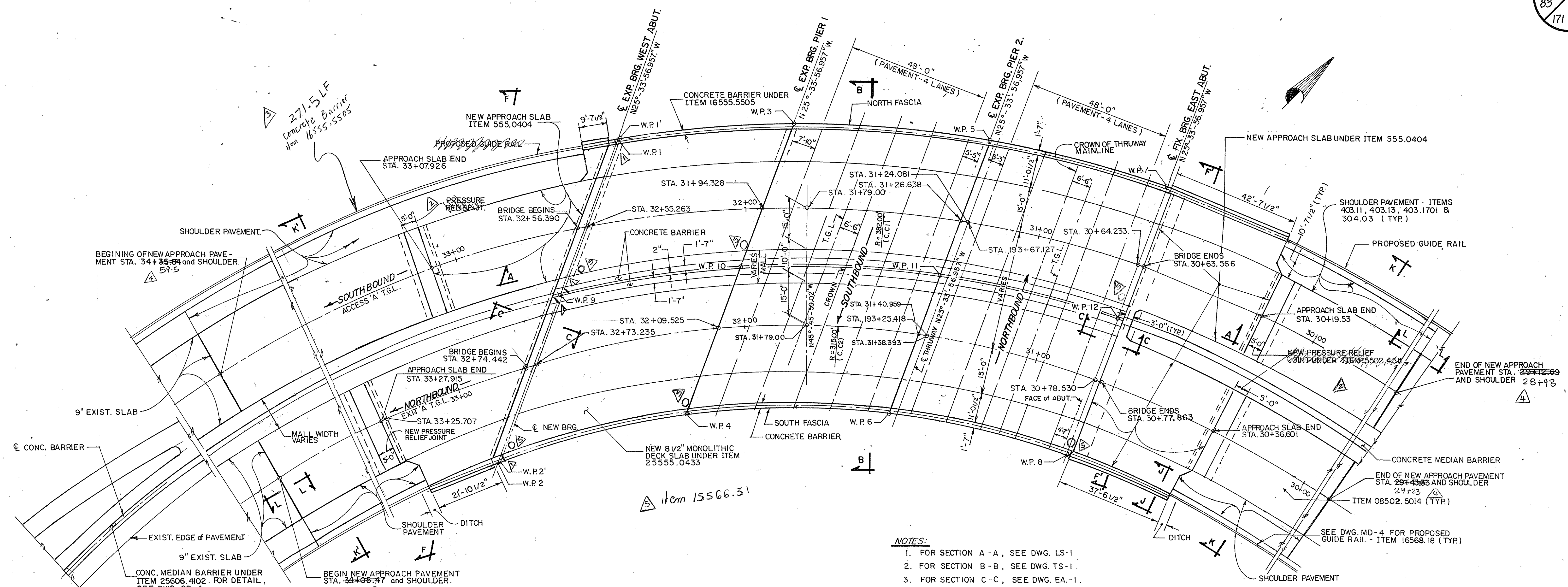


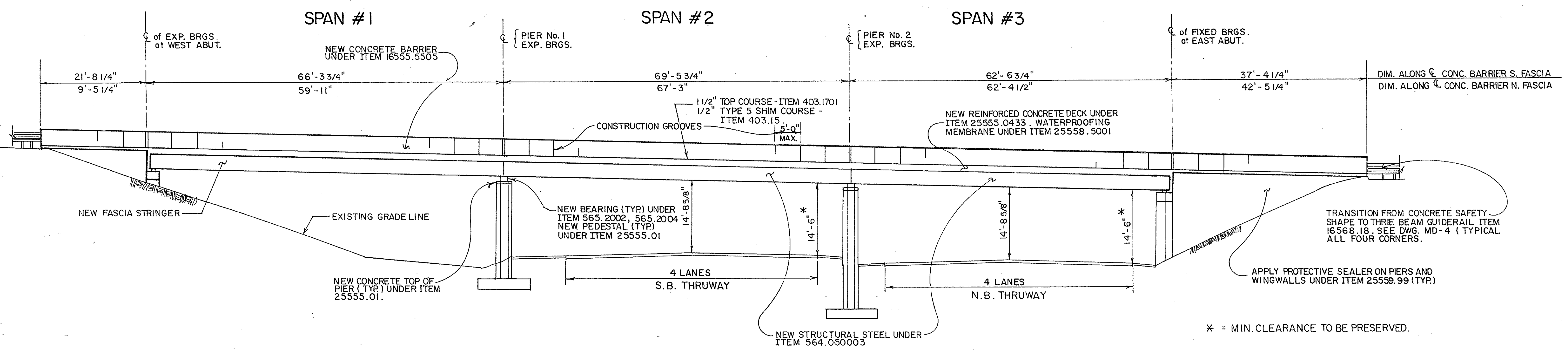
CHECKED BY: T. Mohr
 DESIGNED BY: T. Mohr
 IN CHARGE OF: [Signature]



PROPOSED PLAN I
SCALE: 1/16" = 1'-0"

- NOTES:**
1. FOR SECTION A-A, SEE DWG. LS-1
 2. FOR SECTION B-B, SEE DWG. TS-1
 3. FOR SECTION C-C, SEE DWG. EA-1
 4. FOR SECTIONS F-F, F'-F', K-K, K'-K', & L-L SEE DWG. AS-1
 5. FOR SECTION J-J, SEE DWG. EA-2
 6. FOR DETAILS OF PRESSURE RELIEF JOINT, SEE DWG. AR-1
 7. FOR CONSTRUCTION SEQUENCE, SEE DWG. CS-1
 8. FOR COORDINATES OF WORKING POINTS, SEE DWG. WD-1
 9. FOR CONCRETE BARRIER DETAILS, SEE DWG. BD-1
 10. ANY AREAS DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. ANY TOPSOIL AND SEEDING REQUIRED SHALL BE AT CONTRACTOR'S EXPENSE, COST IN ALL ITEMS OF WORK - NO SEPARATE PAYMENT.

T.G.L. = THEORETICAL GRADE LINE



PROPOSED SOUTH ELEVATION
(DEVELOPED)
SCALE: 3/32" = 1'-0"

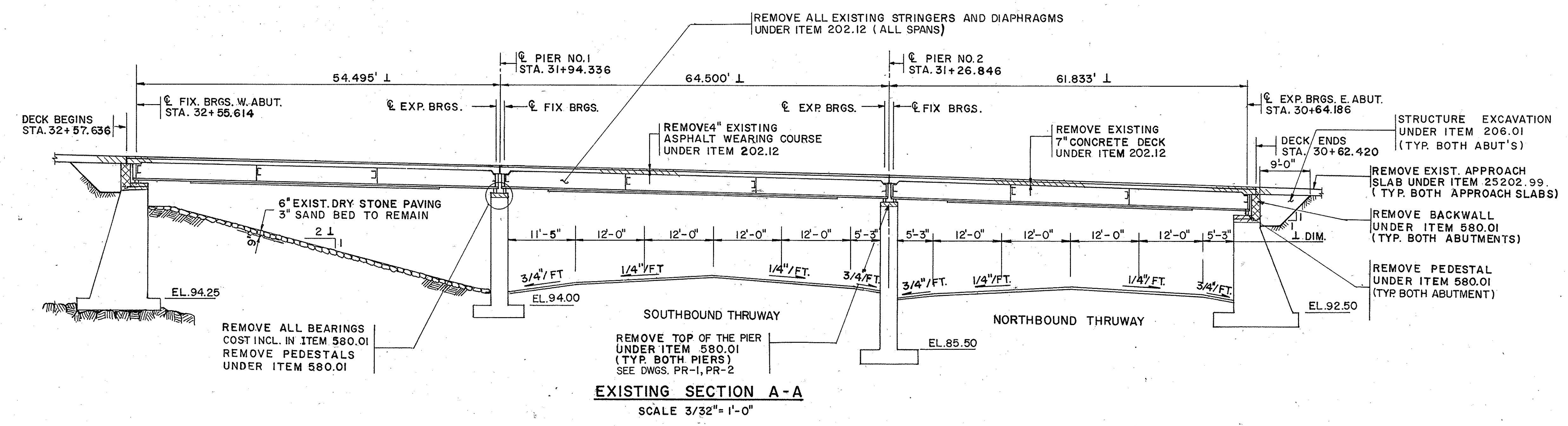
BIN 5513969			
W. Abutment	Modification	Item 15566.31	
E. Abutment	Modification	Item 15566.31	
Concrete Barrier	Modification	Item 15566.31	
Approach Pavement	Modification	Item 15566.31	
DATE	DESCRIPTION	BY	SYM.
REVISIONS NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209 TITLE OF PROJECT SOUTH NYACK INTERCHANGE LOCATION OF PROJECT MILEPOST 16.75 ± TITLE OF DRAWING PROPOSED PLAN & ELEVATION			
CONTRACT NUMBER: TANY 94-5B		DATE: DEC. 1993	
DRAWING NUMBER: PP-1			

CHECKED BY T. Mohr

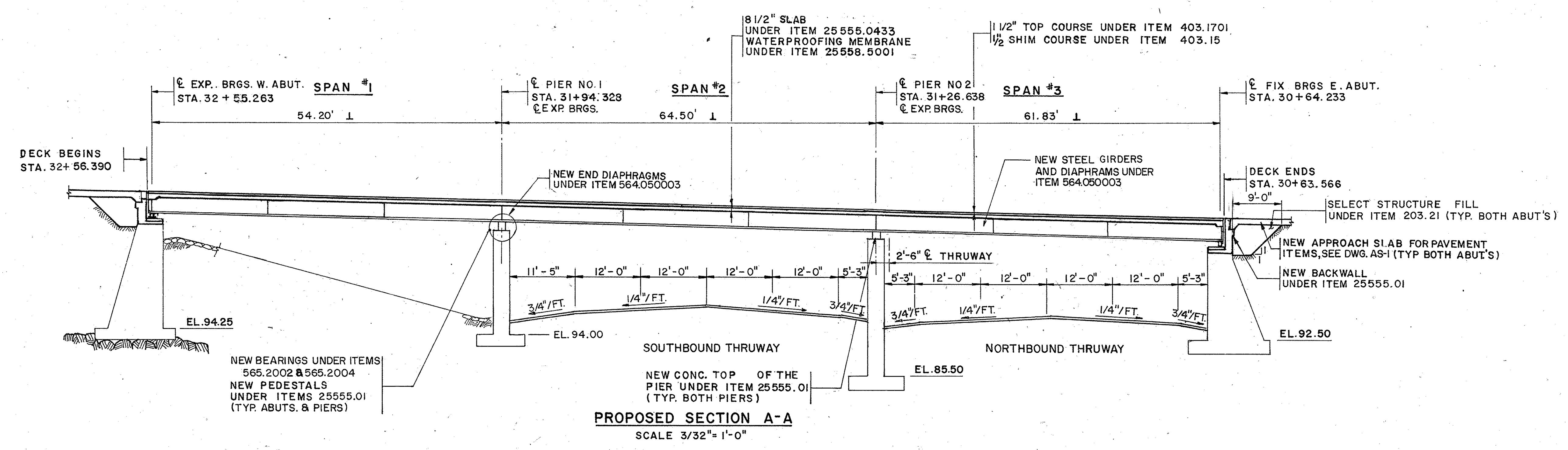
DRAFTED BY

DESIGNED BY T. Mohr

IN CHARGE OF



- NOTES:**
1. ALL REMOVED BEARINGS SHALL BE DELIVERED TO NEW YORK STATE THRUWAY AUTHORITY, BRIDGE MAINTENANCE UNIT (TO REMAIN PROPERTY OF THE AUTHORITY) (NEW YORK DIVISION, TARRYTOWN, N.Y.) ITEM 580.01
 2. ALL STATIONING REFERS TO SB ACCESS "A".
 3. PROVIDE SAFE OPERATION SHEET PILING AS REQUIRED DURING EXCAVATION UNDER ITEM 552.05 SEE DWG. CS-1
 4. IF DRY STONE PAVING IS DISTURBED IT SHALL BE REPLACED AT CONTRACTORS EXPENSE.



NOTE: ALL STATIONING REFER TO SB ACCESS "A" TGL LINE

BIN 5513969

IFFLAND KAVANAGH WATERBURY, P.C.
NEW YORK, NEW YORK.

NO.	BY:	DESCRIPTION	DATE

UNAUTHORIZED ALTERATION OF, OR ADDITION TO, THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 2209.

NEW YORK STATE
THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
SERVICES
200 SOUTHERN BLVD., ALBANY N. Y. 12209.

