01.11 - REFERENCE
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
REFI-01	STRUCTURAL INDEX OF DRAWINGS - 1		
REF-01	REFERENCE DRAWING - 1		
REF-02	REFERENCE DRAWING - 2		
REF-03	REFERENCE DRAWING - 3		
REF-04	REFERENCE DRAWING - 4		
REF-05	REFERENCE DRAWING - 5		
REF-06	REFERENCE DRAWING - 6		
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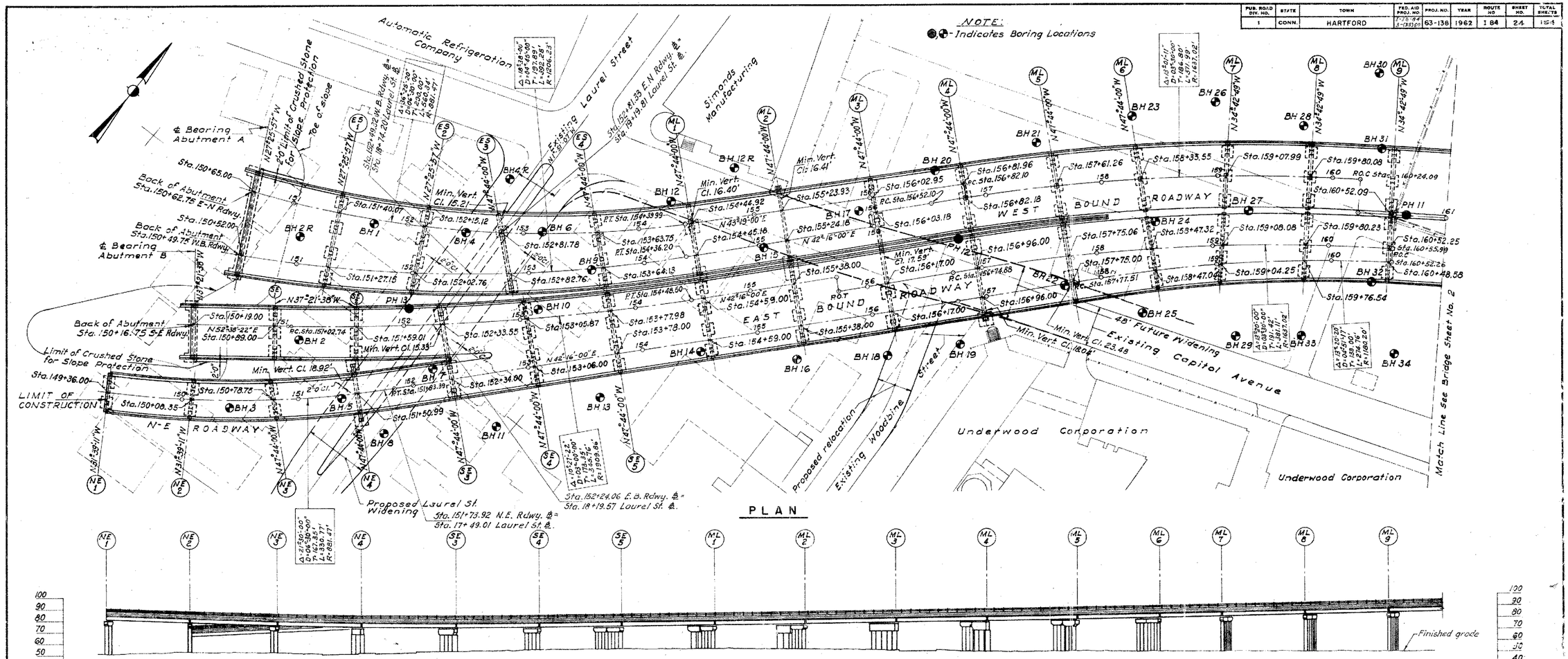
REF-12	REFERENCE DRAWING - 12		
REF-13	REFERENCE DRAWING - 13		
REF-14	REFERENCE DRAWING - 14		
REF-15	REFERENCE DRAWING - 15		
REF-16	REFERENCE DRAWING - 16		
REF-17	REFERENCE DRAWING - 17		

FORM NO. ENG. 18 L.D. 11.72

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	F-I-I-84-3 (33) 50	63-138	1962	I 84	24	154

NOTE:
●,⊕ - Indicates Boring Locations



NOTE:
For Profiles data see Highway Sheets No. 15, 16, 19 & 20

No Revisions Submitted for this Sheet

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Structure Excavation-Earth (Complete)	C.Y.	14,096
Removal of Existing Masonry	C.Y.	50
Removal of Pile Driving Obstructions	C.Y.	680
6" A.C.C.M. Pipe	L.F.	200
3" Cast Iron Pipe	L.F.	114
6" Cast Iron Pipe	L.F.	4,410
8" Cast Iron Pipe	L.F.	983
Scuppers and Grating Covers	Ea.	98
Test Pile (Steel 12 BP 53 - 30' Long)	Ea.	3
Test Pile (Steel 10 BP 42 - 40' Long)	Ea.	2
Test Pile (Steel 12 BP 53 - 75' Long)	Ea.	2
Test Pile (Steel 10 BP 42 - 30' Long)	Ea.	3
Test Pile (Steel 10 BP 42 - 75' Long)	Ea.	6
Structure Excavation-Rock (Complete)	C.Y.	742
Pile Loading Test	Ea.	5
24" Cored Holes For Piles	L.F.	784
Furnishing Steel Piles	Lb.	3,851,041
Driving Steel Piles	L.F.	86,685
Splicing Steel Piles	Ea.	109

ITEM	UNIT	QUANTITY
Steel Sheet Piles	Lb.	487,997
Neoprene Plate for Bridge Expansion Joint	L.F.	5,818
Class "A" Concrete	C.Y.	12,039
1/2" Preformed Expansion Joint Filler for Bridges	S.F.	3,257
1" Preformed Expansion Joint Filler for Bridges	S.F.	229
Shear Connectors	L.F.	61,035
Deformed Steel Bars	Lb.	5,619,317
Structural Steel	Lb.	18,001,822
Metal Bridge Rail	L.F.	10,841
Dampproofing	S.Y.	200
Crushed Stone For Slope Protection	Ton	521
6"x9 1/2" Granite Stone Curbing for Bridges	L.F.	11,362
6"x9 1/2" Curved Granite Stone Curbing for Bridges	L.F.	28
Metal Beam Type Rail (Bridge)	L.F.	1,924
Cast Iron Junction Box (Type 16)	Ea.	47
2" Rigid Steel Conduit in structure	L.F.	7,750
Point Reinforcement for Steel Piles	Ea.	109
Gravel Fill	C.Y.	76
Class "C" Concrete	C.Y.	12,911

GENERAL NOTES

ELEVATION DATUM: All Elevations are referred to the U.S. Coast and Geodetic Survey Datum.

SPECIFICATIONS: Connecticut State Highway Department Form 808 (January 1955) and Special Provisions.

DESIGN SPECIFICATIONS: Standard Specification for Highway Bridges (A.A.S.H.O.-1957) except as modified by the Bureau of Public Roads "Policy on Interstate System Projects" (August 1956) and as supplemented by the Connecticut State Highway Department Bridge Manual July 1960.

LIVE LOAD: H20-S16-44 Alt. 24000# dual axle at 4'-0" o.c.

FUTURE PAVING ALLOWANCE: 25 Lbs. per Sq. Ft.

COMPOSITE CONSTRUCTION: No temporary intermediate supports shall be used during construction. Superimposed loads shall be placed when directed by the Engineer, but not less than 10 days after the slab has been poured.

CLASS "A" CONCRETE: Class "A" Concrete shall be used for the entire substructure. See Special Provisions.

EXPOSED EDGES: Exposed edges shall be beveled 1"x1" unless dimensioned otherwise.

DEFORMED STEEL BARS: For grades of deformed steel bars, see Special Provisions.

STRUCTURAL STEEL: All material for plated rolled beams and welded plate girders shall conform to A.S.T.M. A-373. All other steel shall conform to A.S.T.M. A-7 unless noted otherwise.

PAINTING: For shop and field painting of Structural Steel and Metal Bridge Rail, see Special Provisions.

JOINT SEAL: Joint Seal shall be included in the item for Class "C" Concrete. See Special Provisions.

FELT: The cost of furnishing and placing 2 layers of 15# roofing felt on top of backwalls shall be included in the item for Class "A" Concrete.

PARAFFIN: The cost of furnishing and applying paraffin to the parapet joints shall be included in the item for Class "C" Concrete.

WELDING & WELD INSPECTION: See Special Provisions for Structural Steel.

CLASS "C" CONCRETE: Class "C" Concrete shall be used for bridge decks including concrete curbs, sidewalks, and parapets. See Special Provisions.

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 OF DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONCRETE DISTRIBUTION

DESCRIPTION	C.Y.
Superstructure	12,911
Substructure	6,055
Footings	5,984
Total	24,950

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
Radiographic	In.	none
Magnetic Particle	L.F.	none

REVISIONS		
NO.	DATE	DESCRIPTION

FEDERAL AID PROJECT NO. I-IG-84-3-(33)50

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

GENERAL PLAN

DESIGNED BY CHARLES F. MAGUIRE AND ASSOC. & HARDESTY & HANOVER
SCALES 1"=40'
MADE BY B.S. DATE 5-61
CHECKED BY J.S.M. DATE 8-61
APPROVED B.K. DATE 8-61
PROJECT NO. 63-1 6
BRIDGE INSP. NO. 1 of 53

FOR INFORMATION ONLY

PRINTED BY ANDREW T. JOHNSON CO., BOSTON, MASS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_001.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

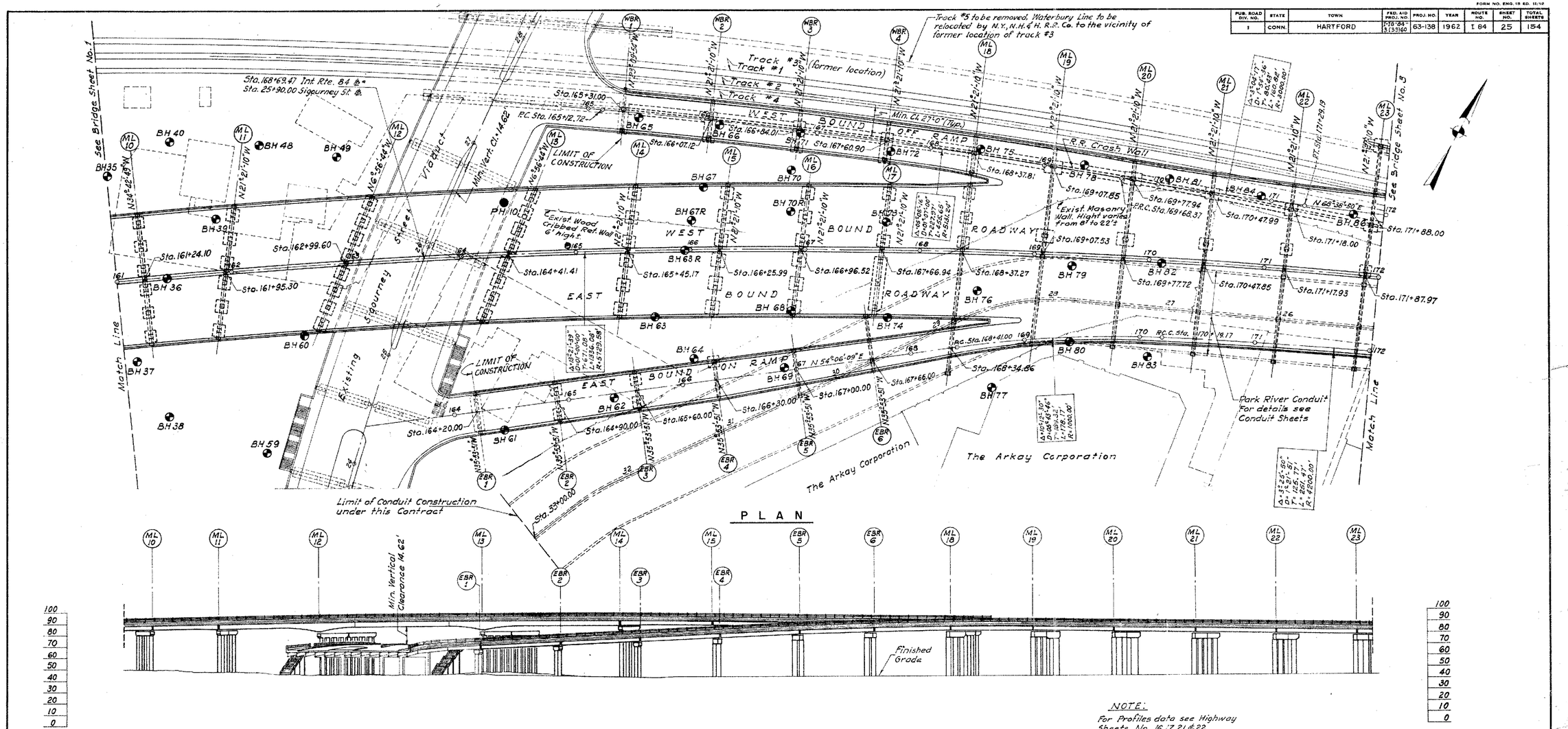
TOWN: HARTFORD

DRAWING TITLE: REFERENCE DRAWING - 1
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-01
SHEET NO. 01.11.02

