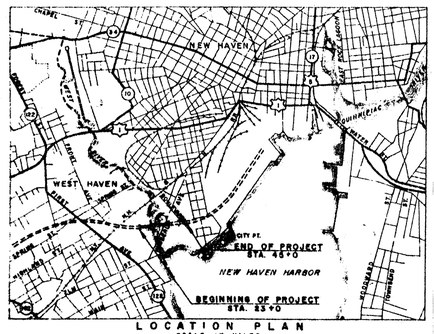
WEST RIVER



LOCATION PLAN
SCALE IN MILES

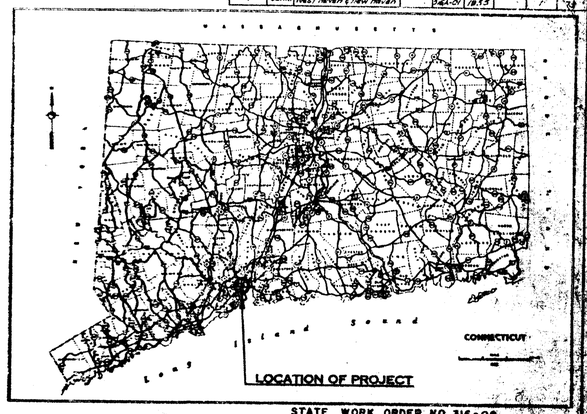
CONNECTICUT
STATE HIGHWAY DEPARTMENT
PLAN
FOR
CONSTRUCTION
OF 2 GRADE SEPARATION STRUCTURES ON
GREENWICH–KILLINGLY EXPRESSWAY
PUBLIC ACTS 1953 SESSION LAW 1953 SUPP. CHAP. 107, PART IV CONNECTICUT TURNPIKE
SECTION NO. 16A
CONTRACT NO. 1
IN THE TOWNS OF
WEST HAVEN AND NEW HAVEN

FROM STA. SEE BELOW TO STA. SEE BELOW
LENGTH 1,900.00 FT.

SCALES
PLAN 1 IN. = 40 FT.
PROFILE HOR. 1 IN. = 40 FT. VERT. 1 IN. 4 FT.
CROSS SECTIONS 1 IN. = 10 FT.

CONNECTICUT TURNPIKE

PLAN SHEET SYS. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHTS.
1	CONN.	West Haven & New Haven		164-01	1957		1	



STATE WORK ORDER NO. 316-08

1955 SPECIFICATIONS, FORM NO. 808 GOVERN

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

DESIGN CLASSIFICATION—6 (URBAN)
ANTICIPATED DAILY TRAFFIC FOR 1975—20,400

PROPOSED CONSTRUCTION ON CONTRACT NO. 1

ROADWAY	STA. TO STA.	LENGTH		DESCRIPTION
Greenwich-Killingly Expressway	[illegible]	[illegible]		Grading
" " "	[illegible]	[illegible]		Surface Beam Composite Bridge [illegible]
" " "	[illegible]	[illegible]		Grade [illegible]
" " "	[illegible]	[illegible]		Grading
" " "	[illegible]	[illegible]		5 Span Composite Beam Bridge
" " "	[illegible]	[illegible]		Grading
" " Ramp "B"	[illegible]	[illegible]	[illegible]	Paving & Grading
" " "	[illegible]	[illegible]	[illegible]	Reinforced Beam Composite Bridge [illegible]
Kimberly Avenue	[illegible]	[illegible]	[illegible]	Beginning of Grading
Kimberly Avenue Detour	[illegible]	[illegible]	[illegible]	Paving & Grading
Relocated Beechwood	[illegible]	[illegible]	[illegible]	Grading
		TOTALS	[illegible]	[illegible]

REVISED IN ACCORDANCE WITH THE MANUAL OF ADMINISTRATION AND CONSTRUCTION, STATE OF CONNECTICUT, 1964

KING & GAVARIS
CONSULTING ENGINEERS

PETER T. GAVARIS — PETER T. GAVARIS — PARTNER — TITLE — 3436 — P.E. NO.

Construction Started April 23, 1956
Construction Completed Dec. 7, 1957
Total Cost $3,019,435.47
Final Length 1900'

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.

STANDARD CONVENTIONS

Hedge, Guide Rail, Cut & Fill Slope, Storm Wall, Concrete Walk, Bituminous Walk, Proposed Trees, Property Line, Fence Line, Planet Fence, Board Fence, Retaining Wall, Open Culvert, Grade Crossing, Telephone Pole, Line & Guy Poles, Telley Poles, Series of Poles, Tree, Hydrant, Pole, M.H., Shrubbery, Heath Plant, Present Culvert, Proposed Culvert, Pipe, Inlet, Buildings, Streams, Bus. Marker, Prime Street, Highway Mark. C.G.S. Marker, Present C.B., Proposed C.B., Present Trolley Pole

LIST OF DRAWINGS

SHEET NO.	TITLE	SHEET NO.	TITLE
1	Title Sheet		STANDARD SHEETS
2	Index Plan and Profile Sheet	2715	Stage Plate
3	Detailed Estimate Sheet	2716	Bituminous Diagram
4	Typical Cross Sections	2717	Bituminous Concrete Pipe
5-14	Plan and Profile Sheets	2718	Concrete Curbing, Catchbasin Statement, Road Ditch
15	Plan and Profile Sheet for Ramp Section	2719	Stamps of Monogram
16	Construction Stage Sheet	2720	"Type "C" Catch Basin
17-29	Bridge Sheets	2721	Plans and Grade for Type "C" Catch Basin
30	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]
32	[illegible]	[illegible]	[illegible]
33-34	[illegible]	[illegible]	[illegible]

DESIGNED BY KING AND GAVARIS
PHILIP KING
FOR THE LICENSE BOARD
DATE [illegible]

APPROVED [illegible]
CHIEF ENGINEER
ENGINEER OF BRIDGES
APPROVED [illegible]
RESIDENT ENGINEER

316A 01

D C B A A B C D
1 2 3 4 4 3 2 1

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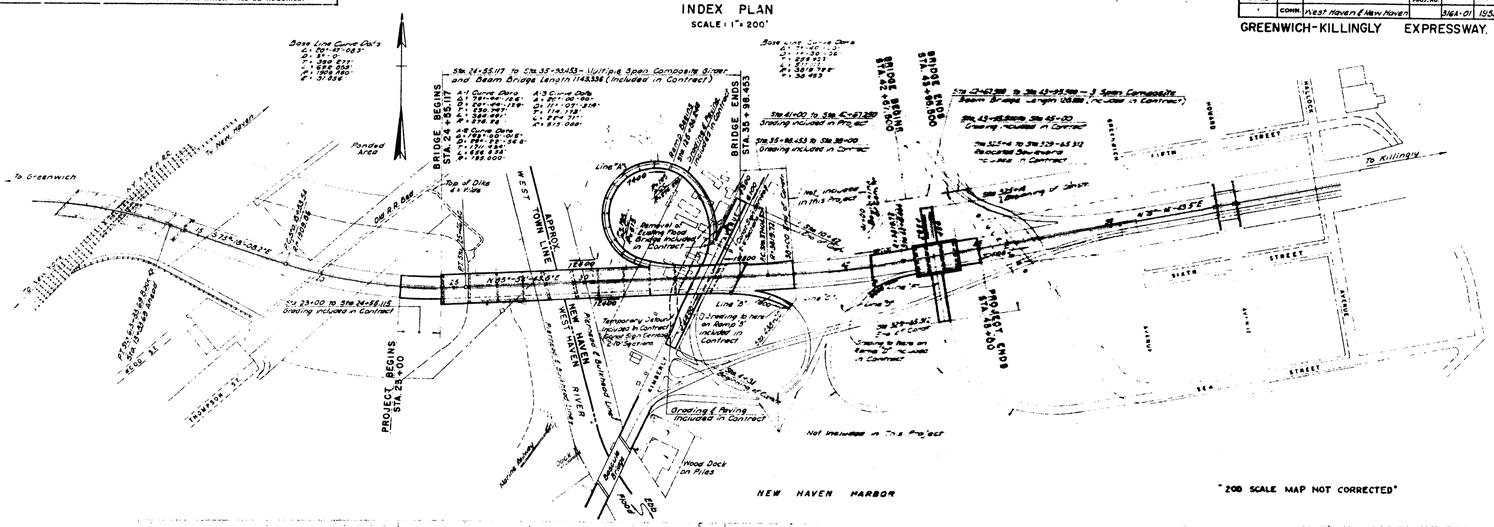
FORM NO. ENG. 10 ED.-940

FUL ROAD SYS. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven	3464-01	1955			2	73

GREENWICH-KILLINGLY EXPRESSWAY.

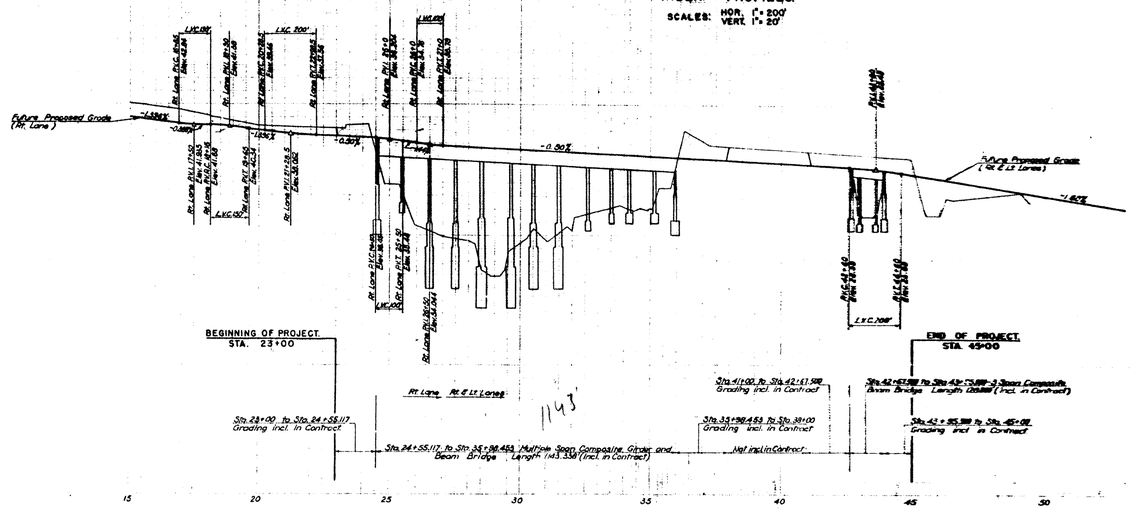
INDEX PLAN

SCALE: 1" = 200'



INDEX PROFILES.

SCALES: HOR. 1" = 200' VERT. 1" = 20'



PLAN	BY	DATE	CHECKED BY	DATE
Surveyed				
Plotted				
Traced				
Reviewed				
Grades Plotted				
Final Comp. Revised				
Designed				
NOTE BOOK NO.				

PROFILE	BY	DATE	CHECKED BY	DATE
Surveyed				
Plotted				
Grades Plotted				
Final Comp. Revised				
Designed				
NOTE BOOK NO.				

316 01

320 05

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.

FORM NO. SHC-8 5-50 M-T.

DETAILED ESTIMATE SHEET

FOR ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJECT NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		36-401	1955		3	73

FOR THE CONSTRUCTION OF SECTION NO. 16-A CONTRACT NO. 1 GREENWICH - KILLINGLY EXPRESSWAY IN THE TOWN OF WEST HAVEN & NEW HAVEN GREENWICH - KILLINGLY EXPRESSWAY

FROM STA. 23+0 / 41+0 TO STA. 38+0 / 43+0 LENGTH (SEE TITLE SHEET) WIDTH FEET; DEPTH INCHES; SURFACE COURSE WIDTH FEET; DEPTH INCHES

THIS SHEET NOT CORRECTED

EXCAVATION AND BORROW

STA. TO STA.		Common Excavation CY		Fill CY	Excess Earth Excavation CY
23+0	32+37	2708		96	
32+0	38+0	2212		2125	
41+0	42+67.2	3984		287	
44+0	45+0	2206		37	
Ramp "A"					
121+68.9	126+0	3757		5297	
Muck Excavation		38.2			
Relocated Boulevard					
833+4	839+63	10,267			
Kimberly Ave Detour					
		250		6	
Kimberly Ave.					
6+50	9+0	1181		54	
Miscellaneous		2637		311	
Totals		54936		19126	
Less Unauth. Matl.		10812			
Available for Fill from Bridge Excavation		2662			
Shrinkage		4278			
Available for Fill				38506	
Excess earth Excavation					19380

DRAINAGE

STA.	12" R.C.P. 15' LF	A.C.C.M.P. 15" LF	A.C.C.M.P. 24" LF	Reset Catch Basin Ea	Type "C" C.B. Ea	Manhole Ea	Class "A" Concrete CY	Ditch Excavation CY	Reset Manhole Ea	Trench Excavation 0-6 Deep CY	Trench Excavation 6-10 Deep CY
Kimberly Ave		266									
Sta 3+81-15' Lt									1		
Sta 8+55-40 Rt to 82' Lt			120			1	2.72			67	133
Sta 8+55-40 Rt to 9+51-60 Rt			76				2.72			68	
Sta 7+65-38 Lt to 16' Lt	20			1	1					29	
Sta 7+65-16 Lt to 8+67-16 Lt	100								2	117	
Ramp "A"								37			
Sta 135+0-15 Lt to 34 Lt		16			1		2.72			24	
Sta 123+24-12 Lt to Endwall		76			1		2.72			134	
Expressway											
Sta 42+0-5 Rt to 41+37-52 Lt	80	4			2					88	
Unassigned	12	14	4				1.12	3		54	17
Totals	212	374	200	1	5	1	12.50	3	3	590	150

CONSTRUCTION SIGNS, BARRICADES, ETC.

	Series 1 Construction Sign Ea	Series 2 Construction Sign Ea	Series 3 Construction Sign Ea	Series 4,5 Construction Sign Ea	Series 9 10 ft. Barricade Ea	Trafficmen Hr
Kimberly Avenue	8	2	2	2	8	
Unassigned						600
Totals	8	2	2	2	8	600

MISCELLANEOUS

STA. TO STA.		Broken Stone for Base Ton	Screened Stone for Bituminous Pavement Ton	Water for Dust Control M.G.	Calcium Chloride for Dust Control Ton		Clearing & Grubbing L.S.	Furnishing & Placing Topsoil SY	Subbase CY	Formation of Subgrade SY	Fence Posts Ea	Broken Stone Base Ton	Bituminous Macadam Base Gallon	Bituminous Material for Bituminous Macadam Pavement Gallon	Spreading & Leveling Slopes L.F.	Cone Pavement Curbing LF	Concrete Curbing LF	Bituminous Concrete Sidewalk SY	Hot Asphalt Concrete Ton	Bitum. Concrete Binder Course Ton	Maintenance of Traffic L.S.	Temporary Barricades LF	Removal & Replacement of Fence LS	Removal of Existing Fence CY	Erecting & Erecting Fence L.F.	Cutter Stone for Slope protection Ton	Liming Ton	Mulching SY	Portland Cement Bbl		Spreading & Seeding Slopes SY
Ramp "A"		197	55					2423	355	1010	70	134	2.96	4.57	680				64	86						50	1	10423	8		10423
Kimberly Ave 4+16	10+42	1042							1311	3857		705	6364			1162	210	340	458			1	522						8		
Kimberly Ave Detour										1517	233							112	112		140										
23+0	24+55														155										555						
35+98	38+0														202										551	419					
41+0	42+67														167											321					
43+96	45+0														124											227					
Drainage Curbing																													56		
																													103		
Unassigned		11	5	500	2			77	167		7	11	40		20	18	40	4	8				78		3	1	77	3		77	
Totals		1250	80	500	2		L.S.	10,500	1833	6384	330	850	8600	10.8	1700	1180	250	520	660	L.S.	140	L.S.	600	1096	1020	2	10,500	180	14	8	500

BRIDGE

STA.		STRUCTURE	Structure Excavation (Bridge) CY	Structure Backfill (Including Earthwork and Pumping) CY	Structure Excavation (Including Earthwork and Pumping) CY	6" Reinf. Accl. Pipe LF	Pipe Pile Sleeves (30" Diameter) LF	Pipe Pile Sleeves (Other Diameters) LF	Pile Driving SY	Composite Piling LF	Metal Bridge Rail LF	Removal Structure Over Hill CY	Cast-in-place Concrete Piles LF	Splicing Cast-in-place Concrete Piles Ea	Cofferdams and Pumping LF	Class A Concrete CY	Underwater Concrete CY	1" Premolded Bituminous Expansion Joint Filler for Bridges SF	1/2" Premolded Bituminous Expansion Joint Filler for Bridges SF	1/4" Premolded Bituminous Expansion Joint Filler for Bridges SF	Ashlar Stone Masonry CY	Granite Copings for Masonry Retaining Walls CY	Removal of Sunken Barges L.S.	Conformed Steel Bars Lb.	Structural Steel Lb.	Spiral Shear Connector Bars Lb.	Copper Sulfate and Lacquer (30 gal.) Lb.	Portland Cement Bbl	Asphalt Cement Bbl	AASHO Control Pile (85) Ea	12 BPS3 Control Pile (85) Ea	Cast-in-place Concrete Test Pile (85) Ea	Cast-in-place Concrete Test Pile (67) Ea	Cast-in-place Concrete Test Pile (80) Ea	Cast-in-place Concrete Test Pile (85) Ea	Special 12 BPS3 Test Pile (67) Ea	Special 12 BPS3 Test Pile (80) Ea	Special 12 BPS3 Test Pile (85) Ea	Special 12 BPS3 Test Pile (85) Ea	Pile Loading Test (Pilot) Ea	Pile Loading Test Ea	Pile Loading Test (170 ton) Ea	Pile Loading Test (90 ton) Ea	Pile Loading Test (85 ton) Ea	Pile Loading Test (45 ton) Ea	Furnishing Steel Piles Lb.	Driving Steel Piles L.F.	Splicing Steel Piles Ea.	Scupbers Ea.	Gravel Fill C.Y.	Erosion Stone for Cofferdams Ton	Junction Box (18"x18"x10') Ea	2" Rigid Steel Conduit L.F.	3/4" Rigid Steel Conduit L.F.	4" S.C.C.M. Pipe L.F.
34+55.117	35+58.483	Multiple Span Composite Girder and Deck Bridge	3206	21332	1900	336	224	90	467	3586	2297	15300	200	3120	10554	5396	33	283	1120	380	760	249	L.S.	[illegible]	[illegible]	41333	3317	25014	4906	2	2	2	1	1	1	2	4	2			2	4		3	2	1	372648	62644	35	46	4823	2604	21	61	3185	100
42+67.500	43+25.500	Composite Beam Bridge	1407		1140	208		66	282	216	751				1438		22	162	49	30				229634	398035	2933	313	3083	534		3							1	1			2	2				403546	26482	15				8	20	336	84
Totals			4613	21332	3040	624	224	156	749	3802	3048	15300	200	3120	11992	5396	55	445	1269	410	760	249	L.S.	[illegible]	[illegible]	44267	3317	31038	5530	2	5	2	1	1	1	2	4	2	1	1	2	4	2	3	2	1	[illegible]	89148	50	46	4823	2604	29	81	3521	184

TOTALS

3554 01

325 05

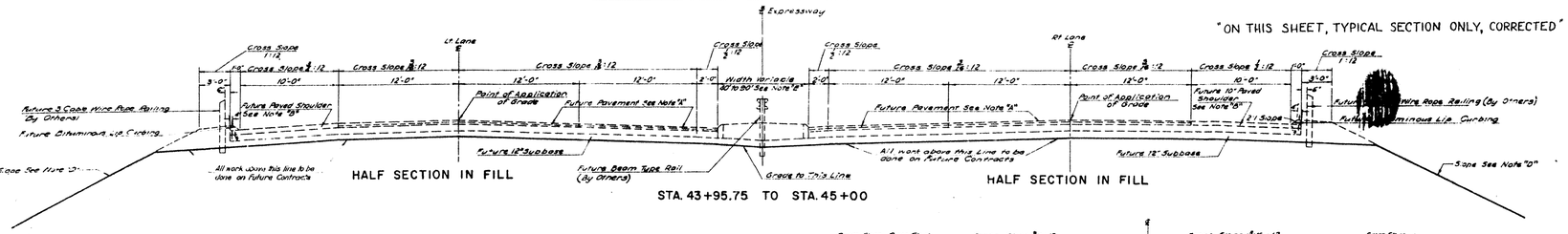
TYPICAL CROSS SECTIONS

NOT TO SCALE

PUB. ROAD SYS. NO.	STATE	TOWN	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven	[redacted] 4-01	1955		4	73

GREENWICH – KILLINGLY EXPRESSWAY

"ON THIS SHEET, TYPICAL SECTION ONLY, CORRECTED"



HALF SECTION IN FILL

STA. 43+95.75 TO STA. 45+00

HALF SECTION IN FILL

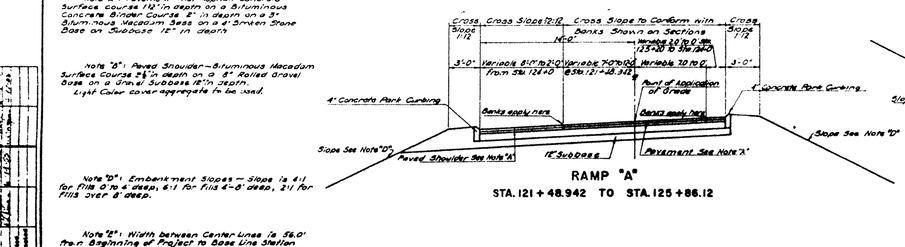
Note "A": Pavement – Hot Asphalt Concrete Surface Course 1½" in depth on a Bituminous Concrete Binder Course 2" in depth on a 3" Bituminous Macadam Base on a 6" Broken Stone Base on Subbase 12" in depth.

Note "B": Paved Shoulder – Bituminous Macadam Surface Course 2½" in depth on a 8" Rolled Gravel Base on a Gravel Subbase 18" in depth. Light Color cover aggregate to be used.

Note "D": Embankment Slopes – Slope is 4:1 for Fills 0' to 4' deep, 6:1 for Fills 4'–8' deep, 2:1 for Fills over 8' deep.

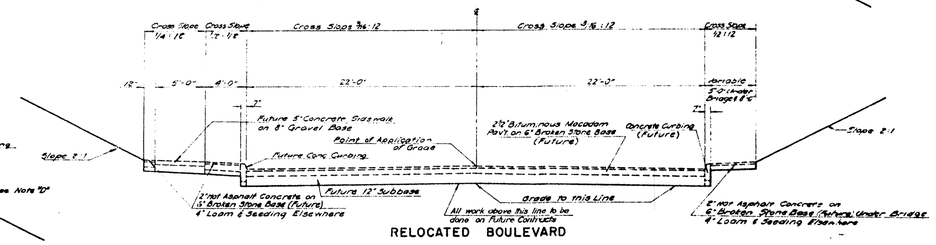
Note "E": Width between Center Lines is 56.0' from Beginning of Project to Base Line Station 37+04.354, thence to Base Line Station 42+53.775 the width transitions to 61.0 and continues at that width to the End of Project. Width of Median varies in accordance from 40.0' to 90.0'.

Note "F": Shoulder Width – Normal width of shoulder is 10'-0"
Sta. 23+90 to Sta. 24+55.40 Lt. & Rt. 4'-0" to 3'-0"
Sta. 24+55.40 to Sta. 35+98.17 Lt. & Rt. 3'-0"
Sta. 41+00 to Sta. 41+28 Rt. : 4'-0" to 3'-0"
Sta. 41+00 to Sta. 45+00 Rt. : 8'-0"



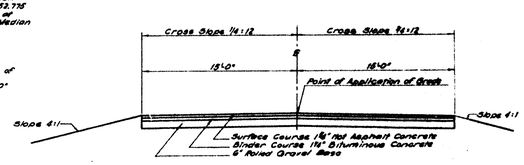
RAMP "A"

STA. 121+48.942 TO STA. 125+86.12

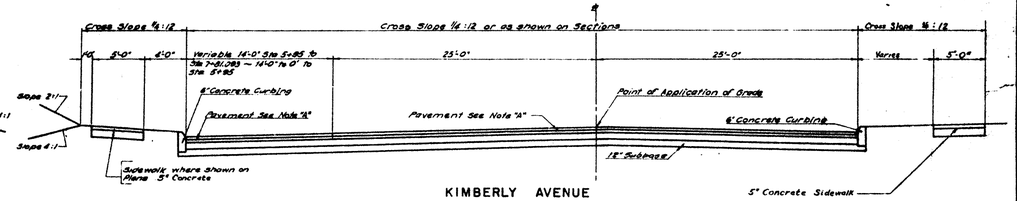


RELOCATED BOULEVARD

STA. 325+14 TO STA. 329+65.312

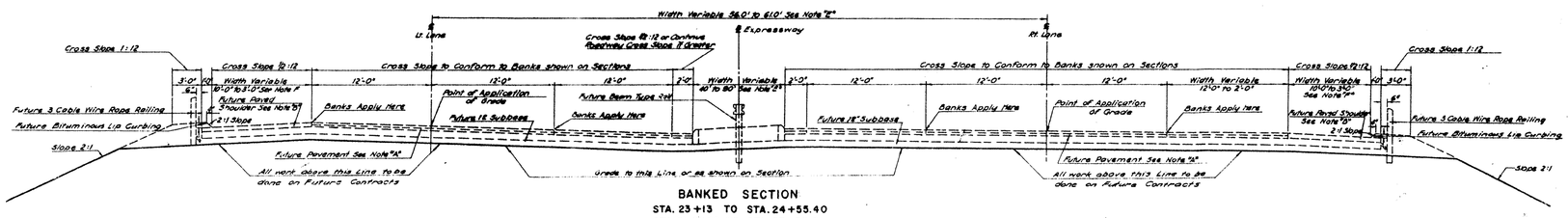


KIMBERLY AVENUE DETOUR



KIMBERLY AVENUE

STA. 4+16 TO STA. 10+42



BANKED SECTION

STA. 23+13 TO STA. 24+55.40
STA. 35+98.45 TO STA. 37+83.5
STA. 41+17 TO STA. 42+67.25

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316A 01

320 05

PUB. ROAD SUV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		3164-01	1965		5	73

GREENWICH-KILLINGLY EXPRESSWAY

Sta 24+55.117 To Sta 35+98.453 Multiple Span Composite Girder and Beam Bridge Length 1143.25' (See Sheets 17-43)

Base Line Curve Data
Δ = 20° 47' 09.3"
D = 3° - 0'
T = 350.277'
L = 692.355'
R = 1909.860'
E = 31.856'

BEGINNING OF PROJECT
STA. 23+00

BEGINNING OF SECTION 16A

Baseline of Construction

Old Railroad Bed

8" ACCMP U drain & Aqua Drain at Base Line

8" ACCMP U drain

8" ACCMP U drain

8" ACCMP U drain

8" ACCMP U drain

8" ACCMP U drain

8" ACCMP U drain

8" ACCMP U drain

To Greenwich

S 32° 41' 08.2" E

℄ Right Lane

℄ Left Lane

Base Line

Approx. Slope Limit

13" ACCMP U drain Temporary on slope

Shoulder Varies

Std. Paved Ditch

Chain link fence (by others)

High water line (7-18-38)

Removal of Subway Bridge Included in this Contract

6" Broken Stone

Limits of Sandwells

N 48 07' 53.8"
E 34 709.85

Drainage basins Sta 24+55.117

℄ Pier #1 Sta 25+45.50

℄ Pier #2 Sta 28+45.40

℄ Pier #3 Sta 31+31.50

℄ Pier #4 Sta 33+45.85

N 85° 34' 00.0" E

Remains of Bridge

Chain link fence (by others)

To Hillhouse

Remains of Old Bridge (Demolished)

Approx. Slope Limit

Shoulder Varies

Foundation

Cor. Pipe

Bottom

Top of Bank

Approx. Bottom of Slope

Water Pipe

30" Oak

Approx. location of 8" ACCMP U drain

Limit of Sandwells

8" Outlet

Open Ditch

18" ACCMP U drain Outlet

Approx. Baseline of Construction

WEST HAVEN TOWN LINE
NEW HAVEN (Approx.) LINE

WEST RIVER

0163

GENERAL CONSTRUCTION NOTES

Grade and surface all intersecting roads, drives and banquets if, where and as directed by the Engineer.
Remove all existing drainage culverts where and as directed.
All proposed drainage may be varied by the Engineer to fit conditions found in the field.
If so directed, all underdrain, gravel fill and subbase may be varied as to depth, length and location, according to conditions found in the field or they may be entirely eliminated.

Where buildings have been removed to clear the way for Construction, or where old foundations and cellars or other holes exist, the removal as directed of the cellar walls and other concrete and masonry to two feet below the directed finished grading and the filling of the cellars or other holes will be paid for as per Section 2.1.c of the Standard Specifications.
The Contractor will maintain through and local vehicular and Pedestrian Traffic at all times as approved and as ordered by the Engineer.

C. W. BLAKESLEE & SONS, INC.

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316 01

320 03

PLAN NOTE BOOK NO.