TITLE OF PROJECT
SOUTH NYACK INTERCHANGE

LOCATION OF PROJECT
MILEPOST 16.75

TITLE OF DRAWING
LONGITUDINAL
SECTIONS

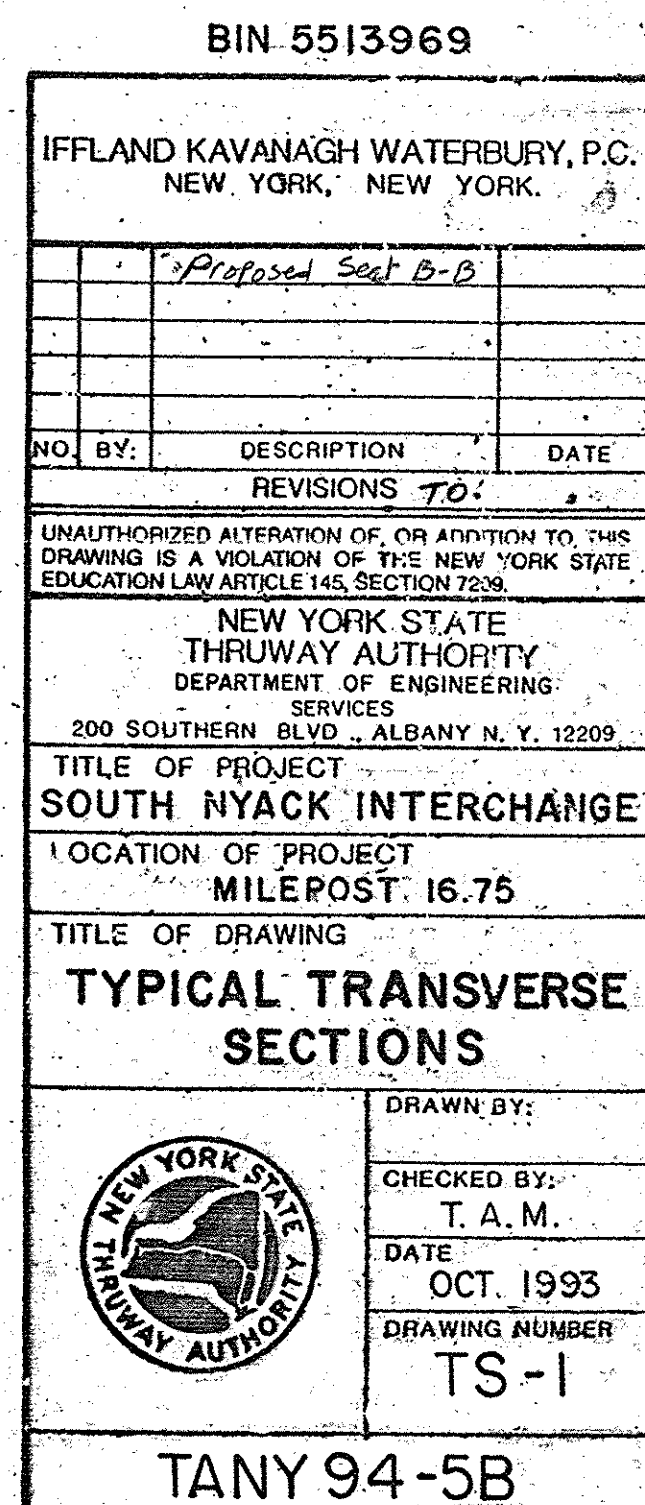
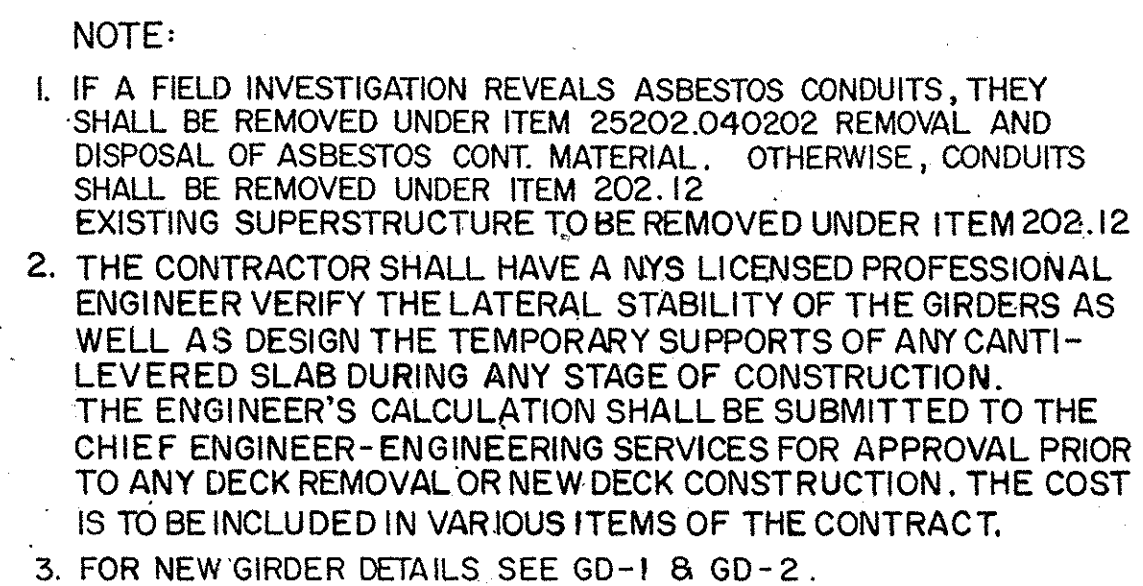
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T.A.M.

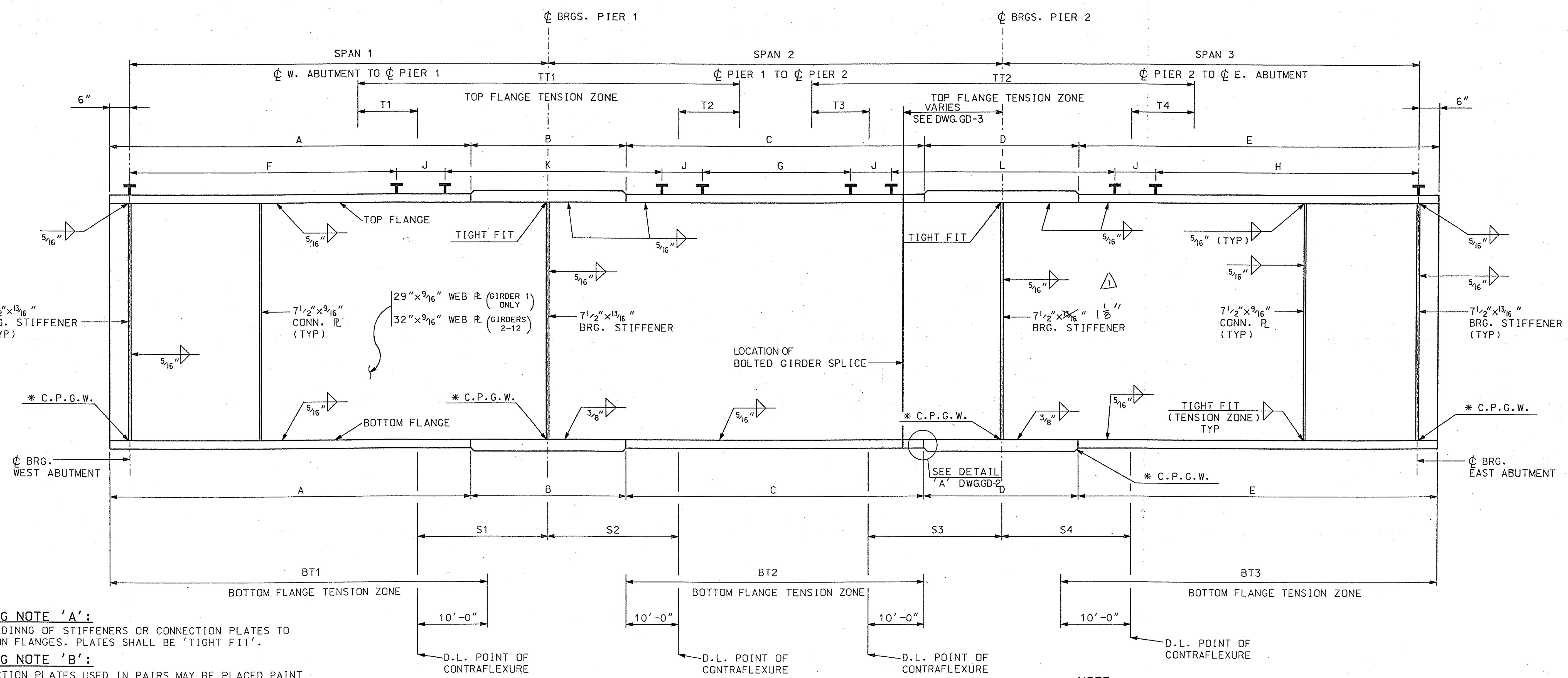
DATE
OCT, 1993

DRAWING NUMBER
LS-1

TANY 94-55







WELDING NOTE 'A':

NO WELDING OF STIFFENERS OR CONNECTION PLATES TO TENSION FLANGES. PLATES SHALL BE 'TIGHT FIT'.

WELDING NOTE 'B':

CONNECTION PLATES USED IN PAIRS MAY BE PLACED PAINT TIGHT AGAINST BOTH FLANGES AND NOT WELDED TO EITHER FLANGE. AS AN ALTERNATE, STIFFENERS AND CONNECTION PLATES MAY BE CUT 1/8" SHORT AND THEN PLACED PAINT TIGHT AGAINST THE TENSION FLANGE AND WELDED TO THE COMPRESSION FLANGE. THE WELD SIZE AT THE COMPRESSION FLANGE SHALL BE INCREASED BY THE AMOUNT OF THE GAP AS DESCRIBED IN ARTICLE 1101.1 OF THE STEEL CONSTRUCTION MANUAL. FITTED STIFFENERS AND CONNECTION PLATES SHALL NOT BE DRIVEN IN PLACE WITH SUFFICIENT FORCE TO DISTORT THE FLANGE, WEB, STIFFENER OR CONNECTION PLATES.

TYPICAL GIRDER ELEVATION
N.T.S.

NOTE:

- * C.P.G.W. = COMPLETE JOINT PENETRATION GROOVE WELD.
- ALL STRUCTURAL STEEL SHALL BE PAID FOR UNDER ITEM 564.050003 (LS).
- FOR TYPICAL GIRDER SECTION SEE DWG. GD-2.
- FOR FRAMING PLAN SEE DWG. FP-2.
- FOR SHEAR CONNECTOR DETAILS SEE DWG. GD-2.
- FOR MOMENT AND SHEAR TABLES SEE DWG. MS-1.
- FOR HAUNCH TABLE SEE DWG. HT-1.
- FOR CAMBER TABLE SEE DWG. CT-1.
- FOR GIRDER SPLICES SEE DWG. GD-3.

