

SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT. (CYDS)
A	35.7
B	45.4
C	48.6
D	61.8
TOTAL CONC.	191.5

MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	158.9
CONCRETE MEDIAN BARRIER (SP.)	LFT	79.6
SCARIFYING	SYD	570.9
HYDRODEMOLISHING - FIRST PASS	SYD	570.9
HYDRODEMOLISHING - SECOND PASS	SYD	32.8
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0
CONSTRUCTING BRIDGE DECK SURFACE	SYD	540.6
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0

SCREED ELEVATIONS

	PIER 9	1/4	1/2	3/4	PIER 10	1/4	1/2	3/4	PIER 11
WEST BARRIER	180.37	180.28	180.20	180.12	180.03	179.93	179.94	179.96	179.86
MEDIAN WEST	181.33	181.25	181.17	181.09	181.01	180.91	180.80	180.67	180.43
CONST. JT.	181.33	181.25	181.17	181.09	181.01	180.90	180.80	180.67	180.42
MEDIAN EAST	181.33	181.25	181.17	181.09	181.01	180.90	180.80	180.67	180.42
EAST BARRIER	182.29	182.21	182.14	182.06	181.98	181.84	181.61	181.55	180.97

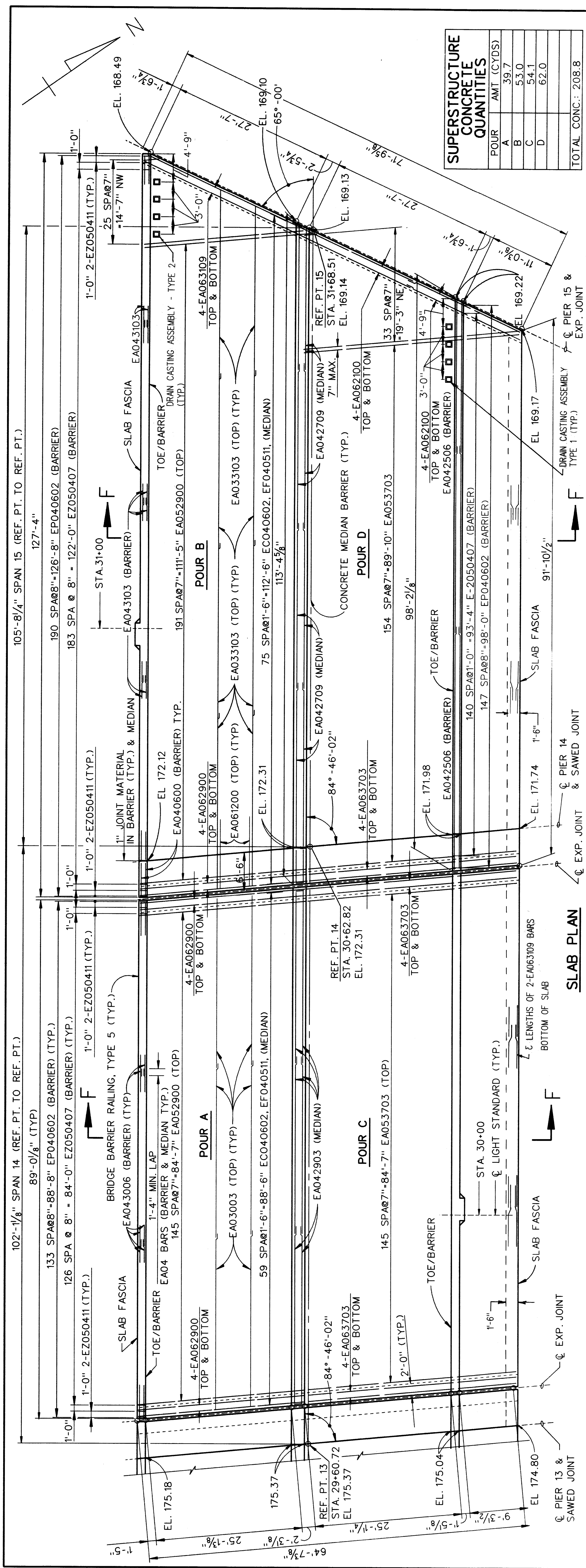
NOTES:
 TRANSVERSE STEEL SHALL BE PLACED PARALLEL TO THE REFERENCE LINE.
 LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 40 AND 41 THRU 51.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 SCREDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.
 FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE WILL BE MEASURED AS A LUMP SUM UNIT FOR THE 3'-9 1/2" OVERHANG ON SPANS 1, 2, 3, & 4 FOR ALL OF SPAN 16 AND THE 2 FOOT DECK JOINT REPLACEMENT AT PIERS 1 TO 14, AND THE 1'-6" DECK REPLACEMENT ON SPANS 5 TO 15.
 SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO CONCRETE OVERLAY HAS BEEN CAST.
 OUTER SCREED RAILS FOR FINISHING OF CONCRETE SHALL BE LOCATED OVER FASCIA BEAM AND OVER THE SLAB ADJACENT TO CONSTRUCTION JOINT.

THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

SOLID BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	NO.	OF

B01 of 82-22-48

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 WALTER TEAMER AND ASSOCIATES, INC.
 A JOINT ASSOCIATION
 18431 JAMES COUZENS DETROIT, MI 48235

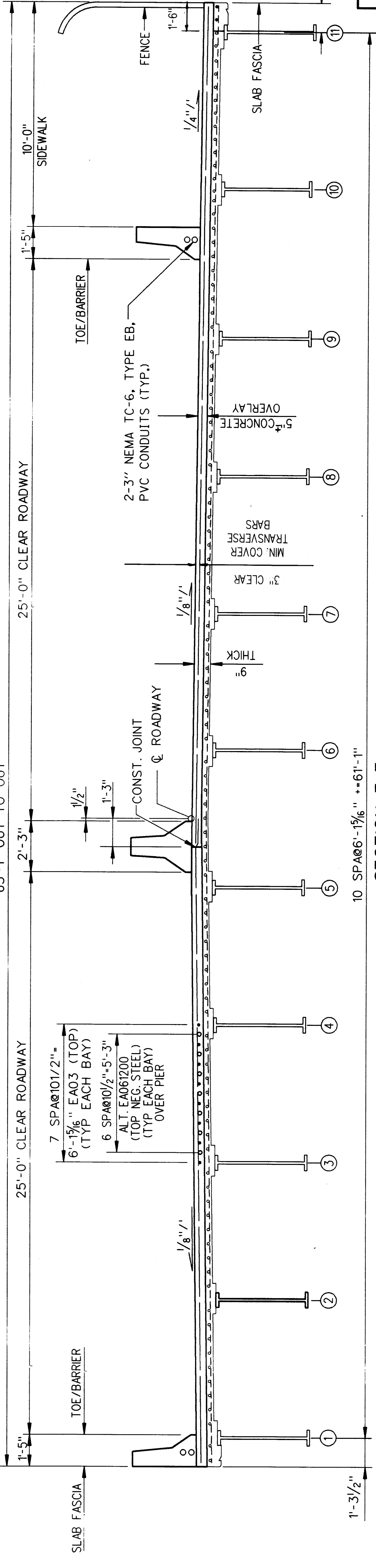


SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT (CYDS)
A	39.7
B	53.0
C	54.1
D	62.0
TOTAL CONC.: 208.8	

MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD. FOR RAILING REPLACEMENT)	LFT	178.0
CONCRETE MEDIAN BARRIER (SP.)	LFT	89.0
SCARIFYING	SYD	646.2
HYDRODEMOLISHING - FIRST PASS	SYD	646.2
HYDRODEMOLISHING - SECOND PASS	SYD	14.9
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0
CONSTRUCTING BRIDGE DECK SURFACE	SYD	617.1
FALSE DECKING	SYD	0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0



SECTION F-F
 SCREEN ELEVATIONS

	1/4	1/2	3/4	EXPJT PIER 14	1/4	1/2	3/4	PIER 15
WEST BARRIER	175.18	174.99	174.32	173.65	172.99	172.32	171.65	170.98
MEDIAN WEST	175.37	175.19	174.52	173.84	173.18	172.51	171.84	171.17
CONST. JT.	175.37	175.18	174.51	173.84	173.18	172.51	171.84	171.17
MEDIAN EAST	175.37	175.18	174.51	173.84	173.18	172.51	171.84	171.17
EAST BARRIER	175.04	174.85	174.18	173.51	172.85	172.18	171.51	170.84

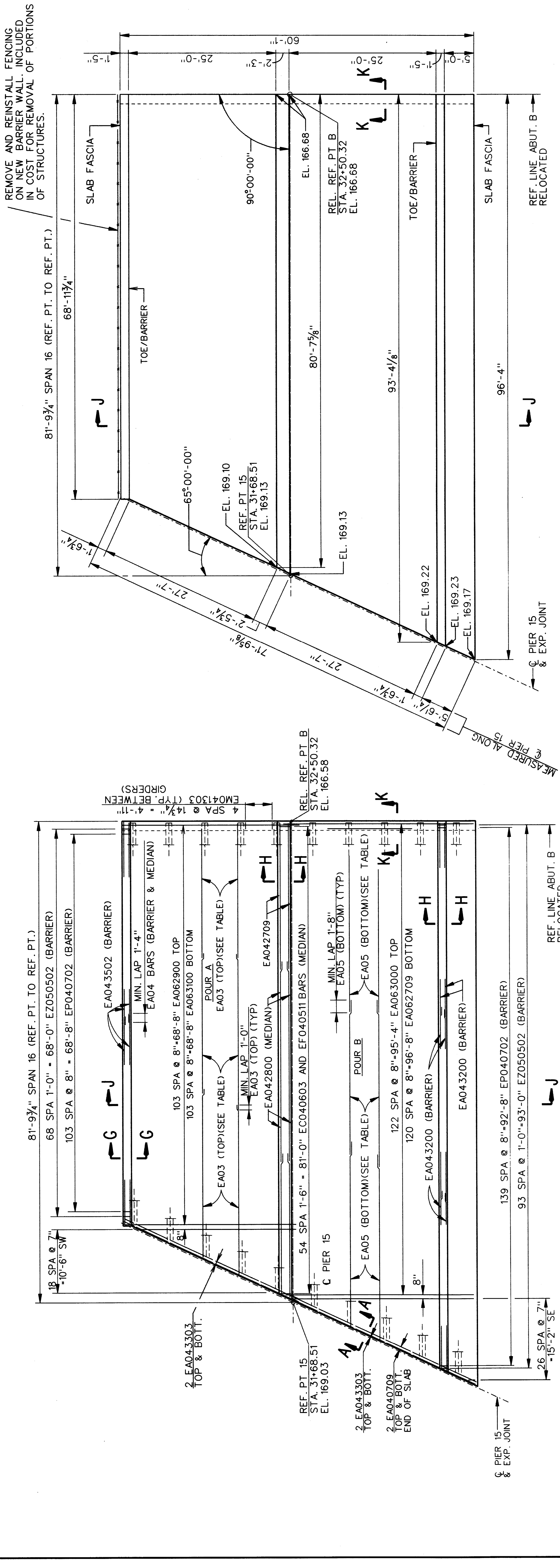
NOTES:
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 41 AND 43 THRU 51.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 FOR ADDITIONAL NOTES SEE SHEET 41.

THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

SOLID BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	42	OF 57

B01 of 82-22-48

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SLAB PLAN

NOTES:

WORK THIS SHEET WITH SHEETS 39, 44, 47 & 49 TO 51.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 SCREEDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.
 FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE WILL BE MEASURED AS A UNIT FOR THE 3'-9/2" OVERHANG ON SPANS 1, 2, 3, & 4 FOR ALL OF SPAN 16 AND THE 2 FOOT DECK JOINT REPLACEMENT AT PIERS 1 TO 14.
 SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO CONCRETE OVERLAY HAS BEEN CAST.

REMOVE AND REINSTALL FENCING ON NEW BARRIER WALL. INCLUDED IN COST FOR REMOVAL OF PORTIONS OF STRUCTURES.

OUTER SCREED RAILS FOR FINISHING OF CONCRETE SHALL BE LOCATED OVER FASCIA BEAM AND OVER THE SLAB ADJACENT TO CONSTRUCTION JOINT.

MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM	1
BRIDGE BARRIER RAILING, TYPE 5	LFT	162.3
CONCRETE MEDIAN BARRIER (SP.)	LFT	81.0

SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT. CYDS
A	59.5
B	83.4
TOTAL CONC.:	142.9

TABLE LONGITUDINAL BARS

RANGE	BARS	LENGTHS
G1 TO G4	EA032606	3
G4 TO G7	EA032904	3
G7 TO G10	EA033206	3
G1 TO G4	EA052611	3
G4 TO G7	EA052910	3
G7 TO G10	EA053211	3

SCREED ELEVATIONS

	PIER 15	1/4	1/2	3/4	ABTB
WEST BARRIER	168.49	168.49	167.97	167.46	166.42
MEDIAN WEST	169.10	169.10	168.50	167.89	166.68
CONST. JT.	169.12	169.11	168.51	167.90	166.68
MEDIAN EAST	169.13	169.13	168.52	167.91	166.68
EAST BARRIER	169.22	169.22	168.52	167.82	166.42

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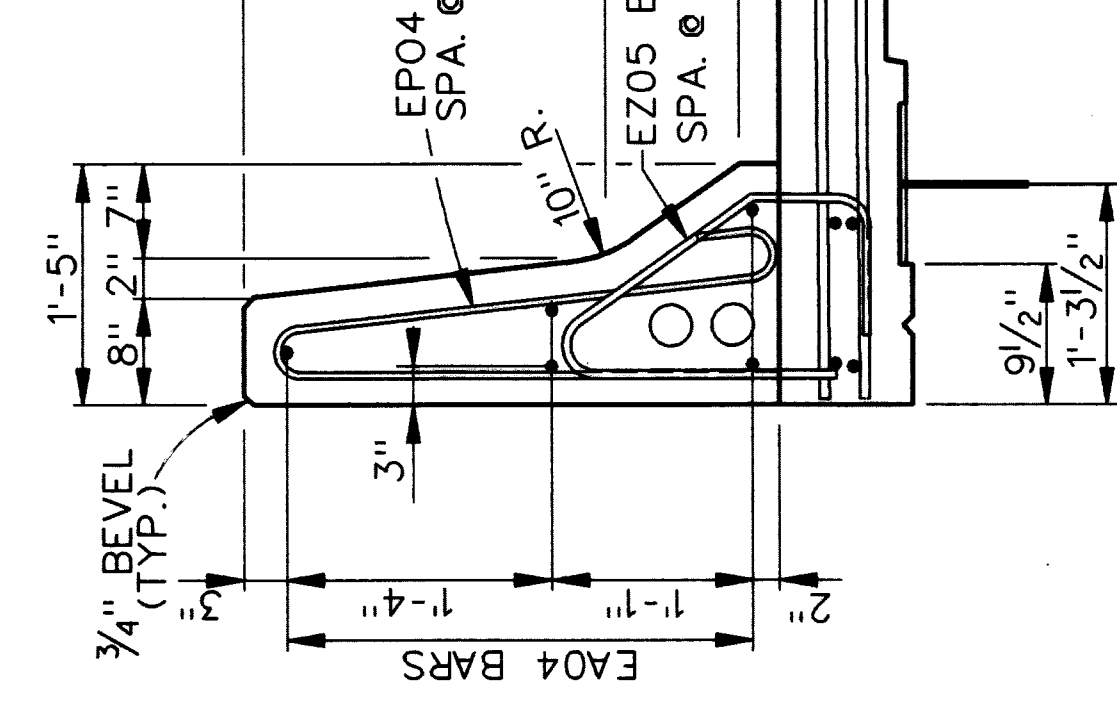
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
SUPERSTRUCTURE DETAILS

