

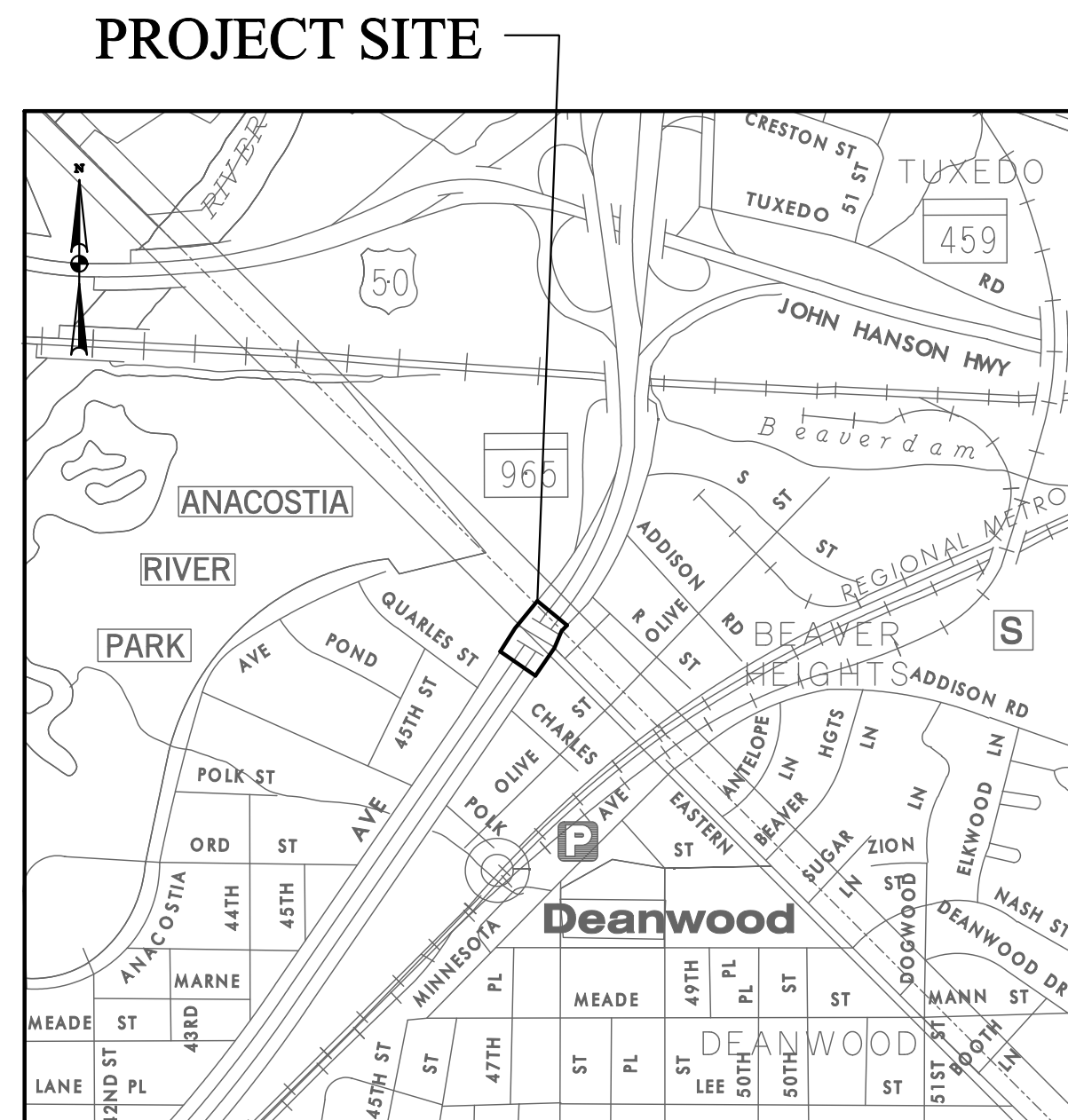
DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED

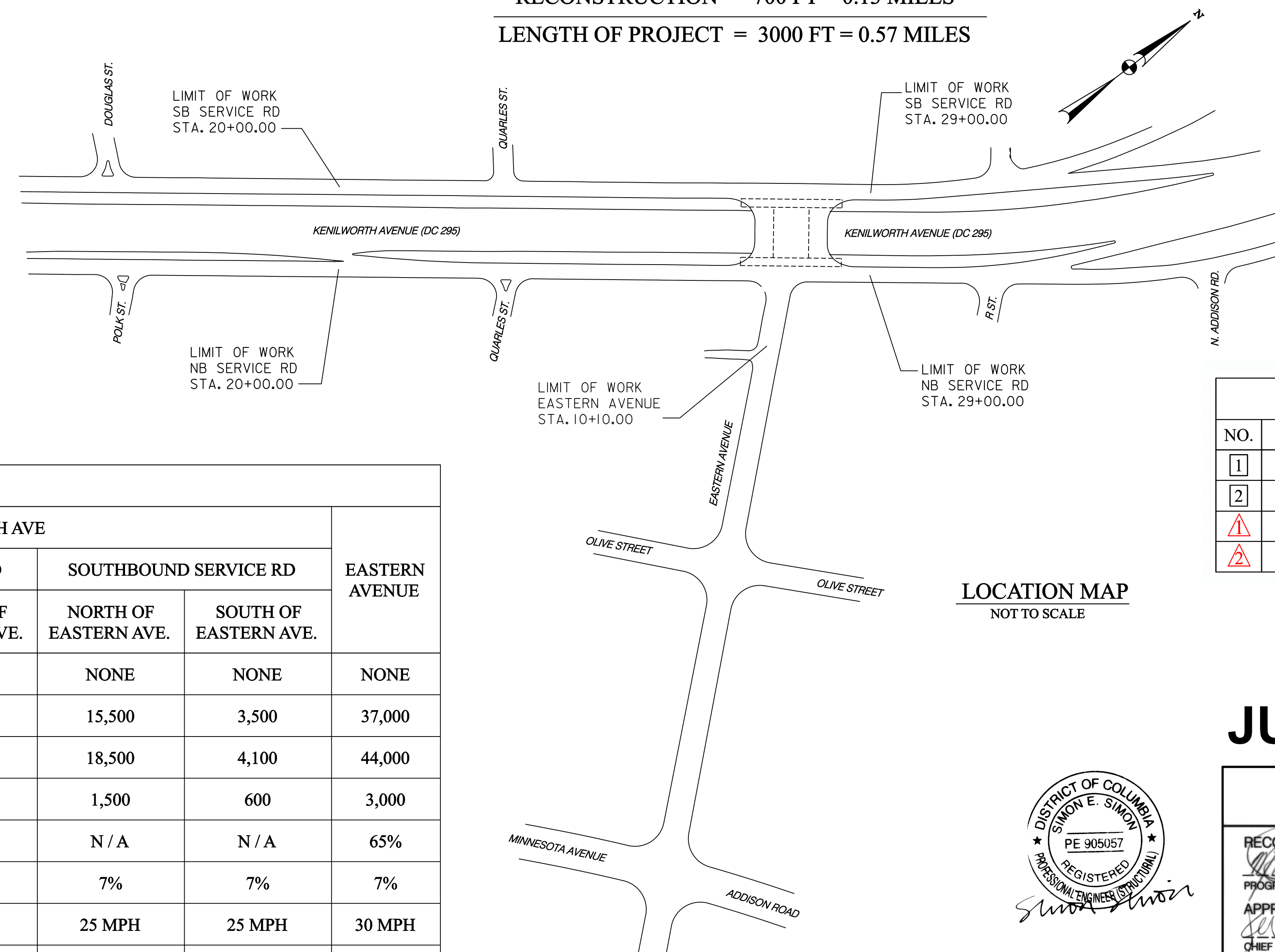
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.

FEDERAL AID PROJECT NOS. BRIDGE - ARA-3207(003)
ROADWAY - ARA-3207(004)

RECONSTRUCTION = 700 FT = 0.13 MILES
LENGTH OF PROJECT = 3000 FT = 0.57 MILES



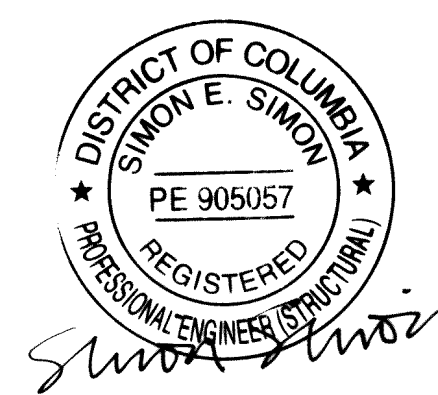
KEY MAP



LOCATION MAP
NOT TO SCALE

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	07/10/2009
2	ADDENDUM NO. 2	07/15/2009
⚠ 1	REVISION NO. 1	04/16/2010
⚠ 2	REVISION NO. 2	06/07/2010

TRAFFIC DATA						
	KENILWORTH AVE					EASTERN AVENUE
	MAINLINE	NORTHBOUND SERVICE RD		SOUTHBOUND SERVICE RD		
		NORTH OF EASTERN AVE.	SOUTH OF EASTERN AVE.	NORTH OF EASTERN AVE.	SOUTH OF EASTERN AVE.	
CONTROL OF ACCESS	FULL	NONE	NONE	NONE	NONE	NONE
ADT (2009)	155,000	18,500	7,600	15,500	3,500	37,000
ADT (2029)	185,000	22,000	9,000	18,500	4,100	44,000
DHV (2029)	12,500	1,400	800	1,500	600	3,000
DISTRIBUTION	60%	N / A	N / A	N / A	N / A	65%
TRUCKS	7%	7%	7%	7%	7%	7%
POSTED SPEED	45 MPH	25 MPH	25 MPH	25 MPH	25 MPH	30 MPH
DESIGN SPEED	60 MPH	40 MPH	40 MPH	40 MPH	40 MPH	35 MPH
FUNCTIONAL CLASSIFICATION =	URBAN EXPRESSWAY	LOCAL/MINOR ARTERIAL	LOCAL/MINOR ARTERIAL	LOCAL/MINOR ARTERIAL	LOCAL/MINOR ARTERIAL	MINOR ARTERIAL



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JUNE 3, 2009

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION RECOMMENDED FOR APPROVAL: <i>Michael J. O'Mara</i> PROGRAM MANAGER IPMA / CHIEF, IPMA SUPPORT DIVISION APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER TRANSPORTATION POLICY AND PLANNING ADMINISTRATION DATE: MAY - 6 2009	DEPT. OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED: _____ DIVISION ADMINISTRATOR DATE: _____
--	--

DWG. NO.	SHEET NO.	DESCRIPTION
--	1	TITLE SHEET - RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.
IN-01	2	INDEX OF DRAWINGS
QN-01	3	SUMMARY OF QUANTITIES - 1
QN-02	4	SUMMARY OF QUANTITIES - 2
SYM-1	5	STANDARD SYMBOLS AND ABBREVIATIONS
GS-01	6	GEOMETRIC LAYOUT
EX-01	7	EXISTING CONDITIONS
TS-01	8	EXISTING TYPICAL SECTIONS
TS-02	9	PROPOSED TYPICAL SECTIONS
PS-01	10	ROADWAY PLAN
PS-02	11	ROADWAY PLAN
PS-03	12	ROADWAY PLAN
PS-04	13	TEMPORARY ROADWAY PLAN
PS-05	14	TEMPORARY ROADWAY PLAN
PS-06	15	TEMPORARY ROADWAY PLAN
PS-07	16	TEMPORARY ROADWAY PLAN
PR-01	17	ROADWAY PROFILES
PR-02	18	ROADWAY PROFILES
PR-03	19	ROADWAY PROFILES
PR-04	20	TOP OF CURB PROFILES NORTHBOUND SERVICE ROAD
PR-05	21	TOP OF CURB PROFILES SOUTHBOUND SERVICE ROAD
DE-01	22	MISCELLANEOUS DETAILS
DE-02	23	MISCELLANEOUS DETAILS
DE-03	24	MISCELLANEOUS DETAILS
DE-04	25	MISCELLANEOUS DETAILS
CS-01	26	CROSS SECTIONS NORTHBOUND SERVICE ROAD
CS-02	27	CROSS SECTIONS NORTHBOUND SERVICE ROAD
CS-03	28	CROSS SECTIONS SOUTHBOUND SERVICE ROAD
CS-04	29	CROSS SECTIONS SOUTHBOUND SERVICE ROAD
SN-01	30	SIGNING AND PAVEMENT MARKING PLAN
SN-02	31	SIGNING AND PAVEMENT MARKING PLAN
SN-03	32	SIGNING AND PAVEMENT MARKING PLAN
SN-04	33	SIGNING AND PAVEMENT MARKING PLAN
SN-05	34	SIGNING AND PAVEMENT MARKING PLAN
SN-06	35	CANTILEVER SIGN STRUCTURE C-I DETAILS AND NOTES
MT 01	36	MAINTENANCE OF TRAFFIC GENERAL NOTES
MT 02	37	MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION
MT 03	38	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
MT 04	39	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
MT 05	40	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
MT 06	41	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
MT 07	42	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 08	43	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 09	44	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 10	45	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 11	46	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 12	47	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 13	48	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 14	49	MAINTENANCE OF TRAFFIC PLAN PHASE IA
MT 15	50	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 15A	50A	MAINTENANCE OF TRAFFIC SPECIAL SIGNING DETAILS
MT 16	51	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 17	52	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 18	53	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 18A	54	MAINTENANCE OF TRAFFIC SPECIAL SIGNING DETAILS
MT 19	55	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 20	56	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 21	57	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 22	58	MAINTENANCE OF TRAFFIC PLAN PHASE IB
MT 23	59	MAINTENANCE OF TRAFFIC PLAN DETOUR PLAN FOR NANNIE HELEN BURROUGHS AVE PHASES IB-6
MT 24	60	MAINTENANCE OF TRAFFIC PLAN TRUCK DETOUR FOR TRAFFIC TO EASTERN AVENUE PHASES IB-3 AND 6
MT 25	61	MAINTENANCE OF TRAFFIC PLAN DETOUR PLAN FOR TRAFFIC TO KENILWORTH AVENUE PHASES IB-6
MT 26	62	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 27	63	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 28	64	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 29	65	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 30	66	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 31	67	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 32	68	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 33	69	MAINTENANCE OF TRAFFIC PLAN PHASE 2A
MT 34	70	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 35	71	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 36	72	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 37	73	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 38	74	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 39	75	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 40	76	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 41	77	MAINTENANCE OF TRAFFIC PLAN PHASE 2B
MT 42	78	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 43	79	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 44	80	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 45	81	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 46	82	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 47	83	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 48	84	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 49	85	MAINTENANCE OF TRAFFIC PLAN PHASE 3
MT 49A	86	MAINTENANCE OF TRAFFIC PLAN SUB PHASE 3
MT 50	87	MAINTENANCE OF TRAFFIC PLAN PHASE 4

DWG. NO.	SHEET NO.	DESCRIPTION
MT 51	88	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 52	89	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 53	90	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 54	91	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 55	92	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 56	93	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 57	94	MAINTENANCE OF TRAFFIC PLAN PHASE 4
MT 58	95	MAINTENANCE OF TRAFFIC PLAN DETOUR PLAN FOR EASTERN AVENUE PHASES 4-5
MT 59	96	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 60	97	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 61	98	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 62	99	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 63	100	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 64	101	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 65	102	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 66	103	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 67	104	MAINTENANCE OF TRAFFIC PLAN PHASE 5
MT 68	105	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 69	106	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 70	107	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 71	108	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 72	109	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 73	110	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 74	111	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 75	112	MAINTENANCE OF TRAFFIC PLAN PHASE 6
MT 76	113	MAINTENANCE OF TRAFFIC PLAN PHASE 7
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S-2	115	GENERAL PLAN
S-3	116	SOUTH ELEVATION
S-4	117	ABUTMENT A PLAN AND ELEVATION
S-5	118	ABUTMENT B PLAN AND ELEVATION
S-6	119	ABUTMENT TYPICAL SECTIONS
S-7	120	EXISTING RETAINING WALL MODIFICATION DETAILS
S-8	121	ABUTMENT DETAILS
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S-11	124	PIER NO. I INTERIOR UNIT
S-12	125	PIER NO. I DETAILS
S-13	126	PIER NO. I BEAM SEAT DETAILS
S-14	127	PIER NO. I MEDIAN BARRIER AND ARCHITECTURAL TREATMENT DETAILS
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S-20	133	CAST-IN-PLACE SUPERSTRUCTURE DETAILS
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S-22	135	SUPERSTRUCTURE DETAILS - 2
S-23	136	FIXED BEARING DETAILS
S-24	137	EXPANSION BEARING DETAILS
S-25	138	APPROACH SLAB AND CCTV POLE PEDESTAL DETAILS
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DD 03	143	STORM DRAIN PROFILES
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DD 05	145	MANHOLE DETAILS FOR MH-8
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ES 02	147	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE IA SHEET 2 OF 4
ES 03	148	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE IA SHEET 3 OF 4
ES 04	149	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE IA SHEET 4 OF 4
ES 05	150	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE IB SHEET 1 OF 3
ES 06	151	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE IB SHEET 2 OF 3
ES 07	152	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE IB SHEET 3 OF 3
ES 08	153	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 2A SHEET 1 OF 1
ES 09	154	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 2B SHEET 1 OF 1
ES 10	155	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 3 SHEET 1 OF 3
ES 11	156	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 3 SHEET 2 OF 3
ES 12	157	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 3 SHEET 3 OF 3
ES 13	158	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 4 SHEET 1 OF 2
ES 14	159	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 4 SHEET 2 OF 2

DWG. NO.	SHEET NO.	DESCRIPTION
ES 15	160	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 5 SHEET 1 OF 2
ES 16	161	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 5 SHEET 2 OF 2
ES 17	162	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 6 SHEET 1 OF 3
ES 18	163	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 6 SHEET 2 OF 3
ES 19	164	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 6 SHEET 3 OF 3
ES 20	165	EROSION AND SEDIMENT CONTROL FOR MAINTENANCE OF TRAFFIC PHASE 7 SHEET 1 OF 1
ES 21	166	EROSION AND SEDIMENT CONTROL DETAILS AND NOTES SHEET 1 OF 5
ES 22	167	EROSION AND SEDIMENT CONTROL DETAILS AND NOTES SHEET 2 OF 5
ES 23	168	EROSION AND SEDIMENT CONTROL DETAILS AND NOTES SHEET 3 OF 5
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LD-1	172	LANDSCAPE PLAN
LD-2	173	LANDSCAPE PLAN
LD-3	174	LANDSCAPE PLAN
LT-01	175	LEGEND AND GENERAL NOTES (PART I)
LT-02	176	LIGHTING PLAN I (PART I)
LT-03	177	LIGHTING PLAN II (PART I)
LT-04	178	LIGHTING SCHEMATIC I (PART I)
LT-05	179	LIGHTING SCHEMATIC II (PART I)
LT-06	180	ELECTRICAL TABLES I (PART I)
LT-07	181	ELECTRICAL TABLES II (PART I)
LT-08	182	ELECTRICAL TABLES III (PART I)
LT-09	183	LIGHTING PLAN DETAILS I (PART I)
LT-10	184	LIGHTING PLAN DETAILS II (PART I)
LT-11	185	LIGHTING PLAN DETAILS III (PART I)
LT-12	186	LIGHTING PLAN DETAILS IV (PART I)
LT-13	187	WALL LIGHTING PLAN I (PART I)
LT-14	188	WALL LIGHTING PLAN II (PART I)
LT-15	189	WALL LIGHTING PLAN III (PART I)
LT-16	190	LIGHTING UNDERGROUND PLAN (PART I)
LT-17	191	CCTV PLAN DETAILS (TEMPORARY)
LT-18	192	CCTV POLE DETAILS (FINAL)
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SG-02	194	KENILWORTH AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION
SG-03	195	KENILWORTH AVENUE AND EASTERN AVENUE N.E. CABLE ROUTING SCHEMATIC
SG-04	196	KENILWORTH AVENUE AND EASTERN AVENUE N.E. UTILITY PLAN
SG-05	197	KENILWORTH AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE I
SG-06	198	KENILWORTH AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE II
SG-07	199	KENILWORTH AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE III
SG-08	200	KENILWORTH AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE I
SG-09	201	KENILWORTH AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE II
SG-10	202	KENILWORTH AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE III
SG-11	203	KENILWORTH AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE IV
SG-12	204	KENILWORTH AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE PLAN V
SG-13	205	KENILWORTH AVENUE AND NANNIE HELEN BURROUGHS AVENUE N.E. TRAFFIC SIGNAL MODIFICATION
SG-14	206	KENILWORTH AVENUE AND NANNIE HELEN BURROUGHS AVENUE N.E. TRAFFIC SIGNAL MODIFICATION
SG-15	207	KENILWORTH AVENUE AND NANNIE HELEN BURROUGHS AVENUE N.E. CABLE ROUTING SCHEMATIC

DWG. NO.	SHEET NO.	DESCRIPTION
--	208	TITLE SHEET - LIGHTING AND SIGNAL BREAKOUT ALONG EASTERN AVENUE
LT-01	209	LEGEND AND GENERAL NOTES (PART II)
LT-02	210	LIGHTING PLAN I (PART II)
LT-03	211	LIGHTING PLAN II (PART II)
LT-04	212	LIGHTING SCHEMATIC I (PART II)
LT-05	213	LIGHTING SCHEMATIC II (PART II)
LT-06	214	ELECTRICAL TABLES I (PART II)
LT-07	215	ELECTRICAL TABLES II (PART II)
LT-08	216	ELECTRICAL TABLES III (PART II)
LT-09	217	LIGHTING PLAN DETAILS I (PART II)
LT-10	218	LIGHTING PLAN DETAILS II (PART II)
LT-11	219	LIGHTING PLAN DETAILS III (PART II)
LT-12	220	LIGHTING PLAN DETAILS IV (PART II)
LT-13	220A	LIGHTING PLAN DETAILS V (PART II)
SG-01	221	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION
SG-02	222	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION
SG-03	223	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. CABLE ROUTING SCHEMATIC
SG-04	224	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. UTILITY PLAN
SG-05	225	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE PLAN I
SG-06	226	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE PLAN II
SG-07	227	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE PLAN I
SG-08	228	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE PLAN II
SG-09	229	ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE III

DWG. NO.	SHEET NO.	DESCRIPTION
--	230	TITLE PAGE - REHABILITATION OF EASTERN AVENUE PUMPING STATION
PS-S-1	231	STRUCTURAL GENERAL NOTES AND ABBREVIATIONS
PS-S-2	232	EXISTING STRUCTURE
PS-S-3	233	STRUCTURAL REPAIR LOCATION
PS-S-4	234	TYPICAL CONCRETE REPAIR-1
PS-S-5	235	TYPICAL CONCRETE REPAIR-2
PS-S-6	236	MODIFICATION TO EXISTING STRUCTURE
PS-S-7	237	CRANE FRAMING SUPPORT AND DETAILS
PS-S-8	238	REMOVAL AND REPLACEMENT OF EXISTING DOOR AND MISC. DETAILS
MED-1	239	MECHANICAL AND ELECTRICAL DEMOLITION PLANS
MP-1	240	MECHANICAL AND PLUMBING PLANS AND ELEVATIONS
E-0	241	ELECTRICAL DATA SHEET
E-1	242	ELECTRICAL POWER PLANS AND RISER

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROJECT ENG.	_____
DESIGNED BY	_____
CHECKED BY	_____
DRAWN BY	_____
PROJECT MGR.	_____
DIVISION CHIEF	_____

INDEX OF DRAWINGS

DATE 05 / 01 / 2009
FILE _____

①	ADDED SHEET TO INDEX	MC	7/1/2009
②	ADDED SHEET TO INDEX	MC	7/15/2009
③	ADDED SHEET TO INDEX	MC	6/7/2010
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



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SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
000 003	EMPLOYEE TRAINING	HR	100
000 506	UNASSIGNED SPECIAL ITEM -EACH - 617043 FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 28 FOOT STEEL TRAFFIC SIGNAL POLE MOUNTED ON A TRANSFORMER BASE	EACH	1
000 506	UNASSIGNED SPECIAL ITEM -EACH - 617047 RELOCATE TRAFFIC SIGNAL CONTROLLER ON TEMPORARY, PORTABLE CONCRETE	EACH	2
000 506	UNASSIGNED SPECIAL ITEM -EACH - 617131 FURNISH AND INSTALL CCTV CAMERA SYSTEM	EACH	1
000 506	UNASSIGNED SPECIAL ITEM -EACH - 617133 RELOCATE CCTV CAMERA SYSTEM	EACH	2
000 506	UNASSIGNED SPECIAL ITEM -EACH - 617151 FURNISH AND INSTALL FOUNDATION FOR CCTV CAMERA IN BARRIER AND REMOVE AT THE END OF THE PROJECT	EACH	1
000 511	UNASSIGNED SPECIAL ITEM -LS - 000520 PARTNERING COSTS	LS	1
108 002	PROGRESS PHOTOGRAPHS	LS	1
108 004	AS-BUILT DRAWINGS	LS	1
202 002	COMMON EXCAVATION	CY	1,341
202 004	HARD SURFACE PAVEMENT EXCAVATION	CY	1,700
204 004	BORROW EMBANKMENT FILL	CY	300
205 002	STRUCTURE EXCAVATION	CY	950
205 004	STRUCTURE HARD SURFACE EXCAVATION	CY	15
200 008	EARTHWORK SPECIAL ITEM -LS - 205 008 DEMOLITION (BRIDGE)	LS	1
206 002	STRUCTURE BACKFILL	CY	270
207 002	TRENCH EXCAVATION AND BACKFILL	CY	380
207 004	TRENCH UNDERCUT EXCAVATION	CY	40
207 006	GRAVEL FOR TRENCH UNDERCUT	CY	40
207 008	BORROW TRENCH BACKFILL	CY	50
209 002	AGGREGATE BASE COURSE	CY	910
212 991	TEST PIT SPECIAL ITEM - EACH - 212003 TEST PIT	EACH	12
300 004	WATER AND SEWER SERVICE SPECIAL ITEM-EACH- 311063 CLEAN SEWER STRUCTURES	EACH	7
300 005	WATER AND SEWER SERVICE SPECIAL ITEM-LF - 311065 CLEAN PCC PIPE	LF	250
309 002	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIA.	VL	45
309 991	SEWER MANHOLE SPECIAL ITEM - EACH - 309800 CAP INLET AND RESTORE BACK TO ORIGINAL CONDITION	EACH	1
309 992	SEWER MANHOLE SPECIAL ITEM - VLF - 309801 SPECIAL SEWER MANHOLES	VL	18
310 008	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	LF	40
310 992	CATCH BASINS SPECIAL ITEM -EACH - 310005 DOUBLE WATER QUALITY CONTROL BASIN	EACH	3
310 992	CATCH BASINS SPECIAL ITEM -EACH - 310800 CONVERT CURB INLET INTO GRATE INLET AND CONVERT BACK	EACH	1
311 002	ADJUST SEWER-WATER-UTILITY MANHOLE FRAME	EACH	16
311 004	RESET SEWER-WATER-UTILITY MANHOLE FRAME	EACH	6
311 020	MANHOLE ADAPTER RING	EACH	8
313 002	ABANDON BASIN CONNECTING PIPE	EACH	13
313 004	ABANDON SEWER MANHOLE	EACH	3
314 006	PCC PIPE, CLASS III, GASKET, 18 INCH	LF	460
400 005	ASPHALT CONSTRUCTION SPECIAL ITEM -LF - 403003 PAVEMENT REINFORCING FABRIC FOR CRACK REPAIR	LF	2,072
400 007	ASPHALT CONSTRUCTION SPECIAL ITEM -SF - 403004 PAVEMENT REINFORCING FABRIC FOR ASPHALT OVERLAY	SF	2,302
402 002	SUPERPAVE BASE COURSE, 19 MM	TON	1,847
402 010	SUPERPAVE SURFACE COURSE, 9.5 MM	TON	2,841
403 002	TACK COAT	SY	5,031
502 004	PCC BASE FOR UTILITY CUTS	CY	176
504 006	PCC DRIVEWAY-ALLEY ENTRANCE, 7 INCH	SY	15
601 006	PCC DIRECTIONAL ISLAND	CY	550
603 014	UNDERDRAIN CONNECT PIPE, 8 INCH	LF	50
605 002	W BEAM GUIDERAIL	LF	791
605 016	GUIDERAIL APPROACH TERMINAL	EACH	2
605 024	W BEAM TERMINAL CONNECTOR W BEAM TERMINAL	EACH	2
605 038	REMOVE W BEAM/THREE BEAM GUIDERAIL	LF	618
607 010	CHAIN LINK FENCE, 12 FT. HT.	LF	74
607 038	REMOVE EXISTING CHAIN LINK FENCE	LF	74
608 004	PCC SIDEWALK, 4 INCH	SY	588
608 024	BRICK SIDEWALK ON PCC BASE	SY	80
609 006	PCC CURB AND GUTTER, 13 TO 15 INCH DEPTH	LF	310
609 068	FURNISH AND SET 8"x12" GRANITE STRAIGHT CURB	LF	3,158
609 088	FURNISH AND SET 8"x12" GRANITE STRAIGHT CURB	LF	350
609 070	FURNISH AND SET 8"x12" GRANITE CIRCULAR CURB, RADIUS UNDER 10 FT.	LF	50
609 072	FURNISH AND SET 8"x12" GRANITE CIRCULAR CURB, RADIUS 10-100 FT.	LF	297
609 072	FURNISH AND SET 8"x12" GRANITE CIRCULAR CURB, RADIUS 10-100 FT.	LF	250
609 200	PCC WHEELCHAIR/BICYCLE RAMP - NEW CONSTRUCTION	EACH	15
609 202	PCC WHEELCHAIR/BICYCLE RAMP - EXISTING CONSTRUCTION	EACH	8
610 008	HYDROSEED WITH 4 INCH TOPSOIL	SY	20

SUMMARY OF QUANTITIES - CONTINUED

ITEM	DESCRIPTION	UNIT	QUANTITY
610 020	SOD WITH 4 INCH TOPSOIL	SY	2,881
610 060	MULCH	SY	220
611 036	REMOVE TREE STUMPS, ALL SIZES	EACH	2
611 050	PRUNE TREE	EACH	2
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611160 LIQUIDAMBAR STYRACIFLUA 'CHEROKEE' 3" CALIPER	EACH	38
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611161 QUERCUS RUBRUM 3" CALIPER B&B	EACH	29
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611162 JUNIPERUS CHINENSIS 'OLD GOLD' 24" HEIGHT B&B	EACH	57
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611163 JUNIPERUS CONFERA 'SILVER MIST' 24" SPREAD B&B	EACH	99
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611164 JUNIPERUS SQUAMATA 'BLUE STAR' 24" SPREAD B&B	EACH	107
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611165 PICEA ABIES 'NIDIFORMIS' 24" HEIGHT B&B	EACH	11
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611166 PINUS MUGO VAR. PUMIDIO 36" HEIGHT B&B	EACH	11
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611167 PINUS THUNDERBOLT 'THUNDERHEAD' 36" HEIGHT B&B	EACH	18
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611168 THUJA OCCIDENTALIS 'HENZI MIDGET' 18" HEIGHT B&B	EACH	15
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611169 THUJA OCCIDENTALIS 'RHEINGOLD' 24" HEIGHT B&B	EACH	7
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611170 LAGERSTROEMIA INDICA 'POCOMOKE' (SHRUB) 30" HEIGHT B&B	EACH	42
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611171 YUCCA FILAMENTOSA 'BRIGHT EDGE' 3 GALLON HEIGHT CONTAINER	EACH	24
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611172 FESTUCA GLAUCA 1 GALLON	EACH	53
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611173 PANICUM VIRGATUM HEAVY METAL 1 GALLON	EACH	23
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611174 PANICUM VIRGATUM 'SHENANDOAH' 1 GALLON	EACH	57
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611175 DELOSPERMA NUBIGENUM 1 GALLON	EACH	30
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611176 SEDUM ALBUM 1 GALLON	EACH	60
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611177 SEDUM REFLEXUM 1 GALLON	EACH	60
611 999	TREE, SHRUB, VINE, & GROUND COVER SPECIAL ITEM - EACH - 611178 SEDUM SPECTABLE 1 GALLON	EACH	20
612 002	MOBILIZATION	LS	1
614 012	PORTABLE PRECAST PCC BARRIER INSTALLATION	LF	6,945
614 012	PORTABLE PRECAST PCC BARRIER RELOCATION	LF	2,322
615 991	MEMBRANE WATERPROOFING SPECIAL ITEM - SY - 795001 MEMBRANE WATERPROOFING	SY	1,700
616 001	MAINTENANCE OF HIGHWAY TRAFFIC	LS	1
616 004	CONSTRUCTION LANE CLOSING	LS	1
616 006	REMOVE LANE MARKINGS	SF	3,585
616 008	TEMPORARY CONSTRUCTION SIGN SUPPORTS	EACH	289
616 012	CONSTRUCTION WARNING AND DETOUR SIGNS	SF	3,312
616 016	FLASHING AMBER WARNING LIGHTS, TYPE "B"	EACH	14
616 020	SEQUENTIAL ARROW BOARDS	EACH	5
616 022	CONSTRUCTION SIGN WARNING FLAGS	EACH	4
616 024	TYPE III PVC BARRICADE	EACH	353
616 028	TRAFFIC DRUMS	EACH	690
616 030	SINGLE-FACED WHITE RAISED REFLECTIVE PAVEMENT MARKERS RECESSED	EACH	271
616 030	SINGLE-FACED WHITE RAISED REFLECTIVE PAVEMENT MARKERS SURFACE MOUNTED	EACH	170
616 032	SINGLE-FACED YELLOW RAISED REFLECTIVE PAVEMENT MARKERS RECESSED	EACH	82
616 032	SINGLE-FACED YELLOW RAISED REFLECTIVE PAVEMENT MARKERS SURFACE MOUNTED	EACH	10
616 040	THERMOPLASTIC PAVEMENT MARKING, 4 INCH	LF	810
616 042	THERMOPLASTIC PAVEMENT MARKING, 4 INCH DASH	LF	27
616 044	THERMOPLASTIC PAVEMENT MARKING, 6 INCH	LF	4,940
616 046	THERMOPLASTIC PAVEMENT MARKING, 6 INCH DASH	LF	1,550
616 048	THERMOPLASTIC PAVEMENT MARKING, 8 INCH	LF	30
616 050	THERMOPLASTIC PAVEMENT MARKING, 12 INCH	LF	287
616 054	THERMOPLASTIC PAVEMENT ARROW	EACH	8
616 080	TRUCK MOUNTED ATTENUATOR	EACH	4
616 090	CONSTRUCTION ZONE ATTENUATOR	EACH	3
616 100	SAND-FILLED IMPACT ATTENUATOR MODULE	EACH	117

SUMMARY OF QUANTITIES - CONTINUED

ITEM	DESCRIPTION	UNIT	QUANTITY
616 993	TRAFFIC CONTROL SPECIAL ITEM - HR - 616 110 PORTABLE CHANGEABLE MESSAGE SIGN	HR	12,000
616 991	TRAFFIC CONTROL SPECIAL ITEM - LS - 616800 CONSTRUCTION NEWSLETTER	LS	1
616 992	TRAFFIC CONTROL SPECIAL ITEM - EACH - 616801 REMOVABLE PREFORMED PAVEMENT ARROW	EACH	23
616 992	TRAFFIC CONTROL SPECIAL ITEM - EACH - 616802 REMOVABLE PREFORMED PAVEMENT LETTER	EACH	8
616 992	TRAFFIC CONTROL SPECIAL ITEM - EACH - 616803 REPLACE & REPLACE LENSES FROM EXISTING RPMs	EACH	10
616 993	TRAFFIC CONTROL SPECIAL ITEM - HR - 616804 COURTESY PATROL SERVICE	HR	3,000
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616805 VISUAL SCREEN MOUNTED ON TEMP. PCC BARRIER	LF	2,120
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616806 4" REMOVABLE PREFORMED LINE STRIPING	LF	1,002
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616807 12" REMOVABLE PREFORMED LINE STRIPING	LF	6,928
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616808 10" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (INLAID TAPE)	LF	425
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616809 6" REMOVABLE PREFORMED LINE STRIPING	LF	17,729
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616810 5" SOLID YELLOW PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (INLAID TAPE)	LF	1,709
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616811 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE CONTRAST PAVEMENT MARKINGS (PPRCP) (10' LINE, 30' GAP)	LF	79
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616812 10" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (3' LINE, 9' GAP) (INLAID TAPE)	LF	150
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616813 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP) (INLAID TAPE)	LF	2,535
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616814 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP) (NOT INLAID)	LF	230
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616815 INSTALL PORTABLE PRECAST PCC BARRIER-SINGLE FACE	LF	98
616 994	TRAFFIC CONTROL SPECIAL ITEM - LF - 616816 5" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (INLAID TAPE)	LF	1,210
616 995	TRAFFIC CONTROL SPECIAL ITEM - SF - 616817 MODIFY EXISTING OVERHEAD SIGN	SF	202
616 995	TRAFFIC CONTROL SPECIAL ITEM - SF - 616818 COVER EXISTING SIGN	SF	134
617 006	REMOVE ABANDONED TRAFFIC SIGNAL OR STREET LIGHT POLE FOUNDATION	EACH	10
617 028	FURNISH AND INSTALL HANDBOX	EACH	1
617 030	FURNISH AND INSTALL ONE 2 INCH AND TWO 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	156
617 032	FURNISH AND INSTALL ONE 2 INCH AND ONE 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	299
617 034	FURNISH AND INSTALL FOUR 4 INCH PVC ENCASED ELECTRICAL CONDUITS	LF	292
617 038	FURNISH AND INSTALL PCC FOUNDATION FOR CONTROLLER CABINET	EACH	2
617 040	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR MODEL 336-S AND MODEL 336-SS TRAFFIC SIGNAL CONTROLLER	EACH	2
617 042	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 20 FOOT STEEL TRAFFIC SIGNAL POLE MOUNTED ON A TRANSFORMER BASE	EACH	8
617 044	RELOCATE ANY TEMPORARY, PORTABLE, CONCRETE BASE	EACH	9
617 046	FURNISH AND INSTALL 20 FOOT TALL STEEL TRAFFIC SIGNAL POLE	EACH	19
617 048	FURNISH AND INSTALL 8 FOOT LONG CLAMP ON MAST ARM WITH CLAMP AND REMOVABLE END CAP	EACH	9
617 050	FURNISH AND INSTALL 7 CONDUCTOR 14 AWG STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	5,838
617 058	FURNISH AND INSTALL 25 PAIR 19 AWG UNDERGROUND COMMUNICATIONS CABLE	LF	6,295

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	3	242

QN-01

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

SUMMARY OF QUANTITIES - 1

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DIVISION CHIEF

DATE 05 / 01 / 2009
FILE _____

1	REVISED SUMMARY OF QUANTITIES	MC	7/10/2009
REVISIONS			
NO.	DESCRIPTION	NAME	DATE



GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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SUMMARY OF QUANTITIES - CONTINUED

ITEM	DESCRIPTION	UNIT	QUANTITY
617 068	FURNISH RED BALL LED MODULE	EACH	37
617 070	FURNISH YELLOW BALL LED MODULE	EACH	37
617 072	FURNISH GREEN BALL LED MODULE	EACH	37
617 076	FURNISH YELLOW ARROW LED MODULE	EACH	4
617 078	FURNISH GREEN ARROW LED MODULE	EACH	6
617 084	FURNISH 12 INCH OVERLAY LUNAR WHITE WALKING PERSON AND PORTLAND ORANGE RAISED HAND LED MODULE	EACH	25
617 086	FURNISH 12 INCH PORTLAND ORANGE COUNTDOWN LED	EACH	25
617 090	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A POLE (ALL LENSES 12")	EACH	20
617 092	FURNISH AND INSTALL 4 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A POLE (ALL LENSES 12")	EACH	2
617 094	FURNISH AND INSTALL 5 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A POLE (ALL LENSES 12")	EACH	4
617 096	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A MAST ARM (ALL LENSES 12")	EACH	9
617 098	FURNISH AND INSTALL 4 SECTION CONVENTIONAL TRAFFIC SIGNAL HEAD ON A MAST ARM (ALL LENSES 12")	EACH	4
617 102	FURNISH AND INSTALL 3 SECTION OPTICALLY PROGRAMMABLE TRAFFIC SIGNAL HEAD ON A POLE (ALL LENSES 12")	EACH	2
617 114	FURNISH AND INSTALL 2 SECTION CONVENTIONAL PEDESTRIAN SIGNAL HEAD ON A POLE (12")	EACH	25
617 120	FURNISH AND INSTALL MICROWAVE VEHICLE DETECTOR	EACH	1
617 124	FURNISH AND INSTALL TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	2
617 126	REMOVE ABANDONED TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION	EACH	2
617 130	REMOVE TRAFFIC SIGNAL POLE AND TRAFFIC SIGNAL	EACH	3
617 132	REMOVE TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	2
617 164	TRAFFIC SIGN PANELS	SF	475
618 016	FURNISH AND INSTALL 36" X 36" X 36" MANHOLE	EACH	8
618 020	REMOVE MANHOLE OVER 24" X 24"	EACH	1
618 022	FURNISH AND INSTALL 48" X 48" X 48" MANHOLE	EACH	12
618 072	FURNISH AND INSTALL 1-2" SCHEDULE 40 RIGID PVC CONDUIT	LF	523
618 148	FURNISH AND INSTALL 6-4" SCHEDULE 40 RIGID PVC CONDUITS (DUCT BANK)	LF	917
618 150	FURNISH AND INSTALL 6-4" AND 1-2" SCHEDULE 40 RIGID PVC CONDUITS (DUCT BANK)	LF	265
618 152	FURNISH AND INSTALL 6-4" AND 2-2" SCHEDULE 40 RIGID PVC CONDUITS (DUCT BANK)	LF	120
618 160	FURNISH AND INSTALL 2-4" SCHEDULE 40 RIGID PVC CONDUITS (DUCT BANK)	LF	446
618 190	FURNISH AND INSTALL #10 STRANDED WIRE	LF	2,822
618 200	INSTALL D.C. FURNISHED #8 STRANDED WIRE	LF	503
618 202	FURNISH AND INSTALL #8 STRANDED WIRE	LF	1,929
618 250	FURNISH AND INSTALL #0000 STRANDED WIRE	LF	4,518
618 292	FURNISH AND INSTALL #8 STRANDED GROUND WIRE	LF	1,561
618 310	FURNISH AND INSTALL #2 STRANDED GROUND WIRE	LF	1,506
618 394	FURNISH AND INSTALL 15" B.C. STREET LIGHT FOUNDATION	EACH	35
618 400	REMOVE STREET LIGHT POLE FOUNDATION	EACH	6
618 436	FURNISH AND INSTALL 15" B.C. STEEL TRANSFORMER BASE	EACH	39
618 486	FURNISH AND INSTALL #16 CAST IRON POLE	EACH	6
618 544	FURNISH 28'-6" STEEL PENDANT POLE WITH UP TO 8' ARM	EACH	20
618 566	REMOVE PENDANT POLE 30 FT. HEIGHT OR LESS	EACH	6
618 668	REMOVE ARM FROM WOOD POLE UP TO 8 FT. IN LENGTH	EACH	29
618 676	FURNISH AND INSTALL 8 FT. ARM ON WOOD POLE	EACH	28
618 720	REMOVE LUMINAIRE FROM WOOD POLE	EACH	29
618 722	REMOVE LUMINAIRE FROM STEEL POLE	EACH	7
618 760	FURNISH AND INSTALL 250 WATT HPS TEAR DROP LUMINAIRE	EACH	14
618 778	FURNISH AND INSTALL 400 WATT HPS TEAR DROP LUMINAIRE	EACH	35
618 802	FURNISH AND INSTALL 250 WATT HPS CONVERSION KIT	EACH	6
618 860	FURNISH AND INSTALL 118 PLASTIC GLOBE	EACH	6
618 888	FURNISH AND INSTALL 4" PVC RIGID U-GUARD ON WOOD POLE	LF	25
618 896	FURNISH AND INSTALL 1" PVC RIGID U-GUARD ON WOOD POLE	LF	135
618 930	FURNISH ELECTRICAL JUNCTION BOX	EACH	10
618 991	ELECTRICAL WORK SPECIAL ITEM -LS- 618825 SIGN LIGHTING AND COMPLETE SYSTEM	LS	1
618 992	ELECTRICAL WORK SPECIAL ITEM -EACH- 618395 FURNISH AND INSTALL SPECIAL SPREAD FOOTER FOR STREETLIGHT AND TRAFFIC SIGNAL POLE	EACH	2
618 992	ELECTRICAL WORK SPECIAL ITEM -EACH- 618757 FURNISH AND INSTALL WALL MOUNTED HPS LUMINAIRE	EACH	12
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618071 FURNISH AND INSTALL 5-4" AND 1-2" DIA RIGID PVC CONDUITS	LF	22

SUMMARY OF QUANTITIES - CONTINUED

ITEM	DESCRIPTION	UNIT	QUANTITY
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618073 FURNISH AND INSTALL 2" RIGID METAL CONDUIT	LF	284
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618075 FURNISH AND INSTALL 3/4" RIGID METAL CONDUIT	LF	148
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618149 FURNISH AND INSTALL 6-4" DIA RIGID METAL CONDUITS	LF	34
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618151 FURNISH AND INSTALL 6-4" DIA AND 1-2" DIA RIGID METAL CONDUITS	LF	48
618 999	PAYMENT TO PEPCO FOR CONNECTION AND DISCONNECTION OF SERVICE TO STREETLIGHTS AND TRAFFIC SIGNALS FURNISH AND INSTALL NEW ELECTRICAL SERVICE TO CONTROLLER CABINETS AT SIGNAL LOCATIONS	LS	1
618 999	PAYMENT TO PEPCO FOR CONNECTION AND DISCONNECTION OF SERVICE TO STREETLIGHTS AND TRAFFIC SIGNALS PAYMENT TO PEPCO FOR CONNECTION, DISCONNECTION AND INSPECTION FOR TRAFFIC SIGNAL AND STREETLIGHTS	LS	1
620 002	TIMBER GROUND MOUNTED SIGN POSTS, 4X4 INCH	LF	53
620 004	TIMBER GROUND MOUNTED SIGN POSTS, 4X6 INCH	LF	80
620 012	GUIDE SIGN PANELS	SF	836
620 030	REMOVE EXISTING OVERHEAD SIGN	SF	418
620 032	RELOCATE EXISTING GROUND MOUNTED SIGN	SF	183
620 032	REMOVE EXISTING GROUND MOUNTED SIGN	SF	43
620 036	RESET GUIDE SIGN PANEL	SF	292
620 040	FEDERAL AID PROJECT SIGN & AMERICAN REINVESTMENT AND RECOVERY ACT SIGN	EACH	4
620 991	TRAFFIC SIGNING SPECIAL ITEM - LF - 620800 S4 X 7.7 STEEL SIGN SUPPORT	LF	26
620 993	TRAFFIC SIGNING SPECIAL ITEM - EACH - 620801 BREAKAWAY BASE SIGN SUPPORT	EACH	2
624 002	ENGINEER'S FIELD FACILITIES	LS	1
625 002	FIELD LAYOUT	LS	1
628 002	EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION	LS	1
700 002	STRUCTURES CONSTRUCTION SPECIAL ITEM - CY - 795002 ASPHALT OVERLAY FOR SUPERSTRUCTURE	CY	150
703 002	PCC FOOTING FOR STEEL SIGN STRUCTURE	CY	16
703 002	PCC FOOTING	CY	260
703 006	PCC PIER-ABUTMENT-WALL	CY	410
703 008	PCC SUPERSTRUCTURE	CY	220
703 012	LIGHTWEIGHT PCC SUPERSTRUCTURE	CY	430
703 014	PCC APPROACH SLAB	CY	270
704 002	REINFORCING STEEL	LBS	28,760
704 004	EPOXY COATED REINFORCEMENT BARS	LBS	251,370
706 006	STRUCTURAL STEEL - AASHTO M270, GRADE 50	LBS	367,240
706 020	BRIDGE BEARINGS, (EACH)	EACH	102
707 002	PAINT NEW METALWORK	LS	1
707 010	EPOXY PROTECTIVE COATING	SY	200
708 002	STONE MASONRY, CLASS A	CF	840
708 011	RESET STONE MASONRY	CF	840
708 013	REPOINT STONE MASONRY	LF	1,800
713 002	STEEL SIGN STRUCTURE	LS	1
717 002	ARMORED JOINT WITH NEOPRENE STRIP SEAL	LF	110
000 506	UNASSIGNED SPECIAL ITEM -EACH- 617029 ABANDON HANDBOX	EACH	1
000 506	UNASSIGNED SPECIAL ITEM -EACH- 617045 RELOCATE ANY TEMPORARY PORTABLE, CONCRETE BASE NOT FURNISHED BY CONTRACTOR	EACH	2
000 511	UNASSIGNED SPECIAL ITEM -LS- 610100 PLANTER SOIL (GROWING MEDIA)	LS	1
310 992	CATCH BASINS SPECIAL ITEM -EACH - 300004 CAP INLET	EACH	1
606 002	PAVEMENT PROFILING (MILLING)	SY	19,100
617 002	FURNISH AND INSTALL INDUCTIVE LOOP DETECTOR	LF	256
617 052	FURNISH AND INSTALL 4 CONDUCTOR 18 AWG SHIELDED, STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	180
617 060	FURNISH AND INSTALL 25 PAIR 19 AWG OVERHEAD COMMUNICATIONS CABLE	LF	3,250
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618161 FURNISH AND INSTALL 6-4" DIA AND 1-2" DIA RIGID PVC CONDUITS	LF	26
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618163 FURNISH AND INSTALL 8-4" DIA RIGID PVC CONDUITS	LF	81
000 506	UNASSIGNED SPECIAL ITEM -EACH- 617029 ABANDON HANDBOX	EACH	1
000 506	UNASSIGNED SPECIAL ITEM -EACH- 617045 RELOCATE ANY TEMPORARY PORTABLE, CONCRETE BASE NOT FURNISHED BY CONTRACTOR	EACH	2
000 511	UNASSIGNED SPECIAL ITEM -LS- 610100 PLANTER SOIL (GROWING MEDIA)	LS	1
310 992	CATCH BASINS SPECIAL ITEM -EACH - 300004 CAP INLET	EACH	1
606 002	PAVEMENT PROFILING (MILLING)	SY	19,100
617 002	FURNISH AND INSTALL INDUCTIVE LOOP DETECTOR	LF	256
617 052	FURNISH AND INSTALL 4 CONDUCTOR 18 AWG SHIELDED, STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	180
617 060	FURNISH AND INSTALL 25 PAIR 19 AWG OVERHEAD COMMUNICATIONS CABLE	LF	3,250
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618161 FURNISH AND INSTALL 6-4" DIA AND 1-2" DIA RIGID PVC CONDUITS	LF	26
618 993	ELECTRICAL WORK SPECIAL ITEM -LF- 618163 FURNISH AND INSTALL 8-4" DIA RIGID PVC CONDUITS	LF	81

**SUMMARY OF QUANTITIES
REHABILITATION OF EASTERN AVENUE PUMPING STATION**

ITEM	DESCRIPTION	UNIT	QUANTITY
000 511	UNASSIGNED SPECIAL ITEM -LS - 205009 DEMOLITION	LS	1
619 002	MECHANICAL WORK DRY PIT SUBMERSIBLE PUMP	LS	2
619 991	MECHANICAL WORK SPECIAL ITEM -LS- 619800 PUMPING STATION REHABILITATION	LS	1
621 991	MISCELLANEOUS ELECTRICAL WORK SPECIAL ITEM - LS - 621800 PUMPING STATION REHABILITATION	LS	1
621 991	MISCELLANEOUS ELECTRICAL WORK SPECIAL ITEM - LS - 621801 COMMUNICATION WEB BASED	LS	4
621 991	MISCELLANEOUS ELECTRICAL WORK SPECIAL ITEM - LS - 621802 UPGRADED ELECTRICAL SERVICE	LS	1
700 005	STRUCTURES CONSTRUCTION SPECIAL ITEM - LF - 716015 CONCRETE REPAIR TYPE 3	LF	40
700 009	STRUCTURES CONSTRUCTION SPECIAL ITEM - SF - 700100 NON-SHRINK GROUT <1"	SF	20
700 009	STRUCTURES CONSTRUCTION SPECIAL ITEM - SF - 716013 CONCRETE REPAIR TYPE 2	SF	150
700 009	STRUCTURES CONSTRUCTION SPECIAL ITEM - SF - 716011 CONCRETE REPAIR TYPE 1	SF	300
700 009	STRUCTURES CONSTRUCTION SPECIAL ITEM - SF - 716019 CONCRETE REPAIR TYPE 4 - FIRST FLOOR ROOM	SF	700
700 009	STRUCTURES CONSTRUCTION SPECIAL ITEM - SF - 716017 CONCRETE REPAIR TYPE 4 - PUMP AND SUMP ROOM	SF	900
706 991	STRUCTURAL STEEL SPECIAL ITEM - LBS - 706800 STRUCTURAL STEEL	LBS	1,100
706 993	STRUCTURAL STEEL SPECIAL ITEM - LS - 706801 HEAVY DUTY EXTERIOR STEEL DOOR	LS	1
706 993	STRUCTURAL STEEL SPECIAL ITEM - LS - 706802 GRATING 1.5"X20", HEAVY-DUTY STEEL BAR GRATING	LS	1

QN-02

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

SUMMARY OF QUANTITIES - 2

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DIVISION CHIEF _____

DATE: 05 / 01 / 2009

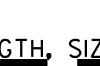



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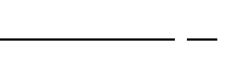
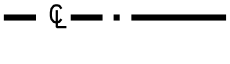

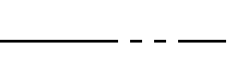
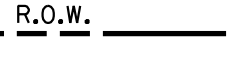

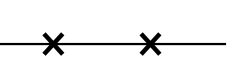
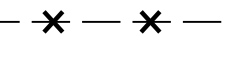



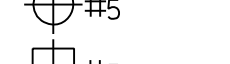










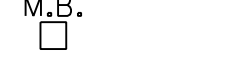
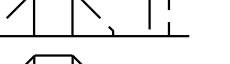
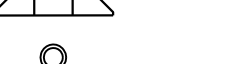
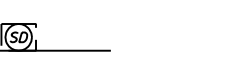
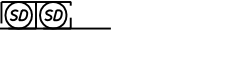


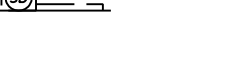


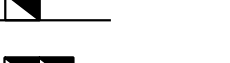

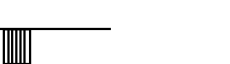
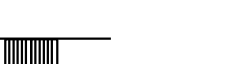

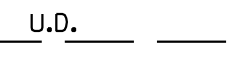







NO.	DESCRIPTION	NAME	DATE
1	REVISED SUMMARY OF QUANTITIES	MC	7/10/2009
REVISIONS			

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.G-and-O.com

STANDARD SYMBOLS

ABBREVIATIONS

	EXISTING STORMDRAIN MANHOLE
	EXISTING COMBINED SANITARY & STORMDRAIN MANHOLE
	EXISTING SANITARY SEWER VENT
	EXISTING MANHOLE UNKNOWN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING WATER MANHOLE
	EXISTING SANITARY SEWER CLEANOUT
	EXISTING WATER METER
	EXISTING WATER VALVE OR CUT-OFF
	EXISTING GAS METER
	EXISTING GAS VALVE OR CUT-OFF
	EXISTING GAS VENT
	EXISTING ELECTRIC METER
	PROPOSED SANITARY SEWER, STORM DRAIN, WATER MANHOLE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE, GATE VALVE
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE LESS THAN 24"
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE 24" OR GREATER
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE TO BE ABANDONED
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE TO BE ABANDONED
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE TO BE REMOVED
	EXISTING CATCH BASIN CONNECTION WITH DIRECTION OF FLOW
	PROPOSED CATCH BASIN CONNECTION WITH DIRECTION OF FLOW
	PROPOSED STORM DRAIN LINE WITH DIRECTION OF FLOW, LESS THAN 24"
	PROPOSED STORM DRAIN LINE WITH DIRECTION OF FLOW, 24" OR GREATER
	EXISTING CULVERT WITH DIRECTION OF FLOW
	PROPOSED CULVERT WITH DIRECTION OF FLOW
	EXISTING RAILROAD
	EXISTING STREETCAR TRACKS
	PROPOSED LIMIT OF MAJOR WORK
	PROPOSED LIMIT OF REPAIR WORK
	EXISTING HEDGEROW
	EXISTING BUSH OR SHRUB
	EXISTING DECIDUOUS TREE, EVERGREEN TREE
	PROPOSED TREE
	EXISTING TREE STUMP
	EXISTING TREE TO BE REMOVED
	EXISTING TREE WITH TREE PROTECTION
	EXISTING WALL OR COPING
	PROPOSED WALL OR COPING
	EXISTING ELECTRIC VAULT
	EXSITING GUARDRAIL - SINGLE FACE
	PROPOSED GUARDRAIL - SINGLE FACE
	EXSITING GUARD RAIL - DOUBLE FACE
	PROPOSED GUARD RAIL - DOUBLE FACE

	EXISTING BASE LINE OR CENTER LINE
	PROPOSED CENTER LINE
	PROPOSED BASE LINE
	FEATURES TO REMAIN
	STATE LINE
	RIGHT-OF-WAY LINE
	BUILDING RESTRICTION LINE
	LOT LINE
	PROPOSED FENCE (Indicate Type)
	EXISTING FENCE (Indicate Type)
	EXISTING SPOT ELEVATION (AND/OR FEATURE)
	PROPOSED SPOT ELEVATION (AND/OR FEATURE)
	BENCH MARK WITH NUMBER
	TRIANGULATION OR COORDINATION STATION
	LOCATION OF TEST BORING WITH NUMBER
	LOCATION OF TEST PIT WITH NUMBER
	TRIANGULATION OR CONTROL POINT
	REVISION WITH NUMBER
	BREAK IN GRADE
	STATION EQUATION
	EXISTING PARKING METER
	EXISTING FIRE ALARM BOX
	EXISTING POLICE CALL BOX
	EXISTING TRASH/WASTE CAN
	EXISTING GAS, TELEPHONE, ELECTRIC MANHOLE
	EXISTING GUY WIRE ANCHOR
	DIRECTION OF TRAFFIC
	EXISTING SIGN & POST
	PROPOSED SIGN & POST
	MAIL BOX
	EXISTING WHEELCHAIR/BICYCLE RAMP
	PROPOSED WHEELCHAIR/BICYCLE RAMP
	EXISTING BOLLARD OR POST
	EXISTING SINGLE CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING TRIPLE CATCH BASIN
	EXISTING SINGLE CATCH BASIN WITH DOUBLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH TRIPLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH GRATE
	EXISTING DOUBLE CATCH BASIN WITH GRATE
	PROPOSED SINGLE CATCH BASIN
	PROPOSED DOUBLE CATCH BASIN
	PROPOSED TRIPLE CATCH BASIN
	PROPOSED SINGLE CATCH BASIN WITH GRATE
	PROPOSED DOUBLE CATCH BASIN WITH GRATE
	EXISTING UNDERDRAIN
	PROPOSED UNDERDRAIN

ABUT.	ABUTMENT	OH	OVERHEAD
AC / A.C.	ASPHALTIC CONCRETE	O.C.	ON CENTER
ALT.	ALTERNATE	R	PLATE
ANG./-	ANGLE	PCC	PORTLAND CEMENT CONCRETE
APPROX.	APPROXIMATE	PCCP	PORTLAND CEMENT CONCRETE PIPE
@	AT	P.C.C.	POINT OF COMPOUND CURVATURE
AGG.	AGGREGATE	PC	POINT OF CURVE
AVE.	AVENUE	PGL	PROFILE GRADE LINE
ASPH	ASPHALT	POC	POINT ON CURVE
		POT	POINT ON TANGENT
R	BASELINE	PT	POINT OF TANGENCY
B. C.	BOTTOM OF CURB	PI	POINT OF INTERSECTION
BOT.	BOTTOM	PRC	POINT OF REVERSE CURVATURE
BRG./BRGS.	BEARING /BEARINGS	PVC	POLYVINYL CHLORIDE
		PVT	POINT OF VERTICAL CURVATURE
C.B./CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
OC	CENTER TO CENTER	PROP.	PROPOSED
C.J./CONST. JT.	CONSTRUCTION JOINT	RCP	REINFORCED CONCRETE PIPE
CLR.	CLEARANCE, CLEAR COVER	RCPR	REINFORCED CONCRETE PIPE WITH RUBBER GASKET
CL	CLASS	RAD./R	RADIUS
CL	CENTERLINE	REQD./REQ'D.	REQUIRED
COL	COLUMN	REF.	REFERENCE
COMP.	COMPRESSION	REINF.	REINFORCEMENT
CONC.	CONCRETE	RT/RT.	RIGHT
CONSTR./CONST.	CONSTRUCTION	RDWY.	ROADWAY
CONT.	CONTINUOUS	R.O.W./RW	RIGHT-OF-WAY
CONTR.	CONTROL, CONTRACTION	SAN.	SANITARY
C.S.	CURVE TO SPIRAL	S.B.L.	SOUTH BOUND LANES
		S.C.	SPIRAL TO CURVE
D	DEGREE OF CURVATURE	S.D.	STORM DRAIN
DIA./°	DIAMETER	SECT.	SECTION
DIAPH.	DIAPHRAGM	S.E.	SOUTHEAST
DIM.	DIMENSION	SEW.	SEWER
E.F.	EACH FACE	SHT./SHTS.	SHEET/SHEETS
EA.	EACH	SIM.	SIMILAR
E.J./EXP. JT.	EXPANSION JOINT	SPA.	SPACES, SPACING
EL./ELEV.	ELEVATION	SQ.	SQUARE/SQUARES
ENT.	ENTRANCE	SHLDR	SHOULDER
EQ.	EQUAL	S.T.	SPIRAL TO TANGENT
EX./EXIST.	EXISTING	ST.	STREET
EXP.	EXPANSION	STA.	STATION
EXT.	EXTERIOR	STD.	STANDARD
ELECT.	ELECTRICAL	STM.	STORM
EP	EDGE OF PAVEMENT	STRUCT.	STRUCTURAL
		S	SURVEY LINE
F.F.	FAR FACE	S.W./SW	SOUTHWEST
F.H.	FIRE HYDRANT	SW	SIDEWALK
FT.	FEET	SYMM.	SYMMETRICAL
FIN.	FINISHED	T	TANGENT
FIX.	FIXED	T.C.	TOP OF CURB
FL	FLOOR	TEMP.	TEMPORARY
		THRU	THROUGH
GALV.	GALVANIZED	T.P.	TURNING POINT
GA.	GAUGE	T.S.	TANGENT TO SPIRAL
G.V.	GAS VALVE	TYP./TYP	TYPICAL
		T.W.	TOP OF WALL
HC	HANDICAPPED	UG/GUG	UNDERGROUND
H.S.	HIGH STRENGTH	UGE	UNDERGROUND ELECTRICAL LINE
HT.	HEIGHT	UGT	UNDERGROUND TELEPHONE LINE
HORIZHOR	HORIZONTAL	U.N.O.	UNLESS NOTED OTHERWISE
		VAR.	VARIES
IN.	INCH	VERT.	VERTICAL
INT.	INTERIOR	W	WITH
INV.	INVERT	WO	WITHOUT
INTERM.	INTERMEDIATE	W.W.F./WWF	WELDED WIRE FABRIC
LC	LENGTH OF CURVE, LENGTH		
LOD	LIMIT OF DISTURBANCE		
LP	LIGHT POLE		
LT./LTL	LEFT		
LONG.	LONGITUDINAL		
LVC	LENGTH OF VERTICAL CURVE		
MAT'L.	MATERIAL		
MED.	MEDIAN		
MIN.	MINIMUM		
MAX.	MAXIMUM		
MH./M.H.	MANHOLE		
M.P.H./MPH	MILES PER HOUR		
MUTCOD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES		
NA	NOT APPLICABLE		
N.B.L.	NORTH BOUND LANES		
N.E./NE	NORTHEAST		
N.F.	NEAR FACE		
N.I.C.	NOT IN CONTRACT		
NO./#	NUMBER		
N.T.S.	NOT TO SCALE, NO SCALE		
N.W./NW	NORTHWEST		

SCALE: NTS



GREENHORNE & O'MARA
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NO.	DESCRIPTION	NAME	DATE

SYM-1

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

**STANDARD SYMBOLS
AND ABBREVIATIONS**

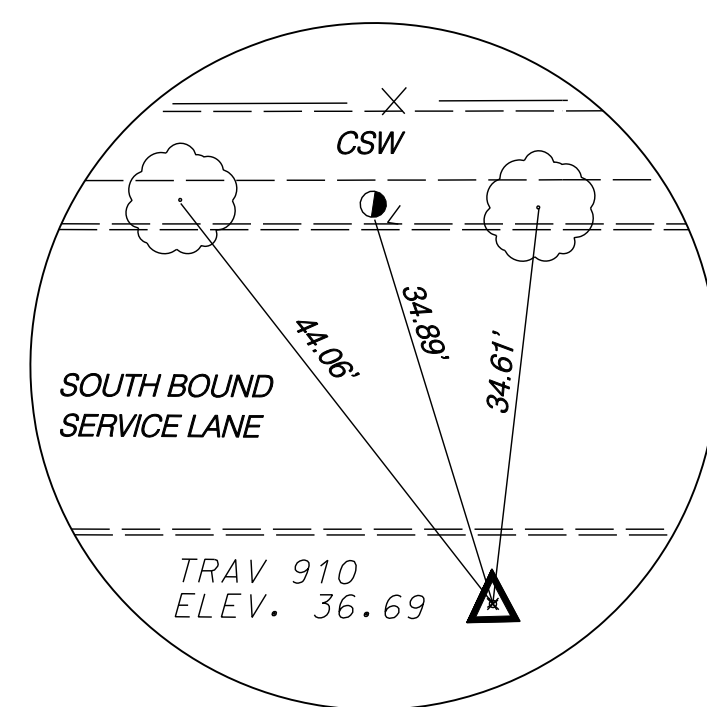
PROJECT ENG.	LRH
DESIGNED BY	LRH
CHECKED BY	SJS
DRAWN BY	LMM
PROJECT MGR.	LRH
DIVISION CHIEF	
DATE	
FILE	

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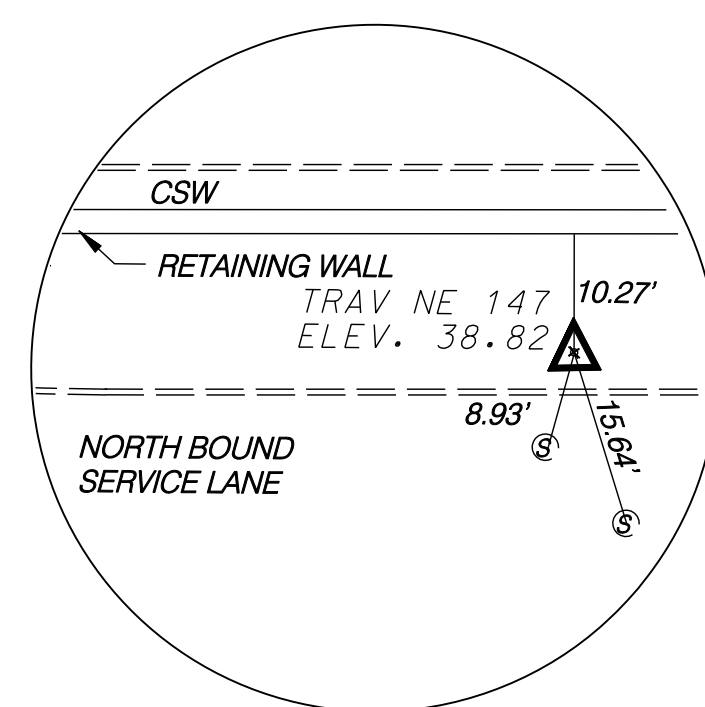
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	6	242

NOTES:

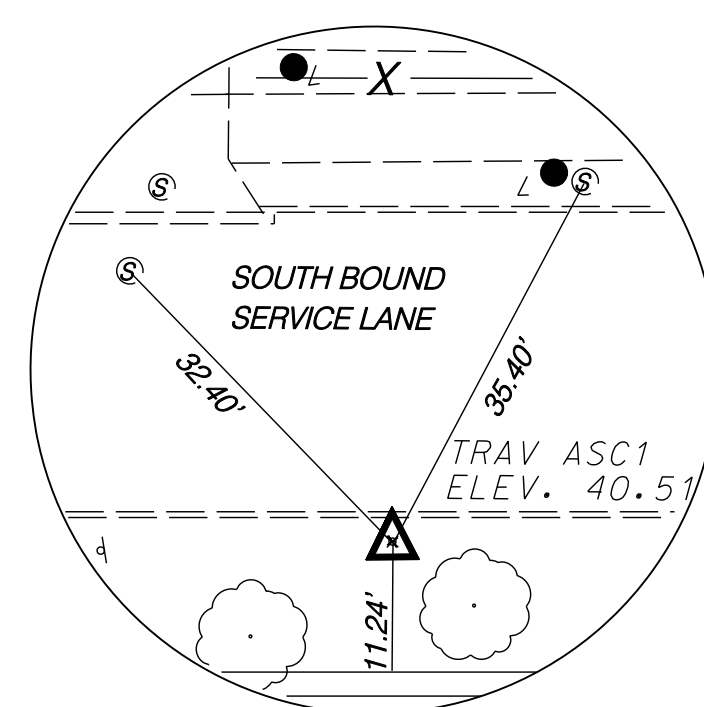
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- THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.



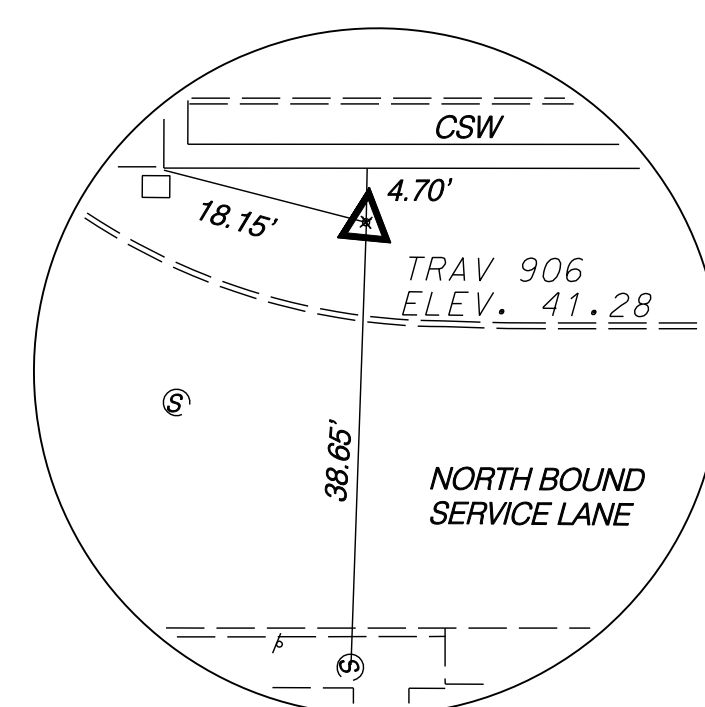
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REBAR
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E 1,330,603.0393
ELEV 36.69



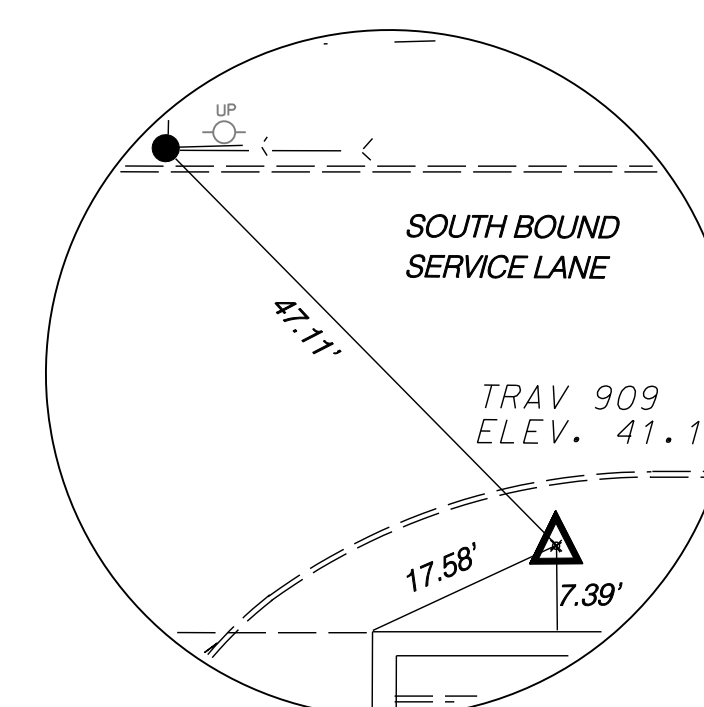
TRAV NE 147
BRASS DISC
N 453,199.9830
E 1,330,849.4480
ELEV 38.82



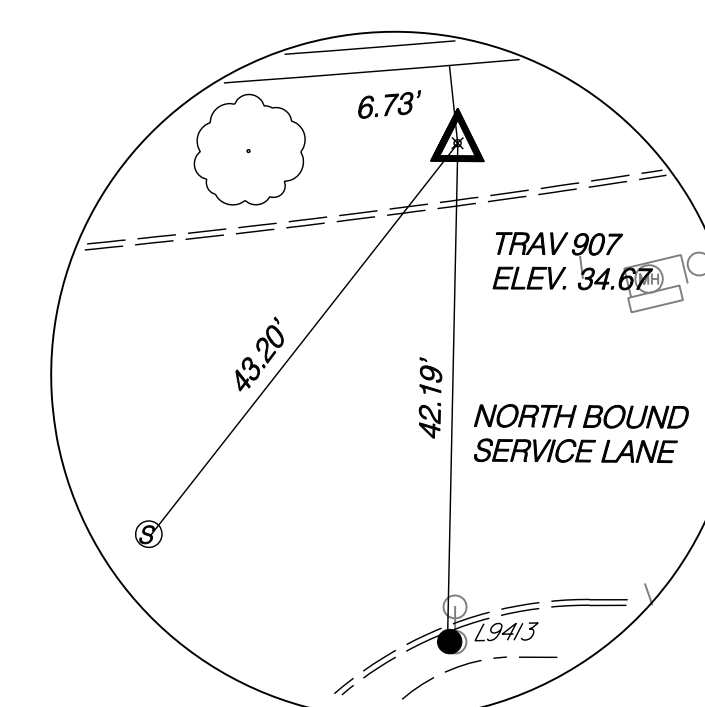
TRAV ASC 1
REBAR W/CAP
N 453,509.5660
E 1,330,932.2770
ELEV 40.51



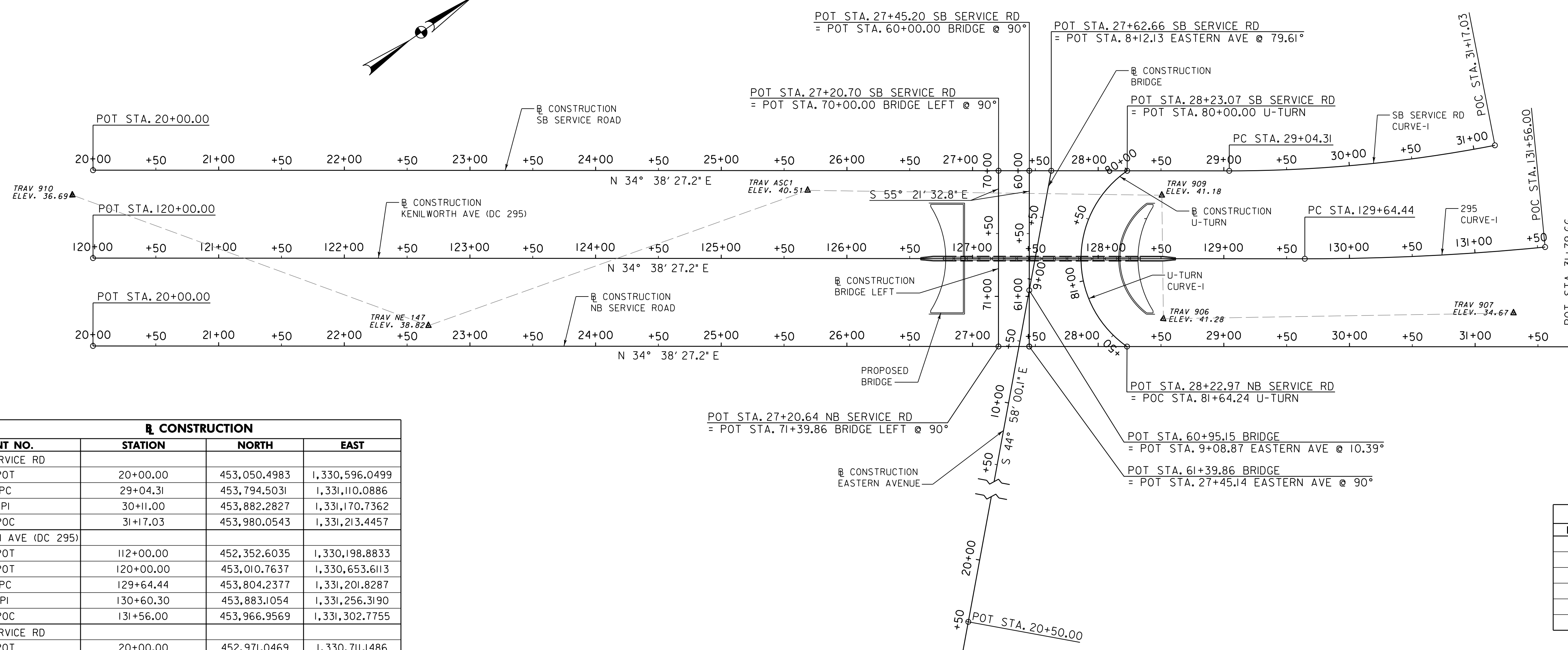
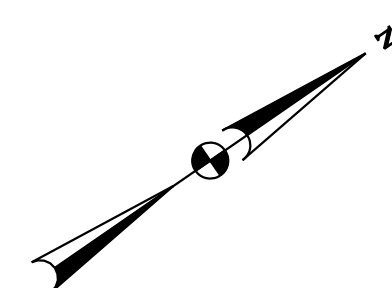
TRAV 906
REBAR
N 453,684.4924
E 1,331,177.2275
ELEV 41.28



TRAV 909
REBAR
N 453,739.2830
E 1,331,095.6260
ELEV 41.18



TRAV 907
REBAR
N 453,916.4852
E 1,331,331.6832
ELEV 34.67



CONSTRUCTION			
POINT NO.	STATION	NORTH	EAST
SB SERVICE RD			
POT	20+00.00	453,050.4983	1,330,596.0499
PC	29+04.31	453,794.5031	1,331,110.0886
PI	30+11.00	453,882.2827	1,331,170.7362
POC	31+17.03	453,980.0543	1,331,213.4457
KENILWORTH AVE (DC 295)			
POT	112+00.00	452,352.6035	1,330,198.8833
POT	120+00.00	453,010.7637	1,330,653.6113
PC	129+64.44	453,804.2377	1,331,201.8287
PI	130+60.30	453,883.1054	1,331,256.3190
POC	131+56.00	453,966.9569	1,331,302.7755
NB SERVICE RD			
POT	20+00.00	452,971.0469	1,330,711.1486
POT	31+79.66	453,941.5880	1,331,381.7030
EASTERN AVENUE			
POT	8+12.13	453,677.9582	1,331,029.5668
POT	20+50.00	452,802.1434	1,331,904.3642
BRIDGE			
POT	60+00.00	453,663.6007	1,331,019.6471
POT	61+39.86	453,584.1011	1,331,134.7125
BRIDGE LEFT			
POT	70+00.00	453,643.4438	1,331,005.7205
POT	71+39.86	453,563.9442	1,331,120.7860
U-TURN			
PC	80+00.00	453,727.6643	1,331,063.9092
PI	81+23.01	453,604.6550	1,331,063.8791
POC	82+64.24	453,648.1291	1,331,178.9499

POINT NO.	TRAVERSE LINES	
	BEARING	DISTANCE
910	S 54° 43' 56.92" W	301.8357'
147	S 14° 58' 30.21" W	320.4384'
ASC1	S 35° 24' 30.23" W	281.8821'
909	S 56° 7' 21.65" E	98.3176'
906	S 33° 39' 19.09" W	278.7095'
907		

POINT NO.	TRAVERSE POINTS		
	NORTH	EAST	ELEVATION
ASC1	453,509.5660	1,330,932.2770	40.51
147	453,199.9830	1,330,849.4480	38.82
906	453,684.4924	1,331,177.2275	41.28
907	453,916.4852	1,331,331.6832	34.67
909	453,739.2830	1,331,095.6260	41.18
910	453,025.7161	1,330,603.0393	36.69

CURVE DATA									
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD	BACK BEARING	AHEAD BEARING
SB SERVICE RD CURVE-I	11° 02' 37.62" LT	5° 11' 29.69"	1,103.63'	106.69'	212.72'	5.15'	212.40'	N 34° 38' 27.23" E	N 23° 35' 49.61" E
295 CURVE-I	5° 39' 10.68" LT	2° 57' 03.32"	1,941.62'	95.86'	191.57'	2.37'	191.49'	N 34° 38' 27.23" E	N 28° 59' 16.55" E
U-TURN CURVE-I	110° 42' 38.56" LT	67° 24' 24.48"	85.00'	123.01'	164.24'	64.52'	139.86'	S 0° 00' 50.43" W	N 69° 18' 11.87" E



SCALE: 1" = 50'



GREENHORNE & O'MARA
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

GS-01

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

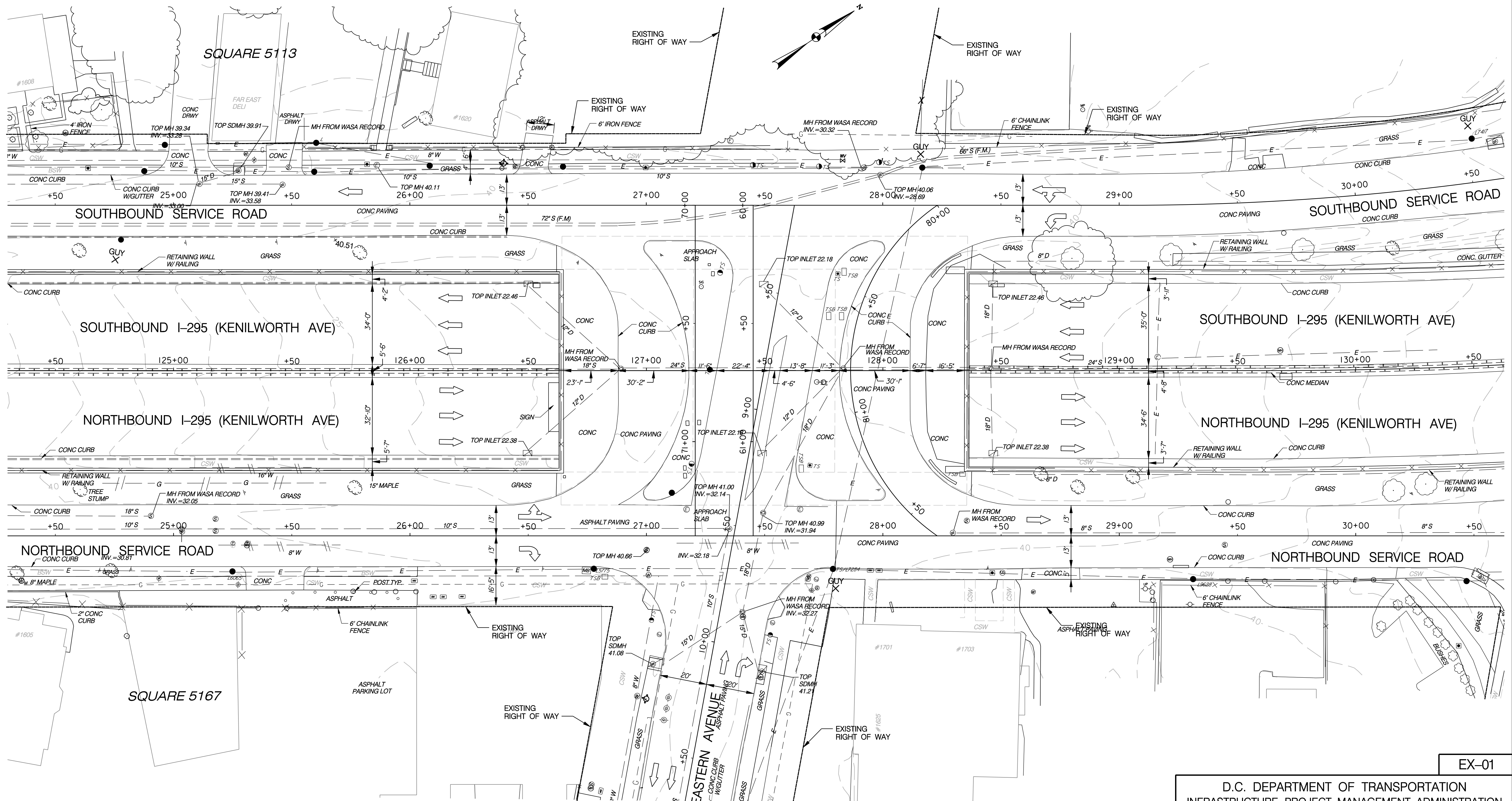
GEOMETRIC LAYOUT

PROJECT ENG. L.R.H.
DESIGNED BY L.R.H.
CHECKED BY S.J.S.
DRAWN BY L.M.M.
PROJECT MGR. L.R.H.

DIVISION CHIEF

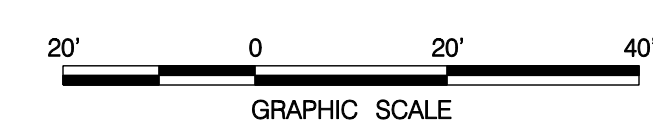
DATE _____
FILE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	7	242



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 Tuesday, April 28, 2009 AT 02:22 PM
 SPL1.DRW\$\$.s

NOTES:
 ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
 THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.



SCALE: 1" = 20'


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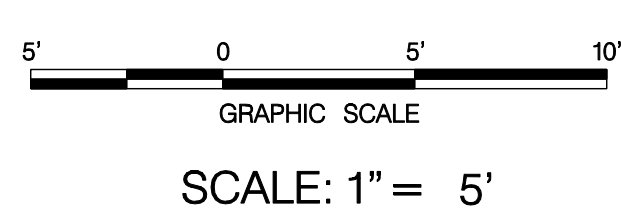
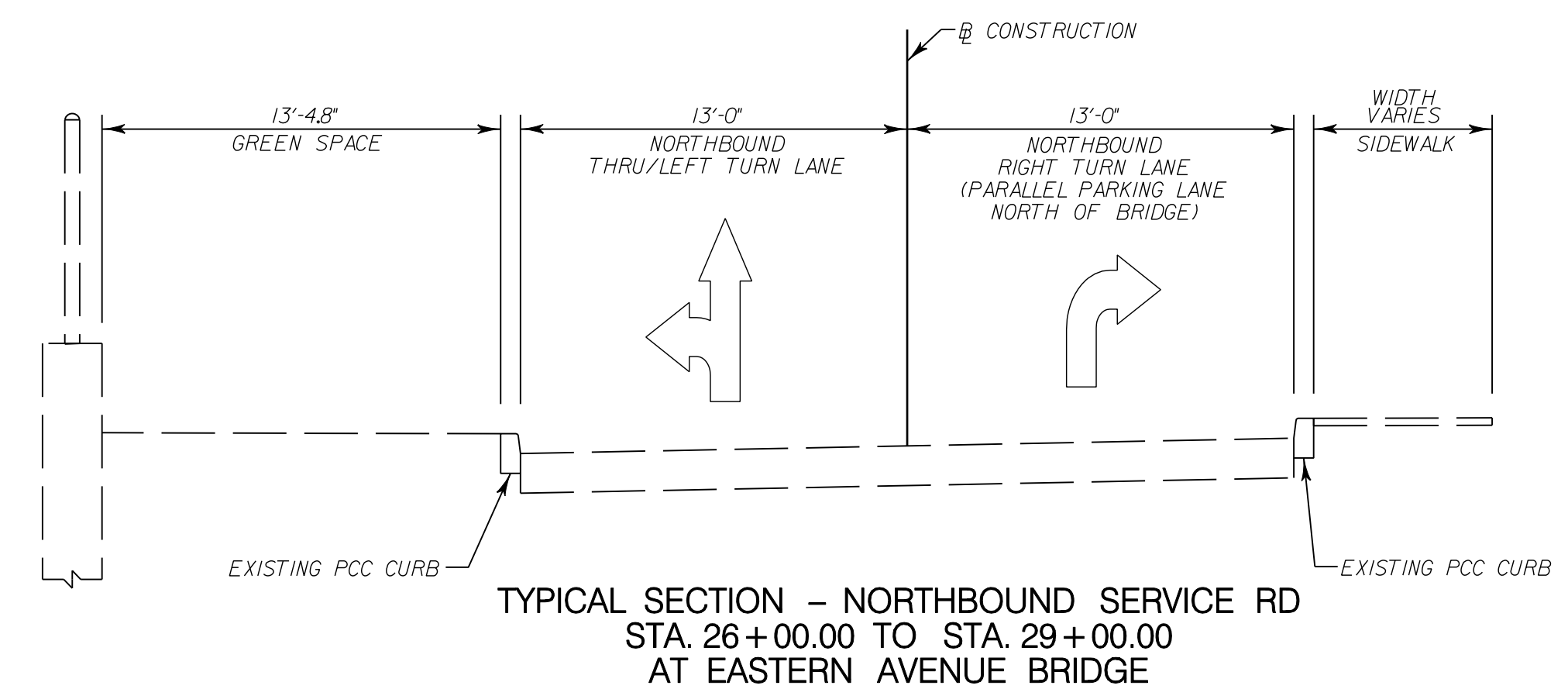
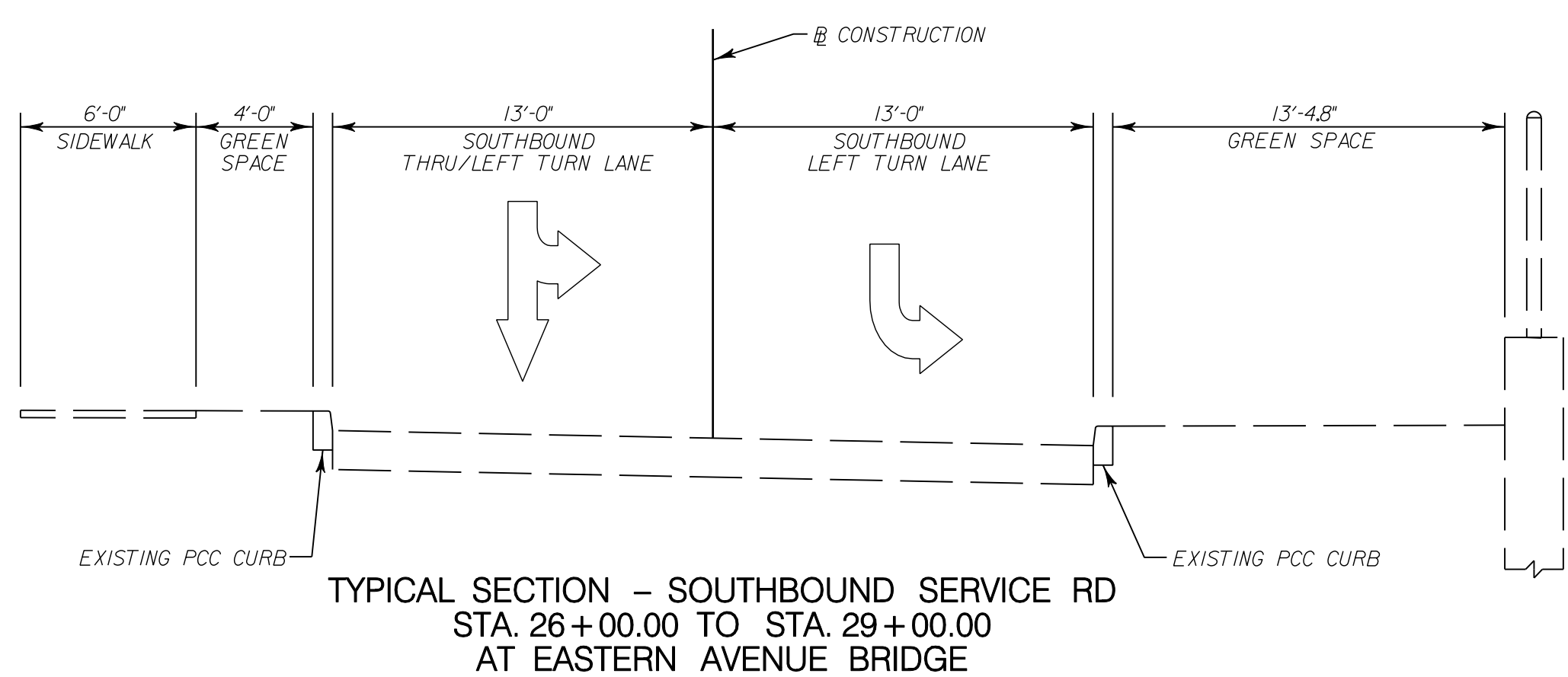
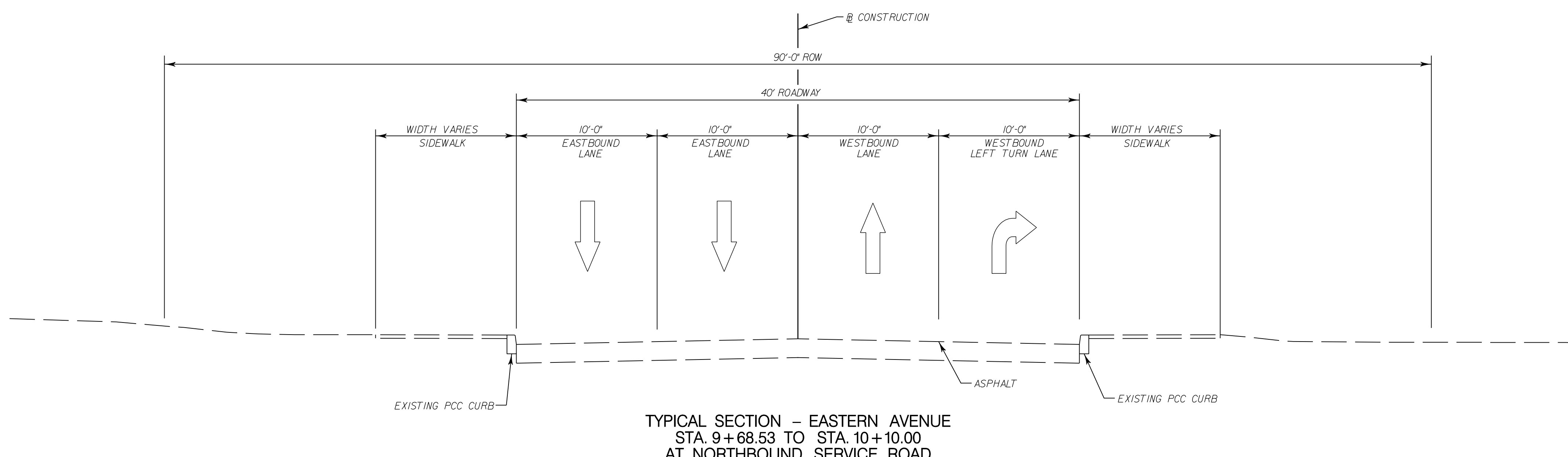
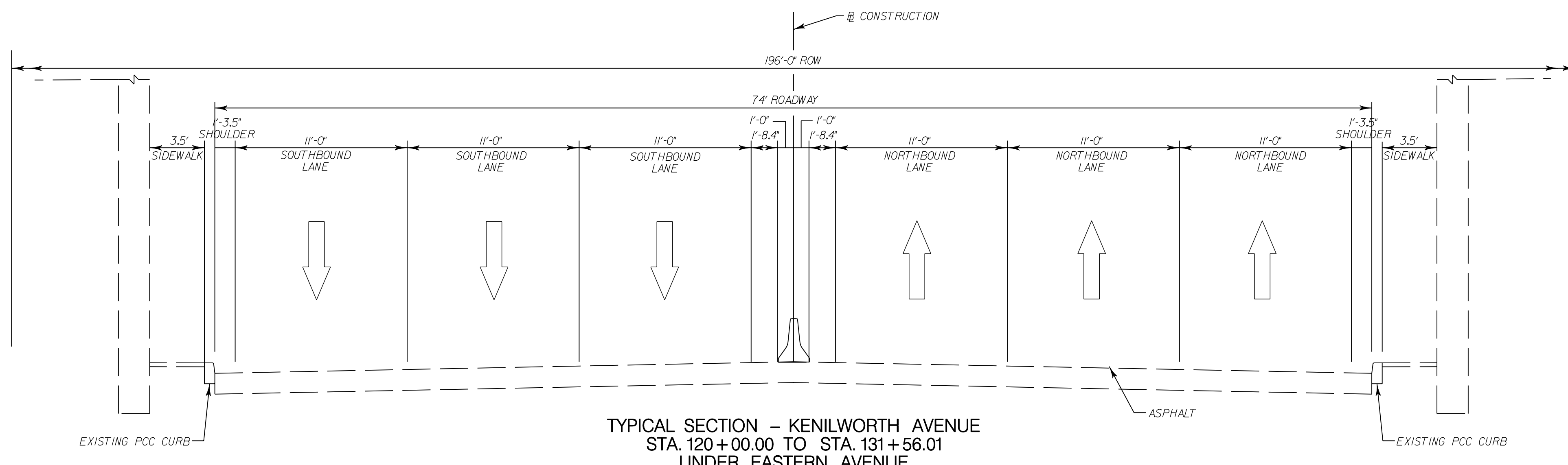
NO.	DESCRIPTION	NAME	DATE

EX-01
 D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

EXISTING CONDITIONS

PROJECT ENG.	LRH
DESIGNED BY	LRH
CHECKED BY	SJS
DRAWN BY	LMM
PROJECT MGR.	LRH
DIVISION CHIEF	
DATE	
FILE	



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CONSULTING ENGINEERS
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

TS-01

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

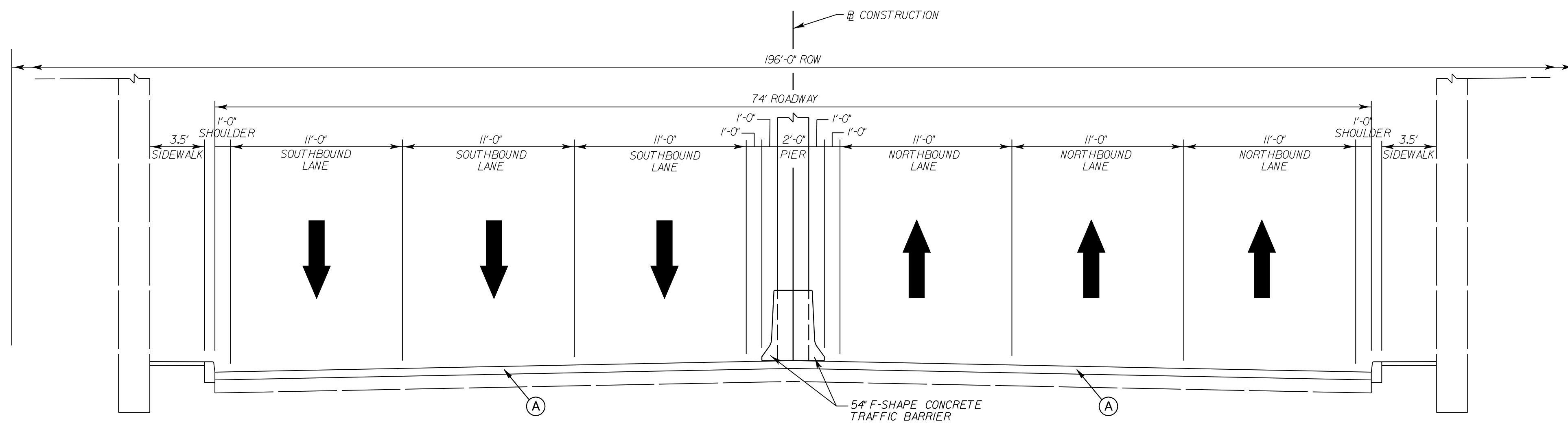
**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

PROJECT ENG. <u>LRH</u>	DESIGNED BY <u>LRH</u>
CHECKED BY <u>SJS</u>	DRAWN BY <u>LMM</u>
PROJECT MGR. <u>LRH</u>	DIVISION CHIEF

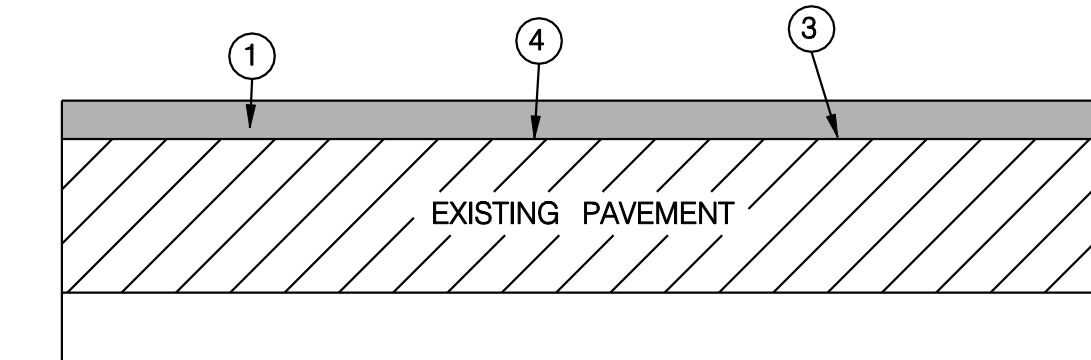
EXISTING TYPICAL SECTIONS

DATE _____
FILE _____

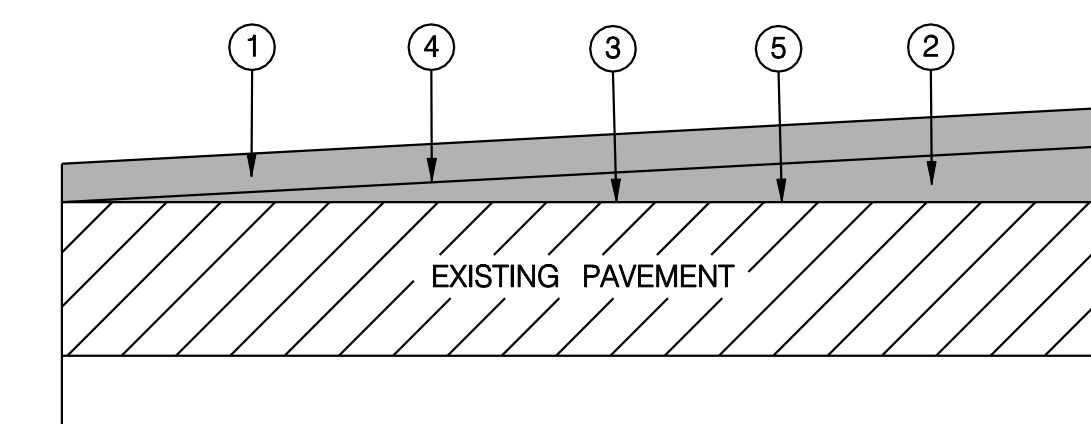
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 \$PLTDRV\$\$



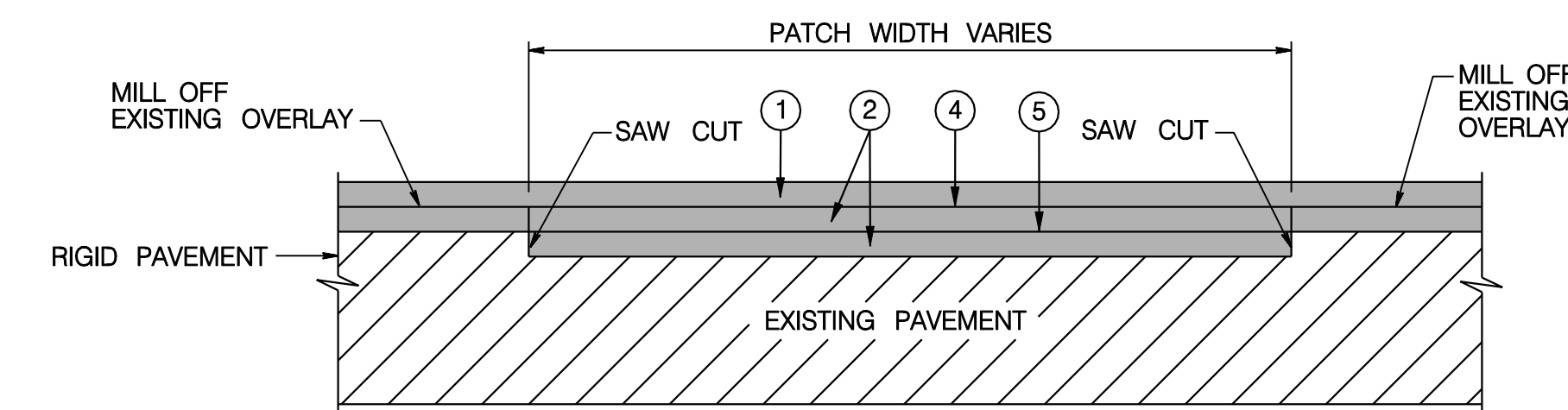
TYPICAL SECTION - KENILWORTH AVENUE
SOUTHBOUND STA. 117+75.00 TO CSX RAILROAD CROSSING
NORTHBOUND STA. 112+00.00 TO STA. 135+50.00



PAVEMENT SECTION A
MILLING AND OVERLAY
NOT TO SCALE



PAVEMENT SECTION B
ASPHALT WEDGE & LEVEL
NOT TO SCALE



PAVEMENT SECTION C
PORTLAND CEMENT CONCRETE PAVEMENT REPAIR DETAIL
NOT TO SCALE

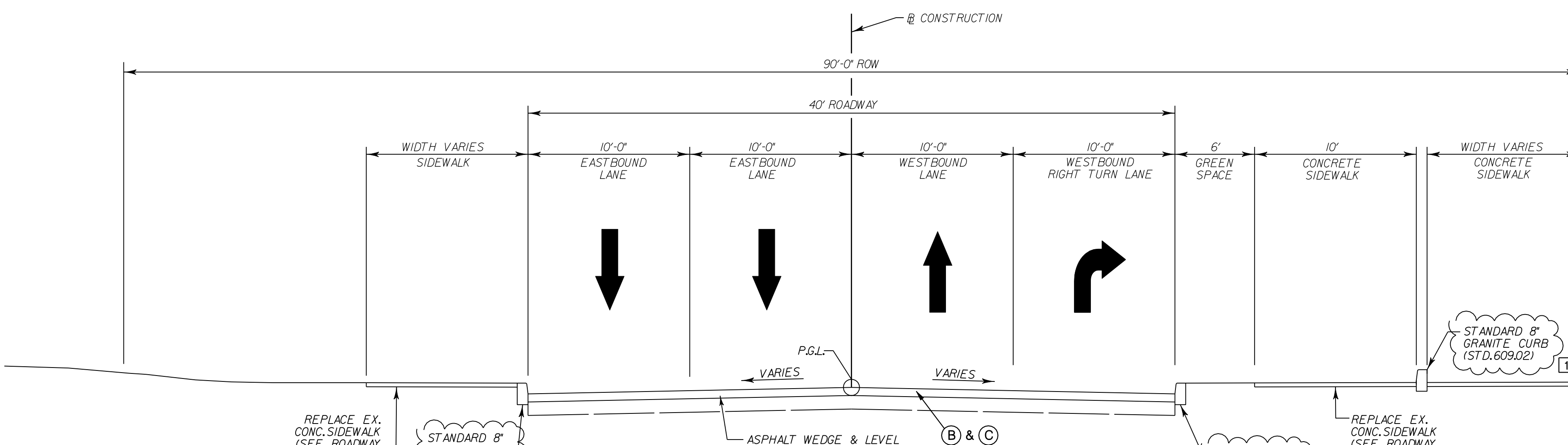
NOTES FOR PCC PAVEMENT REPAIR

1. SAW CUT A MINIMUM OF 2 INCHES AROUND AREA TO BE REPAIRED.
2. REMOVE ALL LOOSE AND/OR DAMAGED PCC PAVEMENT.
3. FILL REPAIR AREA EVEN WITH TOP OF EXISTING PCC PAVEMENT USING 19.0 mm HMA BASE COURSE PG 64-22.
4. INSTALL PAVEMENT REINFORCING FABRIC FOR CRACK REPAIR TO ANY TRANSVERSE AND LONGITUDINAL JOINTS, PATCHING AND BRIDGE DECKS.
5. INSTALL PAVEMENT REINFORCING FABRIC FOR ASPHALT OVERLAY TO COVER ENTIRE REPAIR AREA PRIOR TO WEDGE & LEVEL.

PAVEMENT LEGEND

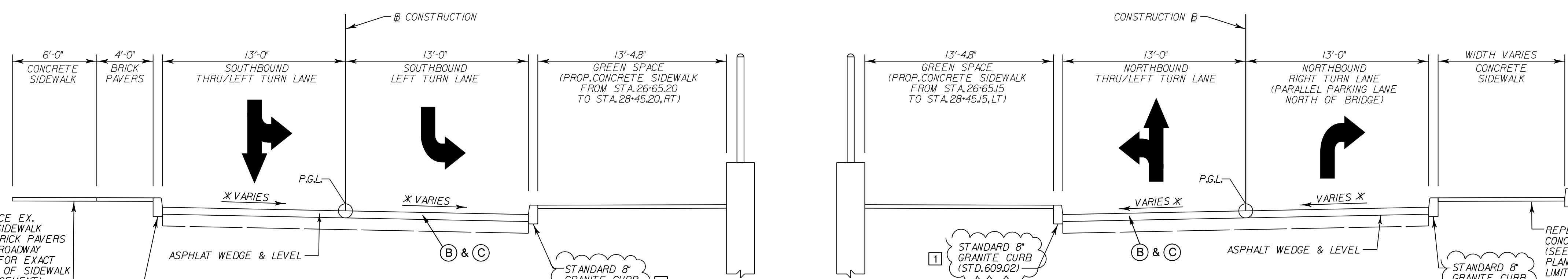
- 1 2" HOT MIX ASPHALT, 9.5 MM SURFACE COURSE, P.G. 64-22
- 2 VARIABLE DEPTH HOT MIX ASPHALT 19.0 MM BASE COURSE, P.G. 64-22 FOR WEDGE & LEVEL (4 INCH LIFTS)
- 3 PAVEMENT SURFACE AFTER MILLING OF EXISTING ASPHALT, 2" DEPTH
- 4 TACK COAT
- 5 PAVEMENT REINFORCING FABRIC FOR ASPHALT OVERLAY

TS-02



TYPICAL SECTION - EASTERN AVENUE
STA. 9+68.53 TO STA. 10+10.00
AT NORTHBOUND SERVICE ROAD

* SEE CROSS SECTION SHEETS FOR PROPOSED ROADWAY SLOPES



TYPICAL SECTION - SOUTHBOUND SERVICE RD
STA. 26+00.00 TO STA. 29+00.00

TYPICAL SECTION - NORTHBOUND SERVICE RD
STA. 26+00.00 TO STA. 29+00.00

NOTE:
Proof rolling of the existing road bed soils will be required prior to replacement of the soils base materials. Unstable roadbed soils detected during proof rolling shall be removed and replaced with approved soils base material. The depth of the undercut shall be determined in the field at the time of construction. The soils base material shall be compacted to 95 percent of the maximum dry density as determined by AASHTO T-180 method D.



SCALE: 1" = 5'



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NO.	DESCRIPTION	NAME	DATE
1	CHANGE PCC CURB TO GRANITE CURB	LH	06/22/09

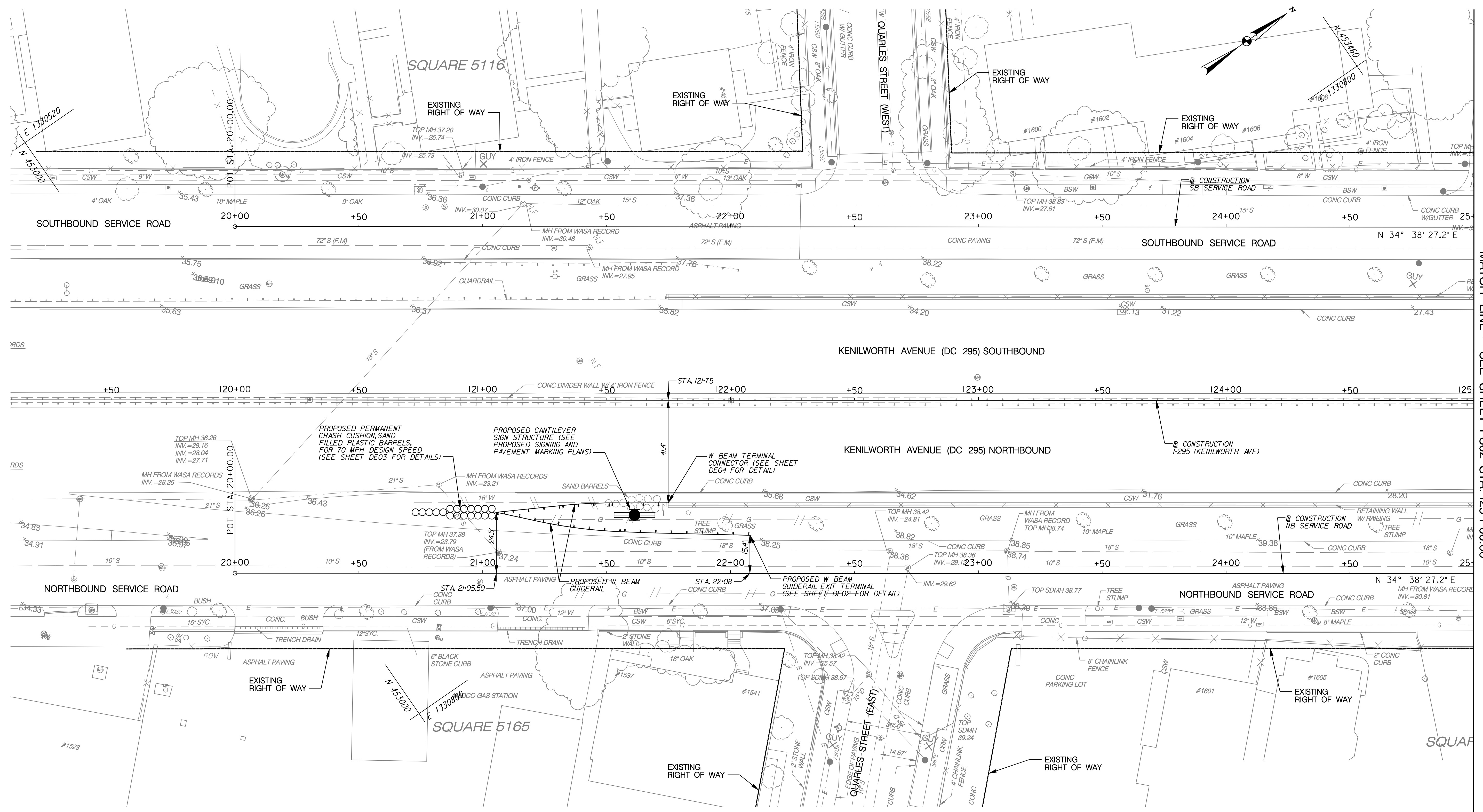
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROPOSED TYPICAL SECTIONS

PROJECT ENG. _____	LRH
DESIGNED BY _____	LRH
CHECKED BY _____	SJS
DRAWN BY _____	LMM
PROJECT MGR. _____	LRH
DIVISION CHIEF	
DATE _____	
FILE _____	

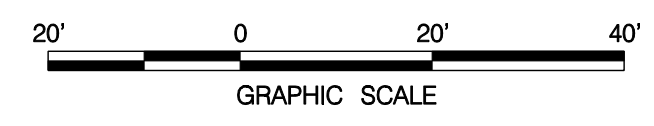
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 Monday, June 22, 2009 AT 01:59 PM
 SPL:DR/S



MATCH LINE - SEE SHEET PS02 STA. 125 + 00.00

PS-01

- NOTES:**
- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
 - THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.
 - ONCE CONSTRUCTION OF THE PROPOSED BRIDGE REPLACEMENT AND TEMPORARY MOT PHASES ARE COMPLETE, ALL TRAVEL LANES AND SHOULDERS ALONG NORTHBOUND KENILWORTH AVE FROM STATION 112+00 TO STATION 135+50 AND ALONG SOUTHBOUND KENILWORTH AVE FROM STATION 117+75 TO THE CSX RAILROAD CROSSING SHALL BE MILLED AND OVERLAYED AS SHOWN ON SHEET TS-02.



SCALE: 1" = 20'

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ROADWAY PLAN

PROJECT ENG.	LRH
DESIGNED BY	SJS
DRAWN BY	LMM
PROJECT MGR.	LRH
DIVISION CHIEF	
DATE	
FILE	



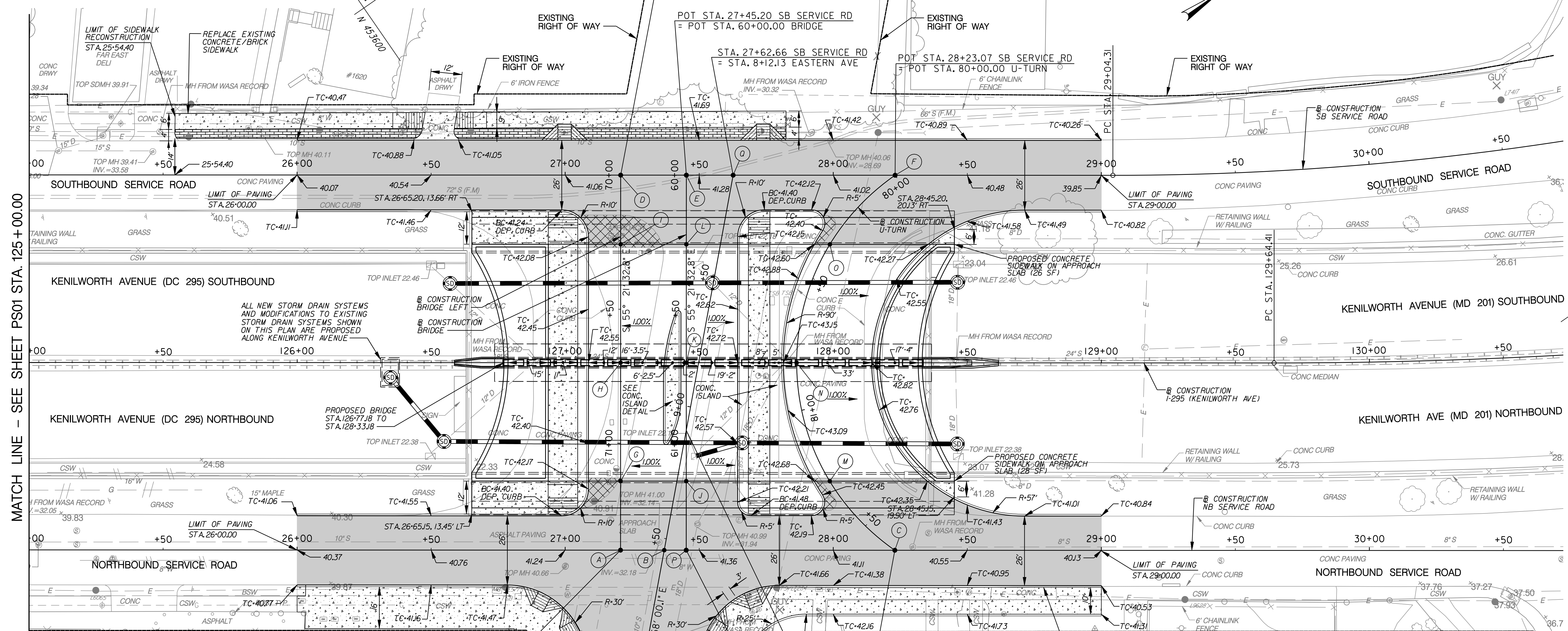
GREENHORNE & O'MARA
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6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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Tue 03/24/2009 11:28:20 AM AT 02:42 PM SPL DRS

NOTES:

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- THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.
- BEFORE PLACING THE ULTIMATE ASPHALT OVERLAY, ALL EXISTING PCC PAVEMENT SHALL BE REPAIRED PER THE DETAILS SHOWN ON SHEET DE-02.
- ONCE CONSTRUCTION OF THE PROPOSED BRIDGE REPLACEMENT AND TEMPORARY MOT PHASES ARE COMPLETE, ALL TRAVEL LANES AND SHOULDERS ALONG NORTHBOUND KENILWORTH AVE FROM STATION 112+00 TO STATION 135+50 AND ALONG SOUTHBOUND KENILWORTH AVE FROM STATION 117+75 TO THE CSX RAILROAD CROSSING SHALL BE MILLED AND OVERLAYED AS SHOWN ON SHEET TS-02.



MATCH LINE - SEE SHEET PS01 STA. 125 + 00.00

POINT	BASILINE	STATION	ELEVATION
A	NB SERVICE RD	27+20.64	41.33
	BRIDGE LEFT	71+39.86	
B	EASTERN AVE	9+54.32	41.36
	NB SERVICE RD	27+36.96	
C	NB SERVICE RD	28+22.97	40.87
	U-TURN	81+64.24	
D	SB SERVICE RD	27+20.70	41.21
	BRIDGE LEFT	70+00.00	
E	SB SERVICE RD	27+45.20	41.28
	BRIDGE	60+00.00	
F	SB SERVICE RD	28+23.07	40.79
	U-TURN	80+00.00	
G	BRIDGE LEFT	71+12.94	41.66
H	BRIDGE LEFT	70+69.94	42.00
I	BRIDGE LEFT	70+26.94	41.57
J	BRIDGE	61+12.94	41.90
K	BRIDGE	60+69.94	42.25
L	BRIDGE	60+26.94	41.82
M	U-TURN	81+27.23	41.97
N	U-TURN	80+82.15	42.44
O	U-TURN	80+37.06	41.88
P	NB SERVICE RD	27+45.14	41.37
	BRIDGE	61+39.86	
Q	SB SERVICE RD	27+62.66	41.33
	EASTERN AVE	8+12.13	

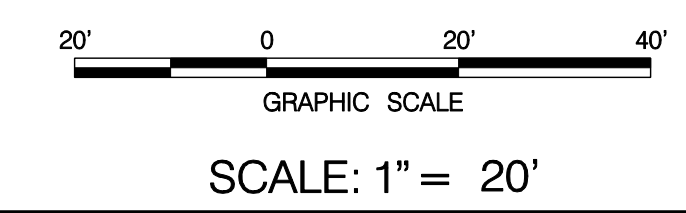
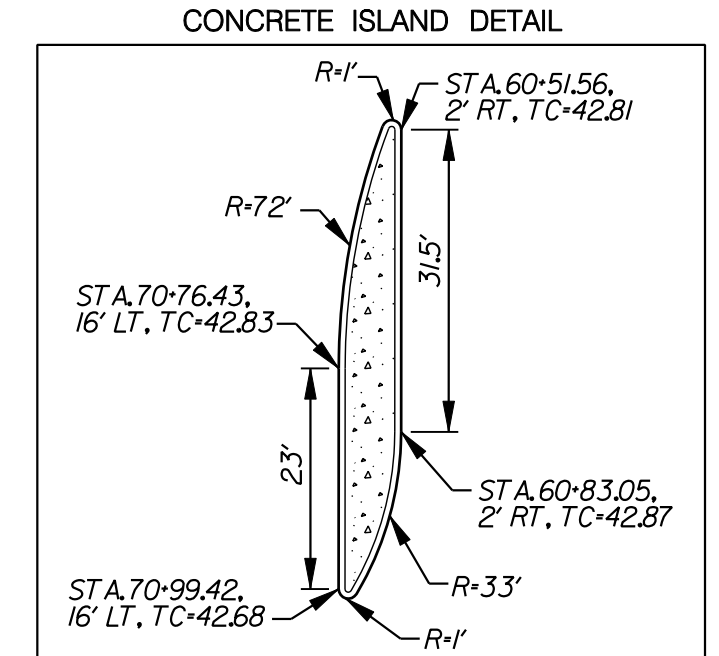
LEGEND

- ASPHALT WEDGE & LEVEL
- CONCRETE SIDEWALK
- BRICK SIDEWALK
- CONCRETE REMOVAL

U-TURN CURVE (1)	295 CURVE (1)	SB SERVICE RD CURVE (1)
PI Sta 81+23.01	PI Sta 130+60.30	PI Sta 30+11.00
Δ = 110° 42' 38.56" (LT)	Δ = 5° 39' 10.68" (LT)	Δ = 11° 02' 37.62" (LT)
Dc = 67° 24' 24.48"	Dc = 2° 57' 03.32"	Dc = 5° 11' 29.69"
L = 164.24'	L = 191.57'	L = 212.72'
T = 123.01'	T = 95.86'	T = 106.69'
R = 85.00'	R = 1,941.62'	R = 1,103.63'
POC Sta 80+00.00	PC Sta 129+64.44	PC Sta 29+04.31
POC Sta 81+64.24	POC Sta 131+56.01	POC Sta 31+17.04

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PS-02

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ROADWAY PLAN

PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH

DIVISION CHIEF

DATE _____
FILE _____

REVISIONS

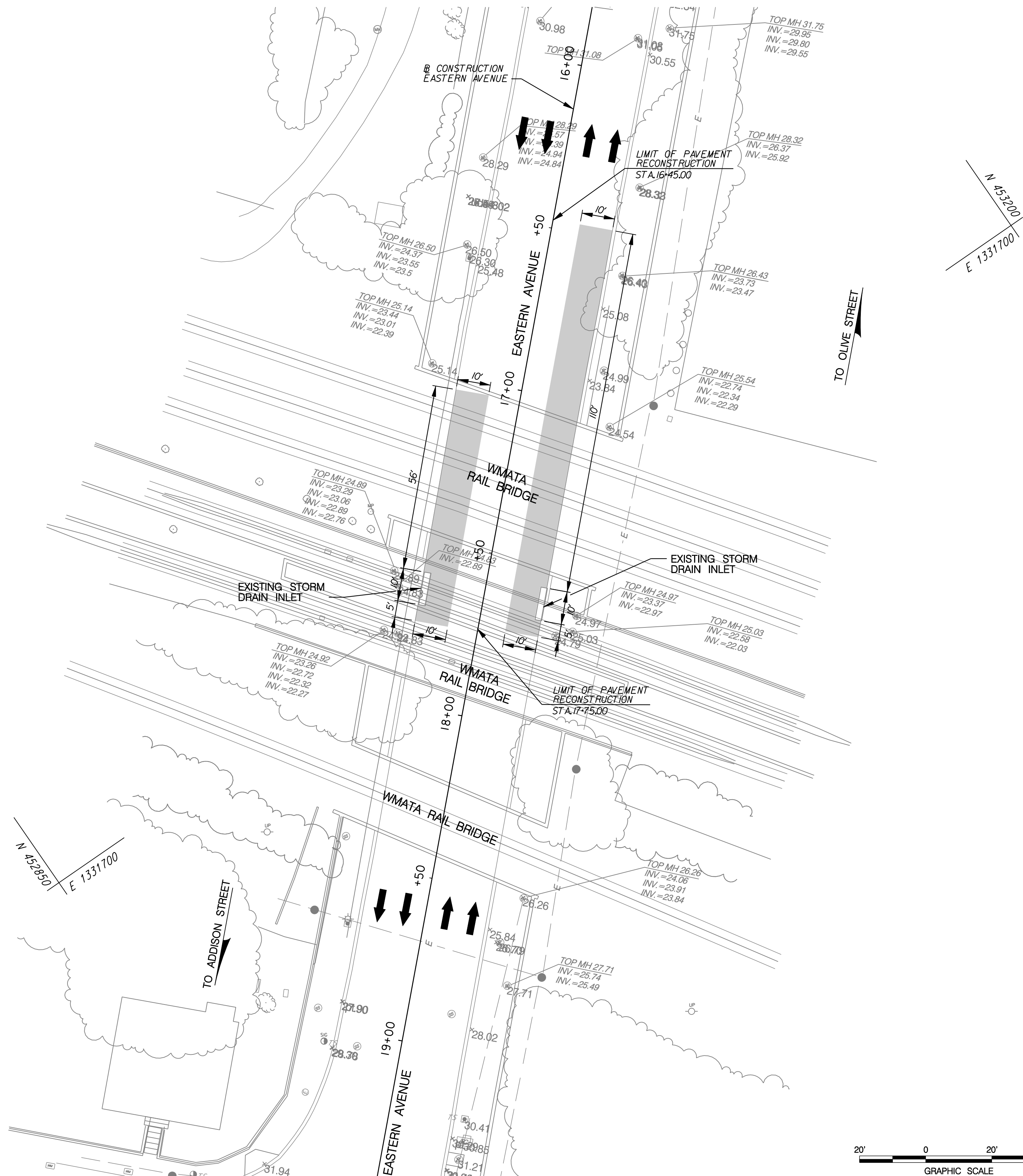
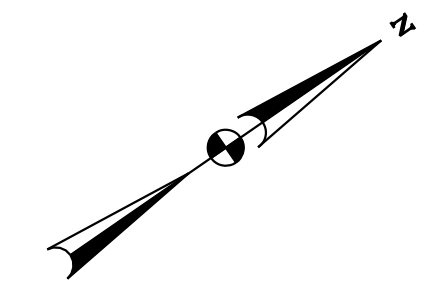
NO.	DESCRIPTION	NAME	DATE

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	12	242

NOTES:

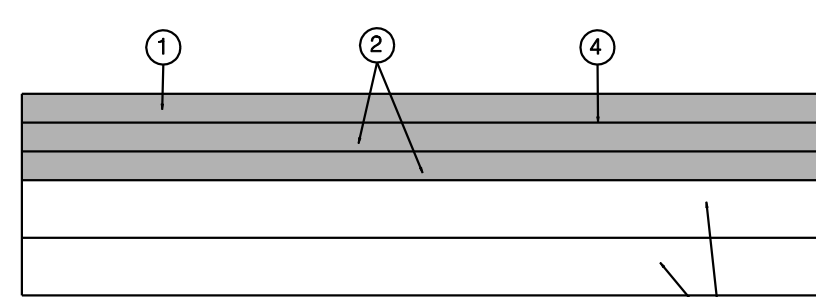
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3. WORK SHOWN ON THIS SHEET SHALL OCCUR AFTER REHABILITATION OF THE EXISTING PUMPING STATION IS COMPLETE.



E 1331500
N 452950

N 453200
E 1331700

N 452950
E 1331700



FULL DEPTH PAVEMENT SECTION

PAVEMENT LEGEND

- 1 2" HOT MIX ASPHALT, 9.5 MM SURFACE COURSE, P.G. 64-22
- 2 2.5" HOT MIX ASPHALT, 19.0 MM BASE COURSE, P.G. 64-22 (TWO LIFTS)
- 3 6" GRADED AGGREGATE BASE COURSE, (CR-6, OR EQUIVALENT) (TWO LIFTS)
- 4 TACK COAT

LEGEND

█ FULL DEPTH REPLACEMENT



SCALE: 1" = 20'

PS-03

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ROADWAY PLAN

PROJECT ENG.	LRH
DESIGNED BY	LRH
CHECKED BY	SJS
DRAWN BY	LMM
PROJECT MGR.	LRH
DIVISION CHIEF	
DATE	
FILE	



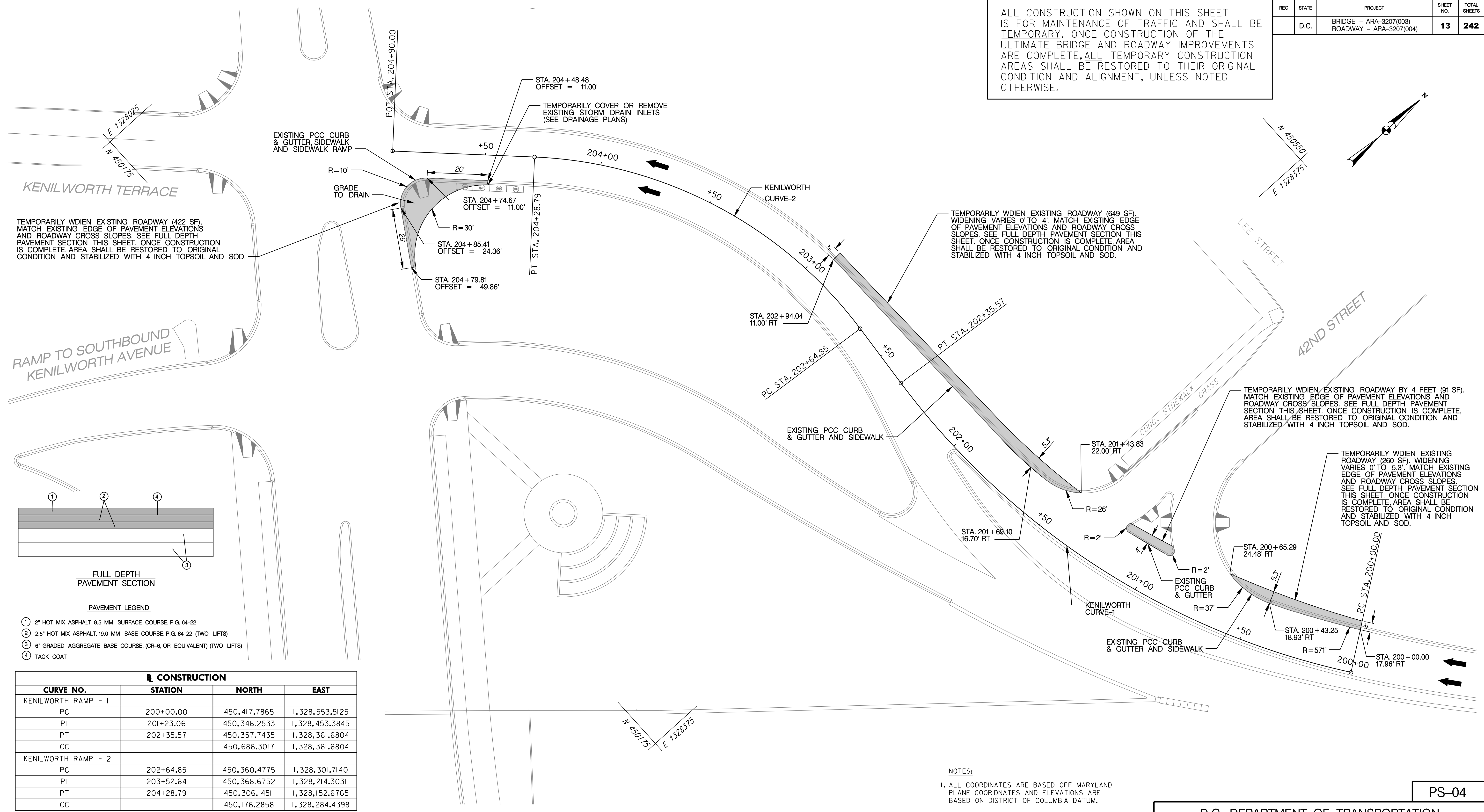
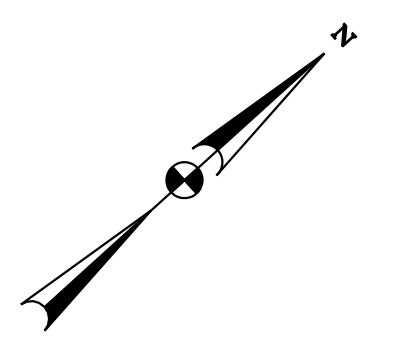
GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	13	242

ALL CONSTRUCTION SHOWN ON THIS SHEET IS FOR MAINTENANCE OF TRAFFIC AND SHALL BE TEMPORARY. ONCE CONSTRUCTION OF THE ULTIMATE BRIDGE AND ROADWAY IMPROVEMENTS ARE COMPLETE, ALL TEMPORARY CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ALIGNMENT, UNLESS NOTED OTHERWISE.

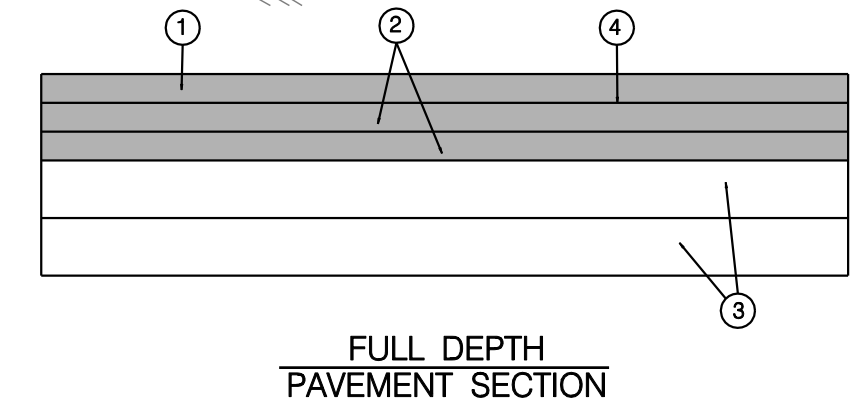


TEMPORARILY WIDEN EXISTING ROADWAY (422 SF). MATCH EXISTING EDGE OF PAVEMENT ELEVATIONS AND ROADWAY CROSS SLOPES. SEE FULL DEPTH PAVEMENT SECTION THIS SHEET. ONCE CONSTRUCTION IS COMPLETE, AREA SHALL BE RESTORED TO ORIGINAL CONDITION AND STABILIZED WITH 4 INCH TOPSOIL AND SOD.

TEMPORARILY WIDEN EXISTING ROADWAY (649 SF). WIDENING VARIES 0' TO 4'. MATCH EXISTING EDGE OF PAVEMENT ELEVATIONS AND ROADWAY CROSS SLOPES. SEE FULL DEPTH PAVEMENT SECTION THIS SHEET. ONCE CONSTRUCTION IS COMPLETE, AREA SHALL BE RESTORED TO ORIGINAL CONDITION AND STABILIZED WITH 4 INCH TOPSOIL AND SOD.

TEMPORARILY WIDEN EXISTING ROADWAY BY 4 FEET (91 SF). MATCH EXISTING EDGE OF PAVEMENT ELEVATIONS AND ROADWAY CROSS SLOPES. SEE FULL DEPTH PAVEMENT SECTION THIS SHEET. ONCE CONSTRUCTION IS COMPLETE, AREA SHALL BE RESTORED TO ORIGINAL CONDITION AND STABILIZED WITH 4 INCH TOPSOIL AND SOD.

TEMPORARILY WIDEN EXISTING ROADWAY (260 SF). WIDENING VARIES 0' TO 5.3'. MATCH EXISTING EDGE OF PAVEMENT ELEVATIONS AND ROADWAY CROSS SLOPES. SEE FULL DEPTH PAVEMENT SECTION THIS SHEET. ONCE CONSTRUCTION IS COMPLETE, AREA SHALL BE RESTORED TO ORIGINAL CONDITION AND STABILIZED WITH 4 INCH TOPSOIL AND SOD.



- PAVEMENT LEGEND**
- ① 2" HOT MIX ASPHALT, 9.5 MM SURFACE COURSE, P.G. 64-22
 - ② 2.5" HOT MIX ASPHALT, 19.0 MM BASE COURSE, P.G. 64-22 (TWO LIFTS)
 - ③ 6" GRADED AGGREGATE BASE COURSE, (CR-6, OR EQUIVALENT) (TWO LIFTS)
 - ④ TACK COAT

R _L CONSTRUCTION			
CURVE NO.	STATION	NORTH	EAST
KENILWORTH RAMP - 1			
PC	200+00.00	450,417.7865	1,328,553.5125
PI	201+23.06	450,346.2533	1,328,453.3845
PT	202+35.57	450,357.7435	1,328,361.6804
CC		450,686.3017	1,328,361.6804
KENILWORTH RAMP - 2			
PC	202+64.85	450,360.4775	1,328,301.7140
PI	203+52.64	450,368.6752	1,328,214.3031
PT	204+28.79	450,306.1451	1,328,152.6765
CC		450,176.2858	1,328,284.4398

CURVE DATA									
CURVE	DELTA	D _c	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD	BACK BEARING	AHEAD BEARING
KENILWORTH-RAMP CURVE-1	40° 54' 01.54" RT	17' 21" 44.49"	330.00'	123.06'	235.57'	22.20'	230.60'	S 54° 27' 26.31" W	N 84° 38' 32.15" W
KENILWORTH-RAMP CURVE-2	50° 46' 28.91" LT	30' 58" 14.49"	185.00'	87.79'	163.94'	19.78'	158.63'	N 84° 38' 32.15" W	S 44° 34' 58.94" W

- NOTES:**
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 - THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.
 - TEMPORARY ROADWAY WIDENING AND CONSTRUCTION SHOWN ON THIS PLAN SHALL BE COORDINATED WITH MAINTENANCE OF TRAFFIC PLANS FOR PHASES 1 AND 2.

PS-04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

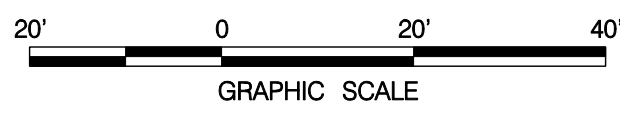
TEMPORARY ROADWAY PLAN

PROJECT ENG.	LRH
DESIGNED BY	LRH
CHECKED BY	SJS
DRAWN BY	MM
PROJECT MGR.	LRH
DIVISION CHIEF	
DATE	
FILE	

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



GREENHORNE & O'MARA
CONSULTING ENGINEERS
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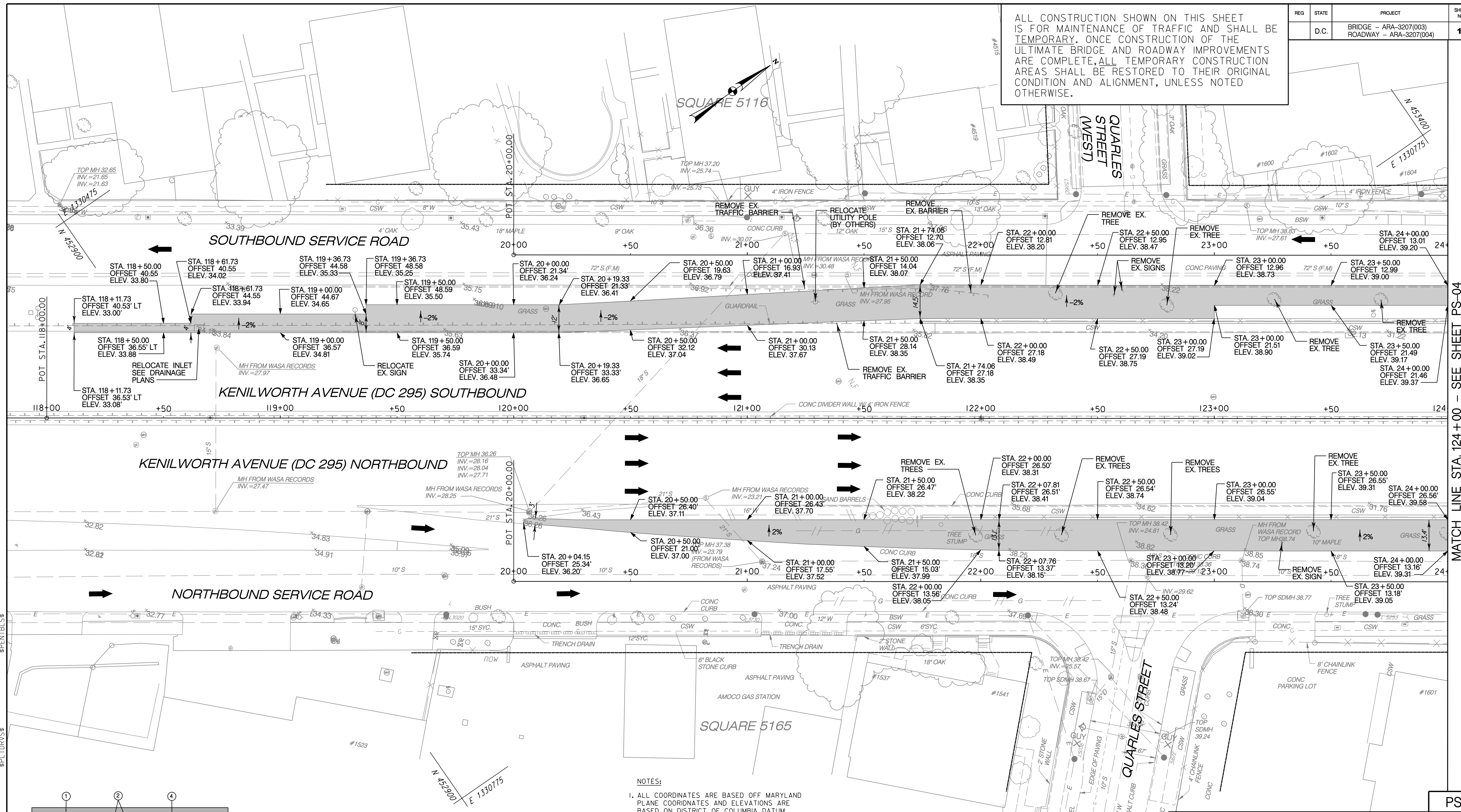


SCALE: 1" = 20'

LEGEND
FULL DEPTH ASPHALT PAVEMENT

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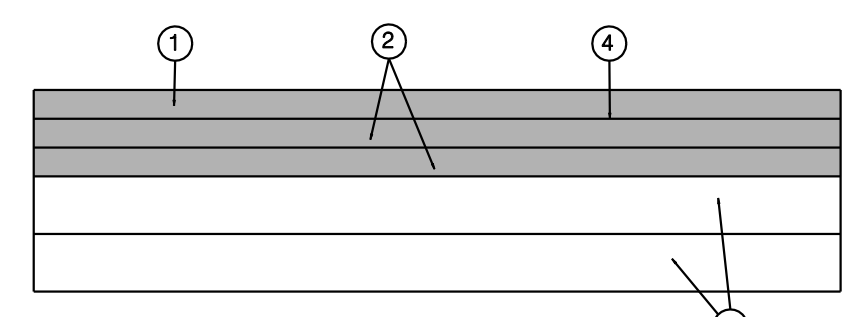
ALL CONSTRUCTION SHOWN ON THIS SHEET IS FOR MAINTENANCE OF TRAFFIC AND SHALL BE TEMPORARY. ONCE CONSTRUCTION OF THE ULTIMATE BRIDGE AND ROADWAY IMPROVEMENTS ARE COMPLETE, ALL TEMPORARY CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ALIGNMENT, UNLESS NOTED OTHERWISE.



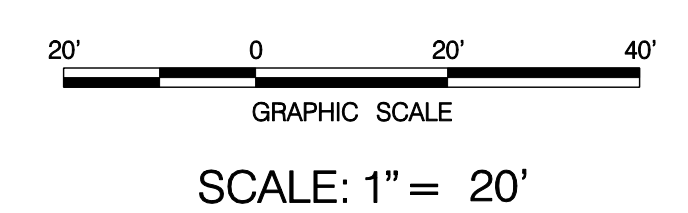
MATCH LINE STA. 124+00 - SEE SHEET PS-04

PS-05

- NOTES:**
- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
 - THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.
 - TEMPORARY ROADWAY WIDENING AND CONSTRUCTION SHOWN ON THIS PLAN SHALL BE COORDINATED WITH MAINTENANCE OF TRAFFIC PLANS FOR PHASES I AND 2.



- PAVEMENT LEGEND**
- 2" HOT MIX ASPHALT, 9.5 MM SURFACE COURSE, P.G. 64-22
 - 2.5" HOT MIX ASPHALT, 19.0 MM BASE COURSE, P.G. 64-22 (TWO LIFTS)
 - 6" GRADED AGGREGATE BASE COURSE, (CR-6, OR EQUIVALENT) (TWO LIFTS)
 - TACK COAT



LEGEND

■ FULL DEPTH ASPHALT PAVEMENT



GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

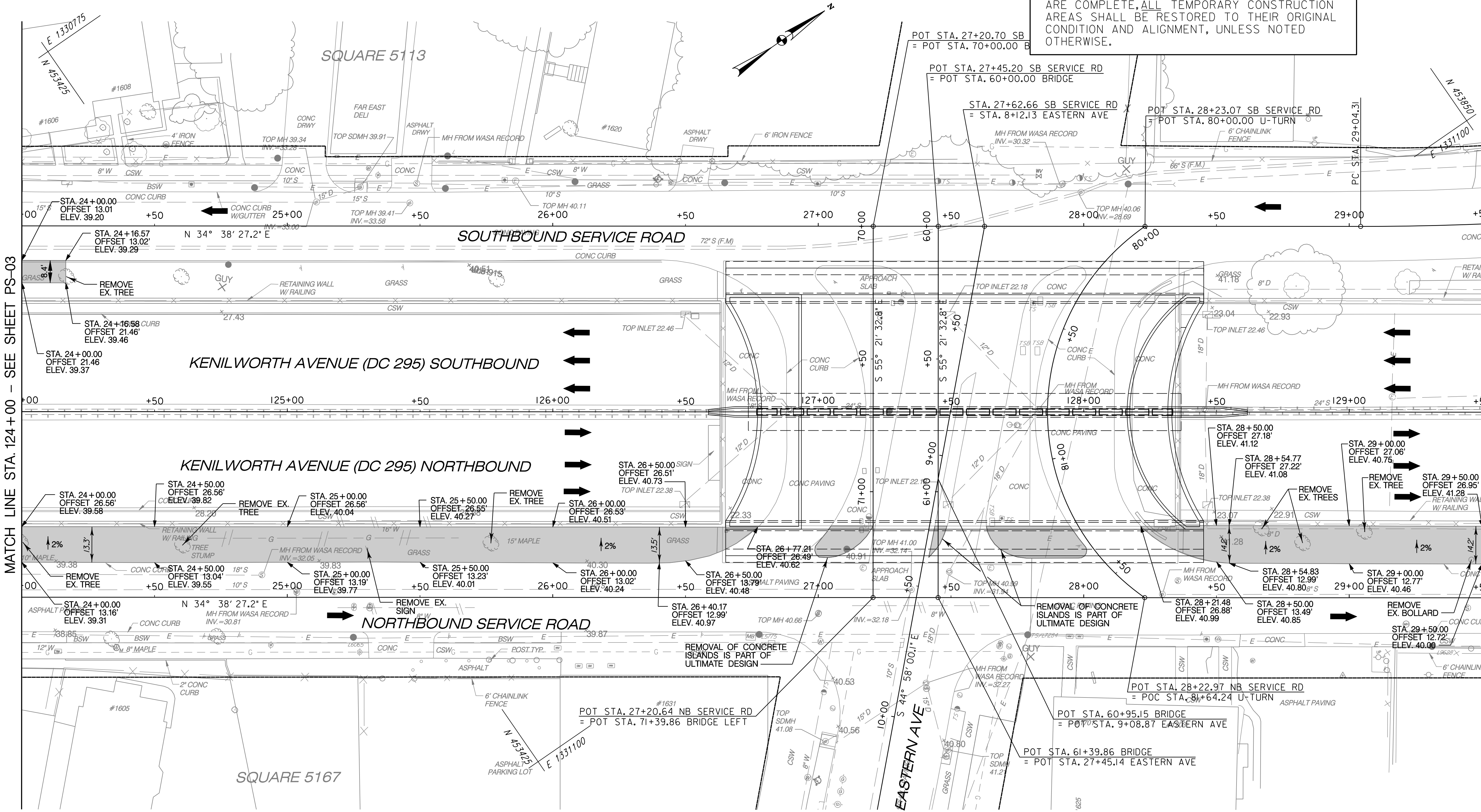
**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

TEMPORARY ROADWAY PLAN

PROJECT ENG. <u>LRH</u>	DESIGNED BY <u>LRH</u>
CHECKED BY <u>SJS</u>	DRAWN BY <u>LMM</u>
PROJECT MGR. <u>LRH</u>	
DIVISION CHIEF	
DATE _____	FILE _____

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Tuesday, April 23, 2008 4:02:46 PM
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ALL CONSTRUCTION SHOWN ON THIS SHEET IS FOR MAINTENANCE OF TRAFFIC AND SHALL BE TEMPORARY. ONCE CONSTRUCTION OF THE ULTIMATE BRIDGE AND ROADWAY IMPROVEMENTS ARE COMPLETE, ALL TEMPORARY CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ALIGNMENT, UNLESS NOTED OTHERWISE.

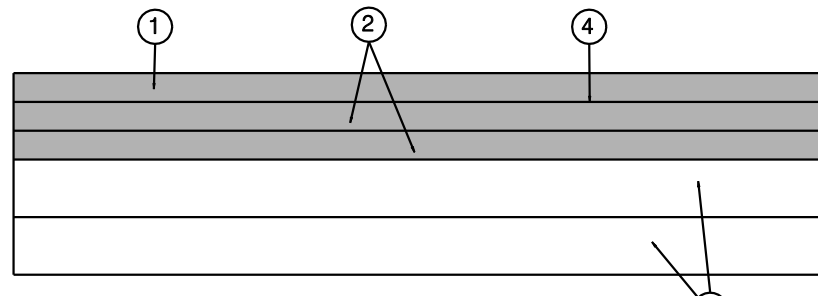


MATCH LINE STA. 124+00 - SEE SHEET PS-03

MATCH LINE STA. 129+50 - SEE SHEET PS-05

NOTES:

- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
- THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.
- TEMPORARY ROADWAY WIDENING AND CONSTRUCTION SHOWN ON THIS PLAN SHALL BE COORDINATED WITH MAINTENANCE OF TRAFFIC PLANS FOR PHASES I AND 2.
- SEE LD-01 AND LD-03 FOR TREE PROTECTION DEVICES AND TREE PROTECTION NOTES.



FULL DEPTH PAVEMENT SECTION

PAVEMENT LEGEND

- 2" HOT MIX ASPHALT, 9.5 MM SURFACE COURSE, P.G. 64-22
- 2.5" HOT MIX ASPHALT, 19.0 MM BASE COURSE, P.G. 64-22 (TWO LIFTS)
- 6" GRADED AGGREGATE BASE COURSE, (CR-6, OR EQUIVALENT) (TWO LIFTS)
- TACK COAT



SCALE: 1" = 20'

LEGEND



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CONSULTING ENGINEERS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

PS-06

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

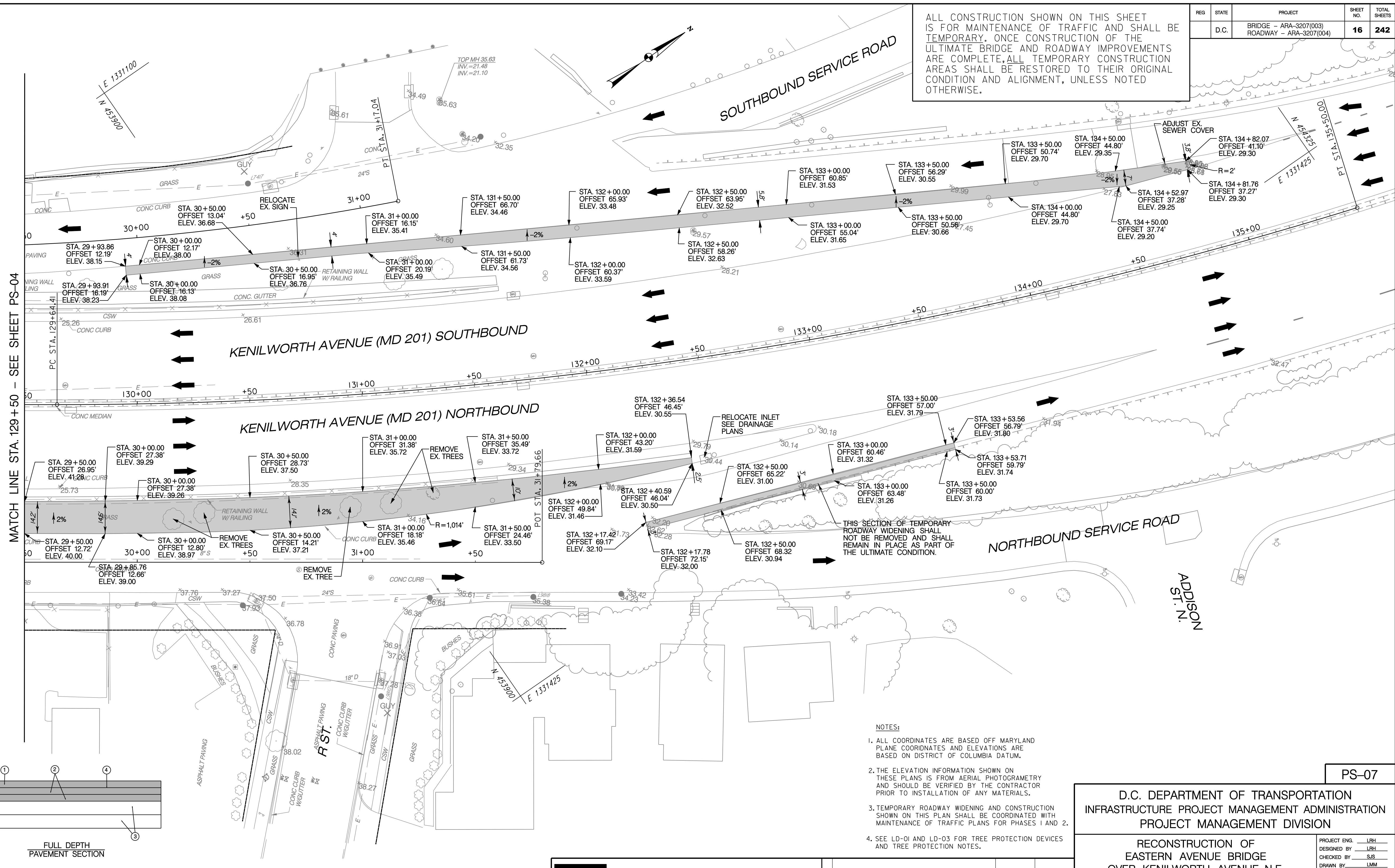
TEMPORARY ROADWAY PLAN

PROJECT ENG. _____	LRH
DESIGNED BY _____	LRH
CHECKED BY _____	SJS
DRAWN BY _____	LMM
PROJECT MGR. _____	LRH
DIVISION CHIEF	
DATE _____	
FILE _____	

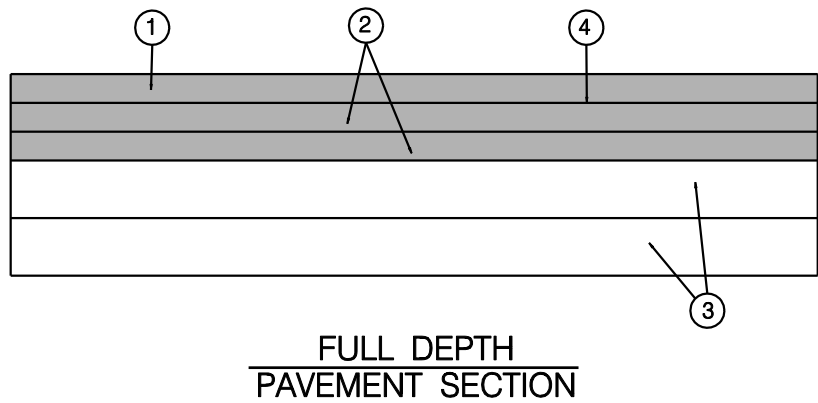
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
D.C.		BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	16	242

ALL CONSTRUCTION SHOWN ON THIS SHEET IS FOR MAINTENANCE OF TRAFFIC AND SHALL BE TEMPORARY. ONCE CONSTRUCTION OF THE ULTIMATE BRIDGE AND ROADWAY IMPROVEMENTS ARE COMPLETE, ALL TEMPORARY CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ALIGNMENT, UNLESS NOTED OTHERWISE.

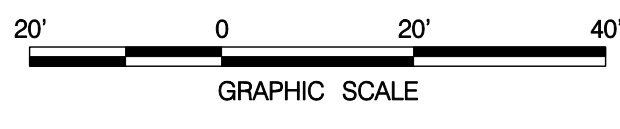


MATCH LINE STA. 129+50 - SEE SHEET PS-04



FULL DEPTH PAVEMENT SECTION

- PAVEMENT LEGEND**
- ① 2" HOT MIX ASPHALT, 9.5 MM SURFACE COURSE, P.G. 64-22
 - ② 2.5" HOT MIX ASPHALT, 19.0 MM BASE COURSE, P.G. 64-22 (TWO LIFTS)
 - ③ 6" GRADED AGGREGATE BASE COURSE, (CR-6, OR EQUIVALENT) (TWO LIFTS)
 - ④ TACK COAT



SCALE: 1" = 20'

- LEGEND**
- FULL DEPTH ASPHALT PAVEMENT

NOTES:

1. ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
2. THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.
3. TEMPORARY ROADWAY WIDENING AND CONSTRUCTION SHOWN ON THIS PLAN SHALL BE COORDINATED WITH MAINTENANCE OF TRAFFIC PLANS FOR PHASES I AND 2.
4. SEE LD-01 AND LD-03 FOR TREE PROTECTION DEVICES AND TREE PROTECTION NOTES.

PS-07

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

TEMPORARY ROADWAY PLAN

PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH

DIVISION CHIEF
DATE _____
FILE _____

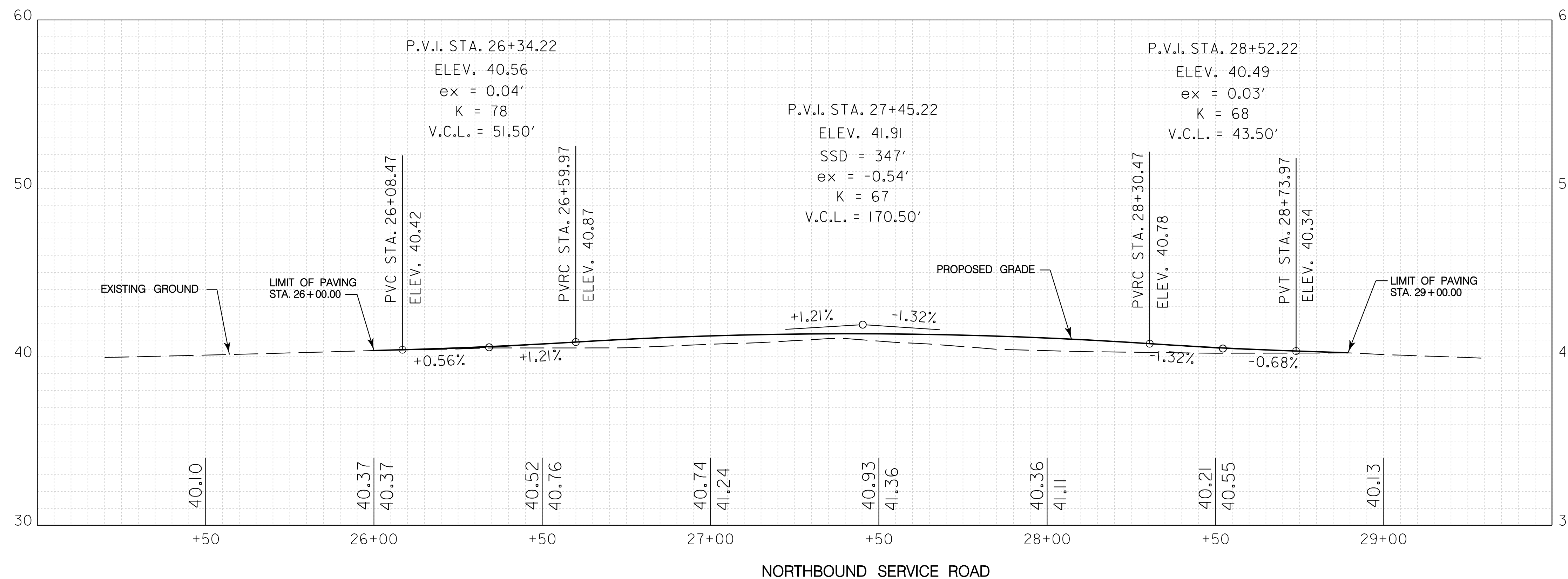
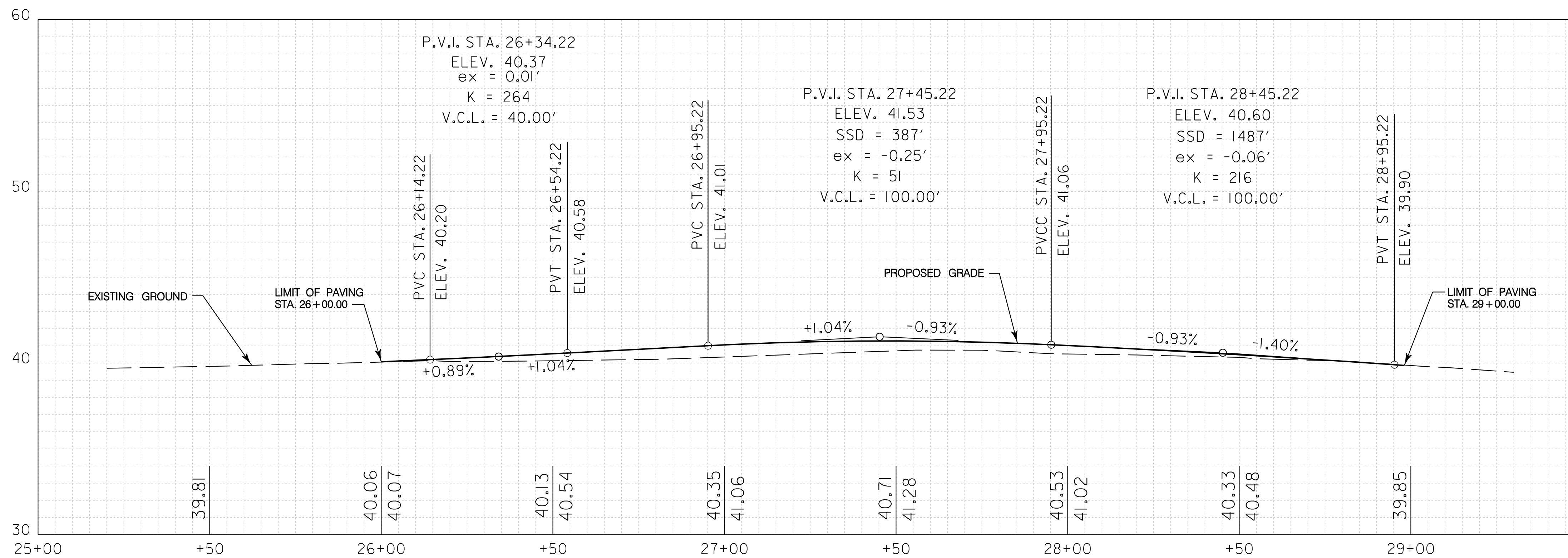


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NO.	DESCRIPTION	NAME	DATE

REVISIONS

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NOTE:
THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.

PR-01

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH

DIVISION CHIEF

ROADWAY PROFILES

DATE _____
FILE _____



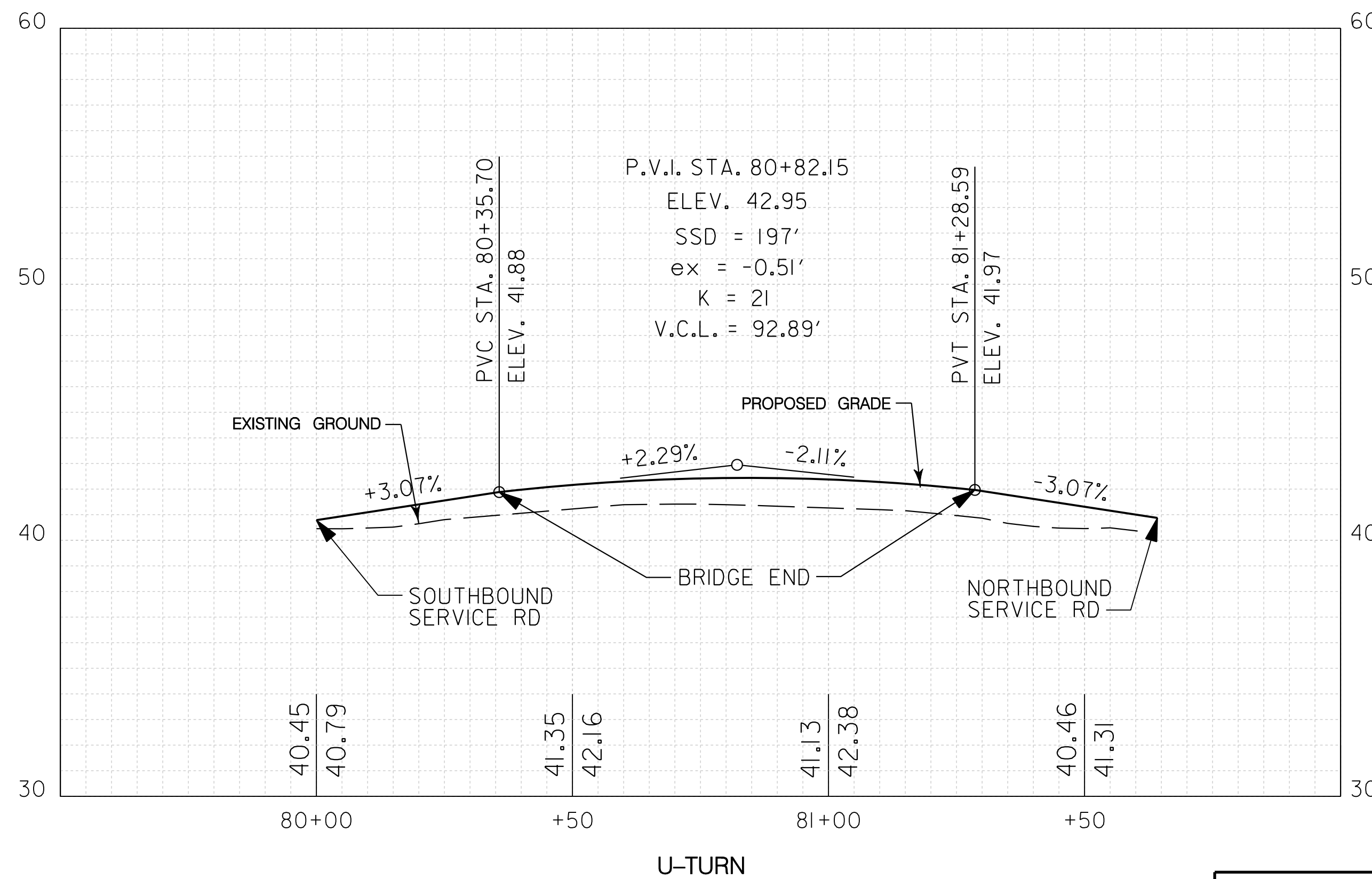
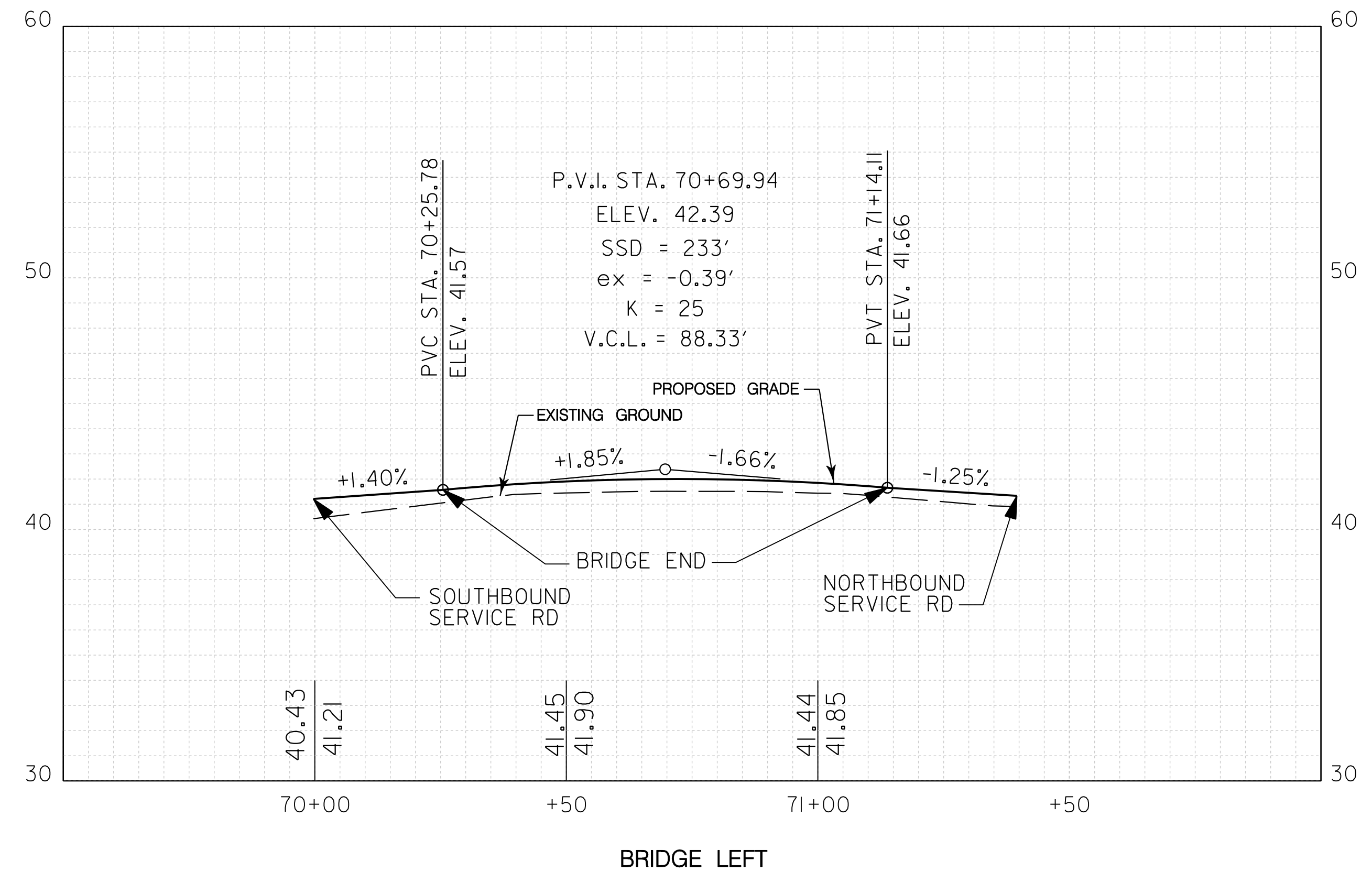
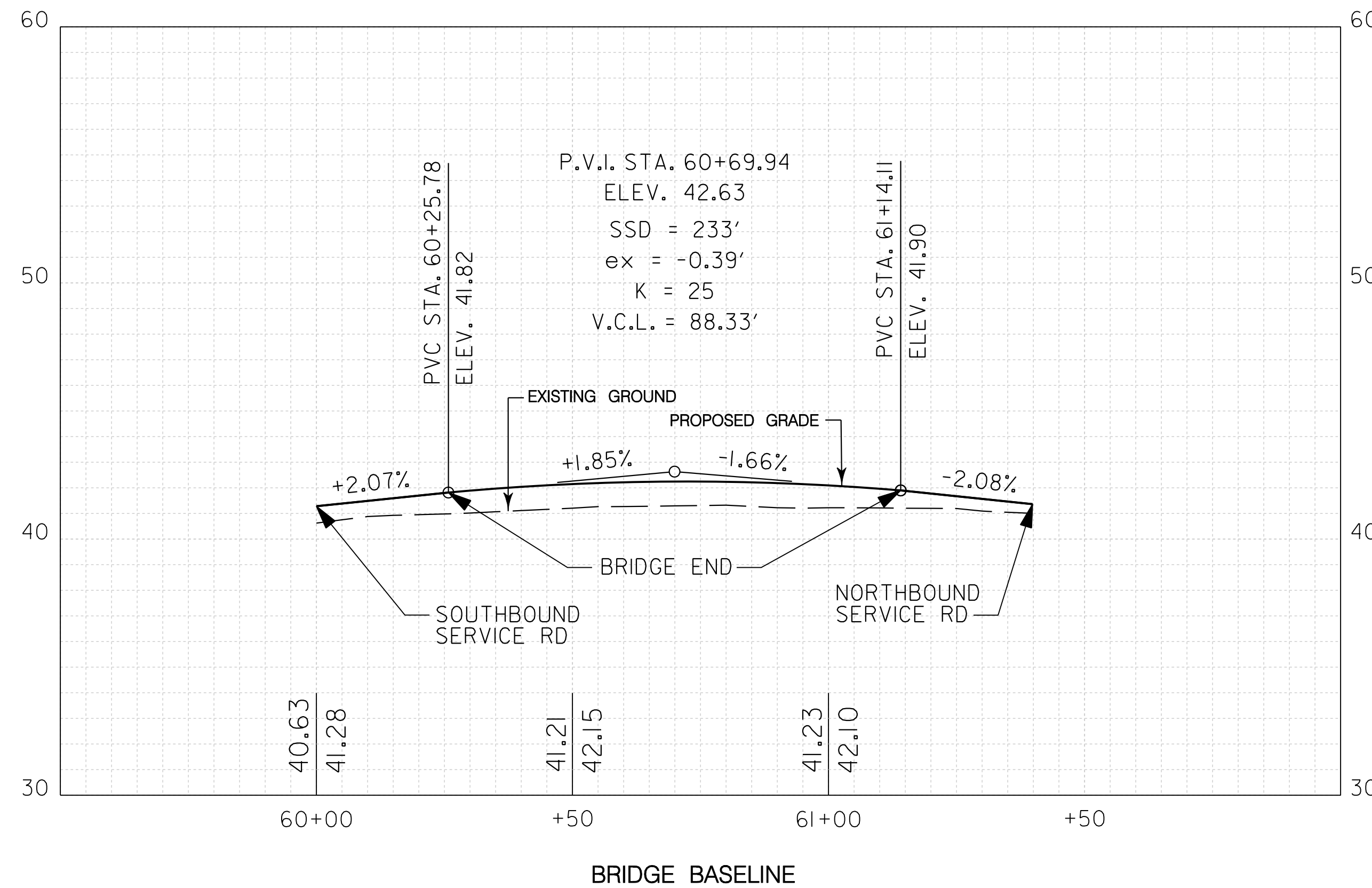
SCALE: H: 1" = 20' V: 1" = 4'



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			



NOTE:
THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.

PR-02

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH

DIVISION CHIEF

ROADWAY PROFILES

DATE _____
FILE _____



SCALE: H: 1" = 20' V: 1" = 4'



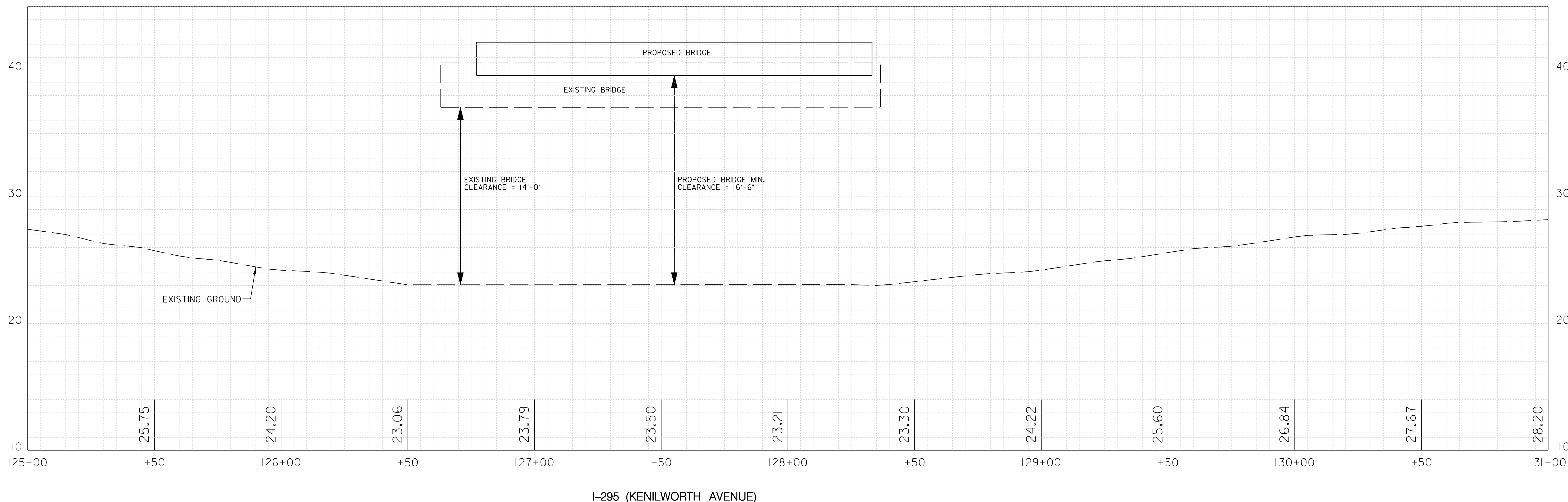
GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE

REVISIONS

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	19	242



I-295 (KENILWORTH AVENUE)

NOTE:
THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.

PR-03

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

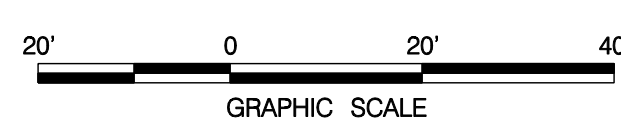
**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

ROADWAY PROFILES

PROJECT ENG.	LRH
DESIGNED BY	LRH
CHECKED BY	SJS
DRAWN BY	LMM
PROJECT MGR.	LRH

DIVISION CHIEF

DATE _____
FILE _____



SCALE: H: 1" = 20' V: 1" = 4'

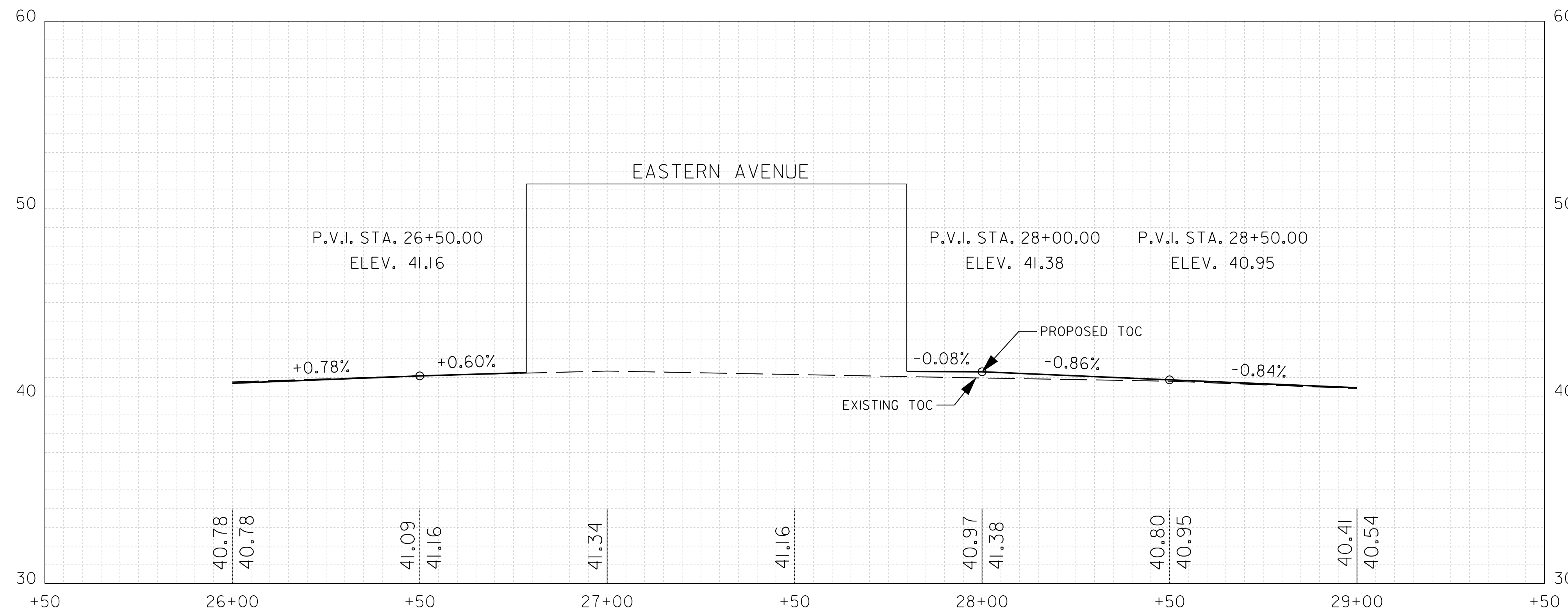


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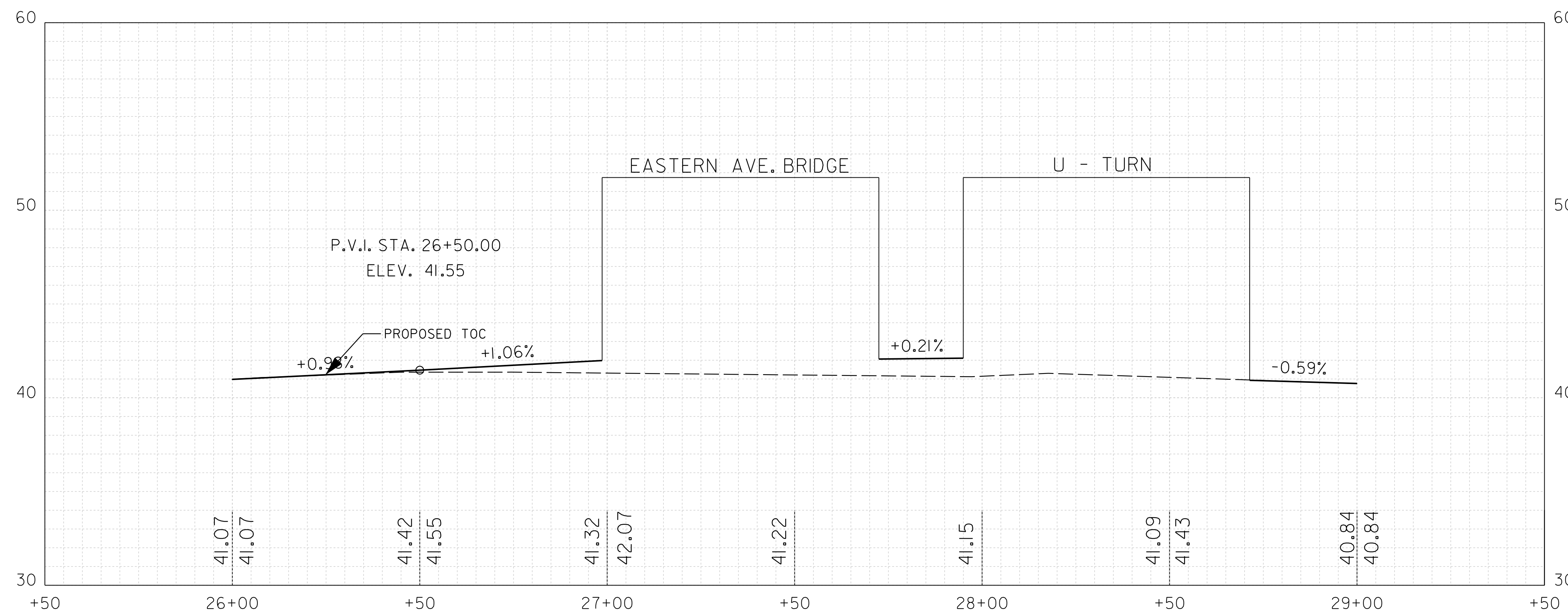
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REVISIONS

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NORTHBOUND SERVICE ROAD - TOP OF CURB - RIGHT



NORTHBOUND SERVICE ROAD - TOP OF CURB - LEFT

NOTE:
THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.

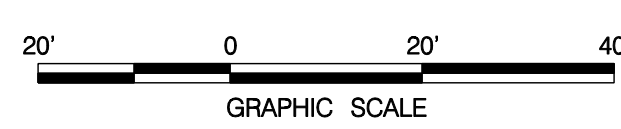
PR-04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

TOP OF CURB PROFILES
NORTHBOUND SERVICE ROAD

PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH
DIVISION CHIEF
DATE _____
FILE _____



SCALE: H: 1" = 20' V: 1" = 4'

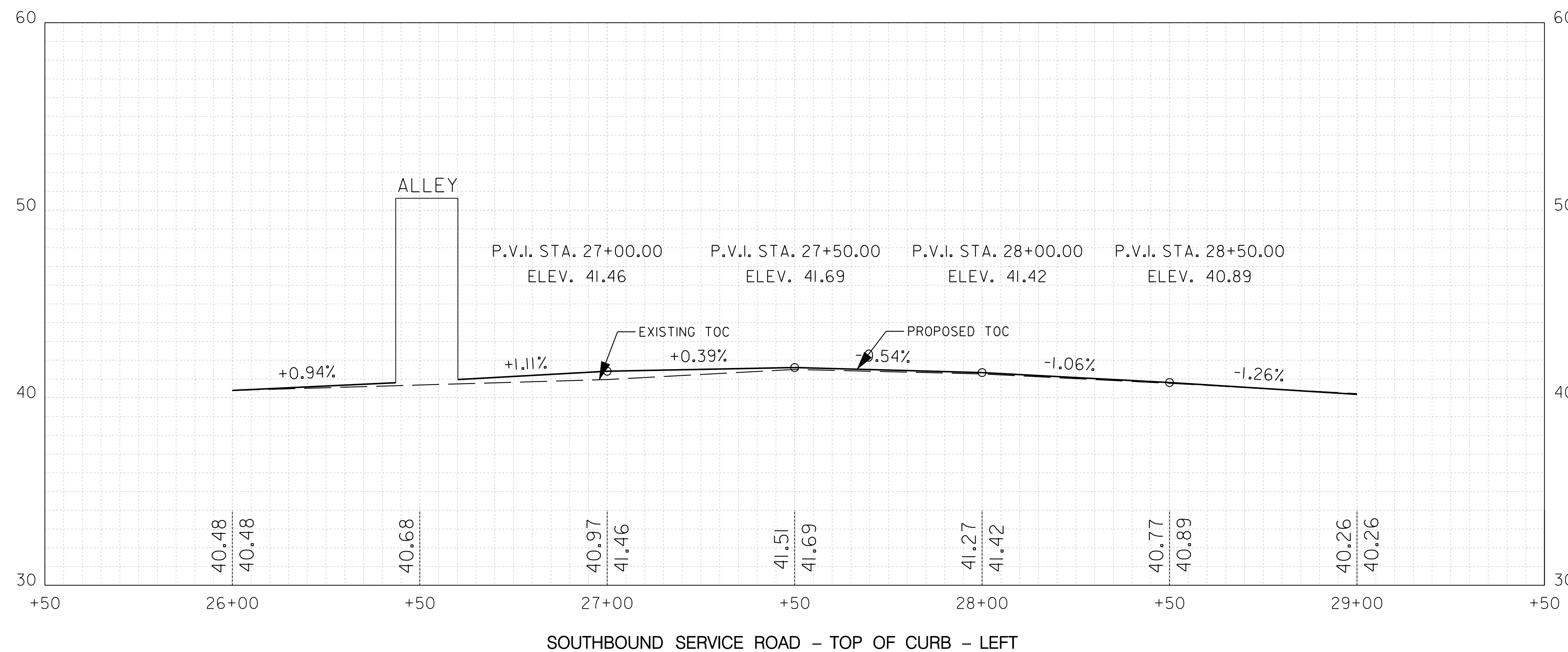
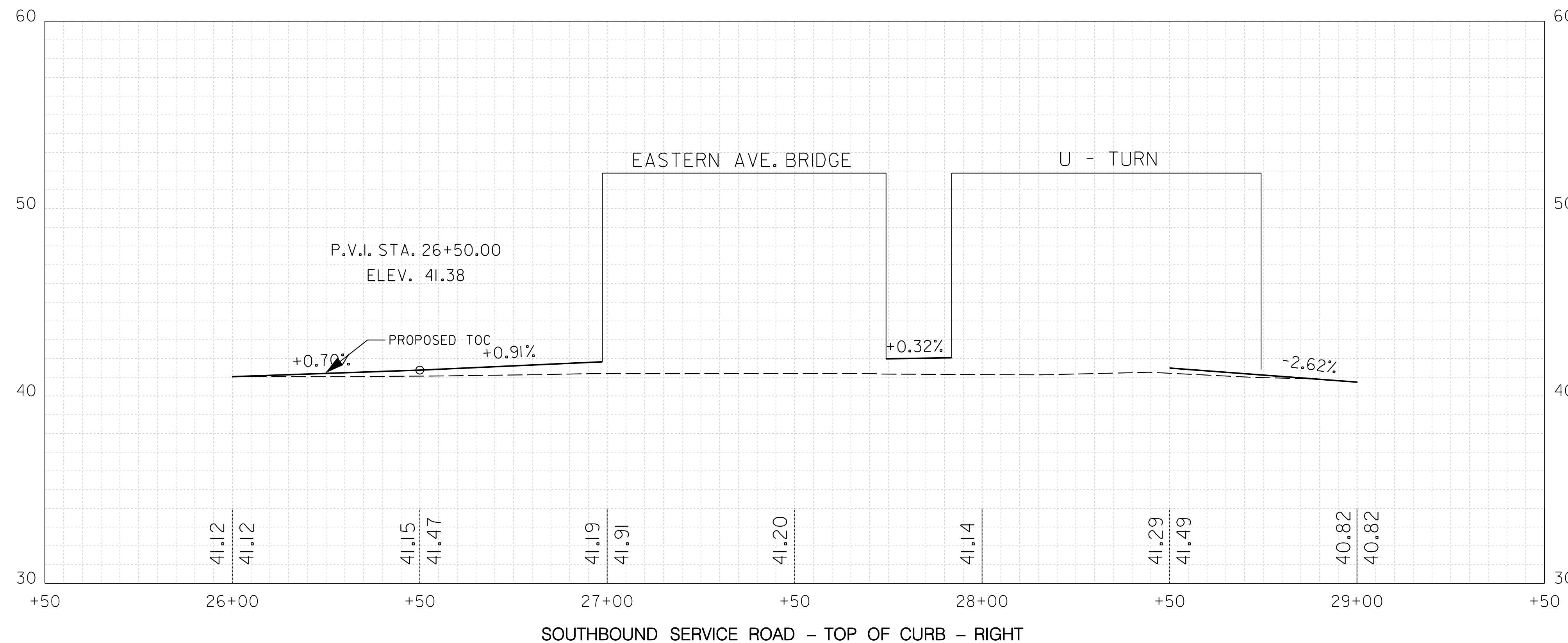


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	21	242



NOTE:
THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.

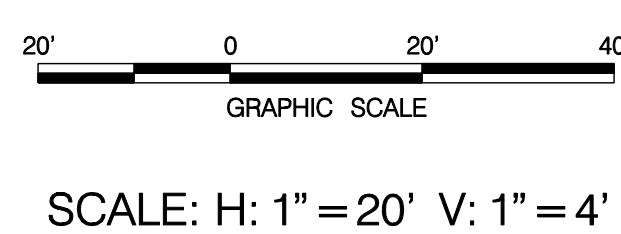
PR-05

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

TOP OF CURB PROFILES
SOUTHBOUND SERVICE ROAD

PROJECT ENG.	LRH
DESIGNED BY	LRH
CHECKED BY	SJS
DRAWN BY	LMM
PROJECT MGR.	LRH
DIVISION CHIEF	
DATE	
FILE	



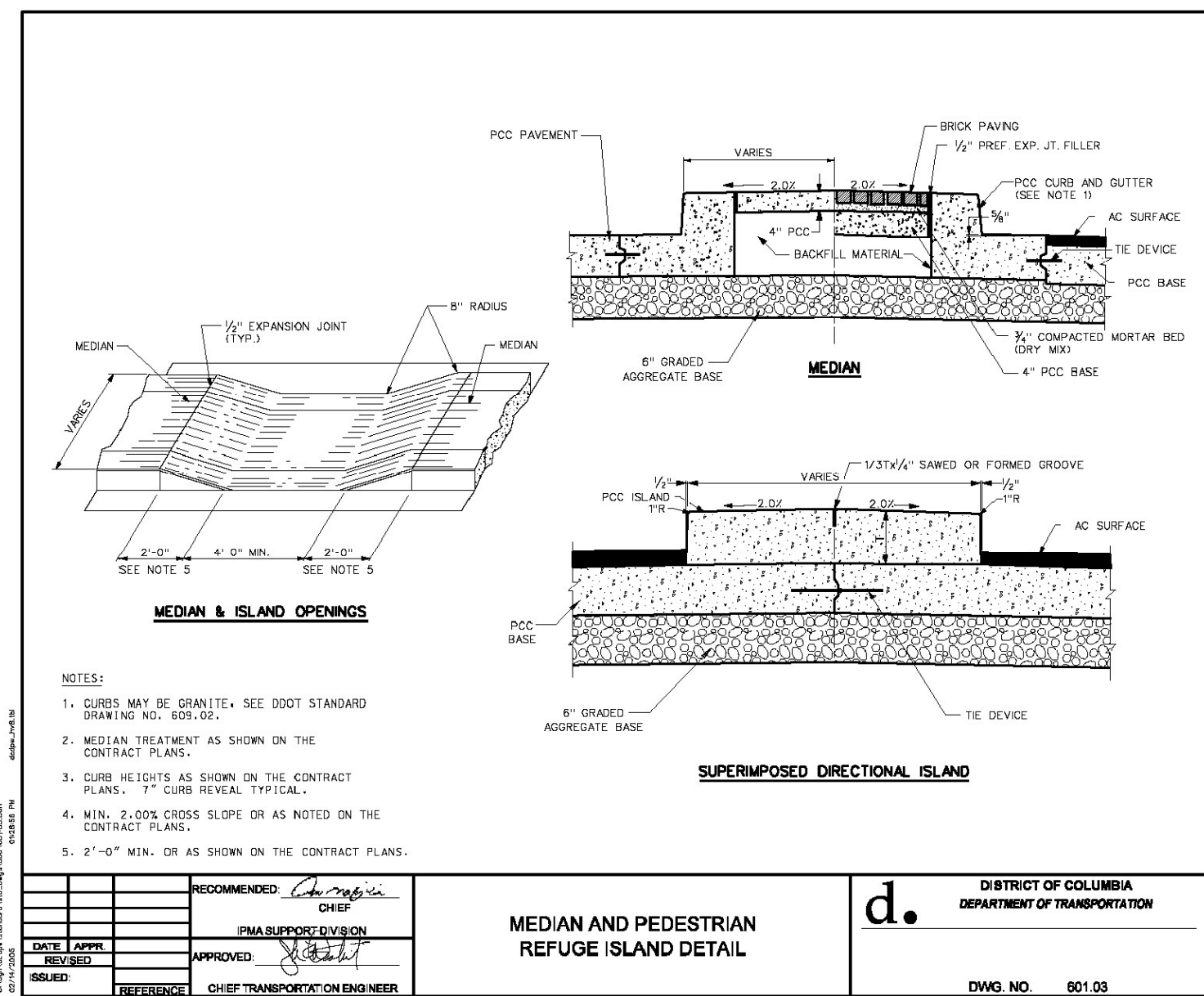
GREENHORNE & O'MARA
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PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

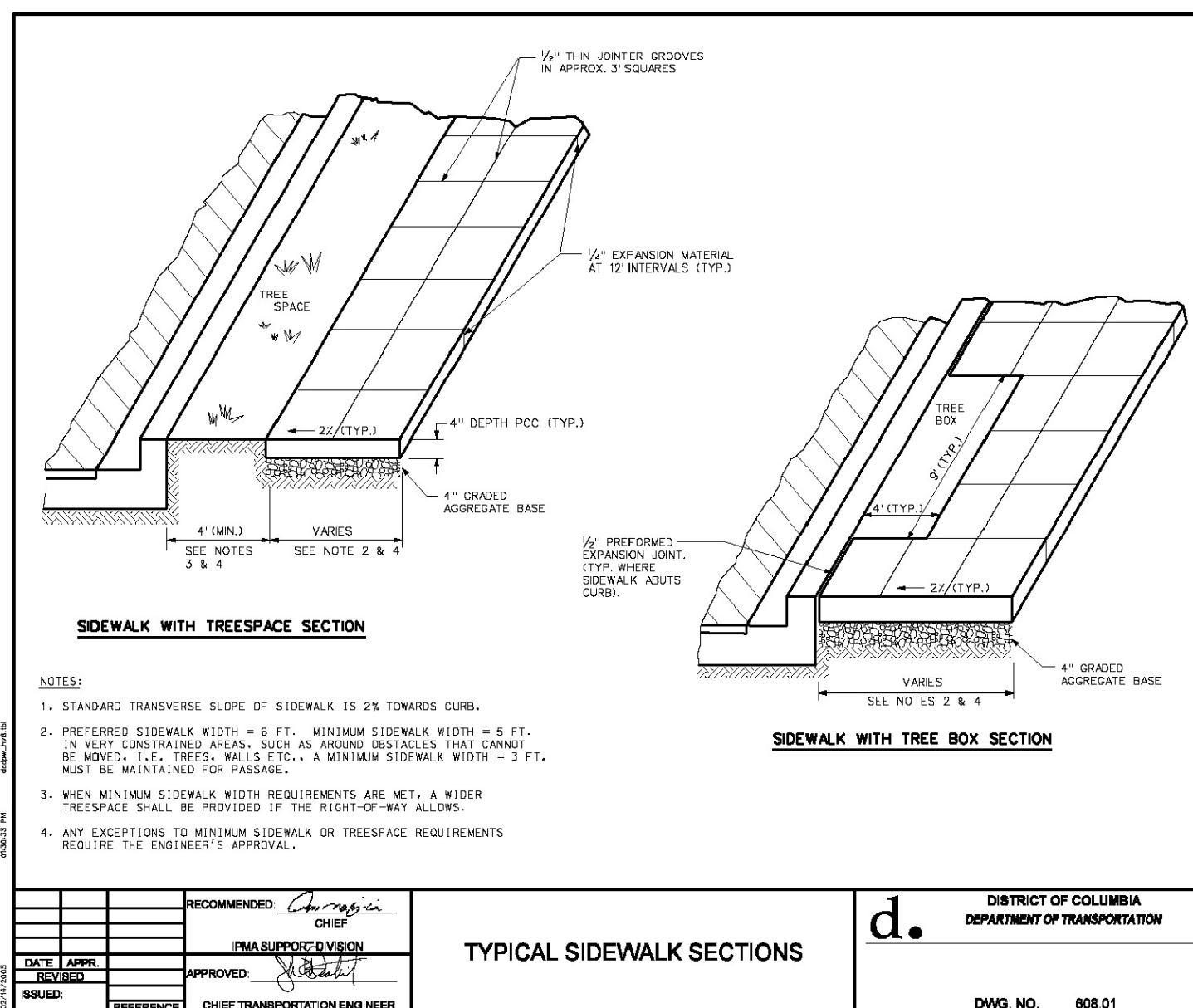
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REVISIONS			

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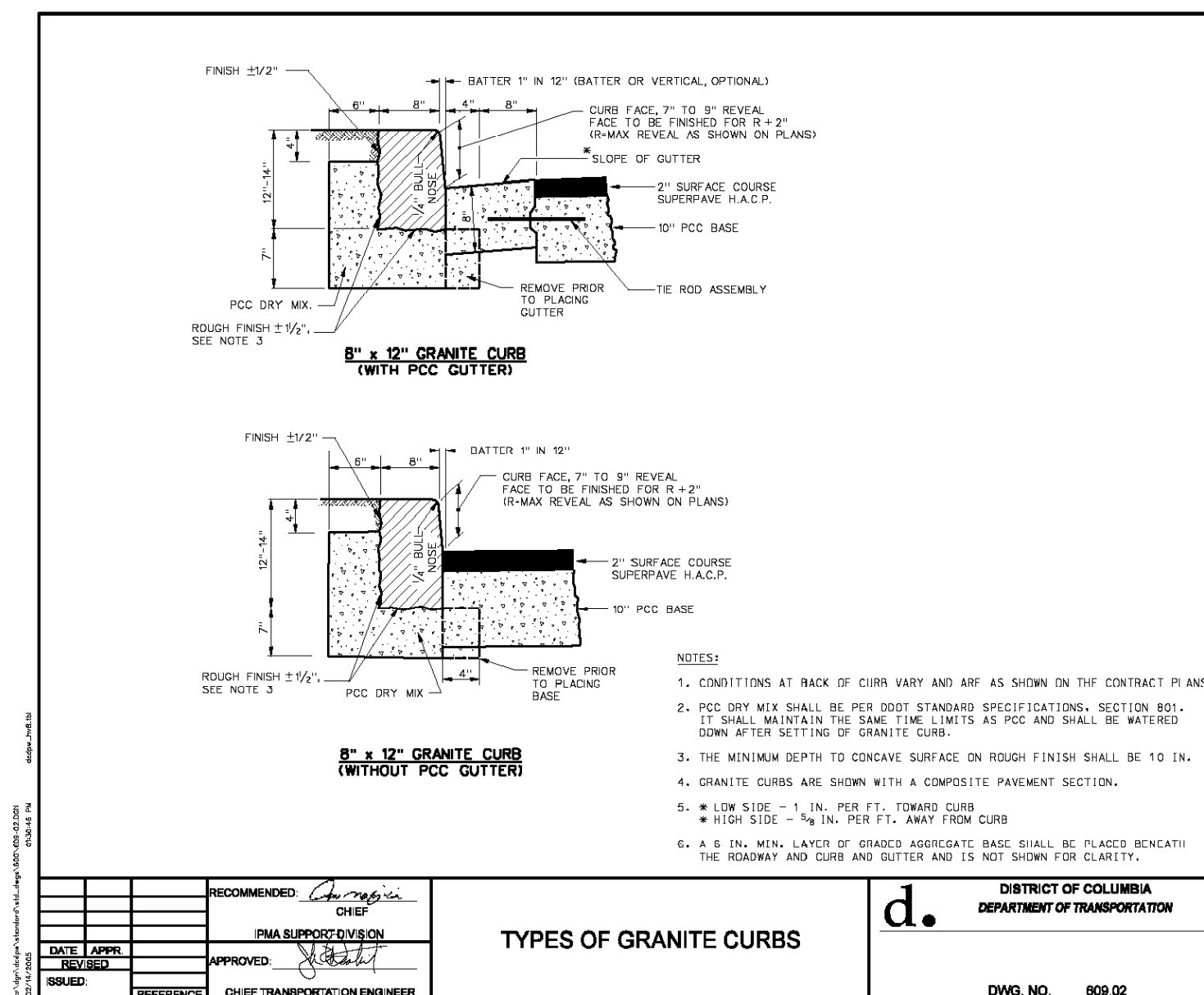
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	22	242



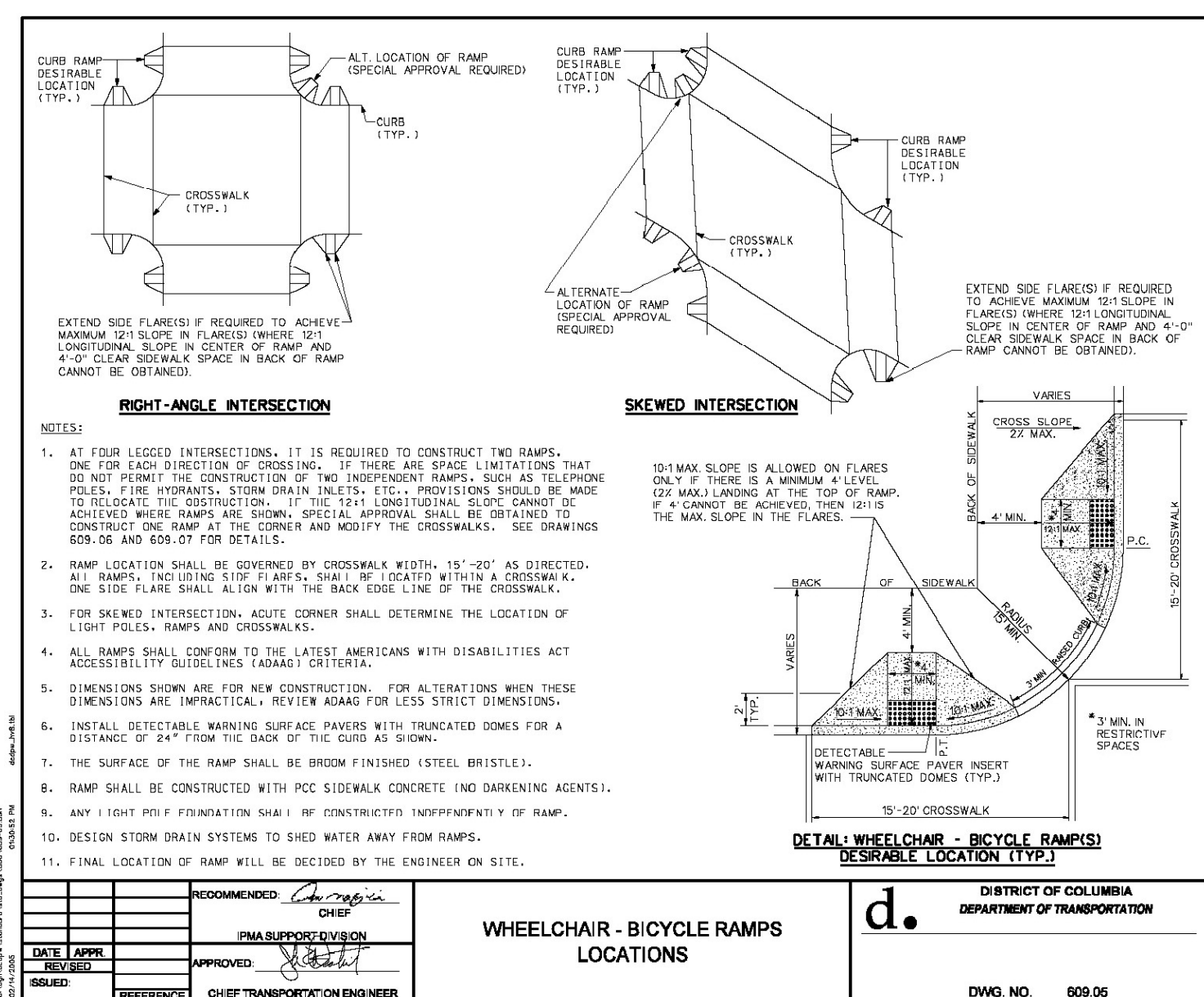
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DATE APPL.	PMA SUPERVISION	
REVISION	APPROVED	
ISSUED	CHIEF TRANSPORTATION ENGINEER	



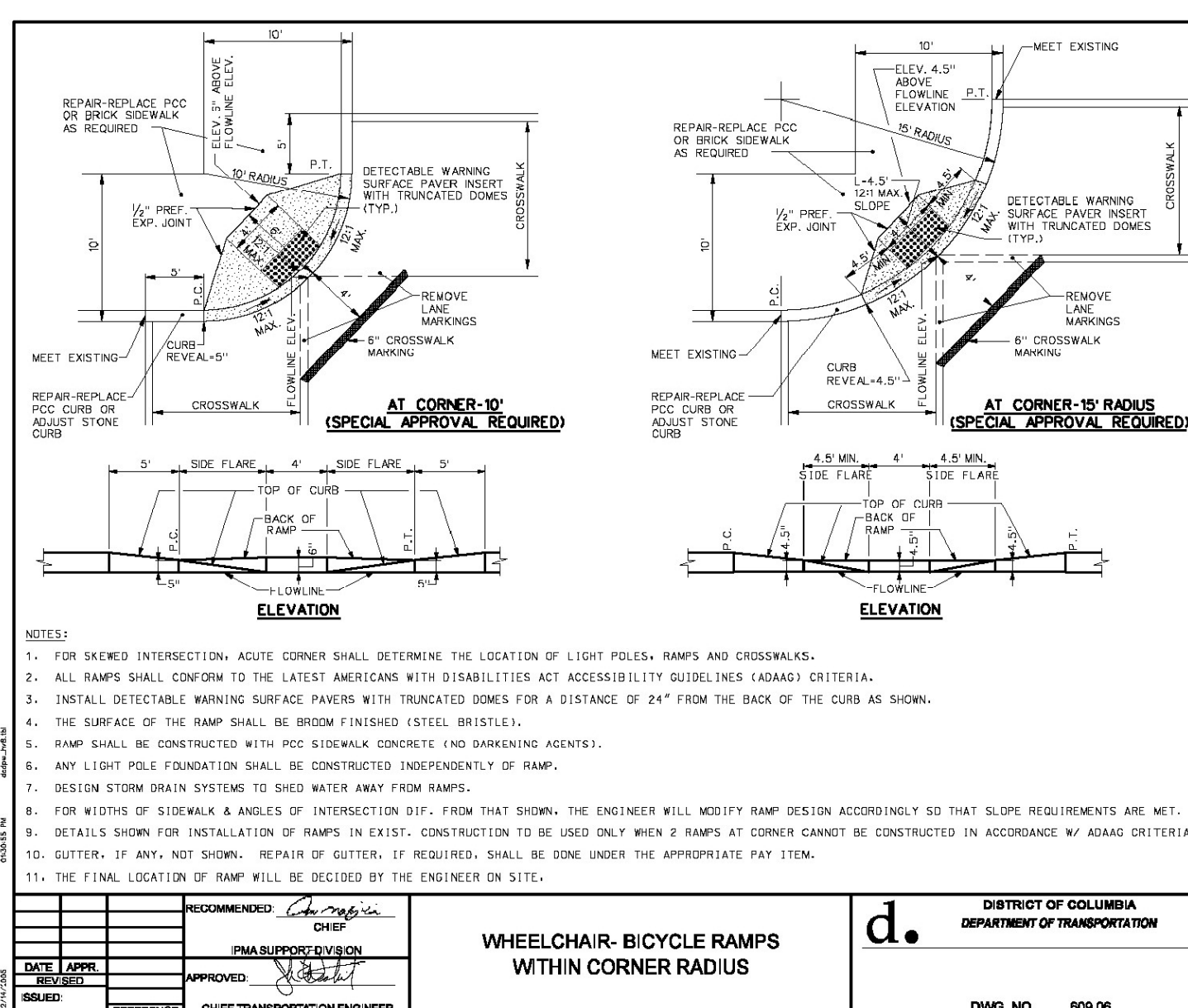
RECOMMENDED	CHP	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.01
DATE APPL.	PMA SUPERVISION	
REVISION	APPROVED	
ISSUED	CHIEF TRANSPORTATION ENGINEER	



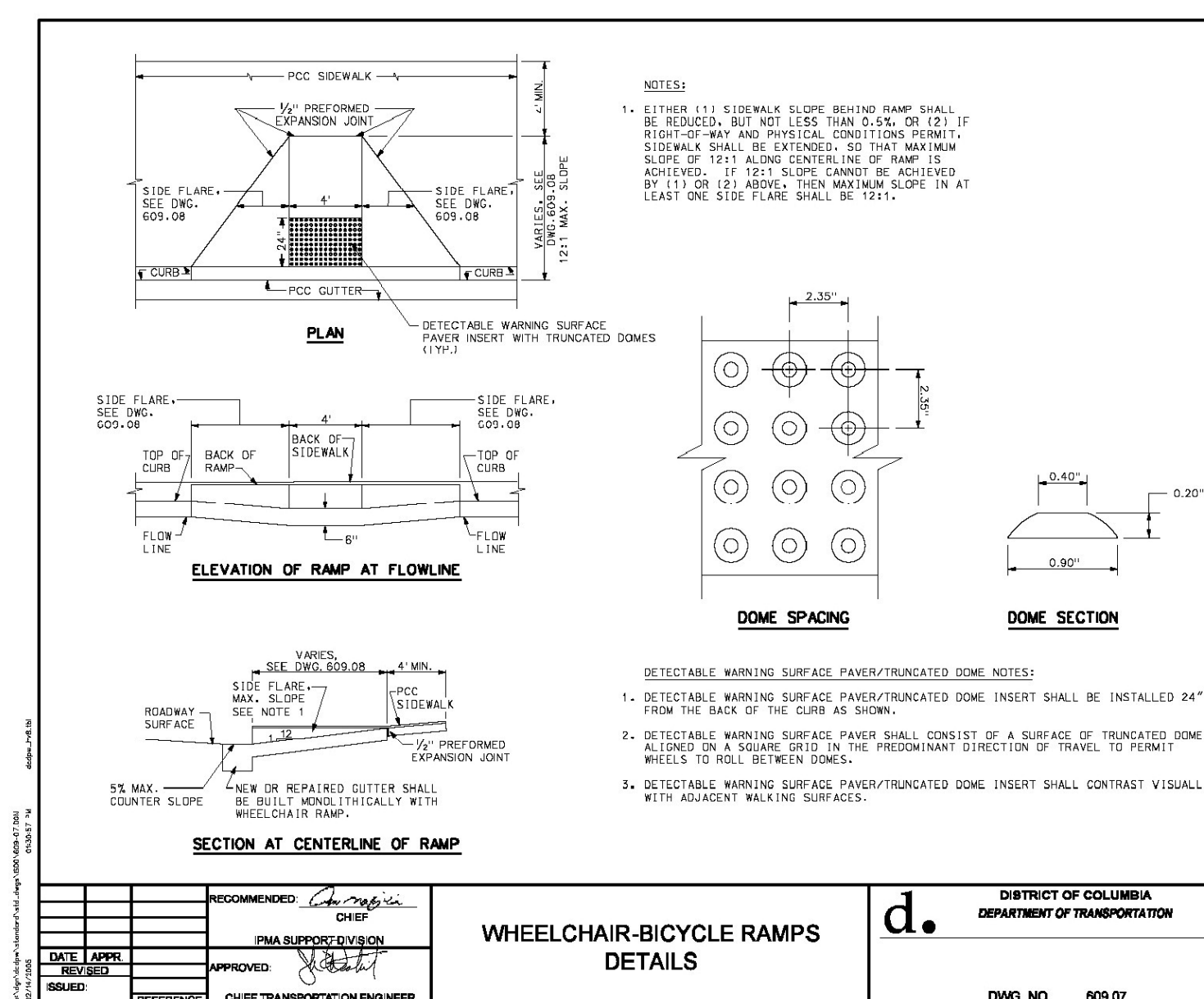
RECOMMENDED	CHP	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.02
DATE APPL.	PMA SUPERVISION	
REVISION	APPROVED	
ISSUED	CHIEF TRANSPORTATION ENGINEER	



RECOMMENDED	CHP	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.06
DATE APPL.	PMA SUPERVISION	
REVISION	APPROVED	
ISSUED	CHIEF TRANSPORTATION ENGINEER	



RECOMMENDED	CHP	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.06
DATE APPL.	PMA SUPERVISION	
REVISION	APPROVED	
ISSUED	CHIEF TRANSPORTATION ENGINEER	



RECOMMENDED	CHP	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.07
DATE APPL.	PMA SUPERVISION	
REVISION	APPROVED	
ISSUED	CHIEF TRANSPORTATION ENGINEER	

NOTE:
FOR CONCRETE SIDEWALK CONSTRUCTION, THE 4 INCHES OF GRADED AGGREGATE BASE LACED UNDER PROPOSED CONCRETE SIDEWALK SHALL BE INCIDENTAL TO THE COST OF CONCRETE SIDEWALK.

