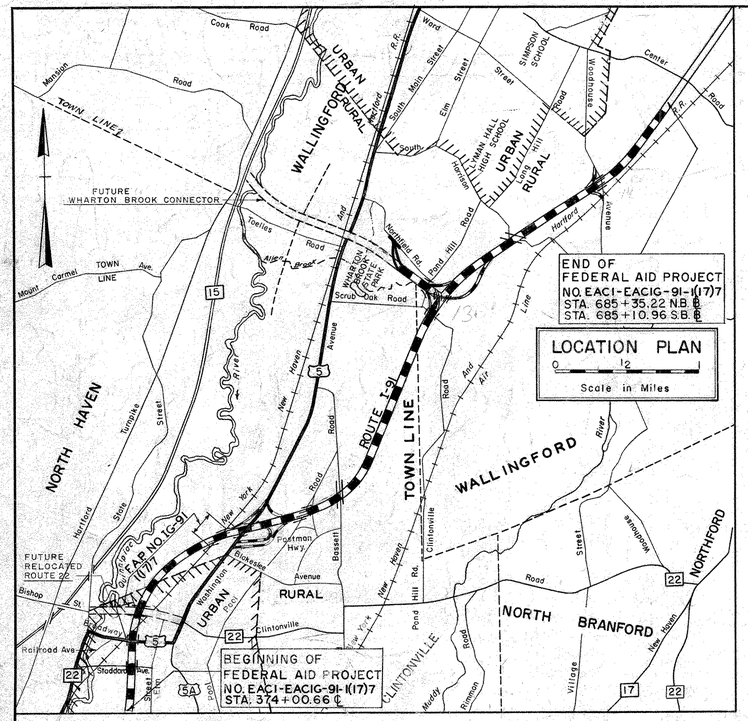
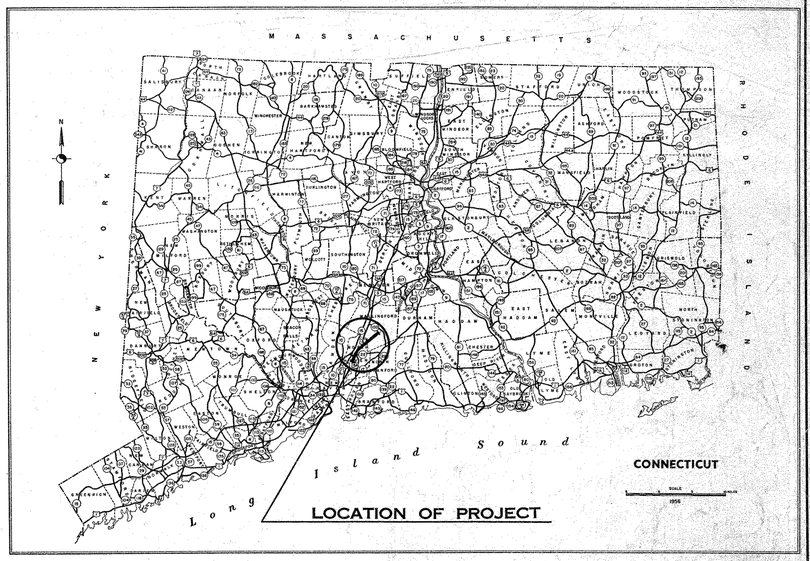
FORM NO. ENG. 6 ED. 11-56

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJECT NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN & WALLINGFORD	EACI-EACIG-91-1(17)7	100-60	1963	I-91	1	812





CONNECTICUT
STATE HIGHWAY DEPARTMENT
PLAN
FOR
CONSTRUCTION
OF
INTERSTATE ROUTE 91

IN THE TOWNS OF

NORTH HAVEN AND WALLINGFORD

FROM STA. ℄ 374+00.66 TO STA ℔ N.B. 685+35.22 / ℔ S.B. 685+10.96

LENGTH 31,120.01 FT.

HIGHWAY DESIGN SCALES: PLAN 1 IN. = 40 FT. | PROFILE HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT. | CROSS SECTIONS 1 IN. = 5810 FT. OTHER SCALES AS NOTED

TO BE MAINTAINED BY THE STATE

FEDERAL AID PROJECT NO. EACI-EACIG-91-1(17)7

FEDERAL AID LENGTH 31,120.01'

CONSTRUCTION STARTED ..... DATE MAY 4, 1964
CONSTRUCTION COMPLETED ..... DATE JAN. 6, 1966

1955 SPECIFICATIONS, FORM NO., 808 GOVERN

ALL ELEVATIONS ON THIS PROJECT BASED ON U.S.C. AND G.S. DATUM

TOWN NO. 100
PROJECT NO. 60

REVISED FEDERAL AID PROJECT NUMBER
WHEREVER FEDERAL AID PROJECT NUMBER EACI-EACIG-91-1(17)7 APPEARS ON THE PLANS IT SHALL BE CONSTRUED TO READ I-IG-91-1(17)7

FEDERAL AID INTERSTATE SYSTEM
ASSUMED DESIGN SPEED=70 MPH
ANTICIPATED ADT in 1975=51,400
30 HIGHEST HOUR DIRECTIONAL TRAFFIC in 1975=3,800
CHD CLASSIFICATION- G-URBAN (RES)
LIMITED ACCESS
1958 GEOMETRIC HIGHWAY DESIGN STANDARDS (MODIFIED)

SHEET No.	DESCRIPTION	DATE
56A, 61A, 64A, 68A	Added For Construction Order	12-2-63
10A, 13A, 16A, 516A	Revised Stillman Road Quantities	3-3-64
29A, 50A	Added for Stillman Road Drainage Details	3-3-64
30A	Added for Stillman Road Typical Sections	3-3-64
43A, 48A, 49A, 649B	Taking Line & Ramp 'B' alignment revised	3-3-64
B12A-1 thru B12A-35	Added Plans, Profiles & Cross Sections for Stillman Road	3-3-64
2A, 3A, 4A, 5A, 23A, 32A, 33A, 45B, 49C, 50B, 64A, 68A, 70A, 72A, 94A, 97A, 98A, 103A, 103B, 105A, 112A, 126A, 578A, 580A, 602A, 604A, 738A, 772A thru 790A, 806B, 814A, 830A, B06A, B12A-3A, B12A-5A	Added For Construction Order	7-21-64
61AA	Added For Construction Order	9-18-64
1	Added For Construction Order	9-18-64
61AA	Added For Construction Order	10-13-64
560	" " "	" " "
2nd, 2nd A, 2nd B, 34A, 34B, 51A, 304A, 305A, 306A, 306B, 316A, 316B, 350A, 350B, 358A, 358A, B12A-7A, B12A-9A, B12A-11A, B12A-13A	ADDED FOR CONSTRUCTION ORDER	12-11-64
61B	Added for Construction Order	4-9-65

DESIGNED BY:
FIRM NAME GOODKIND & O'DEA CONSULTING ENGINEERS
PER Donald R. Goodkind
CONN. PROF. ENG. REG. NO. 3490
DATE October 10, 1962

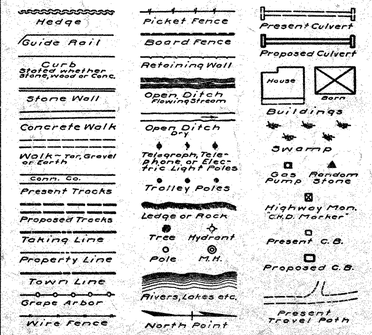
"GOODKIND & O'DEA DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OF ANY DESIGNS AND PLANS WHICH HAVE BEEN PREPARED BY OTHERS AND INCLUDED HEREIN."

SUBMITTED Aug. 12, 1963
Maxwell Kramer
ENGINEER OF DESIGN (CONSULTING ENGINEERS)
APPROVAL RECOMMENDED August 13 1963
CHIEF OF DESIGN
APPROVED Aug 13 1963
DIRECTOR OF PLANNING & DESIGN

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED:
DIVISION ENGINEER DATE

UTILITY RELOCATION PLANS	
SHT. NO.	UTILITY
A-1-A-3	New Haven Gas Co.
B-1-B-3	New Haven Water Co.
C-1-C-2	N.Y.N.H. & H. Railroad Co.
D-1-D-10	S.N.E.T. Co.
E-1	Algonquin Gas Trans. Co.
F-1	Connecticut Gas Co.
G-1	Connecticut Light & Power Co.
H-1-H-9	United Illuminating Co.
I-1-I-4	Borough Electric Works
J-1	Wallingford Water Co.

STANDARD CONVENTIONS



NO.	STANDARD DRAWINGS	BUREAU OF PUBLIC ROADS APPROVAL DATE
217-B	Two Cable Guide Railing	5-7-62
217-C	Three Cable Guide Railing	5-7-62
217-D	Wire Rope Railing Three Cable (Wood Posts)	5-7-62
220-A	Metal Beam Type Rail (Type MD-B)	5-7-62
221-F	Endwalls, Wingwalls Sloped Paved Outlets	5-7-62
221-G	D-G Endwalls, Reinf. Concrete Pipe	5-7-62
221-H	Foundation U'drain, U'drain, Outlet & Perf. Pipe	7-17-62
222-B	Concrete Steps, Concrete Sidewalk, Paved Ditch	5-7-62
222-C	Curbing	5-7-62
223-A	Manhole	5-7-62
226-A	A.C.C.M. Drop Inlets & Elbows	5-7-62
228-A	Type "C" Catch Basin & Drop Inlet	5-7-62
228-B	Type C-G Catch Basin	5-7-62
228-C	Type "C-L" Catch Basin	5-7-62
228-D	Frames & Grates For Type "C" C-G" C-L" C.B. & D.I.'s	5-7-62
241-J	Paving Details For Reinforced Concrete Pavement	
242-F-1	Load Transfer Unit (Type A-1) 9" R.C. Pavement	12-16-62
242-H	Load Transfer Unit (Type E)	8-3-62
242-I	Load Transfer Unit (Type F)	8-3-62
242-J	Load Transfer Unit (Type G)	8-3-62
250-F	Bar Mat Reinf. for 8" & 9" Conc. Pav't	8-3-62
712-B	Fences & Barways	5-7-62
712-C	Barricades, Slope Paving, Concrete Ramps, SERVICE BRIDGES	
242-K	Load Transfer Unit (Type A) (Alternate)	8-3-62
217-E	Standard Fittings for Three-Cable Guide Railing & Wire Rope	
	Railing - Three-Cable (Wood Posts)	5-7-62
242-M	Load Transfer Unit (Type D) (Alternate)	8-3-62
242-N	Load Transfer Unit (Type E) (Alternate)	8-3-62
242-O	Load Transfer Unit (Type G) (Alternate)	8-3-62
241-K	Paving Details - 24' Width Construction	5-17-62
242-G	Load Transfer Unit (Type D)	8-3-62
249-E	Fabric Reinf. for 8" & 9" Conc. Pav't	8-3-62

LIST OF DRAWINGS	
SHT. NO.	TITLE
1	TITLE SHEET
2	FEDERAL SECTION BREAKDOWN SHEET
3-9	INDEX PLANS & PROFILES
10-17	Detailed Estimates
18-31	Typical Sections & Miscellaneous Details
32-33	Control Survey Ties
34-129	Plans & Profiles
130-140	Structure Sheet - Stoddard Ave
141-151	Structure Sheets - Broadway
152-167	Structure Sheets - N.Y. N.H. & H Railroad
168-185	Structure Sheets - N.Y. N.H. & H Railroad
186-202	Structure Sheets - Washington Ave
203-215	Structure Sheets - Pool Rd.
216-225	Structure Sheets - Bassett Rd.
226-238	Structure Sheets - Pond Hill Rd.
239-256	Structure Sheets - S.B.W.N. Rdwy.
257-268	Structure Sheets - N.B.W.N. Rdwy.
269-281	Structure Sheets - Harrison Rd.
282-292	Structure Sheets - Woodhouse Ave
293-307	Structure Sheets - Wharton Brook Conn. Pond Hill Rd.
308-312	Structure Sheets - Box Culverts
313	Federal Aid Construction Identification Signs
314-812	Cross Sections
	TOTAL NUMBER OF SHEETS INCLUDING SHEET NO. 105A IS 813

100 60

M344 01

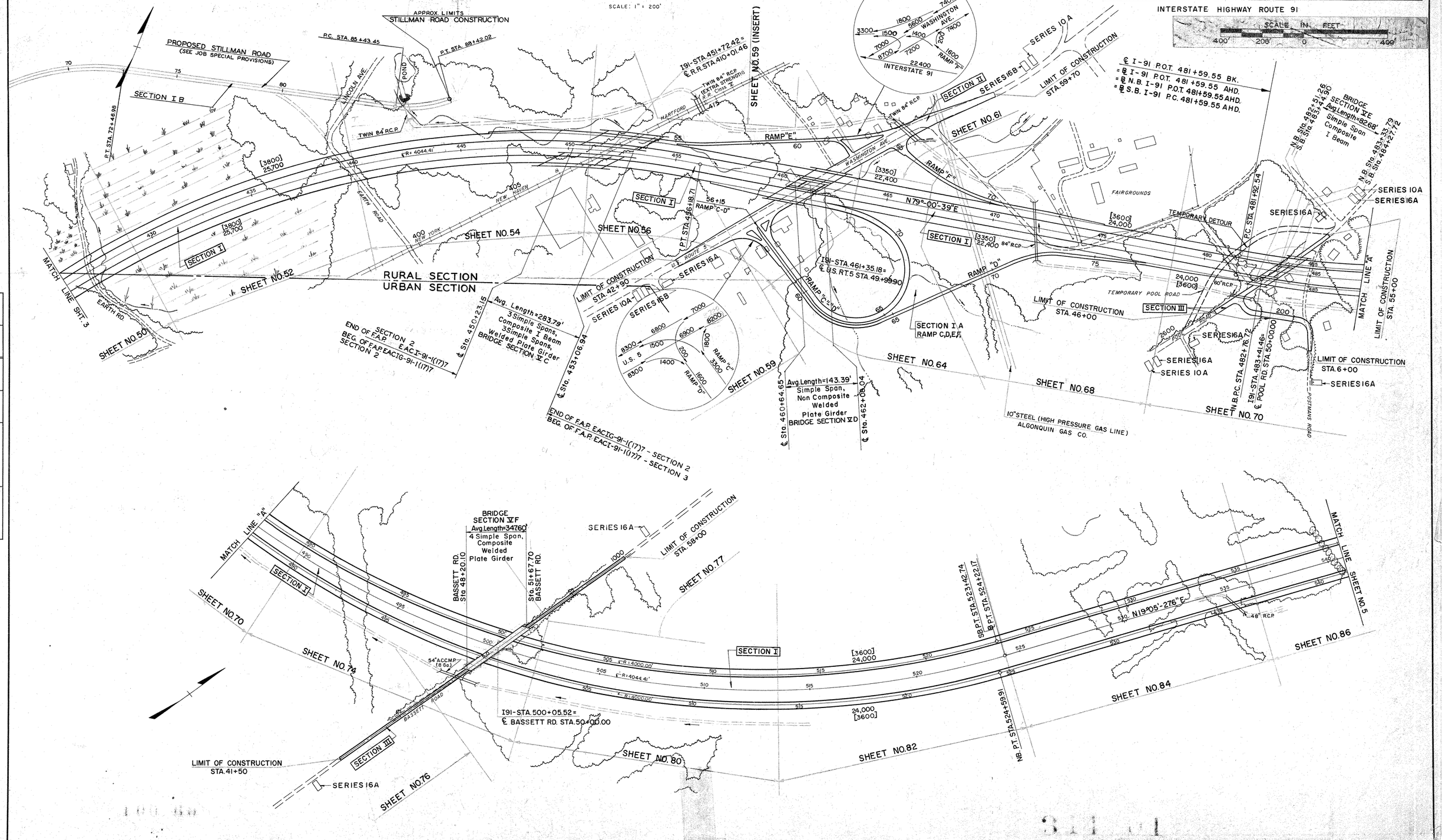
FORM NO. ENG. 11 ED 9-59

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN & WALLINGFORD	EACI-EACIG-91-1(17)7	100-60	1963	I-91	4	812

INDEX PLAN

SCALE: 1" = 200'

INTERSTATE HIGHWAY ROUTE 91



PLAN		BY	DATE	CHECKED BY	DATE
NOTE BOOK NO.	Surveyed				
	Plotted				
	Traced				
	Designed				
	New Const. Noted				
	Top. Field Chk. noted				

DIETZGEN 131 Arkwright Tracing Cloth 6735

100 60

M 344 01

FORM NO. ENG. 11 ED 9-59

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1(17)7	100-60	1963	I-91	74	812

INTERSTATE HIGHWAY ROUTE 91

MINIMUM WIDTH OF RIGHT OF WAY = 356'

SCALE IN FEET 40' 0 80'

CURVE DATA

NO.	Δ	D	R	T	L	P.C. / P.C.C. N	P.C. / P.C.C. E	P.I. N	P.I. E	P.T. / P.C.C. N	P.T. / P.C.C. E
3	59°-55'-11.4"	01°-25'-00.0"	4044.408	2331.269	4229.635	206,677.606	574,009.479	207,122.000	576,298.000	209,325.050	577,060.487
4	59°-55'-11.4"	01°-25'-56.6"	4000.000	2305.671	4183.193	206,716.965	573,968.234	207,156.480	576,231.627	209,335.340	576,985.742
5	59°-55'-11.4"	01°-25'-56.6"	4000.000	2305.671	4183.193	206,648.005	574,100.980	207,087.520	576,364.373	209,266.380	577,118.488

BITUMINOUS CONCRETE LIP CURBING
LT. SB STA. 485+20 – 494+30
LT. NB STA. 490+20 – 495+37
RT. BASSETT RD. STA. 41+50 – 48+25
LT. BASSETT RD. STA. 51+70 – 57+60
RT. BASSETT RD. STA. 52+00 – 58+42
LT. BASSETT RD. STA. 43+90 – 47+90

N 207,500

MATCH LINE – SHEET NO. 77

PROP. BASSETT RD. STA. 52+60

TAKING LINE UNLIMITED ACCESS

WIRE FENCE WITH METAL POSTS I-91 SB STA. 501+20 to 510+00 LT.

