06 - EXISTING DRAWINGS

INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
E-1	INDEX OF DRAWINGS		
E-2 - E-60	EXISTING DRAWINGS		

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.

Digitally signed by Andrew J. Cardinali, P.E.
Date: 2021.01.06 11:15:39-05'00'

TRANSPORTATION PRINCIPAL ENGINEER

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: 1/4/2021

DESIGNER/DRAFTER: ECO

CHECKED BY: ZMK

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\0042-0325 Existing Drawings Index.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: **EAST HARTFORD**

DRAWING TITLE: **INDEX OF DRAWINGS**

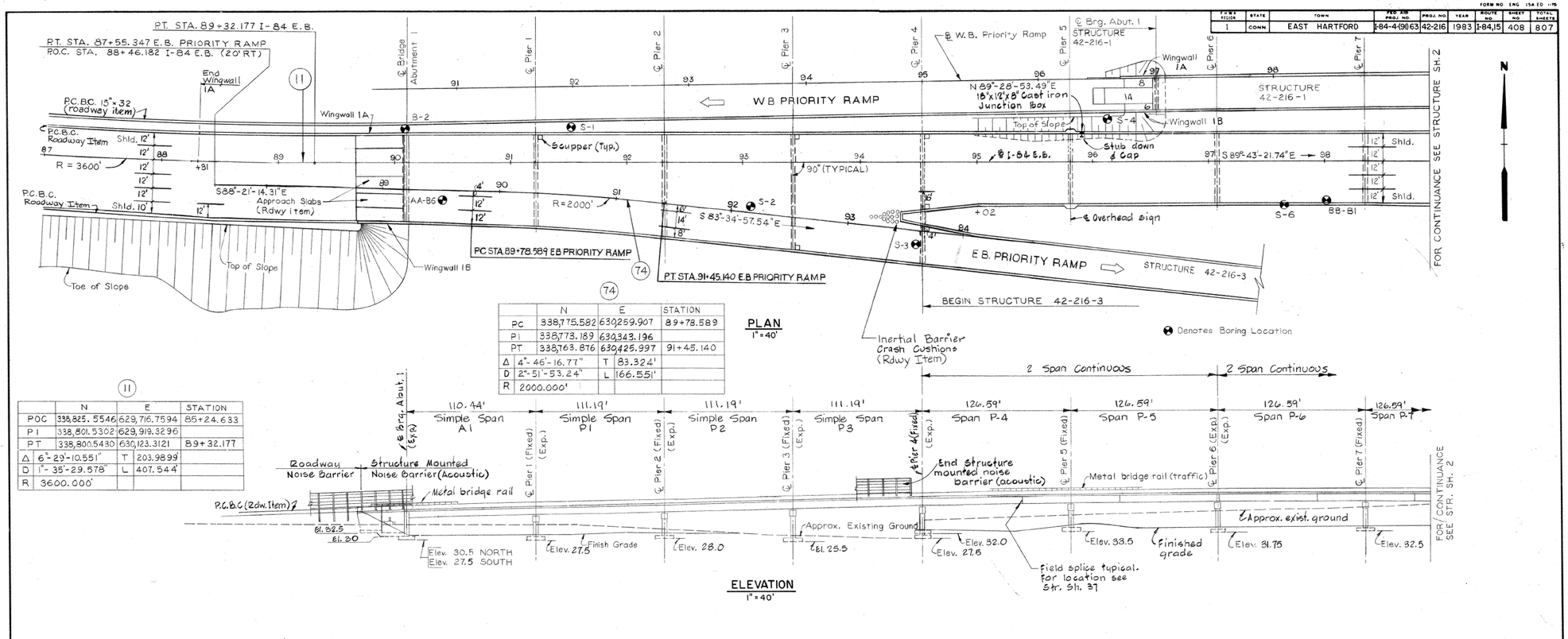
PROJECT NO. **0042-0325**

DRAWING NO. **E-1**

SHEET NO. **06.01**

F.A. OR S.P. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(90)63	42-216	1983	I-84,15	408	807

FORM NO. ENG. 15A ED. 1-75



	N	E		STATION
PC	338,775.582	630,259.907		89+78.589
PI	338,773.189	630,343.196		
PT	338,763.876	630,425.997		91+45.140
Δ	4°-46'-16.77"	T	83.324'	
D	2°-51'-53.24"	L	166.551'	
R	2000.000'			

(74)

PLAN
1" = 40'

	N	E		STATION
POC	338,825.5546	629,716.7594		85+24.633
PI	338,801.5302	629,919.3296		
PT	338,800.5430	630,123.3121		89+32.177
Δ	6°-29'-10.551"	T	203.9899'	
D	1°-35'-29.578"	L	407.544'	
R	3600.000'			

(11)

ELEVATION
1" = 40'

GENERAL NOTES

SPECIFICATIONS
Connecticut Department of Transportation Form 812 (1980) and Special Provisions.

DESIGN SPECIFICATIONS
Standard Specifications for Highway Bridges (AASHTO 1977), with the interim specifications up to and including (1980), as supplemented by the Connecticut Department of Transportation Bridge Manual (1964).

ALLOWABLE DESIGN STRESSES
Class "A" and Class "F" Concrete based on f'_c = 3000 psi
Reinforcement (ASTM A615 GRADE 60). fs(tensile) = 24,000 psi
Structural Steel
ASTM A588 Weathering Ft. = 27,000 psi All thicknesses to 4" inclusive

LIVE LOAD
HS 20-44 24,000 # Dual axles at 4'-0" O.C.

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 entire substructure and parapets of the U-Type Wings.

CLASS "F" CONCRETE
Class "F" Concrete shall be used for bridge decks including parapets.

EPOXY COATED REINFORCEMENT
All top deformed steel bars in deck to be epoxy coated. See Special Provisions.

JOINT SEAL
See Special Provisions.

PARAFFIN
The cost of furnishing and applying paraffin is included in the item for Class "F" Concrete.

EXPOSED EDGES
Exposed edges shall be beveled 1" x 1" unless dimensioned otherwise.

STRUCTURAL STEEL
See Structure Sheet No. 37 for ASTM designations.

PAINT
NO painting of structural Steel required. Steel surfaces to be prepared for weathering in accordance to the specifications.

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 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.

FELT
The cost of Furnishing and placing 15 lb. felt is included in the item for "Class "A" Concrete".

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NO.	DATE	DESCRIPTION

REVISIONS

THIS SHEET NOT CORRECTED

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

GENERAL PLAN - SHEET 1 OF 2

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER RHC DRAFTER J.M.S. CHECKER M.A.K.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 1 of 58

42-216 42-225 383-01 408

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 1.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

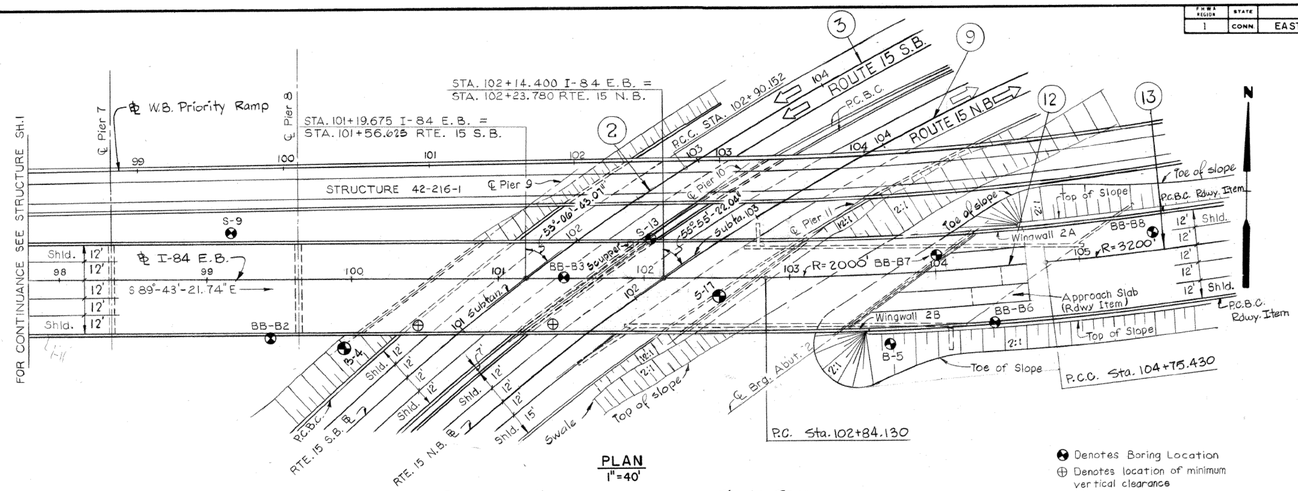
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

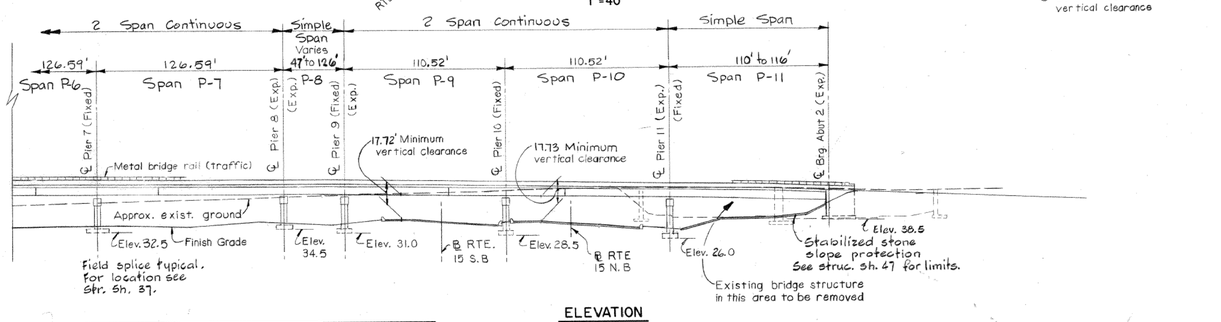
PROJECT NO. **0042-0325**
DRAWING NO. **E-2**
SHEET NO. **06.02**

FORM NO. ENG. 11A (D-1)-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-(903)	42-216	1983	I-84, 15	409	807



PLAN
1" = 40'



ELEVATION
1" = 40'

CONCRETE DISTRIBUTION	BRIDGE 42-216-2	
	UNIT	QUANTITY
Superstructure	C.Y.	3380
Substructure	C.Y.	2186
Footings	C.Y.	1414
TOTAL	C.Y.	6980

INSPECTION OF FIELD WELDS	BRIDGE 42-216-2	
METHOD	UNIT	QUANTITY
Radiographic or Ultrasonic	in.	3584
Magnetic Particle	L.F.	—
Ultrasonic	in.	—

QUANTITIES ITEM	BRIDGE 42-216-2 UNIT	QUANTITY
STRUCTURE EXCAVATION-EARTH (COMPLETE)	C.Y.	5980
PERVIOUS STRUCTURE BACKFILL	C.Y.	2310
BITUMINOUS CONCRETE (CLASS 1)	TON	900
BITUMINOUS CONCRETE (CLASS 12)	TON	600
BRIDGE SCUPPER-FIBERGLAS HOPPER	EA.	6
8" PIPE FOR BRIDGE DRAINAGE	L.F.	210
1 1/2" POLYVINYL CHLORIDE PLASTIC PIPE	L.F.	230
3 INCH PREFABRICATED EXPANSION JOINT	L.F.	126
ELASTOMERIC BEARING PADS	C.I.	86,000
4" ELASTOMERIC COMPRESSION SEAL	L.F.	396
CONCRETE (CLASS "A")	C.Y.	3000
CONCRETE (CLASS "F")	C.Y.	3380
1/2" PREFORMED EXP. JT. FILLER FOR BRIDGES	S.F.	1260
1" PREFORMED EXP. JT. FILLER FOR BRIDGES	S.F.	141
1 1/2" PREFORMED EXP. JT. FILLER FOR BRIDGES	S.F.	475
1 INCH CLOSED CELL ELASTOMER	C.I.	14,920
STAIN PROTECTION BRIDGE 42-216-2	L.S.	1
SAW CUTTING BRIDGE JOINTS	L.F.	790
DEFORMED STEEL BARS	LBS.	1,400,000
DEFORMED STEEL BARS (EPOXY COAT)	LBS.	560,000
STRUCTURAL STEEL BRIDGE NO. 42-216-2	L.S.	1
CONCRETE CYLINDER CURING BOX	EA.	1
MEMBRANE WATERPROOFING (SHEET)	S.Y.	10,805
DAMPPROOFING	S.Y.	620
BAGGED STONE	C.F.	108
STABILIZED STONE SLOPE PROTECTION	S.Y.	632
6" CCM OUTLETS FOR UNDERDRAIN	L.F.	109

QUANTITIES ITEM	BRIDGE 42-216-2 UNIT	QUANTITY
8"x16" SLOPED GRANITE STONE CURBING FOR BRIDGES	L.F.	2900
PROTECTIVE COMPOUND FOR BRIDGES	S.Y.	830
PROTECTIVE COMPOUND FOR BRIDGES (PIER CAPS)	S.Y.	425
METAL BRIDGE RAIL (TRAFFIC)	L.F.	3025
STRUCTURE MOUNTED NOISE BARRIER (ACOUSTIC)	S.F.	5700
SHEAR CONNECTORS	L.S.	1
2 INCH 21010 METAL CONDUIT IN STRUCTURE	L.F.	11
18"x12"x8" CAST IRON JUNCTION BOX	EA.	1
SPLICING STEEL GIRDERS (42-216-2)	EA	43

(2)

	N	E	STATION
PC	338,469.708	630,984.428	
PI	338,710.920	631,165.114	
PCC	338,869.866	631,421.175	102+90.152
Δ	21°-20'-05.64"	T 301.382'	
D	3°-34'-51.55"	L 595.783'	
R	1600.000'		

(3)

	N	E	STATION
PCC	338,869.866	631,421.175	102+90.152
PI	338,985.811	631,607.964	
PT	339,062.501	631,814.002	
Δ	11°-24'-48.07"	T 219.848'	
D	2°-36'-15.67"	L 438.241'	
R	2200.0000'		

(9)

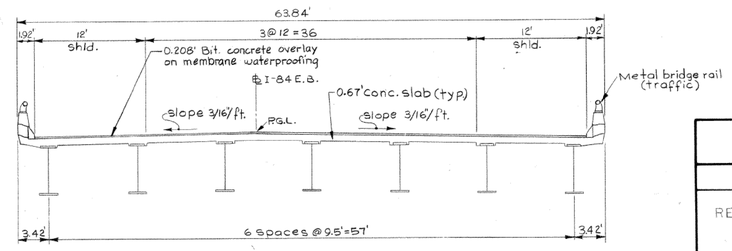
	N	E	STATION
PC	338,453.334	631,041.057	97+22.468
PI	338,865.624	631,358.668	
PCC	339,001.711	631,861.002	107+26.462
Δ	37°-13'-58.01"	T 520.442'	
D	3°-42'-30.47"	L 1003.994'	
R	1545.000'		

(12)

	N	E	STATION
PC	338,794.000	631,475.250	102+84.130
PI	338,793.536	631,570.972	
PCC	338,802.217	631,666.300	104+75.430
Δ	5°-28'-49.17"	T 95.723'	
D	2°-51'-53.24"	L 191.300'	
R	2000.000'		

(13)

	N	E	STATION
PCC	338,802.217	631,666.300	104+75.430
PI	338,870.544	632,416.648	
PT	339,266.479	633,057.684	119+55.380
Δ	26°-29'-54.24"	T 753.453'	
R	3200.000'	L 1479.950'	



TYPICAL BRIDGE SECTION

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

GENERAL PLAN - SHEET 2 OF 2

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER RHC | DRAFTER JMS | CHECKER MAK
APPROVED J. F. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 2 of 58

42-216 42-225 383-01 409

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 2.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-3
SHEET NO. 06.03

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	EAST HARTFORD	I-84-4-19063	42-216	1983	I-84,15	410	807

FORM NO. ENG. 154 ED. 1-78

B-2

Recons. of Rte. I-84
Sta. 90+10 30' Lt.
10/17-23/79

3.5" DIA. HOLLOW STEM AUGER BORING

N 338818
E 630200

Elevation	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 44.2					
EL. 43.7	Topsoil				S1
	Red Silt and Fine Sand, Little Medium - Coarse Sand, Trace Fine - Coarse Gravel (I-84 FILL)	6	5	20	S2
EL. 37.2					
EL. 35.7	Brown Fine - Medium Sand, Some Silt, Little Wood (I-84 FILL)				
	Red Fine Sand, Little Silt (I-84 FILL)	6	9	11	S3
EL. 28.2		5	5	7	S4
	Red Silt and Fine Sand, Little Medium - Coarse Sand, Little Fine - Coarse Gravel (I-84 FILL)	6	5	7	S5
		10	6	7	S6
EL. 16.7					
	Red Fine Sand, Little Silt, Trace Coarse Gravel (I-84 FILL)	12	21	13	S7
EL. 13.2					
	Brown Silt and Fine Sand, Little Medium - Coarse Sand, Trace Fine - Coarse Gravel, Wood (I-84 FILL)	12	13	17	S8
EL. 6.2					
	Brown Silt and Fine Sand, Little Root Matter	4	4	5	S9
EL. 1.2					
EL. 0.00	Brown Fine - Coarse Sand and Fine Gravel, Trace Silt	12	29	11	S10
EL. -4.8					
	Gray Silt, Little Fine Sand, Little Clay (Varved)	6	4	4	S11
					UP 1
		2	4	4	S12
		2	2	4	S13
EL. -19.8					
	Gray Silt and Clay, Trace Fine Sand (Varved)	2	2	2	S14
		2	2	2	S15
		5	4	4	S16
					UP 2
		3	4	4	S17
		3	4	4	S18
		4	4	4	S19
		5	6	6	S20

MATCH LINE

NOTES: B-2
Open hole from EL. -15.8
Used 2 1/2" sample spoon from EL. 44.2 to EL. -30.8
Used 1 3/8" sample spoon from EL. -30.8 to bottom of hole.

B-2

MATCH LINE

Elevation	Description				
		5	6	5	S21
		4	3	4	S22
					UP 3
		4	4	4	S23
		3	4	4	S24
EL. -74.3					
	Gray Silt and Gray Brown Clay, Trace Fine Sand (Varved)	4	4	4	S25
		4	4	4	S26
		3	4	4	S27
EL. -90.8					
	Red Brown Silt, Some Clay, Trace Fine Sand (Varved)	4	3	4	S28
		4	4	4	S29
		4	4	4	S30
					UP 4
		4	4	4	S31
EL. -117.3		4	4	4	S32

Bottom of Boring

AA-B6

Recons. of Rte. I-84
Sta 90+41 52' Rt.
2/23-26/60

3.5" DIA. CASED BORING

N 338767
E 630232

24 Hrs.

Elevation	Description	0"-6"	6"-12"	12"-18"	
EL. 9.0					
	Fine Sand and Silt Gray and Brown	3	7	9	1
EL. 6.0					
	Fine to Coarse Sand Brown	5	9	13	2
EL. 0.00					
	Fine Sand and Silt Gray Clayey Silt	3	4	6	3
		4	4	3	4
EL. -9.0					
	Silty Clay Varved Clay Gray	3	4	3	5
					6
					V1
		1	1	2	7
		1	1	2	8
					9
					V2
		3	4	4	0" Recovery
		2	4	3	10
					11
					V3
		4	3	5	12
		3	3	3	13

MATCH LINE

AA-B6

MATCH LINE

Elevation	Description				
		55			
		56			
		60			
		63			
		66			
		60			
		82			
		65			
		90			
		77			
		83			
		70			
		80			
		77			
		72			
		76			
		73			
		73			
		75			
		81			
		84			
		80			
		82			
		85			
		100			
		107			
EL. -87.0					
		2	2	3	14
					15
					V4
		5	5	6	16
		4	5	6	17
		4	4	5	18
					19
					V5

Bottom of Boring

NOTE: AA-B6
Used 1 3/8" sample spoon

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KEY

BORING NO.
LOCATION
DATE
SURFACE ELEVATION
TYPE OF BORING
COORDINATES

EL.
SOIL DESCRIPTION AND REMARKS
EL.

S1 — RECOVERED SAMPLE NUMBER
WATER LEVEL IN BORING AT THE TIME OF EXPLORATION OR HOURS THERE AFTER AS INDICATED
UNDISTURBED SAMPLE
VANE SHEAR TEST NUMBER SHOWN AT TOP INDICATES BLOWS PER 6" ON SAMPLER
CASING BLOWS PER FOOT

CASING I.D.= 3.5"
HAMMER WT. =300 LBS.
HAMMER FALL = 24"

SAMPLER I.D. = 1 3/8" 2 1/2"
HAMMER WT. = 140 LBS. 300 LBS.
HAMMER FALL = 30" 17"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
COBB.	COBBLES
MISC.	MISCELLANEOUS
BR.	BROWN

THIS SHEET NOT CORRECTED

SCALE: 1" = 6'

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE I-84 OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

BORINGS SHEET 1 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER D.B.V. DRAFTSMAN G.A.F. CHECKER D.B.V.
APPROVED J. F. Hayden DATE Dec. 26, 1979
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 3 of 58

NO.	DATE	DESCRIPTION

REVISIONS

42-216 42-225 383-01 410

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 3.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Andrew J. Cardinali

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-4
SHEET NO. 06.04

FORM NO. ENG. 15A ED. 1-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-(91)63	42-216	1983	I-84,I5	411	807

S-1

Recons. of Rte. I-84
Sta 91+52 50' Lt.
10/3-4/79

2.5" DIA. HOLLOW STEM AUGER BORING

N 338828
E 630343

Elevation	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 45.2	Topsoil				
EL. 42.2	Red Fine Sand, Some Silt, trace gravel (I-84 FILL)	1	1	1	S1
EL. 37.7	Brown Fine - Coarse Sand, Little Silt (I-84 FILL)	2	2	2	S2
EL. 28.2	Red Fine - Med. Sand, Trace Silt (I-84 FILL)	3	4	4	S3
		0	0	1	S4
		3	3	4	S4A
EL. 22.7	Red Silt, Little Clay, Little Fine Sand, Trace Fine - Coarse Gravel (I-84 FILL)	2	3	2	S5
EL. 16.2	Gray Brown Fine - Medium Sand, Little Silt (I-84 FILL)	3	3	3	S6
		8	2	1	S7
		2	2	3	S7A
EL. 9.7	Brown Fine Sand, Some Silt, Trace Fine - Coarse Gravel, Little Medium - Coarse Sand (I-84 FILL)				
		5	3	3	S8A
EL. 4.7	Brown Silt, Some Fine Sand				
		8	12	16	S9
EL. 0.00	Brown Fine - Coarse Sand, Trace Fine - Coarse Gravel, Trace Silt				
		10	12	16	S10
EL. -2.8	Gray Silt, Some Clay, Trace Fine Sand (Varved)				
		5	8	6	S11
EL. -11.3		2	5	6	S12

Bottom of Boring

0" Recovery

0.00

S-2

2.5" DIA. CASED BORING

Recons. of Rte. I-84
Sta. 93+06 37' Rt.
10/26/79

N 388762
E 630498

Elevation	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 46.0	Brown Fine - Coarse Sand, Trace Fine Gravel (I-84 FILL)	1	1	4	S1
EL. 41.0	Brown Red Silt and Fine - Medium Sand, Trace Gravel (I-84 FILL)	12	14	17	S2
		18	17	25	S3
		25	19	24	S4
		16	40	40	S5
		8	14	15	S6
EL. 15.5	Gray Fine - Medium Sand, Little Silt and Little Fine Gravel (I-84 FILL)	70	120		S7
		40	44	52	S8
EL. 7.0	Gray Brown Coarse - Fine Sand, Trace Silt, Trace Fine Gravel	15	19	19	S9
EL. 3.0	Gray Silt, Trace Fine Sand	10	10	10	S10
EL. -2.5		12	18	15	S11

Bottom of Boring

72 Hours

0.00

NOTES: S-2
Washed ahead of casing and then drove pipe from EL. 18.0 to EL. 1.0

S-3

4" DIA. CASED BORING

Recons. of Rte. I-84
Sta. 94+46 71' Rt.
10/9-14/79

N 338728
E 630638

Elevation	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 25.5	Topsoil				
EL. 25.2	Gray Silt, Trace Fine Sand, Trace Clay (I-84 FILL)	1	3	5	S1
EL. 22.5	Red Brown Fine - Coarse Sand, Some Fine - Coarse Gravel, Trace Silt (I-84 FILL)	2	6	6	S2
EL. 17.0	Brown Silt and Fine Sand, Little Medium - Coarse Sand, Little Fine Gravel (I-84 FILL)	32	41	50	S3
		10	14	17	S4
EL. 4.5	Gray Fine Sand and Silt, Trace Clay	15	16	16	S5
EL. 0.00		8	8	10	S6
EL. -2.5	Gray Silt, Little Fine Sand, Trace Clay (Varved)	4	5	5	S7
		5	5	5	S8
		4	5	5	S9
EL. -17.5	Gray Silt, Little Clay, Trace Fine Sand (Varved)	2	3	2	S10
		2	2	3	S11
EL. -32.0		1	2	3	S12

Bottom of Boring

0 Hrs.

0.00

NOTES: S-3
Used 2 1/2" sample spoon to EL. -4.5
Changed to 1 3/8" sample spoon at EL. -4.5
Installed observation well. Tip set at EL. -27.5

S-4

Recons. of Rte. I-84
Sta. 96+12 37.5' Lt.
10/12/79

2.5" DIA. CASED BORING

N 338835
E 630804

Elevation	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 47.0	Topsoil				
EL. 46.5	Red Fine Sand, Trace Silt, Trace Coarse Sand (I-84 FILL)	2	9	9	S1
		6	17	37	S2
EL. 42.0	Gray Fine Sand, Trace Silt, Trace Coarse Sand (I-84 FILL)	17	37	64	S3
EL. 37.0	Red Medium - Coarse Sand, Some Silt, Trace Gravel (I-84 FILL)	28	40	67	S4
		35	73	110	S5
		27	51	78	S6
		53	84	115	S7
		45	71	93	S8
EL. 12.0	Brown Medium - Coarse Sand, Trace Wood, Trace Gravel (I-84 FILL)	90	110	100	S9
EL. 7.0	Gray Fine Sand and Silt	20	27	20	S10
EL. 2.0	Gray Silt, Trace Fine Sand, Trace Clay (Varved)				S11
EL. 0.00		13	18	22	S12
EL. -9.5		16	20	23	S13

Bottom of Boring

48 Hrs.

0.00

NOTE: S-4
Installed observation well. Tip set at EL. -13.0

KEY

BORING NO.
LOCATION
DATE
SURFACE ELEVATION
COORDINATES
TYPE OF BORING
RECOVERED SAMPLE NUMBER
EL.
SOIL DESCRIPTION AND REMARKS
EL.
CASING BLOWS PER FOOT
S1
WATER LEVEL IN BORING AT THE TIME OF EXPLORATION OR HOURS THERE AFTER AS INDICATED
UNDISTURBED SAMPLE
VANE SHEAR TEST
NUMBER SHOWN AT TOP INDICATES BLOWS PER 6" ON SAMPLER

CASING I.D.= 2.5" OR 4.0"
HAMMER WT.= 300 LBS.
HAMMER FALL= 24"

SAMPLER I.D.= 1 3/4", 2 1/2"
HAMMER WT.= 140 LBS., 300 LBS.
HAMMER FALL= 30", 17"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
COBB.	COBBLES
MISC.	MISCELLANEOUS
BR.	BROWN

SCALE: 1" = 6'

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION
		REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84

INTERSTATE I-84 OVER

ROUTE 15 N.B. AND ROUTE 15 S.B.

BORINGS SHEET 2 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER D.B.V. DRAFTSMAN G.A.F. CHECKER D.B.V.
APPROVED J. R. Hayden DATE Dec. 26, 1979
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 4 OF 58

42-216 42-225 383-01 411

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 4.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-5
SHEET NO. 06.05

FORM NO. ENG. 156 ED. 1-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	EAST HARTFORD	I-84-4(906)	42-216	1983	I-84,I5	412	807

S-6 — 2.5" DIA. CASED BORING

Recons. Rte. I-84
Sta. 97+64 38' Rt.
10/29-30/79

N 338759
E 630955

Elevation	Blows	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 52.0	2, 11, 14, 18, 19	Brown Fine - Medium Sand, Trace Fine Gravel and Silt (I-84 FILL)	1	1	5	S1
EL. 46.0	8, 13, 19, 22, 32	Red Brown Silt, Little Trace Fine Sand, Gravel (I-84 FILL)	9	9	11	S2
EL. 40.5	24, 83, 78, 64, 90	Brown Silt, Some Fine - Medium Gravel, Some Fine - Medium Sand (I-84 FILL)	12	12	26	S3
	28, 32, 37, 40, 65		6	12	18	S4
	53, 63, 65, 235		4	12	12	S5
EL. 27.0	121, 50, 70, 115, 210	Brown Fine - Medium Sand, Little Silt, Trace Clay and Fine - Medium Gravel (I-84 FILL)	97	14	15	S6
	400, 72, 72, 430, 415		7	16	12	S7
EL. 17.0	560, 103, 221, 123, 197	Brown Silt, Some Medium Coarse Sand, Trace Gray Silt (I-84 FILL)	24	15	18	S8
EL. 12.0	98, 96, 114, 185	Gray Silt and Fine - Medium Gravel and Sand	7	8	8	S9
EL. 9.0	76, 94	Gray Silt, Little Trace of Organics, Fine - Medium Sand	5	12	10	S10
EL. 5.5		Bottom of Boring				

48 Hrs. ▼

BB-B1

Recons. of Rte. I-84
Sta. 98+00 37' Rt.
2/16-19/60

4.0" DIA. CASED BORING

N 338761
E 630991

Elevation	Blows	Description	0"-6"	6"-12"	12"-18"	Sample No.
EL. 9.5	1, 1, 2	Black Peat and Fresh Organic Material	1	1	1	1
EL. 6.5	3, 3	Gray Clayey Silt, Some Fine Sand	1	2	2	2
EL. 4.5	8, 10, 9	Brown Medium - Fine Sand, Some Silt, Trace Gravel				
EL. 1.5	12, 19, 34, 32, 31	Gray Clay and Silt	1	2	3	3
EL. 0.00	30, 29, 34, 33, 34		2	3	3	4
EL. -8.5	32, 32, 20, 22, 21	Gray Silty Clay (Varved Clay)				5 ◆ V1
	23, 22, 20, 21, 21		2	2	3	6
	22, 21, 25, 28, 27		2	2	4	7
	29, 26, 27, 37, 37		3	2	2	8
	38, 38, 29, 43, 34					9 ◆ V2
	35, 37, 38, 37, 39		2	2	3	10
	40, 41, 39, 40, 42		1	2	3	11
	41, 43, 42, 43, 44		2	2	3	12
	44, 45, 44, 47, 49					13 ◆
	48, 51, 47, 48, 49		2	3	4	14

48 Hrs. ▼

MATCH LINE

BB-B1

MATCH LINE

Elevation	Blows	Description				
EL. -72.0	50, 52, 69, 72, 71, 77, 78, 81, 83, 85, 84, 86, 81, 96, 102, 108, 110, 109, 120, 122, 127, 126, 122, 124, 128, 132, 133, 128, 132, 137, 135, 138	Gray and Red Silty Clay (Varved Clay)	2, 2, 3, 4, 4, 4, 4	4, 4, 4, 5, 5, 6, 6	5, 6, 5, 7, 6, 7, 7	15, 16, 17 ◆ V4, 18, 19, 20, 21
EL. -90.5		Bottom of Boring				

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

KEY

BORING NO. — TYPE OF BORING
LOCATION
DATE — COORDINATES
SURFACE ELEVATION

EL.
SOIL DESCRIPTION AND REMARKS
EL.
CASING BLOWS PER FOOT

S1 — RECOVERED SAMPLE NUMBER
▼ WATER LEVEL IN BORING AT THE TIME OF EXPLORATION OR HOURS THERE AFTER AS INDICATED
UNDISTURBED SAMPLE
◆ VANE SHEAR TEST NUMBER SHOWN AT TOP INDICATES BLOWS PER 6" ON SAMPLER

CASING I.D. = 2.5" or 4.0"
HAMMER WT. = 300 LBS.
HAMMER FALL = 24"

SAMPLER I.D. = 1 3/8"
HAMMER WT. = 140 LBS.
HAMMER FALL = 30"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
COBB.	COBBLES
MISC.	MISCELLANEOUS
BR.	BROWN

SCALE: 1" = 6'

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD
RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE I-84 OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

BORINGS SHEET 3 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER D.B.V. — DRAFTSMAN G.A.F. — CHECKER D.B.V.
APPROVED — DATE Dec. 26, 1979
STRUCTURE NO. 42-216-2 — BRIDGE LOG NO. — STRUCTURE SHEET NO. 5 of 58

42-216 42-225 383-01 412

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 5.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-6
SHEET NO. 06.06

FED. RD. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-5063	42-216	1983	I-84,15	413	807

S-9 — 2.5" DIA. CASED BORING

Recon. I-84
Sta. 99+17 26' Lt.
11/4/79

N 338826
E 631110

EL.	Description	0"-6"	6"-12"	12"-18"	SAMPLE NO.
52.1					
50.1	Dug out by hand				
	Red, Fine - Medium Sand and Silt, Trace Gravel (I-84 FILL)	1	2	2	S1
		7	11	12	S2
		12	22	27	S3
37.6	Red Fine - Coarse Sand, Some Silt and Gravel, Trace Cobbles (I-84 FILL)	12	39	25	S4
		14	29	142	S5
		100			0" Recovery
		26	32	80	S6
20.1	Gray Brown Fine - Coarse Sand, Some Silt and Gravel, Trace Cobbles (I-84 FILL)	34	47	86	S7
13.1	Red Fine - Coarse Sand, Little Gravel and Silt, Trace Cobbles (I-84 FILL)	24	19	24	S8
		7	19	20	S9
		23	27	28	S10
0.00					0.00
		13	17	18	S11
-4.9	Brown, Fine - Coarse Sand, Some Silt, Gravel	16	24	29	S12
-8.9	Bottom of Boring				

NOTE: S-9
Uncased boring from EL.-3.0

BB-B2 — 3.5" DIA. CASED BORING

Recons. of Rte. I-84
Sta. 99+42 41' Rt.
2/11-15/60

N 338755
E 631136

EL.	Description	0"-6"	6"-12"	12"-18"	SAMPLE NO.
11.4	Brown and Black Clayey Silt, Little Fine Sand and Organic Material	1	1	2	1
8.4	Light Brown Medium - Fine Sand, Little Silt	1	2	2	2
5.4	Gray Medium - Fine Sand, Little Silt & Organic Mater.	2	3	4	3
3.4	Gray Coarse - Medium Sand, Trace Silt	3	4	4	4
0.00	Gray Silty Clay (Varved Clay)	3	3	5	6
-0.6		4	5	5	7
		1	2	2	10
		2	2	3	11
		2	3	4	13

48 Hrs.
0.00

BB-B2
MATCH LINE

EL.	Description	0"-6"	6"-12"	12"-18"	SAMPLE NO.
-90.1	Bottom of Boring	2	4	4	14
		2	4	4	15
		2	3	4	16
		3	5	5	17
		3	5	6	18
		3	5	7	19
		4	6	8	20
		4	7	7	21

MATCH LINE

B-4 — 3.5" DIA. HOLLOW STEM AUGER BORING

Recons. Rte. I-84
Sta. 99+93 46' Rt.
11/3/79

N 338760
E 631185

EL.	Description	0"-6"	6"-12"	12"-18"	SAMPLE NO.
58.0					
	Red Brown Fine - Coarse Sand and Fine - Coarse Gravel, Little Silt (RTE 84 FILL)	1	2	4	S1
53.5	Red Brown Fine Sand, Little Silt, Trace Gravel (RTE 84 FILL)	8	21	24	S2
49.0	Red Brown Silt, Some Fine Coarse Sand, Little Gravel (RTE 84 FILL)	12	17	26	S3
		5	7	8	S4
41.0	Red Brown Fine - Coarse Sand, Some Silt, Little Fine - Coarse Gravel, Few Cobbles (RTE 84 FILL)	25	23	26	S5
		18	29	35	S6
29.0	Brown Fine - Coarse Sand, Some Silt, Little Fine Gravel, Trace Wood (RTE 84 FILL)	26	37	45	S7
25.0	Red Brown Silt, Some Fine - Coarse Sand, Little Fine - Coarse Gravel, Few Cobbles (RTE 84 FILL)	14	18	20	S8
		17	15	11	S9
		3	6	6	S10
7.0		4	12	37	S11
4.0	Gray Fine - Coarse Sand, Little Fine - Medium Gravel, Trace Silt	10	21	31	S12
0.00	Brown Fine - Coarse Sand, Little Fine - Medium Gravel, Trace Silt	5	11	15	S13
	Gray Silt, Little Clay, Trace Fine Sand (Varved)	5	7	8	S14
		4	6	6	S15
		3	4	6	S16
		2	4	4	S17
		1	3	4	S18
		2	3	3	S19
-43.5	Bottom of Boring	2	3	4	S20

UP 1, V1, UP 2, V1, UP 3

0.00

NOTE: B-4
Used 1 3/8" Sample Spoon

KEY

BORING NO.
LOCATION
DATE
SURFACE ELEVATION
TYPE OF BORING
COORDINATES

EL.
SOIL DESCRIPTION AND REMARKS
EL.

CASING BLOWS PER FOOT

RECOVERED SAMPLE NUMBER
WATER LEVEL IN BORING AT THE TIME OF EXPLORATION OR HOURS THERE AFTER AS INDICATED
UNDISTURBED SAMPLE
VANE SHEAR TEST NUMBER SHOWN AT TOP INDICATES BLOWS PER 6" ON SAMPLER

CASING I.D.= 2.5" or 3.5"
HAMMER WT.=300 LBS.
HAMMER FALL=24"

SAMPLER I.D.= 1 3/8"
HAMMER WT.=140 LBS.
HAMMER FALL=30"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
COBB.	COBBLES
MISC.	MISCELLANEOUS
BR.	BROWN

SCALE: 1" = 6'

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION
		REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD
RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE I-84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.
BORINGS SHEET 4 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER DBV | DRAFTSMAN GAF | CHECKER DBV
APPROVED J. F. Hayden | DATE Dec. 26, 1979
STRUCTURE NO. 42-216-2 | SHEET NO. 5 of 58

42-216 42-225 383-01 413

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 6.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Andrew J. Cardinali

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-7
SHEET NO. 06.07

FED. AID PROJ. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(906)	42-216	1983	I-84,15	414	807

BB-B3 — 3.5" DIA. CASED BORING

Recons. of Rte. I-84
Sta. 101+45 ℄
2/8-10/60

N 338795
E 631337

Elevation	Description
EL. 29.0	Brown Silt and Fine Sand, Trace Fine Gravel
EL. 25.0	Brown Clayey Silt, Some Fine Sand
EL. 22.0	Light Brown Medium - Fine Sand, Little Silt
EL. 14.0	Dark Brown Coarse - Medium Sand, Little Fine Gravel
EL. 11.0	Brown Clayey Silt, Some Fine Sand
EL. 7.0	Brown Fine Sand and Silt
EL. 1.0	Gray Clay and Silt
EL. 0.00	
EL. -13.0	Gray Silty Clay (Varved Clay)

Blows 0"-6"	Blows 6"-12"	Blows 12"-18"	Sample No.
4, 5, 5	1	2	3	1
8, 10, 17	4	8	11	2
57, 54, 50, 40, 41, 40, 38, 36	20	24	28	3
42, 42, 39, 44	9	11	11	4
50, 56, 61, 75	6	10	13	5
78, 77, 79, 96, 105, 179	11	17	21	6
90, 99, 122, 120, 101, 93, 74, 76, 74, 75, 75, 76, 82, 80	11	22	29	7
78, 79, 80, 79, 80, 89, 96, 143, 116, 128, 137, 142, 148, 128, 118, 120, 132, 116, 102, 90, 88, 84, 88, 104, 110, 132, 114, 116, 115, 122, 119, 123, 124, 121, 123, 126	3, 4, 5, 4, 6, 6, 8, 7, 3, 3, 5, 3, 4, 4	5, 5, 6, 6, 6, 7, 5, 4, 16	9, 10, 11, 12, 13, 14, 15, 16

25 Hrs. ▼

0.00

MATCH LINE BB-B3

S-13 — 3.5" DIA. HOLLOW STEM AUGER BORING

Recons. Rte. I-84
Sta. 102+03 25' Lt.
11/8/79

N 338820
E 631395

Elevation	Description
EL. 61.0	
EL. 60.1	Brown Silt and Fine - Medium Sand (RTE 84 FILL)
EL. 40.0	Red Brown Silt and Fine - Coarse Sand, Little Fine - Coarse Gravel, Few Cobbles (RTE 84 FILL)
EL. 30.5	Brown Silt, Some Fine - Coarse Sand, Little Fine - Medium Gravel (RTE 84 FILL)
EL. 18.0	Red Brown Silt and Fine - Coarse Sand, Little Fine - Coarse Gravel, Few Cobbles (RTE 84 FILL)
EL. 14.0	Gray Brown Fine - Medium Sand, Trace Fine - Medium Gravel, Trace Silt (RTE 84 FILL)
EL. 4.0	Brown Fine - Medium Sand, Trace Silt
EL. 0.00	Gray Silt, Little Fine Sand (Varved) and Clay
EL. -20.5	

Blows 0"-6"	Blows 6"-12"	Blows 12"-18"	Sample No.
2	3	7	S1
10	16	24	S2
12	13	27	S3
10	21	33	S4
19	21	39	S5
11	16	18	S6
35	29	37	S7
17	52	65	S8
27	49	53	S9
8	17	18	S10
6	7	9	S11
7	10	14	S12
6	8	8	S13
6	8	9	S14
4	6	6	UP 2 S15
3	5	5	S16
2	4	5	S17

48 Hrs ▼

0.00

Bottom of Boring

MATCH LINE BB-B3

Blows 0"-6"	Blows 6"-12"	Blows 12"-18"
125, 132, 143, 139, 146, 143, 145, 137, 142, 144, 143, 147, 143, 152, 148, 149, 151, 146, 157, 163, 159, 160	5, 6, 7, 8, 9, 7	7, 8, 8, 9, 11
		17, 18, 19, 20, 21

EL. -72.5

Bottom of Boring

S-17 — 2.5" DIA. CASED BORING

Reloc. I-84 E.B.
Sta. 102+50 13' Rt.
11/27/79

N 338780
E 631440

Elevation	Description
EL. 43.0	
EL. 42.5	Crushed Rock
	Red Fine - Coarse Sand, Little Gravel, Trace Silt (RTE 15 FILL)
EL. 28.5	Gray Silt and Brown Fine Sand (RTE 15 FILL)
EL. 24.5	Brown Fine - Coarse Sand, Trace Gravel and Silt (RTE 15 FILL)
EL. 4.0	Brown Fine Sand and Silt
EL. 0.00	Gray Silt and Clay, Trace Fine Sand (Varved)
EL. -8.5	

Blows 0"-6"	Blows 6"-12"	Blows 12"-18"	Sample No.
4	4	9	S1
2	4	3	S2
7	15	22	S3
6	6	7	S4
7	17	14	S5
26	36	38	S6
22	34	36	S7
17	28	32	S8
14	16	17	S9
5	6	6	S10
4	4	4	S11

48 Hrs. ▼

0.00

Bottom of Boring

KEY

BORING NO.
LOCATION
DATE
SURFACE ELEVATION
TYPE OF BORING
COORDINATES

EL.
SOIL DESCRIPTION AND REMARKS
EL.

