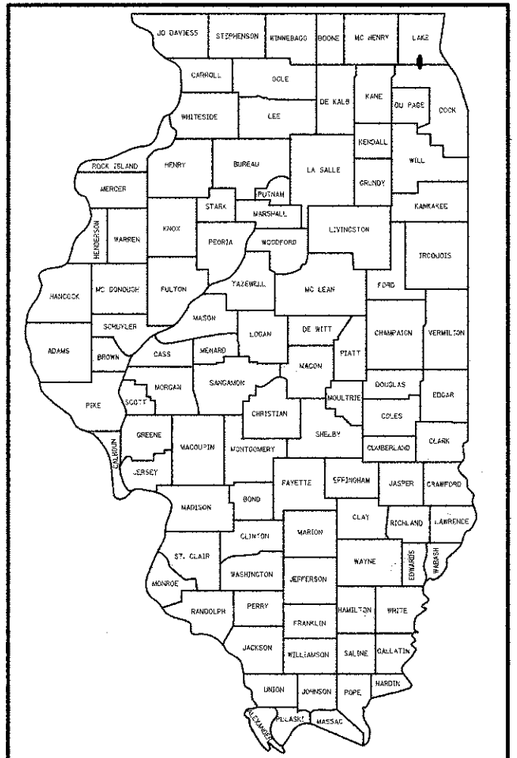
11-9-12 LETTING ITEM 002

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	1
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 63713		

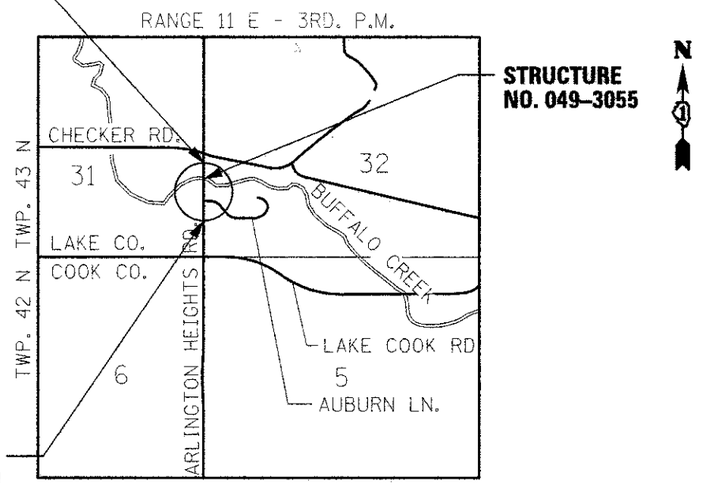
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

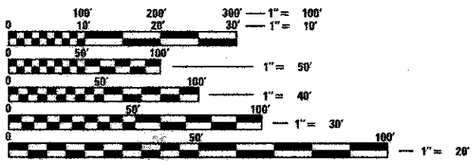
F.A.U. ROUTE 2626 (ARLINGTON HEIGHTS ROAD)
S/B BRIDGE OVER BUFFALO CREEK
BRIDGE DECK REPLACEMENT
SECTION 10-00193-07-BR
PROJECT BHM-9003(706)
LAKE COUNTY
JOB C-91-760-10



LOCATION OF SECTION INDICATED THUS:-



VERNON TOWNSHIP
MAP SCALE: NTS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF STANDARDS, SEE SHEET NO. 2

DESIGN DESIGNATION: MINOR ARTERIAL

TRAFFIC DATA
2006 ADT: 32,050
POSTED SPEED LIMIT: 45 MPH

CONTRACT NO. 63713

TOWNSHIP: VERNON
MUNICIPALITY: BUFFALO GROVE

amec

NET AND GROSS LENGTH = 501.07 FT. = 0.09 MILE

TIMOTHY CHIN
062-056204
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Timothy Chin
EXPIRATION DATE: 11/30/2013
DATE: August 7, 2012
DRAWING NO.: ALL EXCEPT 12-27

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED August 7th 20 12
Paula Trigg
LAKE COUNTY DIVISION OF TRANSPORTATION,
ACTING DIRECTOR OF TRANSPORTATION/ACTING COUNTY ENGINEER

PASSED August 29 20 12
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW August 29 20 12
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

INDEX OF SHEETS

LIST OF STANDARDS

NUMBER	STATE STANDARD
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATES FOR BRIDGES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
631011-08	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-10	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

NOTE: "THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC, AS-BUILT OR OTHER EXISTING DOCUMENTS AND OWNER OF RECORD PLANS MUST CONTACT THE COUNTY TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION."

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS. THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM MANUAL TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS & RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2012; SPECIAL PROVISIONS AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAIN IN THESE PLANS.

2. BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE & GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

3. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES; IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LAKE COUNTY DIVISION OF TRANSPORTATION, THE VILLAGE OF BUFFALO GROVE, AND THE LAKE COUNTY FOREST PRESERVE DISTRICT.

5. ALL WORK SHALL BE COMPLETED WITHIN THE LIMITS OF THE PROJECT SHOWN. NO EQUIPMENT, MATERIALS OR A YARD OR FIELD OFFICE SHALL BE SET UP OR STORED ON COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE COUNTY OR THE PROPERTY OWNER.

6. ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING OR SODDING SHALL BE CONSTRUCTED TO 4 IN BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.

7. PAVEMENT ELEVATIONS: THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES FOR THE PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

8. PROTECTION OF AND RESTORATION OF TRAFFIC SIGNS: PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL PROVIDE A SIGN LOG OF ALL EXISTING SIGNS WITHIN THE LIMITS OF THE CONSTRUCTION ZONE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE SIGN LOG THROUGHOUT THE DURATION OF THIS PROJECT. THIS WORK IS CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. ALL EXISTING TRAFFIC SIGNS SHALL MAINTAIN, FURNISH, AND REPLACE AT HIS EXPENSE, ANY TRAFFIC SIGN OR POST WHICH HAS BEEN DAMAGED OR LOST BY THE CONTRACTOR.

9. TRAFFIC CONTROL DEVICES: ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ON THE PLANS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT.