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MISCELLANEOUS DETAILS

PROJECT ENG. - LRH
DESIGNED BY - LRH
CHECKED BY - SJS
DRAWN BY - LMM
PROJECT MGR. - LRH

DIVISION CHIEF

DATE _____
FILE _____

GREENHORNE & O'MARA
CONSULTING ENGINEERS

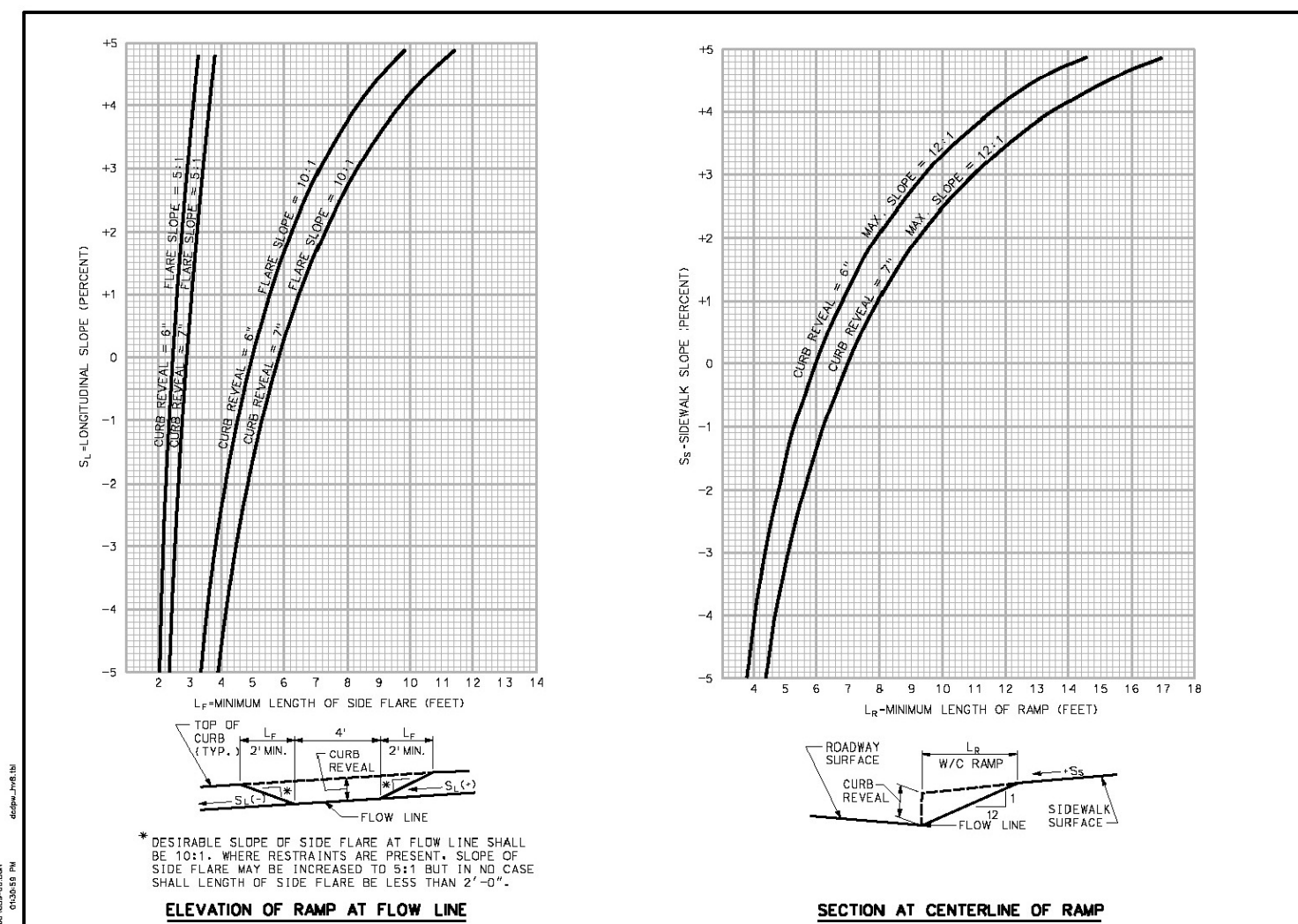
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE

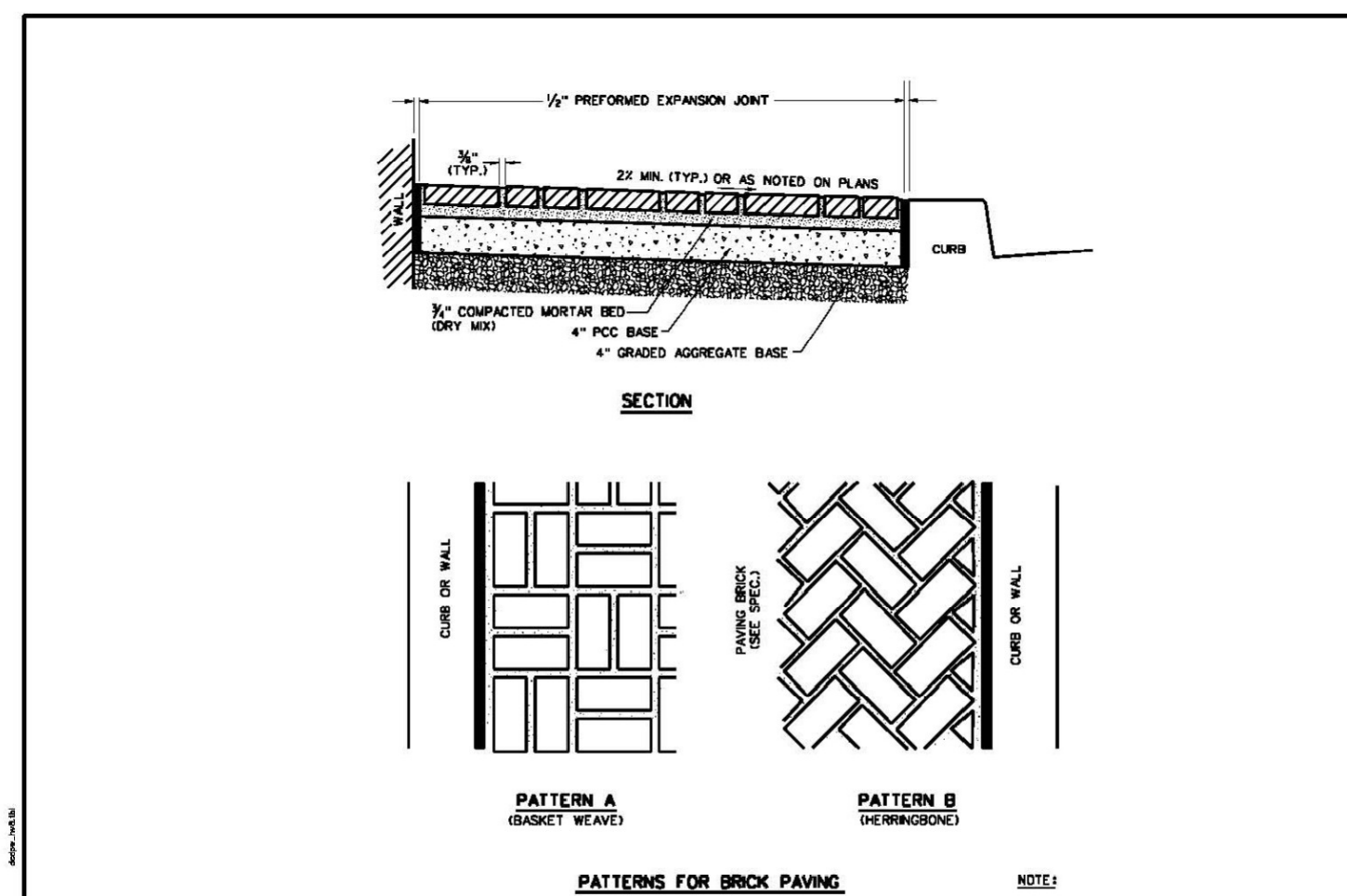
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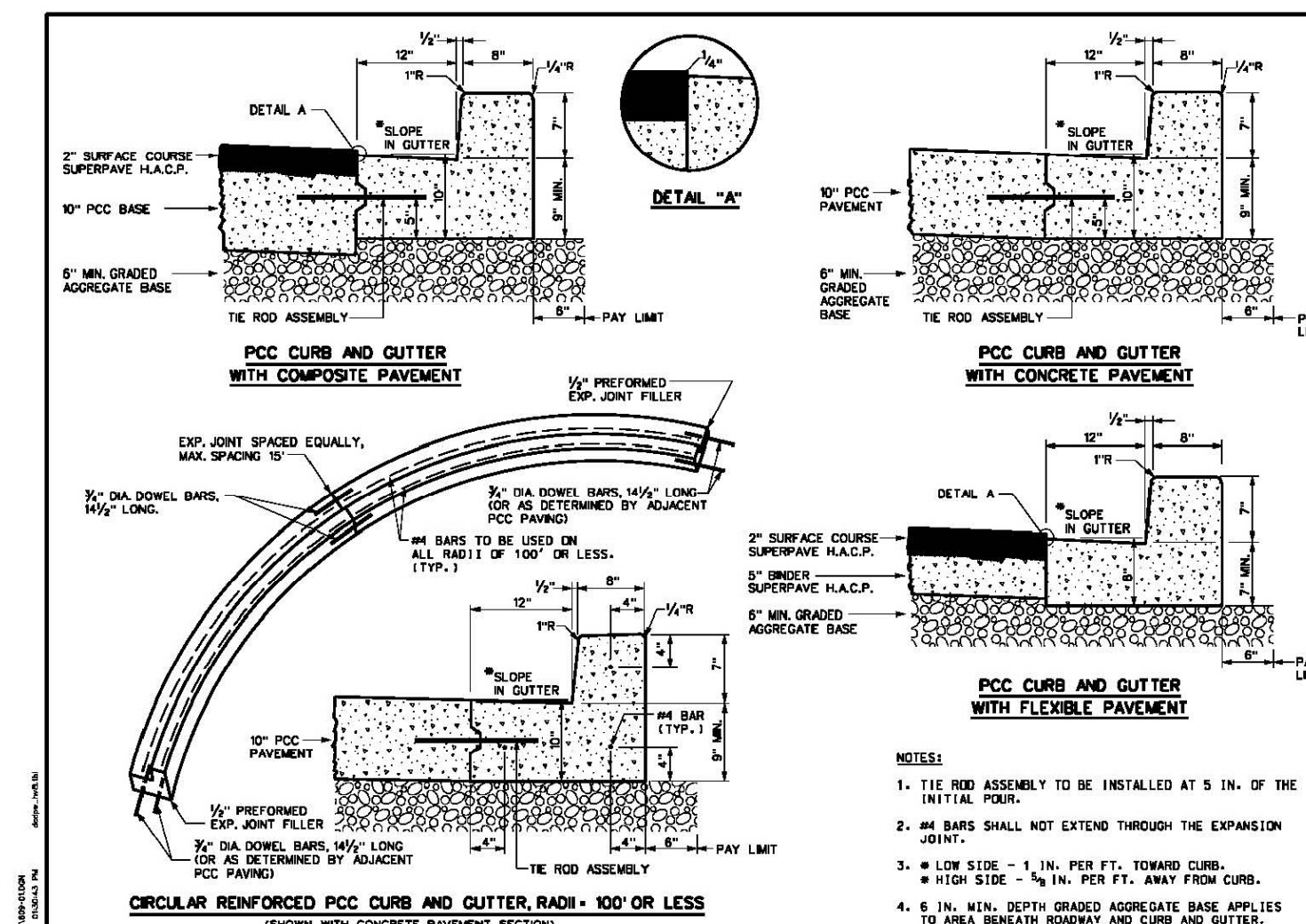
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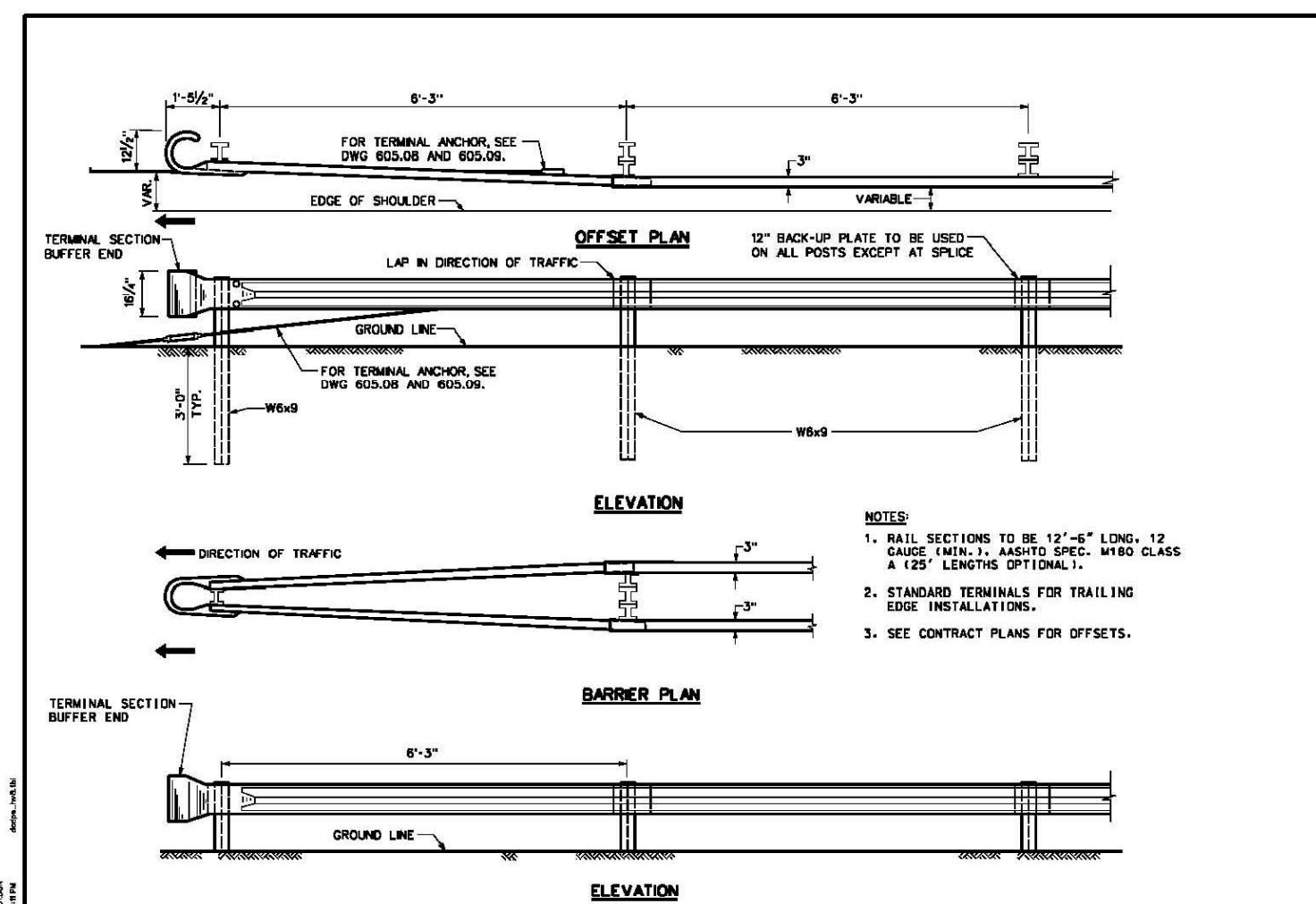
RECOMMENDED: <i>[Signature]</i> CHIEF	WHEELCHAIR-BICYCLE RAMPS SLOPE NOMOGRAPHS d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.08
DATE APPLICABLE: _____	
APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER	
ISSUED: _____	



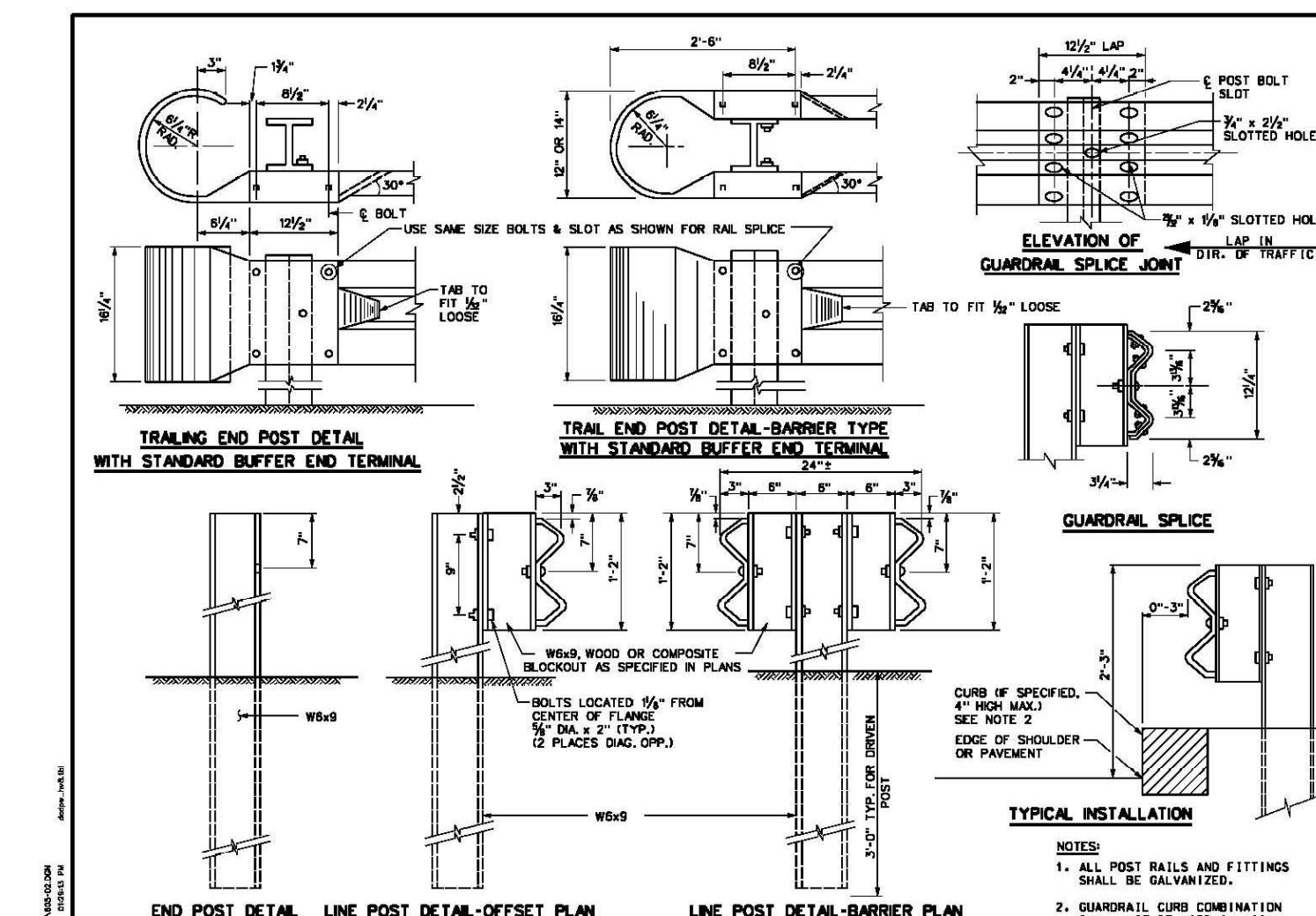
RECOMMENDED: <i>[Signature]</i> CHIEF	BRICK ON 4\"/>
DATE APPLICABLE: _____	
APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER	
ISSUED: _____	



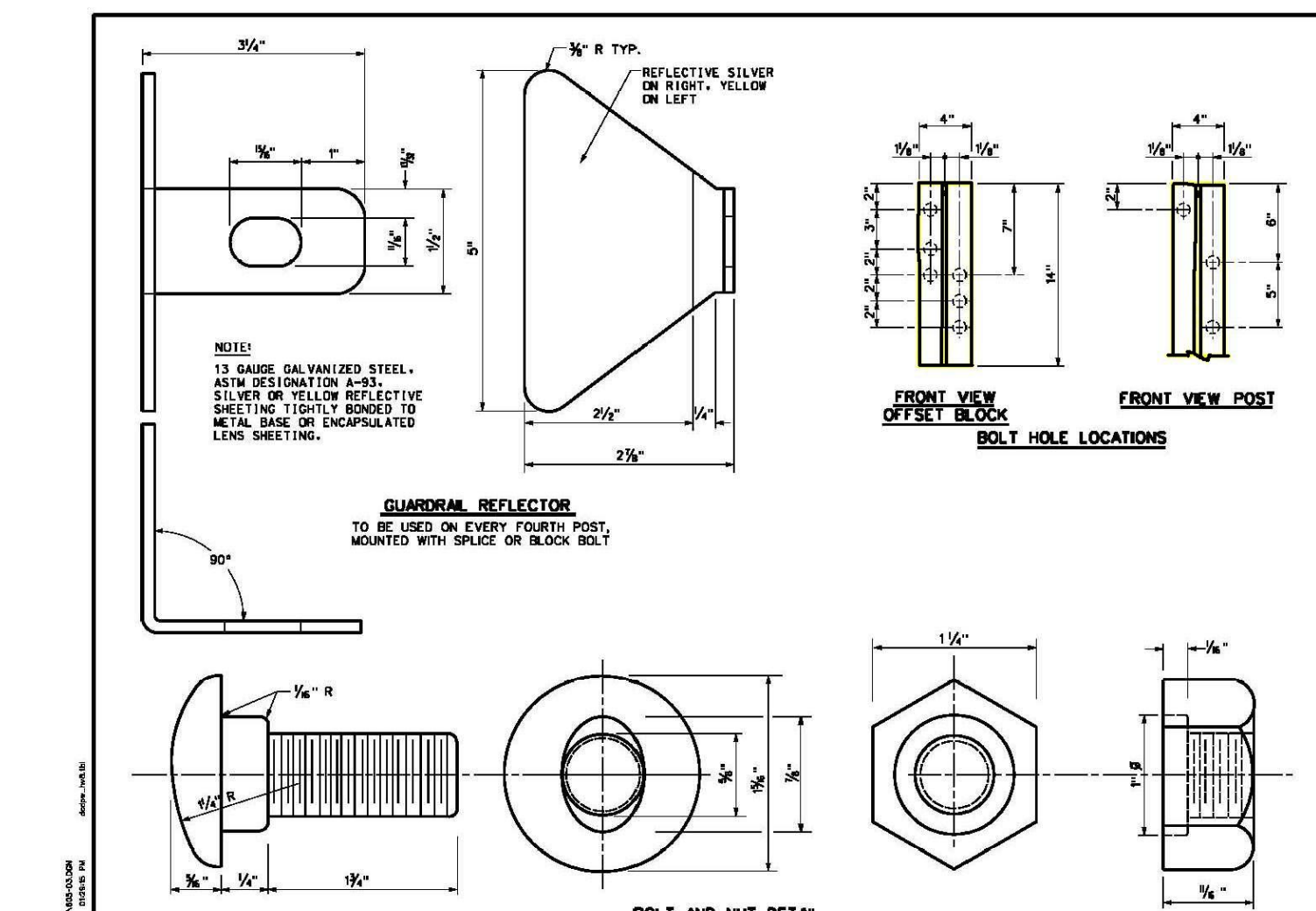
RECOMMENDED: <i>[Signature]</i> CHIEF	TYPES OF PCC CURB & GUTTER d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 609.01
DATE APPLICABLE: _____	
APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER	
ISSUED: _____	



RECOMMENDED: <i>[Signature]</i> CHIEF	W-BEAM GUARDRAIL TRAILING END TERMINAL d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 606.01
DATE APPLICABLE: _____	
APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER	
ISSUED: _____	



RECOMMENDED: <i>[Signature]</i> CHIEF	W-BEAM GUARDRAIL DETAILS - 1 d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 606.02
DATE APPLICABLE: _____	
APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER	
ISSUED: _____	



RECOMMENDED: <i>[Signature]</i> CHIEF	W-BEAM GUARDRAIL DETAILS - 2 d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 606.03
DATE APPLICABLE: _____	
APPROVED: <i>[Signature]</i> CHIEF TRANSPORTATION ENGINEER	
ISSUED: _____	

DE-02

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH

DIVISION CHIEF
DATE _____
FILE _____

MISCELLANEOUS DETAILS

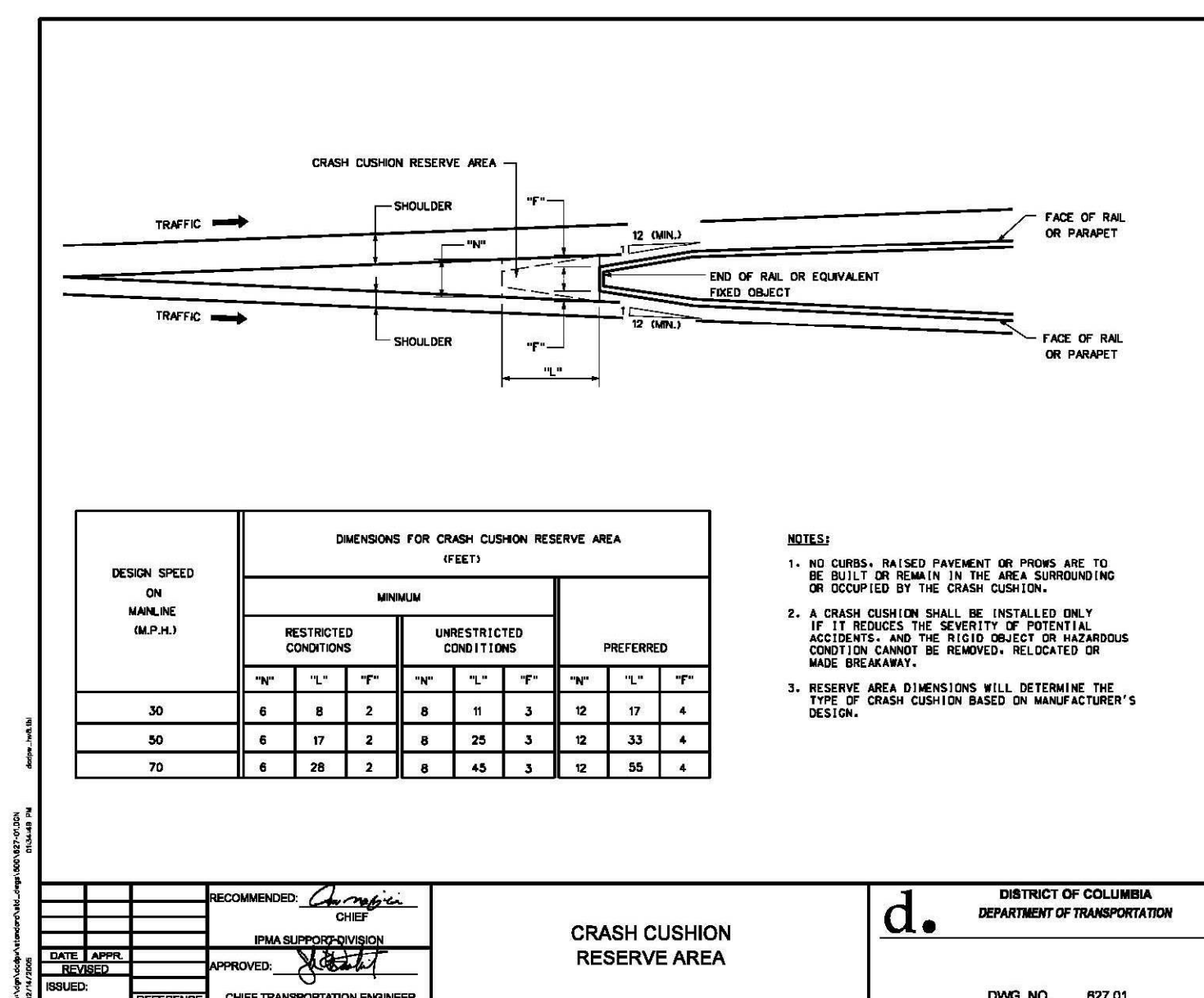
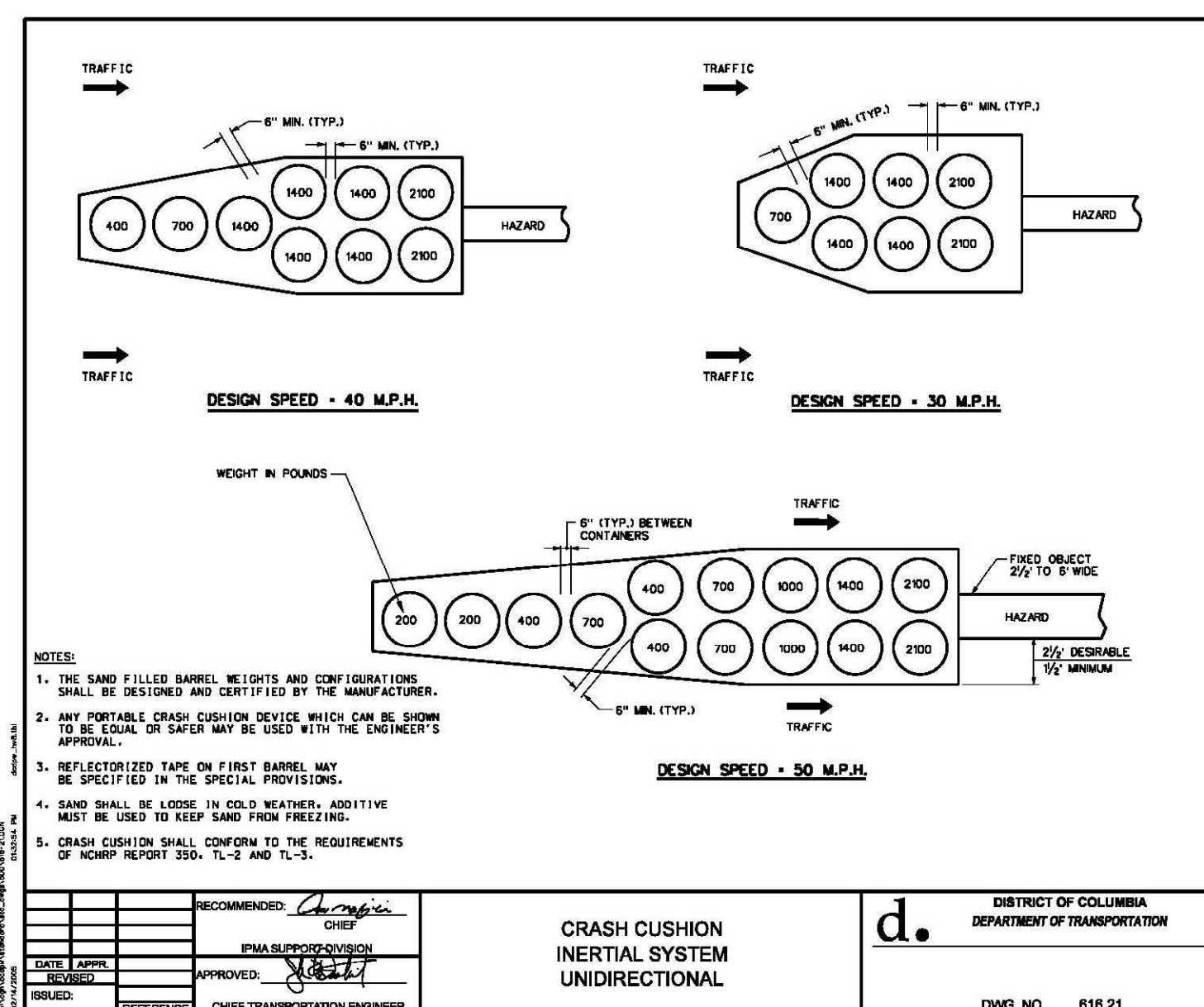
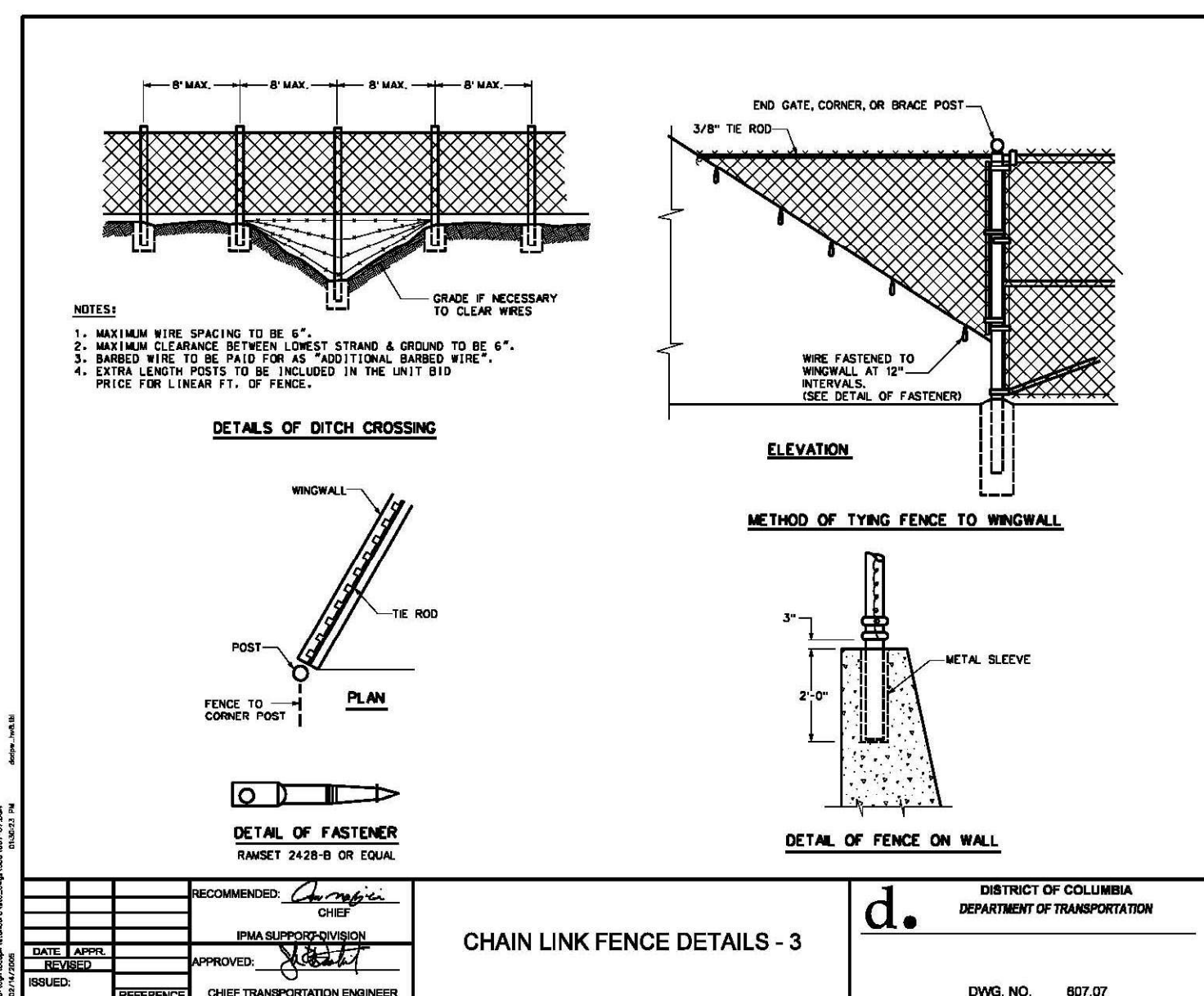
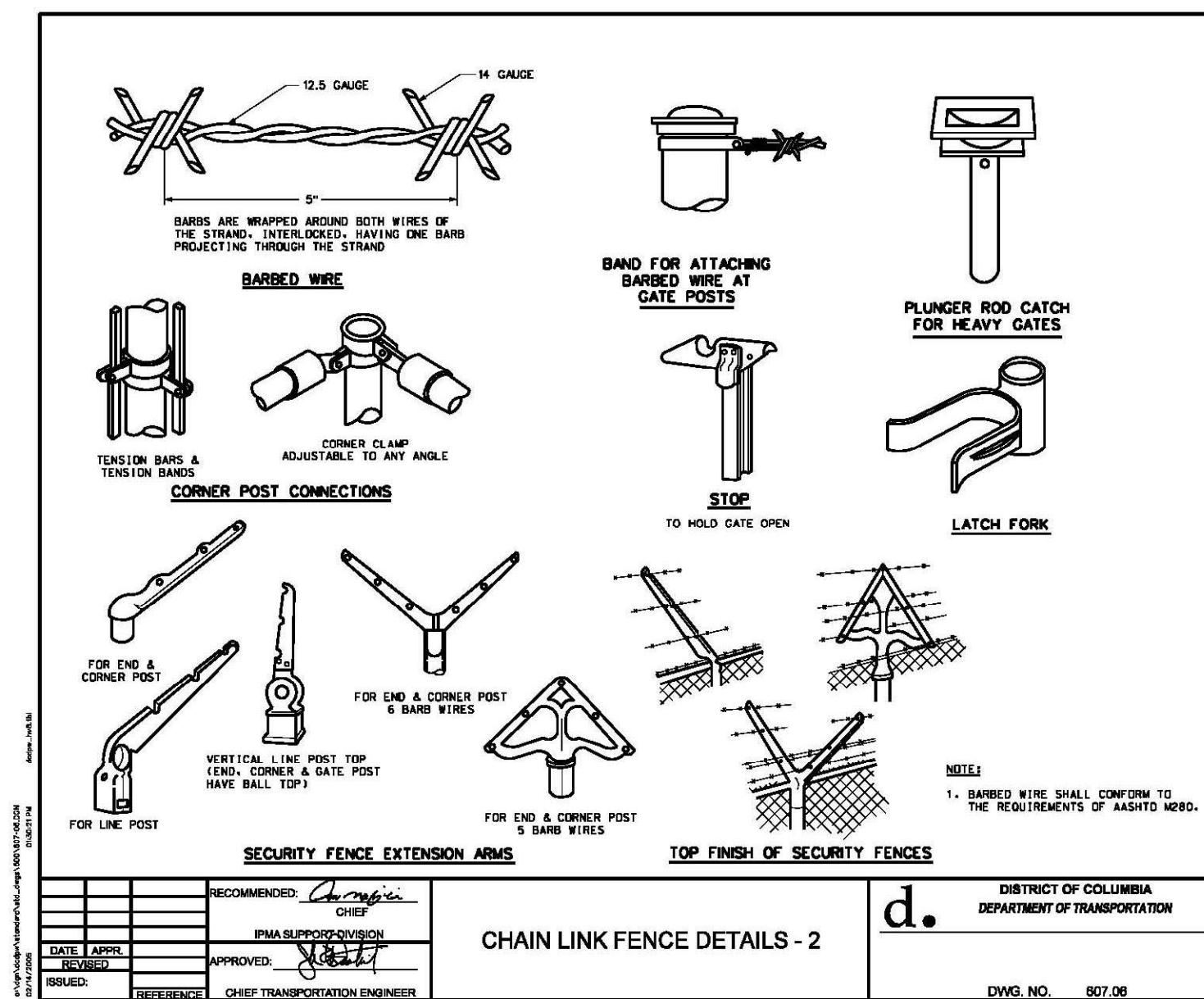
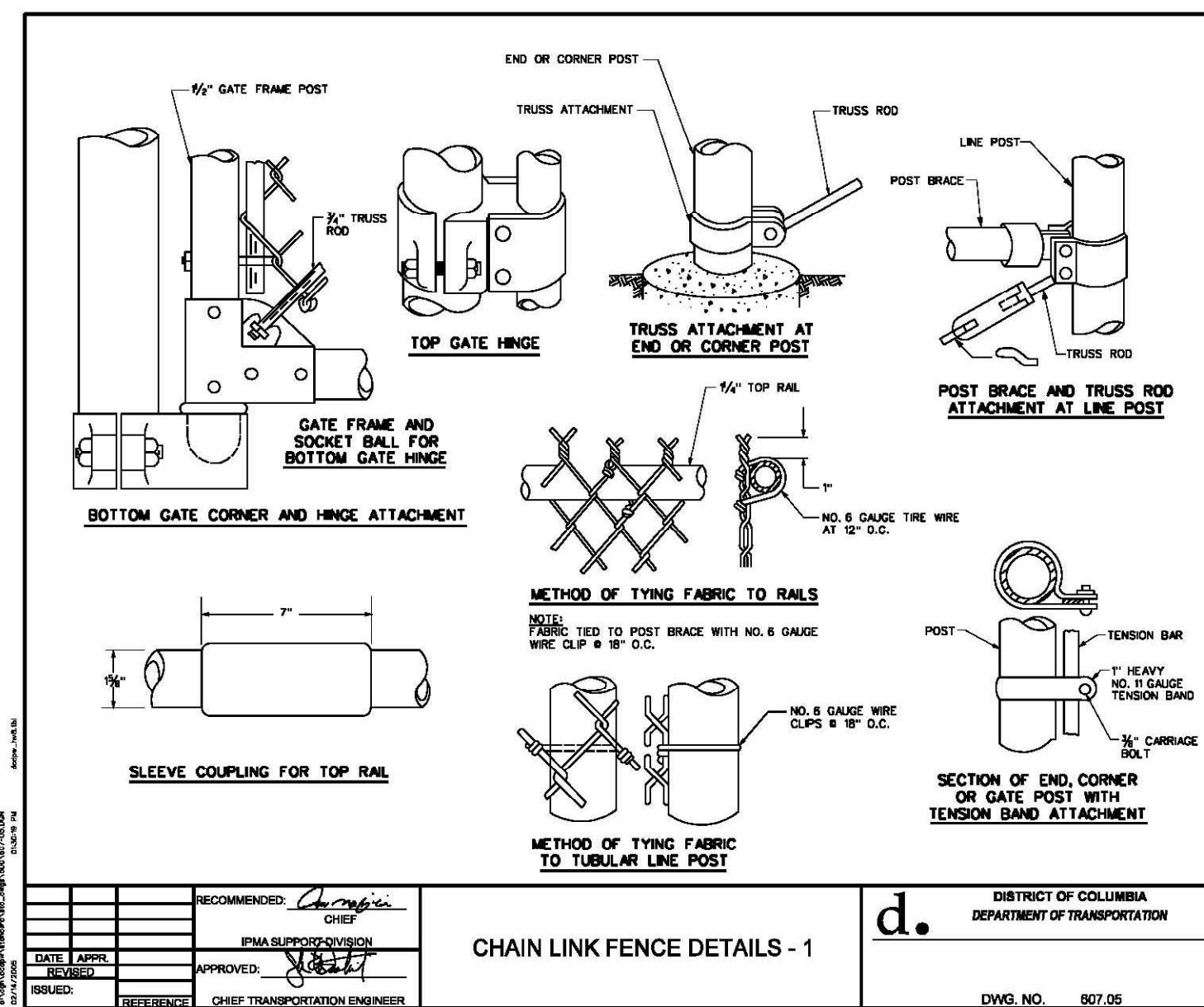
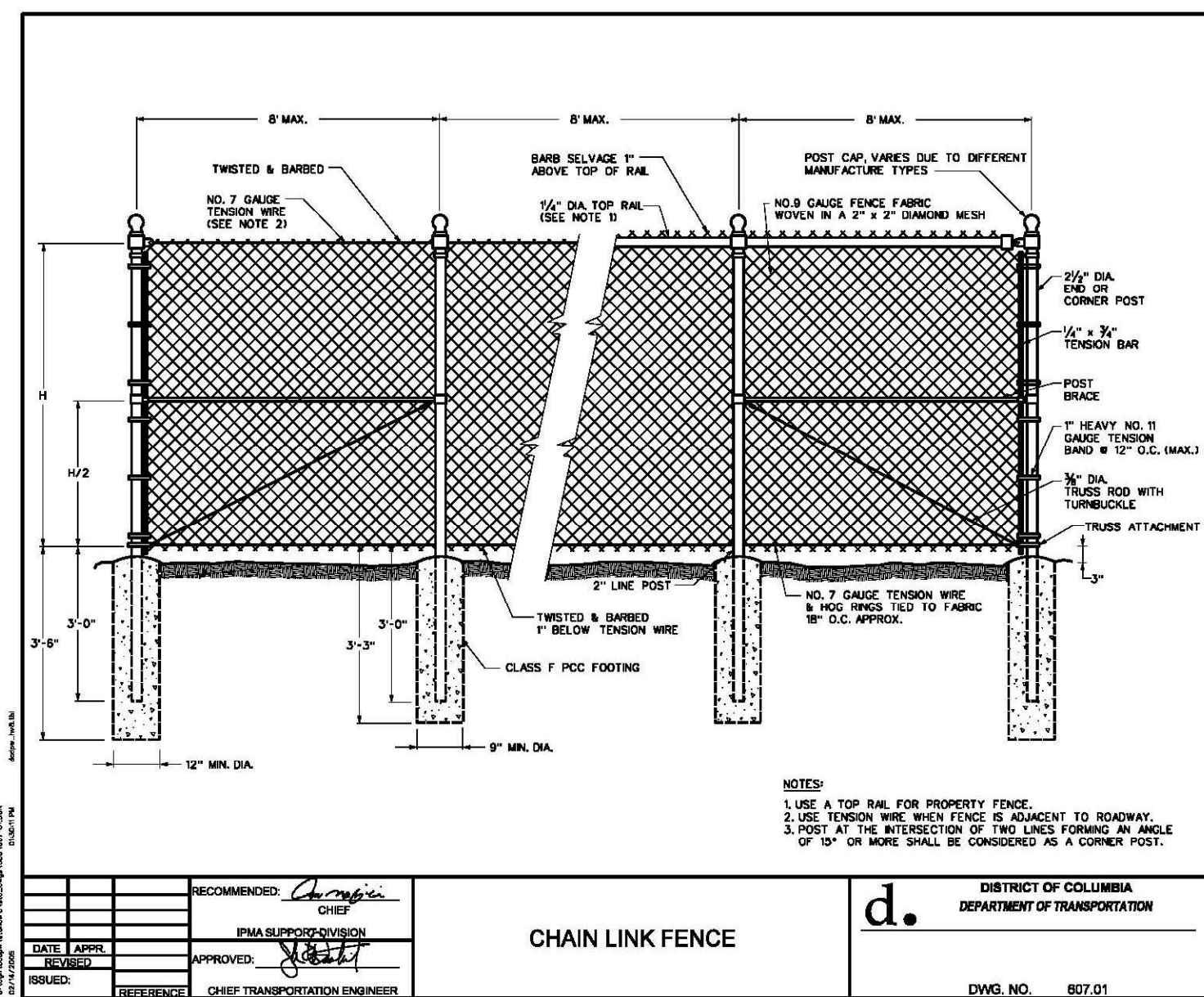
GREENHORNE & O'MARA
CONSULTING ENGINEERS

610 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE

NTS

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 Tuesday, April 28, 2009 AT 02:41 PM
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

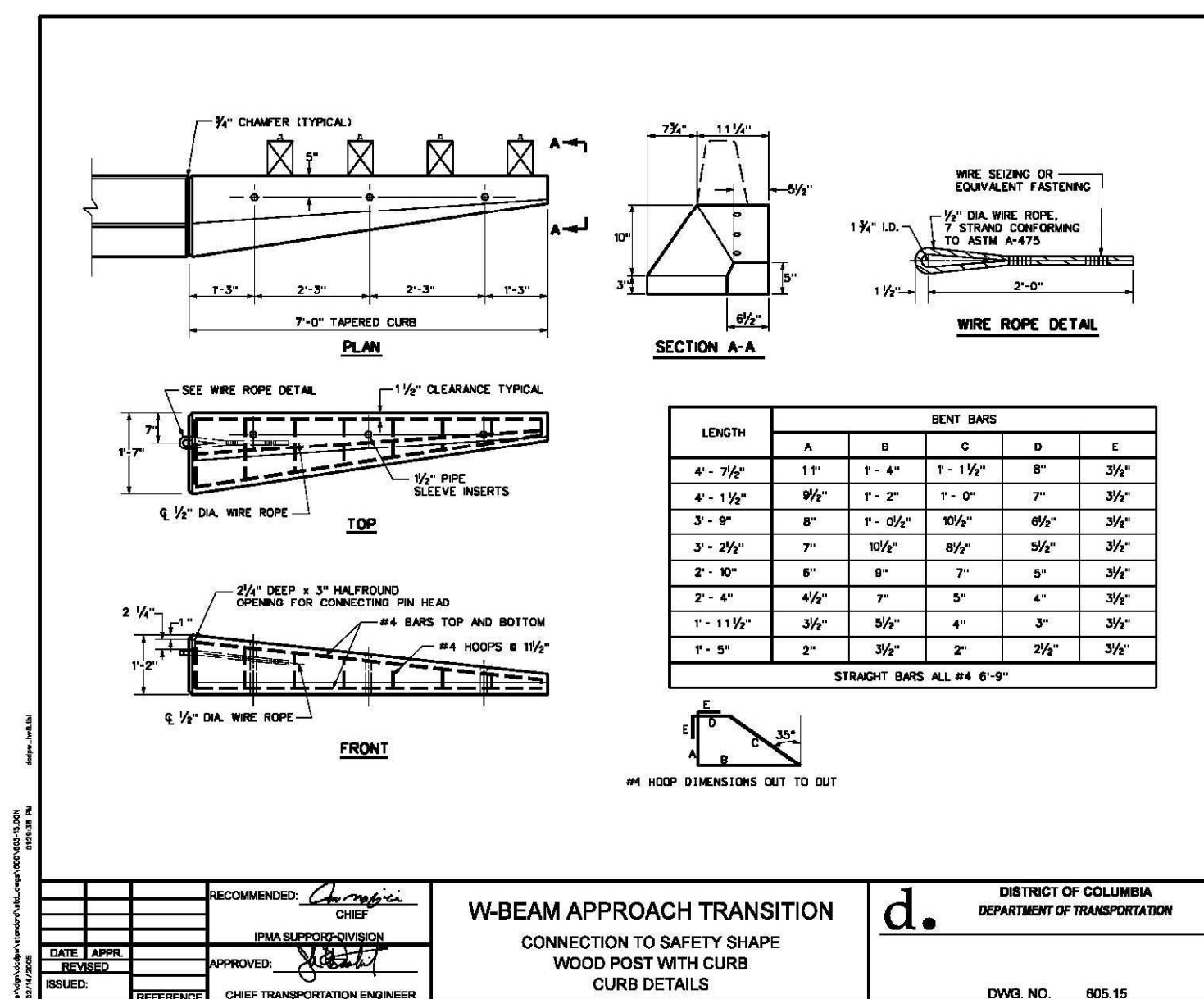
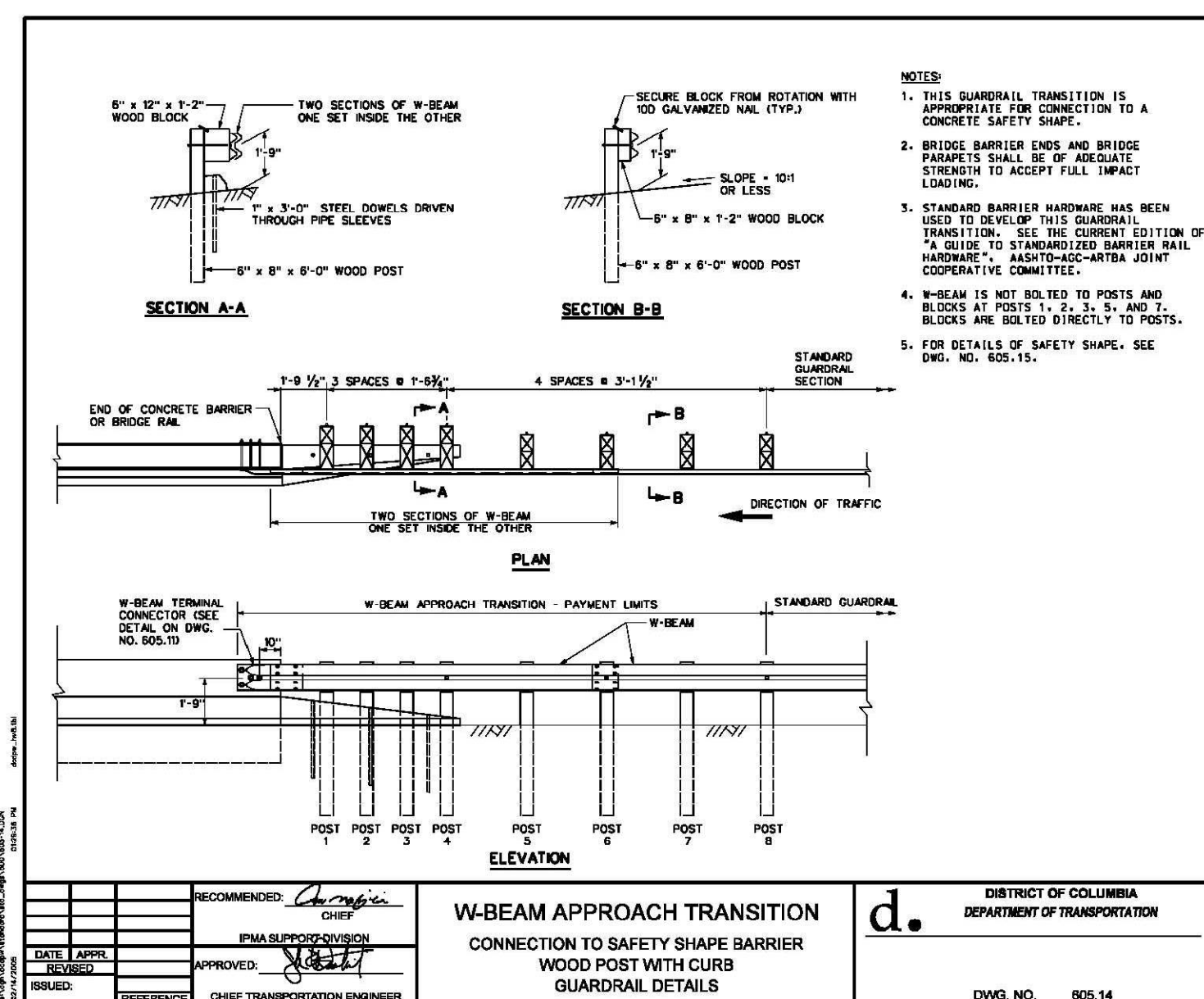
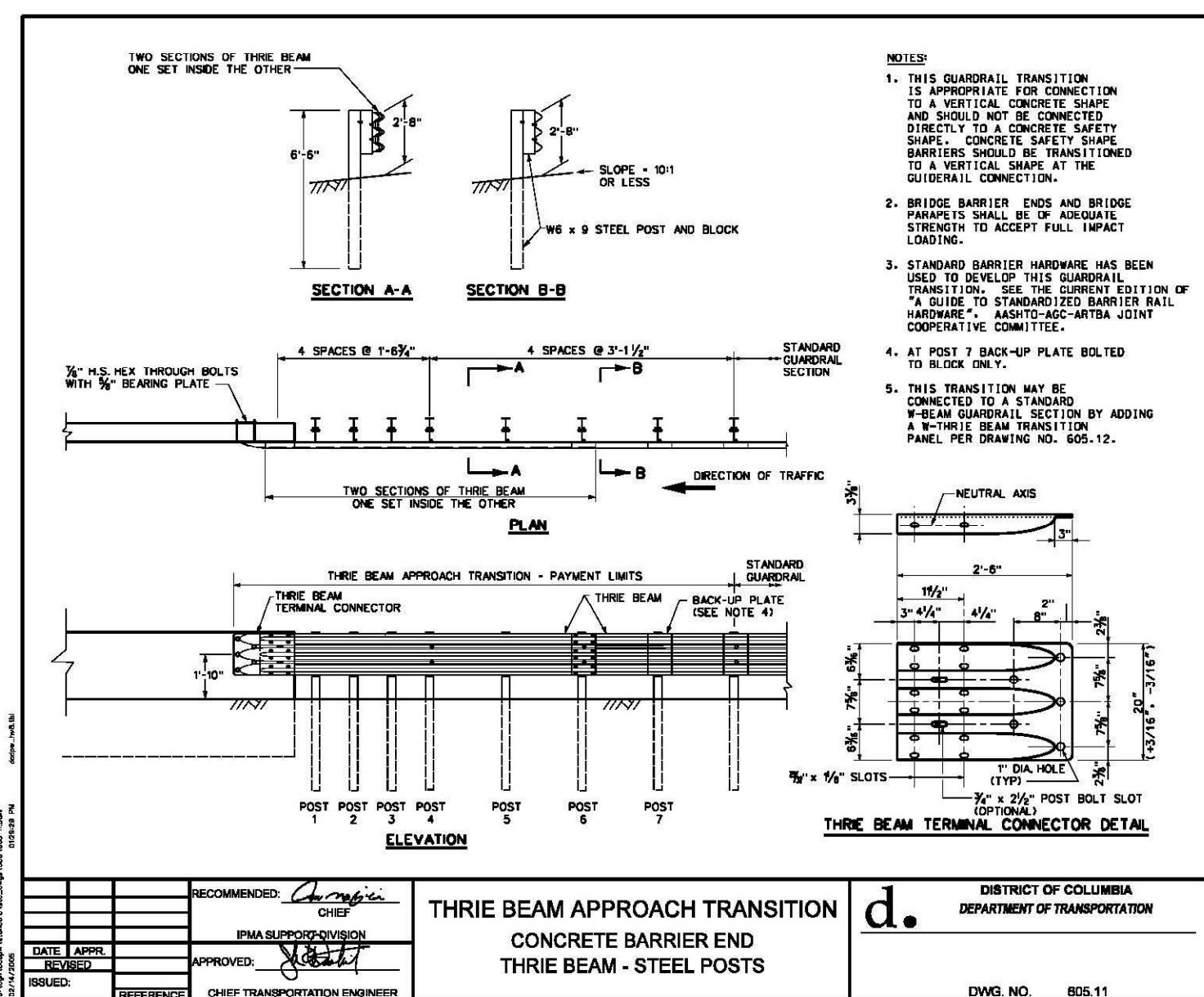
DE-03

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MISCELLANEOUS DETAILS

PROJECT ENG. <u>LRH</u> DESIGNED BY <u>LRH</u> CHECKED BY <u>SJS</u> DRAWN BY <u>LMM</u> PROJECT MGR. <u>LRH</u>	DIVISION CHIEF
DATE _____	FILE _____



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REVISIONS			

DE-04

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

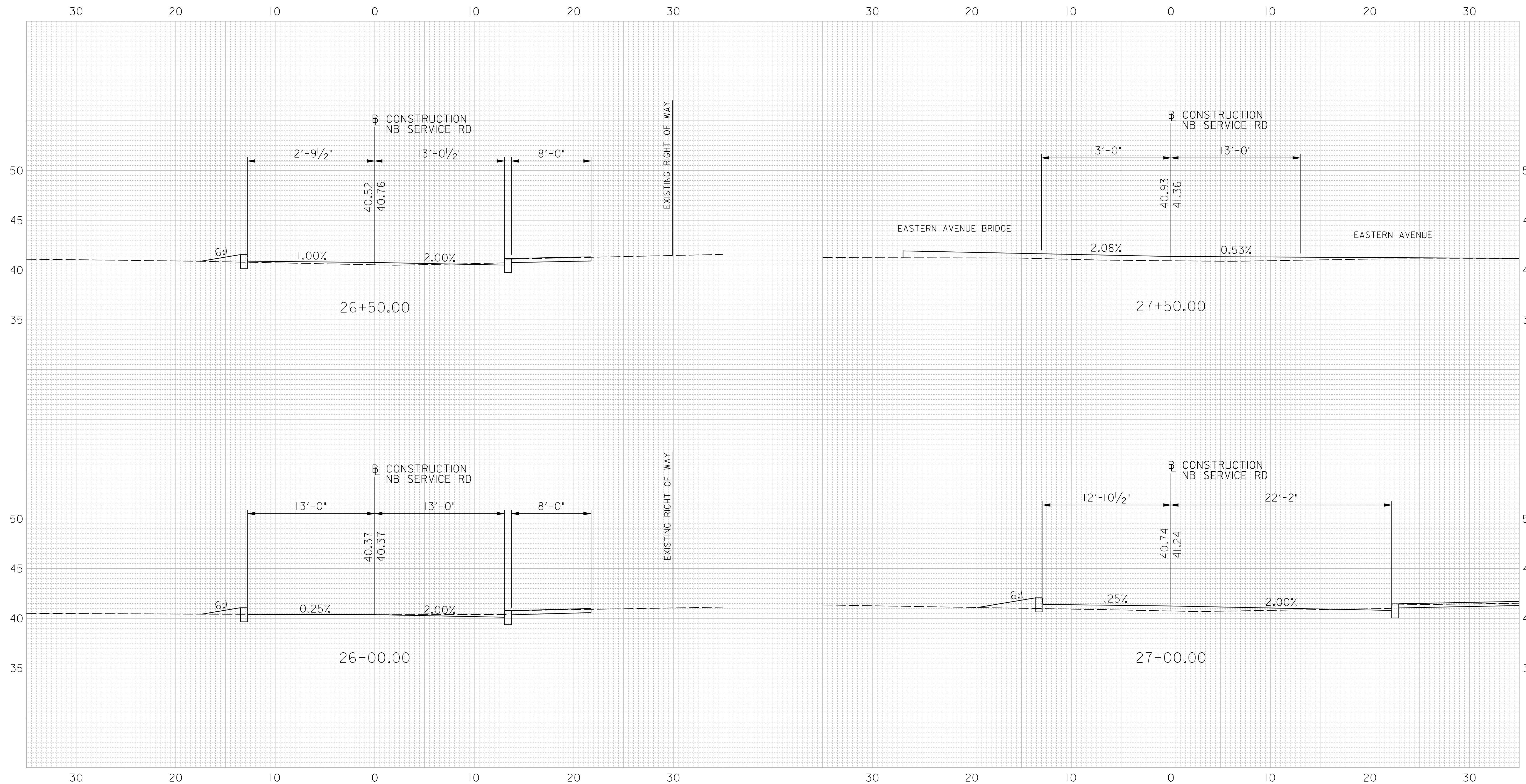
RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

MISCELLANEOUS DETAILS

PROJECT ENG. LRH
 DESIGNED BY LRH
 CHECKED BY SJS
 DRAWN BY LMM
 PROJECT MGR. LRH

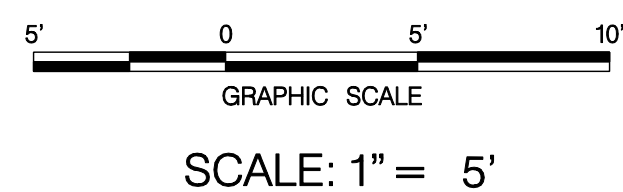
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DATE _____
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 \$PLTDRVS\$

- NOTES:
- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
 - THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.



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CONSULTING ENGINEERS

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 www.g-and-o.com

FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

NO.	DESCRIPTION	NAME	DATE

REVISIONS

CS-01

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

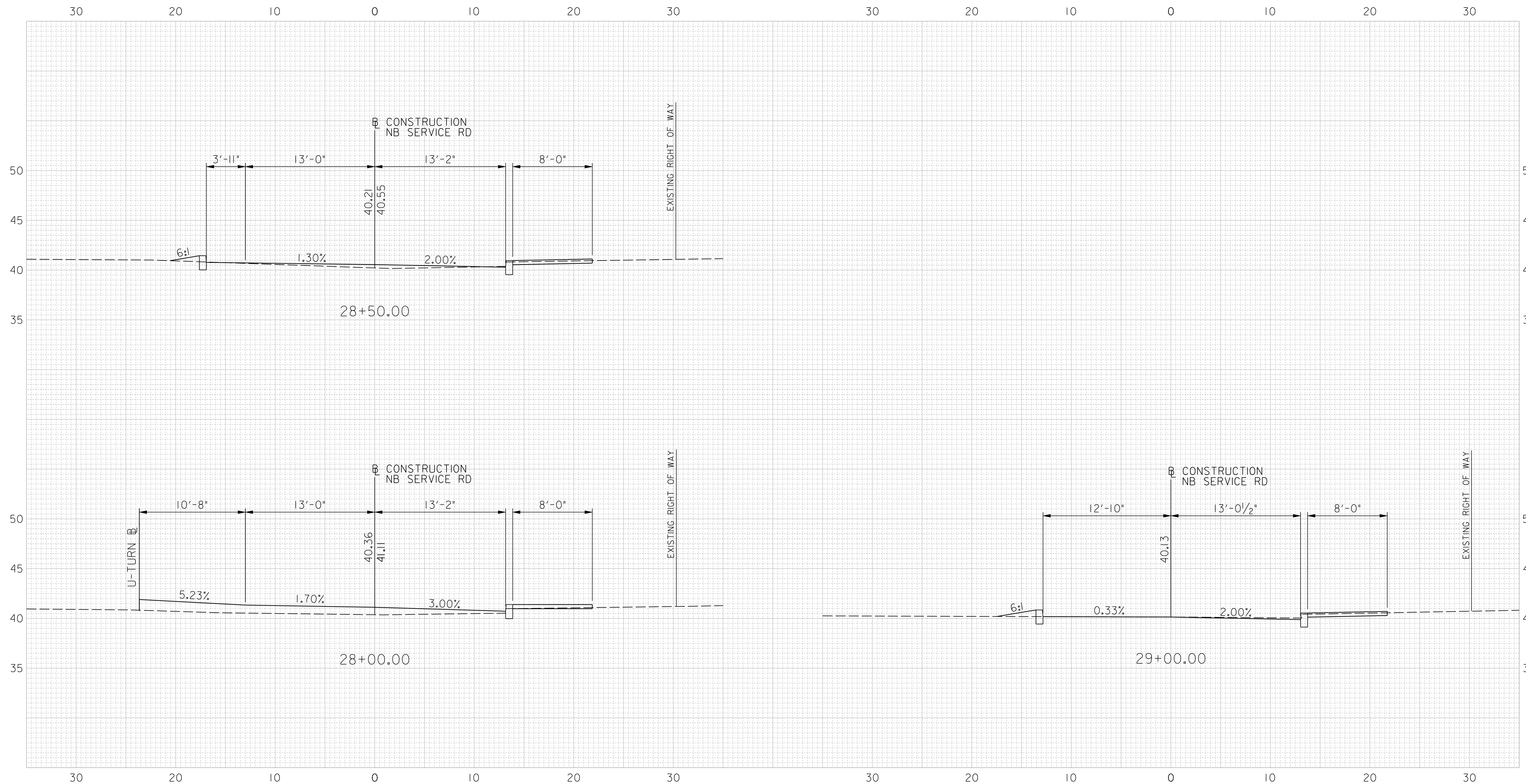
EASTERN AVENUE AT
 KENILWORTH AVENUE

CROSS SECTIONS
 NORTHBOUND SERVICE ROAD

PROJECT ENG. LRH
 DESIGNED BY LRH
 CHECKED BY SJS
 DRAWN BY LMM
 PROJECT MGR. LRH

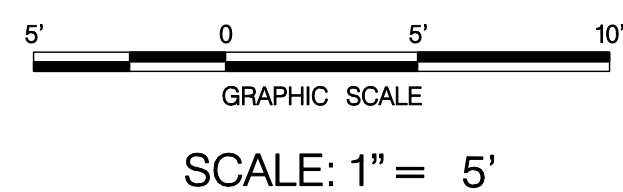
DIVISION CHIEF

DATE _____
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- NOTES:
- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
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FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

NO	DESCRIPTION	NAME	DATE
REVISIONS			

CS-02

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

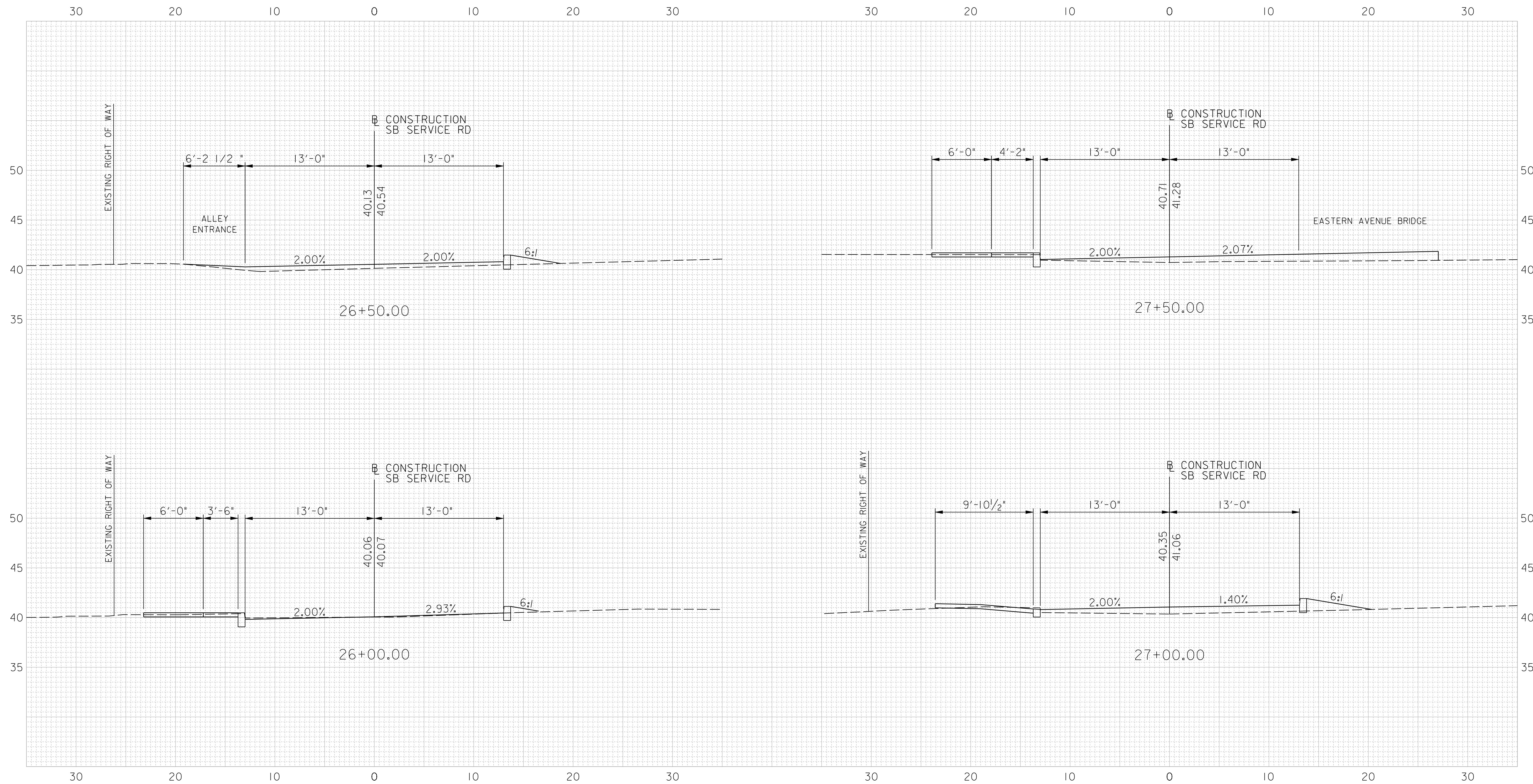
EASTERN AVENUE AT
 KENILWORTH AVENUE

CROSS SECTIONS
 NORTHBOUND SERVICE ROAD

PROJECT ENG. LRH
 DESIGNED BY LRH
 CHECKED BY SJS
 DRAWN BY LMM
 PROJECT MGR. LRH

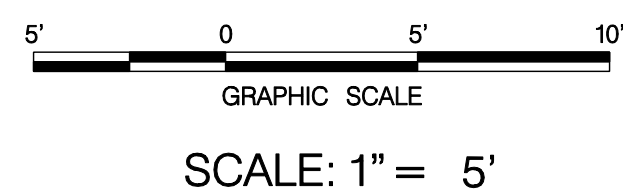
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DATE _____
 FILE _____



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- NOTES:**
- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
 - THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.



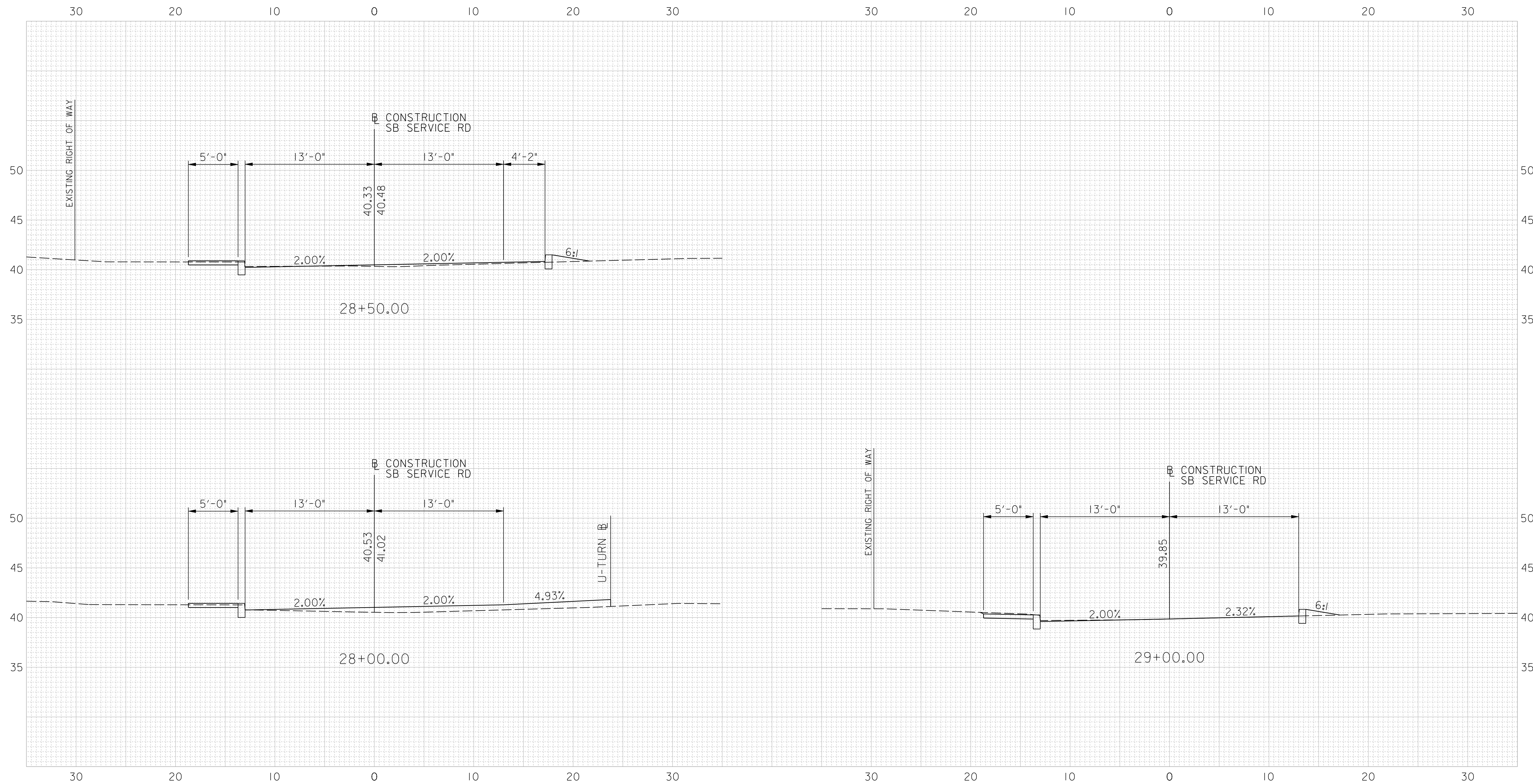
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FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

NO	DESCRIPTION	NAME	DATE
REVISIONS			

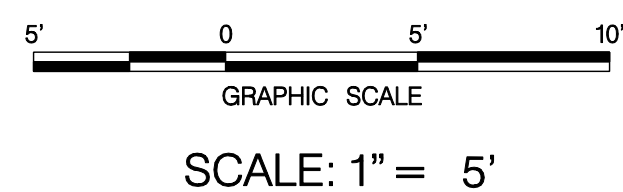
CS-03 D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
EASTERN AVENUE AT KENILWORTH AVENUE	PROJECT ENG. <u>LRH</u> DESIGNED BY <u>LRH</u> CHECKED BY <u>SJS</u> DRAWN BY <u>LMM</u> PROJECT MGR. <u>LRH</u>
CROSS SECTIONS SOUTHBOUND SERVICE ROAD	
DIVISION CHIEF DATE _____ FILE _____	



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NOTES:

- ALL COORDINATES ARE BASED OFF MARYLAND PLANE COORDINATES AND ELEVATIONS ARE BASED ON DISTRICT OF COLUMBIA DATUM.
- THE ELEVATION INFORMATION SHOWN ON THESE PLANS IS FROM AERIAL PHOTOGRAMETRY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF ANY MATERIALS.



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FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

NO.	DESCRIPTION	NAME	DATE

REVISIONS

CS-04

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

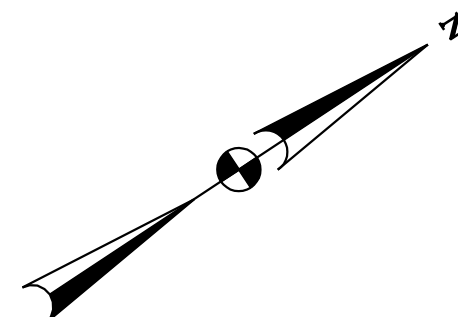
EASTERN AVENUE AT
 KENILWORTH AVENUE

CROSS SECTIONS
 SOUTHBOUND SERVICE ROAD

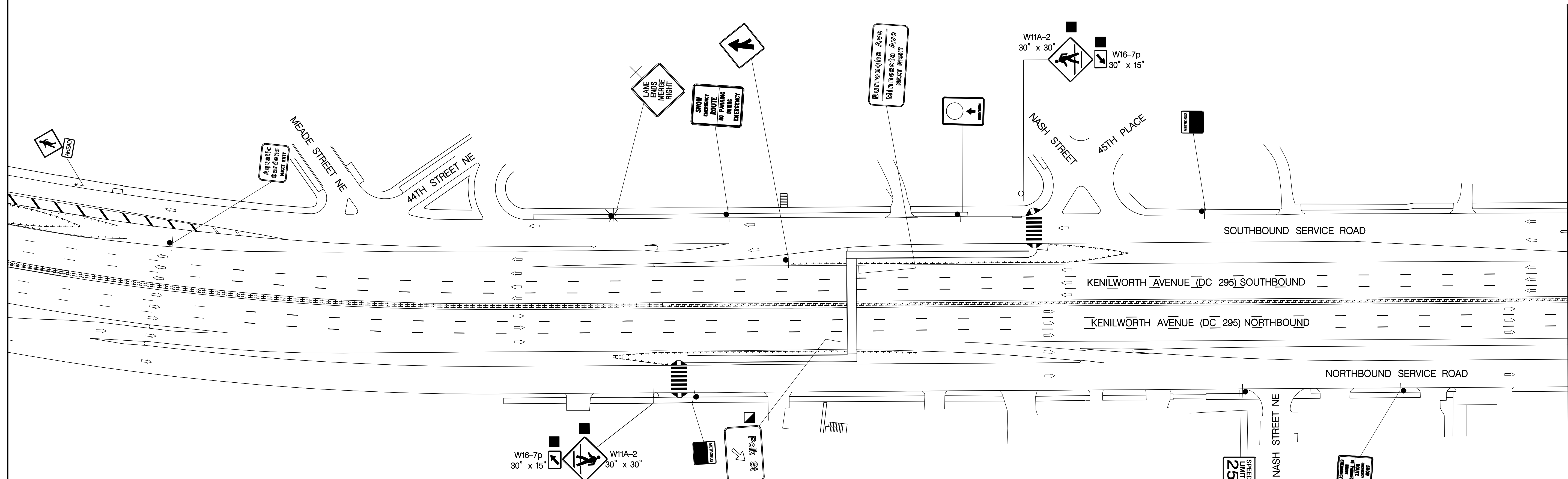
PROJECT ENG. LRH
 DESIGNED BY LRH
 CHECKED BY SJS
 DRAWN BY LMM
 PROJECT MGR. LRH

DIVISION CHIEF

DATE _____
 FILE _____



NOTE: ALL MARKINGS SHOWN ON THIS SHEET ARE EXISTING



MATCH LINE - SEE SHEET SN 02

- LEGEND:**
ALL SIGNS SHOWN ARE EXISTING AND ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- ✕ EXISTING SIGN TO BE REMOVED.
 - ⊘ EXISTING SIGN TO BE REPLACED WITH SAME MESSAGE.
 - PROPOSED SIGN TO BE INSTALLED.
 - △ SIGN TO BE RELOCATED (FROM △ TO ▲)
 - ◻ EXISTING SIGN TO BE RETURNED TO ORIGINAL POSITION AFTER TEMPORARY REMOVAL OR RELOCATION DURING MOT.
 - EXISTING SIGN MOUNT LOCATION (TO REMAIN)
 - ✕ EXISTING SIGN MOUNT LOCATION (TO BE REMOVED OR RELOCATED)
 - PROPOSED SIGN (MOUNTED ON WOOD POST UNLESS OTHERWISE NOTED)
 - PROPOSED SIGN MOUNTED ON PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH TRANSFORMER BASE
 - ◻ PROPOSED SIGN MOUNTED ON PROPOSED 28-FOOT PENDANT POLE WITH LUMINAIRE AND TRANSFORMER BASE
 - ⇨ DIRECTION OF TRAFFIC
 - ↩ PROPOSED PAVEMENT MARKING ARROW

SCALE: 1" = 50'

SN 01

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. JDS DESIGNED BY JDS CHECKED BY JMC DRAWN BY STK/SIL PROJECT MGR. JDS
SIGNING AND PAVEMENT MARKING PLAN	DIVISION CHIEF DATE _____ FILE _____

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CONSULTING ENGINEERS

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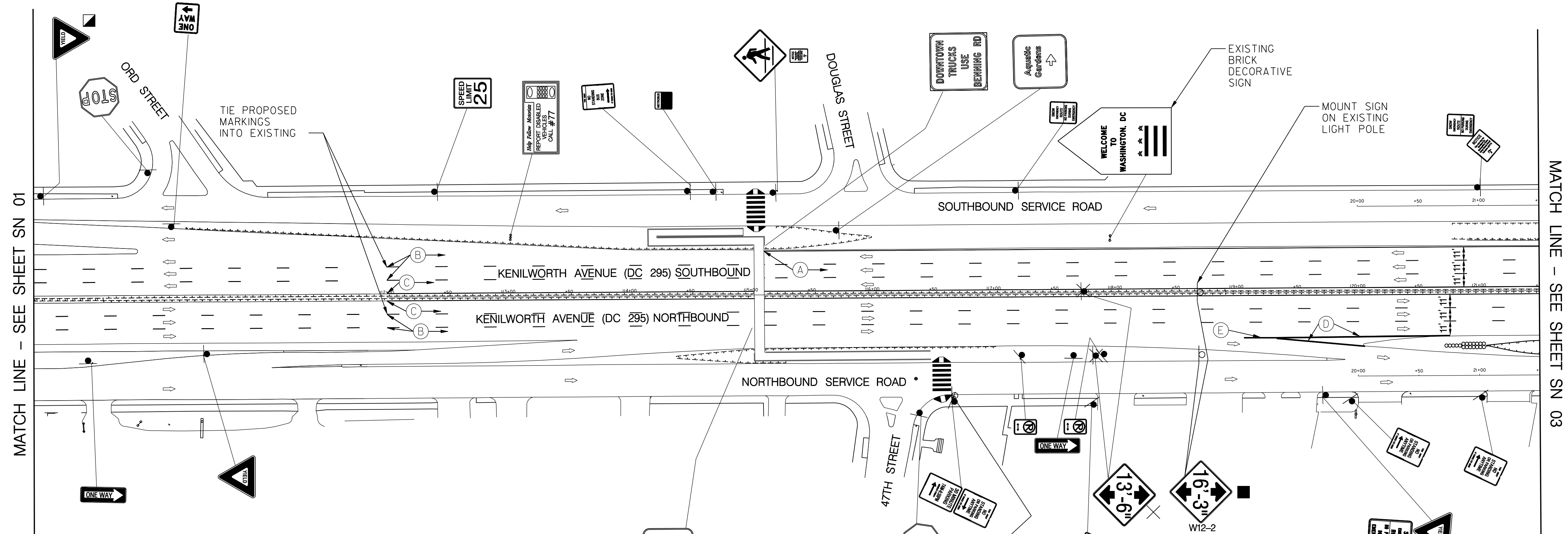
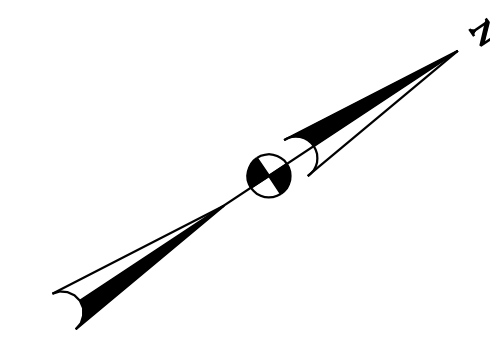
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REVISIONS			

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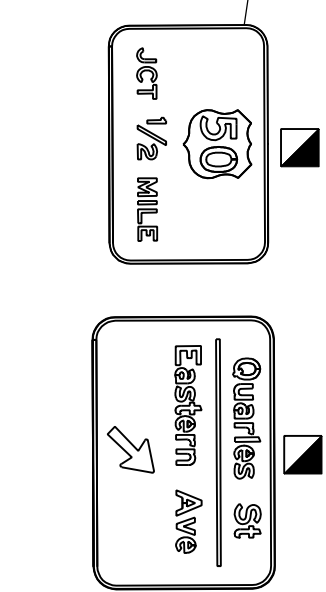
- DC PERMANENT PAVEMENT MARKING LEGEND**
- (A) 6" SOLID WHITE PERMANENT LINE STRIPING
 - (B) 6" DASHED WHITE PERMANENT LINE STRIPING (10' LINE, 30' GAP)
 - (C) 6" SOLID YELLOW PERMANENT LINE STRIPING
 - (D) 12" SOLID WHITE PERMANENT LINE STRIPING
 - (E) 8" SOLID WHITE PERMANENT LINE STRIPING

NOTE:

- RECESSED RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON MAINLINE KENILWORTH AVENUE IN THE DISTRICT OF COLUMBIA AS PER DDOT STD. DWG. NOS. 616.01, 616.03, AND 616.04.



- LEGEND:**
- ⊗ EXISTING SIGN TO BE REMOVED.
 - ⊘ EXISTING SIGN TO BE REPLACED WITH SAME MESSAGE.
 - PROPOSED SIGN TO BE INSTALLED.
 - △ SIGN TO BE RELOCATED (FROM △ TO ▲)
 - ◻ EXISTING SIGN TO BE RETURNED TO ORIGINAL POSITION AFTER TEMPORARY REMOVAL OR RELOCATION DURING MOT.
 - EXISTING SIGN MOUNT LOCATION (TO REMAIN)
 - ⊗ EXISTING SIGN MOUNT LOCATION (TO BE REMOVED OR RELOCATED)
 - ⊖ PROPOSED SIGN (MOUNTED ON WOOD POST UNLESS OTHERWISE NOTED)
 - PROPOSED SIGN MOUNTED ON PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH TRANSFORMER BASE
 - PROPOSED SIGN MOUNTED ON PROPOSED 28-FOOT PENDANT POLE WITH LUMINAIRE AND TRANSFORMER BASE
 - ⇨ DIRECTION OF TRAFFIC
 - ➔ PROPOSED PAVEMENT MARKING ARROW



SCALE: 1" = 50'

SN 02

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

SIGNING
AND
PAVEMENT MARKING PLAN

PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
DESIGNED BY <u>JDS</u>	DATE _____
CHECKED BY <u>JMC</u>	FILE _____
DRAWN BY <u>STK/SIL</u>	
PROJECT MGR. <u>JDS</u>	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

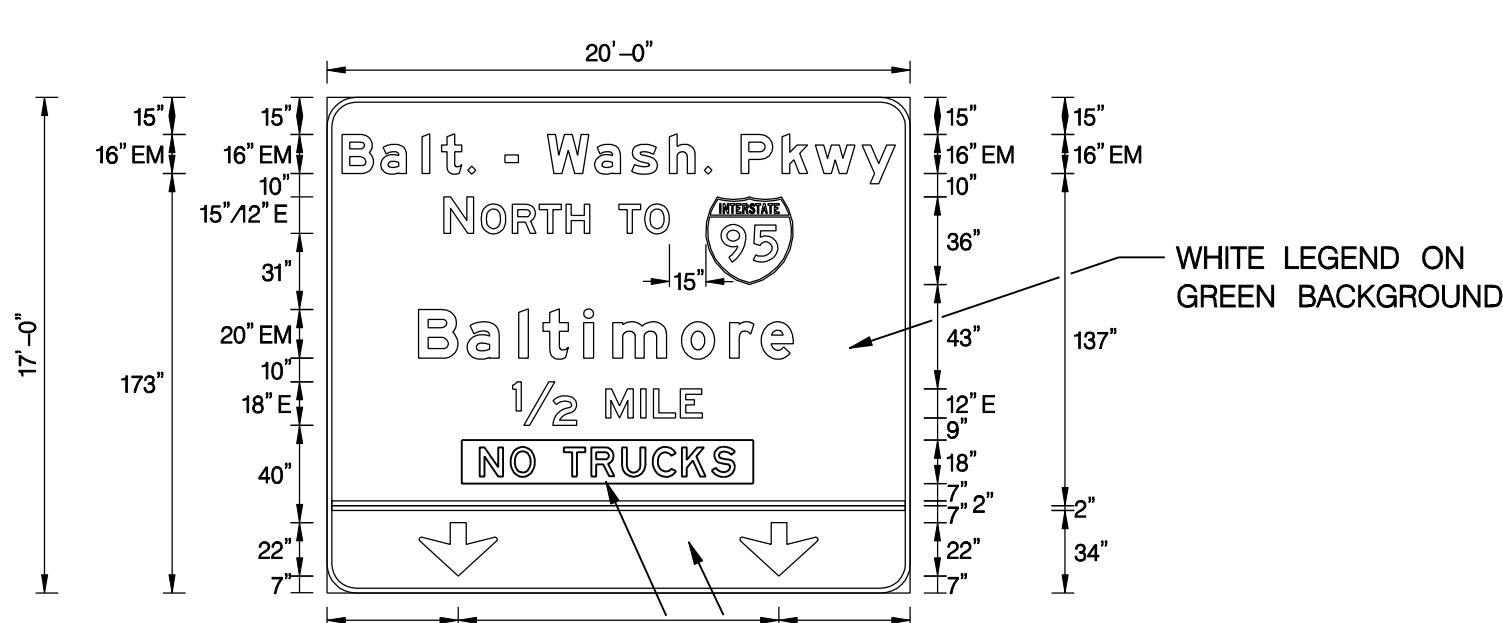
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	32	242

SPECIAL SIGN DETAIL

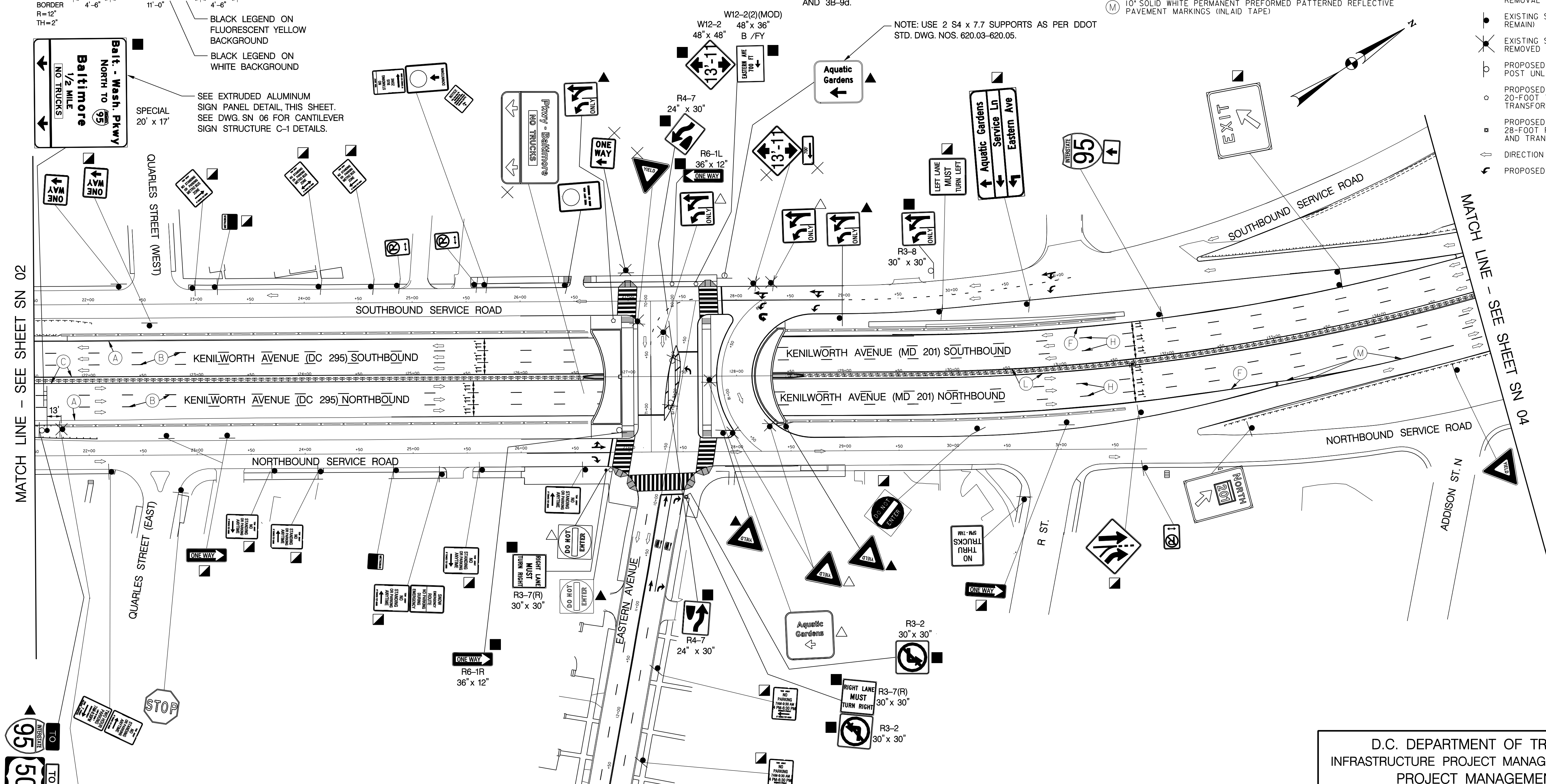


- DC PERMANENT PAVEMENT MARKING LEGEND
- (A) 6" SOLID WHITE PERMANENT LINE STRIPING
 - (B) 6" DASHED WHITE PERMANENT LINE STRIPING (10' LINE, 30' GAP)
 - (C) 6" SOLID YELLOW PERMANENT LINE STRIPING
 - (D) 12" SOLID WHITE PERMANENT LINE STRIPING
 - (E) 8" SOLID WHITE PERMANENT LINE STRIPING

- NOTES:
- FOR INTERSECTION PAVEMENT MARKING DETAIL, PLEASE SEE DWG. SN 05.
 - RECESSED RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON MAINLINE KENILWORTH AVENUE IN THE DISTRICT OF COLUMBIA AS PER DDOT STD. DWG. NOS. 616.01, 616.03, AND 616.04.
 - RECESSED RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON MAINLINE KENILWORTH AVENUE IN MARYLAND AS PER 2006 MD-MUTCD FIGURES 3A-1, 3B-7c, 3B-9b, AND 3B-9d.

- MARYLAND PERMANENT PAVEMENT MARKING LEGEND
- (F) 5" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (INLAID TAPE)
 - (G) 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP) (NOT INLAID)
 - (H) 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP) (INLAID TAPE)
 - (J) 10" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (3' LINE, 9' GAP) (INLAID TAPE)
 - (K) 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE CONTRAST PAVEMENT MARKINGS (PPRCP) (10' LINE, 30' GAP)
 - (L) 5" SOLID YELLOW PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (INLAID TAPE)
 - (M) 10" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (INLAID TAPE)

- LEGEND:
- ALL SIGNS SHOWN ARE EXISTING AND ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- ✕ EXISTING SIGN TO BE REMOVED.
 - ⊗ EXISTING SIGN TO BE REPLACED WITH SAME MESSAGE.
 - PROPOSED SIGN TO BE INSTALLED.
 - △ SIGN TO BE RELOCATED (FROM △ TO ▲)
 - ◻ EXISTING SIGN TO BE RETURNED TO ORIGINAL POSITION AFTER TEMPORARY REMOVAL OR RELOCATION DURING MOT.
 - ⋅ EXISTING SIGN MOUNT LOCATION (TO REMAIN)
 - ✕ EXISTING SIGN MOUNT LOCATION (TO BE REMOVED OR RELOCATED)
 - ⊖ PROPOSED SIGN (MOUNTED ON WOOD POST UNLESS OTHERWISE NOTED)
 - PROPOSED SIGN MOUNTED ON PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH TRANSFORMER BASE
 - ◻ PROPOSED SIGN MOUNTED ON PROPOSED 28-FOOT PENDANT POLE WITH LUMINAIRE AND TRANSFORMER BASE
 - ⇨ DIRECTION OF TRAFFIC
 - ➔ PROPOSED PAVEMENT MARKING ARROW



MATCH LINE - SEE SHEET SN 02

MATCH LINE - SEE SHEET SN 04

SCALE: 1" = 50'



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CONSULTING ENGINEERS
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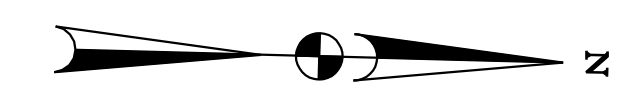
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

<p>D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION</p>		SN 03
<p>RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.</p>		<p>PROJECT ENG. JDS DESIGNED BY JDS CHECKED BY JMC DRAWN BY STK/SIL PROJECT MGR. JDS</p>
<p>SIGNING AND PAVEMENT MARKING PLAN</p>		<p>DIVISION CHIEF</p> <p>DATE _____ FILE _____</p>

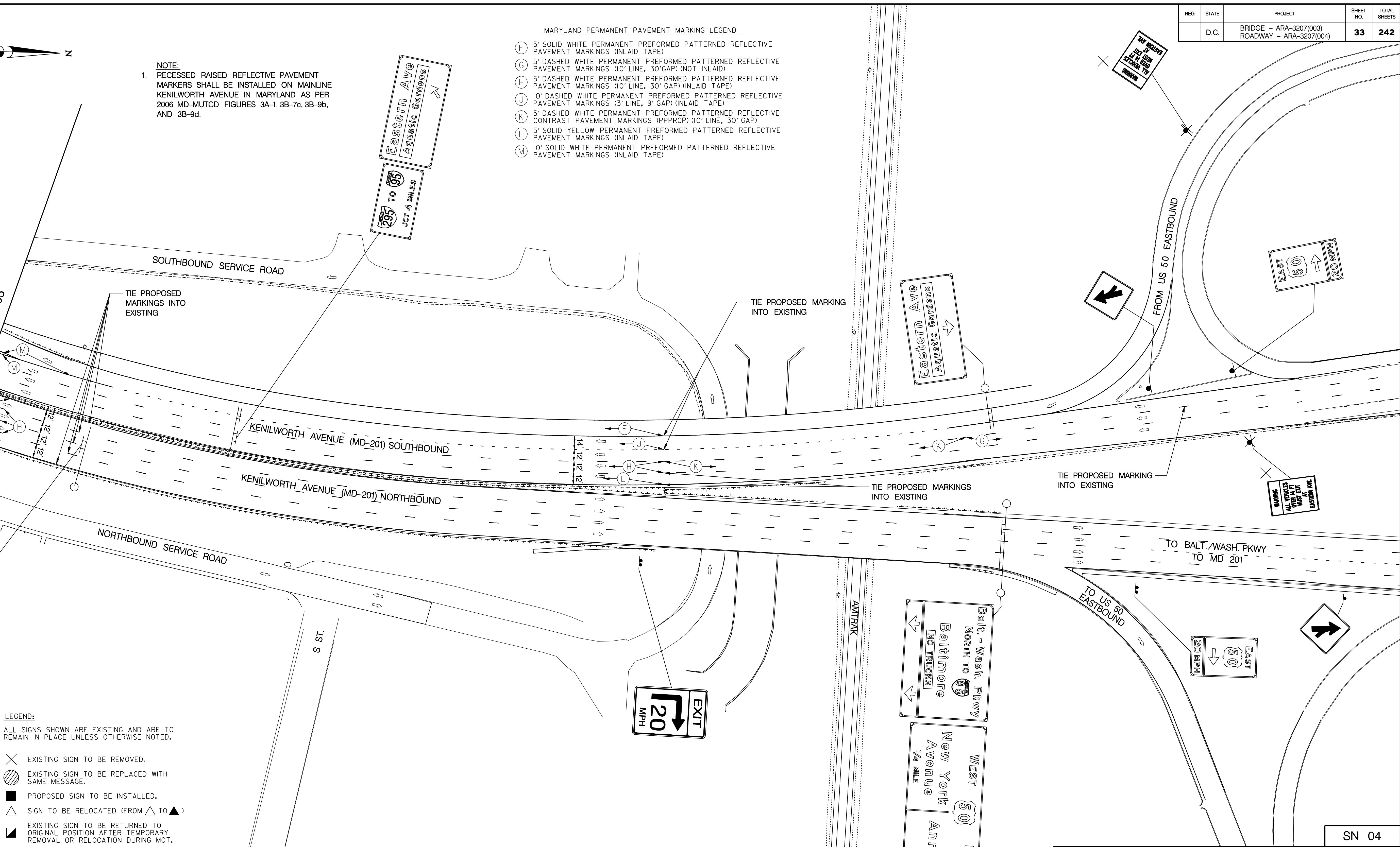
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	33	242

- MARYLAND PERMANENT PAVEMENT MARKING LEGEND
- (F) 5" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (INLAID TAPE)
 - (G) 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP) (NOT INLAID)
 - (H) 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP) (INLAID TAPE)
 - (J) 10" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (3' LINE, 9' GAP) (INLAID TAPE)
 - (K) 5" DASHED WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE CONTRAST PAVEMENT MARKINGS (PPRCP) (10' LINE, 30' GAP)
 - (L) 5" SOLID YELLOW PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (INLAID TAPE)
 - (M) 10" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS (INLAID TAPE)

NOTE:
1. RECESSED RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON MAINLINE KENILWORTH AVENUE IN MARYLAND AS PER 2006 MD-MUTCD FIGURES 3A-1, 3B-7c, 3B-9b, AND 3B-9d.



MATCH LINE - SEE SHEET SN 03



- LEGEND:
- ⊗ EXISTING SIGN TO BE REMOVED.
 - ⊘ EXISTING SIGN TO BE REPLACED WITH SAME MESSAGE.
 - PROPOSED SIGN TO BE INSTALLED.
 - △ SIGN TO BE RELOCATED (FROM △ TO ▲)
 - ◻ EXISTING SIGN TO BE RETURNED TO ORIGINAL POSITION AFTER TEMPORARY REMOVAL OR RELOCATION DURING MOT.
 - EXISTING SIGN MOUNT LOCATION (TO REMAIN)
 - ⊗ EXISTING SIGN MOUNT LOCATION (TO BE REMOVED OR RELOCATED)
 - PROPOSED SIGN (MOUNTED ON WOOD POST UNLESS OTHERWISE NOTED)
 - PROPOSED SIGN MOUNTED ON PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH TRANSFORMER BASE
 - PROPOSED SIGN MOUNTED ON PROPOSED 28-FOOT PENDANT POLE WITH LUMINAIRE AND TRANSFORMER BASE
 - ⇄ DIRECTION OF TRAFFIC
 - ➔ PROPOSED PAVEMENT MARKING ARROW

SCALE: 1" = 50'

SN 04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

SIGNING
AND
PAVEMENT MARKING PLAN

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

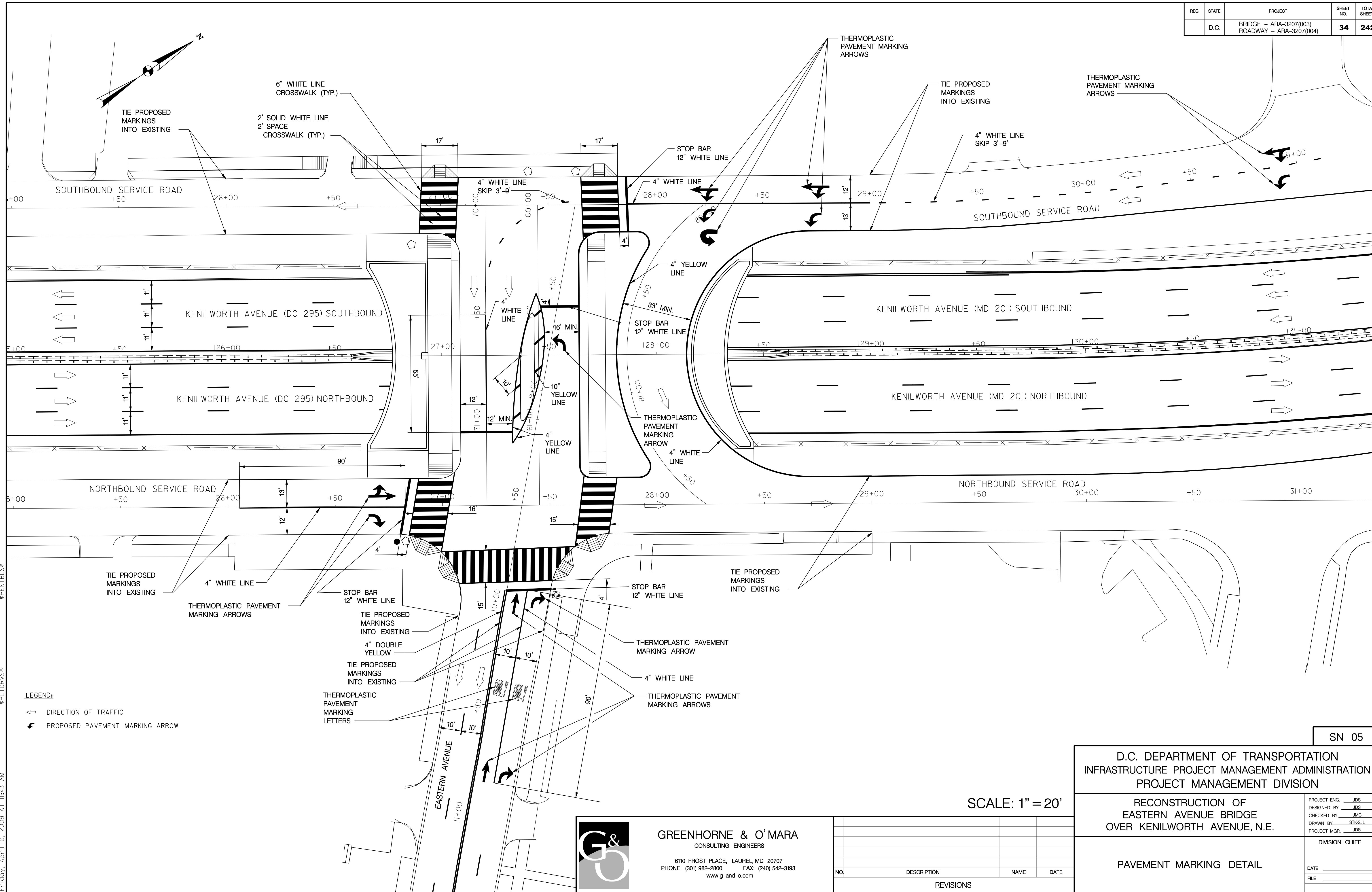
GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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 Friday, April 10, 2009 AT 11:33 AM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	34	242



LEGEND:
 ⇨ DIRECTION OF TRAFFIC
 ↖ PROPOSED PAVEMENT MARKING ARROW

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SN 05

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

PAVEMENT MARKING DETAIL

PROJECT ENG. JDS
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 CHECKED BY JMC
 DRAWN BY STK/SIL
 PROJECT MGR. JDS

DIVISION CHIEF

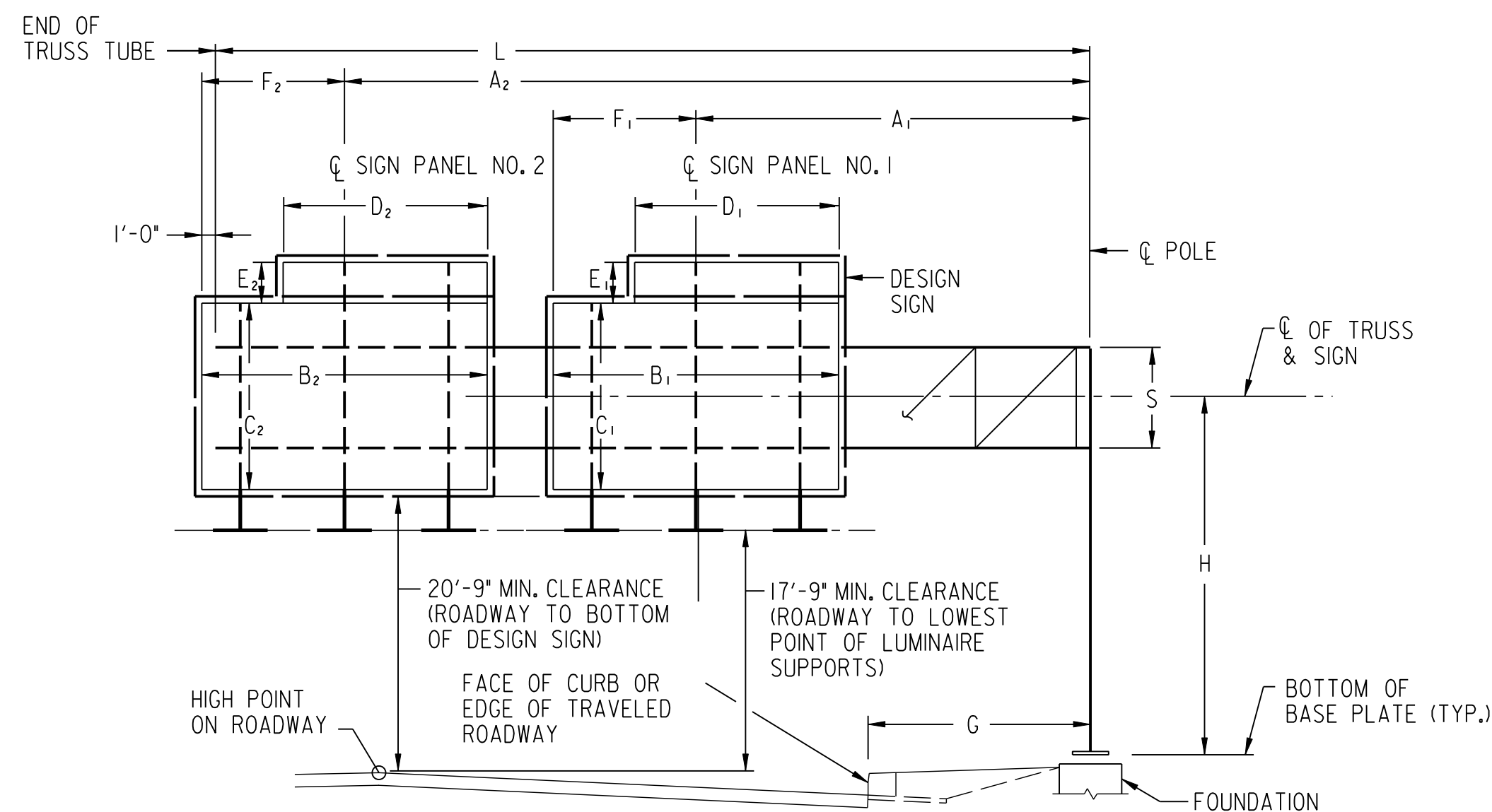
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GREENHORNE & O'MARA
 CONSULTING ENGINEERS

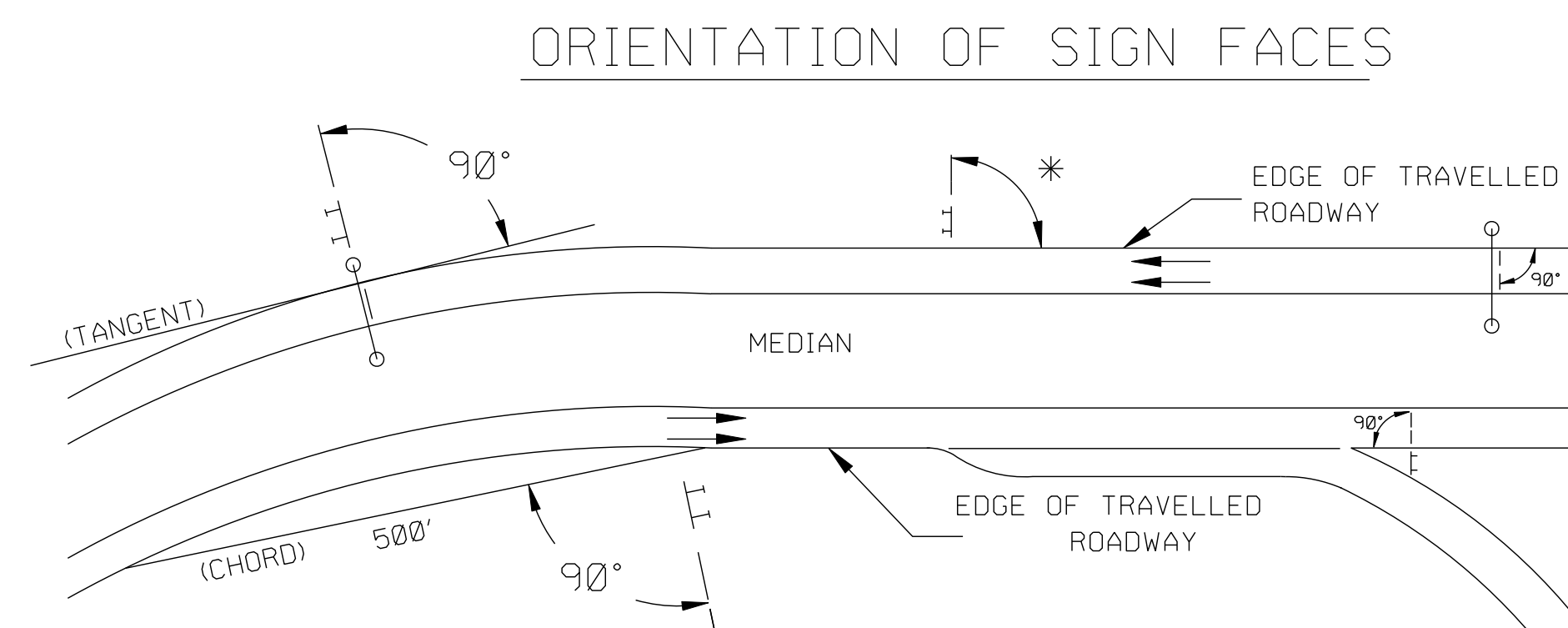
6110 FROST PLACE, LAUREL, MD 20707
 PHONE: (301) 982-2800 FAX: (240) 542-3193
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SCALE: 1" = 20'

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**ELEVATION OF CANTILEVER SIGN SUPPORT
DIRECTION OF TRAFFIC**



* UNDER 30 FEET FROM TRAVELED ROADWAY TO NEAR EDGE OF SIGN - 93° TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
OVER 30 FEET FROM TRAVELED ROADWAY TO NEAR EDGE OF SIGN - 90°

REFERENCE NOTES:

1. BOX TRUSS CANTILEVER SIGN STRUCTURE AND FOUNDATION SHALL BE DESIGNED AND FABRICATED ACCORDING TO MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA) STANDARD DRAWINGS MD-803.06 THROUGH MD-803.07-02.
2. FOR LOCATION OF THE SIGN STRUCTURE, SEE DWG. SN 03.
3. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS.

CANTILEVER SIGN SUPPORT																								
SIGN STRUCTURE NO.	STRUCTURE MARK	STRUCTURE DIMENSIONS				PANEL NO. 1						PANEL NO. 2						DESIGN SIGN SIZE* W x H	FOUNDATION			LOCATION		
		H	S	L	G	A ₁	B ₁	C ₁	D ₁	E ₁	F ₁	A ₂	B ₂	C ₂	D ₂	E ₂	F ₂		MARK	TYPE	C.Y. CONC.			
C-1	C-45-30-E	29'-6"	4'	41'	9'	32'	20'-0"	17'-0"			10'										CF-23	A	15.9	CENTERED IN GORE BETWEEN N.B. KENILWORTH AVE. & SERVICE RD, 13' SOUTH OF EX. RETAINING WALL

* DESIGN SIZE ALSO INCLUDES ONE 12"x36" EXIT PANEL

GENERAL NOTES

CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT.

DESIGN

- F H W A - "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2003 EDITION AND SUBSEQUENT REVISIONS. (M.U.T.C.D.)
- A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997
- A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MSHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 2001 EDITION AND SUBSEQUENT SUPPLEMENTS.

DESIGN WIND

100 MPH - OVERHEAD AND CANTILEVER STRUCTURES
50 YEAR RECURRENCE INTERVAL

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED)
SEE MATERIALS & CONSTRUCTION FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

PANEL LAYOUT AND ALPHABETS

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE FHWA MANUAL NOTED ABOVE.

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED.

SIGN LOCATIONS

1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.
2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

OVERHEAD SIGNS

1. VERTICAL ALIGNMENT
POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.
2. OVERHEAD SIGN STRUCTURES SHALL BE ERECTED WITH LUMINAIRE SUPPORTS AND SIGN(S) ATTACHED.
3. HORIZONTAL ALIGNMENT
A). POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
B). POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.
C). POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
4. VERTICAL CLEARANCE
A). OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.
B). IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 4A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS.
C). ON UNLIT OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN SHALL BE 20'-9".

PROJECT REQUIREMENTS

1. THE EXTRUDED ALUMINUM SIGN PANEL SHALL HAVE NON-REFLECTIVE (BLACK COPY AND BACKGROUND) OR RETROREFLECTIVE (ALL OTHER COLORS) SHEETING COPY AND BACKGROUND.
2. THE EXTRUDED ALUMINUM PANEL SHALL HAVE DEMOUNTABLE COPY.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

NOT TO SCALE



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REVISIONS			

SN 06

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**CANTILEVER SIGN STRUCTURE C-1
DETAILS AND NOTES**

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	36	242

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PUBLIC AND ALL WORKERS ON THE SITE THROUGH THE TERM OF THIS CONTRACT. THE MOTORIST MUST BE GUIDED IN A CLEAR AND POSITIVE MANNER WHILE APPROACHING AND PASSING THROUGH THE CONSTRUCTION AREA.
2. THE CONTRACTOR SHALL DEVELOP HIS CONSTRUCTION SCHEDULE WITHIN THE FRAMEWORK OF THE MAINTENANCE OF TRAFFIC (MOT) PLAN PROVIDED HEREIN. THE CONTRACTOR'S ACTIVITIES SHALL NOT CHANGE THE OPERATIONAL REQUIREMENT SET FORTH IN THIS MOT, EXCEPT AS APPROVED BY THE ENGINEER PRIOR TO EXECUTION OF CONSTRUCTION OPERATION/TASKS IN SUBSEQUENT CONSTRUCTION PHASES.
3. THE CONTRACTOR MAY USE AN ALTERNATIVE MOT PLAN SUBJECT TO APPROVAL BY THE ENGINEER. THE WORK ZONE TRANSPORTATION MANAGEMENT PLAN (TMP) INCORPORATED IN THE CONTRACT DOCUMENTS SHALL BE UPDATED ACCORDINGLY IN THIS CASE.
4. TRAFFIC CONTROL DEVICES LOCATED IN THE DISTRICT OF COLUMBIA SHALL BE INSTALLED IN CONFORMANCE WITH THE D.C. TEMPORARY TRAFFIC CONTROL MANUAL, 2006 AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), 2003 EDITION AND SUBSEQUENT REVISIONS, PRIOR TO THE BEGINNING OF THE CONTRACTOR'S OPERATIONS.
5. TRAFFIC CONTROL DEVICES LOCATED IN MARYLAND SHALL COMPLY WITH THE 2006 EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MARYLAND BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES.
6. INSTALLATION OF TRAFFIC CONTROL SIGNS AND DEVICES SHOWN IN THE PLANS IS CONSIDERED ESSENTIALLY A MINIMUM, AND DOES NOT RELEASE THE CONTRACTOR FROM HIS RESPONSIBILITY OF ENSURING SAFE CONDITIONS DURING HIS OPERATIONS.
7. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE COVERED OVER WHEN NOT APPLICABLE. THE PAYMENT IS INCLUDED IN THE "LANE CLOSURE" BID ITEM.
8. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PROVIDED ON SHIFTED LANES ON MAINLINE KENILWORTH AVENUE IN LOCATIONS CONFORMING TO DC DDOT STD. DWG. NOS. 616.01, 616.03, AND 616.04. IN MARYLAND, THE LOCATION OF TEMPORARY RAISED PAVEMENT MARKERS SHALL CONFORM TO 2006 MD-MUTCD FIGURES 3A-1, 3B-7c, 3B-9b, AND 3B-9d.
9. ANY DRAINAGE, SIGNING, LIGHTING, UTILITY, SEDIMENT CONTROL PROTECTION AND OTHER MISCELLANEOUS WORK SHALL BE PERFORMED AS THE TRAFFIC CONTROL PLAN ALLOWS.
10. ALL LEADING ENDS OF TEMPORARY CONCRETE BARRIERS EXPOSED TO ONCOMING TRAFFIC SHALL BE PROTECTED WITH AN APPROVED CRASH CUSHION COMPOSED OF SAND-FILLED PLASTIC BARRELS OR A PORTABLE IMPACT ATTENUATOR. ALL CRASH CUSHIONS AND ATTENUATORS SHALL HAVE TYPE 3 OBJECT MARKERS.
11. THE CHIEF ENGINEER WILL ROUTINELY INSPECT THE MAINTENANCE OF TRAFFIC. ALL WORK SHALL BE ORDERED STOPPED UNTIL THE DEFICIENCIES DULY NOTED AND CITED ARE PROMPTLY CORRECTED.
12. TEMPORARY REFLECTIVE PAVEMENT TAPE OF THE APPROVED TYPE SHALL BE USED TO DESIGNATE TRAFFIC LANES. TEMPORARY PAINT MAY BE USED IN AREAS SCHEDULED FOR LATER RESURFACING, PROVIDED THAT MINIMUM REFLECTIVITY IS MAINTAINED AS PER THE CONTRACT SPECIFICATIONS. ALL PAVEMENT MARKINGS SHALL BE WHITE OR YELLOW AS INDICATED ON THE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF PEDESTRIAN TRAFFIC DURING ALL PHASES OF CONSTRUCTION. THIS SHALL INCLUDE ACCESS TO ISLANDS, SHOULDERS, SIDEWALKS AND BUS STOPS. ALL SIGNS AND TRAFFIC CONTROL DEVICES AND/OR TEMPORARY CONSTRUCTION REQUIRED TO MAINTAIN FULL AND SAFE PEDESTRIAN ACCESSIBILITY THROUGH THE CONSTRUCTION AREA AT ALL TIMES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.
14. THE CONTRACTOR SHALL ERECT STATIC SIGNS, "CONSTRUCTION WILL START ON XXX, CONSIDER ALTERNATE ROUTES" SOON AFTER THE NOTICE TO PROCEED.
15. ALL TEMPORARY CONCRETE BARRIERS SHALL HAVE REFLECTORIZED DELINEATORS SPACED AT 6.50 METERS. AMBER SHALL BE USED TO THE LEFT OF TRAFFIC AND WHITE SHALL BE USED TO THE RIGHT OF TRAFFIC.
16. ALL SAFETY DRUMS USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE OF A LOW-DENSITY MATERIAL.
17. SEDIMENT CONTROL PROTECTION SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING INLETS IMPACTED BY THE CONSTRUCTION, AS WELL AS NEW INLETS, SHALL BE PROTECTED. SEE EROSION AND SEDIMENT CONTROL SHEETS FOR DETAILS.
18. REFER TO THE CONTRACT SPECIAL PROVISIONS FOR ALLOWABLE HOURS OF CONSTRUCTION AND LANE CLOSURES.
19. a) THE CONTRACTOR SHALL COORDINATE WITH WMATA REGARDING THE PROBABLE IMPACT OF THIS CONSTRUCTION UPON METRO BUS STOPS IN THE VICINITY. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE APPROPRIATE WMATA/MTA OFFICIALS AS LISTED IN THE WORK ZONE TRANSPORTATION MANAGEMENT PLAN (TMP).

b) WHEN A BUS STOP IS PUT OUT OF SERVICE DUE TO CONSTRUCTION, A TEMPORARY SIGN SHALL BE POSTED TO INDICATE THE LOCATION(S) OF THE NEAREST AVAILABLE BUS STOP(S) FOR THE ROUTE(S) SERVICED BY THE OUT-OF SERVICE BUS STOP.
20. DDOT AND MARYLAND SHA OFFICIALS AND OTHER PROJECT STAKEHOLDERS SHALL BE NOTIFIED PRIOR TO TRAFFIC SWITCHES AND OVERNIGHT LANE CLOSURES AS DESCRIBED IN THE PROJECT WORK ZONE TRANSPORTATION MANAGEMENT PLAN (TMP).
21. THE CONTRACTOR SHALL MAINTAIN THE TRAFFIC IN CONFORMANCE WITH THE D.C. TEMPORARY TRAFFIC CONTROL MANUAL, 2006, DC DDOT STD. DRAWINGS, 2005 & MUTCD 2003 EDITION AND SUBSEQUENT REVISIONS AND THE 2006 EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DURING MILLING AND RESURFACING AND UTILITY WORK OUTSIDE OF THE FULL DEPTH RECONSTRUCTION. NO UTILITY WORK/RESURFACING WORK WILL BE PERMITTED DURING RUSH HOURS.
22. BUSINESSES AND RESIDENCES ALONG EASTERN AVENUE OR THE KENILWORTH AVENUE SERVICE ROADS THAT ARE AFFECTED BY THE CONSTRUCTION SHALL BE ADVISED IN WRITING AT LEAST 2 WEEKS IN ADVANCE BY THE CONTRACTOR REGARDING THE NATURE OF THE IMPACTS.

MT 01

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKSJL
PROJECT MGR. JDS

DIVISION CHIEF

MAINTENANCE OF TRAFFIC
GENERAL NOTES

DATE
FILE



GREENHORNE & O'MARA
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REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	37	242

SEQUENCE OF CONSTRUCTION

Phase 1A - Construct improvements needed for Phases 1B and 2A Maintenance of Traffic:

1. Construct temporary ramp from southbound Kenilworth Ave. service road to mainline southbound Kenilworth Ave. north of the pedestrian bridge near Douglas St.
2. Widen ramp from northbound Kenilworth Ave. service road to northbound mainline Kenilworth Ave. north of Eastern Ave.
3. Widen ramp from southbound mainline Kenilworth Ave. to southbound Kenilworth Ave. service road north of Eastern Ave.
4. Modify signal and curb radius at intersection of southbound Kenilworth Ave. off-ramp and Nannie Helen Burroughs Ave. to accommodate revised traffic pattern and signal phasing for detour during Phases 1B through 6.

Phase 1B - Remove existing bridge superstructure:

1. Continue work on Phase 1A Items 1-3 while proceeding to Phase 1B.
2. After completion of Phase 1A Item 4, close Eastern Ave. bridge and detour traffic via Kenilworth Ave. service roads, Nannie Helen Burroughs Ave. interchange, and U.S. 50 interchange. Detour traffic from southbound Kenilworth Ave. off-ramp at Nannie Helen Burroughs Ave. to next ramp to the south via Kenilworth Ave. service road, Foote Place, and Kenilworth Terrace. Provide revised traffic flow pattern via U-turn lane and revised signal timing plan along Nannie Helen Burroughs Ave. to accommodate detour flows.
3. Detour pedestrian movements at Eastern Ave. bridge to pedestrian bridge over Kenilworth Ave. near Douglas St. and Polk Street.
4. Remove existing traffic signal at Eastern Ave./Kenilworth Ave. intersection and provide stop sign control for through movement along northbound Kenilworth Ave. service road. Right turn movement from westbound Eastern Ave. to have right-of-way.
5. Close right lane on westbound Eastern Ave. to allow for adequate right turning radius for trucks at intersection.
6. Shift Kenilworth Ave. service road traffic to the outside and place temporary concrete traffic barrier along the center of each service road.
7. Remove existing Eastern Ave. bridge superstructure.
8. Widen northbound Kenilworth Ave. service road on the left side.

Phase 2A - Construct new storm drain manholes and pipes:

1. Retain detours from Phase 1B.
2. After completion of all items in Phases 1A and 1B shift the outside lane of traffic in each direction on mainline Kenilworth Ave. onto the service road ramps and along the inside half of the service roads, left of the barrier placed in Phase 1B.
3. Close the right lane in each direction on mainline Kenilworth Ave. under the Eastern Ave. bridge and construct MH-1, MH-2, MH-3, MH-5, MH-6, MH-7, and connecting 18" RCP storm drain pipes. See drainage and erosion and sediment control plans for details.

Phase 2B - Construct Eastern Ave. bridge piers in median of Kenilworth Ave.:

1. Shift the left two lanes in each direction on mainline Kenilworth Ave. to the outside to create a 24' wide area in the Kenilworth Ave. median for construction.
2. Construct MH-4 and MH-8 near the Kenilworth Ave. median. Construct 18" RCP storm drain pipes between MH-4 and MH-5, between MH-3 and MH-8, and between MH-7 and MH-8 by closing additional lanes as necessary during allowable hours only as per contract special provisions. See drainage and erosion and sediment control plans for details.
3. Construct the new bridge piers. Use prefabricated bridge components to minimize the duration of construction and the consequent impact to traffic. As necessary, close additional lanes on mainline Kenilworth Ave. during allowable hours only as per contract special provisions for delivery and installation of prefabricated bridge components.

Phase 3 - Complete bridge construction:

1. After completion of bridge piers, remove diversion of through traffic onto service roads and restore mainline Kenilworth Ave. to original conditions. Retain Phase 1B detours and temporary concrete barrier along service roads.
2. Remove temporary ramp from southbound Kenilworth Avenue service road to mainline southbound Kenilworth Avenue.
3. Resurface mainline Kenilworth Avenue and install final proposed pavement markings.
4. Complete construction of bridge abutments and superstructure.
5. Construct inside half of southbound Kenilworth Ave. service road to final grade.
6. Wedge and level along northbound Kenilworth Ave. service road for Phase 4 traffic transition over new approach slab.

Subphase 3A

1. Retain all vehicular traffic patterns and vehicular traffic control devices from Phase 3.
2. Near the end of Phase 3 and concurrent with other Phase 3 work, close crosswalk across Eastern Avenue at northbound Kenilworth Avenue service road intersection. Detour pedestrian traffic to crosswalk at Olive Street as shown.
3. On northeast and southeast corners of Eastern Avenue/northbound Kenilworth Avenue service road intersection and along southbound Kenilworth Avenue service road where shown, reconstruct curb, gutter, pedestrian ramps, and adjacent half of the sidewalks to proposed, elevated grade. Maintain minimum width on existing sidewalks for pedestrian passage adjacent to sidewalk construction as per contract specifications.

Phase 4 - Reconstruct Kenilworth Ave. service roads and Eastern Avenue:

1. Retain detour from Phase 1B. Retain pedestrian detour from Subphase 3A.
2. Shift southbound Kenilworth Ave. service road to inside half of service road constructed during Phase 3.
3. Shift northbound Kenilworth Ave. service road traffic to temporary alignment raised to final grade with wedge and level during Phase 3.
4. Reconstruct southeast quadrant of Eastern Ave./Kenilworth Ave. northbound service road intersection to final grade while maintaining northbound through, northbound right turn, and westbound right turn movements.
5. Complete Phases 4 and 5 on consecutive days of the same weekend to minimize weaving conflicts between detour movements along northbound service road (which would cause unacceptable congestion during weekday peak hour periods). See special provisions for allowable hours.

Phase 5 - Reconstruct Kenilworth Ave. service roads and Eastern Avenue:

1. Retain detours from Phase 1B. Retain pedestrian detour from Subphase 3A.
2. Open both lanes of traffic along southbound Kenilworth Ave. service road.
3. Detour northbound right turn movement at Eastern Ave./Kenilworth Ave. northbound service road intersection via S Street and Olive Street.
4. Make Eastern Ave. temporarily one-way westbound for approximately 200 ft just east of Kenilworth Ave. northbound service road intersection.
5. Maintain one lane of traffic for right turns along westbound Eastern Ave. by shifting lane all the way to the left side of the roadway.
6. Reconstruct northeast quadrant of Eastern Ave./Kenilworth Ave. northbound service road intersection to final grade while maintaining northbound through and westbound right turn movements.
7. Complete Phases 4 and 5 on consecutive days of the same weekend to minimize weaving conflicts between detour movements along northbound service road (which would cause unacceptable congestion during weekday peak hour periods). See special provisions for allowable hours.

Phase 6 - Complete intersection construction on top of new bridge:

1. Retain detours from Phase 1B. Remove Phase 5 detour via S Street and Olive Street. Remove Subphase 3A pedestrian detour via Olive Street.
2. Construct final landscaping and intersection traffic islands left of northbound Kenilworth Ave. service road.
3. Construct remainder of proposed sidewalk on the northeast and southeast corners of the Eastern Avenue/northbound Kenilworth Avenue service road intersection. Maintain minimum width on newly constructed sidewalks and around new pedestrian ramps for pedestrian passage adjacent to sidewalk construction as per contract specifications.
4. Construct proposed traffic signal at Eastern Avenue/Kenilworth Avenue service road intersection. See signal plans for details.
5. Construct cantilever sign structure C-1 in gore between northbound Kenilworth Avenue and Eastern Avenue/northbound Kenilworth Avenue service road off-ramp.

Phase 7

1. Activate proposed traffic signal and open new intersection on Eastern Avenue Bridge over Kenilworth Avenue to traffic.
2. Remove all detours.
3. Restore pre-construction conditions along Kenilworth Ave. service roads and along Nannie Helen Burroughs Avenue as shown.

Note: For Phases 3 through 6, reconstruction of all pavement along the Kenilworth Avenue service roads and Eastern Avenue and at the portion of their intersection not located above the new bridge deck shall consist of the following:

1. Mill off all the existing pavement
2. Clean out any broken concrete and fill with 19mm asphalt.
3. Overlay with pavement joint tape.
4. Pave with asphalt to final grade (maximum depth of 1 foot)

Refer to the contract specifications for details.

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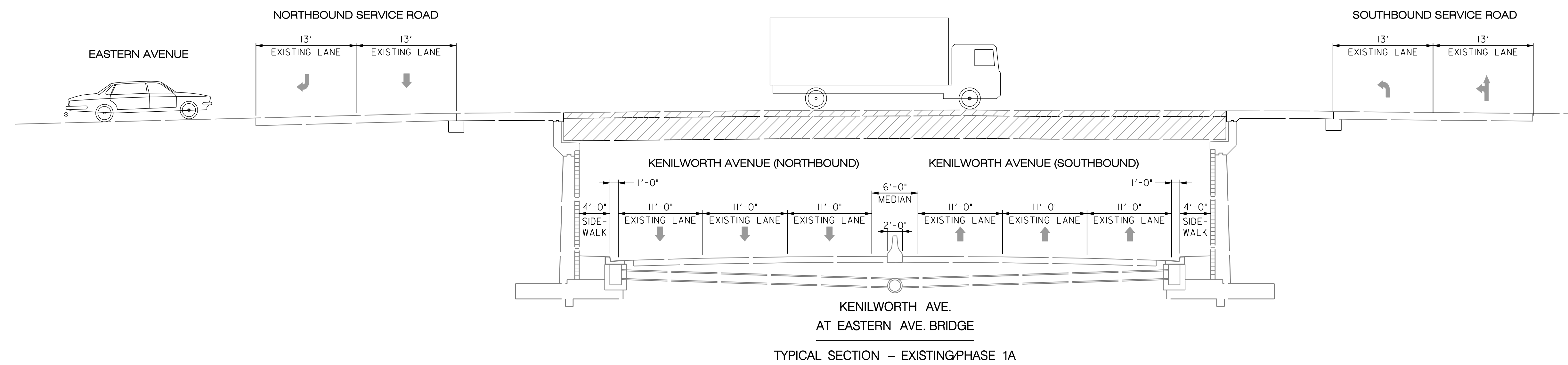
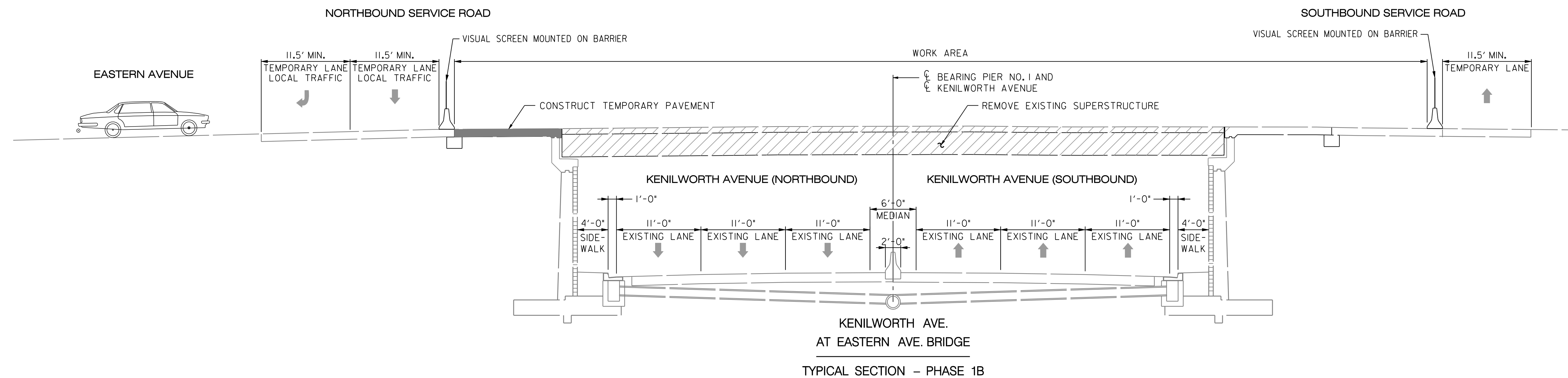
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. _____ JDS DESIGNED BY _____ JDS CHECKED BY _____ JMC DRAWN BY _____ STKSJL PROJECT MGR. _____ JDS
MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION	DIVISION CHIEF _____ DATE _____ FILE _____



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MT 03

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

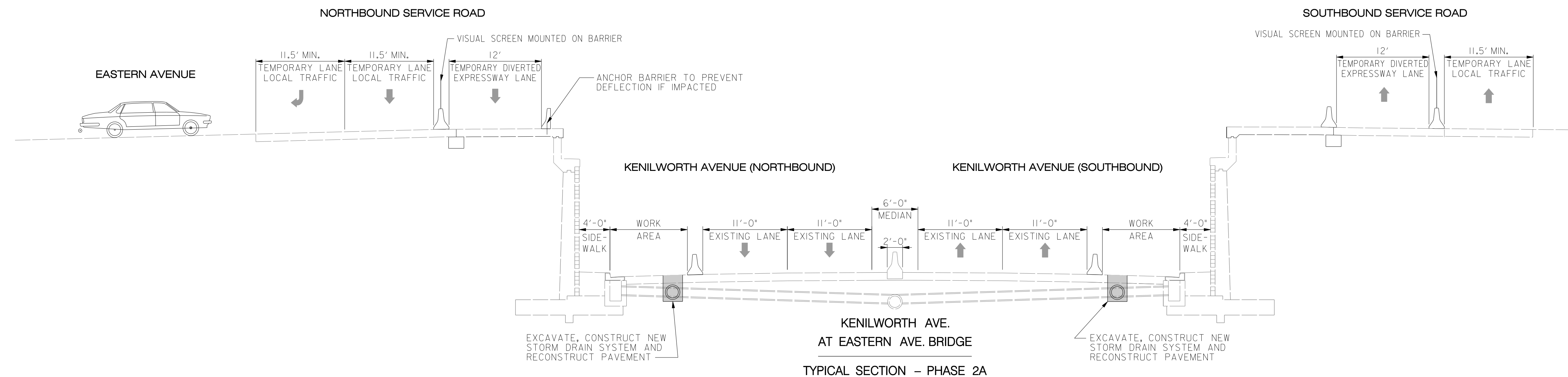
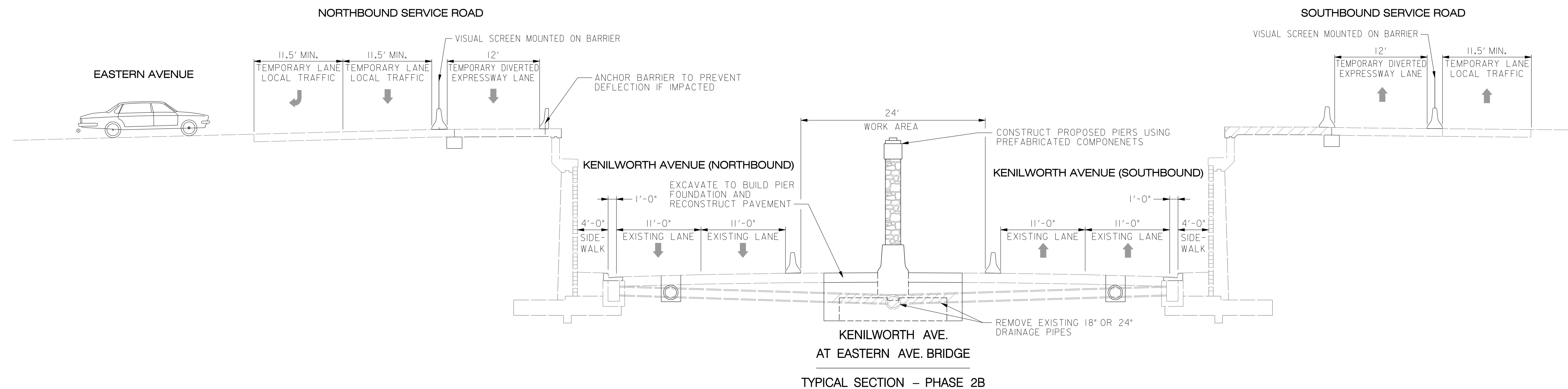
PROJECT ENG. JDS
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MT 04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

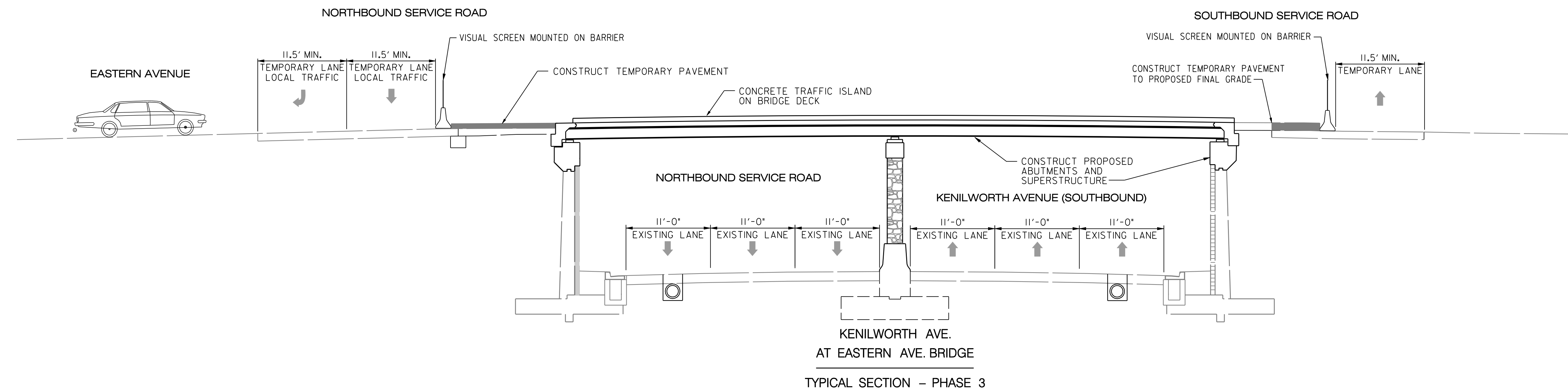
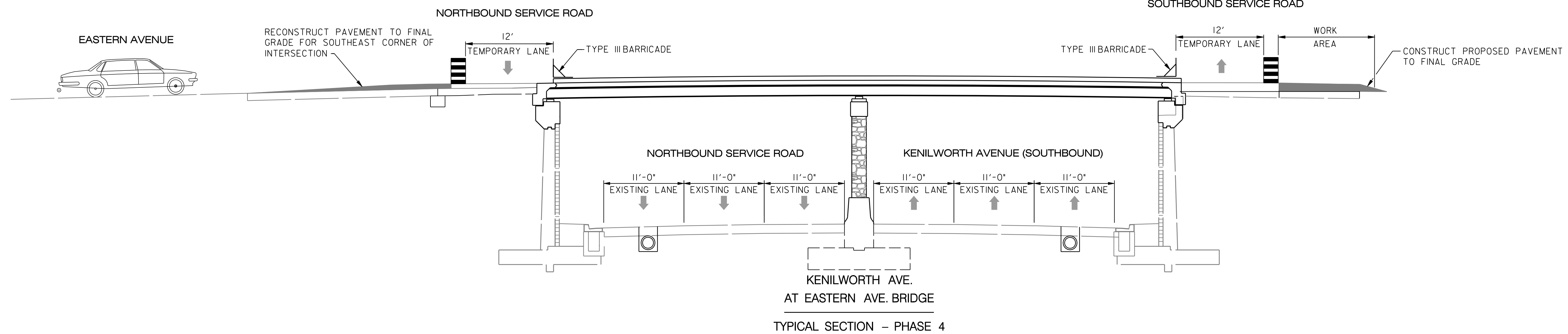
PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STKSJL</u> PROJECT MGR. <u>JDS</u>	DIVISION CHIEF DATE _____ FILE _____
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CONSULTING ENGINEERS
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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MT 05

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKSJL
PROJECT MGR. JDS

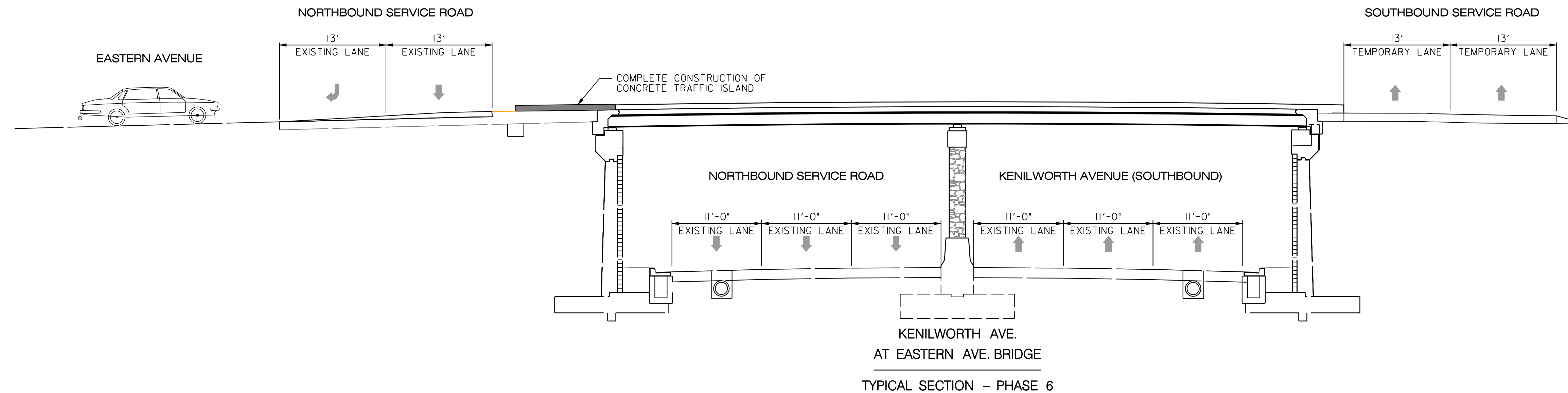
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DATE
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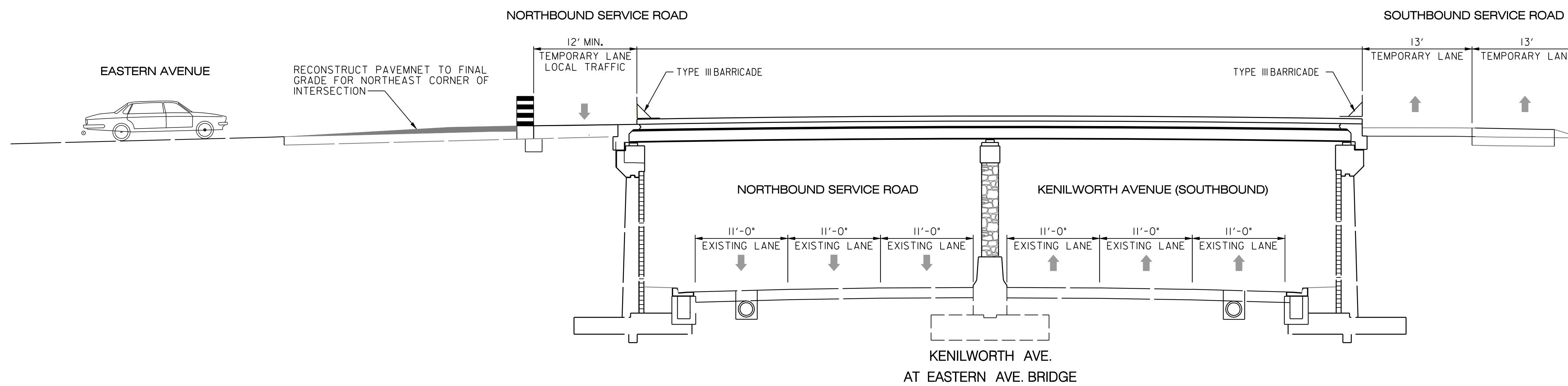
GREENHORNE & O'MARA
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REVISIONS			

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TYPICAL SECTION - PHASE 6



TYPICAL SECTION - PHASE 5

MT 06

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKSJL
PROJECT MGR. JDS

DIVISION CHIEF
DATE
FILE



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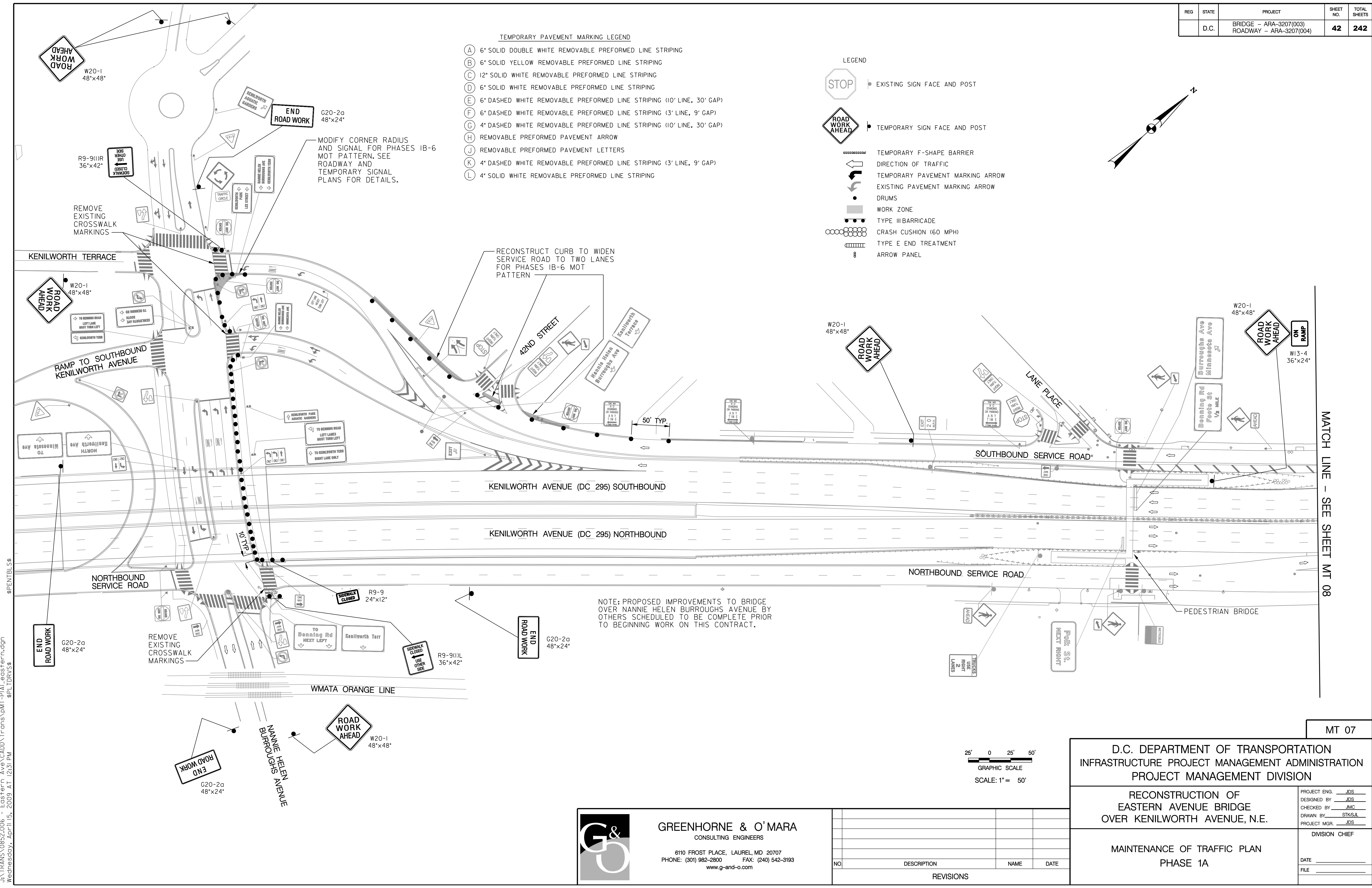
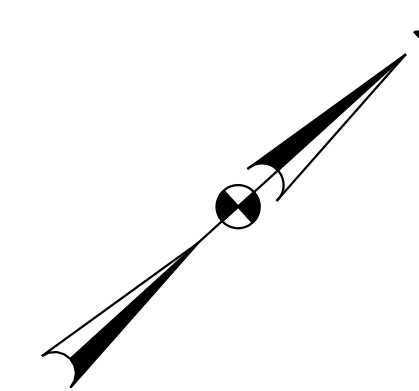
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TEMPORARY PAVEMENT MARKING LEGEND

- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (H) REMOVABLE PREFORMED PAVEMENT ARROW
- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (13' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

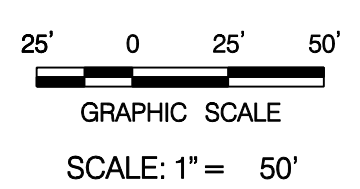
LEGEND

- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL



MATCH LINE - SEE SHEET MT 08

MT 07



<p>D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION</p>	
<p>RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.</p>	
<p>MAINTENANCE OF TRAFFIC PLAN PHASE 1A</p>	
<p>PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STK/SJL</u> PROJECT MGR. <u>JDS</u></p>	<p>DIVISION CHIEF DATE _____ FILE _____</p>

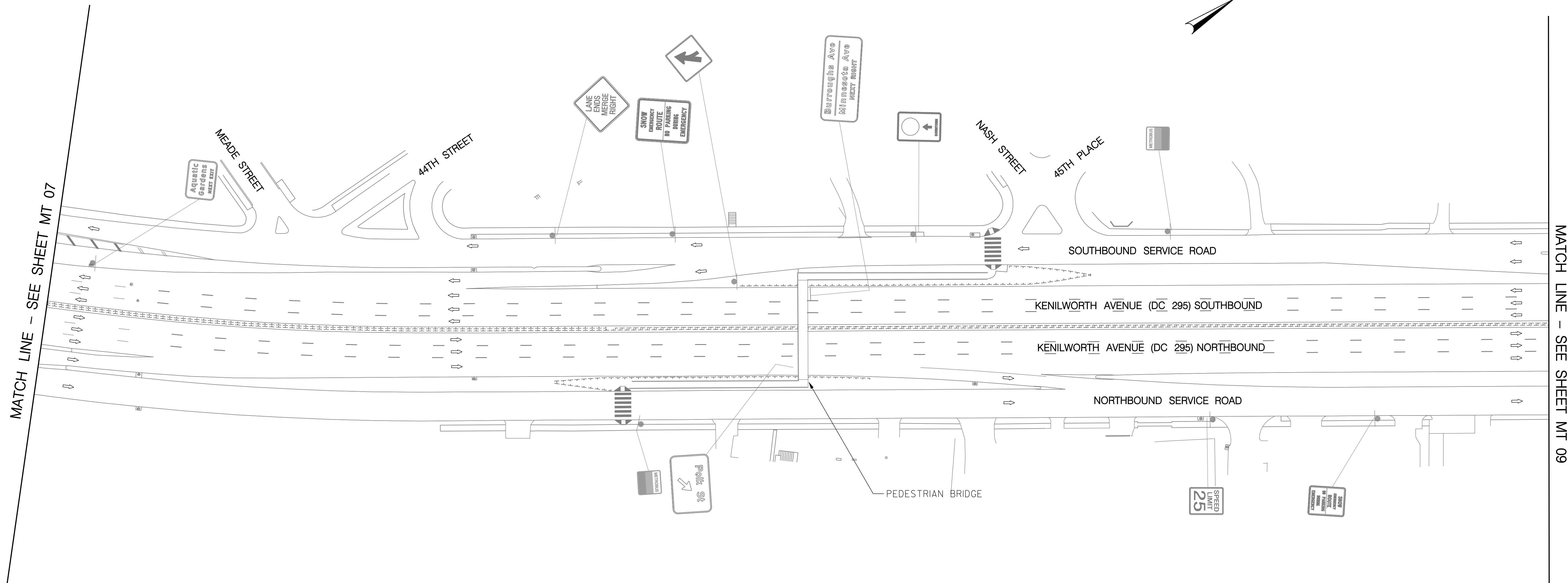
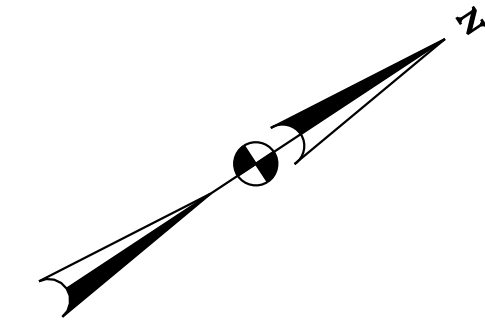
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	43	242



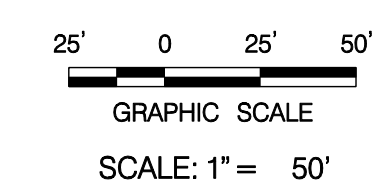
MATCH LINE - SEE SHEET MT 07

MATCH LINE - SEE SHEET MT 09

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SPLTDRYS\$
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- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MT 08

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

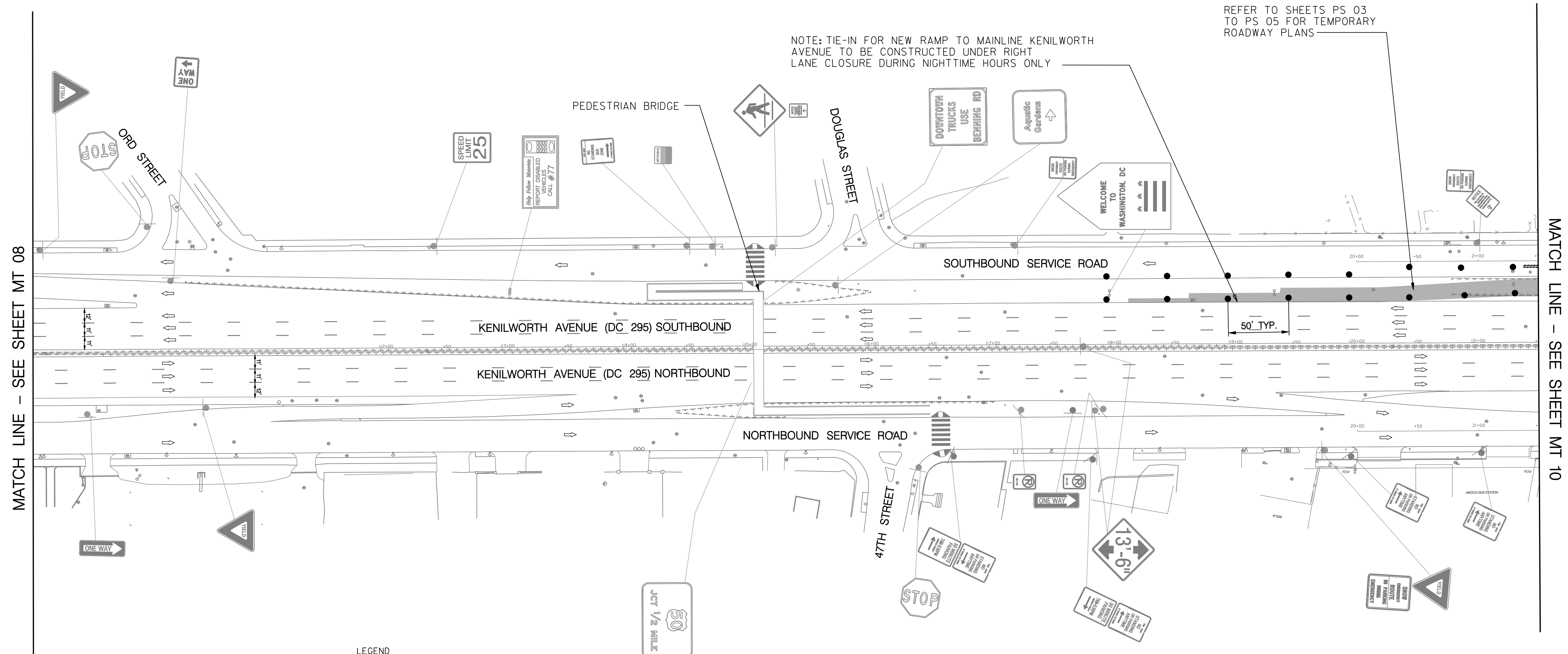
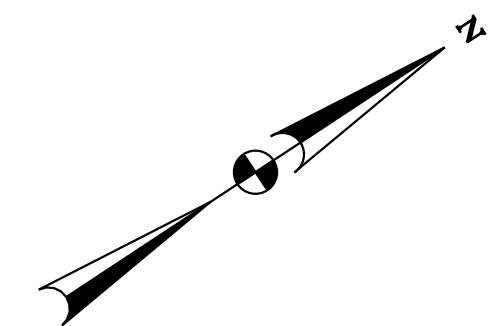
**MAINTENANCE OF TRAFFIC PLAN
PHASE 1A**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

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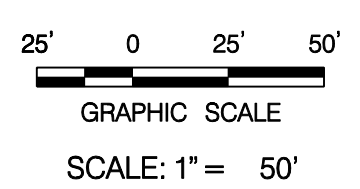
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



TEMPORARY PAVEMENT MARKING LEGEND

- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MT 09

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1A

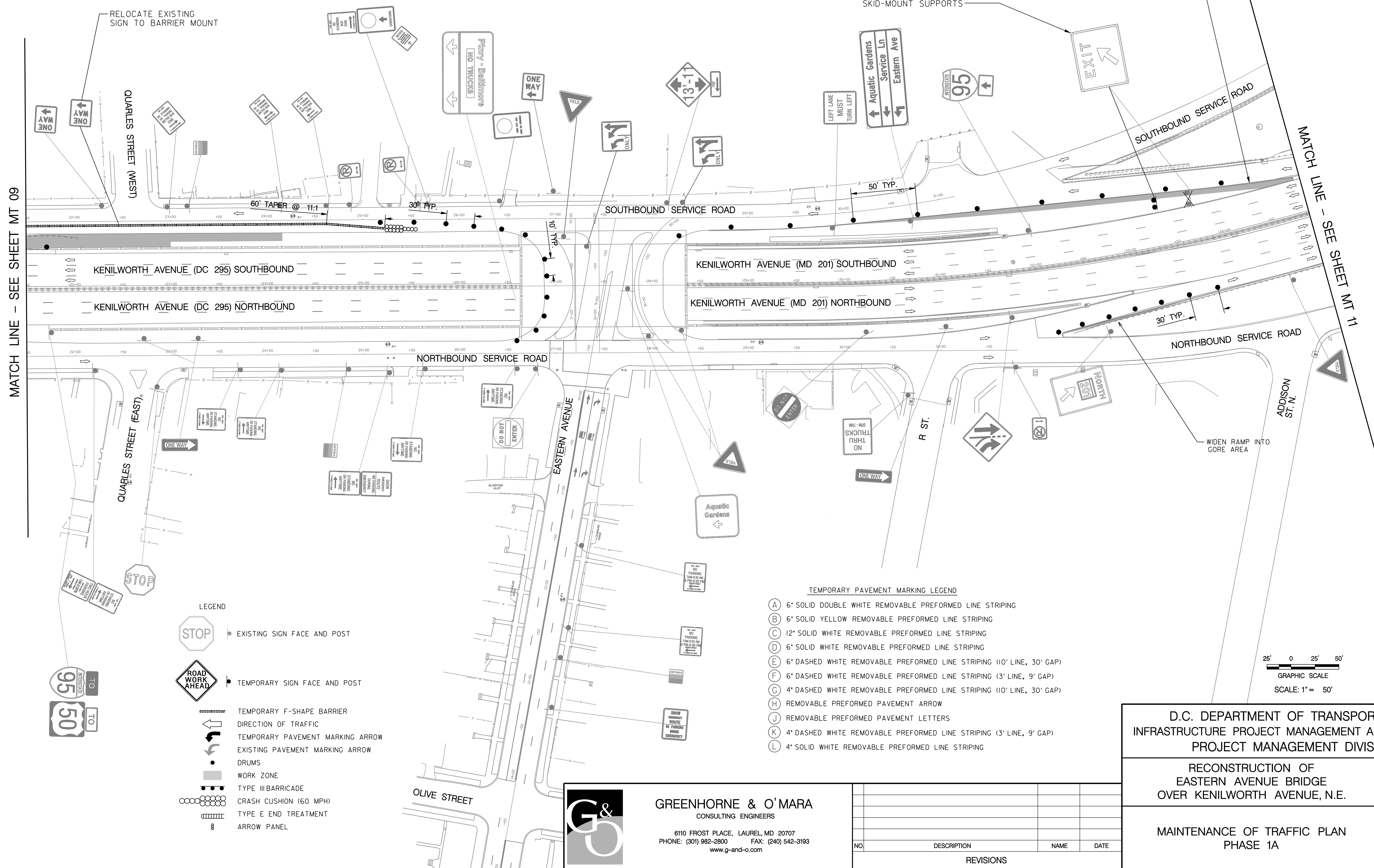
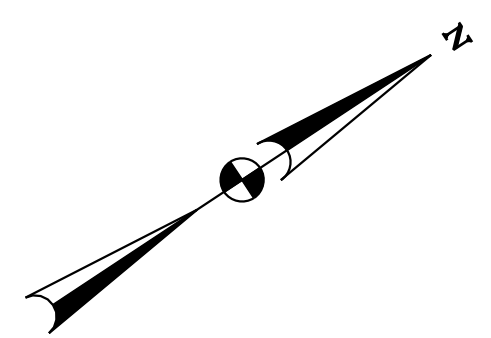
PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SJL
PROJECT MGR. JDS
DIVISION CHIEF
DATE
FILE



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REVISIONS			

NOTE: RAMP WIDENING TIE-IN WITH MAINLINE KENILWORTH AVENUE TO BE CONSTRUCTED UNDER RIGHT LANE CLOSURE DURING NIGHTTIME HOURS ONLY

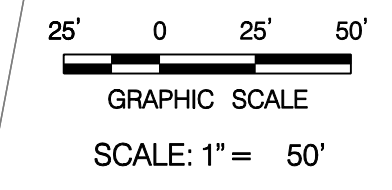


MATCH LINE - SEE SHEET MT 09

MATCH LINE - SEE SHEET MT 11

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 10

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 1A**

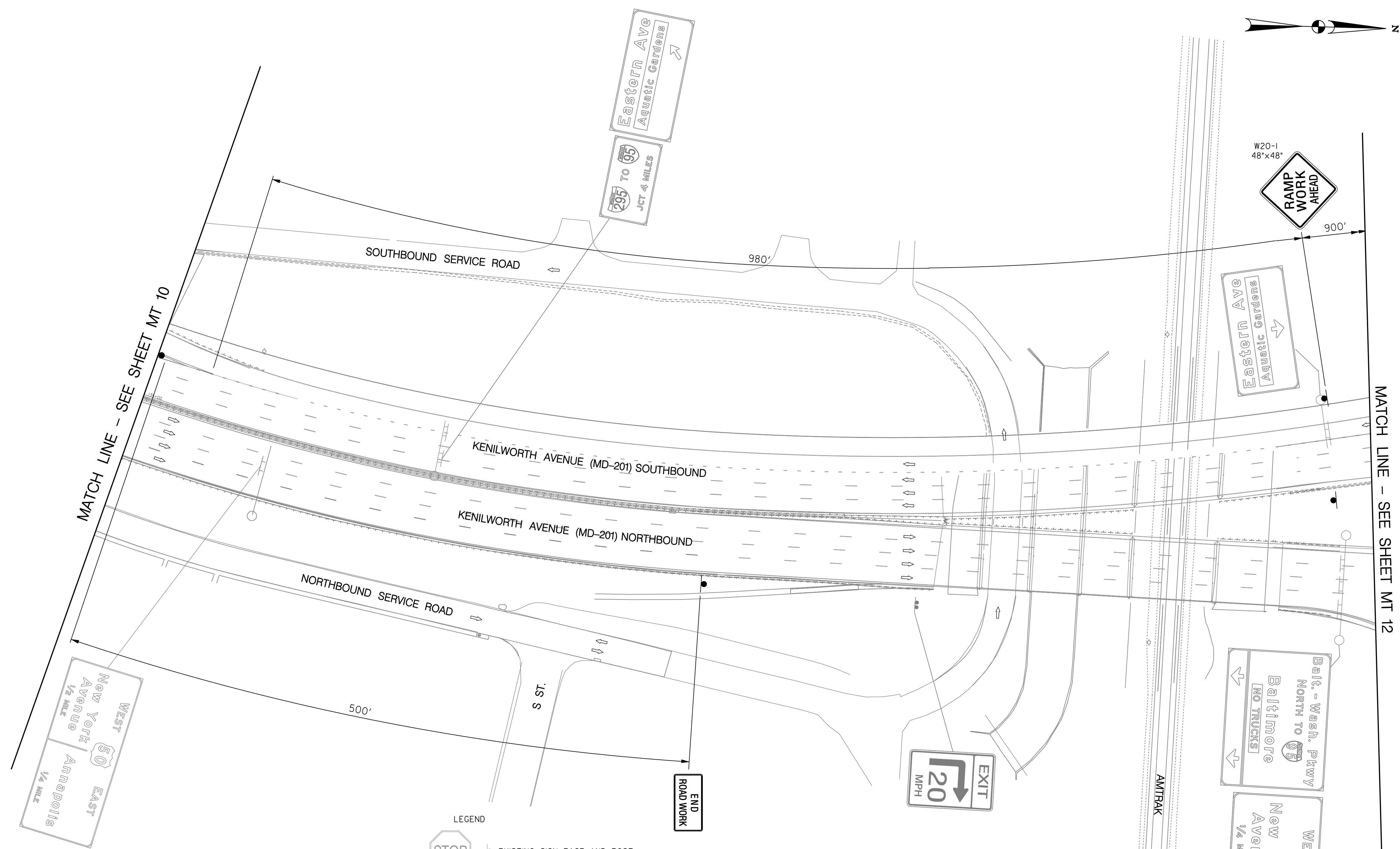
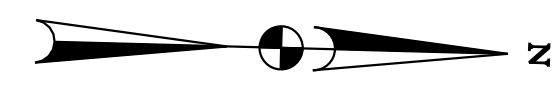
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

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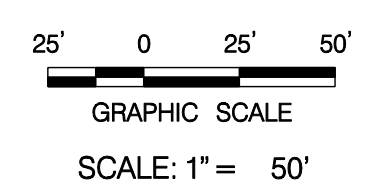
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REVISIONS			

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- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6' SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6' SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12' SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6' SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6' DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6' DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4' DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (I) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4' DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4' SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND**
- EXISTING SIGN FACE AND POST G20-2a 48"x24"
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

MT 11

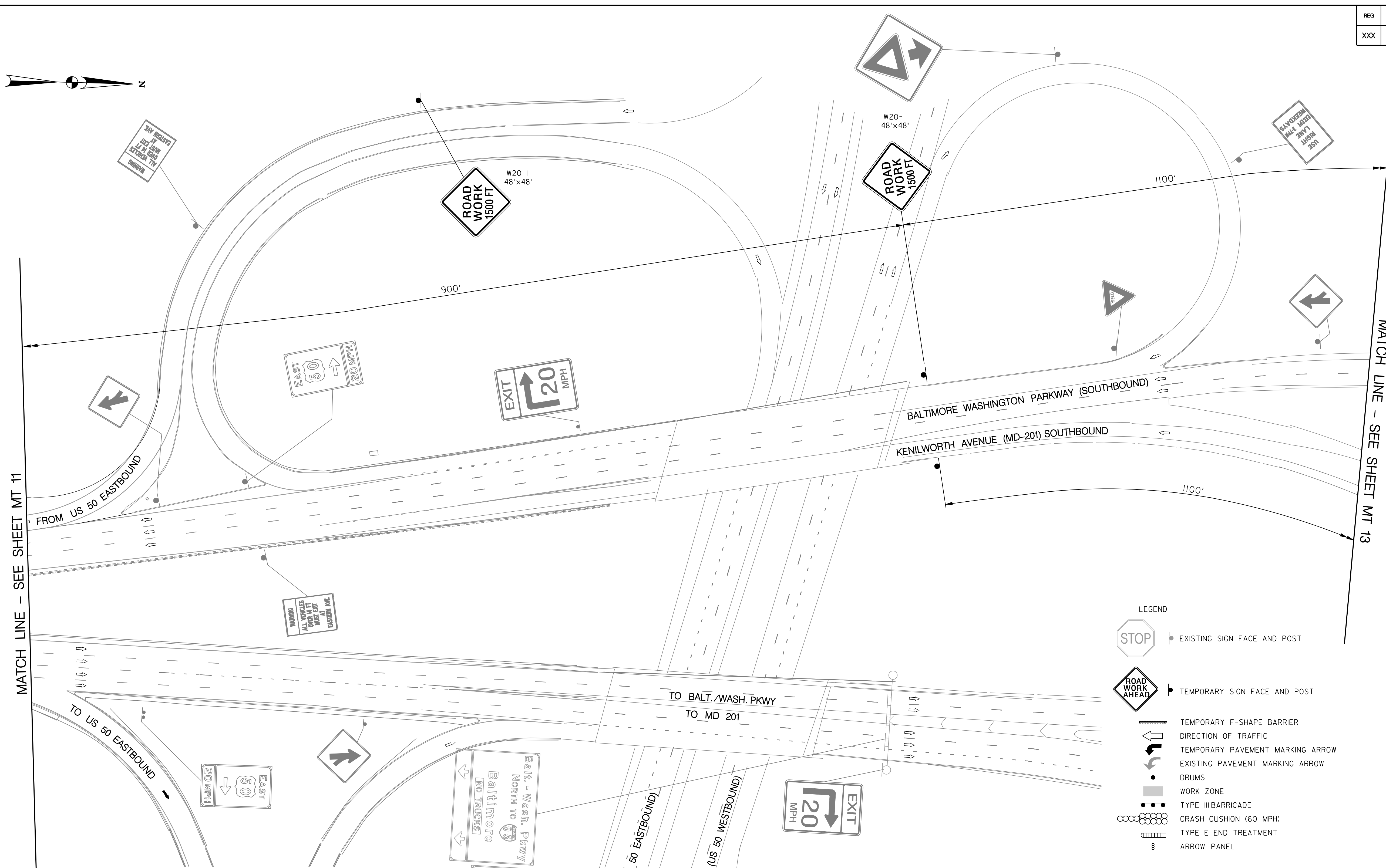
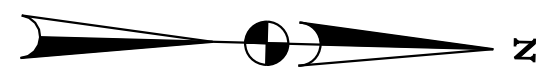
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1A

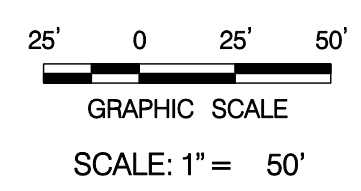
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	47	242



- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



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MT 12

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

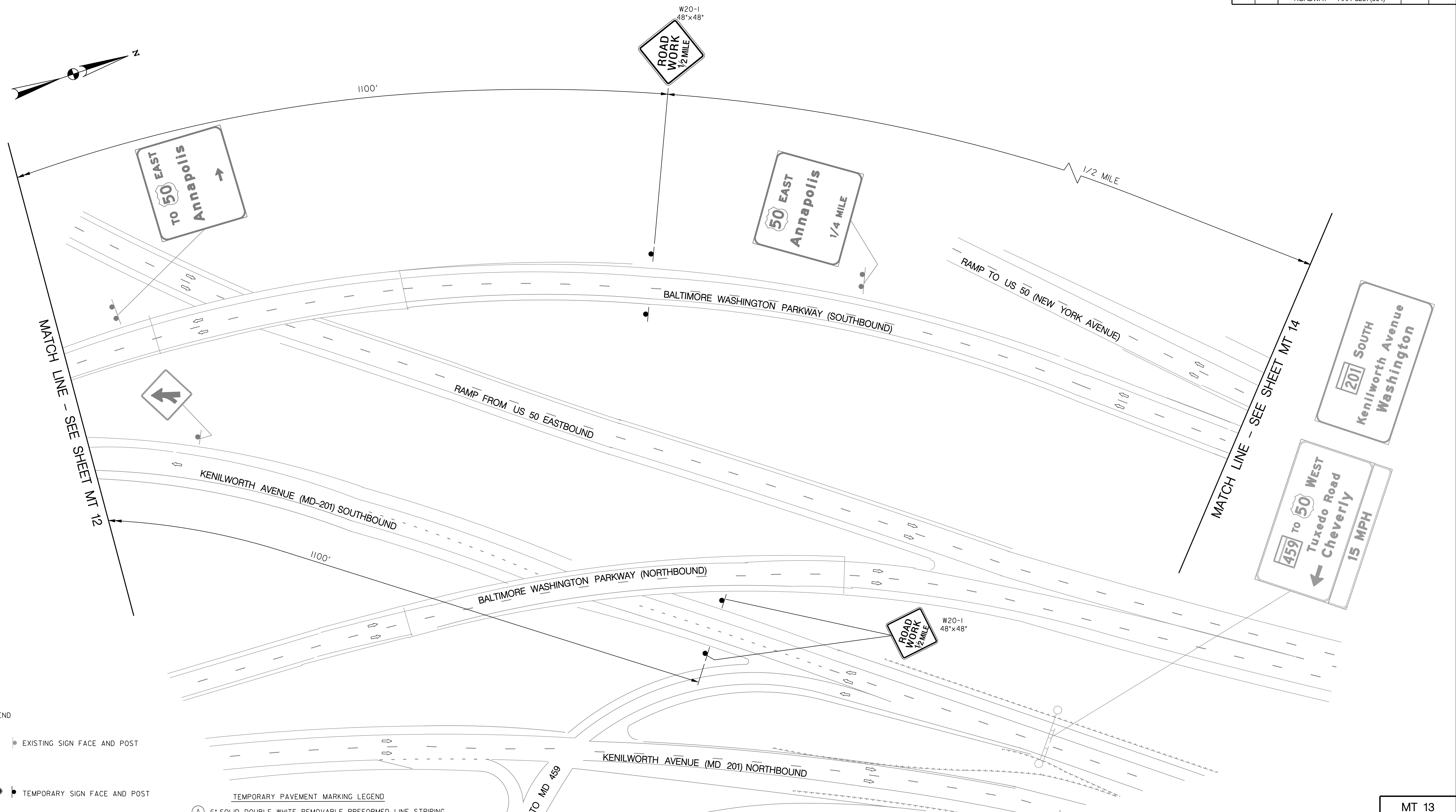
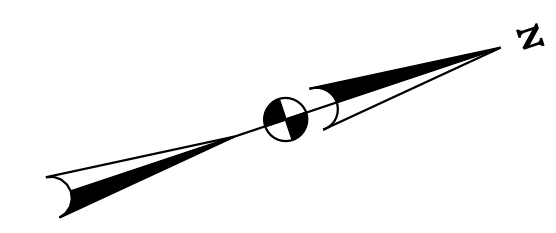
MAINTENANCE OF TRAFFIC PLAN
 PHASE 1A

PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
DESIGNED BY <u>JDS</u>	DATE _____
CHECKED BY <u>JMC</u>	FILE _____
DRAWN BY <u>STK/SJL</u>	
PROJECT MGR. <u>JDS</u>	

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REVISIONS			

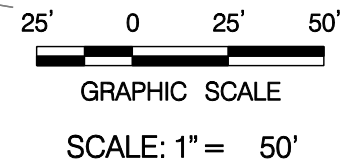
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	48	242



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- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
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 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

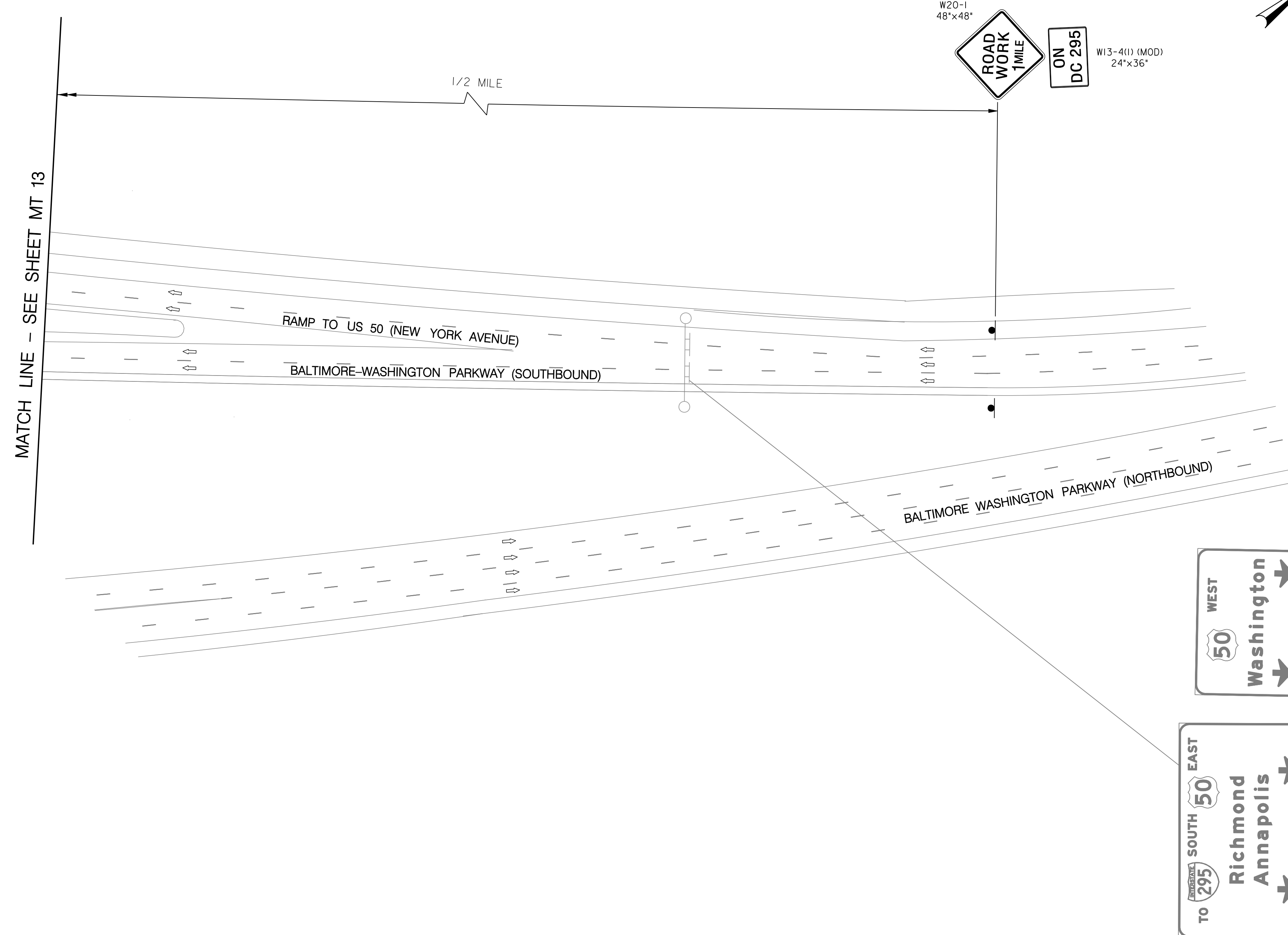
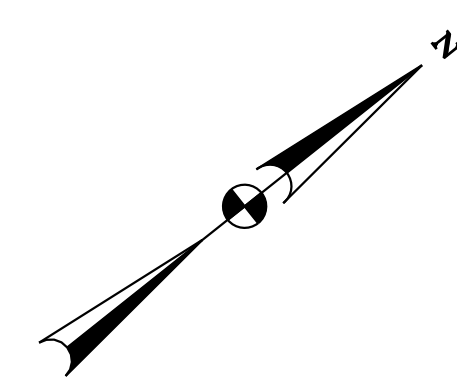


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

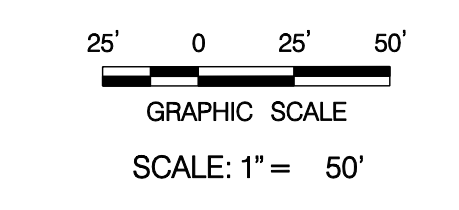
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STK/SIL</u> PROJECT MGR. <u>JDS</u>
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.		DIVISION CHIEF DATE _____ FILE _____
MAINTENANCE OF TRAFFIC PLAN PHASE 1A		MT 13

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	49	242



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 13

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MT 14

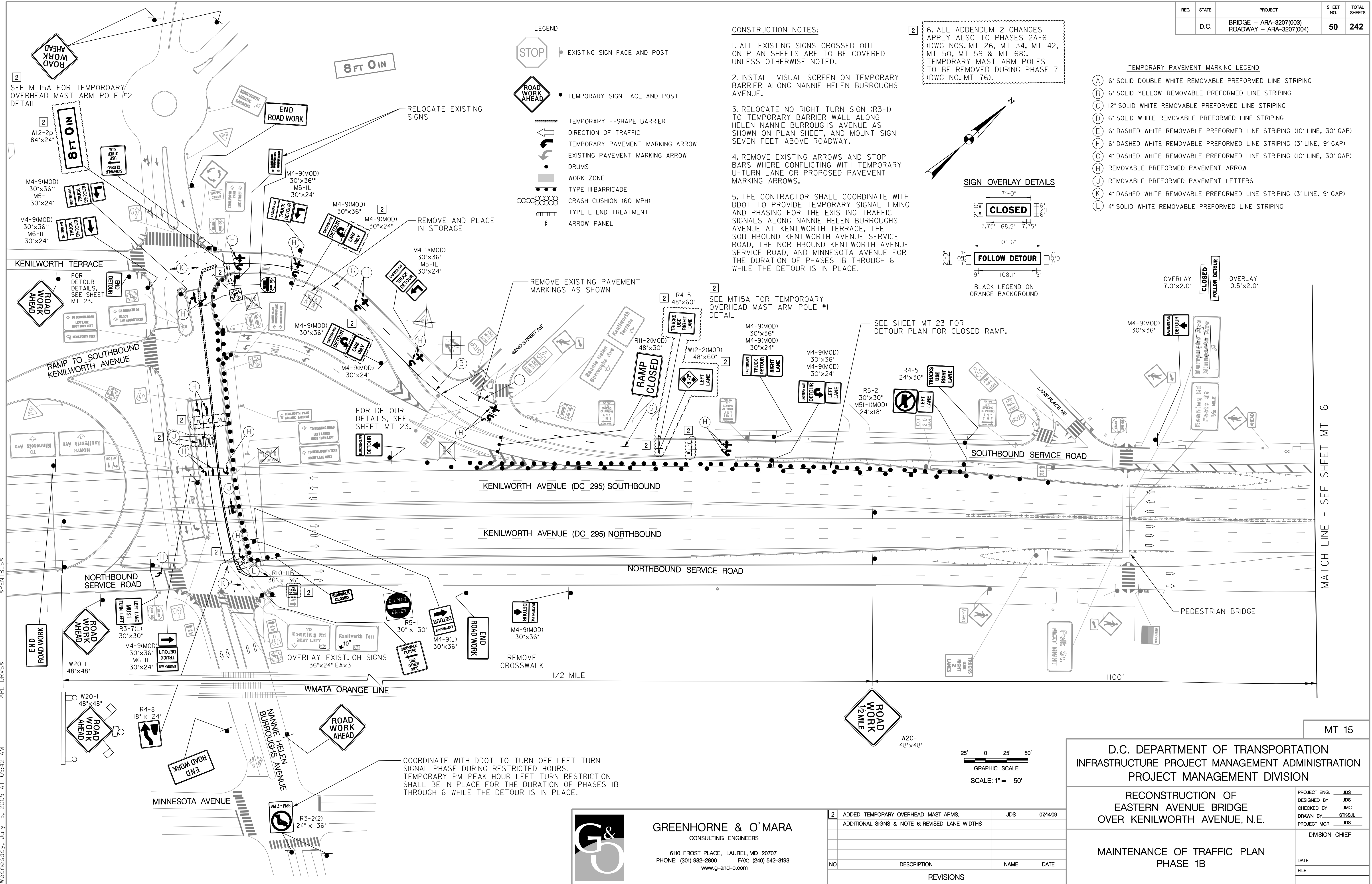
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1A

PROJECT ENG. <u> </u> JDS	DESIGNED BY <u> </u> JDS
CHECKED BY <u> </u> JMC	DRAWN BY <u> </u> STK/SIL
PROJECT MGR. <u> </u> JDS	
DIVISION CHIEF	
DATE <u> </u>	
FILE <u> </u>	

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			



LEGEND

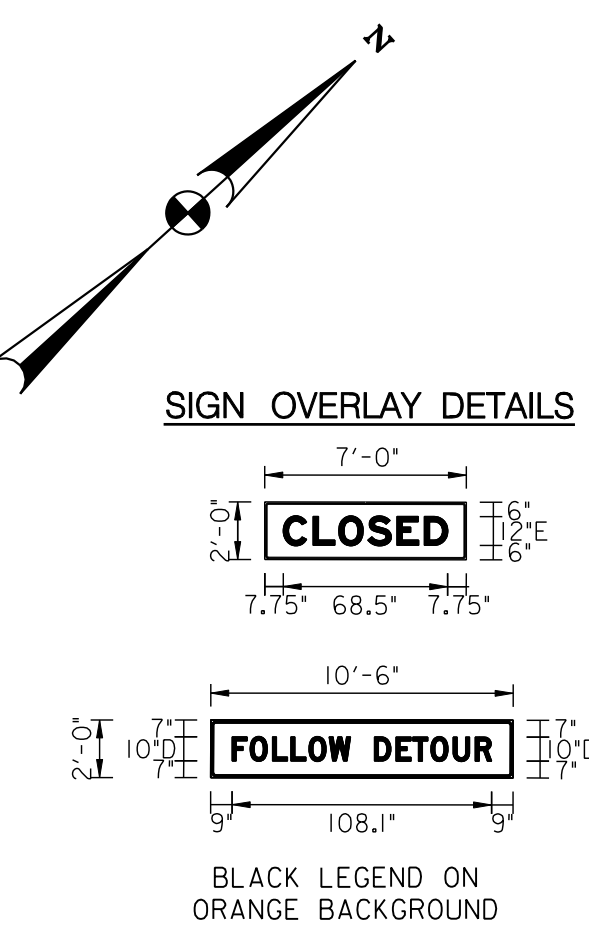
- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL

CONSTRUCTION NOTES:

- ALL EXISTING SIGNS CROSSED OUT ON PLAN SHEETS ARE TO BE COVERED UNLESS OTHERWISE NOTED.
- INSTALL VISUAL SCREEN ON TEMPORARY BARRIER WALL ALONG NANNIE HELEN BURROUGHS AVENUE.
- RELOCATE NO RIGHT TURN SIGN (R3-1) TO TEMPORARY BARRIER WALL ALONG HELEN NANNIE BURROUGHS AVENUE AS SHOWN ON PLAN SHEET, AND MOUNT SIGN SEVEN FEET ABOVE ROADWAY.
- REMOVE EXISTING ARROWS AND STOP BARS WHERE CONFLICTING WITH TEMPORARY U-TURN LANE OR PROPOSED PAVEMENT MARKING ARROWS.
- THE CONTRACTOR SHALL COORDINATE WITH DDOT TO PROVIDE TEMPORARY SIGNAL TIMING AND PHASING FOR THE EXISTING TRAFFIC SIGNALS ALONG NANNIE HELEN BURROUGHS AVENUE AT KENILWORTH TERRACE, THE SOUTHBOUND KENILWORTH AVENUE SERVICE ROAD, THE NORTHBOUND KENILWORTH AVENUE SERVICE ROAD, AND MINNESOTA AVENUE FOR THE DURATION OF PHASES 1B THROUGH 6 WHILE THE DETOUR IS IN PLACE.

2. ALL ADDENDUM 2 CHANGES APPLY ALSO TO PHASES 2A-6 (DWG NOS. MT 26, MT 34, MT 42, MT 50, MT 59 & MT 68). TEMPORARY MAST ARM POLES TO BE REMOVED DURING PHASE 7 (DWG NO. MT 76).

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

NO.	DESCRIPTION	NAME	DATE
2	ADDED TEMPORARY OVERHEAD MAST ARMS, ADDITIONAL SIGNS & NOTE 6; REVISED LANE WIDTHS	JDS	07/14/09
REVISIONS			

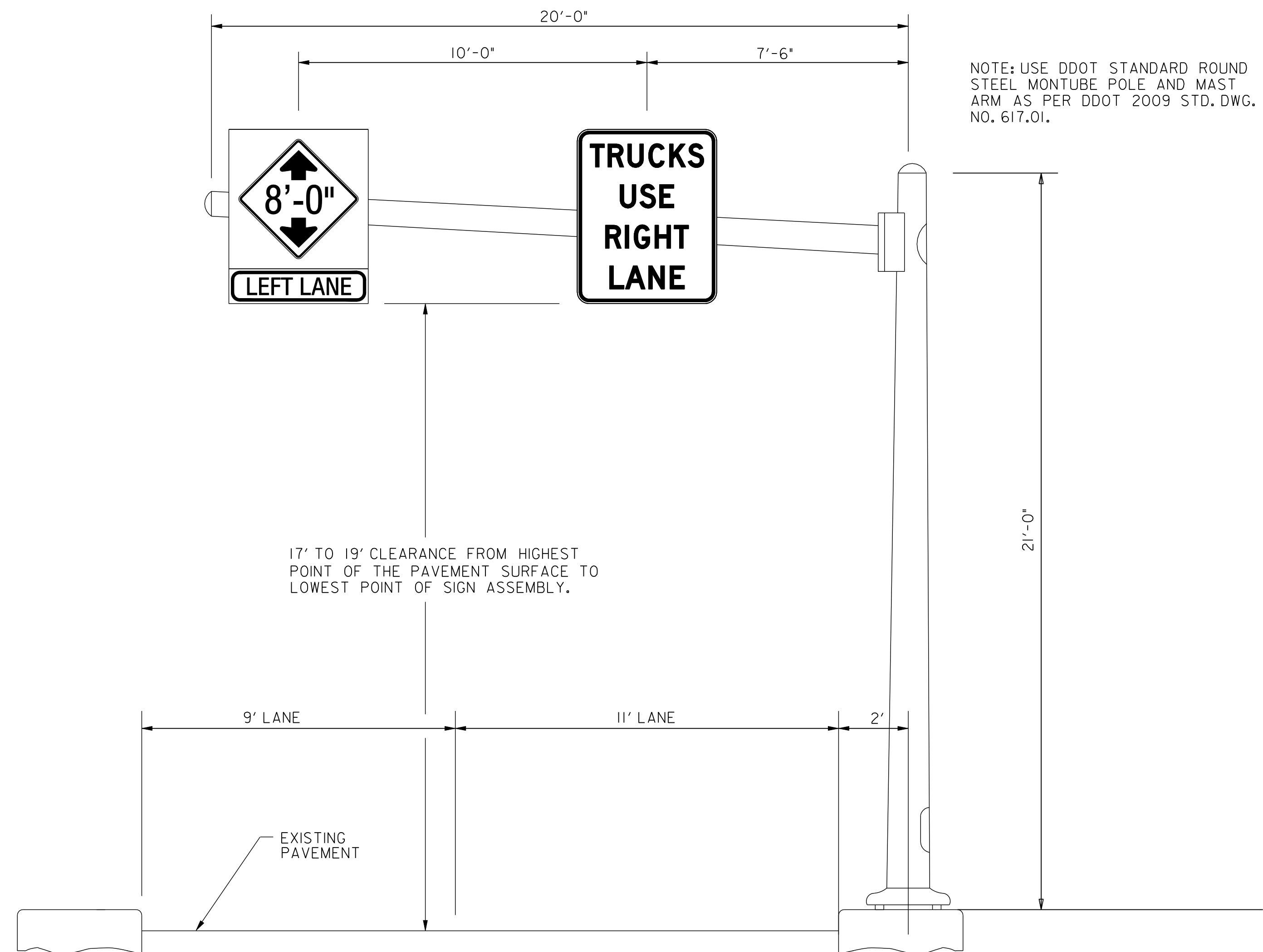
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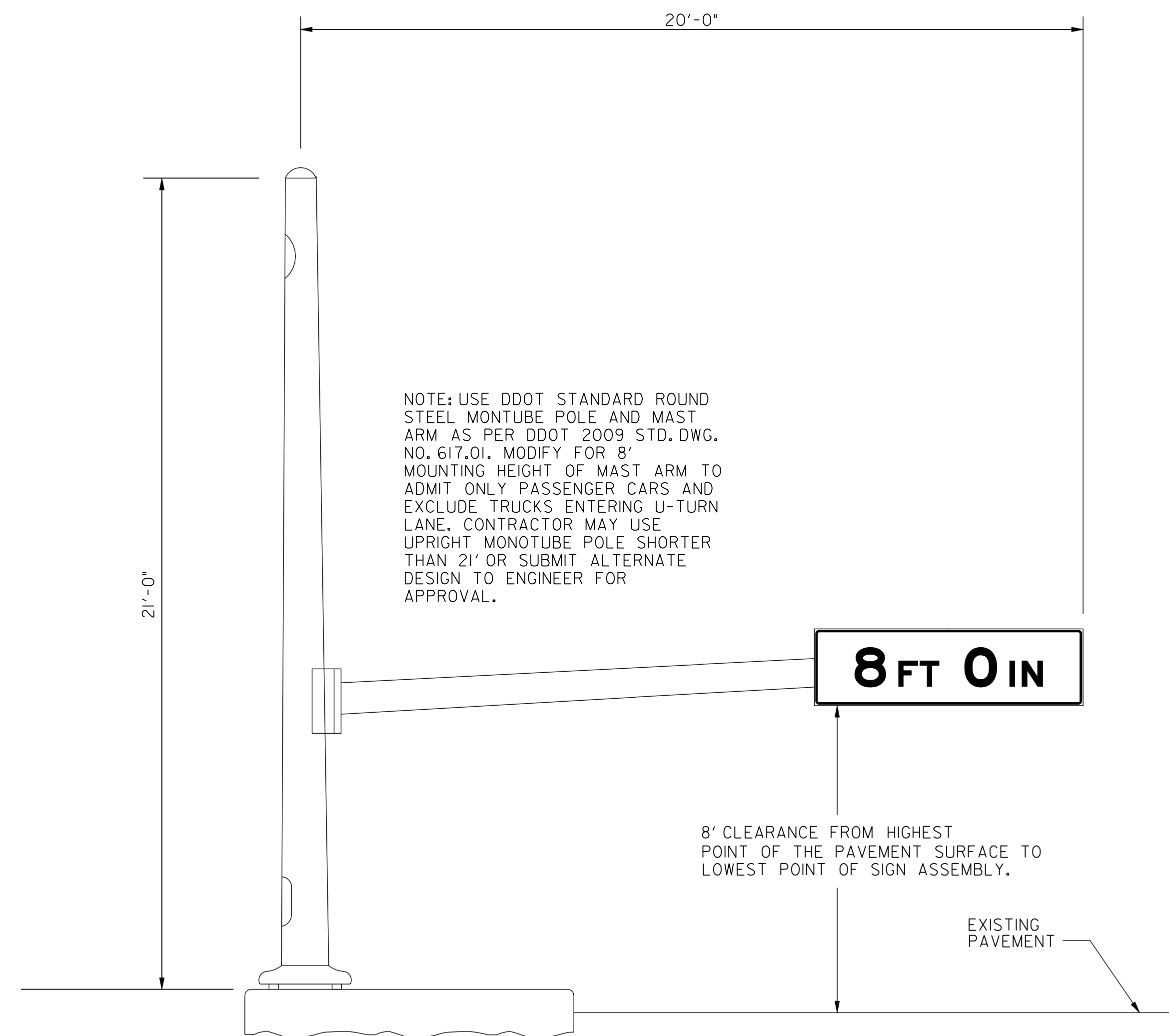
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MATCH LINE - SEE SHEET MT 16

TEMPORARY OVERHEAD MAST ARM POLE #1 DETAIL



TEMPORARY OVERHEAD MAST ARM POLE #2 DETAIL



QUANTITIES

DESCRIPTION	UNIT	QUANTITY
TEMPORARY OVERHEAD MAST ARM POLES	EA	2
CONSTRUCTION WARNING AND DETOUR SIGNS	SF	59
REMOVABLE PREFORMED PAVEMENT LETTER	EA	2
REMOVABLE PREFORMED PAVEMENT ARROW	EA	2

ALL QUANTITIES IN THIS TABLE ARE INCIDENTAL TO ITEM #616 001 "MAINTENANCE OF HIGHWAY TRAFFIC".



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NO.	DESCRIPTION	NAME	DATE
2	ADDED SHEET	JDS	07/10/09
REVISIONS			

MT 15A

D.C. DEPARTMENT OF TRANSPORTATION
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PROJECT MANAGEMENT DIVISION

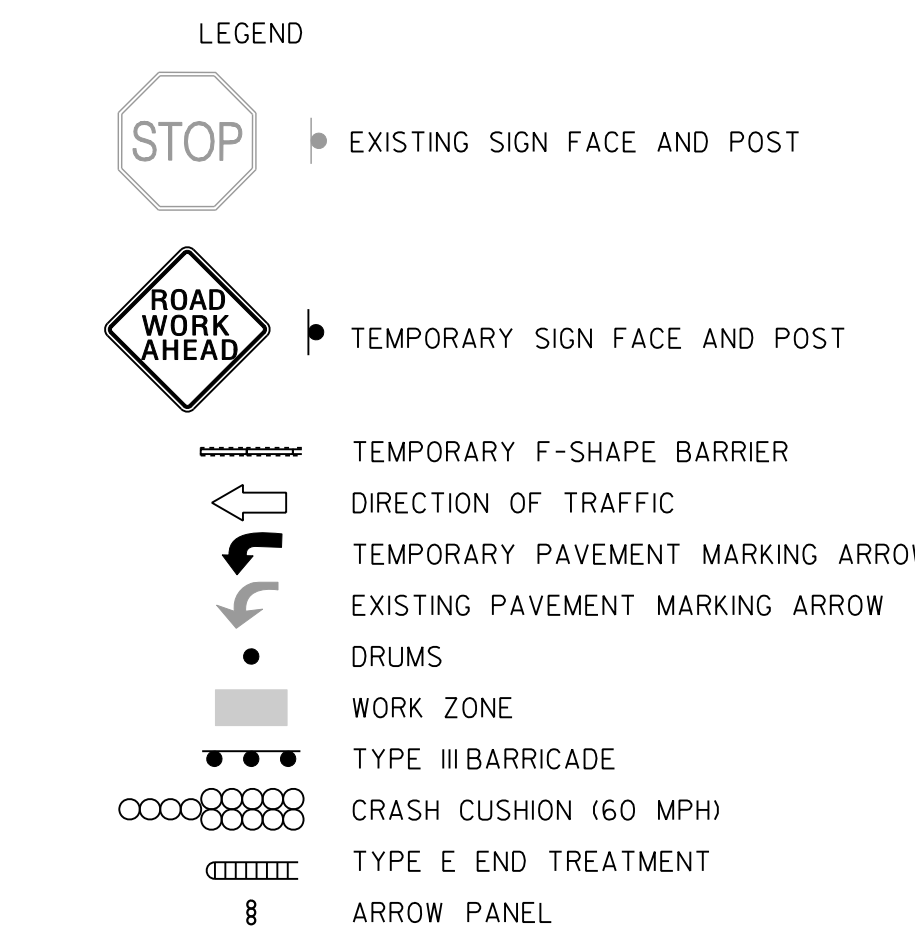
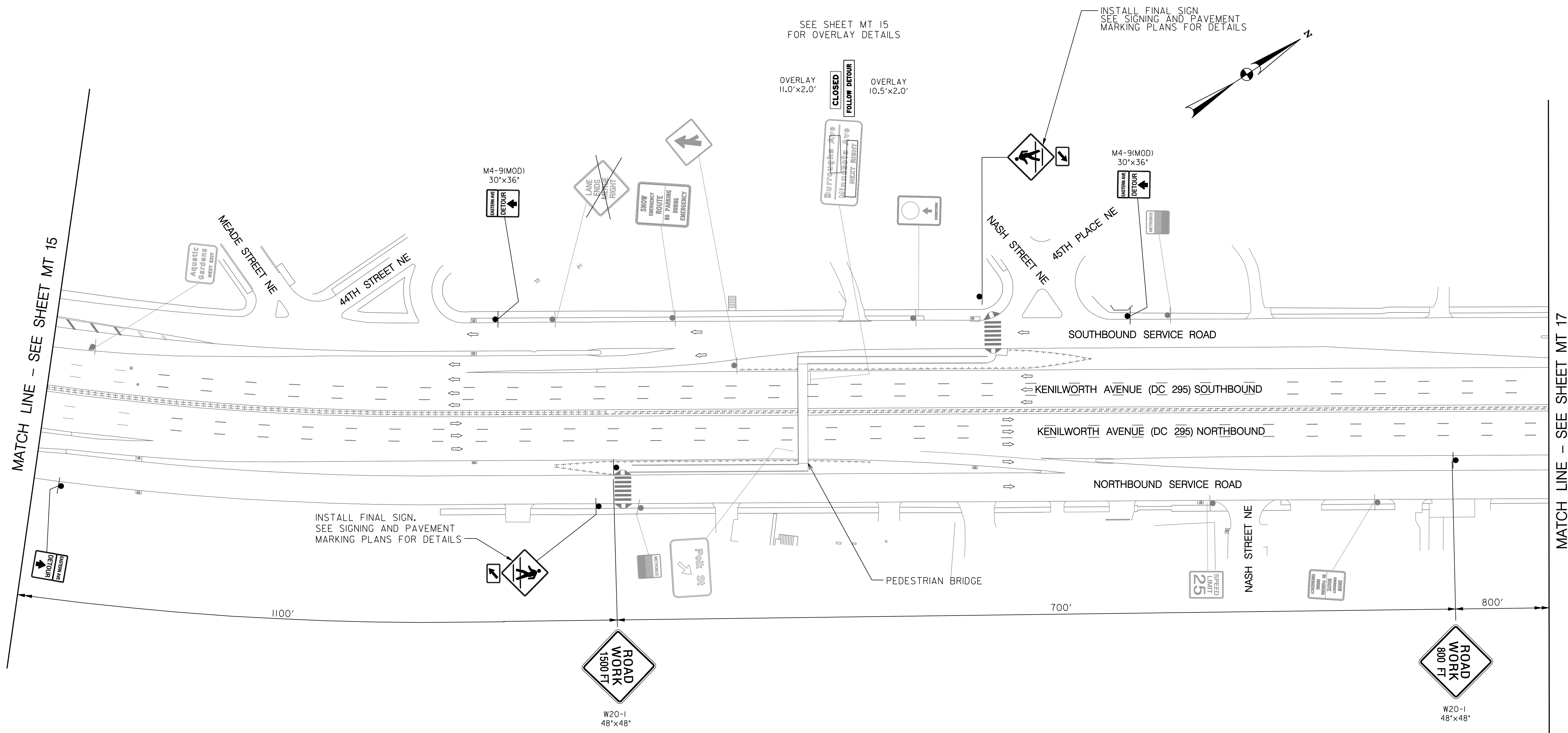
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC
SPECIAL SIGNING DETAILS

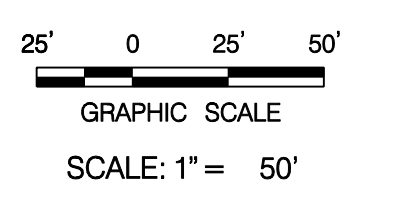
PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY JDS/M
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____



- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
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 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 16

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____



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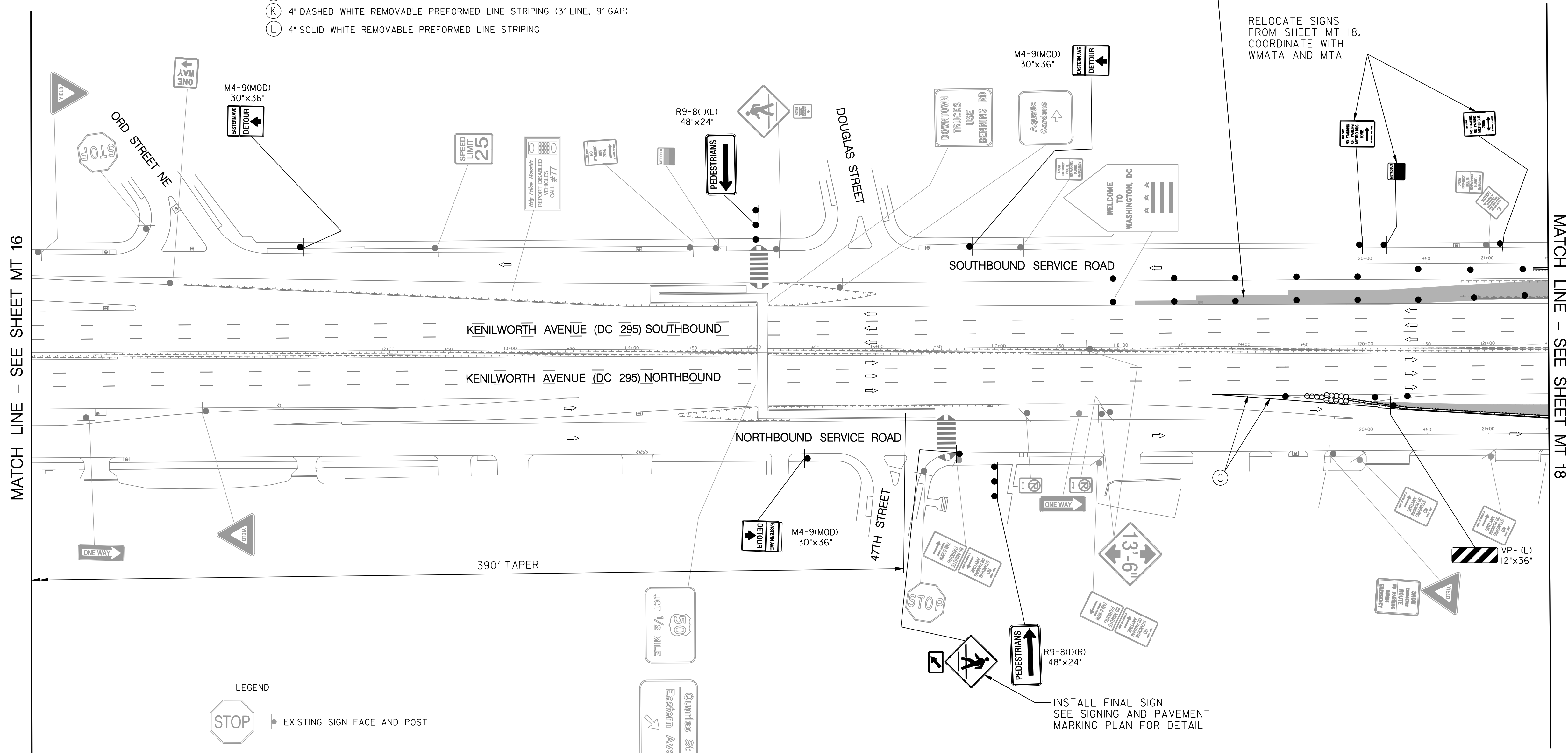
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REVISIONS			

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- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

NOTE:
TIE-IN FOR NEW RAMP TO MAINLINE KENILWORTH AVENUE TO BE CONSTRUCTED UNDER RIGHT LANE CLOSURE DURING NIGHTTIME HOURS ONLY

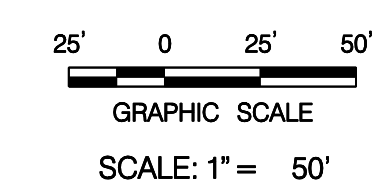
RELOCATE SIGNS FROM SHEET MT 18. COORDINATE WITH WMATA AND MTA



MATCH LINE - SEE SHEET MT 16

MATCH LINE - SEE SHEET MT 18

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MT 17

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKSJL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

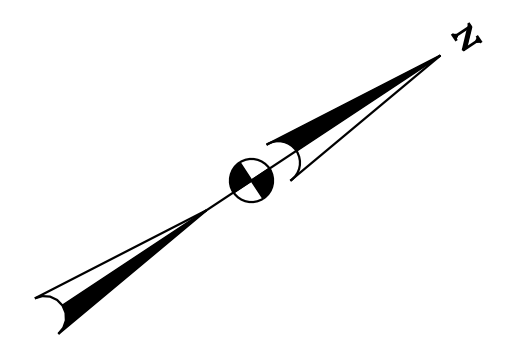
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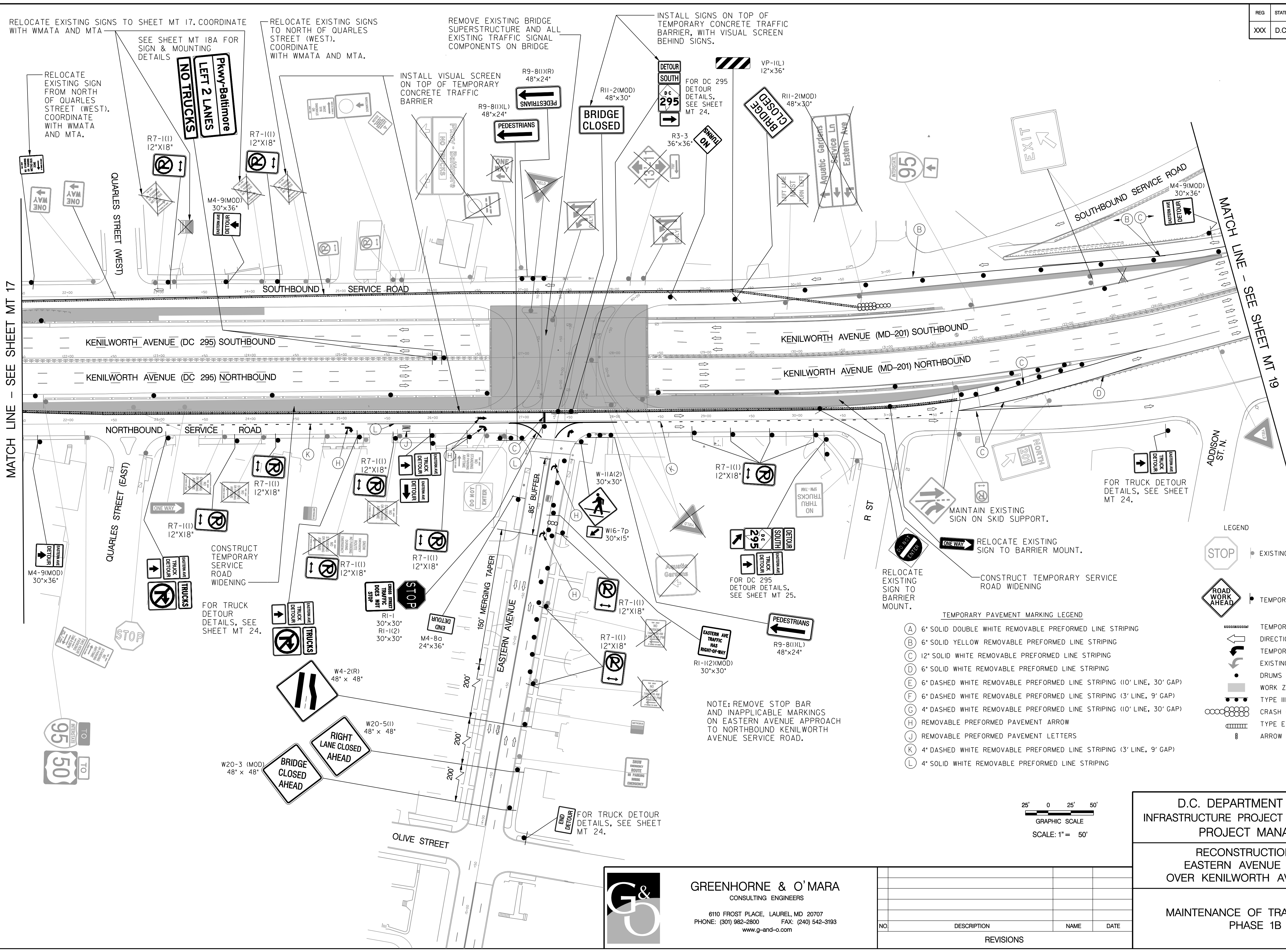
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REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	53	242

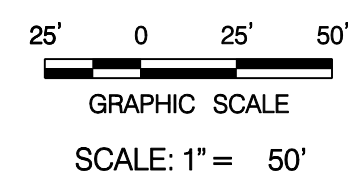


- CONSTRUCTION NOTES:
1. ALL EXISTING SIGNS CROSSED OUT ON PLAN SHEETS AND NOT ON EXISTING BRIDGE ARE TO BE COVERED. SIGNS ON EXISTING BRIDGE ARE TO BE REMOVED.
 2. MOUNTING FOR EXISTING "EASTERN AVE" AND "KENILWORTH AVE" STREET NAME SIGNS TO BE MAINTAINED BY BAGGING TRAFFIC SIGNAL POLES ON NORTHEAST AND SOUTHEAST CORNERS OF INTERSECTION AND LEAVING THEM IN PLACE UNTIL JUST BEFORE CONSTRUCTION OF PROPOSED SIGNAL POLES (DURING OR BEFORE PHASE 6). SEE SIGNAL PLANS FOR DETAILS.
 3. REMOVE EXISTING CROSSWALK MARKINGS ACROSS KENILWORTH AVENUE SERVICE ROAD.
 4. NO PARKING SIGNS SHOWN TO BE REMOVED SHALL BE STORED FOR REINSTALLATION AFTER COMPLETION OF PHASE 6.



- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



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PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

MATCH LINE - SEE SHEET MT 17

MATCH LINE - SEE SHEET MT 19

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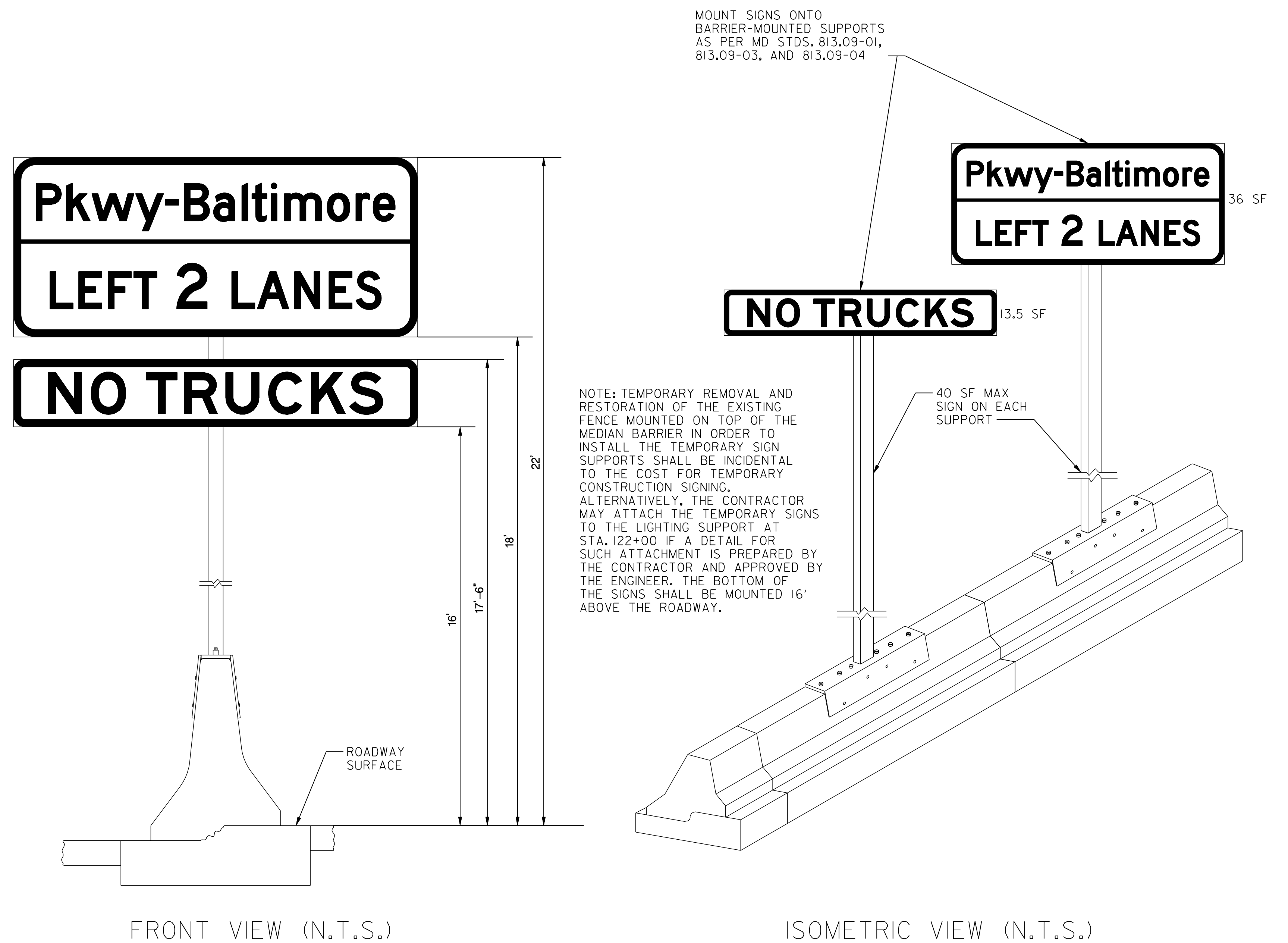
MT 18

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	54	242

SPECIAL SIGN DETAIL



MOUNTING DETAIL



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MT 18A

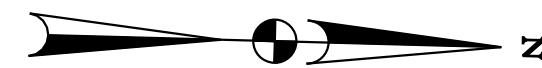
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RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STKSJL</u> PROJECT MGR. <u>JDS</u>
MAINTENANCE OF TRAFFIC SPECIAL SIGNING DETAILS	DIVISION CHIEF DATE _____ FILE _____

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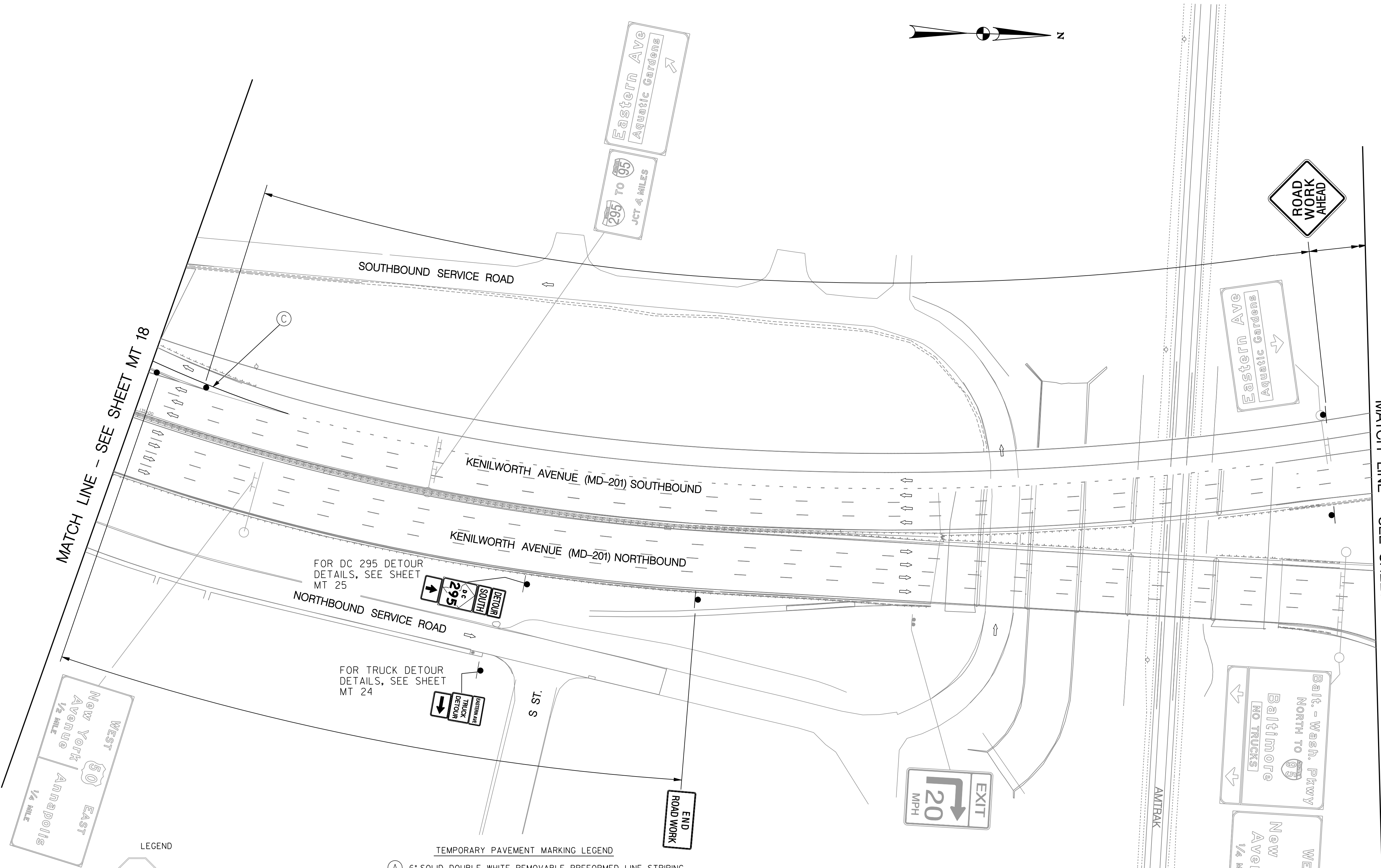
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	55	242



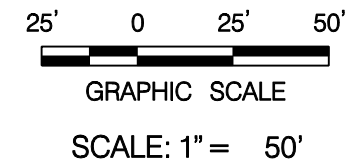
MATCH LINE - SEE SHEET MT 18

MATCH LINE - SEE SHEET MT 20



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6' SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (C) 12' SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
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 - (L) 4' SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 19

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 1B**

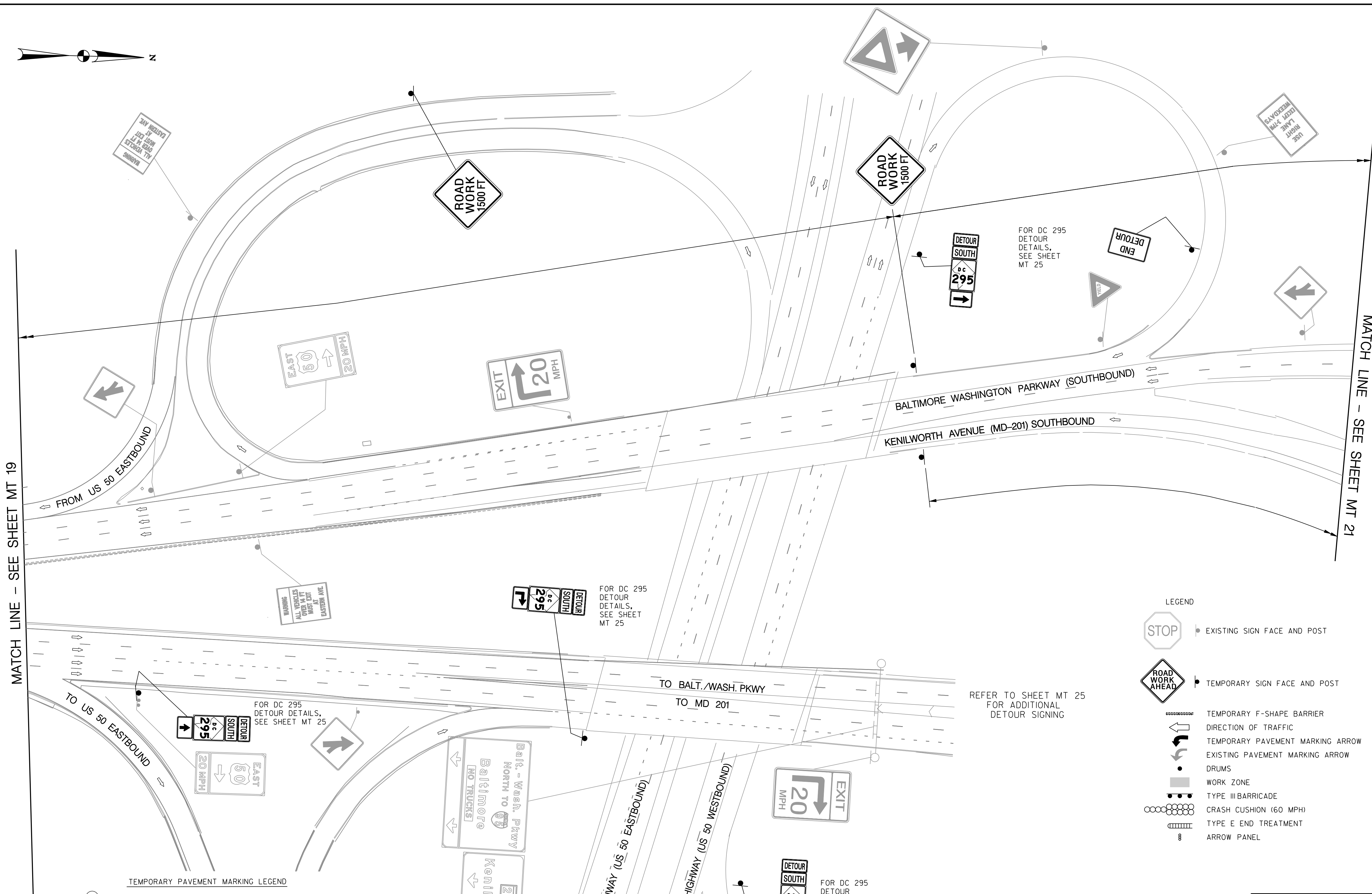
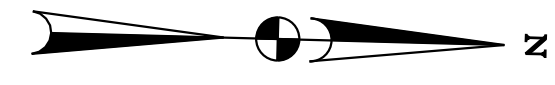
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____



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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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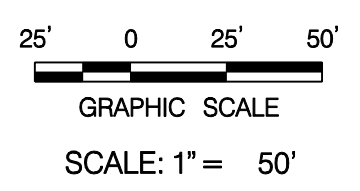
MATCH LINE - SEE SHEET MT 19

MATCH LINE - SEE SHEET MT 21

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

REFER TO SHEET MT 25 FOR ADDITIONAL DETOUR SIGNING

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 20

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

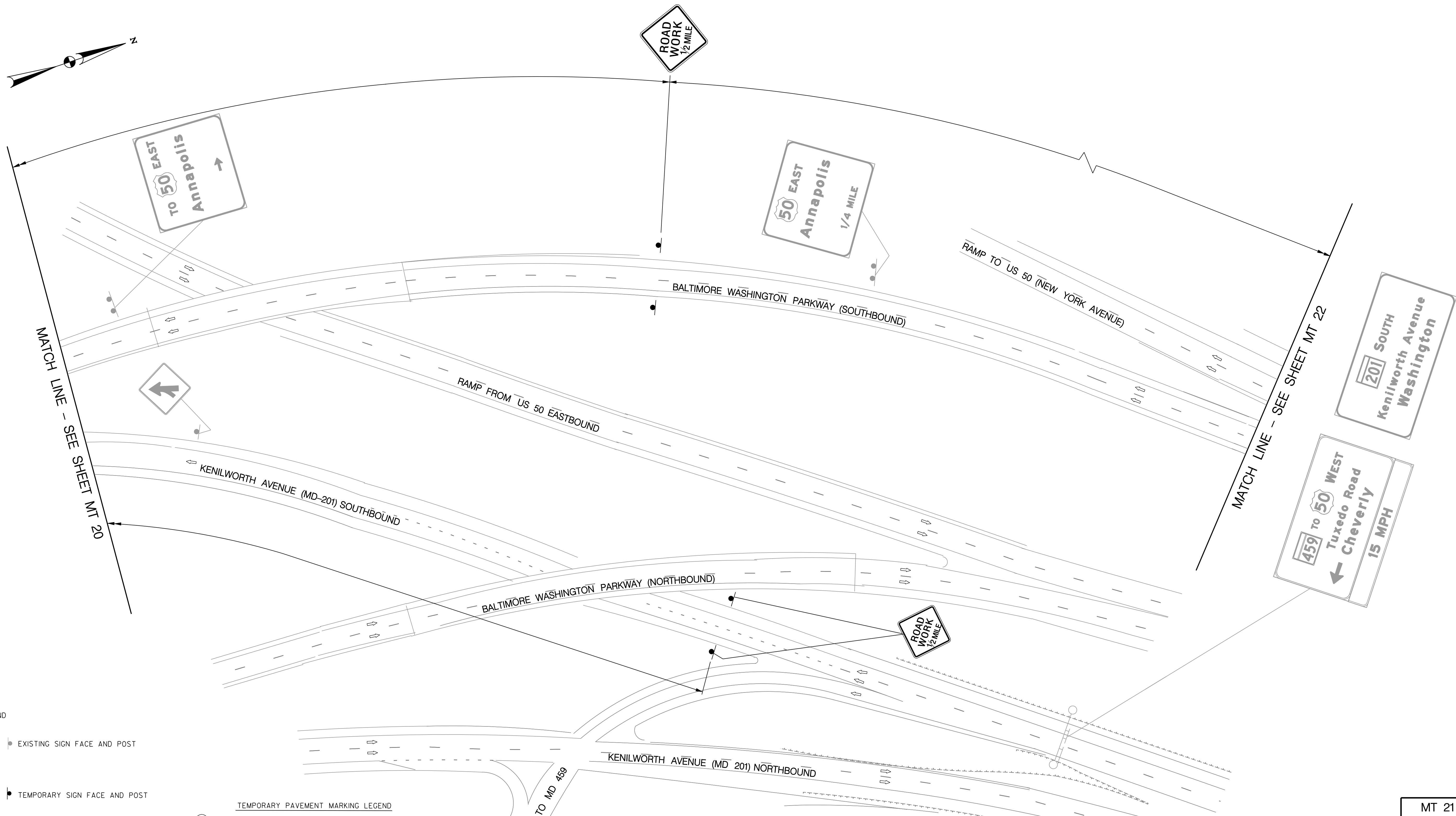
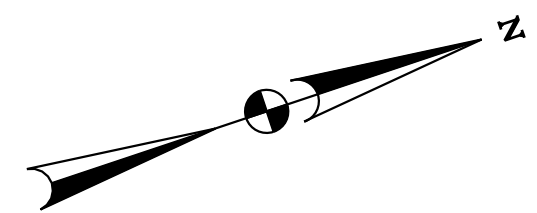
GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

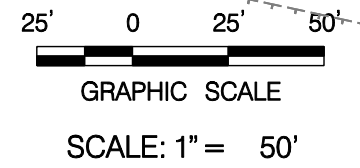
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	57	242



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 21

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

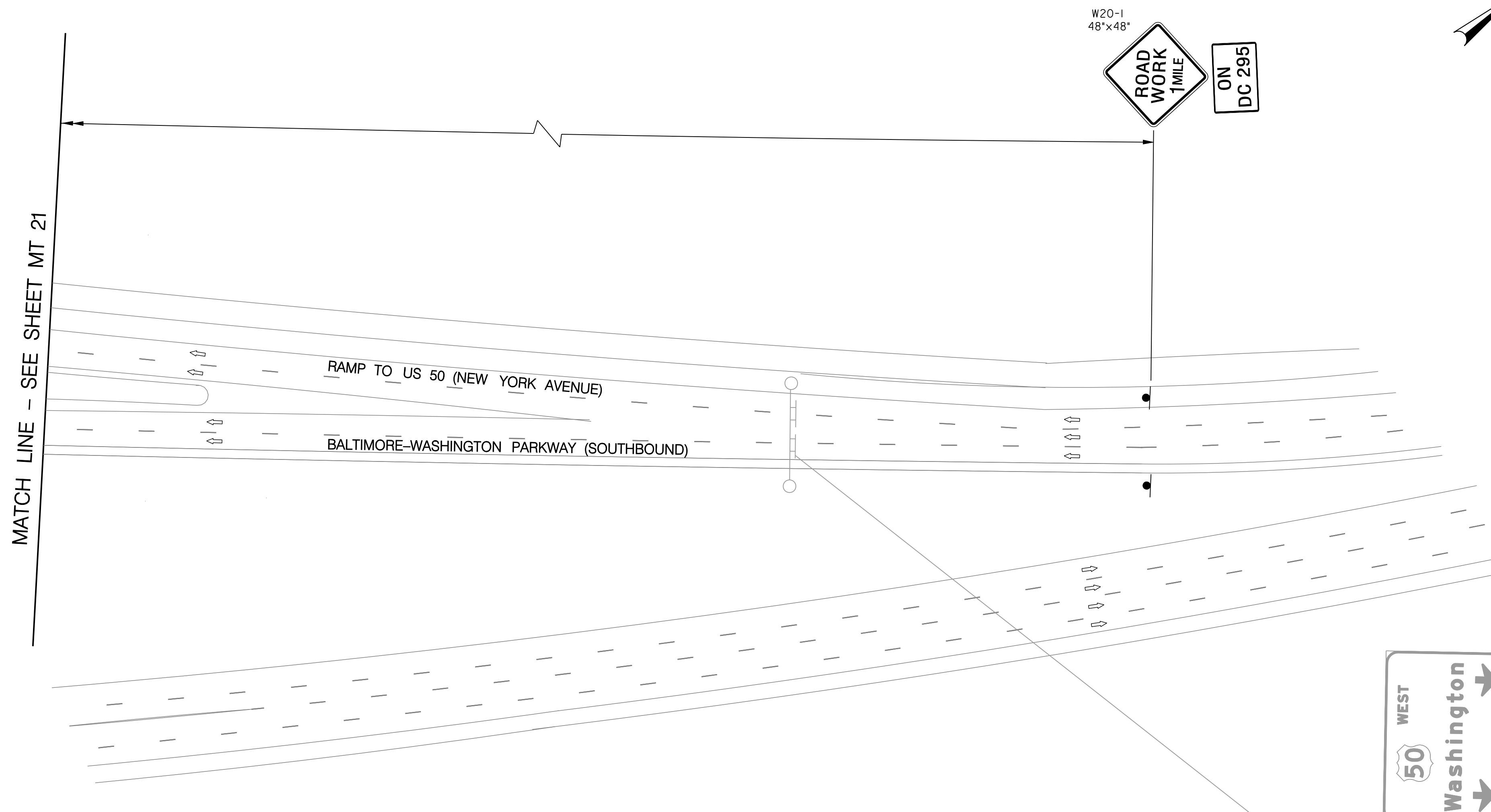
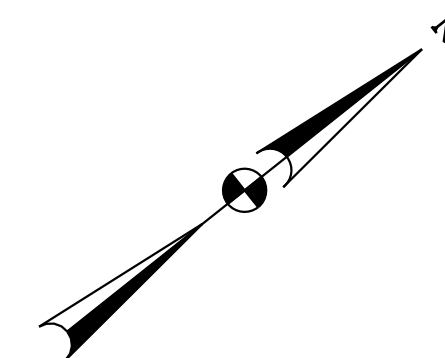
GREENHORNE & O'MARA
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6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

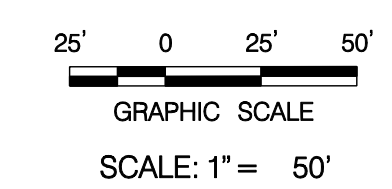
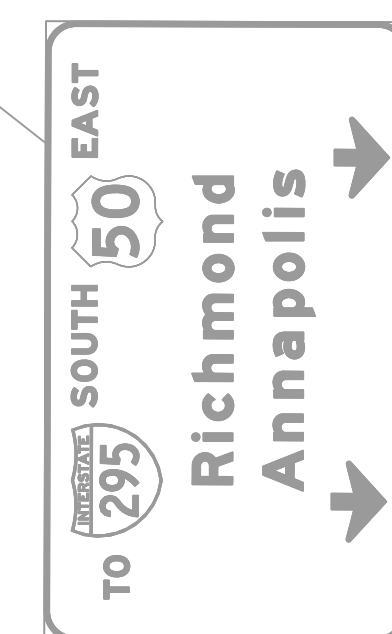
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - APA-3207(003) ROADWAY - APA-3207(004)	58	242



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 22

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 1B

PROJECT ENG. <u> </u> JDS
DESIGNED BY <u> </u> JDS
CHECKED BY <u> </u> JMC
DRAWN BY <u> </u> STK/SJL
PROJECT MGR. <u> </u> JES
DIVISION CHIEF
DATE <u> </u>
FILE <u> </u>

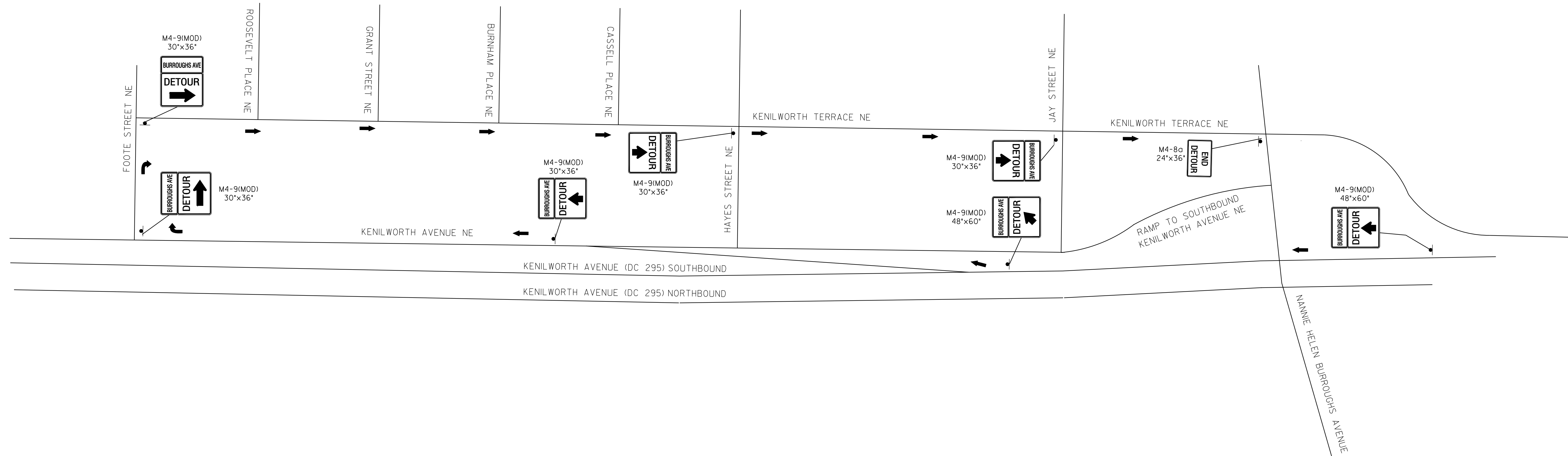
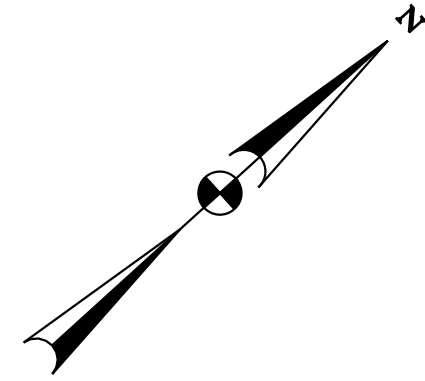
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REVISIONS			

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 Tuesday, March 31, 2009 AT 09:05 AM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	59	242



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MT 23

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
 DETOUR PLAN FOR
 NANNIE HELEN BURROUGHS AVE
 PHASES 1B-6

PROJECT ENG. JDS
 DESIGNED BY JDS
 CHECKED BY JMC
 DRAWN BY STK/SIL
 PROJECT MGR. JDS
 DIVISION CHIEF
 DATE _____
 FILE _____

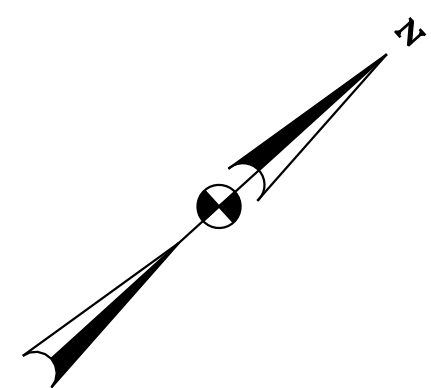
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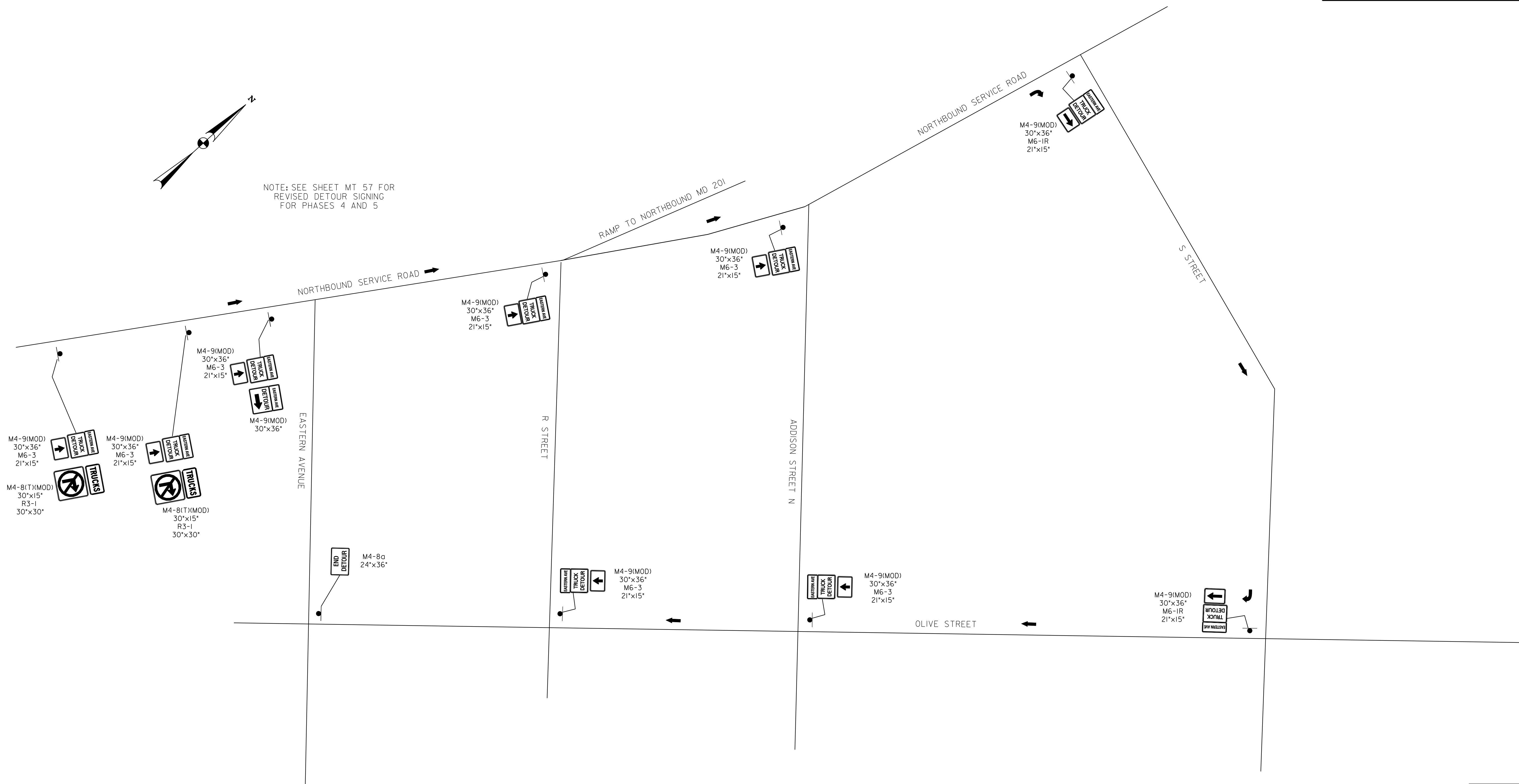
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	60	242



NOTE: SEE SHEET MT 57 FOR
REVISED DETOUR SIGNING
FOR PHASES 4 AND 5



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 Tuesday, March 31, 2009 AT 09:07 AM
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MT 24

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
TRUCK DETOUR FOR
TRAFFIC TO EASTERN AVENUE
PHASES 1B-3 AND 6

PROJECT ENG. JDS
 DESIGNED BY JDS
 CHECKED BY JMC
 DRAWN BY STK/SJL
 PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
 FILE _____

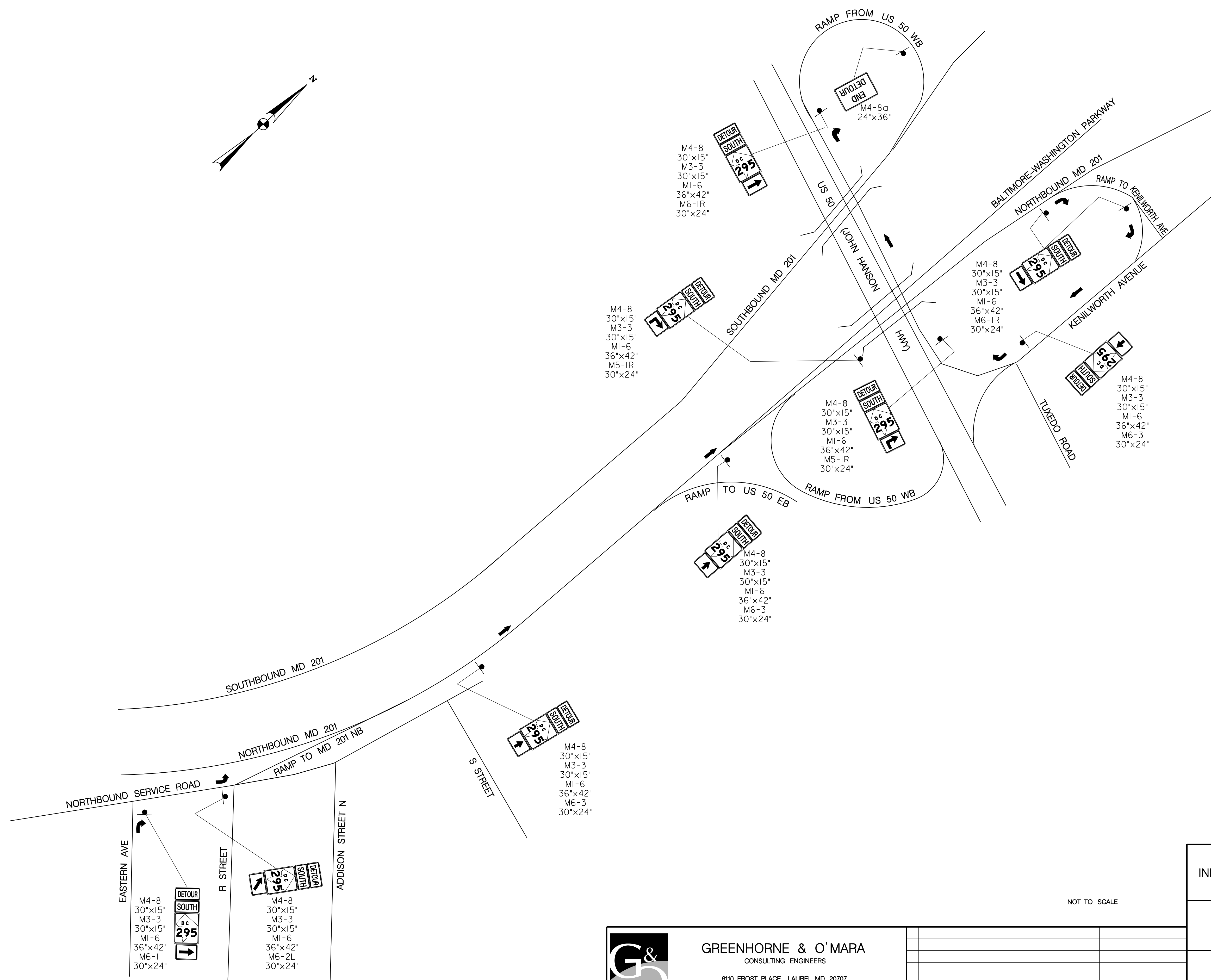
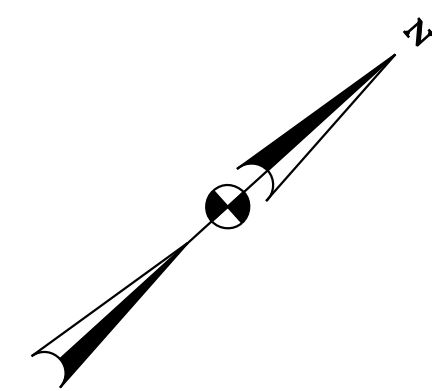
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	61	242



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MT 25

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
 DETOUR PLAN FOR
 TRAFFIC TO KENILWORTH AVENUE
 PHASES 1B-6

PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
DESIGNED BY <u>JDS</u>	DATE _____
CHECKED BY <u>JMC</u>	FILE _____
DRAWN BY <u>STKSJL</u>	
PROJECT MGR. <u>JDS</u>	

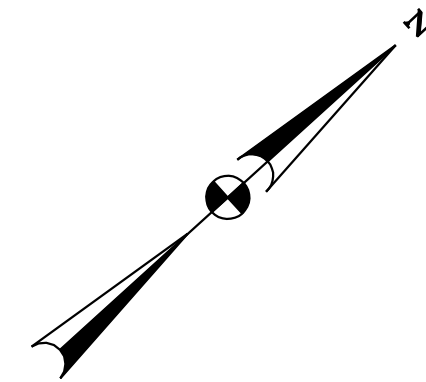
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NOT TO SCALE

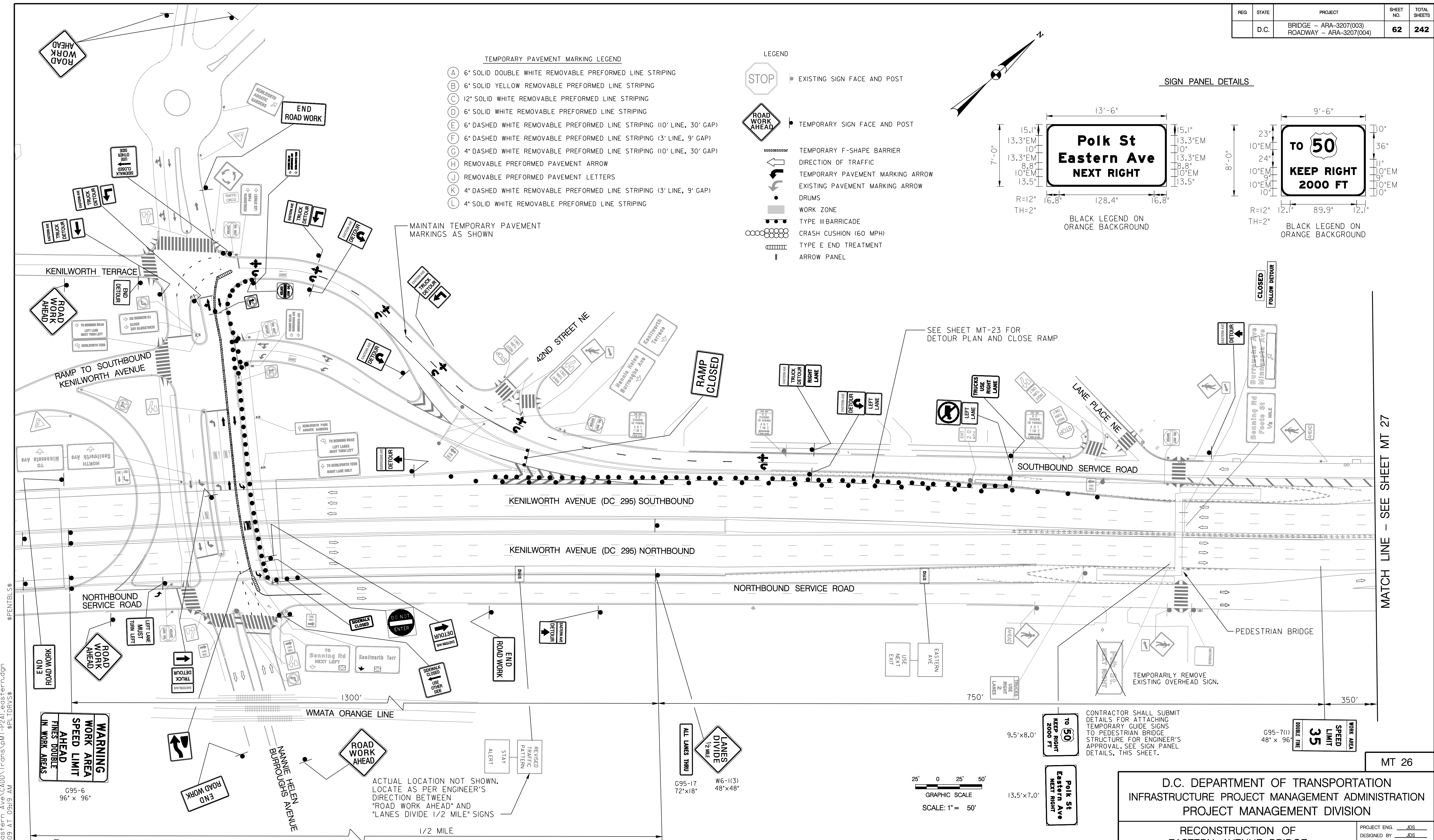
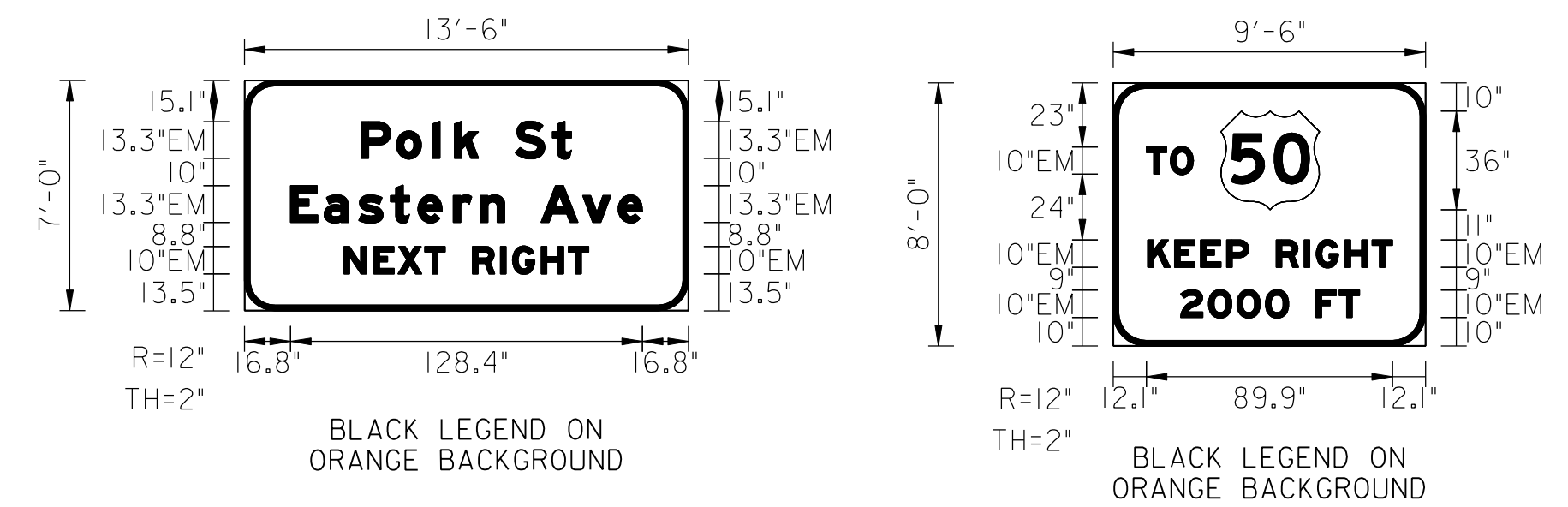
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

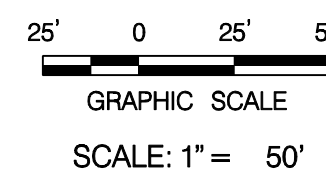


SIGN PANEL DETAILS

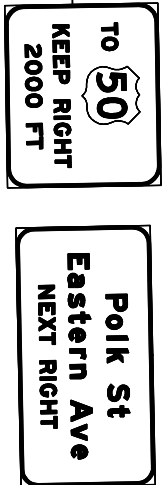


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MATCH LINE - SEE SHEET MT 27



CONTRACTOR SHALL SUBMIT DETAILS FOR ATTACHING TEMPORARY GUIDE SIGNS TO PEDESTRIAN BRIDGE STRUCTURE FOR ENGINEER'S APPROVAL. SEE SIGN PANEL DETAILS, THIS SHEET.