TAKING LINE NON ACCESS

RIGHT TO SLOPE REQUIRED

RIGHT TO EXCAVATE DITCH REQUIRED

E 575,500

BRIDGE SECTION "F"
Sta. 48+20.10 to Sta. 51+67.70
Length = 347.60
4 Simple Span Composite Welded Plate Girder
For Bridge Details See Sheets No. 216 to 225

RUSSELL H. ET. AL. ERSKINE

ELLSWORTH S. GENUNG ET. AL.

BORIS JOEL

HARRY B. NEAL

GRADE TO DRAIN

STA. 490+00 N.B.

MATCH LINE – SHEET NO. 70

Conc. Mon.

I.P.

Stake

Trees

Varies

Edge of Pavement

TAKING LINE NON ACCESS

APPROX. SLOPE LIMITS

BEGIN BIT. CONC. LIP CURBING

APPROX. SLOPE LIMITS

2' DITCH

4" LOAM

ENDWALL

SINGLE POSTS

Type "C" C.B.
INV. 60.3'

95' 18"-15" A.C.C.M.P. & 15" ACCMP ELBOW

3 CABLE GUIDE RAILING

END BIT. CONC. LIP CURBING

INV. 54.5'

TYPE "C" C.B.

71' 18"-15" R.C.P.

℄ & Line of Grade Application S.B.

SLOPE PAVED OUTLET

6" LOAM

℄ Bassett Rd. 50+76.56
= ℄ I-91 S.B. 501+27.54

℄ Bassett Rd. 50+00.00
= ℄ I-91 N.B. 500+05.52

℄ Bassett Rd. 49+08.85
= ℄ I-91 N.B. 499+78.70

530°-30'-00"

Metal Beam Type Rail (Type R-6)

ERNEST BOTTINO

MARION CASSIDENTO

SAMUEL W. CLINTON ET. AL.

HENRY W. CLINTON

2' PAVED DITCH

TYPE "C" D.I.
INV. 57.3'

153' 18"-24" A.C.C.M.P. (No.14 Ga.)

STA. C-16A

BEGIN BIT. CONC. LIP CURBING

3 CABLE GUIDE RAILING

END BIT. CONC. LIP CURBING

6' CHANNEL

APPROX. CHANNEL SLOPE LIMITS

LEOPOLD SZWMOWSKI ET. AL.

TOWN OF NORTH HAVEN

TOWN OF NORTH HAVEN

RUSSELL H. ERSKINE ET. AL.

BORIS JOEL

TAKING LINE NON ACCESS

WIRE FENCE WITH METAL POSTS

N 79°-00'-39.0" E

RIGHT TO EXCAVATE DITCH REQUIRED

RIGHT TO SLOPE REQUIRED

Right to Construct & Maintain Endwall Required

RIGHT TO INSTALL & MAINTAIN IS ACCMP REQUIRED

MATCH LINE – SHEET NO. 76 PROP. BASSETT RD. STA. 46+00

TAKING LINE UNLIMITED ACCESS

E 575,000

E 575,500

N 207,000

PROP. BASSETT ROAD

END BIT. CONC. LIP CURBING

WING TYPE ENDWALL

176'-54" A.C.C.M.P. (No.8 Ga.)

WING TYPE ENDWALL

RUDOLF C. KOLLANDA ET. AL.

TAKING LINE NON ACCESS

APPROX. SLOPE LIMITS

Earth

Field Fence

Fence

Cultivated

ROBERT W. YOUNG JR.

NOTE: ON BASSETT RD. TRANSITION SHOULDERS FROM 6' TO 4' IN 50 FT. EACH SIDE OF BRIDGE.

REVISIONS OF JULY 1967 SHOWN ON SHEET NO. (DATE OF TRANSPARENCY)

74A (SHEET NO. OF TRANSPARENCY) INCORPORATED ON THIS SHEET

JULY 1967 (DATE)

RIGHT TO SLOPE

SHEET NO. 80

STA. 502+50 N.B.

6" CHANNEL

APPROX. CHANNEL SLOPE LIMITS

1 STY. FR. HO.

1 STY. FR. BARN

1 STY. FR. SHED

Earth

Cherry

Maple

Oak

Twin Oak

Willow

Privet Hedge

Varies

PLAN
Surveyed
Plotted
Traced
Designed
NOTE BOOK
NO.
New Const. Noted
Top. Field Chk. noted
CHECKED BY
DATE

100 60

M344 01

74 74A

FORM NO. ENG. 12 ED 3-49

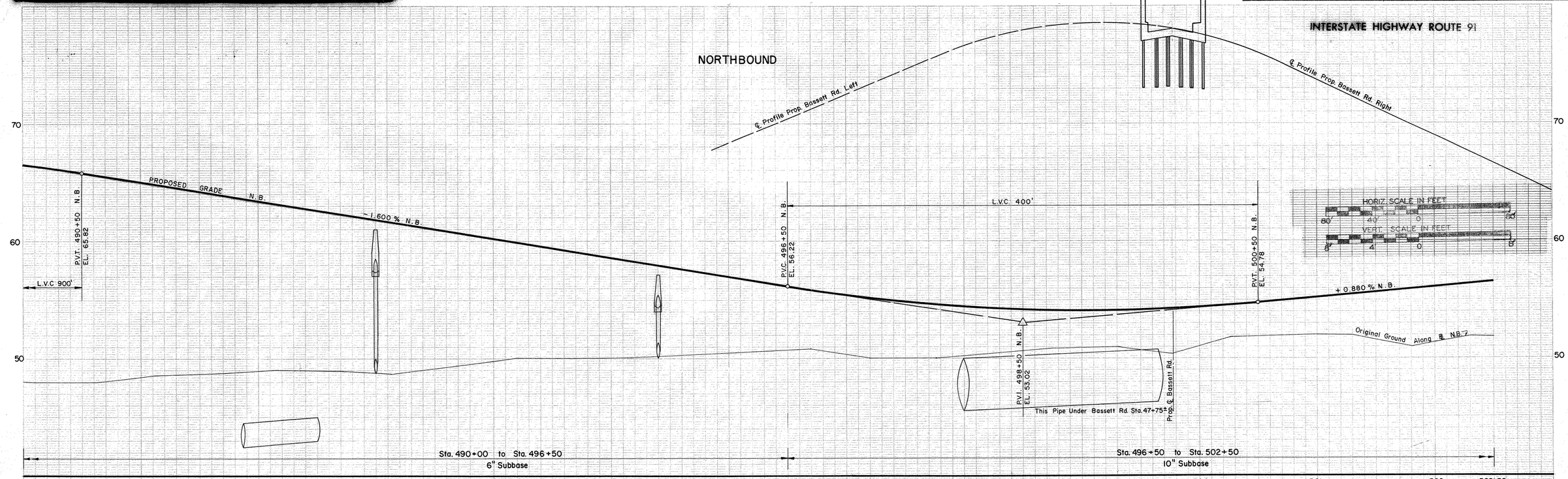
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	75	812

[redacted]

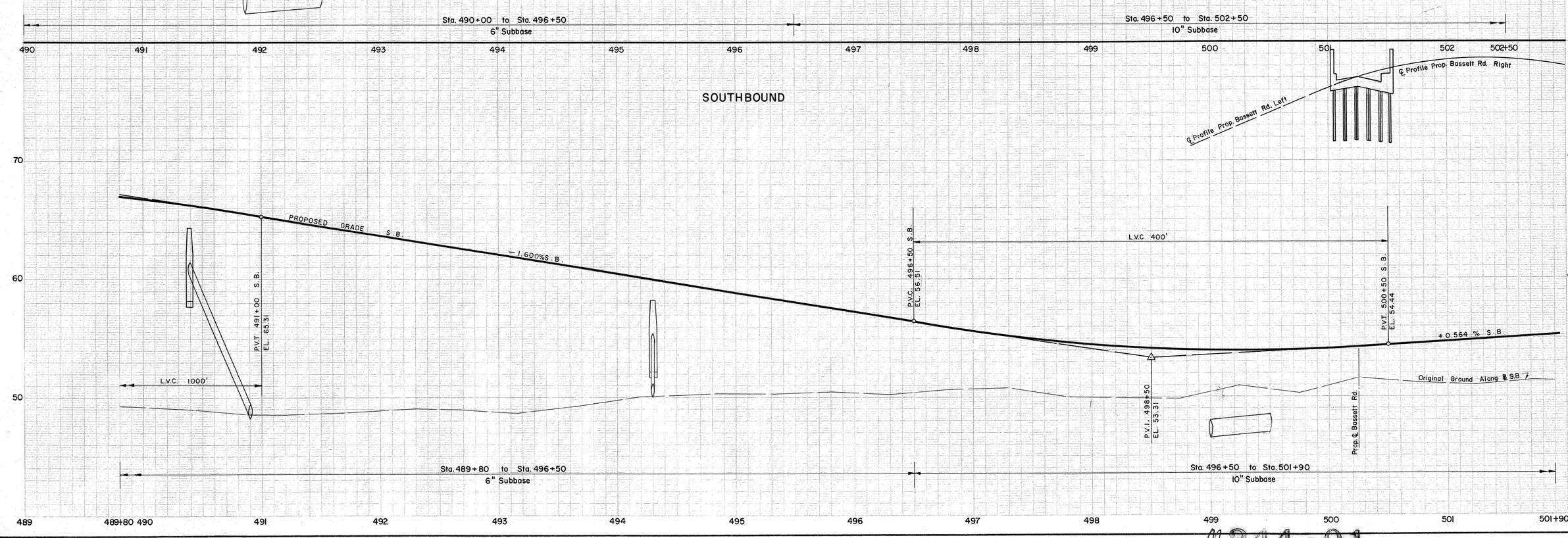
MAINLINE

INTERSTATE HIGHWAY ROUTE 91

NORTHBOUND



SOUTHBOUND



PROFILE		DATE	BY	DATE
	Surveyed			
	Plotted			
	Grades Plotted			
NOTE BOOK	Traced			
	New Const. Noted			
NO.	Designed		CHECKED BY	

Eugene Dietzgen Co., Inc., New York, N. Y. No. 191 Imperial Tracing Cloth

100 60

M344 01

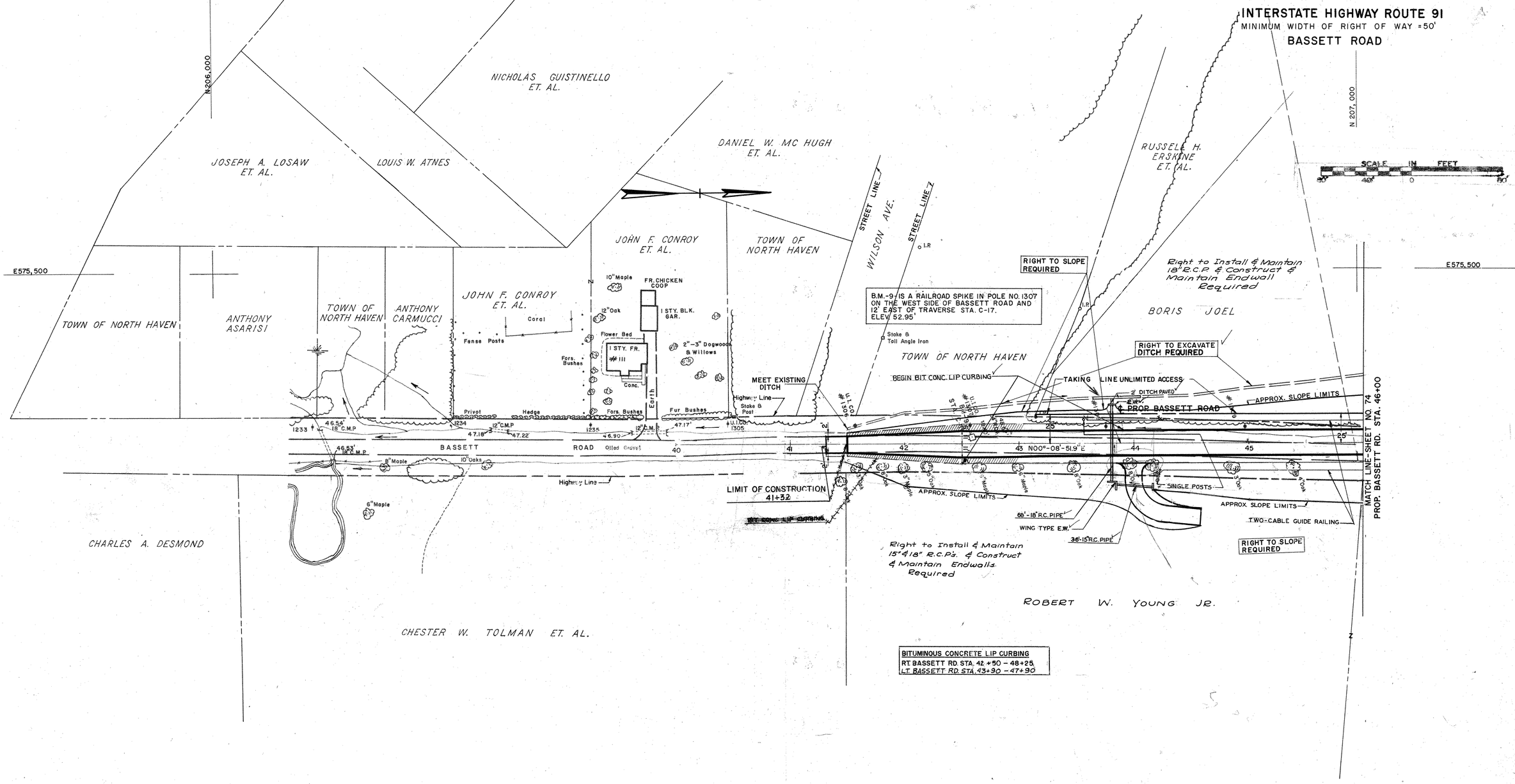
FORM NO. ENG. 11 ED 9-59

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1(17)7	100-60	1963	I-91	76	812

INTERSTATE HIGHWAY ROUTE 91

MINIMUM WIDTH OF RIGHT OF WAY = 50'

BASSETT ROAD



PLAN		BY	DATE	CHECKED BY	DATE
NOTE BOOK NO.	Surveyed				
	Plotted				
	Traced				
	Designed				
	New Const. Noted				
	Top. Field Chk. noted				

100 60

100 60

344 01

FORM NO. ENG. 1: ED 9 59

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1(17)7	100-60	1963	I-91	77	812

INTERSTATE HIGHWAY ROUTE 91

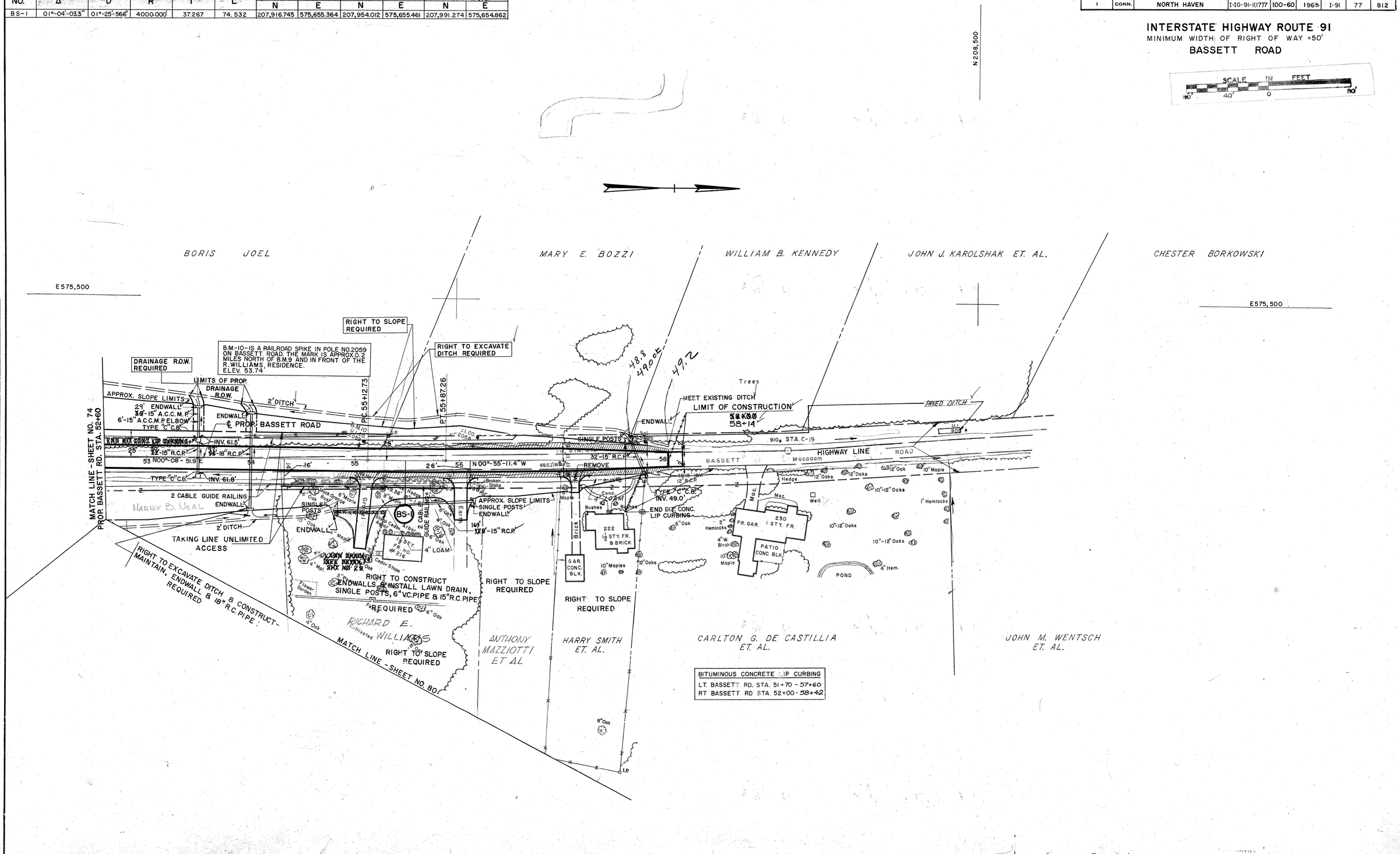
MINIMUM WIDTH OF RIGHT OF WAY =50'