10. DURING CONSTRUCTION OPERATIONS ANY CONSTRUCTION DEBRIS DEPOSITED IN THE FLOW LINE DRAINAGE STRUCTURE SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS. ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO INSURE THAT THEY ARE FREE FROM ALL DIRT AND CONSTRUCTION DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

11. RIM ELEVATION AND OFFSET OF DRAINAGE STRUCTURES ARE MEASURED TO EDGE OF PAVEMENT.

12. THE WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURBS, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR "CRC" PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

13. UTILITIES CONTACTS:

J.U.L.I.E.
JOINT UTILITY LOCATION FOR EXCAVATORS
(800) 892-0123 OR 811

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196
GEORGE GUDERLEY
AREA PERMIT COORDINATOR
(847) 705-4131

NICOR GAS
1844 FERRY ROAD
NAPERVILLE, IL 60563
CONSTANCE LANCE
(630) 388-3830
CLANE@NICOR.COM

LAKE COUNTY FOREST PRESERVE DISTRICT
1899 WEST WINCHESTER ROAD
LIBERTYVILLE, IL 60046
JOHN NELSON
DISTRICT ENGINEER
(847) 968-3407

LAKE COUNTY DEPT OF PUBLIC WORKS
650 W. WINCHESTER ROAD
LIBERTYVILLE, IL 60048
GORDON WHITE
(847) 377-7135

LAKE COUNTY DIVISION OF TRANSPORTATION
600 W. WINCHESTER RD
LIBERTYVILLE, IL 60048
JON NELSON
ENGINEER OF TRAFFIC
(847) 377-7400

COMED
1500 FRANKLIN BOULEVARD
LIBERTYVILLE, IL 60048
ATTENTION: TERRI BLECK
(847) 816-5239
TERRI.BLECK@COMED.COM

COMCAST
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
(630) 600-6352
ROBERT SCHULTER JR
BOB_SCHULTER@CABLE.COMCAST.COM

VILLAGE OF BUFFALO GROVE
51 RAUPP BOULEVARD
BUFFALO GROVE, IL 60089
(847) 459-2547
GREG BOYSEN

AT&T
1000 COMMERCE DRIVE,
FLOOR 2
OAKBROOK, IL 60523
BRUCE BROWN
(630) 573-5715
BB2439@ATT.COM

FILE NAME = LC1143-sht-gencrotes.dgn	USER NAME = 3202111143	DESIGNED - TC	REVISED -
		DRAWN - LOM	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - PK	REVISED -
	PLOT DATE = 8/28/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, IDOT STANDARDS, AND GENERAL NOTES

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	2
		CONTRACT NO. 63713		
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALITY ITEMS	SPECIAL PROVISIONS	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0014	CONSTRUCTION TYPE CODE 0042	NON-PARTICIPATING
		20200100	EARTH EXCAVATION	CU YD	67	67		
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	34	34		
		20400800	FURNISHED EXCAVATION	CU YD	50	50		
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	592	592		
		25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25		
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	11	11		
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	11	11		
		25100630	EROSION CONTROL BLANKET	SQ YD	592	592		
		28000500	INLET AND PIPE PROTECTION	EACH	3	3		
		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	152	152		
		40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	41	41		
		40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	24	24		
		40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	88	88		
		42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	32	32		
		44000100	PAVEMENT REMOVAL	SQ YD	343	343		
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	701	701		
		44000600	SIDEWALK REMOVAL	SQ FT	258	258		
		50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
		50102400	CONCRETE REMOVAL	CU YD	14	14.2		
		50300225	CONCRETE STRUCTURES	CU YD	19	19.0		
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	115	115		
		50300300	PROTECTIVE COAT	SQ YD	268	268		
		50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,606	1,606		
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	26,380	26,380		
S		50900105	ALUMINUM RAILING, TYPE L	FOOT	86	86		
		51500100	NAME PLATE	EACH	1	1		

SUMMARY OF QUANTITIES

SPECIALITY ITEMS	SPECIAL PROVISIONS	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0014	CONSTRUCTION TYPE CODE 0042	NON-PARTICIPATING
		59000200	EPOXY CRACK INJECTION	FOOT	65	65		
		60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	1	1		
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	379	379		
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	62	62		
		60608521	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24	FOOT	141	141		
S		63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
S		63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1		
S		63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1		
S		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1		
		63200310	GUARDRAIL REMOVAL	FOOT	183	183		
S		63500105	DELINEATORS	EACH	1	1		
S		63500310	REMOVE AND REINSTALL DELINEATOR	EACH	1	1		
		67100100	MOBILIZATION	L SUM	1	1		
		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	21	21		
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,131	2,131		
		70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	1,567	1,567		
		70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	404	404		
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	575	575		
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	438	438		
		72400310	REMOVE SIGN PANEL - TYPE I	SQ FT	48	48		
		72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	48	48		
S		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	225	225		
S		78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	180	180		
S		78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	403	403		
S		78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	322	322		
S		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12		

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USER NAME = 320211143 | PLOT SCALE = 50.0000 ' / in. | PLOT DATE = 8/28/2012

DESIGNED - TC | DRAWN - LOM | CHECKED - PK | DATE - 4/2012

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	3
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SPECIALITY ITEMS	SPECIAL PROVISIONS	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0014	CONSTRUCTION TYPE CODE 0042	NON-PARTICIPATING
S	*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	5	5		
S	*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1		
		78300100	PAVEMENT MARKING REMOVAL	SQ FT	32	32		
S		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12		
S	*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	2		
	*	Z0004552	APPROACH SLAB REMOVAL	SQ YD	125	125		
	*	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	51	51		
	*	28000400	PERIMETER EROSION BARRIER	FOOT	458	458		
	*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	*	Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2		
	*	Z0030320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	1	1		
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	26	26		
	*	Z0038119	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 1 1/2"	SQ YD	155	155		
	*	Z0049790	RELOCATING NAME PLATES	EACH	1	1		
	*	Z0062456	TEMPORARY PAVEMENT	SQ YD	302	302		
	*	Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1	1		
	*	Z0076600	TRAINEES	HOUR	500		500	
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500	
S		A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	6		
	*	X0322024	TRENCH DRAIN	EACH	1	1		
	*	X0325806	WATERPROOFING MEMBRANE SYSTEM	SQ FT	1,606	1,606		
	*	X6350120	DELINEATOR REMOVAL	EACH	2	2		
	*	X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	6	6		
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		

