VOLUME 02, SUBSET 02 - STRUCTURES
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-0	INDEX OF DRAWINGS		
S-1 - S-4	EXISTING PLANS - BRIDGE NO. 00726 - MP UNDER NEWTOWN TURNPIKE		
S-5 - S-25	EXISTING PLANS - BRIDGE NO. 05763 - MP OVER ROUTE 33 (WILTON ROAD)		
S-26 - S-30	EXISTING PLANS - BRIDGE NO. 00729 - MP UNDER CLINTON AVENUE		
S-31 - S-45	EXISTING PLANS - BRIDGE NO. 00730 - MP OVER ROUTE 57 (WESTON ROAD)		
S-46 - S-60	EXISTING PLANS - BRIDGE NO. 00731 - MP OVER EASTON ROAD		
S-61 - S-64	EXISTING PLANS - BRIDGE NO. 00732 - MP UNDER NORTH AVENUE		
S-65 - S-68	EXISTING PLANS - BRIDGE NO. 00733 - MP OVER BAYBERRY LANE		
S-69 - S-71	EXISTING PLANS - BRIDGE NO. 00734 - MP OVER CROSS HIGHWAY		
S-72 - S-75	EXISTING PLANS - BRIDGE NO. 00735 - MP UNDER MERWINS LANE		
S-76 - S-79	EXISTING PLANS - BRIDGE NO. 00736 - MP UNDER REDDING ROAD		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Mary E. Baker, P.E.
2016.08.08
15:21:22-04'00'

TRANSPORTATION PRINCIPAL ENGINEER

VOLUME 02 SUBSETS

SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	BRIDGE PLANS	54
02	REHAB/ORIGINAL BRIDGE PLANS	80
03	TYPICAL BREAKAWAY SIGN SUPPORTS	9

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: 7/27/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\02-03_S0_Master_Title_Sheet.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

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

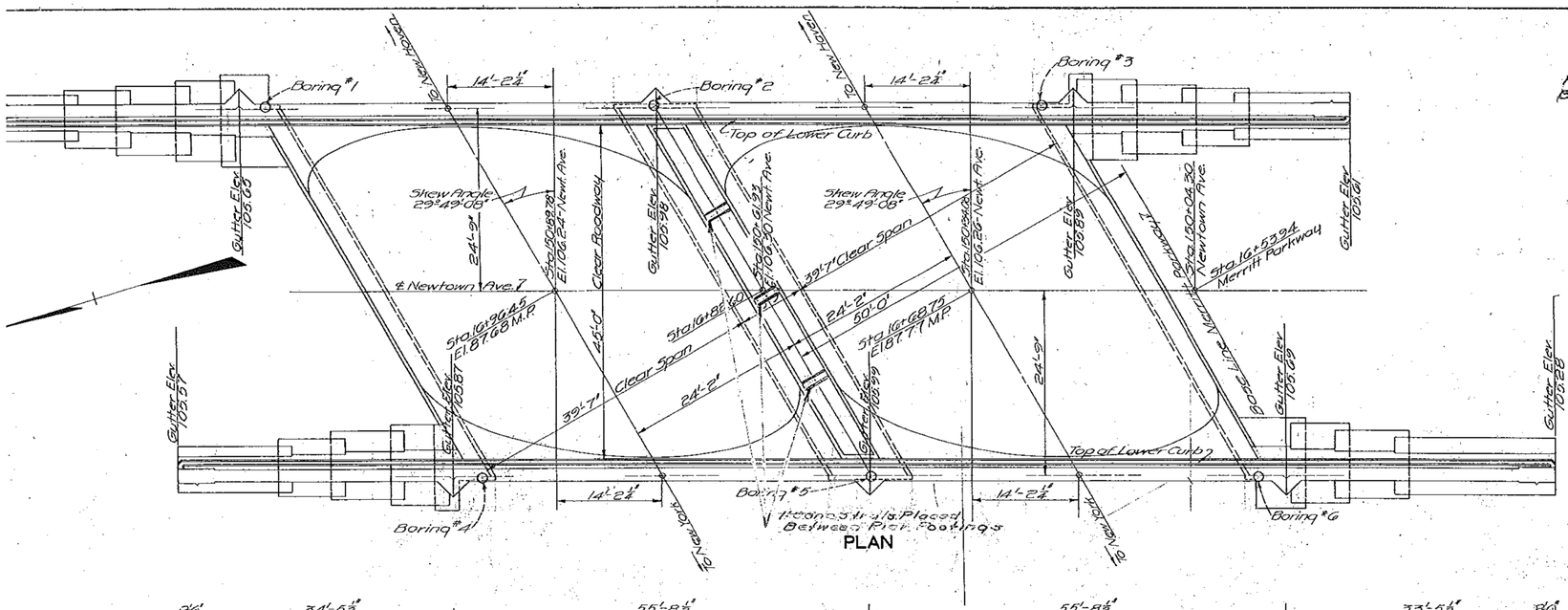
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: INDEX OF DRAWINGS

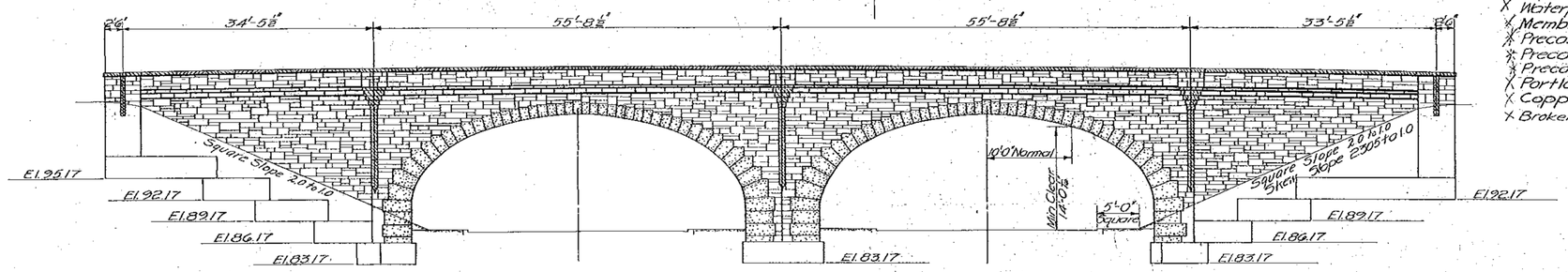
PROJECT NO. 158-211
DRAWING NO. S-0
SHEET NO. 02.02.01

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.			1938		13	16

Revisions in Blue ink to show Bridge as Constructed

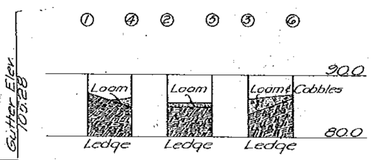


PLAN



WEST ELEVATION

BORING DATA



QUANTITIES

Unclassified Excavation	880	C.Y.
Class A (1:2:4) Concrete	1070	C.Y.
½" Cork or Rubber Exp. Jt. Filler	345	S.F.
Deformed Steel Bars	129200	Lbs.
Waterproof Painting	430	S.Y.
Membrane Waterproofing	670	S.Y.
Precast Ashlar Units	4930	S.F.
Precast Ring Stones	430	C.F.
Precast Stone Trim	380	C.F.
Portland Cement	1620	Bbls.
Copper Flashing	460	Lbs.
Broken Stone (for drains)	65	Tons

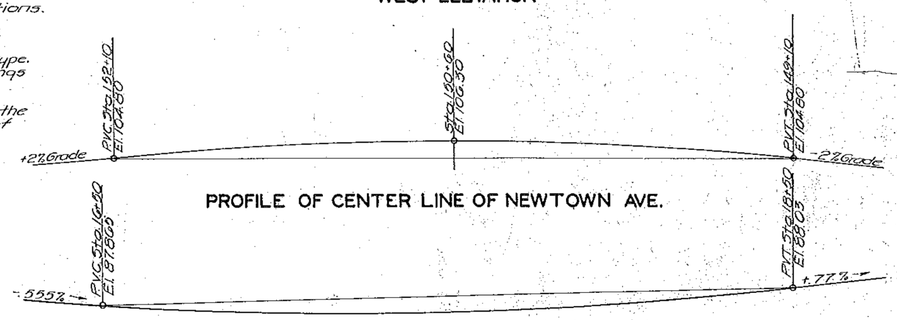
LEGEND

Precast Ashlar Units

Precast Ring Stone

Precast Stone Trim

NOTES:—
d for H-20 Loading - Conn. State Highway Dept. Specifications.
ified Excavation to include only that required after
way excavation (including side slopes) has been completed.
concrete to be used throughout.
ing Steel to consist of deformed bars of an approved type.
oof Paint to be used on back of frame legs above footings
on backs of wingwalls from gutter line to top of footings.
he Waterproofing to be placed as shown on plans.
ing of arch to be placed in such a manner as to keep the
rial at approximately equal heights on both sides of
arch, and shall be thoroughly tamped in layers.
ework and forms on inside of each arch not to be
ved until backfilling is complete to sub grade.
facing and ring stones shall be precast
(See special provisions & General Specifications)
ies are approximate only and do not relieve the
ractor of the responsibility of checking them in
paring his bid.
ractor for precast facing is to submit all necessary
drawings and setting plan for approval.
tones in projecting courses to have anchor loops
deformed steel bars, of intermediate grade,
shed by Cast Stone Manufacturer.
conduit for telephone cables will be furnished
N.E. Tel. Co. delivered at the bridge site.
ts to be installed by the Contractor as directed
own on the plans.
o be included in the general cost of the contract;
e will be no direct payment therefor. 3-5½" Conduits.



PROFILE OF CENTER LINE OF NEWTOWN AVE.

PROFILE OF CENTER LINE OF MERRITT PKWY

APPROVED June 29 1938
J. F. Willis
ENGINEER OF BRIDGE DESIGN
APPROVED July 25 1938
R. R. Lummis
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED 1938
DEPUTY HIGHWAY COMMISSIONER

Revised 7-12-38 G.L.D.
BRIDGE SHEET 1 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
UNDER
NEWTOWN AVE.
REINF. CONC. TWIN RIGID FRAME
GENERAL PLAN

SCALES 1/8" = 1'-0"
MADE BY E.J.T. Tr. E.C.S. DATE 12-7-37
CHECKED BY J.W.C. DATE 5-12-38
APPROVED DATE
WO. NO. 180-69
SHEET NO. OF

180 69

STANDARD No. 1

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

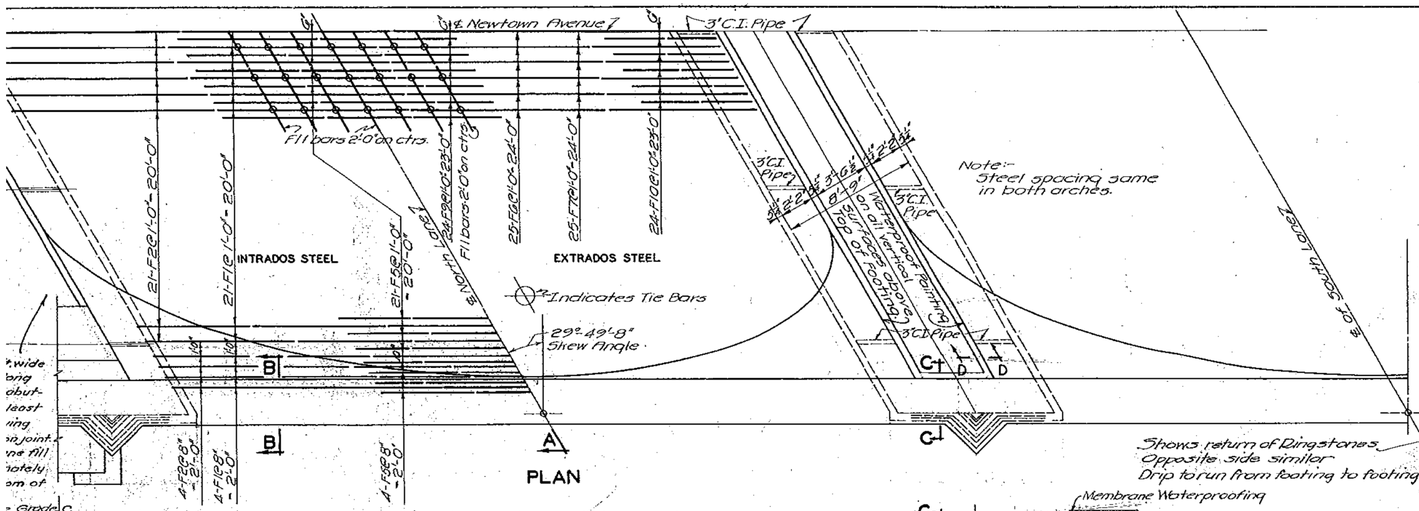
Filename: ...\1_SB_158-211_Brg00726_OriginalDrawings_General_Plan.dgn

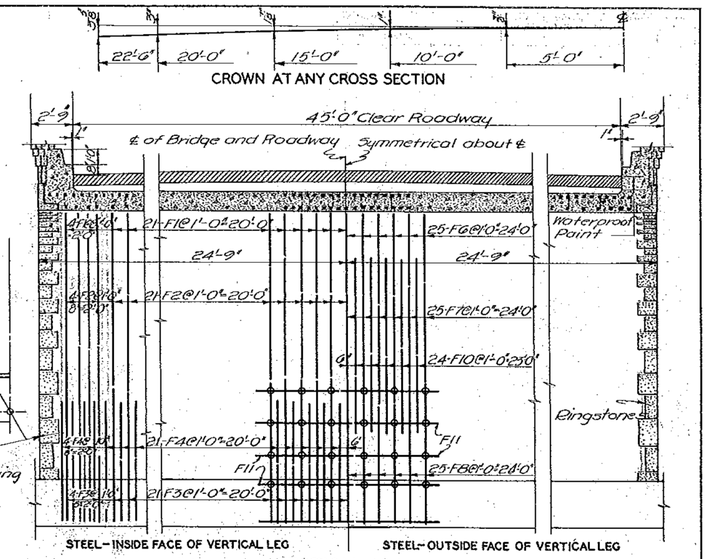
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Boda

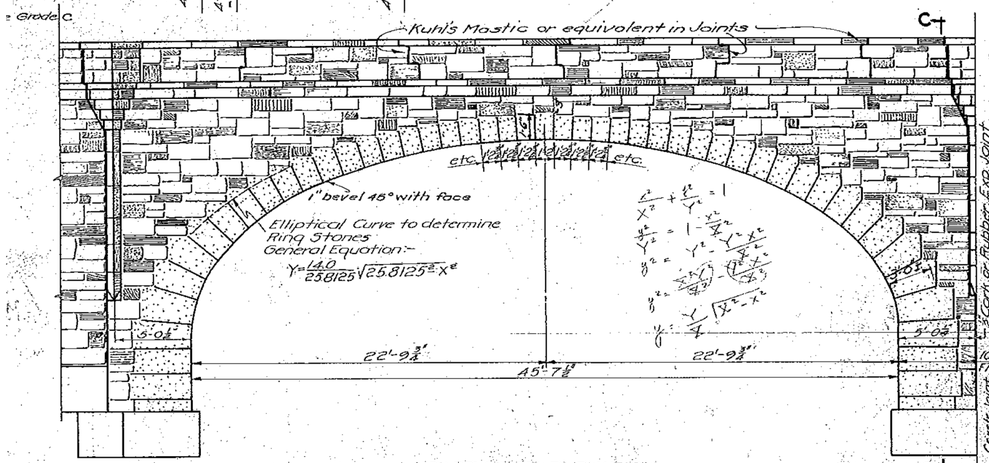
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

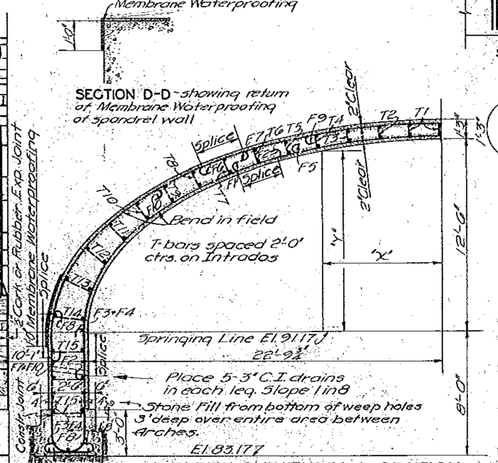
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00726 NEWTOWN TURNPIKE

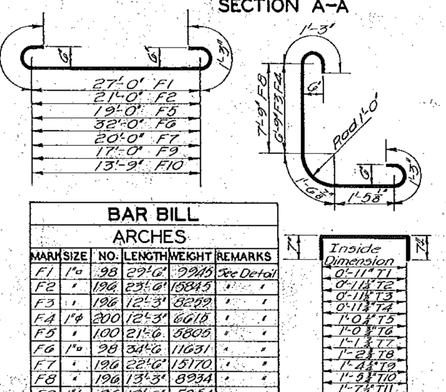
PROJECT NO. 158-211
DRAWING NO. S-1
SHEET NO. 02.02.02

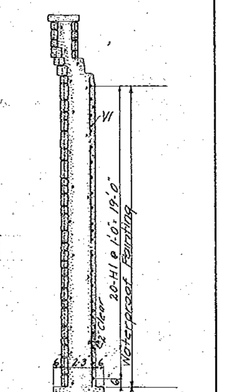


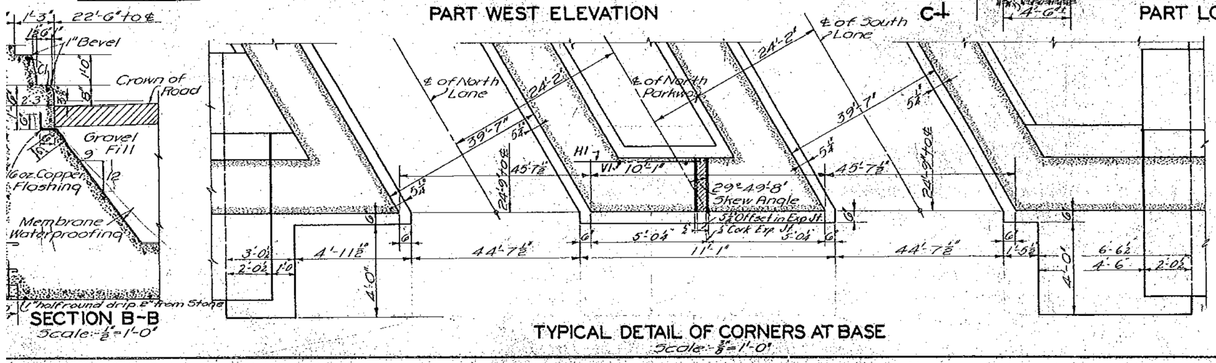












Coordinates for ARCH RIB		
X	Y Intrados	Y Extrados
2'-0"	12'-5 7/16"	13'-8 1/16"
4'-0"	12'-3 11/16"	13'-6 13/16"
6'-0"	12'-0 3/4"	13'-4 1/16"
8'-0"	11'-8 3/4"	13'-0 1/16"
10'-0"	11'-2 11/16"	12'-7 5/16"
12'-0"	10'-7 7/16"	12'-1 3/4"
14'-0"	9'-10 3/8"	11'-5 7/16"
16'-0"	8'-10 13/16"	10'-7 3/8"
18'-0"	7'-8 3/8"	9'-8"
20'-0"	6'-0 3/4"	8'-5 3/8"
21'-0"	4'-10 3/8"	
22'-0"	3'-3 11/16"	6'-9 3/8"
22'-6"	2'-0 3/4"	
24'-0"		4'-1 7/16"
24'-6"		3'-5 3/4"
25'-0"		2'-1 3/8"

BAR BILL
ARCHES

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
F1	1" ⊡	98	27'-6"	2945	See Detail
F2	"	196	23'-6"	6845	" "
F3	"	196	12'-3"	2209	" "
F4	1 1/4"	200	12'-3"	6618	" "
F5	"	100	21'-6"	5805	" "
F6	1" ⊡	98	34'-6"	11631	" "
F7	"	196	22'-6"	15170	" "
F8	"	196	13'-3"	8934	" "
F9	1 1/4"	96	19'-6"	5054	" "
F10	"	192	16'-3"	8424	" "
F11	5/8" ⊡	304	22'-0"	18219	Straight
T1	5/8" ⊡	144	2'-1"	114	See Detail
T2	"	96	2'-2"	79	" "
T3	"	96	2'-2"	79	" "
T4	"	96	2'-2"	79	" "
T5	"	96	2'-3"	82	" "
T6	"	96	2'-3"	82	" "
T7	"	96	2'-4"	85	" "
T8	"	96	2'-5"	88	" "
T9	"	96	2'-7"	94	" "
T10	"	96	2'-8"	97	" "
T11	"	96	2'-10"	103	" "
T12	"	96	3'-0"	109	" "
T13	"	96	3'-3"	119	" "
T14	"	96	3'-4"	122	" "
T15	"	288	3'-4"	365	" "
H1	3/8" ⊡	40	3'-6"	233	Straight
V1	"	4	20'-0"	85	
Total				115,946	

00726

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
UNDER
NEWTOWN AVE.
REINF. CONC. TWIN RIGID FRAME
ARCH DETAILS

SCALES 1/4" = 1'-0" or as shown
W.O. NO. 180-69
MADE BY F.J.T. Jr. E.C.S. DATE 2-14-37
CHECKED BY J.W.C. DATE 3-12-38
APPROVED J. H. Willis DATE 6-27-37
SHEET NO. 14 OF 16

180 69

88 09

STANDARD No. 14

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\2_SB_158-211_Brg00726_OriginalDrawings_Frame.dgn

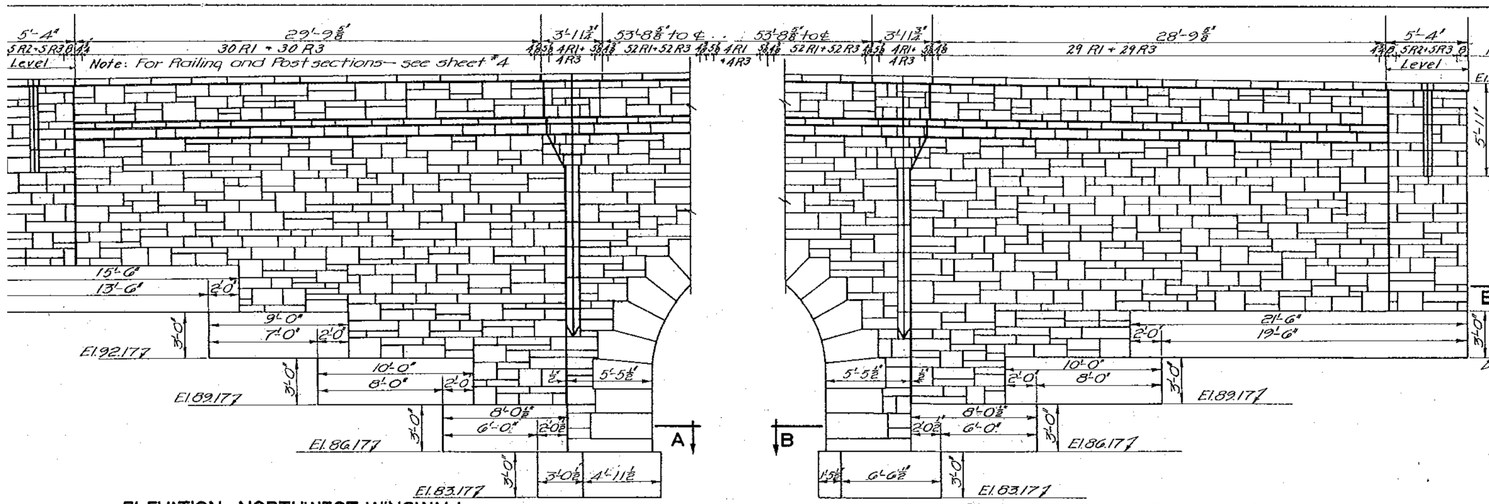
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00726 NEWTOWN TURNPIKE

PROJECT NO. 158-211
DRAWING NO. S-2
SHEET NO. 02.02.03

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.			1988		15	16

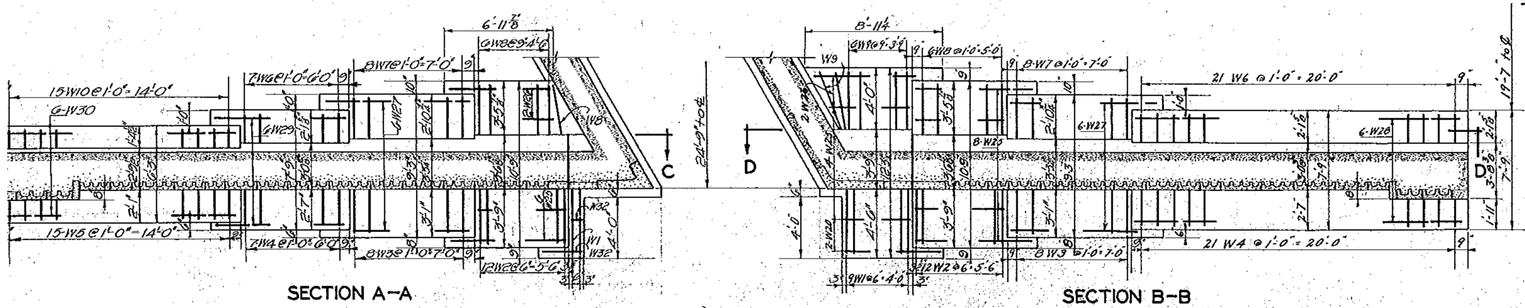


ELEVATION—NORTHWEST WINGWALL

SOUTHEAST WINGWALL SAME—EXCEPT AS NOTED

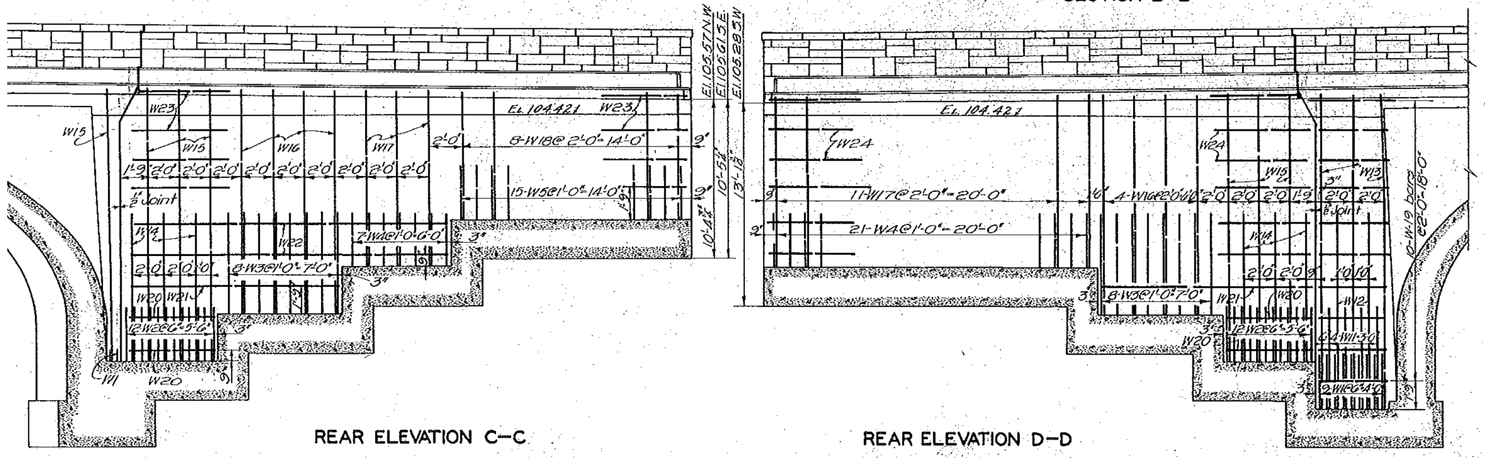
ELEVATION—SOUTHWEST WINGWALL

TYPICAL WING SECT.



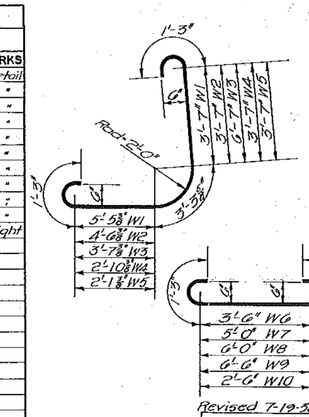
SECTION A—A

SECTION B—B



BAR BILL
WING WALLS

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
W1	5/8 φ	22	14'-10"	675	See Detail
W2	3/4 φ	48	13'-11"	1016	" "
W3	"	32	16'-0"	778	" "
W4	5/8 φ	42	12'-3"	545	" "
W5	1/2 φ	44	11'-6"	344	" "
W6	5/8 φ	42	6'-0"	267	" "
W7	3/4 φ	32	7'-6"	365	" "
W8	5/8 φ	26	8'-6"	457	" "
W9	"	16	9'-0"	298	" "
W10	3/4 φ	44	5'-0"	150	" "
W11	5/8 φ	8	6'-6"	79	Straight
W12	"	4	12'-6"	76	"
W13	"	6	20'-3"	185	"
W14	"	12	9'-6"	173	"
W15	"	14	17'-3"	367	"
W16	"	16	14'-3"	347	"
W17	5/8 φ	21	11'-0"	245	"
W18	1/2 φ	23	8'-0"	125	"
W19	"	20	4'-6"	61	"
W20	"	12	5'-9"	47	"
W21	"	4	13'-6"	37	"
W22	"	6	20'-6"	84	"
W23	"	8	33'-6"	193	"
W24	"	10	34'-6"	235	"
W25	"	36	7'-6"	184	"
W26	"	8	6'-6"	35	"
W27	"	24	9'-6"	155	"
W28	"	6	21'-0"	86	"
W29	"	18	8'-6"	104	"
W30	"	12	15'-0"	122	"
W31	"	6	14'-0"	57	"
W32	"	4	2'-9"	7	"
Total				7899	



Revised 7-19-88 G.I.D.

BRIDGE SHEET 3 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT

MERRITT PARKWAY
UNDER
NEWTON AVE.

REINF. CONC. TWIN RIGID FRAME
WINGWALL DETAILS

SCALES 1/4"=1'-0"
MADE BY E.J.T. Jr. E.C.S. DATE 12-21-87
CHECKED BY J.W.G. DATE 3/1/88
APPROVED DATE 6-27-88

W.O. NO. 180-69
SHEET NO. ___ OF ___

180 69 STANDARD NO. 15

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\3_SB_158-211_Brg00726_OriginalDrawings_Wingwalls.dgn

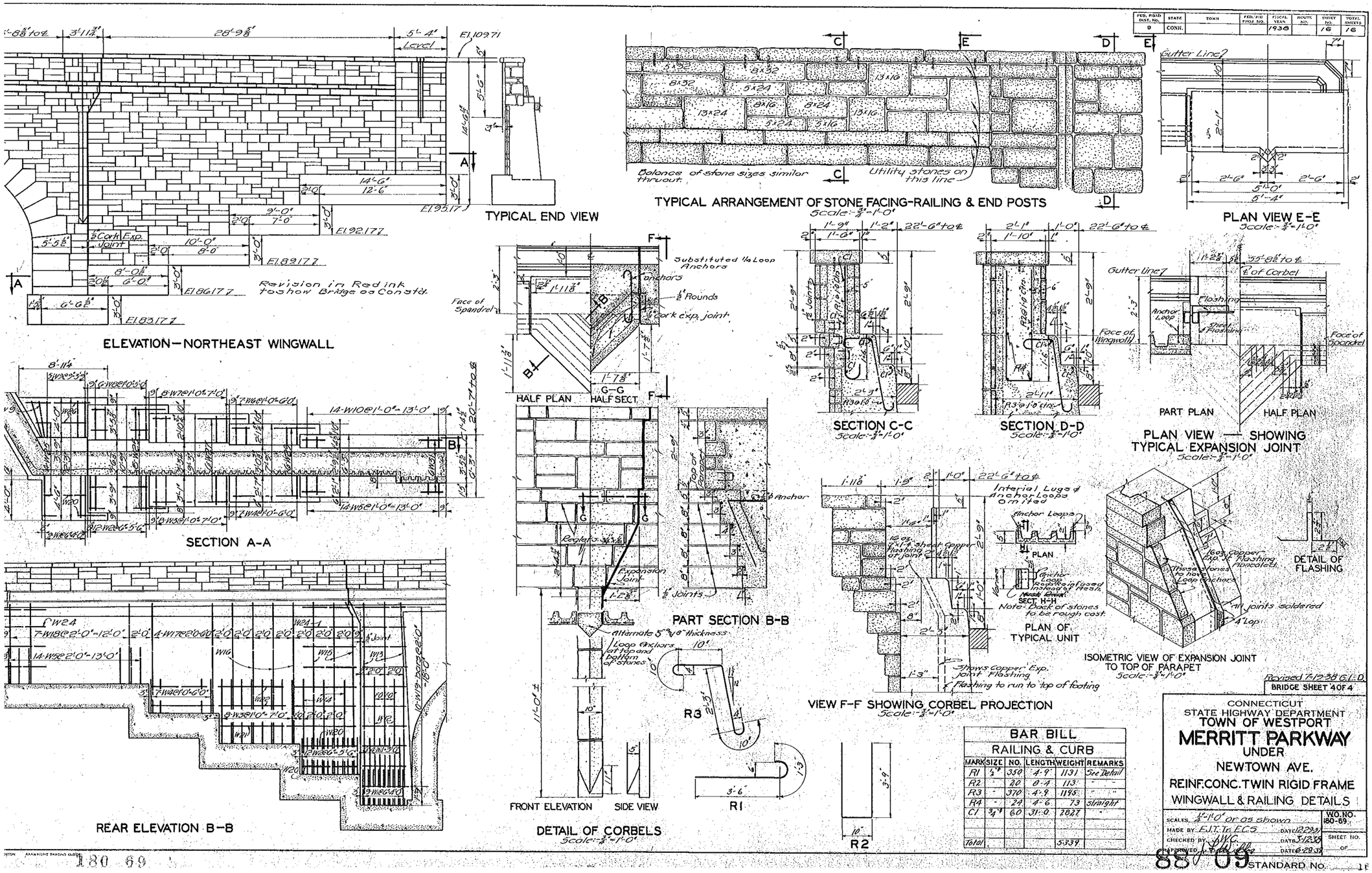
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00726 NEWTOWN TURNPIKE

PROJECT NO. 158-211
DRAWING NO. S-3
SHEET NO. 02.02.04



FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.			1938		16	16

BAR BILL

RAILING & CURB

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
R1	1/2"	350	4'-9"	1131	See Detail
R2	-	20	8'-4	113	- -
R3	-	370	4'-9	1195	- -
R4	-	24	4'-6	73	straight
C1	3/4"	60	31'-0	2827	-
Total				5339	

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

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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\4_SB_158-211_Brg00726_OriginalDrawings_Railing.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: EXISTING PLANS BRIDGE NO. 00726 NEWTOWN TURNPIKE

PROJECT NO. 158-211

DRAWING NO. S-4

SHEET NO. 02.02.05

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 158 (10-88)

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN	WESTPORT	—	158-143	1990	15	75-1	187

Revised Sheet

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 construed 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 Engineer of Bridges and Structures.

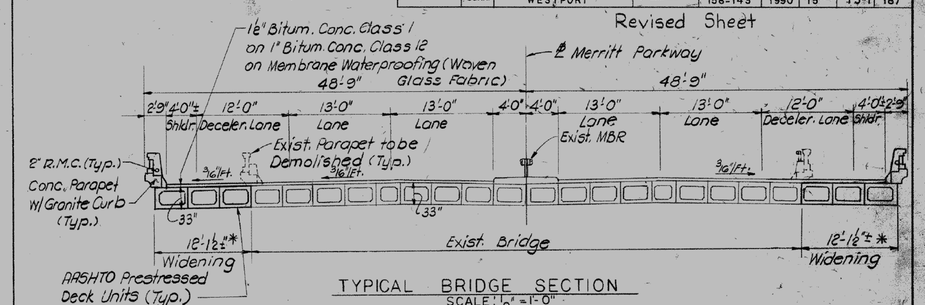
Component or Detail	Bridge Sheet Reference
—	—
—	—
—	—

CONCRETE DISTRIBUTION

Superstructure	35 C.Y.
Substructure	454 C.Y.
Footings	245 C.Y.
TOTAL	734 C.Y.

INSPECTION OF FIELD WELDS

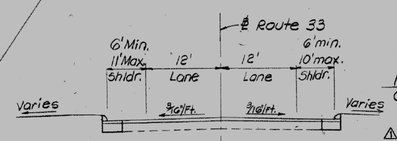
METHOD	UNIT	QUANTITY
Ultrasonic	In.	—
Magnetic Particle	L.F.	—



TYPICAL BRIDGE SECTION

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

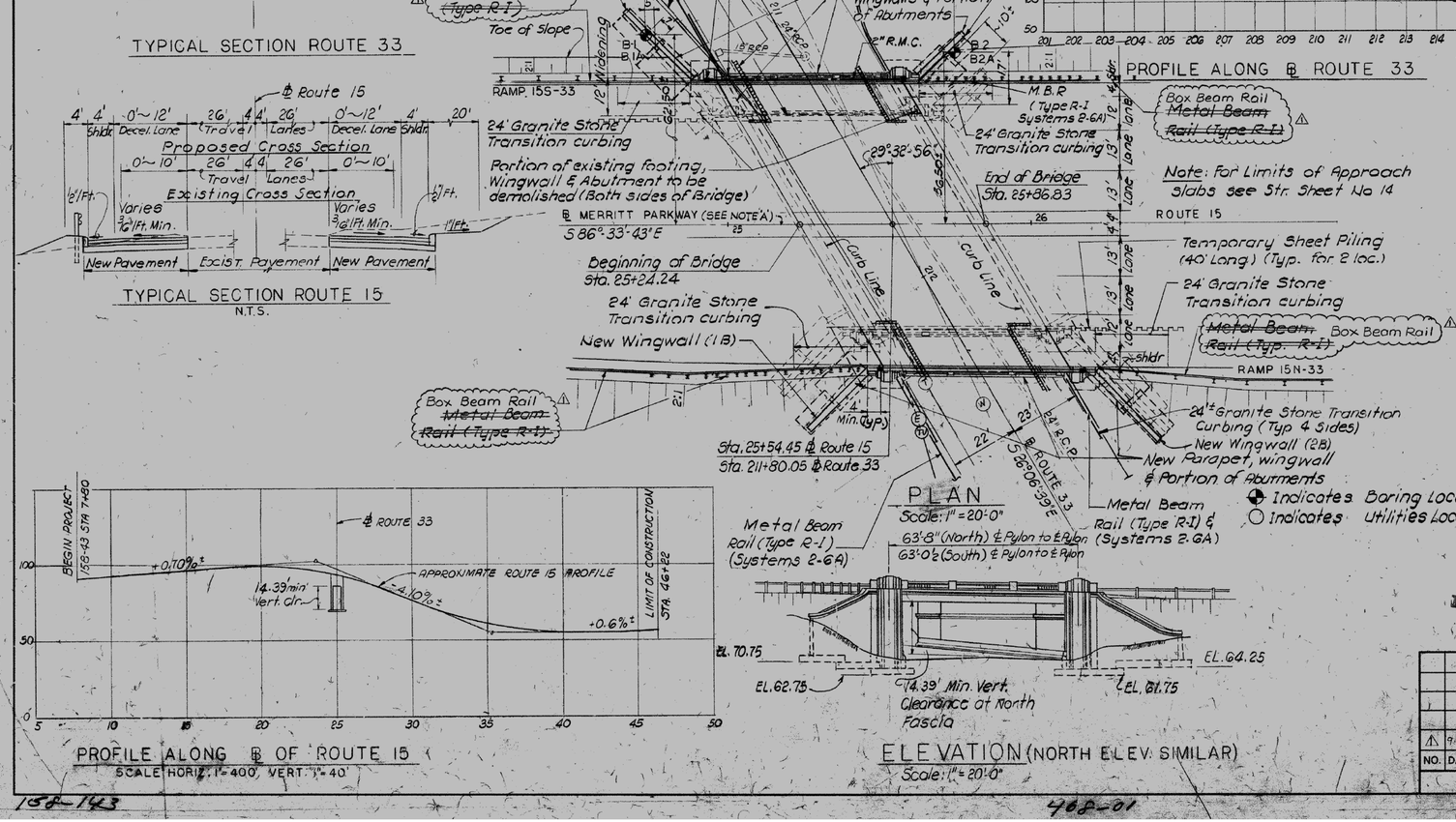
* Accuracy of this dimension is subject to 'Growth' due to tolerances of Deck Units



TYPICAL SECTION ROUTE 33

TYPICAL SECTION ROUTE 15

N.T.S.



PLAN

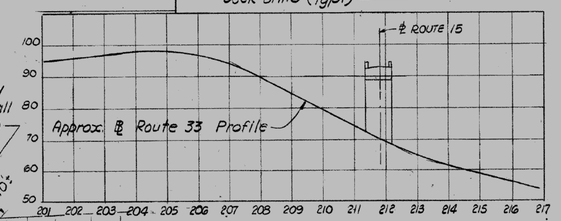
Scale: 1" = 20'-0"

ELEVATION (NORTH ELEV. SIMILAR)

Scale: 1" = 20'-0"

Indicates Boring Location

Indicates Utilities Location



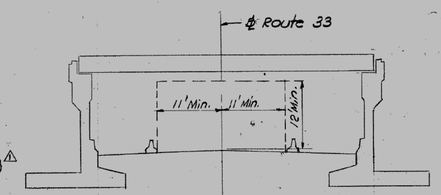
PROFILE ALONG ℄ ROUTE 33

PROFILE ALONG ℄ OF ROUTE 15

SCALE: HORIZ. 1" = 400', VERT. 1" = 40'

NOTE 'A'

Dimensions of existing bridge, stations, elev's and offsets shown on these plans are based on original contract drawings dated 1937, 1987 and the survey provided by Conn. DOT dated May 1990. Contractor shall verify all dimensions in the field.



TEMPORARY MIN. CONSTR. CLEARANCE

Scale: 5/32" = 1'-0"

Note: Additional borings taken in 1937 are depicted on existing construction plans.

THIS SHEET CORRECTED

NO.	DATE	DESCRIPTION
1	9-12-90	Added Box Beam Rail

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

GENERAL PLAN, ELEVATION & TYPICAL SECTION

ENGINEER: AMMANN & WHITNEY, Consulting Engineers
DESIGNER: CF | DRAFTER: DS | CHECKER: SA
APPROVED: J. Whitney | DATE: 9-10-90
STRUCTURE NO. 158-143-3 | BRIDGE LOG NO. 05763

158-143 468-01

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\34_SB_158-211_Brg05763_OriginalDrawings_General_Plan.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

DRAWING NO. S-5

SHEET NO. 02.02.06

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION FORM NO ENG 15A ED 4-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEET
	CONN.	WESTPORT	——	158–143	1990	15	76	187

BRIDGE QUANTITIES		
ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION – EARTH (COMPLETE)	C.Y.	2300
PERVIOUS STRUCTURE BACKFILL	C.Y.	1600
BITUMINOUS CONCRETE CLASS 1	TON	13
BITUMINOUS CONCRETE CLASS 12	TON	13
CUT SHEAR KEYS IN PRESTRESSED DECK UNITS	S.F.	120
PRESTRESSED DECK UNITS (4'–0"x2'–9")	L.F.	240
CLASS "A" CONCRETE	C.Y.	699
CLASS "F" CONCRETE	C.Y.	35
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	290
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	160
DEFORMED STEEL BARS	LB.	52530
DEFORMED STEEL BARS–EPOXY COATED	LB.	4800
DRILLING & GROUTING REINFORCING BARS	L.F.	520
CONCRETE CYLINDER CURING BOX	EA.	1
MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	S.Y.	170
DAMPPROOFING	S.Y.	500
TEMPORARY SHEET PILING	S.F.	3200
(8"x16") SLOPED GRANITE STONE CURBING FOR BRIDGES	L.F.	155
PROTECTIVE COMPOUND FOR BRIDGES	S.Y.	75
REMOVAL OF EXISTING METAL BRIDGE RAIL	L.F.	122
REMOVAL OF EXISTING MASONRY	C.Y.	287
SAWING & SEALING JOINTS	L.F.	60
PRESTRESSED DECK UNITS (4'-0"x2'-9") MODIFIED	L.F.	120
STEEL LAMINATED ELASTOMERIC BEARINGS	C.I.	2430
BAGGED STONE	C.F.	112
POST-TENSIONING TRANSVERSE RODS	L.S.	L.S.
(18"x12"x8") CAST IRON JUNCTION BOX	EA.	4
2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	125
REMOVAL OF PARAPET	C.Y.	30
STRUCTURE EXCAVATION – ROCK (NO EXPLOSIVES)	C.Y.	110
SAW CUT CONCRETE	L.F.	100
4" POLYVINYL CHLORIDE PLASTIC PIPE	L.F.	90
PROTECTIVE COATING FOR CONCRETE	S.F.	7330
GRANULAR FILL	C.Y.	50
1/2" CLOSED CELL ELASTOMER	C.I.	400

NOTE: STRUCTURE EXCAVATION – ROCK (NO EXPLOSIVES)
NON – BLASTING TECHNIQUE TO BE USED BY CONTRACTOR
SEE SPECIAL PROVISIONS

GENERAL NOTES:

SPECIFICATIONS:

CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 814(1988) AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (AASHTO 1989), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL (1985).

ALLOWABLE DESIGN STRESSES:

CLASS 'A' CONCRETE BASED ON fc'=3000psi
CLASS 'F' CONCRETE BASED ON fc'=4000psi
PRESTRESSED DECK UNITS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
f'c = 5,000 psi, f'ci = 4,000 psi
PRESTRESSED STRANDS: 1/2" DIAMETER SEVEN WIRE STRANDS, ASTM A416
GRADE 270, f's (ULTIMATE STRENGTH) = 270,000 psi
STRANDS FOR TRANSVERSE POSTTENSIONING: 1/2" DIAMETER TIE STRAND (GALVANIZED),
EACH STRAND SHALL BE TENSIONED BY A FORCE EQUAL TO 20,000 Lbs.
REINFORCEMENT (ASTM A615 GRADE 60) fs (TENSILE) = 24,000 psi

LIVE LOAD HS 20–44

CLASS 'A' CONCRETE: CLASS 'A' CONCRETE SHALL BE USED FOR THE ENTIRE SUBSTRUCTURE.

CLASS 'F' CONCRETE: CLASS 'F' CONCRETE SHALL BE USED FOR PARAPETS.

FUTURE PAVING ALLOWANCE: NONE

JOINT SEAL: SEE SPECIAL PROVISIONS.

PARAFFIN: THE COST OF FURNISHING & APPLYING PARAFFIN IS INCLUDED IN THE ITEM CLASS 'F' CONCRETE.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT:

ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS:

ALL REINFORCEMENT, EXCEPT THE STRANDS, IN THE ADJACENT PRECAST CONCRETE DECK UNITS SHALL BE EPOXY COATED. ALL REINFORCEMENT IN THE PARAPETS ON THE SUPERSTRUCTURE SHALL BE EPOXY COATED.

ALL REINFORCEMENT IN THE TOP MAT OF THE CONCRETE APPROACH SLABS INCLUDING THOSE IN THE HEADERS SHALL BE EPOXY COATED. THESE BARS ARE ROADWAY ITEMS AND SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS – EPOXY COATED."

BITUMINOUS CONCRETE OVERLAY:

THIS SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE BITUMINOUS CONCRETE CLASS (12) (1" THICK) AND THE SECOND SHALL BE BITUMINOUS CONCRETE – CLASS (1) (1 1/2" THICK).

MINUMUM VERTICAL CLEARANCE: 14.39' AT CURB LINE.

UTILITIES: ALL UNDERGROUND UTILITIES (TELEPHONE AND ELECTRIC) TO BE PROTECTED DURING CONSTRUCTION OF FOOTINGS.
THE FOLLOWING UTILITY COMPANIES HAVE BEEN IDENTIFIED:
1. SOUTHERN NEW ENGLAND TELEPHONE COMPANY.
2. NORTHEAST UTILITIES SERVICES (CL&P).
3. CABLEVISION OF CONNECTICUT.

FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

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

DECIMAL DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

PROTECTION OF ROADWAY BELOW STRUCTURE:

1. DEMOLITION, REMOVAL AND CLEANING OPERATIONS SHALL BE CONDUCTED WITH MEASURES THAT PREVENT MATERIALS AND DEBRIS FROM FALLING BELOW THE BRIDGE. SUCH MEASURES SHALL INCLUDE NETS, SCREENS, PLATFOMS OR OTHER PROTECTIVE DEVICES, APPROPRIATE FOR THIS APPLICATION AND APPROVED
2. ALL MATERIALS FALLING BELOW THE BRIDGE SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF BY THE CONTRACTOR.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISION "BEST MANAGEMENT PRACTICES FOR PROTECTION OF THE ENVIRONMENT.

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION
REVISIONS		

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT
MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)
GENERAL NOTES
ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER CF | DRAFTER YB | CHECKER SA
APPROVED S. Weissman | DATE 9-10-90
STRUCTURE NO. 158-143-3 | BRIDGE LOG NO. 05763 | STRUCTURE SHEET NO. 2 OF 24

468-01

76

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\35_SB_158-211_Brg05763_OriginalDrawings_General_Notes.dgn

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

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

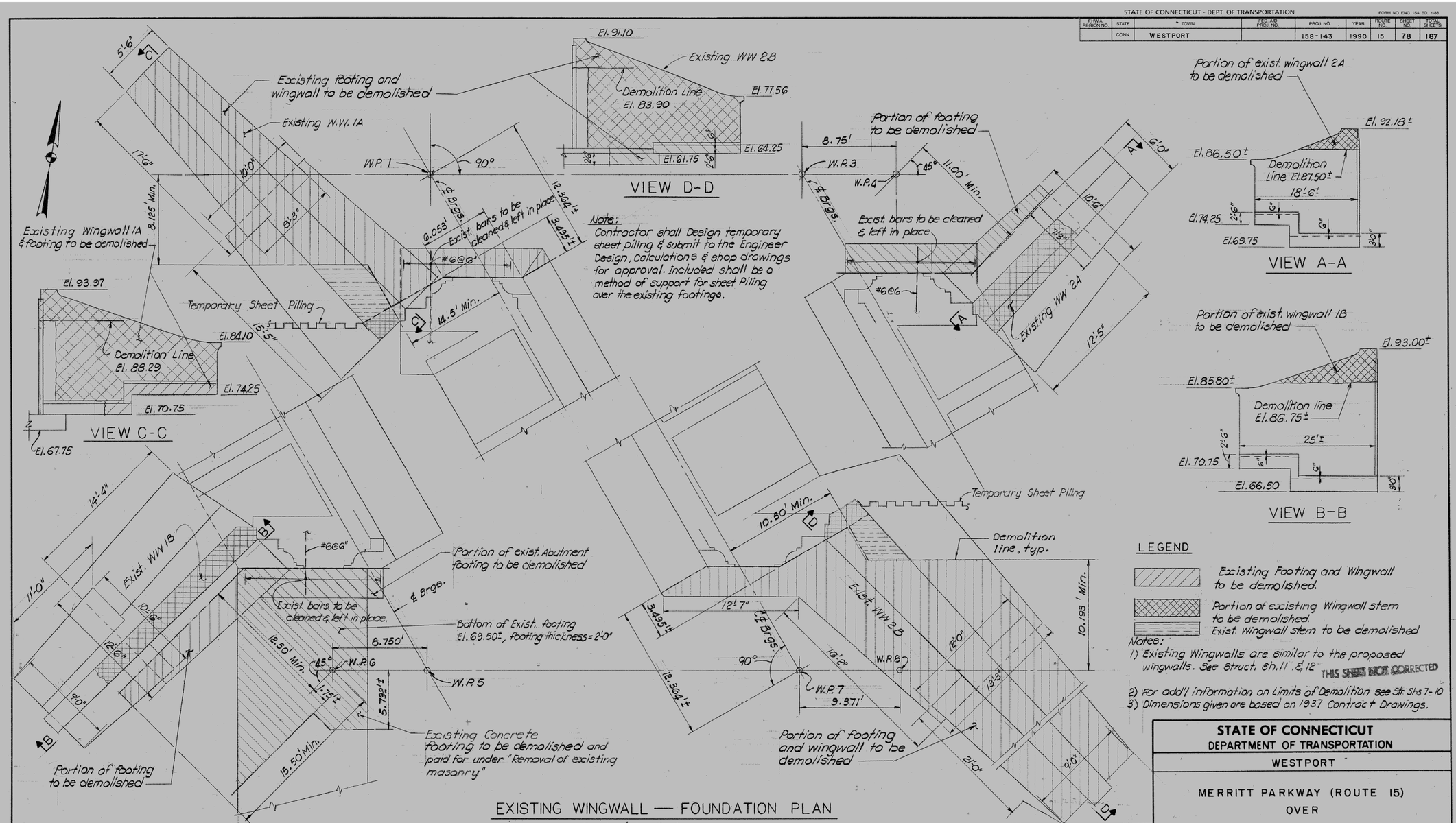
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-6
SHEET NO. 02.02.07

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 154 ED. 1-88

FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	78	187



EXISTING WINGWALL — FOUNDATION PLAN

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

For locations of W.P's see Struct. Sh. 5 & 6

Note:
It is the Contractor's responsibility to check the location of existing utilities prior to the determining the exact location of temporary sheet piling to prevent any damages to existing utilities.
For additional contractor's responsibilities, see special provision. "Protection of existing utilities."

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

LEGEND

- Existing Footing and Wingwall to be demolished.
- Portion of existing Wingwall stem to be demolished.
- Exist. Wingwall stem to be demolished

Notes:
1) Existing Wingwalls are similar to the proposed wingwalls. See Struct. Sh. 11 & 12
THIS SHEET NOT CORRECTED
2) For add'l information on Limits of Demolition see Str. Shs 7-10
3) Dimensions given are based on 1937 Contract Drawings.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

FOUNDATION AND WALL DEMOLITION

ENGINEER AMMANN & WHITNEY Consulting Engineer
DESIGNER KC | DRAFTER DB | CHECKER CF
APPROVED S. Weisman | DATE 9-10-90
STRUCTURE NO. 158-143-3 | BRIDGE LOG NO. 05763 | STRUCTURE SHEET NO. 4 OF 24

158-143 468-01 78

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\36_SB_158-211_Brg05763_OriginalDrawings_Demolition.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

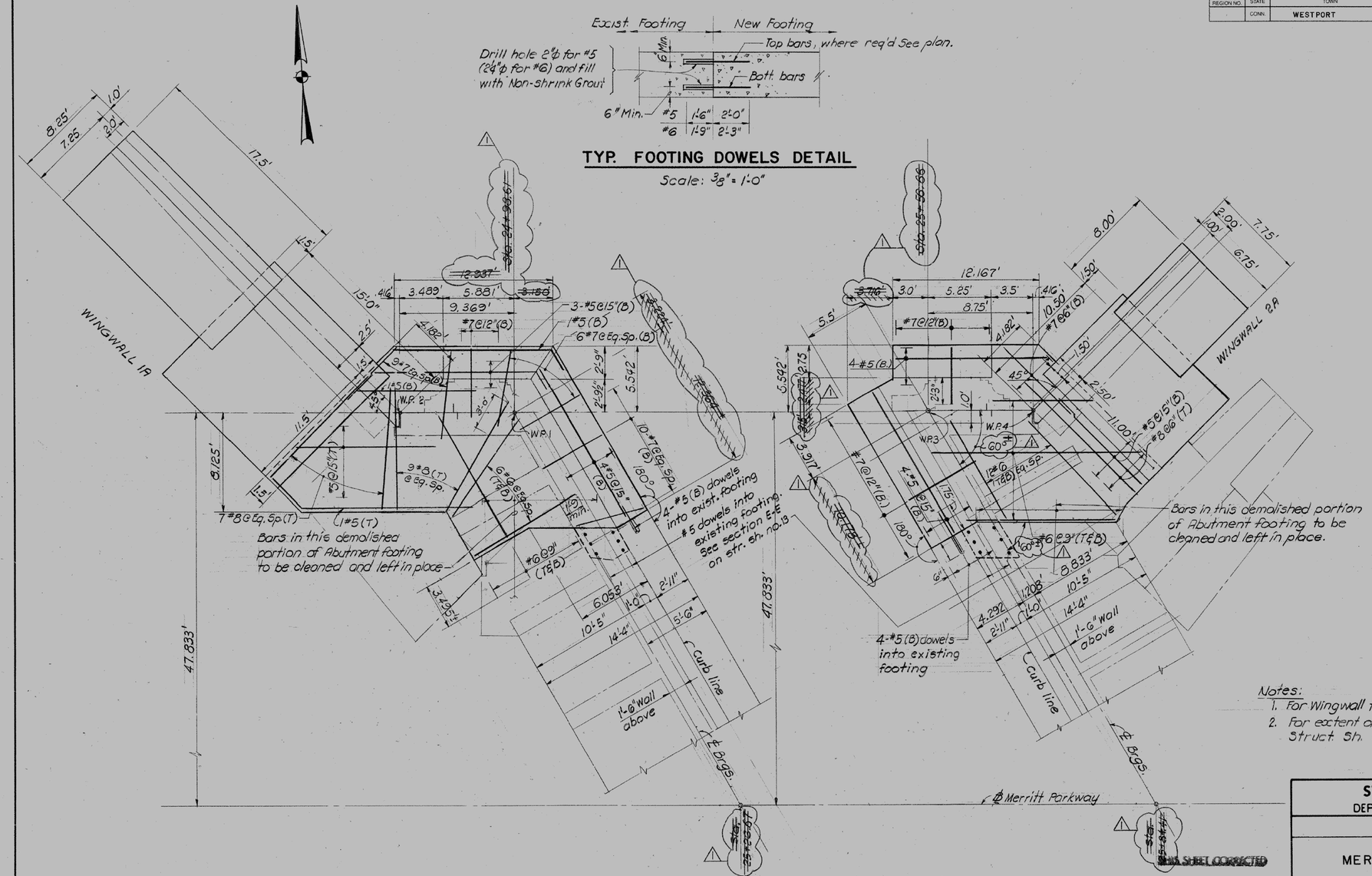
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-7
SHEET NO. 02.02.08

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	79	187



TYP. FOOTING DOWELS DETAIL

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

FOUNDATION PLAN

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

Notes:
1. For Wingwall footing reinf. see Struct. Sh. 11
2. For extent of exist. Pylon demolition see Struct. Sh. 7 & 9

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS & STA'S.

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

NORTH FOUNDATION EXTENSION PLAN

ENGINEER AMMANN & WHITNEY
DESIGNER KC | DRAFTER DB | CHECKER CF
APPROVED L. Weissman | DATE 9-10-90
STRUCTURE NO. 158-143-3 | BRIDGE LOG NO. 05763 | STRUCTURE SHEET NO. 5 of 24

158-143 468-01 79

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\37_SB_158-211_Brg05763_OriginalDrawings_North_Foundation.dgn

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

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

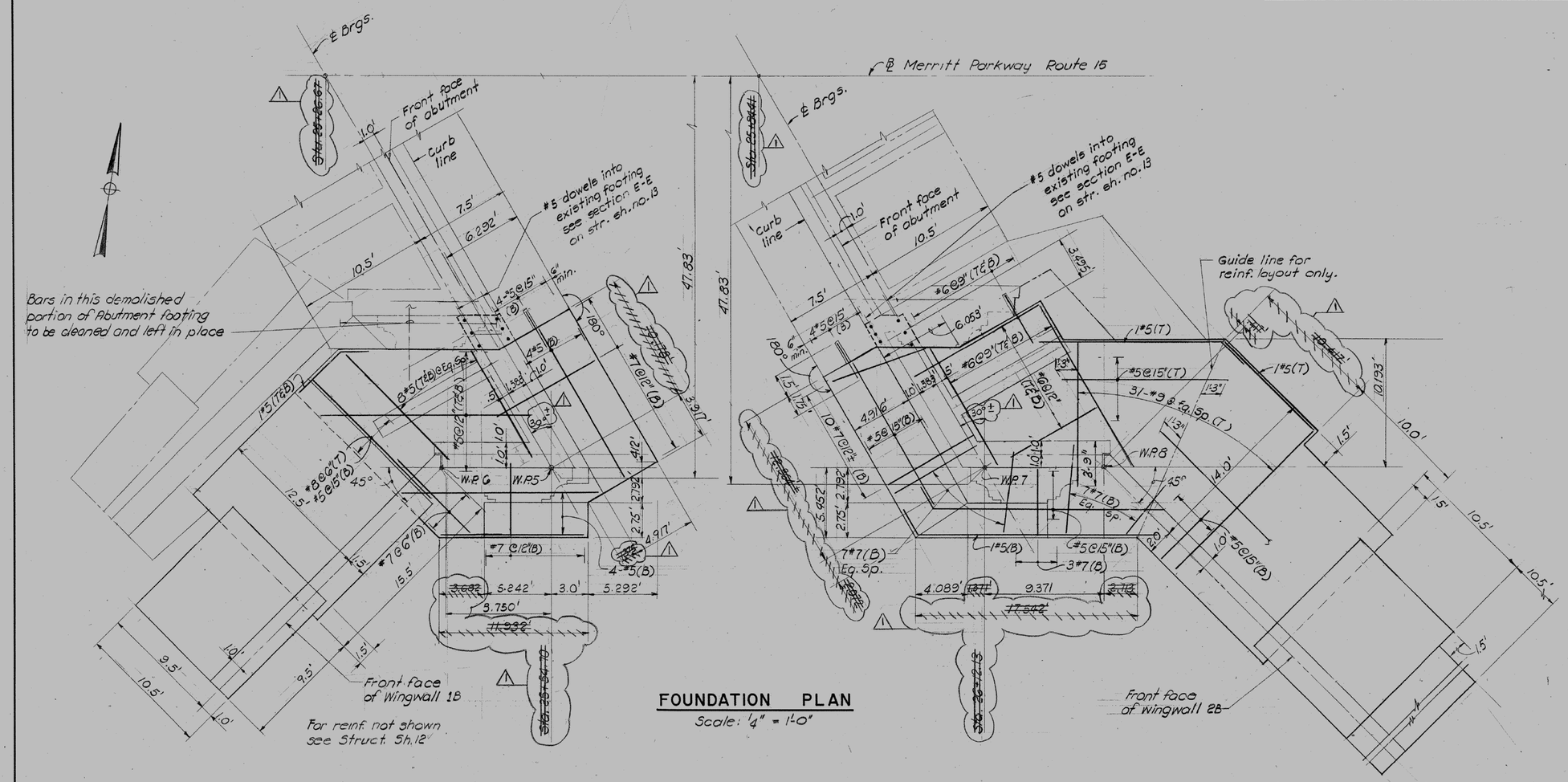
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-8
SHEET NO. 02.02.09

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-68

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	80	187



FOUNDATION PLAN

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

Notes

1. For Wingwall footing reinf. See Struct. Sh. 12
2. For extent of exist. Pylon demolition see Sh. 9 & 10
3. For Footing Dowels, see "Typ. Detail" on Str. Sh. 5

THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS & STA'S.