MT 26

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

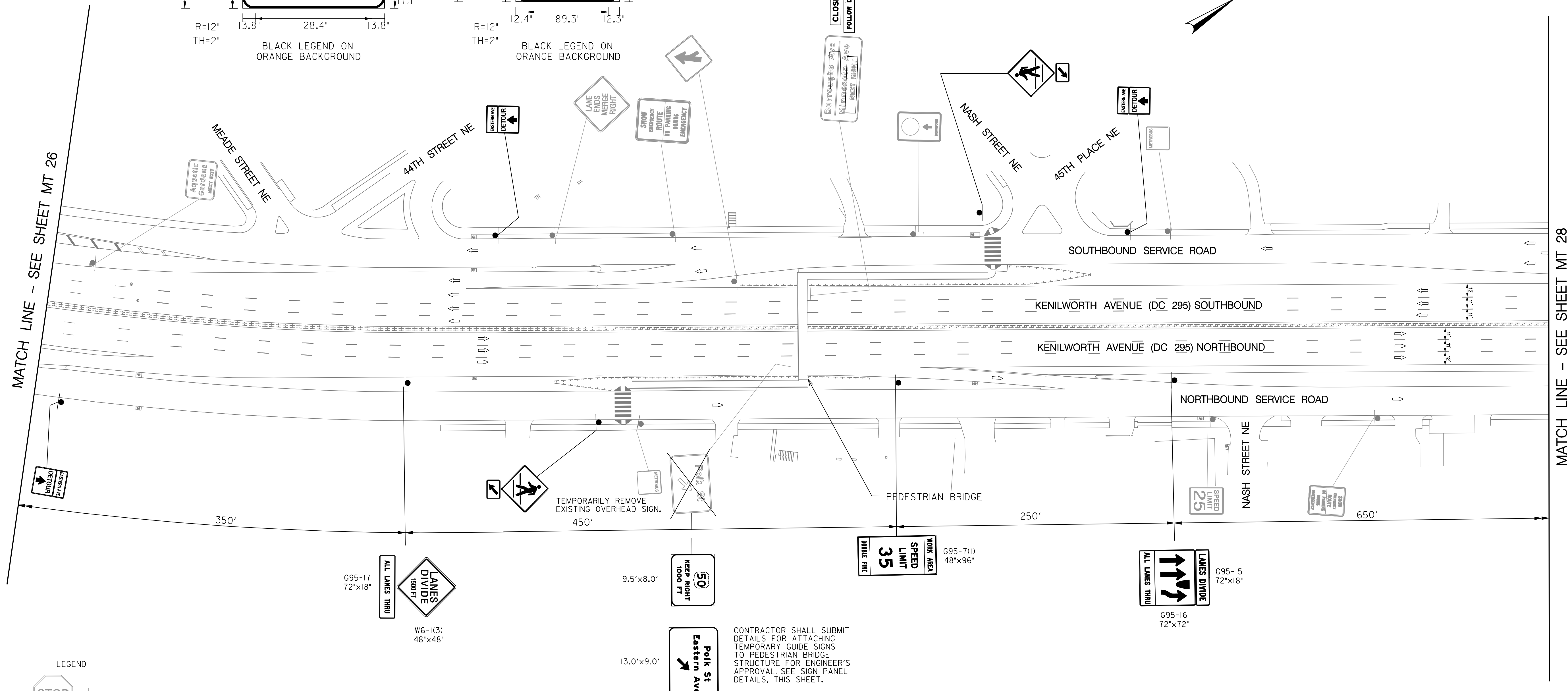
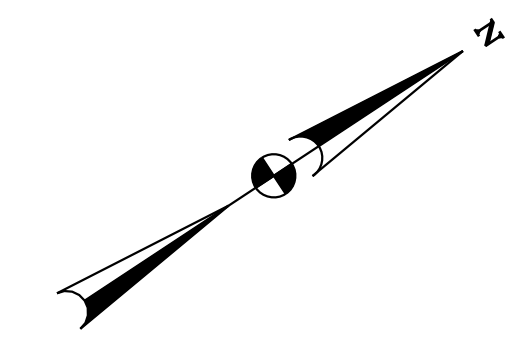
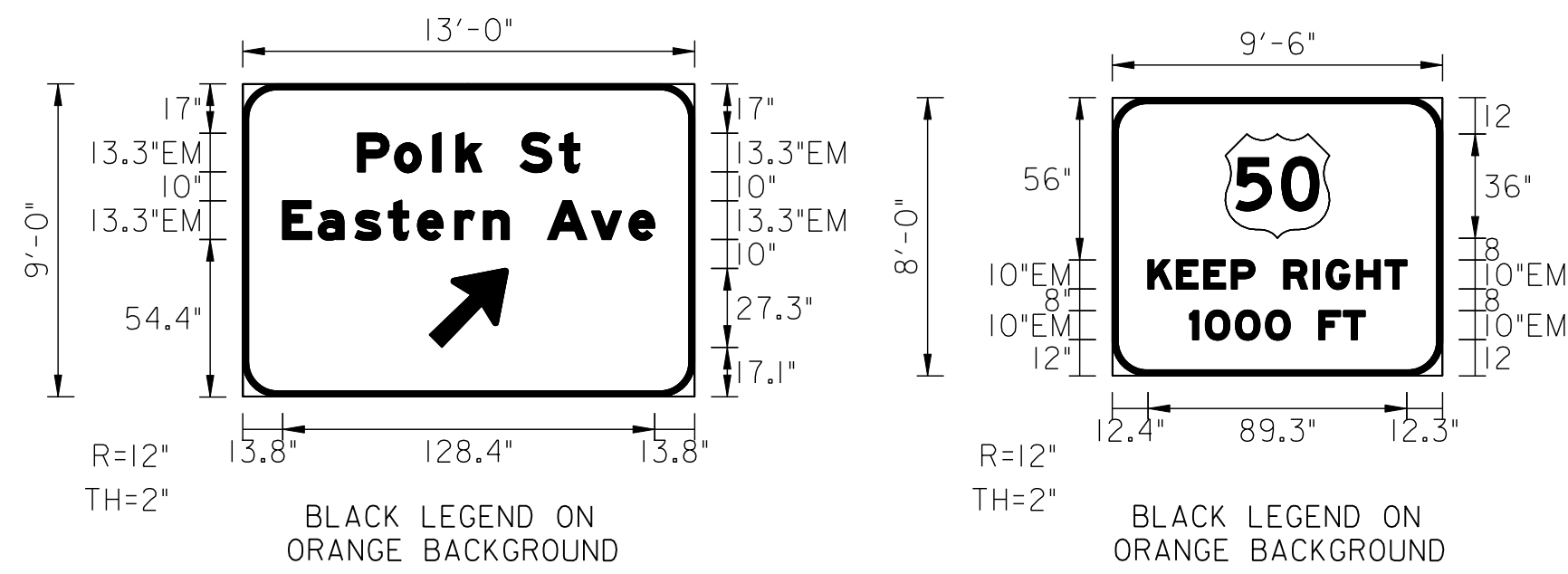
MAINTENANCE OF TRAFFIC PLAN
PHASE 2A

PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JMC</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STK/SIL</u> PROJECT MGR. <u>JDS</u>	DIVISION CHIEF DATE _____ FILE _____
--	--

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 CONSULTING ENGINEERS
 6110 FROST PLACE, LAUREL, MD 20707
 PHONE: (301) 982-2800 FAX: (240) 542-3193
 www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

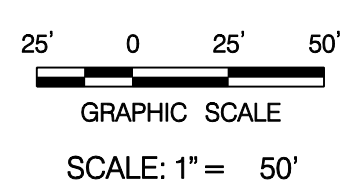
SIGN PANEL DETAILS



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

CONTRACTOR SHALL SUBMIT DETAILS FOR ATTACHING TEMPORARY GUIDE SIGNS TO PEDESTRIAN BRIDGE STRUCTURE FOR ENGINEER'S APPROVAL. SEE SIGN PANEL DETAILS, THIS SHEET.



MATCH LINE - SEE SHEET MT 28

MATCH LINE - SEE SHEET MT 26

MT 27

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 2A

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

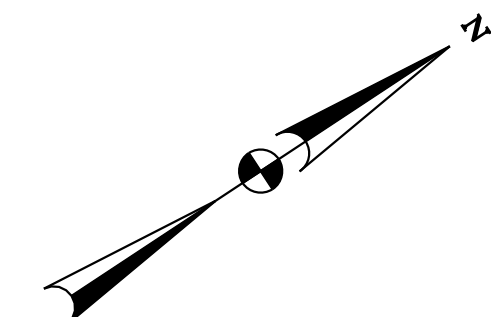
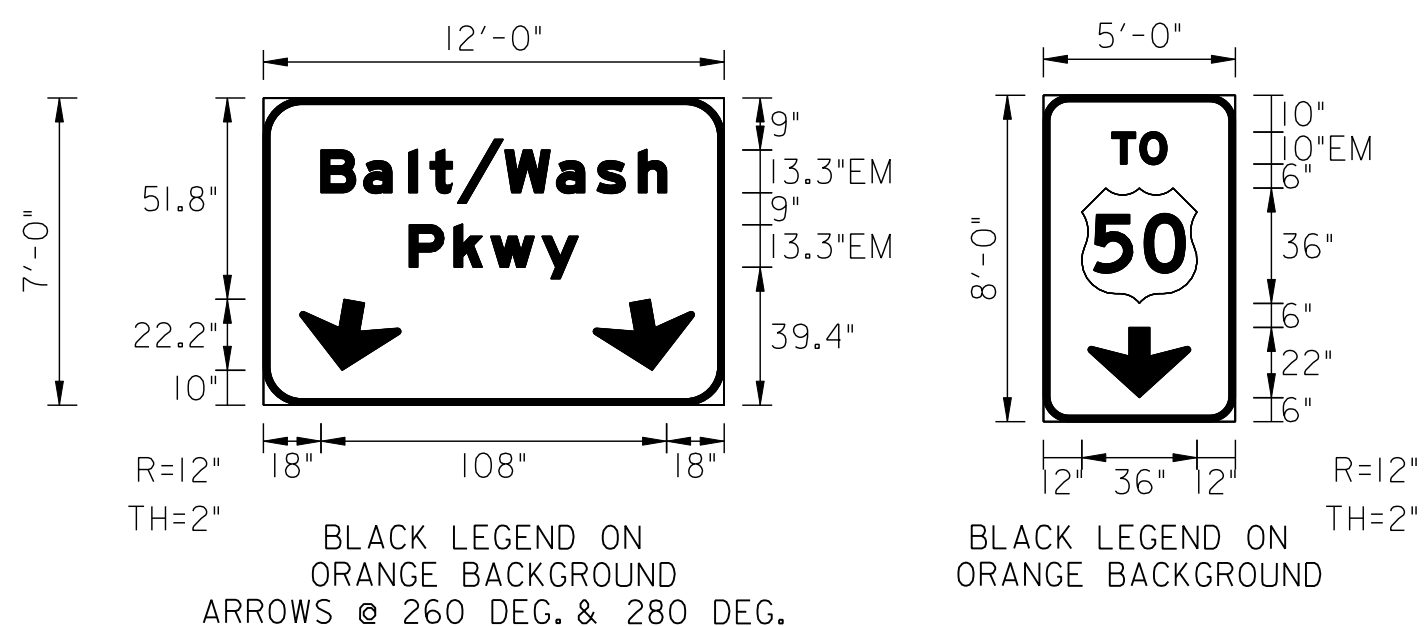
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

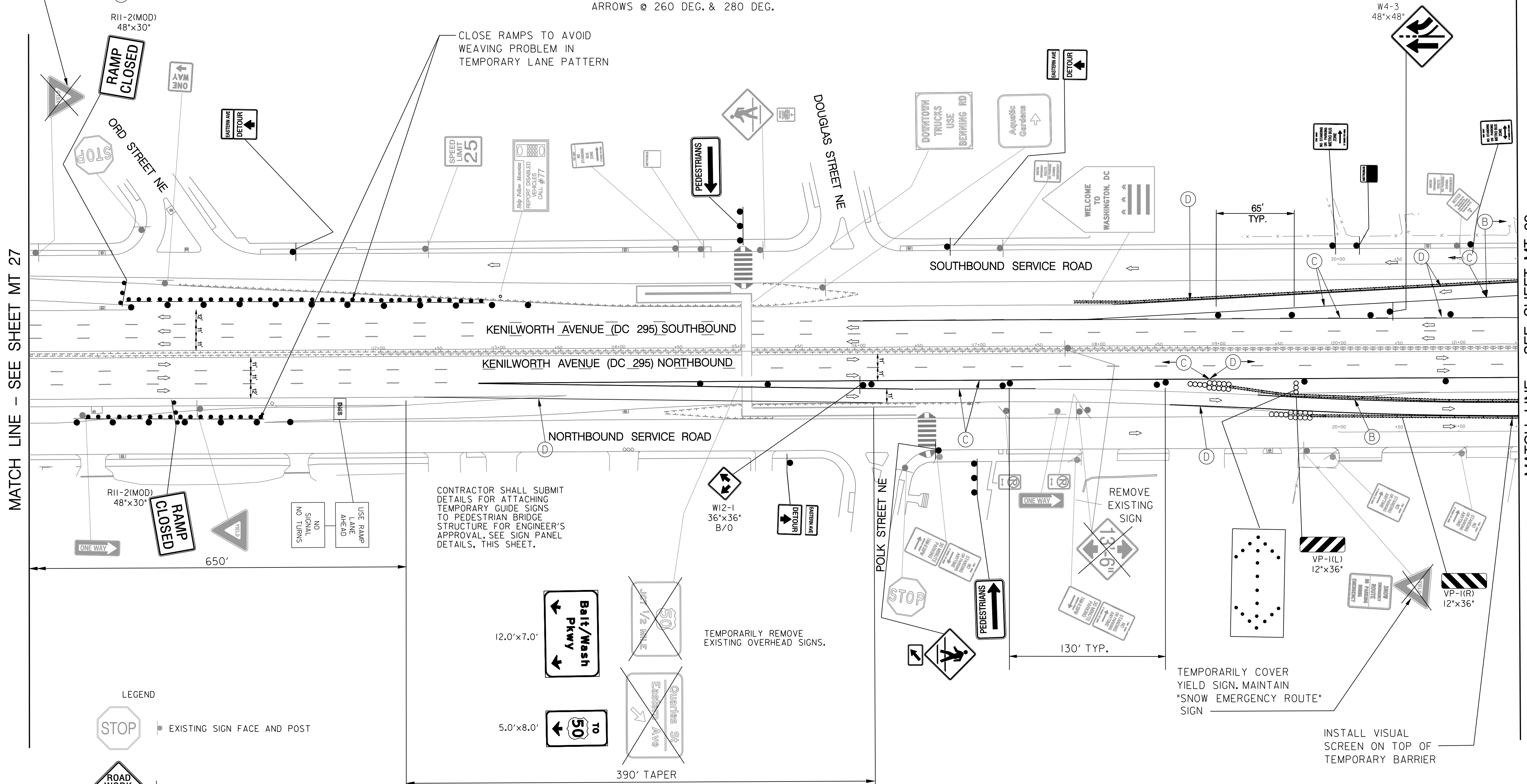
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- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

SIGN PANEL DETAILS



TEMPORARILY COVER EXISTING SIGN



MATCH LINE - SEE SHEET MT 27

MATCH LINE - SEE SHEET MT 29

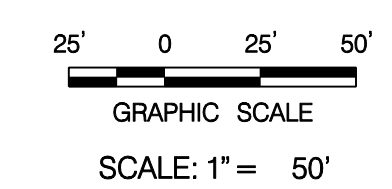
CONTRACTOR SHALL SUBMIT DETAILS FOR ATTACHING TEMPORARY GUIDE SIGNS TO PEDESTRIAN BRIDGE STRUCTURE FOR ENGINEER'S APPROVAL, SEE SIGN PANEL DETAILS, THIS SHEET.

TEMPORARILY REMOVE EXISTING OVERHEAD SIGNS.

TEMPORARILY COVER YIELD SIGN. MAINTAIN "SNOW EMERGENCY ROUTE" SIGN

INSTALL VISUAL SCREEN ON TOP OF TEMPORARY BARRIER

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRIER
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MT 28

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 2A

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SJL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

GREENHORNE & O'MARA
CONSULTING ENGINEERS

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PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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LEGEND

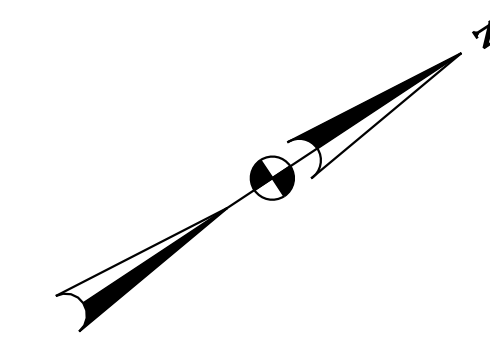
- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL

TEMPORARY PAVEMENT MARKING LEGEND

- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (H) REMOVABLE PREFORMED PAVEMENT ARROW
- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

CONSTRUCTION NOTE:

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING FOR THE EXCAVATION TO INSTALL NEW STORM DRAIN PIPES. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A STRUCTURAL DETAIL ILLUSTRATING HOW THE ADJACENT TEMPORARY CONCRETE BARRIER WILL BE SECURED TO THE PAVEMENT TO PREVENT DEFLECTION OF THE BARRIER INTO THE EXCAVATED AREA IF IMPACTED BY AN ERRANT VEHICLE. PAYMENT FOR THESE ITEMS SHALL BE INCIDENTAL TO THE PAYMENT FOR PORTABLE PCC BARRIER.

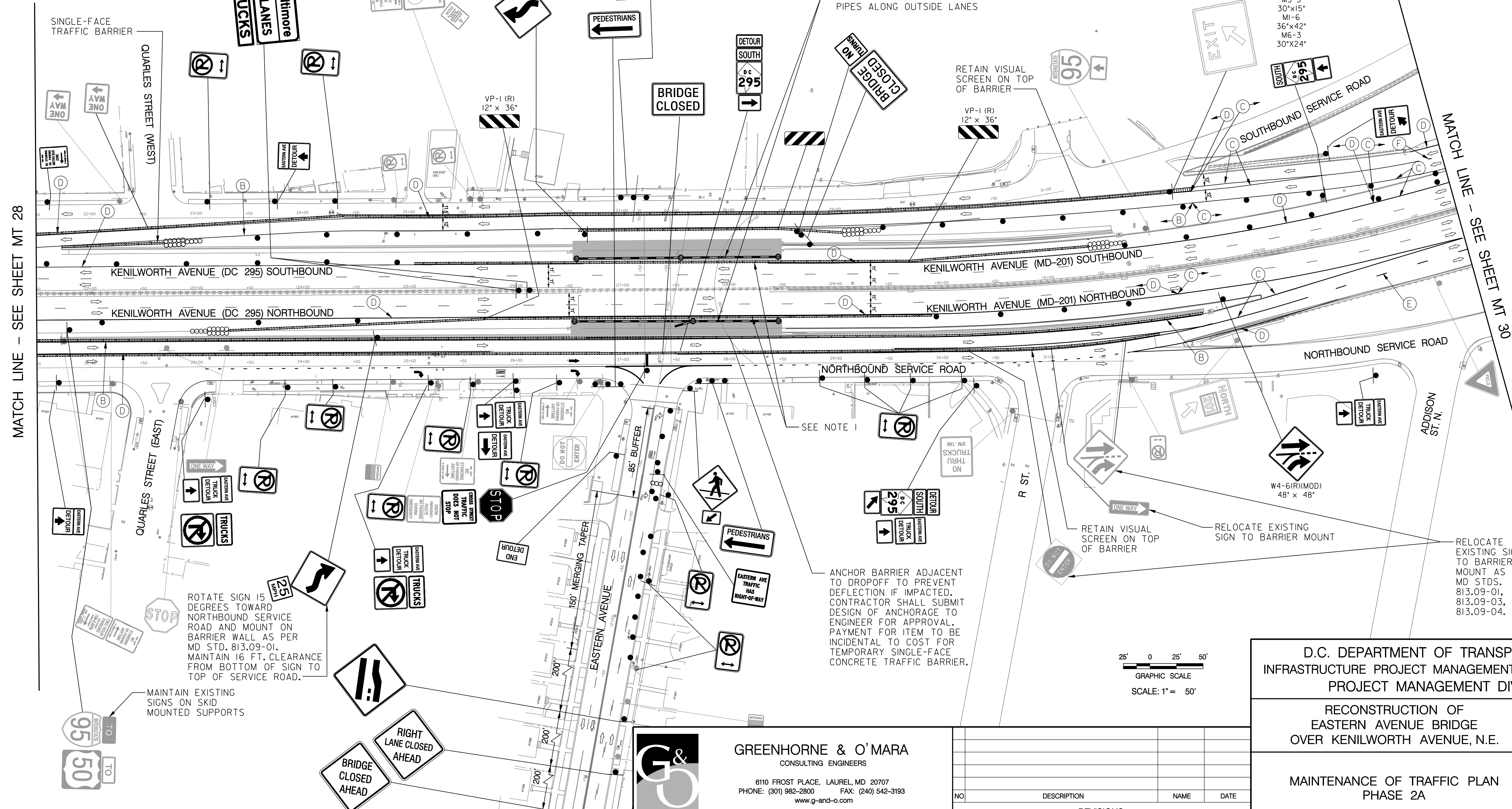


RELOCATE EXISTING SIGN ONTO BARRIER-MOUNTED SUPPORT AS PER MD STDS. 813.09-01, 813.09-03 AND 813.09-04. MAINTAIN 16 FT. CLEARANCE FROM BOTTOM OF SIGN TO TOP OF ROADWAY

CONSTRUCT NEW STORM DRAIN PIPES ALONG OUTSIDE LANES

RETAIN VISUAL SCREEN ON TOP OF BARRIER

M3-3
30"x15"
M1-6
36"x42"
M6-3
30"x24"



MATCH LINE - SEE SHEET MT 28

MATCH LINE - SEE SHEET MT 30

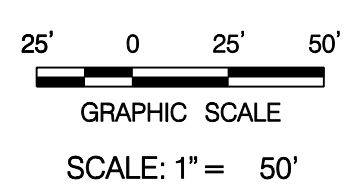
ROTATE SIGN 15 DEGREES TOWARD NORTHBOUND SERVICE ROAD AND MOUNT ON BARRIER WALL AS PER MD STD. 813.09-01. MAINTAIN 16 FT. CLEARANCE FROM BOTTOM OF SIGN TO TOP OF SERVICE ROAD.

MAINTAIN EXISTING SIGNS ON SKID MOUNTED SUPPORTS

ANCHOR BARRIER ADJACENT TO DROPOFF TO PREVENT DEFLECTION IF IMPACTED. CONTRACTOR SHALL SUBMIT DESIGN OF ANCHORAGE TO ENGINEER FOR APPROVAL. PAYMENT FOR ITEM TO BE INCIDENTAL TO COST FOR TEMPORARY SINGLE-FACE CONCRETE TRAFFIC BARRIER.

RELOCATE EXISTING SIGN TO BARRIER MOUNT

RELOCATE EXISTING SIGNS TO BARRIER MOUNT AS PER MD STDS. 813.09-01, 813.09-03, AND 813.09-04.



MT 29

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 2A

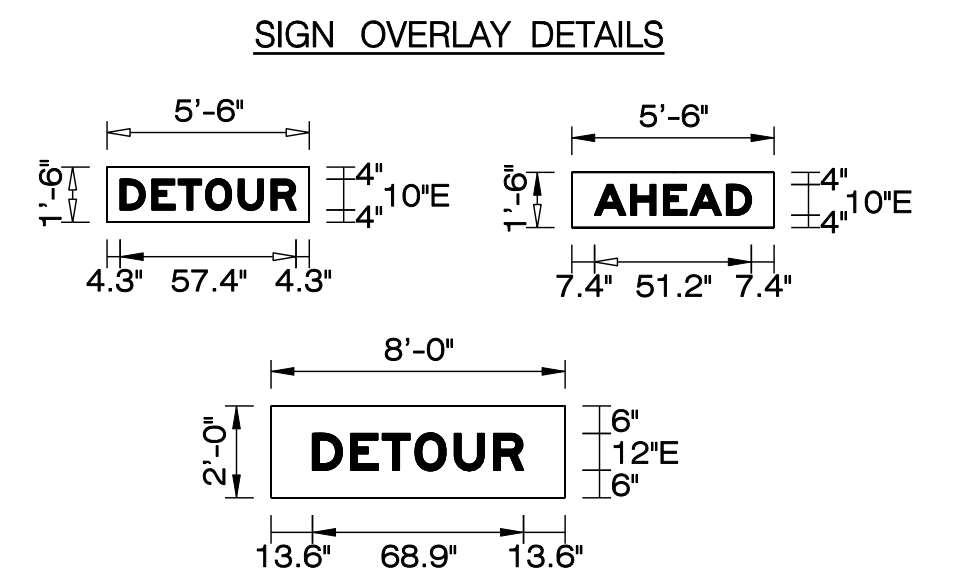
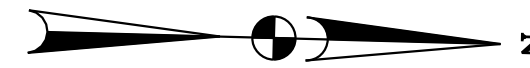
PROJECT ENG. <u>JDS</u>	DIVISION CHIEF _____
DESIGNED BY <u>JMC</u>	DATE _____
CHECKED BY <u>JMC</u>	FILE _____
DRAWN BY <u>STK/SJL</u>	
PROJECT MGR. <u>JDS</u>	

GREENHORNE & O'MARA
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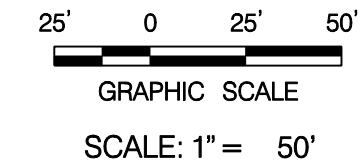
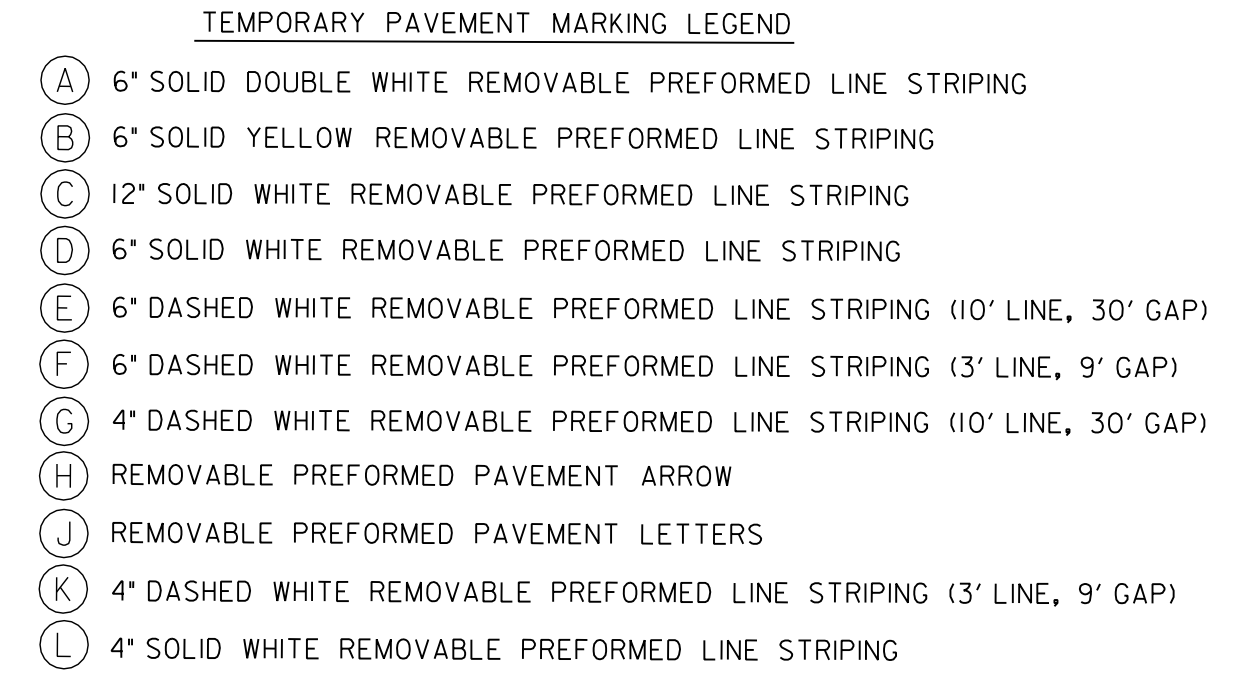
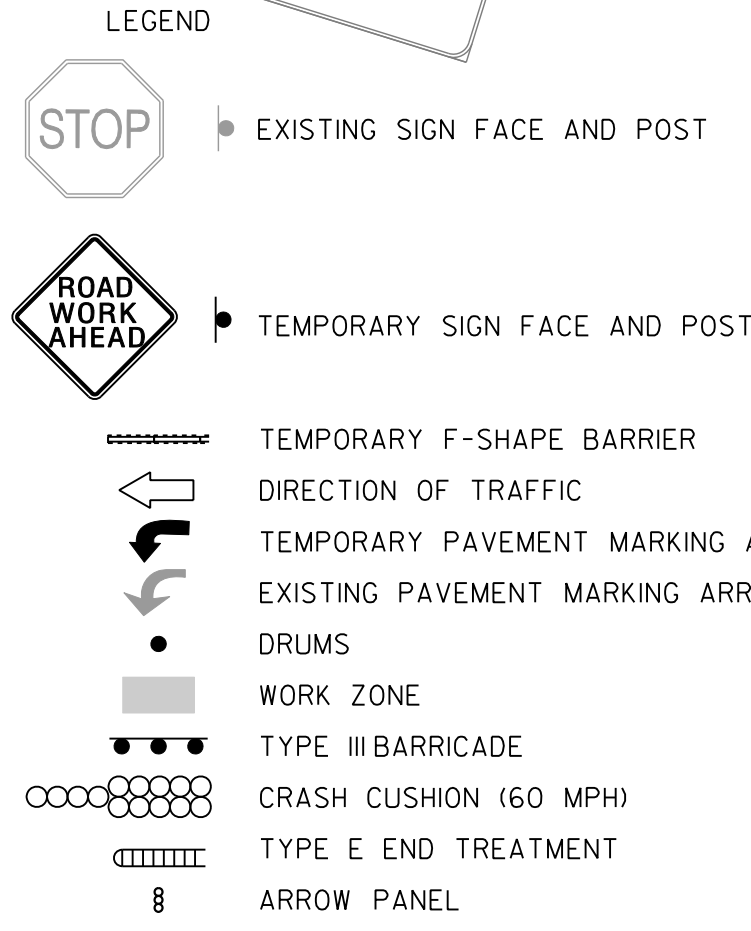
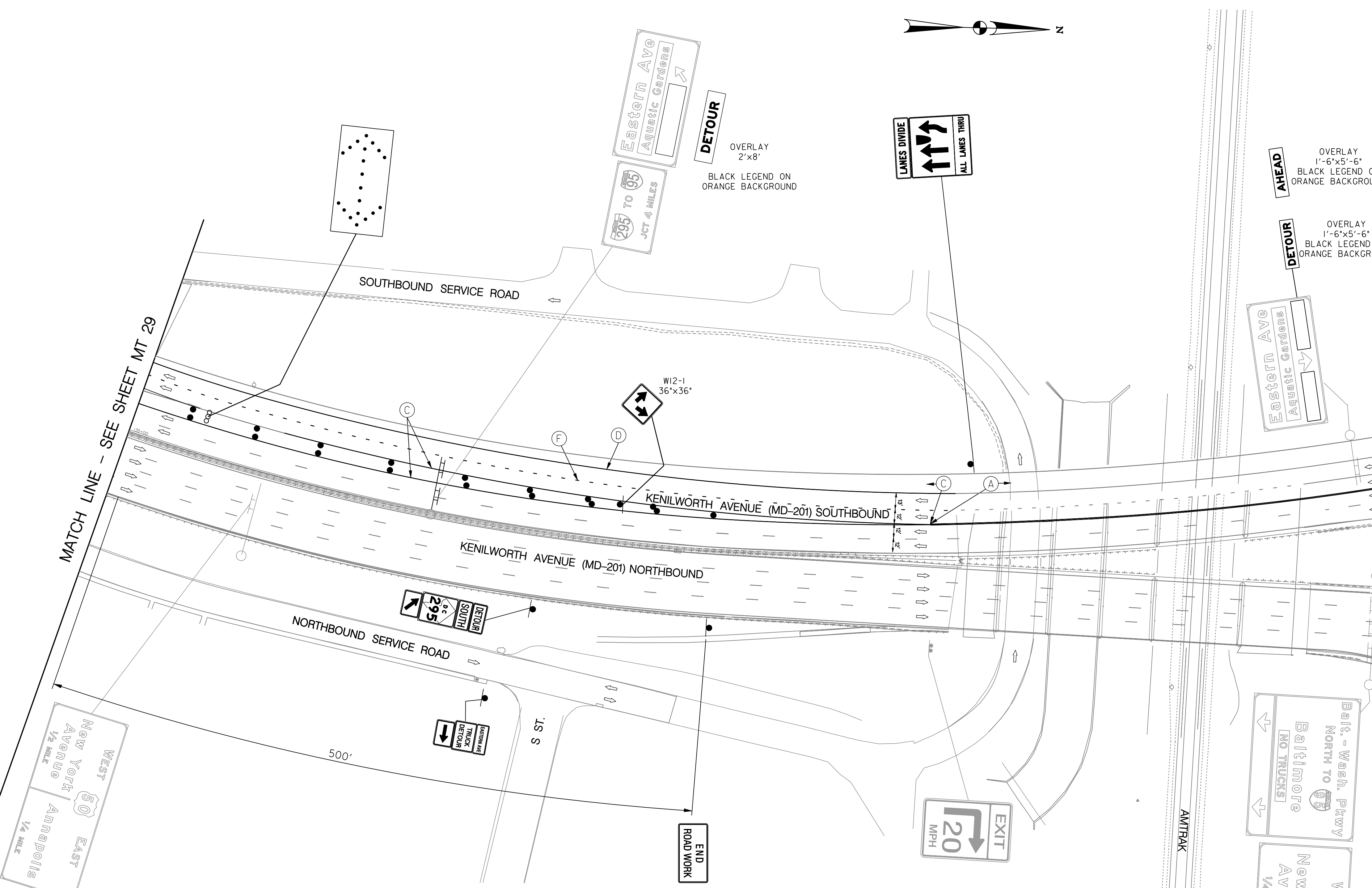
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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MATCH LINE - SEE SHEET MT 29

MATCH LINE - SEE SHEET MT 31



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

MT 30

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

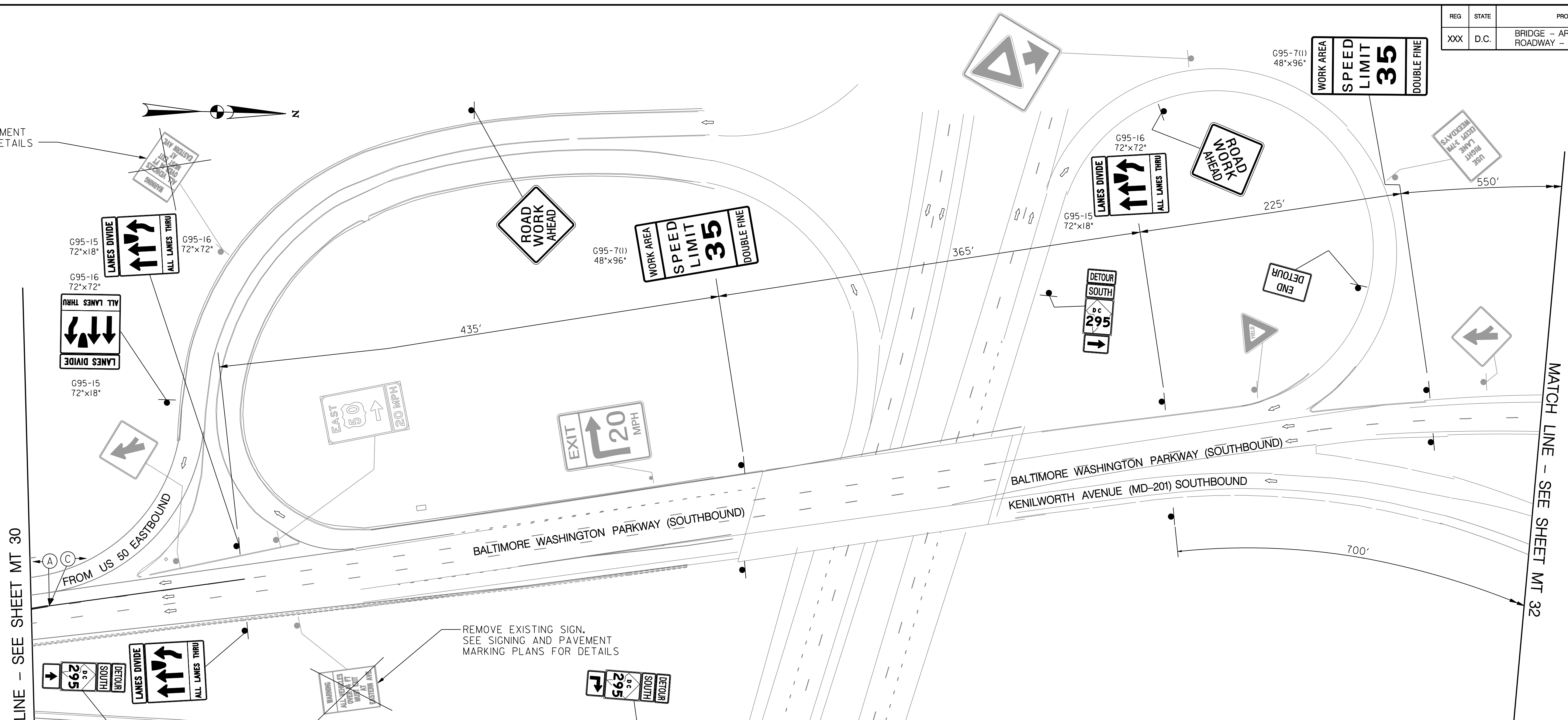
**MAINTENANCE OF TRAFFIC PLAN
PHASE 2A**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	67	242

REMOVE EXISTING SIGN.
SEE SIGNING AND PAVEMENT
MARKING PLANS FOR DETAILS



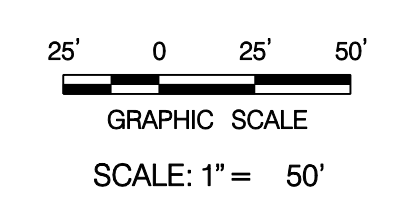
MATCH LINE - SEE SHEET MT 30

MATCH LINE - SEE SHEET MT 32

REMOVE EXISTING SIGN.
SEE SIGNING AND PAVEMENT
MARKING PLANS FOR DETAILS

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MT 31

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

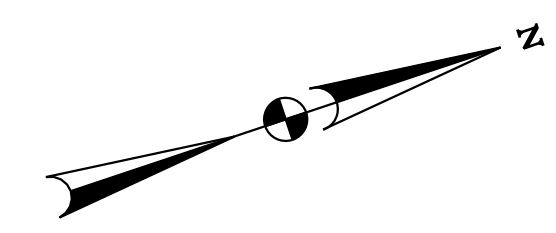
MAINTENANCE OF TRAFFIC PLAN
PHASE 2A

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS
DIVISION CHIEF
DATE
FILE

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

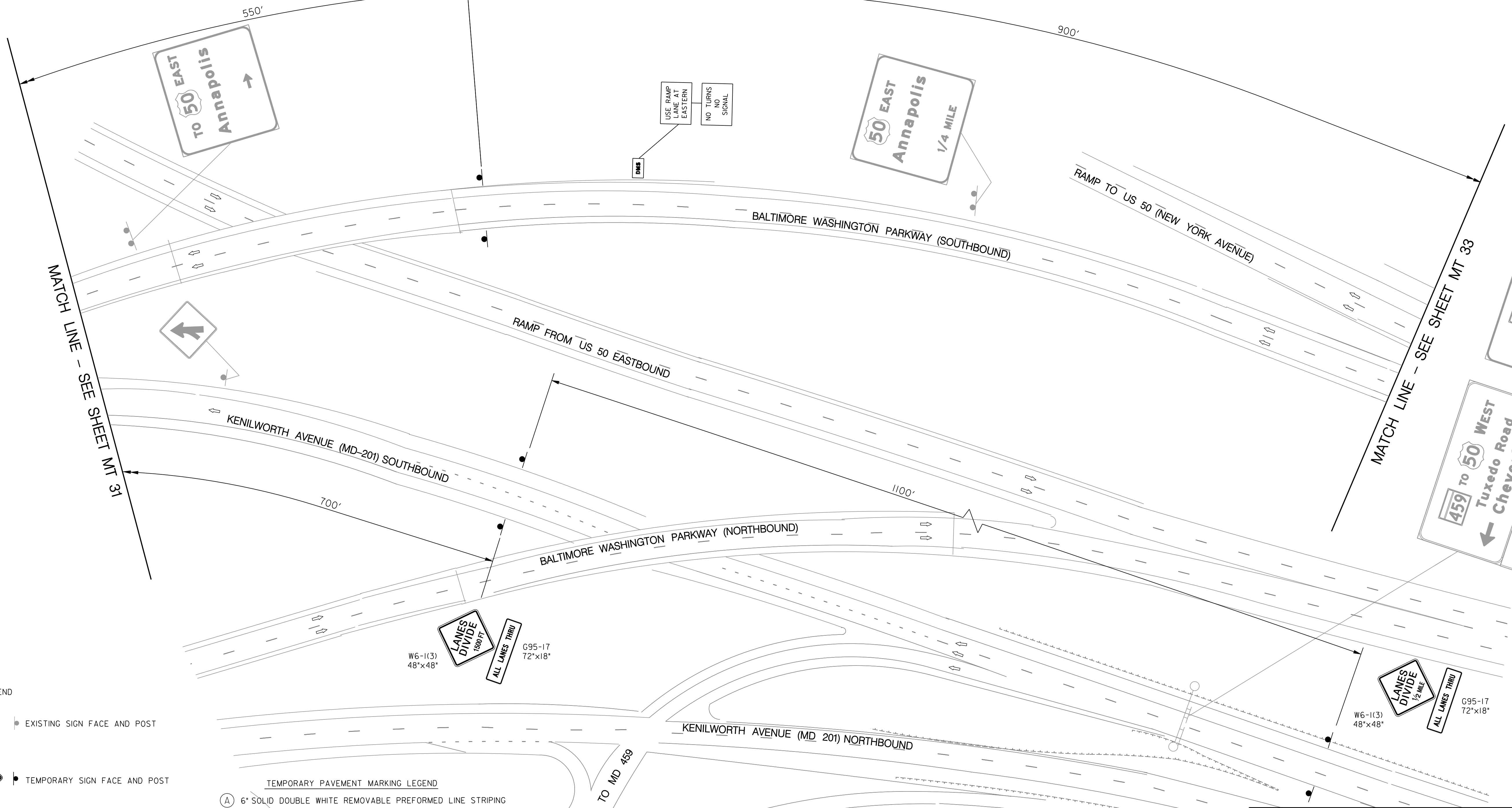
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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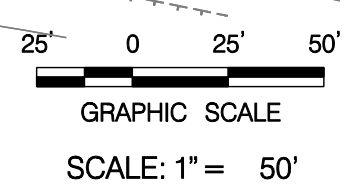
MATCH LINE - SEE SHEET MT 31

MATCH LINE - SEE SHEET MT 33



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 32

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 2A**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

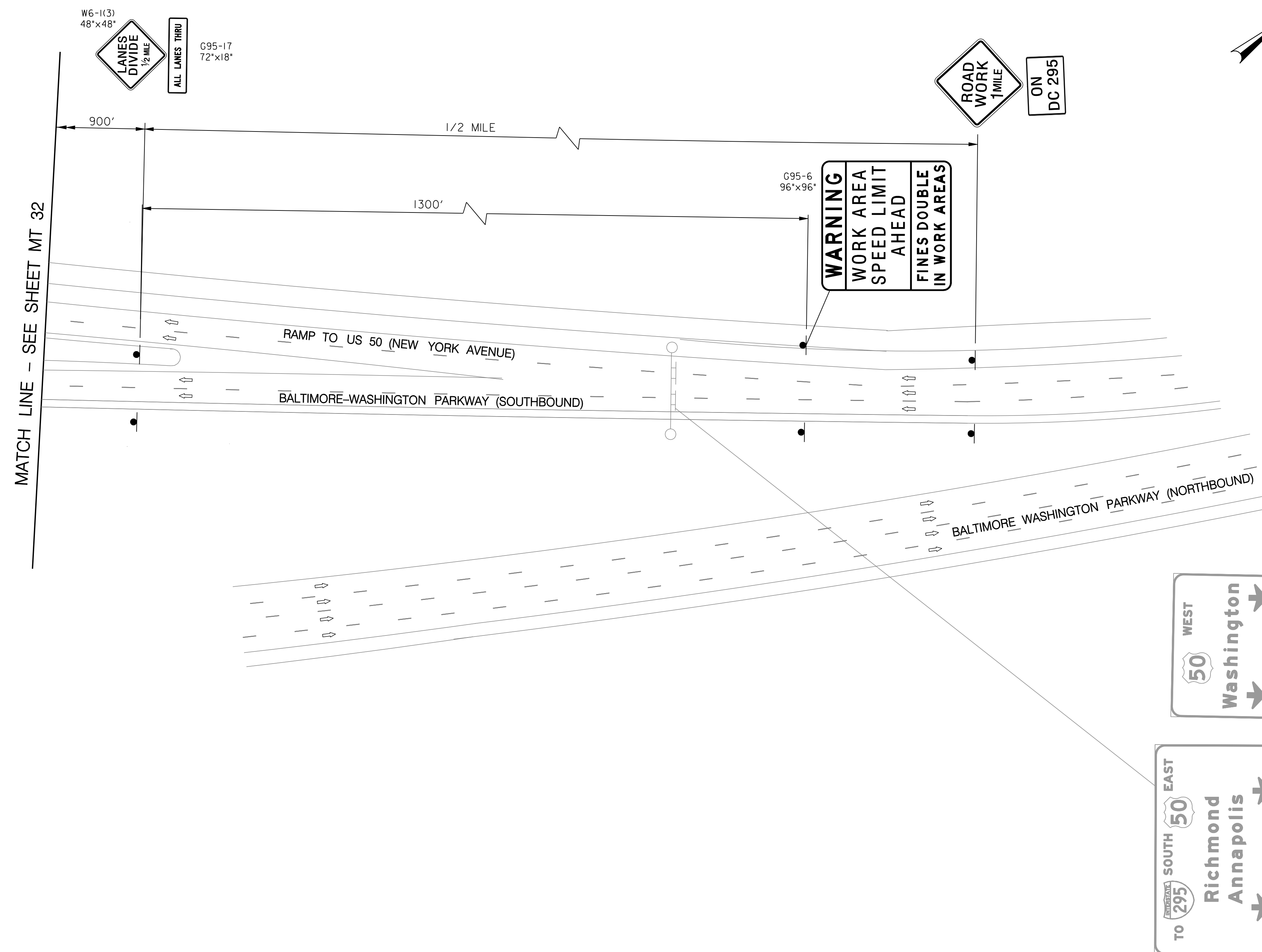
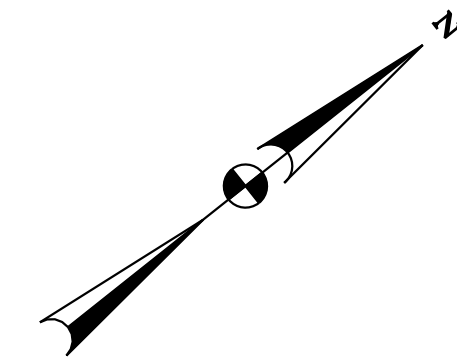
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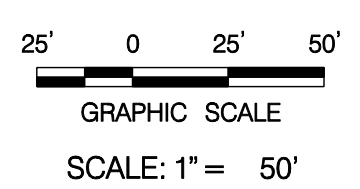
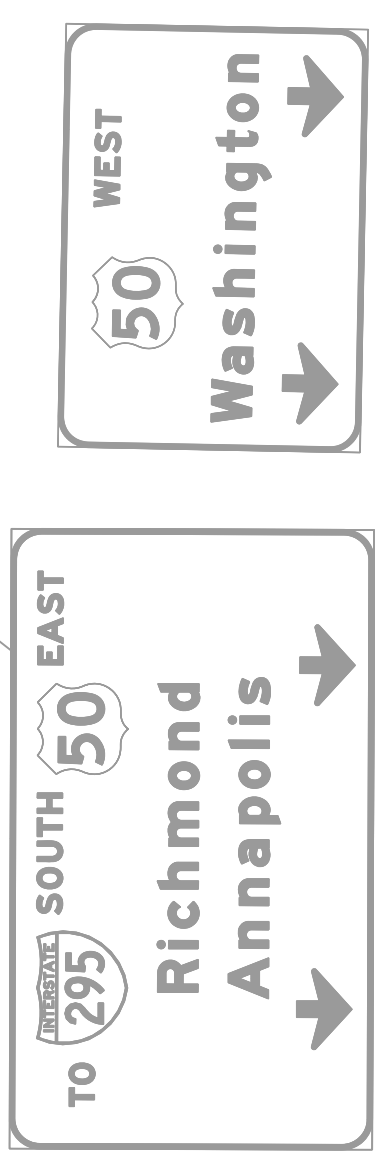
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REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	69	242



- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 32

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

MT 33

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

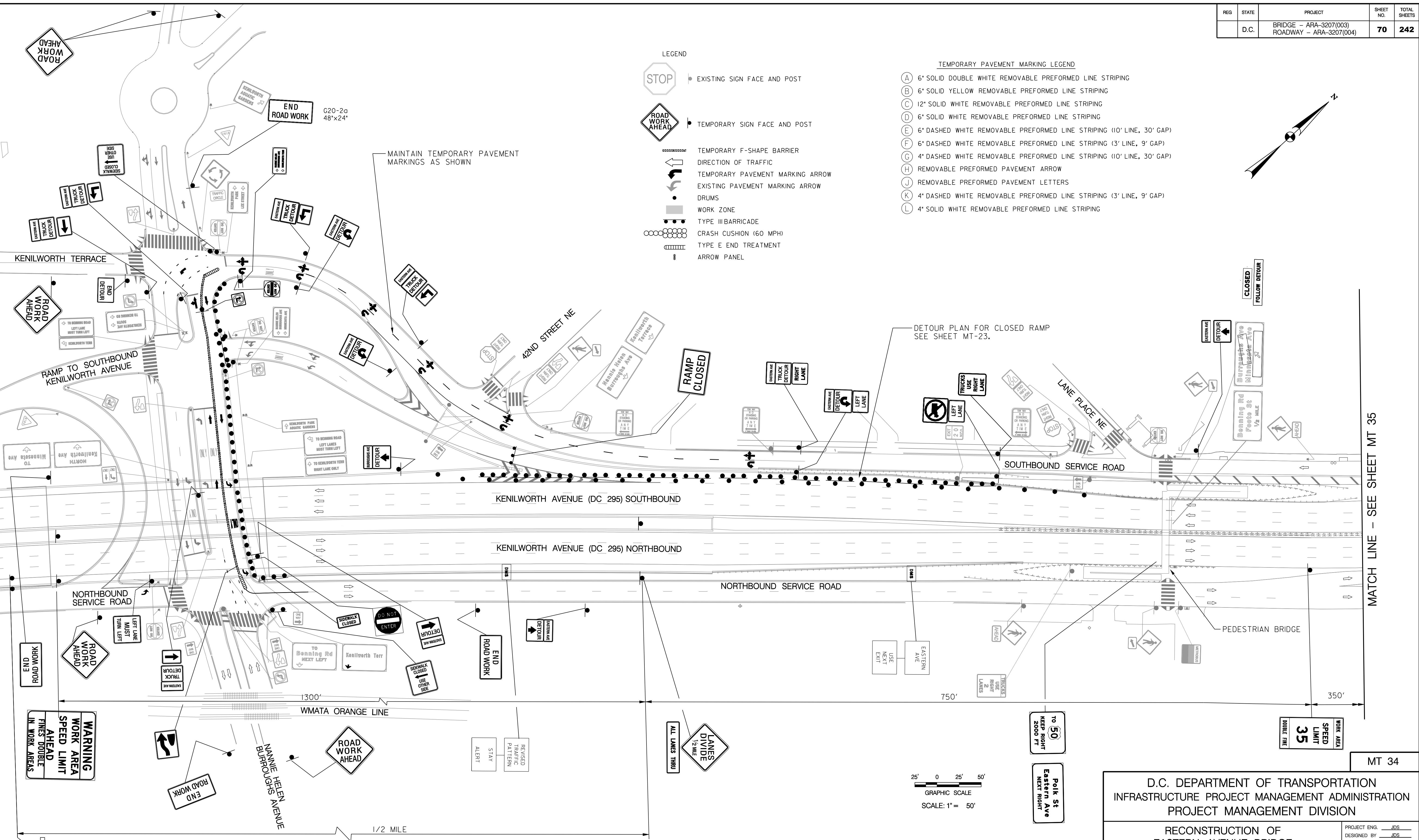
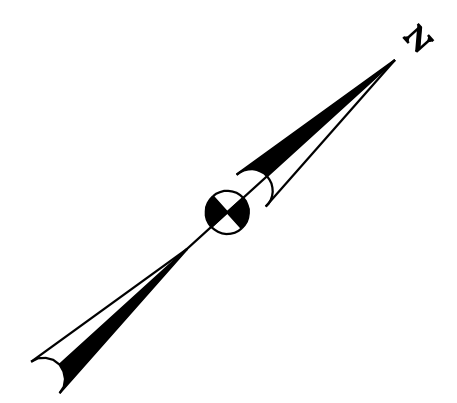
**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 2A**

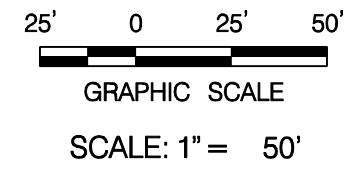
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STKSJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 35



TO 50
KEEP RIGHT
2000 FT

Polk St
Eastern Ave
NEXT RIGHT

WORK AREA
SPEED
LIMIT
35
MILE PER HOUR

MT 34

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 2B

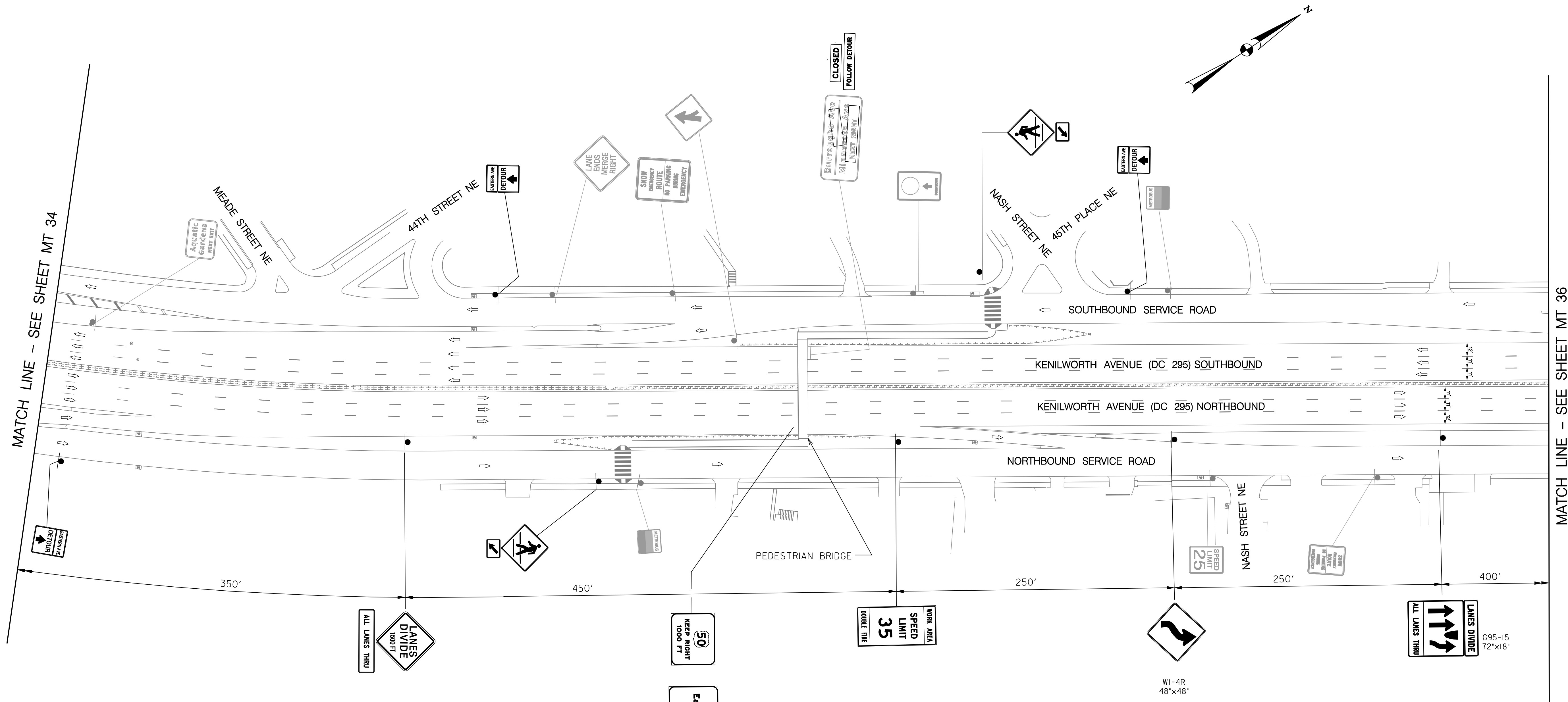
PROJECT ENG. _____ JDS
DESIGNED BY _____ JDS
CHECKED BY _____ JMC
DRAWN BY _____ STK/SIL
PROJECT MGR. _____ JDS
DIVISION CHIEF _____
DATE _____
FILE _____

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CONSULTING ENGINEERS

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PHONE: (301) 982-2800 FAX: (240) 542-3193
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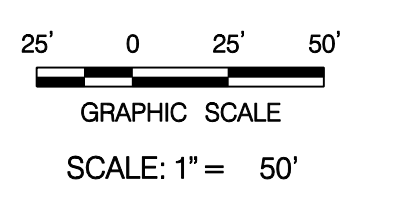
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 35

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 2B**

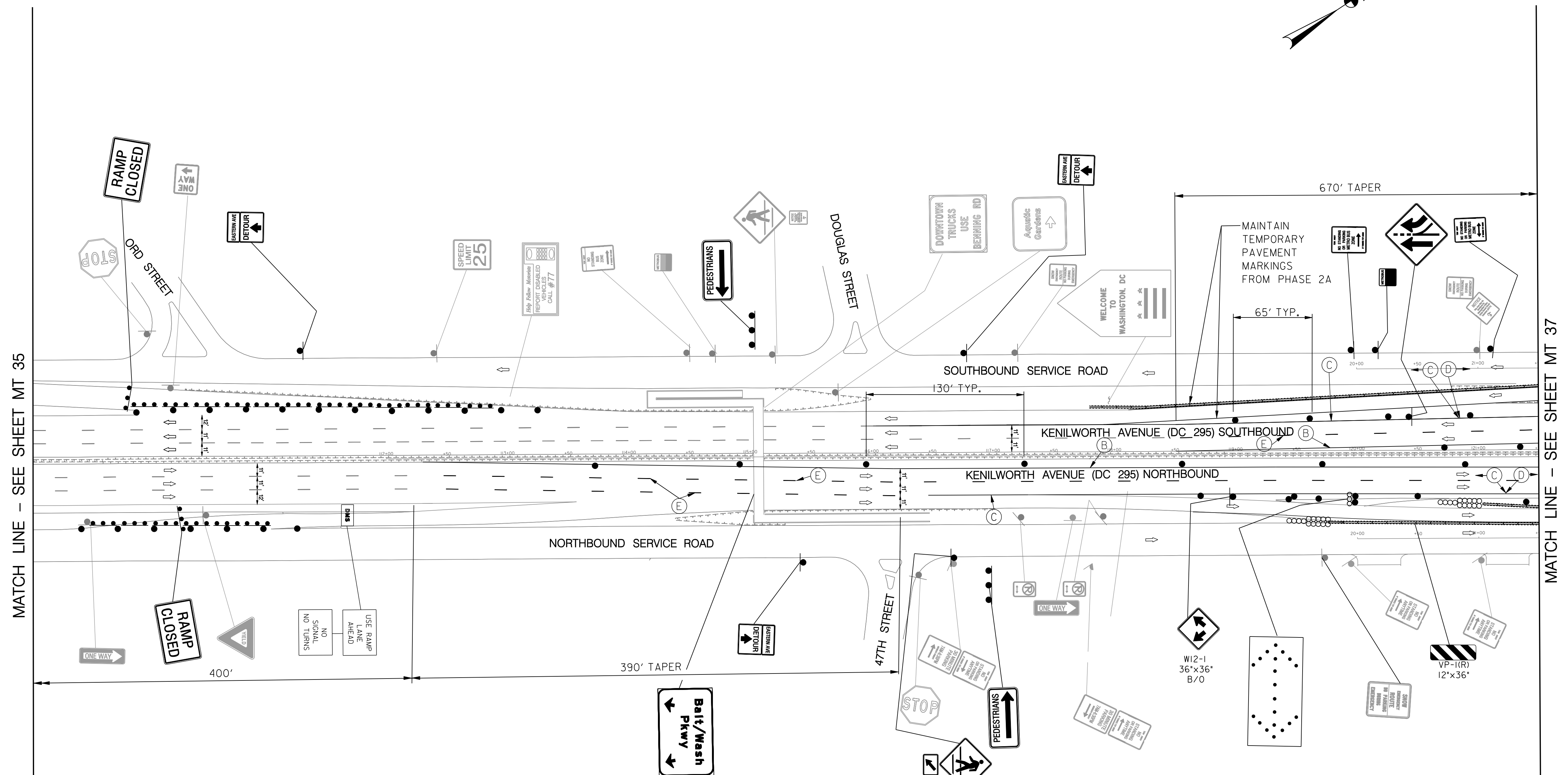
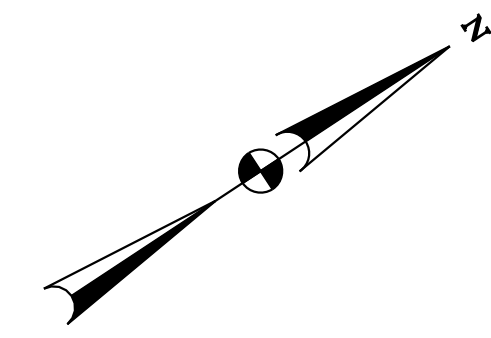
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STKSJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

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MATCH LINE - SEE SHEET MT 35

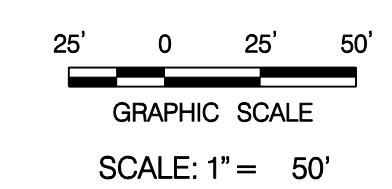
MATCH LINE - SEE SHEET MT 37

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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MT 36

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 2B**

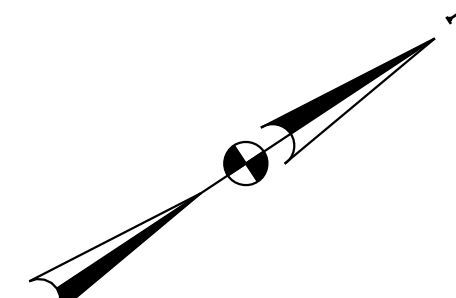
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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LEGEND

- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL

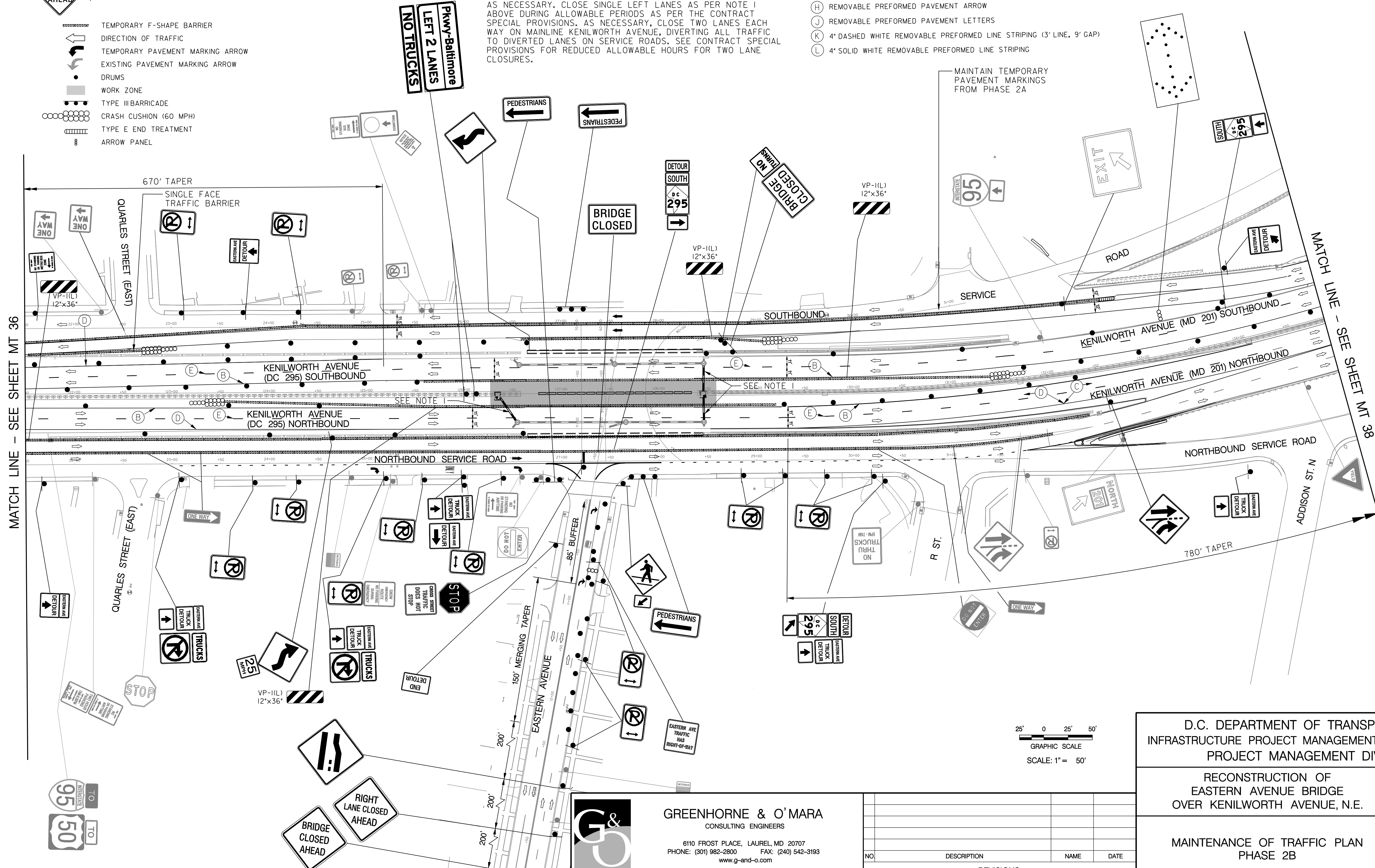


CONSTRUCTION NOTES:

- COMPLETE CONSTRUCTION OF NEW STORM DRAIN PIPES BY CLOSING THE INSIDE LANES DURING NIGHTTIME HOURS USING MDSHA STANDARD NO. MD 104.05-08, AND DDOT STANDARD DWG. NO. 616.17 (ADAPTED FOR A LEFT LANE CLOSURE). SEE CONTRACT SPECIAL PROVISIONS FOR HOURS OF ALLOWABLE LANE CLOSURES.
- FOR DELIVERY AND ERECTION OF PREFABRICATED BRIDGE PIER COMPONENTS, SET UP CRANES BY CLOSING LEFT LANE(S) AS NECESSARY. CLOSE SINGLE LEFT LANES AS PER NOTE 1 ABOVE DURING ALLOWABLE PERIODS AS PER THE CONTRACT SPECIAL PROVISIONS. AS NECESSARY, CLOSE TWO LANES EACH WAY ON MAINLINE KENILWORTH AVENUE, DIVERTING ALL TRAFFIC TO DIVERTED LANES ON SERVICE ROADS. SEE CONTRACT SPECIAL PROVISIONS FOR REDUCED ALLOWABLE HOURS FOR TWO LANE CLOSURES.

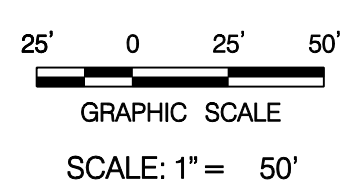
TEMPORARY PAVEMENT MARKING LEGEND

- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (H) REMOVABLE PREFORMED PAVEMENT ARROW
- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 36

MATCH LINE - SEE SHEET MT 38



MT 37

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 2B

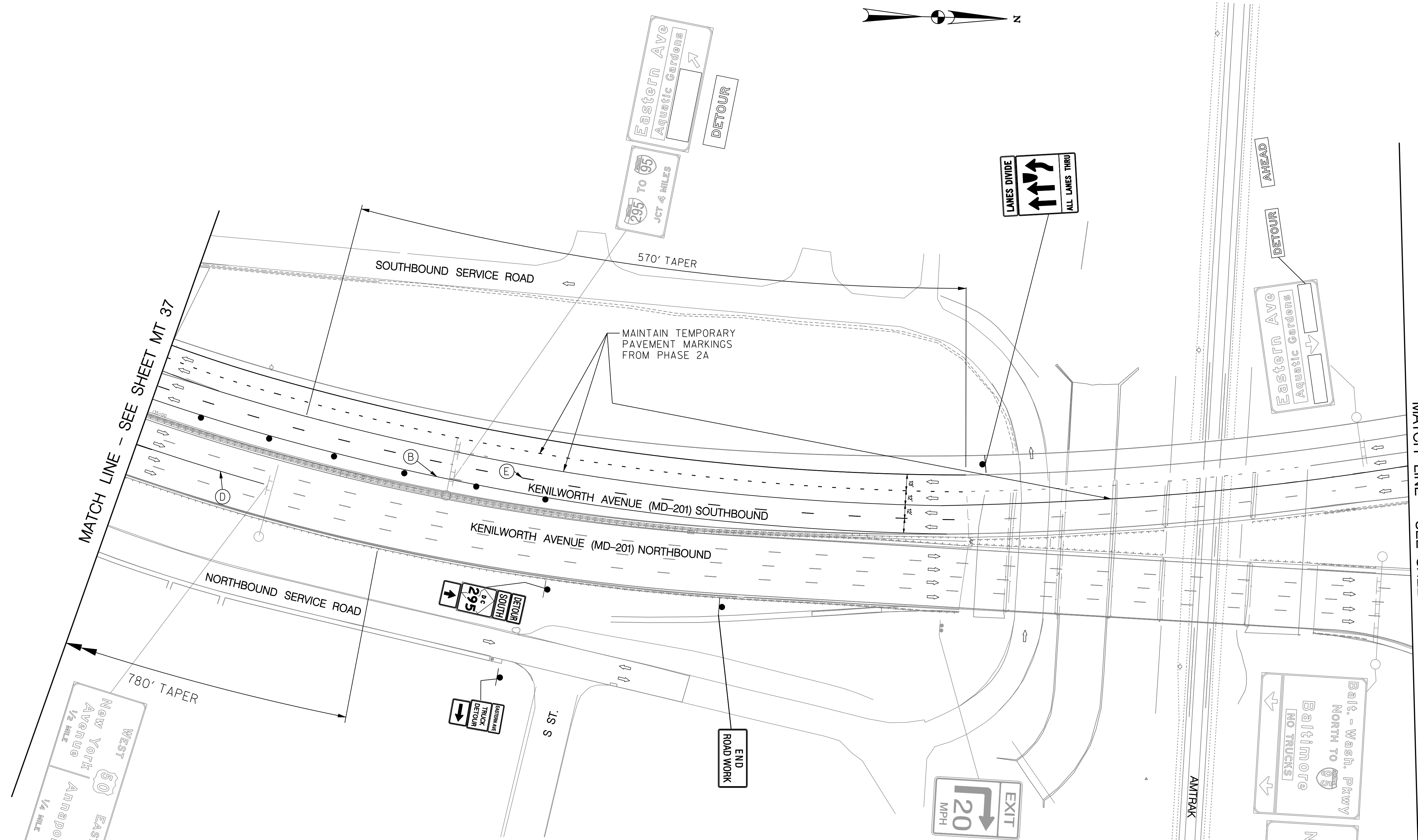
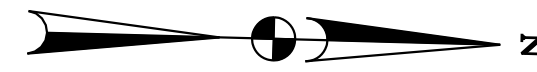
PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
DESIGNED BY <u>JMC</u>	DATE _____
CHECKED BY <u>JMC</u>	FILE _____
DRAWN BY <u>STK/SJL</u>	
PROJECT MGR. <u>JDS</u>	

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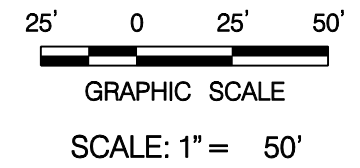
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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MT 38

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

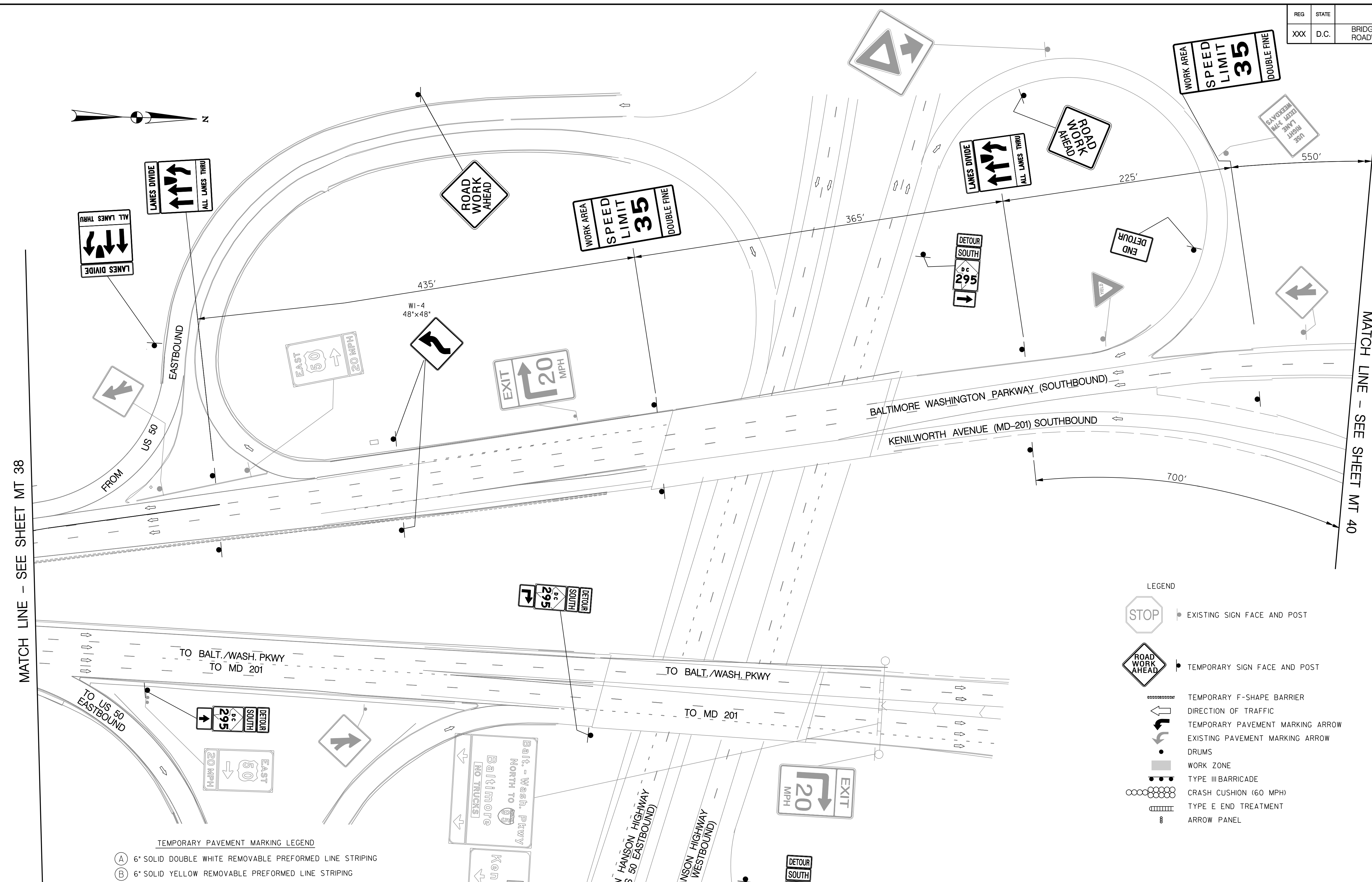
MAINTENANCE OF TRAFFIC PLAN
PHASE 2B

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
 CONSULTING ENGINEERS
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	75	242

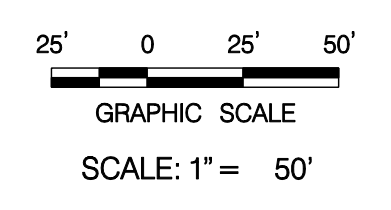


MATCH LINE - SEE SHEET MT 38

MATCH LINE - SEE SHEET MT 40

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 39

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 2B**

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

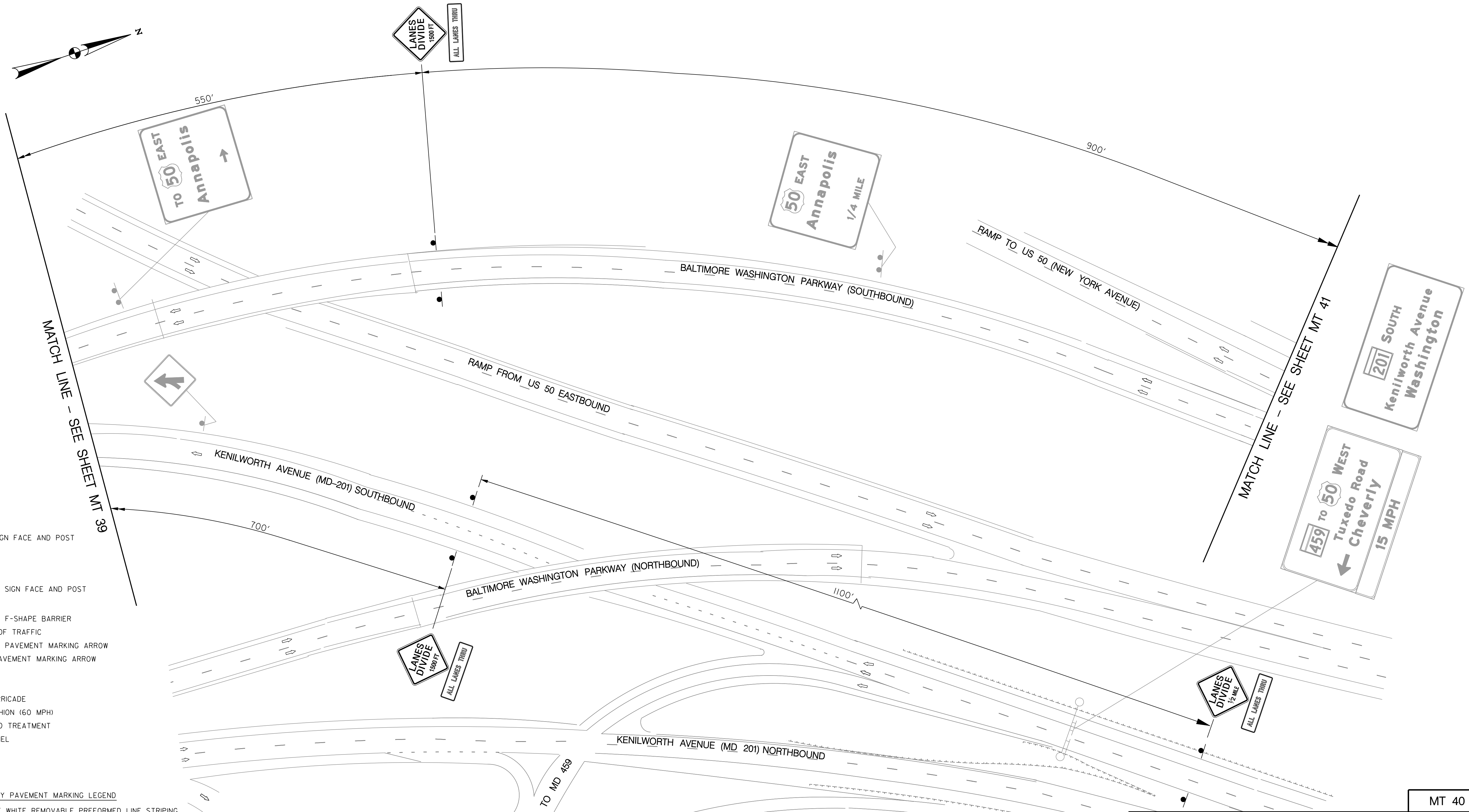
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CONSULTING ENGINEERS

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PHONE: (301) 982-2800 FAX: (240) 542-3193
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REVISIONS			

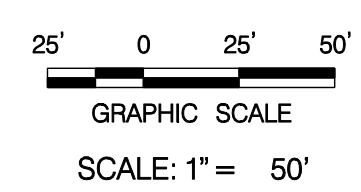
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	76	242



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

MT 40

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

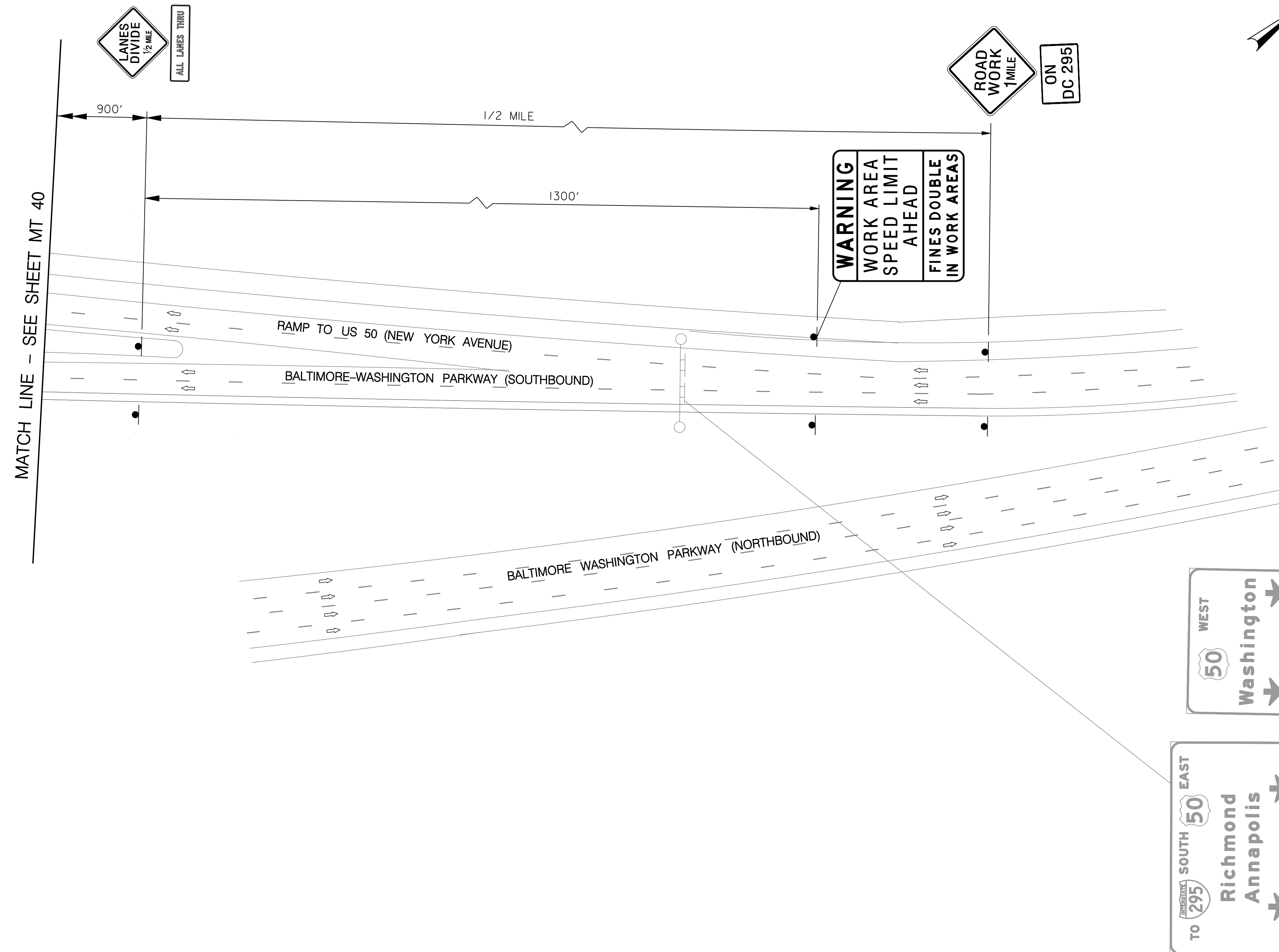
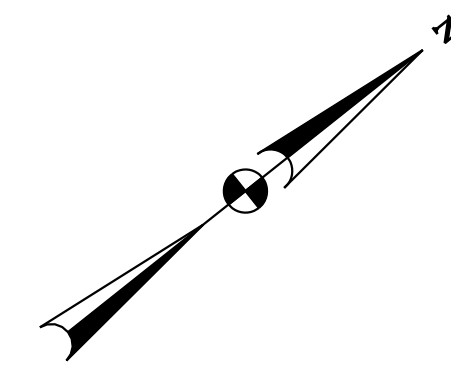
**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 2B**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STKSJL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

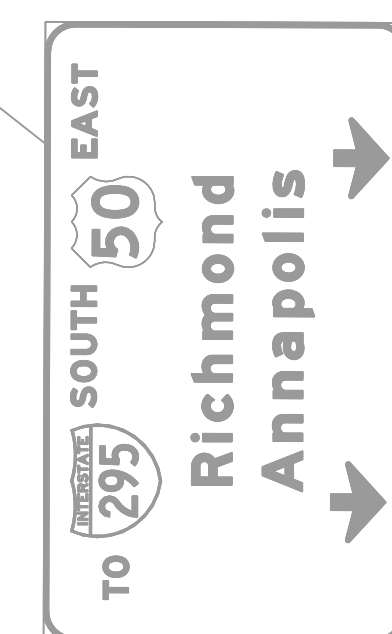
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	77	242



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 41

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 2B

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKS/IL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

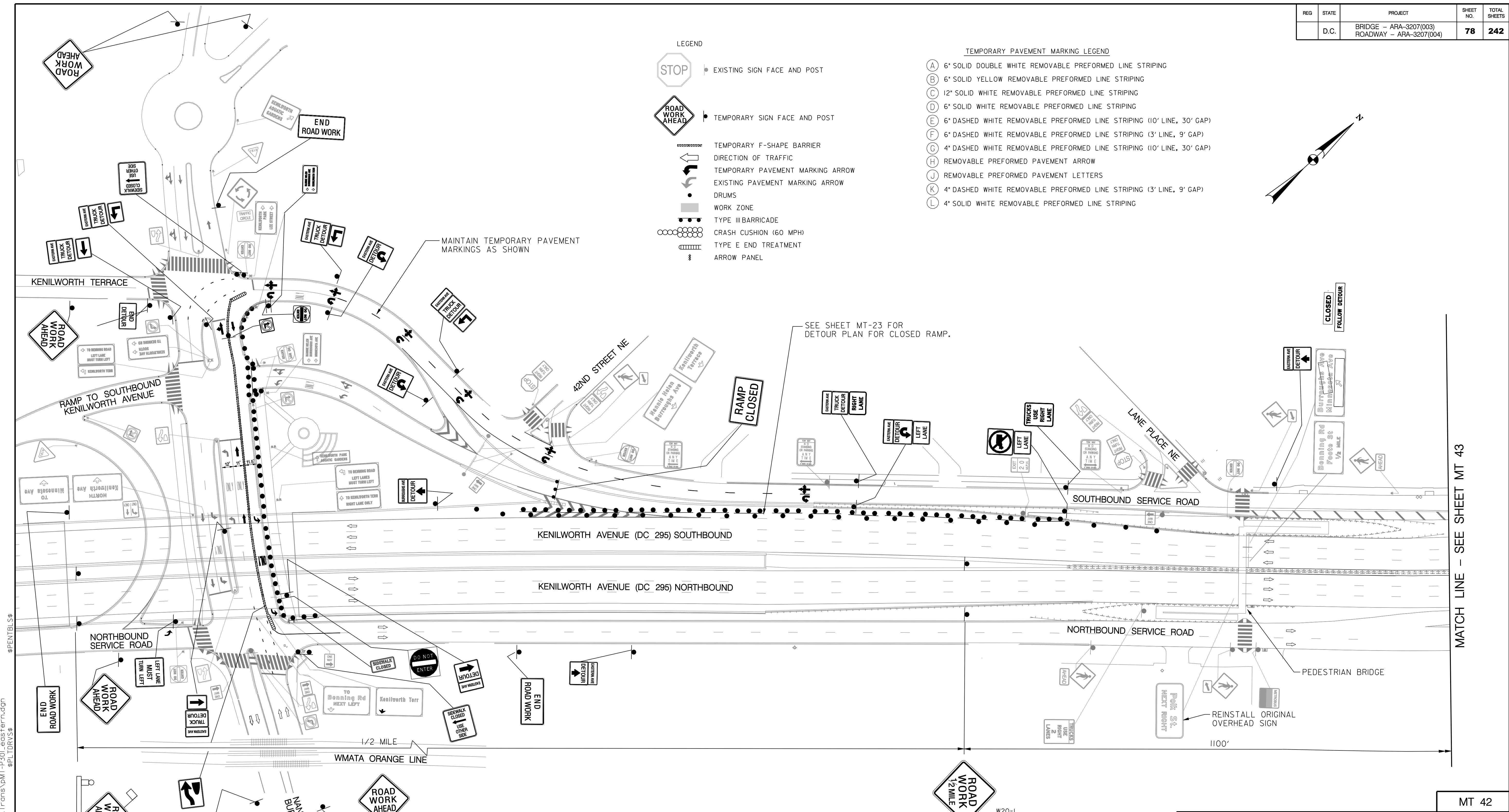
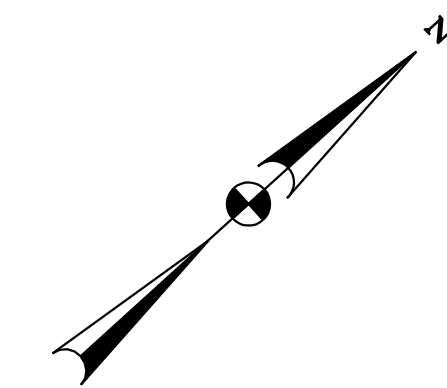
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LEGEND

- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL

TEMPORARY PAVEMENT MARKING LEGEND

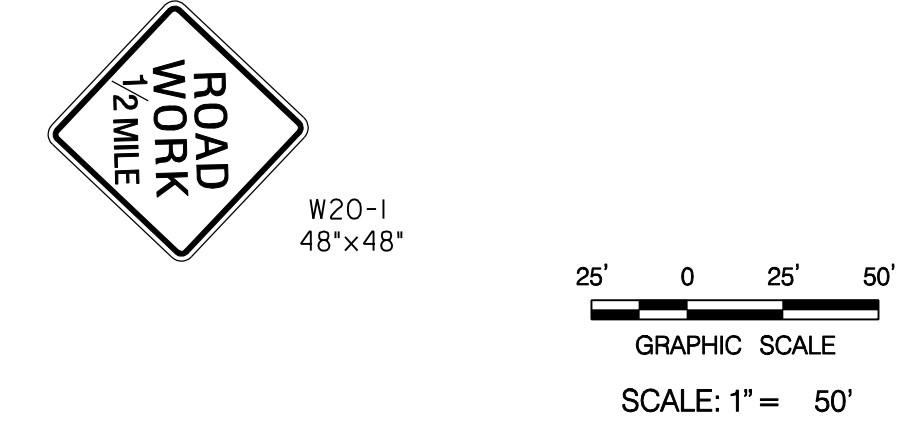
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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- (H) REMOVABLE PREFORMED PAVEMENT ARROW
- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 43

MT 42

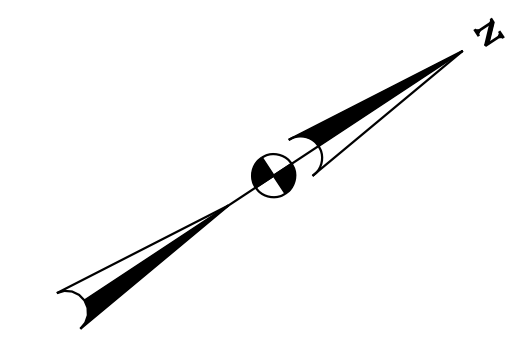
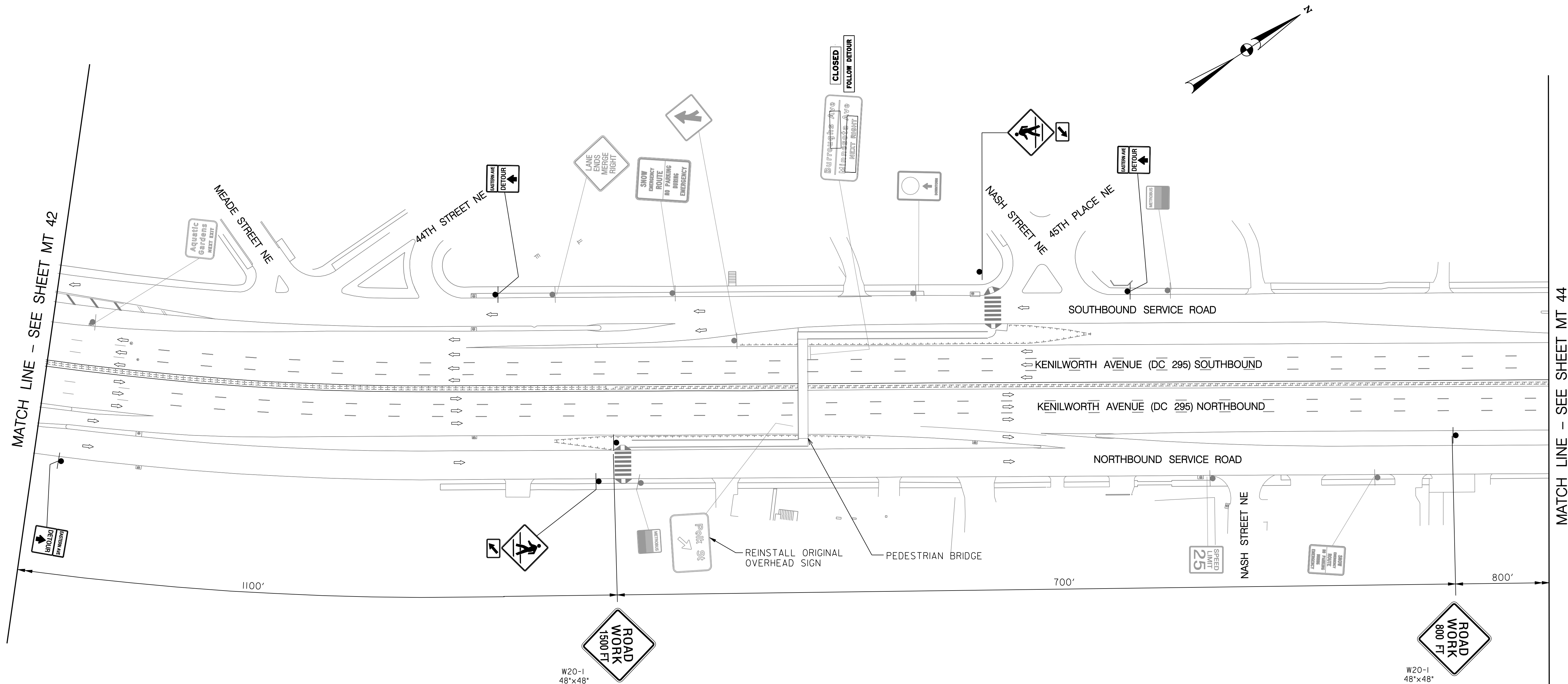
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<p>D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION</p>	
<p>RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.</p>	
<p>MAINTENANCE OF TRAFFIC PLAN PHASE 3</p>	
<p>PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STK/SIL</u> PROJECT MGR. <u>JDS</u></p>	<p>DIVISION CHIEF DATE _____ FILE _____</p>

	<p>GREENHORNE & O'MARA CONSULTING ENGINEERS</p>
	<p>6110 FROST PLACE, LAUREL, MD 20707 PHONE: (301) 982-2800 FAX: (240) 542-3193 www.g-and-o.com</p>

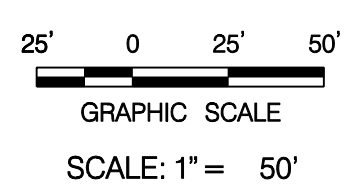
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- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 43

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 3

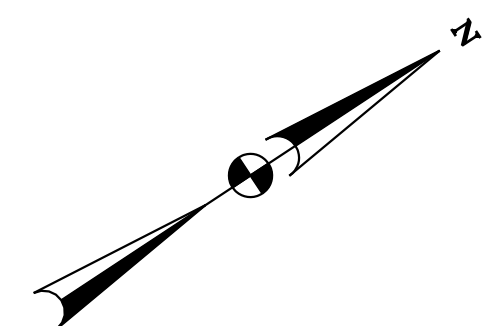
PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STKSJL</u> PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	
FILE _____	



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 CONSULTING ENGINEERS
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

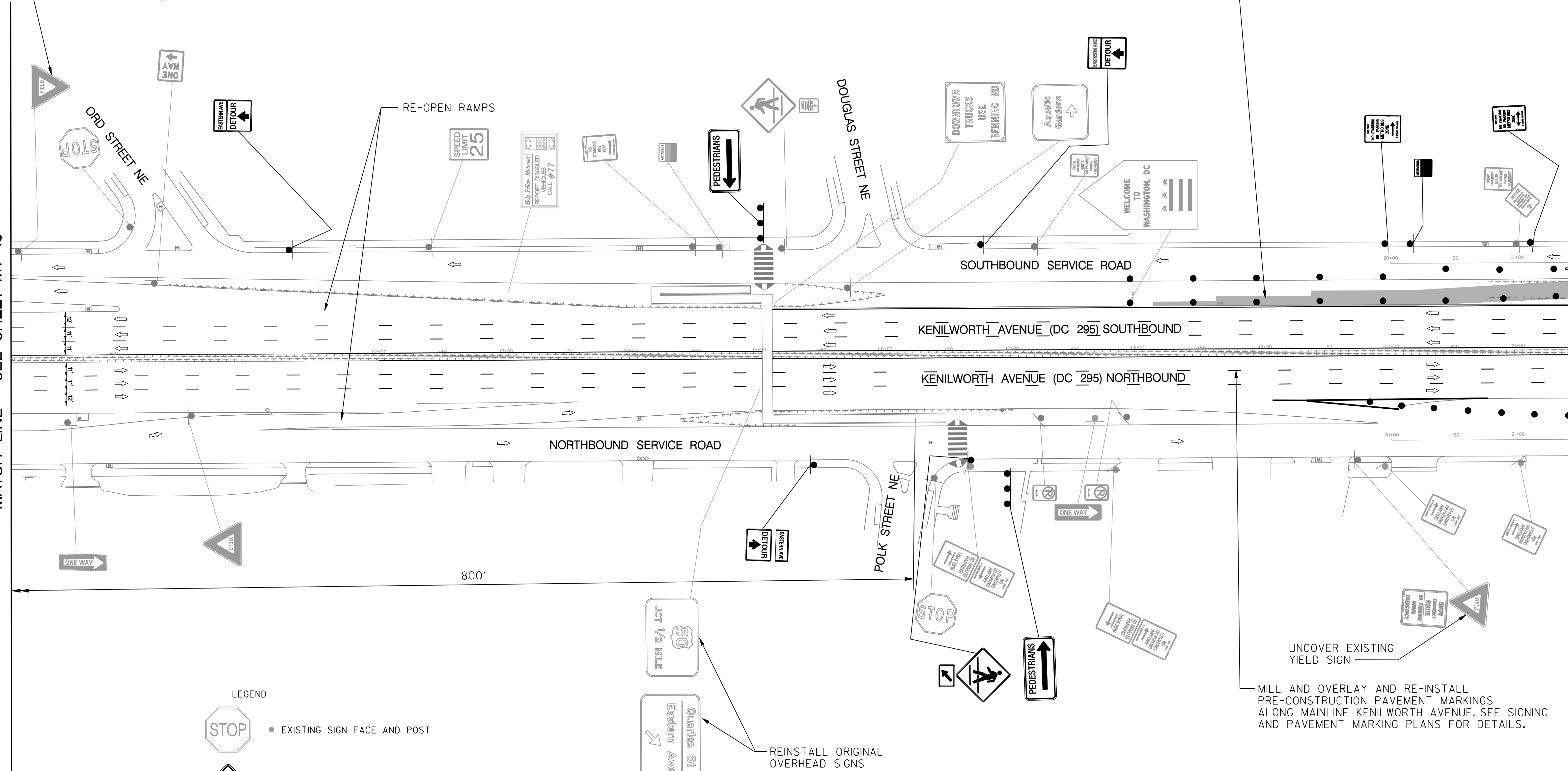


UNCOVER EXISTING SIGN

TIE-IN FOR RAMP TO MAINLINE KENILWORTH AVENUE TO BE REMOVED UNDER RIGHT LANE CLOSURE DURING NIGHTTIME HOURS ONLY

MATCH LINE - SEE SHEET MT 43

MATCH LINE - SEE SHEET MT 45



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

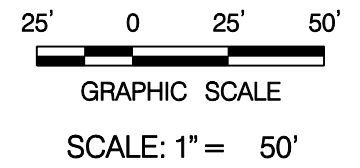
REINSTALL ORIGINAL OVERHEAD SIGNS

JCT 1/2 MILE

Quarles St
Eastern Ave

UNCOVER EXISTING YIELD SIGN

MILL AND OVERLAY AND RE-INSTALL PRE-CONSTRUCTION PAVEMENT MARKINGS ALONG MAINLINE KENILWORTH AVENUE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR DETAILS.



MT 44

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 3

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SJL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
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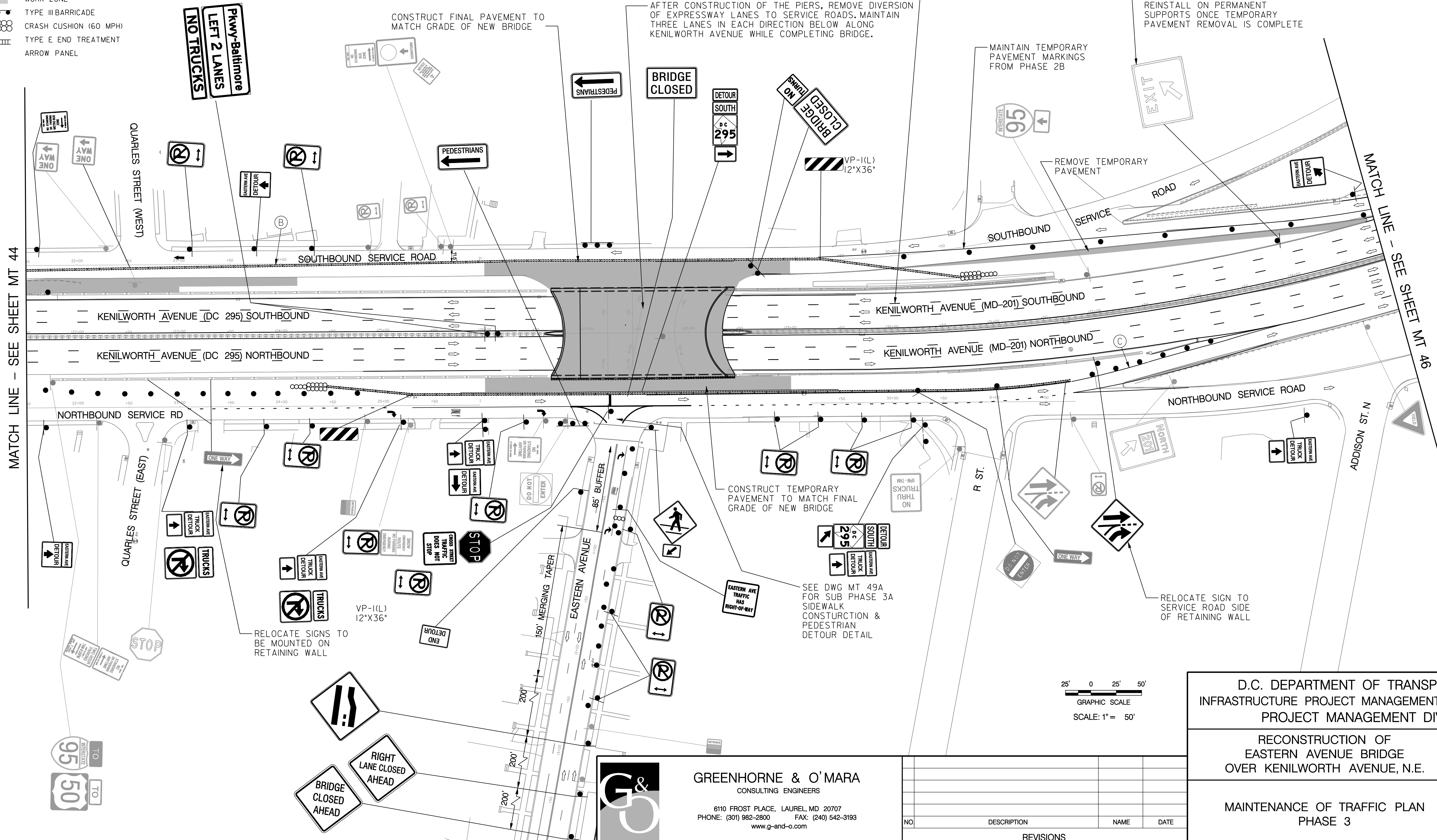
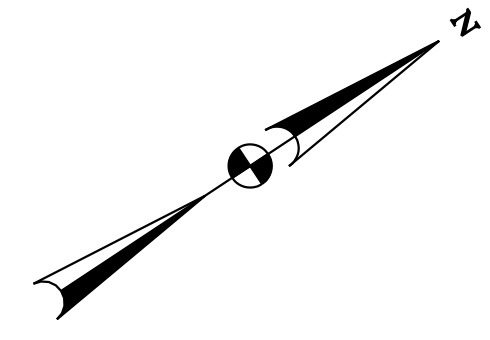
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

LEGEND

- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL

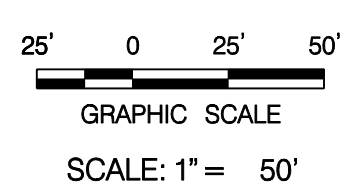
TEMPORARY PAVEMENT MARKING LEGEND

- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (H) REMOVABLE PREFORMED PAVEMENT ARROW
- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 44

MATCH LINE - SEE SHEET MT 46



MT 45

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 3

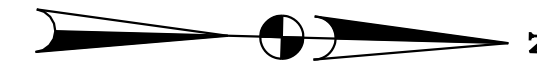
PROJECT ENG.	JDS
DESIGNED BY	JMC
CHECKED BY	STK/SIL
DRAWN BY	JDS
PROJECT MGR.	JDS
DIVISION CHIEF	
DATE	
FILE	

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

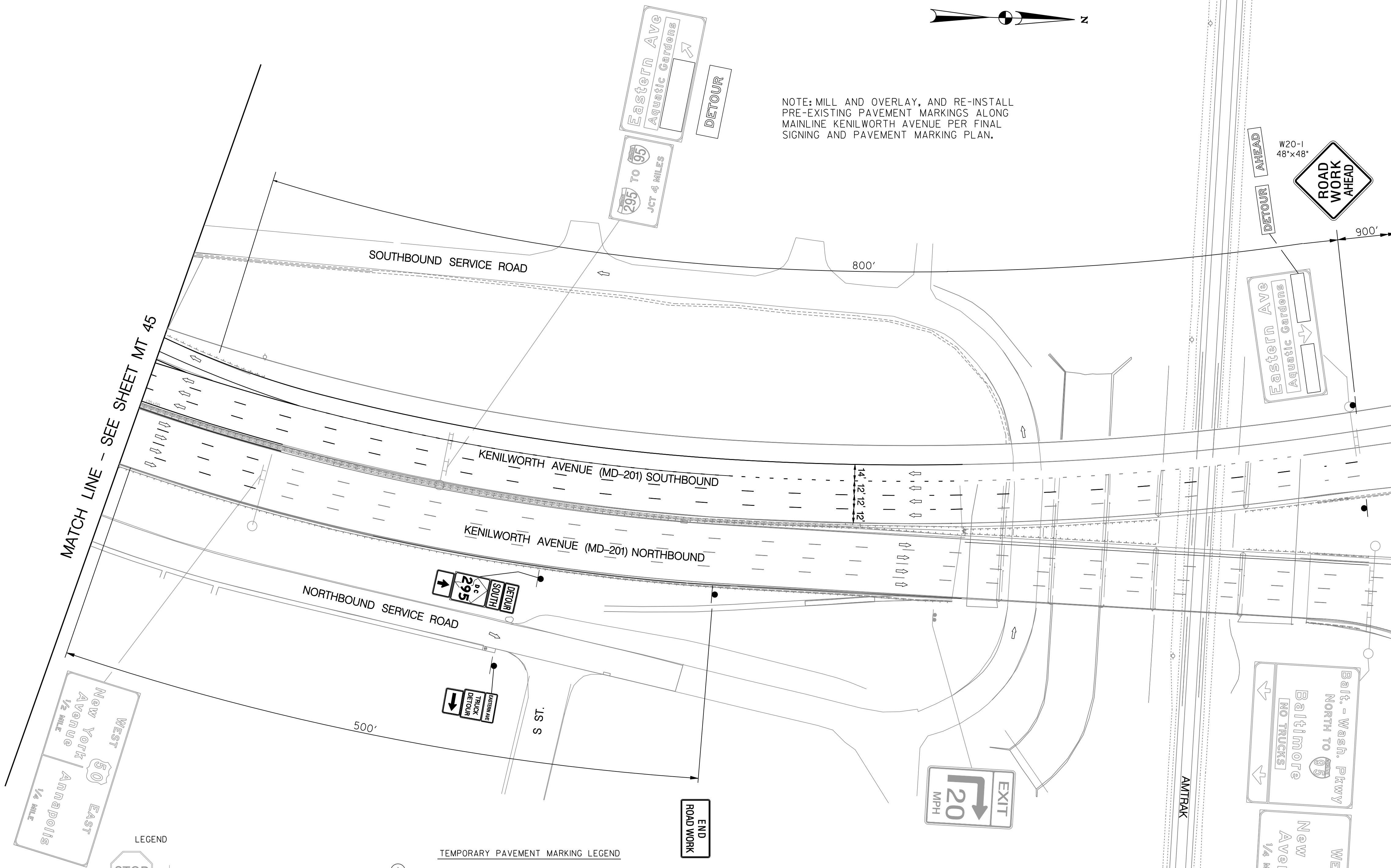
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NOTE: MILL AND OVERLAY, AND RE-INSTALL PRE-EXISTING PAVEMENT MARKINGS ALONG MAINLINE KENILWORTH AVENUE PER FINAL SIGNING AND PAVEMENT MARKING PLAN.

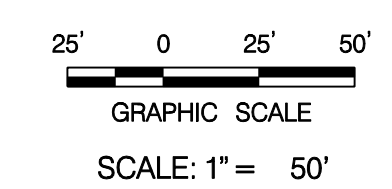
MATCH LINE - SEE SHEET MT 45

MATCH LINE - SEE SHEET MT 47



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 46

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 3

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS
DIVISION CHIEF
DATE
FILE



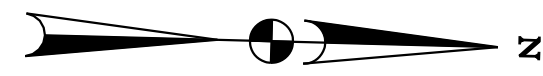
GREENHORNE & O'MARA
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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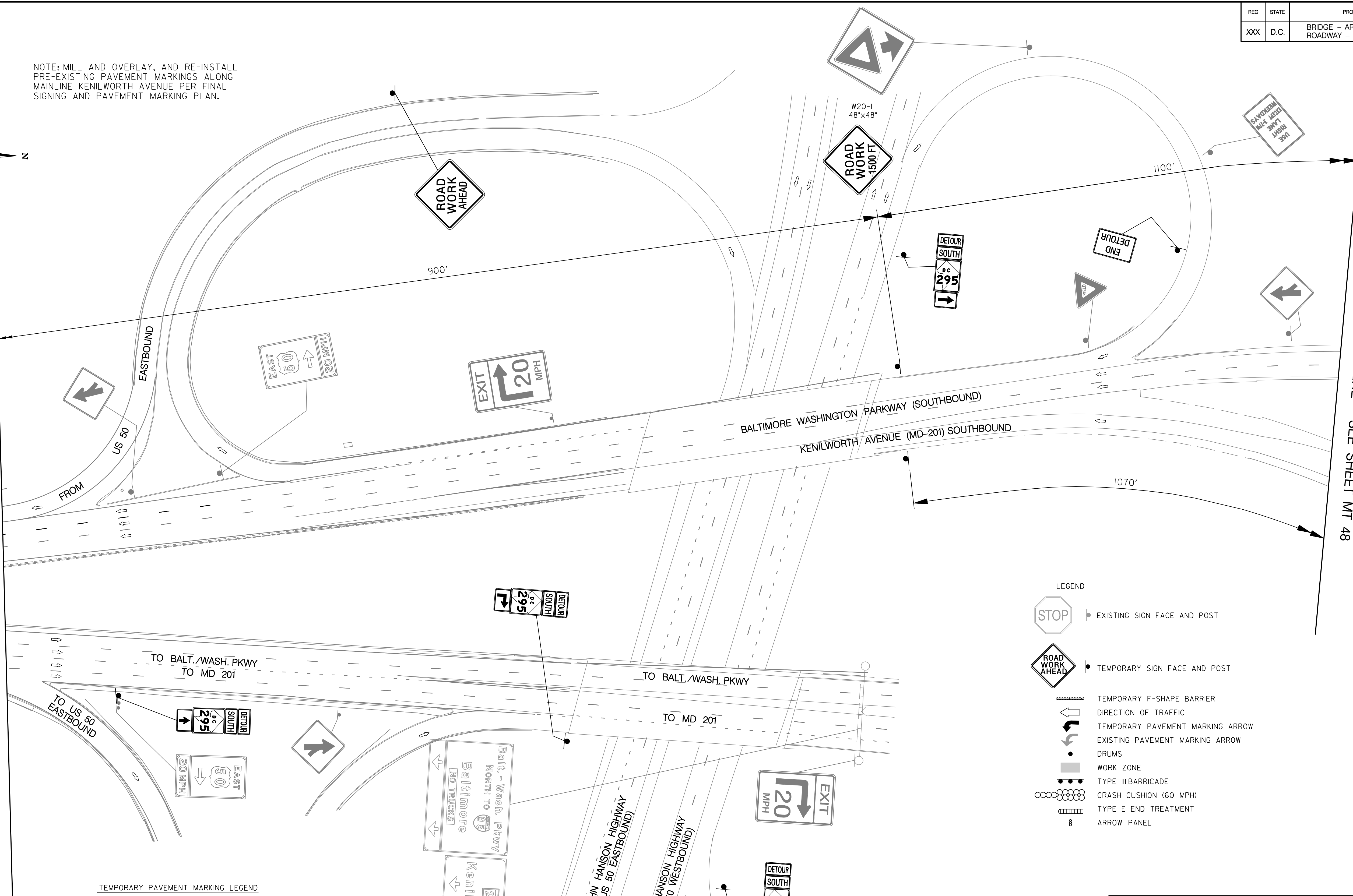
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	83	242

NOTE: MILL AND OVERLAY, AND RE-INSTALL PRE-EXISTING PAVEMENT MARKINGS ALONG MAINLINE KENILWORTH AVENUE PER FINAL SIGNING AND PAVEMENT MARKING PLAN.



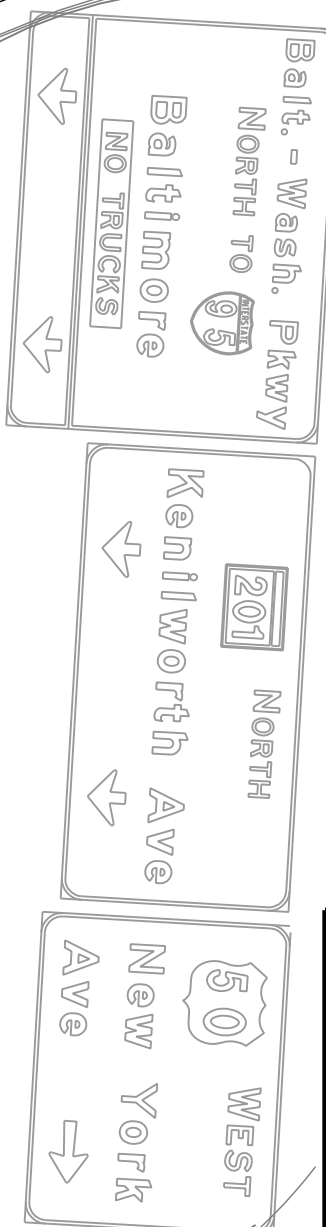
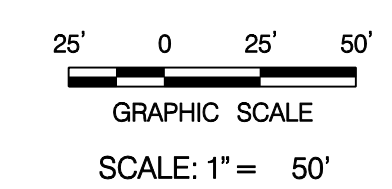
MATCH LINE - SEE SHEET MT 46

MATCH LINE - SEE SHEET MT 48



- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

MT 47

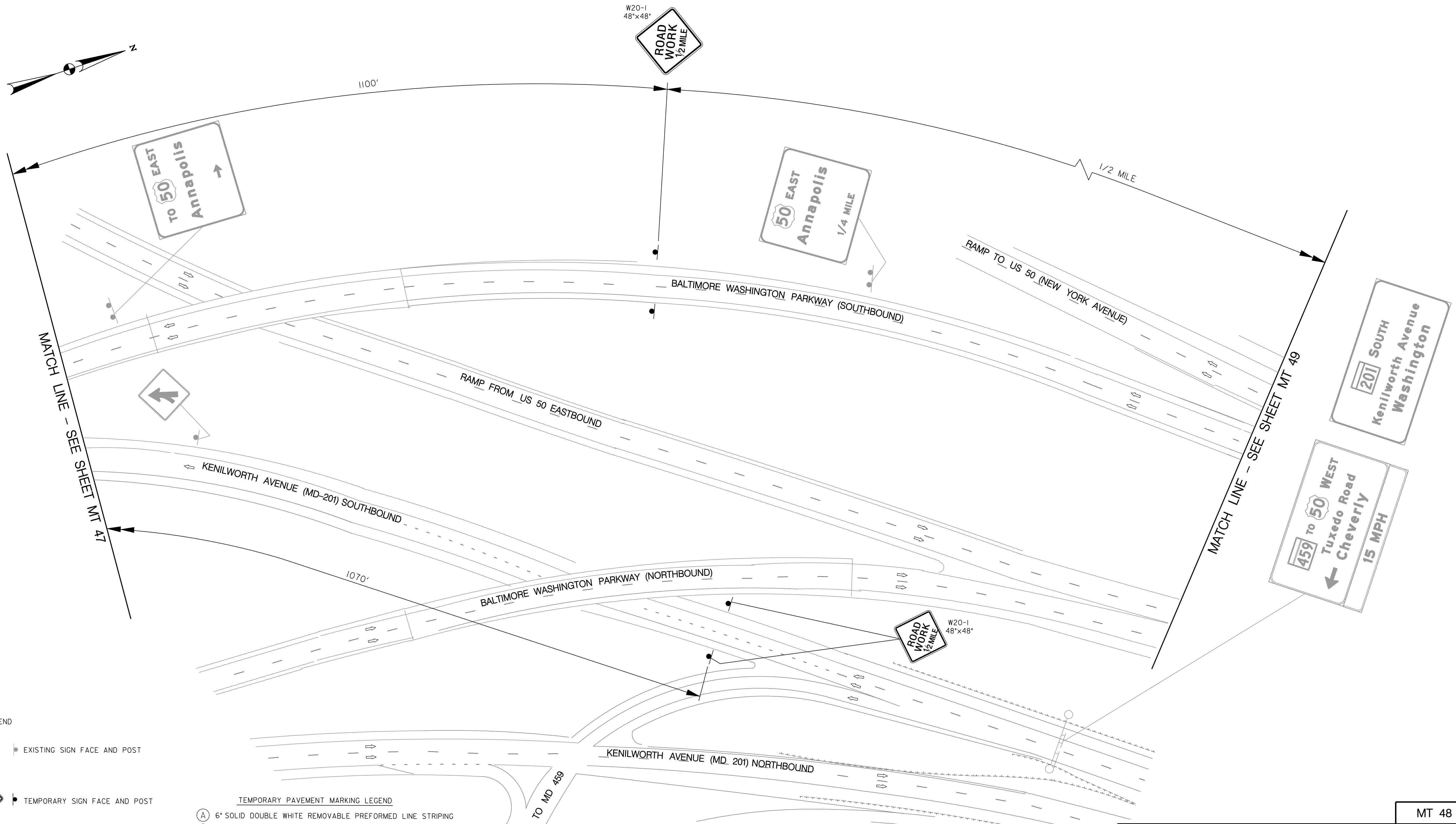
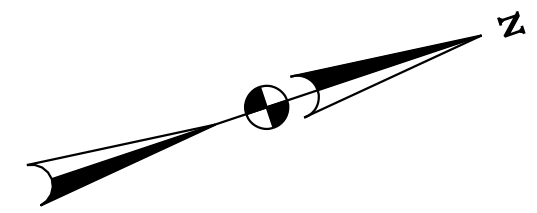
**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 3**

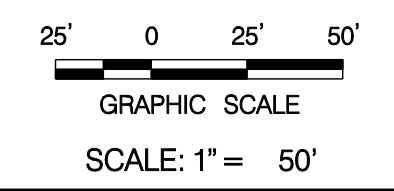
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

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- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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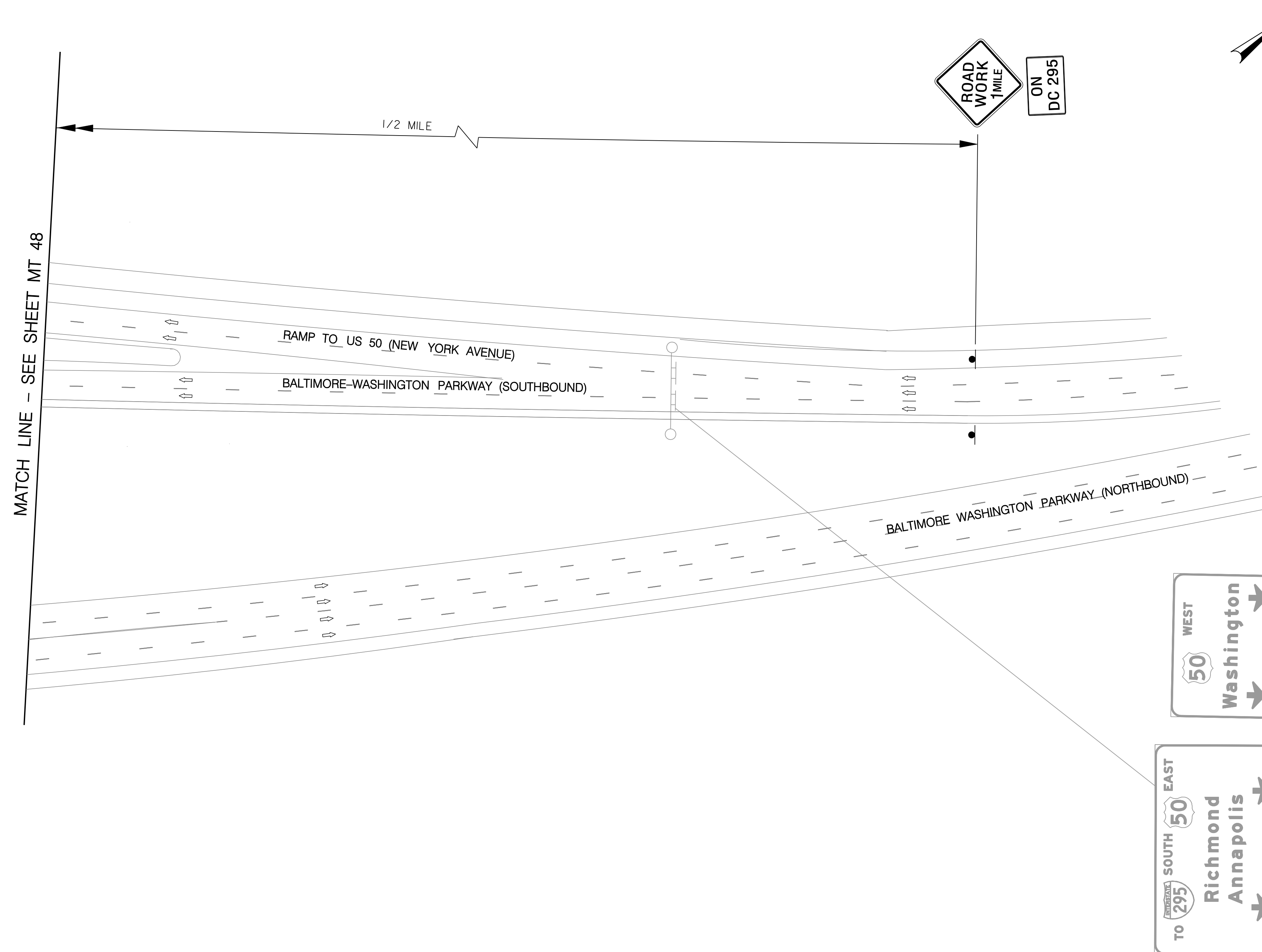
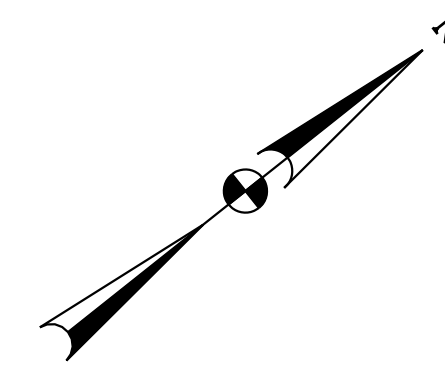


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

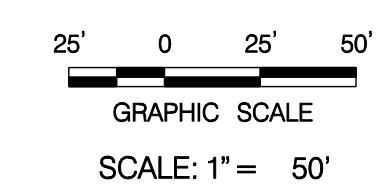
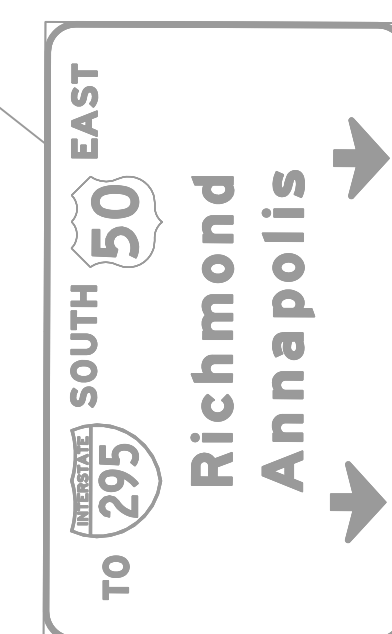
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		MT 48
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.		PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STK/SIL</u> PROJECT MGR. <u>JDS</u>
MAINTENANCE OF TRAFFIC PLAN PHASE 3		DIVISION CHIEF DATE _____ FILE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	85	242



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 49

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 3

PROJECT ENG. <u> </u> JDS	DESIGNED BY <u> </u> JDS
CHECKED BY <u> </u> JMC	DRAWN BY <u> </u> STK/SIL
PROJECT MGR. <u> </u> JDS	
DIVISION CHIEF	
DATE <u> </u>	
FILE <u> </u>	

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CONSULTING ENGINEERS

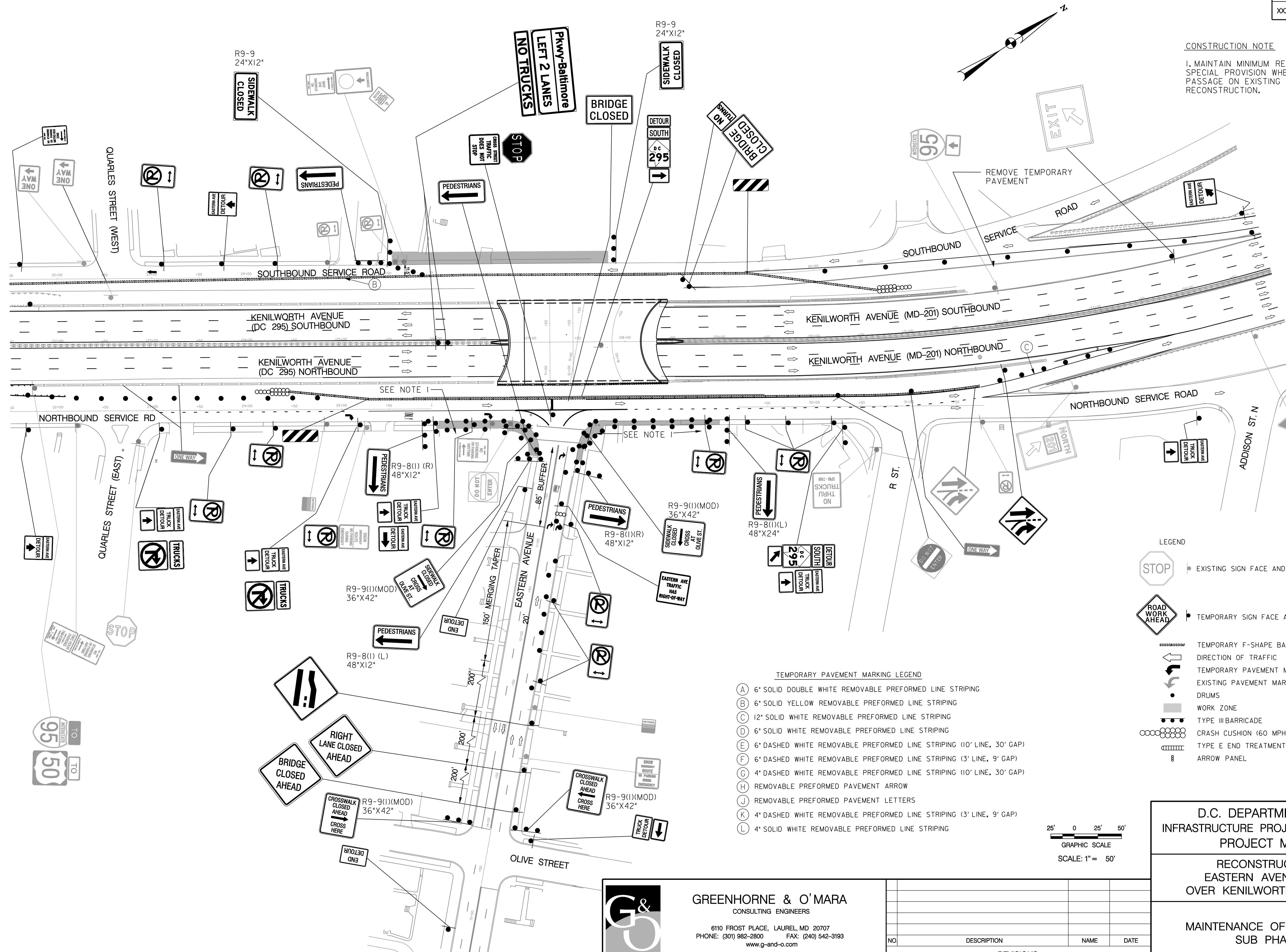
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

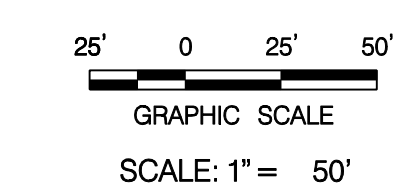
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 \$PLTDRVS\$

CONSTRUCTION NOTE

1. MAINTAIN MINIMUM REQUIRED WIDTH AS PER CONTRACT SPECIAL PROVISION WHERE NOTED FOR PEDESTRIAN PASSAGE ON EXISTING SIDEWALK ADJACENT TO SIDEWALK RECONSTRUCTION.



- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 49A

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
SUB PHASE 3A

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKSJL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

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CONSULTING ENGINEERS

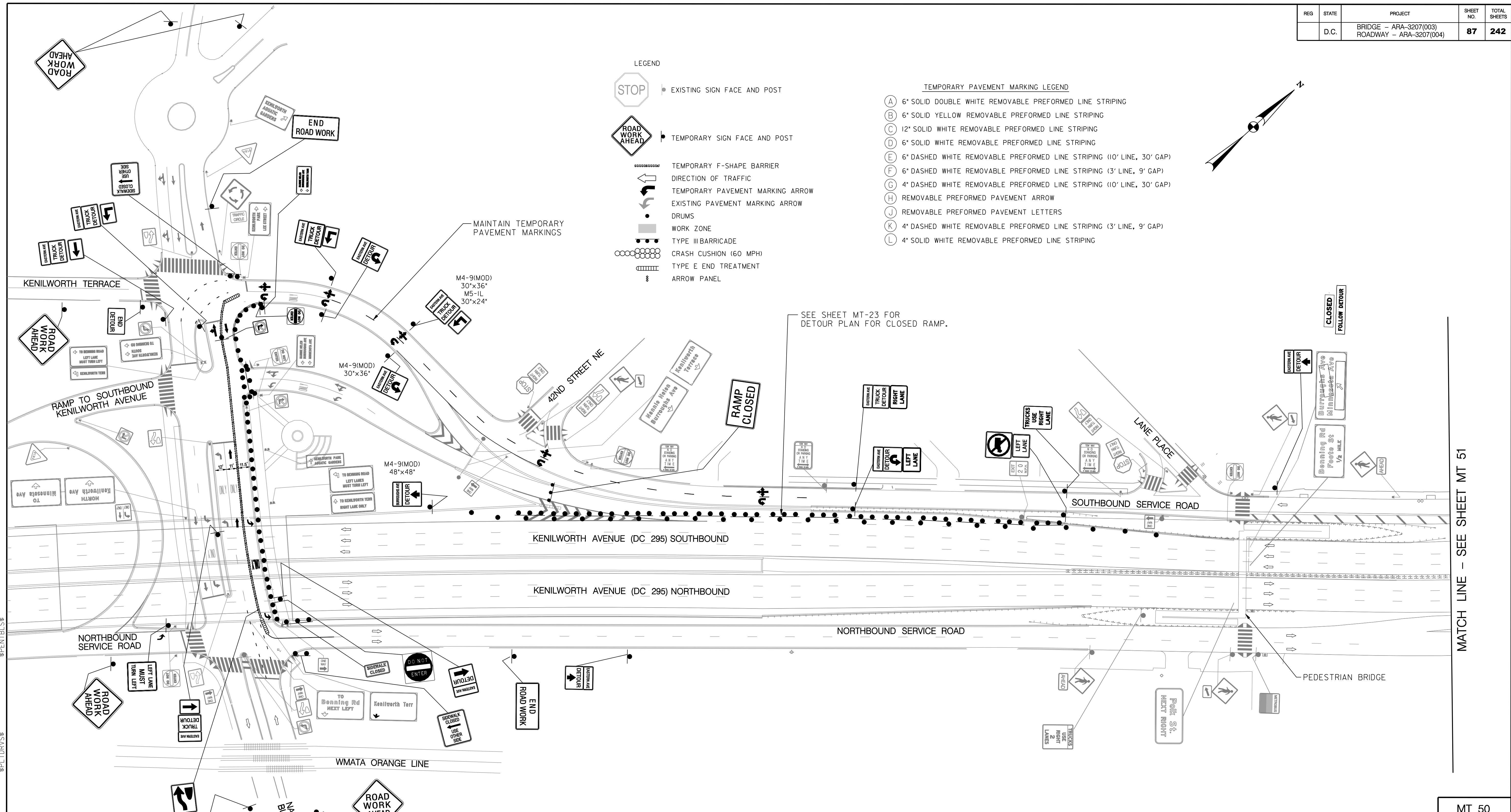
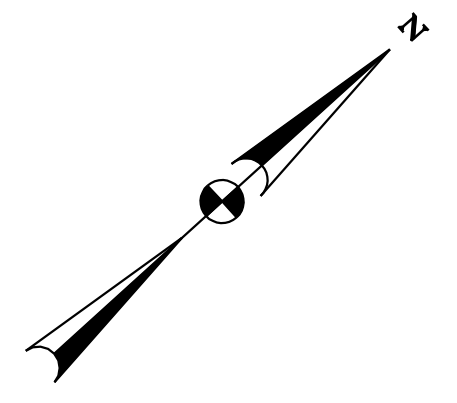
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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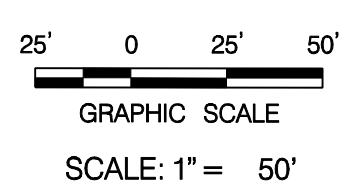
- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 51

MT 50



D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

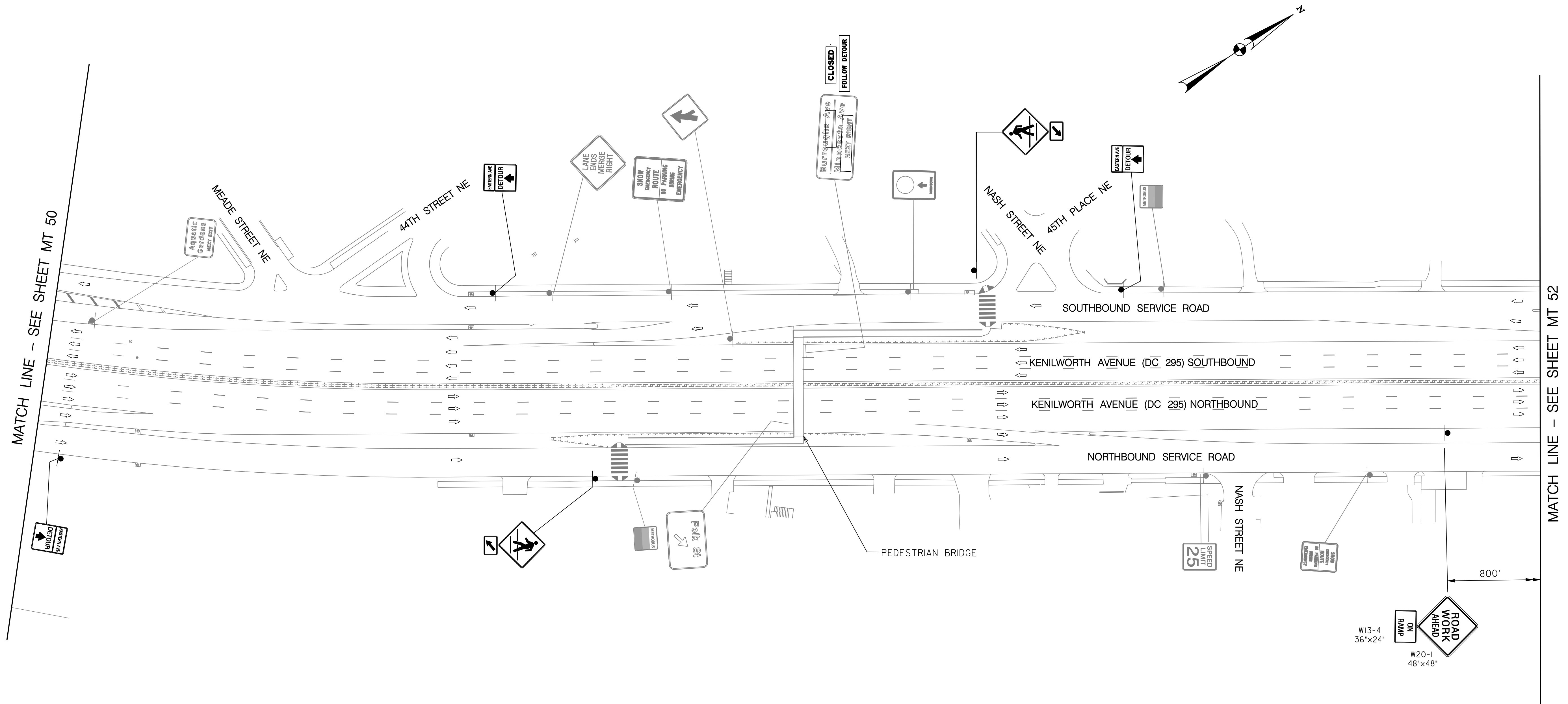
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STKSJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

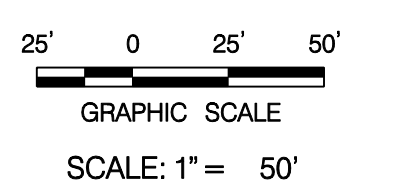
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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Thurs 04/23/2009 11:04 AM SPL DRS



- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 52

MATCH LINE - SEE SHEET MT 50

MT 51

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

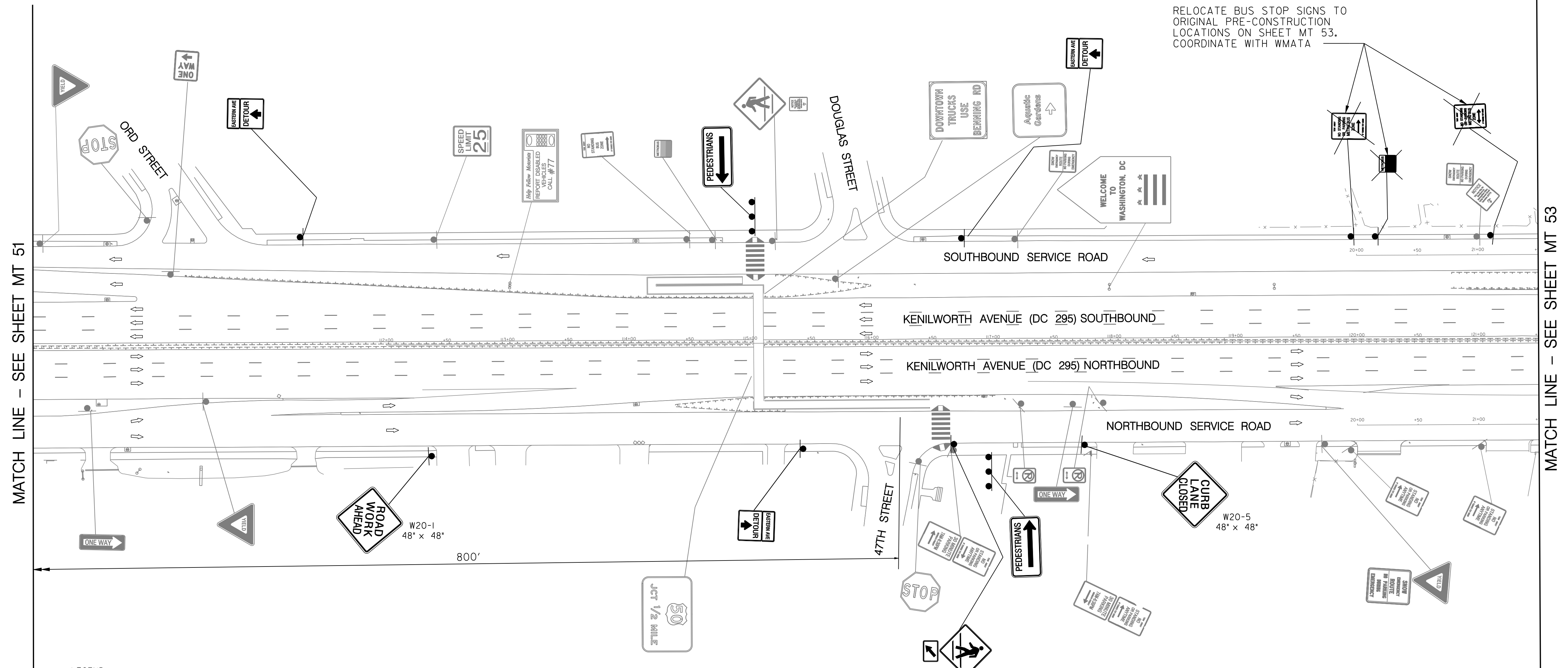
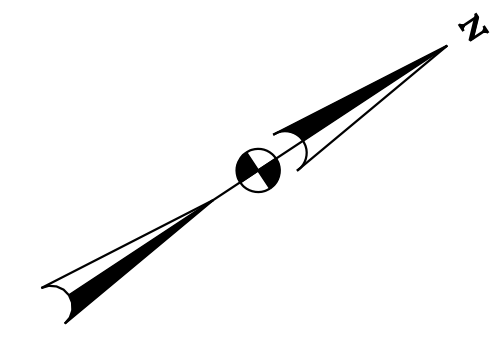


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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 Tue 03/23/2009 10:08:19 AM
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 \$PLTDRV\$\$



MATCH LINE - SEE SHEET MT 51

MATCH LINE - SEE SHEET MT 53

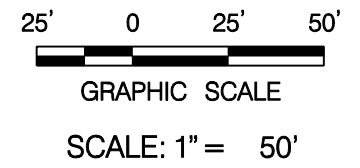
RELOCATE BUS STOP SIGNS TO ORIGINAL PRE-CONSTRUCTION LOCATIONS ON SHEET MT 53. COORDINATE WITH WMATA

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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MT 52

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

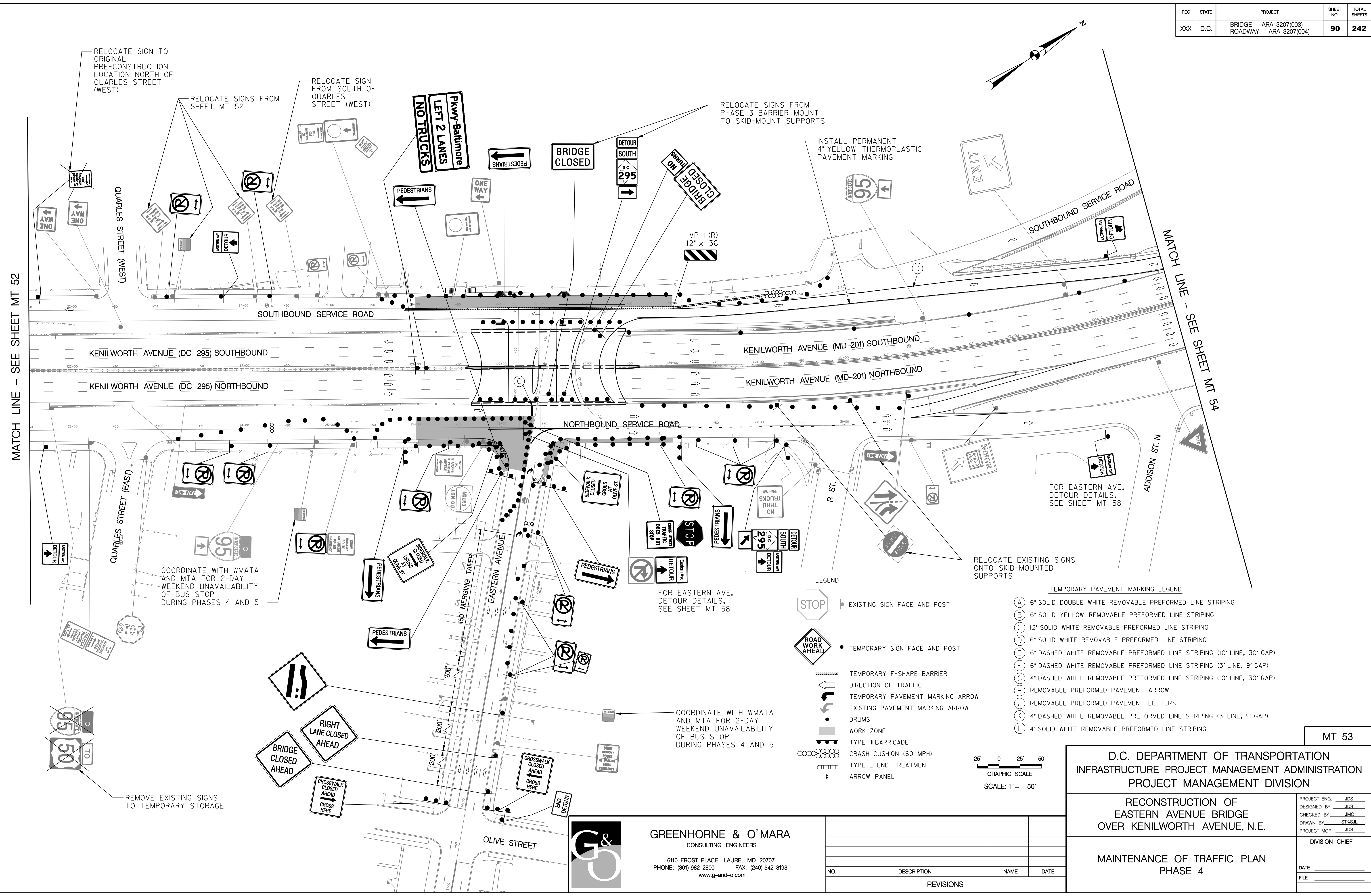
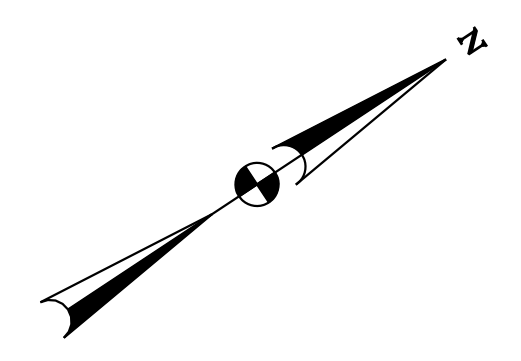
**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SJL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



MATCH LINE - SEE SHEET MT 52

MATCH LINE - SEE SHEET MT 54

RELOCATE SIGN TO ORIGINAL PRE-CONSTRUCTION LOCATION NORTH OF QUARLES STREET (WEST)

RELOCATE SIGNS FROM SOUTH OF QUARLES STREET (WEST)

RELOCATE SIGNS FROM PHASE 3 BARRIER MOUNT TO SKID-MOUNT SUPPORTS

INSTALL PERMANENT 4" YELLOW THERMOPLASTIC PAVEMENT MARKING

COORDINATE WITH WMATA AND MTA FOR 2-DAY WEEKEND UNAVAILABILITY OF BUS STOP DURING PHASES 4 AND 5

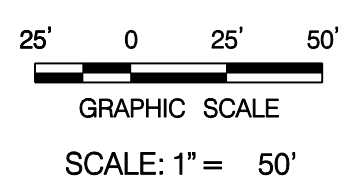
FOR EASTERN AVE. DETOUR DETAILS, SEE SHEET MT 58

FOR EASTERN AVE. DETOUR DETAILS, SEE SHEET MT 58

COORDINATE WITH WMATA AND MTA FOR 2-DAY WEEKEND UNAVAILABILITY OF BUS STOP DURING PHASES 4 AND 5

REMOVE EXISTING SIGNS TO TEMPORARY STORAGE

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL
- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 53

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

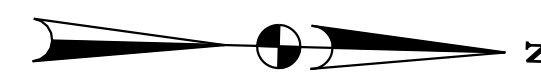
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
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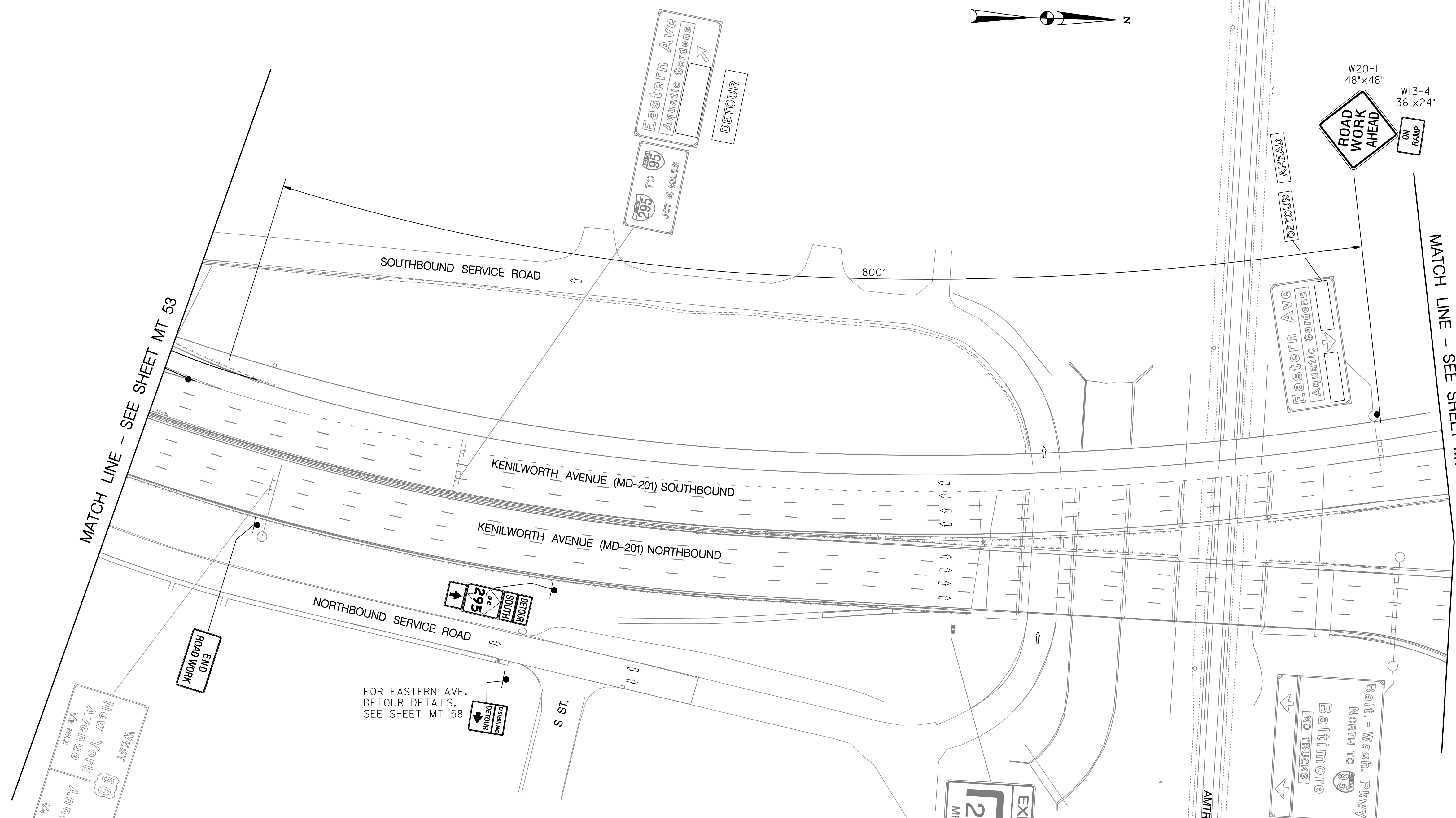
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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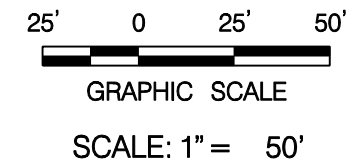
MATCH LINE - SEE SHEET MT 53

MATCH LINE - SEE SHEET MT 55



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 54

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

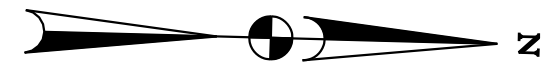
GREENHORNE & O'MARA
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

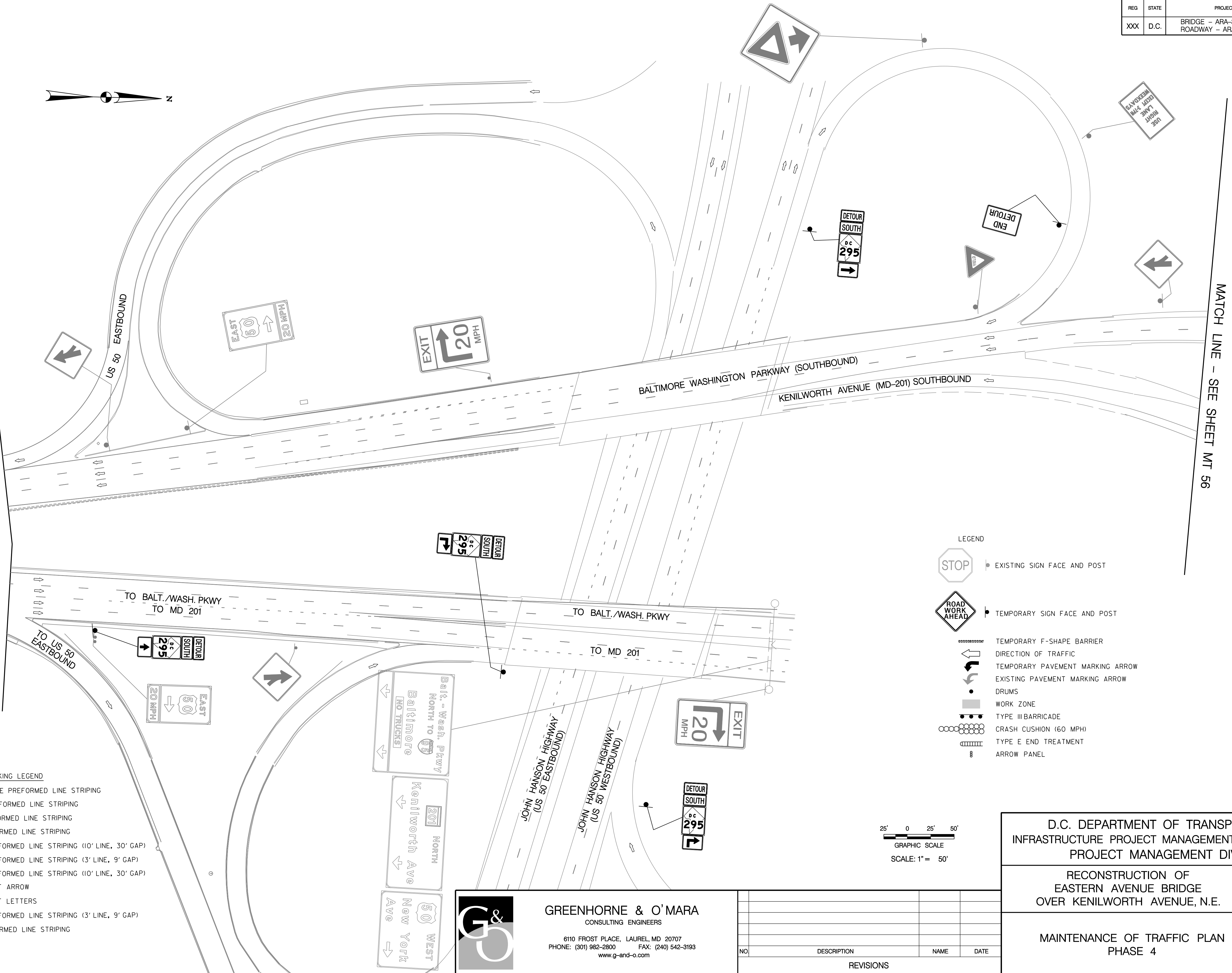
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 \$PENTBL\$\$
 \$PLTDRV\$\$

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	92	242



MATCH LINE - SEE SHEET MT 54

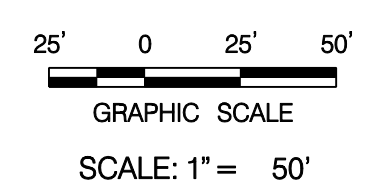
MATCH LINE - SEE SHEET MT 56



LEGEND

	EXISTING SIGN FACE AND POST
	TEMPORARY SIGN FACE AND POST
	TEMPORARY F-SHAPE BARRIER
	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT MARKING ARROW
	EXISTING PAVEMENT MARKING ARROW
	DRUMS
	WORK ZONE
	TYPE III BARRICADE
	CRASH CUSHION (60 MPH)
	TYPE E END TREATMENT
	ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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\$PLTDRV\$\$

MT 55

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

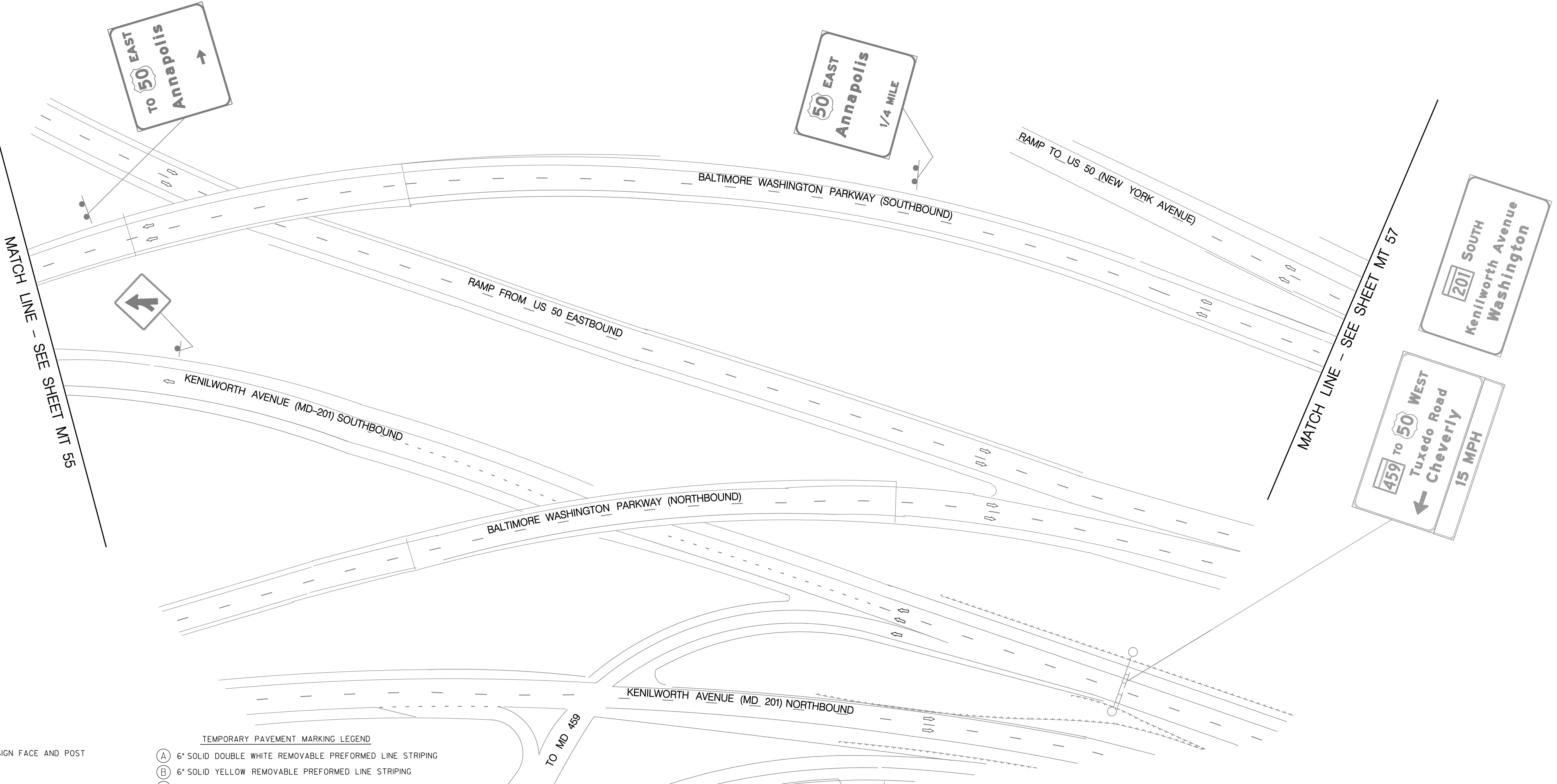
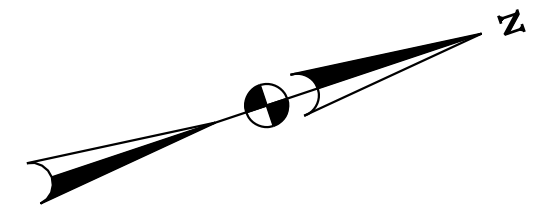
PROJECT ENG. <u>JDS</u>	PROJECT MGR. <u>JDS</u>
DESIGNED BY <u>JDS</u>	
CHECKED BY <u>JMC</u>	
DRAWN BY <u>STK/SJL</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

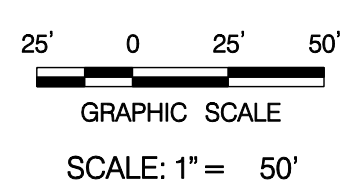
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	93	242



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- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



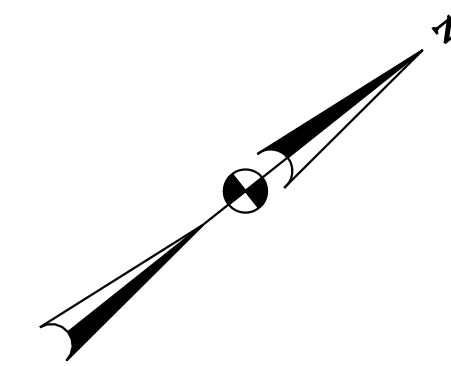
GREENHORNE & O'MARA
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 PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

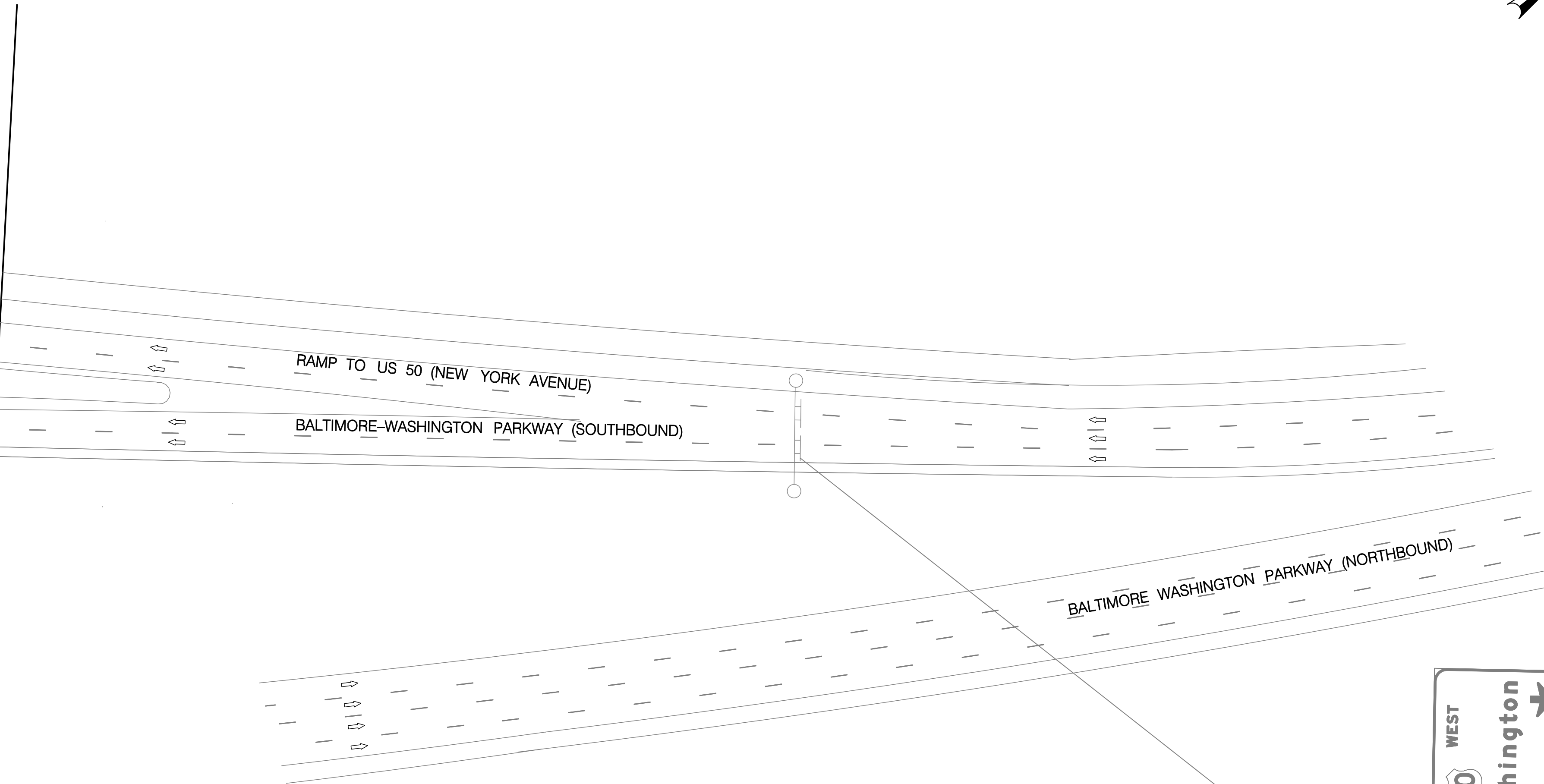
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. <u>JDS</u> DESIGNED BY <u>JDS</u> CHECKED BY <u>JMC</u> DRAWN BY <u>STK/SJL</u> PROJECT MGR. <u>JDS</u>
MAINTENANCE OF TRAFFIC PLAN PHASE 4	DIVISION CHIEF DATE _____ FILE _____

MT 56

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	94	242



MATCH LINE - SEE SHEET MT 56

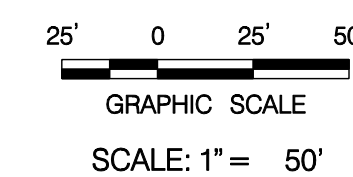


LEGEND

	EXISTING SIGN FACE AND POST
	TEMPORARY SIGN FACE AND POST
	TEMPORARY F-SHAPE BARRIER
	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT MARKING ARROW
	EXISTING PAVEMENT MARKING ARROW
	DRUMS
	WORK ZONE
	TYPE III BARRICADE
	CRASH CUSHION (60 MPH)
	TYPE E END TREATMENT
	ARROW PANEL

TEMPORARY PAVEMENT MARKING LEGEND

(A)	6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
(B)	6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
(C)	12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
(D)	6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
(E)	6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
(F)	6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
(G)	4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
(H)	REMOVABLE PREFORMED PAVEMENT ARROW
(J)	REMOVABLE PREFORMED PAVEMENT LETTERS
(K)	4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
(L)	4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 57

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 4**

PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
DESIGNED BY <u>JMC</u>	DATE _____
DRAWN BY <u>STK/SJL</u>	FILE _____
PROJECT MGR. <u>JDS</u>	

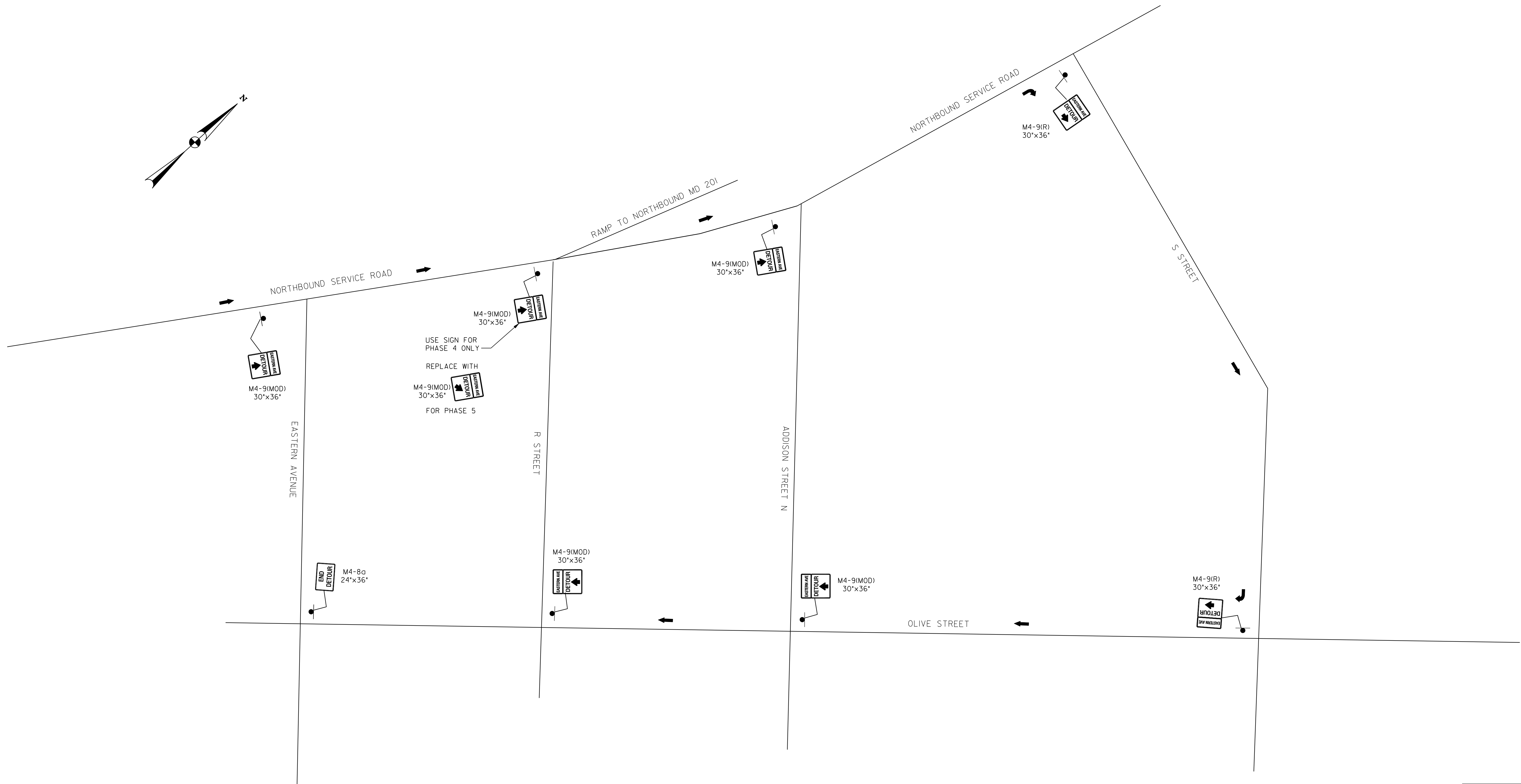
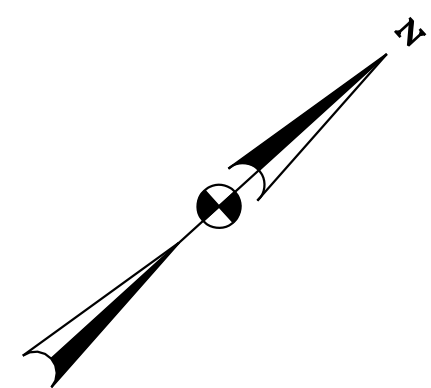
GREENHORNE & O'MARA
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REVISIONS			

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 Tue 03/23/2009 10:08:52 AM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	95	242



USE SIGN FOR PHASE 4 ONLY
REPLACE WITH
M4-9(MOD) 30'x36'
FOR PHASE 5

MT 58

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
DETOUR PLAN FOR
TRAFFIC TO EASTERN AVENUE
PHASES 4-5

PROJECT ENG. <u> </u> JDS	DESIGNED BY <u> </u> JDS
CHECKED BY <u> </u> JMC	DRAWN BY <u> </u> STKSJL
PROJECT MGR. <u> </u> JDS	DIVISION CHIEF
DATE <u> </u>	FILE <u> </u>

GREENHORNE & O'MARA
CONSULTING ENGINEERS

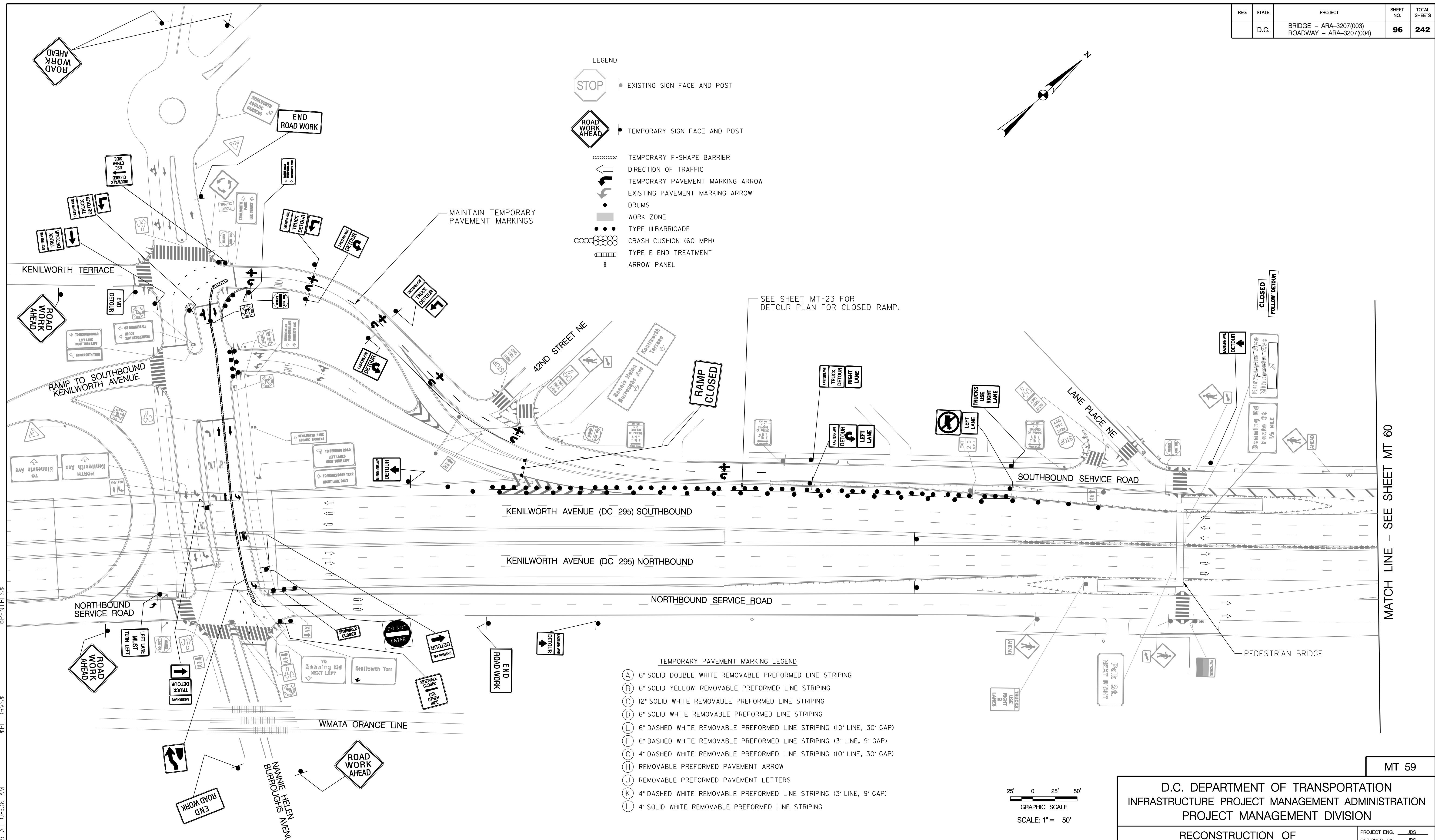
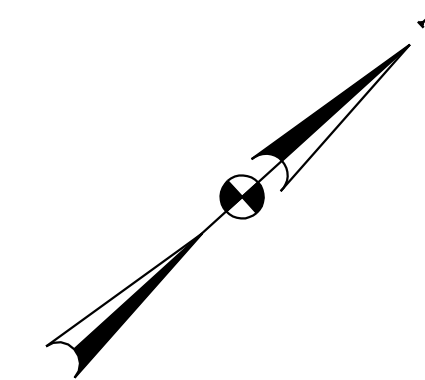
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

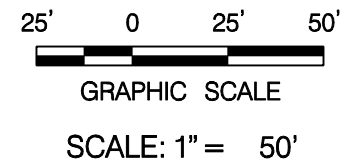
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 \$PLTDRVS\$

LEGEND

- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL



- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 60

MT 59

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

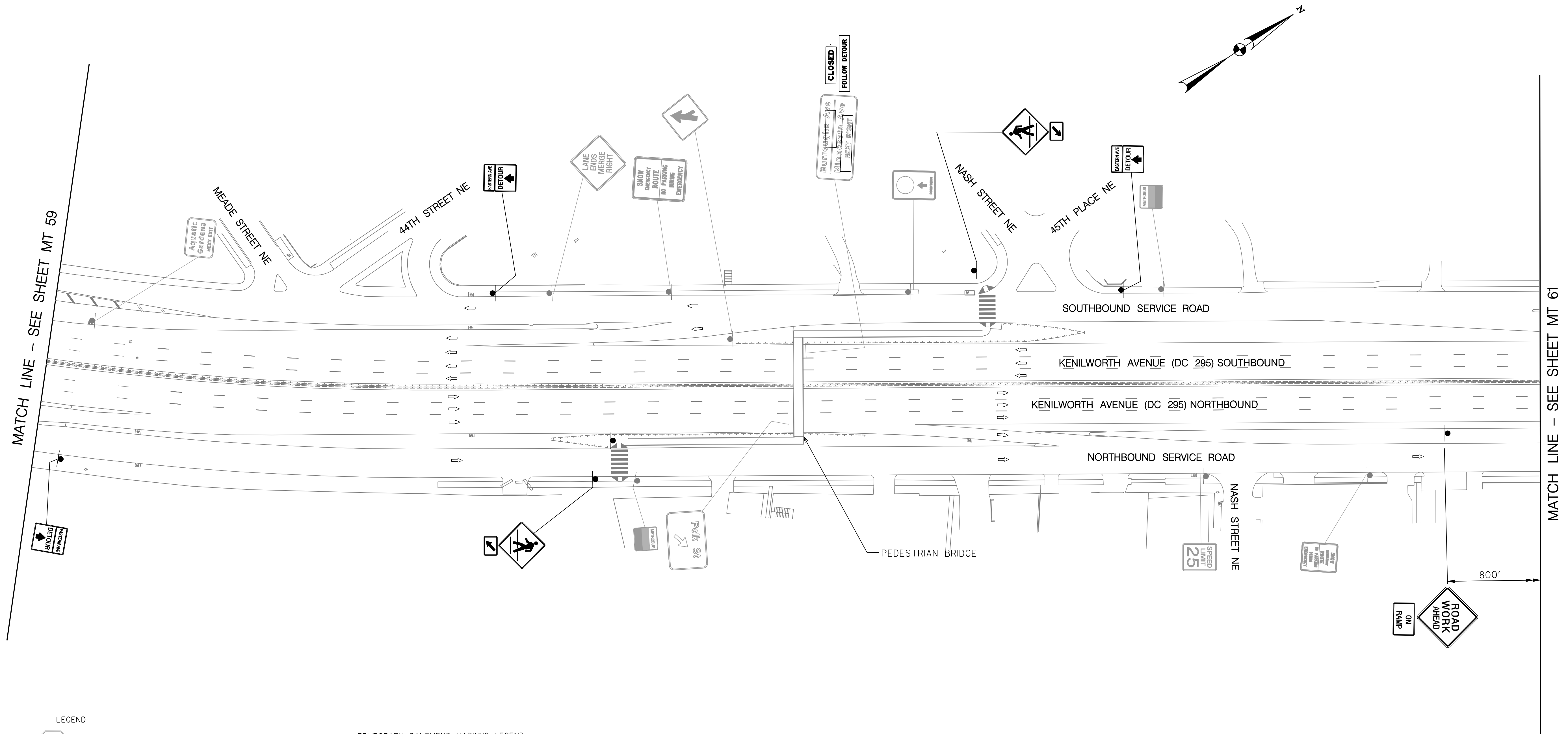
PROJECT ENG. <u> </u> JDS	DESIGNED BY <u> </u> JDS
CHECKED BY <u> </u> JMC	DRAWN BY <u> </u> STK/SJL
PROJECT MGR. <u> </u> JDS	DIVISION CHIEF
DATE <u> </u>	FILE <u> </u>

GREENHORNE & O'MARA
CONSULTING ENGINEERS

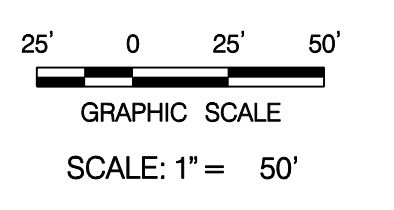
6110 FROST PLACE, LAUREL, MD 20707
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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Thurs 04/23/2009 11:08:06 AM \$PLTDRV\$ \$PENTBL\$\$



- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 61

MATCH LINE - SEE SHEET MT 59

MT 60

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STKSJL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____



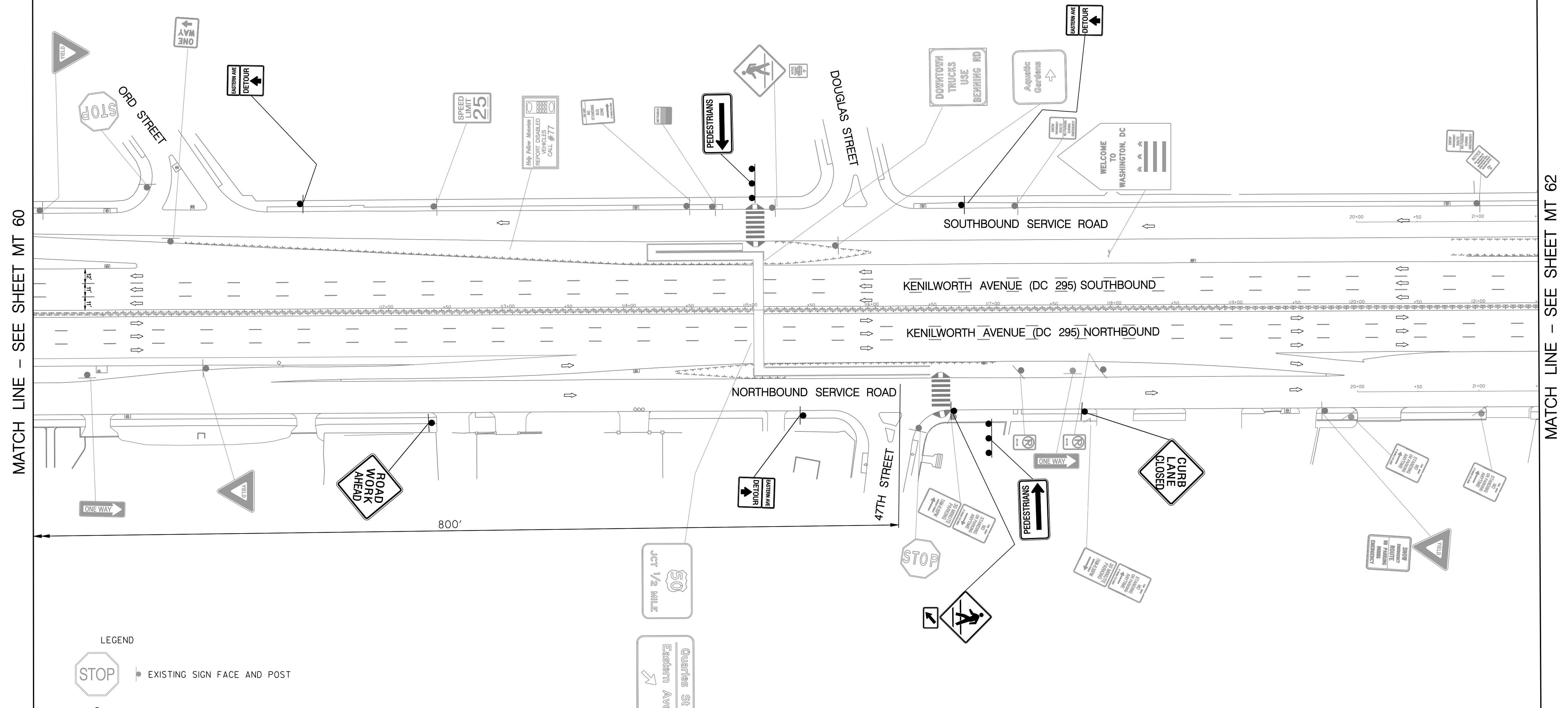
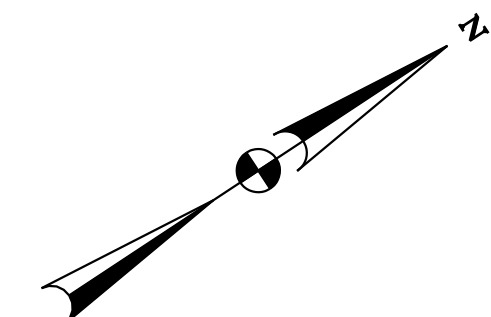
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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s\$PLTDRVS.s\$

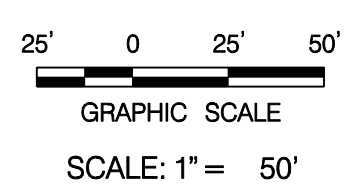
- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 60

MATCH LINE - SEE SHEET MT 62

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MT 61

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 5**

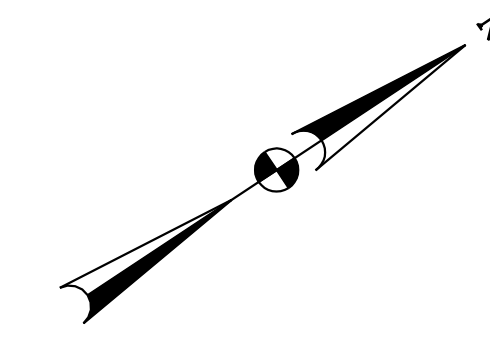
PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

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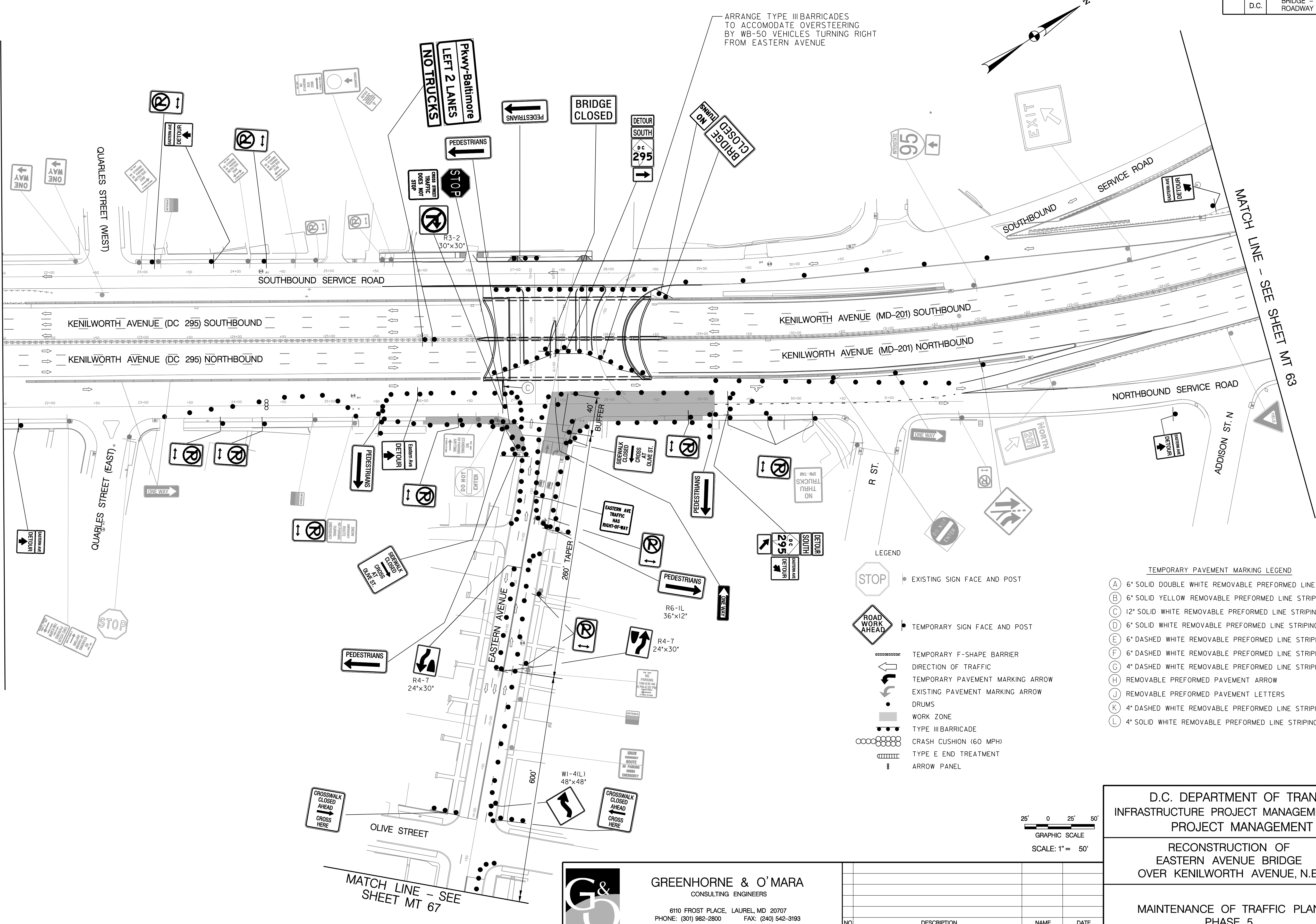
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	99	242



MATCH LINE - SEE SHEET MT 61

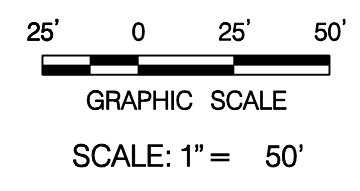
MATCH LINE - SEE SHEET MT 63



ARRANGE TYPE III BARRICADES TO ACCOMMODATE OVERSTEERING BY WB-50 VEHICLES TURNING RIGHT FROM EASTERN AVENUE

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (I) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

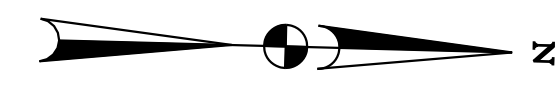
MT 62

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

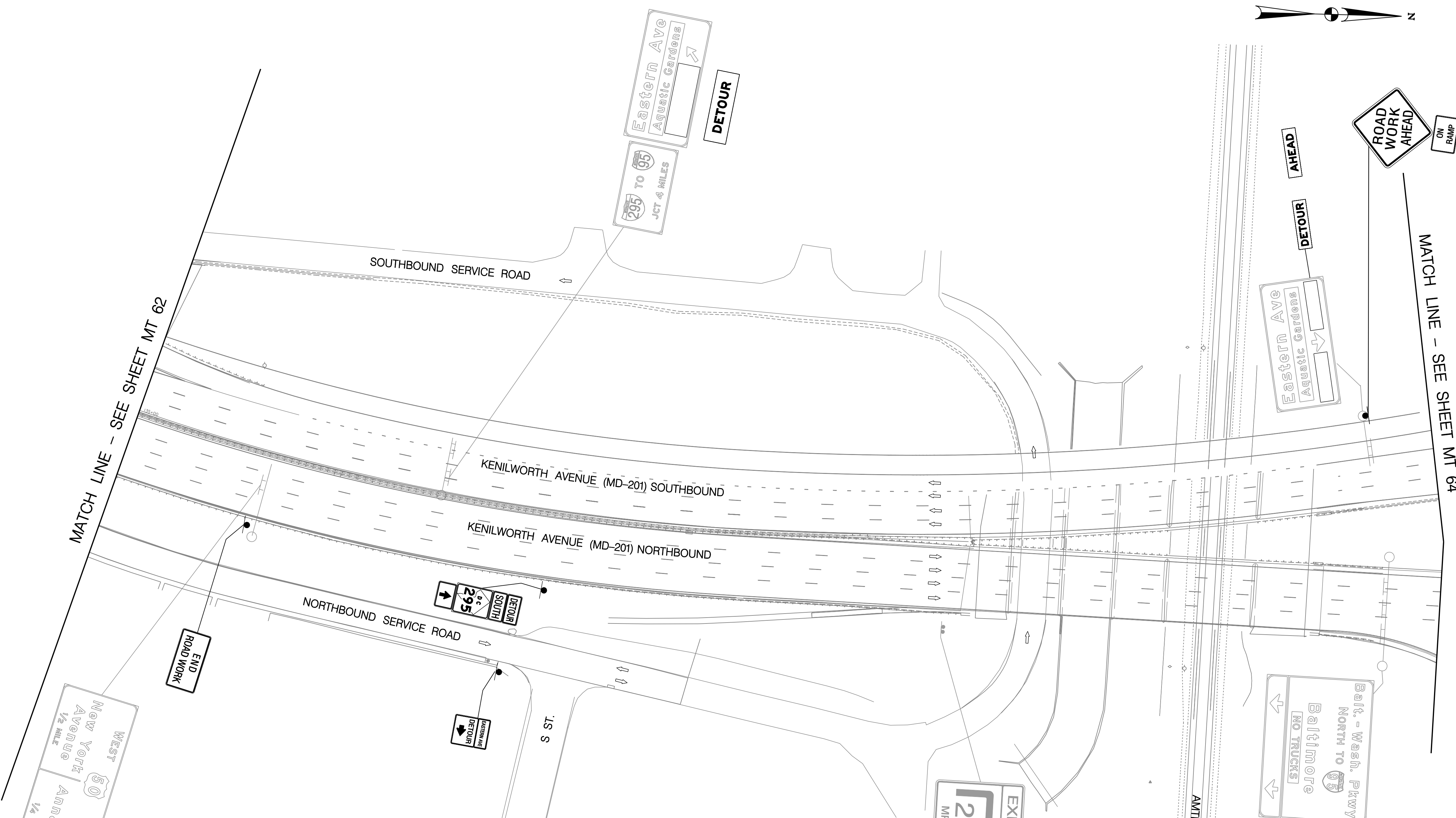
MAINTENANCE OF TRAFFIC PLAN
PHASE 5

PROJECT ENG. <u> </u> JDS DESIGNED BY <u> </u> JDS CHECKED BY <u> </u> JMC DRAWN BY <u> </u> STK/SJL PROJECT MGR. <u> </u> JDS	DIVISION CHIEF DATE <u> </u> FILE <u> </u>
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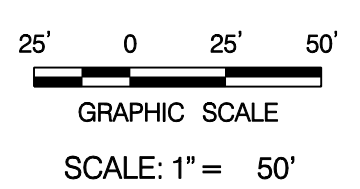
MATCH LINE - SEE SHEET MT 62

MATCH LINE - SEE SHEET MT 64



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 63

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

PROJECT ENG. JDS
DESIGNED BY JMC
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____



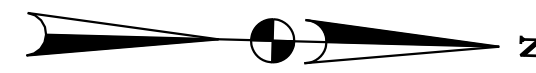
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

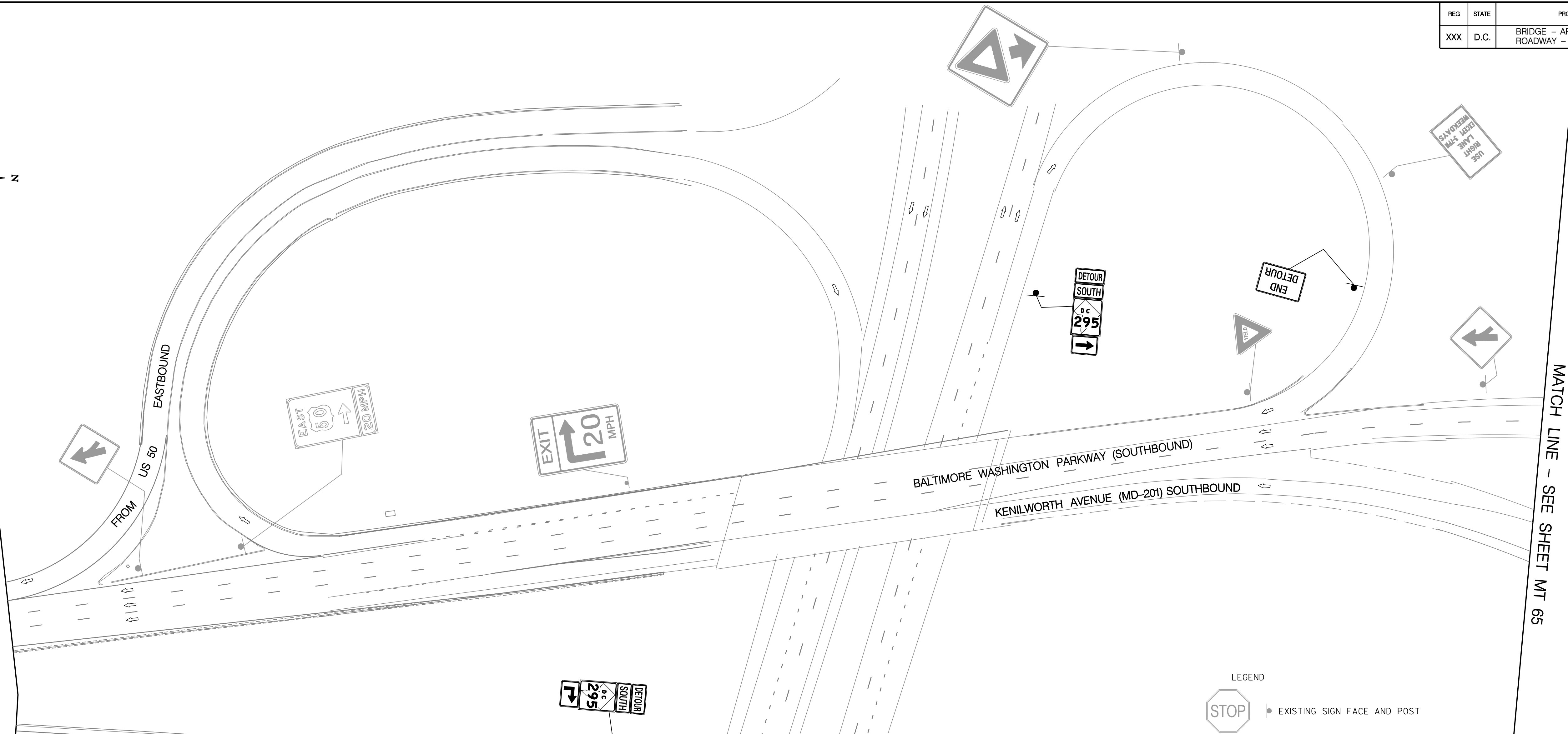
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	101	242



MATCH LINE - SEE SHEET MT 63

MATCH LINE - SEE SHEET MT 65

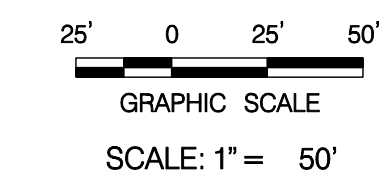


LEGEND

- EXISTING SIGN FACE AND POST
- TEMPORARY SIGN FACE AND POST
- TEMPORARY F-SHAPE BARRIER
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING ARROW
- EXISTING PAVEMENT MARKING ARROW
- DRUMS
- WORK ZONE
- TYPE III BARRICADE
- CRASH CUSHION (60 MPH)
- TYPE E END TREATMENT
- ARROW PANEL

TEMPORARY PAVEMENT MARKING LEGEND

- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
- (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
- (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
- (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
- (H) REMOVABLE PREFORMED PAVEMENT ARROW
- (J) REMOVABLE PREFORMED PAVEMENT LETTERS
- (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
- (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 64

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

DATE _____
FILE _____

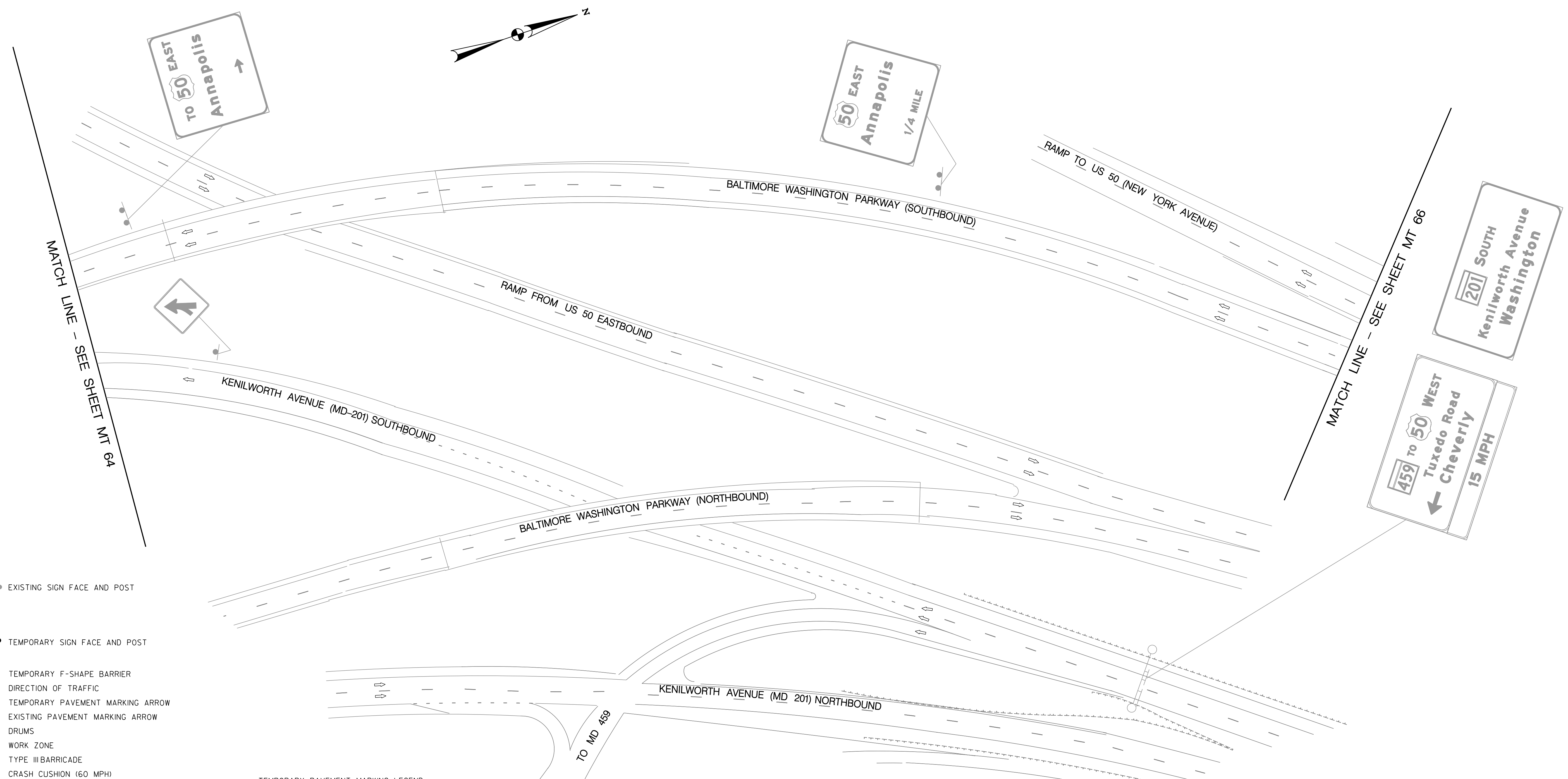


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

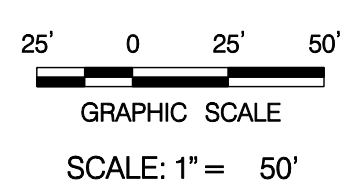
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	102	242



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- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
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 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 65

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

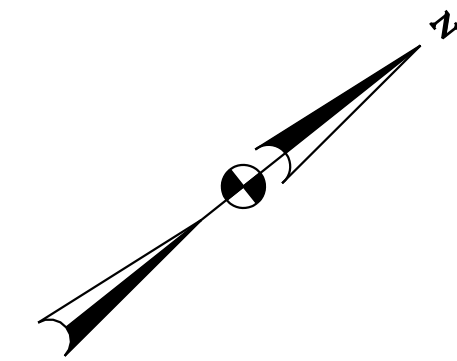
MAINTENANCE OF TRAFFIC PLAN
 PHASE 5

PROJECT ENG. <u> </u> JDS DESIGNED BY <u> </u> JDS CHECKED BY <u> </u> JMC DRAWN BY <u> </u> STK/SJL PROJECT MGR. <u> </u> JES	DIVISION CHIEF
DATE <u> </u> FILE <u> </u>	

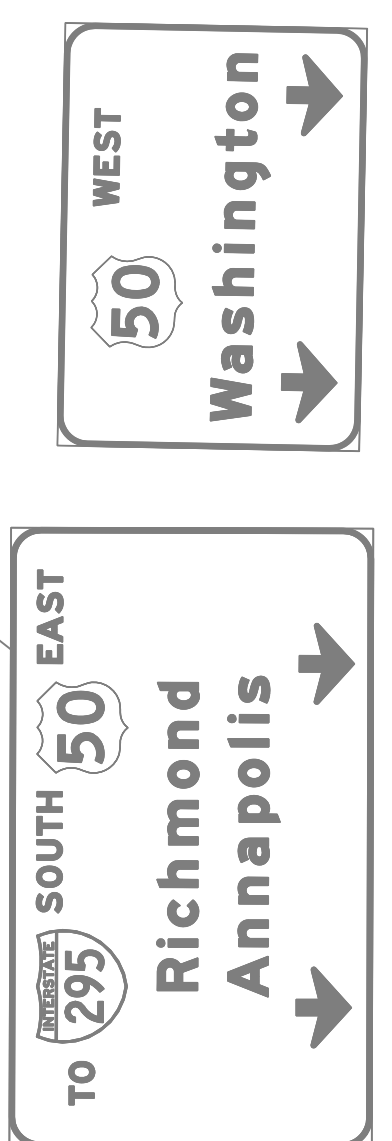
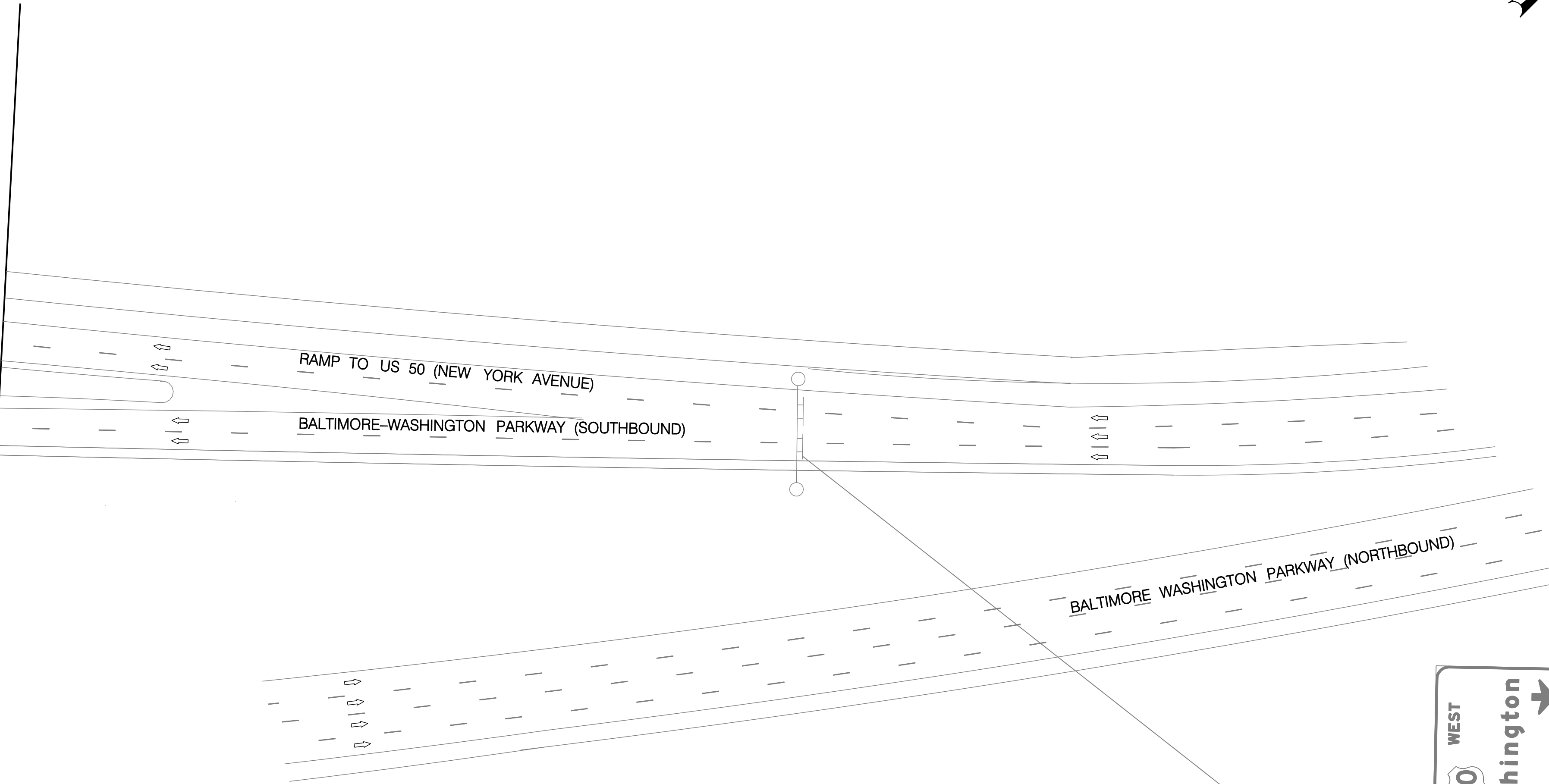
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 6110 FROST PLACE, LAUREL, MD 20707
 PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	103	242

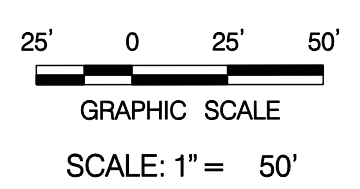


MATCH LINE - SEE SHEET MT 65



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 66

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

PROJECT ENG. <u> </u> JDS
DESIGNED BY <u> </u> JDS
CHECKED BY <u> </u> JMC
DRAWN BY <u> </u> STK/SJL
PROJECT MGR. <u> </u> JDS

DIVISION CHIEF

DATE

FILE

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CONSULTING ENGINEERS

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PHONE: (301) 982-2800 FAX: (240) 542-3193
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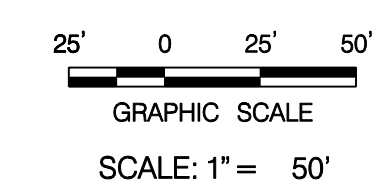
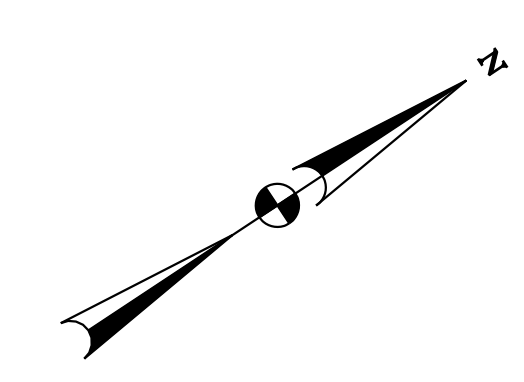
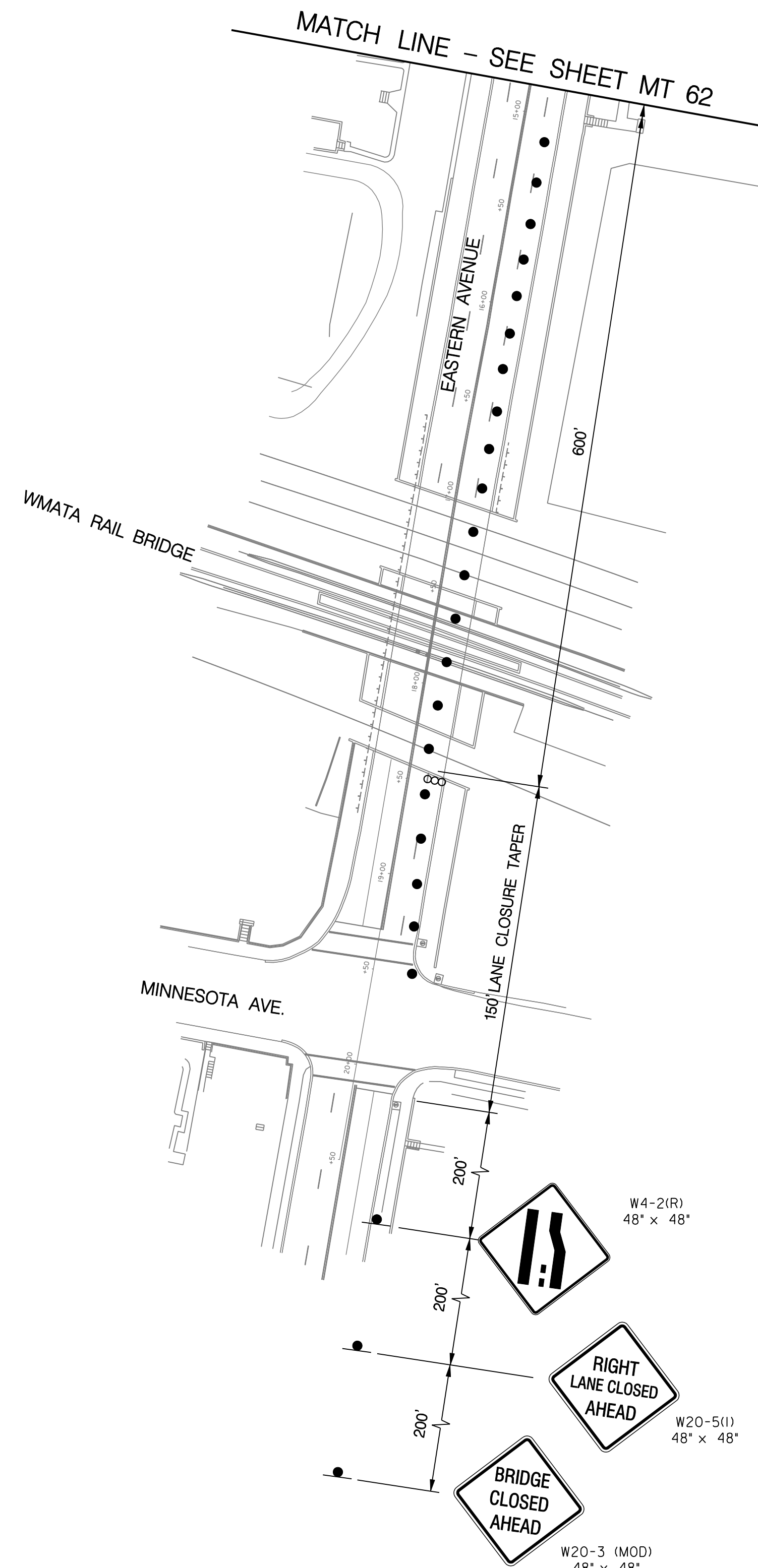
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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Tuesday, March 31, 2009 AT 11:29 AM \$PENTBL\$\$ \$PLIDRYS\$

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - APA-3207(003) ROADWAY - APA-3207(004)	104	242

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 67

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 5**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

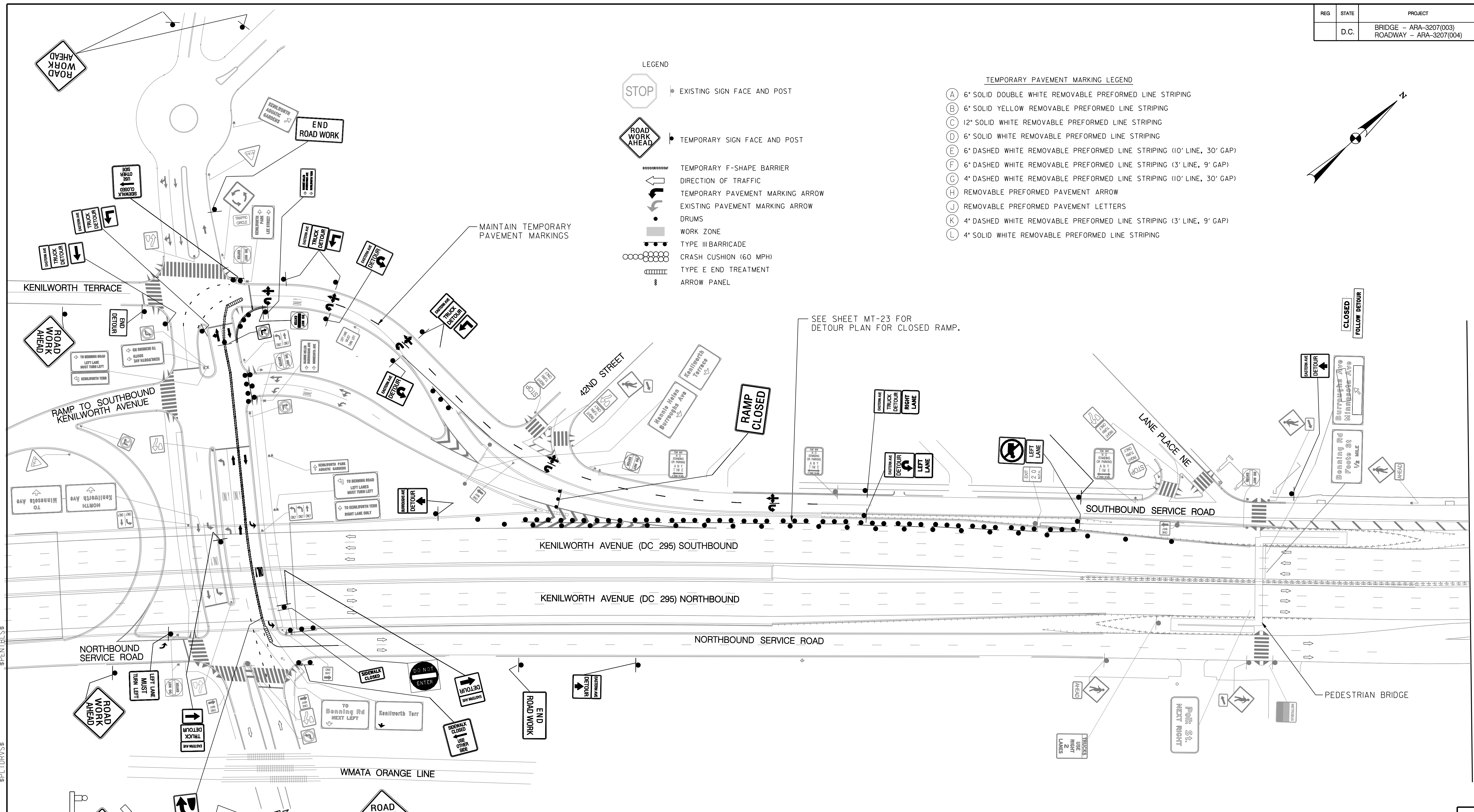
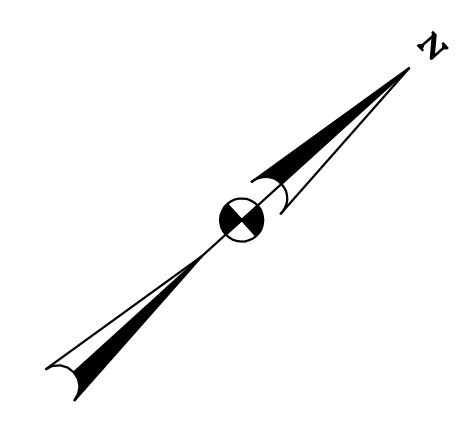
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

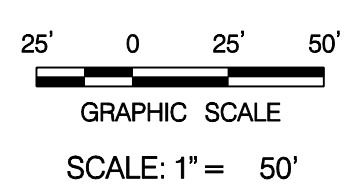
- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



SEE SHEET MT-23 FOR
DETOUR PLAN FOR CLOSED RAMP.