NO.	DESCRIPTION	DATE	BY

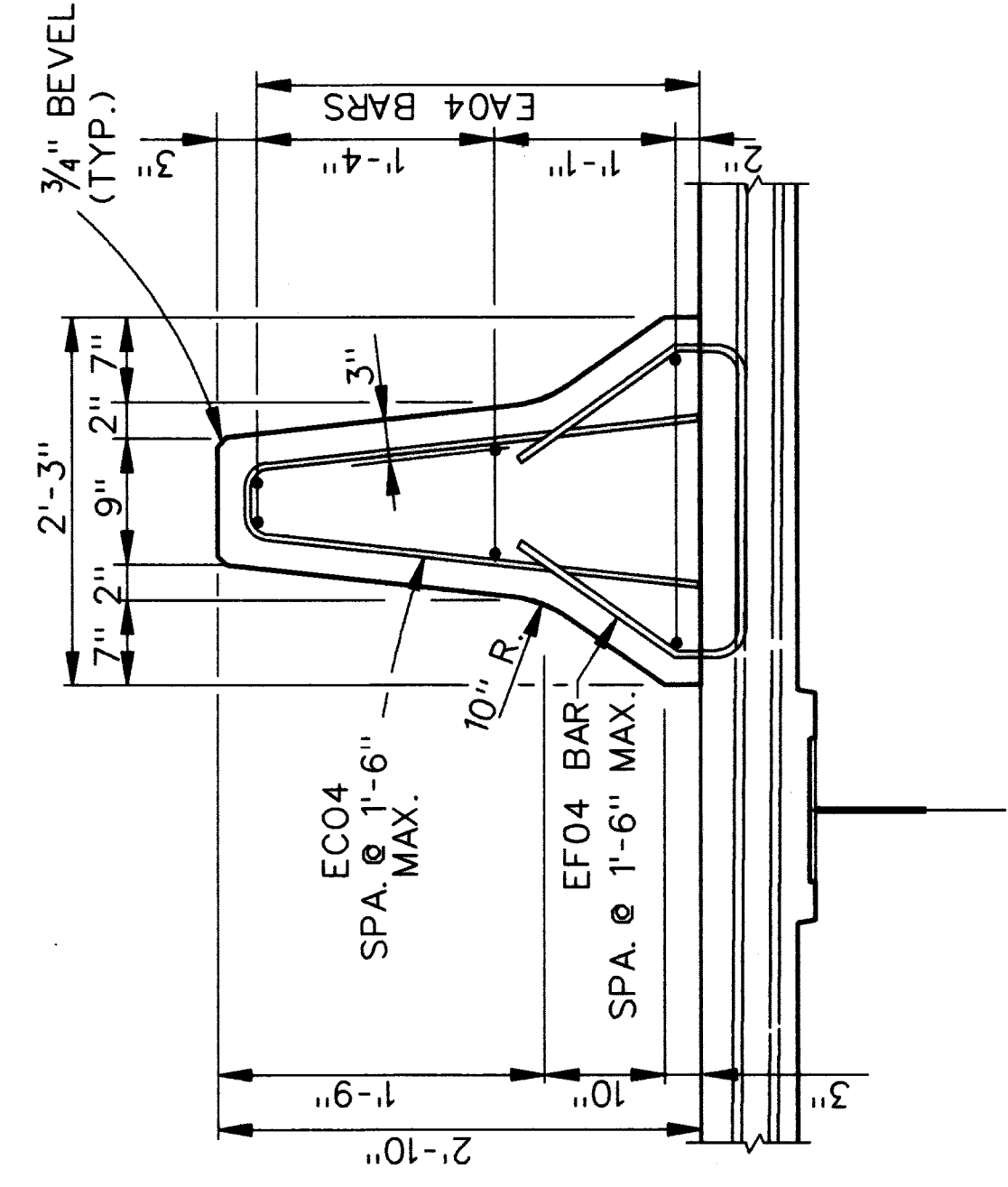
DESIGNED BY	CHECKED BY	DATE

DRAWN BY	NAME	DATE

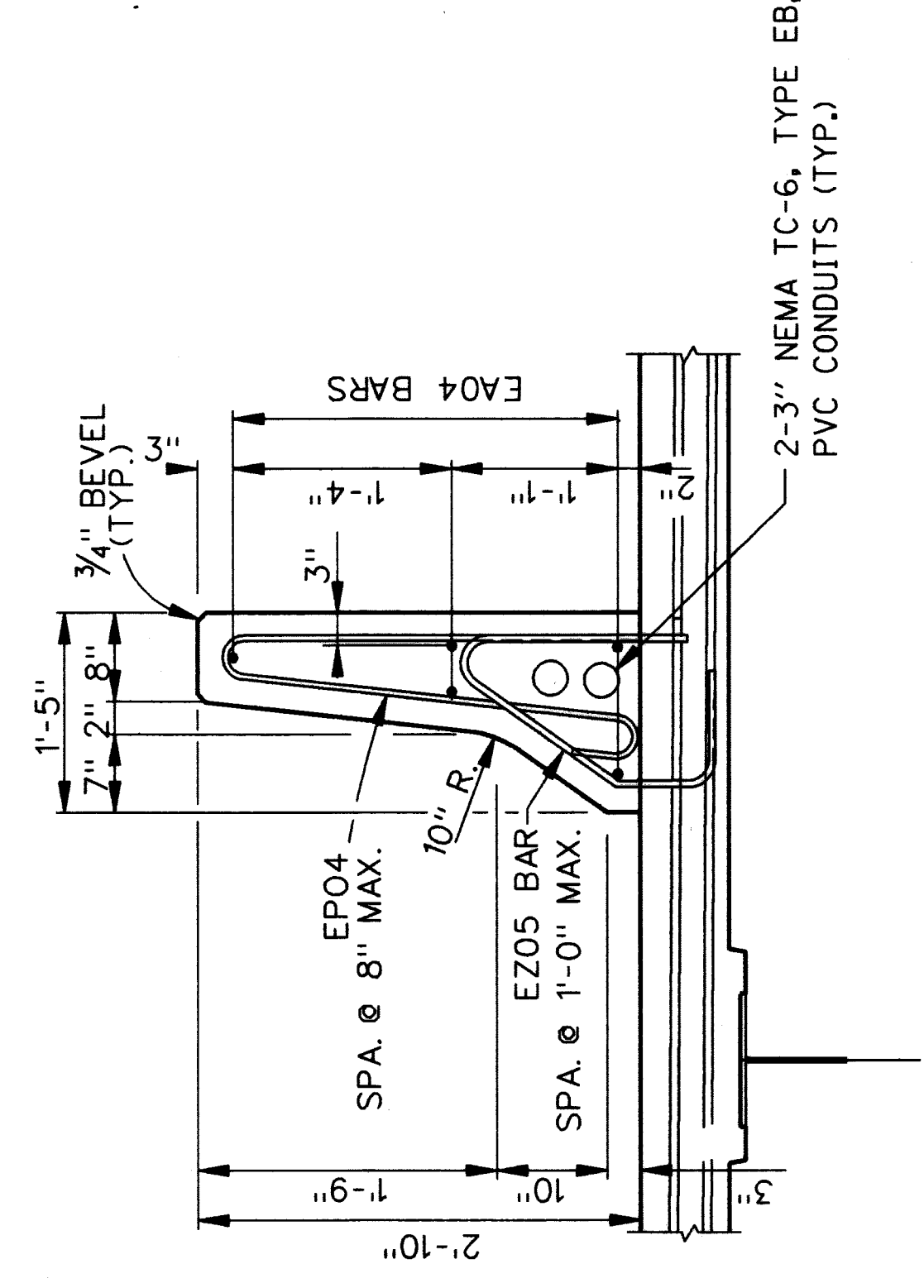
B01 of 82-22-48



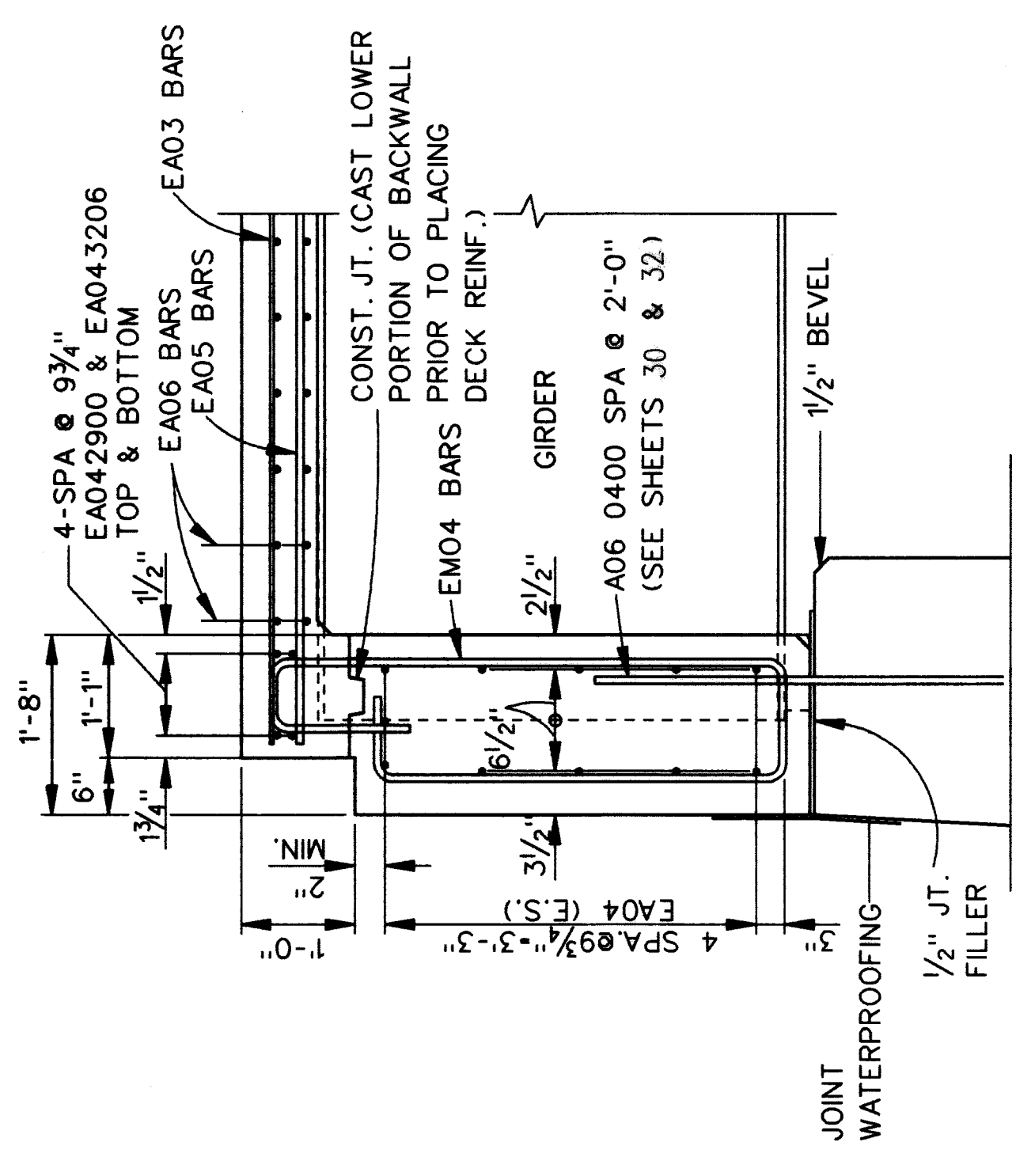
SECTION GG



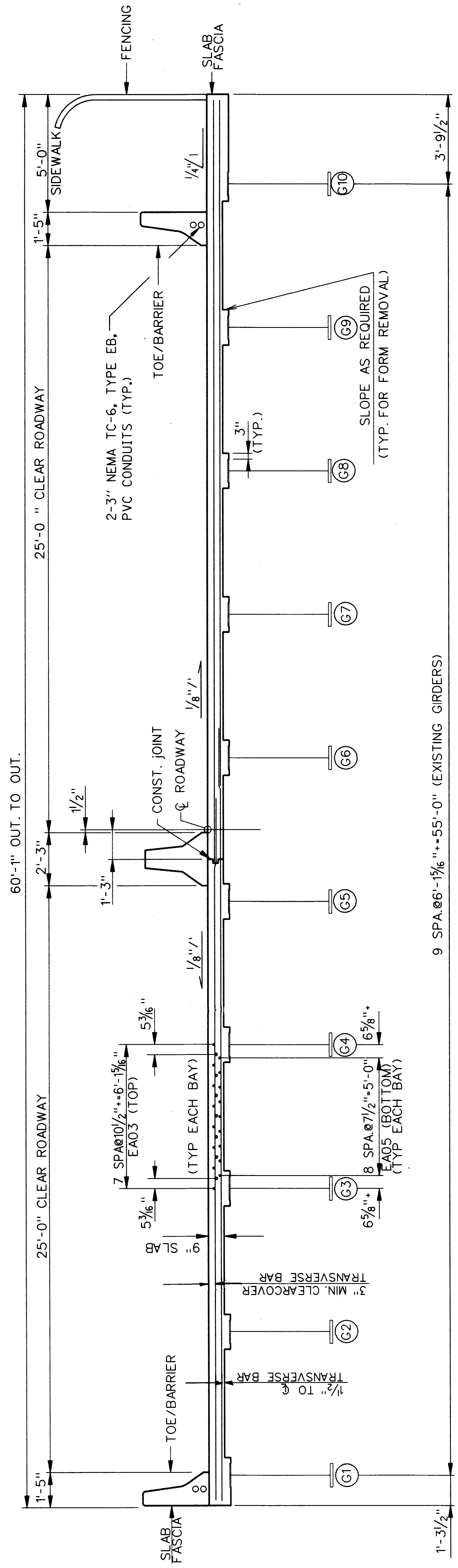
SECTION HH



SECTION II



SECTION KK



SECTION JJ

NOTE: WORK THIS SHEET WITH SHEET 39 AND 43.



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18431 JAMES COUZENS DETROIT, MI 48236

THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
SUPERSTRUCTURE DETAILS

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	44	OF 57

B01 of 82-22-48

NO.	REVISIONS	DATE	BY

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h	
SPAN 7									
EA033000	30'-0"								300
EA042410	24'-10"								20
EA042606	26'-6"								25
EA042809	28'-9"								24
EA052900	29'-0"								151
EA053000	30'-0"								19
EA053003	30'-3"								35
EA053704	37'-4"								107
EA053803	38'-3"								24
EA053807	38'-7"								44
EA062309	23'-9"								16
EA062805	28'-5"								16
EA063109	31'-9"								22
EA063600	36'-0"								8
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		74
ED040408	9"	3'-2"	9"						4
ED040507	11"	3'-9"	11"						3
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				74
EP040602	2'-5 3/4"	6 1/2"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	329
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	316
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	12
TOTAL SPAN 7 STEEL REINFORCEMENT									0
TOTAL SPAN 7 STEEL REINFORCEMENT, EPOXY COATED									24,064

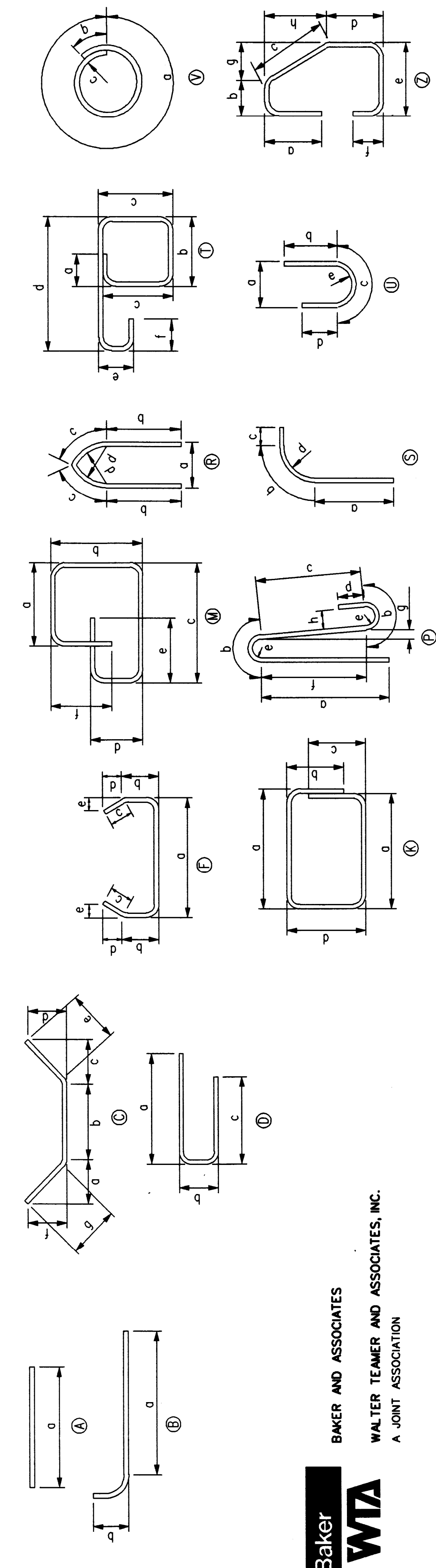
BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h	
SPAN 9									
EA032805	28'-5"								300
EA042803	28'-3"								20
EA042806	28'-6"								24
EA042900	29'-0"								20
EA052711	27'-11"								8
EA052900	29'-0"								169
EA053202	32'-2"								13
EA053700	37'-4"								16
EA053704	37'-4"								161
EA053902	39'-0"								11
EA062010	20'-10"								16
EA062105	21'-5"								51
EA063009	30'-9"								8
EA063304	33'-4"								401
EA062900	29'-0"								8
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		74
ED040507	11"	3'-9"	11"						3
ED040408	9"	3'-2"	9"						4
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				74
EP040602	2'-5 3/4"	6 1/2"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	330
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	319
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8
TOTAL SPAN 9 STEEL REINFORCEMENT									0
TOTAL SPAN 9 STEEL REINFORCEMENT, EPOXY COATED									23,228

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h	
SPAN 11									
EA032603	26'-3"								300
EA042606	26'-6"								64
EA062706	27'-6"								140
EA062909	29'-9"								8
EA063706	37'-6"								132
EA062805	38'-5"								8
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		69
ED040507	11"	3'-9"	11"						3
ED040408	9"	3'-2"	9"						4
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				69
EP040602	2'-5 3/4"	6 1/2"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	308
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	294
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8
TOTAL SPAN 11 STEEL REINFORCEMENT									0
TOTAL SPAN 11 STEEL REINFORCEMENT, EPOXY COATED									21,427

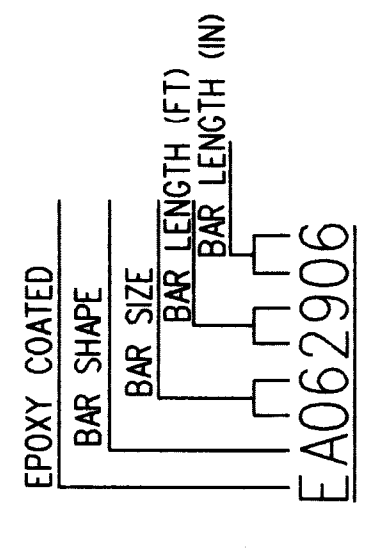
BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h	
SPAN 8									
EA032506	25'-6"								375
EA040600	6'-0"								16
EA042406	24'-6"								80
EA052900	29'-0"								188
EA053704	37'-4"								178
EA061200	12'-0"								75
EA063206	32'-6"								8
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		83
ED040408	9"	3'-2"	9"						4
ED040507	11"	3'-9"	11"						3
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				83
EP040602	2'-5 3/4"	6 1/2"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	370
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	360
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8
TOTAL SPAN 8 STEEL REINFORCEMENT									0
TOTAL SPAN 8 STEEL REINFORCEMENT, EPOXY COATED									23,308

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h	
SPAN 10									
EA032702	27'-2"								225
EA042705	27'-5"								48
EA062909	29'-9"								103
EA063006	30'-6"								8
EA063805	38'-5"								103
EA063909	39'-9"								8
EA062709	27'-9"								6
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		54
ED040507	11"	3'-9"	11"						3
ED040408	9"	3'-2"	9"						4
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				54
EP040602	2'-5 3/4"	6 1/2"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	240
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	228
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8
TOTAL SPAN 10 STEEL REINFORCEMENT									0
TOTAL SPAN 10 STEEL REINFORCEMENT, EPOXY COATED									17,395

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h	
SPAN 12									
EA032603	26'-3"								300
EA042606	26'-6"								64
EA042900	29'-0"								170
EA053703	37'-3"								170
EA062900	29'-0"								16
EA063703	37'-3"								16
EA062700	27'-0"								8
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		69
ED040408	9"	3'-2"	9"						4
ED040507	11"	3'-9"	11"						3
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				69
EP040602	2'-5 3/4"	6 1/2"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	308
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	198
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8
TOTAL SPAN 12 STEEL REINFORCEMENT									0
TOTAL SPAN 12 STEEL REINFORCEMENT, EPOXY COATED									21,063



NOTES: ALL BENDS IN REINFORCING STEEL TO BE MADE ABOUT A PIN OF THE MINIMUM DIAMETER ALLOWED BY THE STANDARD SPECIFICATION. TOLERANCES IN CUTTING AND BENDING BARS ARE AS ESTABLISHED IN MANUAL OF STANDARD PRACTICE OF THE REINFORCING STEEL INSTITUTE AND DETAILING MANUAL OF THE AMERICAN CONCRETE INSTITUTE. WHERE FIELD CUTTING OF EPOXY BARS IS REQUIRED, THE CONTRACTOR SHALL REPAIR THE EPOXY COATING AT THE CUT END AS PROVIDED FOR IN SUPPLEMENTAL SPECIFICATION 5.03 (3 SERIES). (INCLUDED IN STEEL REINFORCEMENT, EPOXY COATED.) REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN ON THIS SHEET.



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THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 REINFORCEMENT BAR LIST

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
DRAWN BY	NAME	DATE
SHEET	46	OF 57

B01 of 82-22-48

BAR	a	b	c	d	e	f	g	h	NO. REQ'D	TOTAL WT.
SOUTH APPROACH										
EA030300	3'-0"								253	285
EA040503	5'-3"								253	887
EA041900	19'-0"								7	89
EA042009	20'-9"								7	97
EA042809	28'-9"								30	575
EA043009	30'-9"								30	616
EA044009	40'-9"								207	5635
EC040408	0"	3'-6"	2/8"	1'-3/8"	1'-2"	0"	0"	0"	253	789
EC040508	3"	6"	3"	2'-7"	2'-7"	2'-7"	2'-7"	0"	200	822
EP040602	2'-5/4"	6/4"	2'-4"	3/4"	1/2"	2'-3/4"	2/4"	3"	162	4787
EZ040307	1'-2/2"	4/2"	1'-3/4"	9/4"	0"	0"	9"	9"	600	1434
EZ050309	1'-4/2"	3/2"	1'-3/4"	9/4"	0"	0"	9"	1'-1"	570	2229
EZ050411	1'-7"	3/4"	1'-3/4"	10"	10/2"	0"	9"	9"	395	2025
TOTAL SOUTH APPROACH STEEL REINFORCEMENT										
									0	
TOTAL SOUTH APPROACH STEEL REINFORCEMENT, EPOXY COATED										
									20,270	

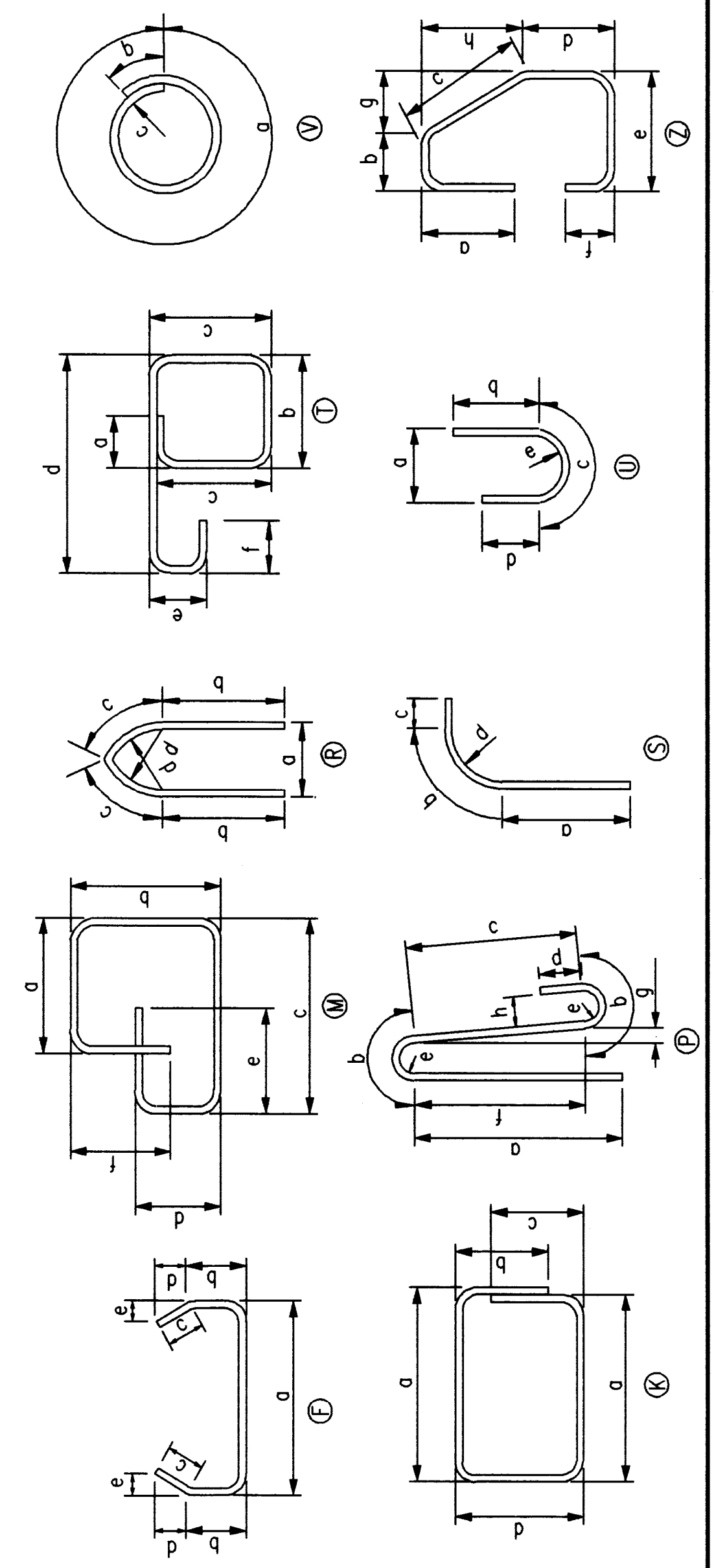
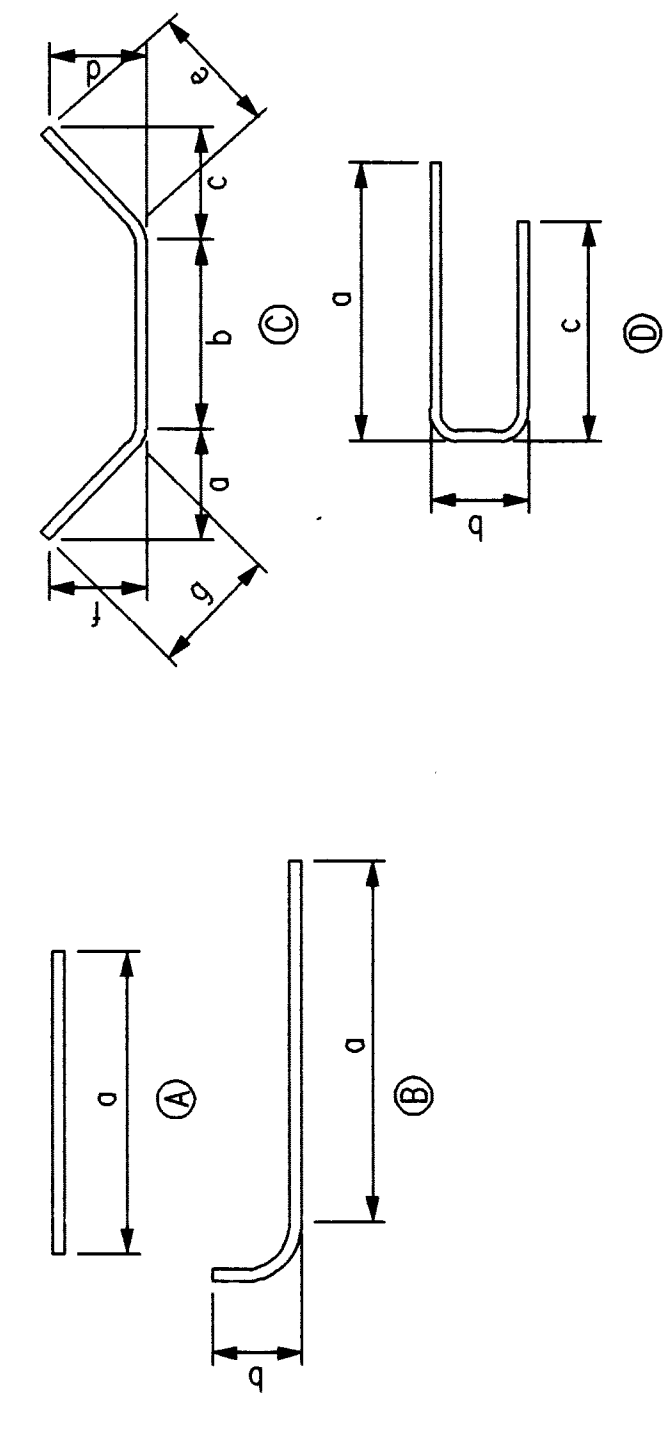
BAR	a	b	c	d	e	f	g	h	NO. REQ'D	TOTAL WT.
STEEL REINFORCEMENT										
TOTAL										
STEEL REINFORCEMENT, EPOXY COATED										
TOTAL										