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

SOUTH FOUNDATION EXTENSION PLAN

ENGINEER AMMANN & WHITNEY
DESIGNER K.C. DRAFTER D.B. CHECKER C.F.
APPROVED B. Weissman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 6 OF 24

158-143 468-01 80

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\38_SB_158-211_Brg05763_OriginalDrawings_South_Foundation.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

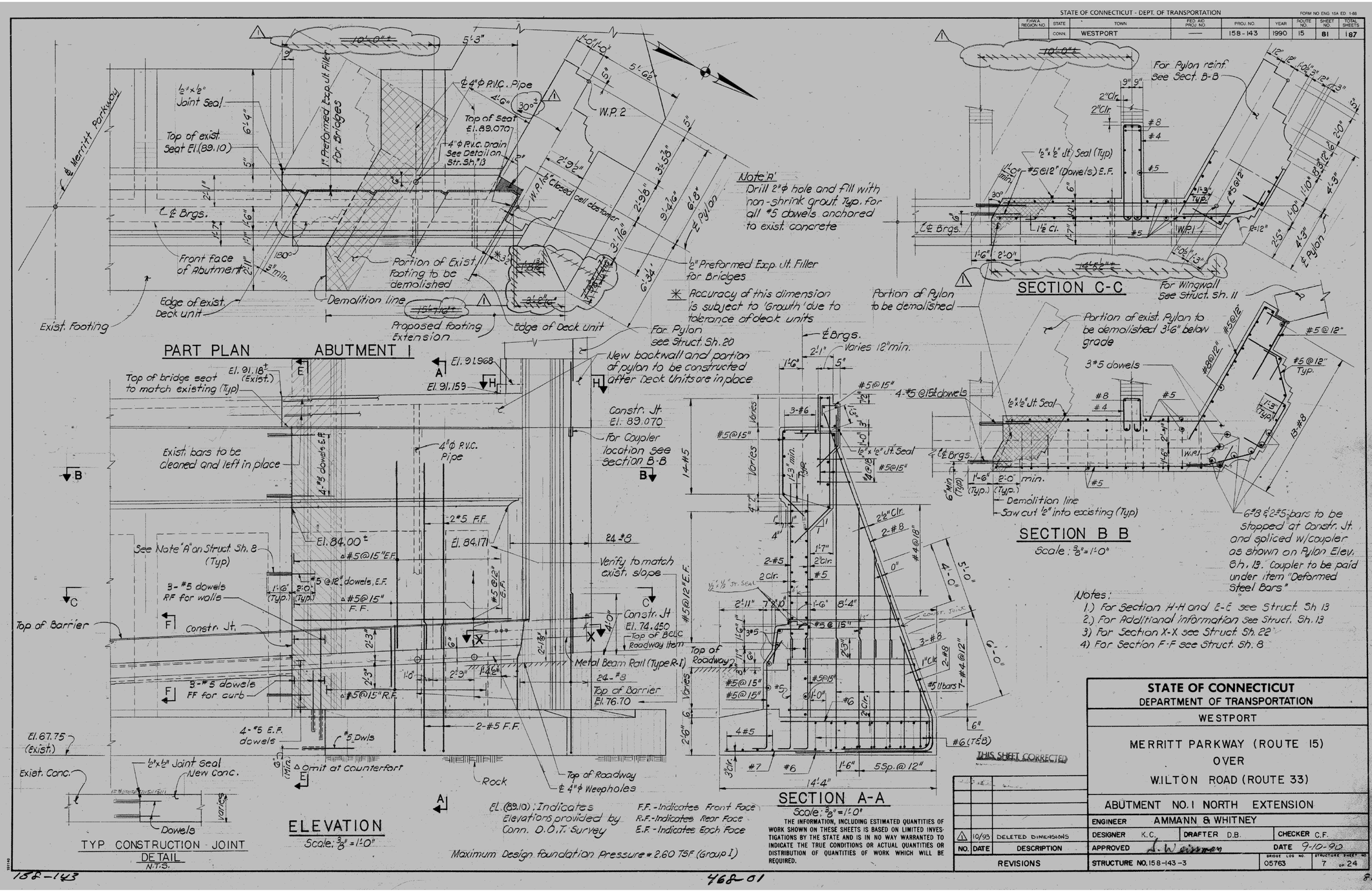
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-9
SHEET NO. 02.02.10

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO ENG 13A ED 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	81	187



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\39_SB_158-211_Brg05763_OriginalDrawings_Abutment_1_North.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: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

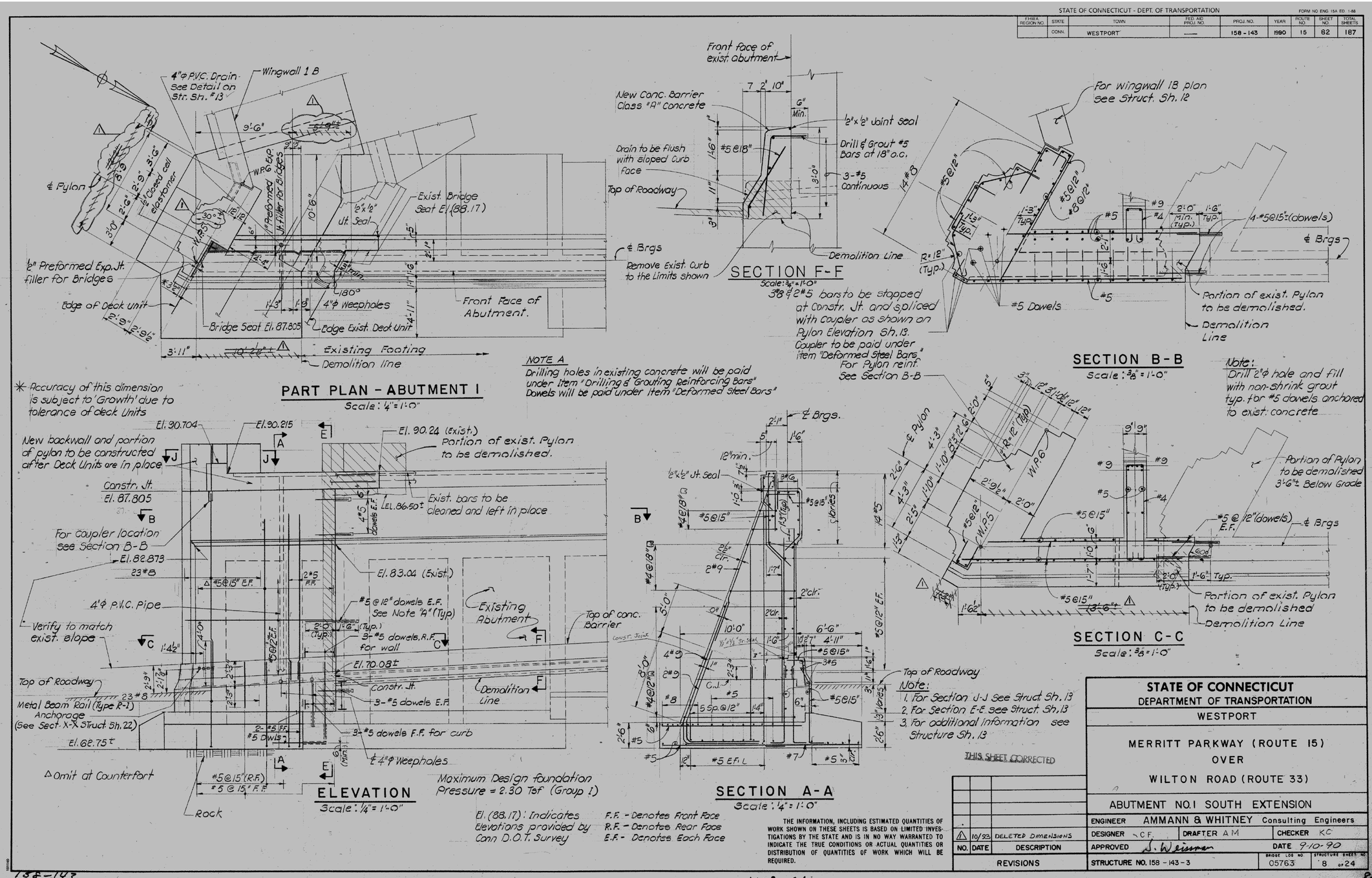
DRAWING NO. S-10

SHEET NO. 02.02.11

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	82	187



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: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\40_SB_158-211_Brg05763_OriginalDrawings_Abutment_1_South.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

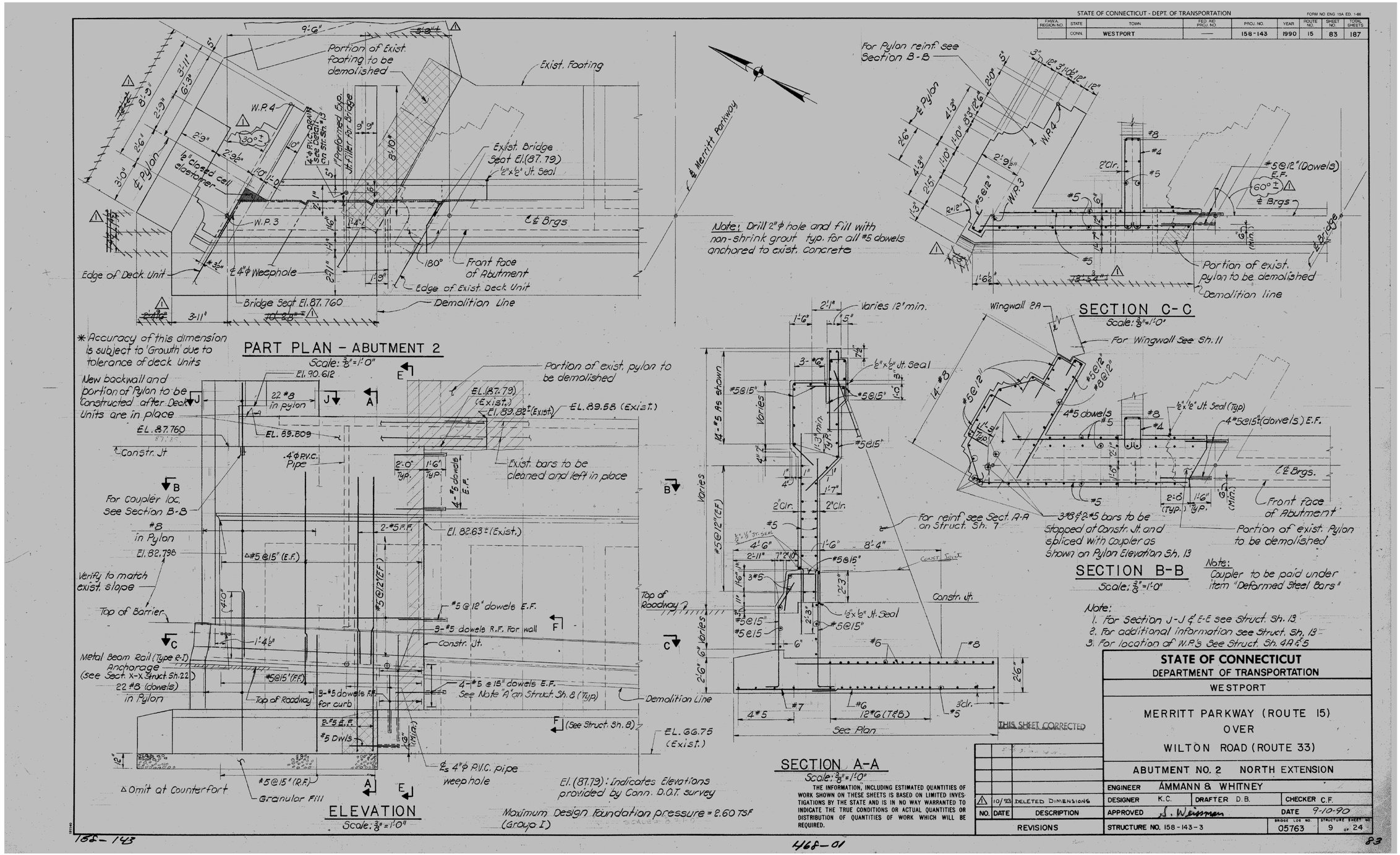
DRAWING NO. S-11

SHEET NO. 02.02.12

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-86

FHWA REGION NO.	STATE	TOWN	FED. NO. PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	83	187



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: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\41_SB_158-211_Brg05763_OriginalDrawings_Abutment_2_North.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: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

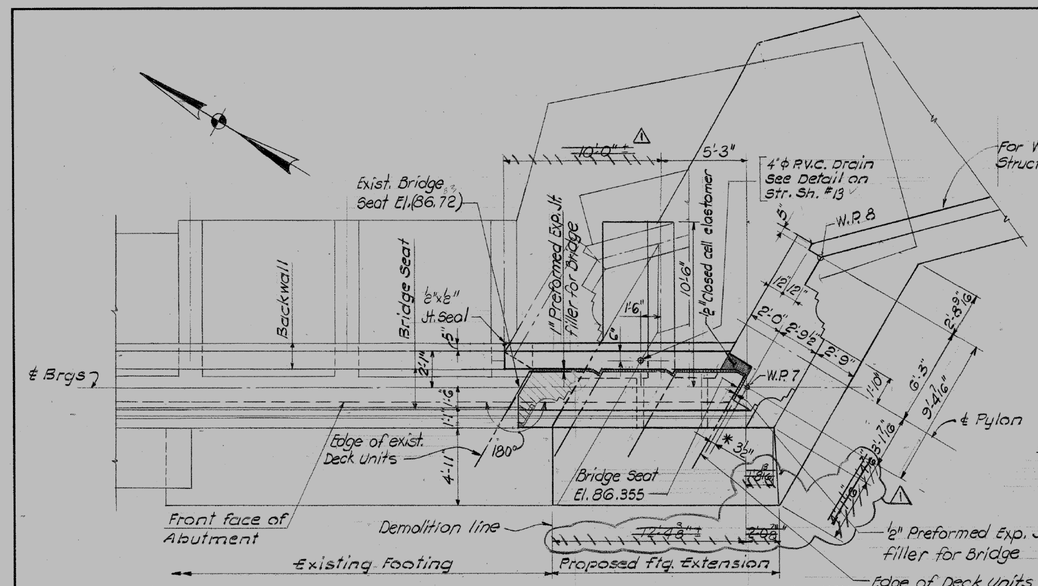
DRAWING NO. S-12

SHEET NO. 02.02.13

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	84	187

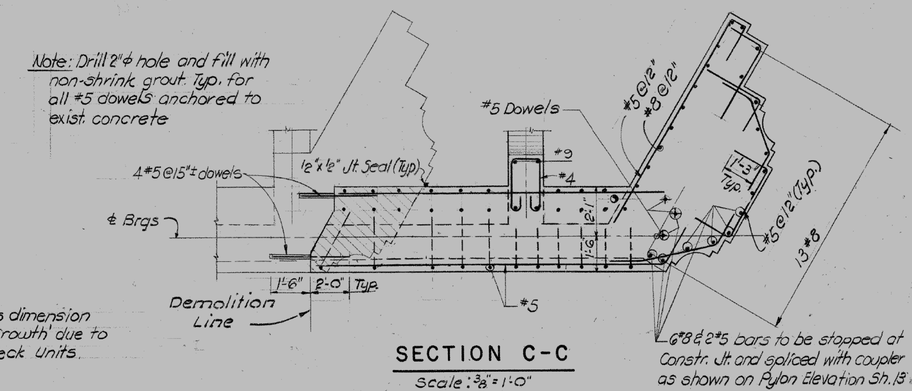


PART PLAN - ABUTMENT 2

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

✳ Accuracy of this dimension is subject to 'Growth' due to tolerance of deck units.

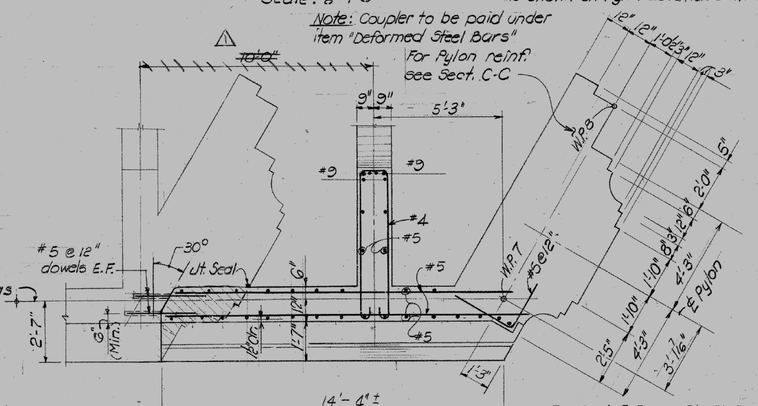
El. (86.72): Indicates Elevations provided by Conn. D.O.T. Survey



SECTION C-C

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

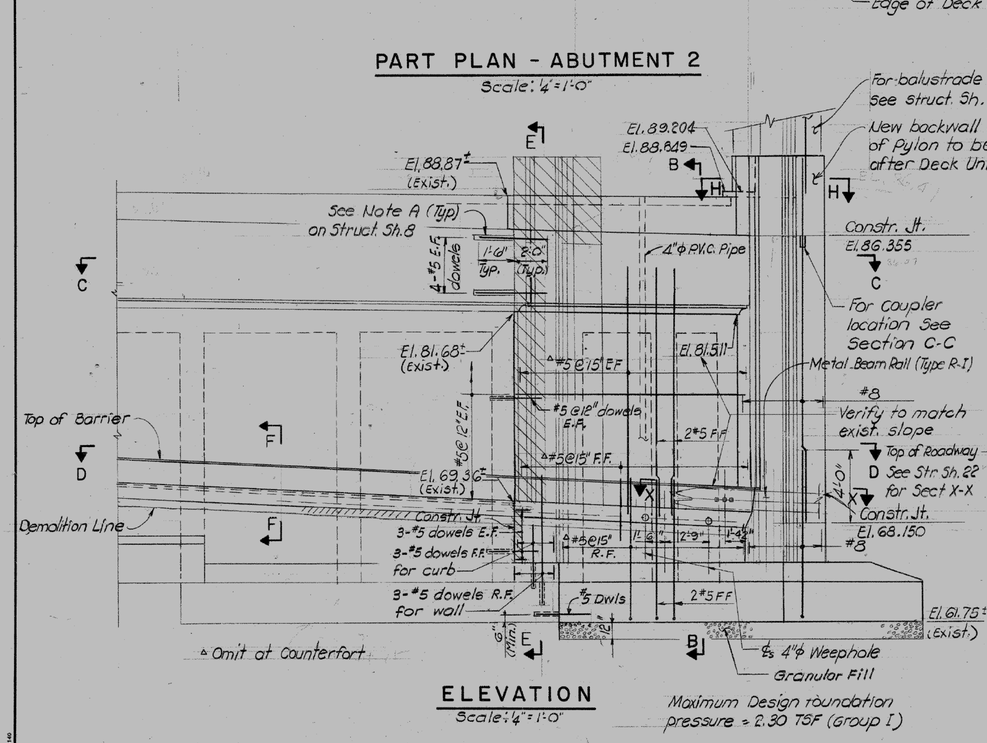
Note: Coupler to be paid under item "Deformed Steel Bars"



SECTION D-D

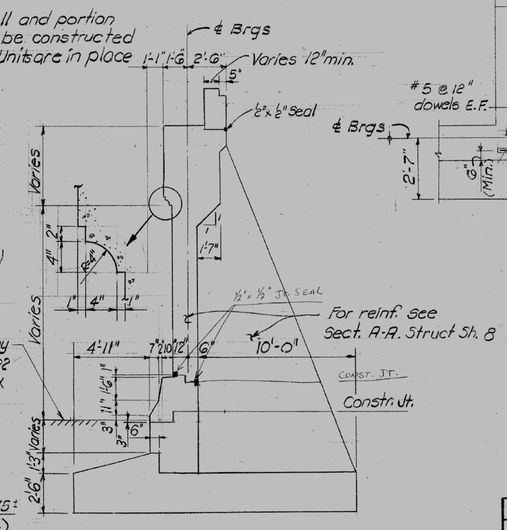
Scale: 3/8" = 1'-0"

Note: For Section E-E & H-H see Struct. Sh. 13



ELEVATION

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



SECTION B-B

Scale: 1/4" = 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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

THIS SHEET CORRECTED

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

ABUTMENT NO. 2 SOUTH EXTENSION

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER C.F. DRAFTER A.M. CHECKER K.C.
APPROVED S. Wessman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 10 OF 24

158-143 468-01 84

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\42_SB_158-211_Brg05763_OriginalDrawings_Abutment_2_South.dgn

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

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

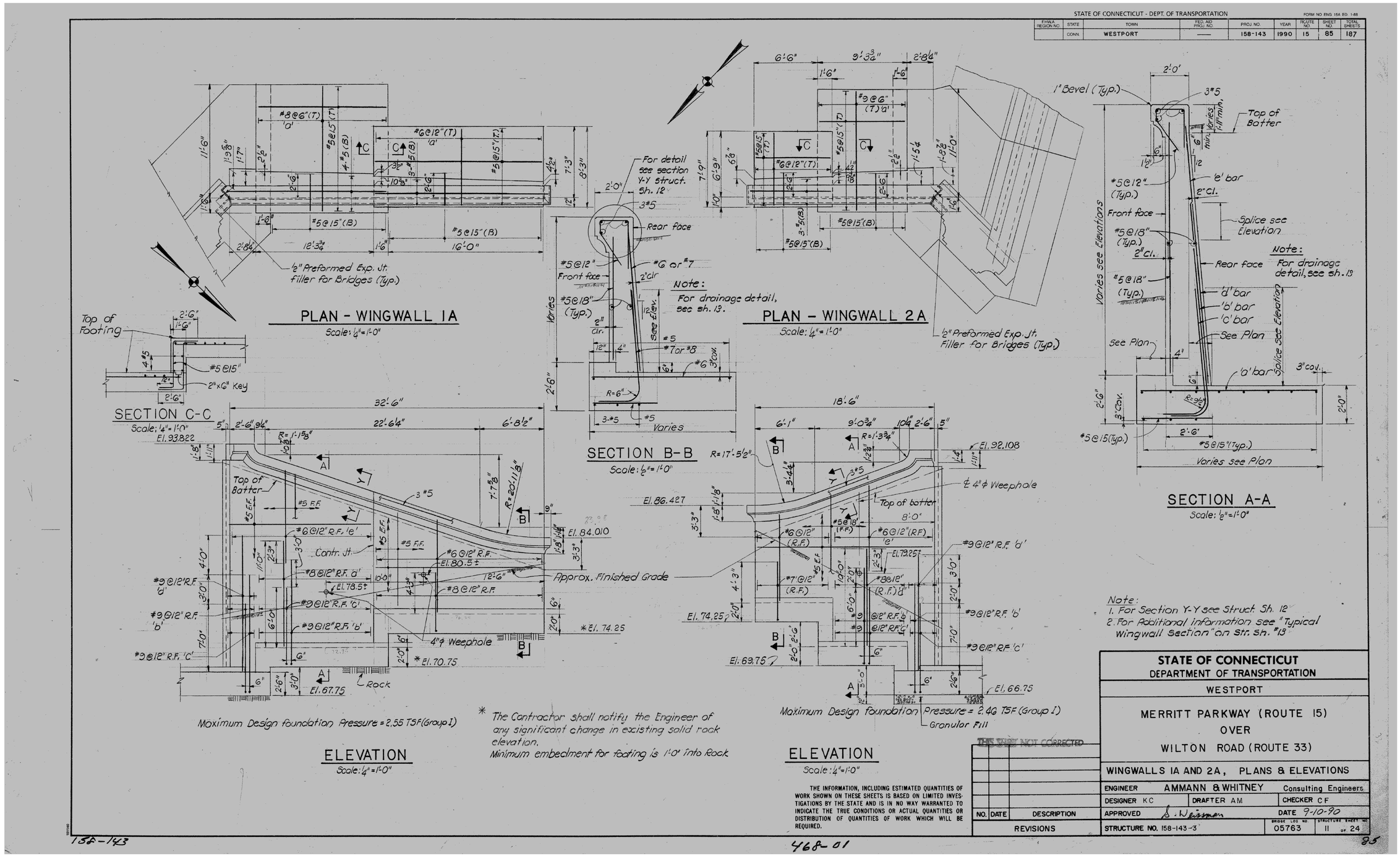
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-13
SHEET NO. 02.02.14

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

FHWA REGION NO.	STATE	TOWN	F.E.D. NO. PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	85	187



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\43_SB_158-211_Brg05763_OriginalDrawings_Wingwalls_1A&2A.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

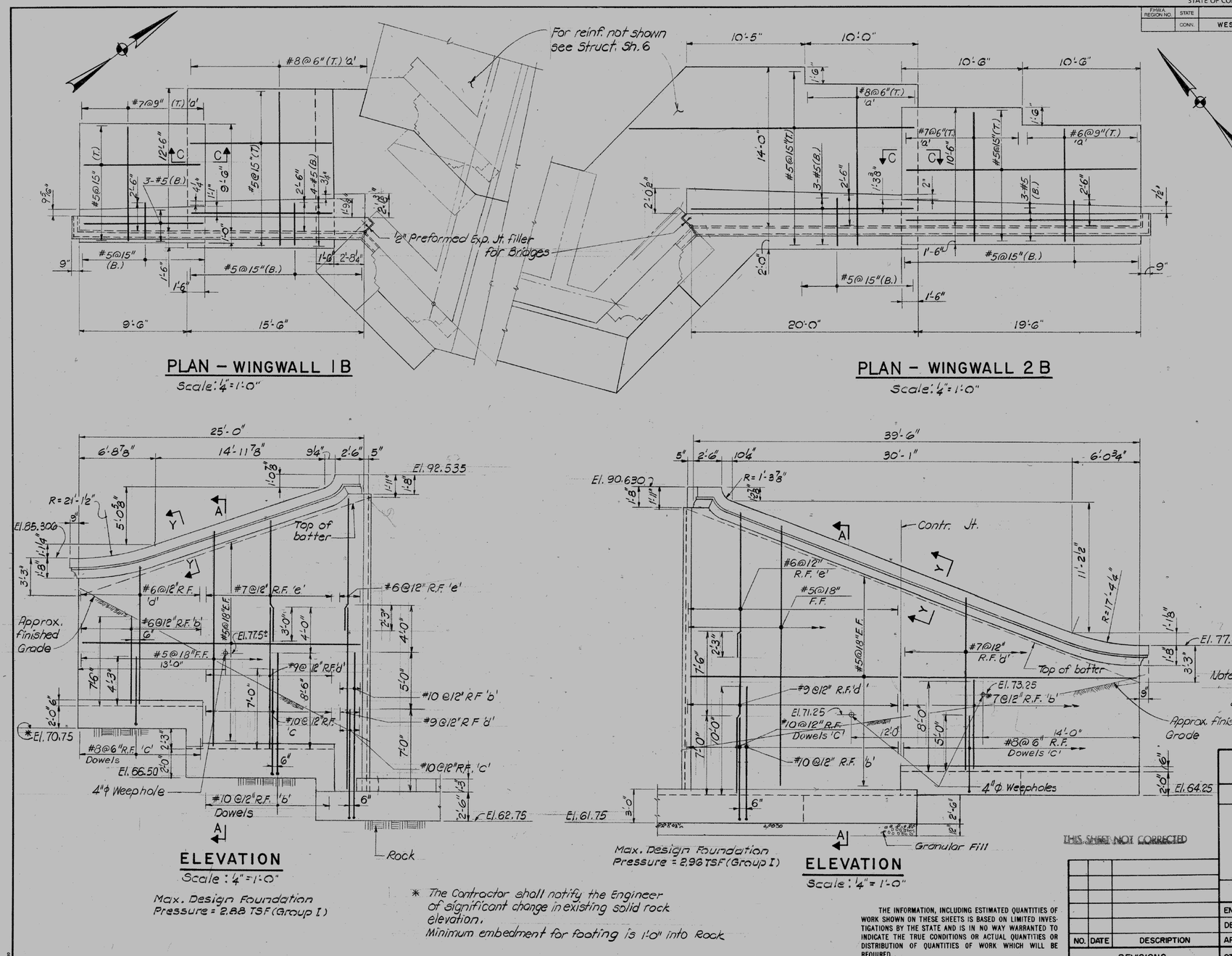
DRAWING NO. S-14

SHEET NO. 02.02.15

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	——	158-143	1990	15	86	187



Notes:
1. For additional information see Struct. Sh. 13
2. For Section A-A and C-C See Struct. Sh. 11

* The Contractor shall notify the Engineer of significant change in existing solid rock elevation.
Minimum embedment for footing is 1'-0" into Rock

THIS SHEET NOT CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

WINGWALLS 1B AND 2B, PLANS & ELEVATIONS

ENGINEER	AMMANN & WHITNEY	Consulting Engineers	
DESIGNER	K.C.	DRAFTER A.M.	CHECKER C.F.
APPROVED	S. Wessman	DATE 9-10-90	
STRUCTURE NO. 158-143-3		BRIDGE LOG NO. 05763	STRUCTURE SHEET NO. 12 of 24

158-143

468-01

86

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\44_SB_158-211_Brg05763_OrginalDrawings_Wingwalls_1B&2B.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Boda

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

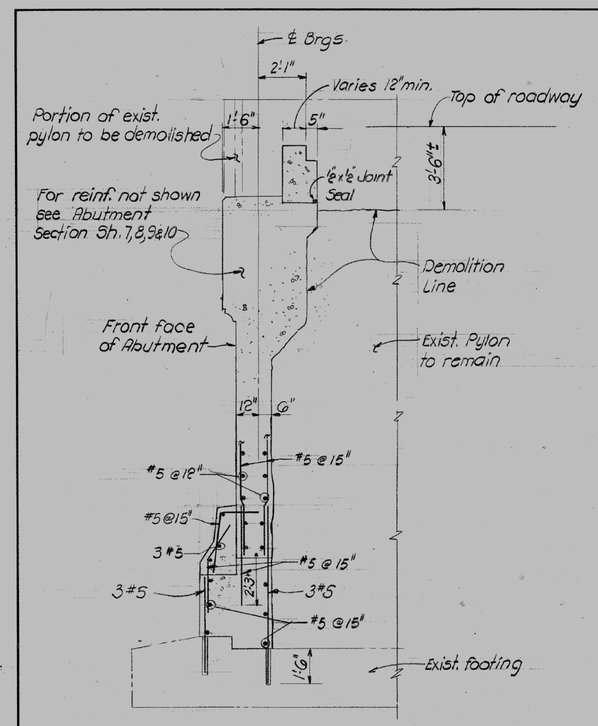
DRAWING NO. S-15

SHEET NO. 02.02.16

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

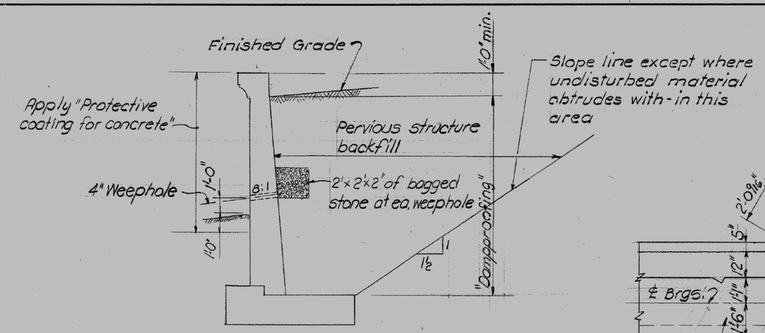
FORM NO ENG 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	87	187

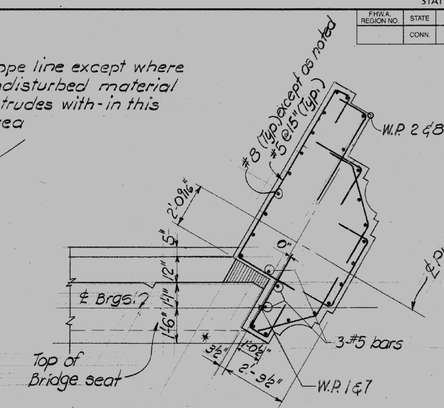


SECTION E-E

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

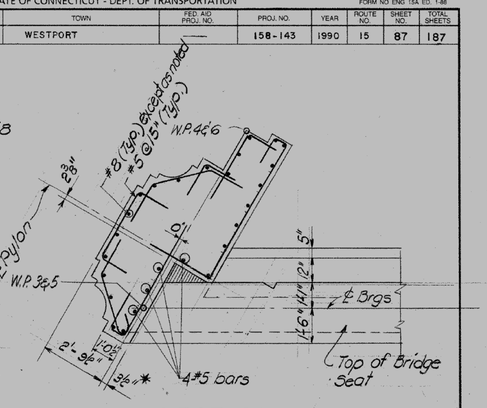


TYP. WINGWALL SECTION



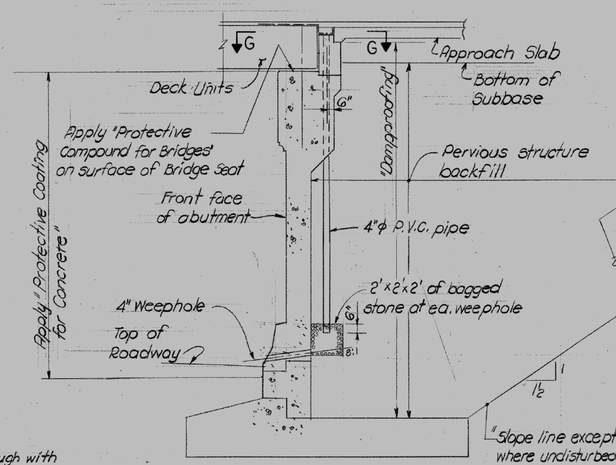
SECTION H-H

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



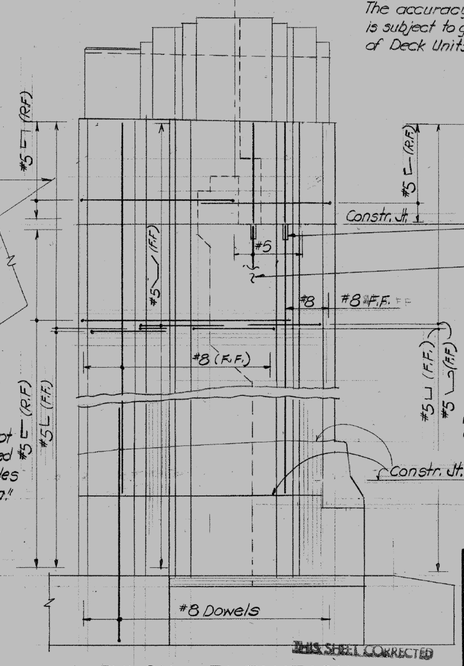
SECTION J-J

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



AT ABUTMENT

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



PYLON ELEVATION

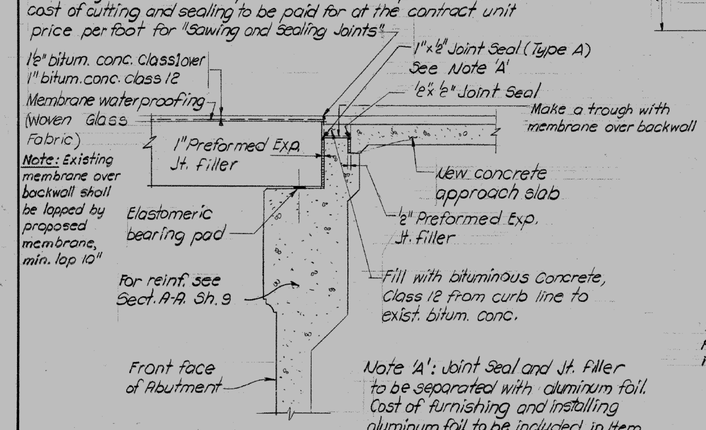
* NOTE
The accuracy of these dimensions is subject to growth due to tolerances of Deck Units.

Note: Apply dampproofing on rear face of Abutment and on all surfaces of the Counterfort walls

Coupler to be paid under Item "Deformed Steel Bars"

Apply "Protective Coating for Concrete" at front face of Pylon

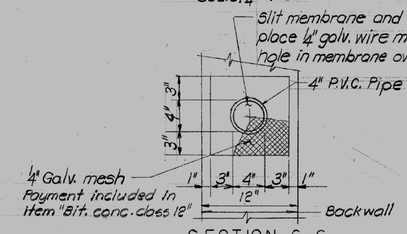
Cut overlay with a 3/8"x1 1/2" deep kerf and fill with a pourable sealant. Cost of cutting and sealing to be paid for at the contract unit price per foot for "Sawing and Sealing Joints".



Note 'A': Joint Seal and Jt. Filler to be separated with aluminum foil. Cost of furnishing and installing aluminum foil to be included in Item "Class "F" concrete."

AT ABUTMENT

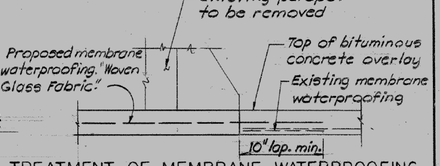
Scale: 3/8" = 1'-0"



SECTION G-G

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

DRAINAGE DETAILS



TREATMENT OF MEMBRANE WATERPROOFING AT EXISTING PARAPET

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

MISCELLANEOUS DETAILS

ENGINEER	AMMANN & WHITNEY	Consulting Engineers	
DESIGNER KC	DRAFTER DB	CHECKER CF	
APPROVED		DATE 9/10/90	
STRUCTURE NO. 158-143-3		BRIDGE LOG NO. 05763	STRUCTURE SHEET NO. 13 of 24

KSB-1/13

468-a

87

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\45_SB_158-211_Brg05763_OriginalDrawings_Misc_Details.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

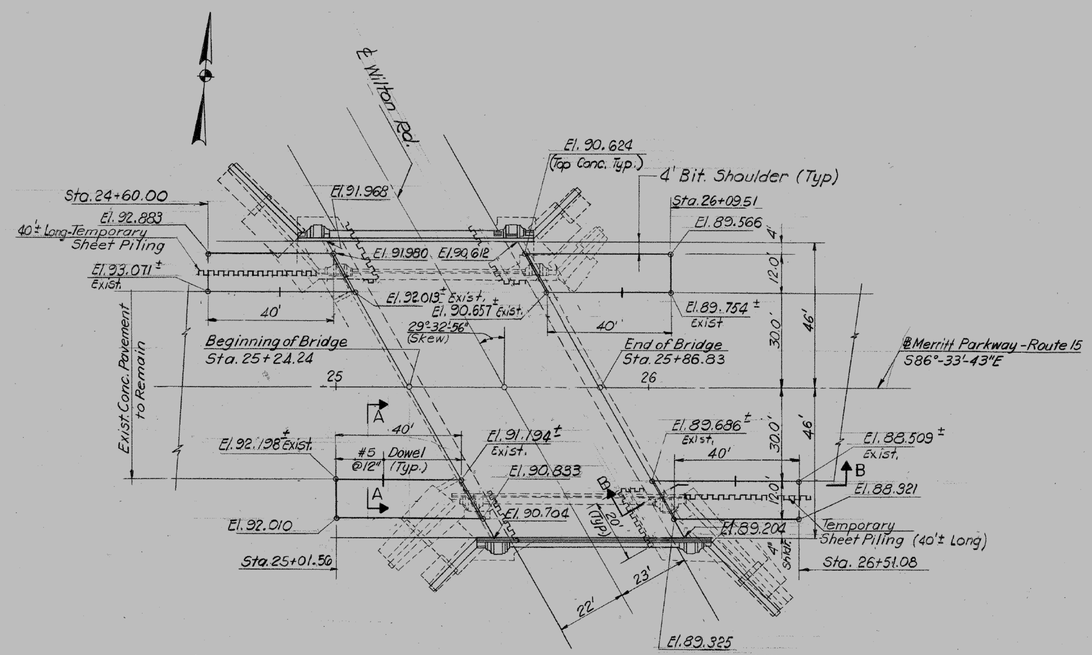
DRAWING NO. S-16

SHEET NO. 02.02.17

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

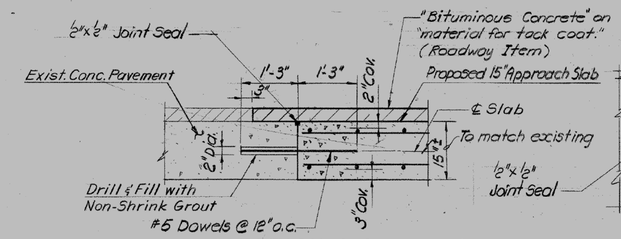
F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	88	187



PLAN

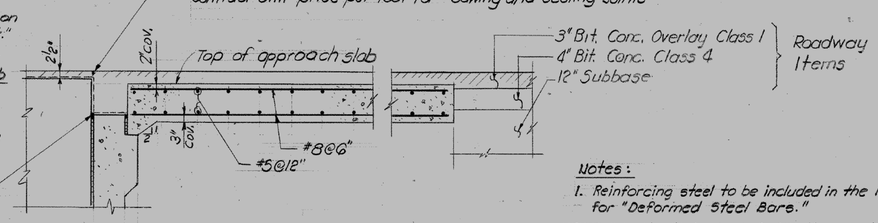
Scale: 1"=20'

Cut overlay with a ⅜"x1⅜" deep kerf and fill with a pourable sealant. Cost of cutting and sealing to be paid for at the Contract unit price per foot for "Sawing and Sealing Joints"



SECTION A-A

Scale: ¾"=1'-0"



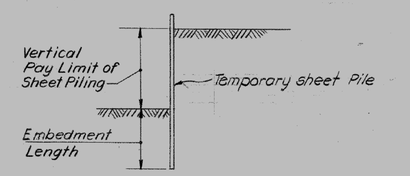
SECTION B-B

NOTE

For details of Joint Seal, Sealer, Membrane Waterproofing and other details, not shown see "Abutment Section" on Struct. Sh. 13

Notes:

1. Reinforcing steel to be included in the roadway item for "Deformed Steel Bars."
2. Concrete to be included in the roadway item for "Class 'A' Concrete."
3. Joint filler to be included in the bridge item for "1" Preformed Expansion Joint Filler.
4. Joint seal to be included in the bridge item for Class 'F' Concrete.
5. Drilling for dowels to be included in the Roadway Item "Drilling and Grouting Reinforcing Bars"



PAY LIMIT OF SHEET PILING

THIS SHEET NOT CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

APPROACH SLAB PLAN

ENGINEER	AMMANN & WHITNEY Consulting Engineers		
DESIGNER CF	DRAFTER NN	CHECKER SA	
APPROVED L. Weisman		DATE 9-10-90	
STRUCTURE NO. 158-143-3	BRIDGE LOG NO. 05763	STRUCTURE SHEET NO. 14 of 24	

158-143

468-01

88

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\46_SB_158-211_Brg05763_OriginalDrawings_Approach_Slab.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

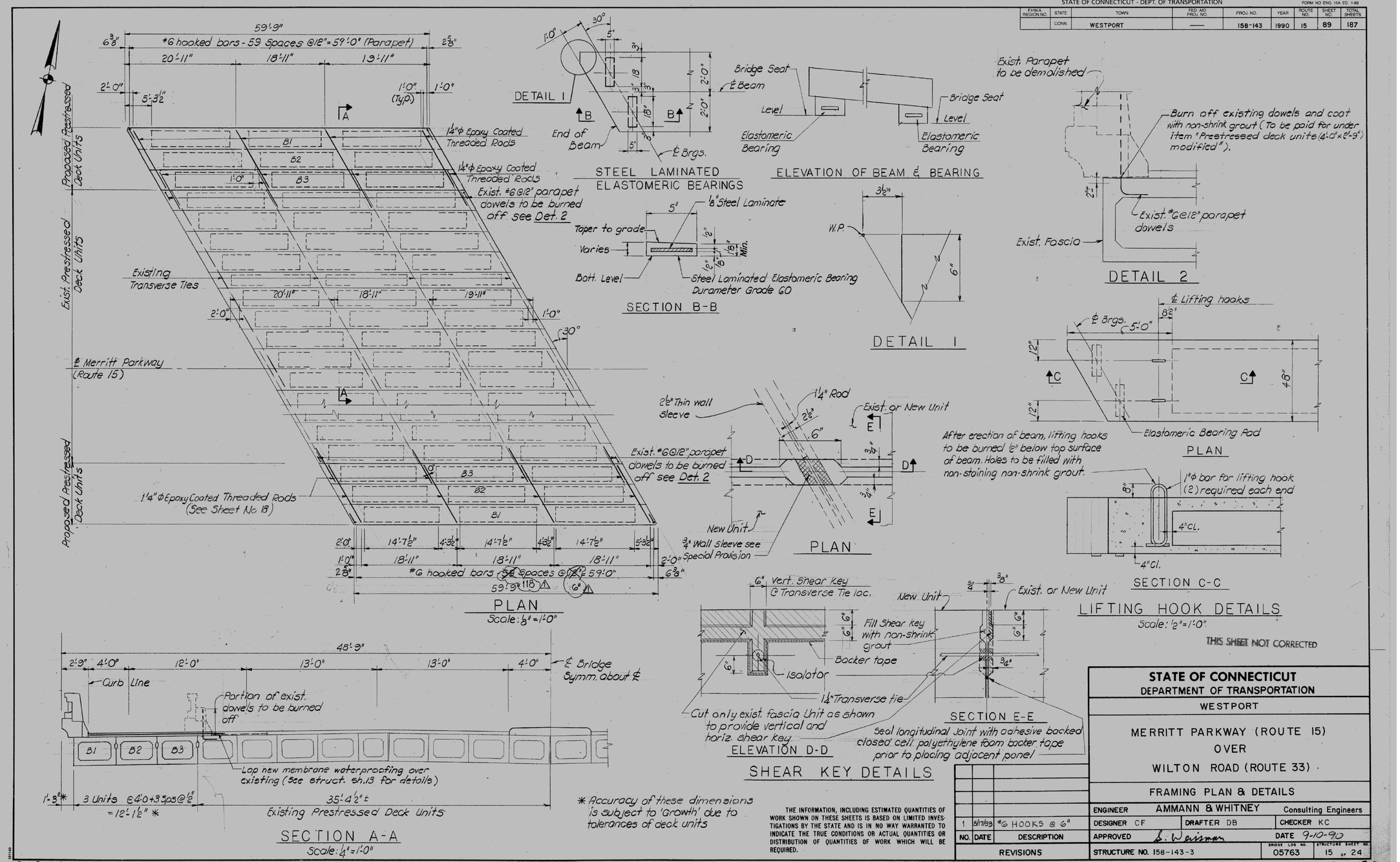
DRAWING NO. S-17

SHEET NO. 02.02.18

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	——	158-143	1990	15	89	187



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: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\47_SB_158-211_Brg05763_OriginalDrawings_Framing.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

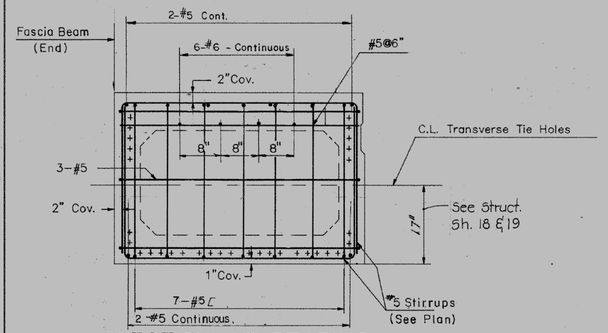
DRAWING NO. S-18

SHEET NO. 02.02.19

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 4-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	90	187



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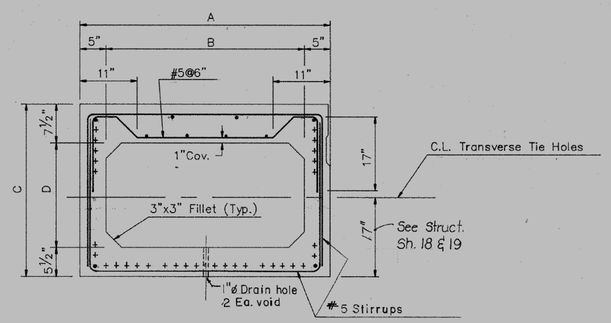

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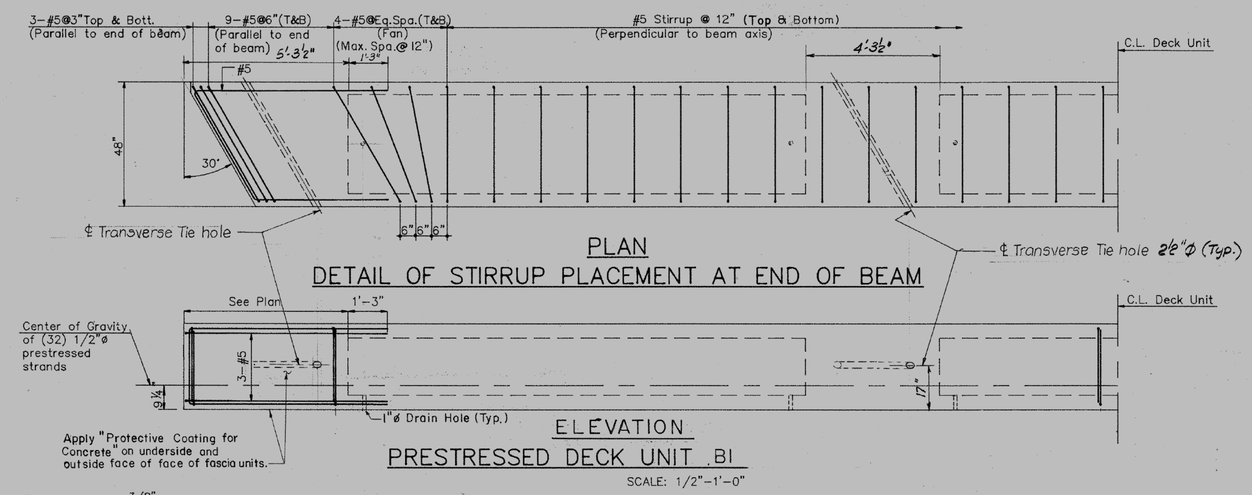


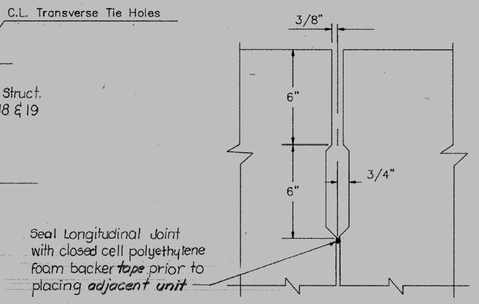
PLAN

DETAIL OF STIRRUP PLACEMENT AT END OF BEAM

ELEVATION

PRESTRESSED DECK UNIT B1

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



SHEAR KEY DETAIL

NOTE: SHEAR KEY TO BE ELIMINATED ON OUTSIDE FACE OF FASCIA UNITS

ESTIMATED CAMBERS AND DEFLECTIONS

BEAM ID.	CAMBER OR DEFLECTION TO BE CONSIDERED	(1) AT RELEASE VALUES IN INCHES	(2) AT ERECTION MULTIPLIER	(2) AT ERECTION VALUES IN INCHES	(3) LONG TERM MULTIPLIER	(3) LONG TERM VALUES IN INCHES
B1	CAMBER DUE TO PRESTRESS	+0.906	1.80X(1)	+1.631	2.45X(1)	+2.220
	DEFLECTION DUE TO BEAM OWN WEIGHT	−0.595	1.85X(1)	−1.101	2.70X(1)	−1.607
		+0.311 (CAMBER AT RELEASE)				
	DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD			−0.185	3.0X(2)	−0.555
				+0.345 (CAMBER AT ERECTION)		+0.058 (LONG TERM CAMBER)

BOX BEAM SCHEDULE

BEAM MARK	#REQD	WIDTH	DEPTH	LENGTH	#STRANDS	WEIGHT (TONS)
B1	2	4'-0"	2'-9"	~~60'-0"~~ 59'-9"	32	32.1

PRESTRESSED DECK UNITS

PRESTRESSED DECK UNITS SHALL BE AASHTO TYPE BII-48 & SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: f'c = 5000 psi
f'ci = 4000 psi

STRANDS FOR PRETENSIONING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
ULTIMATE STRENGTH (f's) = 270,000 psi
JACKING FORCE (fj) = 30,100 lbs. PER STRAND

PRESTRESSED ½"ø SEVEN WIRE STRESS RELIEVED STRANDS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 416 GRADE 270.

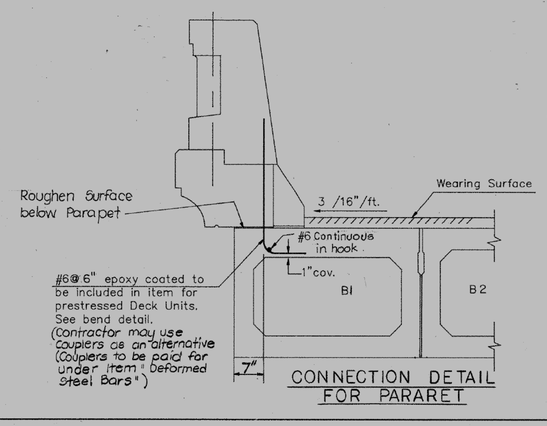
NO SUPERIMPOSED DEAD OR LIVE LOADS SHALL BE APPLIED TO THE ADJACENT DECK UNITS UNTIL THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS FULLY CURED.
EACH TRANSVERSE TIE SHALL BE TENSIONED TO 5,000 POUNDS PRIOR TO PLACEMENT OF GROUT IN SHEAR KEYS.
FOLLOWING PLACEMENT, AND CURING OF GROUT IN SHEAR KEYS EACH TRANSVERSE TIE SHALL FURTHER TENSIONED TO 20000 POUNDS
ALL REQUIRED DIMENSIONS AFFECTING PRECAST PRESTRESSED CONCRETE UNITS TO BE FIELD VERIFIED BEFORE PRECASTING IS STARTED.

POCKETS FOR TRANSVERSE TIE ANCHORAGES SHALL BE DRY PACKED FLUSH WITH EXTERIOR SURFACE OF THE FASCIA UNIT AFTER THE TRANSVERSE TENSIONING HAS BEEN COMPLETED.

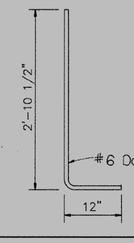
ALL NON-PRESTRESSED REINFORCEMENT SHALL BE EPOXY COATED.

PRESTRESSED STRANDS SHALL BE PLACED 2" ON CENTERS MINIMUM AND SHALL HAVE A MINIMUM COVER OF 1½"

FIELD VERIFICATION FOR EXIST. BRIDGE SUBSTRUCTURE & SUPERSTRUCTURE DIMENSIONS SHALL BE PERFORMED PRIOR TO FABRICATION OF NEW PRESTRESSED UNITS.



CONNECTION DETAIL FOR PARARET



PRESTRESSED DECK UNIT AASHTO TYPE – BII48 MODIFIED DIMENSIONS			
A	B	C	D
48"	38"	33"	20"

* Dimension may be varied to clear Prestressed Strands.

THIS SHEET NOT CORRECTED

D:\YCONNWP\CONN727B

NO.	DATE	DESCRIPTION
1	8/17/93	LENGTH OF UNITS 59'-9"

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

PRESTRESSED DECK UNITS B1

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER CF DRAFTER YB CHECKER SA
APPROVED A. Weisman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 16 OF 24

158-143 468-01 90

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\48_SB_158-211_Brg05763_OriginalDrawings_Deck_units.dgn

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

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

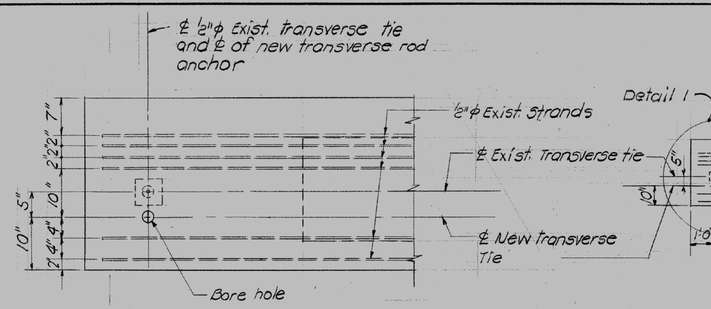
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-19
SHEET NO. 02.02.20

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

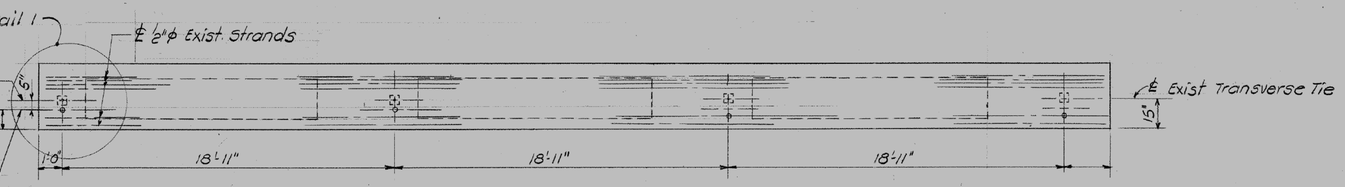
FORM NO ENG 15A ED. 1-98

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158 - 143	1990	15	92	187

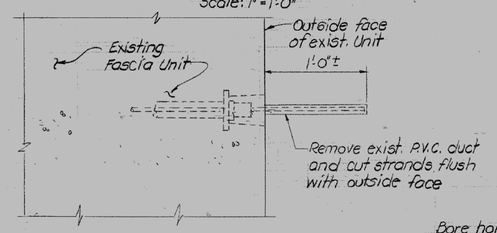


DETAIL 1

Scale: 1" = 1'-0"

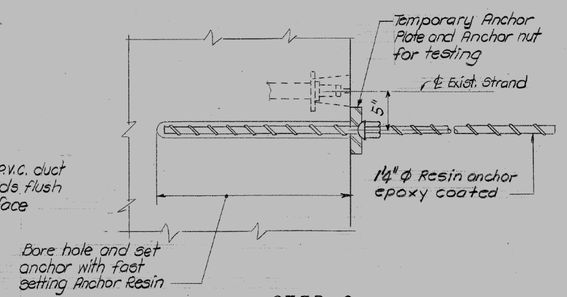


EXIST. FASCIA ELEVATION



STEP 1

NORTH FASCIA ONLY



STEP 2

NOTE

Work with Struct. Shs 15 & 16

Construction Sequences

Step 1

Remove exist. P.V.C. ducts and cut protruding strands flush with outside face (North fascia only).

Step 2

1). Bore hole and set Resin Anchor, test to specified test load according to special provision recommendations, use stressing jack for testing. Contractor shall submit to the Engineer for approval the depth and diameter of the hole.
The chemical anchor shall be able to resist 40 Kips (Design Force) pull-out load without failing

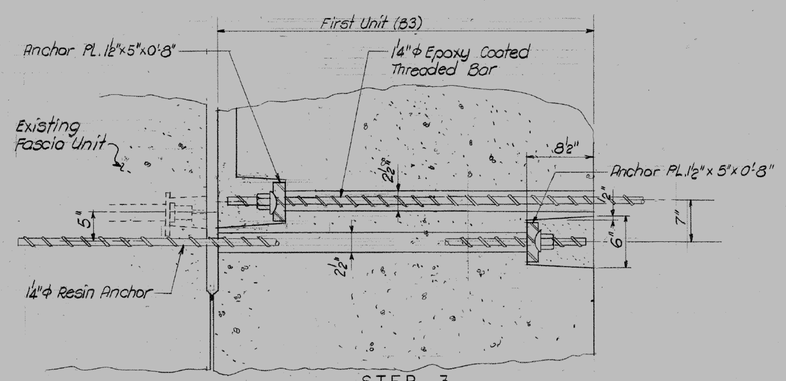
2. After testing remove anchor plate and anchor nut.

Step 3

Fasten First Unit B3 to existing Fascia Unit.
For Post tensioning the transverse rod & grouting shear keys see note 2 this sheet & Special Provisions

Step 4

See struct. Sh. 19



STEP 3

ANCHOR DETAIL

N.T.S.