CASING BLOWS PER FOOT

RECOVERED SAMPLE NUMBER
WATER LEVEL IN BORING AT THE TIME OF EXPLORATION OR HOURS THERE AFTER AS INDICATED
UNDISTURBED SAMPLE
VANE SHEAR TEST NUMBER SHOWN AT TOP INDICATES BLOWS PER 6" ON SAMPLER

CASING I.D.= 2.5" or 3.5"
HAMMER WT.=300 LBS.
HAMMER FALL=24"

SAMPLER I.D.= 1 3/8"
HAMMER WT.= 140 LBS.
HAMMER FALL=30"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
COBB.	COBBLES
MISC.	MISCELLANEOUS
BR.	BROWN

SCALE: 1"=6'

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

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84

INTERSTATE I-84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

BORINGS SHEET 5 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER DBV | DRAFTSMAN GAF | CHECKER DBV
APPROVED J. F. Hayden | DATE Dec. 26 1979
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 7 of 58

42-216 42-225 383-01 414

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 7.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-8
SHEET NO. 06.08

FHWA REGION	STATE	TOWN	FED AID PROJ NO	PROJ NO	YEAR	ROUTE NO	SHEET NO	TOTAL SHEETS
1	CONN	EAST HARTFORD	I-84-4-19063	42-216	1983	I-84,15	415	807

FORM NO ENG 156 ED - 75

B-5

Reloc. Rte. I-84
Sta. 103+70 52' Rt.
11/9/79

4" DIA. CASED BORING
N 338747
E 631560

EL. 41.2
EL. 40.9 — Topsoil
Red Brown Fine - Coarse Sand, Some Fine - Coarse Gravel, Little Silt, Few Cobbles (RTE 15 FILL)
EL. 13.2 — Gray Brown Fine - Coarse Sand, Trace Silt
EL. 4.7 — Gray Silt, Trace Fine Sand, Trace Clay (Varved)
EL. 0.00
EL. -18.8 — Gray Silt, Little Clay, Trace Fine Sand (Varved)
EL. -40.3 — Bottom of Boring

48 HRS. ▼ 0.00

SAMPLE NO.	0"-6"	6"-12"	12"-18"
S1	2	6	6
S2	3	3	4
S3	15	19	20
S4	9	16	12
S5	17	80	147
S6	8	14	18
S7	13	15	17
S8	8	16	17
S9	9	11	12
UP 1			
S10	3	7	7
S11	4	5	7
S12	3	4	4
S13	1	3	3
S14	2	3	4
UP 2			
S15	1	2	4
S16	2	3	4
S17	1	1	3

NOTE: B-5
Washed ahead in 5' intervals then drove pipe from EL.-13.8 to EL.-38.8
Used 1 3/8" Sample Spoon.

BB-B7

Recons. of Rte. I-84
Sta. 104+00 5' Lt.
2/10/60

2 3/8" DIA. CASED BORING
N 338805
E 631591

EL. 40.6 — Brown Coarse - Medium Sand, Some Gravel, Trace Silt
EL. 32.6 — Brown Coarse - Fine Sand, Little Silt and Gravel
EL. 27.6 — Redish Brown Medium - Fine Sand, Little Silt and Gravel
EL. 23.6 — Brown Medium - Fine Sand, Some Gravel, Little Silt
EL. 19.1 — Bottom of Boring

SAMPLE NO.	0"-6"	6"-12"	12"-18"
1	4	7	15
2	4	5	7
3	2	4	6
4	11	17	22
5	9	14	18

BB-B6

Recons. of Rte. I-84
Sta. 104+37 37' Rt.
2/12-13/60

2 3/8" DIA. CASED BORING
N 338762
E 631630

EL. 23.9
EL. 20.9 — Brown Fine - Coarse Sand
Brownish Red Fine - Coarse Sand, Little Gravel
EL. 7.9 — Gray Fine Sand and Silty Clay (Varved Clay)
EL. 0.00
EL. -57.6 — Bottom of Boring

48 Hrs. ▼ 0.00

SAMPLE NO.	0"-6"	6"-12"	12"-18"
1	1	1	2
2	11	14	13
3	5	7	9
4	7	8	11
5	3	4	5
6	5	6	7
7	5	6	6
8	4	4	5
9	3	3	4
10	2	3	3
11	1	2	3
12	3	3	4
13	2	3	3
14	1	2	2
15	2	3	3
16	3	4	5
17	5	5	6

KEY

BORING NO. — TYPE OF BORING
LOCATION
DATE — COORDINATES
SURFACE ELEVATION
EL. — SOIL DESCRIPTION AND REMARKS
EL.
CASING BLOWS PER FOOT
S1 — RECOVERED SAMPLE NUMBER
WATER LEVEL IN BORING AT THE TIME OF EXPLORATION OR HOURS THERE AFTER AS INDICATED
UNDISTURBED SAMPLE
VANE SHEAR TEST NUMBER SHOWN AT TOP INDICATES BLOWS PER 6" ON SAMPLER

CASING I.D.= 2 3/8" or 4.0"
HAMMER WT.=300 LBS.
HAMMER FALL=24"

SAMPLER I.D. = 1 3/8"
HAMMER WT. = 140 LBS.
HAMMER FALL = 30"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
COBB.	COBBLES
MISC.	MISCELLANEOUS
BR.	BROWN

THIS SHEET NOT CORRECTED

SCALE: 1" = 6'

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NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD
RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE I-84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.
BORINGS SHEET 6 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER D.B.V. — DRAFTSMAN G.A.F. — CHECKER D.B.V.
APPROVED — DATE Dec. 26, 1979
STRUCTURE NO. 42-216-2 — BRIDGE LOG NO — STRUCTURE SHEET NO. 8 OF 58

42-216 42-225 383-01 415

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 8.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-9
SHEET NO. 06.09

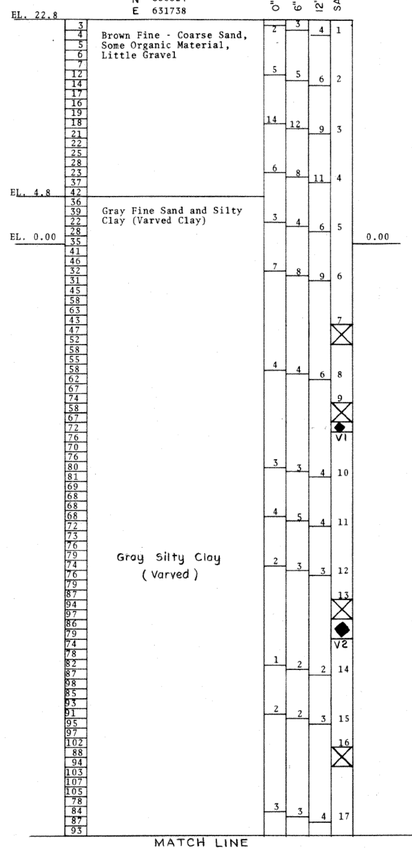
F.A.M.P. FEDER.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	EAST HARTFORD	I-84-4-(9)163	42-216	1983	I-84,I5	416	807

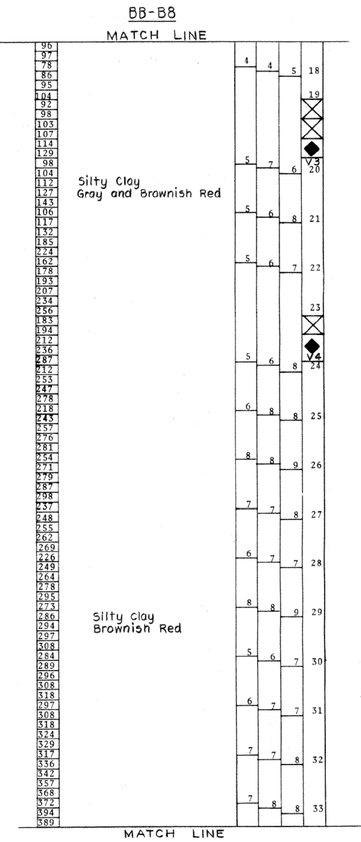
FORM NO. ENG. 15A ED. 11-75

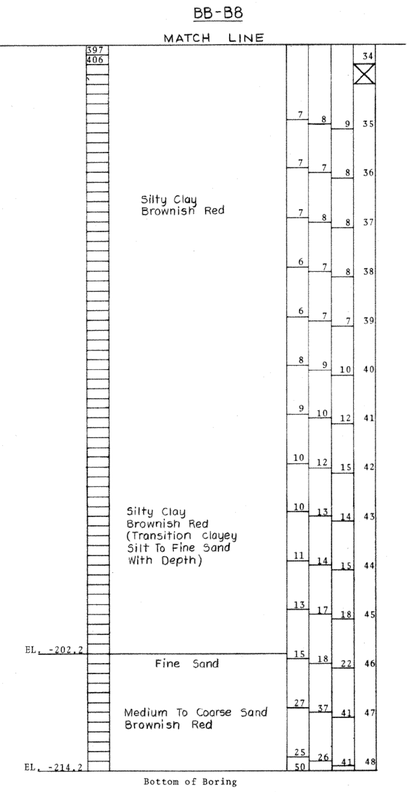
BB-B8

Recons. of Rte. I-84
Sta. 105+49 15' Lt.
2/15-25/60

3.5" DIA. CASED BORING
N 338824
E 631738

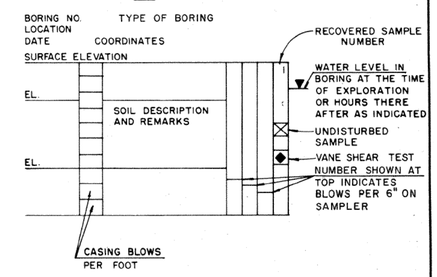






NOTES: BB-B8
Used 1 3/8" Sample Spoon
Uncased boring from EL.-142.2

KEY



TYPE OF BORING

CASING I.D.= 3.5"
HAMMER WT. =300 LBS.
HAMMER FALL=24"

SAMPLER I.D. = 1 3/8"
HAMMER WT. = 140 LBS.
HAMMER FALL = 30"

ABBREVIATIONS

C.	COARSE
F.	FINE
M.	MEDIUM
LIT.	LITTLE
TR.	TRACE
BOUL.	BOULDERS
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BR.	BROWN

SCALE: 1" = 6'

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NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84

INTERSTATE I-84 OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

BORINGS SHEET 7 OF 7

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER D.B.V. DRAFTSMAN G.A.F. CHECKER D.B.V.
APPROVED J. T. Hayden DATE Dec. 26, 1979
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 9 of 58

42-216 42-225 383-01 416

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 9.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

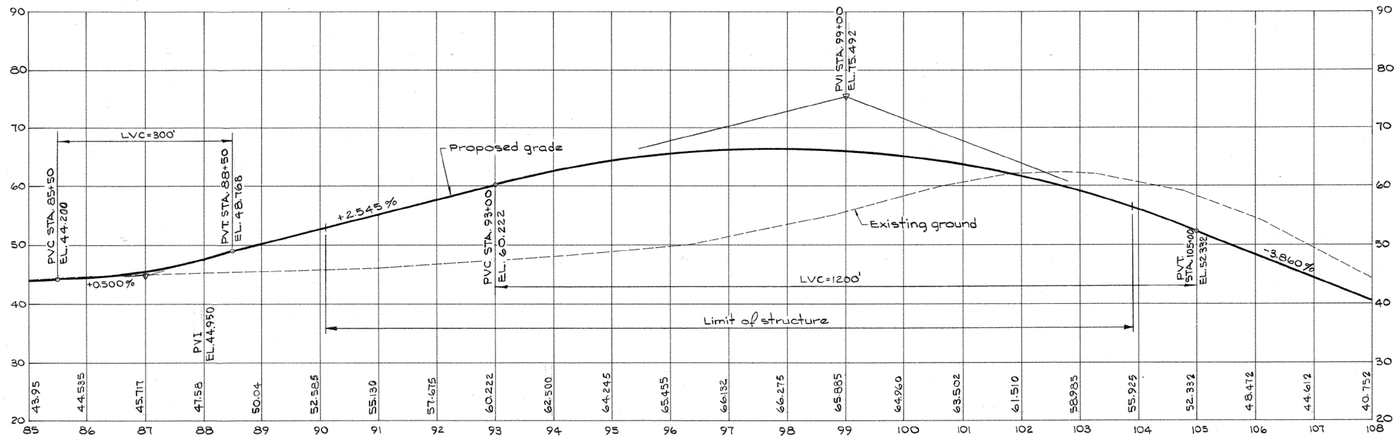
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-10**
SHEET NO. **06.10**

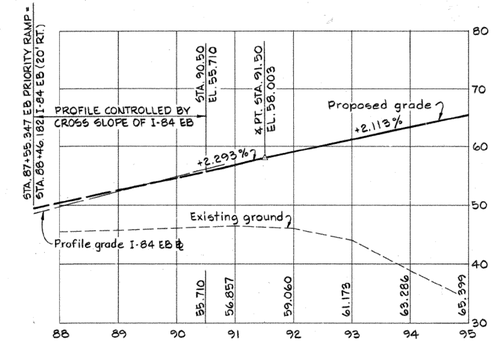
FORM NO. ENG. 159 ED. 1-78

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-(901)63	42-216	1983	I-84	417	807



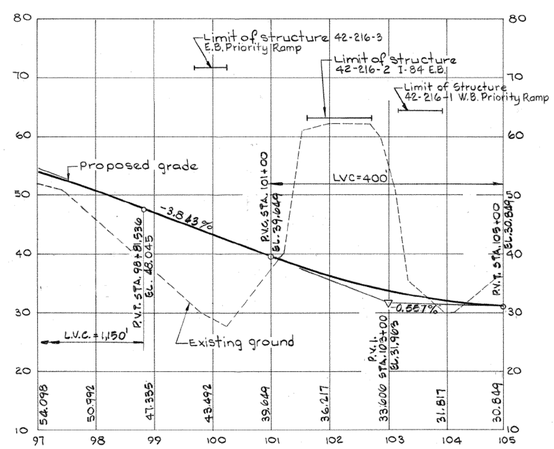
PROFILE-ROUTE I-84 E.B.

SCALE: HOR. 1"=100'
VERT. 1"=10'



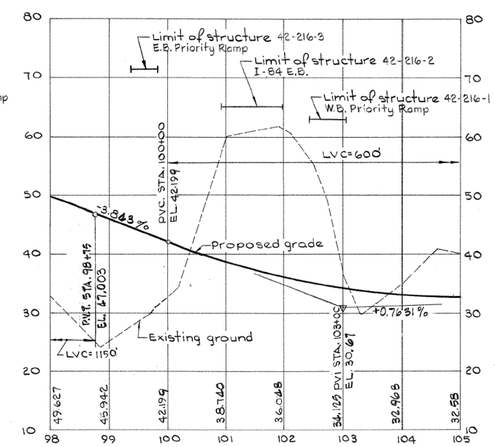
PROFILE - E.B. PRIORITY RAMP

SCALE: HOR. 1"=100'
VERT. 1"=10'



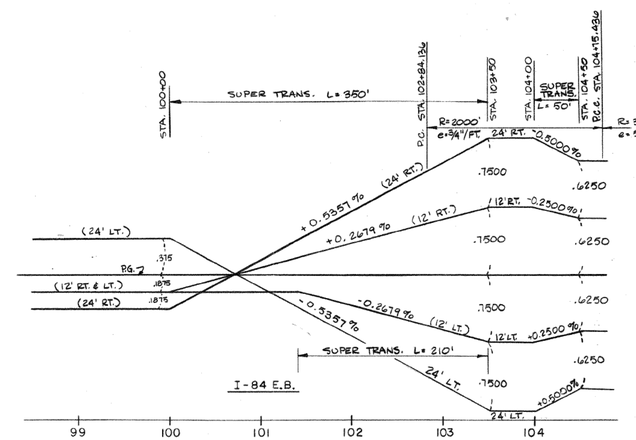
PROFILE-ROUTE 15 N.B.

SCALE: HOR. 1"=100'
VERT. 1"=10'



PROFILE-ROUTE 15 S.B.

SCALE: HOR. 1"=100'
VERT. 1"=10'



TRANSITION DIAGRAM - I-84 EB STA. 99+00 TO STA. 104+00

THIS SHEET NOT CORRECT

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NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PROFILES

ENGINEER HAYDEN HARDING AND BUCHANAN INC.
DESIGNER R.H.C. | DRAFTSMAN R.C.B. | CHECKER M.A.K.
APPROVED J. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 10 of 58

42-216 42-225 383-01 417

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 10.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

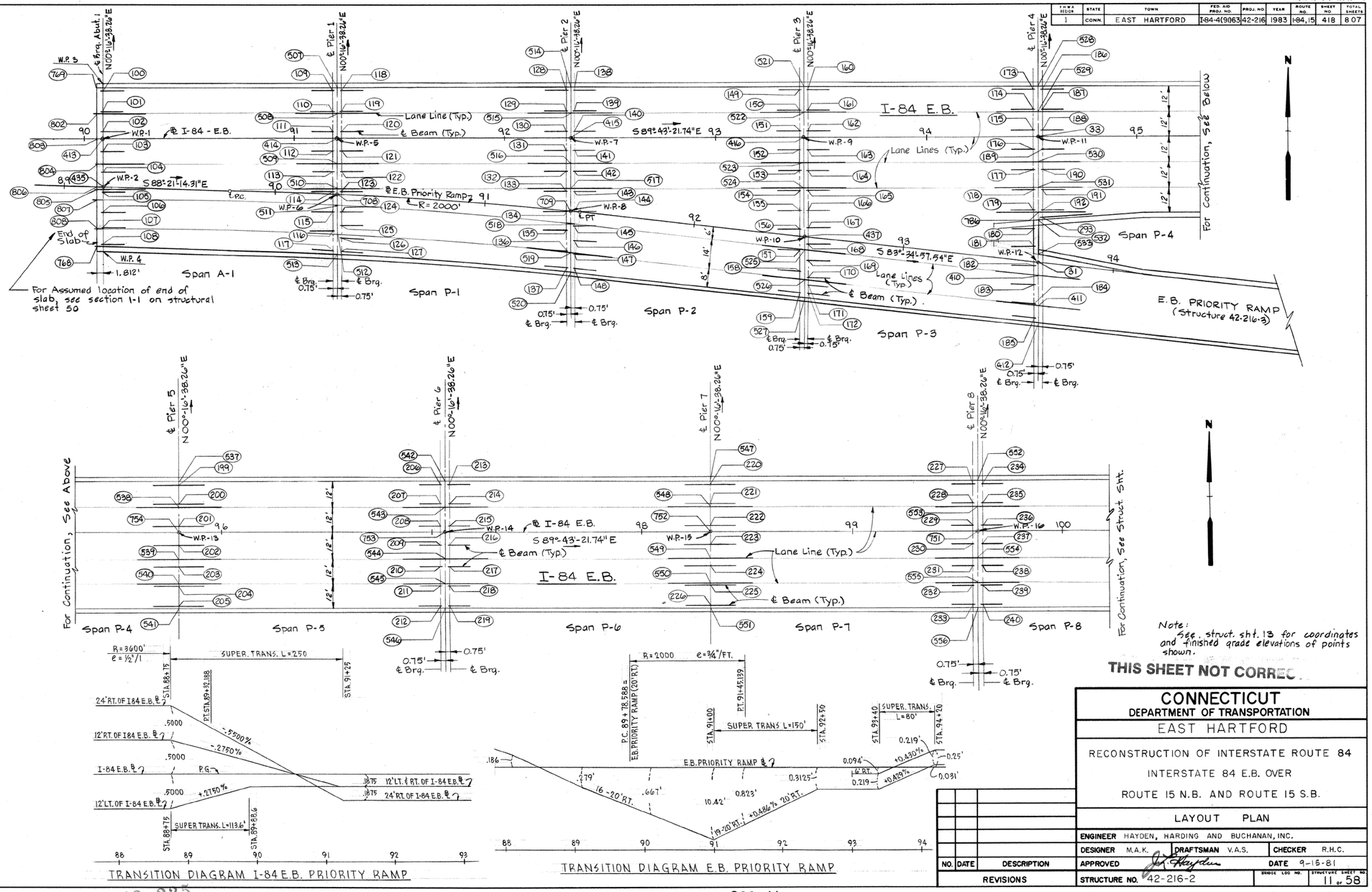
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-11**
SHEET NO. **06.11**

FORM NO. ENG. 158 ED. 1-76

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84, 15	418	807



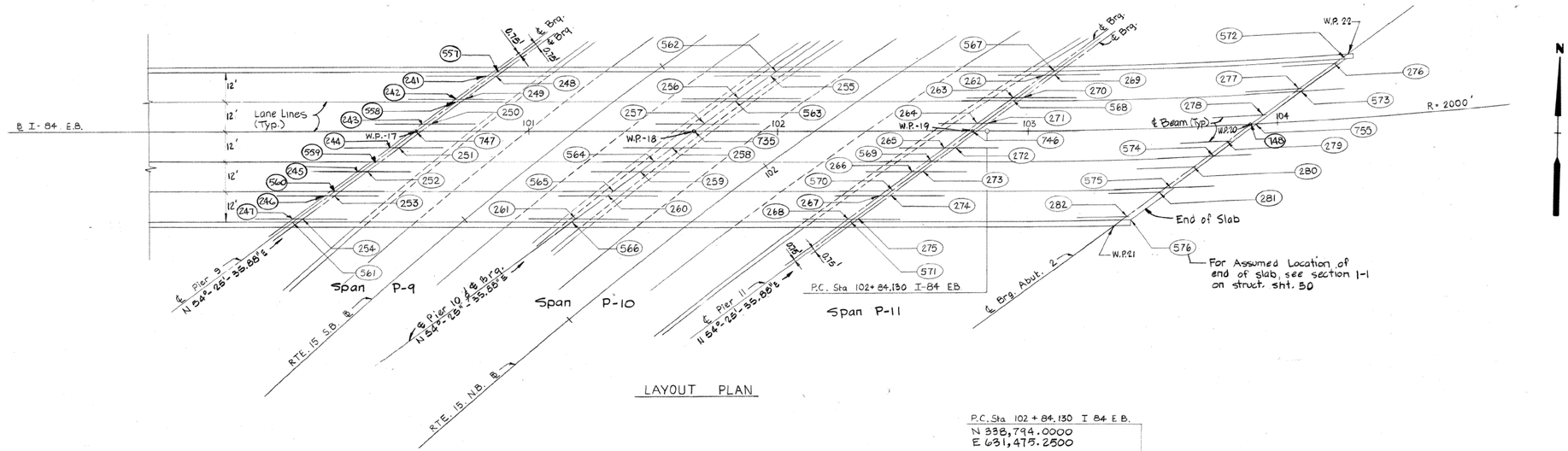
TRANSITION DIAGRAM I-84 E.B. PRIORITY RAMP

TRANSITION DIAGRAM E.B. PRIORITY RAMP

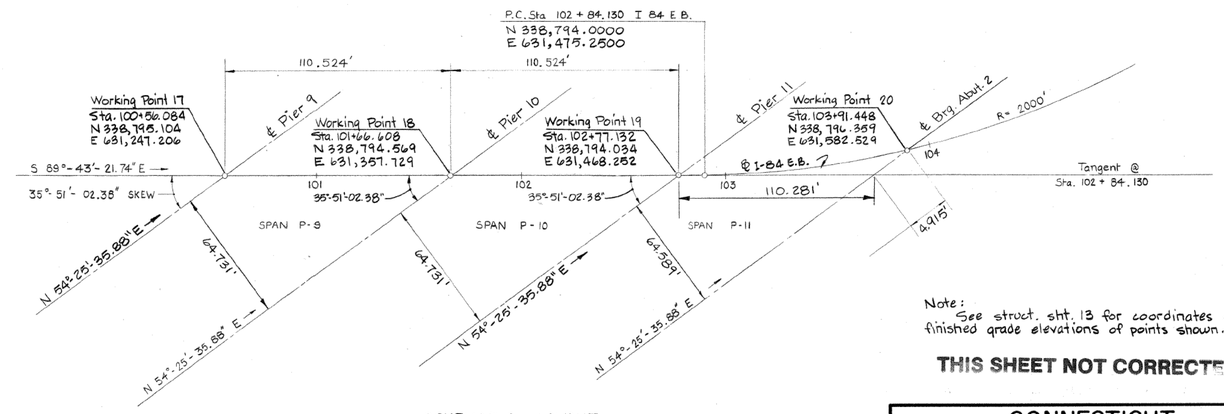
NO.	DATE	DESCRIPTION

FORM NO. ENG. 158 ED. 1-75

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84	419	807



LAYOUT PLAN



SCHEMATIC LAYOUT

Note:
See struct. sht. 13 for coordinates and finished grade elevations of points shown.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N B AND ROUTE 15 S B

LAYOUT PLAN

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER MAK | DRAFTSMAN BFL | CHECKER MAK
APPROVED J. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 12 of 58

42-216 42-225 383-01 419

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 12.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-13**
SHEET NO. **06.13**

FORM NO. ENG. 150 ED. -78								
FORM NO.	STATE	TOWN		FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD		I-84-4(91)63	42-216	1983	I-84,15	420	807

LOCATION		PT.	NORTH	EAST	ELEV.
ABUTMENT NUMBER 1	END OF SLAB (BACK OF BACKWALL)	769	338824.180	630198.439	52.293
		802	338812.180	630198.351	52.681
		803	338800.180	630198.322	52.768
		804	338788.180	630198.265	52.806
		806	338777.355	630198.212	52.927
		805	338776.180	630198.207	53.040
		807	338773.354	630198.193	52.977
		808	338761.551	630198.136	52.710
		768	338749.349	630198.077	52.444
	CENTERLINE OF BEARING	100	338822.671	630200.244	52.463
		101	338813.171	630200.198	52.611
		102	338803.671	630200.152	52.780
		103	338794.171	630200.106	52.880
		104	338784.671	630200.060	52.984
		105	338775.171	630200.014	53.054
		106	338765.672	630199.968	52.839
		107	338758.237	630199.932	52.671
		108	338750.803	630199.896	52.504
		435	338777.303	630200.024	53.064
NUMBER 1 PIER	CENTERLINE OF BEARING	109	338822.140	630309.930	55.255
		110	338812.640	630309.884	55.403
		111	338803.140	630309.838	55.552
		112	338793.640	630309.792	55.521
		113	338784.141	630309.746	55.397
		114	338774.641	630309.700	52.292
		115	338765.141	630309.654	54.856
		116	338756.070	630309.610	54.485
		117	338746.999	630309.566	54.114
	CENTERLINE OF PIER	507	338823.636	630310.687	55.250
		508	338811.637	630310.629	55.438
		614	338799.637	630310.571	55.625
		509	338787.637	630310.513	52.453
		510	338775.637	630310.455	52.281
		706	338763.490	630310.446	52.113
		511	338748.870	630310.422	52.027
		512	338736.220	630310.361	54.518
		513	338745.456	630310.309	54.083
	CENTERLINE OF BEARING	118	338822.133	630311.430	55.293
		119	338812.633	630311.384	55.441
		120	338803.133	630311.338	55.590
		121	338793.633	630311.292	55.557
		122	338784.133	630311.246	52.419
		123	338774.633	630311.200	55.264
		124	338765.133	630311.154	54.892
		125	338750.061	630311.174	54.549
		126	338752.989	630311.095	54.401
		127	338746.916	630311.066	54.155
NUMBER 2 PIER	CENTERLINE OF BEARING	128	338821.602	630421.116	58.085
		129	338812.102	630421.070	58.233
		130	338802.602	630421.024	58.382
		131	338793.102	630420.978	58.344
		132	338783.602	630420.932	58.104
		133	338774.103	630420.886	58.033
		134	338764.603	630420.840	57.777
		135	338755.669	630420.797	57.426
		136	338746.735	630420.754	57.077
		137	338737.802	630420.710	56.733
	CENTERLINE OF PIER	514	338823.098	630421.873	58.080
		515	338811.098	630421.815	58.268
		616	338799.098	630421.757	58.455
		516	338787.099	630421.699	58.268
		517	338775.099	630421.641	58.080
		716	338764.396	630421.589	57.730
		518	338758.379	630421.560	57.554
		519	338744.310	630421.492	57.008
		520	338736.210	630421.453	56.698
	CENTERLINE OF BEARING	138	338821.595	630422.616	58.123
		139	338812.095	630422.570	58.271
		140	338802.595	630422.524	58.420
		141	338793.095	630422.478	58.381
		142	338783.595	630422.432	58.232
		143	338774.095	630422.386	58.071
		144	338764.595	630422.340	57.816
		145	338757.855	630422.307	57.556
		146	338751.115	630422.275	57.294
		147	338744.375	630422.242	57.035
		148	338737.634	630422.209	56.778

LOCATION		PT.	NORTH	EAST	ELEV.
NUMBER 3 PIER	CENTERLINE OF BEARING	149	338821.064	630532.302	60.870
		150	338811.564	630532.256	61.018
		151	338802.064	630532.210	61.166
		152	338792.564	630532.164	61.315
		153	338783.064	630532.118	60.979
		154	338773.564	630532.072	60.815
		155	338764.065	630532.026	60.522
		156	338754.573	630531.979	60.227
		157	338744.682	630531.932	60.057
		158	338734.991	630531.885	59.929
		159	338725.300	630531.838	59.800
	CENTERLINE OF PIER	521	338822.560	630533.059	60.864
		522	338811.560	630533.001	61.051
		416	338798.561	630532.943	61.239
		523	338786.561	630532.885	61.051
		524	338774.561	630532.827	60.864
		417	338751.877	630532.717	60.470
		525	338745.828	630532.688	60.090
		526	338731.767	630532.620	59.903
		527	338723.711	630532.581	59.796
	CENTERLINE OF BEARING	160	338821.057	630533.802	60.904
		161	338811.557	630533.756	61.053
		162	338802.057	630533.710	61.201
		163	338792.557	630533.664	61.162
		164	338783.057	630533.618	61.014
		165	338773.567	630533.572	60.849
		166	338764.067	630533.526	60.558
		167	338757.570	630533.495	60.361
		168	338751.082	630533.463	60.176
		169	338746.594	630533.432	60.090
		170	338738.106	630533.400	60.004
		171	338731.619	630533.369	59.918
		172	338725.131	630533.338	59.832
NUMBER 4 PIER	CENTERLINE OF BEARING	173	338820.526	630643.488	63.126
		174	338811.026	630643.442	63.274
		175	338801.526	630643.396	63.423
		176	338792.026	630643.350	63.384
		177	338782.526	630643.304	63.235
		178	338773.026	630643.258	63.081
		179	338763.540	630643.213	62.918
		180	338755.071	630643.171	62.775
		181	338746.616	630643.130	62.634
		182	338738.161	630643.089	62.500
		183	338729.706	630643.049	62.391
		184	338721.251	630643.008	62.285
		185	338712.931	630642.967	62.181
	CENTERLINE OF PIER	528	338822.022	630644.245	63.115
		529	338818.022	630644.197	63.303
		33	338798.022	630644.129	63.490
		530	338786.023	630644.071	63.303
		531	338774.023	630644.013	63.115
		532	338758.023	630643.936	62.840
		533	338743.431	630643.865	62.598
		31	338739.373	630643.845	62.559
		410	338733.339	630643.816	62.493
		411	338719.258	630643.748	62.283
		412	338711.212	630643.709	62.182
	CENTERLINE OF BEARING	186	338820.518	630644.988	63.152
		187	338811.019	630644.942	63.300
		188	338801.519	630644.896	63.449
		189	338792.019	630644.850	63.410
		190	338782.519	630644.804	63.261
		191	338773.019	630644.758	63.111
		192	338763.519	630644.712	62.950
		293	338759.709	630644.694	62.885
NUMBER 5 PIER	CENTERLINE OF BEARING AND CENTERLINE OF PIER	537	338821.409	630770.832	64.876
		199	338813.906	630770.805	64.899
		200	338810.410	630770.779	65.048
		538	338809.410	630770.774	65.063
		201	338800.910	630770.733	65.196
		754	338797.410	630770.716	65.251
		202	338791.910	630770.687	65.152
		539	338785.410	630770.658	65.053
		203	338781.910	630770.641	65.009
		540	338773.410	630770.600	64.876
		204	338772.410	630770.595	64.860
		205	338762.910	630770.549	64.712
		541	338761.410	630770.542	64.688
NUMBER 6 PIER	CENTERLINE OF BEARING	206	338819.300	630896.662	65.801
		207	338809.801	630896.616	65.950
		208	338800.301	630896.570	66.098
		209	338790.801	630896.524	66.059
		210	338781.301	630896.478	65.911
		211	338771.801	630896.432	65.762
		212	338762.301	630896.386	65.614
	CENTERLINE OF PIER	542	338820.797	630897.419	65.781
		543	338808.797	630897.351	65.988
		753	338796.797	630897.303	66.156
		544	338784.797	630897.245	66.368
		545	338772.797	630897.187	65.781
		546	338760.798	630897.129	65.593
	CENTERLINE OF BEARING	213	338819.293	630898.162	65.807
		214	338809.793	630898.116	65.955
		215	338800.293	630898.070	66.100
		216	338790.793	630898.024	66.095
		217	338781.294	630897.978	65.916
		218	338771.794	630897.932	65.738
		219	338762.294	630897.886	65.620

LOCATION		PT.	NORTH	EAST	ELEV.
NUMBER 7 PIER	CENTERLINE OF BEARING AND CENTERLINE OF PIER	547	338820.184	631024.006	65.831
		220	338818.684	631023.999	65.854
		221	338803.184	631023.933	66.002
		548	338808.184	631023.948	66.018
		222	338799.684	631023.907	66.151
		752	338796.184	631023.890	66.206
		223	338790.185	631023.861	66.112
		549	338784.185	631023.832	66.018
		224	338780.685	631023.815	65.993
		550	338777.185	631023.774	65.831
		225	338771.185	631023.769	65.815
		226	338761.685	631023.723	65.667
		551	338769.530	631023.761	65.789
NUMBER 8 PIER	CENTERLINE OF BEARING	227	338818.075	631149.836	65.056
		228	338808.575	631149.790	65.204
		229	338799.075	631149.744	65.353
		230	338789.576	631149.698	65.314
		231	338780.076	631149.652	65.165
		232	338770.576	631149.606	65.017
		233	338761.076	631149.560	64.868
	CENTERLINE OF PIER	552	338819.572	631150.593	65.025
		553	338807.572	631150.535	65.213
		751	338795.572	631150.477	65.400
		554	338783.572	631150.419	65.213
		555	338771.572	631150.361	65.025
		556	338759.572	631150.303	64.838
	CENTERLINE OF BEARING	234	338818.068	631151.336	65.041
		235	338808.568	631151.290	65.190
		236	338799.068	631151.244	65.338
		237	338789.568	631151.198	65.299
		238	338780.068	631151.152	65.151
		239	338770.568	631151.106	65.002
		240	338761.069	631151.060	64.854
NUMBER 9 PIER	CENTERLINE OF BEARING	241	338817.459	631277.173	63.388
		242	338808.023	631263.980	63.748
		243	338798.586	631250.786	64.100
		244	338789.150	631237.593	64.417
		245	338779.714	631224.400	64.406
		246	338770.278	631211.206	64.427
		247	338760.841	631198.013	64.362
	CENTERLINE OF PIER	557	338818.943	631280.537	63.308
		558	338807.023	631263.871	63.708
		749	338795.104	631247.206	64.008
		559	338783.184	631230.541	64.366
		560	338771.265	631213.876	64.341
		561	338759.345	631197.210	64.341
	CENTERLINE OF BEARING	248	338817.447	631279.734	63.345
		249	338808.010	631266.541	63.708
		250	338798.574	631253.347	64.061
		251	338789.138	631240.154	64.383
		252	338779.701	631226.961	64.380
		253	338770.265	631213.767	64.407
		254	338760.829	631200.574	64.340
NUMBER 10 PIER	CENTERLINE OF BEARING AND CENTERLINE OF PIER	562	338818.408	631391.060	60.819
		252	338816.918	631388.977	60.919
		256	338807.482	631375.783	61.519
		563	338806.486	631374.394	61.678
		257	338798.045	631362.590	62.054
		735	338794.569	631357.729	62.235
		258	338788.609	631349.397	62.524
		564	338782.648	631341.064	62.787
		259	338779.173	631336.203	62.929
		565	338770.730	631324.399	63.236
		260	338769.737	631323.010	63.244
		261	338760.300	631309.816	63.072
		566	338758.810	631307.733	63.007

LOCATION		PT.	NORTH	EAST	ELEV.
NUMBER 11 PIER	CENTERLINE OF BEARING	262	338816.389	631498.219	57.396
		263	338806.953	631485.026	57.505
		264	338797.517	631471.832	57.946
		265	338788.080	631458.639	60.127
		266	338778.644	631445.446	60.840
		267	338769.208	631432.252	61.440
		268	338759.772	631419.059	61.311
	CENTERLINE OF PIER	567	338818.049	631501.829	57.386
		568	338805.977	631484.950	57.555
		746	338794.034	631468.252	59.809
		569	338782.114	631451.587	60.556
		570	338770.195	631434.922	61.398
		571	338758.275	631418.256	61.216
	CENTERLINE OF BEARING	269	338816.542	631501.011	57.495
		270	338806.978	631487.640	58.923
		271	338797.508	631474.334	59.278
		272	338788.068	631461.200	60.063
		273	338778.632	631448.007	60.784
		274	338769.195	631434.813	61.390
		275	338759.759	631421.620	61.262
ABUTMENT NUMBER 2	END OF SLAB (BACK OF BACKWALL)	276	338820.879	631616.812	53.719
		277	338811.441	631602.418	54.744
		278	338800.129	631587.799	55.809
		748	338796.539	631582.529	56.208
		279	338783.855	631573.547	56.884
		280	338779.862	631559.403	57.338
		281	338769.882	631545.511	58.839
		282	338760.015	631531.713	58.885
	CENTERLINE OF BEARING	572	338822.784	631622.680	53.453
		573	338809.557	631604.186	54.744
		755	338796.531	631585.974	56.094
		574	338783.693	631568.025	57.444
		575	338771.053	631550.325	58.761
		576	338758.568	631533.988	58.722

TABLE OF COORDINATES AND ELEVATIONS

NOTES:

1) ELEVATIONS GIVEN IN THESE TABLES ARE TO FINISHED GRADE (TOP OF WEARING SURFACE).
2) INFORMATION GIVEN FOR BEAMS PERTAINS TO THE INTERSECTION AT CENTER LINE OF BEAM AND CENTER LINE OF BEARING.
3) FOR LOCATION OF POINTS, SEE STRUCT. SHEETS 11 & 12.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

DECK ELEVATIONS

ENGINEER HAYDEN, HARDIN AND BUCHANAN, INC.
DESIGNER M.A.K. | DRAFTSMAN V.A.S. | CHECKER R.H.C.
APPROVED J. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOC NO. | STRUCTURE SHEET NO. 13 of 58

42-216 42-225 383-01 420

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 13.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-14
SHEET NO. 06.14

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(9)163	42-216	1983	I-84,I5	421	807

FORM NO. ENG. 158 (E) -78

℄ BRG. ABUT. I TO ℄ BRG. PIER I (SIMPLE SPAN)

SPAN A-I

BEAM A1-1 52.465 53.859 55.255	52.696 54.092	52.928 54.324	53.161 54.557	53.394 54.789	53.626 55.022
BEAM A1-2 52.611 54.007 55.403	52.844 54.240	53.077 54.473	53.309 54.705	53.542 54.938	53.775 55.171
BEAM A1-3 52.760 54.156 55.552	52.993 54.388	53.225 54.621	53.458 54.854	53.690 55.086	53.923 55.319
BEAM A1-4 52.880 54.201 55.521	53.100 54.421	53.320 54.641	53.540 54.861	53.761 55.081	53.981 55.301
BEAM A1-5 52.984 54.185 55.387	53.184 54.386	53.384 54.586	53.585 54.786	53.785 54.986	53.985 55.186
BEAM A1-6 53.054 54.140 55.235	53.235 54.321	53.416 54.504	53.596 54.688	53.777 54.870	53.958 55.052
BEAM A1-7 52.839 53.831 54.856	53.003 54.000	53.168 54.169	53.333 54.339	53.498 54.510	53.664 54.682
BEAM A1-8 52.671 53.564 54.485	52.819 53.716	52.967 53.868	53.115 54.021	53.264 54.175	53.413 54.329
BEAM A1-9 52.504 53.296 54.114	52.636 53.452	52.768 53.568	52.899 53.703	53.030 53.840	53.162 53.976

℄ BRG. PIER I TO ℄ BRG. PIER 2. (SIMPLE SPAN)

SPAN P-I

BEAM P1-1 55.293< 56.689 58.085	55.526 56.921	55.758 57.154	55.991 57.387	56.223 57.619	56.456 57.852
BEAM P1-2 55.441 56.837 58.233	55.674 57.070	55.907 57.302	56.139 57.535	56.372 57.768	56.605 58.000
BEAM P1-3 55.590 56.986 58.382	55.822 57.218	56.055 57.451	56.288 57.684	56.520 57.916	56.753 58.149
BEAM P1-4 55.557 56.947 58.342	55.783 57.179	56.016 57.412	56.249 57.645	56.481 57.877	56.714 58.110
BEAM P1-5 55.419 56.798 58.194	55.635 57.031	55.868 57.263	56.100 57.496	56.333 57.729	56.566 57.961
BEAM P1-6 55.264 56.637 58.033	55.474 56.869	55.713 57.102	55.944 57.334	56.174 57.567	56.406 57.800
BEAM P1-7 54.892 56.276 57.777	55.105 56.518	55.353 56.766	55.555 57.023	55.755 57.277	55.999 57.529
BEAM P1-8 54.646 55.957 57.426	54.844 56.078	55.074 56.377	55.148 56.641	55.202 56.904	55.339 57.166
BEAM P1-9 54.401 55.406 57.077	54.583 55.684	54.794 55.991	54.892 56.263	55.016 56.534	55.174 56.806
BEAM P1-10 54.155 55.181 56.733	54.321 55.363	54.513 55.606	54.670 55.886	54.834 56.167	55.003 56.450

℄ BRG. PIER 2 TO ℄ BRG. PIER 3 (SIMPLE SPAN)

SPAN P-2

BEAM P2-1 58.123 59.519 60.870	58.355 59.751	58.588 59.983	58.821 60.212	59.053 60.435	59.286 60.655
BEAM P2-2 58.271 59.667 61.018	58.504 59.900	58.737 60.132	58.969 60.360	59.202 60.584	59.434 60.803
BEAM P2-3 58.420 59.816 61.166	58.652 60.048	58.885 60.280	59.118 60.509	59.350 60.732	59.583 60.952
BEAM P2-4 58.381 59.776 61.127	58.613 60.009	58.846 60.241	59.079 60.469	59.311 60.693	59.544 60.913
BEAM P2-5 58.232 59.628 60.979	58.465 59.861	58.697 60.093	58.930 60.321	59.163 60.545	59.395 60.764
BEAM P2-6 58.071 59.467 60.815	58.312 59.698	58.543 59.925	58.774 60.147	59.005 60.370	59.236 60.592
BEAM P2-7 57.918 59.128 60.523	58.052 59.405	58.276 59.650	58.500 59.854	58.725 60.077	58.951 60.301
BEAM P2-8 57.556 58.936 60.227	57.805 59.152	58.038 59.365	58.267 59.577	58.493 59.794	58.716 60.011
BEAM P2-9 57.294 58.723 60.057	57.548 58.952	57.788 59.178	58.025 59.402	58.260 59.624	58.493 59.844
BEAM P2-10 57.035 58.514 59.929	57.294 58.755	57.540 58.995	57.785 59.234	58.029 59.471	58.272 59.708
BEAM P2-11 56.778 58.309 59.800	57.042 58.562	57.295 58.816	57.548 59.069	57.802 59.323	58.055 59.576

℄ BRG. PIER 3 TO ℄ BRG. PIER 4 (SIMPLE SPAN)

SPAN P-3

BEAM P3-1 60.904 62.095 63.126	61.114 62.278	61.319 62.457	61.520 62.631	61.716 62.800	61.908 62.965
BEAM P3-2 61.053 62.246 63.274	61.262 62.427	61.468 62.605	61.668 62.779	61.865 62.949	62.056 63.114
BEAM P3-3 61.201 62.392 63.423	61.411 62.575	61.616 62.754	61.817 62.928	62.013 63.097	62.205 63.262
BEAM P3-4 61.162 62.353 63.384	61.372 62.536	61.577 62.715	61.778 62.888	61.974 63.058	62.166 63.223
BEAM P3-5 61.014 62.205 63.235	61.223 62.388	61.429 62.566	61.629 62.740	61.826 62.910	62.017 63.075
BEAM P3-6 60.849 62.042 63.081	61.050 62.221	61.251 62.400	61.452 62.579	61.653 62.755	61.854 62.918
BEAM P3-7 60.558 61.802 62.918	60.769 61.994	60.979 62.186	61.188 62.376	61.396 62.563	61.604 62.741
BEAM P3-8 60.361 61.615 62.775	60.573 61.814	60.785 62.012	60.995 62.208	61.205 62.401	61.413 62.588
BEAM P3-9 60.176 61.430 62.634	60.379 61.635	60.591 61.839	60.803 62.042	61.014 62.241	61.224 62.438
BEAM P3-10 60.080 61.295 62.500	60.291 61.496	60.492 61.696	60.692 61.897	60.893 62.098	61.094 62.299
BEAM P3-11 60.004 61.196 62.391	60.203 61.394	60.401 61.593	60.600 61.791	60.798 61.990	60.997 62.189
BEAM P3-12 59.918 61.096 62.285	60.114 61.293	60.311 61.489	60.507 61.686	60.704 61.882	60.900 62.079
BEAM P3-13 59.832 60.998 62.181	60.026 61.193	60.221 61.387	60.415 61.581	60.609 61.776	60.804 61.970

℄ BRG. PIER 4 TO ℄ BRG. PIER 6 (2 SPAN CONTINUOUS)

SPAN P-4

BEAM P4-1 63.152 64.004 64.701	63.305 64.151 64.802	63.453 64.254 64.899	63.597 64.372	63.737 64.486	63.873 64.596
BEAM P4-2 63.300 64.153 64.850	63.453 64.280 64.951	63.602 64.402 65.048	63.746 64.521	63.886 64.635	64.021 64.744
BEAM P4-3 63.449 64.301 64.998	63.601 64.428 65.099	63.750 64.551 65.196	63.894 64.669	64.034 64.783	64.170 64.893
BEAM P4-4 63.410 64.262 64.959	63.562 64.389 65.060	63.711 64.512 65.157	63.855 64.630	63.995 64.744	64.131 64.854
BEAM P4-5 63.261 64.114 64.811	63.414 64.241 64.912	63.563 64.363 65.009	63.707 64.482	63.847 64.596	63.982 64.705
BEAM P4-6 63.111 63.965 64.662	63.264 64.092 64.763	63.413 64.215 64.860	63.558 64.333	63.698 64.447	63.834 64.557
BEAM P4-7 62.950 63.817 64.514	63.105 63.944 64.615	63.256 64.066 64.712	63.403 64.185	63.545 64.299	63.684 64.408
BEAM P4-8 62.885 63.724	63.034	63.179	63.320	63.458	63.593

SPAN P-5

BEAM P5-1 64.899 65.389 65.724	64.992 65.496 65.765	65.080 65.518 65.801	65.164 65.576	65.243 65.630	65.318 65.679
BEAM P5-2 65.048 65.538 65.873	65.140 65.604 65.913	65.228 65.662 65.950	65.312 65.725	65.392 65.778	65.467 65.828
BEAM P5-3 65.196 65.686 66.021	65.289 65.723 66.062	65.377 65.815 66.098	65.461 65.873	65.540 65.927	65.615 65.976
BEAM P5-4 65.157 65.647 65.982	65.250 65.714 66.023	65.338 65.776 66.059	65.422 65.834	65.501 65.888	65.576 65.937
BEAM P5-5 65.009 65.499 65.834	65.101 65.565 65.874	65.189 65.628 65.911	65.273 65.686	65.353 65.739	65.428 65.789
BEAM P5-6 64.860 65.350 65.685	64.953 65.417 65.726	65.041 65.479 65.762	65.125 65.537	65.204 65.591	65.279 65.640
BEAM P5-7 64.712 65.202 65.537	64.804 65.268 65.578	64.892 65.331 65.614	64.976 65.389	65.056 65.442	65.131 65.492

TABLES OF FINISHED BRIDGE DECK ELEVATIONS

THIS SHEET NOT CORRECTED

NOTES:

ELEVATIONS GIVEN IN THESE TABLES ARE FINISHED GRADE (TOP OF WEARING SURFACE).