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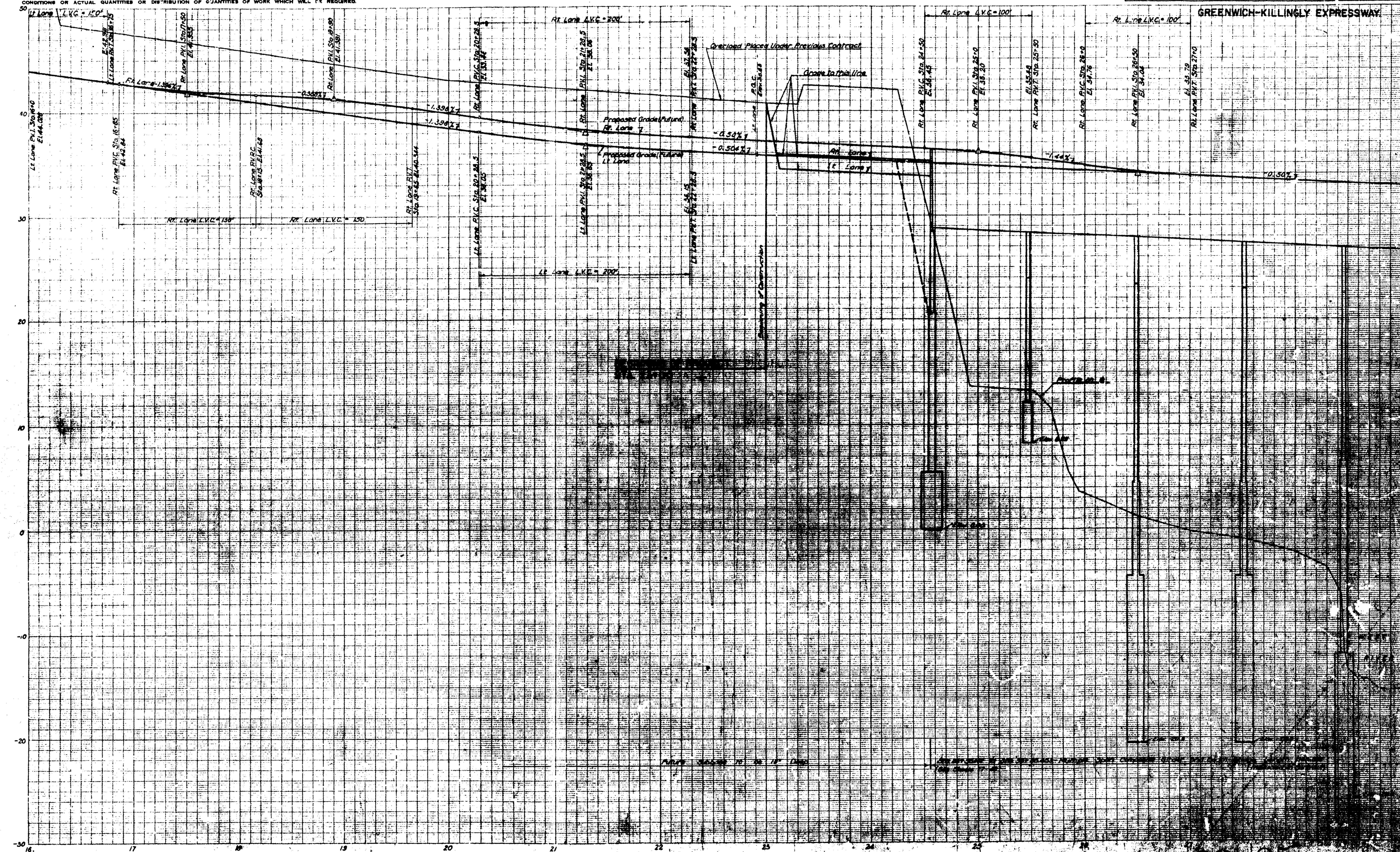
FORM NO. ENG. 12 ED 3-49

CONNECTICUT TURNPIKE

PUB. ROAD DIV. NO.	STATE	TOWN	FED AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		34-1-01	1955		6	73

GREENWICH-KILLINGLY EXPRESSWAY



PROFILE

316A 01

320 05

FORM NO. 6MB 11 ED. 2-63

PUB. ROADS DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		S.B.A.-01	1963		7	73

GREENWICH- KILLINGLY EXPRESSWAY.

Sta 24+35.117 to Sta 35+53.453 - Multiple Span Composite Girder and Beam Bridge Length 1143.336 (See Sheets 17-43)

THE HOWARD CO.

RIVER

WEST HAVEN TOWN
NEW HAVEN (Approx.) LINE

WEST

END CONSTRUCTION STA. 101+32

END CONSTRUCTION STA. 38+00

END CONSTRUCTION STA. 438+00

BEGIN CONSTRUCTION STA. 41+00

BEGIN CONSTRUCTION STA. 241+00

BEGIN CONSTRUCTION STA. 4+31

TEMPORARY DETOUR

Note: For Information of Relocation of Water Main on Kimberly Ave. See Sheet 46

Note: For Alignment & Further Details of Kimberly Ave. Detour See Sheet 46

THE ALLIED LUMBER & PLUMBING SUPPLY CO. INC.

Taking Line (See Sheets)

Proposed R. Building Line

Base Line

To Greenwich

To Killingly

Approx. Slope Limit

Limits of Construction

Limits of Sidewalk

Chain link fence (by others)

Concrete Sidewalk

Future Concrete Park Curbing

Construct Drainage Ditch

Ditch Excavated

Grade to drain 4" Loam & Seeding

Remove 16" A.C.C.M.P.

Remove Existing 16" C.M.P.

Standard Paved Ditch

Tar Oil Treat Earth Stabilization

Standard Bituminous Concrete Sidewalk

Pavement included in this Contract

5' Sidewalk included in this Contract

Cutting Sign

Quarter Lumber Storage

Lumber Storage

Shed

Garage

Cinder Block & Frame

Parking Area

Bluestone

Lumber Yard

Gravel

Grass

Shoulder

Curb

Gutter

Sandwalk

Base Line

Heat Exch. Drain

Hatch

Match

Note: For Information of Relocation of Water Main on Kimberly Ave. See Sheet 46

A-1 Curve Data
Δ = 153°-00'-01.5"
D = 29°-12'-56.8"
T = 1711.434'
L = 656.858'
R = 195.000'

A-2 Curve Data
Δ = 29°-44'-12.6"
D = 20°-44'-17.9"
T = 230.347'
L = 384.459'
R = 276.280'

A-3 Curve Data
Δ = 26°-27'-00"
D = 11°-07'-32.4"
T = 116.178'
L = 224.311'
R = 515.000'

B-1 Curve Data
Δ = 67°-00'-00"
D = 7°-03'-00.2"
T = 71.102'
L = 141.843'
R = 812.700'

B-2 Curve Data
Δ = 144°-43'-37.4"
D = 21°-00'-39.4"
T = 104.828'
L = 513.637'
R = 255.262

B-3 Curve Data
Δ = 24°-30'-36.7"
D = 3°-43'-51.6"
T = 330.446'
L = 445.615'
R = 1480.000

B-4 Curve Data
Δ = 30°-51'-21.7"
D = 14°-08'-43.6"
T = 111.769
L = 218.108
R = 405.000

C-3 Curve Data
Δ = 52°-38'-04.3"
D = 17°-37'-46.1"
T = 161.940'
L = 310.000'
R = 325.000'

C-4 & D-4 Curve Data
Δ = 23°-33'-45.5"
D = 14°-08'-43.6"
T = 84.564'
L = 166.332
R = 405.000

D-3 Curve Data
Δ = 52°-38'-04.3"
D = 17°-37'-46.1"
T = 161.940'
L = 310.000'
R = 325.000'

E-1 Curve Data
Δ = 15°-45'-00.4"
D = 5°-38'-38.5"
T = 126.614'
L = 252.000'
R = 1045.000'

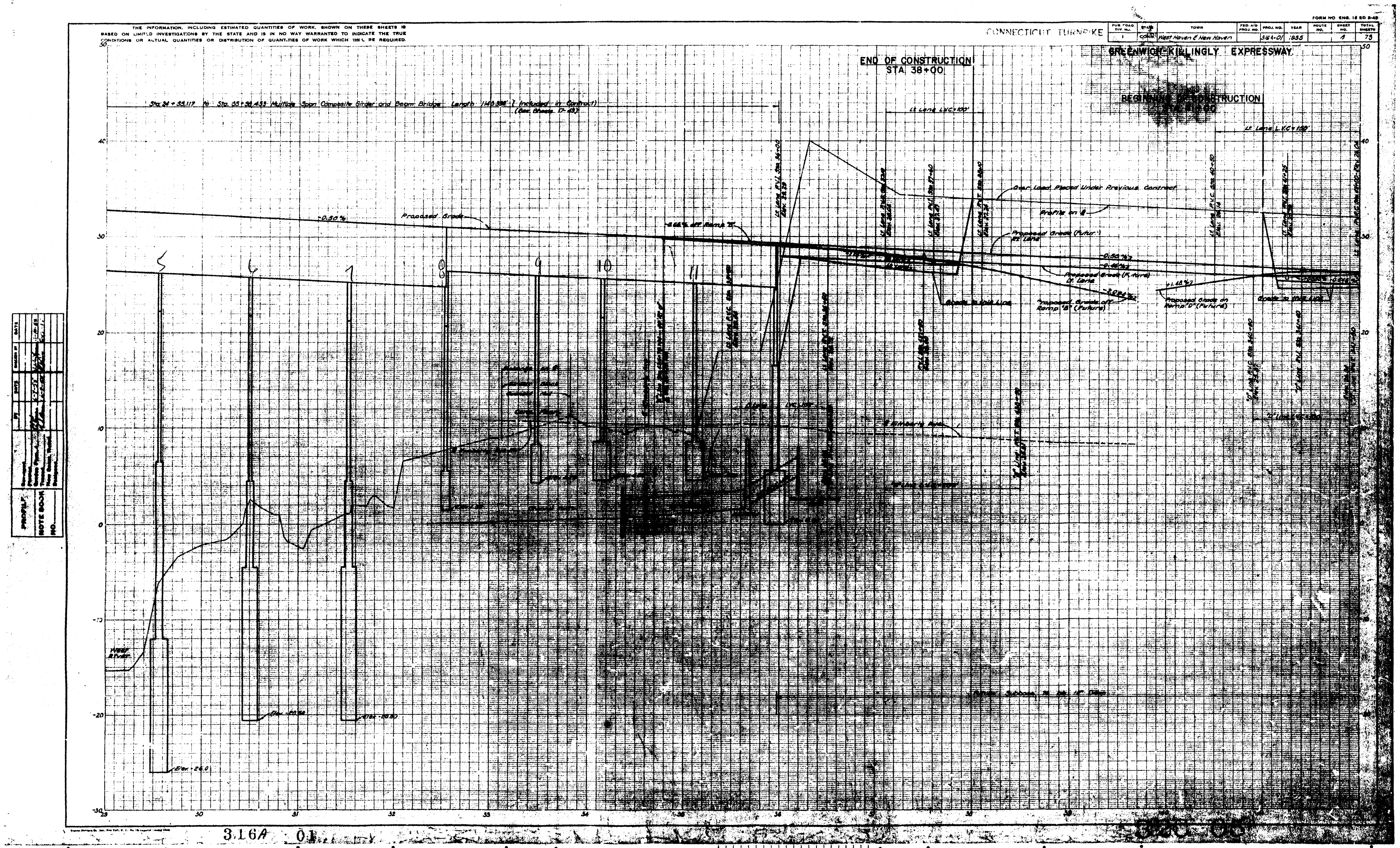
E-2 Curve Data
Δ = 112°-57'-13.2"
D = 15°-54'-55.3"
T = 543.443
L = 705.723'
R = 360.002'

E-3 Curve Data
Δ = 30°-51'-21.7"
D = 14°-08'-43.6"
T = 111.769
L = 218.108
R = 405.000

1. THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE, AND IS IN NO WAY REPRESENTED TO INDICATE THE TYPE, CONDITIONS OR ACTUAL QUANTITIES ON THE SITE. NO SHORTAGE OF THE SAME THINGS SHALL BE ENTITLED.

316# 01

320 03


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 TURNPIKE
FORM NO. ENG. 12 SD 3-48
PUB. ROAD DIV. NO. 1
STATE CONN.
TOWN West Haven & New Haven
PROJ. NO. 3164-01
YEAR 1955
SHEET NO. 8
TOTAL SHEETS 73
GREENWICH-KILLINGLY EXPRESSWAY
END OF CONSTRUCTION
STA. 38+00
BEGINNING OF CONSTRUCTION
Sta. 24+53.117 to Sta. 35+96.453 Multiple Span Composite Girder and Beam Bridge Length 1143.336' (Included in Contract)
(See Sheets 17-43)
Lt. Lane L.V.C.=100'
Lt. Lane L.V.C.=150'
-0.50%
Proposed Grade
-0.66% off Ramp "E"
Over Load Placed Under Previous Contract
Profile on ℄
Proposed Grade (Future) Rt. Lane
-0.50%
-0.46%
Proposed Grade (Future) Lt. Lane
-2.084%
+1.48%
Proposed Grade off Ramp "B" (Future)
Proposed Grade on Ramp "D" (Future)
Grade to this Line
Grade to this Line
"D" Line L.V.C.=200'
West River
Elev. -26.0
Elev. -20.50
Elev. -20.50
5
6
7
8
9
10
11
PROFILE
NOTE BOOK
NO.
3.16A 01

GREENWICH-KILLINGLY EXPRESSWAY.
PUB. ROAD SYS. NO. | STATE | TOWN | FED. AID PROJ. NO. | PROJ. NO. | YEAR | ROUTE NO. | SHEET NO. | TOTAL SHEETS
1 | CONN. | West Haven & New Haven | 116A-01 | 1955 | | 3 | 73
Boulevard Relocation Curve Data
E-2 Curve Data
H-1 Curve Data
H-2 Curve Data
"E" Line
"H" Line
"F" Line
RELOCATED
Composite Beam Bridge
Length = 128.00 (See Sheet 4 to 4)
CITY OF NEW HAVEN
Highway Line
FIFTH STREET
AVENUE
To Greenwich
To Killingly
BEGIN CONSTRUCTION BOULEVARD.
Shoulder
Future Sidewalk
Bridge Begin
Bridge End
ROADWAY
GREENWICH
BOULEVARD
TEMPORARY
Bitum. Macadam
END OF CONSTRUCTION BOULEVARD.
END OF PROJECT
STA. 45+00.0
"C" & "D" Lines
"D" Line
"G" Line
C-4 & D-4 Curve Data
Approximate Slope Limits
0164
316A 01
320 05
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 CONSTRUCTION OF SUBSURFACE WORK WHICH WILL BE ENCOUNTERED.

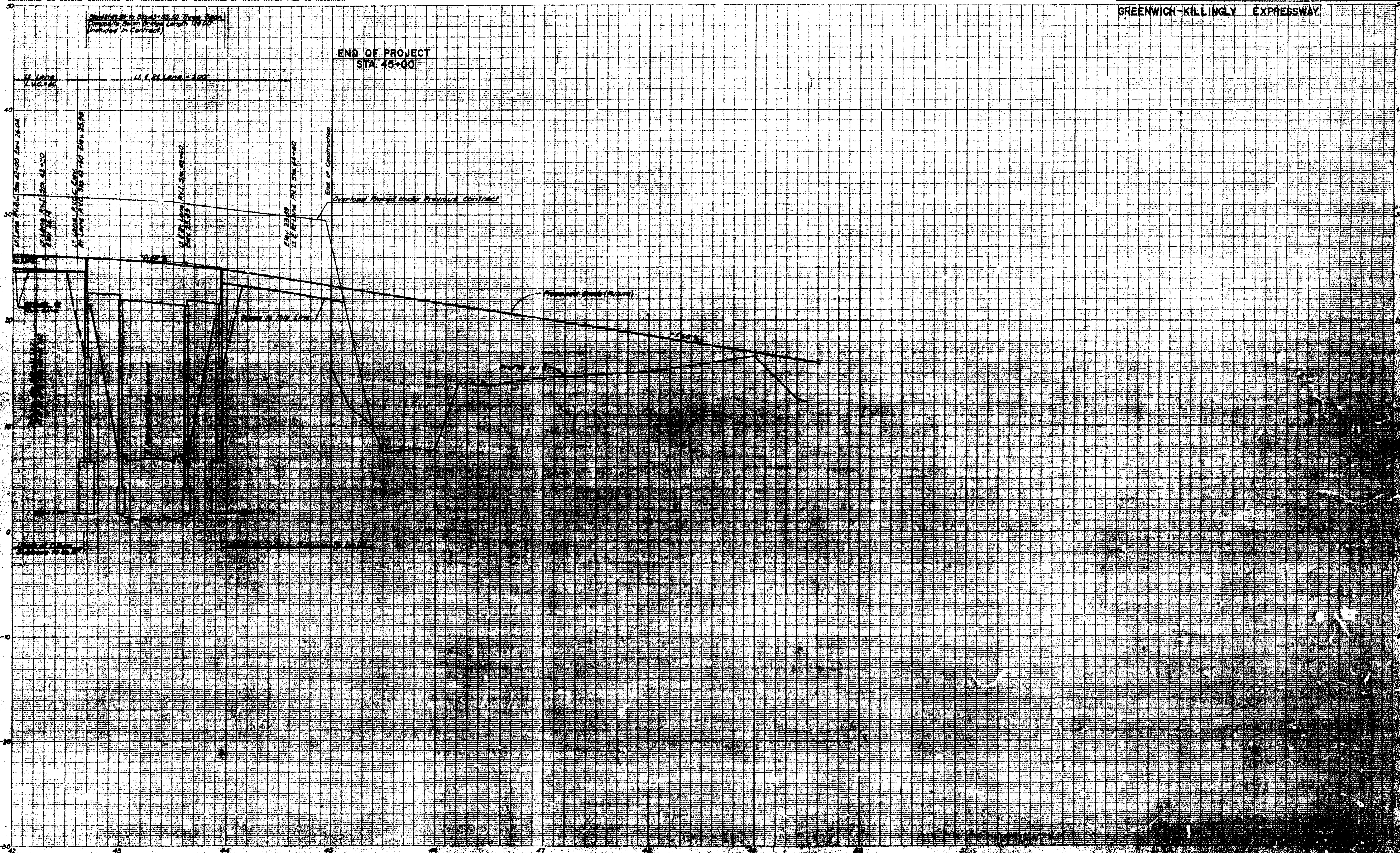
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT TURNPIKE

FORM NO. ENG. 12 RD 4-46

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		10	73

GREENWICH-KILLINGLY EXPRESSWAY



3166 01

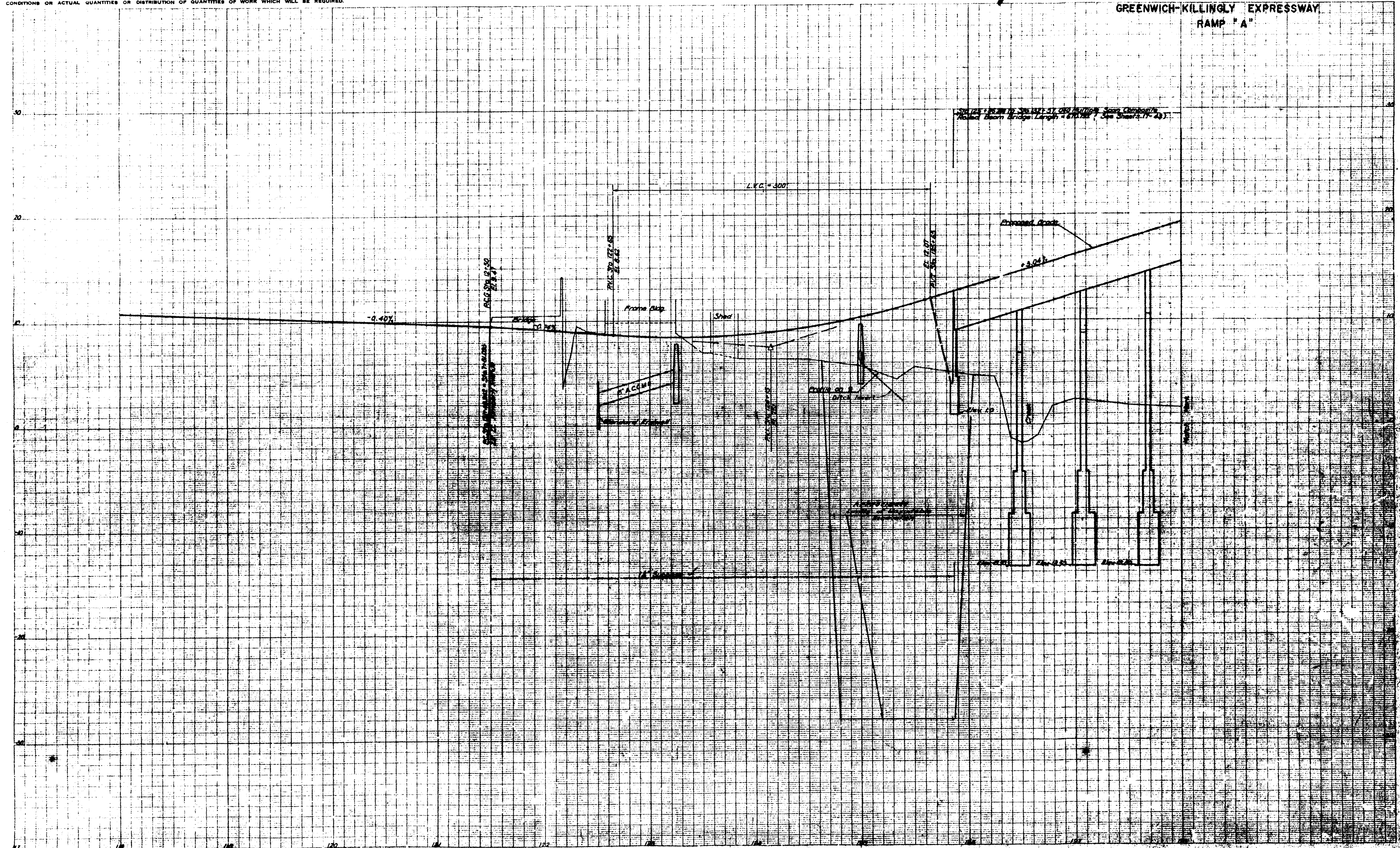
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT TURNPIKE

FORM NO. ENG. 12 ED 2-49

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		11	73

GREENWICH-KILLINGLY EXPRESSWAY
RAMP "A"



PROFILE		BY	DATE	CHECKED BY	DATE
NOTE BOOK	Surveyed				
NO.	Plotted				
	Grades Proved		6-9-55		5-10-55
	Traced				
	Hour Check				
	Designed				

316A 01

320 05

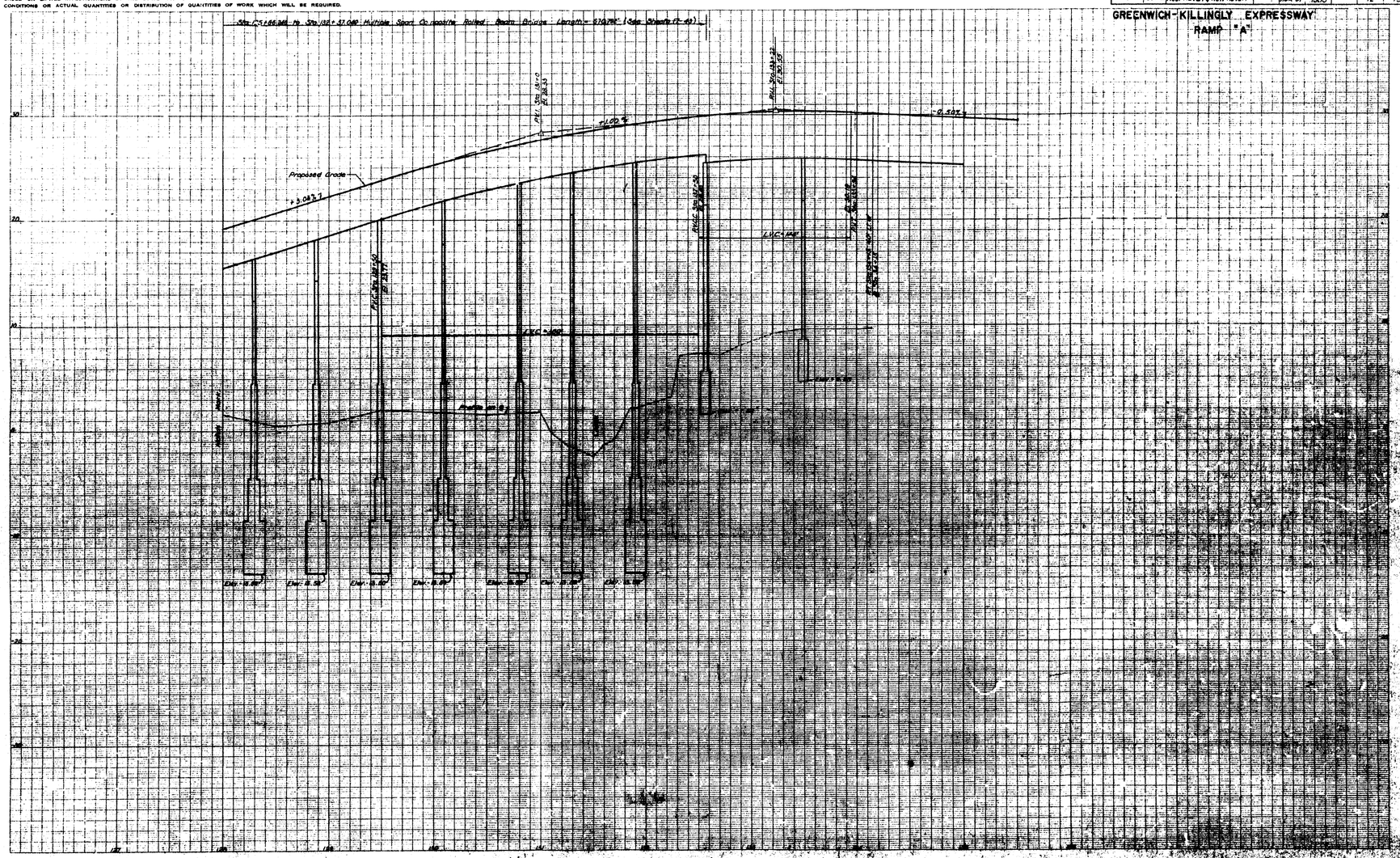
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT TURNPIKE

FORM NO. ENG. 13 ED 3-48

PLB ROAD DIV. NO.	STATE	TOWN	FED AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		12	73

GREENWICH-KILLINGLY EXPRESSWAY
RAMP "A"



3164 03

320 05

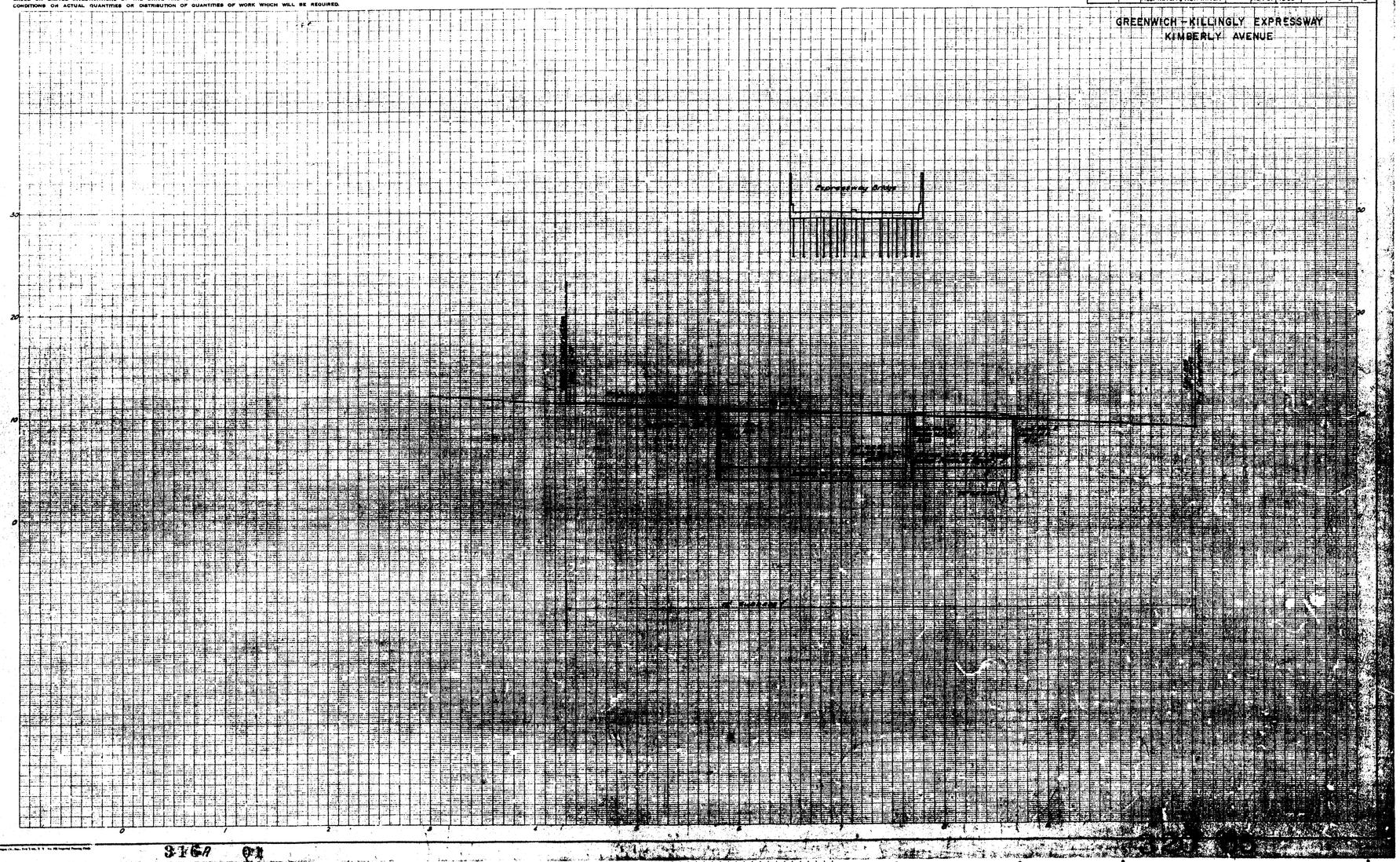
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT TURNPIKE