NOTES:

1. The prestressing transverse rods shall be Epoxy Coated threaded bars, 150 KSI conforming to ASTM Designation A-722, Type II, cold stretched and stress relieved after the threading process.
2. Transverse Rods shall be stressed to a force of Five thousand (5,000) pounds per rod prior to grouting the shear key. Following installation and curing of grout in shear key each transverse rod shall be further tensioned to 20,000 pounds.
3. Contractor shall submit to the Engineer for approval the design computations, details & sequences for the proposed method of Post-Tensioning.
4. No super imposed dead or live loads shall be applied to the adjacent deck units until the mortar in the longitudinal shear key has fully cured

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

TRANSVERSE TENSIONING ROD DETAILS SH. I

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER S.A. DRAFTER D.B. CHECKER C.F.
APPROVED S. Weisman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO 05763 STRUCTURE SHEET NO. 18 of 24

158-143

468-01

92

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\49_SB_158-211_Brg05763_OriginalDrawings_Trans_Tensioning1.dgn

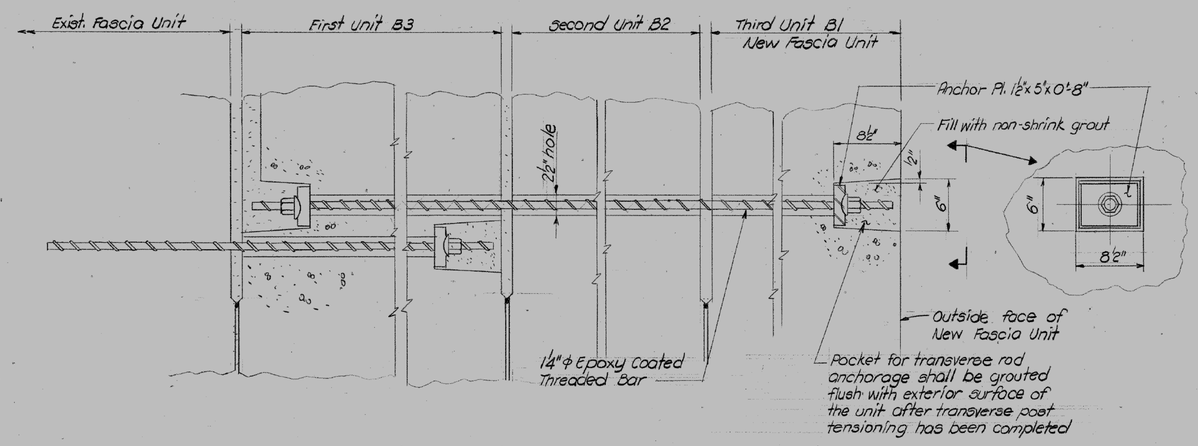
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Boak

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-20
SHEET NO. 02.02.21

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION								FORM NO. ENG. 1-SA ED. 1-88
F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	93	187



STEP 4

Note
For Notes see Structural Sh. No. 18

Construction Sequence
Step 4
Use 1¼"φ Epoxy coated threaded bar to fasten the Units B1 & B2 to Unit B3
For post tensioning transverse rod & grouting shear keys see note 2 Struct. Sh. 18 and Special Provisions

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

TRANSVERSE TENSIONING ROD DETAILS SH. 2

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER S.A. DRAFTER D.B. CHECKER C.F.
APPROVED S. Weissman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 19 OF 24

158-143 468-01 93

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\50_SB_158-211_Brg05763_OriginalDrawings_Trans_Tensioning2.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: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

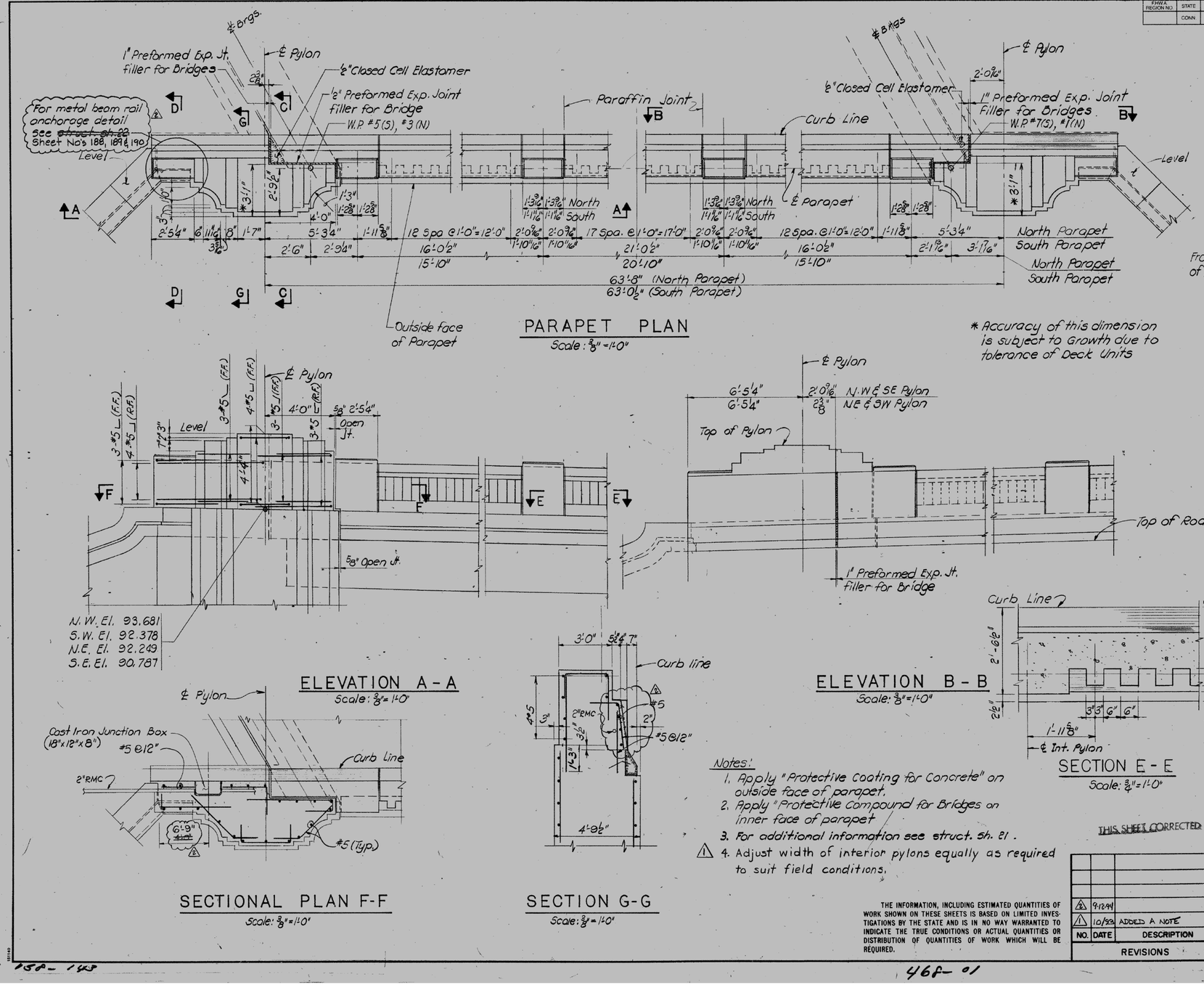
PROJECT NO. 158-211
DRAWING NO. S-21
SHEET NO. 02.02.22

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-68

FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN	WESTPORT	—	158 - 143	1990	15	94-I	187

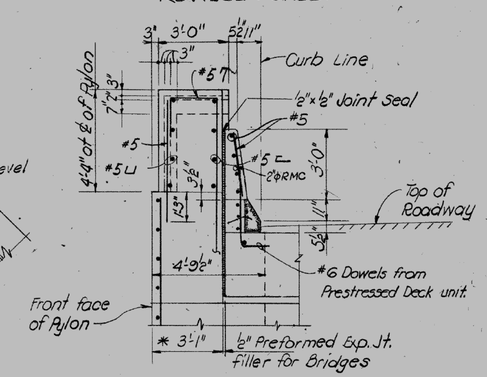
Revised . Sheet



PARAPET PLAN

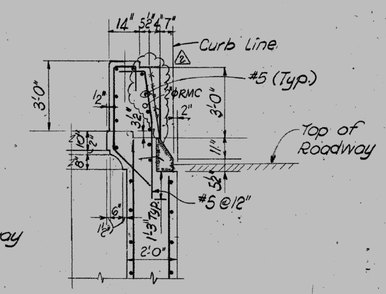
Scale: ⅜" = 1'-0"

* Accuracy of this dimension is subject to Growth due to tolerance of Deck Units



SECTION C-C

Scale: ⅜" = 1'-0"



SECTION D-D

Scale: ⅜" = 1'-0"

ELEVATION A-A

Scale: ⅜" = 1'-0"

ELEVATION B-B

Scale: ⅜" = 1'-0"

SECTION E-E

Scale: ⅜" = 1'-0"

Note: For Parapet reinf. at Junction Box see struct. Sh. 21

SECTIONAL PLAN F-F

Scale: ⅜" = 1'-0"

SECTION G-G

Scale: ⅜" = 1'-0"

Notes:

1. Apply "Protective Coating for Concrete" on outside face of parapet.
2. Apply "Protective compound for Bridges on inner face of parapet
3. For additional information see struct. Sh. 21.
4. Adjust width of interior pylons equally as required to suit field conditions.

THIS SHEET CORRECTED

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NO.	DATE	DESCRIPTION
2	9-12-94	
1	10/89	ADDED A NOTE

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

PARAPET PLAN, ELEVATION & SECTIONS

ENGINEER	AMMANN & WHITNEY	Consulting Engineers	
DESIGNER K.C.	DRAFTER D.B.	CHECKER C.F.	
APPROVED J. Weinman		DATE 9-10-90	
STRUCTURE NO. 158-143-3		BRIDGE LOC NO. 05763	STRUCTURE SHEET NO. 20 OF 24

158A-143

46A-01

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\51_SB_158-211_Brg05763_OriginalDrawings_Parapets.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211

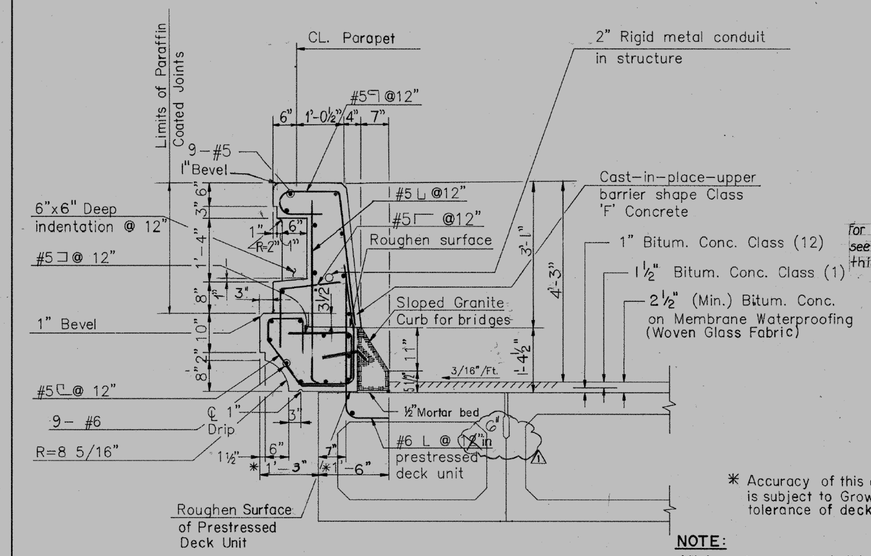
DRAWING NO. S-22

SHEET NO. 02.02.23

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FORM NO ENG 15A ED 6-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	95	187

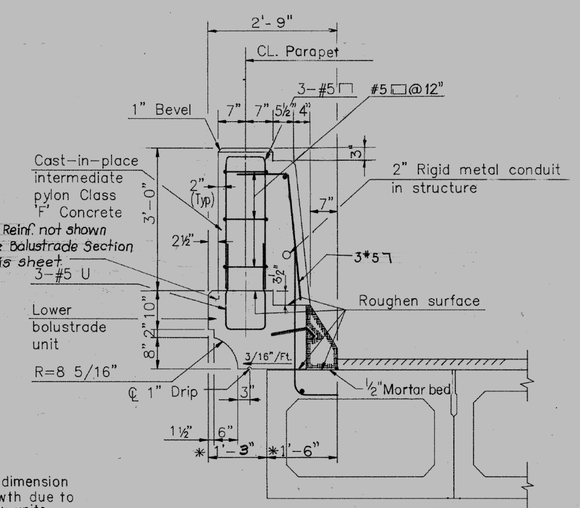


BALUSTRADE SECTION

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

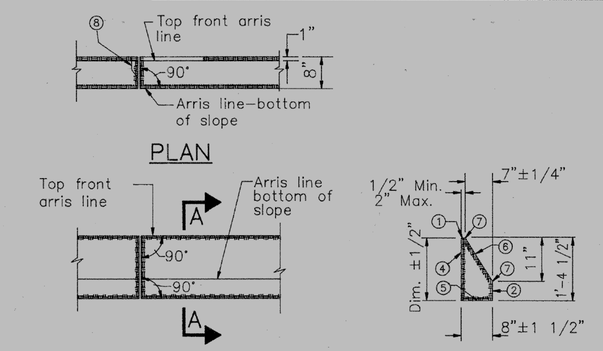
NOTE:
All bars in parapet shall have 2" cover, except as noted.

* Accuracy of this dimension is subject to Growth due to tolerance of deck units.



INTERMEDIATE PYLON SECTION

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

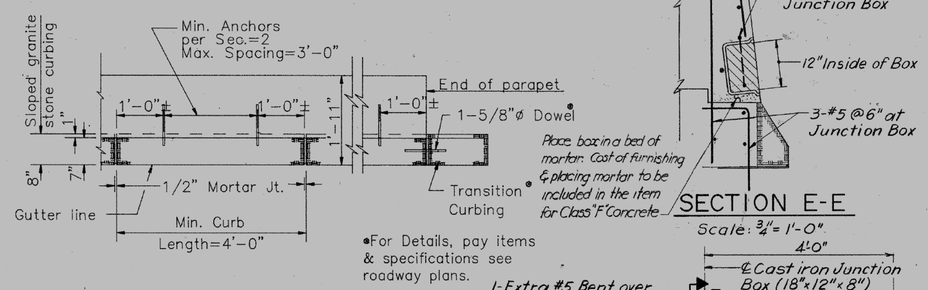


SLOPED GRANITE STONE CURBING FOR BRIDGE

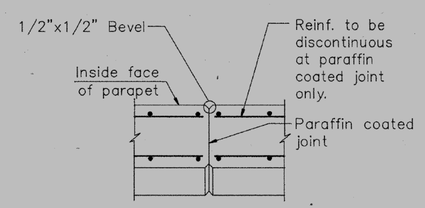
SCALE: 3/4"=1'-0"

TOLERANCE NOTES GRANITE STONE CURBING

1. Sawed surface approximating a true plane with no projections or depressions greater than 1/4".
2. Smooth, quarry split surface, free of drill holes with projections or depressions not over 1/2".
4. Split surface shall be free of any projections over 1".
5. Sawed or split surface approximating a true plane to the specified dimensions with projection no greater than 1/4".
6. Sawed surface free of all quarry sawing and cutting marks with allowable depr. or proj. not over 1/4".
7. These arris lines shall be straight and true within a ± tolerance of 1/4".
8. Ends of stones at intermediate joints shall be held full for 2" from all exposed surfaces with a permitted variation of 1/4". Beyond this area the joint may fall away a max. of 3".

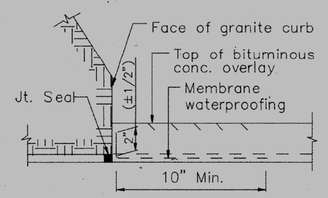


PLAN OF GRANITE CURB



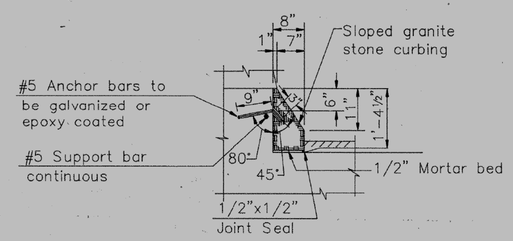
PARAFFIN JOINT

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



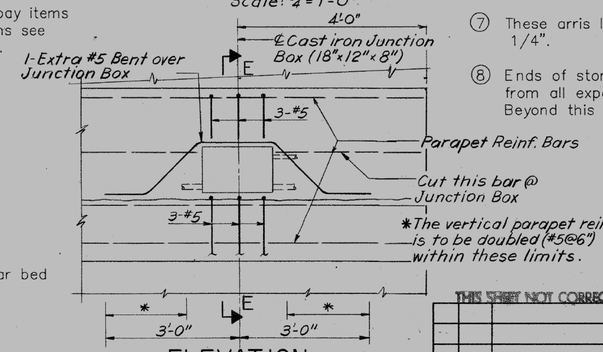
TREATMENT OF MEMBRANE WATERPOOFING AT GUTTER

SCALE: 3"=1'-0"



TYPICAL SECTION THRU SLOPED GRANITE STONE CURBING

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



ELEVATION PARAPET REINFORCEMENT JUNCTION BOX

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

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION
1	8/17/93	DOWELS INTO PARAPET #6 @ 6"

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

MISCELLANEOUS CONCRETE DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER KC DRAFTER YB CHECKER SA
APPROVED A. Whitney DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 21 OF 24

158-143 46f 01 95

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\52_SB_158-211_Brg05763_OriginalDrawings_Misc_Concrete_Details.dgn

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

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

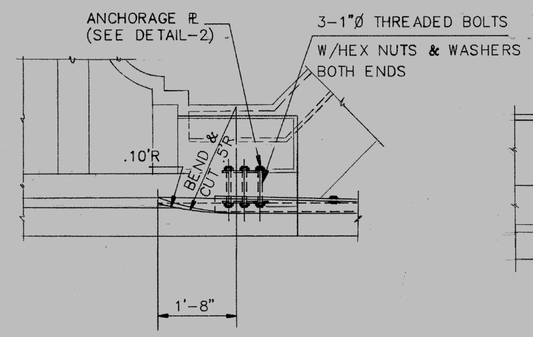
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-23
SHEET NO. 02.02.24

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

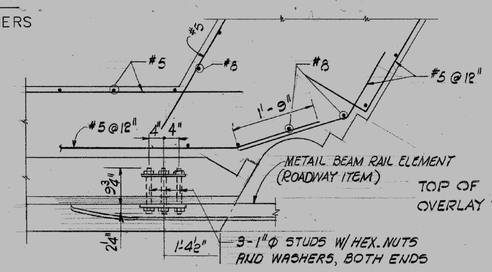
FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	96	187

See Revised Sheet 96-1



PLAN (LEADING END) AT PARAPET

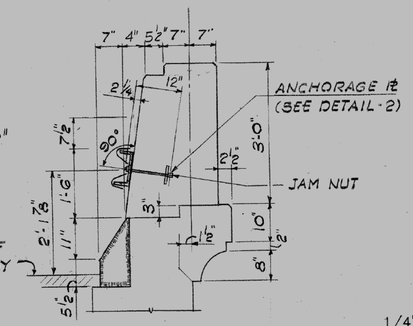
SCALE: 3/4"=1'-0"



SECTION X-X

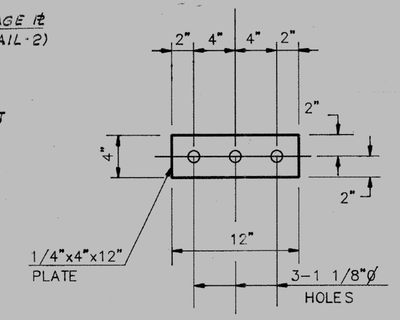
SCALE: 3/4"=1'-0"

For location see Struct. Sh. No 7 – No 10 (Typ. at four locations)



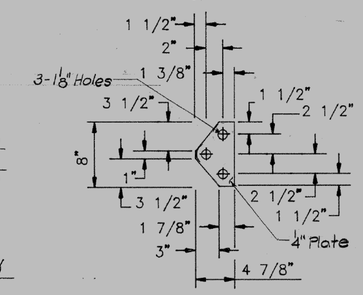
LEADING END SECTION AT PARAPET

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



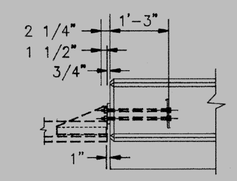
DETAIL-2

N.T.S.



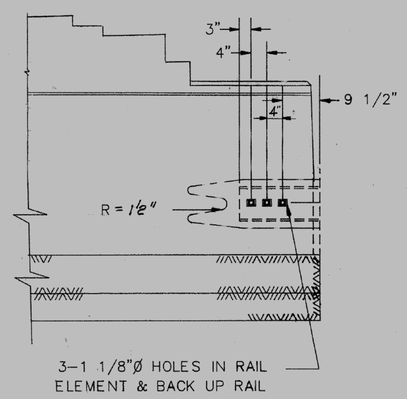
DETAIL-1

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



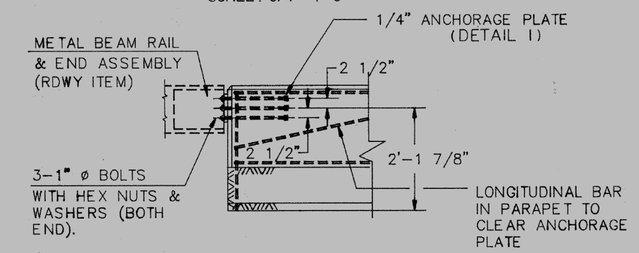
PLAN (TRAILING END) AT PARAPET

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



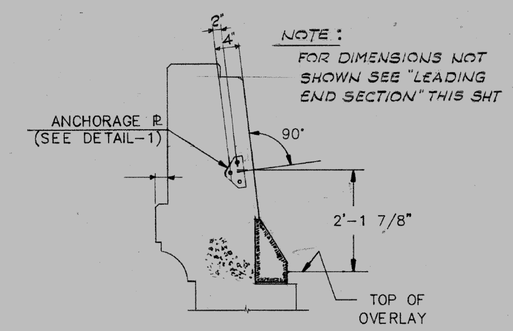
ELEVATION (LEADING END) AT PARAPET

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



ELEVATION (TRAILING END) AT PARAPET

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



TRAILING END SECTION AT PARAPET

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

REVISION OF 96
SHOWN ON SHEET 96-1
INCORPORATED ON THIS SHEET NO

D:\YB2\R-MD106

THIS SHEET CORRECTED

NOTE:

ANCHOR BOLTS SHALL CONFORM TO REQUIREMENTS OF ASTM A449 WITH NUTS & WASHERS CONFORMING TO A563 GRADE B. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM A153. ANCHORAGE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ALL ANCHORAGE MATERIAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "DEFORMED STEEL BARS."

NOTE: LEADING END AT NE PARAPET CORNER OF ABUTMENT 2
LEADING END AT SW PARAPET CORNER OF ABUTMENT 1
TRAILING END AT SE PARAPET CORNER OF ABUTMENT 2
TRAILING END AT NW PARAPET CORNER OF ABUTMENT 1

METAL BEAM RAIL TYPE R-I

PERMANENT ATTACHMENT TO NEW BRIDGE PARAPETS

NO.	DATE	DESCRIPTION
		REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

MISCELLANEOUS DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER DM DRAFTER YB CHECKER SA
APPROVED S. Weisman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 22 OF 24

158-143 468-01 96

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\53_SB_158-211_Brg05763_OriginalDrawings_Misc_Details.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

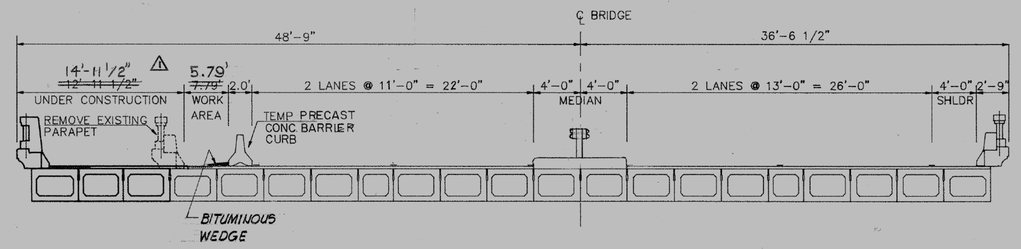
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-24
SHEET NO. 02.02.25

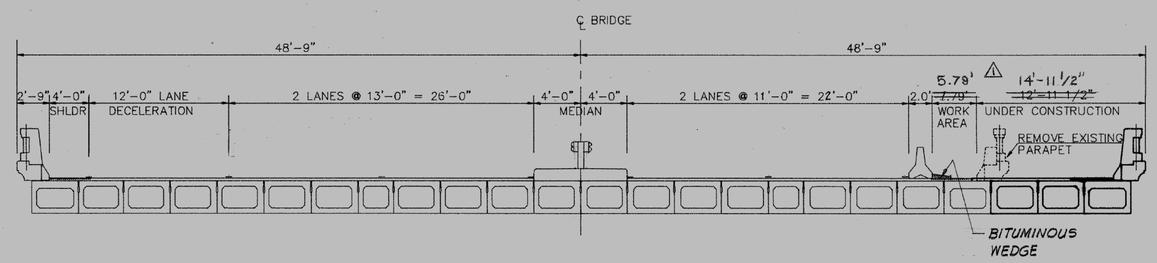
STATE OF CONNECTICUT -- DEPT. OF TRANSPORTATION

FORM NO ENG 15A ED 4-80

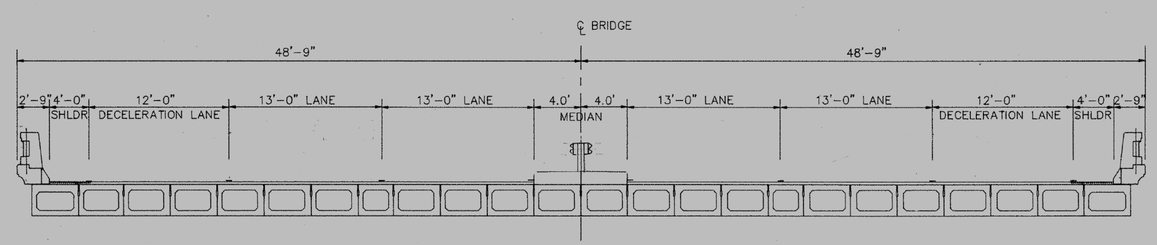
FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	———	158-143	1990	15	97	187



STAGE 1A



STAGE 1B



FINAL CONDITION

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

CONSTRUCTION SEQUENCES:

STAGE 1A :

1. PLACE TEMPORARY BARRIER
2. INSTALL TEMPORARY SHEET PILING AS SHOWN ON STRUCTURE SHEET 14.
3. REMOVE EXIST. METAL BRIDGE RAIL & SALVAGE, DEMOLISH EXIST. PARAPET AND REINF. PROTRUDING FROM DECK UNIT AS SHOWN ON STRUCT. SHEET 1.
4. DEMOLISH PORTIONS OF WINGWALLS AND ABUTMENTS AS SHOWN ON STRUCTURE SHEETS 4, 7 & 9.
5. CONSTRUCT NEW ABUTMENT PORTIONS AND WINGWALLS.
6. CUT SHEAR KEYS IN EXISTING FASCIA DECK UNIT AS SHOWN ON STRUCTURE SHEET 15.
7. DRILL EXISTING DECK UNITS FOR NEW LATERAL TIE RODS AND INSTALL NEW CONCRETE DECK UNITS AS SHOWN ON STRUCTURE SHEET 18. APPROPRIATE MEASURES MUST BE TAKEN NOT TO DAMAGE ELASTOMERIC PADS WHEN INSTALLING DECK UNITS
8. CONSTRUCT BACKWALL AND THE REMAINING PORTION OF PYLON ABOVE BRIDGE SEAT.
9. CONSTRUCT NEW PARAPET.
10. CONSTRUCT NEW APPROACH SLAB AND CONNECT TO EXISTING AS ON STRUCTURE SHEET 14.
11. INSTALL METAL BEAM RAIL AND CURBING AT APPROACHES. (TRANSITION CURB)
12. INSTALL MEMBRANE WATERPROOFING AND BITUMINOUS CONCRETE OVERLAY.

STAGE 1B :

1. RELOCATE TEMPORARY BARRIER
2. INSTALL TEMPORARY SHEET PILING AS SHOWN ON STRUCTURE SHEET 14.
3. DEMOLISH EXISTING PARAPET AND REINFORCEMENT PROTRUDING FROM DECK UNIT AS SHOWN ON STRUCT. SHEET 1.
4. DEMOLISH PORTIONS OF WINGWALLS AND ABUTMENTS AS SHOWN ON STRUCTURE SHEETS 6, 8 & 10.
5. CONSTRUCT NEW ABUTMENT PORTIONS AND WINGWALLS.
6. CUT SHEAR KEYS IN EXISTING FASCIA DECK UNITS AS SHOWN ON STRUCTURE SHEET 15.
7. DRILL EXISTING DECK UNITS FOR NEW LATERAL TIE RODS AND INSTALL NEW CONCRETE DECK UNITS AS SHOWN ON STRUCTURE SHEET 18. APPROPRIATE MEASURES MUST BE TAKEN NOT TO DAMAGE ELASTOMERIC PADS WHEN INSTALLING DECK UNITS.
8. CONSTRUCT BACKWALL AND THE REMAINING PORTION OF PYLON ABOVE BRIDGE SEAT.
9. CONSTRUCT NEW PARAPET.
10. CONSTRUCT NEW APPROACH SLAB AND CONNECT TO EXISTING AS ON STRUCTURE SHEET 14.
11. INSTALL METAL BEAM RAIL AND CURBING AT APPROACHES (TRANSITION CURB).
12. INSTALL MEMBRANE WATERPROOFING AND BITUMINOUS CONCRETE OVERLAY.

NOTE:

STAGE 1A AND STAGE 1B CAN BE STAGED TO OCCUR SIMULTANEOUSLY.

THIS SHEET CORRECTED

D:\YCONNWP\STAGE727

NO.	DATE	DESCRIPTION
1	10/93	REVISED DIMENSIONS

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WILTON ROAD (ROUTE 33)

CONSTRUCTION SEQUENCES

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER CF DRAFTER YB CHECKER SA
APPROVED S. Weissman DATE 9-10-90
STRUCTURE NO. 158-143-3 BRIDGE LOG NO. 05763 STRUCTURE SHEET NO. 23 OF 24

158-143 468-01 97

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\54_SB_158-211_Brg05763_OriginalDrawings_Staging.dgn

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

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

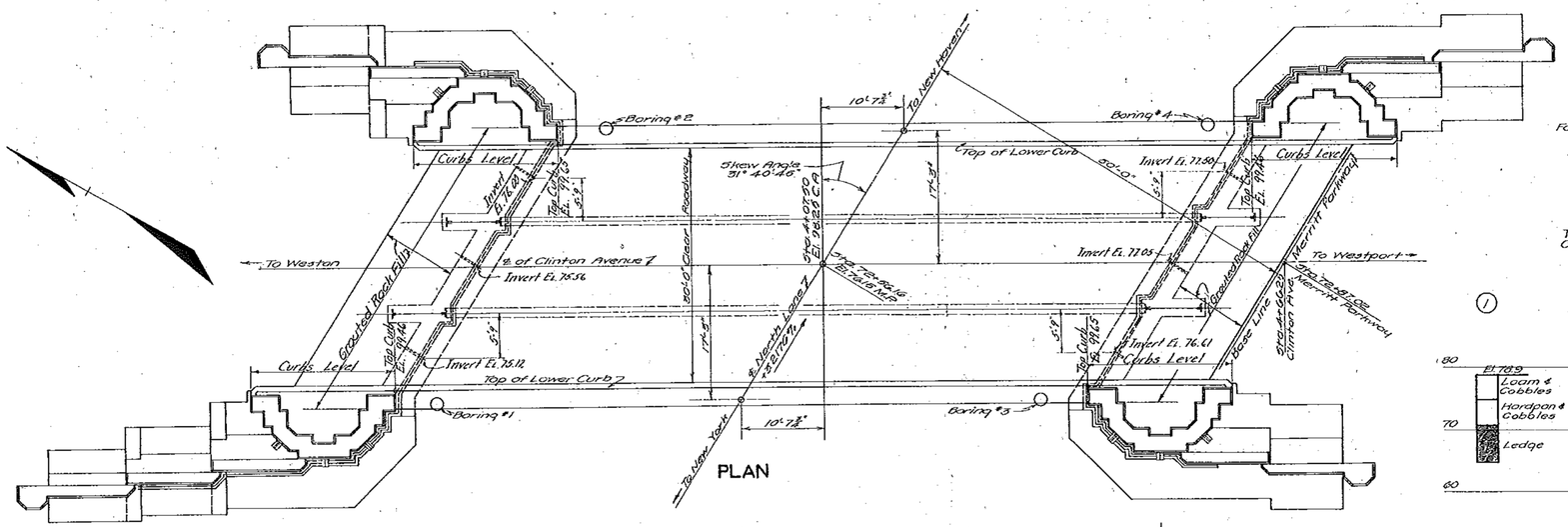
TOWN: WESTPORT/FAIRFIELD

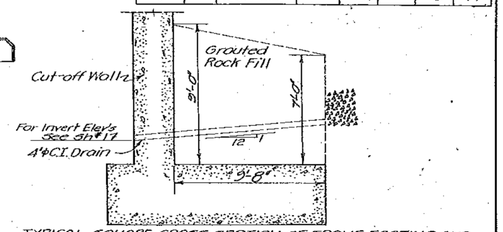
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 05763 WILTON RD (RT 33)

PROJECT NO. 158-211
DRAWING NO. S-25
SHEET NO. 02.02.26

Revisions in Red to Show Bridge as Constructed

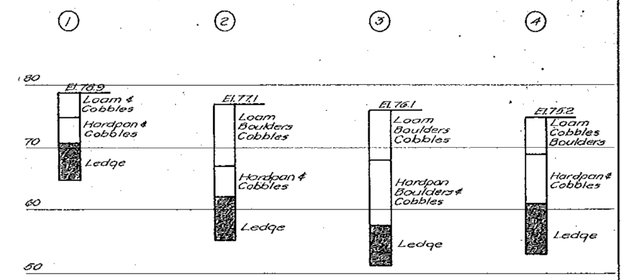
FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN	WESTPORT	-	1939		10	14

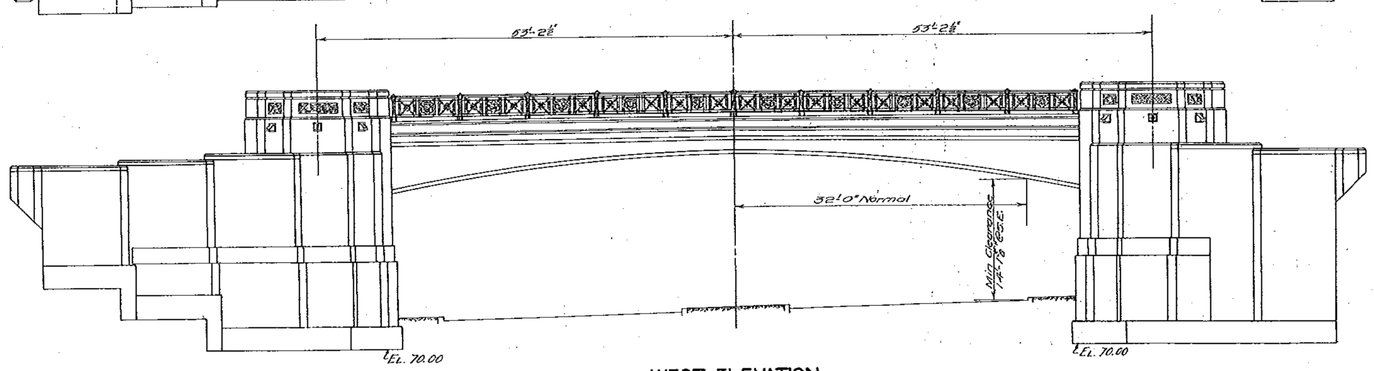




TYPICAL SQUARE CROSS SECTION OF FRAME FOOTING AND CUT-OFF WALL SHOWING GROUTED ROCK FILL AND DRAINS

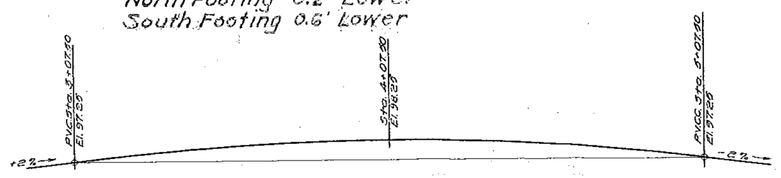
TEST BORINGS





WEST ELEVATION

N. W. Pylon & Wing Footing Lowered 1.0'
North Footing 0.2' Lower
South Footing 0.6' Lower



PROFILE OF CENTER LINE OF CLINTON AVENUE

QUANTITIES

Unclassified Excavation	925 C.Y.	1068.
Class A (1-2½-4) Concrete	1,231 C.Y.	1229.4
½" Cork or Rubber Exp. Jt. Filler	494 S.F.	
Deformed Steel Bars	~~84,920~~ Lbs.	88849.
Structural Steel	~~285,200~~ Lbs.	281689.
Waterproof Painting	~~980~~ S.Y.	954.
Ornamental Iron Bridge Railing	~~175~~ L.F.	174.56
Precast Concrete Facing	~~6770~~ S.F.	6769.
Precast Concrete Coping	300 C.F.	
Portland Cement	~~1,900~~ Bbl.	1848.5
Grouted Rock Fill	~~225~~ C.Y.	222.

NOTES:—
for H-20 Loading C.S.H.D. Specifications
ied Excavation to include only that required
adway excavation (including side slopes) has
npleted.
ncrete (1-2½-4) to be used throughout.
ng steel to consist of deformed bars of an
d type.
of Paint to be used on backs of frame leg
nents and cut-off walls above footings, and on
wing walls, from batter line to tops of footings.
o be kept at approximately the same height at
d of frame while being placed and thoroughly
in layers. Boulders and rocks to be kept out of fill.
r bolts (not swedge bolts) to be set before
ooting concrete is placed.
d steel when not encased in concrete shall
ed in accordance with the specifications and
ed by the Engineer.
or for Precast Facing is to submit a complete
plan for approval, showing location of all tyscrews,
ll furnish copies to the general contractor for his use.
cial provisions of Specifications.
or is to submit full size detail and sample of ornamental
ling for approval. See special provisions of Specifications.
for telephone conduits will be furnished at site and shall be installed by Contractor
by S.N.E. Tel. Co.
lling to be included in general cost of Contract and there will be no direct payment therefor.

APPROVED November 7 1938
L. F. Willis
ENGINEER OF BRIDGE DESIGN
APPROVED _____ 1938
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED _____ 1938
DEPUTY HIGHWAY COMMISSIONER

00729

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
UNDER
CLINTON AVE.
STRUCTURAL STEEL RIGID FRAME
GENERAL PLAN

SCALES ⅛"-1'-0"
MADE BY F.J.T. Jr. F.C.S. DATE 8-2-38
CHECKED BY G.S.B. DATE 11-2-38
APPROVED _____ DATE _____
W.O. NO. 180-71-A
BRIDGE SHEET NO. 1 of 5

REVISIONS		
NO.	DATE	DESCRIPTION
1	2/14/39	Cross Ties eliminated
2	"	Grouted rock fill shown
3	"	Quantities changed

STANDARD No. 10

180 71

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\1_SB_158-211_Brg00729_OriginalDrawings_General_Plan.dgn

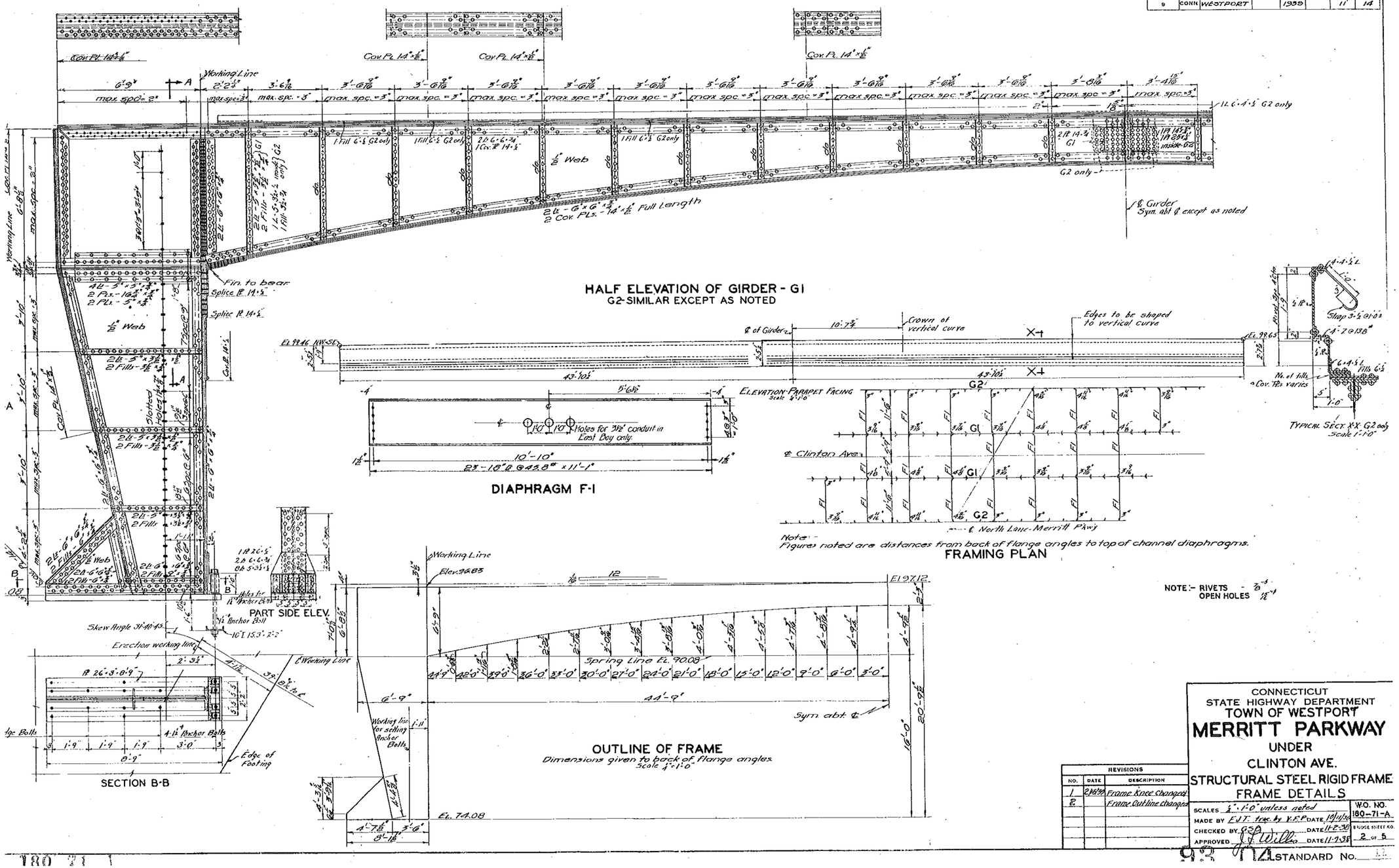
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Beck

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00729 CLINTON AVE

PROJECT NO. 158-211
DRAWING NO. S-26
SHEET NO. 02.02.27

FED. ROAD DIST. NO	STATE	TOWN	FED. AID PROJ. NO	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN	WESTPORT		1939		11	14



CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
UNDER
CLINTON AVE.
STRUCTURAL STEEL RIGID FRAME
FRAME DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION
1	2/16/39	Frame Knee Changed
2		Frame Outline changed

SCALES 1/4"=1'-0" unless noted
MADE BY EJT. trac. by V.F.P. DATE 10/11/38
CHECKED BY GSB DATE 11-2-38
APPROVED J.F. Willis DATE 11-7-38
W.O. NO. 180-71-A
BRIDGE SHEET NO. 2 OF 5
STANDARD No. 12

180 71 1

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

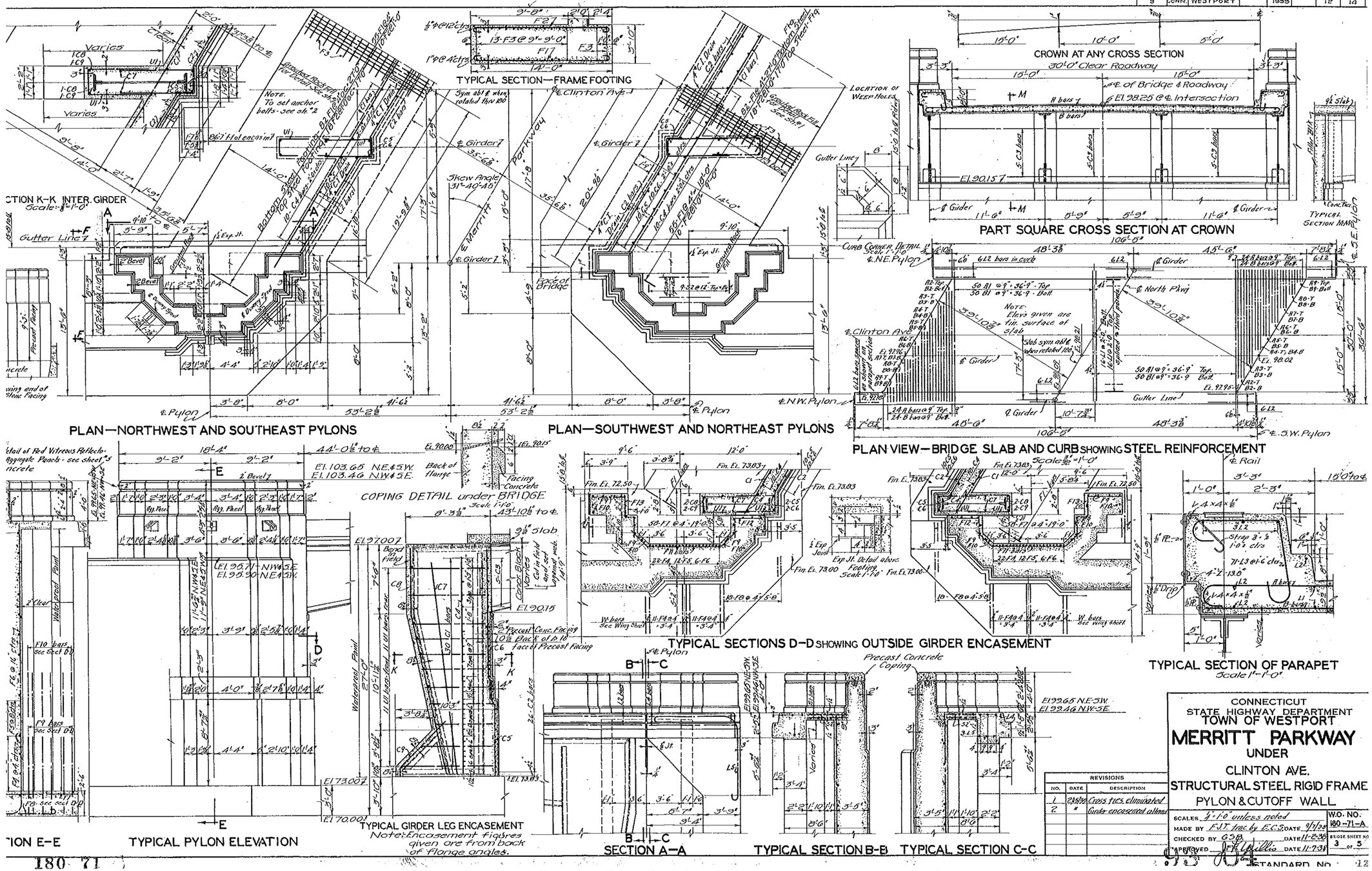
Filename: ...\2_SB_158-211_Brg00729_OriginalDrawings_Frame.dgn

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: EXISTING PLANS BRIDGE NO. 00729 CLINTON AVE

PROJECT NO. 158-211
DRAWING NO. S-27
SHEET NO. 02.02.28



CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
UNDER
CLINTON AVE.
STRUCTURAL STEEL RIGID FRAME
PYLON & CUTOFF WALL

REVISIONS		
NO.	DATE	DESCRIPTION
1	2/25/36	Cross ties eliminated
2	"	Girder encasement altered

SCALES 1/4"=1'-0" unless noted
MADE BY F.J.T. trac by E.C.S. DATE 9/7/38
CHECKED BY GSB DATE 11-2-38
APPROVED J.H. Phillips DATE 11-7-38
W.O. NO. 180-71-A
BRIDGE SHEET NO. 3 OF 5
STANDARD NO. 12

180 71

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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-	-	-	-
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\3_SB_158-211_Brg00729_OriginalDrawings_Pylons.dgn

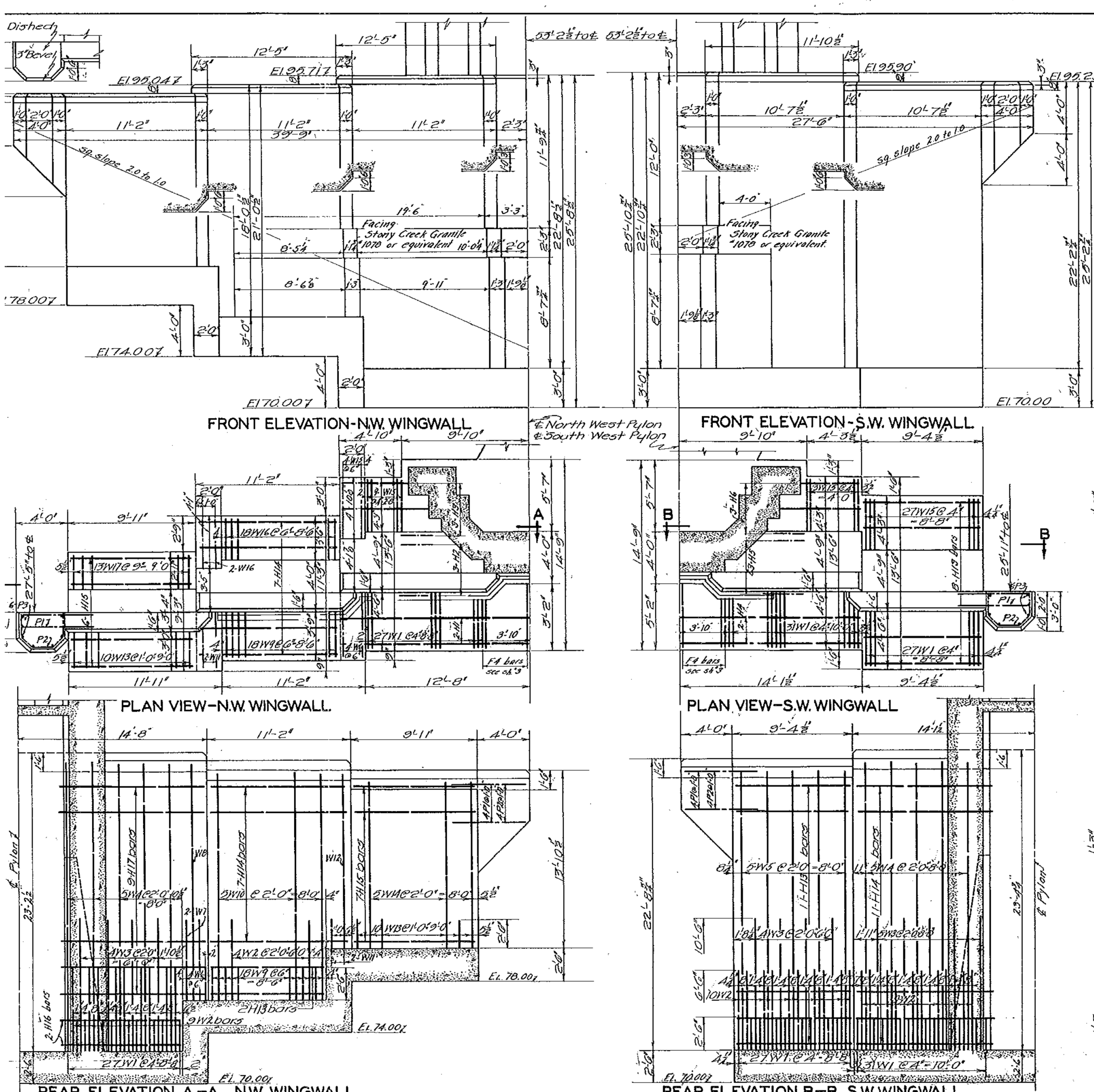
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Bade

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

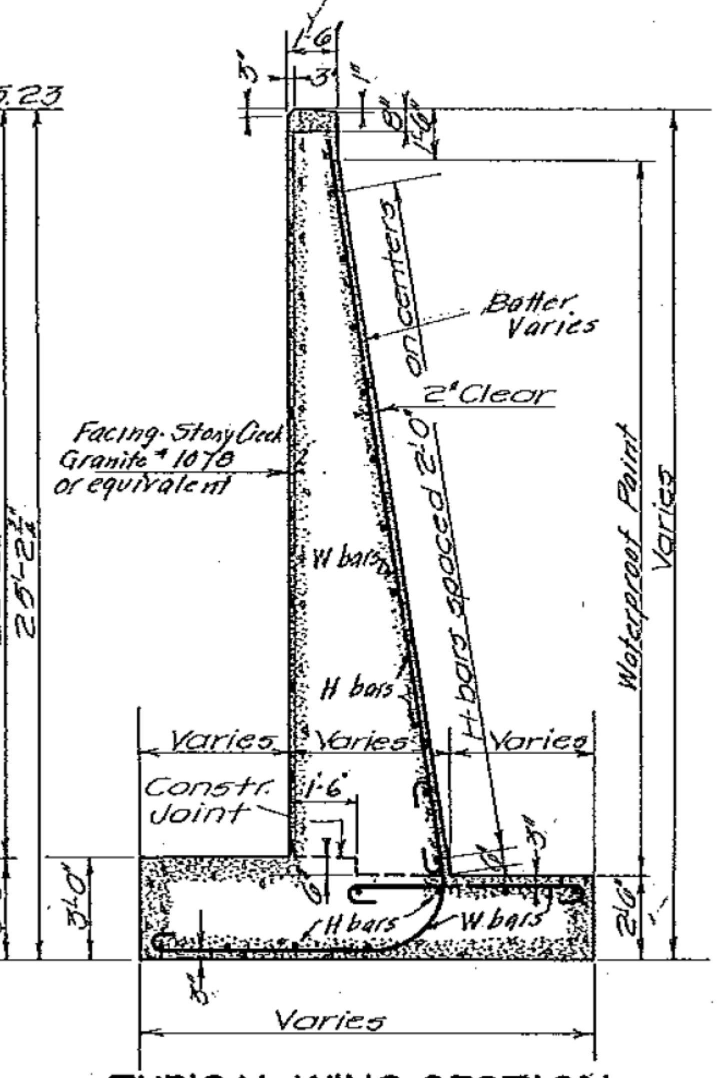
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00729 CLINTON AVE

PROJECT NO. 158-211
DRAWING NO. S-28
SHEET NO. 02.02.29

FED ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	CONN.	WESTPORT		1939		13	14

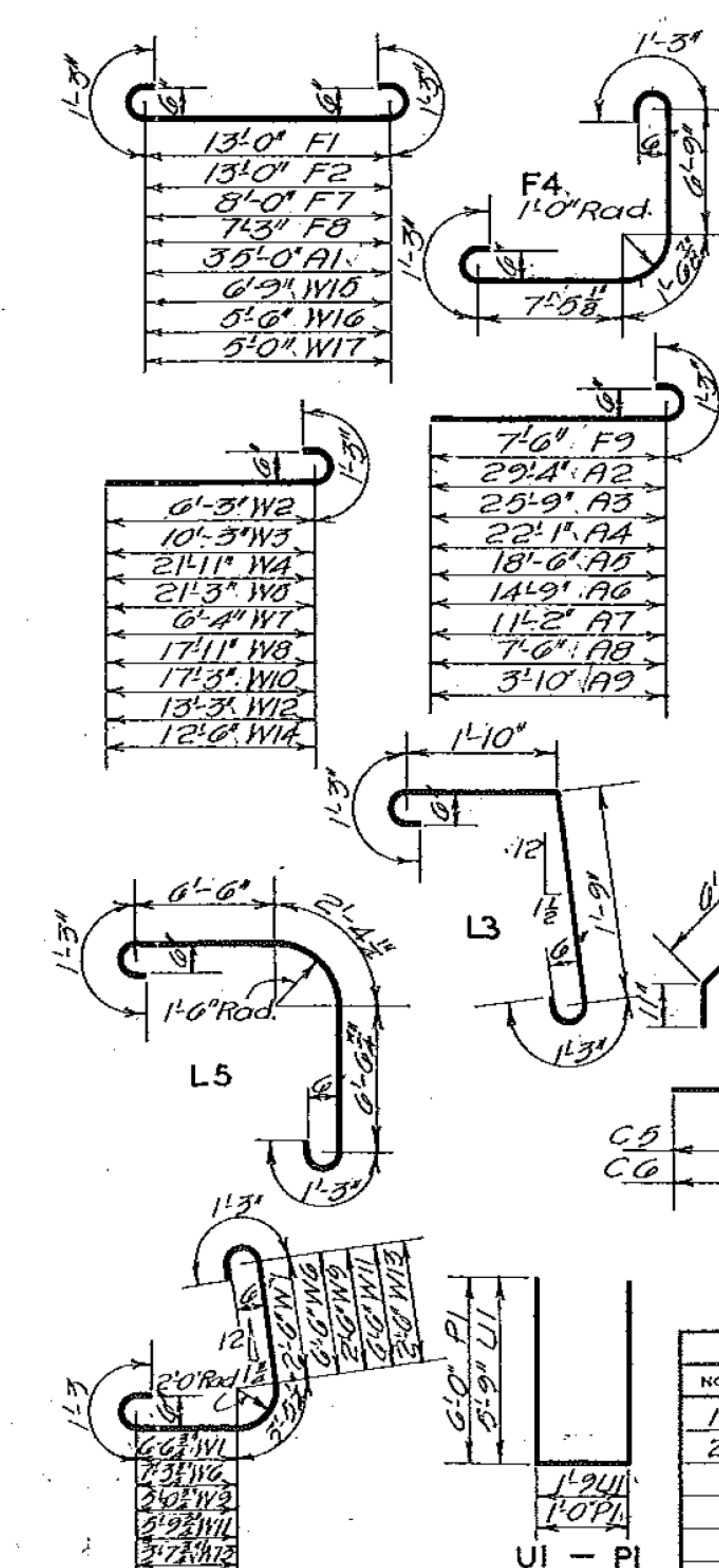


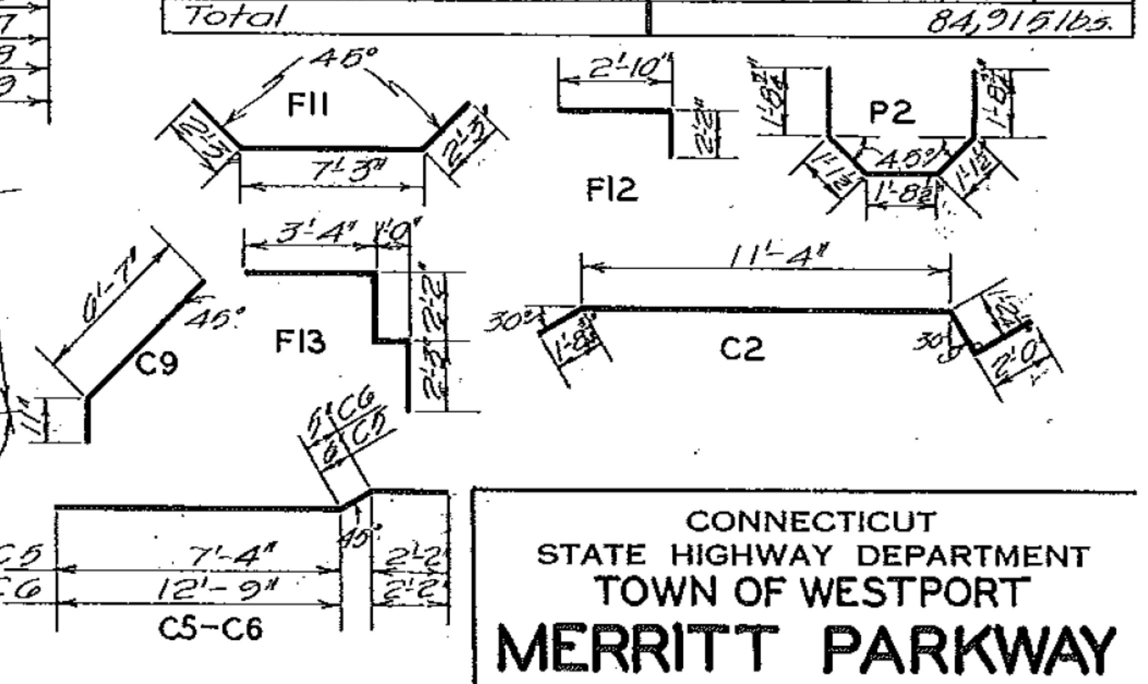
180 71



TYPICAL WING SECTION

BAR BILL - Sh. #3						BAR BILL - Sh. #4 & #5					
PYLON + CUT-OFF WALL						WINGWALLS					
MARK	SIZE	NO.	LENGTH	WEIGHT	REMARK	MARK	SIZE	NO.	LENGTH	WEIGHT	REMARK
F1	1¼φ	272	15'6"	11383	Detailed	W1	¾φ	176	15'0"	4013	Detailed
F2	½φ	54	15'6"	569	"	W2	"	68	7'6"	775	"
F3	7/8φ	120	24'6"	6086	Straight	W3	"	28	11'6"	489	"
F4	7/8φ	88	18'3"	3324	Detailed	W4	"	21	23'2"	740	"
F5	¾φ	48	9'0"	657	Straight	W5	"	10	22'6"	342	"
F6	"	24	26'9"	976	"	W6	"	8	19'9"	240	"
F7	7/8φ	232	10'6"	5043	Detailed	W7	"	3	7'7"	35	"
F8	"	72	9'9"	1453	"	W8	"	2	19'2"	58	"
F9	½φ	76	8'9"	452	"	W9	"	38	13'6"	780	"
F10	"	76	26'9"	1382	Straight	W10	"	10	18'6"	281	"
F11	"	56	11'9"	447	Detailed	W11	"	2	18'3"	55	"
F12	"	56	5'0"	190	"	W12	"	1	14'6"	22	"
F13	"	56	8'9"	333	"	W13	"	10	12'1"	184	"
C1	¾φ	120	23'3"	4241	Straight	W14	"	5	13'9"	105	"
C2	"	156	16'3"	3853	Detailed	W15	7/8φ	112	9'3"	2145	"
C3	"	30	13'0"	593	Straight	W16	¾φ	40	8'0"	486	"
C4	½φ	46	21'9"	680	"	W17	"	13	7'6"	148	"
C5	"	52	10'0"	354	Detailed	H1	½φ	2	18'3"	25	Straight
C6	"	52	15'4"	542	"	H2	"	3	22'3"	45	"
C7	"	16	21'0"	228	Straight	H3	"	3	26'0"	53	"
C8	"	16	24'6"	267	"	H4	"	2	17'9"	24	"
C9	"	16	7'6"	82	Detailed	H5	"	3	21'9"	44	"
U1	"	176	13'3"	1586	"	H6	"	3	25'6"	52	"
A1	7/8φ	100	37'6"	7763	Detailed	H7	"	2	18'9"	26	"
A2	"	6	30'7"	380	"	H8	"	3	22'9"	46	"
A3	"	6	27'0"	335	"	H9	"	3	26'6"	54	"
A4	"	6	23'4"	290	"	H10	"	2	18'6"	25	"
A5	"	6	19'9"	245	"	H11	"	3	22'6"	46	"
A6	"	6	16'0"	199	"	H12	"	3	26'3"	53	"
A7	"	6	12'5"	154	"	H13	"	21	9'0"	129	"
A8	"	6	8'9"	109	"	H14	"	25	11'0"	187	"
A9	"	6	5'1"	63	"	H15	"	29	9'9"	192	"
B1	"	100	35'6"	7349	Straight	H16	"	23	10'0"	156	"
B2	"	6	29'7"	367	"	H17	"	29	12'0"	237	"
B3	"	6	26'0"	323	"	P1	"	16	13'0"	141	Detailed
B4	"	6	22'4"	277	"	P2	"	16	7'5"	81	"
B5	"	6	18'9"	233	"	P3	½φ	24	3'3"	53	Straight
B6	"	6	15'0"	186	"						
B7	"	6	11'5"	142	"						
B8	"	6	7'9"	96	"						
B9	"	6	4'1"	51	"						
L1	¾φ	96	33'2"	4840	Straight	PYLON SLAB Sh#3					
L2	"	36	37'4"	2043	"	S1	½φ	32	11'6"	280	Straight
L3	"	142	6'1"	1312	Detailed	S2	"	72	4'0"	196	"
L4	"	8	8'0"	97	Straight						
L5	"	12	17'11"	327	Detailed						
Total										84,915 lbs.	





REVISIONS		
NO.	DATE	DESCRIPTION
1	2/11/39	Slope lines added
2	"	Bar bill changed

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT

MERRITT PARKWAY
UNDER
CLINTON AVE.