ELEVATIONS ARE GIVEN IN EQUAL INCREMENTS ALONG CENTER LINES OF BEAMS.

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

DECK ELEVATIONS

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M.A.K. DRAFTSMAN V.A.S. CHECKER R.H.C.
APPROVED J.R. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 14 of 58

42-216 42-225 383-01 421

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 14.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-15
SHEET NO. 06.15

FORM NO.	STATE	TOWN	FED AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	EAST HARTFORD	I84-4(91)63	42-216	1983	I-84,15	422	807

℄ BRG. PIER 6 TO ℄ BRG. PIER 8 (2 SPAN CONTINUOUS)

SPAN P-6

BEAM P6-1					
65.807	65.839	65.866	65.888	65.907	65.921
65.931	65.936	65.937	65.934	65.927	65.915
65.899	65.879	65.854			
BEAM P6-2					
65.956	65.987	66.014	66.037	66.055	66.069
66.079	66.085	66.086	66.083	66.075	66.064
66.048	66.027	66.002			
BEAM P6-3					
66.104	66.135	66.162	66.185	66.204	66.218
66.228	66.233	66.234	66.231	66.224	66.212
66.196	66.176	66.151			
BEAM P6-4					
66.065	66.096	66.123	66.146	66.165	66.179
66.189	66.194	66.195	66.192	66.185	66.173
66.157	66.137	66.112			
BEAM P6-5					
65.916	65.948	65.975	65.998	66.016	66.030
66.040	66.046	66.047	66.044	66.036	66.025
66.008	65.988	65.963			
BEAM P6-6					
65.768	65.799	65.827	65.849	65.868	65.882
65.892	65.897	65.898	65.895	65.888	65.876
65.860	65.840	65.815			
BEAM P6-7					
65.620	65.651	65.678	65.701	65.719	65.733
65.743	65.749	65.750	65.747	65.739	65.728
65.712	65.691	65.667			

SPAN P-7

BEAM P7-1					
65.854	65.825	65.792	65.754	65.712	65.666
65.615	65.561	65.501	65.438	65.370	65.298
65.222	65.141	65.056			
BEAM P7-2					
66.002	65.974	65.940	65.903	65.861	65.814
65.764	65.709	65.650	65.586	65.519	65.446
65.370	65.289	65.204			
BEAM P7-3					
66.151	66.122	66.089	66.051	66.009	65.963
65.912	65.857	65.798	65.735	65.667	65.595
65.518	65.438	65.353			
BEAM P7-4					
66.112	66.083	66.050	66.012	65.970	65.924
65.873	65.818	65.759	65.696	65.628	65.556
65.479	65.399	65.314			
BEAM P7-5					
65.963	65.934	65.901	65.864	65.822	65.775
65.725	65.670	65.611	65.547	65.479	65.407
65.331	65.250	65.165			
BEAM P7-6					
65.815	65.786	65.753	65.715	65.673	65.627
65.576	65.521	65.462	65.399	65.331	65.259
65.182	65.102	65.017			
BEAM P7-7					
65.667	65.638	65.604	65.567	65.525	65.478
65.428	65.373	65.314	65.250	65.183	65.110
65.034	64.953	64.868			

℄ BRG. PIER 8 TO ℄ BRG. PIER 9 (S. S.)

SPAN P-8

BEAM P8-1					
65.041	64.951	64.857	64.758	64.655	64.548
64.436	64.320	64.200	64.075	63.946	63.813
63.676	63.534	63.388			
BEAM P8-2					
65.190	65.095	64.996	64.893	64.784	64.671
64.554	64.431	64.304	64.172	64.036	63.894
63.748					
BEAM P8-3					
65.338	65.238	65.133	65.022	64.906	64.785
64.659	64.527	64.390	64.247	64.100	
BEAM P8-4					
65.299	65.212	65.122	65.027	64.929	64.831
64.736	64.637	64.534	64.428	64.317	
BEAM P8-5					
65.151	65.059	64.962	64.862	64.756	64.667
64.585	64.498	64.406			
BEAM P8-6					
65.002	64.927	64.849	64.768	64.684	64.597
64.535	64.482	64.427			
BEAM P8-7					
64.854	64.775	64.694	64.609	64.521	64.430
64.362					

SPAN CONTINUOUS (2 SPAN)

SPAN P-9

BEAM P9-1					
63.345	63.191	63.033	62.871	62.704	62.533
62.341	62.115	61.885	61.650	61.411	61.167
60.919					
BEAM P9-2					
63.708	63.560	63.409	63.253	63.092	62.927
62.758	62.584	62.382	62.173	61.959	61.741
61.519					
BEAM P9-3					
64.061	63.920	63.775	63.625	63.471	63.312
63.149	62.982	62.810	62.631	62.443	62.251
62.054					
BEAM P9-4					
64.283	64.161	64.034	63.903	63.768	63.628
63.483	63.334	63.181	63.023	62.861	62.695
62.524					
BEAM P9-5					
64.380	64.283	64.182	64.077	63.967	63.853
63.734	63.611	63.483	63.351	63.215	63.074
62.929					
BEAM P9-6					
64.407	64.335	64.257	64.176	64.090	64.000
63.905	63.806	63.702	63.594	63.482	63.365
63.244					
BEAM P9-7					
64.340	64.259	64.173	64.083	63.988	63.889
63.786	63.678	63.566	63.449	63.328	63.202
63.072					

SPAN P-10

BEAM P10-1					
60.918	60.667	60.410	60.149	59.883	59.613
59.338	59.059	58.776	58.488	58.194	57.896
57.596					
BEAM P10-2					
61.519	61.292	61.061	60.825	60.585	60.341
60.092	59.839	59.581	59.319	59.052	58.781
58.505					
BEAM P10-3					
62.064	61.853	61.637	61.417	61.223	61.004
60.781	60.553	60.321	60.085	59.844	59.599
59.349					
BEAM P10-4					
62.524	62.348	62.169	61.984	61.796	61.603
61.405	61.203	60.997	60.786	60.571	60.351
60.127					
BEAM P10-5					
62.929	62.779	62.625	62.466	62.303	62.136
61.964	61.788	61.607	61.422	61.233	61.039
60.840					
BEAM P10-6					
63.244	63.118	62.988	62.853	62.714	62.570
62.422	62.269	62.112	61.951	61.785	61.615
61.440					
BEAM P10-7					
63.072	62.938	62.799	62.666	62.533	62.396
62.254	62.108	61.957	61.802	61.643	61.479

℄ BRG. PIER 11 TO ℄ BRG. ABUT. 2 (SIMPLE SPAN)

BEAM P11-1					
57.495	57.165	56.830	56.491	56.146	55.840
55.534	55.223	54.907	54.586	54.296	54.010
53.719					
BEAM P11-2					
58.523	58.126	57.824	57.517	57.205	56.888
56.579	56.280	55.976	55.668	55.354	55.042
54.744					
BEAM P11-3					
59.278	59.012	58.742	58.466	58.186	57.901
57.611	57.317	57.025	56.728	56.426	56.120
55.809					
BEAM P11-4					
60.063	59.827	59.586	59.341	59.092	58.837
58.578	58.315	58.047	57.768	57.478	57.183
56.884					
BEAM P11-5					
60.784	60.576	60.363	60.145	59.925	59.700
59.471	59.237	58.999	58.756	58.508	58.226
57.938					
BEAM P11-6					
61.380	61.207	61.020	60.828	60.631	60.432
60.229	60.022	59.810	59.594	59.373	59.148
58.899					
BEAM P11-7					
61.262	61.087	60.907	60.723	60.534	60.341
60.143	59.945	59.742	59.534	59.322	59.106
58.885					

NOTE
ELEVATIONS GIVEN IN THIS TABLE ARE FINISHED GRADE (TOP OF WEARING SURFACE).
ELEVATIONS ARE GIVEN IN EQUAL INCREMENTS ALONG CENTER LINE OF BEAMS

THIS SHEET NOT CORRECTED

TABLES OF FINISHED BRIDGE DECK ELEVATIONS

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

DECK ELEVATIONS

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M.A.K. DRAFTSMAN V.A.S. CHECKER R.H.C.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 15 OF 58

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 15.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

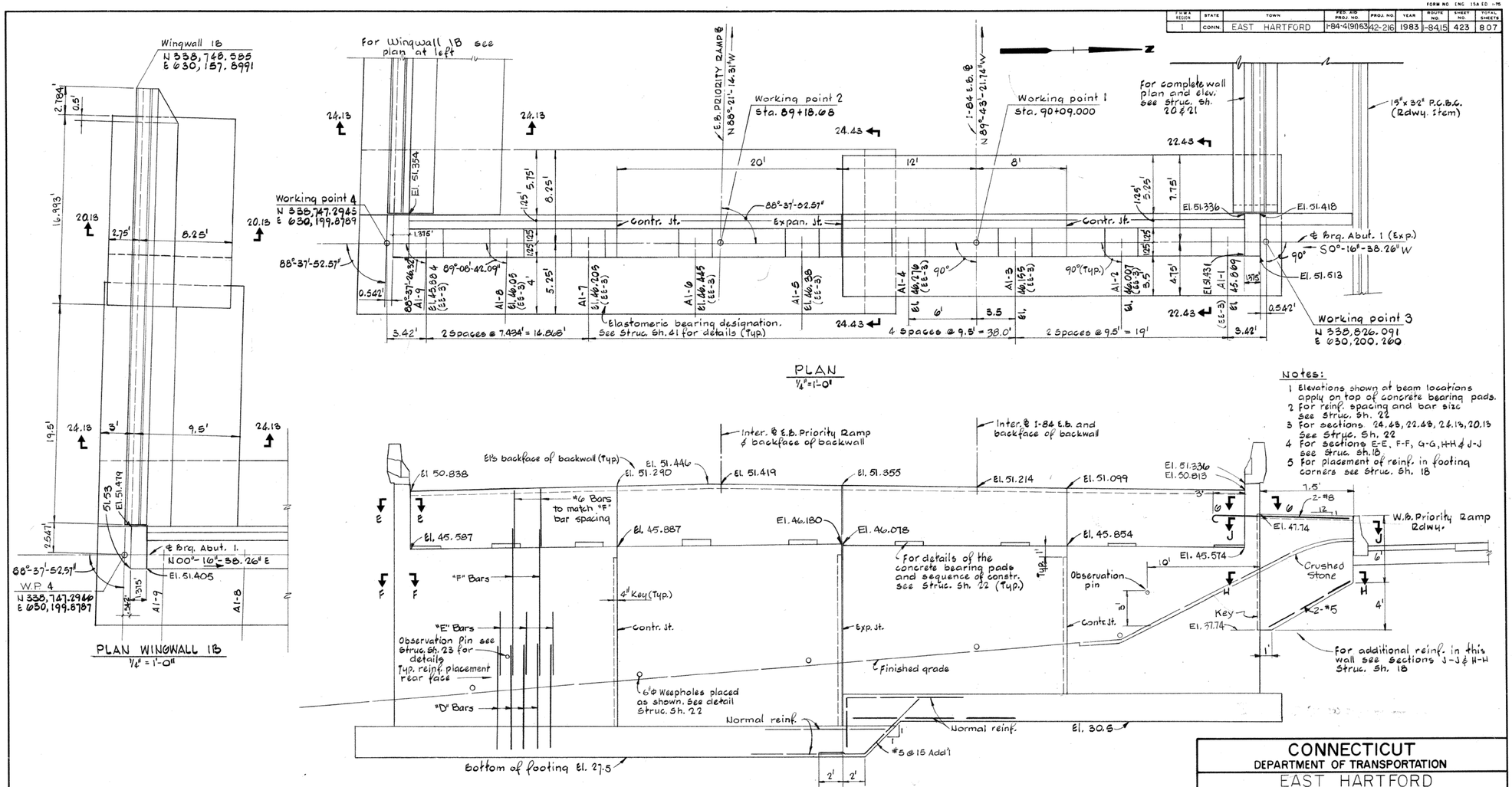
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-16
SHEET NO. 06.16

FORM NO. ENG. 15A ED. 1-75

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	423	807



Notes:

1. Elevations shown at beam locations apply on top of concrete bearing pads.
2. For reinf. spacing and bar size see struc. sh. 22
3. For sections 24.43, 22.43, 24.13, 20.13 see struc. sh. 22
4. For sections E-E, F-F, G-G, H-H & J-J see struc. sh. 18
5. For placement of reinf. in footing corners see struc. sh. 18

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

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

ABUTMENT NO. 1

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER R.H.L. | DRAFTSMAN D.A.M. | CHECKER M.A.K.
APPROVED J. C. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOC NO. | STRUCTURE SHEET NO. 16 of 58

42-216 42-225 383-01 423

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 16.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

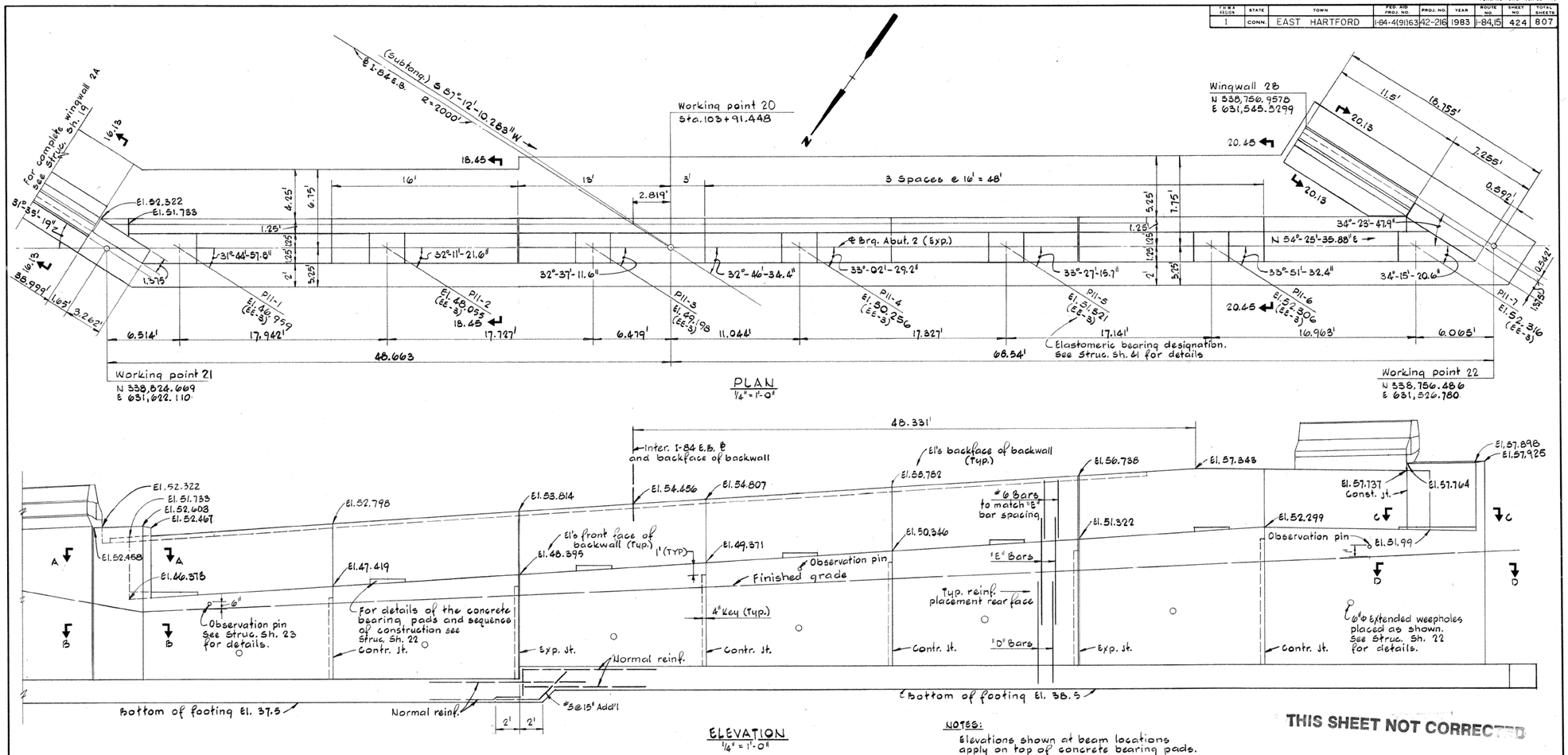
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-17**
SHEET NO. **06.17**

FORM NO. ENG. 15A ED. 1-75

F.A.H.W. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84,15	424	807



NOTES:

Elevations shown at beam locations apply on top of concrete bearing pads.

℄'s at beam locations are to a chord between abutment 2 and pier 11.

For reinforcement spacing and bar size see Struct. Sh. 22

For sections 20.45, 18.45, 16.13 & 20.13 see Struct Sh. 22

For sections A-A, B-B, C-C and D-D see Struct. Sh. 18

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

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

ABUTMENT NO. 2

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER RHC | DRAFTSMAN DAM | CHECKER MAK
APPROVED J. J. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 17 of 58

42-216 42-225 383-01 424

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 17.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

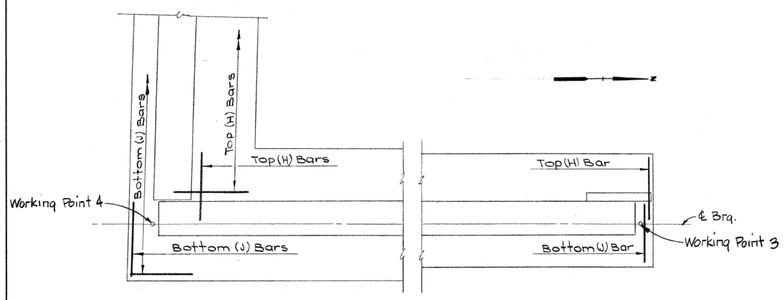
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

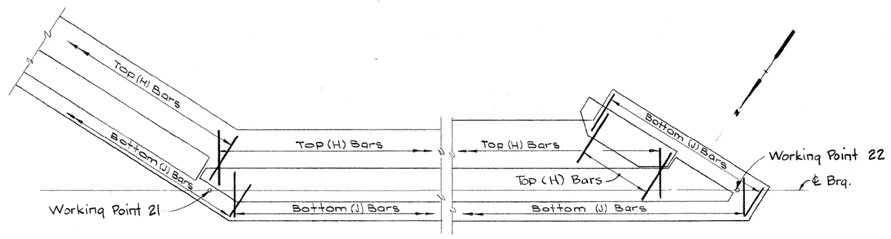
PROJECT NO. 0042-0325
DRAWING NO. E-18
SHEET NO. 06.18

FORM NO. ENG. 158 ED. 1-78

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	425	807

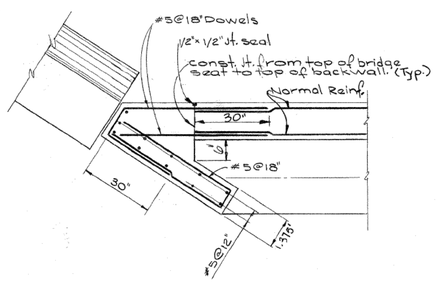


ABUTMENT #1

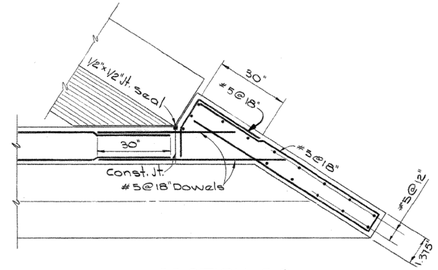


ABUTMENT #2

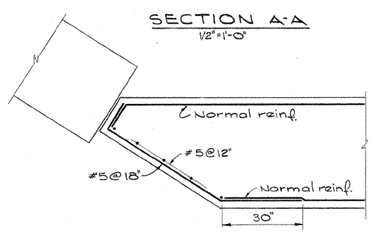
TYPICAL PLACEMENT OF REINF. IN FOOTING CORNERS



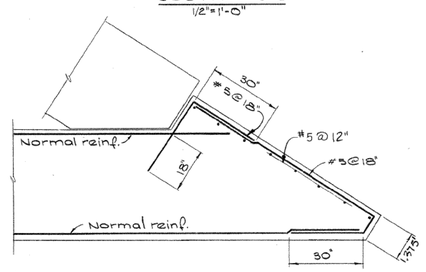
SECTION A-A
1/2"=1'-0"



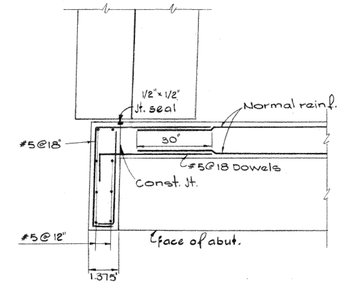
SECTION C-C
1/2"=1'-0"



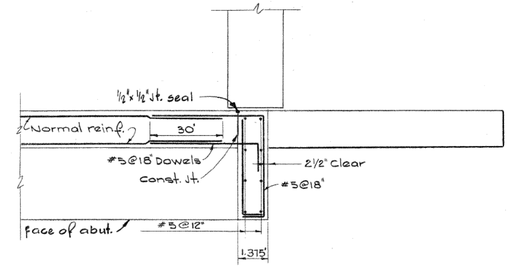
SECTION B-B
1/2"=1'-0"



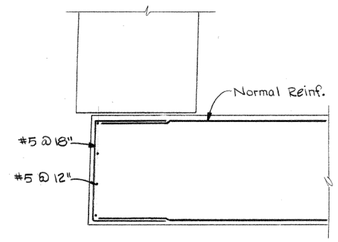
SECTION D-D
1/2"=1'-0"



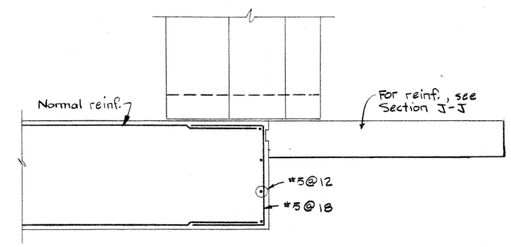
SECTION E-E
1/2"=1'-0"



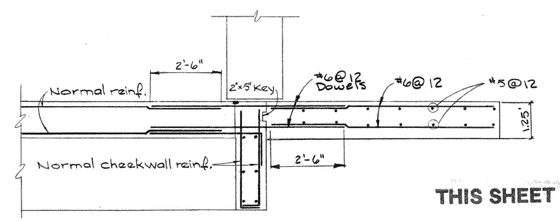
SECTION G-G
1/2"=1'-0"



SECTION F-F
1/2"=1'-0"



SECTION H-H
1/2"=1'-0"



SECTION J-J
1/2" = 1'-0"

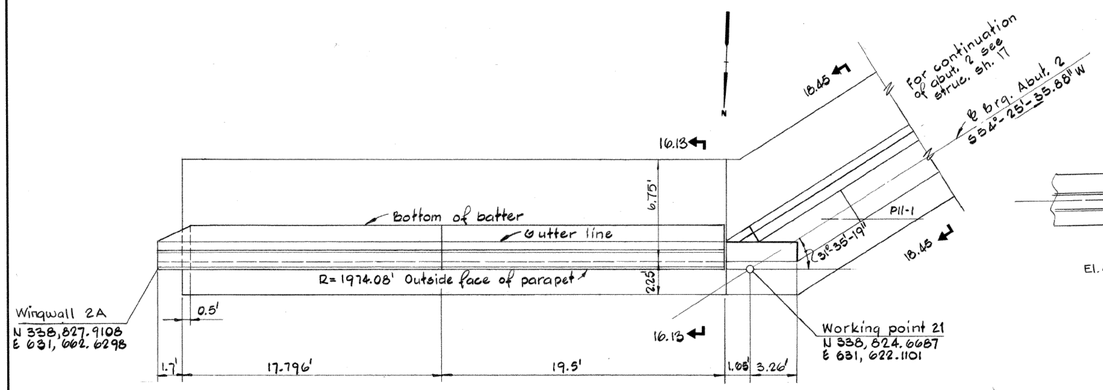
THIS SHEET NOT CORRECTED

Note: For locations of sections, see struct shts 16 & 17

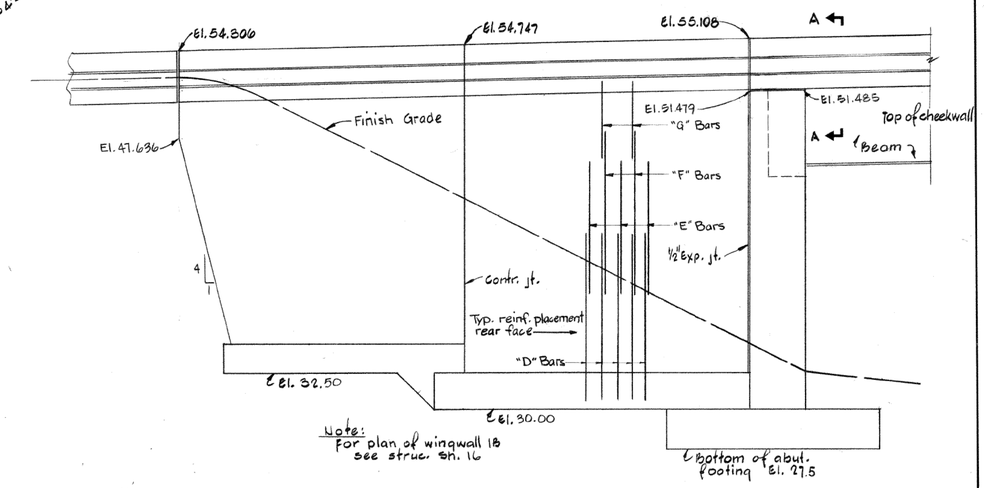
NO.	DATE	DESCRIPTION

FED. RD. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216		I-84,I5	426	807

FORM NO. ENG 15A ED. 1-75

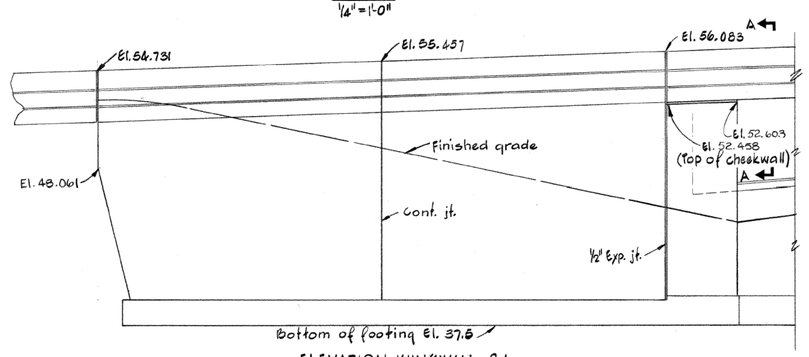


PLAN
1/4" = 1'-0"

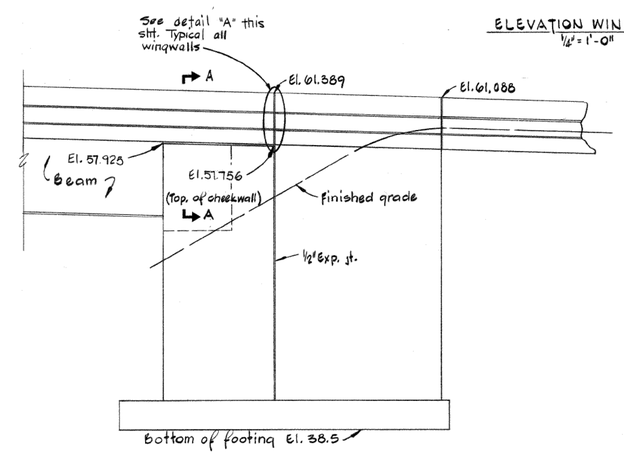


Note:
For plan of wingwall 1B see struc. sh. 16

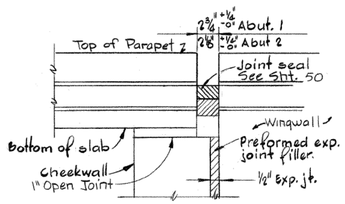
ELEVATION WINGWALL 1B
1/4" = 1'-0"



ELEVATION WINGWALL 2A
1/4" = 1'-0"

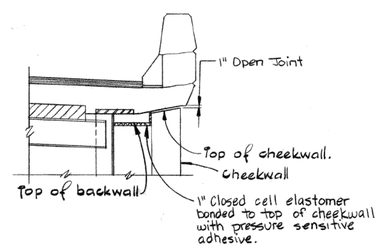


ELEVATION WINGWALL 2B
1/4" = 1'-0"



Applies to all Wingwalls

DETAIL "A"
N.T.S.



SECTION A-A

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 NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

WINGWALLS

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER R.H.C. DRAFTSMAN D.A.M. CHECKER M.A.K.
APPROVED J. P. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 19 of 58

42-216 42-225 383-01 426

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 19.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

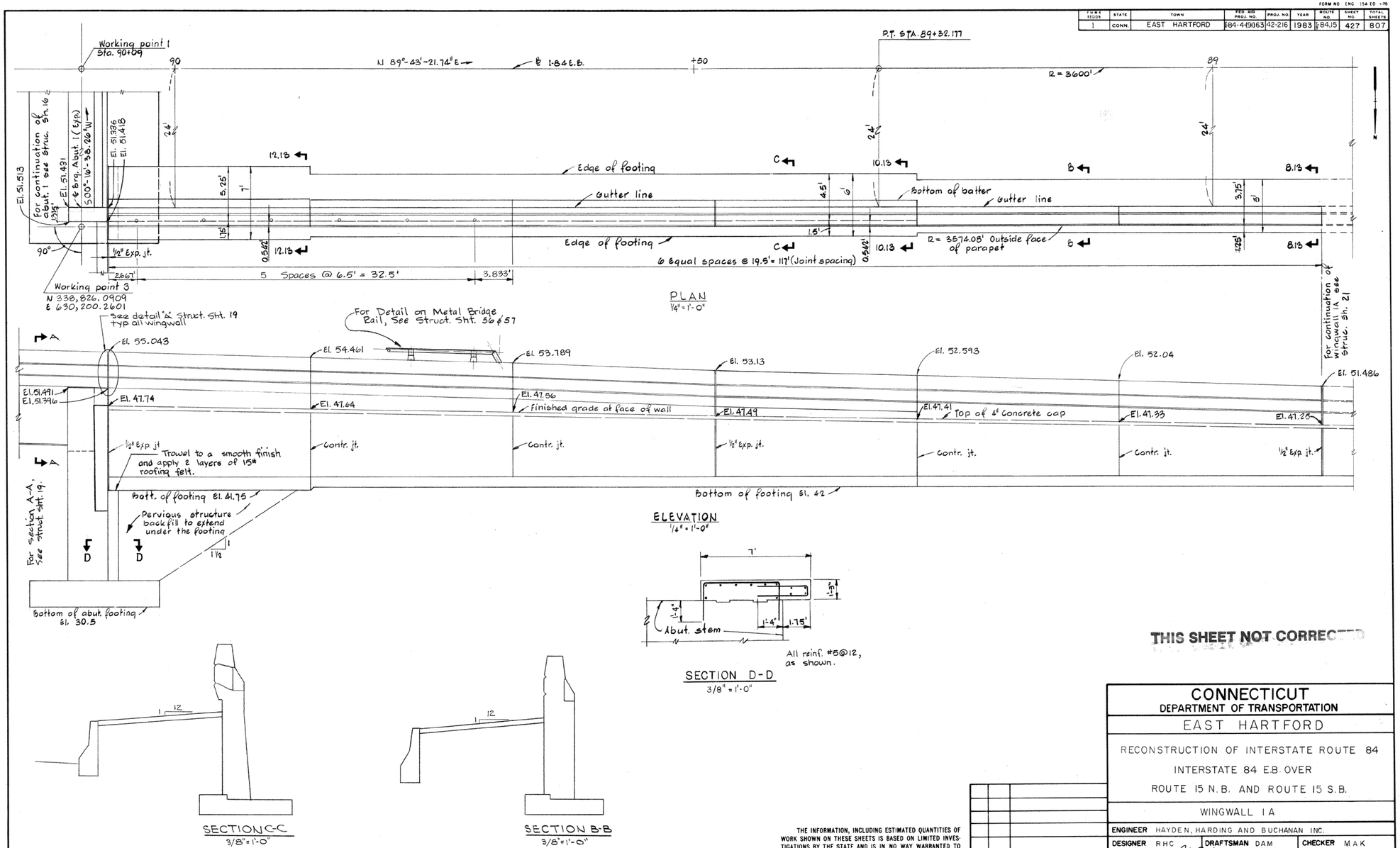
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-20
SHEET NO. 06.20

FORM NO. ENG 15A ED 1-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	184-449(163)	42-216	1983	I-84,15	427	807



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

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

WINGWALL 1A

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER RHC | DRAFTSMAN DAM | CHECKER MAK
APPROVED J. F. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 20 of 58

42-216 42-225 383-01 427

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 20.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

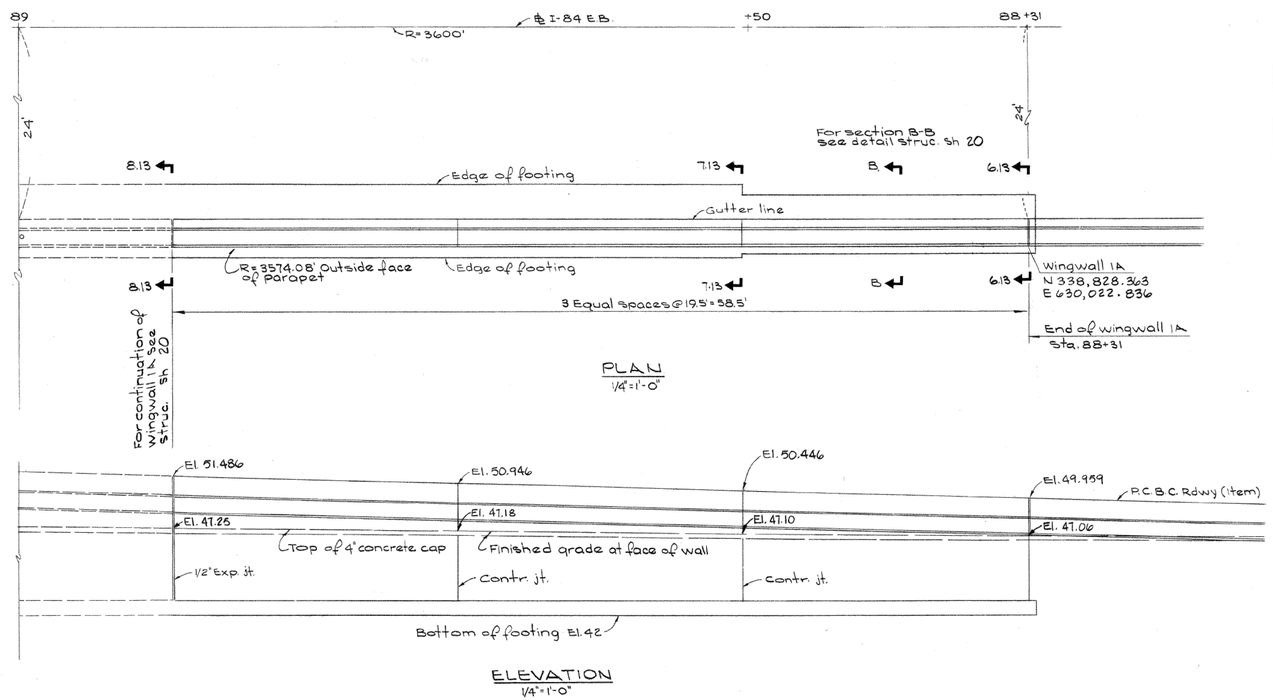
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-21
SHEET NO. 06.21

FORM NO ENG 15A ED 1-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	428	807



THIS SHEET NOT CORRECT

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NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

WINGWALL 1 A

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER RHC | DRAFTSMAN H.B. | CHECKER MAK
APPROVED J. R. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 21 of 58

42-216 42-225 383-01 428

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 21.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

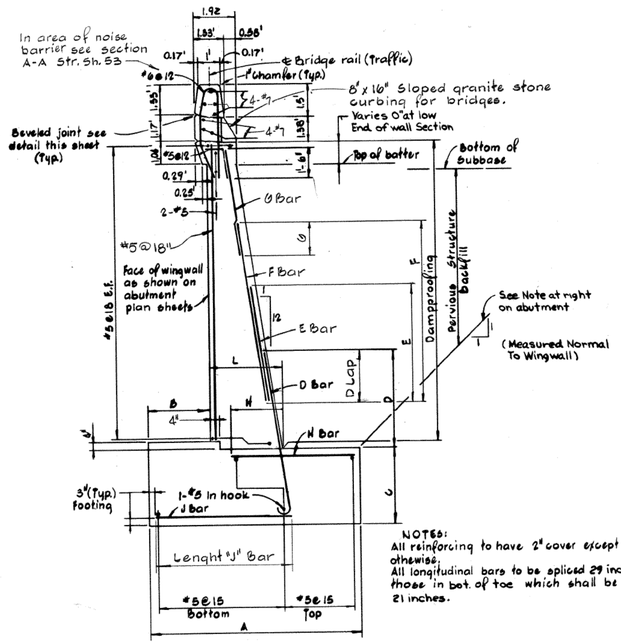
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

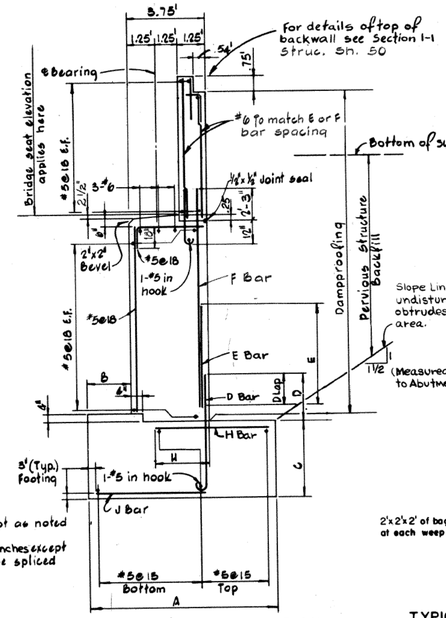
PROJECT NO. 0042-0325
DRAWING NO. E-22
SHEET NO. 06.22

FED. RD. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84(91)163	42-216	1983	I-84,I5	429	807

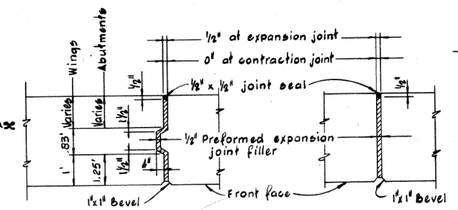
FORM NO. ENG. 156 ED. 1-78



TYPICAL WINGWALL SECTION



TYPICAL ABUTMENT SECTION



KEYED JOINTS

NON-KEYED JOINTS

VERTICAL STEM JOINT DETAILS

NOTES:

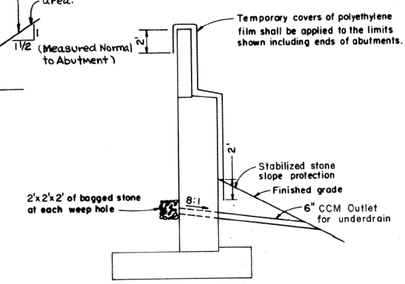
JOINT SEAL

ABUTMENTS - Joint seal to extend from top of footing to top of backwall and horizontally along top of backwall.
WINGWALLS - Joint seal to extend from top of footing to top of parapet and horizontally along this joint to outside face of parapet.