BASSETT ROAD

SCALE IN FEET

80' 40' 0 80'

CURVE DATA											
NO.	Δ	D	R	T	L	P.C. / P.C.C.		P.I.		P.T. / P.C.C.	
						N	E	N	E	N	E
BS-1	01°-04'-03.3"	01°-25'-56.6"	4000.000'	37.267	74.532	207,916.745	575,655.364	207,954.012	575,655.461	207,991.274	575,654.862



BITUMINOUS CONCRETE LIP CURBING
LT. BASSETT RD. STA. 51+70 - 57+60
RT BASSETT RD STA. 52+00 - 58+42

PLAN		BY	DATE	CHECKED BY	DATE
NOTE BOOK NO.	Surveyed				
	Plotted				
	Traced				
	Designed				
	New Const. Noted				
	Top. Field Chk. noted				

100 60

M 344 01

77

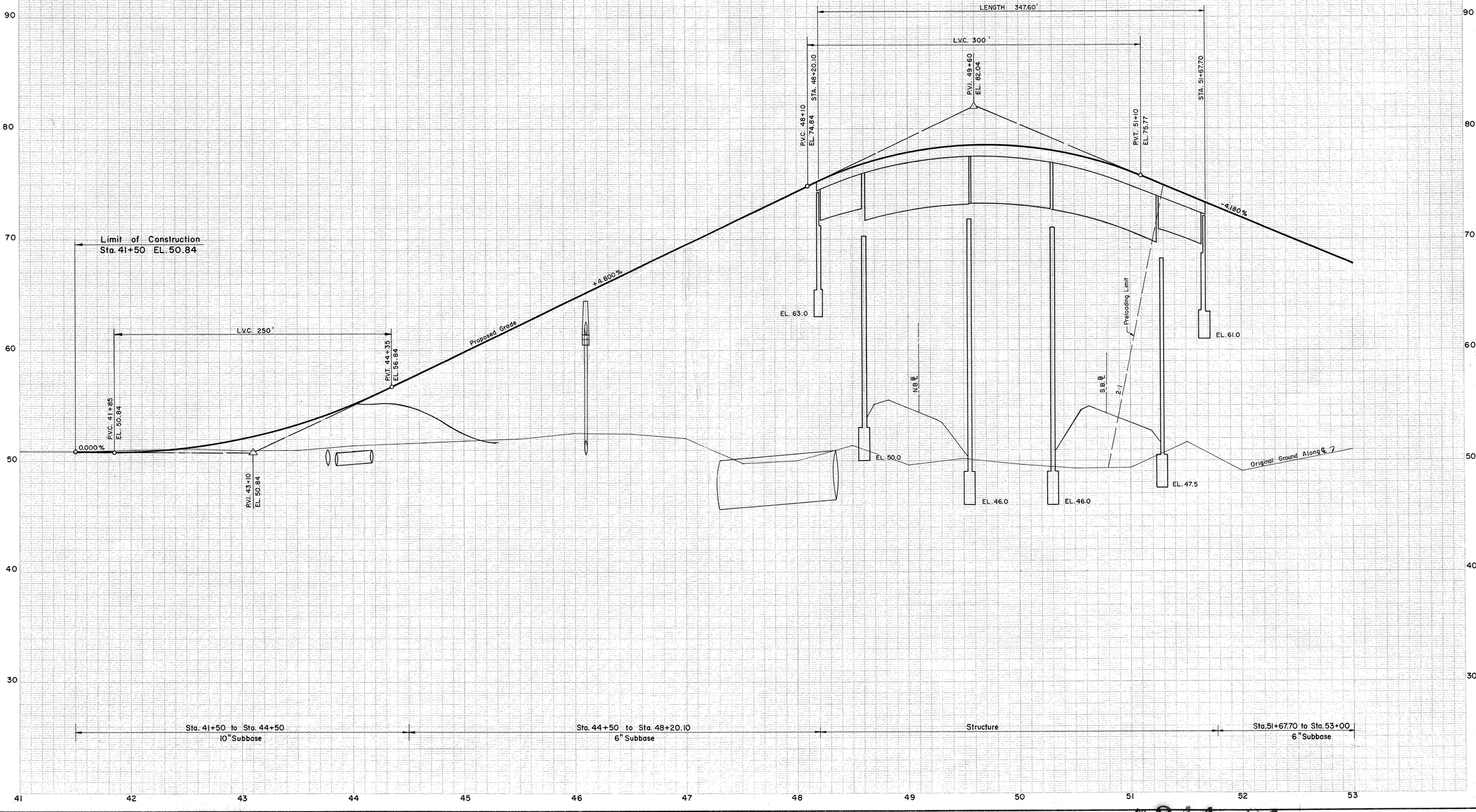
FORM NO. ENG. 12 ED 3-49

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	78	812

[redacted]

BASSETT ROAD

INTERSTATE HIGHWAY ROUTE 91



PROFILE
NOTE BOOK
NO.
Surveyed
Plotted
Grades Plotted
Traced
New Const. Noted
Designed

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100 60

344 01

78

FORM NO. ENG. 12 ED 10-59

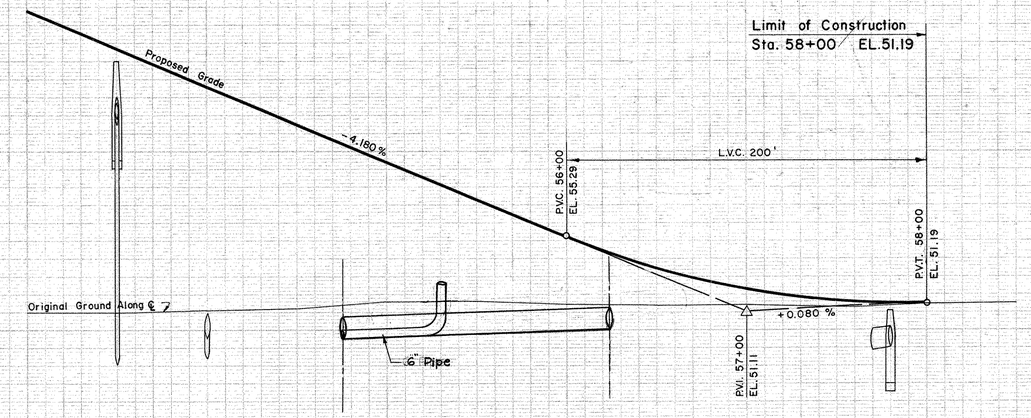
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1965	I-91	79	812

BASSETT ROAD

INTERSTATE HIGHWAY ROUTE 91

HORIZ. SCALE IN FEET
50 40 30 20 10 0

VERT. SCALE IN FEET
8 4 0



Sta. 53+00 to Sta. 55+50
6" Subbase

Sta. 55+50 to Sta. 58+00
10" Subbase

90 80 70 60 50 40 30

53 54 55 56 57 58 59

PROFILE
NOTE BOOK NO.
Surveyed
Plotted
Traced
Designed
New Const. Noted
Top. Field Chk. noted
BY DATE CHECKED BY DATE

100 60

DIETZGEN 131 Arkwright Tracing Cloth 6762

100 60

M 344 01

79

FORM NO. ENG. 11 ED 9-59

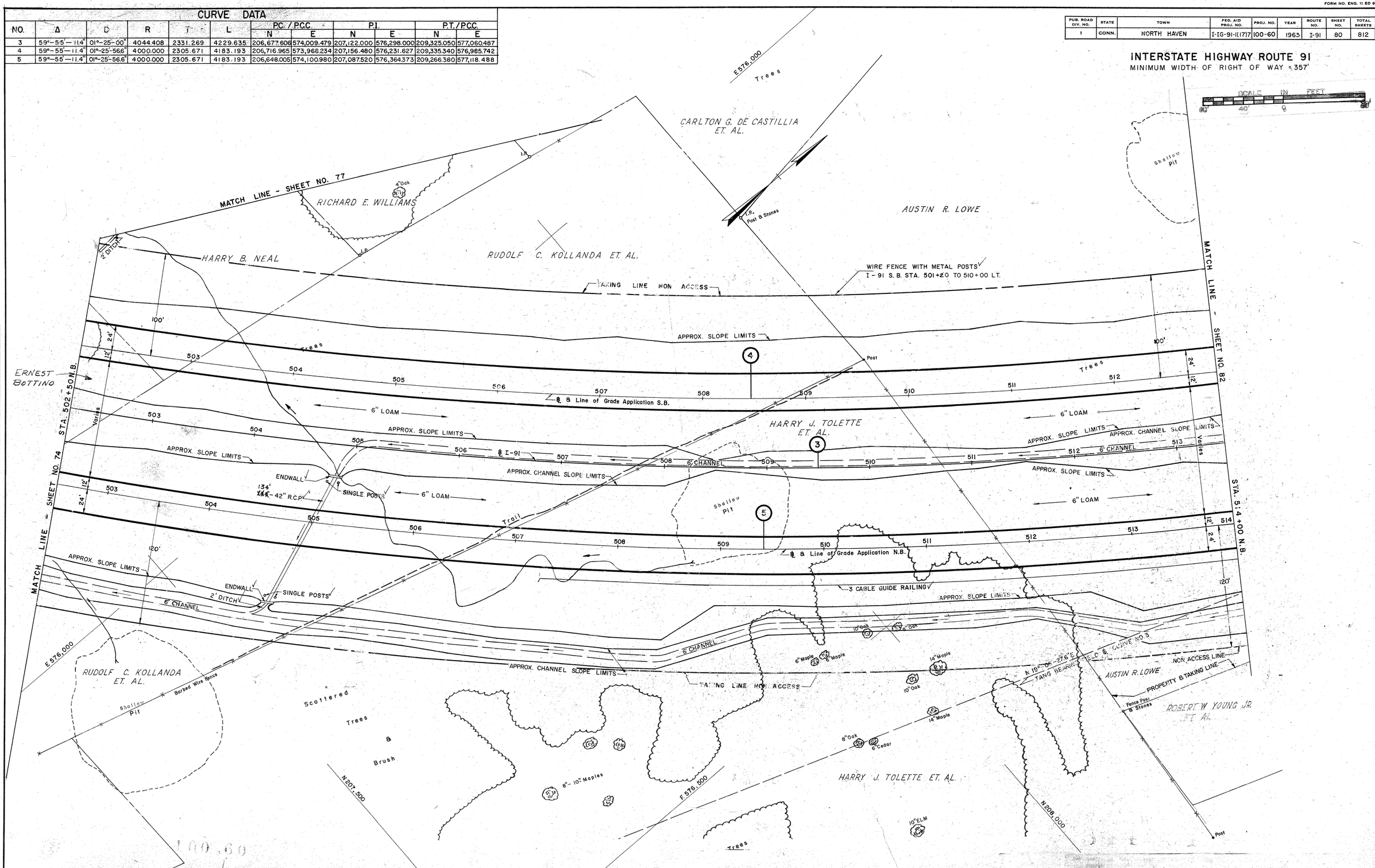
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1(17)7	100-60	1965	I-91	80	812

INTERSTATE HIGHWAY ROUTE 91

MINIMUM WIDTH OF RIGHT OF WAY = 357'

CURVE DATA

NO.	Δ	D	R	T	L	P.C. / P.C.C. N	P.C. / P.C.C. E	P.I. N	P.I. E	P.T. / P.C.C. N	P.T. / P.C.C. E
3	59°-55'-11.4"	01°-25-00"	4044.408	2331.269	4229.635	206,677.606	574,009.479	207,122.000	576,298.000	209,325.050	577,060.487
4	59°-55'-11.4"	01°-25-56.6"	4000.000	2305.671	4183.193	206,716.965	573,968.234	207,156.480	576,231.627	209,335.340	576,985.742
5	59°-55'-11.4"	01°-25-56.6"	4000.000	2305.671	4183.193	206,648.005	574,100.980	207,087.520	576,364.373	209,266.380	577,118.488



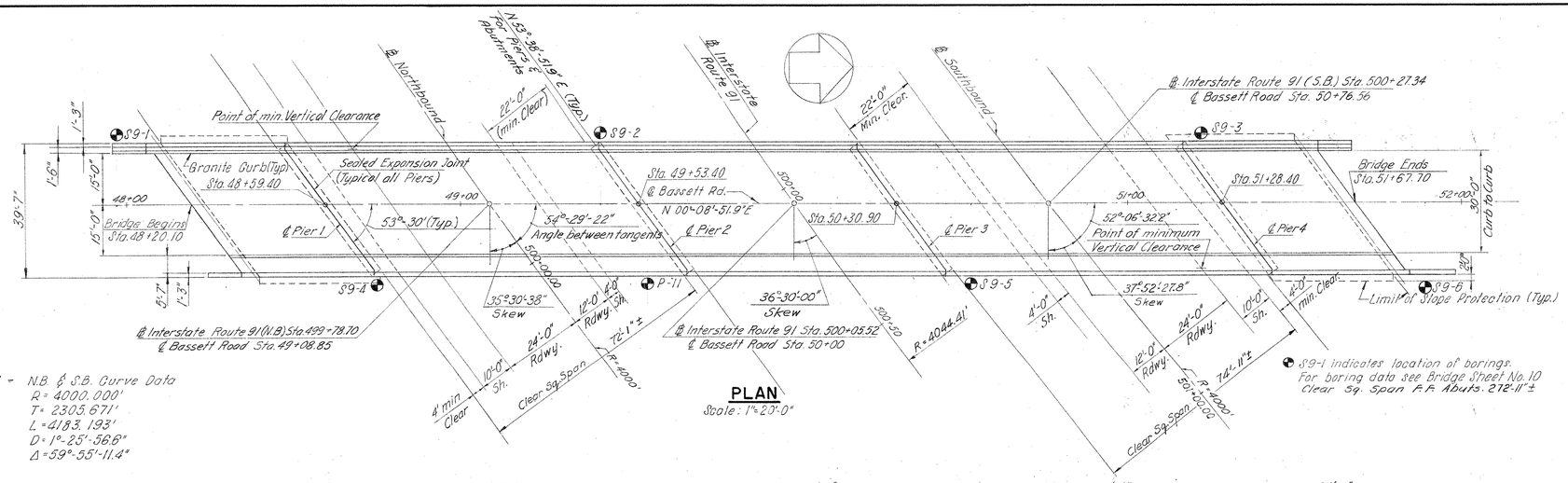
PLAN		BY	DATE	CHECKED BY	DATE
NOTE BOOK NO.	Surveyed				
	Plotted				
	Traced				
	Designed				
	New Const. Noted				
	Top. Field Chk. noted				

100 60

M 344 01

80

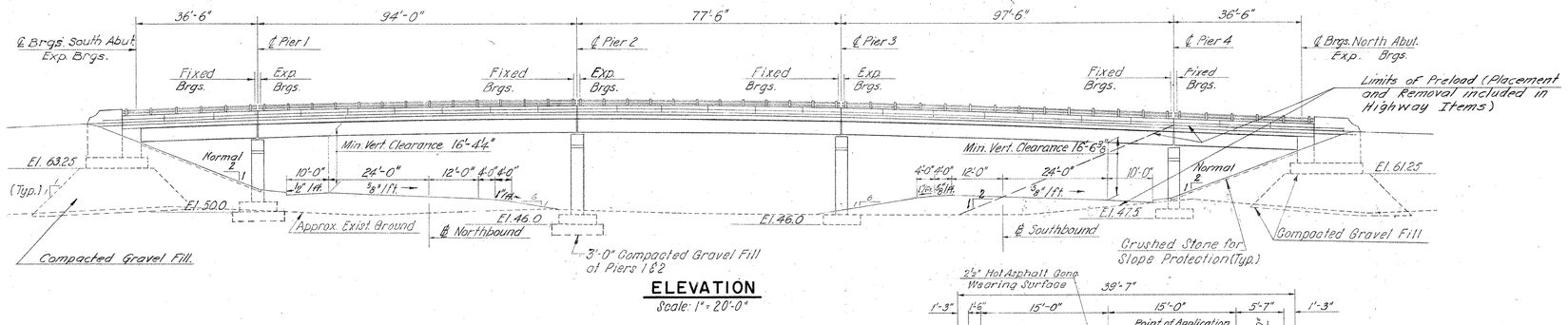
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	216	812



PLAN

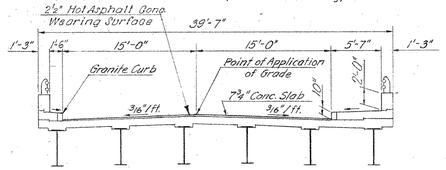
Scale: 1"=20'-0"

I-91 - N.B. & S.B. Curve Data
R = 4000.000'
T = 2305.671'
L = 4183.193'
D = 1°-25'-56.6"
Δ = 59°-55'-11.4"



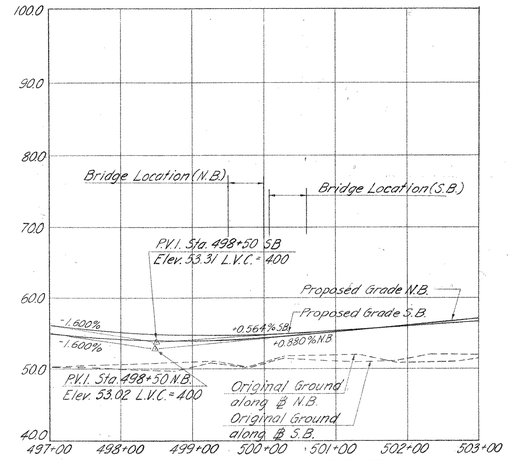
ELEVATION

Scale: 1"=20'-0"



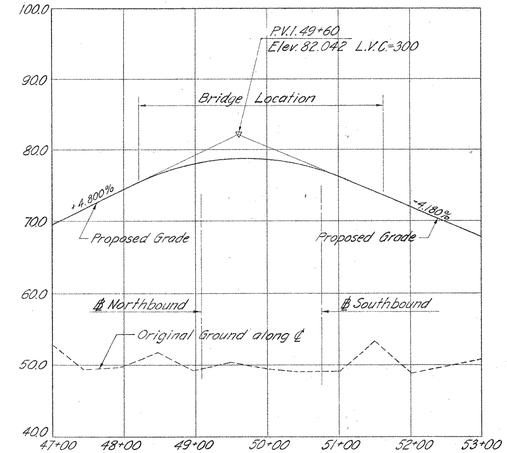
TYPICAL SECTION

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



PROFILE INTERSTATE ROUTE 91

Scales: Horizontal 1"=100'
Verfical 1"=10'



PROFILE BASSETT ROAD

Scales: Horizontal 1"=100'
Vertical 1"=10'

QUANTITIES

ITEM	UNIT	QUANTITY
Structure Excavation-Earth (Complete)	C.Y.	900
Class "A" Concrete	C.Y.	610
Class "C" Concrete	C.Y.	550
1/2" Pref. Exp. Joint Filler for Bridge	S.F.	110
1" Pref. Exp. Joint Filler for Bridge	S.F.	10
1½" Pref. Exp. Joint Filler for Bridge	S.F.	20
Deformed Steel Bars	Lb.	219,000
Structural Steel	Lb.	540,000
Shear Connectors	L.F.	1,620
Membrane Water Proofing for Conc. Deck Slabs	S.Y.	1,160
Dampproofing	S.Y.	130
Neoprene Plate for Bridge Exp. Joint	L.F.	200
Metal Bridge Rail	L.F.	668
Pervious Structure Backfill	C.Y.	200
Compacted Gravel Fill	C.Y.	1,840
Hot Asphalt Concrete Wearing Surface	Ton	160
6"x12" Granite Stone Curbing for Bridges	L.F.	724
Crushed Stone for Slope Protection	Ton	180
Soil Loading Test	EA	1
Structure Excavation Rock (Complete)	C.Y.	20

CONCRETE DISTRIBUTION

	Class "A"	Class "C"
Superstructure	C.Y. -	C.Y. 550
Substructure	C.Y. 315	C.Y. -
Footings	C.Y. 295	C.Y. -
Total	C.Y. 610	C.Y. 550

GENERAL NOTES

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

DESIGN SPECIFICATIONS: Standard Specifications for Highway Bridges (A.A.S.H.O. 1961) except as modified and as supplemented by the Connecticut State Highway Department Bridge Manual July 1961.