MARK	RADIUS OF CURVATURE	SPAN 1 LENGTH	SPAN 2 LENGTH	SPAN 3 LENGTH	TOTAL OF 3 SPANS	DIAPHRAGM SPACING	DEAD LOAD POINT OF CONTRAFLEXURE				TOP AND BOTTOM FLANGE LENGTH AND SIZE																TOP FLANGE TENSION ZONE								BOTTOM FLANGE TENSION ZONE				SECTIONS WITH 6" X ³ / ₄ " Ø STUDS								WITH OUT STUDS			
											A		B		C		D		E														F		G		H		J		K		L							
							S1	S2	S3	S4	LENGTH	SIZE (IN)	LENGTH	SIZE (IN)	LENGTH	SIZE (IN)	LENGTH	SIZE (IN)	LENGTH	SIZE (IN)	LENGTH	SIZE (IN)	TT1	TT2	T1	T2	T3	T4	BT1	BT2	BT3	LENGTH	SPA.	LENGTH	SPA.	LENGTH	SPA.	LENGTH	SPA.	LENGTH	SPA.	LENGTH	SPA.							
G1	291.1441	65.9311	69.3519	62.5450	197.8280	14.9465	13.62	17.23	15.79	13.61	60.4311	T. 14 X 1 1/8 B. 16 X 1 1/8	14.000	T. 14 X 1 1/8 B. 16 X 1 1/4	54.3519	T. 14 X 1 1/8 B. 16 X 1 1/8	14.000	T. 14 X 1 1/8 B. 16 X 1 1/2	56.0450	T. 14 X 1 1/8 B. 16 X 1 1/8	52.85	51.40	10.0	12.0	12.0	10.0	62.81	56.33	59.44	50'-7 1/2"	63 3/4"	33'-7"	61 1/2"	47'-4 3/4"	61 1/4"	2'-6"	5"	28'-10 7/8"	27'-3 3/4"											
G2	299.1441	65.0984	69.0636	62.5081	196.6701	15.3572	15.48	16.75	16.52	13.95	57.5984	T. 14 X 1 1/8 B. 16 X 1 1/8	18.000	T. 14 X 1 1/2 B. 16 X 2 1/4	52.0636	T. 14 X 1 1/4 B. 16 X 1 1/8	14.000	T. 14 X 1 1/8 B. 16 X 1 1/2	56.0081	T. 14 X 1 1/8 B. 16 X 1 1/8	55.23	51.47	10.0	13.0	11.0	10.0	60.12	55.79	59.06	47'-11"	53 3/4"	32'-9 3/4"	61 1/4"	46'-11 1/2"	53 3/4"	2'-6"	5"	30'-5 1/8"	28'-6 3/4"											
G3	307.1441	64.3590	68.8014	62.4746	195.6350	15.7679	15.55	17.91	17.06	14.05	56.8590	T. 14 X 1 1/8 B. 16 X 1 1/8	17.000	T. 14 X 1 1/4 B. 16 X 2 1/4	52.8014	T. 14 X 1 1/4 B. 16 X 1 1/8	14.000	T. 14 X 1 1/8 B. 16 X 1 1/2	55.9746	T. 14 X 1 1/8 B. 16 X 1 1/8	53.46	51.11	10.0	10.0	10.0	10.0	59.31	53.83	58.92	47'-4 3/4"	61 1/4"	31'-3"	61 1/4"	46'-9 3/4"	51 1/4"	2'-6"	5"	31'-2"	29'-0 1/8"											
G4	315.1441	63.6986	68.5619	62.4438	194.7043	16.1786	15.80	18.28	17.42	13.99	56.1986	T. 14 X 1 1/8 B. 16 X 1 1/8	17.000	T. 14 X 1 1/4 B. 16 X 2 1/4	52.5619	T. 14 X 1 1/4 B. 16 X 1 1/8	14.000	T. 14 X 1 1/8 B. 16 X 1 1/2	55.9438	T. 14 X 1 1/8 B. 16 X 1 1/8	54.08	51.41	10.0	10.0	10.0	10.0	58.40	52.86	58.95	46'-4 1/4"	61 1/4"	30'-4"	7"	47'-0"	6"	2'-6"	5"	31'-10 5/8"	29'-1 1/2"											
G5	323.1441	63.1058	68.3423	62.4160	193.8641	16.5893	15.44	17.77	17.65	13.74	55.6058	T. 14 X 1 1/8 B. 16 X 1 1/8	17.000	T. 14 X 1 1/4 B. 16 X 2 1/4	52.3423	T. 14 X 1 1/4 B. 16 X 1 1/8	14.000	T. 14 X 1 1/8 B. 16 X 1 1/2	55.9160	T. 14 X 1 1/8 B. 16 X 1 1/8	59.21	51.39	10.0	16.0	10.0	10.0	58.17	52.92	59.18	46'-3"	5"	30'-2 1/2"	61 1/4"	47'-0"	6"	2'-6"	5"	30'-11 3/4"	29'-5 1/8"											
G6	331.1441	62.5708	68.1408	62.3904	193.1020	17.0000	14.73	17.03	18.52	14.00	56.0708	T. 14 X 1 1/8 B. 16 X 1 1/8	16.000	T. 14 X 1 1/4 B. 16 X 2 1/4	50.1408	T. 14 X 1 1/8 B. 16 X 1 1/8	16.000	T. 14 X 1 1/8 B. 16 X 2 1/8	55.8904	T. 14 X 1 1/8 B. 16 X 1 1/8	59.76	54.52	10.0	18.0	12.0	10.0	58.34	52.59	58.82	46'-6"	6"	30'-0"	6"	46'-9"	5 1/2"	2'-6"	5"	29'-4 3/4"	30'-5 1/2"											
G7	365.2880	61.7088	68.0160	62.4950	192.2198	15.2908	14.18	16.59	16.19	14.09	54.2088	T. 12 X 1 1/8 B. 16 X 1 1/8	17.000	T. 12 X 1 1/4 B. 16 X 1 1/2	51.0160	T. 12 X 1 1/4 B. 16 X 1 1/8	15.000	T. 12 X 1 1/4 B. 16 X 1 1/4	55.9950	T. 12 X 3/4 B. 16 X 1 1/8	53.77	53.28	10.0	13.0	13.0	10.0	58.03	55.24	58.91	46'-0 1/2"	61 1/2"	32'-6"	6 1/2"	47'-0"	6"	2'-6"	5"	28'-7 1/2"	28'-0 5/8"											
G8	373.4547	61.3138	67.8501	62.4691	191.6330	15.6326	14.33	17.15	16.88	14.34	53.8138	T. 12 X 1 1/8 B. 16 X 1 1/8	17.000	T. 12 X 1 1/4 B. 16 X 1 1/2	50.8501	T. 12 X 1 1/4 B. 16 X 1 1/8	15.000	T. 12 X 1 1/4 B. 16 X 1 1/4	55.9691	T. 12 X 3/4 B. 16 X 1 1/8	51.48	51.22	10.0	10.0	10.0	10.0	57.48	53.82	58.63	45'-6"	6"	30'-10 1/2"	61 1/2"	46'-5 3/4"	53 3/4"	2'-6"	5"	29'-5 1/4"	29'-4 1/8"											
G9	381.6214	60.9513	67.6965	62.4452	191.0930	15.9745	14.21	16.50	17.54	14.26	54.4513	T. 12 X 1 1/4 B. 16 X 1 1/8	14.000	T. 12 X 1 1/8 B. 16 X 1 1/8	53.6965	T. 12 X 1 1/4 B. 16 X 1 1/8	14.000	T. 12 X 1 1/4 B. 16 X 1 1/4	55.9452	T. 12 X 3/4 B. 16 X 1 1/8	50.71	51.80	10.0	10.0	10.0	10.0	57.24	53.66	58.69	45'-4 1/2"	51 1/2"	30'-10 1/2"	61 1/2"	46'-5 3/4"	53 3/4"	2'-6"	5"	28'-5 5/8"	29'-10 3/4"											
G10	389.7880	60.6172	67.5530	62.4232	190.5934	16.3163	14.36	16.29	18.08	14.00	54.1172	T. 12 X 1 1/4 B. 16 X 1 1/8	14.000	T. 12 X 1 1/8 B. 16 X 1 1/8	53.5530	T. 12 X 1 1/4 B. 16 X 1 1/8	14.000	T. 12 X 1 1/4 B. 16 X 1 1/4	55.9232	T. 12 X 3/4 B. 16 X 1 1/8	50.65	52.08	10.0	10.0	10.0	10.0	56.76	53.18	58.92	45'-0"	5"	30'-4 1/2"	63 3/4"	47'-0"	6"	2'-6"	5"	28'-3 3/4"	29'-10 7/8"											
G11	397.9547	60.3088	67.4196	62.4031	190.1315	16.6582	14.08	16.43	18.49	14.17	52.8088	T. 12 X 1 1/4 B. 16 X 1 1/8	16.000	T. 12 X 1 1/8 B. 16 X 1 1/2	51.4196	T. 12 X 1 1/8 B. 16 X 1 1/8	15.000	T. 12 X 1 1/2 B. 16 X 1 1/8	55.9031	T. 12 X 3/4 B. 16 X 1 1/4	54.51	52.66	10.0	14.0	10.0	10.0	56.73	52.50	58.73	44'-6 3/4"	53 3/4"	29'-8 1/2"	53 3/4"	46'-9 3/4"	51 1/4"	2'-6"	5"	28'-6 7/8"	30'-5 3/4"											
G12	406.1214	60.0231	67.2945	62.3841	189.7017	17.0000	14.23	16.41	18.32	14.13	52.5231	T. 12 X 1 1/4 B. 16 X 1 1/8	16.000	T. 12 X 1 1/2 B. 16 X 1 1/2	51.2945	T. 12 X 1 1/8 B. 16 X 1 1/8	15.000	T. 12 X 1 1/2 B. 16 X 1 1/8	55.8841	T. 12 X 1 1/4 B. 16 X 1 1/4	59.64	55.45	12.0	17.0	13.0	10.0	56.29	52.56	58.75	44'-1"	53 3/4"	30'-0"	6"	46'-11 1/2"	53 3/4"	2'-6"	5"	28'-7 5/8"	30'-0 3/8"											

NOTE TO THE CONTRACTOR:
NO WELDING SHALL BE ALLOWED WITHIN THE TENSION ZONES SHOWN UNLESS SPECIFICALLY NOTED. THE ATTACHMENT OF FORMING DEVICES OR OTHER CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREAS SHOWN IS PROHIBITED.

BIN 5513969

DATE	DESCRIPTION	BY	SYM.

REVISIONS To:

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
SOUTH NYACK INTERCHANGE

LOCATION OF PROJECT
M.P. 16.75

TITLE OF DRAWING
TYPICAL GIRDER ELEVATION

CONTRACT NUMBER:
TANY 94-5B

DATE:
SEPT. 1993

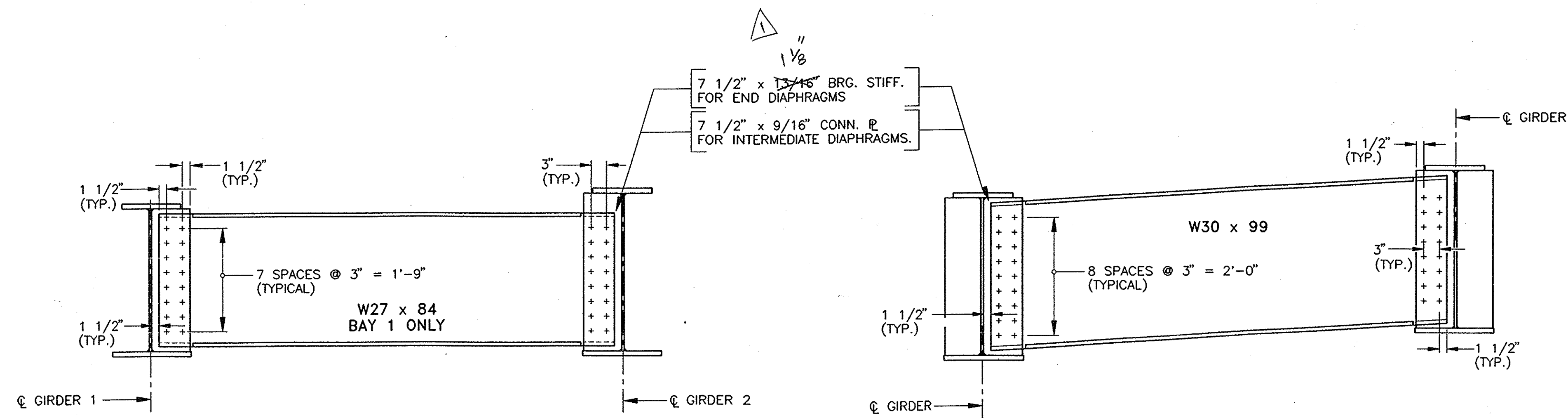
DRAWING NUMBER:
GD-1

CHECKED BY: T. M. M.

DRAFTED BY: T. M. M.

DESIGNED BY: T. M. M.