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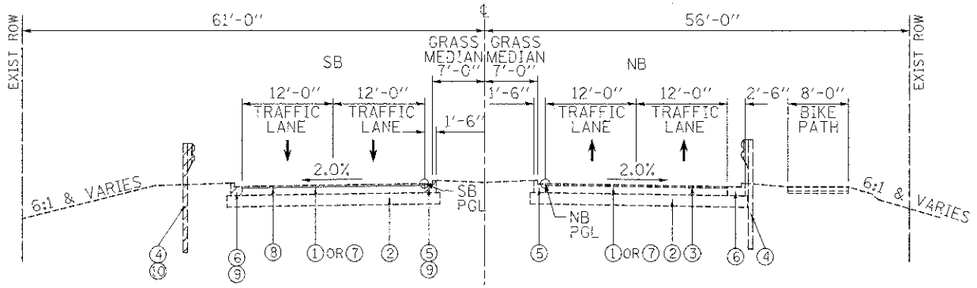
		DRAWN - LOM	REVISED -	
	PLOT SCALE = 50.0000 ' / in.	CHECKED - PK	REVISED -	
	PLOT DATE = 8/28/2012	DATE - 4/2012	REVISED -	

SUMMARY OF QUANTITIES

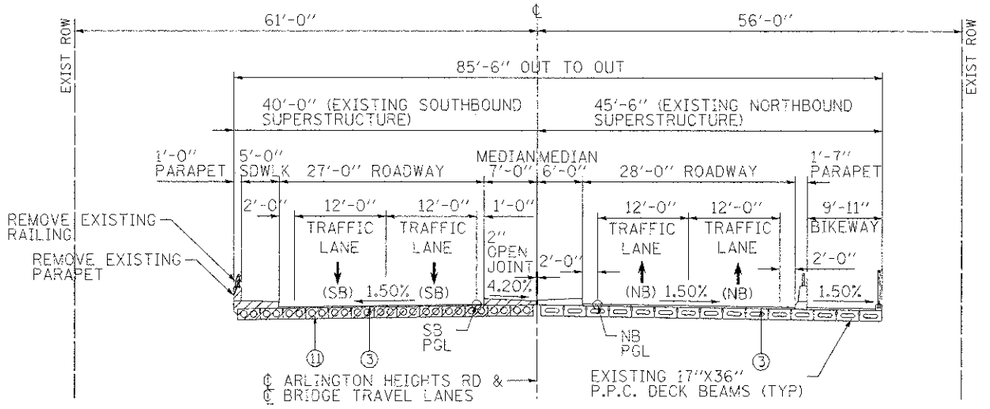
SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	4
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



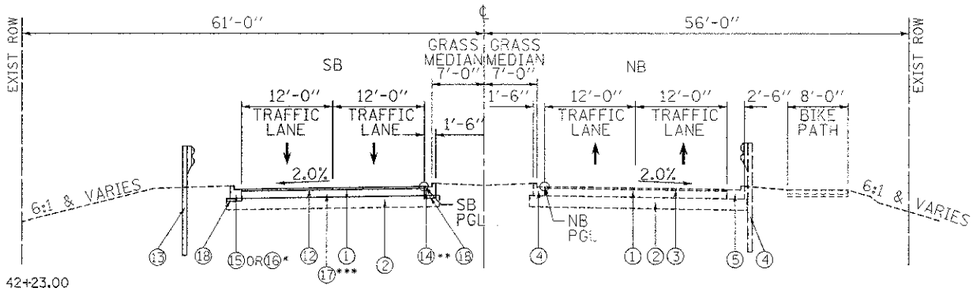
EXISTING TYPICAL ROADWAY SECTION

STA. 38+45.31 TO STA. 40+11.36
STA. 40+52.52 TO STA. 43+46.38



EXISTING TYPICAL BRIDGE SECTION

STA. 40+11.36 TO STA. 40+52.52



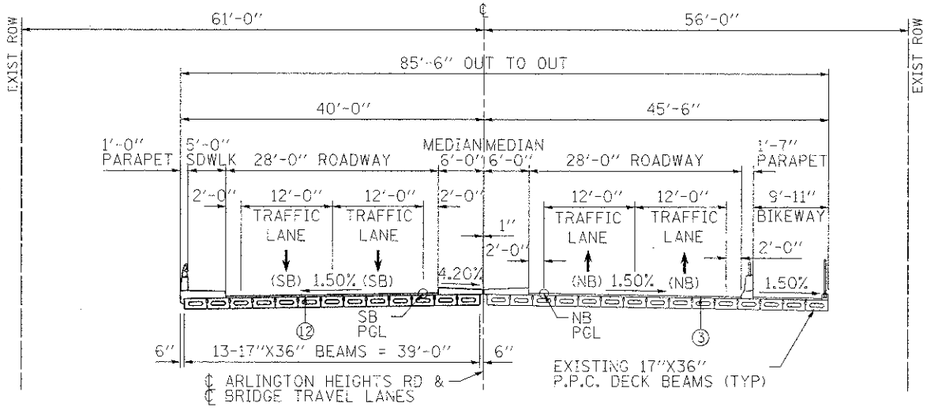
* STA. 39+40 TO STA. 42+23.00

** STA. 38+45.31 TO STA. 43+46.38

*** STA. 39+75.36 TO STA. 39+81.36
STA. 40+82.52 TO STA. 40+88.52

PROPOSED TYPICAL ROADWAY SECTION

STA. 38+45.31 TO STA. 39+75.36
STA. 40+88.52 TO STA. 43+46.38



PROPOSED TYPICAL BRIDGE SECTION

STA. 39+81.36 TO STA. 40+82.52

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
ARLINGTON HEIGHTS ROAD	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5MM), 3"	4% @ 90 GYR.
TEMPORARY ROAD	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
TEMPORARY PAVEMENT (HOT-MIX ASPHALT BINDER COURSE, IL-19 mm), 8", 3 LIFTS	
TEMPORARY OVERLAY	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 1 1/2"	4% @ 50 GYR.