STRUCTURAL STEEL RIGID FRAME
WING WALL DETAILS

SCALES ¼" = 1'0"
MADE BY F.J.T. trac. E.C.S. DATE 9/28/38
CHECKED BY G.S.B. DATE 11-2-38
APPROVED J. F. Willis DATE 11-7-38
W.O. NO. 180-71-A
BRIDGE SHEET NO. 4 OF 6
93 04 STANDARD No. 113

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: ...\4_SB_158-211_Brg00729_OriginalDrawings_Wingwalls.dgn

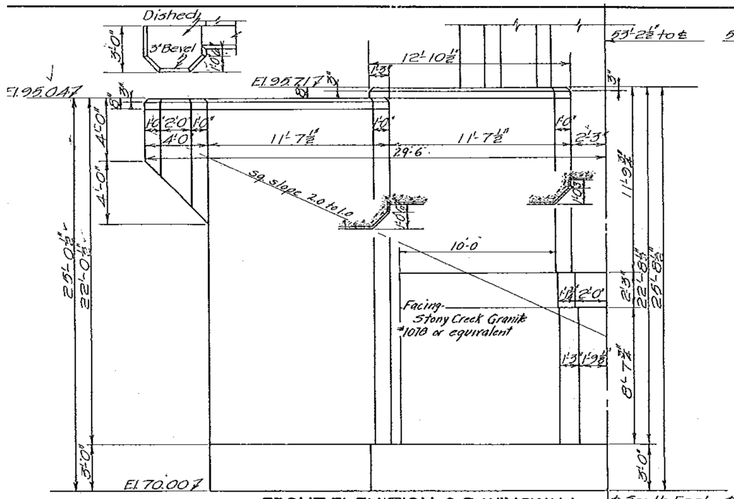
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Baker

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

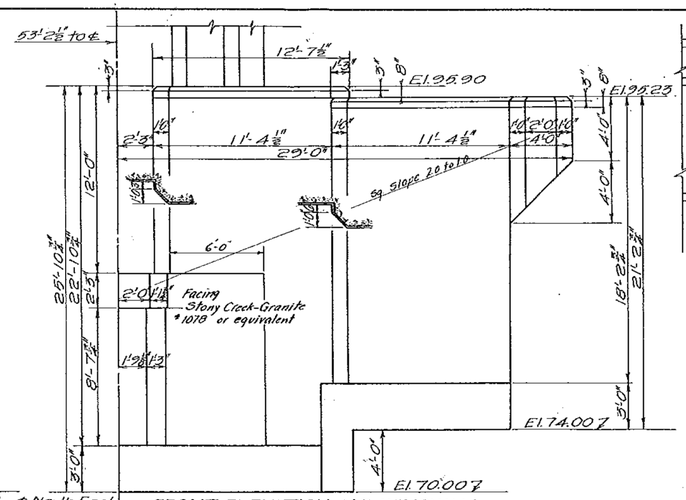
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00729 CLINTON AVE

PROJECT NO. 158-211
DRAWING NO. S-29
SHEET NO. 02.02.30

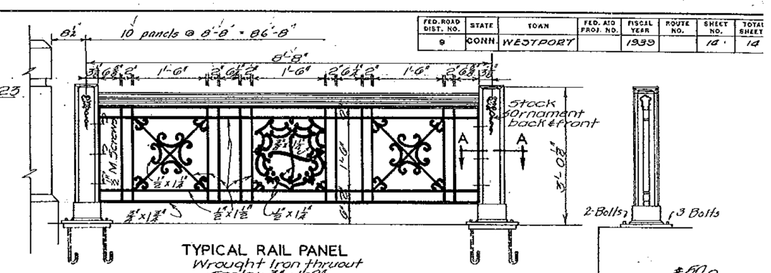
FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEET
9	CONN.	WESTPORT		1939		14	14



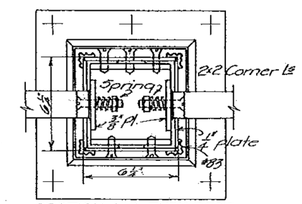
FRONT ELEVATION-S.E. WINGWALL



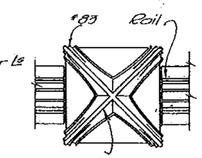
FRONT ELEVATION-N.E. WINGWALL



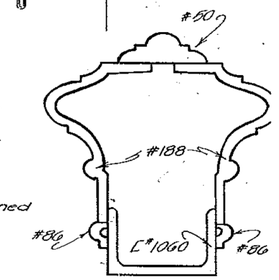
TYPICAL RAIL PANEL
Wrought Iron thruout
Scale:- ¾" = 1'-0"



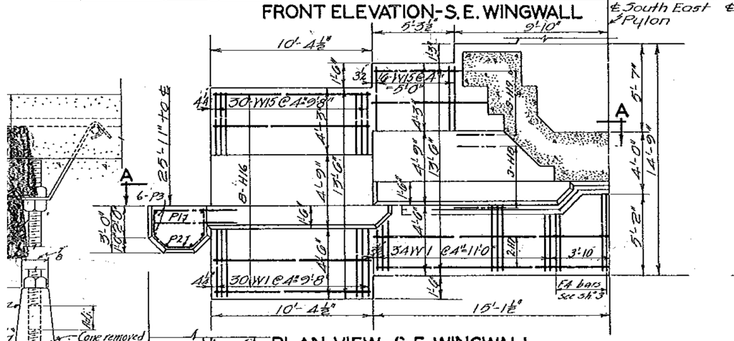
SECTION A-A THRU POST



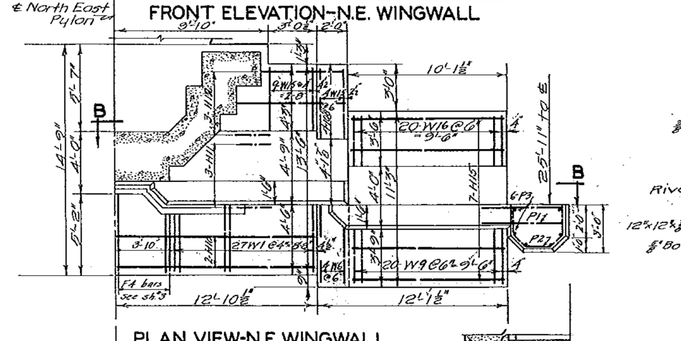
PLAN OF POST CAP



TOP RAIL
FULL SIZE



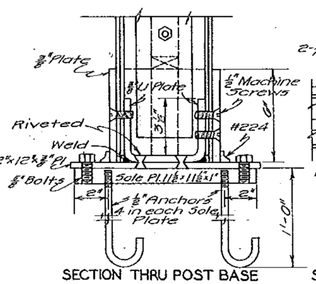
PLAN VIEW-S.E. WINGWALL



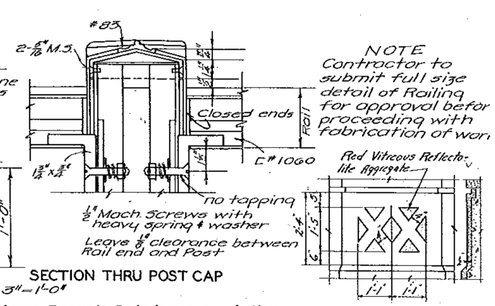
PLAN VIEW-N.E. WINGWALL

REAR ELEVATION A-A S.E. WINGWALL

REAR ELEVATION B-B N.E. WINGWALL



SECTION THRU POST BASE



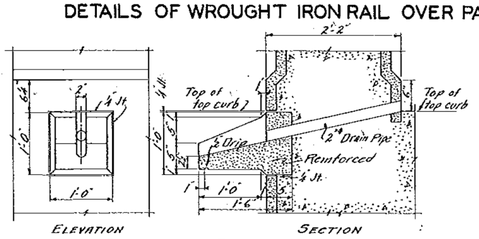
SECTION THRU POST CAP
Scale:- 3" = 1'-0"

NOTE
Contractor to submit full size detail of Railing for approval befor proceeding with fabrication of wor

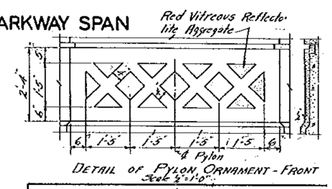
All mouldings from Brown's Catalogue or similar

DETAIL PYLON ORNAMENT-SIDE
Scale 3"=1'-0"

DETAILS OF WROUGHT IRON RAIL OVER PARKWAY SPAN



DETAILS OF PYLON SPOUT
Dummy spout same except no 2" drain pipe
Scale 3"=1'-0"
Cost of spouts to be included in price bid for Precast Concrete Facing



DETAIL OF PYLON ORNAMENT - FRONT
Scale 3"=1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION
1	2/18/39	Stop chairs added
2		Additions to anchor Bolts

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT

MERRITT PARKWAY
UNDER
CLINTON AVE.

STRUCTURAL STEEL RIGID FRAM
WING WALL DETAILS

SCALES ¼" = 1'-0" unless noted
MADE BY F.J.T. Trac. E.C.S. DATE 9/12/38
CHECKED BY G.S.B. DATE 11-2-38
APPROVED J. F. Wilkins DATE 11-7-38
W.O. NO. 180-71-
BRIDGE SHEET 5 OF 5
STANDARD NO. 14

180 71

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\5_SB_158-211_Brg00729_OriginalDrawings_Wingwalls_2.dgn

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

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00729 CLINTON AVE

PROJECT NO. 158-211
DRAWING NO. S-30
SHEET NO. 02.02.31

TOWN	STATE	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
WESTPORT	CONN	—	158-143	1990	15	99-1	187

NOTICE TO BRIDGE INSPECTORS

The Department's 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 construed 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 Engineer of Bridges and Structures.

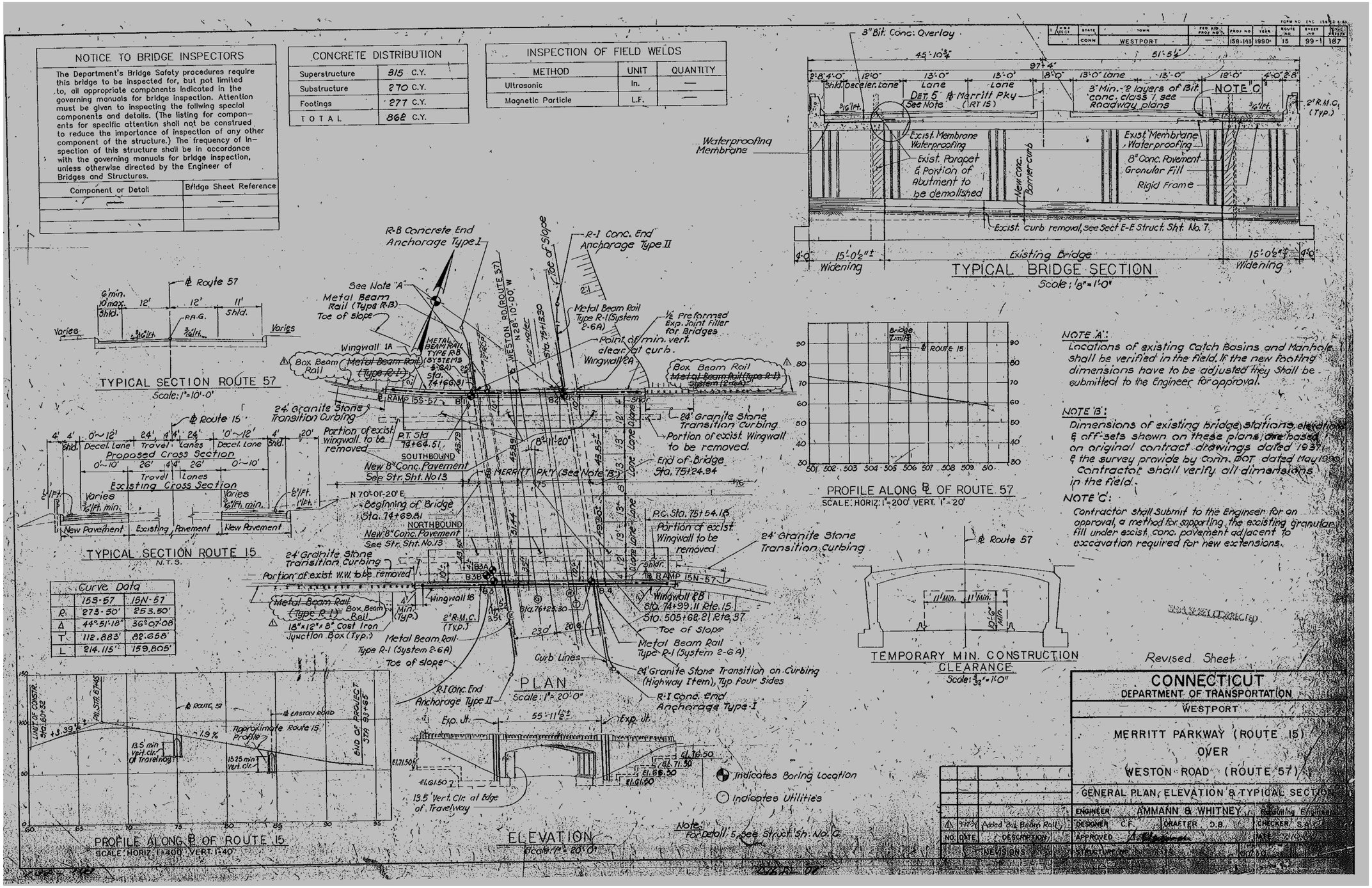
Component or Detail	Bridge Sheet Reference
—	—

CONCRETE DISTRIBUTION

Superstructure	815 C.Y.
Substructure	270 C.Y.
Footings	277 C.Y.
TOTAL	862 C.Y.

INSPECTION OF FIELD WELDS

METHOD	UNIT	QUANTITY
Ultrasonic	In.	—
Magnetic Particle	L.F.	—



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\60_SB_158-211_Brg00730_OriginalDrawings_General_Plan.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

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

TOWN: WESTPORT/FAIRFIELD

PROJECT NO. 158-211

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

DRAWING NO. S-31

SHEET NO. 02.02.32

STATE OF CONNECTICUT -- DEPT. OF TRANSPORTATION

PROJ. ID DIGIT	STATE	TOWN	FED. AID PROJ. NO.	FPOL NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	———	158-143	1990	15	100	187

BRIDGE QUANTITIES		
ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION – EARTH (COMPLETE)	C.Y.	968
PERVIOUS STRUCTURE BACKFILL	C.Y.	825
CLASS "S" CONCRETE	C.Y.	5
PARTIAL REMOVAL OF SUPERSTRUCTURE (SITE NO. 2)	L.S.	L.S.
SAW CUT CONCRETE	L.F.	540
BAGGED STONE	C.F.	64
CLASS "A" CONCRETE	C.Y.	547
COPOLYMER CEMENTITIOUS MORTAR PATCH	GAL.	4
CLASS "F" CONCRETE	C.Y.	315
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	330
DEFORMED STEEL BARS	LB.	48020
DEFORMED STEEL BARS - EPOXY COATED	LB.	30000
CONCRETE CYLINDER CURING BOX	EA.	1
MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	S.Y.	230
DAMPPROOFING	S.Y.	400
TEMPORARY SHEET PILING	S.F.	850
(8"x16") SLOPED GRANITE STONE CURBING FOR BRIDGES	L.F.	290
PROTECTIVE COMPOUND FOR BRIDGES	S.Y.	100
REMOVAL OF EXISTING MASONRY	C.Y.	50
(18"x12"x8") CAST IRON JUNCTION BOX	EA.	4
2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	300
DRILLING AND GROUTING REINFORCING BARS	L.F.	90
GRANULAR FILL	C.Y.	54
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	160

GENERAL NOTES:

SPECIFICATIONS:

CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 814(1988) AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (AASHTO 1989), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL (1985).

ALLOWABLE DESIGN STRESSES:

CLASS 'A' CONCRETE BASED ON fc'=3000psi
CLASS 'F' CONCRETE BASED ON fc'=4000psi
REINFORCEMENT (ASTM A615 GRADE 60) fs (Tensile)=24,000psi

LIVE LOAD HS 20-44

CLASS 'A' CONCRETE: CLASS 'A' CONCRETE SHALL BE USED FOR THE WINGWALLS.

CLASS 'F' CONCRETE: CLASS 'F' CONCRETE SHALL BE USED FOR CONCRETE ARCH AND PARAPETS.

MINUMUM VERTICAL CLEARANCE: 12'-4" AT CURB LINE
13'-6" AT TRAVELWAY (N.W. PORTAL)

JOINT SEAL: SEE SPECIAL PROVISIONS.

PARAFFIN: THE COST OF FURNISHING & APPLYING PARAFFIN IS INCLUDED IN THE ITEM CLASS 'F' CONCRETE.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT:

ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS:

ALL REINFORCEMENT IN THE CONCRETE ARCH SEGMENTS(EXCLUDING FOOTINGS) AND PARAPETS SHALL BE EPOXY COATED

ALL REINFORCEMENT IN THE TOP MAT OF THE CONCRETE APPROACH SLABS INCLUDING THOSE IN THE HEADERS SHALL BE EPOXY COATED. THESE BARS ARE ROADWAY ITEMS AND SHALL BE INCLUDED IN THE ROADWAY ITEM "DEFORMED STEEL BARS (EPOXY COATED)."

FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

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

DECIMAL DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

UTILITIES: UNDERGROUND UTILITIES (GAS LINE, 16"ø WATERMAIN, 8 TELEPHONE DUCTS & ELECTRICAL DUCTS) TO BE PROTECTED DURING CONSTRUCTION OF FOOTING. CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE UTILITY COMPANIES:

1. SOUTHERN CT GAS COMPANY
2. BRIDGEPORT HYDRAULIC CO.
3. SOUTHERN NEW ENGLAND TELEPHONE COMPANY
4. NORTHEAST UTILITIES SERVICES (CL & P)

FUTURE PAVING ALLOWANCES: NONE

TEMPORARY SHEET PILING:

THE USE OF VIBRATORY HAMMERS TO DRIVE OR REMOVE TEMPORARY SHEET PILING WILL NOT BE ALLOWED.

PROTECTION OF ROADWAY BELOW STRUCTURE:

1. DEMOLITION, REMOVAL AND CLEANING OPERATIONS SHALL BE CONDUCTED WITH MEASURES THAT PREVENT MATERIALS AND DEBRIS FROM FALLING BELOW THE BRIDGE. SUCH MEASURES SHALL INCLUDE NETS, SCREENS, PLATFORMS OR OTHER PROTECTIVE DEVICES, APPROPRIATE FOR THIS APPLICATION AND APPROVED BY THE ENGINEER.
2. ALL MATERIALS FALLING BELOW THE BRIDGE SHALL BE REMOVEDIMMEDIATELY AND DISPOSED OF BY THE CONTRACTOR.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISION "BEST MANAGEMENT PRACTICES FOR PROTECTION OF THE ENVIRONMENT.

SHEET NOT CORRECTED

d:\jc108126\gn730

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

GENERAL NOTES

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER C.F. DRAFTER YB CHECKER SA
APPROVED S. Weisman DATE 9-10-90
STRUCTURE NO. 158-143-2 BRIDGE LOC NO. 00730 STRUCTURE SHEET NO. 2 OF 16

158-143

46R-01

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\61_SB_158-211_Brg00730_OriginalDrawings_General_Notes.dgn

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

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

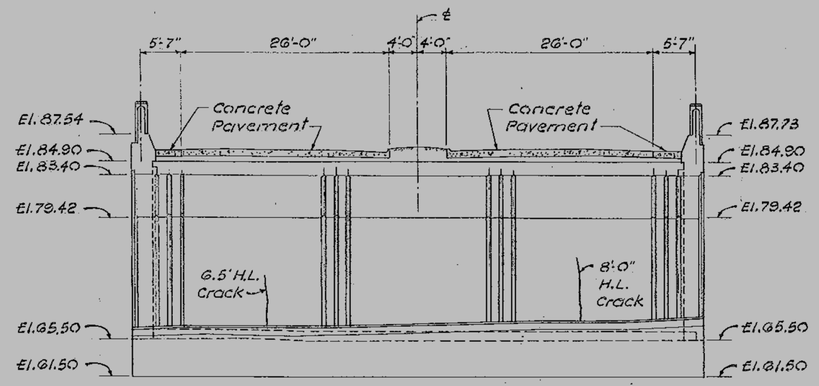
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-32
SHEET NO. 02.02.33

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

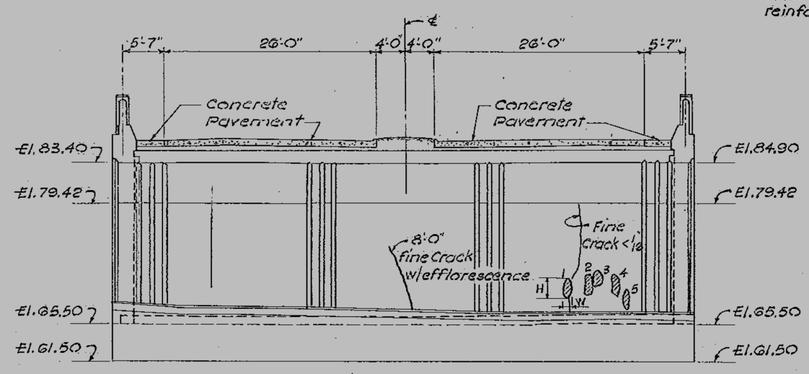
FORM NO. DOT-113 ED. 1-88

FHWA FED/STATE	STATE	TOWN	FED AID PROJ NO	PROJ NO	YEAR	ROUTE NO.	SHEET NO	TOTAL SHEETS
	CONN	WESTPORT		158-143	1990	15	102	187



EXISTING ABUTMENT 1 - ELEVATION

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



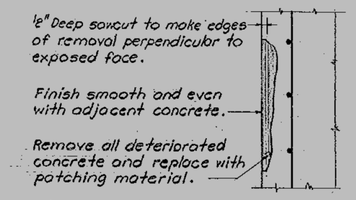
EXISTING ABUTMENT 2 - ELEVATION

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

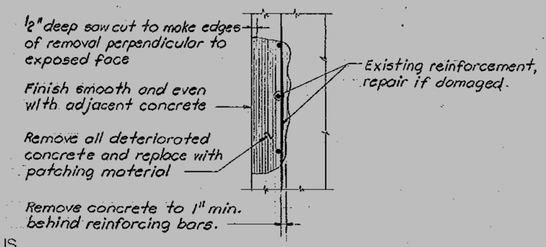
1: 1.5'H x .6'W x 7/8"D
2: 1.7'H x .7'W x 1"D
3: .9'H x .6'W x 3/4"D
4: 1.25H x .6'W x 3/4"D
5: .8'H x .3'W x 3/8"D

Spalls with exposed rebars.

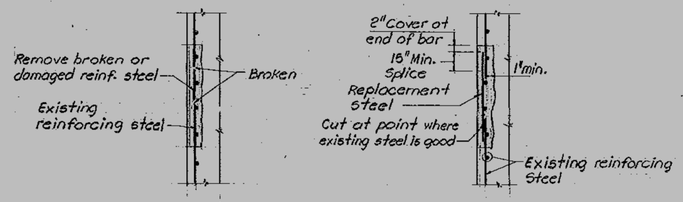
D = Depth



COPOLYMER CEMENTITIOUS MORTAR PATCH



CLASS 'S' CONCRETE



BEFORE REPAIR

AFTER REPAIR

REPAIR OF DAMAGED REINFORCING STEEL

N.T.S.

CONCRETE REPAIRS:

VERTICAL SURFACES

1. For deteriorated areas where the outer mat of reinforcing steel, upon removal of deteriorated concrete, has more than half its surface area exposed or which are more than 4 square feet in area, repair using "class "S" concrete." If the reinforcing steel has at least half of its surface area exposed, concrete shall be further removed to a depth of 1" around the steel. For small deteriorated areas where reinforcing steel, upon removal of deteriorated concrete, has less than half its surface area exposed or which are less than 4 square feet in area, repair using "copolymer cementitious mortar patch." For additional information, see special provisions.
2. The 1/2" depth sawcut shall be included in the contract bid price of the applicable repair pay item.
3. If the area or depth of removal is deemed to be excessive, the engineer shall be immediately notified before continuing removal work.
4. The cost of reinforcing steel shall be paid for under "Deformed steel bars."

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

CONCRETE REPAIR

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER KC DRAFTER JK CHECKER SA
APPROVED S. Nessman DATE 9-10-90
STRUCTURE NO. 158-143-2
PROJ. LOC. NO. 00730
SHEET 4 OF 16

158-143

468-01

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

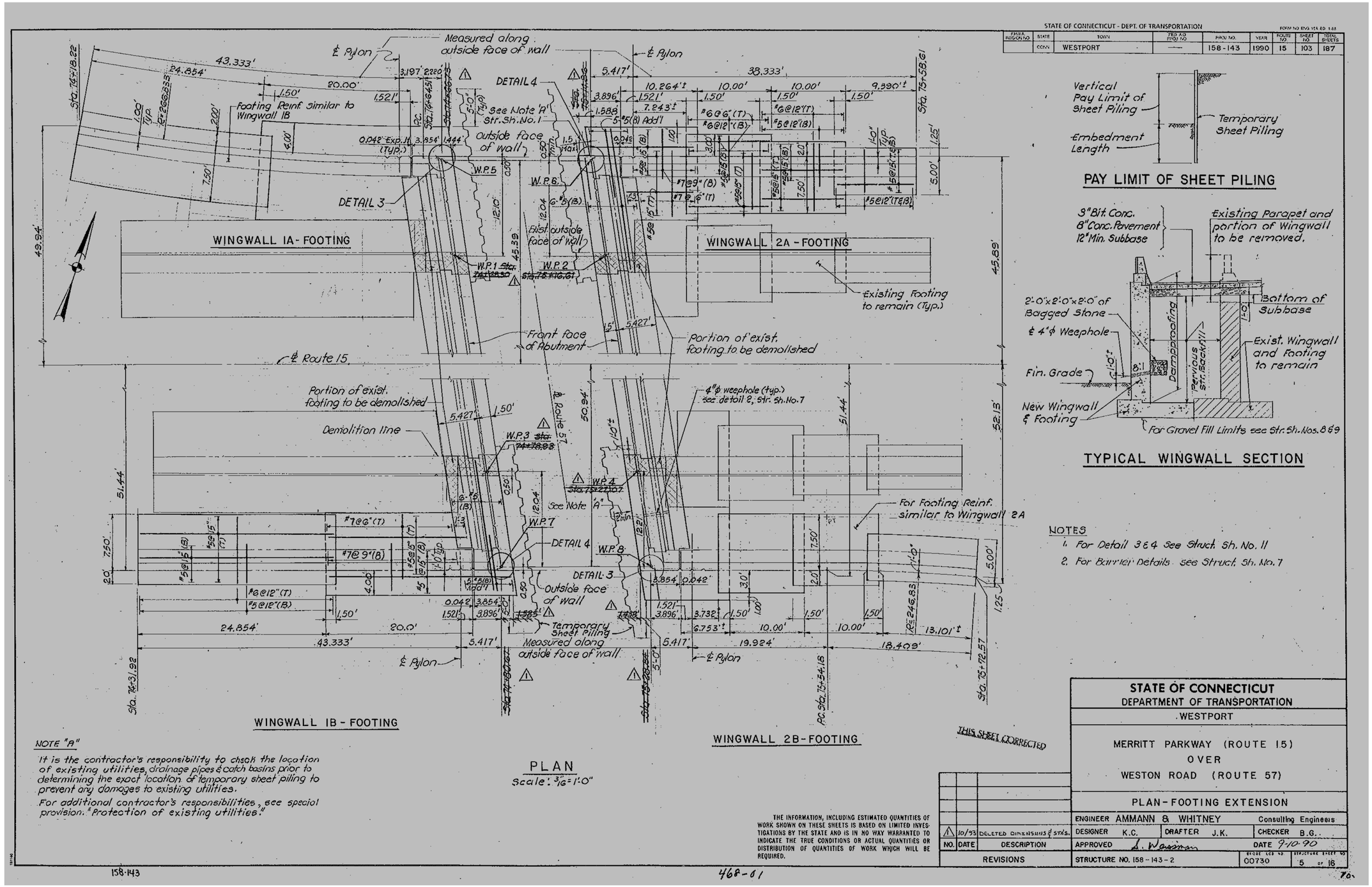
Filename: ...\62_SB_158-211_Brg00730_OriginalDrawings_Concrete_Repair.dgn

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

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-33
SHEET NO. 02.02.34



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\63_SB_158-211_Brg00730_OriginalDrawings_Footing.dgn

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

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

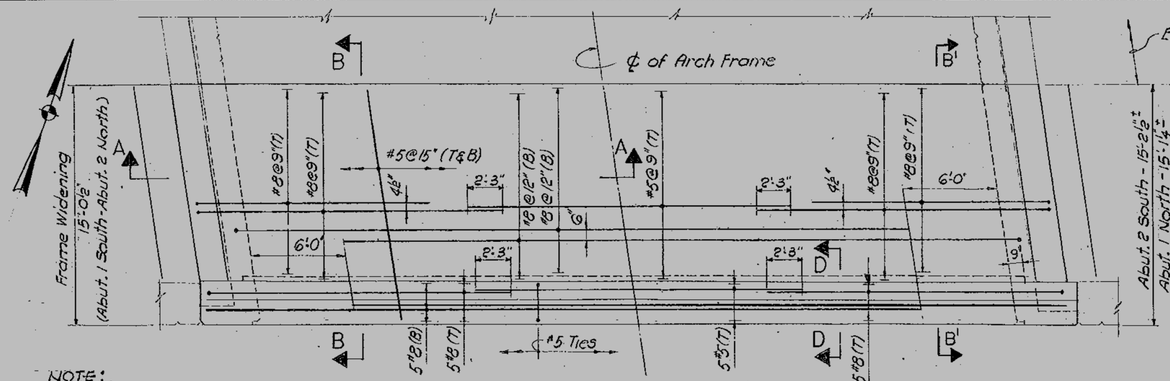
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-34
SHEET NO. 02.02.35

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. BR-3 15A ED 1-88

FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	———	158-143	1990	15	104	187



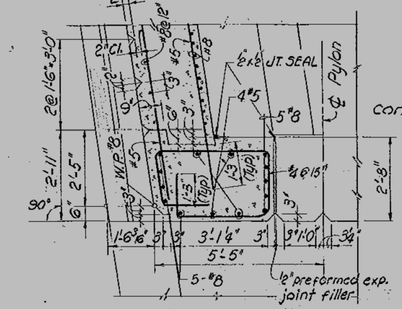
PLAN

(Frame North Widening Similar)

Scale: ¼" = 1'-0"

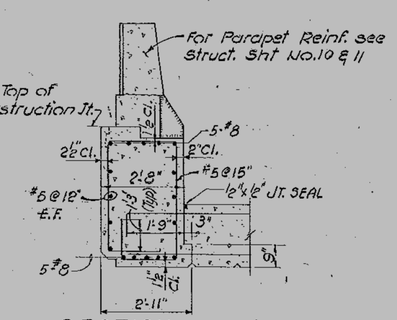
NOTE:

Contractor shall verify all dimensions and elevations shown on these plans in the field. It is the contractor's responsibility to determine and submit to the engineer for approval prior to construction, the intrados and the extrados ordinates of the new extensions of the concrete arch to match existing dimensions and elevations.



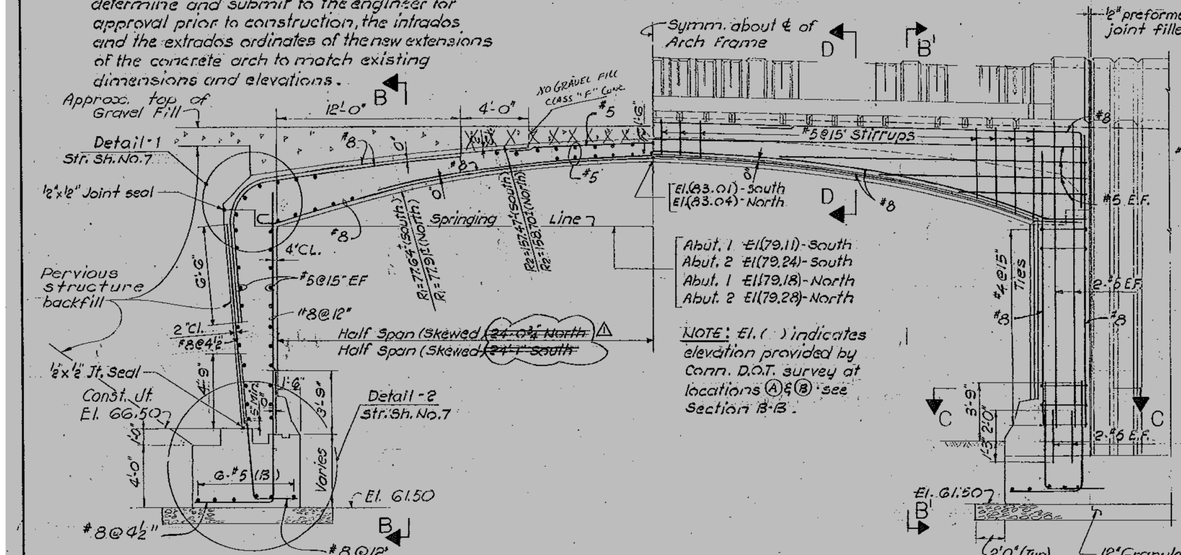
SECTION C-C

Scale: ½" = 1'-0"



SECTION D-D

Scale: ½" = 1'-0"

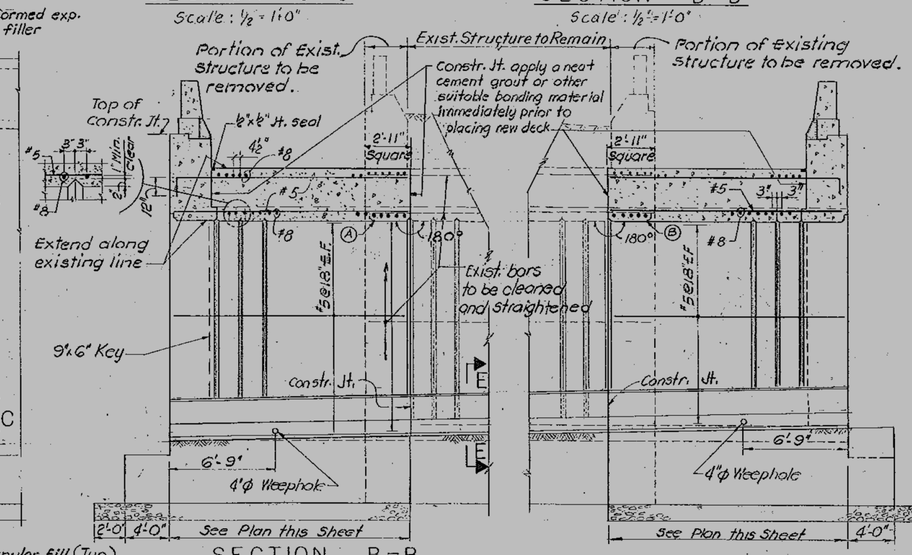


SECTION A-A

Scale: ¼" = 1'-0"

HALF ELEVATION

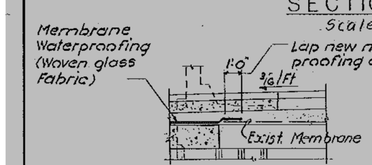
Scale: ¼" = 1'-0"



SECTION B-B

SECTION B'-B' SIMILAR AND OPPOSITE HAND

Scale: ¼" = 1'-0"



DETAIL 5 (SH. 1)

Scale: ¼" = 1'-0"

NOTE:

2" Minimum clear cover is typical unless otherwise noted.

NOTE:

Maximum Design Foundation Pressure = 3.00 TSF (Group I)

All Reinf. 2" cover min.

THIS SHEET CORRECTED

For Details 1 & 2, Sect. 4-4 see Str. Sh. No. 7.

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

CONC. FRAME - PLAN, ELEVATION & DETAILS

ENGINEER	AMMANN & WHITNEY Consulting Engineers		
DESIGNER	K.C.	DRAFTER J.K.	CHECKER B.G.
APPROVED	S. Weisman	DATE 9-10-90	
STRUCTURE NO. 158-143-2		BRIDGE LOG NO. 00730	STRUCTURE SHEET NO. 6 OF 16

158-143

468-01

104

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\64_SB_158-211_Brg00730_OriginalDrawings_Frame.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Boba

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211

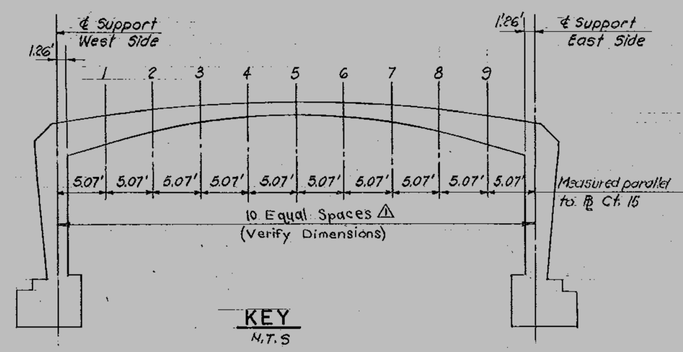
DRAWING NO. S-35

SHEET NO. 02.02.36

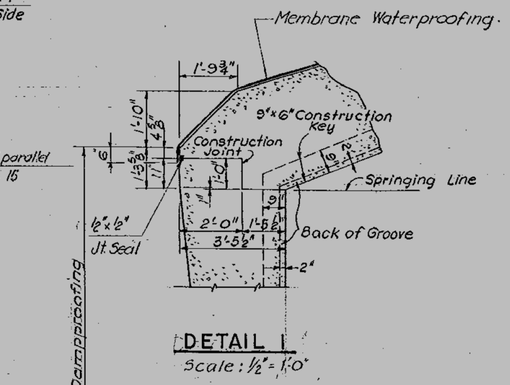
STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. BRD 15A ED. 1-65

F.A.P.N. REGION NO	STATE	TOWN	FED. A.D. PROJ. NO	PROJ. NO	YEAR	ROUTE NO	SHEET NO	TOTAL SHEETS
	CONN	WESTPORT	———	158-143	1990	15	105	187

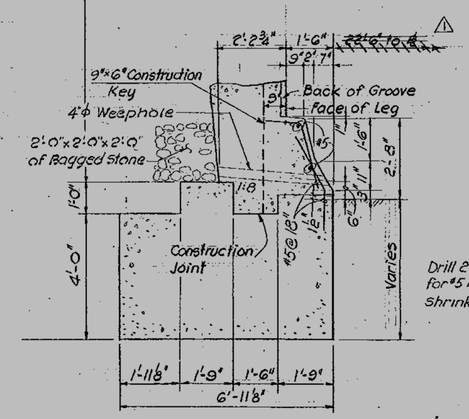


KEY
N.T.S

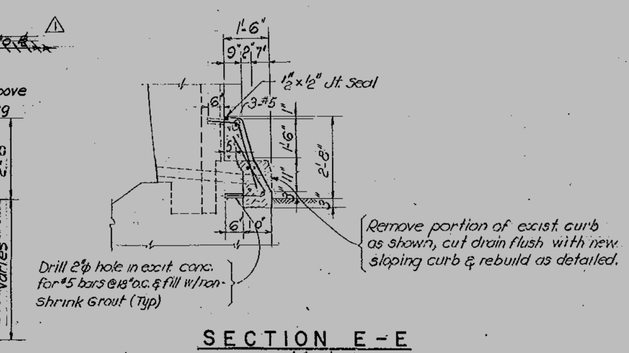


DETAIL 1
Scale: ½" = 1'-0"

FRAME	DEFLECTION AND CAMBER (INCHES)										
CONCRETE FRAME	SPAN LOCATION (Refer to key)										
	℄ Support West Side	1	2	3	4	5	6	7	8	9	℄ Support East Side
Conc. Frame	0	.0333	.0733	.1200	.1575	.1812	.1517	.1200	.0733	.0333	0
Other D.L.	0	.0294	.0653	.1059	.1340	.1428	.1254	.0939	.0584	.0271	0
Total D.L.	0	.0627	.1386	.2259	.2915	.324	.2829	.2139	.1317	.0604	0



DETAIL 2
Scale: ½" = 1'-0"



SECTION E-E
Scale: ½" = 1'-0"

Note:
For location of Detail 1 & 2, Section E-E, see Struct. Sht. No. 6

THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
⚠	10/93	DELETED DIMENSION & ADDED NOTE

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT
MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)
FRAME DEFLECTION & CAMBER

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER S.A.
APPROVED S. Wessman DATE 9-10-90
STRUCTURE NO. 158-143-2 BRIDGE CODE NO. 00730 STRUCTURE SHEET NO. 7 of 16

158-143 468-01 105

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\65_SB_158-211_Brg00730_OriginalDrawings_Camber.dgn

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

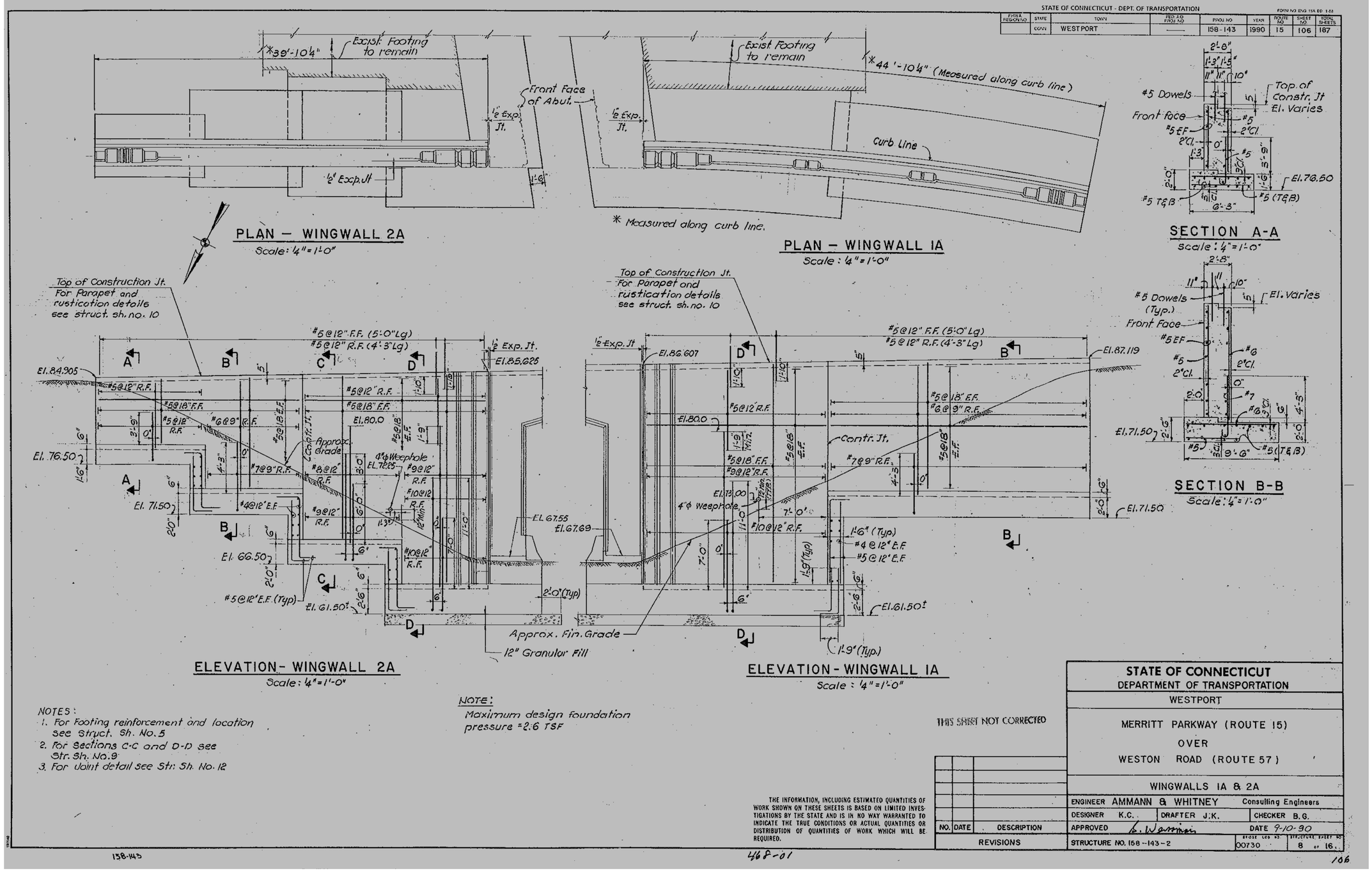
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-36
SHEET NO. 02.02.37

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FHWA REGION NO	STATE	TOWN	FED. AID PROJ. NO	PROJ. NO	YEAR	ROUTE NO	SHEET NO	TOTAL SHEETS
	CONN	WESTPORT	—	158-143	1990	15	106	187



NOTES:
1. For footing reinforcement and location see Struct. Sh. No. 5
2. For Sections C-C and D-D see Str. Sh. No. 9
3. For Joint detail see Str. Sh. No. 12

NOTE:
Maximum design foundation pressure = 2.6 TSF

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

WINGWALLS 1A & 2A

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER J.K. CHECKER B.G.
APPROVED E. Wassman DATE 9-10-90
STRUCTURE NO. 158-143-2 BRIDGE LOG NO. 00730 STRUCTURE SHEET NO. 8 of 16

158-143 46P-01 106

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\66_SB_158-211_Brg00730_OriginalDrawings_Wingwalls_1A&2A.dgn

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

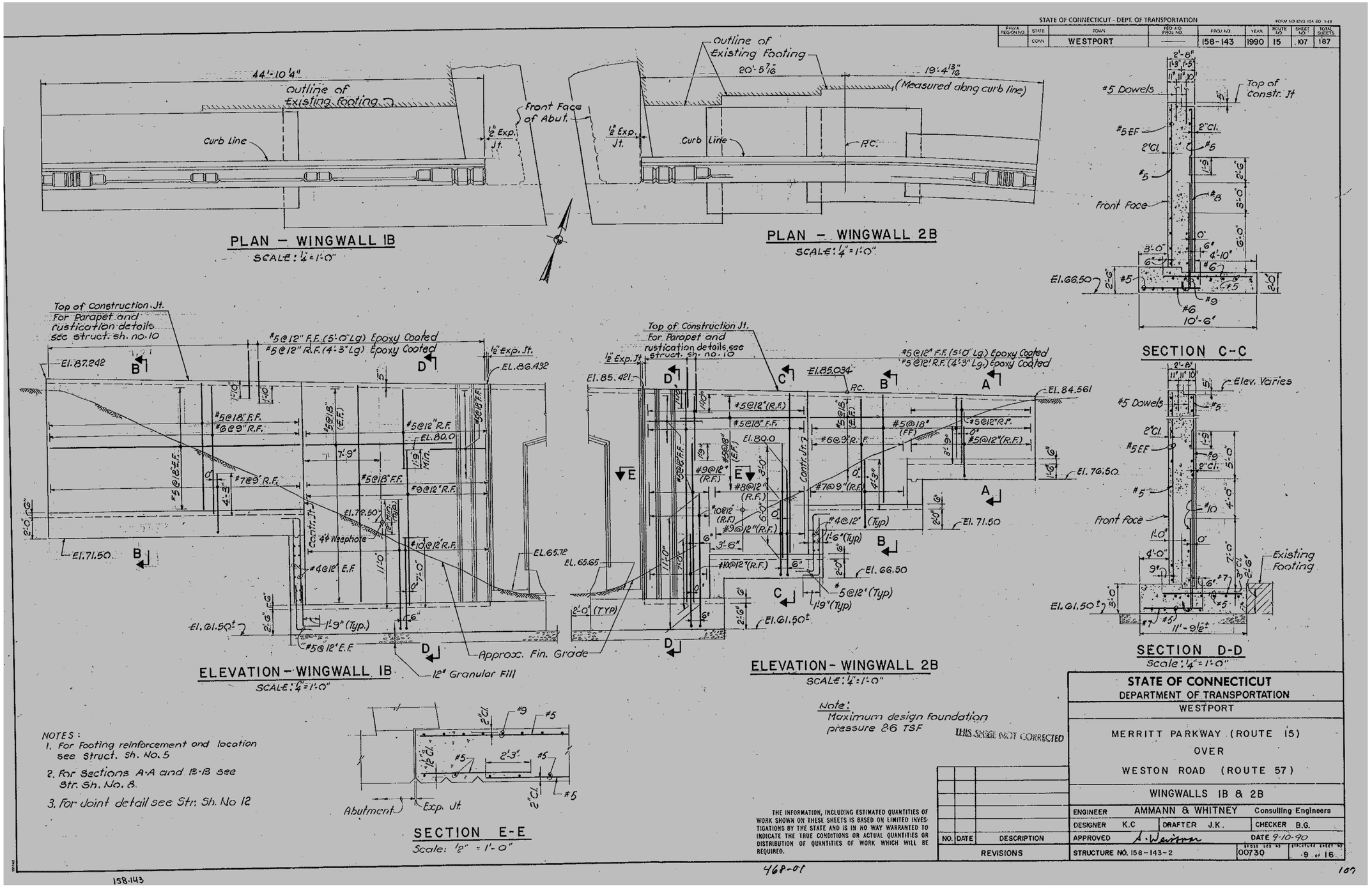
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-37
SHEET NO. 02.02.38

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FHWA REGION NO.	STATE	TOWN	FED AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN	WESTPORT	—	158-143	1990	15	107	187



PRELIMINARY DESIGN REVIEW

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\67_SB_158-211_Brg00730_OriginalDrawings_Wingwalls_1B&2B.dgn

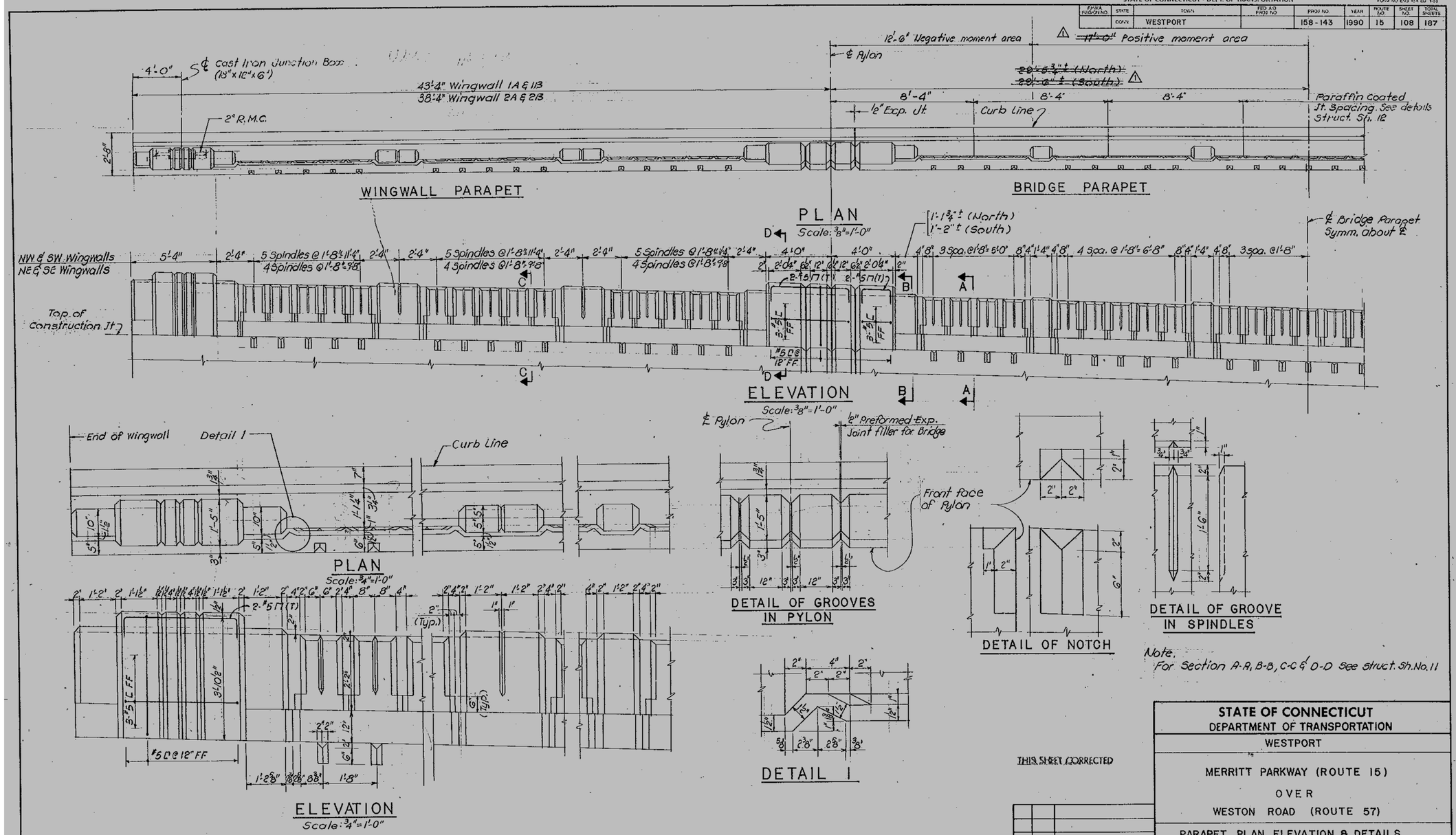
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Boak

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

TOWN: WESTPORT/FAIRFIELD
PROJECT NO. 158-211
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)
DRAWING NO. S-38
SHEET NO. 02.02.39

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FHWA PROJ NO	STATE	TOWN	FED AID PROJ NO	PROJ NO	YEAR	ROUTE NO	SHEET NO	TOTAL SHEETS
	CONN	WESTPORT		158-143	1990	15	108	187



THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

PARAPET PLAN, ELEVATION & DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER J.K. CHECKER S.A.
APPROVED S. Wessman DATE 9-10-90
STRUCTURE NO. 158-143-2 BRIDGE LOG NO. 00730 STRUCTURE SHEET NO. 10 OF 16

158-143

46P-01

108

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\68_SB_158-211_Brg00730_OriginalDrawings_Parapets.dgn

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

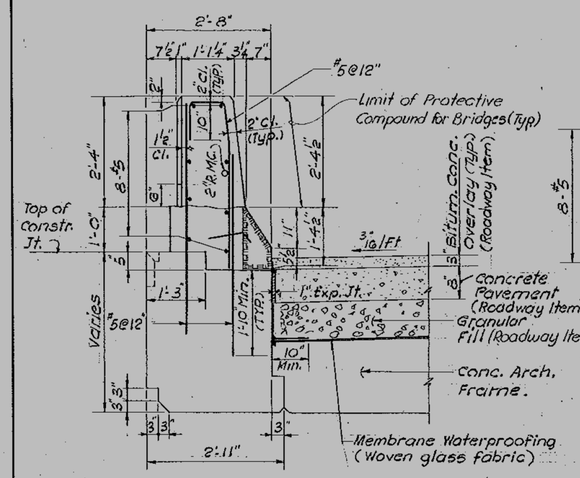
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-39
SHEET NO. 02.02.40

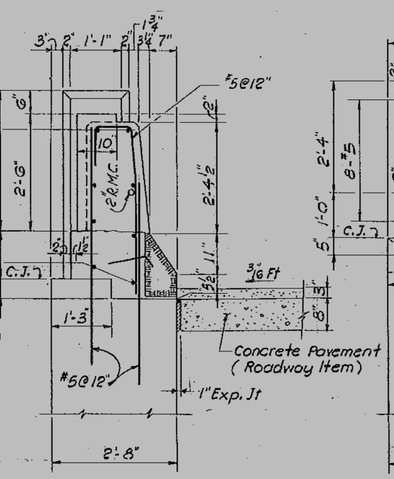
STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FHWA REGION NO	STATE	TOWN	FED AID PROJ NO	PROJ NO	YEAR	ROUTE NO
	CONN	WESTPORT		158 - 143	1990	15



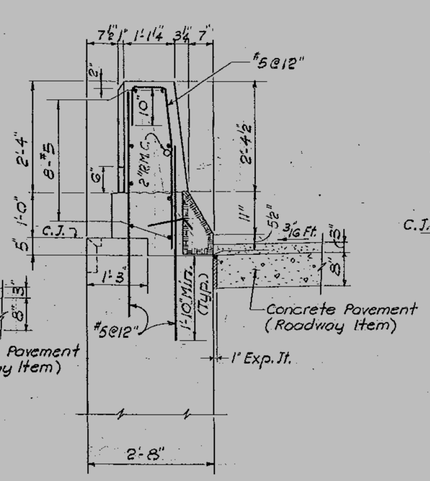
SECTION A-A

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



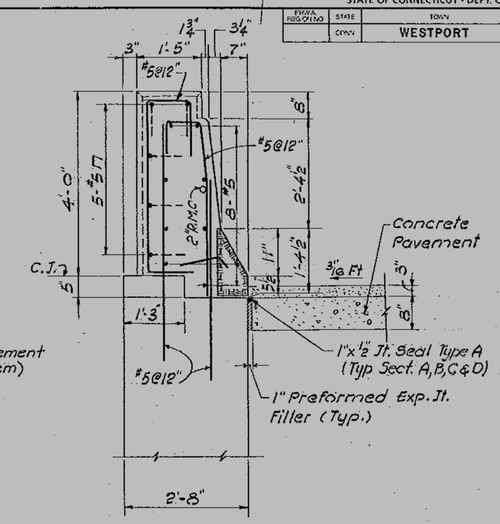
SECTION B-B

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



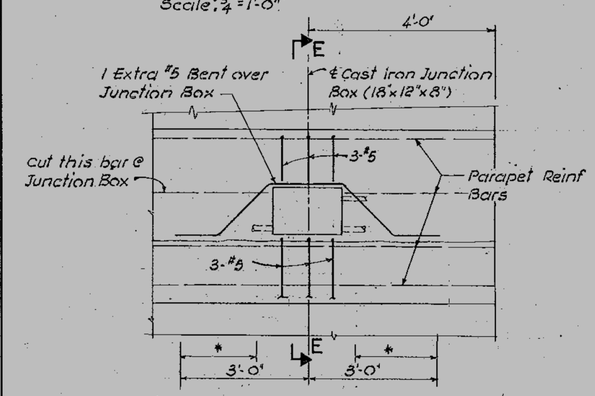
SECTION C-C

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



SECTION D-D

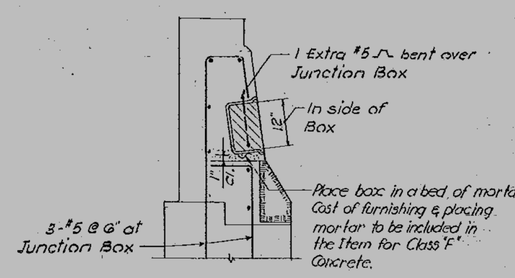
Scale: 3/4" = 1'-0"



*The vertical parapet reinf. is to be doubled (#5@6") with in these limits

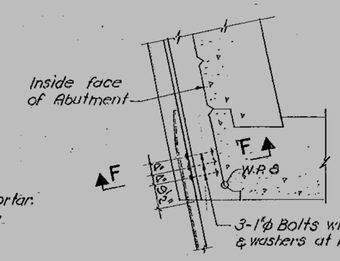
ELEVATION
PARAPET REINFORCEMENT
JUNCTION BOX

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



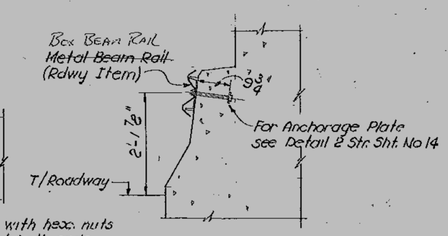
SECTION E-E

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



DETAIL 3 (AS SHOWN)
DETAIL 4 (SIMILAR)

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



SECTION F - F

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

THIS SHEET CORRECTED

Notes:
1) For Location of Sections A-A to D-D See Struct. Sh. No. 10
2) For Location of Detail 3 & 4 See Struct. Sh. No. 5

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT
MERRITT PARKWAY (ROUTE 15
OVER
WESTON ROAD (ROUTE 57)
PARAPET SECTIONS & MISCELLANEOUS DE

ENGINEER AMMANN & WHITNEY Consulting
DESIGNER K.C. DRAFTER D.B. CHECKER
APPROVED S. Wasserman DATE 9-
STRUCTURE NO. 158-143-2 BRIDGE LOG NO. 00730

158-143

468-01

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\69_SB_158-211_Brg00730_OriginalDrawings_Parapets_2.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

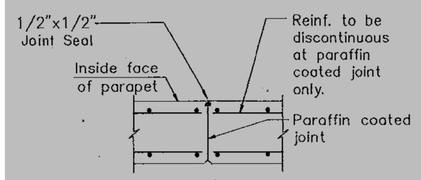
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-40
SHEET NO. 02.02.41

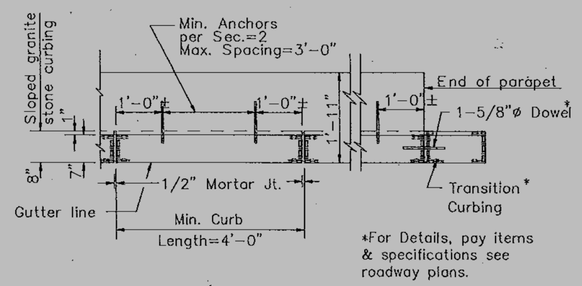
STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FORM NO. ENG 13A (ED. 6-80)

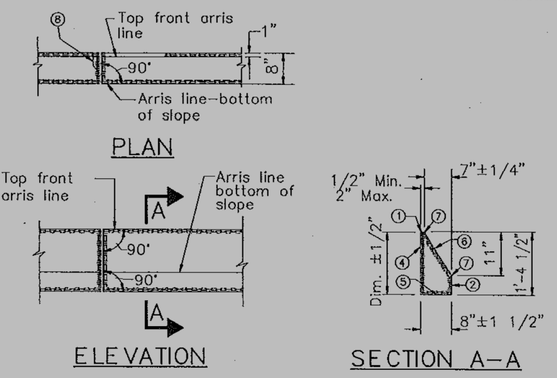
DATA PERIOD	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	110	187



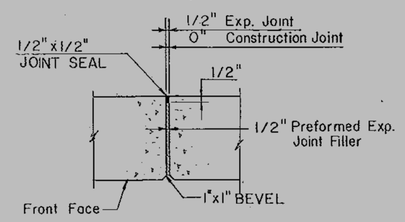
SECTION B-B & C-C
PARAFFIN JOINTS
SCALE: 3/4"=1'-0"



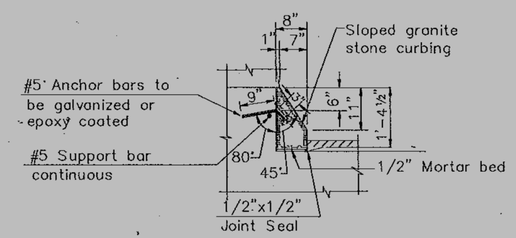
PLAN OF GRANITE CURB



SLOPED GRANITE STONE CURBING FOR BRIDGE
SCALE: 3/4"=1'-0"



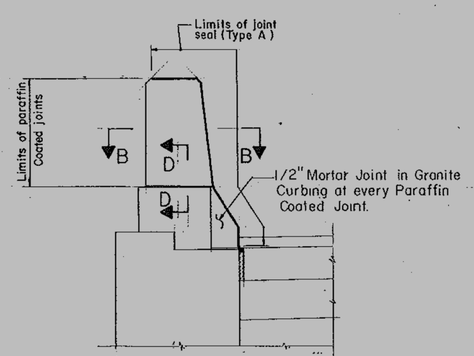
EXP. & CONSTRUCTION JOINT DETAIL
N.T.S.



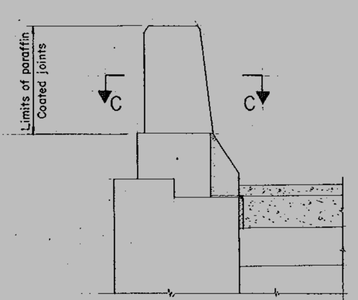
TYPICAL SECTION THRU
SLOPED GRANITE STONE CURBING
SCALE: 3/4"=1'-0"

TOLERANCE NOTES GRANITE STONE CURBING

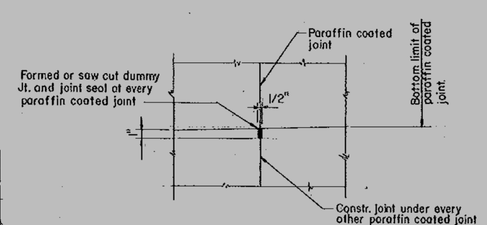
1. Sawed surface approximating a true plane with no projections or depressions greater than 1/4".
2. Smooth, quorry split surface, free of drill holes with projections or depressions not over 1/2".
4. Split surface shall be free of any projections over 1".
5. Sawed or split surface approximating a true plane to the specified dimensions with projection no greater than 1/4".
6. Sawed surface free of all quorry sawing and cutting marks with allowable depr. or proj. not over 1/4".
7. These arris lines shall be straight and true within a ± tolerance of 1/4".
8. Ends of stones at intermediate joints shall be held full for 2" from all exposed surfaces with a permitted variation of 1/4". Beyond this area the joint may fall away a max. of 3".