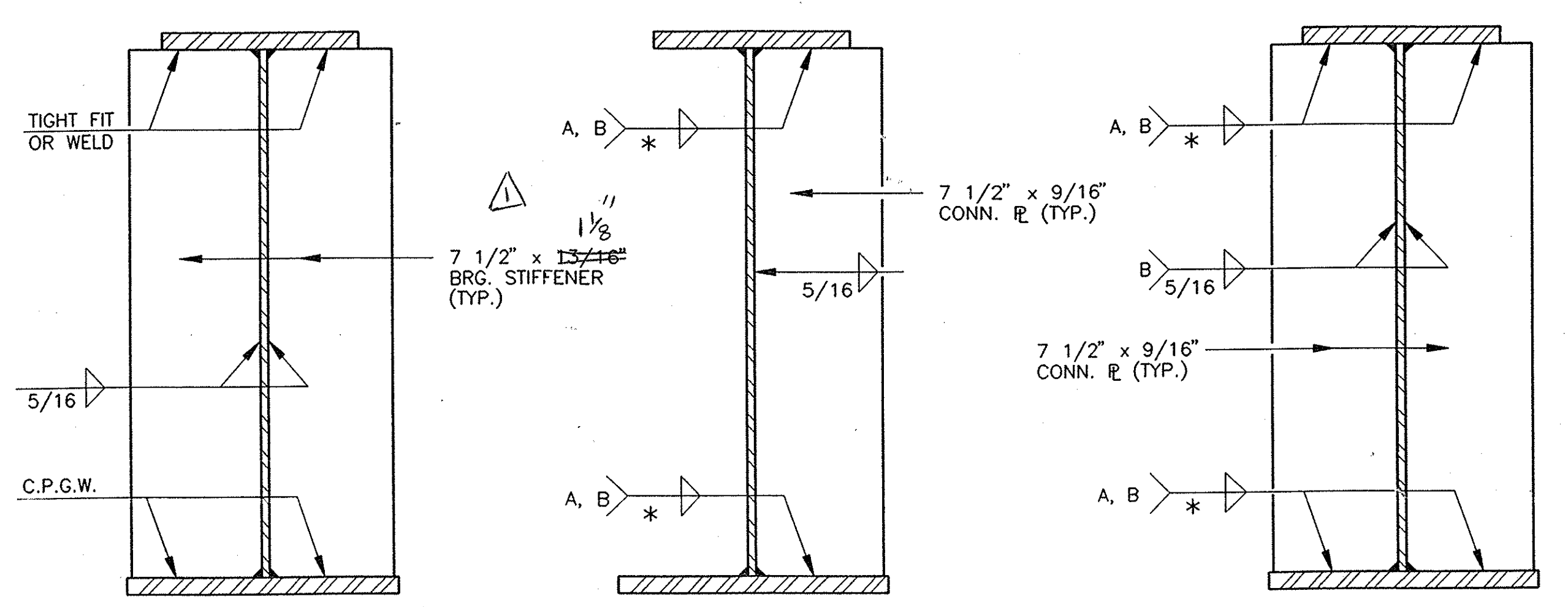
IN CHARGE OF: T. M. M.



INTERMEDIATE AND END DIAPHRAGM
BAY 1 ONLY
SCALE: 3/4" = 1'-0"

INTERMEDIATE AND END DIAPHRAGM
TYPICAL BAY OTHER THAN BAY 1
SCALE: 3/4" = 1'-0"

NOTE:
THE BOTTOM FLANGE OF ALL END DIAPHRAGMS
SHALL BE REMOVED.



BEARING STIFFENER

CONNECTION PLATE
FASCIA GIRDER

CONNECTION PLATE
INTERIOR GIRDER

GIRDER SECTIONS
N.T.S.

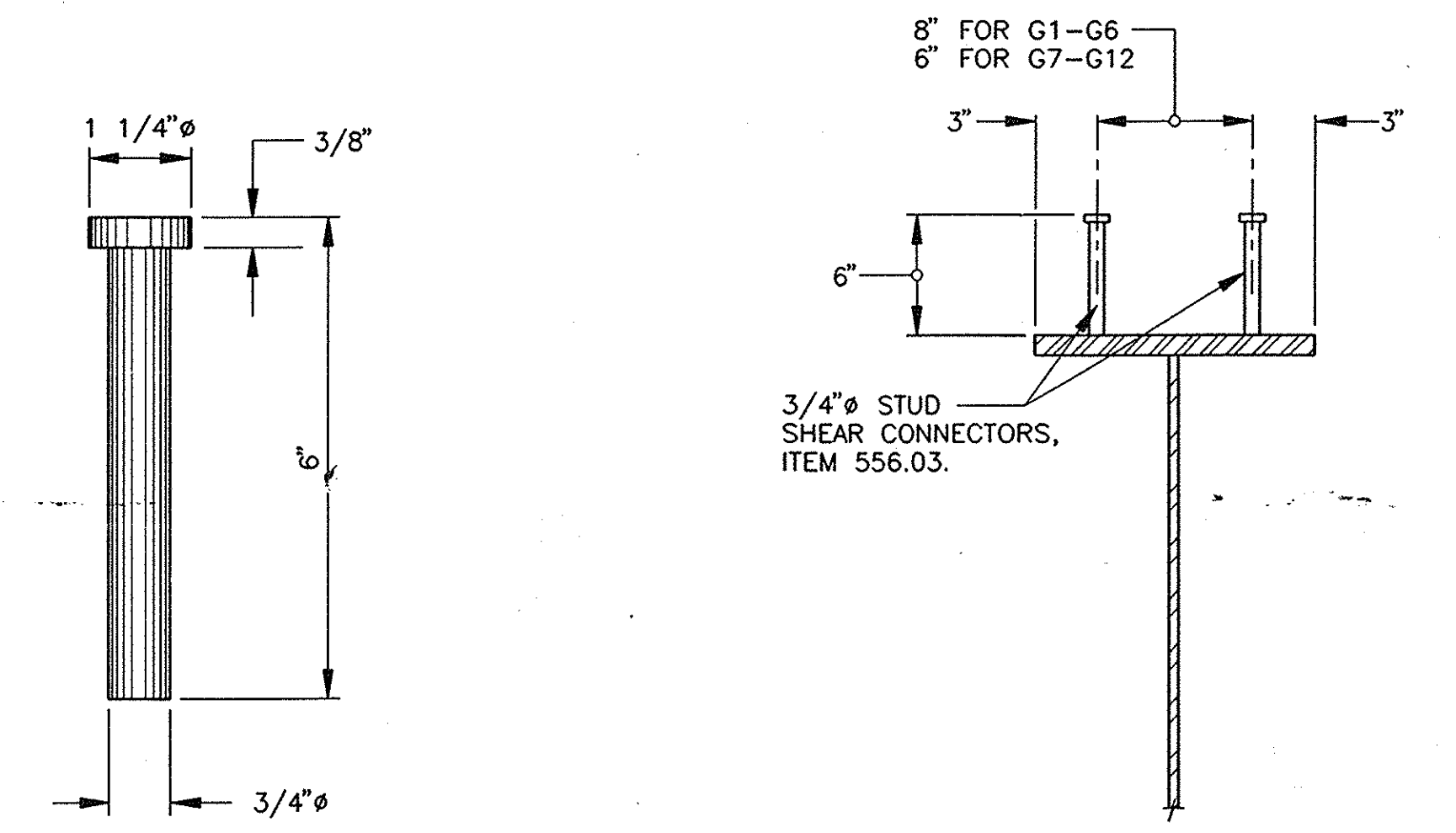
WELDING NOTES:

- 'A' - NO WELDING OF STIFFENERS OR CONNECTION PLATES TO TENSION FLANGE. PLATES SHALL BE "TIGHT FIT".
- 'B' - CONNECTION PLATES USED IN PAIRS MAY BE PLACED PAINT TIGHT AGAINST BOTH FLANGES AND NOT WELDED TO EITHER FLANGE. AS AN ALTERNATE, STIFFENERS AND CONNECTION PLATES MAY BE CUT 1/8" SHORT AND THEN PLACED PAINT TIGHT AGAINST THE TENSION FLANGE AND WELDED TO THE COMPRESSION FLANGE. THE WELD SIZE AT THE COMPRESSION FLANGE SHALL BE INCREASED BY THE AMOUNT OF THE GAP AS DESCRIBED IN ARTICLE 1101.1 OF THE STEEL CONSTRUCTION MANUAL. FITTED STIFFENERS AND CONNECTION PLATES SHALL NOT BE DRIVEN IN PLACE WITH SUFFICIENT FORCE TO DISTORT THE FLANGE, WEB, STIFFENER OR CONNECTION PLATES.

MATERIAL THICKNESS OF THICKER PART JOINED (IN.)	*
UP TO 1 1/2	5/16"
1 1/2 TO 2 1/4	3/8"

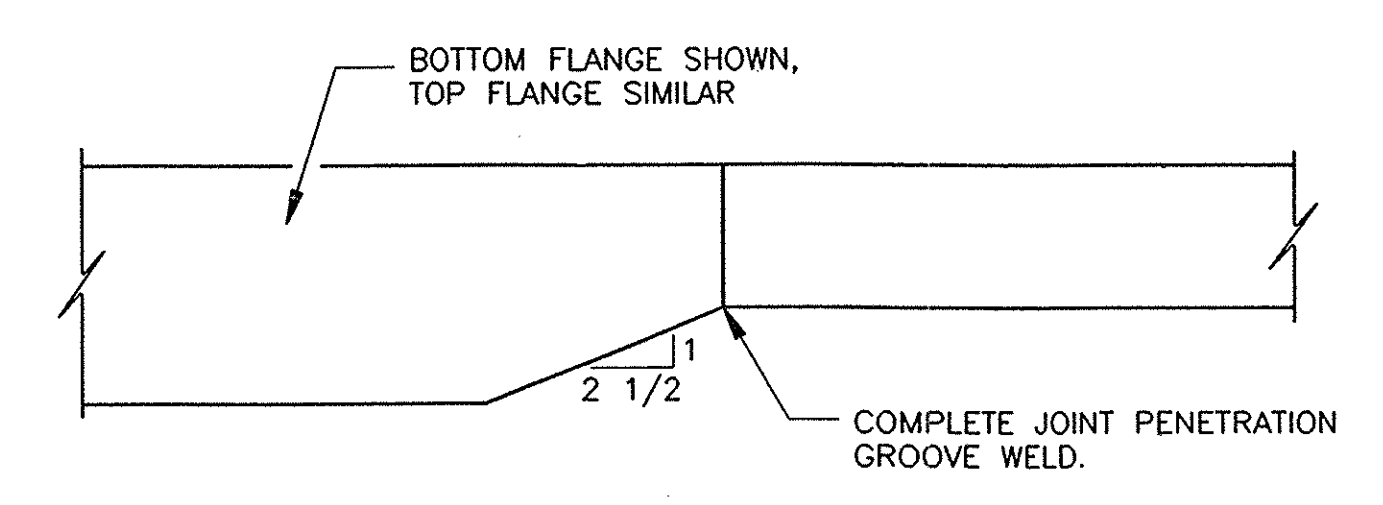
NOTES:

- ALL STRUCTURAL STEEL SHALL BE ASTM A572, GRADE 50 PAID FOR UNDER ITEM 564.050003.
- STUD SHEAR CONNECTORS SHALL BE PAID FOR UNDER ITEM 556.03.
- THE ENDS OF ALL GIRDERS AND THE BEARING STIFFENERS SHALL BE VERTICAL.
- BEARING STIFFENERS AT THE EAST ABUTMENT SHALL BE SKEWED FROM THE GIRDER WEB TO MATCH THE SKEW OF THE SUBSTRUCTURE. ALL OTHER BEARING STIFFENERS SHALL BE PERPENDICULAR TO THE GIRDER WEB.
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED UNDER ITEM 25570.920103 "COATING SYSTEM FOR NEW STRUCTURAL STEEL (SHOP APPLICATION)". THE TOP OF THE TOP FLANGE SHALL NOT BE PAINTED AND SHALL REMAIN FREE OF DIRT, RUST, OIL, GREASE OR ANY OTHER SUBSTANCE THAT WOULD CONTAMINATE THE SURFACE PRIOR TO WELDING OF THE SHEAR STUDS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE THRUWAY AUTHORITY FOR ALL STRUCTURAL STEEL FABRICATION INCLUDING WELDING PROCEDURES.
- THE COST OF ALL BOLTS, NUTS AND WASHERS SHALL BE INCLUDED IN THE PRICE BID FOR THE STRUCTURAL STEEL UNDER ITEM 564.050003.
- WHERE HOLES ARE INDICATED, CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER HIGH-STRENGTH BOLTS.
- CROSS-FRAMES MAY BE FABRICATED TO FIT THE GIRDERS IN THEIR ERRECTED POSITION AND CAMBERED SHAPE BUT DEFLECTED VERTICALLY DUE TO STEEL DEAD LOAD ONLY.
- THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE BEARING STIFFENERS OR STIFFENER CONNECTION PLATES AS NECESSARY TO CORRECT ALIGNMENT PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
- TAPERED OR FLAT SHIM PLATES MAY BE USED IN THE CONNECTION BETWEEN SKEWED DIAPHRAGMS AND THE BEARING STIFFENERS OR STIFFENER CONNECTION PLATES OR IN THE CONNECTION BETWEEN THE TOP OR BOTTOM GUSSET PLATES. VARIABLE THICKNESSES OF SHIM PLATES MAY BE USED. THE MINIMUM THICKNESS OF SHIM PLATES SHALL BE 1/8" WITH A MAXIMUM NUMBER OF THREE SHIM PLATES PERMITTED AT ANY CONNECTION. THE TOTAL THICKNESS OF ALL SHIM PLATES USED AT ANY CONNECTION SHALL NOT EXCEED 1". SHIM PLATES SHALL HAVE THE DIMENSIONS OF THE FAYING SURFACE. THE SHIM MATERIAL SHALL CONFORM TO ASTM DESIGNATION A36, EXCEPT THAT ON UNPAINTED STRUCTURES, THE SHIM MATERIAL SHALL CONFORM TO ASTM DESIGNATION A588. NO ADDITIONAL PAYMENT WILL BE MADE FOR FURNISHING AND PLACING THE SHIM PLATES.