FORM NO. ENG. 12 E2 9-6P

FOR ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		13	73

GREENWICH - KILLINGLY EXPRESSWAY
KIMBERLY AVENUE



316A 01

D C B A A B C D

1 2 3 4 4 3 2 1

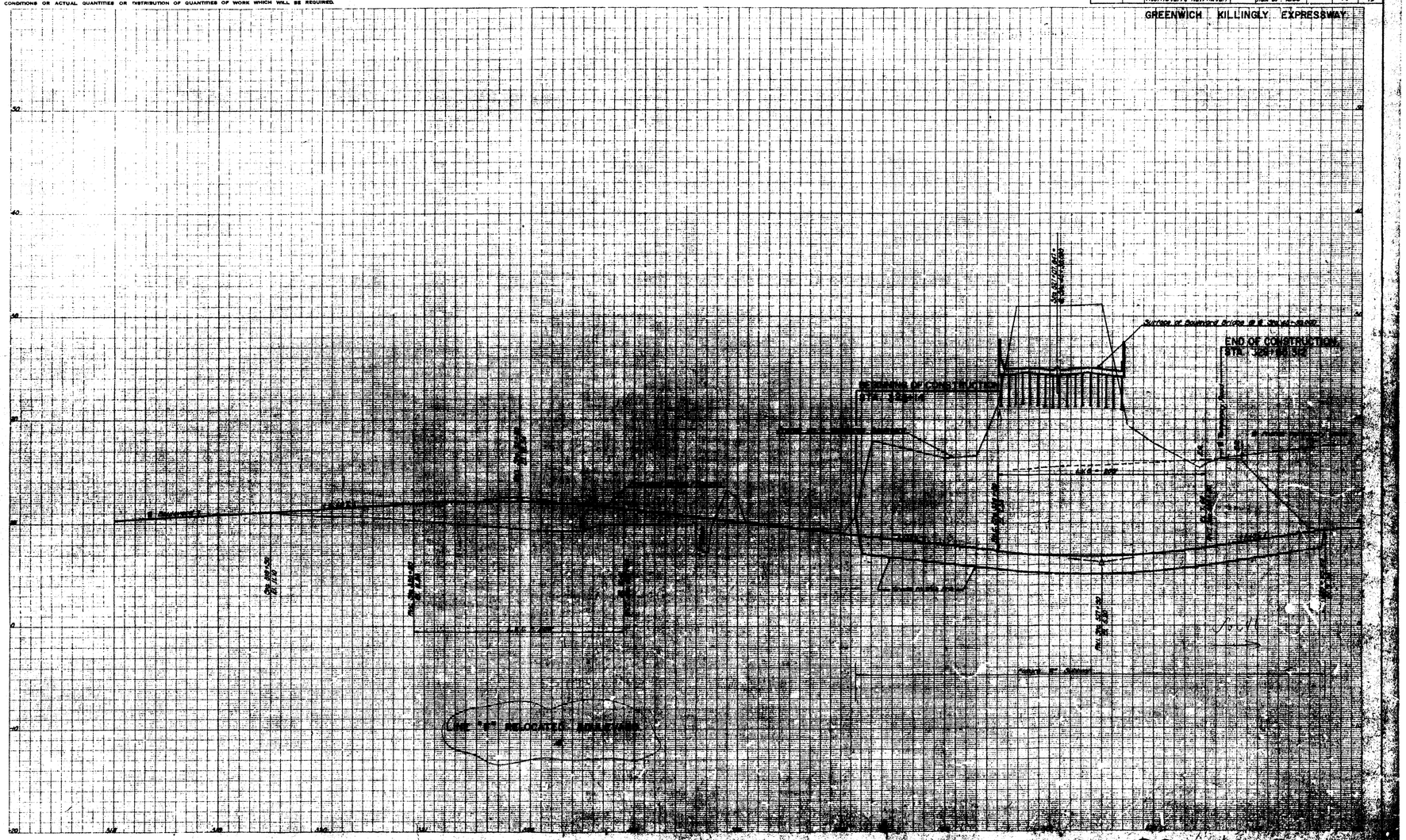
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

CONNECTICUT TURNPIKE

PLS ROAD CIL. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1965		14	73

FORM NO. ENG. 18 [illegible]

GREENWICH KILLINGLY EXPRESSWAY



PROFILE		BY	DATE	PR. CO. BY	DATE
NOTE BOOK NO.	Surveyed				
	Plotted				
	Grade Checked				
	Traced				
	Plan Check Rec'd				
	Reviewed				

316A 01

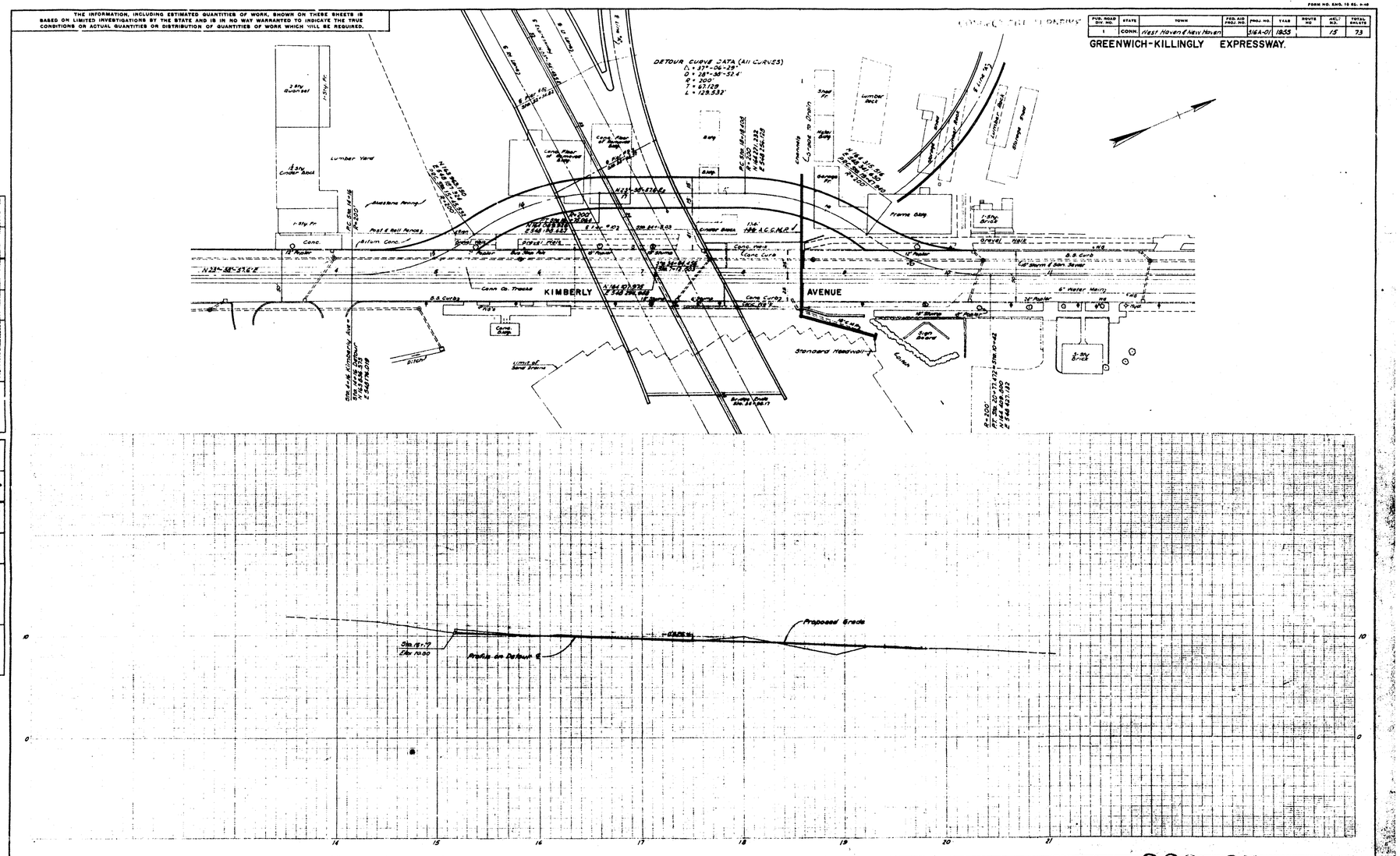
320 05

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.

FORM NO. ENG. 10 REV. 4-48

FUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	HELT NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		15	73

GREENWICH-KILLINGLY EXPRESSWAY.



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

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

316A 01

320 05

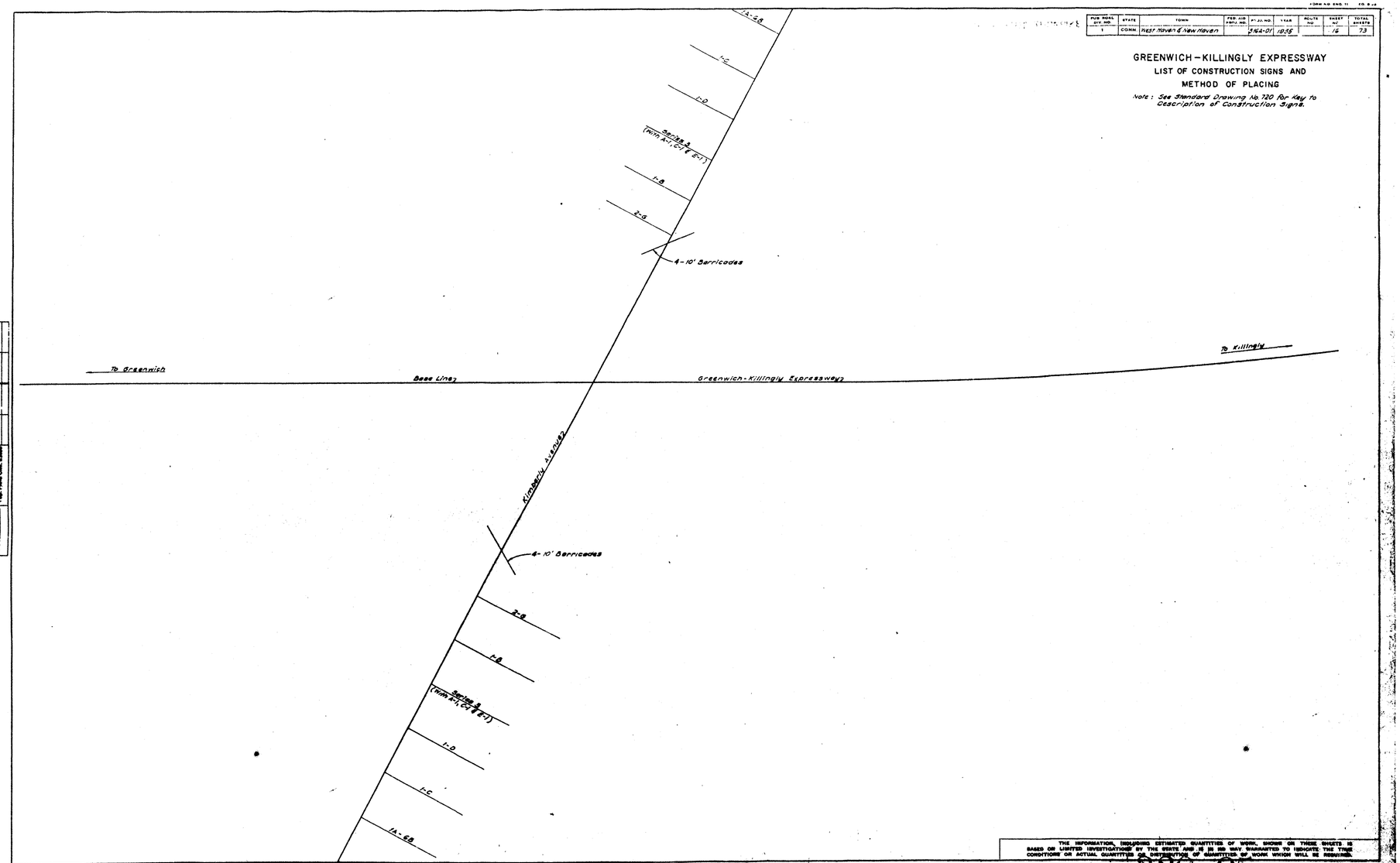
15

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		16	73

GREENWICH-KILLINGLY EXPRESSWAY

LIST OF CONSTRUCTION SIGNS AND METHOD OF PLACING

Note: See Standard Drawing No. 720 for Key to Description of Construction Signs.



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.

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

316A 01

320 05

16

FUN. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		17	73

GENERAL NOTES

Specifications: Connecticut State Highway Department Specification Form 608.
Design Specifications: A.A.S.H.O. 1953 as modified by Connecticut State Highway Department.

Specifications:

Live Loading: H20-S16-44

Composite Design: Superstructure designed for composite action for live load and superimposed dead load. For live load n = 10 and for superimposed dead load including future wearing surface of 25 p.s.f. n = 30.

Construction of deck to be done without the use of temporary supports under the steel girders and beams.

Concrete shall have a minimum compressive strength of 3000 p.s.i. after 28 days and shall be classified as follows:

Class 'A' concrete to be used in footings and substructures.
Class 'A' plus 10% additional cement to be used in underwater concrete.
Class 'A' air-entrained concrete to be used in bridge deck, safety walk and parapet.
Class 'C' concrete to be used in cast-in-place concrete piles.

Cost of furnishing and placing joint seal and 3" pile tar paper shall be paid for under concrete item.

All corners or exposed edges of concrete shall be chamfered 1" unless otherwise dimensioned.

Reinforcing bars under bearing surfaces shall be placed to clear anchor bolts.

Unless otherwise shown on the plans lengths of splices of reinforcing bars shall be as follows:

20 diameters for bars in slabs, longitudinal bars in pier shafts and longitudinal bars in abutments and wingwalls except in heels and under bridge seats where they shall be 35 diameters.
33 diameters for all others.

Unless otherwise shown on the plans the minimum cover of reinforcing bars shall be as follows:

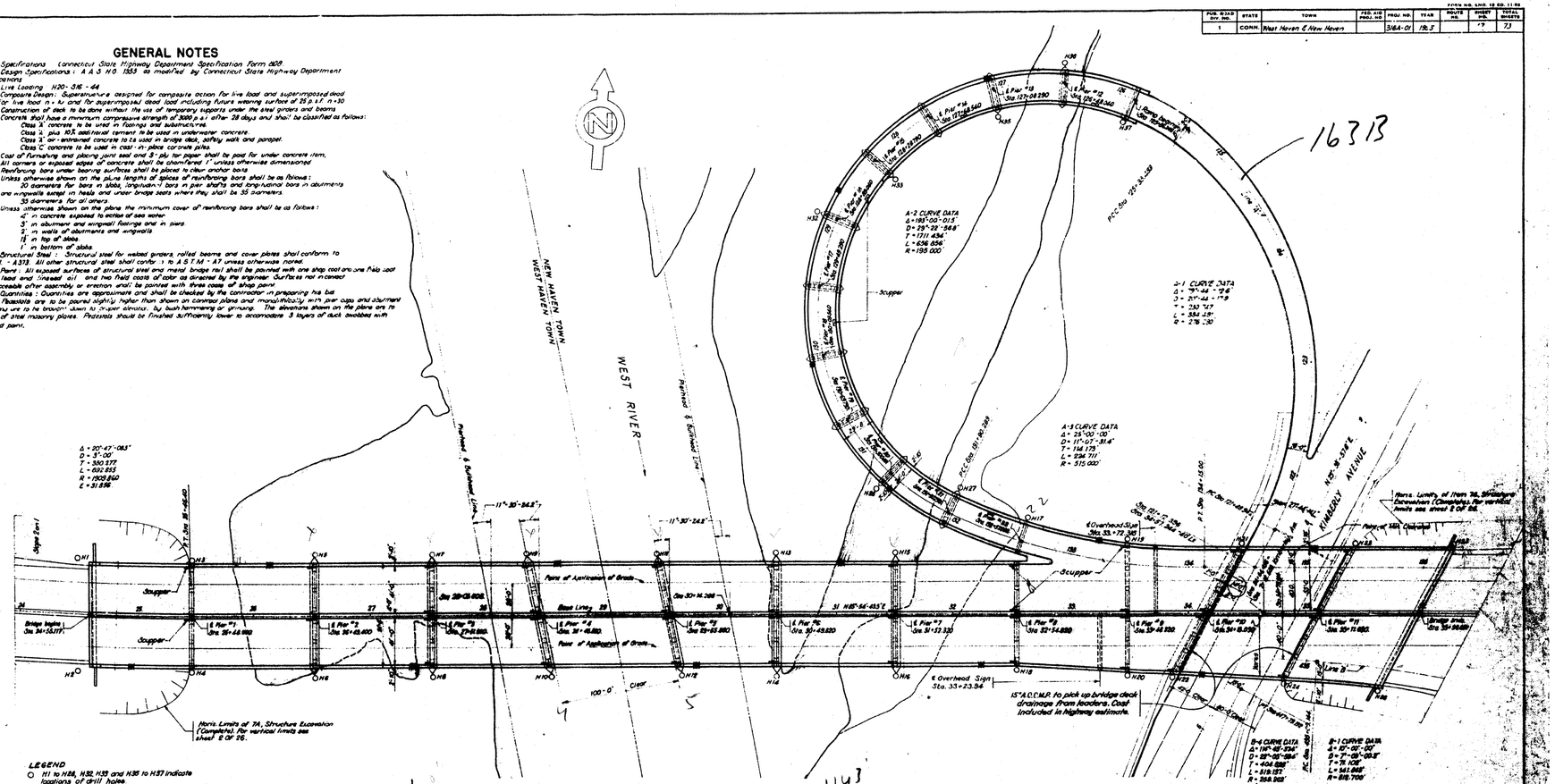
4" in concrete exposed to action of sea water.
3" in abutment and wingwall footings and in piers.
2" in walls of abutments and wingwalls.
1½" in top of slabs.
1" in bottom of slabs.

Structural Steel: Structural steel for welded girders, rolled beams and cover plates shall conform to A.S.T.M. - A373. All other structural steel shall conform to A.S.T.M. - A7 unless otherwise noted.

Paint: All exposed surfaces of structural steel and metal bridge rail shall be painted with one shop coat and one field coat of red lead and linseed oil and two field coats of color as directed by the engineer. Surfaces not in contact but inaccessible after assembly or erection shall be painted with three coats of shop paint.

Quantities: Quantities are approximate and shall be checked by the contractor in preparing his bid.

Pedestals are to be poured slightly higher than shown on contract plans and monolithically with pier caps and abutment stems and are to be brought down to proper elevation by bush hammering or grinding. The elevations shown on the plans are to bottom of steel masonry plates. Pedestals should be finished sufficiently lower to accomodate 3 layers of duck swabbed with red-lead paint.



LEGEND
○ H1 to H28, H32, H33 and H35 to H37 indicate locations of drill holes.
■ Lighting Standard
▭ Scupper.

Item "Cofferdam and Pumping" to be used for Piers 2-7, and Piers 19-21.
Item 7B "Excavation Complete for Abutment Columns" to be used for West and East Abutments.
Item 7 Structure Excavation (Complete) to be used at all other locations.

PLAN
Scale 1" = 40'

Date Started: 5-10-56
Date Completed: 12-6-57
Final Length: 1900.00'
Total Cost: $4,400,190.57

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

GENERAL PLAN

DESIGNED BY KING AND SAVARIS

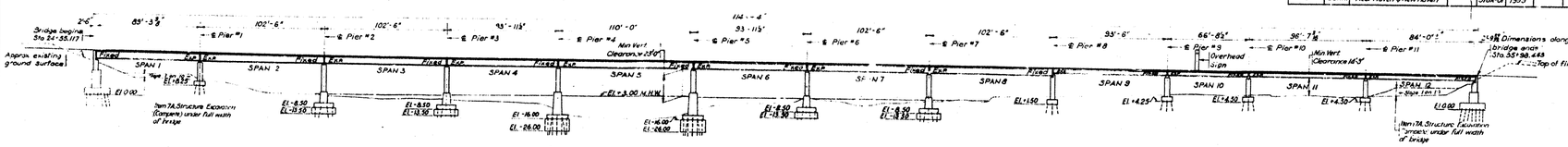
316A 01

0163A.

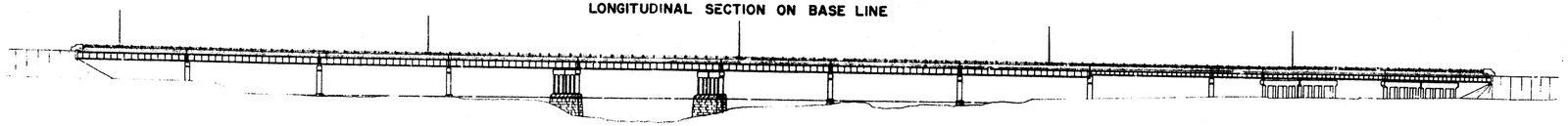
163

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		3164-01	1955		18	73

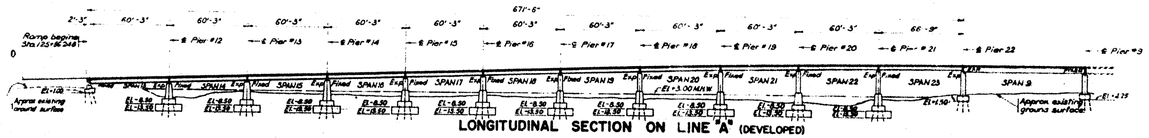
FORM NO. BRG. 13 ED. 11-54



LONGITUDINAL SECTION ON BASE LINE



SOUTH ELEVATION



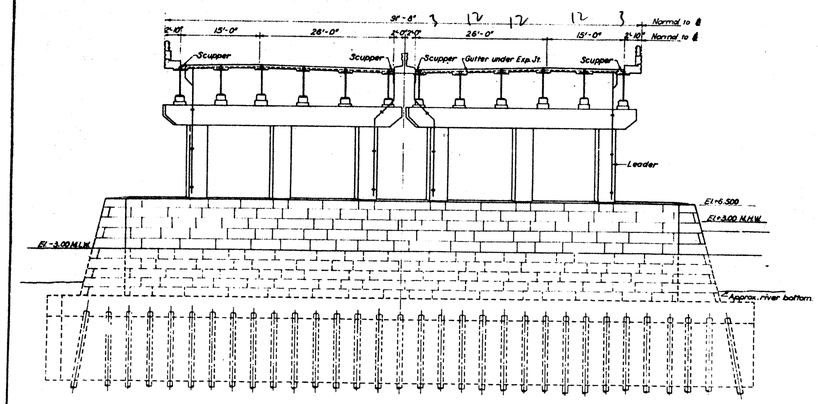
LONGITUDINAL SECTION ON LINE "A" (DEVELOPED)

WEST ELEVATION (DEVELOPED)

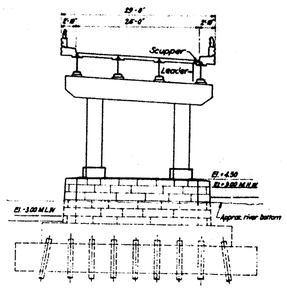
4/5 × 6500 = 5200 CY

5200 CY/13 = 400 CY/unit

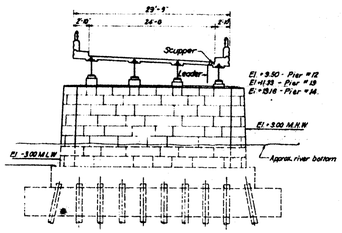
1.00 × 300 = 120,000
65
600
600



PIERS 4 & 5
Scale 1"=10'-0"



PIERS 15–21
Scale 1"=10'-0"



PIERS 12–14
Scale 1"=10'-0"

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

ELEVATIONS AND SECTIONS

DESIGNED BY KING AND GAVARIS
SCALES 1"=40' and as noted.
MADE BY D.C.G. & L.A. DATE 7-21-55
CHECKED BY M.A.S. DATE 8-10-55
APPROVED [illegible] DATE 11-20-55

PROJECT NO. 3164-01
BRIDGE NO. 6 & 28

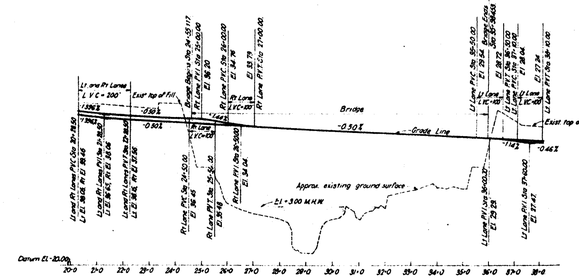
316A 01

320 05

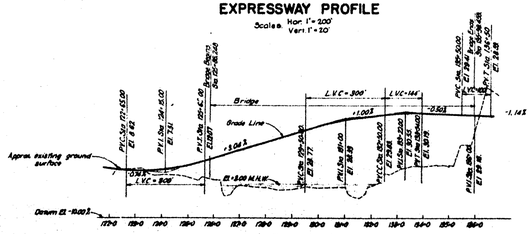
18

D C B A 1 5 10 A B C D

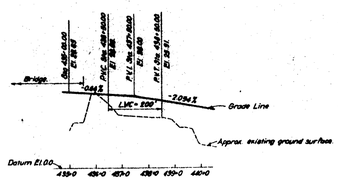
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	REV'N NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		19	73



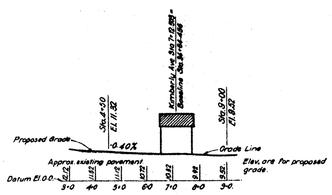
EXPRESSWAY PROFILE
Scales Hor. 1" = 200' Vert. 1" = 10'



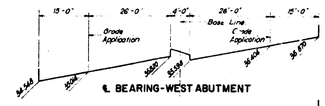
LINE "A" PROFILE
Scales Hor. 1" = 100' Vert. 1" = 10'

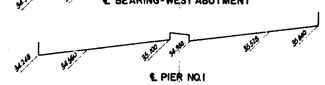


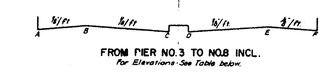
LINE "B" PROFILE
Scales Hor. 1" = 200' Vert. 1" = 20'



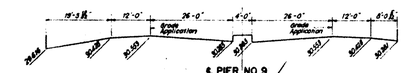
KIMBERLY AVENUE PROFILE
Scales Hor. 1" = 100' Vert. 1" = 20'

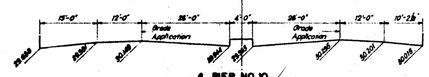


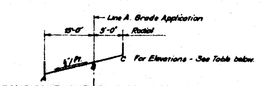




FROM PIER NO.3 TO NO.8 INCL.
For Elevations - See Table below.







RAMP ABUTMENT TO PIER NO.22 INCL.

Elevations shown are along ℄ Piers or bearings.
Sections looking in direction of increasing stations
All dimensions are normal to baseline.

looking up station

DECK CROSS SECTIONS

ELEVATION AT POINTS	PIER NO. 3	4	5	6	7	8	Ramp Abutm.	12	13	14	15	16	17	18	19	20	21	22
A	33.274	32.849	32.399	31.886	31.372	30.889	12.198	13.898	15.600	17.638	19.408	21.293	23.118	24.834	26.239	27.515	28.488	29.172
B	33.580	33.089	32.539	32.040	31.539	31.048	13.284	14.398	15.478	16.558	20.089	21.901	23.312	24.480	26.104	28.141	28.118	29.088
C	33.260	32.788	32.243	31.771	31.288	30.748	15.198	14.989	15.801	16.653	20.446	22.196	24.198	25.880	27.289	28.518	29.487	30.239
D	33.260	32.789	32.239	31.771	31.258	30.748	—	—	—	—	—	—	—	—	—	—	—	—
E	33.330	33.033	32.483	32.081	31.558	31.016	—	—	—	—	—	—	—	—	—	—	—	—
F	33.374	32.861	32.311	31.888	31.372	30.889	—	—	—	—	—	—	—	—	—	—	—	—

QUANTITIES

ITEM	UNIT	QUANTITY
Structure Excavation (Complete)	c.y.	3108
Structure Excavation (excluding Cofferdam and Pumping)	c.y.	21360
Structure Excavation Complete for Abutment Columns	c.y.	1900
6" Perf. A.C.C.M. Pipe	l.f.	336
Pipe Pile Sleeves (30" Diameter)	l.f.	224
Pipe Pile Sleeves (24" Diameter)	l.f.	90
Dampproofing	s.y.	467
Metal Bridge Rail	l.f.	5348
Pervious Structure Backfill	c.y.	2297
Cast-in-place Concrete Piles	l.f.	88840
Splicing Cast-in-place Concrete Piles	ea.	200
Cofferdams and Pumping	l.f.	5120
Class "A" Concrete	c.y.	10554
Underwater Concrete	c.y.	5380
½" Premoulded Bituminous Joint Filler for Bridges	s.f.	38
¾" Premoulded Bituminous Joint Filler for Bridges	s.f.	233
⅞" Premoulded Bituminous Joint Filler for Bridges	s.f.	1120
1" Premoulded Bituminous Joint Filler for Bridges	s.f.	380
Ashlar Stone Masonry	c.y.	258
Granite Copstone for Masonry Faced Piers	c.y.	349
Removal of Sunken Barge	l.s.	1.5
Deformed Steel Bars	lbs.	1414384
Structural Steel	lbs.	8078066
Special Bridge Connectors & Bars	lbs.	411898
Copper Burners and Leaders (10 oz.)	lbs.	2917
Portland Cement	bbl.	22696
Natural Cement	bbl.	4988
Gravel Fill	c.y.	4229
Broken Stone for Cofferdams	ton	2804
Cast-in-place Concrete Test Pile (55)	ea.	2
Cast-in-place Concrete Test Pile (67)	ea.	1
Cast-in-place Concrete Test Pile (90)	ea.	1
Cast-in-place Concrete Central Pile (88)	ea.	1
Pile Loading Test (80 ton)	ea.	2
Pile Loading Test (95 ton)	ea.	1
Pile Loading Test (108 ton)	ea.	3
Pile Copping Test (156 ton)	ea.	2
Pile Loading Test (116 ton)	ea.	4
Soaking	ea.	38
Furnishing Steel Piles	lbs.	3,755,616
Driving Steel Piles	l.f.	63888
Splicing Steel Piles	ea.	58
14 BP73 Central Pile (85')	ea.	2
12 BP53 Central Pile (55')	ea.	2
Special 14 BP73 Test Pile (90')	ea.	2
Special 14 BP73 Test Pile (84')	ea.	4
Special 12 BP53 Test Pile (30')	ea.	2
Junction Box (18" x 18" x 10")	ea.	21
2" Rigid Steel Conduit	l.f.	61
2½" Rigid Steel Conduit	l.f.	3183
6" A.C.C.M. Pipe	l.f.	100

10,000

7000

6500

CONCRETE DISTRIBUTION

Footings	2378 c.y.
Substructure	3065 c.y.
Superstructure	4116 c.y.
Total	10554 c.y.

