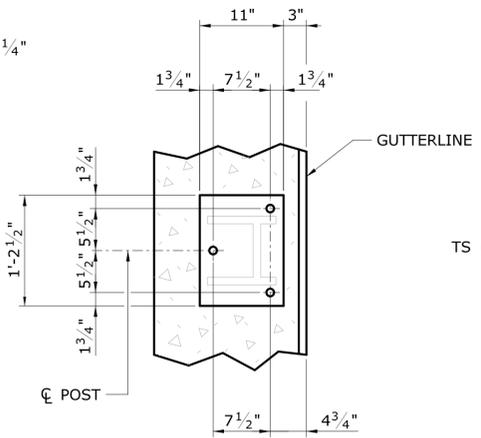
NOTES FOR MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)

1. REINFORCING SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60.
 2. CONCRETE SHALL HAVE A MINIMUM $f_c = 4400$ psi.
 3. DOWELS BETWEEN BARRIER SEGMENTS SHALL CONFORM TO ASTM A36 AND BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
 4. HOLE DIAMETER FOR THE DRILLED AND GROUTED DOWELS IN BRIDGE DECK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE CHEMICAL ADHESIVE MANUFACTURER. COST OF THIS WORK TO BE PAID FOR UNDER THE ITEM "DRILLING HOLES AND GROUTING DOWELS".
 5. THE HEIGHT OF MEDIAN BARRIER SHALL MATCH THE HEIGHT OF BARRIER ON THE ROADWAY APPROACHES.
- CAST-IN-PLACE BARRIER LENGTHS**
6. MAXIMUM LENGTH BETWEEN CONTRACTION JOINTS FOR BARRIER ON BRIDGE DECK IS 15 FEET. MINIMUM LENGTH IS 10 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED.
 7. MAXIMUM LENGTH OF CAST-IN-PLACE CLOSURE BETWEEN PRECAST "MERRITT PARKWAY MEDIAN BARRIER"(HIGHWAY ITEM) AND ON-DECK CAST-IN-PLACE "MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)" IS 29'-11". MINIMUM BARRIER SECTION IS 10 FEET. MAXIMUM BARRIER SECTION IS 25 FEET. AT LOCATIONS WHERE THE CLOSURE EXCEEDS 25 FEET, THE CONTRACTOR SHALL POUR TWO SECTIONS OFF-BRIDGE OF EQUAL LENGTH WITH A CONTRACTION JOINT BETWEEN THEM. (E.G. - 26' CLOSURE = TWO 13 FOOT BARRIERS.)

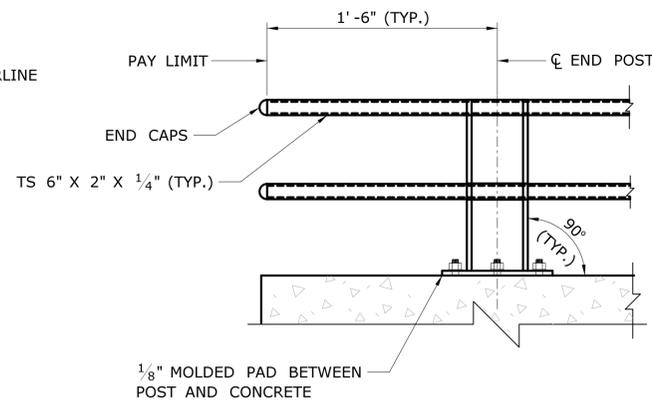
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...SB-158-211.MP.Median.Barrier.(Bridge).dgn	SIGNATURE/ BLOCK: <i>Mary E. Baker</i> APPROVED BY:	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: MERRITT PARKWAY MEDIAN BARRIER (BRIDGE)	PROJECT NO. 158-211 DRAWING NO. S-52 SHEET NO. 02.01.53
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/26/2016			



TYPICAL ASSEMBLY DETAIL
(SHOWN NEAR CL POST) (TYP. CURB BUILDOUT SHOWN)
SCALE: 1" = 1'

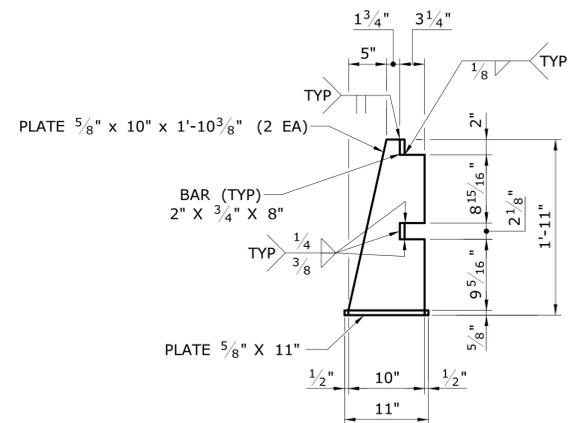


PLAN - BASE PLATE
(ANCHOR BOLTS, RAILS, AND RAIL BOLTS NOT SHOWN)
SCALE 1" = 1'