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2030
PV = 30,127 SU = 962 MU = 961
ROAD/STREET CLASSIFICATION: CLASS 1
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 94 S = 3 M = 3
TRAFFIC FACTOR: ACTUAL TF = 5.47 AC TYPE = N/A
MINIMUM TF = N/A
PG GRADE: BINDER = N/A SURFACE = N/A
SUBGRADE SUPPORT RATING:
SSR = POOR

LEGEND

1. EXISTING PCC PAVEMENT
2. EXISTING SUBGRADE
3. EXISTING HMA OVERLAY
4. EXISTING GUARDRAIL
5. EXISTING CURB AND GUTTER, TYPE B-6.12
6. EXISTING CURB AND GUTTER, TYPE B-6.24
7. EXISTING BRIDGE APPROACH SLAB
8. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, 1½"
9. COMBINATION CURB AND GUTTER REMOVAL
10. GUARDRAIL REMOVAL
11. REMOVE PORTLAND CEMENT CONCRETE DECK BEAMS
12. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 3"
13. STEEL PLATE BEAM GUARDRAIL
14. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
15. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
16. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24
17. BRIDGE APPROACH PAVEMENT CONNECTOR
18. AGGREGATE BASE COURSE, TYPE B 4"

FILE NAME = LC1143-sht-typical.dgn	USER NAME = 32021111143	DESIGNED - TC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS
		DRAWN - LOM	REVISED -		
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	PLOT DATE = 8/28/2012	DATE - 4/2012	REVISED -		SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. 38+45.31 TO STA. 43+46.38

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	5
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			

BENCHMARK COORDINATE TABLE						
BENCHMARK	NORTH	EAST	STATION	O/S TO ℄	ELEVATION	DESCRIPTION
BM 114	2000977.0710	1078777.7080	42+09.67	57.65' RT	694.12	NE FLANGE BOLT ON FH AT APPROXIMATELY 180' NORTH OF ARLINGTON HEIGHTS ROAD AND BUFFALO CREEK
BM 278	2000854.4197	1078671.0780	40+82.02	48.95' LT	692.85	EDGE OF STORM MANHOLE RIM AT APPROXIMATELY 50' NORTH OF ARLINGTON HEIGHTS ROAD AND BUFFALO CREEK

CENTERLINE COORDINATE TABLE			
POINT	NORTH	EAST	STATION
PROJECT BEGIN	2000612.7270	1078719.9790	38+45.31
℄ ARLINGTON HEIGHTS AT ℄ BUFFALO CREEK	2000799.3580	1078720.0200	40+31.94
PROJECT ENDS	2001113.8050	1078720.0900	40+60.47

GRAPHIC SCALE
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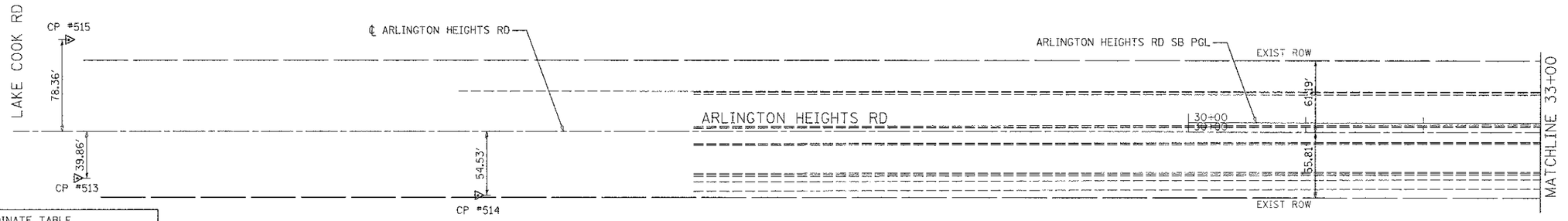
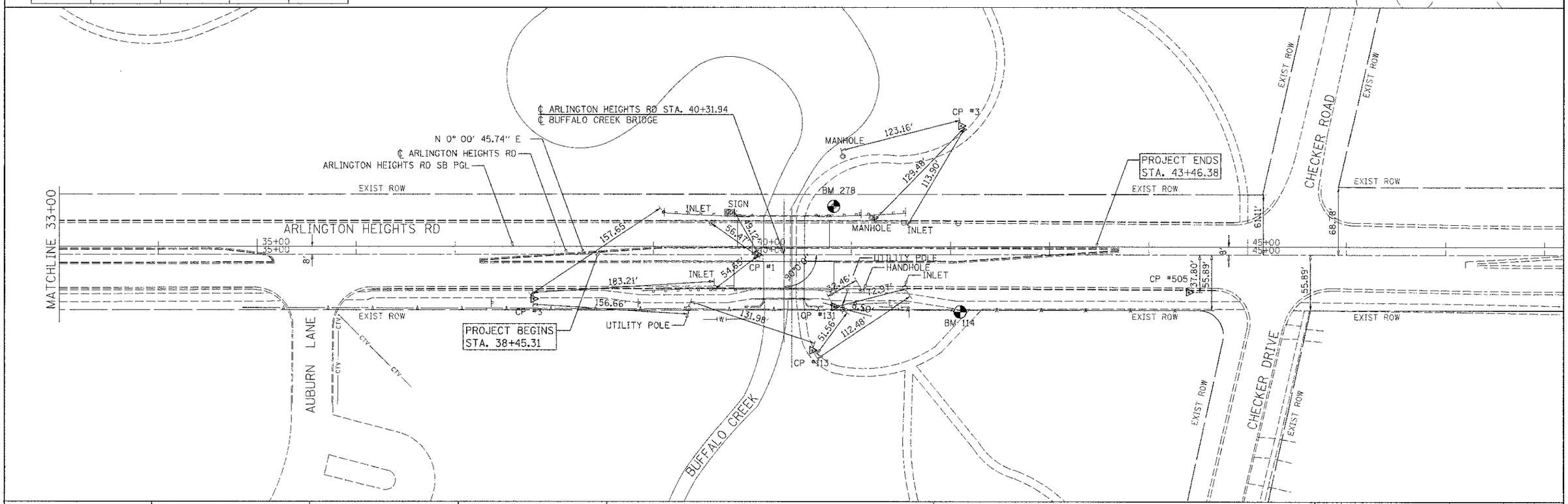
FEET