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

PROFILES—DECK CROSS SECTIONS

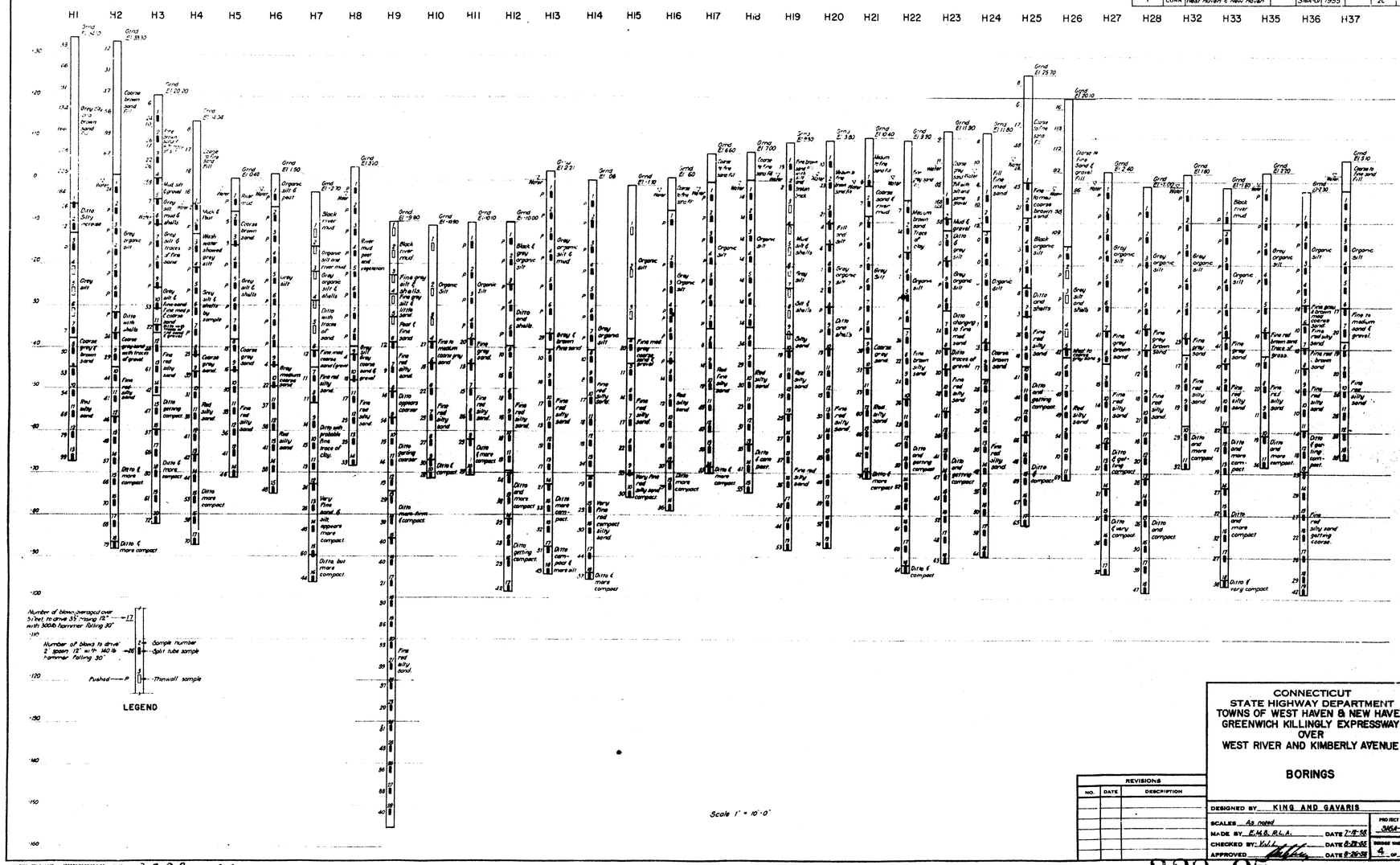
REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY KING AND GAVARIS
SCALES As noted
PLANS BY R.H.K. & E.M.G. DATE 7-12-55
CHECKED BY M.A.G. DATE 8-25-55
APPROVED DATE 8-25-55

316A-01

320-05

FUR. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	West Haven & New Haven		316A-01	1955		2C	73



CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

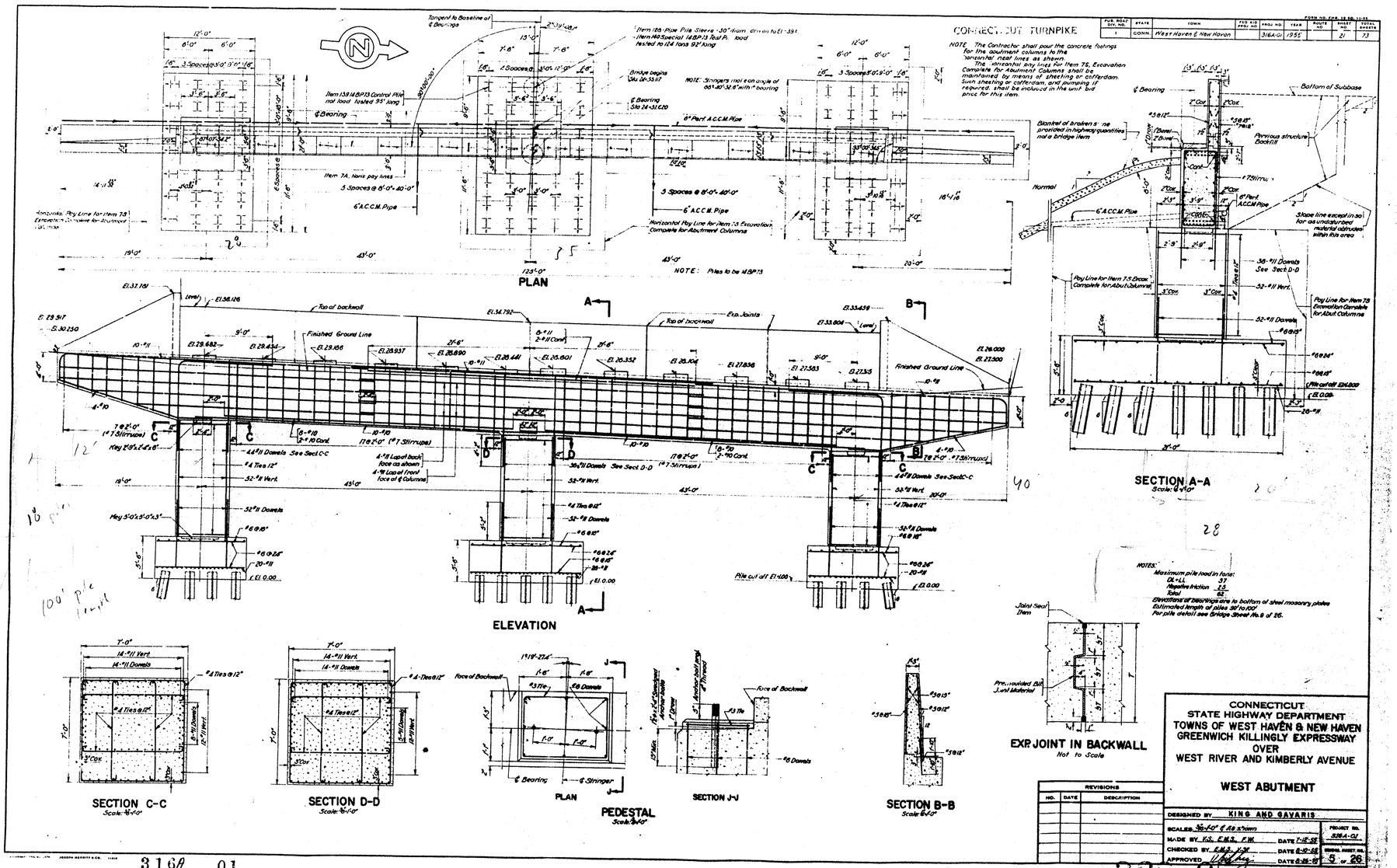
BORINGS

REVISIONS		
NO.	DATE	DESCRIPTION

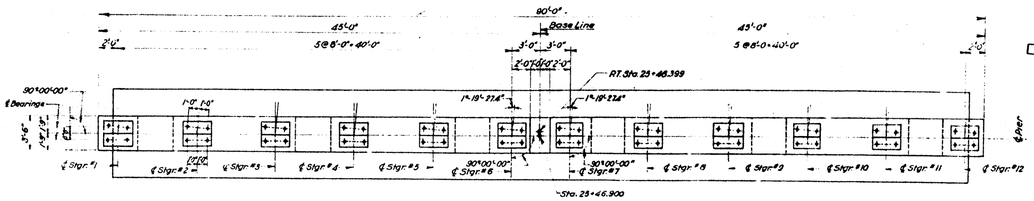
DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY E.M.B. R.L.A. DATE 7-18-58
CHECKED BY V.J.L. DATE 8-28-58
APPROVED [signature] DATE 8-26-58
PROJECT NO. 316A-01
BRIDGE SHEET NO. 4 OF 26

316A 01

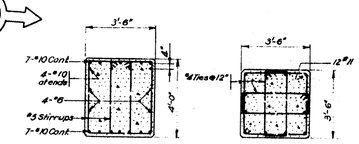
320 05


CONNECTICUT TURNPIKE
PLAN
ELEVATION
SECTION A-A
SECTION C-C
SECTION D-D
PLAN
PEDESTAL
SECTION J-J
SECTION B-B
EXP. JOINT IN BACKWALL
Not to Scale
CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE
WEST ABUTMENT
DESIGNED BY KING AND GAVARIS
REVISIONS
316A 01
320 05

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		3164-01	1955		2a	71



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



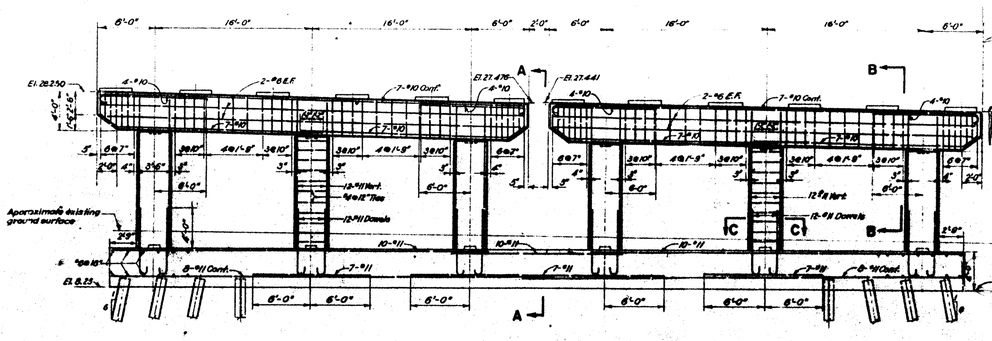
SECTION B-B
Scale 3/4"=1'-0"

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

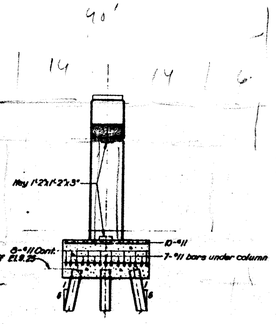
BEARING ELEVATIONS

STRINGER NO.	PIER NO. 1 SPAN 1	SPAN 2
1	28.661	28.603
2	28.495	28.422
3	28.328	28.240
4	28.162	28.134
5	27.995	27.967
6	27.828	27.811
7	27.895	27.688
8	27.729	27.712
9	27.562	27.545
10	27.396	27.379
11	27.204	27.212
12	27.018	27.046

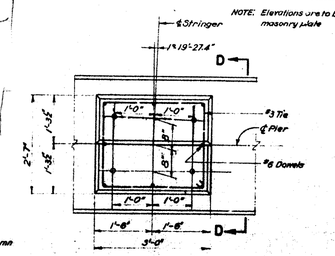
NOTE: Elevations are to bottom of steel masonry plate



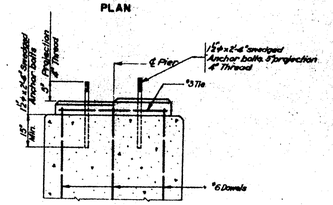
ELEVATION
Scale 1/8"=1'-0"



SECTION A-A
Scale 3/4"=1'-0"

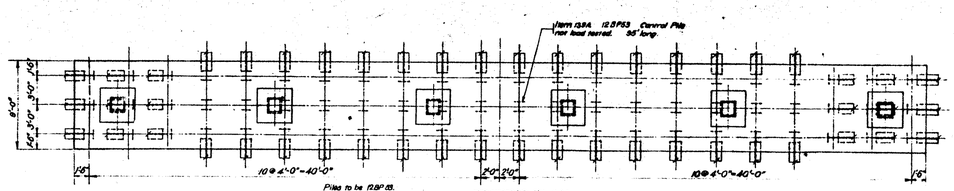


PLAN

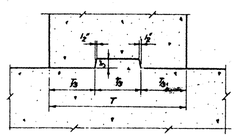


SECTION D-D

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



FOOTING PLAN
Scale 1/8"=1'-0"



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

NOTES
For pile detail see Bridge Sheet No. 8.

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

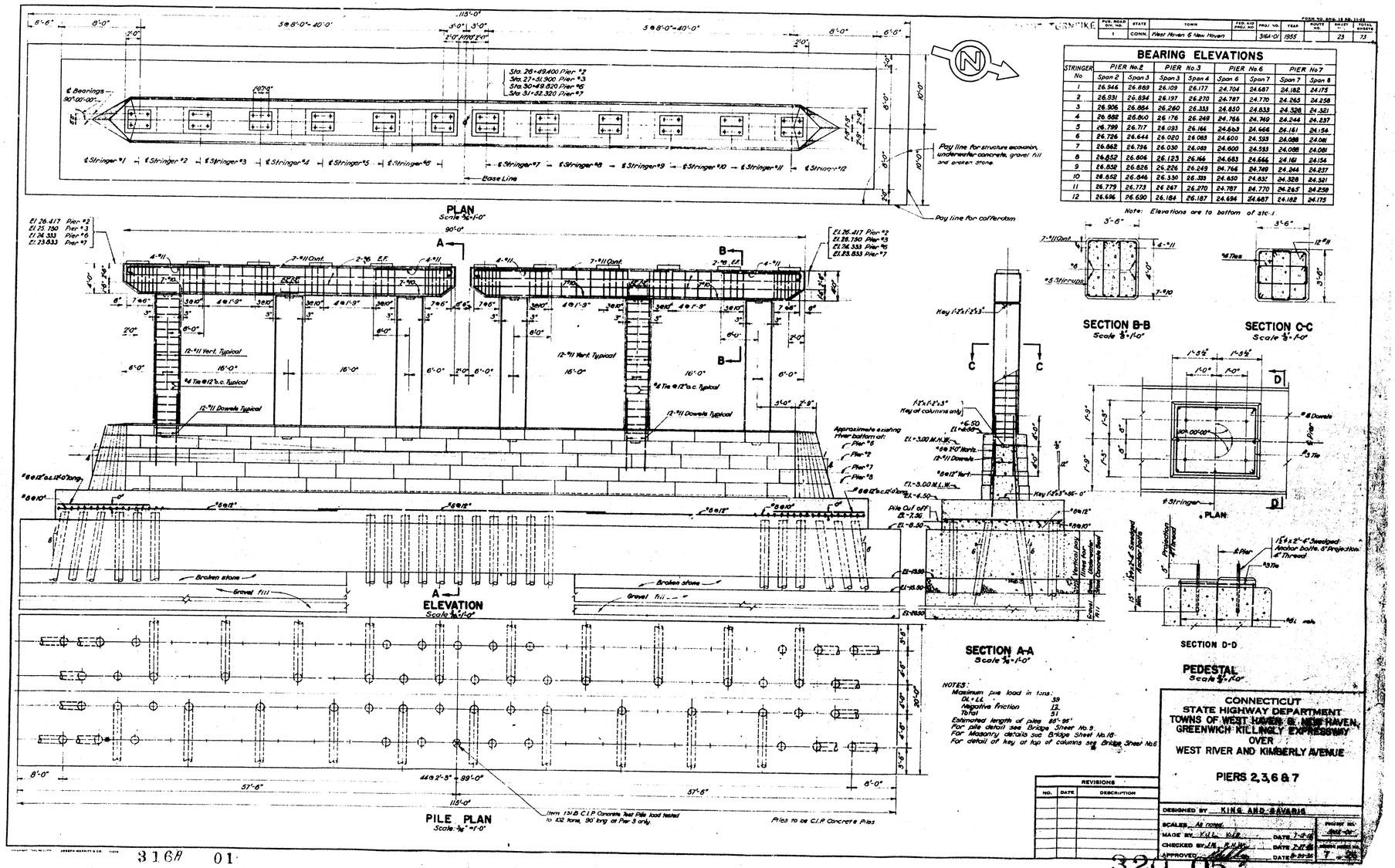
PIER 1

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY KING AND SAVARESE
SCALES As noted
MADE BY
CHECKED BY
APPROVED
DATE

3164 Mar 01

320 05



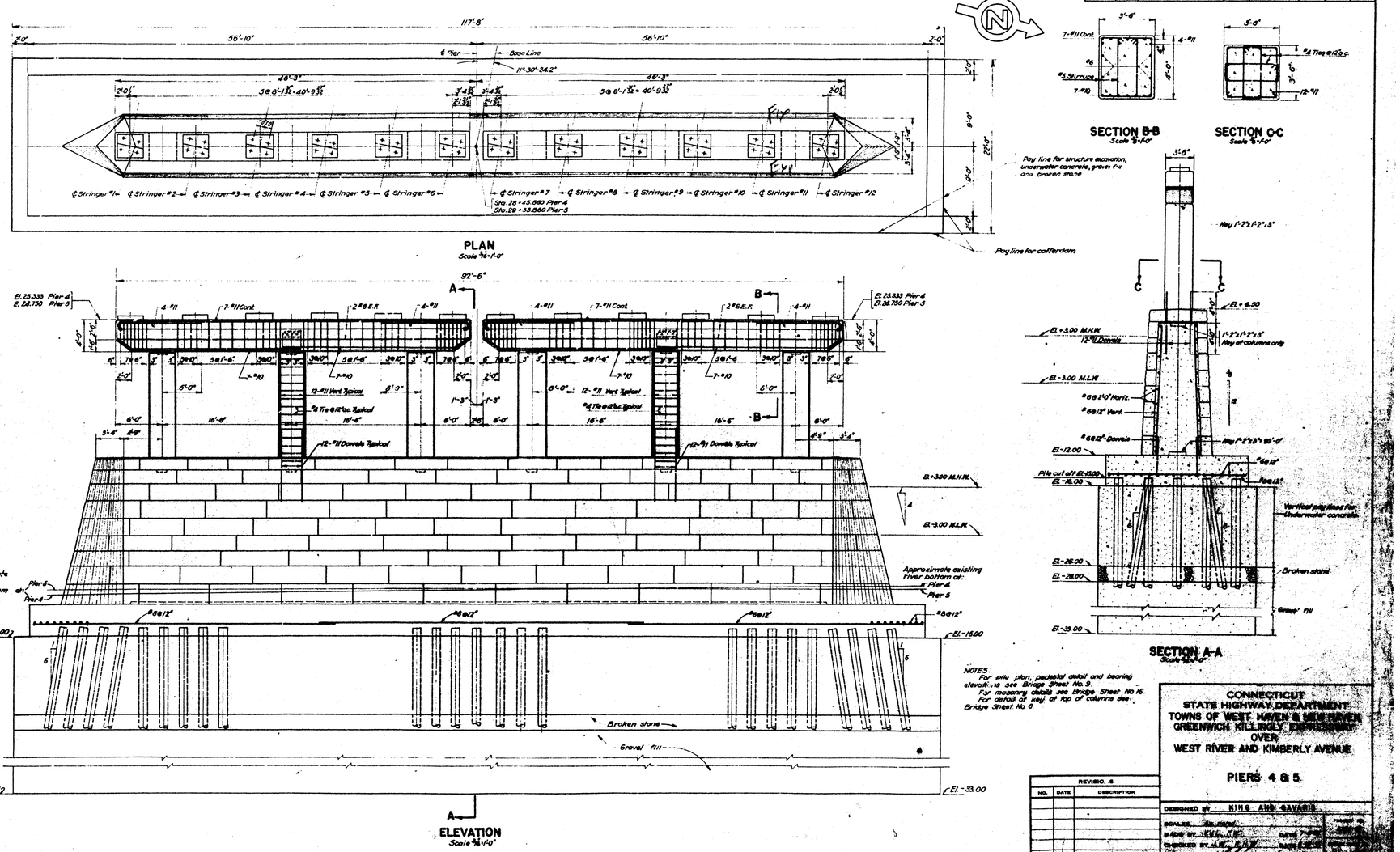
FUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		23	73

BEARING ELEVATIONS

STRINGER No	PIER No. 2 Span 2	PIER No. 2 Span 3	PIER No. 3 Span 3	PIER No. 3 Span 4	PIER No. 6 Span 6	PIER No. 6 Span 7	PIER No. 7 Span 7	PIER No. 7 Span 8
1	26.946	26.889	26.109	26.177	24.704	24.687	24.182	24.175
2	26.931	26.894	26.197	26.270	24.787	24.770	24.265	24.258
3	26.906	26.884	26.260	26.333	24.850	24.833	24.328	24.321
4	26.882	26.860	26.176	26.249	24.766	24.749	24.244	24.237
5	26.799	26.717	26.093	26.166	24.683	24.666	24.161	24.154
6	26.726	26.644	26.020	26.083	24.600	24.593	24.088	24.081
7	26.862	26.796	26.030	26.083	24.600	24.593	24.088	24.081
8	26.852	26.806	26.123	26.166	24.683	24.666	24.161	24.154
9	26.852	26.826	26.226	26.249	24.766	24.749	24.244	24.237
10	26.852	26.846	26.330	26.333	24.850	24.833	24.328	24.321
11	26.779	26.773	26.267	26.270	24.787	24.770	24.265	24.258
12	26.696	26.690	26.184	26.187	24.694	24.687	24.182	24.175

Note: Elevations are to bottom of steel.

PUB. ROAD CO. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955	28	73



REVISIONS

NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH, KILLINGLY, EASTFORD
OVER
WEST RIVER AND KIMBERLY AVENUE

PIERS 4 & 5

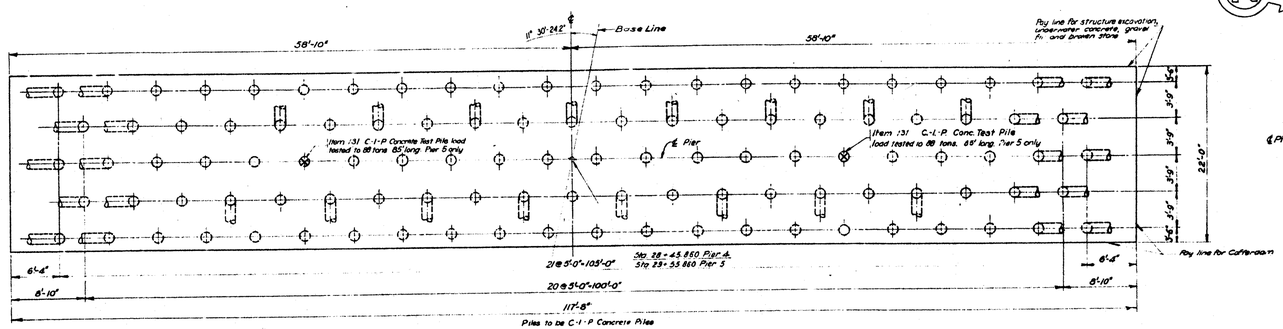
DESIGNED BY KING AND GAVARIS

316A 01

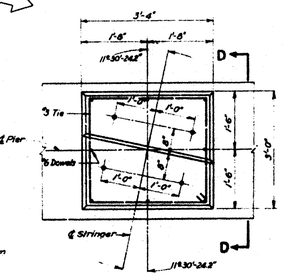
320 05

PUB. RD. AID DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	T.R.B.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		3164 01	195.5		23	73

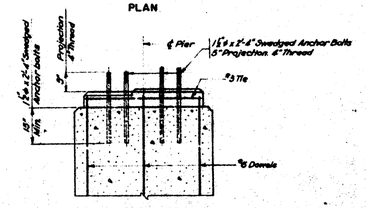
FORM NO. CON. 12 (6-56) 11-58



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



PLAN



SECTION D-D

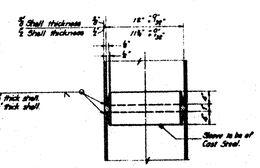
PEDESTAL
Scale 3/4"=1'-0"

NOTES:
Maximum pile load in tons:
DL + LL 38
Negative Friction 8
Total 46
Estimated length of piles 80'-90'

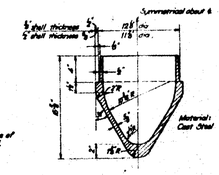
BEARING ELEVATIONS

STRINGER NO.	PIER 4		PIER 5	
	SPAN 4	SPAN 5	SPAN 5	SPAN 6
1	25.670	25.639	25.115	25.123
2	25.772	25.765	25.222	25.215
3	25.843	25.836	25.293	25.280
4	25.767	25.760	25.217	25.210
5	25.692	25.655	25.142	25.135
6	25.617	25.610	25.067	25.060
7	25.633	25.616	25.073	25.066
8	25.714	25.707	25.164	25.157
9	25.806	25.799	25.256	25.249
10	25.898	25.891	25.348	25.341
11	25.843	25.836	25.293	25.256
12	25.766	25.746	25.203	25.201

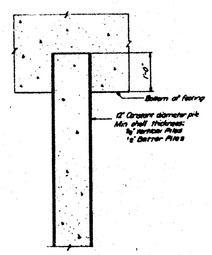
NOTE: Elevations are to bottom of steel masonry ℄.



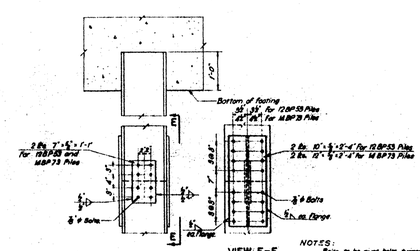
PILE SPLICE
Scale: 1½"=1'-0"



PILE POINT
Scale: 1½"=1'-0"



CAST-IN-PLACE CONCRETE PILE
Scale: ½"=1'-0"



SPLICE FOR H-PILE
Scale: ½"=1'-0"

NOTES:
Bolts to be rivet bolts turned bolts or equal.
Splices to be used only where authorized by the Engineer.
For size of pile see individual foundations.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

PIERS 4 & 5 - PILE PLAN
PILE DETAILS

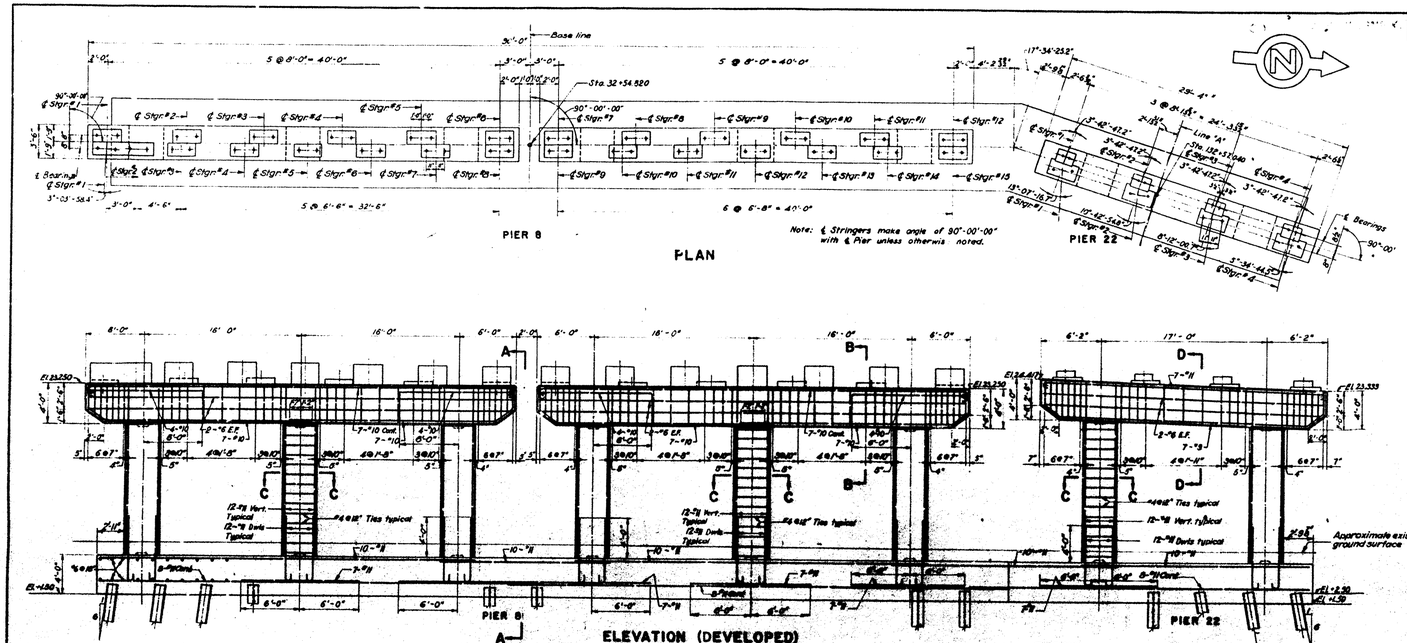
DESIGNED BY KING AND SAVARIS
SCALE AS NOTED
DRAWN BY
CHECKED BY
APPROVED
DATE

316A 01

320 05

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1951		26	73

FORM NO. ENG. 18 (R. 11-52)

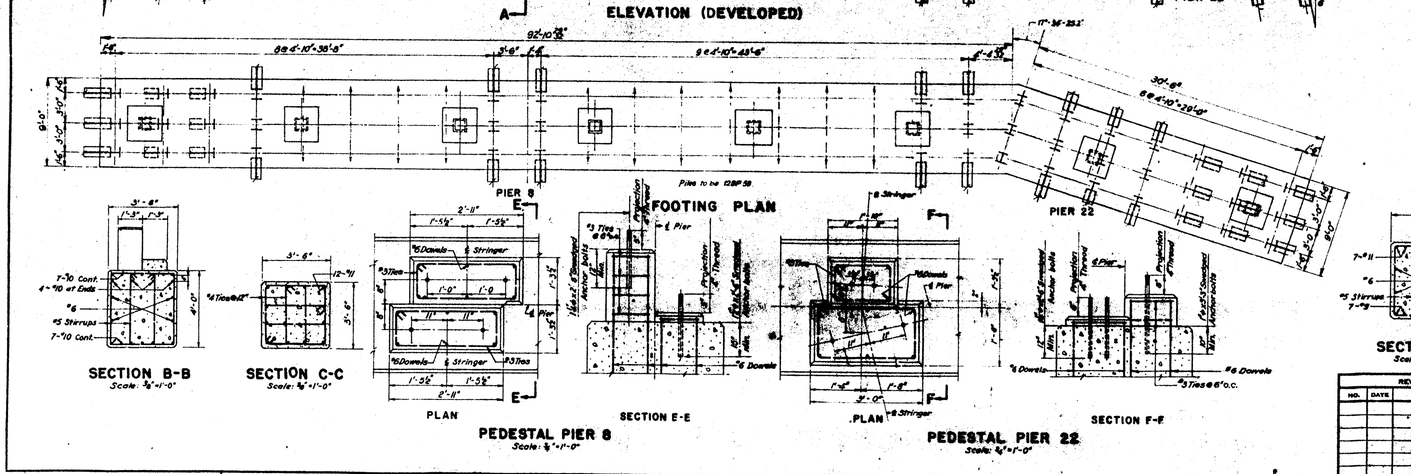


BEARING ELEVATIONS

STRINGER	PIER 8		PIER 22	
	SPAN 8	SPAN 9	SPAN 23	SPAN 9
1	23.669	25.277	26.146	24.696
2	23.752	25.381	25.818	24.389
3	23.815	25.388	25.401	24.082
4	23.731	25.454	25.164	23.641
5	23.646	25.407	—	—
6	23.573	25.339	—	—
7	23.573	25.272	—	—
8	23.648	25.162	—	—
9	23.731	25.162	—	—
10	23.815	25.273	—	—
11	23.752	25.413	—	—
12	23.669	25.412	—	—
13	—	25.447	—	—
14	—	25.377	—	—
15	—	25.308	—	—

NOTE: Elevations are to bottom of steel masonry plate.