MATCH LINE - SEE SHEET MT 69

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Thursday, April 23, 2009 11:08:11 AM



MT 68

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

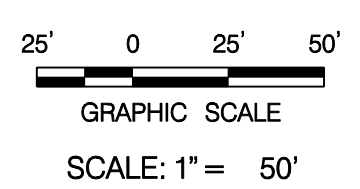
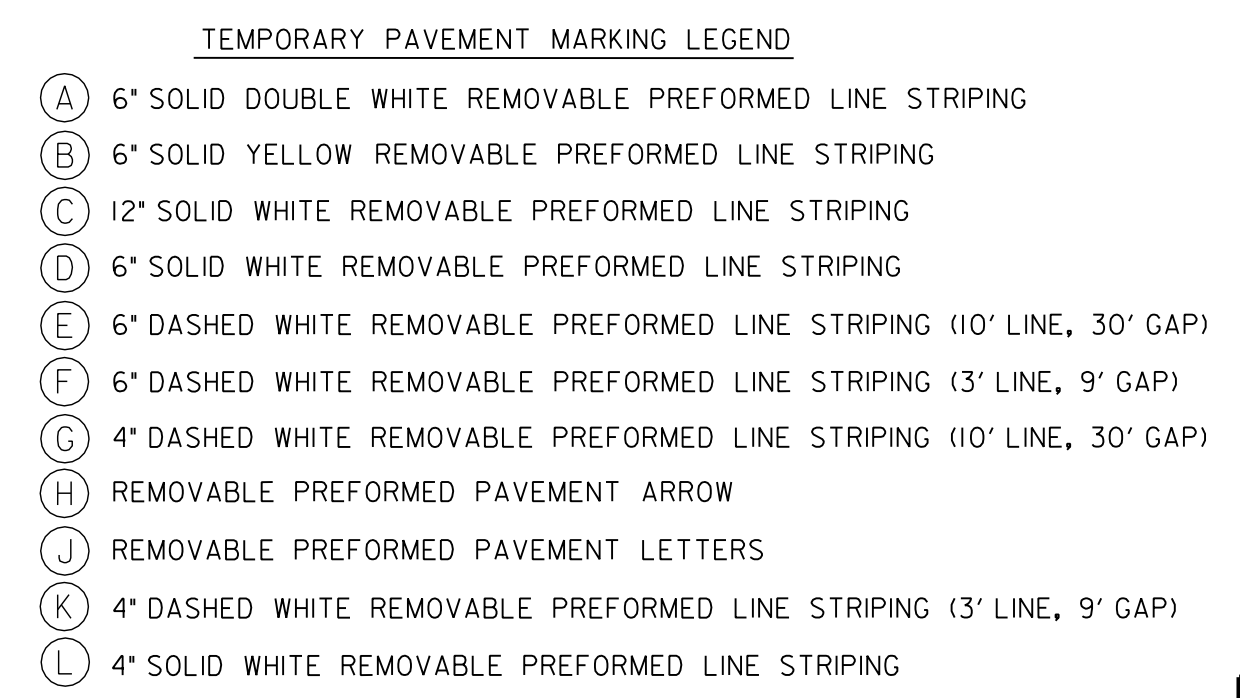
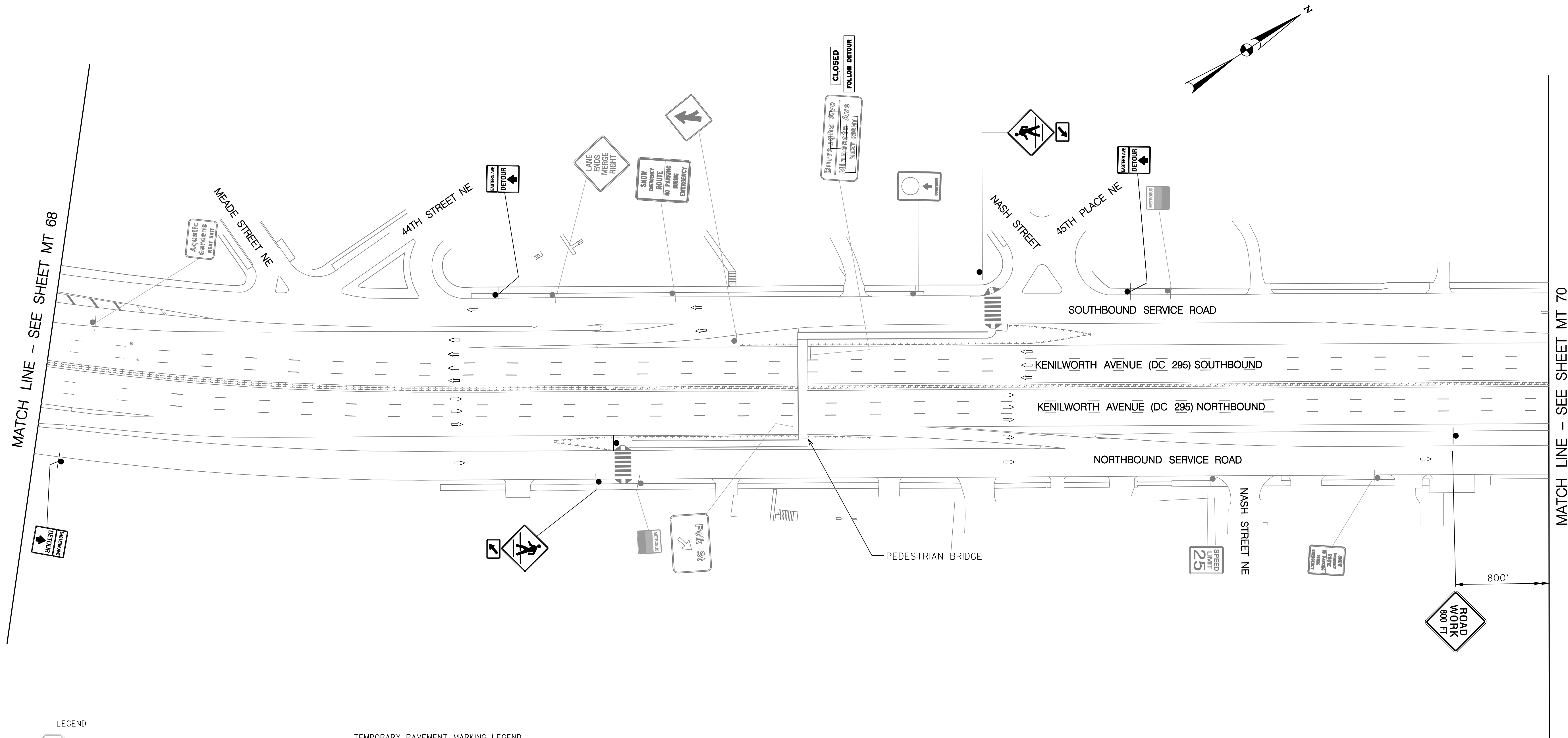
MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SJL</u>
PROJECT MGR. <u>JDS</u>	
DIVISION CHIEF	
DATE _____	
FILE _____	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			



MT 69

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**MAINTENANCE OF TRAFFIC PLAN
PHASE 6**

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STKSJL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

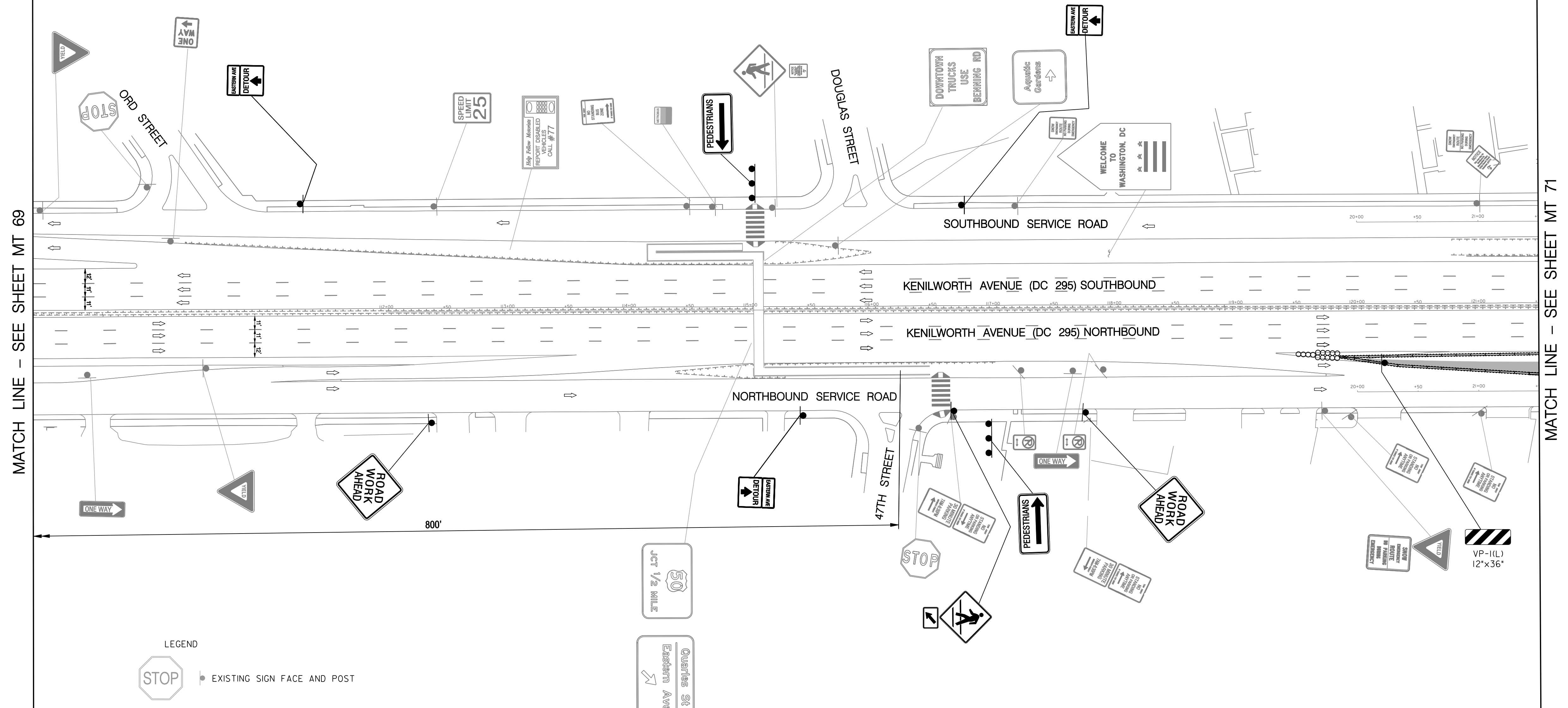
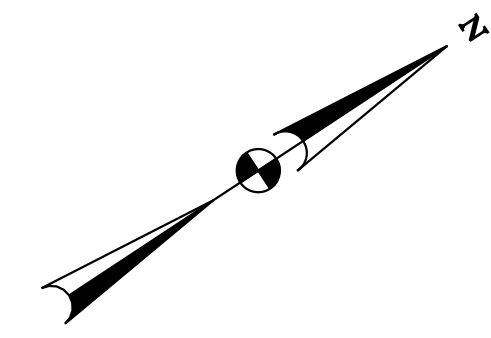
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 Tue 03/24/2009 11:36 AM
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- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MATCH LINE - SEE SHEET MT 69

MATCH LINE - SEE SHEET MT 71

- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

MT 70

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SIL
PROJECT MGR. JDS

DIVISION CHIEF

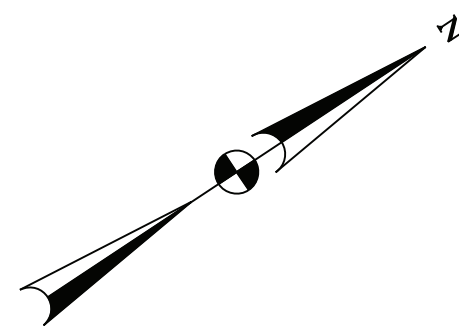
DATE _____
FILE _____

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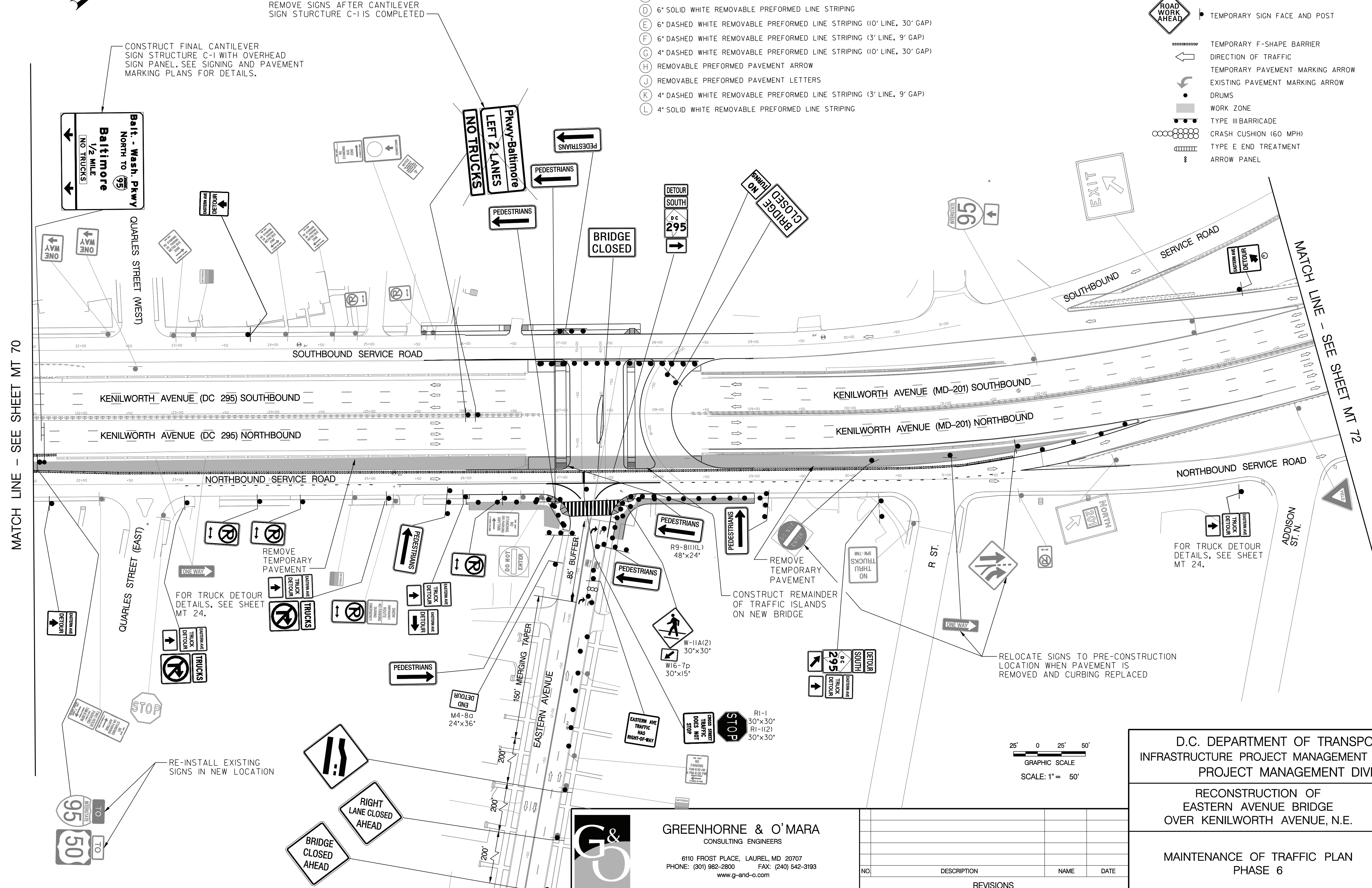
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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\$PLTDRV\$\$



- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING

- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL



MATCH LINE - SEE SHEET MT 70

MATCH LINE - SEE SHEET MT 72

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MT 71

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

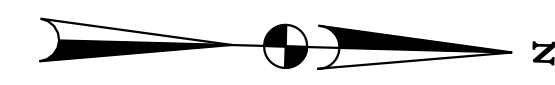
MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
DESIGNED BY <u>JDS</u>	DATE _____
CHECKED BY <u>JMC</u>	FILE _____
DRAWN BY <u>STKSIL</u>	
PROJECT MGR. <u>JDS</u>	

GREENHORNE & O'MARA
CONSULTING ENGINEERS

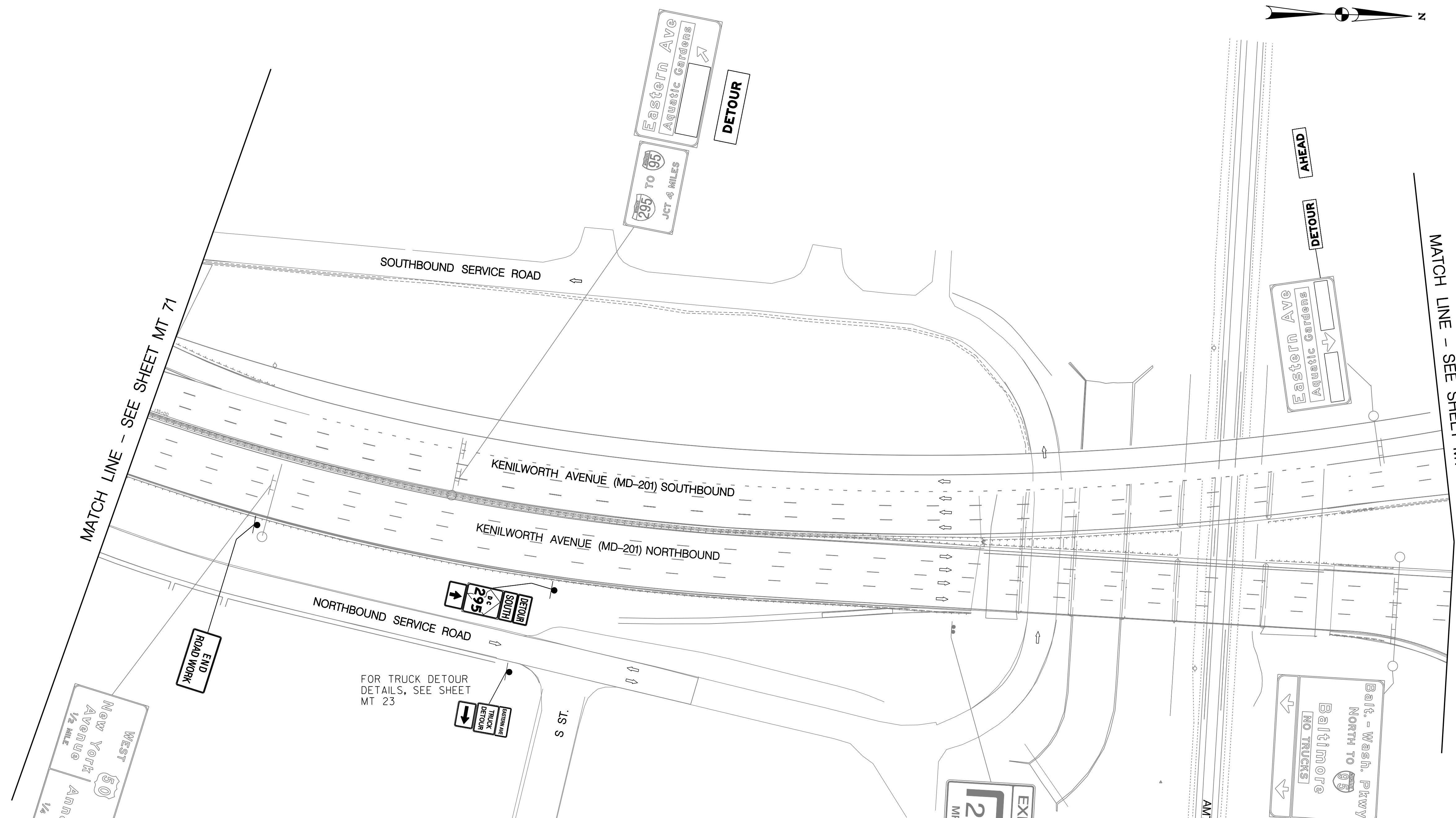
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			



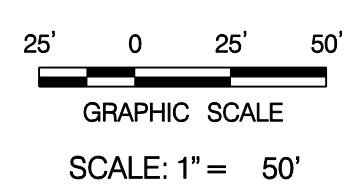
MATCH LINE - SEE SHEET MT 71

MATCH LINE - SEE SHEET MT 73



- LEGEND**
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND**
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 72

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. JDS
DESIGNED BY JDS
CHECKED BY JMC
DRAWN BY STK/SJL
PROJECT MGR. JDS
DIVISION CHIEF
DATE
FILE

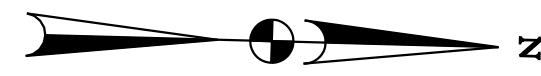


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

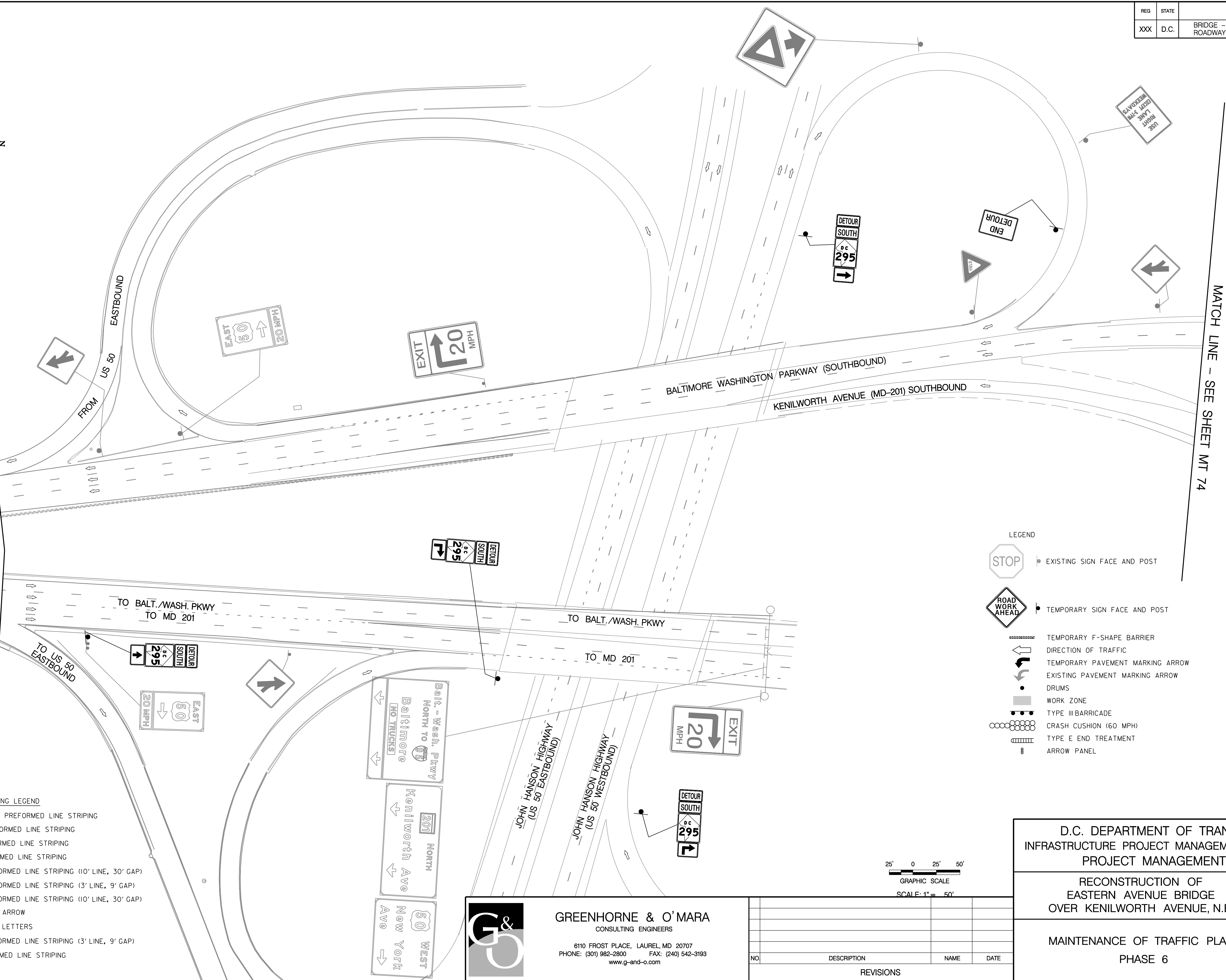
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	110	242



MATCH LINE - SEE SHEET MT 72

MATCH LINE - SEE SHEET MT 74

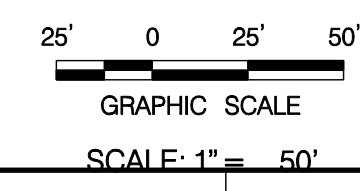


LEGEND

	EXISTING SIGN FACE AND POST
	TEMPORARY SIGN FACE AND POST
	TEMPORARY F-SHAPE BARRIER
	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT MARKING ARROW
	EXISTING PAVEMENT MARKING ARROW
	DRUMS
	WORK ZONE
	TYPE III BARRICADE
	CRASH CUSHION (60 MPH)
	TYPE E END TREATMENT
	ARROW PANEL

TEMPORARY PAVEMENT MARKING LEGEND

(A)	6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
(B)	6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
(C)	12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
(D)	6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
(E)	6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
(F)	6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
(G)	4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
(H)	REMOVABLE PREFORMED PAVEMENT ARROW
(J)	REMOVABLE PREFORMED PAVEMENT LETTERS
(K)	4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
(L)	4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 73

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. <u>JDS</u>	DIVISION CHIEF
CHECKED BY <u>JMC</u>	DATE _____
DRAWN BY <u>STK/SJL</u>	FILE _____
PROJECT MGR. <u>JDS</u>	

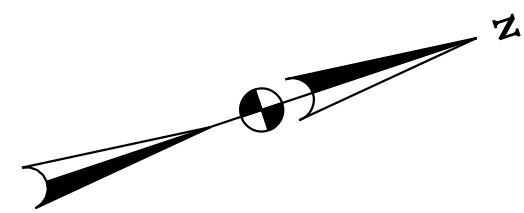
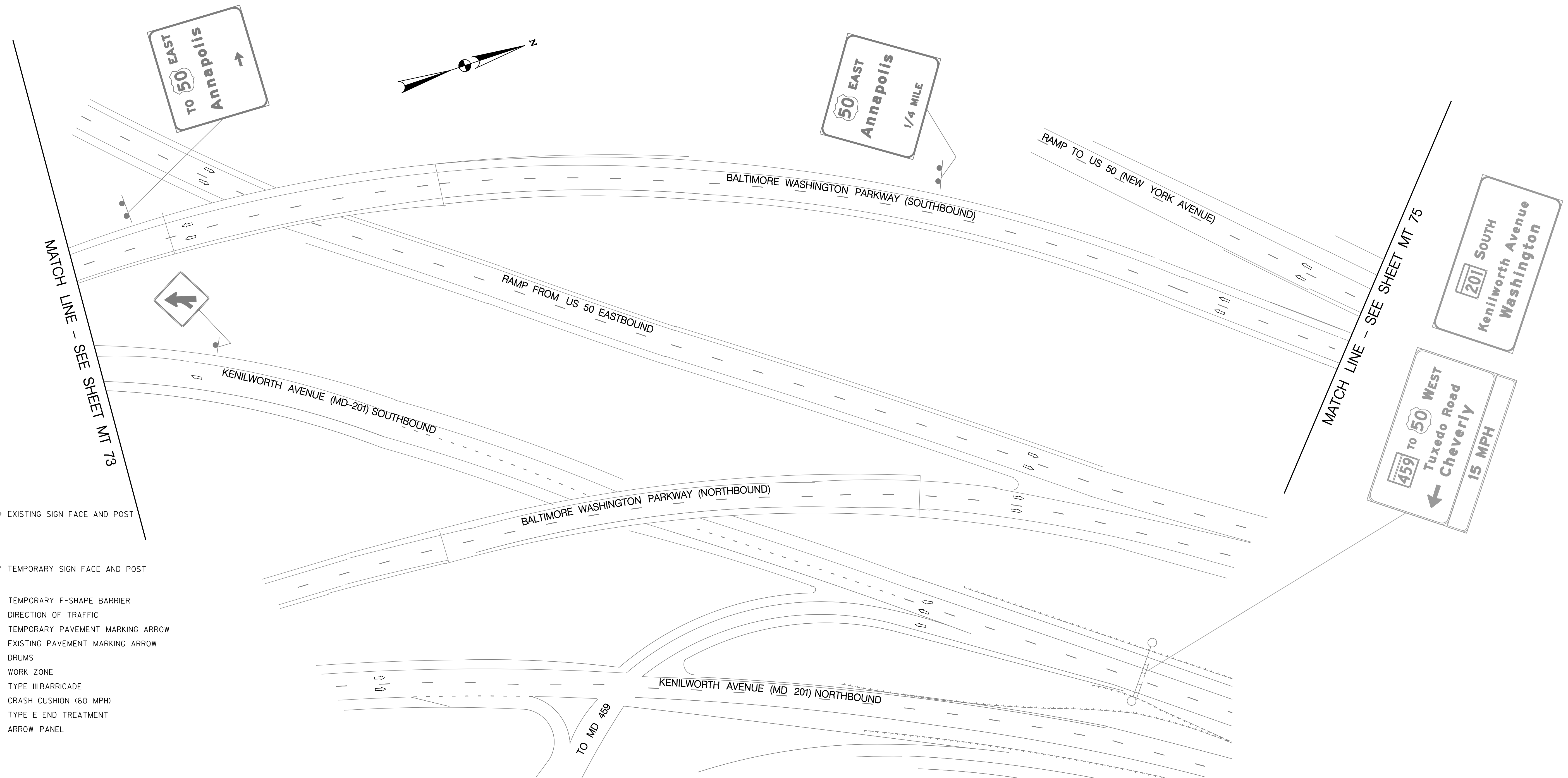
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

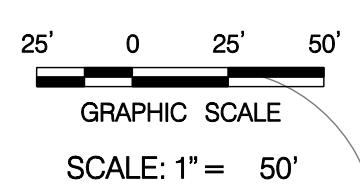
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Tue 03/24/2009 11:44 AM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	111	242



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 74

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. <u>JDS</u>	DESIGNED BY <u>JDS</u>
CHECKED BY <u>JMC</u>	DRAWN BY <u>STK/SIL</u>
PROJECT MGR. <u>JDS</u>	DIVISION CHIEF
DATE _____	FILE _____

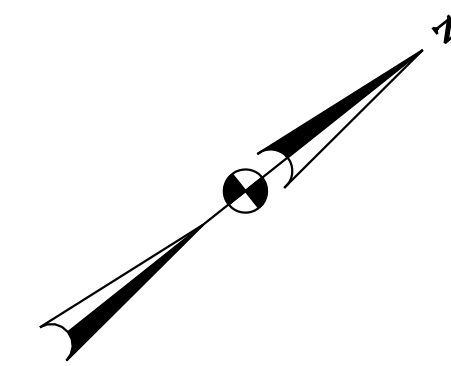
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CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

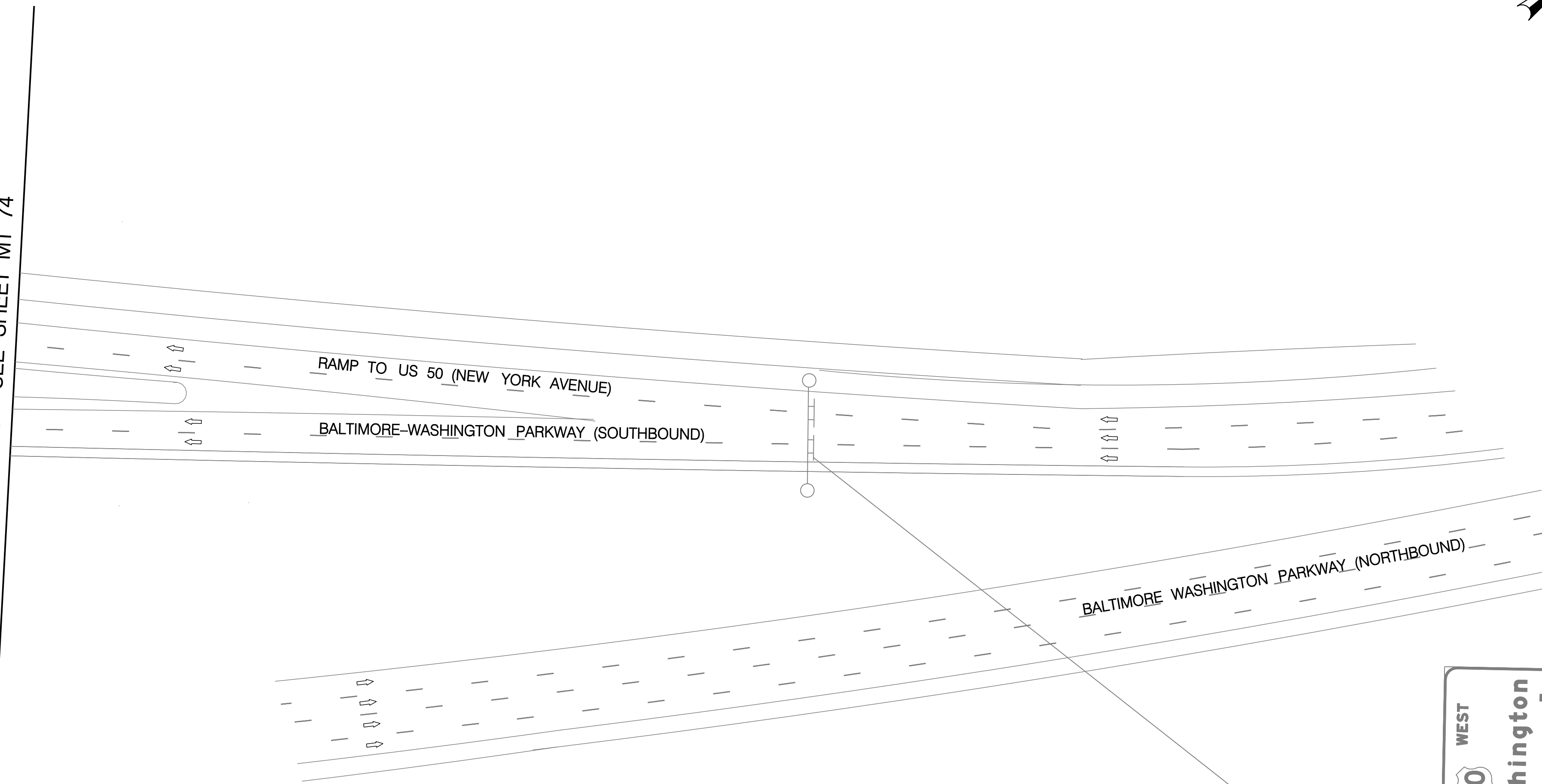
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

J:\TRANS\0852.006 - Eastern Ave\CADD\Trans\DMT-P607.ecstern.dgn
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 \$PENTBL\$\$
 \$PLTDRYS\$

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	112	242

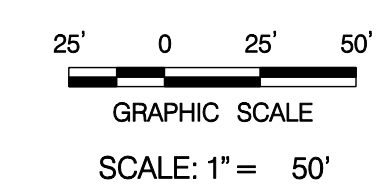
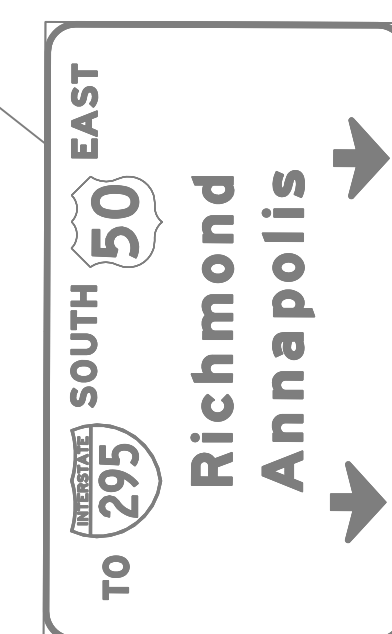


MATCH LINE - SEE SHEET MT 74



- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
 - DRUMS
 - WORK ZONE
 - TYPE III BARRICADE
 - CRASH CUSHION (60 MPH)
 - TYPE E END TREATMENT
 - ARROW PANEL

- TEMPORARY PAVEMENT MARKING LEGEND
- (A) 6" SOLID DOUBLE WHITE REMOVABLE PREFORMED LINE STRIPING
 - (B) 6" SOLID YELLOW REMOVABLE PREFORMED LINE STRIPING
 - (C) 12" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (D) 6" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING
 - (E) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (F) 6" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (G) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (10' LINE, 30' GAP)
 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 75

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 6

PROJECT ENG. <u> </u> JDS DESIGNED BY <u> </u> JDS CHECKED BY <u> </u> JMC DRAWN BY <u> </u> STK/SJL PROJECT MGR. <u> </u> JDS	DIVISION CHIEF DATE _____ FILE _____
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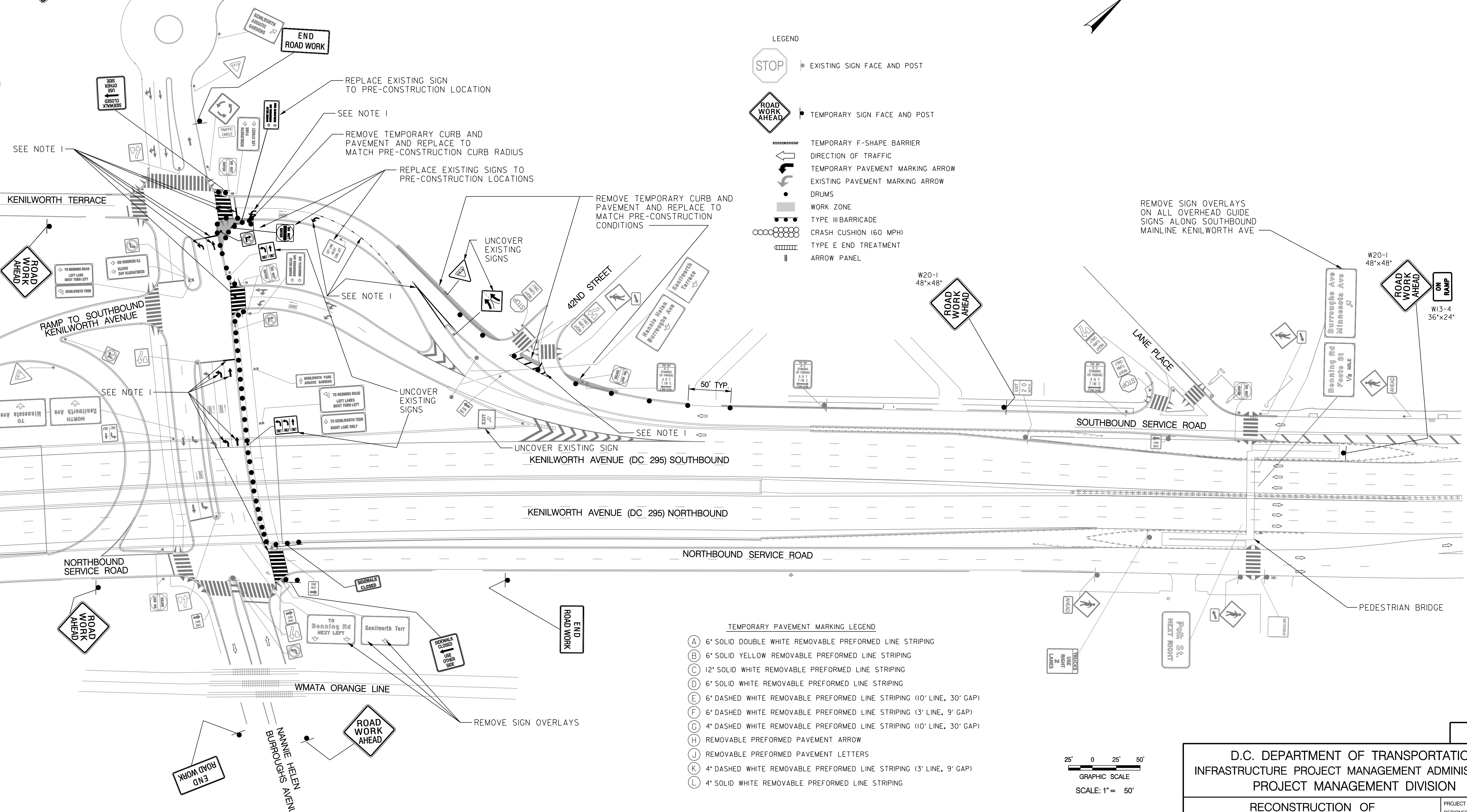
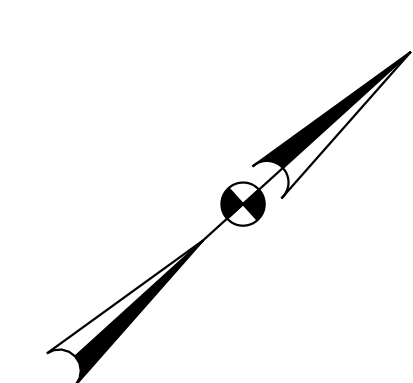
GREENHORNE & O'MARA
CONSULTING ENGINEERS

6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

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REVISIONS			

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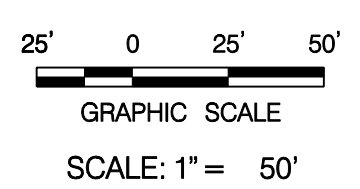
CONSTRUCTION NOTE:
1. RESTORE ALL PAVEMENT MARKING ARROWS, LANE LINES, CROSSWALK LINES AND STOP BARS TO PRE-CONSTRUCTION CONDITIONS ALONG WESTBOUND NANNIE HELEN BURROUGHS AVENUE AND THE SOUTHBOUND SERVICE ROAD WHERE SHOWN.



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- LEGEND
- EXISTING SIGN FACE AND POST
 - TEMPORARY SIGN FACE AND POST
 - TEMPORARY F-SHAPE BARRIER
 - DIRECTION OF TRAFFIC
 - TEMPORARY PAVEMENT MARKING ARROW
 - EXISTING PAVEMENT MARKING ARROW
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 - (H) REMOVABLE PREFORMED PAVEMENT ARROW
 - (J) REMOVABLE PREFORMED PAVEMENT LETTERS
 - (K) 4" DASHED WHITE REMOVABLE PREFORMED LINE STRIPING (3' LINE, 9' GAP)
 - (L) 4" SOLID WHITE REMOVABLE PREFORMED LINE STRIPING



MT 76

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MAINTENANCE OF TRAFFIC PLAN
PHASE 7

PROJECT ENG. <u> </u> JDS DESIGNED BY <u> </u> JMC CHECKED BY <u> </u> STK/SJL DRAWN BY <u> </u> JDS PROJECT MGR. <u> </u> JDS	DIVISION CHIEF
DATE <u> </u> FILE <u> </u>	

GREENHORNE & O'MARA
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 PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	114	242

GENERAL NOTES

SPECIFICATIONS

- AASHTO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS, FOURTH EDITION, 2007 INCLUDING ALL INTERIM SPECIFICATIONS
- AASHTO/AWS BRIDGE WELDING CODE D1.5M/D1.5:2002
- AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, FOURTH EDITION 2001.

ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES" DATED 2007, ISSUED BY THE DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC WORKS, AND THE SPECIAL PROVISIONS.

DESIGN METHOD AND LOADS

LOAD AND RESISTANCE FACTOR DESIGN METHOD.

THE BRIDGE IS DESIGNED FOR HL-93 LIVE LOADING.

RATINGS:

RATINGS ARE BASED ON LOAD AND RESISTANCE FACTOR RATING METHOD UTILIZING THE LOADINGS STATED IN THE GENERAL NOTES.

HL-93 INVENTORY RATING = 1.47
HL-93 OPERATING RATING = 1.90

STEEL AND STRUCTURAL STEEL

AASHTO M270 GRADE 50, Fy = 50 KSI, Fu = 65 KSI FOR ALL STEEL UNLESS OTHERWISE NOTED.

CONNECTIONS

UNLESS OTHERWISE PROVIDED ON THE PLANS, FIELD CONNECTIONS SHALL BE 7/8" DIAMETER HIGH STRENGTH BOLTS, AASHTO M 164 (ASTM A 325). OPEN HOLES SHALL BE 1/8" DIAMETER. ALL JOINTS ARE DESIGNED AS FRICTION TYPE CONNECTIONS. TIGHTENING SHALL BE AS PER 706.17 OF THE STANDARD SPECIFICATIONS.

PAINT

ALL STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH 707 OF THE STANDARD SPECIFICATIONS FOR PAINTING. ALL STEEL PLATE SURFACE WHICH WILL BECOME INACCESSIBLE FOR MAINTENANCE SHALL BE ADEQUATELY PAINTED BEFORE ASSEMBLY. THE COLOR FOR THE FINISH COAT SHALL MATCH FEDERAL STANDARD 595B COLOR NO. 20045.

CHARPY V-NOTCH IMPACT TESTS

CHARPY V-NOTCH TESTS (CVN) SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO SPECIFICATIONS FOR MATERIALS T243. FOR FURTHER INFORMATION SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

PREFABRICATED CONSTRUCTION

IN ADDITION TO THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS, THE FOLLOWING REQUIREMENTS SHALL APPLY FOR THE CONSTRUCTION AND ERECTION OF PREFABRICATED PIER AND SUPERSTRUCTURE UNITS REQUIRED BY THIS PROJECT.

SHOP DRAWINGS, FOR APPROVAL BY THE ENGINEER, SHALL BE PROVIDED WHICH DETAIL THE METHOD OF FABRICATION AND SUPPORT AT THE PRECAST CONCRETE MANUFACTURING PLANT. SHOP DRAWING SHALL INCLUDE DETAILS OF ANY INSERTS REQUIRED FOR ERECTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TRANSPORTATION AND ERECTION PLAN FOR THE PREFABRICATED UNITS TO THE ENGINEER FOR APPROVAL.

SHOP DRAWINGS FOR TEMPORARY SUPPORT OF THE PREFABRICATED PIER UNITS REQUIRED DURING ERECTION AND CASTING OF THE CLOSURE POUR SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL. SUBMISSION SHALL MEET THE REQUIREMENTS OF 703.16 OF THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STRUCTURAL GENERAL NOTES.

EXISTING REINFORCING STEEL

THE COST OF CLEANING AND BENDING EXISTING REINFORCING STEEL TO BE USED FOR BONDING WITH NEW WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR "DEMOLITION". BROKEN OR OTHERWISE UNSUITABLE REINFORCING STEEL SHALL BE REPLACED WITH DRILLED AND GROUTED REINFORCEMENT OF EQUAL OR GREATER SIZE. PRIOR TO ANY REPLACEMENT WORK, DETAILS OF REPLACEMENT WORK SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL.

REINFORCING STEEL

AASHTO M31, ASTM A615, GRADE 60.

ALL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH 704.09 OF THE STANDARD SPECIFICATIONS, EXCEPT AS FOLLOWS:

REINFORCING STEEL THAT IS ENTIRELY CAST INTO THE FOOTING OF THE PIER.

REINFORCING STEEL THAT IS CAST INTO FOOTING AND EXTENDS INTO THE MEDIAN BARRIER AND PIER.

REINFORCING STEEL EXEMPTED BY THE ENGINEER.

AT MECHANICAL SPLICES OF REINFORCING BARS, A FULL MECHANICAL CONNECTION SHALL DEVELOP IN TENSION OR COMPRESSION, AS REQUIRED, AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. THE ALLOWABLE SLIP SHALL NOT EXCEED 0.0100 INCH MAXIMUM AS DETERMINED BY CALIFORNIA TEST NO. 670. THE ULTIMATE TENSILE STRENGTH OF THE MECHANICAL COUPLER SYSTEM SHALL BE AT LEAST 90 PERCENT OF THE ULTIMATE TENSILE STRENGTH OF THE BAR AS DETERMINED BY CALIFORNIA TEST NO. 670. THE FATIGUE RESISTANCE ALLOWABLE SLIP FOR 10,000 CYCLES, AS DETERMINED BY CALIFORNIA TEST NO. 670 WITH A STRESS RANGE FROM +25 KIPS PER SQUARE INCH TO -25 KIPS PER SQUARE INCH, SHALL NOT EXCEED 0.05 INCH MAXIMUM.

PROVIDE EPOXY COATING FOR MECHANICAL SPLICE SYSTEMS ACCORDING TO APPLICABLE PORTIONS OF AASHTO M284.

THE CONTRACTOR SHALL CERTIFY THE MECHANICAL SPLICE SYSTEM IN ACCORDANCE WITH 106.03 OF THE STANDARD SPECIFICATIONS.

REINFORCED CONCRETE

ALL WORK SHALL SHALL BE DONE IN ACCORDANCE WITH 703 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED OTHERWISE.

MINIMUM CONCRETE COVER (UNLESS OTHERWISE NOTED):

- TOP OF BRIDGE DECK SLAB - 2"
- BOTTOM OF BRIDGE DECK SLAB - 1 1/2"
- TOP OF PIER - 3"
- BOTTOM AND SIDES OF FOOTING - 3"
- ALL OTHER LOCATIONS - 2" (UNLESS OTHERWISE NOTED)

CONCRETE SHALL BE LIGHTWEIGHT CONCRETE FOR PREFABRICATED SUPERSTRUCTURE DECK SLABS AND CAST-IN-PLACE DECK SLABS. ALL OTHER CONCRETE SHALL BE STANDARD NORMAL WEIGHT CONCRETE.

LIGHTWEIGHT CONCRETE SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON PCC MIX DESIGN FOR CLASS H CONCRETE WITH THE EXCEPTION OF THE MINIMUM 28-DAY COMPRESSIVE STRENGTH. MINIMUM COMPRESSIVE STRENGTH OF LIGHTWEIGHT CONCRETE AT 28 DAYS SHALL BE 4500 PSI WHICH SHALL SUPERSEDE THE REQUIREMENT IN THE STANDARD SPECIFICATIONS. LIGHTWEIGHT CONCRETE SHALL MEET THE LOW PERMEABILITY REQUIREMENTS OF 817.05 OF THE STANDARD SPECIFICATIONS.

NORMAL WEIGHT CONCRETE SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON PCC MIX DESIGN FOR CLASS B CONCRETE. MINIMUM COMPRESSIVE STRENGTH OF NORMAL WEIGHT CONCRETE AT 28 DAYS SHALL BE 4500 PSI.

CONSTRUCTION JOINTS SHALL BE MADE ONLY WHERE SHOWN ON THE PLANS. ADDITIONAL JOINTS SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.

EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" X 3/4", EXCEPT AS NOTED OTHERWISE.

GROUTED KEYS

GROUT USED FOR KEYS BETWEEN PRECAST SUPERSTRUCTURE UNITS SHALL MEET REQUIREMENTS OF 806.05(E) OF THE STANDARD SPECIFICATIONS. THE COST OF THE GROUTED KEYS (MATERIALS, LABOR, ETC.) SHALL BE INCLUDED IN THE ITEM FOR LIGHTWEIGHT SUPERSTRUCTURE CONCRETE.

PATCHING MATERIALS

ALL PATCHING MATERIALS REQUIRED FOR USE IN CONCRETE REPAIR SHALL BE FREE OF CHLORIDES.

WATERPROOFING MEMBRANE AND OVERLAY FOR CONCRETE

APPLY WATERPROOFING MEMBRANE AND ASPHALT OVERLAY IN ACCORDANCE WITH SPECIAL PROVISION 795 WATERPROOFING.

DRILLING HOLES IN CONCRETE

THE COST OF DRILLING HOLES IN CONCRETE AND GROUTING OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE CONCRETE ITEM. WHERE DRILLING AND GROUTING IS DONE FOR THE ATTACHMENT OF RAILINGS OR OTHER DEVICES, THE COST SHALL BE PART OF THE ITEM TO BE ATTACHED.

STAY-IN-PLACE FORMS

STAY-IN-PLACE FORMS WILL NOT BE PERMITTED ON THIS PROJECT.

DIMENSIONS

ALL STRUCTURE DIMENSIONS ARE BASED ON A NORMAL TEMPERATURE OF 70°F. ALL PLAN DIMENSIONS ARE HORIZONTAL UNLESS OTHERWISE INDICATED.

VERIFICATION OF EXISTING DIMENSIONS AND ELEVATIONS

PRIOR TO CONSTRUCTION AND PREPARATION OF SHOP DRAWINGS, THE CONTRACTOR SHALL CHECK THE DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE. IF THESE DIMENSIONS AND ELEVATIONS DO NOT AGREE WITH THOSE SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE DIMENSIONS AND PROFILE GRADES SHOWN ON THE CONTRACT PLANS TO INSURE THAT THE NEW CONSTRUCTION WILL PROPERLY FIT ONTO THE EXISTING STRUCTURE.

TEMPORARY SUPPORT DURING CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, ERECTION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY STRUCTURES REQUIRED FOR THIS WORK. ALL TEMPORARY SUPPORT SYSTEMS, INCLUDING FALSEWORK, PROTECTION SHIELDS AND OTHER TEMPORARY STRUCTURES SHALL MEET THE REQUIREMENTS OF 703.16, FALSEWORK AND CENTERING.

PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP/WORKING DRAWINGS, DESIGN CALCULATIONS AND ERECTION METHODS FOR ALL TEMPORARY SUPPORT SYSTEMS, DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, TO THE ENGINEER FOR REVIEW AND COMMENTS. INCLUDED IN THE CONTRACTOR'S SUBMITTALS SHALL BE ADEQUATE DRAWINGS AND PROCEDURES FOR SAFELY EXECUTING THE TRANSITIONS OF TEMPORARY SUPPORT SYSTEMS BETWEEN PHASES OF WORK. AFTER ERECTING THE SYSTEM AT A NEW LOCATION, THE PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE TEMPORARY SUPPORT SYSTEM HAS BEEN PROPERLY CONSTRUCTED.

BONDING NEW CONCRETE TO OLD CONCRETE

ALL NEW CONCRETE SHALL BE BONDED TO EXISTING CONCRETE WITH AN EPOXY RESIN ADHESIVE SYSTEM. THE SURFACES OF EXISTING CONCRETE WHICH ARE TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

STONE MASONRY FACING

THE REPLACEMENT, RESETTING AND CONSTRUCTION OF STONE MASONRY FACING SHALL BE CONDUCTED ACCORDING TO THE REQUIREMENTS OF 708 OF THE STANDARD SPECIFICATIONS AND SHALL MATCH EXISTING ADJACENT MASONRY TO THE SATISFACTION OF THE ENGINEER.

ARCHITECTURAL TREATMENT

ARCHITECTURAL TREATMENT SHOWN ON FASCIA SIDE OF EXTERIOR PARAPETS ARE FOR BIDDING PURPOSES ONLY. PARAPET ARCHITECTURAL TREATMENT SHALL MATCH EXISTING STONE MASONRY FACING AT THE ABUTMENTS IN PATTERN AND COLOR. A SAMPLE PANEL, 2'-0"x2'-0" AND A MAXIMUM OF 2" THICK, SHALL BE PREPARED AND DELIVERED TO THE ENGINEER FOR APPROVAL. APPROVAL OF THE SAMPLE PANEL BY THE ENGINEER IS REQUIRED BEFORE ANY WORK INVOLVING THE ARCHITECTURAL TREATMENT BEGINS.

SAMPLE PANEL, 2'-0"x2'-0" AND A MAXIMUM OF 2" THICK, FOR ARCHITECTURAL TREATMENT SHOWN ON PIER ELEVATIONS SHALL BE PREPARED AND DELIVERED TO THE ENGINEER FOR APPROVAL. NO STAINING SHALL BE REQUIRED WITH THE PIER ARCHITECTURAL TREATMENT. APPROVAL OF THE SAMPLE PANEL BY THE ENGINEER IS REQUIRED BEFORE ANY WORK INVOLVING THE ARCHITECTURAL TREATMENT BEGINS.

GEOFOAM

RIGID CELLULAR POLYSTYRENE USED AS GEOFOAM SHALL MEET THE REQUIREMENTS OF ASTM D6817. THE MAXIMUM ALLOWABLE GEOFOAM UNIT WEIGHT SHALL BE 5 PCF. THE COST OF THE GEOFOAM (MATERIALS, LABOR, ETC.) SHALL BE INCLUDED IN THE ITEM FOR NORMAL WEIGHT SUPERSTRUCTURE CONCRETE.

UTILITIES

PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR MUST NOTIFY "MISS UTILITY" 48 HOURS IN ADVANCE FOR THE EXACT LOCATION OF UTILITIES LOCATED ON THE SITE.

ALL EXISTING UTILITIES ON THE SITE, IF AFFECTED BY THE CONSTRUCTION, MUST BE PROTECTED AND TEMPORARILY SUPPORTED DURING CONSTRUCTION. ANY DAMAGE INCURRED TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY RELOCATION, IF NECESSARY, SHALL BE COORDINATED WITH THE AGENCIES INVOLVED.

THE FOLLOWING COMPANIES HAVE UTILITIES WITHIN THE AREA OF CONTRACT LIMITS:

1. POTOMAC ELECTRIC AND POWER COMPANY
2. WATER AND SEWER UTILITY ADMINISTRATION OF THE DISTRICT OF COLUMBIA
3. VERIZON TELEPHONE COMPANY
4. WASHINGTON GAS COMPANY

THE EXISTENCE OF OTHER UTILITIES IS NOT KNOWN. FOR FULL INFORMATION REGARDING UTILITY PROTECTION, SEE 107.16, UTILITY PROTECTIVE ALERT IN THE STANDARD SPECIFICATIONS.

REMOVAL OF EXISTING BRIDGE / PROTECTION SHIELD

WHEN PORTIONS OF EXISTING BRIDGE ARE REMOVED, CARE SHALL BE TAKEN THAT THE REMAINING PARTS OF THE STRUCTURE ARE NOT DAMAGED. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE STRUCTURE DURING CONSTRUCTION/DEMOLITION.

WHILE THE EXISTING SUPERSTRUCTURE IS BEING REMOVED DURING NIGHTTIME OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ROADWAY BENEATH SUCH THAT IT CAN BE OPENED TO DAYTIME TRAFFIC. WHILE DECK AND STRUCTURAL MEMBERS SHOWN OR NOTED ARE REMOVED, NO DEBRIS WILL BE ALLOWED TO ACCUMULATE UNDER THE BRIDGE.

WHILE THE PREFABRICATED SUPERSTRUCTURE UNITS ARE BEING INSTALLED DURING NIGHTTIME OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ROADWAY BENEATH SUCH THAT IT CAN BE OPENED TO DAYTIME TRAFFIC. NO DEBRIS WILL BE ALLOWED TO ACCUMULATE UNDER THE BRIDGE.

WHILE CONSTRUCTING THE CAST-IN-PLACE PORTIONS OF THE SUPERSTRUCTURE, THE CONTRACTOR SHALL FURNISH AND INSTALL A DEBRIS PROTECTION SHIELD BENEATH THE BRIDGE AS PER 626 OF THE STANDARD SPECIFICATIONS AND APPROVED BY THE ENGINEER. MINIMUM VERTICAL CLEARANCE ALONG KENILWORTH AVENUE SHALL BE 14'-0".

WHILE CONSTRUCTING ABUTMENT AND RETAINING WALL MODIFICATIONS, THE CONTRACTOR SHALL FURNISH AND INSTALL A DEBRIS PROTECTION SHIELD ALONG THE EXISTING ABUTMENTS AND RETAINING WALLS AS PER 626 OF THE STANDARD SPECIFICATIONS AND APPROVED BY THE ENGINEER.

ANCHOR BOLT HOLES


HOLES FOR ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF 703.20(B) OF THE STANDARD SPECIFICATIONS. DRILLED ANCHOR BOLT HOLES SHALL ONLY BE ALLOWED AT THE ABUTMENTS. TEMPLATES SHALL BE USED FOR DRILLING HOLES AND INSTALLING ANCHOR BOLTS. ANCHOR BOLT HOLES SHALL BE CAST INTO THE PREFABRICATED PIER UNITS. UNFILLED HOLES SHALL BE PROTECTED AGAINST RUPTURE IN FREEZING WEATHER. EPOXY MORTAR SHALL BE USED TO FILL HOLES AROUND ANCHOR BOLTS.

BRIDGE LIGHTING AND CONDUIT DETAILS

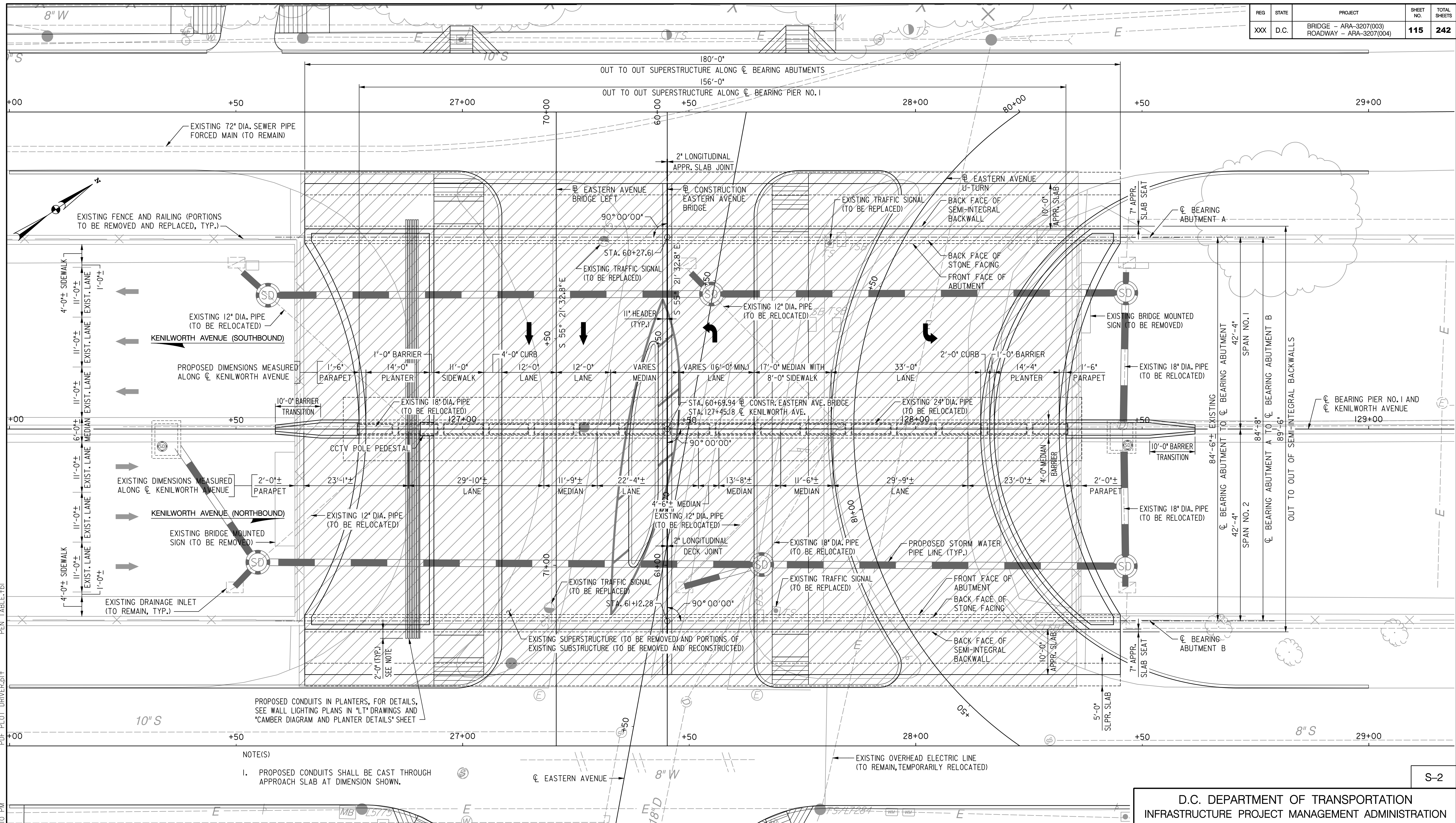
FOR BRIDGE LIGHTING AND CONDUIT DETAILS, SEE "LT" DRAWINGS. DETAILS FOR CONDUIT CAST THROUGH APPROACH SLAB AND SEMI-INTEGRAL BACKWALL ARE FOR CONTRACTOR BIDDING/INFORMATION PURPOSES. THE CONTRACTOR SHALL SUBMIT DETAILS FOR CASTING CONDUIT THROUGH THE APPROACH SLAB AND SEMI-INTEGRAL BACKWALL TO THE ENGINEER FOR APPROVAL. THE CONDUITS SHALL PASS THROUGH THE APPROACH SLAB AT THE DIMENSION SHOWN ON THE "GENERAL PLAN" SHEET.

S-1

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. _____ MC DESIGNED BY _____ MC CHECKED BY _____ BP DRAWN BY _____ MC PROJECT MGR. _____ BP
STRUCTURAL GENERAL NOTES	DIVISION CHIEF DATE _____ 05 / 01 / 2009 FILE _____

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NOTE(S)
 1. PROPOSED CONDUITS SHALL BE CAST THROUGH APPROACH SLAB AT DIMENSION SHOWN.

GENERAL PLAN
 SCALE: 1" = 10'-0"

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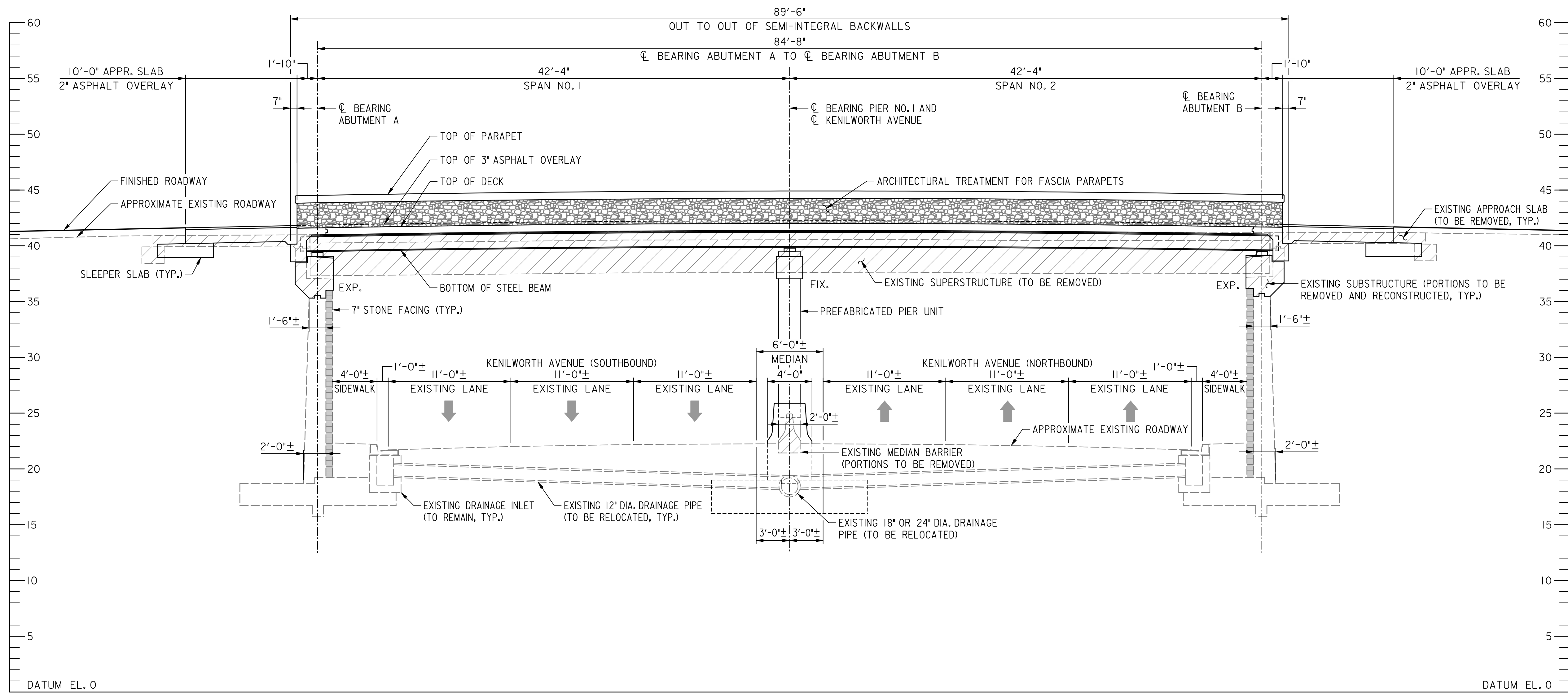
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.**

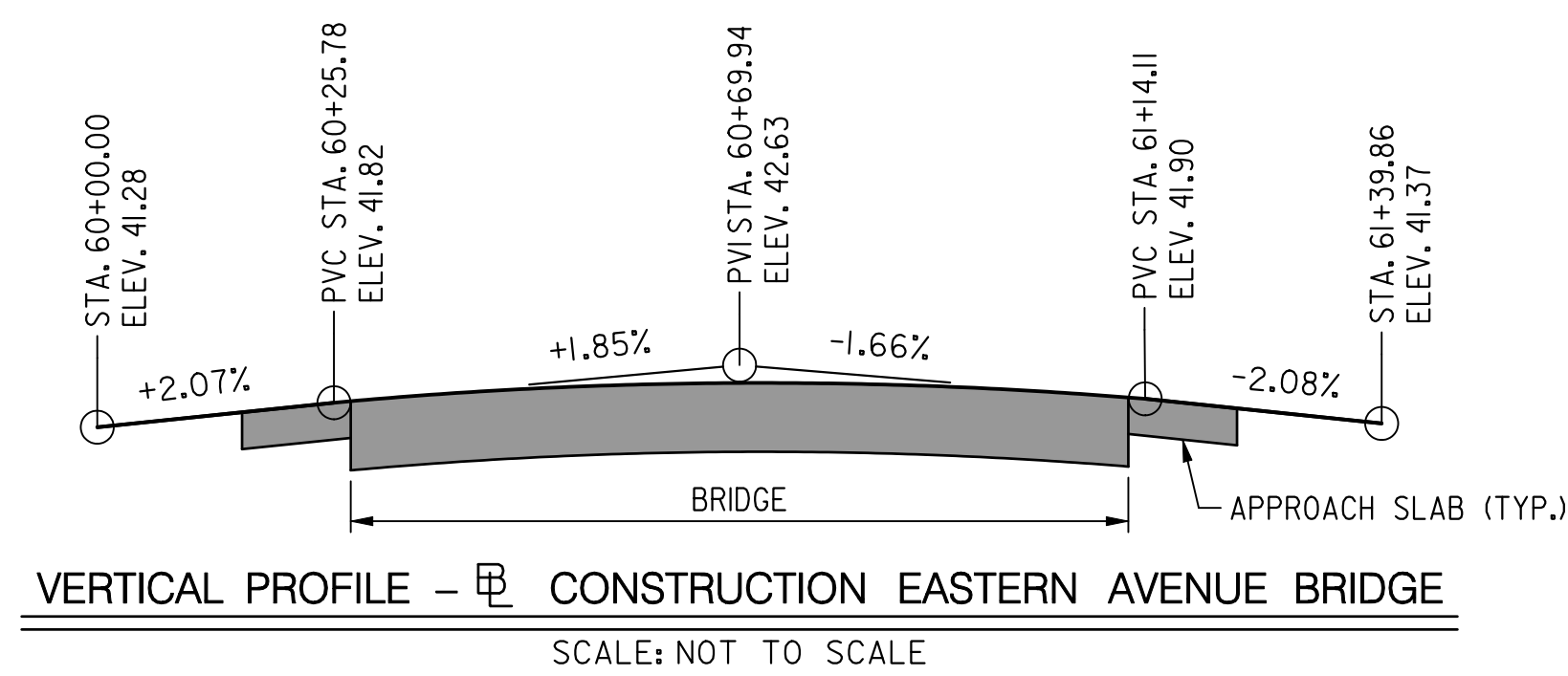
GENERAL PLAN

PROJECT ENG. MC	DESIGNED BY MC	DRAWN BY MC	PROJECT MGR. BP
DIVISION CHIEF			
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SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



S-3

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

SOUTH ELEVATION

PROJECT ENG.	MC
DESIGNED BY	MC
CHECKED BY	BP
DRAWN BY	MC
PROJECT MGR.	BP

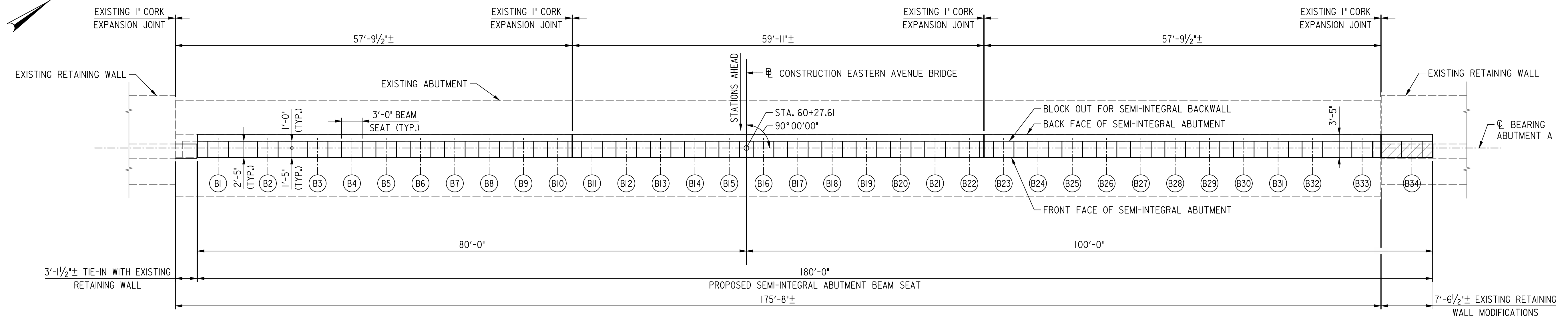
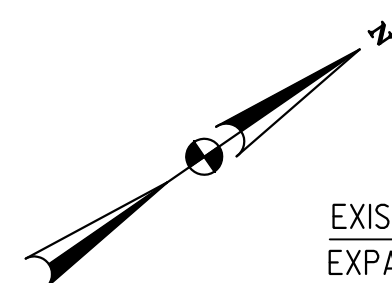
DIVISION CHIEF

DATE: 03/31/2009
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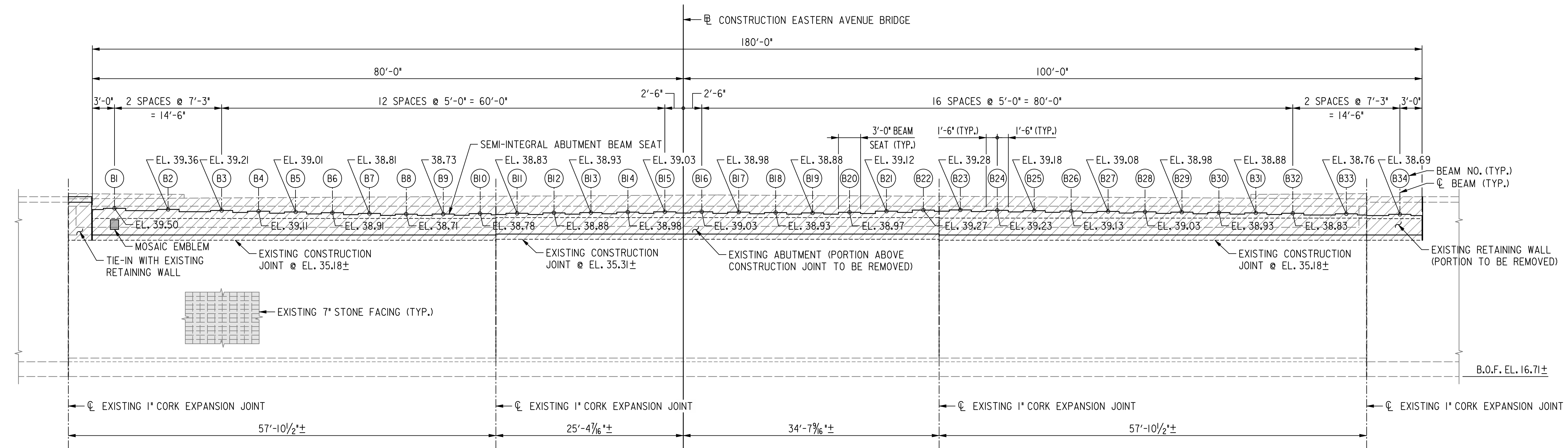
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PLAN - ABUTMENT A
SCALE: 1/8" = 1'-0"



ELEVATION - ABUTMENT A
SCALE: 1/8" = 1'-0"

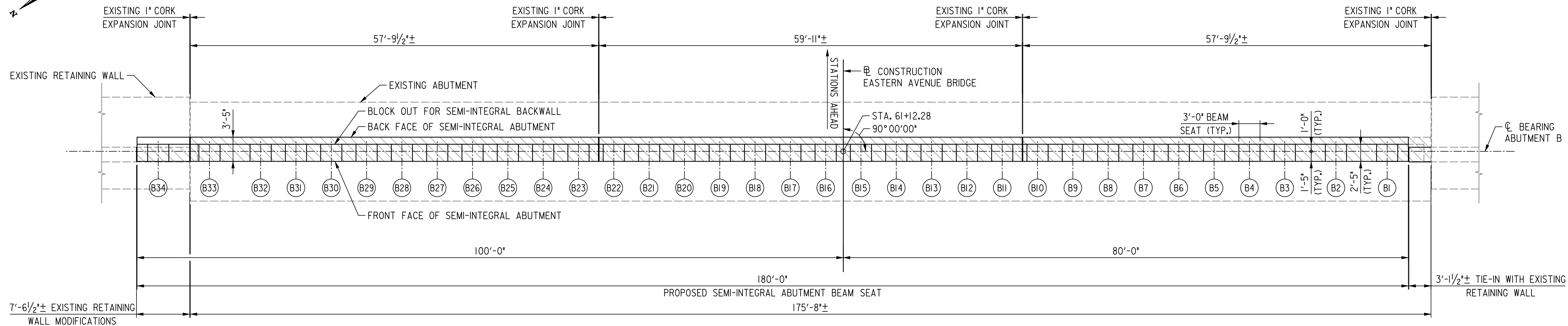
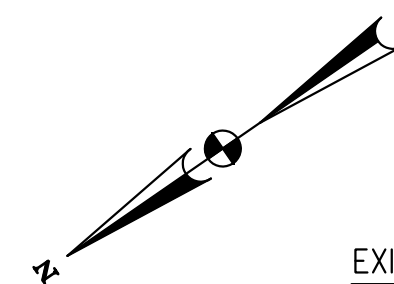
- NOTE(S):
1. THE EXISTING 1" CORK VERTICAL EXPANSION JOINTS SHALL BE CARRIED INTO THE PROPOSED ABUTMENT RECONSTRUCTION. FOR EXPANSION JOINT DETAILS, SEE DDOT STD. DWG. NO. 703.04. THE CORK JOINT FILLER SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 807.01(B).
 2. FOR MOSAIC EMBLEM DETAILS, SEE DDOT STD. DWG. NO. 703.07.

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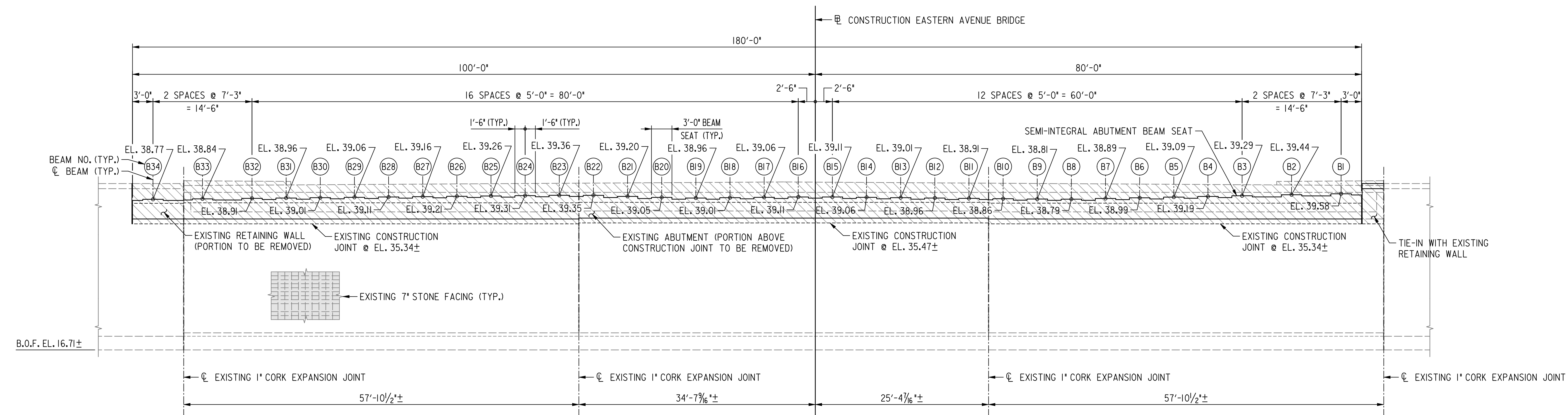
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
ABUTMENT A PLAN AND ELEVATION	
PROJECT ENG. <u>MC</u> DESIGNED BY <u>MC</u> CHECKED BY <u>BP</u> DRAWN BY <u>MC</u> PROJECT MGR. <u>BP</u>	DIVISION CHIEF DATE <u>03/31/2009</u> FILE _____

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			



PLAN - ABUTMENT B
SCALE: 1/8" = 1'-0"



ELEVATION - ABUTMENT B
SCALE: 1/8" = 1'-0"

NOTE(S):

- THE EXISTING 1" CORK VERTICAL EXPANSION JOINTS SHALL BE CARRIED INTO THE PROPOSED ABUTMENT RECONSTRUCTION. FOR EXPANSION JOINT DETAILS, SEE DDOT STD. DWG. NO. 703.04. THE CORK JOINT FILLER SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 807.01(B).

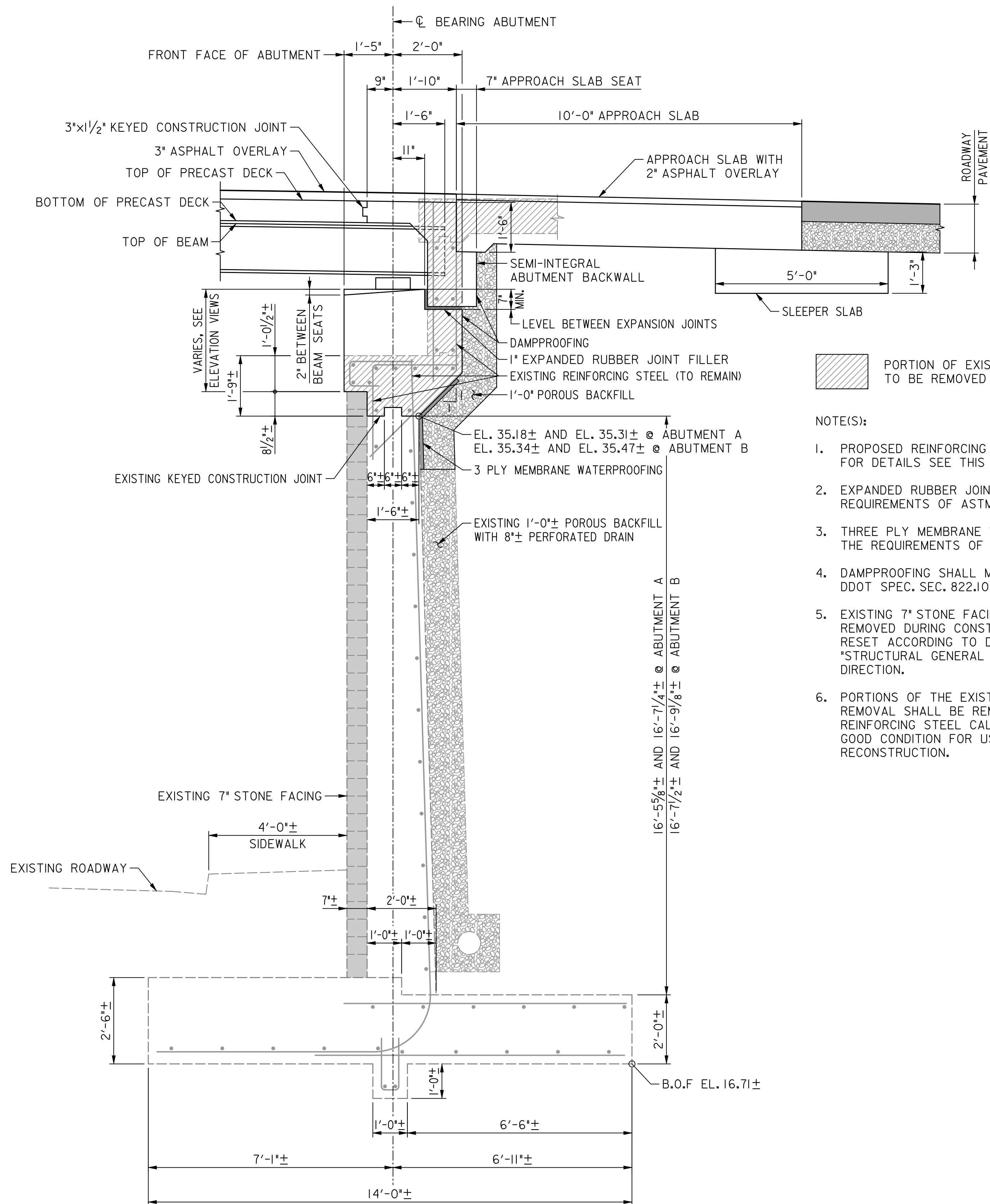
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
ABUTMENT B PLAN AND ELEVATION	PROJECT ENG. MC DESIGNED BY MC CHECKED BY BP DRAWN BY MC PROJECT MGR. BP DIVISION CHIEF DATE 03/31/2009 FILE

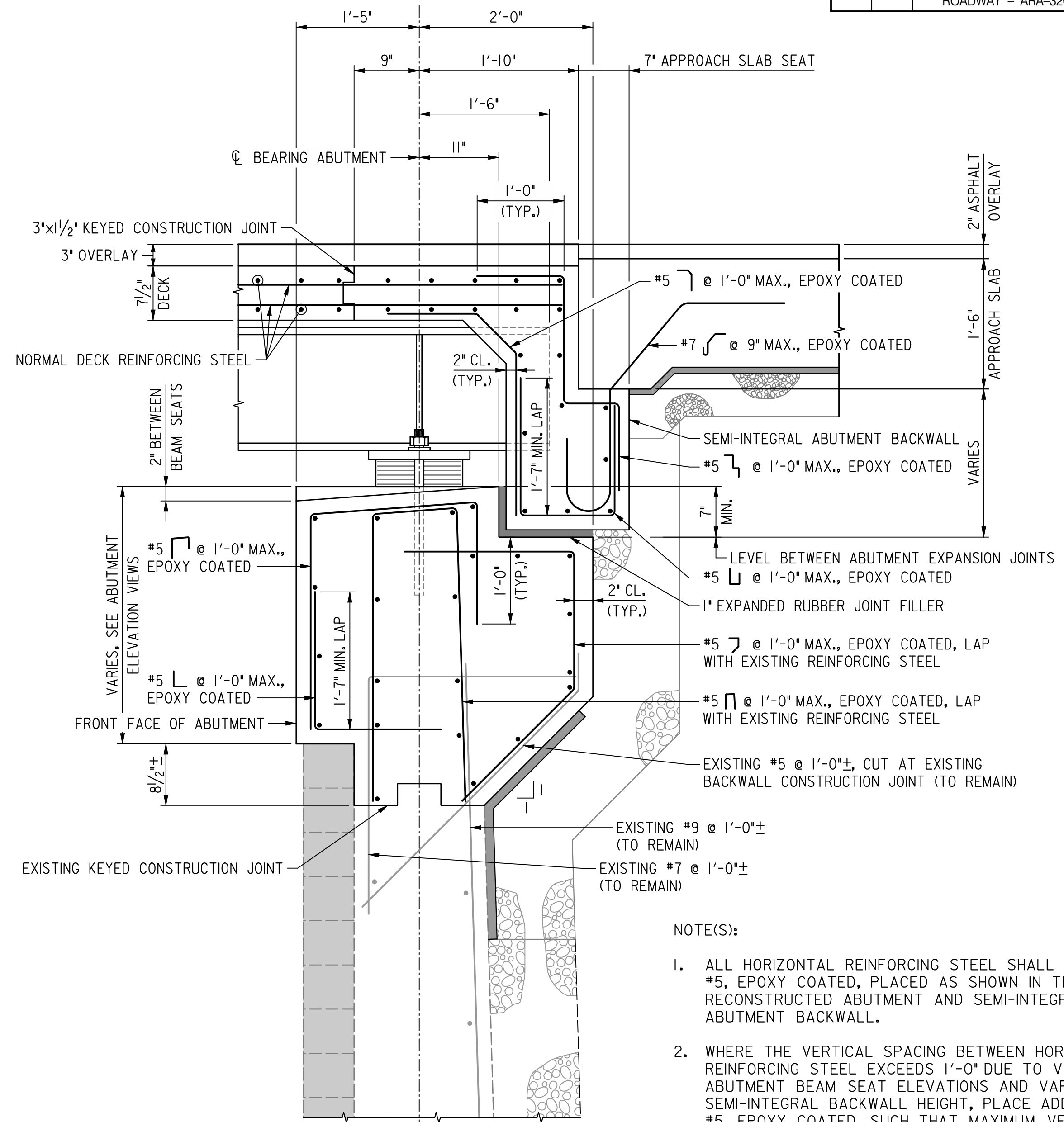
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			



PORTION OF EXISTING ABUTMENT TO BE REMOVED

- NOTE(S):
1. PROPOSED REINFORCING STEEL NOT SHOWN FOR CLARITY, FOR DETAILS SEE THIS SHEET.
 2. EXPANDED RUBBER JOINT FILLER SHALL MEET THE REQUIREMENTS OF ASTM D1056.
 3. THREE PLY MEMBRANE WATERPROOFING SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 615.
 4. DAMPPROOFING SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 822.10.
 5. EXISTING 7" STONE FACING IS TO REMAIN WITH STONE REMOVED DURING CONSTRUCTION TO BE REPLACED AND RESET ACCORDING TO DDOT SPECIFICATIONS. SEE "STRUCTURAL GENERAL NOTES" SHEET FOR ADDITIONAL DIRECTION.
 6. PORTIONS OF THE EXISTING ABUTMENT HATCHED FOR REMOVAL SHALL BE REMOVED SUCH THAT THE EXISTING REINFORCING STEEL CALLED OUT TO REMAIN IS LEFT IN GOOD CONDITION FOR USE IN THE PROPOSED ABUTMENT RECONSTRUCTION.



- NOTE(S):
1. ALL HORIZONTAL REINFORCING STEEL SHALL BE #5, EPOXY COATED, PLACED AS SHOWN IN THE RECONSTRUCTED ABUTMENT AND SEMI-INTEGRAL ABUTMENT BACKWALL.
 2. WHERE THE VERTICAL SPACING BETWEEN HORIZONTAL REINFORCING STEEL EXCEEDS 1'-0" DUE TO VARYING ABUTMENT BEAM SEAT ELEVATIONS AND VARYING SEMI-INTEGRAL BACKWALL HEIGHT, PLACE ADDITIONAL #5, EPOXY COATED, SUCH THAT MAXIMUM VERTICAL SPACING IS LESS THAN OR EQUAL TO 1'-0".
 3. APPROACH SLAB REINFORCING STEEL NOT SHOWN FOR CLARITY. FOR DETAILS, SEE "APPROACH SLAB AND CCTV POLE PEDESTAL DETAILS" SHEET.

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

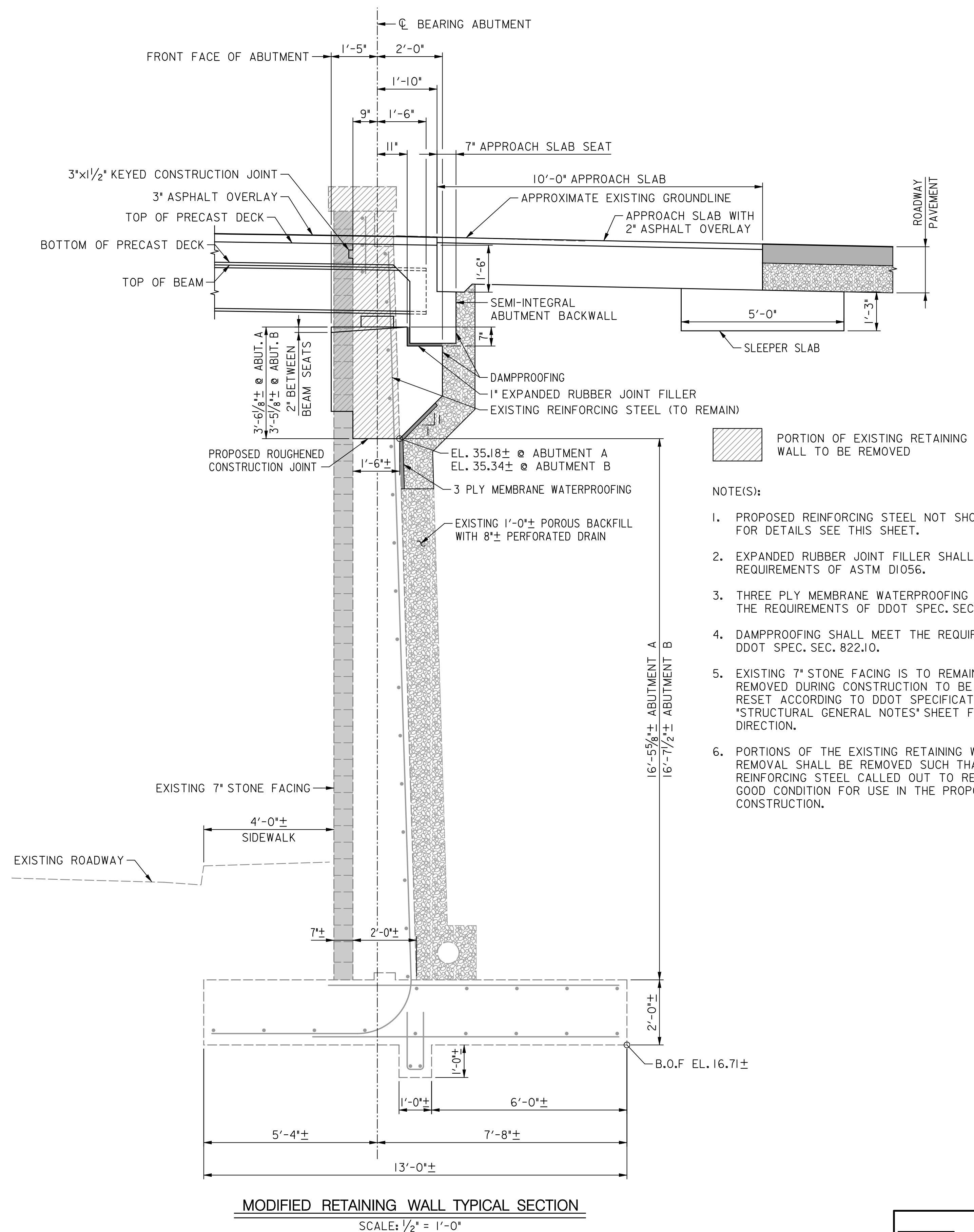
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ABUTMENT
TYPICAL SECTION

PROJECT ENG. _____ MC	DESIGNED BY _____ MC
CHECKED BY _____ BP	DRAWN BY _____ MC
PROJECT MGR. _____ BP	
DIVISION CHIEF	
DATE: 03/31/2009	
FILE: _____	

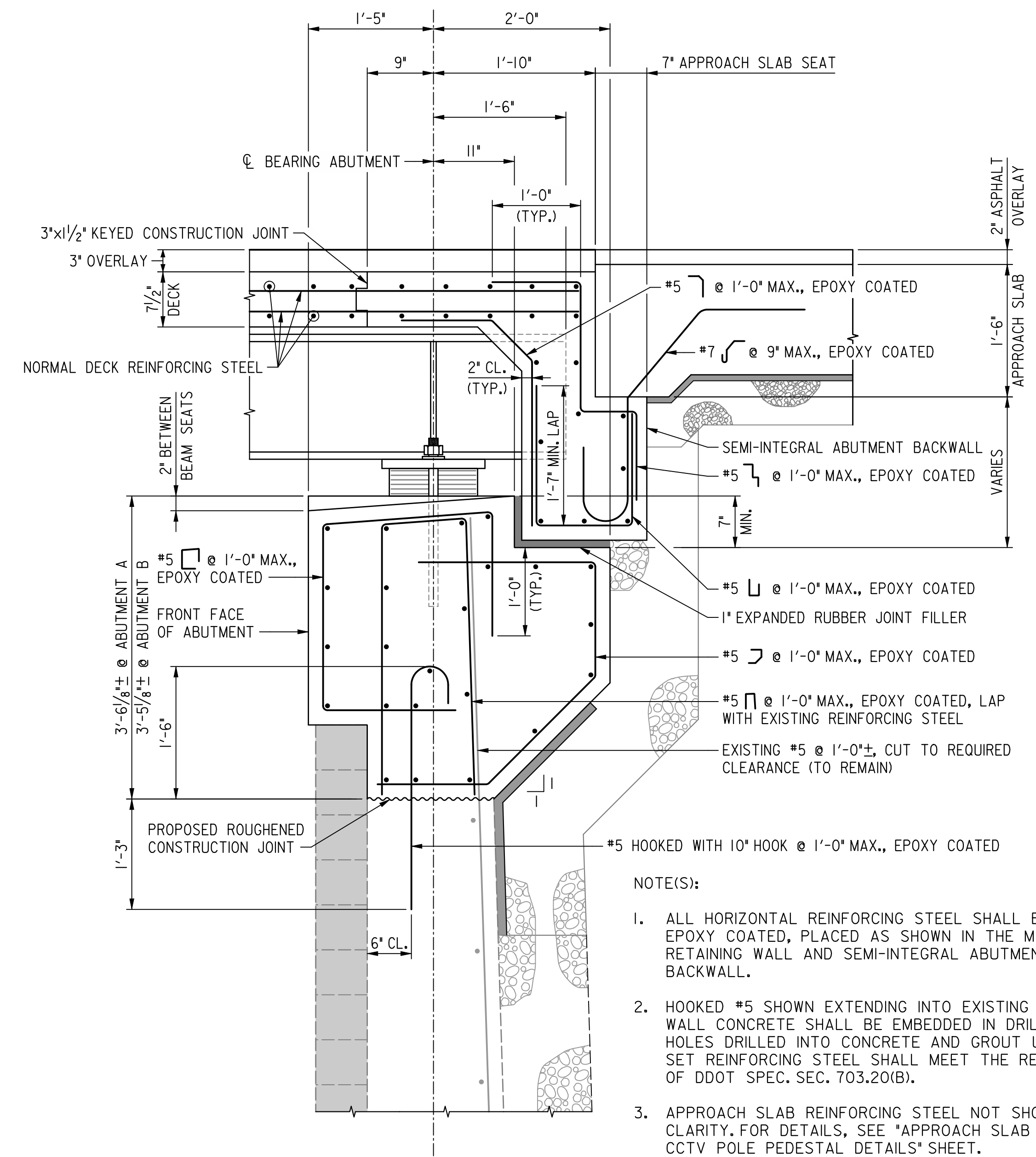
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MODIFIED RETAINING WALL TYPICAL SECTION
SCALE: 1/2" = 1'-0"

- NOTE(S):
1. PROPOSED REINFORCING STEEL NOT SHOWN FOR CLARITY, FOR DETAILS SEE THIS SHEET.
 2. EXPANDED RUBBER JOINT FILLER SHALL MEET THE REQUIREMENTS OF ASTM D1056.
 3. THREE PLY MEMBRANE WATERPROOFING SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 615.
 4. DAMPPROOFING SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 822.10.
 5. EXISTING 7" STONE FACING IS TO REMAIN WITH STONE REMOVED DURING CONSTRUCTION TO BE REPLACED AND RESET ACCORDING TO DDOT SPECIFICATIONS. SEE "STRUCTURAL GENERAL NOTES" SHEET FOR ADDITIONAL DIRECTION.
 6. PORTIONS OF THE EXISTING RETAINING WALL HATCHED FOR REMOVAL SHALL BE REMOVED SUCH THAT THE EXISTING REINFORCING STEEL CALLED OUT TO REMAIN IS LEFT IN GOOD CONDITION FOR USE IN THE PROPOSED ABUTMENT CONSTRUCTION.



SECTION - MODIFIED RETAINING WALL REINFORCING STEEL
SCALE: 1" = 1'-0"

- NOTE(S):
1. ALL HORIZONTAL REINFORCING STEEL SHALL BE #5, EPOXY COATED, PLACED AS SHOWN IN THE MODIFIED RETAINING WALL AND SEMI-INTEGRAL ABUTMENT BACKWALL.
 2. HOOKED #5 SHOWN EXTENDING INTO EXISTING RETAINING WALL CONCRETE SHALL BE EMBEDDED IN DRILLED HOLE. HOLES DRILLED INTO CONCRETE AND GROUT USED TO SET REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 703.20(B).
 3. APPROACH SLAB REINFORCING STEEL NOT SHOWN FOR CLARITY. FOR DETAILS, SEE "APPROACH SLAB AND CCTV POLE PEDESTAL DETAILS" SHEET.

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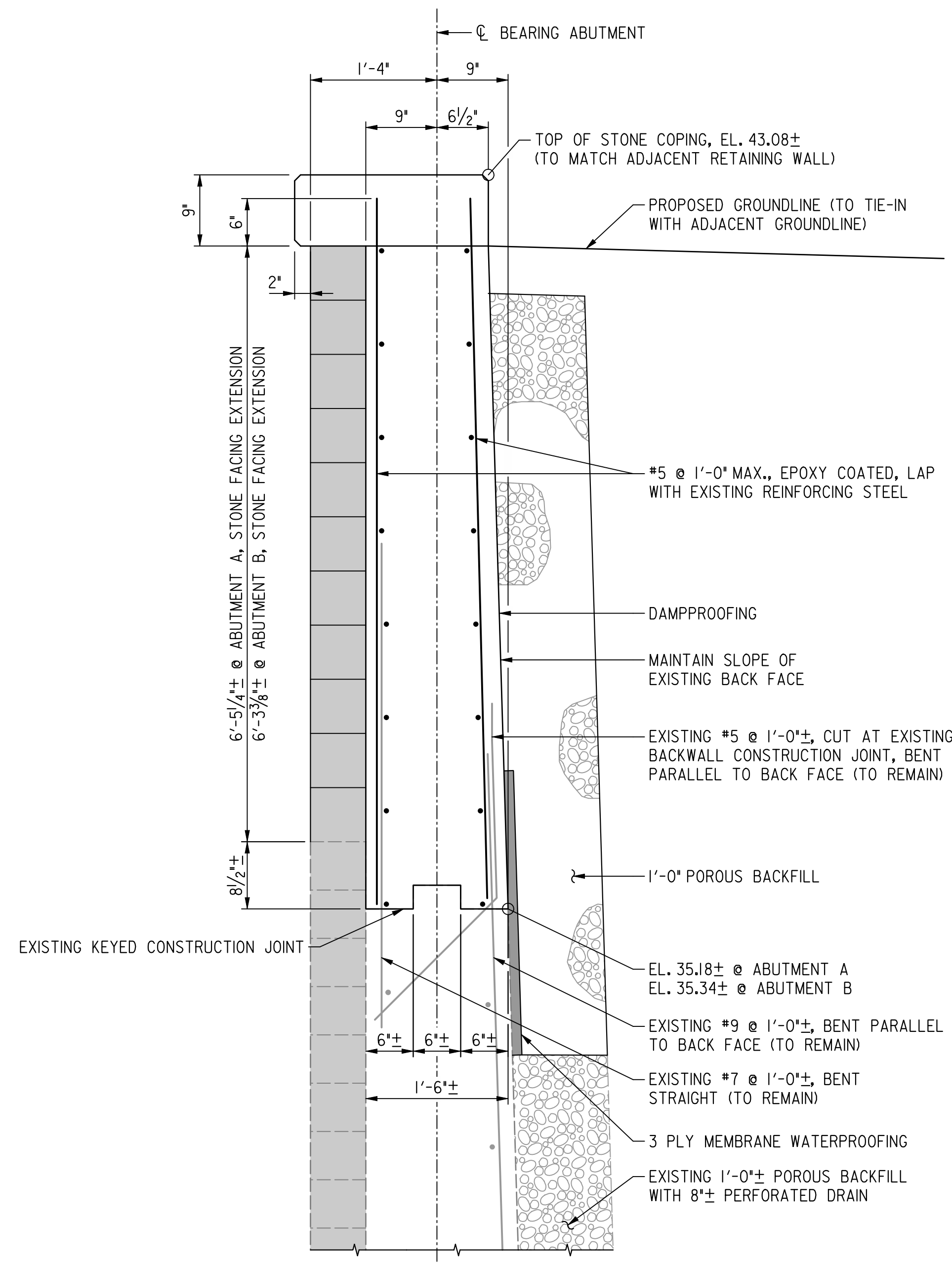
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PROJECT MANAGEMENT DIVISION

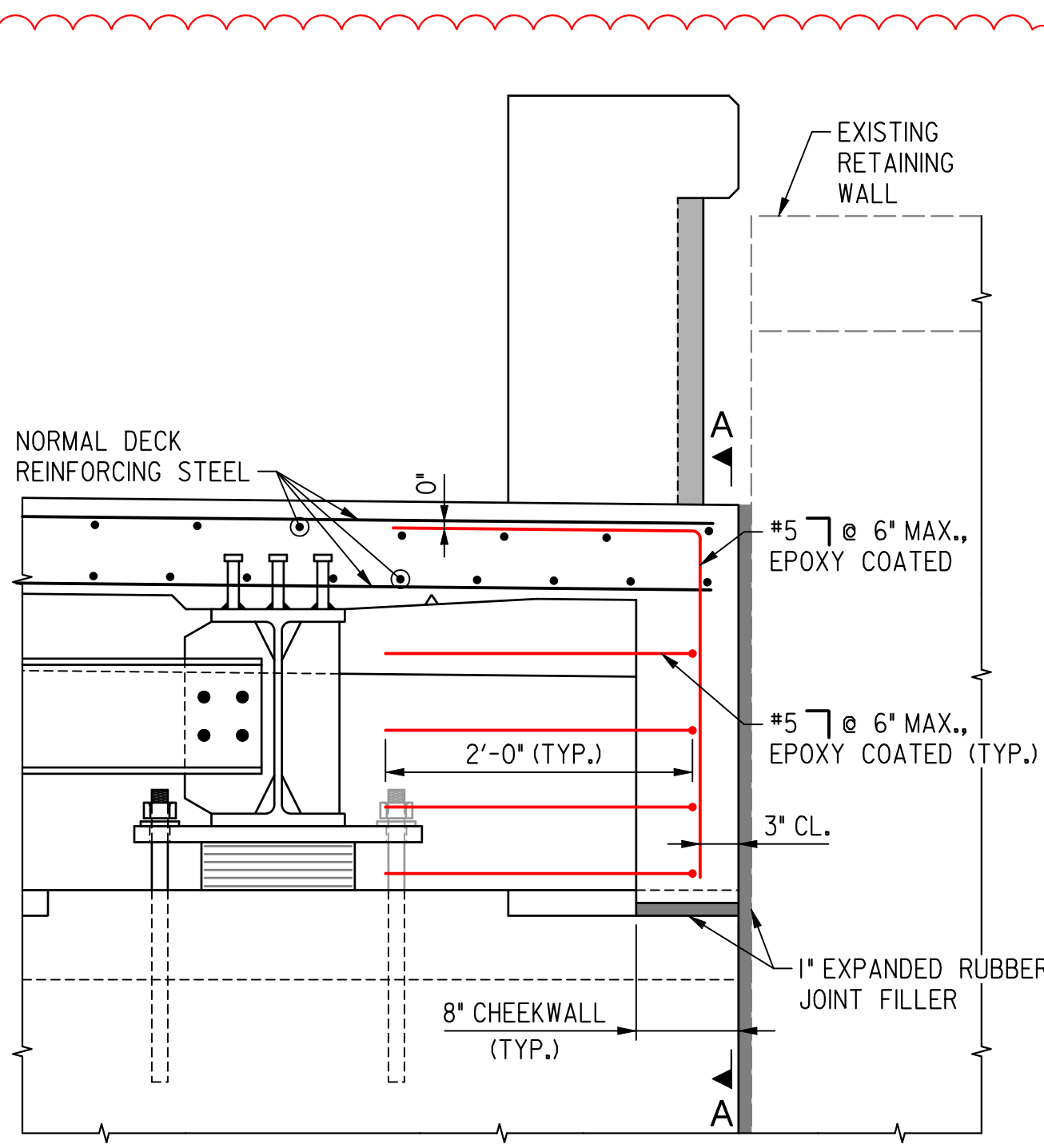
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EXISTING RETAINING WALL
MODIFICATION DETAILS

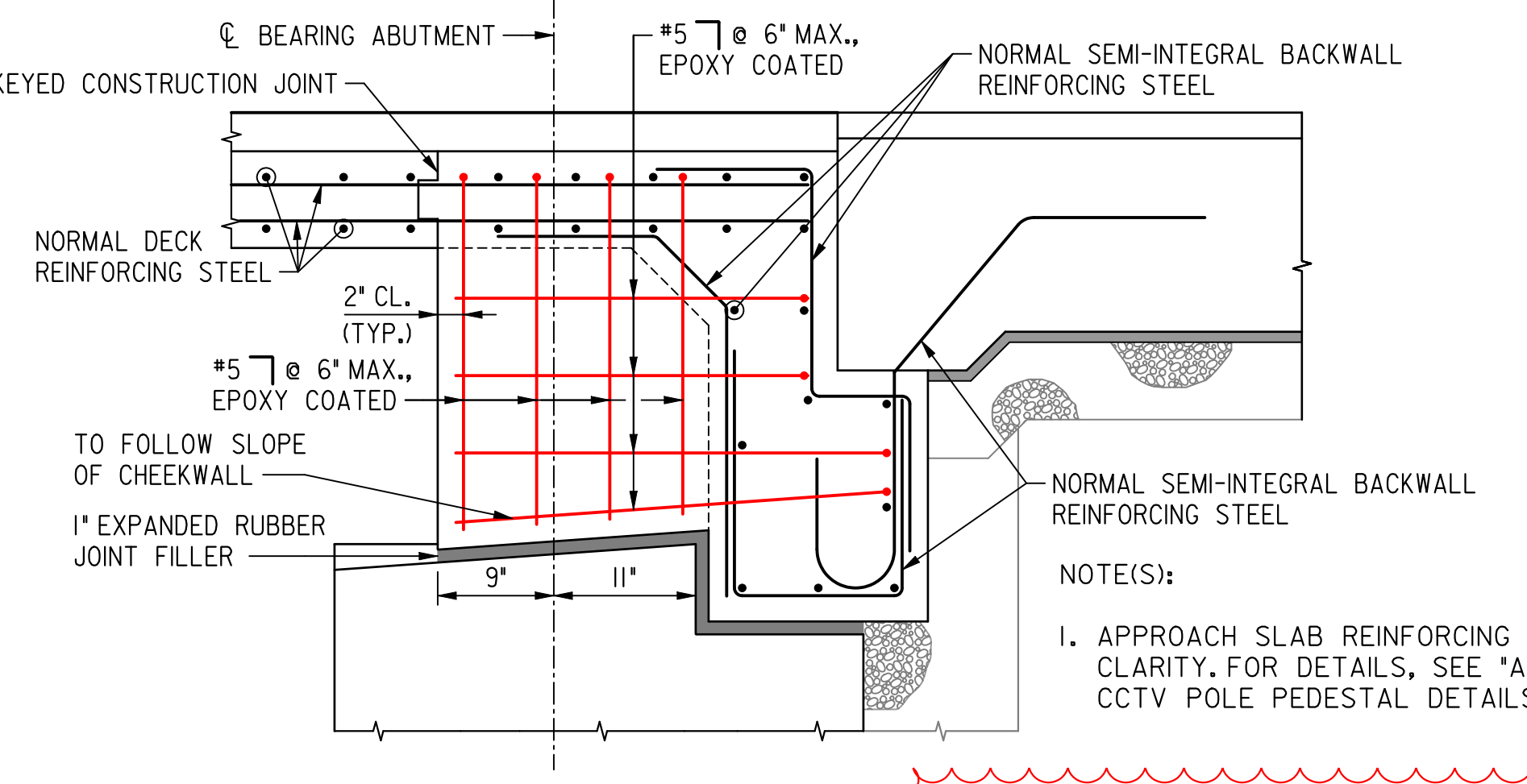
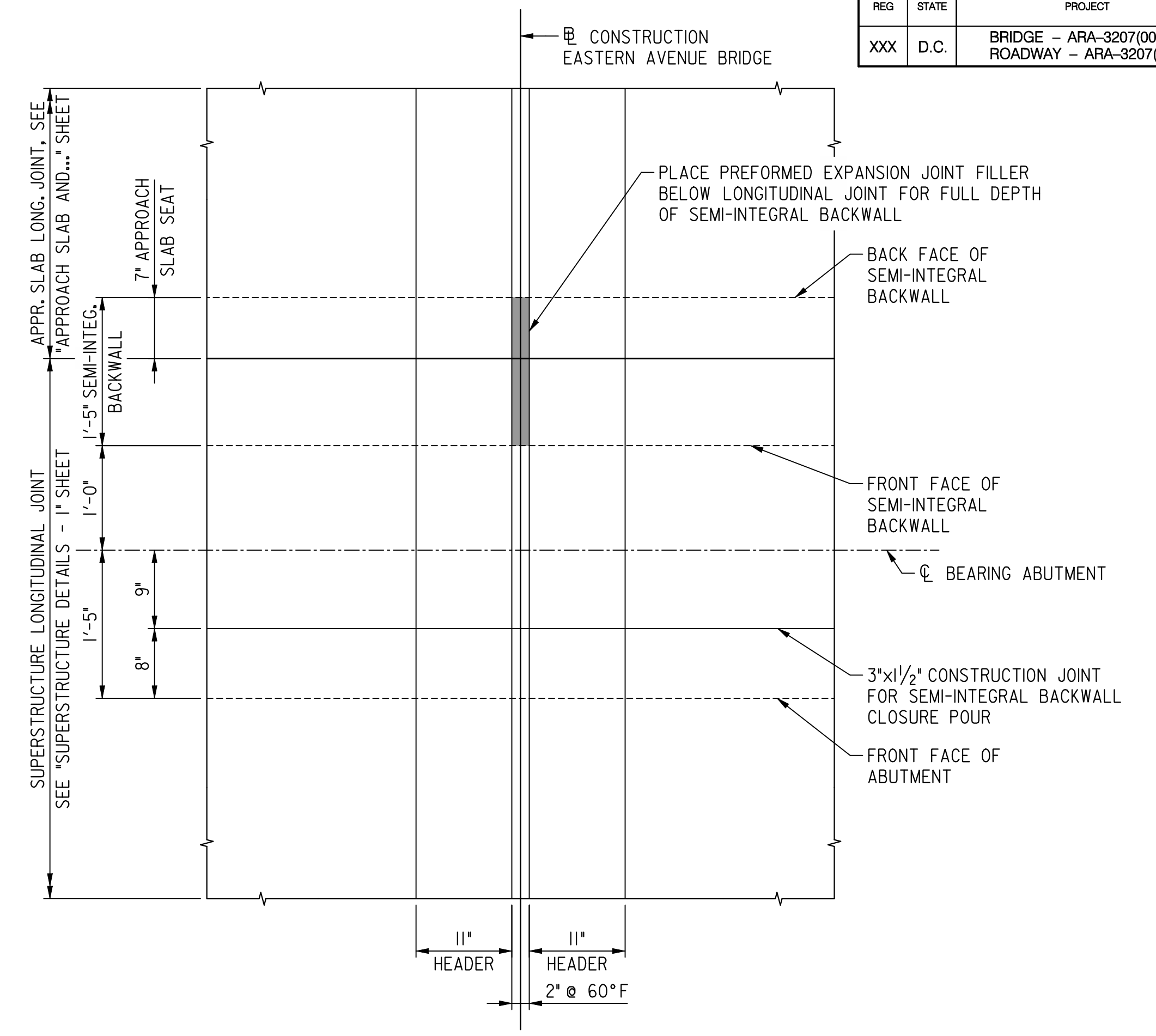
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DESIGNED BY MC	DATE 03/31/2009
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PROJECT MGR. BP	



- NOTE(S):
- ALL HORIZONTAL REINFORCING STEEL SHALL BE #5 @ 1'-0" MAX., EPOXY COATED, PLACED AS SHOWN.
 - PROPOSED STONE COPING SHALL MATCH THE EXISTING STONE COPING OF THE ADJACENT RETAINING WALL TO THE SATISFACTION OF THE ENGINEER.
 - DRILL HOLES THROUGH THE STONE COPING FOR EMBEDMENT OF VERTICAL REINFORCING STEEL. EMBED ANCHOR BARS PER DDOT SPEC. SEC. 822.08(B)(2)(c). THE TERM EXISTING PCC IN THE REFERENCED SPECIFICATION SHALL BE REPLACED WITH STONE COPING.
 - DRILLED HOLES IN STONE COPING SHALL HAVE 3/4" DIAMETER.
 - THREE PLY MEMBRANE WATERPROOFING SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 615.
 - DAMPPOOFING SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 822.10.
 - EXISTING 7" STONE FACING IS TO REMAIN AND SHALL BE EXTENDED WITH STONE REMOVED DURING CONSTRUCTION TO BE REPLACED AND RESET ACCORDING TO DDOT SPECIFICATIONS. SEE "STRUCTURAL GENERAL NOTES" SHEET FOR ADDITIONAL DIRECTION.
 - PORTIONS OF THE EXISTING ABUTMENT FOR REMOVAL SHALL BE REMOVED SUCH THAT THE EXISTING REINFORCING STEEL CALLED OUT TO REMAIN IS LEFT IN GOOD CONDITION FOR USE IN THE PROPOSED RETAINING WALL TIE-IN.



- NOTE(S):
- SEMI-INTEGRAL ABUTMENT BACKWALL REINFORCING STEEL NOT SHOWN FOR CLARITY. FOR DETAILS, SEE "ABUTMENT TYPICAL SECTION" SHEET.



- NOTE(S):
- APPROACH SLAB REINFORCING STEEL NOT SHOWN FOR CLARITY. FOR DETAILS, SEE "APPROACH SLAB AND CCTV POLE PEDESTAL DETAILS" SHEET.

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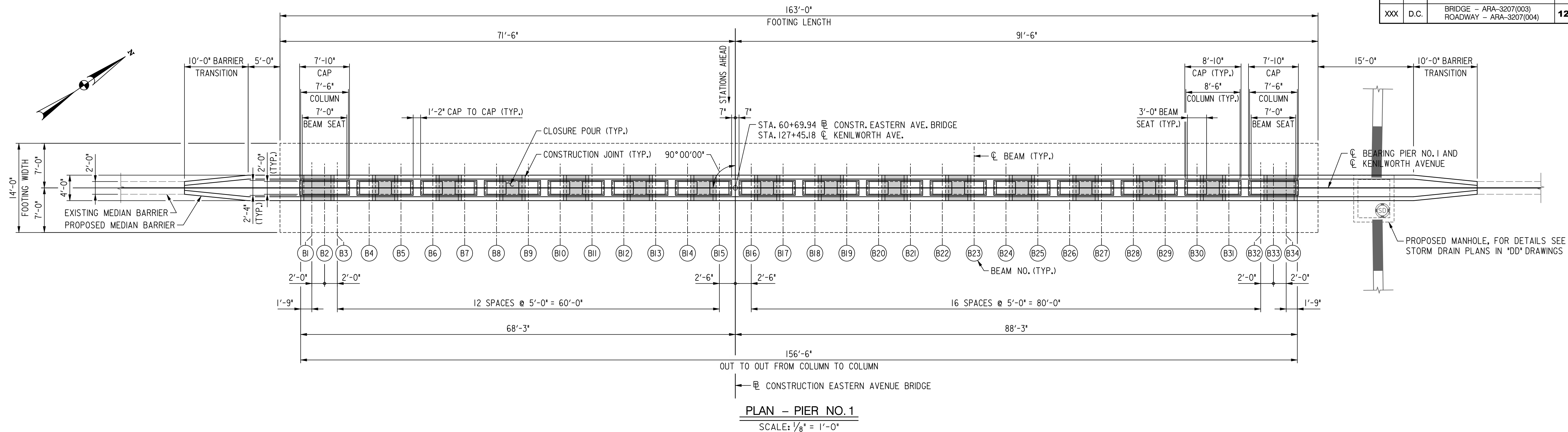
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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

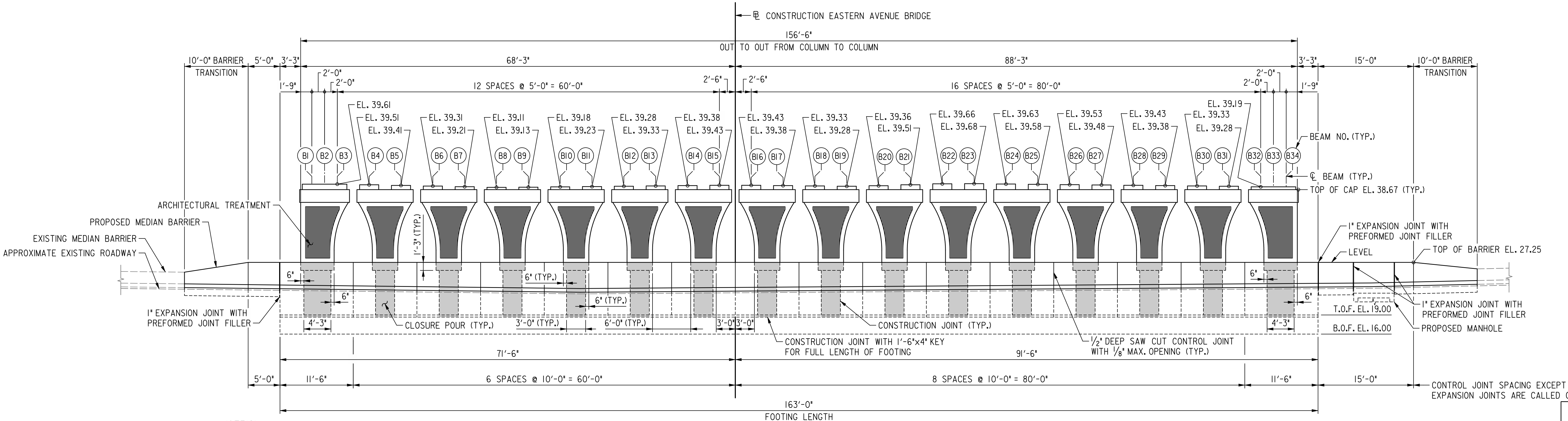
ABUTMENT DETAILS

PROJECT ENG. _____ MC	DESIGNED BY _____ MC
CHECKED BY _____ BP	DRAWN BY _____ MC
PROJECT MGR. _____ BP	DIVISION CHIEF _____
DATE _____ 05 / 01 / 2009	FILE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	122	242



PLAN - PIER NO. 1
SCALE: 1/8" = 1'-0"



ELEVATION - PIER NO. 1
SCALE: 1/8" = 1'-0"

- NOTE(S):
1. PREFORMED EXPANSION JOINT FILLER SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 807.01(B).
 2. THERE SHALL BE EXPANSION JOINTS IN THE MEDIAN BARRIER ON EITHER SIDE OF THE PROPOSED MANHOLE. COORDINATE JOINT LOCATIONS WITH STORM DRAIN PLANS IN "DD" DRAWINGS.
 2. THE FOOTING AND PORTIONS OF THE MEDIAN BARRIER ADJACENT TO THE CLOSURE POURS SHALL BE CAST-IN-PLACE.

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

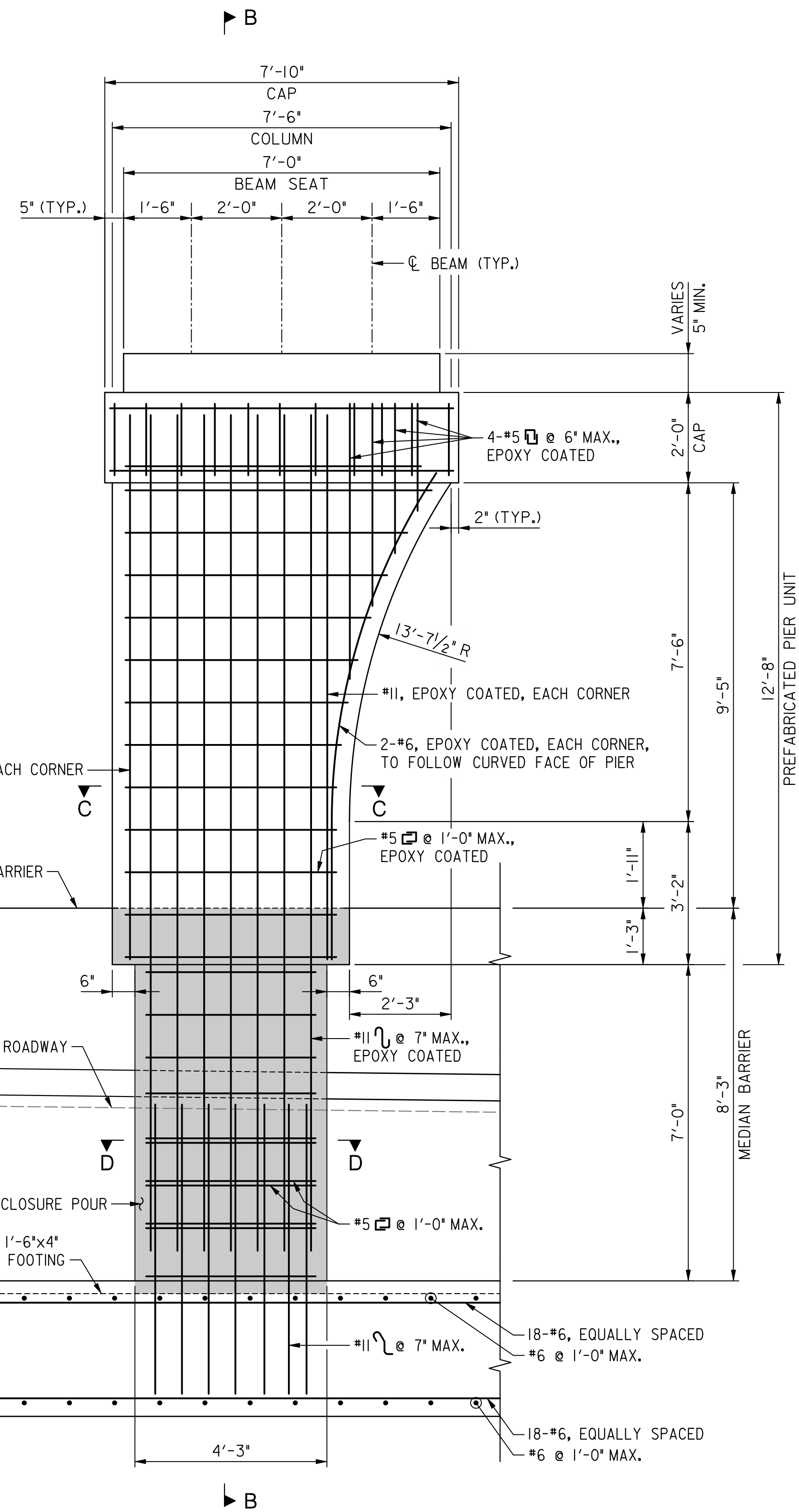
PIER NO. 1
PLAN AND ELEVATION

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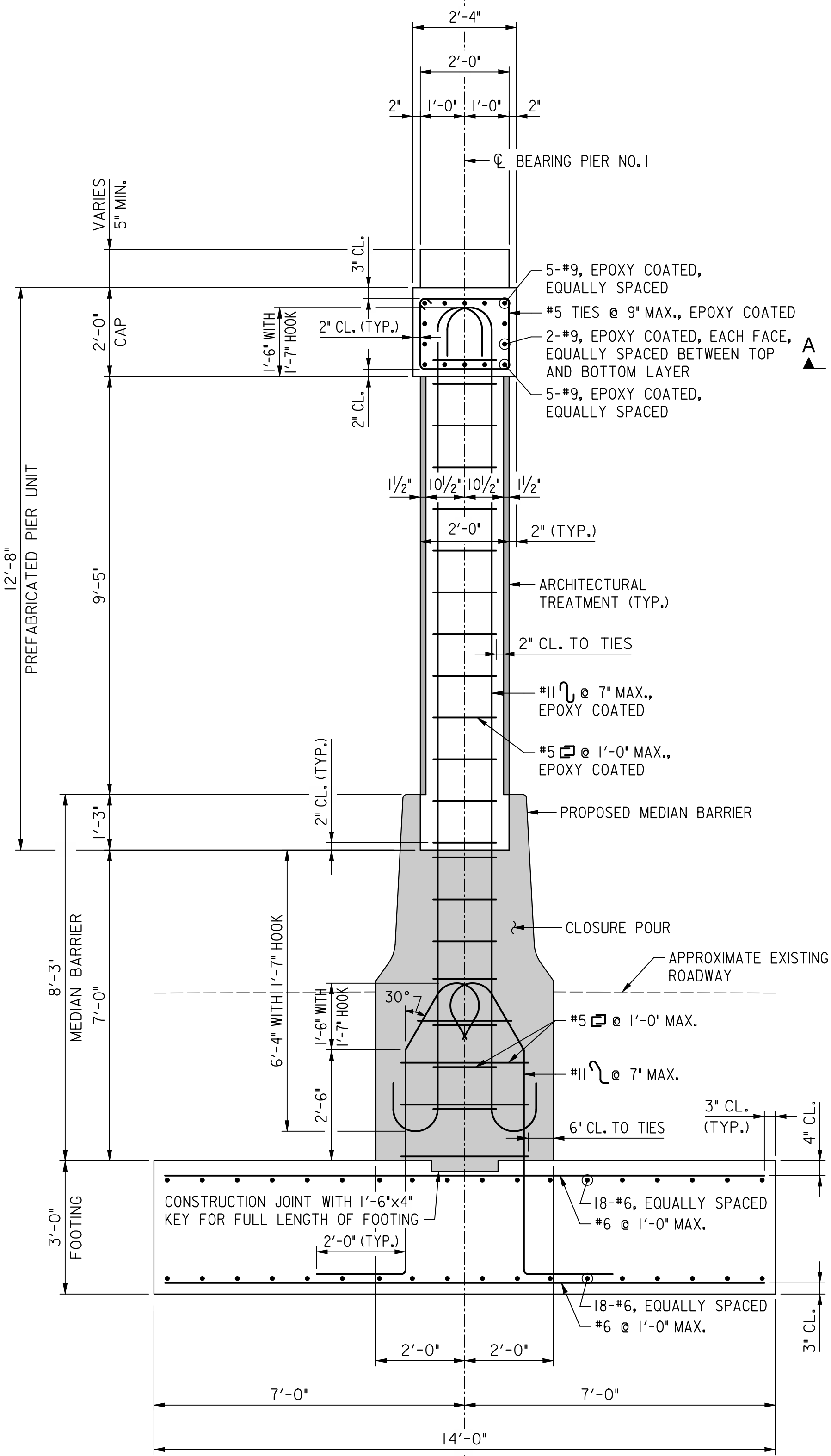
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PROJECT ENG.	MC
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PROJECT MGR.	BP
DIVISION CHIEF	
DATE	03/31/2009
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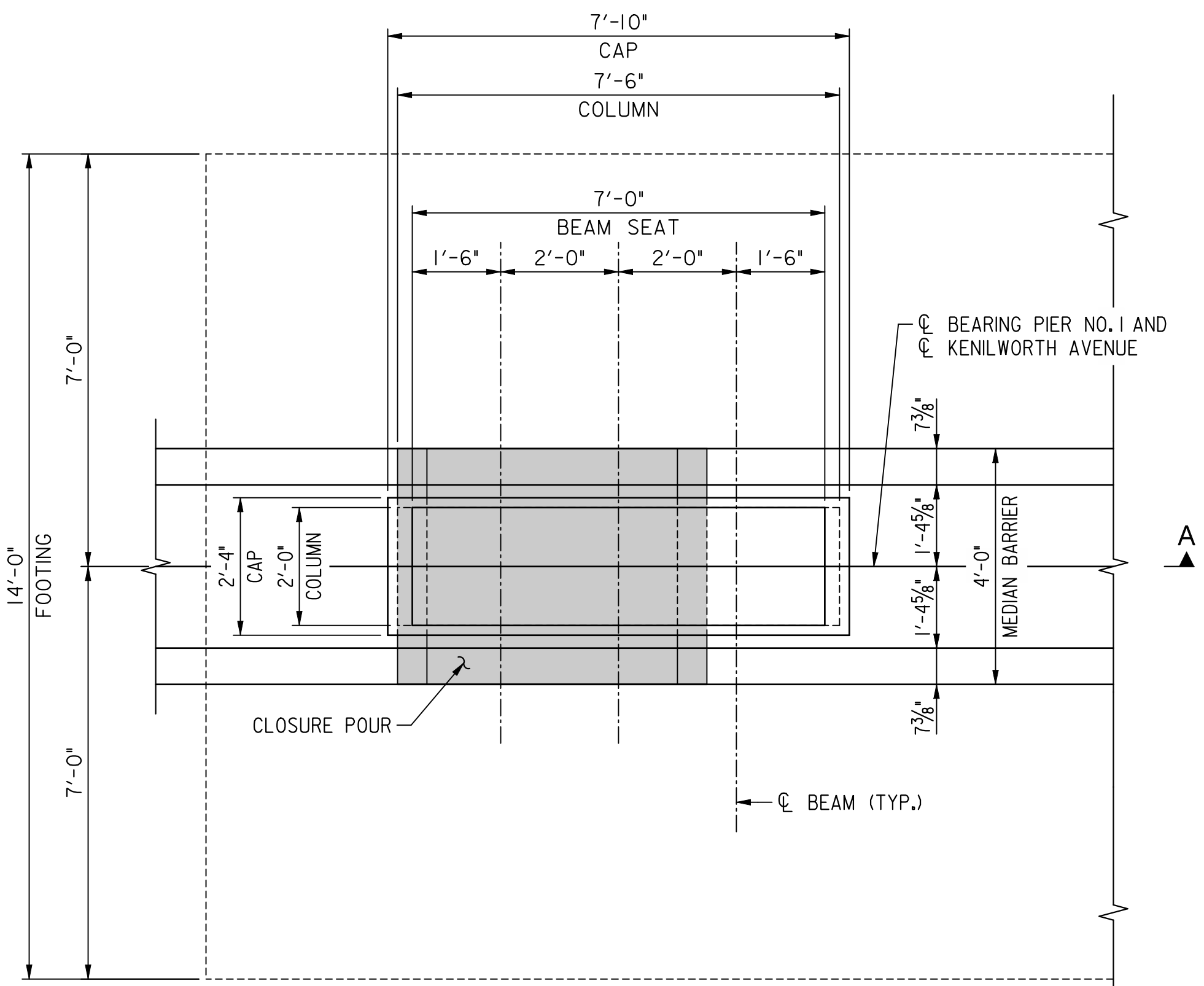
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SECTION A-A - THRU ELEVATION
SCALE: 1/2" = 1'-0"



SECTION B-B - TYPICAL SECTION
SCALE: 1/2" = 1'-0"



PLAN - EXTERIOR PIER UNIT
SCALE: 1/2" = 1'-0"

- NOTE(S):
- MEDIAN BARRIER REINFORCING STEEL NOT SHOWN FOR CLARITY.
 - BEARING PEDESTAL REINFORCING STEEL NOT SHOWN FOR CLARITY.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ADDITIONAL TEMPORARY SUPPORT OF PREFABRICATED PIER UNIT DURING ERECTION, CLOSURE POUR AND CURING FOR REVIEW AND APPROVAL BY THE ENGINEER.
 - FOR SECTION C-C AND SECTION D-D, SEE 'PIER NO. 1 DETAILS' SHEET.
 - FOR THE VERTICAL REINFORCING STEEL EXTENDING FROM THE BOTTOM OF THE PREFABRICATED PIER UNIT INTO THE CLOSURE POUR, THE CONTRACTOR MAY USE MECHANICAL SPLICES AT THE BASE OF PREFABRICATED PIER UNIT TO EASE TRANSPORTATION AND ERECTION. THE MECHANICAL SPLICES MAY BE USED AT NO ADDITIONAL COST TO DDOT.

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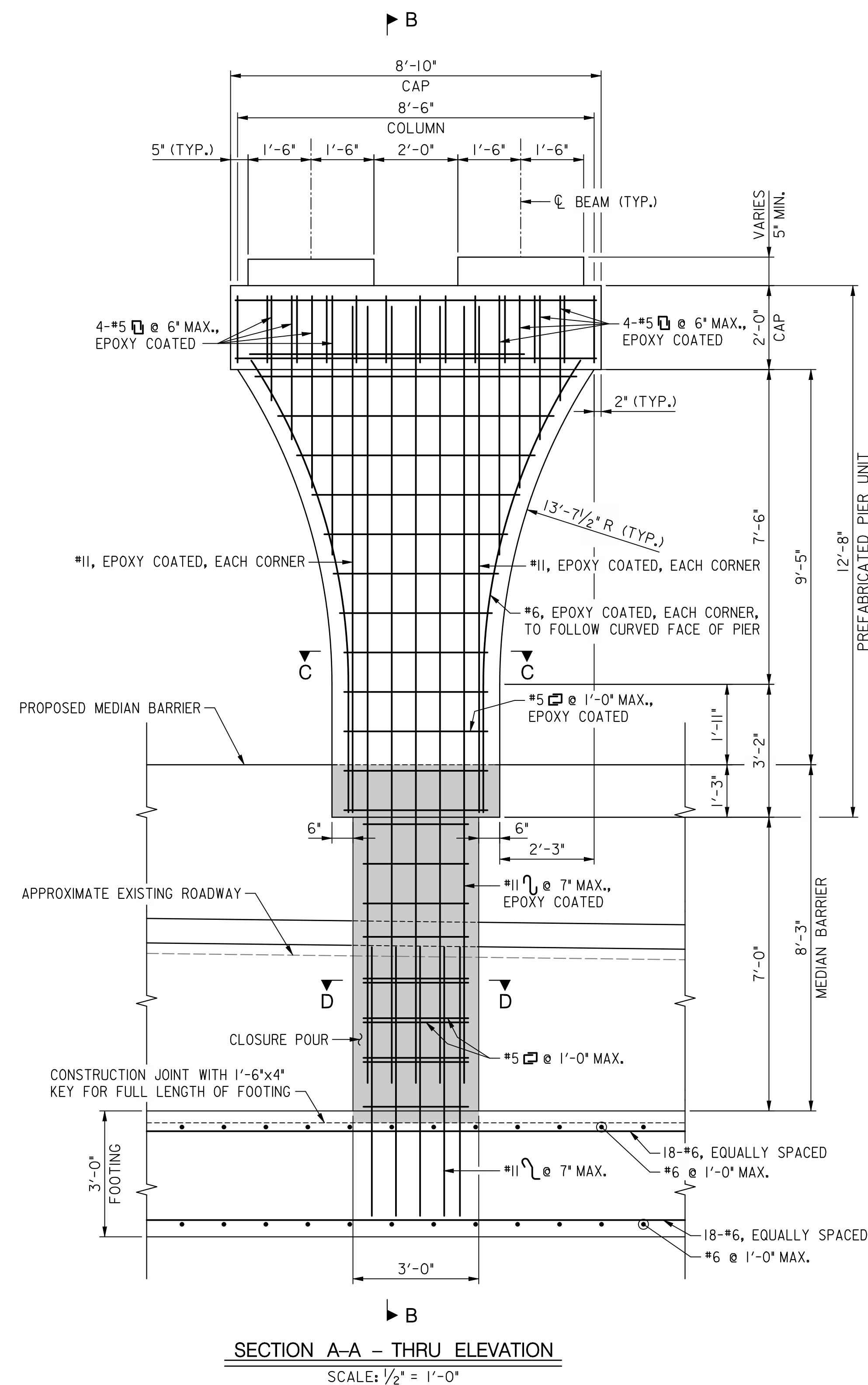
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PROJECT MANAGEMENT DIVISION

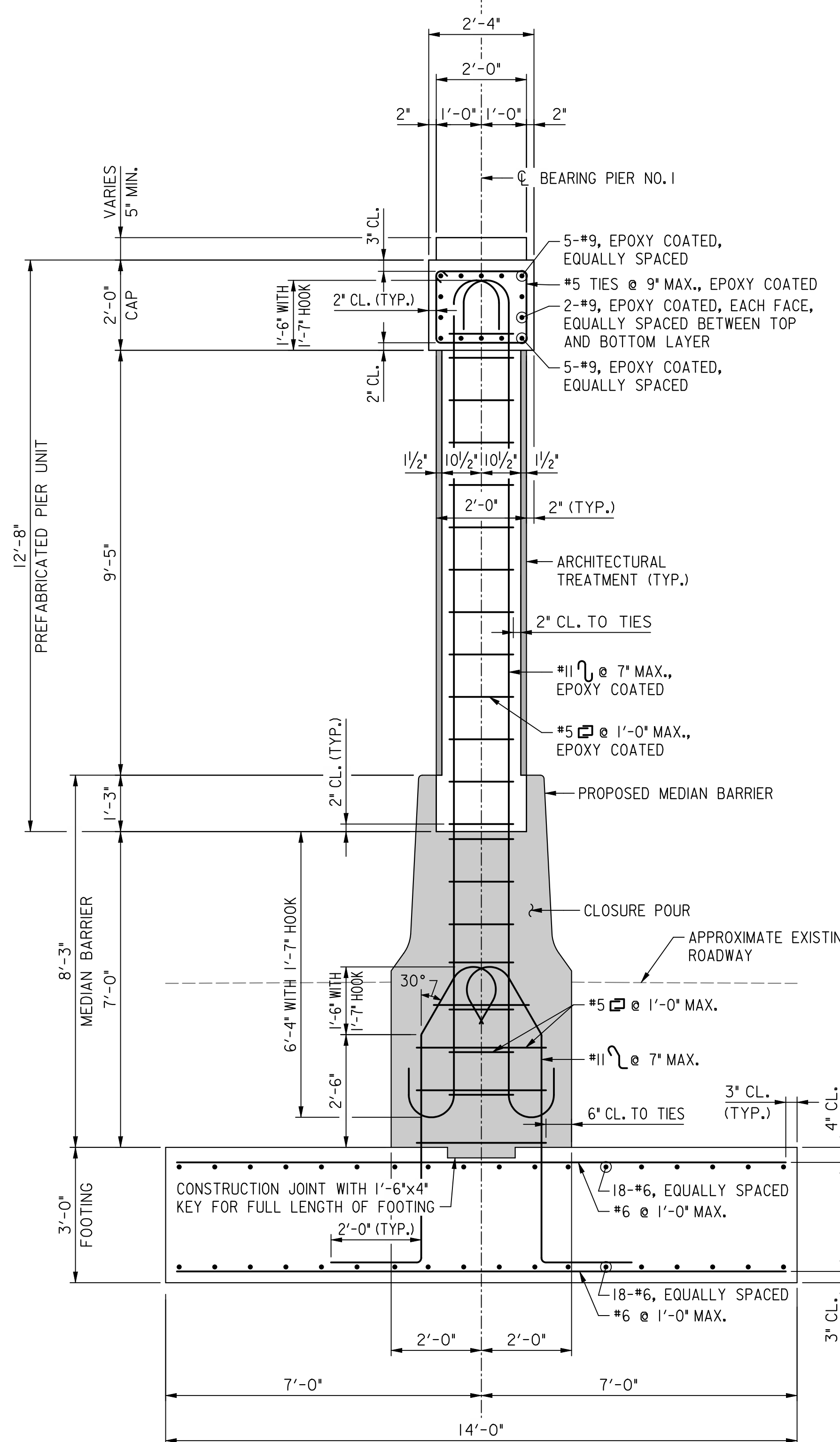
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PIER NO. 1
EXTERIOR UNIT

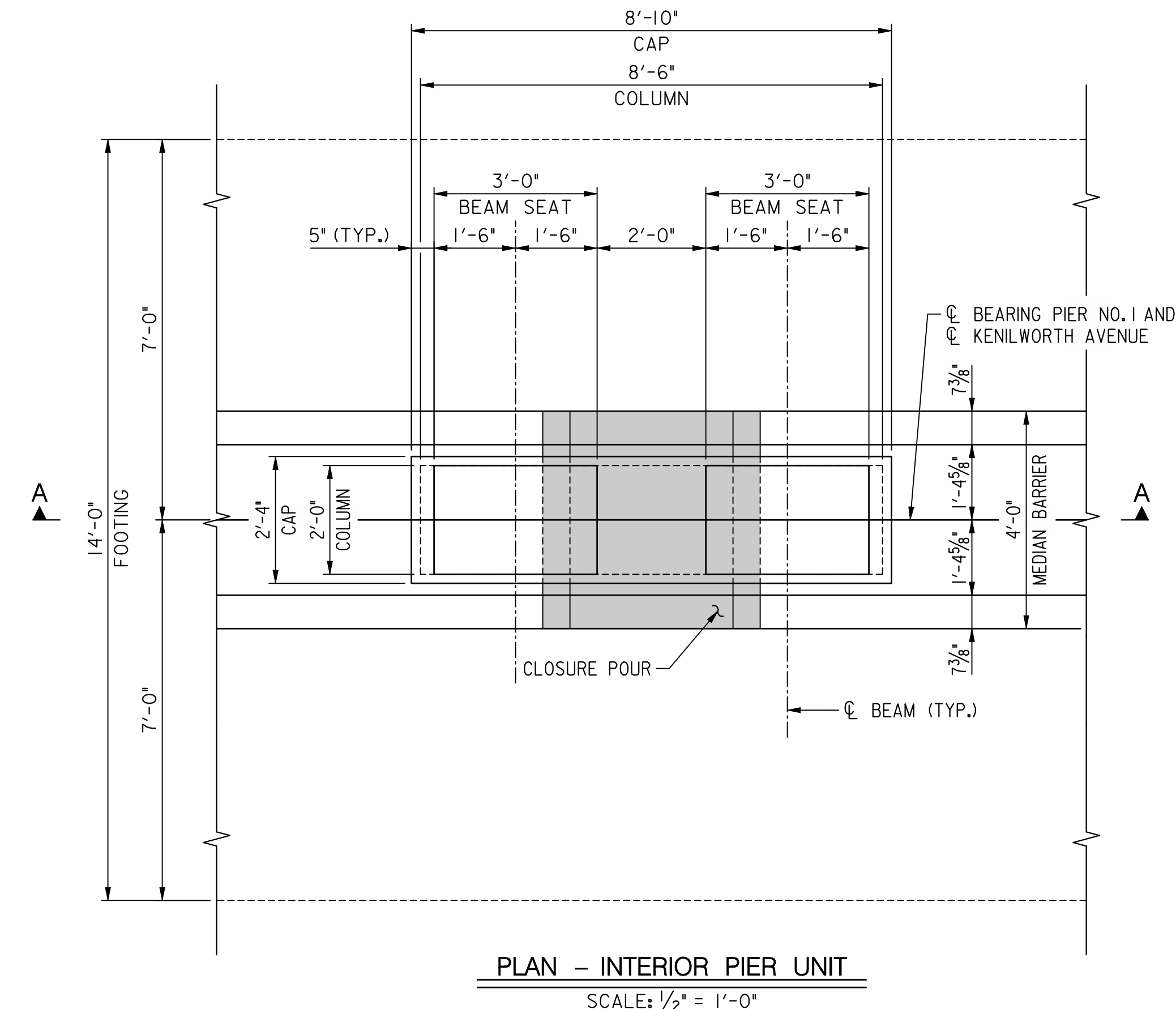
PROJECT ENG. MC	DIVISION CHIEF
DESIGNED BY MC	
CHECKED BY BP	
DRAWN BY MC	
PROJECT MGR. BP	
DATE 03/31/2009	
FILE	



SECTION A-A - THRU ELEVATION
SCALE: 1/2" = 1'-0"



SECTION B-B - TYPICAL SECTION
SCALE: 1/2" = 1'-0"



PLAN - INTERIOR PIER UNIT
SCALE: 1/2" = 1'-0"

NOTE(S):

1. MEDIAN BARRIER REINFORCING STEEL NOT SHOWN FOR CLARITY.
2. BEARING PEDESTAL REINFORCING STEEL NOT SHOWN FOR CLARITY.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ADDITIONAL TEMPORARY SUPPORT OF PREFABRICATED PIER UNIT DURING ERECTION, CLOSURE POUR AND CURING FOR REVIEW AND APPROVAL BY THE ENGINEER.
4. FOR SECTION C-C AND SECTION D-D, SEE "PIER NO. 1 DETAILS" SHEET.
5. FOR THE VERTICAL REINFORCING STEEL EXTENDING FROM THE BOTTOM OF THE PREFABRICATED PIER UNIT INTO THE CLOSURE POUR, THE CONTRACTOR MAY USE MECHANICAL SPLICES AT THE BASE OF PREFABRICATED PIER UNIT TO EASE TRANSPORTATION AND ERECTION. THE MECHANICAL SPLICES MAY BE USED AT NO ADDITIONAL COST TO DDOT.

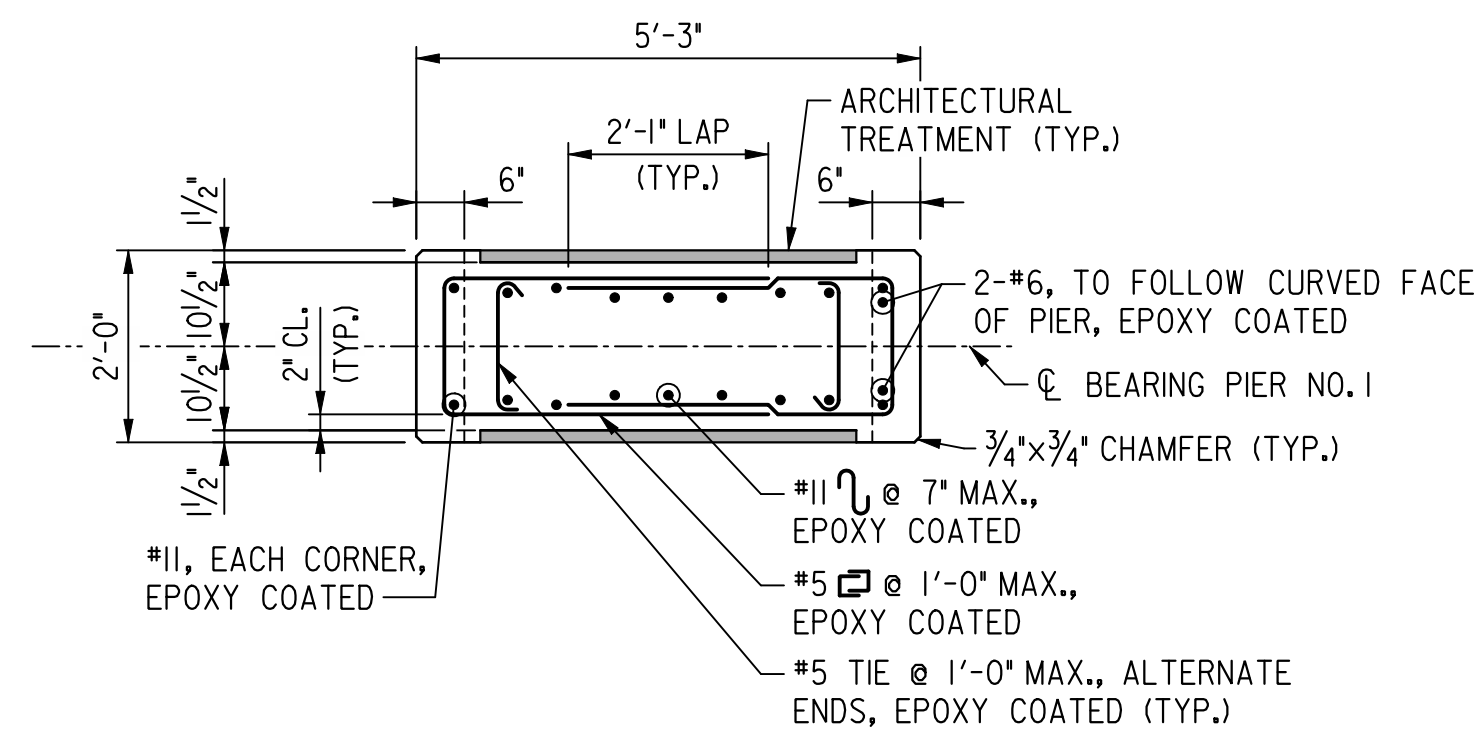
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
PIER NO. 1 INTERIOR UNIT	PROJECT ENG. <u>MC</u> DESIGNED BY <u>MC</u> CHECKED BY <u>BP</u> DRAWN BY <u>MC</u> PROJECT MGR. <u>BP</u> DIVISION CHIEF DATE <u>03/31/2009</u> FILE _____

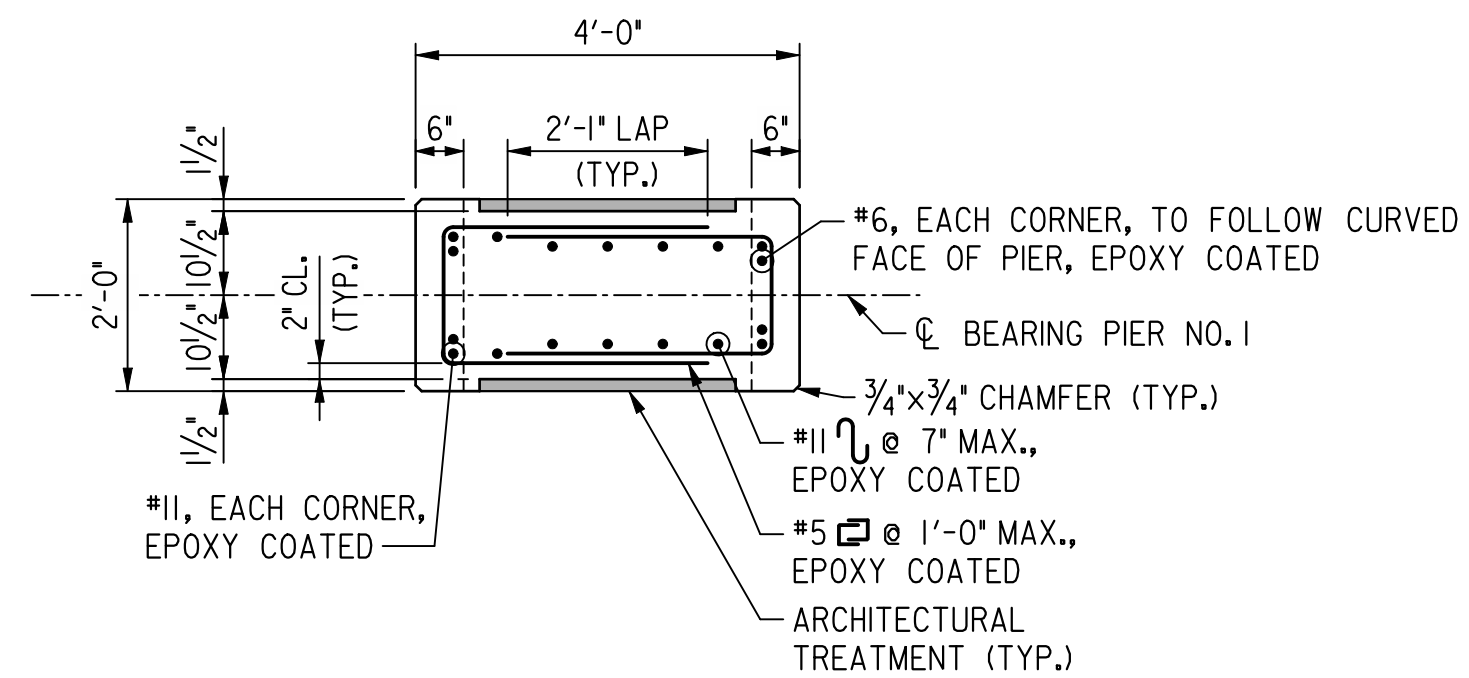
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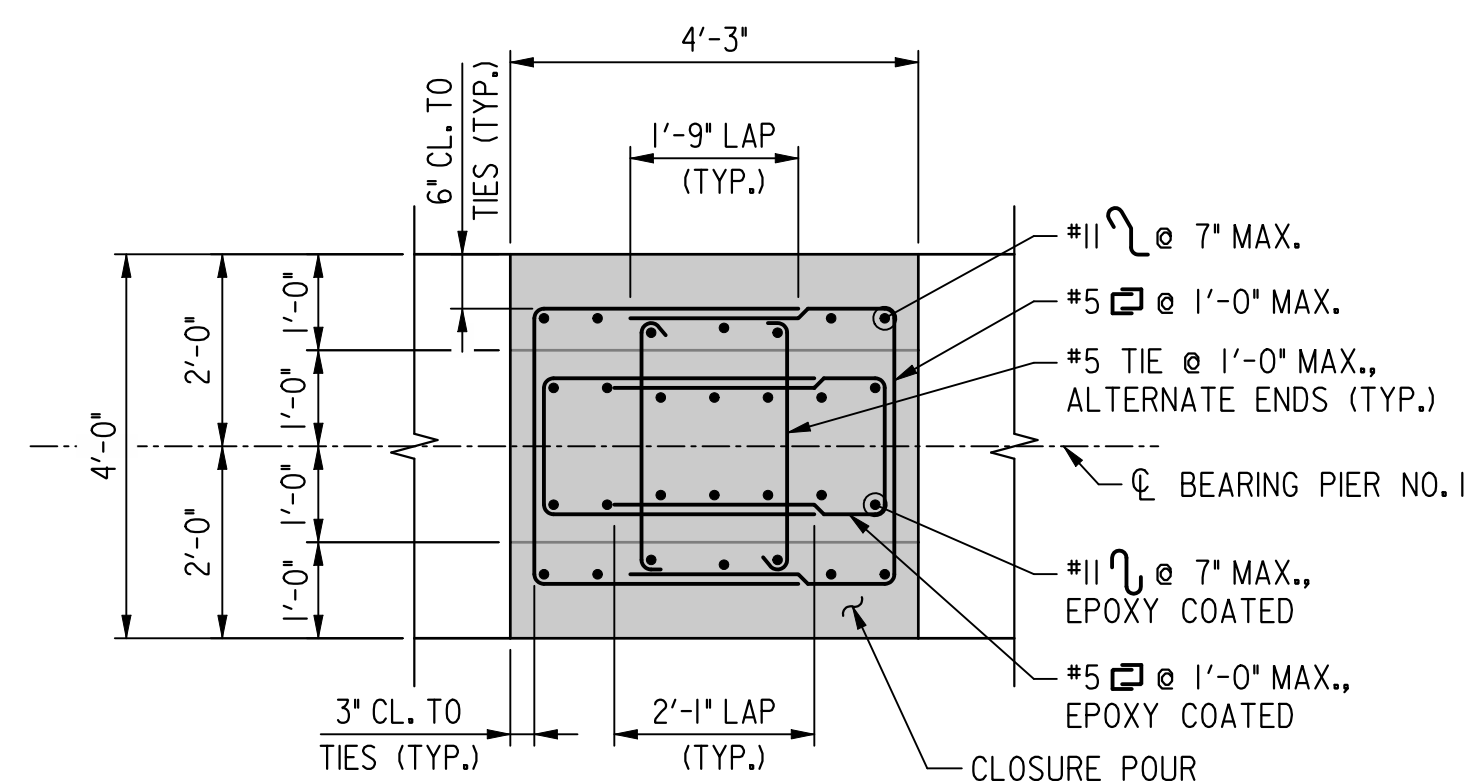
SECTION C-C - COLUMN SECTION

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



SECTION C-C - COLUMN SECTION

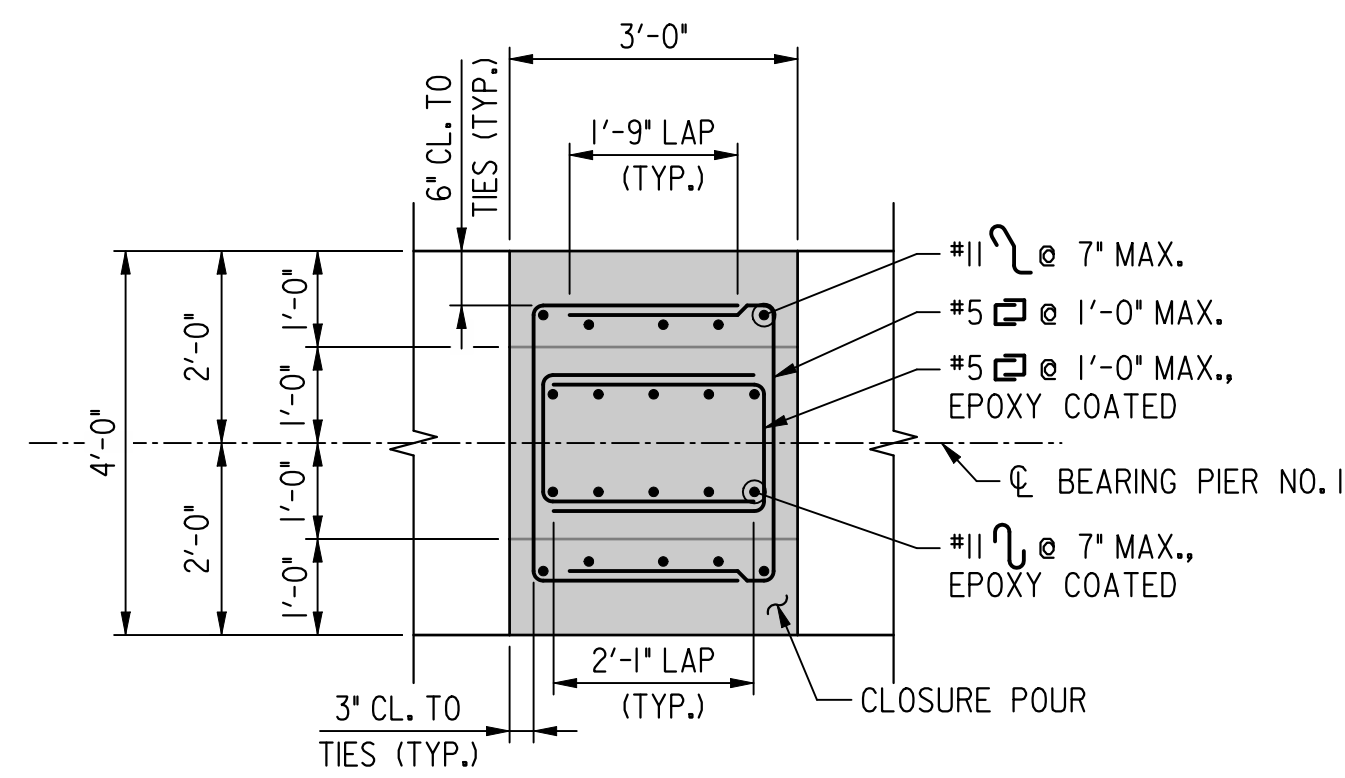
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SECTION D-D - COLUMN SECTION

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

EXTERIOR UNIT COLUMN DETAILS

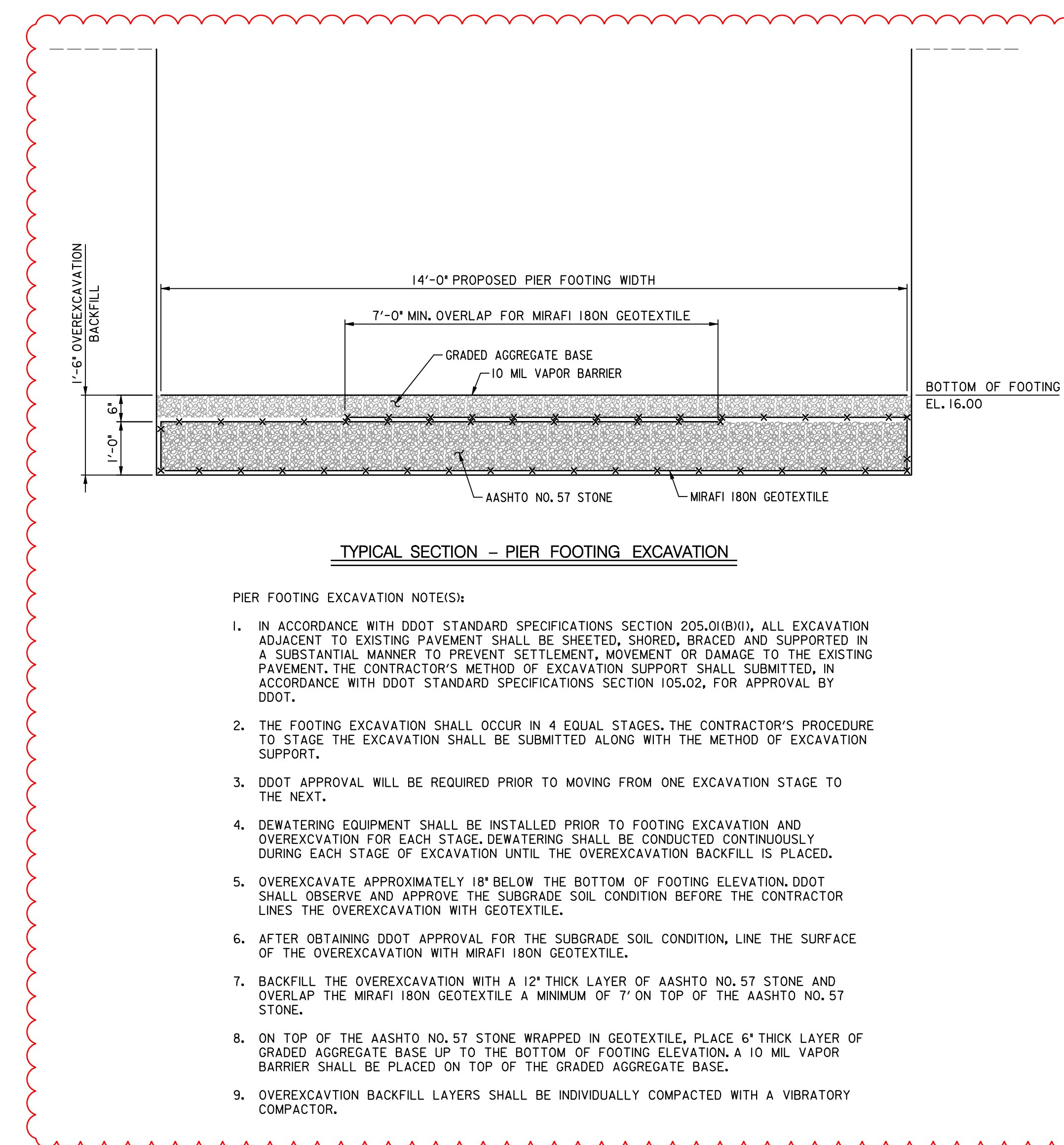


SECTION D-D - COLUMN SECTION

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

INTERIOR UNIT COLUMN DETAILS

PIER FOOTING EXCAVATION DETAIL



TYPICAL SECTION - PIER FOOTING EXCAVATION

PIER FOOTING EXCAVATION NOTE(S):

- IN ACCORDANCE WITH DDOT STANDARD SPECIFICATIONS SECTION 205.01(B)(1), ALL EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE SHEETED, SHORED, BRACED AND SUPPORTED IN A SUBSTANTIAL MANNER TO PREVENT SETTLEMENT, MOVEMENT OR DAMAGE TO THE EXISTING PAVEMENT. THE CONTRACTOR'S METHOD OF EXCAVATION SUPPORT SHALL SUBMITTED, IN ACCORDANCE WITH DDOT STANDARD SPECIFICATIONS SECTION 105.02, FOR APPROVAL BY DDOT.
- THE FOOTING EXCAVATION SHALL OCCUR IN 4 EQUAL STAGES. THE CONTRACTOR'S PROCEDURE TO STAGE THE EXCAVATION SHALL BE SUBMITTED ALONG WITH THE METHOD OF EXCAVATION SUPPORT.
- DDOT APPROVAL WILL BE REQUIRED PRIOR TO MOVING FROM ONE EXCAVATION STAGE TO THE NEXT.
- DEWATERING EQUIPMENT SHALL BE INSTALLED PRIOR TO FOOTING EXCAVATION AND OVEREXCAVATION FOR EACH STAGE. DEWATERING SHALL BE CONDUCTED CONTINUOUSLY DURING EACH STAGE OF EXCAVATION UNTIL THE OVEREXCAVATION BACKFILL IS PLACED.
- OVEREXCAVATE APPROXIMATELY 18" BELOW THE BOTTOM OF FOOTING ELEVATION. DDOT SHALL OBSERVE AND APPROVE THE SUBGRADE SOIL CONDITION BEFORE THE CONTRACTOR LINES THE OVEREXCAVATION WITH GEOTEXTILE.
- AFTER OBTAINING DDOT APPROVAL FOR THE SUBGRADE SOIL CONDITION, LINE THE SURFACE OF THE OVEREXCAVATION WITH MIRAFI 180N GEOTEXTILE.
- BACKFILL THE OVEREXCAVATION WITH A 12" THICK LAYER OF AASHTO NO. 57 STONE AND OVERLAP THE MIRAFI 180N GEOTEXTILE A MINIMUM OF 7' ON TOP OF THE AASHTO NO. 57 STONE.
- ON TOP OF THE AASHTO NO. 57 STONE WRAPPED IN GEOTEXTILE, PLACE 6" THICK LAYER OF GRADED AGGREGATE BASE UP TO THE BOTTOM OF FOOTING ELEVATION. A 10 MIL VAPOR BARRIER SHALL BE PLACED ON TOP OF THE GRADED AGGREGATE BASE.
- OVEREXCAVATION BACKFILL LAYERS SHALL BE INDIVIDUALLY COMPACTED WITH A VIBRATORY COMPACTOR.

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D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

PIER NO. 1
 DETAILS

PROJECT ENG. MC
 DESIGNED BY MC
 CHECKED BY BP
 DRAWN BY MC
 PROJECT MGR. BP

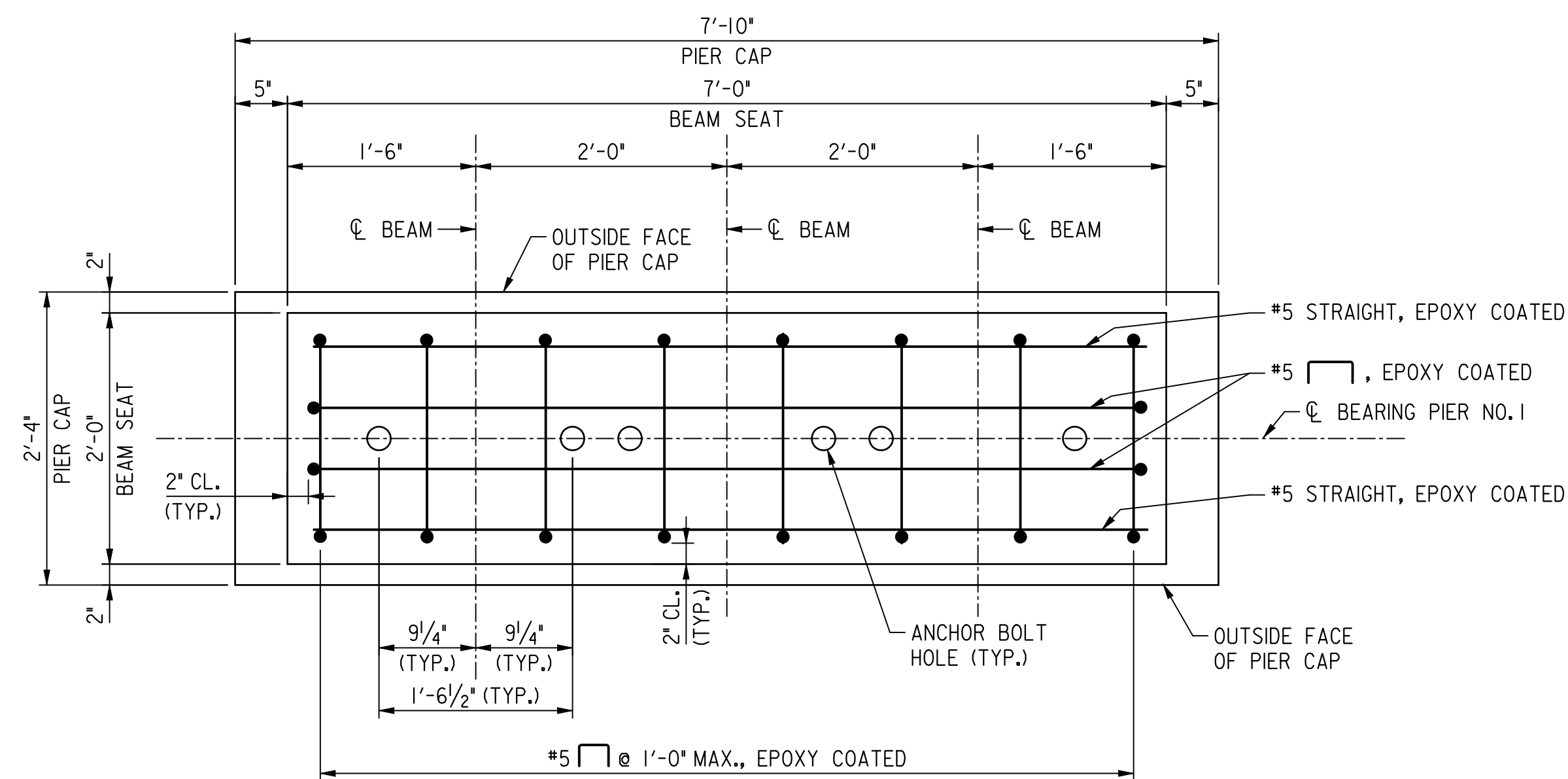
DIVISION CHIEF

DATE 05/01/2009
 FILE

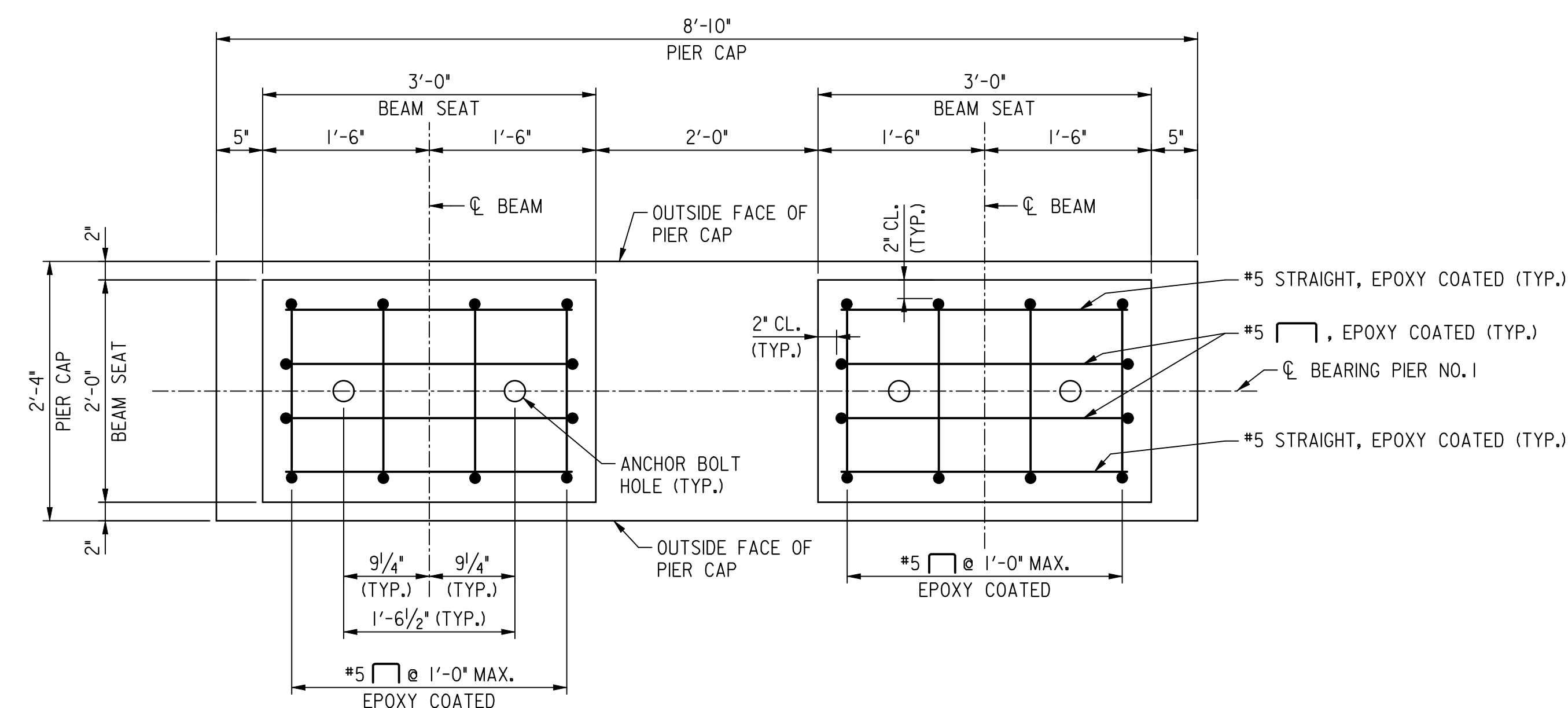
GREENHORNE & O'MARA
 CONSULTING ENGINEERS
 6110 FROST PLACE, LAUREL, MD 20707
 PHONE: (301) 982-2800 FAX: (240) 542-3193
 www.G-and-O.com

PIER FOOTING EXCAVATION DETAIL MC 11/29/2010

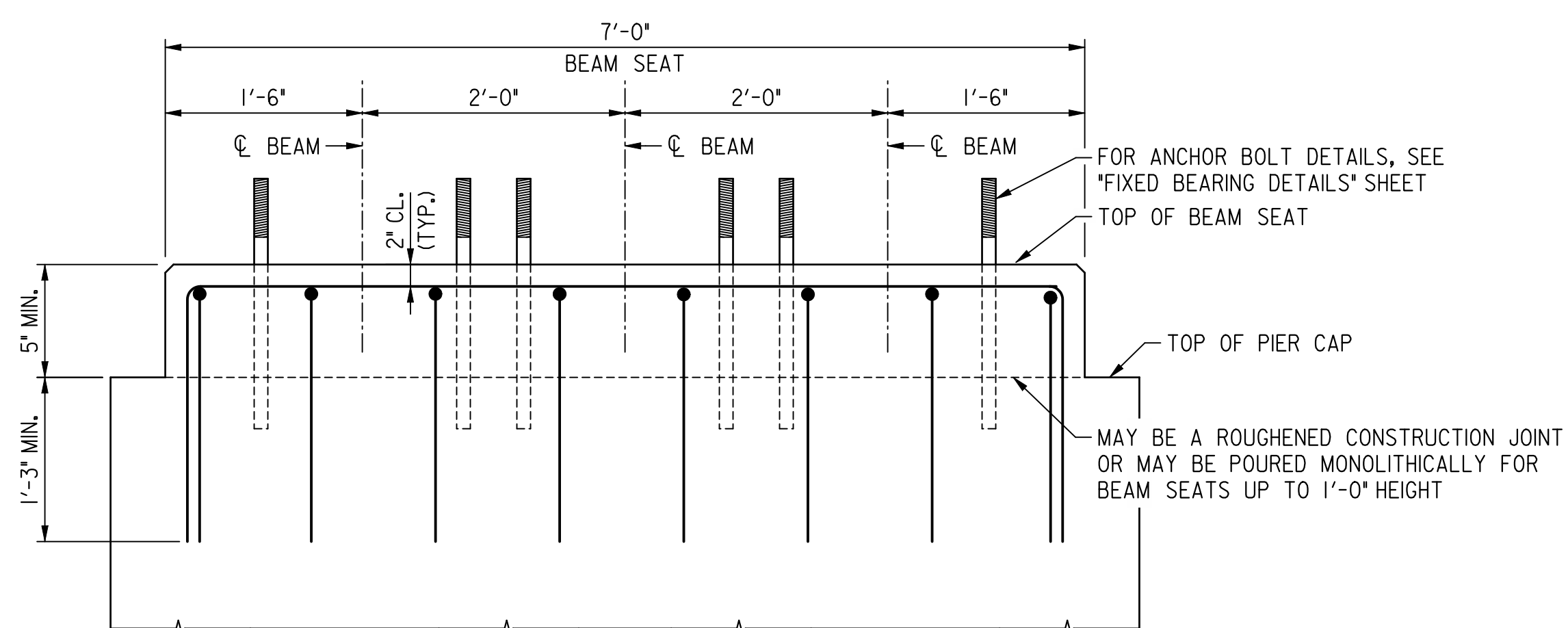
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



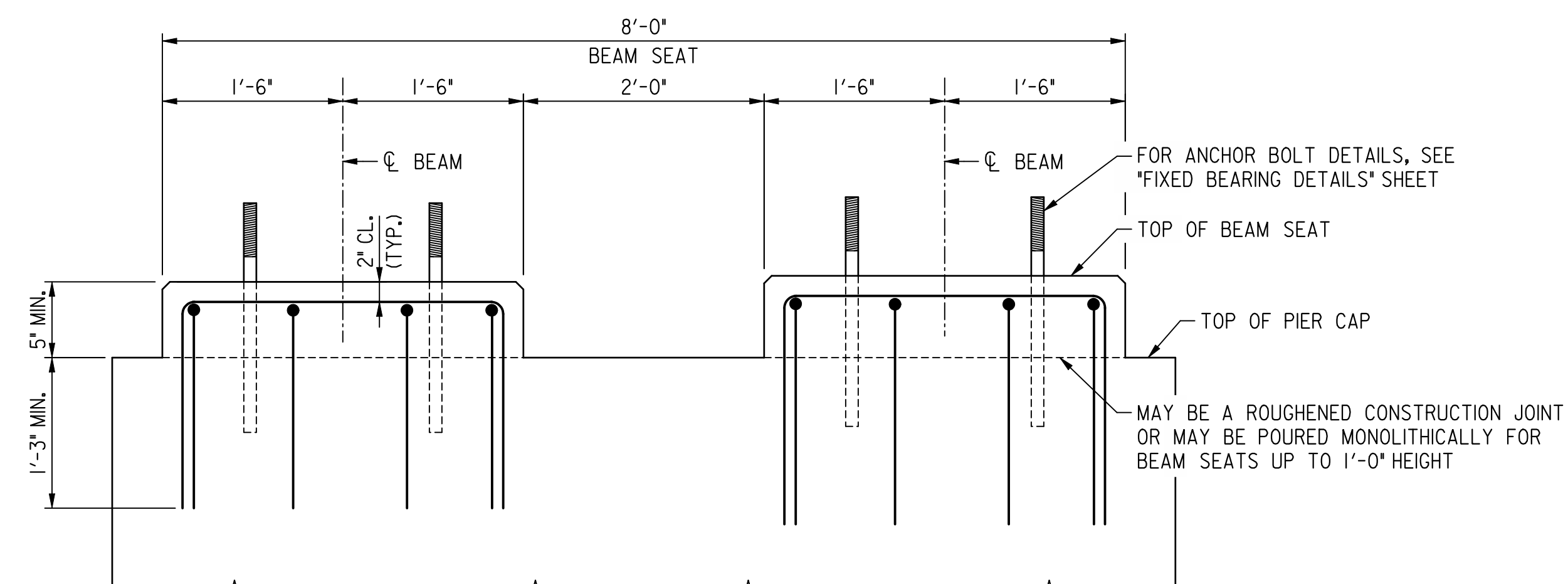
PLAN - EXTERIOR PIER UNIT BEAM SEAT
SCALE: 1" = 1'-0"



PLAN - INTERIOR PIER UNIT BEAM SEAT
SCALE: 1" = 1'-0"



TYPICAL SECTION - EXTERIOR PIER UNIT BEAM SEAT
SCALE: 1" = 1'-0"



TYPICAL SECTION - INTERIOR PIER UNIT BEAM SEAT
SCALE: 1" = 1'-0"

NOTE(S):

- ANCHOR BOLTS SHALL BE SET IN ROUND HOLES CAST INTO THE CONCRETE WITH 3" DIA. SLEEVES.
- HOLES SHALL BE FILLED WITH NONSHRINK GROUT CONFORMING TO DDOT SPEC. SEC. 806.05(E).
- SPACE REINFORCING STEEL TO CLEAR ANCHOR BOLTS.

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PIER NO. 1
BEAM SEAT DETAILS

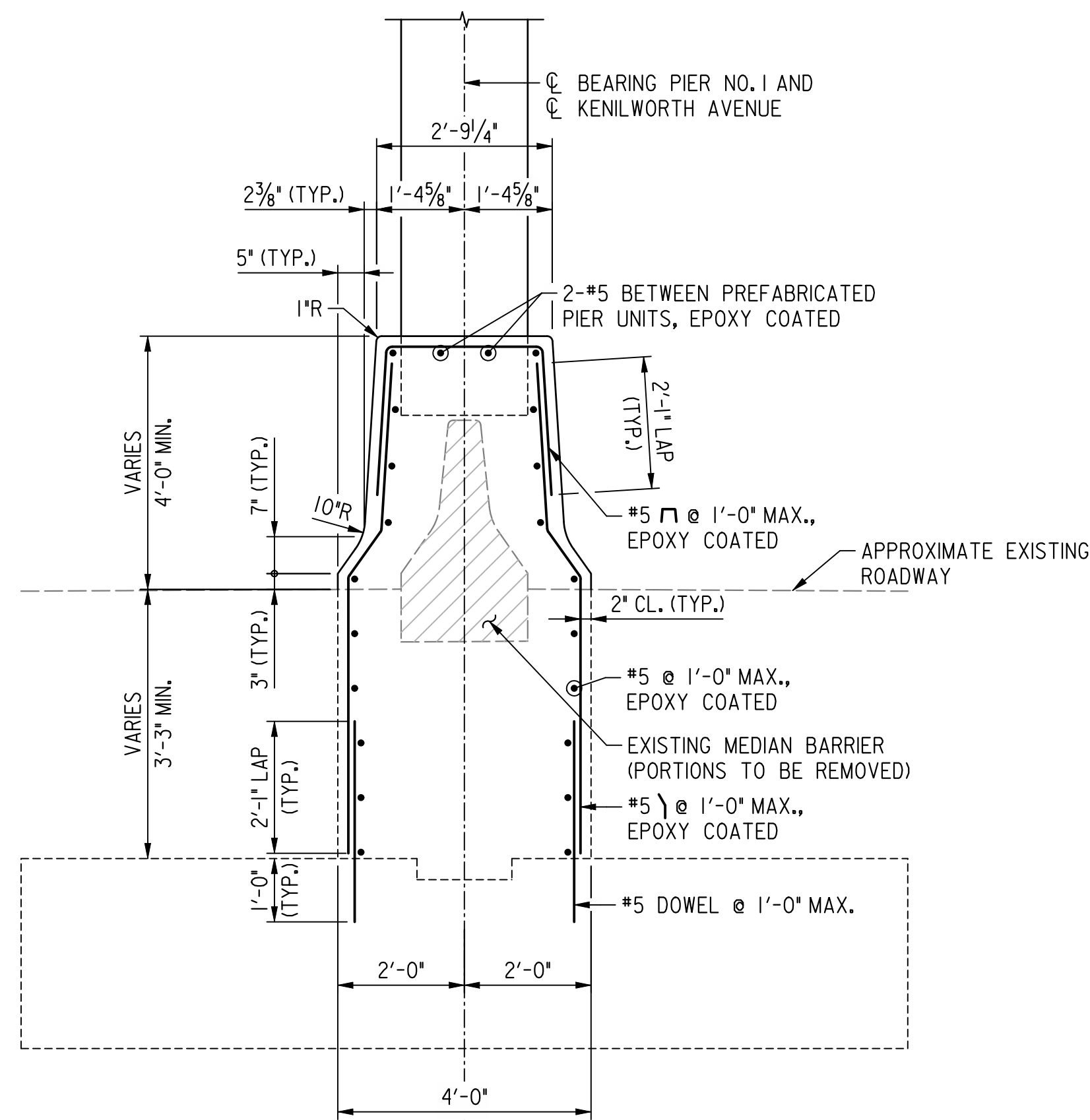
PROJECT ENG. MC
DESIGNED BY MC
CHECKED BY BP
DRAWN BY MC
PROJECT MGR. BP

DIVISION CHIEF

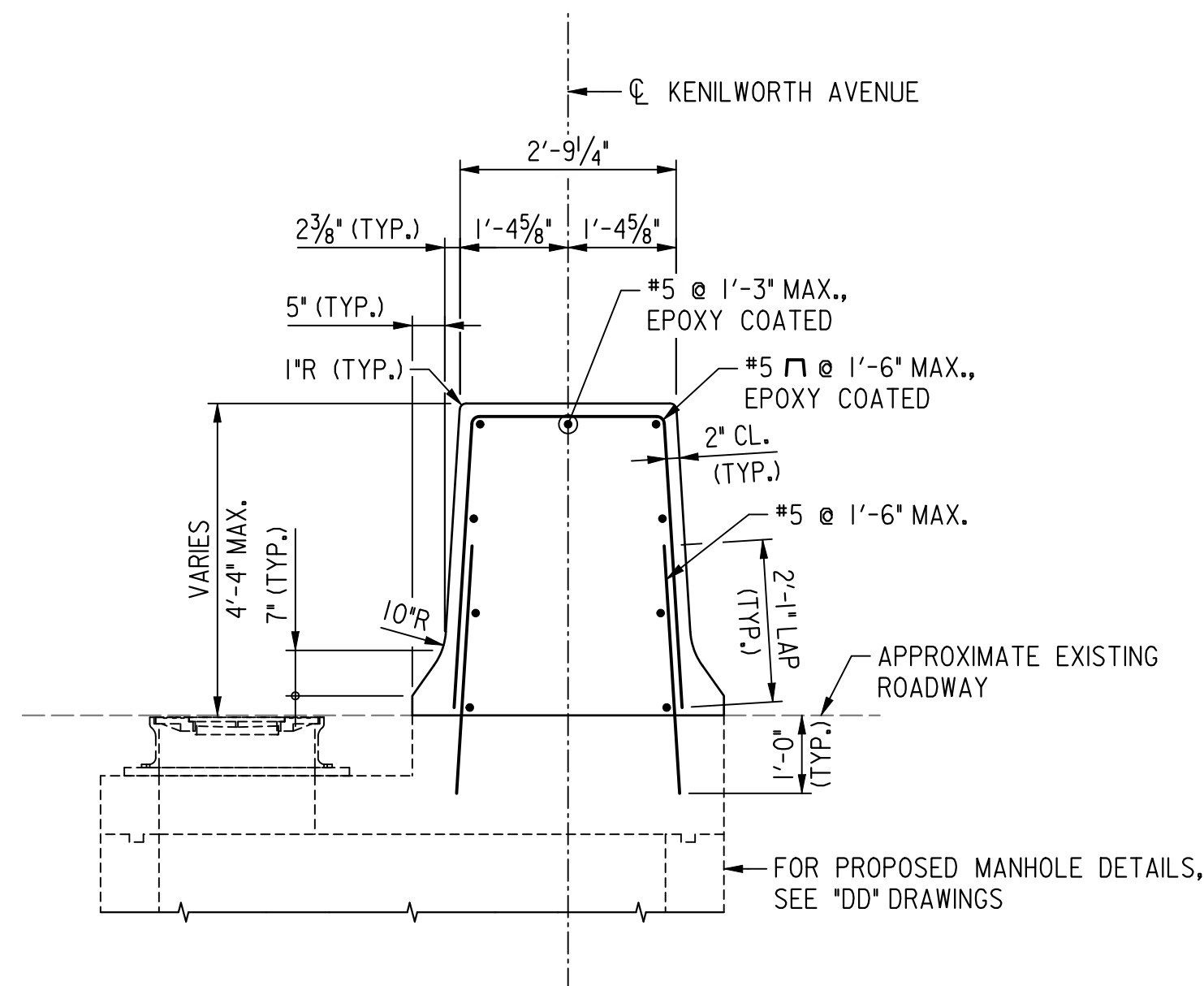
DATE 03/31/2009
FILE

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REVISIONS			

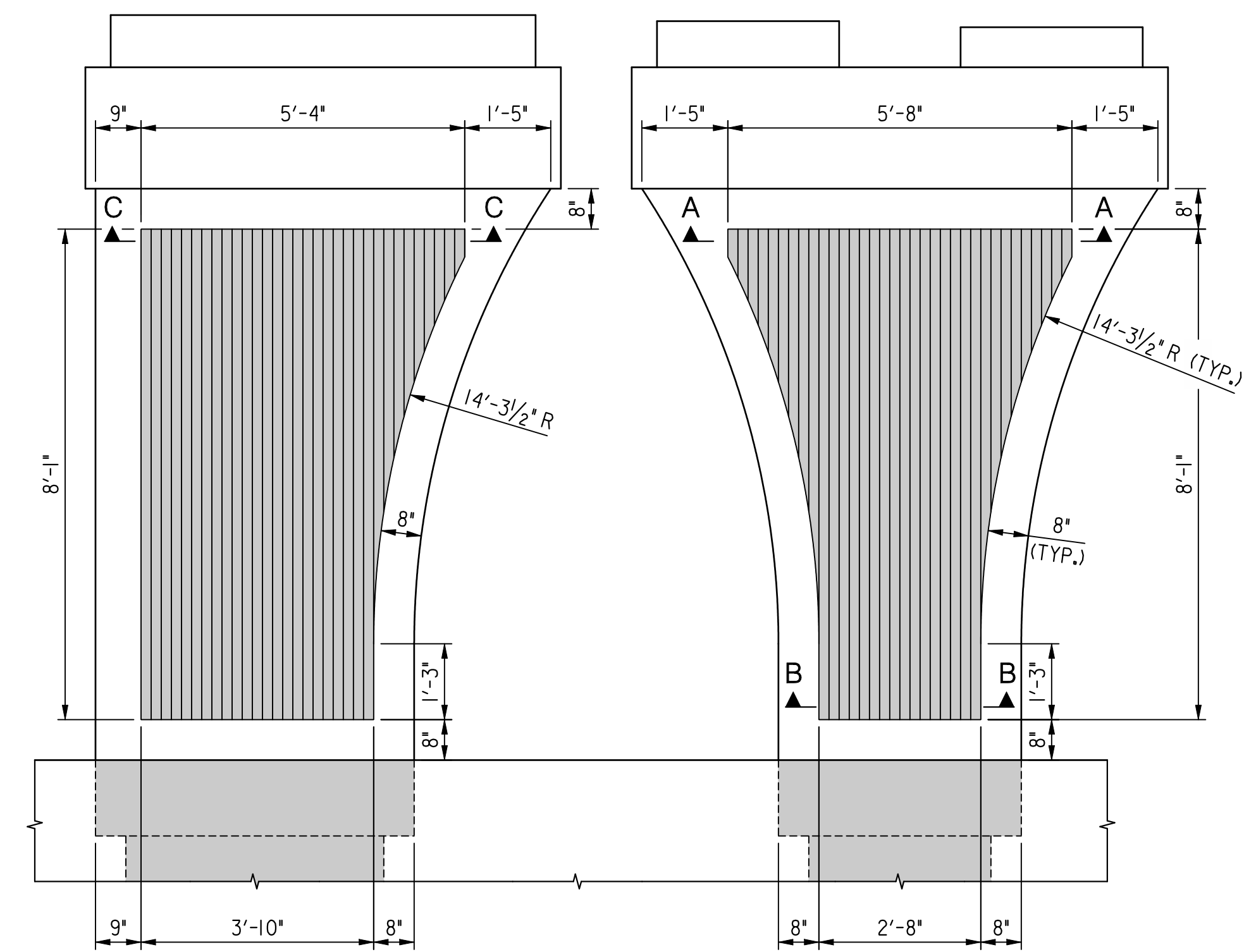


SECTION - MEDIAN BARRIER ALONG PIER
SCALE: 1/2" = 1'-0"

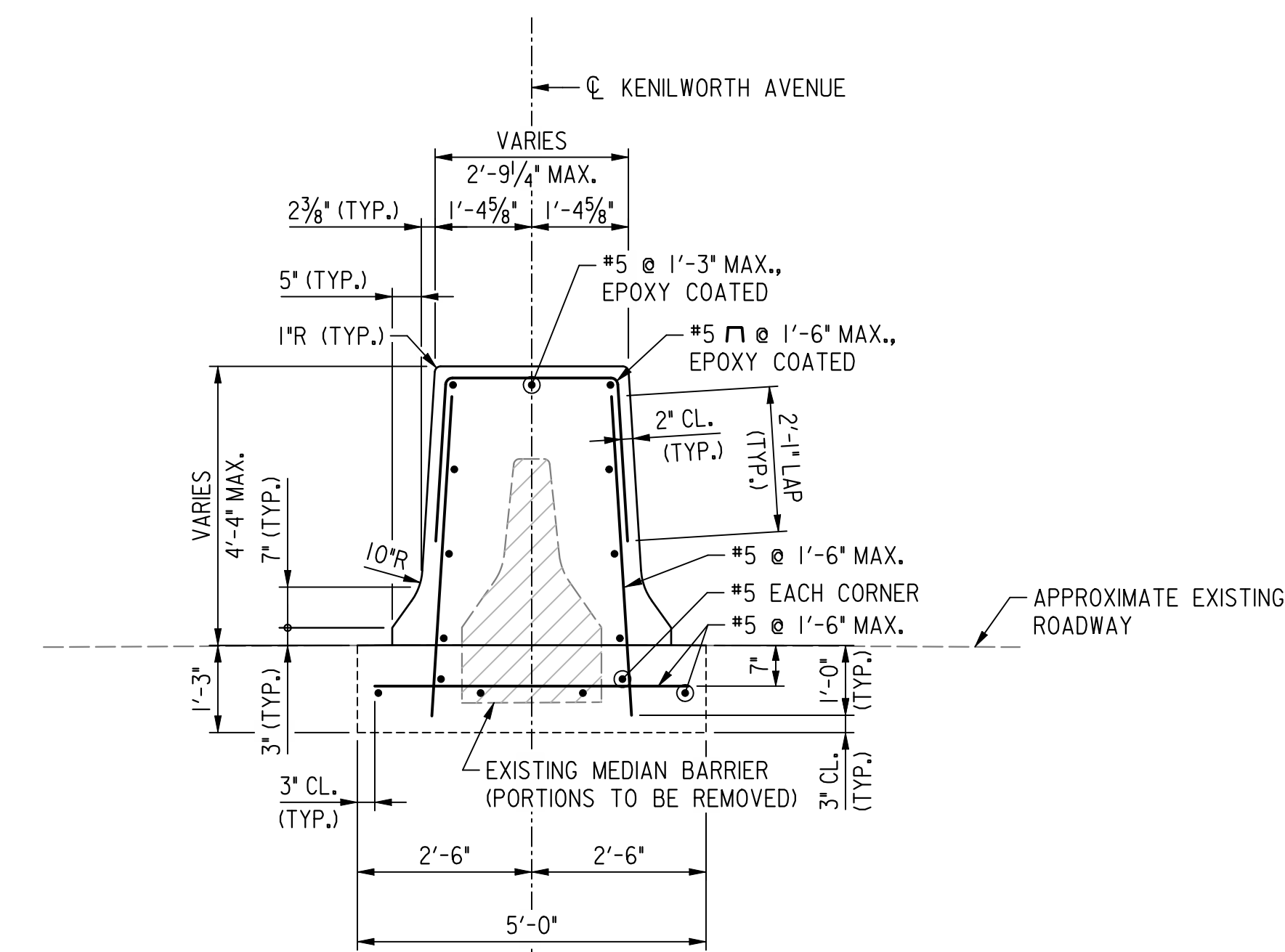


SECTION - MEDIAN BARRIER OVER MANHOLE
SCALE: 1/2" = 1'-0"

NOTE(S):
1. MANHOLE REINFORCING STEEL NOT SHOWN FOR CLARITY. FOR DETAILS, SEE "DD" DRAWINGS.

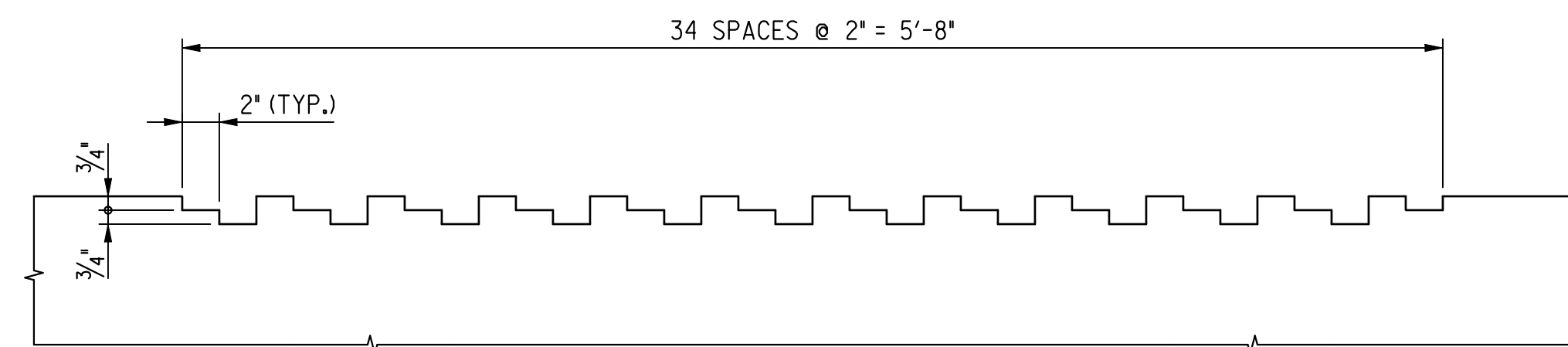


ELEVATION - ARCHITECTURAL TREATMENT
SCALE: 1/2" = 1'-0"

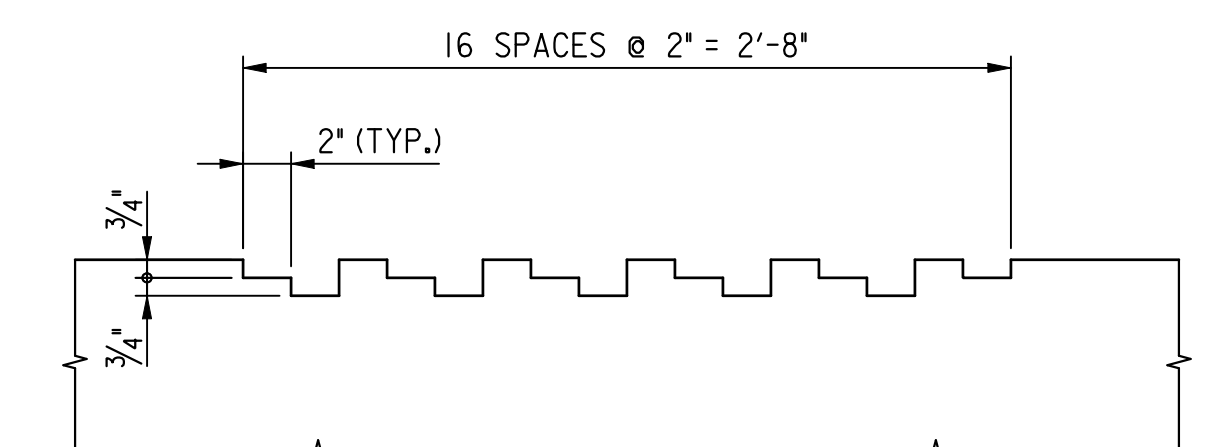


SECTION - MEDIAN BARRIER OUTSIDE PIER LIMITS
SCALE: 1/2" = 1'-0"

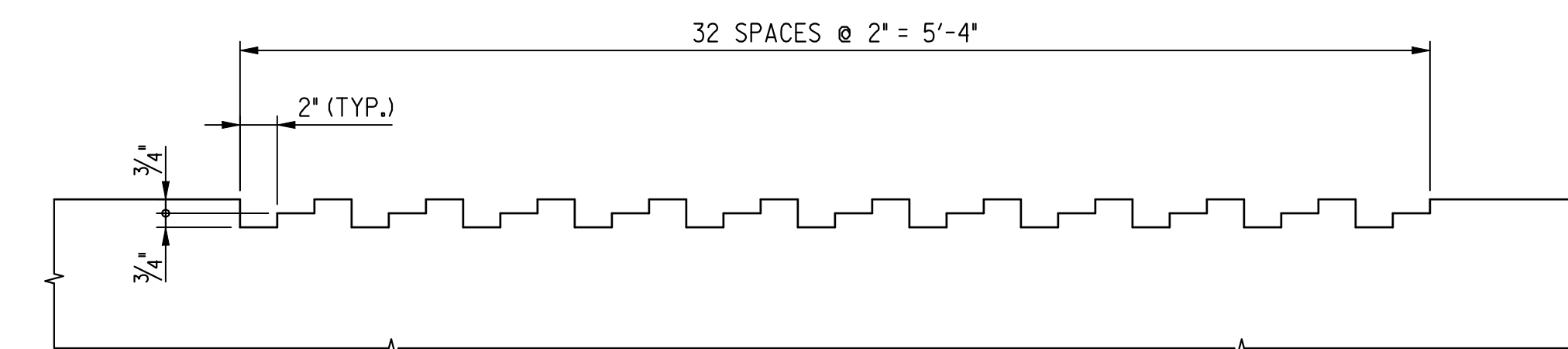
NOTE(S):
1. THE 5" AND 2 3/8" MEDIAN BARRIER DIMENSIONS MAY BE VARIED AS REQUIRED WITHIN THE 10'-0" BARRIER TRANSITION REGION TO MATCH THE SHAPE OF THE EXISTING MEDIAN BARRIER. THE REQUIRED DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AND PROVIDED TO THE ENGINEER FOR APPROVAL.



SECTION A-A - ARCHITECTURAL TREATMENT PATTERN
SCALE: 1 1/2" = 1'-0"



SECTION B-B - ARCHITECTURAL TREATMENT PATTERN
SCALE: 1 1/2" = 1'-0"



SECTION C-C - ARCHITECTURAL TREATMENT PATTERN
SCALE: 1 1/2" = 1'-0"

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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

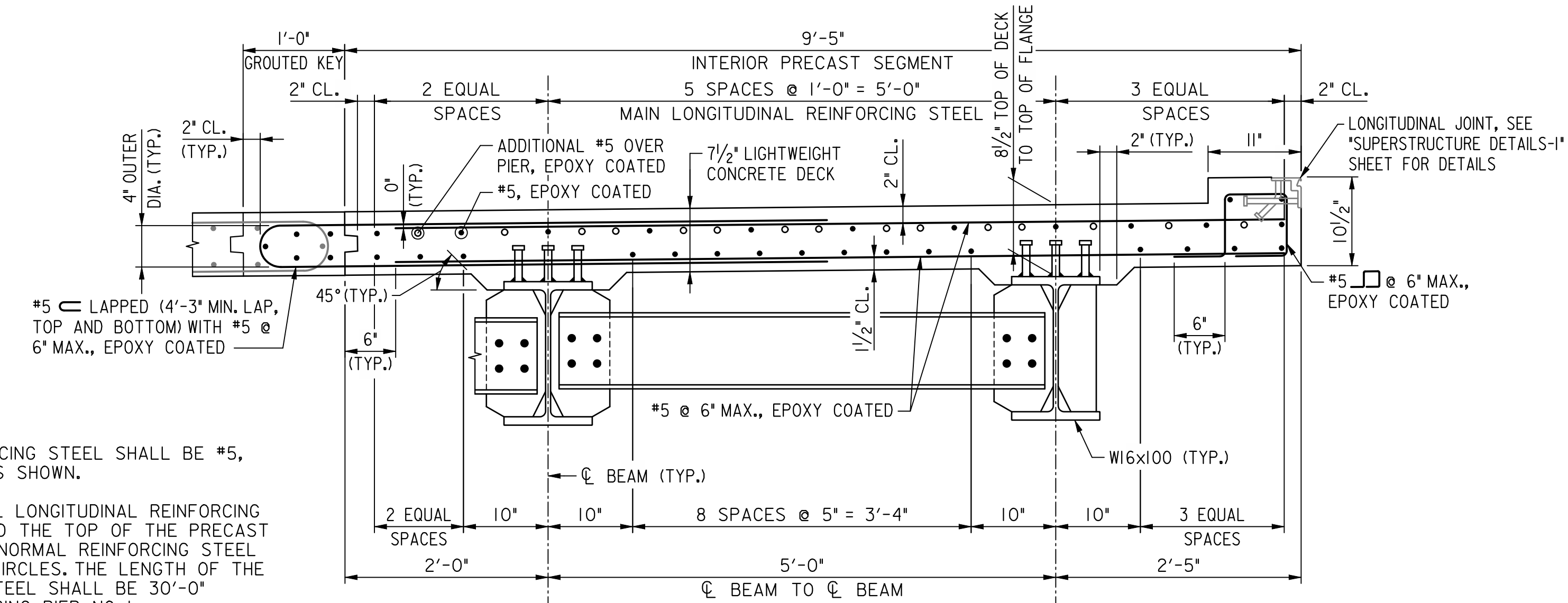
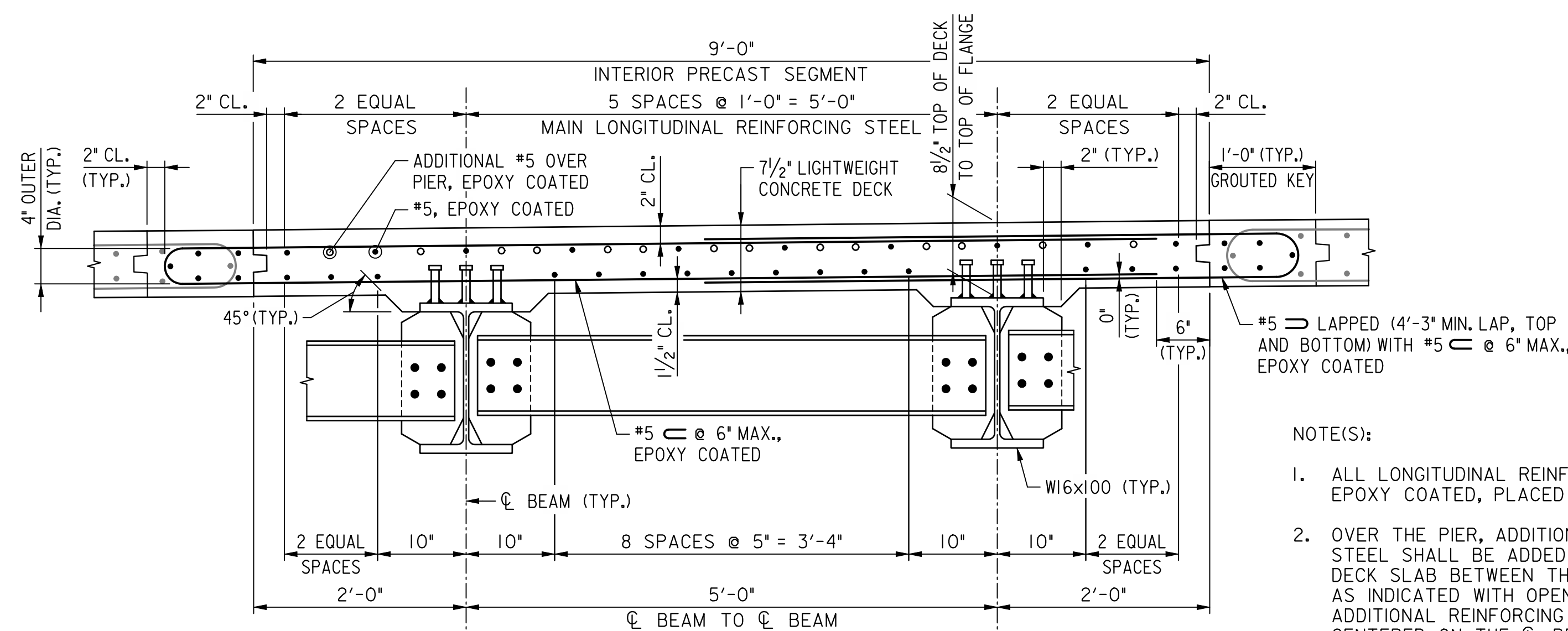
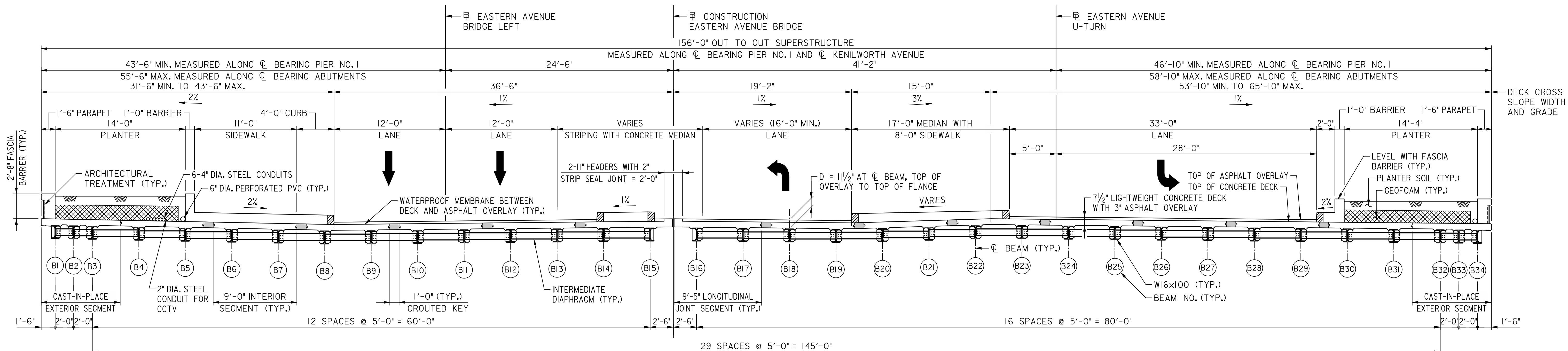
PIER NO. 1
MEDIAN BARRIER AND
ARCHITECTURAL TREATMENT DETAILS

PROJECT ENG. MC
DESIGNED BY MC
CHECKED BY BP
DRAWN BY MC
PROJECT MGR. BP
DIVISION CHIEF
DATE 05/01/2009
FILE

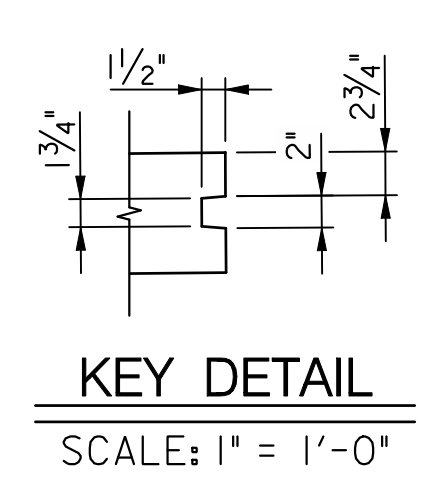
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- NOTE(S):
1. ALL LONGITUDINAL REINFORCING STEEL SHALL BE #5, EPOXY COATED, PLACED AS SHOWN.
 2. OVER THE PIER, ADDITIONAL LONGITUDINAL REINFORCING STEEL SHALL BE ADDED TO THE TOP OF THE PRECAST DECK SLAB BETWEEN THE NORMAL REINFORCING STEEL AS INDICATED WITH OPEN CIRCLES. THE LENGTH OF THE ADDITIONAL REINFORCING STEEL SHALL BE 30'-0" CENTERED ON THE CL BEARING PIER NO. 1.
 3. THERE SHALL BE NO LAP SPlicing OF LONGITUDINAL REINFORCING STEEL WITHIN 15'-0" OF THE CL BEARING PIER NO. 1.
 4. ALTERNATE LAP SPLICE LOCATIONS BETWEEN ADJACENT BARS.
 5. THE MINIMUM REQUIRED LAP LENGTH FOR TOP AND BOTTOM LAYER REINFORCING STEEL SHALL BE 4'-3".
 6. TRANSVERSE REINFORCING STEEL SHALL BE PLACED SUCH THAT THERE IS NO CONFLICT BETWEEN THE \Rightarrow BARS IN THE GROUTED KEYS BETWEEN ADJACENT PRECAST SEGMENTS.



**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**SUPERSTRUCTURE TYPICAL SECTION
AND PRECAST SECTIONS**

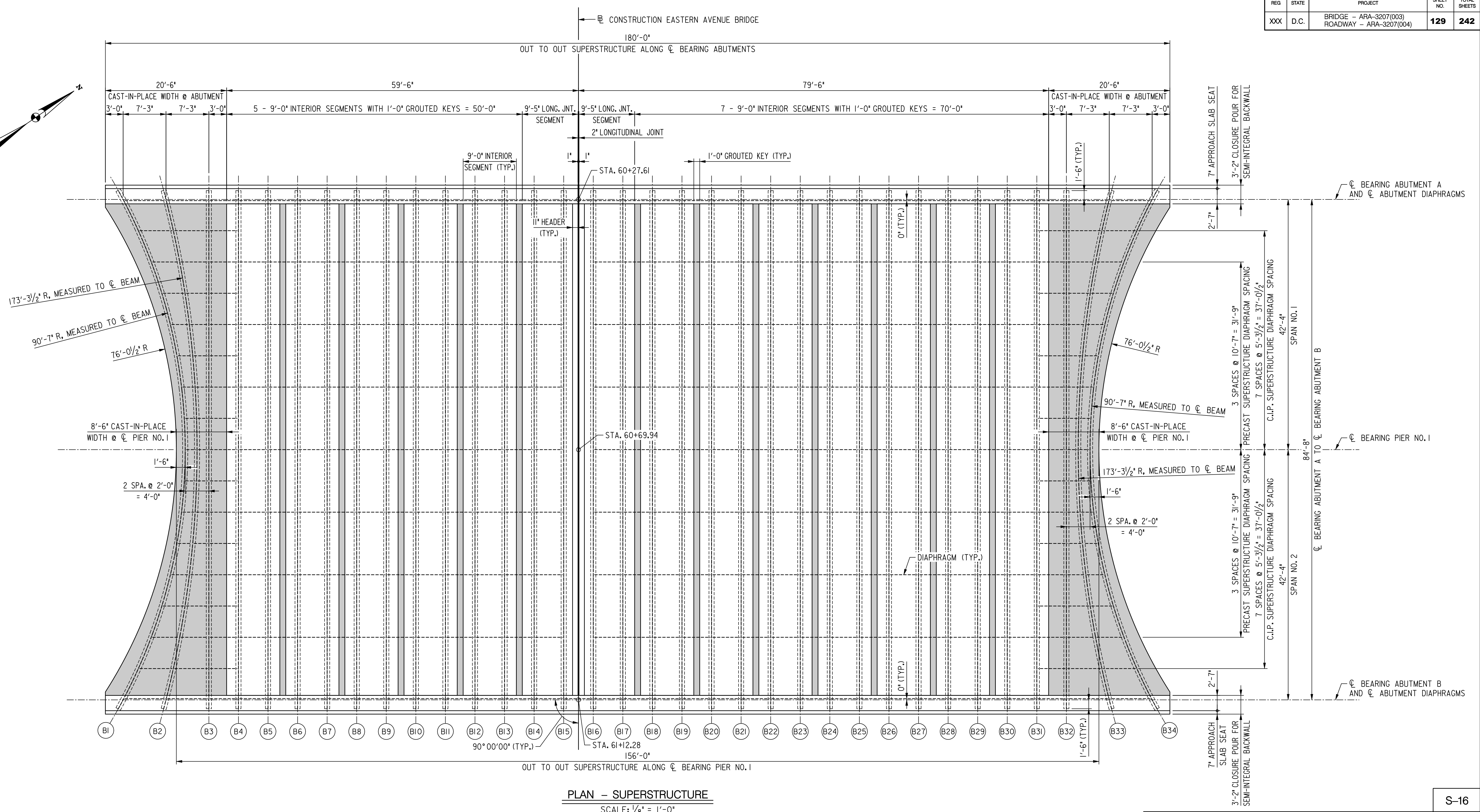
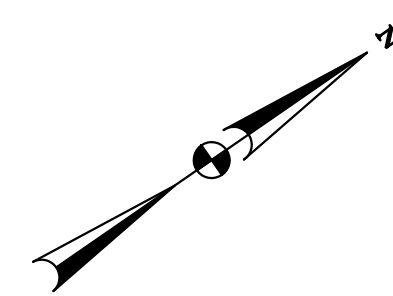
PROJECT ENG.	MC
DESIGNED BY	MC
CHECKED BY	BP
DRAWN BY	MC
PROJECT MGR.	BP
DIVISION CHIEF	
DATE	05 / 01 / 2009
FILE	

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	129	242



PLAN - SUPERSTRUCTURE
SCALE: 1/8" = 1'-0"

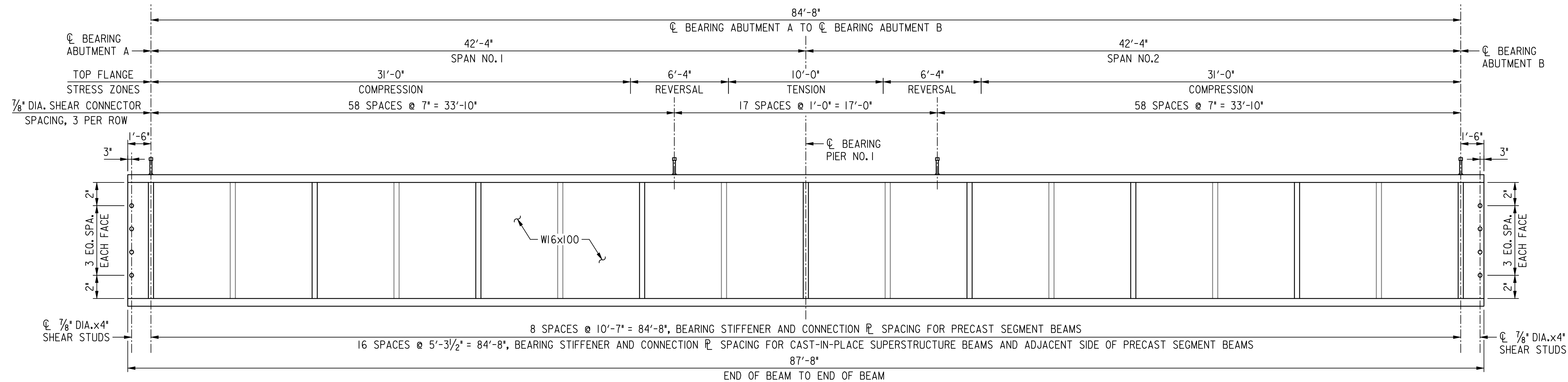
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S-16

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
DIVISION CHIEF	
FRAMING PLAN	
PROJECT ENG. _____ MC DESIGNED BY _____ MC CHECKED BY _____ BP DRAWN BY _____ MC PROJECT MGR. _____ BP	DATE 03/31/2009 FILE _____

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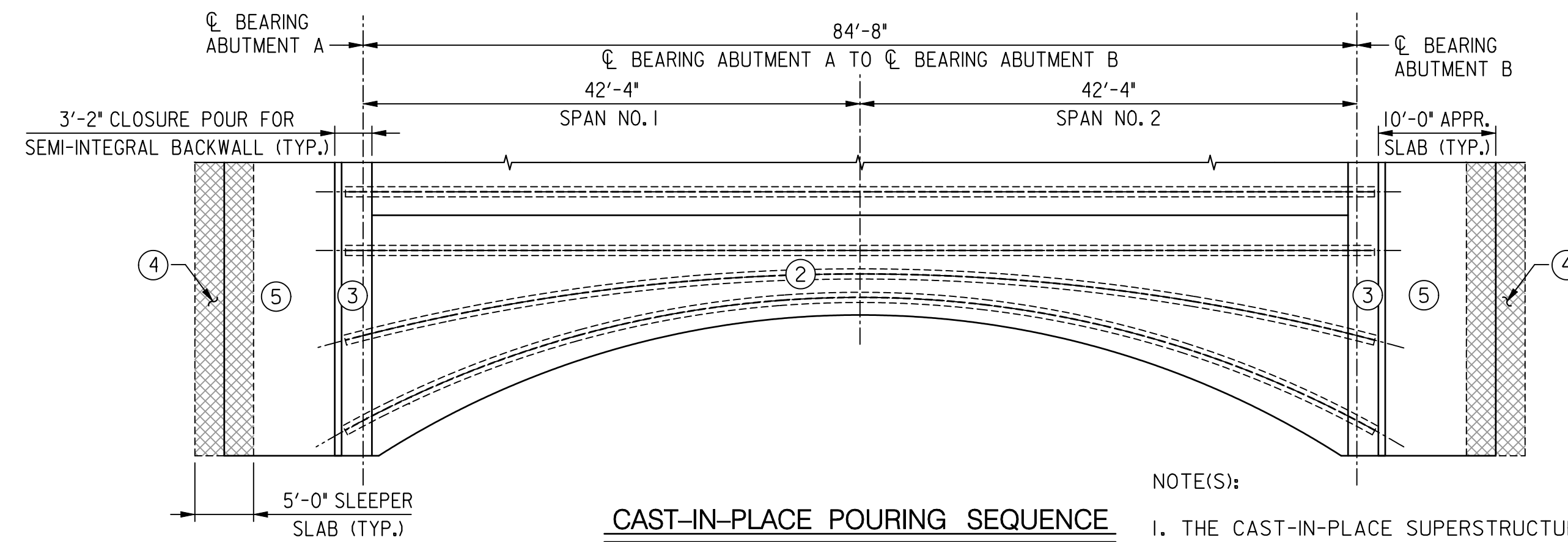
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



BEAM NOS. B3 THRU B32 ELEVATION
NOT TO SCALE

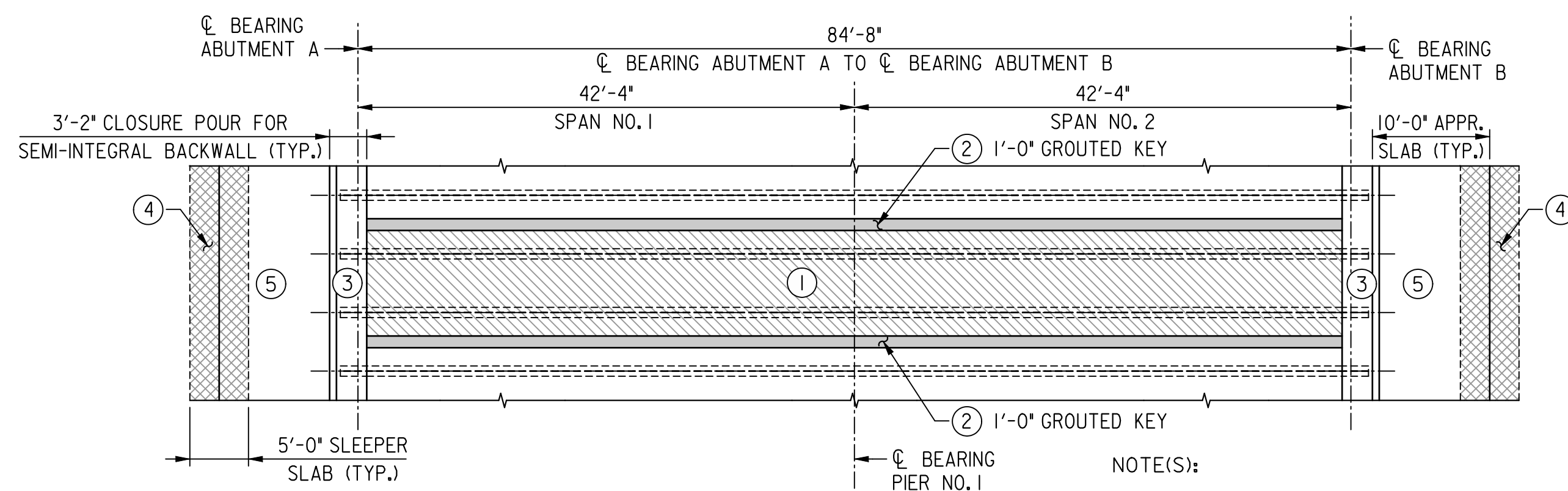
NOTE(S):

1. THERE SHALL BE NO FIELD WELDING TO THE TOP FLANGE, EXCEPT FOR SHEAR STUDS, IN THE TENSION AND STRESS REVERSAL AREAS.
2. FOR BEARING STIFFENER, CONNECTION \bar{C} , SHEAR STUD AND DIAPHRAGM DETAILS, SEE "SUPERSTRUCTURE DETAILS - 1" AND "FRAMING PLAN" SHEETS.



NOTE(S):

1. THE CAST-IN-PLACE SUPERSTRUCTURE DECK SLAB SHALL BE CAST IN ONE CONTINUOUS POUR FROM ONE ABUTMENT TO THE OTHER ABUTMENT IN BETWEEN THE LIMITS OF THE CLOSURE POURS.
2. THE POURING SEQUENCE FOR THE CAST-IN-PLACE DECK, CLOSURE POURS, SLEEPER SLABS AND APPROACH SLABS SHALL BE MADE IN THE NUMBERED ORDER INDICATED: 2, 3, 4 AND 5.
3. THERE MUST BE AT LEAST FORTY (40) HOURS BETWEEN THE COMPLETION OF ONE NUMBERED POUR AND THE START OF THE NEXT NUMBERED POUR WITH THE EXCEPTION OF POUR NOS. 3 AND 4.



NOTE(S):

1. THE PRECAST SUPERSTRUCTURE UNIT DECK SLAB SHALL BE CAST IN ONE CONTINUOUS POUR FROM ONE ABUTMENT TO THE OTHER ABUTMENT IN BETWEEN THE LIMITS OF THE CLOSURE POURS AT THE FABRICATION PLANT.
2. THE POURING SEQUENCE FOR THE GROUTED KEYS, CLOSURE POURS, SLEEPER SLABS AND APPROACH SLABS SHALL BE MADE IN THE NUMBERED ORDER INDICATED: 2, 3, 4 AND 5.
3. THERE MUST BE AT LEAST FORTY (40) HOURS BETWEEN THE COMPLETION OF ONE NUMBERED POUR AND THE START OF THE NEXT NUMBERED POUR WITH THE EXCEPTION OF POUR NOS. 3 AND 4.

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

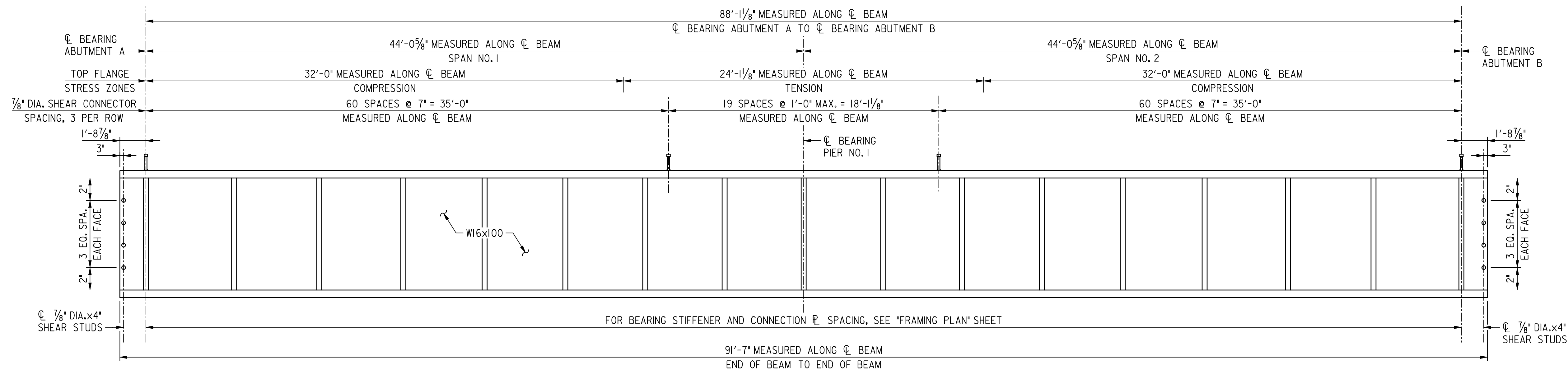
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

PROJECT ENG. MC
DESIGNED BY MC
CHECKED BY BP
DRAWN BY MC
PROJECT MGR. BP

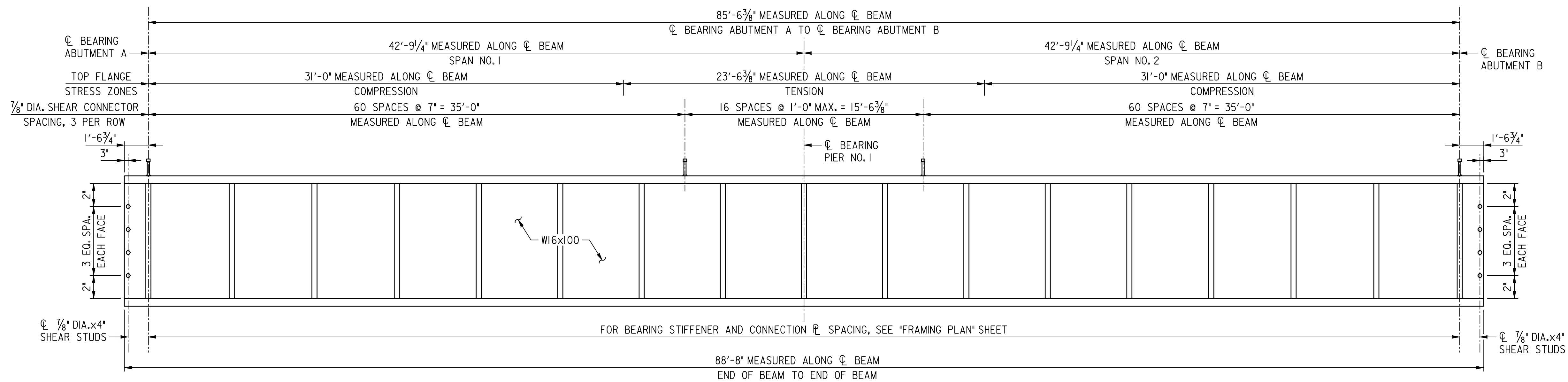
DIVISION CHIEF

DATE 03/31/2009
FILE

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BEAM NOS. B1 AND B34 ELEVATION
NOT TO SCALE



BEAM NOS. B2 AND B33 ELEVATION
NOT TO SCALE

NOTE(S):

1. THERE SHALL BE NO FIELD WELDING TO THE TOP FLANGE, EXCEPT FOR SHEAR STUDS, IN THE TENSION AND STRESS REVERSAL AREAS.
2. FOR BEARING STIFFENER, CONNECTION \square , SHEAR STUD AND DIAPHRAGM DETAILS, SEE "SUPERSTRUCTURE DETAILS - I" AND "FRAMING PLAN" SHEETS.
3. BEAM END SHEAR STUDS, BEARING STIFFENERS AND CONNECTION \square 's SHALL BE PLACED PERPENDICULAR TO \square CONSTRUCTION EASTERN AVENUE BRIDGE.

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

CURVED BEAM ELEVATIONS

PROJECT ENG.	MC
DESIGNED BY	MC
CHECKED BY	BP
DRAWN BY	MC
PROJECT MGR.	BP

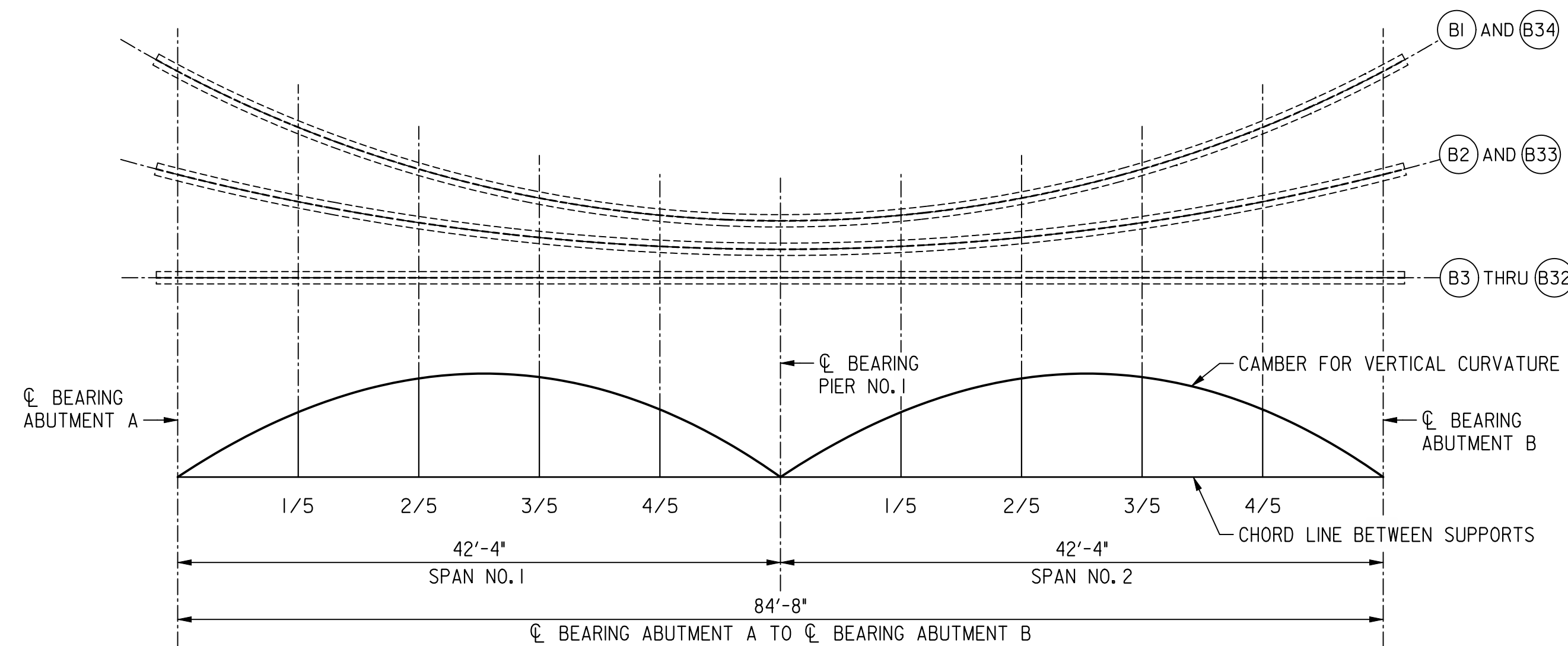
DIVISION CHIEF

DATE: 03 / 31 / 2009
FILE:

NO.	DESCRIPTION	NAME	DATE

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 Wednesday, April 29, 2009 AT 08:55 AM



SCHEMATIC CAMBER DIAGRAM
NOT TO SCALE

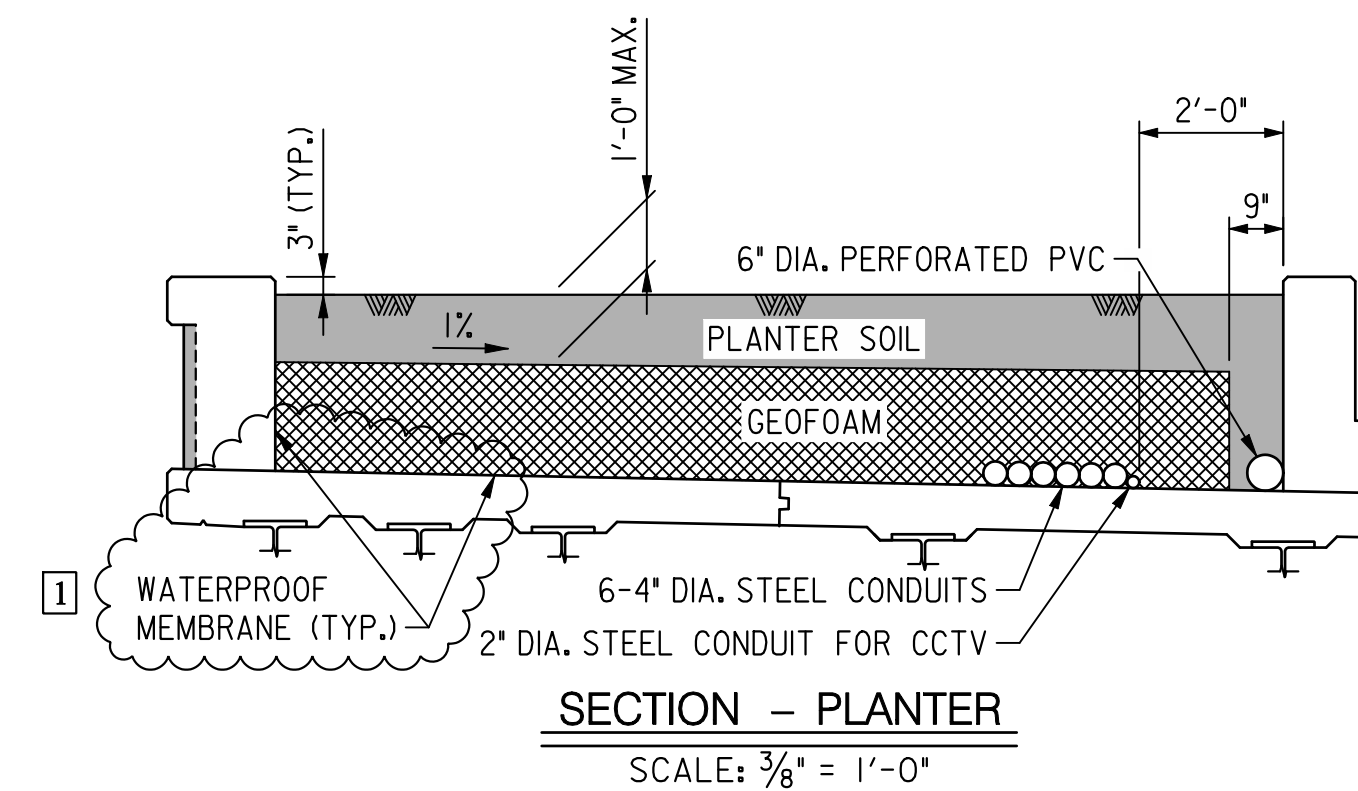
DESCRIPTION		SPAN 1					SPAN 2					
		CL BRG. ABUT. A	1/5	2/5	3/5	4/5	CL BRG. PIER NO. 1	1/5	2/5	3/5	4/5	CL BRG. ABUT. B
BI	V.C. CAMBER	0	1/4"	3/8"	3/8"	1/4"	0	1/4"	3/8"	3/8"	1/4"	0
B2	V.C. CAMBER	0	1/2"	3/4"	3/4"	1/2"	0	1/2"	3/4"	3/4"	1/2"	0
B3 THRU B32	V.C. CAMBER	0	1/6"	1"	1"	1/6"	0	1/6"	1"	1"	1/6"	0
B33	V.C. CAMBER	0	1/6"	1 3/16"	1 3/16"	1/6"	0	1/6"	1 3/16"	1 3/16"	1/6"	0
B34	V.C. CAMBER	0	7/8"	1 3/8"	1 3/8"	7/8"	0	7/8"	1 3/8"	1 3/8"	7/8"	0

V.C. CAMBER = CAMBER REQUIRED FOR VERTICAL CURVE

POSITIVE CAMBERS ARE UPWARD CAMBERS.

ALL GIRDERS SHALL BE CAMBERED FOR VERTICAL CURVE ORDINATES TO THE DIMENSIONS SHOWN ON PLANS. THE CAMBER TOLERANCE IS NOTHING UNDER TO ONE HALF (1/2) INCH OVER.

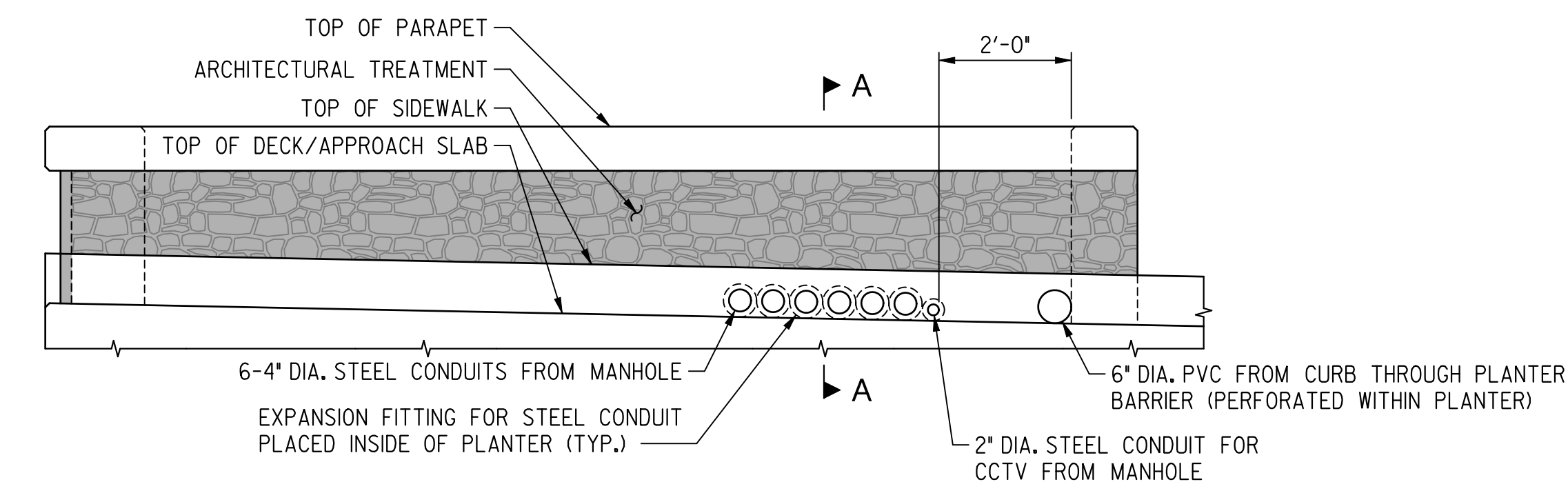
NO DEAD LOAD CAMBER IS REQUIRED FOR THE BEAMS.



SECTION - PLANTER
SCALE: 3/8" = 1'-0"

NOTE(S):

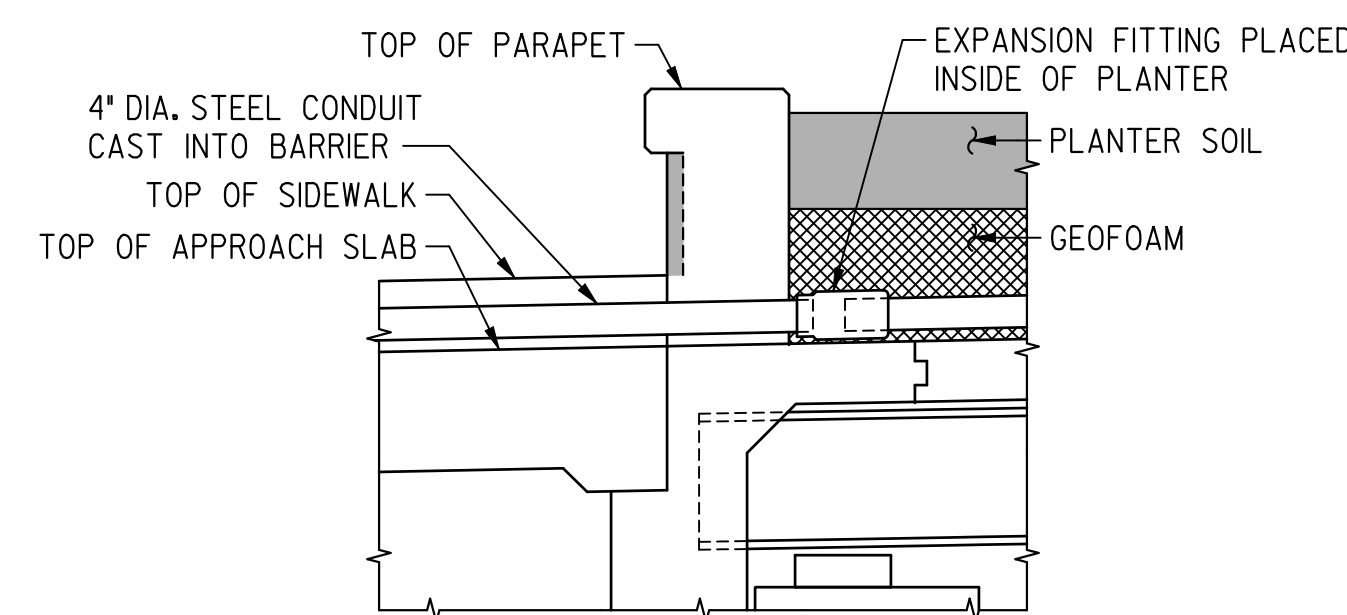
1. THE MAXIMUM ALLOWABLE GEOFOAM UNIT WEIGHT SHALL BE 5 PCF.
2. THE GEOFOAM SHALL BE SLOPED TO DRAIN TO THE 6" DIA. PERFORATED PVC.
3. THE 6" DIA. PERFORATED PVC SHALL CONTINUE BEYOND THE PLANTER BENEATH THE SIDEWALK/CURB AND OUTLET AT THE FACE OF CURB.
4. ONLY THE SOUTH PLANTER SHALL HAVE 6-4" DIA. AND 1-2" DIA. STEEL CONDUITS. THE 4" DIA. CONDUITS SHALL CONTINUE TO THE MANHOLES BEYOND THE BRIDGE. THE 2" DIA. CONDUIT SHALL COME FROM THE EAST END OF THE BRIDGE AND TERMINATE AT THE CCTV POLE PEDESTAL. FOR DETAILS, SEE UTILITY PLAN IN 'SG' DRAWINGS.
5. THE MAXIMUM ALLOWABLE SOIL DEPTH SHALL BE 1'-0".
6. WATERPROOF MEMBRANE SHALL BE INSTALLED ALONG THE INTERIOR FACE OF THE PLANTER BARRIERS FROM 6" BELOW THE TOP OF BARRIER AND ALONG THE BOTTOM OF THE PLANTER.



ELEVATION - BARRIER END
SCALE: 1/2" = 1'-0"

NOTE(S):

1. REINFORCING STEEL IN BARRIER, DECK AND SIDEWALK NOT SHOWN FOR CLARITY.
2. CONDUITS SHALL BE CAST INTO THE BARRIER WITH EXPANSION FITTINGS PLACED INSIDE THE PLANTER AT BOTH ENDS OF THE BRIDGE FOR THE 4" DIA. STEEL CONDUIT AND AT THE EAST END OF THE BRIDGE FOR THE 2" DIA. STEEL CONDUIT.
3. FOR SECTION A-A, SEE THIS SHEET.