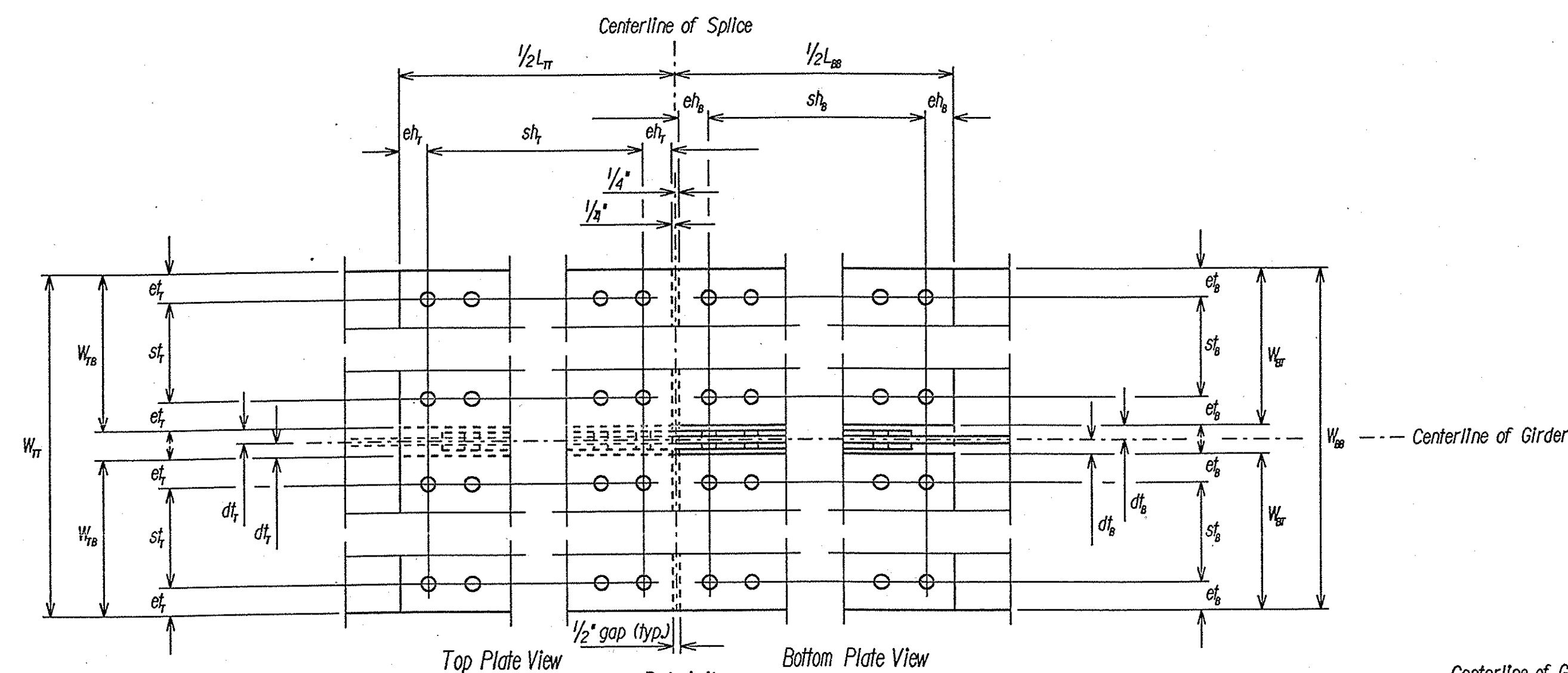
DETAIL OF STUD
SCALE: 1/2" = 1'-0"

STUD SHEAR
CONNECTOR DETAIL
SCALE: 1" = 1'-0"

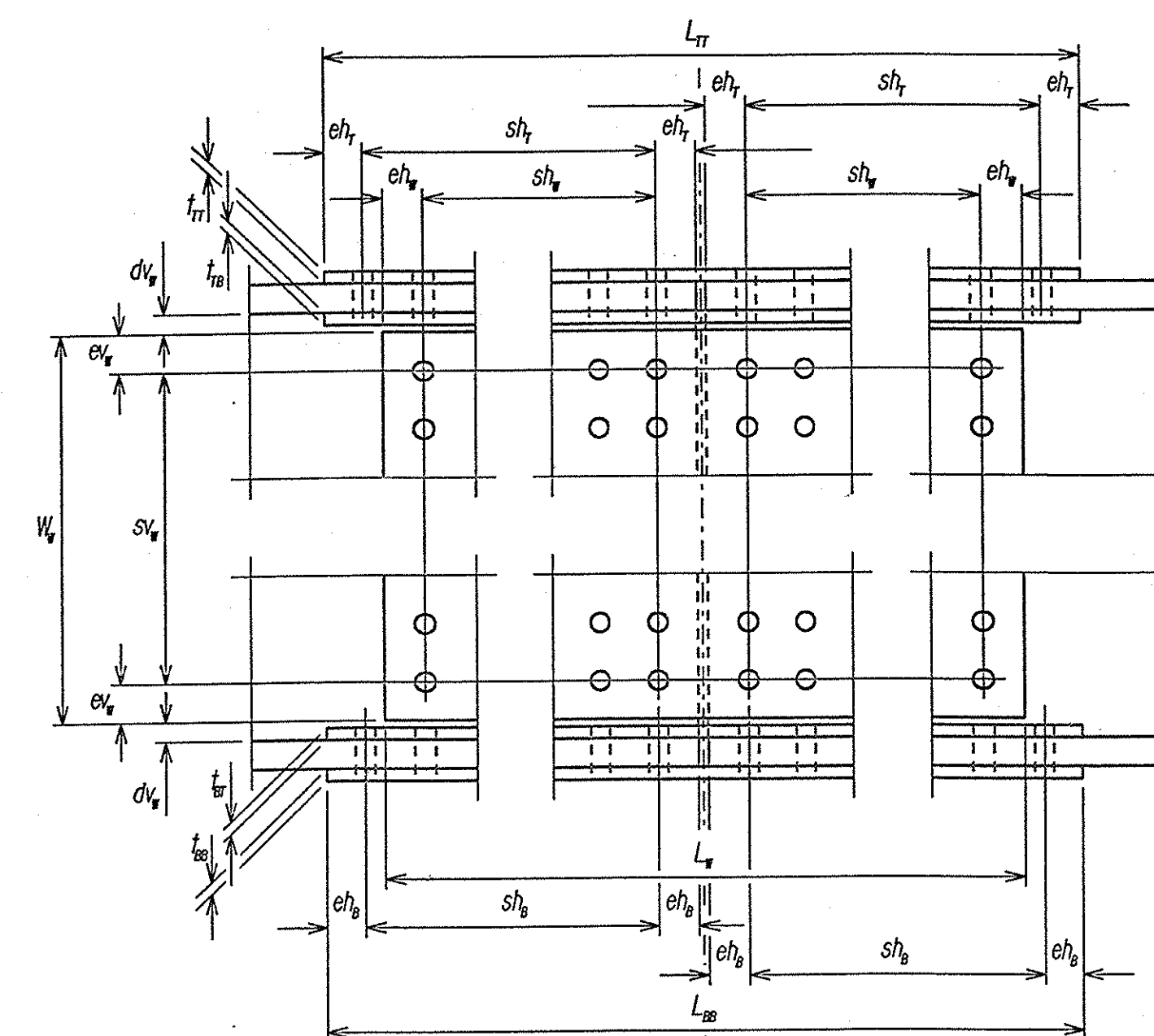


FLANGE THICKNESS TAPER
SCALE: 1/2" = 1'-0"

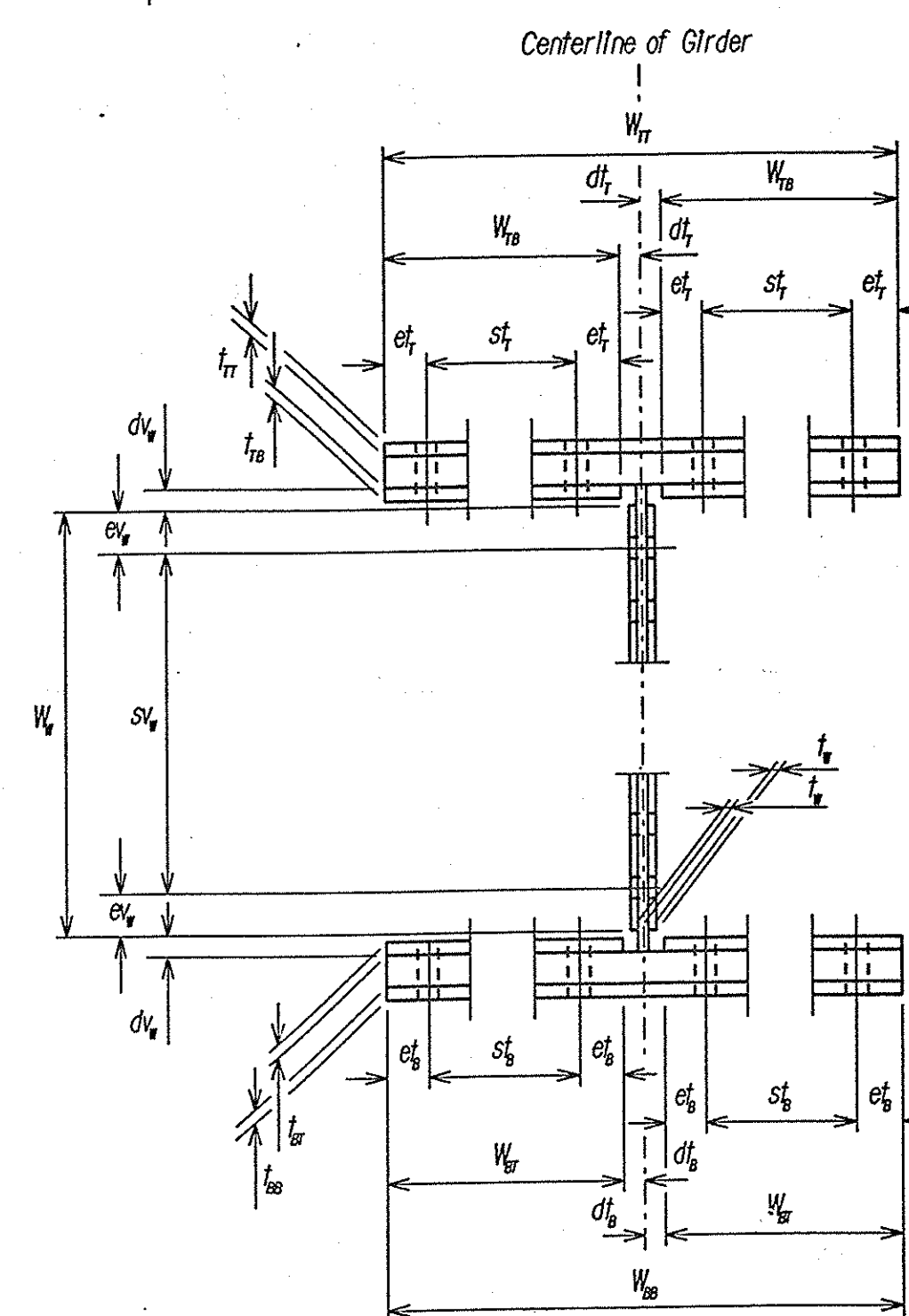
BIN 5513969			
Stiffener		thickness	
DATE	DESCRIPTION	BY	SYW.
REVISIONS TO:			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT SOUTH NYACK INTERCHANGE			
LOCATION OF PROJECT M.P. 16.75±			
TITLE OF DRAWING GIRDER DETAILS			
CONTRACT NUMBER: TANY 94-5B		DATE: 12/93	
DRAWING NUMBER: GD-2			



PLAN
N.T.S.



ELEVATION
N.T.S.



SECTION
N.T.S.