NOTES:
Maximum load in tons:
DL + LL 30
Negative Friction 20
Total 50
Estimated length of piles 85'-95'
For pile detail see Bridge Sheet No. 8
For detail of key see Bridge Sheet No. 6



REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

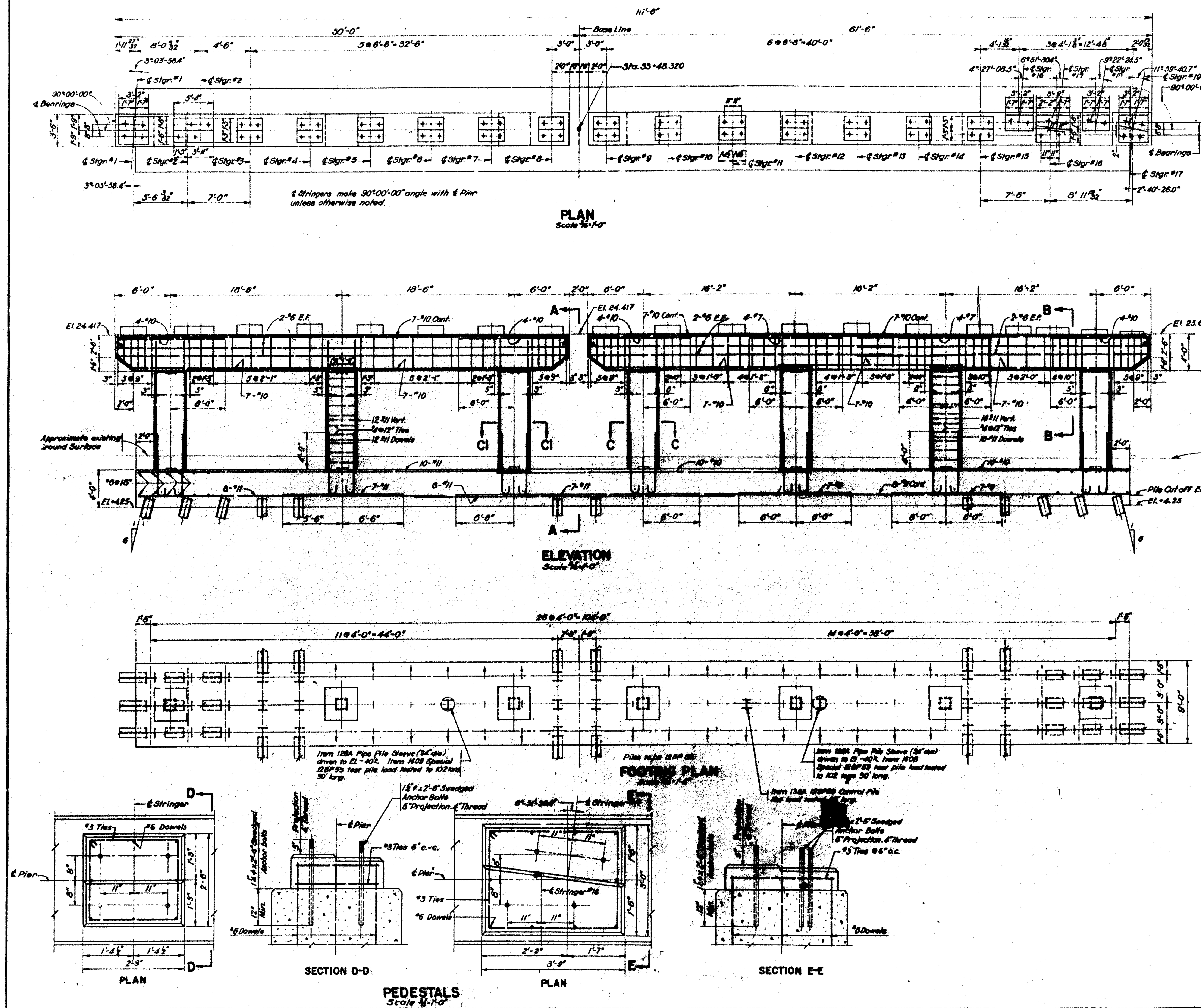
PIERS 8 & 22

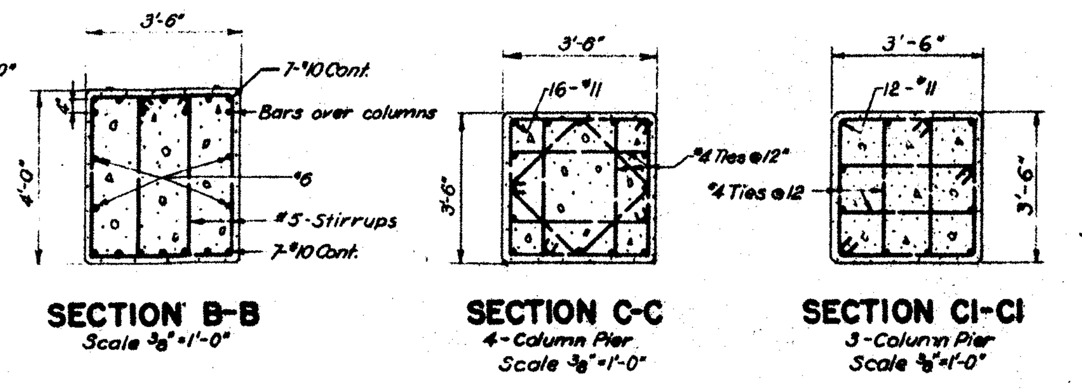
DESIGNED BY KING AND GAVARIS
SCALES 1/8"=1'-0" and as noted
MADE BY
CHECKED BY
APPROVED

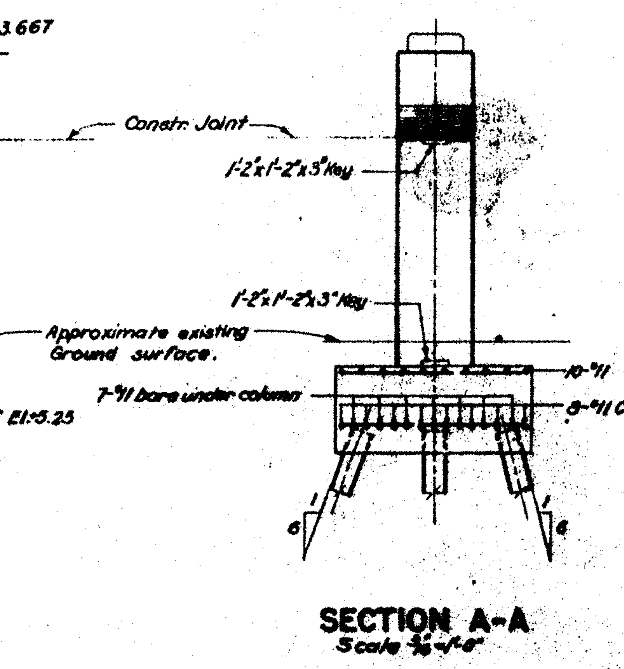
316A-01

320-05

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		27	73







BEARING ELEVATIONS

STRINGER NO.	PIER NO. 9 SPAN 9	PIER NO. 9 SPAN 10
1	24.702	24.776
2	24.981	24.878
3	24.928	24.971
4	24.994	25.039
5	24.947	24.992
6	24.879	24.934
7	24.813	24.867
8	24.702	[illegible]
9	24.702	[illegible]
10	24.818	[illegible]
11	[illegible]	[illegible]
12	[illegible]	[illegible]
13	[illegible]	[illegible]
14	24.917	24.932
15	[illegible]	[illegible]
16	24.498	[illegible]
17	24.386	[illegible]
18	24.193	—
19	23.948	—

NOTE: Elevations are to bottom of steel masonry plate.

NOTES:
Maximum pile load in tons:
DL + LL 25
Negative friction 26
Total 51
Estimated length of piles 85'-95'
For pile detail see Bridge Sheet No. 3
For detail of key see Bridge Sheet No. 6

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

PIER 9

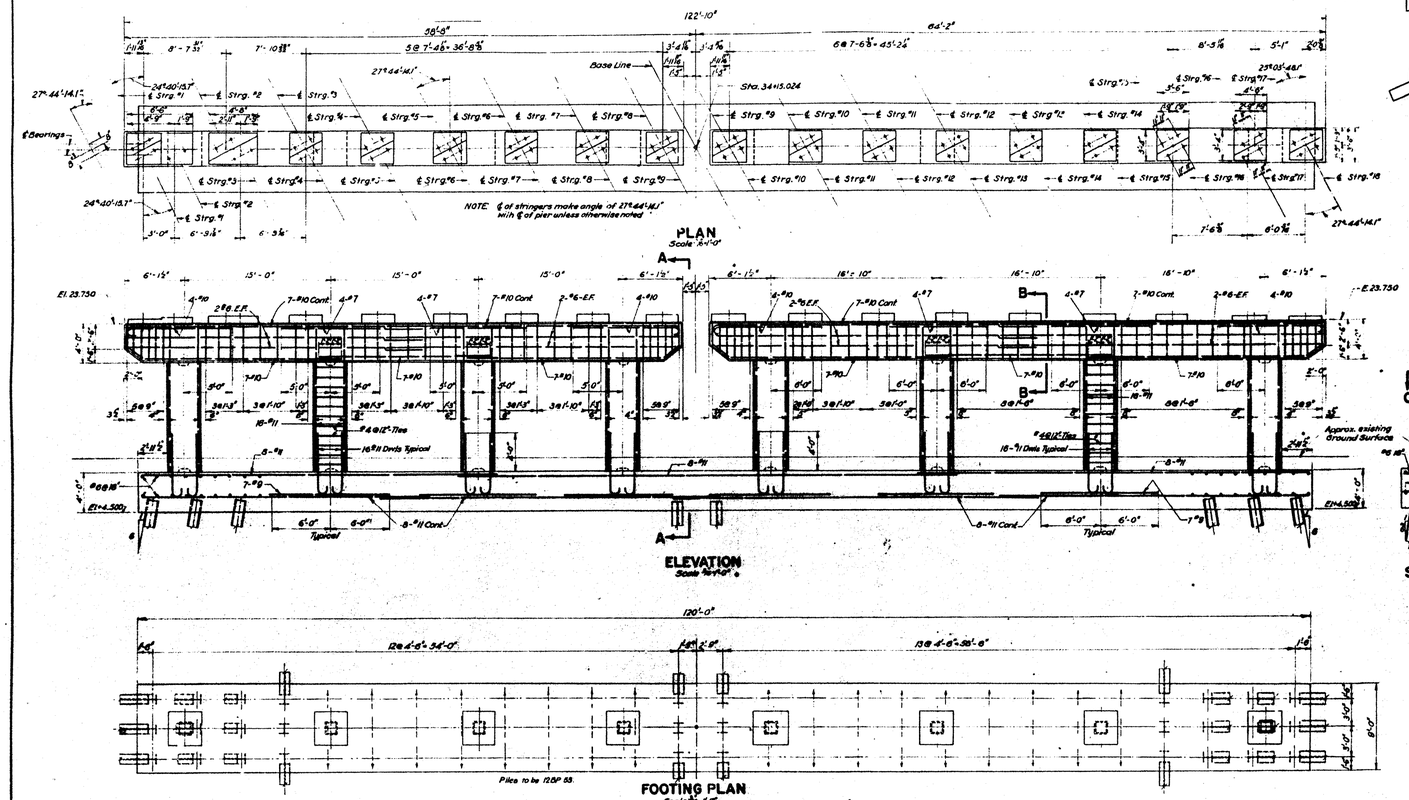
DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY [illegible] DATE [illegible]
CHECKED BY [illegible] DATE [illegible]
APPROVED [illegible] DATE [illegible]

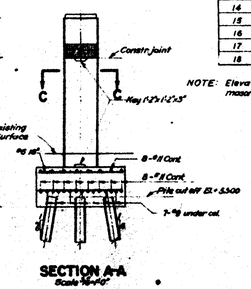
316A 01

325 05

FORM NO. ENG. 18 ED. 11-55

PUB. ROAD SYS. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		S164-01	1955		24	73



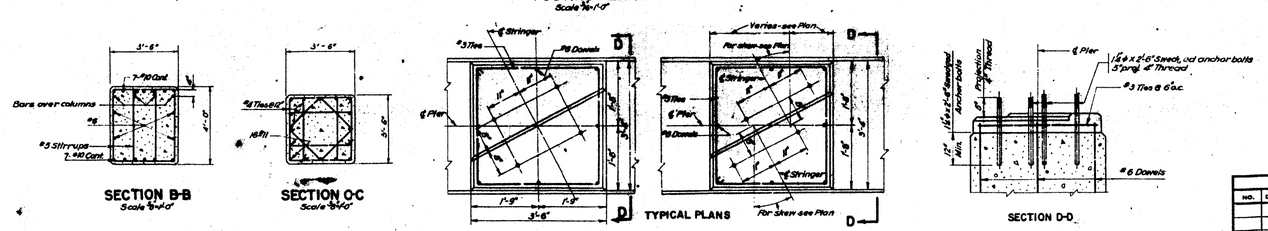


BEARING ELEVATIONS

STRINGER No.	PIER #10 Span 10	PIER #10 Span 11
1	24.318	24.386
2	24.557	24.539
3	24.736	24.648
4	24.785	24.679
5	24.725	24.730
6	24.640	24.668
7	24.546	24.581
8	24.471	24.497
9	24.445	24.370
10	24.506	24.354
11	24.559	24.447
12	24.609	24.500
13	24.618	24.551
14	24.530	24.568
15	24.371	24.481
16	24.195	24.363
17	24.038	24.206
18	—	24.009

NOTE: Elevations are to bottom of steel masonry plate

NOTES:
Maximum pile load in tons:
DL + LL 25
Negative friction 29
Total 54
Estimated length of piles 65'-96'
For pile detail see Bridge Sheet No. 3
For detail of key see Bridge Sheet No. 6



REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

PIER 10

DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY K.L.L. D.C. DATE 7-12-55
CHECKED BY J.W. R.W.K. DATE 7-29-55
APPROVED DATE 8-29-55
PROJECT NO. 300-41-01
BRIDGE SHEET NO. 10

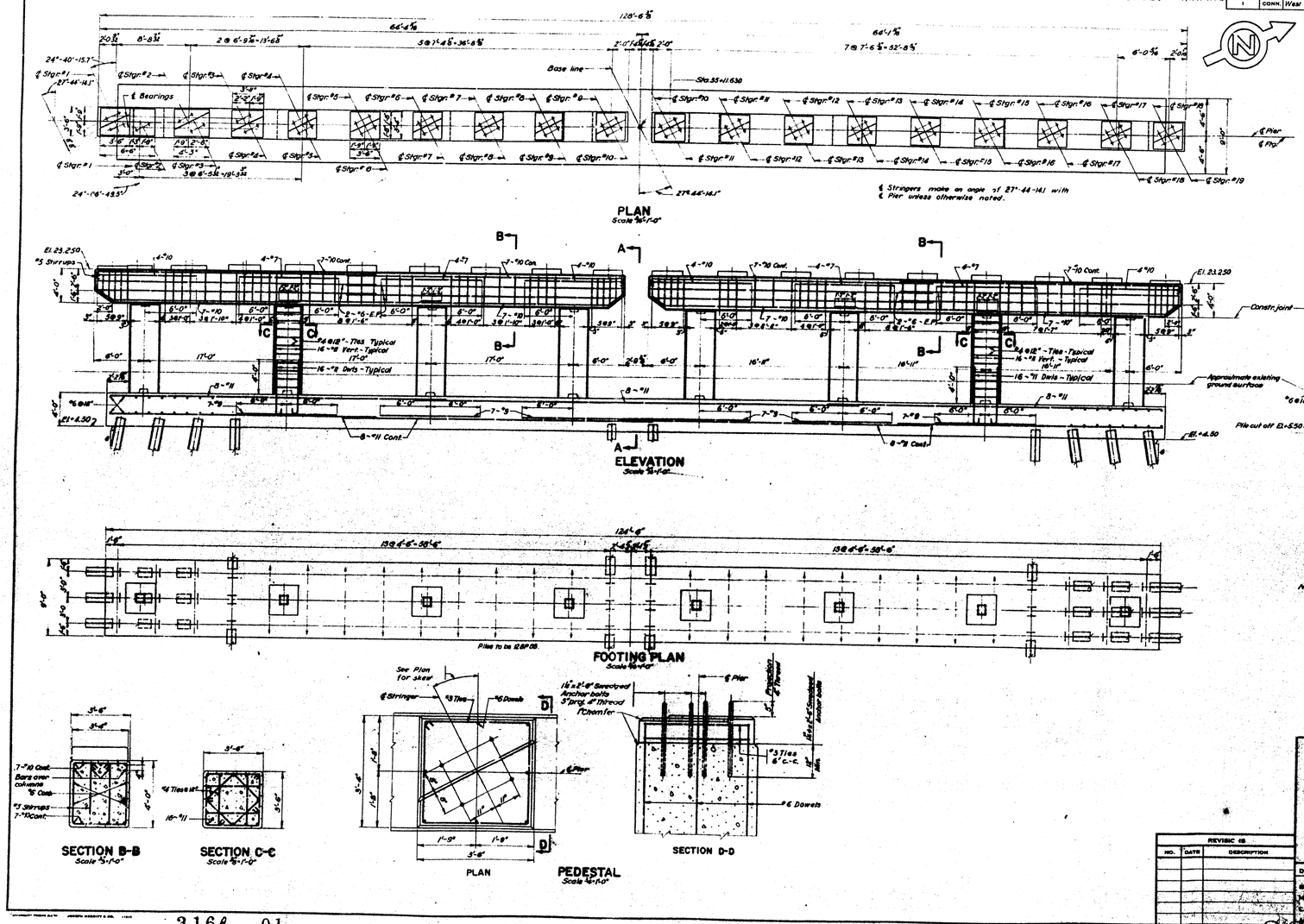
320-05

28

CONNECTICUT TURNPIKE

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1963		79	7.1

FORM 70-800 (12-28-11-58)



BEARING ELEVATIONS

STRINGER NO.	PIER NO. 11 SPAN 11	PIER NO. 11 SPAN 12
1	23.700	23.763
2	24.004	23.877
3	24.160	24.017
4	24.203	24.157
5	24.234	24.230
6	24.190	24.289
7	24.105	24.225
8	24.021	24.140
9	23.994	24.056
10	23.978	23.967
11	23.971	23.924
12	24.024	23.991
13	24.073	24.049
14	24.088	24.110
15	24.008	24.128
16	23.867	24.040
17	23.730	23.923
18	23.583	23.763
19	—	23.599

NOTES:
Maximum pile load in tons:
DL = 11 ... 27
Negative friction ... 22
Total ... 49
Estimated length of piles 85'-96'
For pile detail see Bridge Sheet No. 9
For detail of hdg. see Bridge Sheet No. 6.

REVISIONS		
NO.	DATE	DESCRIPTION

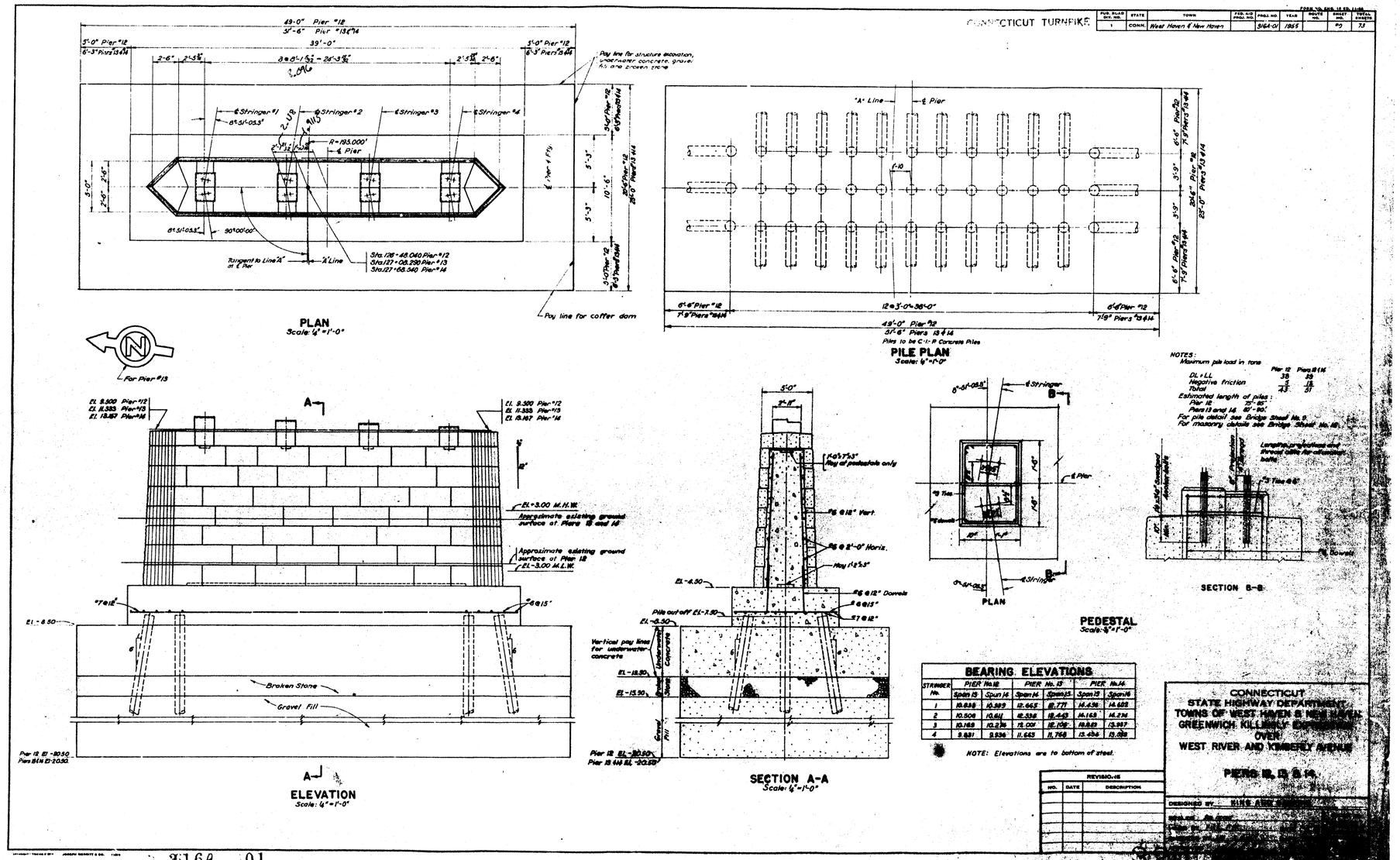
CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH AVENUE BRIDGE
OVER
WEST RIVER AND KIMBERLY AVENUE

PIER 11

DESIGNED BY: KIRK AND GANNETT

316A 01

316A 01



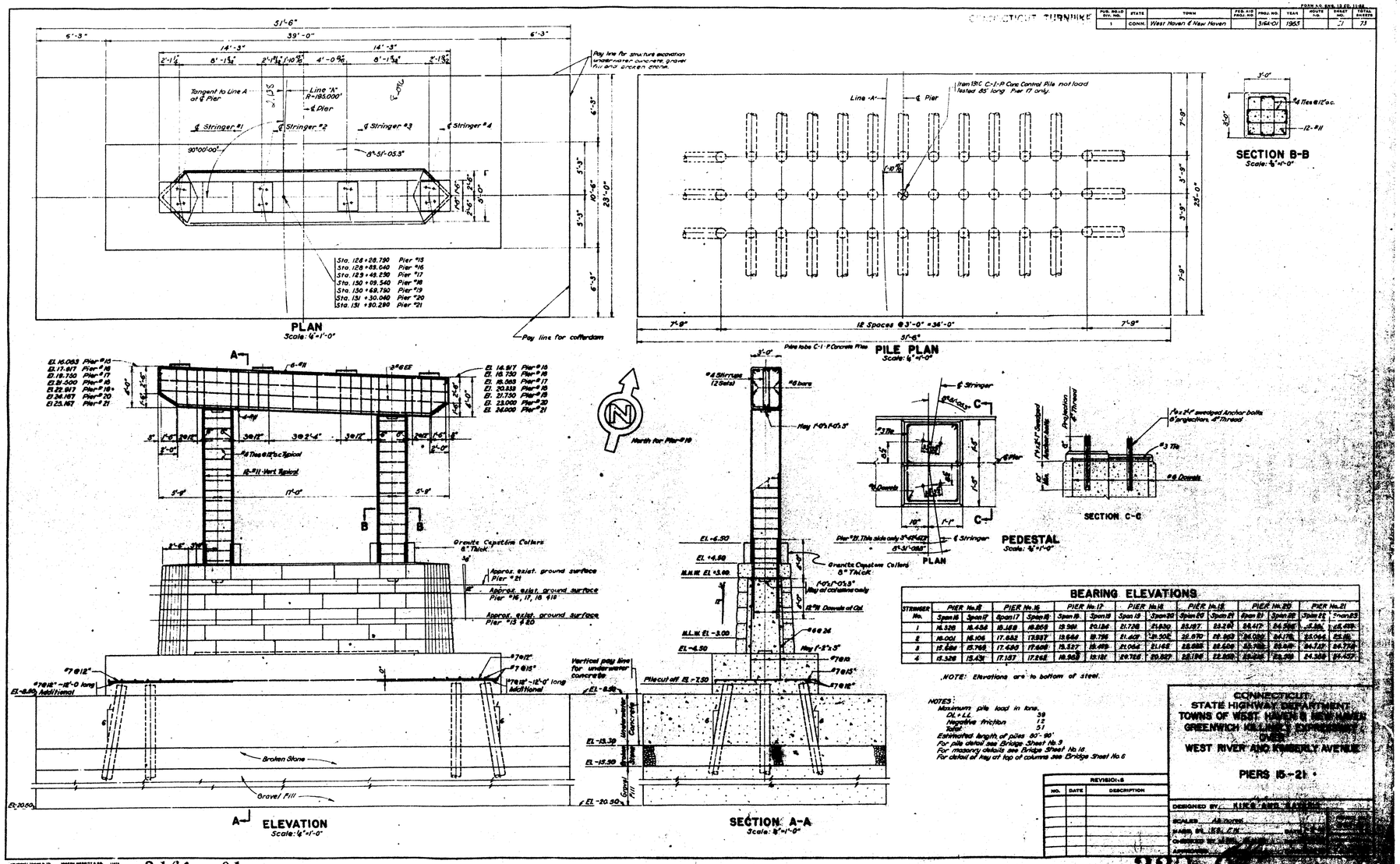
BEARING ELEVATIONS

STRINGER No.	PIER No. 12		PIER No. 13		PIER No. 14	
	Span 13	Span 14	Span 14	Span 13	Span 13	Span 14
1	10.838	10.989	12.665	12.771	14.496	14.602
2	10.508	10.611	12.336	12.443	14.169	14.274
3	10.169	10.276	12.001	12.108	13.829	13.937
4	9.831	9.936	11.663	11.768	13.494	13.599

NOTE: Elevations are to bottom of steel.

CONNECTICUT TURNPIKE

FED. AID DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1965		71	73



BEARING ELEVATIONS

STRINGER No.	PIER No. 15 Span 15	PIER No. 15 Span 17	PIER No. 16 Span 17	PIER No. 16 Span 19	PIER No. 17 Span 19	PIER No. 18 Span 20	PIER No. 18 Span 21	PIER No. 19 Span 21	PIER No. 19 Span 22	PIER No. 20 Span 22	PIER No. 21 Span 23
1	16.328	16.434	16.458	16.859	19.981	20.186	21.748	21.830	23.187	23.28[illegible]	24.417	24.596	24.8[illegible]	24.8[illegible]
2	16.001	16.106	17.482	17.887	19.664	19.796	21.407	21.500	22.870	22.963	24.096	24.178	24.064	24.8[illegible]
3	15.684	15.788	17.490	17.895	19.337	19.469	21.064	21.148	22.555	22.648	23.785	23.869	24.728	24.772
4	15.328	15.434	17.157	17.562	18.963	19.181	20.768	20.867	22.194	22.288	23.426	23.519	24.388	24.437

NOTE: Elevations are to bottom of steel.