FORM NO. ENG. 15 ED. 11/10

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-76-84-3(39)60	63-138	1962	I 84	25	154



PLAN

ELEVATION

NOTE:
For Profiles data see Highway Sheets No. 16, 17, 21 & 22

No Revisions Submitted for this Sheet

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

GENERAL PLAN

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W. LOCHNER

SCALES 1" = 40'
MADE BY B.S. DATE 4-61
CHECKED BY L.J.M. DATE 7-61
APPROVED E. Reeves DATE 8-61

PROJECT NO. 63-138
BRIDGE SHEET NO. 2 OF 88

FOR INFORMATION ONLY

PRINTED BY ANDREW T. JOHNSON CO., BOSTON, MASS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_002.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

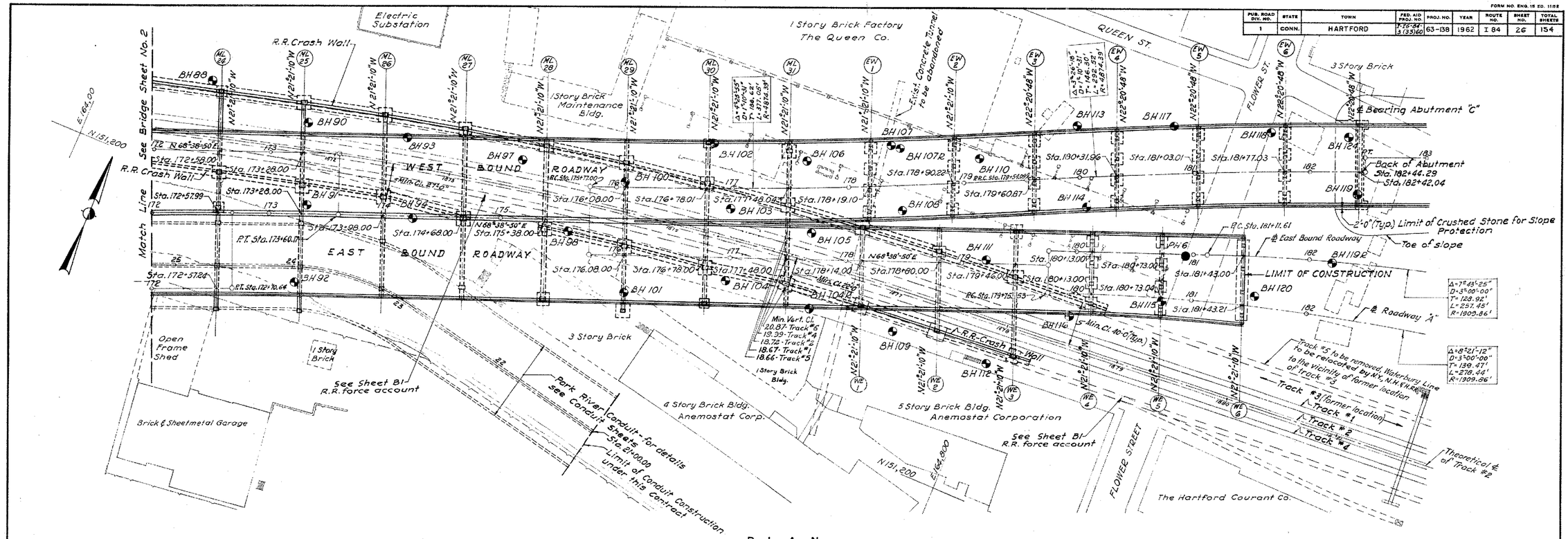
PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 2
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-02
SHEET NO. 01.11.03

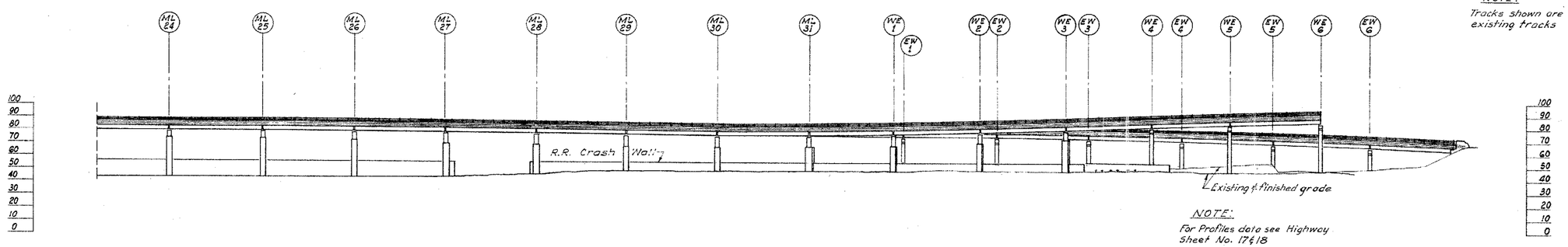
FORM NO. ENG. 15 ED. 11/52

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-16-84-3 (33)60	63-138	1962	I 84	26	154



PLAN

NOTE:
Tracks shown are existing tracks



NOTE:
For Profiles data see Highway Sheet No. 17 & 18

ELEVATION

No Revisions Submitted for this Sheet

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

GENERAL PLAN

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W. LOCHNER
SCALES 1" = 40'
MADE BY B.S. DATE 4.61
CHECKED BY L.J.M. DATE 7.61
APPROVED E. Reeves DATE 8.61
PROJECT NO. 63-138
BRIDGE SHEET NO. 3 OF 88

FOR INFORMATION ONLY

PRINTED BY ANDREW T. JOHNSON CO., BOSTON, MASS.

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

Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_003.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

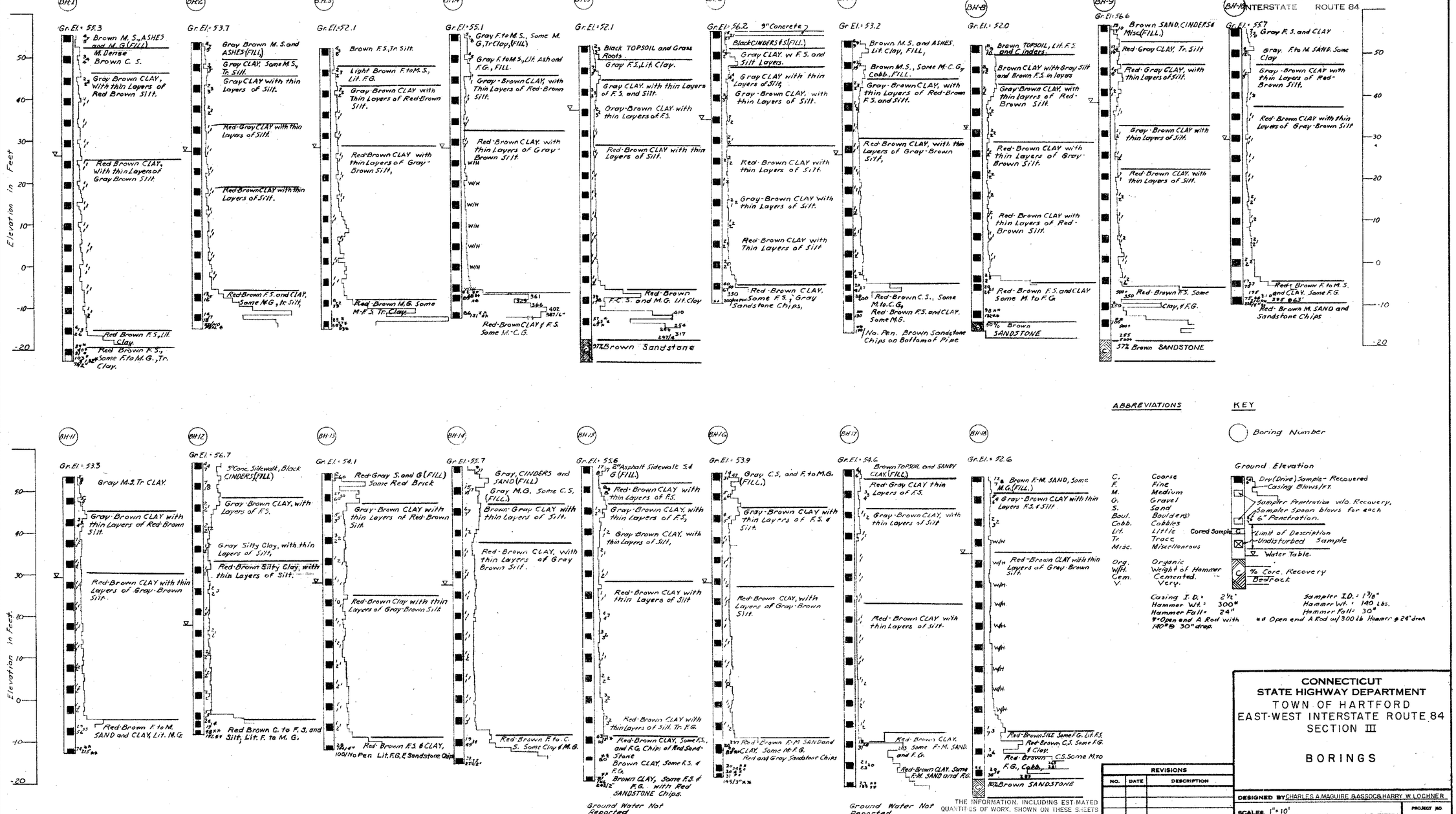
PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 3
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-03
SHEET NO. 01.11.04

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	5-19-84-3(35)60	63-138	1962	84	27	154

HARTFORD
INTERSTATE ROUTE 84



ABBREVIATIONS

C.	Coarse
F.	Fine
M.	Medium
G.	Gravel
S.	Sand
Boul.	Boulder(s)
Cobb.	Cobbles
Lit.	Little
Tr.	Trace
Misc.	Miscellaneous
Org.	Organic
Wtd.	Weight of Hammer
Cem.	Cemented.
V.	Very.

KEY

Boring Number

Ground Elevation

Dry (Drive) Sample - Recovered Casing Blows/ft.

Sampler Penetration w/o Recovery. Sampler Spoon blows for each 6" Penetration.

Limit of Description

Cored Sample

Undisturbed Sample

Water Table.

% Core Recovery

Bedrock

Casing I. D.: 2½"
Hammer Wt.: 300#
Hammer Fall: 24"
*Open end A Rod with 140# @ 30" drop.