BAR	a	b	c	d	e	f	g	h	NO. REQ'D	TOTAL WT.
STEEL REINFORCEMENT										
TOTAL										
STEEL REINFORCEMENT, EPOXY COATED										
TOTAL										

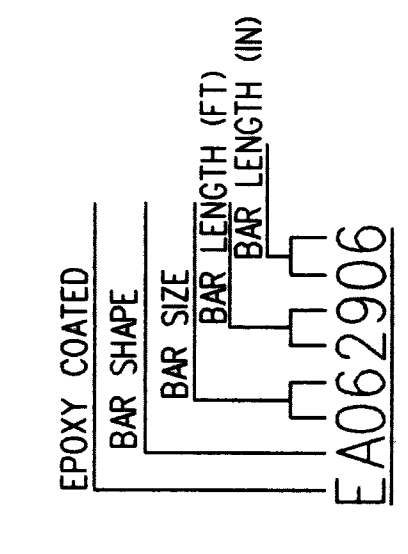
BAR	a	b	c	d	e	f	g	h	NO. REQ'D	TOTAL WT.
NORTH APPROACH										
EA030300	3'-0"								100	113
EA040503	5'-3"								100	351
EA042406	24'-6"								6	98
EA043803	38'-3"								124	3168
EC040408	0"	3'-6"	2/8"	1'-3/8"	1'-2"	0"	0"	0"	100	312
EC040508	3"	6"	3"	2'-7"	2'-7"	2'-7"	2'-7"	0"	167	632
EP040602	2'-5/4"	6/4"	2'-4"	3/4"	1/2"	2'-3/4"	2/4"	3"	450	1854
EZ040307	1'-2/2"	4/2"	1'-3/4"	9/4"	0"	0"	9"	9"	500	1197
EZ050309	1'-4/2"	3/2"	1'-3/4"	9/4"	0"	0"	9"	1'-1"	225	880
EZ050411	1'-7"	3/4"	1'-3/4"	10"	10/2"	0"	9"	9"	150	769
TOTAL NORTH APPROACH STEEL REINFORCEMENT										
									0	
TOTAL NORTH APPROACH STEEL REINFORCEMENT, EPOXY COATED										
									9374	

BAR	a	b	c	d	e	f	g	h	NO. REQ'D	TOTAL WT.
STEEL REINFORCEMENT										
TOTAL										
STEEL REINFORCEMENT, EPOXY COATED										
TOTAL										

BAR	a	b	c	d	e	f	g	h	NO. REQ'D	TOTAL WT.
STEEL REINFORCEMENT										
TOTAL										
STEEL REINFORCEMENT, EPOXY COATED										
TOTAL										



NOTES: ALL BENDS IN REINFORCING STEEL TO BE MADE ABOUT A PIN OF THE MINIMUM DIAMETER ALLOWED BY THE STANDARD SPECIFICATION.
 TOLERANCES IN CUTTING AND BENDING BARS ARE AS ESTABLISHED IN MANUAL OF STANDARD PRACTICE OF THE REINFORCING STEEL INSTITUTE AND DETAILING MANUAL OF THE AMERICAN CONCRETE INSTITUTE.
 WHERE FIELD CUTTING OF EPOXY BARS IS REQUIRED, THE CONTRACTOR SHALL REPAIR THE EPOXY COATING AT THE CUT END AS PROVIDED FOR IN SUPPLEMENTAL SPECIFICATION 5.03 (3 SERIES). (INCLUDED IN STEEL REINFORCEMENT, EPOXY COATED.)
 REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN ON THIS SHEET.



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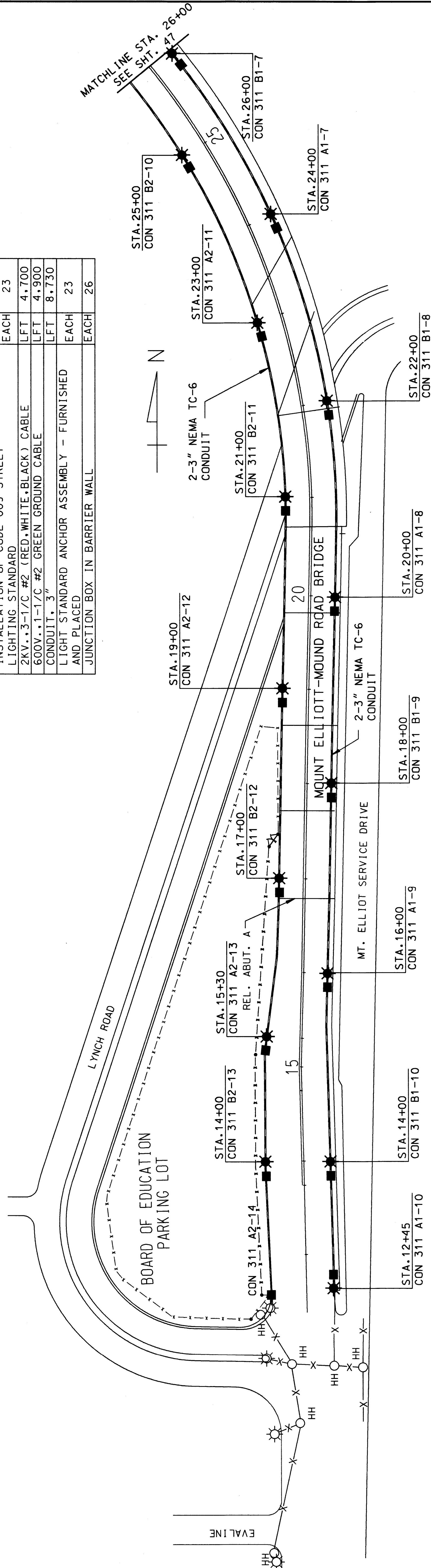
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 REINFORCEMENT BAR LIST

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
DRAWN BY	NAME	DATE
DATE	NO.	OF
1/94	57	57

B01 OF 82-22-48

MAP 3
 CIRCUIT - CONNER 311
 SET - 50KVA
 LOAD - 19KVA
 SECTION - 23
 PAGE - 507

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
250 WATT HIGH PRESSURE SODIUM LUMINAIRE	EACH	23
REMOVAL OF EXISTING CODE 009 STREET LIGHTING STANDARD	EACH	23
INSTALLATION OF CODE 009 STREET LIGHTING STANDARD	EACH	23
2KV., 3-1/C #2 (RED, WHITE, BLACK) CABLE	LFT	4,700
600V., 1-1/2 #2 GREEN GROUND CABLE	LFT	4,900
CONDUIT, 3"	LFT	8,730
LIGHT STANDARD ANCHOR ASSEMBLY - FURNISHED AND PLACED	EACH	23
JUNCTION BOX IN BARRIER WALL	EACH	26



LEGEND

- BUILD 2-3 INCH, NEMA TC-6 PVC CONDUIT AND ENCASE IN BRIDGE BARRIER WALL. CONDUIT RUN BETWEEN JUNCTION BOXES TO BE 2-3 INCH; LATERAL TO LIGHT TO BE 1-3 INCH.
- ☼ REMOVE EXISTING CODE 009 STREET LIGHTING STANDARD, 6 FT. BRACKET ARM AND EXISTING 250 W. HPSV, 480 VOLT COBRA HEAD LUMINAIRE. RETURN STANDARD AND BRACKET ARM TO PLD FOR ISSUE OF A NEW STANDARD AND BRACKET ARM, AND RETURN LUMINAIRE TO PLD. INSTALL NEW CODE 009 STANDARD, BRACKET ARM AND CONTRACTOR PROVIDED 250 WATT HIGH PRESSURE SODIUM LUMINAIRE ON NEW BARRIER WALL WITH A 13-1/2 INCH BOLT CIRCLE FOUNDATION. DOUBLE-NUT THE STANDARD.
- JUNCTION BOX IN BARRIER. SEE BRIDGE DRAWING FOR DETAILS.
- ☼ STA. 12+045 CON 311-A1 STATION LOCATION
- X — CIRCUIT LEG
- X — CIRCUIT NO.

- _{HH} EXISTING HANDHOLE TO REMAIN
- X — EXISTING CONDUIT.
- ☼ EXISTING POLE TO REMAIN. (NO WORK REQUIRED)

GENERAL NOTES

- NO "FLEX CONDUIT" IS ALLOWED ON THE PLD SYSTEM.
- NO CONDUIT ENCASMENT IS TO BE POURED BEFORE IT IS INSPECTED BY THE PLD INSPECTOR (MR. KEN HARDAWAY, PHONE 313-267-6043).
- CONTACT THE PLD SYSTEM OPERATOR AT 313-224-0500 FOR RED-TAG CLEARANCE 36 HOURS BEFORE WORKING ON ANY PLD CIRCUIT.
- CIRCUIT INFORMATION TO BE STENCILED ON ALL STREET LIGHTING STANDARDS. STENCIL THE STANDARDS AS FOLLOWS:

CON 311 B1-9
 USE A CONTRASTING -
 COLOR ENAMEL PAINT

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 LIGHTING DETAILS

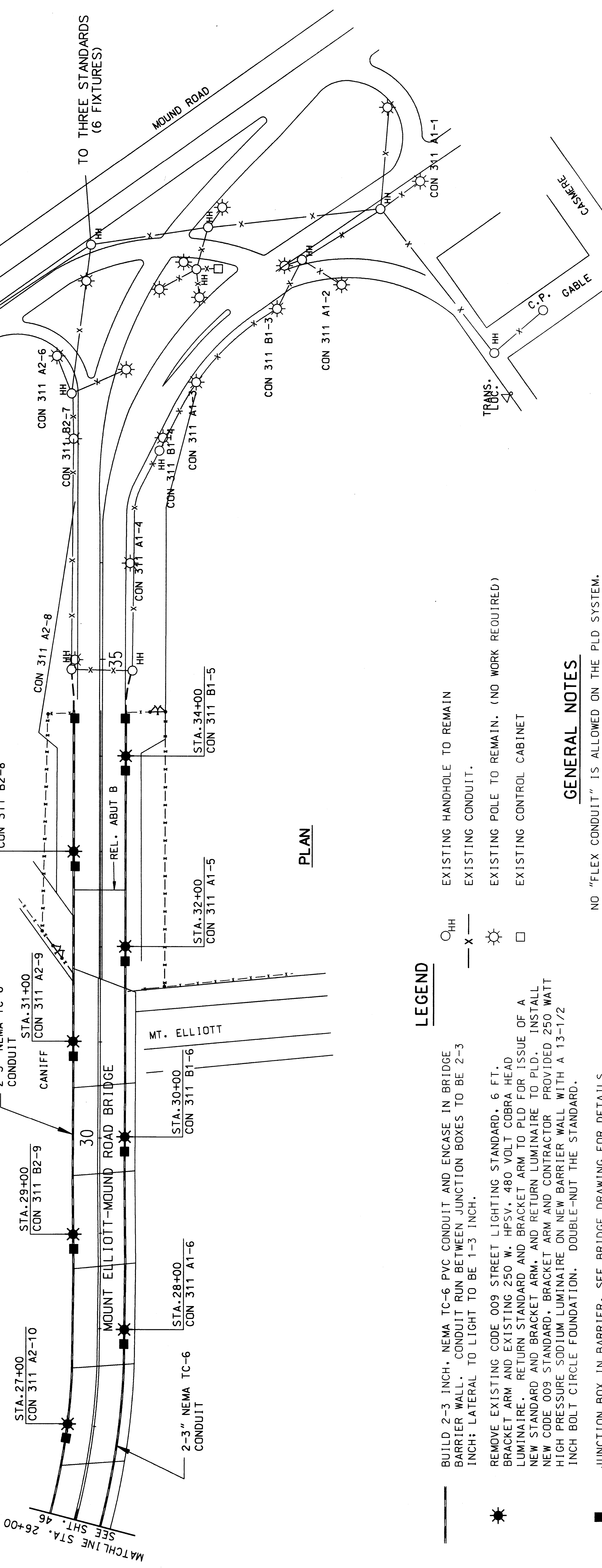
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE

B01 of 82-22-48

MAP 3
CIRCUIT - CONNER 311
SET - 50KVA
LOAD - 19KVA
SECTION - 23
PAGE - 507

MATCHLINE STA. 26+00
SEE SHT. 46



PLAN

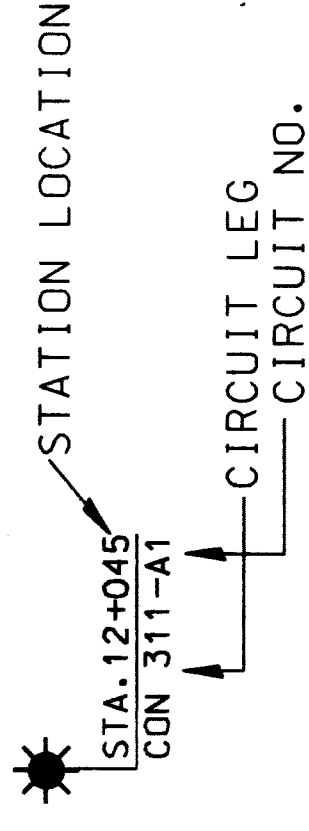
LEGEND

- BUILD 2-3 INCH, NEMA TC-6 PVC CONDUIT AND ENCASE IN BRIDGE BARRIER WALL. CONDUIT RUN BETWEEN JUNCTION BOXES TO BE 2-3 INCH; LATERAL TO LIGHT TO BE 1-3 INCH.
- ★ REMOVE EXISTING CODE 009 STREET LIGHTING STANDARD, 6 FT. BRACKET ARM AND EXISTING 250 W. HPSV, 480 VOLT COBRA HEAD LUMINAIRE. RETURN STANDARD AND BRACKET ARM TO PLD FOR ISSUE OF A NEW STANDARD AND BRACKET ARM, AND RETURN LUMINAIRE TO PLD. INSTALL NEW CODE 009 STANDARD, BRACKET ARM AND CONTRACTOR PROVIDED 250 WATT HIGH PRESSURE SODIUM LUMINAIRE ON NEW BARRIER WALL WITH A 13-1/2 INCH BOLT CIRCLE FOUNDATION. DOUBLE-NUT THE STANDARD.
- JUNCTION BOX IN BARRIER. SEE BRIDGE DRAWING FOR DETAILS.
- _{HH} EXISTING HANDHOLE TO REMAIN
- X — EXISTING CONDUIT.
- ☀ EXISTING POLE TO REMAIN. (NO WORK REQUIRED)
- EXISTING CONTROL CABINET

GENERAL NOTES

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 CIRCUIT INFORMATION TO BE STENCILED ON ALL STREET LIGHTING STANDARDS.
 STENCIL THE STANDARDS AS FOLLOWS:

CON 311 B1-9
 USE A CONTRASTING - COLOR ENAMEL PAINT



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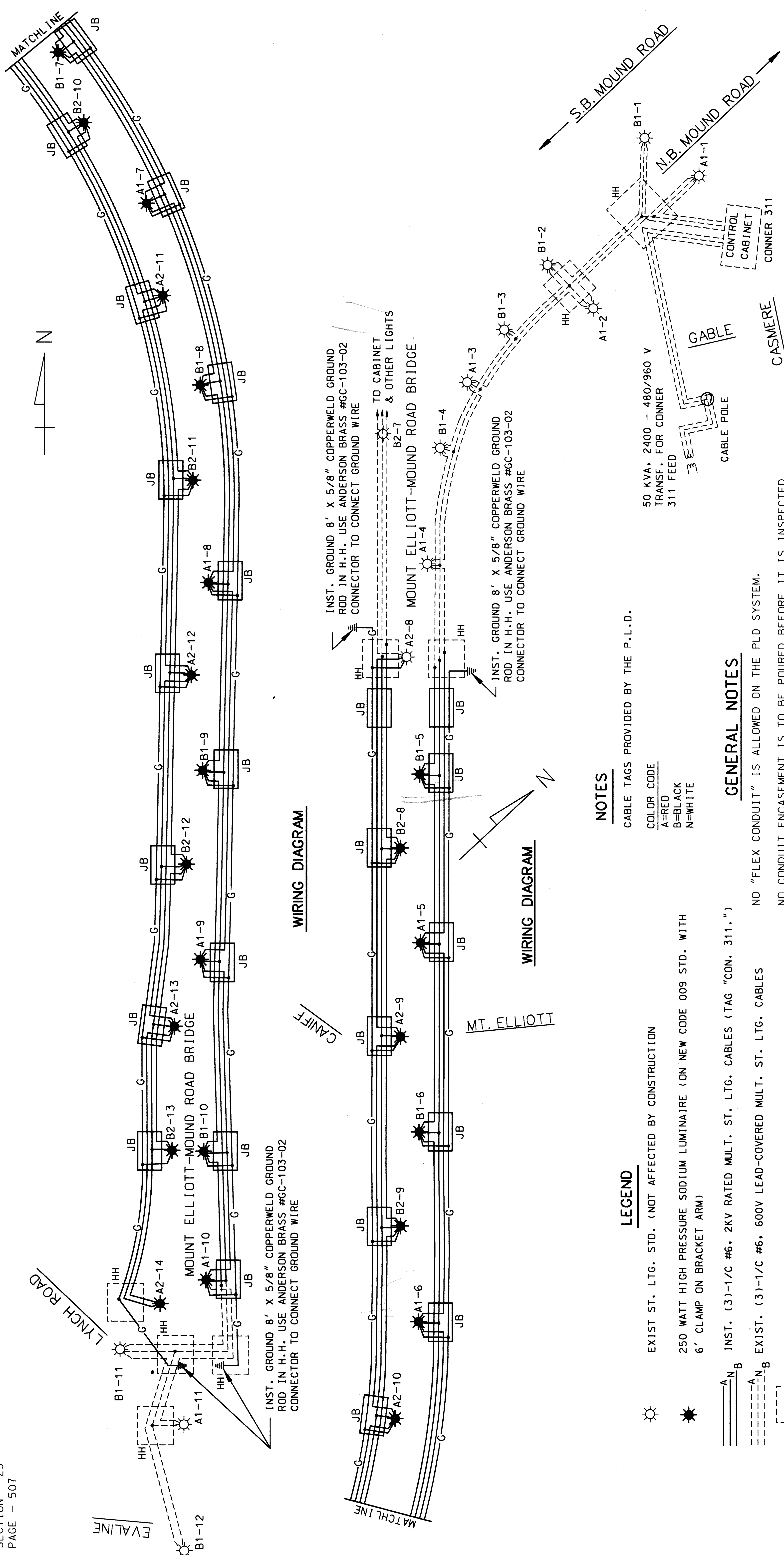
THE CITY OF DETROIT
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 LIGHTING DETAILS

NO.	DESCRIPTION	DATE	BY

DESIGNER	CHECKED BY	DATE	DATE

SHEET 50 OF 57
 B01 of 82-22-48

MAP 3
CIRCUIT - CONNER 311
SET - 50KVA
LOAD - 19KVA
SECTION - 23
PAGE - 507



INST. GROUND 8' X 5/8" COPPERWELD GROUND ROD IN H.H. USE ANDERSON BRASS #GC-103-02 CONNECTOR TO CONNECT GROUND WIRE

INST. GROUND 8' X 5/8" COPPERWELD GROUND ROD IN H.H. USE ANDERSON BRASS #GC-103-02 CONNECTOR TO CONNECT GROUND WIRE

INST. GROUND 8' X 5/8" COPPERWELD GROUND ROD IN H.H. USE ANDERSON BRASS #GC-103-02 CONNECTOR TO CONNECT GROUND WIRE

EXIST ST. LTG. STD. (NOT AFFECTED BY CONSTRUCTION)

250 WATT HIGH PRESSURE SODIUM LUMINAIRE (ON NEW CODE 009 STD. WITH 6' CLAMP ON BRACKET ARM)

INST. (3)-1/C #6, 2KV RATED MULT. ST. LTG. CABLES (TAG "CON. 311.")