NOTES:
Maximum pile load in tons.
DL + LL 39
Negative friction 12
Total 51
Estimated length of piles 80'-90'
For pile detail see Bridge Sheet No. 9
For masonry details see Bridge Sheet No. 16
For detail of top of columns see Bridge Sheet No. 6

REVISIONS		
NO.	DATE	DESCRIPTION

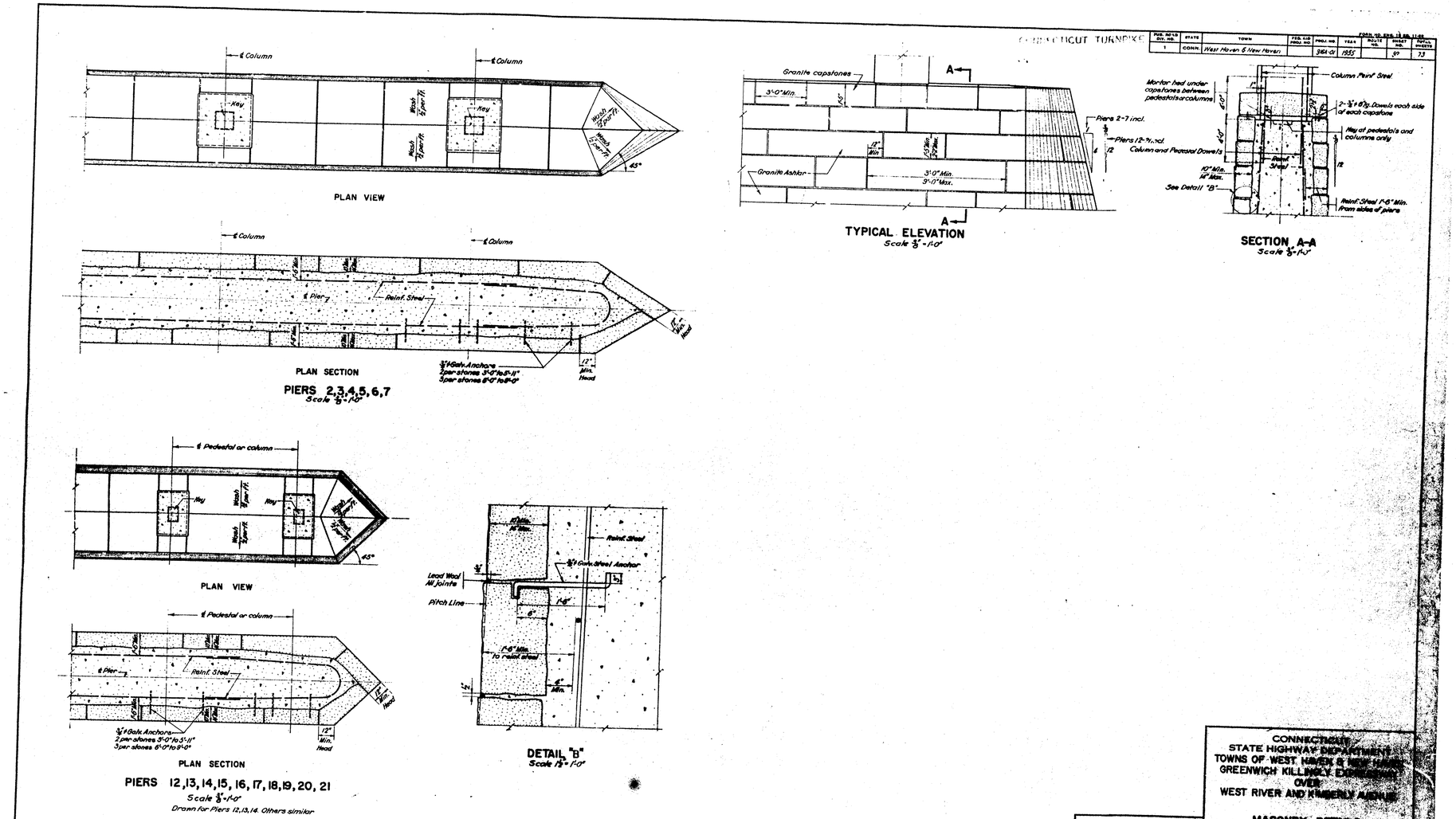
CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH BRIDGE CONNECTION
OVER
WEST RIVER AND KOSCIUSKO AVENUE

PIERS 15-21

DESIGNED BY: KIRK & KIRK
SCALES: AS NOTED
MADE BY: [illegible]

316A 01

320 01



CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

MASONRY DETAILS

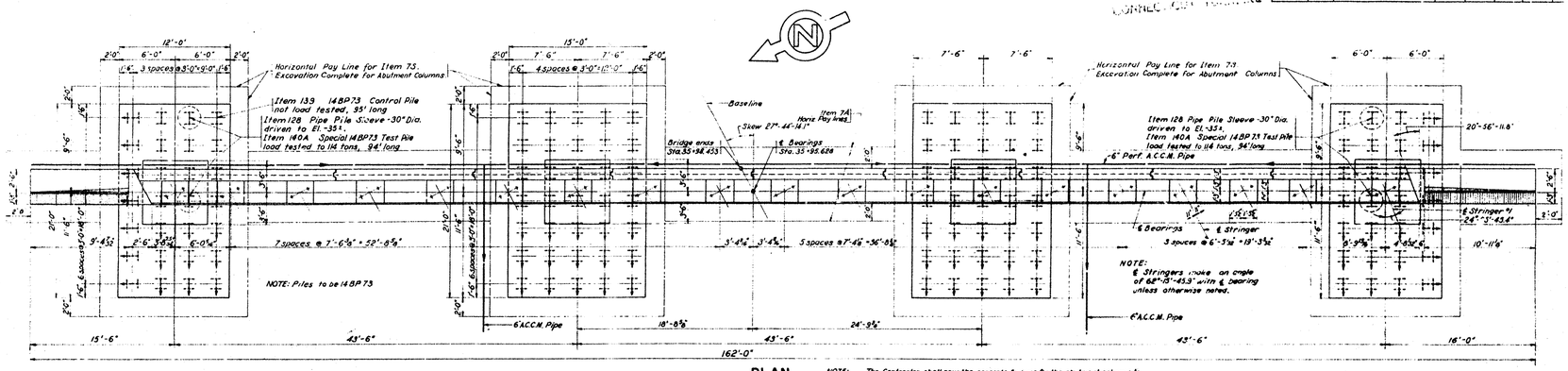
REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY KING AND [illegible]
SCALES As noted
MADE BY [illegible]
CHECKED BY [illegible]
APPROVED [illegible]

316A 01

320 05

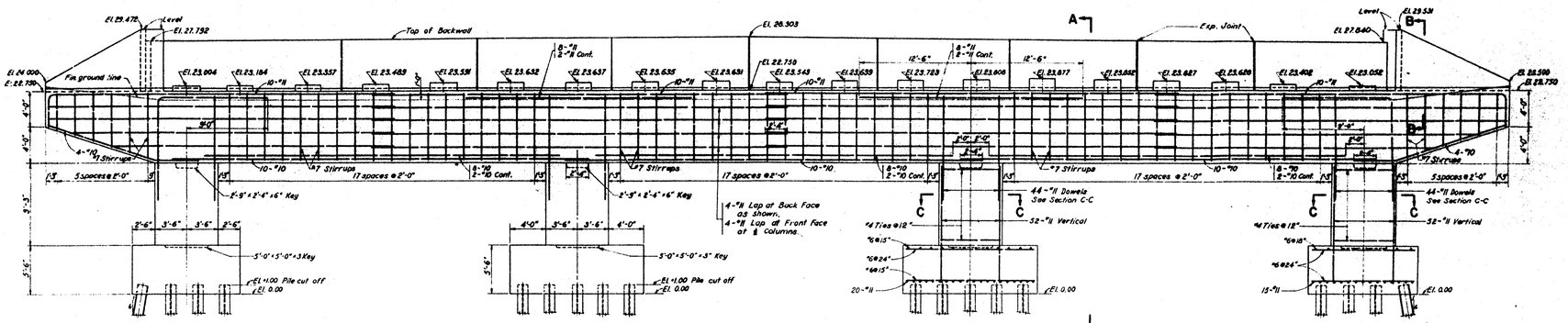
FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		23	73



PLAN

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

NOTE: The Contractor shall pour the concrete footings for the abutment columns to the horizontal neat lines as shown.
The horizontal pay lines for Item 7S, Excavation Complete for Abutment Columns shall be maintained by means of sheeting or cofferdam. Such sheeting or cofferdam, and pumping if required, shall be included in the unit bid price for this item.



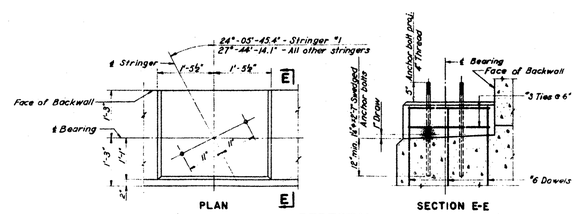
ELEVATION

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

NOTES:
Maximum pile load in tons:

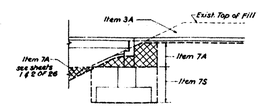
DL + LL	37
Negative friction	20
Total	57

Estimated length of piles 90'-100'
Elevations at bearings are to bottom of steel masonry plates.
For pile detail see Bridge Sheet No. 9 of 26.
For Sections A-A, B-B, C-C and Exp. Joint in Backwall see Bridge Sheet No. 5 of 26.



PEDESTAL

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



SKETCH OF VERTICAL PAY LIMITS FOR EXCAVATION ITEMS FOR BOTH ABUTMENTS

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

EAST ABUTMENT

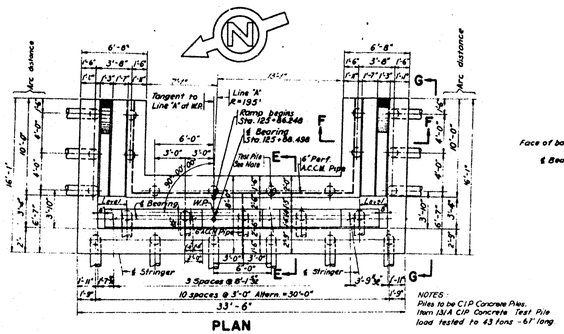
DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY V.S., L.H. DATE 7-12-55
CHECKED BY E.M.S., V.S. DATE 8-10-55
APPROVED [signature] DATE 8-16-55
PROJECT NO. 316A-01
BRIDGE SHEET NO. 17 of 26

320 08

CONNECTICUT TURNPIKE

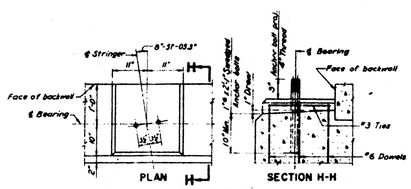
PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A 01	1955		36	79

FORM NO. 514-1R 8-55-11-55

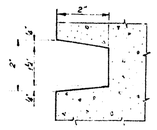


PLAN

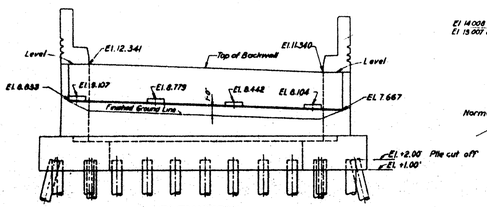
NOTES:
Piles to be C.I.P. Concrete Piles.
Item 13/4 C.I.P. Concrete Test Pile load tested to 43 tons - 67' long



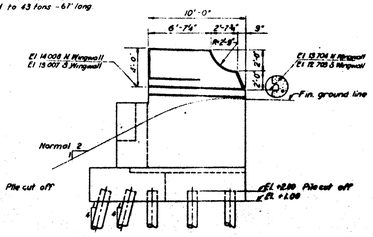
PEDESTAL
Scale ¼" = 1'-0"



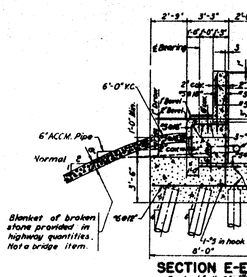
RUSTICATION DETAIL
Scale half size



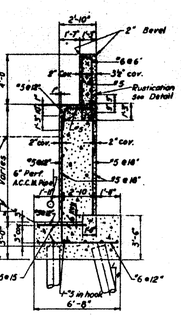
ELEVATION



ELEVATION G-G



SECTION E-E
Scale: ¼" = 1'-0"



SECTION F-F
Scale: ¼" = 1'-0"

NOTES
Maximum pile load in tons:
DL + LL 215
Negative Friction 0
Total 215
Estimated length of piles 65'-75'
Elevations at bearings are to bottom of steel (masonry) Bs.
For Pile Detail see Bridge Sheet No 9

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND [illegible]BERLY AVENUE

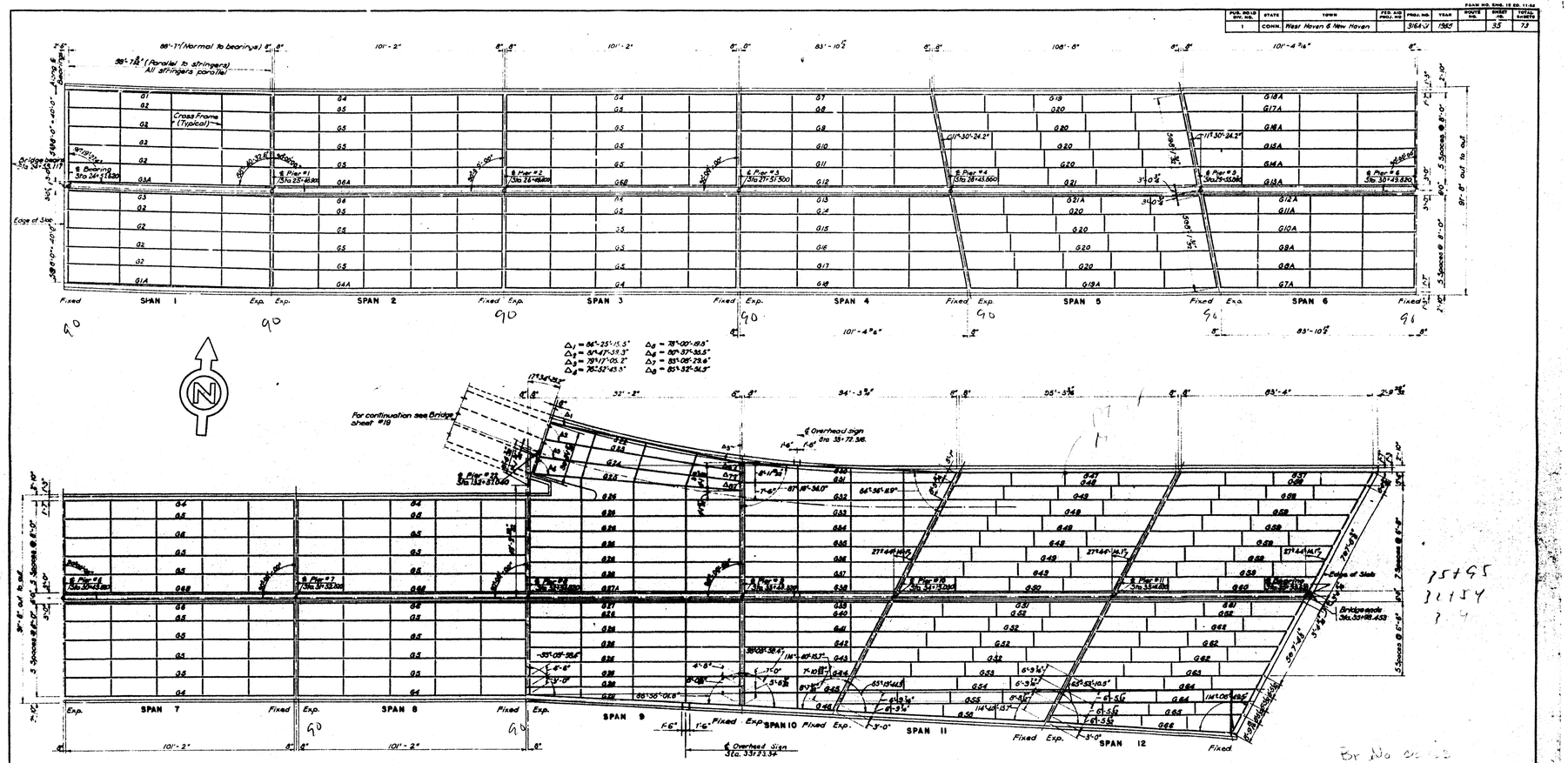
RAMP ABUTMENT

DESIGNED BY KING AND GAVARIS
SCALES 3/8" = 1'-0" & as noted
MADE BY K.L.L., F.W. DATE 7-12-55
CHECKED BY M.A.S., K.L.L. DATE 8-5-55
APPROVED [illegible] DATE 8-22-55

PROJECT NO. 316A-01
CONTRACT NO. 17L-08

316A 01

320 65



FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-J	1965		35	73

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

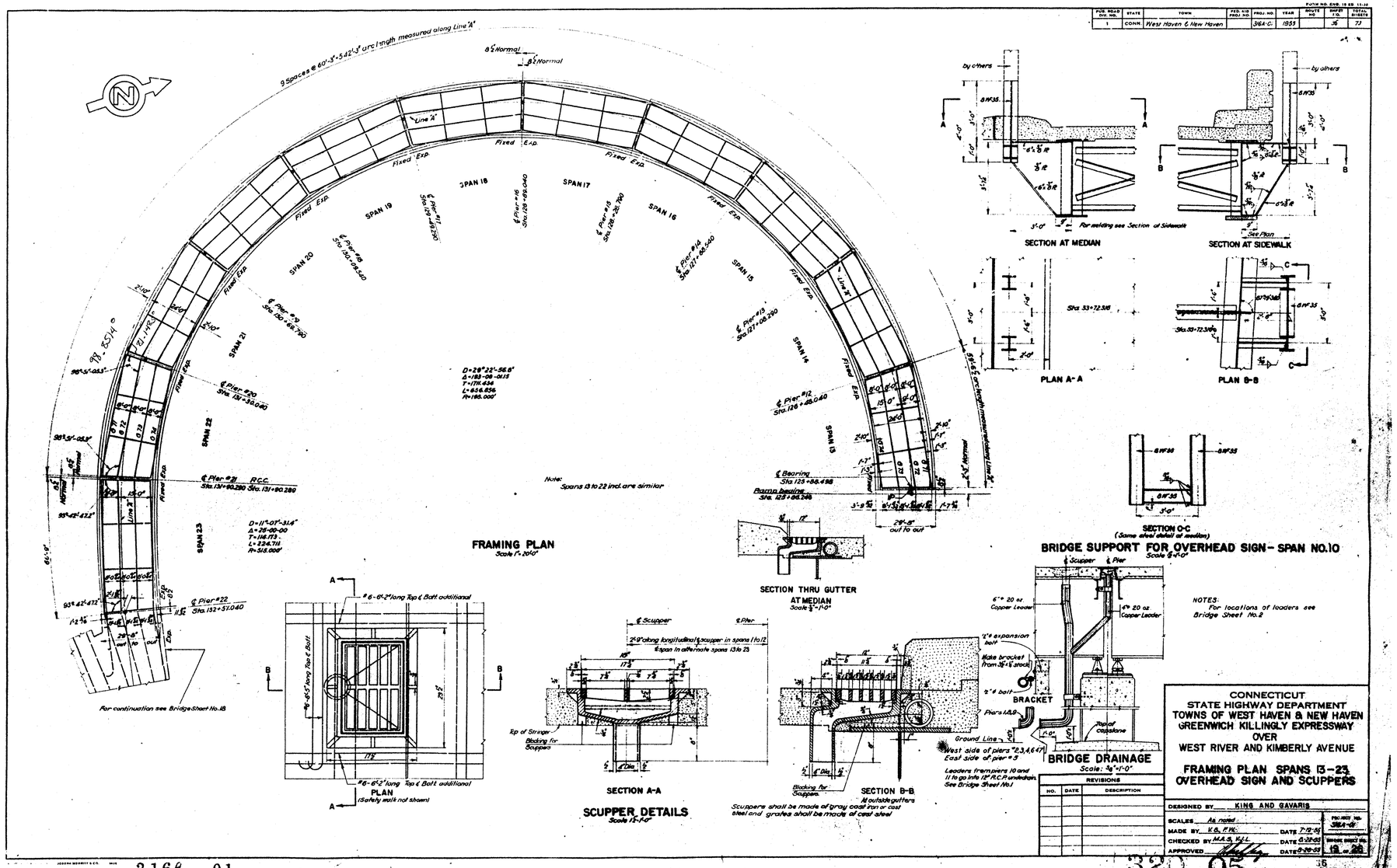
FRAMING PLAN SPANS 1 – 12

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY KING AND GAVRIN
SCALES 1" = 20'
MADE BY J.A.A.B., D.C. DATE 7-15-55
CHECKED BY V.J.L. DATE 8-10-55
APPROVED DATE 8-29-55
PROJECT NO. 316A-J
SHEET NO. 18 of 26

320 05

35



FUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-C	1955		36	73

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

FRAMING PLAN SPANS 13-23
OVERHEAD SIGN AND SCUPPERS

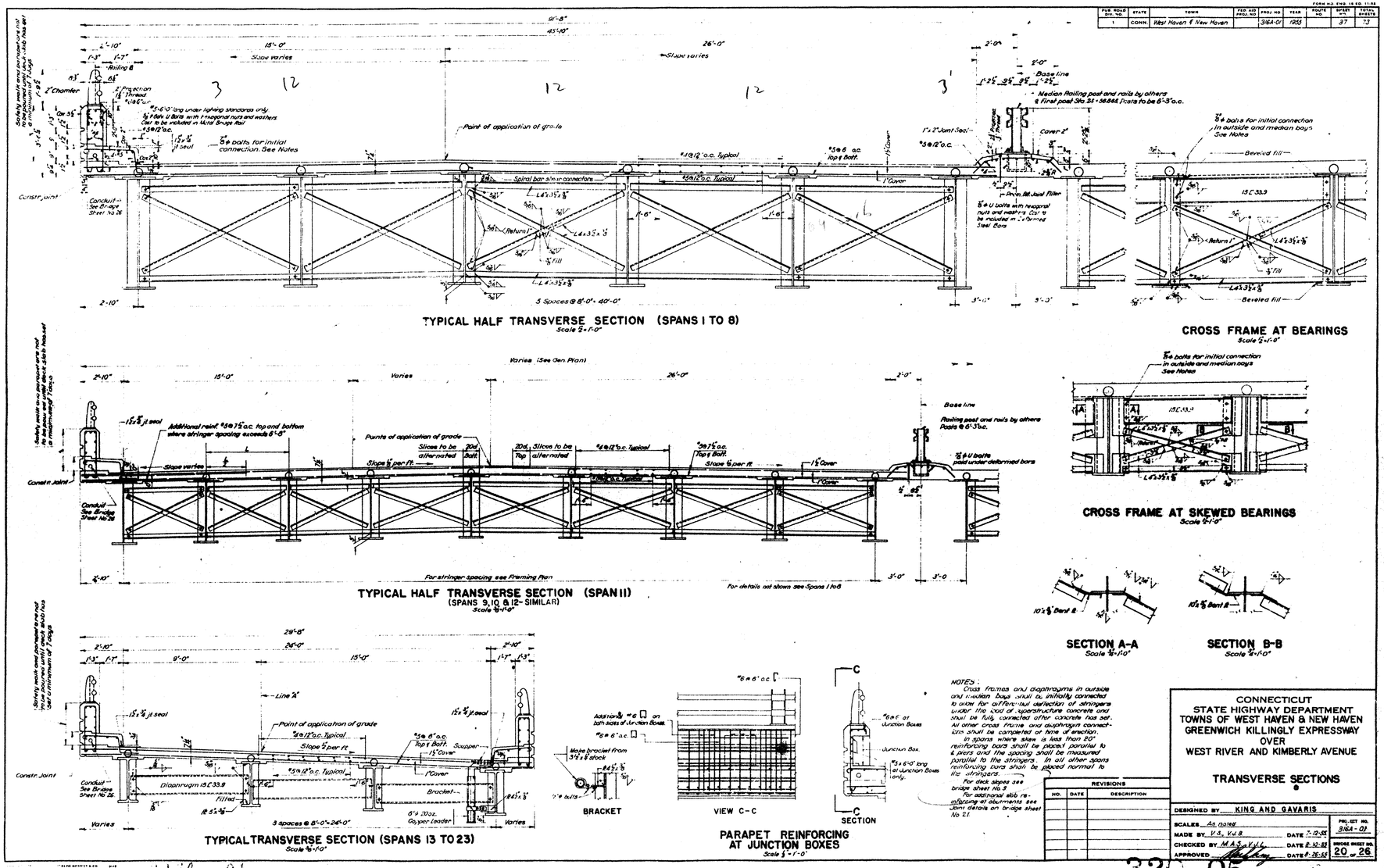
REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY V.B., F.W. DATE 7-12-55
CHECKED BY M.A.S., K.L.L. DATE 8-22-55
APPROVED DATE 8-26-55
PROJECT NO. 316A-01
BRIDGE SHEET NO. 19 OF 28

316A 01

320 05

FUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		37	73



NOTES:
Cross frames and diaphragms in outside and median bays shall be initially connected to allow for differential deflection of stringers under the load of superstructure concrete and shall be fully connected after concrete has set. All other cross frame and diaphragm connections shall be completed at time of erection.
In spans where skew is less than 20° reinforcing bars shall be placed parallel to ℄ piers and the spacing shall be measured parallel to the stringers. In all other spans reinforcing bars shall be placed normal to the stringers.
For deck slopes see bridge sheet No. 3.
For additional slab reinforcing at abutments see Joint details on bridge sheet No. 21.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

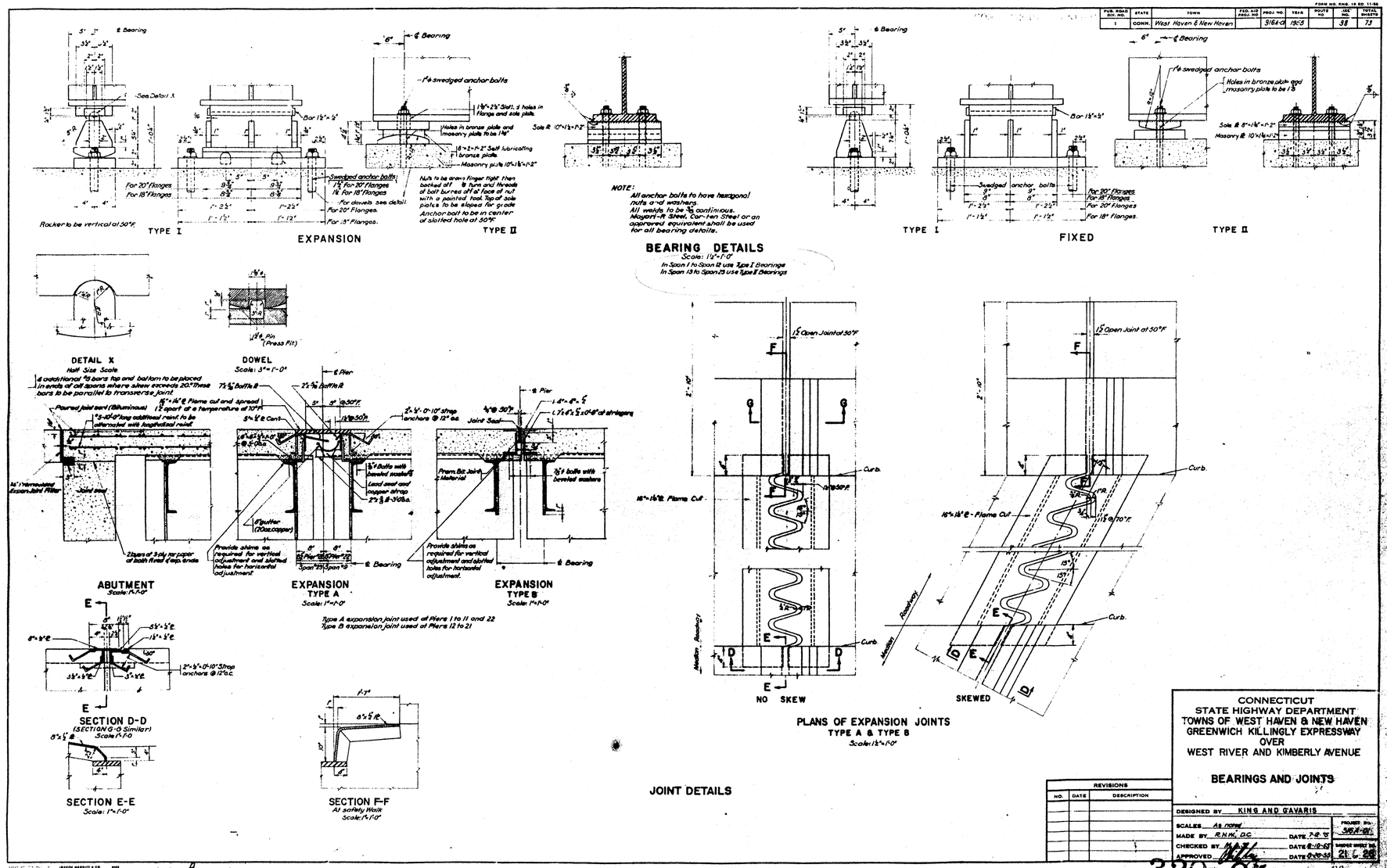
TRANSVERSE SECTIONS

DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY V.S., V.J.B. DATE 7-12-55
CHECKED BY M.A.S., V.J.L. DATE 8-12-55
APPROVED [signature] DATE 8-26-55
PROJECT NO. 316A-01
BRIDGE SHEET NO. 20 OF 26