Sampler I.D.: 1⅜"
Hammer Wt.: 140 Lbs.
Hammer Fall: 30"
** Open end A Rod w/ 300 Lb Hammer @ 24" drop

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REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

DESIGNED BY CHARLES A MAGUIRE & ASSOC & HARRY W. LOCHNER
SCALES 1" = 10'
MADE BY J. F. L. DATE 12-57
CHECKED BY S. S. DATE 12-57
APPROVED E. Reeves DATE 1-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 4 OF 88

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_004.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

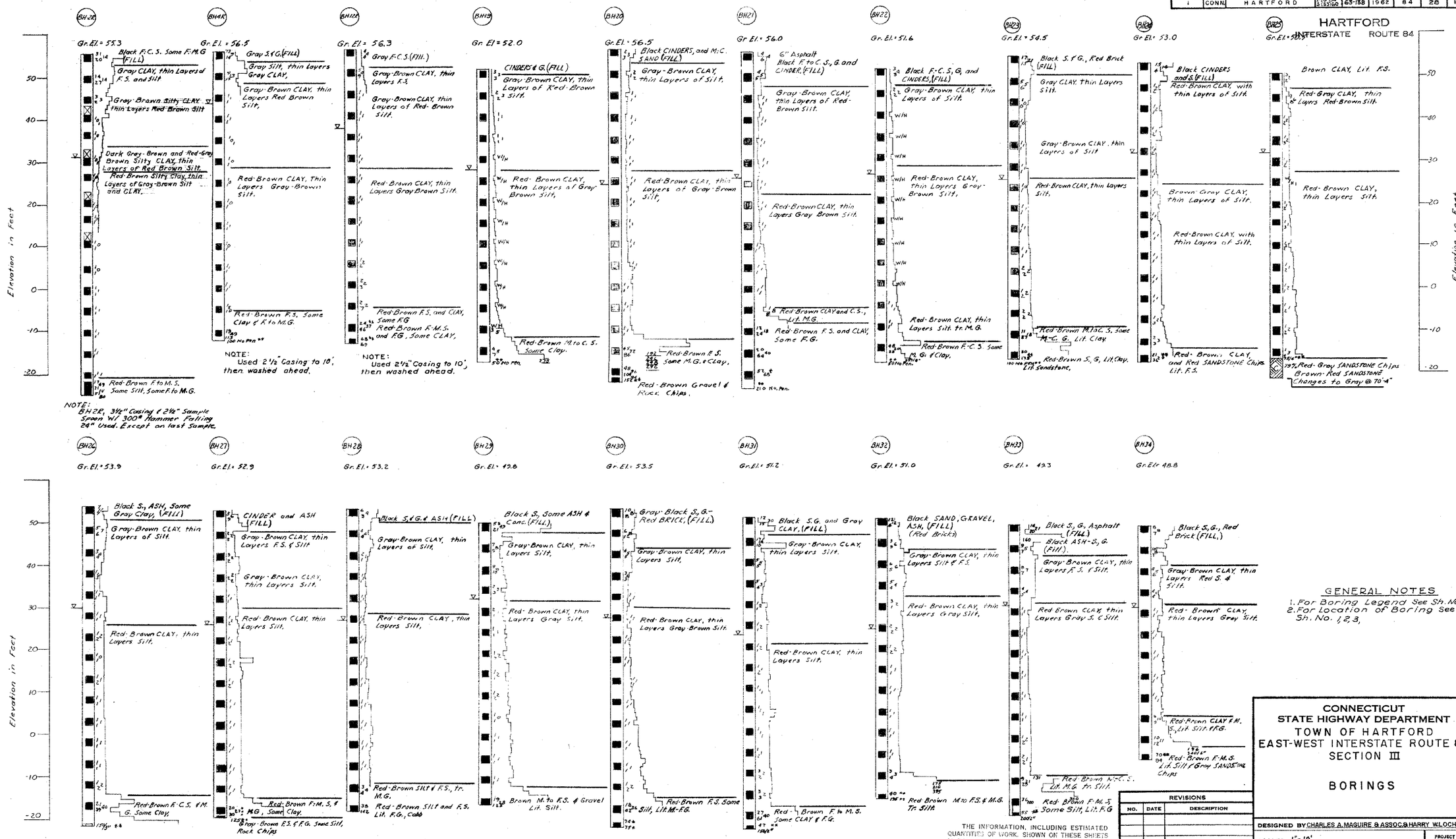
PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 4
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-04
SHEET NO. 01.11.05

FUN. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	S-T-0184 & S-S-0160	63-138	1962	84	28	154

HARTFORD
INTERSTATE ROUTE 84



GENERAL NOTES

1. For Boring Legend See Sh. No.
2. For Location of Boring See Sh. No. 1, 2, 3,

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

REVISIONS		
NO.	DATE	DESCRIPTION

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.

DESIGNED BY CHARLES A. MAGUIRE & ASSOC. & HARRY W. LOCHNER
SCALES 1" = 10'
MADE BY J.F.L. DATE 12-59
CHECKED BY J.S. DATE 12-59
APPROVED E. Keese DATE 8-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 5 OF 98

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_005.dgn

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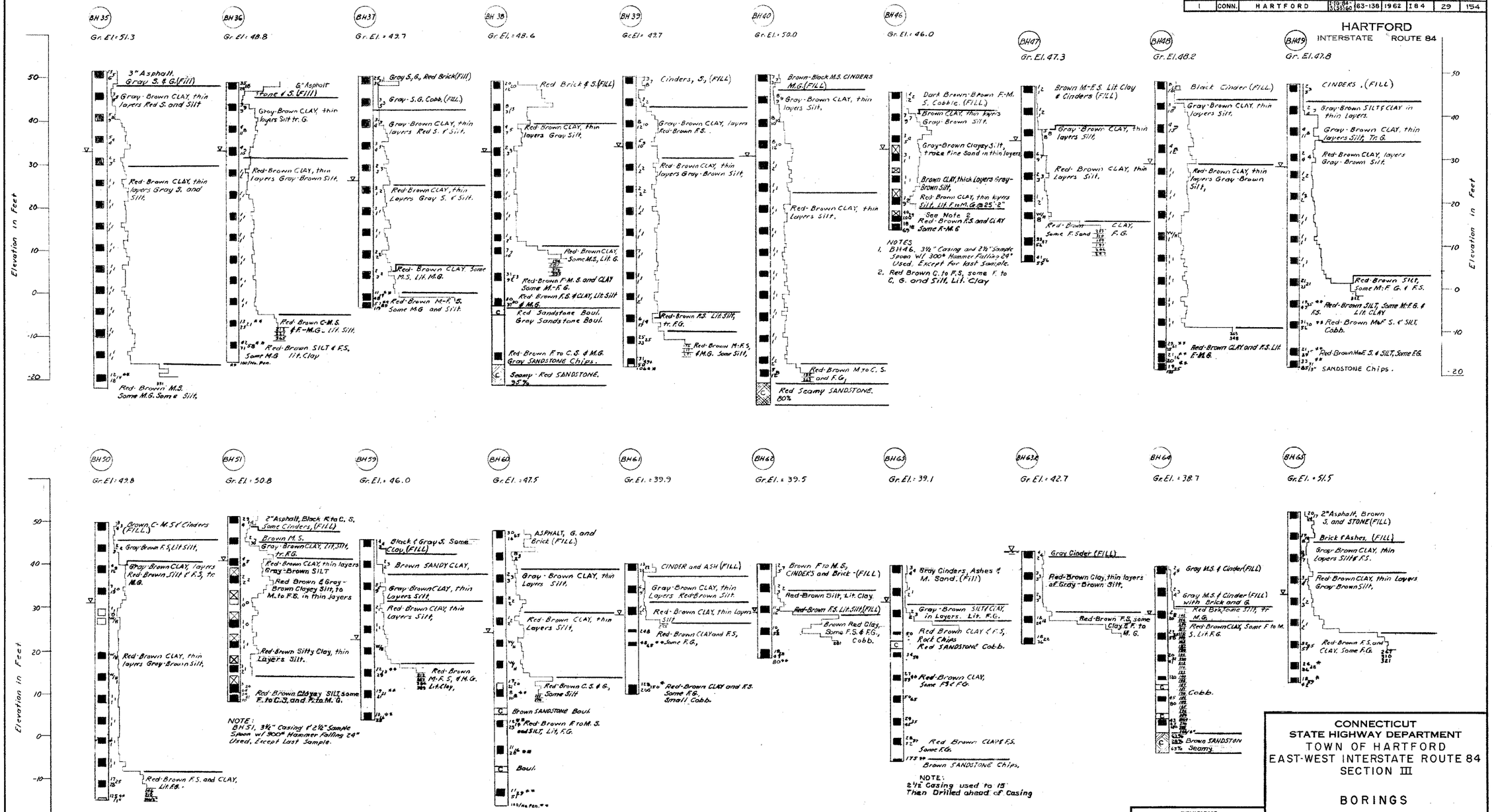
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
PROJECT NO. 63-699
DRAWING TITLE: REFERENCE DRAWING - 5
DRAWING NO. REF-05
FOR INFORMATION ONLY
SHEET NO. 01.11.06

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-IG-84-1(33)60	63-138	1962	I 84	29	154

HARTFORD
INTERSTATE ROUTE 84



GENERAL NOTES
1. For Boring Legend see Sheet No. 4
2. For Location of Borings see Sheet No. 1, 2 & 3

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REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

DESIGNED BY CHARLES A. MAGUIRE & ASSOC. & HARRY W. LOCHNER
SCALES 1" = 10'
MADE BY J.F.L. DATE 12-59
CHECKED BY J.S. DATE 12-59
APPROVED E. Keegan DATE 8-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 6 OF 88

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_006.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

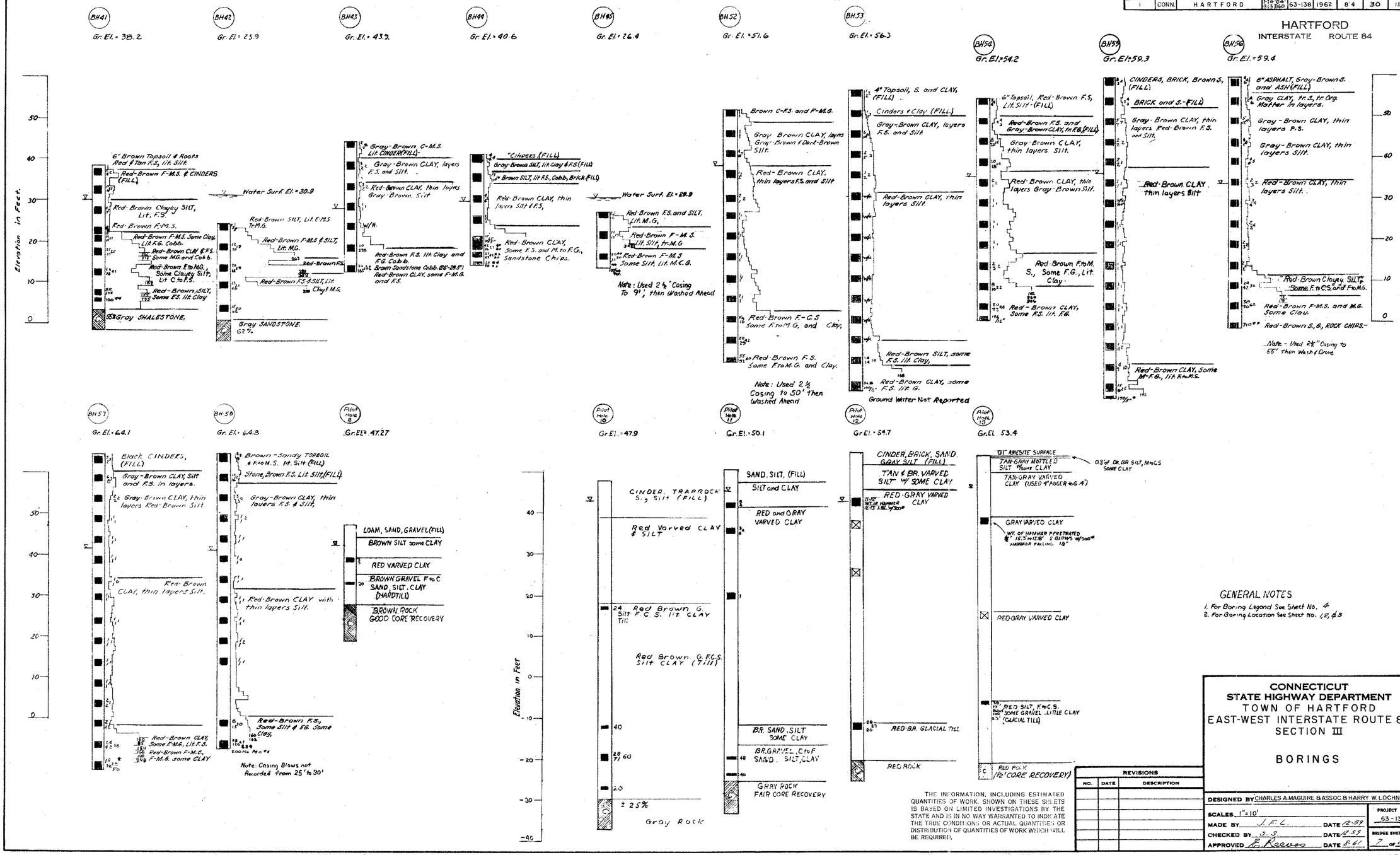
PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 6
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-06
SHEET NO. 01.11.07

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	T16-04-(313)060	63-138	1962	84	30	154

HARTFORD
INTERSTATE ROUTE 84



GENERAL NOTES
1. For Boring Legend See Sheet No. 4
2. For Boring Location See Sheet No. 1, 2 & 3

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.