SECTION A-A - CONDUIT THRU BARRIER
SCALE: 1/2" = 1'-0"

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

CAMBER DIAGRAM AND
PLANTER DETAILS

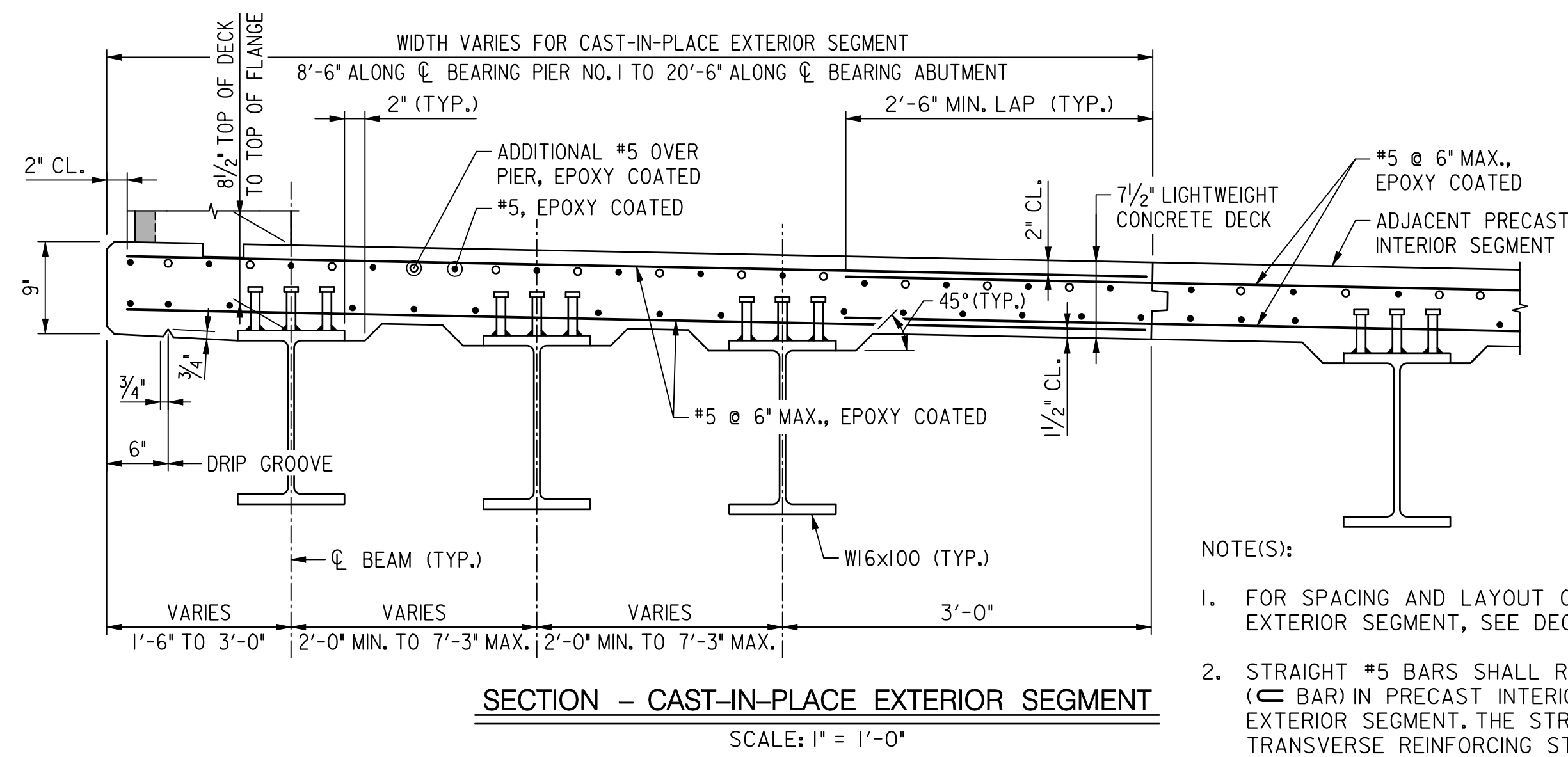
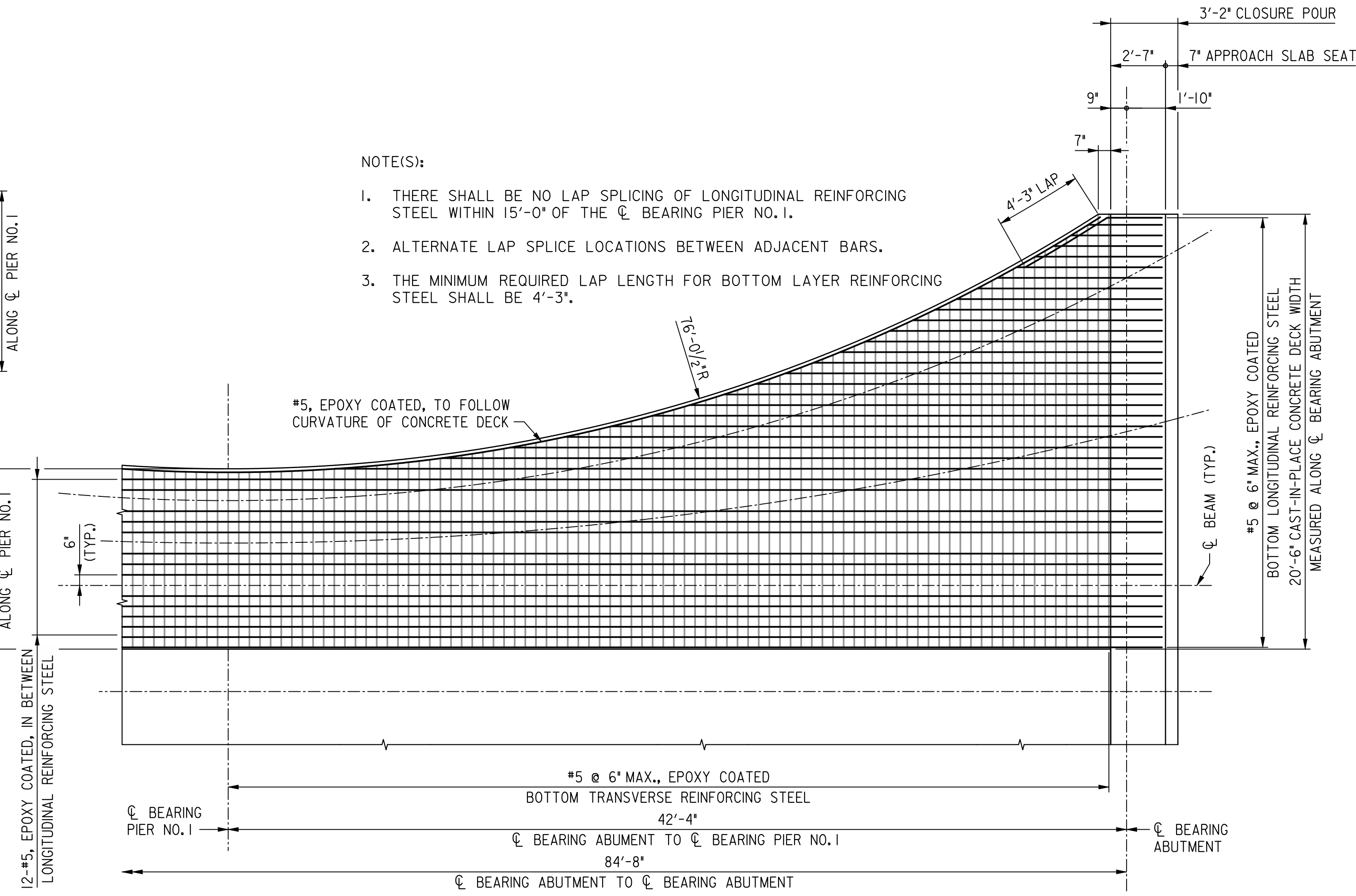
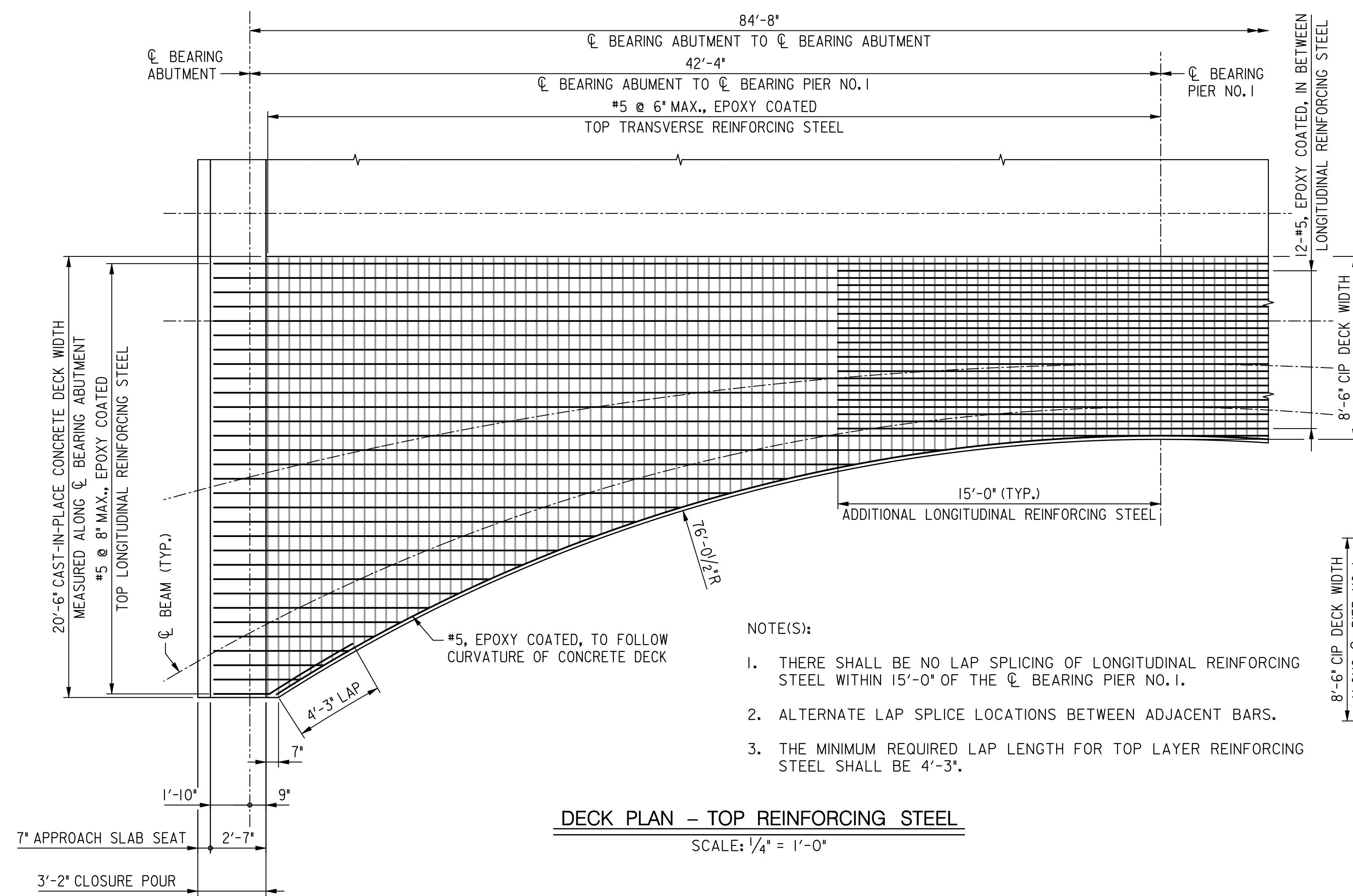
PROJECT ENG. MC
DESIGNED BY MC
CHECKED BY BP
DRAWN BY MC
PROJECT MGR. BP

DIVISION CHIEF

DATE 05/01/2009
FILE

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1	REVISED DETAIL	MC	7/10/2009
REVISIONS			



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**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**CAST-IN-PLACE
SUPERSTRUCTURE
DETAILS**

PROJECT ENG.	MC
DESIGNED BY	MC
CHECKED BY	BP
DRAWN BY	MC
PROJECT MGR.	BP

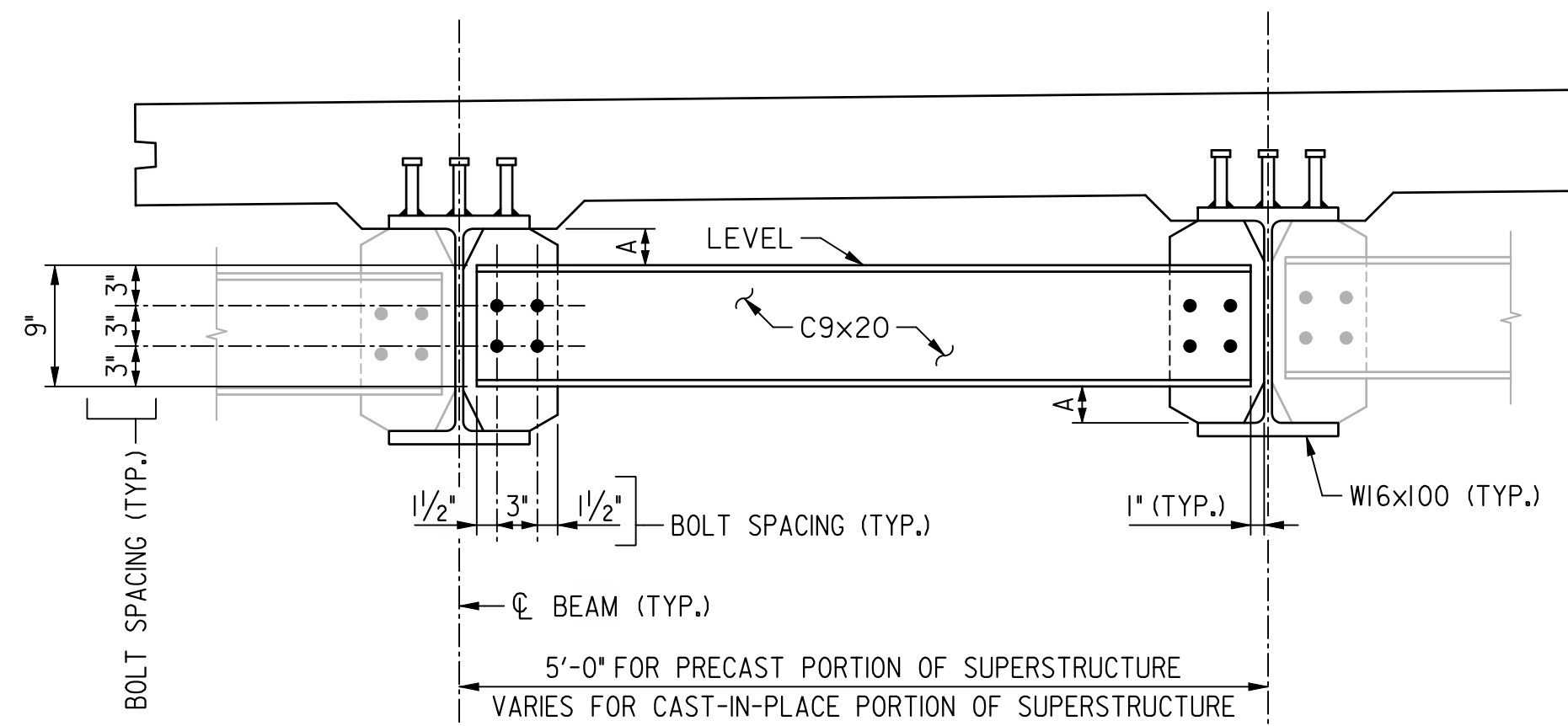
DIVISION CHIEF

DATE: 05 / 01 / 2009
FILE:

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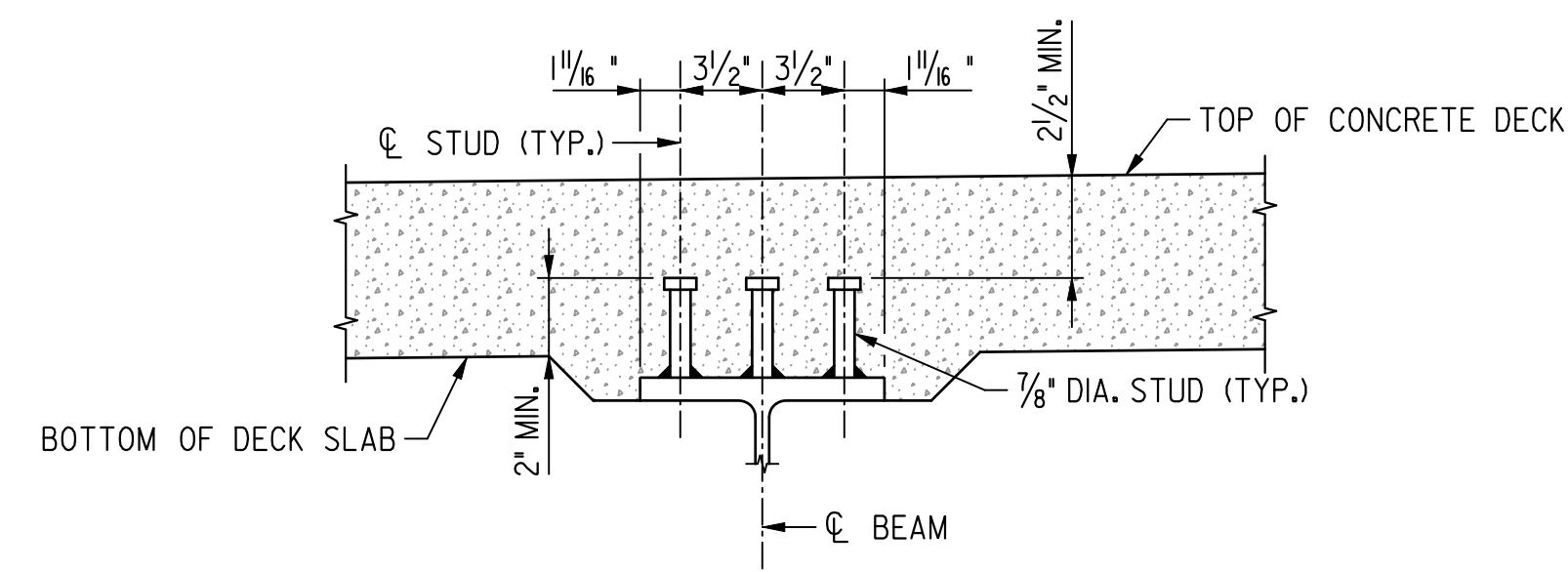
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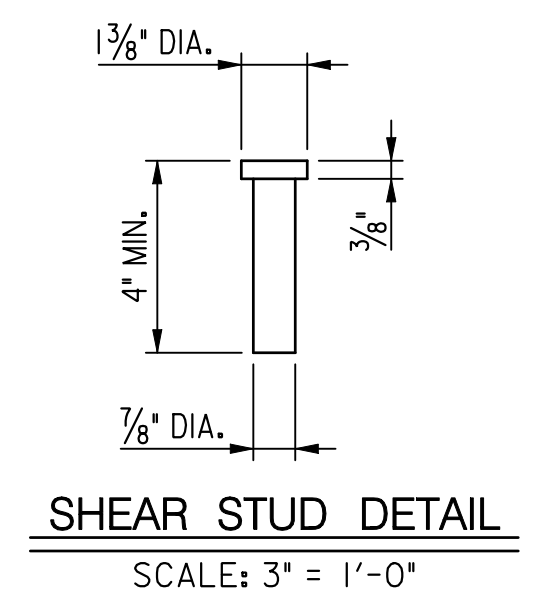


DIAPHRAGMS
SCALE: 1" = 1'-0"

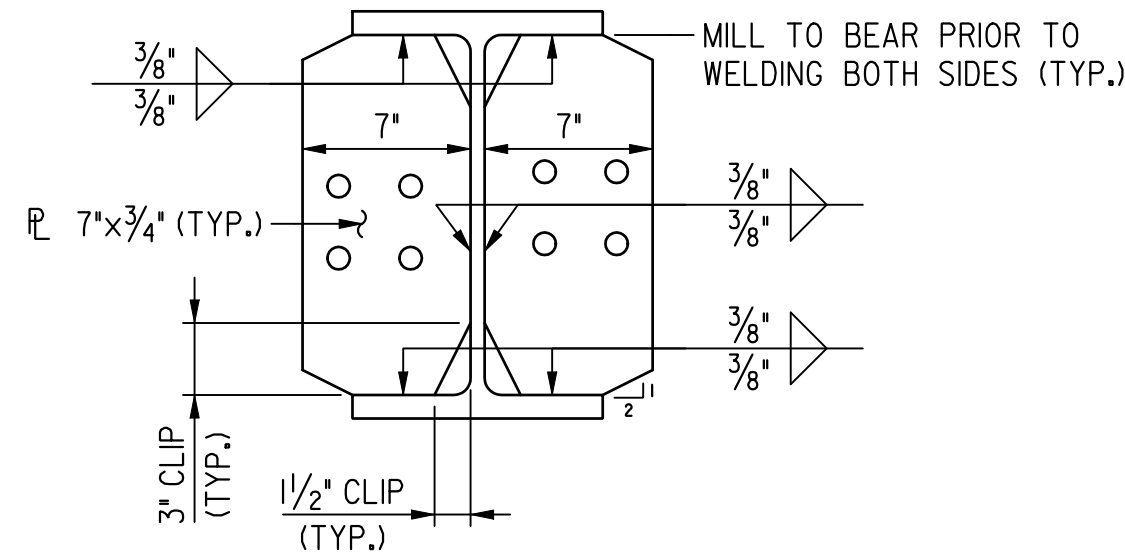
- NOTE(S):
1. PLACE DIAPHRAGM SO THAT MINIMUM DISTANCES FROM FLANGES, SHOWN AS DIMENSION "A", ARE EQUAL.
 2. DIAPHRAGMS BETWEEN BEAMS OF A PRECAST SEGMENT ARE TO BE COMPLETELY CONNECTED TO THE BEAMS BEFORE THE DECK SLAB IS POURED. DIAPHRAGMS BELOW THE CLOSURE POURS BETWEEN PRECAST SEGMENTS ARE TO BE COMPLETELY CONNECTED TO THE BEAMS BEFORE THE CLOSURE POUR IS MADE. DIAPHRAGMS BETWEEN BEAMS OF THE CAST-IN-PLACE PORTION OF SUPERSTRUCTURE ARE TO BE COMPLETELY CONNECTED TO THE BEAMS BEFORE THE DECK SLAB IS POURED.
 3. ALL BOLTS TO BE 7/8" DIAMETER HIGH STRENGTH BOLTS (ASTM A 325).
 4. ALL BOLTS HOLES TO BE 15/16" DIAMETER.



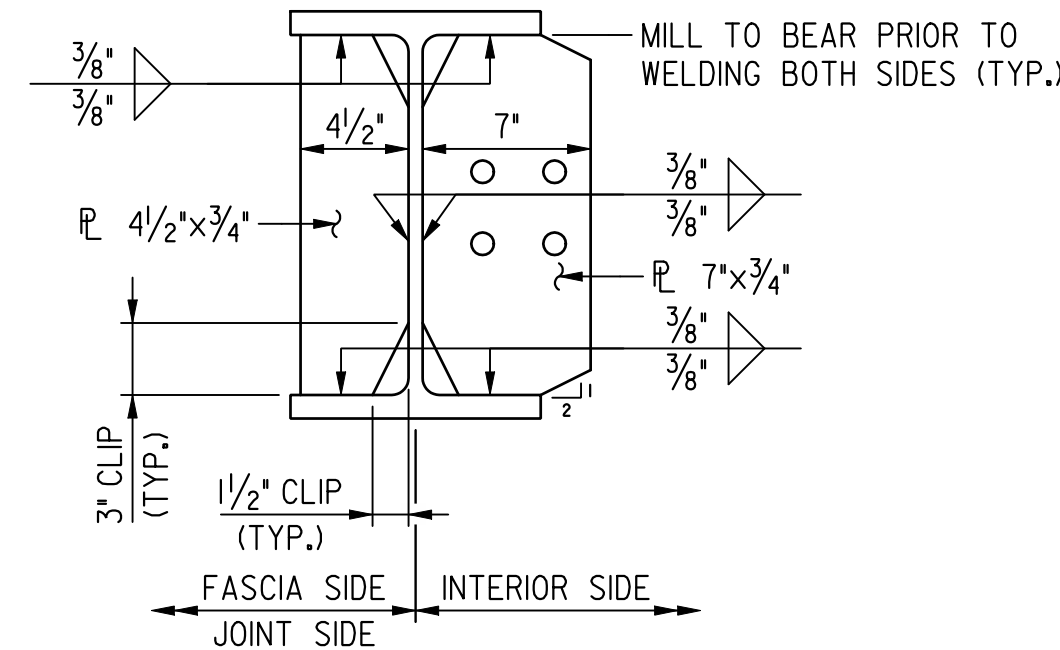
SHEAR CONNECTOR DETAIL
SCALE: 1 1/2" = 1'-0"



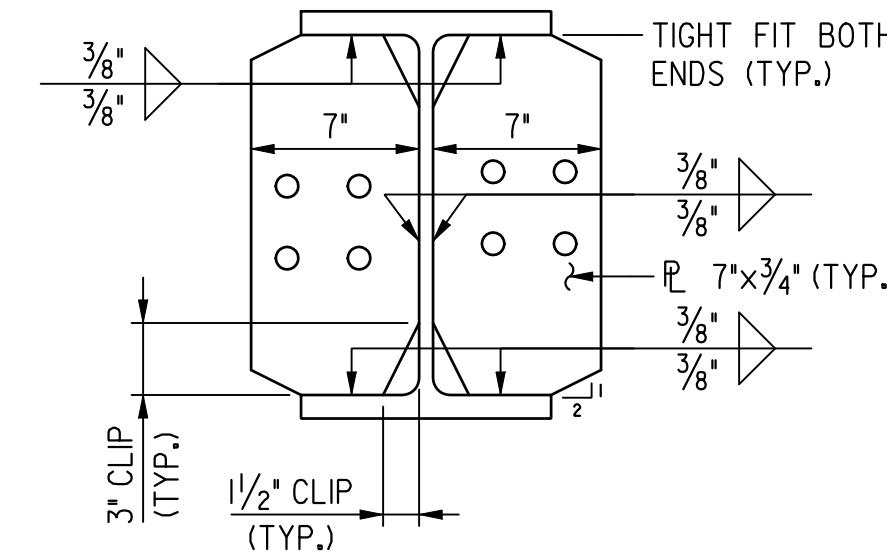
SHEAR STUD DETAIL
SCALE: 3" = 1'-0"



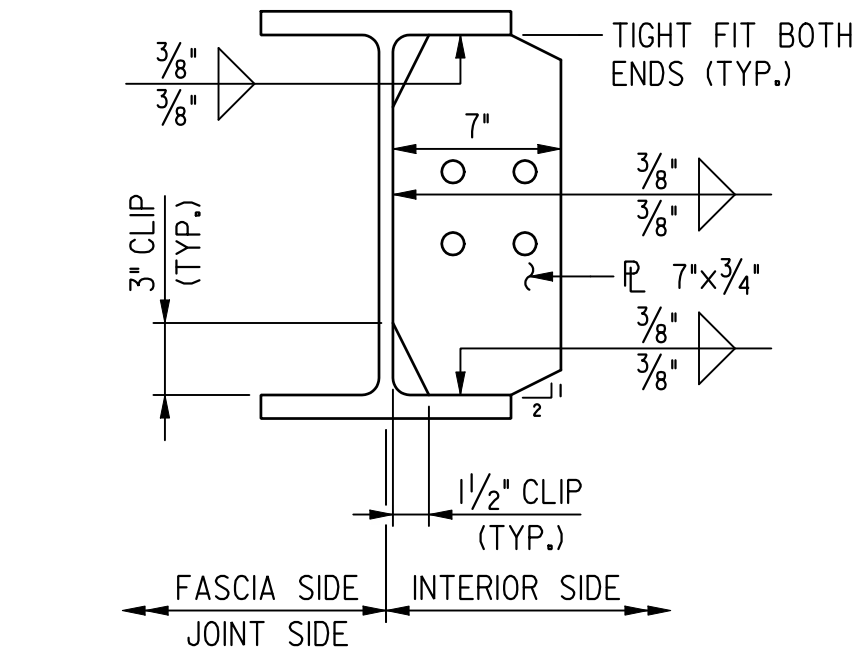
INTERIOR BEAM BEARING STIFFENER
SCALE: 1 1/2" = 1'-0"



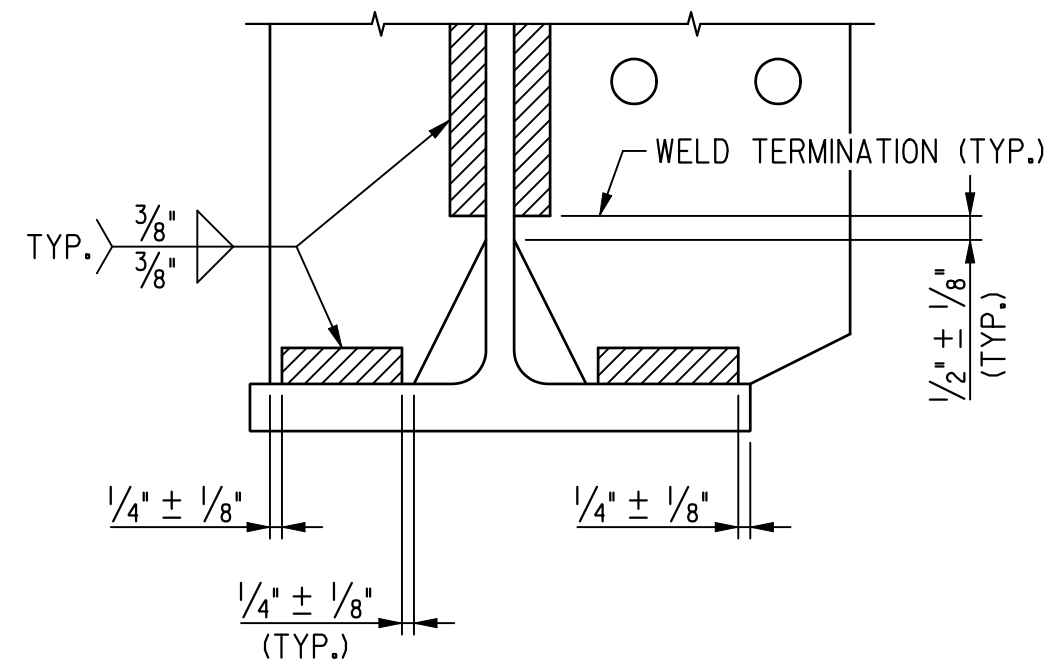
EXTERIOR BEAM AND LONGITUDINAL JOINT BEAM BEARING STIFFENER
SCALE: 1 1/2" = 1'-0"



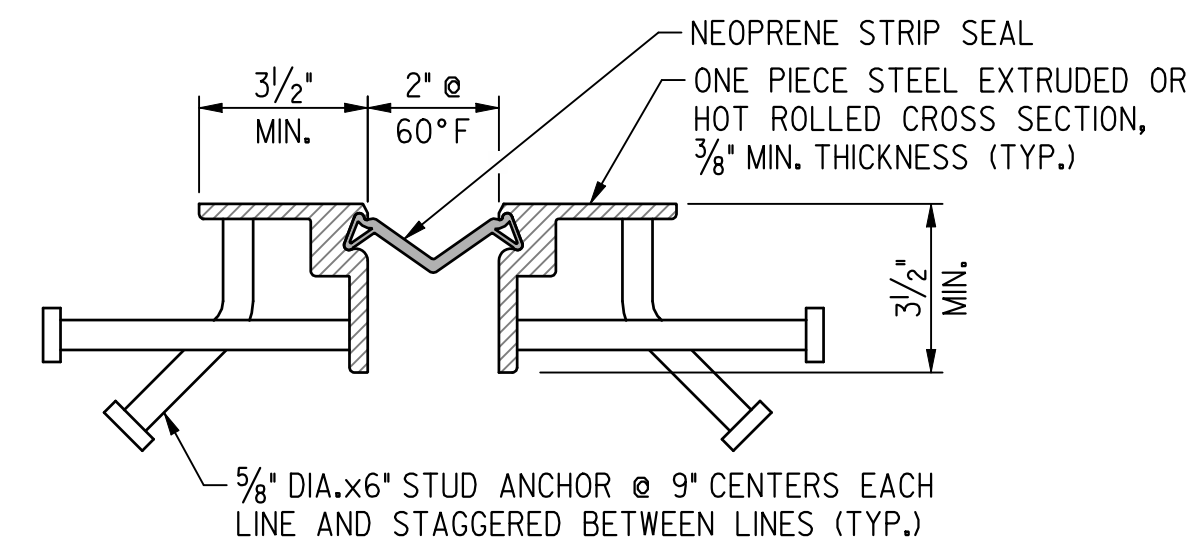
INTERIOR BEAM CONNECTION PLATES
SCALE: 1 1/2" = 1'-0"



EXTERIOR BEAM AND LONGITUDINAL JOINT BEAM CONNECTION PLATES
SCALE: 1 1/2" = 1'-0"



WELD TERMINATION DETAIL
SCALE: 3" = 1'-0"



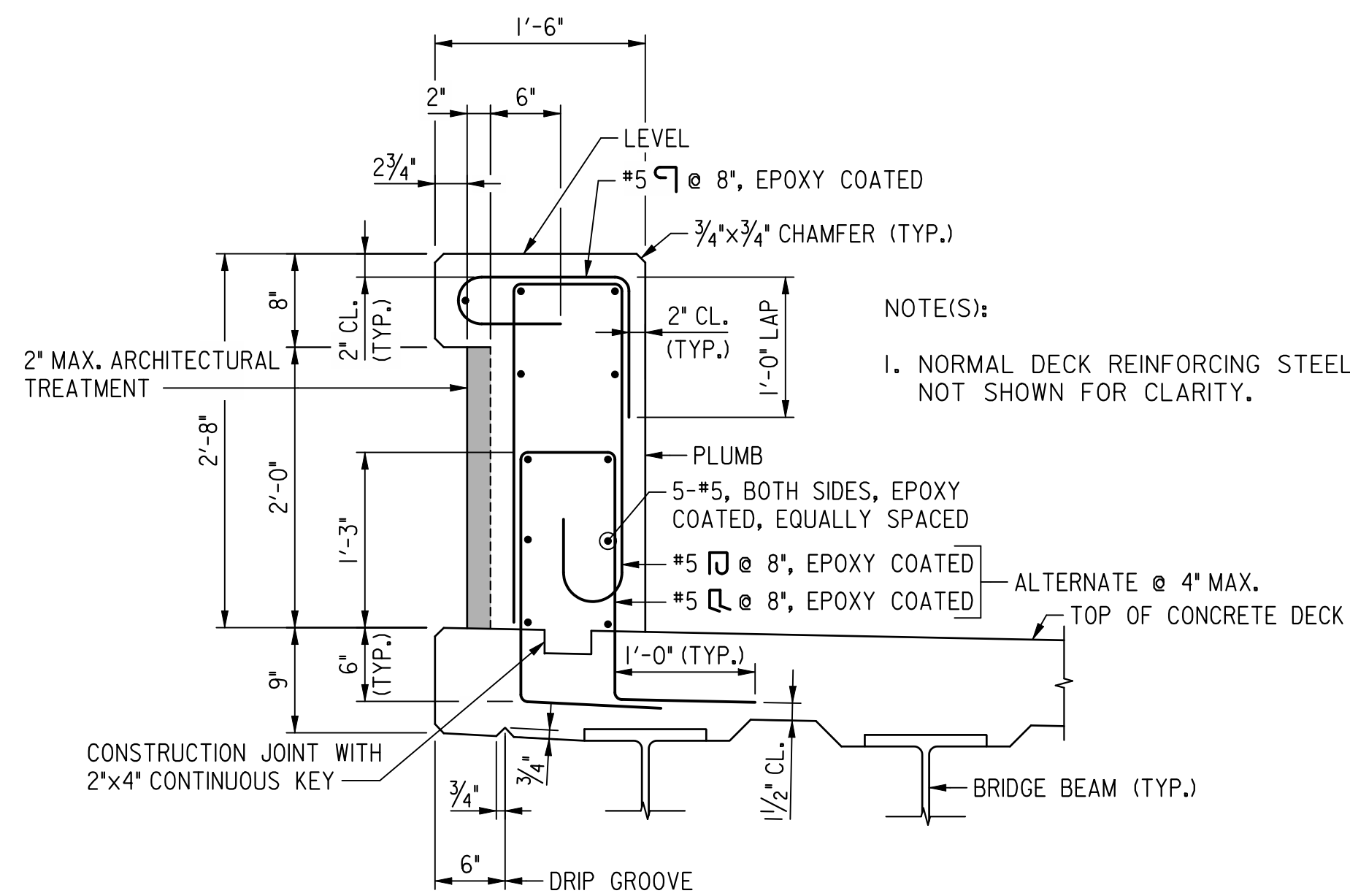
LONGITUDINAL JOINT DETAIL
SCALE: 3" = 1'-0"

- NOTE(S):
1. TOP OF ARMOR FOR LONGITUDINAL JOINT STRIP SEAL SHALL BE SET BELOW TOP OF SLAB IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION OR 1/8", WHICHEVER IS GREATER.
 2. CONCRETE SHALL BE PLACED BENEATH THE DAM IN SUCH A MANNER AS TO PREVENT THE FORMATION OF AIR POCKETS IN THE CONCRETE.
 3. LONGITUDINAL JOINT ARMOR AND STRIP SEAL SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 717.
 4. THE TOTAL ALLOWABLE MOVEMENT SHALL BE 1/8".

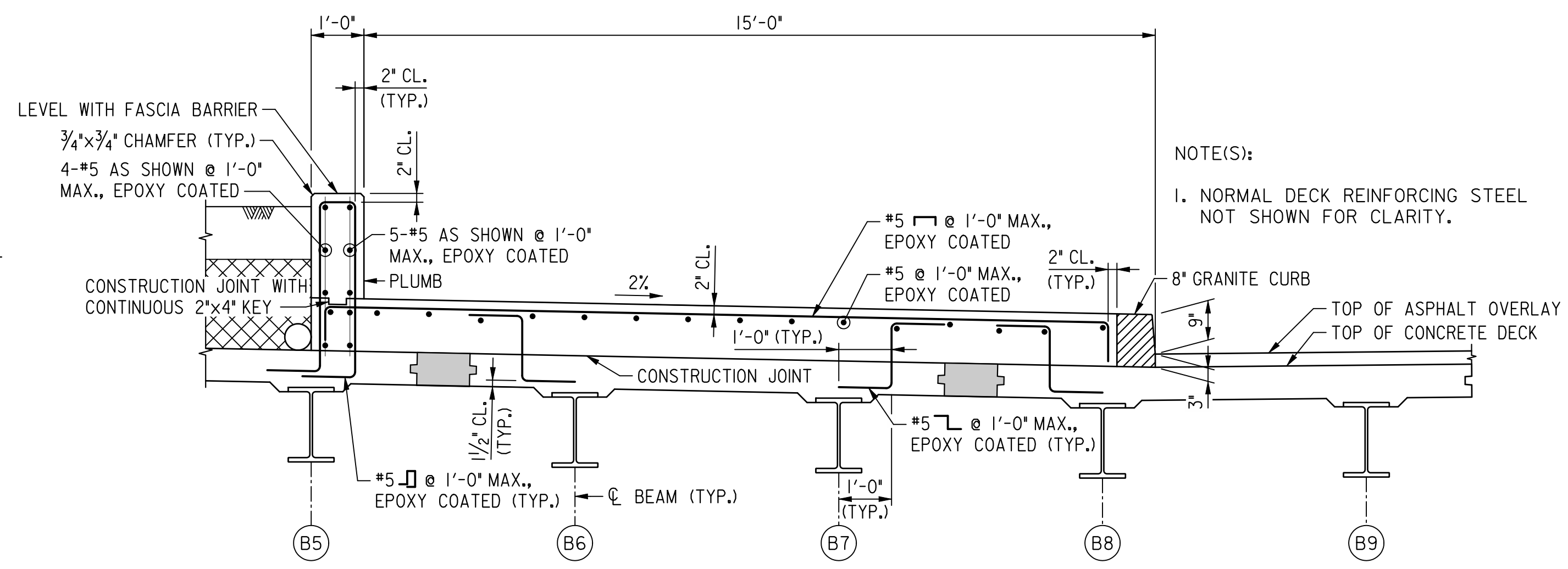
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. MC DESIGNED BY MC CHECKED BY BP DRAWN BY MC PROJECT MGR. BP
DIVISION CHIEF	
SUPERSTRUCTURE DETAILS - 1	
DATE 03/31/2009 FILE	

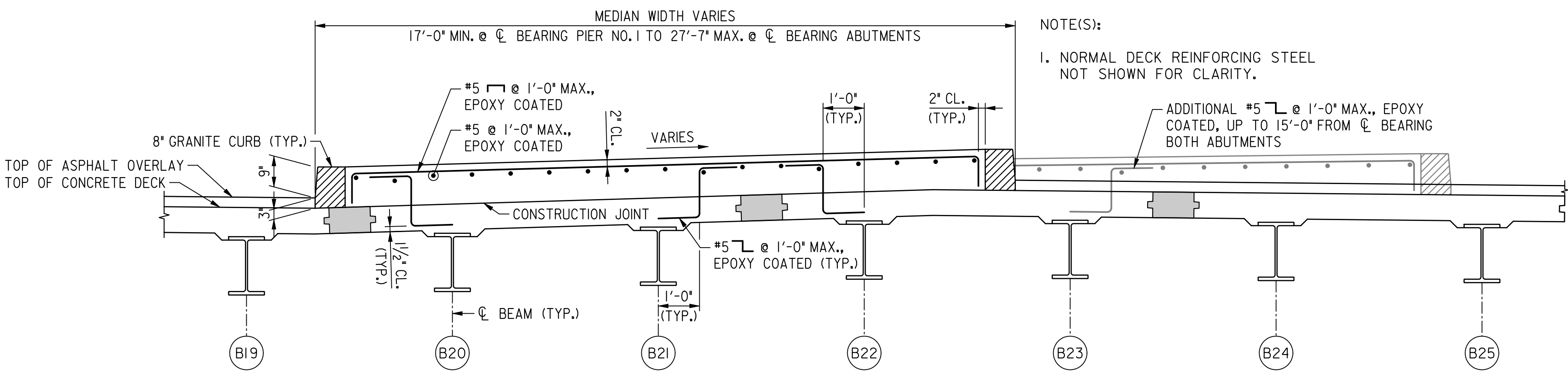
GREENHORNE & O'MARA CONSULTING ENGINEERS 6110 FROST PLACE, LAUREL, MD 20707 PHONE: (301) 982-2800 FAX: (240) 542-3193 www.G-and-O.com	NO.	DESCRIPTION	NAME	DATE
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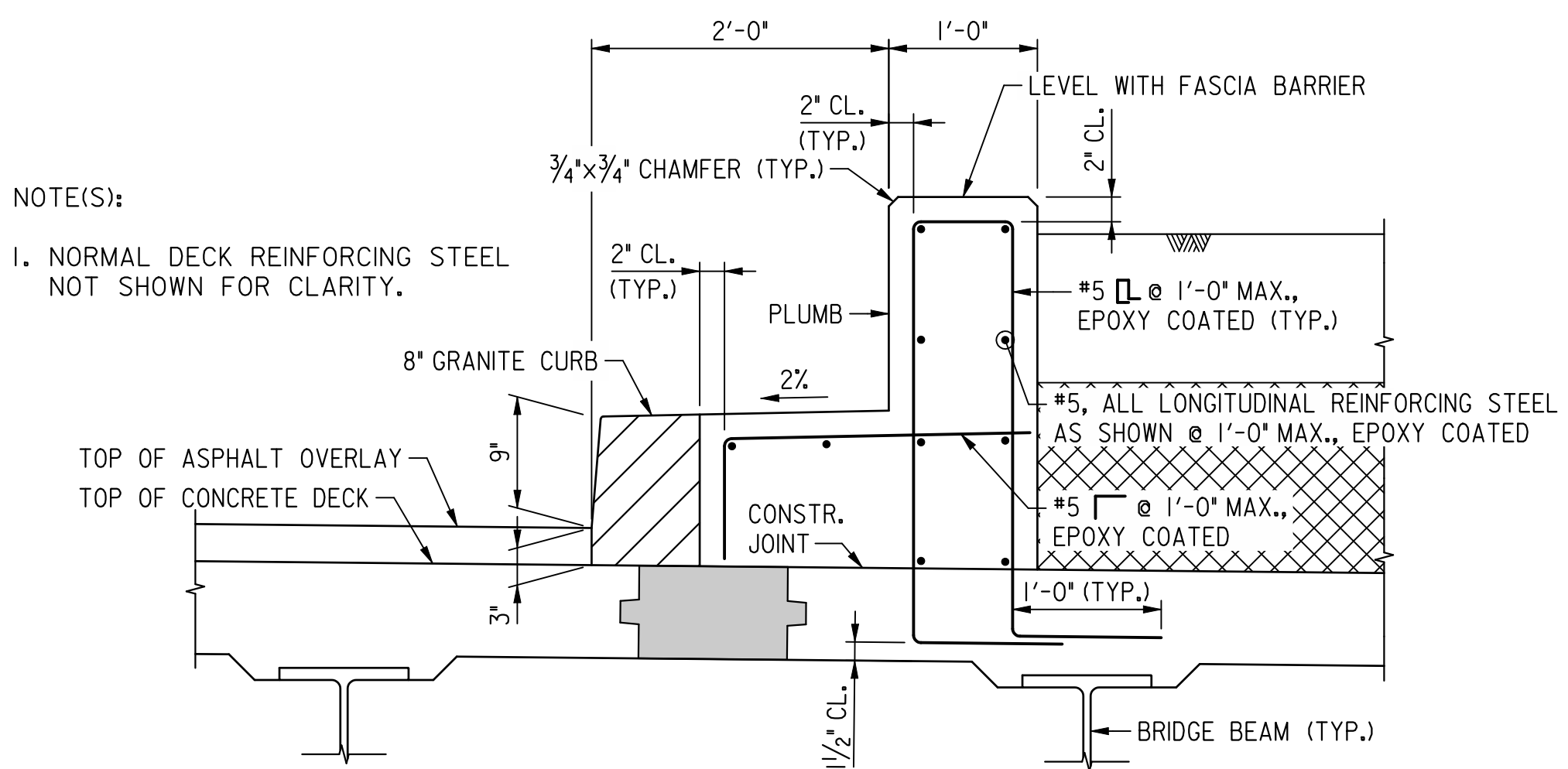
SECTION - FASCIA BARRIER
SCALE: 1" = 1'-0"



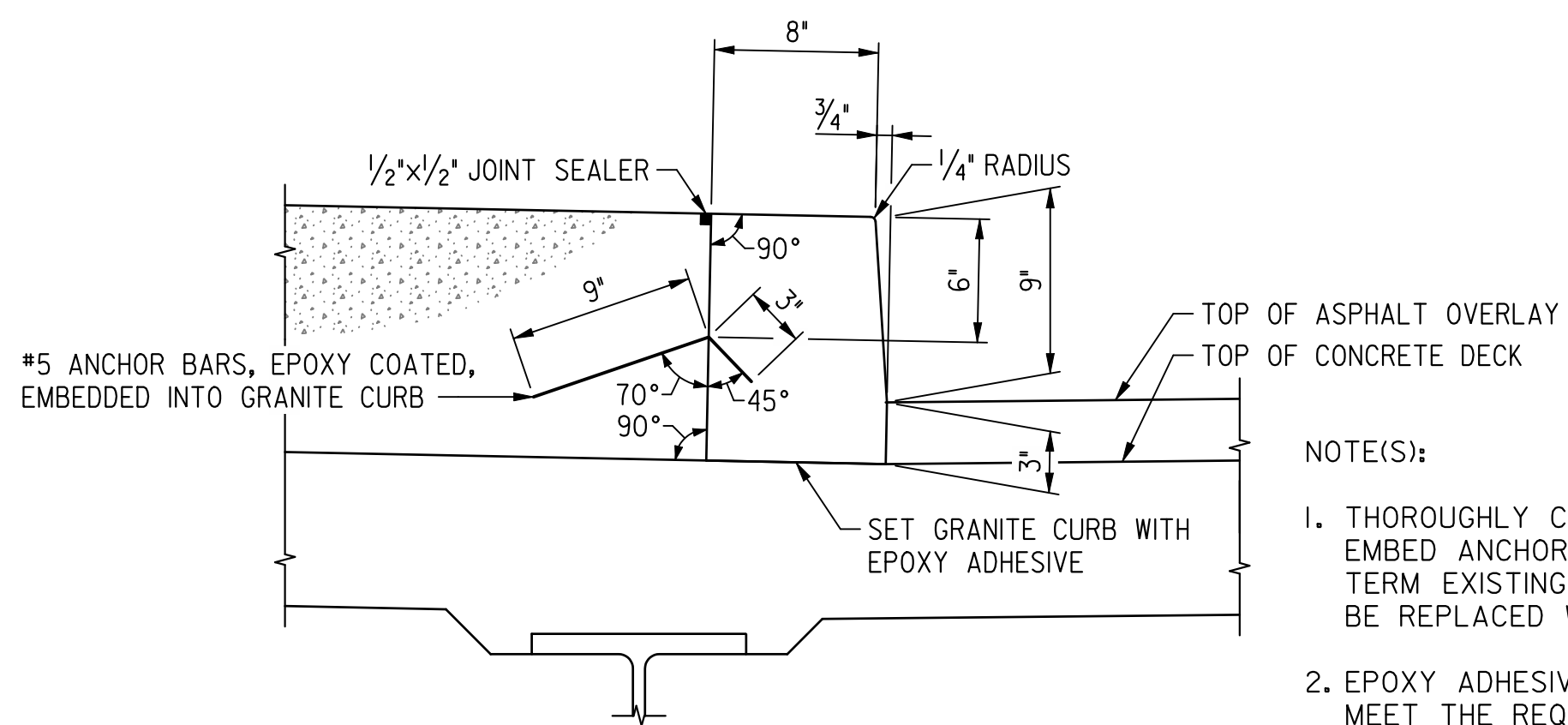
SECTION - PLANTER WITH SIDEWALK
SCALE: 1/2" = 1'-0"



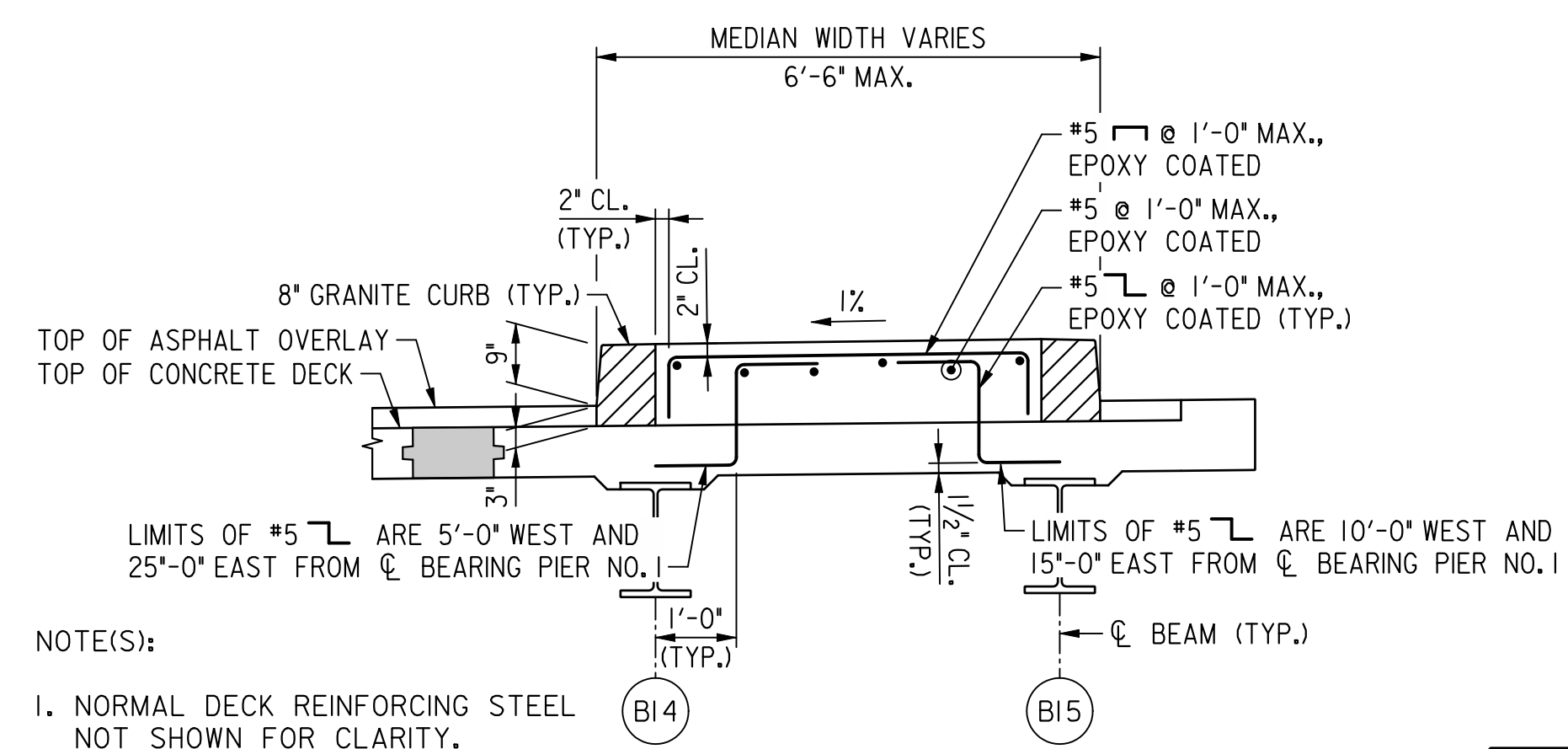
SECTION - MEDIAN WITH SIDEWALK
SCALE: 1/2" = 1'-0"



SECTION - PLANTER WITH CURB
SCALE: 1" = 1'-0"



GRANITE CURB ON BRIDGE DETAILS
SCALE: 1 1/2" = 1'-0"



SECTION - STRIPING WITH MEDIAN
SCALE: 1/2" = 1'-0"

- NOTE(S):
- THOROUGHLY CLEAN AND DRY DRILLED HOLES IN GRANITE AND EMBED ANCHOR BARS PER DDOT SPEC. SEC. 822.08(B)(2)(c). THE TERM EXISTING PCC IN THE REFERENCED SPECIFICATION SHALL BE REPLACED WITH GRANITE.
 - EPOXY ADHESIVE USED TO SET THE GRANITE CURBS SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 822.08(B)(1)
 - ANCHOR BARS SHALL BE LOCATED AT 3" FROM EACH END OF A GRANITE CURB SECTION AND AT 1'-6" MAXIMUM SPACING. ANCHORS BARS SHALL MEET THE REQUIREMENTS OF DDOT SPEC. SEC. 704.09.
 - DRILLED HOLES IN GRANITE SHALL HAVE 3/4" DIAMETER.

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**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

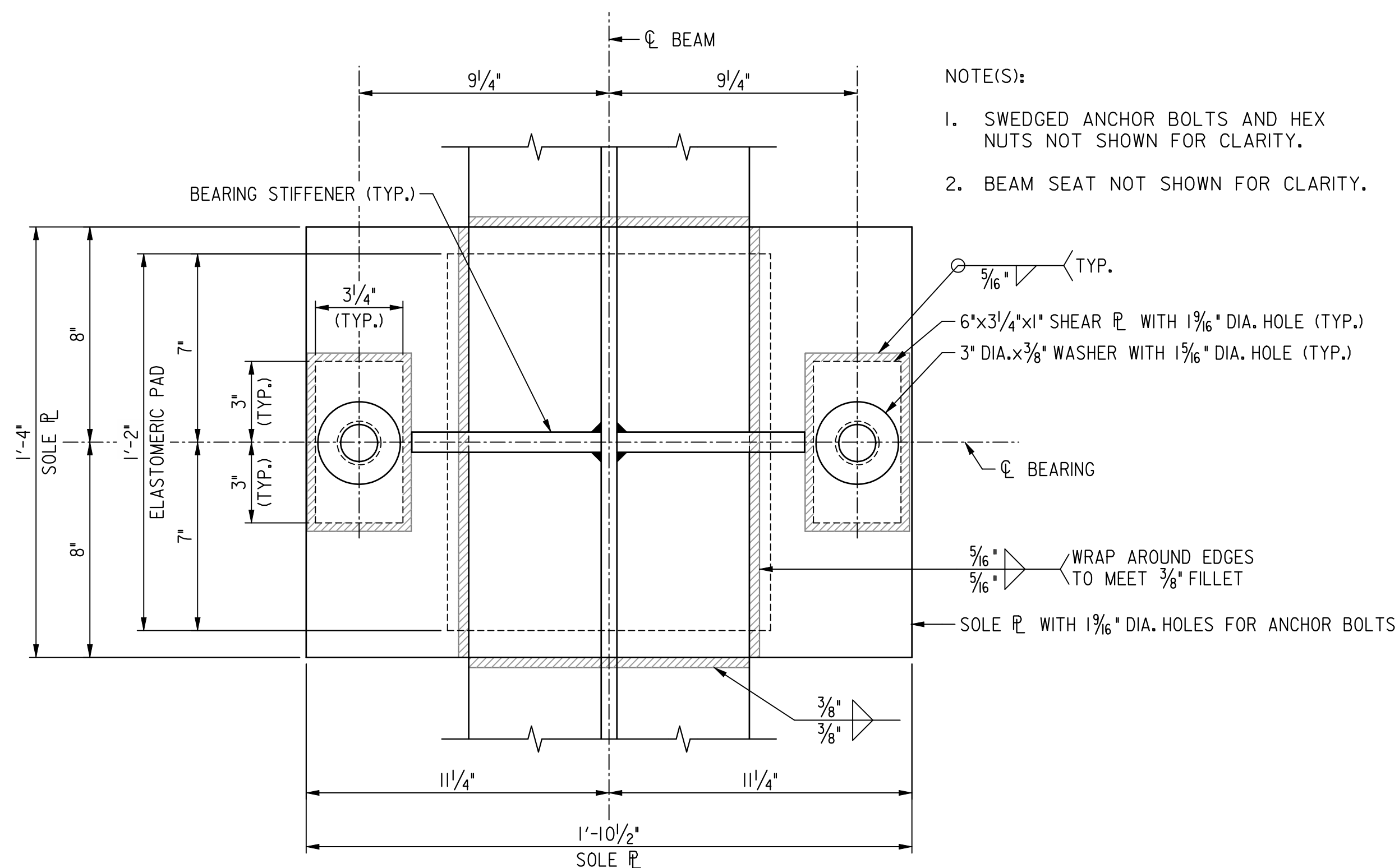
SUPERSTRUCTURE DETAILS - 2

PROJECT ENG.	MC
DESIGNED BY	MC
CHECKED BY	BP
DRAWN BY	MC
PROJECT MGR.	BP
DIVISION CHIEF	
DATE	03 / 31 / 2009
FILE	

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REVISIONS			

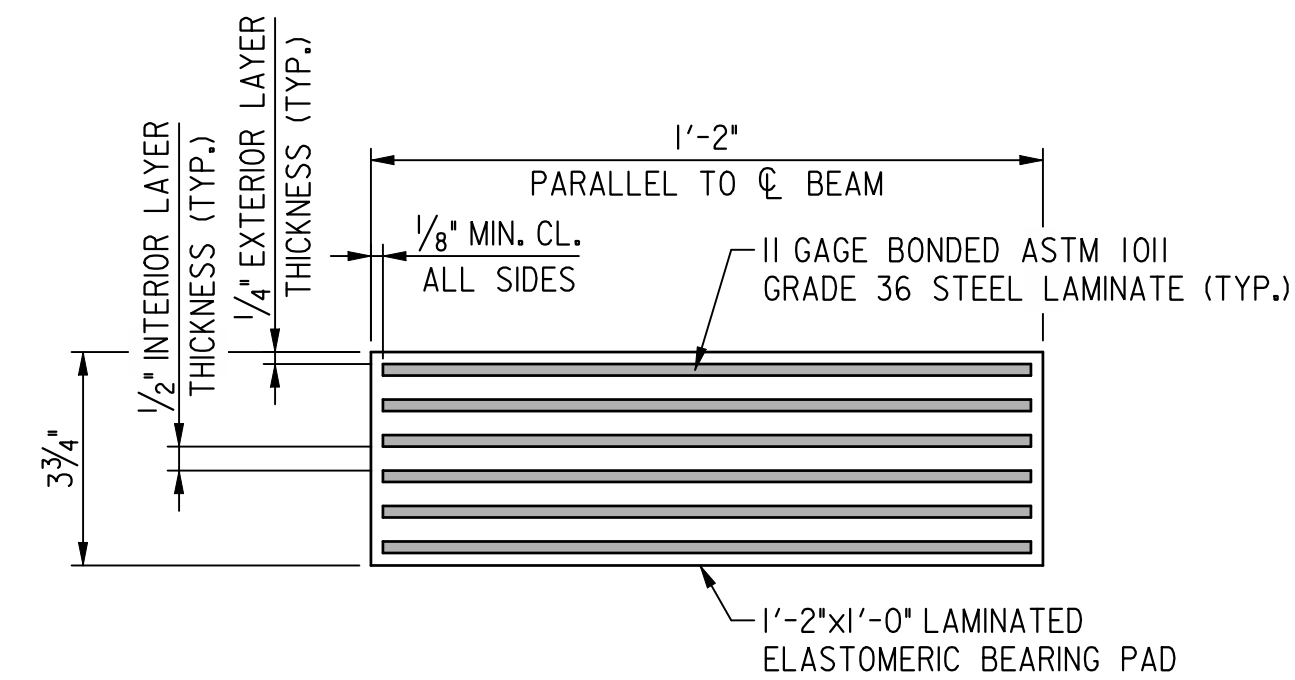
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PLAN - FIXED BEARING

SCALE: 3" = 1'-0"

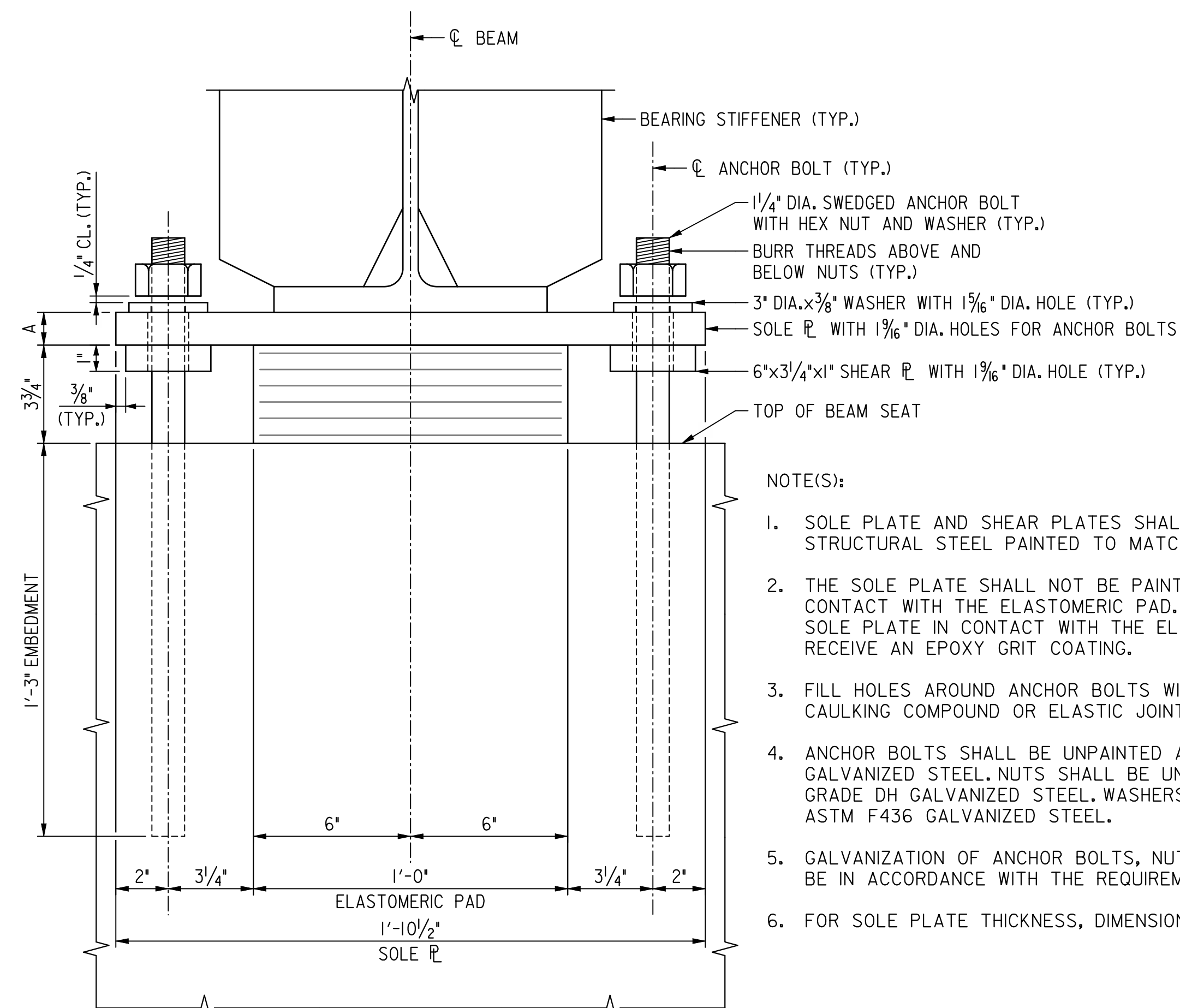
- NOTE(S):
1. SWEDGED ANCHOR BOLTS AND HEX NUTS NOT SHOWN FOR CLARITY.
 2. BEAM SEAT NOT SHOWN FOR CLARITY.



STEEL REINFORCED ELASTOMERIC FIXED BEARING DETAIL

SCALE: NOT TO SCALE

- NOTE(S):
1. ELASTOMERIC BEARINGS SHALL CONFORM TO AASHTO M251 WITH THE ELASTOMER HAVING A DUROMETER HARDNESS OF 60 ON THE SHORE A SCALE.
 2. THE REQUIRED SHEAR MODULUS @ 73°F IS 140 PSI.



ELEVATION - FIXED BEARING

SCALE: 3" = 1'-0"

- NOTE(S):
1. SOLE PLATE AND SHEAR PLATES SHALL BE AASHTO M270 GRADE 50 STRUCTURAL STEEL PAINTED TO MATCH THE FINISHED BRIDGE COLOR.
 2. THE SOLE PLATE SHALL NOT BE PAINTED ON THE SURFACE IN CONTACT WITH THE ELASTOMERIC PAD. THE SURFACE OF THE SOLE PLATE IN CONTACT WITH THE ELASTOMERIC PAD SHALL RECEIVE AN EPOXY GRIT COATING.
 3. FILL HOLES AROUND ANCHOR BOLTS WITH NONHARDENING CAULKING COMPOUND OR ELASTIC JOINT SEALER.
 4. ANCHOR BOLTS SHALL BE UNPAINTED AASHTO M314 GRADE 36 GALVANIZED STEEL. NUTS SHALL BE UNPAINTED ASTM A563 GRADE DH GALVANIZED STEEL. WASHERS SHALL BE UNPAINTED ASTM F436 GALVANIZED STEEL.
 5. GALVANIZATION OF ANCHOR BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A153.
 6. FOR SOLE PLATE THICKNESS, DIMENSION "A", SEE TABLE THIS SHEET.

BEAM NO.	A
B1	2 1/4"
B2	1 3/4"
B3 THRU B31	1 1/4"
B32	1 3/4"
B33	1 1/2"
B34	1 1/4"

DIMENSION "A" TABLE

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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

FIXED BEARING DETAILS

PROJECT ENG. MC
DESIGNED BY MC
CHECKED BY BP
DRAWN BY MC
PROJECT MGR. BP

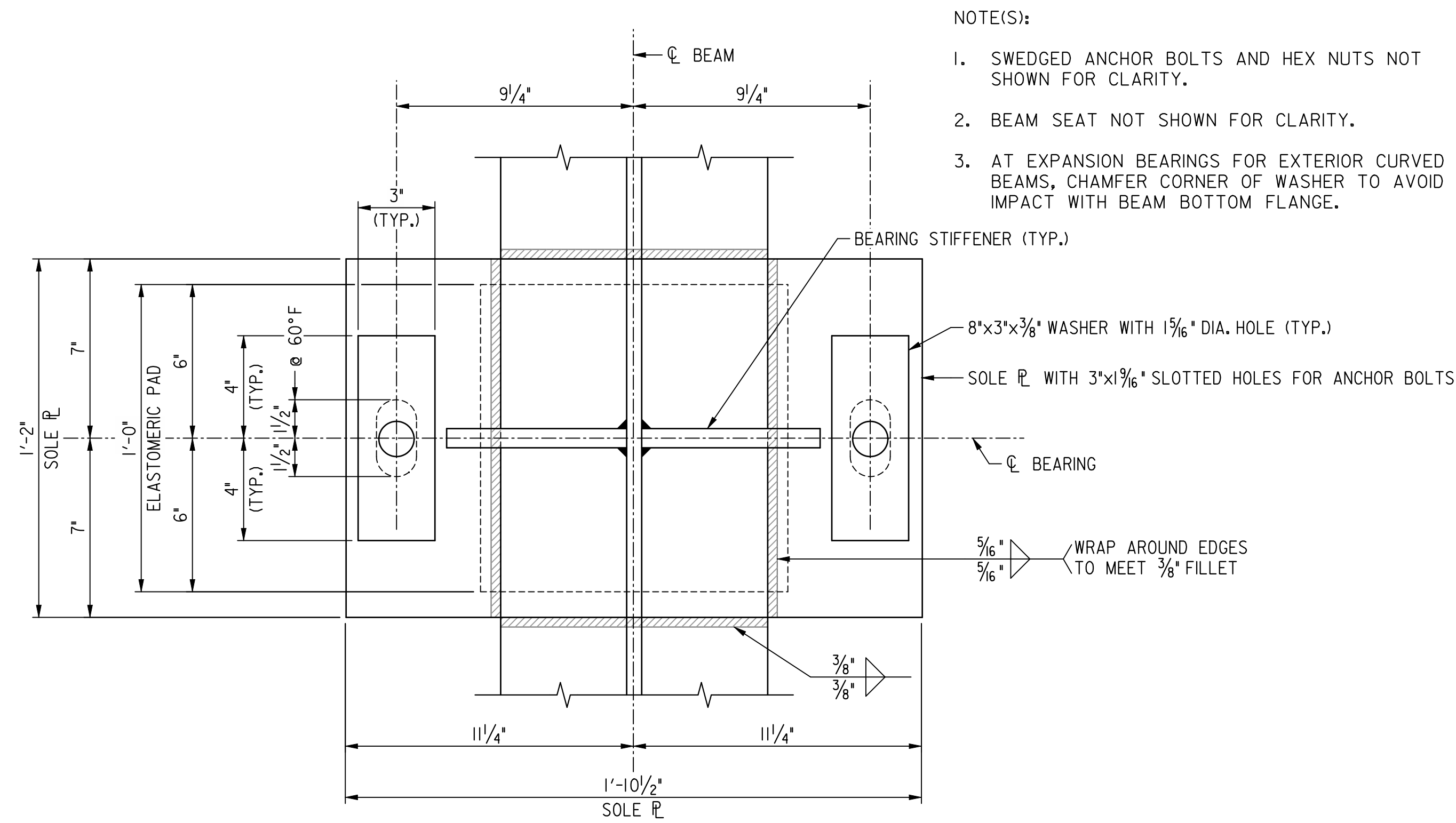
DIVISION CHIEF

DATE 05 / 01 / 2009

FILE

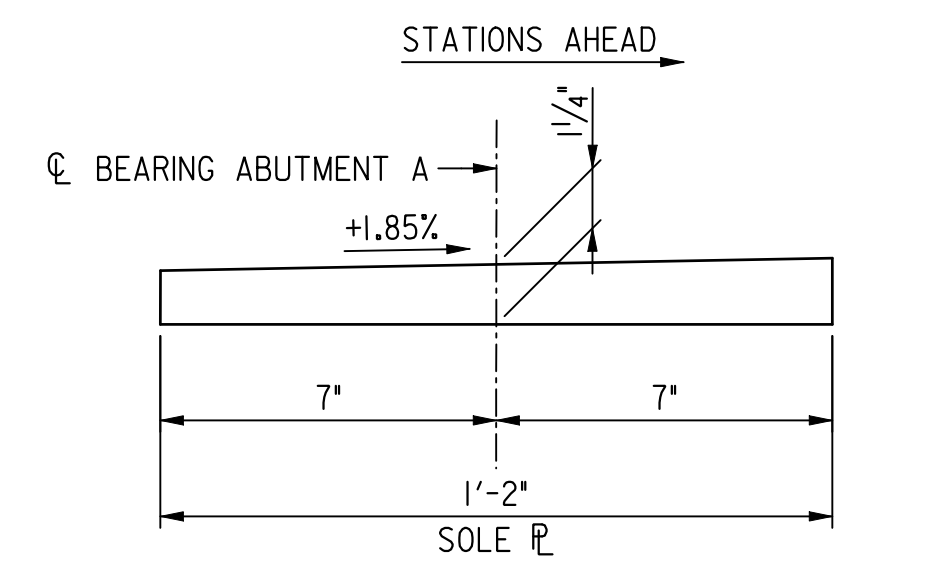
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REVISIONS			

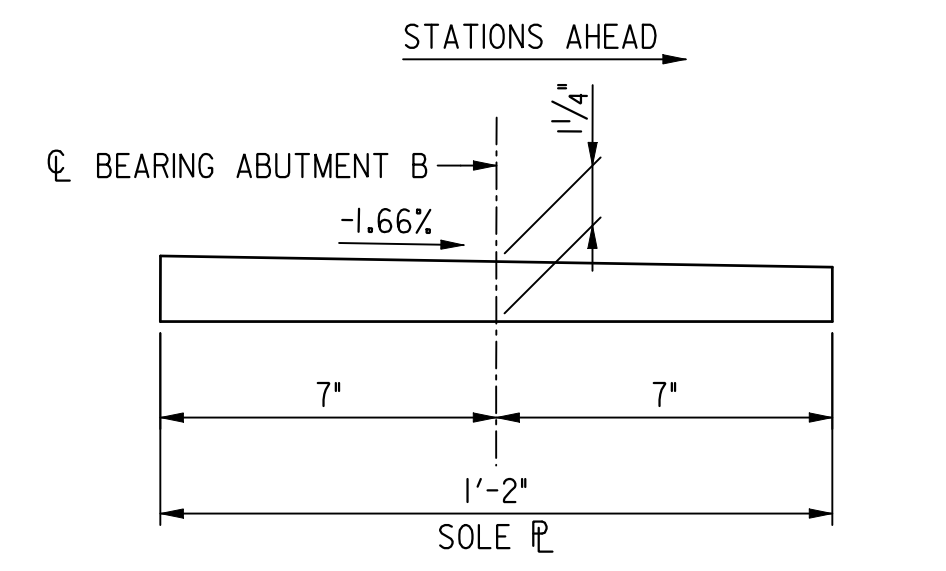


PLAN - EXPANSION BEARING
SCALE: 3" = 1'-0"

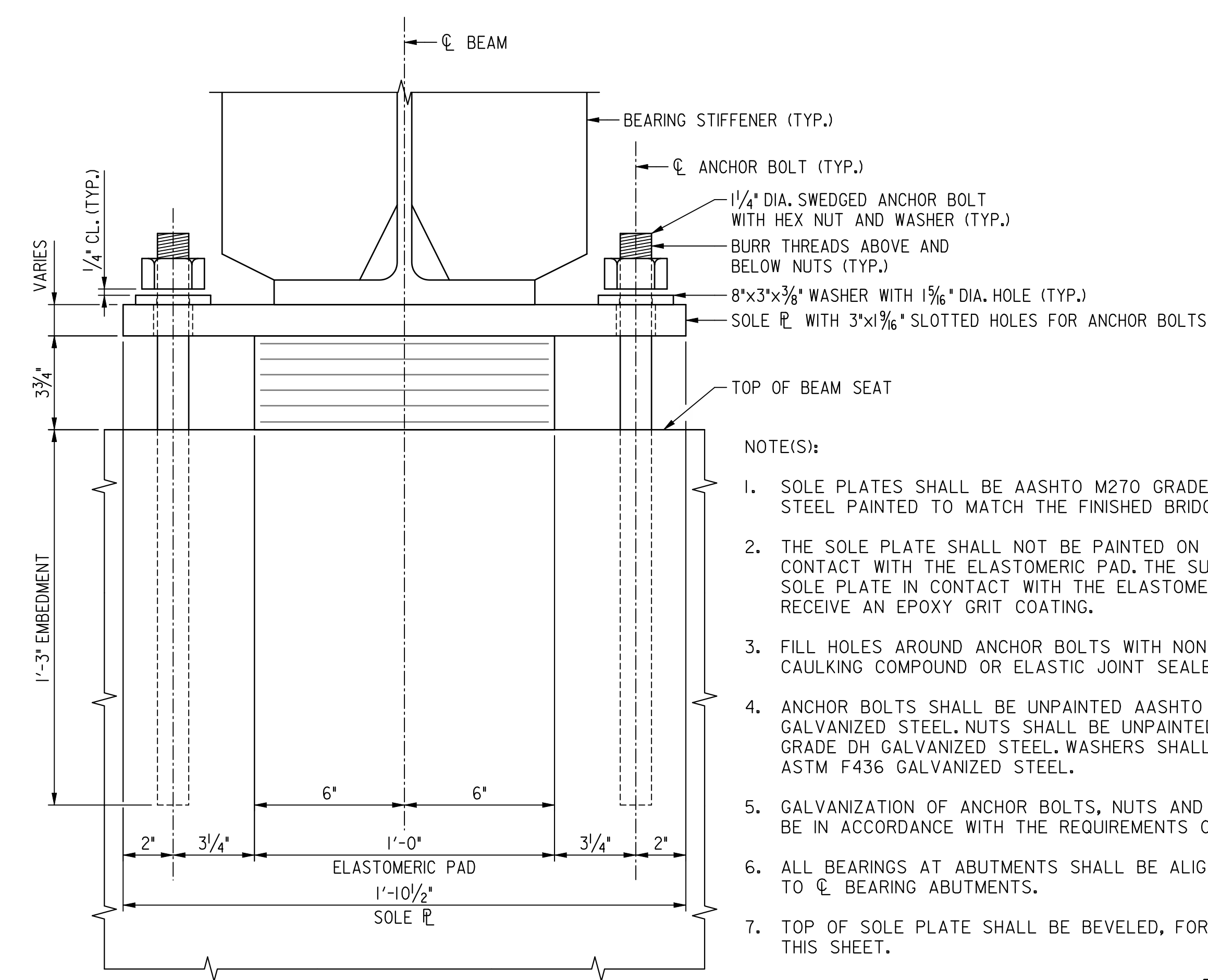
- NOTE(S):
1. SWEDGED ANCHOR BOLTS AND HEX NUTS NOT SHOWN FOR CLARITY.
 2. BEAM SEAT NOT SHOWN FOR CLARITY.
 3. AT EXPANSION BEARINGS FOR EXTERIOR CURVED BEAMS, CHAMFER CORNER OF WASHER TO AVOID IMPACT WITH BEAM BOTTOM FLANGE.



SIDE VIEW - ABUTMENT A SOLE PLATE
SCALE: 3" = 1'-0"

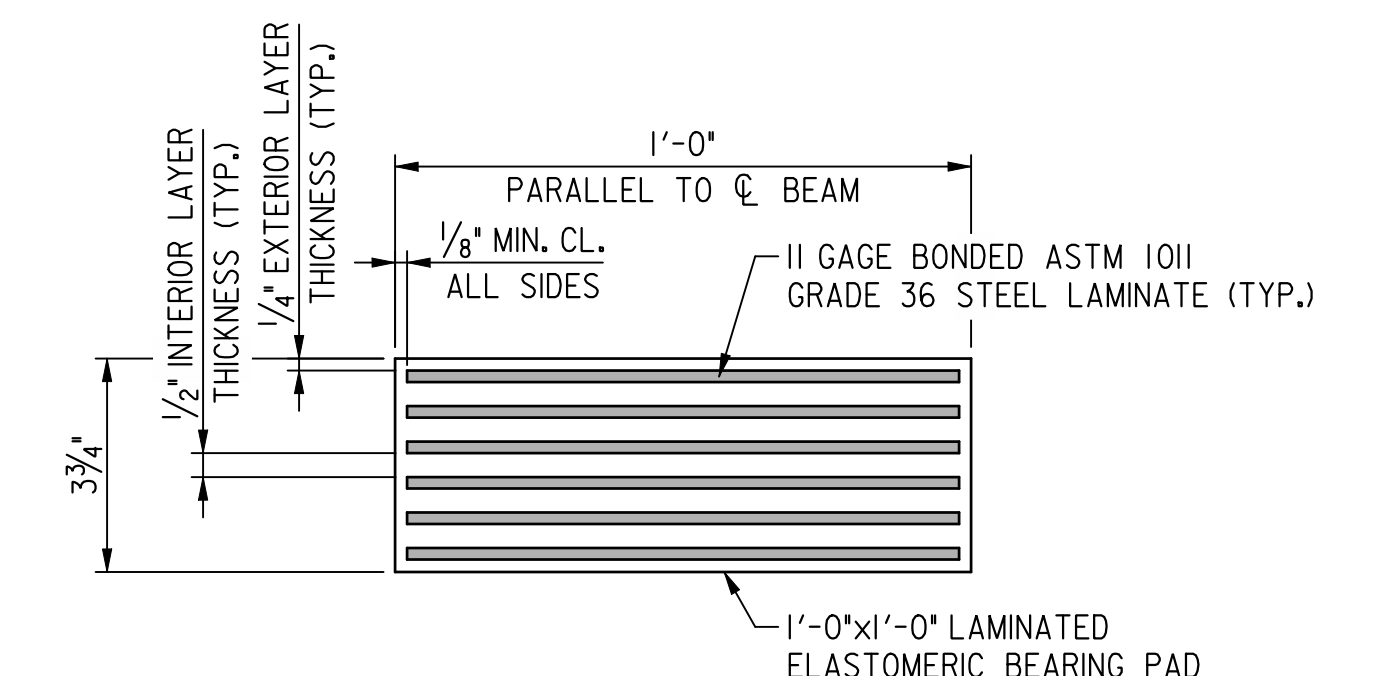


SIDE VIEW - ABUTMENT B SOLE PLATE
SCALE: 3" = 1'-0"



ELEVATION - EXPANSION BEARING
SCALE: 3" = 1'-0"

- NOTE(S):
1. SOLE PLATES SHALL BE AASHTO M270 GRADE 50 STRUCTURAL STEEL PAINTED TO MATCH THE FINISHED BRIDGE COLOR.
 2. THE SOLE PLATE SHALL NOT BE PAINTED ON THE SURFACE IN CONTACT WITH THE ELASTOMERIC PAD. THE SURFACE OF THE SOLE PLATE IN CONTACT WITH THE ELASTOMERIC PAD SHALL RECEIVE AN EPOXY GRIT COATING.
 3. FILL HOLES AROUND ANCHOR BOLTS WITH NONHARDENING CAULKING COMPOUND OR ELASTIC JOINT SEALER.
 4. ANCHOR BOLTS SHALL BE UNPAINTED AASHTO M314 GRADE 36 GALVANIZED STEEL. NUTS SHALL BE UNPAINTED ASTM A563 GRADE DH GALVANIZED STEEL. WASHERS SHALL BE UNPAINTED ASTM F436 GALVANIZED STEEL.
 5. GALVANIZATION OF ANCHOR BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A153.
 6. ALL BEARINGS AT ABUTMENTS SHALL BE ALIGNED PARALLEL TO ϕ BEARING ABUTMENTS.
 7. TOP OF SOLE PLATE SHALL BE BEVELED, FOR DETAILS SEE THIS SHEET.



STEEL REINFORCED ELASTOMERIC EXPANSION BEARING DETAIL
SCALE: NOT TO SCALE

- NOTE(S):
1. ELASTOMERIC BEARINGS SHALL CONFORM TO AASHTO M251 WITH THE ELASTOMER HAVING A DUROMETER HARDNESS OF 60 ON THE SHORE A SCALE.
 2. THE REQUIRED SHEAR MODULUS @ 73°F IS 140 PSI.

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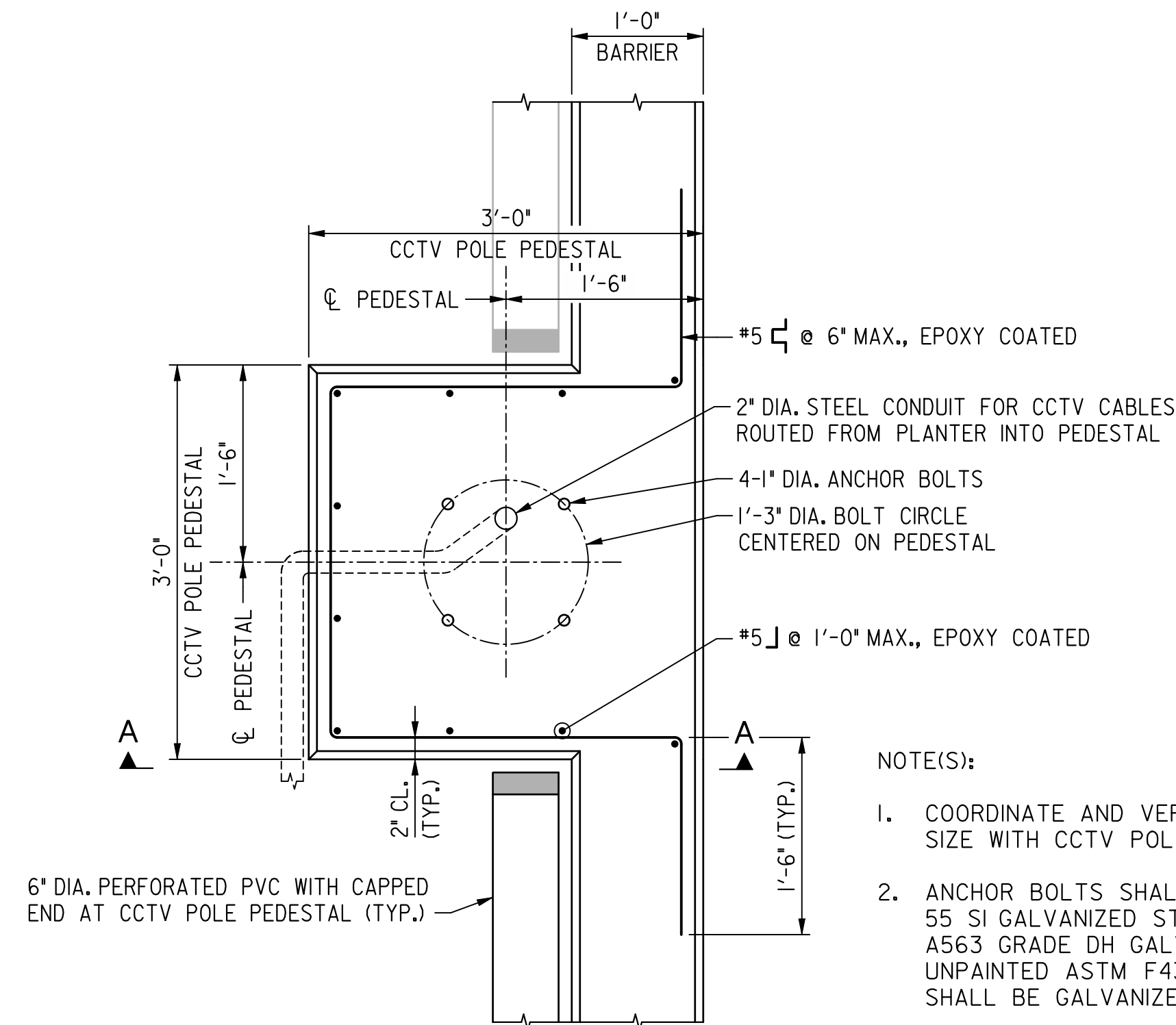
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

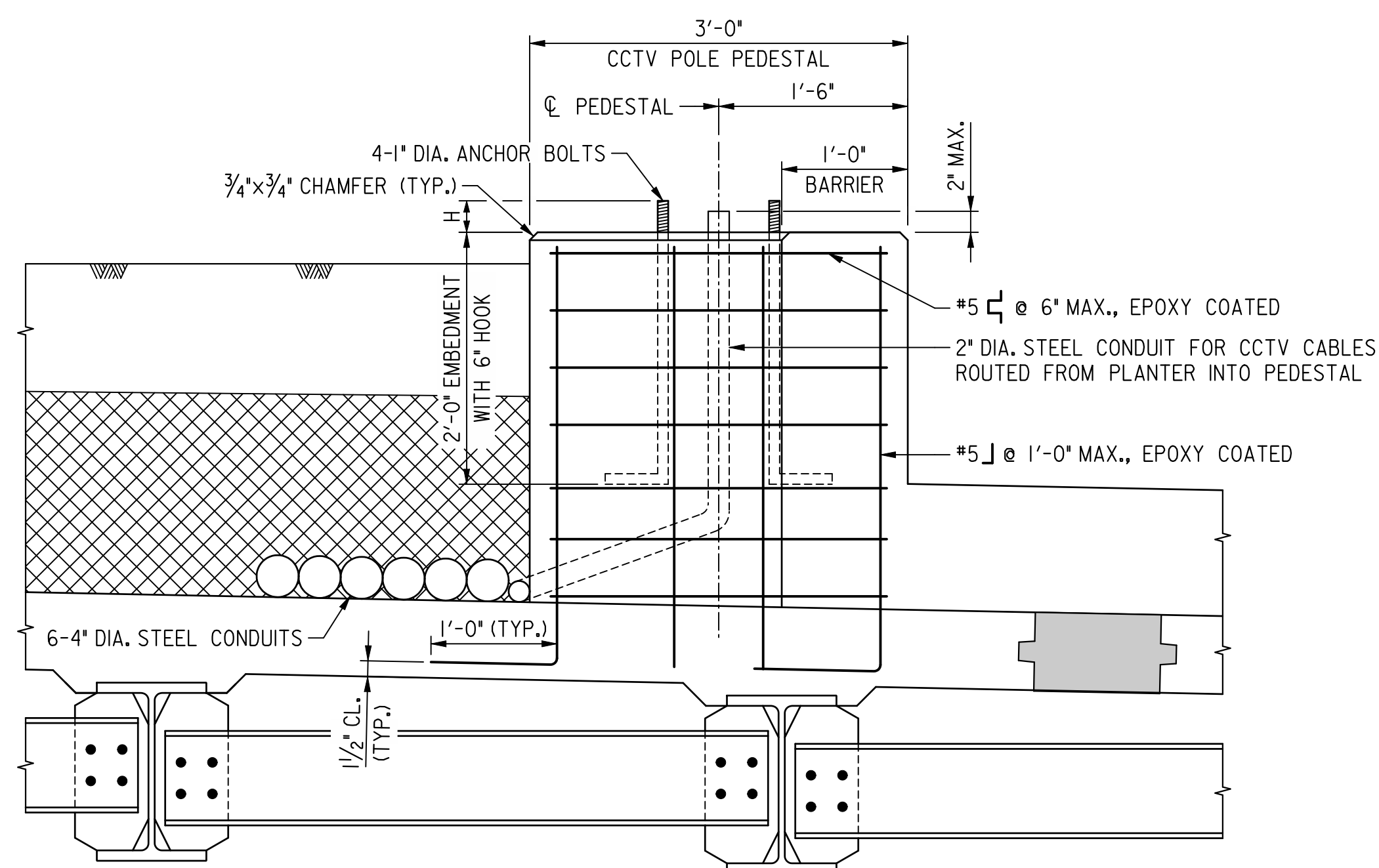
EXPANSION BEARING DETAILS

PROJECT ENG. _____ MC	DESIGNED BY _____ MC
CHECKED BY _____ BP	DRAWN BY _____ MC
PROJECT MGR. _____ BP	DIVISION CHIEF _____
DATE _____ 05 / 01 / 2009	FILE _____



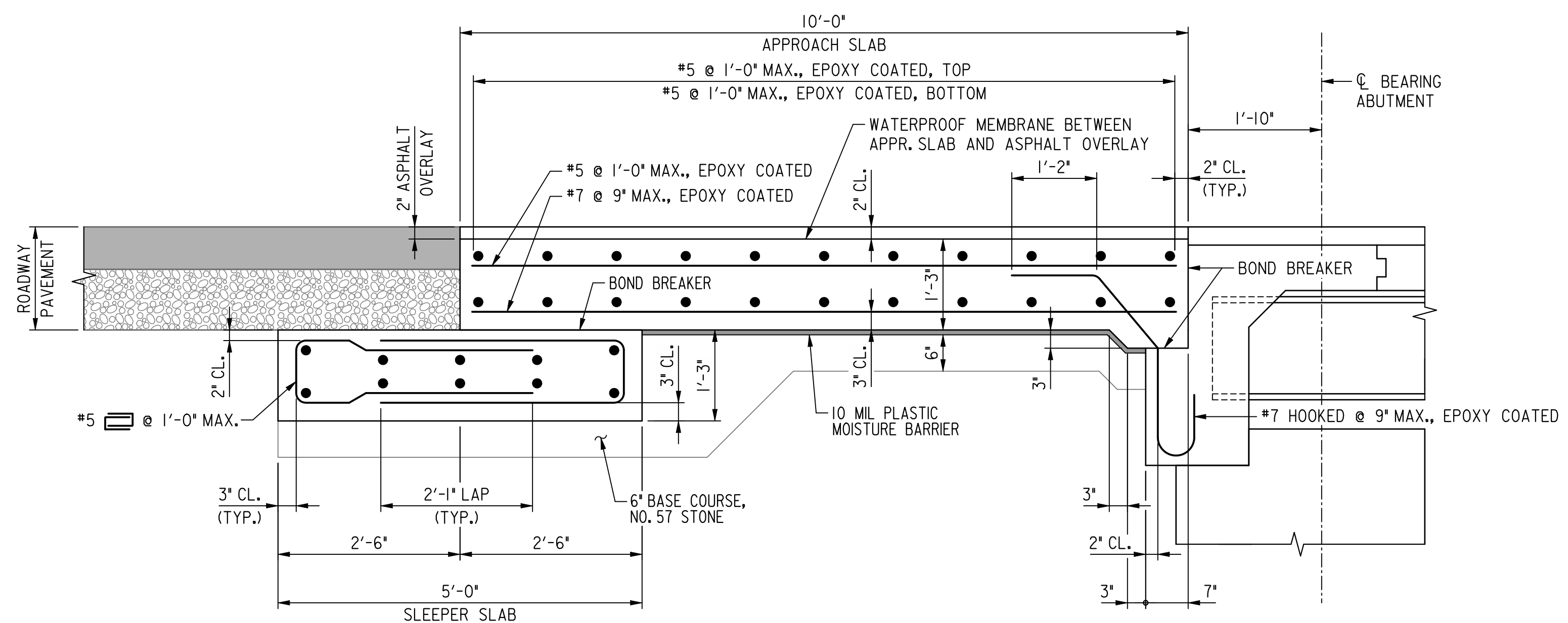
PLAN - CCTV POLE PEDESTAL
SCALE: 1" = 1'-0"

- NOTE(S):
- COORDINATE AND VERIFY ANCHOR BOLT LOCATIONS AND SIZE WITH CCTV POLE DETAILS SHOWN IN "LT" DRAWINGS.
 - ANCHOR BOLTS SHALL BE UNPAINTED AASHTO M314 GRADE 55 SI GALVANIZED STEEL. NUTS SHALL BE UNPAINTED ASTM A563 GRADE DH GALVANIZED STEEL. WASHERS SHALL BE UNPAINTED ASTM F436 GALVANIZED STEEL. ALL HARDWARE SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A153.
 - NORMAL BARRIER REINFORCING STEEL NOT SHOWN FOR CLARITY.
 - FOR SECTION A-A, SEE THIS SHEET.



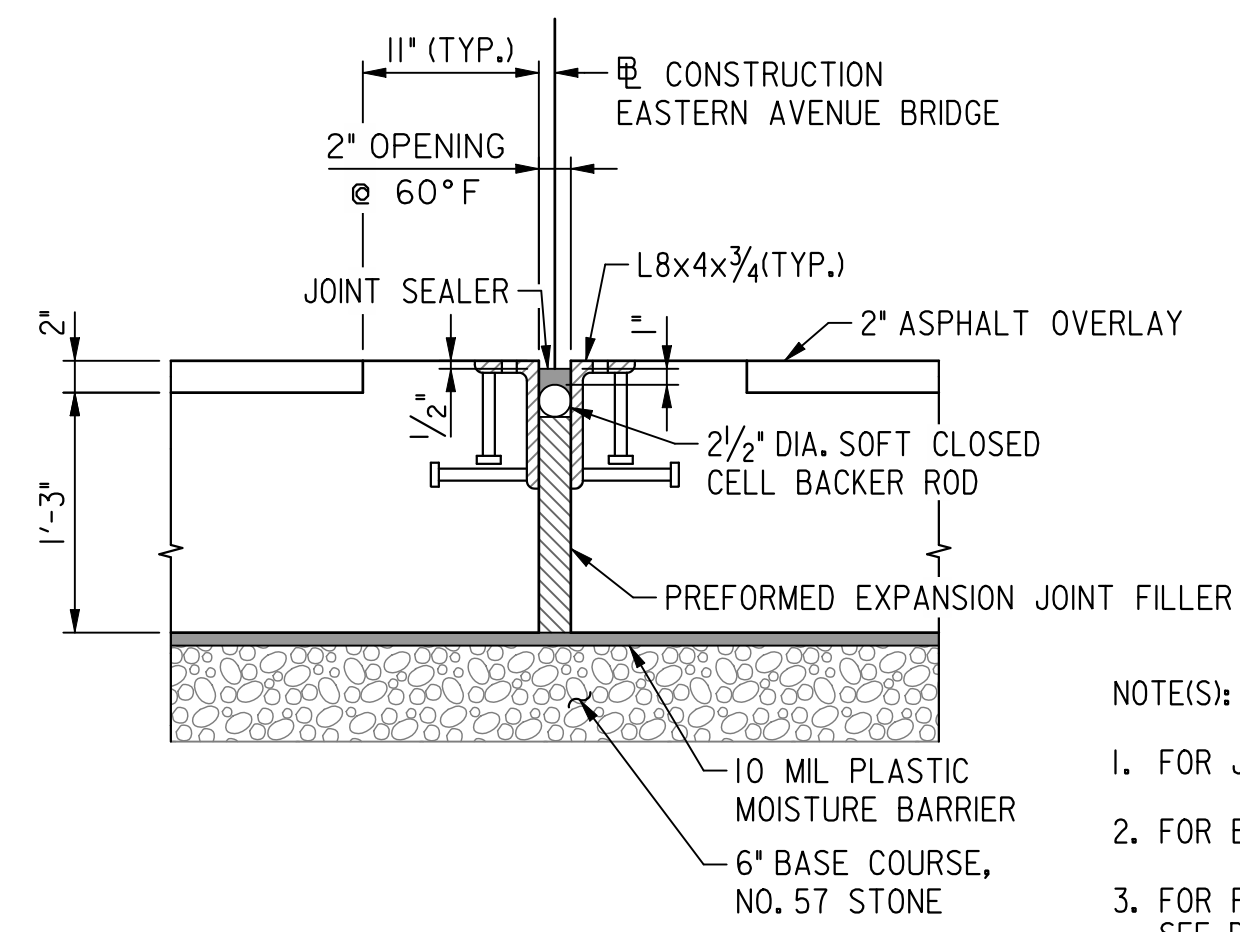
SECTION A-A - CCTV POLE PEDESTAL
SCALE: 1" = 1'-0"

- NOTE(S):
- ANCHOR BOLT EXPOSED HEIGHT, DIMENSION "H", SHALL BE DETERMINED BASED ON CCTV POLE DETAILS SHOWN IN "LT" DRAWINGS.
 - NORMAL BARRIER REINFORCING STEEL NOT SHOWN FOR CLARITY.



LONGITUDINAL SECTION - APPROACH SLAB
SCALE: 3/4" = 1'-0"

- NOTE(S):
- APPROACH SLAB TOP REINFORCING MIN. LAP SHALL BE 3'-7". APPROACH SLAB BOTTOM REINFORCING MIN. LAP SHALL BE 2'-1".
 - LONGITUDINAL REINFORCING IN SLEEPER SLAB SHALL BE #5 BAR, EPOXY COATED, SPACED AS SHOWN. TOP REINFORCING MIN. LAP SHALL BE 3'-7". BOTTOM REINFORCING MIN. LAP SHALL BE 2'-1".
 - BOND BREAKER SHALL BE 2 LAYERS OF 0.1mm (4MIL.) POLYETHYLENE SHEETING.



SECTION - APPROACH SLAB LONGITUDINAL JOINT
SCALE: 1" = 1'-0"

- NOTE(S):
- FOR JOINT SEALER REQUIREMENTS, DDOT SPEC. SEC. 807.02(B).
 - FOR BACKER ROD REQUIREMENTS, SEE ASTM D 5249.
 - FOR PREFORMED EXPANSION JOINT FILLER REQUIREMENTS, SEE DDOT SPEC. SEC. 807.01(B).

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

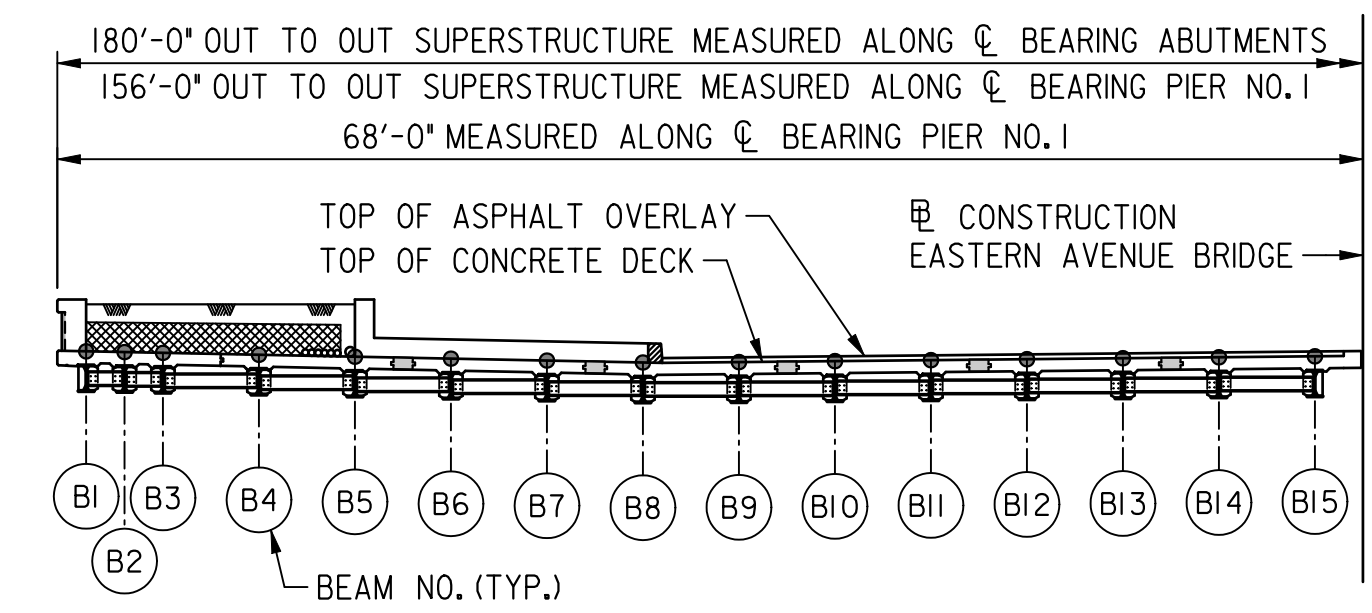
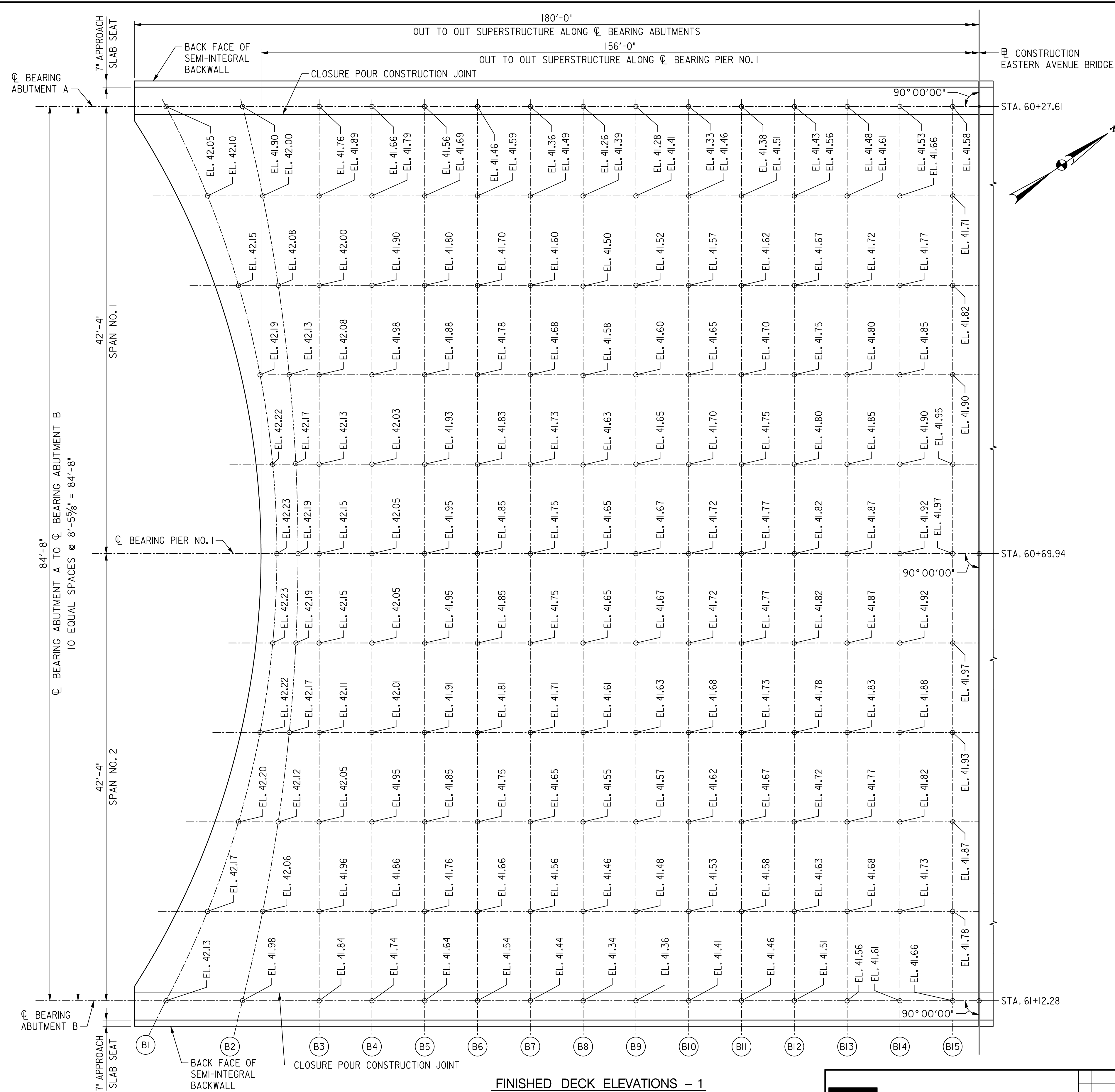
**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

**APPROACH SLAB AND
CCTV POLE PEDESTAL DETAILS**

PROJECT ENG. _____ MC	DESIGNED BY _____ MC	CHECKED BY _____ BP	DRAWN BY _____ MC	PROJECT MGR. _____ BP
DIVISION CHIEF				
DATE: 05 / 01 / 2009				FILE: _____

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NOTE(S):
 I. FINISHED DECK ELEVATIONS ARE PROVIDED AT THE TOP OF THE CONCRETE DECK.

FINISHED DECK ELEVATIONS - 1
 SCALE: 3/16" = 1'-0"

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION**

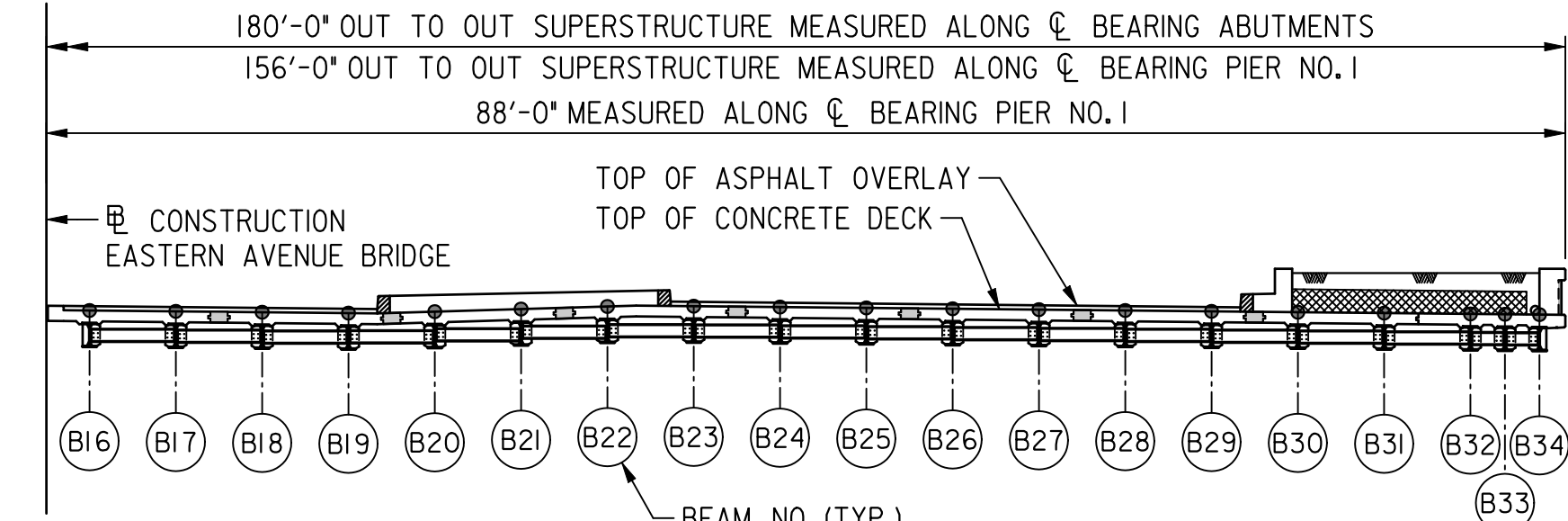
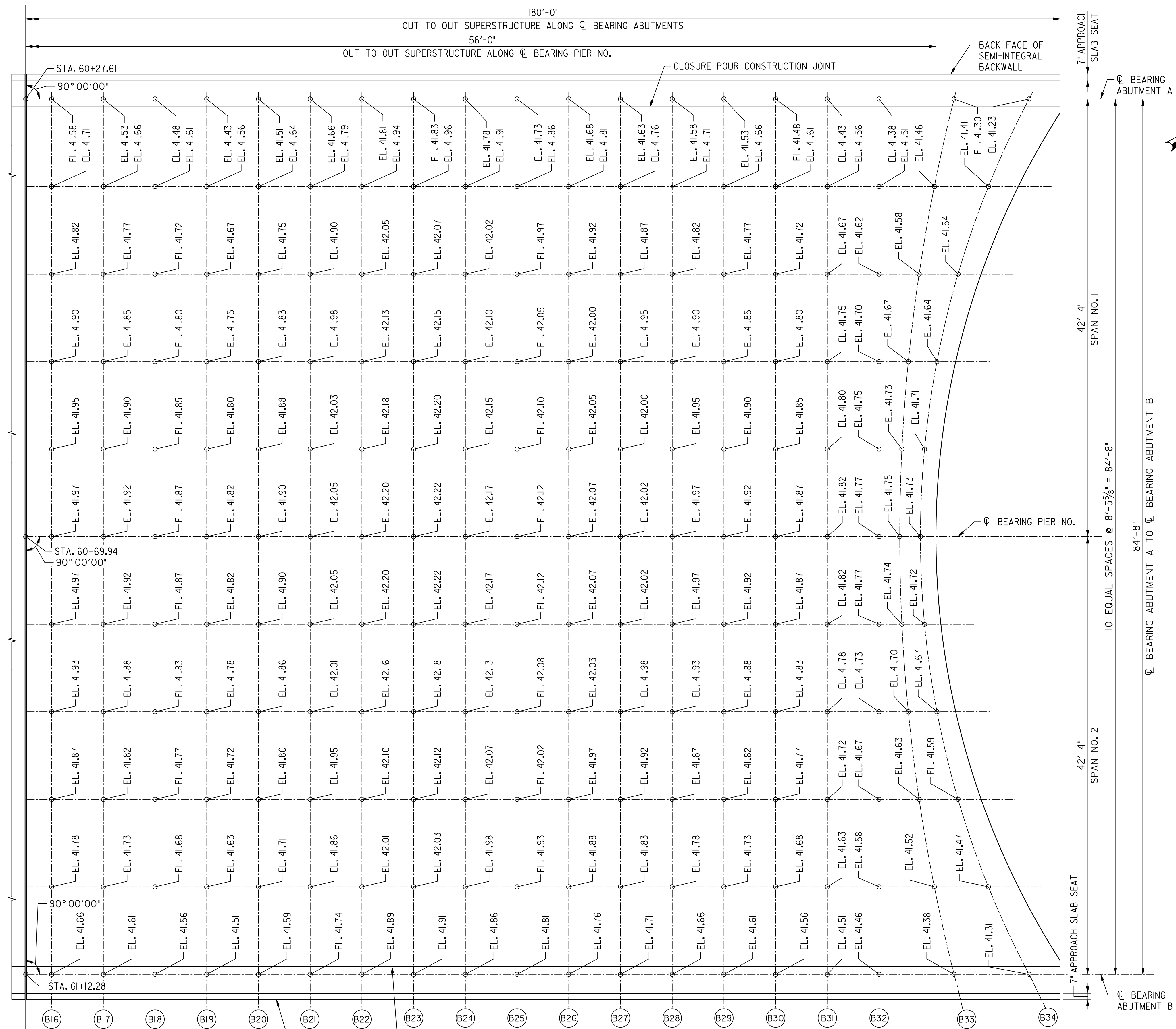
**RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.**

FINISHED DECK ELEVATIONS - 1

PROJECT ENG. _____ MC	DIVISION CHIEF
DESIGNED BY _____ MC	DATE: 03/31/2009
CHECKED BY _____ BP	FILE _____
DRAWN BY _____ MC	
PROJECT MGR. _____ BP	

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	140	242



PARTIAL TYPICAL SECTION
SCALE: 1" = 10'-0"

NOTE(S):
1. FINISHED DECK ELEVATIONS ARE PROVIDED AT THE TOP OF THE CONCRETE DECK.

FINISHED DECK ELEVATIONS - 2
SCALE: 3/16" = 1'-0"

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

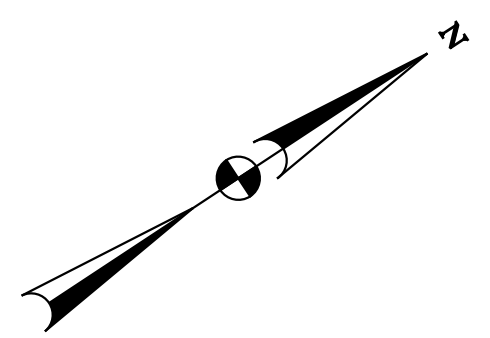
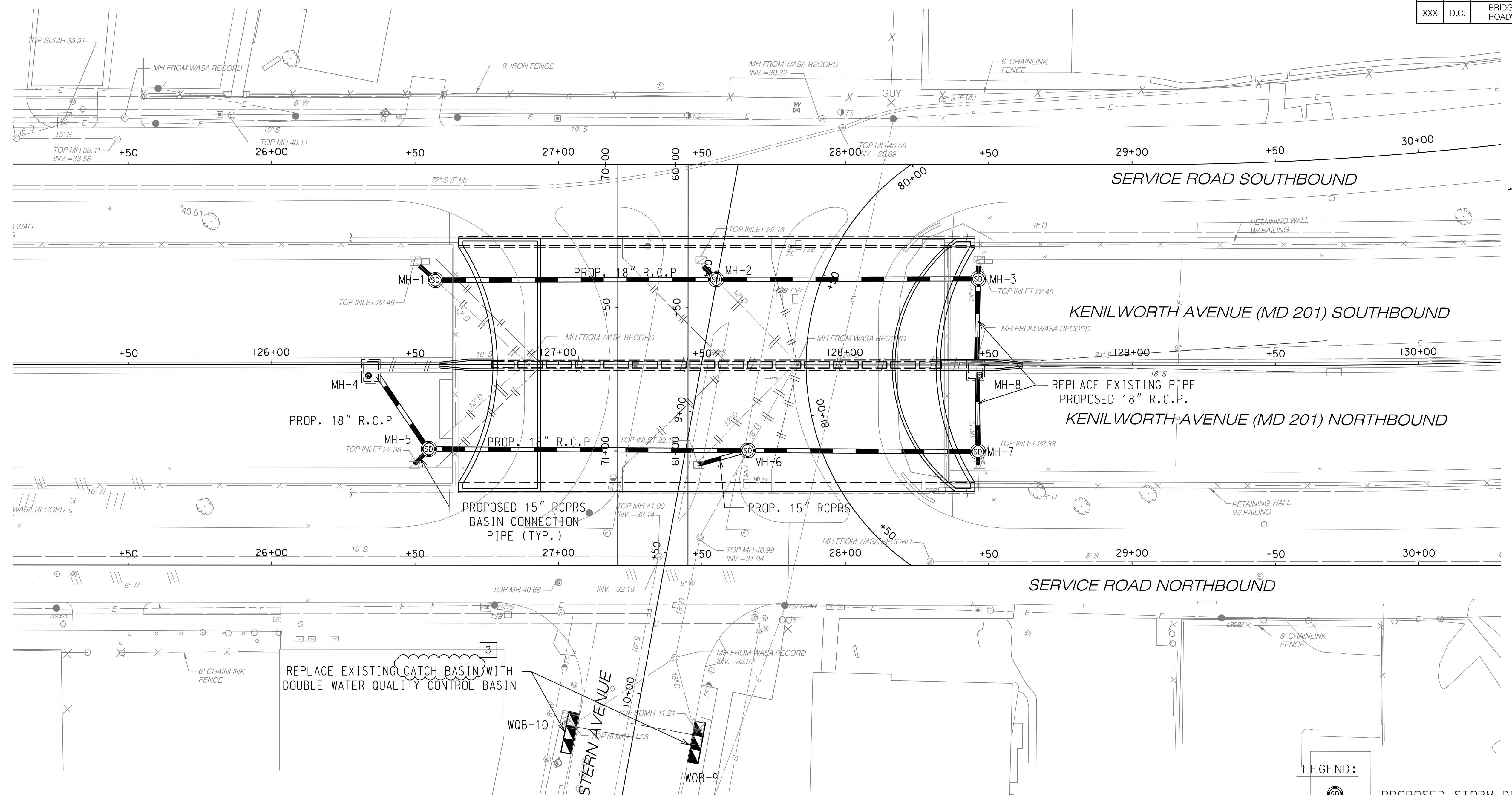
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

FINISHED DECK ELEVATIONS - 2

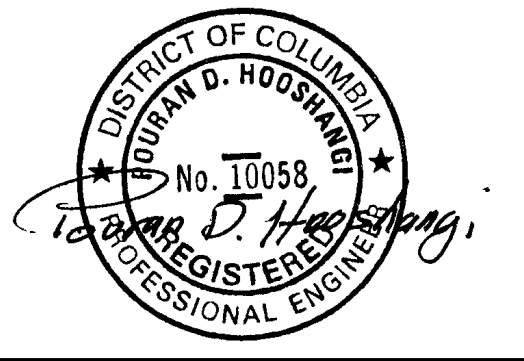
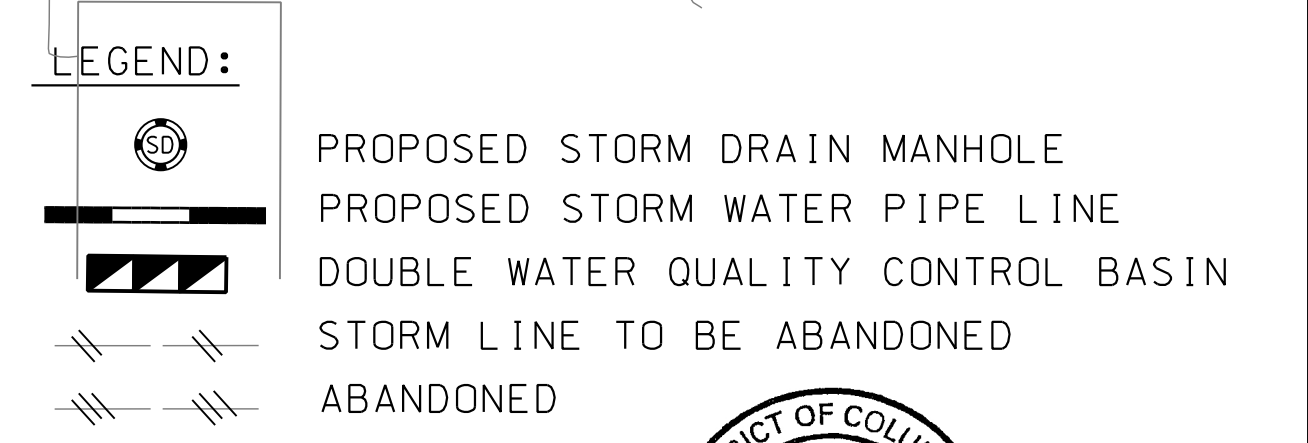
PROJECT ENG. _____ MC	DIVISION CHIEF
DESIGNED BY _____ MC	DATE 03/31/2009
CHECKED BY _____ BP	FILE _____
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PROJECT MGR. _____ BP	

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- NOTES:
- THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA OR RECORD DRAWINGS ON THE ORIGINAL LOCATIONS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND LOCATIONS OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREA WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE UTILITY OWNER AT CONTRACTOR EXPENSE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
 - THE CONTRACTOR SHALL CONNECT EXISTING 8 INCH V.C.P TO THE PROPOSED 18 INCH RCP STORM DRAIN.
 - FOR MANHOLE DETAILS (4 & 8) SEE SHEET DD 04 & DD 05
 - REPLACE EXISTING BASIN WITH A DOUBLE WATER QUALITY CONTROL BASIN. THE CONTRACTOR SHALL DETERMINE THE INVERT OF EXISTING 15" CONNECTING PIPE AND ADJUST BASIN INVERT ACCORDINGLY.

STRUCTURE NUMBER	DESCRIPTION	BASE LINE	STATION	OFFSET	INVERT ELEVATION	TOP ELEVATION
1	STANDARD MANHOLE	MD 201	126+57.00	29.50' LT.	18.30	22.60
2	STANDARD MANHOLE	MD 201	127+55.00	29.78' LT.	17.37	21.66
3	STANDARD MANHOLE	MD 201	128+46.00	30.00' LT.	16.51	22.48
4	SPECIAL MANHOLE	MD 201	126+32.00	0.00	18.29	23.65
5	STANDARD MANHOLE	MD 201	126+54.84	29.40' RT.	18.06	22.56
6	STANDARD MANHOLE	MD 201	127+66.00	29.90' RT.	17.13	21.77
7	STANDARD MANHOLE	MD 201	128+46.26	30.24' RT.	16.47	22.81
8	SPECIAL MANHOLE	MD 201	128+47.00	0.00	16.05	23.25
9	WATER QUALITY BASIN	EASTERN	10+10.70	22.20' LT.	SEE NOTE 4	Ex. 41.21
10	WATER QUALITY BASIN	EASTERN	10+15.63	21.80' RT.	SEE NOTE 4	Ex. 41.08



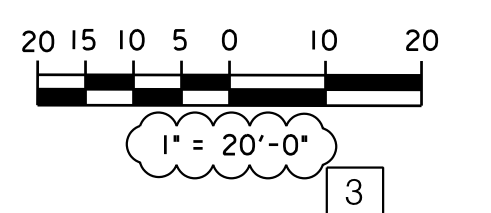
DD 01

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

STORM DRAIN PLAN

PROJECT ENG. _____ MR.	DESIGNED BY _____ MR.
CHECKED BY _____ PH.	DRAWN BY _____ MM.
PROJECT MGR. _____ PH.	DIVISION CHIEF _____
DATE _____	
FILE _____	
DWG NO. _____ OF _____	

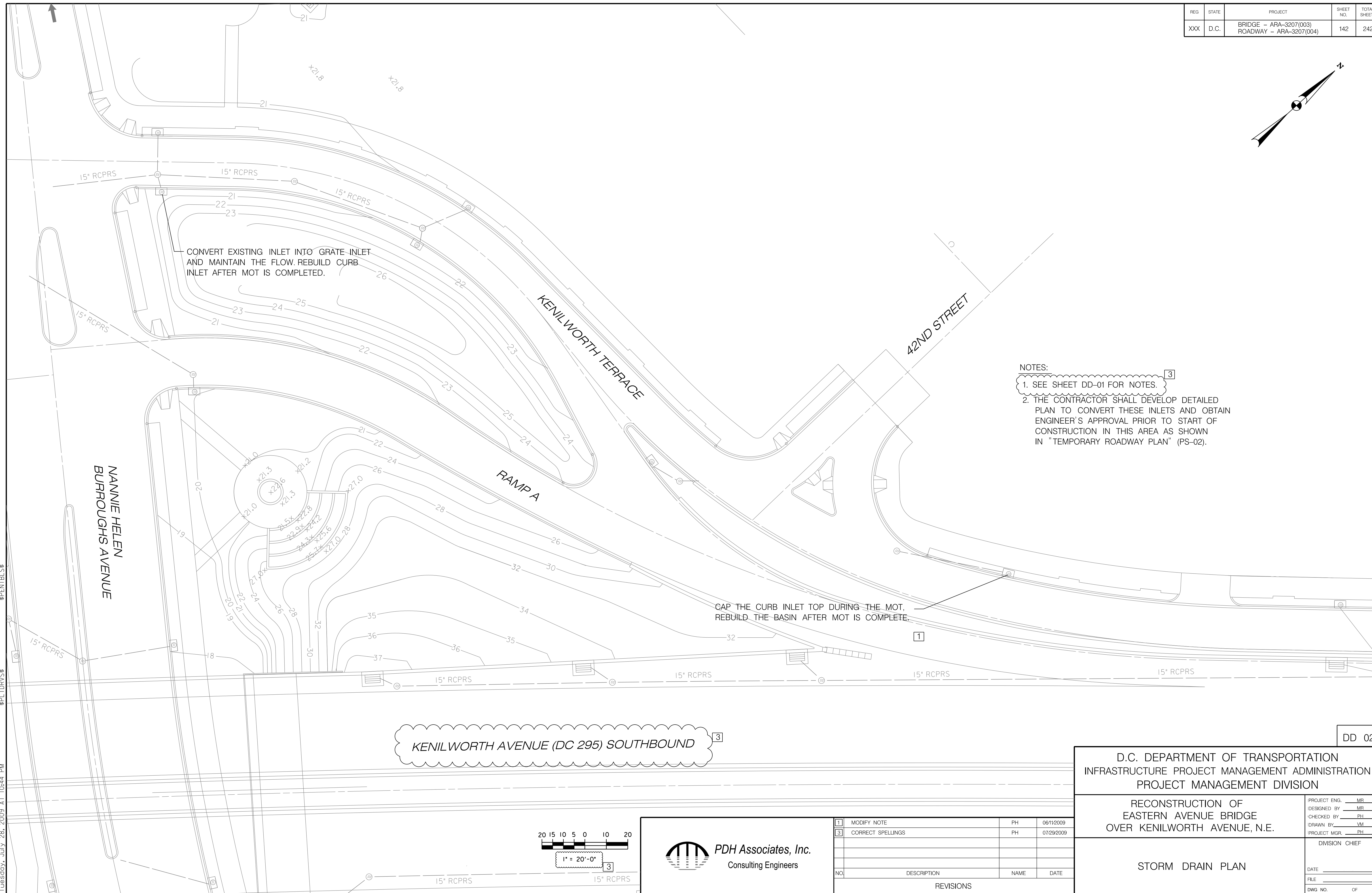
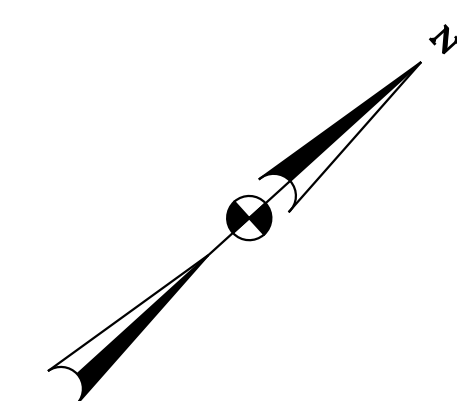


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3	CORRECT SPELLINGS	PH	07/29/2009
REVISIONS			



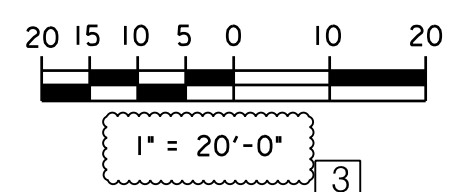
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	142	242



- NOTES:
1. SEE SHEET DD-01 FOR NOTES.
 2. THE CONTRACTOR SHALL DEVELOP DETAILED PLAN TO CONVERT THESE INLETS AND OBTAIN ENGINEER'S APPROVAL PRIOR TO START OF CONSTRUCTION IN THIS AREA AS SHOWN IN "TEMPORARY ROADWAY PLAN" (PS-02).

KENILWORTH AVENUE (DC 295) SOUTHBOUND



NO.	DESCRIPTION	NAME	DATE
1	MODIFY NOTE	PH	06/12/09
3	CORRECT SPELLINGS	PH	07/29/2009
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

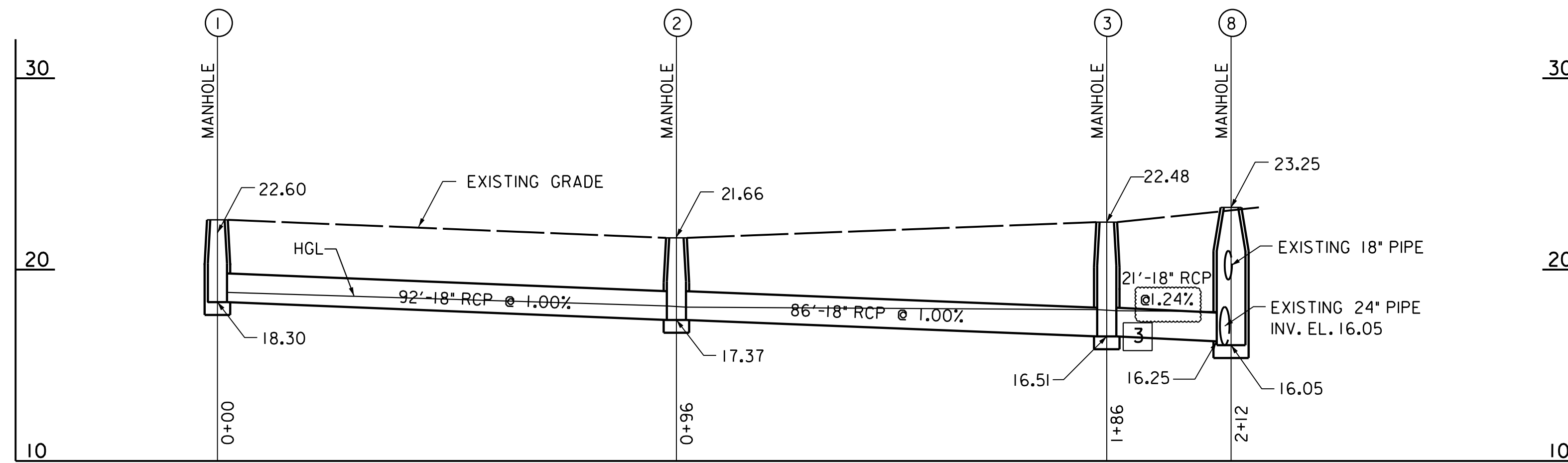
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

STORM DRAIN PLAN

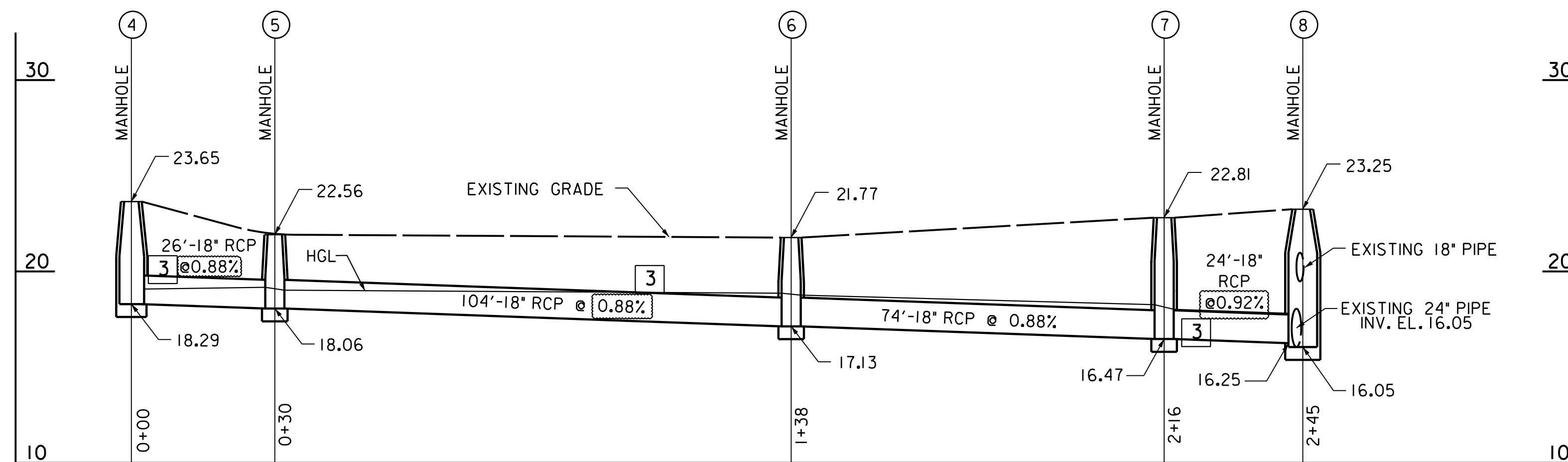
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DESIGNED BY _____ MR
CHECKED BY _____ PH
DRAWN BY _____ JM
PROJECT MGR. _____ PH
DIVISION CHIEF
DATE _____
FILE _____
DWG NO. _____ OF _____

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DD 02



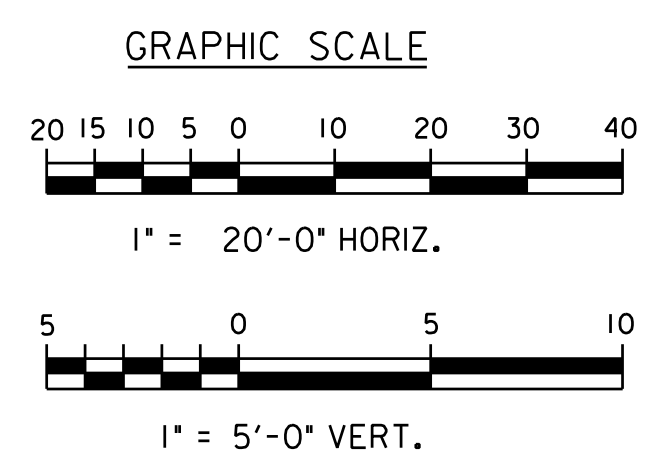
PROFILE FROM MH#1 TO MH#8 (SOUTH BOUND) 1



PROFILE FROM MH#4 TO MH#8 (NORTH BOUND) 1

3 NOTES:
 1. REFER TO DRAWING DD 01 FOR STORM DRAIN PLAN.
 2. FOR MANHOLES 4 AND 8, SEE DRAWING DD 04 AND DD 05.
 3. FOR MANHOLES 1 TO 3 AND 5 TO 7, SEE WASA STD. FOR MANHOLES.

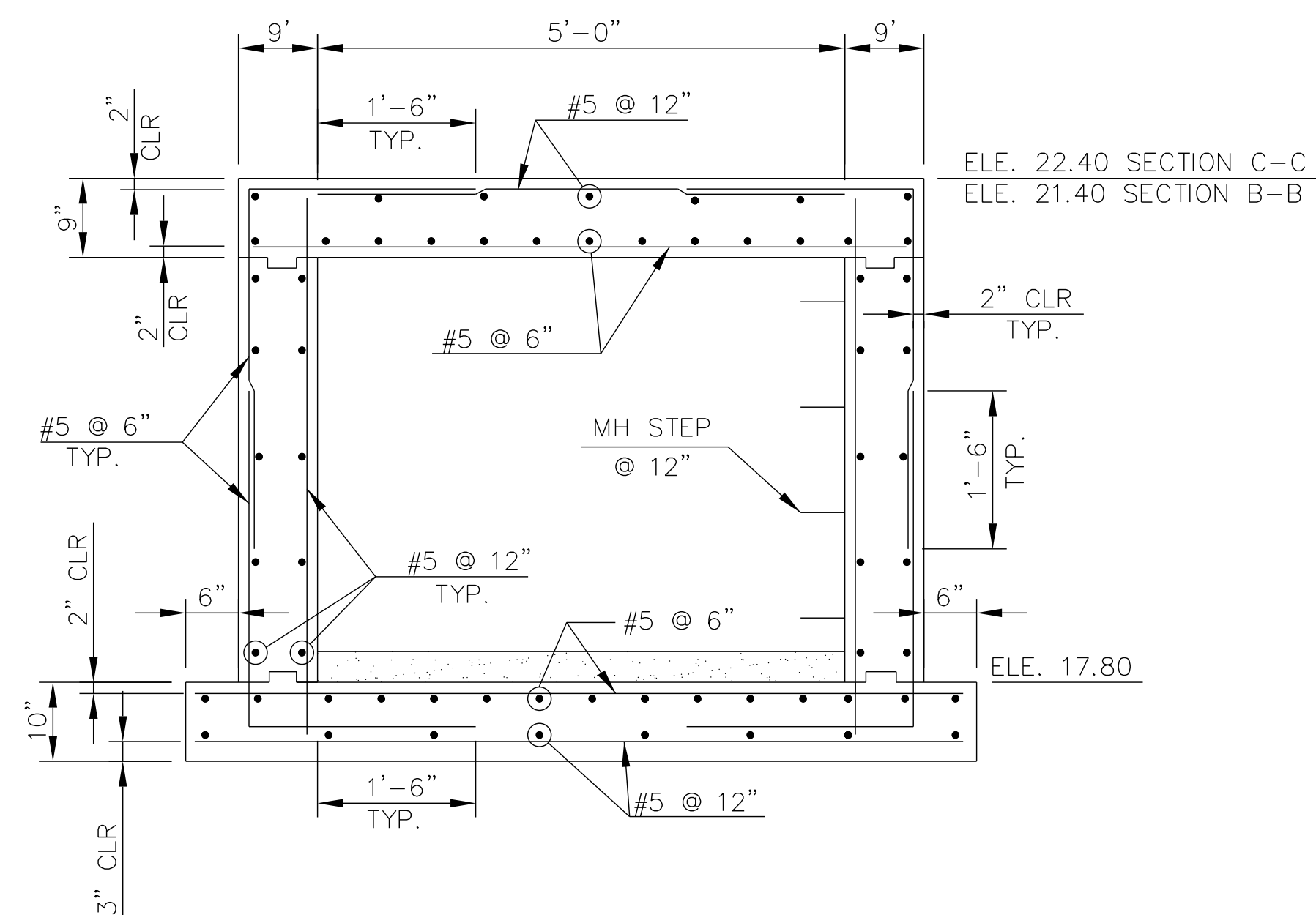
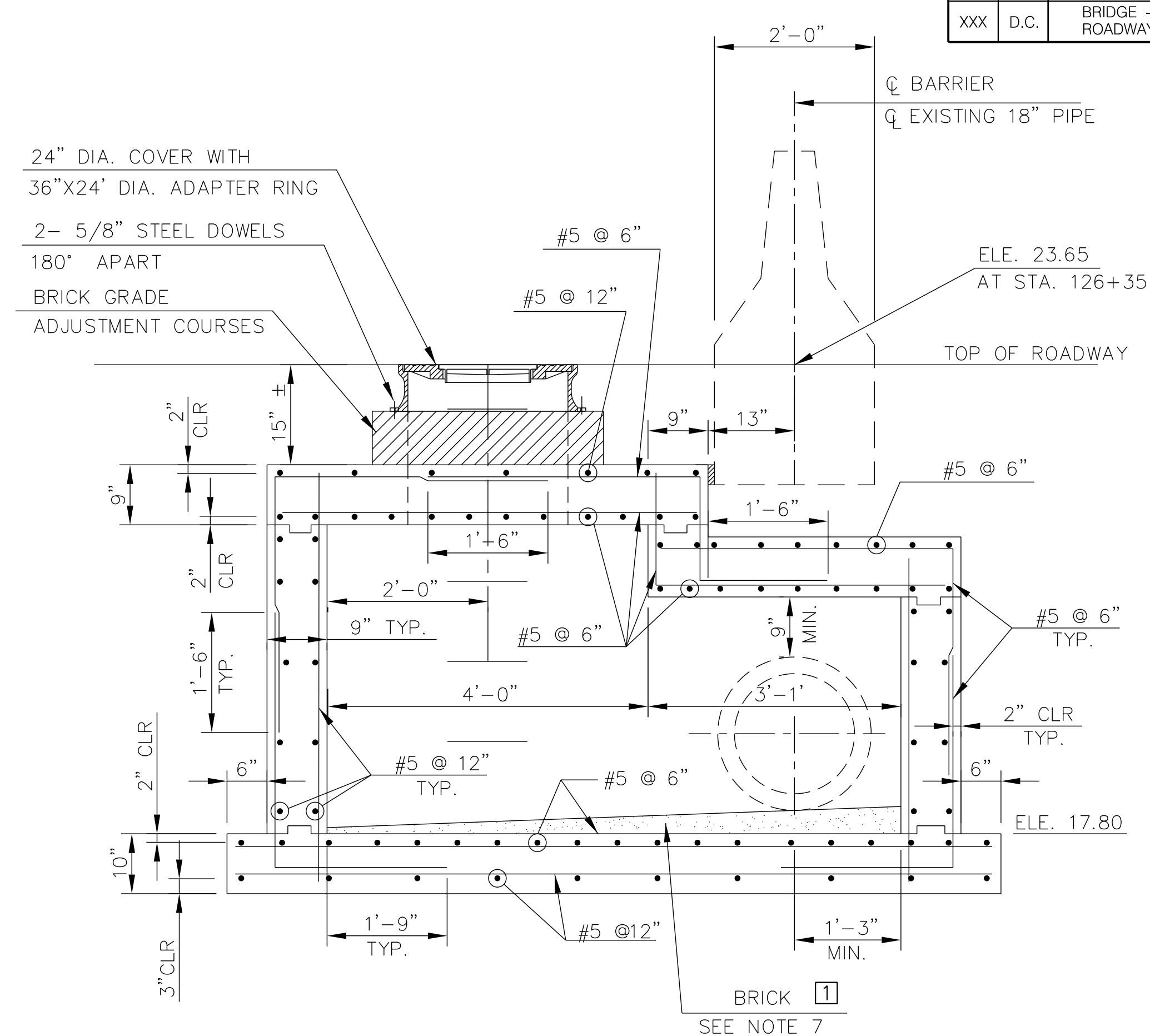
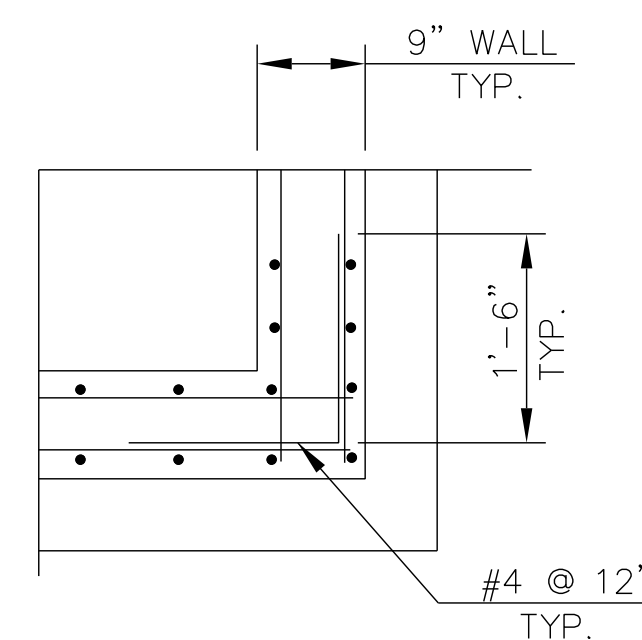
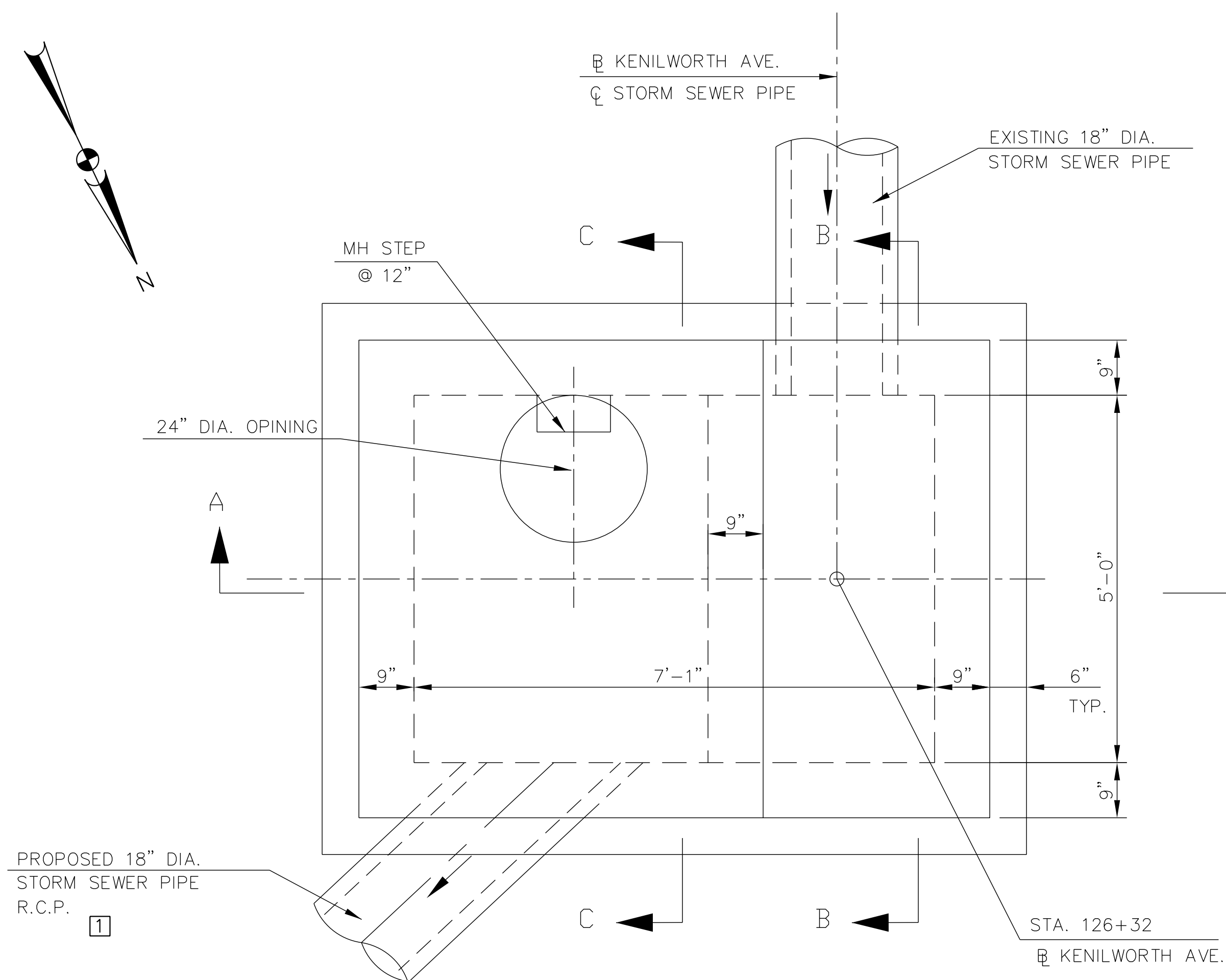
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NO.	DESCRIPTION	NAME	DATE
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3	ADDED NOTES	PH	07/29/2009
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
STORM DRAIN PROFILES	
PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u>	DIVISION CHIEF DATE _____ FILE _____ DWG NO. _____ OF _____

DD 03



GENERAL NOTES:

- PRIOR TO CONSTRUCTION AND PREPARATION OF SHOP DRAWINGS, THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS. IF THESE DIMENSIONS DO NOT AGREE WITH THOSE SHOWN ON THE CONTRACT PLANS OR OTHER EXISTING DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO DIMENSIONS SHOWN ON THE CONTRACT PLANS AND AS APPROVED BY THE ENGINEER.
- FOR LOCATION OF MH-4 AND MH-8 SEE DRAWINGS DD 01
- FOR MH COVER AND ADAPTER RING REFER TO WASA STANDARD AND SPECIFICATION
- ALL CAST-IN-PLACE CONCRETE TO BE CLASS 4000, AIR ENTRAINED, TYPE II CEMENT.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- COMPACT EXISTING GRAVEL BEDDING BEFORE CONCRETE IS PLACED.
- SHAPE THE MANHOLE BOTTOM WITH BRICK INVERT CHANNEL TO DIRECT WATER TO OUTLET PIPE. MODIFY BOTTOM SLAB ELEVATION IF NEEDED TO ACCOMODATE BRICK INVERT.
- FOR PIPE INVERT ELEVATIONS SEE DRAWINGS DD 01 AND DD 03
- FOR SPECIFICATION REFER TO WASA SPECIFICATION, WASA SPEC. 02705, SEWER MANHOLES.
- MH STEPS SHALL BE MODEL PSI-PF BY M.A. INDUSTRY, INC. PEACHTREE CITY, GEORGIA OR EQUIVALENT.
- 24" MH COVER SHALL BE WASA STANDARD S-90.21, S-90.23, AND S-90.24.
- MH BOTTOM SLAB SHALL BE ON 6" MIN. OF UNIFORM GRADED SCREENED GRAVEL OR CRUSHED STONE, ASTM C-33, # 67.

NOTE:
1. FOR DETAIL OF ADDITIONAL REINFORCING AT OPENING SEE DD 05.

DD 04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

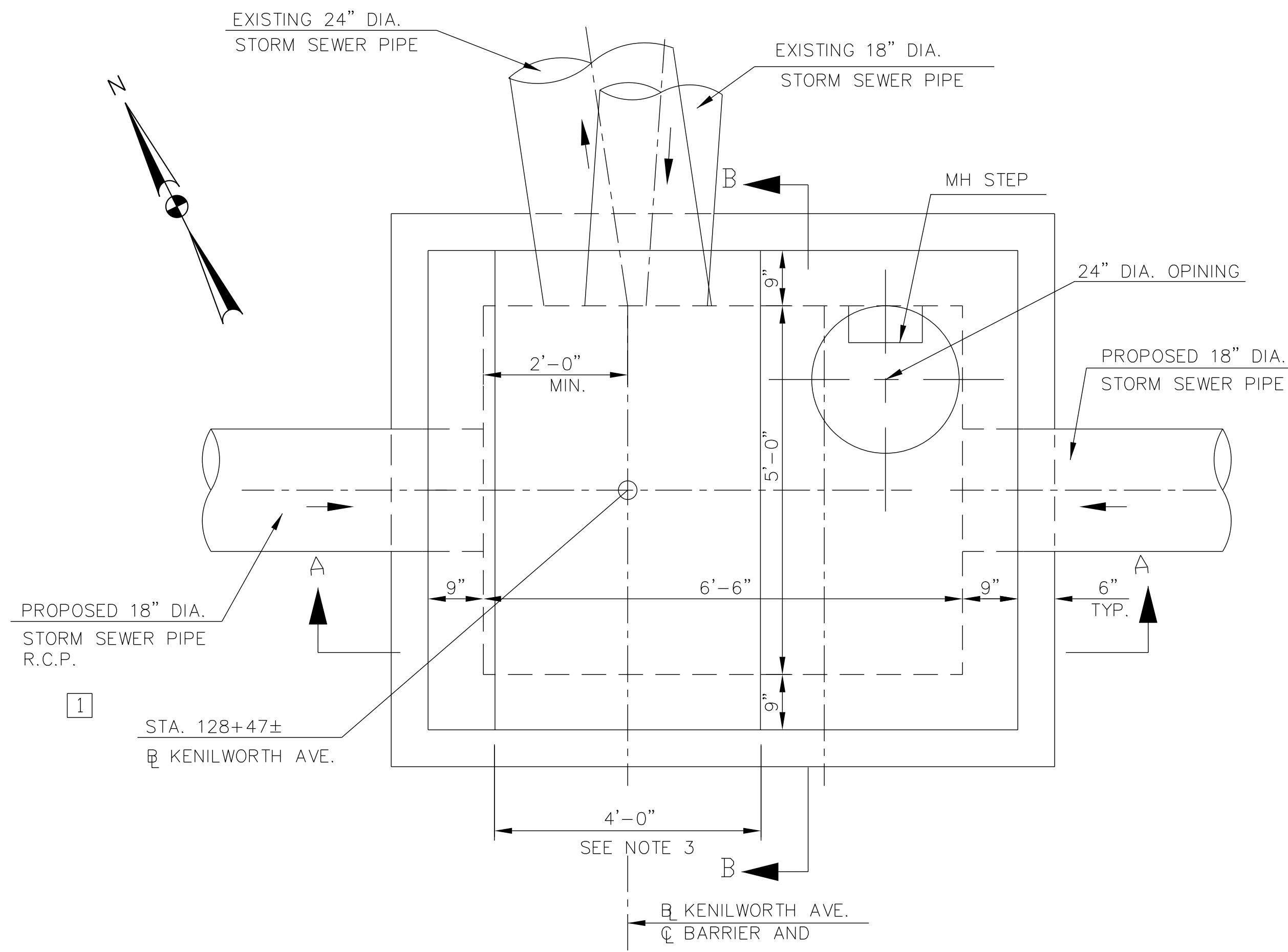
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MANHOLE DETAILS FOR MH-4

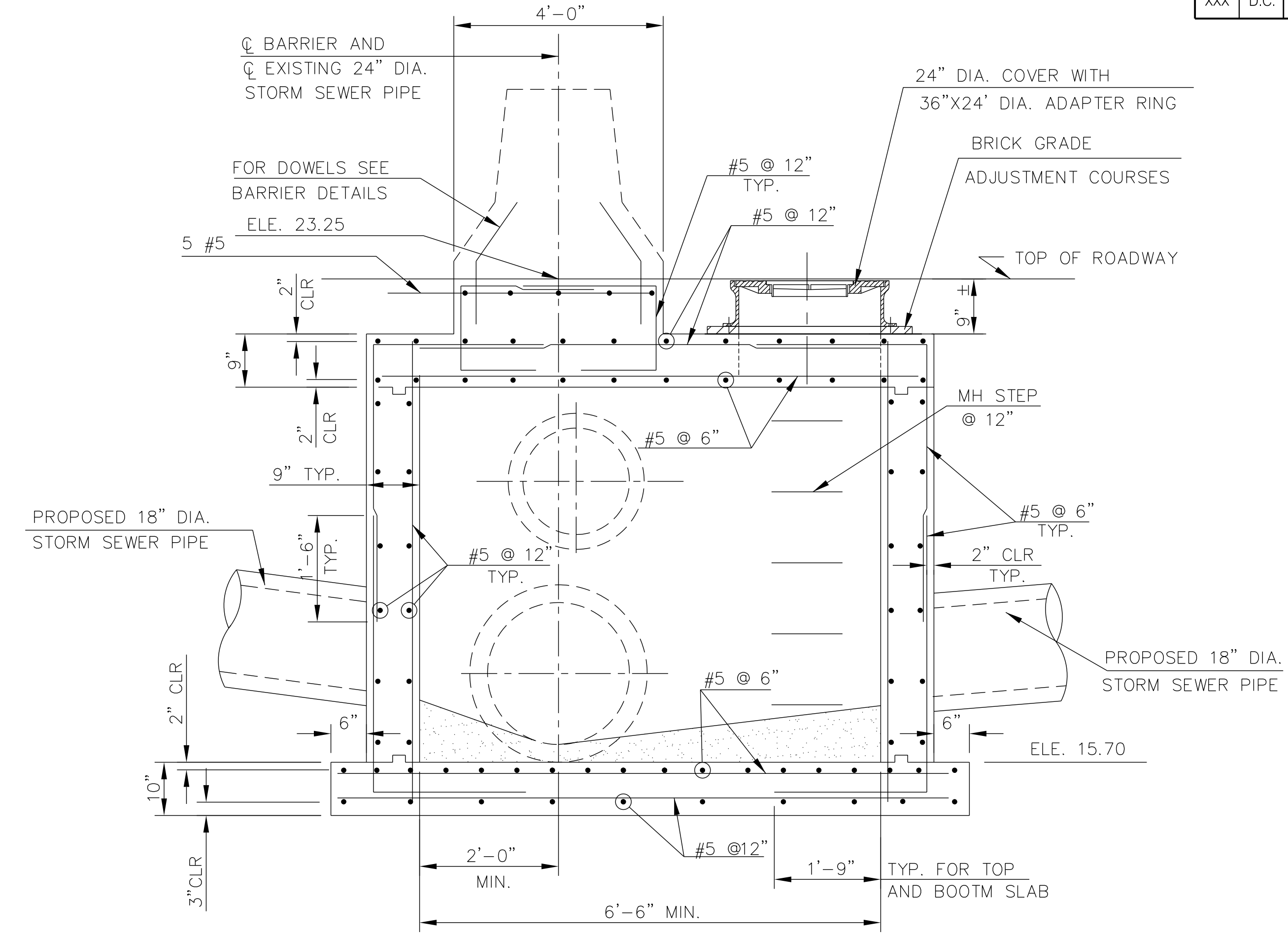
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DESIGNED BY	MR
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DRAWN BY	JM
PROJECT MGR.	PH
DIVISION CHIEF	
DATE	
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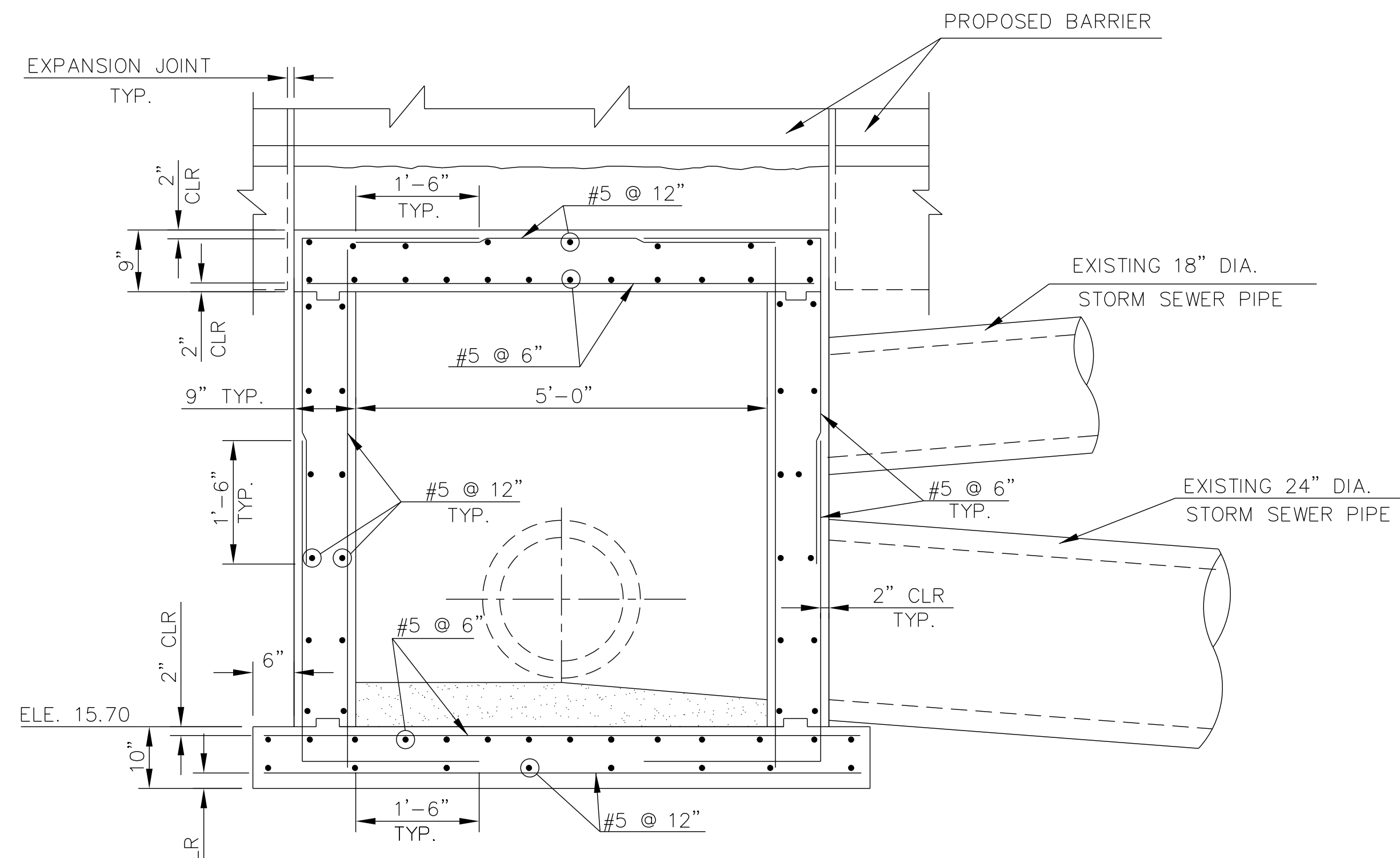
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2	CORRECT SPELLINGS	PH	07/29/2009
REVISIONS			



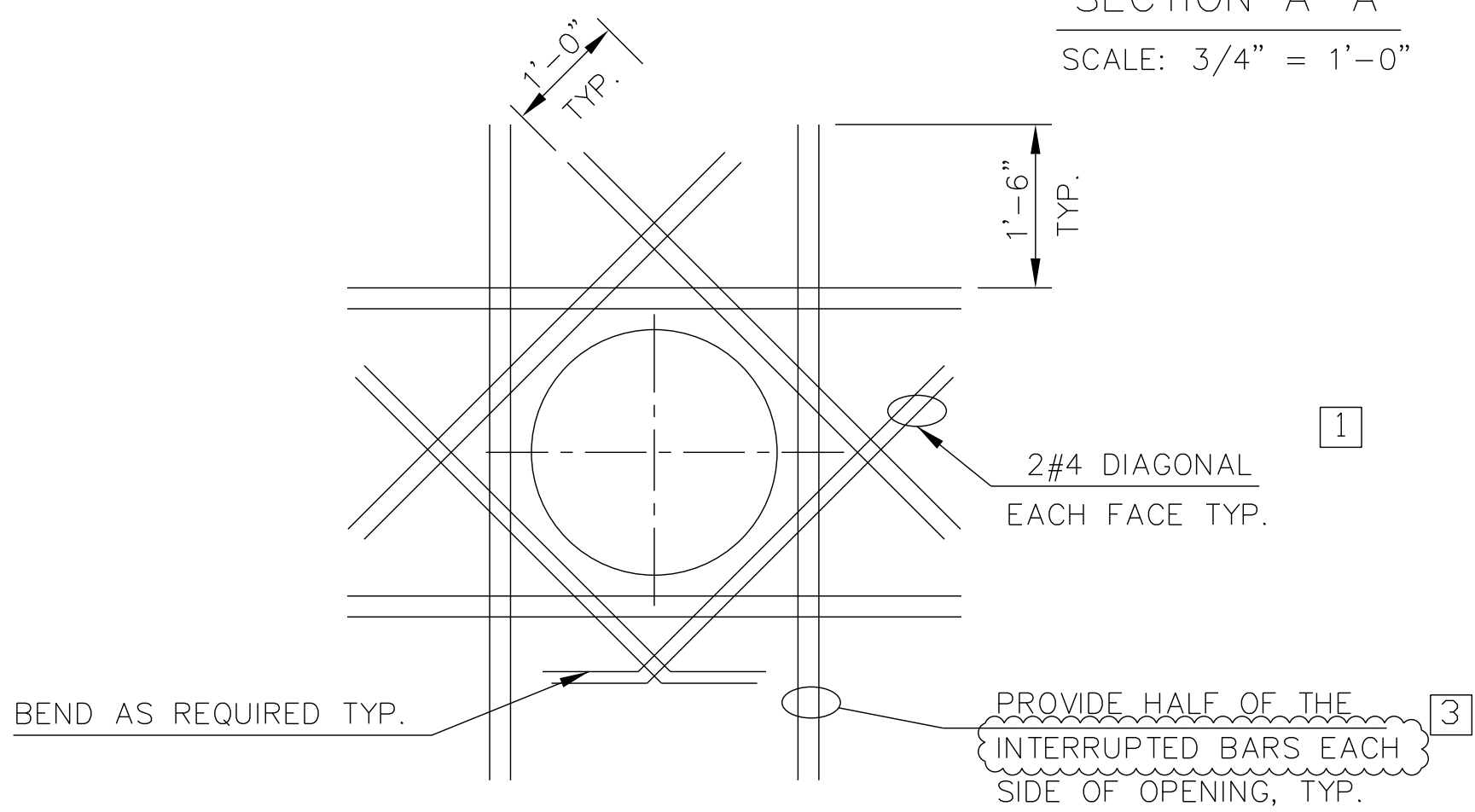
PROPOSED PLAN- MH-8
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



ADDITIONAL REINFORCING AT OPENING
SCALE: NONE

- NOTES:
1. FOR GENERAL NOTES SEE DD 04
 2. FOR WALL CORNER DETAIL SEE DD 04
 3. CONTRACTOR SHALL VERIFY THIS DIMENSION ON THE FIELD.

DD 05

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

MANHOLE DETAILS FOR MH-8

PROJECT ENG.	MR
DESIGNED BY	MR
CHECKED BY	PH
DRAWN BY	VM
PROJECT MGR.	PH
DIVISION CHIEF	
DATE	
FILE	
DWG NO. #	OF <TS>

NO.	DESCRIPTION	NAME	DATE
1	ADDED A BAR AND ADDED A NOTE	PH	06/11/2009
3	CORRECT SPELLINGS	PH	07/29/2009
REVISIONS			



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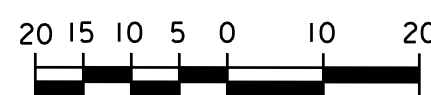
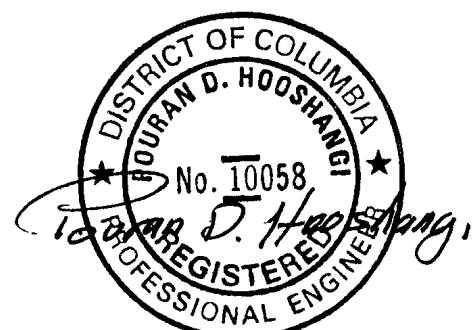
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	146	242



MATCH LINE - SEE SHEET ES 02

- NOTES:
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR PRIOR TO START THE WORK. CALL 202-535-2977.
 - SEDIMENT CONTROL PROTECTION FOR EXISTING INLETS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - SEDIMENT CONTROL FOR NEW INLETS SHALL BE INSTALLED IMMEDIATELY AFTER INLET IS CONSTRUCTED AND PAVEMENT HAS CURED.
 - SEDIMENT CONTROL PROTECTION SHALL BE INSTALLED ON EXISTING NEARBY INLETS OUTSIDE LIMIT OF WORK THAT ARE IMPACTED BY THE CONSTRUCTION. SEE SHEETS ES 21 THROUGH ES 25 FOR DETAILS AND NOTES OF SOIL EROSION SEDIMENT CONTROL.
 - THE CONTRACTOR SHALL CALL THE INSPECTION / ENFORCEMENT BRANCH, WATERSHED PROTECTION DIVISION, DISTRICT DEPARTMENT OF THE ENVIRONMENT AT (202) 535-2240 FOR A PRE-CONSTRUCTION MEETING 72 HOURS PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.

- LEGEND:
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



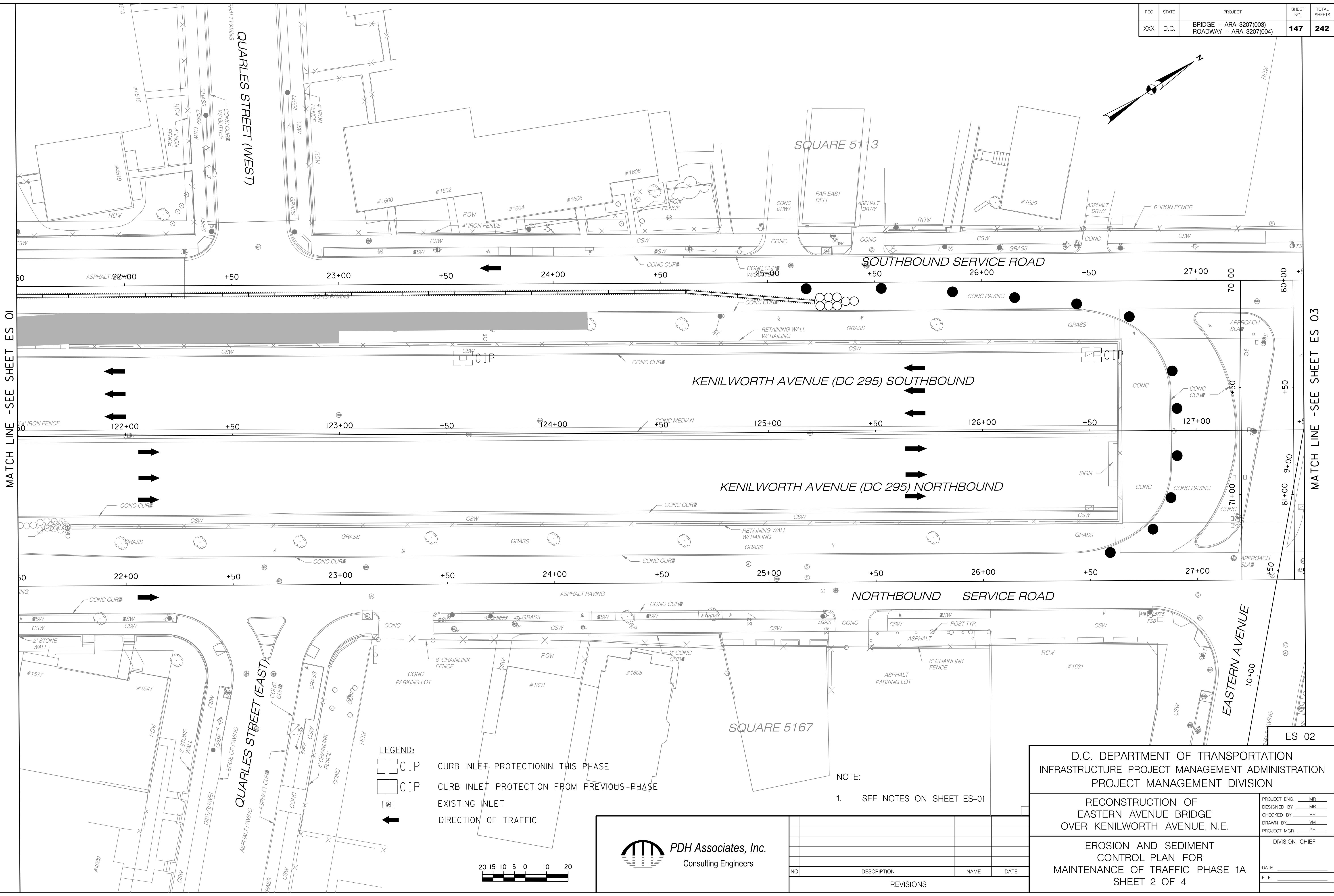
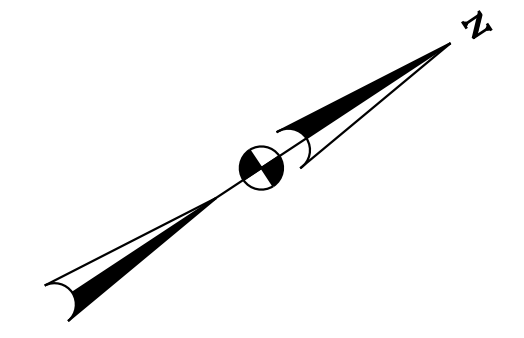
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

ES 01

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u>
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 1A SHEET 1 OF 4	DIVISION CHIEF DATE _____ FILE _____

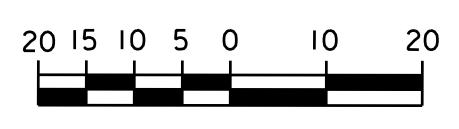
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	147	242



- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC

NOTE:
1. SEE NOTES ON SHEET ES-01



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

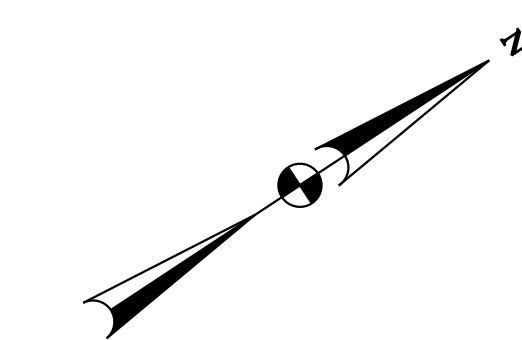
RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 1A
SHEET 2 OF 4

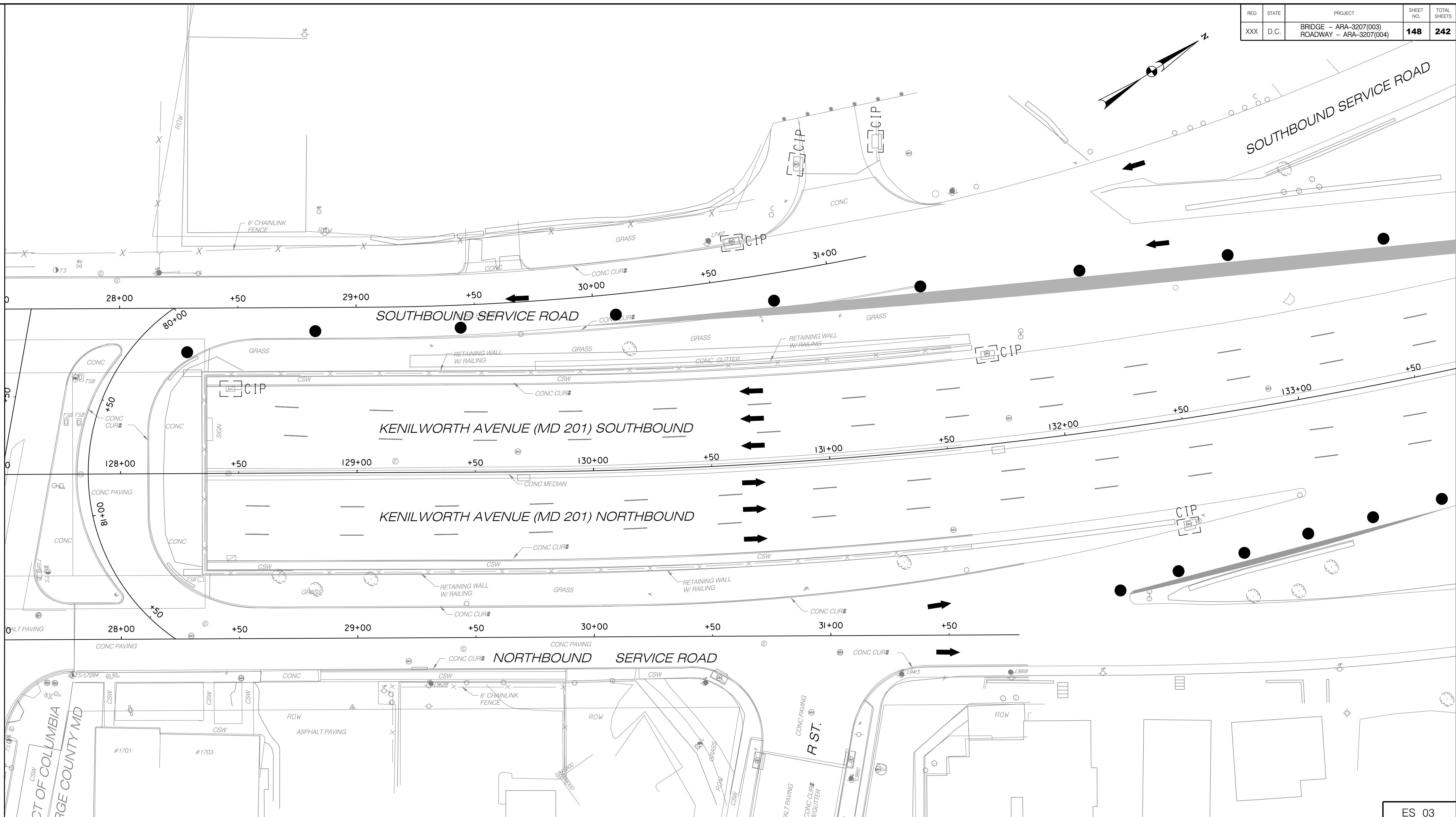
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DESIGNED BY _____ MR.	DATE _____
CHECKED BY _____ PH.	FILE _____
DRAWN BY _____ JM.	
PROJECT MGR. _____ PH.	

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	148	242



MATCH LINE - SEE SHEET ES 02



NOTE:
1. SEE NOTES ON SHEET ES-01

LEGEND:

- CIP CURB INLET PROTECTION IN THIS PHASE
- CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
- EXISTING INLET
- DIRECTION OF TRAFFIC

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PDH Associates, Inc.
Consulting Engineers

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

ES 03

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

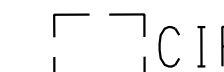



EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 1A
SHEET 3 OF 4

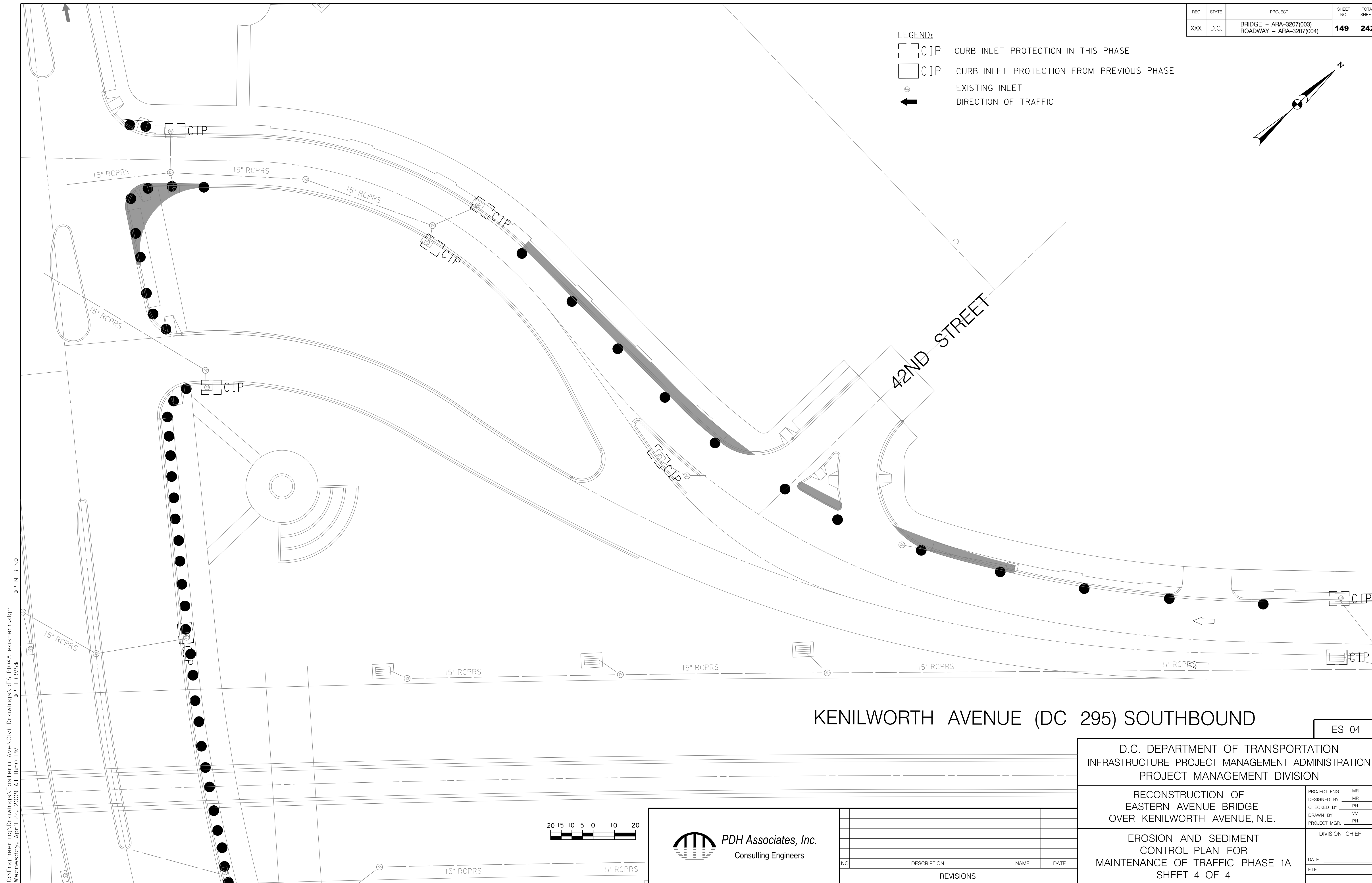
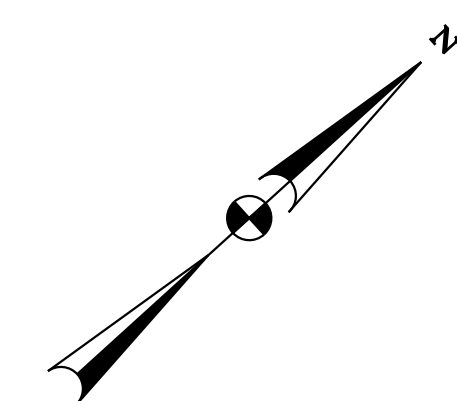
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DESIGNED BY _____ MR _____	DATE _____
CHECKED BY _____ PH _____	FILE _____
DRAWN BY _____ VM _____	
PROJECT MGR. _____ PH _____	

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	149	242

LEGEND:

-  CIP CURB INLET PROTECTION IN THIS PHASE
-  CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
-  EXISTING INLET
-  DIRECTION OF TRAFFIC

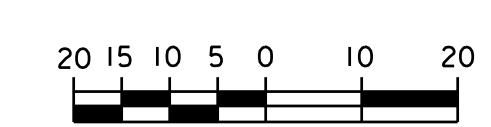


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KENILWORTH AVENUE (DC 295) SOUTHBOUND

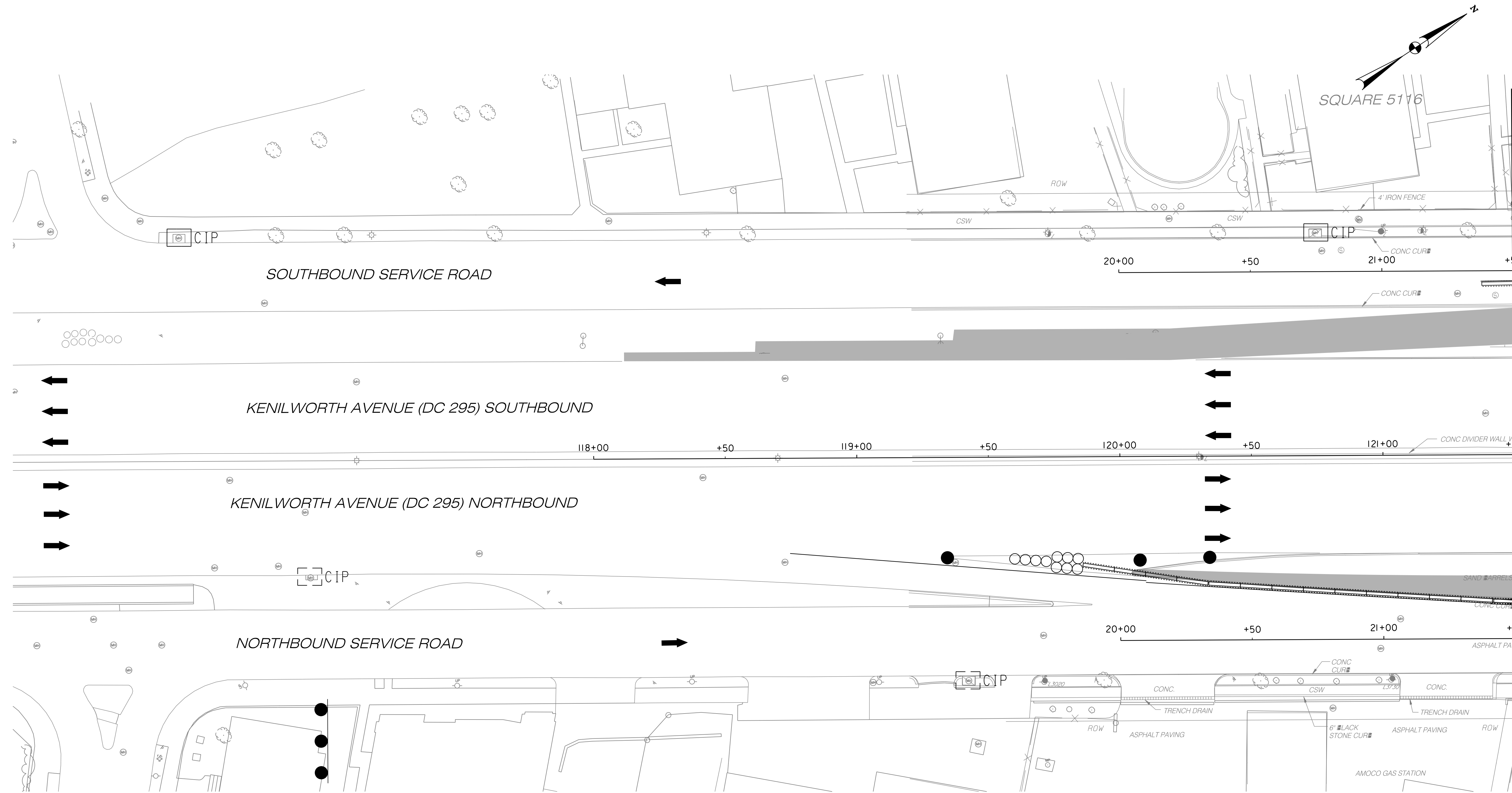
ES 04

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. MR DESIGNED BY MR CHECKED BY PH DRAWN BY VM PROJECT MGR. PH
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 1A SHEET 4 OF 4	DIVISION CHIEF DATE _____ FILE _____



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	150	242

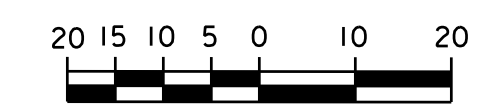


MATCH LINE - SEE SHEET ES 06

NOTES:
1. SEE NOTES ON SHEET ES-01

LEGEND:

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		DIRECTION OF TRAFFIC

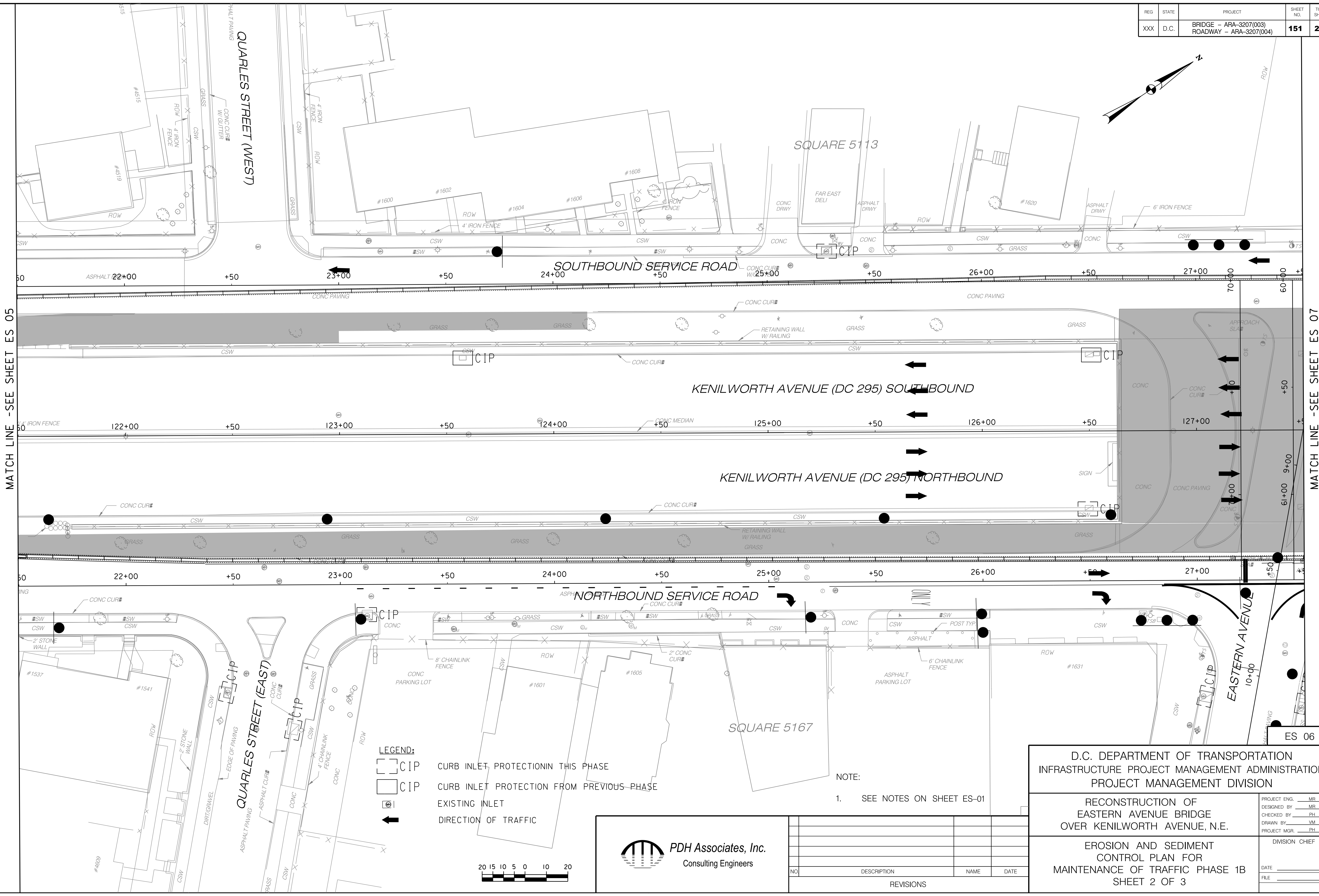
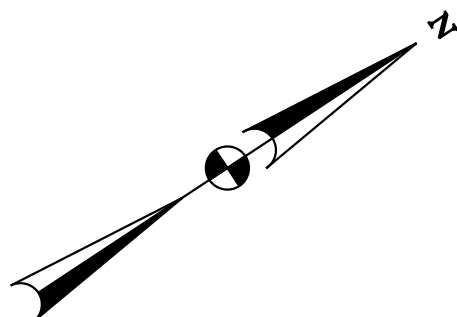


PDH Associates, Inc.
Consulting Engineers

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

ES 05	
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 1B SHEET 1 OF 3	
PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u>	DIVISION CHIEF DATE _____ FILE _____

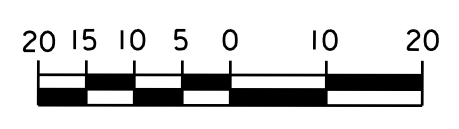
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LEGEND:

- CIP CURB INLET PROTECTION IN THIS PHASE
- CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
- EXISTING INLET
- DIRECTION OF TRAFFIC



NOTE:
1. SEE NOTES ON SHEET ES-01



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

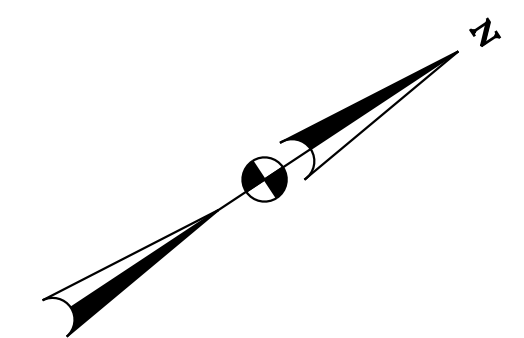
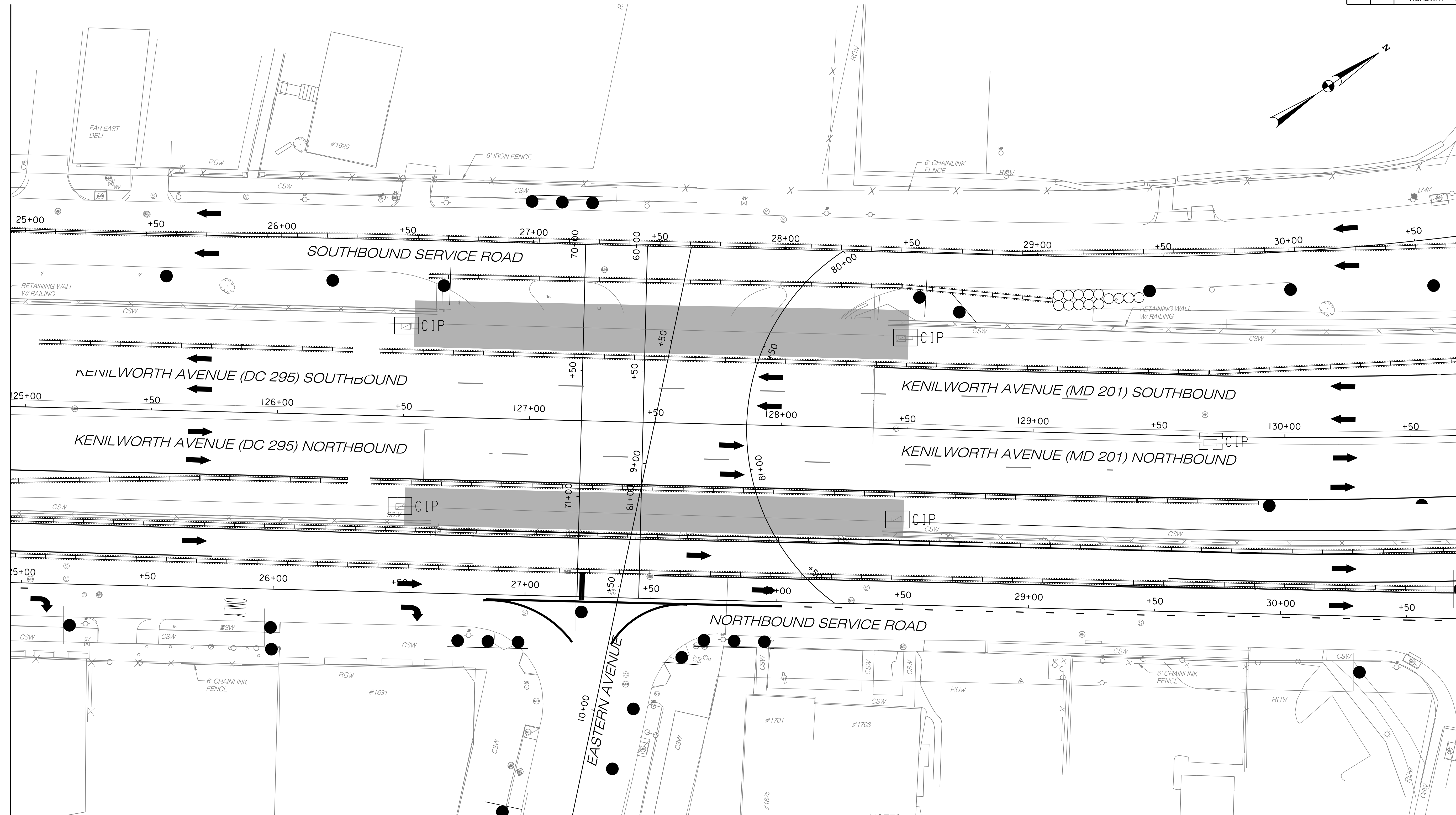
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 1B
SHEET 2 OF 3

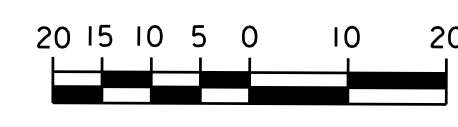
PROJECT ENG.	MR.
DESIGNED BY	MR.
CHECKED BY	PH.
DRAWN BY	JM.
PROJECT MGR.	PH.
DIVISION CHIEF	
DATE	
FILE	

ES 06



- NOTES:
- SEE NOTES ON SHEET ES-01
 - SEDIMENT CONTROL FOR THE EXISTING INLETS UNDER THE EXISTING BRIDGE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION IN THIS AREA.

- LEGEND:
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC

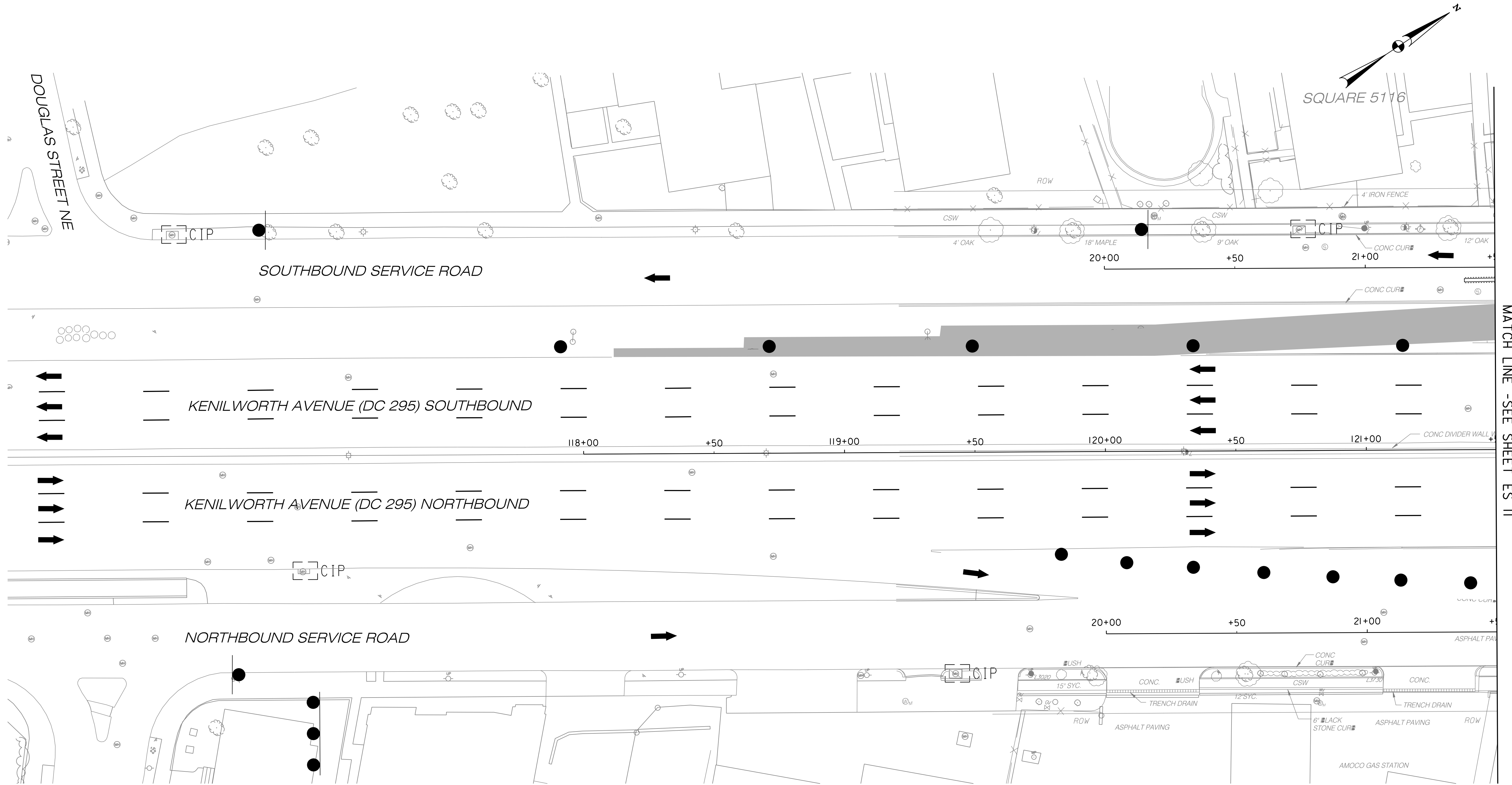


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 2A SHEET 1 OF 1	
PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u>	DIVISION CHIEF DATE _____ FILE _____

ES 08

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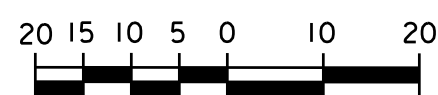
MATCH LINE - SEE SHEET ES 11

NOTES:

- SEE NOTES ON SHEET ES-01

LEGEND:

- CIP CURB INLET PROTECTION IN THIS PHASE
- CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
- EXISTING INLET
- DIRECTION OF TRAFFIC



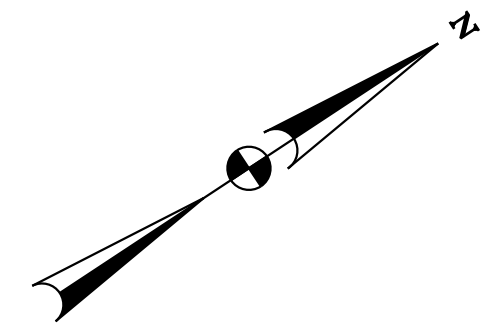
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

ES 10

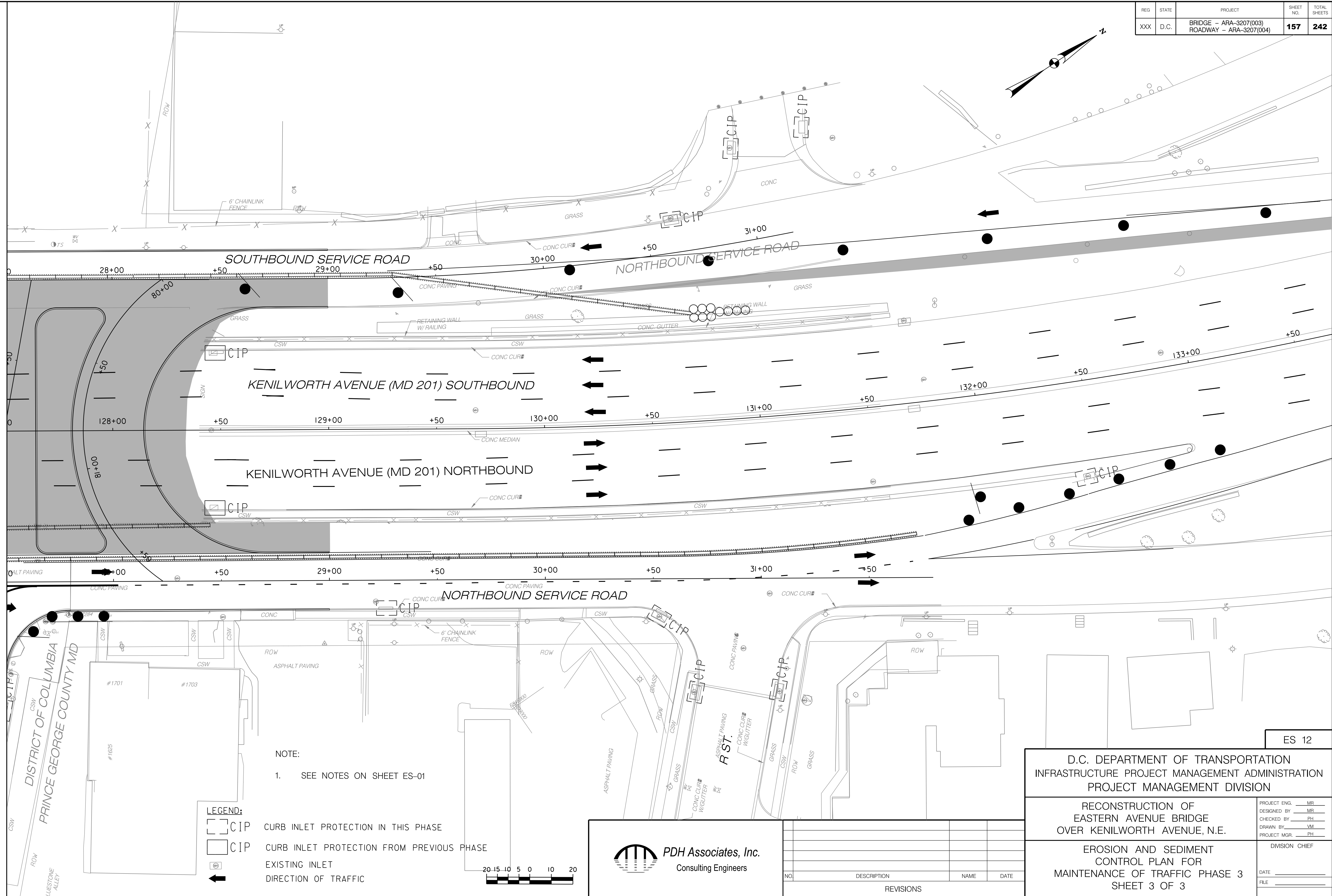
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 3 SHEET 1 OF 3	
PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u>	DIVISION CHIEF DATE _____ FILE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	157	242

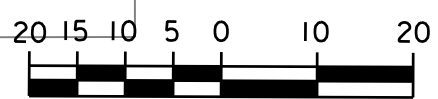


MATCH LINE - SEE SHEET ES II



NOTE:
1. SEE NOTES ON SHEET ES-01

- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



ES 12

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

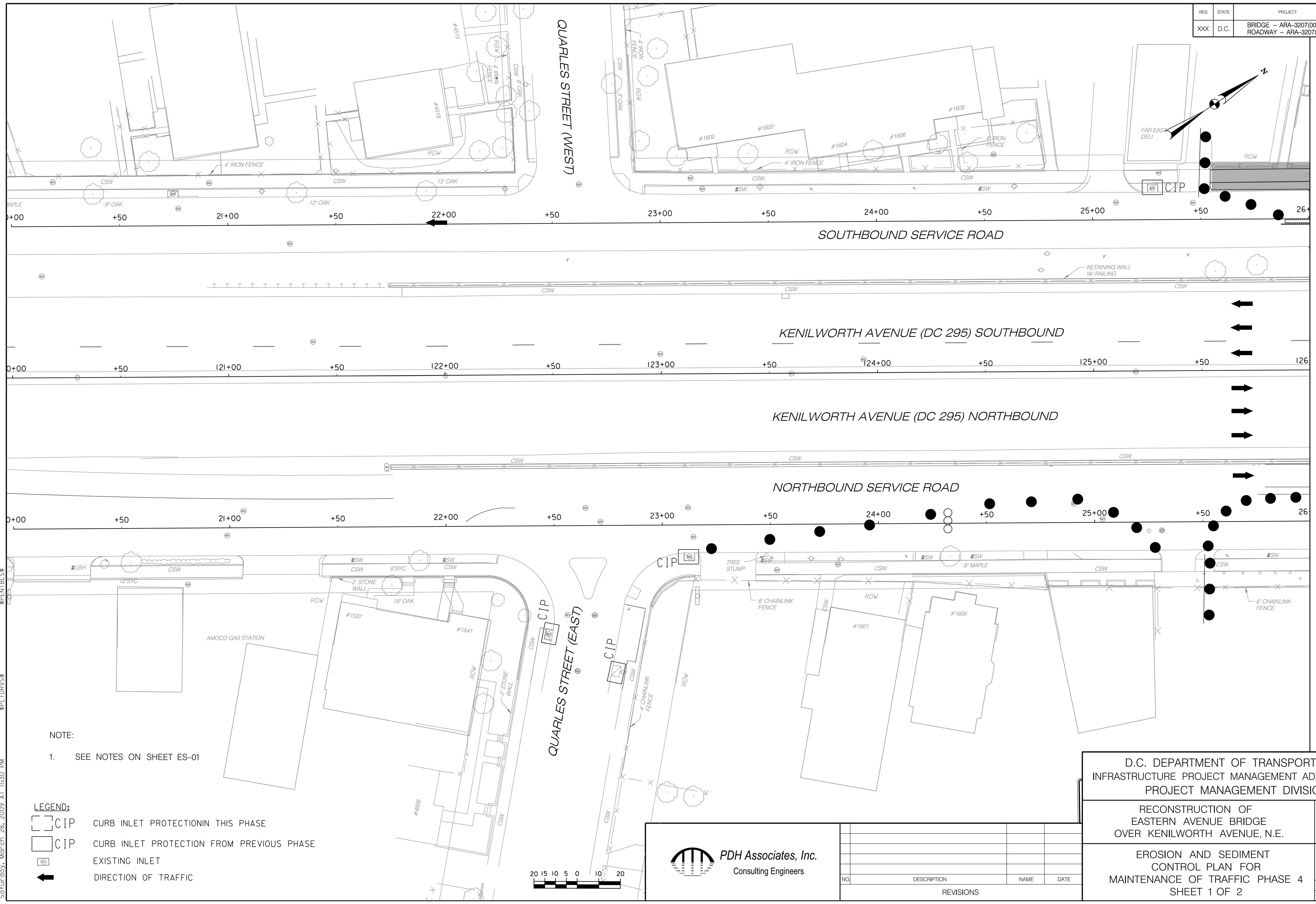
EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 3
SHEET 3 OF 3

PROJECT ENG.	MR
DESIGNED BY	MR
CHECKED BY	PH
DRAWN BY	JM
PROJECT MGR.	PH
DIVISION CHIEF	
DATE	_____
FILE	_____

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	158	242

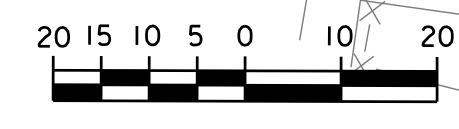


MATCH LINE - SEE SHEET ES 14

ES 13

NOTE:
1. SEE NOTES ON SHEET ES-01

- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



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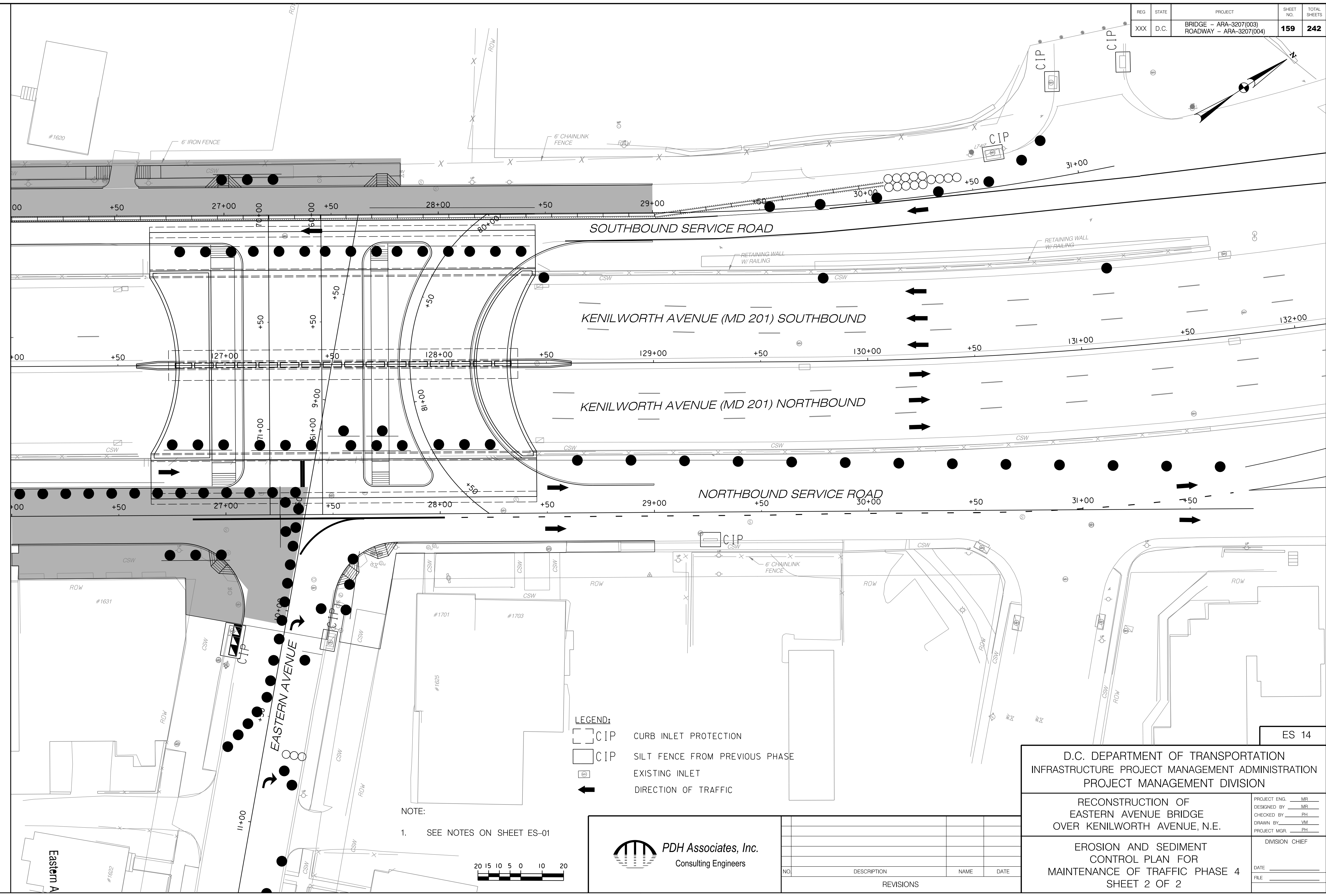
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 4 SHEET 1 OF 2	PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u> DIVISION CHIEF DATE _____ FILE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	159	242

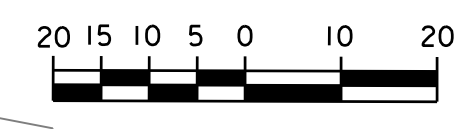
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- LEGEND:**
- CIP CURB INLET PROTECTION
 - CIP SILT FENCE FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC

NOTE:
1. SEE NOTES ON SHEET ES-01



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

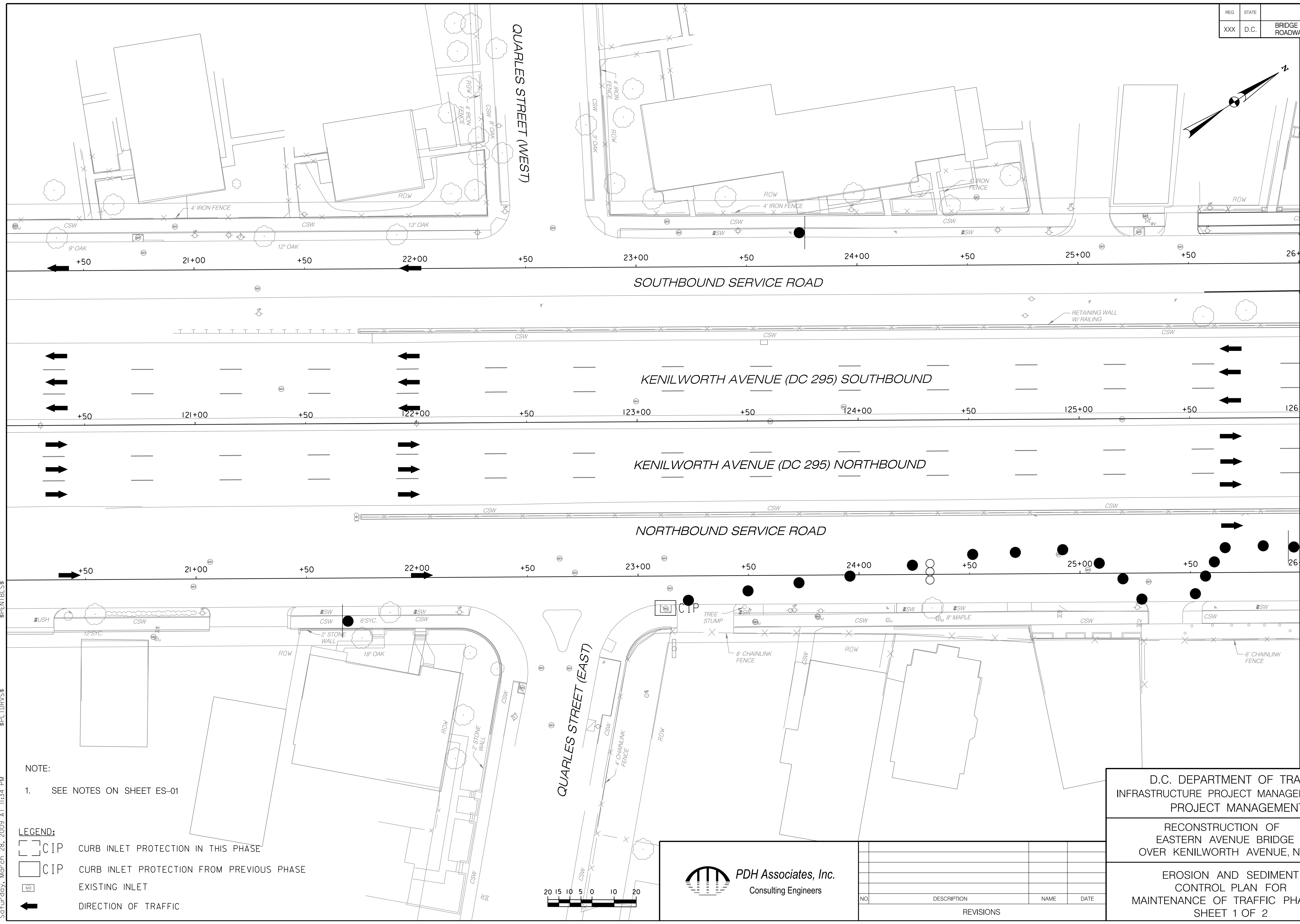
RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT
 CONTROL PLAN FOR
 MAINTENANCE OF TRAFFIC PHASE 4
 SHEET 2 OF 2

PROJECT ENG. _____ MR.
 DESIGNED BY _____ MR.
 CHECKED BY _____ PH.
 DRAWN BY _____ JM.
 PROJECT MGR. _____ PH.
 DIVISION CHIEF
 DATE _____
 FILE _____

ES 14

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	160	242



MATCH LINE -SEE SHEET ES 16

ES 15

NOTE:
1. SEE NOTES ON SHEET ES-01

- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 5
SHEET 1 OF 2

PROJECT ENG. _____ MR
DESIGNED BY _____ MR
CHECKED BY _____ PH
DRAWN BY _____ JM
PROJECT MGR. _____ PH

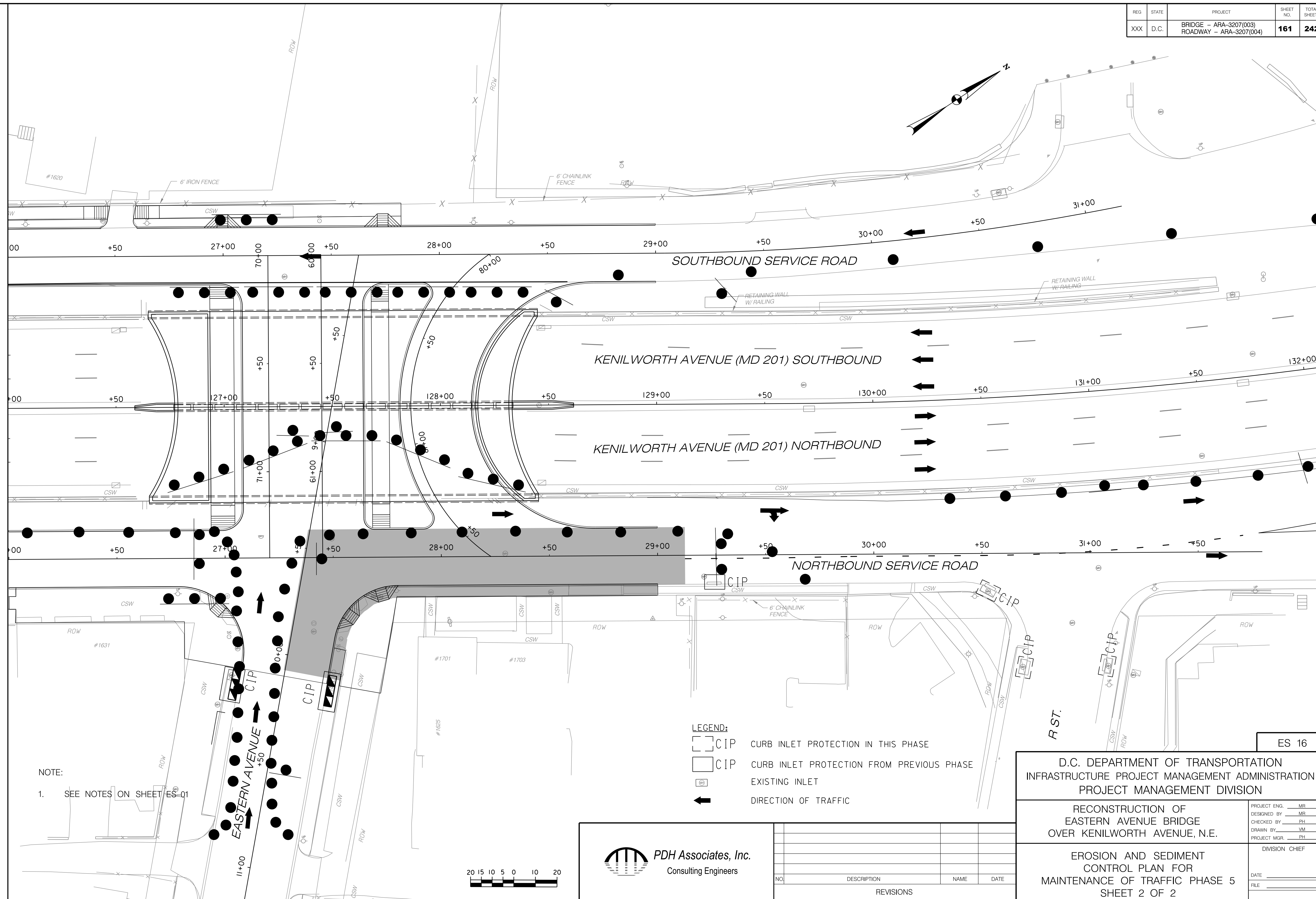
DIVISION CHIEF

DATE _____
FILE _____

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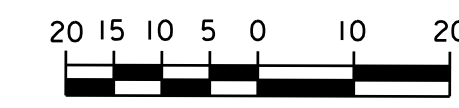
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	161	242

MATCH LINE -SEE SHEET ES 15



NOTE:
1. SEE NOTES ON SHEET ES-01

- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



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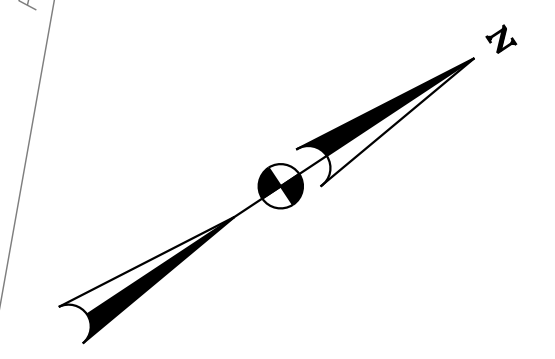
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
EROSION AND SEDIMENT CONTROL PLAN FOR MAINTENANCE OF TRAFFIC PHASE 5 SHEET 2 OF 2	
PROJECT ENG. <u>MR</u> DESIGNED BY <u>MR</u> CHECKED BY <u>PH</u> DRAWN BY <u>JM</u> PROJECT MGR. <u>PH</u>	DIVISION CHIEF DATE _____ FILE _____

ES 16

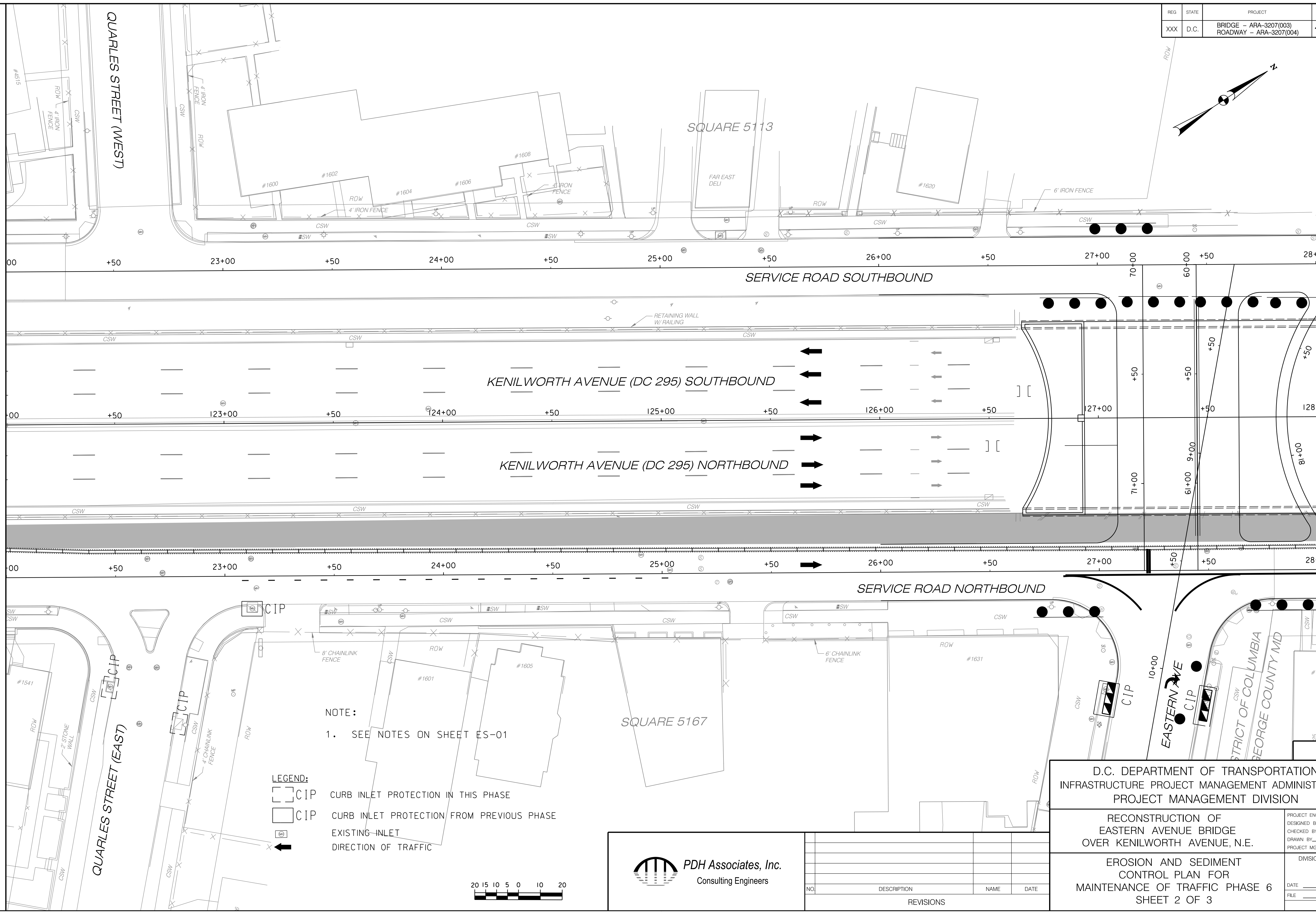
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	163	242



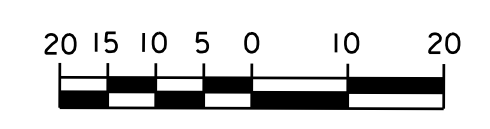
MATCH LINE - SEE SHEET ES 17

MATCH LINE - SEE SHEET ES 19



NOTE:
1. SEE NOTES ON SHEET ES-01

- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

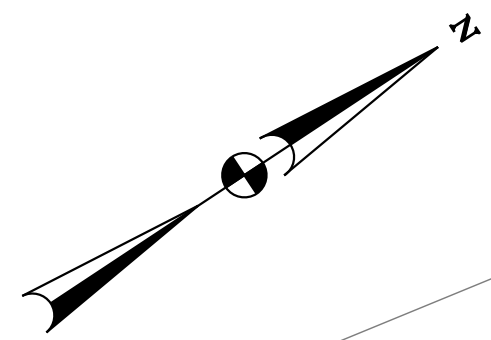
EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 6
SHEET 2 OF 3

PROJECT ENG. _____	DIVISION CHIEF _____
DESIGNED BY _____	DATE _____
CHECKED BY _____	FILE _____
DRAWN BY _____	
PROJECT MGR. _____	

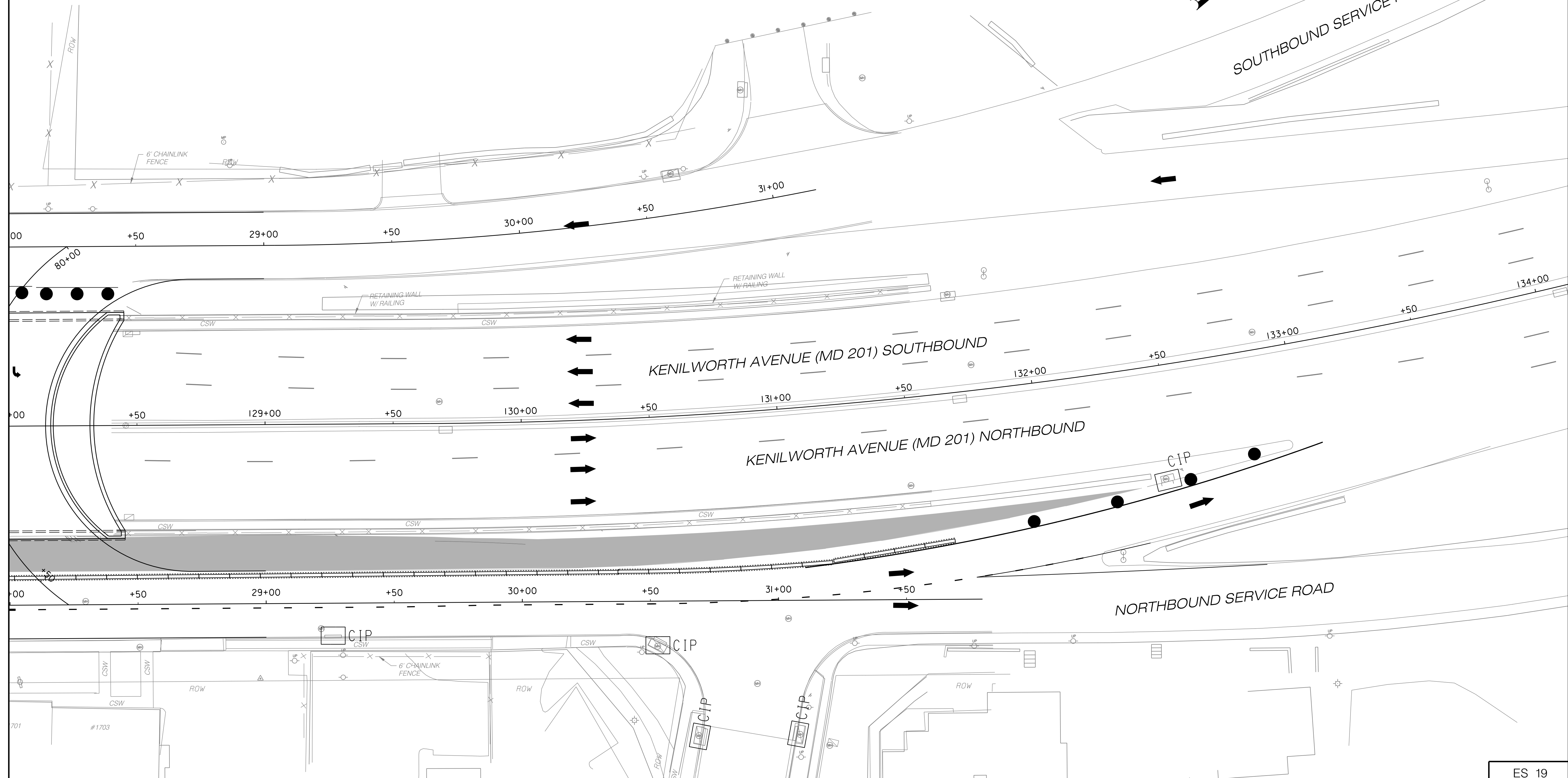
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ES 18

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	164	242

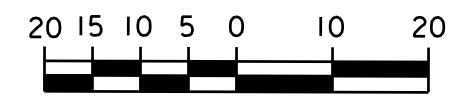


MATCH LINE - SEE SHEET ES 18



NOTE:
1. SEE NOTES ON SHEET ES-01

- LEGEND:**
- CIP CURB INLET PROTECTION IN THIS PHASE
 - CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
 - EXISTING INLET
 - DIRECTION OF TRAFFIC



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

ES 19

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT
CONTROL PLAN FOR
MAINTENANCE OF TRAFFIC PHASE 6
SHEET 3 OF 3

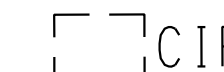



PROJECT ENG. MR
DESIGNED BY MR
CHECKED BY PH
DRAWN BY JM
PROJECT MGR. PH

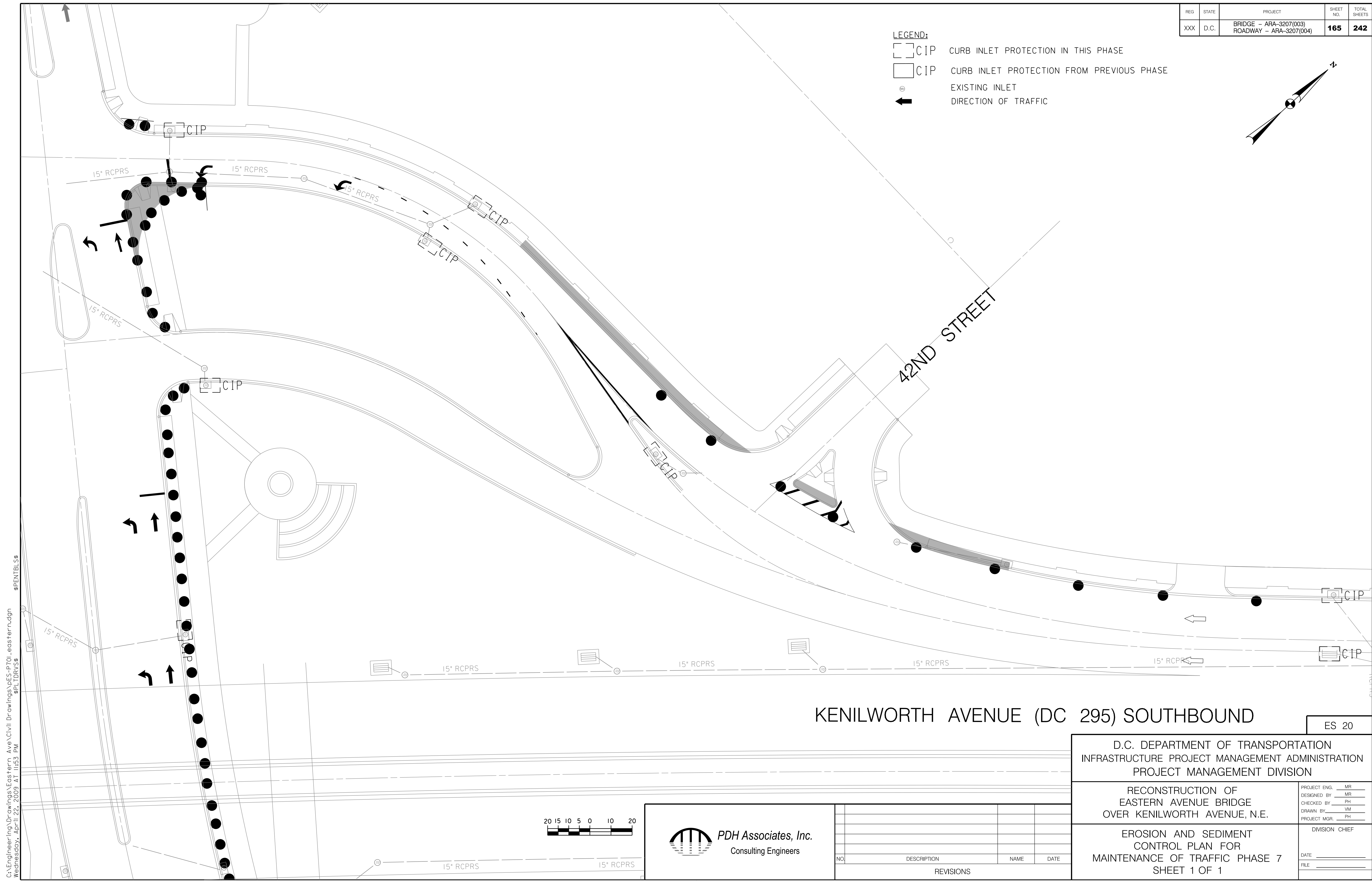
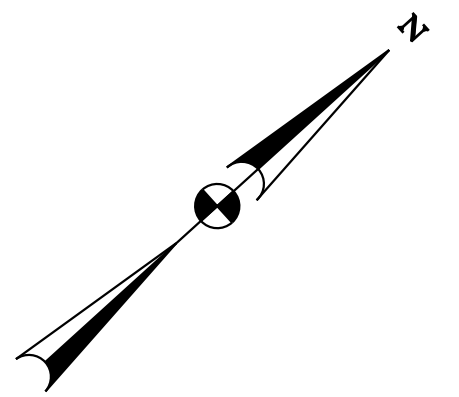
DIVISION CHIEF
DATE _____
FILE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - APA-3207(003) ROADWAY - APA-3207(004)	165	242

LEGEND:

-  CIP CURB INLET PROTECTION IN THIS PHASE
-  CIP CURB INLET PROTECTION FROM PREVIOUS PHASE
-  EXISTING INLET
-  DIRECTION OF TRAFFIC



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KENILWORTH AVENUE (DC 295) SOUTHBOUND

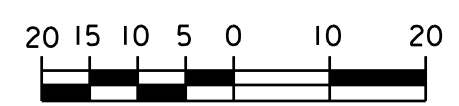
ES 20

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

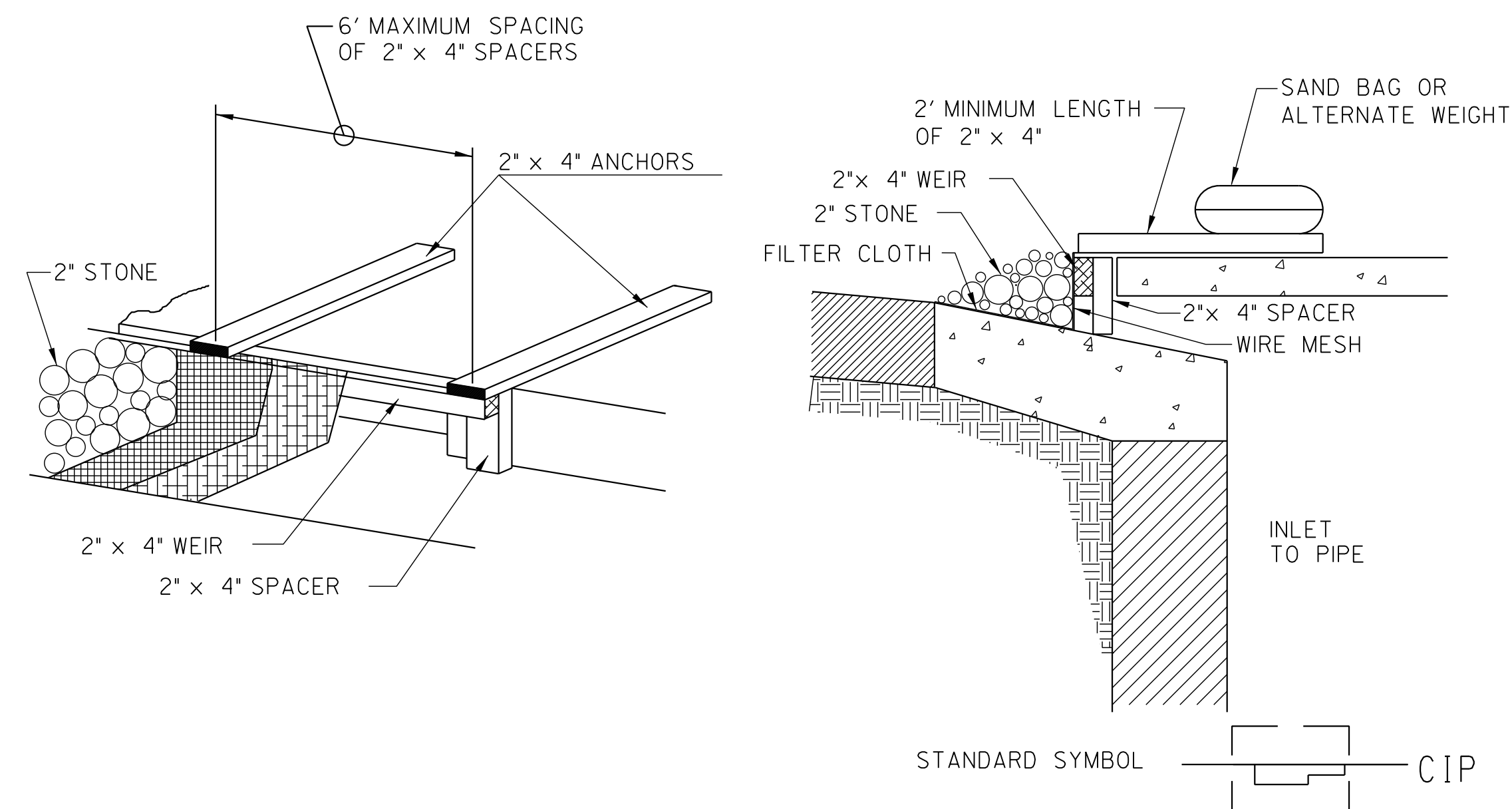
RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT
 CONTROL PLAN FOR
 MAINTENANCE OF TRAFFIC PHASE 7
 SHEET 1 OF 1

PROJECT ENG.	MR
DESIGNED BY	MR
CHECKED BY	PH
DRAWN BY	VM
PROJECT MGR.	PH
DIVISION CHIEF	
DATE	_____
FILE	_____



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



CONSTRUCTION SPECIFICATIONS

I. MATERIALS

- A. WOODEN FRAME IS TO BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
- B. WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC, AND STONE FOR CURB INLETS, WITH WATER FULLY IMPOUNDED AGAINST IT.
- C. FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE; RESISTANT TO SUNLIGHT WITH SIEVE SIZE, E0S, 40-85, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
- D. STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.

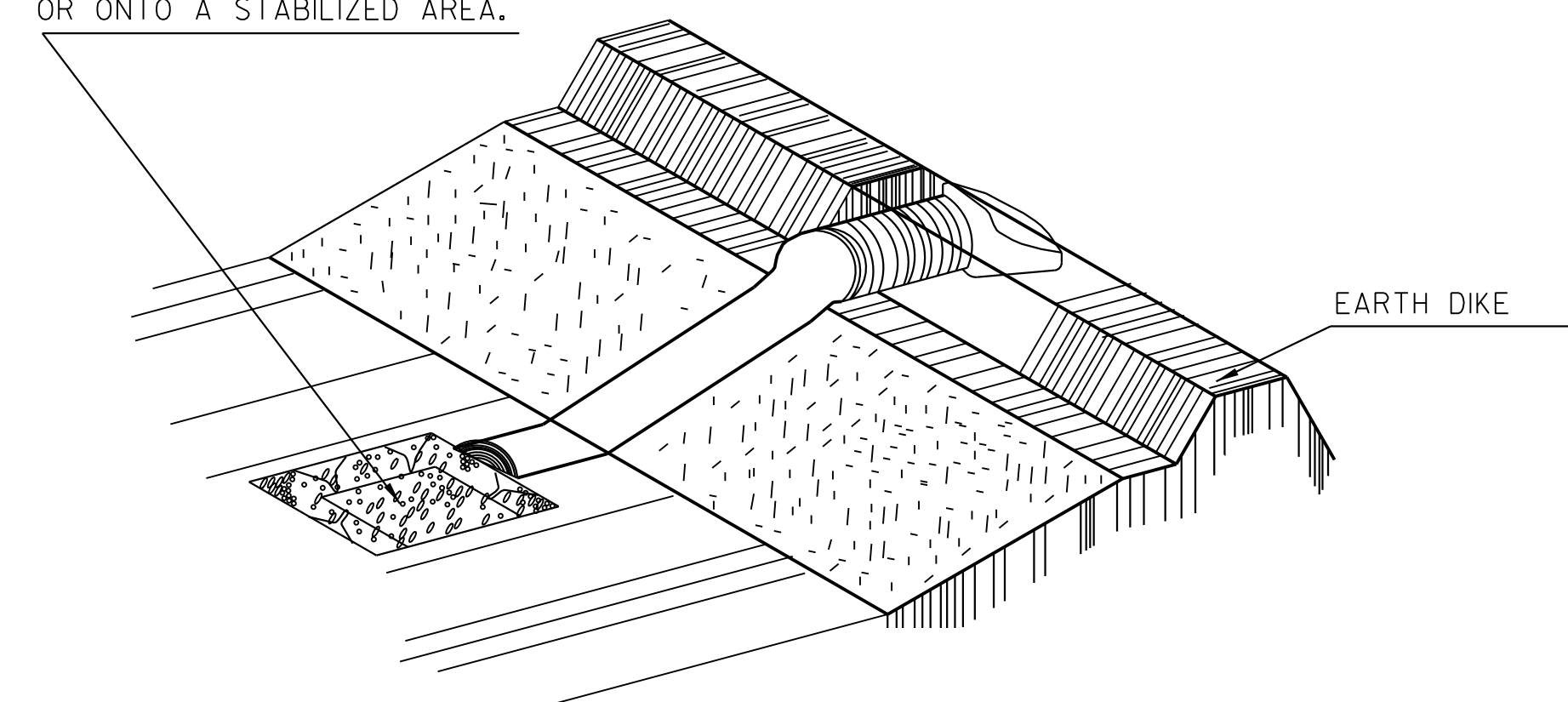
II. PROCEDURE

A. CURB INLET PROTECTION

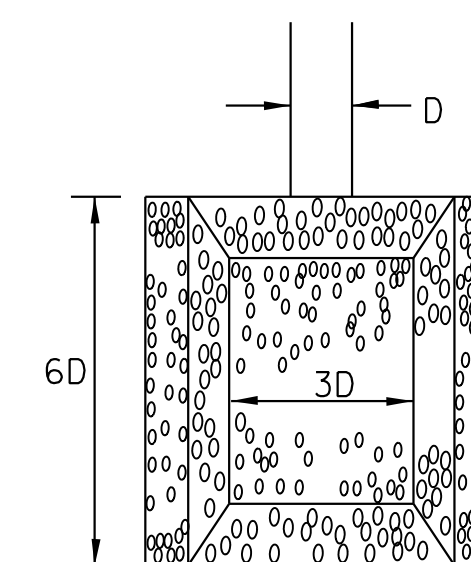
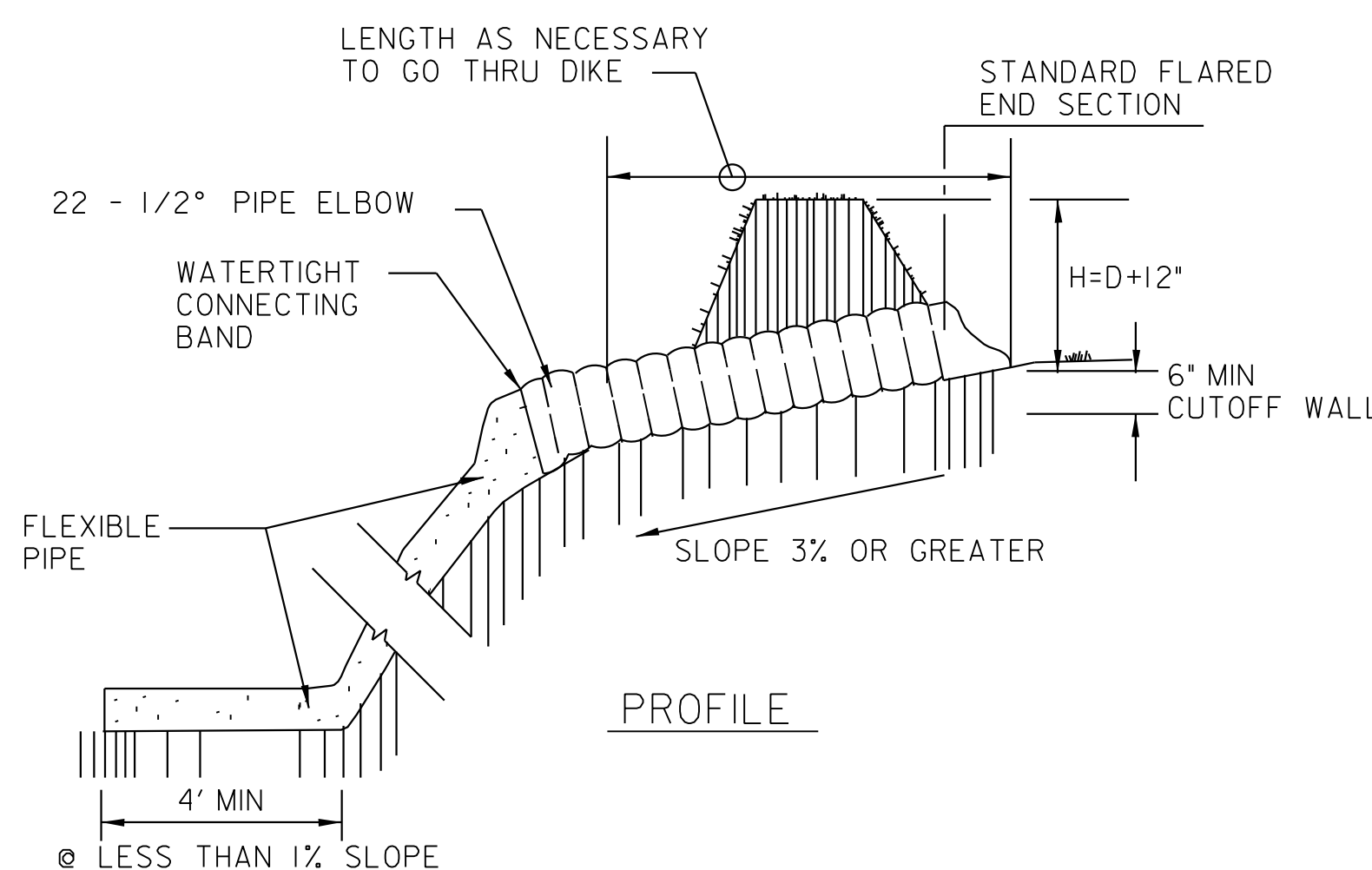
1. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MIN. WIDTH BY THROAT LENGTH PLUS 4") TO THE 2" x 4" WEIR (MEASURING THROAT LENGTH PLUS 2") AS SHOWN ON THE STANDARD DRAWING.
2. PLACE A PIECE OF APPROVED FILTER CLOTH (40-85 SIEVE) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2" x 4" WEIR.
3. SECURELY NAIL THE 2" x 4" WEIR TO 9" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WEIR AND INLET FACE (MAX. 6' APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2' LENGTHS OF 2" x 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THESE 2" x 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE GUTTER AND AGAINST THE FACE OF CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO THE INLET.