CONTROL POINTS COORDINATE TABLE				
POINT	NORTH	EAST	STATION	O/S TO ℄
CP #1	2000772.4420	1078720.4590	40+05.02	0.44' RT
CP #3	2000977.8480	1078589.6920	42+10.40	130.37' LT
CP #113	2000827.8660	1078816.7740	40+60.47	96.75' RT
CP #131	2000850.1760	1078772.9700	40+82.77	52.94' RT
CP #505	2001208.1330	1078757.9150	44+40.72	37.80' RT
CP #513	1998820.6490	1078759.4370	20+55.24	39.86' RT
CP #514	1999162.2630	1078774.1840	23+94.86	54.53' RT
CP #515	1998813.4630	1078641.2200	20+46.03	78.36' LT



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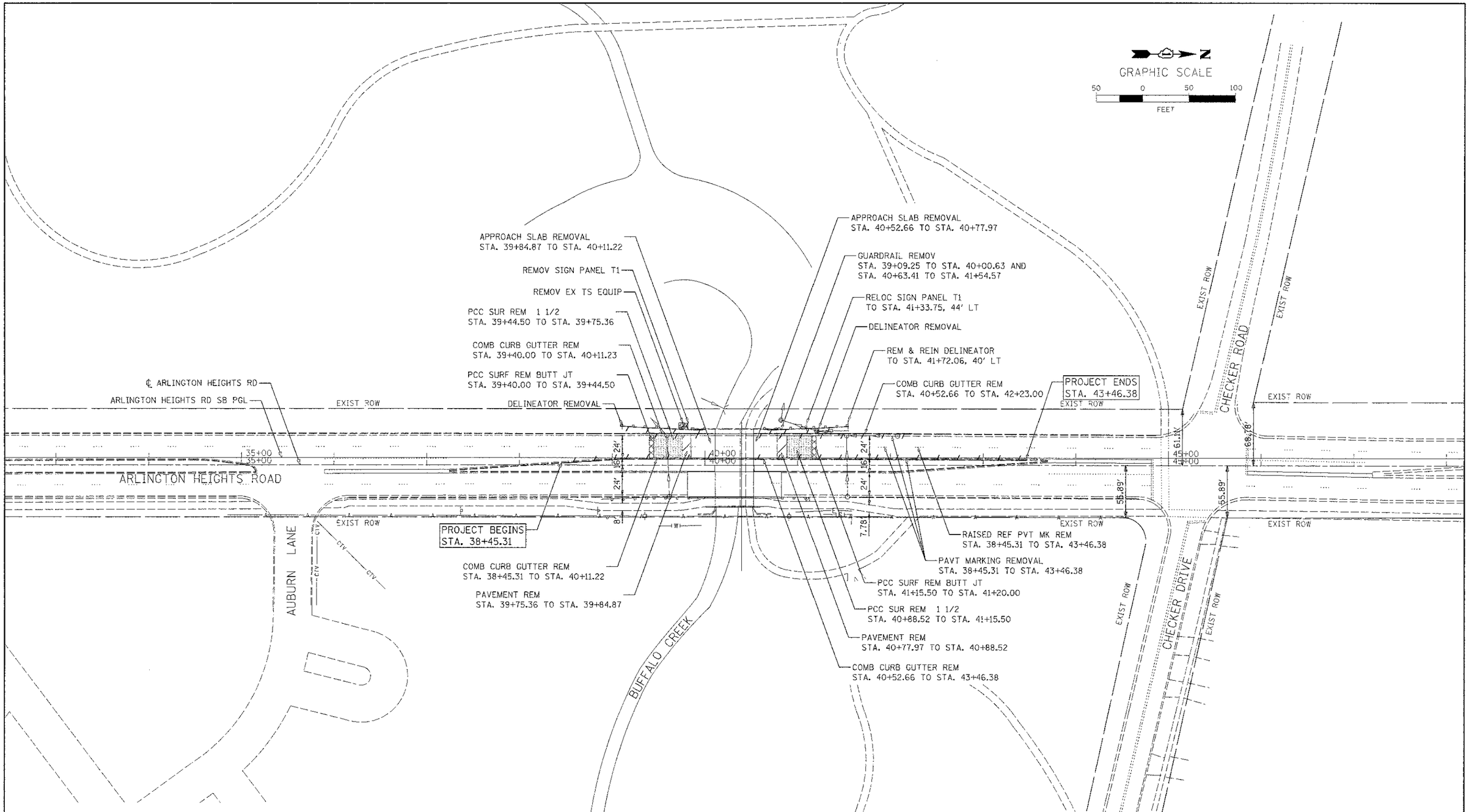
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 38+45.31 | TO STA. 43+46.38

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	6
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		



NOTES

1. CONTRACTOR SHALL COORDINATE SIGN REMOVAL WITH THE COUNTY.
2. STATION AND OFFSETS ARE TO THE CENTERLINE OF ARLINGTON HEIGHTS ROAD.
3. ALL METAL DELINEATORS SHALL BE REMOVED WITHIN THE PROJECT LIMITS.
4. FOR BRIDGE REMOVAL DETAILS SEE STRUCTURAL SHEETS.