320 05

FORM NO. BRG. 18 ED. 11-56

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHT. NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		9164-01	1963		38	73



REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

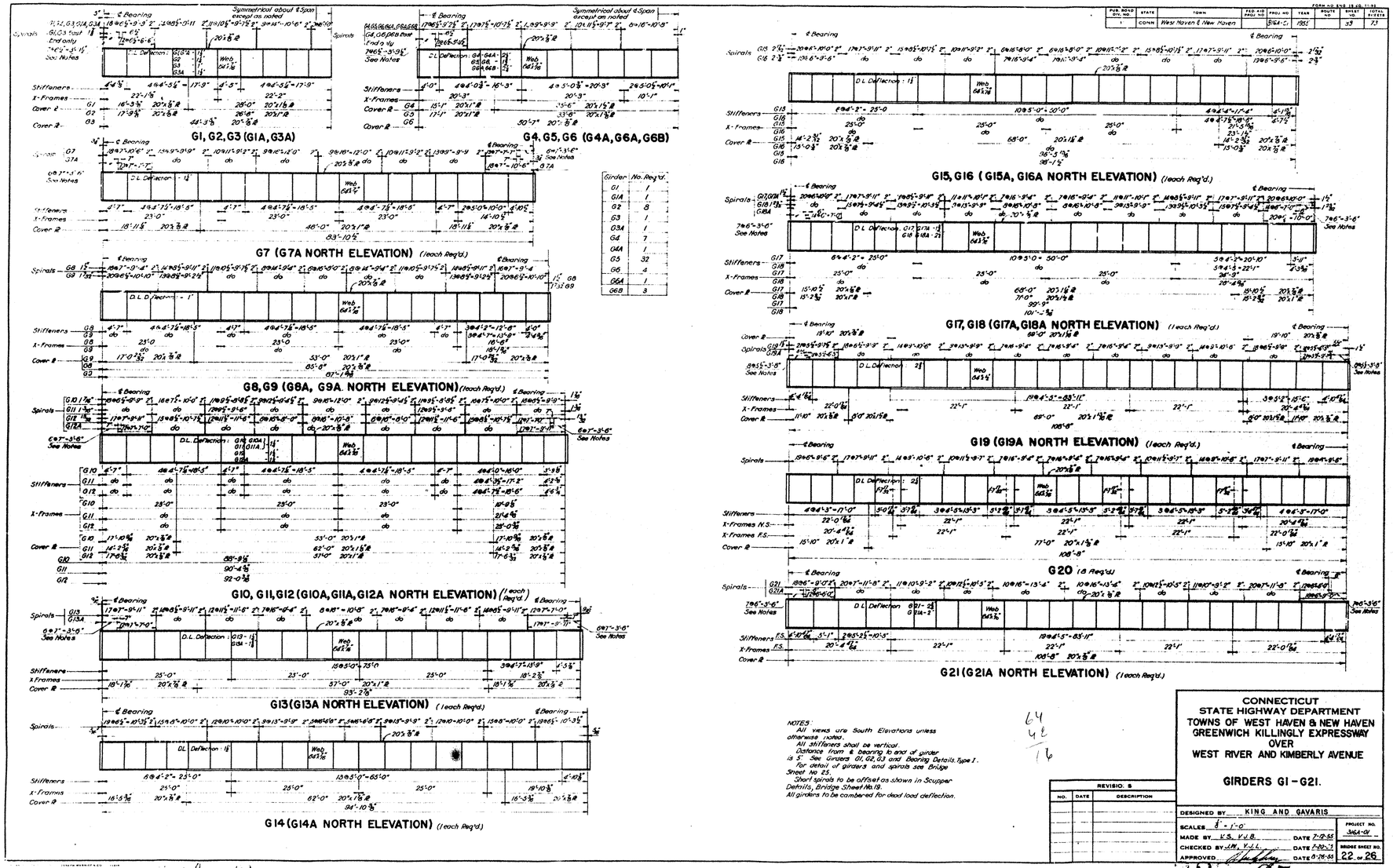
BEARINGS AND JOINTS

DESIGNED BY KING AND GAVARIS
SCALES As noted
MADE BY R.H.H., D.C. DATE 7-8-62
CHECKED BY DATE 8-10-62
APPROVED DATE 8-20-62
PROJECT NO. 340-A-01
PAPER SHEET NO. 21 of 38

320 05

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		364-C	1952		23	73

FORM 140 ENG. 15 (R. 11-55)



Girder	No. Req'd.
G1	1
G1A	1
G2	8
G3	1
G3A	1
G4	7
G4A	1
G5	32
G6	4
G6A	1
G6B	3

NOTES:
All views are South Elevations unless otherwise noted.
All stiffeners shall be vertical.
Distance from ℄ bearing to end of girder is 5". See Girders G1, G2, G3 and Bearing Details Type I.
For detail of girders and spirals see Bridge Sheet No. 25.
Short spirals to be offset as shown in Scupper Details, Bridge Sheet No. 19.
All girders to be cambered for dead load deflection.

64
48
16

REVISIONS		
NO.	DATE	DESCRIPTION

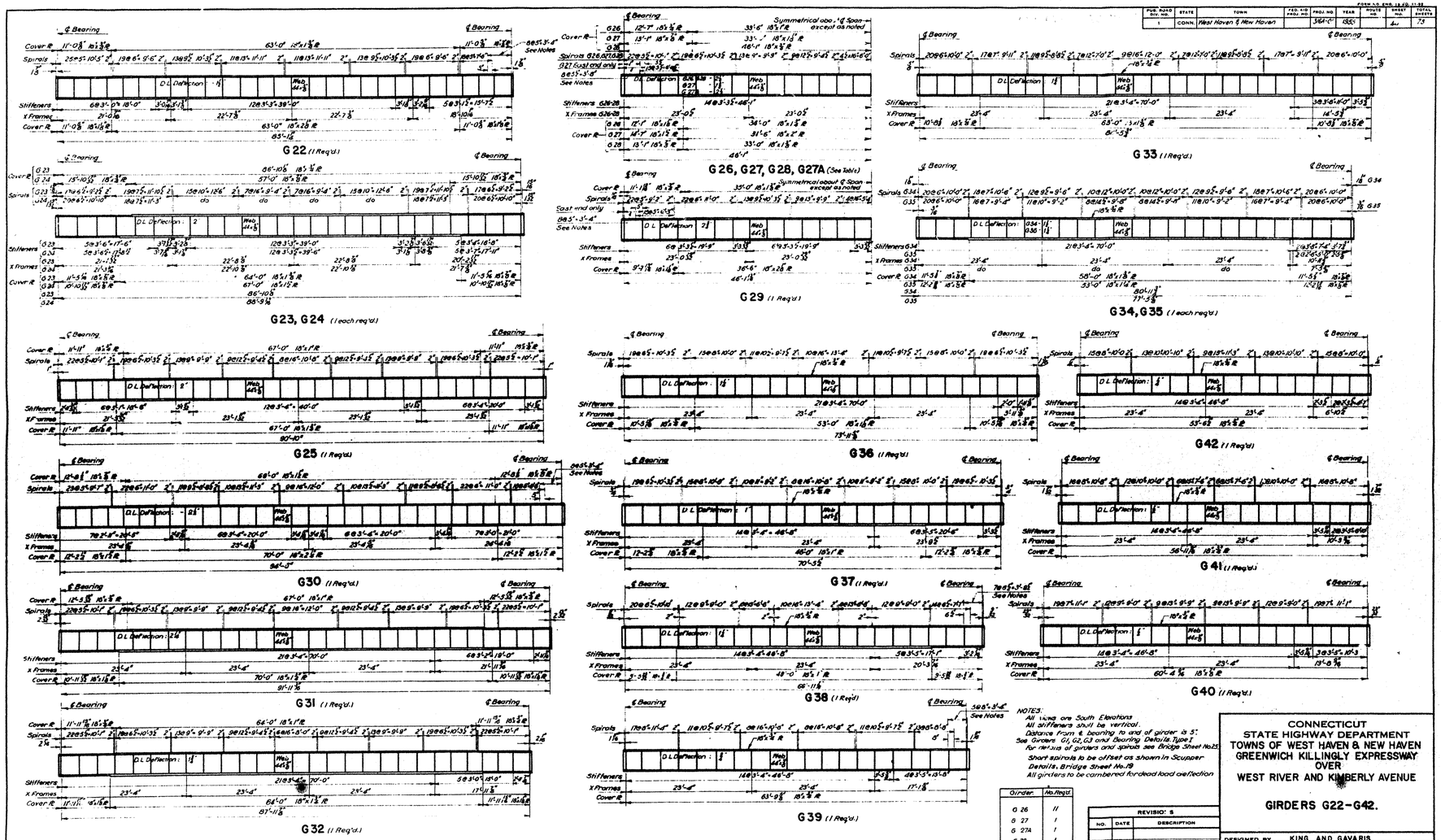
CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

GIRDERS G1 - G21.

DESIGNED BY KING AND GAVARIS
SCALES 1/8" = 1'-0"
MADE BY K.S., V.J.B. DATE 7-12-55
CHECKED BY J.M., V.J.L. DATE 7-20-55
APPROVED DATE 9-28-55
PROJECT NO. 364-01
BRIDGE SHEET NO. 22 OF 26

325-05

FUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		316A-01	1955		40	73



NOTES:
All views are South Elevations
All stiffeners shall be vertical.
Distance from ℄ bearing to end of girder is 5".
See Girders G1, G2, G3 and Bearing Details Type I
For details of girders and spirals see Bridge Sheet No.25.
Short spirals to be offset as shown in Scupper Details, Bridge Sheet No.19
All girders to be cambered for dead load deflection

Girder	No. Req'd.
G 26	11
G 27	1
G 27A	1
G 28	1

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

GIRDERS G22-G42.

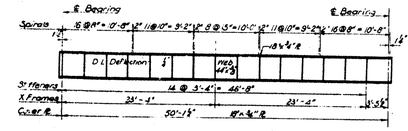
DESIGNED BY KING AND GAVARIS
SCALES 1/8" = 1'-0"
MADE BY K.S. F.W. DATE 7-12-55
CHECKED BY J.W., V.J.L. DATE 7-20-55
APPROVED [signature] DATE 8-26-55
PROJECT NO. 316A-01
BRIDGE SHEET NO. 23 OF 26

316A 01

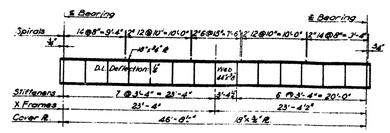
320 05

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	West Haven & New Haven		5161-01	1951		41	73

FORM-D 609.13 AD 11-53



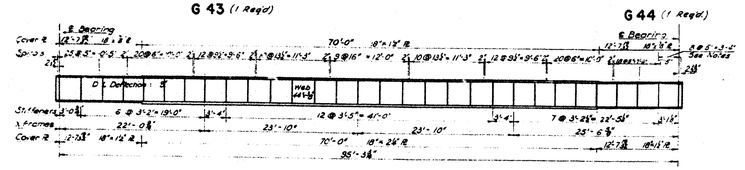
G 43 (1 Req'd)



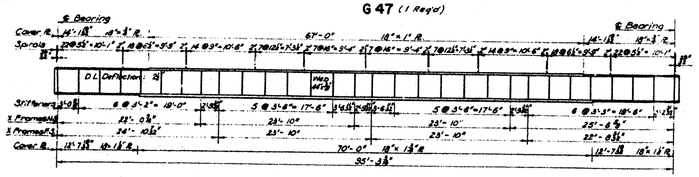
G 44 (1 Req'd)

G 45 (1 Req'd)

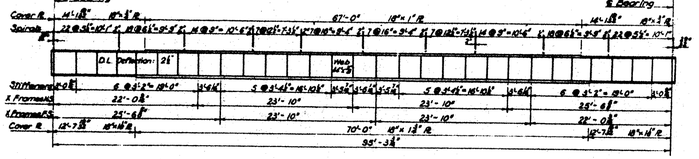
G 46 (1 Req'd)



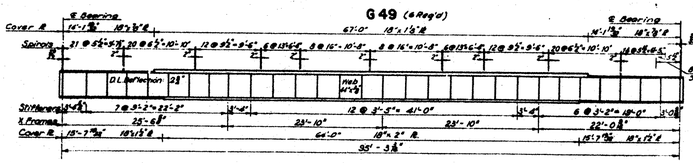
G 47 (1 Req'd)



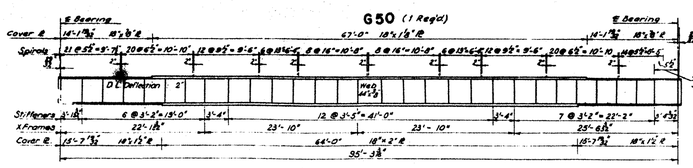
G 48 (1 Req'd)



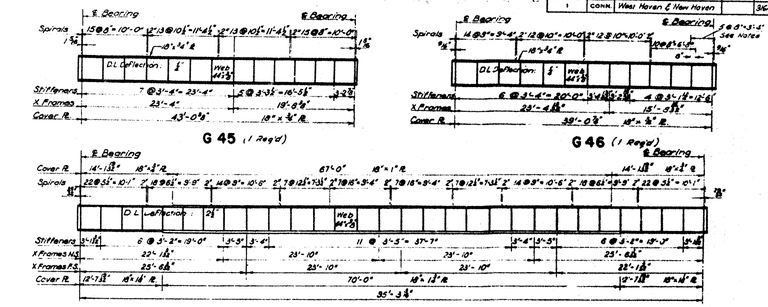
G 49 (1 Req'd)



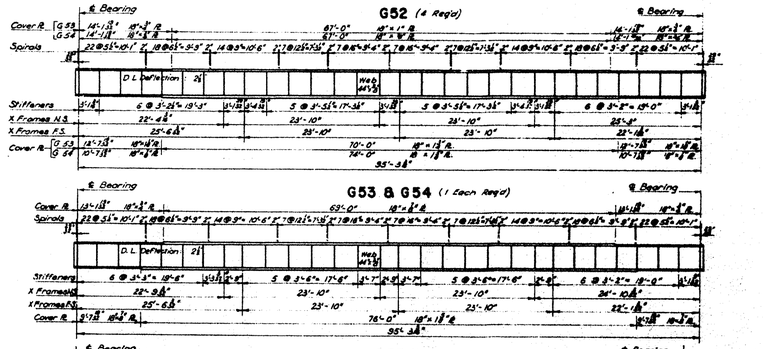
G 50 (1 Req'd)



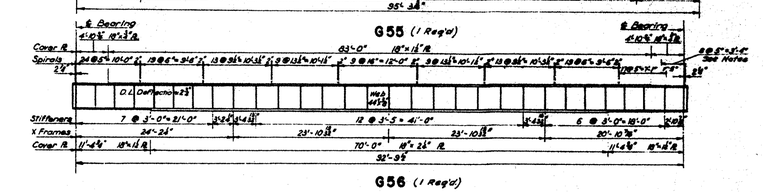
G 51 (1 Req'd)



G52 (4 Req'd)



G53 & G54 (1 Each Req'd)



G55 (1 Req'd)

G56 (1 Req'd)

NOTES:
All views are South Elevations.
All stiffeners shall be vertical.
Distance from ℄ bearing to end of girder is 5".
See Girders G1, G2, G3 and Bearing Details Type 1.
For details of girders and spirals see Bridge Sheet No. 25.
Short Spirals to be off set as shown in Sawyer.
Details, Bridge Sheet No. 19.
All girders to be cambered for dead load deflection.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

GIRDERS G43 – G56

DESIGNED BY KING AND SAVARIS
SCALES ¼" = 1'-0"
MADE BY K.B. D.C. DATE 7-10-56
CHECKED BY J.H. K.J.L. DATE 7-20-56
APPROVED DATE 8-20-56
PROJECT NO. 5161-01
BRIDGE SHEET NO. 24 of 25

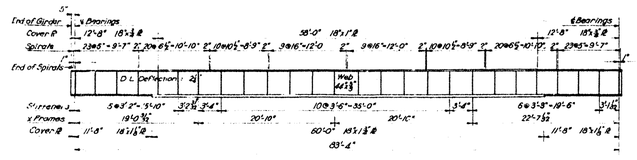
316A . 01

320 05

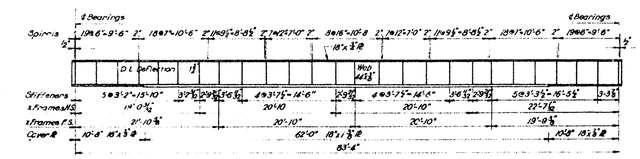
41

PUB. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	West Haven & New Haven		3654-01	1951		22	73

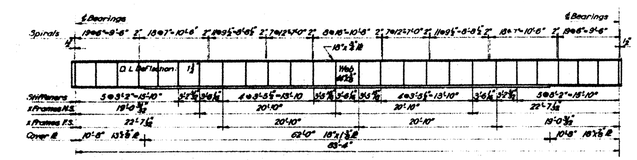
FORM NO. 544, 18 EQ. 11-52



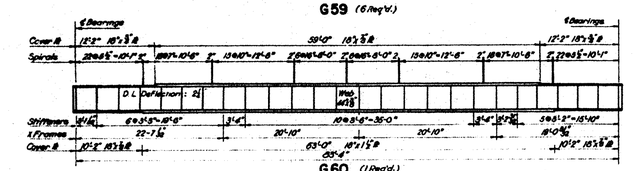
G 57 (1 Req'd.)



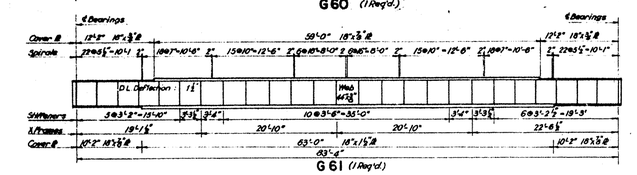
G 58 (1 Req'd.)



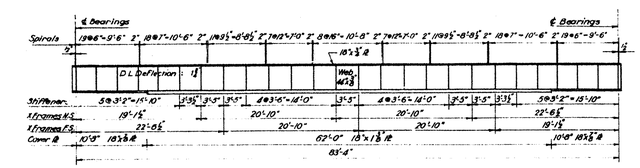
G 59 (6 Req'd.)



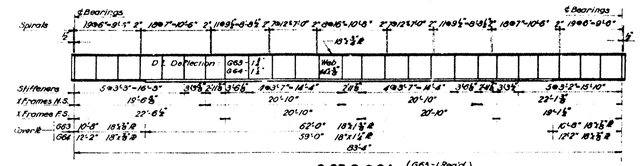
G 60 (1 Req'd.)



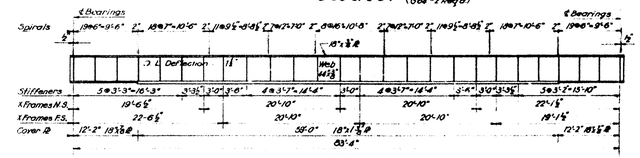
G 61 (1 Req'd.)



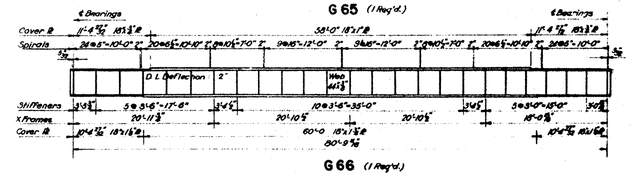
G 62 (4 Req'd.)



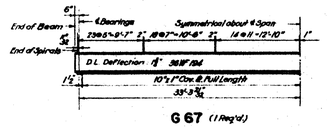
G 63 & G 64 (G63 - 1 Req'd. G64 - 2 Req'd.)



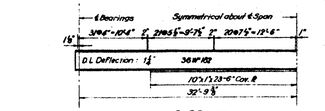
G 65 (1 Req'd.)



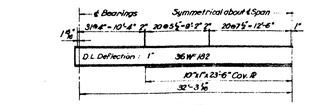
G 66 (1 Req'd.)



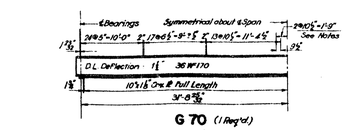
G 67 (1 Req'd.)



G 68 (1 Req'd.)



G 69 (1 Req'd.)



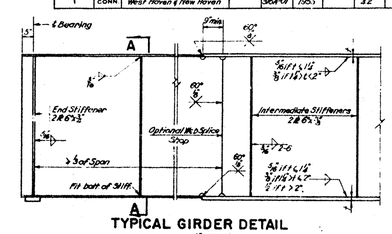
G 70 (1 Req'd.)

G 71 (10 Req'd.)

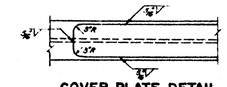
G 72 (10 Req'd.)

G 73 (10 Req'd.)

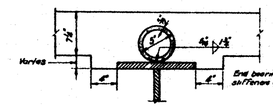
G 74 (10 Req'd.)



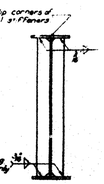
TYPICAL GIRDER DETAIL
Scale ½"=1'-0"



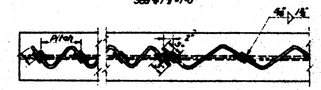
COVER PLATE DETAIL
(G 67 TO G 74)
Scale ⅜"=1'-0"



HAUNCH DETAIL
Scale 1½"=1'-0"



SECTION A-A
Scale ½"=1'-0"



SPIRAL DETAIL
Scale 1"=1'-0"

NOTES:
All views of girders G57 to G66 are South Elevations.
All stiffeners shall be vertical.
Distance from ℄ bearing to end of girder is 5" for girders G57 to G66 inclusive. See G57 and Bearing Details Type I.
Distance from ℄ bearing to end of beam is 6" for beam G67 to G74. See G67 and Bearing Details Type II.
Short spiral to be offset as shown in Scupper Details, Bridge Sheet No. 18.
All girders to be cambered for dead load deflection

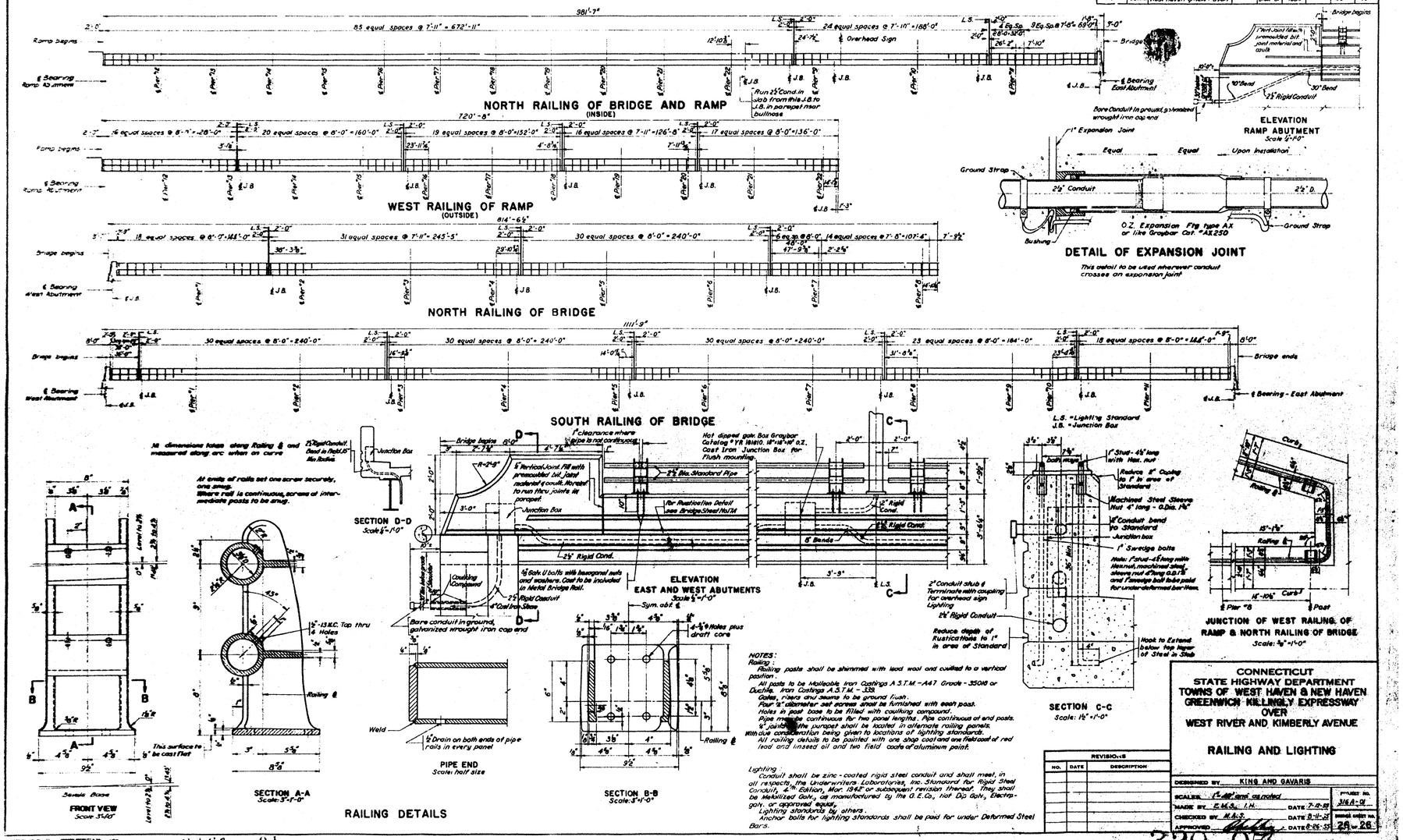
REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

GIRDERS G57 - G74

DESIGNED BY KING AND GAVARIS
SCALES ⅛"=1'-0" and as shown
MADE BY V.S., V.J.B. DATE 7-12-55
CHECKED BY J.H., V.J.L. DATE 7-20-55
APPROVED [signature] DATE 8-26-55
PROJECT NO. 36A-01
BRIDGE SHEET NO. 25 of 26

320 05



NOTES:

Railing:

Railing posts shall be shimmed with lead wool and caulked to a vertical position.

All posts to be Malleable Iron Castings A.S.T.M. - A47 Grade - 35018 or Ductile Iron Castings A.S.T.M. - 339.

Gates, risers and seams to be ground flush.

Four 2" diameter set screws shall be furnished with each post.

Holes in post base to be filled with caulking compound.

Pipe may be continuous for two panel lengths. Pipe continuous at end posts.

½" joints in the parapet shall be located in alternate railing panels.

With due consideration being given to locations of lighting standards.

All railing details to be painted with one shop coat and one field coat of red lead and linseed oil and two field coats of aluminum paint.

Lighting:

Conduit shall be zinc-coated rigid steel conduit and shall meet, in all respects, the Underwriters Laboratories, Inc. Standard for Rigid Steel Conduit, 4th Edition, Mar. 1942 or subsequent revision thereof. They shall be Metallized Galv., as manufactured by the G.E.Co., Hot Dip Galv., Electrogalv. or approved equal.

Lighting standards by others.

Anchor bolts for lighting standards shall be paid for under Deformed Steel Bars.

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF WEST HAVEN & NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
WEST RIVER AND KIMBERLY AVENUE

RAILING AND LIGHTING

DESIGNED BY KING AND GAVARIS
SCALES 1" = 40' and as noted
MADE BY E.M.S., I.H. DATE 7-12-53
CHECKED BY M.A.S. DATE 8-11-53
APPROVED [signature] DATE 8-26-53
PROJECT NO. 316A-01
BRIDGE SHEET NO. 26 of 26

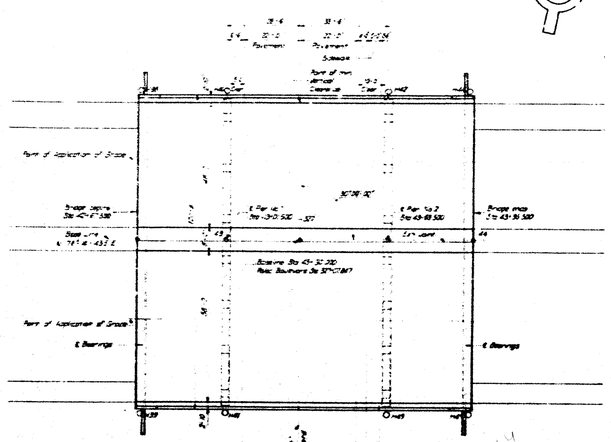
3164 01

320 05

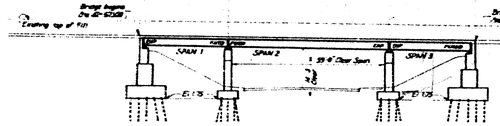
43

FORM NO. CNB-TR 55-10-60

FUS ROAD DIV. NO.	STATE	TOWN	FED AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	New Haven		3164-01	1955		44	77



PLAN
Scale 1"=20'



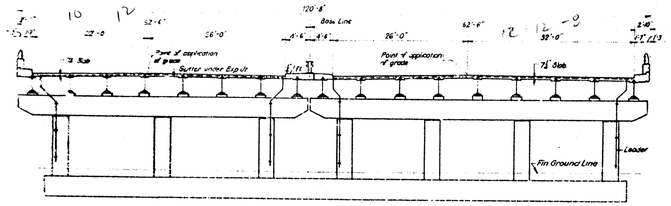
LONGITUDINAL SECTION ON BASE LINE
Scale 1"=20'

14'-2" from Bridge 105

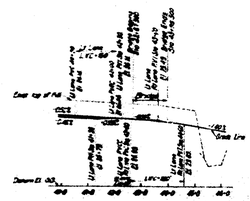
ELEVATION
Scale 1"=20'

CONCRETE DISTRIBUTION	
Wings	504 C.Y.
Substructure	498 C.Y.
Superstructure	438 C.Y.
Total	1440 C.Y.