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY CHARLES A. MAGUIRE & ASSOC. & HARRY W. LOCHNER
SCALES 1"=10'
MADE BY J.F.L. DATE 12-59
CHECKED BY J.S. DATE 12-59
APPROVED R. Reeves DATE 8-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 7 OF 88

30

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_007.dgn

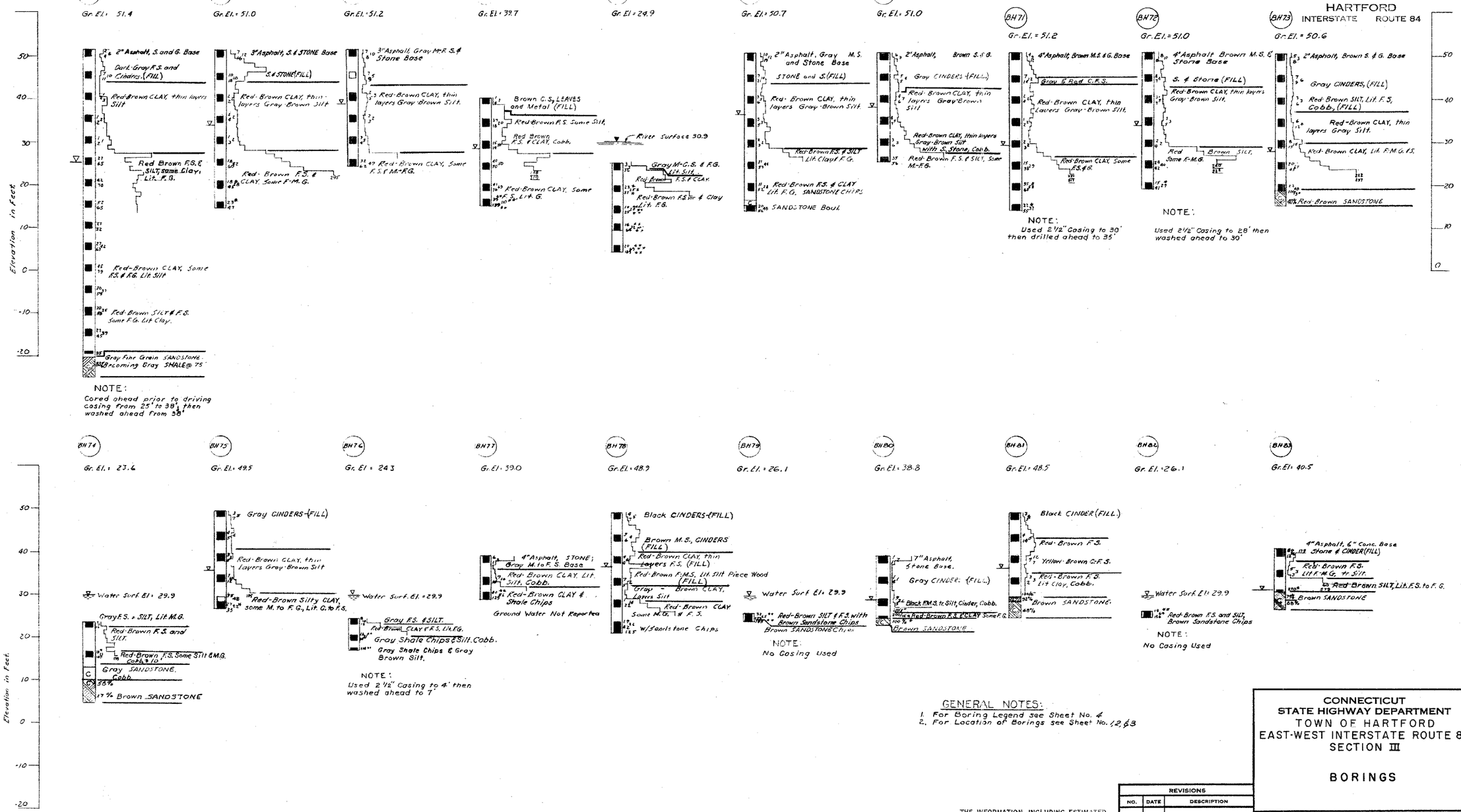
SIGNATURE/BLOCK: Hardesty & Hanover, 59 ELM STREET, SUITE 406, NEW HAVEN, CT 06510, (203) 772-2857

PROJECT TITLE: BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
PROJECT NO. 63-699
DRAWING TITLE: REFERENCE DRAWING - 7
FOR INFORMATION ONLY
DRAWING NO. REF-07
SHEET NO. 01.11.08

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-CD-86-1 (183) 80	63-138	1962	84	31	154

HARTFORD
INTERSTATE ROUTE 84



GENERAL NOTES:
1. For Boring Legend see Sheet No. 4
2. For Location of Borings see Sheet No. 1, 2, 63

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.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

DESIGNED BY CHARLES A. MAGUIRE & ASSOC. & HARRY W. LOCHNER
SCALES 1"=10'
MADE BY J. F. L. DATE 12-57
CHECKED BY S. S. DATE 12-57
APPROVED E. Rennie DATE 8-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 8 OF 38

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_008.dgn

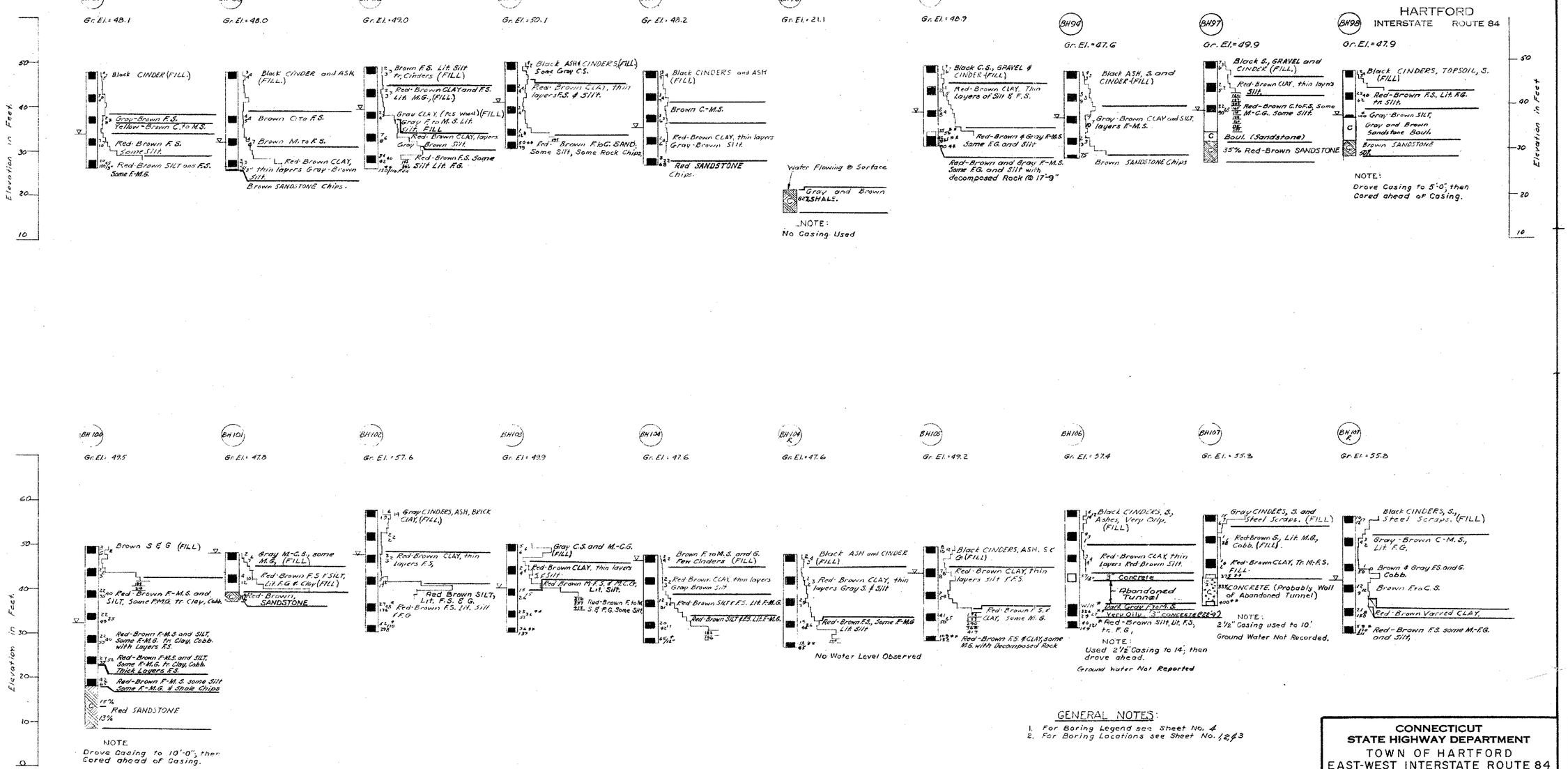
SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 8
FOR INFORMATION ONLY
PROJECT NO. 63-699
DRAWING NO. REF-08
SHEET NO. 01.11.09

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	F-15-084 S133160	63-138	1962	84	32	154

HARTFORD
INTERSTATE ROUTE 84



GENERAL NOTES:

1. For Boring Legend see Sheet No. 4
2. For Boring Locations see Sheet No. 1, 2 & 3

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.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

DESIGNED BY CHARLES A. MAGUIRE & ASSOC. & HARRY W. LOCHNER
SCALES 1" = 10'
MADE BY J. F. L. DATE 12-59
CHECKED BY S. S. DATE 12-59
APPROVED E. Lorenzo DATE 8-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 9 OF 80

32

FOR INFORMATION ONLY

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

Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference..Drawings..009.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