NEGATIVE MOMENT AREA



POSITIVE MOMENT AREA



SECTION D-D

NOTE:

All bars in parapet shall have 2" cover, except as noted.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

MISCELLANEOUS CONCRETE DETAILS

ENGINEER	AMMANN & WHITNEY	Consulting Engineers	
DESIGNER KC	DRAFTER YB	CHECKER SA	
APPROVED S. H. Whitney		DATE 9-10-90	
STRUCTURE NO. 158-143-2		BRIDGE LOG NO. 00730	SPUCKUPS SHEET NO. 12 OF 16

158-143

468-01

110

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC
CHECKED BY: JRH/DSG
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\70_SB_158-211_Brg00730_OriginalDrawings_Misc_Concrete.dgn

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

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

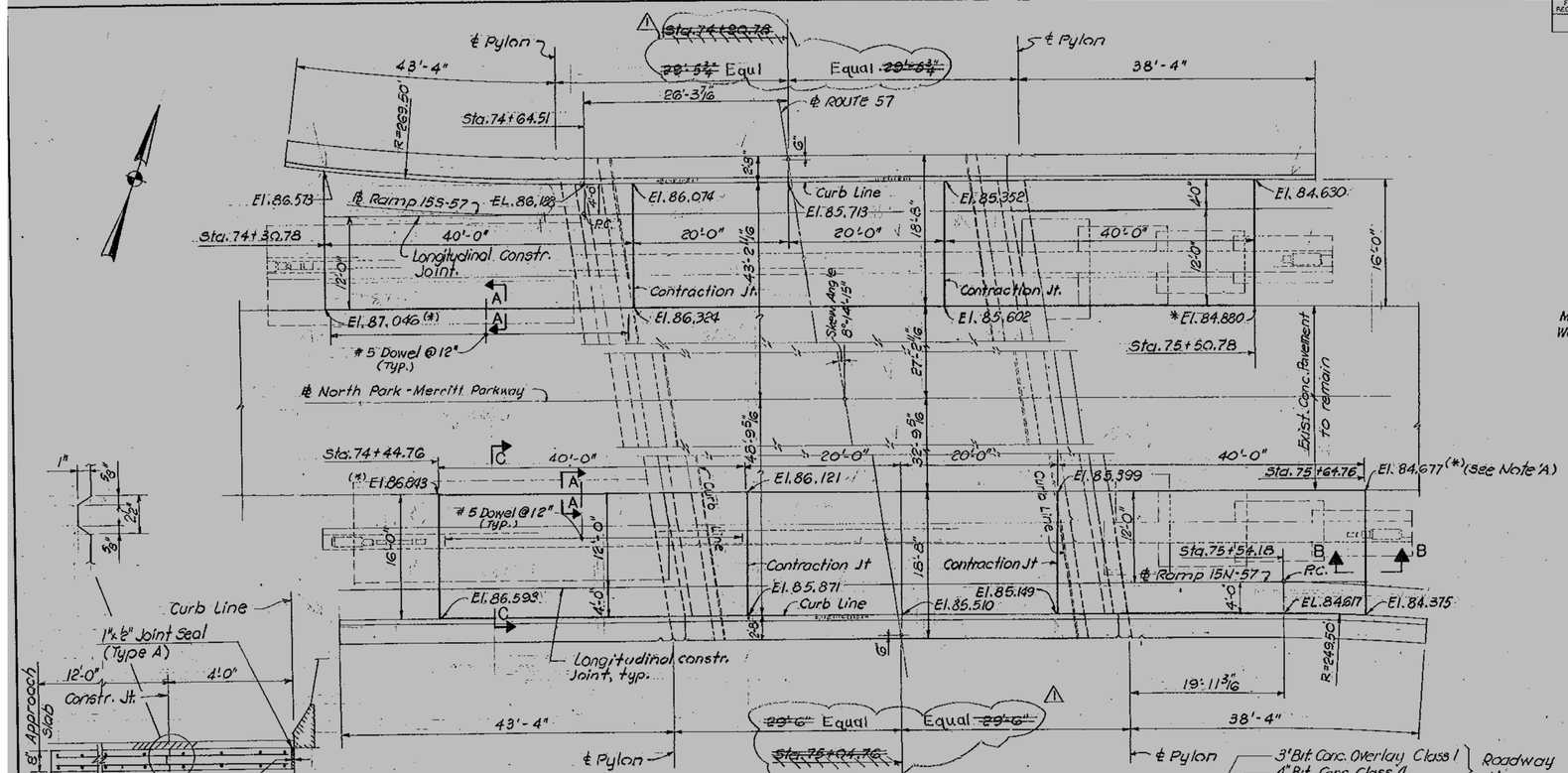
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-41
SHEET NO. 02.02.42

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 156 BD. 1-83

FHWA REGION NO.	STATE	TOWN	FED AID PROJ NO.	PROJ NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
-	CONN	WESTPORT	—	158-143	1990	15	111	187

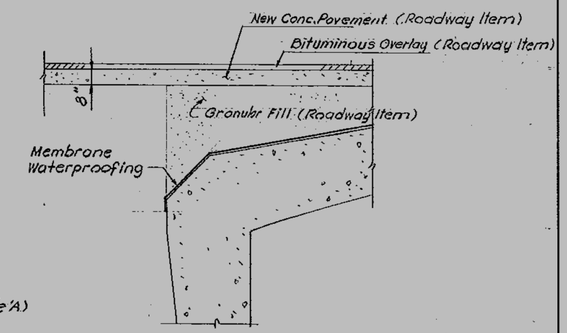


PLAN

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

SECTION C-C

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



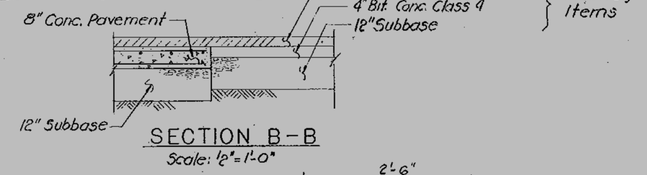
SECTION AT END BRIDGE

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

(*) NOTE A: Indicates existing elevations.

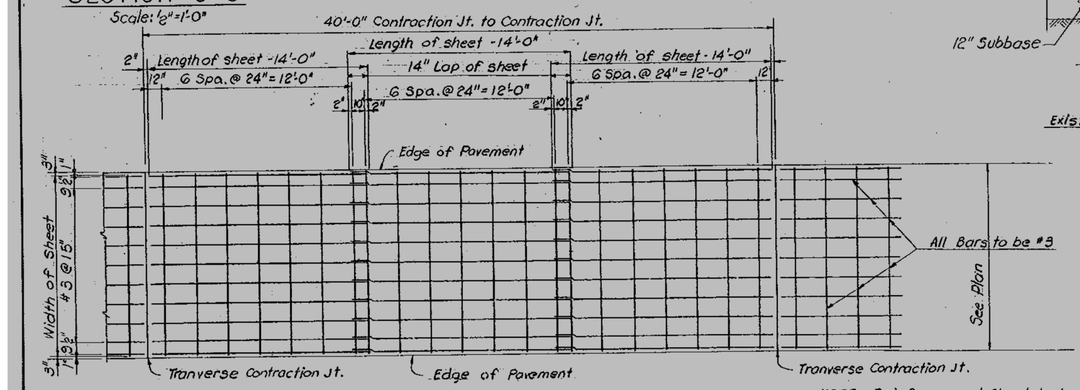
NOTES:

1. Reinforcing Steel to be included in the Roadway item for "Mat Reinf. for concrete pavement."
2. Concrete to be included in the Roadway item for "Concrete for pavement".
3. Drilling for dowels to be included in the Roadway item "Drilling & Grouting Reinforcing Bars".
4. See Standard Sheet No. 401-C for details.
5. Contractor may use as an alternate design "Fabric Reinforcement" instead of "Bar Mat Reinforcement" for the concrete pavement. For details see Standard Sht. 401-B, the steel fabric shall meet the requirements stated on the Standard Sht. 401-B.



SECTION B-B

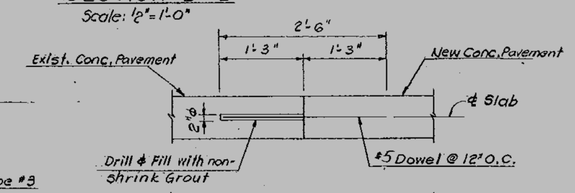
Scale: 1/2" = 1'-0"



TOP MAT REINFORCENT DETAIL

N.T.S.

NOTE: Reinforcement Sheet to be placed in pavement 2 3/4" Below finish Surface.



SECTION A-A

Scale: 1" = 1'-0"

THIS SHEET CORRECTED

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NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS & STA'S.

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

BRIDGE CONC. PAVEMENT DETAILS

ENGINEER AMMANN & WHITNEY.
DESIGNER K.C. DRAFTER C.Y. CHECKER S.A.
APPROVED J. Wessman DATE 9-10-90
STRUCTURE NO. 158-143-2 BRIDGE LOC. NO. 00730 STRUCTURE SHEET NO. 13 OF 16

158-143 46P-01 111

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\71_SB_158-211_Brg00730_OriginalDrawings_Concrete_Pavement.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211

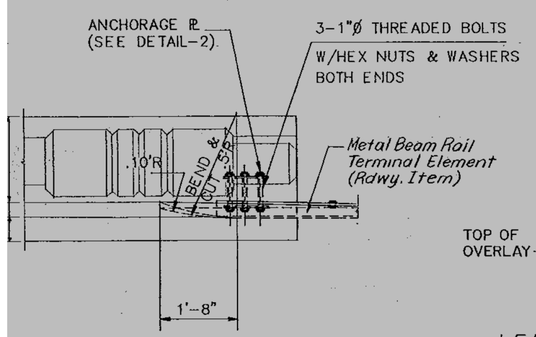
DRAWING NO. S-42

SHEET NO. 02.02.43

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

PUBLIC HEARING	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	112	187

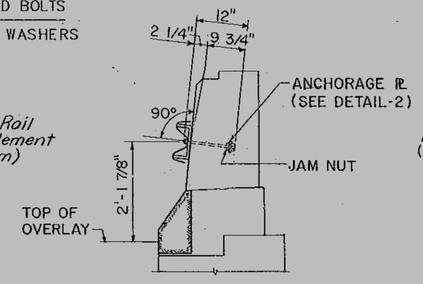
See Reviesed Sheet 112-1



⇦ DIRECTION OF TRAFFIC

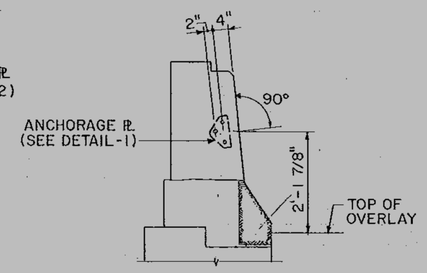
PLAN (LEADING END)

SCALE: 3/4"=1'-0"
NORTHEAST AND SOUTHWEST PARAPETS



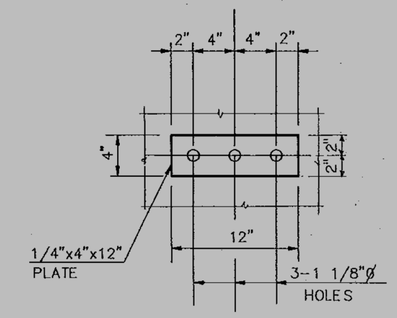
LEADING END SECTION

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



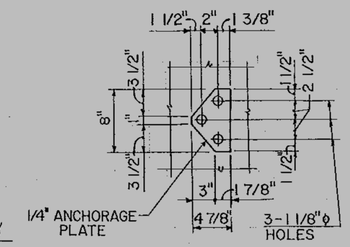
TRAILING END SECTION

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



DETAIL-2

N.T.S.

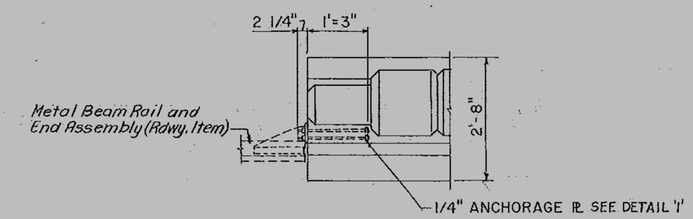


DETAIL-1

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

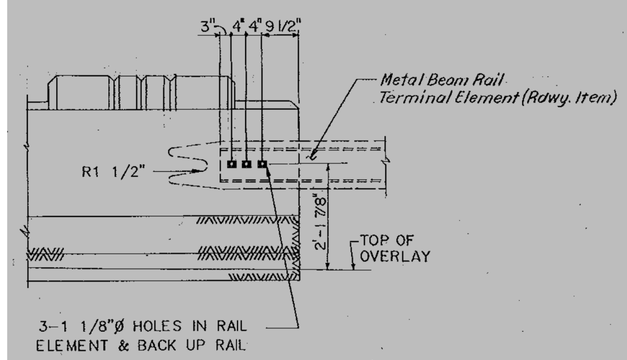
NOTE

FOR ADDITIONAL DETAILS OF STANDARD METAL BEAM RAIL TYPE R-1 SEE ROADWAY PLANS.



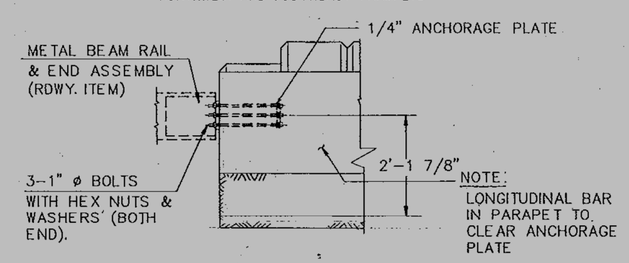
PLAN (TRAILING END)

SCALE: 3/4"=1'-0"
NORTHWEST AND SOUTHEAST PARAPETS



ELEVATION (LEADING END)

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



NOTE:
LONGITUDINAL BAR IN PARAPET TO CLEAR ANCHORAGE PLATE

ELEVATION (TRAILING END)

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

REVISION OF 112
SHOWN ON SHEET 112-1
INCORPORATED ON THIS SHEET
NO.

THIS SHEET NOT CORRECTED

NOTE:

ANCHOR BOLTS SHALL CONFORM TO REQUIREMENTS OF ASTM A449 WITH NUTS & WASHERS CONFORMING TO A563 GRADE B. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM A153. ANCHORAGE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ALL ANCHORAGE MATERIAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "DEFORMED STEEL BARS."

METAL BEAM RAIL TYPE R-T

PERMANENT ATTACHMENT TO NEW BRIDGE PARAPETS

D:\YB2\R-MD108

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

MISCELLANEOUS DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER KC DRAFTER YB CHECKER SA
APPROVED S. Wasson DATE 9/10/90
STRUCTURE NO. 158-143-2 BRIDGE LOC NO. 00730 STRUCTURE SHEET NO. 14 OF 16

158-143

468-01

112

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\72_SB_158-211_Brg00730_OriginalDrawings_Misc_Details.dgn

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

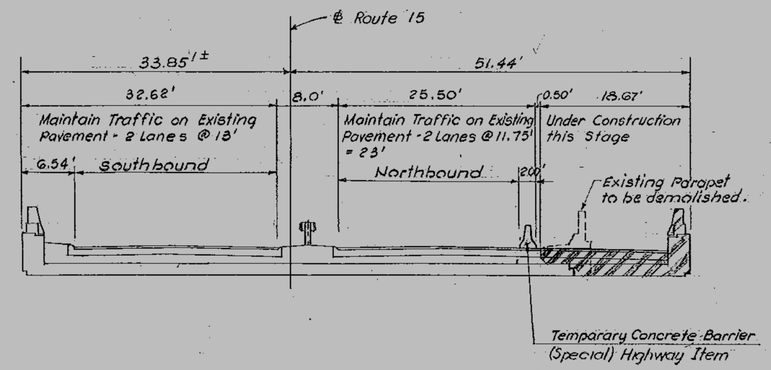
PROJECT TITLE:
MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

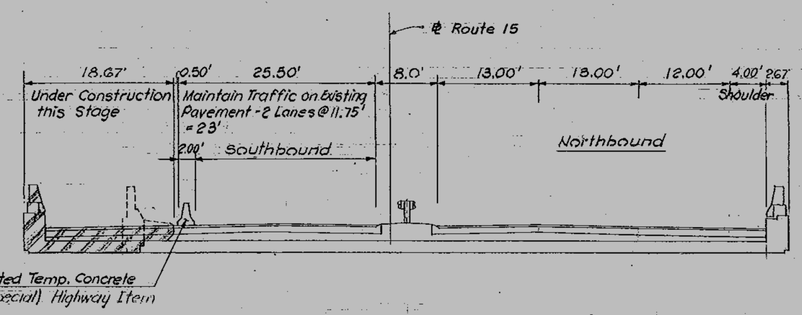
PROJECT NO. 158-211
DRAWING NO. S-43
SHEET NO. 02.02.44

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

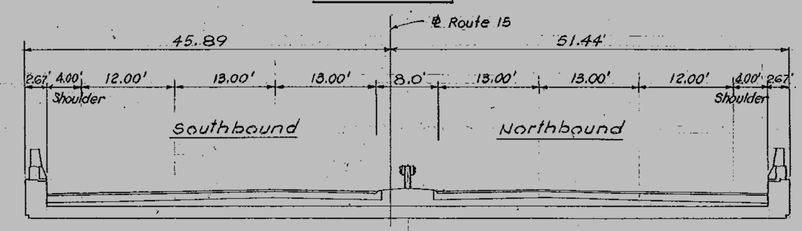
FROM REGION NO	STATE	TOWN	FED. AID PROJ. NO	PROJ. NO	YEAR	ROUTE NO	SHEET NO	TOTAL SHEETS
	CONN	WESTPORT	—	158-143	1990	15	113	187



STAGE - I A



STAGE - I B



LEGEND:
- Existing Slab to remain
- Slab and Parapet under construction.

FINAL CROSS SECTION

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

CONSTRUCTION SEQUENCES:

STAGE I-A Widening on South Side

1. - Place Temporary Barrier as shown in cross section.
2. - Demolish existing South parapet, portion of existing concrete pavement & top of Wingwall see Str. Sh. No. 5.
3. - Demolish portion of existing concrete frame see Str. Sh. No 5 for limits of demolition
4. - Construct Footing, Segment of conc. frame, wingwall & parapets at the south side
5. - Construct concrete approach slab.
6. Install metal beam rails on approaches, new pavement will be connected to existing pavement, see struct. sh. 13.

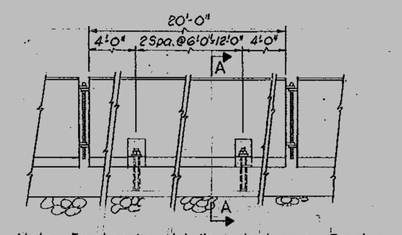
Install Metal beam Rails on approaches

STAGE I-B Widening on North Side

Similar to STAGE I-A.

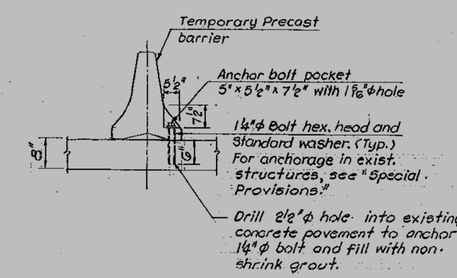
NOTE:

Stages I-A & I-B can occur simultaneously



Note: For barrier details not shown see Roadway standard sh. No. 822-A "Precast Concrete Median Barrier Curb for Temporary Traffic Control"

ELEVATION



SECTION A-A

TEMPORARY BARRIER ANCHORAGE DETAILS

N.T.S.

THIS SHEET NOT CORRECTED.

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

TRAFFIC CONTROL PLAN

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER S.A.
APPROVED L. Weissman DATE 9-10-90
STRUCTURE NO. 158-143-2 BRIDGE LOG NO. 00730 STRUCTURE SHEET NO. 15 OF 16

158-143 46P-01 113

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\73_SB_158-211_Brg00730_OriginalDrawings_Staging.dgn

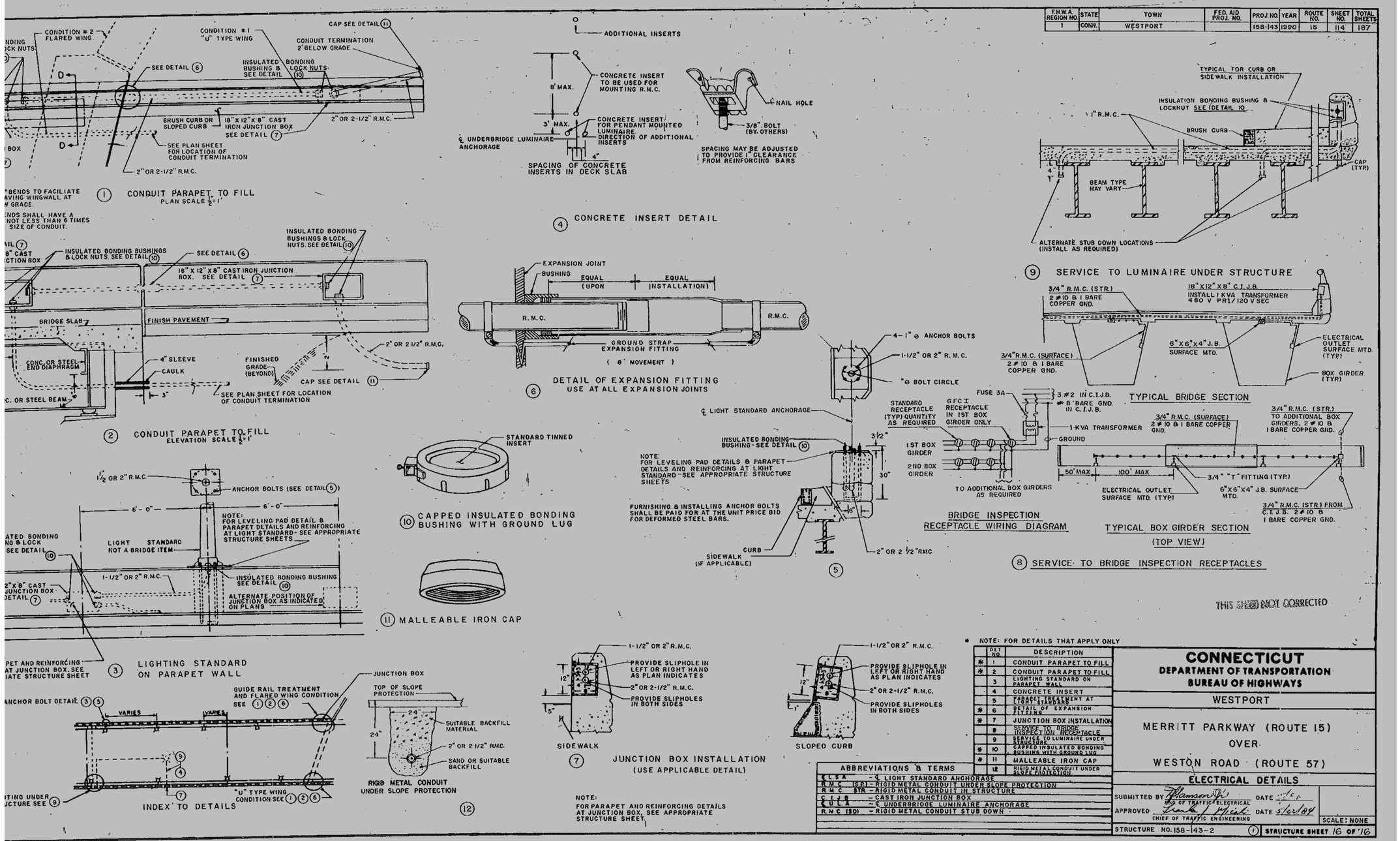
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-44
SHEET NO. 02.02.45

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WESTPORT		158-143	1990	15	114	187



* NOTE: FOR DETAILS THAT APPLY ONLY

	DET NO.	DESCRIPTION
*	1	CONDUIT PARAPET TO FILL
*	2	CONDUIT PARAPET TO FILL
	3	LIGHTING STANDARD ON PARAPET WALL
	4	CONCRETE INSERT
	5	TRAFFIC TREATMENT AT LIGHT STANDARD
*	6	DETAIL OF EXPANSION FITTING
*	7	JUNCTION BOX INSTALLATION
	8	SERVICE TO BRIDGE INSPECTION RECEPTACLE
	9	SERVICE TO LUMINAIRE UNDER STRUCTURE
*	10	CAPPED INSULATED BONDING BUSHING WITH GROUND LUG
*	11	MALLEABLE IRON CAP
	12	RIGID METAL CONDUIT UNDER SLOPE PROTECTION

ABBREVIATIONS & TERMS

℄ L S A	- ℄ LIGHT STANDARD ANCHORAGE
R.M.C. (S.P.)	- RIGID METAL CONDUIT UNDER SLOPE PROTECTION
R.M.C. STR	- RIGID METAL CONDUIT IN STRUCTURE
C.I.J.B.	- CAST IRON JUNCTION BOX
℄ U.L.A.	- ℄ UNDERBRIDGE LUMINAIRE ANCHORAGE
R.M.C. (SD)	- RIGID METAL CONDUIT STUB DOWN

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
WESTON ROAD (ROUTE 57)

ELECTRICAL DETAILS

SUBMITTED BY: Thomas Wh — HD. OF TRAFFIC-ELECTRICAL — DATE 1/6/84
APPROVED: Frank J. Mick — CHIEF OF TRAFFIC ENGINEERING — DATE 5/21/84
SCALE: NONE

STRUCTURE NO. 158-143-2 (1) STRUCTURE SHEET 16 OF 16

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\74_SB_158-211_Brg00730_OriginalDrawings_Electrical.dgn

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

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00730 WESTON RD (ROUTE 57)

PROJECT NO. 158-211
DRAWING NO. S-45
SHEET NO. 02.02.46

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	115-1	187

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 follwing special components and details. (The listing for components for specific attention shall not be construed 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 Engineer of Bridges and Structures.

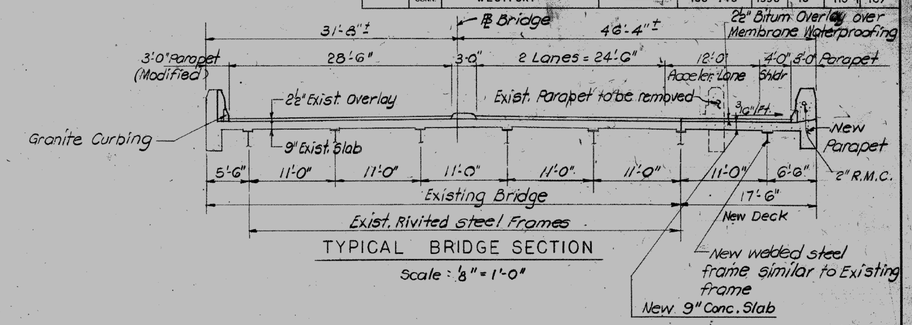
Component or Detail	Bridge Sheet Reference
Field Bolted Splice	Str. Sheet No. 9

CONCRETE DISTRIBUTION

Superstructure	75 C.Y.
Substructure	250 C.Y.
Footings	190 C.Y.
TOTAL	515 C.Y.

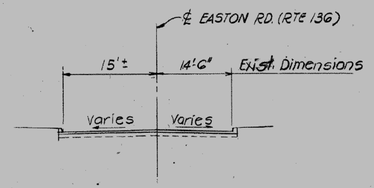
INSPECTION OF FIELD WELDS

METHOD	UNIT	QUANTITY
Ultrasonic	In.	—
Magnetic Particle	L.F.	—



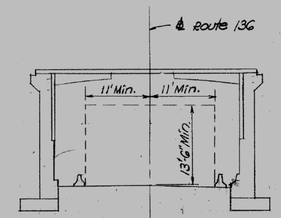
TYPICAL BRIDGE SECTION

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



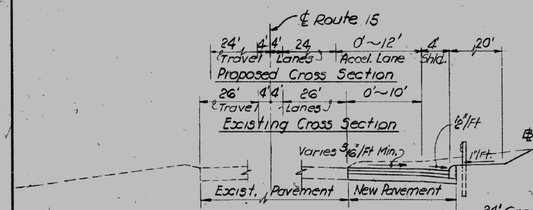
TYPICAL SECTION ROUTE 136

SCALE: 1" = 10'



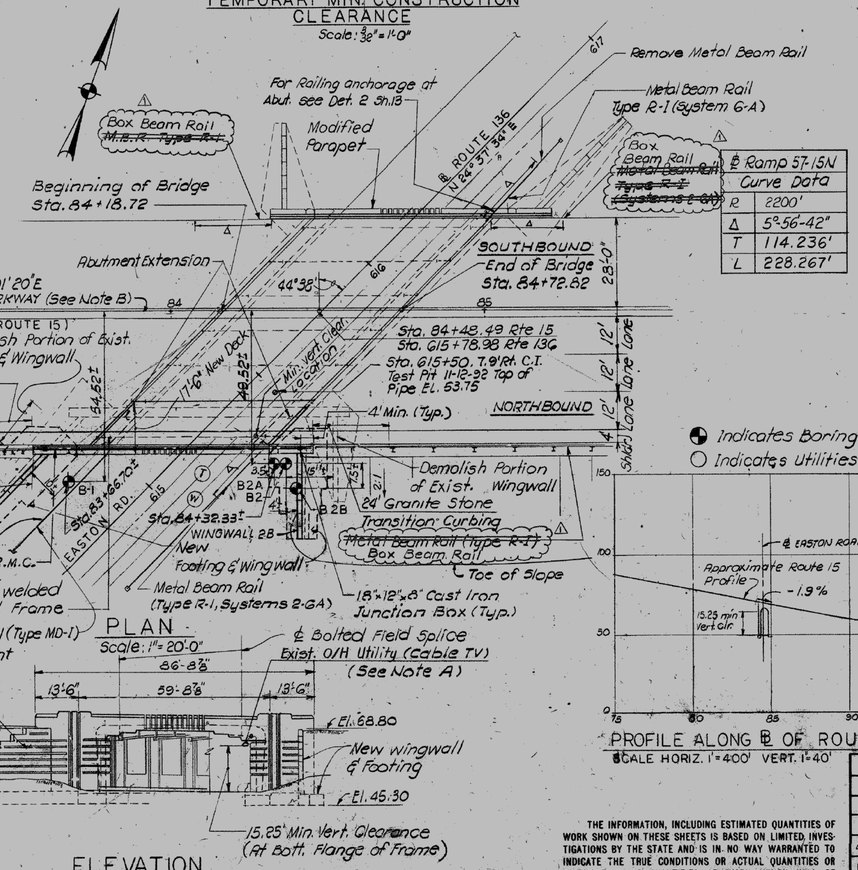
TEMPORARY MIN. CONSTRUCTION CLEARANCE

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



TYPICAL SECTION ROUTE 15

N.T.S.

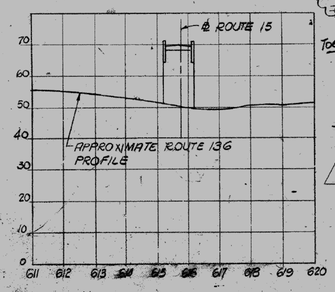


PLAN

Scale: 1" = 20'-0"

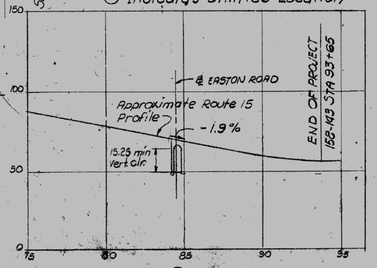
ELEVATION

Scale: 1" = 20'-0"



PROFILE ALONG ℄ OF ROUTE 136

SCALE HORIZ. 1" = 200' VERT. 1" = 20'



PROFILE ALONG ℄ OF ROUTE 15

SCALE HORIZ. 1" = 400' VERT. 1" = 40'

NOTE "A"

Contractor shall submit to the Engineer for approval a method of supporting and protecting the existing cable TV lines during construction.

NOTE "B"

Dimensions of existing bridge, stations and off-sets shown on these plans are based on original contract drawings dated 1937, 1983 & survey provided by Conn. DOT dated May 1990.

Contractor shall verify all dimensions in the field.

△ Indicates 24" Granite Stone Transition Curbing

THIS SHEET CORRECTED

Revised Sheet

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NO.	DATE	DESCRIPTION
1	9-12-94	Added Box Beam Rail

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

GENERAL PLAN, ELEVATION & TYPICAL SECTION

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER CF DRAFTER DB CHECKER SA
APPROVED [signature] DATE 9/10/99
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 TOTAL SHEETS 16

468-01

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\75_SB_158-211_Brg00731_OriginalDrawings_General_Plan.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: [signature]

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON RD

PROJECT NO. 158-211
DRAWING NO. S-46
SHEET NO. 02.02.47

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED 4-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	116	187

BRIDGE QUANTITIES

ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION – EARTH (COMPLETE)	C.Y.	600
PERVIOUS STRUCTURE BACKFILL	C.Y.	625
BITUMINOUS CONCRETE CLASS 1	TON	7
BITUMINOUS CONCRETE CLASS 12	TON	5
PARTIAL REMOVAL OF SUPERSTRUCTURE (SITE NO.1)	L.S.	L.S.
SAW CUT CONCRETE	L.F.	200
SHEAR CONNECTORS	L.S.	L.S.
CLASS "A" CONCRETE	C.Y.	453
CLASS "F" CONCRETE	C.Y.	75
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	130
DEFORMED STEEL BARS	LB.	27450
DEFORMED STEEL BARS (EPOXY COATED)	LB.	14000
DRILLING & GROUTING REINFORCING BARS	L.F.	190
STRUCTURAL STEEL	CWT.	180
CONCRETE CYLINDER CURING BOX	EA.	1
MEMBRANE WATERPROOFING (SHEET)	S.Y.	100
DAMPPROOFING	S.Y.	250
TEMPORARY SHEET PILING	S.F.	3400
(8"x16") SLOPED GRANITE STONE CURBING FOR BRIDGES	L.F.	175
PROTECTIVE COMPOUND FOR BRIDGES	S.Y.	60
REMOVAL OF EXISTING MASONRY	C.Y.	79
(18"x12"x8") CAST IRON JUNCTION BOX	EA.	2
2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	90
ABRASIVE BLAST CLEANING & FIELD PAINTING OF STRUCTURE (SITE NO.1)	L.S.	L.S.
BAGGED STONE	C.F.	40
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	44
DISPOSAL OF DEBRIS (CONTAMINATED)	BARREL	1
DISPOSAL OF DEBRIS (HAZARDOUS)	BARREL	1
GRANULAR FILL	C.Y.	52
CLASS 3 CONTAINMENT AND COLLECTION OF SURFACE PREPARATION DEBRIS (SITE NO.1)	L.S.	L.S.
SAWING & SEALING JOINTS	L.F.	45

GENERAL NOTES:

SPECIFICATIONS:

CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 814(1988) AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (AASHTO 1989), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL (1985).

ALLOWABLE DESIGN STRESSES:

CLASS 'A' CONCRETE BASED ON fc'=3000psi
CLASS 'F' CONCRETE BASED ON fc'=4000psi

REINFORCEMENT (ASTM A615 GRADE 60) fs (Tensile)=24,000psi

STRUCTURAL STEEL (ASTM A709 GRADE 50W PAINTED) FT = 27,000psi ALL THICKNESSES

LIVE LOAD HS 20-44

FUTURE PAVING ALLOWANCE: NONE

COMPOSITE CONSTRUCTION: NO TEMPORARY INTERMEDIATE SUPPORTS SHALL BE USED DURING THE PLACING AND SETTING OF THE CONCRETE DECK SLAB. TEMPORARY SUPPORTS MAY BE USED FOR STRUCTURAL STEEL ERECTION ONLY. LIVE AND SUPERIMPOSED DEAD LOADS WILL BE PERMITTED WHEN DIRECTED BY THE ENGINEER BUT NOT LESS THAN 10 DAYS AFTER THE FINAL PORTION OF THE DECK SLAB HAS BEEN PLACED.

CLASS 'A' CONCRETE: CLASS 'A' CONCRETE SHALL BE USED FOR THE SUBSTRUCTURE.

CLASS 'F' CONCRETE: CLASS 'F' CONCRETE SHALL BE USED FOR THE DECK & PARAPETS.

FUTURE PAVING ALLOWANCE: NONE

JOINT SEAL: SEE SPECIAL PROVISIONS.

PARAFFIN: THE COST OF FURNISHING & APPLYING PARAFFIN IS INCLUDED IN THE ITEM CLASS 'F' CONCRETE.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT:

ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS:

ALL REINFORCEMENT IN THE SUPERSTRUCTURE INCLUDING THE CONCRETE DECK SLAB AND THE PARAPETS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM FOR "DEFORMED STEEL BARS (EPOXY COATED)."

ALL REINFORCEMENT IN THE TOP MAT OF THE CONCRETE APPROACH SLABS INCLUDING THOSE IN THE HEADERS SHALL BE EPOXY COATED. THESE BARS ARE ROADWAY ITEMS AND SHALL BE INCLUDED IN THE ROADWAY ITEM "DEFORMED STEEL BARS (EPOXY COATED)."

PAINT: PAINT SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIAL PROVISION, "FIELD PAINTING OF STRUCTURE". THE COLOR OF THE TOPCOAT MATERIAL ON THE STRUCTURAL STEEL SHALL CONFORM TO FEDERAL STANDARD COLOR NO. 26440. [APPROXIMATELY THE DEPARTMENT'S STANDARD BRIDGE COLOR NO. 206 (GRAY)].

BITUMINOUS CONCRETE OVERLAY:

THIS SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE BITUMINOUS CONCRETE CLASS (12) (1" THICK) AND THE SECOND SHALL BE BITUMINOUS CONCRETE – CLASS (1) (1 1/2" THICK MINIMUM).

FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

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

DECIMAL DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

PROTECTION OF ROADWAY BELOW STRUCTURE:

1. DEMOLITION, REMOVAL AND CLEANING OPERATIONS SHALL BE CONDUCTED WITH MEASURES THAT PREVENT MATERIALS AND DEBRIS FROM FALLING BELOW THE BRIDGE. SUCH MEASURES SHALL INCLUDE NETS, SCREENS, PLATFORMS OR OTHER PROTECTIVE DEVICES, APPROPRIATE FOR THIS APPLICATION AND APPROVED BY THE ENGINEER.
2. ALL MATERIALS FALLING BELOW THE BRIDGE SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF BY THE CONTRACTOR.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISION "BEST MANAGEMENT PRACTICES FOR PROTECTION OF THE ENVIRONMENT."

TEMPORARY SHEET PILING:

THE USE OF VIBRATORY HAMMERS TO DRIVE OR REMOVE TEMPORARY SHEET PILING WILL NOT BE ALLOWED.

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

UTILITIES: THE CONTRACTOR SHALL PROTECT THE UNDERGROUND AND OVERHEAD UTILITIES IN ACCORDANCE WITH THE SPECIAL PROVISION "PROTECTION OF EXISTING UTILITIES.
(CABLE T.V., WATERMAIN AND TELEPHONE LINES) DURING CONSTRUCTION. THE FOLLOWING UTILITY COMPANIES HAVE BEEN IDENTIFIED AS HAVING UTILITIES IN THE VICINITY OF THE BRIDGE, AS SHOWN ON THE PLANS:

1. CABLEVISION OF CONNECTICUT.
2. BRIDGEPORT HYDRAULIC CO.
3. SOUTHERN NEW ENGLAND TELEPHONE CO.

STRUCTURAL STEEL NOTES:

1. "STRUCTURAL STEEL (LOW ALLOY) SHALL CONFORM TO ASTM A709." GRADE 50W (PAINTED).
2. WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO ANSI/AASHTO/AWS D1.5-88 BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
3. "BOLTED FIELD SPLICES, OTHER THAN THOSE INDICATED ON THE PLANS, WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO THE SUBMISSION OF SHOP PLANS. IF ALLOWED, THESE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPLICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO EXTRA EXPENSE TO THE STATE."
4. "ALL SHOP GROOVE WELDS IN THE WEB AND FLANGES SHALL BE COMPLETELY INSPECTED BY RADIOGRAPHIC OR ULTRASONIC TESTING AND FINISHED SMOOTH AND FLUSH WITH THE BASE METAL ON ALL SURFACES BY GRINDING IN THE DIRECTION OF APPLIED STRESS LEAVING THE SURFACES FREE FROM DEPRESSIONS. CHIPPING MAY BE USED PROVIDED IT IS FOLLOWED BY SUCH GRINDING (THE GRINDING SHALL NOT REDUCE THE THICKNESS OF THE BASE METAL BY MORE THAN 1/32 OF AN INCH OR FIVE PERCENT (5%) OF THE THICKNESS, WHICHEVER IS SMALLER.)"
5. "ALL WEB TO FLANGE AND WEB TO BEARING STIFFENER FILLET WELDS SHALL BE INSPECTED BY THE MAGNETIC PARTICLE METHOD. AT LEAST ONE (1) FOOT OF EVERY TEN (10) FOOT LENGTH OF FILLET WELD AND ONE (1) FOOT OF EACH FILLET WELD LESS THAN TEN (10) FEET IN LENGTH SHALL BE TESTED. IF UNACCEPTABLE DISCONTINUITIES ARE FOUND IN ANY TEST LENGTH OF WELD, THE FULL LENGTH OF THE WELD, OR FIVE (5) FEET ON EITHER SIDE OF THE TEST LENGTH, WHICHEVER IS LESS, SHALL BE TESTED."
6. "MULTIPLE PASS WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER."
7. "SHOP FLANGE SPLICES SHALL BE LOCATED A MINIMUM OF SIX (6) INCHES FROM WEB SPLICES."
8. STIFFENERS AND CONNECTION PLATES SHALL BE LOCATED A MINIMUM SIX (6) INCHES FROM FLANGE OR WEB SPLICES."
9. "INTERMEDIATE STIFFENERS SHALL BE PLACED ONLY ON THE INSIDE FACE OF FASCIA GIRDERS. THE SPACING SHALL BE DETERMINED BY FABRICATION REQUIREMENTS BUT WITHIN THE MAXIMUM SPACING SHOWN."
10. "THE STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER THE AISC QUALITY CONTROL PROGRAM, CATEGORY III, MAJOR STEEL BRIDGES."
11. "THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO INSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN BEING."
12. STIFFENERS TO BE VERTICAL AFTER THE APPLICATION OF DEAD LOADS.
13. THERE SHALL BE NO UNAUTHORIZED WELDING TO TENSION AREAS.

THIS SHEET NOT CORRECTED

D:\YCONNWP\GN731

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

GENERAL NOTES

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER DM DRAFTER YB CHECKER SA
APPROVED S. Weisman DATE 9-10-90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 731 STRUCTURE SHEET NO. 2 OF 16

158-143 468-01 116

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\76_SB_158-211_Brg00731_OriginalDrawings_General_Notes.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

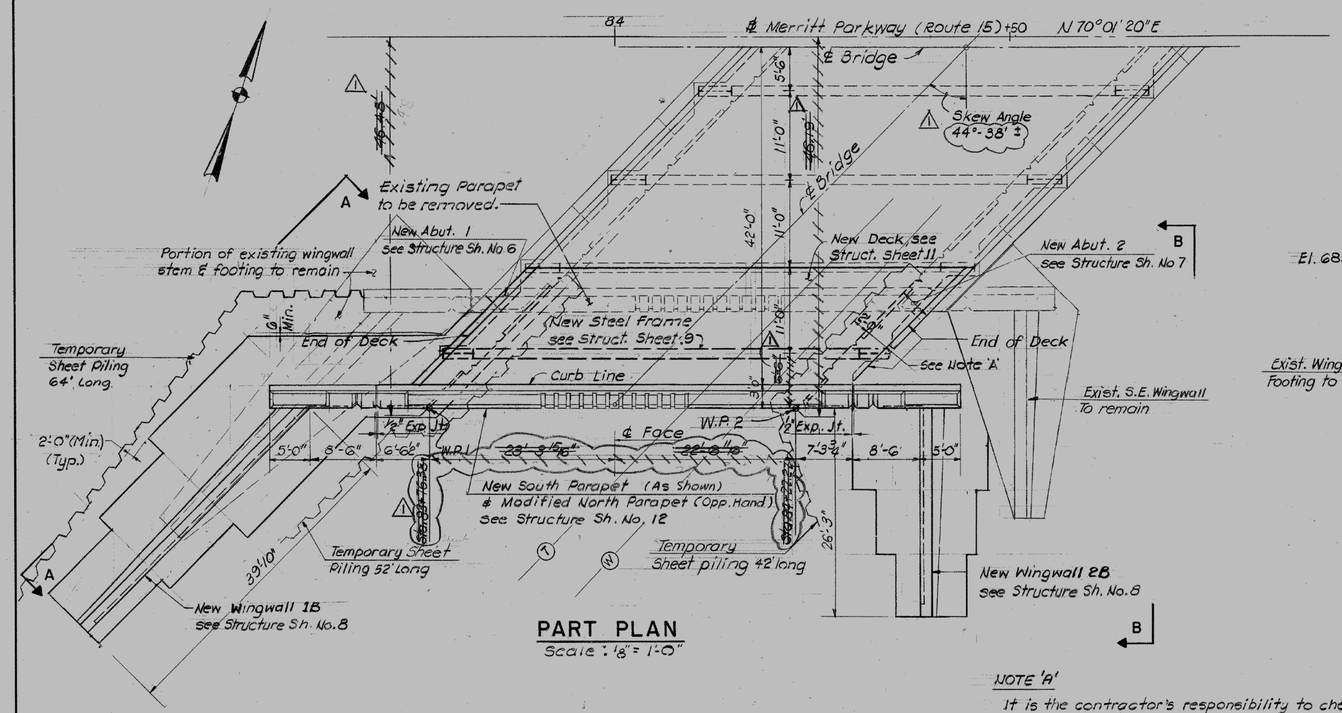
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON RD

PROJECT NO. 158-211
DRAWING NO. S-47
SHEET NO. 02.02.48

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

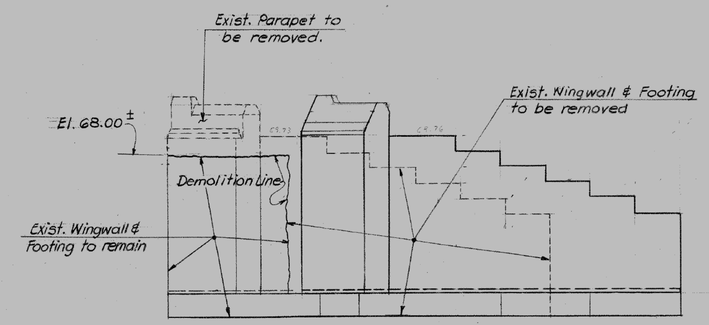
FORM NO. ENG 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	118	187



PART PLAN

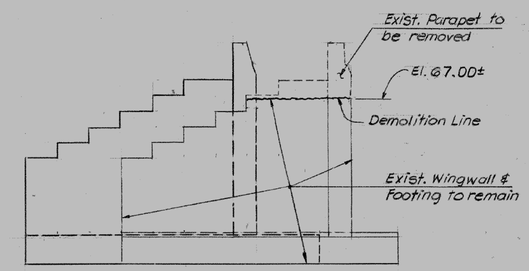
Scale: 1/8" = 1'-0"



(Temporary Sheet Piling not shown)

VIEW A-A

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



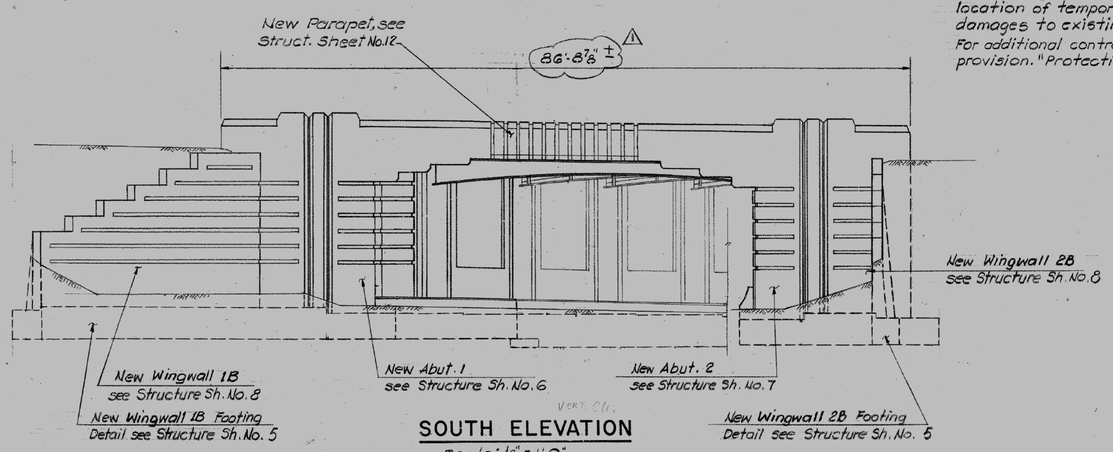
VIEW B-B

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

NOTE 'A'

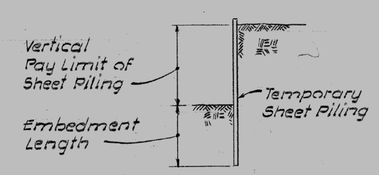
It is the contractor's responsibility to check the location of existing utilities prior to determining the exact location of temporary sheet piling to prevent any damages to existing utilities.

For additional contractor's reponsibilities, see special provision. "Protection of existing utilities."



SOUTH ELEVATION

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



PAY LIMIT OF SHEET PILING

THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS & STA'S.

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

BRIDGE EXTENSION - PLAN & ELEVATION

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER L.T. DRAFTER C.Y. CHECKER K.C.
APPROVED S. Wessman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 4 of 16

158-143 468-01 118

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\77_SB_158-211_Brg00731_OriginalDrawings_Bridge_Extension.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON RD

PROJECT NO. 158-211

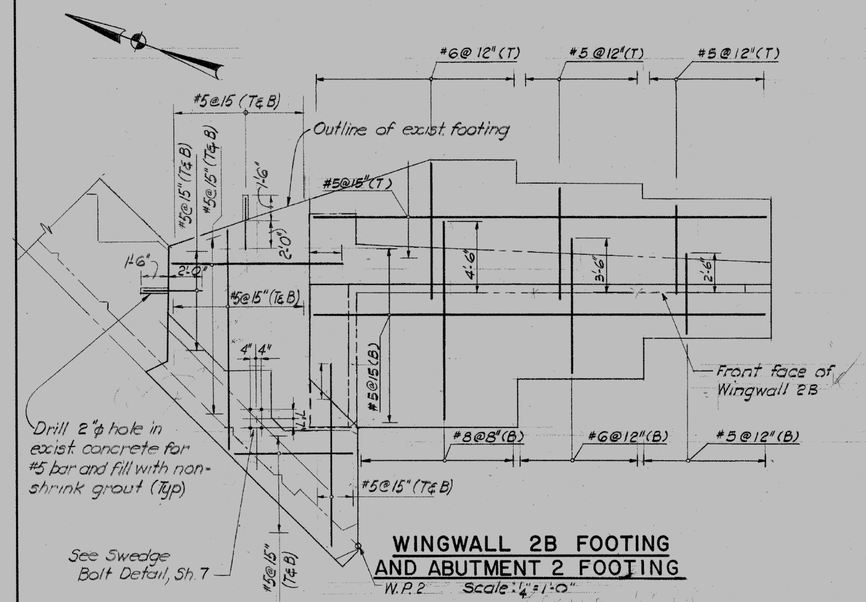
DRAWING NO. S-48

SHEET NO. 02.02.49

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

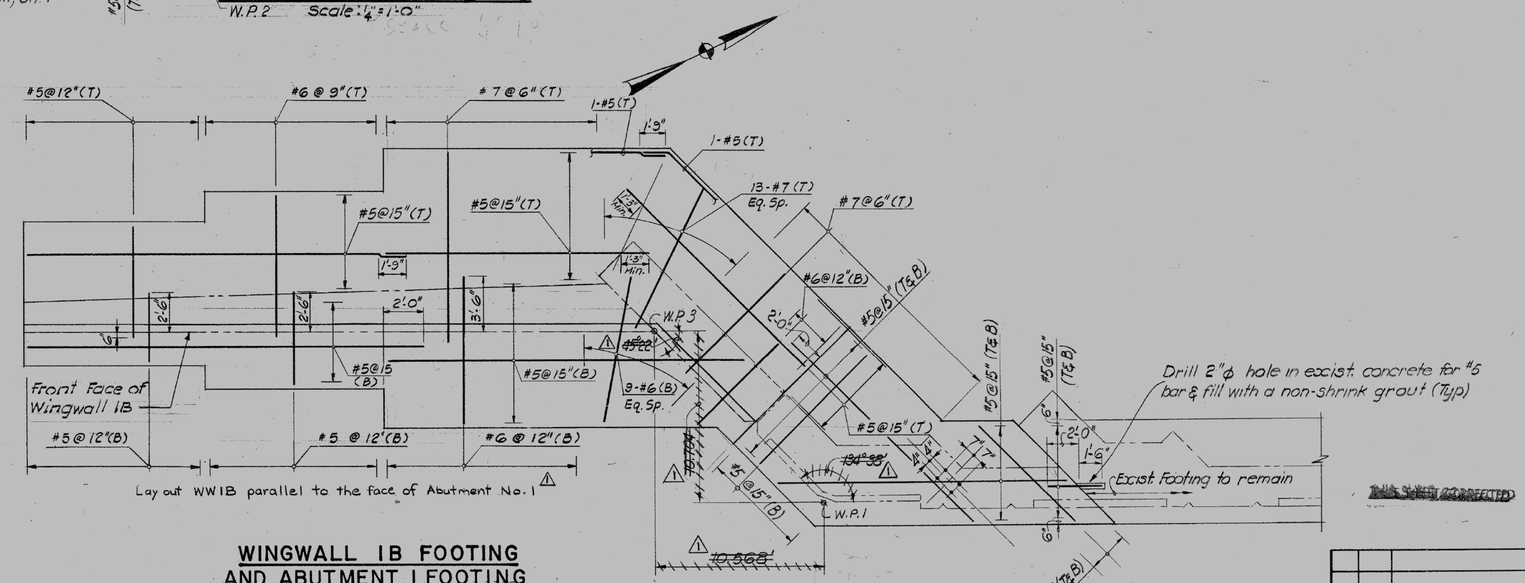
FORM NO. ENG 154 ED. 1-88

FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	119	167



WINGWALL 2B FOOTING AND ABUTMENT 2 FOOTING

W.P. 2 Scale: 1/4" = 1'-0"



WINGWALL 1B FOOTING AND ABUTMENT 1 FOOTING

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

NOTE:

For Abutment & Wingwall footings layout see Str. Sh. No. 6 & 7.

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/98	DELETED DIMENSIONS & ADDED A NOTE

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

FOOTING DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER L.T.
APPROVED A. Weisman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 5 OF 16

158-143 468-01 119

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\78_SB_158-211_Brg00731_OriginalDrawings_Footings.dgn

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

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

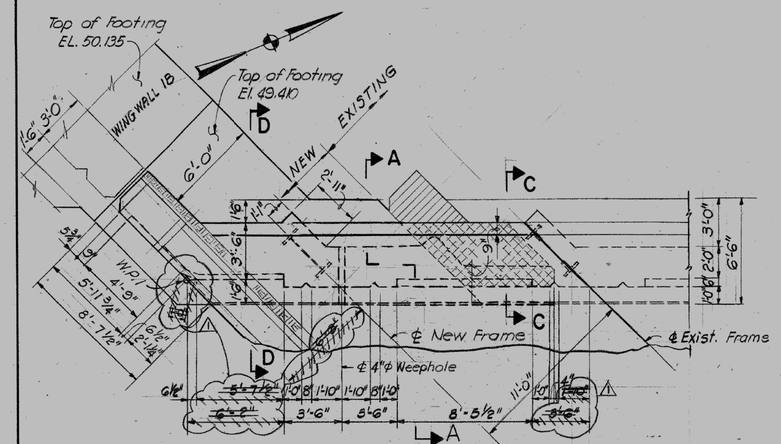
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211
DRAWING NO. S-49
SHEET NO. 02.02.50

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

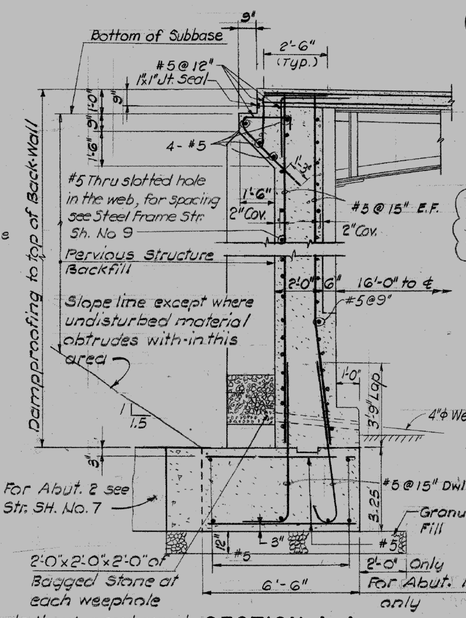
FORM NO. ENG. 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	120	187



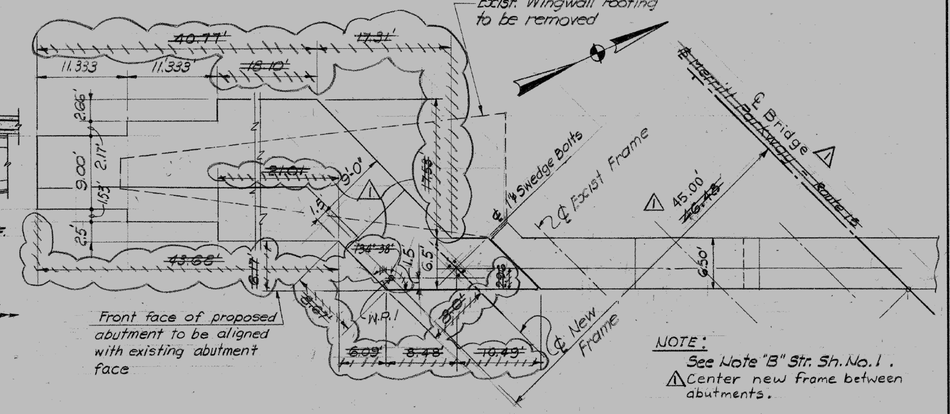
PLAN - ABUTMENT I EXTENSION

Scale: 4" = 1'-0"



SECTION A-A

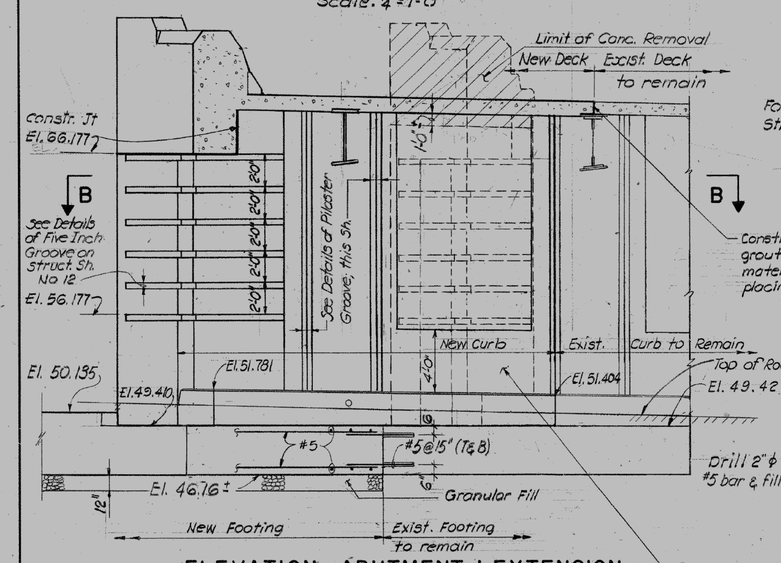
Scale: 3/8" = 1'-0"



NOTE:
See Note "B" Str. Sh. No. 1.
⚠ Center new frame between abutments.