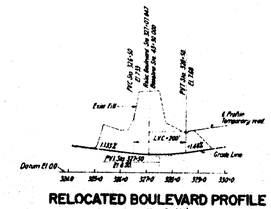
Date Started: 6-15-56
Date Completed: 10-7-57
Final Length: 128.00'
Total Cost $420,614.37



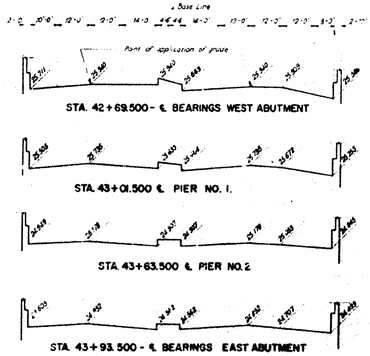
TRANSVERSE SECTION
Scale 1"=10'-0"



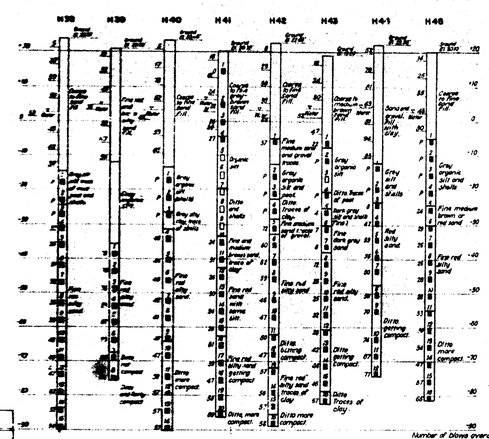
EXPRESSWAY PROFILE
Scales: Hor. 1"=100' Vert. 1"=10'



RELOCATED BOULEVARD PROFILE
Scales: Hor. 1"=200' Vert. 1"=20'



DECK CROSS SECTIONS
Scales: Hor. 1"=20' Vert. 1"=2.5'



BORINGS

Number of blows overlapped over 5 feet to drive 5½" casing 12" with 300 lb hammer falling 40"

Pushed — P

Number of blows to drive 1" spoon 6" with 140 lb hammer falling 30"

LEGEND
Thinwall sample
Sample number
Split tube sample

GENERAL NOTES (Contd)

The elevations shown on the plans are to bottom of steel masonry plates. Pressesa should be finished sufficiently lower to accommodate 3 layers of deck twistbed with red lead paint.

GENERAL NOTES

Specifications: Connecticut State Highway Department Specifications Form 1955, Design Spec. Assembly A.A.S.H.O. 1949 as modified by Connecticut State Highway Department Specifications.

Live Loading: H20-S16-44.

Connecticut Design: Superstructure designed for symmetrical loading for dead load and superimposed dead load. For live load n = 8 and for sidewalk live load not skip fund a wearing surface of 50 p.s.f. n = 20.

Construction of deck is to be done without the use of temporary supports under the steel stringers.

Concrete: shall have a minimum compressive strength of [illegible] p.s.i. in 28 days and shall be classified as follows:

Class "A" concrete to be used in footings and abutments.

Class "B" structural concrete to be used in bridge superstructure.

Class "C" concrete to be used in cast-in-place concrete pipe.

Cost of furnishing and placing joint and seal 8" pipe between [illegible] under concrete item.

All corners or exposed edges of concrete shall be chamfered 1" unless otherwise dimensioned.

Reinforcing bars under bearing surfaces shall be placed in chair blocks [illegible]. Unless otherwise shown on the plans lengths of splice of reinforcing bars shall be as follows:

30 diameters for bars in slabs, longitudinal bars in pier shafts and longitudinal bars in abutments and wingwalls except in back of abutments. Bridge seats where they shall be 36 diameters.

50 diameters for all others.

Unless otherwise shown on the plans the minimum cover of reinforcing bars shall be as follows:

3" in abutment and wingwall footings and in piers.

2" in walls of abutments and wingwalls.

1½" in top of slabs.

1" in bottom of slabs.

Structural Steel: Structural steel for plate girder beams and stringers to A.S.T.M. - A373. All other structural steel shall conform to A.S.T.M.-A7 unless otherwise noted.

Paint: All exposed surfaces of structural steel of shoes, [illegible] shall be painted with one shop coat red oxide (Bulldog) oil and lead base linseed oil and two field coats of color as directed by the Engineer. Surfaces not in contact but inaccessible after assembly or erection shall be painted with three coats of shop paint.

Guardrail: Guardrail are approximate and shall be checked by the contractor in preparing his bid.

Railings are to be figured slightly higher than shown on contract plans and manufactured with pipe sight rail aluminum alloys and are to be brought down to proper elevation by bushhammering or grinding (GENERAL NOTES contd above)

QUANTITIES		
ITEM	UNIT	QUANTITY
Structure Excavation (Complete)	C.Y.	1407
Structure Excavation Complete for Abutment Columns	C.Y.	1140
6" Perf. A.C.C.M. Pipe	L.F.	320
Pipe Pile Sleeves 24" Diam.	L.F.	66
12 D.P. 53. Central Pile (95)	EA.	3
Special 12 D.P. 53 Test Pile (95)	EA.	1
Special 12 D.P. 53 Test Pile (97)	EA.	1
Pile Loading Test (110 Ton)	EA.	2
Class "A" Concrete	C.Y.	1440
½" Premoulded Bituminous Joint Filler for Bridges	S.F.	72
¾" Premoulded Bituminous Joint Filler for Bridges	S.F.	168
⅞" Premoulded Bituminous Joint Filler for Bridges	S.F.	149
1" Premoulded Bituminous Joint Filler for Bridges	S.F.	50
Furnishing Steel Piles	lbs.	1405546
Deformed Steel Bars	lbs.	229534
Structural Steel	lbs.	358489
Spiral Shear Connectors & Bars	lbs.	2588
Copper Gutters and Leaders (20 oz)	lbs.	210
Dampproofing	SY.	588
Metal Bridge Rail	L.F.	216
Pervious Structure Backfill	C.Y.	781
Portland Cement	bbl.	3023
Natural Cement	bbl.	534
Driving Steel Piles	L.F.	26488
Splicing Steel Piles	EA.	18
Junction Box (18"x18"x10')	EA.	6
5" Rigid Steel Conduit	L.F.	20
5½" Rigid Steel Conduit	L.F.	326
6" A.C.C.M. Pipe	L.F.	68

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
RELOCATED BOULEVARD

GENERAL PLAN AND ELEVATIONS

DESIGNED BY: KING AND GAVARIS
SCALES: As noted
MADE BY: R.L.A., L.M.L. DATE 7-18-57
CHECKED BY: M.A.S. DATE 8-12-57
APPROVED BY: [illegible] DATE [illegible]
FOR SHEET NO. 3164-01
STATE PROJECT NO.

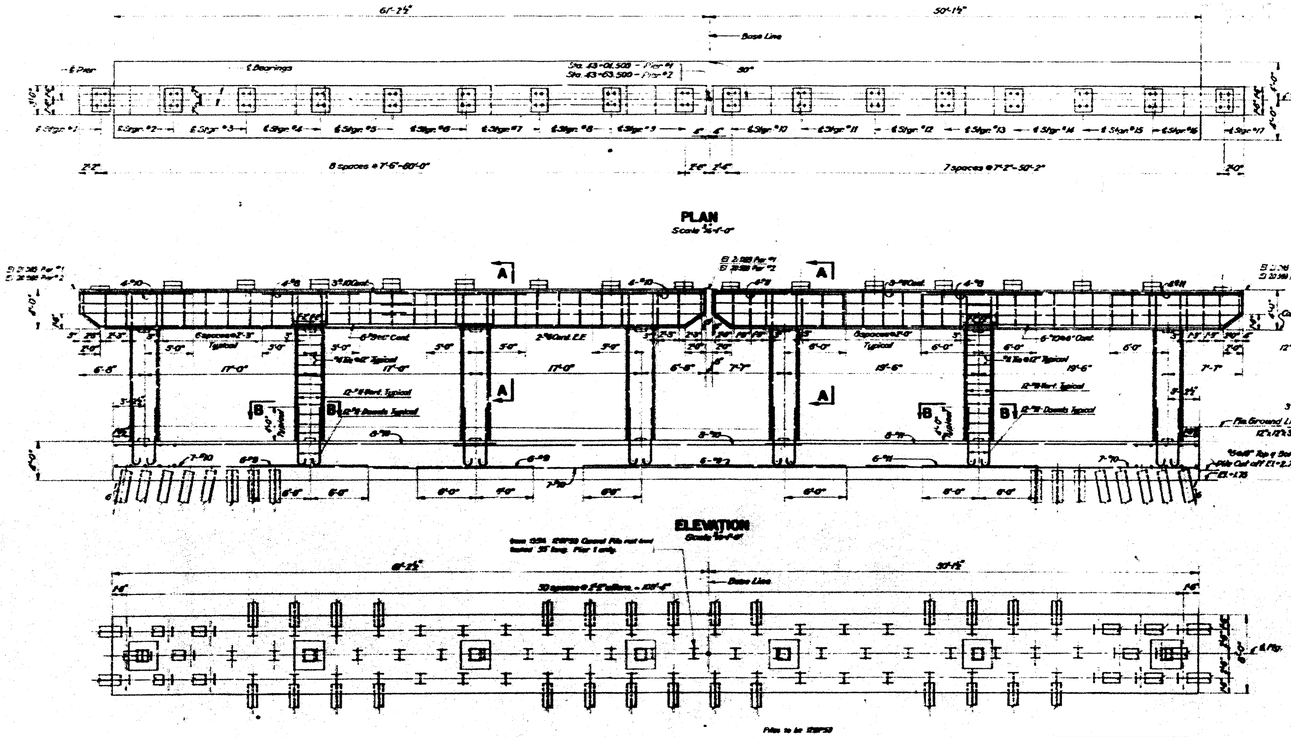
320 05

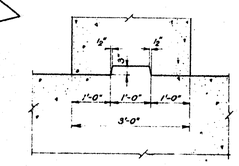
44

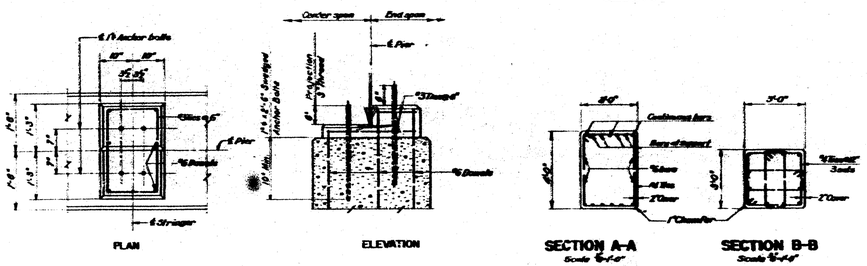
0164

PUB. ROAD SYS. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	New Haven		316A-01	1956		46	73

FORM NO. ENG. 15 CO. 11-56

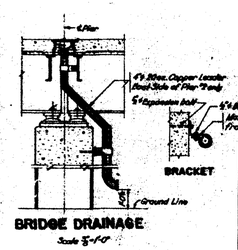






BEARING ELEVATIONS				
STRINGER No.	PIER No.1		PIER No.2	
	End span	Center span	Center span	End span
1	21.388	21.369	20.901	20.889
2	22.027	21.545	20.522	20.510
3	22.165	21.672	20.657	21.247
4	22.367	21.796	21.196	21.636
5	22.346	21.805	21.365	21.955
6	22.296	21.788	21.477	21.897
7	22.239	21.768	21.493	21.785
8	22.185	21.656	21.487	21.547
9	22.081	21.552	20.963	21.439
10	22.398	21.549	20.941	21.481
11	22.276	21.761	21.485	21.592
12	22.092	21.782	21.489	21.529
13	22.399	21.829	21.495	21.655
14	22.349	21.804	21.277	21.781
15	22.276	21.763	21.151	21.641
16	22.189	21.629	21.089	21.529
17	22.022	21.614	21.050	20.990

NOTE: Elevations are to bottom of steel/masonry pile



NOTES:
Maximum pile load in tons:
DL + LL 20
Negative friction 26
Total 22
Estimated length of piles 40'-50'
For pile details see Bridge Sheet 3 of 16

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
RELOCATED BOULEVARD

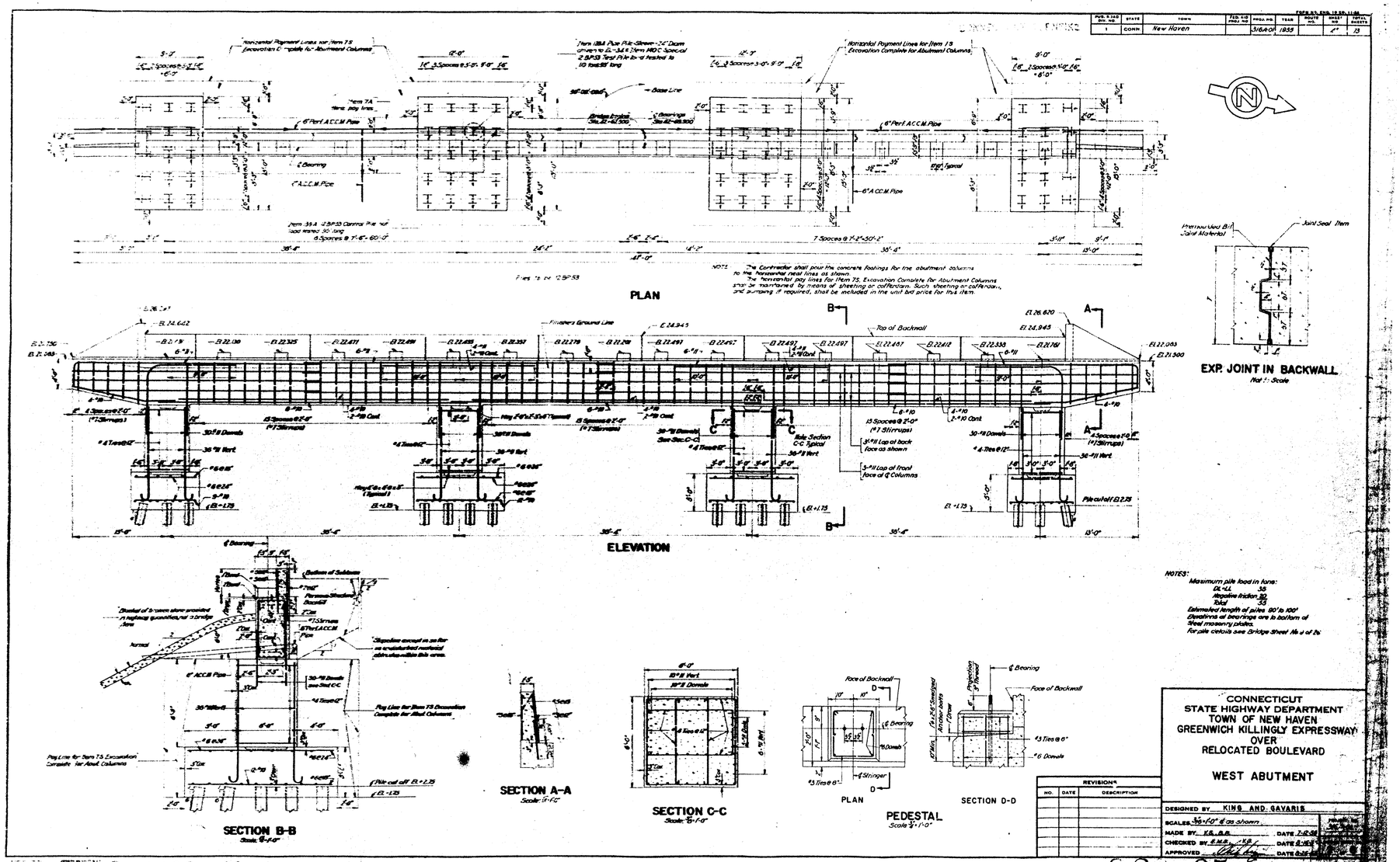
PIERS 1 & 2

DESIGNED BY HING AND GAUDER
SCALE As noted
MADE BY K.H.L., E.J.B.
CHECKED BY M.A.A. V.E.
APPROVED

316A 01

320.05

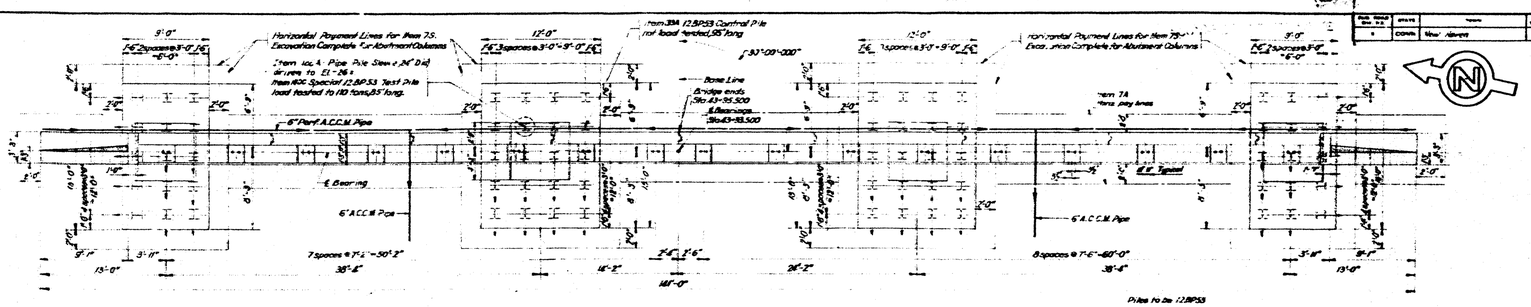
FED. & STATE PROJ. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	New Haven		316A01	1959		21	13



316A 01

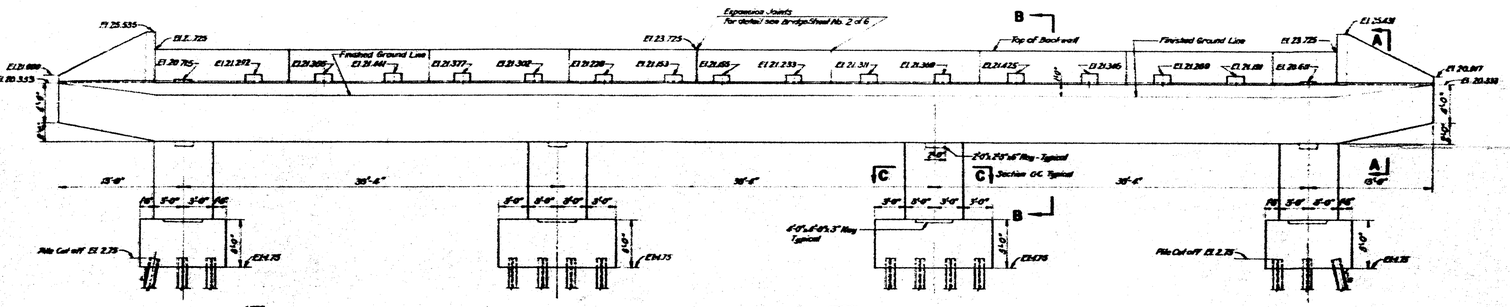
320 05

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	New Haven		66A-1-P	1955		17	73



PLAN

NOTE: The Contractor shall pour the concrete footings for the abutment columns to the horizontal neat lines as shown.
The horizontal pay lines for Item 7S, Excavation Complete for Abutment Columns shall be maintained by means of sheeting or cofferdams. Such sheeting or cofferdam, and pumping if required, shall be included in the unit bid price for this item.

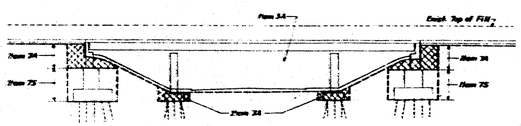


NOTE:
Reinforcing for Cast Abutment same as Pier Reinforcing See Bridge Sheet 2 of 6

ELEVATION

NOTE:
For Sections A-A, B-B & C-C see Bridge Sheet No. 2 of 6

NOTES:
Maximum pile load in tons:
DL + LL 36
Negative friction 32
Total 68
Calculated length of piles 60'-00"
Elevations of bearings are to bottom of neat masonry plate.
For Sections A-A, B-B & C-C and reinforcement see Bridge Sheet No. 2 of 6.
For pile details see Bridge Sheet No. 3 of 76.



SKETCH OF VERTICAL PAY LIMITS FOR EXCAVATION ITEMS

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
RELOCATED BOULEVARD

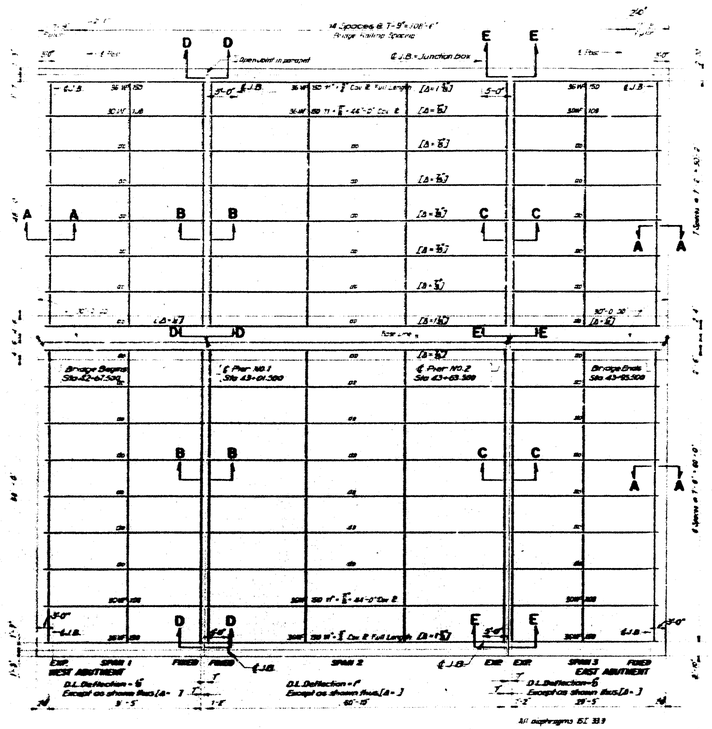
EAST ABUTMENT

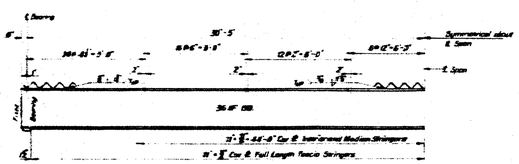
DESIGNED BY KING AND GAVARIS
SCALE 1/4"=1'-0"
DRAWN BY F.E.C.R. DATE 7-6-54
CHECKED BY E.R.S. FOR DATE 7-9-54
APPROVED DATE 8-2-54

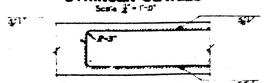
316A 01

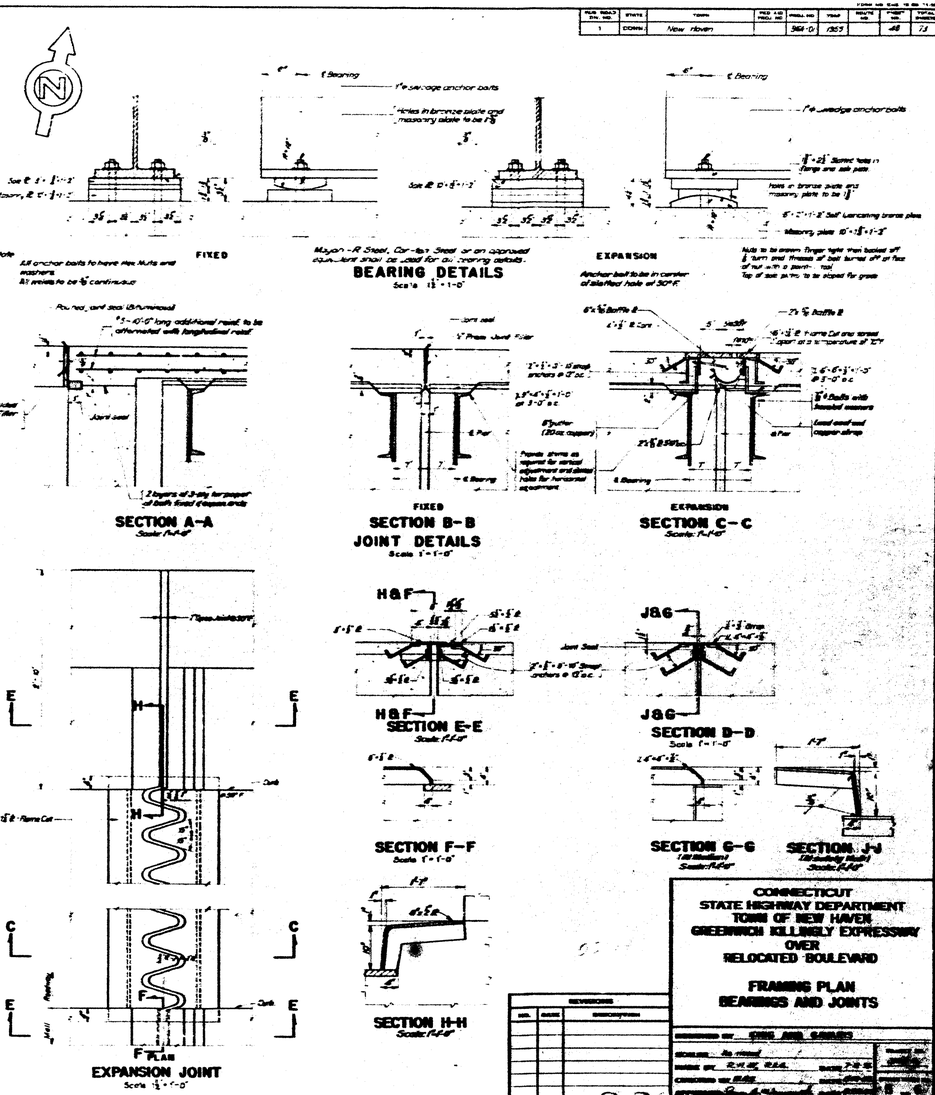
320 05

FED. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
1	CONN.	New Haven		366-0	1959	48	73









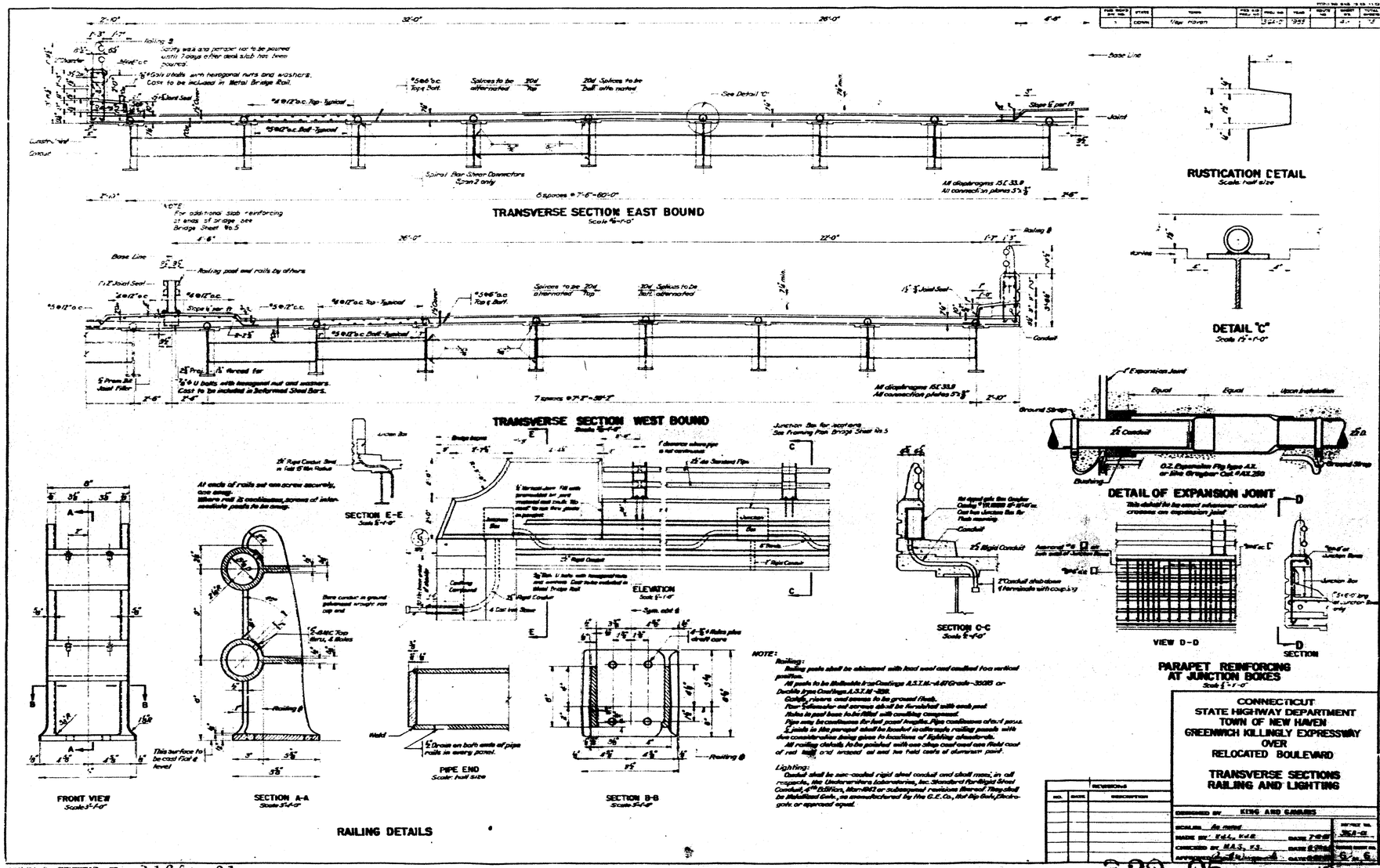
CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
RELOCATED BOULEVARD

FRAMING PLAN
BEARINGS AND JOINTS

3166 01

320 03

FED. ROUTE NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	New Haven		324-2	1955		4	7



CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW HAVEN
GREENWICH KILLINGLY EXPRESSWAY
OVER
RELOCATED BOULEVARD

TRANSVERSE SECTIONS
RAILING AND LIGHTING

DESIGNED BY KING AND GIBBINS
SCALES As noted
MADE BY E.G.L., W.E.B. DATE 7-9-57
CHECKED BY H.A.S., F.S. DATE 8-9-57
APPROVED DATE 8-22-57

NO.	DATE	DESCRIPTION

316A 01

320 05

BRIDGE NO. 13
EAST BOUND LANE
1-2 WEST BLVD