EXIST. (3)-1/C #6, 600V LEAD-COVERED MULT. ST. LTG. CABLES

EXISTING HANDHOLE OR MANHOLE

PROPOSED JUNCTION BOX IN NEW BARRIER WALL

NOTES

CABLE TAGS PROVIDED BY THE P.L.D.

COLOR CODE
A=RED
B=BLACK
N=WHITE

GENERAL NOTES

NO "FLEX CONDUIT" IS ALLOWED ON THE PLD SYSTEM.

NO CONDUIT ENCASMENT IS TO BE POURED BEFORE IT IS INSPECTED BY THE PLD INSPECTOR (MR. KEN HARDWAY, PHONE 313-267-6043).

CONTACT THE PLD SYSTEM OPERATOR AT 313-224-0500 FOR RED-TAG CLEARANCE 36 HOURS BEFORE WORKING ON ANY PLD CIRCUIT.

CIRCUIT INFORMATION TO BE STENCILED ON ALL STREET LIGHTING STANDARDS. STENCIL THE STANDARDS AS FOLLOWS:

CON	USE A CONTRASTING -
311	COLOR ENAMEL PAINT
B1-9	

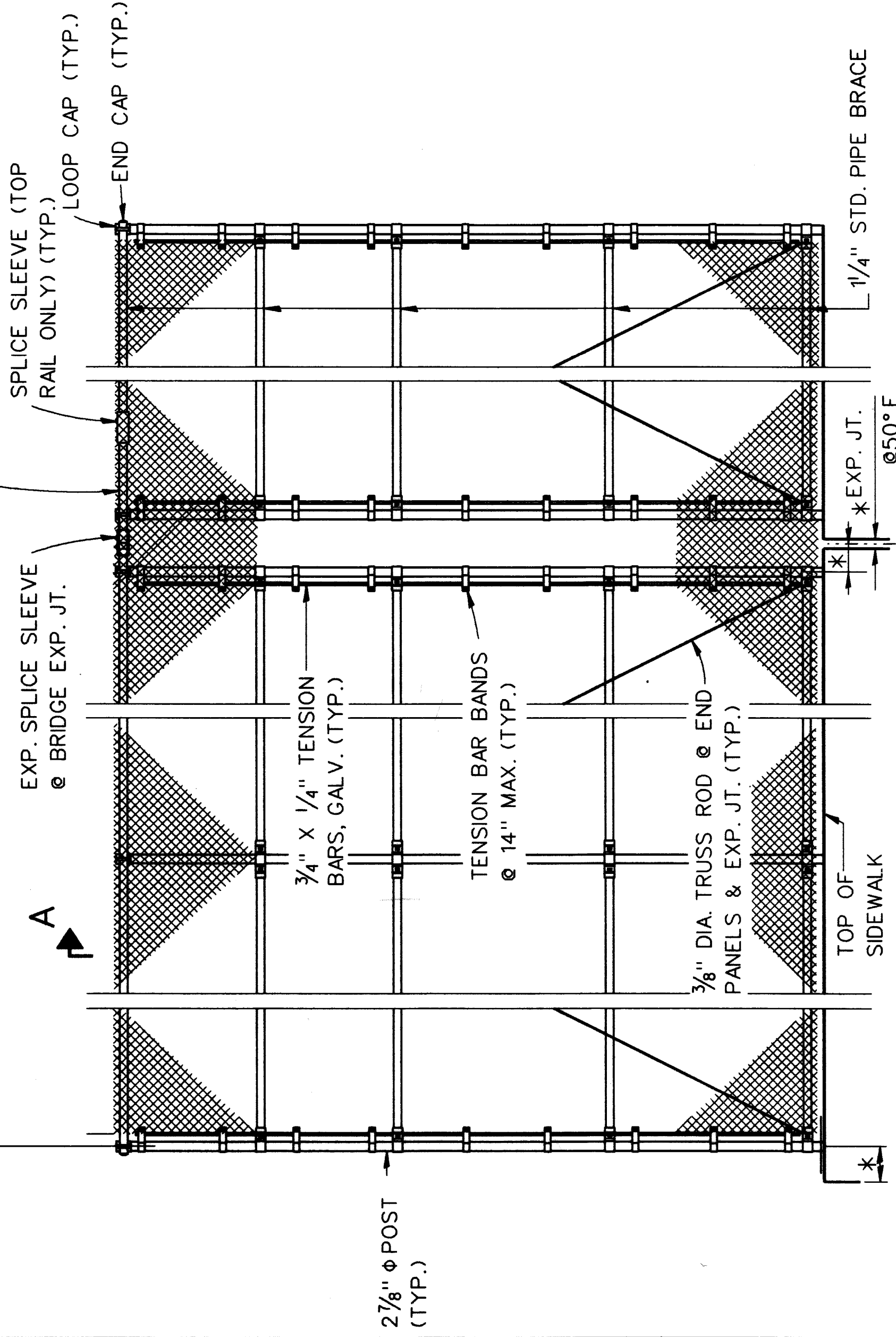
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MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
LIGHTING DETAILS

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
DRAWN BY	NAME	DATE
SCALE	SHEET	OF

B01 of 82-22-48

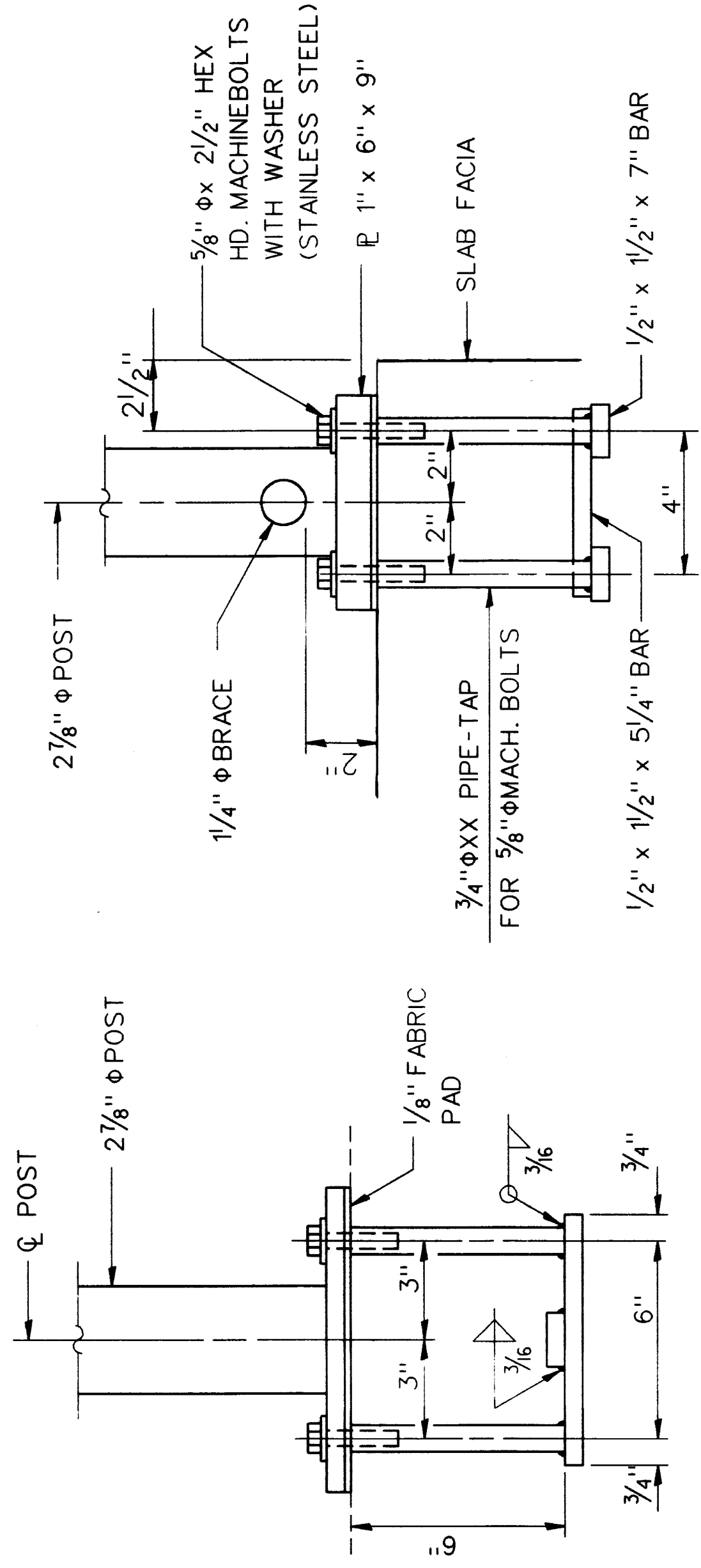
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9 GAGE GALV. DOUBLE TWISTED WIRE TIES @ 1'-3" MAX. ON PIPE BRACES AND 1'-0" MAX. ON POSTS



ELEVATION (INSIDE FACE)

NOTES:
 EXTEND FABRIC ACROSS EXP. JTS. TO ALLOW 2 1/2" (@50°F) OF SLACK IN THE FABRIC BETWEEN TENSION BARS. ADJUSTMENTS MAY BE MADE DUE TO TEMPERATURE AT THE DIRECTION OF THE ENGINEER.
 FENCE POSTS SHALL BE GALVANIZED 2 1/2" (2.875" O.D.) STEEL PIPE IN CONFORMANCE WITH ASTM F1083, SCHEDULE 40.
 THE MAX. POST SPACING FOR 1" MESH SHALL NOT EXCEED 8'-0".
 POSTS SHALL BE SHOP FABRICATED AS SHOWN ON THE PLANS.
 ALL COMPONENTS ARE TO BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153 AFTER FABRICATION.
 ALL CHAIN LINK FENCE FABRIC SHALL BE FURNISHED WITH KNUCKLING AT BOTH SELVAGES.
 CARE SHALL BE TAKEN TO THAT DEBRIS DOES NOT FALL FROM THE STRUCTURE.
 THE PAY LIMITS FOR "PEDESTRIAN FENCING-STRUCTURES" IS MEASURED FROM 1/2" FROM TOP OF SIDEWALK TO 4" EXTENDED PAST TOP RAIL OF FENCE.
 THE PEDESTRIAN FENCING SHALL CONFORM TO THE M.D.O.T. SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 1990 EDITION.
 BRACES SHALL NOT BE SPLICED.
 DIMENSIONS ARE HORIZONTAL ALONG C. FENCING.
 CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE FABRICATING.
 TENSION BARS SHALL BE 3/4" x 1/4" GALVANIZED STEEL.
 THE ITEM "PEDESTRIAN FENCING-STRUCTURES" INCLUDES CHAIN LINK FENCE FABRIC, POSTS, PIPE BRACES, BRACKETS, ANCHORS, SUITABLE CONNECTIONS, AND FITTINGS.

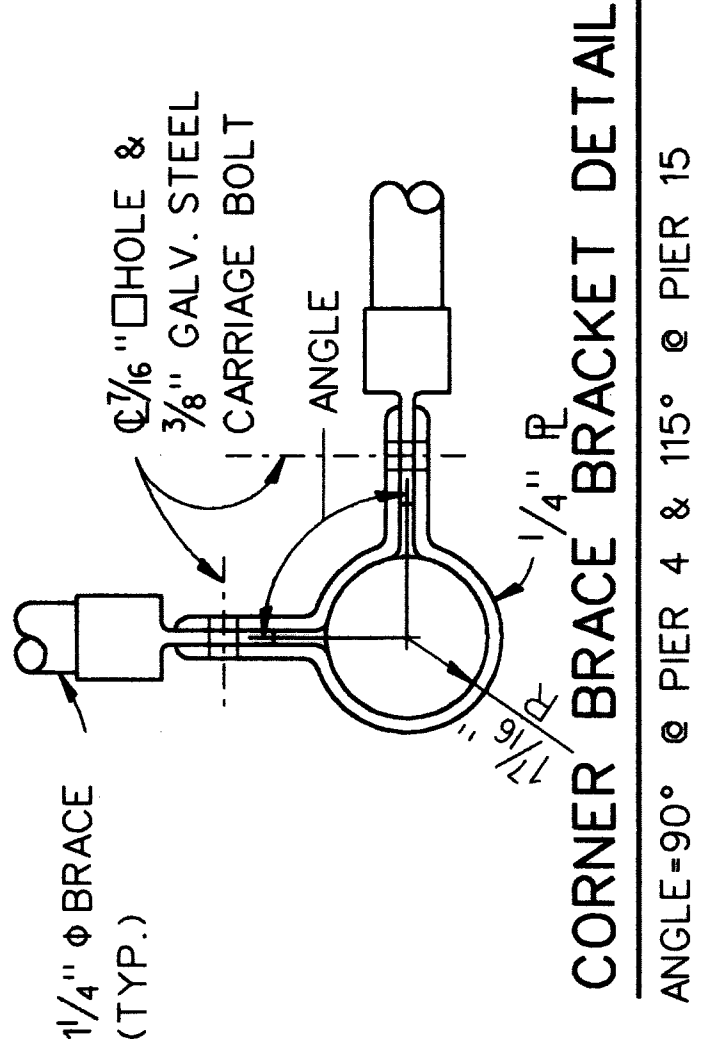


ANCHOR BOLT DETAILS

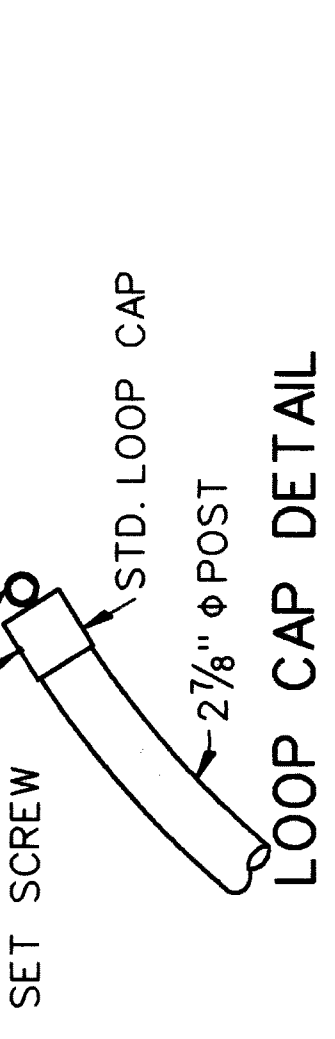
* Variable - See Plans (8'-0" Maximum Post Spacing)



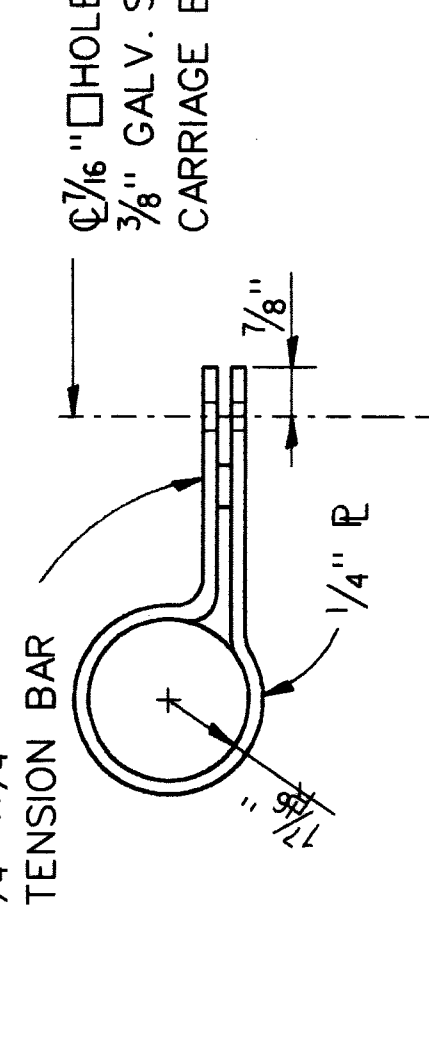
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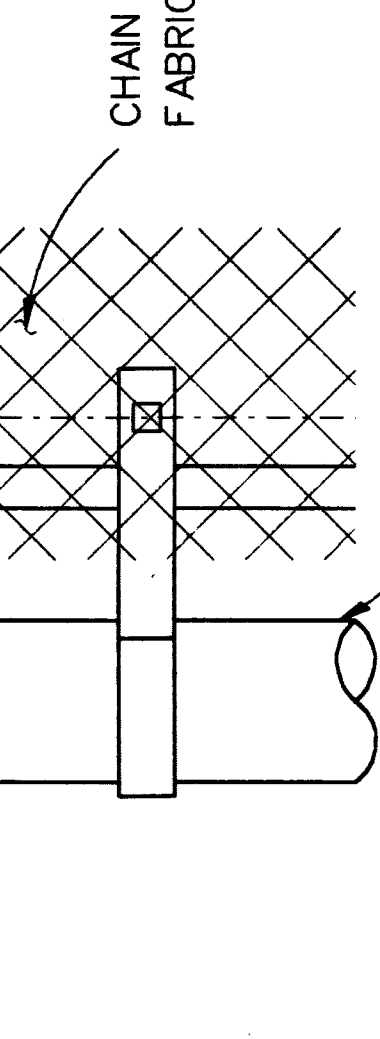
CORNER BRACE BRACKET DETAIL