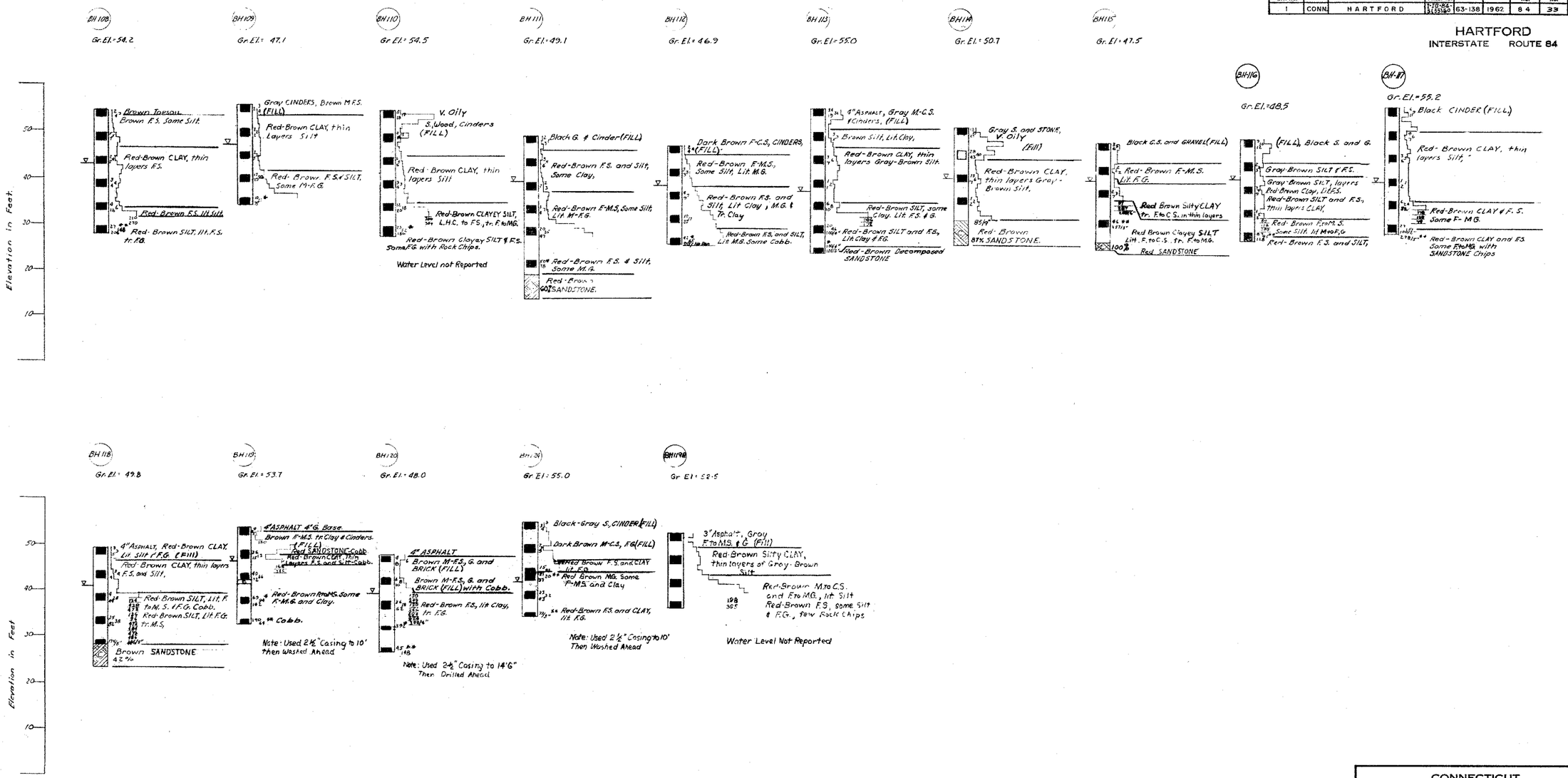
PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 9
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-09
SHEET NO. 01.11.10

FUS. ROAD SYY. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-75-84-1(139)90	63-138	1962	84	33	154

HARTFORD
INTERSTATE ROUTE 84



General Notes:
1. For Boring Legend see Sheet No. 4
2. For Boring Locations see Sheet No. 1, 2, & 3

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.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORINGS

DESIGNED BY CHARLES A. MAGUIRE & ASSOC. & HARRY W. LOCHNER
SCALES 1"=10'
MADE BY J.F.L. DATE 12-59
CHECKED BY S.S. DATE 12-59
APPROVED E. Kreuzer DATE 8-61
PROJECT NO. 63-138
BRIDGE SHEET NO. 10 OF 88

FOR INFORMATION ONLY

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

Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_010.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

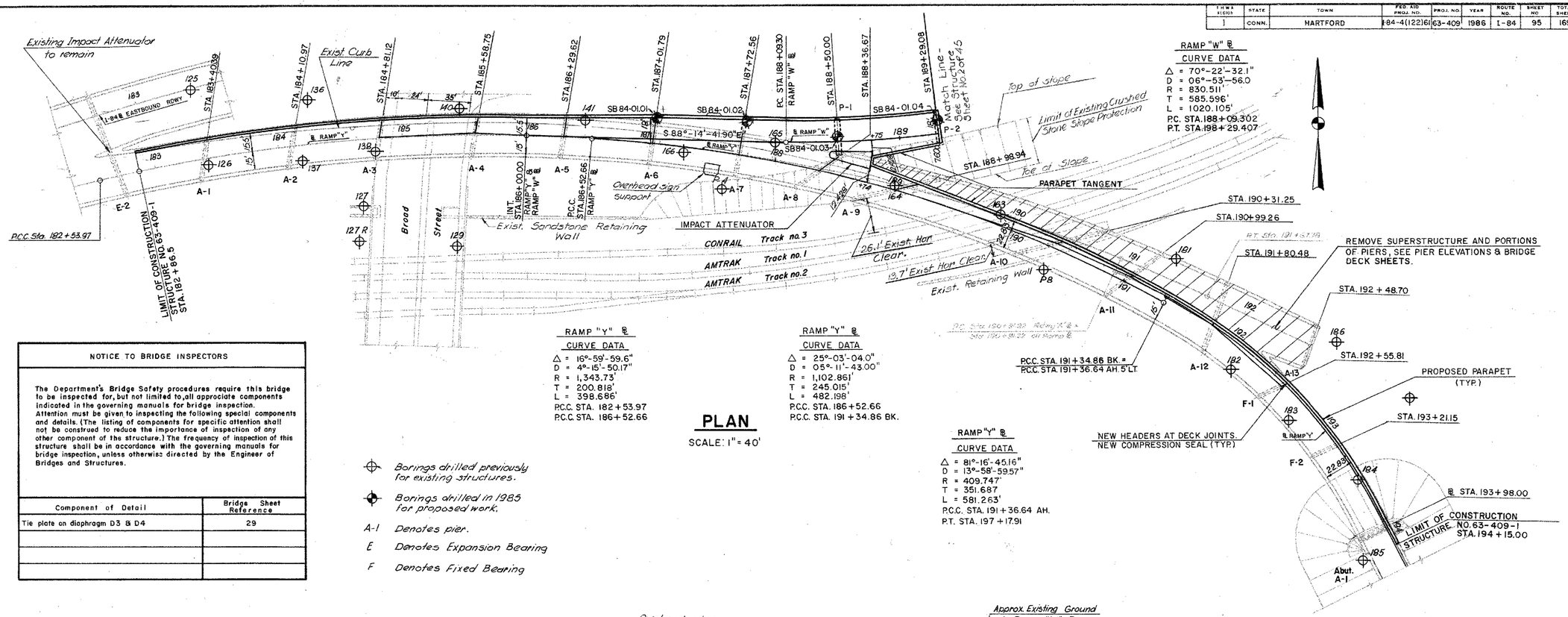
PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 10
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-10
SHEET NO. 01.11.11

FORM RO ENG 134 ED 4-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-84-4(122)61	63-409	1986	I-84	95	169



RAMP "W" ℄
CURVE DATA
Δ = 70°-22'-32.1"
D = 06°-53'-56.0
R = 830.511'
T = 585.596'
L = 1020.105'
P.C. STA. 188+09.302
P.T. STA. 198+29.407

RAMP "Y" ℄
CURVE DATA
Δ = 16°-59'-59.6"
D = 4°-15'-50.17"
R = 1,343.73'
T = 200.818'
L = 398.686'
P.C.C. STA. 182+53.97
P.C.C. STA. 186+52.66

RAMP "Y" ℄
CURVE DATA
Δ = 25°-03'-04.0"
D = 05°-11'-43.00"
R = 1,102.861'
T = 245.015'
L = 482.198'
P.C.C. STA. 186+52.66
P.C.C. STA. 191+34.86 BK.

RAMP "Y" ℄
CURVE DATA
Δ = 81°-16'-45.16"
D = 13°-58'-59.57"
R = 409.747'
T = 351.687'
L = 581.263'
P.C.C. STA. 191+36.64 AH.
P.T. STA. 197+17.91

PLAN

SCALE: 1" = 40'

NOTICE TO BRIDGE INSPECTORS	
The Department's Bridge Safety procedures require this bridge to be inspected for, but not limited to, all appropriate components indicated in the governing manuals for bridge inspection. Attention must be given to inspecting the following special components and details. (The listing of components for specific attention shall not be construed to reduce the importance of inspection of any other component of the structure.) The frequency of inspection of this structure shall be in accordance with the governing manuals for bridge inspection, unless otherwise directed by the Engineer of Bridges and Structures.	
Component of Detail	**Bridge Sheet Reference**
Tie plate on diaphragm D3 & D4	29

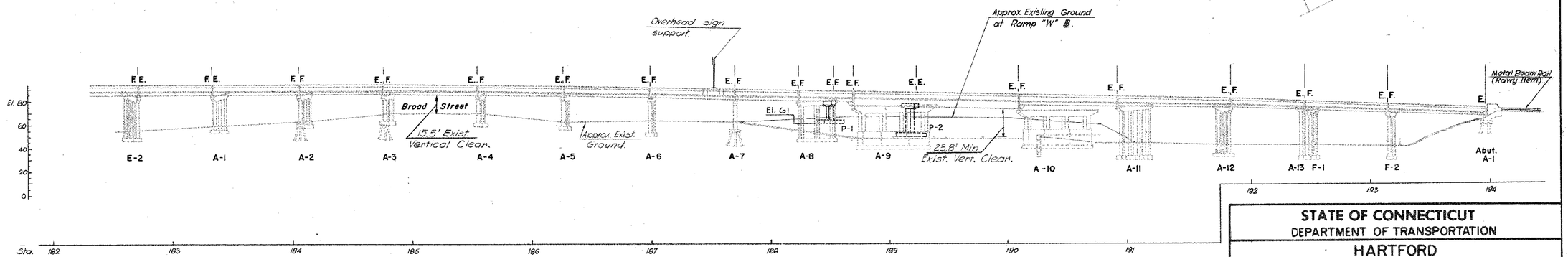
Borings drilled previously for existing structures.

Borings drilled in 1985 for proposed work.

A-1 Denotes pier.

E Denotes Expansion Bearing

F Denotes Fixed Bearing



ELEVATION OF RAMP "Y"

SCALE: 1" = 40'

THIS SHEET NOT CONSTRUCTED

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

HARTFORD

INTERSTATE ROUTE 84
RAMPS "W" & "Y"
OVER
BROAD ST, CONRAIL, AMTRAK & RAMP "Z"

GENERAL PLAN NO. 1

ENGINEER BERGER, LEHMAN ASSOCIATES, P.C. — BY STORCH ENGINEERS
DESIGNER G.J.G. — DRAFTER F.M.W. — CHECKER J.J.B.
APPROVED [signature] — DATE 11-12-85
STRUCTURE NO. 63 - 409 - 1 — BRIDGE LOG NO. — STRUCTURE SHEET NO. 1 of 45

FOR INFORMATION ONLY

63-409

295-01

95

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

Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_011.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD

DRAWING TITLE: REFERENCE DRAWING - 11
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-11
SHEET NO. 01.11.12

FORM NO. ENG. 154 10 4-80

FHWA REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-84-4(122)61	63-409	1986	I-84	101	169

EL. 70 — EL. 60 — EL. 50 — EL. 40 — EL. 30 — EL. 20 — EL. 10

HOLE NO. SB84-01.1

STORCH ENGINEERS BORING REPORT — SHEET 1 OF 2 — BORING NO. SB84-01.1

DATE STARTED: 4-2-85 DATE FINISHED: 4-4-85
CLIENT: Connecticut Department of Transportation (ConnDOT)
PROJECT NAME AND LOCATION: Modernization of Interchange I-84/91, Phase A
PROJECT NO.(S): #63-375 (ConnDOT); #4644 (Storch Engineers)
BORING CONTRACTOR: New England Boring Contractors, Inc. BORING FOREMAN: T. Roe
SOILS ENGINEER: Storch Engineers INSPECTOR: R. Huggi

EQUIPMENT	CASING	SPLIT SPOON (SS)	UNDISTURBED (US)	CORE BARREL	AUGER	OBS. WELL PIPE	OBS. WELL CAP	DRILLING RIG AND METHOD
TYPE	HW	Standard		NX				B-50 Truck Water Wash
SIZE	4"	1-3/8"		2-1/8"				
HAMMER WT/FALL	300lb/24"	140lb/30"		Diamond BIT				

SURFACE ELEVATION: 65.3 NORTH COORDINATE: 339,843 EAST COORDINATE: 617,398
SURFACE CONDITIONS: 15" R.C.P. Parallel to Capitol Avenue Off-Ramp 5 to 10"N, between Piers A5-A8
GROUNDWATER AT 13.5 FT. AFTER 1/2 HRS. FT. AFTER HRS.