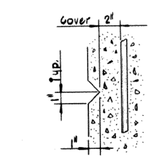
KEYS

ABUTMENT - Keys to extend from top of footing to within 1'-0" of the bridge seat. Backwall no key required.
WINGWALLS - Key to extend from top of footing to an elevation at which width of stem is equal to 2.83'
REINFORCEMENT - No reinforcement shall pass through expansion or contraction joints. Reinforcement shall pass thru construction joints.

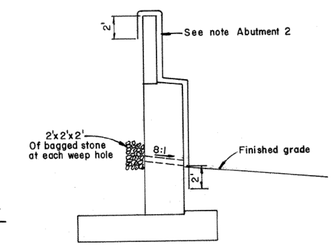
NOTES:
All reinforcing to have 2" cover except as noted otherwise.
All longitudinal bars to be spliced 29 inches except those in bot. of toe which shall be spliced 21 inches.



TYPICAL WEEP HOLE DETAIL & STAIN PROTECTION COVERS ABUTMENT 2



BEVELED JOINT



TYPICAL WEEP HOLE DETAIL & STAIN PROTECTION COVERS ABUTMENT 1

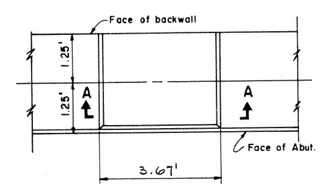
ABUTMENTS & WINGWALLS

SECT.	TSF	DIMENSIONS (Ft.) A	B	C	REINFORCEMENT H Bar	H	J Bar	Length "J"	D Bar	D	"D" Lap	E Bar	E	F Bar	F	G Bar	G	L
24.43	3.0	13.50'	4.00'	2.50'	#8@12"	39"	#8@11"	7'-9"	#7@7.5"	9'-6"	45"	#5@15"	7'-6"	#6@15"	—	—	—	—
22.43	3.0	12.50'	3.50'	2.50'	#7@12"	30"	#7@11"	7'-3"	#7@10"	7'-0"	51"	#6@10"	—	—	—	—	—	—
20.45	2.9	11.00'	2.00'	2.00'	#8@12"	39"	#5@12"	5'-9"	#8@9.5	7'-0"	45"	#5@9.5	—	—	—	—	—	—
18.45	2.7	10.00'	2.00'	2.00'	#6@11"	22"	#5@12"	5'-9"	#5@9.5	5'-0"	45"	#5@9.5	—	—	—	—	—	—
24.13	2.5	12.50'	3.00'	2.50'	#9@11"	49"	#5@9.5	6'-0"	#8@8.0	9'-6"	51"	#6@16"	9'-0"	#6@16"	11'-0"	#6@16"	27'	3.00
20.13	2.0	11.00'	2.75'	2.00'	#8@12"	39"	#5@12"	5'-6"	#8@12"	6'-0"	60"	#7@12"	—	—	—	—	—	2.79
16.13	1.6	9.00'	2.25'	1.75'	#6@11"	22"	#5@12"	4'-9"	#6@11"	6'-0"	45"	#5@11"	—	—	—	—	—	2.43
12.13	1.3	7.00'	1.75'	1.25'	#5@12"	17"	#5@12"	4'-0"	#5@12"	4'-0"	—	#5@12"	—	—	—	—	—	2.10
10.13	1.1	6.00'	1.50'	1.00'	#5@12"	17"	#5@12"	3'-6"	#5@12"	4'-0"	—	#5@12"	—	—	—	—	—	1.86
8.13	.9	5.00'	1.25'	1.00'	#5@12"	17"	#5@12"	3'-0"	#5@12"	4'-0"	—	#5@12"	—	—	—	—	—	*
7.13	.7	5.00'	1.25'	1.00'	#5@12"	17"	#5@12"	3'-0"	#5@12"	4'-0"	—	#5@12"	—	—	—	—	—	*
6.13	.7	4.00'	1.00'	1.00'	#5@12"	17"	#5@12"	2'-6"	#5@12"	4'-0"	—	#5@12"	—	—	—	—	—	*

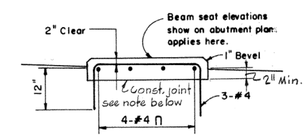
Max Soil Pressure Ton/Sq. Ft. A.A.S.H.T.O. Group I

Last bar listed, E, F or G bar to extend to top of wingwall or into Abutment backwall.

*Note:
Sections 8.13, 7.13 & 6.13 to have vertical back face. Also front face of these sections to align with extrem outside face of parapet. (No set back) See Section B-B Struc. Sh. 20



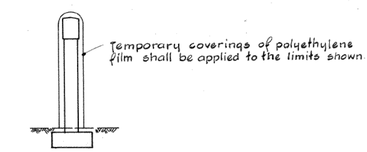
PLAN



SECTION A-A

TYPICAL BEARING PAD

Note:
At abutments the concrete bearing pads shall not be cast for a minimum of 60 (Sixty) days after the pervious structure and embankment backfill has been placed behind the abutment to the bottom of the subbase for a distance of 100 feet behind the abutment.



PIER STAIN PROTECTION COVERS

THIS SHEET NOT CORRECTED

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NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

TYPICAL ABUTMENT AND WINGWALL SECTIONS

ENGINEER HAYDEN, HARDING & BUCHANAN
DESIGNER R.H.L. | DRAFTSMAN ALL | CHECKER M.A.K.
APPROVED J. J. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO | STRUCTURE SHEET NO. 22 of 58

42-216 42-225 383-01 429

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 22.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

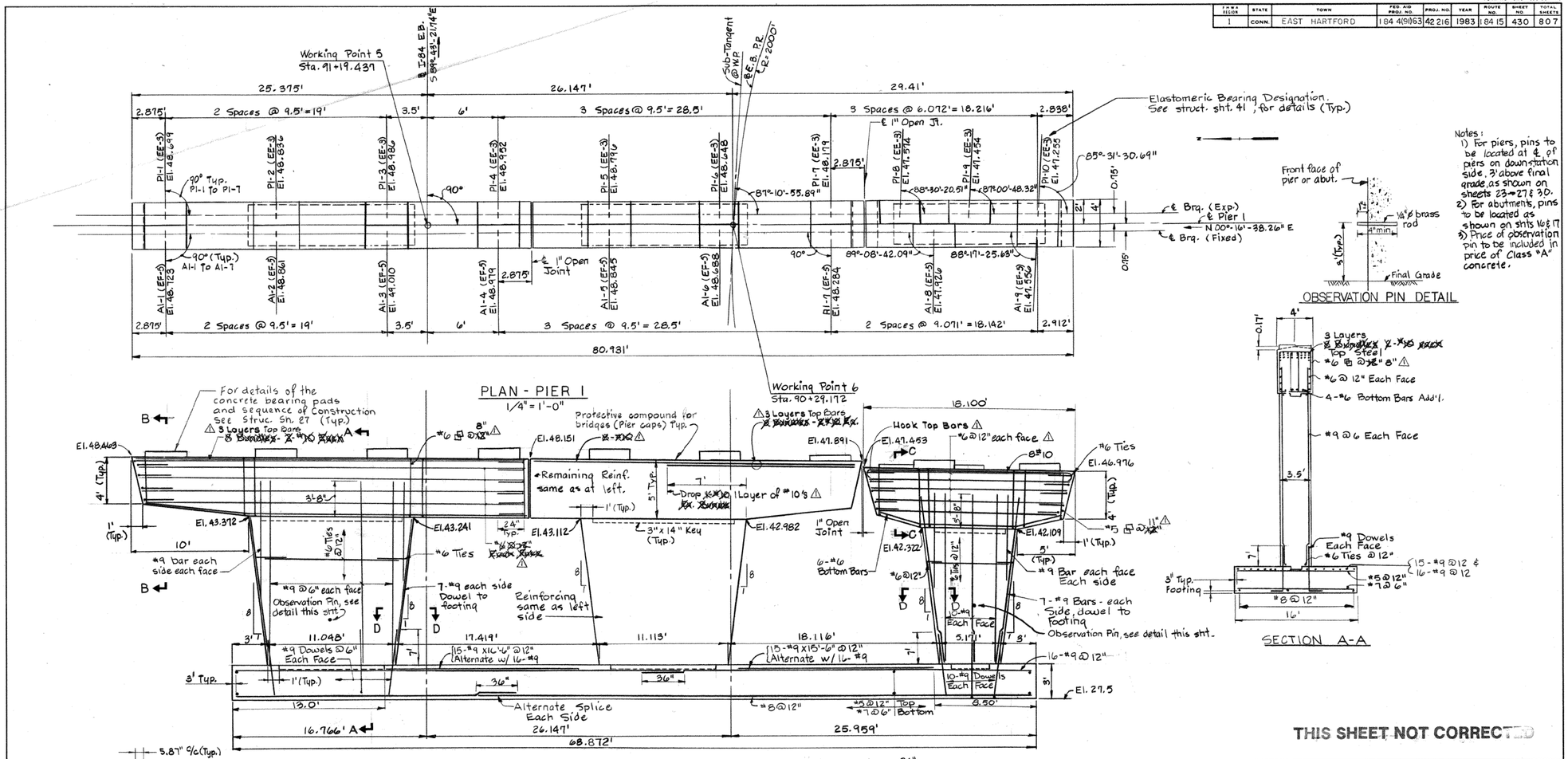
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-23
SHEET NO. 06.23

FORM NO. ENG. 159 ED. 1-79

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	184 4(91)63	42 216	1983	184 15	430	807



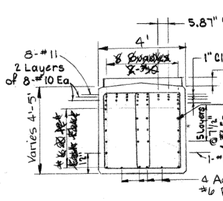
PLAN - PIER 1
1/4" = 1'-0"

Notes:
1) For piers, pins to be located at ℄ of piers on downstation side, 3' above final grade, as shown on sheets 23 & 27 & 30.
2) For abutments, pins to be located as shown on shts 16 & 17
3) Price of observation pin to be included in price of Class "A" concrete.

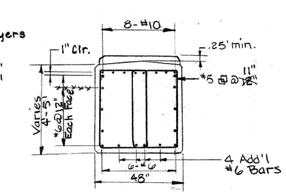
OBSERVATION PIN DETAIL

SECTION A-A

THIS SHEET NOT CORRECTED

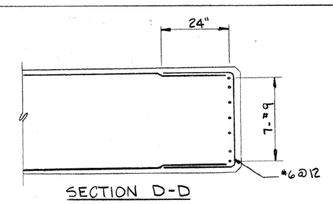


SECTION B-B



SECTION C-C

ELEVATION - PIER 1
1/4" = 1'-0"



SECTION D-D

Max. Soil Pressure Tons/sq. ft.
AASHTO Group I - 2.1
AASHTO Group III - 2.6

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NO.	DATE	DESCRIPTION
1	12/86	Pier Cap Reinf. Revised

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PLAN & ELEVATION PIER 1

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M.A.K. DRAFTSMAN V.A.S. CHECKER R.H.C.
APPROVED J. A. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 23 of 58

42-216 42-225 383-01 430

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 23.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

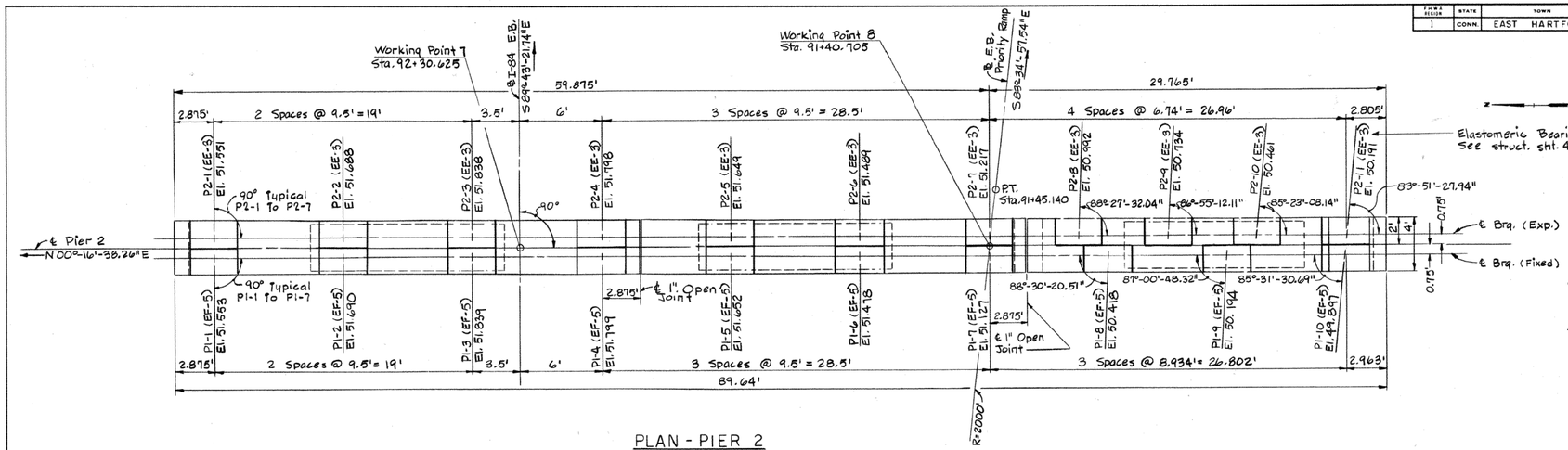
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

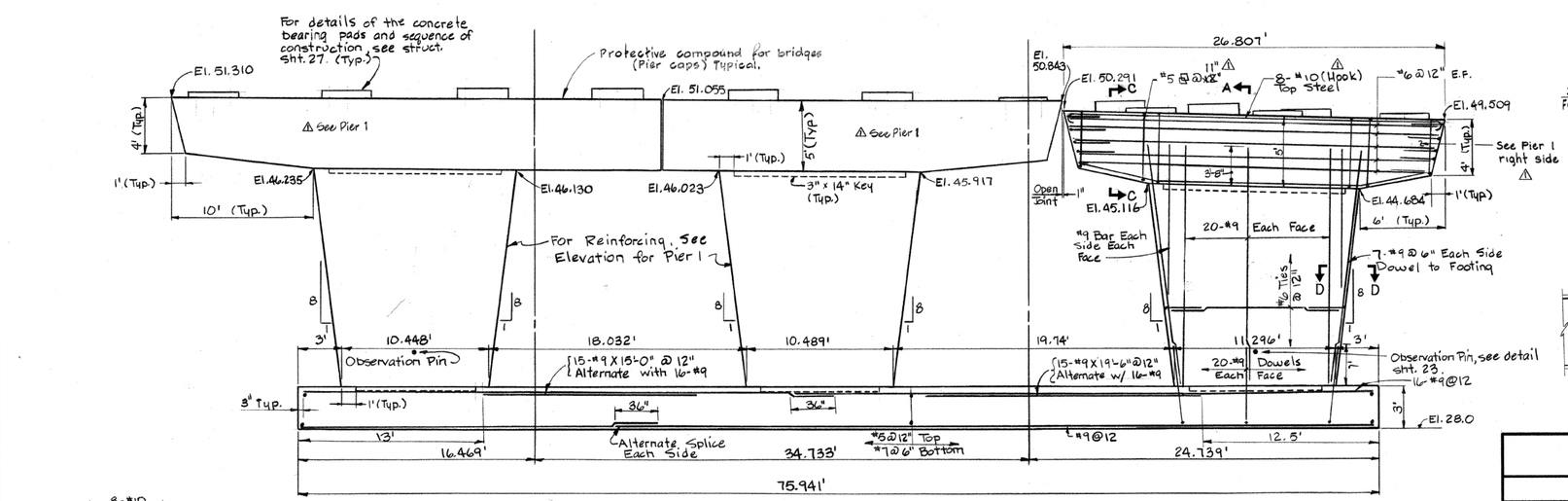
PROJECT NO. **0042-0325**
DRAWING NO. **E-24**
SHEET NO. **06.24**

FORM NO. ENG. 158 ED. 1-78

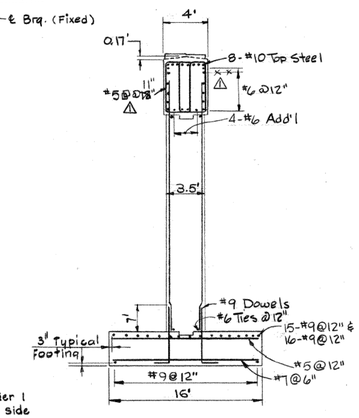
F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84,15	431	807



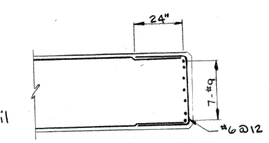
PLAN - PIER 2
1/4" = 1'-0"



ELEVATION - PIER 2
1/4" = 1'-0"

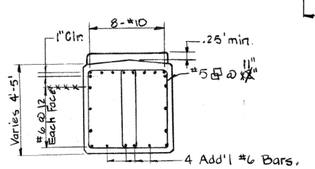


SECTION A-A



SECTION D-D

THIS SHEET NOT CORRECTED



SECTION C-C

Max. Soil Pressure
Tons / Sq. ft.
AASHTO Group I - 1.9
AASHTO Group III - 2.5

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
1	12/86	Pier Cap Reinf. Revised

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PLAN & ELEVATION PIER 2

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M A K | DRAFTSMAN V.A.S. | CHECKER R.H.C.
APPROVED J. T. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 24,58

42-216 42-225 383-01 431

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 24.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

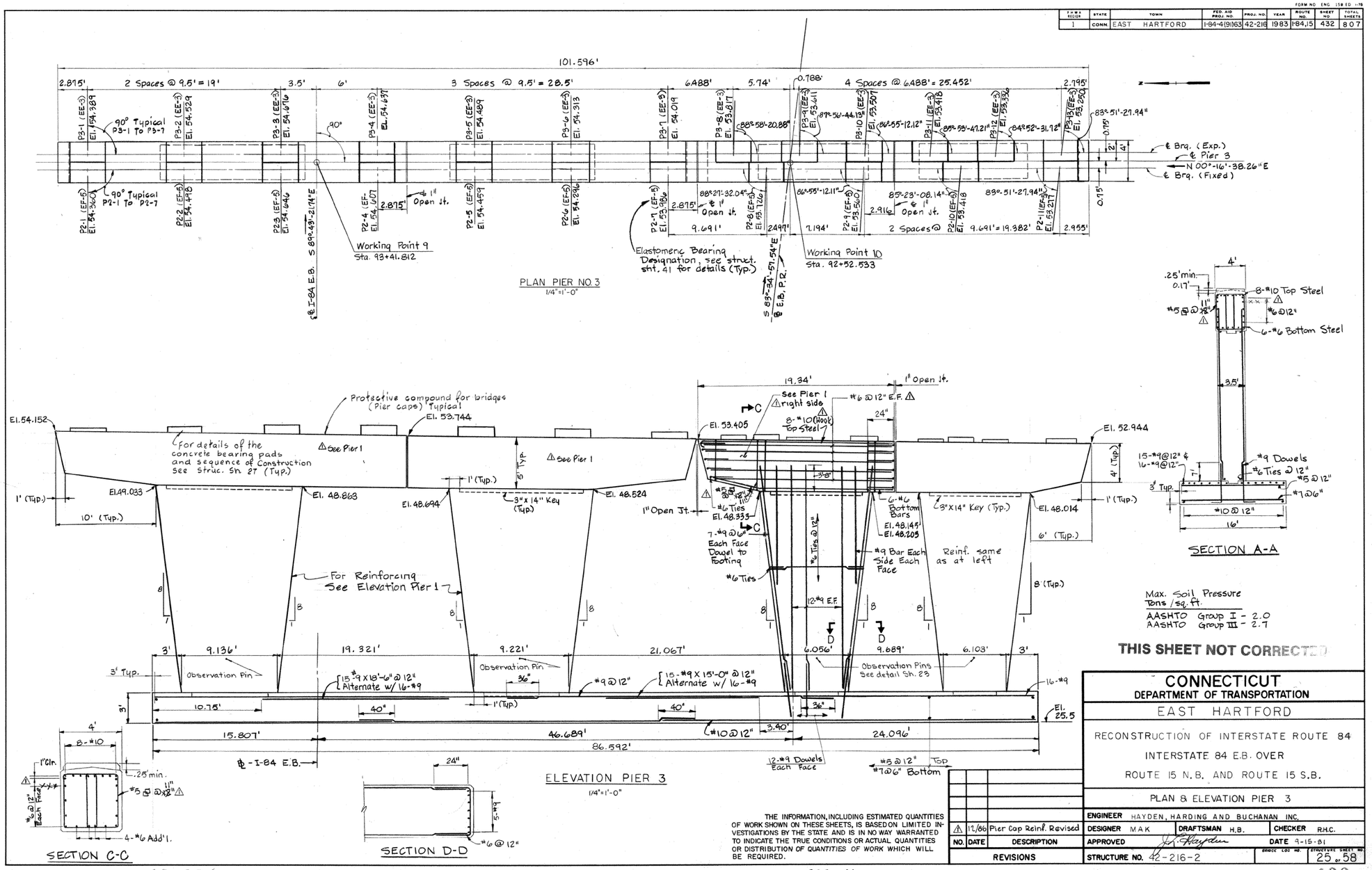
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-25
SHEET NO. 06.25

FORM NO. ENG. 158 ED. 1-79

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	432	807



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	12/86	Pier Cap Reinf. Revised

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PLAN & ELEVATION PIER 3

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER MAK | DRAFTSMAN H.B. | CHECKER R.H.C.
APPROVED [signature] | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 25 of 58

42-216 42-225 383-01 432

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 25.dgn

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

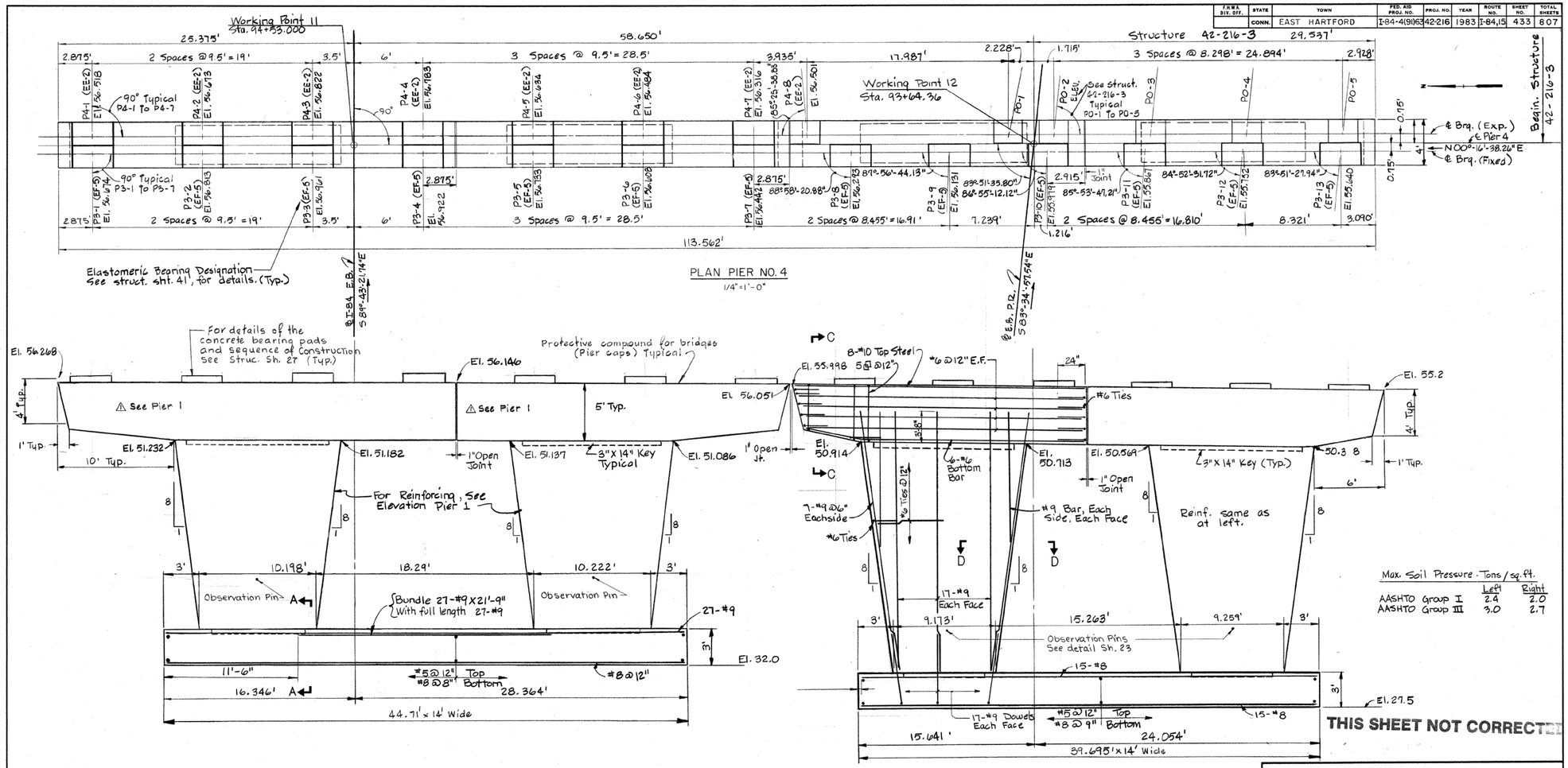
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-26**
SHEET NO. **06.26**

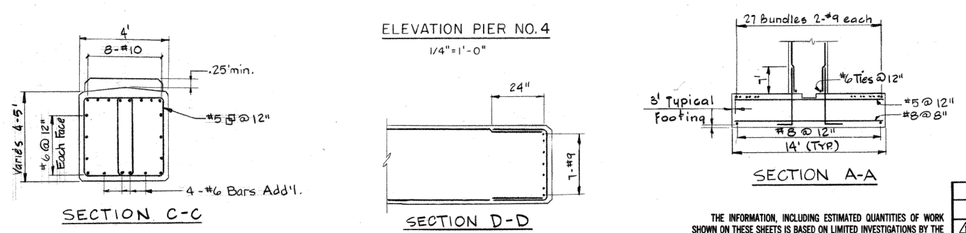
FORM NO. ENG. 15A ED. 1/71

F.H.W.A. DIV. OFF.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	433	807



Max. Soil Pressure - Tons/sq. ft.

	Left	Right
AASHTO Group I	2.4	2.0
AASHTO Group III	3.0	2.7



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NO.	DATE	DESCRIPTION
1	12/86	Pier Cap Reinf. Revised

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PLAN & ELEVATION PIER 4

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
APPROVED J. F. Hayden DATE 9-15-81
DESIGNER M.A.K. DRAFTSMAN H.B. CHECKER R.H.C.
STRUCTURE NO. 42-216-2 STRUCTURE SHEET 26 OF 58

42-216 42-225 383-01 433

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 26.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

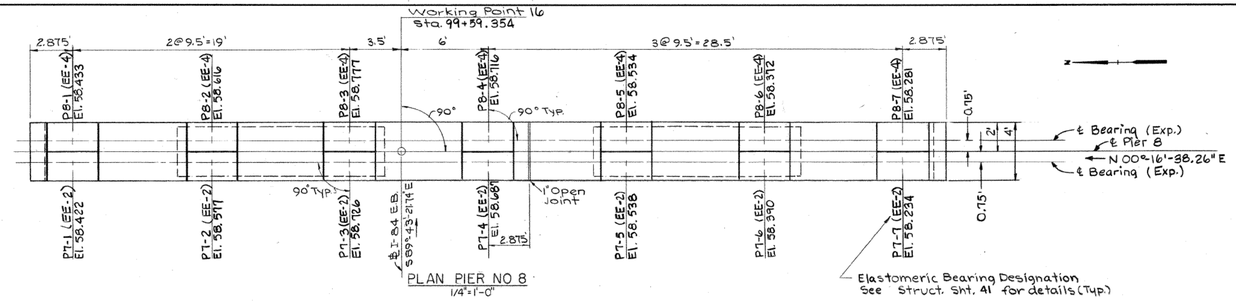
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

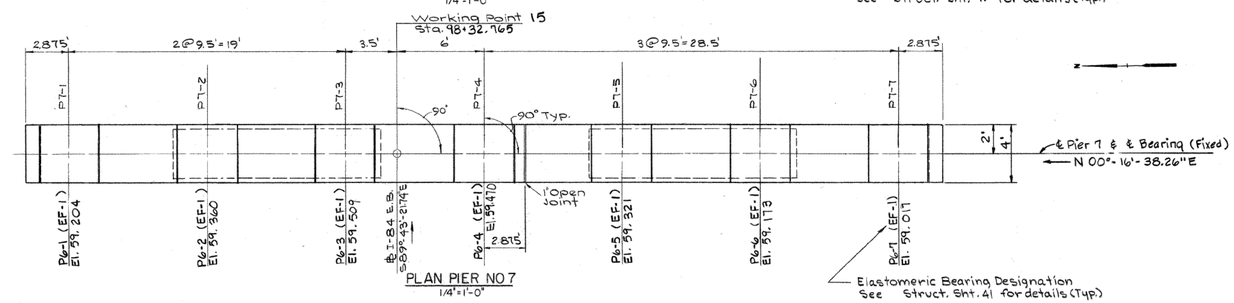
PROJECT NO. **0042-0325**
DRAWING NO. **E-27**
SHEET NO. **06.27**

FORM NO. ENG. 158 ED. 1-75

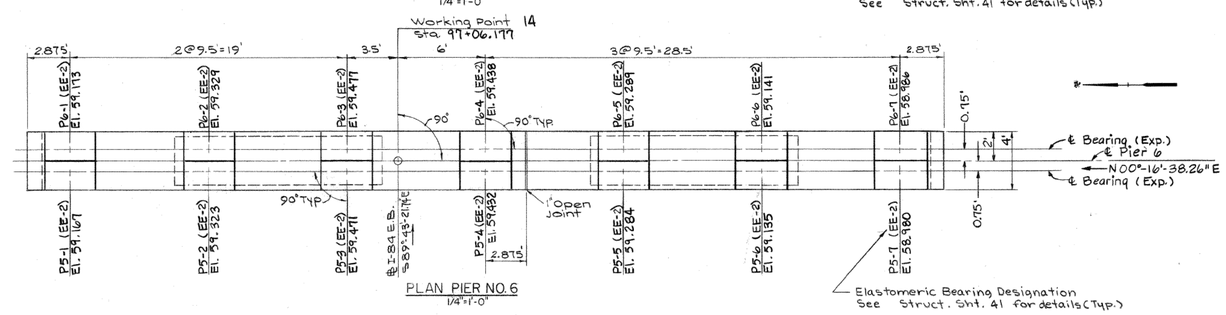
F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(916)	42-216	1983	I-84, I5	434	807



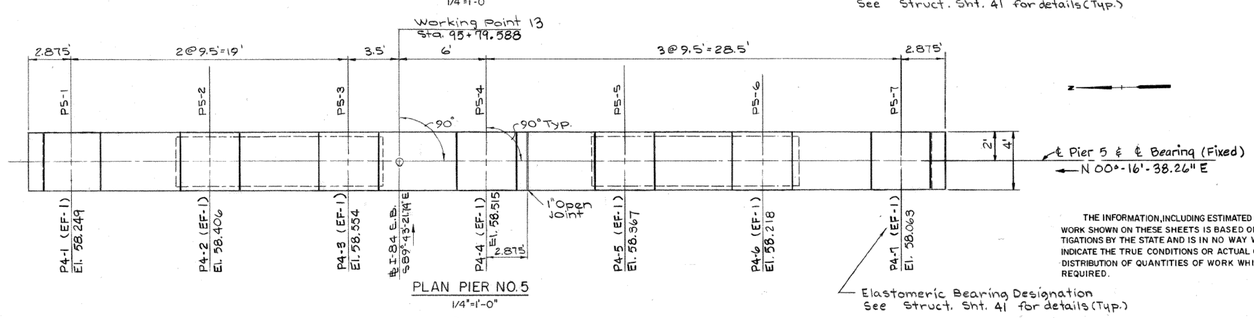
PLAN PIER NO 8
1/4"=1'-0"



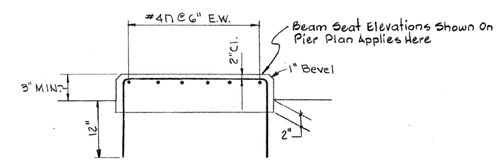
PLAN PIER NO 7
1/4"=1'-0"



PLAN PIER NO. 6
1/4"=1'-0"



PLAN PIER NO. 5
1/4"=1'-0"



TYPICAL BEARING PAD REINFORCEMENT

Note: Concrete bearing pads at piers shall not be cast until a minimum of 15 days after the pouring of the pier cap.

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NO.	DATE	DESCRIPTION

REVISIONS

THIS SHEET NOT CORRECT

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PIER CAPS PIERS 5,6,7,8

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER M.A.K. DRAFTSMAN H.B. CHECKER R.H.C.
APPROVED J. E. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 27 of 58

42-216 42-225 383-01 434

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 27.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

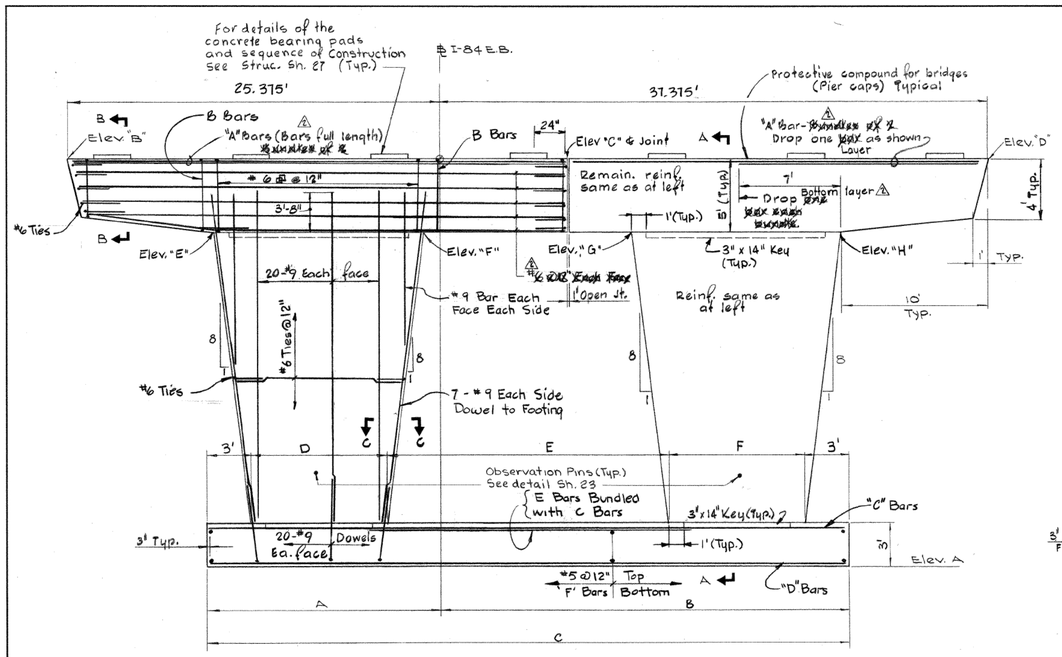
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-28
SHEET NO. 06.28

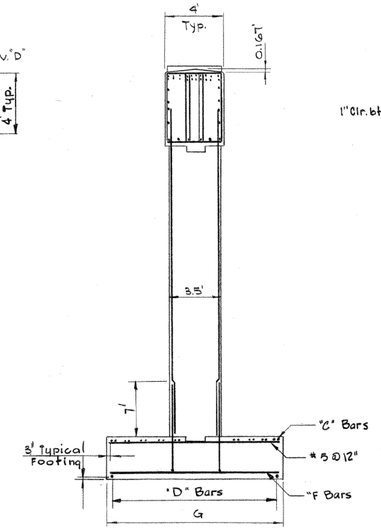
FORM NO. ENG. 159 ED. 1-78

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84/15	435	807

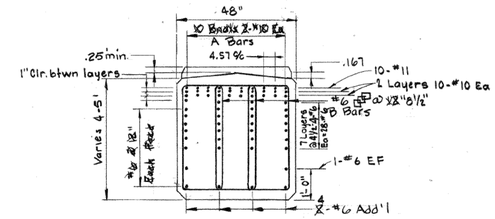


TYPICAL ELEVATION PIERS 5 THRU 8

1/4" = 1'-0"

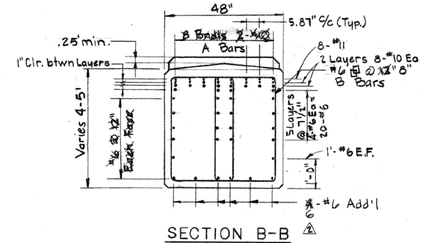


SECTION A-A



SECTION B-B

FOR PIERS 5 & 7



SECTION B-B

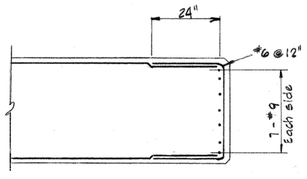
FOR PIERS 6 & 8

PIER NO.	ELEVATIONS A	B	C	D	E	F	G	H			DIMENSIONS (FEET) A	B	C	D	E	F	G			
5	33.5	58.001	57.891	57.797	53.968	52.922	52.876	52.829			16.317	28.334	44.651	10.139	18.366	10.162	16			
6	31.75	58.922	58.809	58.716	53.889	53.842	53.795	53.749			15.983	28.	43.983	9.471	19.017	9.495	12			
7	32.5	59.957	58.844	58.751	53.924	53.877	53.83	53.783			16.072	28.09	44.162	9.65	18.838	9.674	16			
8	34.5	58.177	58.064	57.97	53.144	53.097	53.05	53.003			16.42	28.437	44.857	10.346	18.142	10.369	12			

PIER NO.	REINFORCEMENT A BAR	B BAR	C BAR	D BAR	E BAR	F BAR	MAX. SOIL PRESSURE T.S.F. AASHTO GR. I	AASHTO GR. III
5	20-#10	10 Bars	3-#6 Stir. @ 12"	30-#10	30-#8	30-#10 X 23'-0"	#8 @ 6"	2.7	3.0
6	16-#10	8 Bars	2-#6 Stir. @ 12"	19-#9	10-#9	19-#9 X 19'-0"	#8 @ 12"	2.5	3.0
7	20-#10	10 Bars	3-#6 Stir. @ 12"	30-#10	30-#8	30-#10 X 22'-6"	#8 @ 6"	2.7	3.0
8	16-#10	8 Bars	2-#6 Stir. @ 12"	19-#9	10-#9	19-#9 X 20'-0"	#8 @ 12"	2.5	3.0

8" 8½"

See section B-B



SECTION C-C

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
1	6/85	Elev. Revision
2	12/86	Pier Cap Reinf. Revised

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

TYPICAL ELEVATION—PIERS 5 THRU 8

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER M.A.K. DRAFTSMAN H.B. CHECKER RHC
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 28 of 58

42-216 42-225 383-01 435

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 28.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

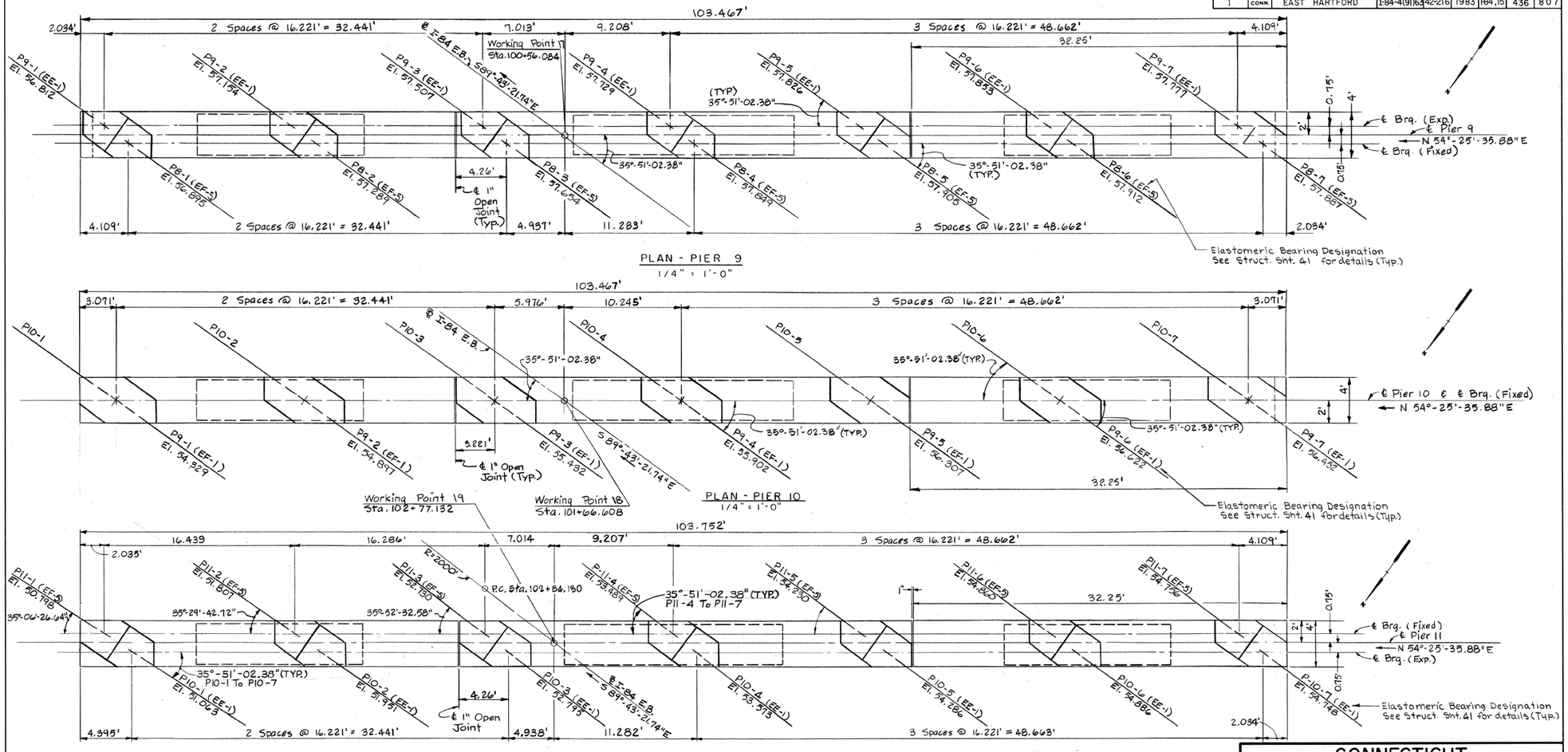
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-29
SHEET NO. 06.29

FORM NO. ENG. 158 ED. 1-79

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84, 15	436	807



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

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PIER CAPS - PIERS 9, 10, 11

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M.A.K. DRAFTSMAN V.A.S. CHECKER R.H.C.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 29, 58

42-216 42-225 383-01 436

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 29.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