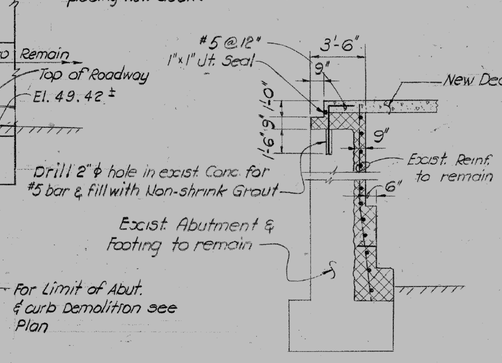
PLAN - ABUTMENT I FOOTING EXTENSION AND WINGWALL IB FOOTING

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



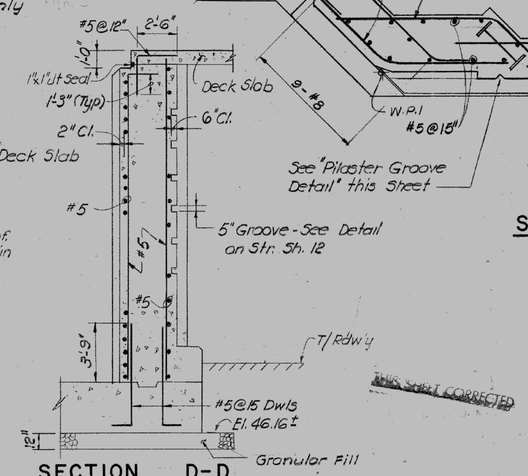
ELEVATION - ABUTMENT I EXTENSION

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



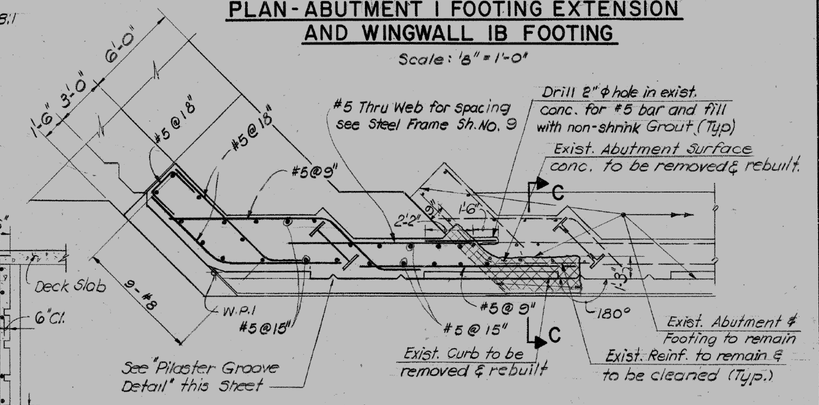
SECTION C-C

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



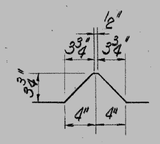
SECTION D-D

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



SECTION B-B

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



PILASTER GROOVE DETAIL

Scale: 1½" = 1'-0"

LEGEND

- Limit of Existing Concrete Removal
- Limit of Removal and Rebuilding

NOTE:
Maximum Design Foundation Pressure = 2.5 TSF (Group I)

THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS & ADDED NOTES

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

ABUTMENT I EXTENSION & FOOTING

ENGINEER	AMMANN & WHITNEY Consulting Engineers		
DESIGNER K.C.	DRAFTER C.Y.	CHECKER L.T.	
APPROVED L. Weisman		DATE 9/10/90	
STRUCTURE NO. 158-143-1		BRIDGE LOG NO. 00731	STRUCTURE SHEET NO. 6 of 16

158-143 468-01 120

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\79_SB_158-211_Brg00731_OriginalDrawings_Abutment_1.dgn

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

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

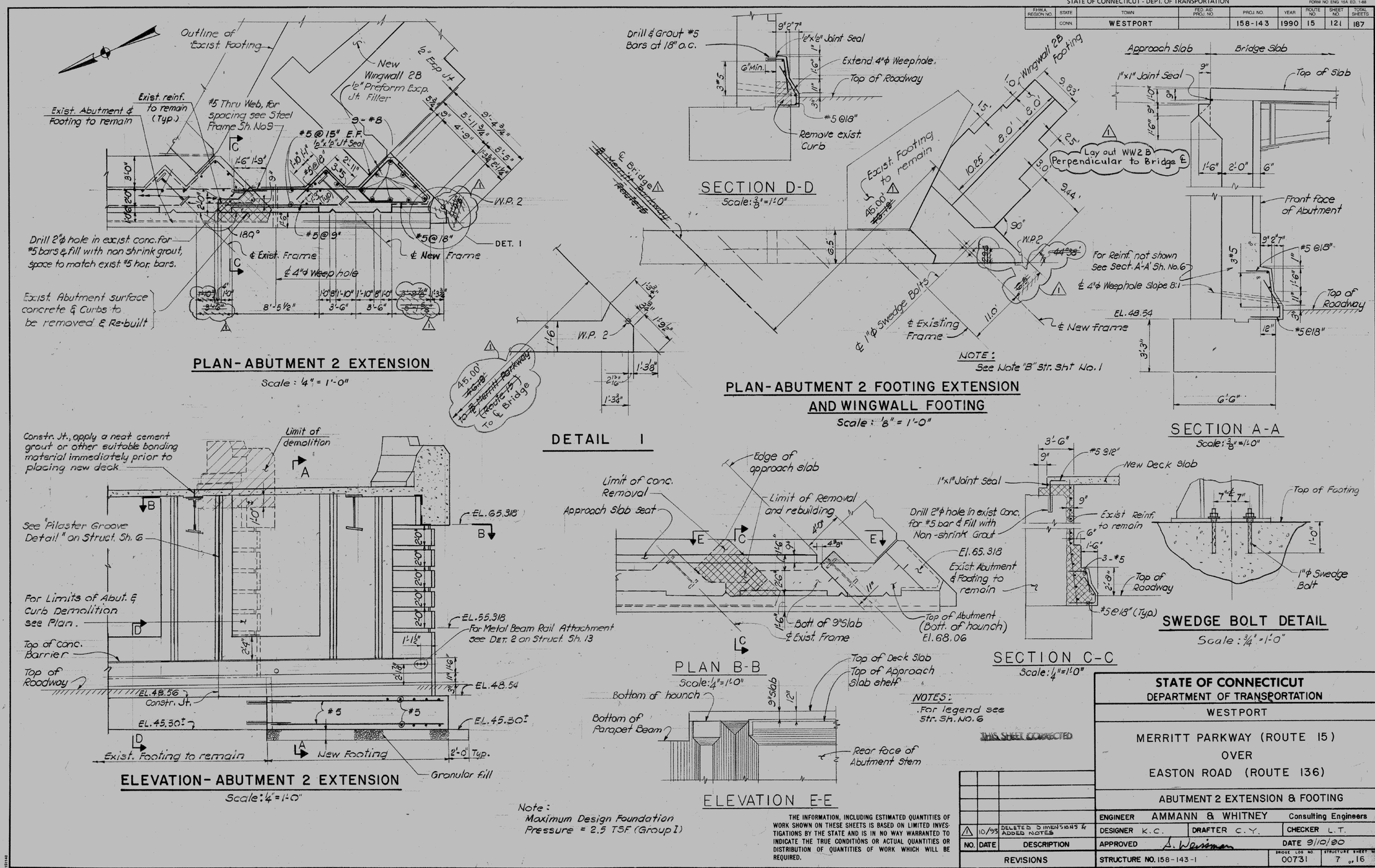
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211
DRAWING NO. S-50
SHEET NO. 02.02.51

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-68

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	121	187



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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/95	DELETED DIMENSIONS & ADDED NOTES

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

ABUTMENT 2 EXTENSION & FOOTING

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER L.T.
APPROVED A. Weisman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 7 of 16

158-143 468-01 121

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\80_SB_158-211_Brg00731_OriginalDrawings_Abutment_2.dgn

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

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

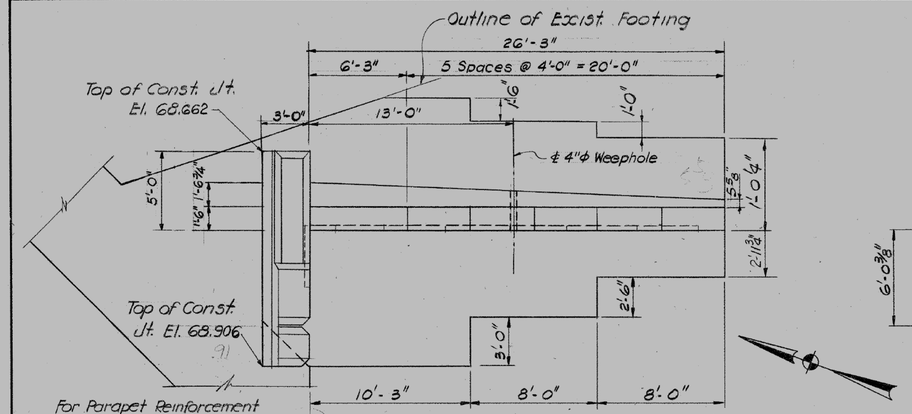
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211
DRAWING NO. S-51
SHEET NO. 02.02.52

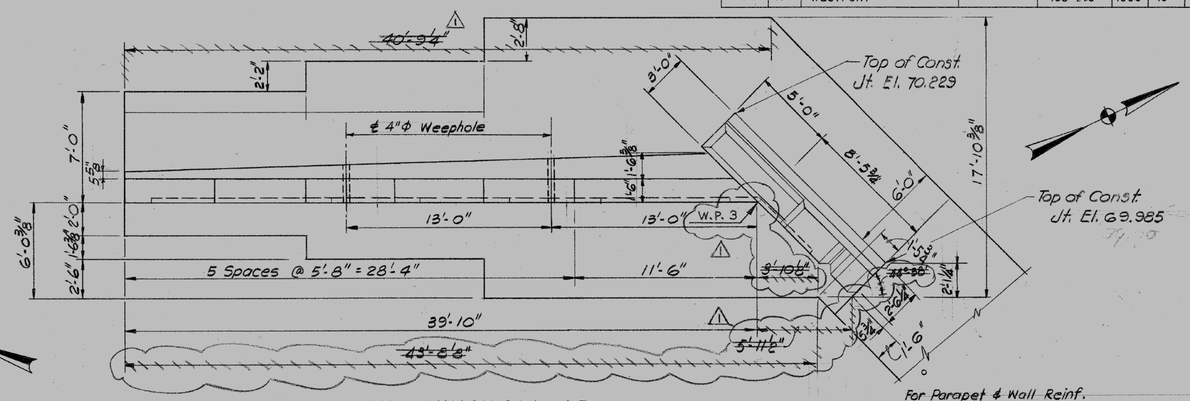
STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-88

FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	122	187

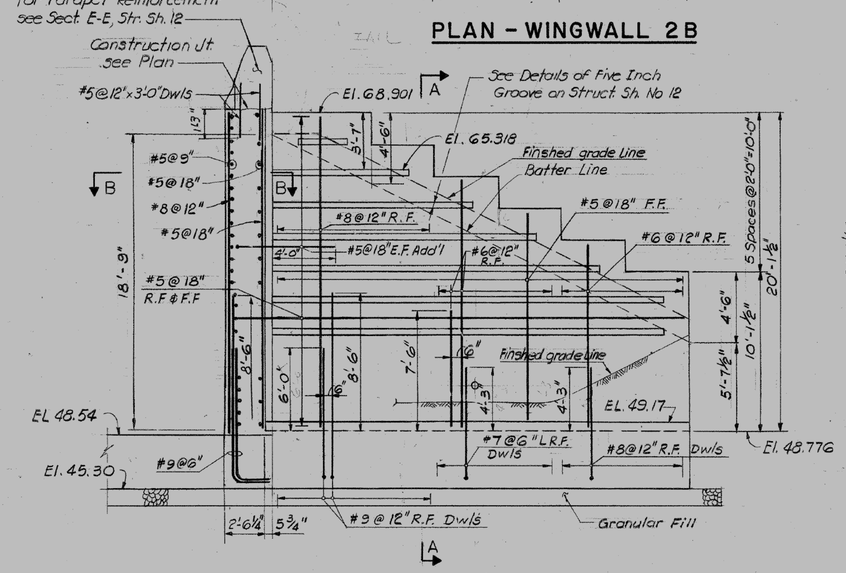


PLAN - WINGWALL 2B



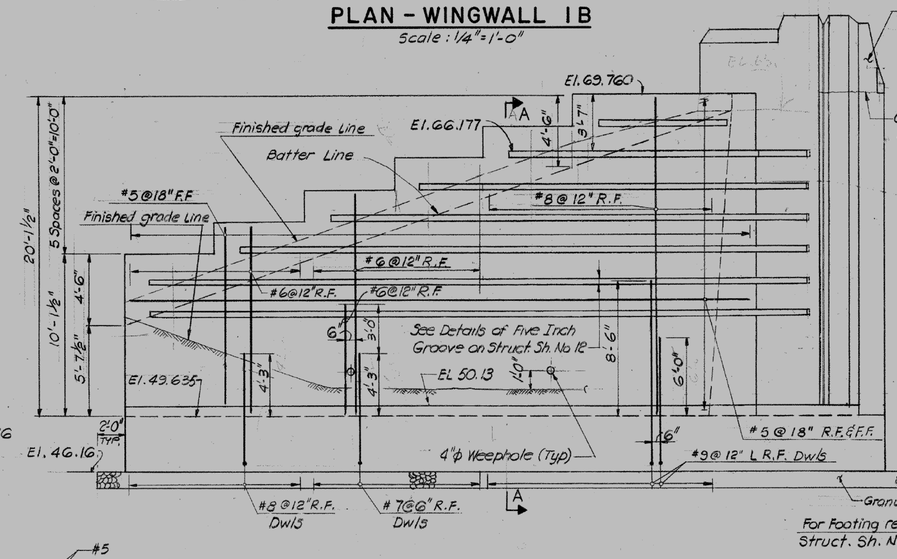
PLAN - WINGWALL 1B

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



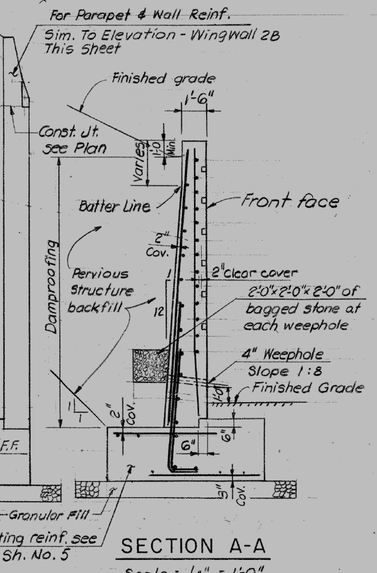
ELEVATION - WINGWALL 2B

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



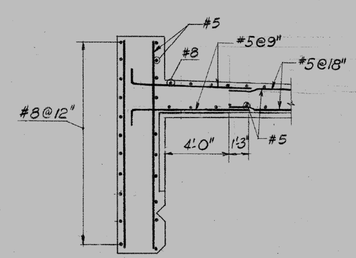
ELEVATION - WINGWALL 1B

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



SECTION A-A

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



SECTION B-B

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

LEGEND

R.F. - Rear Face
F.F. - Front Face
E.F. - Each Face

NOTE:
Maximum Design Foundation Pressure = 1.3 TSF (Group I)

NOTE:
Maximum Design Foundation Pressure = 1.8 TSF (Group I)

THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	10/93	DELETED DIMENSIONS

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

NEW WING WALLS - PLANS & ELEVATIONS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER L.T.
APPROVED S. Weisman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 8 OF 16

158-143

468-01

122

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\81_SB_158-211_Brg00731_OriginalDrawings_Wingwalls.dgn

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

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

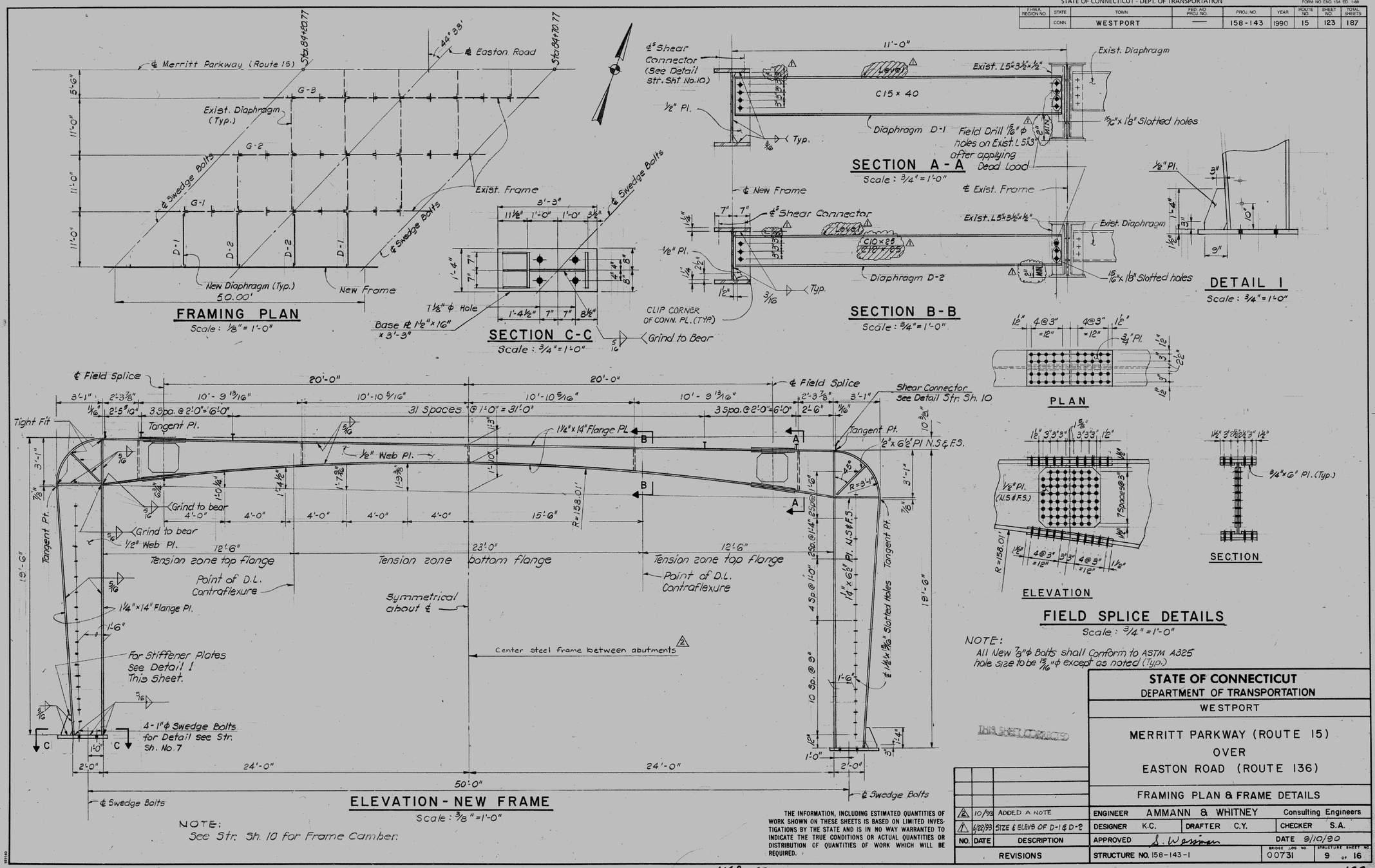
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211
DRAWING NO. S-52
SHEET NO. 02.02.53

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	123	187



NOTE:
All New 7/8" ϕ Bolts shall Conform to ASTM A325 hole size to be 15/16" ϕ except as noted (Typ.)

THIS SHEET CORRECTED

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
2	10/92	ADDED A NOTE
1	4/22/93	SIZE & ELEVS OF D-1 & D-2

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

FRAMING PLAN & FRAME DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER S.A.
APPROVED S. Weisman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOC NO. 00731 STRUCTURE SHEET NO. 9 OF 16

158-143 46P-01 123

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\82_SB_158-211_Brg00731_OriginalDrawings_FramingPlan.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

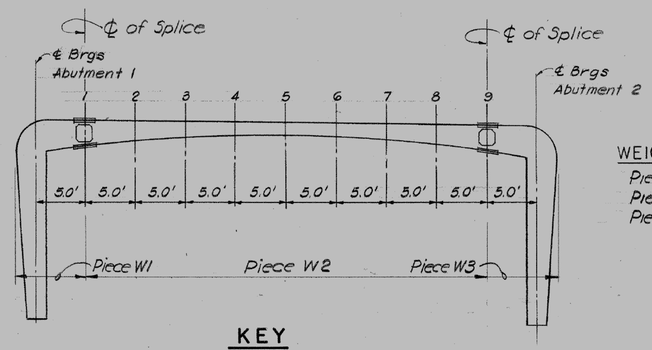
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211
DRAWING NO. S-53
SHEET NO. 02.02.54

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-88

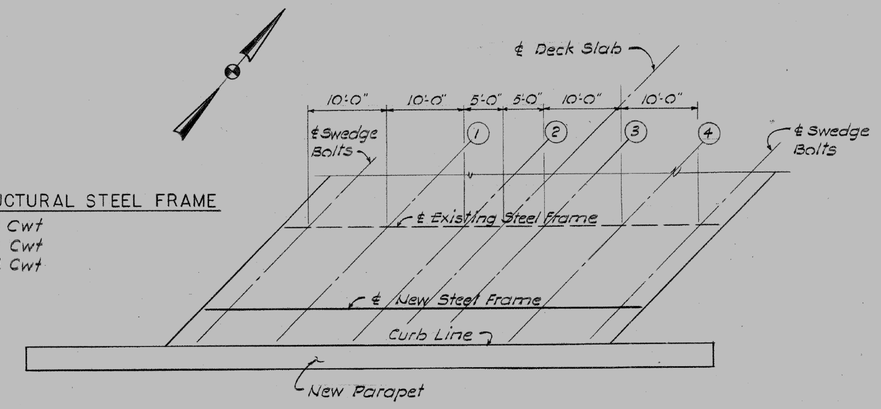
FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	124	187



KEY
N.T.S.

WEIGHT OF STRUCTURAL STEEL FRAME

Piece W1 = 54 Cwt
Piece W2 = 72 Cwt
Piece W3 = 54 Cwt



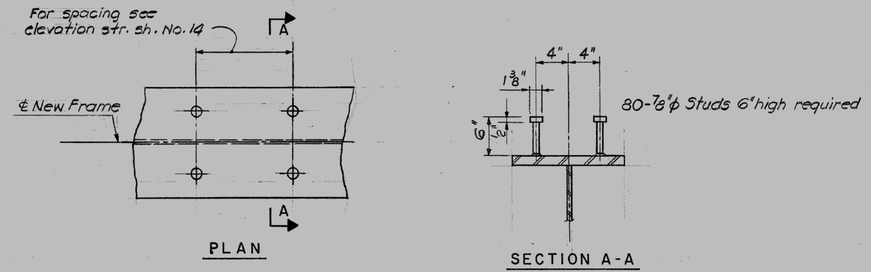
KEY PLAN

STEEL FRAME DEFLECTION AND CAMBER (FEET)

FRAME		SPAN LOCATION (Refer to key)										
		℄ Brg. Abut. 1	1	2	3	4	5	6	7	8	9	℄ Brg. Abut. 2
	Structural Steel	0	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.001	0.001	0
	Other D.L.	0	0.007	0.018	0.031	0.043	0.048	0.043	0.031	0.018	0.007	0
	Total D.L.	0	0.008	0.019	0.034	0.046	0.051	0.046	0.034	0.019	0.008	0

ELEVATION OF TOP CONCRETE DECK SLAB

LOCATION	℄ SWEDGE BOLTS	1	2	3	4	℄ SWEDGE BOLTS
℄ OF EXIST. STEEL FRAME	69.853	69.672	69.491	69.311	69.130	68.949
℄ OF NEW STEEL FRAME	69.882	69.701	69.520	69.340	69.159	68.978
CURB LINE	69.891	69.710	69.529	69.349	69.168	68.987



SHEAR STUD CONNECTOR DETAIL
Scale : 1½" = 1'-0"

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

FRAME CAMBER & ELEVATIONS OF DECK SLAB

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER C.F. DRAFTER C.Y. CHECKER S.A.
APPROVED L. Weissman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 10 OF 16

158-143 46P-01 124

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\83_SB_158-211_Brg00731_OriginalDrawings_FramingCamber.dgn

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

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

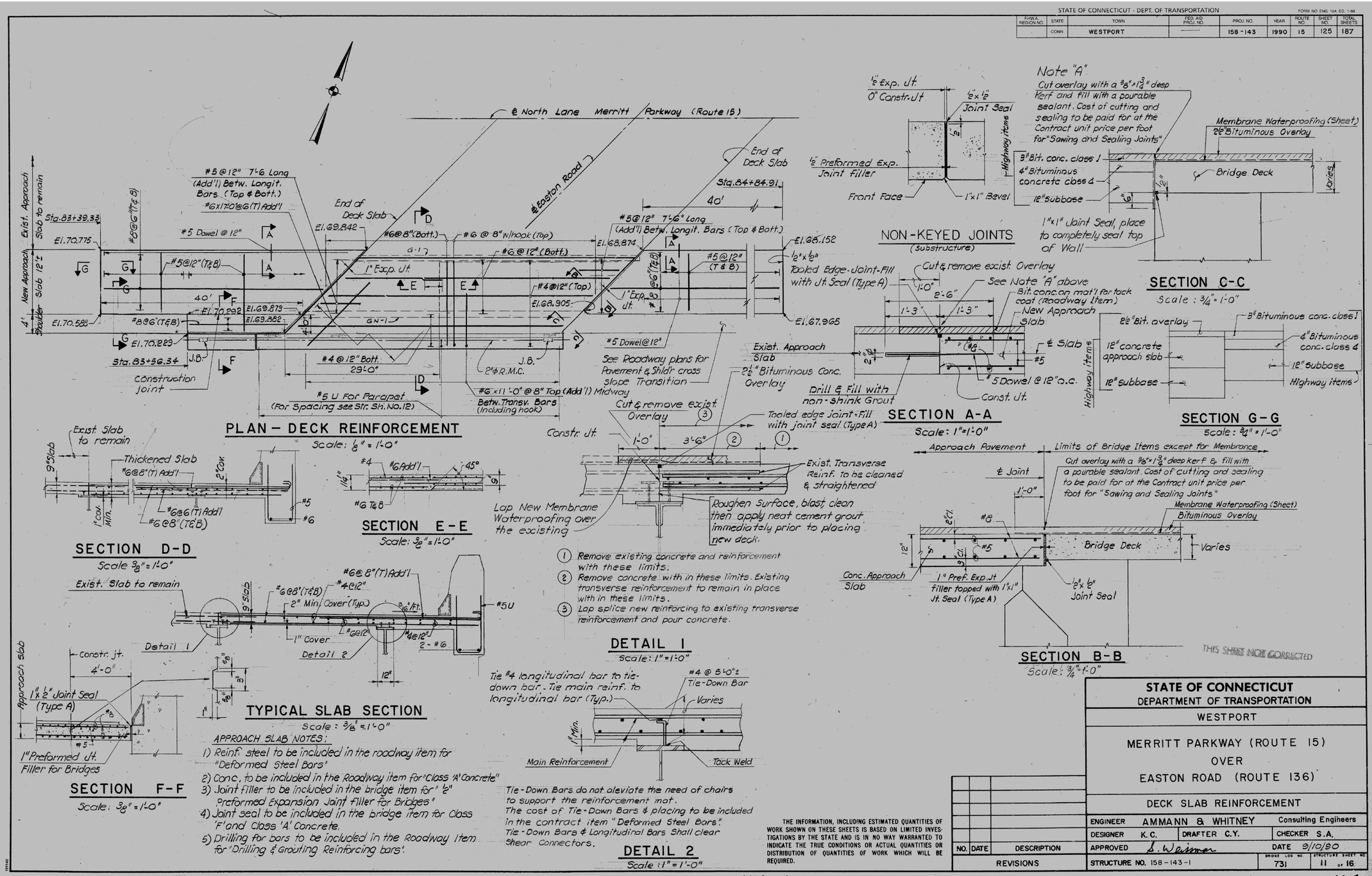
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211
DRAWING NO. S-54
SHEET NO. 02.02.55

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A. ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	125	187



PLAN – DECK REINFORCEMENT
Scale: 1/8" = 1'-0"

SECTION C-C
Scale: 3/4" = 1'-0"

SECTION A-A
Scale: 1" = 1'-0"

SECTION G-G
Scale: 3/4" = 1'-0"

SECTION D-D
Scale 3/8" = 1'-0"

SECTION E-E
Scale: 3/8" = 1'-0"

SECTION B-B
Scale: 3/4" = 1'-0"

SECTION F-F
Scale: 3/8" = 1'-0"

TYPICAL SLAB SECTION
Scale: 3/8" = 1'-0"

APPROACH SLAB NOTES:

1) Reinf. steel to be included in the roadway item for "Deformed Steel Bars"
2) Conc. to be included in the Roadway item for "Class 'A' Concrete"
3) Joint filler to be included in the bridge item for "1/2" Preformed Expansion Joint Filler for Bridges"
4) Joint seal to be included in the bridge item for Class 'F' and Class 'A' Concrete.
5) Drilling for bars to be included in the Roadway Item for "Drilling & Grouting Reinforcing bars".

(1) Remove existing concrete and reinforcement with these limits.
(2) Remove concrete with in these limits. Existing transverse reinforcement to remain in place with in these limits.
(3) Lap splice new reinforcing to existing transverse reinforcement and pour concrete.

DETAIL 1
Scale: 1" = 1'-0"

DETAIL 2
Scale: 1" = 1'-0"

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

DECK SLAB REINFORCEMENT

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER S.A.
APPROVED S. Weisman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 731 STRUCTURE SHEET NO. 11 OF 16

158-143 468-01 125

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\84_SB_158-211_Brg00731_OriginalDrawings_DeckSlab.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

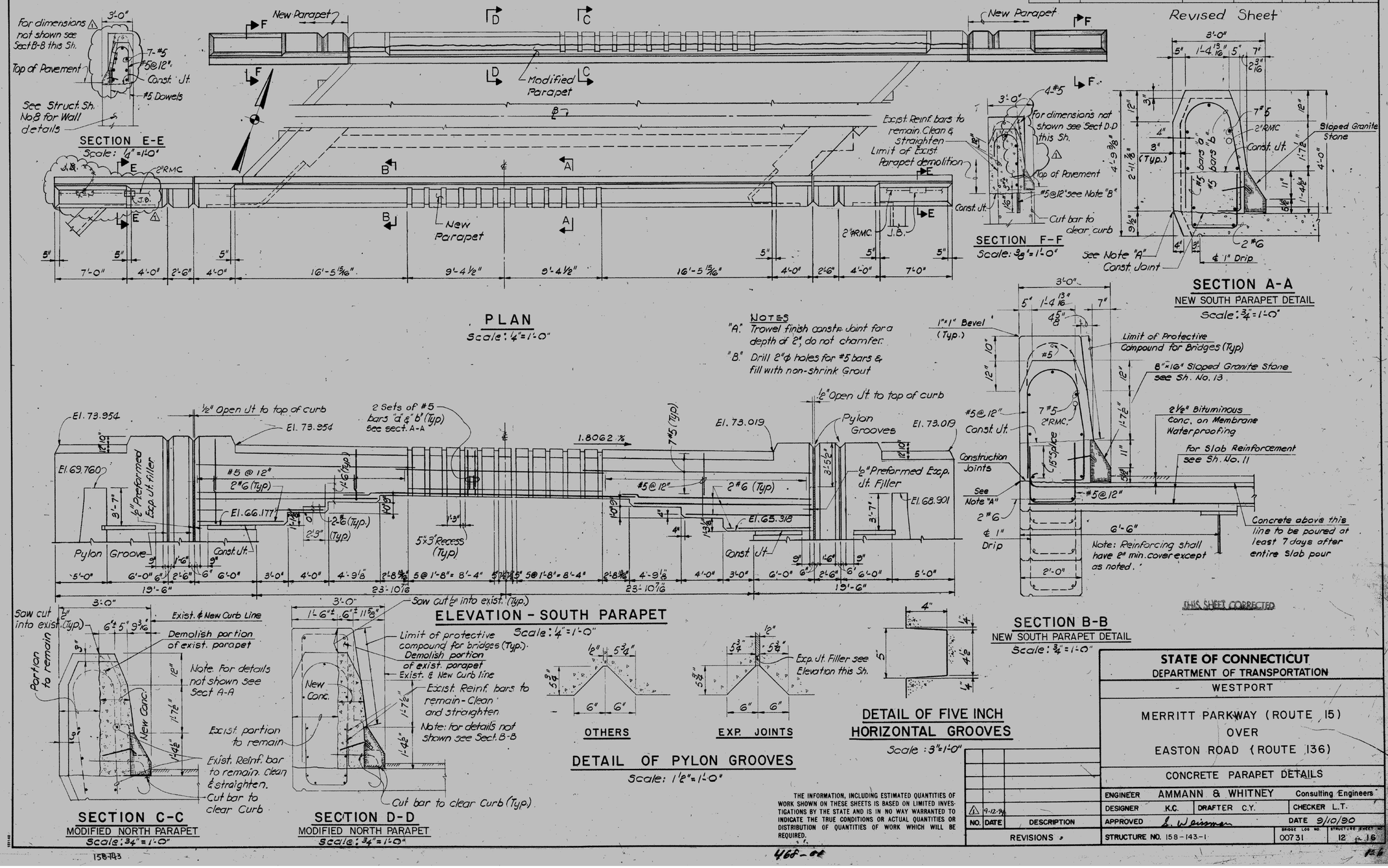
PROJECT NO. 158-211
DRAWING NO. S-55
SHEET NO. 02.02.56

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG. 15A ED. 1-88

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	———	158-143	1990	15	126-1	187

Revised Sheet



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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION
1	9-12-90	

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

CONCRETE PARAPET DETAILS

ENGINEER: AMMANN & WHITNEY, Consulting Engineers
DESIGNER: K.C. DRAFTER: C.Y. CHECKER: L.T.
APPROVED: L. Weissman DATE: 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOC NO. 00731 STRUCTURE SHEET NO. 12 of 16

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\85_SB_158-211_Brg00731_OrginalDrawings_ParapetDetails.dgn

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

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

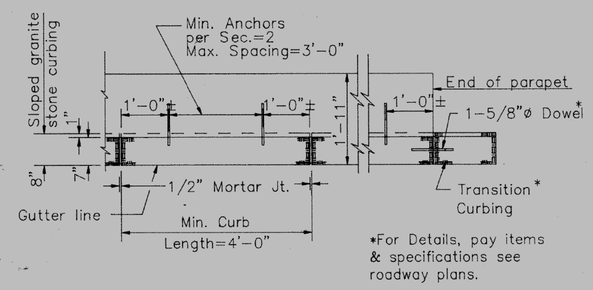
PROJECT NO. 158-211
DRAWING NO. S-56
SHEET NO. 02.02.57

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FORM NO ENG 13A ED 4-80

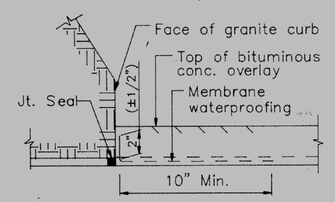
FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT		158-143	1990	15	127-1	187

Revised Sheet



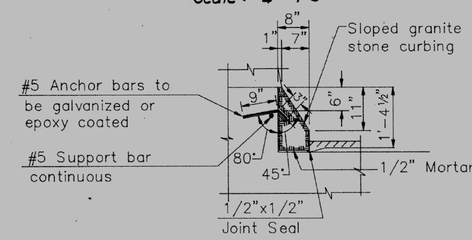
PLAN OF GRANITE CURB

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



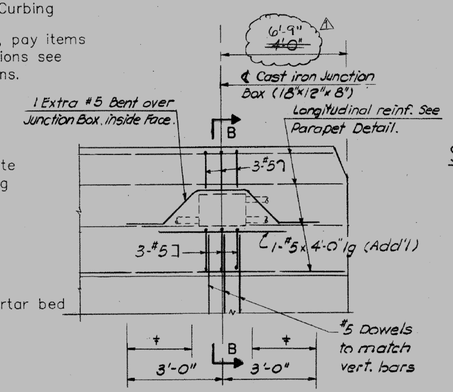
TREATMENT OF MEMBRANE WATERPROOFING AT GUTTER

SCALE: 3"=1'-0"



TYPICAL SECTION THRU SLOPED GRANITE STONE CURBING

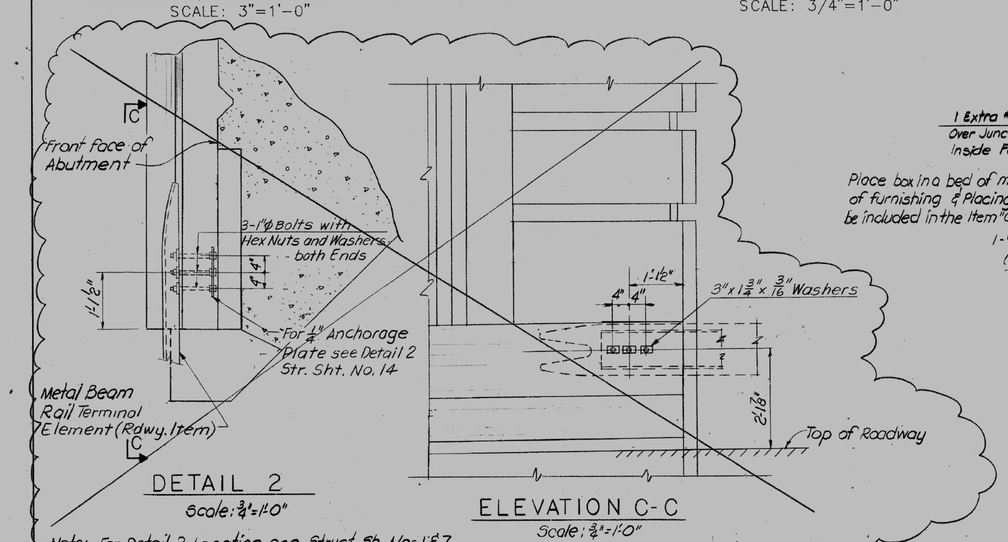
SCALE: 3/4"=1'-0"



* The vertical parapet reinf. is to be doubled (#5 @ 6") with in these limits.

ELEVATION PARAPET REINFORCEMENT JUNCTION BOX

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



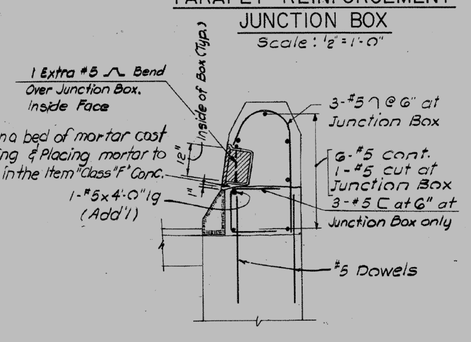
DETAIL 2

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

ELEVATION C-C

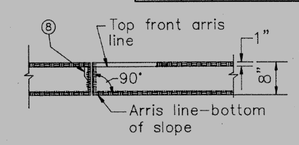
Scale: 3/4" = 1'-0"

Note: For Detail 2 Location see Struct. Sh. Nos. 1 & 7

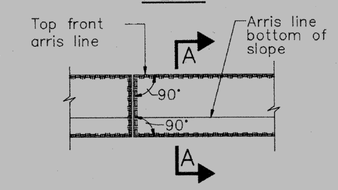


SECTION B-B

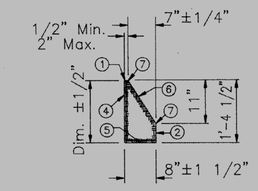
Scale: 1/2" = 1'-0"



PLAN



ELEVATION



SECTION A-A

SLOPED GRANITE STONE CURBING FOR BRIDGE

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

TOLERANCE NOTES GRANITE STONE CURBING

1. Sawed surface approximating a true plane with no projections or depressions greater than 1/4".
2. Smooth, quarry split surface, free of drill holes with projections or depressions not over 1/2"
4. Split surface shall be free of any projections over 1".
5. Sawed or split surface approximating a true plane to the specified dimensions with projection no greater than 1/4".
6. Sawed surface free of all quarry sawing and cutting marks with allowable depressions or projections not over 1/4"
7. These arris lines shall be straight and true within a ± tolerance of 1/4".
8. Ends of stones at intermediate joints shall be held full for 2" from all exposed surfaces with a permitted variation of 1/4". Beyond this area the joint may fall away a max. of 3".

THIS SHEET CORRECTED

NOTE:

All bars in parapet shall have 2" cover, except as noted.

NO.	DATE	DESCRIPTION
1	9-12-94	DELETED DETAIL

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

MISCELLANEOUS CONCRETE DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER C.F. DRAFTER C.Y. CHECKER SA
APPROVED S. Wessman DATE 2/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 13 OF 16

d:\yconnwp\deckdet

158-143

468-01

127

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\86_SB_158-211_Brg00731_OriginalDrawings_MiscConcreteDetails.dgn

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

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

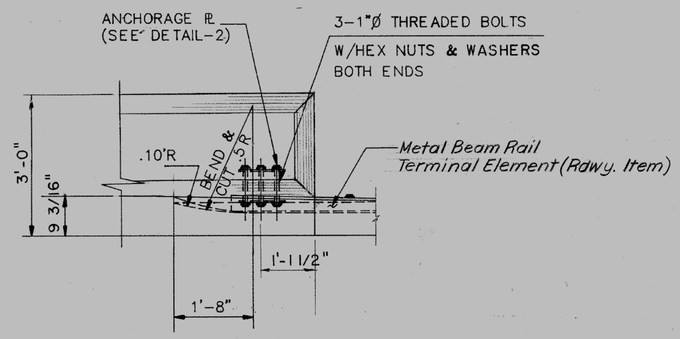
PROJECT NO. 158-211
DRAWING NO. S-57
SHEET NO. 02.02.58

STATE OF CONNECTICUT – DEPT. OF TRANSPORTATION

FORM NO. ENG. 126A ED. 4-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	—	158-143	1990	15	128	187

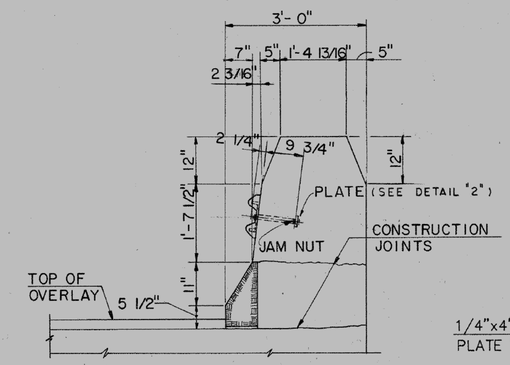
See Revised Sheet 128-1



PLAN (LEADING END)

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

SOUTHWEST AND NORTHEAST PARAPETS



LEADING END SECTION

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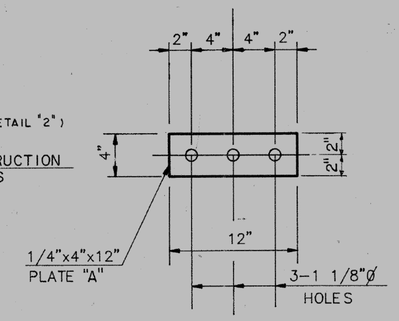
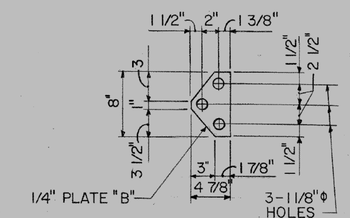


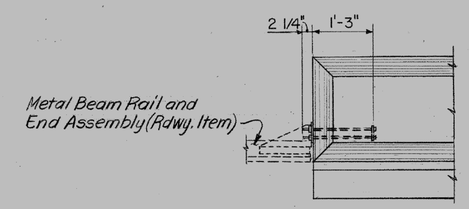
DETAIL-2

N.T.S.



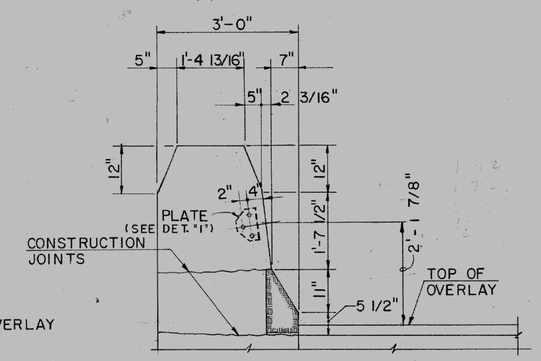
DETAIL-1

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



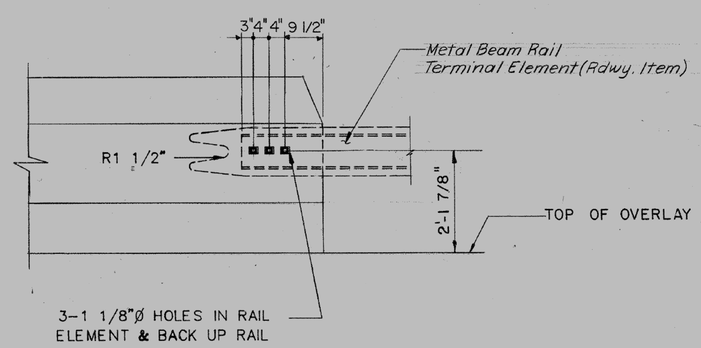
PLAN (TRAILING END)

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



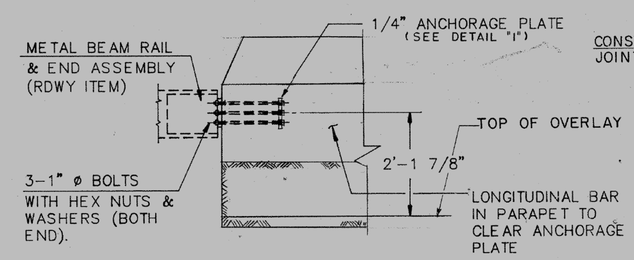
TRAILING END SECTION

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



ELEVATION (LEADING END)

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



ELEVATION (TRAILING END)

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

SOUTHEAST AND NORTHWEST PARAPETS

REVISION OF 128 SHOWN ON SHEET 128-1 INCORPORATED ON THIS SHEET NO

D:\YB2\R-MD106

THIS SHEET NOT CORRECTED

NOTE:

ANCHOR BOLTS SHALL CONFORM TO REQUIREMENTS OF ASTM A449 WITH NUTS & WASHERS CONFORMING TO A563 GRADE B. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM A153. ANCHORAGE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ALL ANCHORAGE MATERIAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "DEFORMED STEEL BARS."

METAL BEAM RAIL TYPE R-I

PERMANENT ATTACHMENT TO NEW BRIDGE PARAPETS

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

MISCELLANEOUS DETAILS

ENGINEER AMMANN & WHITNEY Consulting Engineers

DESIGNER KC | DRAFTER YB | CHECKER SA

APPROVED S. Weisman DATE 9/10/90

STRUCTURE NO. 158-143-1 | BRIDGE LOG NO. 00731 | STRUCTURE SHEET NO. 14 OF 16

158-143 468-01 128

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

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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\87_SB_158-211_Brg00731_OriginalDrawings_MiscDetails.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Boda

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

PROJECT NO. 158-211

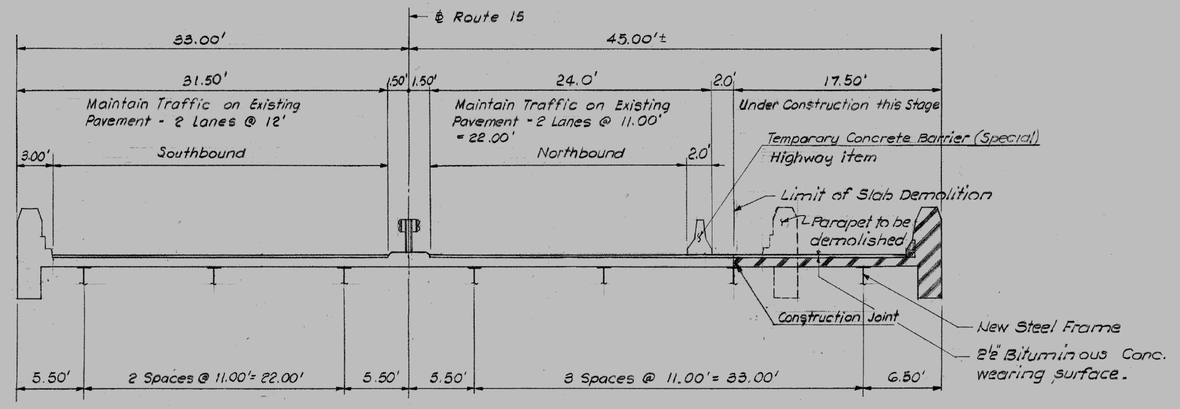
DRAWING NO. S-58

SHEET NO. 02.02.59

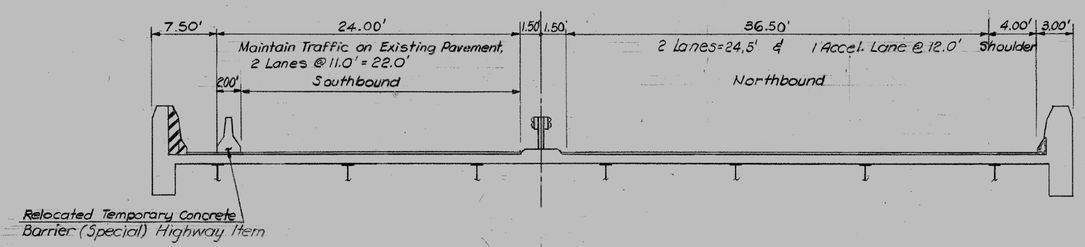
STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FORM NO. ENG 15A ED. 1-88

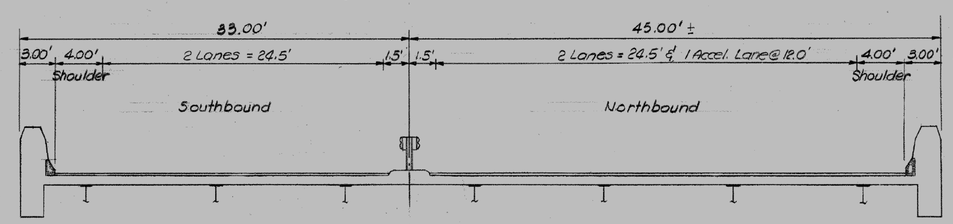
FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	WESTPORT	———	158-143	1990	15	129	187



STAGE 1



STAGE 2



FINAL CONDITION

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

LEGEND:

- Existing Deck and Parapet to remain
- Deck and Parapet under Construction

CONSTRUCTION SEQUENCES:

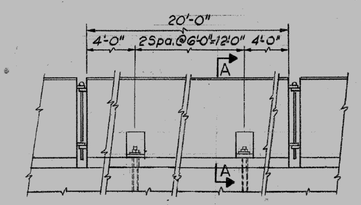
STAGE 1:

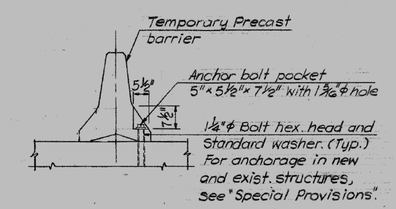
1. Place temporary barrier as shown on Stage 1.
2. Demolish existing Parapet and portion of existing Deck as shown on Stage 1.
3. Install Temporary Sheet Piling - see Structure Sh. No 4
4. Demolish portion of Abutments as shown on Structure Sh. No. 6 & 7.
5. Construct Abutment Footing and Wall and install New Steel Frame.
6. Construct New Concrete Deck and Parapet.
7. Construct New Wing Walls.
8. Construct Approach Slabs.
9. Install Metal Beam Rails at the approaches.

STAGE 2:

1. Relocate temporary barrier as shown.
2. Demolish portion of existing North Parapet - See Struct. Sheet No 12
3. Construct portion of the North Parapet.
4. Install Metal Beam Rails at the approaches.

Note:
Stages 1 & 2 can occur simultaneously.





Note: For barrier details not shown see Roadway standard sh. No. 822-A "Precast Concrete Median Barrier Curb for Temporary Traffic Control"

ELEVATION

SECTION A-A

TEMPORARY BARRIER ANCHORAGE DETAILS

N.T.S.

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

TRAFFIC CONTROL PLAN

ENGINEER AMMANN & WHITNEY Consulting Engineers
DESIGNER K.C. DRAFTER C.Y. CHECKER S.A.
APPROVED B. Weissman DATE 9/10/90
STRUCTURE NO. 158-143-1 BRIDGE LOG NO. 00731 STRUCTURE SHEET NO. 15 OF 16

158-143 46 P-01 129

PRELIMINARY DESIGN REVIEW

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\88_SB_158-211_Brg00731_OriginalDrawings_Staging.dgn

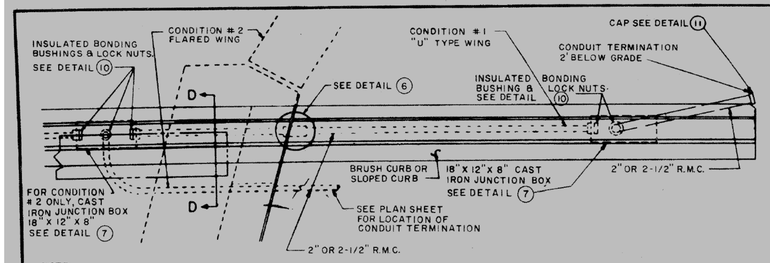
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

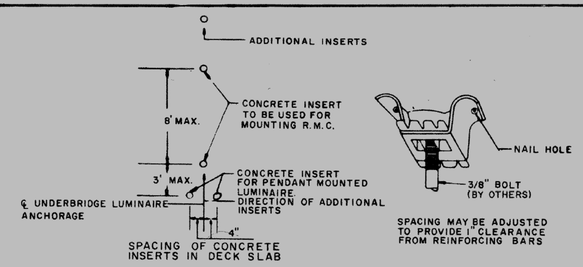
PROJECT NO. 158-211
DRAWING NO. S-59
SHEET NO. 02.02.60

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WESTPORT		158-143	1990	15	130	187

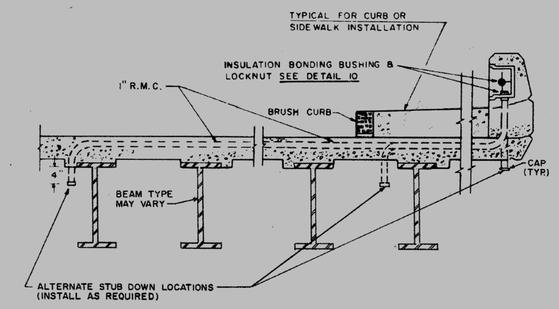


NOTE:
1. UTILIZE 30° BENDS TO FACILIATE CONDUIT LEAVING WINGWALL AT 2'-0" BELOW GRADE.
2. CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF CONDUIT.

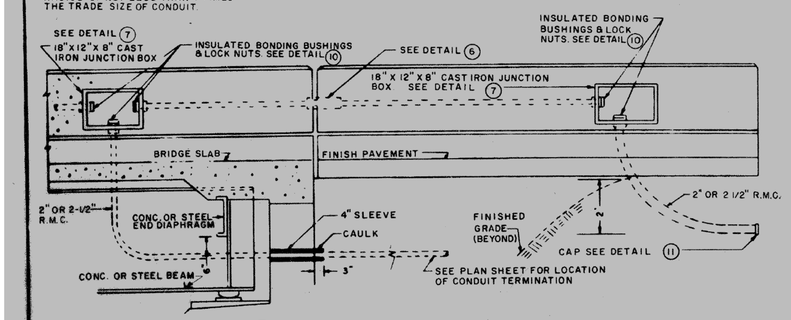
1 CONDUIT PARAPET TO FILL
PLAN SCALE 1/2" = 1'



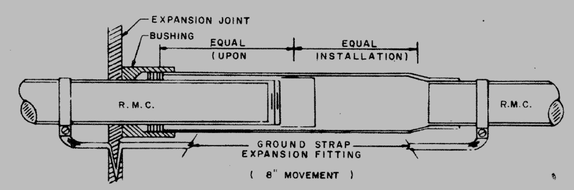
4 CONCRETE INSERT DETAIL



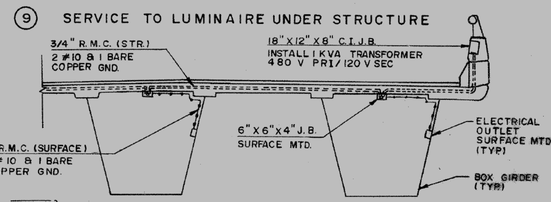
9 SERVICE TO LUMINAIRE UNDER STRUCTURE



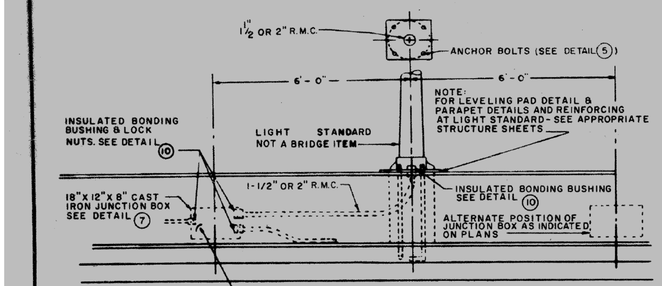
2 CONDUIT PARAPET TO FILL
ELEVATION SCALE 1/2" = 1'



6 DETAIL OF EXPANSION FITTING
USE AT ALL EXPANSION JOINTS

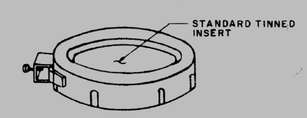


TYPICAL BRIDGE SECTION

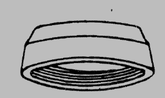


NOTE:
FOR PARAPET AND REINFORCING DETAILS AT JUNCTION BOX. SEE APPROPRIATE STRUCTURE SHEET

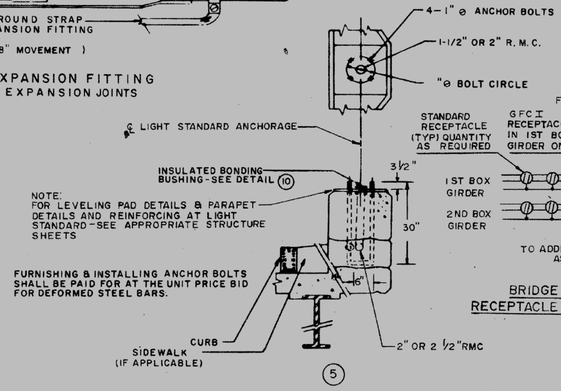
3 LIGHTING STANDARD ON PARAPET WALL



10 CAPPED INSULATED BONDING BUSHING WITH GROUND LUG



11 MALLEABLE IRON CAP



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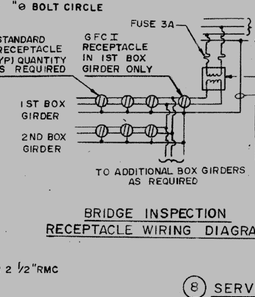
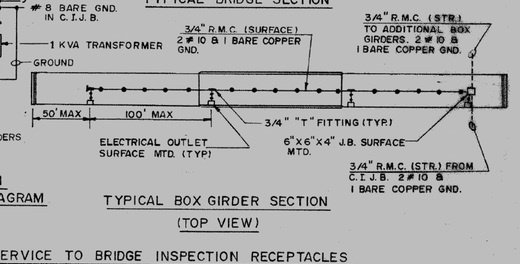


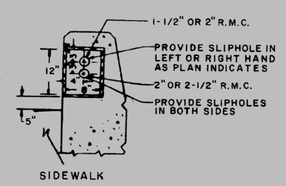
BRIDGE INSPECTION RECEPTACLE WIRING DIAGRAM

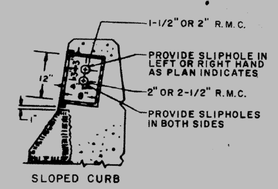


TYPICAL BOX GIRDER SECTION
(TOP VIEW)

8 SERVICE TO BRIDGE INSPECTION RECEPTACLES

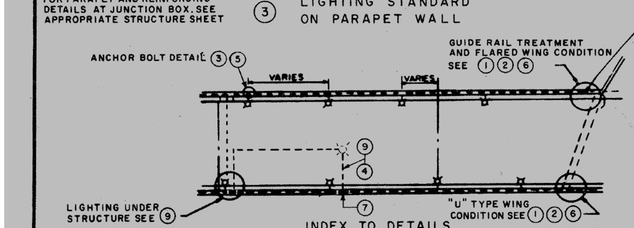
THIS SHEET NOT CORRECTED



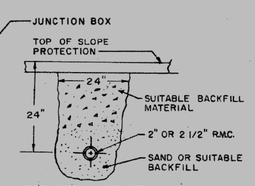


7 JUNCTION BOX INSTALLATION
(USE APPLICABLE DETAIL)

NOTE:
FOR PARAPET AND REINFORCING DETAILS AT JUNCTION BOX, SEE APPROPRIATE STRUCTURE SHEET.



INDEX TO DETAILS



12

* NOTE: FOR DETAILS THAT APPLY ONLY

	DET. NO.	DESCRIPTION
*	1	CONDUIT PARAPET TO FILL
*	2	CONDUIT PARAPET TO FILL
	3	LIGHTING STANDARD ON PARAPET WALL
	4	CONCRETE INSERT
	5	PARAPET TREATMENT AT LIGHT STANDARD
*	6	DETAIL OF EXPANSION FITTING
*	7	JUNCTION BOX INSTALLATION
	8	SERVICE TO BRIDGE INSPECTION RECEPTACLE
	9	SERVICE TO LUMINAIRE UNDER STRUCTURE
*	10	CAPPED INSULATED BONDING BUSHING WITH GROUND LUG
*	11	MALLEABLE IRON CAP
	12	RIGID METAL CONDUIT UNDER SLOPE PROTECTION

ABBREVIATIONS & TERMS

℄ L.S.A.	- ℄ LIGHT STANDARD ANCHORAGE
R.M.C. (S.P.)	- RIGID METAL CONDUIT UNDER SLOPE PROTECTION
R.M.C. STR.	- RIGID METAL CONDUIT IN STRUCTURE
C.I.J.B.	- CAST IRON JUNCTION BOX
℄ U.L.A.	- ℄ UNDERBRIDGE LUMINAIRE ANCHORAGE
R.M.C. (SD)	- RIGID METAL CONDUIT STUB DOWN

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

WESTPORT

MERRITT PARKWAY (ROUTE 15)
OVER
EASTON ROAD (ROUTE 136)

ELECTRICAL DETAILS

SUBMITTED BY [signature] MGR. OF TRAFFIC ELECTRICAL DATE 1-7-4
APPROVED [signature] CHIEF OF TRAFFIC ENGINEERING DATE 5/oct/84

SCALE: NONE

STRUCTURE NO. 158-143-1 | STRUCTURE SHEET 16 OF 16

158-143

460-01

130

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\89_SB_158-211_Brg00731_OrginalDrawings_ElectricalDetails.dgn

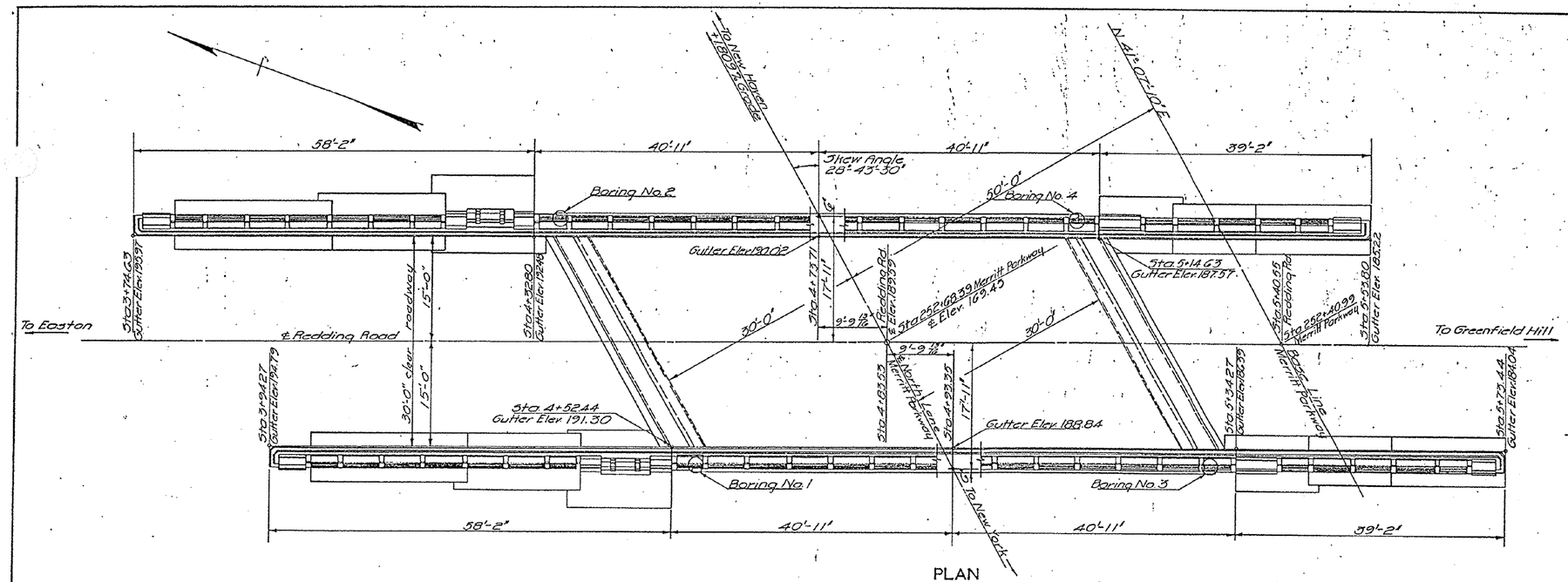
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: [signature]

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00731 EASTON ROAD

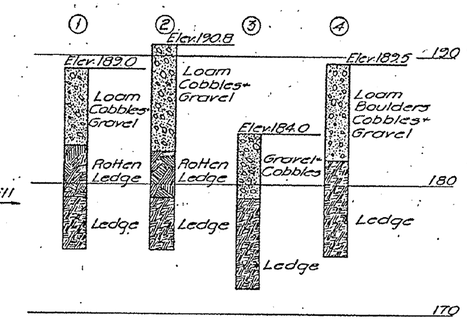
PROJECT NO. 158-211
DRAWING NO. S-60
SHEET NO. 02.02.61

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.						