DEPTH BELOW GND.	CASING BLOWS PER FT.	TYPE & NO.	DEPTH FROM-TO	PEN IN.	REC IN.	BLOWS/6" OR CORE TIME	STRATA DEPTH/ELEV.	DESCRIPTION AND REMARKS (Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%)
0		SS1	0 to 2	24	14	7-17-22-32		Redbrown fine to coarse SAND & SILT some fine to coarse gravel, shale chips (FILL)
5	42, 35, 23, 57, 155	SS2	5 to 7	24	14	8-22-18-14	8.5 / 56.8	Black fine to coarse SAND, little silt, cinders etc. (FILL)
10		SS3	10 to 12	24	12	40-58-68-105		Redbrown clayey SILT, little fine to medium gravel, little fine to coarse sand (TILL)
15		SS4	15 to 15.9	11	11	84-105/5"		Same
20		SS5	20 to 22	24	12	28-41-47-67		Same
25		SS6	25 to 27	24	7	24-47-62-78		Same
35			35 to 35.1	1	0	90/1"	37.5 / 27.8	No recovery, roller bit to 37.5'
40		C1	37.5-41.5	48	47	5 min/ft, 7 min/ft, 8½ min/ft, 9 min/ft	41.5 / 23.8	Redbrown SHALE RQD = 57% REC = 98%; Redbrown SHALE
								E.O.B. at 41.5'
								Note: Drilled ahead of casing from 10' to 37.5'

TYPE A BORING HW CASING 0 TO 10.0 FT THEN No CASING TO 41.5 FT.
QUANTITIES: 37.5 L.F. SOIL 4.0 L.F. ROCK 6 SS SAMPLES 0 US TUBES 0 L.F. OW PIPE

HOLE NO. SB84-01.2

STORCH ENGINEERS BORING REPORT — SHEET 1 OF 2 — BORING NO. SB84-01.2

DATE STARTED: 4-2-85 DATE FINISHED: 4-3-85
CLIENT: Connecticut Department of Transportation (ConnDOT)
PROJECT NAME AND LOCATION: Modernization of Interchange I-84/91, Phase A
PROJECT NO.(S): #63-375 (ConnDOT); #4644 (Storch Engineers)
BORING CONTRACTOR: New England Boring Contractors, Inc. BORING FOREMAN: G. Wishart
SOILS ENGINEER: Storch Engineers INSPECTOR: R. Tedeschi

EQUIPMENT	CASING	SPLIT SPOON (SS)	UNDISTURBED (US)	CORE BARREL	AUGER	OBS. WELL PIPE	OBS. WELL CAP	DRILLING RIG AND METHOD
TYPE	NW	SS		NX				Skid Rig Water Wash
SIZE	3"	1-3/8"		2-1/8"				
HAMMER WT/FALL	300lb./30"	140lb/30"		Diamond BIT				

SURFACE ELEVATION: 65.2 NORTH COORDINATE: 339,835 EAST COORDINATE: 617,470
SURFACE CONDITIONS: 15" R.C.P. Parallel to Capitol Avenue Off-Ramp between Piers A5-A8
GROUNDWATER AT 10.5 FT. AFTER 16 HRS. FT. AFTER HRS.

DEPTH BELOW GND.	CASING BLOWS PER FT.	TYPE & NO.	DEPTH FROM-TO	PEN IN.	REC IN.	BLOWS/6" OR CORE TIME	STRATA DEPTH/ELEV.	DESCRIPTION AND REMARKS
0	34, 24, 35, 33	SS1	0 to 2	24	18	6-14-24-23		Redbrown fine to coarse SAND, some silt, little gravel, trace organics bricks (FILL)
5	17, 22, 25, 23, 55	SS2	5 to 7	24	13	12-8-5-7		Redbrown SILT & CLAY, and fine to medium SAND, little fine gravel (SC) (Laboratory Description) (FILL) Sieve - 200 = 43% Water Content=13.4%
10	31, 41, 46, 70, 134	SS3	10 to 12	24	6	32-37-36-49	14.0 / 51.2	Brown fine to medium SAND, some silt little gravel (FILL)
15		SS4	15 to 16.1	12.1	12	43-86-100/½"		Redbrown CLAY & SILT, some (+) fine to medium SAND, trace gravel (CL) (Lab. Descrip.) (TILL) Sieve-200=60% Hydro.-2 mic=22% W. Cont.=10.5%
20		SS5	20 to 22	24	18	20-80-82-89		Redbrown fine to medium SAND, some clay, trace gravel (TILL)
25		C	24.5-29.5	60	46	13½ min/ft, 5 min/ft, 5 min/ft, 5 min/ft, 7 min		Cored through cemented Till, cobbles, boulders (77% recovery)
30		SS 6	30 to 31.3	16	16	41-80-100/4"		Redbrown fine to coarse SAND, some clay, trace gravel (TILL)
35								Roller Bit to 45'
45		C	45-50	60	54	9 min/ft, 10 min/ft, 10 min/ft, 8 min/ft, 7 min/ft	45.0 / 20.2	Redbrown SHALE RQD = 45% REC = 90%
50							50.0 / 15.2	E.O.B. at 50.0'
								Note: Drilled ahead of casing from 15' to 24'

TYPE A BORING NW CASING 0 TO 15.0 FT THEN No CASING 15.0 TO 50.0 FT.
QUANTITIES: 45 L.F. SOIL 5 L.F. ROCK 6 SS SAMPLES 0 US TUBES 0 L.F. OW PIPE

HOLE NO. SB84-01.3

STORCH ENGINEERS BORING REPORT — SHEET 1 OF 1 — BORING NO. SB84-01.3

DATE STARTED: 4-2-85 DATE FINISHED: 4-3-85
CLIENT: Connecticut Department of Transportation (ConnDOT)
PROJECT NAME AND LOCATION: Modernization of Interchange I-84/91, Phase A
PROJECT NO.(S): #63-375 (ConnDOT); #4644 (Storch Engineers)
BORING CONTRACTOR: New England Boring Contractors, Inc. BORING FOREMAN: G. Wishart
SOILS ENGINEER: Storch Engineers INSPECTOR: R. Tedeschi

EQUIPMENT	CASING	SPLIT SPOON (SS)	UNDISTURBED (US)	CORE BARREL	AUGER	OBS. WELL PIPE	OBS. WELL CAP	DRILLING RIG AND METHOD
TYPE	NW	SS						Skid Rig Water Wash
SIZE	3"	1-3/8"						
HAMMER WT/FALL	300lb./30"	140lb/30"		BIT				

SURFACE ELEVATION: 65.2 NORTH COORDINATE: 339,835 EAST COORDINATE: 617,470
SURFACE CONDITIONS: 15" R.C.P. Parallel to Capitol Avenue Off-Ramp between Piers A5-A8
GROUNDWATER AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GND.	CASING BLOWS PER FT.	TYPE & NO.	DEPTH FROM-TO	PEN IN.	REC IN.	BLOWS/6" OR CORE TIME	STRATA DEPTH/ELEV.	DESCRIPTION AND REMARKS
0	20, 29, 28, 22, 34	SS-1	0 to 2	24	6	7-26-19-16		Redbrown SILT & CLAY and fine to medium SAND, some (-) fine gravel (SC) (Laboratory Description) (FILL) Sieve-200=46% Water Content=8.9%
5	39, 27, 25, 27, 28	SS-2	5 to 7	24	20	20-22-9-9		Same
10	30, 27, 46, 77, 67	SS-3	10 to 12	24	6	22-10-9-9	15.0 / 51.5	Same
15	42, 36, 25, 17, 15	SS-4	15 to 17	24	20	15-11-15-33	17.0 / 49.5	/Redbrown SILTY CLAY, trace fine sand (CH) (Lab. Descrip.) (VARVED CLAY) W. Cont.=34.2% LL=51% PL=28% Sieve-200=93% Hydr-2mic=42%/
20		SS-5	20 to 22	24	4	10-20-28-39		Redbrown fine GRAVEL and SILT & CLAY, some fine to medium SAND (GC) (Laboratory Description) (TILL) Sieve-200=38% Water Content=7.1%
30		SS-6	30 to 30.3	3	3	165/3"	30.3 / 34.9	Same, Refusal at 30.3' — E.O.B. at 30.3'

TYPE A BORING HW CASING 0 TO 20.0 FT THEN No CASING 20.0 TO 30.3 FT.
QUANTITIES: 30 L.F. SOIL 0 L.F. ROCK 6 SS SAMPLES 0 US TUBES 0 L.F. OW PIPE

HOLE NO. SB84-01.4

STORCH ENGINEERS BORING REPORT — SHEET 1 OF 2 — BORING NO. SB84-01.4

DATE STARTED: 4-2-85 DATE FINISHED: 4-3-85
CLIENT: Connecticut Department of Transportation (ConnDOT)
PROJECT NAME AND LOCATION: Modernization of Interchange I-84/91, Phase A
PROJECT NO.(S): #63-375 (ConnDOT); #4644 (Storch Engineers)
BORING CONTRACTOR: New England Boring Contractors, Inc. BORING FOREMAN: T. Roe
SOILS ENGINEER: Storch Engineers INSPECTOR: R. Huggi

EQUIPMENT	CASING	SPLIT SPOON (SS)	UNDISTURBED (US)	CORE BARREL	AUGER	OBS. WELL PIPE	OBS. WELL CAP	DRILLING RIG AND METHOD
TYPE	HW	SS		NX	Solid	PVC	Lock	B-50 Truck Rig Water Wash
SIZE	4"	1-3/8"		2-1/8	4"	2"	4"x5'	
HAMMER WT/FALL	300lb./24"	140lb/30"		Diamond BIT				

SURFACE ELEVATION: 66.3 NORTH COORDINATE: 339,830 EAST COORDINATE: 617,615
SURFACE CONDITIONS: 18" RCP, 5' to 10' S of and parallel to holes SB84-01.3, -01.4 and -01.5
GROUNDWATER AT 16.5 FT. AFTER 20 HRS. FT. AFTER HRS. See OW Records

DEPTH BELOW GND.	CASING BLOWS PER FT.	TYPE & NO.	DEPTH FROM-TO	PEN IN.	REC IN.	BLOWS/6" OR CORE TIME	STRATA DEPTH/ELEV.	DESCRIPTION AND REMARKS
0		SS1	0 to 1.5	18	18	3-21-3		Brown fine to coarse SAND, some silt trace brick, trace ash (FILL) Auger to 5'
5	15, 19, 19, 21, 17	SS2	5 to 7	24	10	4-4-3-3		Same
10	12, 17, 53, 77, 132	SS3	10 to 12	24	8	6-5-4-7	12.0 / 54.3	Same, some brick
15		SS4	15 to 17	24	18	9-14-17-21		Redbrown silty CLAY, little fine to medium sand, trace clay, trace gravel (TILL) SS-4 Pocket Penetrometer: 4.0 TSF (Standard 1/4" penetration of 1/4" Diameter shaft)
20		SS5	20 to 22	24	18	20-45-57-71		Redbrown SILT, little fine to medium sand, trace clay, trace gravel (TILL) SS-5 Pocket Penetrometer: Over 4.5 TSF (1/8" penetration for instrument limit of 4.5 TSF)
25		SS6	25 to 27	24	16	21-62-72-89		Same
30		SS7	30 to 32	24	6	19-41-60-65		Same, some gravel
35		SS8	35 to 35.8	10	4	24-124/4		Same
40		SS9	40 to 40.3	3	2	100/3"		Same
45		SS10	45-45.1	1	1	100/1"	45.1 / 21.2	Same, Top of Rock
		C-1	45.1 to 50.1	60	60	4.5 min/ft, 5.0, 6.0, 5.5, 6.0		Redbrown SILTSTONE RQD= 50% REC=100%
50							50.1 / 16.2	E.O.B. at 50.1'
55								Installed Observation Well. Bottom of 5' screen 29.5' below ground

TYPE A BORING HW CASING 0 TO 15 FT THEN No CASING 15 TO 50.1 FT.
QUANTITIES: 45 L.F. SOIL 5 L.F. ROCK 10 SS SAMPLES 0 US TUBES 31.4 L.F. OW PIPE