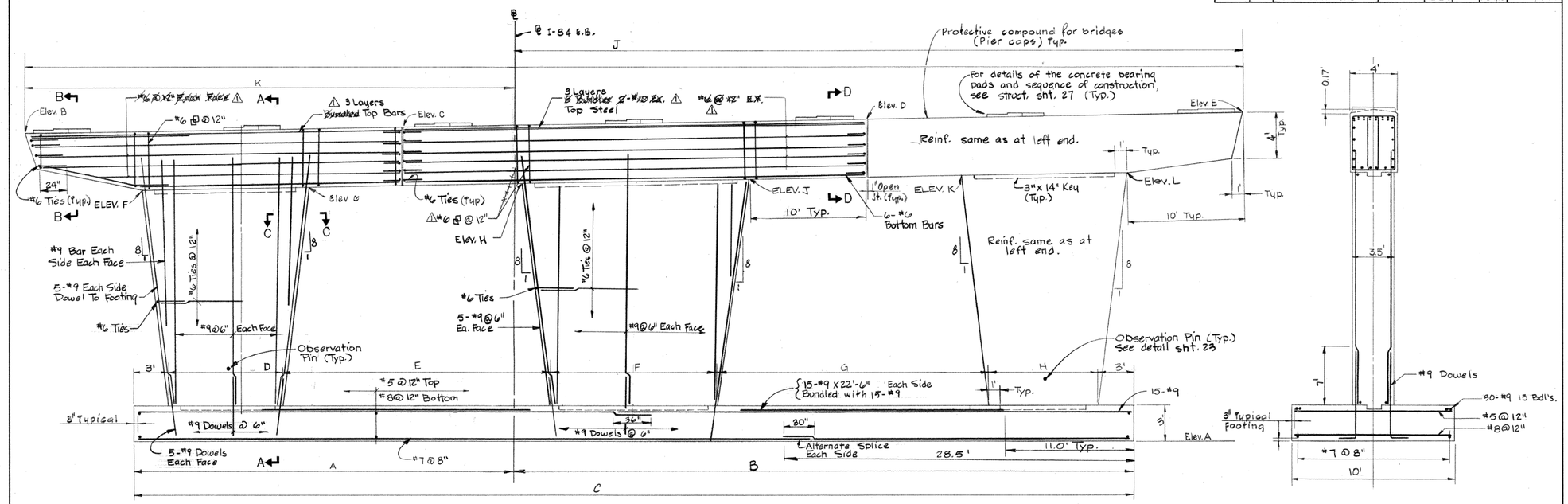
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-30**
SHEET NO. **06.30**

FORM NO. ENG. 159 ED. 1-79

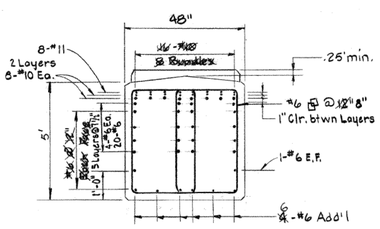
F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84,15	437	807



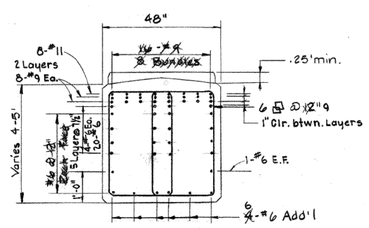
TYPICAL ELEVATION - PIERS 9,10, & 11
PIER 11 SHOWN
1/4"=1'-0"

SECTION A-A

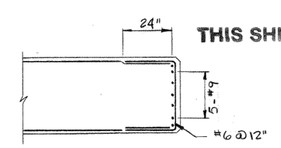
PIER NO.	ELEVATIONS															DIMENSIONS														SOIL PRESSURE T.S.F.	
	A	B	C	D	E	F	G	H	J	K	L					A	B	C	D	E	F	G	H	J	K					AASHTO GP. I	AASHTO GP. II
9	31.0	56.503	56.823	57.208	57.527	51.603	51.743	51.923	52.108	52.287	52.428					32.284	52.672	84.956	9.825	22.548	14.289	22.640	9.654	103.467	41.488					2.3	2.6
10	28.5	54.055	54.763	55.020	56.332	49.275	49.588	49.986	50.399	50.796	51.111					32.267	52.528	84.795	9.768	22.680	14.128	22.831	9.387	103.467	41.488					2.3	2.6
11	26.0	50.383	52.049	54.036	54.498	45.894	46.623	47.563	48.524	49.151	49.383					32.665	52.435	85.10	9.936	22.950	14.046	22.989	9.188	103.752	41.774					2.3	2.6



SECTION D-D ⚠



SECTION B-B ⚠



SECTION C-C

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 NOT CORRECTED

NO.	DATE	DESCRIPTION
⚠	12/86	Pier Cap Reinf. Revised

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

TYPICAL ELEVATION — PIERS 9, 10, & 11

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.K. DRAFTSMAN A.L.L. CHECKER R.H.C.
APPROVED J. F. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 30 of 58

42-216 42-225 383-01 437

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 30.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

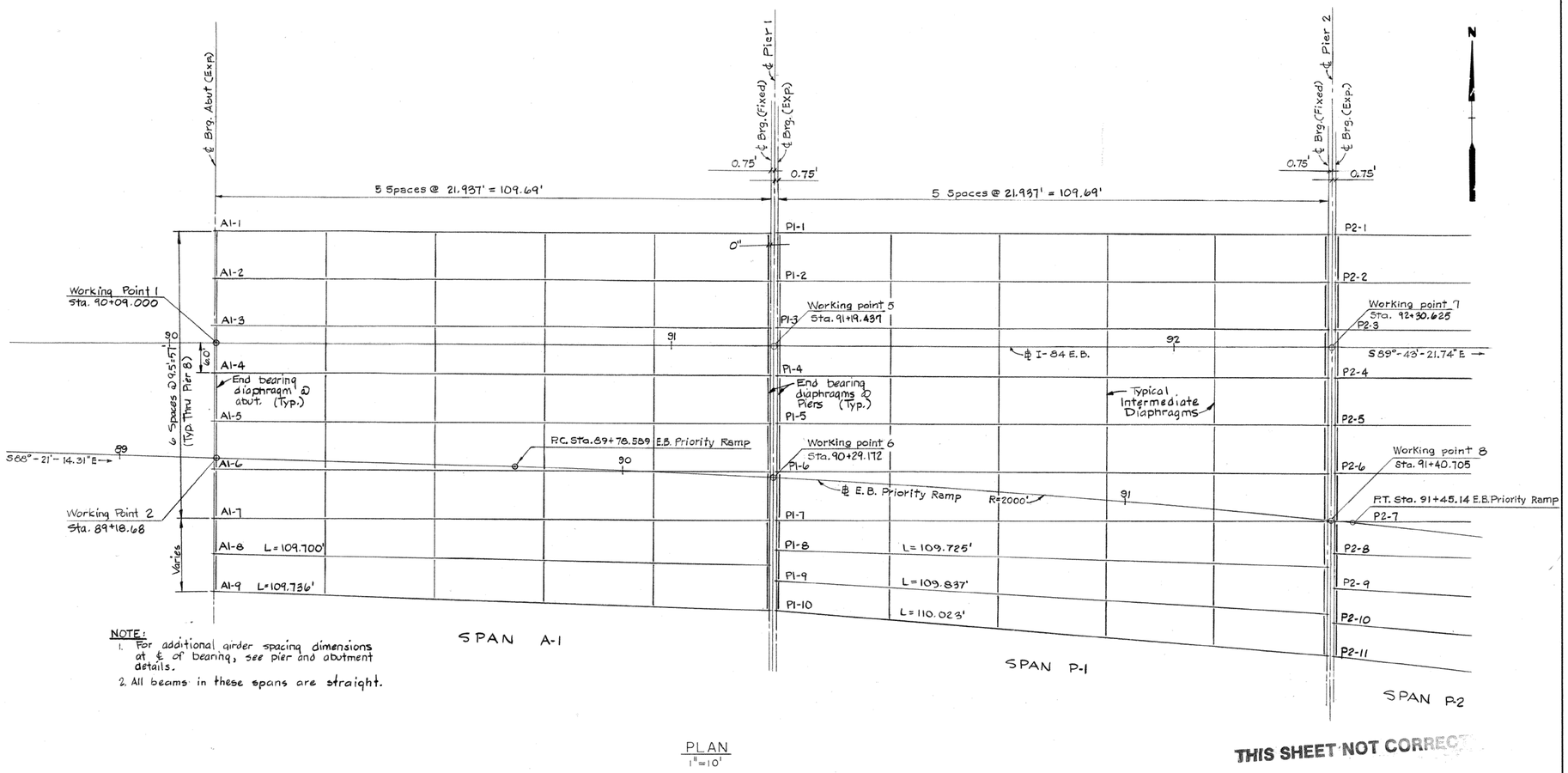
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. 0042-0325
DRAWING NO. E-31
SHEET NO. 06.31

FORM NO. ENG. 158 ED. 1-76

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	F-84-4-(8)63	42-216	1983	I-84,15	438	807



NOTE:
1. For additional girder spacing dimensions at ℄ of bearing, see pier and abutment details.
2. All beams in these spans are straight.

PLAN
1"=10'

THIS SHEET NOT CORRECT

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

FRAMING PLAN-SHEET 1 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER M.A.K. DRAFTSMAN LCA CHECKER RHC
APPROVED J. J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 31 of 58

42-216 42-225 383-01 438

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 31.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

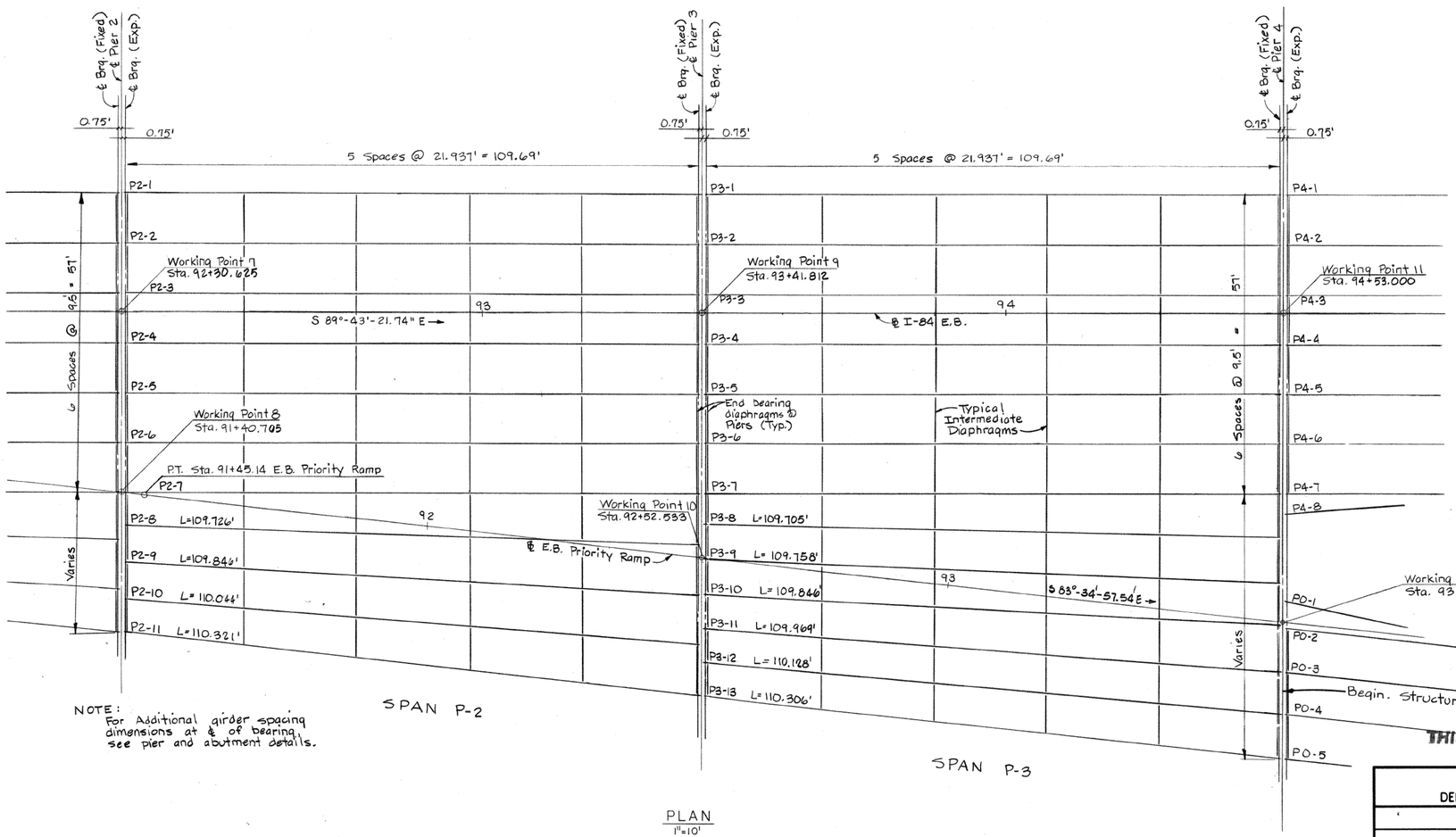
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-32
SHEET NO. 06.32

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-(916)5	42-216	1983	I-84,15	439	807

FORM NO. ENG. 158 ED. 1-78



NOTE: For Additional girder spacing dimensions at ℄ of bearing see pier and abutment details.

PLAN
1"=10'

THIS SHEET NOT CORRECTED

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

FRAMING PLAN - SHEET 2 OF 6

NO.	DATE	DESCRIPTION

REVISIONS

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.K. | DRAFTSMAN LCA | CHECKER R.H.C.
APPROVED J. R. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 32 OF 58

42-216 42-225 383-01 439

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 32.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

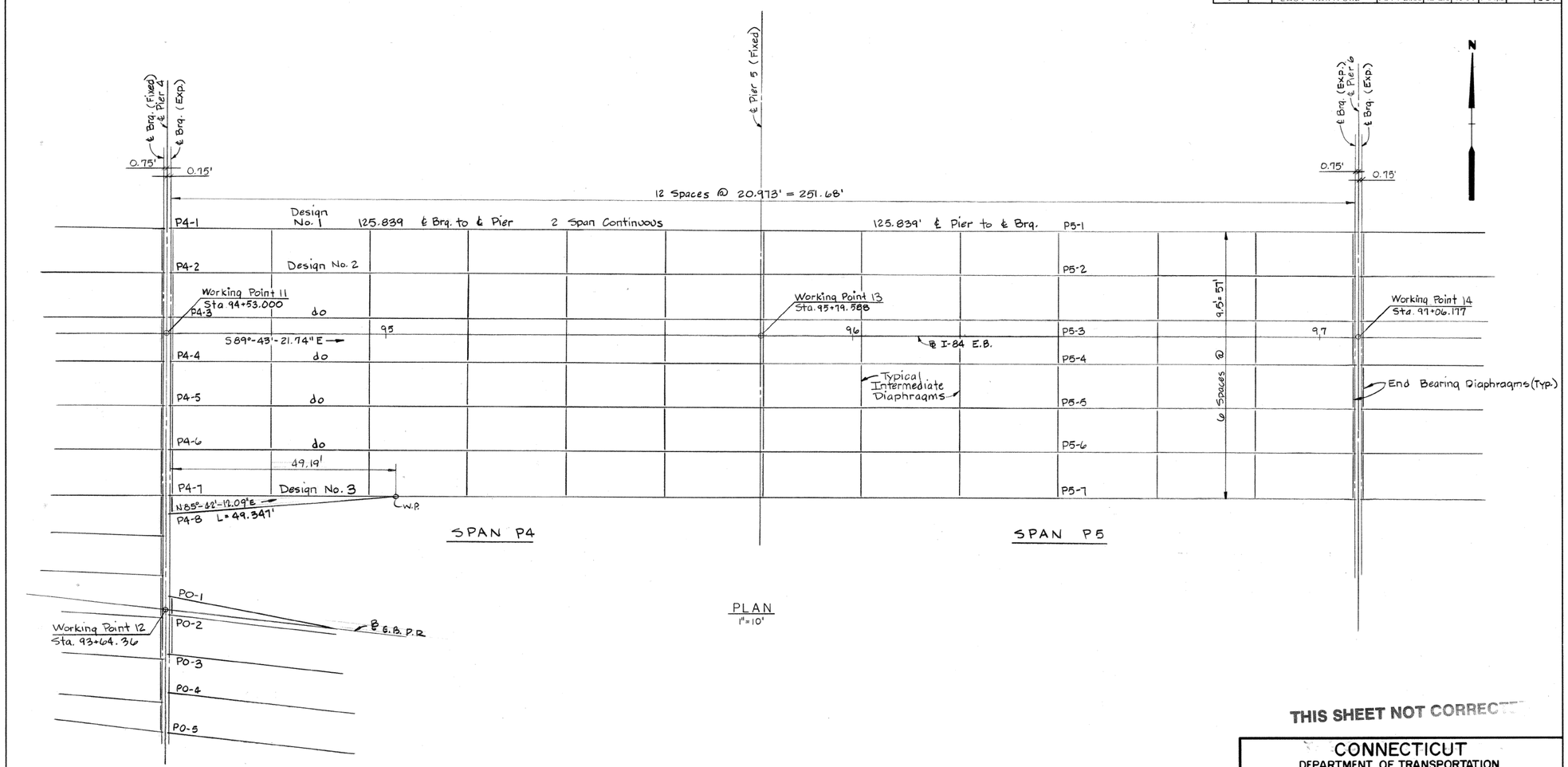
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-33**
SHEET NO. **06.33**

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-844-(1)063	42-216	1983	I-84,15	440	807

FORM NO. ENG. 158 ED. 1-75



THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N B AND ROUTE 15 S B

FRAMING PLAN - SHEET 3 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.K. DRAFTSMAN LCA CHECKER R.H.C.
APPROVED J. L. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 33 of 58

42-216 42-225 383-01 440

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 33.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

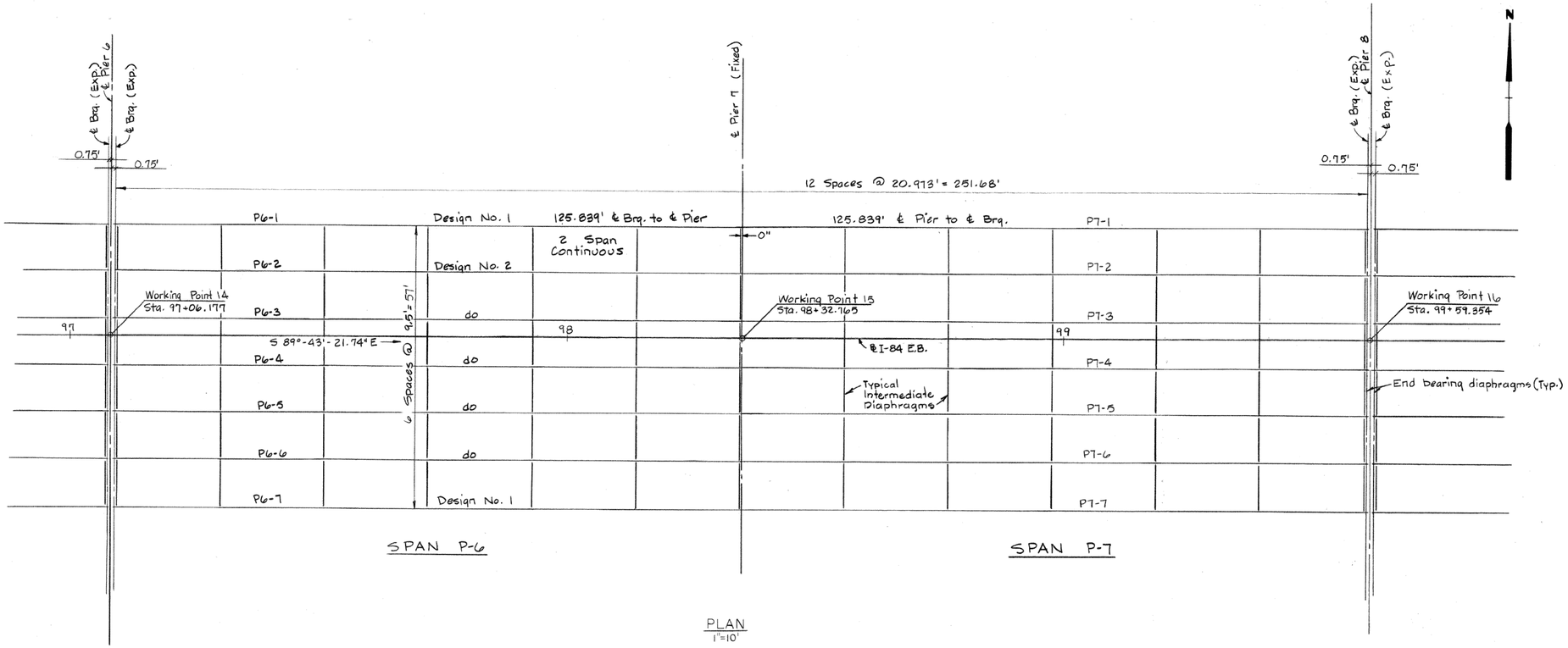
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-34
SHEET NO. 06.34

FORM NO. ENG. 158 ED. 1-78

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84(4)-9(963)	42-216	1983	I-84,15	441	807



PLAN
1"=10'

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

FRAMING PLAN-SHEET 4 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER MAK | DRAFTSMAN LCA | CHECKER RGH
APPROVED J. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOC. NO. | STRUCTURE SHEET NO. 34 of 58

42-216 42-225 383-01 441

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 34.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

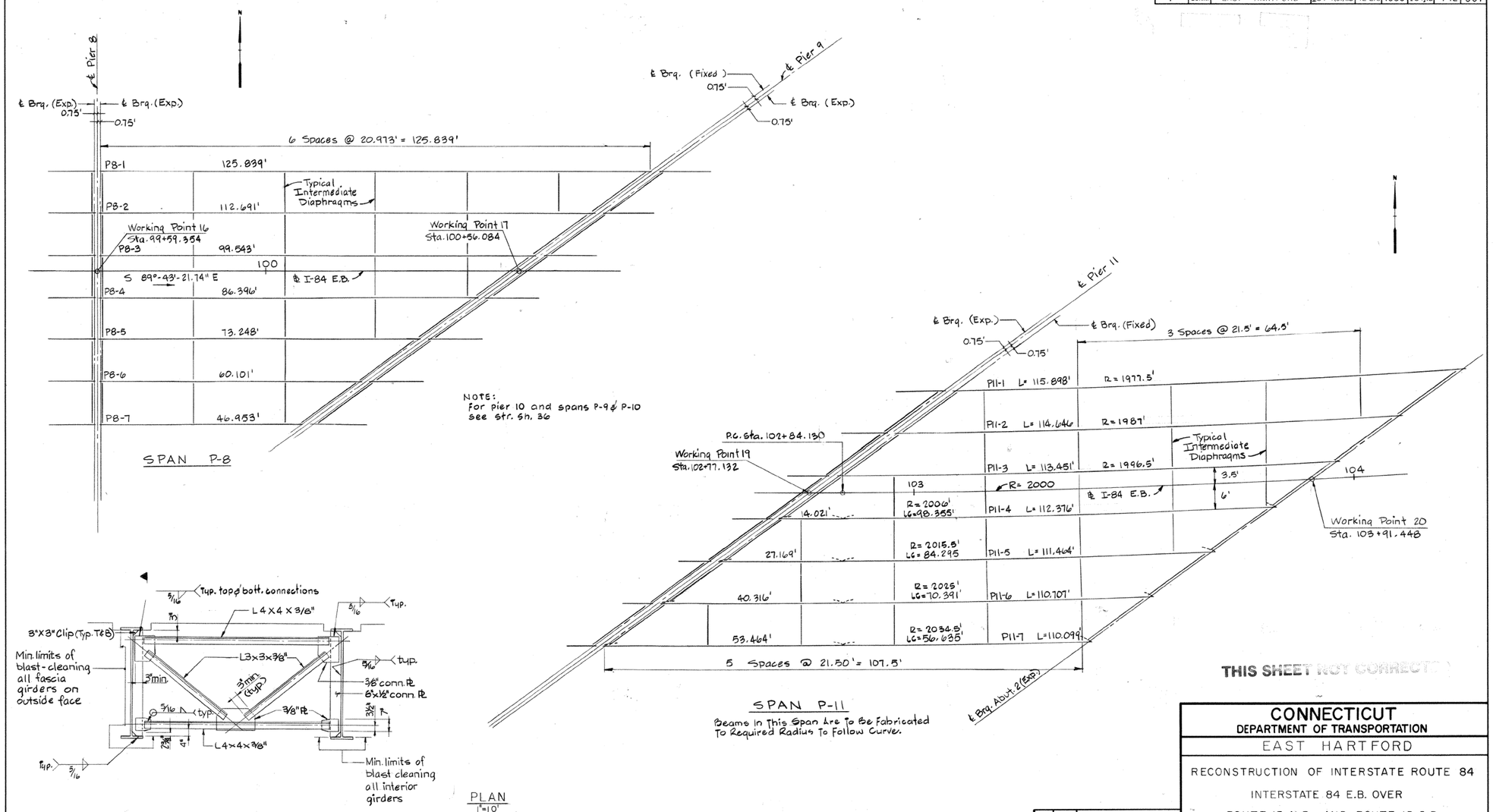
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-35
SHEET NO. 06.35

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I84-4(91)163	42-216	1983	I84,I5	442	807

FORM NO. ENG. 159 ED. 1-78

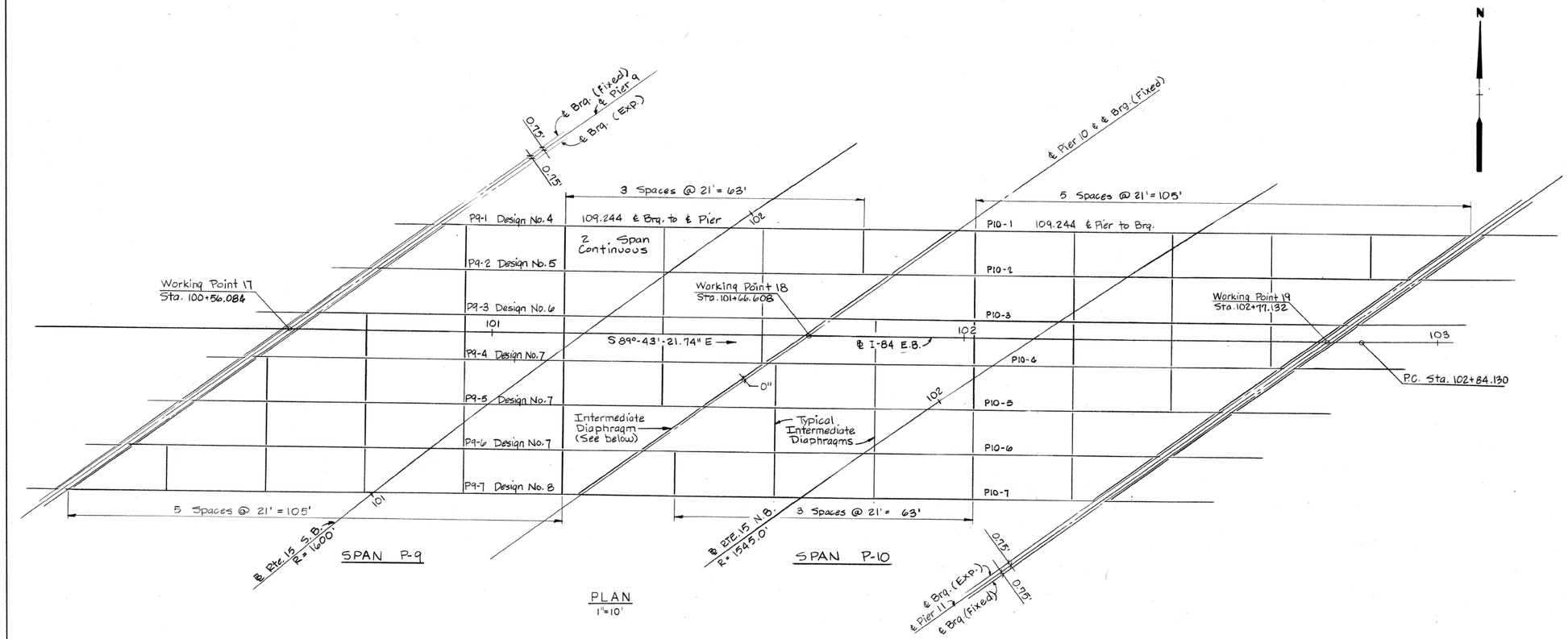


THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-(1)163	42-216	1983	I-84/5	443	807

FORM NO. ENG. 159 ED. 1-78



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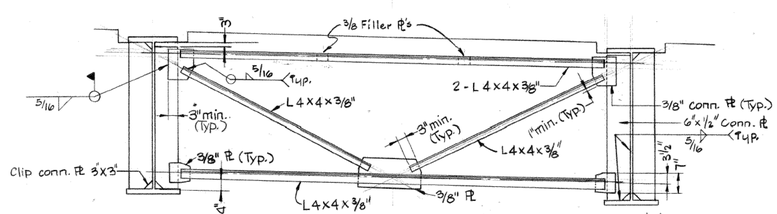


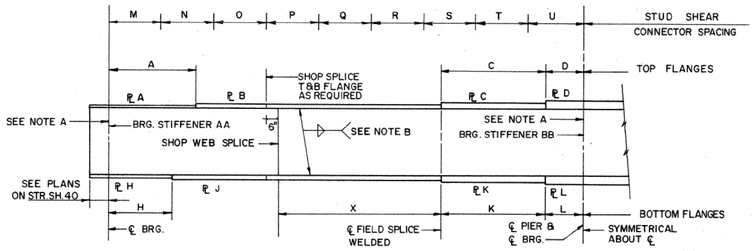
Note:
See Struc. Sheet 40 for Additional Diaphragm Details & Notes

TYPICAL INTERMEDIATE DIAPHRAGM — PIER 10 ONLY
1/2" = 1'

NO.	DATE	DESCRIPTION

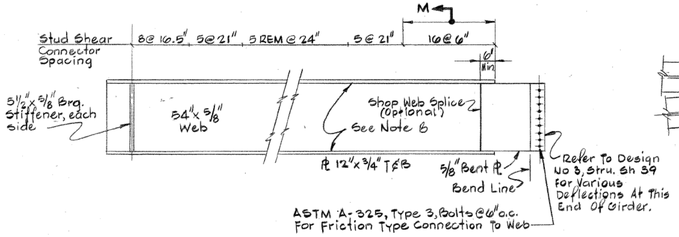
F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84(91)63	42-216	1983	I-84,I5	444	807

FORM NO. ENG 158 ED. 1-78



TWO SPAN CONTINUOUS

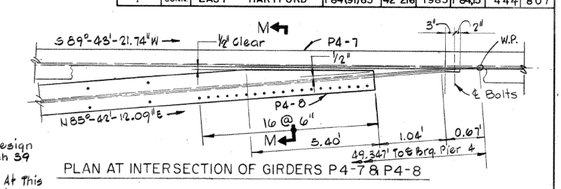
DESIGNS 1 THRU 8



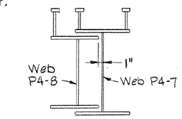
GIRDER P4-8

Estimated No. of Welded Stud Shear Connectors (8" high) = 64

STEEL DEFL.	OTHER DEFL.	TOTAL DEFL.	V.C. ORDINATE	EXTRA CAMBER	TOTAL CAMBER
.004	*.015	.019	.016	.027	.062



PLAN AT INTERSECTION OF GIRDERS P4-7 & P4-8



SECTION M-M

*NOTE:

DEFLECTION LABELED "OTHER" INCLUDES CONCRETE SLAB, WEARING SURFACE AND PARAPET LOADS. IN SETTING SCREED GRADES CONSIDERATION MUST ALSO BE GIVEN TO THE FACT THAT THIS GIRDER IS CONNECTED TO GIRDER P4-7 WHICH WILL ASLO DEFLECT WHEN LOADED WITH "OTHER" LOADS.

GIRDER SCHEDULE

GIRDER DESIGN NUMBER	TOP FLANGES A	℄ A	℄ B	C	℄ C	D	℄ D	BOTTOM FLANGES H	℄ H	℄ J	K	℄ K	L	℄ L	BEARING STIFFENERS A A	BB	STUD SHEAR CONNECTOR SPACING M	N	O	P	Q	R	S	T	U	WEB PLATE (IN)	SHOP SPLICES X (FT)
No. 1	84.84	12 x 3/4	—	32.50	14 x 1 1/8	9.50	14 x 2	25.00	12 x 3/4	14 x 1 1/8	32.50	14 x 1 5/8	9.50	18 x 1 7/8	5 1/2 x 11/16	8 1/2 x 1	24@5.5	20@7.5	16@10.0	24@12.5	17@9.0	7@21.5	8@19.0	10@16.0	8@19.0	60 x 5/8	45
No. 2	84.84	12 x 3/4	—	32.50	14 x 1 3/8	9.50	18 x 1 7/8	22.00	12 x 3/4	14 x 1 1/4	32.50	14 x 1 7/8	9.50	20 x 1 7/8		8 1/2 x 1	32@5.0	23@6.5	17@9.0	28@11.0	19@8.0	7@21.5	8@19.0	10@16.0	8@19.0		45
No. 3	84.84	12 x 3/4	—	32.50	14 x 1 1/8	9.50	14 x 2	25.00	12 x 3/4	14 x 1 1/8	32.50	14 x 1 5/8	9.50	18 x 1 7/8		8 1/2 x 1	24@5.5	20@7.5	16@10.0	24@12.5	17@9.0	7@21.5	8@19.0	10@16.0	8@19.0		45
No. 4	72.74	12 x 3/4	—	31.50	14 x 1	5.00	14 x 1 3/8	72.74	12 x 3/4	—	31.50	14 x 1 1/4	5.00	14 x 1 3/4		2-6 1/2 x 5/16	23@6.0	20@6.5	14@9.5	22@12.0	14@9.5	6@21.0	7@18.5	9@15.5	8@16.0		40
No. 5	72.74	12 x 3/4	—	29.00	14 x 1	7.50	14 x 1 5/8	27.00	12 x 3/4	12 x 1	29.00	14 x 1 1/4	7.50	14 x 1 7/8			27@5.0	21@6.5	15@8.5	25@10.5	16@8.5	7@18.5	8@16.5	9@14.0	9@15.5		40
No. 6	72.74	12 x 3/4	—	29.00	14 x 1	7.50	14 x 1 5/8	27.00	12 x 3/4	12 x 1	29.00	14 x 1 1/4	7.50	14 x 1 7/8			"	"	"	"	"	"	"	"	"		40
No. 7	72.74	12 x 3/4	—	29.00	14 x 1	7.50	14 x 1 5/8	27.00	12 x 3/4	12 x 1	29.00	14 x 1 1/4	7.50	14 x 1 7/8			"	"	"	"	"	"	"	"	"		40
No. 8 *	72.74	12 x 3/4	—	31.50	14 x 1	5.00	14 x 1 3/8	72.74	12 x 3/4	—	31.50	14 x 1 1/4	5.00	14 x 1 3/4	5 1/2 x 11/16	2-6 1/2 x 5/16	23@6.0	20@6.5	14@9.5	22@12.0	14@9.5	6@21.0	7@18.5	9@15.5	8@16.0	60 x 5/8	40

FOR LOCATION OF DESIGN SEE FRAMING PLANS.

* These fascia stringers have luminare support brackets fastened to their webs. See str. sheet 46 for location and details.

NOTES:

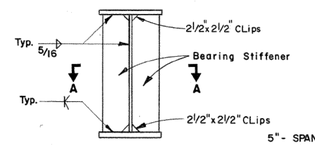
A. BEARING STIFFENERS TO BE PLACED ON EACH SIDE OF WEB. WHEN TABLE GIVES ONE PLATE ONLY THUS (5 1/2" x 11/16"), USE ONE PLATE EACH SIDE, (TWO STIFFENERS). WHEN TABLE GIVES TWO PLATES - THUS (2-6 1/2 x 11/16), USE TWO PLATES EACH SIDE (FOUR STIFFENERS).

B. 5/16" FOR PLATES TO 1-1/2" THICK
3/8" FOR PLATES OVER 1-1/2" THICK

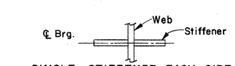
GENERAL NOTES

1. All shop butt and groove welds in the web and top and bottom flanges shall be completely inspected by radiographic or ultrasonic testing and shall be finished smooth and flush with the base metal on all surfaces by grinding in the direction of applied stress, leaving 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 inch nor five (5) percent of the thickness, whichever is smaller).
2. Except where heat shrinking is used to induce horizontal curvature into the girders, 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 the weld, the full length of the weld, or five (5) feet on either side of the test length, whichever is lesser, shall be tested.
3. Where the method of heat shrinking is used to induce horizontal curvature into the girders, all web to flange and web to bearing stiffener fillet welds shall be inspected after heat shrinking, in their entirety by the magnetic particle method.
4. 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.
5. Groove weld details shall conform to AWS D1.1-80. Where backing strips are to be left in place, they shall be made continuous for the full length of the weld.
6. Transition of thicknesses of top and bottom flanges and web joints shall be made with smooth transition of the type specified in paragraphs 9.20.1 and 9.20.2 of the AWS D1.1-80 as modified in AASHTO. Transition of widths of top and bottom flanges shall be made with smooth transition of the type specified in paragraph 9.20.3 of the AWS D1.1-80 as modified in AASHTO.
7. Shop flange splices shall be located a minimum of six (6) inches from web splices.
8. Web shop splices shall be located within the middle third of the span.
9. Bearing stiffeners and ends of girders shall be vertical after application of full dead loads.
10. Intermediate stiffeners are not required.
11. Shop and field splices of web plates, 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.
12. All welded girders shall be fabricated to the required horizontal curvature either by the method of heat shrink curving or by cutting the flanges from larger size plates.
13. Where the method of cutting the flanges is used, the Fabricator shall indicate on his shop drawings the location of any additional splices required in order to minimize the amount of waste material due to cutting flanges out of larger size plates. However, written approval by the Engineer for additional flange splices must be obtained prior to the submission of shop plans.

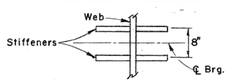
    If these splices are allowed and they are in addition to the shop and field splices indicated on the plans, the cost of these additional splices including the nondestructive testing of their welds, as determined by the Engineer, shall be at no extra expense to the State.
14. Structural steel (Low Alloy) shall conform to ASTM A588 (Weathering).
15. Diaphragm connection plates shall be located a minimum of six (6) inches from flange or web splices.
16. Welded splices, other than those indicated on the plans, will not be allowed except with the written permisson of the engineer prior to the submission of shop plans. If allowed, these splices shall be designed by the contractor, approved by the engineer and the cost of these splices including the non-destructive testing of their welds shall be at no extra expense to the State.
17. The fillet welds of every cover plate shall be inspected in their entirety by the magnetic particle method.
18. Field flange and web splices shall preferably be made at the same cross section.



BEARING STIFFENER DETAIL

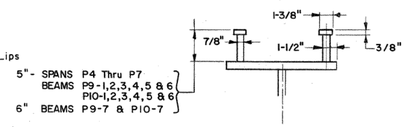


SINGLE STIFFENER EACH SIDE



DOUBLE STIFFENER EACH SIDE

SECTION A-A



5" - SPANS P4 Thru P7
BEAMS P9-1,2,3,4,5 & 6
P10-1,2,3,4,5 & 6
6" BEAMS P9-7 & P10-7

STUD SHEAR CONNECTORS

Estimated No. of Welded Stud Shear Connectors (5" high) = 11,536
Estimated No. of Welded Stud Shear Connectors (6" high) = 492

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
ROUTE I-84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

STEEL NOTES AND DETAILS

ENGINEER HAYDEN, HARDING & BUCHANAN
DESIGNER M.A.K. DRAFTSMAN L.C.A. CHECKER R.H.C.
APPROVED DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 37 of 58

42-216 42-225 383-01 444

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

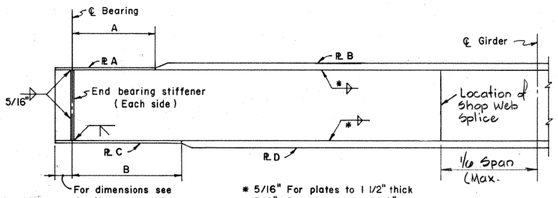
Filename: ...\0042-0325 Existing Drawings Page 37.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

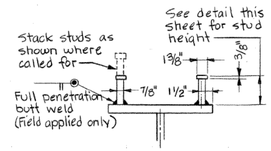
TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-38
SHEET NO. 06.38



SIMPLE SPAN GIRDER ELEVATION

Field splices are not required



STUD SHEAR CONNECTOR

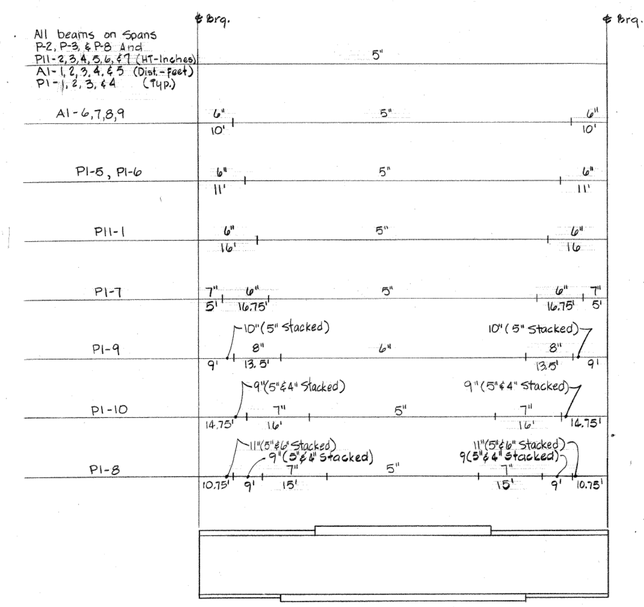
Estimated No. of Welded Stud Shear Connectors (4" high) = 176
Estimated No. of Welded Stud Shear Connectors (5" high) = 17,444
Estimated No. of Welded Stud Shear Connectors (6" high) = 1,006
Estimated No. of Welded Stud Shear Connectors (7" high) = 228
Estimated No. of Welded Stud Shear Connectors (8" high) = 92

* Note: Dead load deflection marked * other includes concrete slab, wearing surface, and parapet.

** If the girders in Span 11 are fabricated using the method of heat-curving to obtain the proper radius, then the dead load deflections shown shall be increased by 41% and the total camber adjusted accordingly. The fabricator shall indicate on his shop drawings if heat-curving is to be employed.