INLET PROTECTION

DISCHARGE INTO A STABILIZED WATERCOURSE, SEDIMENT TRAPPING DEVICE, OR ONTO A STABILIZED AREA.



NOTE: SIZE DESIGNATION IS:
PSD-PIPE DIAM. (EX., PSD-18=
PIPE SLOPE DRAIN WITH 18"
DIAMETER PIPE)



RIPRAP SHALL CONSIST OF 6" DIAMETER STONE PLACED AS SHOWN. DEPTH OF APRON SHALL EQUAL THE PIPE DIAMETER AND RIPRAP SHALL BE A MINIMUM OF 12" IN THICKNESS.

RIPRAP APRON DETAIL

CONSTRUCTION SPECIFICATIONS

1. THE INLET PIPE SHALL HAVE A SLOPE OF 3% OR STEEPER.
2. THE TOP OF THE EARTH DIKE OVER THE INLET PIPE AND THOSE DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1' HIGHER AT ALL POINTS THAN THE TOP OF THE INLET PIPE.
3. THE INLET PIPE SHALL BE CORRUGATED METAL PIPE WITH WATERTIGHT CONNECTING BANDS.
4. THE FLEXIBLE TUBING SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD-DOWN GROMMETS SPACED 10" ON CENTERS.
5. THE FLEXIBLE TUBING SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL PIPE WITH METAL STRAPPING OR WATERTIGHT CONNECTING COLLARS.
6. THE FLEXIBLE TUBING SHALL BE SECURELY ANCHORED TO THE SLOPE BY STAKING AT THE GROMMETS PROVIDED.
7. A RIPRAP APRON SHALL BE PROVIDED AT THE OUTLET. THIS SHALL CONSIST OF 6" DIAMETER STONE PLACED AS SHOWN ON STANDARD DRAWING GSS-3.
8. THE SOIL AROUND AND UNDER THE INLET PIPE AND ENTRANCE SECTION SHALL BE HAND TAMPED IN 4" LIFTS TO THE TOP OF THE EARTH DIKE.
9. FOLLOW-UP INSPECTION AND ANY NEEDED MAINTENANCE SHALL BE PERFORMED AFTER EACH STORM.

* DRAINAGE AREA MUST NOT EXCEED 5 ACRES

STANDARD SYMBOL GSS-3
PSD-DIAM.

PIPE SLOPE DRAIN - FLEXIBLE, GSS-3

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



ES 21

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

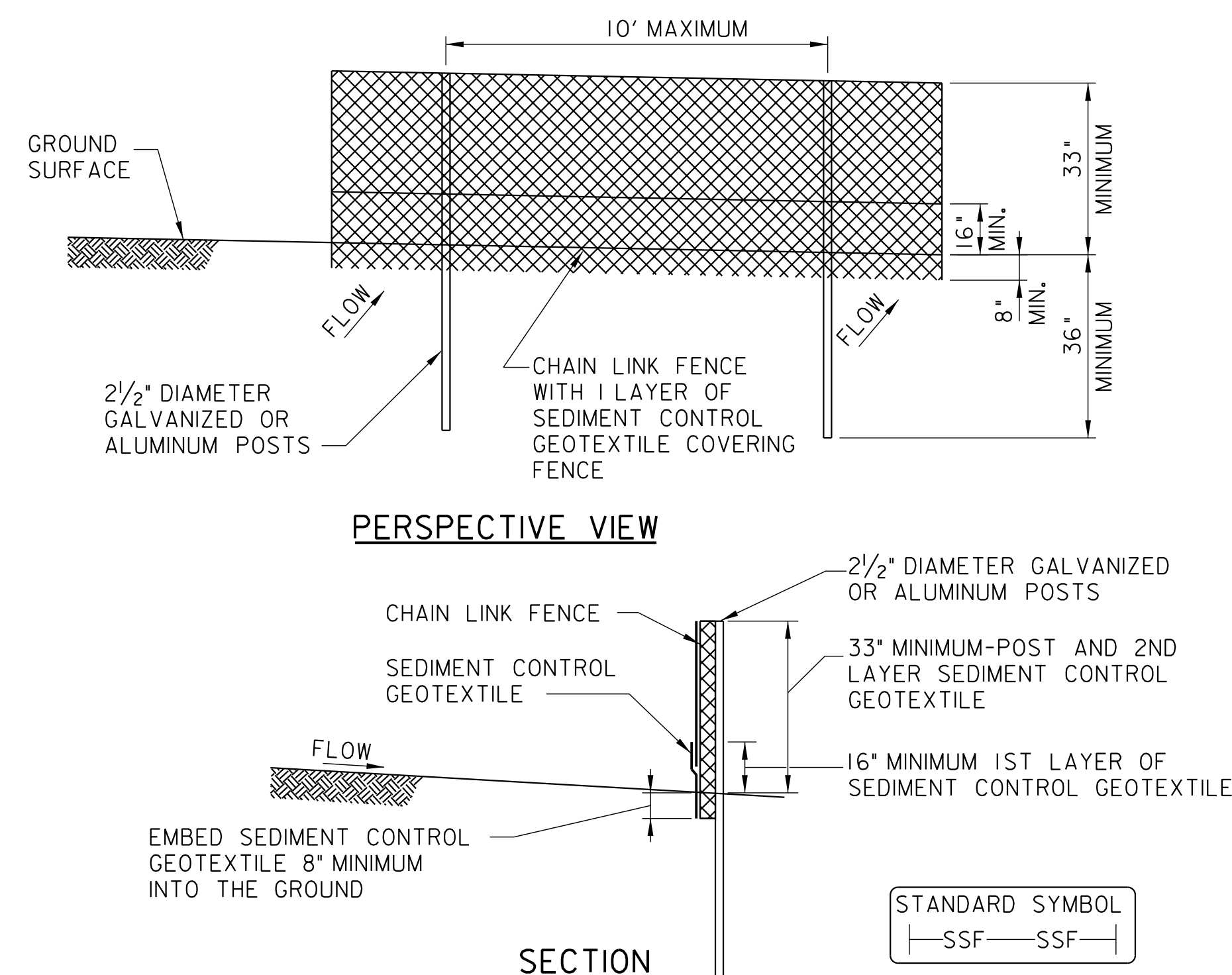
EROSION AND SEDIMENT CONTROL
DETAILS AND NOTES
SHEET 1 OF 5

PROJECT ENG. MR
DESIGNED BY MR
CHECKED BY PH
DRAWN BY JM
PROJECT MGR. PH

DIVISION CHIEF
DATE _____
FILE _____

SEDIMENT CONTROL APPROVAL

PLAN NUMBER



LIST OF STANDARD SYMBOLS

EARTH DIKE	
STRAW BALE DIKE	
SUPER SILT FENCE	
TEMPORARY SWALE	
STABILIZED CONSTRUCTION ENTRANCE	
GRADE STABILIZATION STRUCTURE	
PIPE SLOPE DRAIN	
PERIMETER DIKE/SWALE	
INLET PROTECTION	

DATE _____ FLOODING AND EROSION CONTROL SECTION
TEL. NO. (202)727-7047/7048

PROJECT NARRATIVE

THE PROJECT CONSISTS OF RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE INCLUDES THE DEMOLITION OF EXISTING BRIDGE AND CONSTRUCTION OF A NEW BRIDGE AT THE SAME LOCATION BUT AT A HIGHER ELEVATION. IT ALSO INCLUDES REMOVAL AND DISPOSAL OF EXISTING ROADWAY SURFACES AND SIDEWALKS TO THE EXTENTS SHOWN ON PLANS. ALSO RECONSTRUCTION OF ROADWAY, GRANITE CURB, CONCRETE SIDEWALK, DRIVEWAY ENETRENCES AND PCC GUTTERS ARE INCLUDED IN THIS PROJECT AND THE LIMITS ARE SHOWN ON THE PLANS.

THE WORK ALSO CONSISTS OF THE CONSTRUCTION/RECONSTRUCTION OF MANHOLES, STORM DRAINS, AND RELATED ITEMS. AT LOCATIONS SHOWN ONTHE PLANS, EXISTING MANHOLES, CATCH BASINS AND OTHER BUILT-IN STRUCTURES WILL BE ADJUSTED/REBUILT TO GRADE.

THE EXISTING STREET LIGHTING AND TRAFFIC SIGNALS WILL BE REPLACED AT LOCATIONS SHOWN ON PLANS. THE EXISTING FIRE HYDRANTS WILL BE CONVERTED TO THE TRAFFIC TYPE (BREAKAWAY).

LANDSCAPING AND TREE PLANTING WITHIN THE INTERCHANGE, IN THE ROADWAY MEDIAN AND ALONG THE SIDEWALK TREE SPACE AS SHOWN ON THE LANDSCAPING PLANS IS INCLUDED IN THE PROJECT.

CONSTRUCTION NOTES FOR SUPER SILT FENCE

- | | |
|---|--|
| 1. CHAIN LINK FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. | POSTS: 2 1/2" DIAMETER GALVANIZED OR ALUMINUM POSTS. |
| 2. SEDIMENT CONTROL GEOTEXTILE TO BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. | FENCE: CHAIN LINK. |
| 3. WHEN TWO SECTIONS OF SEDIMENT CONTROL GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIXTEEN INCHES AND FOLDED. | SEDIMENT CONTROL GEOTEXTILE: FILTER X, MIRAF100X, STABILINKA T 140N OR APPROVED EQUAL. |
| 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SUPER SILT FENCE. | |

SEDIMENT AND EROSION CONTROL NOTES:

- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER "STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA". IF AN ONSITE INSPECTION REVEALS FURTHER EROSION CONTROL METHODS ARE NECESSARY, THE SAME SHALL BE PROVIDED.
- ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
- ALLEY AND/OR STREETS/SIDEWALK SHALL BE SWEPT CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.
- ALL CATCH BASIN AND AREA DRAINS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
- IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRCTOR SHALL BE RESPONSIBLE FOR ITS CLEANING.
- ANY STOCKPILING, REGARDLESS OF LOCATION ON SITE, SHALL BE STABILIZED WITHIN 20 DAYS AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
- WHEN SEDIMENT TRAP/SEDIMENT TANK AS A REACHED 67% CAPACITY, CLEAN OUT OF SAME IS REQUIRED.
- IF AFTER RAZE OR DEMOLITION, THERE IS THE NEED FOR GROUNDCOVER TO PREVENT EROSION AND SEDIMENT RUNOFF FROM OCCURRING, THEN SOIL STABILIZATION MEASURES SUCH AS SEED, SOD, PAVE, BRICKBAT OR MULCH, ETC., SHALL BE PROVIDED.

TABLE OF ESTIMATED EARTHWORK QUANTITIES

LOCATION	DISTURBED AREA (S.F.)	COMMON * EXCAVATION (C.Y.)	EMBANKMENT * FILL (C.Y.)
RECONSTRUCTION			
EASTERN AVE. OVER KENILWORTH AVE., N.E	42700	2051	1290
TOTAL			

* ESTIMATED VOLUME. THESE VOLUMES ARE PROVIDED FOR THE EROSION AND SEDIMENT CONTROL PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTUAL VOLUME OF EXCAVATION AND EMBANKMENT REQUIRED TO COMPLETE THE WORK.

SUPER SILT FENCE

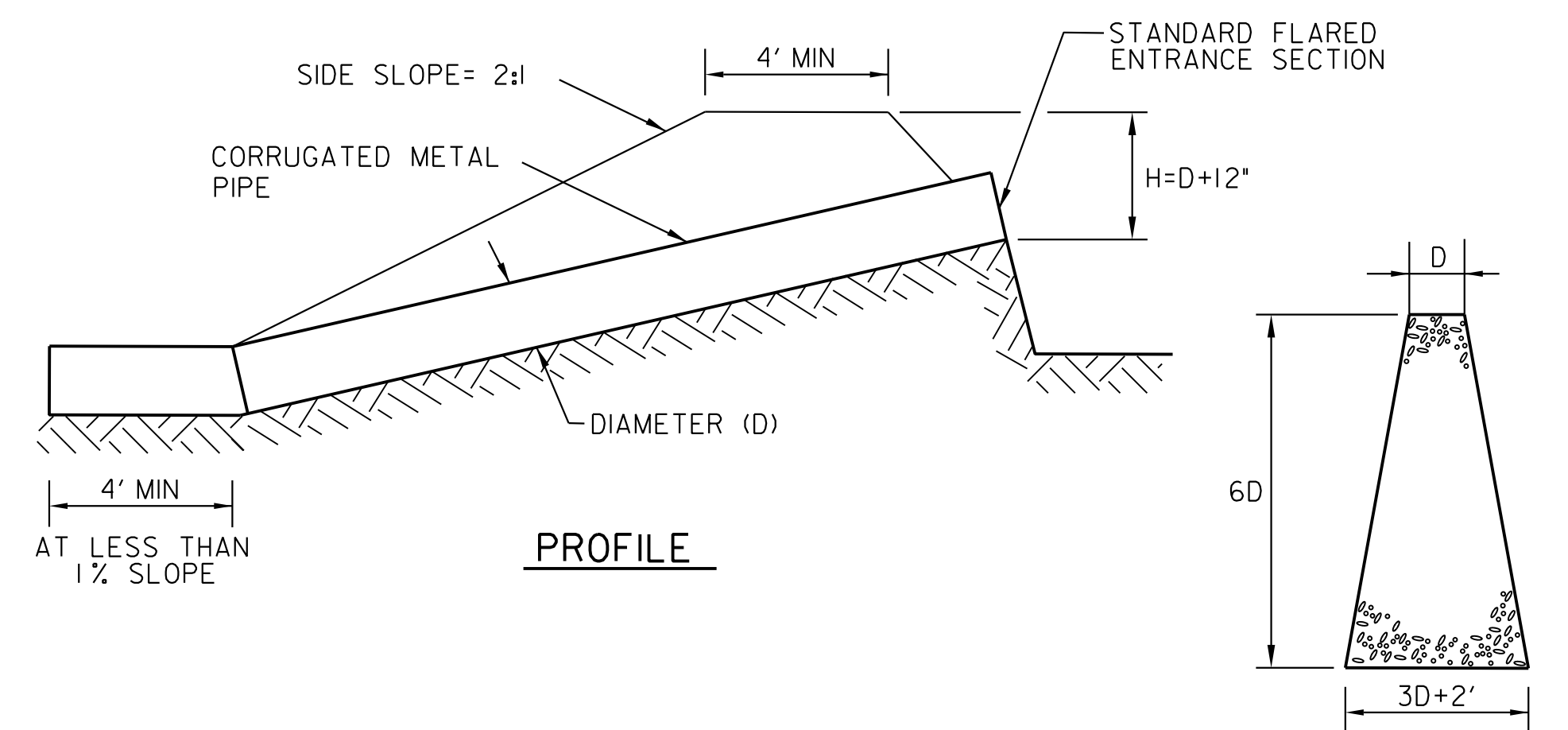
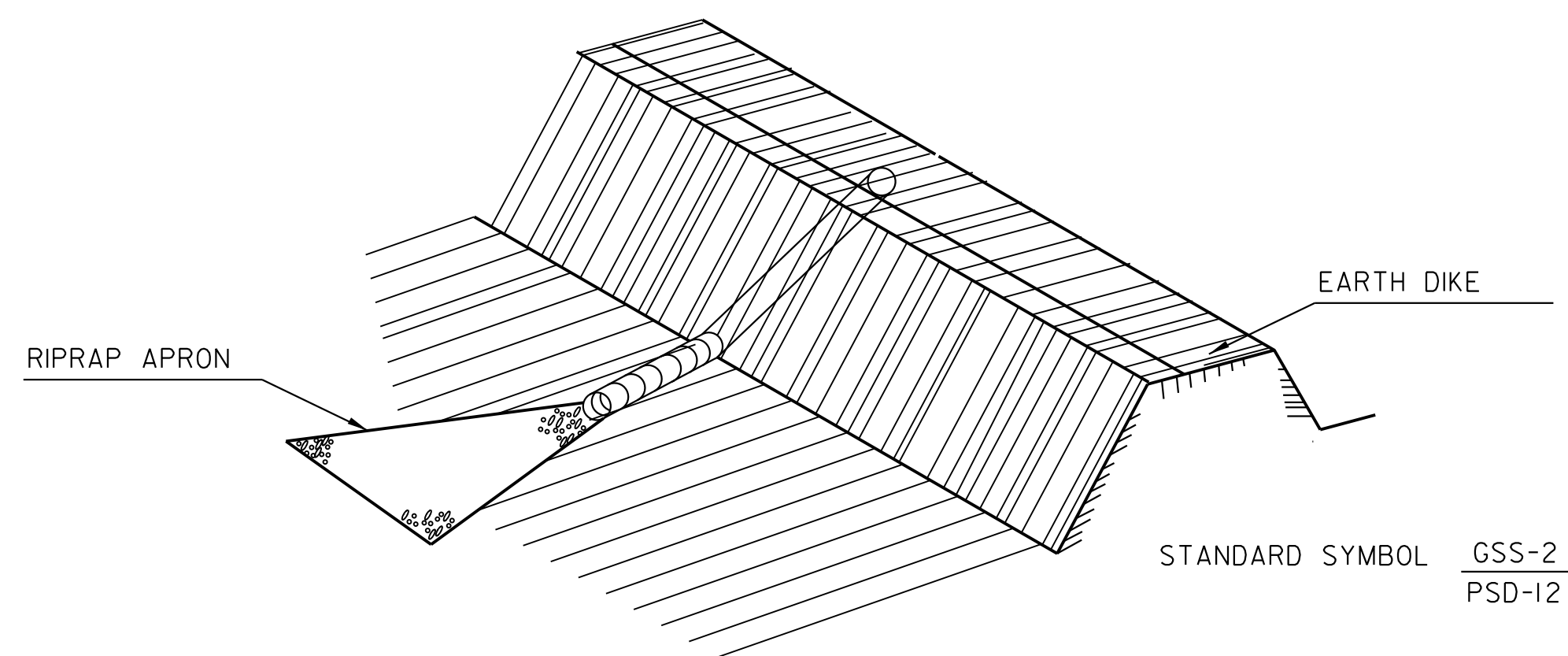
C:\Engineering\Drawings\Eastern Ave\Civil Drawings\ES-0002.ecstern.dgn \$PENTBL\$\$ \$PLTDRV\$\$ \$PLTDRV\$\$ \$PLTDRV\$\$

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. _____ MR DESIGNED BY _____ MR CHECKED BY _____ PH DRAWN BY _____ VM PROJECT MGR. _____ PH
EROSION AND SEDIMENT CONTROL DETAILS AND NOTES SHEET 2 OF 5	DIVISION CHIEF DATE _____ FILE _____ 2

ES 22



RIPRAP SHALL CONSIST OF 6" DIAMETER STONE PLACED AS SHOWN AND SHALL BE A MINIMUM OF 12" IN THICKNESS.

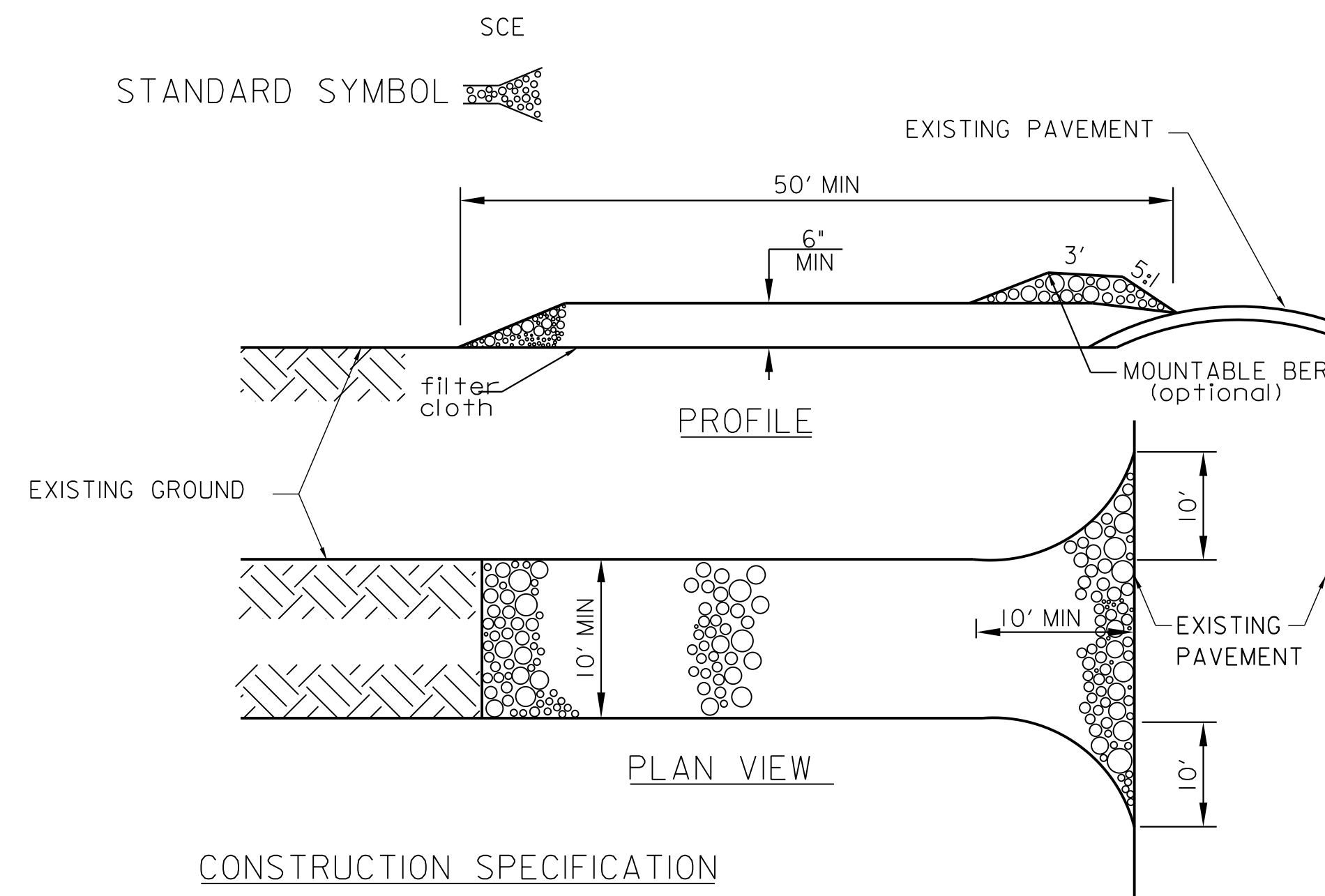
NOTE: SIZE DESIGNATION IS; PSD-PIPE DIAM.
(eg., PSD-12=PIPE SLOPE DRAIN WITH 12" DIAMETER PIPE.)

CONSTRUCTION SPECIFICATIONS

1. THE PIPE SLOPE DRAIN SHALL HAVE A SLOPE OF 3% OR STEEPER.
2. THE TOP OF THE EARTH DIKE OVER THE INLET PIPE AND ALL DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1' HIGHER THAN THE TOP OF THE PIPE.
3. ADD 0.3' TO DIKE HEIGHT FOR SETTLEMENT.
4. SOIL AROUND AND UNDER THE SLOPE PIPE SHALL BE HAND TAMPED IN 4" LIFTS.
5. THE PIPE SHALL BE CORRUGATED METAL PIPE WITH WATERTIGHT 12" CONNECTING BANDS OR FLANGE CONNECTIONS.
6. RIP-RAP TO BE 4"-8" IN A LAYER AT LEAST 8" THICKNESS AND PRESSED INTO THE SOIL.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

MAXIMUM DRAINAGE AREA: 5 ACRES

PIPE SLOPE DRAIN-RIGID, GSS-2



CONSTRUCTION SPECIFICATION

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

ES 23

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

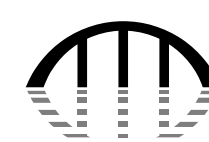
EROSION AND SEDIMENT CONTROL
DETAILS AND NOTES
SHEET 3 OF 5

PROJECT ENG. MR
DESIGNED BY MR
CHECKED BY PH
DRAWN BY VM
PROJECT MGR. PH

DIVISION CHIEF

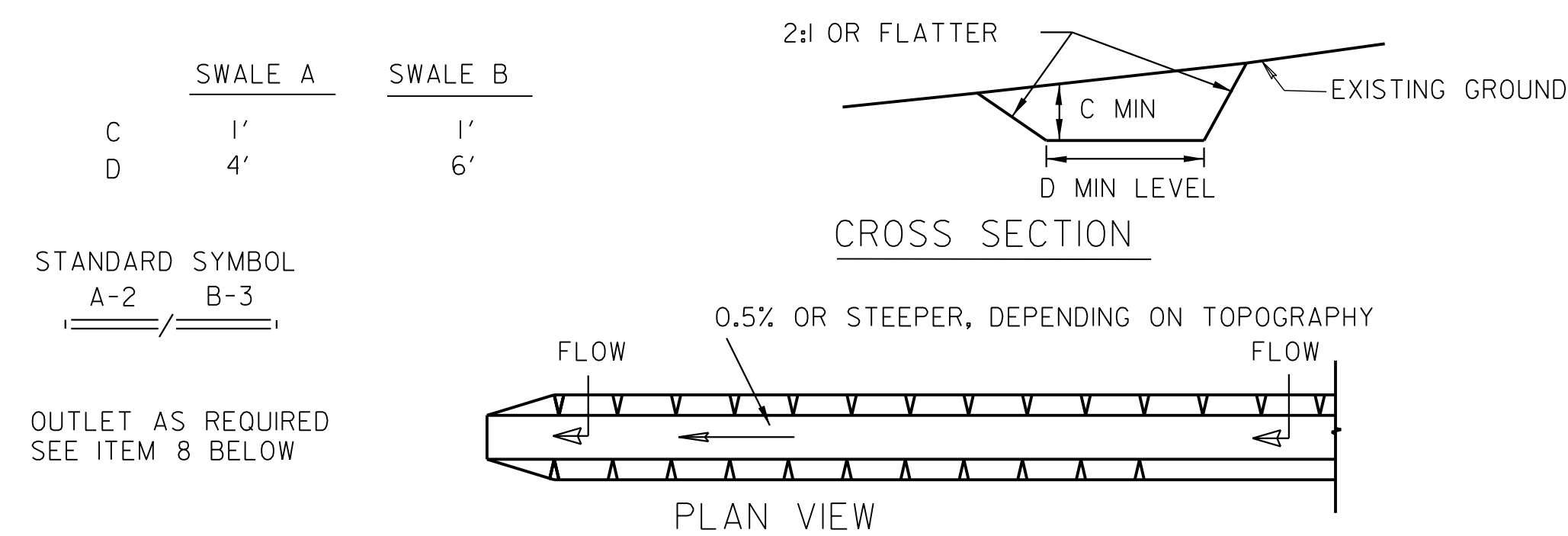
DATE
FILE

3



PDH Associates, Inc.
Consulting Engineers

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



STANDARD SYMBOL
A-2 / B-3

OUTLET AS REQUIRED
SEE ITEM 8 BELOW

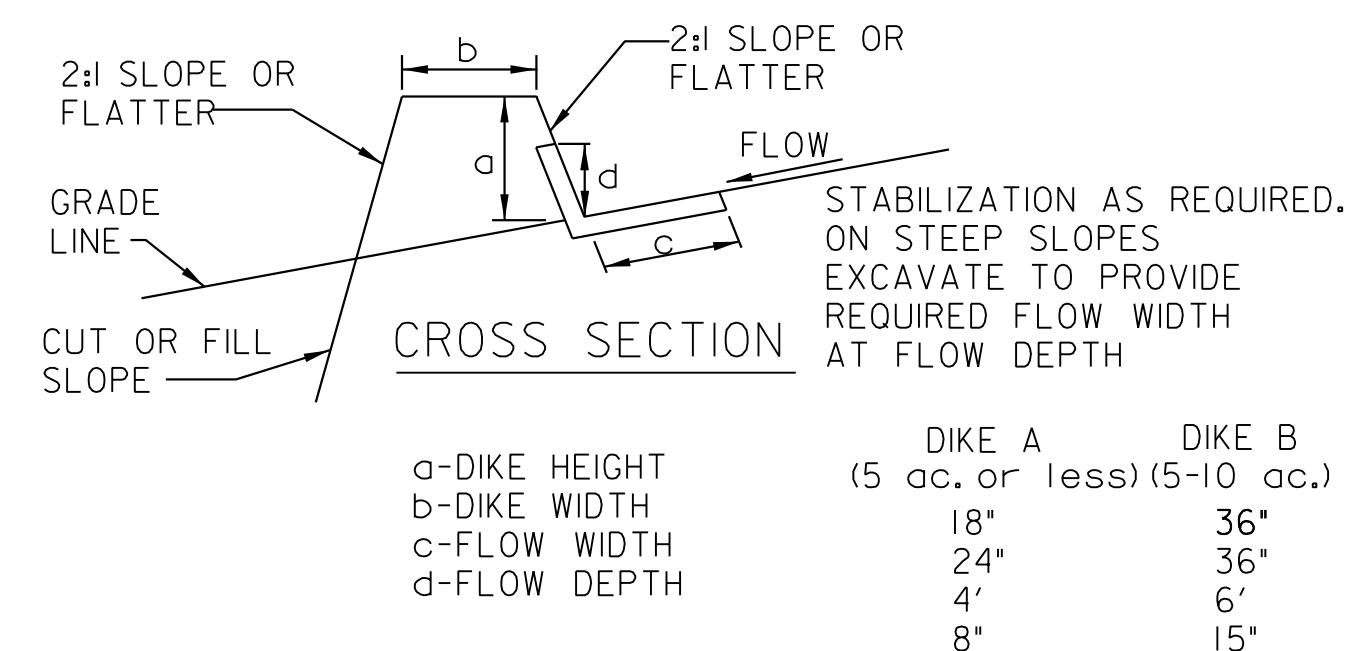
CONSTRUCTION SPECIFICATIONS

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER CHART BELOW :

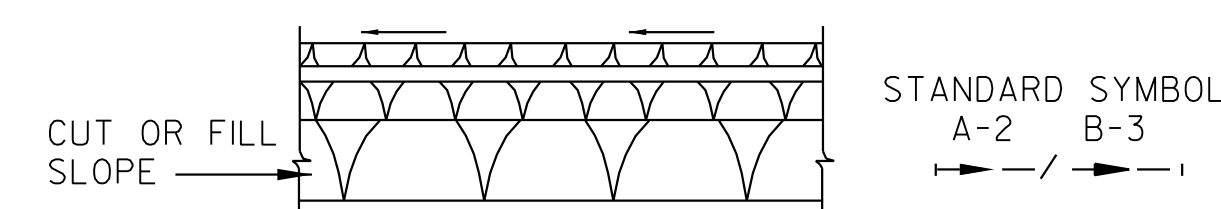
TYPE OF TREATMENT	CHANNEL GRADE	FLOW CHANNEL STABILIZATION	
		A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED WITH JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TEMPORARY SWALE



POSITIVE DRAINAGE-GRADE SUFFICIENT TO DRAIN



CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW :

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4"-8"
4	8.1-20%	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN

- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
- A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- B. RIPRAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
- C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

EARTH DIKE

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT CONTROL
DETAILS AND NOTES
SHEET 4 OF 5

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

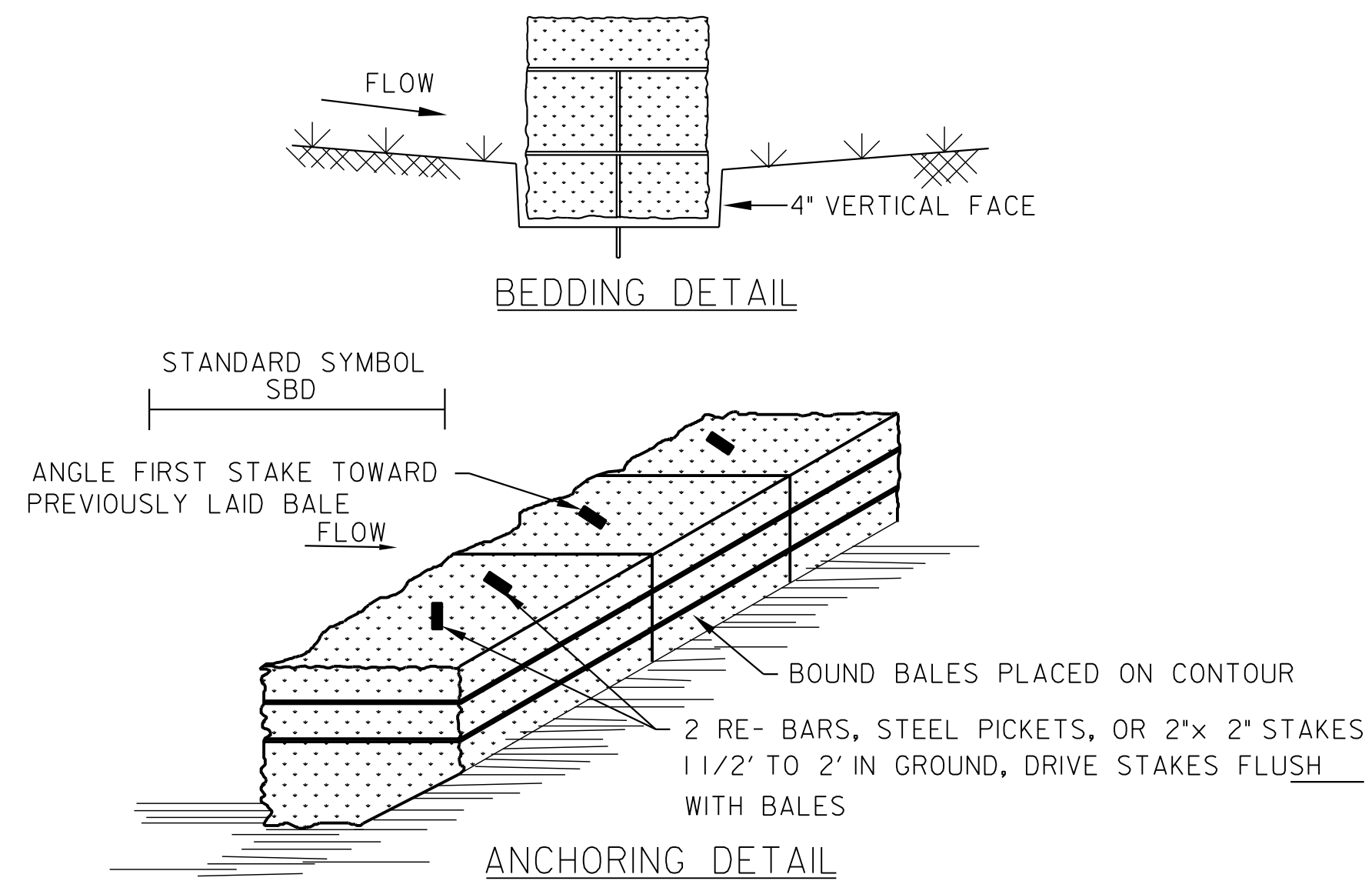
DIVISION CHIEF

DATE _____
FILE _____



NO.	DESCRIPTION	NAME	DATE

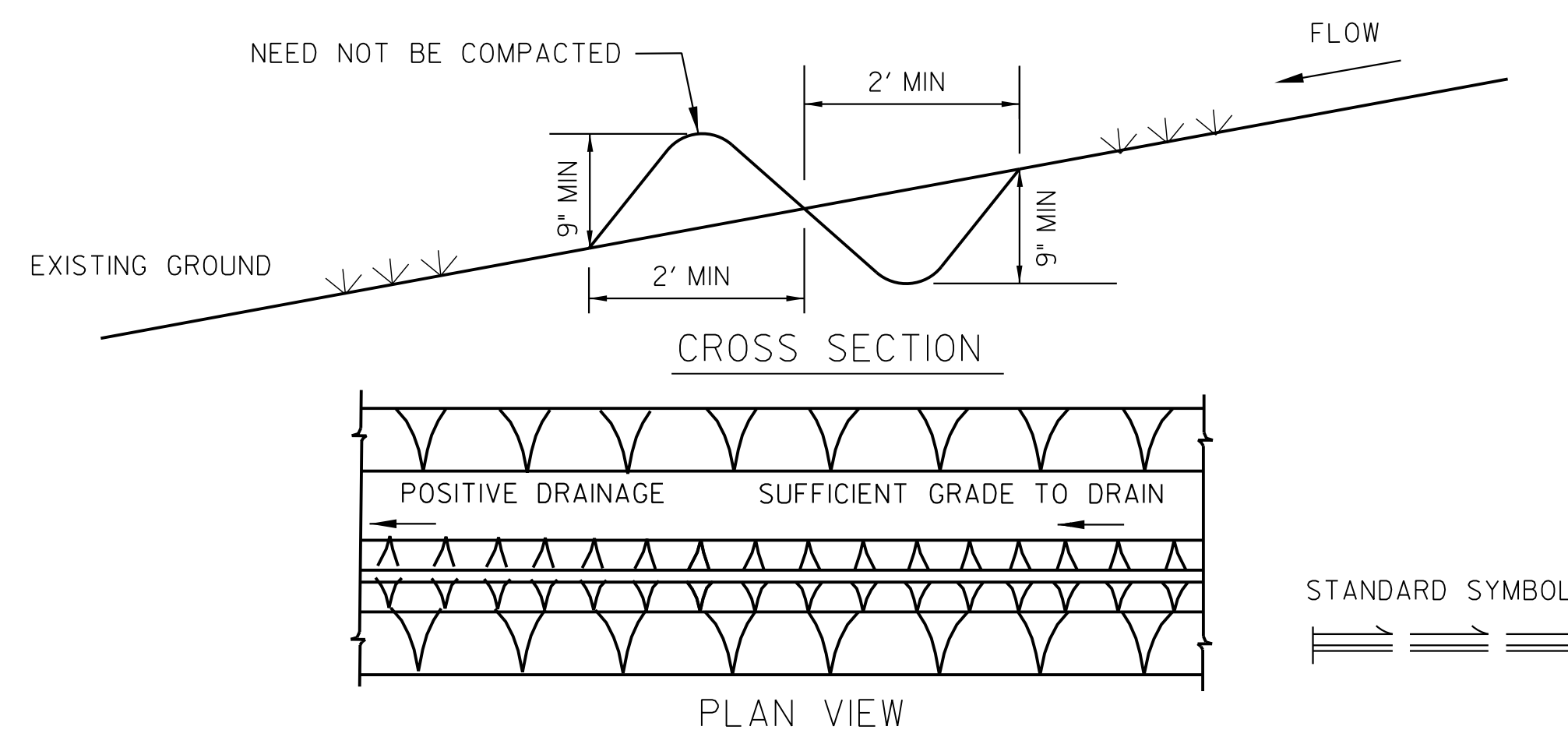
REVISIONS



CONSTRUCTION SPECIFICATION

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACED BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- OR BALES SHALL BE REMOVED WITHIN 10 DAYS OF RAIN EVENT. THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK IMPERMEABLE FLOW OR DRAINAGE.

DETAIL
(STRAW BALE DIKE)
SCALE: NONE



CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

MAX. DRAINAGE AREA LIMIT: 2 ACRES

PERIMETER DIKE/SWALE

ES 25

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

EROSION AND SEDIMENT CONTROL
DETAILS AND NOTES
SHEET 5 OF 5

PROJECT ENG. _____ MR
DESIGNED BY _____ MR
CHECKED BY _____ PH
DRAWN BY _____ VM
PROJECT MGR. _____ PH

DIVISION CHIEF

DATE _____
FILE _____

5

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Within 21 days after completion of construction of the Stormwater discharge facility, please send this page to the Watershed Protection Division of the District Department of the Environment. 1. Stormwater discharge facility information: Source Name: _____ Source Location: _____ Street: _____ City: _____ DCRA Permit No.: _____ Date Issued: _____

2. As Built Certification I hereby certify that Stormwater discharge facility has been built substantially in accordance with the approved plans and specifications, and that any substantial deviations (noted below) will not prevent the system from functioning in compliance with the requirements of Section 526 through 535 of DCMR-21, Chapter 5 when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

Signature of Engineer Name (Please Type) D.C. Reg. No. _____

Affix Seal: Company Name _____

Company Address _____

Date: _____ Phone No. _____

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

AFFIX SEAL:

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

DCWASA was notified that the pre-approved water quality catch basin(s) located at STA. 10+15 LT. & RT. on the Eastern Avenue baseline are part of the storm water management plan being approved by DDOE. By operation of law (D.C. Official Code 34-2202.01(8) and 34-2202.02(c) or any successor law), WASA is required to maintain these catch basins.

Said Cherif
Signature of Applicant

SAID CHERIF, Acting Deputy Chief Engineer
Name and Title (please type)

64 New York Avenue, NE
Address
Washington DC

Date *11/16/2007* Phone No: *202-671-4611*

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

This is to certify that the engineering features of this stormwater discharge facility have been designed /examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of stormwater pollutants. I further certify that the facility has been designed in accordance with the specification required under Section 526 through 535 of DCMR-21, Chapter 5. It is also stated that the undersigned has furnished the applicant with a set of instructions for the maintenance and operation of the stormwater discharge facility.

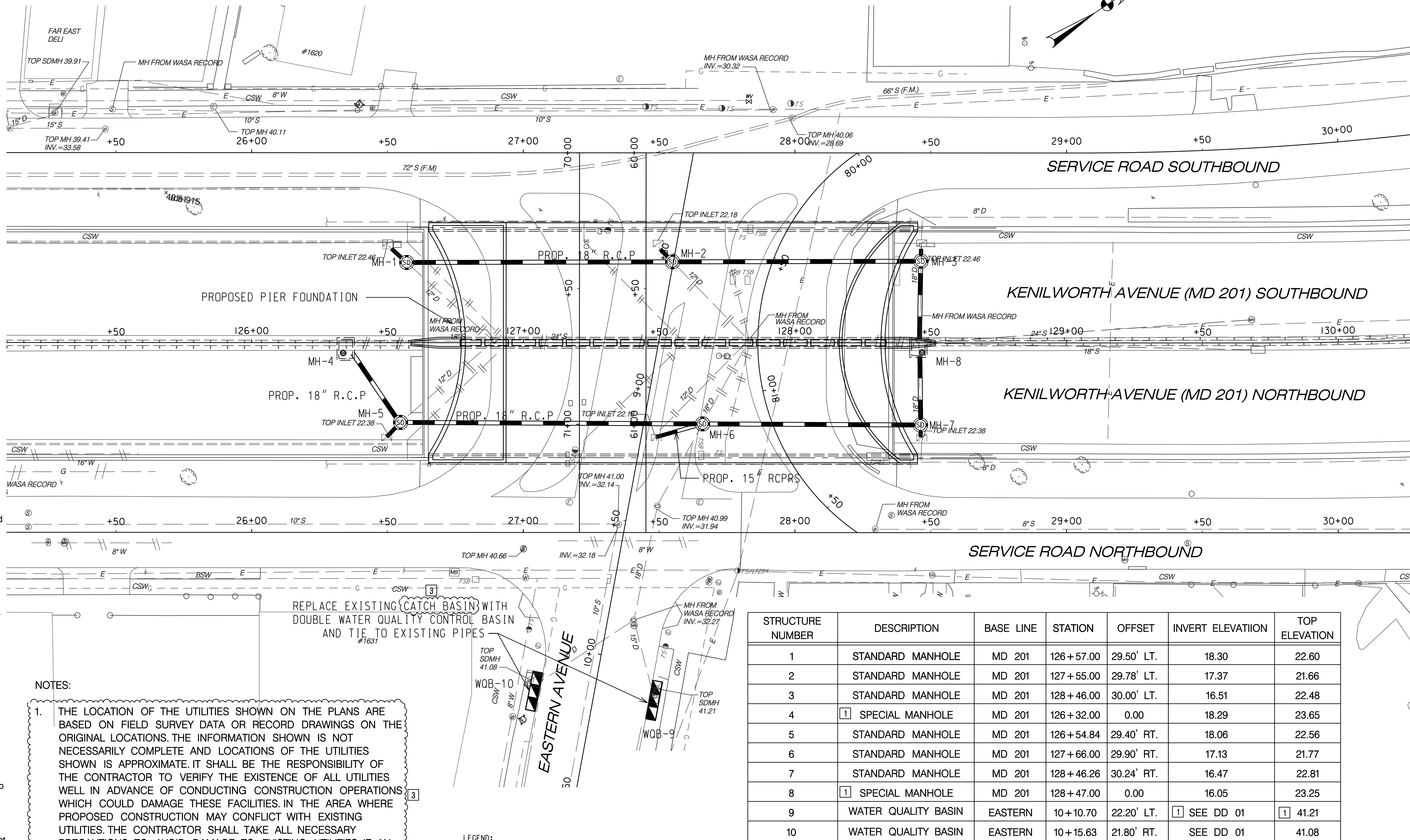
SIMON E. SIMON, P.E., SENIOR VICE PRESIDENT
Name and Title (please type)

GREENHORNE & O'MARA, INC.

Address
6110 FROST PLACE, LAUREL, MD 20707

Date *JUNE 1, 2009* Phone No: *(301) 982-2800*

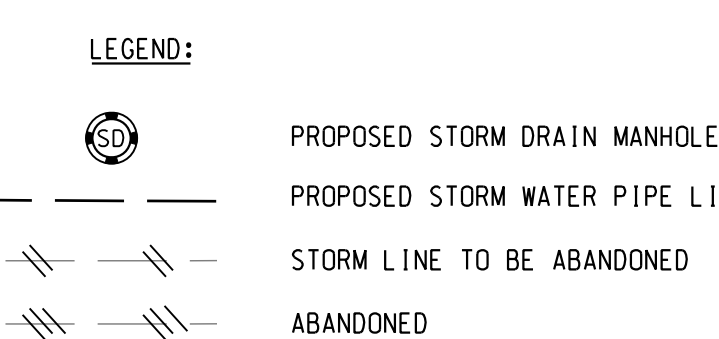
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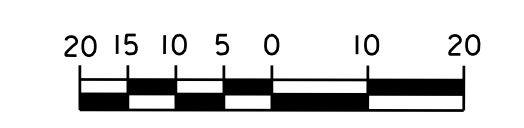
NOTES:

1. THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA OR RECORD DRAWINGS ON THE ORIGINAL LOCATIONS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND LOCATIONS OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREA WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE UTILITY OWNER AT CONTRACTOR EXPENSE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.

2. REPLACE TWO EXISTING INLETS ON EASTERN AVENUE, STA. 10+10.70, LT. AND STA. 10+15.63, RT. WITH STANDARD WATER QUALITY CONTROL BASINS. THESE INLETS ARE TO CONNECT TO EXISTING 18" STORM DRAIN PIPES.



STRUCTURE NUMBER	DESCRIPTION	BASE LINE	STATION	OFFSET	INVERT ELEVATION	TOP ELEVATION
1	STANDARD MANHOLE	MD 201	126+57.00	29.50' LT.	18.30	22.60
2	STANDARD MANHOLE	MD 201	127+55.00	29.78' LT.	17.37	21.66
3	STANDARD MANHOLE	MD 201	128+46.00	30.00' LT.	16.51	22.48
4	[1] SPECIAL MANHOLE	MD 201	126+32.00	0.00	18.29	23.65
5	STANDARD MANHOLE	MD 201	126+54.84	29.40' RT.	18.06	22.56
6	STANDARD MANHOLE	MD 201	127+66.00	29.90' RT.	17.13	21.77
7	STANDARD MANHOLE	MD 201	128+46.26	30.24' RT.	16.47	22.81
8	[1] SPECIAL MANHOLE	MD 201	128+47.00	0.00	16.05	23.25
9	WATER QUALITY BASIN	EASTERN	10+10.70	22.20' LT.	[1] SEE DD 01	[1] 41.21
10	WATER QUALITY BASIN	EASTERN	10+15.63	21.80' RT.	SEE DD 01	41.08



GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
1	MODIFY TABLE DATA	CK	06/15/09
3	SPELLING CORRECTIONS	CK	07/27/09

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

STORMWATER MANAGEMENT PLAN

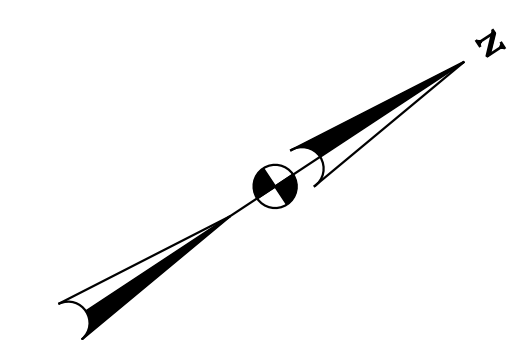
PROJECT ENG. LRH
DESIGNED BY LRH
CHECKED BY SJS
DRAWN BY LMM
PROJECT MGR. LRH

DIVISION CHIEF

DATE _____
FILE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
D.C.		BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	171	242



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	172	242

TREE PROTECTION NOTES:

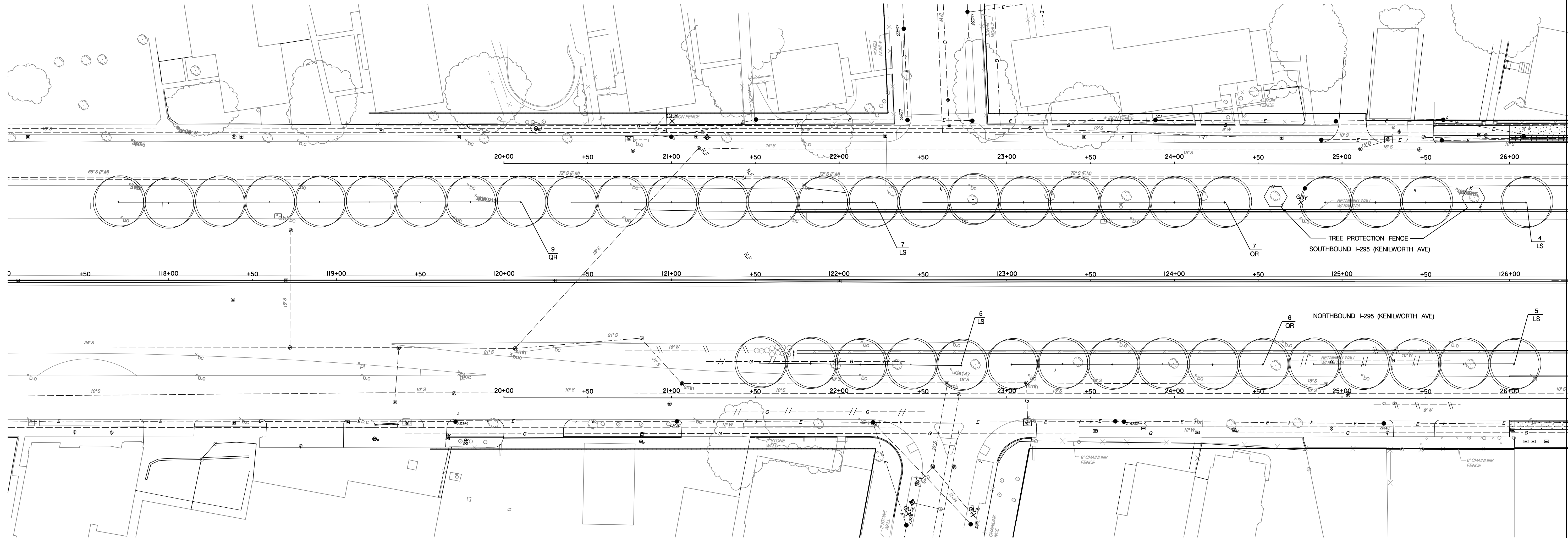
1. INSTALL FOUR (4) FOOT HIGH TREE PROTECTION FENCING TO PROTECT THE CRITICAL ROOT ZONE OF EXISTING PUBLIC SPACE TREES TO REMAIN WITHIN THE LIMITS OF DISTURBANCE. CRITICAL ROOT ZONE EQUALS ONE FOOT OF TREE PROTECTION FOR EVERY INCH IN TREE DIAMETER (E.G. A TREE WITH A 12-INCH DBH OR DIAMETER AT BREAST HEIGHT, WOULD REQUIRE 12 FEET OF TREE PROTECTION ON EVERY SIDE MEASURED FROM THE BASE OF THE TREE).
2. TREE PROTECTION MUST BE CONSTRUCTED OF A REGID MATERIAL: 2" X 4" FRAMING COVERED BY STAPLED ORANGE MESH CONSTRUCTION FENCE IS ACCEPTABLE.
3. IF CONSTRUCTION CANNOT BE AVOIDED WITHIN THE CRITICAL ROOT ZONE THE TREES MUST BE PROTECTED WITH TREE PROTECTION FENCING AND ALL OTHER UNPAVED AREAS MUST BE COVERED WITH A PROTECTIVE 10" LAYER OF WOOD CHIPS.
4. NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE CRITICAL ROOT ZONE: ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY LIQUIDS E.G. CONCRETE, GAS, OIL, PAINT; AND BLACKTOP, AND TRENCHING.
5. TREES WITHIN THE CRITICAL ROOT ZONE MUST BE WATERED EVERY 10 DAYS FROM APRIL THROUGH SEPTEMBER.
6. SECTION 611.07 TREE PROTECTION AND REPLACEMENT OF THE DDOT STANDARD SPECIFICATION 2005 (REVISED 2007) SHALL APPLY SHOULD ANY DAMAGE OCCUR TO THE EXISTING PUBLIC SPACE TREES.
7. SHOULD THERE BE ANY QUESTIONS REGARDING TREE PROTECTION THE CONTRACTOR SHALL CONTACT DDOT URBAN FORESTRY ADMINISTRATION AT 202-671-8133.

LANDSCAPING GENERAL NOTES

1. ALL PLANT MATERIAL SHALL MEET THE REQUIREMENTS SET FORTH IN THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 1280 I STREET, N.W., SUITE 500, WASHINGTON, D.C., LATEST EDITION.
2. ALL PLANT MATERIAL SHALL MEET THE DESCRIPTIONS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN. BOTANICAL NAMES SHALL PREVAIL OVER COMMON NAMES.
3. NO PLANT SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE D.D.O.T. PROJECT LANDSCAPE ARCHITECT AND CONSTRUCTION PROJECT ENGINEER.
4. ALL PLANT MATERIAL SHALL BE ADEQUATELY PROTECTED FROM SUN, DRYING WINDS, AND/OR FROST.
5. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN IF NECESSARY.

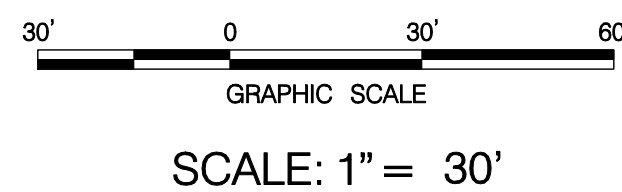
PLANT LIST (THIS SHEET ONLY)

SYM	Botanical Name	Common Name	Qty	Size	Spacing	Remarks
LS	Shade Trees					
	Liquidambar styraciflua 'Cherokee'	Cherokee Sweetgum	21	3" Caliper	30' OC	Seedless
QR	Quercus rubrum	Red Oak	22	3" Caliper	30' OC	



MATCHLINE - SEE LD - 2 OF 3

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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

LD-1

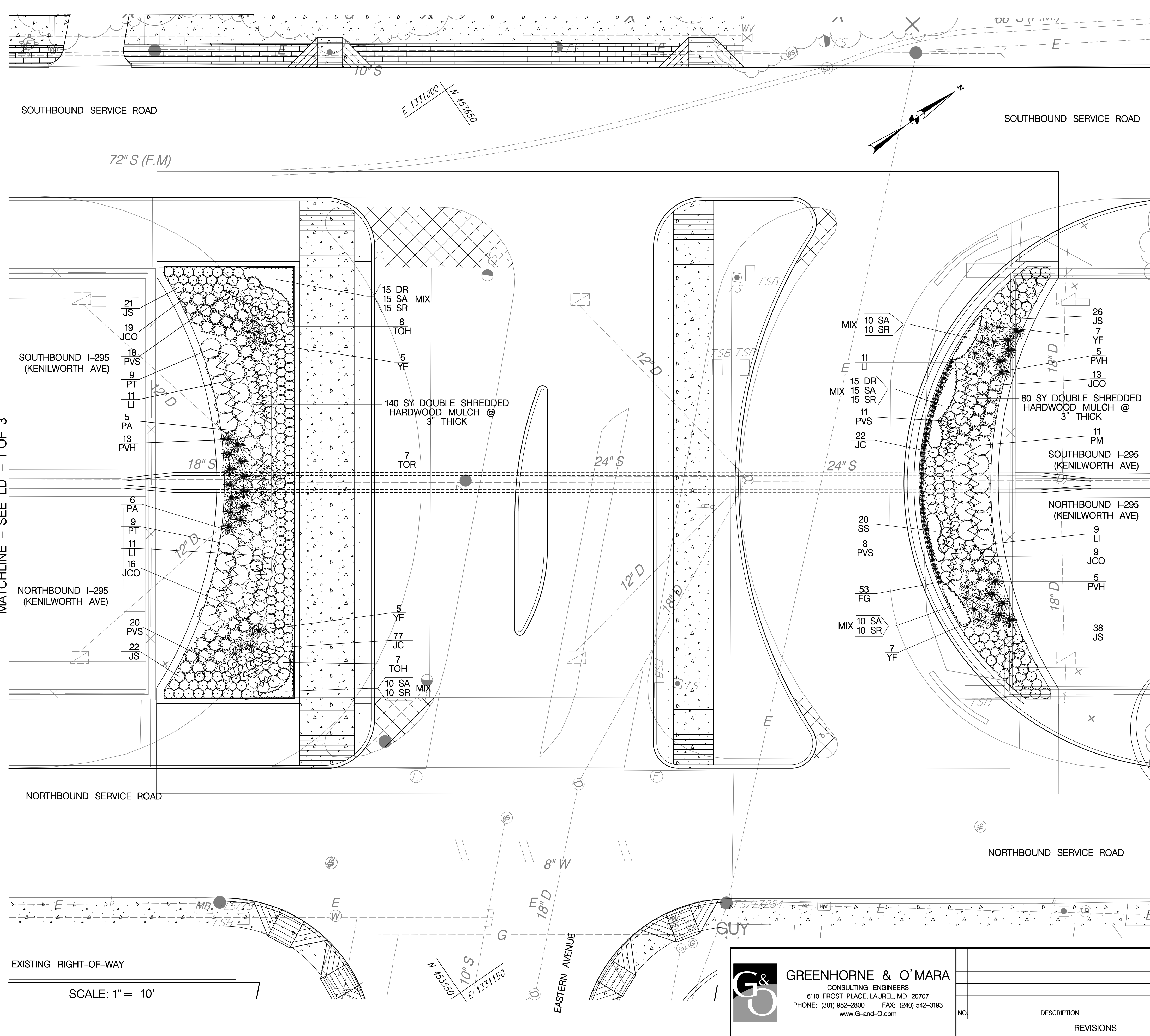
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LANDSCAPE PLAN

PROJECT ENG. <u>MC</u>	DESIGNED BY <u>KRD</u>
CHECKED BY <u>KRD</u>	DRAWN BY <u>KRD</u>
PROJECT MGR. <u>MC</u>	
DIVISION CHIEF	
DATE <u>03/31/2009</u>	
FILE _____	

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
D.C.		BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	173	242



PLANT LIST (THIS SHEET ONLY)

SYM	Botanical Name	Common Name	Qty	Size	Spacing	Remarks
JCO	Juniperus chinensis 'Old Gold'	Old Gold Juniper	57	24" Height	3' O.C.	2'3" x 5'
JC	Juniperus conferta 'Silver Mist'	Silver Mist Carpet Juniper	99	24" Spread	24" O.C.	1' x 3'
JS	Juniperus squamata 'Blue Star'	Blue Star Carpet Juniper	107	24" Spread	24" O.C.	2' x 3'
PA	Picea abies 'Nidiformis'	Bird's Nest Spruce	11	24" Height	As Shown	2' x 4'
PM	Pinus mugo var. pumilio	Dwarf Swiss Mt. Pine	11	3' Height	As Shown	4' x 7'
PT	Pinus thumbergii 'Thunderhead'	Thunderhead Pine	18	36" Height	As Shown	4' x 8'
TOH	Thuja occidentalis 'Hetzi Midget'	Hetzi Midget Arborvitae	15	18" Height	24" O.C.	2' x 2'
TOR	Thuja occidentalis 'Rheingold'	Rheingold Arborvitae	7	30" Height	3' O.C.	4' x 4'
Deciduous Shrubs						
LI	Lagerstroemia indica 'Pocomoke'	Pocomoke Crape Myrtle	42	12" Height	24" O.C.	3' x 3'
YF	Yucca filamentosa 'Bright Edge'	Bright Edge Yucca	24	24" Height	24" O.C.	green
Grasses						
FG	Festuca glauca	Blue Fescue	53	1 Gallon	12" O.C.	1'
PVH	Panicum virgatum Heavy Metal	Heavy Metal Switch Grass	33	1 Gallon	30" O.C.	4' stiff blue
PVS	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	57	1 Gallon	24" O.C.	2' - 3'
Groundcovers and Perennials						
DR	Delosperma nubigenum	Yellow Ice Plant	30	1 Gallon	12" O.C.	Groundcover
SA	Sedum album	White Stonecrop	60	1 Gallon	12" O.C.	
SR	Sedum reflexum	Prickmadam	60	1 Gallon	12" O.C.	
SS	Sedum spectabile	Brilliant Stonecrop	20	1 Gallon	12" O.C.	
Mulch						
SHM	Double Shredded Hardwood Mulch 3" Thick		220	Square Yards		

MATCHLINE - SEE LD - 3 OF 3

- LANDSCAPING GENERAL NOTES
- ALL PLANT MATERIAL SHALL MEET THE REQUIREMENTS SET FORTH IN THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D.C., LATEST EDITION.
 - ALL PLANT MATERIAL SHALL MEET THE DESCRIPTIONS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN. BOTANICAL NAMES SHALL PREVAIL OVER COMMON NAMES.
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 - TRENCHING WITHIN THE CRITICAL ROOT ZONE OF EXISTING PUBLIC SPACE TREES IS PROHIBITED. BORING UNDERNEATH A PUBLIC SPACE TREE IS ACCEPTABLE PROVIDED THERE IS PROPER SUPERVISION. THE CONTRACTOR SHALL CONTACT UFA TEAM 4 ARBORISTS AT 202-671-5133 REGARDING ANY TREE ROOT ISSUES TO DETERMINE THE BEST METHOD FOR DEALING WITH UNDERGROUND UTILITIES.
 - TREE AND ROOT PRUNING ACTIVITIES SHALL ONLY BE PERFORMED WITH DDOT URBAN FORESTRY ADMINISTRATION CONSENT AND SUPERVISION.

LEGEND

	CONCRETE SIDEWALK
	BRICK SIDEWALK



SCALE: 1" = 10'

LD-2

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LANDSCAPE PLAN

PROJECT ENG. MC
DESIGNED BY KRD
CHECKED BY KRD
DRAWN BY KRD
PROJECT MGR. MC

DIVISION CHIEF

DATE 03/31/2009
FILE

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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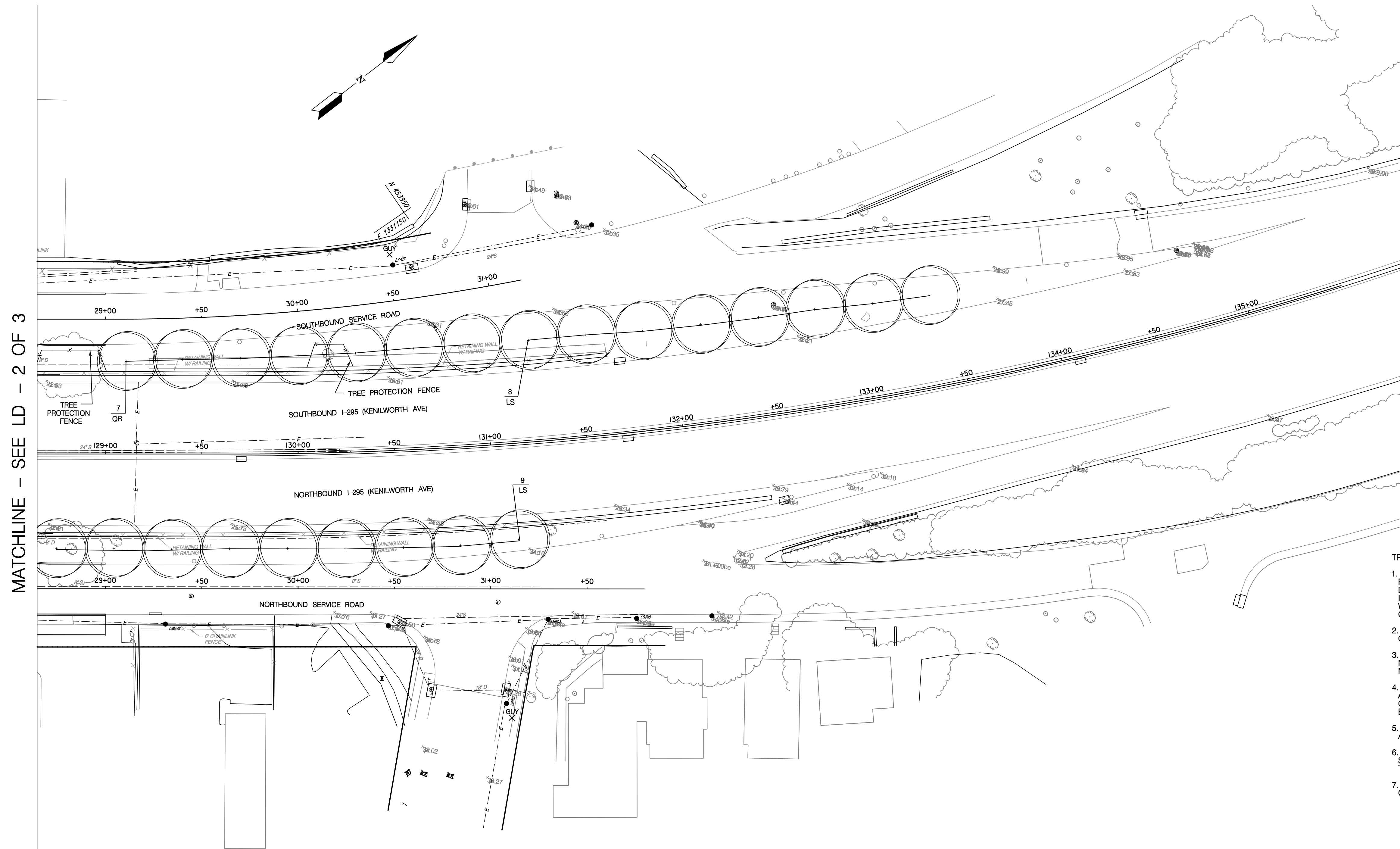
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
.	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	174	242

PLANT LIST (THIS SHEET ONLY)

SYM	Botanical Name	Common Name	Qty	Size	Spacing	Remarks
LS	Shade Trees					
	Liquidambar styraciflua 'Cherokee'	Cherokee Sweetgum	17	3" Caliper	30' OC	Seedless
QR	Quercus rubrum	Red Oak	7	3" Caliper	30' OC	



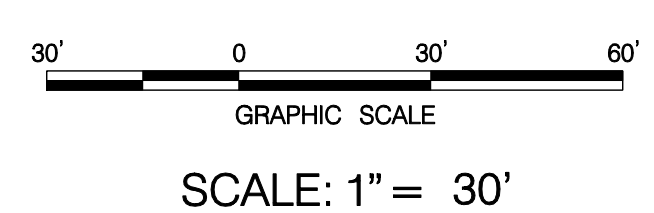
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7. TREE AND ROOT PRUNING ACTIVITIES SHALL ONLY BE PERFORMED WITH DDOT URBAN FORESTRY ADMINISTRATION CONSENT AND SUPERVISION.

TREE PROTECTION NOTES:

1. INSTALL FOUR (4) FOOT HIGH TREE PROTECTION FENCING TO PROTECT THE CRITICAL ROOT ZONE OF EXISTING PUBLIC SPACE TREES TO REMAIN WITHIN THE LIMITS OF DISTURBANCE. CRITICAL ROOT ZONE EQUALS ONE FOOT OF TREE PROTECTION FOR EVERY INCH IN TREE DIAMETER (E.G. A TREE WITH A 12-INCH DBH OR DIAMETER AT BREAST HEIGHT, WOULD REQUIRE 12 FEET OF TREE PROTECTION ON EVERY SIDE MEASURED FROM THE BASE OF THE TREE.)
2. TREE PROTECTION MUST BE CONSTRUCTED OF A REGID MATERIAL: 2" X 4" FRAMING COVERED BY STAPLED ORANGE MESH CONSTRUCTION FENCE IS ACCEPTABLE.
3. IF CONSTRUCTION CANNOT BE AVOIDED WITHIN THE CRITICAL ROOT ZONE THE TREE MUST BE PROTECTED WITH TREE PROTECTION FENCING AND ALL OTHER UNPAVED AREAS MUST BE COVERED WITH A PROTECTIVE 10" LAYER OF WOOD CHIPS.
4. NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE CRITICAL ROOT ZONE: ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY LIQUIDS (E.G. CONCRETE, GAS, OIL, PAINT); AND TRENCHING.
5. TREES WITHIN THE CRITICAL ROOT ZONE MUST BE WATERED EVERY 10 DAYS FROM APRIL THROUGH SEPTEMBER.
6. SECTION 611.07 TREE PROTECTION AND REPLACEMENT OF THE DDOT STANDARD SPECIFICATION 2005 (REVISED 2007) SHALL APPLY SHOULD ANY DAMAGE OCCUR TO THE EXISTING PUBLIC SPACE TREES.
7. SHOULD THERE BE ANY QUESTIONS REGARDING TREE PROTECTION THE CONTRACTOR SHALL CONTACT DDOT URBAN FORESTRY ADMINISTRATION AT 202-671-5133.

MATCHLINE - SEE LD - 2 OF 3



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

LD-3

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LANDSCAPE PLAN

PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____	DIVISION CHIEF
DATE: 03 / 31 / 2009	FILE: _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	175	242

GENERAL NOTES:

1. THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD OBSERVATION AND/OR RECORD DRAWINGS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE LOCATION OF THE UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR WILL VERIFY THE EXISTENCE OF ALL UTILITIES IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS THAT COULD DAMAGE THESE UTILITIES.

2. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRATOR WILL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THESE UTILITIES.

3. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DISTRICT AND THE OWNER OF THE UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND WILL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.

4. THE CONTRACTOR WILL NOTIFY THE FOLLOWING PARTIES AT LEAST FORTY EIGHT (48) HOURS, BUT NOT MORE THAN TEN (10) WORKING DAYS IN ADVANCE OF PROCEEDING WITH ANY EXCAVATION WORK:

TYPE OF WORK	NOTIFY AGENCIES
GAS, TELEPHONE, ELECTRICAL, CONDUIT & CABLE TV	MISS UTILITY (800-257-7777)
WATERMAIN & SEWERS	WASA (202-673-6600)

5. ALL STREET LIGHT FOUNDATIONS SHOWN ON THE PLANS WILL BE REPLACED OR REMOVED. ALL EXISTING STREET LIGHT CONDUITS TO BE ABANDONED WILL BE SEALED WITH CONCRETE BEFORE INSTALLING THE NEW FOUNDATION OR BACKFILLING. REMOVE THE FOUNDATION COMPLETELY, SUCH AS ANCHOR BOLTS, CONDUITS, CABLE AND ALL OTHER ASSOCIATED DEVICES.

6. THE CONTRACTOR WILL INSTALL THE NEW CONDUIT AND MANHOLE SYSTEM ALONG WITH THE MAINLINE FEEDER CABLES ENERGIZED BEFORE STARTING TO REMOVE AND INSTALL THE STREET LIGHTS.

7. WHERE A STREET LIGHT IS REPLACED IN THE SAME LOCATION THE LIGHT WILL BE RESTORED WITHIN 5 WORKING DAYS. ALL LIGHTS WITHIN THE VICINITY OF THE PROJECT LIMIT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR IN TIMELY MANNER (WITHIN FORTY-EIGHT HOURS).

8. THE CONTRACTOR WILL KEEP PROPER RECORD OF ALL TRAFFIC AND PARKING SIGNS THAT WILL BE REMOVED PRIOR TO REMOVING THE STREET LIGHT POLE. THE SIGNS SHALL BE RELOCATED TO THE NEW POLE AT THE SAME HEIGHT AND ORIENTATION. A U-POLE SHALL BE INSTALLED TO MOUNT THE REPLACED SIGN IF A PROPOSED NEW POLE HAS A DIFFERENT LOCATION.

9. ALL POLE FOUNDATIONS WILL BE INSTALLED 3' FROM FACE OF CURB TO CENTER OF FOUNDATION UNLESS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD CHECK FOR ALL EXISTING LOCATIONS AND MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE NEW WORK FOR NO ADDITIONAL COST TO THE DISTRICT OF COLUMBIA GOVERNMENT.

LEGEND:

	EXISTING TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
	PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
	EXISTING 20 FOOT TRAFFIC SIGNAL POLE
	EXISTING PENDANT POST POLE
	EXISTING AD-11 TRAFFIC SIGNAL POLE
	EXISTING PEPCO WOOD POLE
	TO BE REMOVED
	PROPOSED 20 FEET TRAFFIC SIGNAL POLE
	PROPOSED PENDANT POST POLE
	LUMINAIRE AND SUPPORTING ARM
	PROPOSED LOCATION FOR PEPCO POWER CONNECTION
	EXISTING CATCH BASINS
	EXISTING TREE
	EXISTING WHEELCHAIR RAMP
	PROPOSED WHEELCHAIR RAMP
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN MANHOLE
	EXISTING SEWER MANHOLE
	EXISTING WATER MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING PEPCO ELECTRICAL MANHOLE
	EXISTING GAS VALVE
	EXISTING WATER METER
	PROPOSED DDOT ELECTRICAL MANHOLE (4'X4'X4')
	PROPOSED DDOT ELECTRICAL MANHOLE (3'X3'X3')
	EXISTING DDOT ELECTRICAL MANHOLE (4'X4'X4')
	EXISTING ELECTRICAL LINE (FROM SURVEY)
	EXISTING ELECTRICAL LINE (FROM RECORD)
	EXISTING ELECTRICAL LINE TO BE ABANDONED
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	PROPOSED 1-2" & 1-4" ELECTRICAL PVC CONDUIT
	PROPOSED 4-4" ELECTRICAL PVC CONDUIT
	PROPOSED 1-2" ELECTRICAL PVC CONDUIT
	PROPOSED 2-4" ELECTRICAL PVC CONDUIT
	PROPOSED 1-4" ELECTRICAL PVC CONDUIT
	PROPOSED 6-4" ELECTRICAL PVC CONDUIT
	EXISTING DDOT CONDUIT
	RIGHT OF WAY LINE
	PROPOSED WALL MOUNTED LUMINAIRE
	3/4" GALZ RIGID METAL CONCUIT

ABBREVIATION LIST:

H.P.S.	HIGH PRESSURE SODIUM VAPOR
P#	PEPCO FEED POINT
Lxx -PP	INSTALL NEW STREETLIGHT AND PENDANT POLE
Rxx -PP	REMOVE EXISTING STREETLIGHT AND PENDANT POLE
Lxx -WP	INSTALL NEW STREETLIGHT ON WOOD POLE
Rxx -WP	REMOVE EXISTING STREETLIGHT ON WOOD POLE

ADDITIONAL STREETLIGHT REPLACEMENT PER DDOT

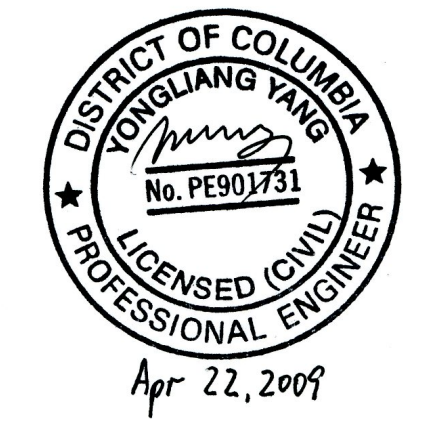
UNDER DIRECTION FROM DDOT, PSI HAS INCLUDED THE FOLLOWING TWO NOTES FOR STREETLIGHT REPLACEMENT ALONG KENILWORTH AVENUE SERVICE ROAD N.E.. DDOT HAS DIRECTED PSI THAT NO DESIGN OR ANALYSIS IS REQUIRED WITHIN THE POLE LIMITS LISTED BELOW. AS SUCH, PSI ACCEPTS NO LIABILITY FOR STREETLIGHT REPLACEMENT THAT OCCURS AS THE RESULT OF THESE NOTES.

- ALL STREETLIGHT ARMS AND FIXTURES ON WOOD POLES ALONG KENILWORTH AVENUE SERVICE ROAD N.E. FROM PEPCO WOOD POLE NO. 6797 TO POLE NO. 3020 (18 LIGHTS), SHALL BE REPLACED WITH APPROVED DECORATIVE ARMS FOR WOOD POLE AND TEARDROP LUMINARIES.
- THE SPECIFICATIONS OF THE DECORATIVE ARMS AND TEARDROP FIXTURES SHALL FOLLOW THE EASTERN AVENUE PROJECT SPECIAL PROVISIONS AND ALL APPLICABLE CODES.

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LT- 01

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. _____ KJZ DESIGNED BY _____ DLS CHECKED BY _____ DLS DRAWN BY _____ KJZ PROJECT MGR. _____ KJZ
LEGEND AND GENERAL NOTES (PART 1)	DIVISION CHIEF DATE _____ FILE _____

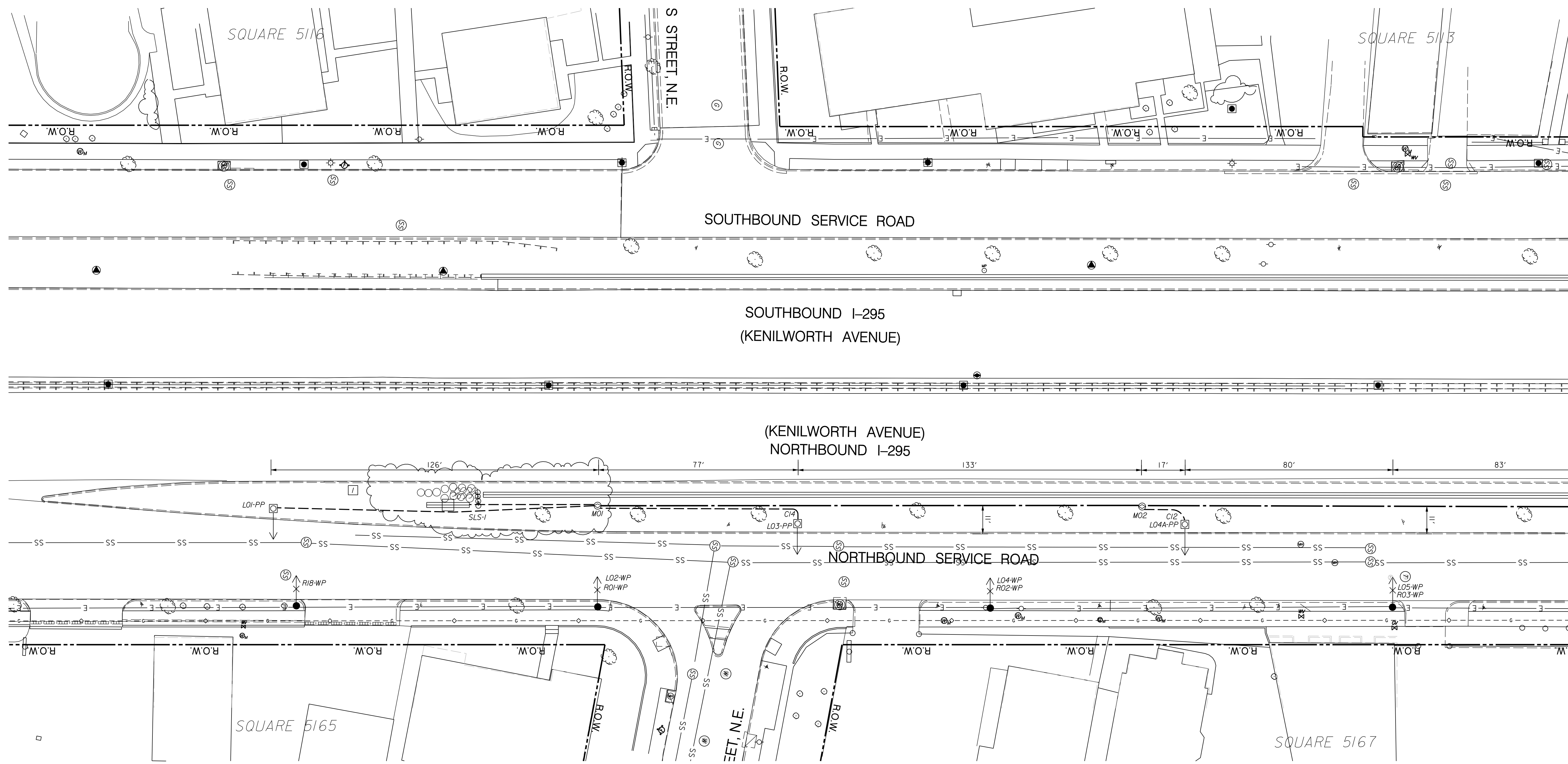


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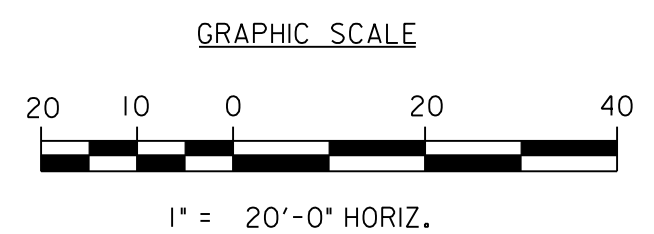
NO	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	176	242



MATCH LINE A-A
SEE SHEET "LT-03"

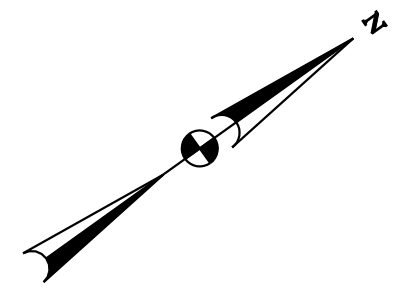
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NO	DESCRIPTION	NAME	DATE
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REVISIONS			



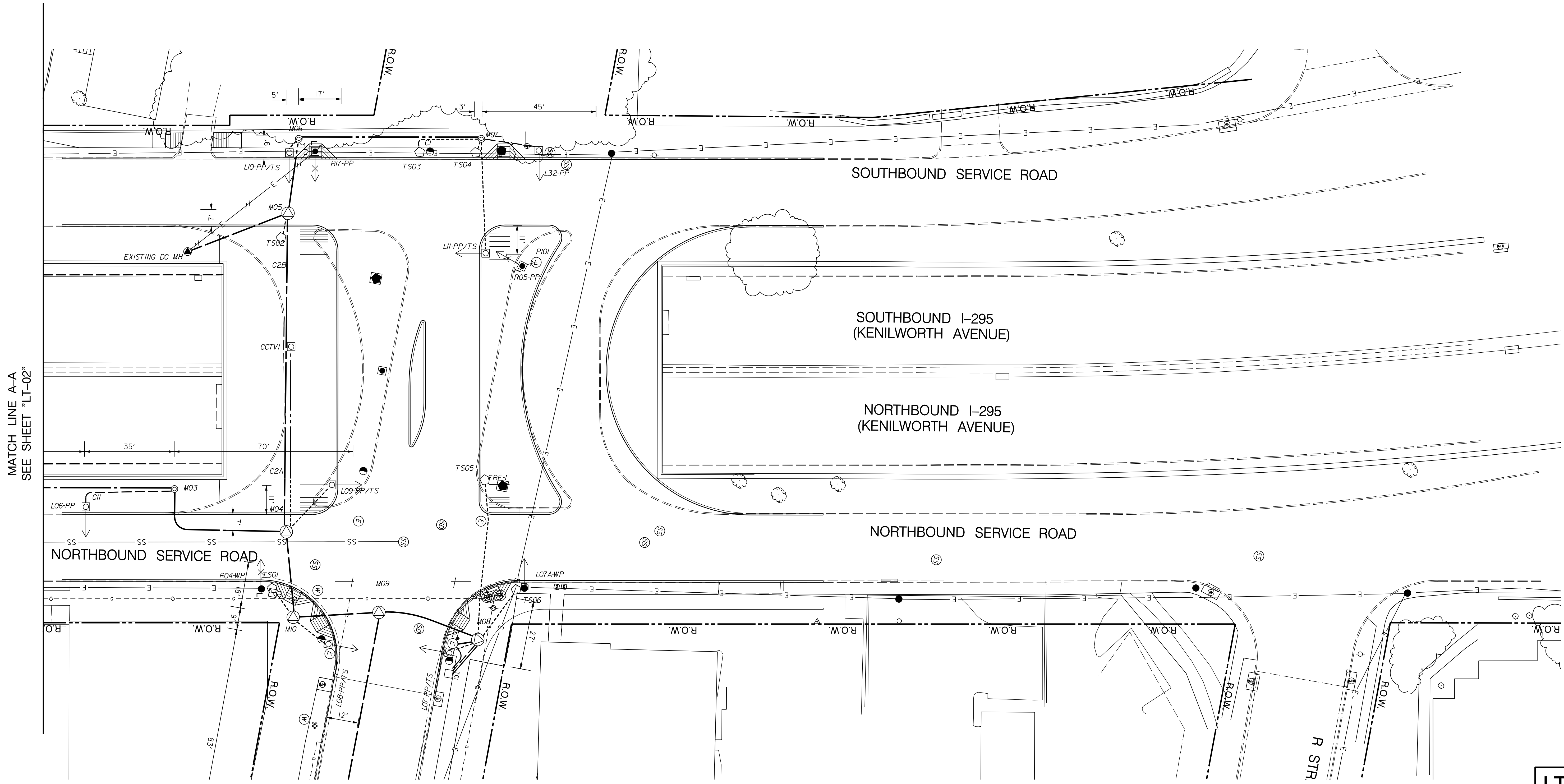
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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN I (PART 1)

PROJECT ENG. _____	KJZ
DESIGNED BY _____	DLS
CHECKED BY _____	DLS
DRAWN BY _____	KJZ
PROJECT MGR. _____	KJZ
DIVISION CHIEF	
DATE _____	
FILE _____	



MATCH LINE A-A
SEE SHEET "LT-02"

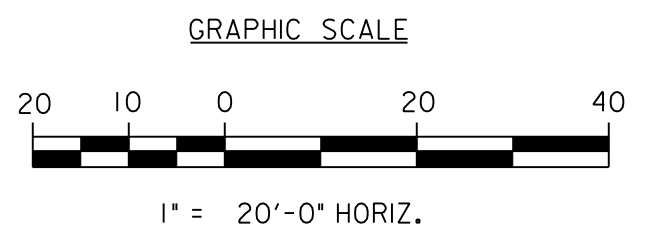
LT-03

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN II (PART I)

PROJECT ENG.	KXZ
DESIGNED BY	DLB
CHECKED BY	DSL
DRAWN BY	KXZ
PROJECT MGR.	KXZ
DIVISION CHIEF	
DATE	_____
FILE	_____

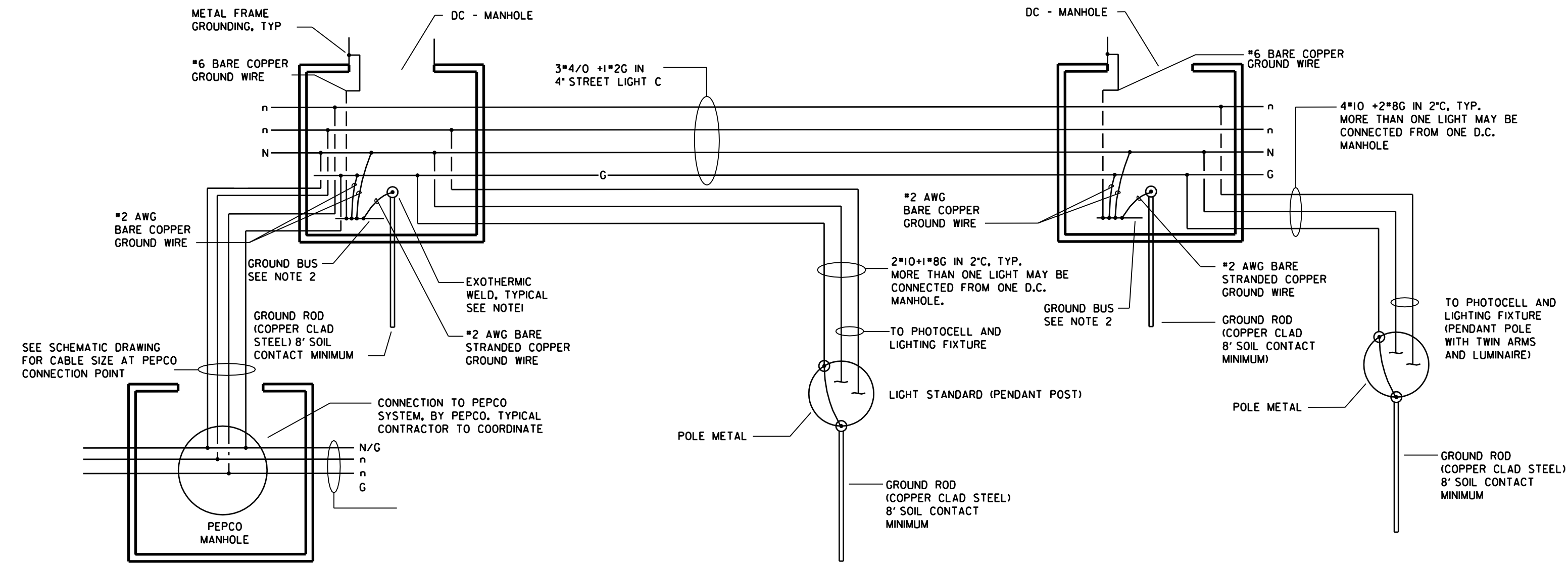


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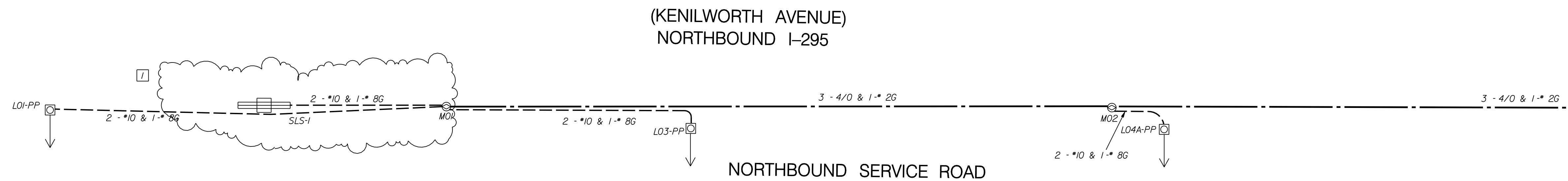
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TYPICAL WIRING DIAGRAM
NOT TO SCALE

GENERAL NOTES:

1. PROVIDE TWO COATS OF ELECTRICAL WATERPROOF COATING OVER WELD AND BARE METALS IN THE SURROUNDING AREAS. REQUIREMENT IS TYPICAL FOR ALL EXOTHERMIC WELD FOR GROUND CONNECTION.
2. PROVIDE A 2'X1/4'X8" (HXWXL) COPPER GROUND BUS NEAR THE GROUND ROD. INSTALL THE BUS ON MANHOLE WALL WITH ANCHORS AND TWO 1/4" BOLTS, 2 INCHES FROM MANHOLE WALL SURFACE.



MATCH LINE A-A
SEE SHEET "LT-05"

LT-04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

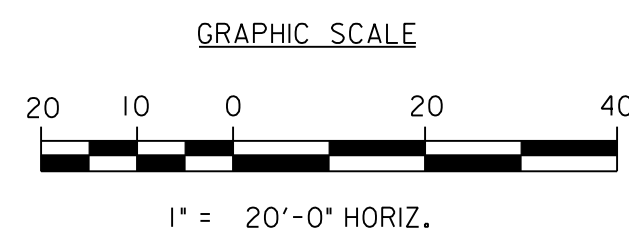
LIGHTING SCHEMATIC I (PART I)

PROJECT ENG. KZJ
DESIGNED BY DLS
CHECKED BY DSL
DRAWN BY KZJ
PROJECT MGR. KZJ

DIVISION CHIEF

DATE
FILE

NO	DESCRIPTION	NAME	DATE
1	ADDED CONDUIT FROM M01 TO SLS1	DLS	06/18/09
REVISIONS			

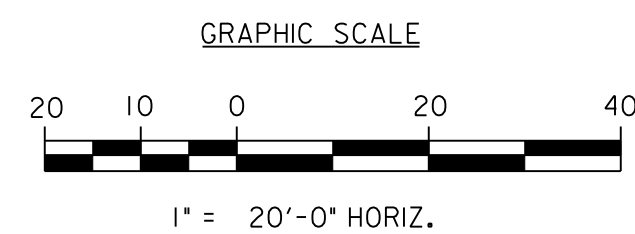
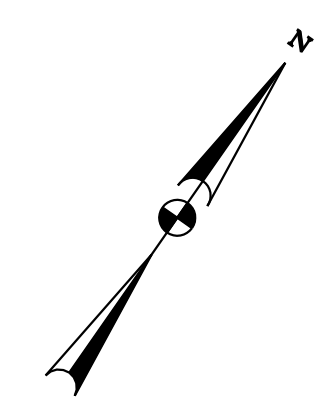
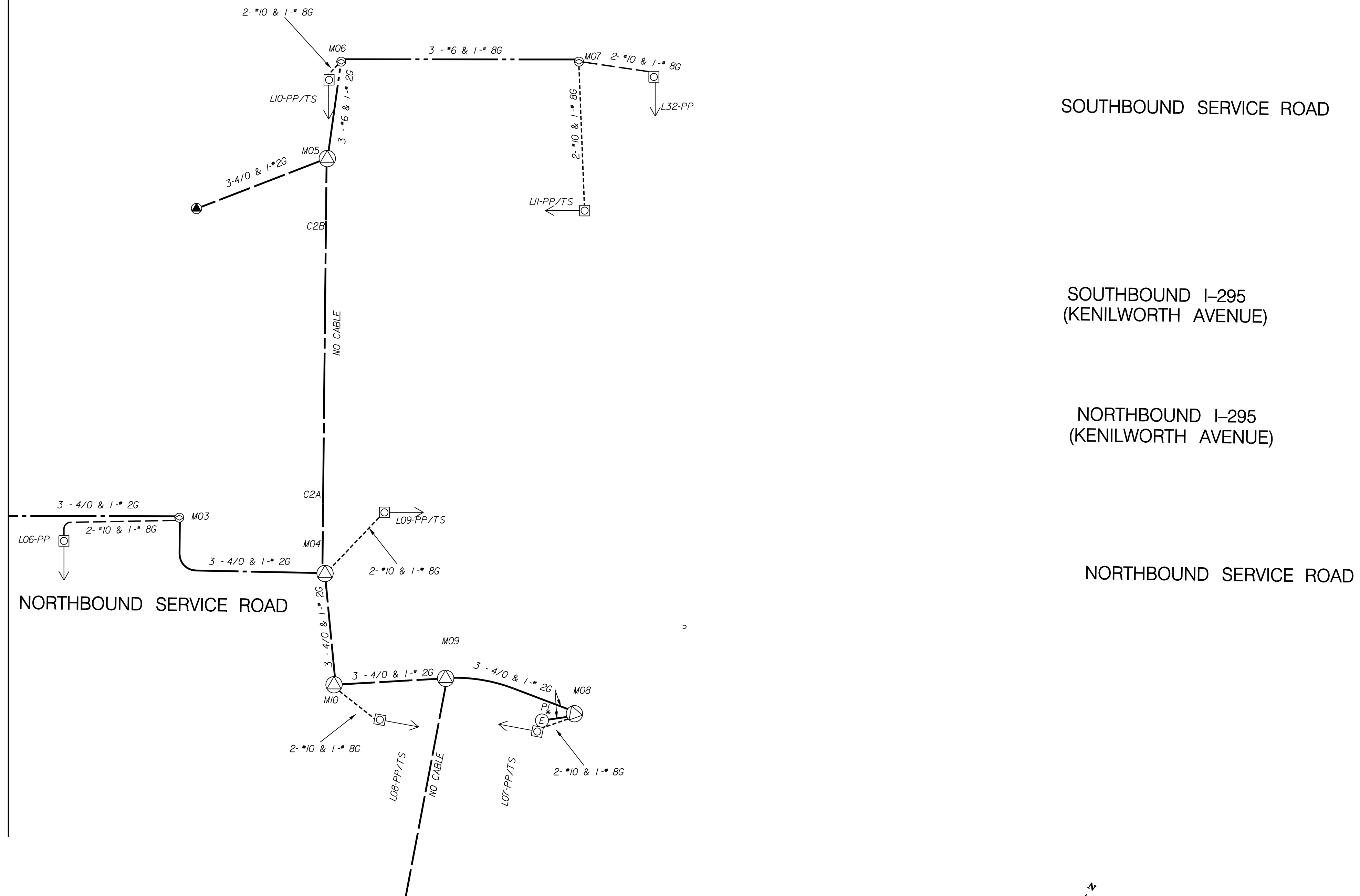


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WASHINGTON, D.C.

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CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	179	242

MATCH LINE A-A
SEE SHEET "LT-04"



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NO	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
LIGHTING SCHEMATIC II (PART I)	
PROJECT ENG. <u> KJZ </u> DESIGNED BY <u> DLS </u> CHECKED BY <u> DSL </u> DRAWN BY <u> KJZ </u> PROJECT MGR. <u> KJZ </u>	DIVISION CHIEF DATE _____ FILE _____

LT- 05

P:\30404\Lighting\Plan\Package (1)\LT-S002-30\40.dgn \$PENTBL\$\$
 Wednesday, April 29, 2009 AT 01:31 PM \$PLIDRVS\$\$

SCHEDULE		CONDUIT SUMMARY													
PAY ITEM NUMBER		DISTANCE	617 030	617 032	618 993 (618 075)	618 993(618 073)	617 034	618 993(618 071)	618 072	618 148	618 993(618 149)	618 150	618 993(618 151)	618 152	618 160
FROM STA.	TO STA.		2-4" & 1-2"	1-4" & 1-2"	3/4" RNC	2" RNC	4-4"	5-4" & 1-2"	1-2"	6-4"	6-4" RNC	6-4" & 1-2"	6-4" & 1-2" RNC	6-4" & 2-2"	2-4"
M01	L01-PP	121							121						
M01	SLS-1	54							54						
M01	C14	75	75												
C14	L03-PP	5							5						
C14	M02	130													130
M02	C14	14	14												
C14	L04A-PP	5							5						
C12	C11	183													183
C11	L06-PP	5							5						
C11	M03	32	32												
M03	M04	57													57
M04	L09-T20/TS	21		21											
M04	C2A	20												20	
M04	M10	29								29					
C2A	CCTV1	48										48			
CCTV1	C2B	34									34				
C2B	M05	17										17			
M05	EXISTING MH	42								42					
M05	TS02	7		7											
M05	M06	25					25								
M06	L10-PP/TS	5		5											
M06	C1	46					46								
C1	TS03	5		5											
C1	M07	22						22							
M07	TS04	3		3											
M07	L32-PP	19							19						
M07	L11-T20/TS	42		42											
M10	TS01	9		9											
M10	L08-PP/TS	18		18											
M10	M09	28							28						
M09	M08	35					35								
M08	TS05	58		58											
M08	TS06	24		24											
M08	L07-PP/TS	9		9											
M08	TC1	13	13												
P1	TC1	10							10						
P1	M08	5													5
C2A	B1	5				5									
B1	FL1	15			15										
B1	B2	22				22									
B2	FL2	2			2										
B2	B3	38				38									
B3	FL3	2			2										
B3	B4	39				39									
B4	FL4	2			2										
B4	B5	38				38									
B5	FL5	2			2										
B5	FL6	51			51										
C2BA	B6	5				5									
B6	FL7	15			15										
B6	B7	22				22									
B7	FL8	2			2										
B7	B8	38				38									
B8	FL9	2			2										
B8	B9	39				39									
B9	FL10	2			2										
B9	B10	38				38									
B10	FL11	2			2										
B10	FL12	51			51										
TOTAL			134	201	148	284	106	22	219	99	34	17	48	20	375

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 Monday, June 23, 2009 AT 12:46 PM
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 \$PENTBL\$\$



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NO	DESCRIPTION	NAME	DATE
1	ADDED CONDUIT FROM M01 TO SLS1	DLS	08/18/09

LT- 06

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

ELECTRICAL TABLES I (PART I)

PROJECT ENG. _____	KJZ
DESIGNED BY _____	DLS
CHECKED BY _____	DSL
DRAWN BY _____	KJZ
PROJECT MGR. _____	KJZ

DIVISION CHIEF	
DATE _____	FILE _____

CABLE SUMMARY								
SCHEDULE			QUANTITY					
			CABLE			GROUND WIRE		
PAY ITEM NUMBER			618 250	618 202	618 200	618 190	618 310	618 292
FROM STA.	TO STA.	DISTANCE	4/0	#6	#8	#10	#2	#8
M01	L01-PP	121				252		126
M01	SLS-1	54				118		59
M01	L03-PP	80				170		85
M01	M02	205	645				215	
M02	L04A-PP	19				48		24
M02	M03	229	717				239	
M03	L06-PP	37				84		42
M03	M04	57	201				67	
M04	L09-T20/TS	21				52		26
M04	M10	29	117				39	
M04	B1	25		93	31			
B1	FL1	15			16	32		
B1	B2	22		72	24			
B2	FL2	2			3	6		
B2	B3	38		117	39			
B3	FL3	2			3	6		
B3	B4	39		120	40			
B4	FL4	2			3	6		
B4	B5	38		117	39			
B5	FL5	2			3	6		
B5	FL5	51			52	104		
M05	EXISTING MH	42	141				47	
M05	B06	22		84	28			
B6	FL7	15			16	32		
B6	B7	22		72	24			
B7	FL8	2			3	6		
B7	B8	38		117	39			
B8	FL9	2			3	6		
B8	B9	39		120	40			
B9	FL10	2			3	6		
B9	B10	38		117	39			
B10	FL11	2			3	6		
B10	FL12	51			52	104		
M05	M06	25		105				35
M06	L10-PP/TS	5				20		10
M06	M07	68		234				78
M07	L32-PP	19				48		24
M07	L11-T20/TS	42				188		94
M10	L08-PP/TS	18				26		23
M10	M09	28	114				38	
M09	M08	35	135				45	
M08	L07-PP/TS	9				28		14
P1	M08	5	45				15	
Total			2115	1368	503	1354	705	640

LT- 07

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

ELECTRICAL TABLES II (PART I)

PROJECT ENG. KZJ
 DESIGNED BY DLS
 CHECKED BY DSL
 DRAWN BY KZJ
 PROJECT MGR. KZJ

DIVISION CHIEF

DATE _____
 FILE _____



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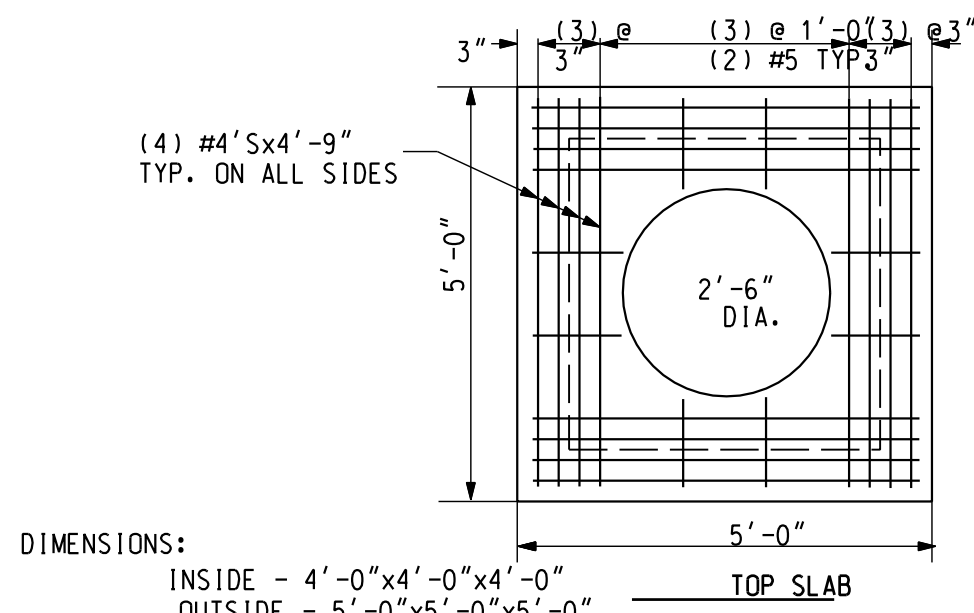
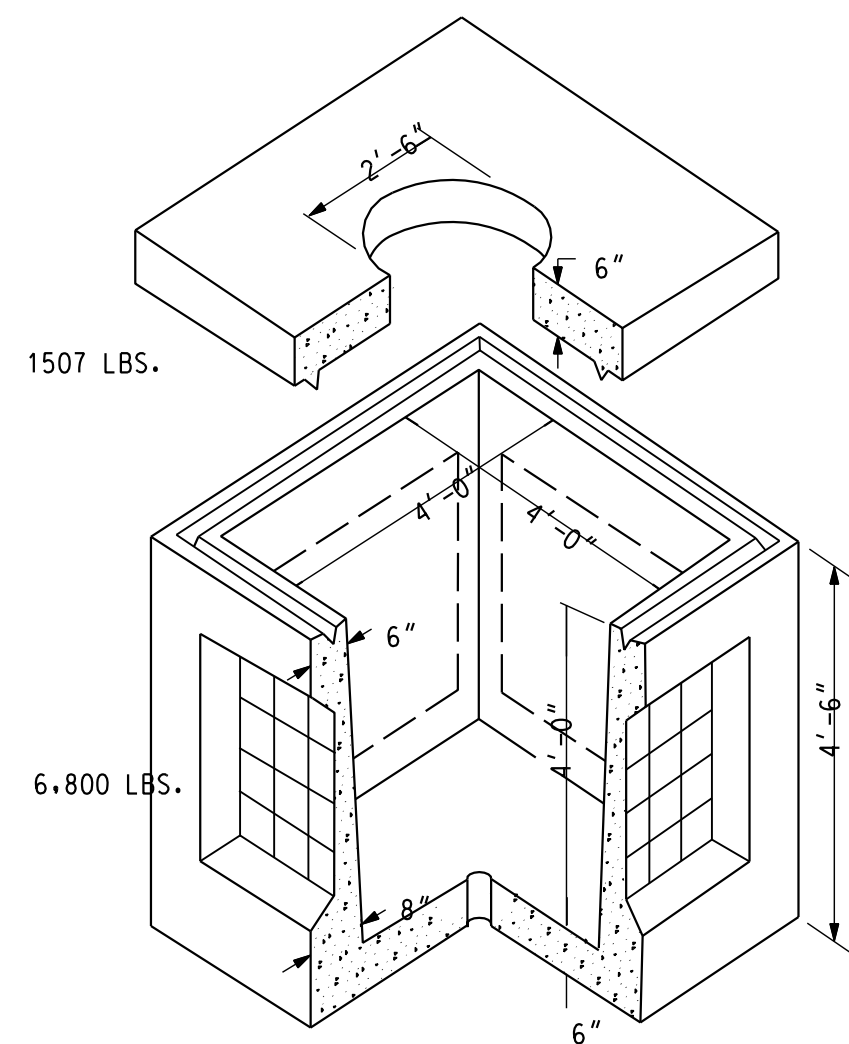


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NO	DESCRIPTION	NAME	DATE
1	ADDED CONDUIT FROM M01 TO SLS1	DLS	06/18/09

REVISIONS

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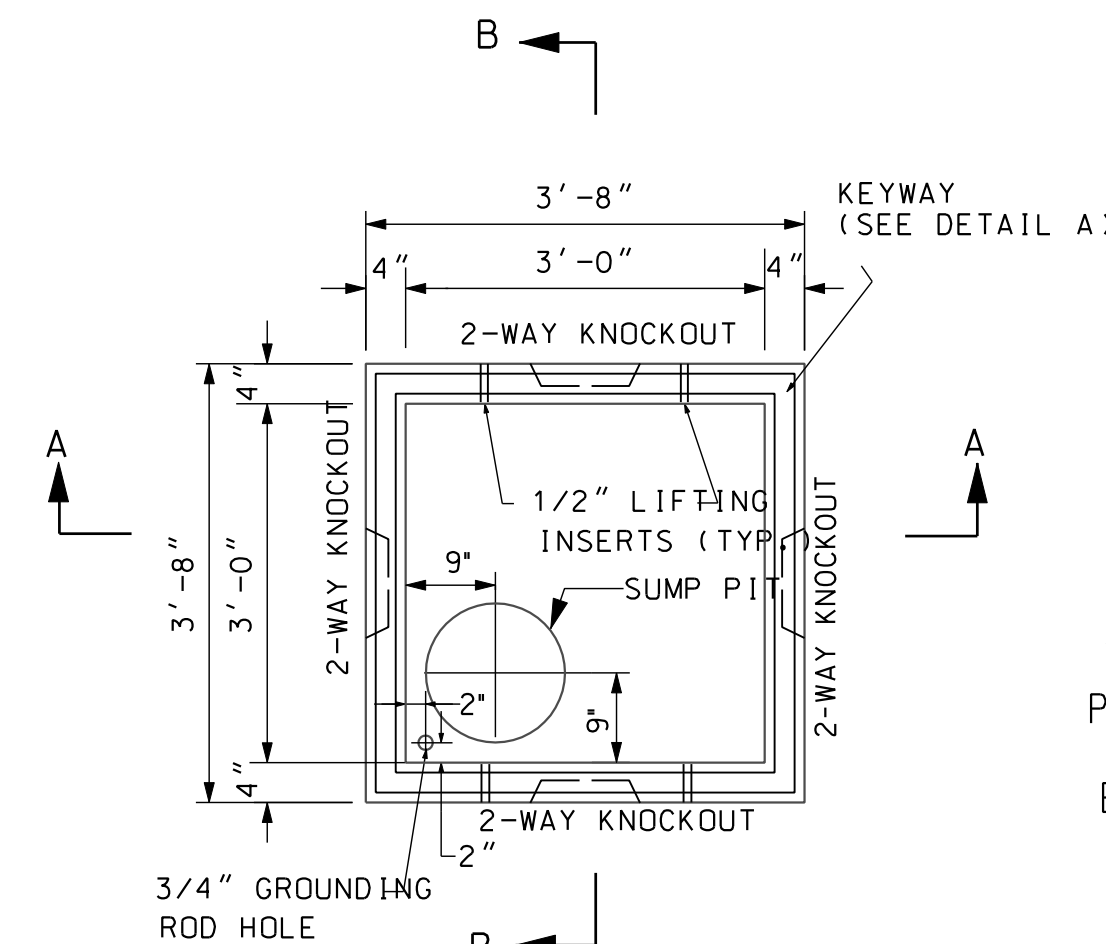
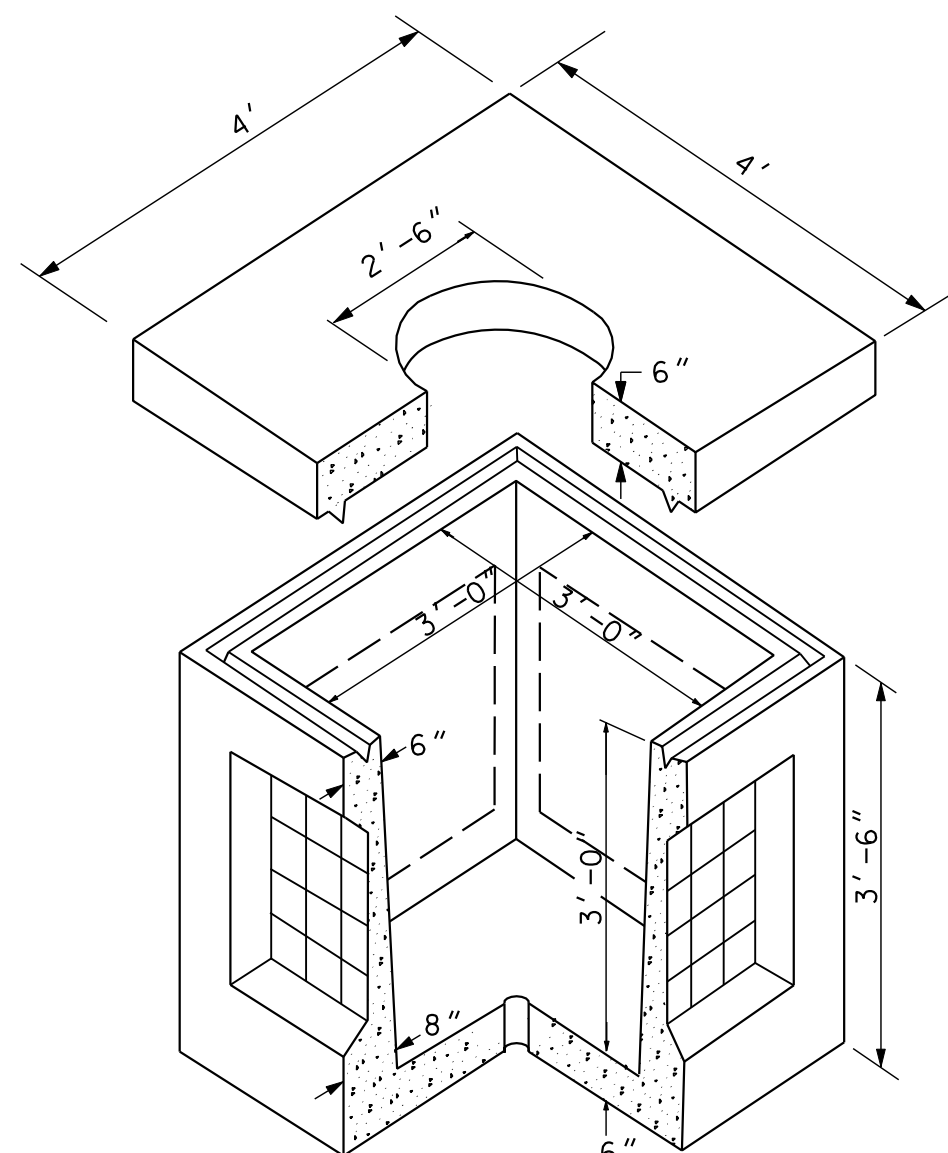


DIMENSIONS:
 INSIDE - 4'-0" x 4'-0" x 4'-0"
 OUTSIDE - 5'-0" x 5'-0" x 5'-0"
 TOP SLAB

KNOCKOUTS:
 ALL WALLS - 3'-6" x 2'-10", 1 PER WALL

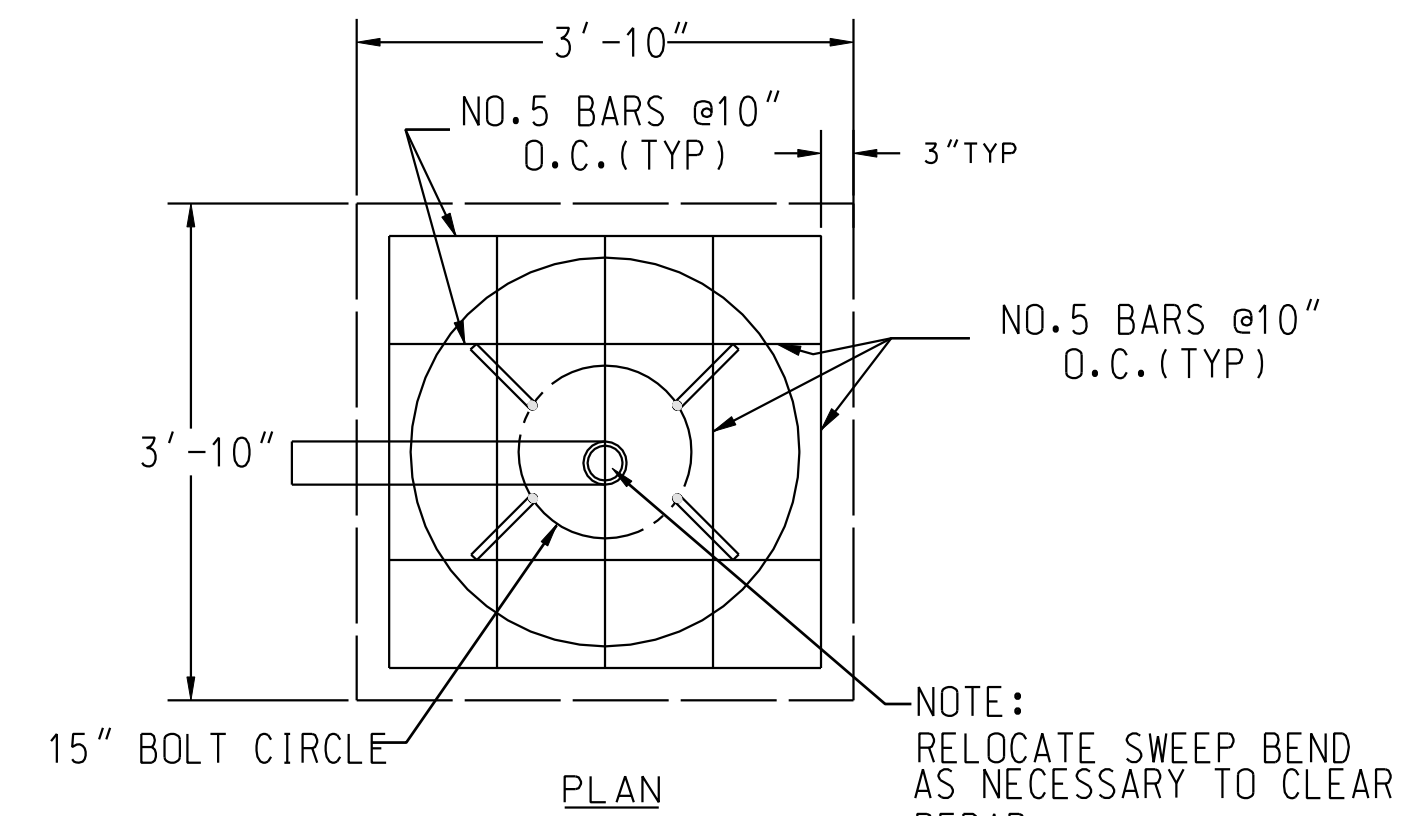
TOTAL WEIGHT:
 8,373 LBS.

KNOCKOUT PANEL:
 2 1/2" SOLID CONCRETE WITH 6x6, 6/6 WWF AT CENTER LAP 6" INTO SLABS.



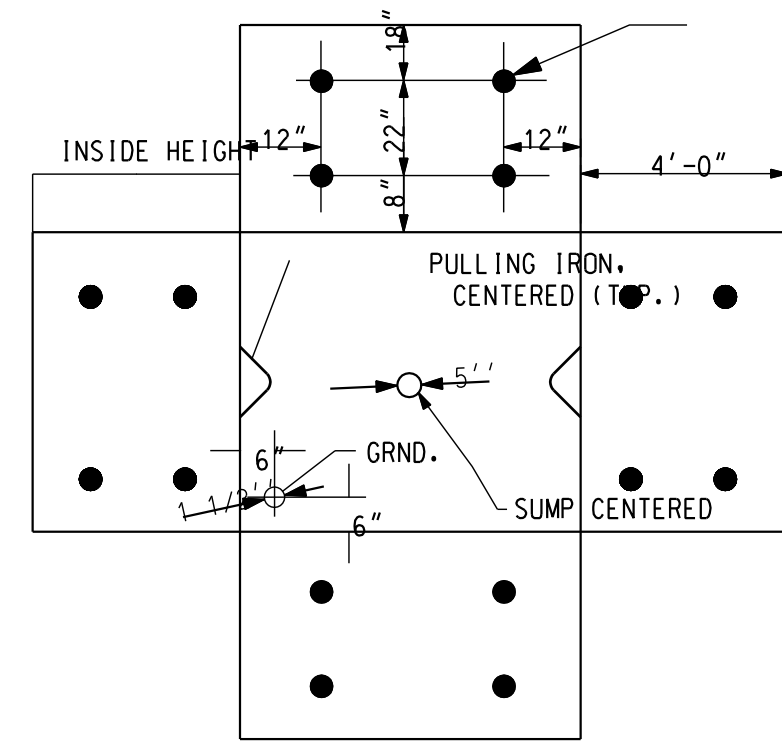
PLAN

ATTENTION
 POLE HEIGHT
 MUST NOT
 EXCEED 30'

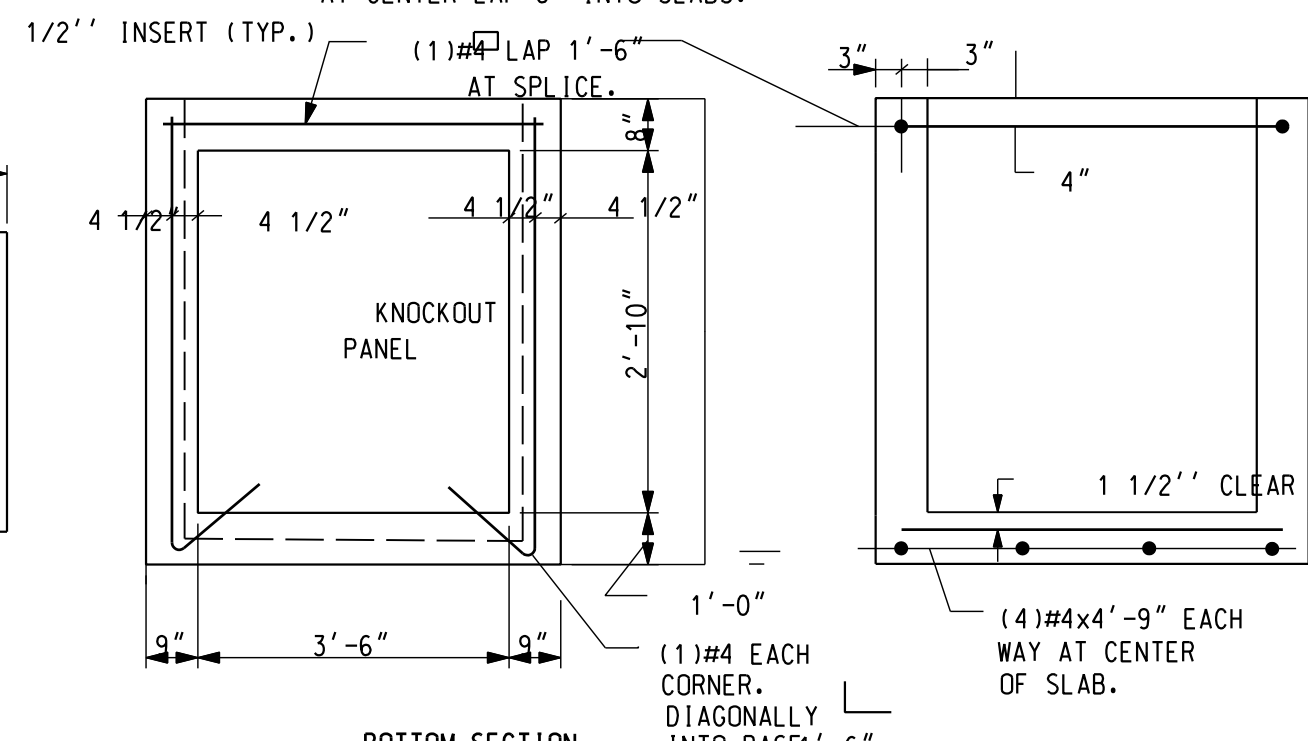


PLAN

NOTE:
 RELOCATE SWEEP BEND
 AS NECESSARY TO CLEAR
 REBAR

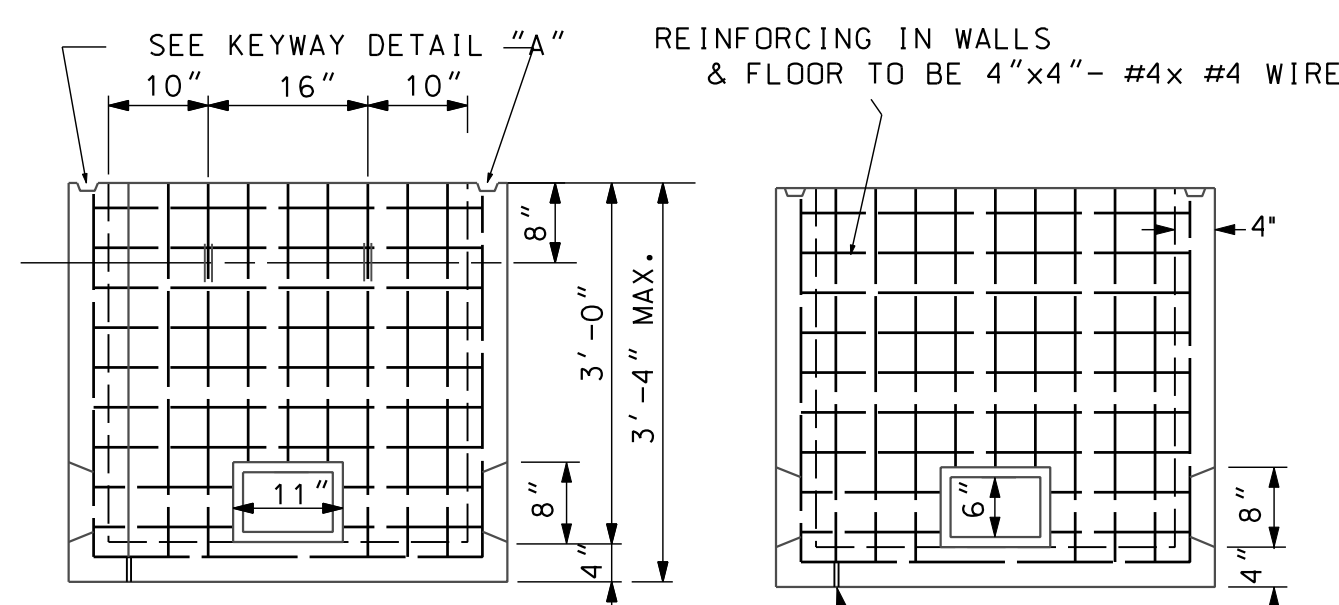


INSERT PLACEMENT SCHEDULE



BOTTOM SECTION

4' X 4' X 4' MANHOLE



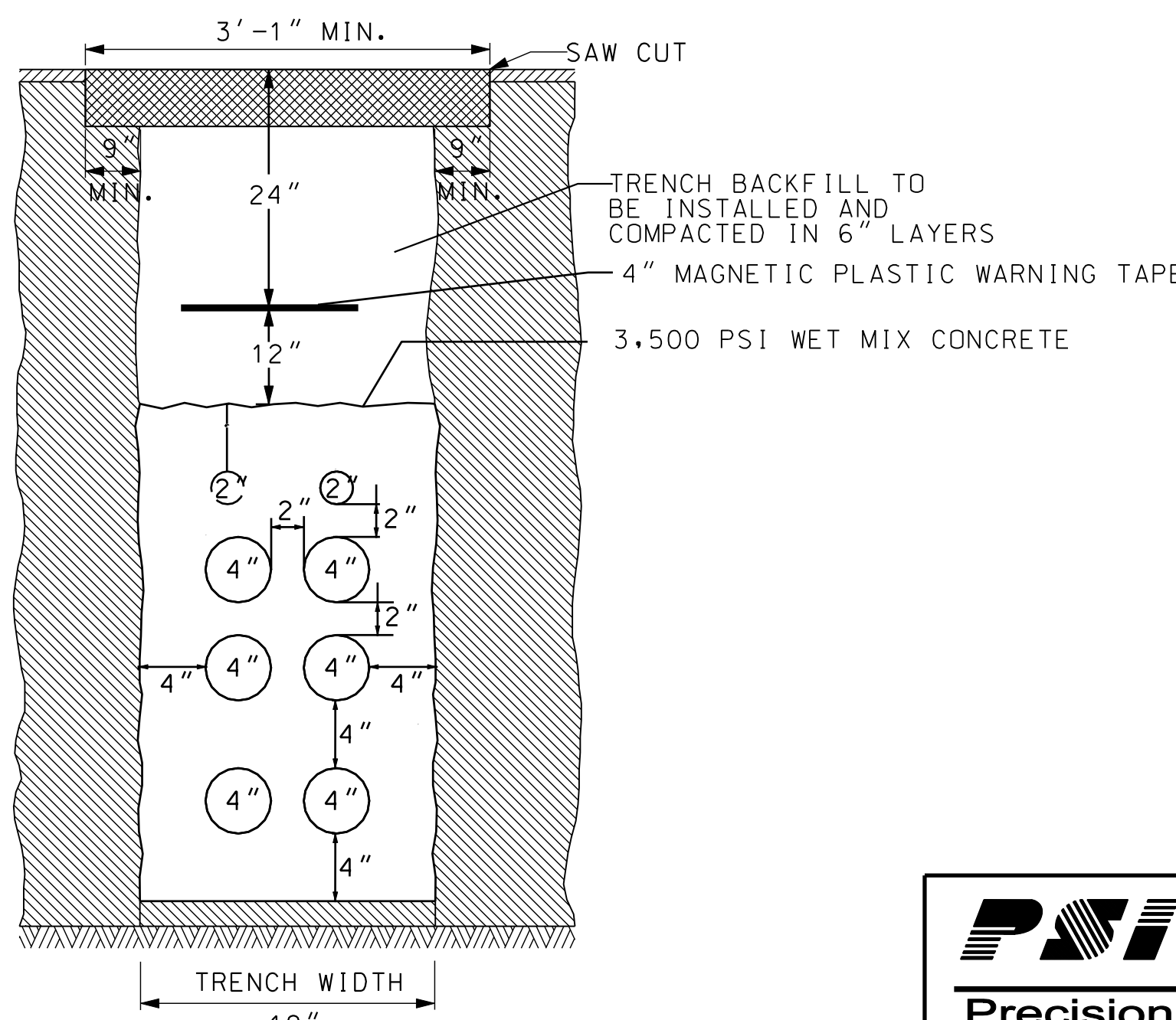
SECTION A-A

SECTION B-B

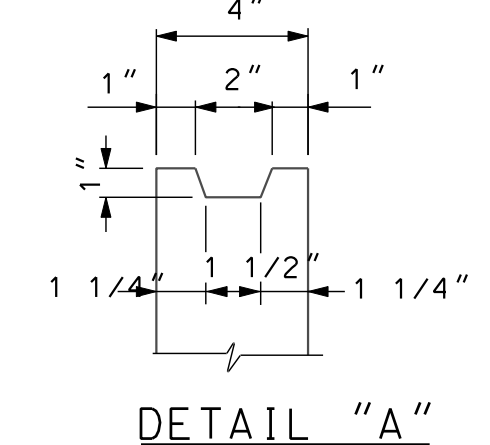
NOTES:
 1. CLASS B CONCRETE.
 2. HANDHOLE WILL BE DESIGNED FOR MINIMUM H2O LOADING AND SUPPLIER IS TO PROVIDE CERTIFIED DESIGN CALCULATIONS FOR RECORD OR FOR APPROVAL.

3' X 3' X 3' MANHOLE

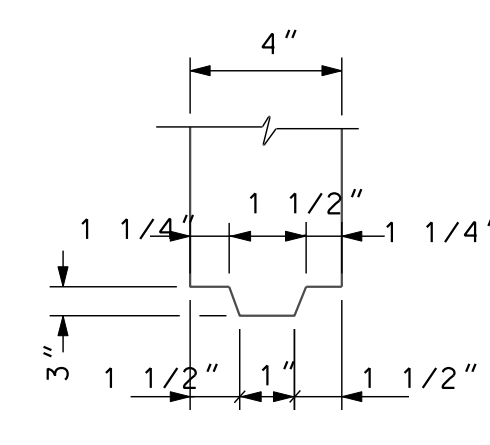
TYPICAL CROSS SECTION OF
 STREETLIGHT CONDUIT DUCT BANK



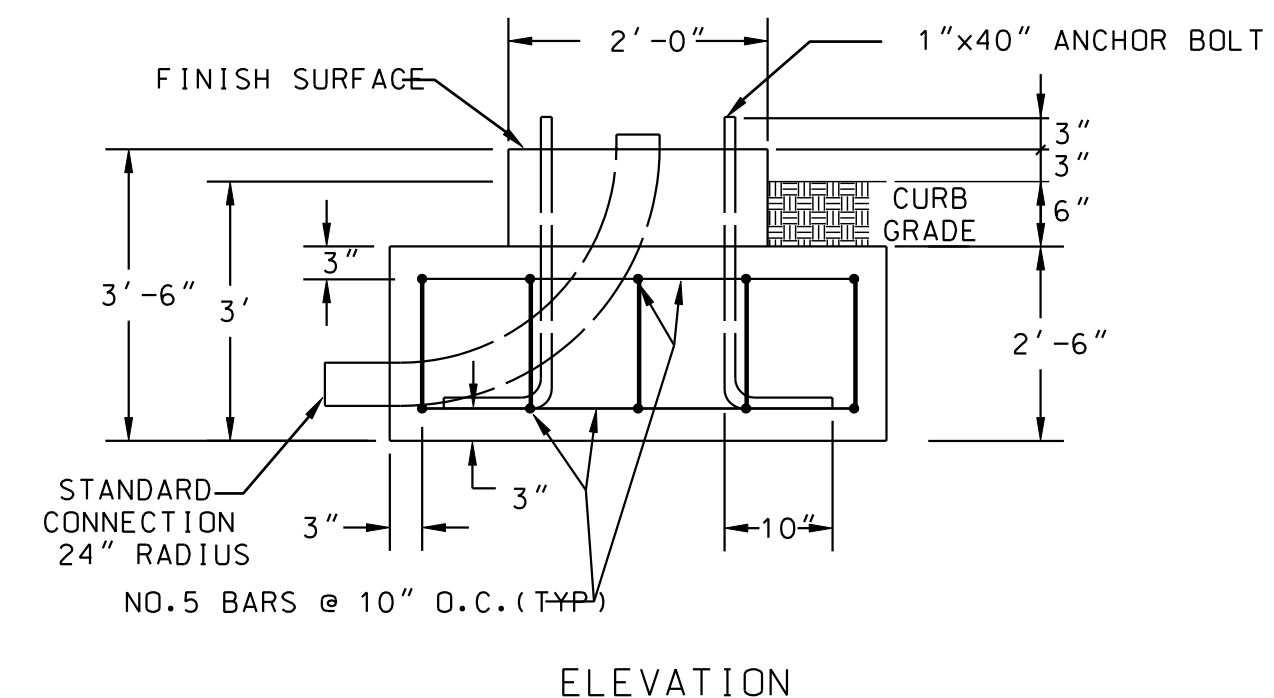
TRENCH WIDTH
 19"



DETAIL "A"



DETAIL "B"



ELEVATION

SPREAD FOOTER FOUNDATION

NOTE:
 FOUNDATION CAP TO BE POURED BASED
 ON POLE TYPE TO BE USED AT THAT
 LOCATION.

LT-09

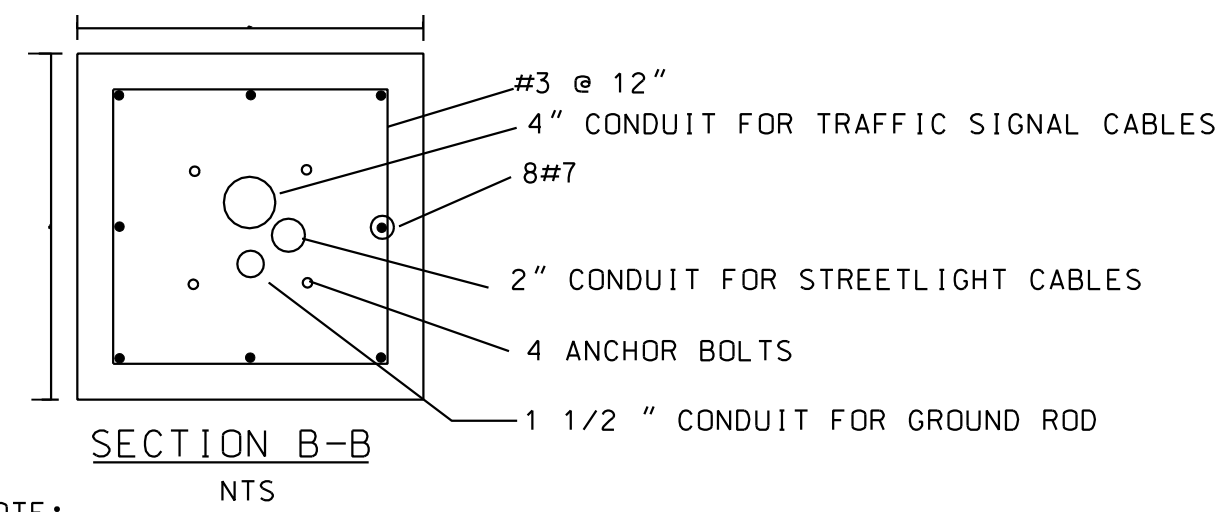
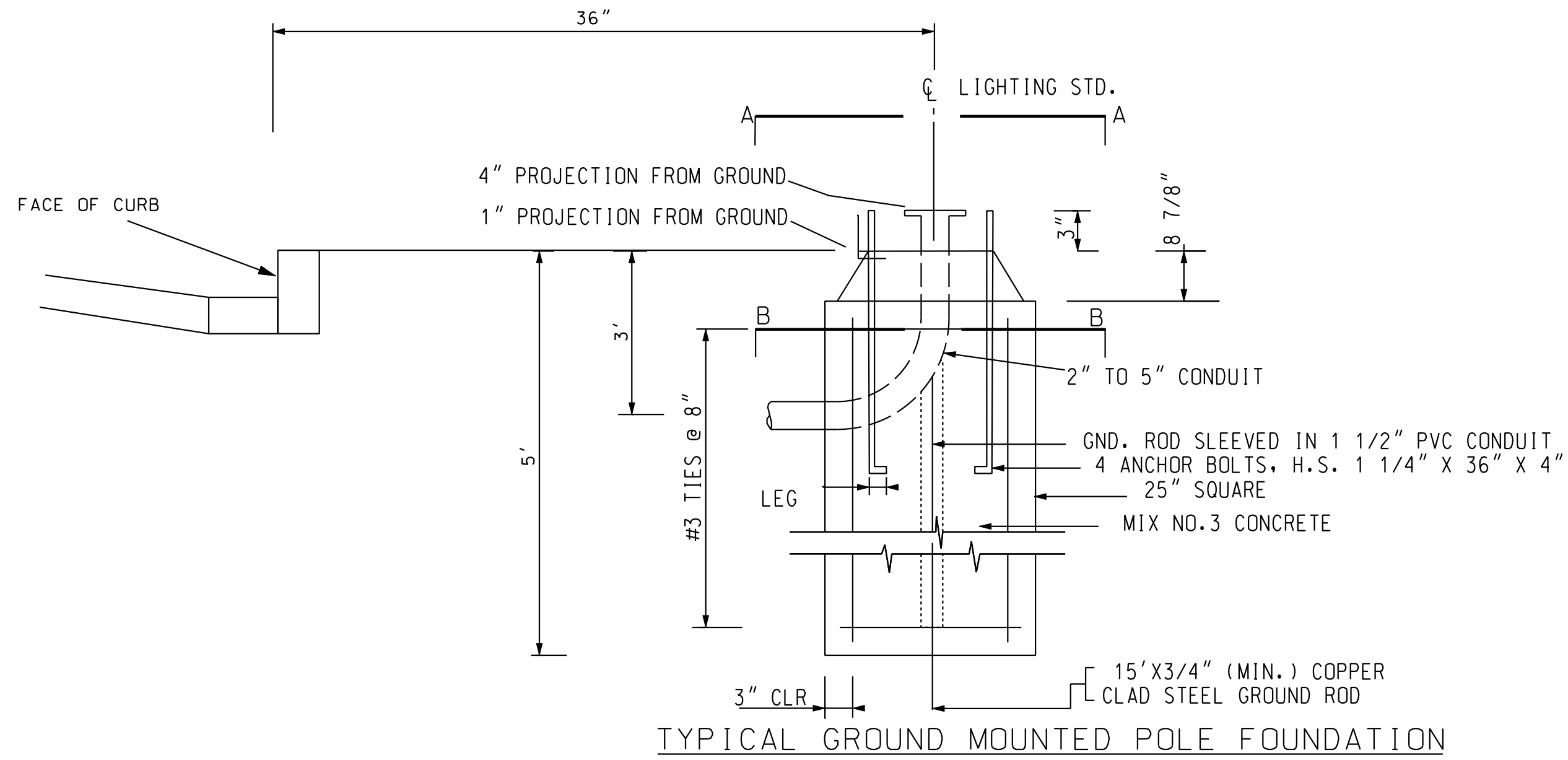
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
PROJECT ENG. KJZ DESIGNED BY DLS CHECKED BY DLS DRAWN BY KJZ PROJECT MGR. KJZ	DIVISION CHIEF
LIGHTING PLAN DETAILS I (PART I)	
DATE	FILE

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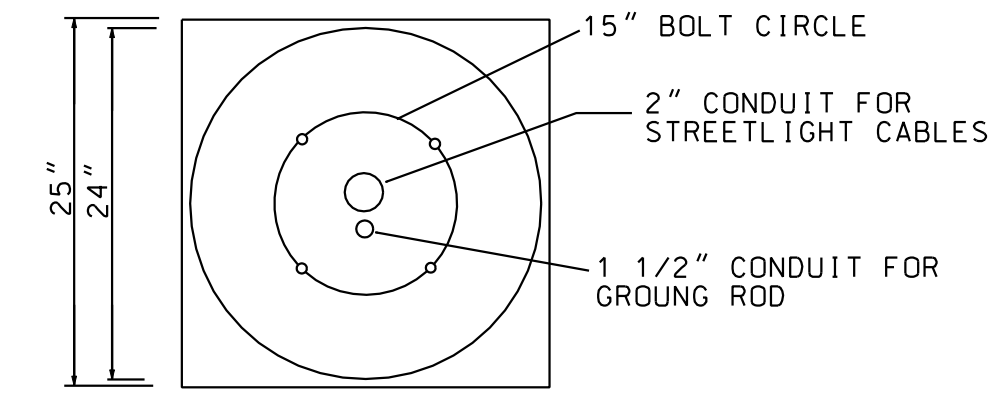
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

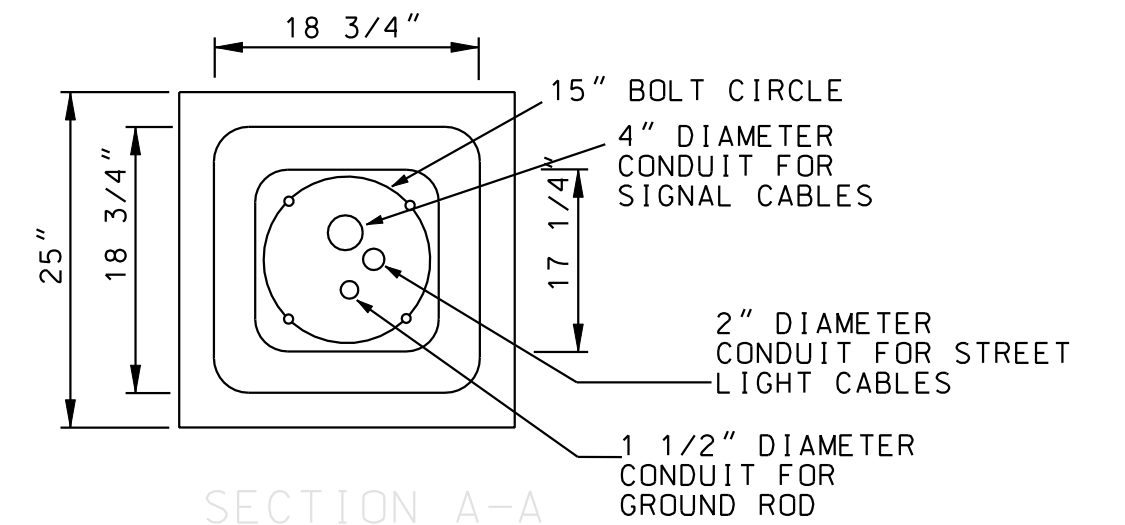
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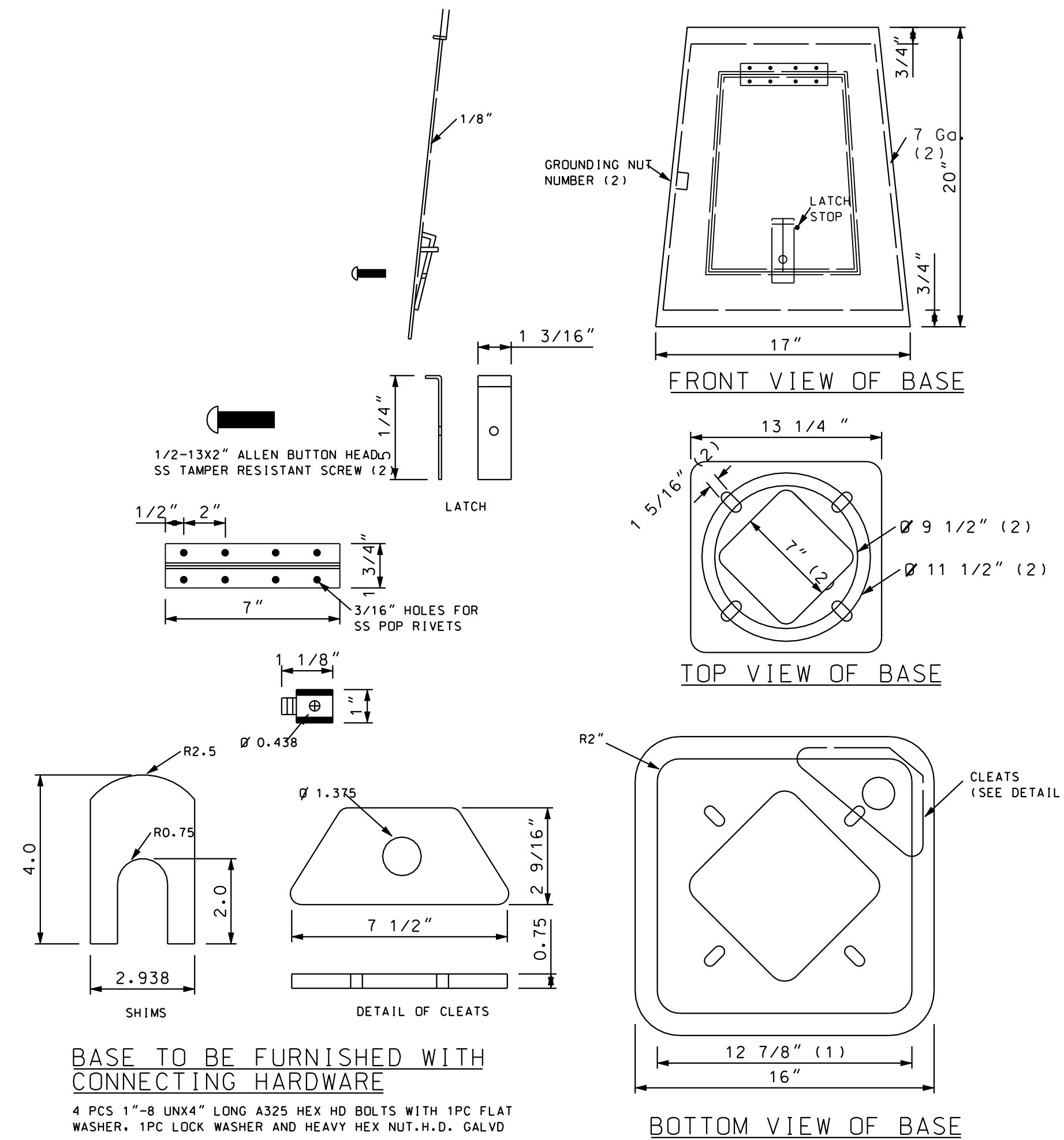
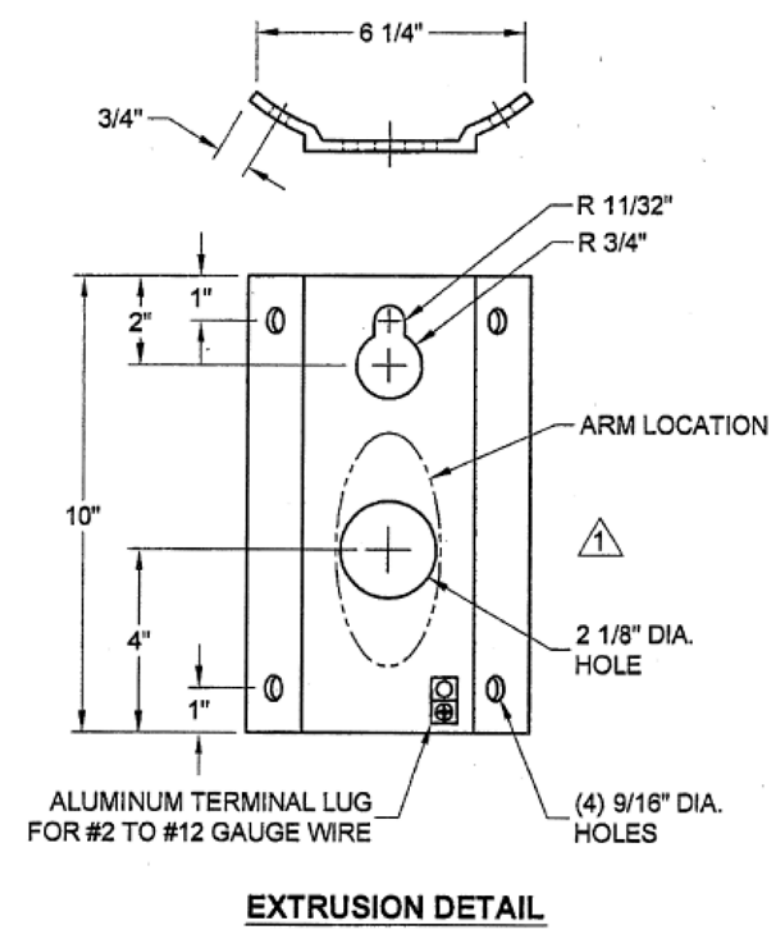
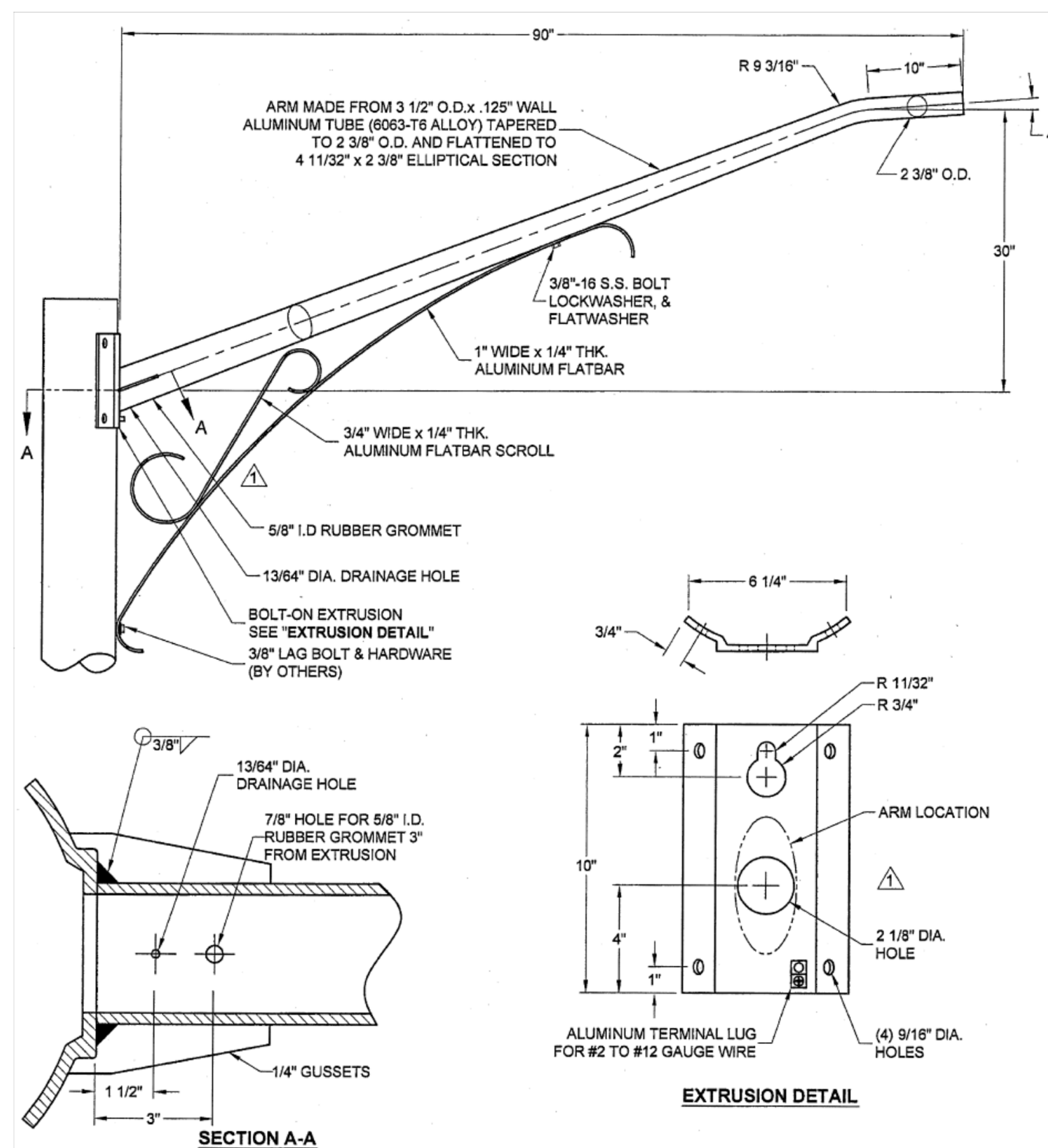
NOTE:
*NO 4" CONDUIT AND 2" CONDUIT TO BE PLACED IN CENTER IN LIGHTING ONLY POLE
** FOUNDATION CAPS WILL BE 1" MINIMUM ABOVE GROUND.



SECTION A-A
NTS
CAP DETAIL FOR #16 UPRIGHT POST (CAST IRON)



SECTION A-A
NTS
CAP DETAIL FOR PENDANT POST WITH TRAFFIC SIGNALS



BASE TO BE FURNISHED WITH CONNECTING HARDWARE
4 PCS 1"-8 UNX4" LONG A325 HEX HD BOLTS WITH 1PC FLAT WASHER, 1PC LOCK WASHER AND HEAVY HEX NUT, H.D. GALVD

LT- 10

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
LIGHTING PLAN DETAILS II (PART I)	
PROJECT ENG. KZJ DESIGNED BY DLS CHECKED BY DSL DRAWN BY KZJ PROJECT MGR. KZJ	DIVISION CHIEF
DATE	FILE

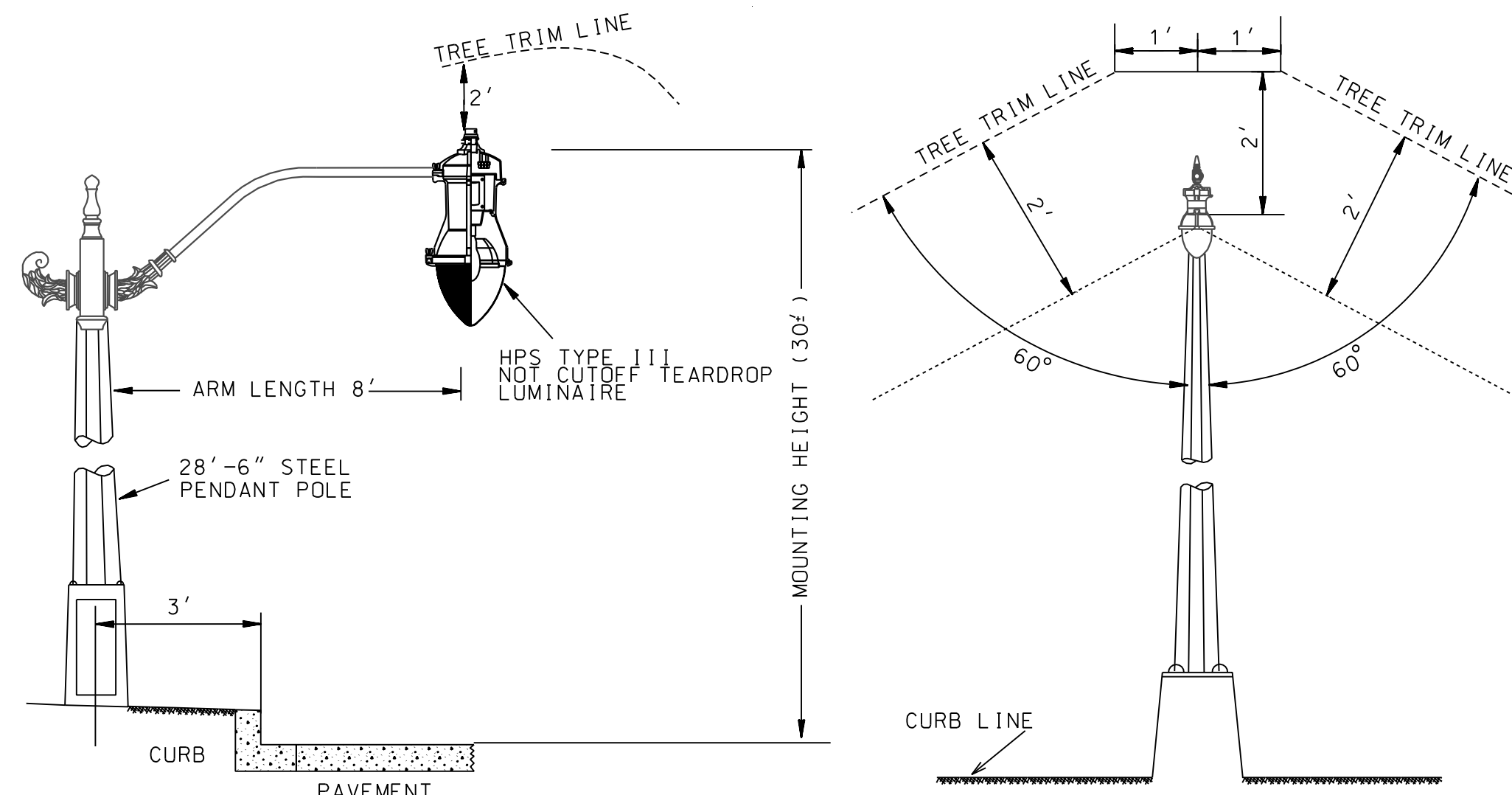
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NO	DESCRIPTION	NAME	DATE
REVISIONS			

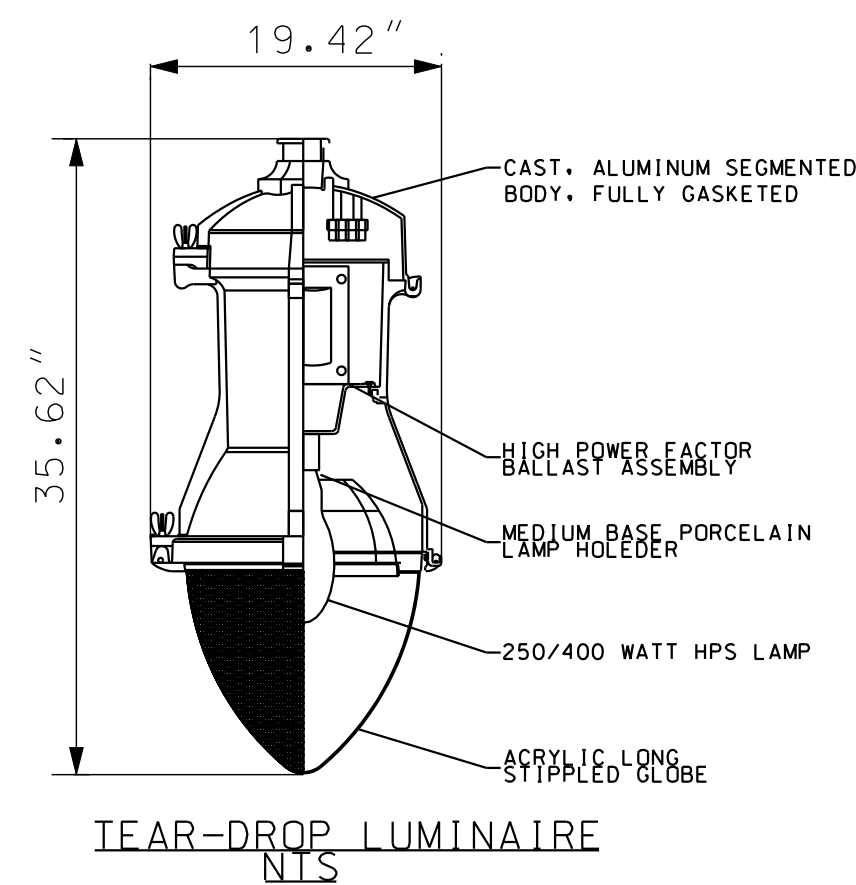
LIGHT STANDARD SCHEDULE				
POLE, ARM AND BASE	LUMINAIRE	LAMPS	GLOBES	REMARKS
30 FT PENDANT POST WITH TRANSFORM BASE	1 250/400 W HPS TEARDROP	1 250/400 W HPS LAMP	STIPPLED ACRYLIC GLOBE	1 PHOTO CELL

MOUNTING HEIGHT FROM POLE BASE CASTING (FT)	LUMINAIRE ARM DATA		POLE TUBE		POLE BASE CASTING				ANCHOR BOLT			TRANSFORMER BASE	FOUNDATION BOLT CIRCLE (IN)			
	SINGLE ARM SPAN (FT)	TWIN ARM SPAN (FT)	BASE DIA (IN)	TOP DIA (IN)	GAUGE OR THICK (IN)	SQUARE S (IN)	BOLT CIRCLE DIA (IN)	BOLT SQUARE (IN)	HOLE DIA (IN)	LENGTH (IN)	HOLE DIA (IN)	HOOK (IN)	THREAD LENGTH (IN)	STEEL	WITH T-BASE (*)	
30	8	8	8.00	4.01	28.50	11	11.50	11.00	7.75	1.25	1.00	3600	4.00	6.00	YES	15.00

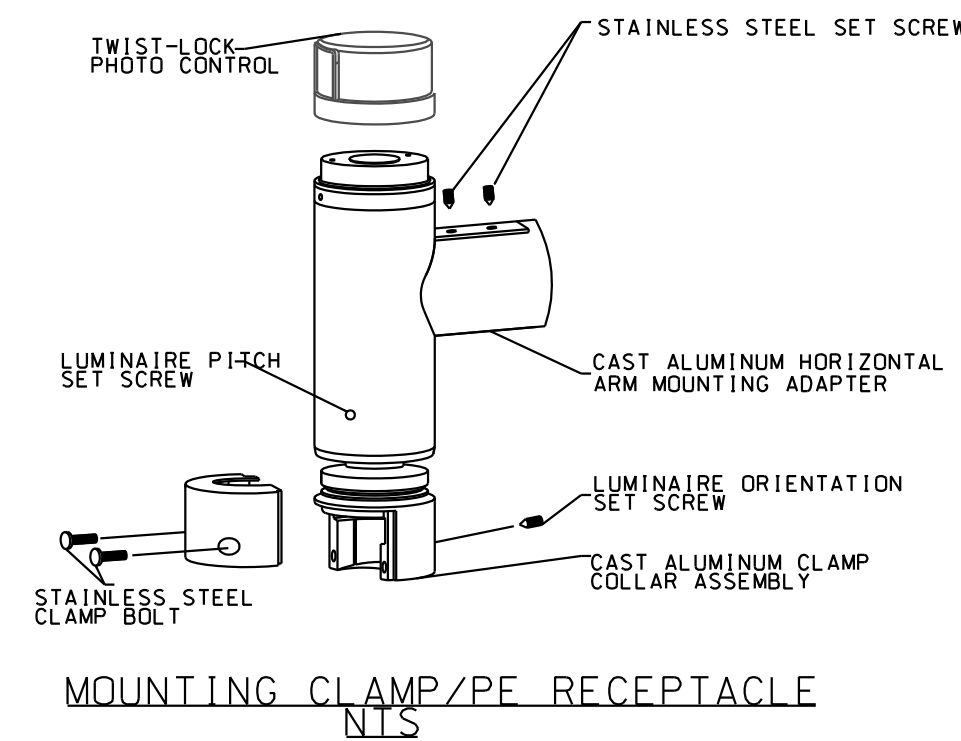


TREE TRIM DETAIL FOR PENDANT POST OR WOOD POLE
NOT TO SCALE

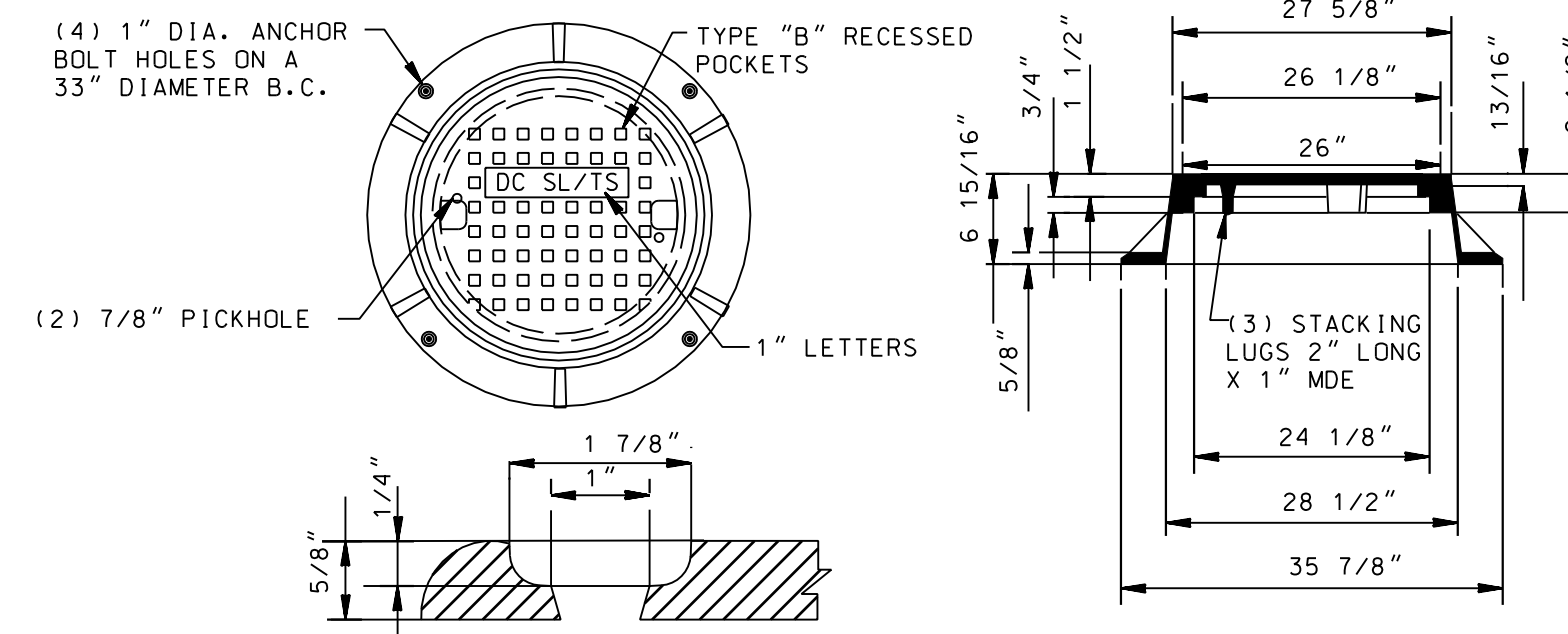
GALVANIZED STEEL LUMINAIRE SUPPORTS FOR CLASS 3 WOOD POLE
NOT TO SCALE



TEAR-DROP LUMINAIRE
NLS



MOUNTING CLAMP/PE RECEPTACLE
NLS



ANCHOR HOLE DETAIL

NOTE:
WHERE MANHOLE IS IN SIDEWALKS, THE COVER SHALL CONFORM WITH SIDEWALK SLOPE. AT ALL OTHER LOCATIONS, IT SHALL BE LEVEL.

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH CASTINGS ARE HEAVY DUTY, MEETING AASHTO - M20 LOADING REQUIREMENTS.

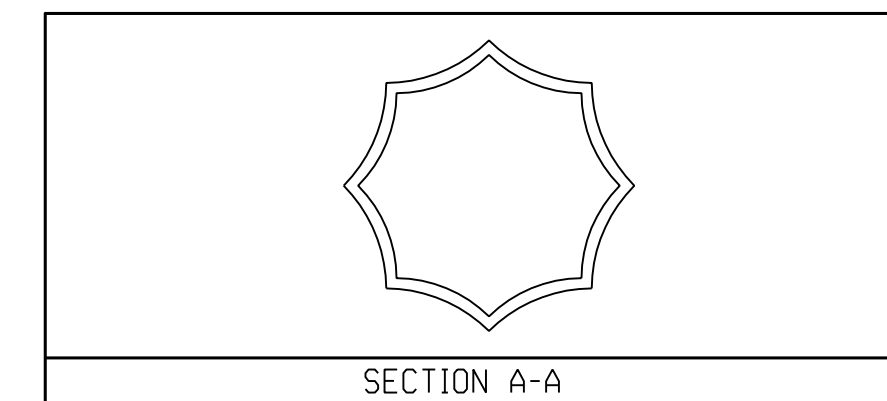
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B, AASHTO, M306

FINISH: NOT PAINTED

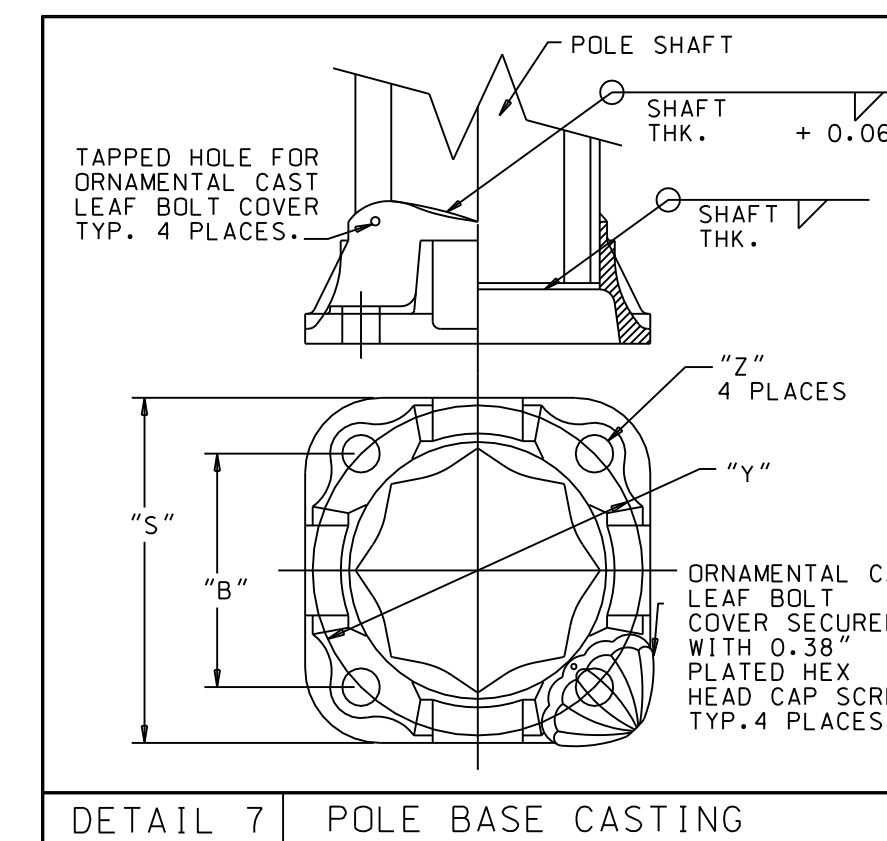
NOT TO SCALE

THE MANUFACTURERS NAME OR LOGO SHALL NOT BE CAST INTO RING OR COVER

MANHOLE FRAME AND COVER

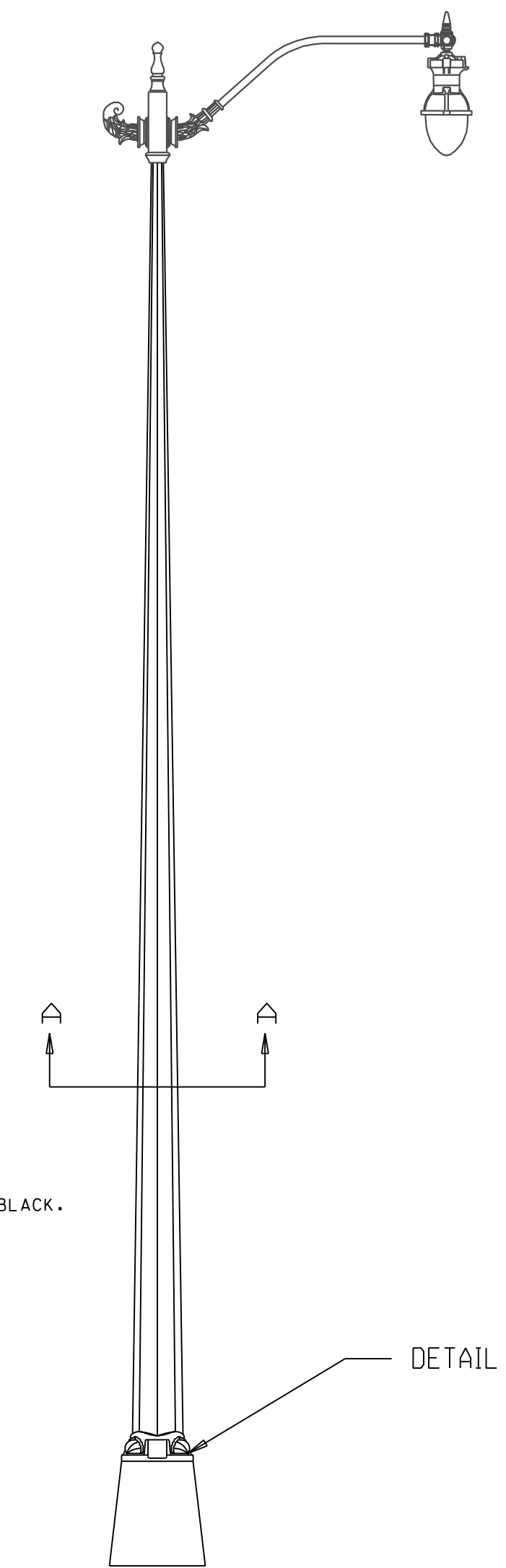


SECTION A-A



DETAIL 7 POLE BASE CASTING

NOTE: ALL PENDANT POST POLES TO BE BLACK.



PENDANT POST DETAILS

DETAIL 7

LT- 11

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN DETAILS III (PART I)

PROJECT ENG. KJZ
DESIGNED BY DLS
CHECKED BY DSL
DRAWN BY KJZ
PROJECT MGR. KJZ

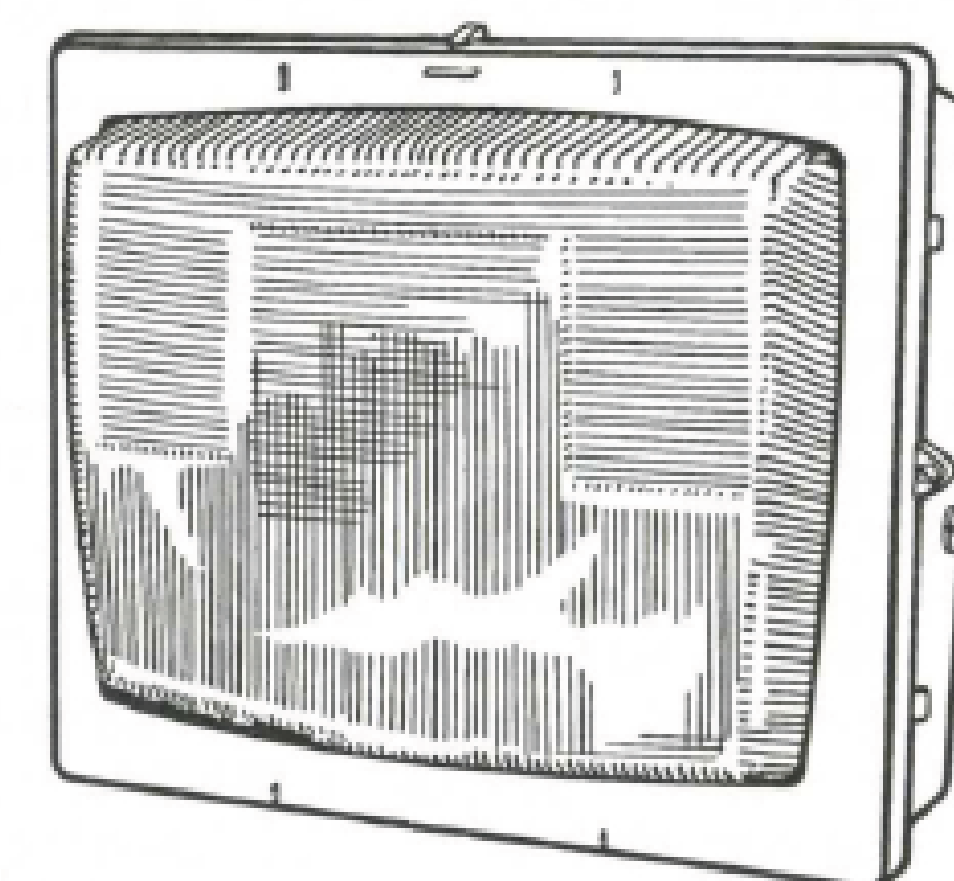
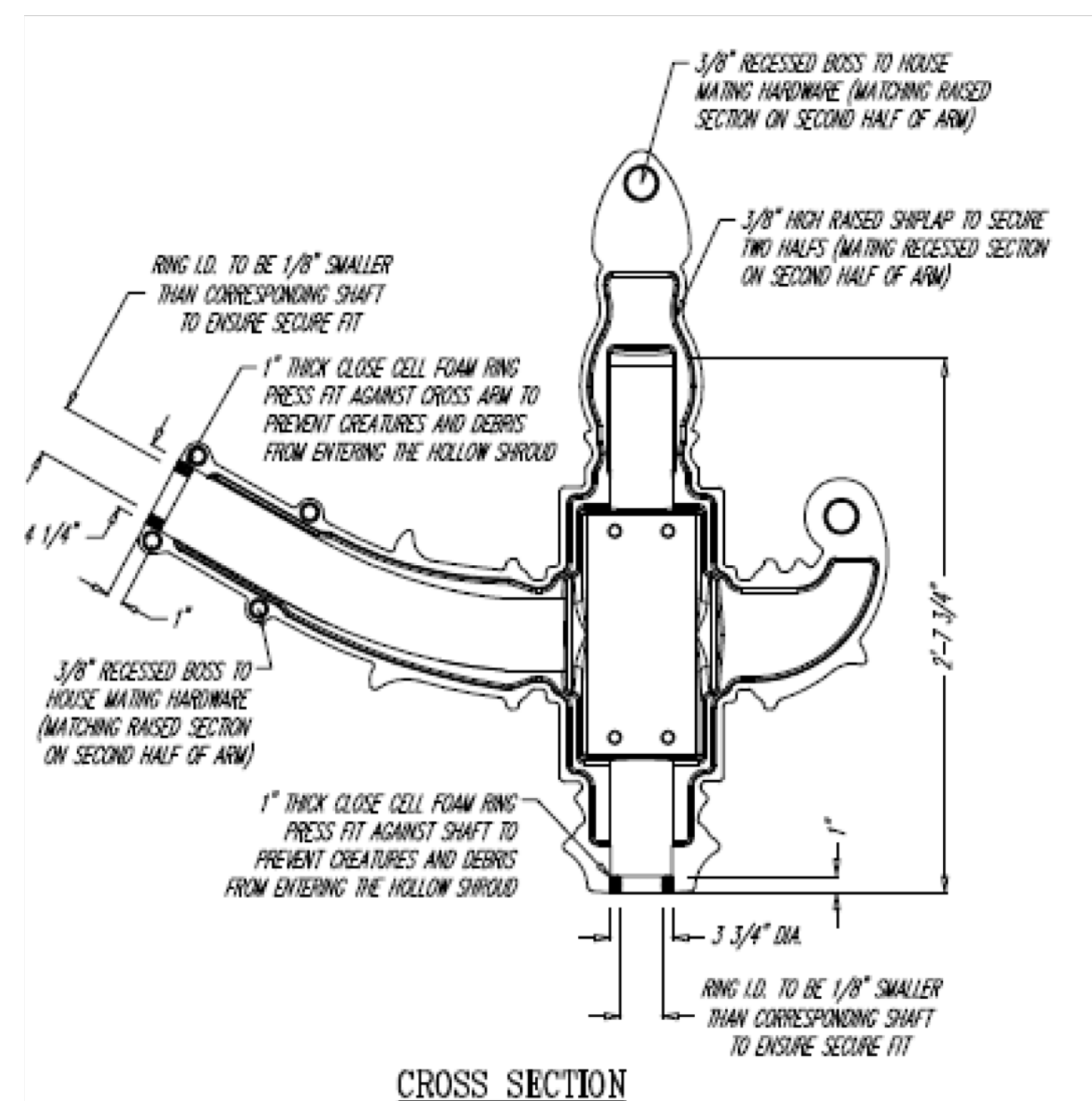
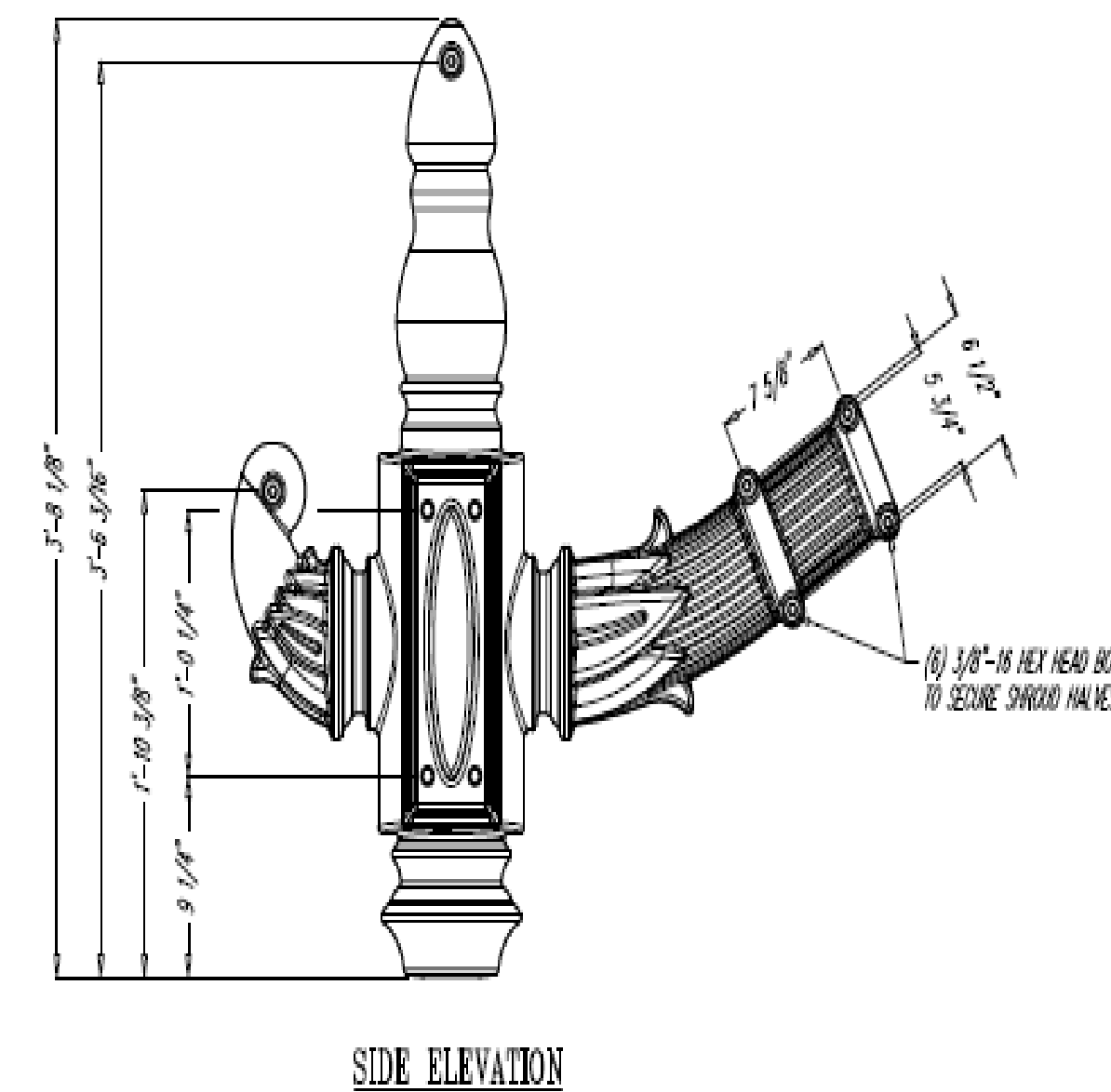
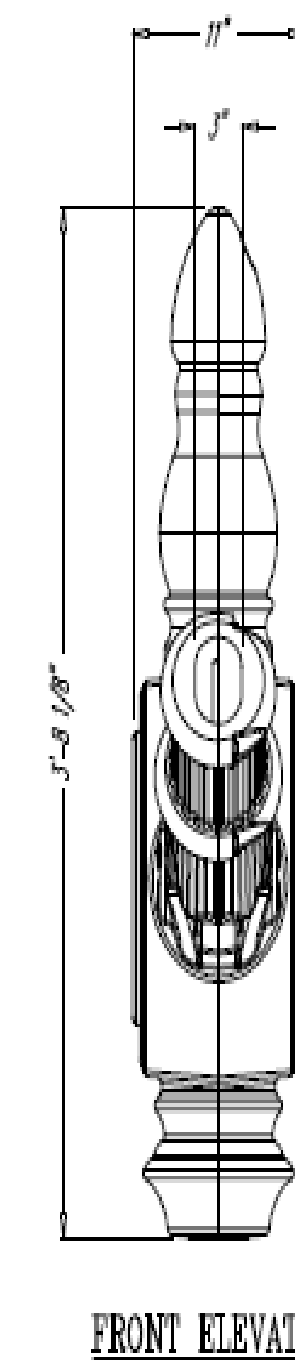
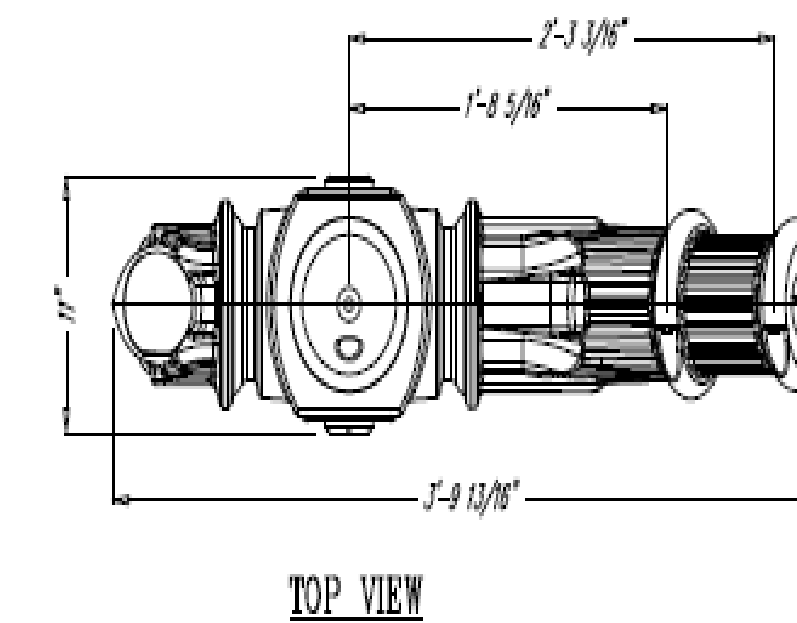
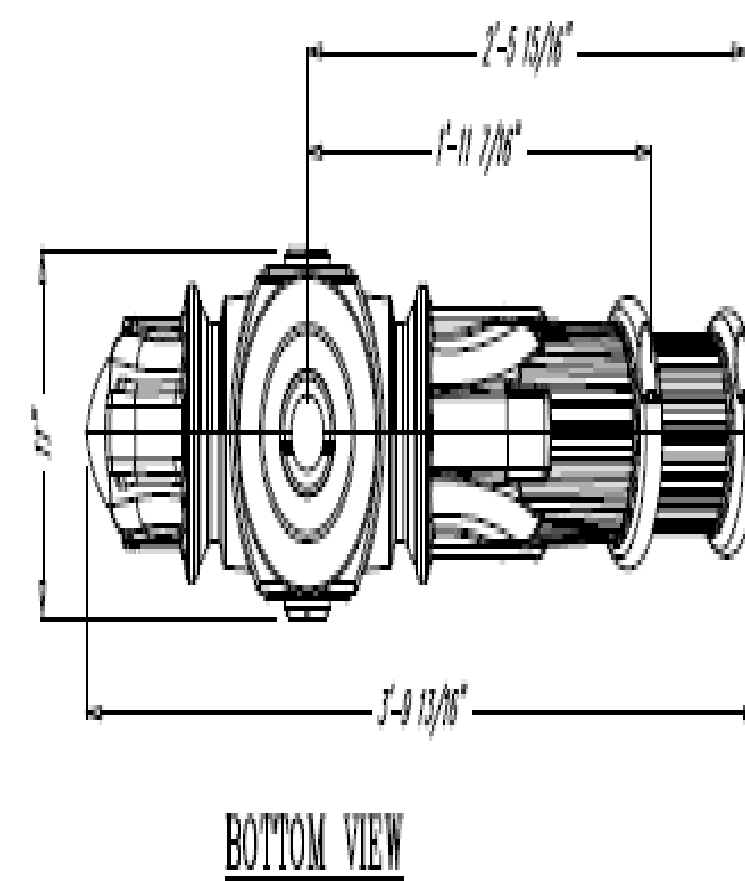
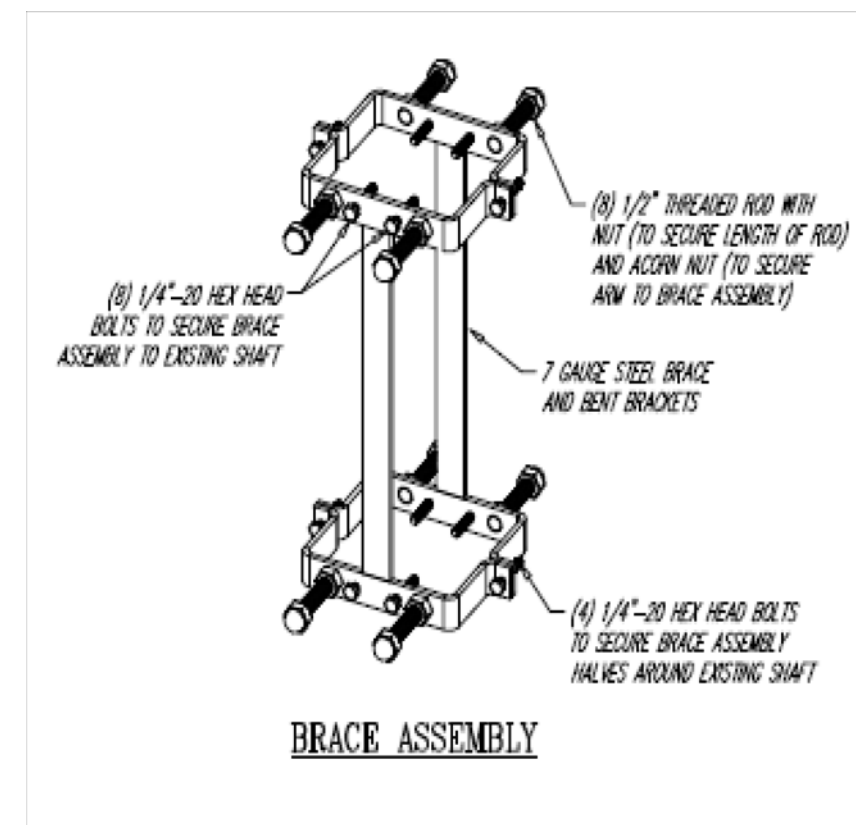
DIVISION CHIEF

DATE _____
FILE _____



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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO	DESCRIPTION	NAME	DATE
REVISIONS			



250W HPS WALL MOUNTED LUMINAIRE

LT-12

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN DETAILS IV (PART I)

PROJECT ENG. KJZ
DESIGNED BY DSL
CHECKED BY DSL
DRAWN BY KJZ
PROJECT MGR. KJZ

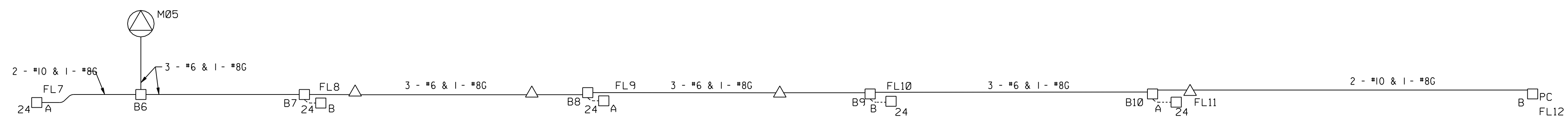
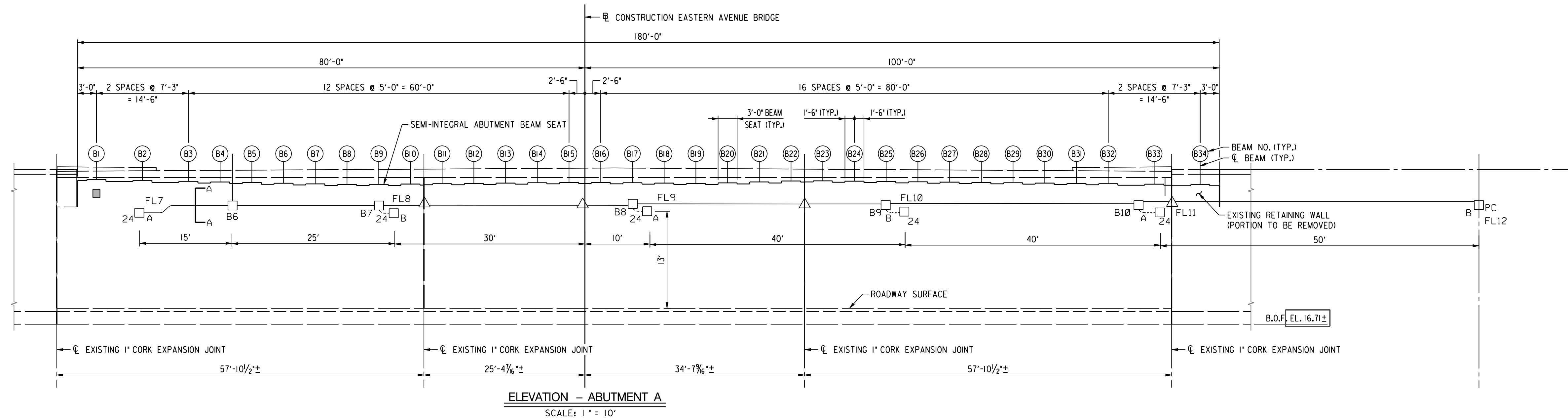
DIVISION CHIEF

DATE _____
FILE _____



GREENHORNE & O'MARA
CONSULTING ENGINEERS
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO	DESCRIPTION	NAME	DATE
REVISIONS			



- LEGEND**
- NEMA 4 JUNCTION BOX
 - 24 250 WATT HPS WALL PACK FIXTURE 24 HOUR OPERATION
 - PC 250 WATT HPS WALL PACK FIXTURE WITH PHOTOCELL
 - △ EXPANSION/DEFLECTION FITTING (SHALL MEET REQUIREMENTS OF 621.10 AND 820.13)
 - RIGID METAL CONDUIT (2")
 - RIGID METAL CONDUIT (3/4")

- NOTES**
- ALL CONDUIT BETWEEN DC MANHOLE AND JUNCTION AND BETWEEN JUNCTION BOXES TO BE 2" RIGID METAL CONDUIT. CONDUIT BETWEEN JUNCTION BOXES AND WALL PACK FIXTURE TO BE 3/4" RIGID METAL CONDUIT.
 - ALL CABLES BETWEEN MANHOLE AND JUNCTION BOX TO BE 3-#6 RHW-2 AND 1-#8 RHW-2 GROUND
 - ALL CABLES BETWEEN MANHOLE AND JUNCTION BOX AND FIXTURE TO BE 2-#10 RHW-2 AND 1-#8 RHW-2 GROUND

LT- 13

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

WALL LIGHTING PLAN I (PART I)

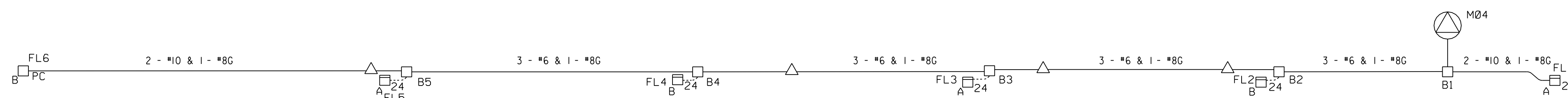
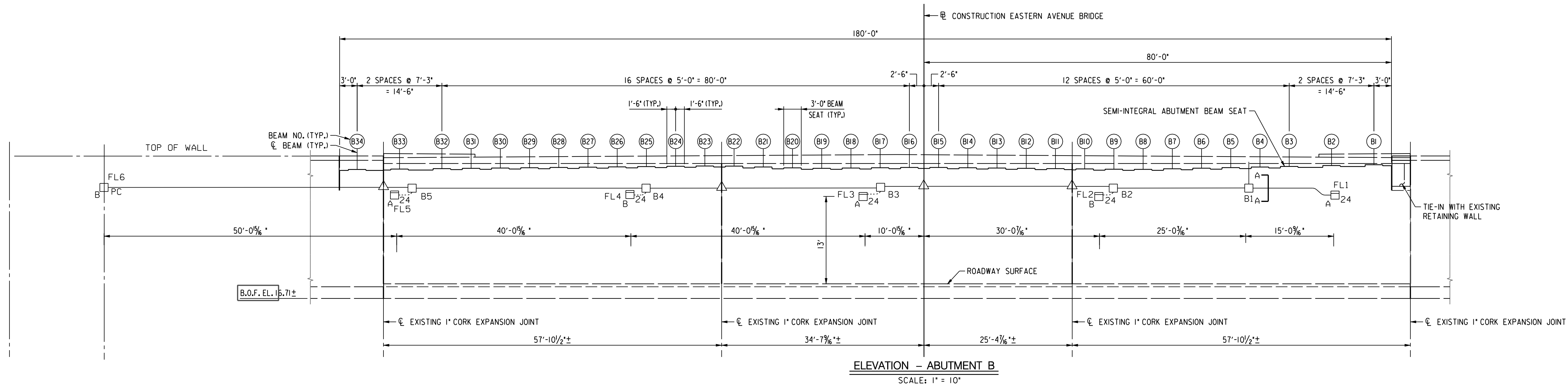
PROJECT ENG. <u> KJZ </u>
DESIGNED BY <u> DLS </u>
CHECKED BY <u> DLS </u>
DRAWN BY <u> KJZ </u>
PROJECT MGR. <u> KJZ </u>
DIVISION CHIEF
DATE _____
FILE _____

Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C.

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO	DESCRIPTION	NAME	DATE
REVISIONS			

P:\30404\Lighting\Plan\Package (N)\LT-0005-30140.dgn \$PENTBL\$\$
 Thursday, April 30, 2009 AT 09:50 AM \$PLTDRV\$\$



- LEGEND**
- NEMA 4 JUNCTION BOX
 - 24 250 WATT HPS WALL PACK FIXTURE 24 HOUR OPERATION
 - PC 250 WATT HPS WALL PACK FIXTURE WITH PHOTOCELL
 - △ EXPANSION/DEFLECTION FITTING (SHALL MEET REQUIREMENTS OF 621.10 AND 820.13)
 - RIGID METAL CONDUIT (2")
 - RIGID METAL CONDUIT (3/4")

- NOTES**
- ALL CONDUIT BETWEEN DC MANHOLE AND JUNCTION AND BETWEEN JUNCTION BOXES TO BE 2" RIGID METAL CONDUIT. CONDUIT BETWEEN JUNCTION BOXES AND WALL PACK FIXTURE TO BE 3/4" RIGID METAL CONDUIT.
 - ALL CABLES BETWEEN MANHOLE AND JUNCTION BOX TO BE 3-#6 RHW-2 AND 1-#8 RHW-2 GROUND
 - ALL CABLES BETWEEN MANHOLE AND JUNCTION BOX AND FIXTURE TO BE 2-#10 RHW-2 AND 1-#8 RHW-2 GROUND

LT-14

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

WALL LIGHTING PLAN II (PART I)

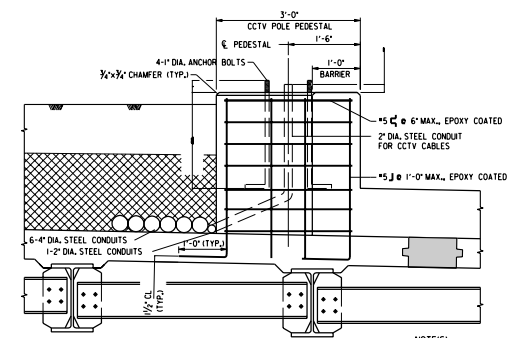
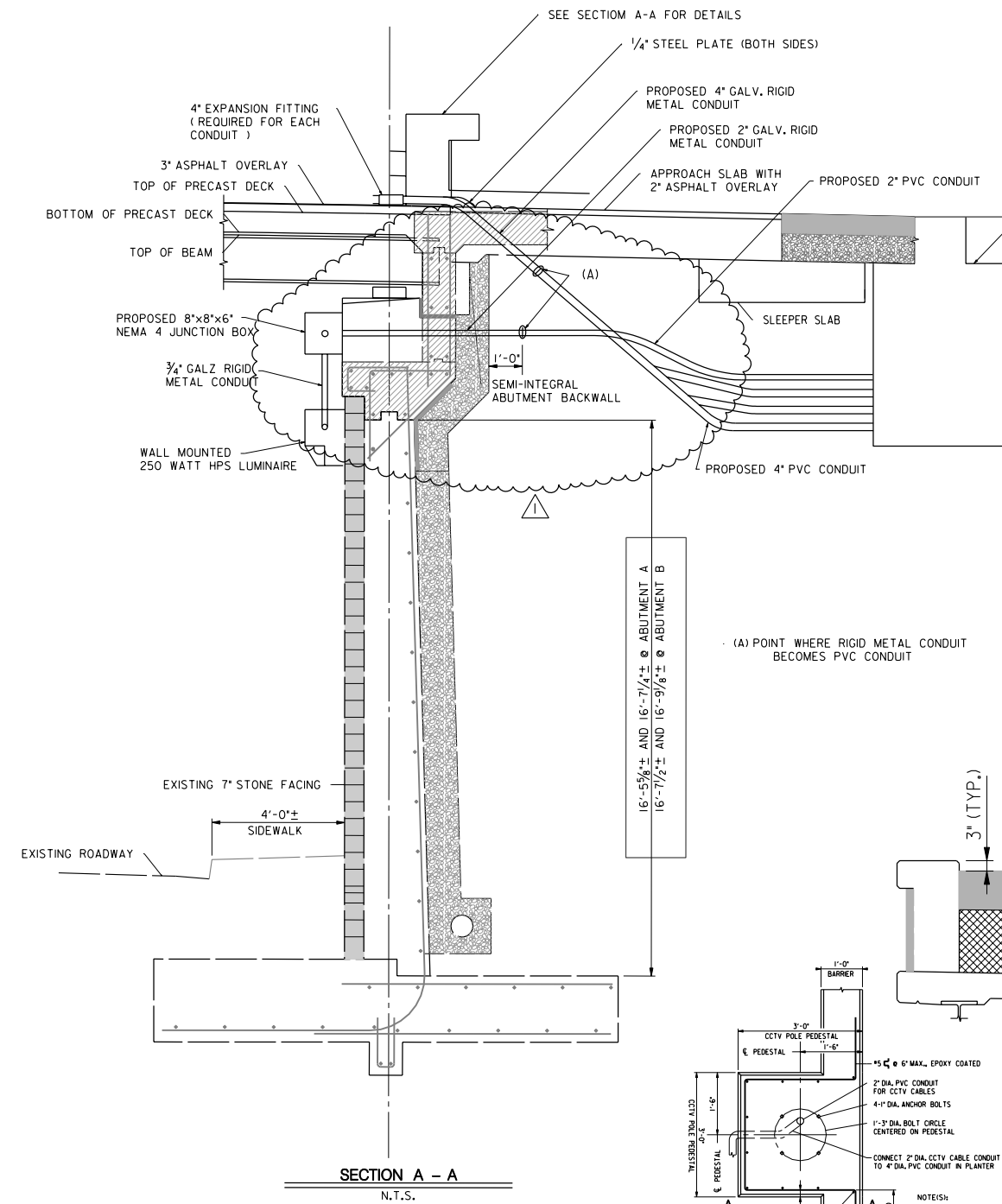
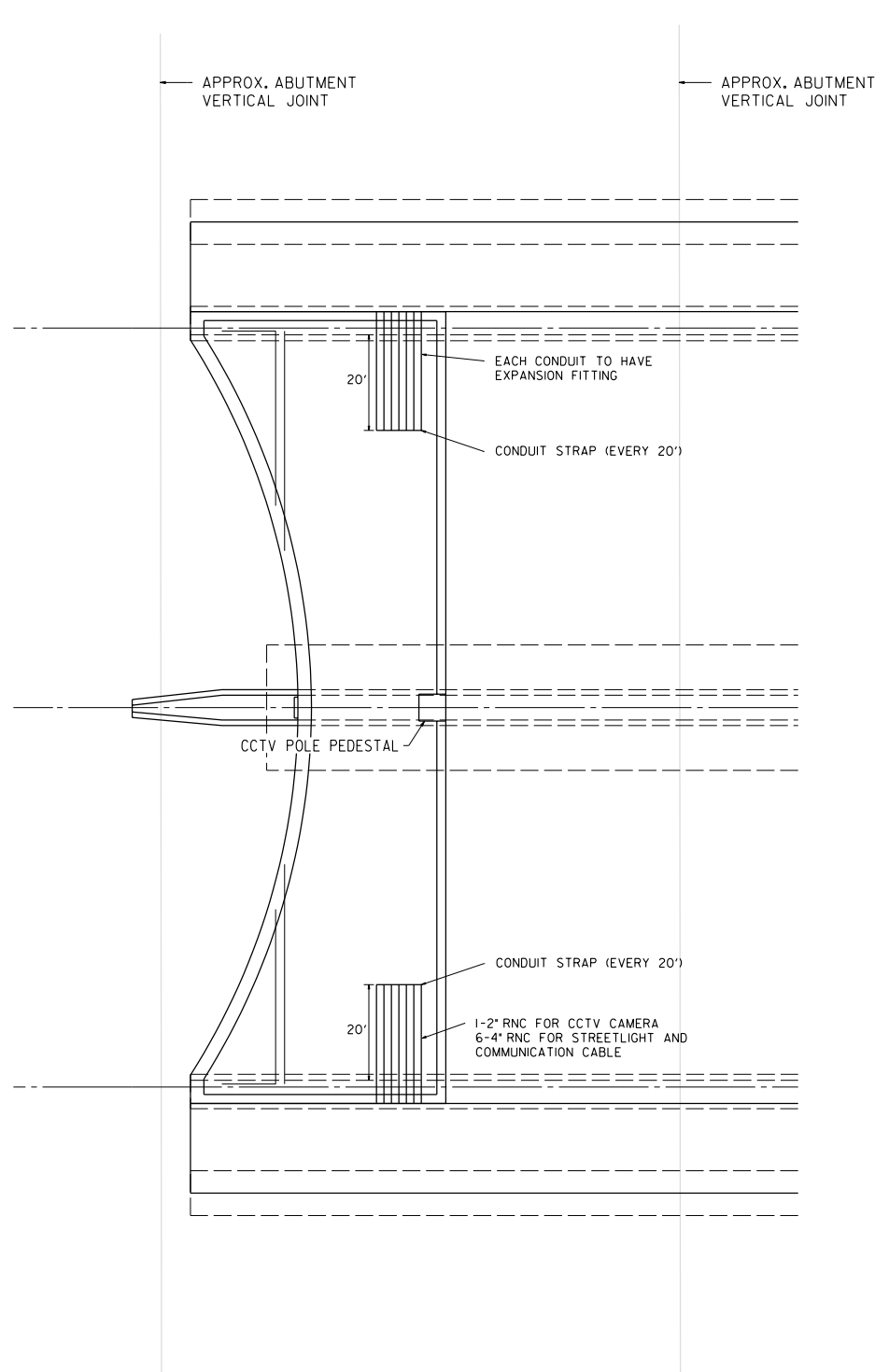
PROJECT ENG. _____ KJZ
DESIGNED BY _____ DLS
CHECKED BY _____ DSL
DRAWN BY _____ KJZ
PROJECT MGR. _____ KJZ
DIVISION CHIEF
DATE _____
FILE _____

Precision Systems, Inc.
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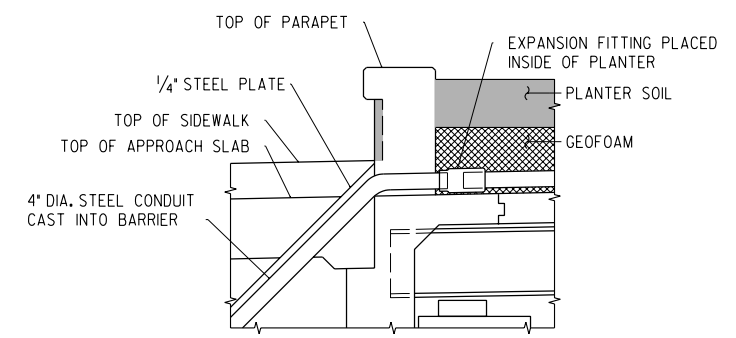
GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO	DESCRIPTION	NAME	DATE
REVISIONS			

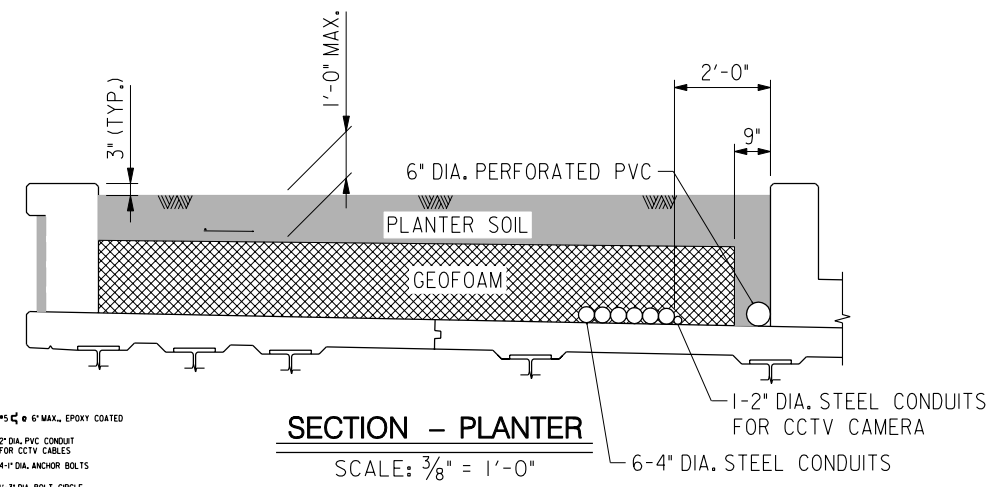
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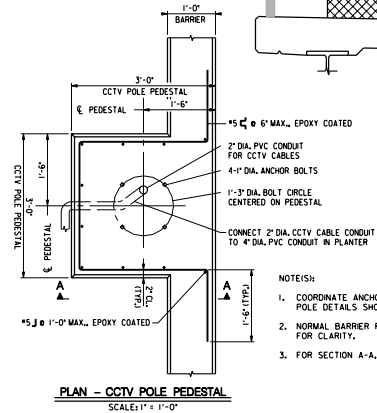
SECTION A-A - CCTV POLE PEDESTAL
SCALE: 1" = 1'-0"



SECTION A-A - CONDUIT THRU BARRIER
SCALE: 1/2" = 1'-0"



SECTION - PLANTER
SCALE: 3/8" = 1'-0"



PLAN - CCTV POLE PEDESTAL
SCALE: 1" = 1'-0"

- NOTE(S):
- COORDINATE ANCHOR BOLT LOCATIONS WITH CCTV POLE DETAILS SHOWN IN "L1" DRAWINGS.
 - NORMAL BARRIER REINFORCING STEEL NOT SHOWN FOR CLARITY.
 - FOR SECTION A-A, SEE THIS SHEET.

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**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

WALL LIGHTING PLAN III (PART I)

PROJECT ENG.	KJZ
DESIGNED BY	DLB
CHECKED BY	DLB
DRAWN BY	KJZ
PROJECT MGR.	KJZ
DIVISION CHIEF	
DATE	_____
FILE	_____

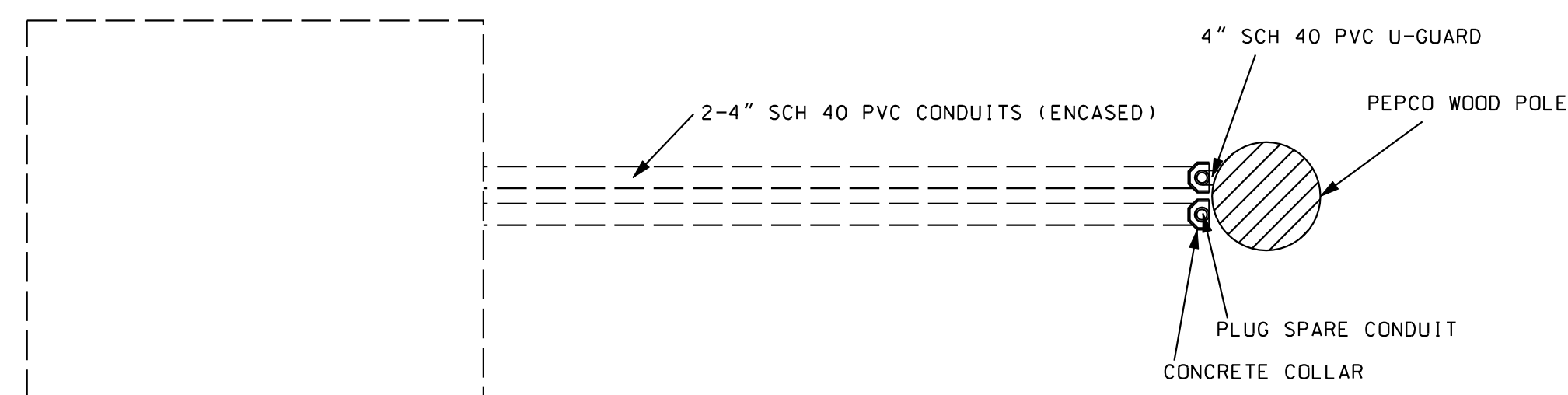
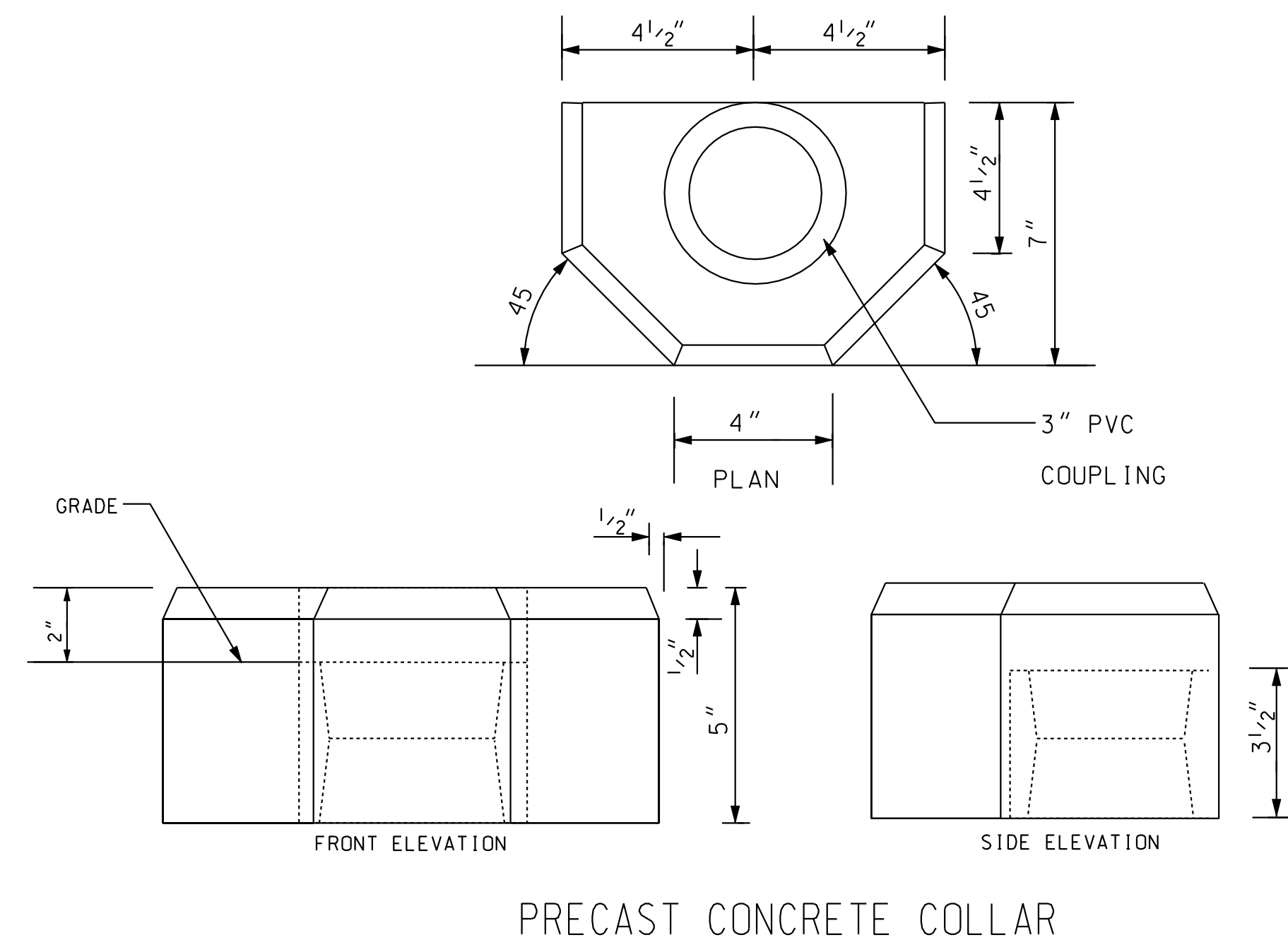
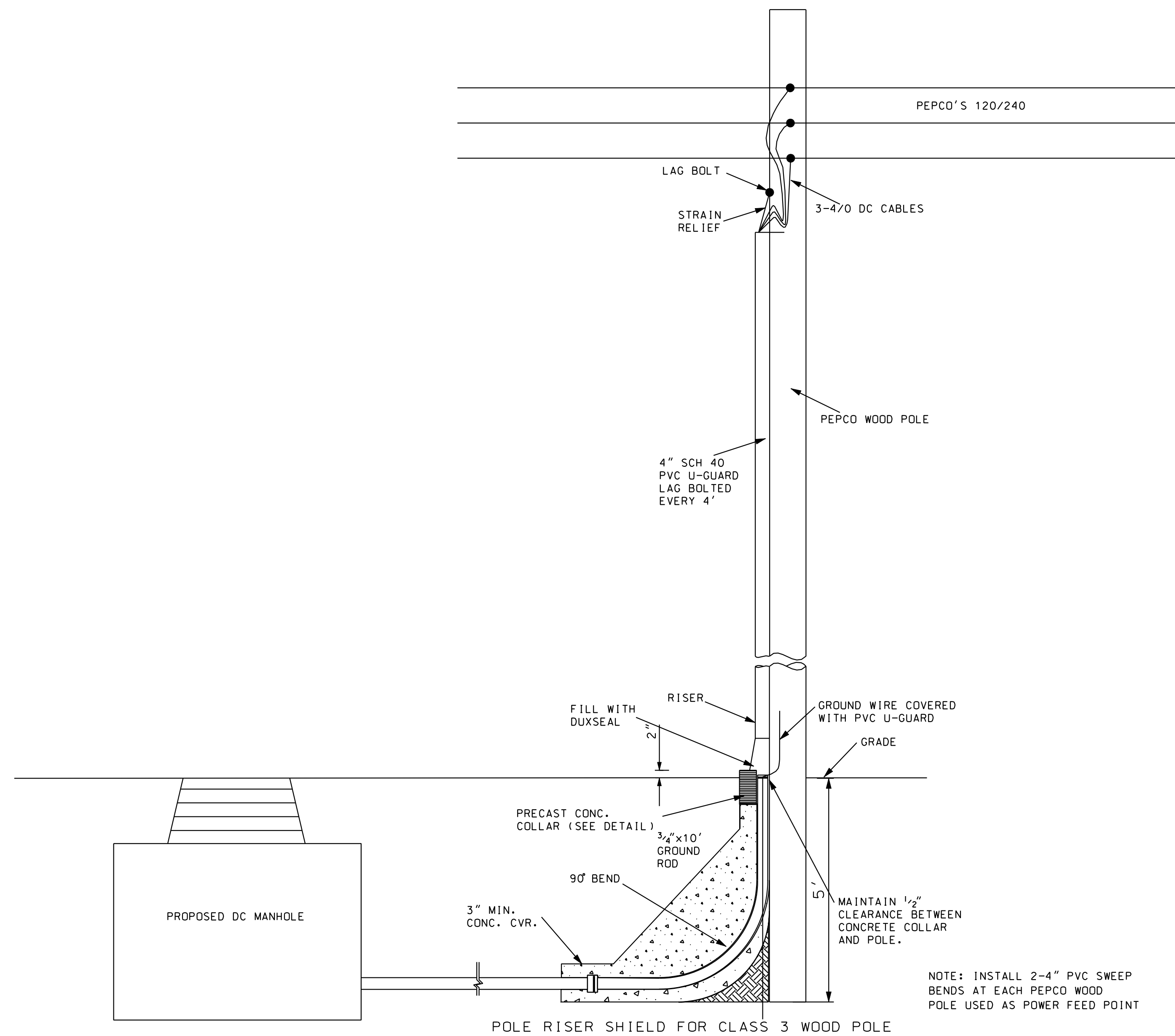
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CONSULTING ENGINEERS
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO	DESCRIPTION	NAME	DATE
1	CONDUIT TO GO THROUGH ABUTMENT SEAT INSTEAD OF BACKWALL	AYY	05-04-10
REVISIONS			

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 Tuesday, May 04, 2010 AT 12:13 PM
 \$PENTBL\$\$
 \$PLDRVS\$

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	190	242



NOTE: INSTALL 2-4\"/>

LT-16

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING UNDERGROUND PLAN (PART I)

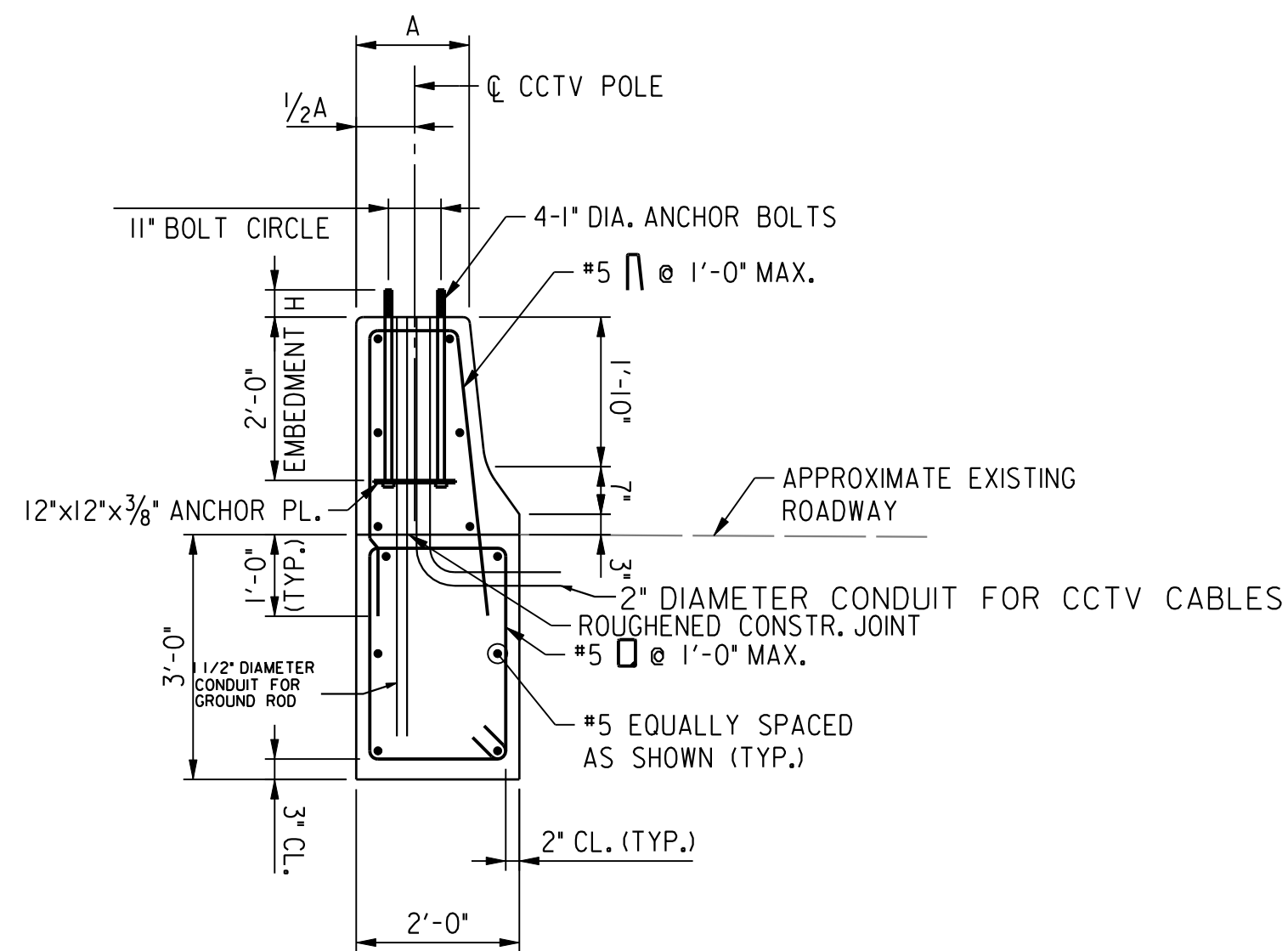
PROJECT ENG. <u> </u> KJZ	DESIGNED BY <u> </u> DLS
CHECKED BY <u> </u> DSL	DRAWN BY <u> </u> KJZ
PROJECT MGR. <u> </u> KJZ	DIVISION CHIEF
DATE <u> </u>	FILE <u> </u>

Precision Systems, Inc.
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WASHINGTON, D.C.

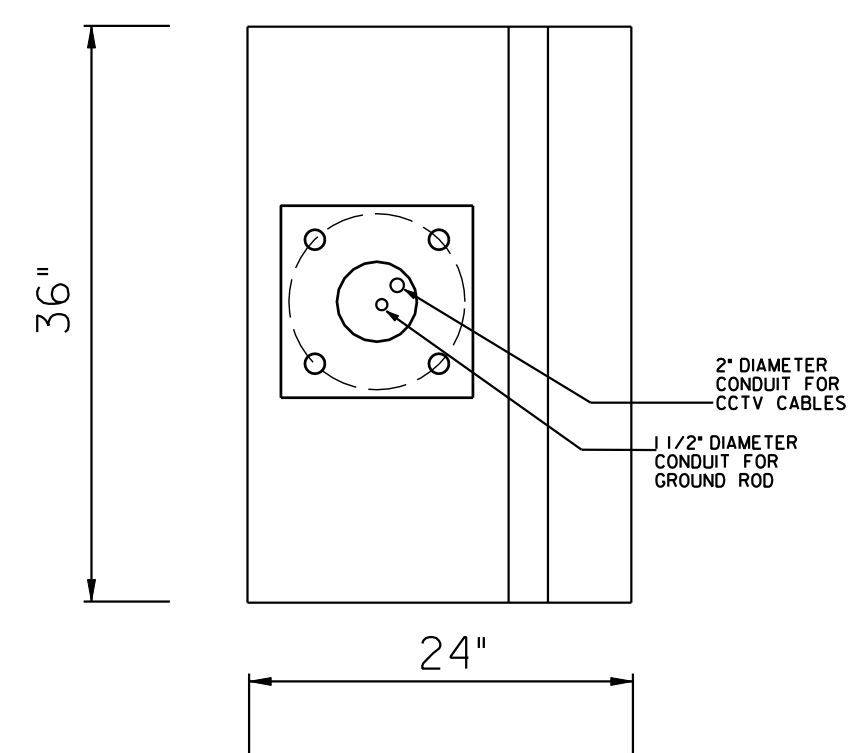
GREENHORNE & O'MARA
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6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO	DESCRIPTION	NAME	DATE
REVISIONS			

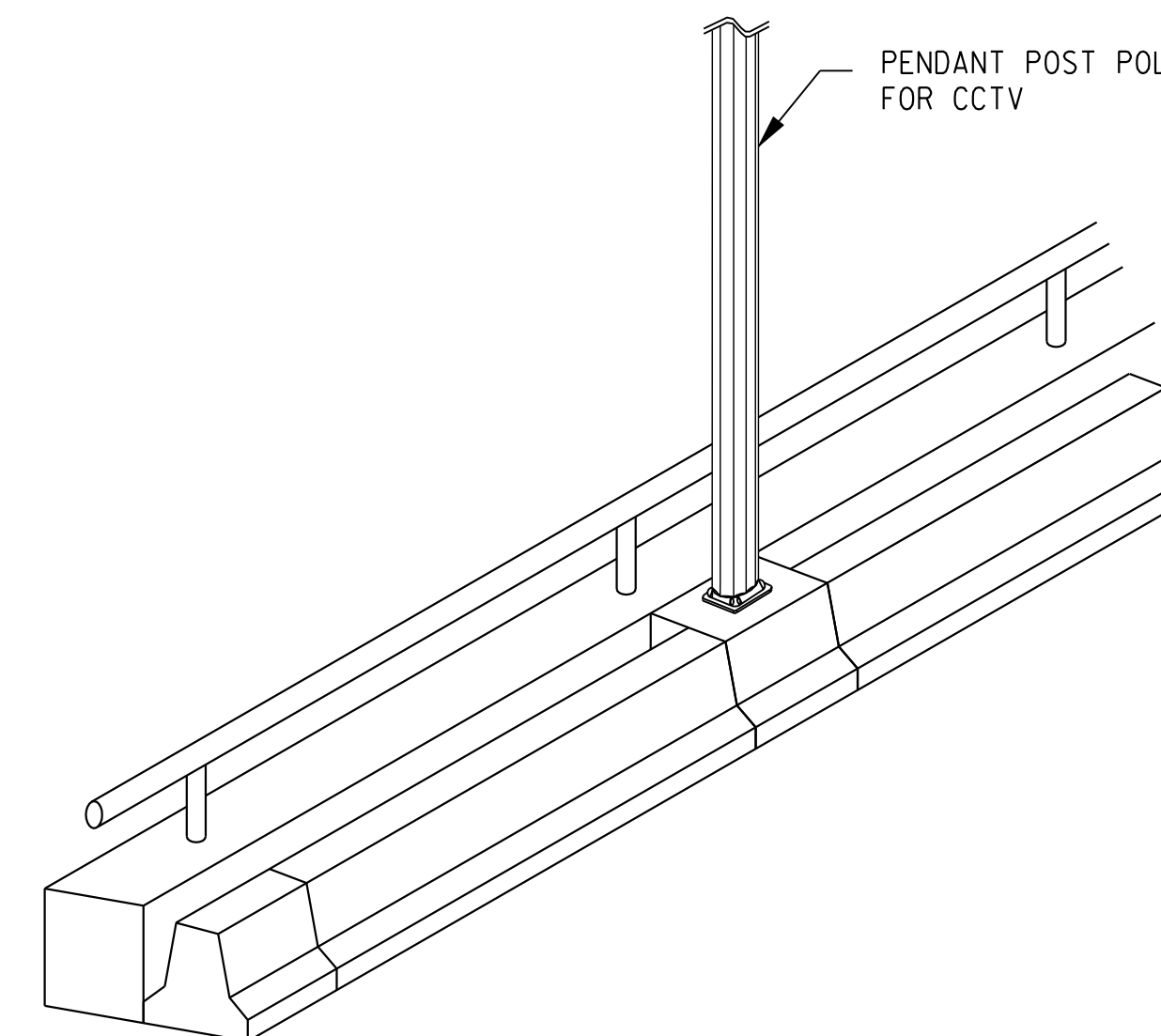
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 Wednesday, April 23, 2003 AT 04:47 PM \$PLTDRV\$\$



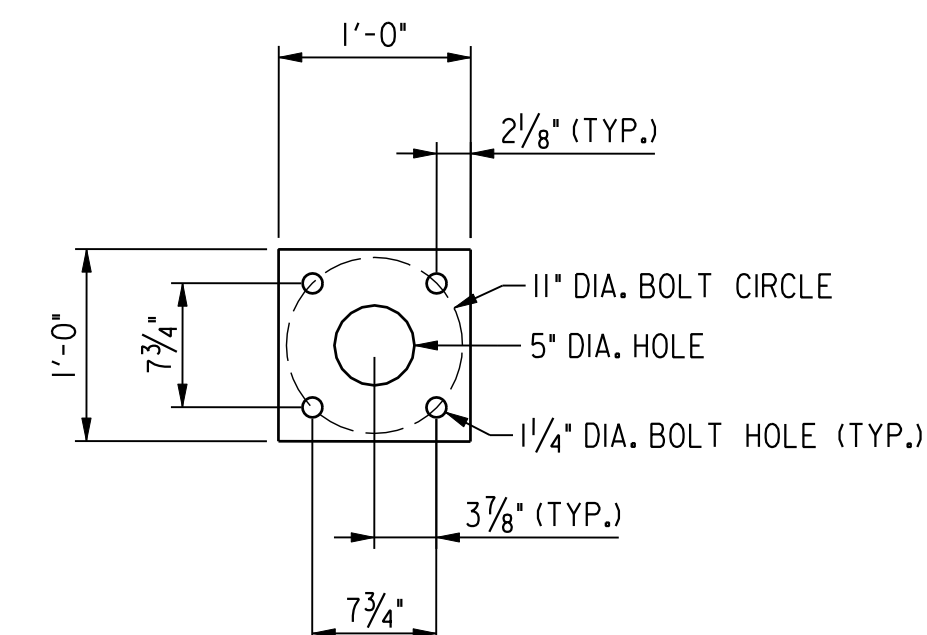
SECTION - TEMPORARY CCTV BARRIER
SCALE: 1/2" = 1'-0"



SECTION - TEMPORARY CCTV CONDUIT DETAIL
SCALE: 1" = 1'-0"



TEMPORARY CCTV POLE LOCATION
N.T.S



ANCHOR PLATE DETAIL
SCALE: 1" = 1'-0"

NOTE(S):

1. THE TEMPORARY CCTV POLE BARRIER SHALL BE CONNECTED TO THE ADJACENT TEMPORARY CONCRETE BARRIER BY THE SAME METHOD USED TO CONNECT ADJACENT SECTIONS OF TEMPORARY BARRIER.
2. THE TEMPORARY CCTV POLE BARRIER SHALL HAVE THE SAME FRONT FACE SAFETY SHAPE AS THE ADJACENT TEMPORARY CONCRETE BARRIER. DIMENSION "A" SHALL BE DETERMINED THE CONTRACTOR BASED ON THE FRONT FACE SAFETY SHAPE SELECTED FOR THE TEMPORARY BARRIER.
3. THE LENGTH OF THE TEMPORARY CCTV POLE BARRIER AND FOOTING SHALL BE 3'-0". THE TEMPORARY CCTV POLE SHALL BE CENTERED ALONG THE LENGTH OF THE TEMPORARY CCTV POLE BARRIER.
4. ANCHOR BOLT EXPOSED HEIGHT, DIMENSION "H", SHALL BE DETERMINED BY CONTRACTOR BASED ON CCTV POLE DETAILS.
5. ANCHOR BOLTS SHALL BE UNPAINTED AASHTO M314 GRADE 55 SI GALVANIZED STEEL. NUTS SHALL BE UNPAINTED ASTM A563 GRADE DH GALVANIZED STEEL. WASHERS SHALL BE UNPAINTED ASTM F436 GALVANIZED STEEL. ALL HARDWARE SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A153. ANCHOR PLATE SHALL BE AASHTO M270 GRADE 50 STEEL.
6. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CCTV CAMERA DURING EACH PHASE OF CONSTRUCTION. REFER TO THE MAINTENANCE OF TRAFFIC PLANS FOR DETAILS ON THE CONSTRUCTION PHASING.
7. FOR PHASES 2A AND 2B, THE CCTV CAMERA SHALL BE LOCATED ON TOP OF THE TEMPORARY CONCRETE TRAFFIC BARRIER AT THE LOCATION SPECIFIED ON SGOI USING THE FOUNDATION AND DETAIL PROVIDED ON THIS SHEET.
8. FOR PHASES 4 AND 5, THE LOCATION CCTV CAMERA SHALL BE MOUNTED ON A 28-FOOT PENDANT POST POLE ON A TEMPORARY, PORTABLE CONCRETE BASE WHICH SHALL BE LOCATED ON THE NEWLY COMPLETED BRIDGE AT LEAST 30 FEET AWAY FROM ANY ACTIVE TEMPORARY LANE.
9. FOR ALL OTHER PHASES WHERE NEITHER THE EXISTING OR PROPOSED LOCATIONS ARE AVAILABLE, THE CONTRACTOR MAY MOUNT THE CCTV CAMERA ON A 28-FOOT PENDANT POST POLE ON A TEMPORARY, PORTABLE CONCRETE BASE BEHIND THE TEMPORARY CONCRETE TRAFFIC BARRIER AND AWAY FROM TRAFFIC.