THIS SHEET NOT CORRECTED

THIS SHEET NOT CORRECTED

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
HARTFORD
INTERSTATE ROUTE 84
RAMPS "W" & "Y"
OVER
BROAD ST., CONRAIL, AMTRAK & RAMP "Z"
BORING SHEET

ENGINEER BERGER, LEHMAN ASSOCIATES, P.C. BY STORCH ENGINEERS
DESIGNER G.J.G. DRAFTER J.J. CHECKER J.J.B.
APPROVED [signature] DATE 11-18-85
STRUCTURE NO. 63-409-1 BRIDGE LOG NO. STRUCTURE SHEET NO. 7 of 45

FOR INFORMATION ONLY

63-409 101 295-01

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

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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

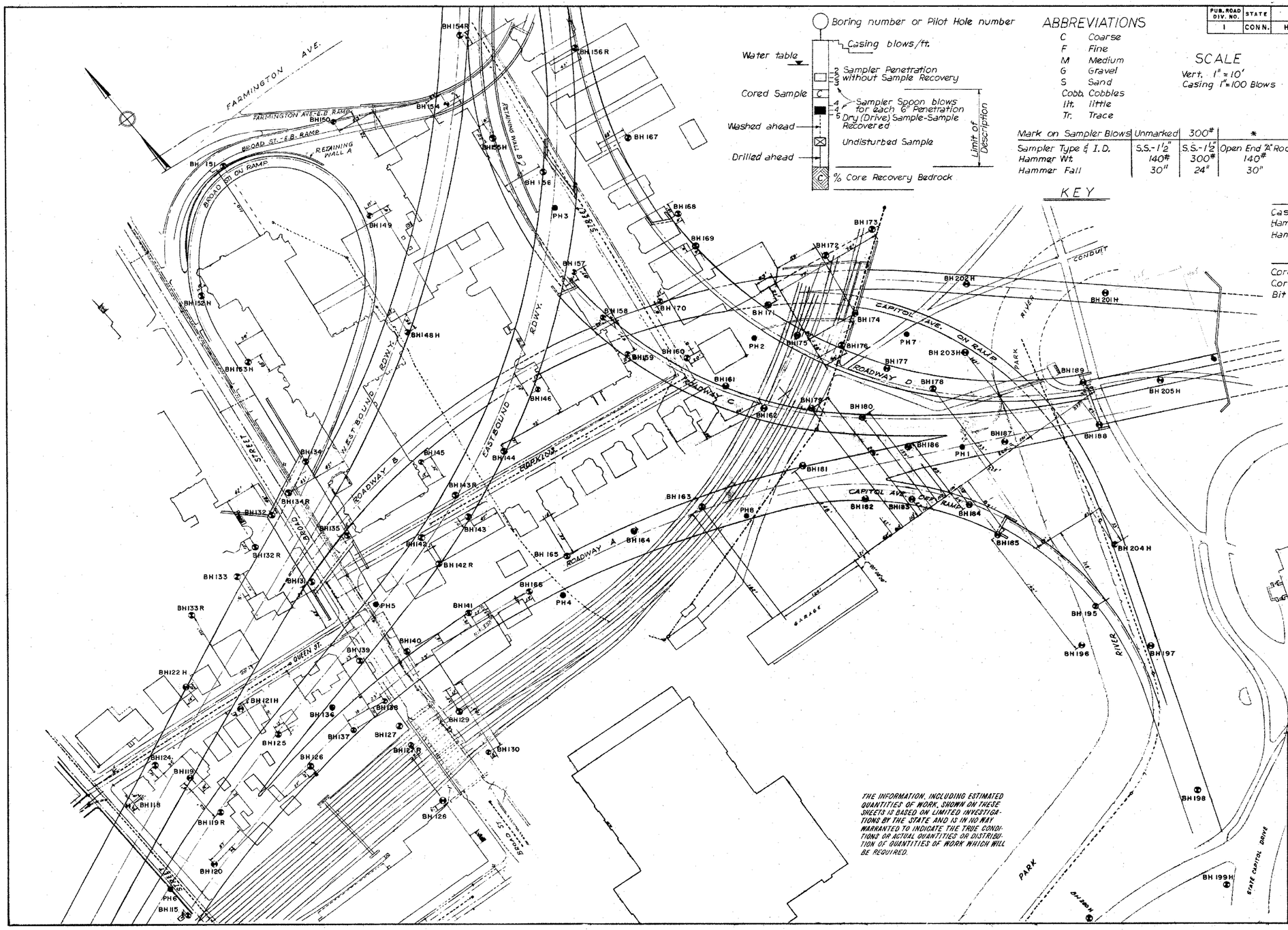
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: ...\Reference_Drawings_012.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 12
FOR INFORMATION ONLY
PROJECT NO. 63-699
DRAWING NO. REF-12
SHEET NO. 01.11.13

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-IG-84-1(046)	63-174	1965	I-84	43	188



Boring number or Pilot Hole number

Casing blows/ft.

Water table

Sampler Penetration without Sample Recovery

Cored Sample

Sampler Spoon blows for each 6" Penetration

Washed ahead

Dry (Drive) Sample-Sample Recovered

Undisturbed Sample

Drilled ahead

% Core Recovery Bedrock

Limit of Description

ABBREVIATIONS

C	Coarse
F	Fine
M	Medium
G	Gravel
S	Sand
Cobb.	Cobbles
lit.	little
Tr.	Trace

SCALE

Vert. 1" = 10'
Casing 1" = 100 Blows

KEY

Mark on Sampler Blows	Unmarked	300#	*	* *
Sampler Type & I.D.	S.S.-1½"	S.S.-1½"	Open End "A" Rod	Open End "A" Rod
Hammer Wt.	140#	300#	140#	300#
Hammer Fall	30"	24"	30"	24"

	All Borings except B H 138	B H 138
Casing I.D.	2½"	3½"
Hammer Wt.	300 lbs.	300 lbs.
Hammer Fall	24"	24"

	All Borings except B.H. 118	
Core Bar Type	Double Tube	Single Tube
Core Bar I.D.	1⅜"	1⅜"
Bit	B-Dia.	B-Dia.

NO REVISIONS SUBMITTED FOR THIS SHEET

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CONNECTICUT
STATE HIGHWAY DEPARTMENT

TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORING LOCATIONS

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W. LOCHNER
SCALES 1" = 60'-0"
MADE BY H.N. & J.J.N. DATE 12/7/69
APPROVED [illegible] DATE 12/18/69
PROJECT NO. 63-174
BRIDGE SHEET No. 4 OF 60

63-174

M341 01

43

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

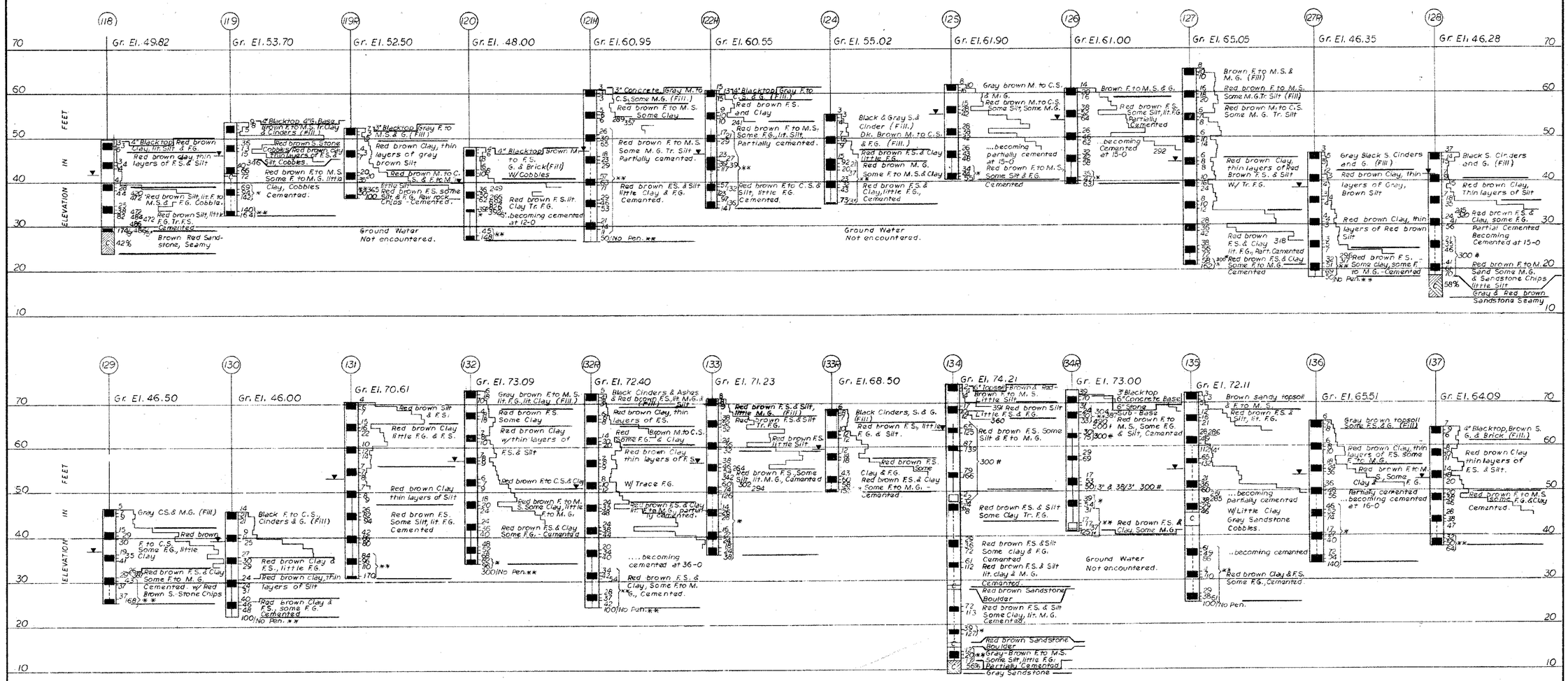
Filename: ...\Reference_Drawings_013.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
PROJECT NO. 63-699
DRAWING TITLE: REFERENCE DRAWING - 13
FOR INFORMATION ONLY
DRAWING NO. REF-13
SHEET NO. 01.11.14

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-IG-84-3(406)	63-174	1963	I-84	44	188



NOTE:
For Boring Key see Bridge Sh. No. 4

NO REVISIONS SUBMITTED FOR THIS SHEET

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III
BORING LOGS
118 THRU 137

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W. LOCHNER

SCALES VERT. 1" = 10'; CASING 1" = 100 BLOWS
MADE BY HN & JJN DATE 12/7/59
APPROVED DATE 12/8/59
PROJECT NO. 63-174
BRIDGE SHEET NO. 5 OF 60