BEAM SCHEDULE A

BEAM NO.	SPAN (FT.)	RADIUS TO ℄ GDR. (FT.)	WEB PLATE (IN)	A (FT.)	B (FT.)	TOP PLATES (IN) A	TOP PLATES (IN) B	BOTTOM PLATES (IN) C	BOTTOM PLATES (IN) D	END BRG. STIFF (IN)	MAX. SPACING OF STUD SHEAR CONNECTORS FROM SUPPORT TO MID-SPAN (IN)	DEAD LOAD * DEFL. (FT.) STEEL	DEAD LOAD * DEFL. (FT.) OTHER	CAMBER AT CENTER OF SPAN (FT.) TOTAL DEFL.**	V.C. ORD.	EXTRA	TOTAL
A1-1, P1-1, P2-1, P3-1	109.687	—	60X9/16	—	25.75	—	12 X 3/4	14 X 1	14 X 1 3/4	5 1/2 X 11/16	23@60, 19@7, 16@8, 12@11, 10@13, REM@24	.080	.338	.418	0	.092	.510
A1-2 P1-2 P2-2 P3-2		—		41.75	21.75	12 X 3/4	12 X 7/8		14 X 2		26@5, 22@6, 18@7, 14@9.5, 11@12, REM@24	.078	.347	.425			.517
A1-3, P1-3, P2-3 P3-3		—		41.75	21.75		12 X 7/8		14 X 2		" " " " "	.078	.347	.425			.517
A1-4, P1-4, P2-4, P3-4		—		46.75	23.75		12 X 7/8		14 X 1 3/4		23@6, 19@7, 17@7.5, 13@10, 11@12, REM@24	.080	.345	.425			.517
A1-5, P1-5, P2-5, P3-5		—		46.75	23.75		12 X 7/8		14 X 1 3/4		" " " " "	.080	.345	.425			.517
A1-6 P1-6, P2-6, P3-6		—		46.75	23.75		12 X 7/8		14 X 1 3/4		" " " " "	.080	.345	.425			.517
A1-7	109.687	—		46.75	23.75	12 X 3/4	12 X 7/8		14 X 1 7/8		24@5.5, 20@6.5, 17@7.5, 13@10, 10@13, REM@24	.079	.340	.419			.511
A1-8	109.699	—		—	25.75	—	12 X 3/4	14 X 1	14 X 1 3/4		23@6, 19@7, 16@8, 12@11, 10@13, REM@24	.081	.339	.420			.512
A1-9	109.736	—		—	23.75	—		12 X 7/8	14 X 1 1/2		22@6, 19@6.5, 16@8, 12@11, 9@14.5, REM@24		.338	.419			.511
P1-7	109.687	—		—	23.25	—		12 X 7/8	14 X 1 1/2		21@6.5, 18@7, 15@8.5, 12@11, 10@13, REM@24		.345	.426			.518
P1-8	109.725	—		—	23.25	—		12 X 7/8	14 X 1 1/2		22@6, 18@7, 16@8, 12@11, 9@14.5, REM@24		.335	.416			.508
P1-9	109.837	—		—	23.25	—		12 X 7/8	14 X 1 1/2		" " " " "		.335	.416			.508
P1-10	110.023	—		—	23.5	—		12 X 7/8	14 X 1 1/2		22@6, 18@7, 16@8, 12@11, 9@11.5, REM@24		.335	.416	0	.092	.508
P2-7	109.687	—		—	23.75	—		12 X 1	14 X 1 7/8		22@6, 18@7, 16@8, 12@11, 9@14.5, REM@24	.081	.343	.424	.009	.083	.516
P2-8	109.727	—		—	23.25	—		12 X 7/8	14 X 1 1/2		21@6.5, 18@7, 15@8.5, 12@11, 10@13, REM@24	.080	.338	.418	.044	.048	.510
P2-9	109.846	—		—	25.75	—		14 X 1	14 X 1 3/4		22@6, 19@6.5, 16@8, 12@11, 9@14.5, REM@24	.080	.338	.418	.048	.044	.510
P2-10	110.044	—		—	26.0	—		14 X 1	14 X 1 3/4		22@6, 18@6.5, 16@8, 12@11, 9@14.5, REM@24	.080	.338	.418	.034	.058	.510
P2-11	110.321	—		—	24.00	—		12 X 7/8	14 X 1 1/2		" " " " "	.081	.338	.419	.021	.071	.511
P3-7	109.687	—		—	23.25	—		12 X 7/8	14 X 1 1/2		21@6.5, 18@7, 15@8.5, 12@11, 10@13, REM@24	.081	.345	.426	.064	.028	.518
P3-8	109.705	—		—	23.25	—		12 X 7/8	14 X 1 1/2		22@6, 18@7, 16@8, 12@11, 9@14.5, REM@24		.300	.381	.047	.045	.473
P3-9	109.758	—		—	23.25	—		12 X 7/8	14 X 1 1/2		" " " " "		.300	.381	.026	.066	.473
P3-10	109.846	—		—	23.25	—		12 X 7/8	14 X 1 1/2		" " " " "		.293	.374	0	.092	.466
P3-11	109.969	—		—	23.25	—		12 X 7/8	14 X 1 1/2		" " " " "		.335	.416	0	.092	.508
P3-12	110.128	—		—	23.5	—		12 X 7/8	14 X 1 1/2		" " " " "		.335	.416	0	.092	.508
P3-13	110.306	—		—	23.5	—	12 X 3/4	12 X 7/8	14 X 1 1/2		22@6, 18@7.0, 16@8, 12@11, 9@14.5, REM@24	.081	.335	.416	0	.092	.508
P8-1	125.838	—		33.75	24.75	12 X 3/4	14 X 1 1/8	14 X 1 1/4	16 X 2		24@6, 20@6.5, 16@8.5, 12@11.5, 9@15, 4@21 REM@24	.115	.415	.530	.106	0	.636
P8-2	112.691	—		39.75	21.75	12 X 3/4	12 X 1	14 X 1	14 X 2		26@5, 22@6, 19@7, 14@9.5, 11@2, REM@24	.085	.366	.451	.085	.009	.545
P8-3	99.543	—		—	22.25	—	12 X 3/4	12 X 7/8	14 X 1 1/2		25@5, 21@6, 18@7, 13@10.5, 7@12, REM@24	.051	.252	.303	.066	.017	.386
P8-4	86.396	—		—	25.00	—	12 X 3/4	12 X 3/4	14 X 1		24@5.5, 19@6.5, 16@7.5 12@10.5, REM@24	.028	.153	.181	.023	.049	.253
P8-5	73.248			—	—	—	12 X 3/4	—	12 X 3/4		26@5.5, 20@7, 15@9.5, REM@24	.014	.087	.101	0	.061	.162
P8-6	60.101			—	—	—	12 X 3/4	—	12 X 3/4		24@6, 17@8, 6@12, REM@24	.006	.041	.047	0	.050	.097
P8-7	46.953			—	—	—	12 X 3/4	—	12 X 3/4		24@6, 16@8, REM@24	.002	.015	.017	0	.039	.056
P11-1	115.898	1977.5		26.25	21.25	12 X 3/4	14 X 1 1/8	14 X 1 1/4	16 X 2		24@6, 20@6.5, 16@8.5, 12@11.5, 10@13.5, REM@24	.077	.284	.361	0	.097	.458
P11-2	114.646	1987.0		23.75	18.75		14 X 1 1/4	14 X 1 1/4	18 X 1 7/8		26@5.5, 22@6, 17@8, 13@10.5, 11@12.5 REM@24	.074	.290	.364	0	.096	.460
P11-3	113.451	1996.5		24.00	19.00		14 X 1 1/8	14 X 1 1/4	18 X 1 7/8		26@5, 22@6, 17@8, 14@9.5, 13@12 REM@24	.071	.286	.357	.067	.028	.452
P11-4	112.376	2006.0		24.50	19.00		14 X 1 1/8	14 X 1 1/4	18 X 1 7/8		25@5.5, 21@6, 17@7.5, 13@10, 13@12, REM@24	.069	.275	.344	.050	.045	.439
P11-5	111.464	2015.5	60X9/16	24.00	18.50		14 X 1 1/8	14 X 1 1/4	18 X 1 7/8	5 1/2 X 11/16	26@5, 22@6, 17@7.5, 14@9.5, 13@12 REM@24	.068	.272	.340	.060	.034	.434
P11-6	110.707	2025.0	60X9/16	24.25	19.25		14 X 1 1/8	14 X 1 1/4	18 X 1 7/8	5 1/2 X 3/4	26@5, 22@6, 17@7.5, 14@9, 13@12 REM@24	.067	.269	.336	.083	.010	.429
P11-7	110.098	2034.5	60X9/16	27.00	19.00	12 X 3/4	14 X 1	14 X 1 1/8	16 X 1 7/8	5 1/2 X 11/16	24@5.5, 20@6.5, 16@8, 12@11, 11@13 REM@24	.071	.270	.341	.099	0	.440



STUD HEIGHTS

No Scale

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
ROUTE I-84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

STEEL NOTES AND DETAILS

ENGINEER HAYDEN, HARDING & BUCHANAN
DESIGNER M.A.K. DRAFTSMAN L.C.A. CHECKER R.H.C.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 38 of 58

42-216 42-225 383-01 445

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 38.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-39
SHEET NO. 06.39

FORM NO. ENG. 158 ED. -78

F.H.W.A. REGN.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	446	807

GIRDER DESIGN Nº. 1

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 4					
SPAN P4	GIRDER P4 1	1	0.012	0.057	0.069	0.028	0.097
		2	0.024	0.109	0.133	0.051	0.184
		3	0.033	0.149	0.182	0.071	0.253
		4	0.039	0.178	0.217	0.086	0.303
		5	0.042	0.193	0.235	0.097	0.332
		6	0.042	0.195	0.237	0.103	0.340
		7	0.040	0.184	0.224	0.106	0.330
		8	0.035	0.162	0.197	0.104	0.301
		9	0.028	0.131	0.159	0.097	0.256
		10	0.020	0.095	0.115	0.086	0.201
		11	0.013	0.059	0.072	0.071	0.143
		12	0.006	0.028	0.034	0.052	0.086
		13	0.002	0.007	0.009	0.028	0.037
		CENTERLINE BEARING PIER 5					
SPAN P5	GIRDER P5 1	1	0.002	0.007	0.009	0.029	0.038
		2	0.006	0.028	0.034	0.052	0.086
		3	0.013	0.060	0.073	0.072	0.145
		4	0.020	0.096	0.116	0.086	0.202
		5	0.028	0.131	0.159	0.097	0.256
		6	0.035	0.162	0.197	0.103	0.300
		7	0.040	0.185	0.225	0.106	0.331
		8	0.042	0.196	0.238	0.104	0.342
		9	0.042	0.194	0.236	0.097	0.333
		10	0.039	0.178	0.217	0.087	0.304
		11	0.033	0.150	0.183	0.071	0.254
		12	0.024	0.109	0.133	0.052	0.185
		13	0.013	0.057	0.070	0.028	0.098
		CENTERLINE BEARING PIER 6					

GIRDER DESIGN Nº. 2

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 4					
SPAN P4	GIRDER P4 2,3 4,5 &6	1	0.012	0.059	0.071	0.028	0.099
		2	0.023	0.112	0.135	0.052	0.187
		3	0.032	0.154	0.186	0.071	0.257
		4	0.038	0.183	0.221	0.087	0.308
		5	0.041	0.199	0.240	0.097	0.337
		6	0.041	0.201	0.242	0.104	0.346
		7	0.038	0.189	0.227	0.106	0.333
		8	0.033	0.166	0.199	0.103	0.302
		9	0.027	0.133	0.160	0.097	0.257
		10	0.020	0.097	0.116	0.086	0.202
		11	0.012	0.060	0.072	0.071	0.143
		12	0.006	0.028	0.034	0.052	0.086
		13	0.001	0.007	0.008	0.028	0.036
		CENTERLINE BEARING PIER 5					
SPAN P5	GIRDER P5 2,3 4,5 &6	1	0.001	0.007	0.008	0.028	0.036
		2	0.006	0.029	0.035	0.051	0.086
		3	0.012	0.060	0.072	0.071	0.143
		4	0.019	0.097	0.116	0.086	0.202
		5	0.027	0.134	0.161	0.097	0.258
		6	0.034	0.166	0.200	0.103	0.303
		7	0.038	0.189	0.227	0.105	0.332
		8	0.041	0.201	0.242	0.104	0.346
		9	0.041	0.200	0.241	0.097	0.338
		10	0.038	0.184	0.222	0.086	0.308
		11	0.032	0.154	0.186	0.071	0.257
		12	0.023	0.112	0.135	0.052	0.187
		13	0.012	0.059	0.071	0.027	0.098
		CENTERLINE BEARING PIER 6					

GIRDER DESIGN Nº. 3

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 4					
SPAN P4	GIRDER P4 7	1	0.012	0.057	0.069	0.029	0.098
		2	0.024	0.109	0.133	0.054	0.187
		3	0.033	0.149	0.182	0.075	0.257
		4	0.039	0.178	0.217	0.092	0.309
		5	0.042	0.193	0.235	0.105	0.340
		6	0.042	0.195	0.237	0.112	0.349
		7	0.040	0.184	0.224	0.113	0.337
		8	0.035	0.162	0.197	0.109	0.306
		9	0.028	0.131	0.159	0.102	0.261
		10	0.020	0.095	0.115	0.090	0.205
		11	0.013	0.059	0.072	0.074	0.146
		12	0.006	0.028	0.034	0.054	0.088
		13	0.002	0.007	0.009	0.029	0.038
		CENTERLINE BEARING PIER 5					
SPAN P5	GIRDER P5 7	1	0.002	0.007	0.009	0.028	0.037
		2	0.006	0.028	0.034	0.051	0.085
		3	0.013	0.060	0.073	0.071	0.144
		4	0.020	0.096	0.116	0.086	0.202
		5	0.028	0.131	0.159	0.097	0.256
		6	0.035	0.162	0.197	0.103	0.300
		7	0.040	0.185	0.225	0.105	0.330
		8	0.042	0.196	0.238	0.104	0.342
		9	0.042	0.194	0.236	0.097	0.333
		10	0.039	0.178	0.217	0.086	0.303
		11	0.033	0.150	0.183	0.071	0.254
		12	0.024	0.109	0.133	0.052	0.185
		13	0.013	0.057	0.070	0.028	0.098
		CENTERLINE BEARING PIER 6					

POINT 391 - LOCATION OF P4-8 SEE STR. SH 37

GIRDER DESIGN Nº. 4

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 9					
SPAN P9	GIRDER P9 1	1	0.009	0.044	0.053	0.048	0.101
		2	0.017	0.082	0.099	0.092	0.191
		3	0.022	0.112	0.134	0.123	0.257
		4	0.026	0.130	0.156	0.168	0.324
		5	0.027	0.135	0.162	0.199	0.361
		6	0.025	0.128	0.153	0.209	0.362
		7	0.022	0.110	0.132	0.185	0.317
		8	0.017	0.084	0.101	0.157	0.258
		9	0.011	0.055	0.066	0.125	0.191
		10	0.005	0.028	0.033	0.088	0.121
		11	0.001	0.008	0.009	0.046	0.055
		CENTERLINE BEARING PIER 10					
SPAN P10	GIRDER P10 1	1	0.001	0.008	0.009	0.025	0.034
		2	0.005	0.028	0.033	0.045	0.078
		3	0.011	0.056	0.067	0.061	0.128
		4	0.017	0.085	0.102	0.072	0.174
		5	0.022	0.110	0.132	0.079	0.211
		6	0.026	0.128	0.154	0.081	0.235
		7	0.027	0.135	0.162	0.078	0.240
		8	0.026	0.130	0.156	0.077	0.233
		9	0.022	0.112	0.134	0.061	0.195
		10	0.017	0.082	0.099	0.044	0.143
		11	0.009	0.044	0.053	0.023	0.076
		CENTERLINE BEARING PIER 11					

GIRDER DESIGN Nº. 5

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 9					
SPAN P9	GIRDER P9 2	1	0.008	0.043	0.051	0.034	0.085
		2	0.015	0.081	0.096	0.066	0.162
		3	0.021	0.109	0.130	0.092	0.222
		4	0.024	0.125	0.149	0.114	0.263
		5	0.025	0.129	0.154	0.131	0.285
		6	0.023	0.121	0.144	0.144	0.288
		7	0.020	0.102	0.122	0.153	0.275
		8	0.015	0.076	0.091	0.133	0.224
		9	0.010	0.048	0.058	0.107	0.165
		10	0.005	0.023	0.028	0.075	0.103
		11	0.001	0.006	0.007	0.040	0.047
		CENTERLINE BEARING PIER 10					
SPAN P10	GIRDER P10 2	1	0.001	0.006	0.007	0.024	0.031
		2	0.005	0.023	0.028	0.044	0.072
		3	0.010	0.048	0.058	0.059	0.117
		4	0.015	0.076	0.091	0.071	0.162
		5	0.020	0.102	0.122	0.078	0.200
		6	0.023	0.121	0.144	0.080	0.224
		7	0.025	0.129	0.154	0.078	0.232
		8	0.024	0.125	0.149	0.071	0.220
		9	0.021	0.109	0.130	0.060	0.190
		10	0.015	0.081	0.096	0.045	0.141
		11	0.008	0.043	0.051	0.025	0.076
		CENTERLINE BEARING PIER 11					

GIRDER DESIGN Nº. 6

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 9					
SPAN P9	GIRDER P9 3	1	0.008	0.043	0.051	0.026	0.077
		2	0.015	0.081	0.096	0.049	0.145
		3	0.021	0.109	0.130	0.066	0.196
		4	0.024	0.125	0.149	0.079	0.228
		5	0.025	0.129	0.154	0.087	0.241
		6	0.023	0.121	0.144	0.092	0.236
		7	0.020	0.102	0.122	0.092	0.214
		8	0.015	0.076	0.091	0.087	0.178
		9	0.010	0.048	0.058	0.075	0.133
		10	0.005	0.023	0.028	0.055	0.083
		11	0.001	0.006	0.007	0.030	0.037
		CENTERLINE BEARING PIER 10					
SPAN P10	GIRDER P10 3	1	0.001	0.006	0.007	0.024	0.031
		2	0.005	0.023	0.028	0.044	0.072
		3	0.010	0.048	0.058	0.059	0.117
		4	0.015	0.076	0.091	0.071	0.162
		5	0.020	0.102	0.122	0.077	0.199
		6	0.023	0.121	0.144	0.080	0.224
		7	0.025	0.129	0.154	0.077	0.231
		8	0.024	0.125	0.149	0.070	0.219
		9	0.021	0.109	0.130	0.060	0.190
		10	0.015	0.081	0.096	0.044	0.140
		11	0.008	0.043	0.051	0.025	0.076
		CENTERLINE BEARING PIER 11					

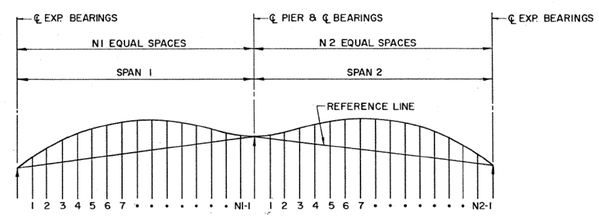
NOTE:
Girder Designs No. 1 & 2 Apply Also To Spans P6 & P7.

GIRDER DESIGN Nº. 7

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 9					
SPAN P9	GIRDER P9 4,5 &6	1	0.008	0.043	0.051	0.025	0.076
		2	0.015	0.081	0.096	0.044	0.140
		3	0.021	0.109	0.130	0.060	0.190
		4	0.024	0.125	0.149	0.071	0.220
		5	0.025	0.129	0.154	0.078	0.232
		6	0.023	0.121	0.144	0.079	0.223
		7	0.020	0.102	0.122	0.077	0.199
		8	0.015	0.076	0.091	0.071	0.162
		9	0.010	0.048	0.058	0.059	0.117
		10	0.005	0.023	0.028	0.044	0.072
		11	0.001	0.006	0.007	0.024	0.031
		CENTERLINE BEARING PIER 10					
SPAN P10	GIRDER P10 4,5 &6	1	0.001	0.006	0.007	0.024	0.031
		2	0.005	0.023	0.028	0.044	0.072
		3	0.010	0.048	0.058	0.059	0.117
		4	0.015	0.076	0.091	0.071	0.162
		5	0.020	0.102	0.122	0.078	0.200
		6	0.023	0.121	0.144	0.079	0.223
		7	0.025	0.129	0.154	0.077	0.231
		8	0.024	0.125	0.149	0.071	0.220
		9	0.021	0.109	0.130	0.060	0.190
		10	0.015	0.081	0.096	0.045	0.140
		11	0.008	0.043	0.051	0.025	0.076
		CENTERLINE BEARING PIER 11					

GIRDER DESIGN Nº. 8

		PT.	STRUCT. STEEL	OTHER DEAD LOADS	TOTAL DEAD LOADS	VERTICAL CURVE	TOTAL CAMBER
		CENTERLINE BEARING PIER 9					
SPAN P9	GIRDER P9 7	1	0.009	0.044	0.053	0.025	0.078
		2	0.017	0.082	0.099	0.044	0.143
		3	0.022	0.112	0.134	0.060	0.194
		4	0.026	0.130	0.156	0.071	0.227
		5	0.027	0.135	0.162	0.077	0.239
		6	0.025	0.128	0.153	0.080	0.233
		7	0.022	0.110	0.132	0.078	0.210
		8	0.017	0.084	0.101	0.071	0.172
		9	0.011	0.055	0.066	0.060	0.126
		10	0.005	0.028	0.033	0.051	0.085
		11	0.001	0.008	0.009	0.024	0.033
		CENTERLINE BEARING PIER 10					
SPAN P10	GIRDER P10 7	1	0.001	0.008	0.009	0.013	0.022
		2	0.005	0.028	0.033	0.021	0.054
		3	0.011	0.056	0.067	0.034	0.101
		4	0.017	0.085	0.102	0.048	0.150
		5	0.022	0.110	0.132	0.058	0.190
		6	0.026	0.128	0.154	0.062	0.216
		7	0.027	0.135	0.162	0.063	0.225
		8	0.026	0.130	0.156	0.059	0.215
		9	0.022	0.112	0.134	0.051	0.185
		10	0.017	0.082	0.099	0.038	0.137
		11	0.009	0.044	0.053	0.021	0.074
		CENTERLINE BEARING PIER 11					



TWO-SPAN CONTINUOUS

NOTE:
DEAD LOAD DEFLECTION MARKED "OTHER" INCLUDES CONCRETE SLAB, WEARING SURFACE AND PARAPET.

THIS SHEET NOT CORRECTED

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD

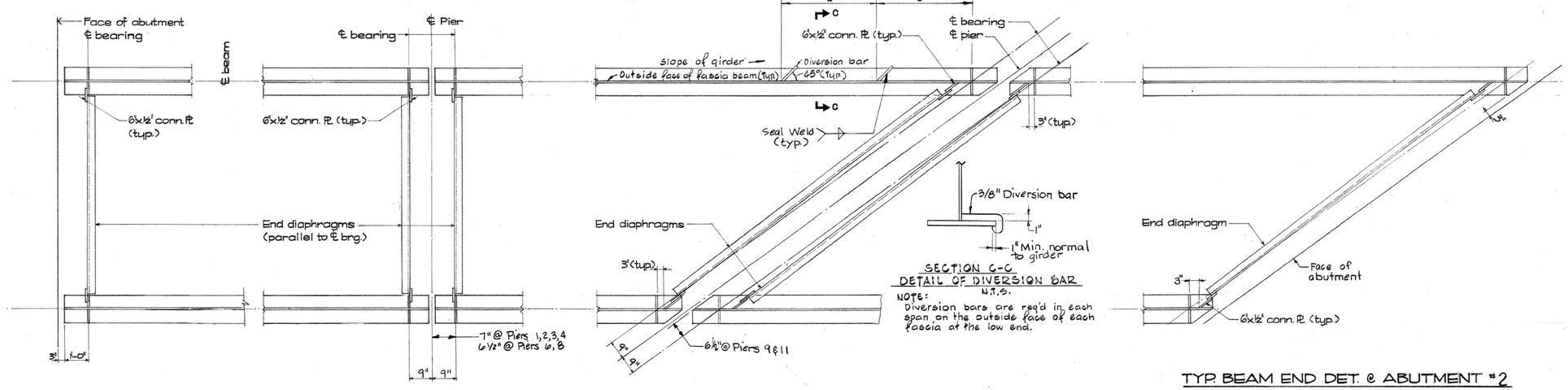
RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

DEAD LOAD DEFLECTION AND CAMBER TABLES

NO.	DATE	DESCRIPTION

FORM NO. ENG. 158 ED. 1-79

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(916)3	42-216	1983	I-84,I5	447	807

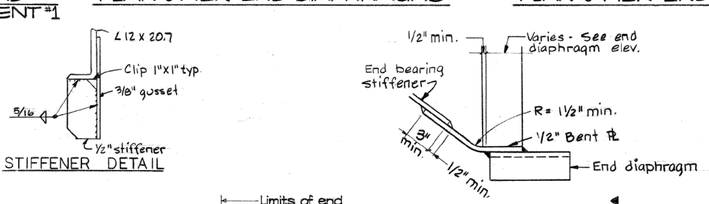


TYP. BEAM END DET. @ ABUTMENT #2

TYP. BEAM END DET. @ ABUTMENT #1

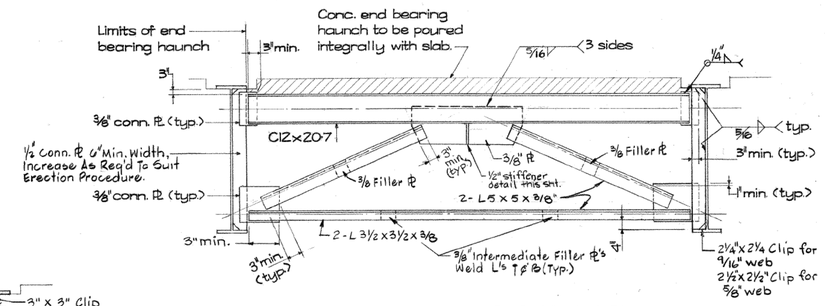
PLAN @ PIER END DIAPHRAGMS

PLAN @ PIER END DIAPHRAGMS



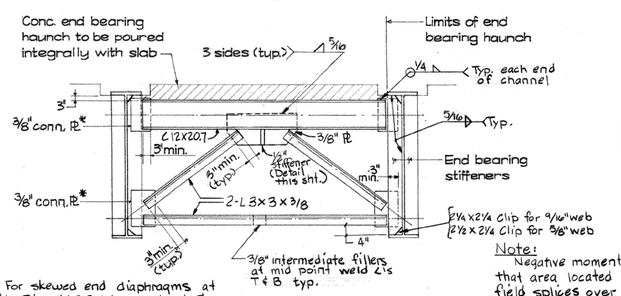
STIFFENER DETAIL

DETAIL "A"



TYPICAL END BEARING DIAPHRAGM

Use on Piers 9 & 11, Abutment #2

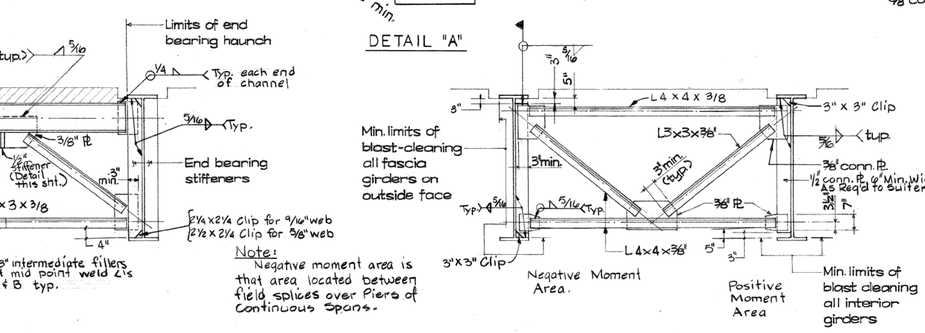


*NOTE: For skewed end diaphragms at abut. #1, Piers #1,2,3,&4, use bent Pl. See detail "A", this sht.

Note:
Negative moment area is that area located between field splices over Piers of Continuous Spans.

TYPICAL END BEARING DIAPHRAGM

Use on Abut. #1, Piers #1, 2, 3, 4, 6 & 8



TYP. INTERMEDIATE DIAPHRAGM & LIMITS OF BLAST-CLEANING

NOTE:
For Curved Beams In Span P11, Connection Plate Is To Be Welded to Both Top And Bottom Flanges Using 3"x3" Clip. See Detail Str. Sh. 55.

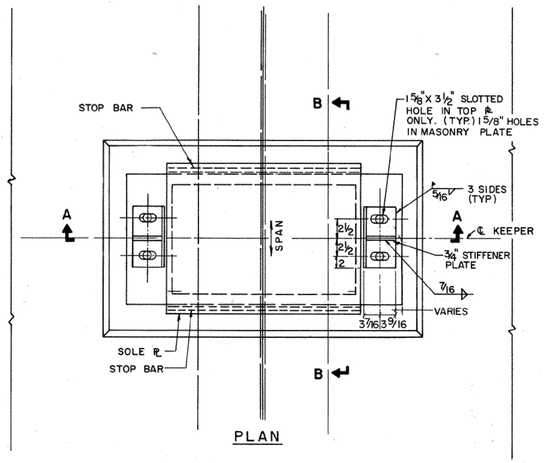
NOTE:
All diaphragm connection welds all around both sides, unless noted otherwise.

THIS SHEET NOT CORRECTED

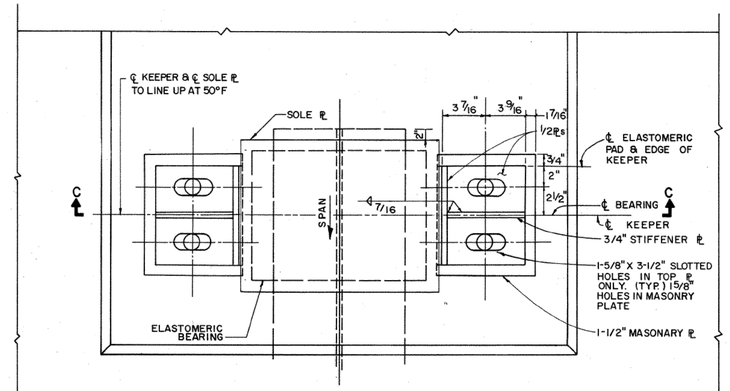
NO.	DATE	DESCRIPTION

FORM NO. ENG. 159 ED. 1-76

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84,15	448	807



PLAN



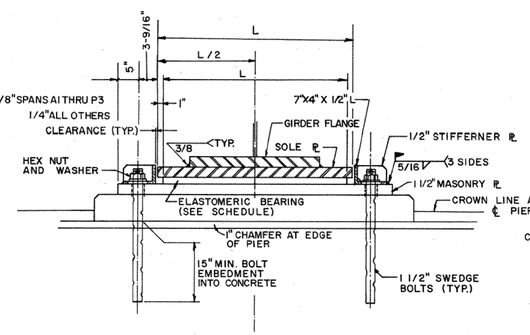
PLAN

BEARING PAD NO.	BEARING TYPE	BEARINGS USED THIS STRUCTURE	INCHES SOLE PLATE L	SOLE PLATE W	SOLE PLATE T_S	ELASTOMERIC BEARING PAD L	ELASTOMERIC BEARING PAD W	ELASTOMERIC BEARING PAD T_R	NO. OF LAMINAE
EE-1	EXP.	*	18	14	1 3/4"	16	12	2.875	5
EE-2	EXP.	*	18	14	1 3/4"	16	12	3.500	6
EE-3	EXP.	*	18	16	1 3/4"	16	14	2.875	5
EE-4	EXP.	*	18	16	1 3/4"	16	14	3.500	6
EE-5	EXP.		18	16	1 3/4"	16	14	4.125	7
EE-6	EXP.		20	18	1 3/4"	18	16	4.125	7
EE-7	EXP.		20	20	1 3/4"	18	18	7.250	12
EE-8	EXP.		34	22	1 3/4"	32	20	4.125	7
EF-1	FIX.	*	26	26 3/4	1 3/4"	24	22	1.000	0
EF-2	FIX.		34	24 3/4	1 3/4"	32	20	1.063	0
EF-3	FIX.		36	24 3/4	1 3/4"	34	20	1.125	0
EF-4	FIX.		26	36 3/4	1 3/4"	24	32	1.188	0
EF-5	FIX.	*	20	16 3/4	1 3/4"	18	12	0.625	0
EF-6	FIX.		36	26 3/4	1 3/4"	34	22	1.188	0

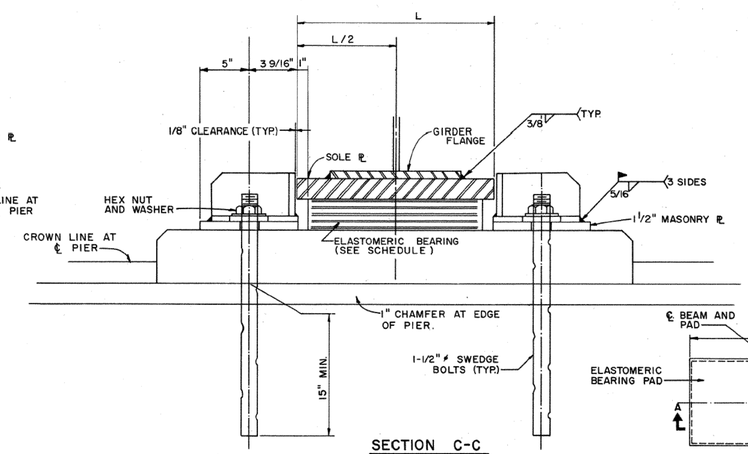
FOR LOCATIONS OF VARIOUS TYPES OF BEARINGS USED, SEE PLAN OF PIERS AND ABUTMENTS.

NOTES:

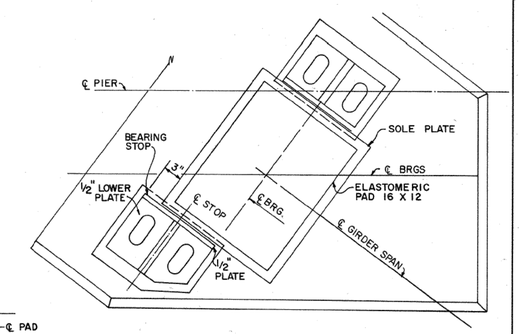
KEEPER DETAIL OF EXPANSION BEARINGS APPLIES TO GIRDER NO'S 3,4 & 5 IN SPANS P4 THRU P11, GIRDERS NO'S 3,4,5,& 6 IN SPANS A1, P1, AND GIRDERS NO'S 4,5, 6 & 7 IN SPANS P2, P3.



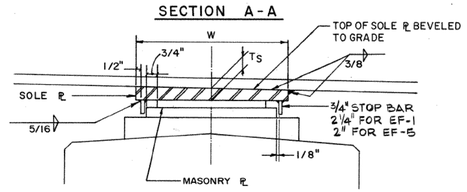
SECTION A-A



SECTION C-C



BEARING LAYOUT - SKEWED PIERS 9 & 11

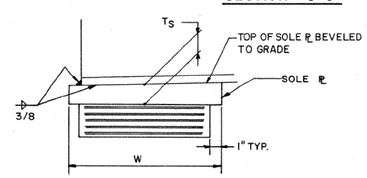


SECTION B-B

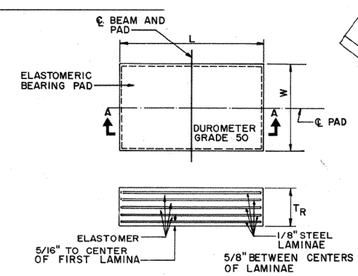
NOTE:

DETAIL APPLIES TO ALL GIRDERS AT FIXED BEARING LOCATIONS.

DETAIL FIXED BEARING



DETAIL EXPANSION BEARING



SECTION A-A

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

BEARING PAD DETAILS

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M.A.K. DRAFTSMAN V.A.S. CHECKER R.H.C.
APPROVED J. F. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 41 of 58

THIS SHEET NOT CORRECTED

42-216 42-225 383-01 448

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 41.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

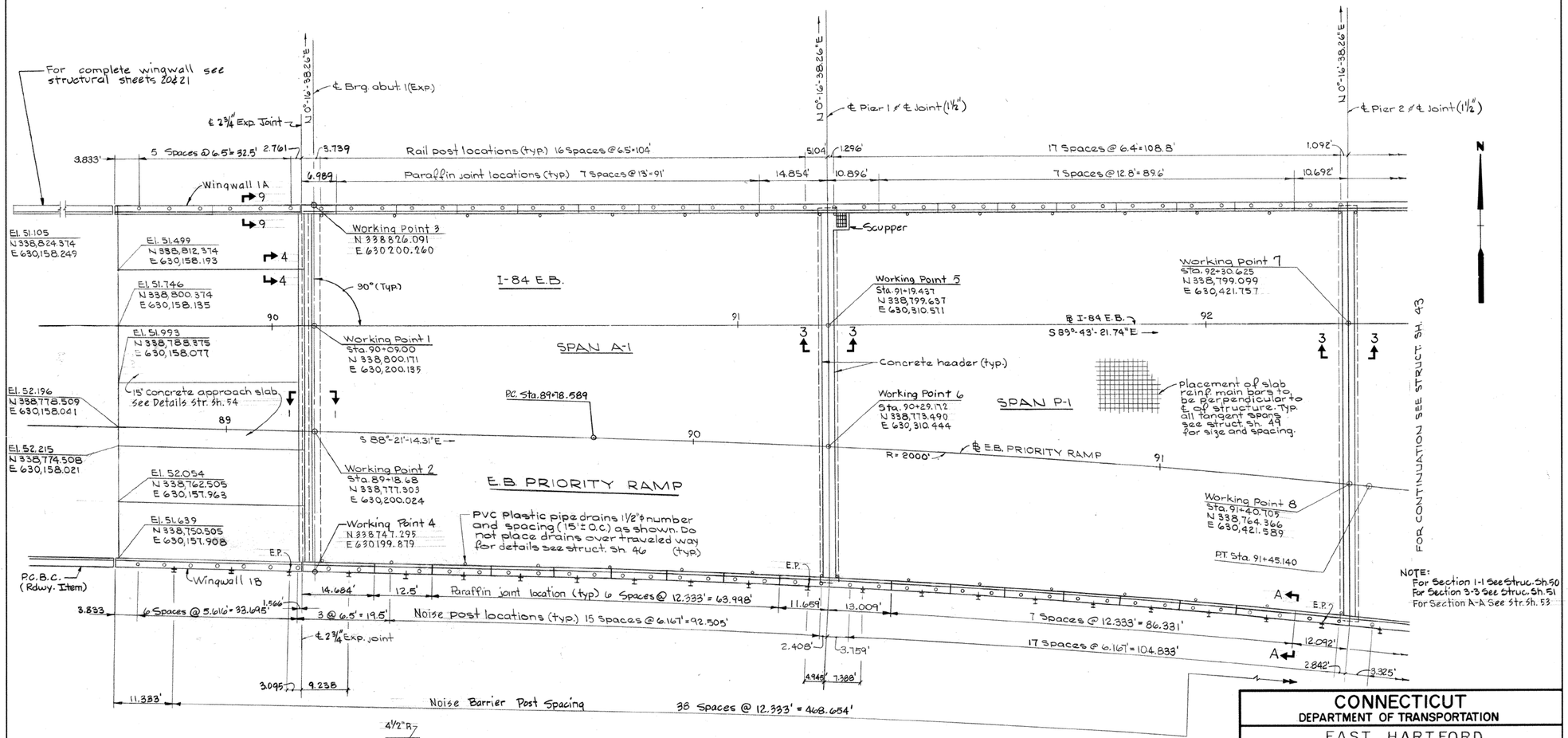
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

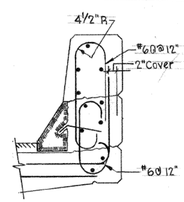
TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-42
SHEET NO. 06.42

FORM NO. ENG. 158 ED. 1-76

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84,15	449	807





SECTION B-B

Note:
For additional information see sloped curb & Parapet Detail Structural Sh. 49

Note:
Dimensions for rail spacing and paraffin coated joints, taken along outside face of parapet. (Typ.)
EP = Expansion Post for Noise Barrier see Str. Sh. 33
For Scuppers, Drains & Related Items, see Str. Sh. 54 & 55

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N B AND ROUTE 15 S B

DECK PLAN SHEET 1 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.K. DRAFTSMAN C.P.T. CHECKER R.H.C.
APPROVED J. J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 42 of 58

42-216 42-225 383-01 449

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 42.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

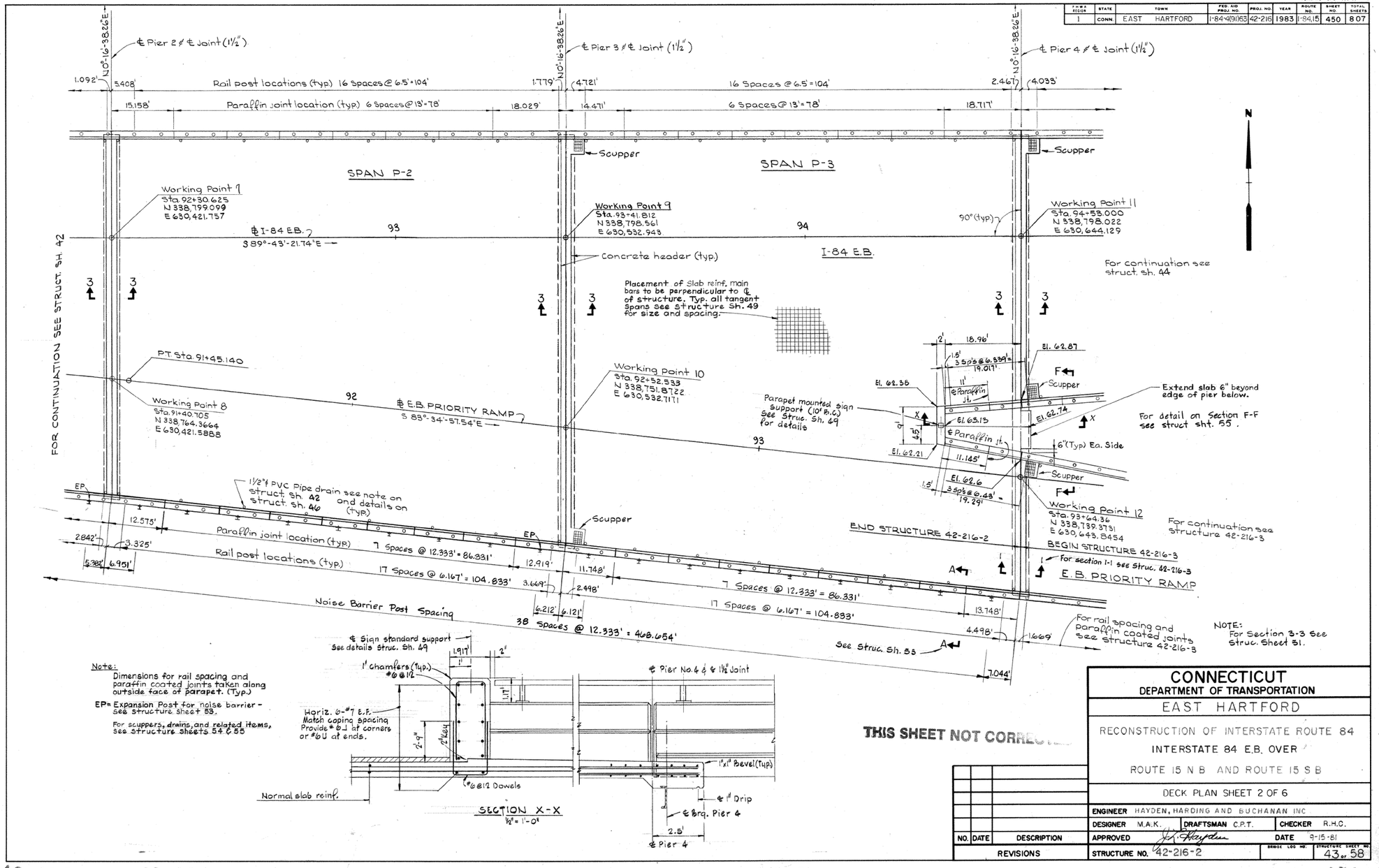
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-43
SHEET NO. 06.43

FORM NO. ENG. 158 ED. 1-76

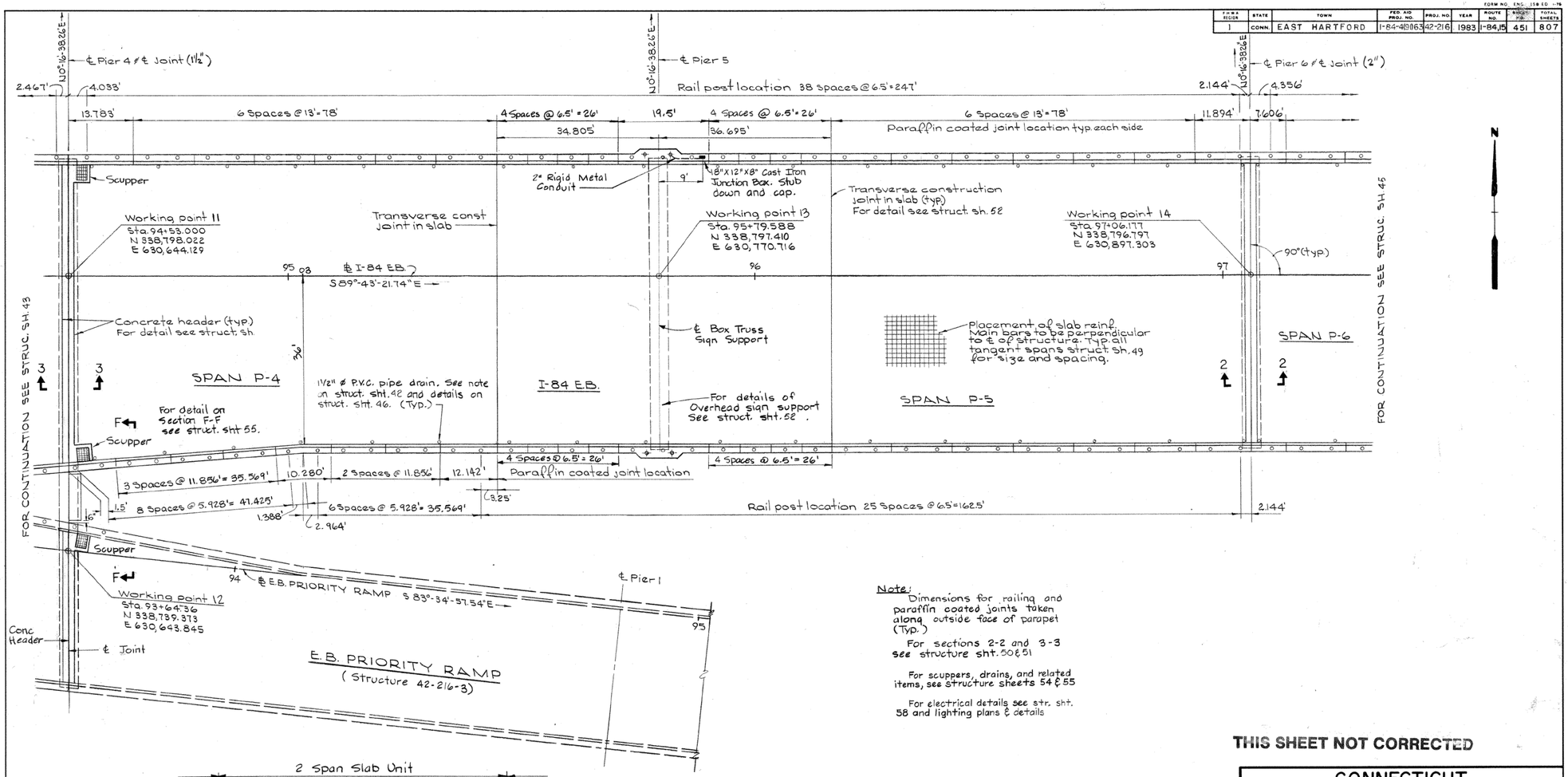
F.H.W.A. REGION	STATE	TOWN		FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST	HARTFORD	I-84-4(91)163	42-216	1983	I-84,15	450	807



NO.	DATE	DESCRIPTION

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(086)42-216		1983	I-84,15	451	807

FORM NO. ENG. 158 ED. 1-78

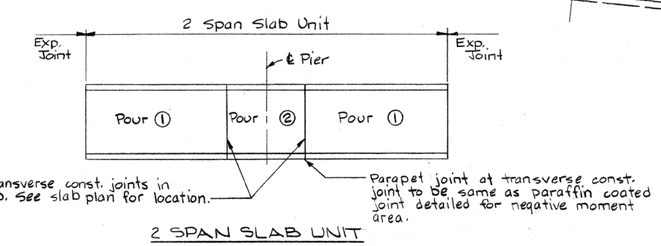


Note:
Dimensions for railing and paraffin coated joints taken along outside face of parapet (Typ.)