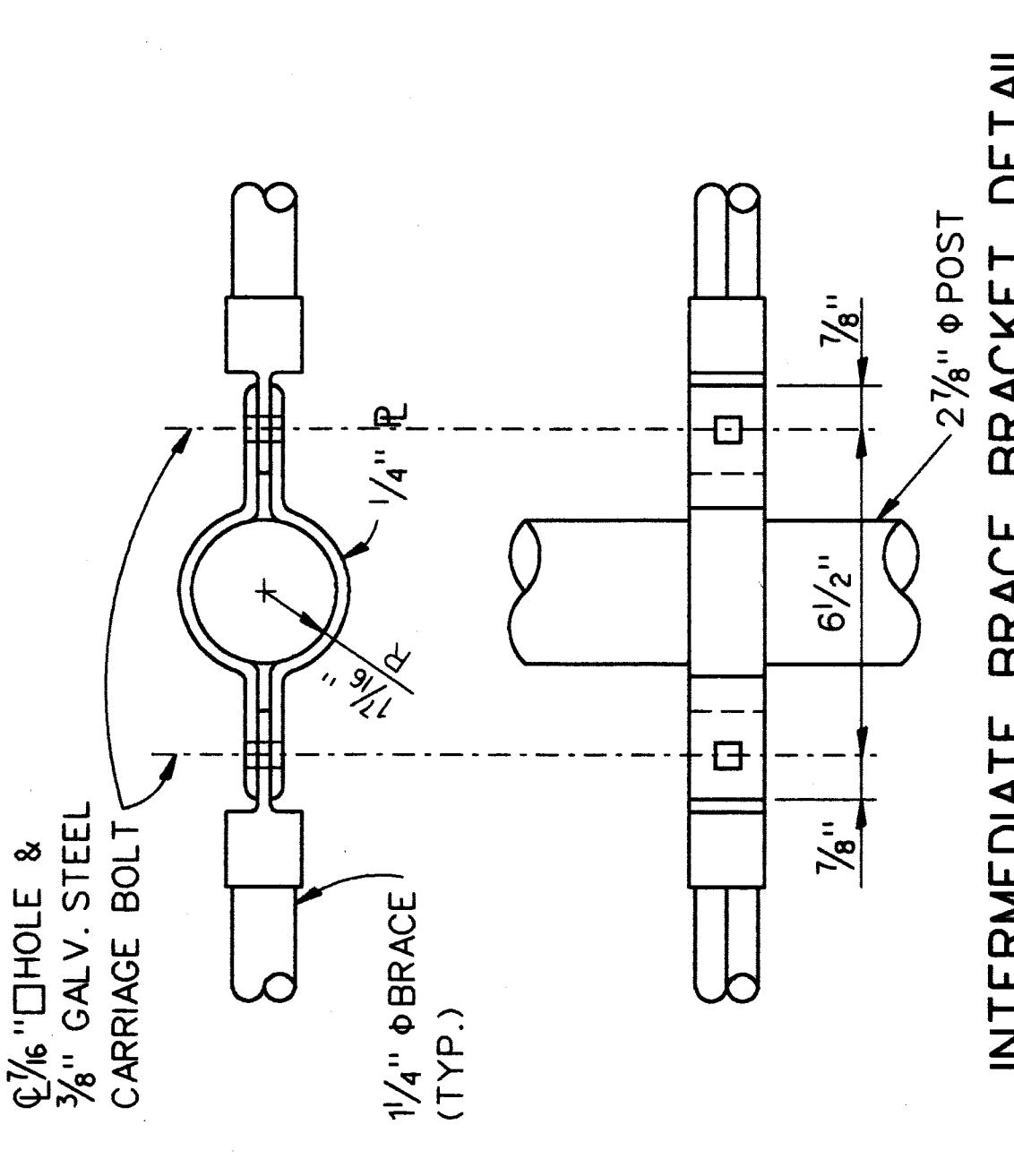
LOOP CAP DETAIL



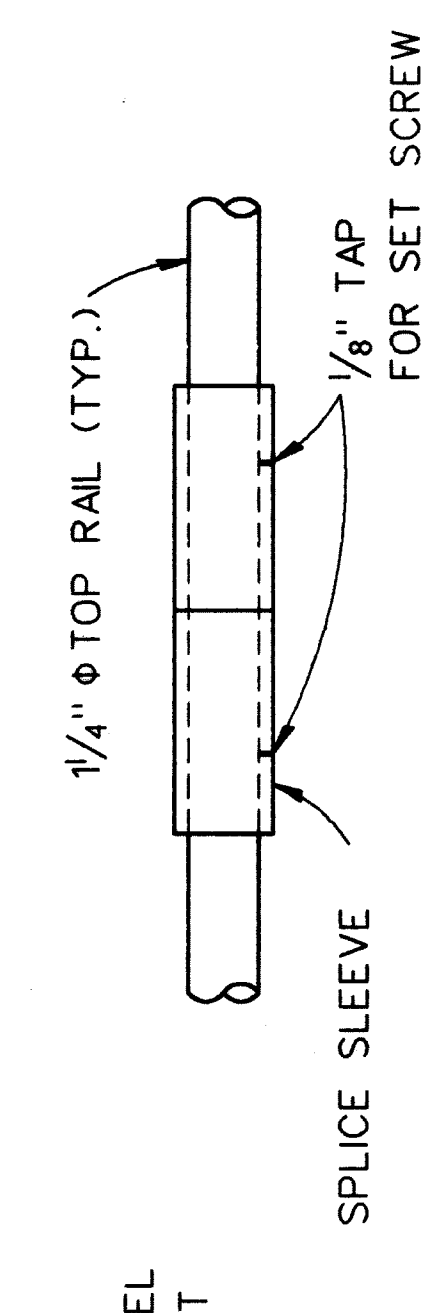
TENSION BAR BAND DETAIL



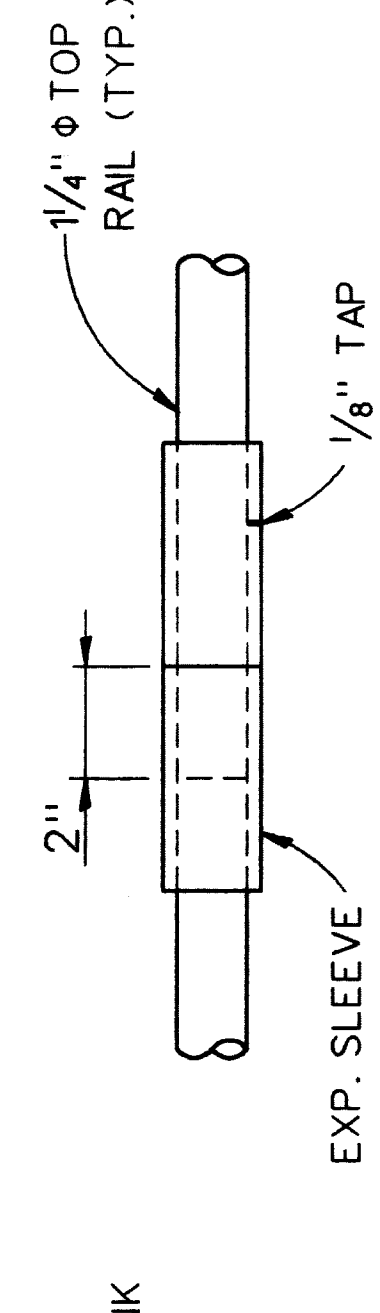
CHAIN LINK FABRIC



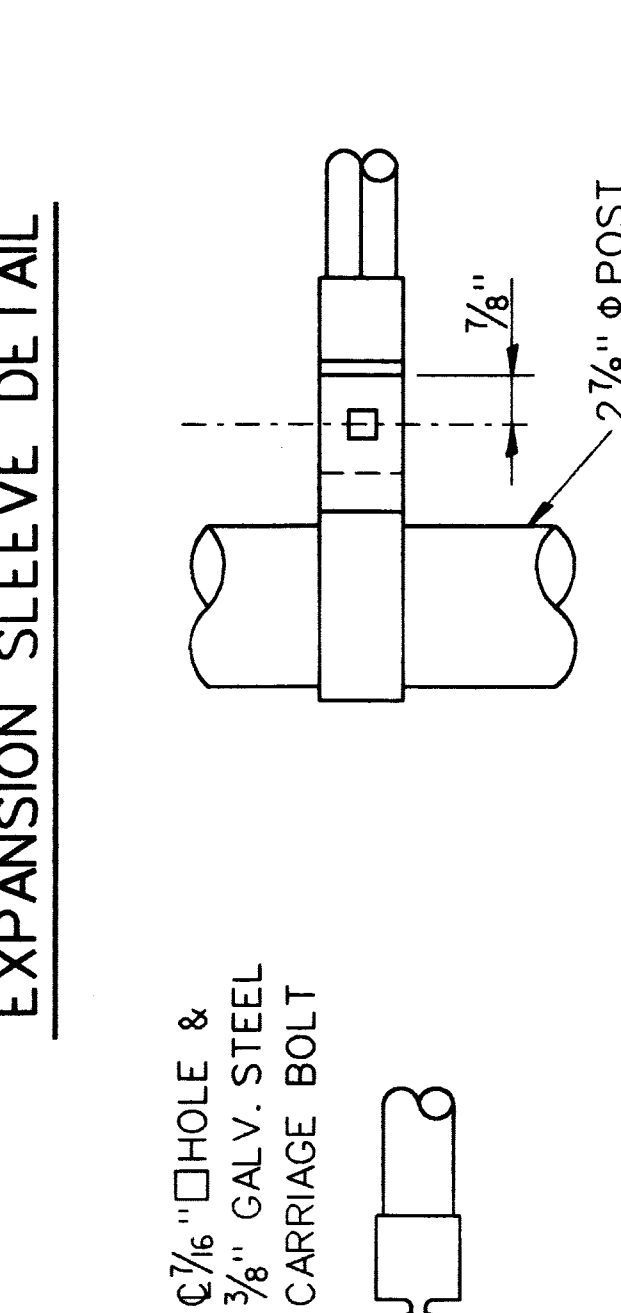
INTERMEDIATE BRACE BRACKET DETAIL



SPLICE SLEEVE DETAIL



EXPANSION SLEEVE DETAIL



TERMINAL BRACE BRACKET DETAIL

NOTES:
 MANUFACTURER'S STANDARD CONNECTIONS MAY BE SUBSTITUTED SUBJECT TO THE APPROVAL OF THE ENGINEER.
 TOP RAIL SHALL BE CONTINUOUS OVER NOT LESS THAN TWO INTERMEDIATE POSTS, EXCEPT THAT A SHORTED LENGTH IS PERMITTED AT EXPANSION JOINTS.
 CHAIN LINK FABRIC 9 GAGE WIRE, TO BE 1" MESH.

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 PEDESTRIAN FENCING DETAILS

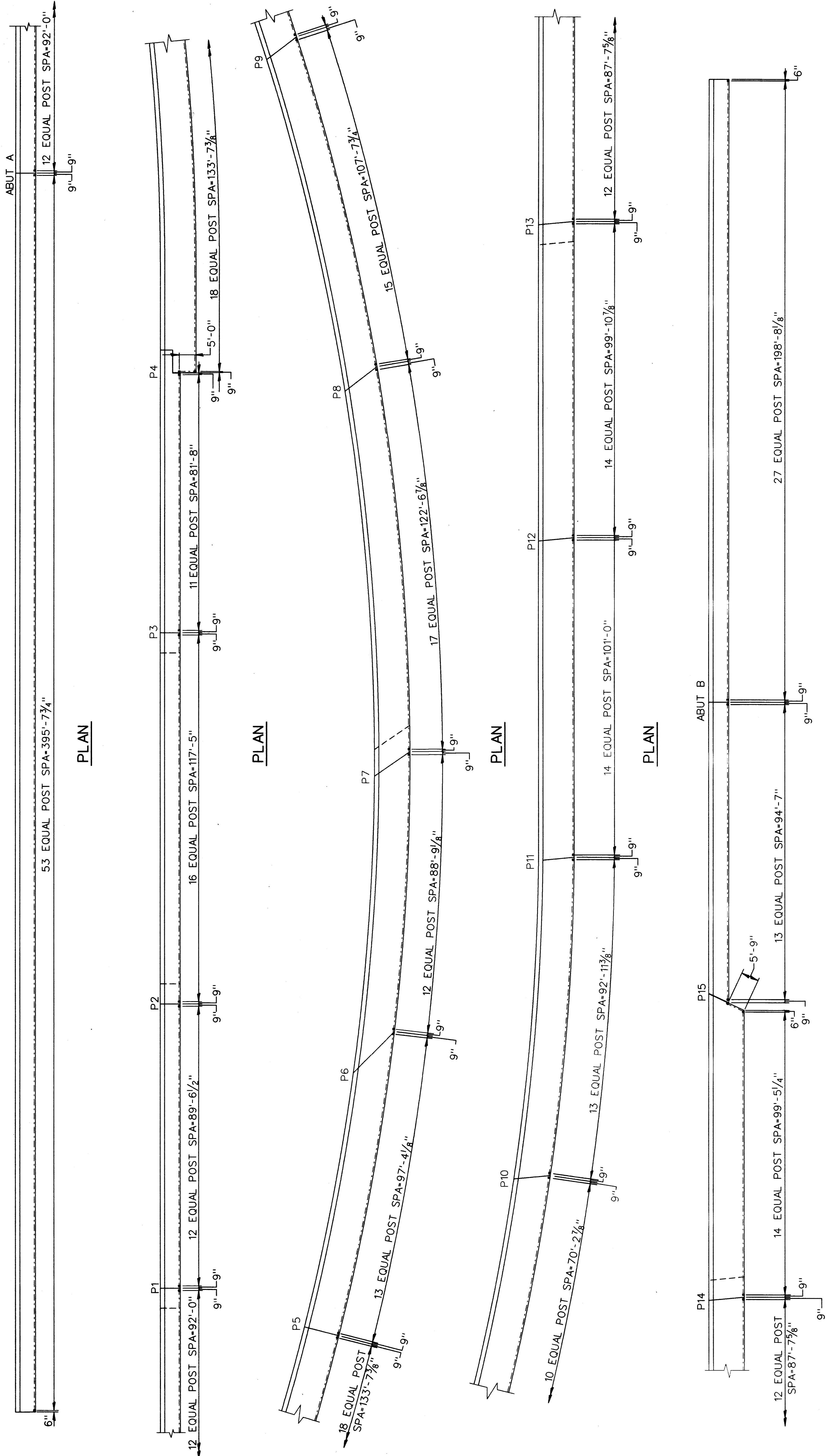
NO.	REVISIONS	DATE	BY
	DESCRIPTION		

DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
APPROVED BY	NAME	DATE

SHEET 52 OF 57

B01 of 82-22-48

CONTROL SECTION B01 OF 822248 JOB NO. 53 SH. NO. 53



**OPEN DECK JOINTS DIMENSIONS
END OF SIDEWALK**

LOCATION	LOCATION	LOCATION
PIER 1 1/2"	PIER 6 2 1/2"	PIER 11 1 1/2"
PIER 2 1 1/2"	PIER 7 1 3/4"	PIER 12 1 1/2"
PIER 3 1/2"	PIER 8 1 1/4"	PIER 13 1 1/2"
PIER 4 1/2"	PIER 9 1 5/8"	PIER 14 1 1/2"
PIER 5 1/2"	PIER 10 1/2"	

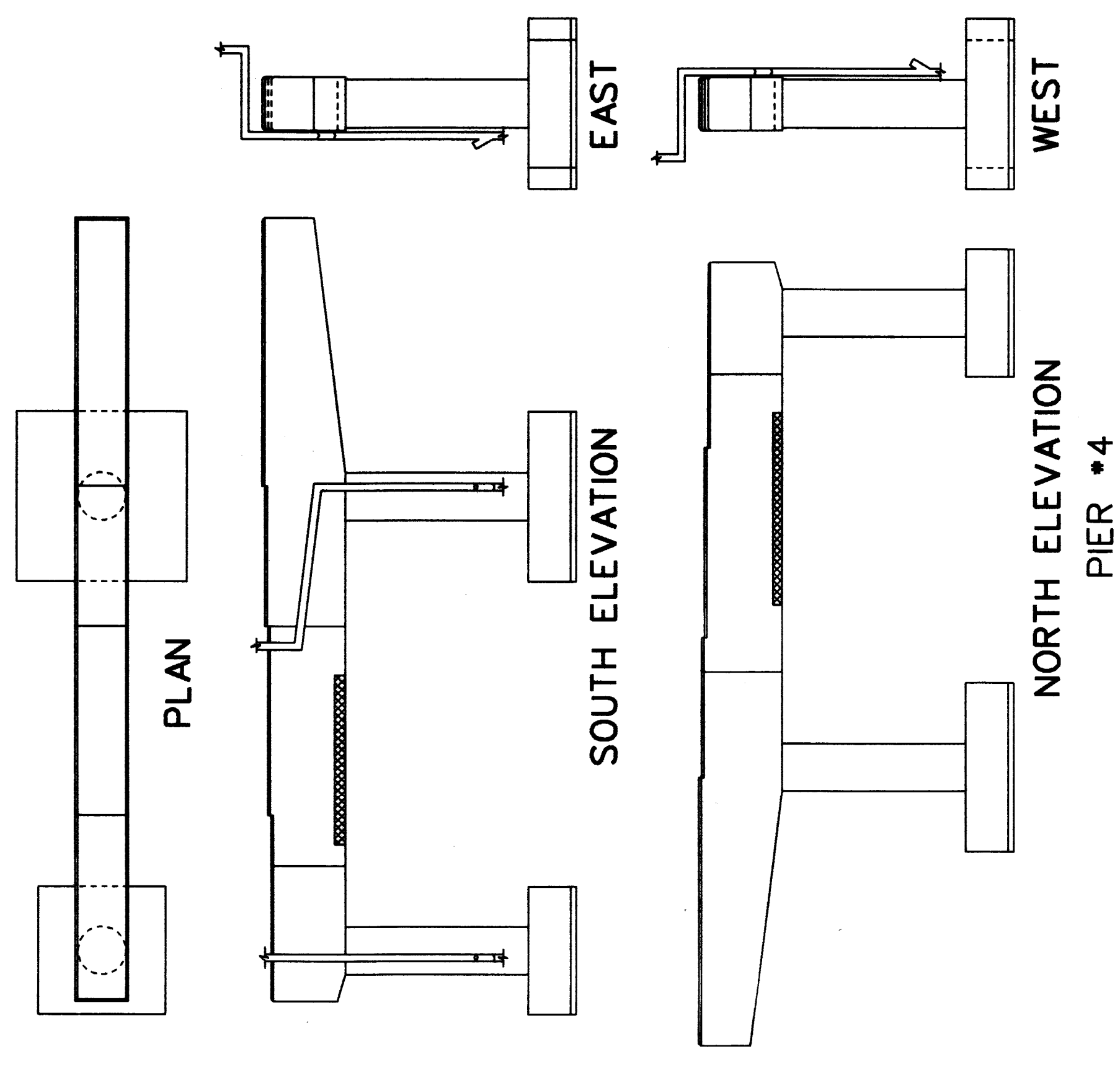
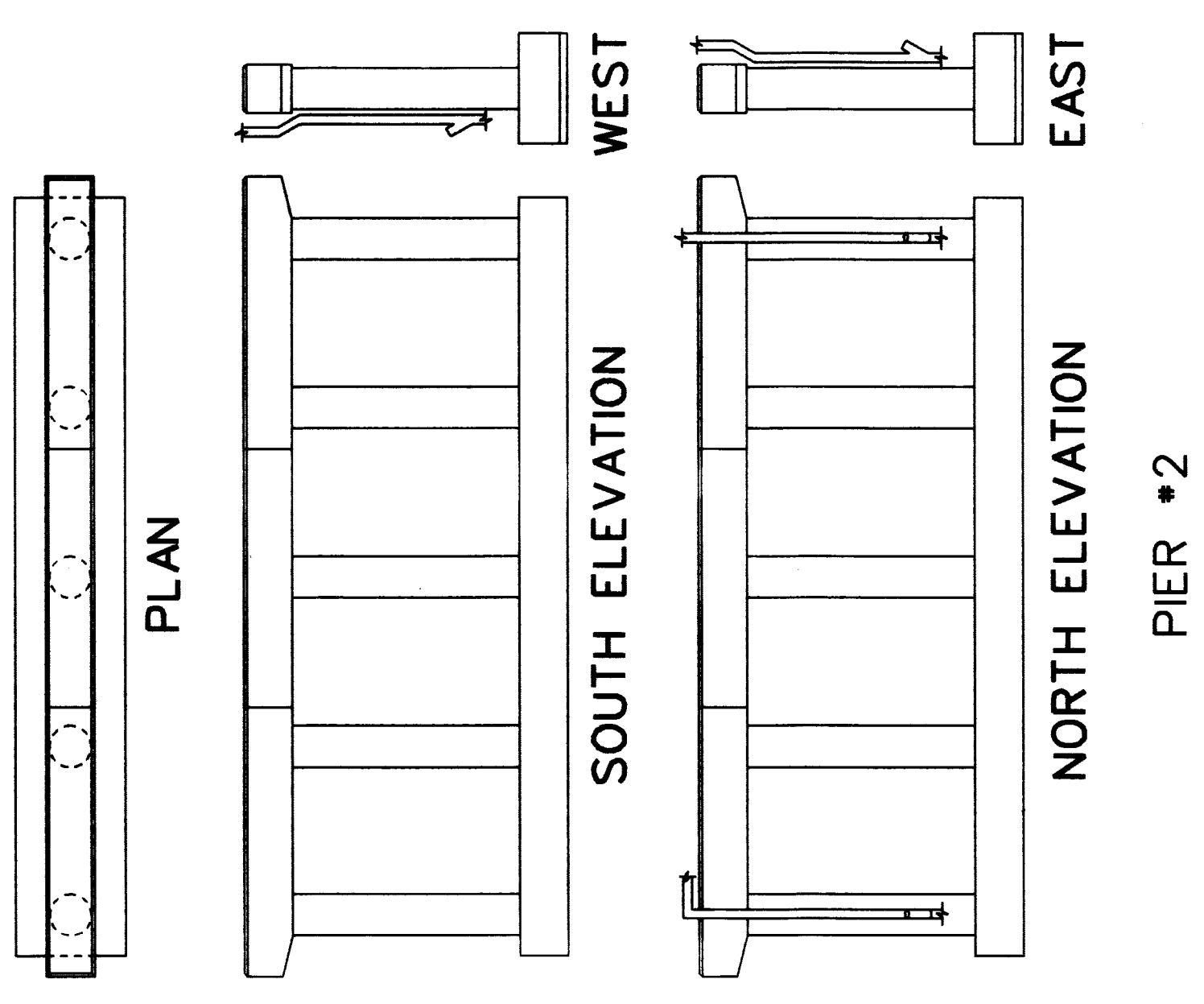
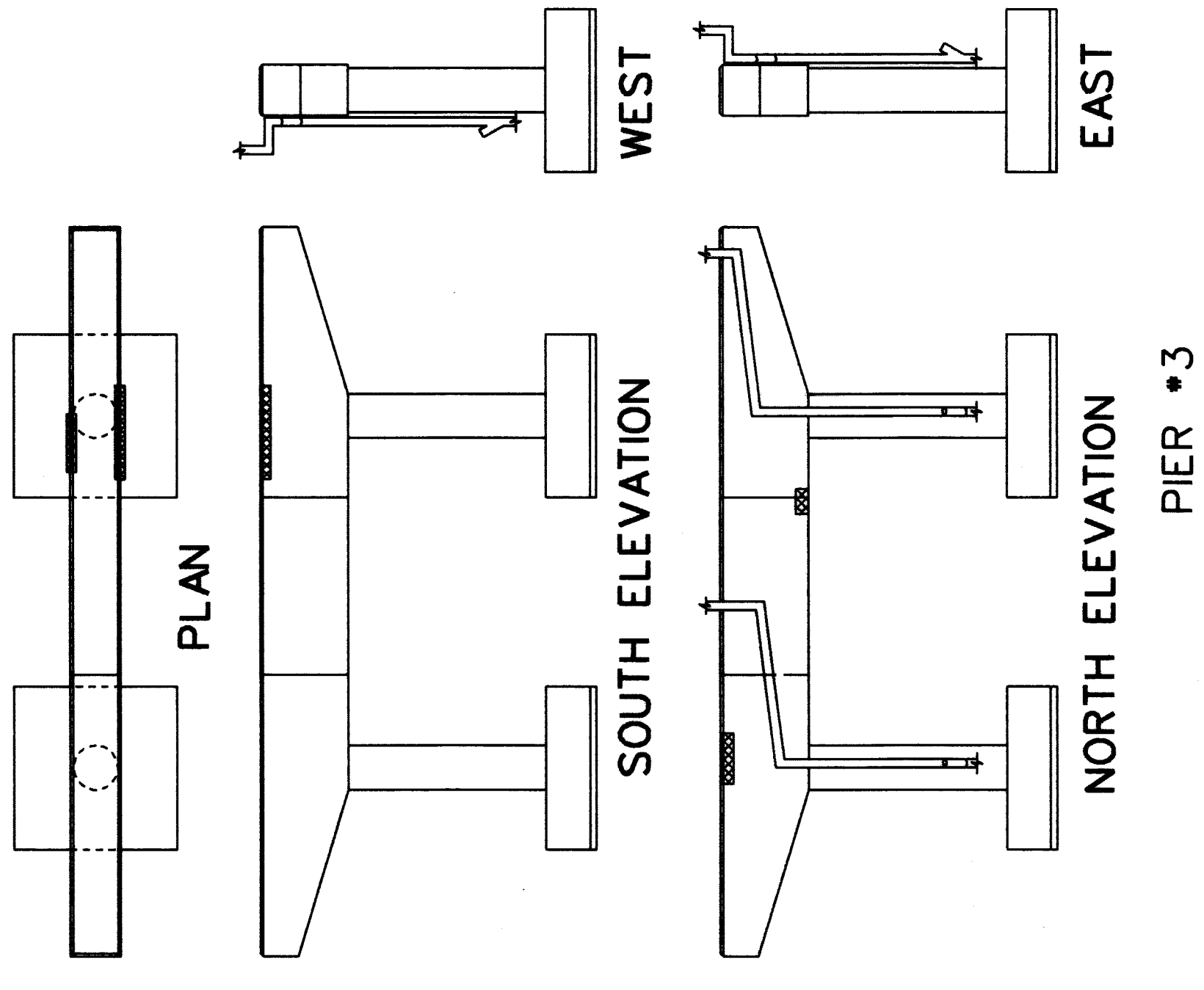
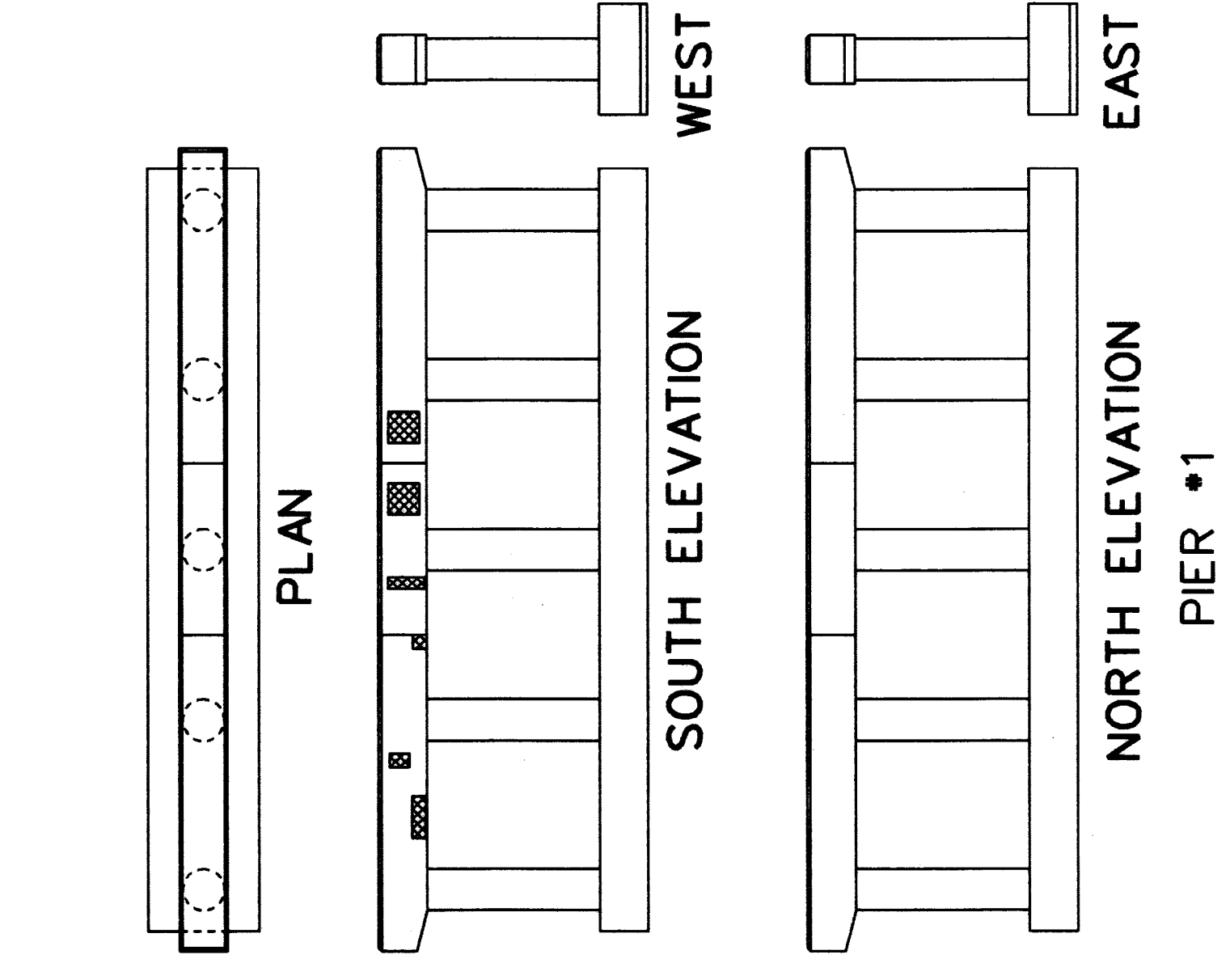
NOTE:
WORK THIS SHEET WITH SHEET 52.