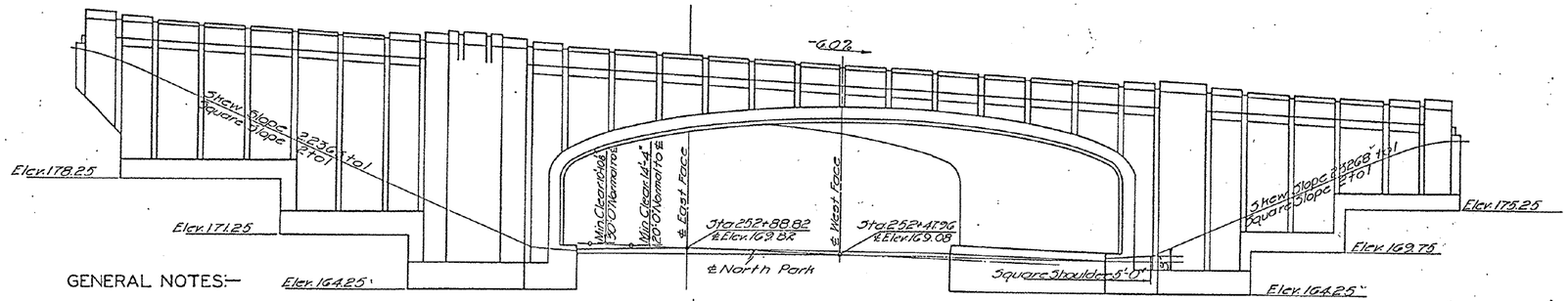
PLAN

BORING DATA



QUANTITIES

Unclassified Excavation	900 C.Y.
Class "A" Concrete	1164 C.Y.
½" Cork or Rubber Exp. Jt. Filler	354 S.F.
Deformed Steel Bars	116,600 Lb.
Waterproof Painting	470 S.Y.
Membrane Waterproofing	314 S.Y.
Concrete Bridge Rail	299 L.F.
Portland Cement	1900 Bbl.



WEST ELEVATION

GENERAL NOTES:—

Designed for H-20 Loading-Conn. State Highway Dept. Specifications.
Class "A" (1:2½:4) Concrete to be used thruout except for Railing.
Class "C" (1:2½:4) Concrete to be used for Concrete Bridge Rail.
Reinforcing Steel to consist of deformed bars of an approved type.
Membrane Waterproofing, with Copper Flashing at curbs, to be placed on frame as shown.
Waterproof Paint to be applied in two coats to back of Frame legs, spandrels, and Wingwalls from gutterline to top of footings.
Backfilling to be kept at approximately the same height at each end of the Frame while being placed and to be thoroughly tamped in layers. Boulders and rocks to be kept out of all fill.
Backfilling to be completed before inside Frame forms are removed.
Unclassified Excavation to include only that required after Roadway Excavation (including side slopes) has been completed.
Construction Joints are to be arranged only as shown on plans, each face of frame being formed in one pour, above footings, so there are no joints in the faces.
Quantities given are approximate only and the Contractor is assumed responsible for checking them in preparing his bid.

APPROVED October 25 1937
J. J. Willis
ENGINEER OF BRIDGE DESIGN
APPROVED Oct. 25 1937
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED 1937
DEPUTY HIGHWAY COMMISSIONER

80736

BRIDGE SHEET 1 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD
MERRITT PARKWAY
UNDER
REDDING ROAD
REINF. CONCRETE RIGID FRAME
GENERAL PLAN

SCALES 1/8" = 1'-0"
MADE BY G.S.B. Tr. E.C.S. DATE 9-28-37
CHECKED BY C. J. H. DATE 10-27-37
APPROVED DATE
PROJECT NO. 180-78-A
SHEET NO. 1 of 13

STANDARD NO.

SPAULDING-MOSS CO., BOSTON AIRKNIGHT TRACING CLOTH 180 78 1

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: 6/3/2016

DESIGNER/DRAFTER: MC
CHECKED BY: JRH/DSG
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

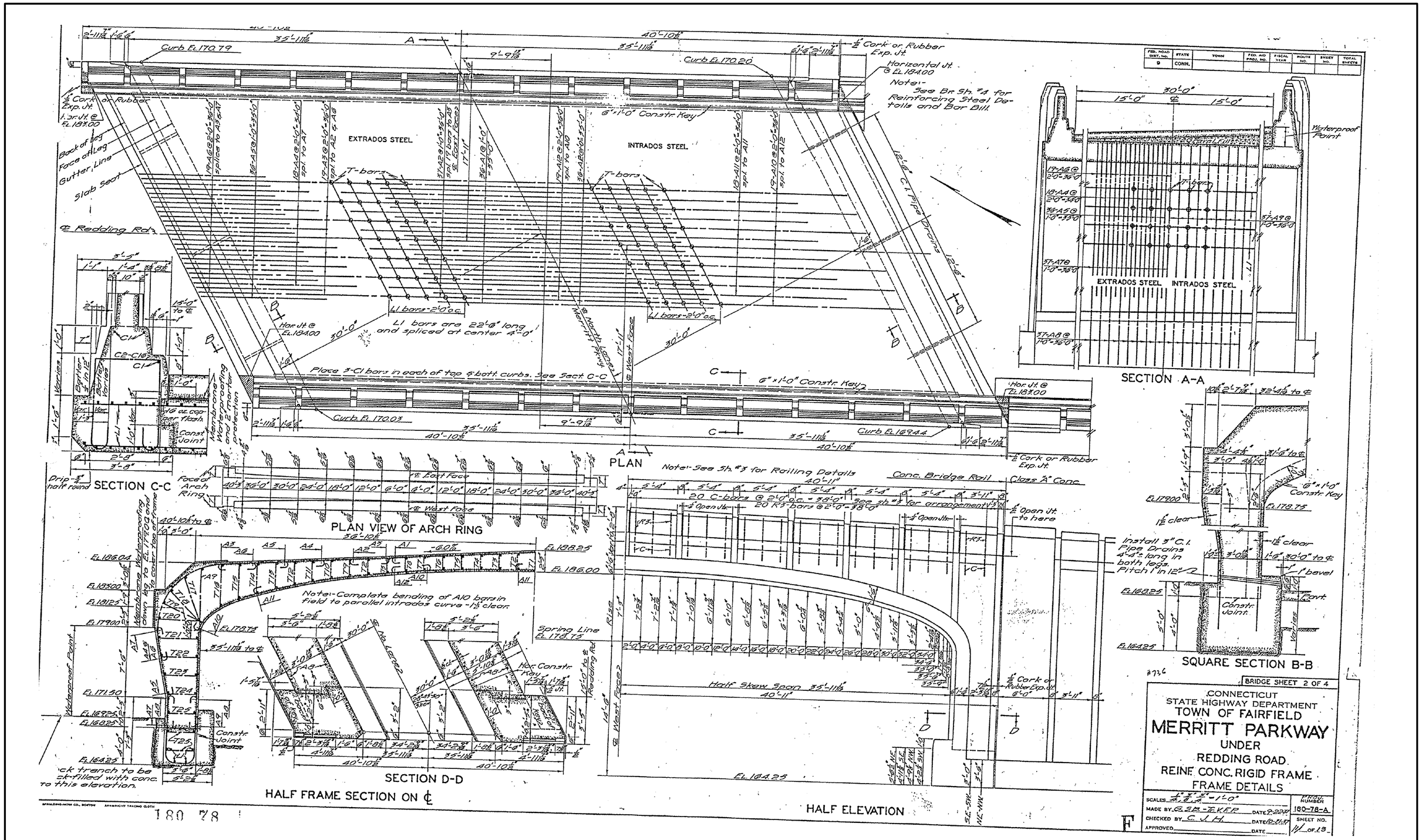
Filename: ...\90_SB_158-211_Brg00732_OriginalDrawings_GeneralPlan.dgn

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

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00732 NORTH AVE

PROJECT NO. 158-211
DRAWING NO. S-61
SHEET NO. 02.02.62



FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.						

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: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\91_SB_158-211_Brg00732_OriginalDrawings_Frame.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Beck

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

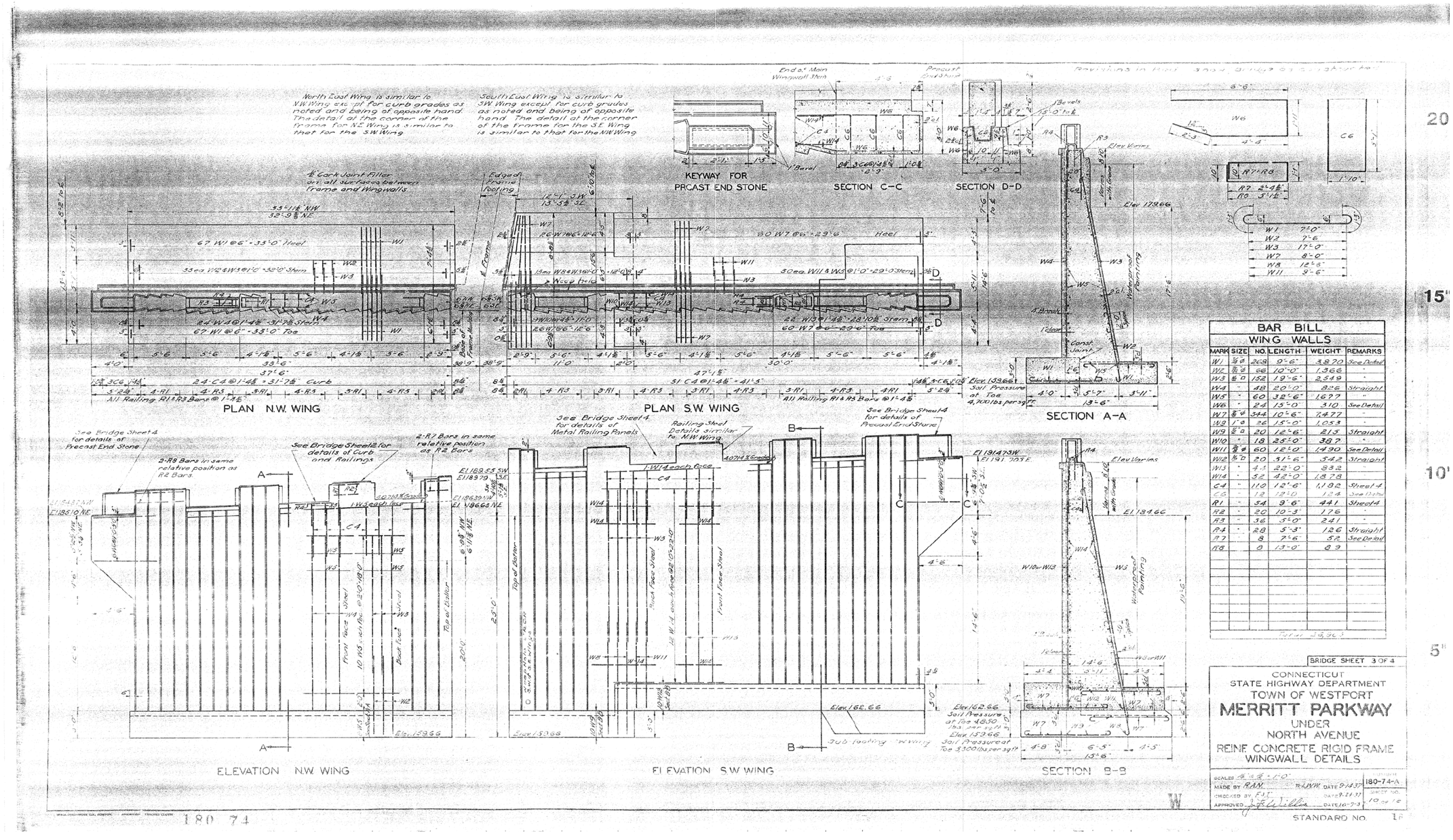
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00732 NORTH AVE

PROJECT NO. 158-211

DRAWING NO. S-62

SHEET NO. 02.02.63



BAR BILL WING WALLS					
MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
W1	7/8" ϕ	268	9'-6"	3,870	See Detail
W2	7/8" ϕ	66	10'-0"	1,366	"
W3	5/8" □	152	19'-6"	2,549	"
W4	"	48	20'-0"	826	Straight
W5	"	60	32'-6"	1,677	"
W6	"	24	15'-0"	310	See Detail
W7	7/8" ϕ	344	10'-6"	7,477	"
W8	1" ϕ	26	15'-0"	1,053	"
W9	1/2" □	20	12'-6"	215	Straight
W10	"	18	25'-0"	387	"
W11	7/8" ϕ	60	12'-0"	1,490	See Detail
W12	1/2" □	20	31'-6"	542	Straight
W13	"	44	22'-0"	832	"
W14	"	52	42'-0"	1,878	"
C4	"	110	12'-6"	1,182	Sheet 4
C6	"	12	12'-0	124	See Detail
R1	"	54	9'-6"	441	Sheet 4
R2	"	20	10'-3"	176	"
R3	"	36	5'-0"	241	"
R4	"	28	5'-3"	126	Straight
R7	"	8	7'-6"	52	See Detail
R8	"	8	13'-0"	89	"

Total 26,963

BRIDGE SHEET 3 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
UNDER
NORTH AVENUE
REINF CONCRETE RIGID FRAME
WINGWALL DETAILS

SCALES 1/4" & 1/2" = 1'-0"
MADE BY R.A.N. W.L.W.W. DATE 9-14-37
CHECKED BY F.J.T. DATE 9-24-37
APPROVED J. F. Willis DATE 10-7-3
NUMBER 180-74-A
SHEET NO. 10 of 16
STANDARD NO. 16

180 74

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: 6/3/2016

DESIGNER/DRAFTER: MC
CHECKED BY: JRH/DSG
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

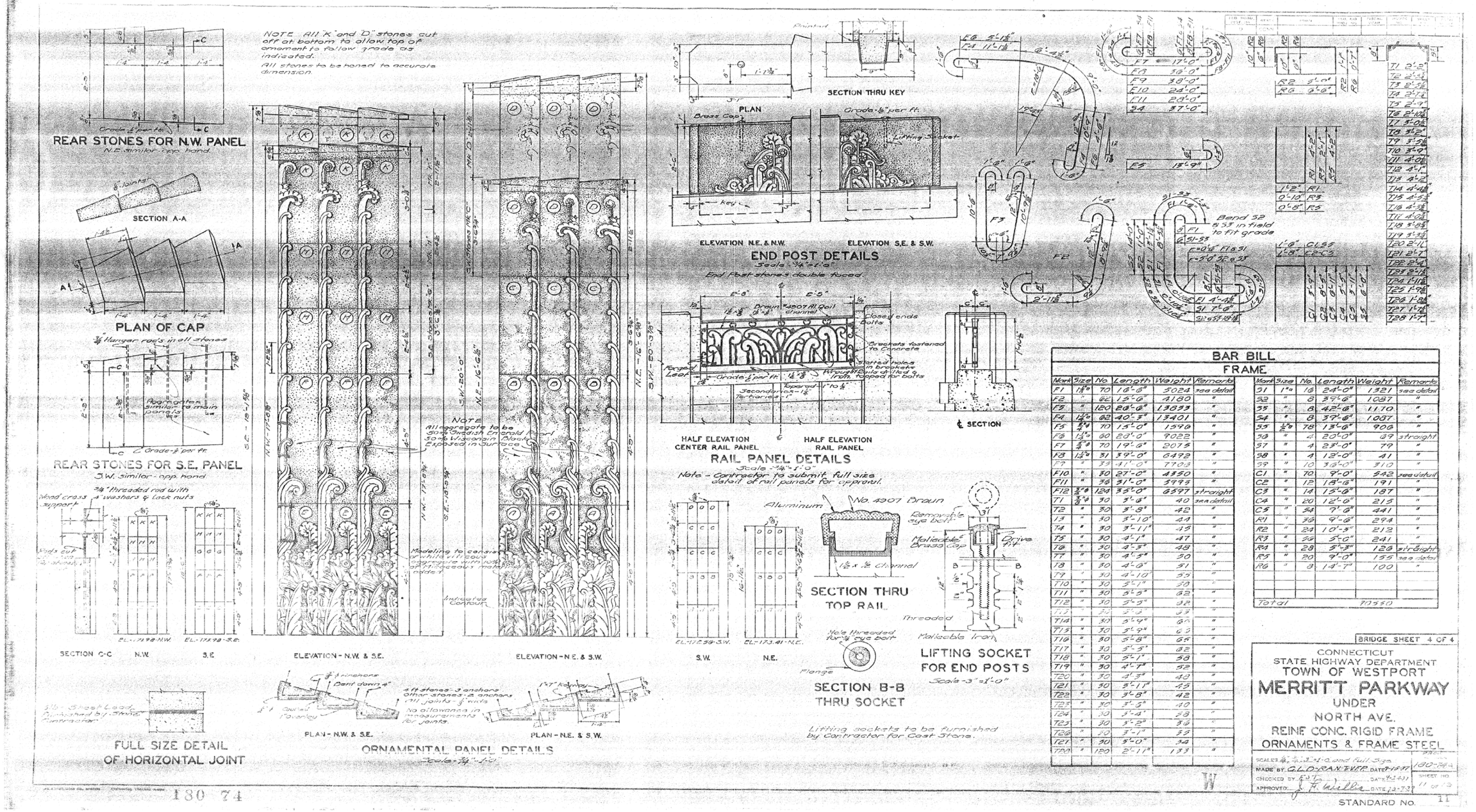
Filename: ...\92_SB_158-211_Brg00732_OriginalDrawings_Wingwalls.dgn

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: EXISTING PLANS BRIDGE NO. 00732 NORTH AVE

PROJECT NO. 158-211
DRAWING NO. S-63
SHEET NO. 02.02.64



Mark	Size	No.	Length	Weight	Remarks
F1	1 1/8" ø	70	16'-8"	5024	see detail
F2	"	62	15'-6"	4180	"
F3	"	120	28'-8"	13833	"
F4	1 1/4" ø	82	40'-3"	13401	"
F5	3/4" ø	70	15'-0"	1590	"
F6	1 1/4" ø	60	23'-0"	9022	"
F7	5/8" ø	70	19'-8"	2075	"
F8	1 1/4" ø	31	39'-0"	6492	"
F9	"	33	41'-0"	7703	"
F10	"	30	27'-0"	4350	"
F11	"	36	31'-0"	5993	"
F12	5/8" ø	124	35'-0"	8597	straight
T1	3/4" ø	30	3'-8"	40	see detail
T2	"	30	3'-8"	42	"
T3	"	30	3'-10"	44	"
T4	"	30	3'-11"	45	"
T5	"	30	4'-1"	47	"
T6	"	30	4'-3"	48	"
T7	"	30	4'-5"	50	"
T8	"	30	4'-8"	51	"
T9	"	30	4'-10"	53	"
T10	"	30	5'-1"	56	"
T11	"	30	5'-3"	58	"
T12	"	30	5'-5"	62	"
T13	"	30	5'-7"	63	"
T14	"	30	5'-9"	65	"
T15	"	30	5'-9"	65	"
T16	"	30	5'-8"	65	"
T17	"	30	5'-5"	62	"
T18	"	30	5'-1"	58	"
T19	"	30	4'-7"	52	"
T20	"	30	4'-3"	48	"
T21	"	30	3'-11"	45	"
T22	"	30	3'-8"	42	"
T23	"	30	3'-5"	40	"
T24	"	30	3'-4"	38	"
T25	"	30	3'-2"	36	"
T26	"	30	3'-1"	35	"
T27	"	30	3'-0"	34	"
T28	"	120	2'-11"	133	"

Mark	Size	No.	Length	Weight	Remarks
S1	1" ø	16	24'-0"	1321	see detail
S2	"	8	39'-6"	1087	"
S3	"	8	42'-6"	1170	"
S4	"	8	39'-6"	1087	"
S5	5/8" ø	78	13'-6"	906	"
S6	"	4	20'-0"	69	straight
S7	"	4	23'-0"	79	"
S8	"	4	12'-0"	41	"
S9	"	10	30'-0"	310	"
C1	"	70	9'-0"	342	see detail
C2	"	12	18'-8"	191	"
C3	"	14	15'-8"	187	"
C4	"	20	12'-0"	215	"
C5	"	34	9'-8"	441	"
R1	"	36	9'-6"	294	"
R2	"	24	10'-3"	212	"
R3	"	36	5'-0"	241	"
R4	"	28	5'-3"	128	straight
R5	"	20	9'-0"	155	see detail
R6	"	8	14'-7"	100	"
Total				70550	

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC
CHECKED BY: JRH/DSG

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\93_SB_158-211_Brg00732_OriginalDrawings_Ornamental.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

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

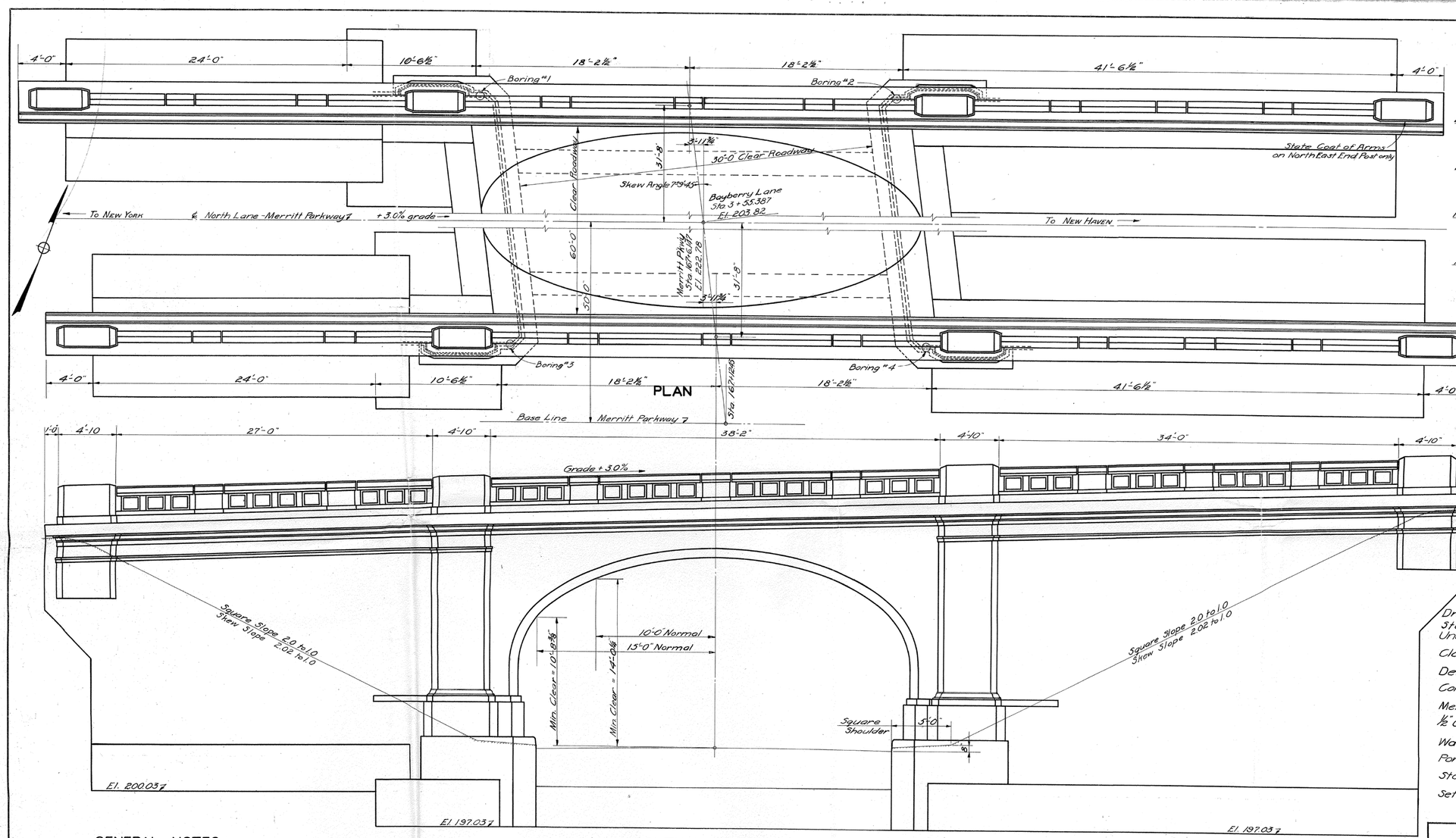
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00732 NORTH AVE

PROJECT NO. 158-211

DRAWING NO. S-64

SHEET NO. 02.02.65



BORING DATA

	① Elev. 203.2	② Elev. 203.6	③ Elev. 203.0	④ Elev. 202.1
200	Road Fill	Loam	Loam Clay Cobbles	Muck
	Sand some Clay Soft	Sand Gravel Clay Some Cobbles Hard	Sand some Clay Soft	Sand some Clay Soft
190	Hardpan	Sand some Clay, Soft Hardpan	Hardpan Hard	
180	Ledge	Ledge	Ledge	Sand, Clay Some Cobbles Hard
170				Ledge

QUANTITIES

Driving Steel Piles	1,614	L.F.
Steel Piles & Caps	64,260	Lbs.
Unclassified Excavation	870	Cu.Yd.
Class "A" (1:2:4) Concrete	1,144	Cu.Yd.
Deformed Steel Bars	99,620	Lbs.
Concrete Bridge Rail	198.5	L.F.
Membrane Waterproofing	320	Sq.Yd.
½" Cork Joint Filler	570	Sq.Ft.
Waterproof Painting	110	Sq.Yd.
Portland Cement	1,832	Bbls.
State Coat of Arms (Furn. by State)	1	Each
Setting State Coat of Arms	1	Each

BRIDGE SHEET NO. 1 OF 4

GENERAL NOTES:

Designed for H-20 loading - Conn. State Highway Department Specifications.
Class "A" (1:2:4) concrete to be used throughout except for Concrete Bridge Rail.
Class "C" (1:2:3) concrete to be used for Bridge Rail.
Reinforcing Steel to consist of deformed bars of an approved type.
Membrane Waterproofing to be placed as shown.
Waterproof Painting to be used on backs of frame legs above footings and on backs of wing walls from gutter line to 2'-0" below slope lines.
Backfilling of arch to be placed in such a manner as to keep the material at an approximate equal height on both sides simultaneously, and shall be thoroughly tamped in layers. Falsework and forms on inside of arch shall not be removed until backfilling is complete to sub-grade.
Unclassified excavation consists of all excavation required after roadway excavation (including side slopes) is assumed complete.
The Quantities are approximate only and do not relieve the contractor from the responsibility of checking them in preparing his bid.

APPROVED August 5 1937
J. F. Willis
ENGINEER OF BRIDGE DESIGN

APPROVED Aug. 5 1937
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED 1937
DEPUTY HIGHWAY COMMISSIONER

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
OVER
BAYBERRY LANE
REINF. CONCRETE RIGID FRAME
GENERAL PLAN 00733

SCALES ¼" = 1'-0"	NUMBER 180-75
MADE BY F.J.T. Tr. L.W.W. DATE 7-31-37	SHEET NO. 35 of 98
CHECKED BY J.H.C. DATE 7-31-37	
APPROVED DATE	

Printed in U.S.A. on Arkwright Tracing Cloth Gustave Fischer Co., Hartford, Conn.

180 56

82 03

STANDARD No. 35

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\94_SB_158-211_Brg00733_OriginalDrawings_General_Plan.dgn

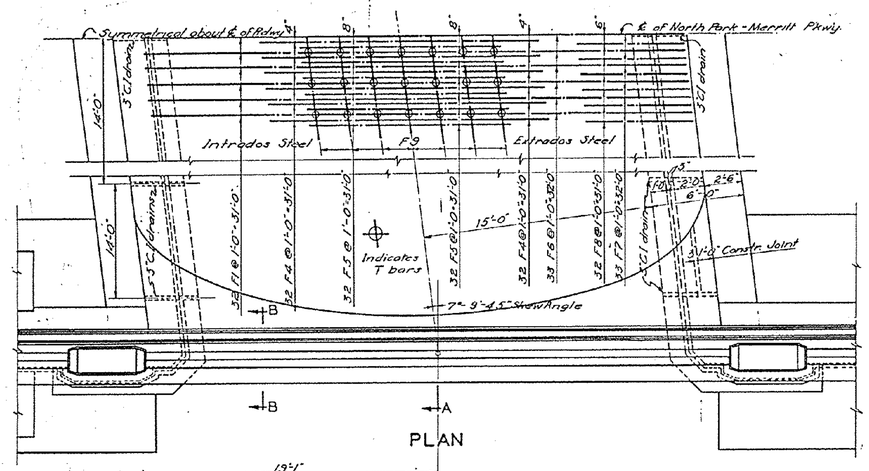
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Beck

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

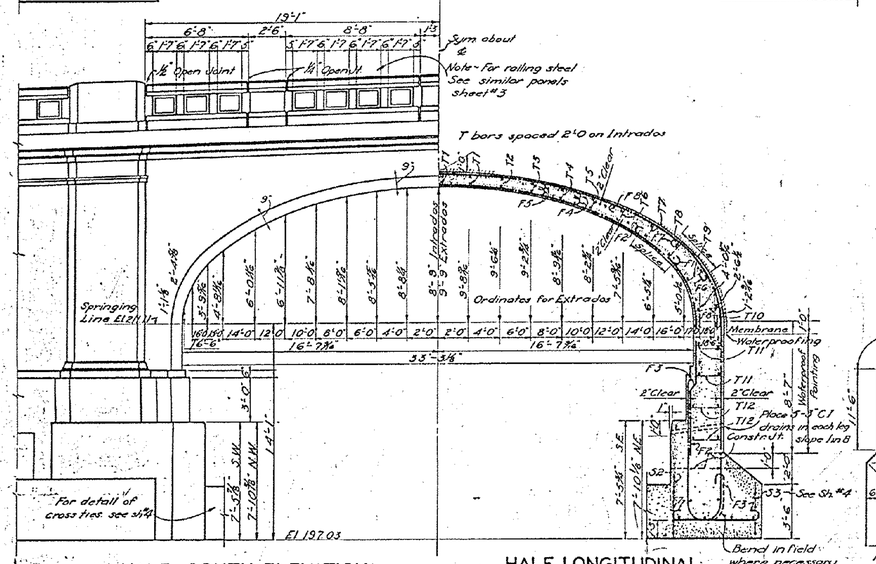
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00733 BAYBERRY LANE

PROJECT NO. 158-211
DRAWING NO. S-65
SHEET NO. 02.02.66

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.					36	98

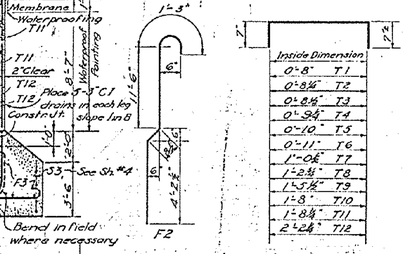


PLAN

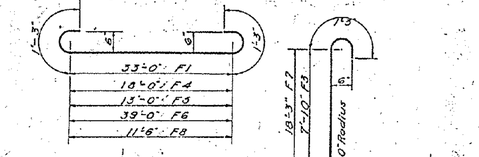


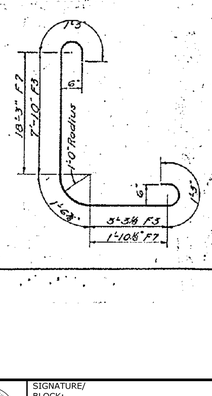
HALF SOUTH ELEVATION

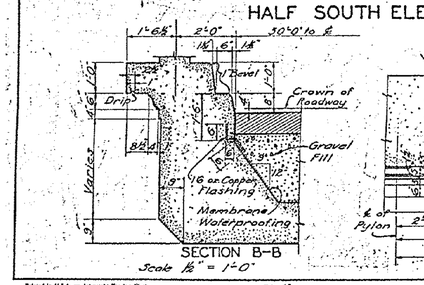
HALF LONGITUDINAL SECTION ON ℄



Inside Dimension	
0'-8"	T1
0'-8½"	T2
0'-8½"	T3
0'-9¾"	T4
0'-10"	T5
0'-11"	T6
1'-0¾"	T7
1'-2¾"	T8
1'-5¾"	T9
1'-8"	T10
1'-8½"	T11
2'-2¾"	T12

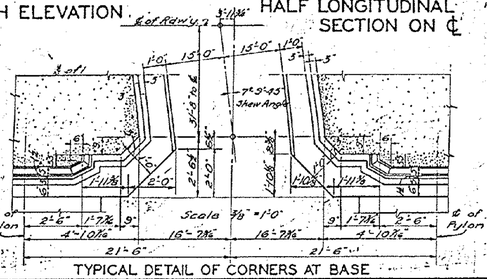




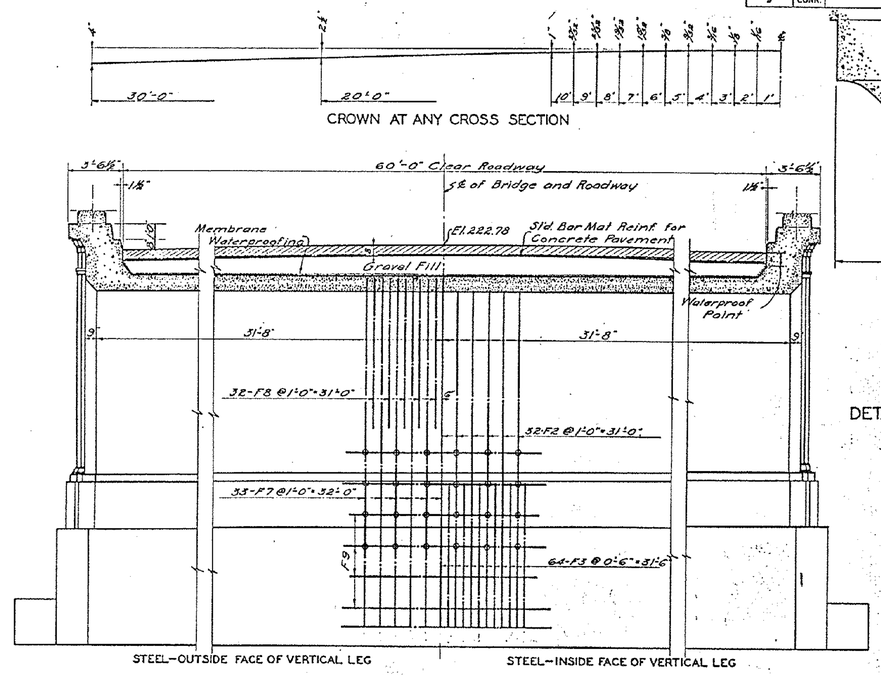


SECTION B-B

Scale ½" = 1'-0"

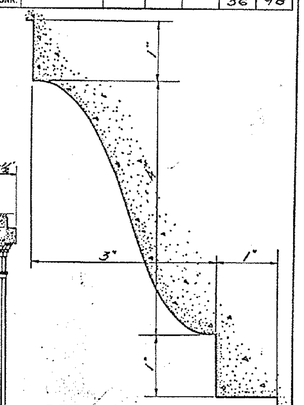


TYPICAL DETAIL OF CORNERS AT BASE



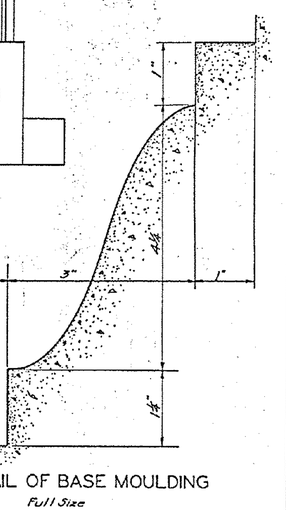
SECTION A-A

CROWN AT ANY CROSS SECTION



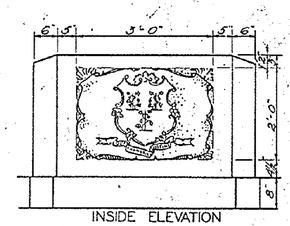
DETAIL OF TOP MOULDING

Full Size



DETAIL OF BASE MOULDING

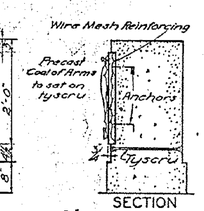
Full Size



INSIDE ELEVATION

NORTH EAST END POST

Scale ¾" = 1'-0"



SECTION

BAR BILL

FRAME

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
F1	1" ⊕	63	35'-6"	6,033	See Detail
F2	"	126	17'-8"	6,010	" "
F3	"	254	15'-2"	10,401	" "
F4	"	128	20'-6"	7,085	" "
F5	"	128	15'-6"	5,357	" "
F6	"	65	41'-6"	7,283	" "
F7	"	130	24'-2"	8,483	" "
F8	"	128	14'-0"	4,038	" "
F9	¾" ⊕	148	33'-9"	7,392	Straight
T1	⅝" ⊕	96	1'-10"	67	See Detail
T2	"	64	1'-10"	45	" "
T3	"	64	1'-11"	47	" "

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
T4	⅝" ⊕	64	1'-11"	47	See Detail
T5	"	64	2'-0"	49	" "
T6	"	64	2'-1"	51	" "
T7	"	64	2'-3"	55	" "
T8	"	64	2'-5"	59	" "
T9	"	64	2'-8"	65	" "
T10	"	64	2'-10"	69	" "
T11	"	128	2'-10"	138	" "
T12	"	128	3'-9"	162	" "
Total				63942	

BRIDGE SHEET NO. 2 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT

MERRITT PARKWAY

OVER
BAYBERRY LANE
REINF. CONCRETE RIGID FRAME
FRAME DETAILS

SCALES ½" = 1'-0"

MADE BY F.J.T. To L.W.W. DATE 7-31-37

CHECKED BY J.W.C. DATE 7-31-37

APPROVED J.H. Dillis DATE 8-5-37

NUMBER 180-75

SHEET NO. ___ OF ___

STANDARD No. 36

180 56 1

82 05

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: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\95_SB_158-211_Brg00733_OriginalDrawings_Frame.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Beck

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

TOWN: WESTPORT/FAIRFIELD

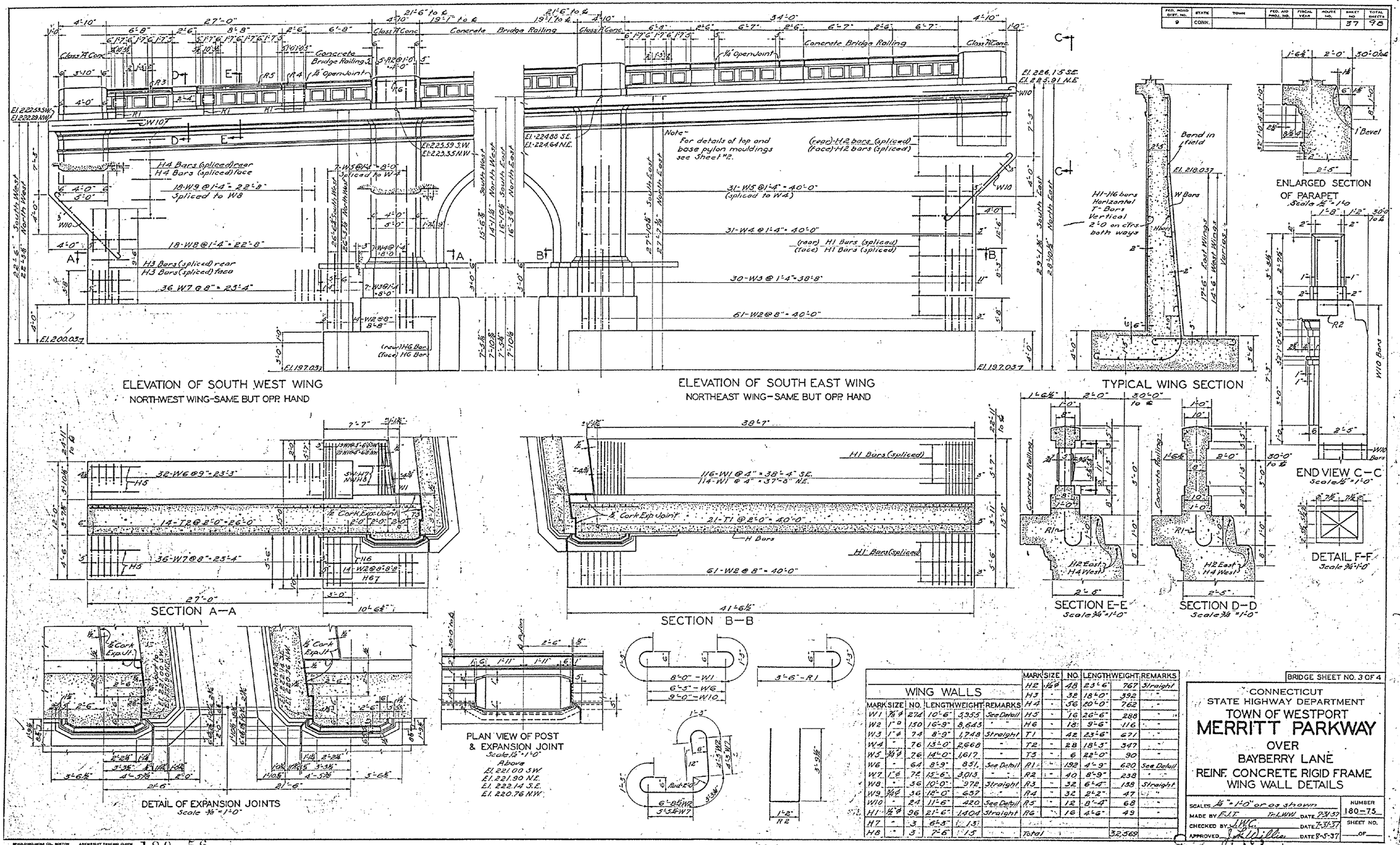
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00733 BAYBERRY LANE

PROJECT NO. 158-211

DRAWING NO. S-66

SHEET NO. 02.02.67

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.					37	98



WING WALLS					
MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
W1	1/2"ø	274	10'-6"	3,355	See Detail
W2	1"ø	150	16'-9"	8,643	" "
W3	1"ø	74	8'-9"	1,748	Straight
W4	"	76	13'-0"	2,668	"
W5	3/4"ø	76	14'-0"	1,617	"
W6	"	64	8'-9"	851	See Detail
W7	1"ø	72	13'-6"	3,013	" "
W8	"	36	10'-0"	972	Straight
W9	3/4"ø	36	12'-0"	637	" "
W10	"	24	11'-6"	420	See Detail
H1	1/2"ø	96	21'-6"	1,404	Straight
H7	"	3	6'-3"	13	" "
H8	"	3	7'-6"	15	" "

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
H2	1/2"ø	48	23'-6"	767	Straight
H3	"	36	18'-0"	392	"
H4	"	56	20'-0"	762	"
H5	"	16	26'-6"	288	"
H6	"	18	9'-6"	116	"
T1	"	42	23'-6"	671	"
T2	"	28	18'-3"	347	"
T3	"	6	22'-0"	90	"
R1	"	192	4'-9"	620	See Detail
R2	"	40	8'-9"	238	" "
R3	"	32	6'-4"	138	Straight
R4	"	32	2'-2"	47	"
R5	"	12	8'-4"	68	"
R6	"	16	4'-6"	49	"
Total				32,569	

BRIDGE SHEET NO. 3 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT

MERRITT PARKWAY

OVER
BAYBERRY LANE
REINF. CONCRETE RIGID FRAME
WING WALL DETAILS

SCALES 1/4"=1'-0" or as shown
MADE BY F.J.T. T-L.W.W. DATE 7-31-37
CHECKED BY J.W.C. DATE 7-31-37
APPROVED J.H. Wilder DATE 8-5-37
NUMBER 180-75
SHEET NO. ___ OF ___

STANDARD No. 37

180 56

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\96_SB_158-211_Brg00733_OriginalDrawings_Wingwalls.dgn

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

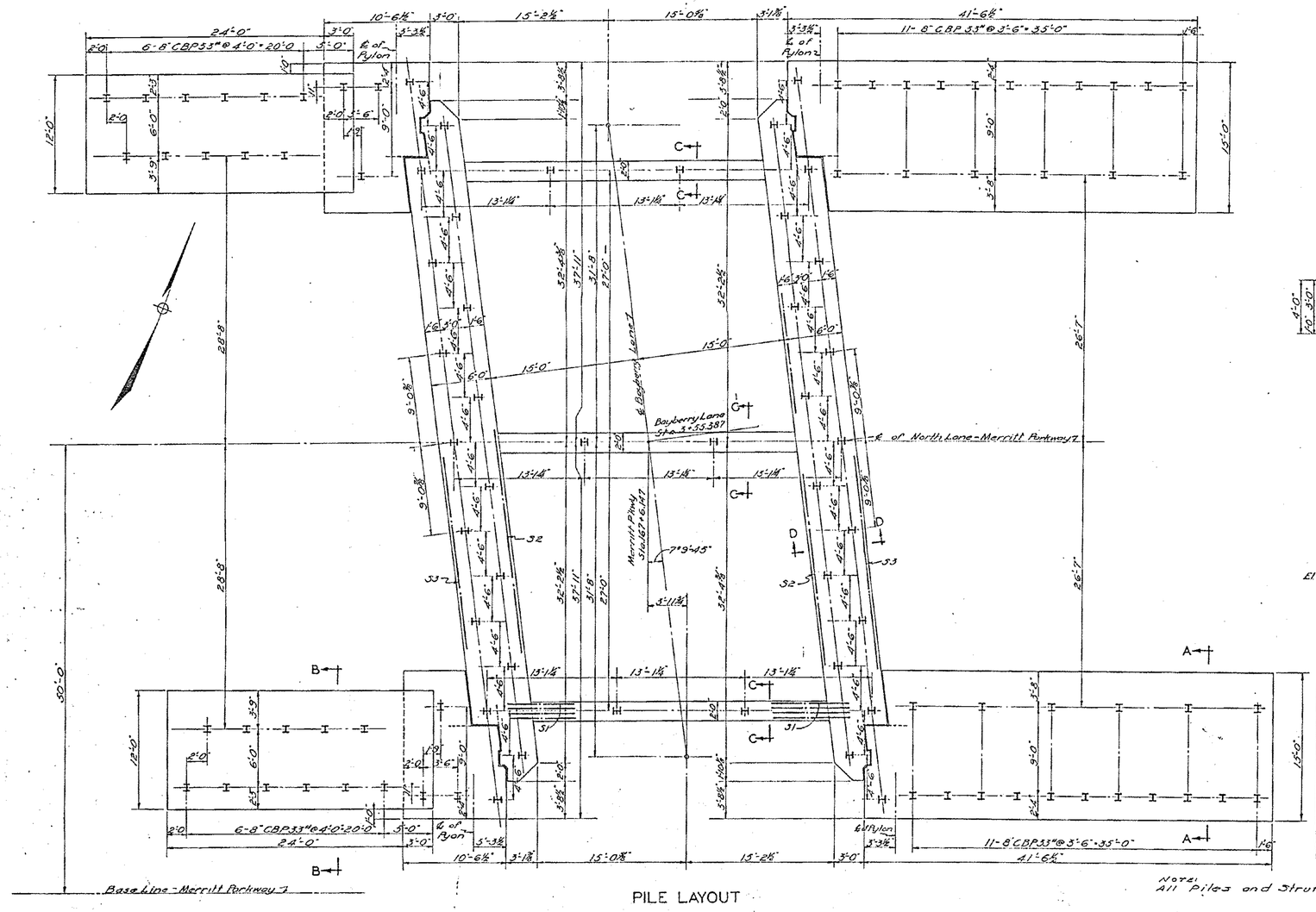
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00733 BAYBERRY LANE

PROJECT NO. 158-211
DRAWING NO. S-67
SHEET NO. 02.02.68

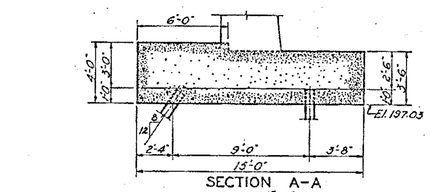
FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.					38	98

Revisions shown in Red.

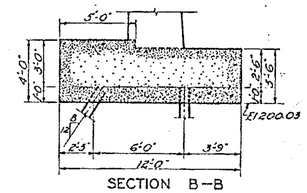


PILE LAYOUT

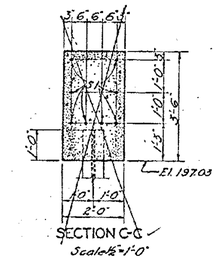
Note: All Piles and Struts Omitted.



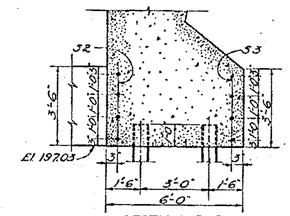
SECTION A-A
Scale 1/4" = 1'-0"



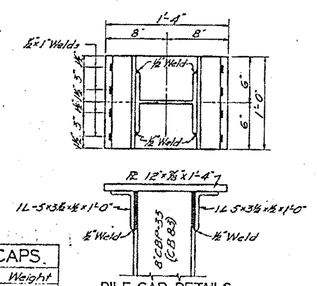
SECTION B-B
Scale 1/4" = 1'-0"



SECTION C-C
Scale 1/2" = 1'-0"



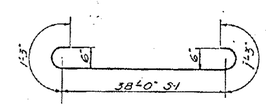
SECTION D-D
Scale 3/8" = 1'-0"



PILE CAP DETAILS
Scale 1 1/2" = 1'-0"

STEEL PILES (8 CB 33) & CAPS.

Location	Type	No.	Pwr. Lgth	Weight
West Wings	Vertical	10	18'-0"	5,940
" "	Batter	12	21'-6"	8,514
West Pylons	Vertical	2	15'-0"	990
" "	Batter	4	18'-0"	2,376
East Wings & Pylons	Vertical	12	15'-0"	5,940
" "	Batter	22	18'-0"	13,068
Frame & Cross Ties	Vertical	40	15'-0"	19,800
Pile Caps - Bl	5 x 3 1/2 x 1/2 x 1'-0"	204		2,774
" " - Pl.	12 x 7/8 x 1'-4"	102		4,855
Total				64,257



BAR BILL
CROSS TIES

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
S1	7/8" ø	24	40'-6"	2,012	See Detail
S2	5/8" ø	16	34'-0"	577	Straight
S3	"	16	30'-6"	517	"
Total				3,106	

BRIDGE SHEET NO. 4 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF WESTPORT
MERRITT PARKWAY
OVER
BAYBERRY LANE
REINF. CONCRETE RIGID FRAME
PILE DIAGRAM

SCALES 3/16" = 1'-0" unless noted
MADE BY F.J.T. Tr. L.W.H. DATE 7-25-37
CHECKED BY J.W.C. DATE 7-31-37
APPROVED J. F. Willis DATE 8-5-37
NUMBER 180-75
SHEET NO. ___ OF ___

180 56

82 03

STANDARD No. 38

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\97_SB_158-211_Brg00733_OriginalDrawings_Piles.dgn

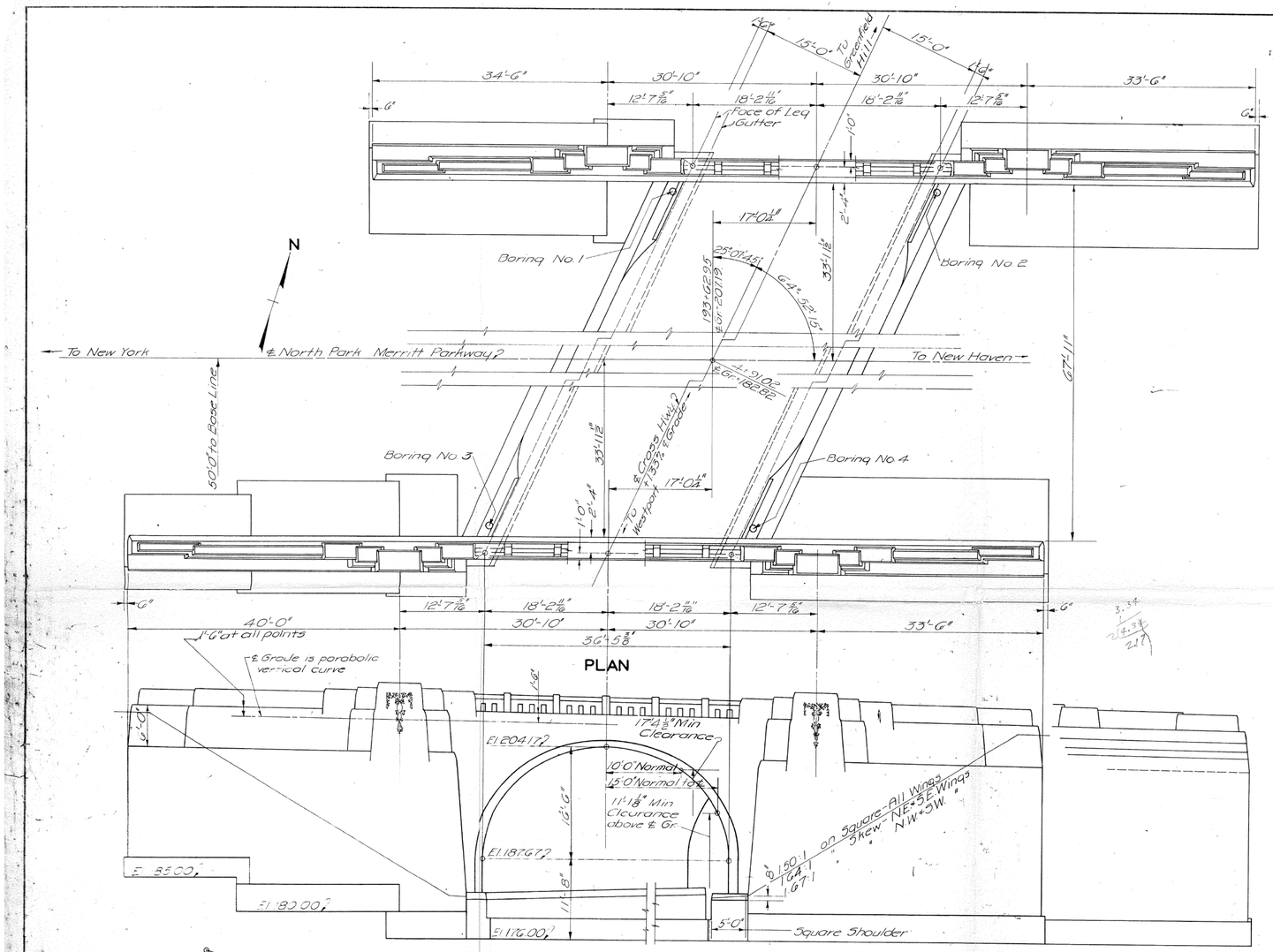
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Baker

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

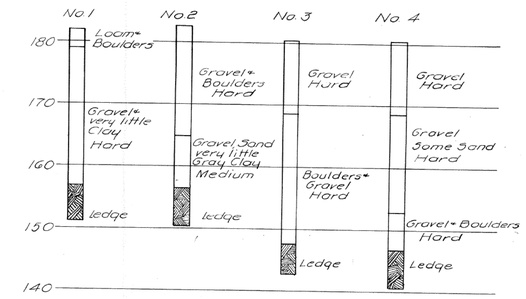
TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00733 BAYBERRY LANE

PROJECT NO. 158-211
DRAWING NO. S-68
SHEET NO. 02.02.69

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.					10	13



BORING DATA



GENERAL NOTES:—

Designed for H-20 Loadings - Conn. State Highway Dept. Specifications.

All excavation to be unclassified.

Class "A" Concrete (1:2½:4) to be used throughout except for Concrete Bridge Rail.

Class "C" Concrete (1:2½:4) to be used for Concrete Bridge Rail.

Reinforcing steel bars to consist of deformed bars of an approved type.

Waterproof paint to be applied in two coats as shown on plans.

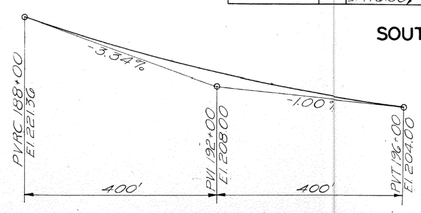
Ornamentation to be formed by use of waste moulds.

Backfilling to be kept at approximately the same height at each end of frame while being placed, thoroughly tamped in layers, and completed before inside frame forms are removed. Boulders and rocks to be kept out of fill.

The quantities given are approximate only and the contractor is assumed responsible for checking them in preparing his bid.

Crushed stone and tile for drainage of arch and cast iron pipe for weep holes to be included in the general cost of the contract.