LT-17

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.**

CCTV PLAN DETAILS (TEMPORARY)

PROJECT ENG. <u> KJZ </u>
DESIGNED BY <u> DLS </u>
CHECKED BY <u> DLS </u>
DRAWN BY <u> KJZ </u>
PROJECT MGR. <u> KJZ </u>
DIVISION CHIEF
DATE <u> </u>
FILE <u> </u>

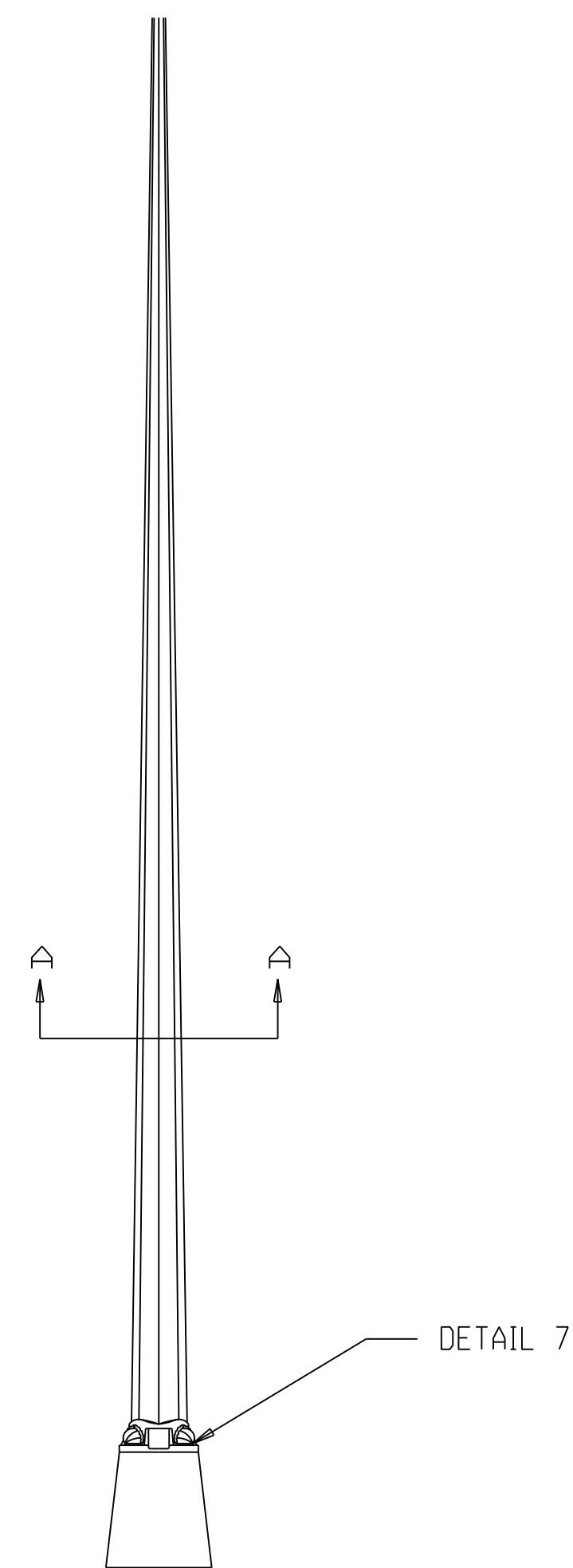
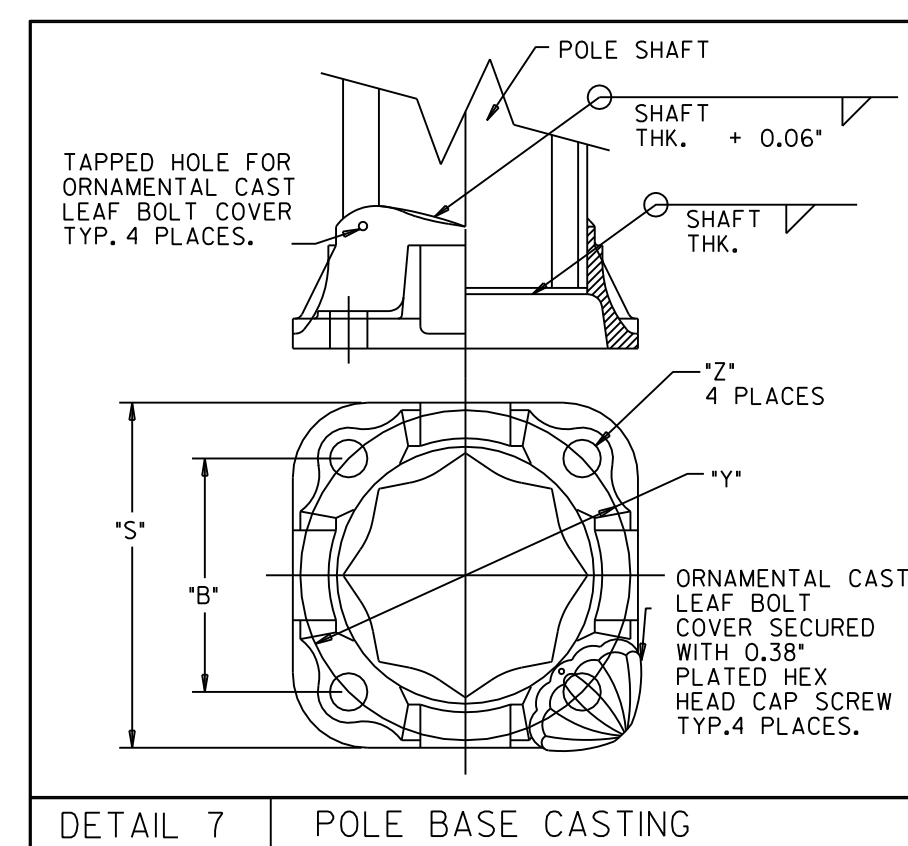
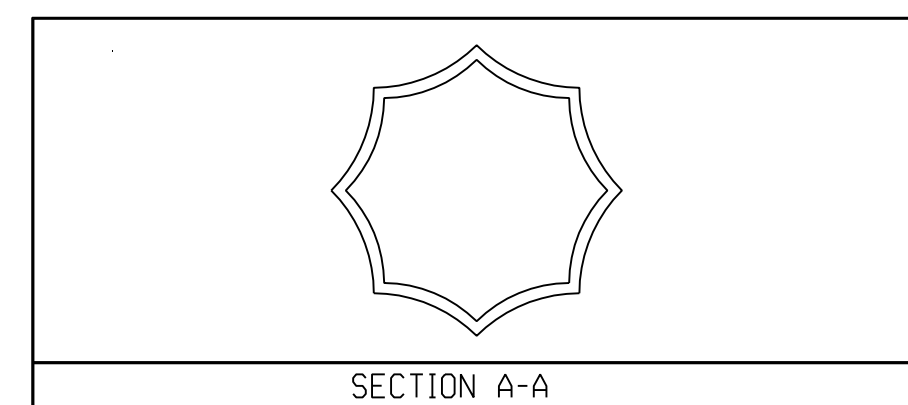
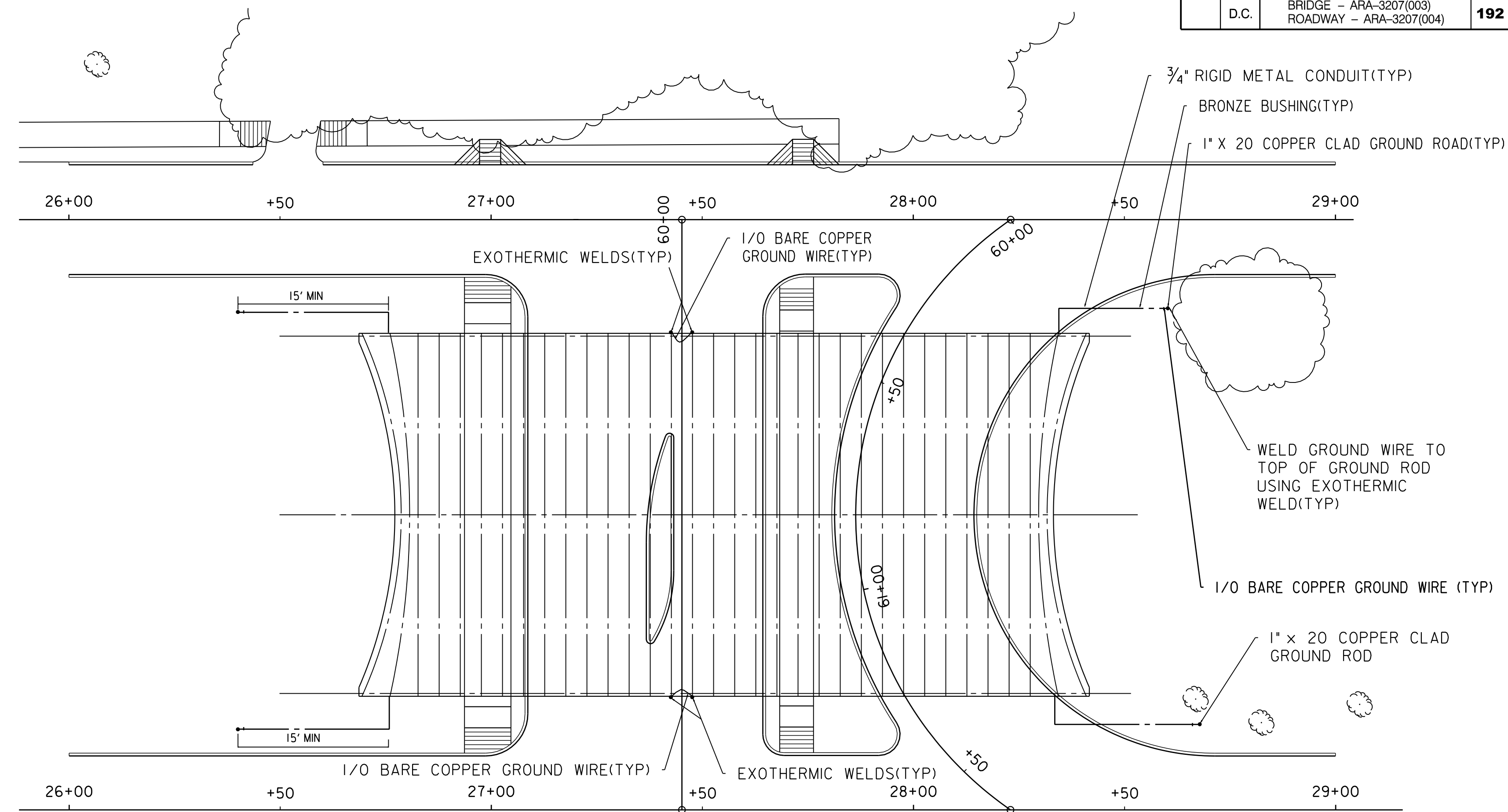
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WASHINGTON, D.C.

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GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
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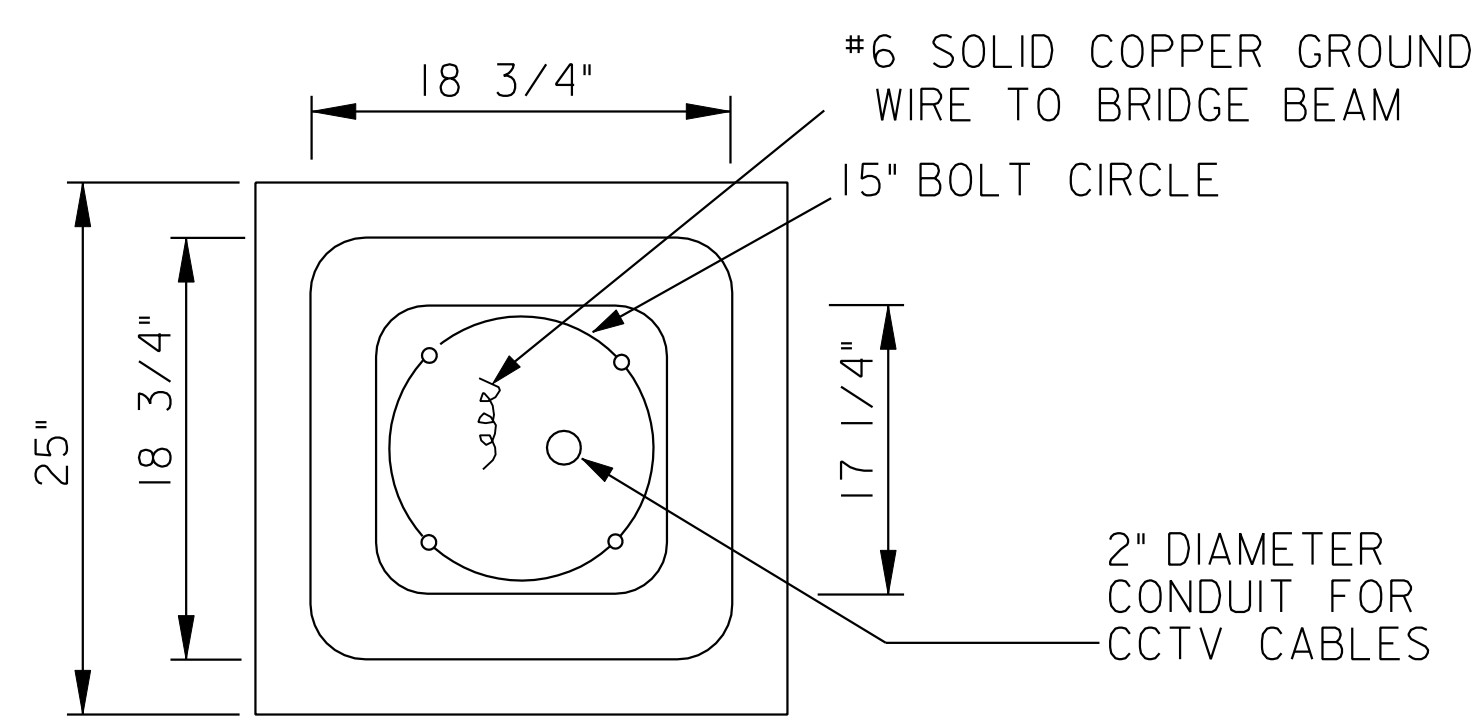
NO	DESCRIPTION	NAME	DATE
REVISIONS			

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MOUNTING HEIGHT FROM POLE BASE CASTING (FT)	LUMINAIRE ARM DATA		POLE TUBE		POLE BASE CASTING				ANCHOR BOLT			TRANSFORMER BASE	FOUNDATION BOLT CIRCLE (IN)			
	SINGLE ARM SPAN (FT)	TWIN ARM SPANS (FT)	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THICK (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	BOLT SQUARE "B" (IN)	HOLE "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "M" (IN)	STEEL	WITH T-BASE (*)
30	8	8	8.00	4.01	28.50	11	11.50	11.00	7.75	1.25	1.00	36.00	4.00	6.00	YES	15.00

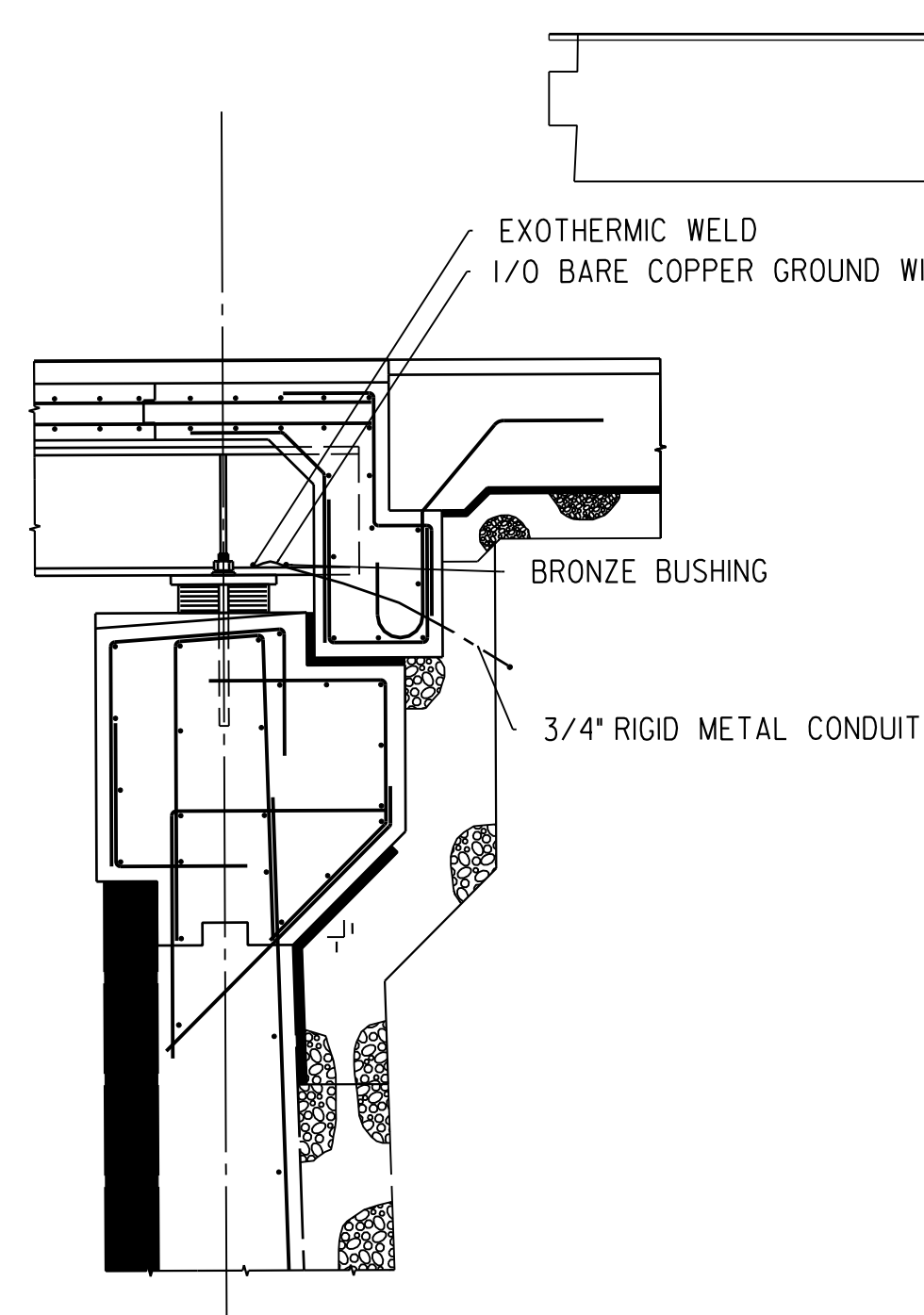


PENDANT POST DETAILS



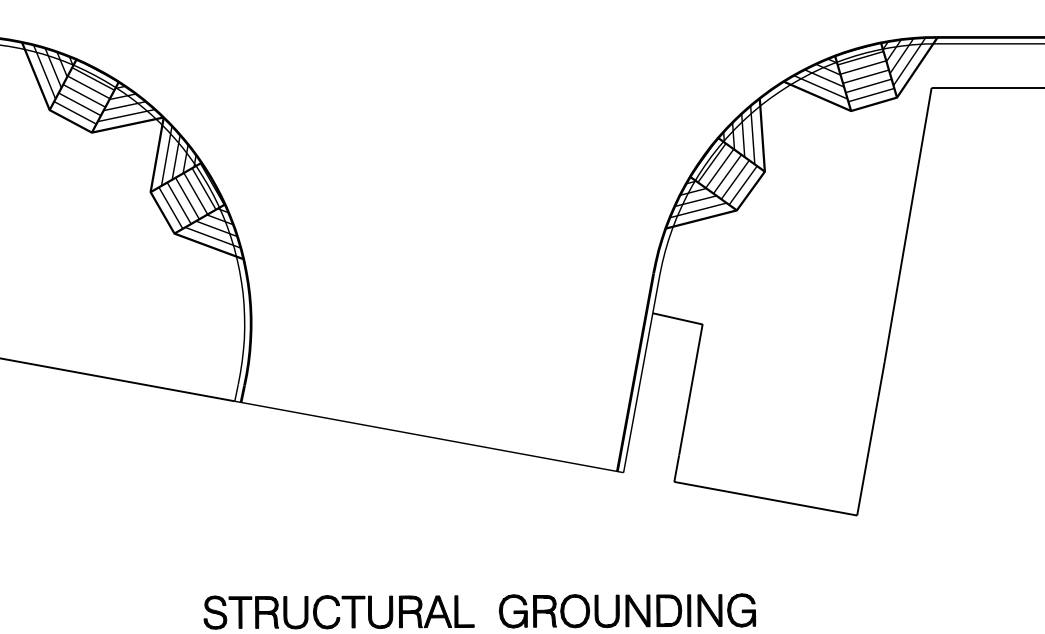
SECTION A-A

NTS
CAP DETAIL FOR PENDANT POST WITH CCTY CAMERA



ABUTMENT GROUNDING DETAIL

N.T.S



STRUCTURAL GROUNDING

1" = 20'

NOTES

1. CONTRACTOR TO INSTALL STRUCTURAL GROUNDING AS SOON AS THE BRIDGE STEEL IS PUT IN PLACE.
2. ALL EXOTHERMIC WELDS TO BE COVERED WITH ELECTRICAL VARNISH.
3. ALL GROUNDING MATERIAL TO BE PROTECTED AFTER BEING INSTALLED.
4. ALL STRUCTURAL GROUNDING TO MEET THE REQUIREMENTS OF 621.05.
5. ALL GROUND RODS TO BE TESTED, IF THE EARTH RESISTANCE MEASUREMENT EXCEEDS 25 OHMS, THEN A 2ND ROD IS TO BE INSTALLED AND TESTED.

LT-18

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

CCTV POLE DETAILS (FINAL)
AND STRUCTURAL GROUNDING PLAN

PROJECT ENG. KJZ
DESIGNED BY DLS
CHECKED BY DSL
DRAWN BY KJZ
PROJECT MGR. KJZ

DIVISION CHIEF

DATE _____
FILE _____

GREENHORNE & O'MARA
CONSULTING ENGINEERS
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO	DESCRIPTION	NAME	DATE
REVISIONS			

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	193	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

GENERAL NOTES:

- ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIAL SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE CCTV CAMERA SHOULD BE MAINTAINED IN ALL PHASES AND CAN BE RELOCATED ON THE FINAL STAGE.
- THE CONTRACTOR MUST COORDINATE ANY RELOCATION OF CCTV EQUIPMENT AND CABLE WITH DDOT.
- THE COMMUNICATION MUST BE MAINTAINED. DDOT MUST BE NOTIFIED 36 HOURS PRIOR TO ANY INSTALLATION OF COMMUNICATION CABLE.

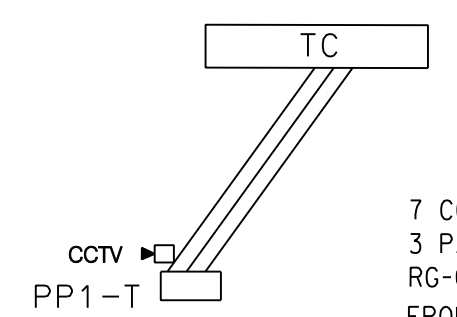
REMOVAL NOTES:

- REMOVE EXISTING TRAFFIC SIGNAL POLE (ANY TYPE).
- REMOVE EXISTING TRAFFIC SIGNAL HEAD(S).
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD(S).
- REMOVE EXISTING TRAFFIC SIGN(S)
- REMOVE EXISTING PENDANT POST POLE.
- REMOVE EXISTING CCTV CAMERA.

INSTALLATION NOTES:

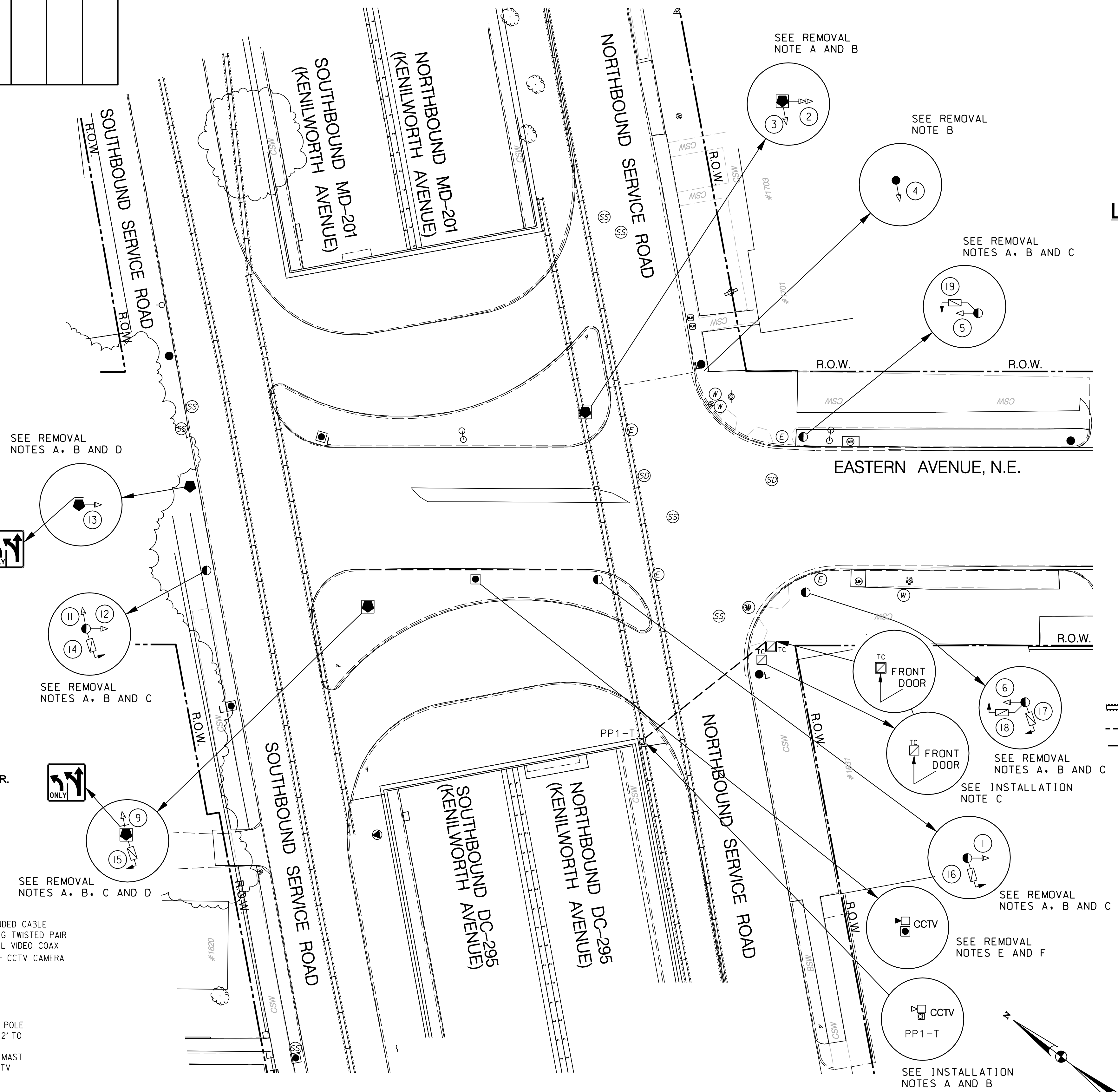
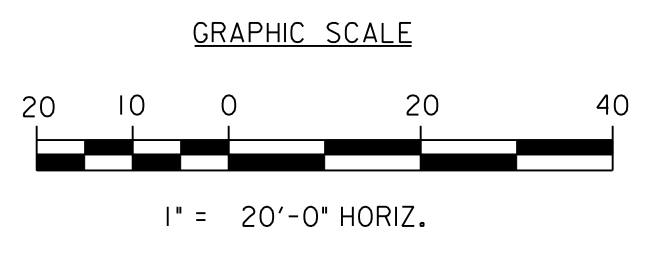
- INSTALL CCTV CAMERA.
- INSTALL 28-FOOT PENDANT POST POLE MOUNTED ON A PCC FOUNDATION WITH THE SAME SAFETY SHAPE AS THE F-SHAPE BARRIER.
- RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET ONTO A TEMPORARY, PORTABLE, CONCRETE BASE.

CCTV CAMERA CABLE SCHEMATIC



7 CONDUCTOR 14 AWG STRANDED CABLE
 3 PAIR DIRECT BURIAL 19 AWG TWISTED PAIR
 RG-6 FLOODED DIRECT BURIAL VIDEO COAX
 FROM POWER SUPPLY - TC - CCTV CAMERA
 COMPOSITE CABLE

- NOTES:
- MOUNT POWER SUPPLY ON POLE AT APPROPRIATE LOCATION 12" TO 14" FROM GROUND.
 - MOUNT CAMERA DOME ON MAST ARM AS IS SPECIFIED ON CCTV MOUNTING DETAILS (DDOT STANDARD DRAWING).



LEGEND:

- TC EXISTING TRAFFIC SIGNAL CONTROLLER
- TC EXISTING TRAFFIC SIGNAL CONTROLLER WITH MODEL 336SS CABINET ON A TEMPORARY, PORTABLE, CONCRETE BASE
- EXISTING WOOD UTILITY POLE
- EXISTING AD-11 TRAFFIC SIGNAL POLE
- EXISTING 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE MOUNTED ON A TEMPORARY, PORTABLE, CONCRETE BASE
- EXISTING 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- L EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE
- PROPOSED 28-FOOT PENDANT POST POLE MOUNTED ON A PCC FOUNDATION WITH THE SAME SAFETY SHAPE AS THE F-SHAPE BARRIER
- CCTV □ EXISTING CCTV CAMERA
- CCTV □ PROPOSED CCTV CAMERA
- EXISTING 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- EXISTING 4 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- EXISTING 2 SECTION PEDESTRIAN SIGNAL HEAD
- ⊙ EXISTING CATCH BASIN
- ♿ EXISTING WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING GAS VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING WATER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING PEPCO ELECTRICAL MANHOLE
- EXISTING STORM DRAINAGE MANHOLE
- ▬ PCC CONSTRUCTION BARRIERS
- - - R.O.W. RIGHT OF WAY LINE
- - - 1-2" UNDERGROUND PVC CONDUIT FOR CCTV CAMERA



SG-01

SEQUENCE OF OPERATIONS DRAWING NO. TS-269-C

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		STAGE
KENILWORTH AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION		FIELD CHECKED BY KXZ/AYY
DESIGNED BY KXZ		DRAWN BY KXZ
SUBMITTED BY [Signature] PROJECT ENGINEER		REVIEWED BY AYY
DATE 4/27/09		DATE
RECOMMENDED GROUP MANAGER		DATE 12 /08
DESIGNED BY [Signature] ITS SYSTEMS SUPPORT BRANCH MANAGER		SCALE 1" = 20'
DATE 4/22/09		DATE
APPROVED [Signature] SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER		DATE
DEPUTY PROGRAM MANAGER		DATE
PROGRAM MANAGER		DATE
APPROVED BY _____		SHEET 1 OF 1
DATE _____		DRAWING NO. S-190-B



P:\301401\signal\Working-Temp\1-Eastern Ave and Kenilworth Ave, N.E.\DSC-P001-301401.dgn Wednesday, April 29, 2009 AT 12:49 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	194	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

GENERAL NOTES:

- A. ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- B. THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- C. THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- D. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED CONDUITS, MANHOLES, POLE FOUNDATIONS, AND CABINET FOUNDATION.
- E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS, TRAFFIC SIGNAL POLES, TRANSFORMER BASES, TRAFFIC SIGNAL CONTROLLER, CABINET, AND ALL MOUNTING HARDWARE.
- F. THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO DDOT TRAFFIC SIGNAL SHOP. CONTACT ALLEN HUNTLEY 72 HOURS IN ADVANCE AT (202) 576-5261 TO ARRANGE SERVICE.
- G. THE CONTRACTOR SHALL REMOVE ALL EXISTING TRAFFIC SIGNAL POLES AND HARDWARE MOUNTED ON TEMPORARY, PORTABLE, CONCRETE BASES.
- H. THE CONTRACTOR SHALL REMOVE ALL EXISTING TEMPORARY, PORTABLE, CONCRETE BASES.
- I. NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES.
- J. THE CCTV CAMERA SHOULD BE MAINTAINED IN ALL PHASES AND CAN BE RELOCATED ON THE FINAL STAGE.
- K. THE CONTRACTOR MUST COORDINATE ANY RELOCATION OF CCTV EQUIPMENT AND CABLE WITH DDOT.
- L. THE COMMUNICATION MUST BE MAINTAINED. DDOT MUST BE NOTIFIED 36 HOURS PRIOR TO ANY INSTALLATION OF COMMUNICATION CABLE.

INSTALLATION NOTES:

- A. INSTALL TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION.
- B. INSTALL TRAFFIC SIGNAL CONTROLLER CABINET.
- C. INSTALL TRAFFIC SIGNAL CONTROLLER.
- D. INSTALL 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE.
- E. INSTALL 28-FOOT PENDANT POST STREETLIGHT POLE WITH A TRANSFORMER BASE AND LUMINAIRE.
- F. INSTALL 8-FOOT MAST ARM WITH CAP AND CLAMP.
- G. INSTALL TRAFFIC SIGNAL HEAD(S).
- H. INSTALL LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD(S).
- I. INSTALL TRAFFIC SIGN(S).
- J. INSTALL CCTV CAMERA.
- K. INSTALL 28-FOOT PENDANT POST POLE WITH A TRANSFORMER BASE.

MAST ARM NOTES:

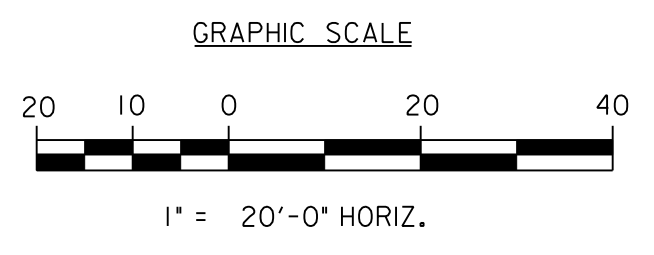
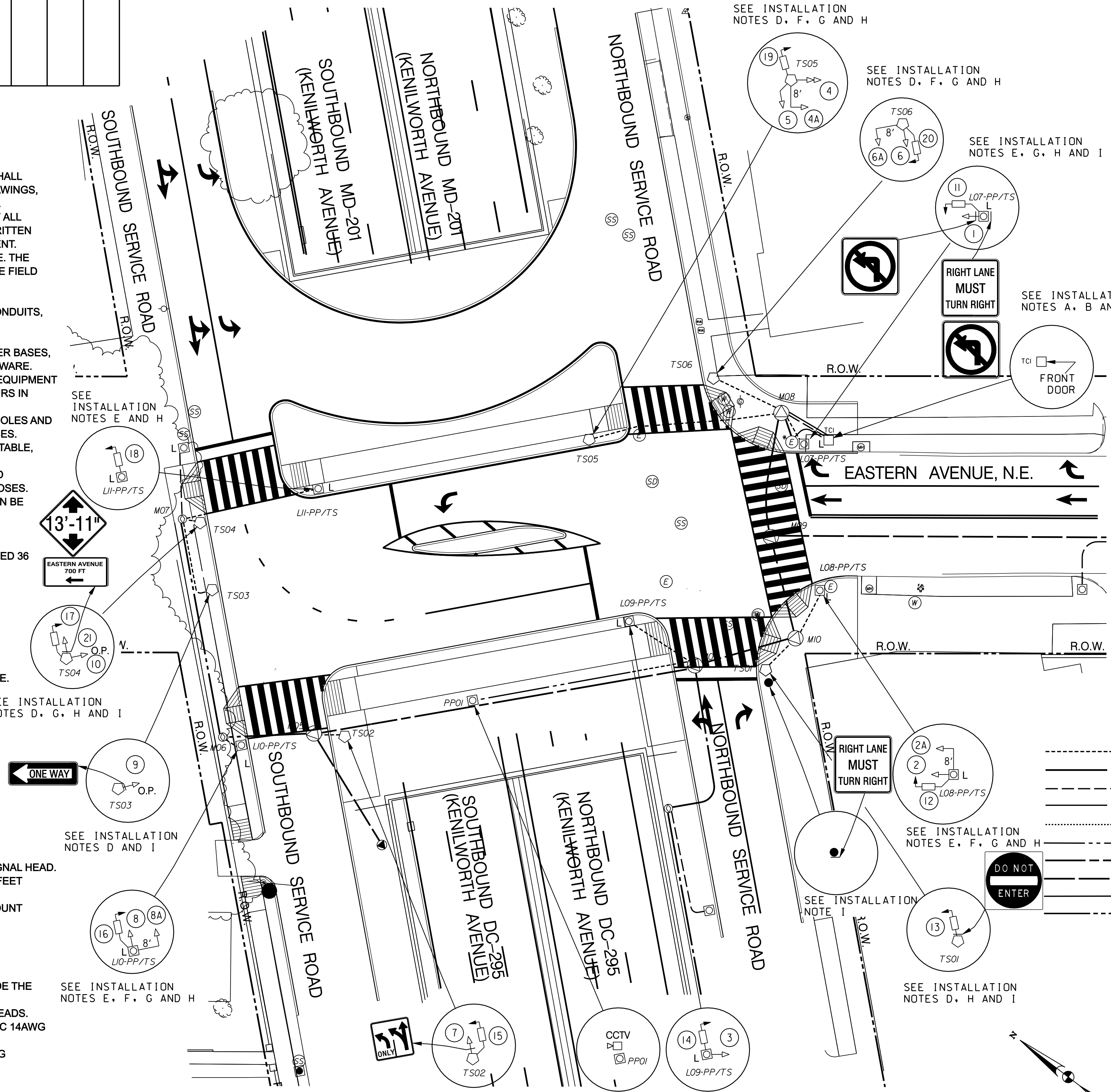
- A. A BACK PLATE SHALL BE AFFIXED TO EACH MAST ARM MOUNTED SIGNAL HEAD.
- B. THE BOTTOM OF MAST ARM MOUNTED SIGNAL HEADS SHALL BE 16 FEET ABOVE THE ROADWAY SURFACE.
- C. AN ASTRO-BRAC OR APPROVED EQUIVALENT SHALL BE USED TO MOUNT SIGNAL HEADS (2A, 4A, 6A, AND 8A) TO MAST ARMS.

CABLE NOTES:

- A. DDOT PERSONNEL WILL MAKE ALL ELECTRICAL CONNECTIONS INSIDE THE CONTROLLER CABINET. THE CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS IN TRAFFIC AND PEDESTRIAN SIGNAL HEADS.
- B. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW, UNSPLICED 7C 14AWG STRANDED CABLE TO ALL SIGNAL HEADS.
- C. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW 12 PAIR 19AWG COMMUNICATION CABLES.

LEGEND:

- TC □ PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- L □ EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
- L □ PROPOSED 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
- EXISTING PEPCO WOOD POLE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED OPTICALLY PROGRAMMABLE 3 SECTION TRAFFIC SIGNAL HEAD
- PROPOSED 4 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- PROPOSED 2-SECTION LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD
- PROPOSED 8-FOOT MAST ARM WITH CAP AND CLAMP
- CCTV □ PROPOSED CCTV CAMERA
- ▬ PROPOSED WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING CATCH BASIN
- EXISTING GAS VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING WATER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING PEPCO ELECTRICAL MANHOLE
- EXISTING STORM DRAINAGE MANHOLE
- PROPOSED LOCATION FOR PEPCO POWER CONNECTION
- PROPOSED DDOT MANHOLE (4'X4'X4')
- PROPOSED DDOT MANHOLE (3'X3'X3')
- EXISTING DDOT MANHOLE (4'X4'X4')
- PROPOSED DDOT 1-2" & 1-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 4-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 1-2" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 2-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 1-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 6-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 1-2" ELECTRICAL METAL CONDUIT
- PROPOSED DDOT 6-4" ELECTRICAL METAL CONDUIT
- EXISTING DDOT CONDUIT
- RIGHT OF WAY LINE



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PHONE: (301) 982-2800 FAX: (240) 642-3183
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APPROVED BY _____ DATE _____

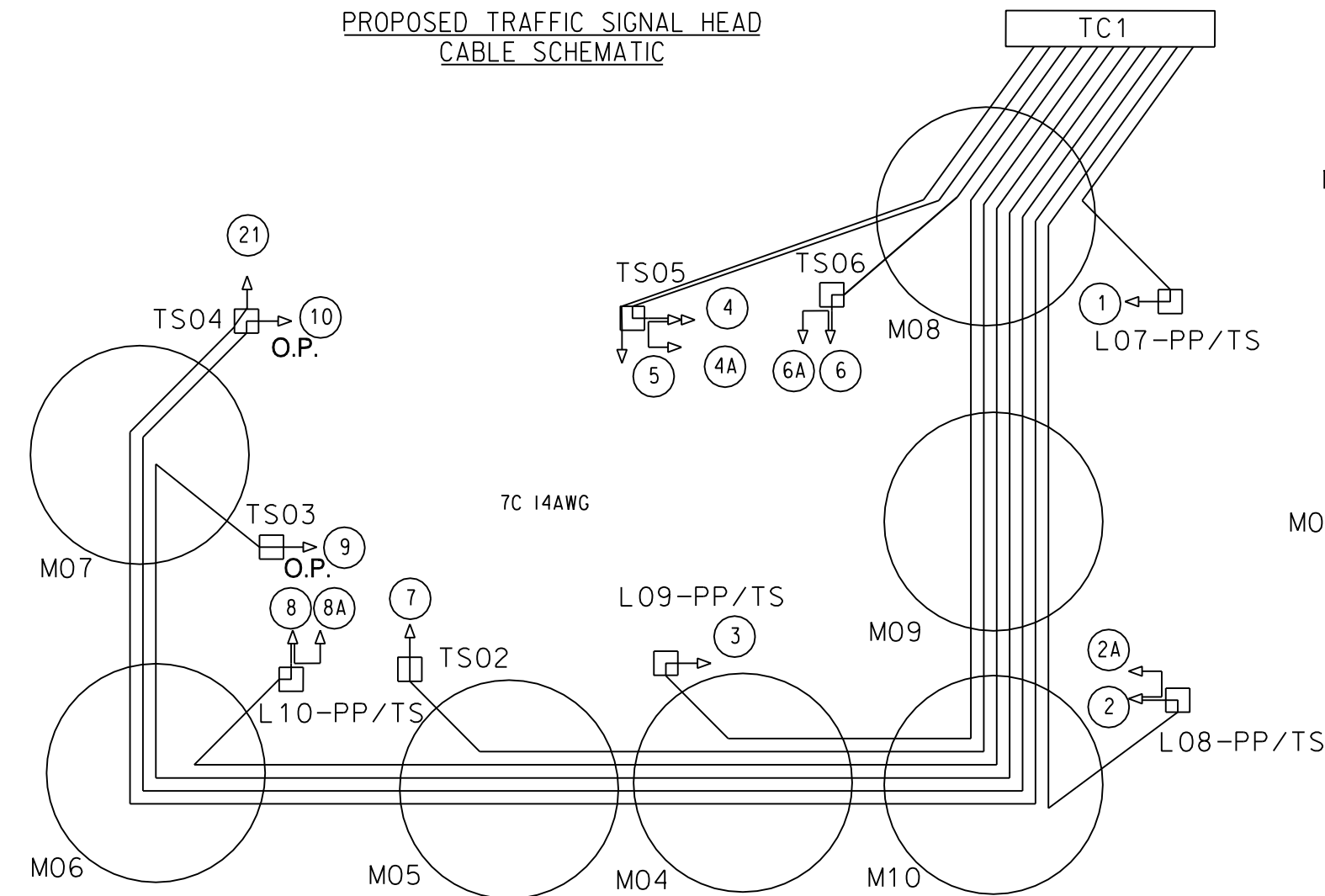
SEQUENCE OF OPERATIONS DRAWING NO. TS-269-D

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION		DESIGNED BY KXZ
DRAWN BY KXZ		REVIEWED BY AYY
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	DATE 12/08
RECOMMENDED GROUP MANAGER	DATE	SCALE 1" = 20'
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SHEET 1 OF 11
DEPUTY PROGRAM MANAGER	DATE	DRAWING NO. S-190-C
PROGRAM MANAGER	DATE	

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Wednesday, April 29, 2009 AT 12:50 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	195	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

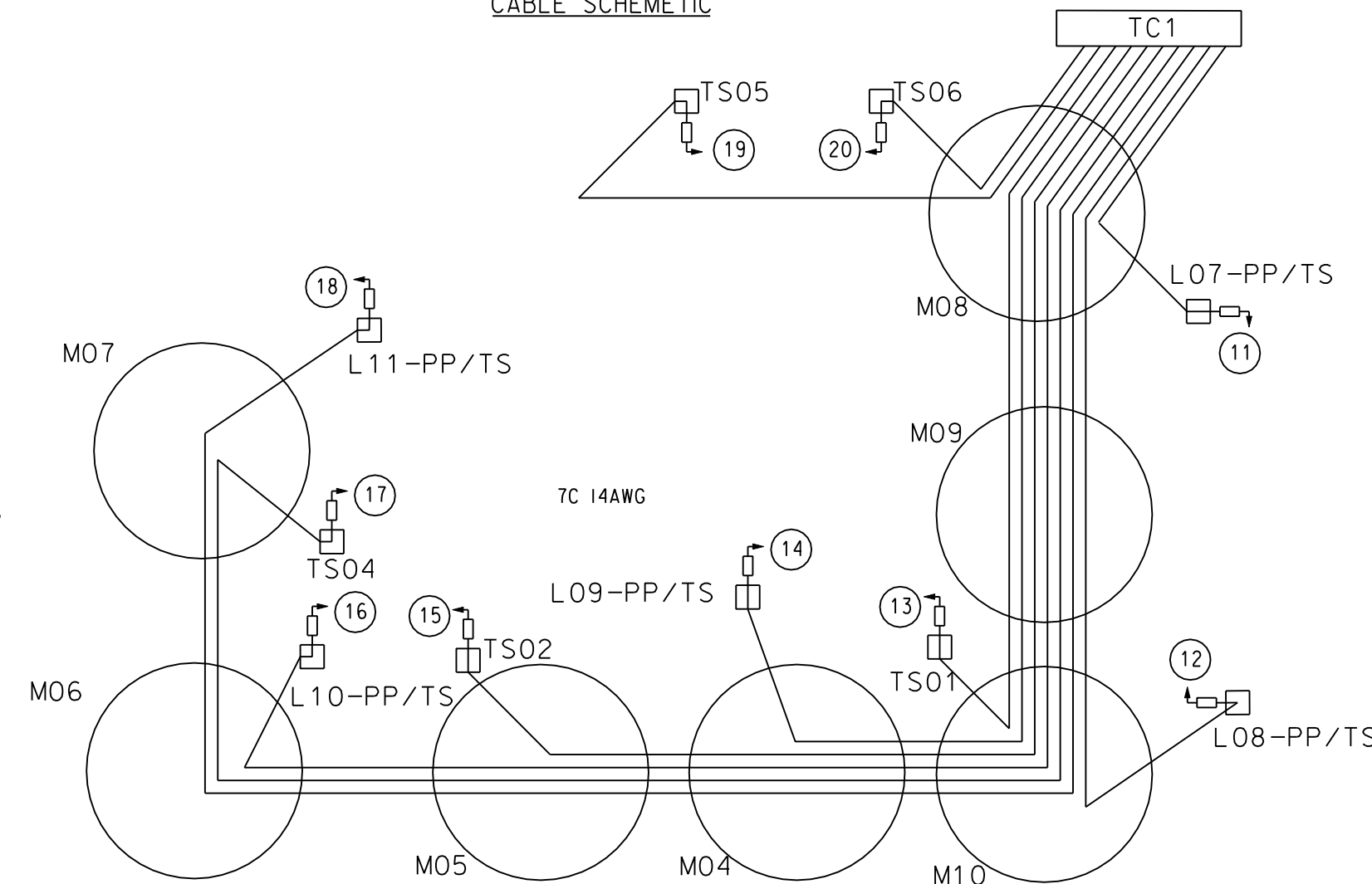


PROPOSED TRAFFIC SIGNAL HEAD CABLE ROUTING

- TC1 - M08 - TS05 - 5
- TC1 - M08 - TS05 - 4
- 4 - 4A
- TC1 - M08 - TS06 - 6
- 6 - 6A
- TC1 - M08 - L07-PP/TS - 1
- TC1 - M08 - M09 - M10 - L08-PP/TS - 2
- 2-2A
- TC1 - M08 - M09 - M10 - M04 - L09-PP/TS - 3
- TC1 - M08 - M09 - M10 - M04 - M05 - TS02 - 7
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - L10-PP/TS - 8
- 8 - 8A
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - M07 - TS03 - 9
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - M07 - TS04 - 10
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - M07 - TS04 - 21

STATION	STATUS	DESCRIPTION
TC1	PROPOSED	TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
M04	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
M05	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
M06	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (3'x3'x3')
M07	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (3'x3'x3')
M08	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
M09	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
M10	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
TS01	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS02	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS03	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS04	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS05	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS06	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
L07-PP/TS	PROPOSED	28-FOOT PENDENT POST STREETLIGHT POLE WITH LUMINAIRE AND TRANSFORMER BASE
L08-PP/TS	PROPOSED	28-FOOT PENDENT POST STREETLIGHT POLE WITH LUMINAIRE AND TRANSFORMER BASE
L09-PP/TS	PROPOSED	28-FOOT PENDENT POST STREETLIGHT POLE WITH LUMINAIRE AND TRANSFORMER BASE
L10-PP/TS	PROPOSED	28-FOOT PENDENT POST STREETLIGHT POLE WITH LUMINAIRE AND TRANSFORMER BASE
L11-PP/TS	PROPOSED	28-FOOT PENDENT POST STREETLIGHT POLE WITH LUMINAIRE AND TRANSFORMER BASE

PROPOSED PEDESTRIAN SIGNAL HEAD CABLE SCHEMATIC

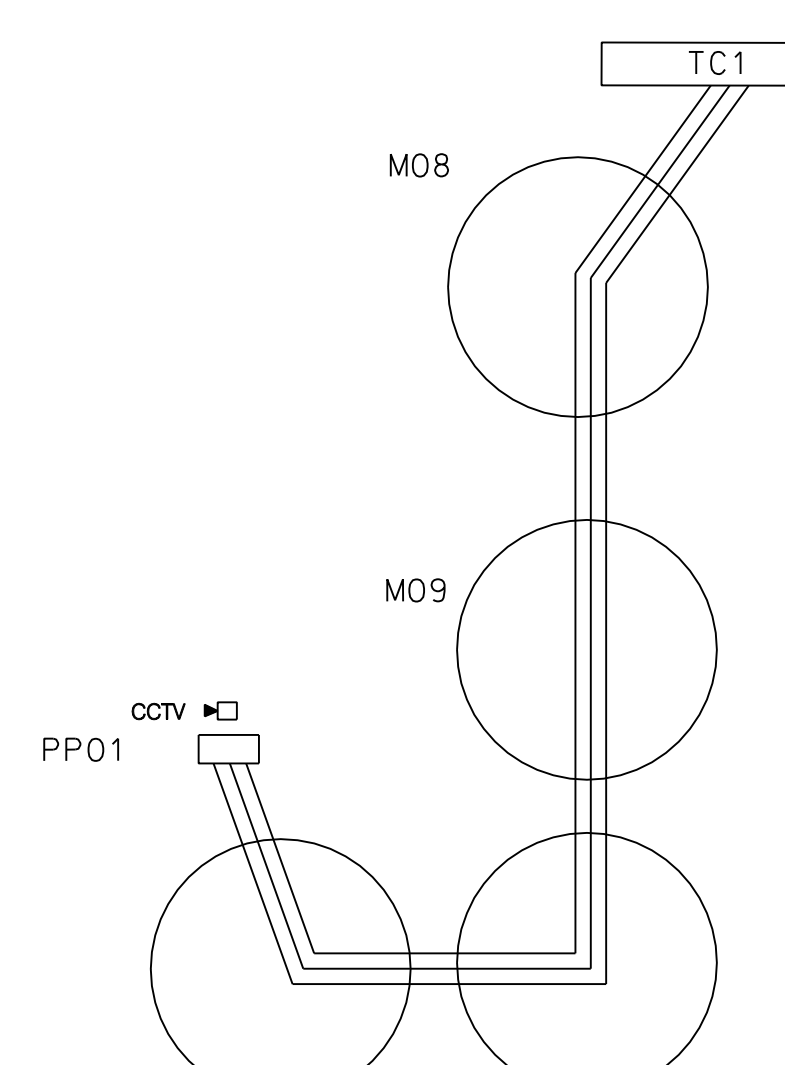


PROPOSED PEDESTRIAN SIGNAL HEAD CABLE ROUTING

- TC1 - M08 - TS05 - 19
- TC1 - M08 - TS06 - 20
- TC1 - M08 - L07-PP/TS - 11
- TC1 - M08 - M09 - M10 - L08-PP/TS - 12
- TC1 - M08 - M09 - M10 - TS01 - 13
- TC1 - M08 - M09 - M10 - M04 - L09-PP/TS - 14
- TC1 - M08 - M09 - M10 - M04 - M05 - TS02 - 15
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - L10-PP/TS - 16
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - M07 - TS04 - 17
- TC1 - M08 - M09 - M10 - M04 - M05 - M06 - M07 - L11-PP/TS - 18

LOCATION TO LOCATION	STATUS	SIZE (DIA.) (IN)	NUMBER OF CONDUITS	QUANTITY (FT)
TC1 - M08	PROPOSED	2,4	1,2	11
PI - TC1	PROPOSED	2	1	13
PI - M08	PROPOSED	4	4	10
M08 - M09	PROPOSED	4	4	41
M09 - M10	PROPOSED	4	4	34
M10 - M04	PROPOSED	4	4	34
M04 - M05	PROPOSED	4	4	125
M05 - M06	PROPOSED	4	4	29
M06 - M07	PROPOSED	4	4	72
M08 - TS05	PROPOSED	2,4	1,1	70
M08 - TS06	PROPOSED	2,4	1,1	28
M08 - L07-PP/TS	PROPOSED	2,4	1,1	15
M10 - L08-PP/TS	PROPOSED	2,4	1,1	23
M10 - TS01	PROPOSED	2,4	1,1	14
M04 - L09-PP/TS	PROPOSED	2,4	1,1	30
M05 - TS02	PROPOSED	2,4	1,1	11
M06 - L10-PP/TS	PROPOSED	2,4	1,1	8
M07 - TS03	PROPOSED	2,4	1,1	27
M07 - TS04	PROPOSED	2,4	1,1	6
M07 - L11-PP/TS	PROPOSED	2,4	1,1	45

PROPOSED CCTV CAMERA CABLE SCHEMATIC



PROPOSED CCTV CAMERA CABLE ROUTING

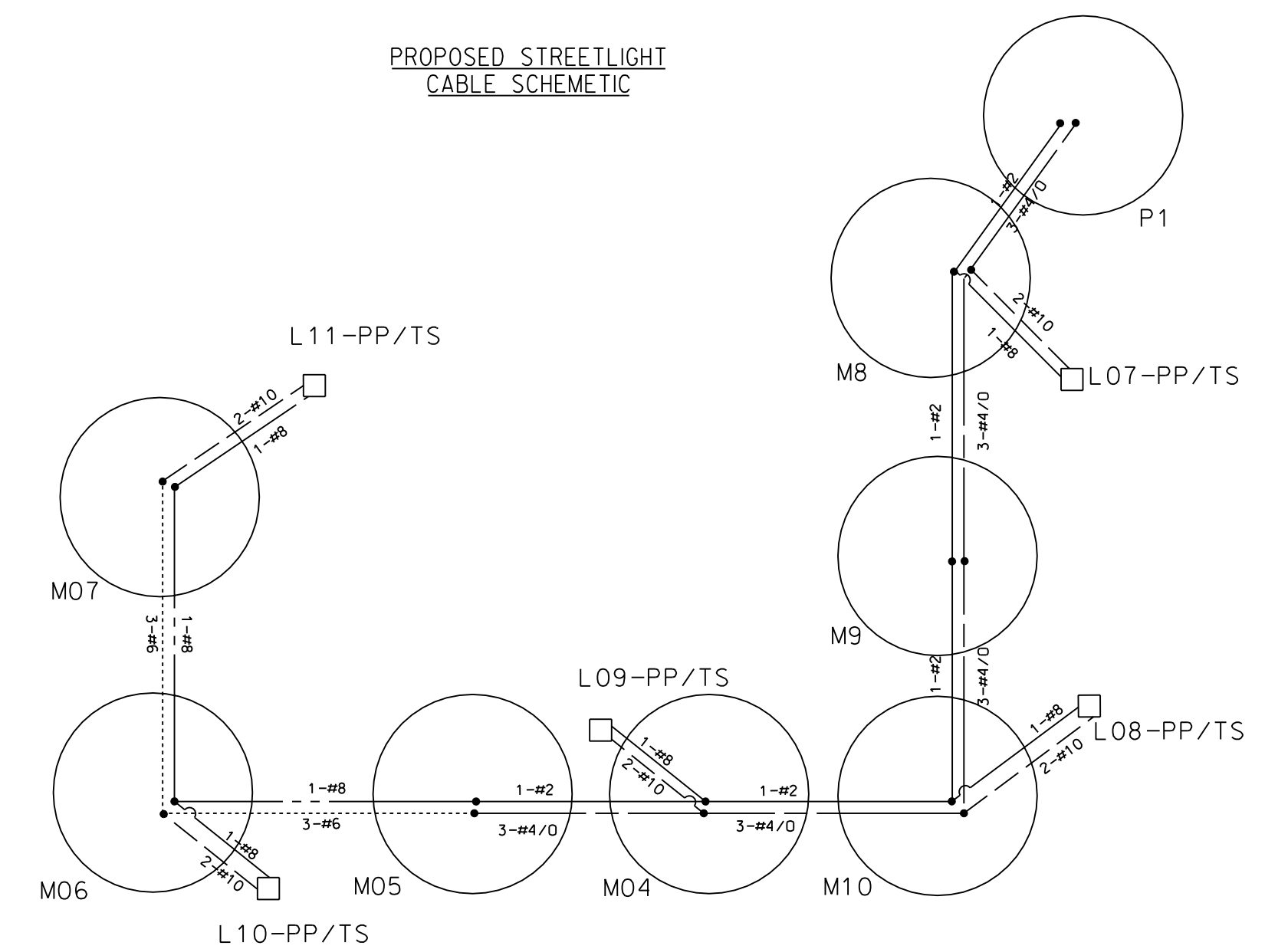
- TC1 - M08 - M09 - M10 - M04 - PP01 - CCTV

7 CONDUCTOR 14 AWG STRANDED CABLE
3 PAIR DIRECT BURIAL 19 AWG TWISTED PAIR
RG-6 FLOODED DIRECT BURIAL VIDEO COAX
FROM POWER SUPPLY - TC - CCTV CAMERA
COMPOSITE CABLE

NOTES:

- MOUNT POWER SUPPLY ON POLE AT APPROPRIATE LOCATION 12' TO 14' FROM GROUND.
- MOUNT CAMERA DOME ON MAST ARM AS IS SPECIFIED ON CCTV MOUNTING DETAILS (DDOT STANDARD DRAWING).

PROPOSED STREETLIGHT CABLE SCHEMATIC



PROPOSED STREETLIGHT CABLE LEGEND

- NO. 8 STRANDED BARE COPPER GROUND WIRE
- NO. 2 STRANDED BARE COPPER GROUND WIRE
- TWO NO. 10 STRANDED CABLES
- THREE NO. 6 STRANDED CABLES
- THREE NO. 4/0 STRANDED CABLES
- SPLICE POINT

PROPOSED STREETLIGHT CABLE ROUTING

- PI - M08 - L07-PP/TS
- PI - M08 - M09 - M10 - L08-PP/TS
- PI - M08 - M04 - M10 - M04 - L09-PP/TS
- PI - M08 - M04 - M10 - M04 - M05 - M06 - L10-PP/TS
- PI - M08 - M04 - M10 - M04 - M05 - M06 - M07 - L11-PP/TS

SCHEDULE		QUANTITY					
FROM STA.	TO STA.	DISTANCE	*4/0	*6	*10	*2	*8
PI	M08	10	60			20	
M08	M09	41	153			51	
M10	M04	34	132			44	
M04	M05	125	405			135	
M05	M06	29		117		39	
M06	M07	72		246		82	
M08	L07-PP/TS	15			40	20	
M10	L08-PP/TS	23			56	28	
M04	L09-PP/TS	30			70	35	
M06	L10-PP/TS	8			26	13	
M07	L11-PP/TS	45			100	50	
TOTAL			750	363	292	371	146

STREETLIGHT POLE INFORMATION (INSTALLATION)							
DRAWING LIGHT NO.	MARYLAND GRID PLAT	GRID NO.	LOCATION	TYPE OF POLE	LIGHT SOURCE	LAMP WATTS	DATE IN SERVICE
L07-PP/TS	818392	756817	NE CON SERVICE ROAD KENIL WORTH AVE. EASTERN AVE., N.E.	PEND POST	HPS	250W	
L08-PP/TS	818392	730777	SE CON SERVICE ROAD KENIL WORTH AVE. EASTERN AVE., N.E.	PEND POST	HPS	250W	
L09-PP/TS	818392	673819	SOUTH ISLAND OF EASTERN AVE. BRIDGE OVER KENIL WORTH AVE., N.E.	PEND POST	HPS	400W	
L10-PP/TS	818392	555879	SW CON SERVICE ROAD KENIL WORTH AVE. EASTERN AVE., N.E.	PEND POST	HPS	250W	
L11-PP/TS	818392	625921	NORTH ISLAND OF EASTERN AVE. BRIDGE OVER KENIL WORTH AVE., N.E.	PEND POST	HPS	400W	

STREETLIGHT POLE INFORMATION (REMOVAL)							
DRAWING LIGHT NO.	MARYLAND GRID PLAT	GRID NO.	LOCATION	TYPE OF POLE	LIGHT SOURCE	LAMP WATTS	DATE IN SERVICE
R04-WP	818392	6775	F/O 1629 KENILWORTH AVE. EASTERN AVE., N.E.	WOOD POLE	HPS	400W	
R05-WP	818392	648917	NORTH ISLAND OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVE., N.E.	PEND POST	HPS	400W	
R06-WP	818392	7284	F/O 1703 KENILWORTH AVENUE, N.E.	WOOD POLE	HPS	400W	
R17-PP	818392	564888	W/S SERVICE ROAD KENILWORTH AVE. & EASTERN AVE., N.E.	PEND POST	HPS	400W	

SG-03

SEQUENCE OF OPERATIONS DRAWING NO. TS-269-D

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE N.E. CABLE ROUTING SCHEMATIC		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	12 / 08
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER William W. McSquid	DATE 4/22/09	SCALE 1" = 20'
SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE	SHEET / OF 2 / 11
DEPUTY PROGRAM MANAGER	DATE	DRAWING NO. S-190-C
PROGRAM MANAGER	DATE	



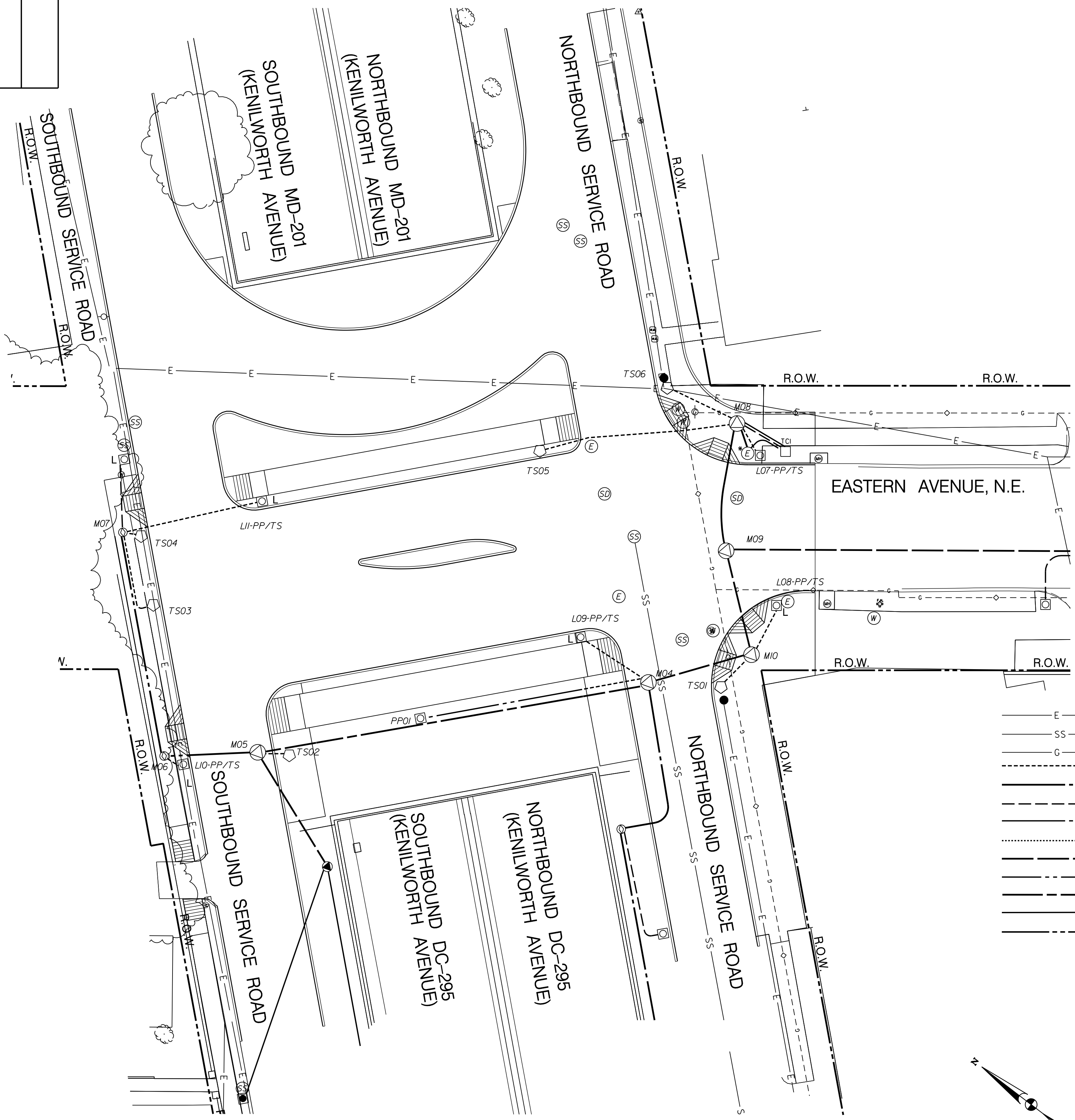
APPROVED BY _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	196	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

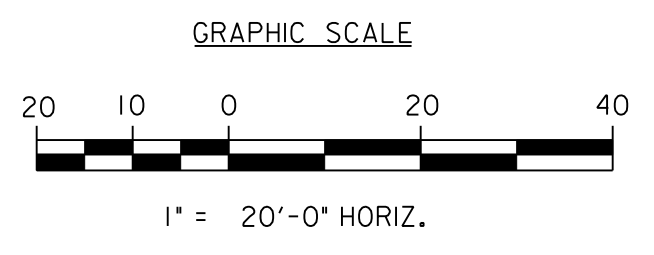
GENERAL NOTES:

1. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA AND/OR RECORD DRAWINGS. THE LOCATION OF UTILITIES SHOWN IS APPROXIMATE AND THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF A UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW THE GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE OWNER AT CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
2. THE CONTRACTOR SHALL EXCAVATE AND LOCATE VERTICALLY AND HORIZONTALLY ALL UTILITIES IN CLOSE PROXIMITY TO THE PROPOSED TRAFFIC SIGNAL WORK AREA AS NECESSARY FOR CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO EXCAVATING.
4. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 2 FOOT HORIZONTAL CLEARANCE TO ALL UTILITIES DURING CONSTRUCTION.
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED CONDUITS.



LEGEND:

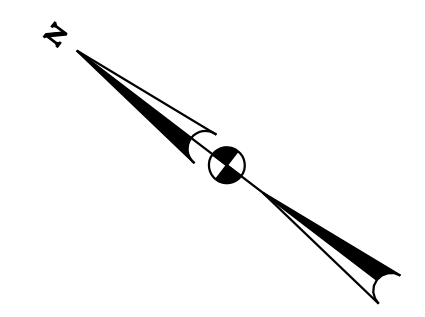
- TC □ PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- L ● EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
- L □ EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
- EXISTING PEPSCO WOOD POLE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- PROPOSED TWIN-20 STREETLIGHT POLE
- ▤ PROPOSED WHEELCHAIR RAMP
- EXISTING TREE
- ⊙ EXISTING CATCH BASIN
- ⊕ EXISTING GAS VALVE
- ⊗ EXISTING WATER METER
- ⊛ EXISTING FIRE HYDRANT
- ⊖ EXISTING WATER MANHOLE
- ⊚ EXISTING SANITARY SEWER MANHOLE
- ⊙ EXISTING PEPSCO ELECTRICAL MANHOLE
- ⊚ EXISTING STORM DRAINAGE MANHOLE
- * PROPOSED LOCATION FOR PEPSCO POWER CONNECTION
- ⊚ PROPOSED DDOT MANHOLE (4'X4'X4')
- ⊚ PROPOSED DDOT MANHOLE (3'X3'X3')
- E — EXISTING ELECTRICAL LINE (FROM SURVEY)
- SS — EXISTING SANITARY SEWER LINE
- G — EXISTING GAS LINE
- — — PROPOSED DDOT 1-2" & 1-4" ELECTRICAL PVC CONDUIT
- — — PROPOSED DDOT 4-4" ELECTRICAL PVC CONDUIT
- — — PROPOSED DDOT 1-2" ELECTRICAL PVC CONDUIT
- — — PROPOSED DDOT 2-4" ELECTRICAL PVC CONDUIT
- — — PROPOSED DDOT 1-4" ELECTRICAL PVC CONDUIT
- — — PROPOSED DDOT 6-4" ELECTRICAL PVC CONDUIT
- — — PROPOSED DDOT 1-2" ELECTRICAL METAL CONDUIT
- — — PROPOSED DDOT 6-4" ELECTRICAL METAL CONDUIT
- — — EXISTING DDOT CONDUIT
- - - - - R.O.W. - - - - - RIGHT OF WAY LINE



Precision Systems, Inc.
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PHONE: (301) 982-2800 FAX: (240) 642-3183
www.g-and-o.com

APPROVED BY _____ DATE _____



SEQUENCE OF OPERATIONS DRAWING NO. TS-269-D

SG-04

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION

KENILWORTH AVENUE AND
EASTERN AVENUE N.E.
UTILITY PLAN

SUBMITTED BY	PROJECT ENGINEER	DATE	4/27/09	REVIEWED BY	AYY
RECOMMENDED	GROUP MANAGER	DATE		DATE	12 / 08
APPROVED	ITS SYSTEMS SUPPORT BRANCH MANAGER	DATE	4/27/09	SCALE	1" = 20'
	SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE		SHEET	3 OF 11
	DEPUTY PROGRAM MANAGER	DATE		DRAWING NO.	S-190-C
	PROGRAM MANAGER	DATE			

P:\3040\signal\Working-Temp\Eastern Ave and Kenilworth Ave, N.E.\DUT-P001-3040-1.dgn Wednesday, April 29, 2009 AT 12:51 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	197	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

EXISTING COMMUNICATION CABLE PLAN I



MATCH LINE A-A, SEE SHEET "SG-06"

LEGEND:

- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING OVERHEAD COMMUNICATION CABLE TO BE REMOVED
- EXISTING PEPCO WOOD POLE
- EXISTING HANDBOX
- 1-12 PAIR COMMUNICATION CABLE
- 2-12 PAIR COMMUNICATION CABLE

REMOVAL NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING 12 PAIR COMMUNICATION CABLE ALONG KENILWORTH AVE., N.E. BETWEEN THE EXISTING TRAFFIC CONTROLLERS LOCATED AT EASTERN AVE., N.E. (TC1), AND NANNIE HELEN BURROUGHS AVE., N.E. (TC4).
2. THE CONTRACTOR SHALL REMOVE EXISTING 12 PAIR COMMUNICATION CABLE ALONG EASTERN AVENUE, N.E. BETWEEN EXISTING TRAFFIC CONTROLLERS LOCATED AT KENILWORTH AVE., N.E. (TC1) AND OLIVE ST. N.E.(TC3).

SG-05

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. EXISTING COMMUNICATION CABLE I		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	<i>[Signature]</i>	DATE 4/27/09
RECOMMENDED GROUP MANAGER		DATE 03 /09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	<i>William W. McGinnis</i>	DATE 4/22/09
DEPUTY PROGRAM MANAGER		DATE
PROGRAM MANAGER		DATE
SCALE 1" = 50'		SHEET 4 OF 11
DRAWING NO. S-190-C		

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PHONE: (410) 583-8700 FAX: (410) 583-8704
WWW.G-AND-O.COM
FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

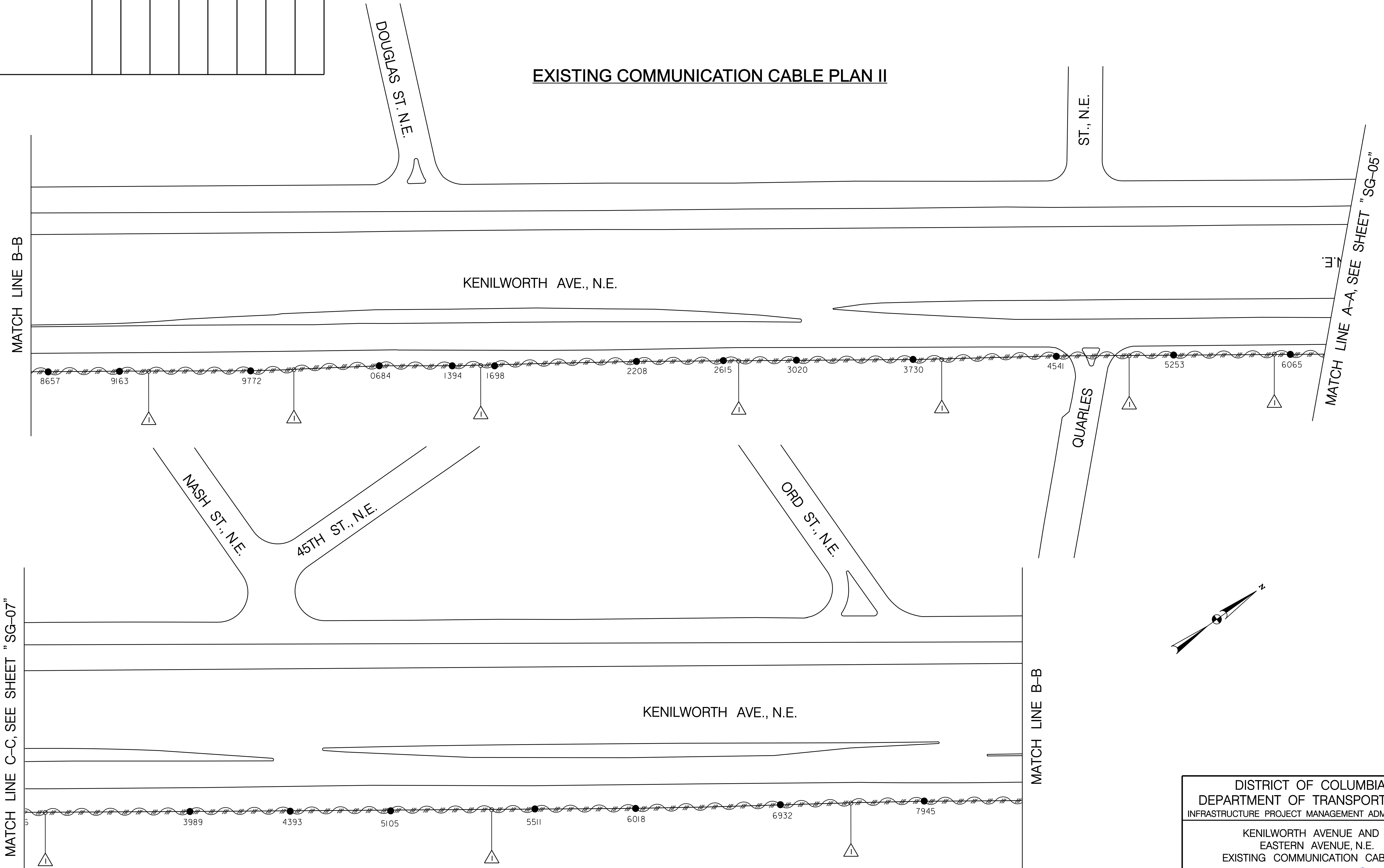
APPROVED BY _____ DATE _____

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Wednesday, April 29, 2009 AT 12:47 PM

REG.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	198	242

EXISTING COMMUNICATION CABLE PLAN II

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.



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Wednesday, April 23, 2009 AT 12:47 PM

SG-06

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. EXISTING COMMUNICATION CABLE II		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER		DATE 03 / 09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER		SHEET 5
PROGRAM MANAGER		OF 11 DRAWING NO. S-190-C

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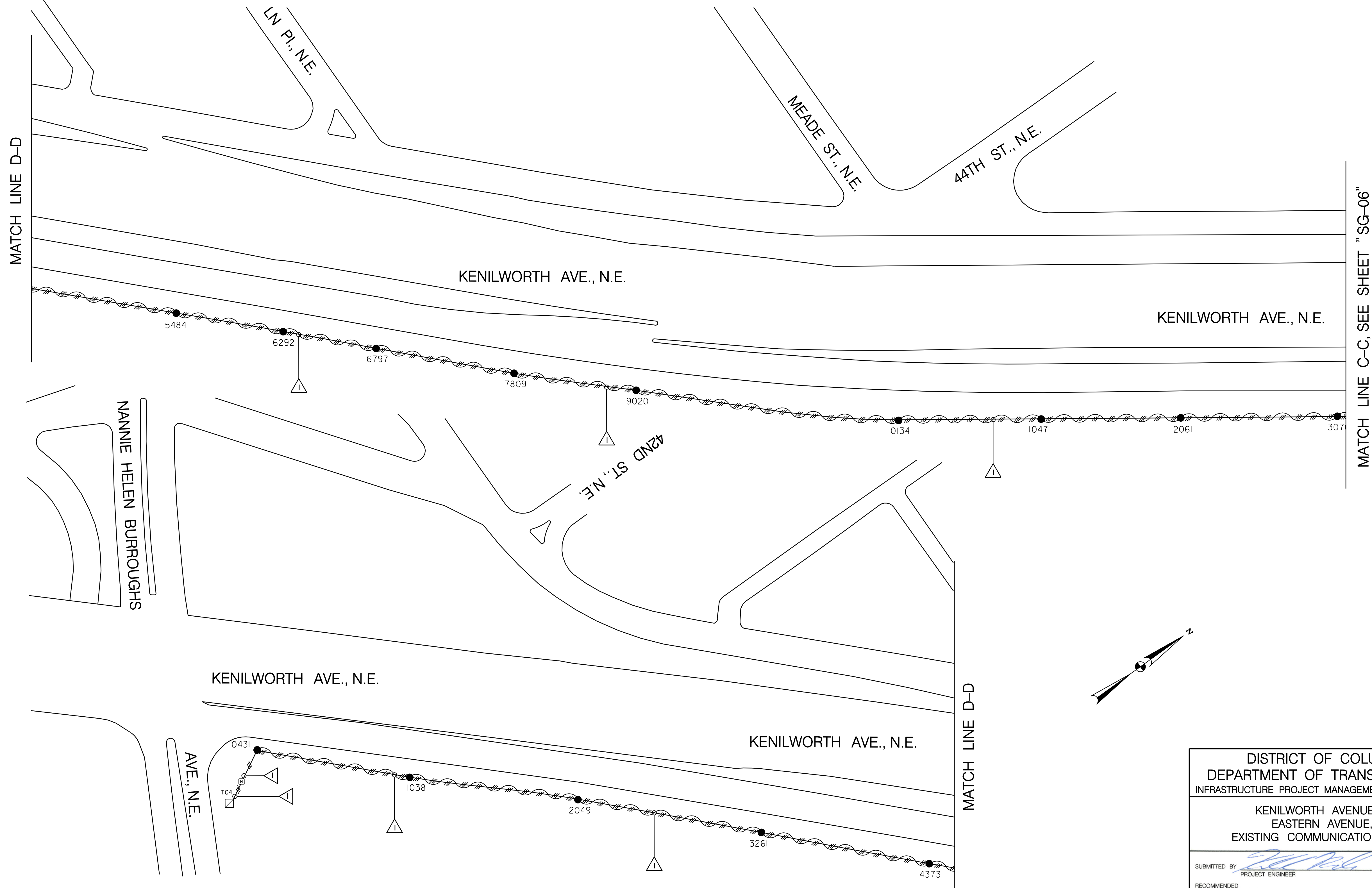
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APPROVED BY _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	199	242

EXISTING COMMUNICATION CABLE PLAN III

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.



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Wednesday, April 23, 2009 AT 12:47 PM

SG-07

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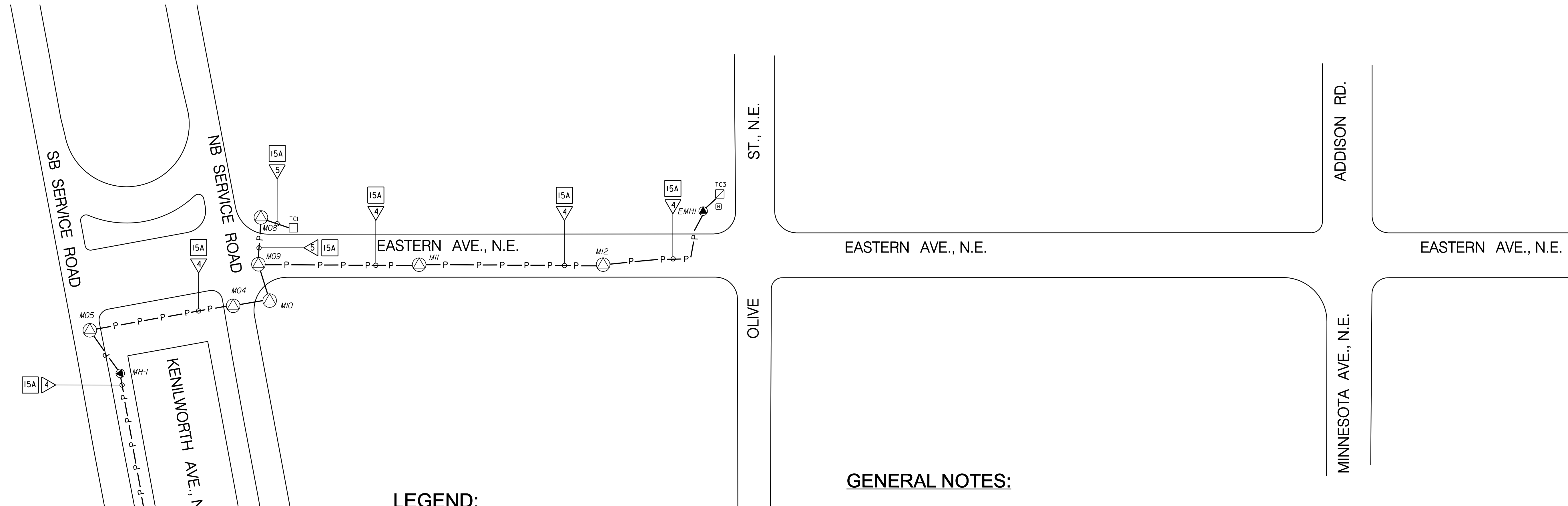
APPROVED BY _____ DATE _____

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. EXISTING COMMUNICATION CABLE III		DESIGNED BY KXZ
SUBMITTED BY _____ DATE 4/27/09		DRAWN BY KXZ
RECOMMENDED GROUP MANAGER _____ DATE _____		REVIEWED BY AYY
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER _____ DATE 4/22/09		DATE 03 / 09
SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER _____ DATE _____		SCALE 1" = 50'
DEPUTY PROGRAM MANAGER _____ DATE _____		SHEET 6 OF 11
PROGRAM MANAGER _____ DATE _____		DRAWING NO. S-190-C

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	200	242

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

PROPOSED COMMUNICATION CABLE PLAN I



MATCH LINE A-A, SEE SHEET "SG-09"

LEGEND:

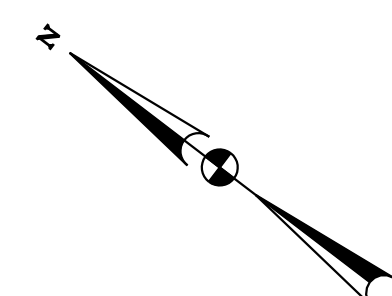
- EXISTING TRAFFIC SIGNAL CONTROLLER
- PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- PROPOSED UNDERGROUND COMMUNICATION CABLES
- PROPOSED DDOT MANHOLE (4'X4'X4')
- EXISTING DDOT MANHOLE (4'X4'X4')
- EXISTING HANDBOX
- 1-12 PAIR COMMUNICATION CABLE
- 1-25 PAIR COMMUNICATION CABLE
- 2-25 PAIR COMMUNICATION CABLE
- INSTALL COMMUNICATION CABLE IN DDOT CONDUIT

INSTALLATION NOTES:

- THE CONTRACTOR SHALL INSTALL NEW 25 PAIR COMMUNICATION CABLE ALONG SB KENILWORTH AVE., N.E. BETWEEN THE PROPOSED TRAFFIC CONTROLLER LOCATED AT EASTERN AVE., N.E. (TC1), AND THE EXISTING TRAFFIC CONTROLLER AT NANNIE HELEN BURROUGHS AVE., N.E. (TC5).
- THE CONTRACTOR SHALL INSTALL NEW 25 PAIR COMMUNICATION CABLE ALONG EASTERN AVE., N.E. BETWEEN THE PROPOSED TRAFFIC CONTROLLER LOCATED AT KENILWORTH AVE., N.E. (TC1), AND THE EXISTING TRAFFIC CONTROLLER AT OLIVE ST. N.E. (TC3).

GENERAL NOTES:

- DDOT PERSONNEL WILL DISCONNECT COMMUNICATION CABLES IN THE TERMINAL BLOCK OF TRAFFIC SIGNAL CONTROLLERS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW UNSPLICED 12 PAIR COMMUNICATION CABLES AS PROPOSED SHOWN IN PLANS.
- DDOT PERSONNEL WILL CONNECT COMMUNICATION CABLES IN THE TERMINAL BLOCK OF TRAFFIC SIGNAL CONTROLLERS.
- ALL PROPOSED COMMUNICATION CABLES SHALL BE INSTALLED WITHOUT SPLICES.
- THE CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE DISRUPTION TO THE COMMUNICATION NETWORK. PROPOSED CABLES SHALL BE INSTALLED AND CONNECTED IMMEDIATELY AFTER EXISTING CABLES ARE DISCONNECTED.
- INSTALLATION DIMENSIONS SHOWN ARE APPROXIMATE. MODIFICATIONS SHALL BE MADE AS REQUIRED UNDER APPROVAL FROM THE ENGINEER.



REVISED FOR ADDENDUM NO. 1 **SG-08**

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. PROPOSED COMMUNICATION CABLE I		DESIGNED BY KXZ
		DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER		DATE 03 /09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER		SHEET 7 OF 11
PROGRAM MANAGER		DRAWING NO. S-190-C

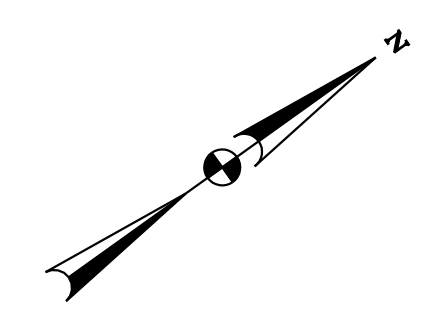
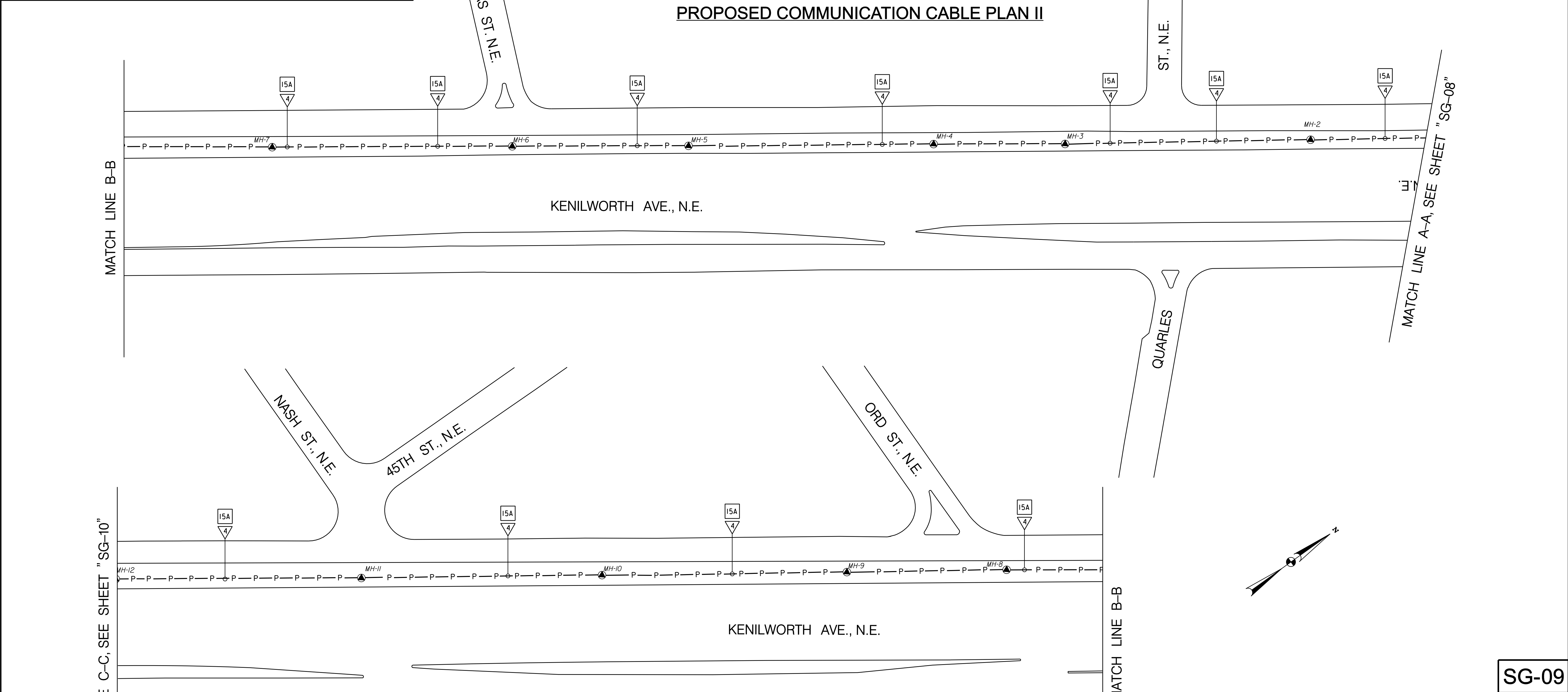


APPROVED BY _____ DATE _____

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	201	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.



SG-09

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. PROPOSED COMMUNICATION CABLE II		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	<i>[Signature]</i>	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER		DATE 03 / 09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER	<i>[Signature]</i>	SCALE 1" = 50'
SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	<i>[Signature]</i>	DATE 4/22/09
DEPUTY PROGRAM MANAGER		DATE
PROGRAM MANAGER		DATE
		SHEET 8 / 11
		DRAWING NO. S-190-C

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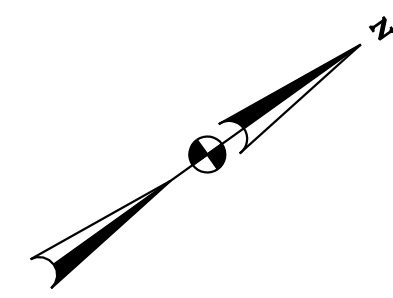
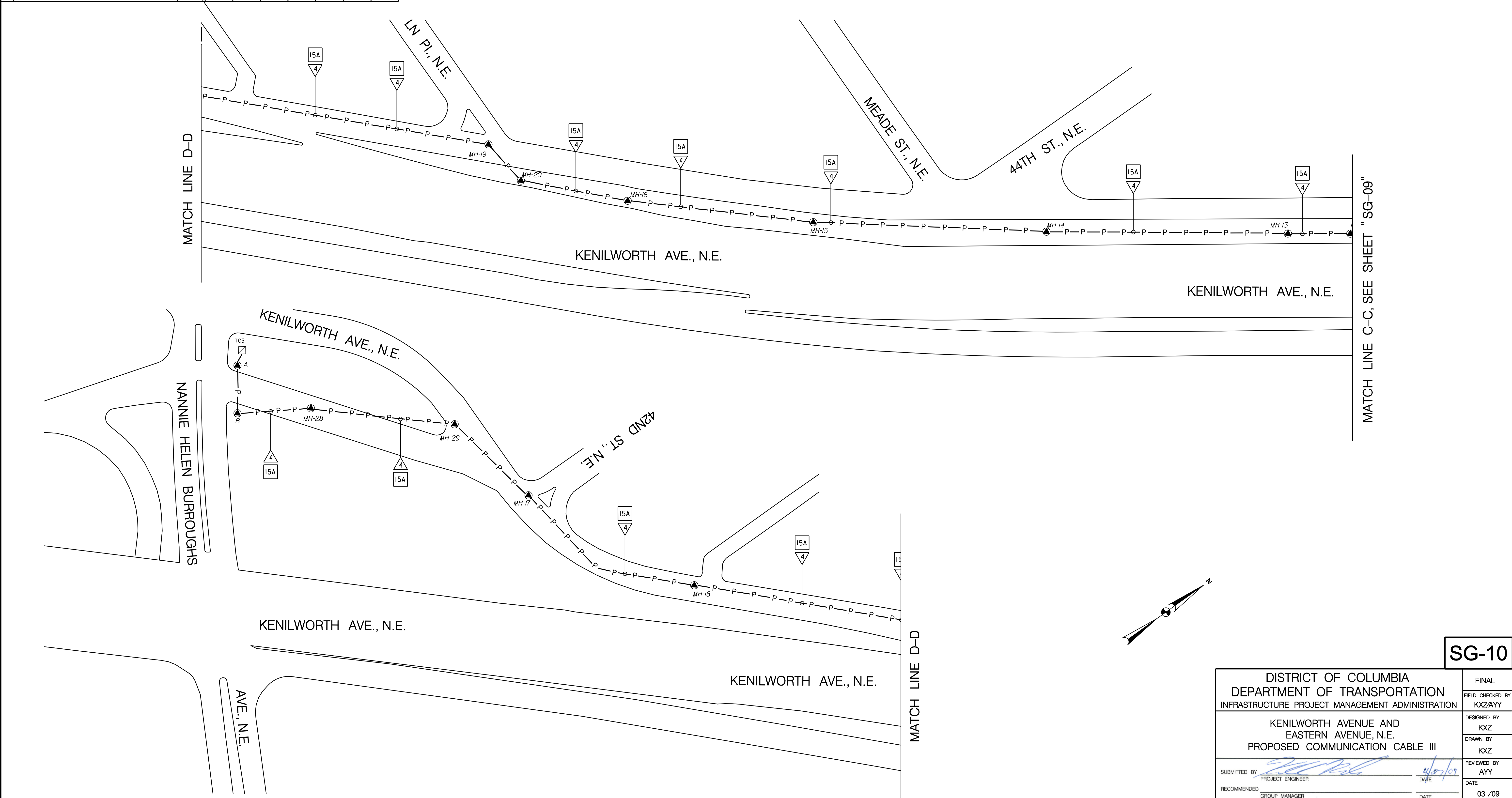
APPROVED BY _____ DATE _____

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Wednesday, April 23, 2009 AT 12:48 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	202	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

PROPOSED COMMUNICATION CABLE PLAN III



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Wednesday, April 29, 2009 AT 12:48 PM

SG-10

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. PROPOSED COMMUNICATION CABLE III		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	<i>[Signature]</i>	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER		DATE 03 / 09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	<i>[Signature]</i> <i>[Signature]</i>	DATE 4/27/09 4/22/09
DEPUTY PROGRAM MANAGER		SCALE 1" = 50'
PROGRAM MANAGER		SHEET 9 OF 11 DRAWING NO. S-190-C

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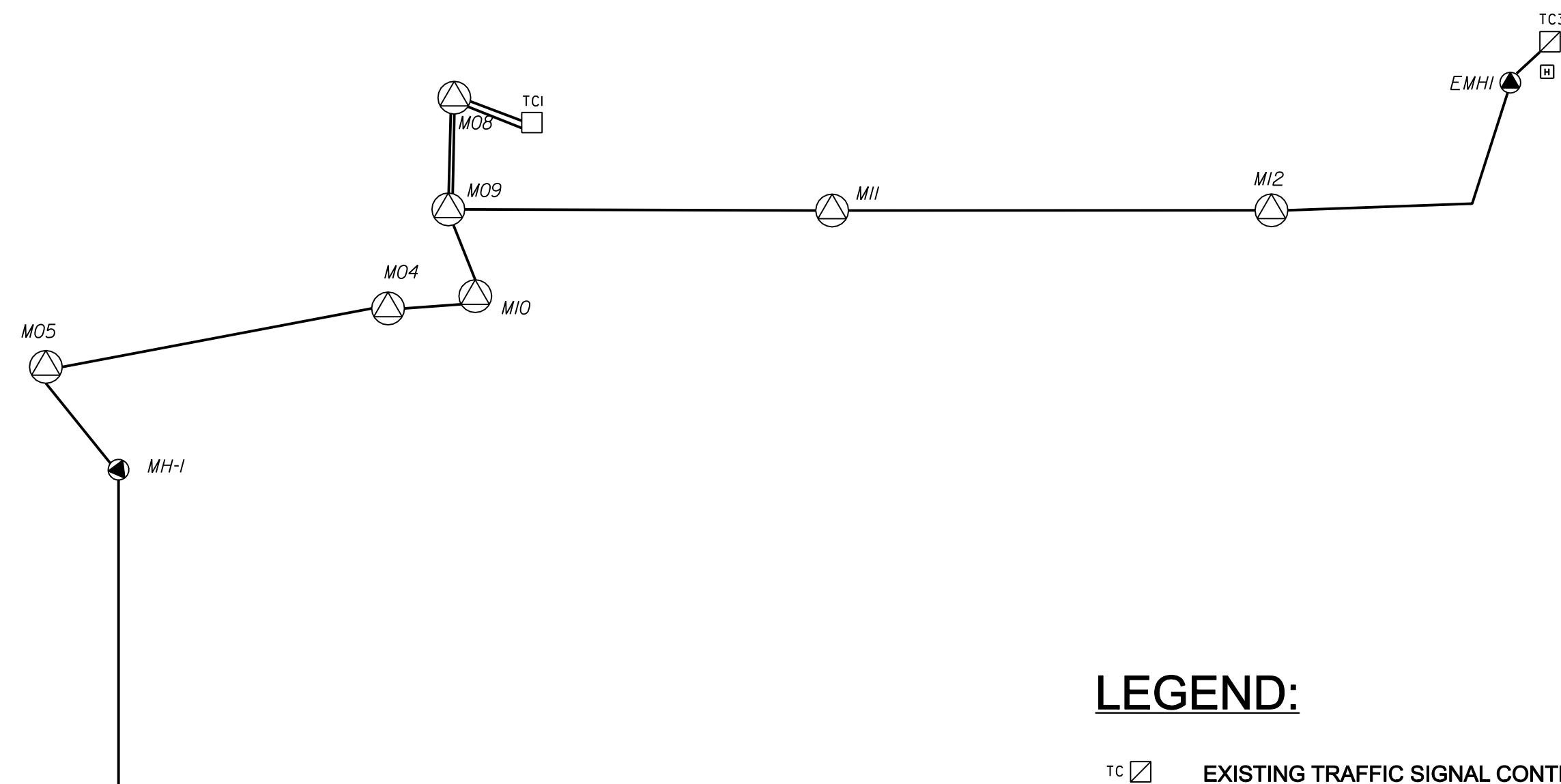
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APPROVED BY _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	203	242

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

PROPOSED COMMUNICATION CABLE SCHEMATICS PLAN I



MATCH LINE A-A, SEE SHEET "SG-12"

LEGEND:

- TC □ EXISTING TRAFFIC SIGNAL CONTROLLER
- TC □ PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- PROPOSED UNDERGROUND COMMUNICATION CABLES
- ⊙ PROPOSED DDOT MANHOLE (4'X4'X4')
- EXISTING DDOT MANHOLE
- ⊞ EXISTING HANDBOX

PROPOSED COMMUNICATION CABLE ROUTING:

- TC1 - M08 - M09 - M11 - M12 - EMH1 - TC3
- TC1 - M08 - M09 - M10 - M04 - M05 - MH-1 - MH-2 - MH-3 - MH-4 - MH-5 - MH-6 - MH-7 - MH-8 - MH-9 - MH-10 - MH-11 - MH-12 - MH-13 - MH-14 - MH-15 - MH-16 - MH-20 - MH-19 - MH-18 - MH-17 - MH-29 - MH-28 - B - A - TC5

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Monday, July 06, 2009 11:03:10 PM

REVISED FOR ADDENDUM NO. 1 **SG-11**

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. PROPOSED COMMUNICATION CABLE IV		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	03 /09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER	DATE	SHEET 10 OF 11
PROGRAM MANAGER	DATE	DRAWING NO. S-190-C

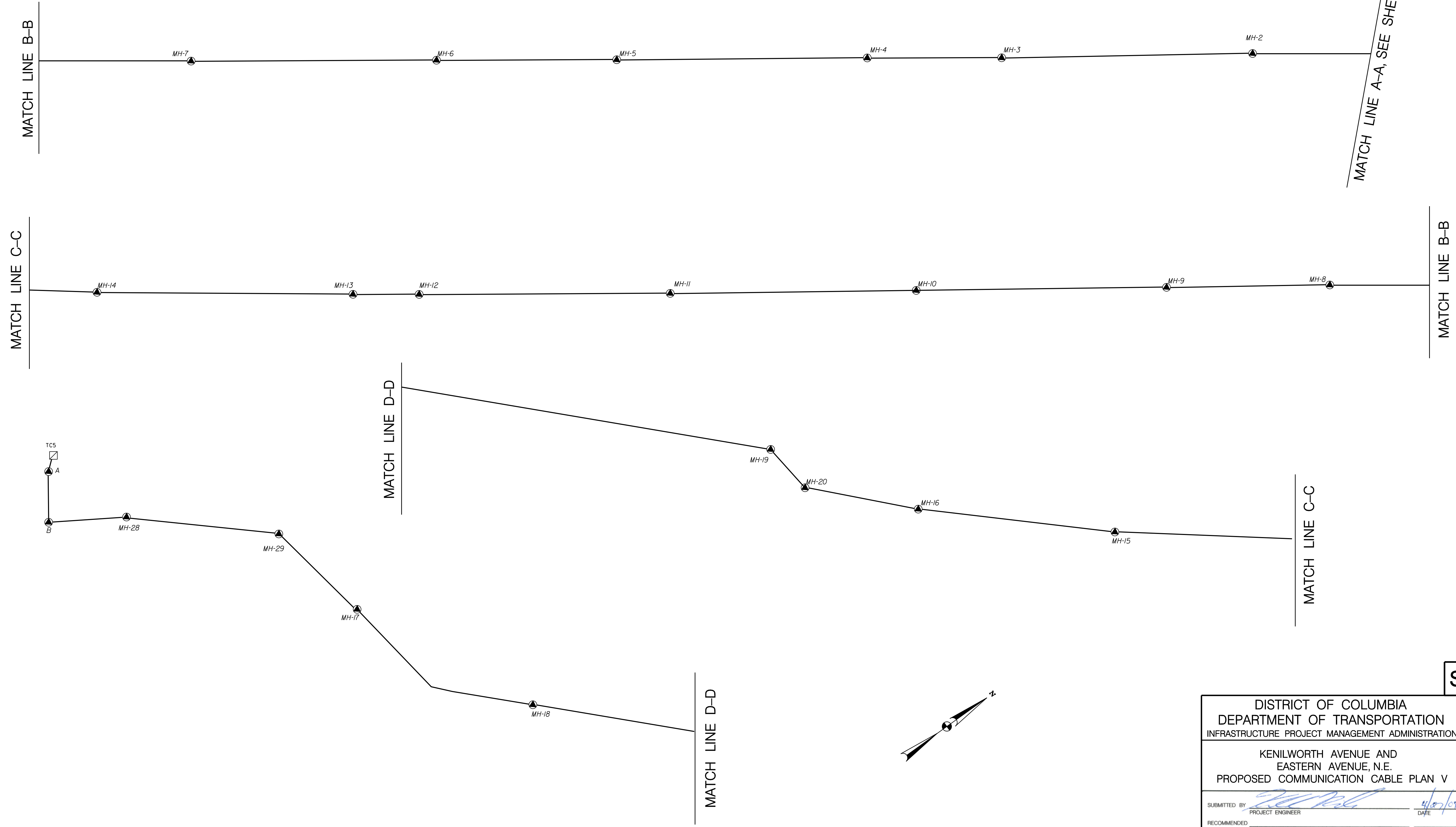


APPROVED BY _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	204	242

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

PROPOSED COMMUNICATION CABLE SCHEMATICS PLAN II



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Wednesday, April 23, 2009 AT 12:49 PM

SG-12

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APPROVED BY _____ DATE _____

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND EASTERN AVENUE, N.E. PROPOSED COMMUNICATION CABLE PLAN V		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	03 /09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER	DATE	SHEET 11 OF 11
PROGRAM MANAGER	DATE	DRAWING NO. S-190-C

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

REG.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	205	242

GENERAL NOTES:

- ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIAL SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL TURN OFF TRAFFIC SIGNAL HEADS 2, 6, 9, 9A, PEDESTRIAN SIGNAL HEADS 17, 19, 20, PUSH BUTTONS PPB-A, PPB-B, MICROWAVE DETECTORS M2, M3 AND ALL LOOP DETECTORS DURING CONSTRUCTION.

REMOVAL NOTES:

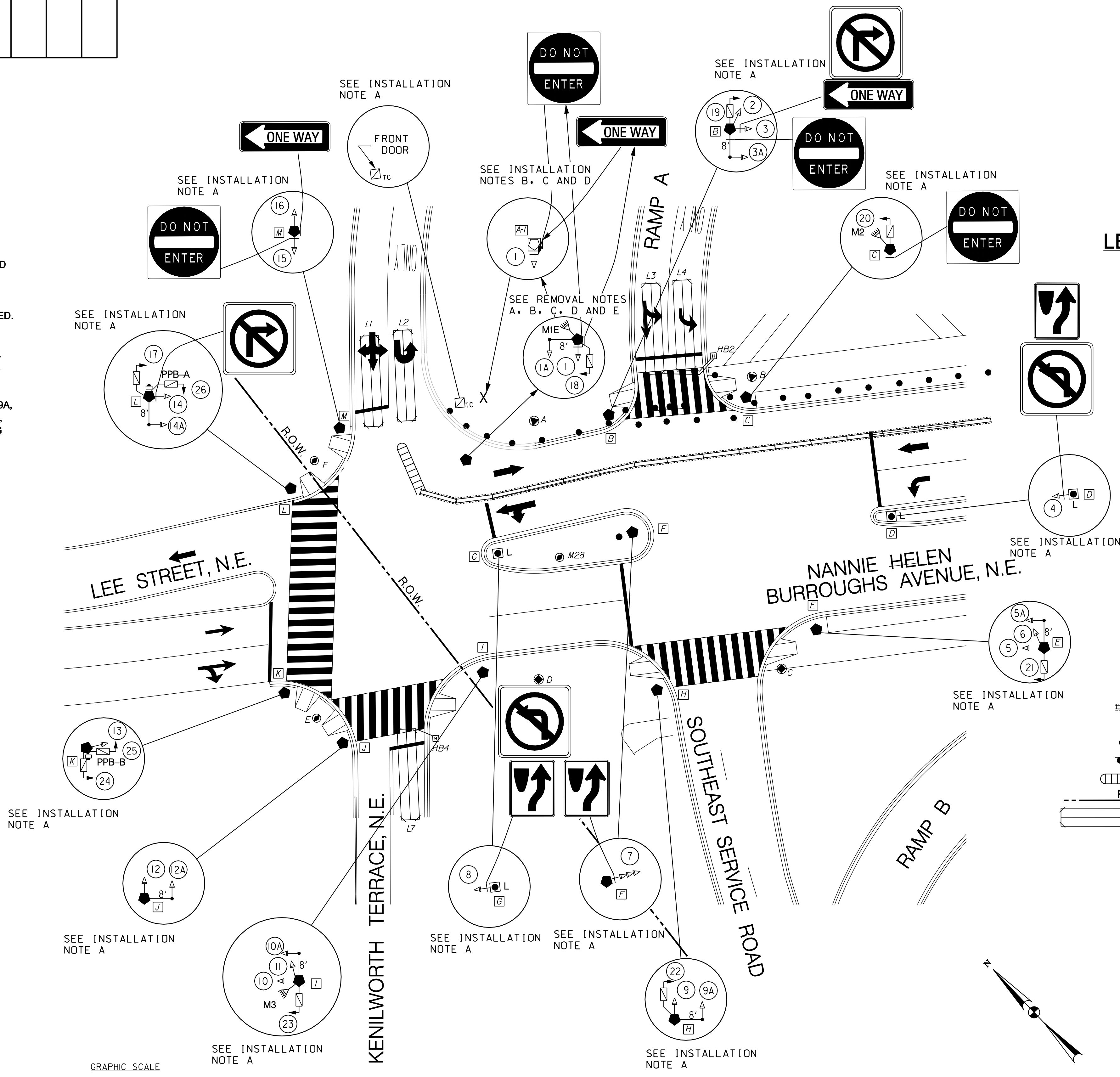
- REMOVE EXISTING TRAFFIC SIGNAL POLE.
- REMOVE EXISTING TRAFFIC SIGNAL HEAD(S).
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD.
- REMOVE EXISTING MICROWAVE VEHICLE DETECTOR.
- REMOVE EXISTING TRAFFIC SIGN(S).

INSTALLATION NOTES:

- NO CHANGE AT THIS LOCATION.
- INSTALL 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE ONTO A TEMPORARY, PORTABLE, CONCRETE BASE.
- INSTALL LED TRAFFIC SIGNAL HEAD(S).
- INSTALL TRAFFIC SIGN(S).

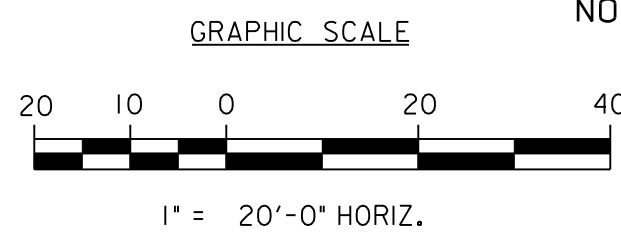
CABLE NOTES:

- DDOT PERSONNEL WILL MAKE ALL ELECTRICAL CONNECTIONS INSIDE THE CONTROLLER CABINET. THE CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS IN TRAFFIC AND PEDESTRIAN SIGNAL HEADS.
- TEMPORARY SIGNAL CABLES EXTENDING OVER THE GROUND SURFACE SHALL BE PROTECTED BY FLEXIBLE PLASTIC CONDUIT.
- THE CONTRACTOR SHALL PROVIDE 50 FEET OF SLACK CABLE COILED NEATLY AT EACH TEMPORARY, PORTABLE, CONCRETE BASE.



LEGEND:

- TC EXISTING TRAFFIC SIGNAL CONTROLLER WITH MODEL 336SS CABINET
- X PROPOSED LOCATION OF A TEMPORARY, PORTABLE, CONCRETE BASE
- EXISTING 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- L EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE MOUNTED ON A TEMPORARY, PORTABLE, CONCRETE BASE
- EXISTING 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- EXISTING 5 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- EXISTING 2 SECTION PEDESTRIAN SIGNAL HEAD
- EXISTING 8-FOOT MAST ARM WITH CAP AND CLAMP
- CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING WHEELCHAIR RAMP
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ EXISTING PEPSCO ELECTRICAL MANHOLE
- ⊙ EXISTING DDOT MANHOLE (3'X3'X3')
- ⊙ EXISTING DDOT MANHOLE (4'X4'X4')
- ⊙ EXISTING SIGNAL/LIGHTING MANHOLE
- ⊙ EXISTING MICROWAVE VEHICLE DETECTOR
- ⊙ EXISTING PEDESTRIAN PUSH BUTTON
- ⊙ EXISTING HAND BOX
- ▬ TEMPORARY F-SHAPE BARRIER
- ← DIRECTION OF TRAFFIC
- TRAFFIC DRUMS
- TYPE III BARRICADE
- ▬ TYPE E END TREATMENT
- - - R.O.W. RIGHT OF WAY LINE
- ▬ EXISTING LOOP DETECTOR



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APPROVED BY _____ DATE _____

SEQUENCE OF OPERATIONS DRAWING NO. TS-1203-B

SG-13

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION

KENILWORTH AVENUE AND
NANNIE HELEN BURROUGHS AVENUE N.E.
TRAFFIC SIGNAL MODIFICATION

STAGE 1
FIELD CHECKED BY KXZ/AYY
DESIGNED BY XW
DRAWN BY XW
REVIEWED BY AYY

SUBMITTED BY _____ DATE 4/27/09
PROJECT ENGINEER

RECOMMENDED _____ DATE 12/08
GROUP MANAGER

APPROVED _____ DATE 4/22/09
ITS SYSTEMS SUPPORT BRANCH MANAGER
SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER

DEPUTY PROGRAM MANAGER
PROGRAM MANAGER

SCALE 1" = 20'
SHEET 1 OF 1
DRAWING NO. S-1288-C

P:\301404\signal\Working-Temp\3-Nannie Helen and Kenilworth\pSC-A001-3-301404.dgn Wednesday, April 29, 2009 AT 04:57 PM

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

REG.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	206	242

GENERAL NOTES:

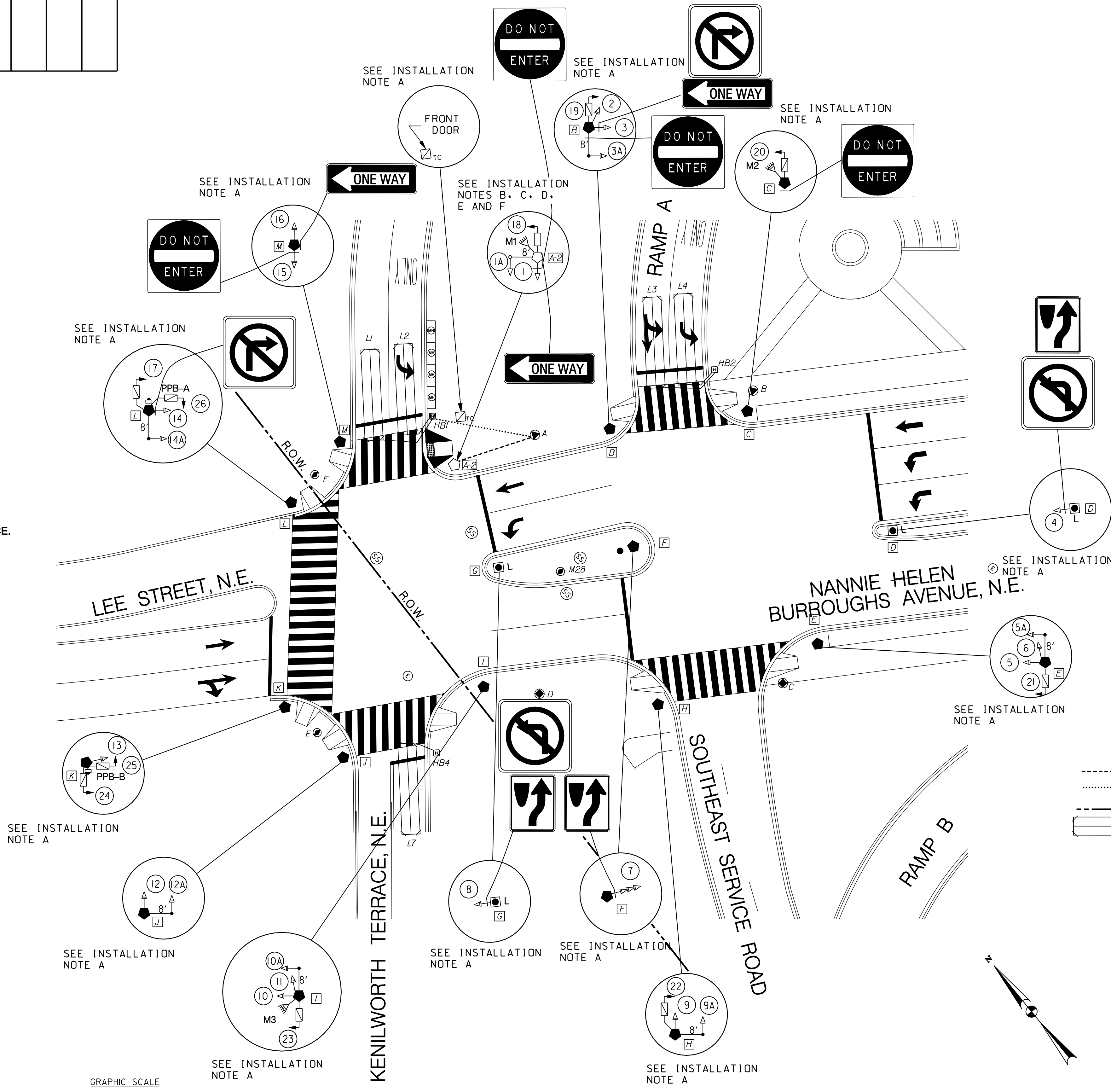
- A. ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- B. THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- C. THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- D. THE CONTRACTOR SHALL FURNISH AND INSTALL PROPOSED CONDUIT AND POLE FOUNDATION.
- E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED TRAFFIC AND PEDESTRIAN SIGNAL HEAD(S), TRAFFIC SIGNAL POLE, AND TRANSFORMER BASE AND ALL MOUNTING HARDWARE.
- F. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET ONTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION.
- G. THE CONTRACTOR SHALL FURNISH AND INSTALL PROPOSED HAND BOX AND MICROWAVE VEHICLE DETECTOR.
- H. THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO DDOT TRAFFIC SIGNAL SHOP. CONTACT MR. ALLEN HUNTLEY 72 HOURS IN ADVANCE AT (202) 576-5261 TO ARRANGE SERVICE.
- I. NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES.

INSTALLATION NOTES:

- A. NO CHANGE AT THIS LOCATION.
- B. INSTALL 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- C. INSTALL LED TRAFFIC SIGNAL HEAD(S).
- D. INSTALL LED COUNT-DOWN LED PEDESTRIAN SIGNAL HEAD(S).
- E. INSTALL MICROWAVE VEHICLE DETECTOR.
- F. INSTALL TRAFFIC SIGN(S).

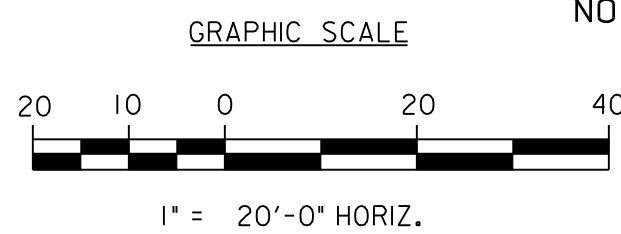
MAST ARM NOTES:

- A. A BACK PLATE SHALL BE AFFIXED TO EACH MAST ARM MOUNTED SIGNAL HEAD.
- B. THE BOTTOM OF MAST ARM MOUNTED SIGNAL HEADS SHALL BE 16 FEET ABOVE THE ROADWAY SURFACE.
- C. AN ASTRO-BRAC OR APPROVED EQUIVALENT SHALL BE USED TO MOUNT SIGNAL HEAD (1A) TO MAST ARM.



LEGEND:

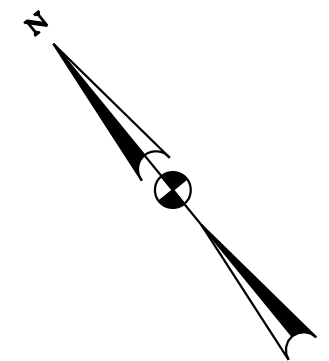
- EXISTING TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH MODEL 336SS CABINET
- EXISTING 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- EXISTING 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- EXISTING 5 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- EXISTING 2 SECTION PEDESTRIAN SIGNAL HEAD
- PROPOSED 2 SECTION LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD
- EXISTING 8-FOOT MAST ARM WITH CAP AND CLAMP
- PROPOSED 8-FOOT MAST ARM WITH CAP AND CLAMP
- CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING WHEELCHAIR RAMP
- PROPOSED WHEELCHAIR RAMP
- EXISTING SANITARY SEWER MANHOLE
- EXISTING PEPco ELECTRICAL MANHOLE
- EXISTING DDOT MANHOLE (3'X3'X3')
- EXISTING DDOT MANHOLE (4'X4'X4')
- EXISTING SIGNAL/LIGHTING MANHOLE
- EXISTING MICROWAVE VEHICLE DETECTOR
- PROPOSED MICROWAVE VEHICLE DETECTOR
- EXISTING PEDESTRIAN PUSH BUTTON
- EXISTING HAND BOX
- PROPOSED HAND BOX
-
-
- RIGHT OF WAY LINE
- EXISTING LOOP DETECTOR



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PHONE: (301) 982-2800 FAX: (240) 642-3183
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APPROVED BY _____ DATE _____



SG-14

SEQUENCE OF OPERATIONS DRAWING NO. TS-1203-C

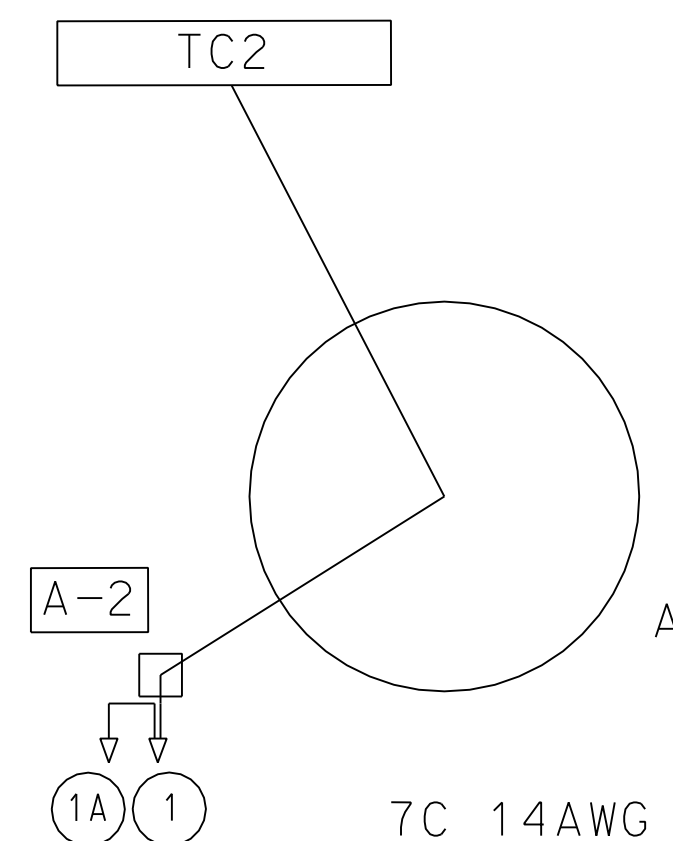
DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND NANNIE HELEN BURROUGHS AVENUE N.E. TRAFFIC SIGNAL MODIFICATION		DESIGNED BY XW DRAWN BY XW
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	12 /08
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 20'
DEPUTY PROGRAM MANAGER	DATE	SHEET 1 OF 2
PROGRAM MANAGER	DATE	DRAWING NO. S-1288-D

P:\301401\signal\Working-Temp\3-Nannie Helen and Kenilworth\pSC-P001-3-30140.dgn
Wednesday, April 29, 2009 AT 04:57 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	207	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

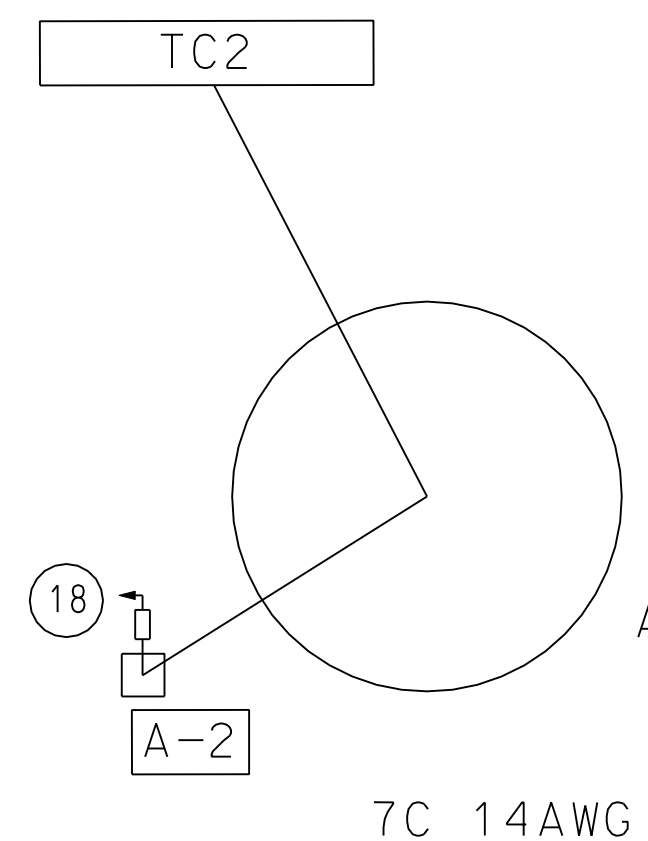
PROPOSED TRAFFIC SIGNAL HEAD
CABLE SCHEMATIC



PROPOSED TRAFFIC SIGNAL HEAD
CABLE ROUTING

TC - A - [A-2] - 1
1 - 1A

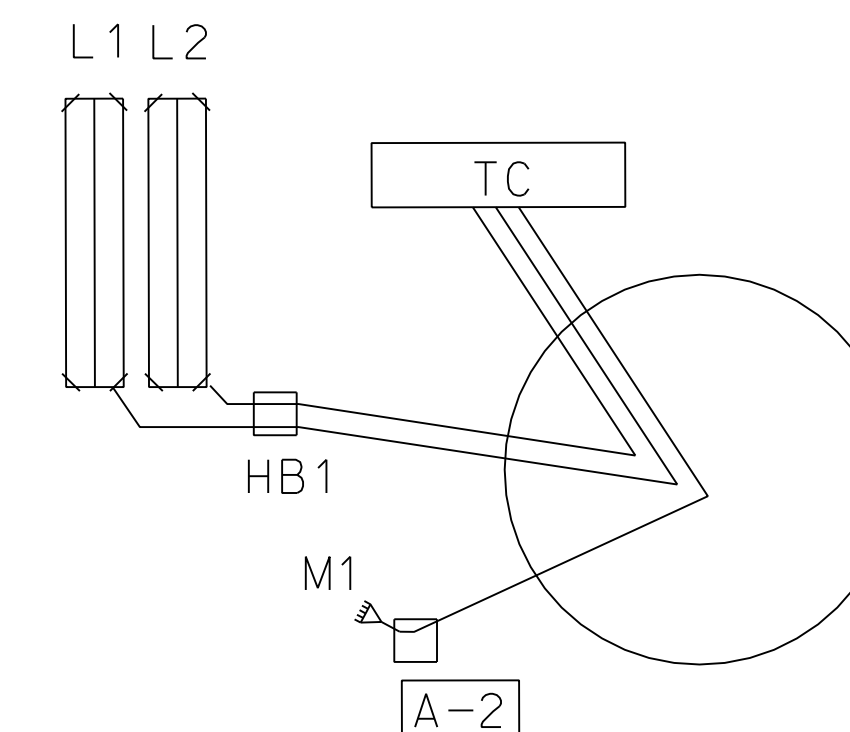
PROPOSED PEDESTRIAN SIGNAL HEAD
CABLE SCHEMATIC



PROPOSED PEDESTRIAN SIGNAL HEAD
CABLE ROUTING

TC - A - [A-2] - 18

PROPOSED HAND BOX, LOOP DETECTOR
AND MICROWAVE DETECTOR CABLE SCHEMATIC



PROPOSED HANDBOX AND MICROWAVE
DETECTOR ROUTING

TC - A - [A-2] - MI
TC - A - HBI - LI
TC - A - HBI - L2

STATION SCHEDULE		
	STATUS	DESCRIPTION
TC	EXISTING	TYPE 170 TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
A	EXISTING	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
[A-2]	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE AND 8-FOOT MAST ARM WITH CAP AND CLAMP
HBI	PROPOSED	HAND BOX

CONDUIT SUMMARY				
LOCATION TO LOCATION	STATUS	SIZE (DIA.) (IN)	NUMBER OF CONDUITS	QUANTITY (FT)
A - [A-2]	PROPOSED	2,4	1,1	28
A - HBI	PROPOSED	4	1	33

SG-15

SEQUENCE OF OPERATIONS DRAWING NO. TS-1203-C

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
KENILWORTH AVENUE AND NANNIE HELEN BURROUGHS AVENUE N.E. CABLE ROUTING SCHEMATIC		DESIGNED BY XW DRAWN BY SWY
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	12 / 08
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 20'
DEPUTY PROGRAM MANAGER	DATE	SHEET / OF 2 / 2
PROGRAM MANAGER	DATE	DRAWING NO. S-1288-D



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APPROVED BY _____ DATE _____

P:\301401\signal\Working-Temp\3-Nannie Helen and Kenilworth\pSC-P002-3-30140.dgn
Wednesday, April 29, 2009 AT 04:58 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	208	242

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED

RECONSTRUCTION OF EASTERN AVENUE BRIDGE

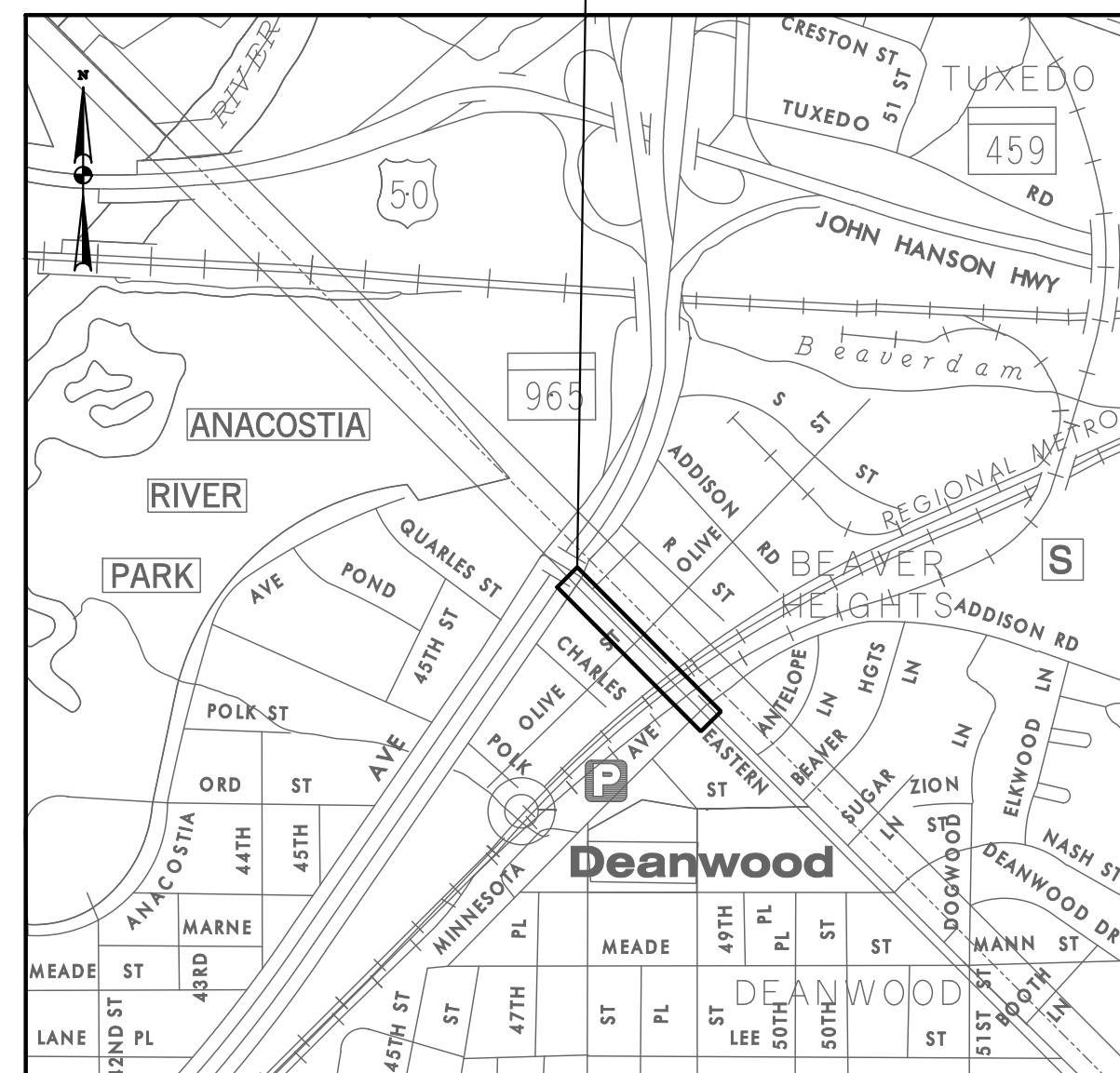
OVER KENILWORTH AVENUE, N.E.

FEDERAL AID PROJECT NOS. BRIDGE - ARA-3207(003)
ROADWAY - ARA-3207(004)

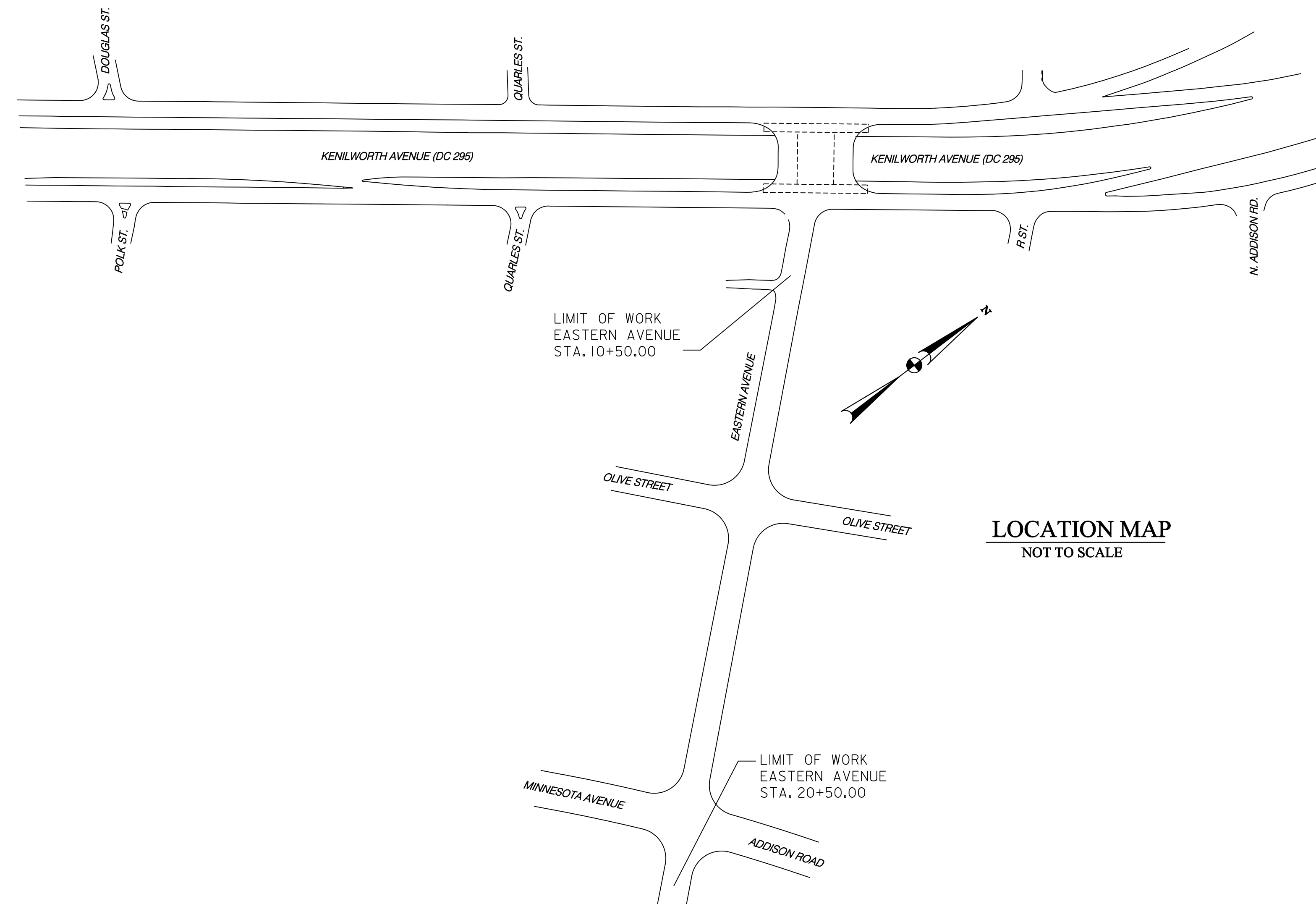
STREETLIGHT AND TRAFFIC SIGNAL WORK ALONG
EASTERN AVENUE TO MINNESOTA AVENUE, N.E.

TO BE CONSTRUCTED UNDER THIS CONTRACT

PROJECT SITE



KEY MAP



LOCATION MAP
NOT TO SCALE

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	209	242

GENERAL NOTES:

1. THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD OBSERVATION AND/OR RECORD DRAWINGS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE LOCATION OF THE UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR WILL VERIFY THE EXISTENCE OF ALL UTILITIES IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS THAT COULD DAMAGE THESE UTILITIES.

2. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRATOR WILL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THESE UTILITIES.

3. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DISTRICT AND THE OWNER OF THE UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND WILL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.

4. THE CONTRACTOR WILL NOTIFY THE FOLLOWING PARTIES AT LEAST FORTY EIGHT (48) HOURS, BUT NOT MORE THAN TEN (10) WORKING DAYS IN ADVANCE OF PROCEEDING WITH ANY EXCAVATION WORK:

TYPE OF WORK	NOTIFY AGENCIES
GAS, TELEPHONE, ELECTRICAL, CONDUIT & CABLE TV	MISS UTILITY (800-257-7777)
WATERMAIN & SEWERS	WASA (202-673-6600)

5. ALL STREET LIGHT FOUNDATIONS SHOWN ON THE PLANS WILL BE REPLACED OR REMOVED. ALL EXISTING STREET LIGHT CONDUITS TO BE ABANDONED WILL BE SEALED WITH CONCRETE BEFORE INSTALLING THE NEW FOUNDATION OR BACKFILLING. REMOVE THE FOUNDATION COMPLETELY, SUCH AS ANCHOR BOLTS, CONDUITS, CABLE AND ALL OTHER ASSOCIATED DEVICES.

6. THE CONTRACTOR WILL INSTALL THE NEW CONDUIT AND MANHOLE SYSTEM ALONG WITH THE MAINLINE FEEDER CABLES ENERGIZED BEFORE STARTING TO REMOVE AND INSTALL THE STREET LIGHTS.

7. WHERE A STREET LIGHT IS REPLACED IN THE SAME LOCATION THE LIGHT WILL BE RESTORED WITHIN 5 WORKING DAYS. ALL LIGHTS WITHIN THE VICINITY OF THE PROJECT LIMIT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR IN TIMELY MANNER (WITHIN FORTY-EIGHT HOURS).

8. THE CONTRACTOR WILL KEEP PROPER RECORD OF ALL TRAFFIC AND PARKING SIGNS THAT WILL BE REMOVED PRIOR TO REMOVING THE STREET LIGHT POLE. THE SIGNS SHALL BE RELOCATED TO THE NEW POLE AT THE SAME HEIGHT AND ORIENTATION. A U-POLE SHALL BE INSTALLED TO MOUNT THE REPLACED SIGN IF A PROPOSED NEW POLE HAS A DIFFERENT LOCATION.

9. ALL POLE FOUNDATIONS WILL BE INSTALLED 3' FROM FACE OF CURB TO CENTER OF FOUNDATION UNLESS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD CHECK FOR ALL EXISTING LOCATIONS AND MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE NEW WORK FOR NO ADDITIONAL COST TO THE DISTRICT OF COLUMBIA GOVERNMENT.

LEGEND:

	EXISTING TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
	PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
	EXISTING 20 FOOT TRAFFIC SIGNAL POLE
	EXISTING PENDANT POST POLE
	EXISTING AD-11 TRAFFIC SIGNAL POLE
	EXISTING PEPCO WOOD POLE
	TO BE REMOVED
	PROPOSED 20 FEET TRAFFIC SIGNAL POLE
	PROPOSED PENDANT POST POLE
	PROPOSED NO. 716 STREETLIGHT POLE LUMINAIRE AND SUPPORTING ARM
	PROPOSED LOCATION FOR PEPCO POWER CONNECTION
	EXISTING CATCH BASIN
	EXISTING TREE
	EXISTING WHEELCHAIR RAMP
	PROPOSED WHEELCHAIR RAMP
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN MANHOLE
	EXISTING SEWER MANHOLE
	EXISTING WATER MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING PEPCO ELECTRICAL MANHOLE
	EXISTING GAS VALVE
	EXISTING WATER METER
	PROPOSED DDOT ELECTRICAL MANHOLE (4'X4'X4')
	PROPOSED DDOT ELECTRICAL MANHOLE (3'X3'X3')
	EXISTING DDOT ELECTRICAL MANHOLE (4'X4'X4')
	EXISTING ELECTRICAL LINE (FROM SURVEY)
	EXISTING ELECTRICAL LINE (FROM RECORD)
	EXISTING ELECTRICAL LINE TO BE ABANDONED
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	PROPOSED 1-2" & 1-4" ELECTRICAL PVC CONDUIT
	PROPOSED 4-4" ELECTRICAL PVC CONDUIT
	PROPOSED 1-2" ELECTRICAL PVC CONDUIT
	PROPOSED 2-4" ELECTRICAL PVC CONDUIT
	PROPOSED 1-4" ELECTRICAL PVC CONDUIT
	PROPOSED 6-4" ELECTRICAL PVC CONDUIT
	EXISTING DDOT CONDUIT
	RIGHT OF WAY LINE

ABBREVIATION LIST:

H.P.S.	HIGH PRESSURE SODIUM VAPOR
P#	PEPCO FEED POINT
Lxx -PP	INSTALL NEW STREETLIGHT AND PENDANT POLE
Lxx -716	INSTALL NEW NO. 716 STREETLIGHT POLE
Rxx -PP	REMOVE EXISTING STREETLIGHT AND PENDANT POLE
Lxx -WP	INSTALL NEW STREETLIGHT ON WOOD POLE
Rxx -WP	REMOVE EXISTING STREETLIGHT ON WOOD POLE

LT- 01

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	PROJECT ENG. _____ KJZ DESIGNED BY _____ DLS CHECKED BY _____ DSL DRAWN BY _____ KJZ PROJECT MGR. _____ KJZ
LEGEND AND GENERAL NOTES (PART II)	DIVISION CHIEF _____ DATE _____ FILE _____

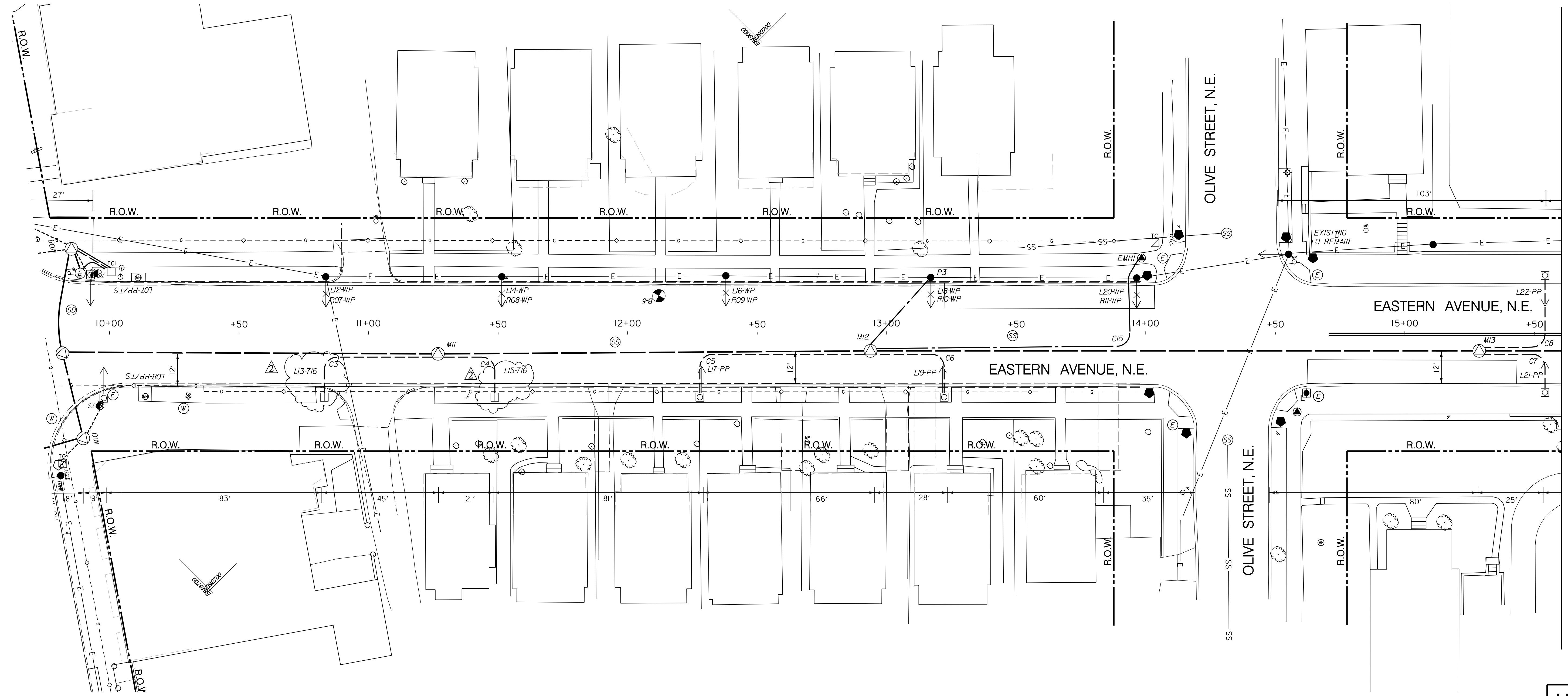
Precision Systems, Inc.
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WASHINGTON, D.C.

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NO	DESCRIPTION	NAME	DATE
1	CHANGE LT-13, 15 POLE FROM PEND POST TO NO 716	DLS	060510
REVISIONS			

P:\301008\A\After_Design\91_T-1001_301040-06040.dgn
 Friday, June 04, 2010 AT 01:33 PM
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 \$PLTDRV\$\$

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	210	242



MATCH LINE A-A
SEE SHEET "LT-03"

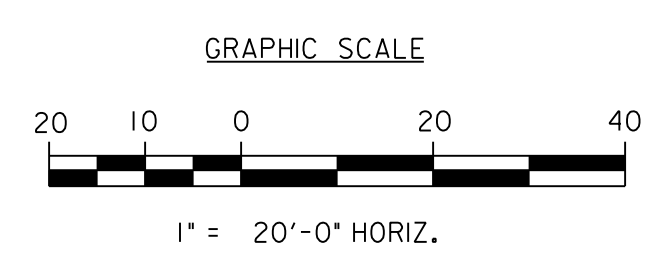
LT-02

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN I (PART II)

PROJECT ENG. <u> </u> KJZ	DESIGNED BY <u> </u> DLS
CHECKED BY <u> </u> DSL	DRAWN BY <u> </u> KJZ
PROJECT MGR. <u> </u> KJZ	DIVISION CHIEF
DATE <u> </u>	FILE <u> </u>

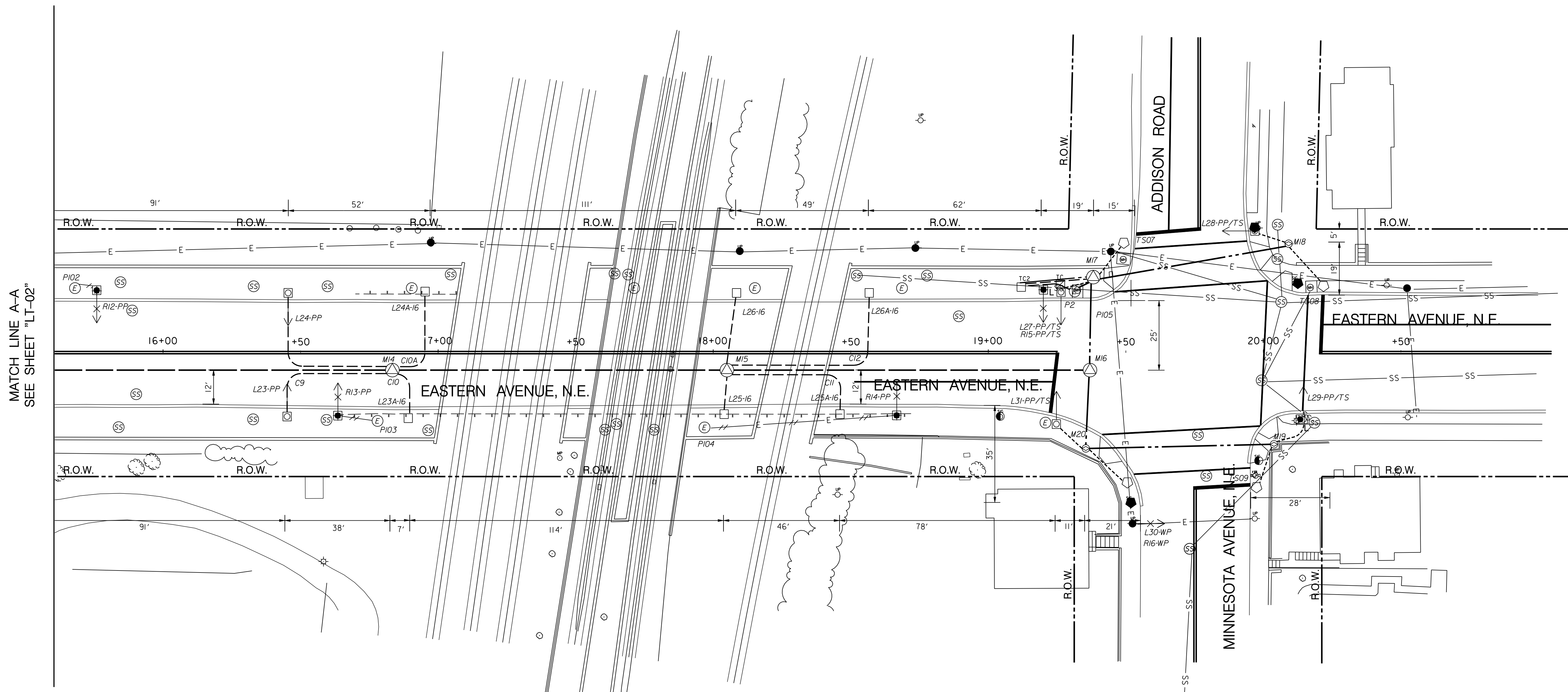


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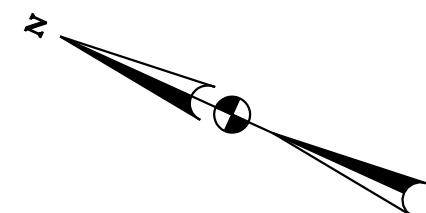
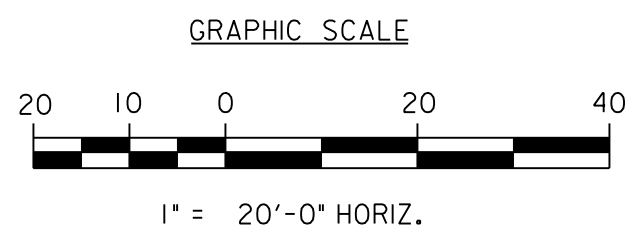
GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO	DESCRIPTION	NAME	DATE
1	CHANGE LT-13, 15 POLE FROM PEND POST TO NO 716	DLS	060510
REVISIONS			

P:\301008\A\After_Design\91_T-P001_30140-060410.dgn \$PENTBL\$\$ \$PLIDAVS\$ \$PLIDAVS\$
Friday, June 04, 2010 AT 01:33 PM



MATCH LINE A-A
SEE SHEET "LT-02"



LT- 03

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN II (PART II)

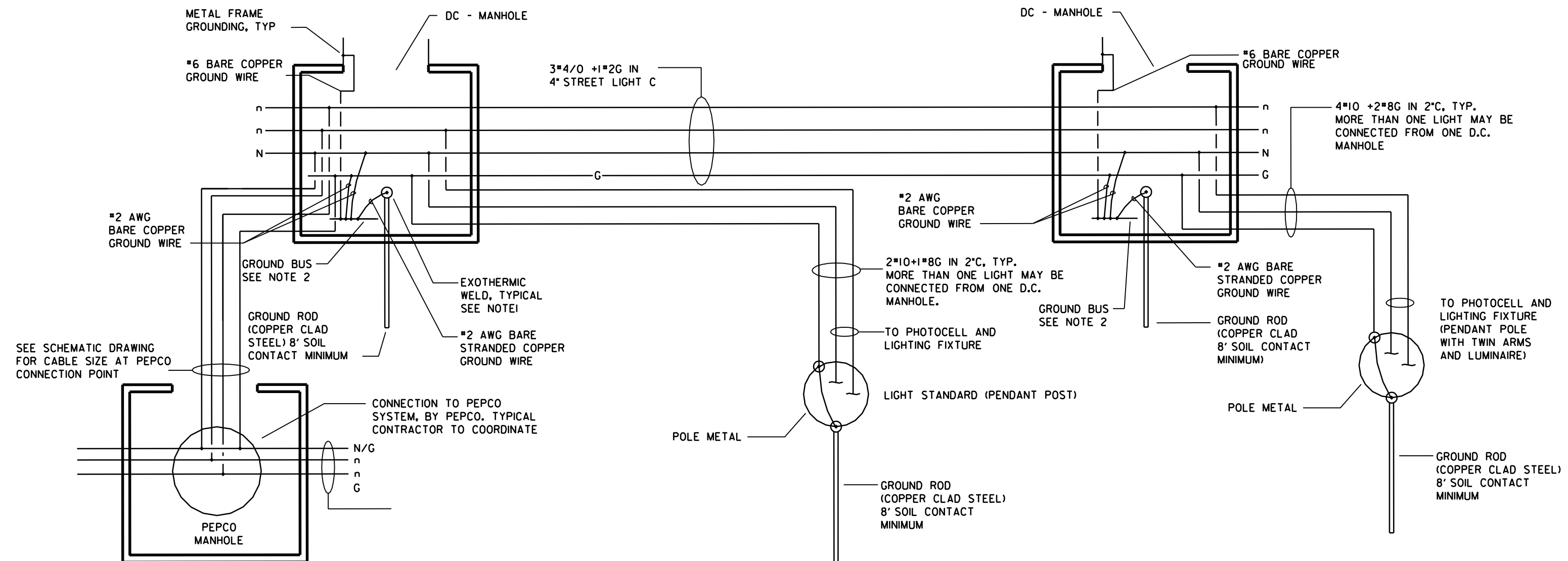
PROJECT ENG.	KJZ
DESIGNED BY	DLS
CHECKED BY	DLS
DRAWN BY	KJZ
PROJECT MGR.	KJZ
DIVISION CHIEF	
DATE	
FILE	

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NO	DESCRIPTION	NAME	DATE
REVISIONS			

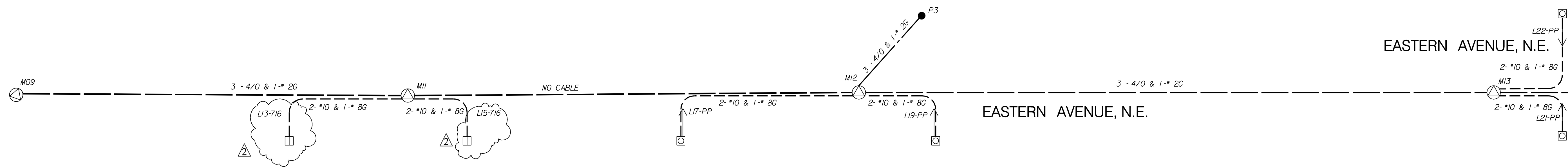
P:\30404\Lighting\Plan\Package_2\PLT-P002_3040.dgn
 Wednesday, April 23, 2008 AT 01:34 PM
 SPL IDRVY\$
 SPENTBL\$



TYPICAL WIRING DIAGRAM
NOT TO SCALE

GENERAL NOTES:

1. PROVIDE TWO COATS OF ELECTRICAL WATERPROOF COATING OVER WELD AND BARE METALS IN THE SURROUNDING AREAS. REQUIREMENT IS TYPICAL FOR ALL EXOTHERMIC WELD FOR GROUND CONNECTION.
2. PROVIDE A 2\"/>



OLIVE STREET, N.E.

OLIVE STREET, N.E.

EASTERN AVENUE, N.E.

EASTERN AVENUE, N.E.

MATCH LINE A-A
SEE SHEET "LT-05"

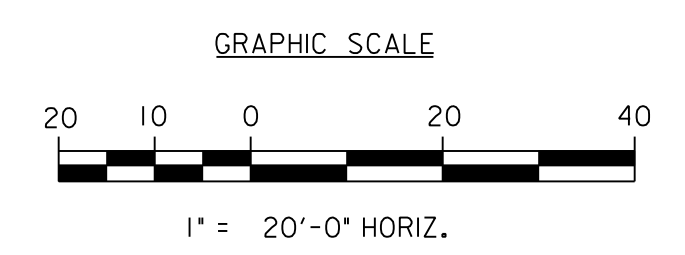
LT-04

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING SCHEMATIC I (PART II)

PROJECT ENG.	KJZ
DESIGNED BY	DLS
CHECKED BY	DLS
DRAWN BY	KJZ
PROJECT MGR.	KJZ
DIVISION CHIEF	
DATE	
FILE	

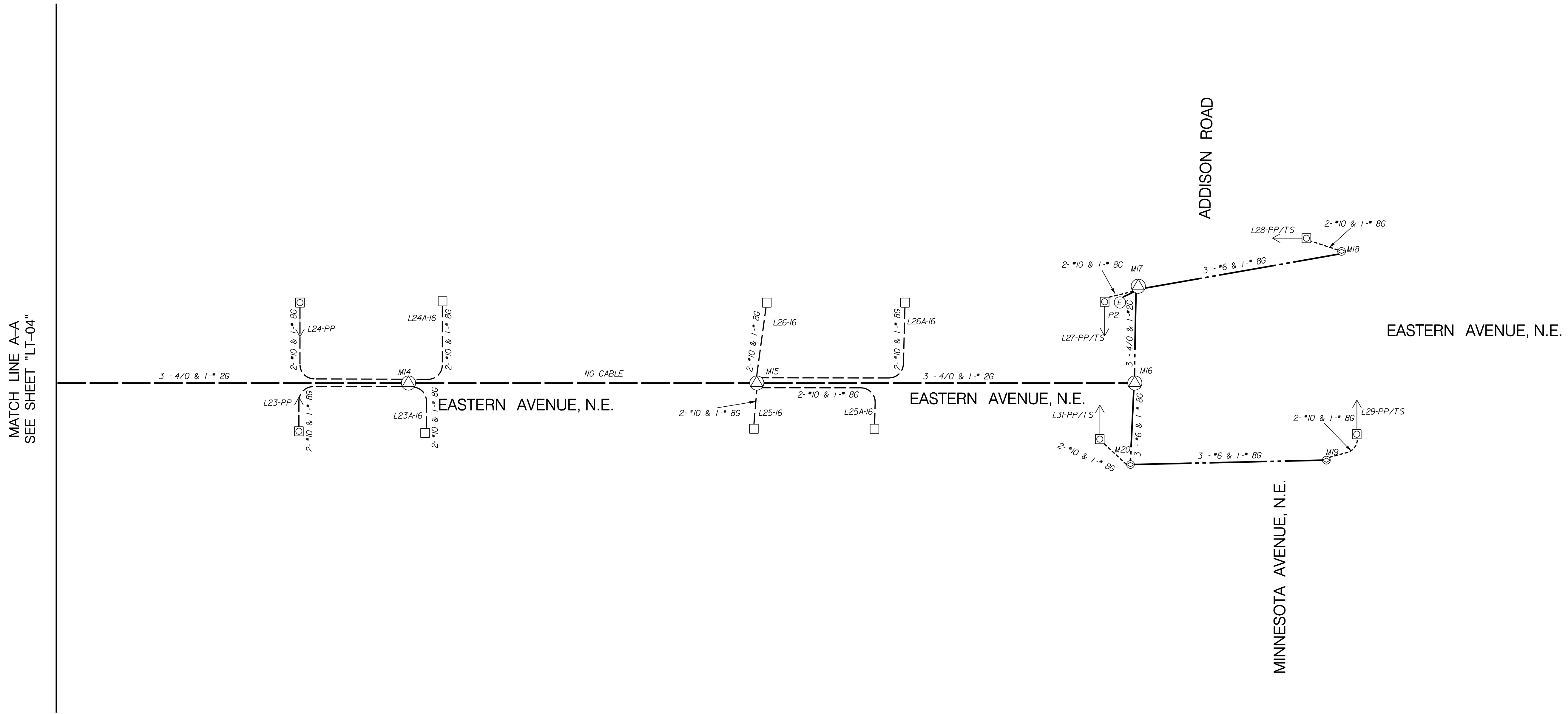


NO	DESCRIPTION	NAME	DATE
1	CHANGE LT-13, 15 POLE FROM PEND POST TO NO 716	DLS	060510

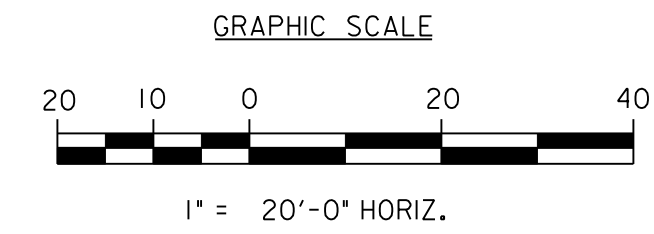
REVISIONS

P:\301008\After Design\911_5001_30140-0604\0.dgn \$PENTBL\$\$ \$PLTDRV\$\$ \$PLTDRV\$\$ Friday, June 04, 2010 AT 01:34 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	213	242



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NO	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

LIGHTING SCHEMATIC II (PART II)

PROJECT ENG. <u> KJZ </u> DESIGNED BY <u> DLS </u> CHECKED BY <u> DSL </u> DRAWN BY <u> KJZ </u> PROJECT MGR. <u> KJZ </u>	DIVISION CHIEF DATE _____ FILE _____
--	--

LT- 05

CONDUIT SUMMARY												
SCHEDULE			617 030	617 032	617 034	618 072	618 148	618 150	618 152	618 160	618 163	618 161
PAY ITEM NUMBER		DISTANCE	2-4" & 1-2"	1-4" & 1-2"	4-4"	1-2"	6-4"	6-4" & 1-2"	6-4" & 2-2"	2-4"	8-4"	8-4" & 1-2"
FROM STA.	TO STA.											
M09	C3	98					98					
C3	L13-716	12				12						
C3	M11	43						43				
M11	C4	19						19				
C4	L15-716	12				12						
C4	C5	79					79					
C5	L17-PP	12				12						
C5	M12	63						63				
P3	M12	33								33		
M12	C6	26										26
C6	L19-PP	12				12						
C6	C15	71									81	
C15	EMH1	35								35		
C15	M13	132					132					
M13	C8	23							23			
C7	L21-PP	12				12						
C7	L22-PP	26				26						
C8	C9	91					91					
C9	L23-PP	12				12						
C9	L24-PP	26				26						
C9	M14	35							35			
M14	C10	3					116		3			
C10	L23A-16	12				12						
C10	C10A	6						6				
C10A	L24A-16	26				16						
C10A	M15	107					107					
M15	L25-16	12				12						
M15	L26-16	26				26						
M15	C11	39					127		39			
C11	L25A-16	12				12						
C11	C12	10						10				
C12	L26A-16	26				26						
C12	M16	78					78					
M16	M17	29			29							
M17	L27-PP/TS	8		8								
M17	TS07	14		14								
P2	M17	3								3		
M17	TC2	22	22									
P2	TC2	26				26						
M17	M18	68			68							
M18	L28-PP/TS	10		10								
M18	TS08	16		16								
M16	M20	24			24							
M20	L31-PP/TS	10		10								
M20	TS	16		16								
M20	M19	65			65							
M19	TS09	13		13								
M19	L29-PP/TS	11		11								
TOTAL			22	98	186	254	828	141	100	71	81	26

LT- 06

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ELECTRICAL TABLES I (PART II)

PROJECT ENG. KZJ
DESIGNED BY DLS
CHECKED BY DSL
DRAWN BY KZJ
PROJECT MGR. KZJ

DIVISION CHIEF

DATE _____
FILE _____



Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C.



GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO	DESCRIPTION	NAME	DATE
1	CHANGE LT-13, 15 POLE FROM PEND POST TO NO 716	DLS	060510
REVISIONS			

P:\301005\After Design\911-T001_30140-0604\0.dgn \$PENTBL\$\$ \$PLTDRV\$\$
 Friday, June 04, 2010 AT 01:34 PM

CABLE SUMMARY							
SCHEDULE			QUANTITY				
			CABLE			GROUND WIRE	
PAY ITEM NUMBER			618 250	618 202	618 190	618 310	618 292
FROM STA.	TO STA.	DISTANCE	4/0	#6	#10	#2	#8
M09	M11	141	453			151	
M11	L13-716	55			120		60
M11	L15-716	31			72		36
M12	L17-PP	75			160		80
M12	L19-PP	38			86		43
P3	M12	33	189			63	
M12	M13	229	717			239	
M13	L21-PP	35			80		40
M13	L22-PP	49			108		54
M13	M14	149	477			159	
M14	L23-PP	47			104		52
M14	L24-PP	61			132		66
M14	L23A-16	15			40		20
M14	L24A16	35			80		40
M15	L25-16	12			34		17
M15	L26-16	26			62		31
M15	L25A-16	51			112		56
M15	L26A-16	75			160		80
M15	M16	127	411			137	
M16	M17	29	117			39	
P2	M17	3	39			13	
M17	M18	68		234			78
M17	L27-PP/TS	8			26		13
M18	L28-PP/TS	10			30		15
M16	M20	24		102			34
M20	L31-PP/TS	10			30		15
M20	M19	65		225			75
M19	L29-PP/TS	11			32		16
TOTAL			2403	561	1468	801	921

STREETLIGHT MANHOLE INFORMATION (INSTALLS)			
MANHOLE NO.	MD GRID PLAT	MD GRID NO.	ACTION REQUIRED
P2	819392	427145	CUT MANHOLE WALL, INSTALL CONDUIT, REPAIR WALL AND CLEAN MANHOLE OF ALL CONSTRUCTION DEBRIS, PEPCO TO INSTALL CABLES AND MAKE SPLICES
P3	818392	9759	CUT MANHOLE WALL, INSTALL CONDUIT AND CABLES, REPAIR WALL AND CLEAN MANHOLE OF ALL CONSTRUCTION DEBRIS, PEPCO TO MAKE FINAL SPLICES

STREETLIGHT MANHOLE REMOVAL INFORMATION			
MANHOLE NO.	MD GRID PLAT	MD GRID NO.	ACTION REQUIRED
P102	819392	167408	CUT, TAPE AND REMOVE CABLES, ABANDON AND SEAL CONDUITAND REMOVE ALL DEBRIS FROM CONSTRUCTION
P103	819392	220292	CUT, TAPE AND REMOVE CABLES, ABANDON AND SEAL CONDUITAND REMOVE ALL DEBRIS FROM CONSTRUCTION
P104	819392	285275	CUT, TAPE AND REMOVE CABLES, ABANDON AND SEAL CONDUITAND REMOVE ALL DEBRIS FROM CONSTRUCTION
P105	819392	427145	CUT, TAPE AND REMOVE CABLES, CONDUIT TO REMAIN FOR TRAFFIC SIGNALS

LT- 07

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ELECTRICAL TABLES II (PART II)

PROJECT ENG. KJZ
DESIGNED BY DLS
CHECKED BY DSL
DRAWN BY KJZ
PROJECT MGR. KJZ

DIVISION CHIEF

DATE
FILE



Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C.



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NO	DESCRIPTION	NAME	DATE
1	CHANGE LT-13, 15 POLE FROM PEND POST TO NO 716	DLS	060510
REVISIONS			

P:\301005\After Design\91_T-TO02_30140-060410.dgn \$PENTBL\$\$ \$PLTDRV\$\$
Friday, June 04, 2010 AT 01:34 PM

STREET LIGHT POLE INFORMATION (INSTALLS)								
LIGHT NO.	MD GRID PLAT	MD GRID NO.	LOCATION	POLE TYPE	LIGHT SOURCE	LAMP WATTS	REMARKS	DATE IN SERVICE
L12-PP	818392	8274	N/S EASTERN AVE, N.E. 1ST LIGHT E/O KENILWORTH AVE.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L13-716	818392	831782	S/S EASTERN AVE, N.E. 1ST LIGHT E/O KENILWORTH AVE.	NO. 716 (BLACK)	HPS	250W		
L14-PP	818392	8868	F/O 1613 EASTERN AVENUE, N.E.	WOOD POLE	HPS	250W	TEAR DROP	
L15-716	818392	858722	F/O 1618 EASTERN AVENUE, N.E.	NO. 716 (BLACK)	HPS	250W		
L16-PP	818392	9264	F/O 1609 EASTERN AVENUE, N.E.	WOOD POLE	HPS	250W	TEAR DROP	
L17-PP	818392	891650	F/O 1810 EASTERN AVENUE, N.E.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L18-PP	818392	9759	F/O 1605 EASTERN AVENUE, N.E.	WOOD POLE	HPS	250W	TEAR DROP	
L19-PP	818392	931563	F/O 1602 EASTERN AVENUE, N.E.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L20-PP	819392	0855	NW CORNER EASTERN AVENUE & OLIVE STREET, N.E.	WOOD POLE	HPS	400W	TEAR DROP	
L21-PP	819392	027454	S/S EASTERN AVE, N.E. 1ST LIGHT E/O OLIVE ST.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L22-PP	819392	068472	N/S EASTERN AVE, N.E. 1ST LIGHT E/O OLIVE ST.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L23-PP	819392	200326	S/S EASTERN AVE, N.E. 2ND LIGHT E/O OLIVE ST.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L23A-16	819392	209287	S/S EASTERN AVE, N.E. 3RD LIGHT E/O OLIVE ST.	16CI(BLACK)	HPS	250W		
L24-PP	819392	241345	N/S EASTERN AVE, N.E. 2ND LIGHT E/O OLIVE ST.	PEND POST(BLACK)	HPS	250W	TEAR DROP	
L24A-16	819392	262300	N/S EASTERN AVE, N.E. 3RD LIGHT E/O OLIVE ST.	16CI(BLACK)	HPS	250W		
L25-16	819392	279165	S/S EASTERN AVE, N.E. 4TH LIGHT E/O OLIVE ST.	16CI(BLACK)	HPS	250W		
L26-16	819392	321179	N/S EASTERN AVE, N.E. 4TH LIGHT E/O OLIVE ST.	16CI(BLACK)	HPS	250W		
L26A-16	819392	296127	S/S EASTERN AVE, N.E. 5TH LIGHT E/O OLIVE ST.	16CI(BLACK)	HPS	250W		
L27A-16	819392	341135	N/S EASTERN AVE, N.E. 5TH LIGHT E/O OLIVE ST.	16CI(BLACK)	HPS	250W		
L27-PP/TS	819392	445139	NW COR EASTERN AVE, MINNESOTA AVE, N.E.	PEND POST(BLACK)	HPS	400W	TEAR DROP	
L28-PP/TS	819392	478083	NE COR EASTERN AVE, MINNESOTA AVE, N.E.	PEND POST(BLACK)	HPS	400W	TEAR DROP	
L29-PP/TS	819392	421042	SE COR EASTERN AVE, MINNESOTA AVE, N.E.	PEND POST(BLACK)	HPS	400W	TEAR DROP	
L30-WP/TS	819392	3808	SW COR EASTERN AVE, MINNESOTA AVE, N.E.	WOOD POLE	HPS	400W	TEAR DROP	
L31-PP/TS	819392	401120	SW COR EASTERN AVE, MINNESOTA AVE, N.E.	PEND POST(BLACK)	HPS	250W	TEAR DROP	

STREET LIGHT POLE INFORMATION (REMOVALS)								
LIGHT NO.	MD GRID PLAT	MD GRID NO.	LOCATION	POLE TYPE	LIGHT SOURCE	LAMP WATTS	REMARKS	DATE REMOVED FROM SERVICE
R07-WP	818392	8274	N/S EASTERN AVE, N.E. 1ST LIGHT E/O KENILWORTH AVE.	WOOD POLE	HPS	400W		
R08-WP	818392	8868	F/O 1613 EASTERN AVE, N.E.	WOOD POLE	HPS	400W		
R09-WP	818392	9264	F/O 1609 EASTERN AVE, N.E.	WOOD POLE	HPS	400W		
R10-WP	818392	9759	F/O 1605 EASTERN AVE, N.E.	WOOD POLE	HPS	400W		
R11-WP	819392	0855	NW CORNER EASTERN AVENUE & OLIVE STREET, N.E.	WOOD POLE	HPS	400W		
R12-PP	819392	169395	N/S EASTERN AVE, N.E. 1ST LIGHT E/O OLIVE ST.	PEND POST	HPS	400W		
R13-PP	819392	209310	S/S EASTERN AVE, N.E. 1ST LIGHT E/O OLIVE ST.	PEND POST	HPS	400W		
R14-PP	819392	351162	S/S EASTERN AVE, N.E. 2ND LIGHT E/O OLIVE ST.	PEND POST	HPS	400W		
R15-PP/TS	819392	420155	NW COR EASTERN AVE, MINNESOTA AVE, N.E.	PEND POST	HPS	400W		
R16-WP/TS	819392	3808	SW COR EASTERN AVE, MINNESOTA AVE, N.E.	WOOD POLE	HPS	400W		
R17-PP	818392	564888	W/S SERVICE ROAD KENILWORTH AVE. @ EASTERN AVE, N.E.	PEND POST	HPS	400W		

LT- 08

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

ELECTRICAL TABLES III (PART II)

PROJECT ENG. KJZ
DESIGNED BY DLS
CHECKED BY DLS
DRAWN BY KJZ
PROJECT MGR. KJZ

DIVISION CHIEF

DATE
FILE

NO	DESCRIPTION	NAME	DATE

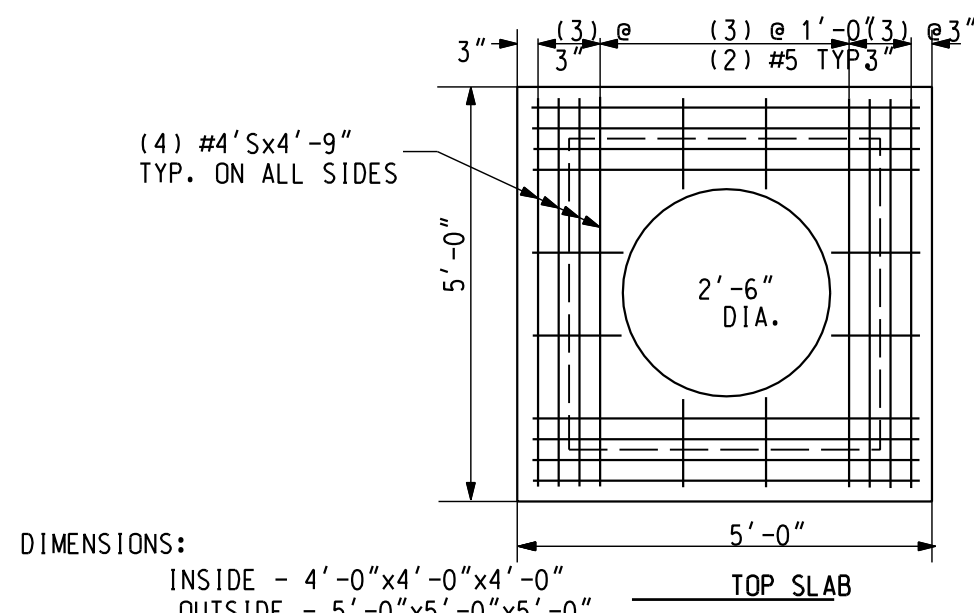
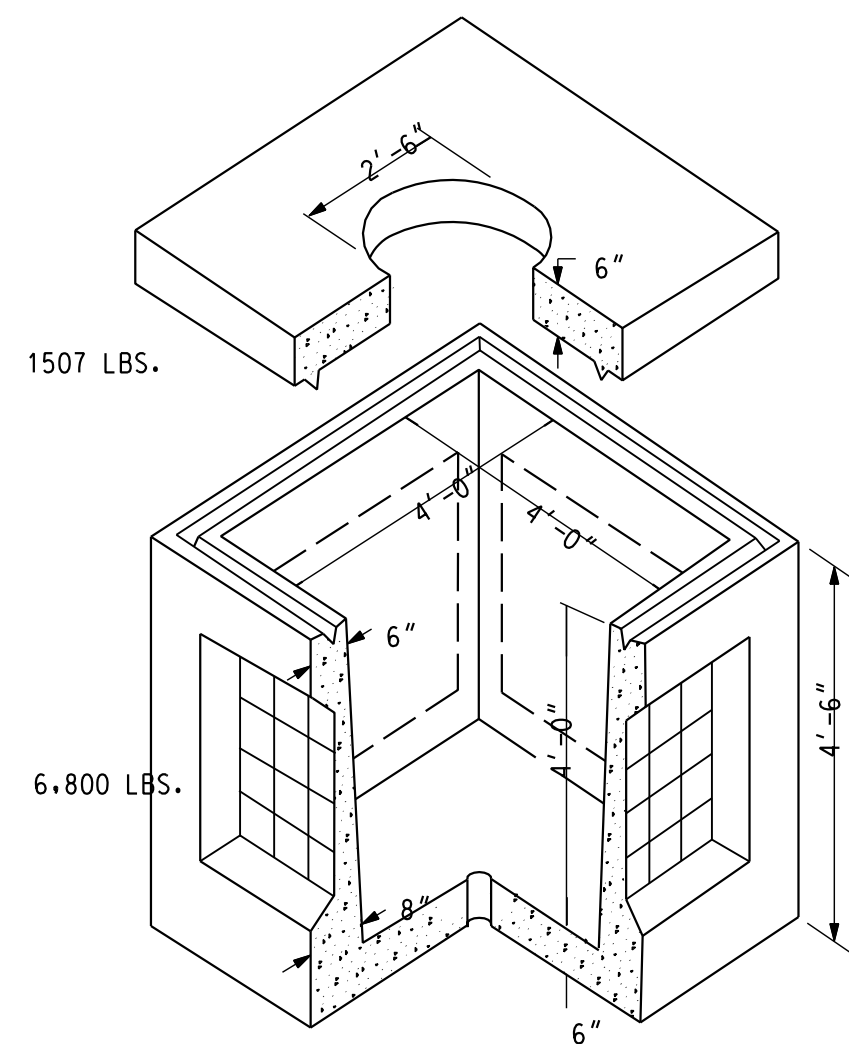


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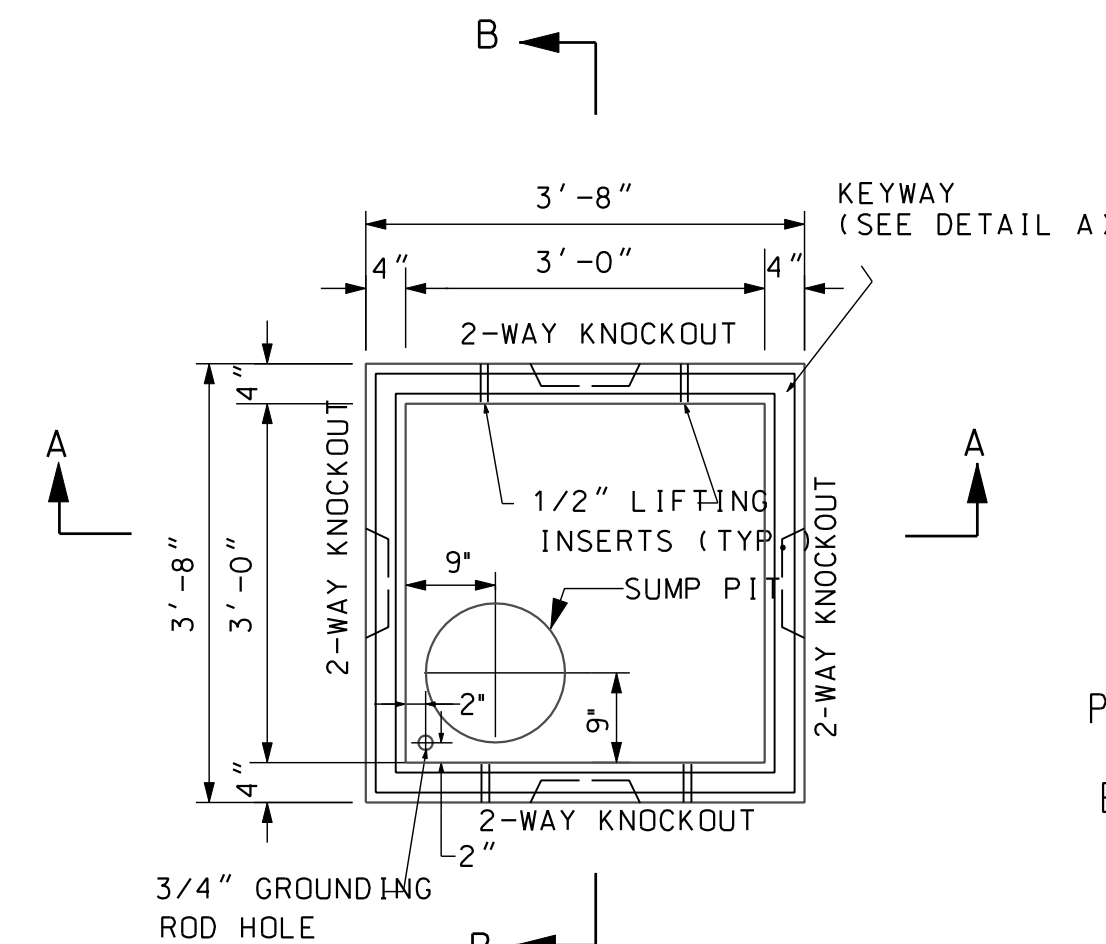
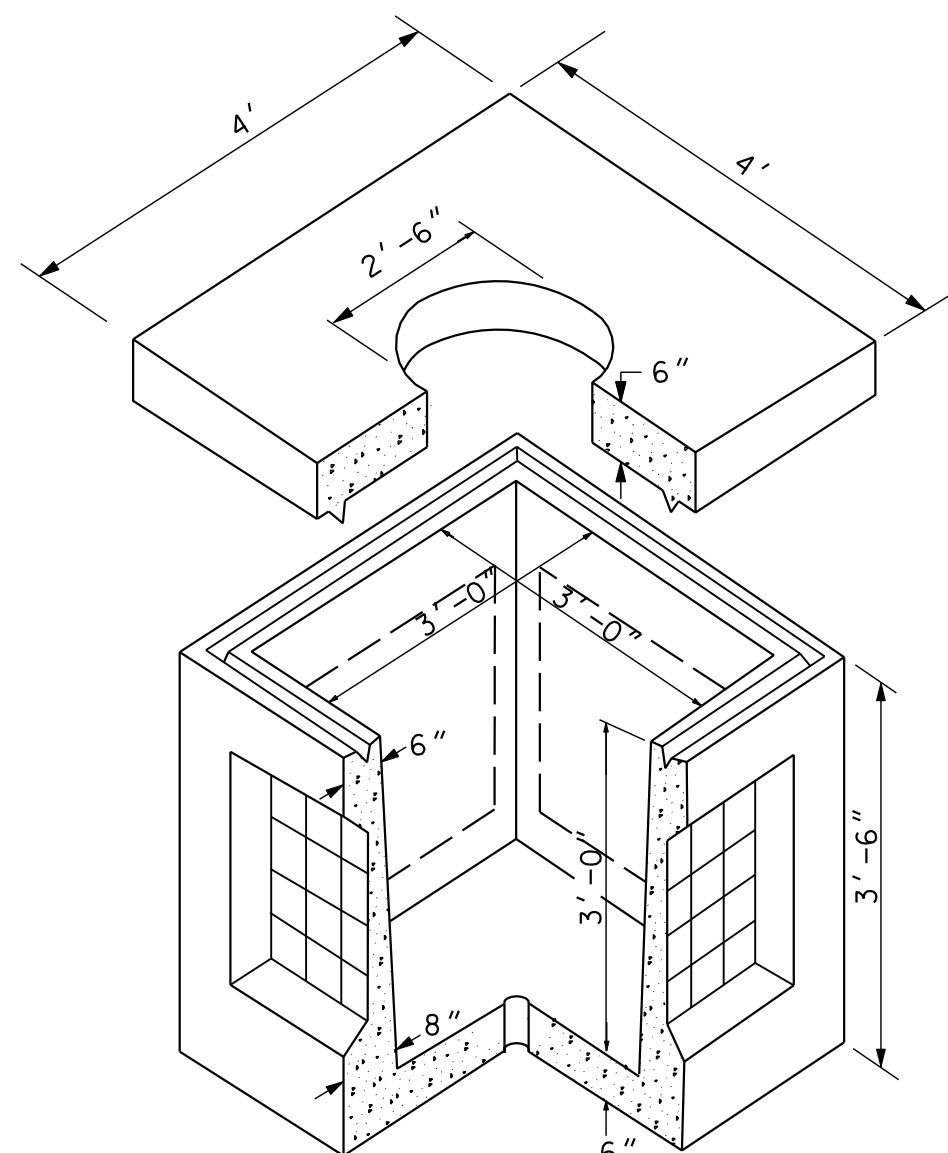


DIMENSIONS:
INSIDE - 4'-0" x 4'-0" x 4'-0"
OUTSIDE - 5'-0" x 5'-0" x 5'-0"

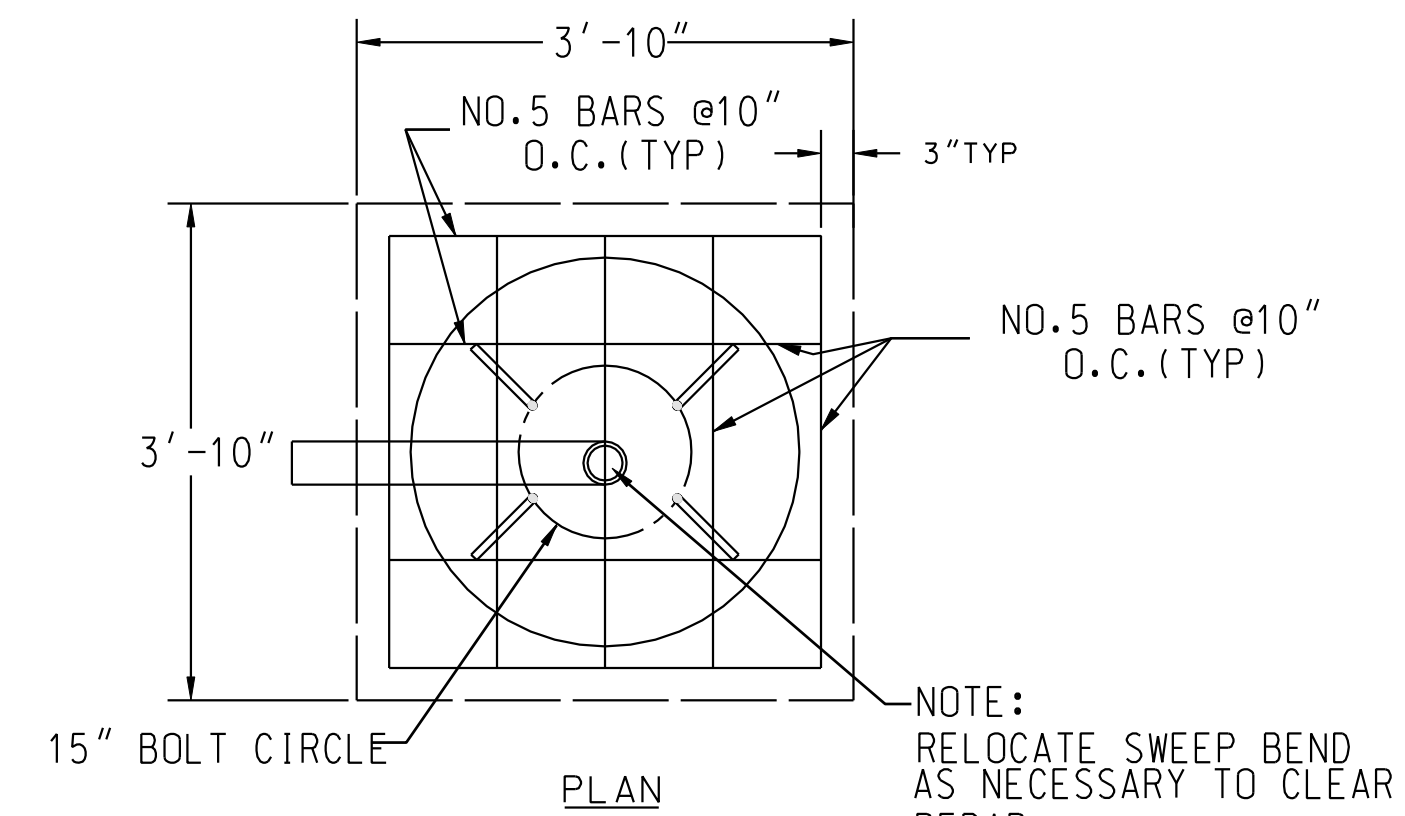
KNOCKOUTS:
ALL WALLS - 3'-6" x 2'-10", 1 PER WALL

TOTAL WEIGHT:
8,373 LBS.

KNOCKOUT PANEL:
2 1/2" SOLID CONCRETE WITH 6x6, 6/6 WWF AT CENTER LAP 6" INTO SLABS.



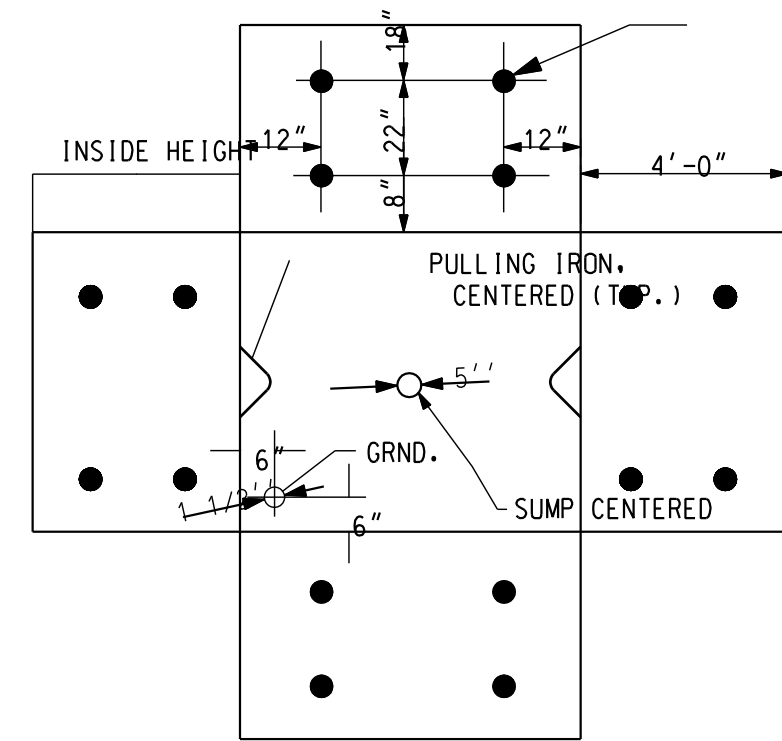
PLAN



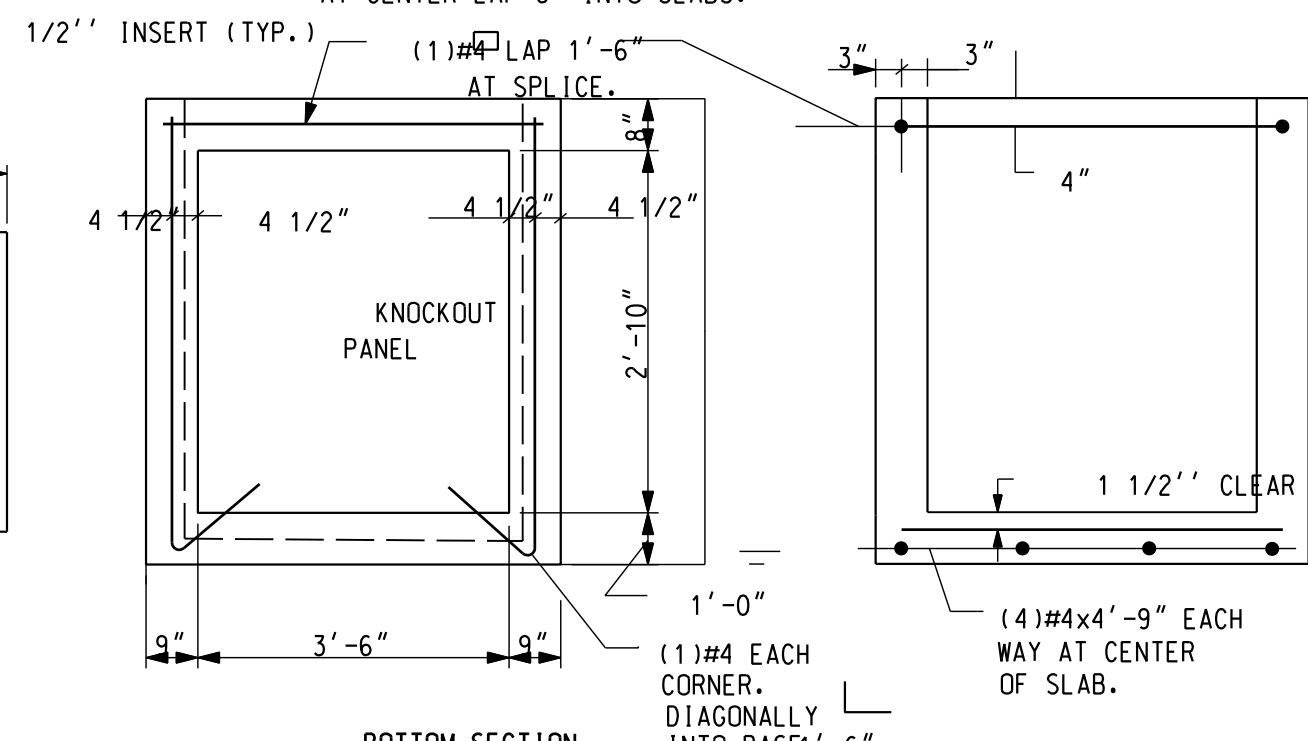
PLAN

ATTENTION
POLE HEIGHT
MUST NOT
EXCEED 30'

NOTE:
RELOCATE SWEEP BEND
AS NECESSARY TO CLEAR
REBAR



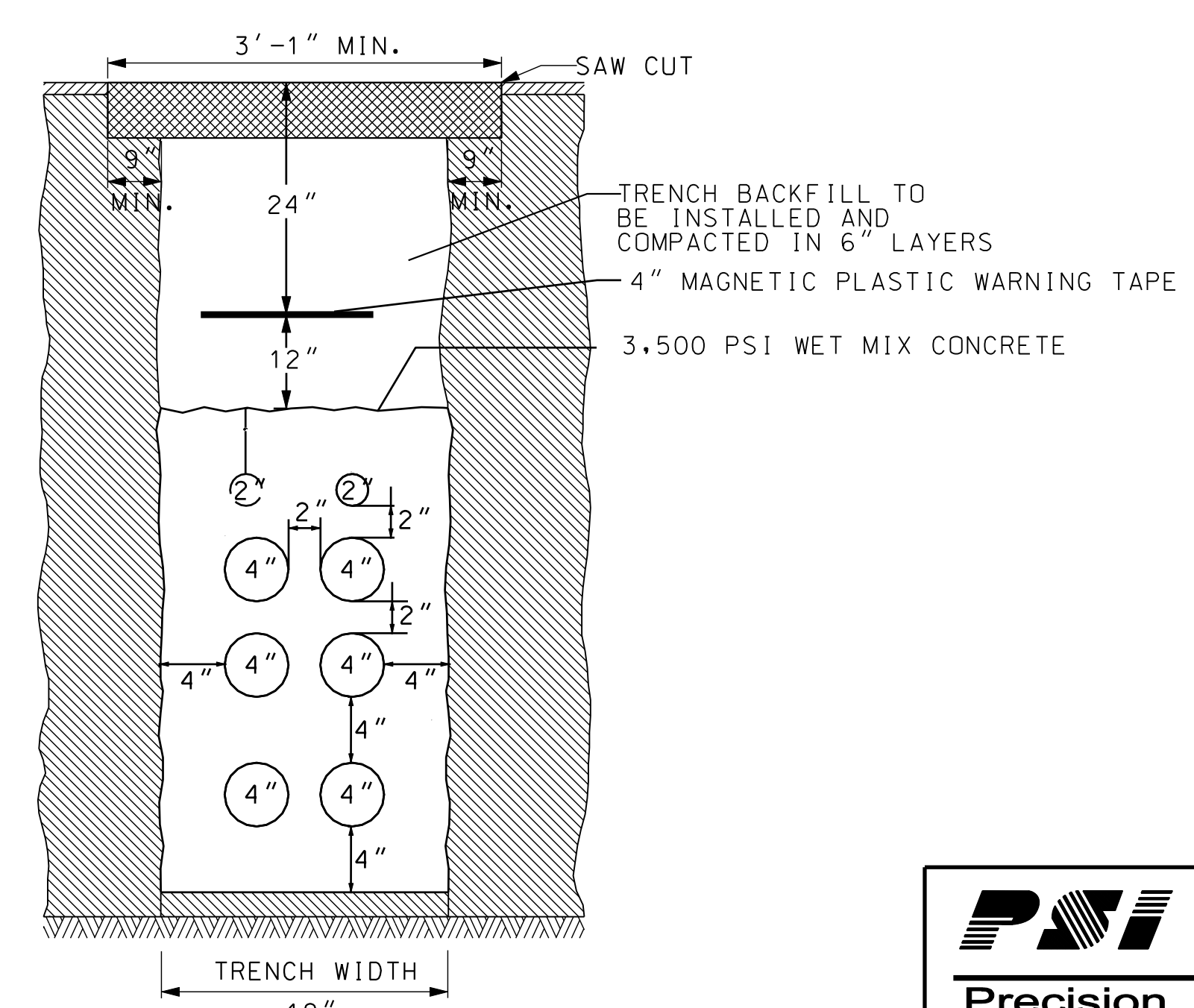
INSERT PLACEMENT SCHEDULE



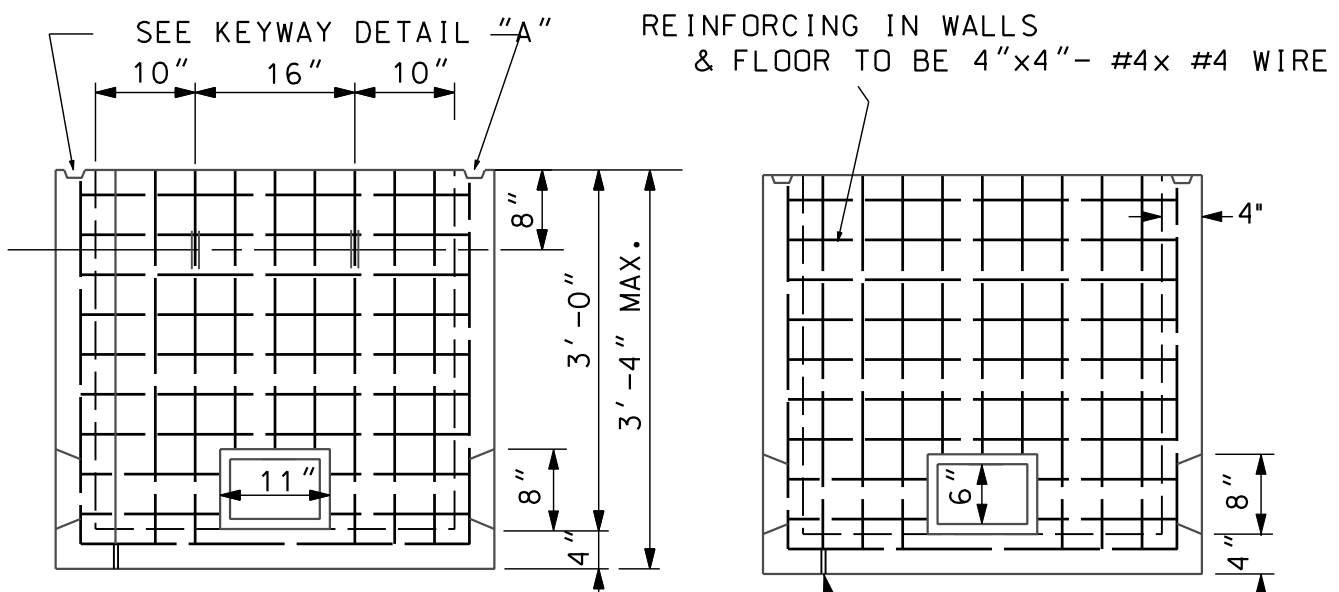
BOTTOM SECTION

4' X 4' X 4' MANHOLE

TYPICAL CROSS SECTION OF
STREETLIGHT CONDUIT DUCT BANK



TRENCH WIDTH
19"

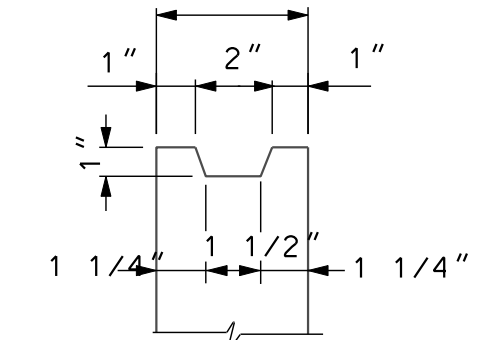


SECTION A-A

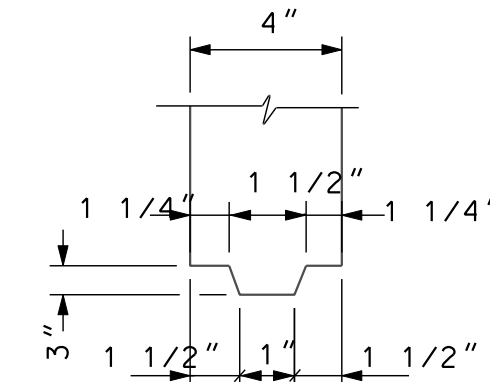
SECTION B-B

3' X 3' X 3' MANHOLE

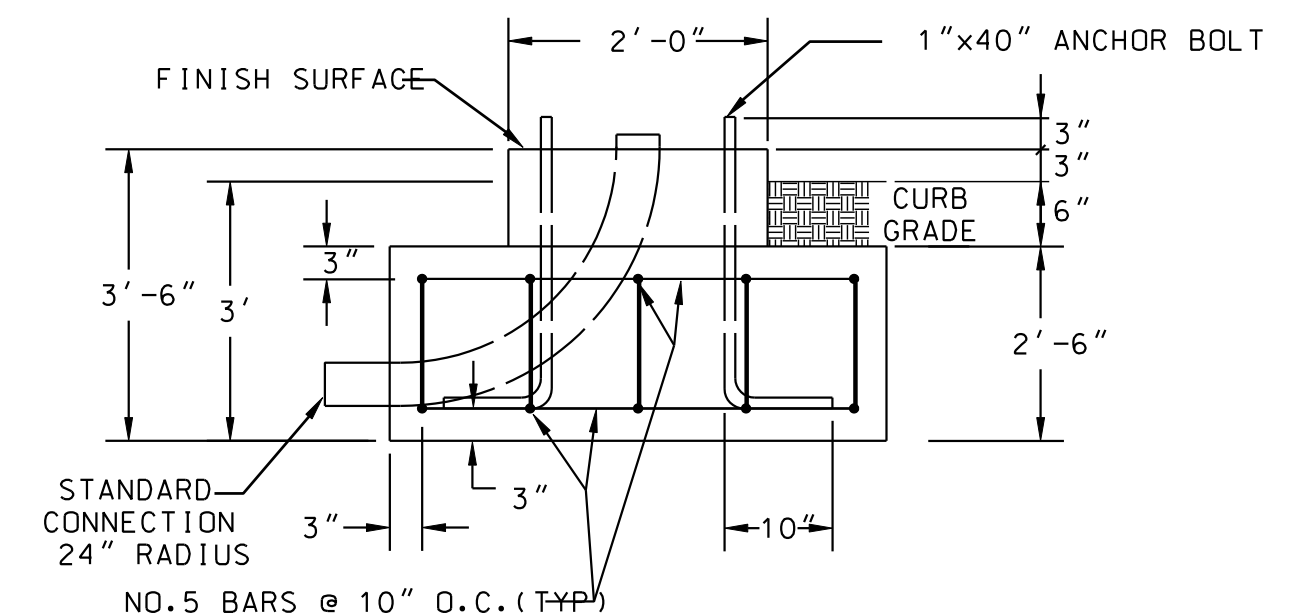
NOTES:
1. CLASS B CONCRETE.
2. HANDHOLE WILL BE DESIGNED FOR MINIMUM H2O LOADING AND SUPPLIER IS TO PROVIDE CERTIFIED DESIGN CALCULATIONS FOR RECORD OR FOR APPROVAL.



DETAIL "A"



DETAIL "B"



ELEVATION

SPREAD FOOTER FOUNDATION

NOTE:
FOUNDATION CAP TO BE POURED BASED ON POLE TYPE TO BE USED AT THAT LOCATION.

LT-09

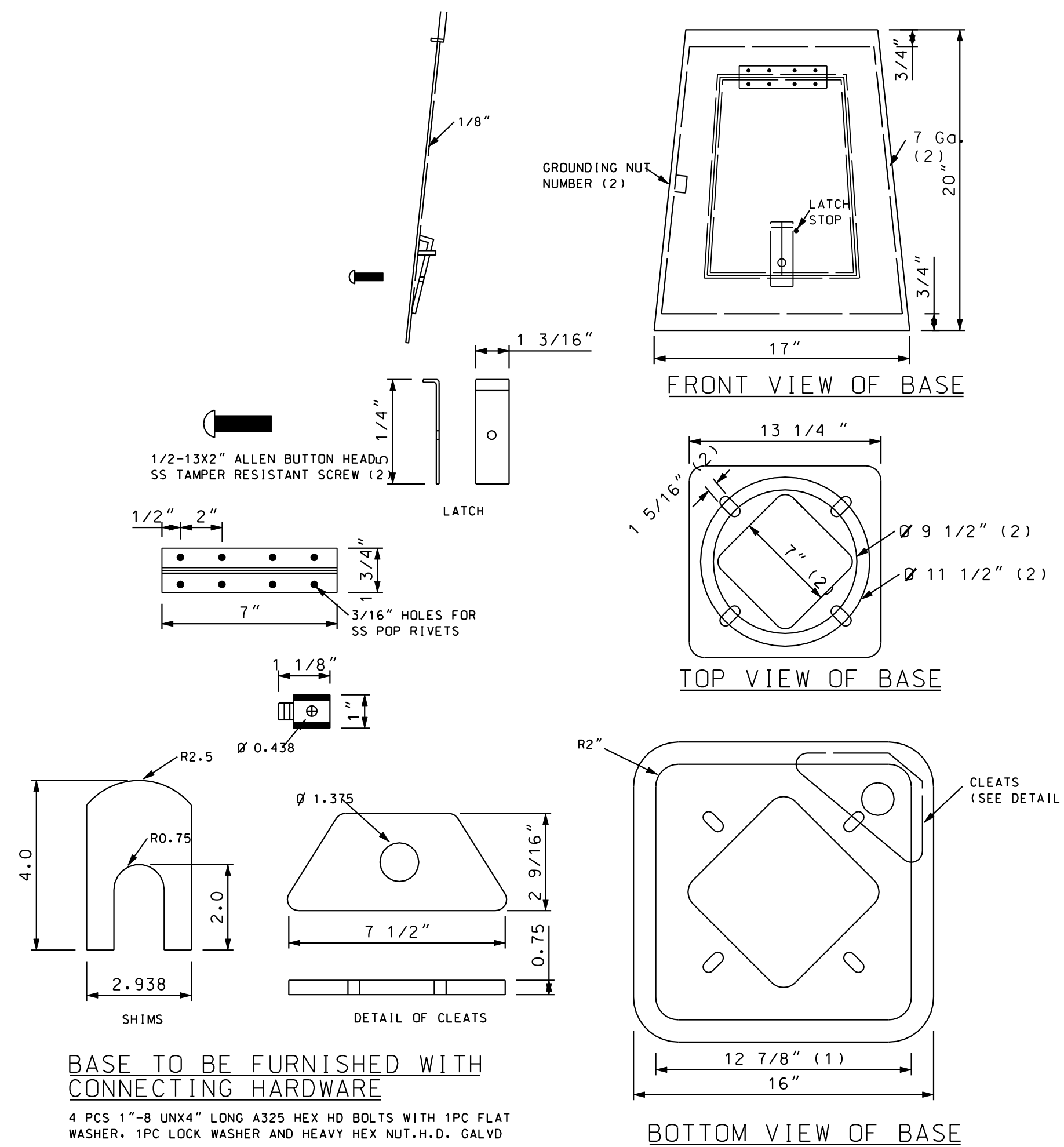
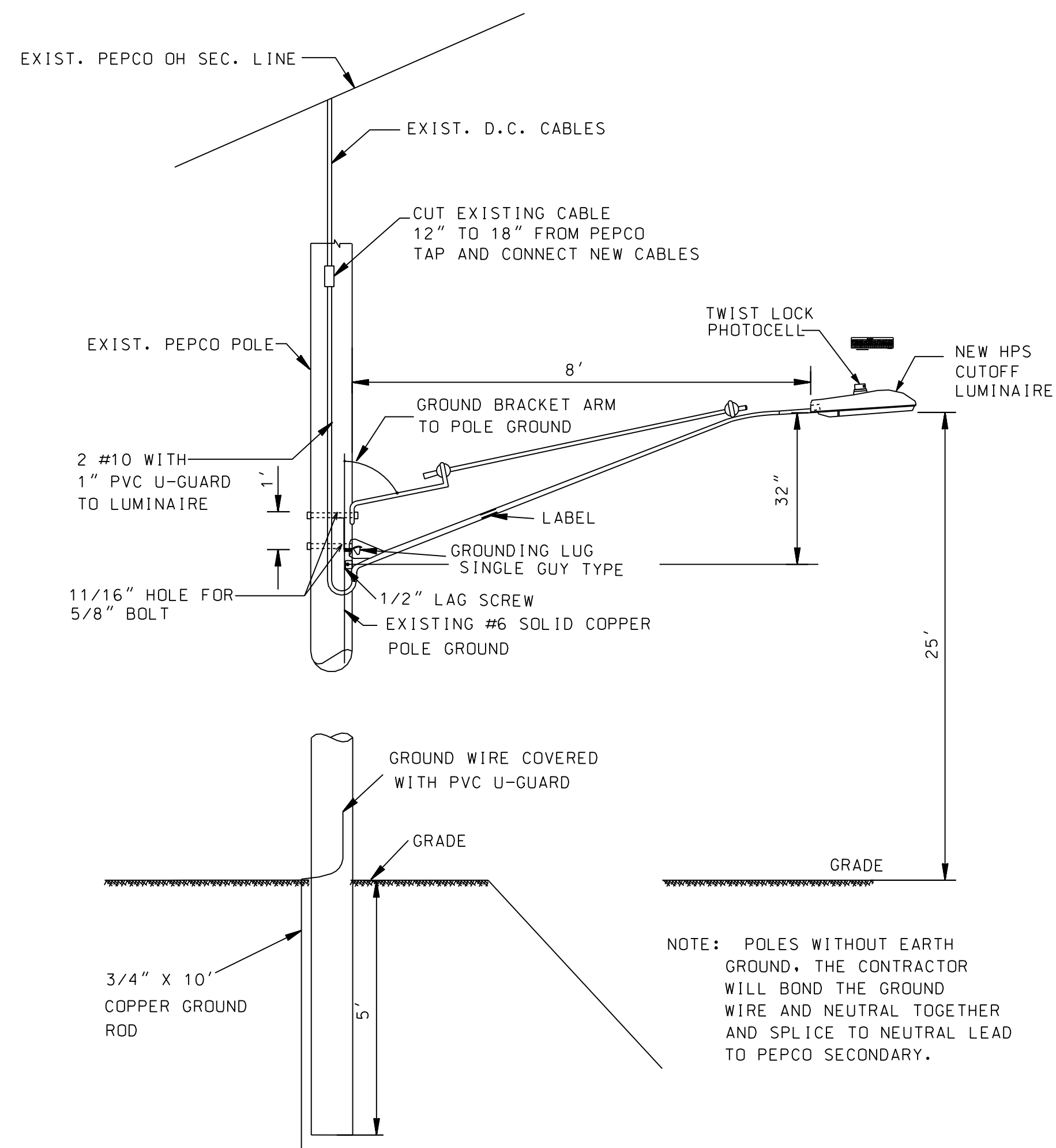
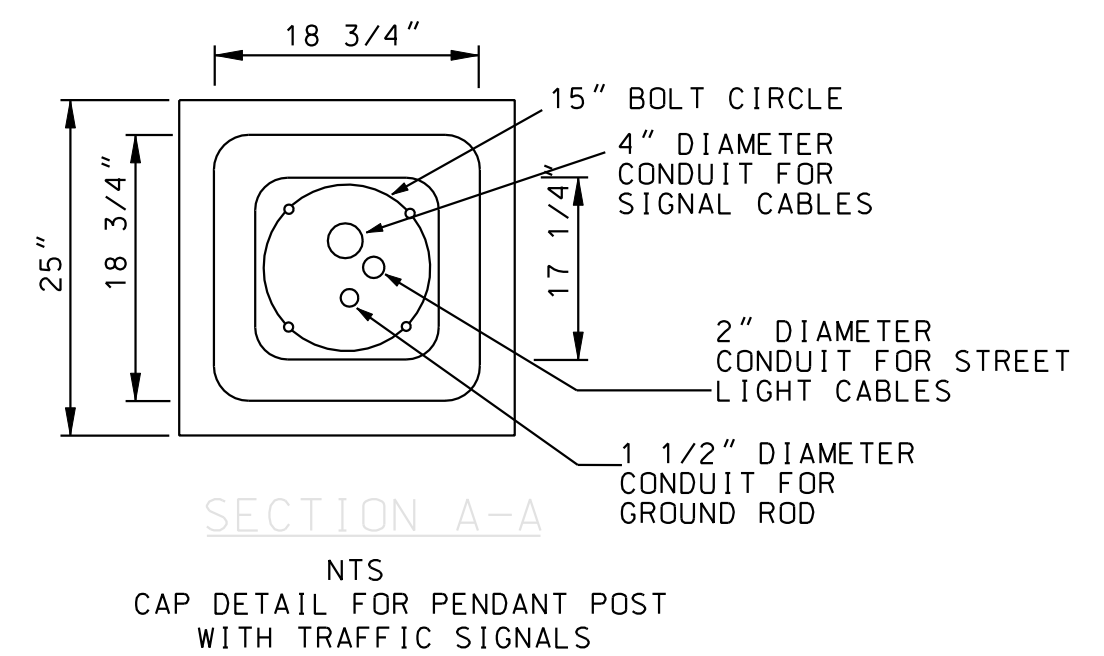
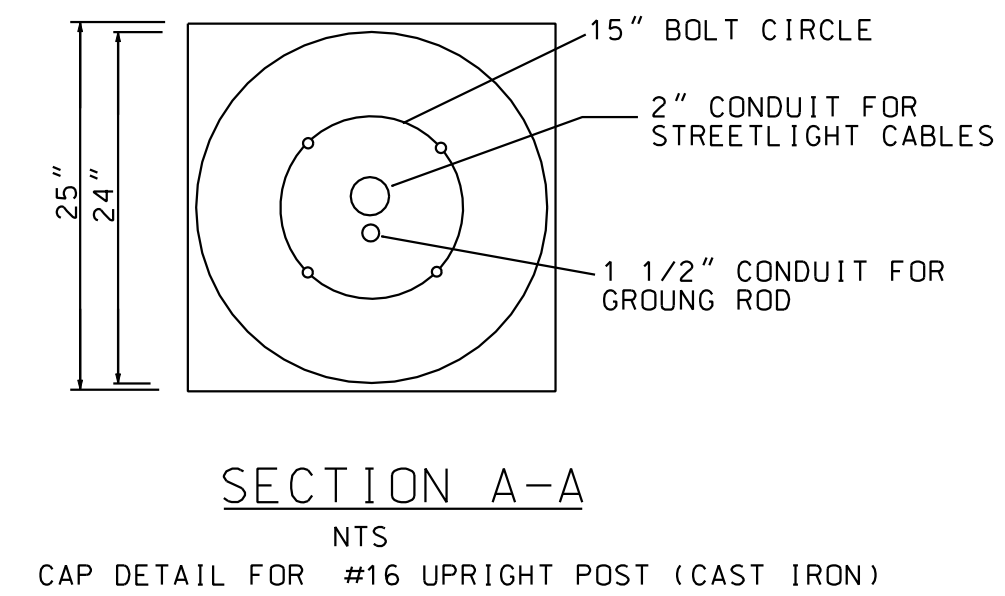
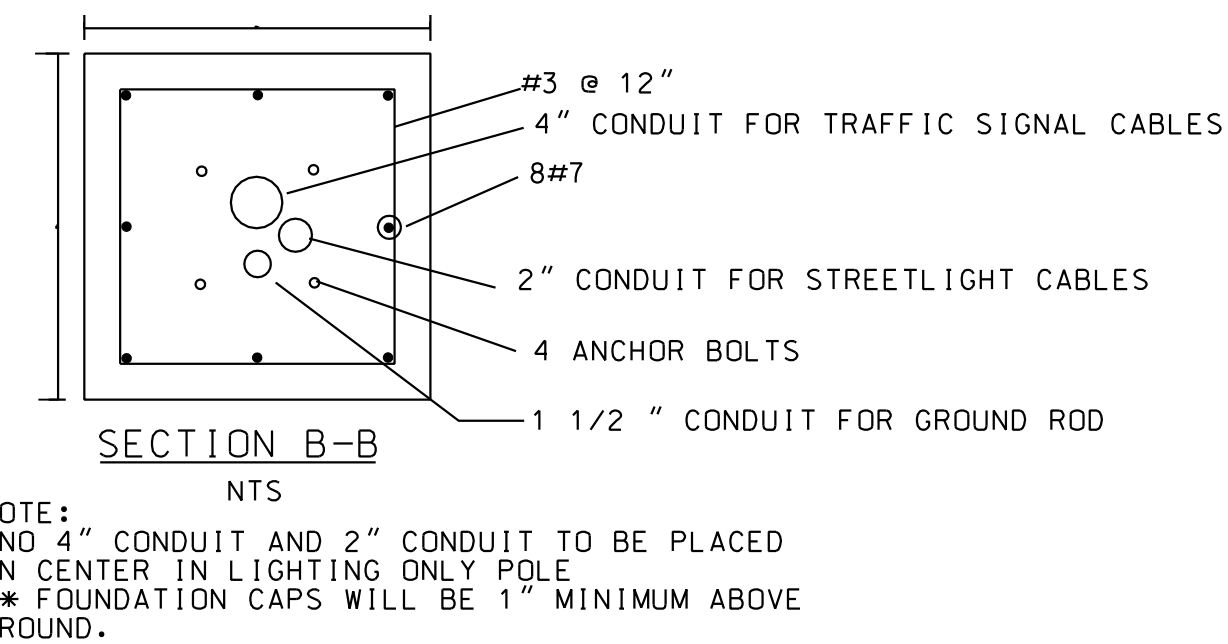
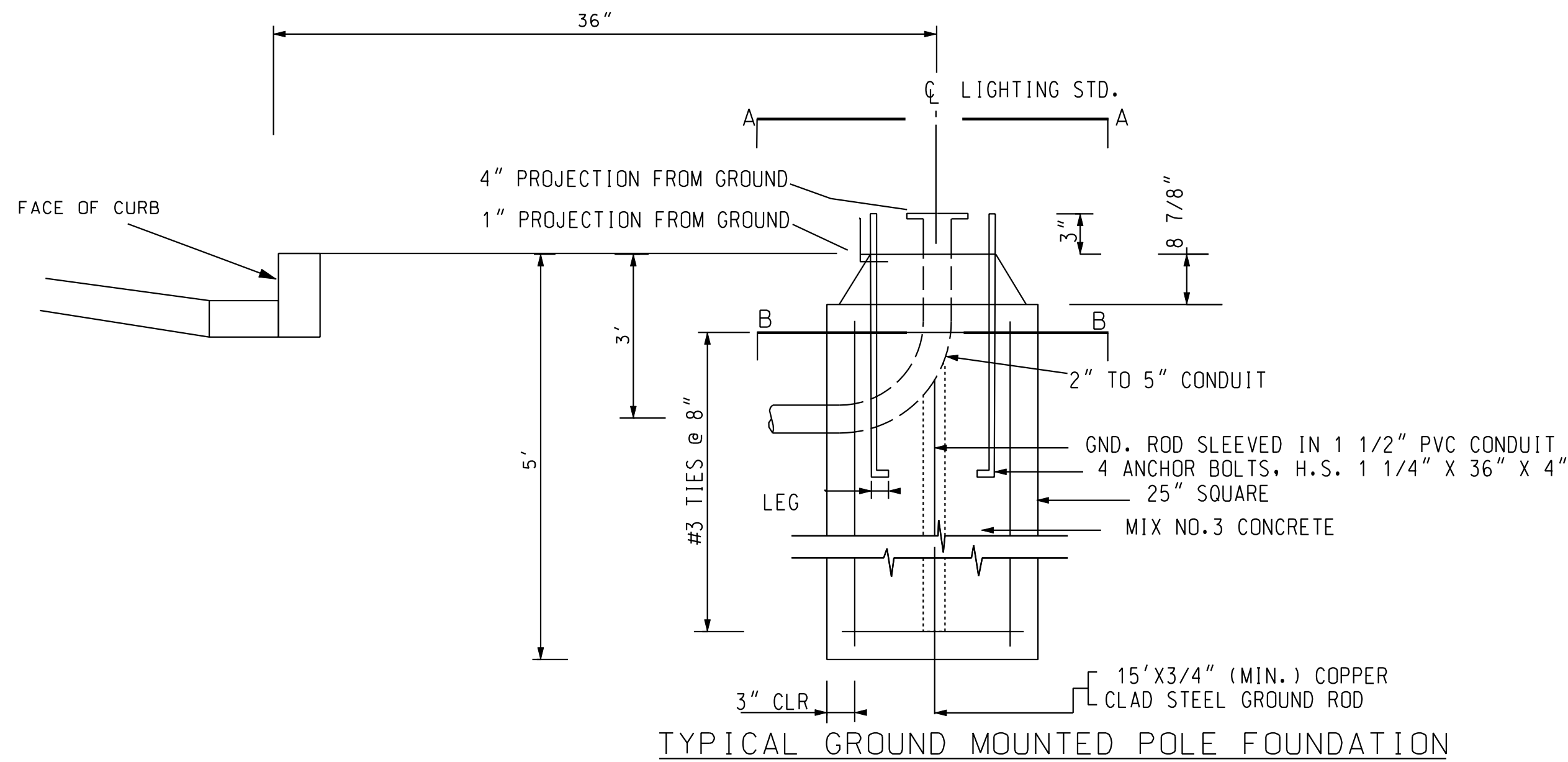
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
LIGHTING PLAN DETAILS I (PART II)	
PROJECT ENG. KJZ DESIGNED BY DLS CHECKED BY DLS DRAWN BY KJZ PROJECT MGR. KJZ	DIVISION CHIEF
DATE	FILE

Precision Systems, Inc.
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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 Wednesday, April 23, 2008 AT 01:32 PM
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 sPLTDRV.s\$



LT- 10

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
PROJECT ENG. <u>KJZ</u> DESIGNED BY <u>DSL</u> CHECKED BY <u>DSL</u> DRAWN BY <u>KJZ</u> PROJECT MGR. <u>KJZ</u>	DIVISION CHIEF
RECONSTRUCTION OF EASTERN AVENUE BRIDGE OVER KENILWORTH AVENUE, N.E.	
LIGHTING PLAN DETAILS II (PART II)	
DATE _____	FILE _____

Precision Systems, Inc.
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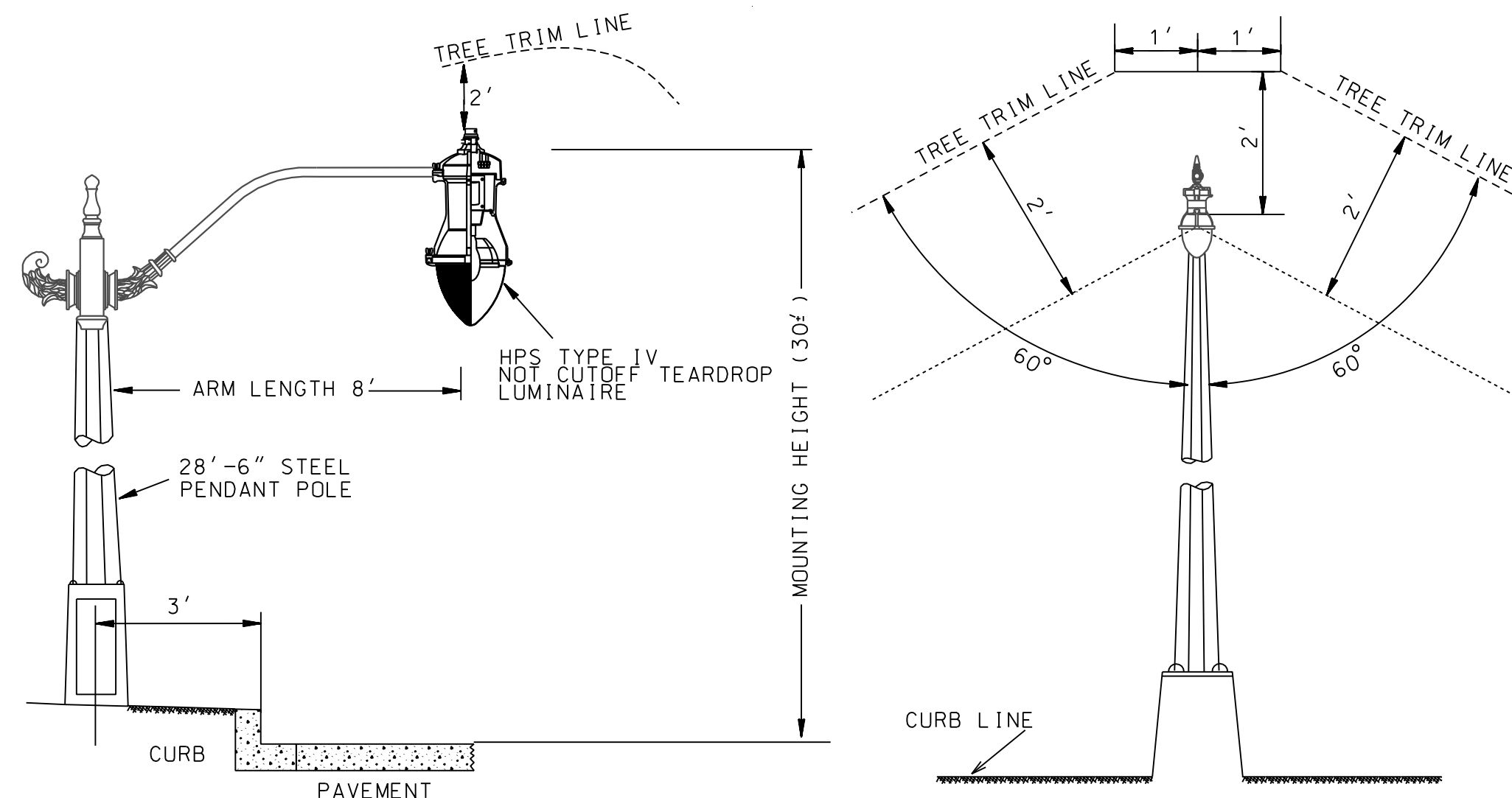
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PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO	DESCRIPTION	NAME	DATE
REVISIONS			

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Wednesday, April 23, 2008 AT 01:32 PM
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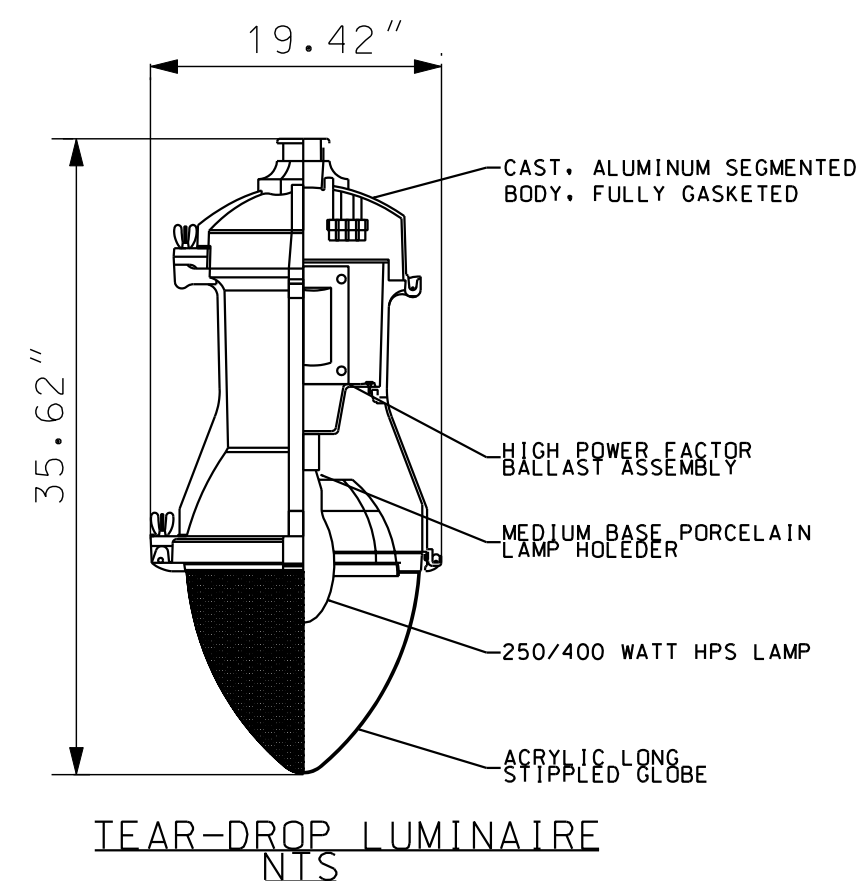
LIGHT STANDARD SCHEDULE				
POLE, ARM AND BASE	LUMINAIRE	LAMPS	GLOBES	REMARKS
30 FT PENDANT POST WITH TRANSFORM BASE	1 250/400 W HPS TEARDROP	1 250/400 W HPS LAMP	STIPPLED ACRYLIC GLOBE	1 PHOTO CELL

MOUNTING HEIGHT FROM POLE BASE CASTING (FT)	LUMINAIRE ARM DATA		POLE TUBE		POLE BASE CASTING				ANCHOR BOLT			TRANSFORMER BASE	FOUNDATION BOLT CIRCLE (IN)			
	SINGLE ARM SPAN (FT)	TWIN ARM SPAN (FT)	BASE DIA (IN)	TOP DIA (IN)	LENGTH (FT)	GAUGE OR THICK (IN)	SQUARE S (IN)	BOLT CIRCLE DIA (IN)	BOLT SQUARE (IN)	HOLE DIA (IN)	LENGTH (IN)	HOLE DIA (IN)	HOOK (IN)	THREAD LENGTH (IN)	STEEL	WITH T-BASE (*)
30	8	8	8.00	4.01	28.50	11	11.50	11.00	7.75	1.25	1.00	3600	4.00	6.00	YES	15.00

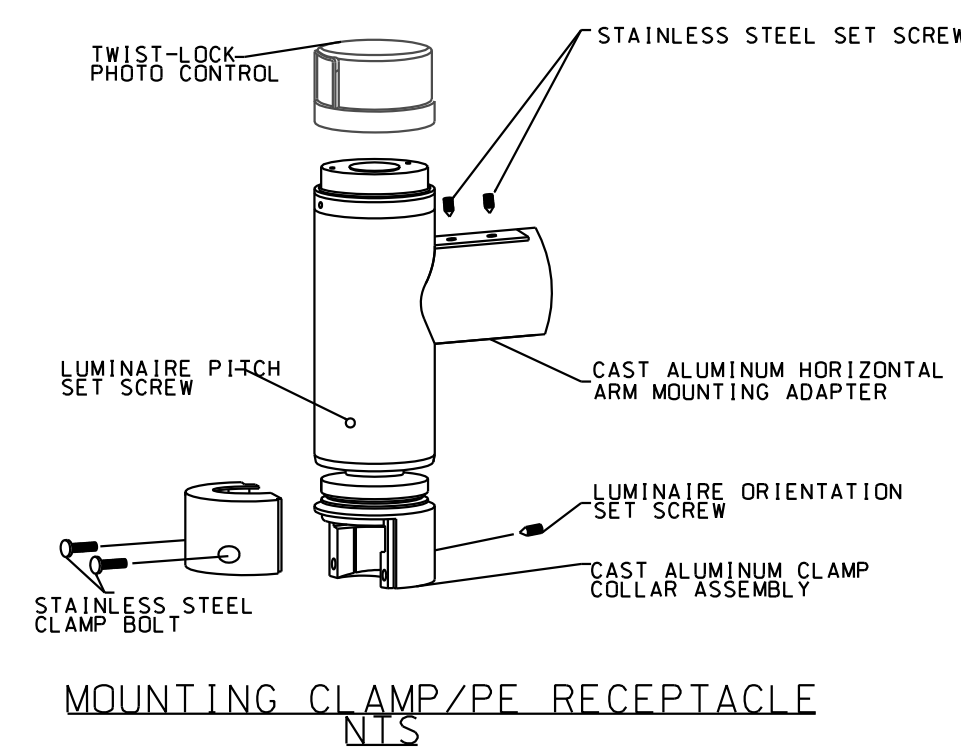


TREE TRIM DETAIL FOR PENDANT POST OR WOOD POLE
NOT TO SCALE

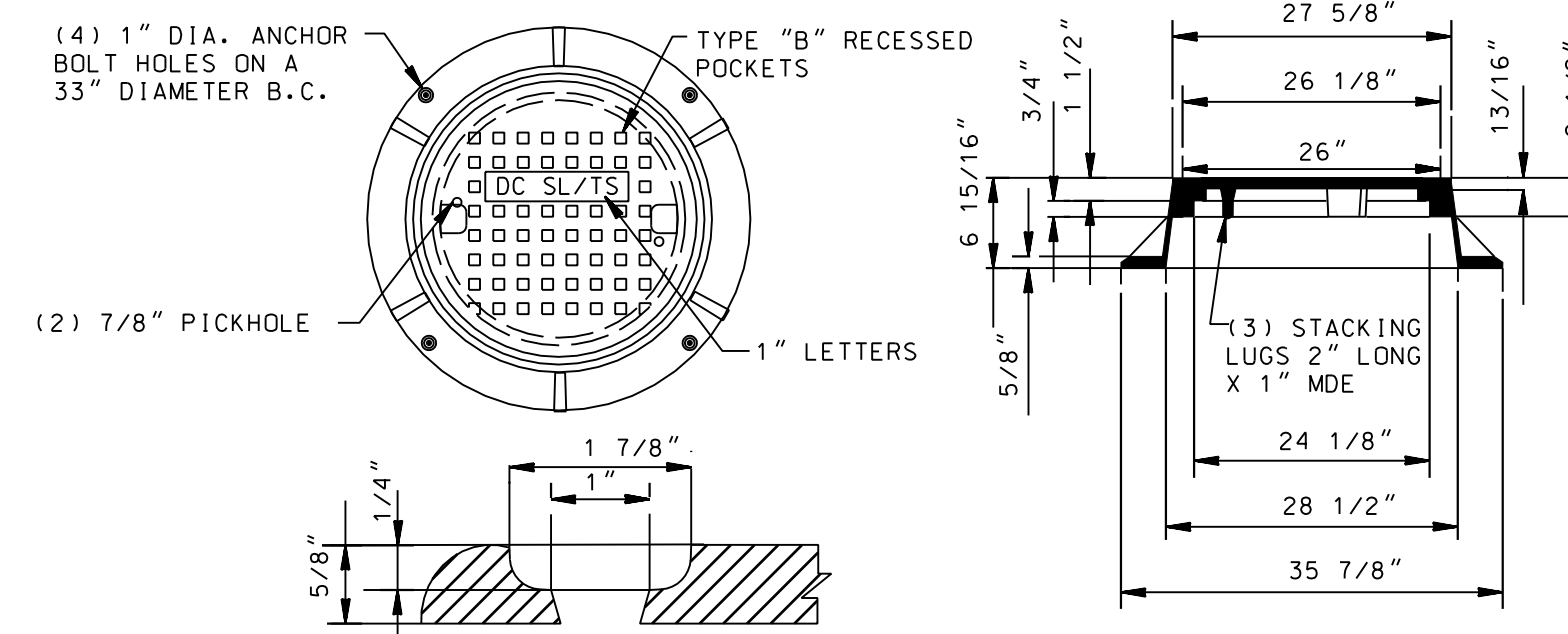
GALVANIZED STEEL LUMINAIRE SUPPORTS FOR CLASS 3 WOOD POLE
NOT TO SCALE



TEAR-DROP LUMINAIRE
NLS



MOUNTING CLAMP/PE RECEPTACLE
NLS



ANCHOR HOLE DETAIL

NOTE:
WHERE MANHOLE IS IN SIDEWALKS, THE COVER SHALL CONFORM WITH SIDEWALK SLOPE. AT ALL OTHER LOCATIONS, IT SHALL BE LEVEL.

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH CASTINGS ARE HEAVY DUTY, MEETING AASHTO - M20 LOADING REQUIREMENTS.