M 341 01

63 174

44

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

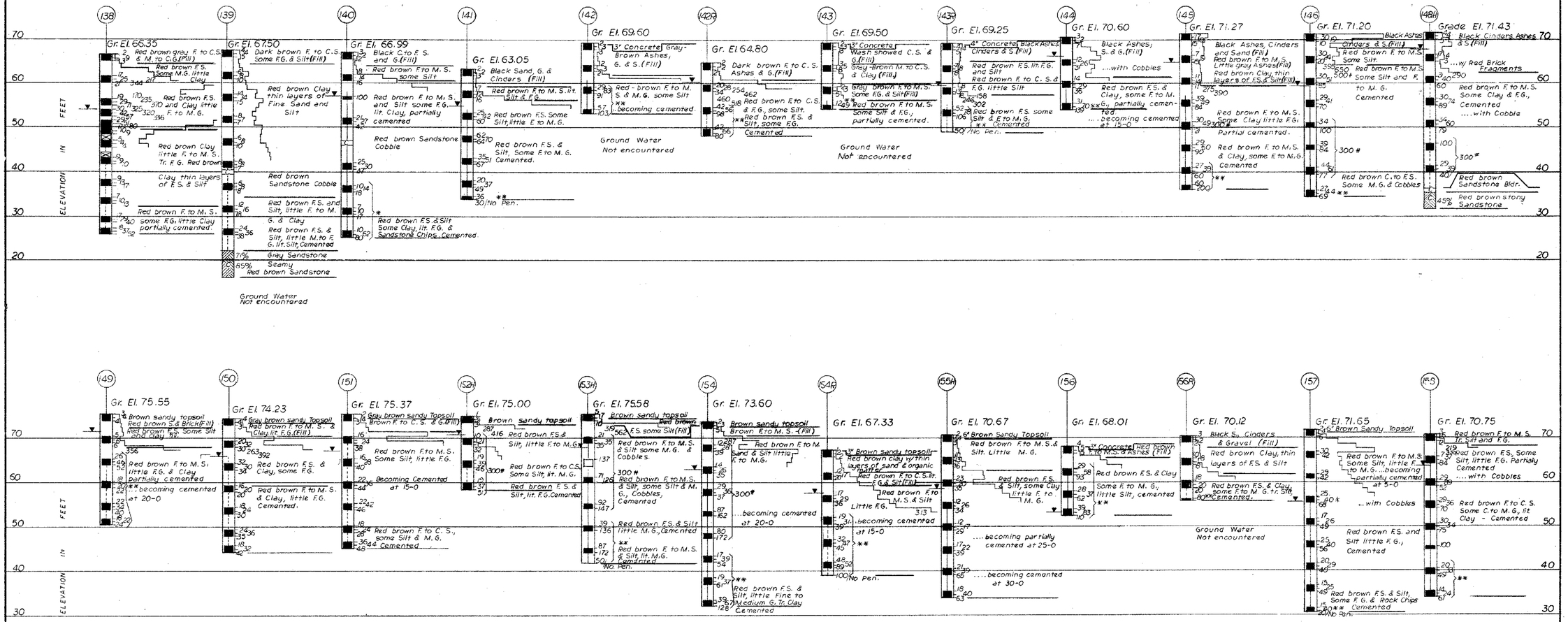
Filename: ...\Reference_Drawings_014.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 14
FOR INFORMATION ONLY
PROJECT NO. 63-699
DRAWING NO. REF-14
SHEET NO. 01.11.15

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-084-3(A)061	63-174	1963	I-84	45	188



NOTE:
For Boring Key see Bridge Sh. No. 4

NO REVISIONS SUBMITTED FOR THIS SHEET.

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CONNECTICUT
STATE HIGHWAY DEPARTMENT

TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III
BORING LOGS
138 THRU 158

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W. LOCHNER
SCALES VERT. 1" = 10'; CASING 1" = 100 BLOWS
MADE BY H.N. & J.J.N. DATE 12/17/59
APPROVED [signature] DATE 12/18/59
PROJECT NO. 63-174
BRIDGE SHEET No. 6 OF 60

63 174

M 341 01

45

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

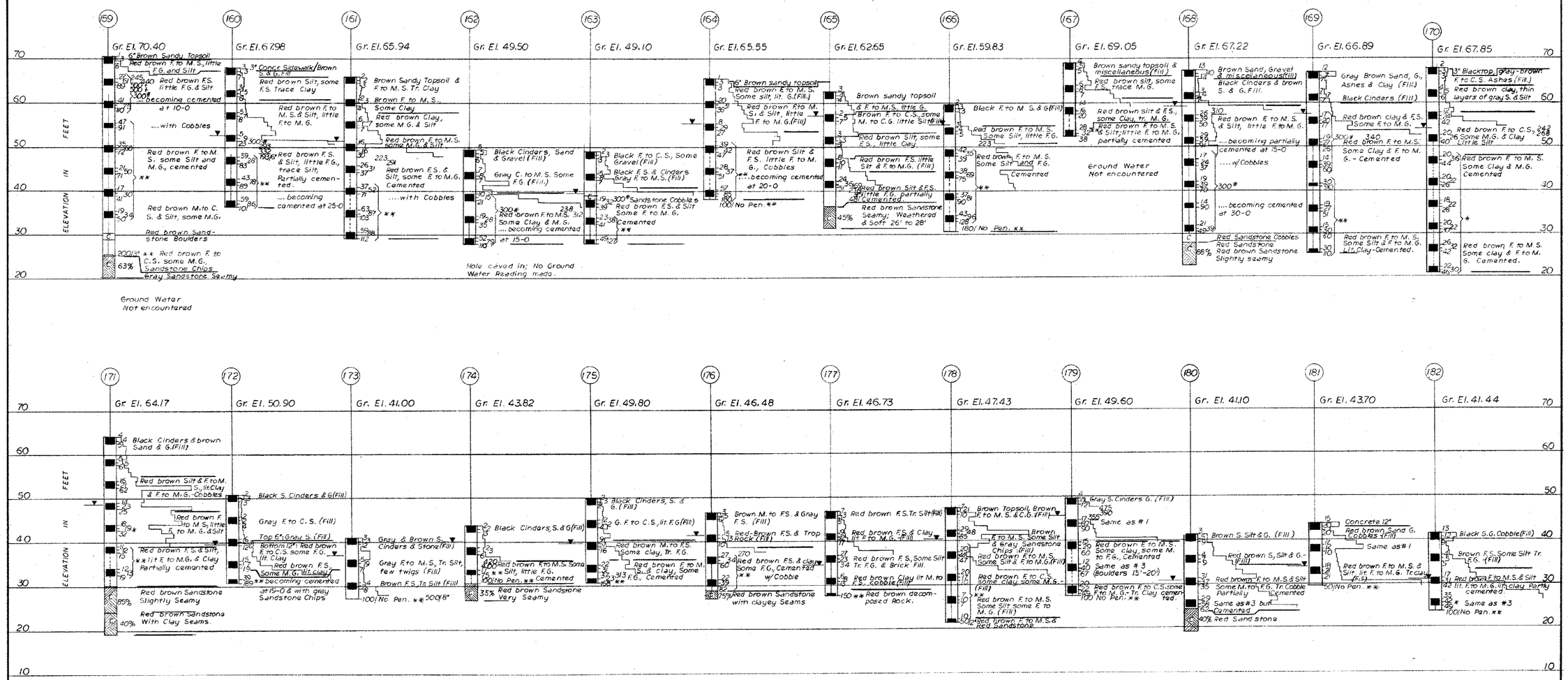
Filename: ...\Reference_Drawings_015.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
PROJECT NO. 63-699
DRAWING TITLE: REFERENCE DRAWING - 15
FOR INFORMATION ONLY
DRAWING NO. REF-15
SHEET NO. 01.11.16

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-IG-84-3(34)61	63-174	1963	I-84	46	188



NOTE:
For Boring Key see Bridge Sh. No. 4

NO REVISIONS SUBMITTED FOR THIS SHEET

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CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III

BORING LOGS
159 THRU 182

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W. LOCHNER

SCALES VERT. 1"=10' ; CASING 1"=100 Blows
MADE BY H.N. & J.J.N. DATE 12-17-59
APPROVED [signature] DATE 12/18/59

PROJECT NO. 63-174
BRIDGE SHEET NO. 7 OF 60

FOR INFORMATION ONLY

63 174

M 341 01

46

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_016.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

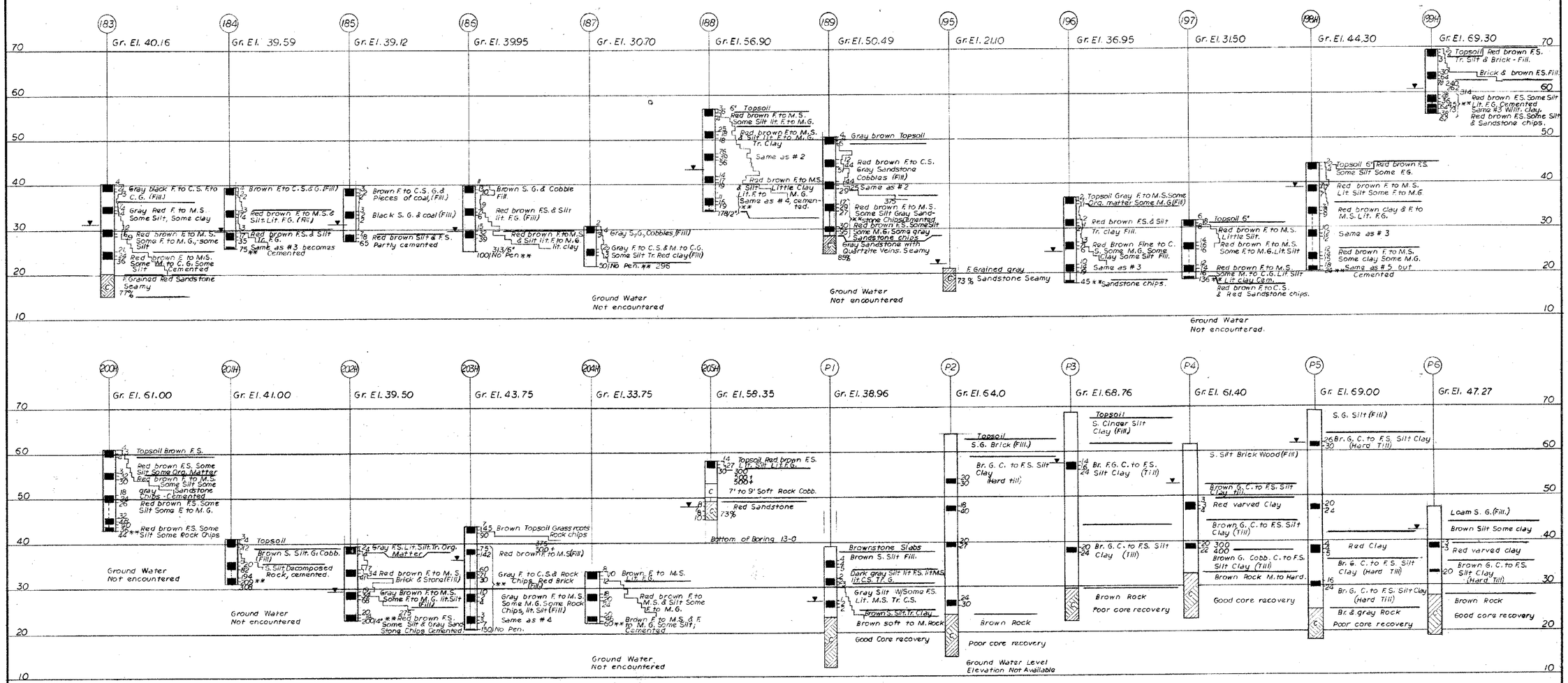
TOWN: HARTFORD

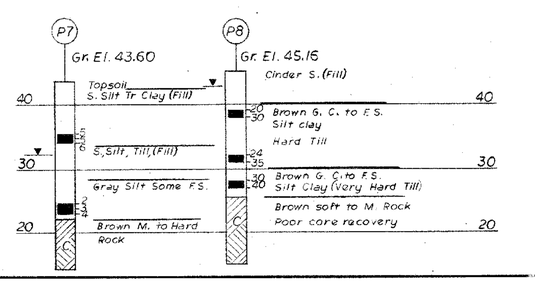
DRAWING TITLE: REFERENCE DRAWING - 16

FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-16
SHEET NO. 01.11.17

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	HARTFORD	I-084-3(14)61	63-174	1963	I-84	47	188





NOTE:
For Boring Key see Bridge Sh. No. 4

NO REVISIONS SUBMITTED FOR THIS SHEET.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT
STATE HIGHWAY DEPARTMENT

TOWN OF HARTFORD
EAST-WEST INTERSTATE ROUTE 84
SECTION III
BORING LOGS 183 THRU 205
PILOT LOGS 1 THRU 8

DESIGNED BY CHARLES A. MAGUIRE AND ASSOC. & HARRY W LOCHNER
SCALES VERT. 1" = 10'; CASING 1" = 100 BLOWS
PROJECT NO. 63-174
MADE BY H N & J T N DATE 12/17/59
APPROVED [signature] DATE 12/16/59
BRIDGE SHEET NO. 8 OF 60

63 174

M341 01

47

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 5/26/2016

DESIGNER/DRAFTER: MSF
CHECKED BY: BSH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Reference_Drawings_017.dgn

SIGNATURE/BLOCK:
Hardesty & Hanover
59 ELM STREET, SUITE 406
NEW HAVEN, CT 06510
(203) 772-2857

PROJECT TITLE:
BRIDGE NO. 03160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN: HARTFORD
DRAWING TITLE: REFERENCE DRAWING - 17
FOR INFORMATION ONLY

PROJECT NO. 63-699
DRAWING NO. REF-17
SHEET NO. 01.11.18