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MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
PEDESTRIAN FENCING DETAILS

NO.	DESCRIPTION	REVISIONS	DATE	BY

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SQUAD BOSS NAME PJA DATE 3/04
DRAWN BY NAME JAO DATE 3/04
CHECKED BY NAME RAW DATE 3/04
SHEET 53 OF 57
B01 of 82-22-48



NOTES
 CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

MISCELLANEOUS QUANTITIES	
ITEM	UNIT AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT 36
PENETRATING WATER REPELLENT TREATMENT	SYD 113
REPAIRING STRUCTURAL CRACKS	LFT 0
FORMING FOR PATCHES	SFT 142
HAND CHIPPING - OTHER THAN DECK	CFT 36

LEGEND
 - DENOTES CRACK SEALING
 - DENOTES CONCRETE REPAIR
 - DENOTES ROCK POCKETS

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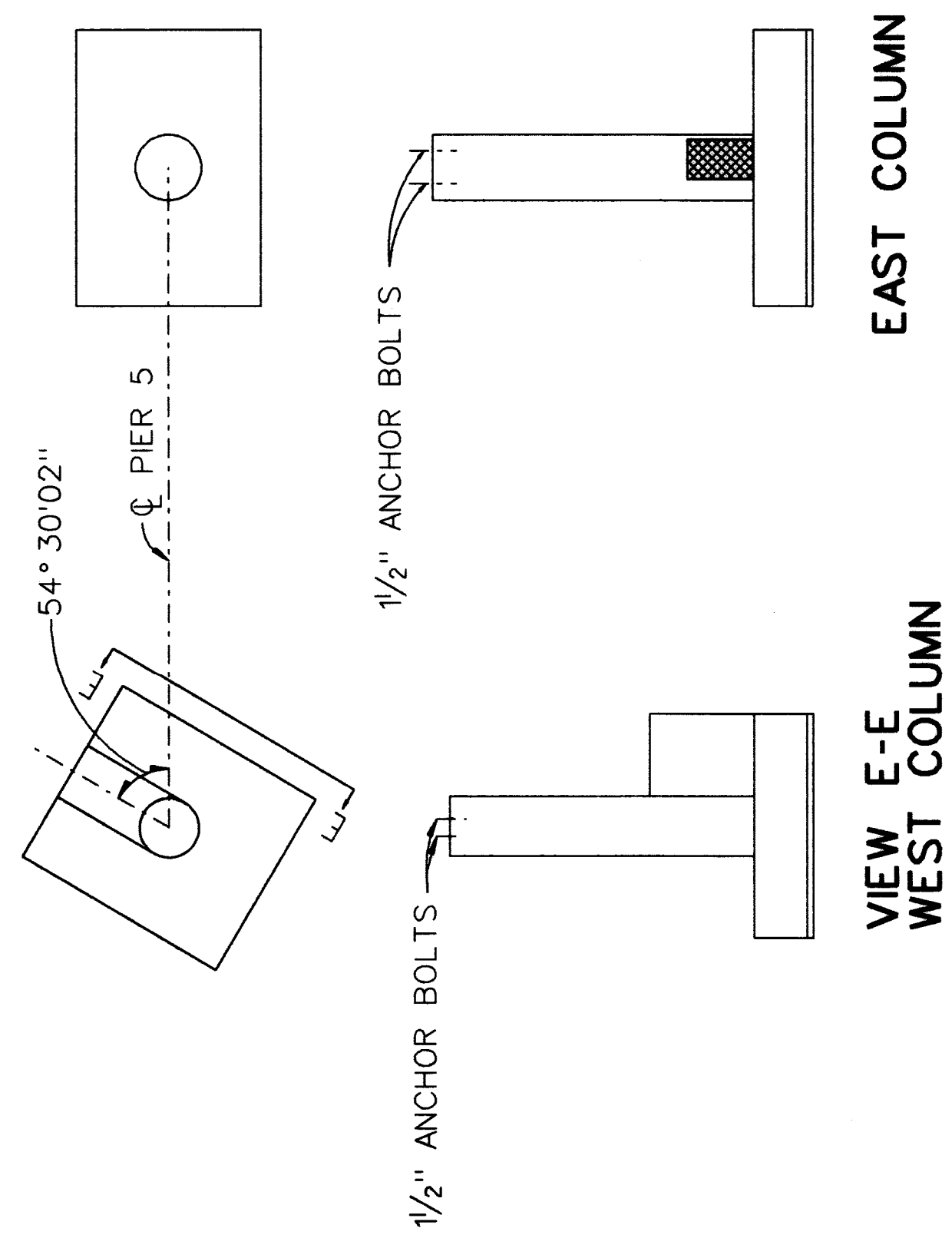
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUBSTRUCTURE REPAIRS

NO.	DESCRIPTION	REVISIONS	DATE	BY

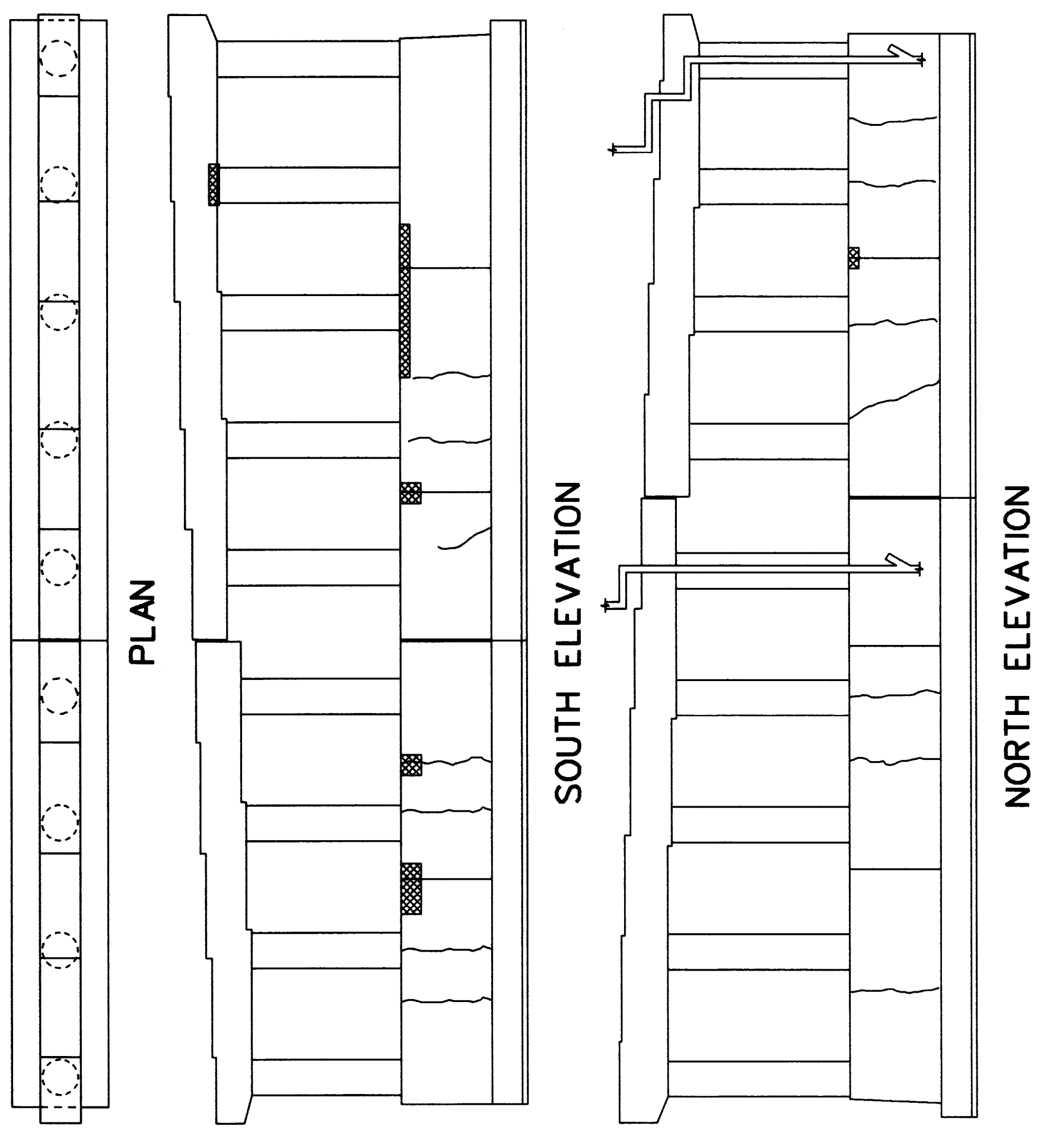
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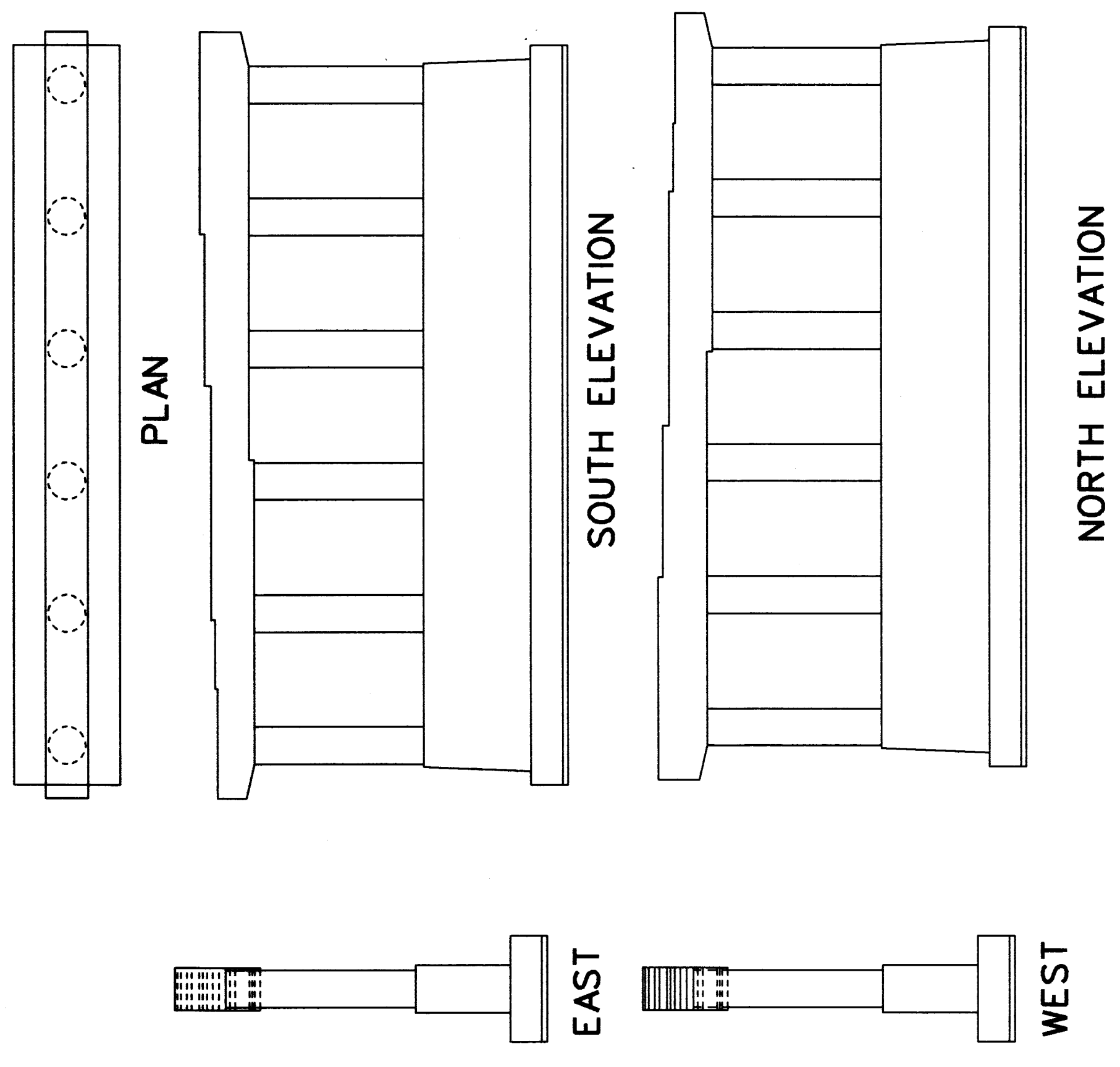
SHEET 54 OF 57
 B01 of 82-22-48



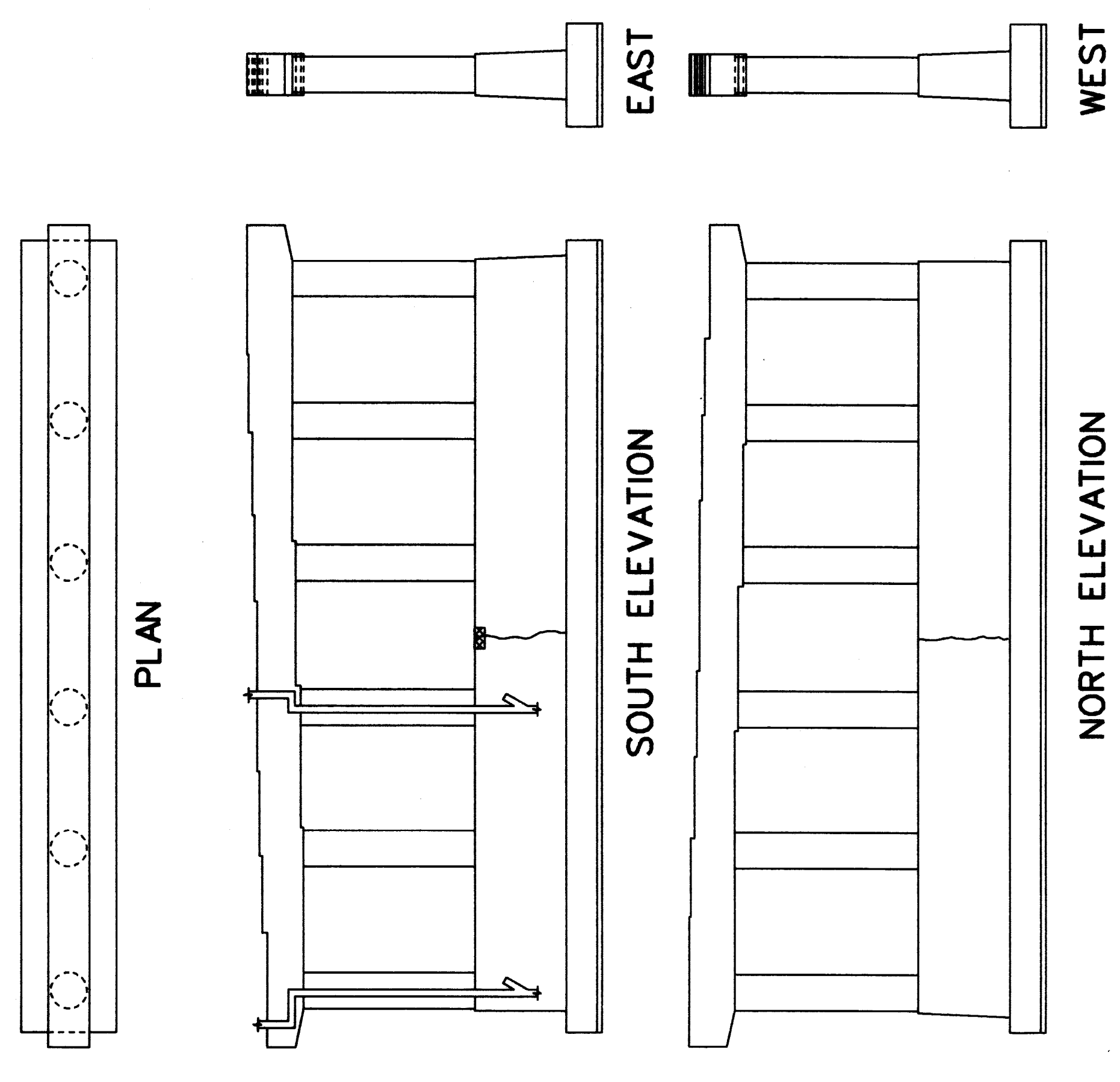
PIER #5



PIER #6



PIER #8



PIER #7

NOTES
 CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

MISCELLANEOUS QUANTITIES	
ITEM	UNIT AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT 10
PENETRATING WATER REPELLENT TREATMENT	SYD 120
REPAIRING STRUCTURAL CRACKS FORMING FOR PATCHES	LFT 98
HAND CHIPPING - OTHER THAN DECK	CFT 10