LIVE LOAD: H20-S16-44.

FUTURE PAVING ALLOWANCE: NONE

COMPOSITE CONSTRUCTION: No temporary intermediate supports shall be used during the pouring and setting of the concrete deck slab. Temporary supports may be used for structural steel erection only. Live and superimposed dead loads shall be permitted 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.

CLASS "C" CONCRETE: Class "C" Concrete shall be used for bridge decks including safety walk, sidewalk and parapets. See Special Provisions.

STRUCTURAL STEEL: See Bridge Sheet No. 6 & 8 for A.S.T.M. Designations.

REINFORCING STEEL: See Special Provision for DEFORMED STEEL BARS.

WELDING & WELD INSPECTION: See Special Provisions for STRUCTURAL STEEL.

PAINTING: See Special Provisions for STRUCTURAL STEEL and METAL BRIDGE RAIL.

JOINT SEAL: See Special Provisions.

FELT: The cost of furnishing and placing 15# felt is included in the item for CLASS "A" CONCRETE.

PARAFFIN: The cost of furnishing and applying paraffin is included in the item for applicable class of concrete.

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

FOUNDATION PRESSURES: The various Group Loadings noted on the substructure plan sheets refer to the Group Loads as given in subsection 1.4.1. of A.A.S.O. Standard Specifications for Highway Bridges.

SEQUENCE OF OPERATIONS: See Special Provisions and Plans for Construction Requirements at this Site.

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
Radiographic	in.	0
Magnetic Particle	I.F.	0

INDEX TO SHEETS

NO.	TITLE
1	GENERAL PLAN
2	SOUTH ABUTMENT
3	NORTH ABUTMENT
4	PIERS
5	FRAMING PLAN
6	STEEL DETAILS
7	DECK
8	MISCELLANEOUS DETAILS
9	METAL BRIDGE RAIL
10	BORING DATA

THE INFORMATION ON THESE SHEETS IS BASED ON THE LIMITED INVESTIGATIONS MADE BY THE STATE FOR THE SOLE PURPOSE OF ITS ESTIMATE OF QUANTITIES AND IS NOT TO BE CONSIDERED AS REPRESENTATIVE OF ACTUAL CONDITIONS NOR OF THE WORK WHICH WILL BE REQUIRED.

REVISIONS		
NO.	DATE	DESCRIPTION

F.A.P. I-IG-91-1(17)7

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
GENERAL PLAN

DESIGNED BY GOODKIND & O'DEA
SCALES As Noted
MADE BY T.W.H. DATE 2-1-62
CHECKED BY I.V. DATE 4-1-62
APPROVED Arnold Goodkind DATE 6-5-62
PROJECT NO. 100-60
BRIDGE SHEET NO. 1 OF 10

D & W BLUEPRINT CO.

100-60

M-344-01

216

#9

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
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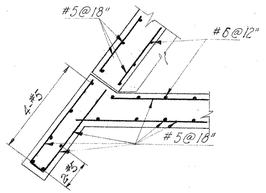
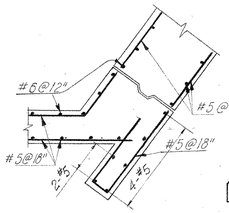
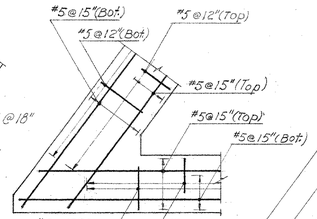


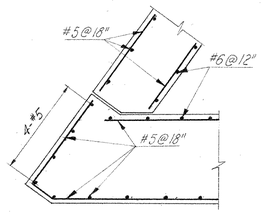
SECTION F-F
Scale: $\frac{3}{8}$"=1'-0"



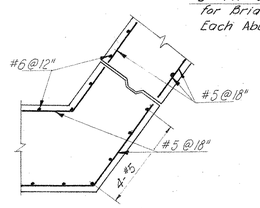
SECTION D-D
Scale: $\frac{3}{8}$"=1'-0"



SECTION K-K
Scale: $\frac{1}{8}$"=1'-0"

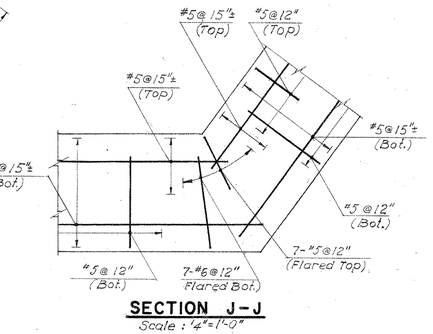


SECTION G-G
Scale: $\frac{3}{8}$"=1'-0"



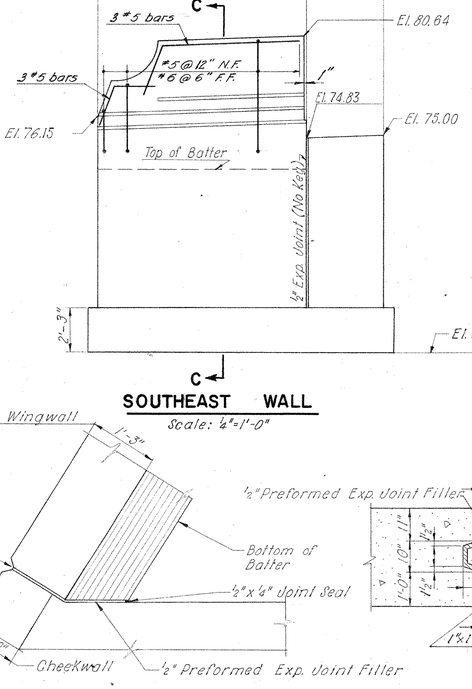
SECTION E-E
Scale: $\frac{3}{8}$"=1'-0"

PLAN -SOUTH ABUTMENT
Scale: $\frac{1}{4}$"=1'-0"

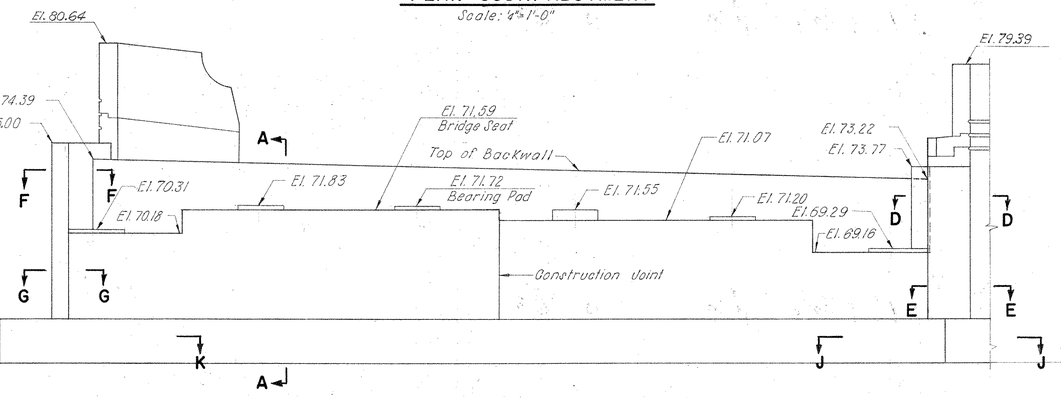


SECTION J-J
Scale: 1'4"=1'-0"

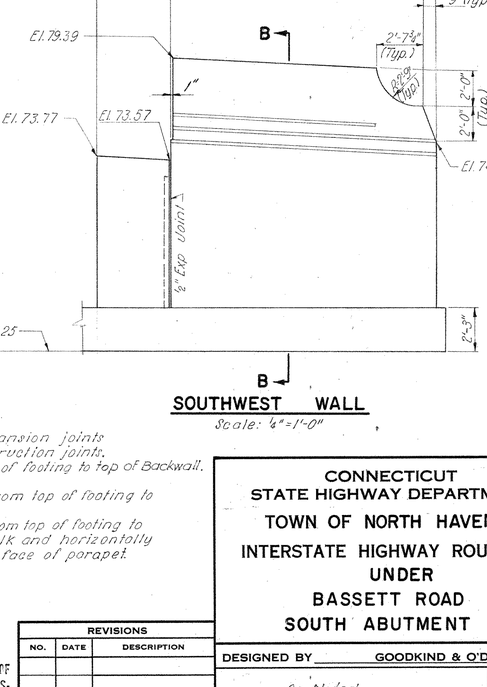
Notes:
1. For sections A-A, B-B and C-C see bridge sheet No.3
2. Bearing Pad Elevations shown are at bottom of Masonry Plate.
3. Top of pylon and cheekwall to follow grade.



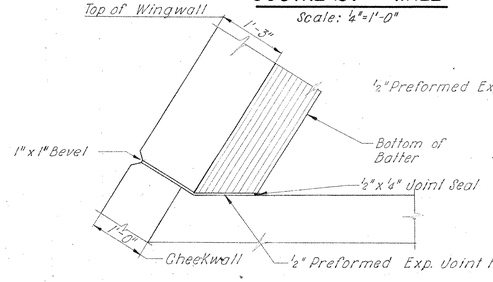
SOUTHEAST WALL
Scale: $\frac{1}{4}$"=1'-0"



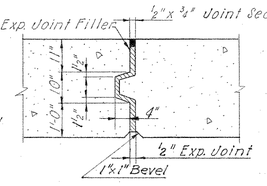
ELEVATION
Scale: $\frac{1}{4}$"=1'-0"



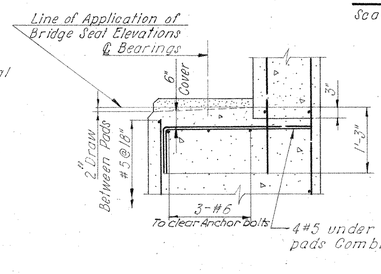
SOUTHWEST WALL
Scale: $\frac{1}{4}$"=1'-0"



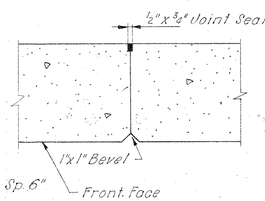
TYPICAL NON KEYED EXP. JOINT
Scale: $\frac{3}{4}$"=1'-0"



TYPICAL KEYED EXP. JOINT
Scale: ½"=1'-0"



PAD DETAIL
Scale: $\frac{3}{4}$"=1'-0"



TYPICAL CONSTRUCTION JOINT
Scale: ½"=1'-0"

Notes:
1. No reinforcement shall pass through expansion joints.
2. Reinforcement shall pass through construction joints.
3. Key in expansion joints to extend from top of footing to top of Backwall. See abutment plans.
4. Joint Seal: Abutment joint seal to extend from top of footing to top of backwall.
   Wingwalls joint seal to extend from top of footing to top of curb or sidewalk and horizontally along joint to outside face of parapet.

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.

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
SOUTH ABUTMENT

DESIGNED BY GOODKIND & O'DEA
SCALES As Noted
MADE BY D.O. DATE 2-1-62
CHECKED BY L.V. DATE 4-1-62
APPROVED Architect DATE 11/14/62
PROJECT NO. 100-60
BRIDGE SHEET NO. 2 OF 10

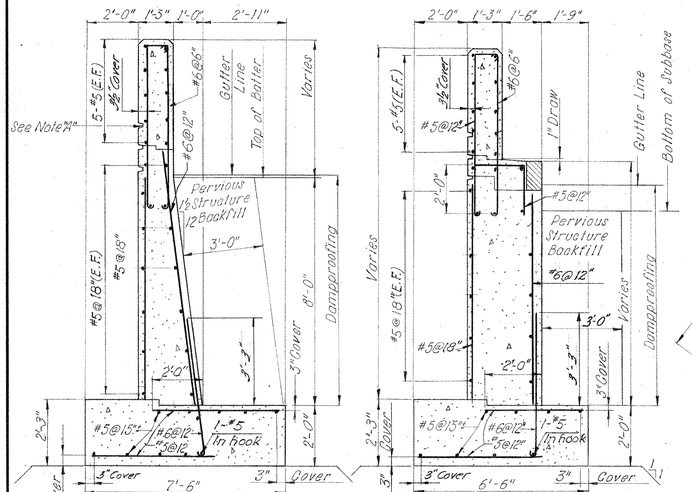
D & W BLUEPRINT CO.

100 60

M 344 01

217. #9

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	218	812



Max. Foundation pressure at toe=1.47 tons/Sq.Ft.
Min. Foundation pressure at heel=0.19 tons/Sq.Ft.

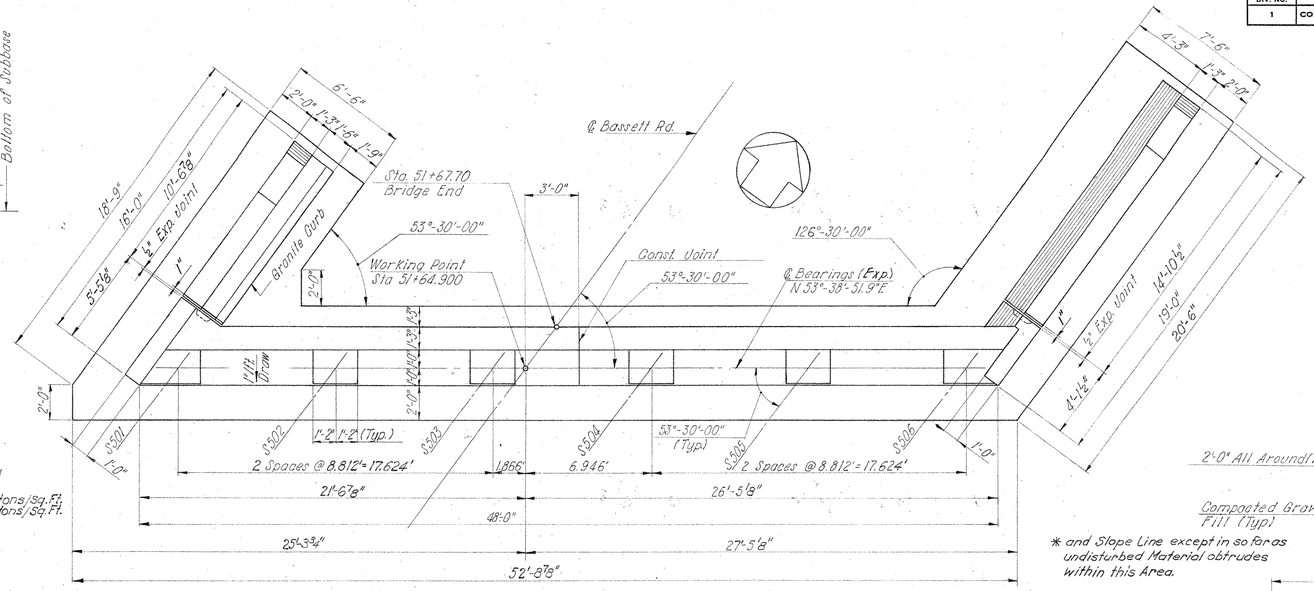
SECTION C-C

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

Max. Foundation pressure at toe=1.14 tons/Sq.Ft.
Min. Foundation pressure at heel=0.22 tons/Sq.Ft.