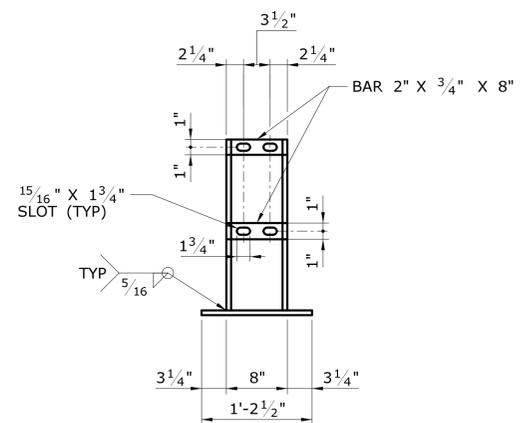


ELEVATION AT RAIL TERMINATION
SCALE 1" = 1'

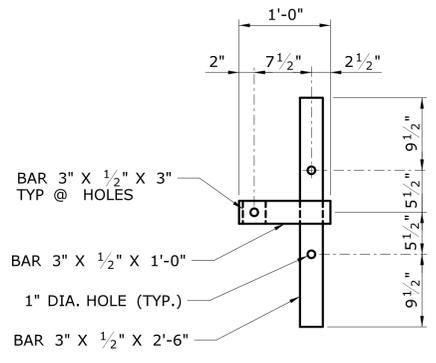
- NOTES:
1. THE STRUCTURAL-TUBE RAILING SHALL BE MADE FROM STRUCTURAL IN ACCORDANCE WITH ASTM A500 GRADE B OR ASTM A501.
 2. THE POSTS AND ANCHOR PLATES SHALL BE MADE FROM STRUCTURAL STEEL IN ACCORDANCE WITH ASTM A709 GRADE 36.
 3. THE STRUCTURAL-TUBE RAILING, POSTS, AND ANCHOR PLATES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
 4. RAIL POST ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A449 (120 KSI MINIMUM TENSILE STRENGTH) OR F1554 GRADE 105. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563 GRADE B, HEX. WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F436.
 5. OTHER BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563 GRADE B, HEX. WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F436.
 6. ANCHOR BOLTS, OTHER BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIP GALVANIZED TO THE REQUIREMENTS OF ASTM A153.
 7. ENSURE THE EXPANSION SPLICE IS LOCATED IN THE RAILING PANEL WHICH PASSES OVER THE BRIDGE EXPANSION JOINT AS INDICATED ON THE PLAN.
 8. SLOTS MAY BE OMITTED IN STANDARD SLEEVES WHERE BOLTS ARE REQUIRED ON ONE SIDE OF SPLICE ONLY.
 9. AT POST LOCATIONS, DRILL TWO 1 1/16" DIA. HOLES IN THE RAILS TO RECEIVE RAIL BOLTS (SHOP OR FIELD). SEE POST DETAILS FOR HOLE SPACING.
 10. BEFORE INSTALLING RAILS, PAINT CUT, DRILLED, OR OTHERWISE DAMAGED SURFACE AREAS OF THE RAILING COMPONENTS WITH TWO COATS OF ZINC RICH PAINT CONFORMING TO THE REQUIREMENTS OF ASTM A780.
 11. AFTER INSTALLING THE RAILS, PAINT EXPOSED BOLT THREADS WITH TWO COATS OF ZINC RICH PAINT CONFORMING TO THE REQUIREMENTS OF ASTM A780.
 12. RAIL POST SPACING SHOWN ON PLANS FOR EACH PARTICULAR BRIDGE.
 13. LENGTH OF RAIL ELEMENTS SHALL BE CONTINUOUS OVER A MINIMUM OF FOUR RAIL POSTS WHEREVER POSSIBLE AND IN NO CASE LESS THAN TWO.