For sections 2-2 and 3-3 see structure sht. 50 & 51

For scuppers, drains, and related items, see structure sheets 54 & 55

For electrical details see str. sht. 58 and lighting plans & details



2 SPAN SLAB UNIT

NOTE:
Concrete for deck slab shall be placed in a uniform manner across the entire width of the deck, beginning from low end of pour and continuing to high end. No heavy concentration of wet concrete shall be allowed. Concrete shall be uniformly spread so as to keep depth of wet concrete as close as possible to design thickness at all times. Slab pours shall follow numerical sequence shown. A minimum of three (3) days shall elapse between pours.

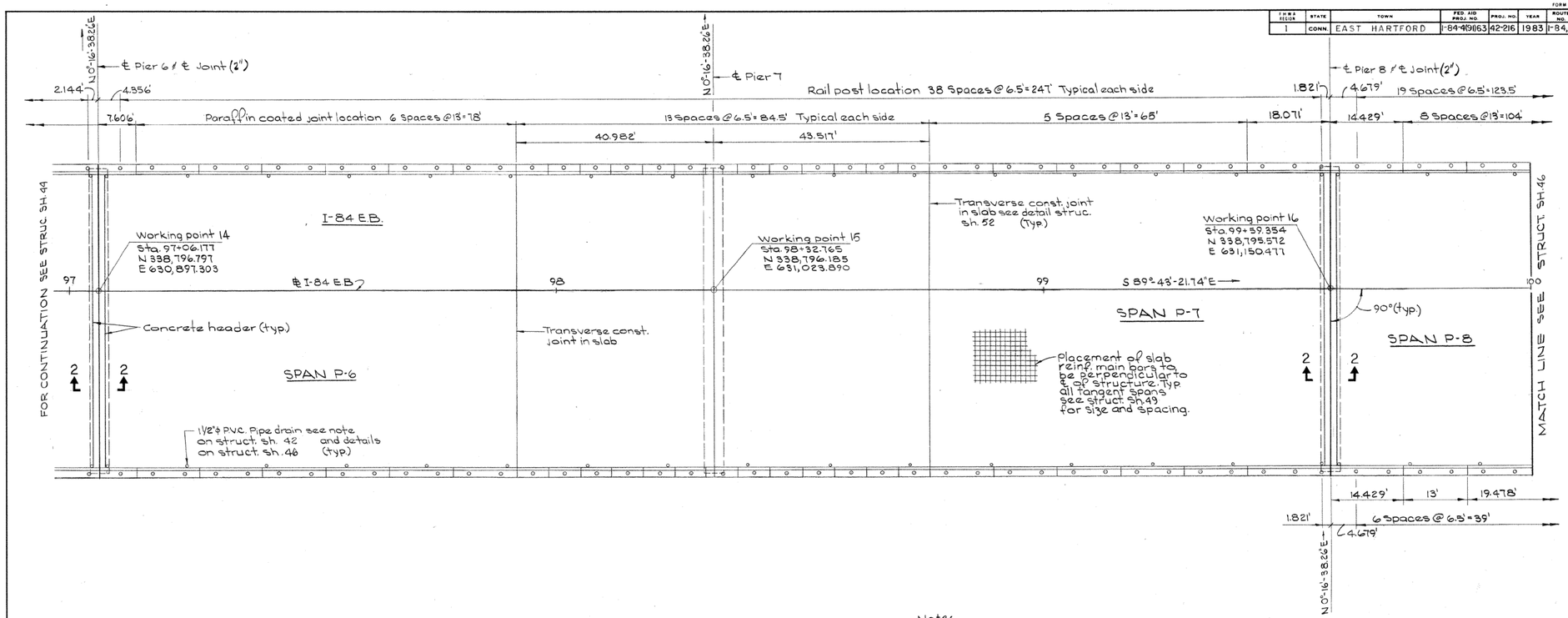
TYPICAL SEQUENCE OF SLAB POURS

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(9)163	42-216	1983	I-84,I5	452	807

FORM NO. ENG. 158 ED. 1-78



Note:
Dimensions for railing and paraffin coated joints taken along outside face of parapet (Typ.)
For Section 2-2 See Struct. Sh. 50.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 EB OVER
ROUTE 15 N B AND ROUTE 15 S B

DECK PLAN SHEET 4 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.K. DRAFTSMAN L C A CHECKER R.H.C.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 45 of 58

42-216 42-225 383-01 452

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 45.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

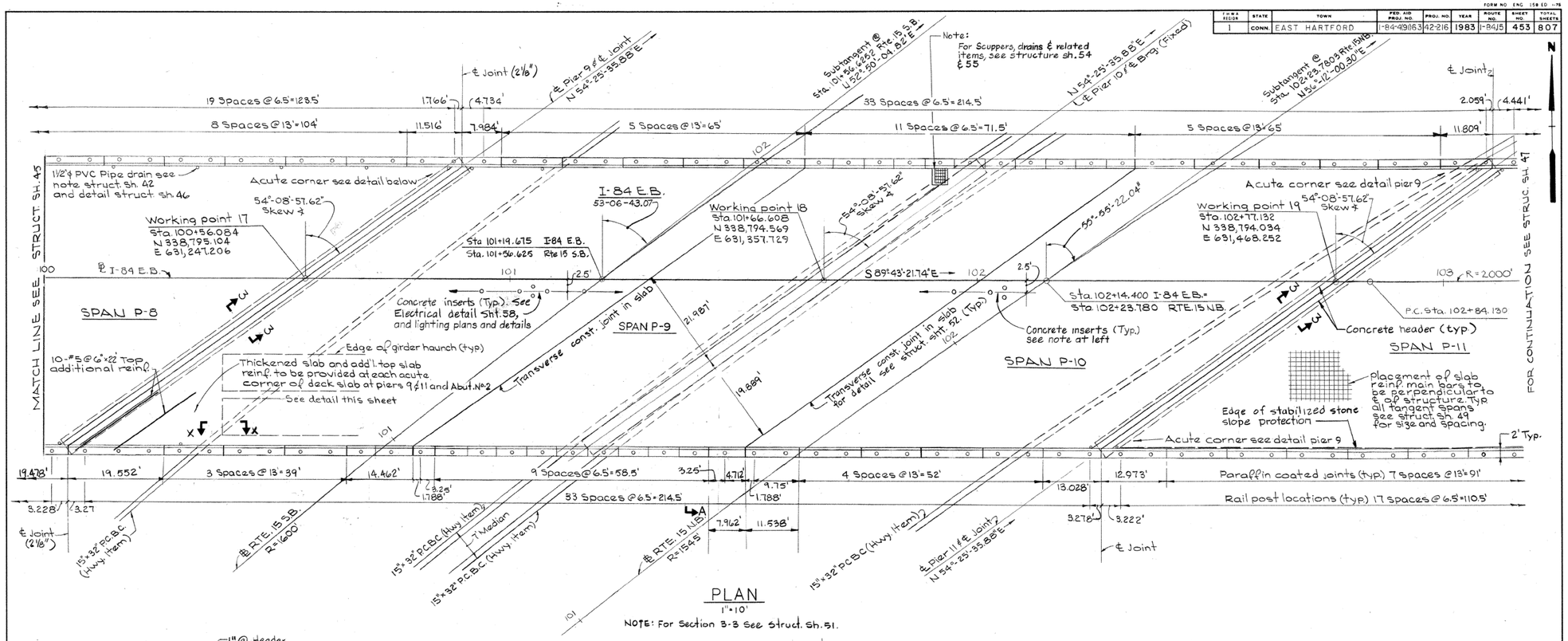
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-46
SHEET NO. 06.46

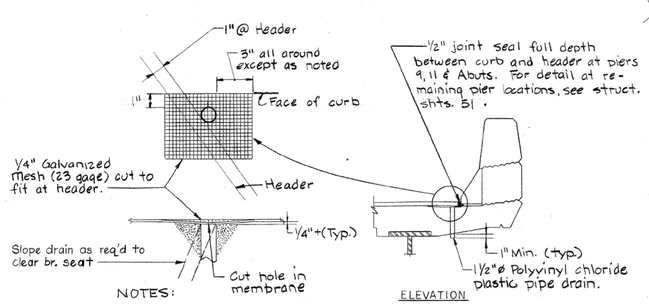
FORM NO. ENG. 159 ED. 1-76

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(916)3	42-216	1983	I-84/5	453	807



PLAN
1" = 10'

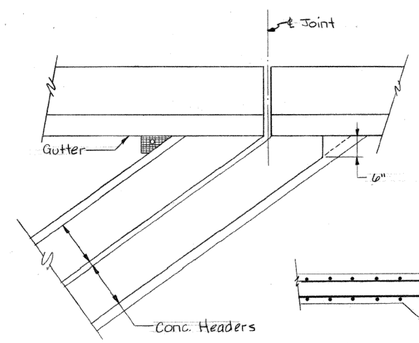
NOTE: For Section B-B See Struct. Sh. 51.



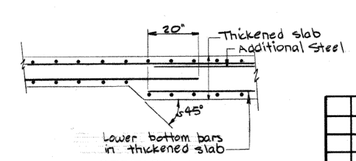
ELEVATION

NOTES:
Polyvinyl Chloride Plastic Pipe Drains 1 1/2" shall be placed thru slabs where shown on the plans.
The cost of furnishing and installing 1/4" square Galvanized Mesh shall be included in the contract bid price per ton for "Bituminous Concrete - Class (12)."

DETAIL OF 1 1/2" POLYVINYL CHLORIDE PLASTIC PIPE DRAIN



PLAN



SECTION X-X

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 EB OVER
ROUTE 15 N B AND ROUTE 15 S B

DECK PLAN SHEET 5 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.K. DRAFTSMAN L.C.A CHECKER R.H.C.
APPROVED J. J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 46, 58

42-216 42-225 383-01 453

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 46.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

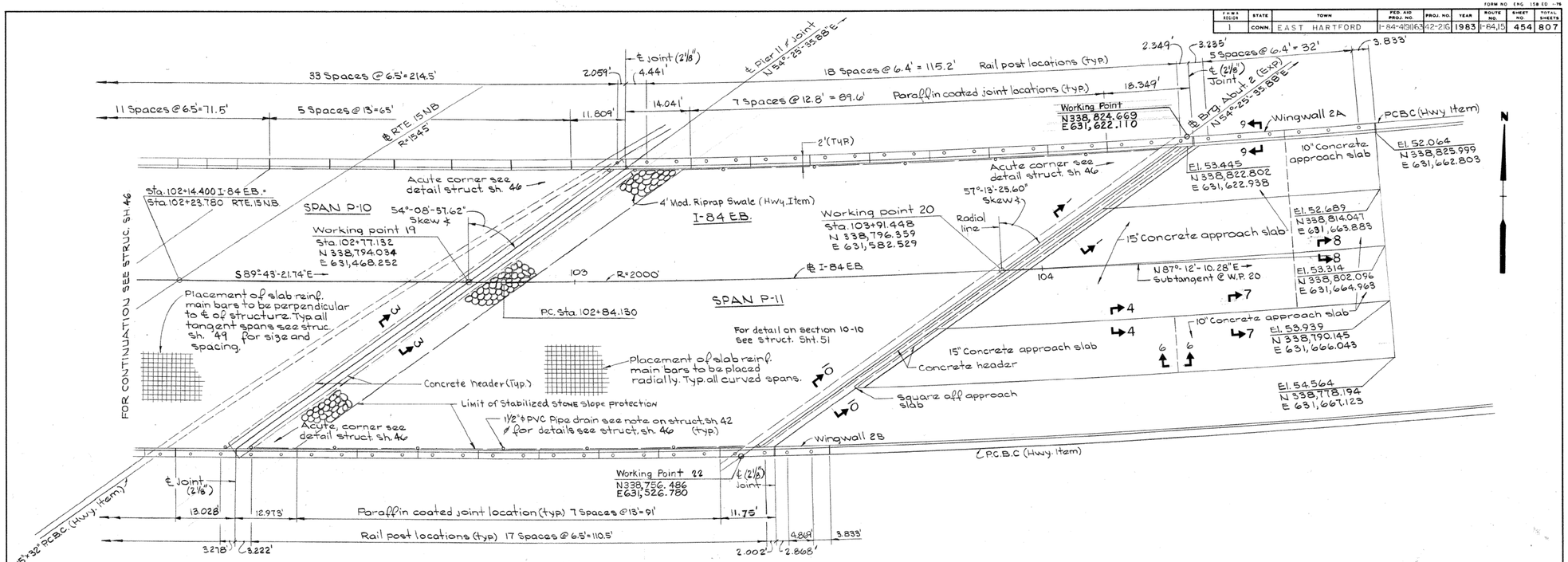
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-47
SHEET NO. 06.47

FORM NO. ENG. 158 ED. 1-76

F.H.W.A. REGN.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(01)163	42-216	1983	I-84,15	454	807



Note:
Dimensions for rail spacing and paraffin coated joints, taken along outside face of parapet. (Typ.)
For Section 1-1 See Struct. Sh. 50
For Section 3-3 and 10-10 See Struct. Sh. 51
For Sections 4-4, 5-5, 6-6, 7-7, 8-8 & 9-9 See Struct. Sh. 54.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 EB OVER
ROUTE 15 N B AND ROUTE 15 S B

DECK PLAN SHEET 6 OF 6

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER M.A.K. | DRAFTSMAN L.C.A. | CHECKER R.H.C.
APPROVED J. T. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOC. NO. | STRUCTURE SHEET NO. 47 of 58

42-216 42-225 383-01 454

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 47.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

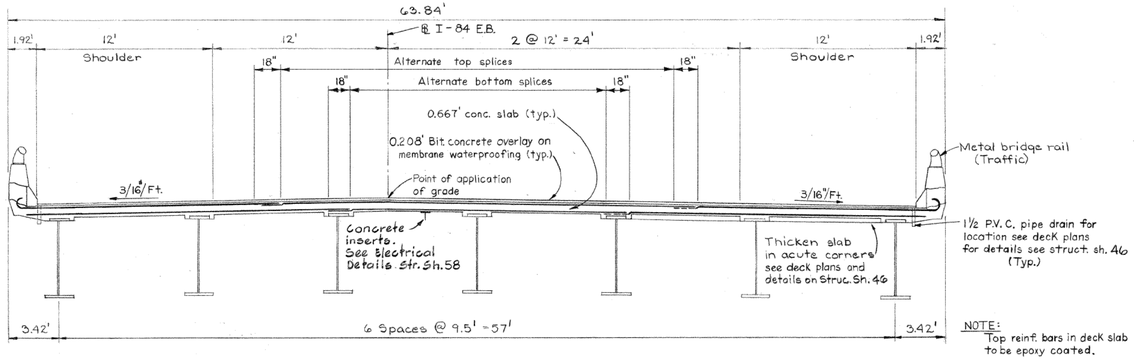
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-48**
SHEET NO. **06.48**

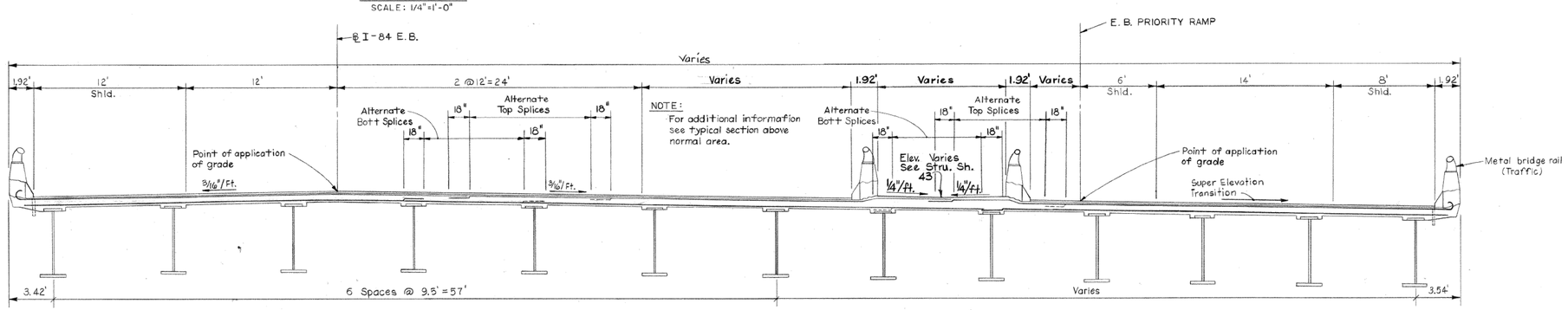
FORM NO. ENG. 158 ED. 1-76

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	455	807

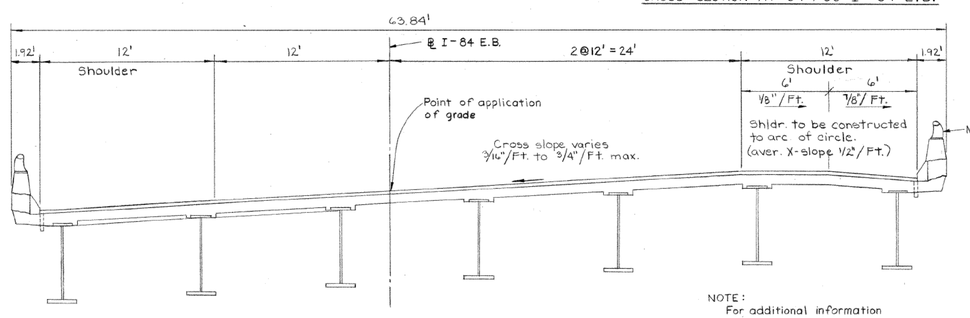


NOTE:
Top reinf. bars in deck slab to be epoxy coated.

TYPICAL BRIDGE SECTION
NORMAL AREA
SCALE: 1/4"=1'-0"

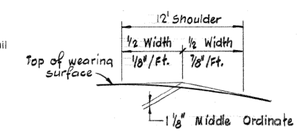


CROSS SECTION AT 94 + 50 I-84 E.B.



NOTE:
For additional information see typical section above normal area.

TYPICAL BRIDGE SECTION
SUPERELEVATION AREA
SCALE: 1/4"=1'-0"



DETAIL OF SHOULDER CONSTRUCTION

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

TYPICAL BRIDGE SECTIONS

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER MAK | DRAFTSMAN JMS | CHECKER RHC
APPROVED J. F. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 48 of 58

42-216 42-225 383-01 455

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 48.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

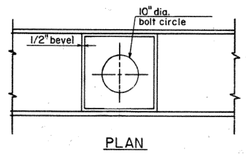
TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-49
SHEET NO. 06.49

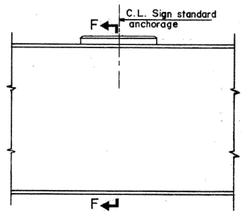
FORM NO. ENG. 158 ED. 1-75

FIRM & FEDER.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4-(91)63	42-216	1983	I-84,15	456	807

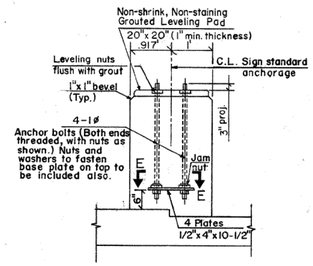
NOTES: Anchor Bolts and nuts shall be manufactured of steel conforming to the following requirements.
Square Leveling Nuts may be low carbon steel.
Bolts – ASTM A 449.
Hex Nuts – ASTM A 536 Grade DH.
Anchor bolts and nuts to be galvanized in accordance with ASTM A 36.
Structural Steel P's shall conform to ASTM A 36.
Cost of furnishing and installing anchor bolts, nuts, & steel plates to be paid for at the contract unit price per pound for "Deformed Steel Bars.



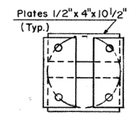
PLAN



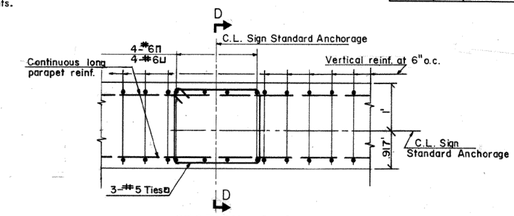
ELEVATION



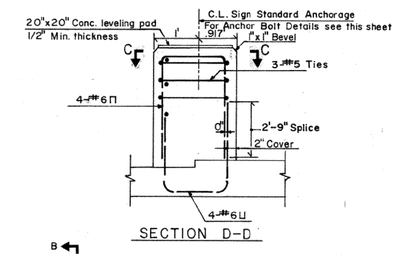
SECTION F-F



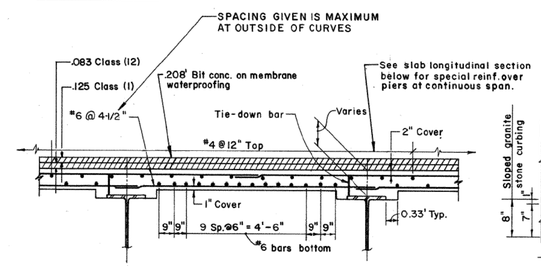
SECTION E-E



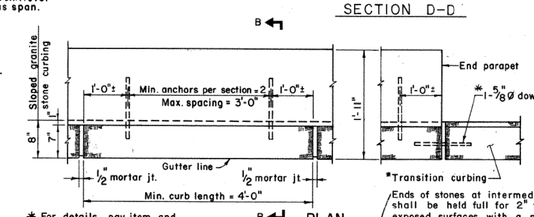
SECTION C-C



SECTION D-D



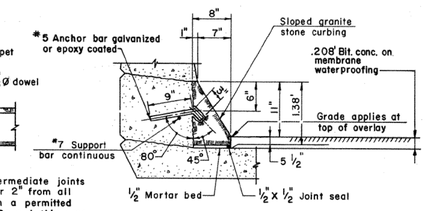
TYPICAL SLAB SECTION



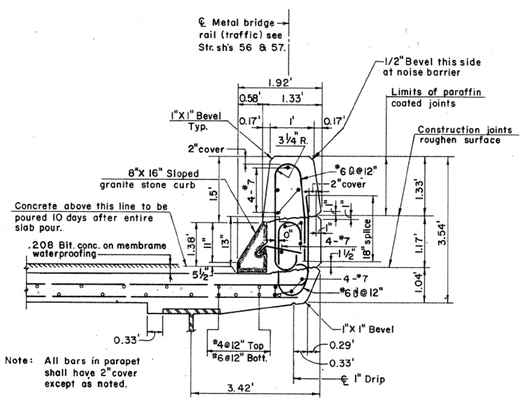
* For details, pay item and specifications, see roadway plans.

B PLAN

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"

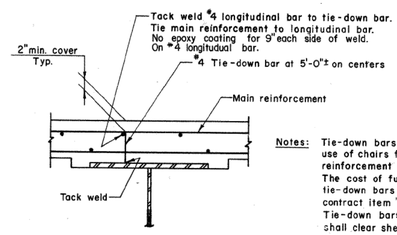


SECTION B-B



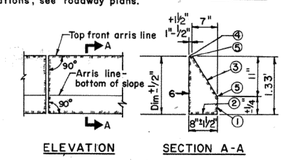
Note: All bars in parapet shall have 2" cover except as noted.

SLOPED CURB & PARAPET DETAIL



Notes: Tie-down bars do not exclude the use of chairs for supporting the reinforcement mat.
The cost of furnishing and placing tie-down bars to be included in the contract item "Deformed Steel Bars."
Tie-down bars and longitudinal bars shall clear shear connectors.

TIE DOWN FOR SLAB REINFORCEMENT



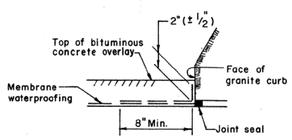
ELEVATION SECTION A-A PLAN

SLOPED GRANITE STONE CURBING FOR BRIDGES

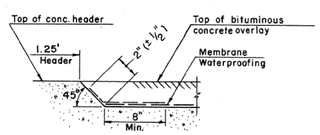
TOLERANCE NOTES

1. Smooth, quarry split surface free of drill holes with proj. or depr. not over 1/2".
2. Sawed or split surface approximating a true plain to the specified dimensions with projections no greater than 1/4".
3. Sawed surface free of all quarry sawing and cutting marks with allowable depr. or proj. not over 1/4".
4. Sawed surface approximating a true plane with no proj or depr. greater than 1/4".
5. These arris lines shall be straight and true within a ± tolerance of 1/4".
6. Split surface shall be free of any projections over 1".

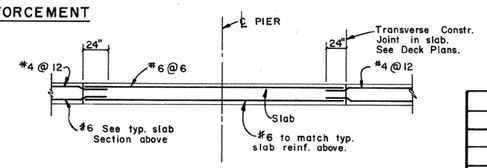
THIS SHEET NOT CORRECTED



TREATMENT OF MEMBRANE WATERPROOFING AT GUTTER



TREATMENT OF MEMBRANE WATERPROOFING AT HEADERS



SLAB LONGITUDINAL SECTION AT CONTINUOUS PIERS

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

PARAPET, SLAB & SLOPED CURB DETAILS

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER R.H.L. DRAFTSMAN C.P.T. CHECKER M.A.K
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 49 OF 58

42-216 42-225 383-01 456

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 49.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

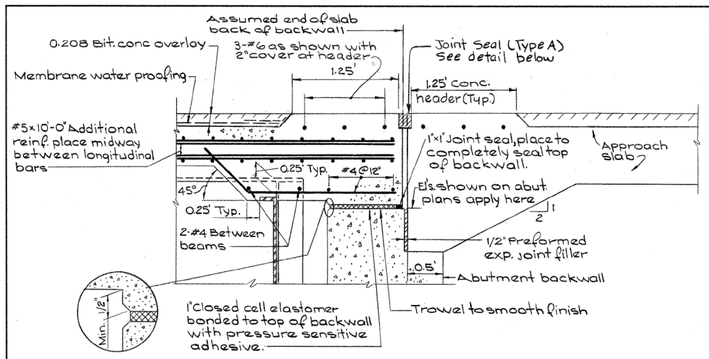
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

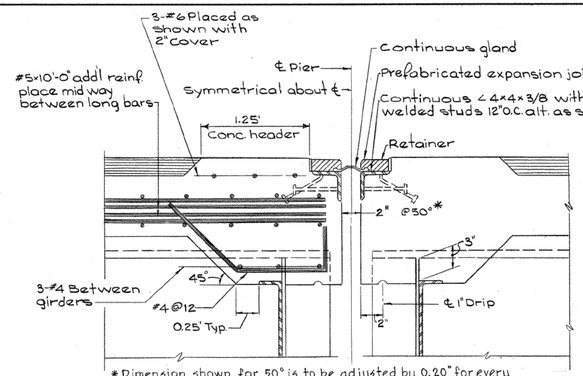
PROJECT NO. 0042-0325
DRAWING NO. E-50
SHEET NO. 06.50

FORM NO. ENG. 158 ED. 1-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84 4(19)163	42-216	1983	I-84,15	457	807



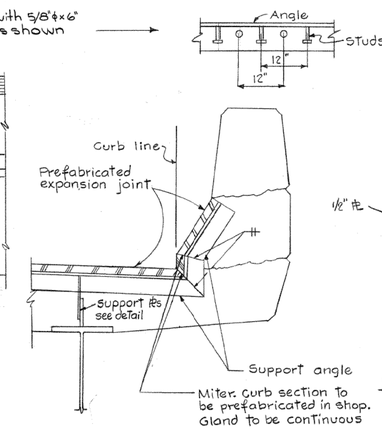
SECTION 1-1



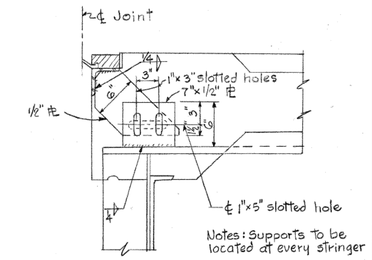
*Dimension shown for 50° is to be adjusted by 0.20" for every 10° rise or fall in temperature. Increase dimension for temp. fall and decrease dimension for temp. rise.

SECTION 2-2
1 1/2" = 1'-0"

Note: Section 2-2 applies at piers 6 and 8. Joint to have a total movement capacity of 3 inches.

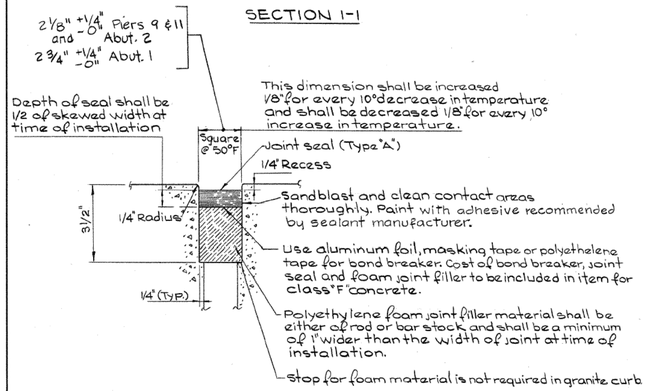


SECTION A-A
1" = 1'-0"

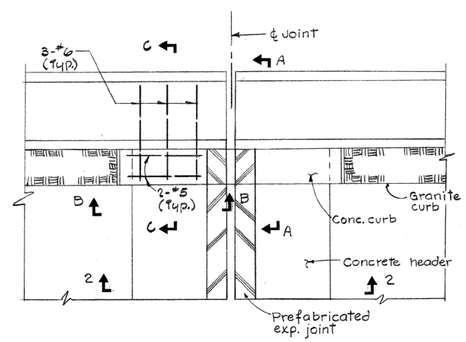


Notes: Supports to be located at every stringer

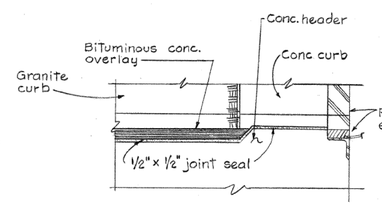
SUPPORT DETAIL
1 1/2" = 1'-0"



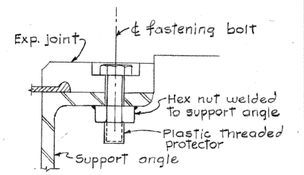
JOINT DETAIL
NTS



PLAN OF JOINT
1" = 1'-0

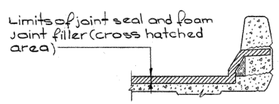


SECTION B-B
1" = 1'-0"



FASTENING DETAIL
NTS

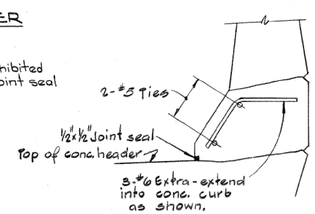
THIS SHEET NOT CORRECTED



LIMITS OF JOINT SEAL AND FOAM JOINT FILLER

Note:
After joint seal has been applied, vehicles will be prohibited from running directly on the joint until after the joint seal has reached its final cure.

DETAIL OF JOINT SEAL
(TYPE A)



SECTION C-C

EXPANSION JOINT DETAILS

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

JOINT DETAIL

ENGINEER HAYDEN, HARDING AND BUCHANAN INC
DESIGNER M.A.H. DRAFTSMAN S.S. CHECKER R.J.L.C.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 50 of 58

42-216 42-225 383-01 457

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 50.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

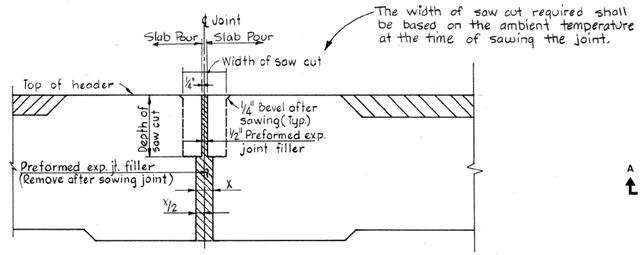
PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-51
SHEET NO. 06.51

FORM NO. ENG-158 ED. 1-75

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-409(63)	42-216	1983	I-84,15	458	807



JOINT DETAIL

SEE TABLE A

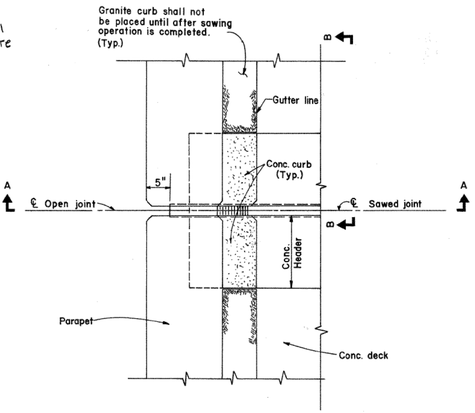
NOTES:

NOTE WELL: It is important that the joint be constructed exactly as detailed.
See TABLE A for joint dimensions.
Saw cutting will be permitted seven days after the final pour at the joint.
The compression seal shall not be install above temperatures at which the width of joint is less than 60 % of the nominal width of the seal.

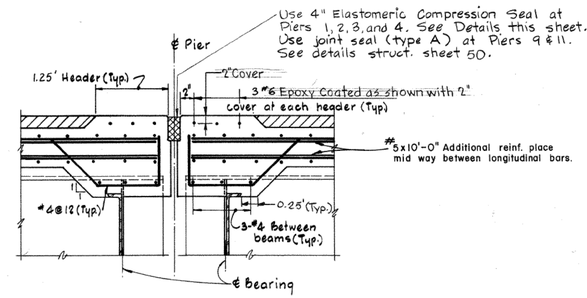
COMPRESSION SEAL DIMENSIONS					
	NOM. WIDTH	A	B	Thickness a	Thickness b
TYPE "A"	4"	4.000" +.250" −.000"	4.719" ± .250"	.250" +.047" −.031"	.188" +.047" −.016"
TYPE "C"	4"	4.000" +.313" −.000"	4.000" ± .250"	.250" +.047" −.032"	.125" +.032" −.016"
TYPE "D"	4"	4.000" +.313" −.000"	4.375" ± .250"	.250" +.047" −.016"	.188" +.047" −.016"

Elastomeric compression seal		JOINT DIMENSIONS						
		Width of saw cut			Depth of saw cut			X
NOM. WIDTH	TYPE	Ambient temperature range at time of sawing joint			Elastomeric compression seal Type			
		30° - 50°	50° - 70°	70° - 90°	"A"	"C"	"D"	
4"	"A","C" or "D"	2 3/4"	2 9/16"	2 3/8"	5 3/4"	5"	5"	1 1/2"

TABLE A

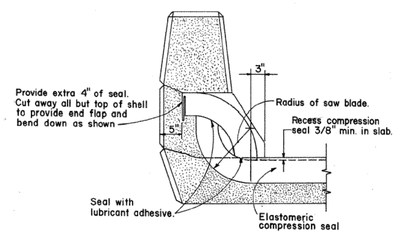


PLAN

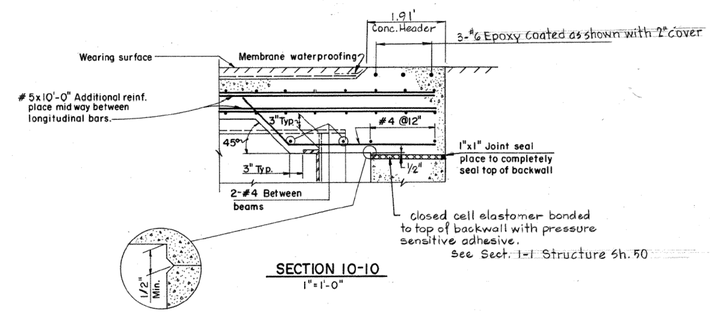


DECK HAUNCH AT PIER

SECTION 3-3

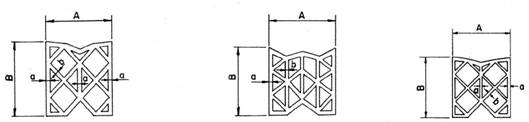


SECTION A-A



SECTION 10-10

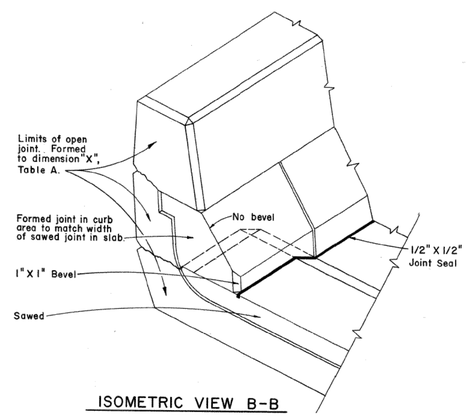
1"=1'-0"



TYPE A TYPE C TYPE D

NOTE

Elastomeric Compression Seal Joints to be used at Piers 1, 2, 3, and 4.



ISOMETRIC VIEW B-B

DETAIL OF ELASTOMERIC COMPRESSION SEAL JOINT

THIS SHEET NOT CORRECTED

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

JOINT DETAILS

NO.	DATE	DESCRIPTION

REVISIONS

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER M.A.K. DRAFTSMAN J.H.S. CHECKER R.H.C.
APPROVED DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 51, 58

42-216 42-225 383-01 458

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 51.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

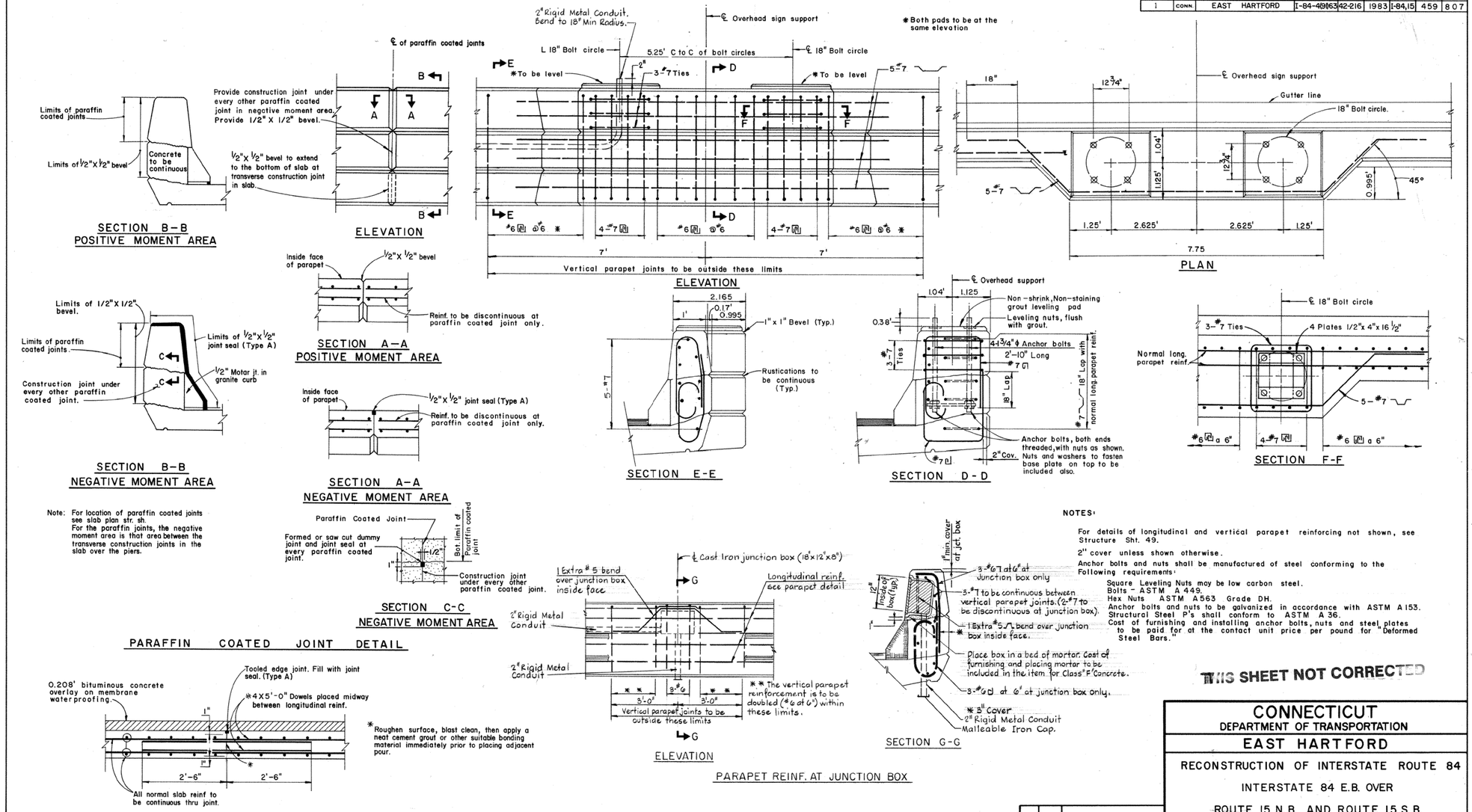
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-52
SHEET NO. 06.52

FORM NO. ENG. 158 ED. 1-75

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(96)3	42-216	1983	I-84,I5	459	807



NOTES:

For details of longitudinal and vertical parapet reinforcing not shown, see Structure Sht. 49.