GENERAL NOTES:

- 1) **Payment:**
All material, fabrication, and installation of the Girder Splices shall be paid for under Item 564.050003.
- 2) **Painting:**
All non-contact ("non-faying") surfaces of bolted parts shall be shop painted under Item 25570.920103.
- 3) **Contact ("faying") Surface of Bolted Parts:**
AASHTO Class B - Blast Cleaned and Prime Coated under Item 25570.9201 03. Prime coated surfaces shall remain free of any paint, mill scale, dirt, rust, oil, grease, or any other substance that would reduce the frictional capacity (Class) of the bolted splice connection.

SPLICE PLATE NOTES:

- 1) *Grade:*
AASHTO M270 Grade 50 (ASTM A572).
- 2) *Bolt Hole Type:*
Standard - for high strength bolted connections.
- 3) *Curvature of Girder:*
Splice Plates shall be fabricated to the curvature of the girder at the location of the girder splice. The following dimensions shall be adjusted accordingly:
- $L_{TT, TB, BS, BT}$ - Shall become the arc length of the Flange Plate edge closest to the center of curvature. The lengths shall increase radially to the Flange Plate edge farthest from the center of curvature.
- $W_{TT, TB, BS, BT}$ - Shall become radial widths.
- $dt_{T,B}, et_{T,B}, st_{T,B}$ - Shall become radial dimensions.
- $sh_{T,B}, eh_{T,B}$ - Shall become arc dimensions along the Flange Plate edge closest to the center of curvature. These dimensions shall increase radially to the Flange Plate edge farthest from the center of curvature.
- Web Splice* - Web Plates shall become fabricated to match the curvature of the girder prior to bolting. No deformation or bending of parts shall occur when bolts are tightened. L_w, eh_w , and sh_w shall become arc lengths along the Flange Plate edge closest to the center of curvature that shall be increased radially to the centerline of the Girder.

BOLT, NUT, AND WASHER NOTES:

- 1) **Size & Grade:**
7/8" Diameter AASHTO M164 (ASTM A325) high strength with applicable ASTM manufacturer markings.
- 2) **Bolt Lengths:**
The length of the bolts shall be such that the point of the bolt will be flush with or outside the face of the nut when completely installed. Sufficient thread must be provided to prevent the nut from encountering the thread run-out.
- 3) **Washers:**
Assembly shall include hardened washers under the bolt head and/or nut, whichever is turned for tightening.
- 4) **Bolt Orientation:**
*Stem Vertical Installation - Bolt head shall be up.
Stem Horizontal Installation - Bolt head shall be on the side from which the under roadway traffic or stream flow directly under the splice is coming from.*

SEE REVISED SHEET - 100 FI

[illegible][illegible]

GENERAL NOTES:

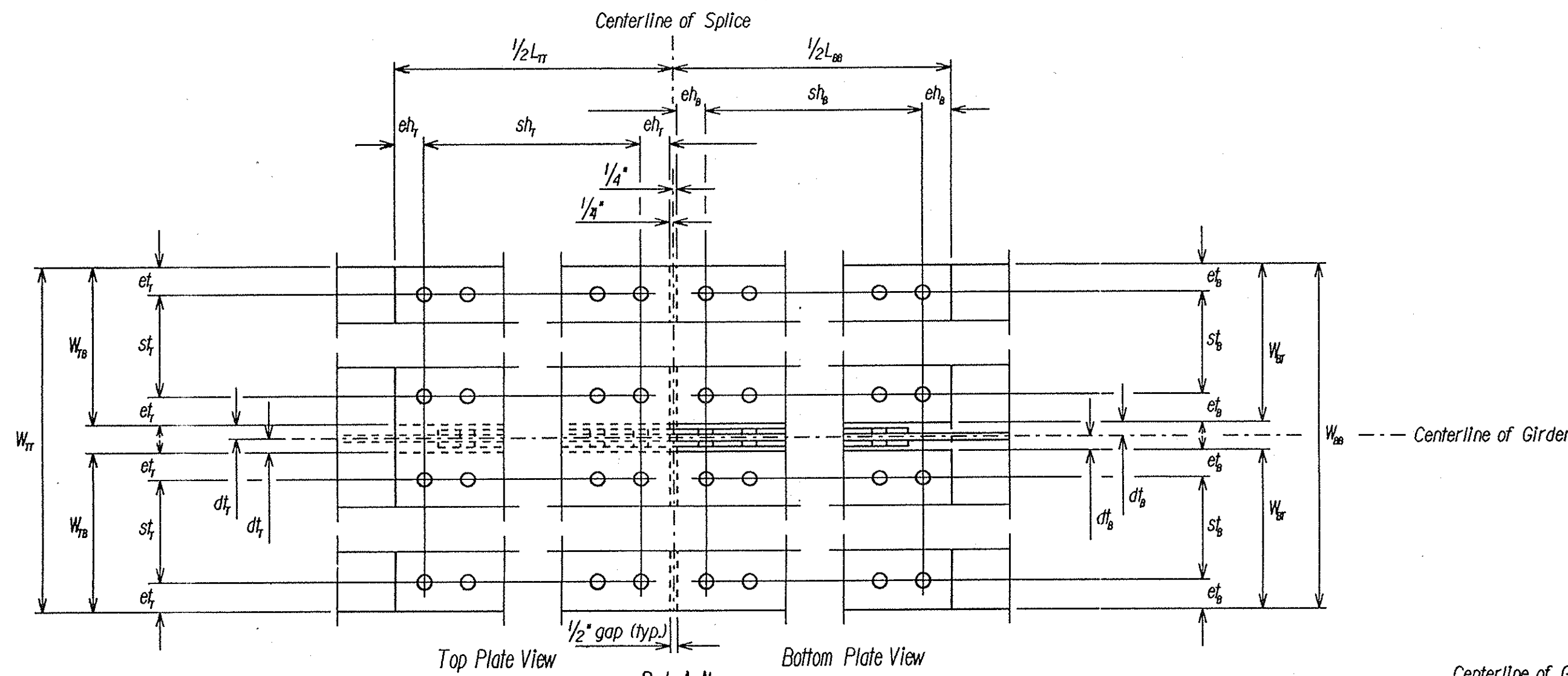
- 1) Payment:
All material, fabrication, and installation of the Girder Splices shall be paid for under Item 564.050003.
- 2) Painting:
All non-contact ("non-faying") surfaces of bolted parts shall be shop painted under Item 25570.920103.
- 3) Contact ("faying") Surface of Bolted Parts:
AASHTO Class B - Blast Cleaned and Prime Coated under Item 25570.920103. Prime coated surfaces shall remain free of any paint, mill scale, dirt, rust, oil, grease, or any other substance that would reduce the frictional capacity (Class) of the bolted splice connection.

SPLICE PLATE NOTES:

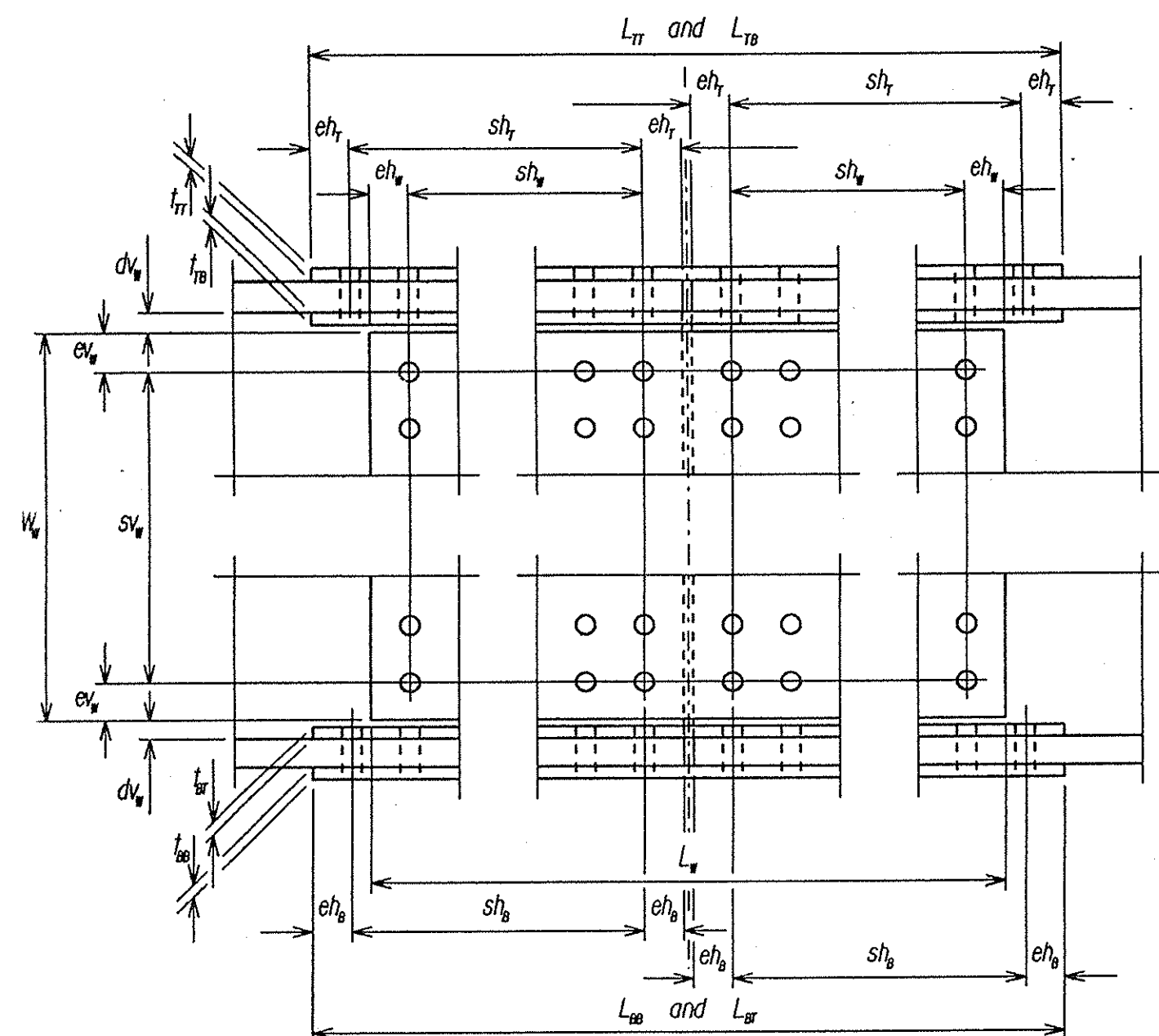
- 1) Grade:
AASHTO M270 Grade 50 (ASTM A572).
- 2) Bolt Hole Type:
Standard - for high strength bolted connections.
- 3) Curvature of Girder:
Splice Plates shall be fabricated to the curvature of the girder at the location of the girder splice. The following dimensions shall be adjusted accordingly:
- L_{TT}, T_B, BB, BT - Shall become the arc length of the Flange Plate edge closest to the center of curvature. The lengths shall increase radially to the Flange Plate edge farthest from the center of curvature.
- N_{TT}, T_B, BB, BT - Shall become radial widths.
- $dt_{T,B}, et_{T,B}, st_{T,B}$ - Shall become radial dimensions.
- $sh_{T,B}, eh_{T,B}$ - Shall become arc dimensions along the Flange Plate edge closest to the center of curvature. These dimensions shall increase radially to the Flange Plate edge farthest from the center of curvature.
- Web Splice - Web Plates shall become fabricated to match the curvature of the girder prior to bolting. No deformation or bending of parts shall occur when bolts are tightened. L_w, eh_w , and sh_w shall become arc lengths along the Flange Plate edge closest to the center of curvature that shall be increased radially to the centerline of the Girder.