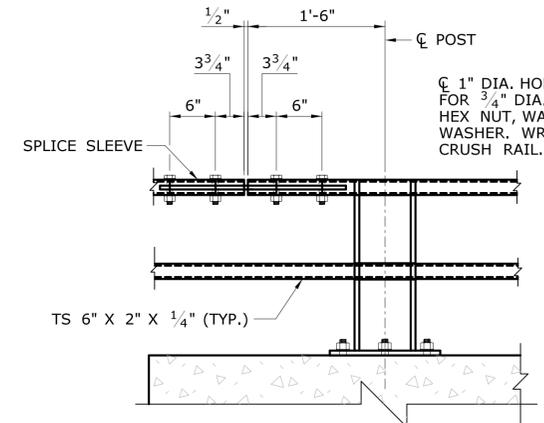
SIDE VIEW
SCALE: 1" = 1'



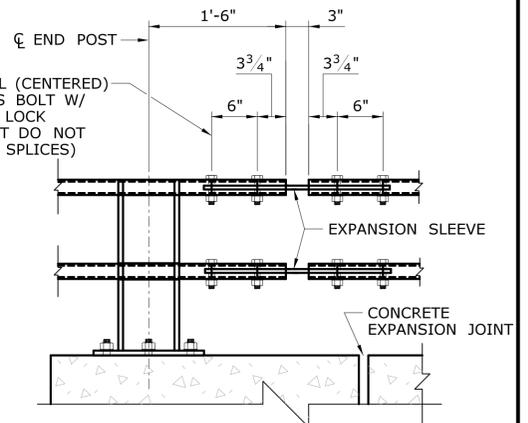
FRONT VIEW
SCALE: 1" = 1'



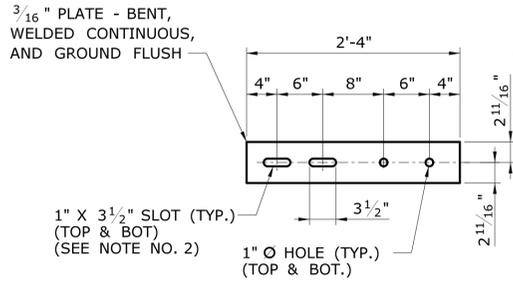
SECTION: ANCHOR PLATES
SCALE: 1" = 1'



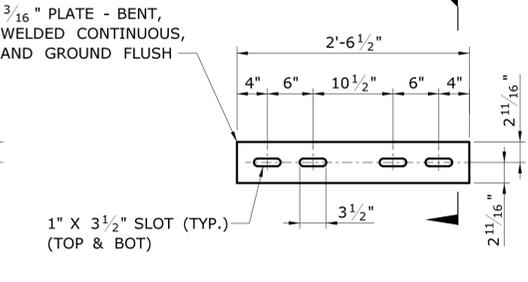
DOUBLE-BOLTED SPLICE
(TOP OR BOTTOM RAIL)
SCALE 1" = 1'



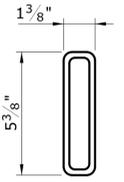
EXPANSION SPLICE
(TOP AND BOTTOM RAIL)
SCALE 1" = 1'



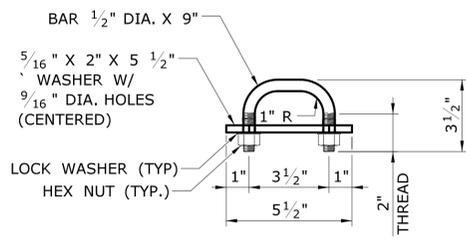
SPLICE SLEEVE
SCALE: 1" = 1'



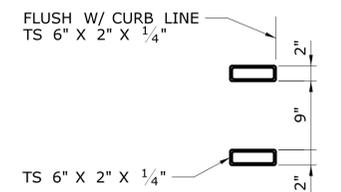
EXPANSION SLEEVE
SCALE 1" = 1'



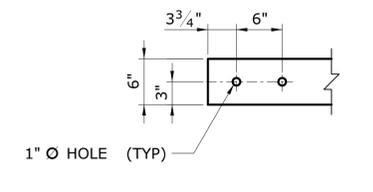
SLEEVE SECTION (END VIEW)
SCALE 3" = 1'



RAIL BOLT DETAIL
SCALE: 3" = 1'



RAIL SECTION
SCALE: 1" = 1'



PLAN: TYPICAL RAIL END DETAIL
SCALE: 1" = 1'

DESIGNER/DRAFTER: MC CHECKED BY: JRH/DSG SCALE AS NOTED		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\SB-158-211_TwoTubeBridgeRailing_Details.dgn		SIGNATURE/BLOCK: <i>Mary E. Baker</i> OFFICE OF ENGINEERING APPROVED BY:		PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS		TOWN: WESTPORT/FAIRFIELD DRAWING TITLE: TWO TUBE RETROFIT BRIDGE RAILING DETAILS		PROJECT NO.: 158-211 DRAWING NO.: S-53 SHEET NO.: 02.01.54	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/26/2016							