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	PLOT DATE = 9/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND REMOVAL PLAN

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 38+45.31 TO STA. 43+46.38

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	7
		CONTRACT NO. 63713		
		[ILLINOIS] FED. AID PROJECT		

PERIMETER EROS BAR
STA. 38+45.31, 60.14' LT
TO STA. 40+20.53, 60.14' LT

APPROACH SLAB

P HMA SC "F" N90, 3"
STA. 39+40.00 TO STA. 41+20.00

8R APPR PVT CON (PCC)

TRAF BAR TERM T5
STA. 39+70.50, 38.92' LT

TRAF BAR TERM T2
STA. 39+58.00, 38.92' LT

FR & GRATES ADJUST
STA. 39+58.98, 32.24' LT
RIM = 694.97
PIPE & INLET PROTECTION

COMB CC&G TB6.24
STA. 39+40.00 TO STA. 39+81.36

℄ ARLINGTON HEIGHTS RD

ARLINGTON HEIGHTS RD SB PGL

EXIST ROW

ARLINGTON HEIGHTS ROAD

AUBURN LANE

PROJECT BEGINS
STA. 38+45.31

RAISED REFL PAVT MKR @ 80' C-C

COMB CC&G TB6.12
STA. 40+92.52 TO STA. 43+46.38

DELINEATORS
STA. 39+71.36, 8' LT

COMB CC&G TB6.24
STA. 39+71.36 TO STA. 39+81.36
AND STA. 40+82.52 TO STA. 40+92.52
SEE NOTE

BUFFALO CREEK

THPL PVT MK LINE 4, WHITE SKIP DASH
STA. 39+40.00 TO STA. 41+20.00

THPL PVT MK LINE 5, WHITE
STA. 39+40.00 TO STA. 41+20.00

APPROACH SLAB

TRAF BAR TERM T6
STA. 40+78.94, 39.00' LT

8R APPR PVT CON (PCC)

MAINTAIN FR & GRATE
STA. 41+20.31, 37.37' LT
EXIST RIM = 694.61

TR BAR TRM T1 SPL TAN
STA. 41+22.06, 39.00' LT

COMB CC&G TM2.24
STA. 40+82.52 TO STA. 42+23.00

MAINTAIN FR & GRATE
STA. 41+52.66, 32.18' LT
EXIST RIM = 694.14
PIPE & INLET PROTECTION

PERIMETER EROS BAR
STA. 40+63.80, 60.13' LT
TO STA. 43+46.39, 60.13' LT

POLYUREA PM T1 LN 5, WHITE
STA. 38+45.31 TO STA. 39+40.00
AND STA. 41+20.00 TO STA. 43+46.38

PROJECT ENDS
STA. 43+46.38

CHECKER ROAD

CHECKER DRIVE

EXIST ROW

POLYUREA PM T1 LN 4, WHITE SKIP DASH
STA. 38+45.31 TO STA. 39+40.00
AND STA. 41+20.00 TO STA. 43+46.38

MAINTAIN FR & GRATE
STA. 42+07.66, 31.74' LT
EXIST RIM = 693.81
PIPE & INLET PROTECTION

POLYUREA PM T1 LN 4, YELLOW
STA. 38+45.31 TO STA. 39+40.00
AND STA. 41+20.00 TO STA. 43+46.38

COMB CC&G TB6.12
STA. 40+92.52 TO STA. 43+46.38

THPL PVT MK LINE 4, YELLOW
STA. 39+40.00 TO STA. 41+20.00

GRAPHIC SCALE
50 0 50 100
FEET

LEGEND

SEEDING CL 2A

SEDIMENT CONTROL, SILT FENCE

TREE

NOTE:

1. FIELD ADJUST GUARDRAIL POST SPACING TO AVOID DRAINAGE STRUCTURES.
2. STATION AND OFFSETS ARE TO THE CENTERLINE OF ARLINGTON HEIGHTS ROAD.
3. SEE BIKEWAY TRENCH DRAIN DETAIL FOR BIKEWAY WORK UNDERNEATH BRIDGE.
4. CUTTER TRANSITION FROM 24" TO 12" SHALL BE PAID FOR AS COMB CC&G TB6.24.
5. SEDIMENT CONTROL, SILT FENCE SHALL BE FIELD ADJUSTED AS DIRECTED BY THE ENGINEER.

EXIST PROFILE ℄ SB PGL

PROP PROFILE ℄ SB PGL

BRIDGE

MATCH EXISTING
STA. 38+40.00
ELEVATION 695.51

VPI STA. 40+31.36
ELEVATION 695.29

VPI STA. 40+52.52
ELEVATION 695.09

MATCH EXISTING
STA. 41+20.00
ELEVATION 694.59

-0.68% -0.31% 0.49% -0.73% 0.35%

695.41 695.48 695.23 695.32 694.98 695.10 694.68 694.74 694.49

700 695 690 685 680

40+00 41+00

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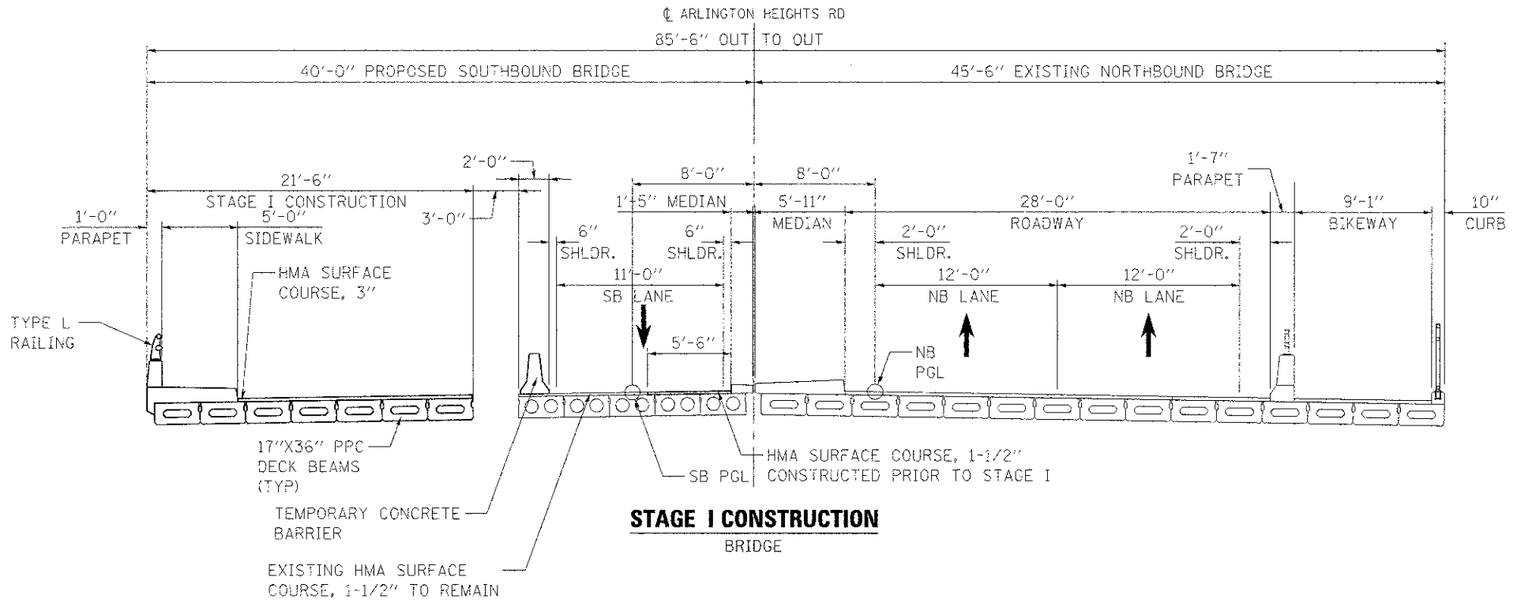
	PLOT DATE = 9/28/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