BOLT, NUT, AND WASHER NOTES:

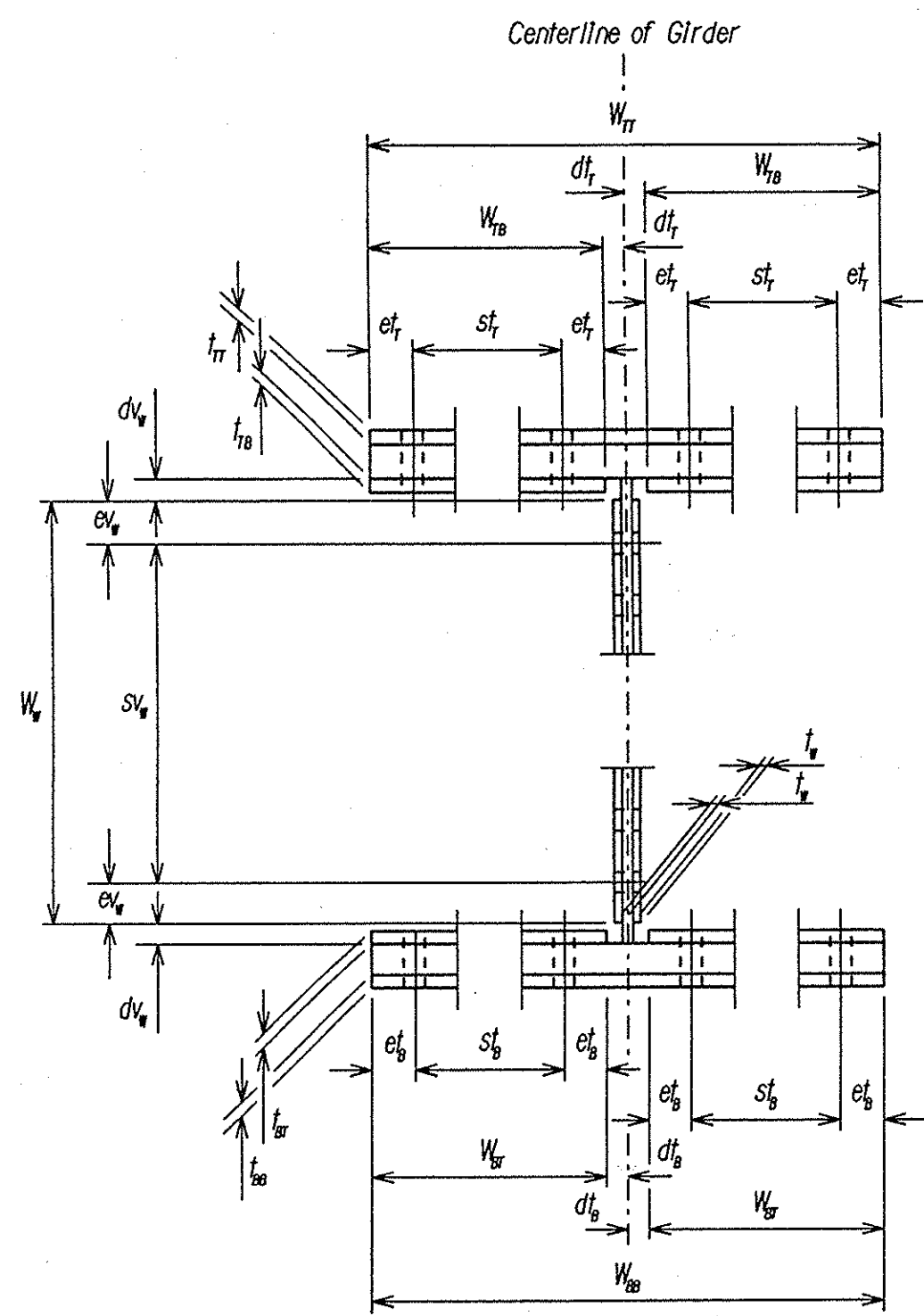
- 1) Size & Grade:
7/8" Diameter AASHTO M164 (ASTM A325) high strength with applicable ASTM manufacturer markings.
- 2) Bolt Lengths:
The length of the bolts shall be such that the point of the bolt will be flush with or outside the face of the nut when completely installed. Sufficient thread must be provided to prevent the nut from encountering the thread run-out.
- 3) Washers:
Assembly shall include hardened washers under the bolt head and/or nut, whichever is turned for tightening.
- 4) Bolt Orientation:
Stern Vertical Installation - Bolt head shall be up.
Stern Horizontal Installation - Bolt head shall be on the side from which the under roadway traffic or stream flow directly under the splice is coming from.



PLAN
N.T.S.



ELEVATION
N.T.S.

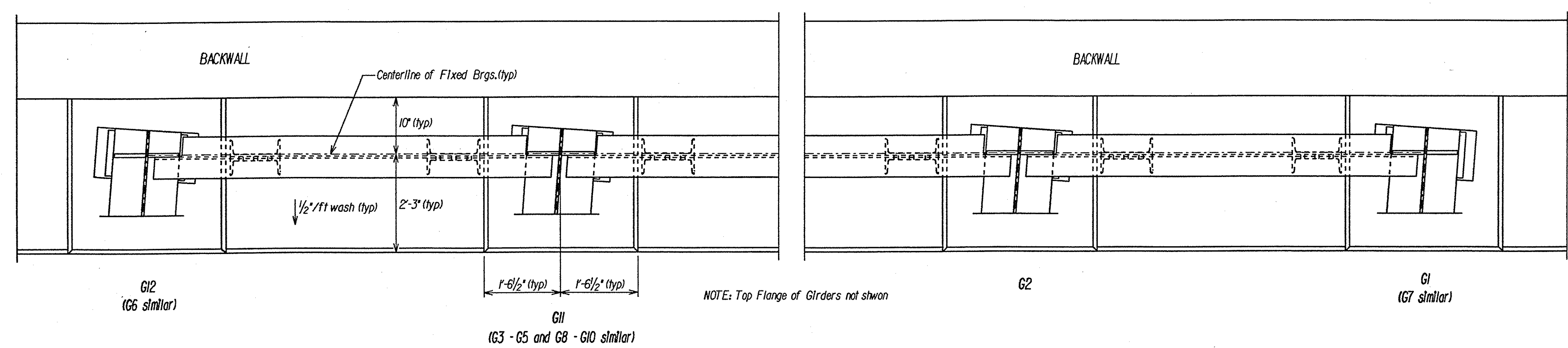


SECTION
N.T.S.

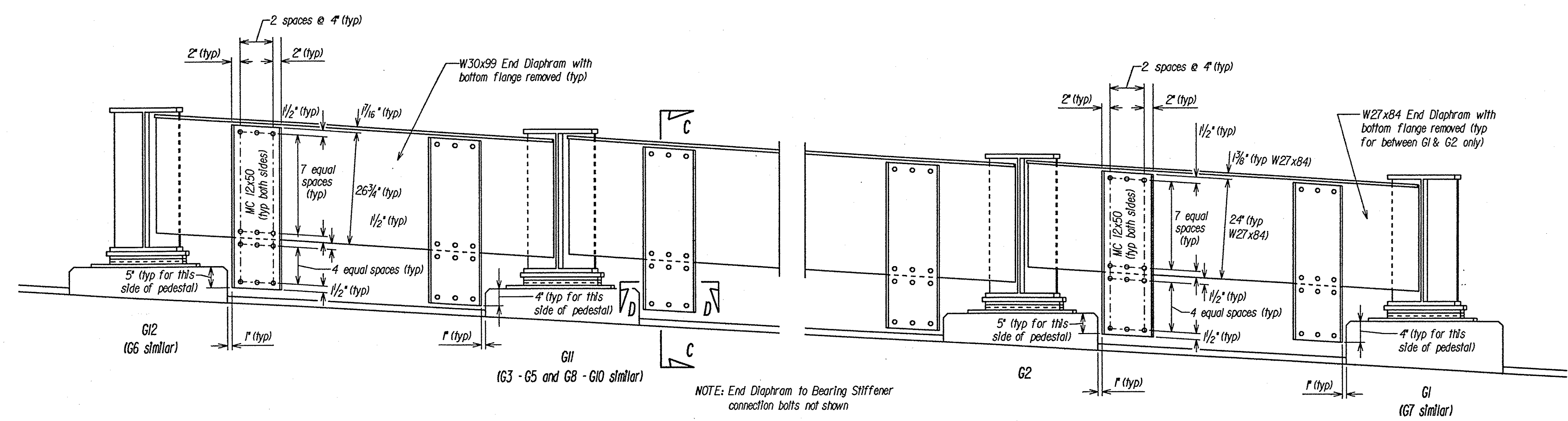
Girder Number	SPlice CENTERLINE LOCATION			TOP FLANGE SPLICE										WEB SPLICE										BOTTOM FLANGE SPLICE									
	Span No.	Distance from centerline of	Pier or Abut. No.	Top Plates					Bottom Plate					Web Plates					Bottom Plate					Top Plates					Bottom Plate				
				Lm (in.)	Wm (in.)	tm (in.)	Lm (in.)	Wm (in.)	tm (in.)	dt (in.)	et (in.)	st (in.)	eh (in.)	sh (in.)	Lm (in.)	Wm (in.)	tm (in.)	dt (in.)	et (in.)	st (in.)	eh (in.)	sh (in.)	Lm (in.)	Wm (in.)	tm (in.)	Lm (in.)	Wm (in.)	tm (in.)	dt (in.)	et (in.)	st (in.)	eh (in.)	sh (in.)
G1	2	12'-10"	Pier 2	38 1/2	14	5/8	38 1/2	6	5/8	1	3	0 @ 0	2	5 @ 3	20 1/2	27	3/8	1	2 1/4	6 @ 3 3/4	2	2 @ 3	20 1/2	16	5/8	20 1/2	7	5/8	1	2	1 @ 3	2	2 @ 3
G2	2	11'-6"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	20 1/2	30	3/8	1	2 1/4	6 @ 4 1/4	2	2 @ 3	do	do	do	do	do	do	do	do	do	do	do
G3	2	10'-6"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G4	2	12'-9"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G5	2	9'-6"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G6	2	11'-9"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G7	2	10'-6"	Pier 2	38 1/2	12	5/8	38 1/2	5	5/8	1	2 1/2	0 @ 0	2	5 @ 3	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G8	2	11'-9"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G9	2	11'-6"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G10	2	13'-9"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G11	2	10'-6"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do
G12	2	11'-9"	Pier 2	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do	do

BIN 5513969

SPlice Centerline location		▲	
DATE DESCRIPTION BY SYM.			
REVISIONS TO:			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT SOUTH NYACK INTERCHANGE			
LOCATION OF PROJECT MP. 1675			
TITLE OF DRAWING GIRDER SPLICES			
CONTRACT NUMBER: TANY 94-58		DATE: DEC. 1993	
DRAWING NUMBER: GD - 3			



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



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

GENERAL NOTES:

- 1) Payment:
All material, fabrication, and installation of the End Diaphragm Struts shall be paid for under Item 564.050003.
- 2) Painting:
All non-contact ("non-faying") surfaces of bolted parts shall be shop painted under Item 25570.920103.
- 3) Contact ("faying") Surface of Bolted Parts:
AASHTO Class B - Blast Cleaned and Prime Coated under Item 25570.920103. Prime coated surfaces shall remain free of any paint, mill scale, dirt, rust, oil, grease, or any other substance that would reduce the frictional capacity (Class) of the bolted connection.

STRUT & FILL PLATE NOTES:

- 1) Grade:
AASHTO M270 Grade 50 (ASTM A572).
- 2) Bolt Hole Type:
Shop Assembly - Subsize.
Field Assembly - Reamed to Standard for High Strength Bolted Connections.

BOLT, NUT, AND WASHER NOTES:

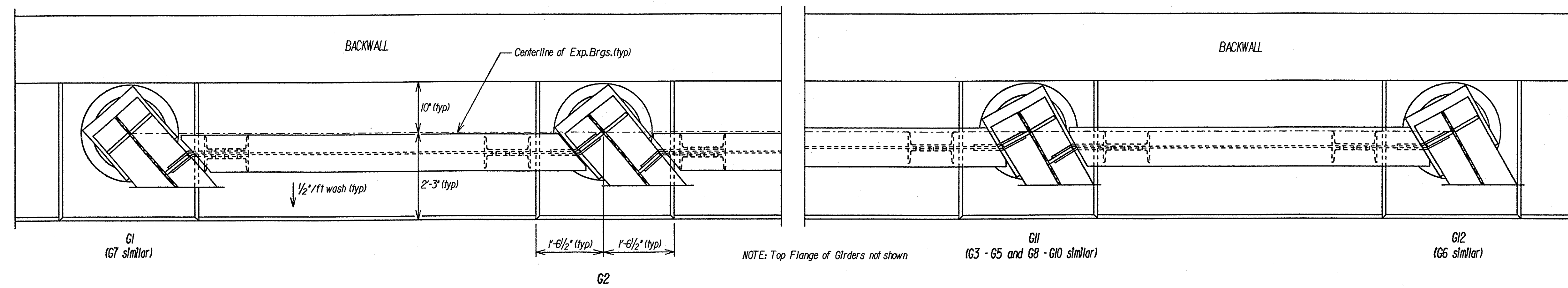
- 1) Size & Grade:
7/8" Diameter AASHTO M164 (ASTM A325) high strength with applicable ASTM manufacturer markings.
- 2) Bolt Lengths:
The length of the bolts shall be such that the point of the bolt will be flush with or outside the face of the nut when completely installed. Sufficient thread must be provided to prevent the nut from encountering the thread run-out.
- 3) Washers:
Assembly shall include hardened washers under the bolt head and/or nut, whichever is turned for tightening. Washers may be clipped as necessary for the line of bolts adjacent to the channel legs.
- 4) Bolt Orientation:
Stem Horizontal Installation - Bolt head shall be on the backwall side.