SECTION B-B

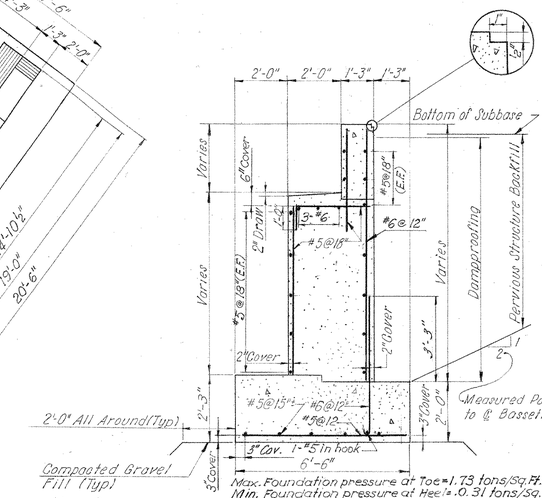
Scale: 3/8" = 1'-0"



PLAN NORTH ABUTMENT

Scale: 1" = 1'-0"

* and Slope Line except in so far as undisturbed Material obtrudes within this Area.



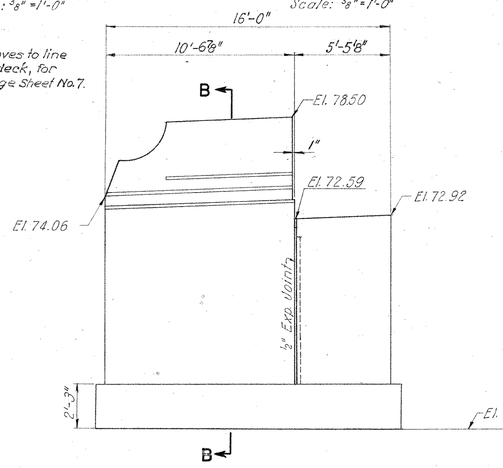
Max. Foundation pressure at Toe=1.73 tons/Sq.Ft.
Min. Foundation pressure at Heel=0.31 tons/Sq.Ft.

SECTION A-A

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

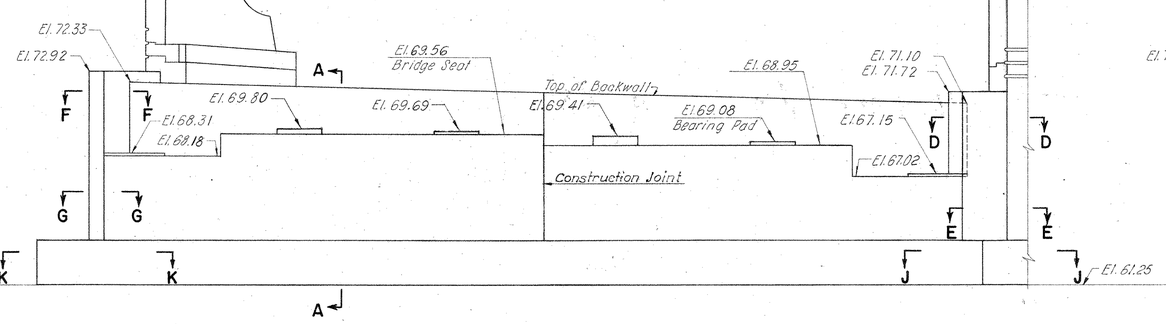
Note "A"

Rustication grooves to line up with bridge deck, for Details see Bridge Sheet No.7.



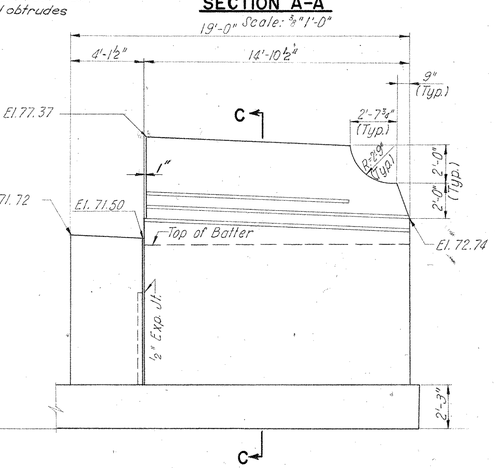
NORTHWEST WALL

Scale: ½" = 1'-0"



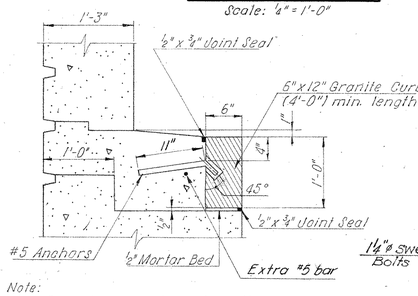
ELEVATION

Scale: ½" = 1'-0"



NORTHEAST WALL

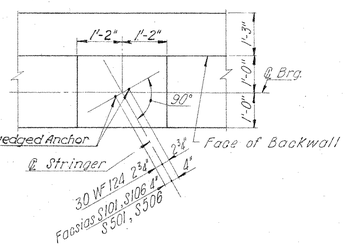
Scale: ½" = 1'-0"



Note:
Min. 2 anchors each curb section, 3'-0" max. spacing. ½" mortar joint between curb sections.

GRANITE CURB DETAIL

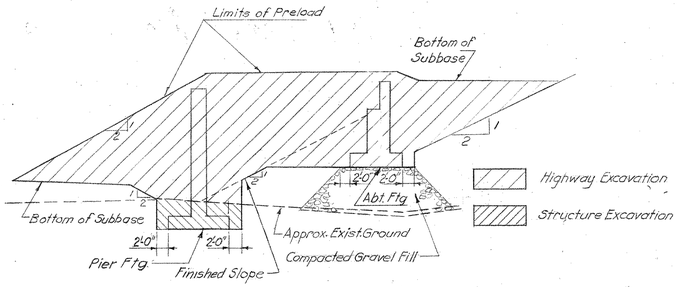
Scale: 1" = 1'-0"



PAD DETAIL

Scale: ½" = 1'-0"

Notes:
The foundation pressure shown at Sections A-A, B-B and C-C are:
1. Produced by Group I loadings,
2. The Group I loadings produce the maximum Design Foundation Pressure and control the design.



EXCAVATION & PAYMENT LIMITS

No Scale

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REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
NORTH ABUTMENT

DESIGNED BY GOODKIND & O'DEA

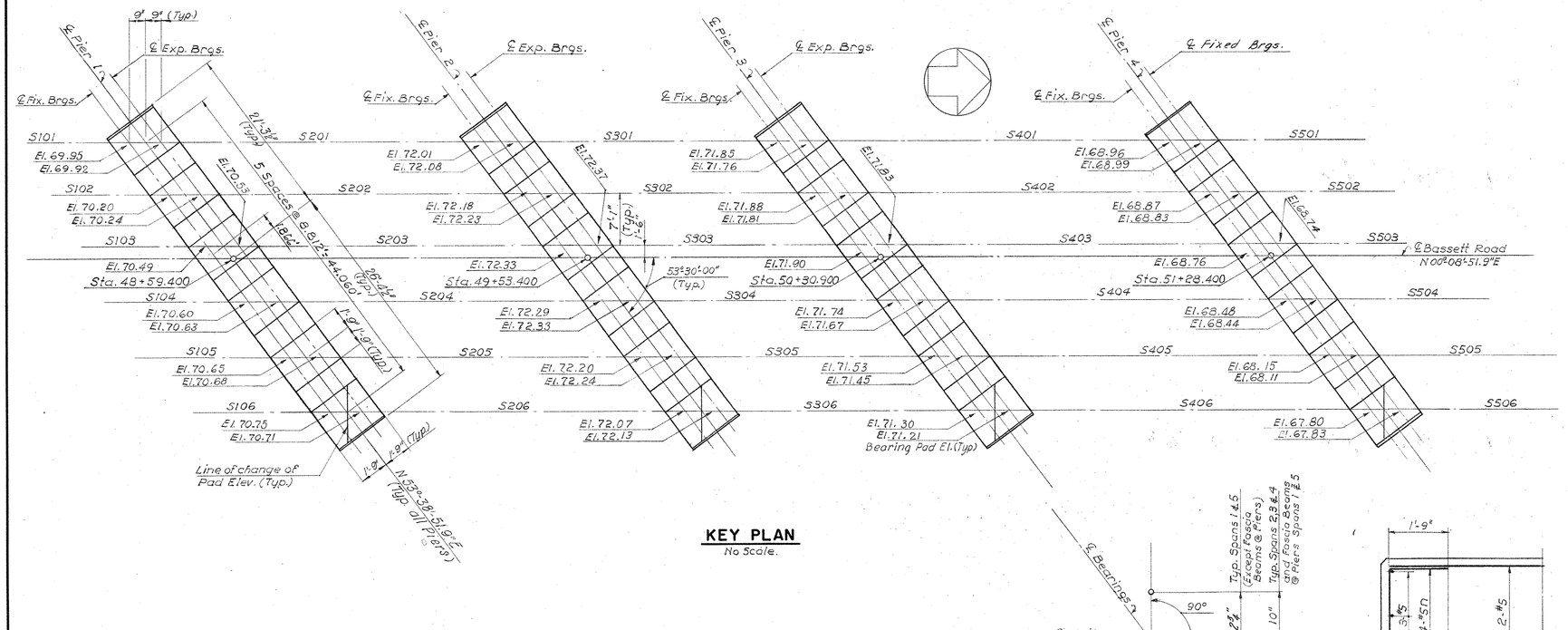
SCALES As Noted — PROJECT NO. 100-60
MADE BY D.C. — DATE 2-1-62
CHECKED BY J.V. Hall — DATE 4-1-62 — BRIDGE SHEET NO. 3 OF 10
APPROVED Hutchinson — DATE 11/1/62

M 844 01

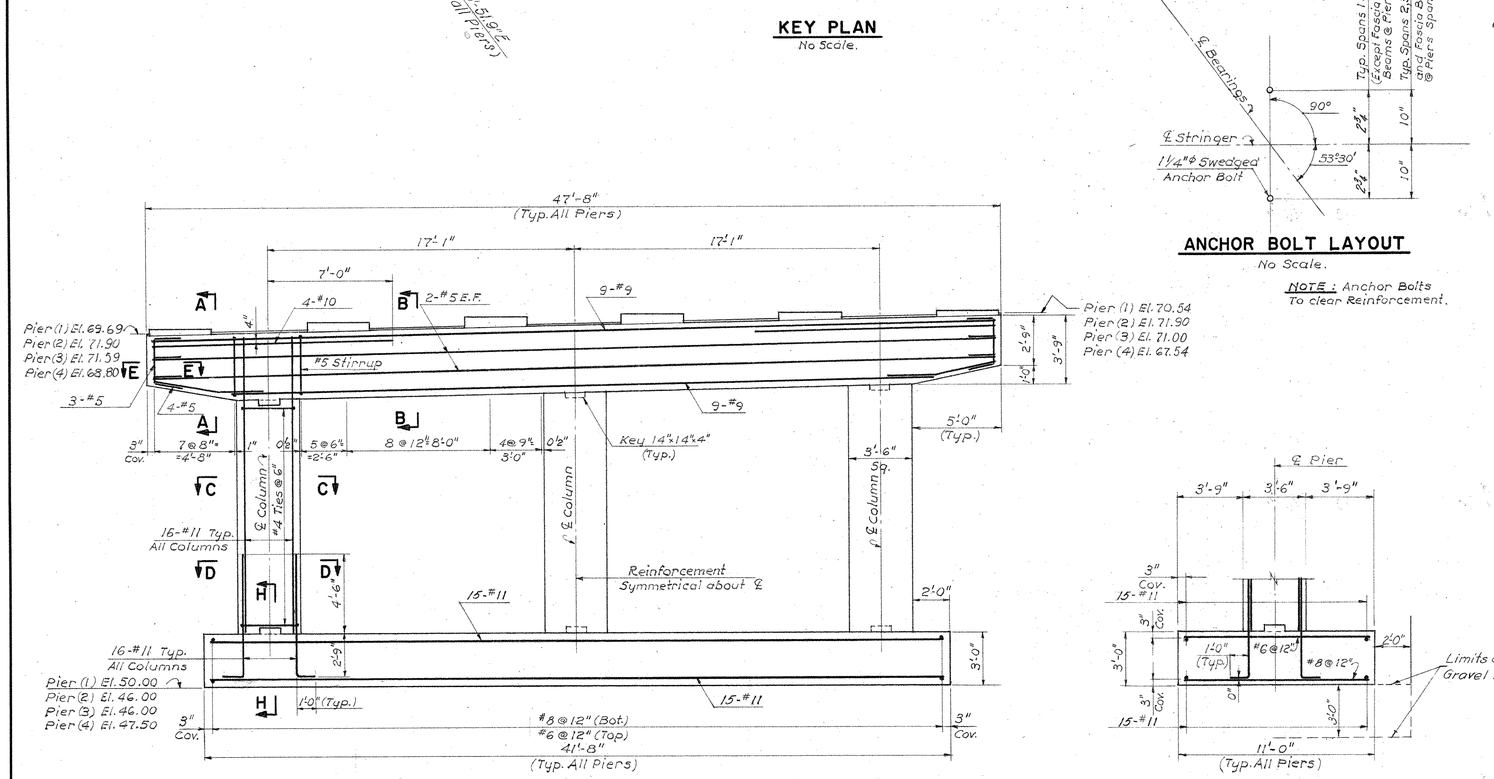
218

D & W BLUEPRINT CO.

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	219	812



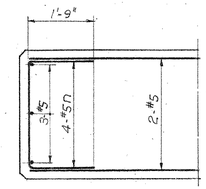
KEY PLAN
No Scale.



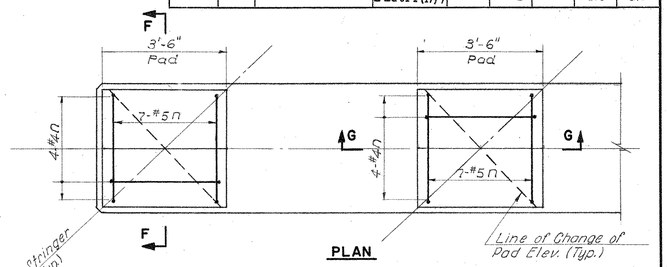
ELEVATION
Scale: 1/4"=1'-0"

ANCHOR BOLT LAYOUT
No Scale.

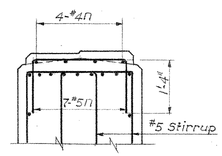
NOTE: Anchor Bolts To clear Reinforcement.



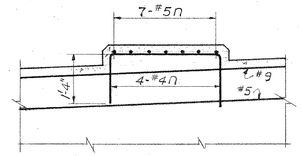
SECTION E-E
Scale: 1/2"=1'-0"



PLAN

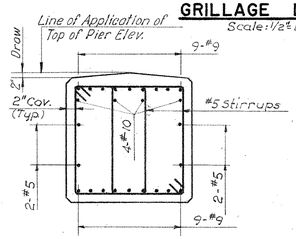


SECTION F-F

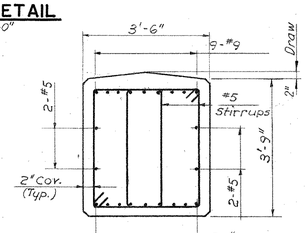


SECTION G-G

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



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



SECTION B-B
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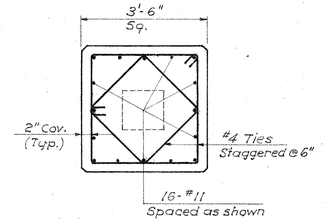
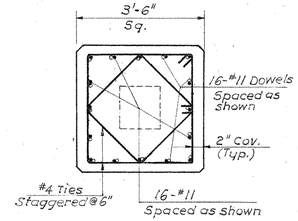
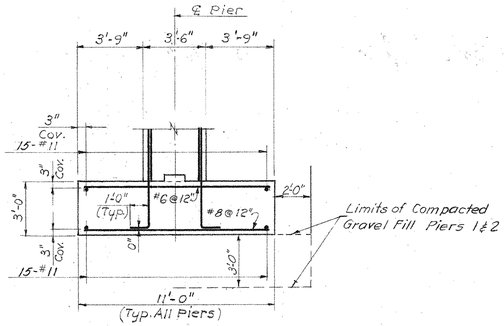


SECTION C-C
Scale: 1/2"=1'-0"



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



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

1. Foundation Pressures: +1.6 t.s.f. (max.) under Group I Loadings.
2. Maximum Foundation Pressures: 2.3 t.s.f. and 0.3 t.s.f. under Group III Loadings
3. Group III Loadings control the design of the Pier Foundations.

Notes:
1. Bearing Pad Elevations shown in Key Plan are elevations of bottom of Masonry Plate.
2. For anchor bolt details see Bridge Sheet No. 8

THE INFORMATION ON THESE SHEETS IS BASED ON THE LIMITED INVESTIGATIONS MADE BY THE STATE FOR THE SOLE PURPOSE OF ITS ESTIMATE OF QUANTITIES AND IS NOT TO BE CONSIDERED AS REPRESENTATIVE OF ACTUAL CONDITIONS NOR OF THE WORK WHICH WILL BE REQUIRED.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
PIERS

DESIGNED BY GOODKIND & O'DEA
SCALES As Noted
MADE BY D.S. DATE 2-1-62
CHECKED BY J.V. P.E., DATE 4-1-62
APPROVED Arielkeust DATE 11/9/62
PROJECT NO. 100-60
BRIDGE SHEET NO. 4 OF 10

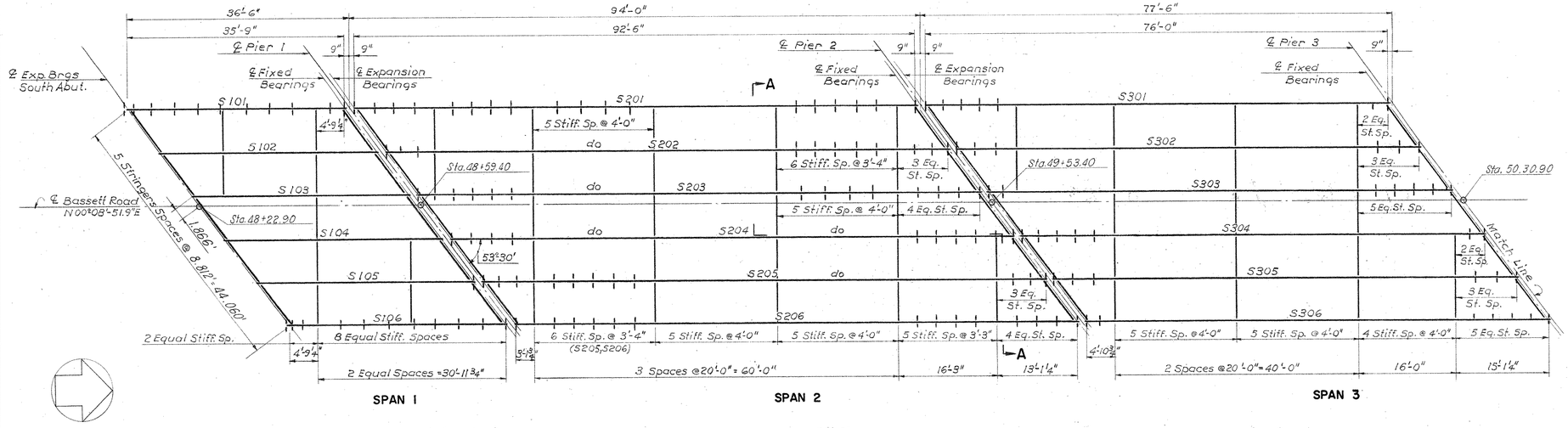
D & W BLUEPRINT CO.