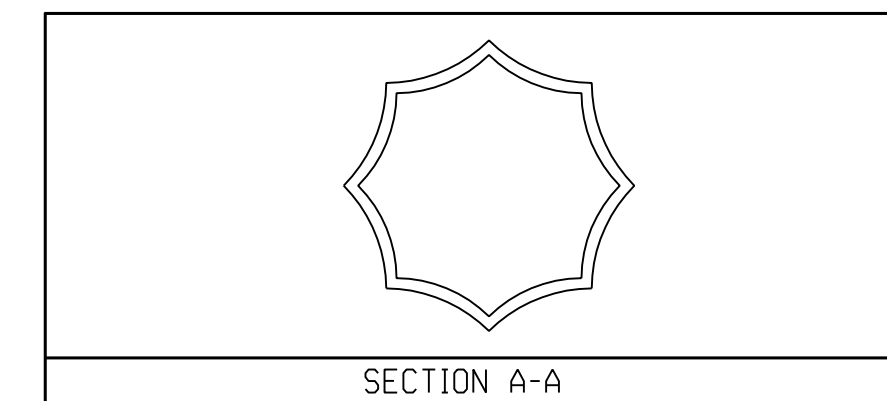
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B, AASHTO, M306

FINISH: NOT PAINTED

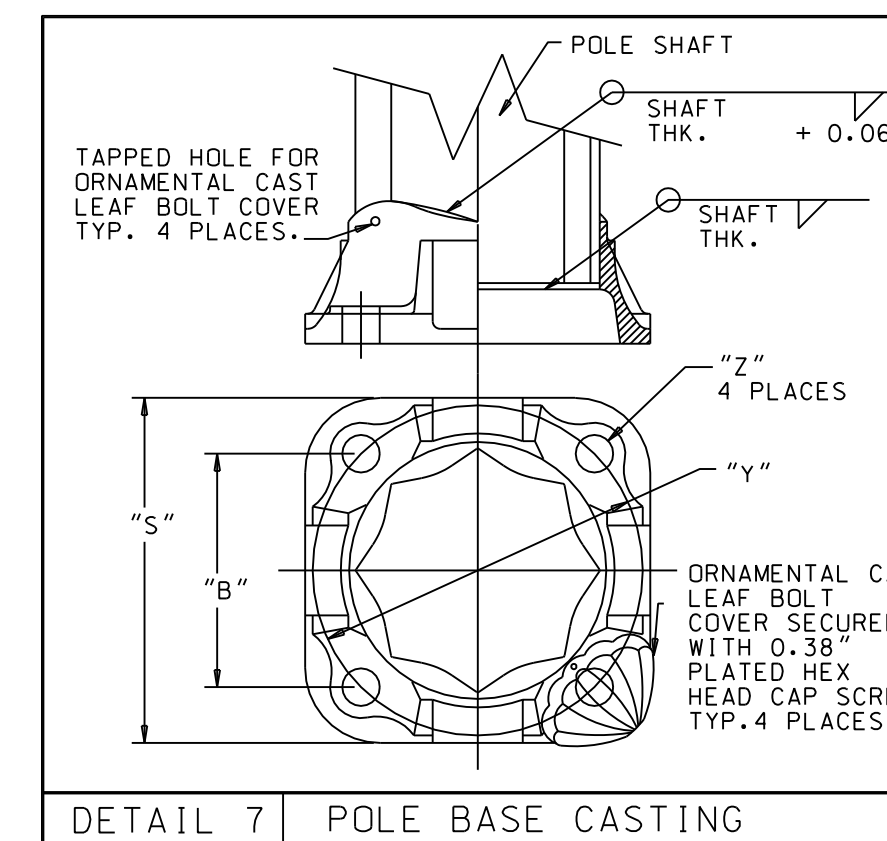
NOT TO SCALE

THE MANUFACTURERS NAME OR LOGO SHALL NOT BE CAST INTO RING OR COVER

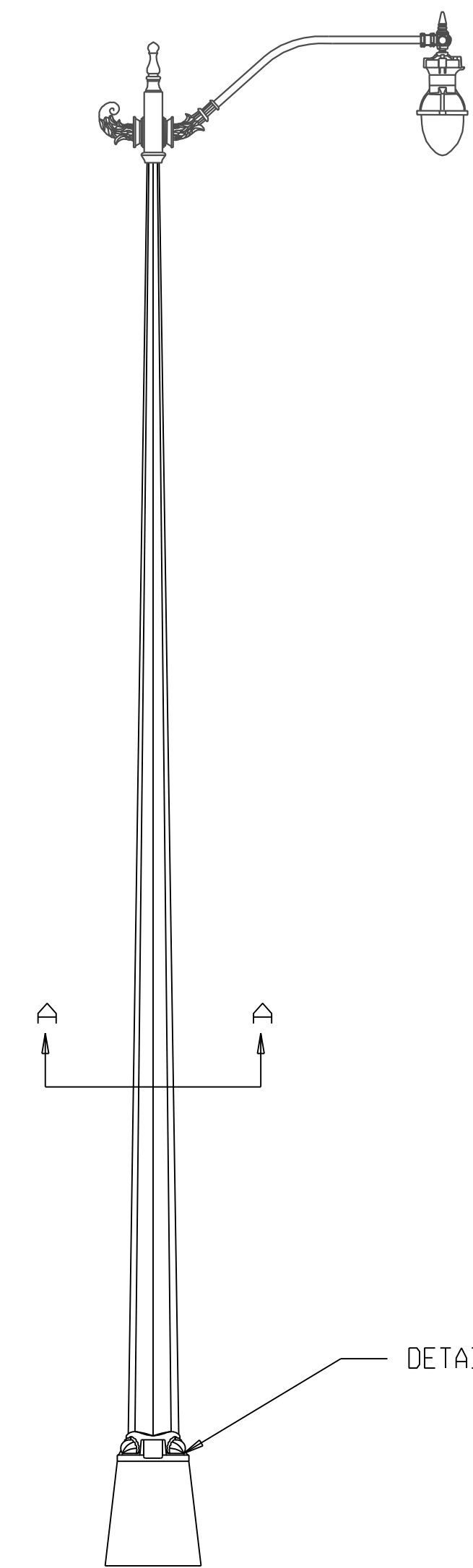
MANHOLE FRAME AND COVER



SECTION A-A



DETAIL 7 POLE BASE CASTING



PENDANT POST DETAILS

DETAIL 7

LT- 11

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

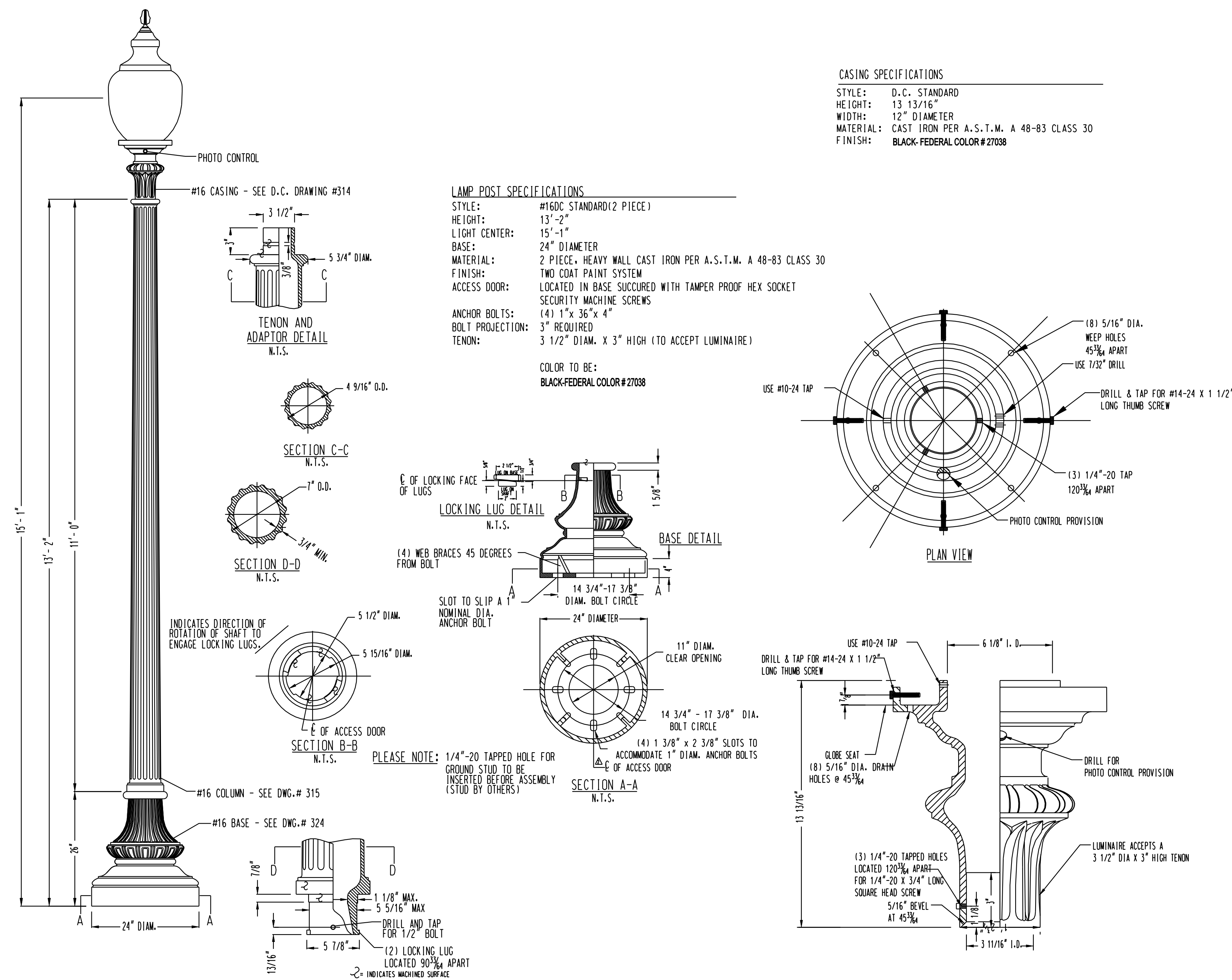
LIGHTING PLAN DETAILS III (PART II)

PROJECT ENG.	KJZ
DESIGNED BY	DLS
CHECKED BY	DSL
DRAWN BY	KJZ
PROJECT MGR.	KJZ
DIVISION CHIEF	
DATE	
FILE	

Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C.

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
www.g-and-o.com

NO	DESCRIPTION	NAME	DATE
REVISIONS			



LT- 12

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
 EASTERN AVENUE BRIDGE
 OVER KENILWORTH AVENUE, N.E.

PROJECT ENG. KZJ
 DESIGNED BY DLS
 CHECKED BY DSL
 DRAWN BY KZJ
 PROJECT MGR. KZJ

DIVISION CHIEF

LIGHTING PLAN DETAILS IV (PART II)

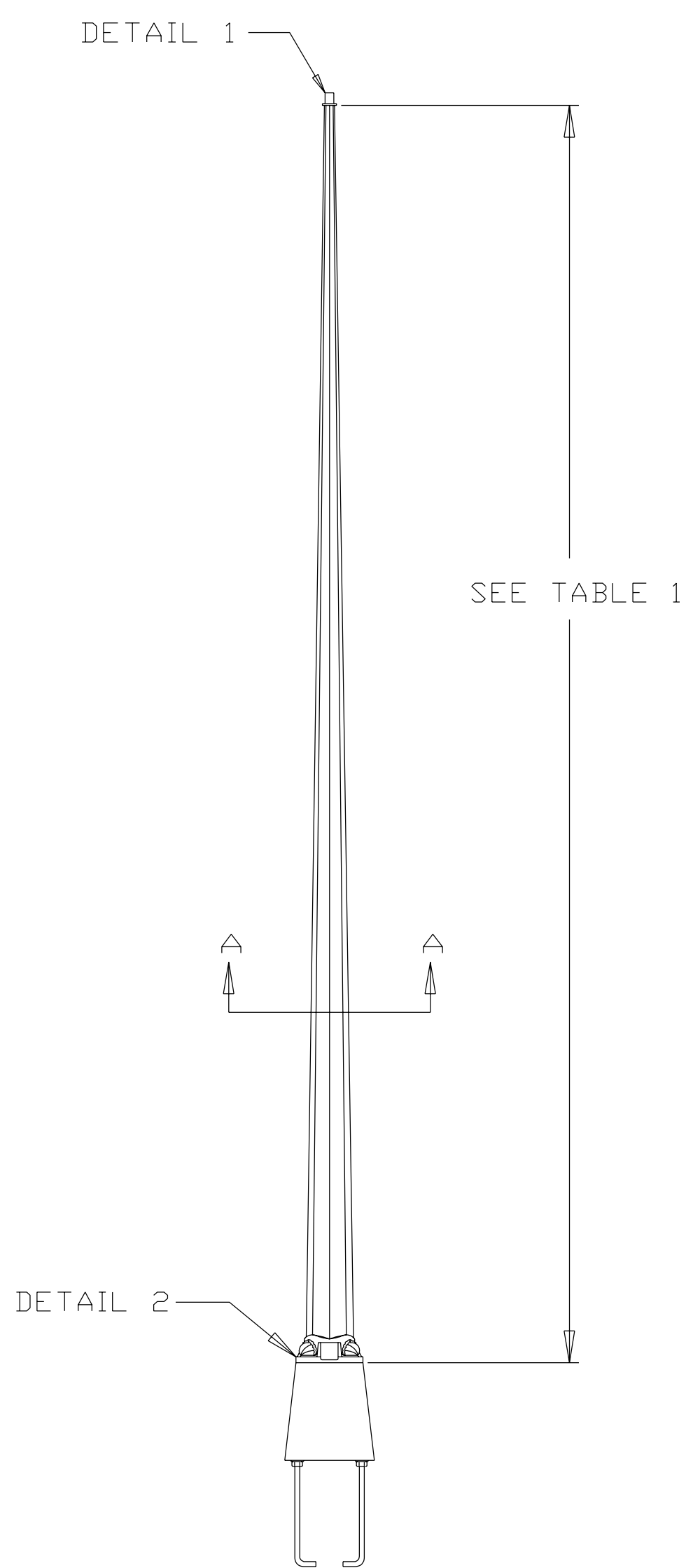
DATE _____
 FILE _____

PSI
Precision Systems, Inc.
 Engineers, Planners and Architects
 WASHINGTON, D.C.

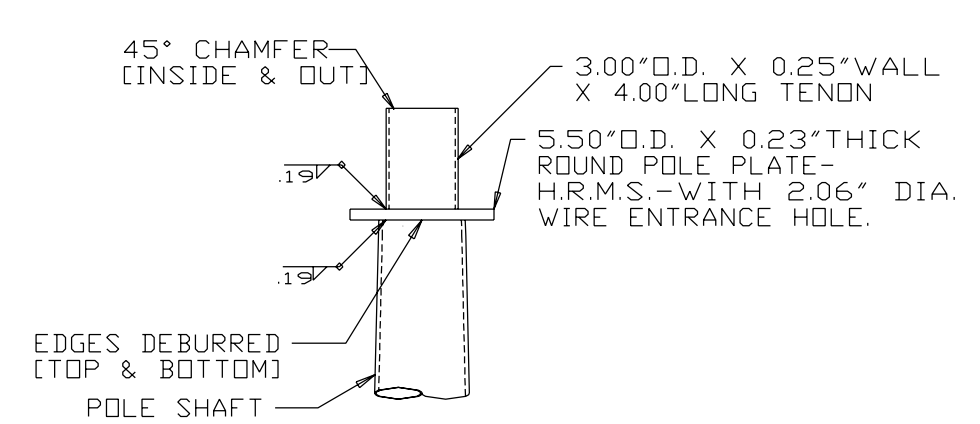
G&O
GREENHORNE & O'MARA
 CONSULTING ENGINEERS
 6110 FROST PLACE, LAUREL, MD 20707
 PHONE: (301) 982-2800 FAX: (240) 542-3193
 www.g-and-o.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

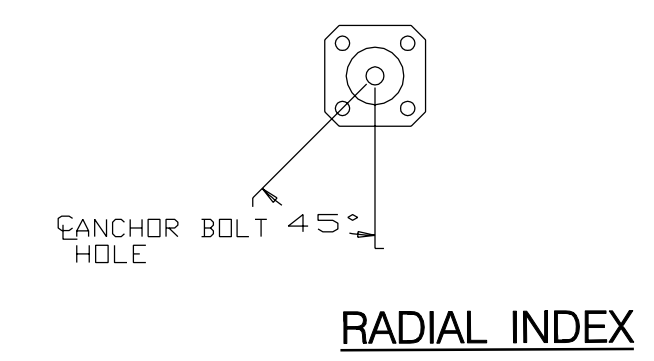
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 \$PENTBL\$\$



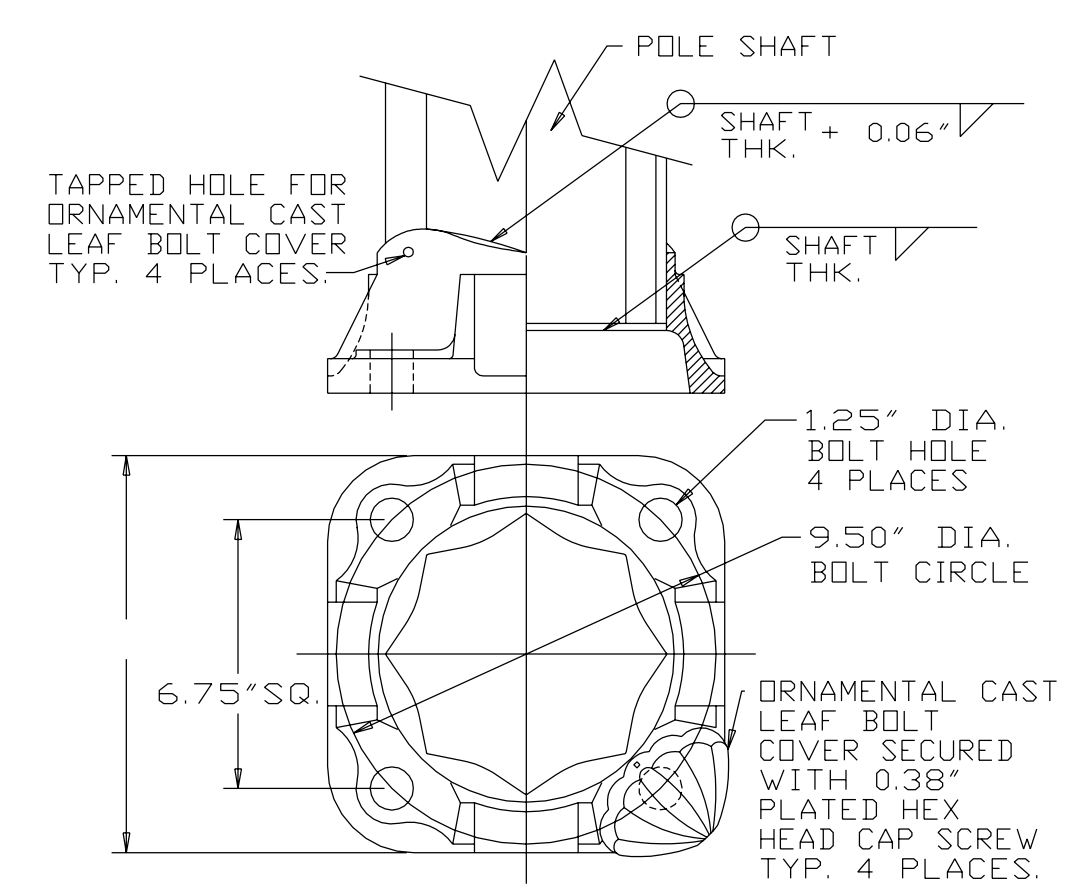
NO. 716 POLE



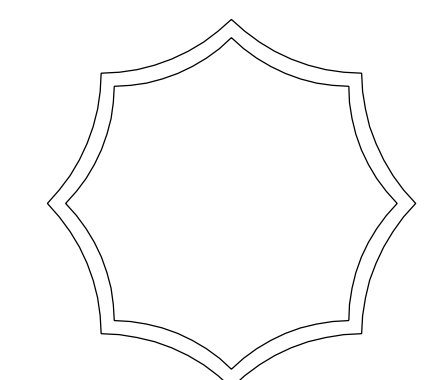
DETAIL 1 POLE TOP



RADIAL INDEX

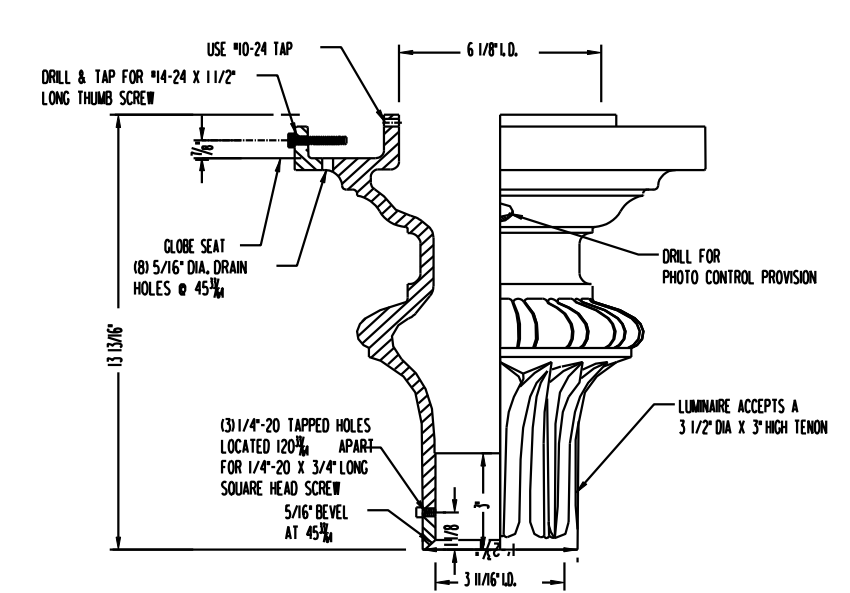


DETAIL 2 POLE BASE CASTING



SECTION A-A

- FINISH NOTES:
- BASE COAT: HOT DIP GALVANIZE TO ASTM: A123
FINISH COAT: TGIC OR URETHANE POLYESTER POWDER
COLOR TO BE:
BLACK # 27038
 - STEEL 20I T-BASE AND COVER PLATE:
GREEN (F283?)
GALVANIZED TO ASTM A123



#16 CASING

ITEM NO.	POLE DATA				ANCHOR BOLT DATA				FOUNDATION BOLT CIRCLE (IN)		TRANSFORMER BASE
	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE	DIA. (IN)	LENGTH (IN)	HOOK (IN)	THREAD LENGTH (IN)	WITH T-BASE	W/O T-BASE	
716	6.50	4.82	12.00	11	1.00	36.00	4.00	6.00	15.00	9.50	YES

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT	A595 GR.55	55
CASTINGS	A27 GR 65-35	
ANCHOR BOLTS	F1554 GR.55	55
T-BASE CONN. BOLTS	A325*	

*LUBRICATE IN THE FIELD IF NECESSARY

LT-13

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF
EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

LIGHTING PLAN DETAILS V (PART II)

PROJECT ENG. KZJ
DESIGNED BY DLS
CHECKED BY DSL
DRAWN BY KZJ
PROJECT MGR. KZJ

DIVISION CHIEF

DATE _____
FILE _____

Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C.

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE, LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (240) 542-3193
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NO.	DESCRIPTION	NAME	DATE
1	CHANGE LT-13, 15 POLE FROM PEND POST TO NO 716	DLS	060510

P:\301008\A\After Design\91_T-0001_30140-0604\0.dgn
 Friday, June 04, 2010 AT 01:35 PM
 \$PENTBL\$\$
 \$PLIDRV\$\$

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	221	242

GENERAL NOTES:

- ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIAL SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

REMOVAL NOTES:

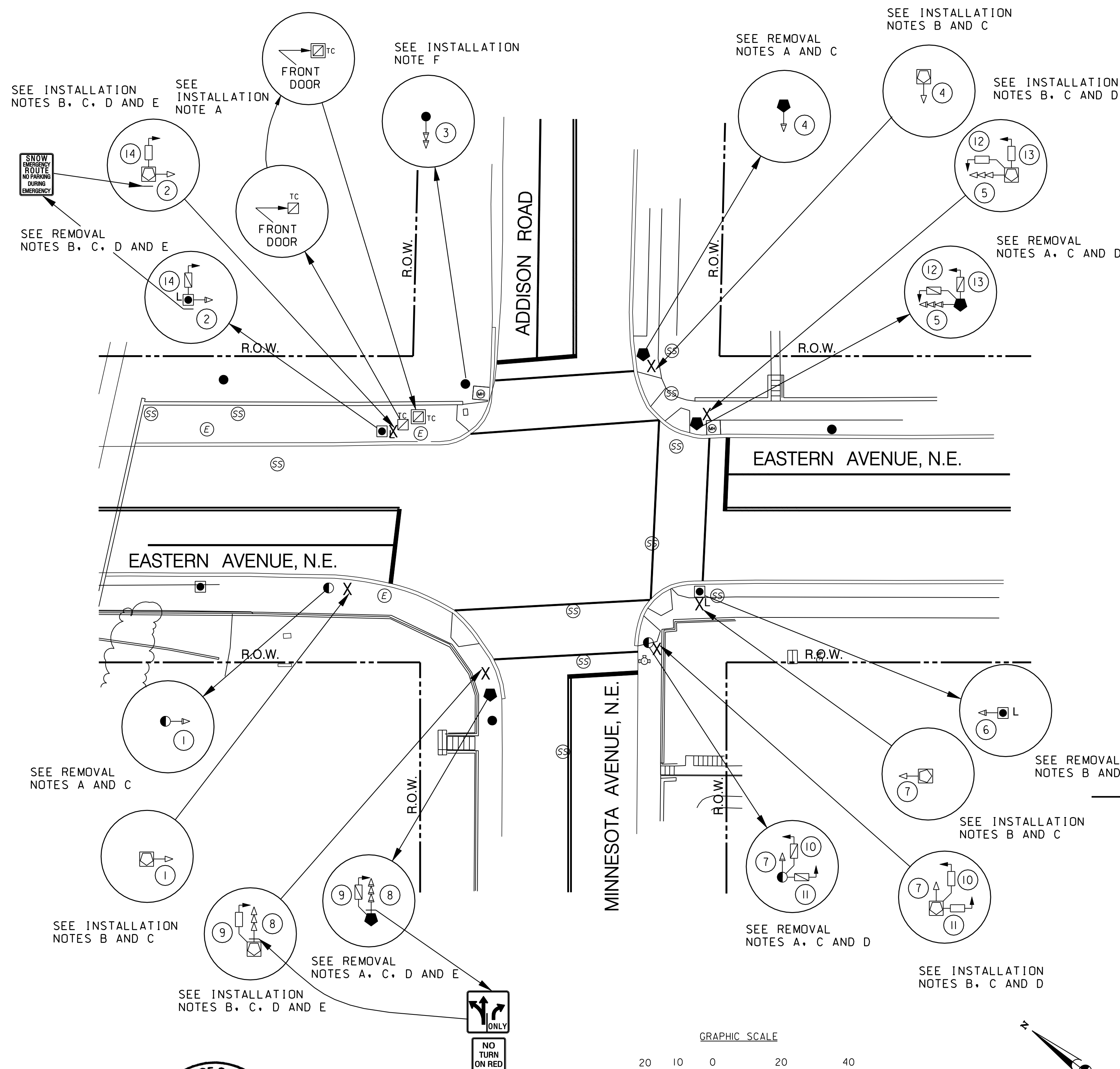
- REMOVE EXISTING TRAFFIC SIGNAL POLE (ANY TYPE).
- REMOVE EXISTING PENDANT POST STREETLIGHT POLE.
- REMOVE EXISTING TRAFFIC SIGNAL HEAD(S).
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD(S).
- REMOVE EXISTING TRAFFIC SIGN(S).

INSTALLATION NOTES:

- RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET ONTO A TEMPORARY, PORTABLE, CONCRETE BASE.
- INSTALL 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE ONTO A TEMPORARY, PORTABLE, CONCRETE BASE.
- INSTALL LED TRAFFIC SIGNAL HEAD(S).
- INSTALL LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD(S).
- INSTALL TRAFFIC SIGN(S).
- NO CHANGE AT THIS LOCATION.

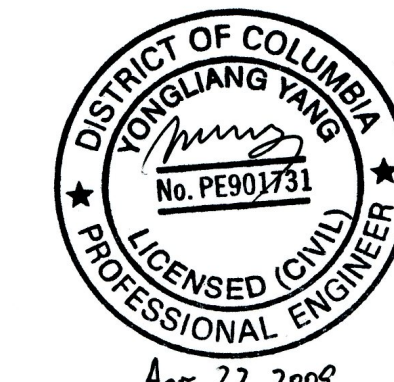
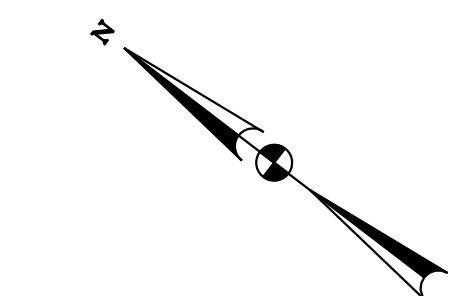
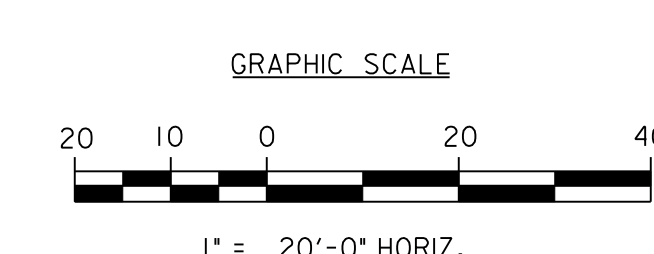
CABLE NOTES:

- DDOT PERSONNEL WILL MAKE ALL ELECTRICAL CONNECTIONS INSIDE THE CONTROLLER CABINET. THE CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS IN TRAFFIC AND PEDESTRIAN SIGNAL HEADS.
- TEMPORARY SIGNAL CABLES EXTENDING OVER THE GROUND SURFACE SHALL BE PROTECTED BY FLEXIBLE PLASTIC CONDUIT.
- THE CONTRACTOR SHALL PROVIDE 50 FEET OF SLACK CABLE COILED NEATLY AT EACH TEMPORARY, PORTABLE, CONCRETE BASE.



LEGEND:

- EXISTING TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH MODEL 336SS CABINET
- EXISTING TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH MODEL 336SS CABINET ON A TEMPORARY, PORTABLE, CONCRETE BASE
- PROPOSED LOCATION OF A TEMPORARY, PORTABLE, CONCRETE BASE
- EXISTING WOOD UTILITY POLE
- EXISTING WOOD SIGNAL POLE
- EXISTING 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE MOUNTED ON A TEMPORARY, PORTABLE, CONCRETE BASE
- EXISTING 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- EXISTING 4 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- PROPOSED 4 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- EXISTING 5 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- PROPOSED 5 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- EXISTING 2 SECTION PEDESTRIAN SIGNAL HEAD
- PROPOSED 2 SECTION LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD
- EXISTING CATCH BASIN
- EXISTING WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING TRAFFIC SIGN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING PECO ELECTRICAL MANHOLE
- EXISTING MANHOLE (UNIDENTIFIED)
- RIGHT OF WAY LINE



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APPROVED BY _____ DATE _____

SG-01

SEQUENCE OF OPERATIONS DRAWING NO. TS-569-D		STAGE 1
DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION		DESIGNED BY KXZ
		DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	12 /08
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 20'
DEPUTY PROGRAM MANAGER	DATE	SHEET 1 OF 1
PROGRAM MANAGER	DATE	DRAWING NO. S-653-C

P:\30140\signal\Working-Temp\2-Eastern Ave and Minnesota Ave, N.E.\DSC-P001-30140-2.dgn
Wednesday, April 22, 2009 AT 12:33 PM

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

REG.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	222	242

GENERAL NOTES:

- ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED CONDUITS, MANHOLES, POLE FOUNDATIONS, AND CABINET FOUNDATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS, TRAFFIC SIGNAL POLES, TRANSFORMER BASES, TRAFFIC SIGNAL CONTROLLER, CABINET, AND ALL MOUNTING HARDWARE.
- THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO DDOT TRAFFIC SIGNAL SHOP. CONTACT MR. ALLEN HUNTLEY 72 HOURS IN ADVANCE AT (202) 576-5261 TO ARRANGE SERVICE.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING TRAFFIC SIGNAL POLES AND HARDWARE.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING TEMPORARY, PORTABLE, CONCRETE BASES.
- NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES.

INSTALLATION NOTES:

- INSTALL TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION.
- INSTALL TRAFFIC SIGNAL CONTROLLER CABINET.
- INSTALL TRAFFIC SIGNAL CONTROLLER.
- INSTALL 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE.
- INSTALL 28-FOOT PENDANT POST STREETLIGHT POLE WITH A TRANSFORMER BASE AND LUMINAIRE.
- INSTALL 8-FOOT MAST ARM WITH CAP AND CLAMP.
- INSTALL LED TRAFFIC SIGNAL HEAD(S).
- INSTALL LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD(S).
- INSTALL TRAFFIC SIGN(S).

REMOVAL NOTE:

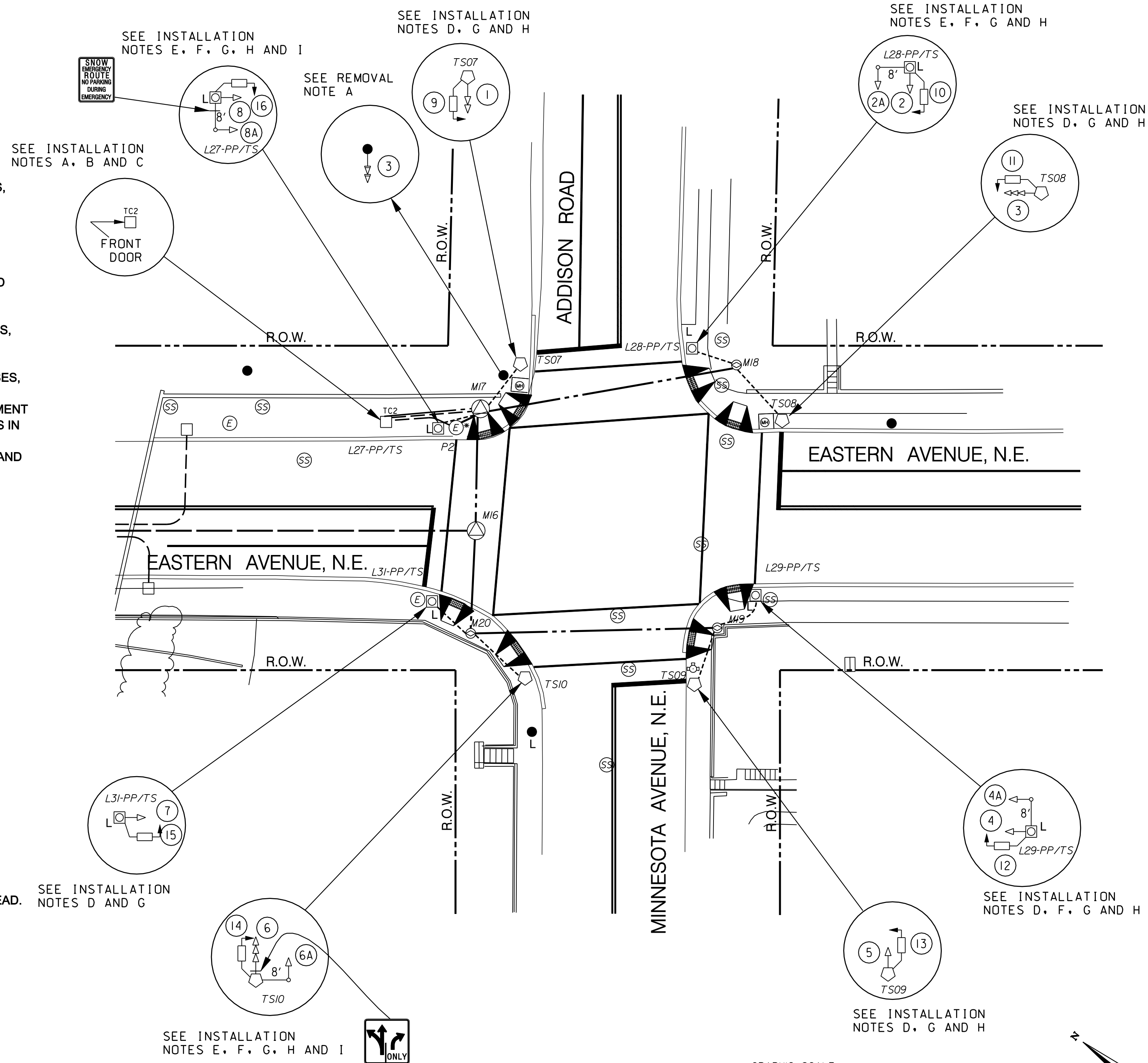
- REMOVE EXISTING TRAFFIC SIGNAL HEAD.

MAST ARM NOTES:

- A BACK PLATE SHALL BE AFFIXED TO EACH MAST ARM MOUNTED SIGNAL HEAD.
- THE BOTTOM OF MAST ARM MOUNTED SIGNAL HEADS SHALL BE 16 FEET ABOVE THE ROADWAY SURFACE.
- AN ASTRO-BRAC OR APPROVED EQUIVALENT SHALL BE USED TO MOUNT SIGNAL HEADS (2A, 4A, 6A AND 8A) TO MAST ARMS.

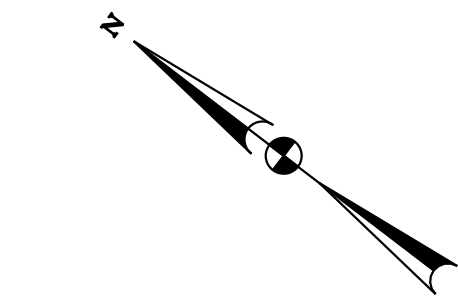
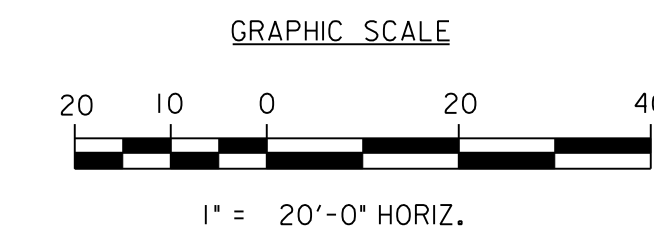
CABLE NOTES:

- DDOT PERSONNEL WILL MAKE ALL ELECTRICAL CONNECTIONS INSIDE THE CONTROLLER CABINET. THE CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS IN TRAFFIC AND PEDESTRIAN SIGNAL HEADS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW, UNSPLICED 7C 14AWG STRANDED CABLE TO ALL SIGNAL HEADS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW 12 PAIR 19AWG COMMUNICATION CABLES.



LEGEND:

- TC □ PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- EXISTING PEPSCO WOOD POLE
- L □ PROPOSED 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED 4 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- PROPOSED 5 SECTION TRAFFIC SIGNAL HEAD CONVENTIONAL
- PROPOSED 2-SECTION LED COUNT-DOWN PEDESTRIAN SIGNAL HEAD
- PROPOSED 8-FOOT MAST ARM WITH CAP AND CLAMP
- ▲ PROPOSED WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING TRAFFIC SIGN
- EXISTING CATCH BASIN
- EXISTING GAS VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING WATER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING PEPSCO ELECTRICAL MANHOLE
- PROPOSED LOCATION FOR PEPSCO POWER CONNECTION
- PROPOSED DDOT MANHOLE (4'X4'X4')
- PROPOSED DDOT MANHOLE (3'X3'X3')
- PROPOSED DDOT 1-2" & 1-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 4-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 1-2" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 2-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 1-4" ELECTRICAL PVC CONDUIT
- PROPOSED DDOT 6-4" ELECTRICAL PVC CONDUIT
- R.O.W. --- RIGHT OF WAY LINE



P:\30404\signal\Working-Temp\2-Eastern Ave and Minnesota Ave, N.E.\DSC-P101-30140-2.dgn Wednesday, April 23, 2008 AT 12:34 PM

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APPROVED BY _____ DATE _____

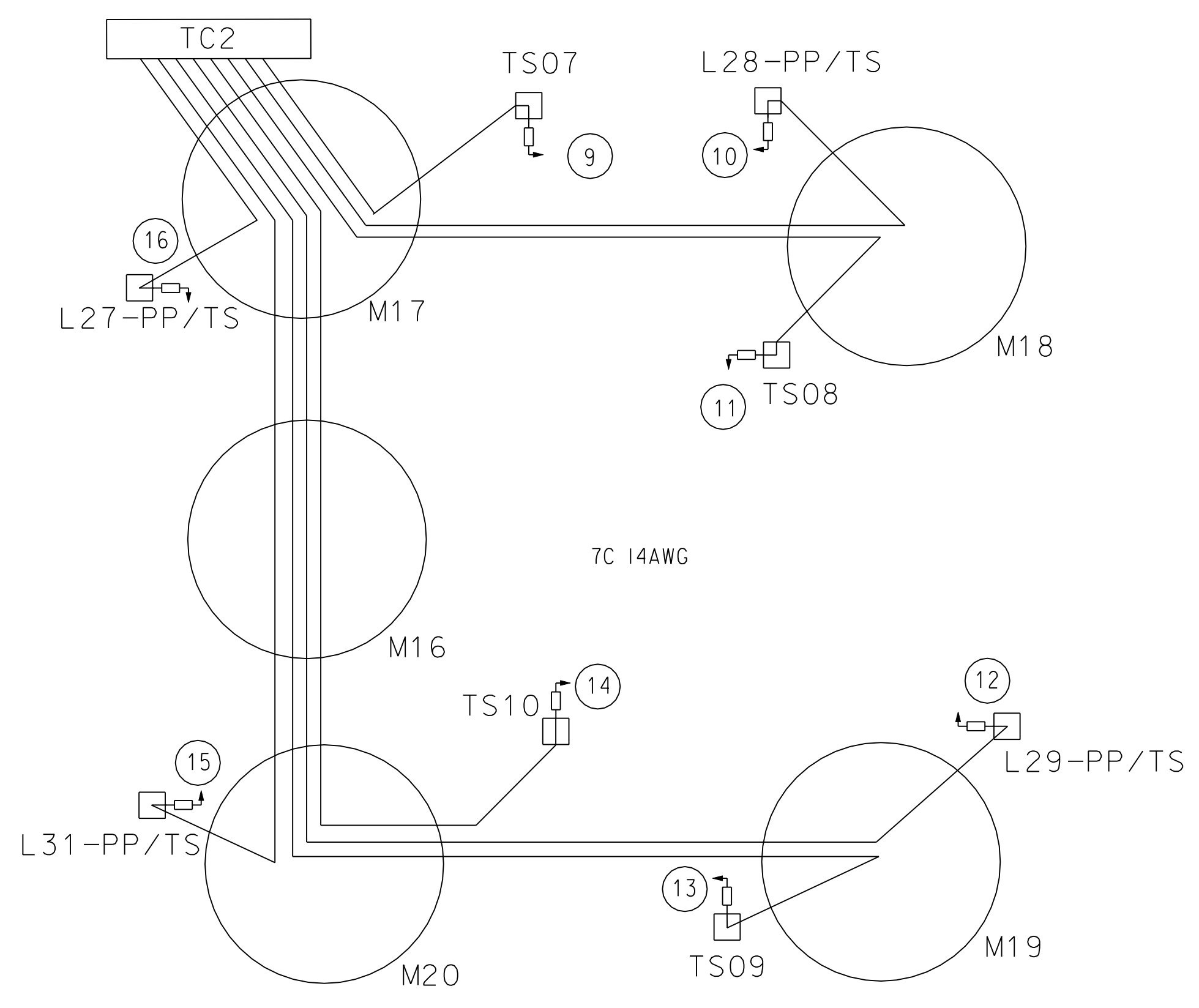
SG-02

SEQUENCE OF OPERATIONS DRAWING NO. TS-569-E

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. TRAFFIC SIGNAL MODIFICATION		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	12 /08
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 20'
DEPUTY PROGRAM MANAGER	DATE	SHEET 1 OF 8
PROGRAM MANAGER	DATE	DRAWING NO. S-653-D

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

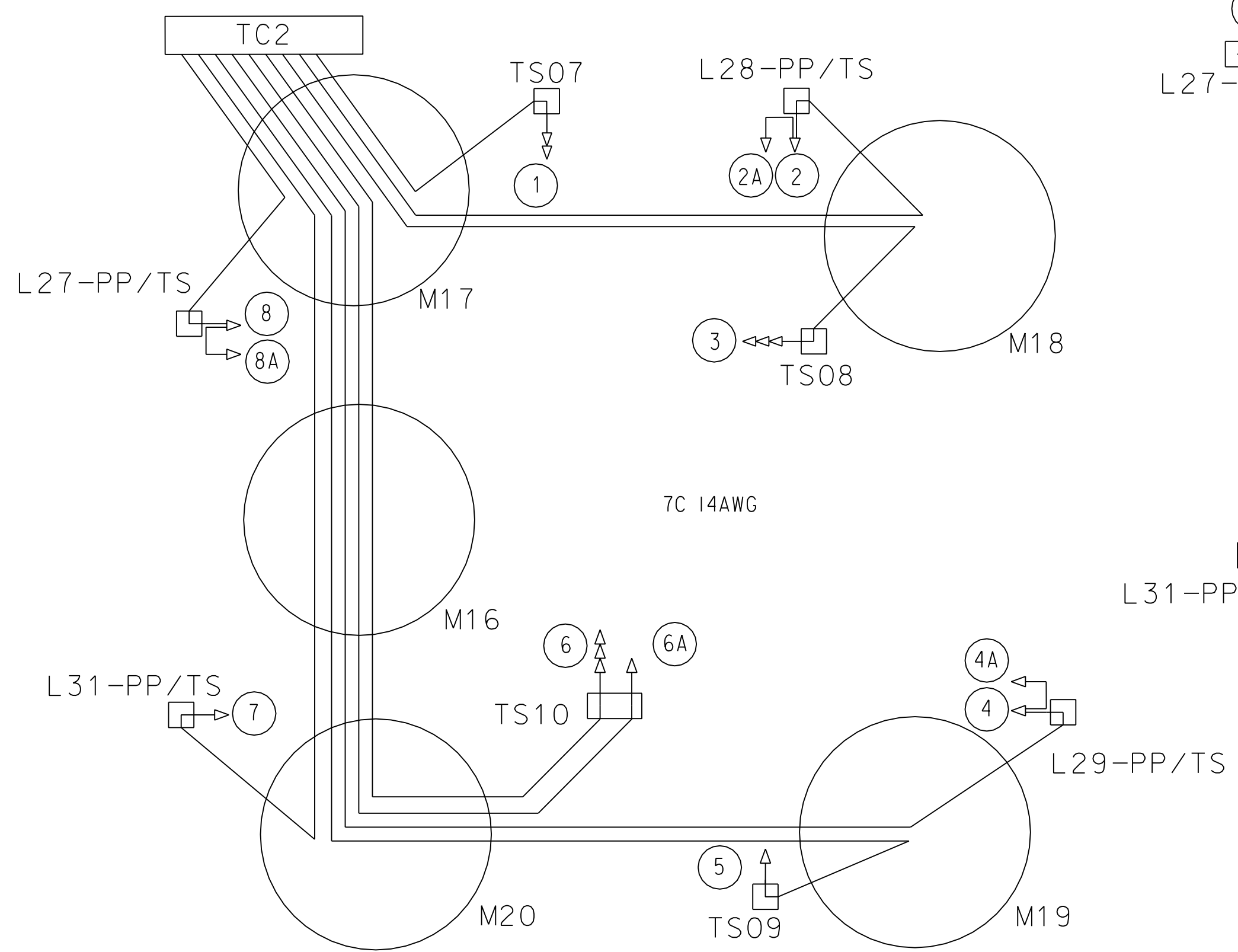
PROPOSED PEDESTRIAN SIGNAL HEAD CABLE SCHEMATIC



PROPOSED PEDESTRIAN SIGNAL HEAD CABLE ROUTING

- TC2 - M17 - TS7 - 9
- TC2 - M17 - M18 - L28-PP/TS -10
- TC2 - M17 - M18 - TS08 -11
- TC2 - M17 - M16 - M20 - M19 - L29-PP/TS -12
- TC2 - M17 - M16 - M20 - M19 - TS09 -13
- TC2 - M17 - M16 - M20 - TS10 -14
- TC2 - M17 - M16 - M20 - L31-PP/TS - 15
- TC2 - M17 - L27-PP/TS - 16

PROPOSED TRAFFIC SIGNAL HEAD CABLE SCHEMATIC



PROPOSED TRAFFIC SIGNAL HEAD CABLE ROUTING

- TC2 - M17 - TS07 - 1
- TC2 - M17 - M18 - TS28-PP/TS - 2
- 2 - 2A
- TC2 - M17 - M18 - TS08 - 3
- TC2 - M17 - M16 - M20 - M19 - L29-PP/TS - 4
- 4 - 4A
- TC2 - M17 - M16 - M20 - M19 - TS09 - 5
- TC2 - M17 - M16 - M20 - TS10 - 6
- TC2 - M17 - M16 - M20 - TS10 - 6A
- TC2 - M17 - M16 - M20 - L31-PP/TS - 7
- TC2 - M17 - L27-PP/TS - 8
- 8 - 8A

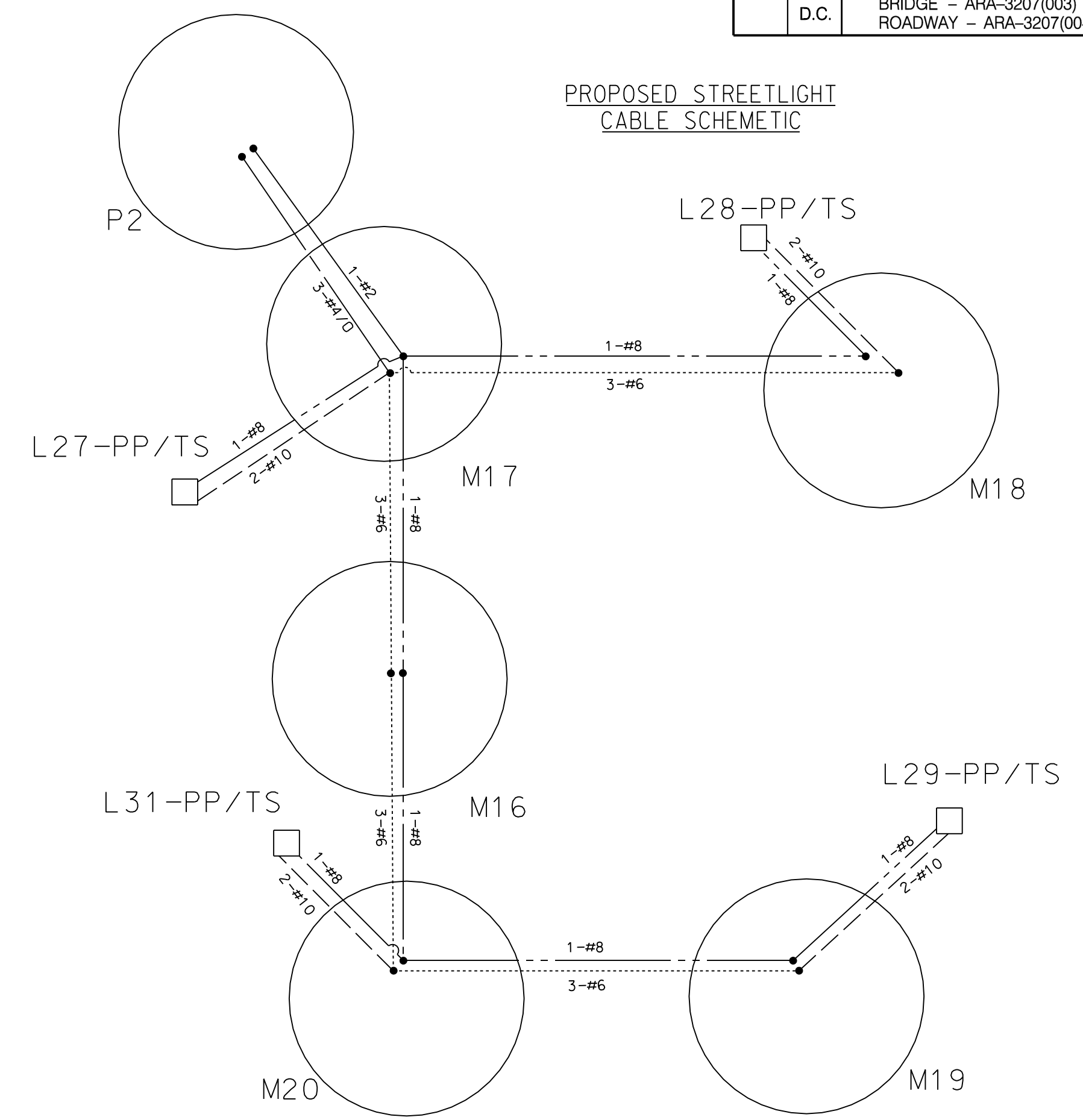
STATION	STATUS	DESCRIPTION
TC2	PROPOSED	TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
M16	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
M17	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (4'x4'x4')
M18	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (3'x3'x3')
M19	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (3'x3'x3')
M20	PROPOSED	DDOT TRAFFIC SIGNAL MANHOLE (3'x3'x3')
TS07	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS08	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS09	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
TS10	PROPOSED	20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
L27-PP/TS	PROPOSED	28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
L28-PP/TS	PROPOSED	28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
L29-PP/TS	PROPOSED	28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
L31-PP/TS	PROPOSED	28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE

CONDUIT SUMMARY				
LOCATION TO LOCATION	STATUS	SIZE (DIA.) (IN)	NUMBER OF CONDUITS	QUANTITY (FT)
TC2 - M17	PROPOSED	2.4	1,2	26
P2 - TC2	PROPOSED	2	1	43
M17 - M16	PROPOSED	4	4	34
M17 - M18	PROPOSED	4	4	72
M16 - M20	PROPOSED	4	4	29
M20 - M19	PROPOSED	4	4	68
M17 - TS07	PROPOSED	2.4	1,1	18
M17 - L27-PP/TS	PROPOSED	2.4	1,1	19
M18 - TS08	PROPOSED	2.4	1,1	14
M18 - L28-PP/TS	PROPOSED	2.4	1,1	13
M19 - TS09	PROPOSED	2.4	1,1	6
M19 - L29-PP/TS	PROPOSED	2.4	1,1	12
M20 - TS10	PROPOSED	2.4	1,1	17
M20 - L31-PP/TS	PROPOSED	2.4	1,1	29

STREETLIGHT CABLE SUMMARY							
SCHEDULE			QUANTITY				
FROM STA.	TO STA.	DISTANCE	#4/0	#6	#10	#2	#8
P2	M17	5	45			15	
M17	M18	72		246		82	
M17	M16	34		132		44	
M16	M20	29		117		39	
M20	M19	68		234		78	
M17	L27-PP/TS	19			48		24
M18	L28-PP/TS	13			36		18
M19	L29-PP/TS	12			34		17
M20	L31-PP/TS	26			68		34
TOTAL			45	729	186	258	93

STREETLIGHT POLE INFORMATION (INSTALLATION)							
DRAWING	MARYLAND GRID PLAT	GRID NO.	LOCATION	TYPE OF POLE	LIGHT SOURCE	LAMP WATTS	DATE IN SERVICE
L27-PP/TS	818392	420155	NW COR EASTERN AVE. MINNESOTA AVE., N.W.	PEND POST	HPS	250W	
L28-PP/TS	818392	478083	NE COR EASTERN AVE. MINNESOTA AVE., N.W.	PEND POST	HPS	400W	
L29-PP/TS	818392	421042	SE COR EASTERN AVE. MINNESOTA AVE., N.W.	PEND POST	HPS	400W	
L30-WP/TS	818392	3808	SW COR EASTERN AVE. MINNESOTA AVE., N.W.	WOOD POLE	HPS	400W	
L31-PP/TS	818392	381136	SW COR EASTERN AVE. MINNESOTA AVE., N.W.	PEND POST	HPS	250W	

STREETLIGHT POLE INFORMATION (REMOVAL)							
DRAWING	MARYLAND GRID PLAT	GRID NO.	LOCATION	TYPE OF POLE	LIGHT SOURCE	LAMP WATTS	DATE IN SERVICE
R15-PP/TS	818392	420155	NW COR EASTERN AVE. MINNESOTA AVE., N.E.	PEND POST	HPS	400W	



PROPOSED STREETLIGHT CABLE LEGEND

- NO. 8 STRANDED BARE COPPER GROUND WIRE
- NO. 2 STRANDED BARE COPPER GROUND WIRE
- TWO NO. 10 STRANDED CABLES
- THREE NO. 6 STRANDED CABLES
- THREE NO. 4/0 STRANDED CABLES
- SPLICE POINT

PROPOSED STREETLIGHT CABLE ROUTING

- P2 - M17 - L27-PP/TS
- P2 - M17 - M18 - L28-PP/TS
- P2 - M17 - M16 - M20 - L31-PP/TS
- P2 - M17 - M16 - M20 - M19 - L29-PP/TS

SG-03

SEQUENCE OF OPERATIONS DRAWING NO. TS-569-E

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. CABLE ROUTING SCHEMATIC		DESIGNED BY KXZ
SUBMITTED BY PROJECT ENGINEER		DATE 4/27/09
RECOMMENDED GROUP MANAGER		DATE 12 /08
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER		DATE 4/22/09
DEPUTY PROGRAM MANAGER		DATE
PROGRAM MANAGER		DATE
SCALE 1" = 20'		SHEET / OF 2 / 8
DRAWING NO. S-653-D		REVIEWED BY AYY



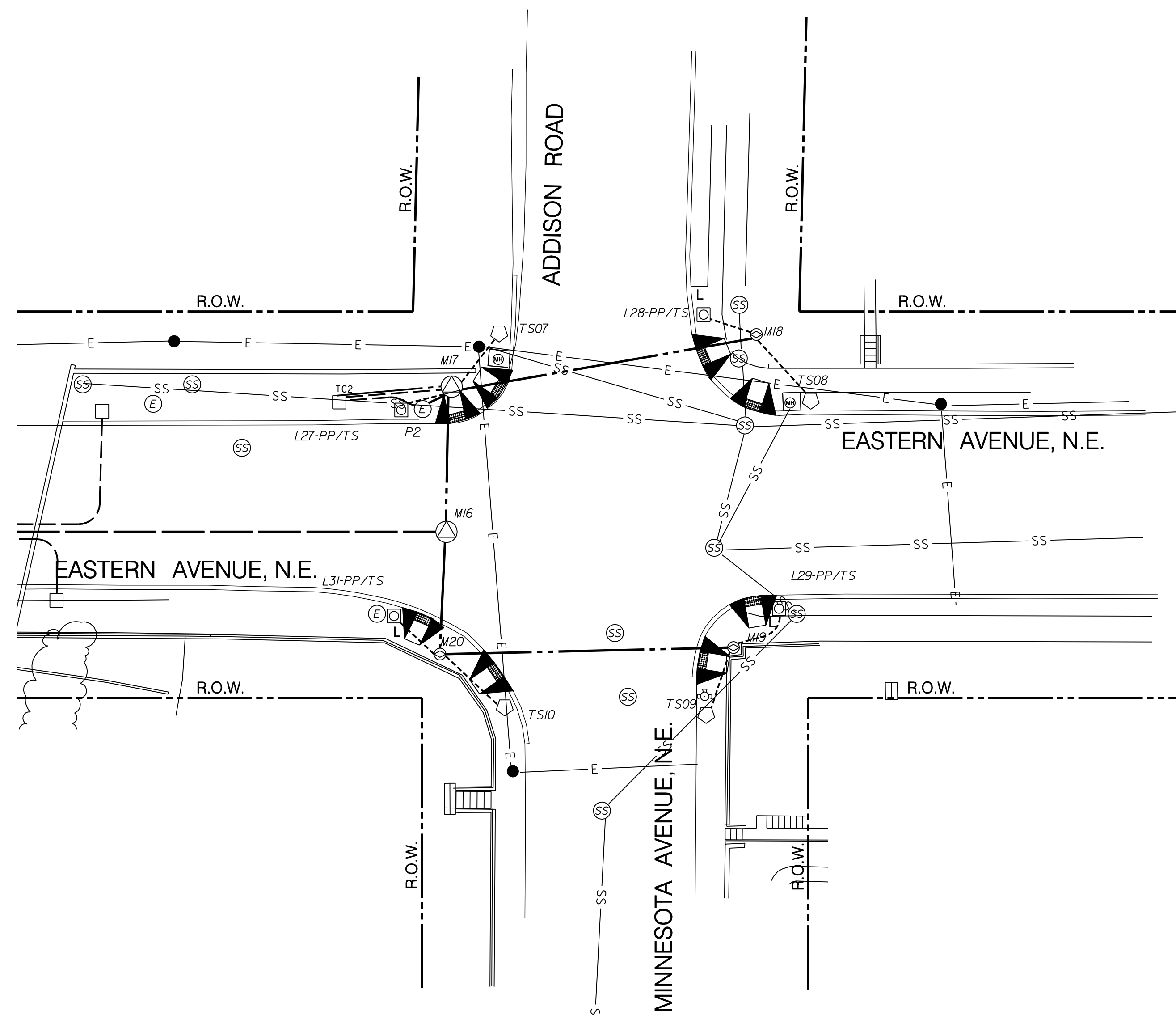
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	224	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

GENERAL NOTES:

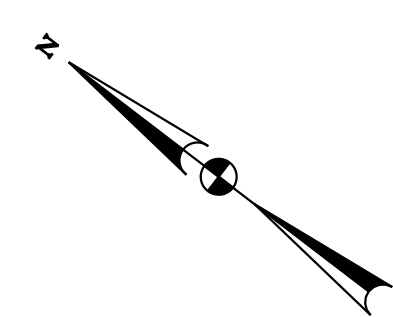
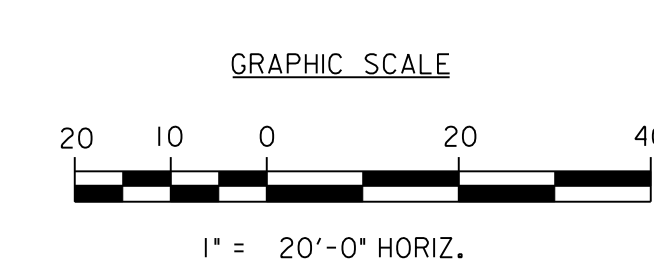
1. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA AND/OR RECORD DRAWINGS. THE LOCATION OF UTILITIES SHOWN IS APPROXIMATE AND THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF A UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW THE GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE OWNER AT CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
2. THE CONTRACTOR SHALL EXCAVATE AND LOCATE VERTICALLY AND HORIZONTALLY ALL UTILITIES IN CLOSE PROXIMITY TO THE PROPOSED TRAFFIC SIGNAL WORK AREA AS NECESSARY FOR CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO EXCAVATING.
4. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 2 FOOT HORIZONTAL CLEARANCE TO ALL UTILITIES DURING CONSTRUCTION.
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED CONDUITS.



LEGEND:

- TC □ PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- EXISTING PEPCO WOOD POLE
- L □ PROPOSED 28-FOOT PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A TRANSFORMER BASE
- PROPOSED 20-FOOT TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- ▲ PROPOSED WHEELCHAIR RAMP
- ⊙ EXISTING TREE
- ⊙ EXISTING TRAFFIC SIGN
- ⊙ EXISTING CATCH BASIN
- ⊙ EXISTING GAS VALVE
- ⊙ EXISTING WATER METER
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING WATER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ EXISTING TELEPHONE MANHOLE
- ⊙ EXISTING PEPCO ELECTRICAL MANHOLE
- * PROPOSED LOCATION FOR PEPCO POWER CONNECTION
- ⊙ PROPOSED DDOT MANHOLE (4'X4')
- ⊙ PROPOSED DDOT MANHOLE (3'X3')
- E — EXISTING ELECTRICAL LINE (FROM SURVEY)
- SS — EXISTING SANITARY SEWER LINE
- G — EXISTING GAS LINE
- - - - - PROPOSED DDOT 1-2" & 1-4" ELECTRICAL PVC CONDUIT
- — — — — PROPOSED DDOT 4-4" ELECTRICAL PVC CONDUIT
- - - - - PROPOSED DDOT 1-2" ELECTRICAL PVC CONDUIT
- - - - - PROPOSED DDOT 2-4" ELECTRICAL PVC CONDUIT
- ⋯⋯⋯ PROPOSED DDOT 1-4" ELECTRICAL PVC CONDUIT
- — — — — PROPOSED DDOT 6-4" ELECTRICAL PVC CONDUIT
- - - - - R.O.W. — RIGHT OF WAY LINE

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APPROVED BY _____ DATE _____

SG-04

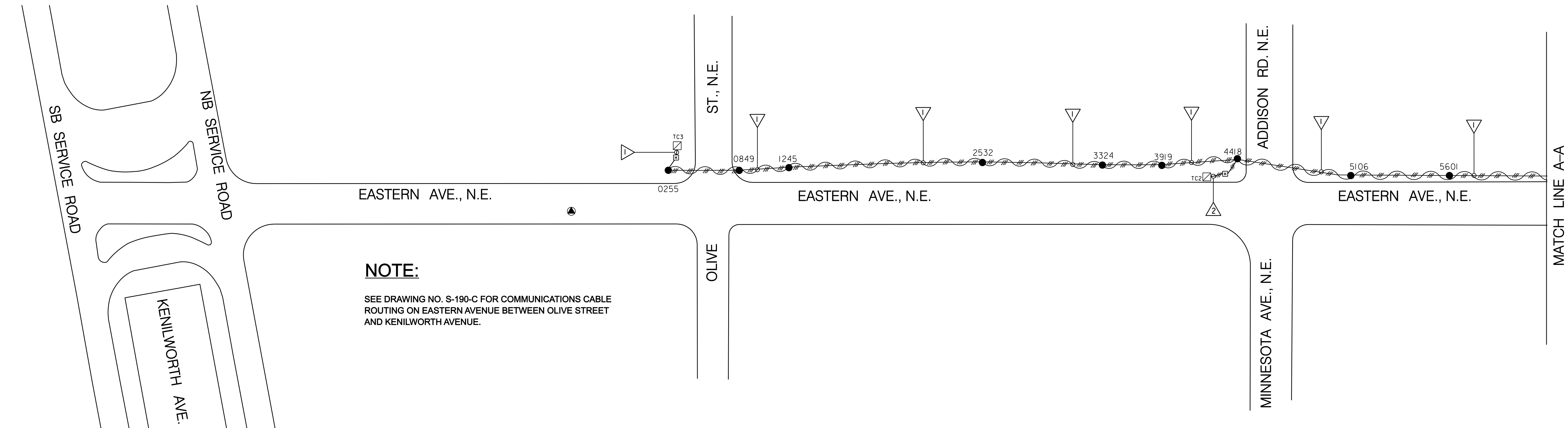
SEQUENCE OF OPERATIONS DRAWING NO. TS-569-E

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. UTILITY PLAN		DESIGNED BY KXZ
DRAWN BY KXZ		REVIEWED BY AYY
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	DATE 12/08
RECOMMENDED GROUP MANAGER	DATE	SCALE 1" = 20'
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SHEET 3 OF 8
DEPUTY PROGRAM MANAGER	DATE	DRAWING NO. S-653-D
PROGRAM MANAGER	DATE	

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	225	242

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

EXISTING COMMUNICATION CABLE PLAN I



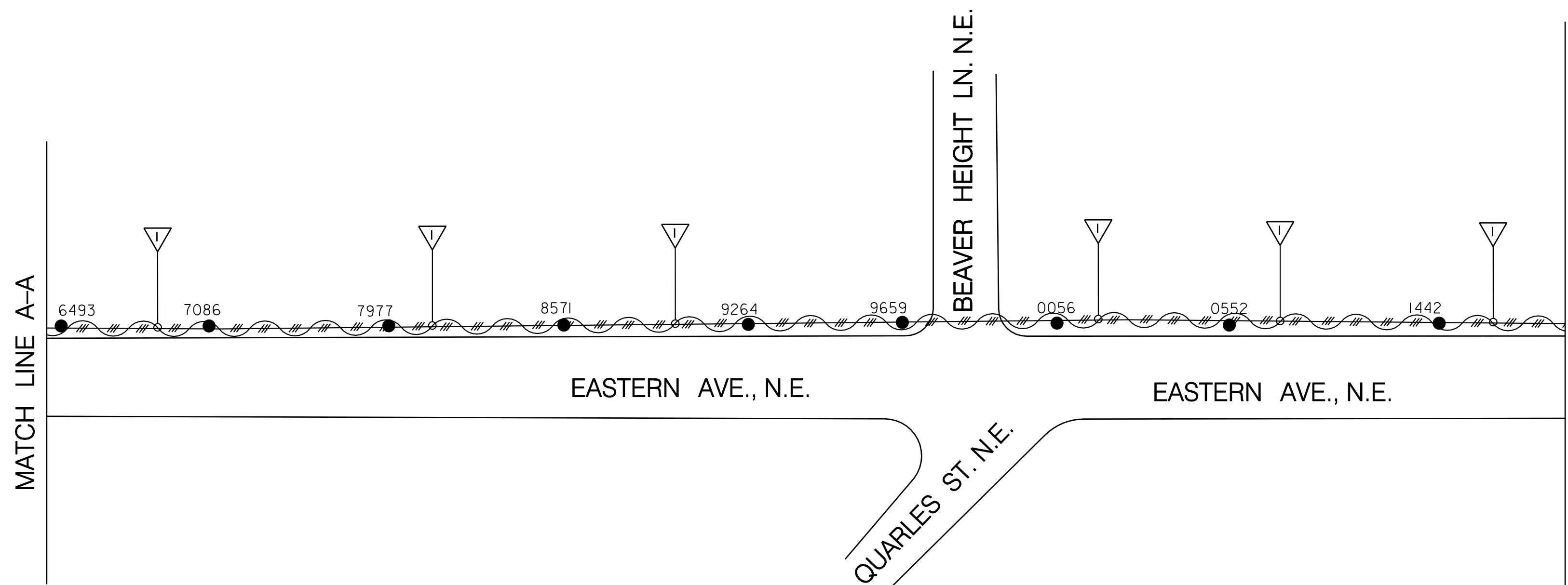
NOTE:
SEE DRAWING NO. S-190-C FOR COMMUNICATIONS CABLE ROUTING ON EASTERN AVENUE BETWEEN OLIVE STREET AND KENILWORTH AVENUE.

REMOVAL NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING 12 PAIR COMMUNICATION CABLE ALONG EASTERN AVE., N.E. BETWEEN THE EXISTING TRAFFIC CONTROLLERS LOCATED AT OLIVE ST., N.E. (TC3) AND MINNESOTA AVE., N.E. (TC2).
2. THE CONTRACTOR SHALL REMOVE EXISTING 12 PAIR COMMUNICATION CABLE ALONG EASTERN AVE., N.E. BETWEEN THE EXISTING TRAFFIC CONTROLLERS LOCATED AT MINNESOTA AVE., N.E. (TC2) AND DIVISION AVE., N.E. (TC4).

LEGEND:

- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING OVERHEAD COMMUNICATION CABLE TO BE REMOVED
- EXISTING PEPCO WOOD POLE
- EXISTING HANDBOX
- 1-12 PAIR COMMUNICATION CABLE
- 2-12 PAIR COMMUNICATION CABLE



SG-05

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE PLAN I		DESIGNED BY KXZ
		DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	03 /09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER	DATE	SHEET 4 OF 8
PROGRAM MANAGER	DATE	DRAWING NO. S-653-D

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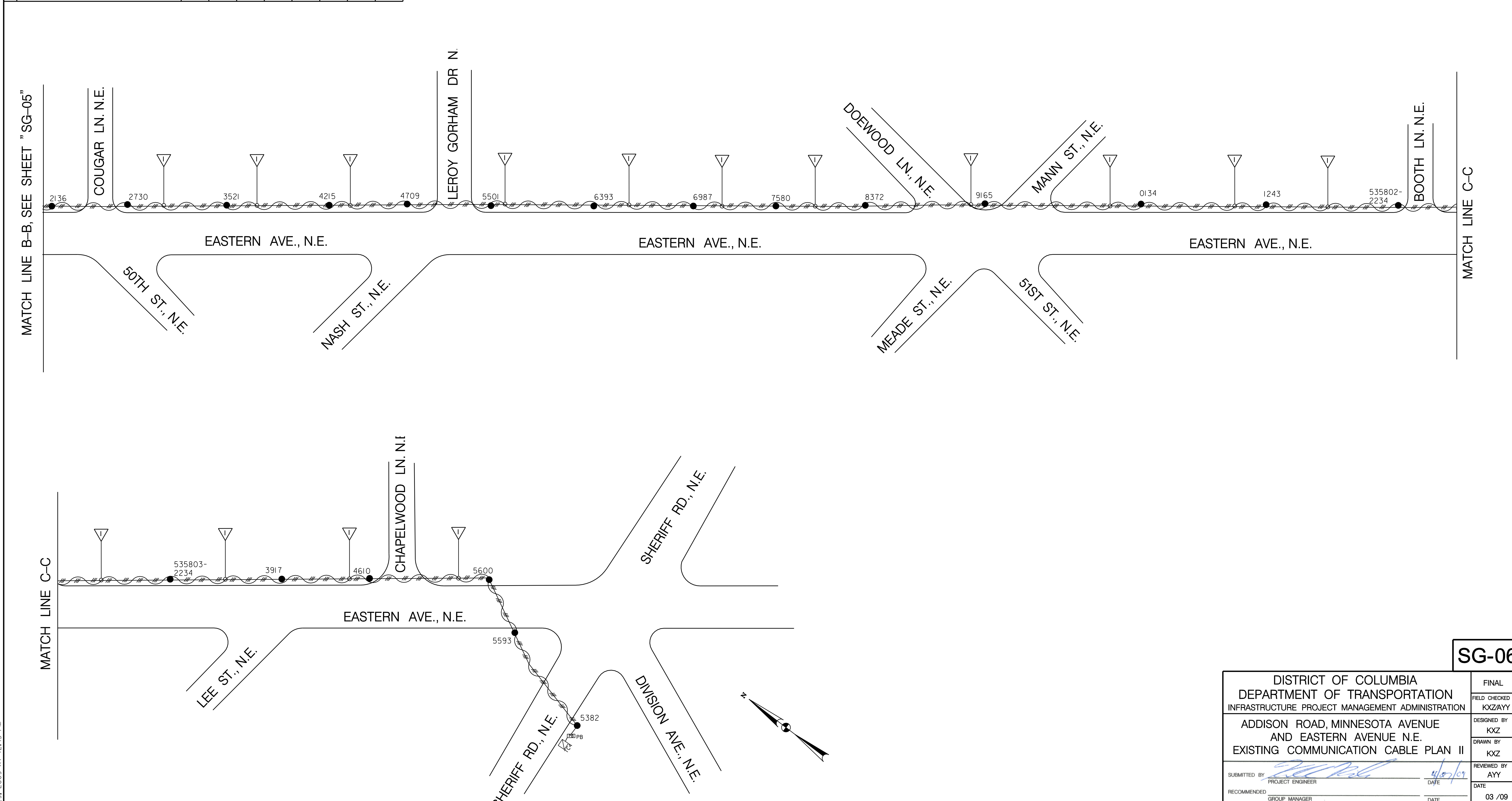
APPROVED BY _____ DATE _____

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Wednesday, April 29, 2009 AT 12:45 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	226	242

DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

EXISTING COMMUNICATION CABLE PLAN II



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Wednesday, April 23, 2009 AT 12:45 PM

SG-06

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. EXISTING COMMUNICATION CABLE PLAN II		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	03 / 09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER	DATE	SHEET 5 OF 8
PROGRAM MANAGER	DATE	DRAWING NO. S-653-D

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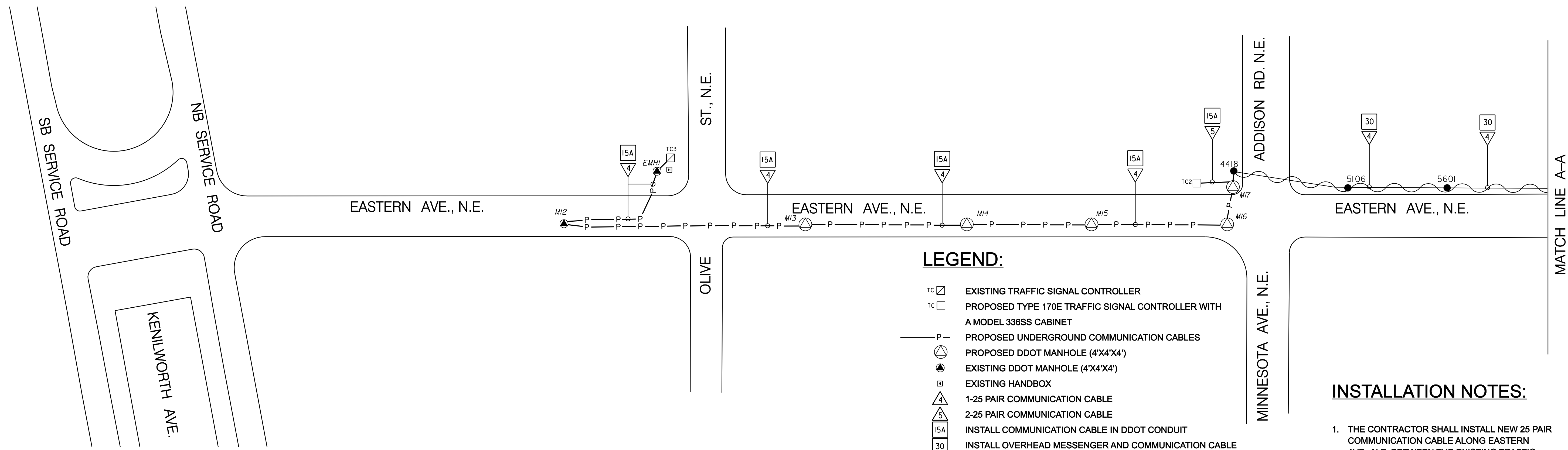
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APPROVED BY _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	227	242

PROPOSED COMMUNICATION CABLE PLAN I

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.



LEGEND:

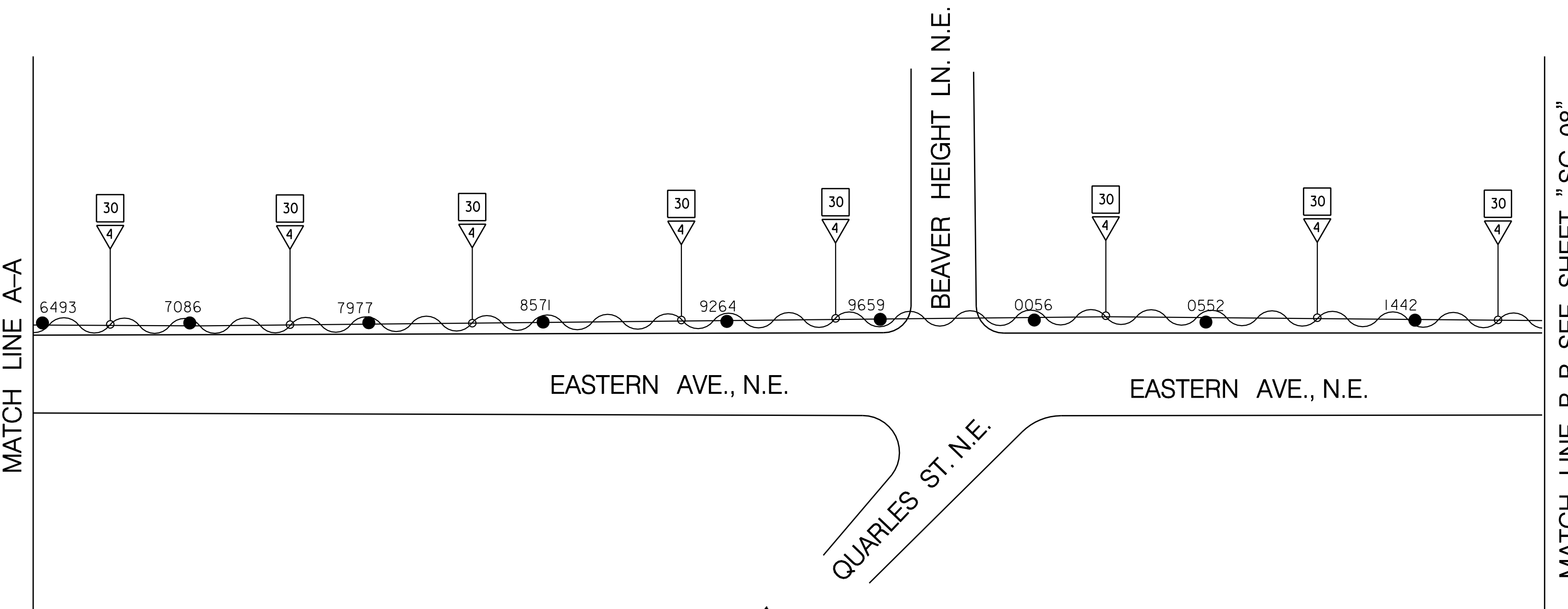
- TC EXISTING TRAFFIC SIGNAL CONTROLLER
- TC PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- PROPOSED UNDERGROUND COMMUNICATION CABLES
- PROPOSED DDOT MANHOLE (4'X4')
- EXISTING DDOT MANHOLE (4'X4')
- EXISTING HANDBOX
- 1-25 PAIR COMMUNICATION CABLE
- 2-25 PAIR COMMUNICATION CABLE
- INSTALL COMMUNICATION CABLE IN DDOT CONDUIT
- INSTALL OVERHEAD MESSENGER AND COMMUNICATION CABLE
- PROPOSED OVERHEAD COMMUNICATION CABLE

INSTALLATION NOTES:

- THE CONTRACTOR SHALL INSTALL NEW 25 PAIR COMMUNICATION CABLE ALONG EASTERN AVE., N.E. BETWEEN THE EXISTING TRAFFIC CONTROLLER LOCATED AT OLIVE ST., N.E. (TC3), AND THE PROPOSED TRAFFIC CONTROLLER AT MINNESOTA AVE., N.E. (TC2).
- THE CONTRACTOR SHALL INSTALL NEW 25 PAIR COMMUNICATION CABLE ALONG EASTERN AVE., N.E. BETWEEN THE EXISTING TRAFFIC CONTROLLER LOCATED AT DIVISION AVE., N.E. (TC4), AND THE PROPOSED TRAFFIC CONTROLLER AT MINNESOTA AVE., N.E. (TC2).

GENERAL NOTES:

- DDOT PERSONNEL WILL DISCONNECT COMMUNICATION CABLES IN THE TERMINAL BLOCK OF TRAFFIC SIGNAL CONTROLLERS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW UNSPLICED 12 PAIR COMMUNICATION CABLES AS PROPOSED SHOWN IN PLANS.
- DDOT PERSONNEL WILL CONNECT COMMUNICATION CABLES IN THE TERMINAL BLOCK OF TRAFFIC SIGNAL CONTROLLERS.
- ALL PROPOSED COMMUNICATION CABLES SHALL BE INSTALLED WITHOUT SPLICES.
- THE CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE DISRUPTION TO THE COMMUNICATION NETWORK. PROPOSED CABLES SHALL BE INSTALLED AND CONNECTED IMMEDIATELY AFTER EXISTING CABLES ARE DISCONNECTED.
- INSTALLATION DIMENSIONS SHOWN ARE APPROXIMATE. MODIFICATIONS SHALL BE MADE AS REQUIRED UNDER APPROVAL FROM THE ENGINEER.



REVISED FOR ADDENDUM NO. 1 **SG-07**

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE PLAN I		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY <i>[Signature]</i> PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	DATE 03 /09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER <i>William W. McShane</i> SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER	DATE	SHEET / OF 6 / 8
PROGRAM MANAGER	DATE	DRAWING NO. S-653-D

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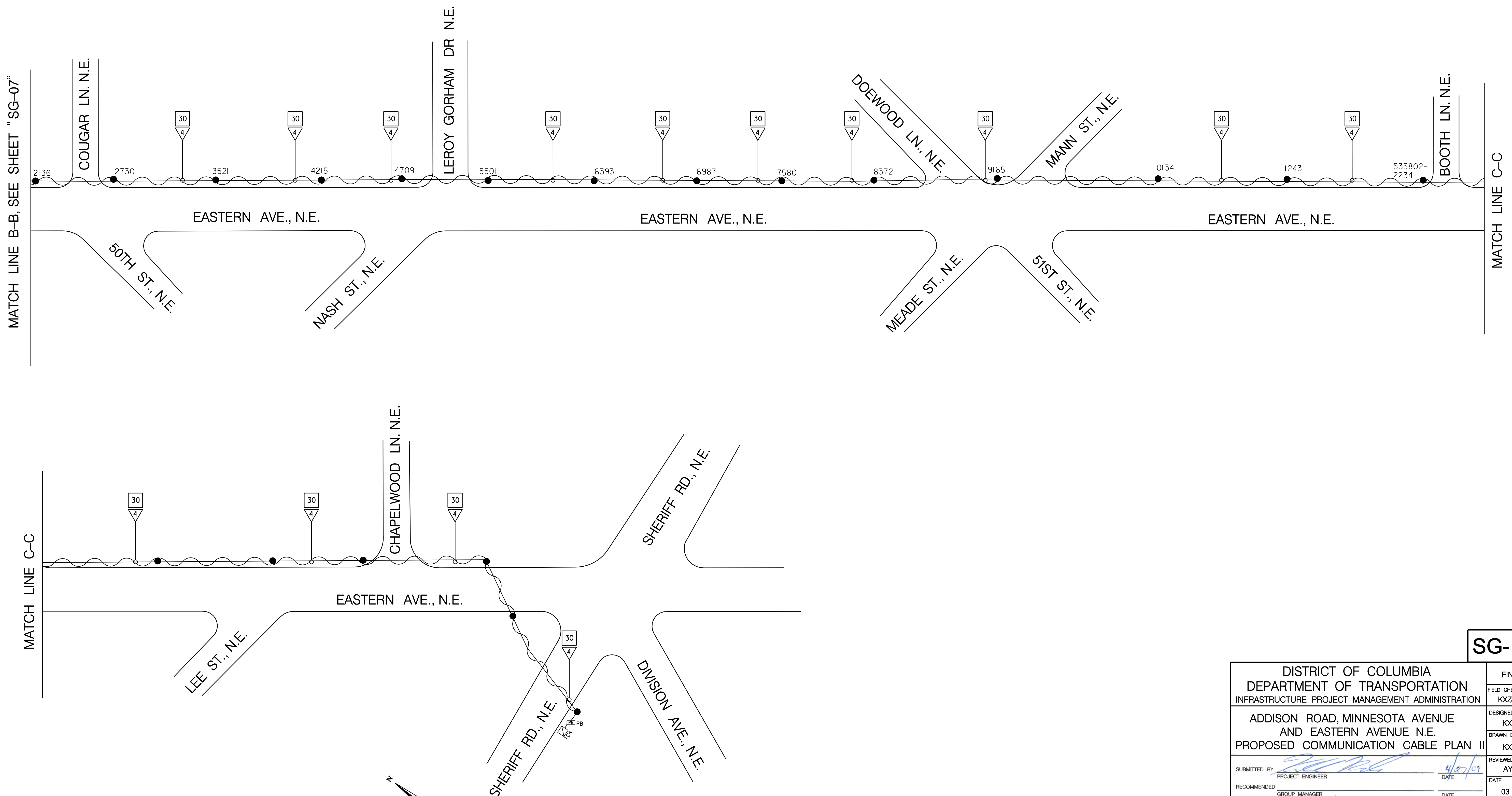
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DESCRIPTION	REVISION							
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.	APP.

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	228	242

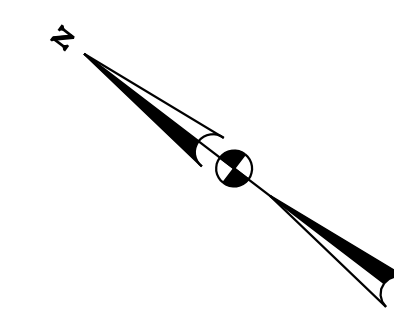
PROPOSED COMMUNICATION CABLE PLAN II



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Wednesday, April 23, 2009 AT 12:45 PM

SG-08

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE PLAN II		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE 03 / 09	SCALE 1" = 50'
APPROVED SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SHEET / OF 7 / 8
DEPUTY PROGRAM MANAGER	DATE	DRAWING NO. S-653-D
PROGRAM MANAGER	DATE	



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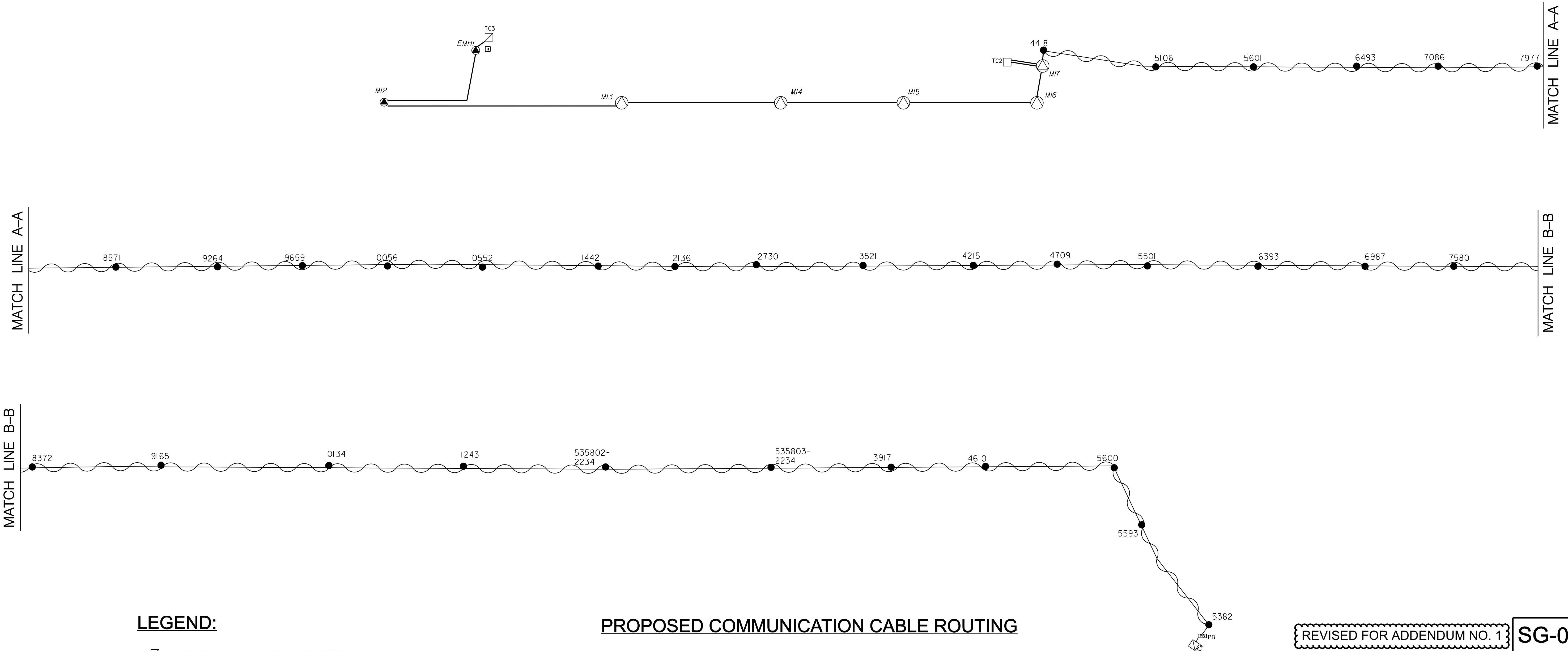
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DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	229	242

PROPOSED COMMUNICATION CABLE SCHEMATICS PLAN

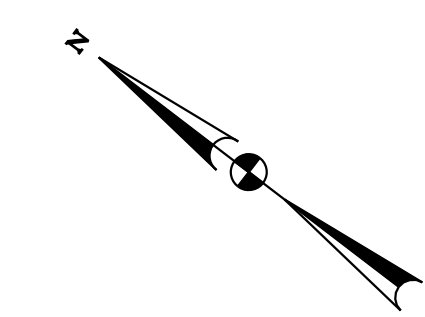


LEGEND:

- TC EXISTING TRAFFIC SIGNAL CONTROLLER
- TC PROPOSED TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET
- PROPOSED UNDERGROUND COMMUNICATION CABLES
- ⊗ PROPOSED DDOT MANHOLE (4'X4'X4')
- EXISTING DDOT MANHOLE
- EXISTING HANDBOX
- ▣ EXISTING PULLBOX

PROPOSED COMMUNICATION CABLE ROUTING

TC3 - EMH1 - M12 - M13 - M14 - M15 - M16 - M17 - TC2
 TC2 - M17 - 4418 - 5106 - 5601 - 6493 - 7086 - 7977 - 8571 - 9264 - 9659 - 0056 - 0552 - 1442 - 2136 - 2730 - 3521
 - 4215 - 4709 - 5501 - 6393 - 6987 - 7580 - 8372 - 9165 - 0134 - 1243 - 2234 - 2234 - 3917 - 4610 - 5600 - 5593 - 5382 - PB - TC4



REVISED FOR ADDENDUM NO. 1 **SG-09**

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION		FINAL FIELD CHECKED BY KXZ/AYY
ADDISON ROAD, MINNESOTA AVENUE AND EASTERN AVENUE N.E. PROPOSED COMMUNICATION CABLE III		DESIGNED BY KXZ DRAWN BY KXZ
SUBMITTED BY PROJECT ENGINEER	DATE 4/27/09	REVIEWED BY AYY
RECOMMENDED GROUP MANAGER	DATE	03 / 09
APPROVED ITS SYSTEMS SUPPORT BRANCH MANAGER SAFETY, STANDARDS AND DATA ANALYSIS, MANAGER	DATE 4/22/09	SCALE 1" = 50'
DEPUTY PROGRAM MANAGER	DATE	SHEET 8 OF 8
PROGRAM MANAGER	DATE	DRAWING NO. S-653-D

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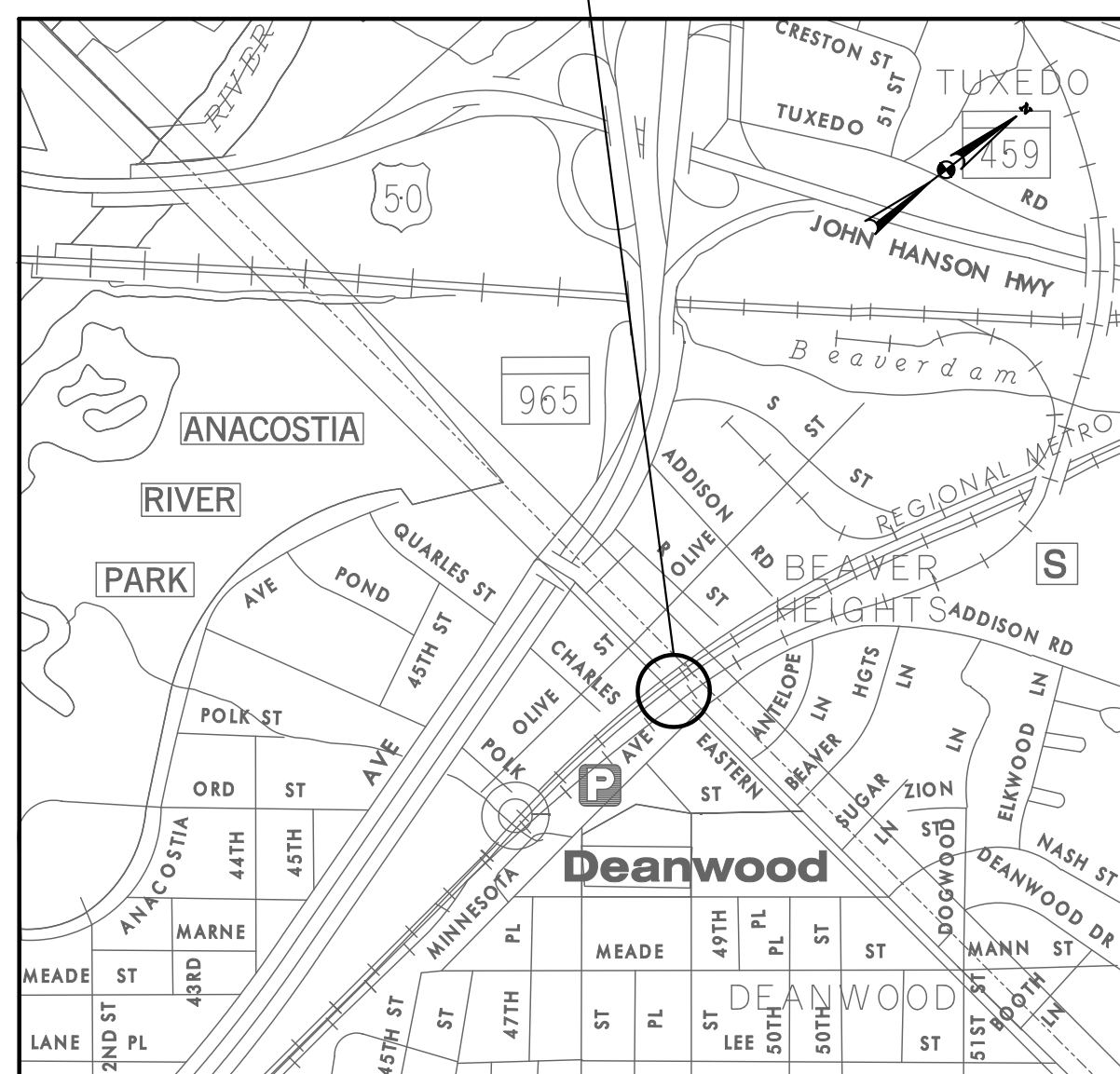
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	230	242

PROJECT SITE



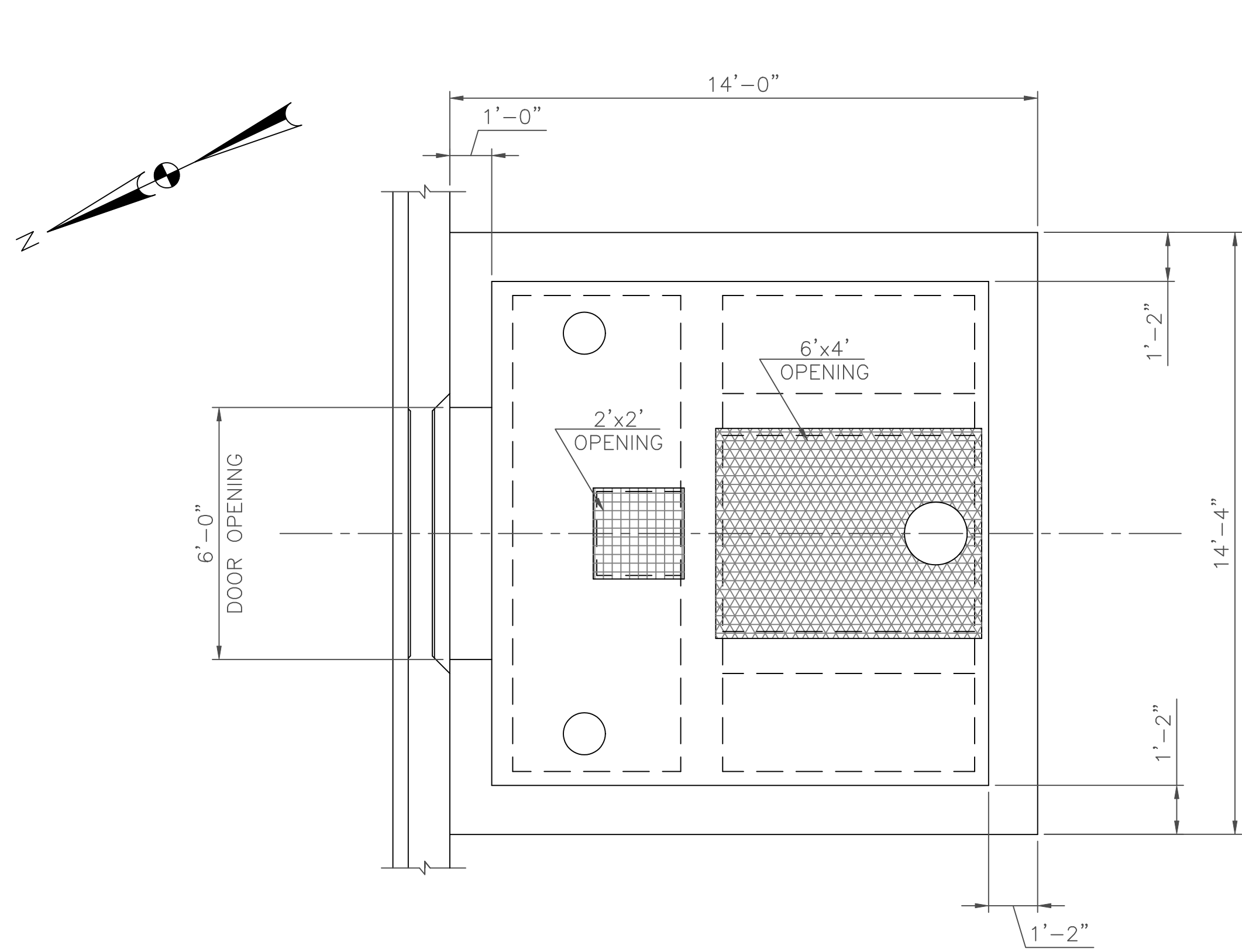
KEY MAP

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
PLANS OF PROPOSED
REHABILITATION OF EASTERN AVENUE
PUMPING STATION

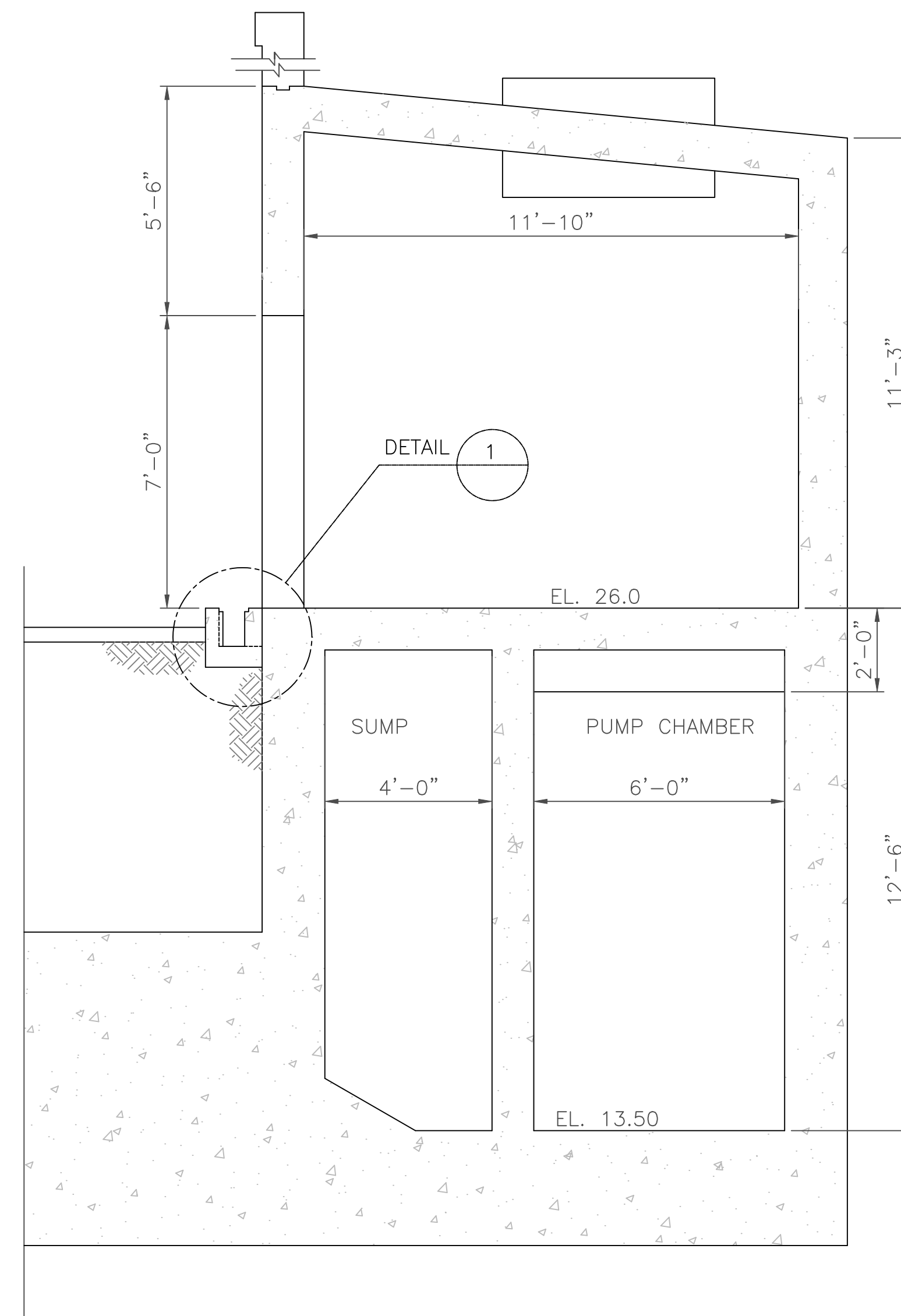
AS PART OF THE

RECONSTRUCTION OF EASTERN AVENUE BRIDGE
OVER KENILWORTH AVENUE, N.E.

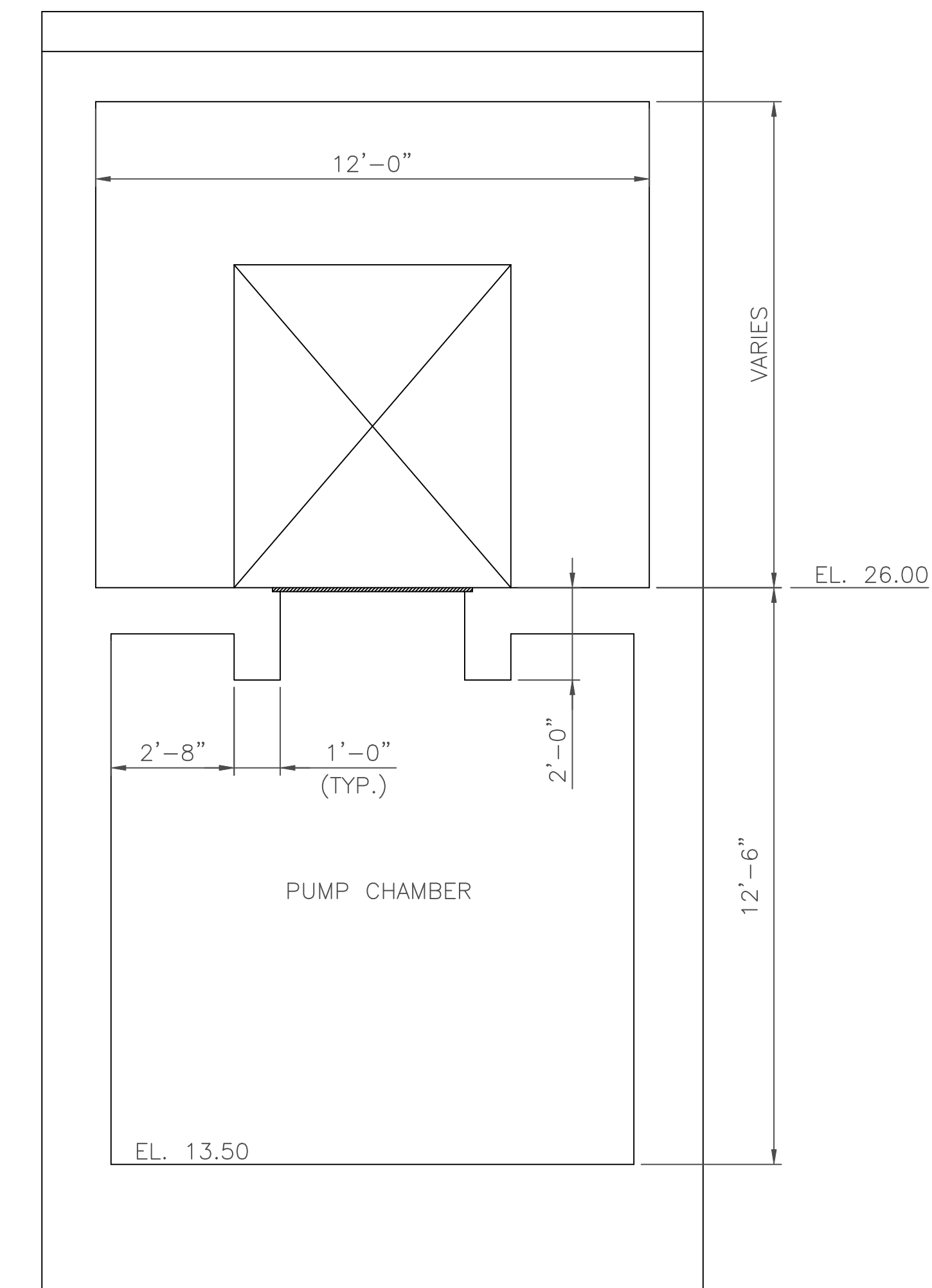
FEDERAL AID PROJECT NOS. BRIDGE - ARA-3207(003)
ROADWAY - ARA-3207(004)



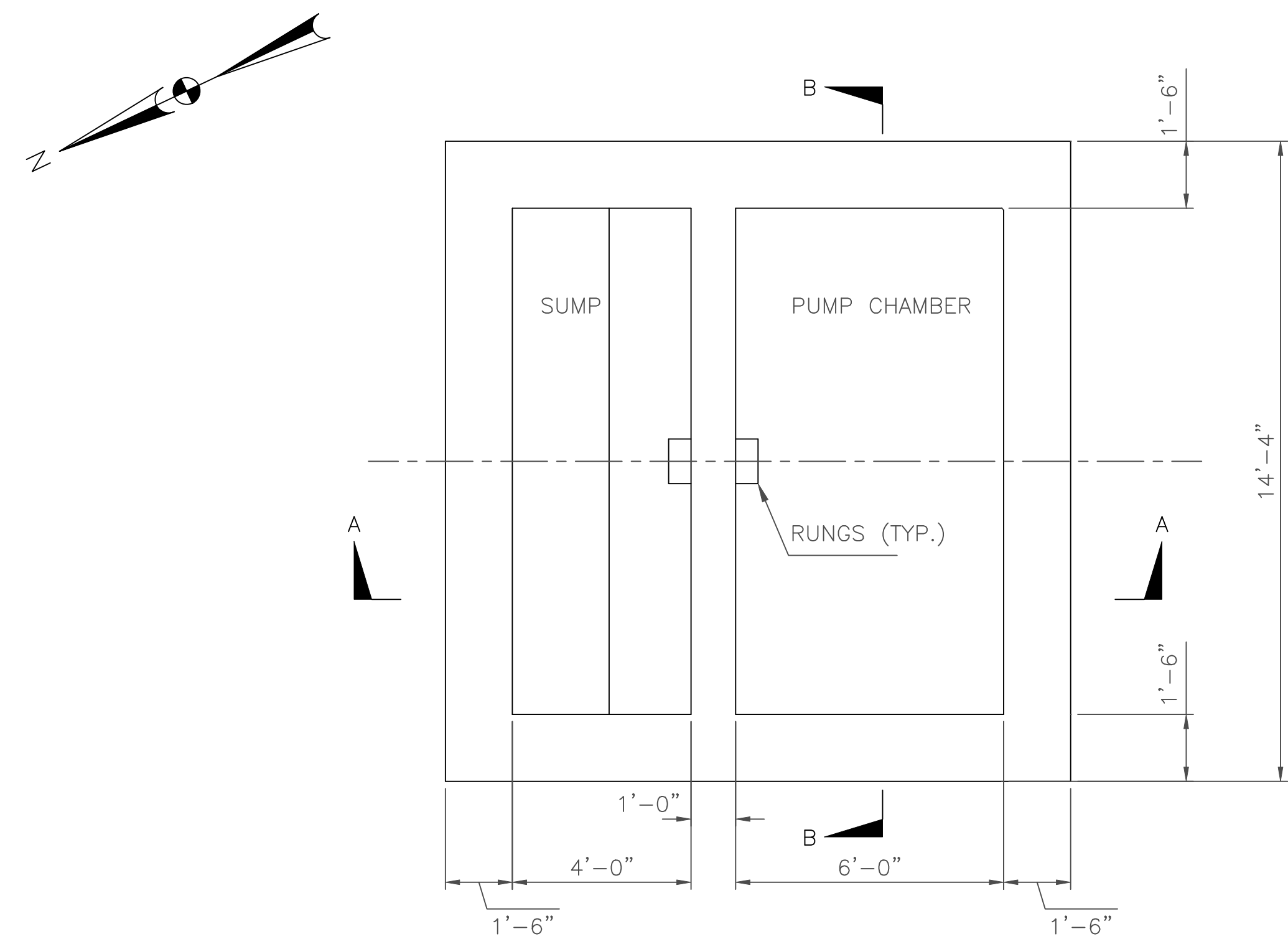
FLOOR PLAN - EXISTING PLAN, ELE. 26.0
SCALE: 1' = 3/8"



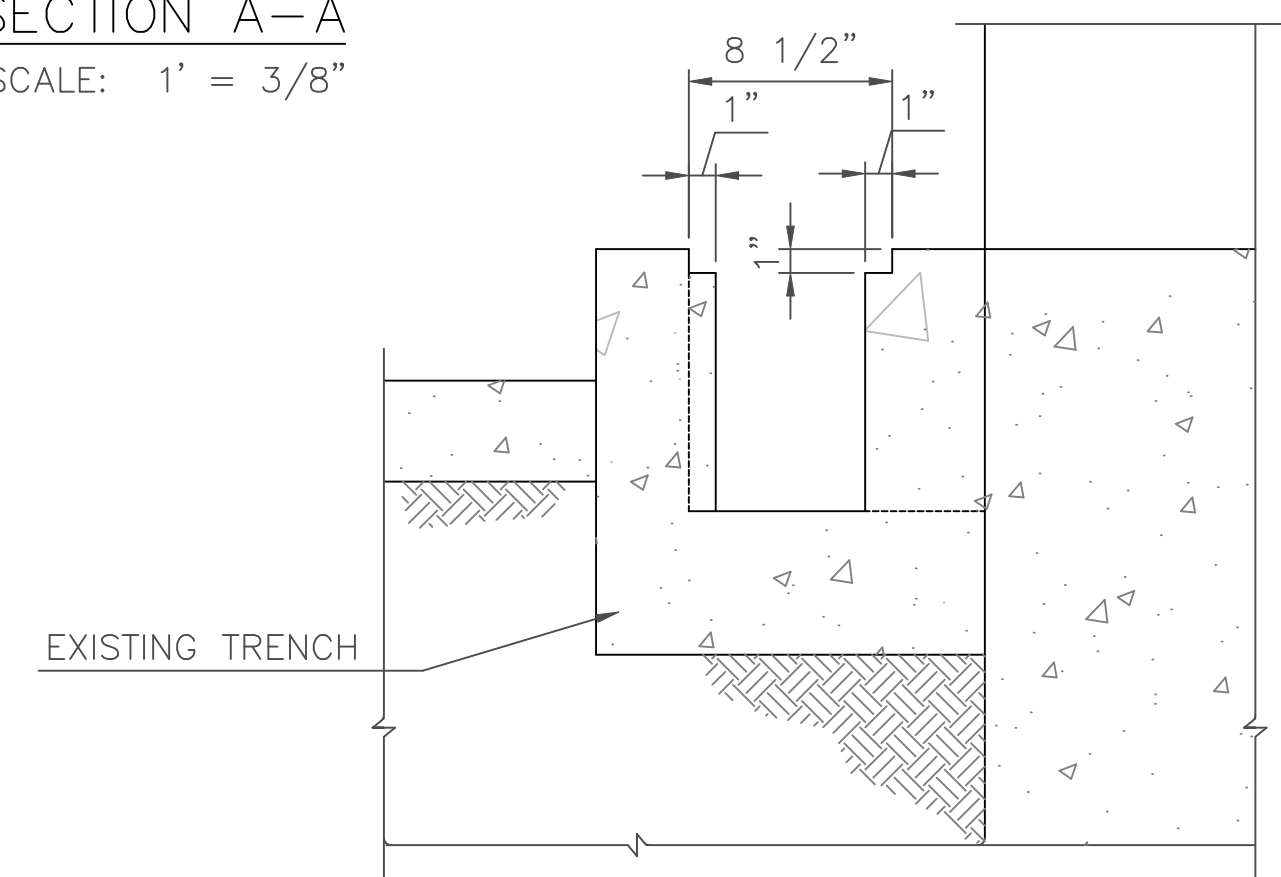
SECTION A-A
SCALE: 1' = 3/8"



SECTION B-B
SCALE: 1' = 3/8"



SUMP AND PUMP CHAMBER - EXISTING PLAN, ELE. 13.50
SCALE: 1' = 3/8"



DETAIL 1
SCALE: NONE

PS-S-2

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

REHABILITATION OF
EASTERN AVENUE PUMPING STATION

EASTERN AVENUE PUMP STATION
EXISTING STRUCTURE

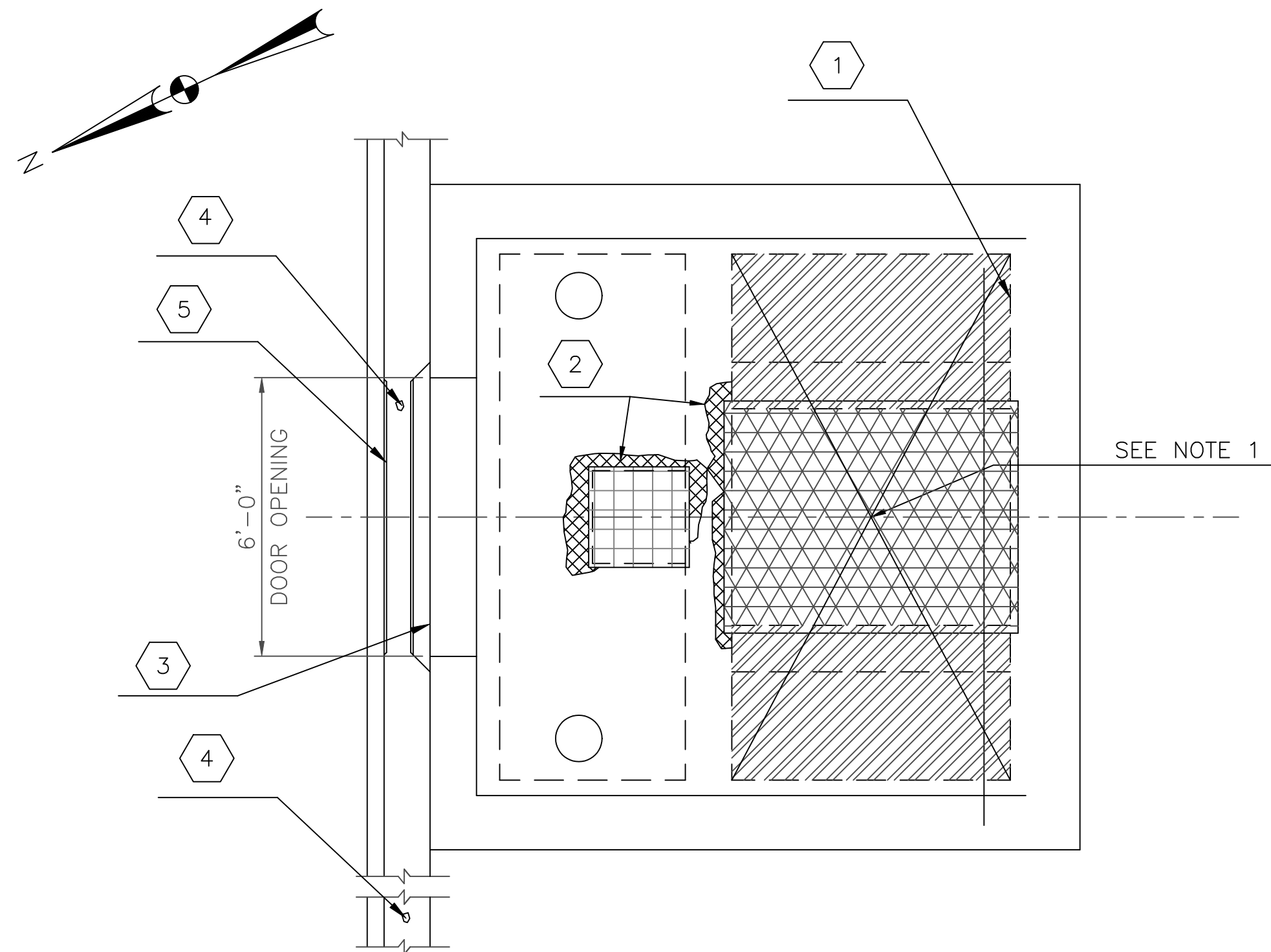
PROJECT ENG. RRP
DESIGNED BY RRP
CHECKED BY PH
DRAWN BY VM
PROJECT MGR. PH

DIVISION CHIEF

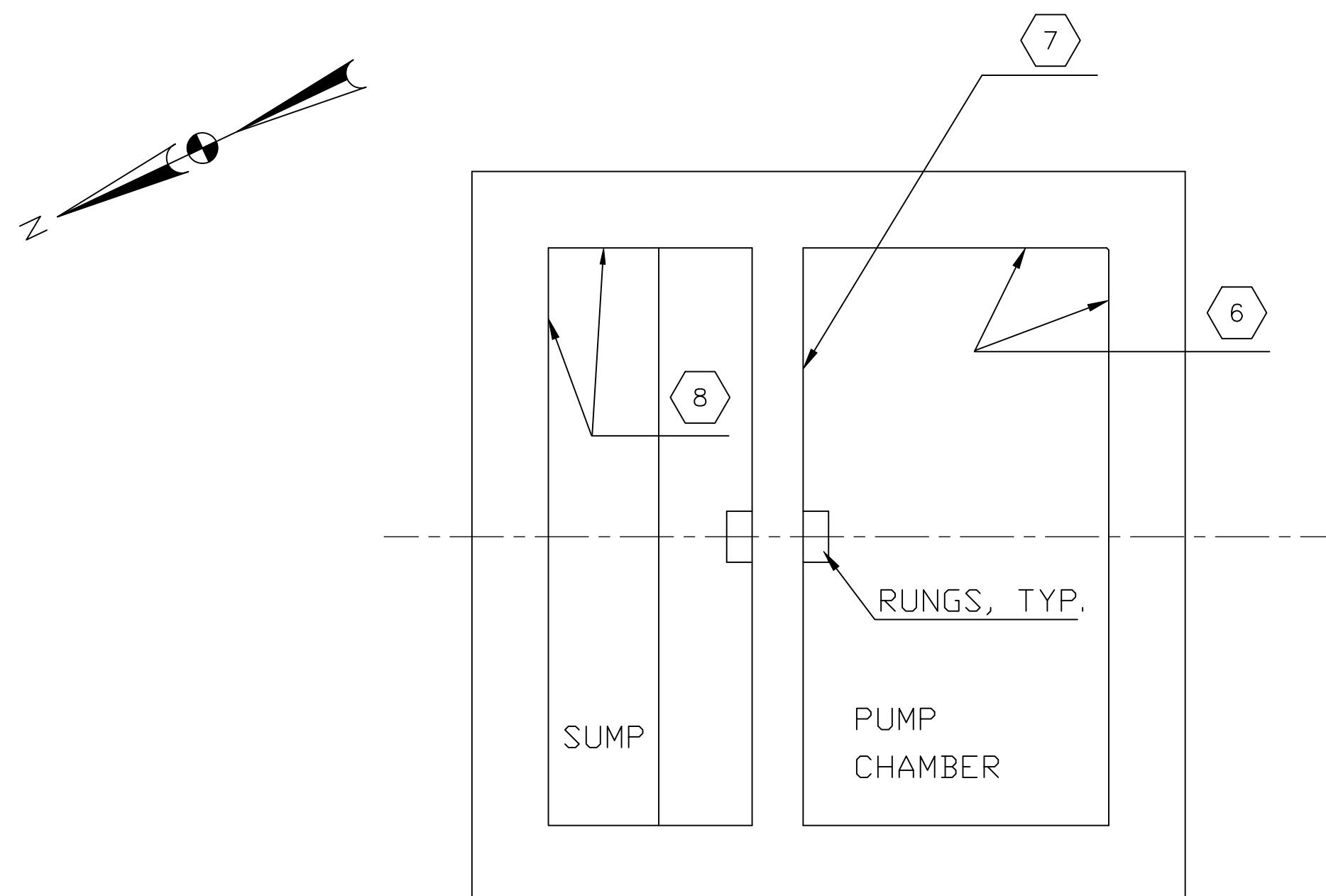
DATE _____
FILE _____



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



FLOOR PLAN - EXISTING PLAN, ELE. 26.0
SHOWING LOCATION OF DEFICIENCIES
SCALE: 1" = 3/8"



SUMP AND PUMP CHAMBER - EXISTING PLAN, ELE. 13.50
SHOWING LOCATION OF DEFICIENCIES
SCALE: 1" = 3/8"

NOTES:

1. THE FLOOR SLAB AND BEAMS WILL BE REMOVED AT THIS AREA, SEE SHEET S-6. REPAIR THE PUMP STATION AFTER THE DEMOLITION.
2. THE CONTRACTOR SHALL REPAIR ALL DETERIORATED AREA OF CONCRETE FOR PUMP STATION AS SHOWN ON THIS DRAWING AND AS DIRECTED BY ENGINEER.
3. INSPECT AND REPAIR ALL DEFICIENCIES IN JOINTS, CRACKS, LEAKAGE, SCALING, SAPLING, EXPOSED REINFORCING, AND DELAMINATION OF ALL CONCRETE AREA WHICH WERE NOT ACCESSIBLE DURING THE VISUAL INSPECTION. THE REPAIR AREA SHALL BE APPROVED BY ENGINEER.
4. COORDINATE THE REPAIR AREA WITH THE NEW MODIFICATION TO EXISTING STRUCTURE.
5. CLEAN AND APPLY THE CONCRETE PROTECTION COATING/WATERPROOFING TO ALL WALLS AND CEILINGS. SEE SPECIFICATIONS.
6. ROOF SLAB:
REMOVE ALL DEBRIS AND THOROUGHLY CLEAN TOP SURFACE. SEAL ALL CRACK AND REPAIR CONCRETE SURFACE IF ANY DEFICIENCIES IS ENCOUNTERED. THE REPAIR AREA SHALL BE APPROVED BY ENGINEER.
7. RUNGS/STEPS: CLEAN THE STEEL RODS IN SUMP AND PUMP CHAMBER AND PAINT.

CODED NOTES:

- ① 2- 1" DIA. HOLES ON SOUTH WALL - CLEAN AND FILL WITH GROUT.
- ② SPALLED AND DELAMINATION AROUND THE FLOOR OPENINGS (6 SF)
- ③ 12" X 6" SPALLED CONCRETE WITH EXPOSED REBAR AT THE TOP OF THE DOOR OPENING
- ④ 3" X 3" HOLE AT THE BOTTOM SLAB OF DRAINAGE THROUGH
- ⑤ SEVERAL CONCRETE SPALLED/CHIPPED ALONG THE EDGE OF CONCRETE DRAINAGE THROUGH
- ⑥ 6' X 12" SPALLED CONCRETE AT THE SOUTH EAST CORNER WALLS
- ⑦ 6' DIAGONAL CRACK AT BOTTOM OF THE WALL
- ⑧ REMOVE THE BUILT-UP MATERIAL ON THE WALLS AND CEILING

PS-S-3

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

REHABILITATION OF
EASTERN AVENUE PUMPING STATION

EASTERN AVENUE PUMP STATION
STRUCTURAL REPAIR LOCATION

PROJECT ENG. RRP
DESIGNED BY RRP
CHECKED BY PH
DRAWN BY VM
PROJECT MGR. PH

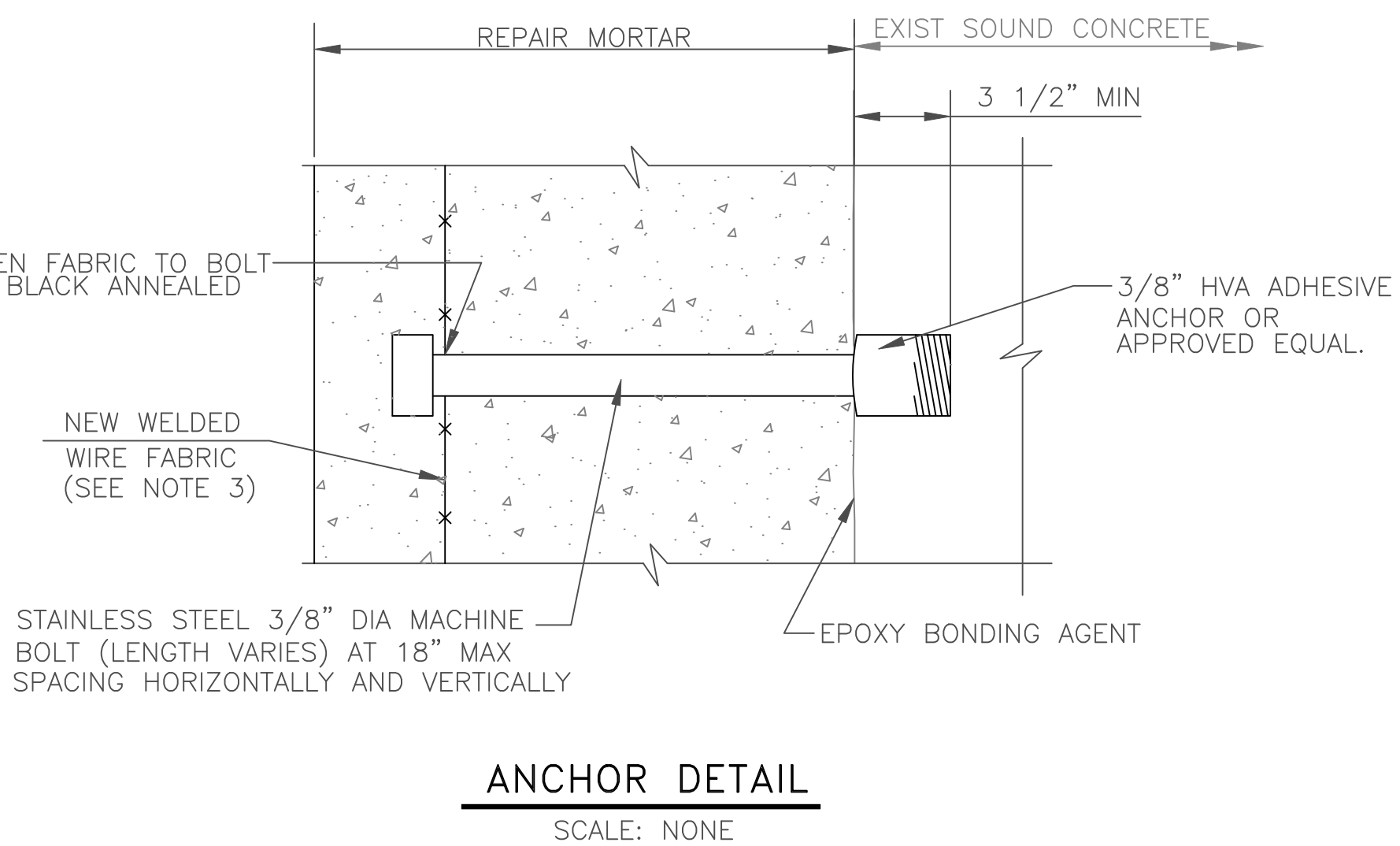
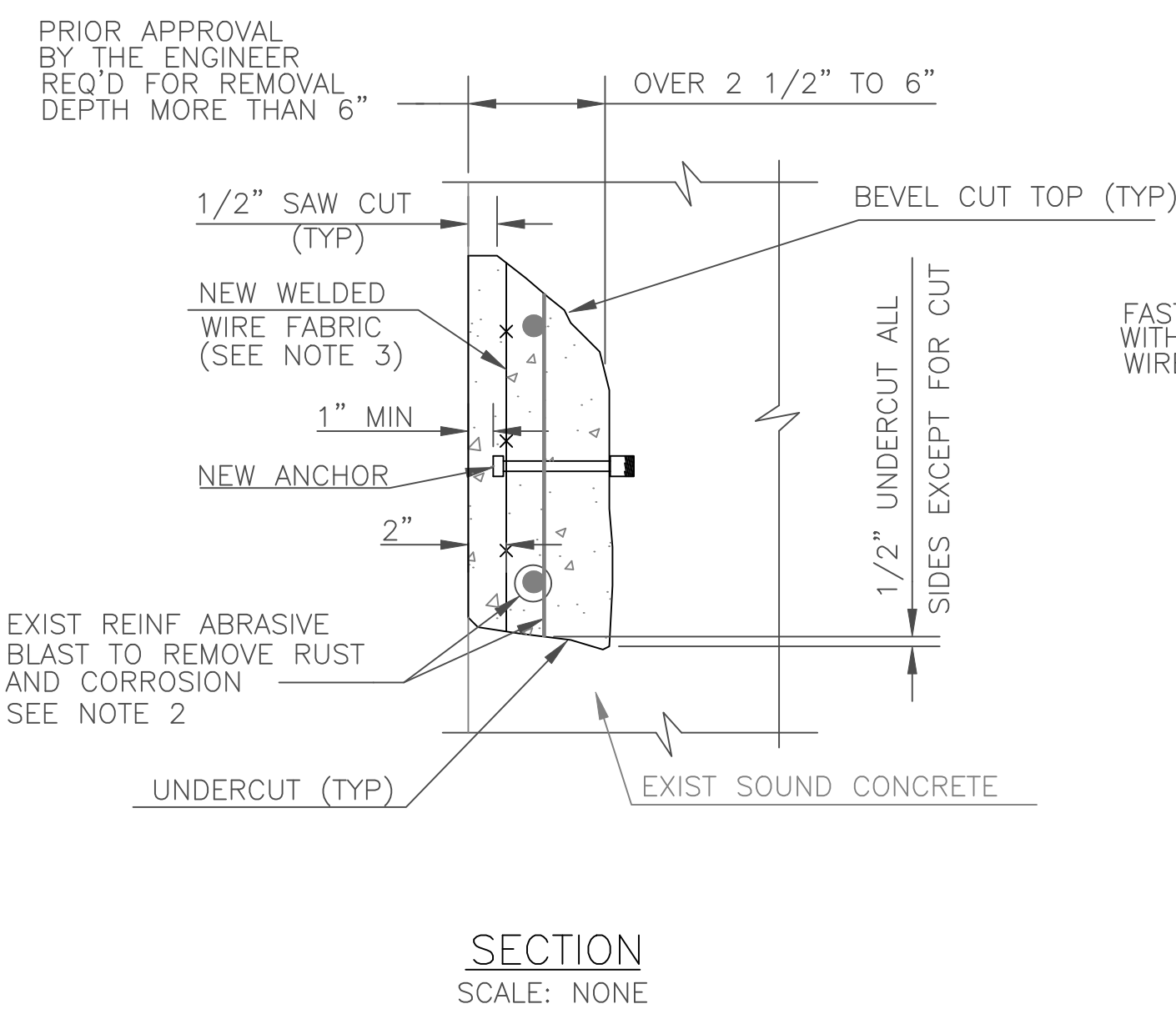
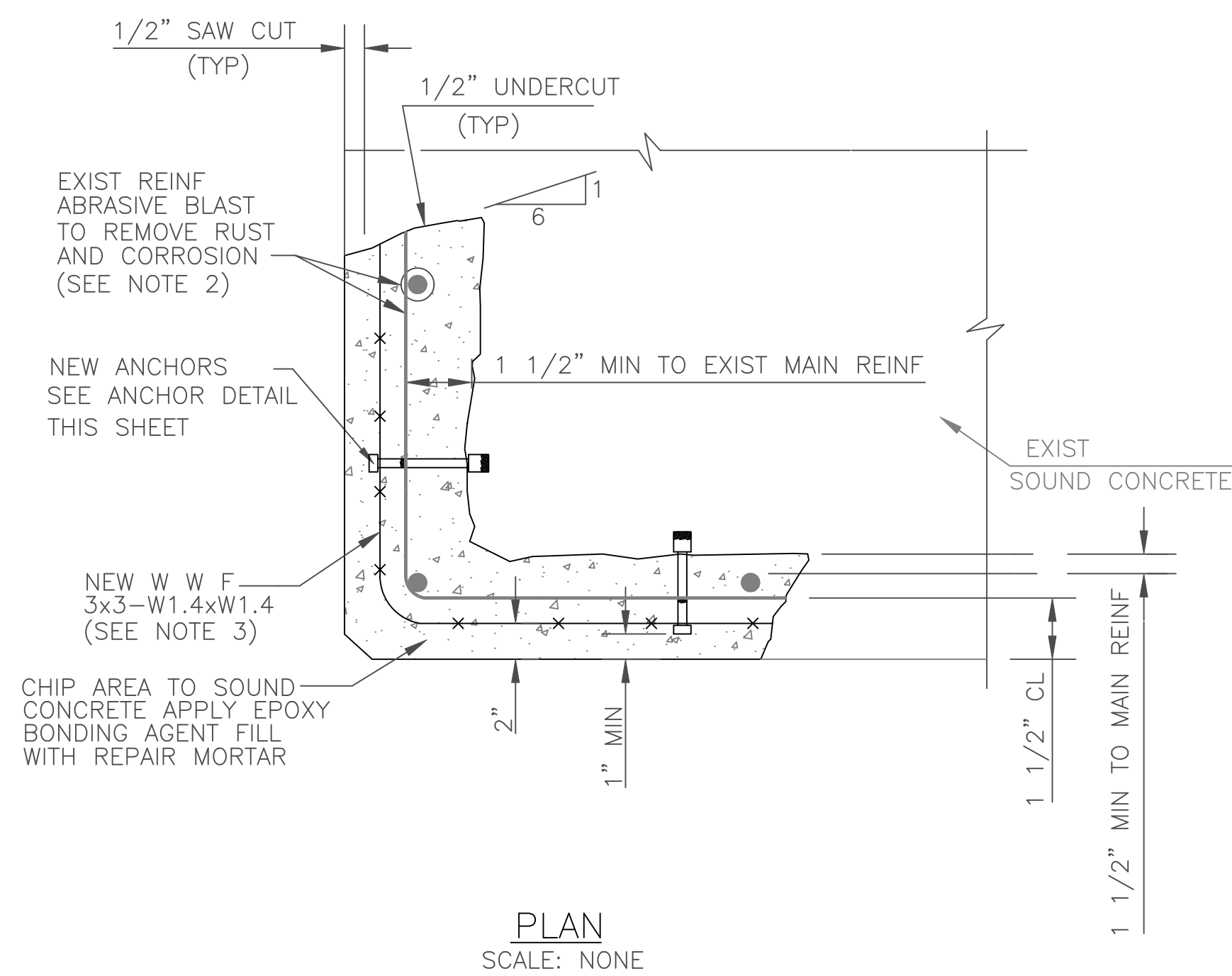
DIVISION CHIEF
DATE _____
FILE _____



NO.	DESCRIPTION	NAME	DATE

REVISIONS

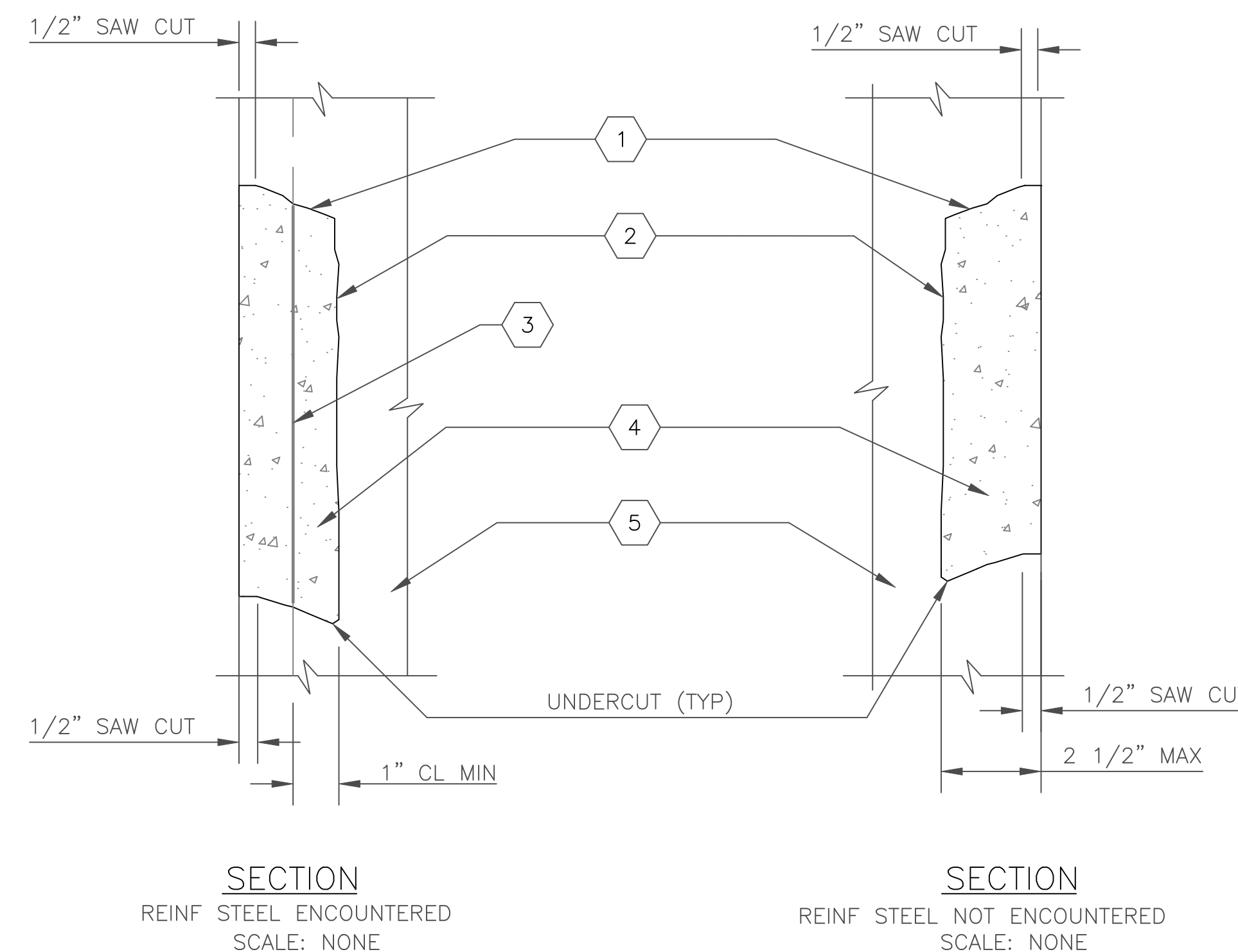
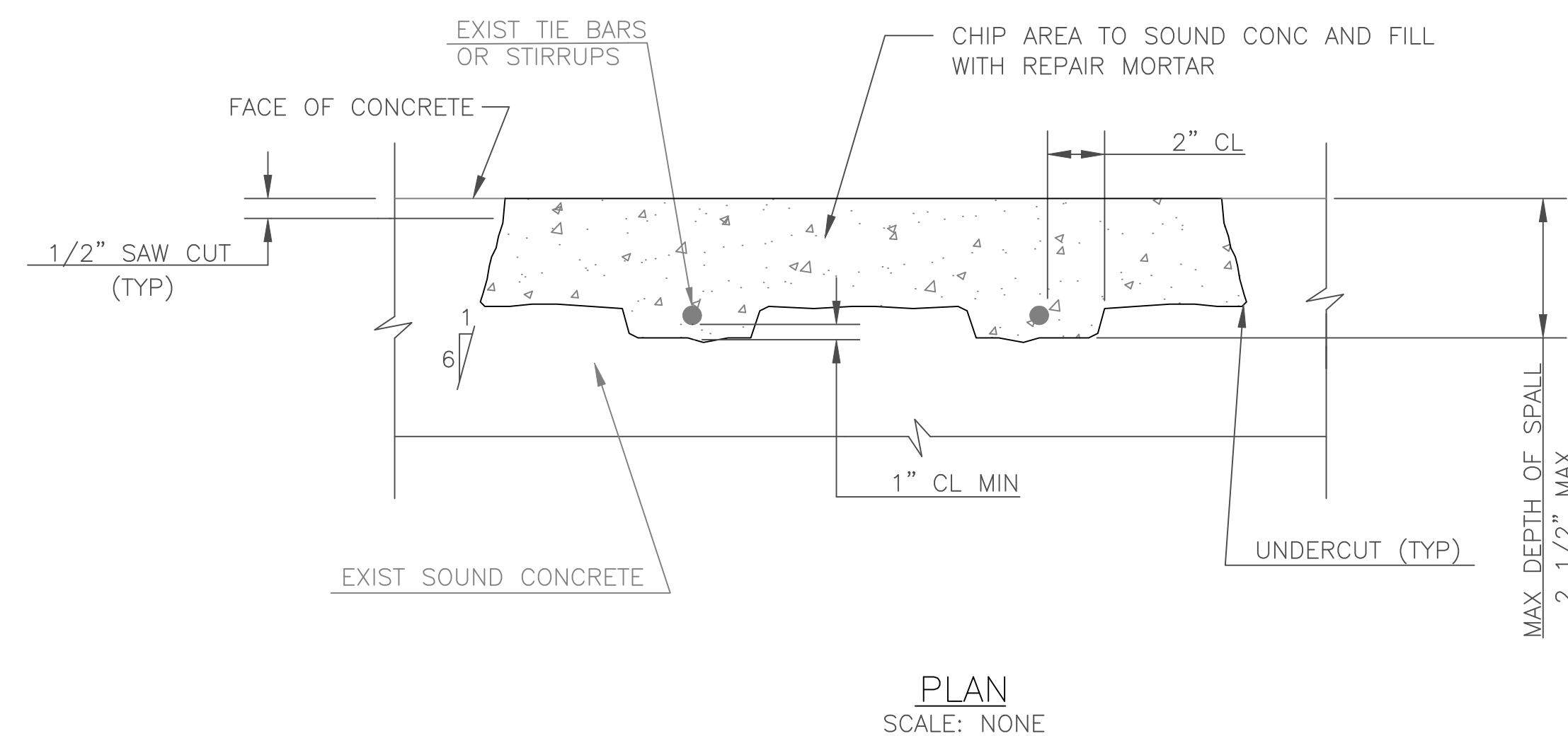
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
XXX	D.C.	BRIDGE - ARA-3207(003) ROADWAY - ARA-3207(004)	234	242



NOTES:

1. FOR REPAIR NOTES SEE SHEET S-5
2. IF REINFORCING STEEL HAS LOST MORE THAN 20% OF ITS CROSS SECTION, THEN SUPPLEMENT BAR OVER AFFECTED LENGTH WITH A NEW BAR (SAME SIZE AS AFFECTED BAR). NEW BAR MAY BE MECHANICALLY SPLICED TO AFFECTED BAR OR PLACED PARALLEL TO EXISTING BAR WITH SUFFICIENT LAP LENGTHS AT BOTH ENDS.
3. IF NO EXISTING REINFORCING IS ENCOUNTERED WITHIN 2" FROM EXISTING FORMED SURFACE PROVIDE WWF & ANCHORS AS INDICATED OTHERWISE OMIT.
4. FOR TYPE OF THE MORTAR SEE SPECIFICATION "CONCRETE REPAIR".

REPAIR TYPE ①
SPALL CONCRETE > 2 1/2"



CODED NOTES:

- ① BEVEL TOP CUT (TYP)
- ② EPOXY BONDING AGENT
- ③ EXIST REIN, SANDBLAST TO REMOVE RUST AND CORROSION
- ④ CHIP AREA TO SOUND CONC AND FILL WITH REPAIR MORTAR
- ⑤ EXIST SOUND CONCRETE

REPAIR TYPE ②
SPALL CONCRETE ≤ 2 1/2"



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

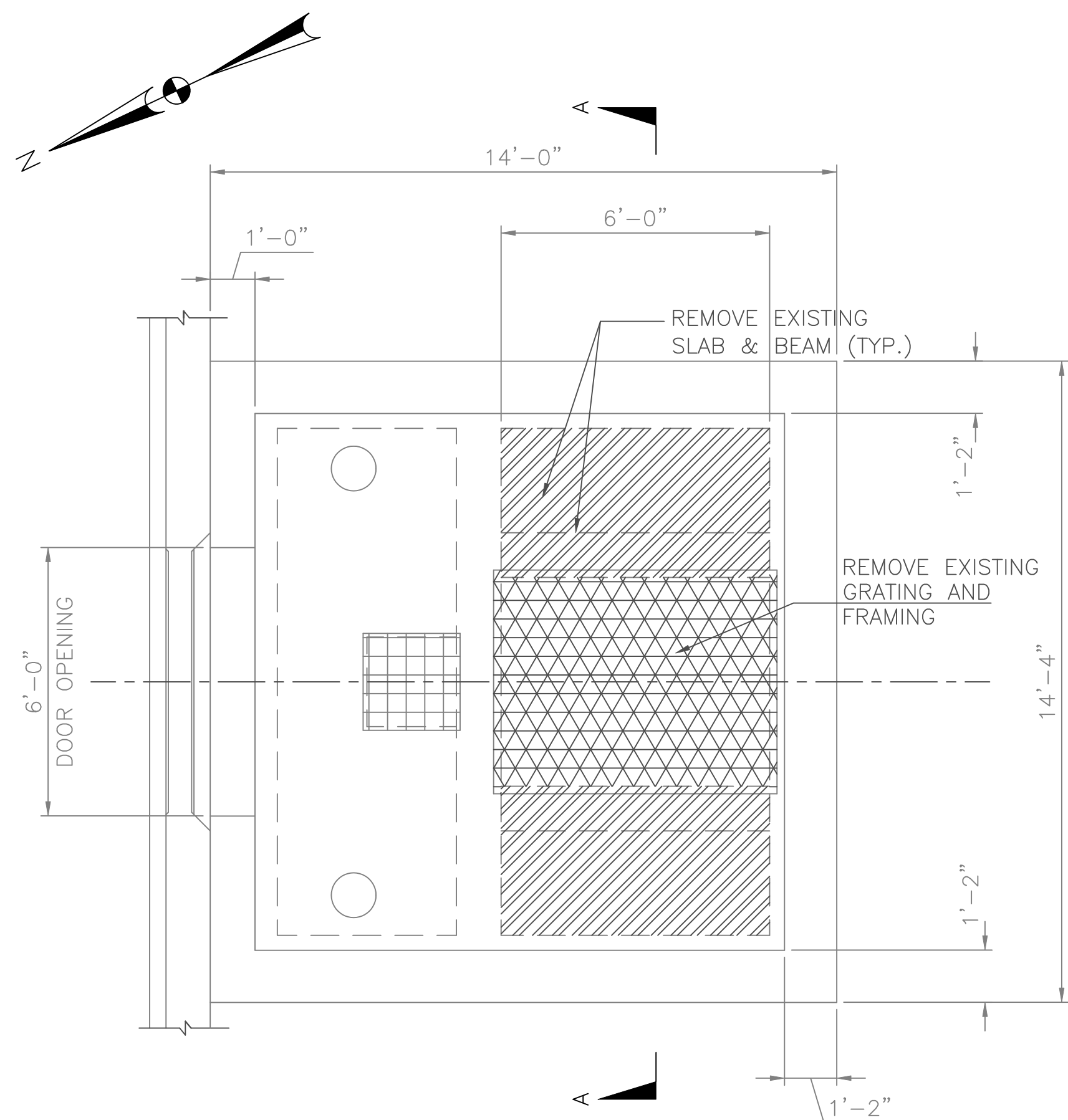
PS-S-4

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

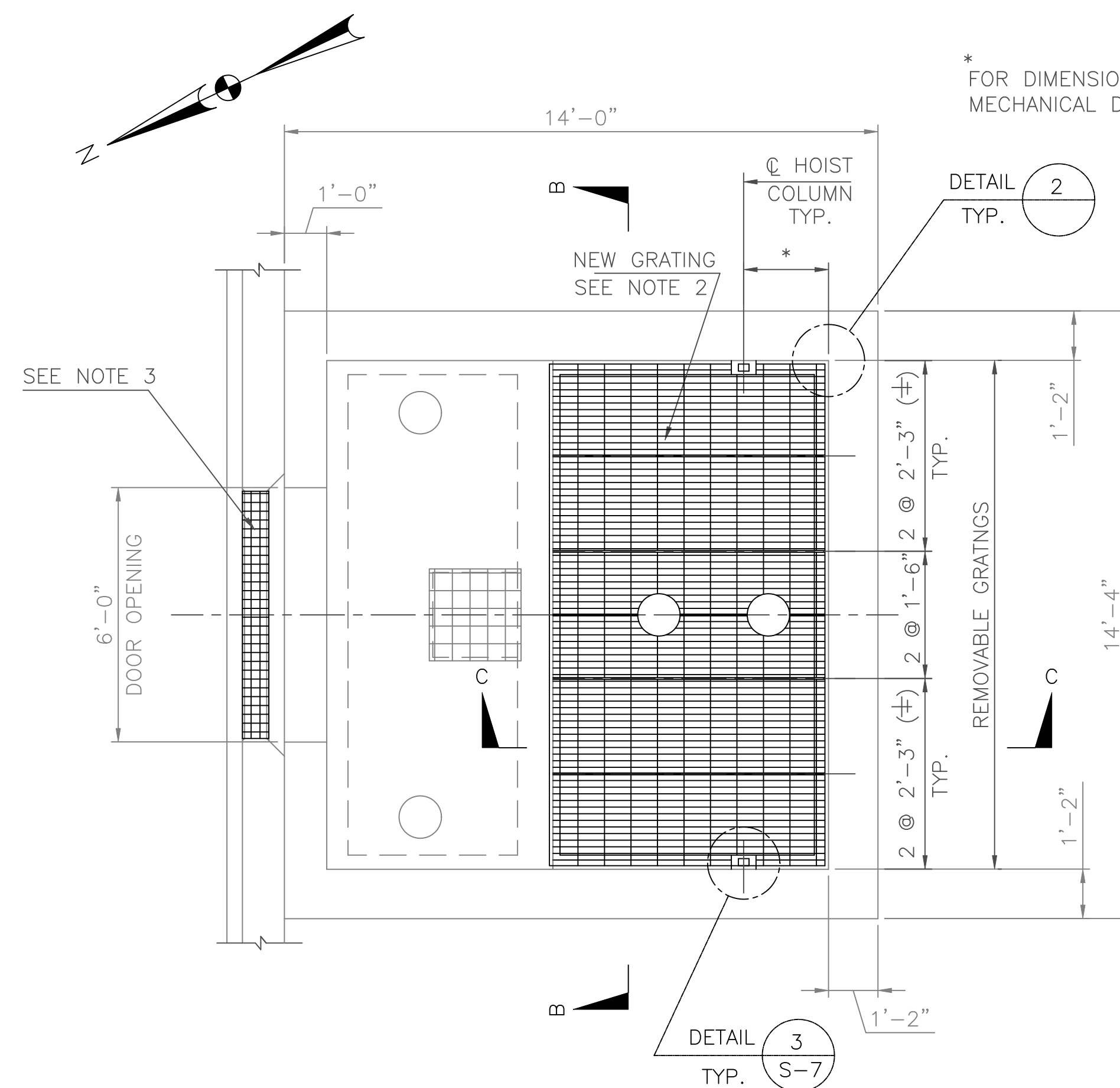
REHABILITATION OF
EASTERN AVENUE PUMPING STATION

EASTERN AVENUE PUMP STATION
TYPICAL CONCRETE REPAIR-1

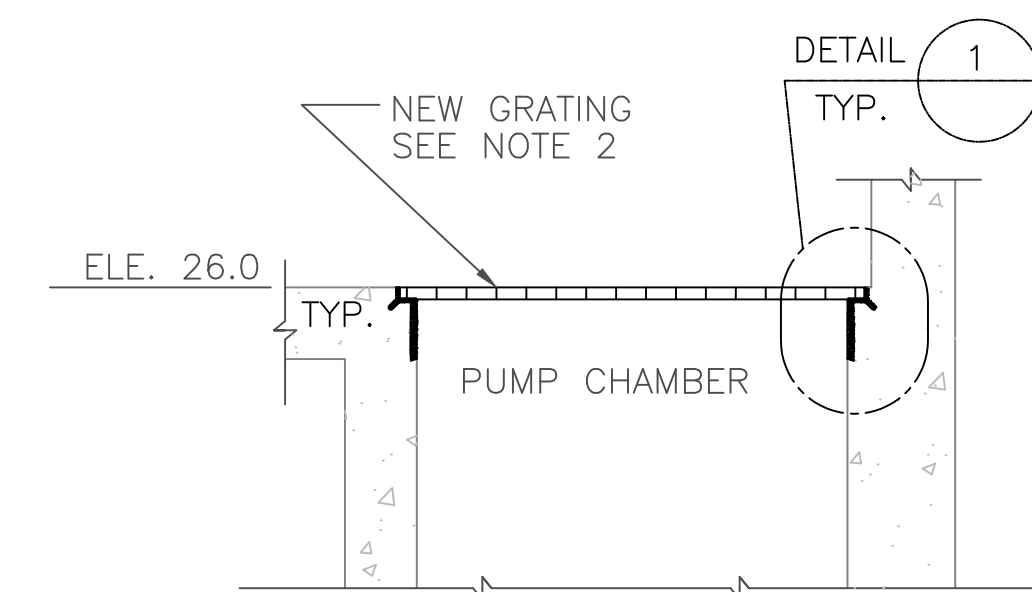
PROJECT ENG. RRP	DESIGNED BY RRP
CHECKED BY PH	DRAWN BY VM
PROJECT MGR. PH	DIVISION CHIEF
DATE	FILE



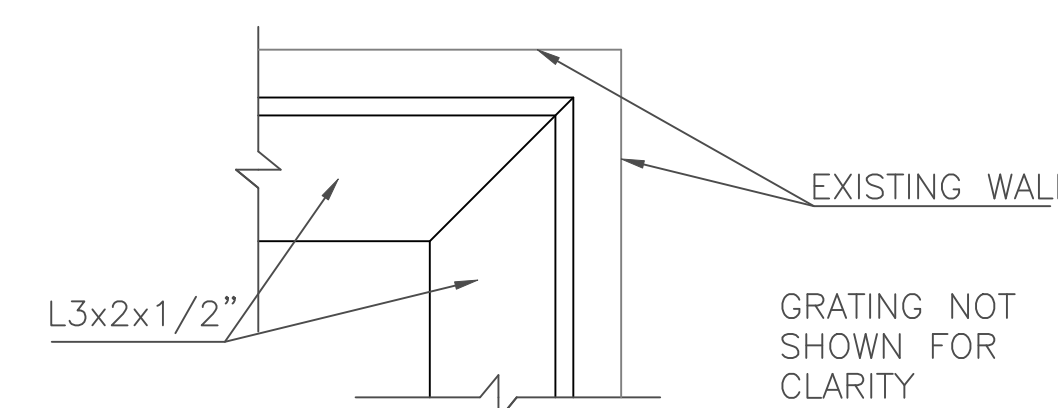
DEMOLITION FLOOR PLAN
SCALE: 1' = 3/8"



PROPOSED FLOOR PLAN
SCALE: 1' = 3/8"



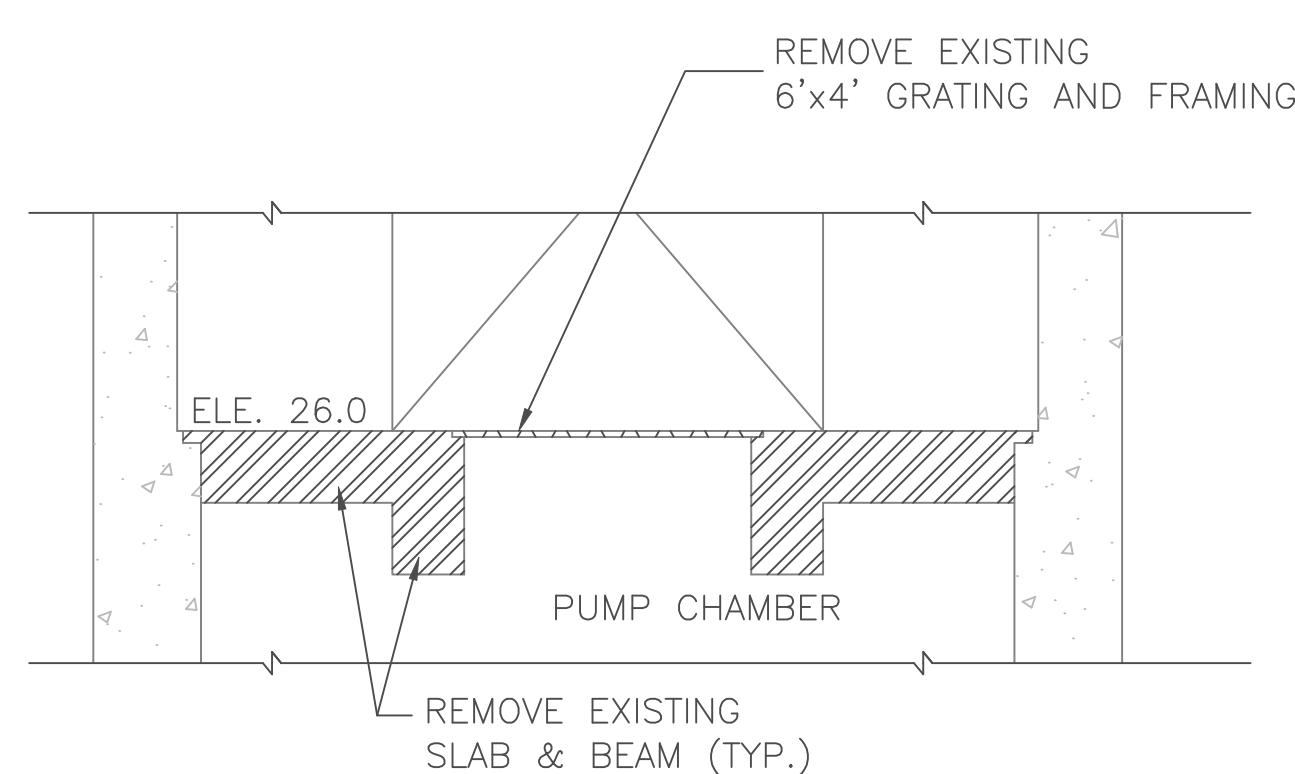
SECTION C-C
SCALE: 1' = 3/8"



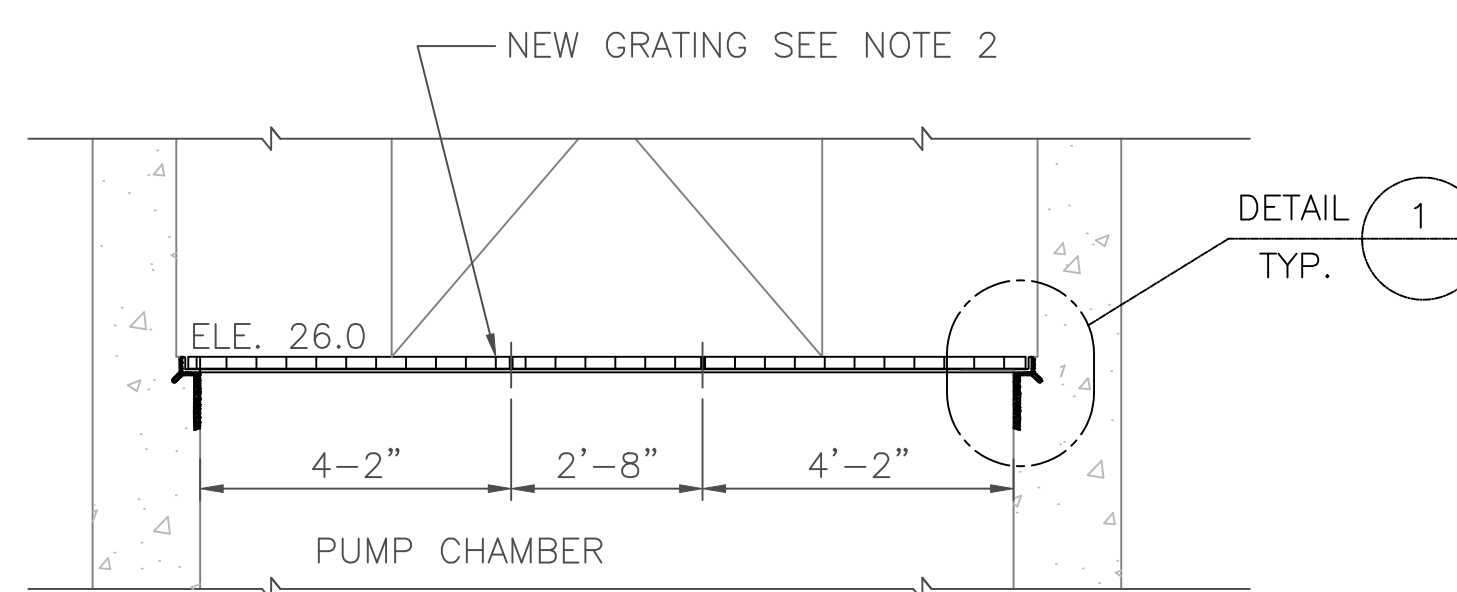
DETAIL 2
SCALE: 3" = 1'

NOTES:

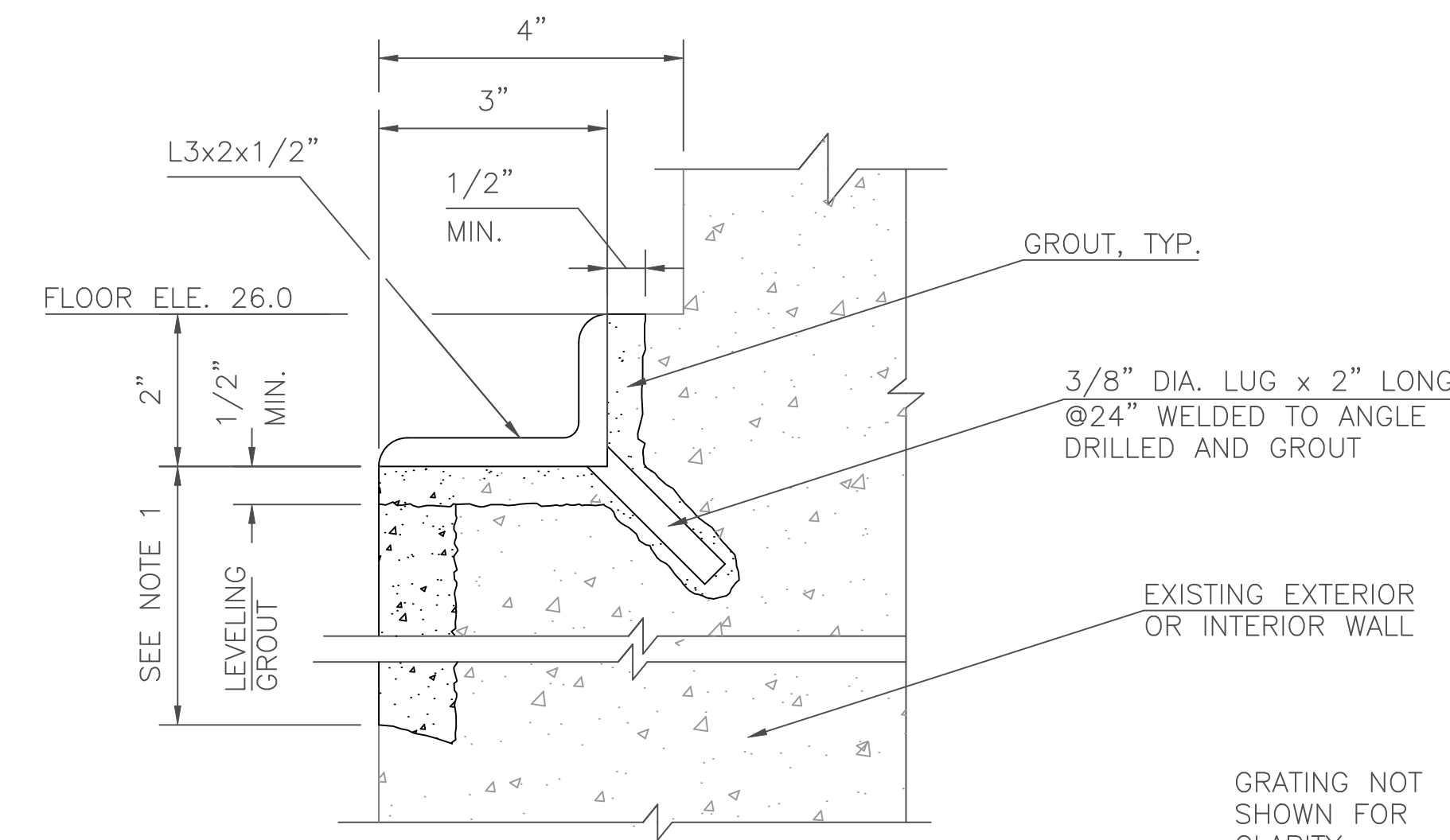
1. CHIP ADDITIONAL 1 INCH OF EXISTING CONCRETE BEYOND THE FACE OF EXISTING WALL AT THE CONCRETE SLAB AND BEAM REMOVAL. SAW CUT ANY EXPOSED REBARS AND REPAIR THE CONCRETE TO ITS FINAL GRADING ACCORDING TO REPAIR TYPE 2. THE COST OF REPAIR SHALL BE INCLUDED WITH THE TYPE 2 REPAIR.
2. HEAVY DUTY STEEL GRATING TYPE 19W2 WITH BAR SIZE 1 1/2" x 1/4" WITH MIN. 300 PSF LL CAPACITY BY ROBERTSON GRATING PRODUCTS OR EQUAL.
3. 8 1/2" X 6'-0" STEEL GRATING TYPE 19W2 WITH BAR SIZE 1" x 1/4" WITH MIN. 300 PSF LL CAPACITY BY ROBERTSON GRATING PRODUCTS OR EQUAL. SECURE THE GRATING BY ANCHORING TO THE EXISTING CONCRETE, SEE SHEET S-8 DETAIL 1.
4. ALL STEEL GRATING SHALL BE PAINTED IN ACCORDING TO SPECIFICATION.
5. THE COST AND QUANTITIES OF REPAIR FOR DETAIL 1 SHALL BE INCLUDED WITH TYPE 2 REPAIR.



SECTION A-A
SCALE: 1' = 3/8"



SECTION B-B
SCALE: 1' = 3/8"



DETAIL 1
SCALE: 6" = 1'

PS-S-6

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

REHABILITATION OF
EASTERN AVENUE PUMPING STATION

EASTERN AVENUE PUMP STATION
MODIFICATION TO EXISTING
STRUCTURE

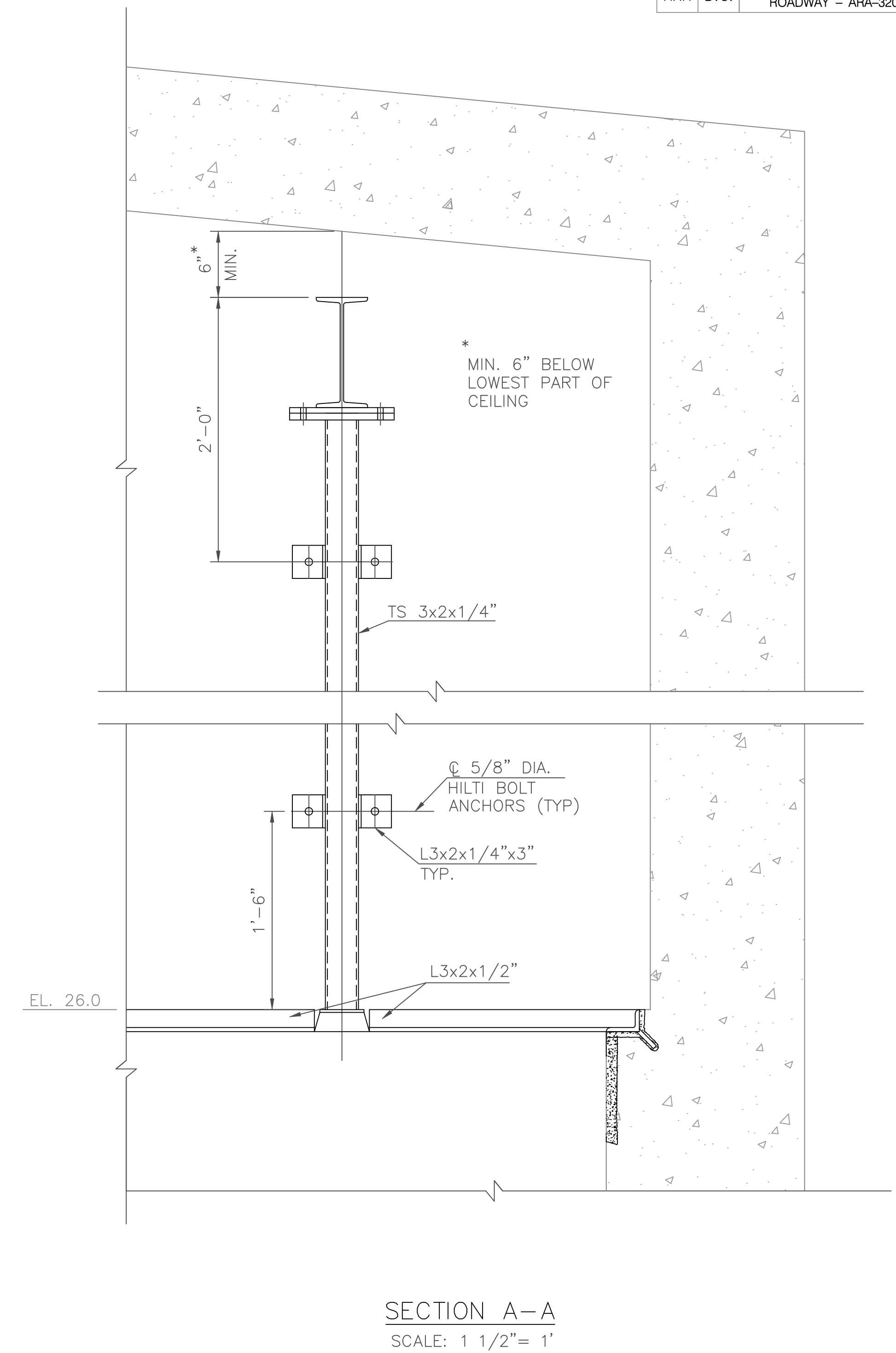
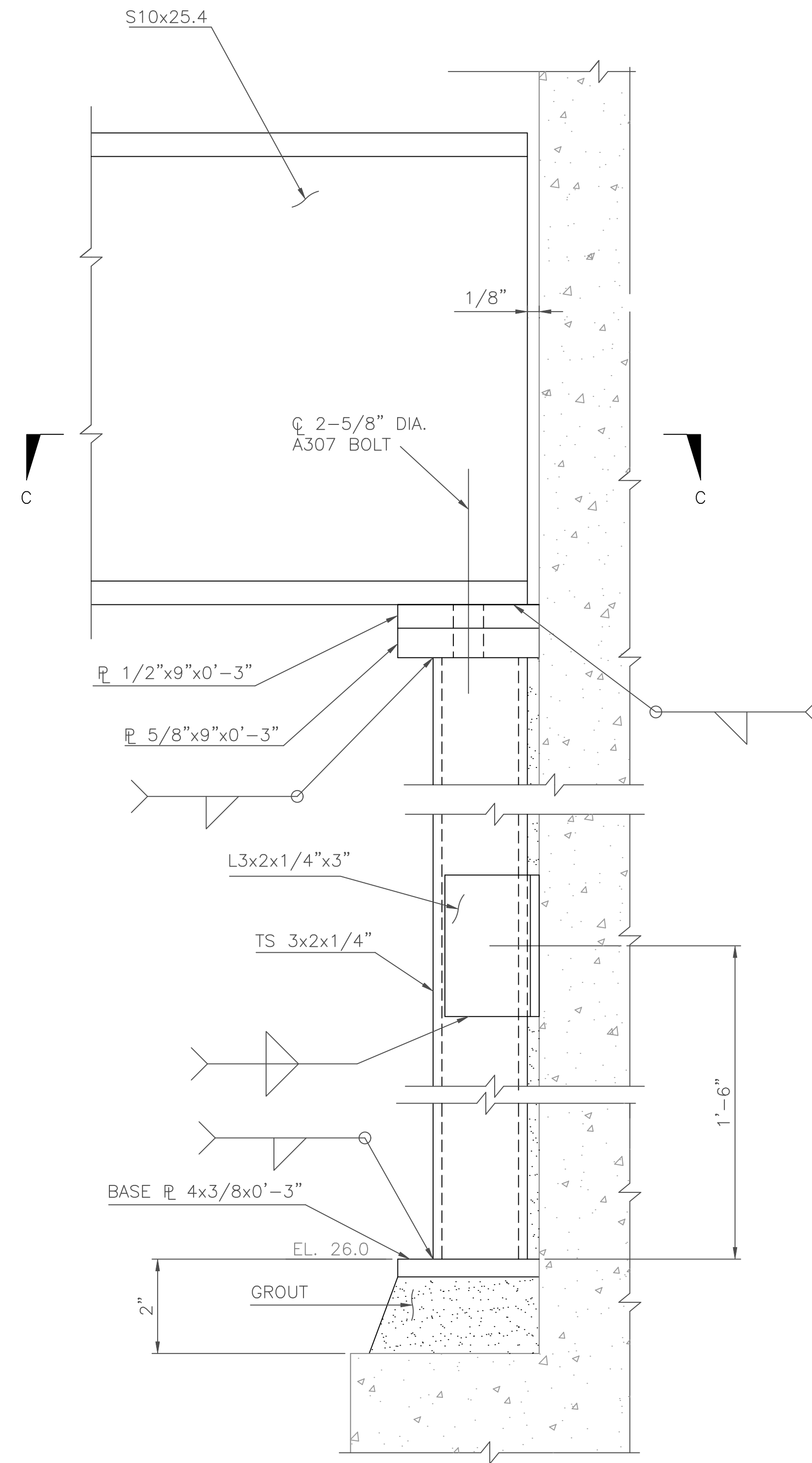
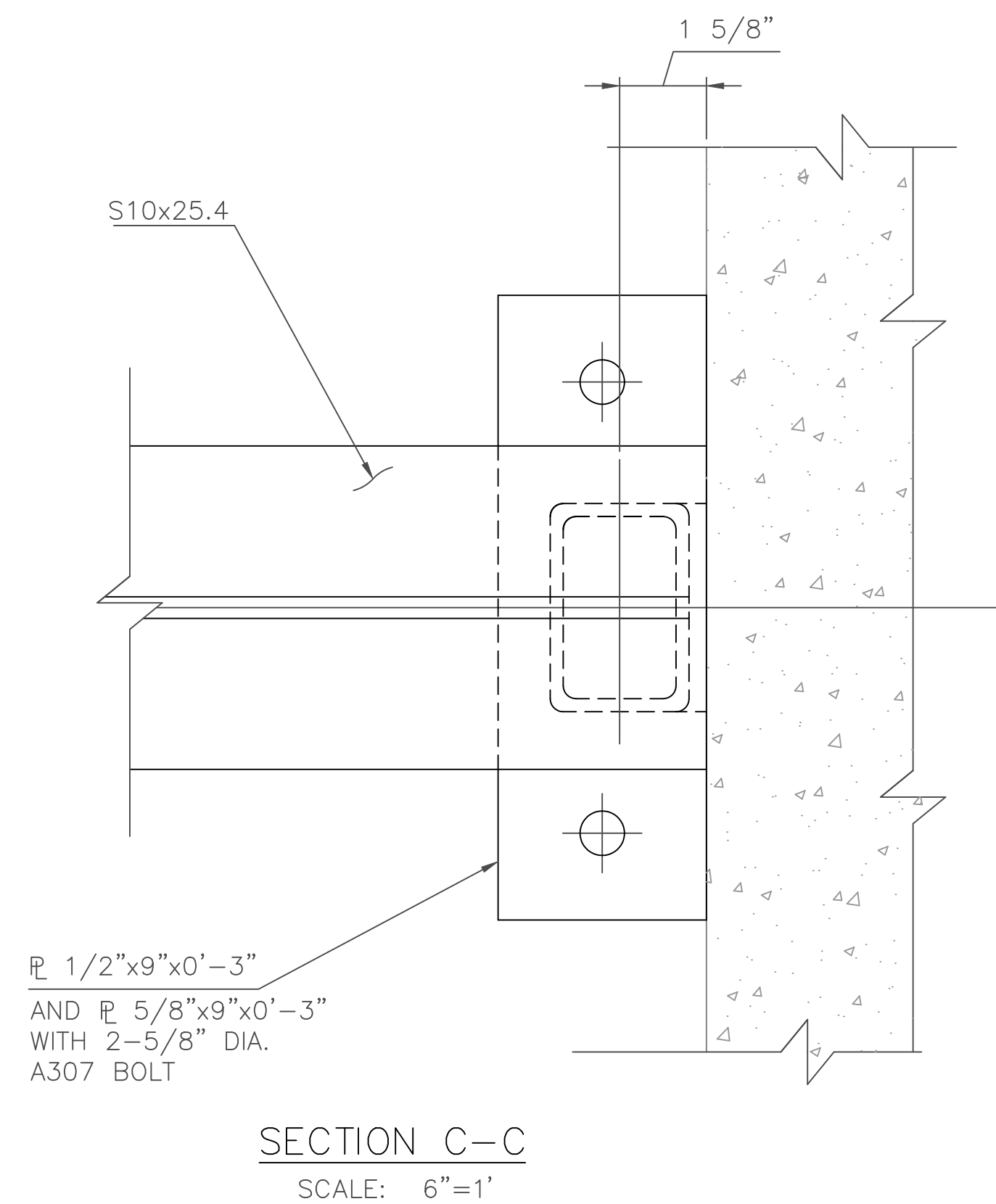
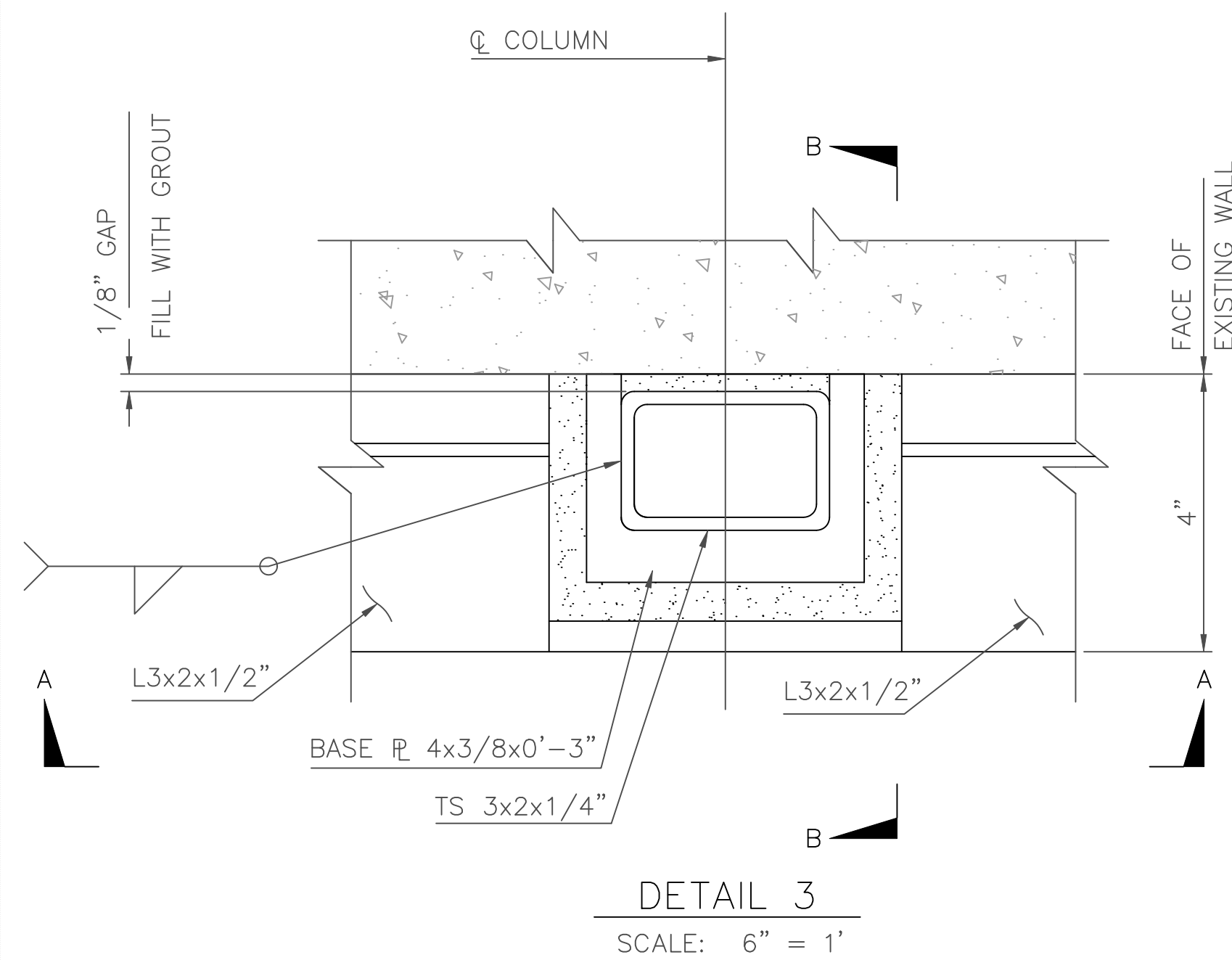
PROJECT ENG. RRP
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PROJECT MGR. PH

DIVISION CHIEF

DATE _____
FILE _____



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REVISIONS			



PS-S-7

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

REHABILITATION OF
EASTERN AVENUE PUMPING STATION

EASTERN AVENUE PUMP STATION
CRANE FRAMING SUPPORT AND
DETAILS

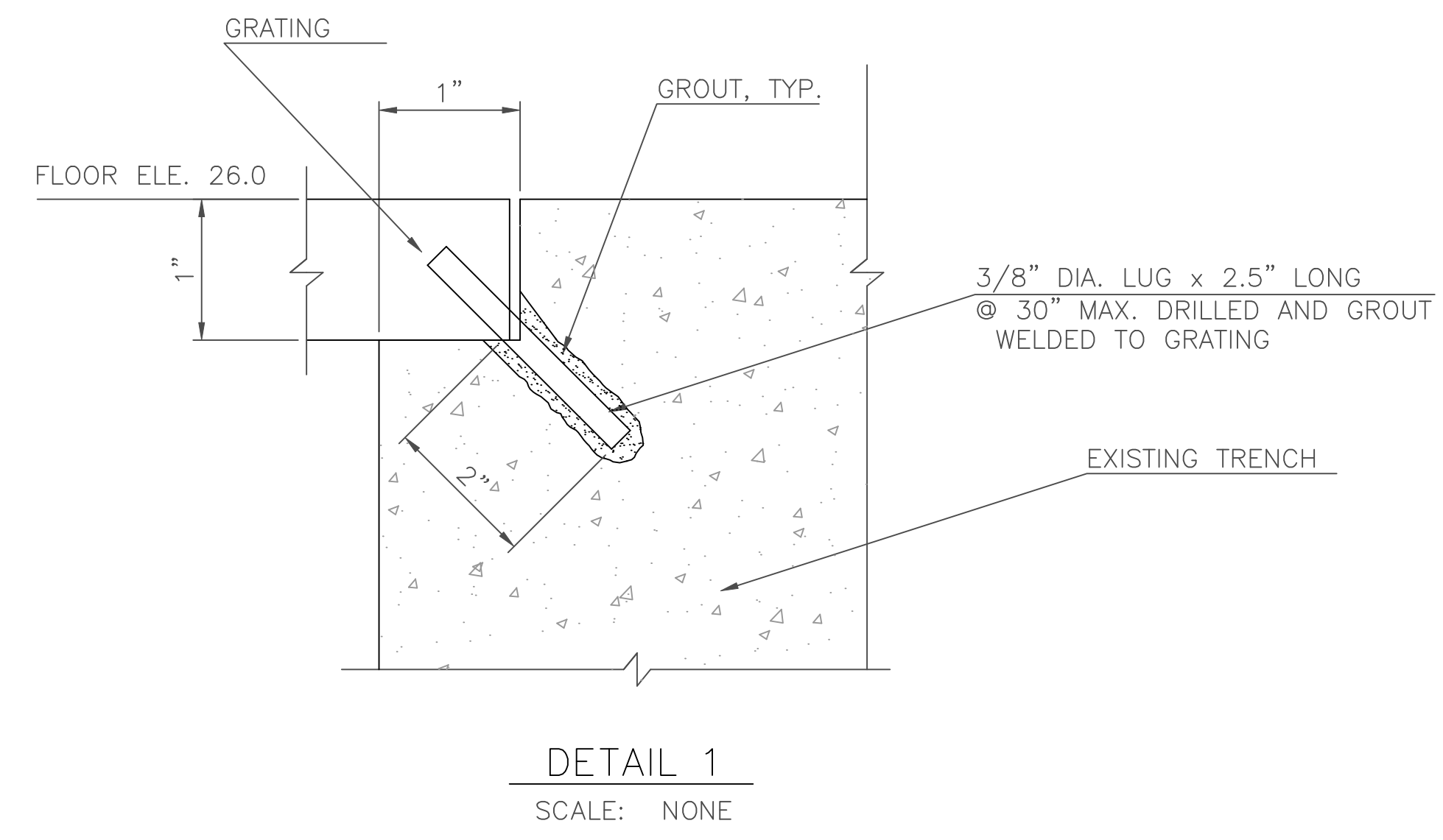
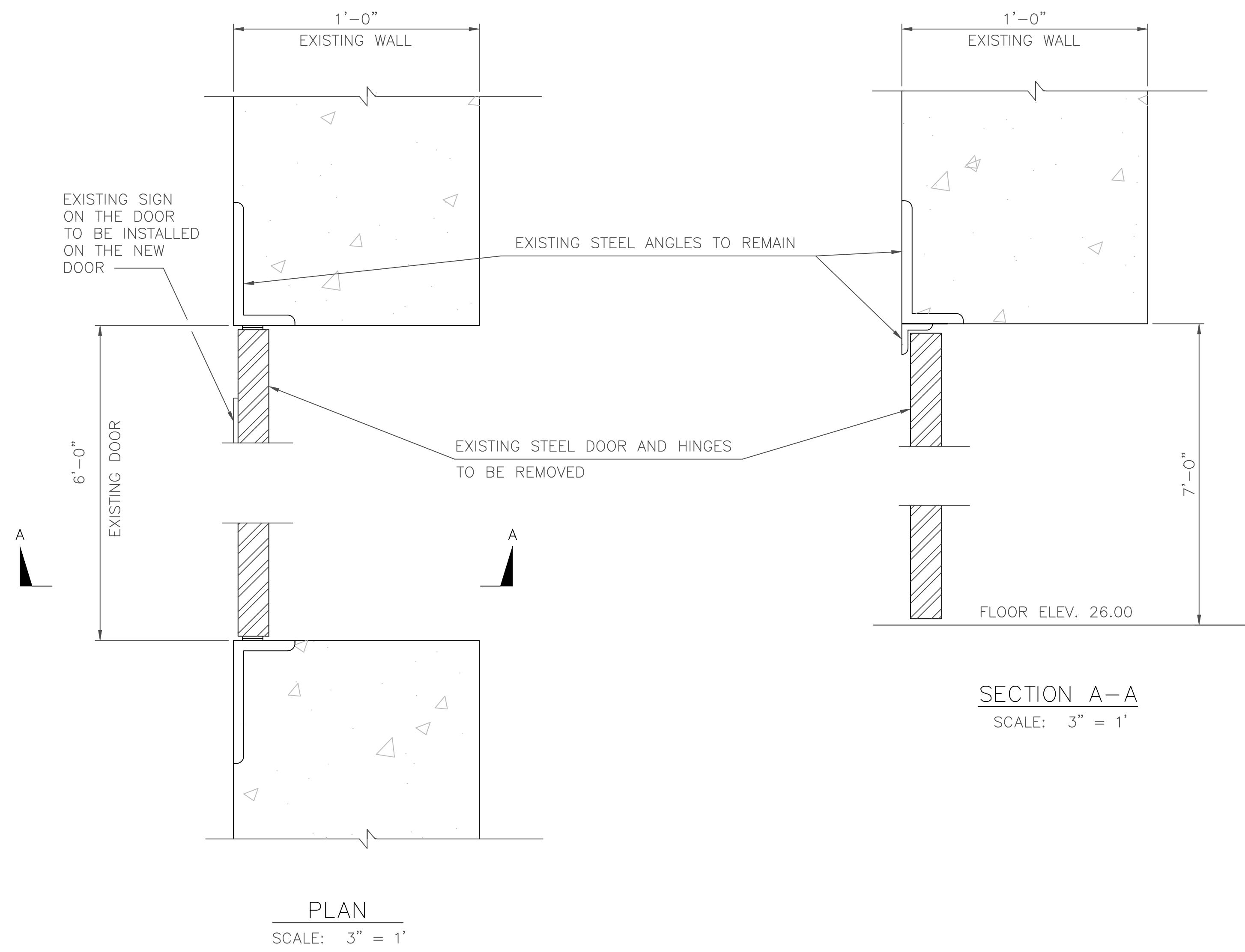
PROJECT ENG. RRP
DESIGNED BY RRP
CHECKED BY PH
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PROJECT MGR. PH

DIVISION CHIEF

DATE _____
FILE _____



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



DEMOLITION EXISTING STEEL DOOR

NOTES:

1. REMOVE AND REPLACE STEEL DOOR
 - a. REMOVE EXISTING STEEL DOOR AND CLEAN THOROUGHLY EXISTING FRAME ANGLES EMBEDDED INTO CONCRETE WALL AND HEADER.
 - b. REMOVE EXISTING HINGES ATTACHED TO THE EMBEDDED FRAMED ANGLES.
 - c. WELD THREE NEW HEAVY HINGES AT NEW LOCATION CLOSED TO THE EXISTING HINGE LOCATIONS IN ACCORDANCE WITH SPECIFICATIONS AND APPLICABLE CODE REQUIREMENTS.
 - d. INSTALL ALL DOOR HARDWARE COMPLYING WITH SPECIFICATION AND MANUFACTURERS WRITTEN SPECIFICATION.
 - e. PAINT NEW DOOR AND EXISTING STEEL ANGLES PER SPECIFICATION.

PS-S-8

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

REHABILITATION OF
EASTERN AVENUE PUMPING STATION

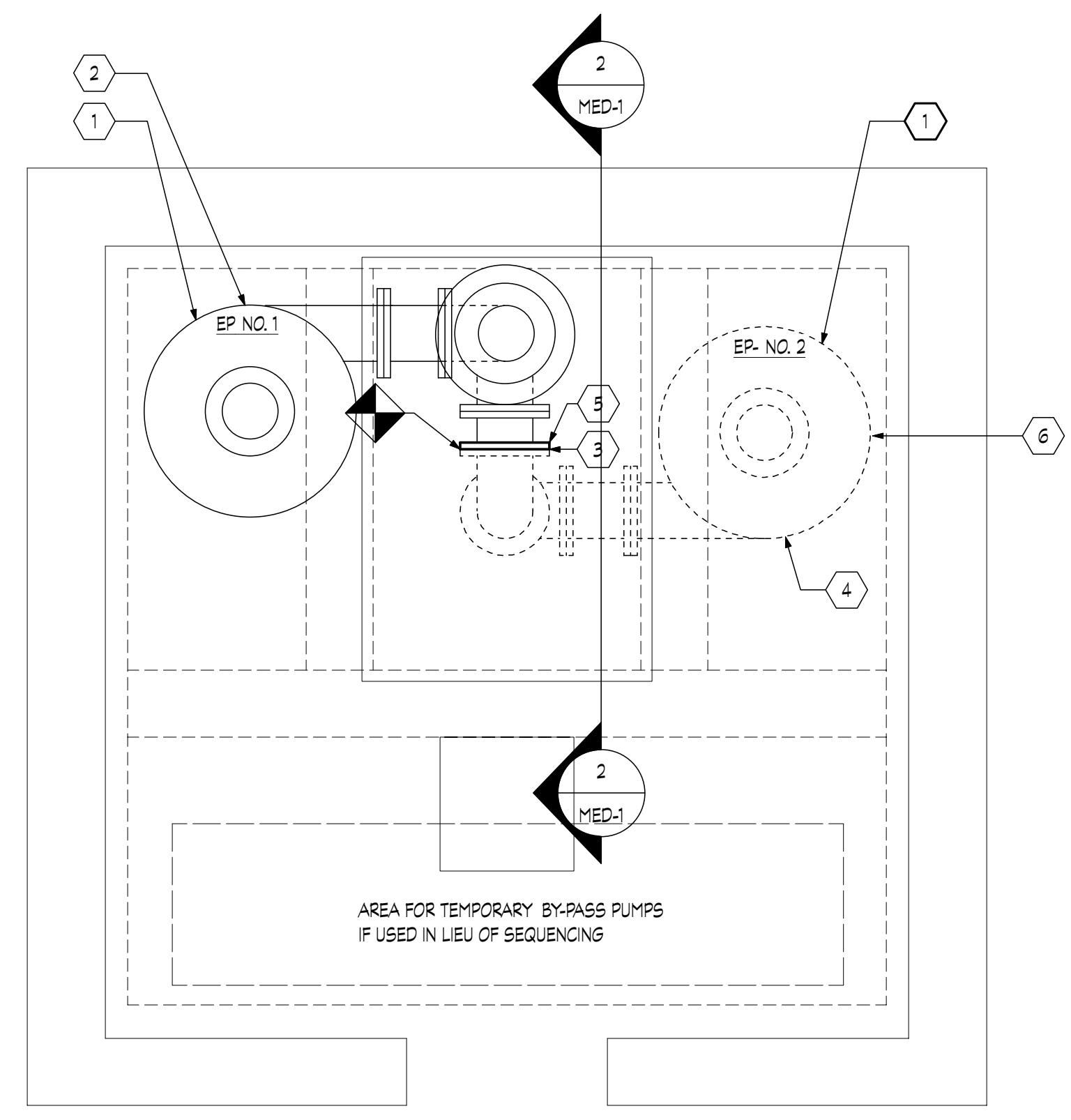
EASTERN AVENUE PUMP STATION
REMOVAL AND REPLACEMENT OF
EXISTING DOOR AND MISC. DETAILS

PROJECT ENG. RRP
DESIGNED BY RRP
CHECKED BY PH
DRAWN BY VM
PROJECT MGR. PH
DIVISION CHIEF
DATE _____
FILE _____

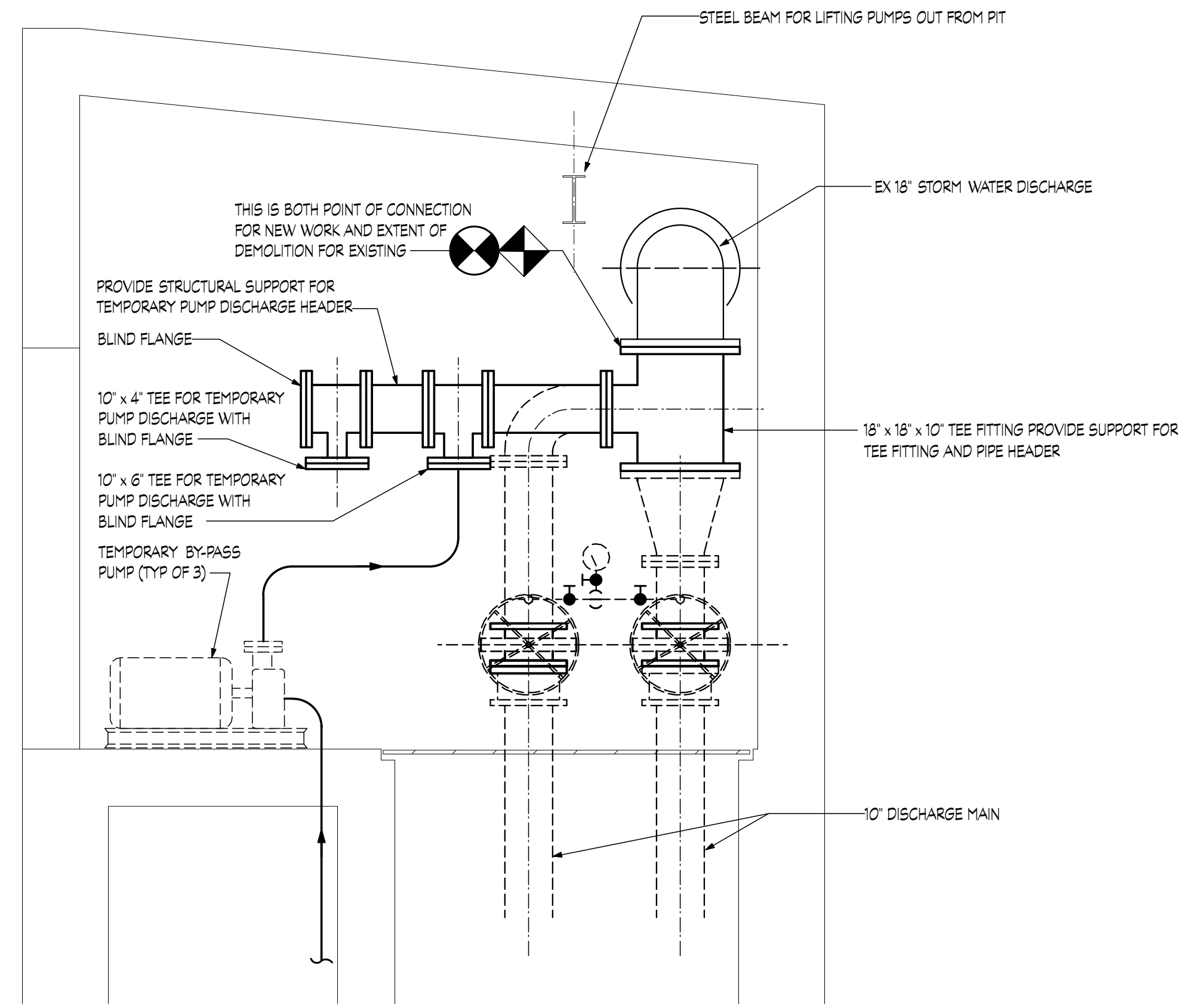


NO.	DESCRIPTION	NAME	DATE

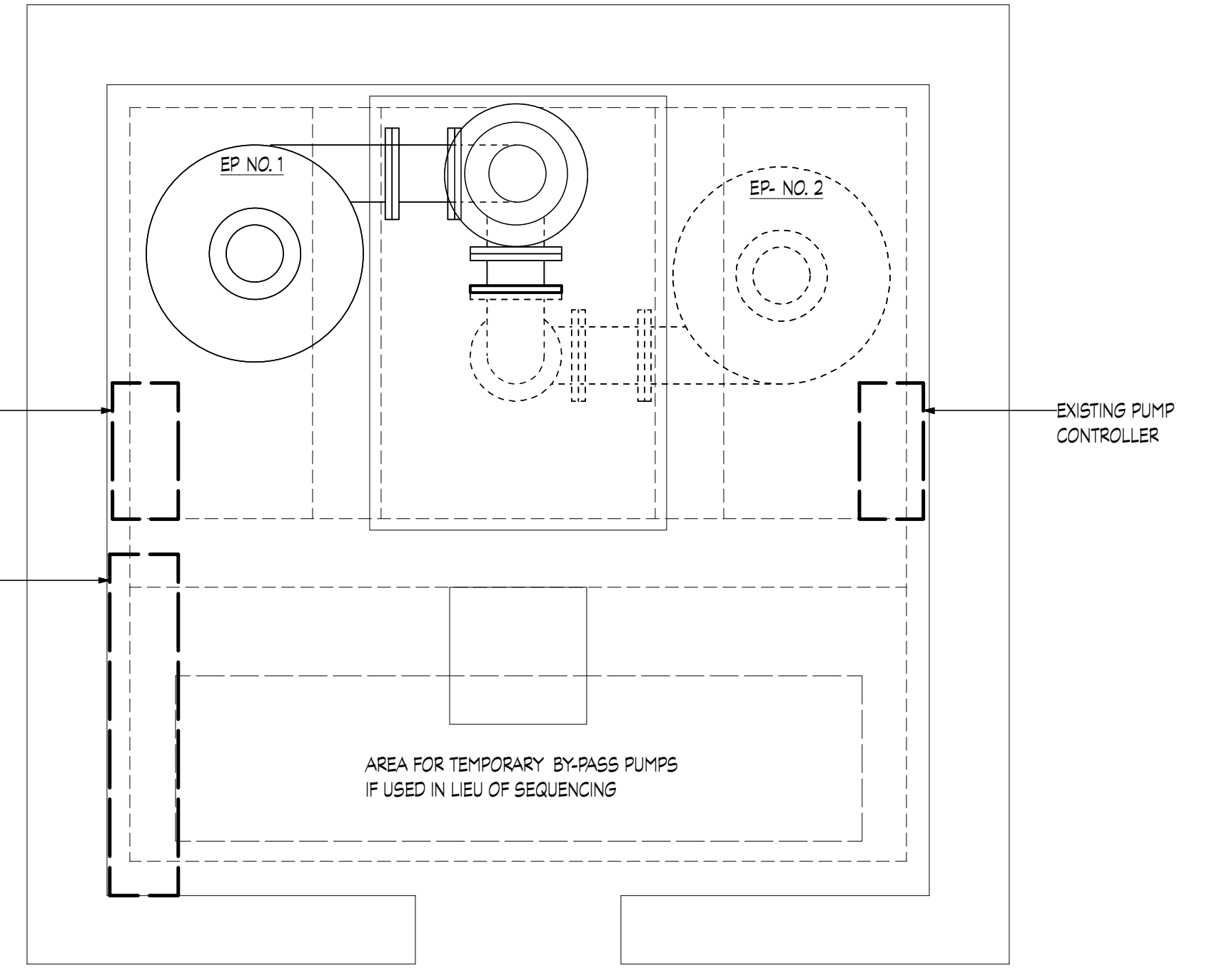
REVISIONS



1 MECHANICAL DEMOLITION FLOOR PLAN
SCALE 1/2" = 1'-0"



2 TEMPORARY PUMPING INSTALLATION DETAIL
SCALE 1/2" = 1'-0"



3 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE 1/2" = 1'-0"

MECHANICAL CONSTRUCTION & DEMOLITION STAGING NOTES

1. THE DEMOLITION OF THE PUMPS, THEIR RESPECTIVE STARTERS, LEVEL CONTROLLERS, AND EXISTING SERVICE SHALL BE STAGED TO ALLOW THE NON-INTERRUPTION FOR PUMPING SERVICE. THIS PUMPING STATION SHALL REMAIN IN SERVICE DURING THE ENTIRE CONSTRUCTION PERIOD. DURING THE INSTALLATION OF THE NEW PUMPS, ONE OF THE EXISTING PUMPS SHALL REMAIN WITH UNINTERRUPTIVE CONNECTION TO THE EXISTING SUCTION & DISCHARGE VALVING & PIPING.
2. AS AN EXAMPLE OF THE INSTALLATION OF THE NEW PUMPS, THE EXISTING PUMP NO.1 (EP NO. 1) STARTERS AND CONTROLLERS AND MOTOR SHALL REMAIN IN SERVICE WHILE EXISTING PUMP NO.2 (EP NO. 2) IS REMOVED.
3. DEMOLISH SUCTION AND DISCHARGE PIPING FROM (EP NO.2) TO A POINT INDICATED ON SHEET M1-1
4. DISCHARGE AND SUCTION PIPING, VALVING INCLUDING SUPPORTS AND THRUST BLOCKS SHALL BE REMOVED AND DRY-PIT PREPARED FOR INSTALLATION OF NEW PUMP NO. 2.
5. THE TEE FITTING WHERE (EP NO.2) CONNECTS TO EXISTING DISCHARGE RISER SHALL HAVE A BLIND FLANGE INSTALLED SO THAT (EP NO.1) MAY REMAIN IN SERVICE AND OPERATIONAL.
6. POWER WIRING, STARTERS, PUMP CONTROLLERS AND WATER LEVEL CONTROLLERS FOR (EP NO.2) SHALL BE REMOVED.

MECHANICAL BY-PASS PUMPING NOTE

1. BY-PASS PUMPING SHALL BE USED IN LIEU OF SEQUENCED PUMP REPLACEMENT AS SHOWN ON (1/MED-1) & (3/MED-3) ON THIS DRAWING. POWER SHALL BE EXTENDED FROM NEW SERVICE PANEL.

ELECTRICAL CONSTRUCTION & DEMOLITION STAGING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP MINIMUM ONE PUMP (EXISTING OR NEW) DURING CONSTRUCTION. FOLLOW SEQUENCE OF CONSTRUCTION. PROVIDE CONCRETE PAD AND GROUNDING RING FOR PEPCO XFMR.
- THIS PUMPING STATION SHALL REMAIN IN SERVICE DURING THE ENTIRE CONSTRUCTION PERIOD. DURING THE INSTALLATION OF THE NEW PUMPS, ONE OF THE EXISTING PUMPS SHALL REMAIN WITH UNINTERRUPTIVE CONNECTION TO THE EXISTING ELECTRICAL SERVICE & THE PUMPS CONTROLLERS.
2. PROVIDE NEW SERVICE. REFER TO DRAWING E-1.
3. AS AN EXAMPLE OF THE INSTALLATION OF THE NEW PUMPS, THE EXISTING PUMP NO.1 (EP-NO. 1) STARTERS, CONTROLLERS, AND MOTOR SHALL REMAIN IN SERVICE WHILE EXISTING PUMP NO.2 (EP-NO. 2) IS REMOVED.
 - A. TAKE PUMP (EP NO.2) OUT OF SERVICE
 - B. REMOVE EXISTING FEEDER TO CONTROLLER & PUMP
 - C. SET NEW CONTROLLER & STARTER & RUN NEW POWER TO NEW PUMP NO. 2. FROM PANEL 'RP'
 - D. ENERGIZE & TEST NEW PUMP NO.2
 - E. REPEAT ABOVE SEQUENCE FOR PUMP NO. 1.
4. EXTEND EXISTING LIGHTING AND RECEPTACLE CIRCUITS TO NEW PANEL 'RP' AFTER DISCONNECTING THE CIRCUITS FROM EXISTING PANEL(S).
5. COORDINATE WITH PEPCO TO REMOVE EXISTING 208V SERVICE. DEMO EXISTING PANELBOARD. KEEP CONTINUITY OF EXISTING CIRCUITS BY EXTENDING THOSE CIRCUITS TO NEW PANEL 'RP'.

GENERAL DEMOLITION NOTE

1. CONTRACTOR SHALL REMOVE EXISTING PUMPS, MOTORS, & CONTROLLERS, PLACE IN SAFE STORAGE AND TURN OVER TO WAGA FOR THEIR USE.

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**REHABILITATION OF
EASTERN AVENUE PUMPING STATION**

**MECHANICAL AND ELECTRICAL
DEMOLITION PLANS**

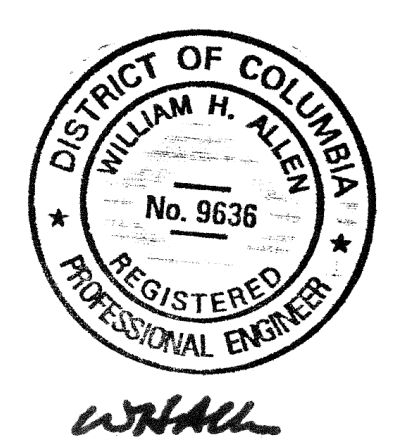
MED-1

PROJECT ENG. RH
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PROJECT MGR. DG

DIVISION CHIEF

DATE: March 31, 2009

FILE: _____

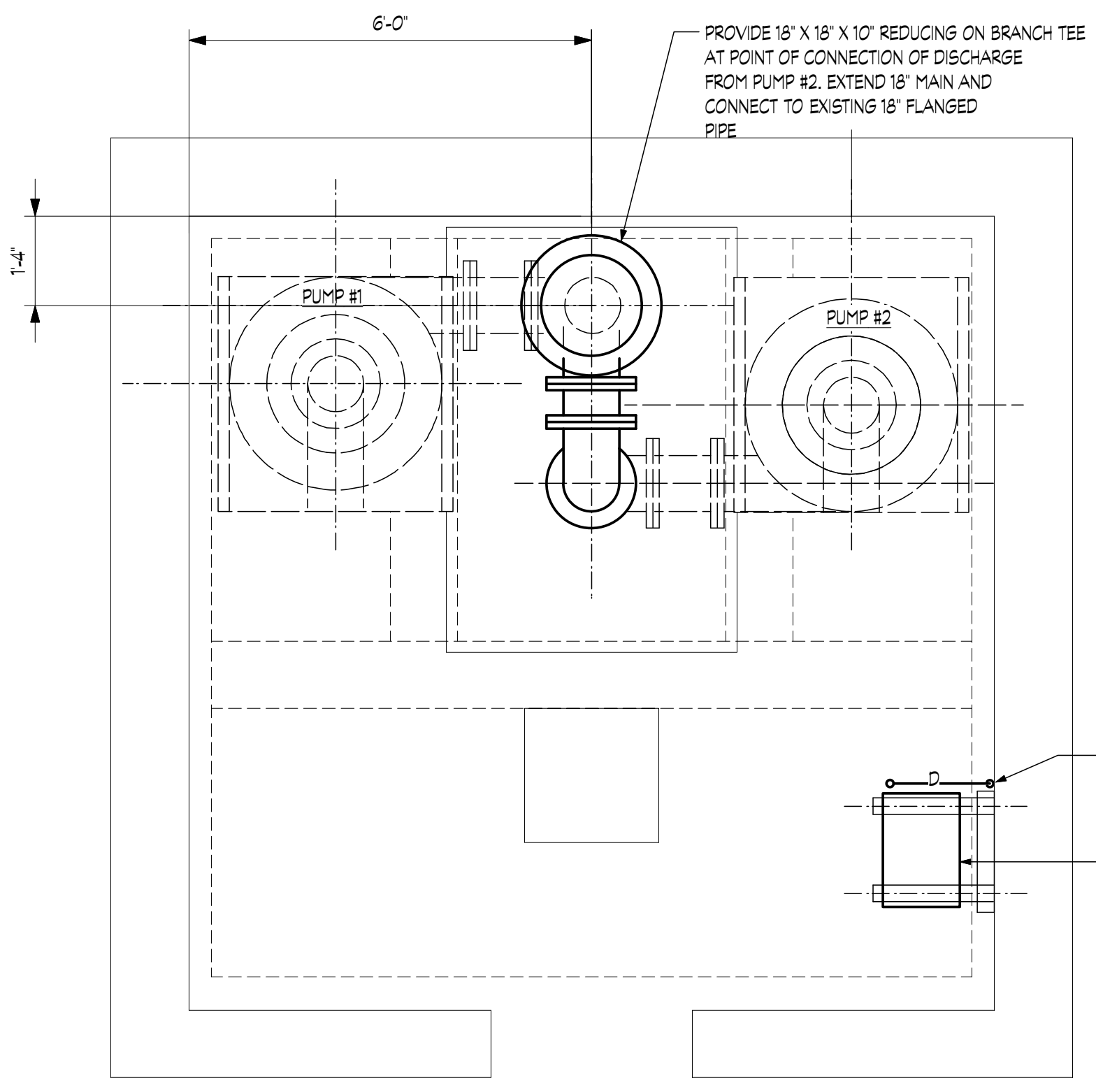


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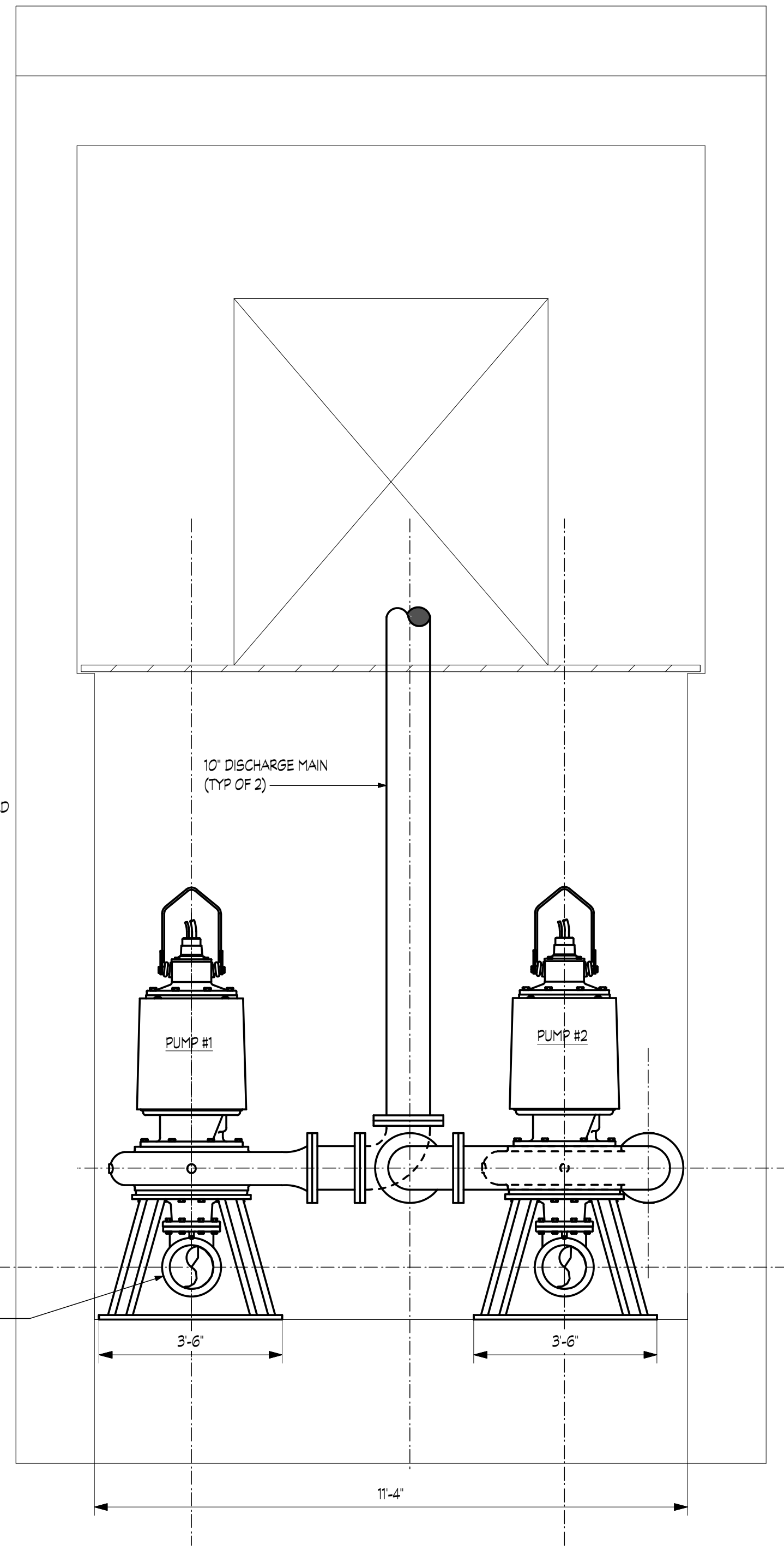
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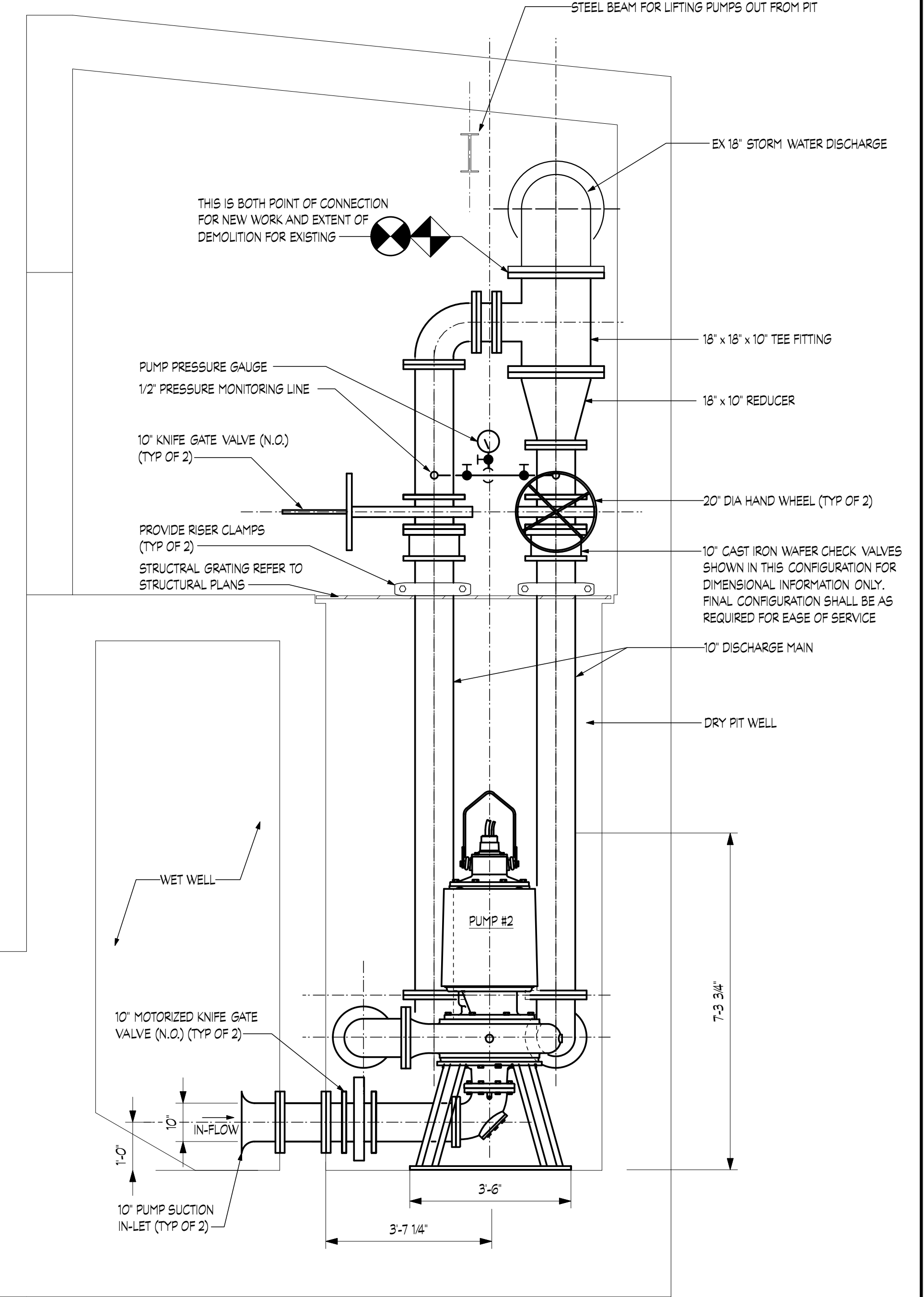
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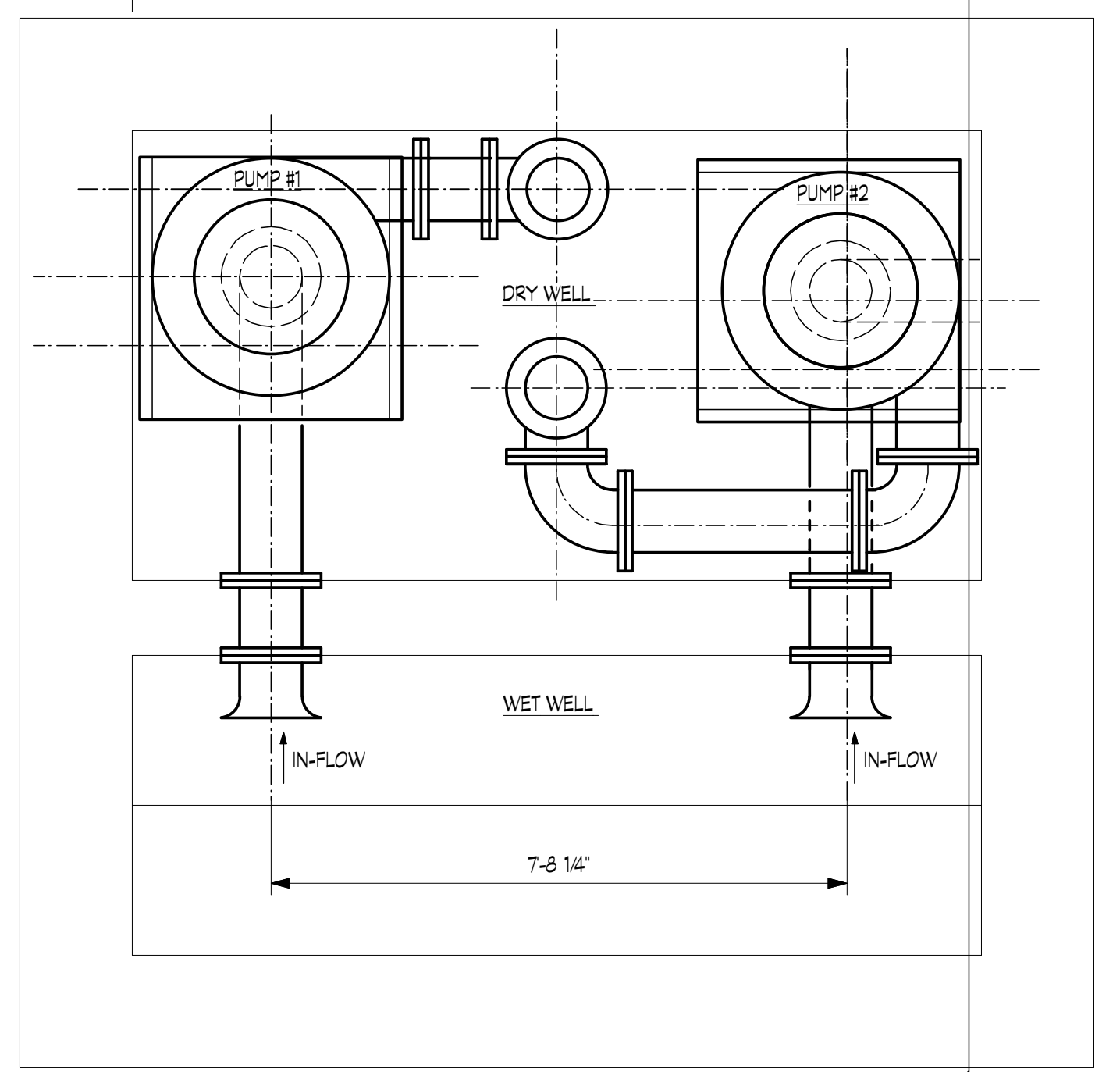
1 FLOOR PLAN
SCALE 1/2" = 1'-0"



AA ELEVATION A-A
SCALE 1/2" = 1'-0"



BB SECTION B-B
SCALE 1/2" = 1'-0"



2 SUMP & PUMP CHAMBER
SCALE 1/2" = 1'-0"

PUMP SCHEDULE								
SYMBOL	DESCRIPTION	LOCATION	BASIS OF DESIGN	GPM	FT OF HD	HP	RPM	NOTES
PUMP #1	DRY-PIT SUBMERSIBLE SUMP PUMP PACKAGE	DRY-WELL	FAIRBANKS MORSE PUMPS MODEL 5435WD DRY-PIT	4,000	30 TDH	40	705	1 THRU 4
PUMP #1	DRY-PIT SUBMERSIBLE SUMP PUMP PACKAGE	DRY-WELL	FAIRBANKS MORSE PUMPS MODEL 5435WD DRY-PIT	4,000	30 TDH	40	705	1 THRU 4

- NOTES:
- REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
 - FOR ADDITIONAL INFORMATION REFER TO PLANS, ELEVATIONS AND SECTIONS ABOVE
 - REFER TO STRUCTURAL PLANS FOR FRAMING AND ACCESS PLATES
 - PROVIDE BEAM TROLLEY SIMILAR TO DAYTON UNIVERSAL BEAM TROLLEYS MODEL 22617 ABLE TO LIFT 3600 LBS. PUMP FOR SERVICE
 - PROVIDE CM1 SERIES 622 MANUAL CHAIN HOISTS ABLE TO LIFT 3600 LBS.

Allen & Shariff
ENGINEERING

7061 Deepage Drive
Columbia, MD 21045
410.381.7100
www.AllenShariff.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

**D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION**

**REHABILITATION OF
EASTERN AVENUE PUMPING STATION**

PROJECT ENG. RH
DESIGNED BY DG
CHECKED BY RH
DRAWN BY DG
PROJECT MGR. DG

DIVISION CHIEF

**MECHANICAL AND PLUMBING
PLANS AND ELEVATIONS**

MP-1

DATE: March 31, 2009
FILE:

SFILES SCATES SPLTDKVVSS SPENTBLSS

ELECTRICAL ABBREVIATIONS	
A	AMPS OR AMPERES
ABV	ABOVE
AF	AMPERES FRAME
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EM	EMERGENCY
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
G, GRD	GROUND
GEN	GENERATOR
HP	HORSEPOWER
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MIN	MINIMUM
N	NEUTRAL
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NFSS	NON-FUSED SAFETY SWITCH
NO.; #	NUMBER
P	PUMP, POLES
PH; Ø	PHASE
SWBD	SWITCHBOARD
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT AMPERE
W	WATT(S); WIRE
W	WITH
W/O	WITHOUT
WH	WATER HEATER
XFMR	TRANSFORMER

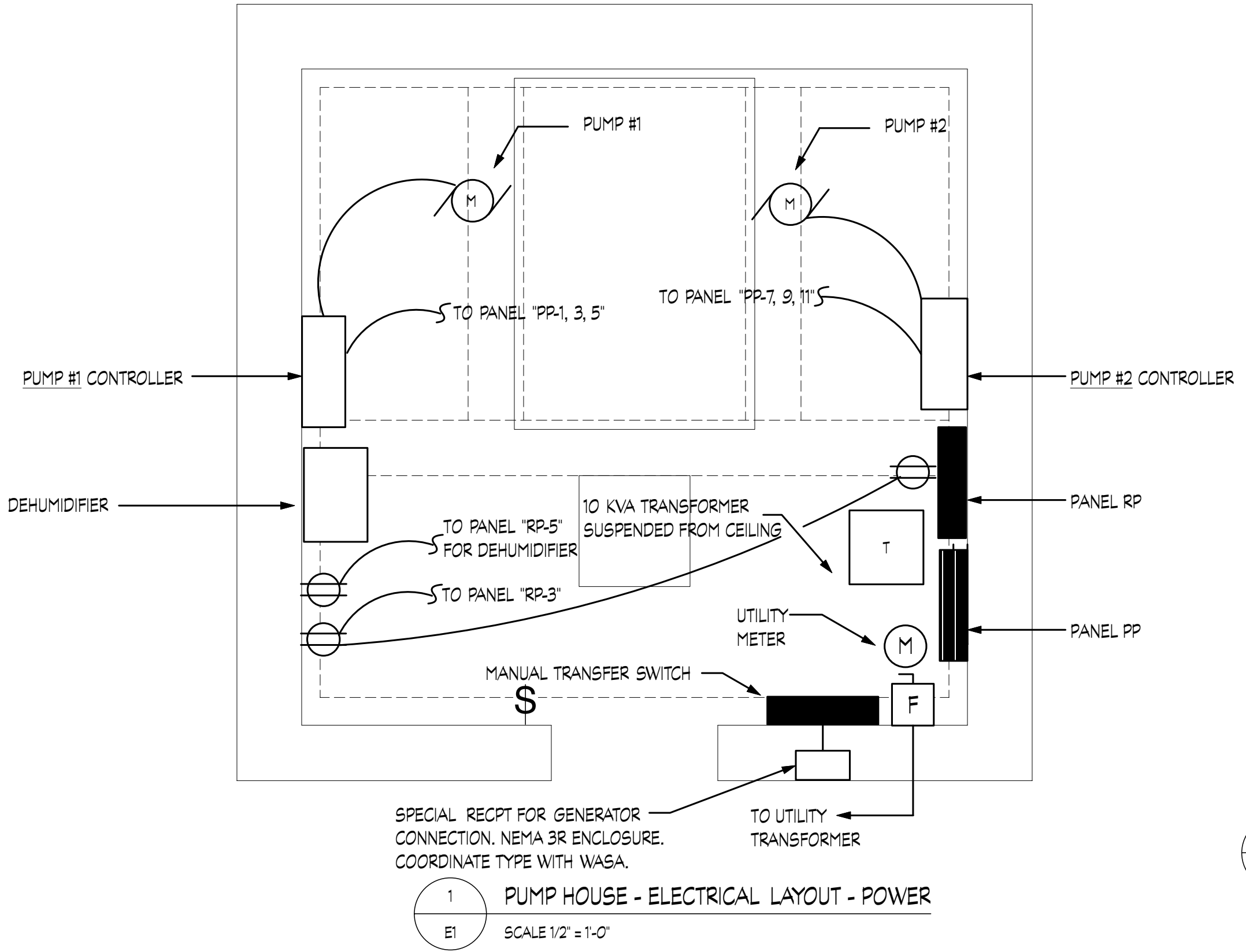
ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 20AMP, NEMA 5-20R. MOUNT +18" AFF UNO.
	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI), 20AMP RATED. MOUNT +6" ABOVE COUNTER OR BACKSPASH.
	DOUBLE DUPLEX RECEPTACLE (QUAD). PROVIDE TWO (2) 20AMP, NEMA 5-20R IN A COMMON BACKBOX. MOUNT +18" AFF.
	JUNCTION BOX
	BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS. NUMBER OF SLASHES INDICATES NUMBER OF CONDUCTORS IF MORE THAN 2#12, 1#12G - 3#4" CONDUIT MINIMUM.
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT OR FEEDER INSTALLED IN CONCRETE SLAB OR INSTALLED BELOW GRADE.
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	ELECTRICAL PANELBOARD, SURFACE OR RECESSED MOUNTED 20BY120V.
	ELECTRICAL PANELBOARD SURFACE MOUNTED 480Y277V OR AS INDICATED.
	DRY-TYPE TRANSFORMER ON 4" CONCRETE HOUSEKEEPING PAD.
	MANUAL TRANSFER SWITCH. SEE DRAWING FOR TYPE AND RATING REQUIRED.
	MOTOR CONNECTION
	COMBINATION FULL VOLTAGE NON-REVERSING (FVNR) MAGNETIC MOTOR STARTER/DISCONNECT SWITCH. RATED FOR MOTOR HORSEPOWER.
	UTILITY OR SUB-METER SYMBOL.

\$FILES \$DATES \$PLTDVSS \$PENTBLS\$

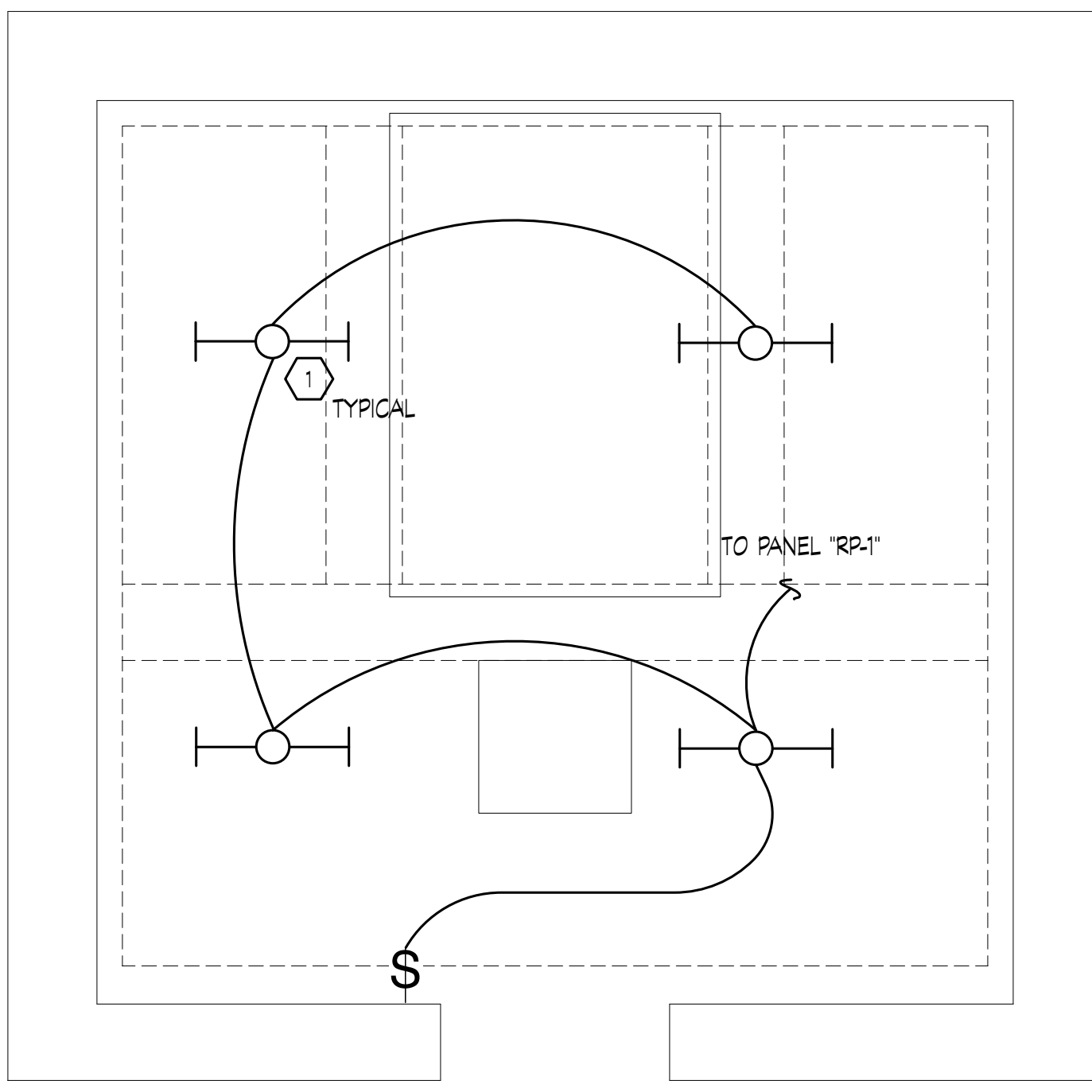
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REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
REHABILITATION OF EASTERN AVENUE PUMPING STATION	PROJECT ENG. RH _____ DESIGNED BY DG _____ CHECKED BY RH _____ DRAWN BY DG _____ PROJECT MGR. DG _____
ELECTRICAL DATA SHEET	E-0 DIVISION CHIEF DATE March 31, 2009 FILE _____



1 PUMP HOUSE - ELECTRICAL LAYOUT - POWER
SCALE 1/2" = 1'-0"



3 PUMP HOUSE - ELECTRICAL LAYOUT - LIGHTING
SCALE 1/2" = 1'-0"

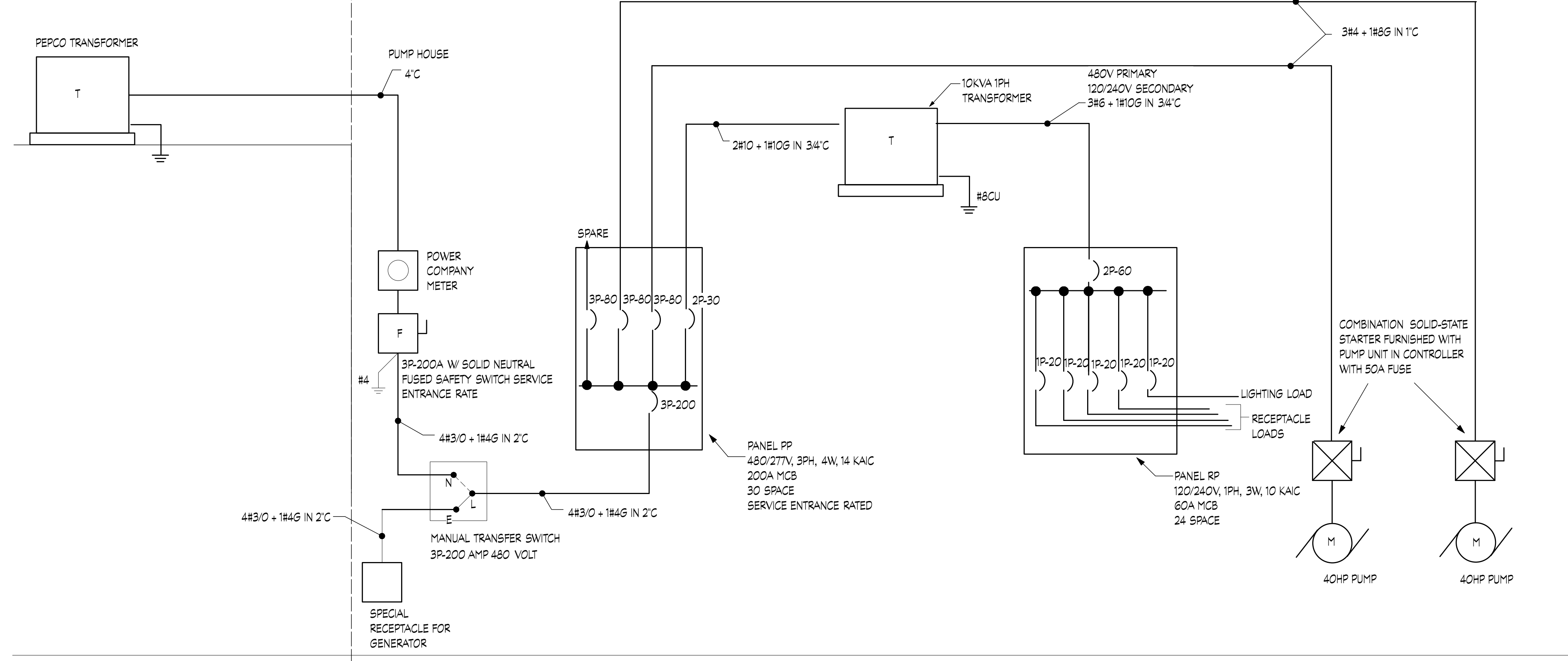
DRAWING NOTES
1. FLUORESCENT, 120V, 32W, 2 LAMP, 48" INDUSTRIAL TYPE LIGHT FIXTURE WITH ENCLOSED STEEL HOUSING. LITHONIA FIXTURE - MODEL # DMS-2-32-120.

PANEL RP												
1 PHASE 120/240 VOLT 3 WIRE 60 AMP MCB												
CKT	FOR	CKT BKR			LOAD			CKT	FOR	TYPE SURFACE MIN KAIC		
		P	AMP	VOLT	KVA	Ø	KVA			P	AMP	VOLT
1	PUMP ROOM LIGHTING	1	20	120	0.3	a		2	SPARE	1	20	120
3	RECEPTACLE	1	20	120	0.4	b		4	SPARE	1	20	120
5	DEHUMIDIFIER RECEPTACLE	1	20	120	0.2	a		6	SPARE	1	20	120
7	SPARE	1	20	120		b		8	SPARE	1	20	120
9	SPARE	1	20	120		a		10	SPARE	1	20	120
11	SPARE	1	20	120		b		12	SPARE	1	20	120
13	SPARE	1	-	-		a		14	SPARE	1	-	-
15	SPARE	1	-	-		b		16	SPARE	1	-	-
17	SPARE	1	-	-		a		18	SPARE	1	-	-
19	SPARE	1	-	-		b		20	SPARE	1	-	-
21	SPARE	1	-	-		a		22	SPARE	1	-	-
23	SPARE	1	-	-		b		24	SPARE	1	-	-

0.7 = TOTAL PANEL CONNECTED LOAD

PANEL PP												
3 PHASE 480Y/277 VOLT 4 WIRE 200 AMP MCB												
CKT	FOR	CKT BKR			LOAD			CKT	FOR	TYPE SURFACE MIN KAIC		
		P	AMP	VOLT	KVA	Ø	KVA			P	AMP	VOLT
1	40HP PUMP	3	80	480	13.0	a	1.0	2	TRANSF	2	30	480
3	-	-	-	-	13.0	b	1.0	4	-	-	-	-
5	-	-	-	-	13.0	c		6	SPARE	1	20	277
7	40HP PUMP	3	80	480	-	a		8	SPARE	1	20	277
9	-	-	-	-	-	b		10	SPARE	1	20	277
11	-	-	-	-	-	c		12	SPARE	1	20	277
13	SPARE	3	80	480	-	a		14	SPARE	1	-	-
15	-	1	-	-	-	b		16	SPARE	1	-	-
17	-	1	-	-	-	c		18	SPARE	1	-	-
19	SPARE	1	-	-	-	a		20	SPARE	1	-	-
21	SPARE	1	-	-	-	b		22	SPARE	1	-	-
23	SPARE	1	-	-	-	c		24	SPARE	1	-	-
25	SPARE	1	-	-	-	a		26	SPARE	1	-	-
27	SPARE	1	-	-	-	b		28	SPARE	1	-	-
29	SPARE	1	-	-	-	c		30	SPARE	1	-	-

41.0 = TOTAL PANEL CONNECTED LOAD



2 ELECTRICAL ONE LINE DIAGRAM
NO SCALE

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

REHABILITATION OF
EASTERN AVENUE PUMPING STATION

ELECTRICAL POWER
PLANS AND RISER

E-1

PROJECT ENG. RH
DESIGNED BY DG
CHECKED BY RH
DRAWN BY DG
PROJECT MGR. DG

DIVISION CHIEF

DATE March 31, 2009

FILE

Allen & Shariff
ENGINEERING

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Columbia, MD 21045
410.381.7100
www.AllenShariff.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

SFILES SCATES SPLTRDVS\$ SPENBLS\$