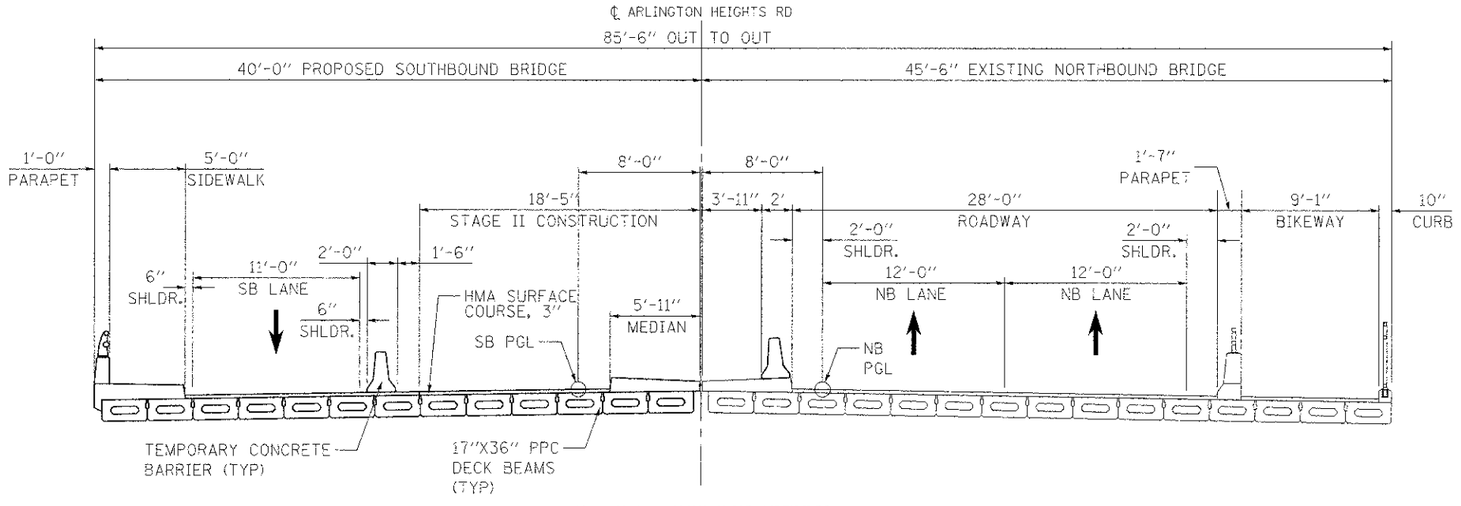
SCALE: H. 1" = 50' V. 1" = 5' | SHEET 1 OF 1 SHEETS | STA. 38+45.31 TO STA. 43+46.38

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	8
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		



STAGE I CONSTRUCTION

BRIDGE



STAGE II CONSTRUCTION

BRIDGE

FILE NAME = LC143-sht-staging-typical.dgn	USER NAME = 32021111143	DESIGNED - TC	REVISED -
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	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	9
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC CONTROL FOR STAGES I & II WILL BE PAID FOR AS A LUMP SUM, "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".

2. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND PROMPLY TO THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

3. SIDE STREETS SHALL REMAIN OPEN ALL TIMES. SPECIAL CONSIDERATION MAY BE GIVEN TO A SHORT TERM CLOSURE ON AS-NEEDED BASIS. THESE CLOSURES WILL BE COORDINATED WITH THE RESIDENT ENGINEER.

4. ALL COUNTY OWNED UTILITY STRUCTURES SHALL BE KEPT ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION. STRUCTURES SHALL BE ADJUSTED TO MATCH THE TEMPORARY PAVEMENT AND GRADING ELEVATION. ALL TEMPORARY ADJUSTMENTS TO STRUCTURES REQUIRED AS A RESULT OF THE STAGED MAINTENANCE OF TRAFFIC WILL NOT BE PAID FOR, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FINAL ADJUSTMENT ITEM.

5. EXCAVATION REQUIRED TO CONSTRUCT THE TEMPORARY PAVEMENT PRIOR TO STAGE I SHALL BE MEASURED FOR PAYMENT AND SHALL BE PAID FOR AS "EARTH EXCAVATION". QUANTITIES FOR THIS WORK HAVE BEEN INCLUDED IN THE EARTHWORK ITEM FOR THE STAGE.

6. ALL OBSTRUCTIONS SHALL BE REMOVED PRIOR TO CONSTRUCTING THE TEMPORARY PAVEMENT AND SHIFTING TRAFFIC ONTO IT. REMOVAL ITEMS ARE SHOWN ON THE REMOVAL SHEET.