LEGEND
 γ - DENOTES CRACK SEALING
 [Hatched Box] - DENOTES CONCRETE REPAIR
 [Dotted Box] - DENOTES ROCK POCKETS

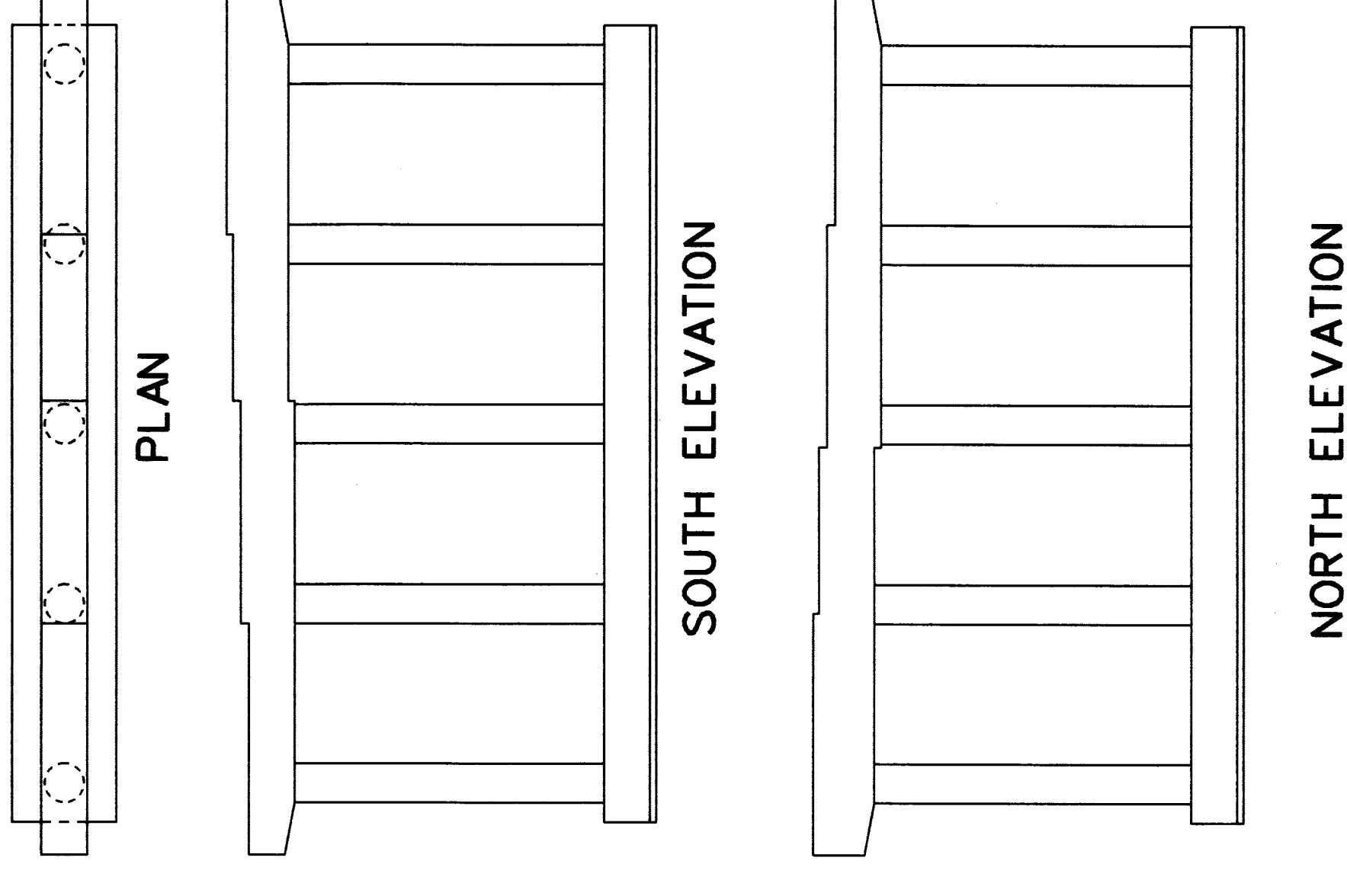
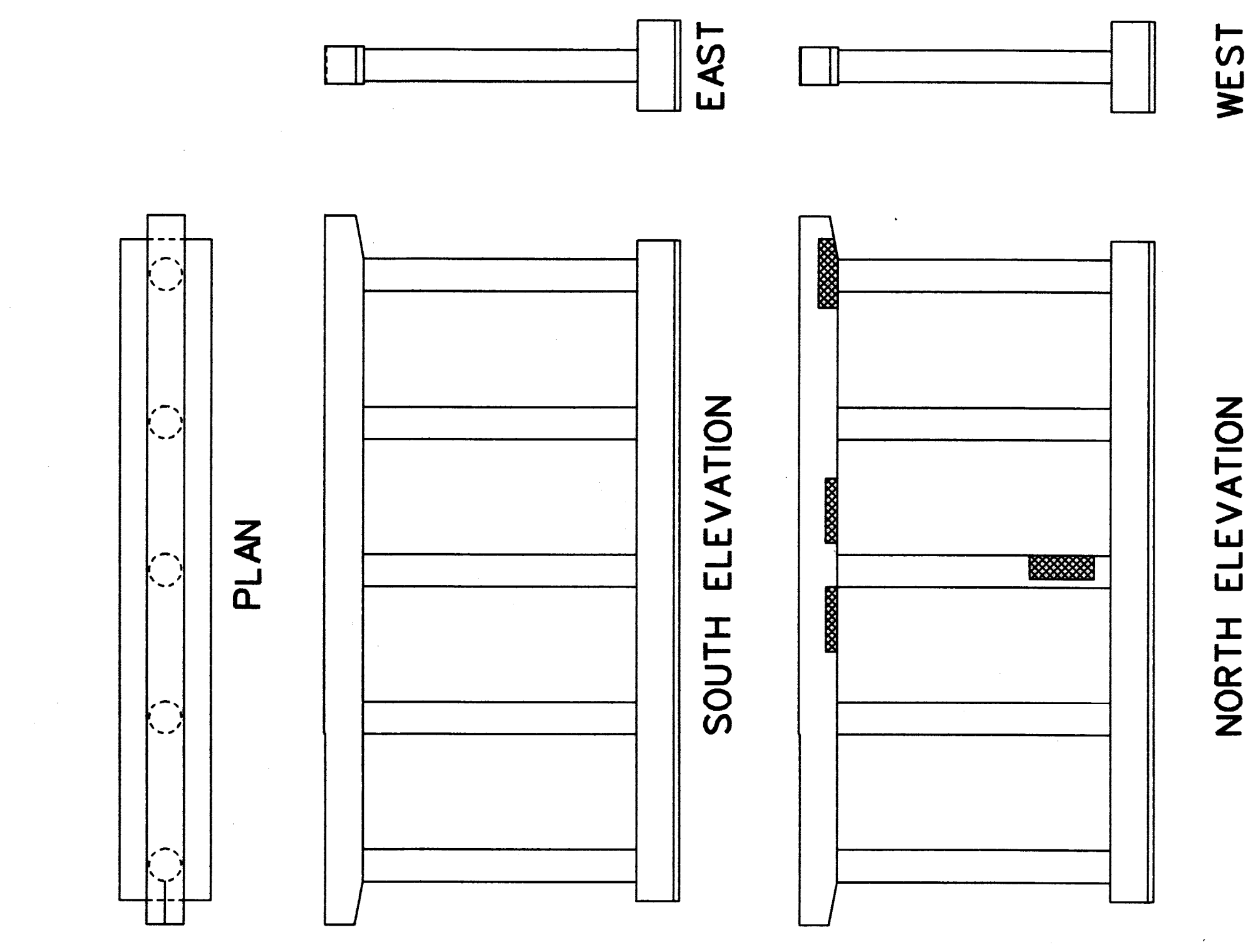
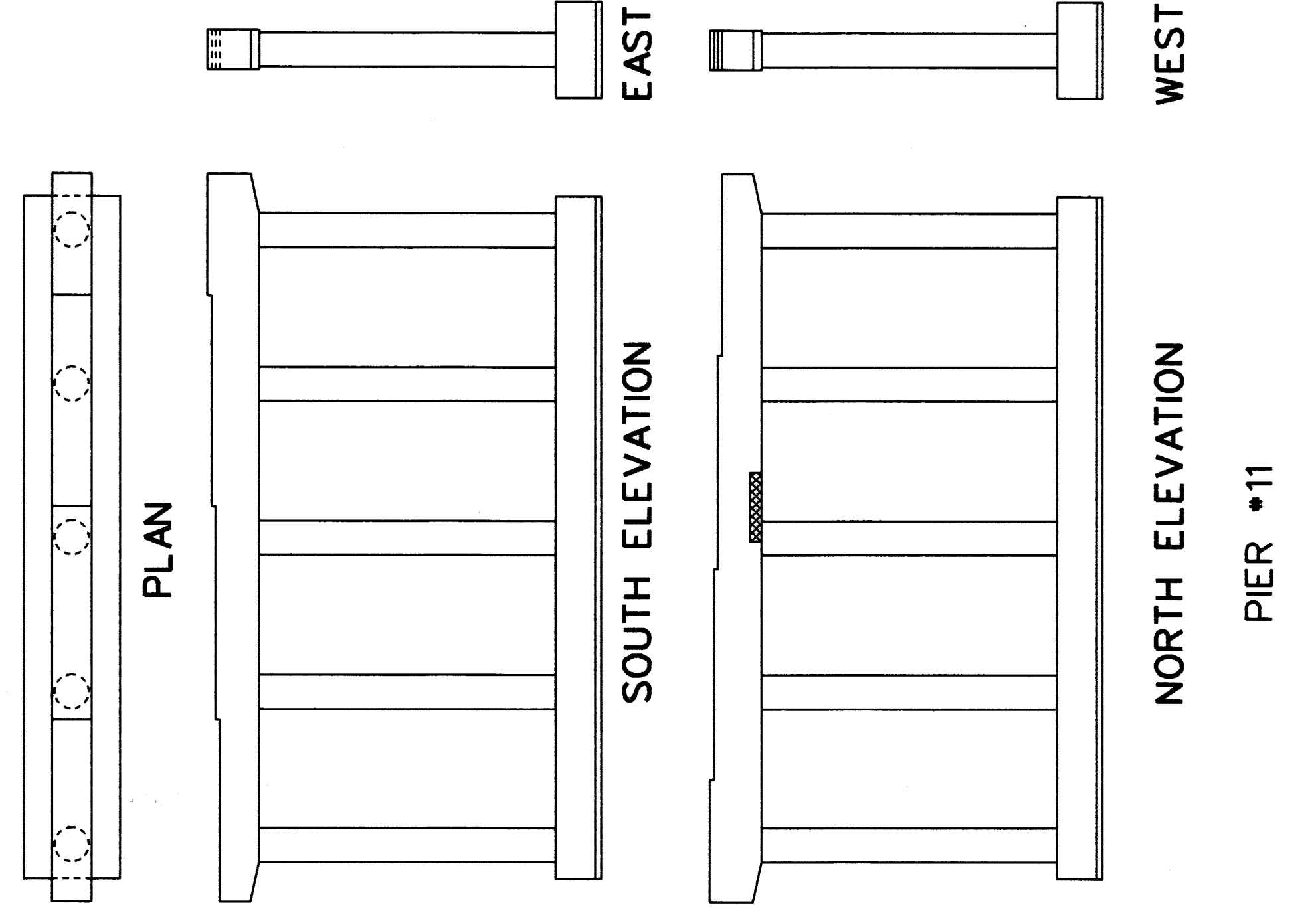
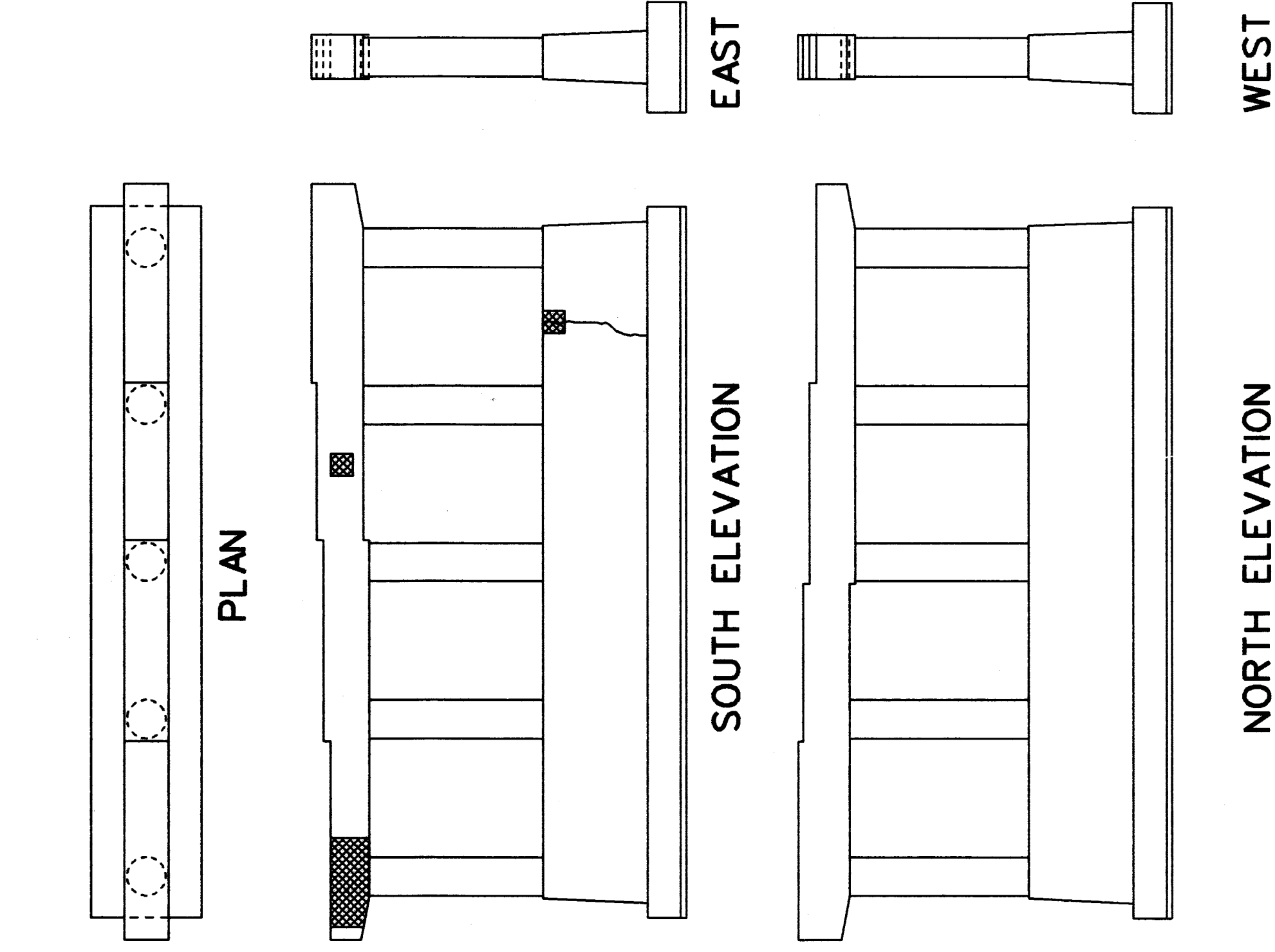
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
SUBSTRUCTURE REPAIRS

NO.	DESCRIPTION	REVISIONS	
		DATE	BY

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE

SHEET 55 OF 57
B01 of 82-22-48



MISCELLANEOUS QUANTITIES	
ITEM	UNIT AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT 26
PENETRATING WATER REPELLENT TREATMENT	SYD 106
REPAIRING STRUCTURAL CRACKS	LFT 8
FORMING FOR PATCHES	SFT 102
HAND CHIPPING - OTHER THAN DECK	CFT 26

NOTES
 CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

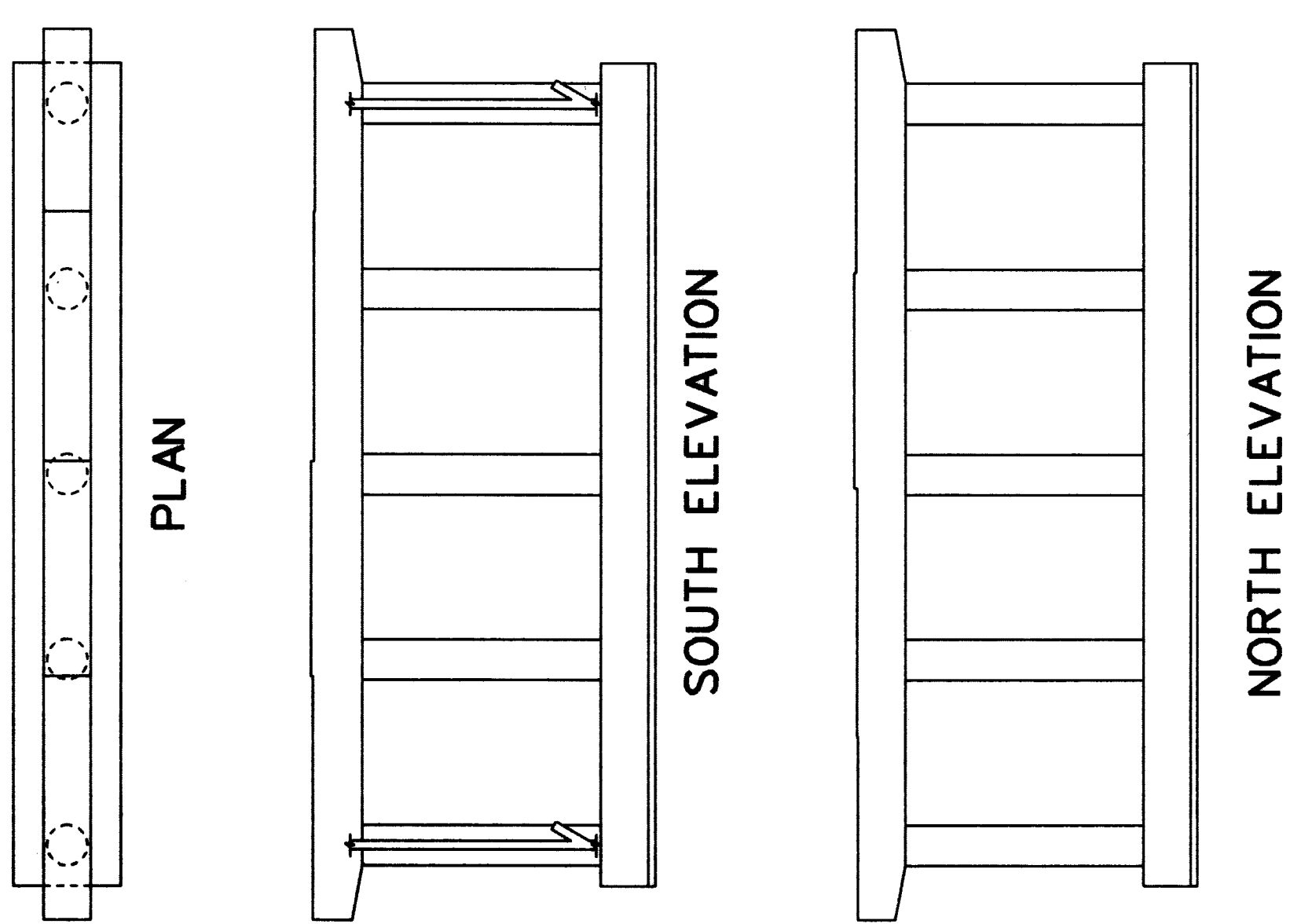
- LEGEND**
- ∩ - DENOTES CRACK SEALING
 - ▨ - DENOTES CONCRETE REPAIR
 - ⊛ - DENOTES ROCK POCKETS

THE CITY OF DETROIT
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUBSTRUCTURE REPAIRS