100-60

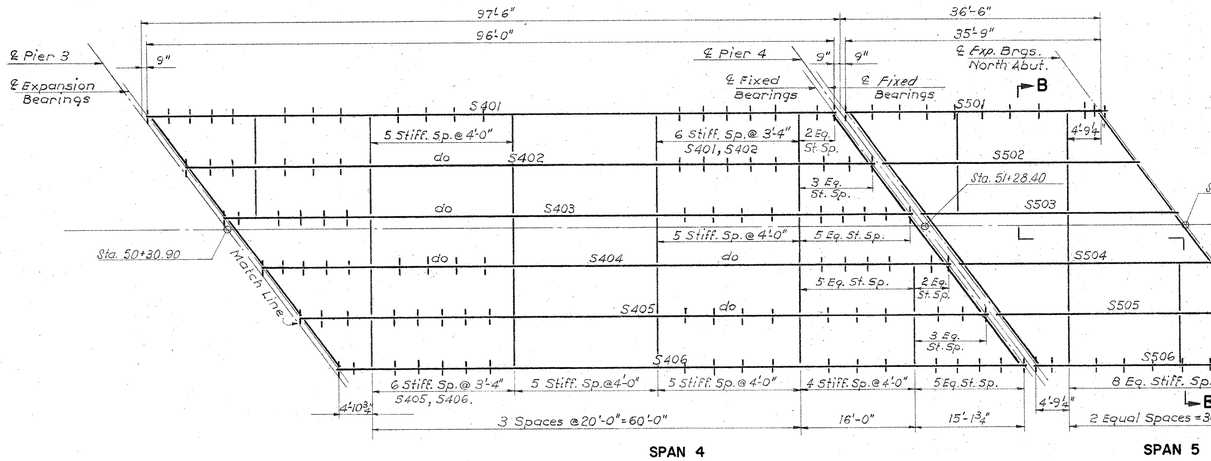
M 344 01

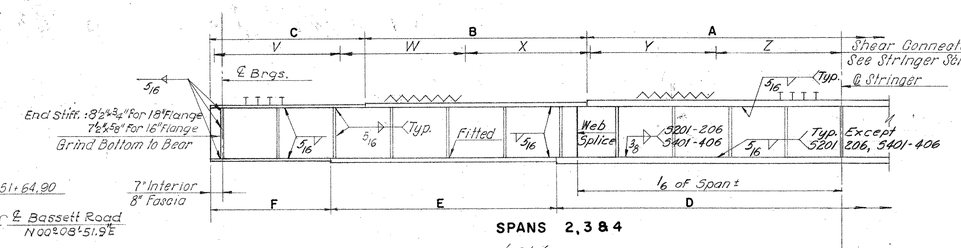
218. #9

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	220	812

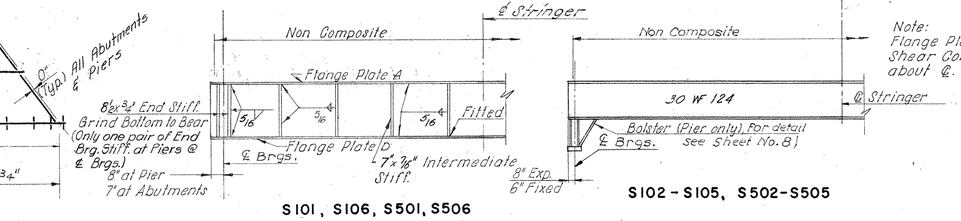


Note:
Intermediate Stiffeners:
7"x 7/16" for 18" Flange and 6"x 3/8" for 16" Flange,
For spacing see Framing Plan.





SPANS 2, 3 & 4



S101, S106, S501, S506

Note:
Flange Plates, Cover Plates and Shear Connectors are symmetrical about ℄.

S102 - S105, S502 - S505

FRAMING PLAN

STRINGER ELEVATIONS

Not to Scale

STRINGER SCHEDULE

STRINGER MARK	LENGTH C. to C. Brgs.	WEB SIZE	FLANGE PLATES A SIZE	A LENGTH	B SIZE	B LENGTH	C SIZE	C LENGTH	D SIZE	D LENGTH	E SIZE	E LENGTH	F SIZE	F LENGTH	SPIRAL SHEAR CONNECTORS V	W	X	Y	Z	STUD SHEAR CONNECTORS V	W	X	Y	Z	DEAD LOAD DEFLECTIONS Structural Steel	Concrete Slab	Safety Curb and Parapet	Future Provision Allowance	Bituminous Wearing Surface	CAMBERS Total Dead Load Camber	Vertical Curve Ordinate	Extra Camber L/100	Total Camber Required
S101, S106 S501, S506	35'-9"	48"x⅜"	18"x¾"	F.L.	—	—	—	—	18"x¾"	F.L.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1/16"	1/8"	1/8"		0"	5/16"	S101-S106 0" S501-S506 0"	3/8"	S101-S106 1/4" S501-S506 3/4"
S201	92'-6"		18"x1¼"	51'0"	18"x¾"	Rem.	—	—	18"x2⅜"	71'0"	18"x1⅝"	Rem.	—	—	*14 Sp. @ 7 1/2" 8'-9"	26 Sp. @ 4 1/2" 9'-9"	20 Sp. @ 6" 10'-0"	15 Sp. @ 8" 10'-0"	8 Sp. @ 12" 8'-0"	22 Sp. @ 4 1/2" 8'-3"	20 Sp. @ 6" 10'-0"	15 Sp. @ 8" 10'-0"	11 Sp. @ 11" 10'-1"	6 Sp. @ 16" 8'-0"	1/2"	1"	1/2"		3/16"	2 3/16"	3 15/16"	15/16"	7"
S202-S205	92'-6"		18"x1⅛"	63'6"	18"x¾"	Rem.	—	—	18"x2⅜"	72'-4"	18"x1⅝"	Rem.	—	—	*14 Sp. @ 7 1/2" 8'-9"	26 Sp. @ 4 1/2" 9'-9"	19 Sp. @ 6" 9'-6"	15 Sp. @ 8" 10'-0"	9 Sp. @ 11" 8'-3"	22 Sp. @ 5" 9'-2"	20 Sp. @ 6" 10'-0"	16 Sp. @ 8" 10'-8"	10 Sp. @ 11" 9'-2"	6 Sp. @ 15" 7'-6"	5/8"	1 1/8"	5/16"		3/16"	2 1/4"	3 13/16"	15/16"	7 1/8"
S206	92'-6"		18"x1⅜"	50'-9"	18"x¾"	Rem.	—	—	18"x1⅞"	68'-6"	18"x1⅛"	Rem.	—	—	25 Sp. @ 5" 10'-5"	18 Sp. @ 7" 10'-6"	13 Sp. @ 10" 10'-10"	11 Sp. @ 16" 14'-8"	—	21 Sp. @ 6" 10'-6"	13 Sp. @ 9" 9'-9"	11 Sp. @ 12" 11'-0"	—		1/2"	1 5/16"	1/8"		0"	2 15/16"	3 13/16"	15/16"	7 3/4"
S301	76'-0"		18"x¾"	F.L.	—	—	—	—	18"x3⅜"	53'-3"	18"x3¼"	Rem.	—	—	21 Sp. @ 4" 7'-0"	20 Sp. @ 4 1/2" 7'-6"	17 Sp. @ 6" 8'-6"	12 Sp. @ 8" 8'-0"	8 Sp. @ 10 1/2" 7'-0"	19 Sp. @ 5" 7'-11"	14 Sp. @ 6" 7'-0"	12 Sp. @ 8" 8'-0"	10 Sp. @ 10" 8'-4"	6 Sp. @ 14" 7'-0"	1/4"	11/16"	5/16"		1/8"	1 3/8"	2 9/16"	3/4"	4 3/4"
S302-S305	76'-0"		16"x¾"	F.L.	—	—	—	—	16"x1½"	54'-2"	16"x¾"	Rem.	—	—	22 Sp. @ 4" 7'-4"	22 Sp. @ 4 1/2" 8'-3"	17 Sp. @ 6" 8'-6"	10 Sp. @ 8" 6'-8"	9 Sp. @ 10" 7'-6"	19 Sp. @ 4" 7'-11"	16 Sp. @ 5" 8'-0"	12 Sp. @ 8" 8'-0"	8 Sp. @ 10" 6'-8"	7 Sp. @ 15" 7'-7"	1/4"	3/4"	5/16"		1/8"	1 5/16"	2 9/16"	3/4"	4 5/8"
S306	76'-0"		18"x¾"	F.L.	—	—	—	—	18"x1⅛"	50'-0"	18"x¾"	Rem.	—	—	16 Sp. @ 6" 8'-0"	11 Sp. @ 8" 7'-4"	10 Sp. @ 11" 9'-2"	7 Sp. @ 16" 15'-6"	—	11 Sp. @ 8" 7'-4"	9 Sp. @ 10" 7'-6"	7 Sp. @ 14" 8'-2"	6 Sp. @ 18" 15'-0"		1/4"	15/16"	3/4"		0"	1 15/16"	2 9/16"	3/4"	5 1/4"
S401	96'-0"		18"x1⅜"	56'4"	18"x¾"	Rem.	—	—	18"x2¼"	75'-6"	18"x1⅛"	Rem.	—	—	*14 Sp. @ 7 1/2" 8'-9"	28 Sp. @ 4 1/2" 10'-6"	20 Sp. @ 6" 10'-0"	15 Sp. @ 8" 10'-0"	9 Sp. @ 12" 9'-0"	25 Sp. @ 4 1/2" 9'-3½"	20 Sp. @ 6" 10'-0"	15 Sp. @ 8" 10'-0"	12 Sp. @ 11" 11'-0"	6 Sp. @ 16" 8'-0"	1/2	1 1/8"	1/2"		1/4"	2 3/8"	3 7/8"	15/16"	7 1/4
S402-S405	96'-0"	↓	18"x1¼"	63'-0"	18"x¾"	Rem.	—	—	18"x2⅝"	74'-0"	18"x1⅛"	Rem.	—	—	*14 Sp. @ 7 1/2" 8'-9"	28 Sp. @ 4 1/2" 10'-6"	20 Sp. @ 6" 10'-0"	15 Sp. @ 8" 10'-0"	9 Sp. @ 12" 9'-0"	25 Sp. @ 4 1/2" 9'-3½"	20 Sp. @ 6" 10'-0"	15 Sp. @ 8" 10'-0"	12 Sp. @ 11" 11'-0"	6 Sp. @ 16" 8'-0"	11/16"	1 3/16"	5/16"		1/4"	2 7/16"	3 7/8"	15/16"	7 3/8
S406	96'-0"	48"x⅜"	18"x1½"	56'-6"	18"x¾"	Rem.	—	—	18"x2"	77'-4"	18"x1⅝"	Rem.	—	—	28 Sp. @ 5" 11'-8"	19 Sp. @ 7" 11'-1"	13 Sp. @ 10" 10'-10"	11 Sp. @ 16" 14'-8"	—	22 Sp. @ 6" 11'-0"	15 Sp. @ 9" 11'-3"	11 Sp. @ 12" 11'-0"	10 Sp. @ 18" 15'-0"	—	1/2"	1 3/8"	1/4"		0	3/8"	3 7/8"	15/16"	8"
S102-S105 S502-S505	35'-9"		30 WF 124												—	—	—	—	—	—	—	—	—	—	1/16"	1/8"	1/16"		1/16"	5/16"	S102-S105 5/8" S501-S506	3/8"	S102-S105 1/4" S502-S505 3/4"

FL. = Full length stringer
Rem. = Remaining distance

* Indicates 2 - ¾" ϕ Spiral

03120

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
FRAMING PLAN

REVISIONS NO.	DATE	DESCRIPTION

DESIGNED BY GOODKIND & O'DEA
SCALES 1" = 10'-0"
MADE BY D.S. DATE 2-1-62
CHECKED BY J.V. DATE 4-1-62
APPROVED [signature] DATE 11/9/62
PROJECT NO. 100-60
BRIDGE SHEET NO. 5 OF 10

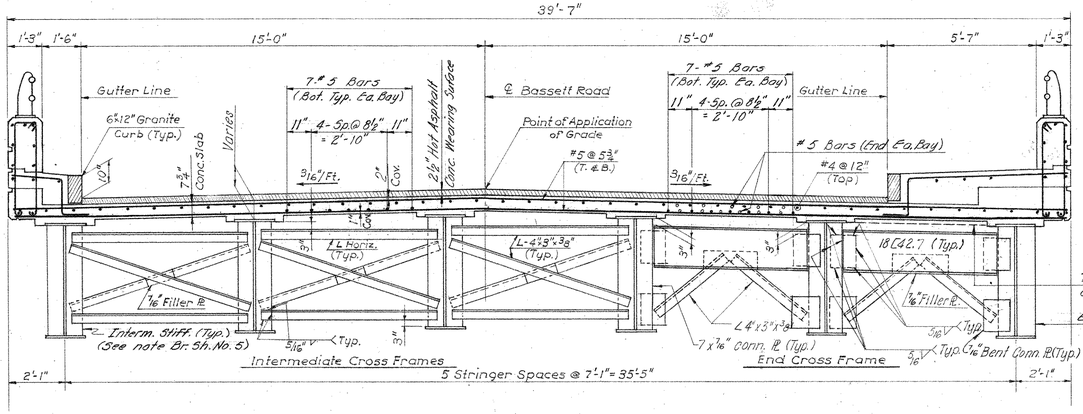
D & W BLUEPRINT CO.

100 60

M 344 01

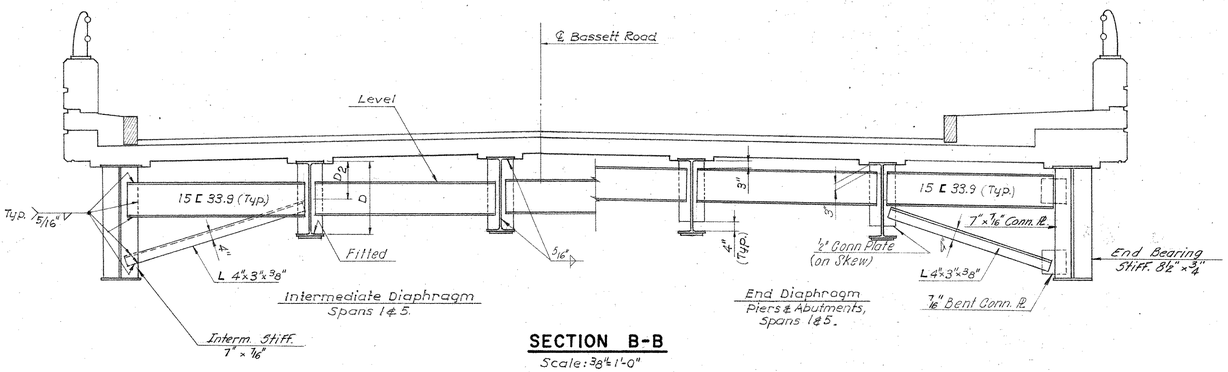
220 #9

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	221	812



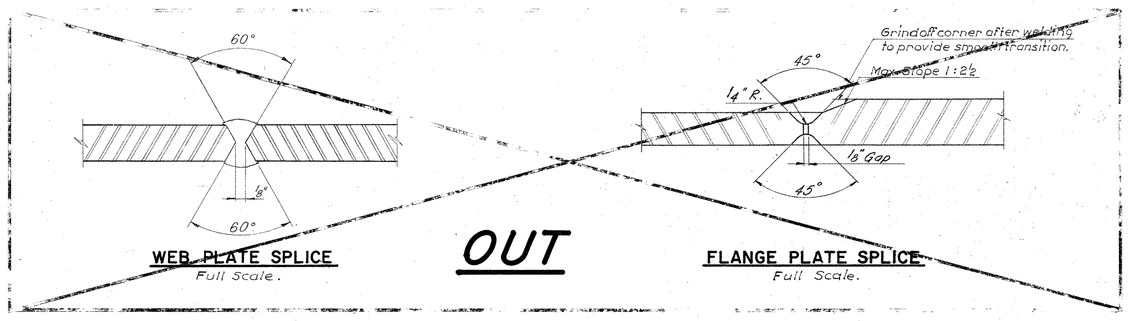
SECTION A-A

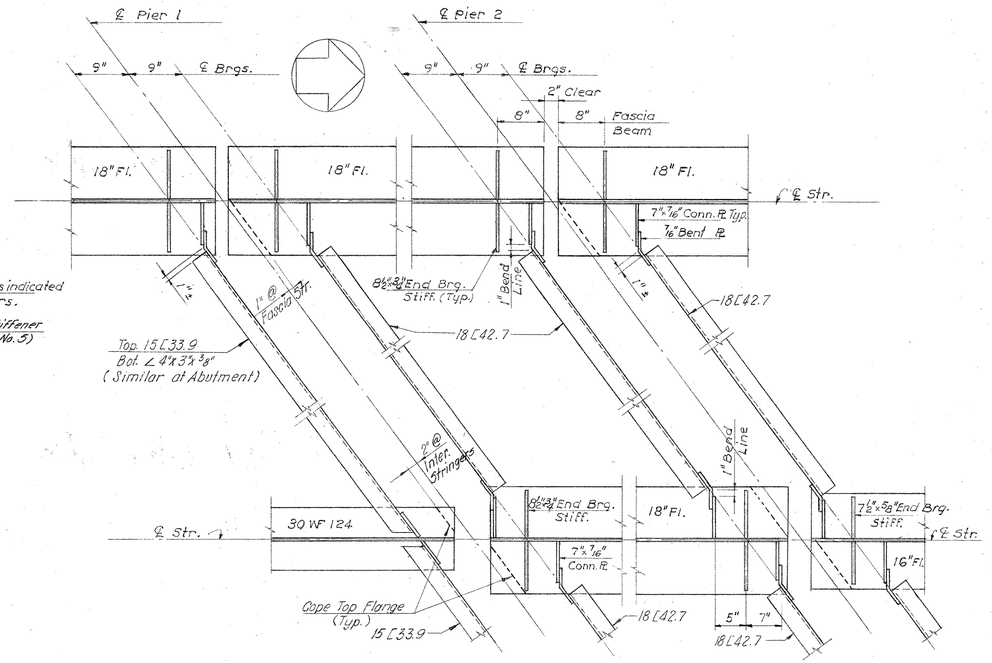
Scale: 3/8"=1'-0"