Br. No. 734



PARABOLIC VERTICAL CURVE OF ℄ GRADE
MERRITT PARKWAY

QUANTITIES

Unclassified Excavation	1020 C.Y.	187.67
Class "A" Concrete	1820 C.Y.	17.25
½" Cork or Rubber Exp. Jt. Filler	680 S.F.	207.19
Deformed Steel Bars	108,500 LBS.	205.42
Waterproof Painting	610 S.Y.	1.77
Membrane Waterproofing	340 S.Y.	
Concrete Bridge Rail	169 L.F.	
Portland Cement	2636 Bbls.	
Ornament Moulds	4 EACH	

APPROVED Dec. 11 1937
J. F. Willis
ENGINEER OF BRIDGE DESIGN

APPROVED Dec. 17 1937
R. A. Dunn
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED _____ 1937
DEPUTY HIGHWAY COMMISSIONER

Revised 4-8-38 L.D.W.
BRIDGE SHEET 1 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
OVER
CROSS HIGHWAY
REINF. CONC. RIGID FRAME
GENERAL PLAN

SCALES 1/8" = 1'-0"
MADE BY L.D.W. Tr. E.C.S. DATE 10-1937
CHECKED BY J.W.C. DATE 11-1937
APPROVED _____ DATE _____
W.O. NO. 180-78-A
SHEET NO. _____ OF _____
STANDARD NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\98_SB_158-211_Brg00734_OriginalDrawings_General Plan.dgn

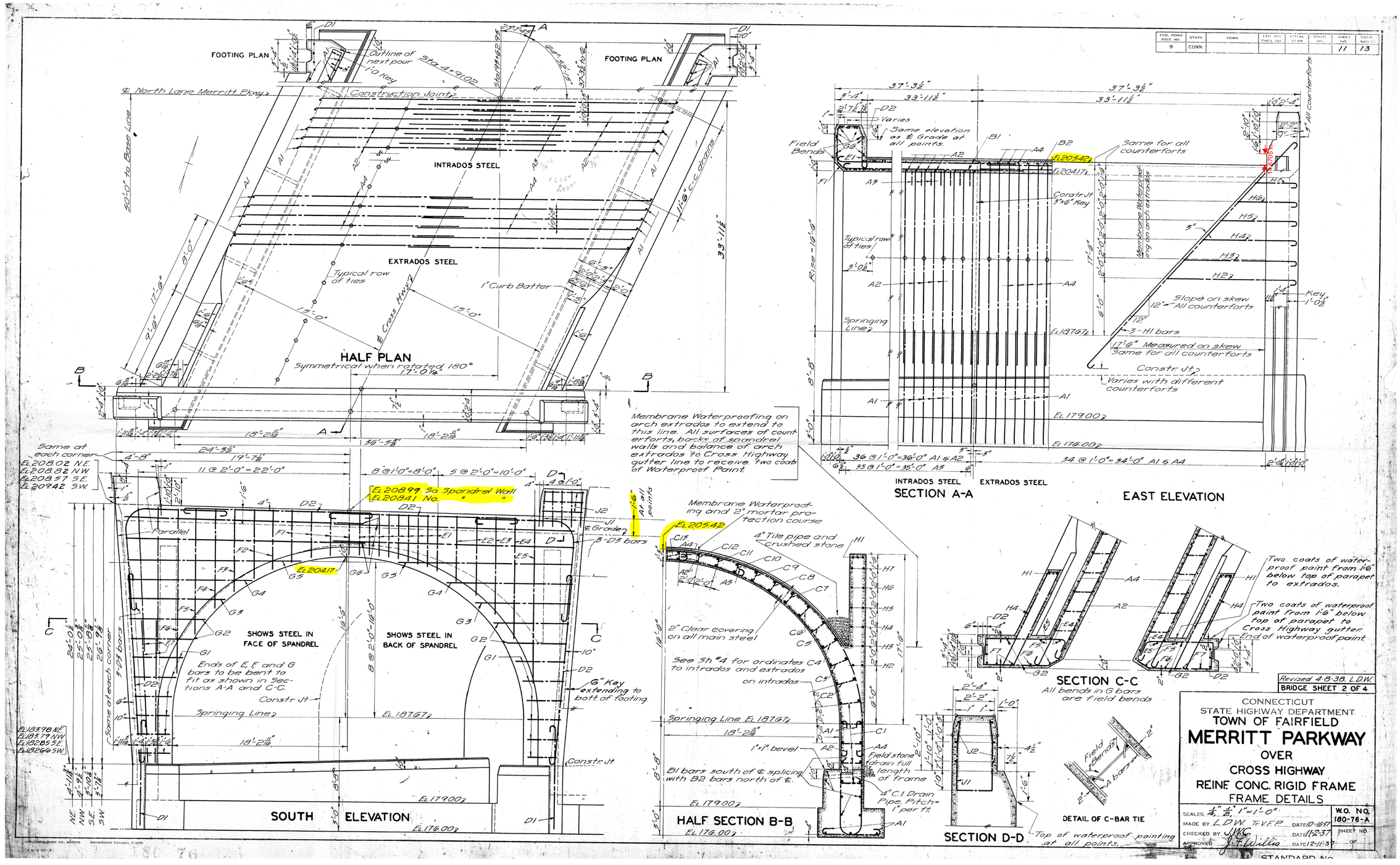
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Beck

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00734 CROSS HIGHWAY

PROJECT NO. 158-211
DRAWING NO. S-69
SHEET NO. 02.02.70

FED. ROAD DIST. No.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.					11	13



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

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Plotted Date: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\99_SB_158-211_Brg00734_OriginalDrawings_Frame.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mary E. Beck

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

TOWN: WESTPORT/FAIRFIELD

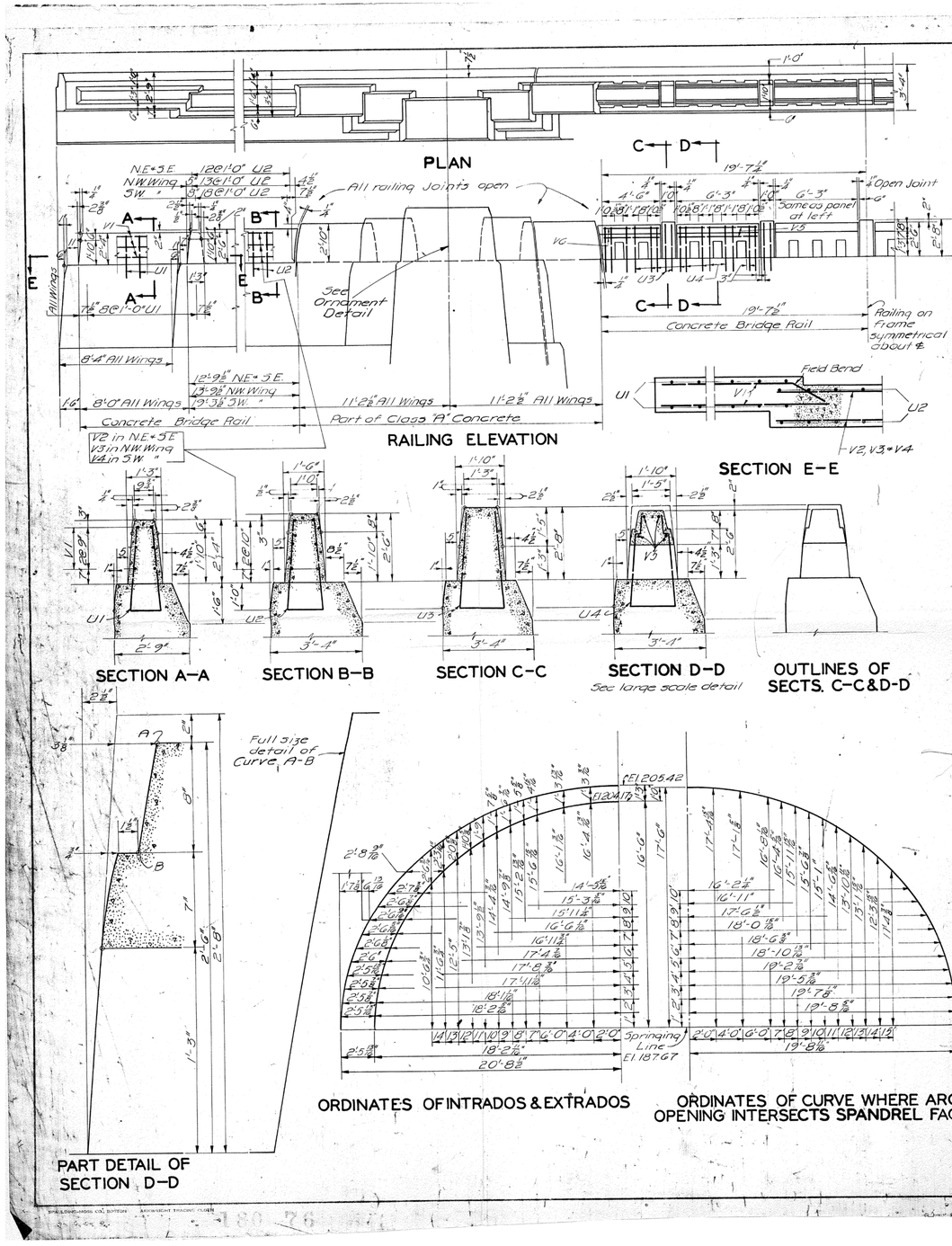
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00734 CROSS HIGHWAY

PROJECT NO. 158-211

DRAWING NO. S-70

SHEET NO. 02.02.71

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.					13	13

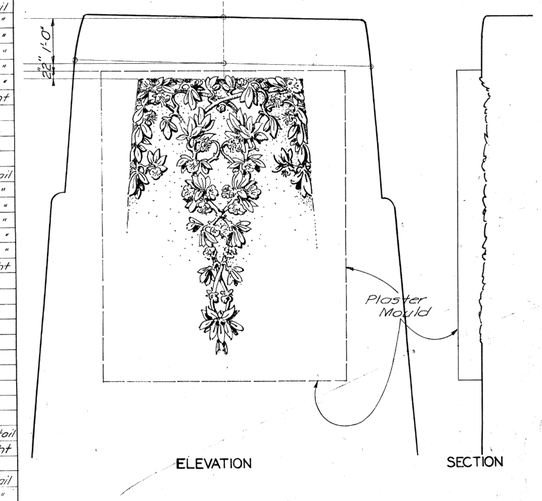


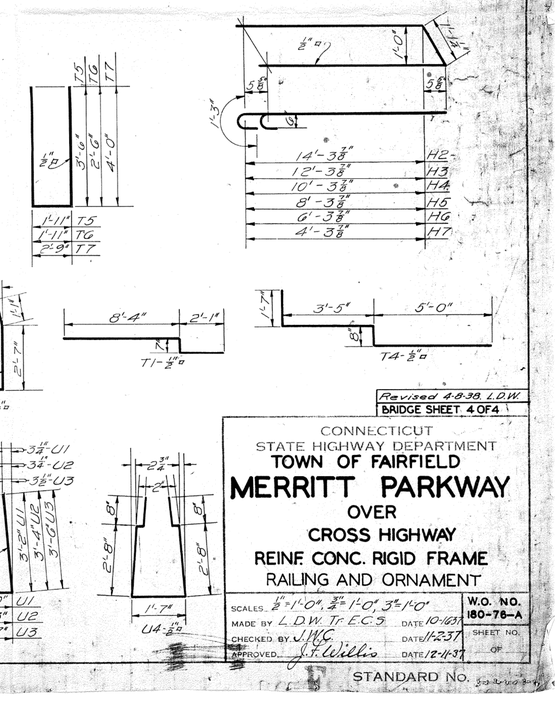
BAR BILL FOR ENTIRE STRUCTURE

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
A1	3/4" ϕ	288	17'-0"	7442	See Detail
A2	"	148	35'-0"	7874	" "
A3	"	72	18'-6"	2025	" "
A4	"	140	37'-6"	7980	" "
B1	5/8" ϕ	88	46'-4"	4229	" "
B2	"	88	40'-10"	3809	" "
C1	5/8" ϕ	340	3'-4"	431	" "
C2	"	68	3'-3"	84	" "
C3	"	68	3'-2"	82	" "
C4	"	68	3'-0"	78	" "
C5	"	68	2'-11"	75	" "
C6	"	68	2'-9"	71	" "
C7	"	68	2'-7"	67	" "
C8	"	68	2'-6"	65	" "
C9	"	68	2'-4"	60	" "
C10	"	68	2'-3"	58	" "
C11	"	68	2'-2"	56	" "
C12	"	68	2'-2"	56	" "
C13	"	102	2'-1"	81	" "
D1	3/4" ϕ	12	11'-3"	205	" "
D2	"	24	21'-6"	784	" "
D3	"	12	21'-3"	395	" "
E1	5/8" □	34	7'-3"	212	" "
E2	"	8	9'-9"	67	" "
E3	"	4	11'-9"	40	" "
E4	"	4	14'-3"	49	" "
E5	"	4	19'-0"	65	" "
F1	"	14	6'-0"	72	Straight
F2	"	8	8'-0"	55	"
F3	"	4	9'-6"	33	"
F4	"	4	11'-6"	40	"
F5	"	4	14'-0"	48	"
F6	"	4	18'-0"	62	"
F7	"	16	14'-9"	203	"
G1	"	48	7'-6"	310	"
G2	"	16	10'-6"	144	"
G3	"	8	12'-6"	86	"
G4	"	8	15'-6"	107	"
G5	"	8	20'-6"	141	"
G6	"	16	25'-0"	344	"
H1	1 1/8" □	12	35'-6"	1853	See Detail
H2	5/8" □	4	32'-3"	111	" "
H3	"	4	28'-3"	97	" "
H4	"	4	24'-3"	83	" "
H5	"	4	20'-3"	70	" "
H6	"	4	16'-3"	56	" "
H7	"	4	12'-3"	42	" "
J1	"	20	9'-3"	159	" "
J2	"	24	4'-4"	89	Straight

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
M1	3/4" ϕ	220	11'-0"	3678	See Detail
M2	3/4" ϕ	101	10'-6"	1124	" "
M3	3/8" □	32	10'-0"	275	" "
L1	1 1/8" □	202	72'-0"	14938	" "
L2	"	116	16'-0"	8074	" "
L3	1" □	36	13'-6"	1672	" "
N1	5/8" □	32	22'-9"	626	Straight
N2	"	16	10'-0"	138	"
N3	"	8	34'-6	237	"
M4	"	8	23'-6"	162	"
M5	"	8	18'-3"	126	"
N1	1 1/8" □	198	10'-6"	9044	See Detail
N2	1" ϕ	112	8'-6"	2570	" "
N3	"	18	11'-0"	535	" "
O1	1" ϕ	194	16'-0"	8381	" "
O2	"	57	12'-3"	1885	" "
P1	3/4" ϕ	169	19'-3"	3448	" "
Q1	5/8" □	112	21'-6"	2071	Straight
Q2	"	8	8'-0"	55	"
Q3	"	48	22'-0"	908	"
Q4	"	4	29'-6"	101	"
Q5	"	40	25'-0"	660	"
R1	"	108	12'-6"	1161	"
R2	"	58	10'-3"	556	"
R3	"	18	9'-0"	139	"
S1	"	87	7'-0"	524	"
S2	"	28	12'-0"	289	"
S3	"	132	6'-0"	681	"
T1	"	16	11'-0"	151	See Detail
T2	"	12	19'-0"	196	Straight
T3	"	4	24'-6	84	"
T4	"	32	10'-8"	294	See Detail
T5	"	24	8'-11"	184	" "
T6	"	48	6'-11"	286	" "
T7	"	32	10'-9"	296	" "
U1	"	36	7'-4"	227	" "
U2	"	59	7'-11"	402	" "
U3	"	20	8'-7"	148	" "
U4	"	88	8'-7"	650	" "
V1	"	24	10'-0"	206	Straight
V2	"	12	12'-5"	128	"
V3	"	6	13'-5"	69	"
V4	"	6	18'-11"	98	"
V5	"	32	6'-0"	165	"
V6	"	16	4'-4"	60	"

Total Weight 108,527#





Revised 4-8-38 L.D.W.
BRIDGE SHEET 4 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
OVER
CROSS HIGHWAY
REINF. CONC. RIGID FRAME
RAILING AND ORNAMENT

SCALES 1/2"=1'-0", 3/4"=1'-0", 3"=1'-0"
MADE BY L.D.W. Tr. E.C.S. DATE 10-16-37
CHECKED BY J.H.G. DATE 11-23-37
APPROVED J.F. Willis DATE 12-11-37
W.O. NO. 180-76-A
SHEET NO. OF
STANDARD NO.

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: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\100_SB_158-211_Brg00734_OriginalDrawings_Railing.dgn

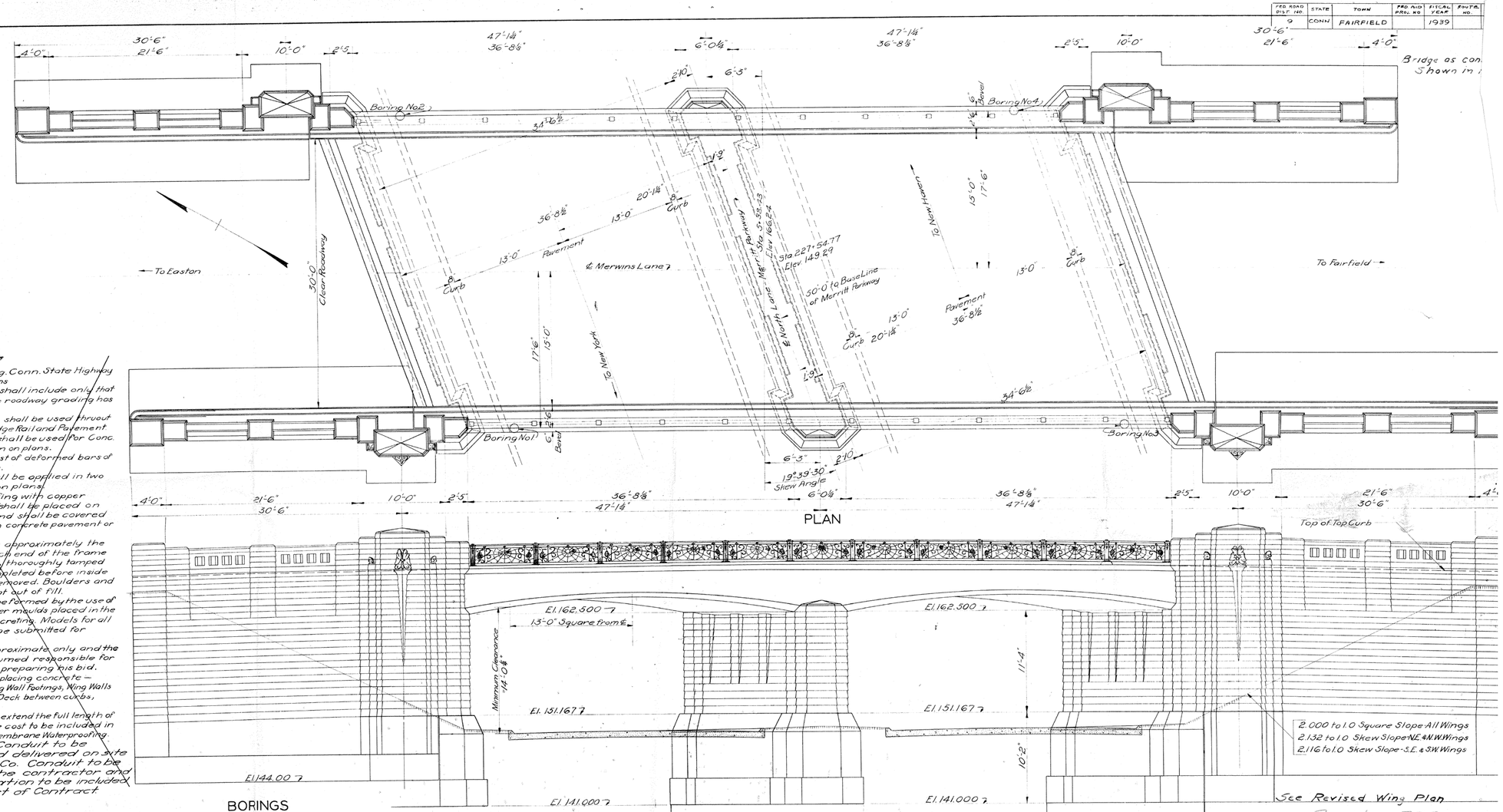
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00734 CROSS HIGHWAY

PROJECT NO. 158-211
DRAWING NO. S-71
SHEET NO. 02.02.72

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.
9	CONN.	FAIRFIELD		1939	



GENERAL NOTES

Designed for H-20 loading. Conn. State Highway Dept. Specifications

Bridge Excavation shall include only that required after the roadway grading has been completed.

Class "A" Concrete shall be used thruout except for Conc. Bridge Rail and Pavement

Class "C" Concrete shall be used for Conc. Bridge Rail as shown on plans.

Reinforcing Steel to consist of deformed bars of an approved type.

Waterproof Painting shall be applied in two coats as shown on plans.

Membrane Waterproofing with copper flashing at curbs shall be placed on frame as shown and shall be covered within 24 hours with concrete pavement or as shown.

Backfilling to be kept at approximately the same height at each end of the frame while being placed, thoroughly tamped in layers, and completed before inside frame forms are removed. Boulders and rocks shall be kept out of fill.

Pylon ornament shall be formed by the use of reverse waste plaster moulds placed in the forms prior to concreting. Models for all ornaments shall be submitted for approval.

The Quantities are approximate only and the Contractor is assumed responsible for checking them in preparing his bid.

Recommended order of placing concrete — Frame footings, Wing Wall Footings, Wing Walls, Frame Legs, Frame Deck between curbs, Frame Face

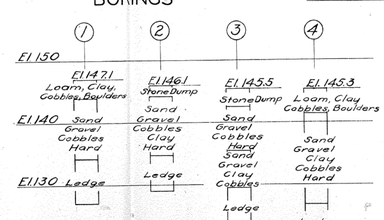
16 oz. copper flashing to extend the full length of both curbs and the cost to be included in the price bid for Membrane Waterproofing.

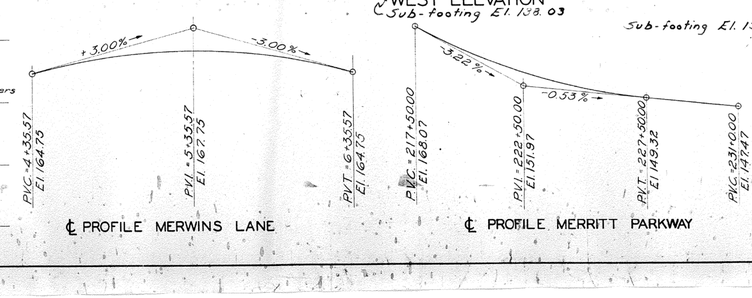
Metal Telephone Conduit to be furnished and delivered on site by the S.N.E.T. Co. Conduit to be installed by the contractor and cost of installation to be included in general cost of Contract.

QUANTITIES

Excavation	600	C.Y.
Pavement	64	S.Y.
Inf. for Concrete Pavement	284	S.Y.
Exp. Joint	426	L.F.
Concrete	1,320	C.Y.
Fiber Exp. Joint Filler	600	S.F.
Steel Bars	102280	Lbs.
Painting	236	S.Y.
Waterproofing	315	S.Y.
Bridge Rail	54	L.F.
Bridge Rail	138	L.F.
Post	1,960	Bols.
Pylons	8	E.A.
Ornaments	8	E.A.
Flashing - Copper	100	Lbs.

BORINGS





APPROVED May 31 1939
J. F. Wallace 138.53
ENGINEER OF BRIDGE DESIGN

APPROVED May 31 1939
R. H. Cummer
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED 1939
DEPUTY HIGHWAY COMMISSIONER

Br. No. 735

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
UNDER
MERWINS LANE
REINF. CONC. RIGID FRAME
GENERAL PLAN

SCALES 3/16"=1'-0"
MADE BY JWC TRACED 1-21-39
CHECKED BY HHM DATE 4-26-39
APPROVED J.F.W. DATE

W.O. 180-
BRIDGE 1

STANDARD No.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\101_SB_158-211_Brg00735_OriginalDrawings_General_Plan.dgn

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

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

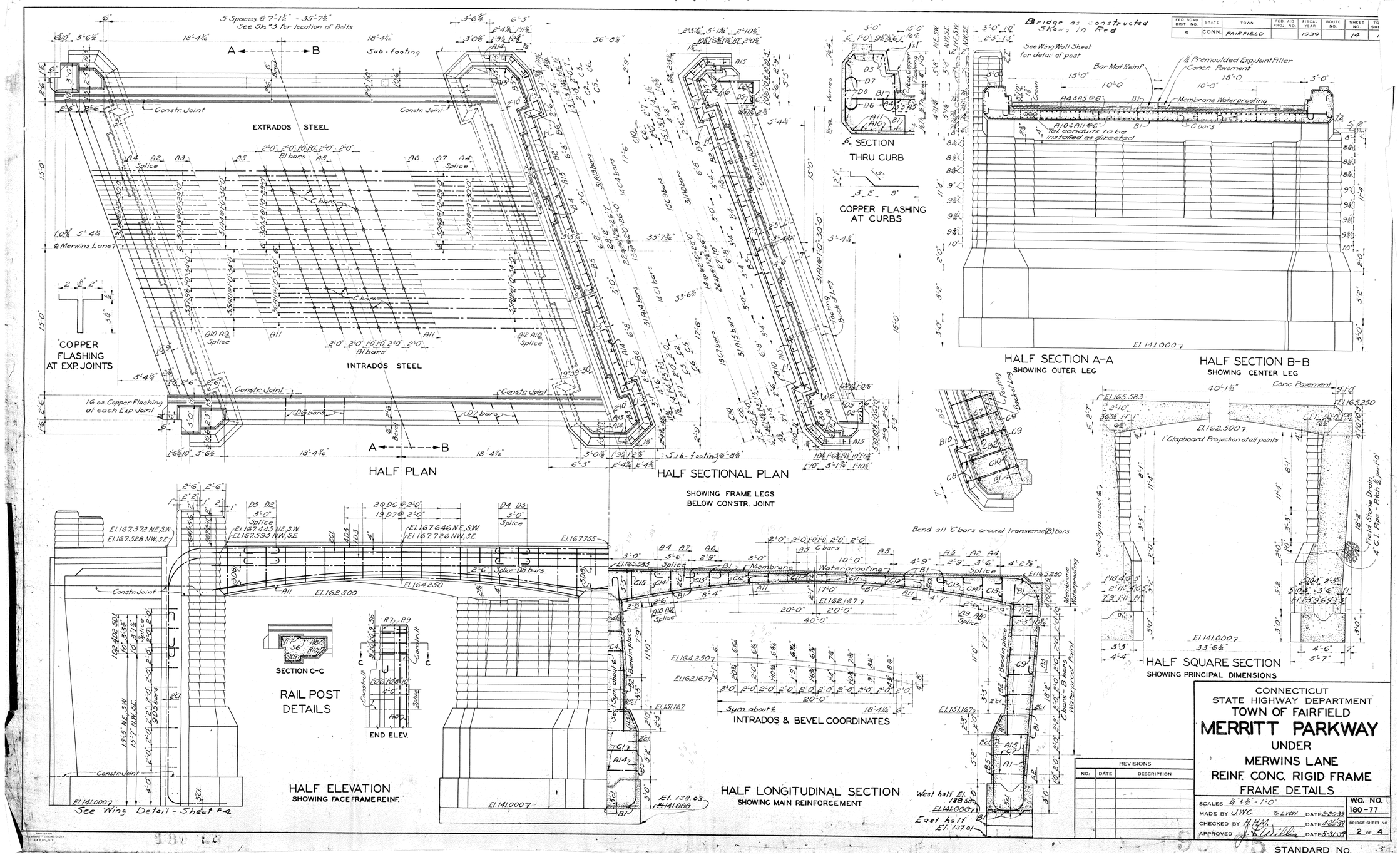
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00735 MERWINS LANE

PROJECT NO. 158-211
DRAWING NO. S-72
SHEET NO. 02.02.73

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TO SHEETS
9	CONN.	FAIRFIELD		1939		14	

Bridge as constructed shown in Red



REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
UNDER
MERWINS LANE
REINF. CONC. RIGID FRAME
FRAME DETAILS

SCALES ¼" & ½" = 1'-0"
MADE BY J.W.C. T. L. W.W. DATE 2-20-39
CHECKED BY H.H.M. DATE 4-20-39
APPROVED J. F. Willis DATE 5-31-39

WO. NO. 180-77
BRIDGE SHEET NO. 2 OF 4

STANDARD No.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\102_SB_158-211_Brg00735_OriginalDrawings_Frame.dgn

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

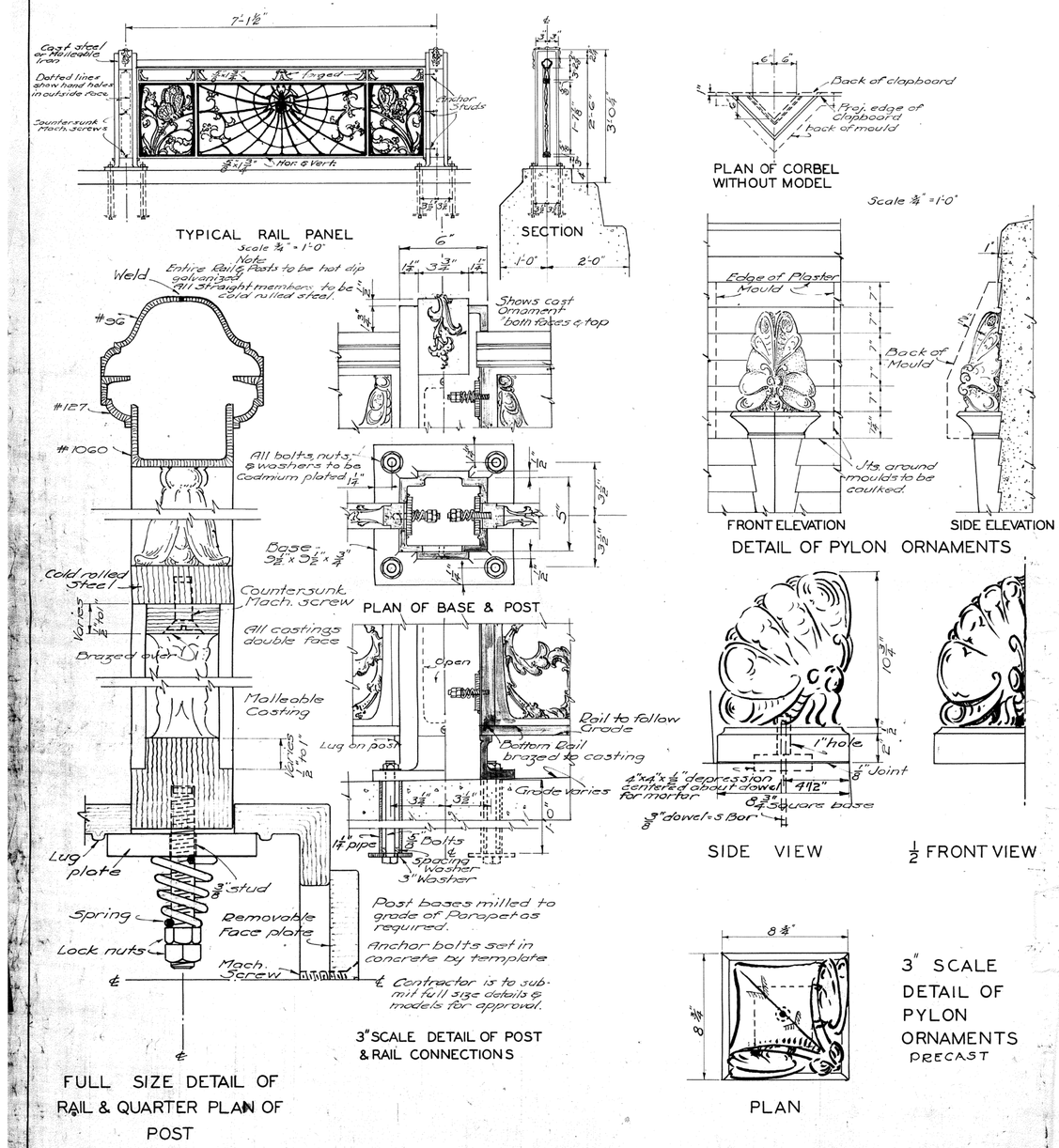
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

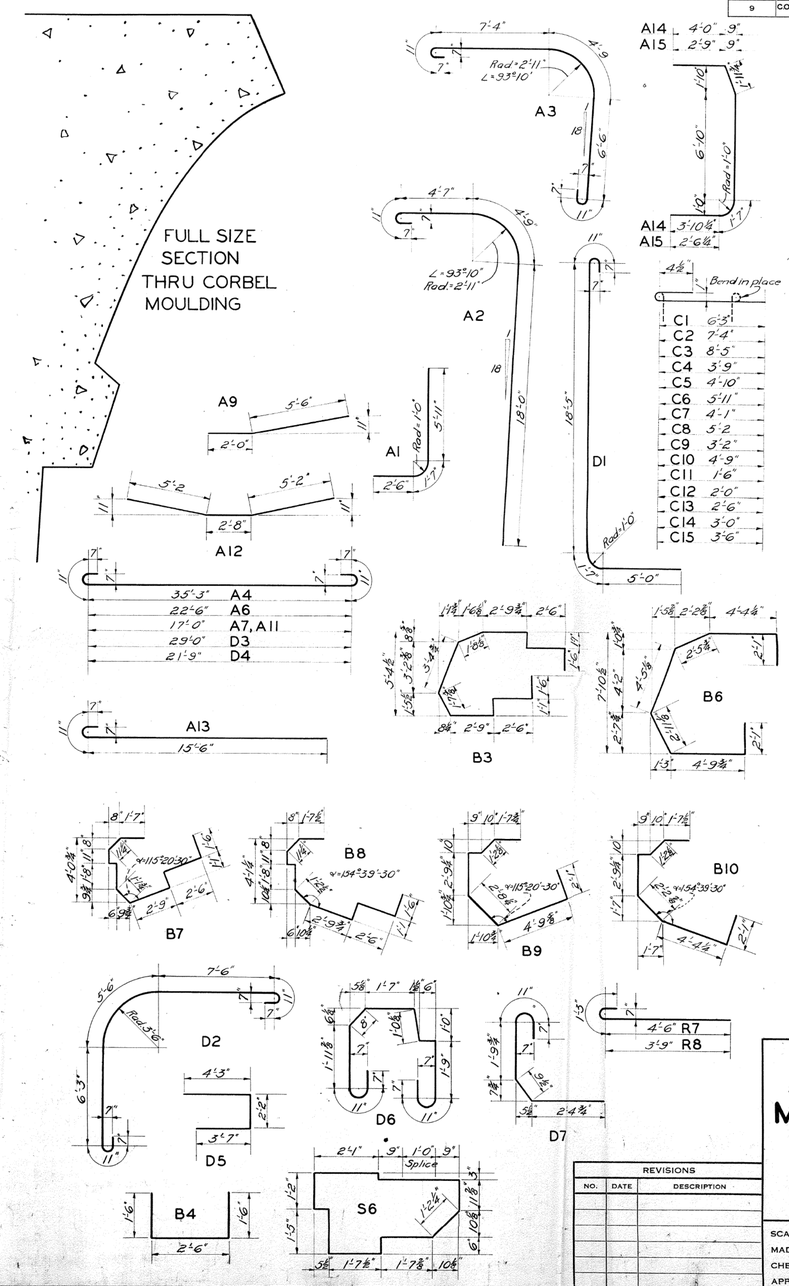
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00735 MERWINS LANE

PROJECT NO. 158-211
DRAWING NO. S-73
SHEET NO. 02.02.74

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN	FAIRFIELD		1939		15	16





BAR BILL
FRAME

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
A1	1" ⌀	62	10'-0"	1674	See Detail
A2	1⅛" □	62	28'-10"	7776	" "
A3	"	60	21'-7"	5633	" "
A4	"	62	38'-3"	10316	" "
A5	"	60	10'-0"	2610	Straight
A6	1⅛" □	30	25'-6"	4108	See Detail
A7	1⅛" □	31	20'-0"	2697	" "
A8	1" ⌀	62	15'-6"	2595	Straight
A9	1" ⌀	70	7'-6"	1418	See Detail
A10	1⅛" □	70	34'-11"	10632	Straight
A11	1⅛" □	72	20'-0"	7733	See Detail
A12	1" ⌀	33	13'-0"	1229	" "
A13	"	68	17'-0"	3121	" "
A14	"	76	18'-3"	3745	" "
A15	1⅛" □	78	15'-8"	3316	" "
B1	⅝" ⌀	111	37'-0"	4353	Straight
B2	"	24	30'-0"	763	"
B3	⅝" ⌀	12	22'-5"	183	See Detail
B4	"	48	5'-6"	180	" "
B5	⅝" ⌀	12	32'-6"	413	Straight
B6	⅝" ⌀	6	23'-2"	95	See Detail
B7	"	12	14'-7"	119	" "
B8	"	12	14'-9"	120	" "
B9	"	6	15'-11"	65	" "
B10	"	6	15'-0"	61	" "
C1	⅝" ⌀	42	6'-9	108	" "
C2	"	6	7'-10"	18	" "
C3	"	6	8'-11"	20	" "
C4	"	84	4'-3"	136	" "
C5	"	12	5'-4"	24	" "
C6	"	12	6'-5"	29	" "
C7	"	90	4'-7"	157	" "
C8	"	18	5'-8"	39	" "
C9	"	180	3'-8"	251	" "
C10	"	36	5'-3"	72	" "
C11	"	150	2'-0"	114	" "
C12	"	180	2'-6"	171	" "
C13	"	120	3'-0"	137	" "
C14	"	90	3'-6"	120	" "
C15	"	60	4'-0"	91	" "
D1	1" ⌀	20	26'-6"	1431	" "
D2	"	20	22'-3"	1202	" "
D3	"	20	32'-0"	1728	" "
D4	"	10	24'-9"	668	" "
D5	½" ⌀	36	10'-0"	243	" "
D6	"	80	10'-6"	371	" "
D7	"	76	6'-6"	336	" "
D8	"	18	29'-0	355	Straight
R7	"	8	5'-9"	31	See Detail
R8	"	4	5'-0"	14	" "
R9	"	8	8'-4"	45	Straight
R10	"	8	7'-6"	41	" "
S6	"	12	14'-10"	121	See Detail
Total				83,230 Lbs.	

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY

UNDER
MERWINS LANE
REINF. CONC. RIGID FRAME
RAILING & BAR DETAILS

SCALES as shown
MADE BY J.W.C.-G.L.D. DATE 4-24-39
CHECKED BY J.H.M. DATE 4-26-39
APPROVED J. F. Wells DATE 5-31-39

W.O. NO. 180-77
BRIDGE SHEET NO. 3 OF 4

STANDARD NO.

180 77

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\103_SB_158-211_Brg00735_OriginalDrawings_Railing.dgn

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

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

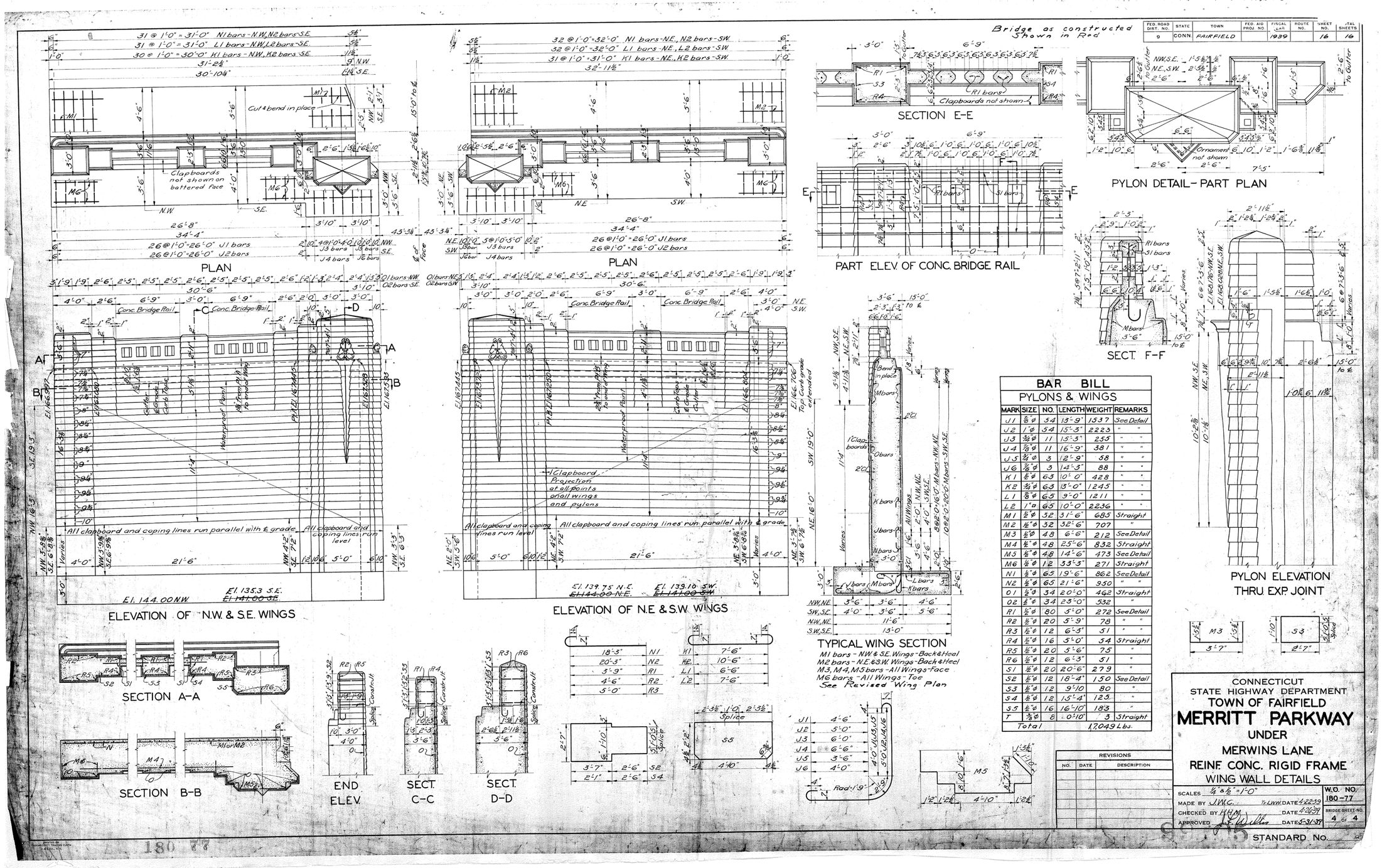
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00735 MERWINS LANE

PROJECT NO. 158-211
DRAWING NO. S-74
SHEET NO. 02.02.75

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN	FAIRFIELD		1939		16	16

Bridge as constructed Shown in Red



BAR BILL
PYLONS & WINGS

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
J1	7/8 ⌀	54	13'-9"	1537	See Detail
J2	1" ⌀	54	15'-3"	2223	" "
J3	3/4 ⌀	11	15'-3"	255	" "
J4	7/8 ⌀	11	16'-9"	381	" "
J5	3/4 ⌀	3	12'-9"	58	" "
J6	7/8 ⌀	3	14'-3"	88	" "
K1	5/8 ⌀	63	10'-0"	428	" "
K2	3/4 ⌀	63	13'-0"	1245	" "
L1	5/8 ⌀	65	9'-0"	1211	" "
L2	1" ⌀	65	10'-0"	2236	" "
M1	1/2 ⌀	32	31'-6"	685	Straight
M2	1/2 ⌀	32	32'-6"	707	"
M3	1/2 ⌀	48	6'-6"	212	See Detail
M4	1/2 ⌀	48	25'-6"	832	Straight
M5	1/2 ⌀	48	14'-6"	473	See Detail
M6	1/2 ⌀	12	33'-3"	271	Straight
N1	1/2 ⌀	65	19'-6"	862	See Detail
N2	1/2 ⌀	65	21'-6"	950	" "
O1	1/2 ⌀	34	20'-0"	462	Straight
O2	1/2 ⌀	34	23'-0"	532	"
R1	1/2 ⌀	80	5'-0"	272	See Detail
R2	1/2 ⌀	20	5'-9"	78	" "
R3	1/2 ⌀	12	6'-3"	51	" "
R4	1/2 ⌀	16	5'-0"	34	Straight
R5	1/2 ⌀	20	5'-6"	75	"
R6	1/2 ⌀	12	6'-3"	51	"
S1	1/2 ⌀	20	20'-6"	279	"
S2	1/2 ⌀	12	18'-4"	150	See Detail
S3	1/2 ⌀	12	9'-10	80	"
S4	1/2 ⌀	12	15'-4"	123	"
S5	1/2 ⌀	16	16'-10"	183	"
T	3/8 ⌀	8	0'-10"	3	Straight
Total				17,049 Lbs.	

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
UNDER
MERWINS LANE
REINF. CONC. RIGID FRAME
WING WALL DETAILS

SCALES 1/4" & 1/2" = 1'-0"
MADE BY J.W.C. Tr. L.W.W. DATE 4-22-39
CHECKED BY H.H.M. DATE 4-26-39
APPROVED J.S.W. DATE 5-31-39
W.O. NO. 180-77
BRIDGE SHEET NO. 4 OF 4
STANDARD NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\104_SB_158-211_Brg00735_OriginalDrawings_Wingwalls.dgn

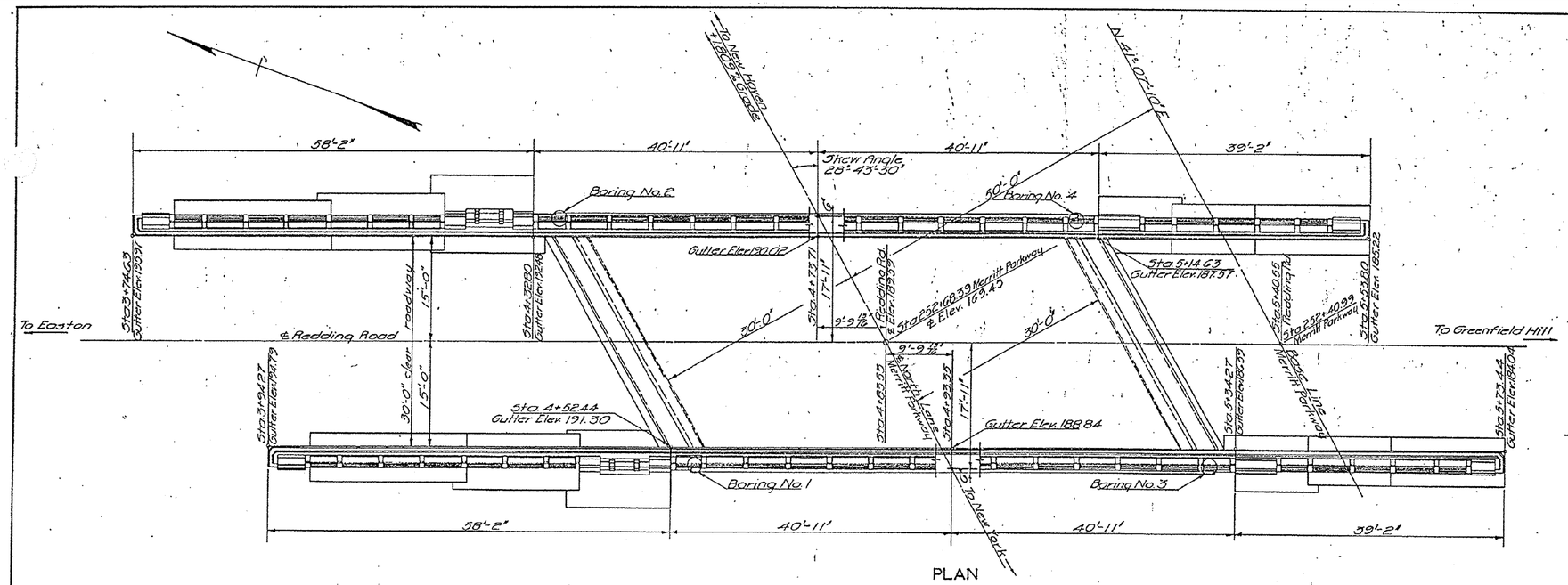
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mary E. Bach

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00735 MERWINS LANE

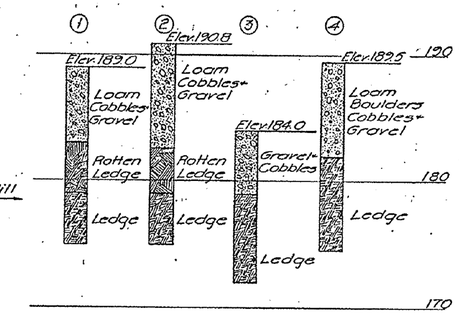
PROJECT NO. 158-211
DRAWING NO. S-75
SHEET NO. 02.02.76

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.						



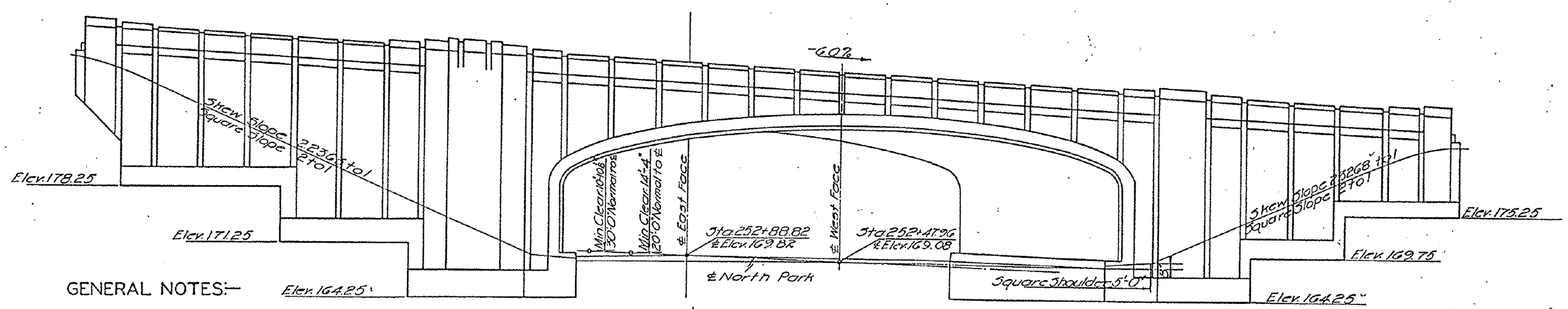
PLAN

BORING DATA



QUANTITIES

Unclassified Excavation	900 C.Y.
Class "A" Concrete	1164 C.Y.
1/2" Cork or Rubber Exp. Jt. Filler	354 S.F.
Deformed Steel Bars	116,600 Lb.
Waterproof Painting	470 S.Y.
Membrane Waterproofing	314 S.Y.
Concrete Bridge Rail	299 L.F.
Portland Cement	1900 Bbl.



WEST ELEVATION

GENERAL NOTES:—

Designed for H-20 Loading—Conn. State Highway Dept Specifications.
Class "A" (1:2½:4) Concrete to be used thruout except for Railing.
Class "C" (1:2½:4) Concrete to be used for Concrete Bridge Rail.
Reinforcing Steel to consist of deformed bars of an approved type.
Membrane Waterproofing, with Copper Flashing at curbs, to be placed on frame as shown.
Waterproof Paint to be applied in two coats to back of frame legs, spandrels, and Wingwalls from gutterline to top of footings.
Backfilling to be kept at approximately the same height at each end of the Frame while being placed and to be thoroughly tamped in layers. Boulders and rocks to be kept out of all fill.
Backfilling to be completed before inside frame forms are removed.
Unclassified Excavation to include only that required after Roadway Excavation (including side slopes) has been completed.
Construction Joints are to be arranged only as shown on plans, each face of frame being formed in one pour above footings, so there are no joints in the faces.
Quantities given are approximate only and the Contractor is assumed responsible for checking them in preparing his bid.

APPROVED October 25 1937
ENGINEER OF BRIDGE DESIGN
APPROVED Oct. 25 1937
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED 1937
DEPUTY HIGHWAY COMMISSIONER

00736

BRIDGE SHEET 1 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
UNDER
REDDING ROAD
REINF. CONCRETE RIGID FRAME
GENERAL PLAN

SCALES 1/8" = 1'-0"
MADE BY G.S.B. Tr. E.C.J. DATE 9-28-37
CHECKED BY C. J. H. DATE 10-22-37
APPROVED DATE
PROJECT NUMBER 180-78-A
SHEET NO. 1B OF 1B

STANDARD NO. 1B

180 78 1

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\105_SB_158-211_Brg00736_OriginalDrawings_General_Plan.dgn

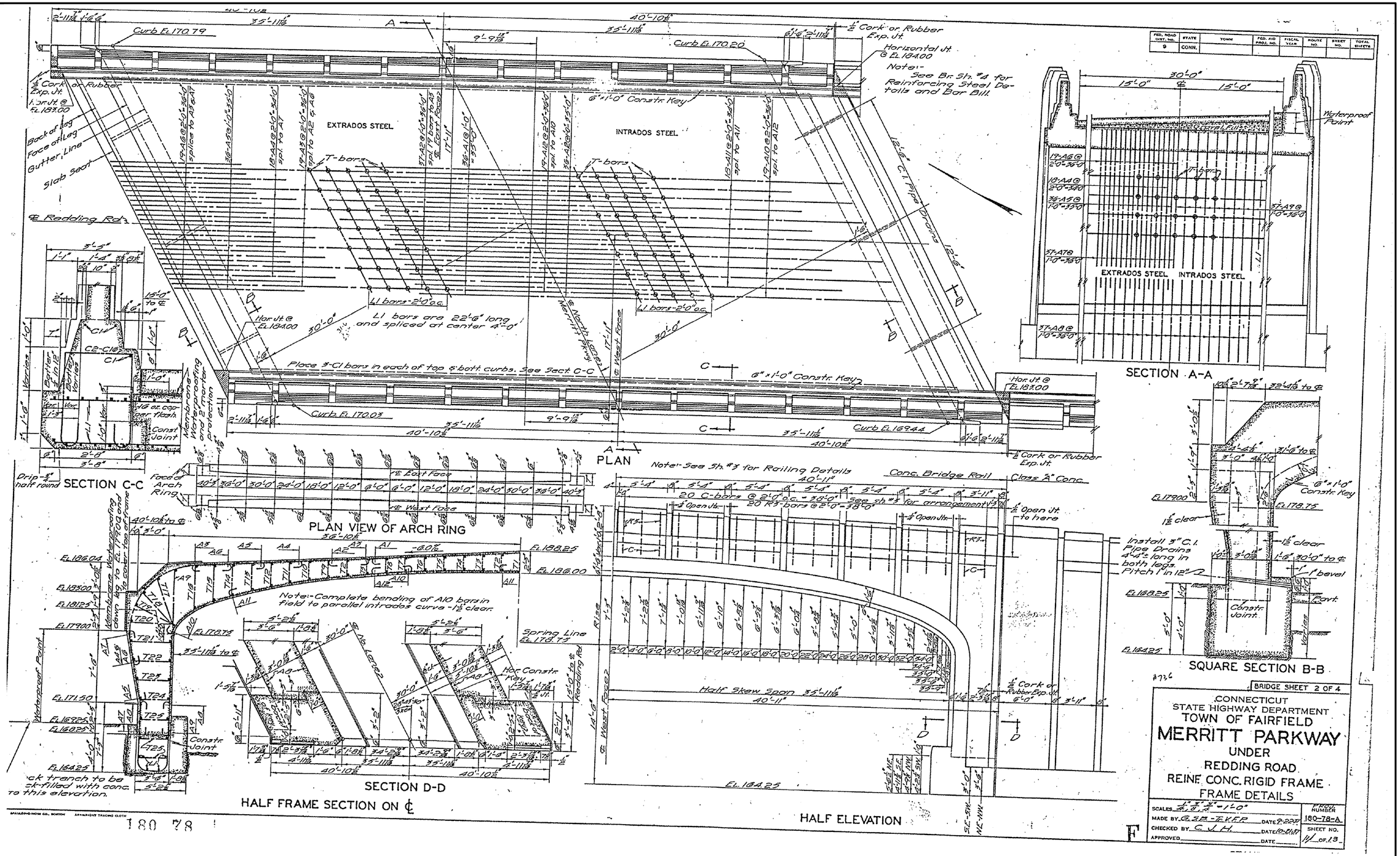
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

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

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00736 REDDING RD

PROJECT NO. 158-211
DRAWING NO. S-76
SHEET NO. 02.02.77



FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.						

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: 6/3/2016

DESIGNER/DRAFTER: MC

CHECKED BY: JRH/DSG

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\106_SB_158-211_Brg00736_OriginalDrawings_Frame.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Mary E. Boda

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

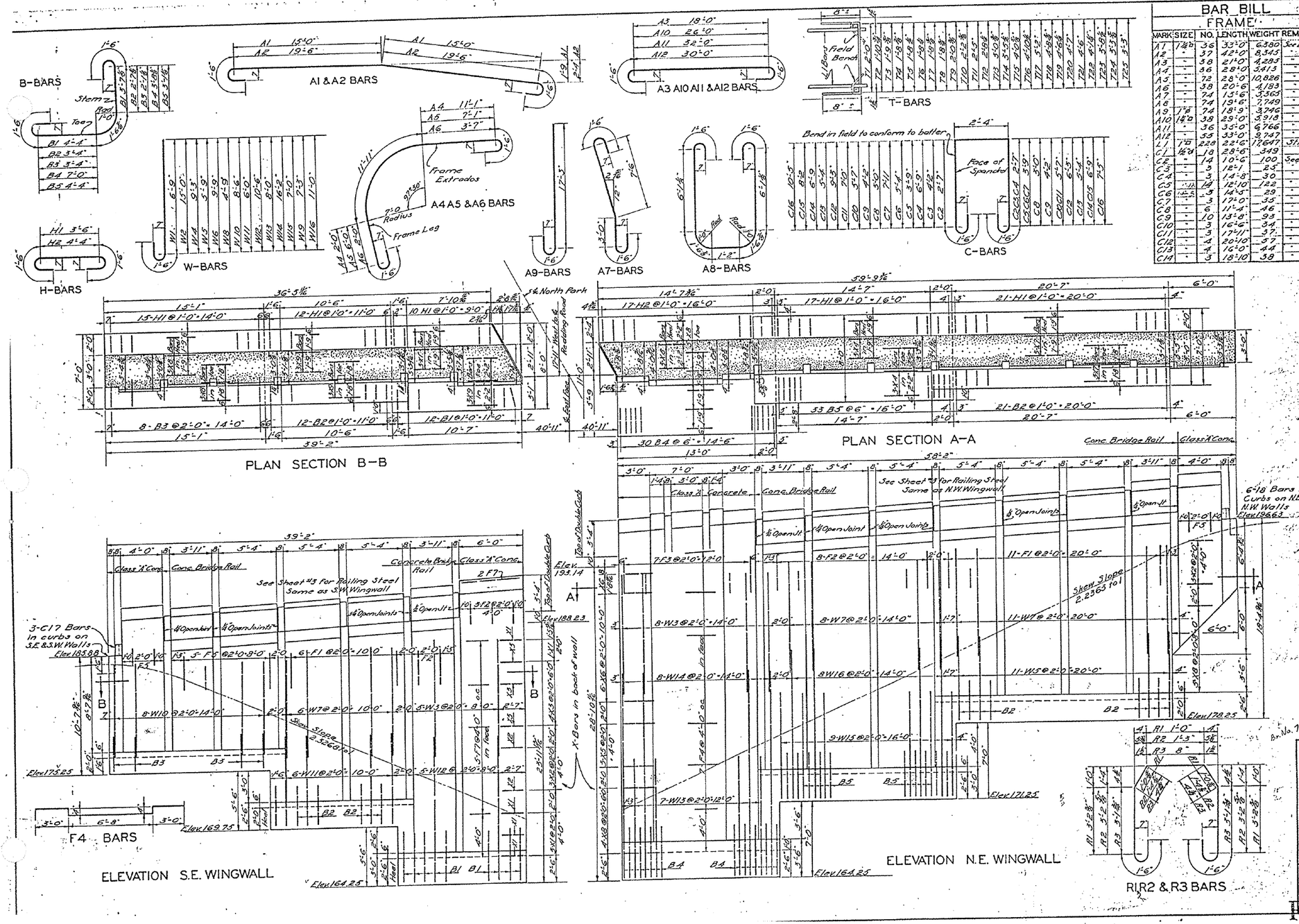
TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE:
EXISTING PLANS
BRIDGE NO. 00736
REDDING RD

PROJECT NO. 158-211

DRAWING NO. S-77

SHEET NO. 02.02.78



BAR BILL

FRAME

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
A1	1 1/8"	36	33'-0"	6,380	See Detail
A2	"	37	42'-0"	8,345	"
A3	"	38	21'-0"	4,283	"
A4	"	36	28'-0"	3,413	"
A5	"	72	28'-0"	10,826	"
A6	"	38	20'-6"	4,183	"
A7	"	74	15'-6"	3,565	"
A8	"	74	19'-6"	7,749	"
A9	1 1/8"	74	18'-9"	3,746	"
A10	1 1/8"	38	29'-0"	5,918	"
A11	"	36	35'-0"	6,766	"
A12	"	35	33'-0"	6,747	"
L1	1"	228	22'-6"	17,647	Straight
C1	1/2"	18	28'-6"	349	
C2	"	14	10'-6"	100	See Detail
C3	"	3	12'-1"	25	"
C4	"	3	14'-8"	30	"
C5	1 1/8"	14	12'-10"	122	"
C6	1 1/8"	3	14'-5"	29	"
C7	"	3	17'-0"	35	"
C8	"	6	11'-4"	46	"
C9	"	10	13'-8"	93	"
C10	"	3	16'-8"	34	"
C11	"	3	17'-11"	37	"
C12	"	4	20'-10"	57	"
C13	"	4	16'-0"	44	"
C14	"	3	18'-10"	38	"
C15	5/8"	3	20'-5"	41	See Detail
C16	"	4	22'-2"	63	"
T1	3/4"	19	3'-4"	24	See Detail
T2	"	76	3'-5"	94	"
T3	"	76	3'-2"	91	"
T4	"	38	3'-1"	45	"
T5	"	38	3'-1"	45	"
T6	"	38	3'-0"	43	"
T7	"	38	3'-0"	43	"
T8	"	38	3'-1"	45	"
T9	"	38	3'-4"	48	"
T10	"	38	3'-6"	51	"
T11	"	38	3'-9"	54	"
T12	"	38	4'-0"	58	"
T13	"	38	4'-4"	63	"
T14	"	38	4'-10"	70	"
T15	"	38	5'-4"	77	"
T16	"	38	6'-3"	90	"
T17	"	38	6'-6"	94	"
T18	"	38	6'-1"	88	"
T19	"	38	5'-10"	84	"
T20	"	38	5'-11"	85	"
T21	"	38	5'-10"	84	"
T22	"	38	5'-5"	78	"
T23	"	38	5'-1"	73	"
T24	"	38	4'-8"	67	"
T25	"	114	4'-7"	199	"

WINGWALLS

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
B1	1"	24	12'-6"	1,032	See Detail
B2	7/8"	66	10'-6"	1,435	"
B3	"	16	10'-0"	331	"
B4	1"	60	13'-3"	3,148	"
B5	7/8"	66	12'-0"	1,639	"
H1	5/8"	134	6'-6"	681	"
H2	3/4"	29	7'-4"	225	"
W1	1/2"	6	8'-3"	170	"
W2	"	7	16'-6"	397	"
W3	5/8"	26	11'-10"	209	Straight
W4	1"	6	10'-9"	222	See Detail
W5	3/4"	20	7'-3"	300	"
W6	"	8	11'-3"	198	"
W7	5/8"	50	10'-10"	368	Straight
W8	3/4"	17	6'-3"	220	See Detail
W9	5/8"	8	8'-9"	48	"
W10	"	8	10'-0"	54	"
W11	3/4"	6	7'-6"	93	"
W12	1"	5	18'-0"	206	"
W13	"	2	9'-6"	220	"
W14	"	8	17'-8"	486	"
W15	3/4"	9	8'-6"	138	"
W16	"	8	12'-6"	207	"
X1	5/8"	10	10'-0"	68	Straight
X2	"	12	22'-0"	180	"
X3	"	8	37'-0"	201	"
X4	"	12	16'-0"	131	"
X5	"	6	31'-0"	126	"
X6	"	13	39'-0"	345	"
X7	"	12	20'-0"	163	"
X8	"	43	14'-6"	424	"
X9	"	24	11'-6"	188	"
F1	"	17	14'-6"	165	"
F2	"	13	20'-0"	177	"
F3	"	7	26'-0"	124	"
F4	"	14	15'-4"	127	Detailed
F5	"	9	9'-6"	58	Straight
F6	"	77	13'-0"	150	"
F7	1"	14	3'-8"	54	"
F8	"	7	23'-0"	119	"
F9	"	13	18'-9"	166	"
F10	"	9	8'-3"	50	"
F11	1"	146	3'-0"	436	"
C17	"	6	38'-0"	155	"
C18	"	12	29'-6"	241	"

RAILING

MARK	SIZE	NO.	LENGTH	WEIGHT	REMARKS
R1	3/4"	22	12'-6"	187	See Detail
R2	"	8	13'-6"	73	"
R3	"	144	10'-9"	1,033	"
Total Lb.				116,374	

BRIDGE SHEET 4 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
UNDER
REDDING ROAD

REINF. CONCRETE RIGID FRAME
WINGWALL & STEEL DETAILS

SCALES 1/4" = 1'-0"
MADE BY G.S.B. / T.L.W.W. DATE 9-'37
CHECKED BY C.J.H. DATE 10-22-37
APPROVED ____ DATE ____
NUMBER 180-78-A
SHEET NO. 13 OF 13

STANDARD No. 13

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\107_SB_158-211_Brg00736_OriginalDrawings_Wingwalls.dgn

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

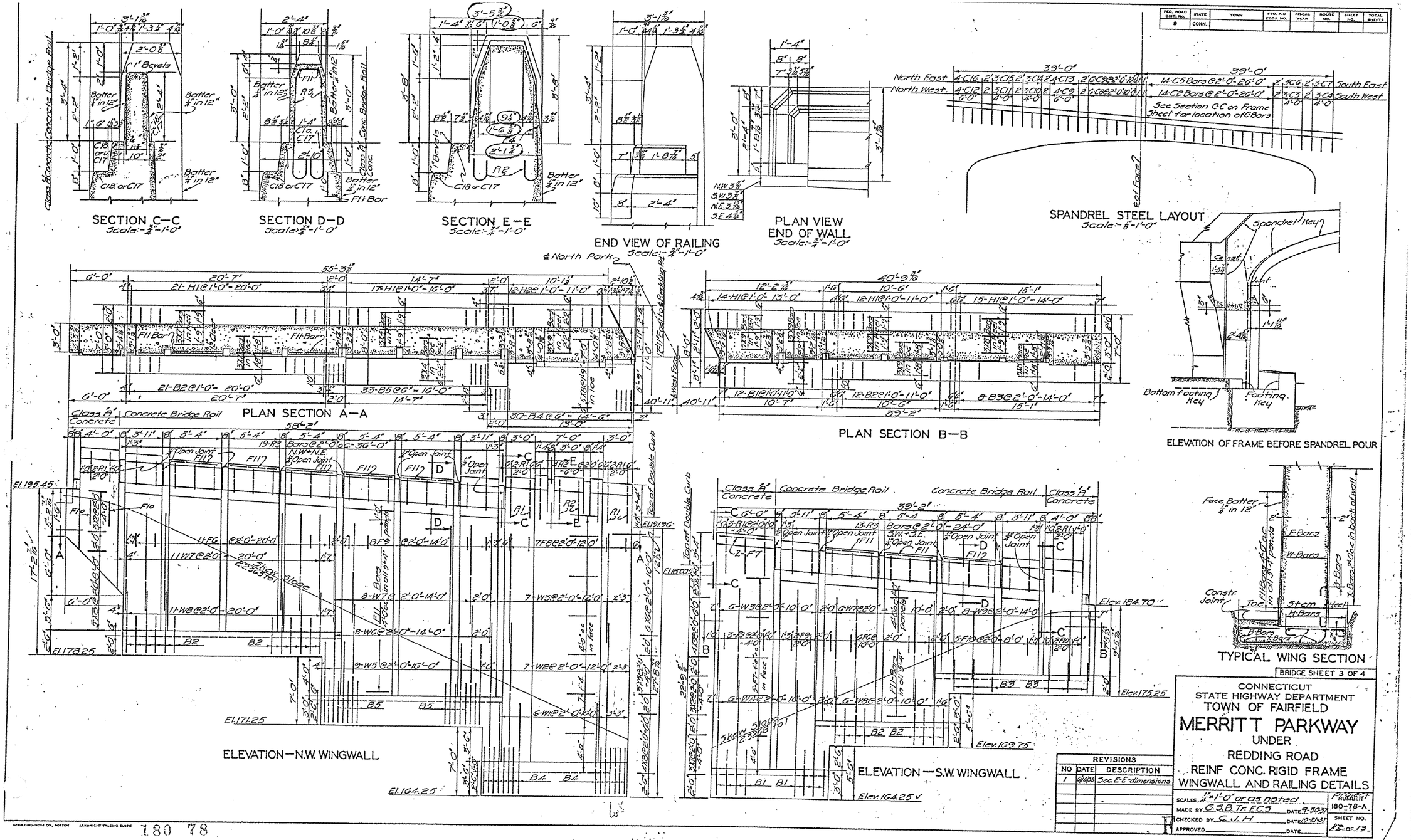
PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

TOWN: WESTPORT/FAIRFIELD

DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00736 REDDING RD

PROJECT NO. 158-211
DRAWING NO. S-78
SHEET NO. 02.02.79

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.						



REVISIONS		
NO	DATE	DESCRIPTION
1	6/16/98	Sec. C-E dimensions

BRIDGE SHEET 3 OF 4

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIRFIELD

MERRITT PARKWAY
UNDER
REDDING ROAD
REINF CONC. RIGID FRAME
WINGWALL AND RAILING DETAILS

SCALES 1/4"=1'-0" or as noted
MADE BY G.S.B. Tr. E.C.S. DATE 9-30-97
CHECKED BY C.J.H. DATE 10-21-97
APPROVED ____ DATE ____
PROJECT NUMBER 180-78-A
SHEET NO. 12 OF 13

STANDARD No. 12

180 78

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

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Plotted Date: 6/3/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\108_SB_158-211_Brg00736_OriginalDrawings_Railing.dgn

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

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

TOWN: WESTPORT/FAIRFIELD
DRAWING TITLE: EXISTING PLANS BRIDGE NO. 00736 REDDING RD

PROJECT NO. 158-211
DRAWING NO. S-79
SHEET NO. 02.02.80