OTHER RELATED DRAWINGS:

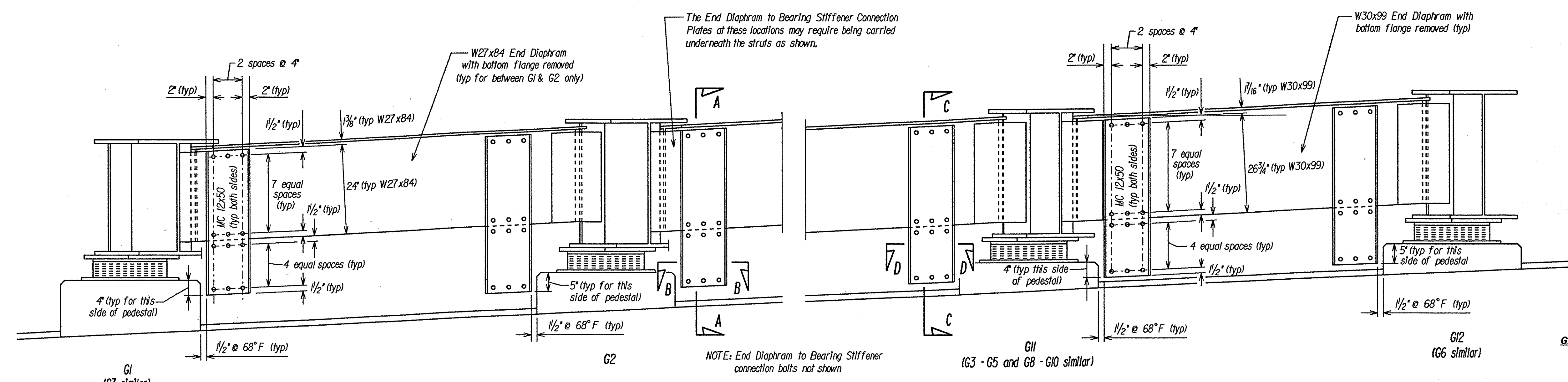
Sections	Dwg. GD-5
Framing Plan	Dwg. FP-2
Girder Information	Dwgs. GD-1 & GD-2
End Diaphragm Information	Dwgs. GD-2 & MD-1
Bearing Information	Dwg. BR-1
East Abutment Information	Dwgs. EA-1 & EA-2

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT SOUTH NYACK INTERCHANGE			
LOCATION OF PROJECT MILEPOST 1675			
TITLE OF DRAWING END DIAPHRAM STRUTS WEST ABUTMENT			
CONTRACT NUMBER: TANY 94-5B		DATE: JANUARY 1994	
DRAWING NUMBER: GD-4			

IN CHARGE OF: *[Signature]*
 DESIGNED BY: *[Signature]*
 DRAFTED BY: *[Signature]*
 CHECKED BY: *[Signature]*



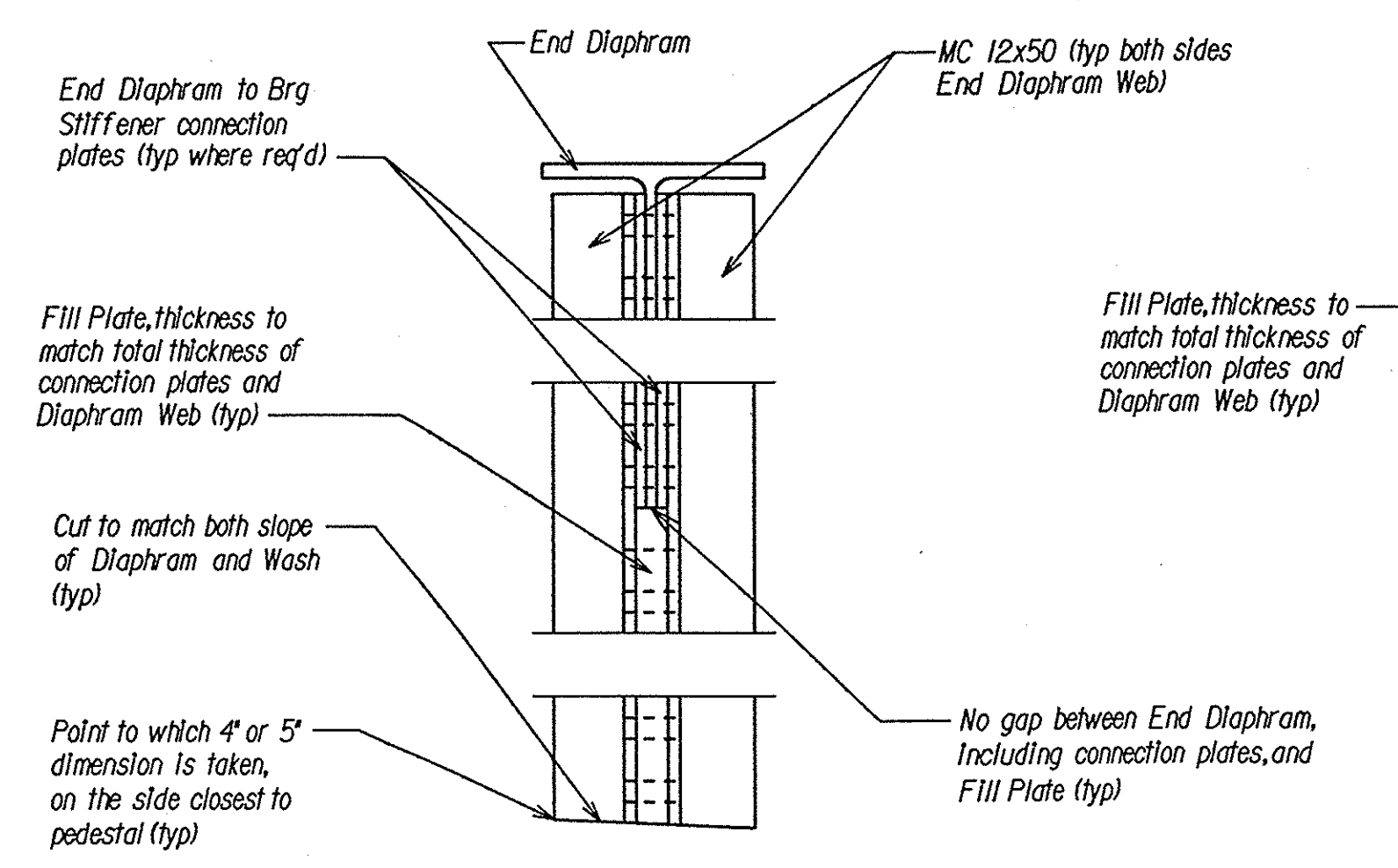
PLAN
Scale: $\frac{3}{4}" = 1'-0"$



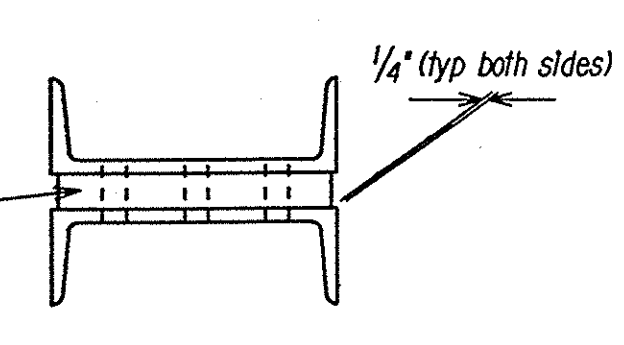
ELEVATION
Scale: $\frac{3}{4}" = 1'-0"$

GENERAL NOTES:
For related notes to this sheet see Dwg. GD-4

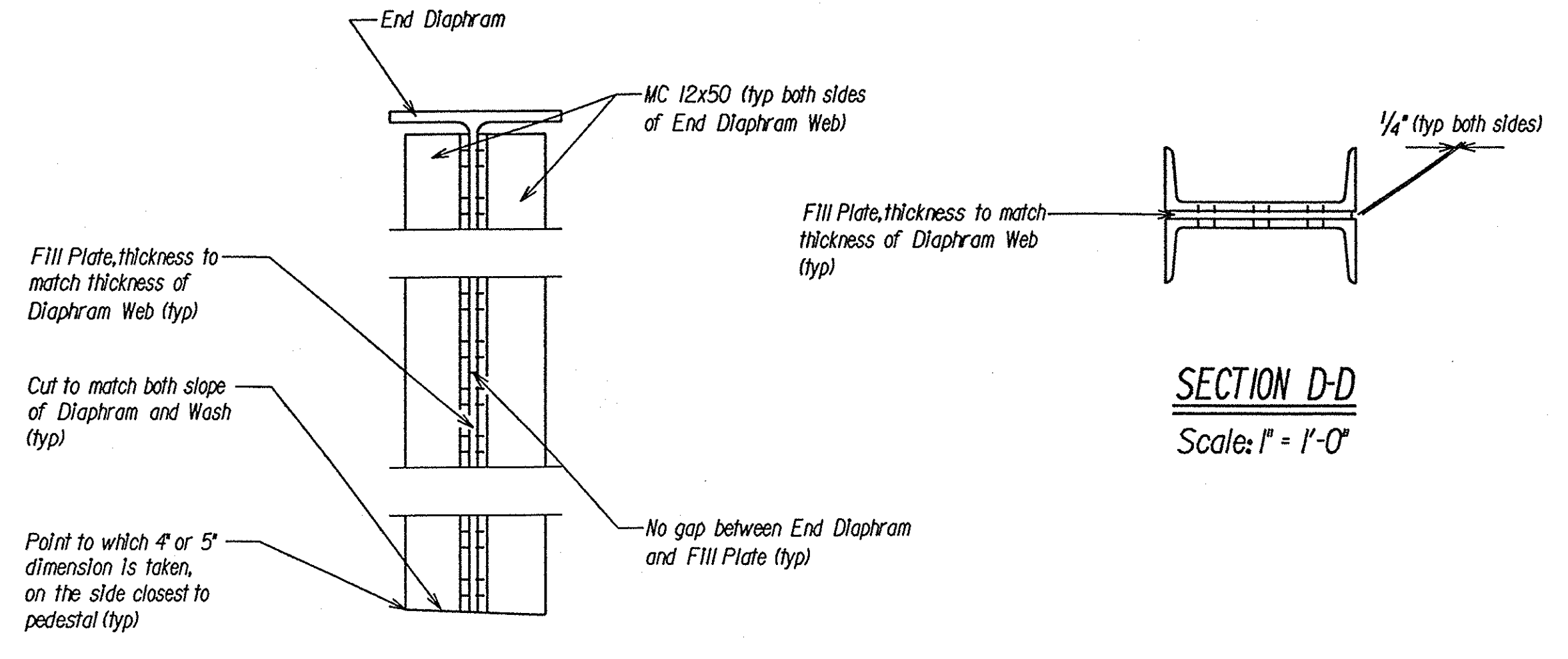
OTHER RELATED DRAWINGS:
For list of other related drawings GD-4
East Abutment Information Dws. EA-1 & EA-2



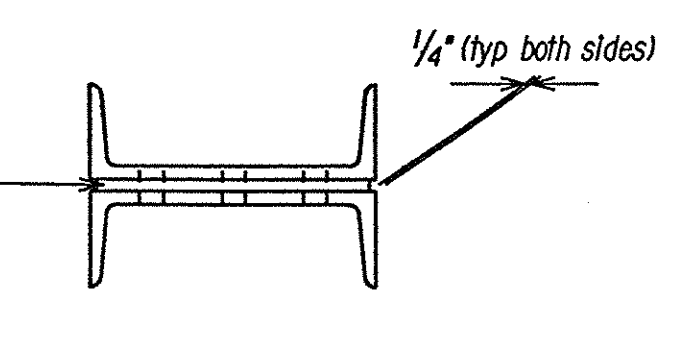
SECTION A-A
Scale: $1" = 1'-0"$



SECTION B-B
Scale: $1" = 1'-0"$



SECTION C-C
Scale: $1" = 1'-0"$



SECTION D-D
Scale: $1" = 1'-0"$

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT SOUTH NYACK INTERCHANGE			
LOCATION OF PROJECT MILEPOST 167.5			
TITLE OF DRAWING END DIAPHRAM STRUTS EAST ABUTMENT			
CONTRACT NUMBER: TNY 94-5B		DATE: JANUARY 1994	
DRAWING NUMBER: GD-5			