SECTION B-B

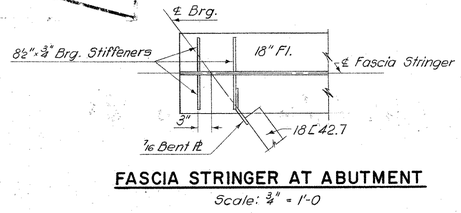
Scale: 3/8"=1'-0"





TYPICAL FRAMING DETAIL

Scale 1"=1'-0"



FASCIA STRINGER AT ABUTMENT

Scale: ¾" = 1'-0

STRUCTURAL STEEL NOTES:

All Structural Steel shall conform to A.S.T.M. Spec. A-36-62T.
All masonry plates shall conform to A.S.T.M. Spec. A-292 (modified) steel.
All welding shall comply with the provisions of the current Specifications for welded Highway and Railroad Bridges of the American Welding Society. (See Spec. provisions)
All Butt welds in the webs and in top and bottom flanges shall be completely radiographed (See Spec. Provisions)
All Butt welds shall be ground smooth and flush with the base material on all surfaces.
All flange to Web Fillet welds shall be inspected in their entirety by the magnetic particle method (See Spec. Provisions)
Particular attention is directed to the requirement that the ends of all butt welds in the flanges shall be made with extensions as described in Article 505-k of the 1956 A.W.S. Specifications.
Web plate splices shall be entirely welded with complete penetration double-vee-butt welds in advance of assembly.
In order to avoid locked in stresses when welding flange plates to web plates, welding shall begin at the center of the girders and proceed outward to the ends, leaving the ends free to move as the welds contract. Also when welding the flange plates to the web plates, special precaution must be exercised in the positioning of the electrodes so that the major portion of the welding heat is applied to the thicker flange plates.
Finished girders shall be true to line and shape and free from any distortion, warpage or other shrinkage losses.
Butt weld details shall conform to current A.W.S., web shop splices shall be located within the middle third of the Span.
Double groove butt welds shall be used for flange shop splices.
Flange splices shall be located a minimum of 6" from web splices.
Stiffeners shall be located a minimum of 6" from flange or web splices.
Bearing and intermediate stiffeners shall be parallel and vertical after application of full dead loads.
Ends of stringers shall be vertical after application of full dead loads.
Intermediate stiffener spacing shall be determined by fabrication requirements but within the maximum limits shown.
Shop splices, other than those shown on the plans, may be requested by the Contractor. These additional shop splices including the radiographic inspection of their welds as determined by the Engineer, shall be at no extra expense to the State.
Spiral lengths given in the stringer schedule do not include any allowance for laps. For details of laps and of welding studs or spirals to stringers, see Bridge Sheet No. 8.
Do not paint top and sides of top flange or any other surface in contact with concrete. (See Spec. Provision)
For details of anchor bolts see Bridge Sheet No. 8.
No Field splices will be permitted.

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
STEEL DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY GOODKIND & O'DEA
SCALES As Noted
MADE BY D. S. DATE 2-1-62
CHECKED BY I. V. DATE 4-1-62
APPROVED [signature] DATE 11/9/62
PROJECT NO. 100-60
BRIDGE SHEET NO. 6 OF 10

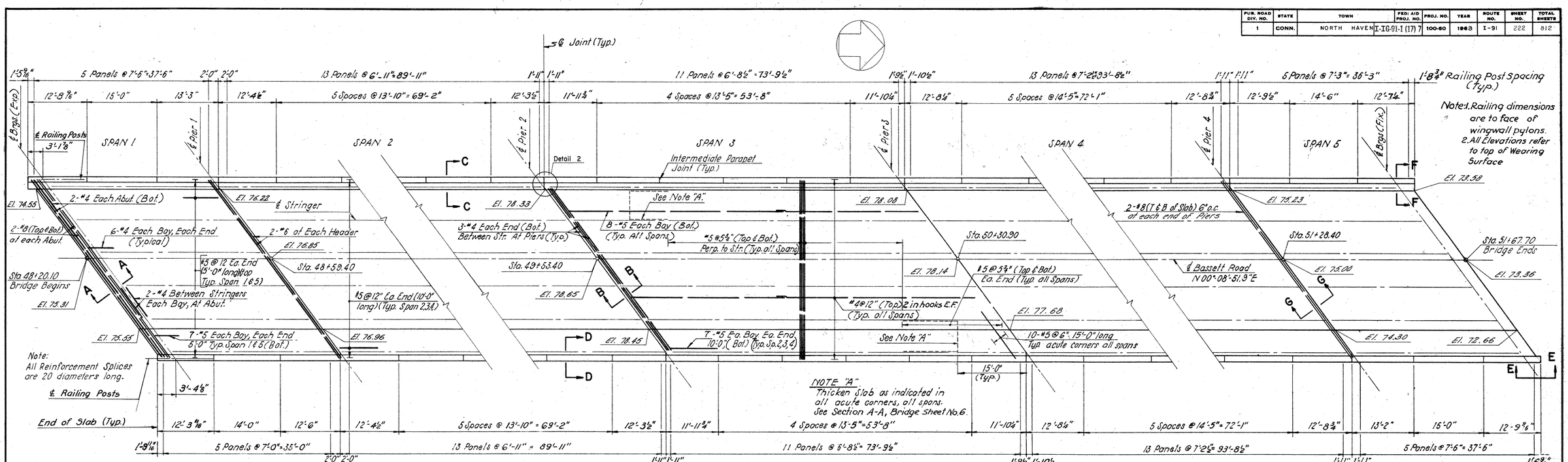
D & W BLUEPRINT CO.

100 60

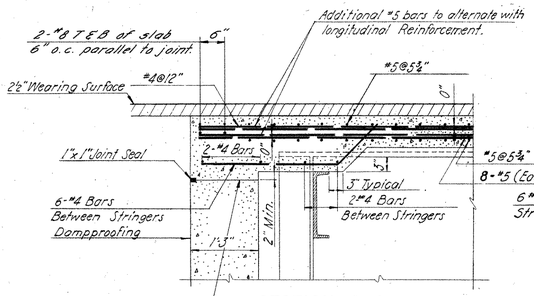
M 344 01

221. #9

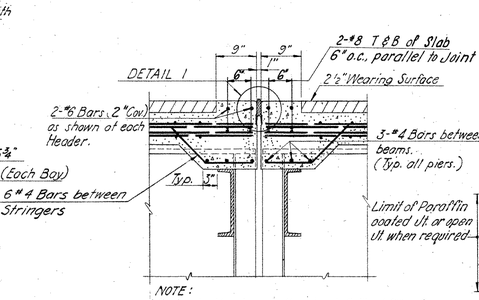
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	222	812



DECK
Scale: 1" = 10"

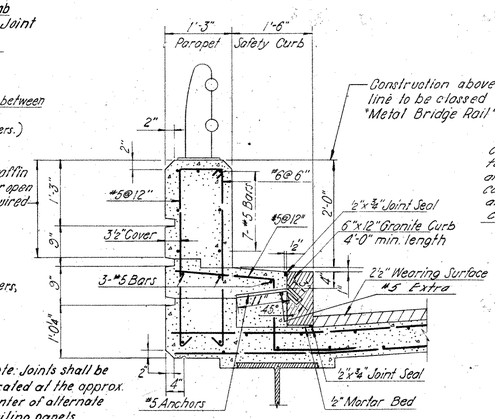


SECTION A-A
Scale: ¾" = 1'-0"



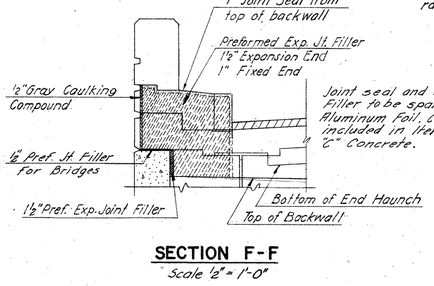
NOTE:
Concrete Header shall extend full width of roadway. For color treatment of Concrete Headers, see Special Provisions for "Class 'C' Concrete."

SECTION B-B
Scale: ¾" = 1'-0"

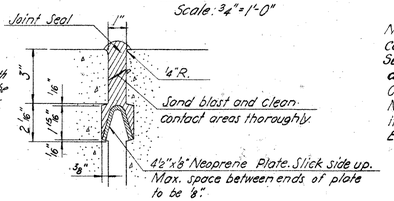


Note: Joints shall be located at the approx. center of alternate railing panels.

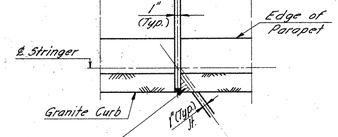
SECTION C-C
Scale: ¾" = 1'-0"



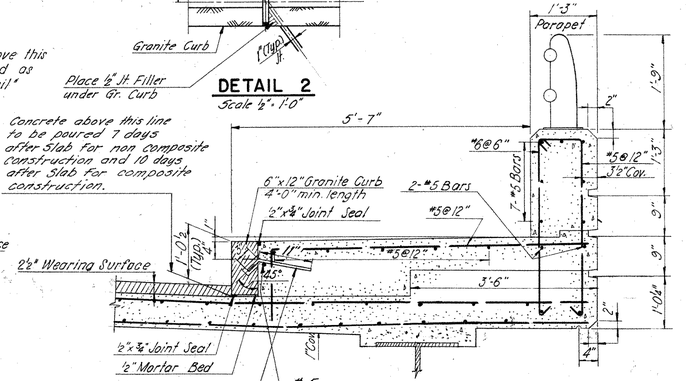
SECTION F-F
Scale 2" = 1'-0"



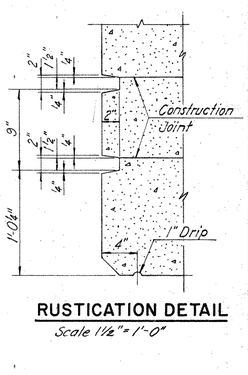
DETAIL 1
Scale: 3" = 1'-0"



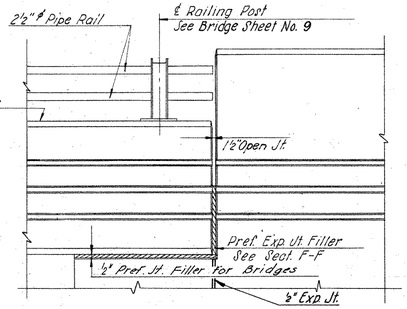
DETAIL 2
Scale ½" = 1'-0"



SECTION D-D
Scale: ¾" = 1'-0"

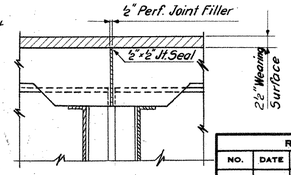


RUSTICATION DETAIL
Scale 1½" = 1'-0"



ELEVATION E-E
Scale ½" = 1'-0"

NOTE:
Cost of furnishing and installing Joint Seal is to be included in item for applicable Class Concrete
Cost of furnishing and installing Neoprene Plate is to be included in item "Neoprene Plate for Bridge Expansion Joint."



Bars not shown

SECTION G-G
Scale: ¾" = 1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
DECK

DESIGNED BY GOODKIND & O'DEA
SCALES As Noted
MADE BY T.W.H. DATE 2.1.62
CHECKED BY J.V. DATE 4.1.62
APPROVED [signature] DATE 11/9/62
PROJECT NO. 100-60
BRIDGE SHEET NO. 7 of 10

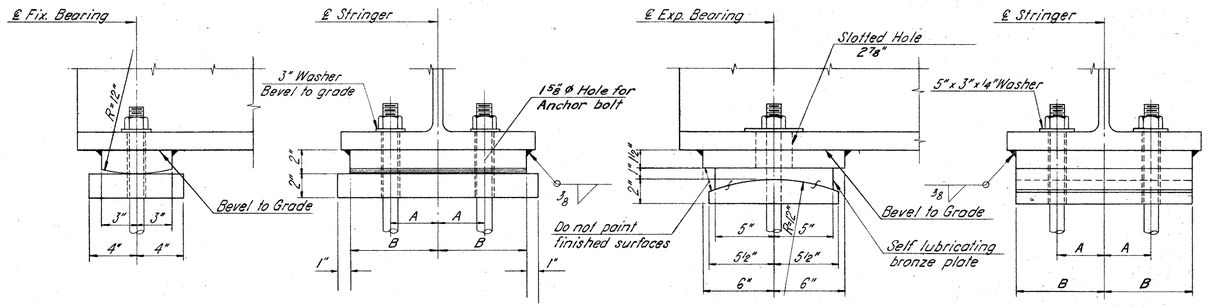
D & W BLUEPRINT CO.

100 60

M. 344 01

222. #9

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	223	812



FIXED BEARINGS

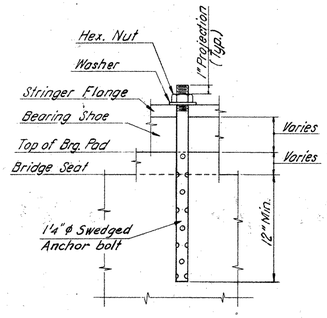
Scale: 2"=1'-0"

(For North End of Stringers S102 - S105, Incl.; For South End of Stringers S502-S505, Incl.)

EXPANSION BEARINGS

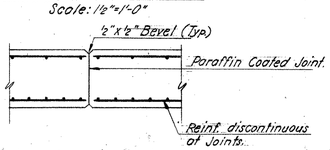
Scale: 2"=1'-0"

(For South End of Stringers S101 - S106, Incl. For North End of Stringers S501 - S506, Incl.)



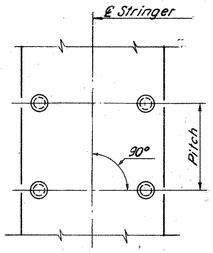
ANCHOR BOLT DETAIL

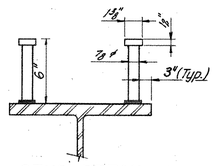
Scale: 1/2"=1'-0"



INTERMEDIATE PARAPET JOINT

Not to Scale





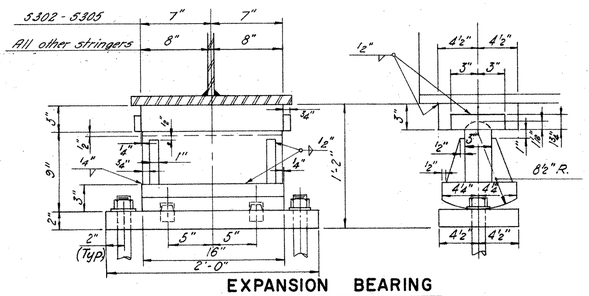
STUD DETAIL

Scale: 2"=1'-0"

Notes:

Masonry plates shall conform to A.S.T.M. A-242 (modified) steel. See Spec. Provisions for "Structural Steel."
Self lubricating bronze plate shall have drilled in or prepanned recesses on both surfaces (see Special Provisions).
Anchor bolt must be in center of hole @ 50°F.
Nuts to be drawn up finger tight then backed off 1/6 turn and threads of bolts burred off at face of nut with a pointed tool.
Holes in plates and stringer flanges to be vertical.
Anchor bolts 1 1/4" ø; circular holes 1 5/8" ø; slotted holes 1 5/8" x 2 7/8".
Payment for all material used in bearings, including anchor bolts, and self lubricating bronze plates shall be made at the unit price bit for "Structural Steel" (See Special Provisions).

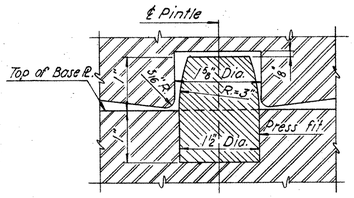
BEARING DIMENSIONS		
Stringer	A	B
30WF 124	2 3/4"	4 1/2"
S101, S106 & S301 & S306	4"	7 1/2"



EXPANSION BEARING

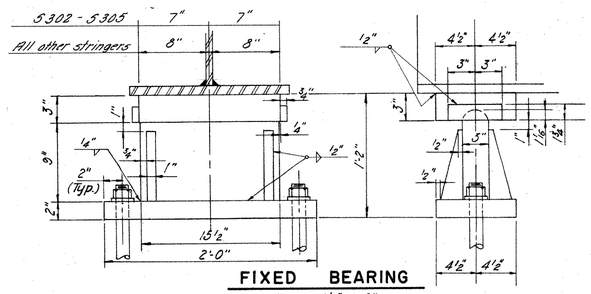
Scale: 1 1/2"=1'-0"

Spans 2, 3 & 4.