2" cover unless shown otherwise.

Anchor bolts and nuts shall be manufactured of steel conforming to the Following requirements:

Square Leveling Nuts may be low carbon steel.
Bolts - ASTM A 449.
Hex Nuts ASTM A563 Grade DH.
Anchor bolts and nuts to be galvanized in accordance with ASTM A153.
Structural Steel P's shall conform to ASTM A 36.
Cost of furnishing and installing anchor bolts, nuts and steel plates to be paid for at the contact unit price per pound for "Deformed Steel Bars."

THIS SHEET NOT CORRECTED

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD

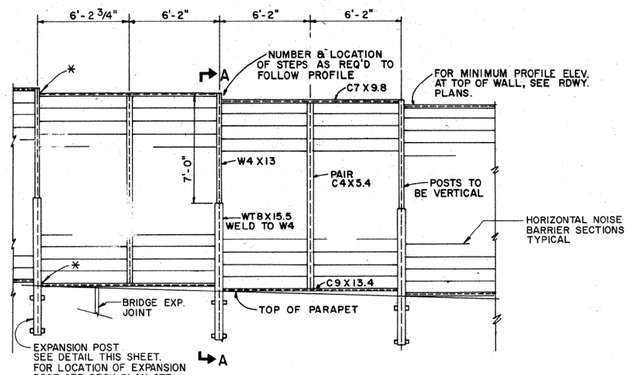
RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

JOINT AND CONCRETE DETAILS

NO.	DATE	DESCRIPTION

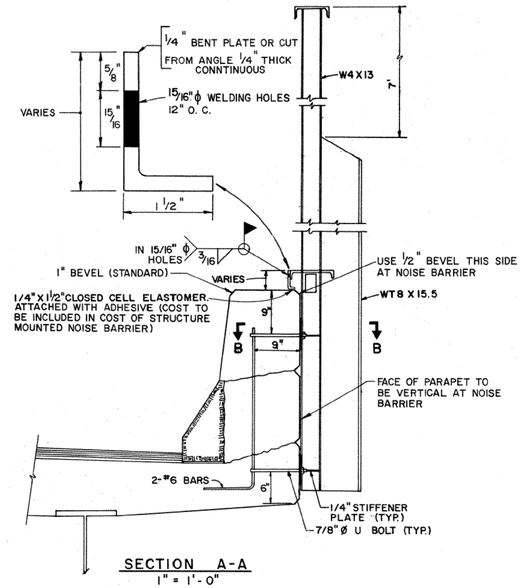
FORM NO. 212B	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)163	42-216	1983	I-84, 15	460	807

FORM NO. ENG. 158 ED. 1-78

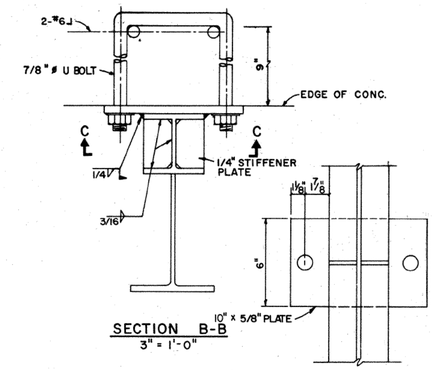


TYPICAL ELEVATION
1/4" = 1'-0"

* PROVIDE 2" LONG SLOTTED HOLES CONNECTING CHANNELS TO POST. SET CONNECTING BOLTS AT ℄ OF SLOTS AT 50°. TIGHTEN FINGER TIGHT ONLY AND PROVIDE LOCK NUTS. PROVIDE 3/4" CLEAR BETWEEN CHANNEL COPES AND POST FLANGES @ 50°.

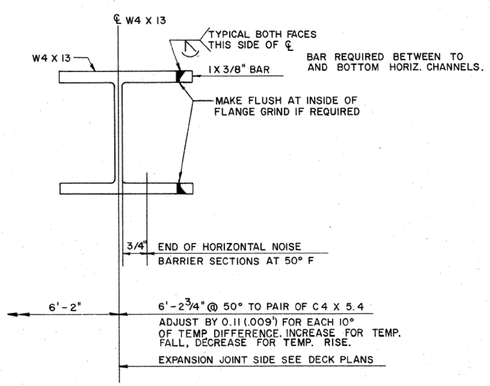


SECTION A-A
1" = 1'-0"



SECTION B-B
3" = 1'-0"

SECTION C-C
3" = 1'-0"



DETAIL AT EXPANSION JOINTS
N. T. S.

NOTE:
FOR ADDITIONAL DETAILS, SEE STANDARD NOISE BARRIER (ACOUSTIC) WALL DRAWINGS, INCLUDED WITH ROADWAY PLANS.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

NOISE BARRIER DETAILS

ENGINEER HAYDEN, HARDING AND BUCHANAN, INC.
DESIGNER R.H.C. | DRAFTSMAN V.A.S. | CHECKER R.H.C.
APPROVED J. F. Hayden | DATE 9-15-81
STRUCTURE NO. 42-216-2 | BRIDGE LOG NO. | STRUCTURE SHEET NO. 53 of 58

42-216 42-225 383-01 460

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 53.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Andrew J. Cardinali

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

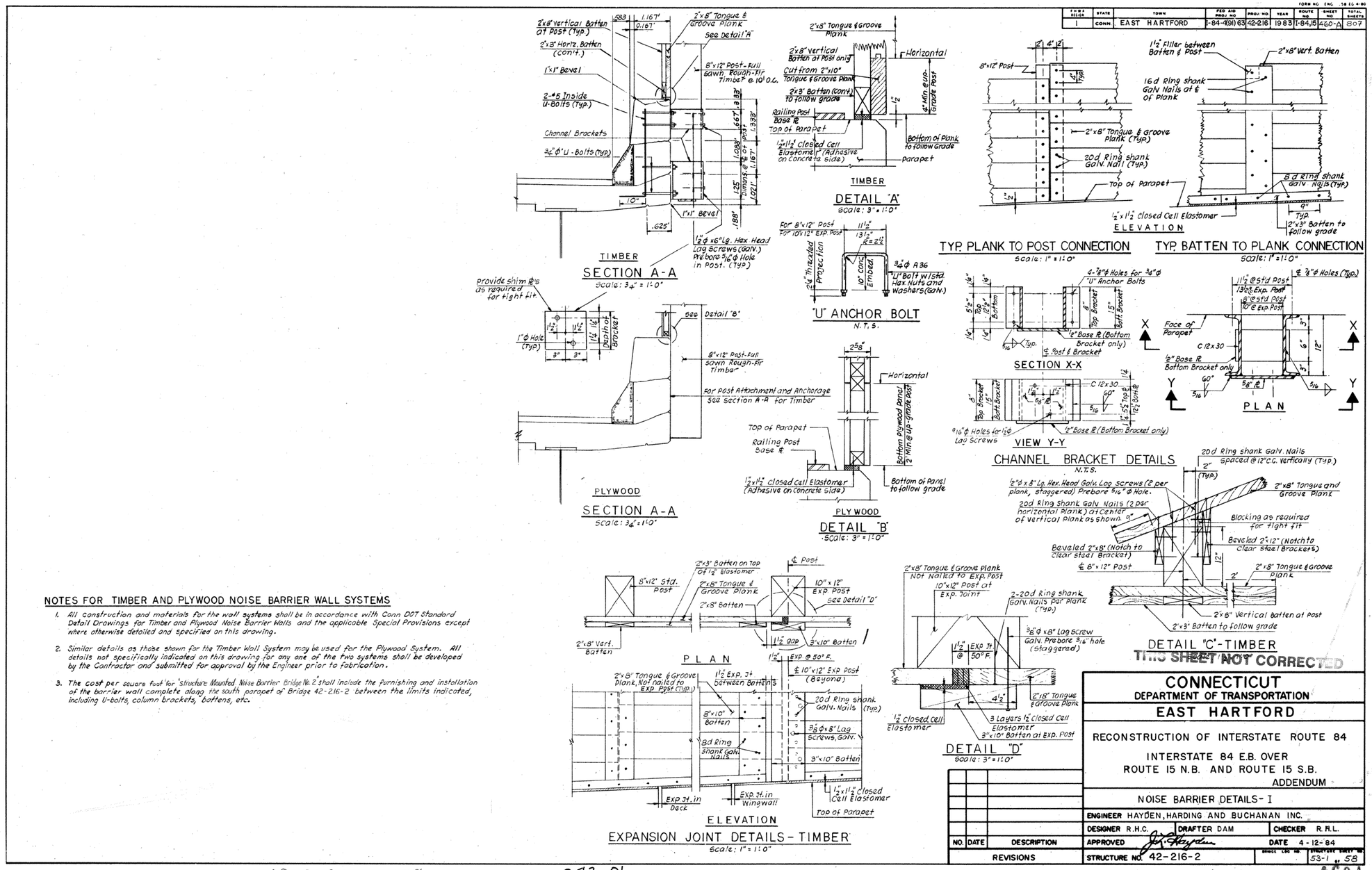
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-54
SHEET NO. 06.54

F.W.H.A. REG.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91) 63	42-216	1983	I-84, I5	460-A	807

FORM NO. ENG. 58 EL 4-80



NOTES FOR TIMBER AND PLYWOOD NOISE BARRIER WALL SYSTEMS

1. All construction and materials for the wall systems shall be in accordance with Conn DOT Standard Detail Drawings for Timber and Plywood Noise Barrier Walls and the applicable Special Provisions except where otherwise detailed and specified on this drawing.
2. Similar details as those shown for the Timber Wall System may be used for the Plywood System. All details not specifically indicated on this drawing for any one of the two systems shall be developed by the Contractor and submitted for approval by the Engineer prior to fabrication.
3. The cost per square foot for "Structure Mounted Noise Barrier Bridge No. 2" shall include the furnishing and installation of the barrier wall complete along the south parapet of Bridge 42-216-2 between the limits indicated, including U-bolts, column brackets, battens, etc.

NO.	DATE	DESCRIPTION
		REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.
ADDENDUM

NOISE BARRIER DETAILS - I

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER R.H.C. DRAFTER DAM CHECKER R.H.L.
APPROVED J. C. Hayden DATE 4-12-84
STRUCTURE NO. 42-216-2 SHEET NO. 53-1 OF 58

THIS SHEET NOT CORRECTED

42-216 42-225 383-01 460-A 460A

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 54.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

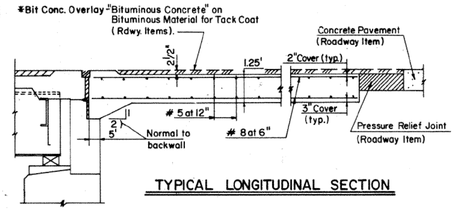
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

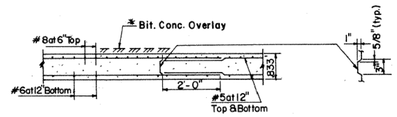
PROJECT NO. **0042-0325**
DRAWING NO. **E-55**
SHEET NO. **06.55**

FORM NO. ENG. 158 ED. -75

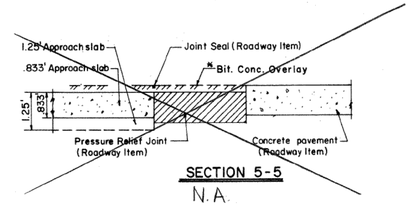
F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	461	807



TYPICAL LONGITUDINAL SECTION

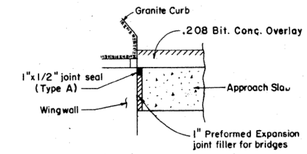


SECTION 8-8

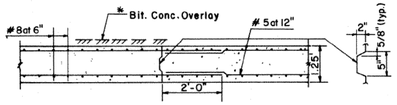


SECTION 5-5

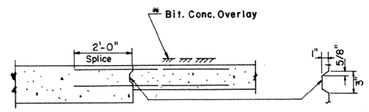
N.A.



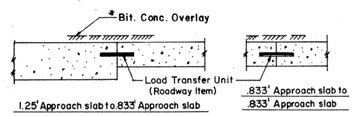
SECTION 9-9



SECTION 4-4



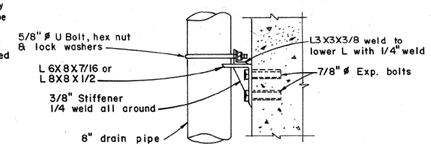
SECTION 7-7



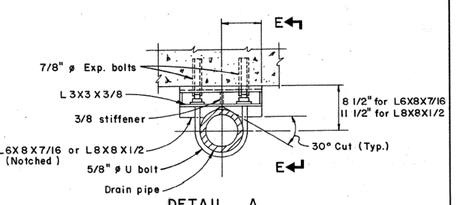
SECTION 6-6

NOTES:

1. For details of Load transfer unit, see "Road Standards."
2. Reinforcing steel for approach slabs to be included in the roadway item for "Deformed Steel Bars." Concrete for approach slabs to be included in the roadway item for "Class 'A' Concrete."
3. Top reinforcing steel in approach slabs to be epoxy coated and shall be included in the item for deformed bars, epoxy coated.

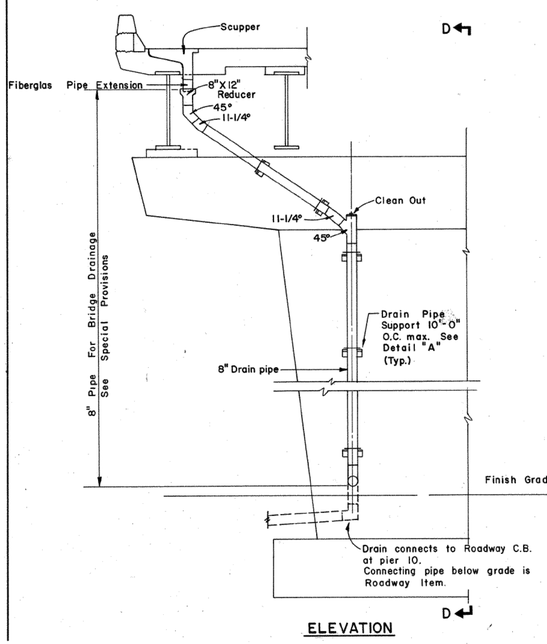


SECTION E-E

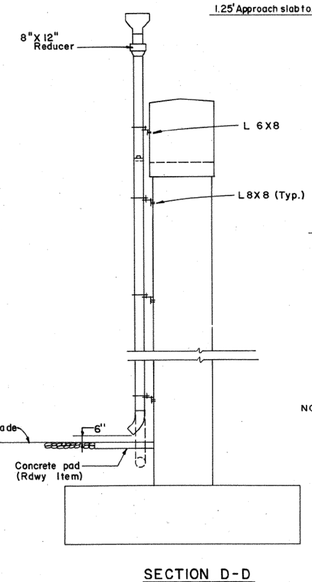


DETAIL A

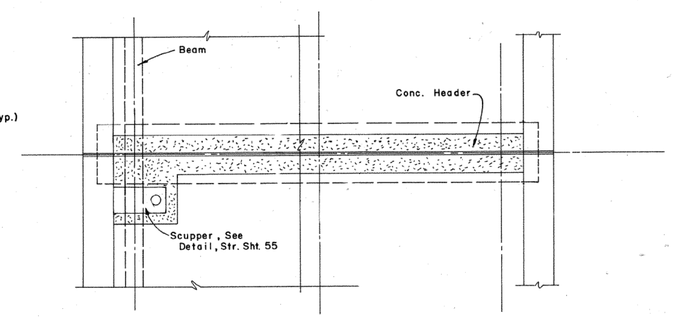
NOTE: All pipe clamps, U bolts, nuts, washers, angle brackets, expansion bolts and other miscellaneous pipe support items are to be hot dipped galvanized in conformance with ASTM A123.



ELEVATION



SECTION D-D



NOTE: All Scuppers to be piped Down pier similar to that Shown.

PLAN

PAINT

The color of the final field coat of paint on the pipe for bridge drainage and appurtenances such as hangers, straps and fasteners shall match the Department's Standard Bridge Color No. 206, Gray.

THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

CONCRETE DETAILS

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.
DESIGNER R.H.L. DRAFTER C.P.T. CHECKER R.H.C.
APPROVED J.J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 54 of 58

42-216 42-225 383-01 461

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 55.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

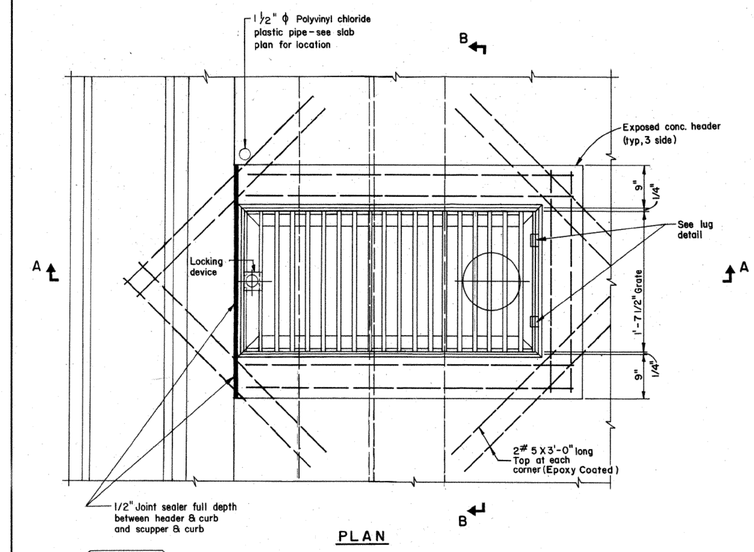
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-56
SHEET NO. 06.56

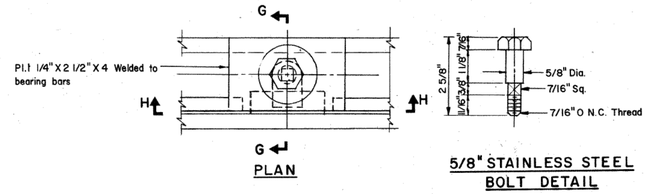
F.H.W.A. DIV. OFF.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	CONN.	EAST HARTFORD	I-84-49(163)	42-216	1983	I-84,15	462	807

FORM NO. ENG. 156 ED. 171



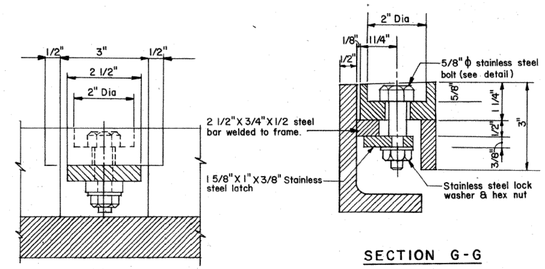
PLAN

Note
Grating & frame to be set to profile grade and roadway x - slope.



PLAN

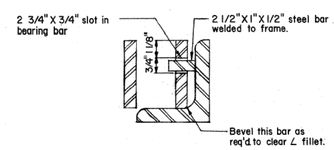
5/8" STAINLESS STEEL BOLT DETAIL



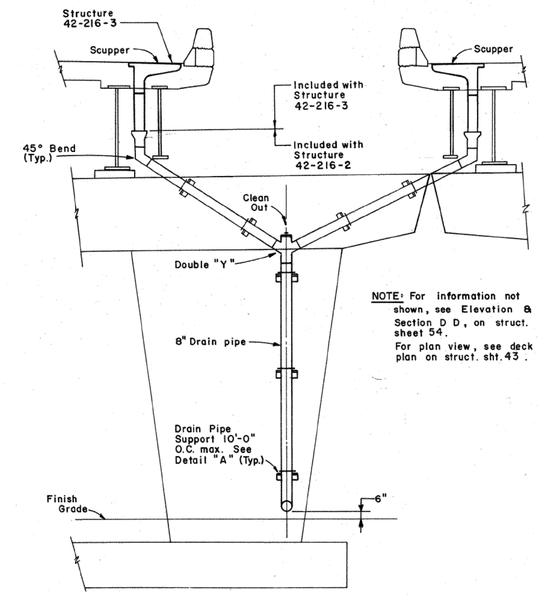
SECTION H-H

SECTION G-G

LOCKING DEVICE DETAILS

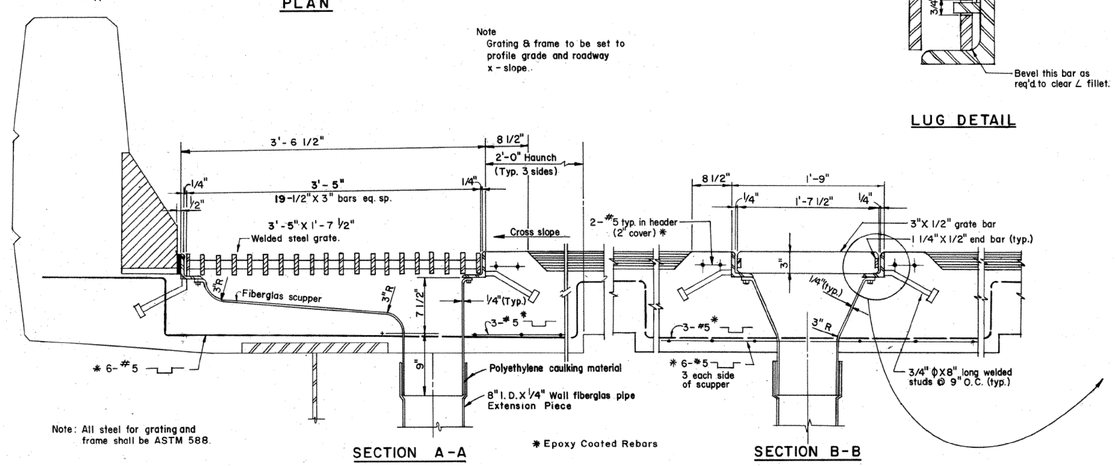


LUG DETAIL



NOTE: For information not shown, see Elevation & Section D D, on struct. sheet 54.
For plan view, see deck plan on struct. sht. 43.

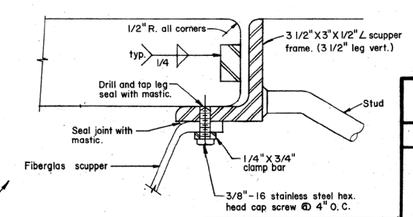
SECTION F-F



SECTION A-A

SECTION B-B

SCUPPER DETAILS
1 1/2" = 1'-0"



THIS SHEET NOT CORRECTED

NO.	DATE	DESCRIPTION

REVISIONS

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
EAST HARTFORD
RECONSTRUCTION OF INTERSTATE ROUTE 84
ROUTE 15 N.B. AND S.B.
UNDER
W.B. PRIORITY RAMP
SCUPPER DETAIL

ENGINEER HAYDEN, HARDING & BUCHANAN INC.
DESIGNER M.A.K. DRAFTSMAN J.H.S. CHECKER R.H.C.
APPROVED J. Hayden DATE 9-15-81
STRUCTURE NO. 42-216-2 BRIDGE LOG NO. STRUCTURE SHEET NO. 55 of 58

42-216 42-225 383-01 462

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 56.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

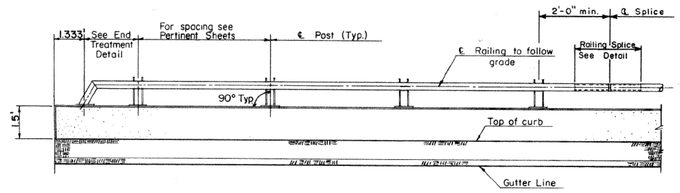
TOWN: EAST HARTFORD
DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-57
SHEET NO. 06.57

F.H.W.A. DIV. OFF.	STATE	TOWN	FED. A.I.D. PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD		42-216	1983	I-84,15	463	807

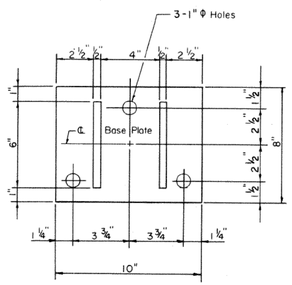
FORM NO. ENG. 15 ED. 8-80

I-84-4(91)63

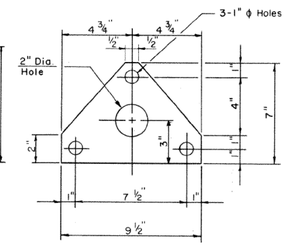


ELEVATION
Scale: 3/8" = 1'-0"

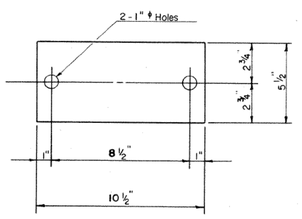
PLAN
Scale: 3/8" = 1'-0"



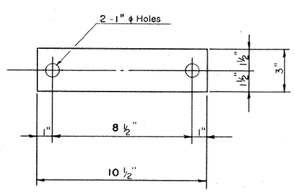
POST BASE PLATE
Scale: 3" = 1'-0"



POST ANCHORAGE PLATE
Scale: 3" = 1'-0"



END PLATE



END ANCHORAGE PLATE

NOTES

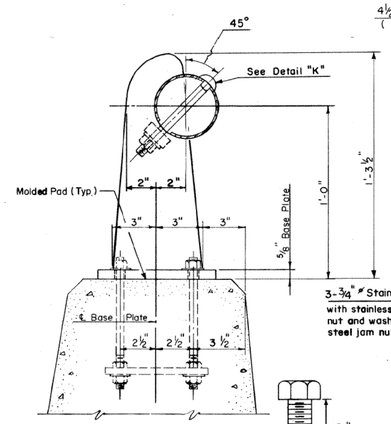
Lengths of rail elements shall be continuous over a minimum of four rail posts wherever possible and in no case less than two. Welding of two or more rails to form an element will not be allowed.

For structures having railings with a radius of 400 ft. or more the railing may be sprung into place.

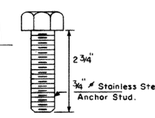
For structures having railings with a radius of less than 400 ft. the railing must be curved.

All railing anchorage systems shall be fabricated and installed perpendicular to the grade of the railing.

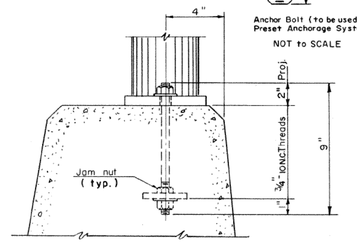
Splice shall be a sliding fit in rail section.



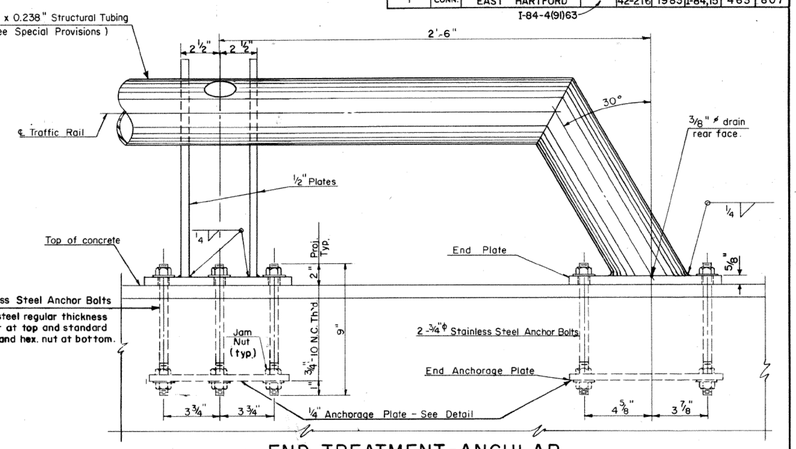
SIDE ELEVATION
Scale: 3" = 1'-0"



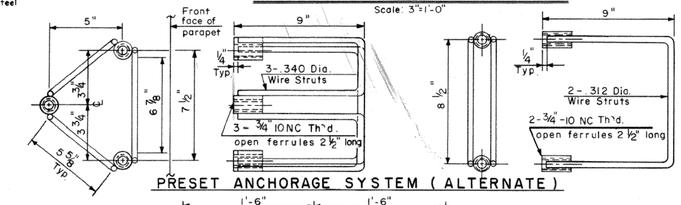
Anchor Bolt (to be used with Preset Anchorage System).
NOT to SCALE



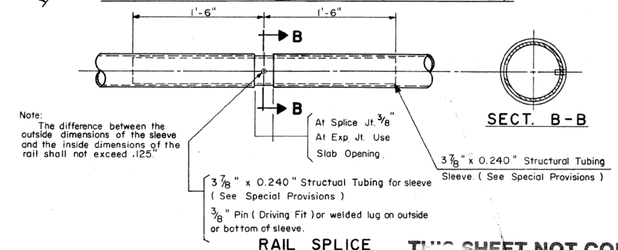
END PLATE ANCHORAGE
Scale: 3" = 1'-0"



END TREATMENT-ANGULAR
Scale: 3" = 1'-0"



PRESET ANCHORAGE SYSTEM (ALTERNATE)

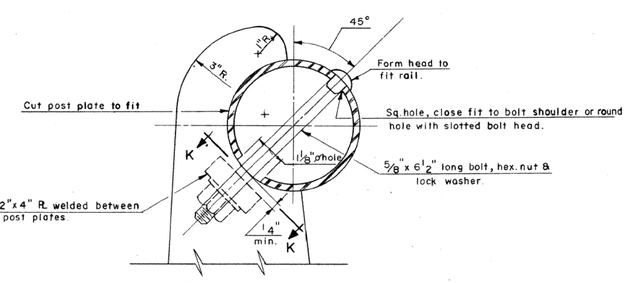


Note:
The difference between the outside dimensions of the sleeve and the inside dimensions of the rail shall not exceed .125"

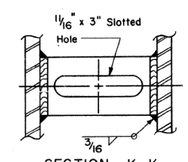
SECT. B-B

RAIL SPLICE

THIS SHEET NOT CORRECTED



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



SECTION K-K
Scale 1/2" = 1'-0"

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

Maximum Post Spacing = 6'-6"

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

METAL BRIDGE RAIL (TRAFFIC) (STRUCTURAL STEEL)

ENGINEER HAYDEN, HARDING AND BUCHANAN INC.

APPROVED J. Hayden DATE 9-15-81

DRAFTER CHECKER DESIGNER

STRUCTURE NO. 42-216-2 STRUCTURE SHEET 56 OF 58

NO.	DATE	DESCRIPTION
		REVISIONS

End angled down Memo #42

42-216 42-225 383-01 463

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 57.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15

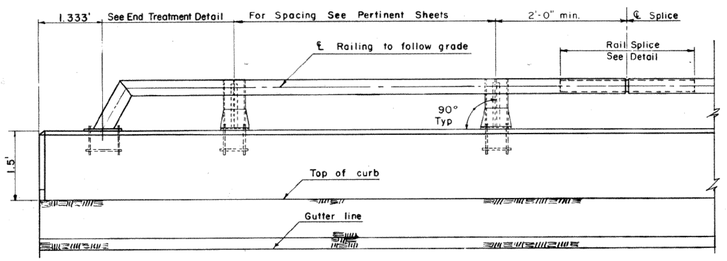
TOWN: EAST HARTFORD

DRAWING TITLE: EXISTING DRAWINGS

PROJECT NO. 0042-0325
DRAWING NO. E-58
SHEET NO. 06.58

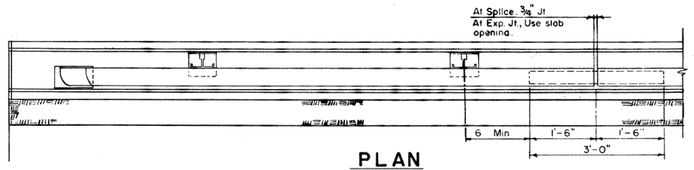
FHWA DIV. OFF.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	464	807

FORM NO. ENG. 13 ED. 8-65



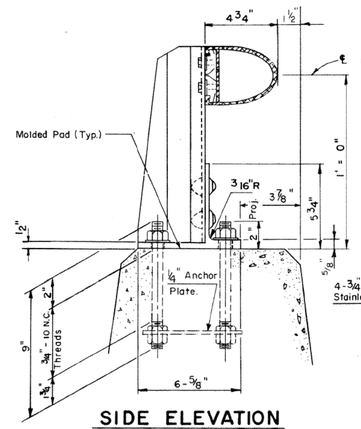
ELEVATION

SCALE 3/4" = 1'-0"



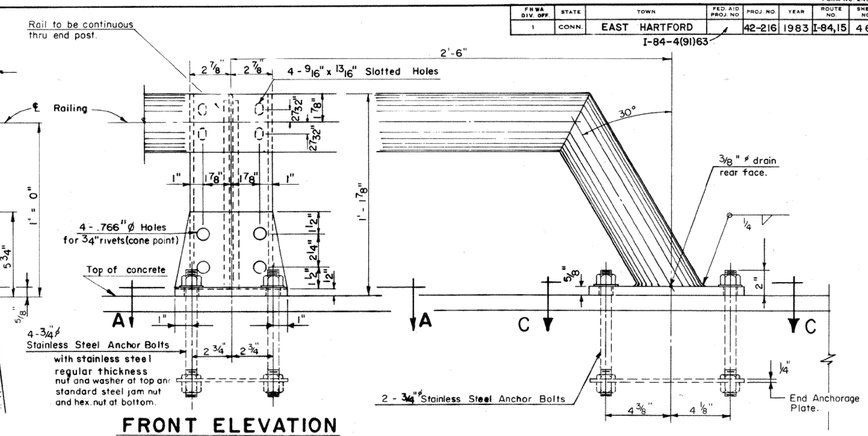
PLAN

SCALE 3/4" = 1'-0"



SIDE ELEVATION

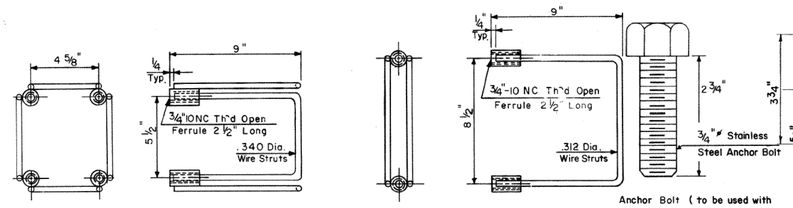
SCALE 3" = 1'-0"



FRONT ELEVATION

SCALE 3" = 1'-0"

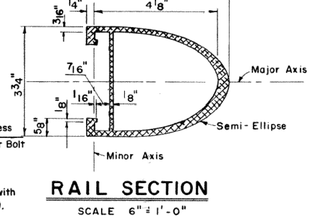
END TREATMENT - ANGULAR



PRESET ANCHORAGE SYSTEM (ALTERNATE)

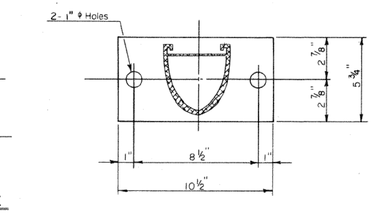
Scale 3" = 1'

Anchor Bolt (to be used with Preset Anchorage System). NOT to SCALE



RAIL SECTION

SCALE 6" = 1'-0"

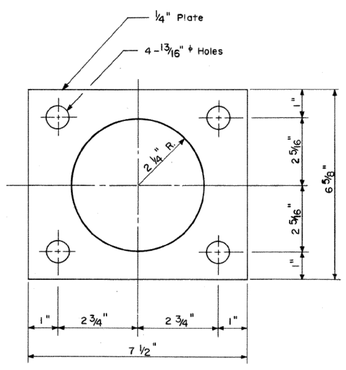


END ANCHORAGE PLATE

Scale 3" = 1'-0"

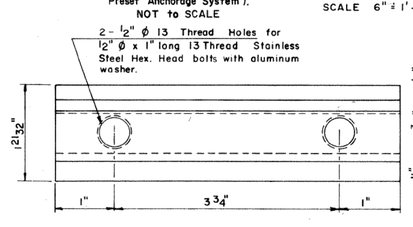
SECTION C-C

Scale 3" = 1'-0"



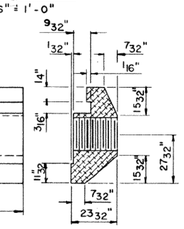
ANCHOR PLATE

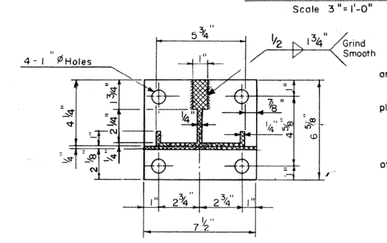
SCALE 6" = 1'-0"



POST CONNECTION

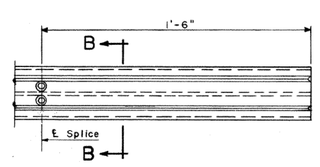
SCALE 12" = 1'-0"





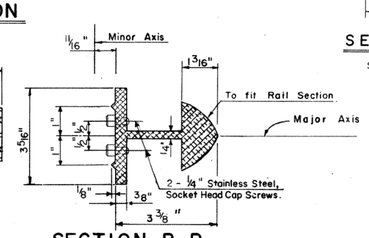
SECTION A-A

Scale: 3" = 1'-0"



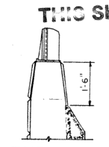
RAIL SPLICE

SCALE 3" = 1'-0"



SECTION B-B

SCALE 6" = 1'-0"



END VIEW

SCALE 1/2" = 1'-0"

THIS SHEET NOT CORRECTED

End angled down

NOTES

Lengths of rail elements shall be continuous over a minimum of four rail posts wherever possible and in no case less than two. Welding of two or more rails to form an element will not be allowed.

For structures having railings with a radius of 400 ft. or more the railing may be sprung into place.

For structures having railings with a radius of less than 400 ft. the railing must be curved.

All railing anchorage systems shall be fabricated and installed perpendicular to the grade of the railing.

Splice shall be a sliding fit in rail section.
All extruded rails and posts shall be free of burrs, irregularities sharp edges.

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

EAST HARTFORD

Maximum Post Spacing = 6'-6"

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

METAL BRIDGE RAIL (TRAFFIC) (EXTRUDED POST ALUMINUM)

ENGINEER HAYDEN, HARDING AND BUCHANAN
APPROVED J. Hayden DATE 9-15-81
DRAFTER CHECKER DESIGNER
STRUCTURE NO. 42-216-2 STRUCTURE SHEET 57 OF 58

NO.	DATE	DESCRIPTION

REVISIONS

Memo # 21

42-216 42-225 383-01 464

FOR INFORMATION ONLY

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: 12/29/2020

DESIGNER/DRAFTER: ECO
CHECKED BY: ZMK
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\0042-0325 Existing Drawings Page 58.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY: Andrew J. Cardinali

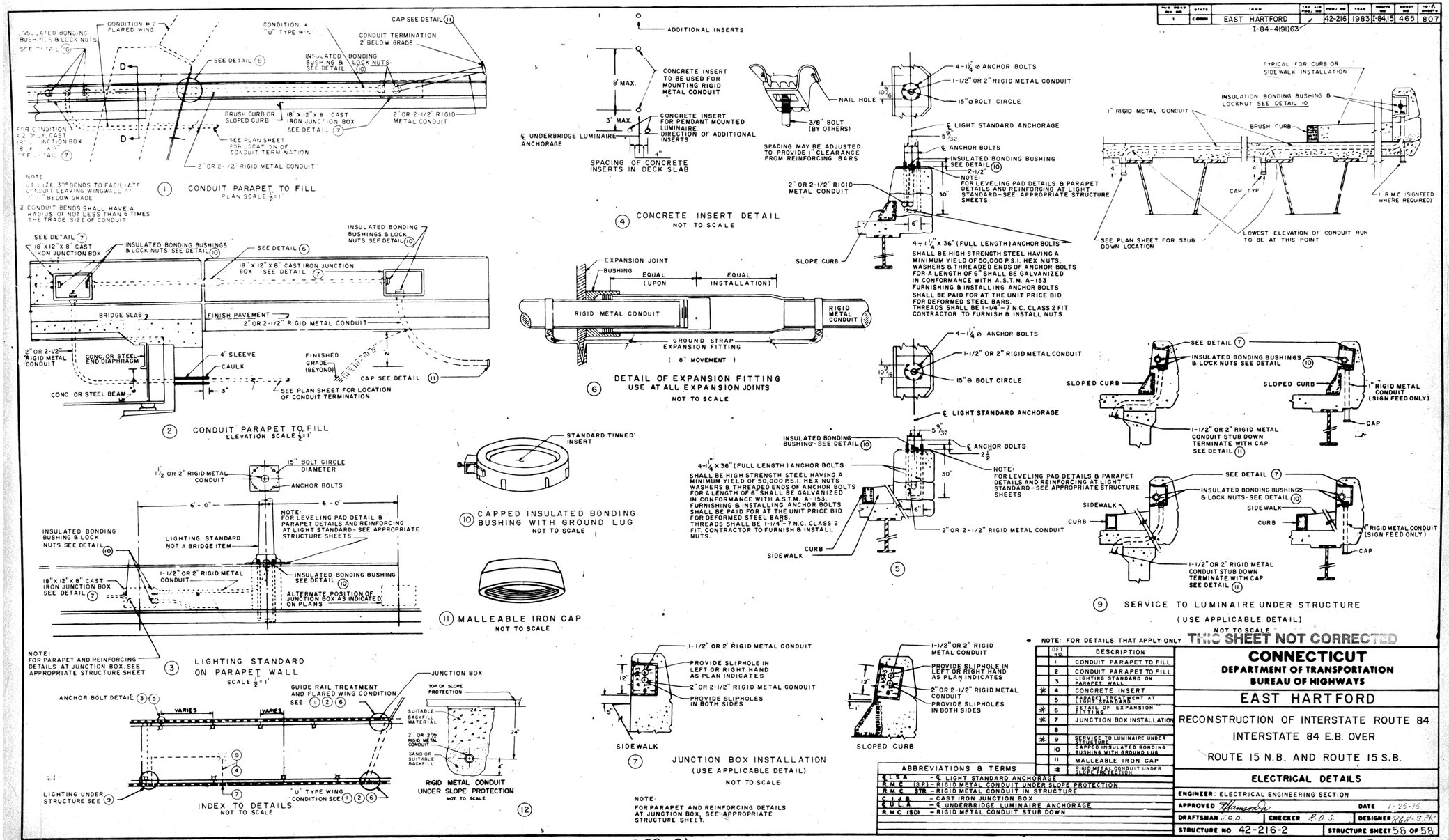
PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**

DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. 0042-0325
DRAWING NO. E-59
SHEET NO. 06.59

PLAN GROUP SHT. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	CONTR. NO.	SHEET NO.	TOTAL SHEETS
1	CONN	EAST HARTFORD	I-84-4(91)63	42-216	1983	I-84,15	465	807



* 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	
*	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

THIS SHEET NOT CORRECTED

ABBREVIATIONS & TERMS	
℄ L S A	- ℄ LIGHT STANDARD ANCHORAGE
R M C (SP)	- 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

EAST HARTFORD

RECONSTRUCTION OF INTERSTATE ROUTE 84
INTERSTATE 84 E.B. OVER
ROUTE 15 N.B. AND ROUTE 15 S.B.

ELECTRICAL DETAILS

ENGINEER: ELECTRICAL ENGINEERING SECTION
APPROVED Thompson DATE 1-29-75
DRAFTSMAN J.C.D. CHECKER R.D.S. DESIGNER REN-S.PK
STRUCTURE NO. 42-216-2 STRUCTURE SHEET 58 OF 58

42-216 42-225 383-01 465

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Filename: ...\0042-0325 Existing Drawings Page 59.dgn

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APPROVED BY: Andrew J. Cardinali

PROJECT TITLE: **REHABILITATION OF BRIDGE NO. 05844A CARRYING I-84 OVER ROUTE 15**

TOWN: **EAST HARTFORD**
DRAWING TITLE: **EXISTING DRAWINGS**

PROJECT NO. **0042-0325**
DRAWING NO. **E-60**
SHEET NO. **06.60**