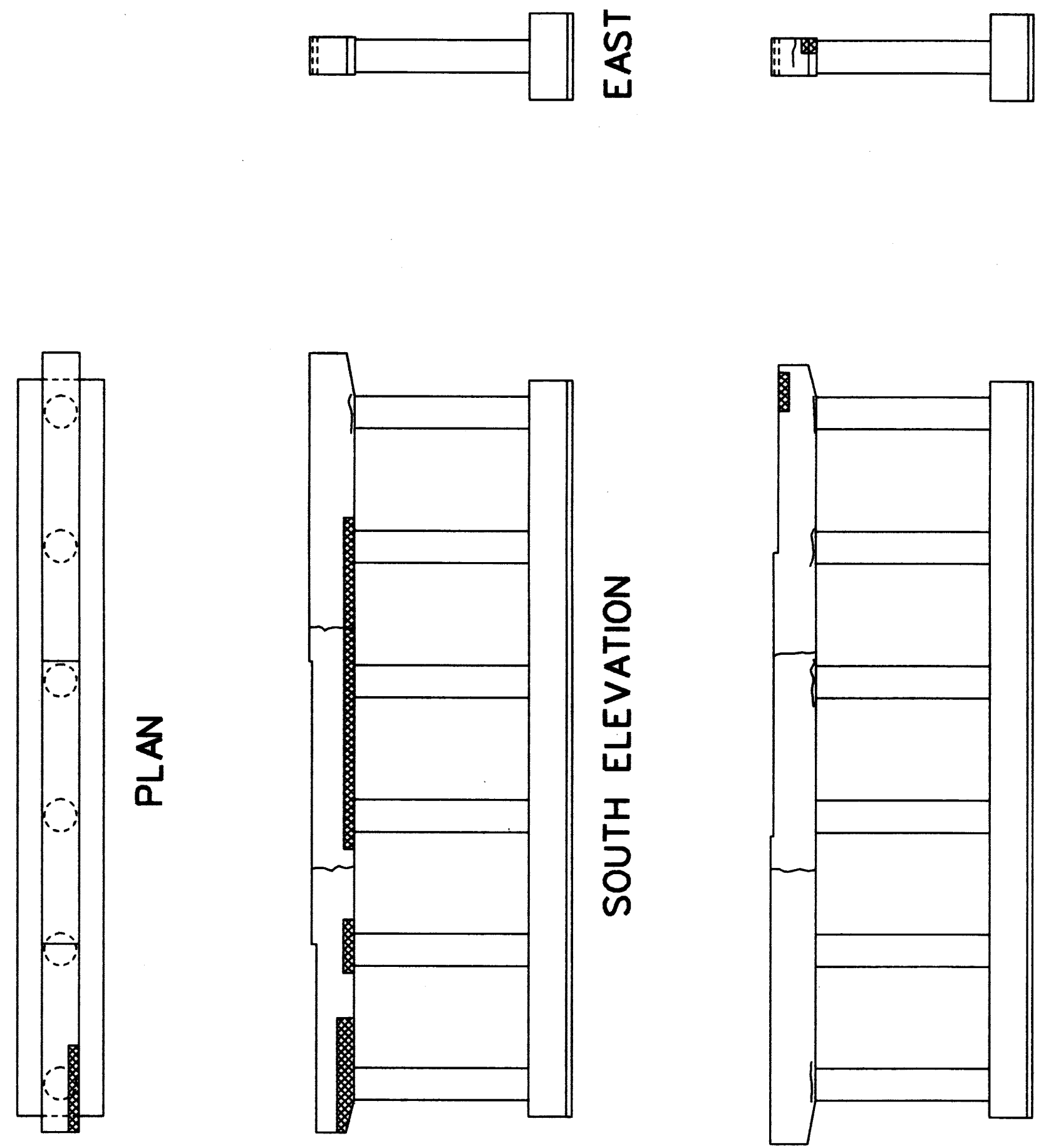
DESIGNED BY	NAME	DATE
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DRAWN BY	NAME	DATE
SCALE	SHEET	356 OF 571

B01 of 82-22-48

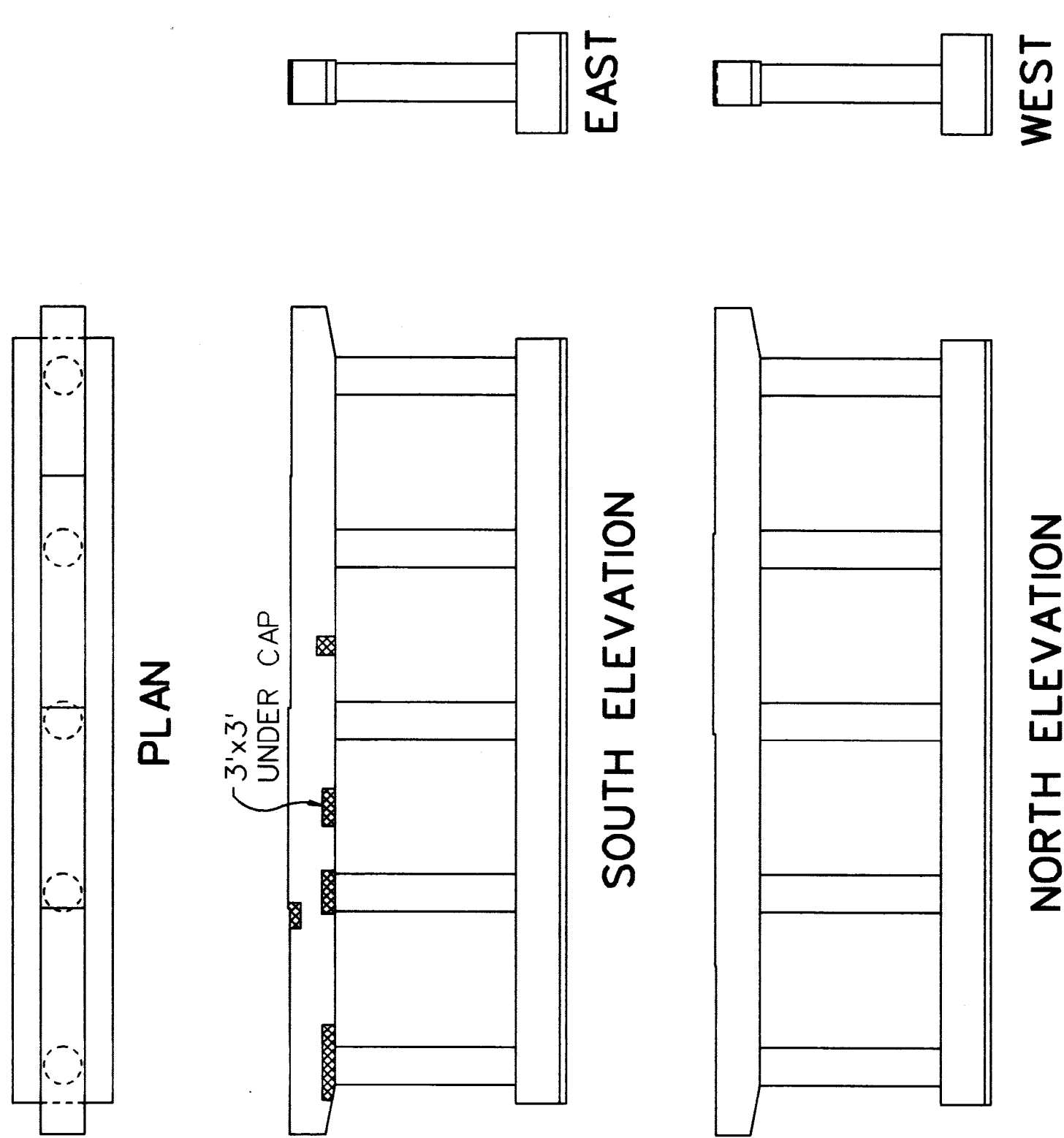
NO.	DESCRIPTION	DATE	BY



PIER #13



PIER #15



PIER #14

MISCELLANEOUS QUANTITIES	
ITEM	UNIT AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT 20
PENETRATING WATER REPELLENT TREATMENT	SYD 80
REPAIRING STRUCTURAL CRACKS	LFT 0
FORMING FOR PATCHES	SFT 79
HAND CHIPPING - OTHER THAN DECK	CFT 20

LEGEND

- ∩ - DENOTES CRACK SEALING
- - DENOTES CONCRETE REPAIR
- ⋆⋆ - DENOTES ROCK POCKETS

NOTES

CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

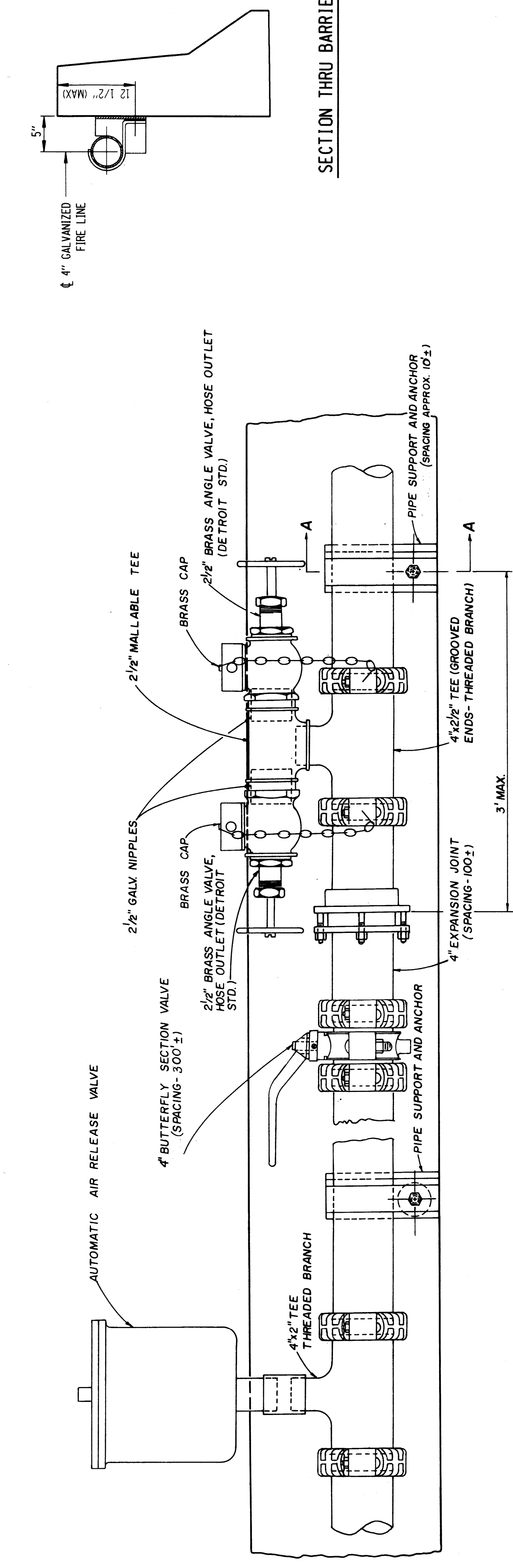
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
SUBSTRUCTURE REPAIRS

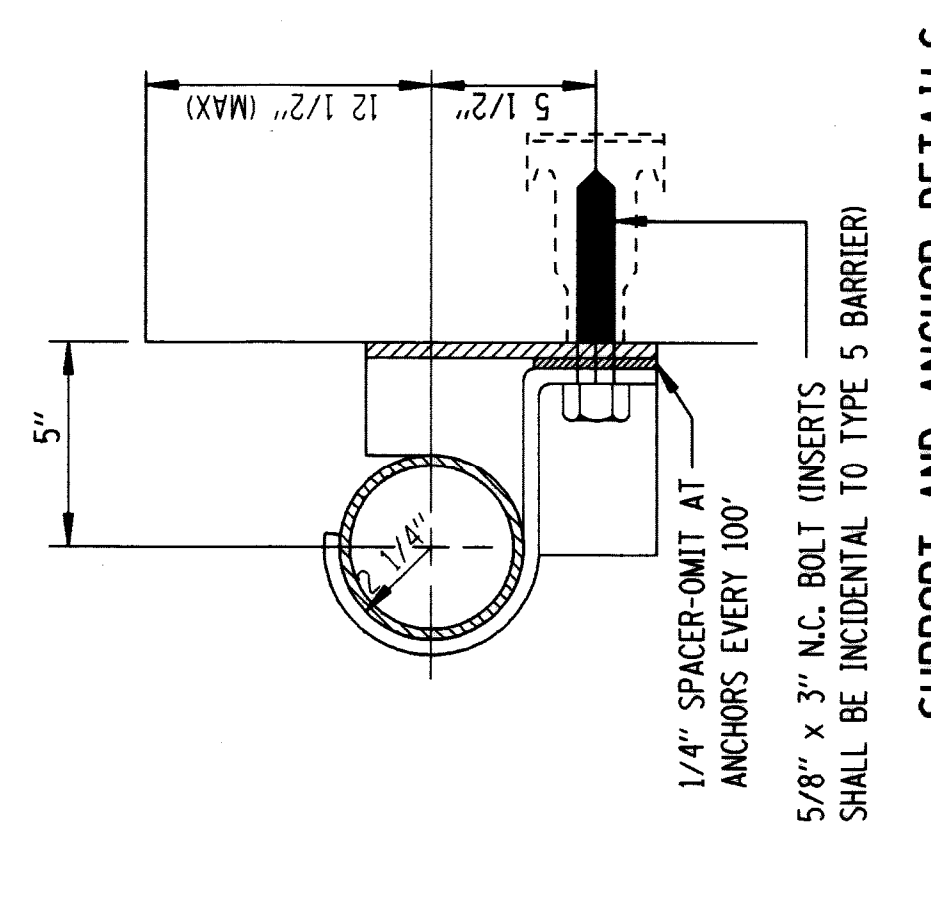
DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	OF	

B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY

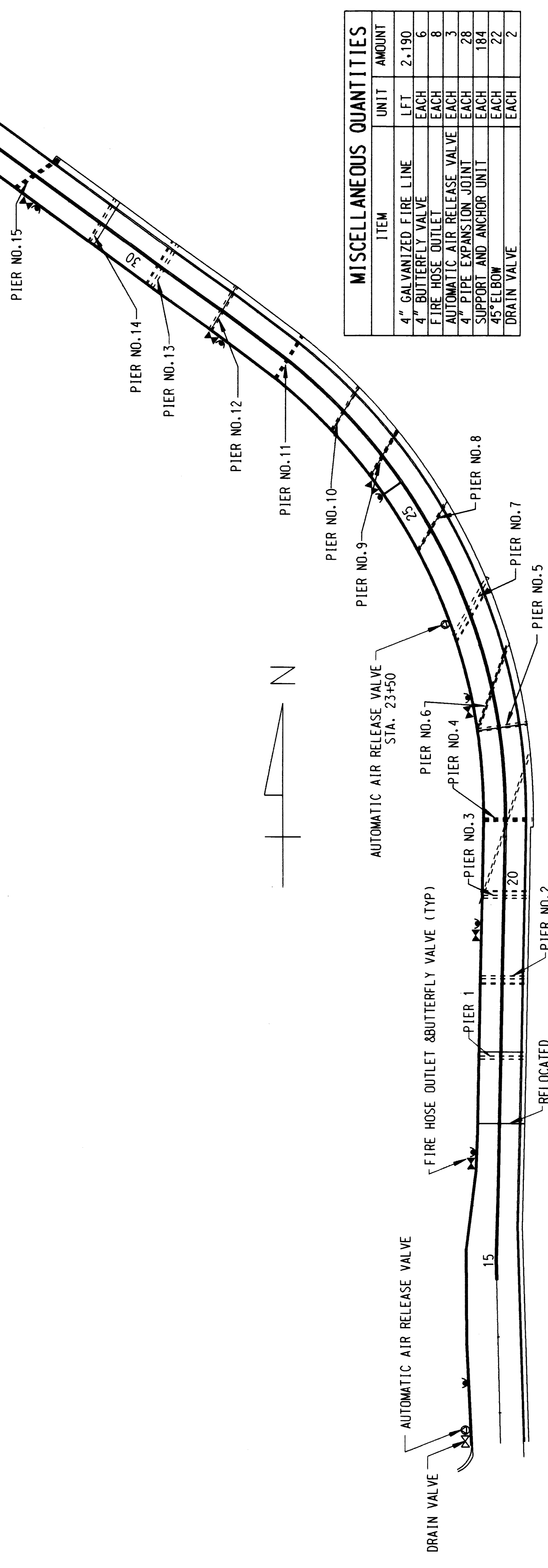


SECTION THRU BARRIER



SUPPORT AND ANCHOR DETAILS

AIR VENT, SUPPORT, VALVE, EXPANSION JOINT, FIRE HOSE OUTLET, AND ANCHOR LAYOUT DETAIL



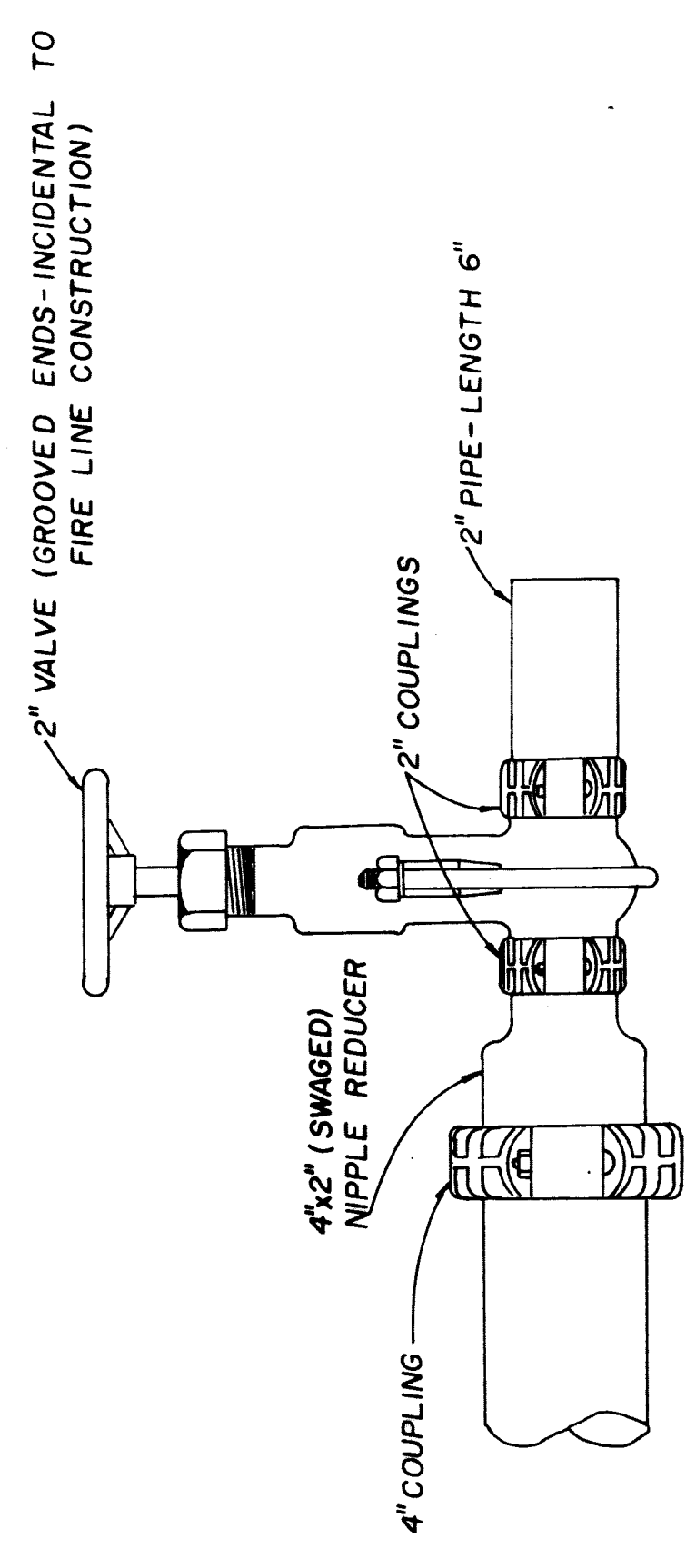
PLAN

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
4" GALVANIZED FIRE LINE	LFT	2,190
4" BUTTERFLY VALVE	EACH	6
FIRE HOSE OUTLET	EACH	8
AUTOMATIC AIR RELEASE VALVE	EACH	3
4" PIPE EXPANSION JOINT	EACH	28
SUPPORT AND ANCHOR UNIT	EACH	184
45° ELBOW	EACH	22
DRAIN VALVE	EACH	2

THE ITEMS IN THE MISCELLANEOUS QUANTITIES ARE LISTED FOR INFORMATION ONLY AND ARE INCLUDED IN THE INSTALLATION OF THE "DRY FIRE PROTECTION LINE".

PROPOSED FIRE HOSE OUTLET LOCATION TABLE

STATION	FIRE HOSE OUTLET NO.
13+40	1
16+40	2
19+40	3
22+40	4
25+40	5
28+40	6
31+40	7
34+40	8



DRAIN CONNECTION DETAIL

LEGEND

- ⊗ DRAIN VALVE
- ⊗ AUTOMATIC AIR RELEASE VALVE
- ⊗ FIRE HOSE OUTLET
- ⊗ BUTTERFLY VALVE

THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
DRY FIRE PROTECTION LINE

DESIGNED BY	NAME	BAK	DATE	6/94
CHECKED BY	NAME	RAJ	DATE	6/94
SHEET	57A	OF	57	

B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY

Baker
WTA
BAKER AND ASSOCIATES
WALTER TEJMER AND ASSOCIATES, INC.
A JOINT ASSOCIATION
18431 JAMES COUZENS DETROIT, MI 48235