PINTLE DETAIL

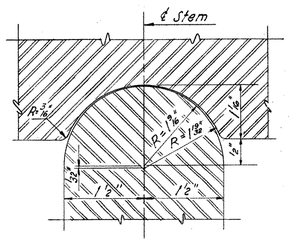
Scale: 3/4"=1"



FIXED BEARING

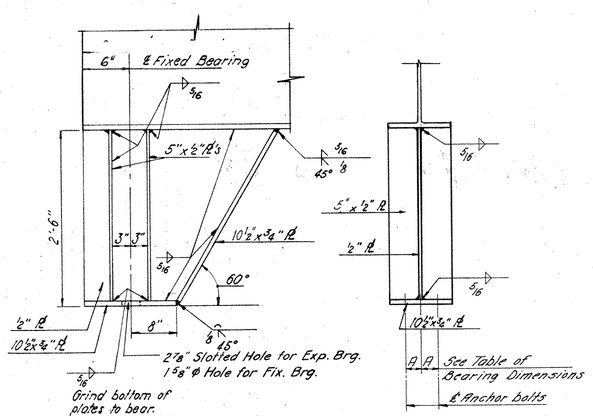
Scale: 1 1/2"=1'-0"

(Spans 2, 3 & 4. North end S101 & S106. South end S501 & S506)



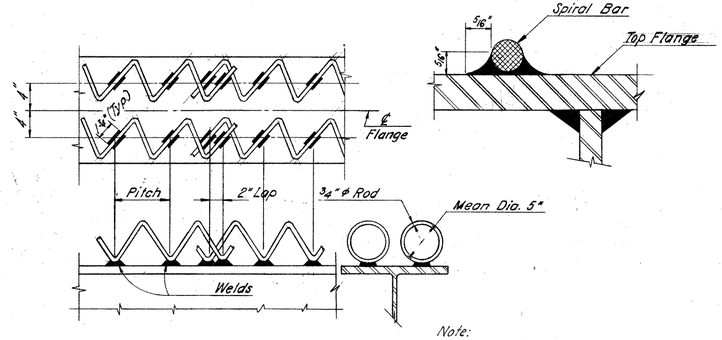
STEM DETAIL

Scale: 3/4"=1"



BOLSTER DETAILS

Scale: 1"=1'-0"



Note:
Where one spiral is specified place at ℄ of Flange.

SPIRAL DETAILS

No Scale

SHEAR CONNECTOR QUANTITIES		
Spiral Shear Connector Bars	lbs.	6578
Welded Stud Shear Connectors	ea.	4912

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REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
MISCELLANEOUS DETAILS

DESIGNED BY GOODKIND & O'DEA

SCALES As Noted
MADE BY J.P. DATE 2-1-62
CHECKED BY J.V. DATE 2-1-62
APPROVED DATE 11/9/62

PROJECT NO. 100-60
BRIDGE SHEET NO. 8 OF 10

D & W BLUEPRINT CO.

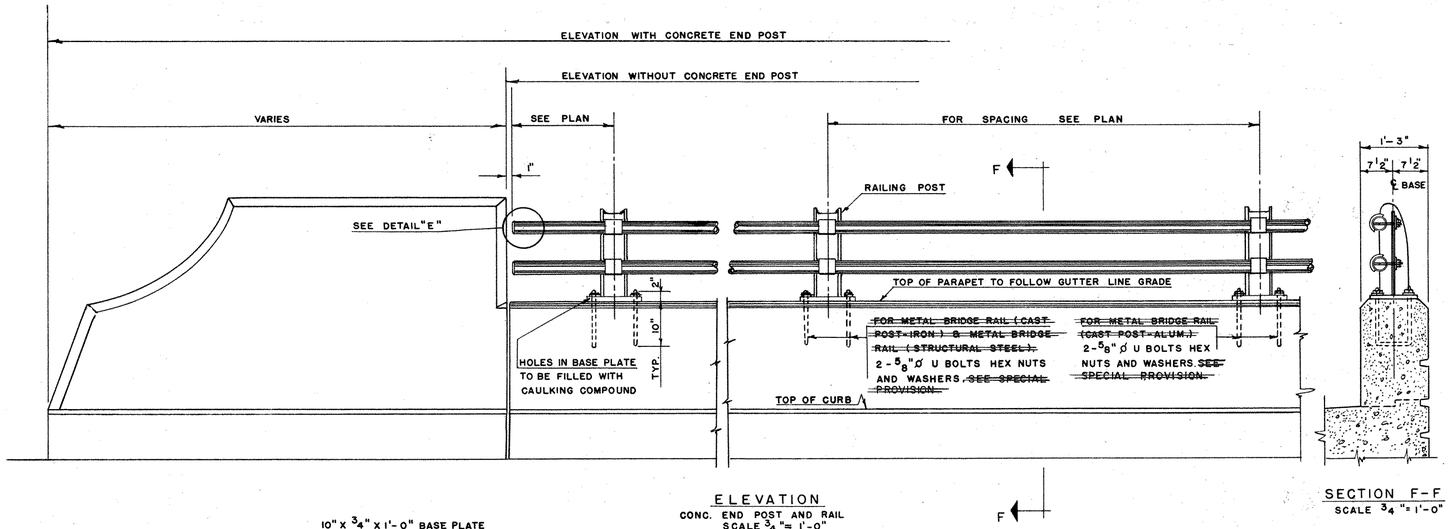
100 60

M 344 01

223 #9

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.	NORTH HAVEN	I-IG-91-1 (17) 7	100-60	1963	I-91	224	812



ELEVATION
CONC. END POST AND RAIL
SCALE 3/4"= 1'-0"

SECTION F-F
SCALE 3/4"= 1'-0"

METAL BRIDGE RAIL
(STRUCTURAL STEEL)

ALL POSTS TO BE 6 WF 20 STRUCTURAL STEEL.
ALL RAILS TO BE 2 1/2"ø STANDARD STEEL PIPE.
RAILING POSTS SHALL BE VERTICAL.
IF NECESSARY SHIM WITH LEAD WOOL AND CAULK. ~~COST TO BE INCLUDED IN ITEM METAL BRIDGE RAIL (STRUCTURAL STEEL).~~
~~FOR PAINTING SEE SPECIAL PROVISIONS.~~
~~ALL POSTS & BASE PLATES TO BE OF STRUCTURAL STEEL CONFORMING TO A.S.T.M. A-7.~~

METAL BRIDGE RAIL
(CAST POST - IRON)

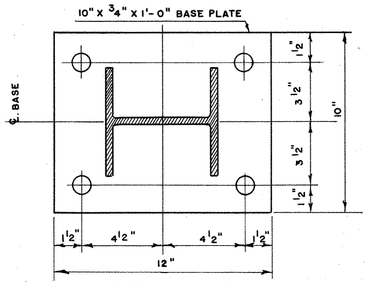
ALL POSTS TO BE MALLEABLE IRON CASTING ~~CONFORMING TO A.S.T.M. A-47 GRADE 35018 OR DUCTILE IRON CASTING CONFORMING TO A.S.T.M. A-338.~~
ALL RAILS TO BE 2 1/2"ø STANDARD STEEL PIPE.
RAILING POSTS SHALL BE VERTICAL.
IF NECESSARY SHIM WITH LEAD WOOL AND CAULK. ~~COST TO BE INCLUDED IN ITEM METAL BRIDGE RAIL (CAST POST-IRON).~~
~~FOR PAINTING SEE SPECIAL PROVISIONS.~~

METAL BRIDGE RAIL
(CAST POST - ALUMINUM)

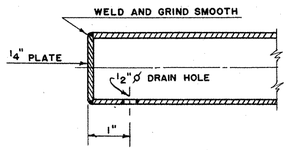
ALL POSTS TO BE CAST OF ALUMINUM. ~~SEE SPECIAL PROVISION.~~
ALL RAILS TO BE 3" O.D. X 2.625" I.D. ALUMINUM TUBING. ~~SEE SPECIAL PROVISIONS.~~
RAILING POSTS SHALL BE VERTICAL.
IF NECESSARY SHIM WITH ALUMINUM SHEETS AND CAULK. ~~COST TO BE INCLUDED IN ITEM METAL BRIDGE RAIL (CAST POST-ALUM.).~~
ALUMINUM RAILING AND POSTS SHALL NOT BE PAINTED.

GENERAL NOTES:

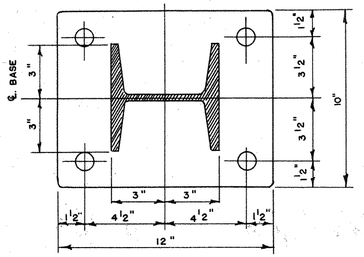
UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS METAL BRIDGE RAIL MAY BE: METAL BRIDGE RAIL (STRUCTURAL STEEL). METAL BRIDGE RAIL (CAST POST-IRON) OR METAL BRIDGE RAIL (CAST POST-ALUMINUM).
COST OF FURNISHING AND SETTING 5/8"ø U BOLTS, HEX NUTS AND WASHERS TO BE INCLUDED IN ITEM "METAL BRIDGE RAIL."



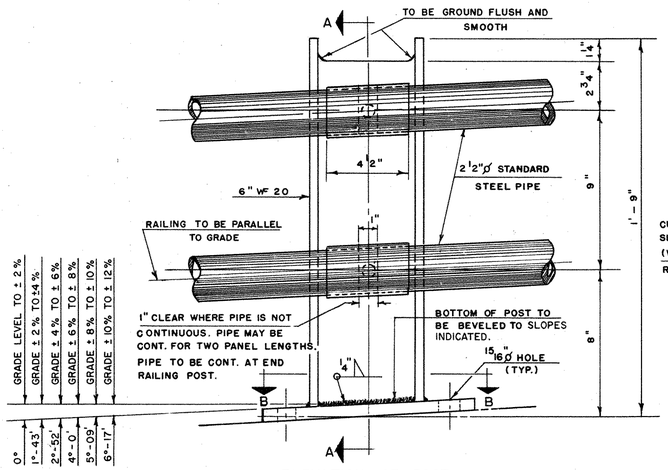
SECTION B-B
SCALE 3"= 1'-0"



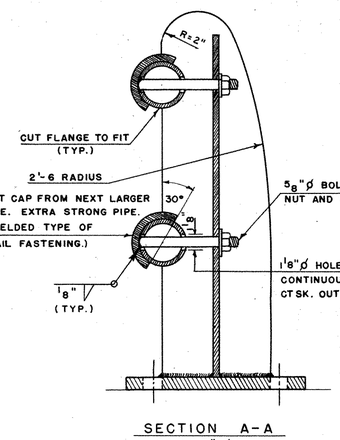
DETAIL "E"
NOT TO SCALE



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

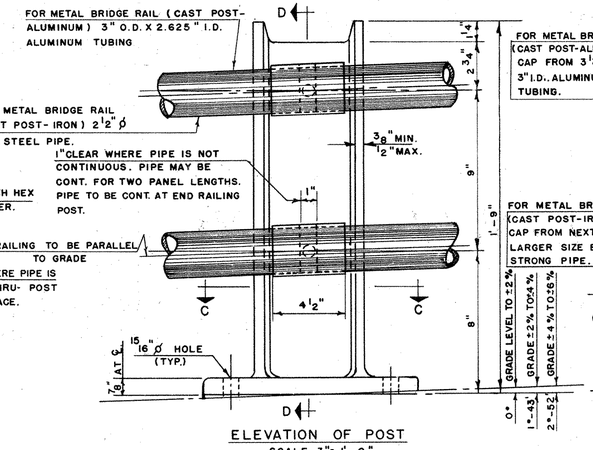


ELEVATION OF POST
SCALE 3"= 1'-0"

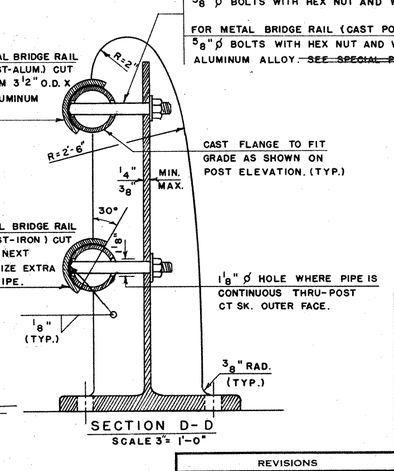


SECTION A-A
SCALE 3"= 1'-0

DETAILS
STRUCTURAL STEEL POST
FOR METAL BRIDGE RAIL (STRUCTURAL STEEL)



ELEVATION OF POST
SCALE 3"= 1'-0"



SECTION D-D
SCALE 3"= 1'-0"

NOTE
DETAILS OF METAL BRIDGE RAILING AND FASTENING SIMILAR TO DETAILS SHOWN FOR METAL BRIDGE RAILING. (STRUCTURAL STEEL.)

DETAILS
CAST POST
FOR METAL BRIDGE RAIL (CAST POST-IRON)
AND
FOR METAL BRIDGE RAIL (CAST POST-ALUMINUM)

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE HIGHWAY ROUTE 91
UNDER
BASSETT ROAD
METAL BRIDGE RAIL

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY C.H.D. (Revised 6-61)
SCALES AS NOTED
MADE BY G.M.K. & G.J.Z. DATE 4-29-60
CHECKED BY J.F.C. DATE 10/29/60
APPROVED V.F. Bryan DATE 6/5/61
PROJECT NO. 100-60
BRIDGE SHEET NO. 9 OF 10

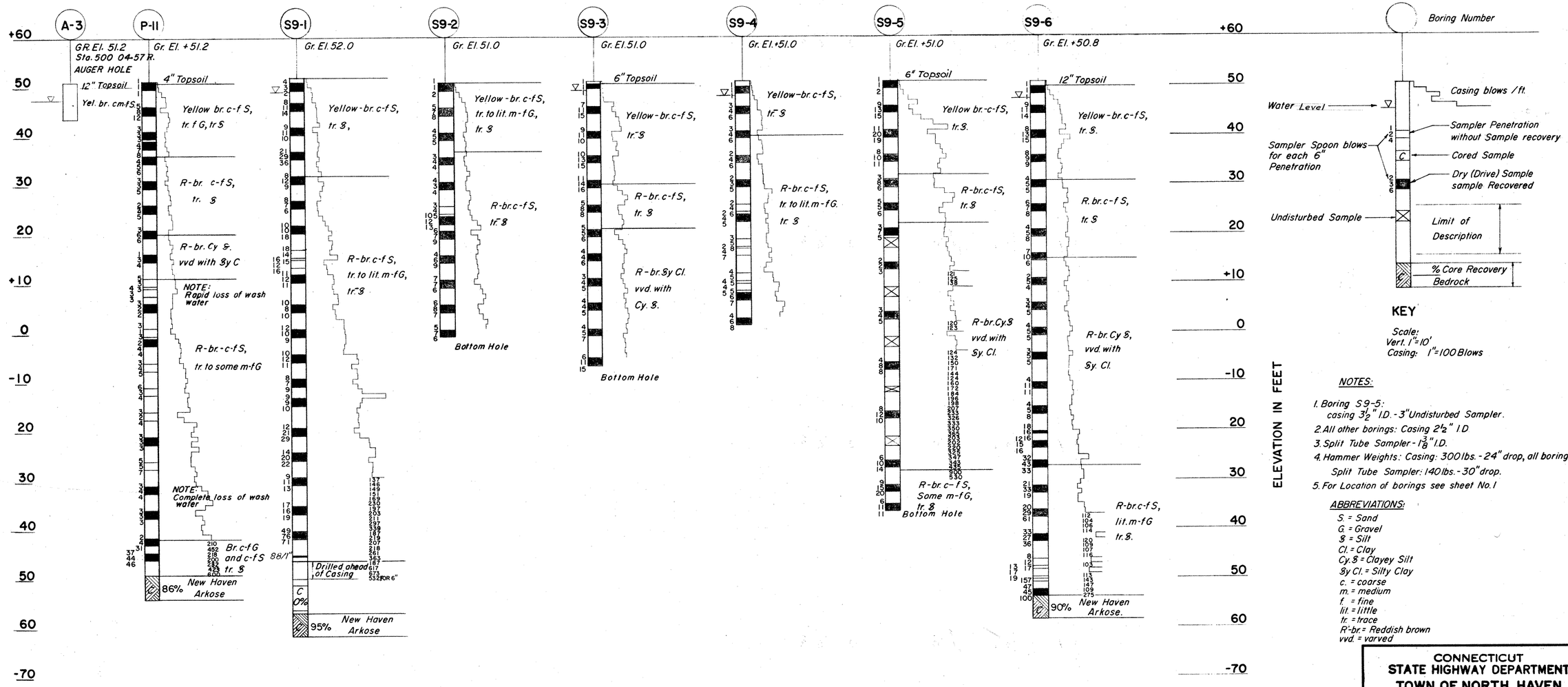
"ARKWRIGHT" TRACING CLOTH JOSEPH MERRITT & CO. 11810

100 60

M 344 01

224 #9

FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJECT NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	NORTH HAVEN	I-IG91-1 (17) 7	100-60	1963	I-91	225	812



NOTES:

1. Boring S 9-5: casing $3\frac{1}{2}$" I.D. - 3" Undisturbed Sampler.
2. All other borings: Casing $2\frac{1}{2}$" I.D.
3. Split Tube Sampler - $1\frac{3}{8}$" I.D.
4. Hammer Weights: Casing: 300 lbs. - 24" drop, all borings
   Split Tube Sampler: 140 lbs. - 30" drop.
5. For Location of borings see sheet No. 1

ABBREVIATIONS:

S = Sand
G = Gravel
$\overline{S}$ = Silt
Cl. = Clay
Cy. S = Clayey Silt
Sy Cl. = Silty Clay
c. = coarse
m. = medium
f. = fine
lit. = little
tr. = trace
R-br. = Reddish brown
vvd. = varved

CONNECTICUT STATE HIGHWAY DEPARTMENT
TOWN OF NORTH HAVEN
INTERSTATE ROUTE 91
UNDER
BASSETT ROAD
BORING DATA

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DESIGNED BY	GOODKIND & O'DEA	
SCALES	As Noted	PROJECT NO. 100-60
MADE BY	T.W.H. DATE 2-1-62	
CHECKED BY	DATE 2-1-62	BRIDGE SHEET NO.
APPROVED	DATE 11/1/62	10 OF 10

100 60

M344 01

225 #9