7. THE WORK ZONE SPEED LIMIT SHALL BE 35 MPH.

8. THE REMOVAL OF THE BRIDGE MEDIAN AND TEMPORARY HMA SURFACE COURSE 1 1/2" ON THE BRIDGE DECK SHALL BE PAID FOR AS CONCRETE REMOVAL.

9. TEMPORARY PAVEMENT SHALL CONSIST OF HMA BINDER IL-19MM, 8" AND HMA SURFACE COURSE "D", N50, 2".

SEQUENCE OF CONSTRUCTION

STAGE I
1. INSTALL EROSION CONTROL DEVICES PER SHEET 8. MAINTAIN TRAFFIC USING IDOT STANDARD 701101.
2. INSTALL TRAFFIC CONTROL DEVICES ALONG THE WEST SIDE OF THE ROADWAY. COVERUP ALL CONFLICTING EXISTING PAVEMENT MARKINGS AND SIGN USING COUNTY STANDARD LC7002.
3. REMOVE CURB AND GUTTER AND BRIDGE MEDIAN USING COUNTY STANDARD LC7002.
4. CONSTRUCT TEMPORARY PAVEMENT FROM STA 38+45.31 TO STA. 43+46.38 USING COUNTY STANDARD LC7002.
5. INSTALL BIKEWAY DETOUR PLAN AS SHOWN ON SHEET 11.
6. INSTALL STAGE I TRAFFIC CONTROL.
7. SHIFT TRAFFIC TO EAST SIDE OF ROADWAY TO UTILIZE THE EXISTING AND TEMPORARY PAVEMENT.
8. REMOVE THE EXISTING CURB AND GUTTER ON THE WEST SIDE.
9. CONSTRUCT THE APPROACH SLAB, BRIDGE DECK BEAMS, PARAPET, AND THE TRENCH DRAIN ALONG THE BIKEWAY UNDERNEATH THE BRIDGE.

STAGE II
1. MAINTAIN BIKEWAY DETOUR FOR TRAIL UNDERNEATH BRIDGE AS SHOWN ON SHEET 11. REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS AND SIGNS. INSTALL STAGE II TRAFFIC CONTROL PLAN.
2. REMOVE TEMPORARY PAVEMENT ON THE EAST SIDE OF THE ROAD CONSTRUCTED IN STAGE I.
3. SHIFT TRAFFIC TO THE WEST SIDE TO UTILIZE THE EXISTING PAVEMENT AND BRIDGE DECK BEAMS CONSTRUCTED IN STAGE I.
4. PRIOR TO REMOVAL OF THE EXISTING BRIDGE DECK BEAMS ON THE EAST SIDE CONSTRUCT TEMPORARY PAVEMENT FROM STA. 39+86.90 TO STA. 40+10.65 ALONG THE NORTHBOUND LANES. INSTALL TEMPORARY CONCRETE BARRIER ON THE TEMPORARY PAVEMENT AND THE EXISTING NORTHBOUND BRIDGE DECK.
5. CONSTRUCT THE APPROACH SLAB, BRIDGE DECK BEAMS, AND CURB AND GUTTER AND RESTORE THE MEDIAN ON THE EAST SIDE.
6. REMOVE BIKEWAY DETOUR PLAN.
7. PLACE PERMANENT PAVEMENT MARKINGS.
8. REMOVE TEMPORARY EROSION CONTROL DEVICES.

GRAPHIC SCALE
50 0 50 100
FEET

LEGEND
- CONSTRUCTION ZONE
- TEMPORARY HMA PAVEMENT
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- VERTICAL SIGN PANELS (GROUND MOUNTED)
- BARRICADE TYPE II WITH MONO DIRECTIONAL STEADY BURNING LIGHT
- FLASHING ARROW BOARD
- TRAFFIC DIRECTION

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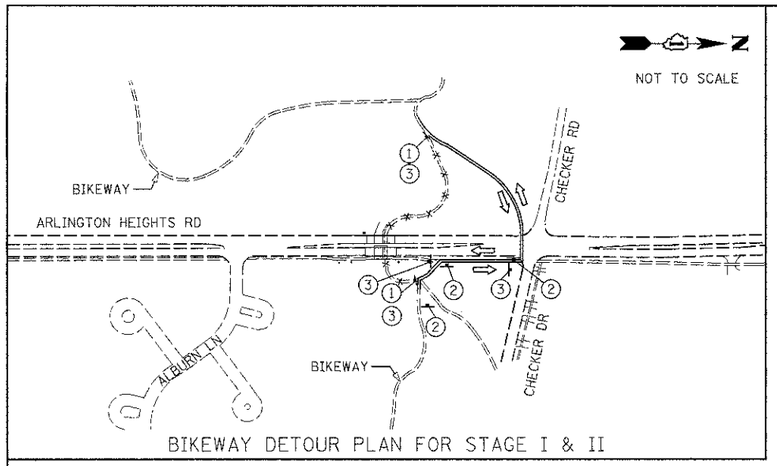
	PLOT DATE = 8/28/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTAINENCE OF TRAFFIC PLAN STAGE I

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 37+24.69 TO STA. 54+72.28

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	10
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



BIKEWAY DETOUR PLAN FOR STAGE I & II

① BIKE TRAIL CLOSED

② DETOUR M4-9C(R)

③ DETOUR M4-9C(L)

LEGEND

- CONSTRUCTION ZONE
- TEMPORARY HMA PAVEMENT
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- VERTICAL SIGN PANELS (GROUND MOUNTED)
- BARRICADE TYPE II WITH MONO DIRECTIONAL STEADY BURNING LIGHT
- FLASHING ARROW BOARD
- TRAFFIC DIRECTION

NOTES

1. CONTRACTOR SHALL COORDINATE WITH THE LAKE COUNTY FOREST PRESERVE DISTRICT AND VILLAGE OF BUFFALO GROVE PRIOR TO INSTALLING BIKEWAY DETOUR PLAN.
   SEE SHEET 2 FOR CONTACT INFORMATION.

GRAPHIC SCALE
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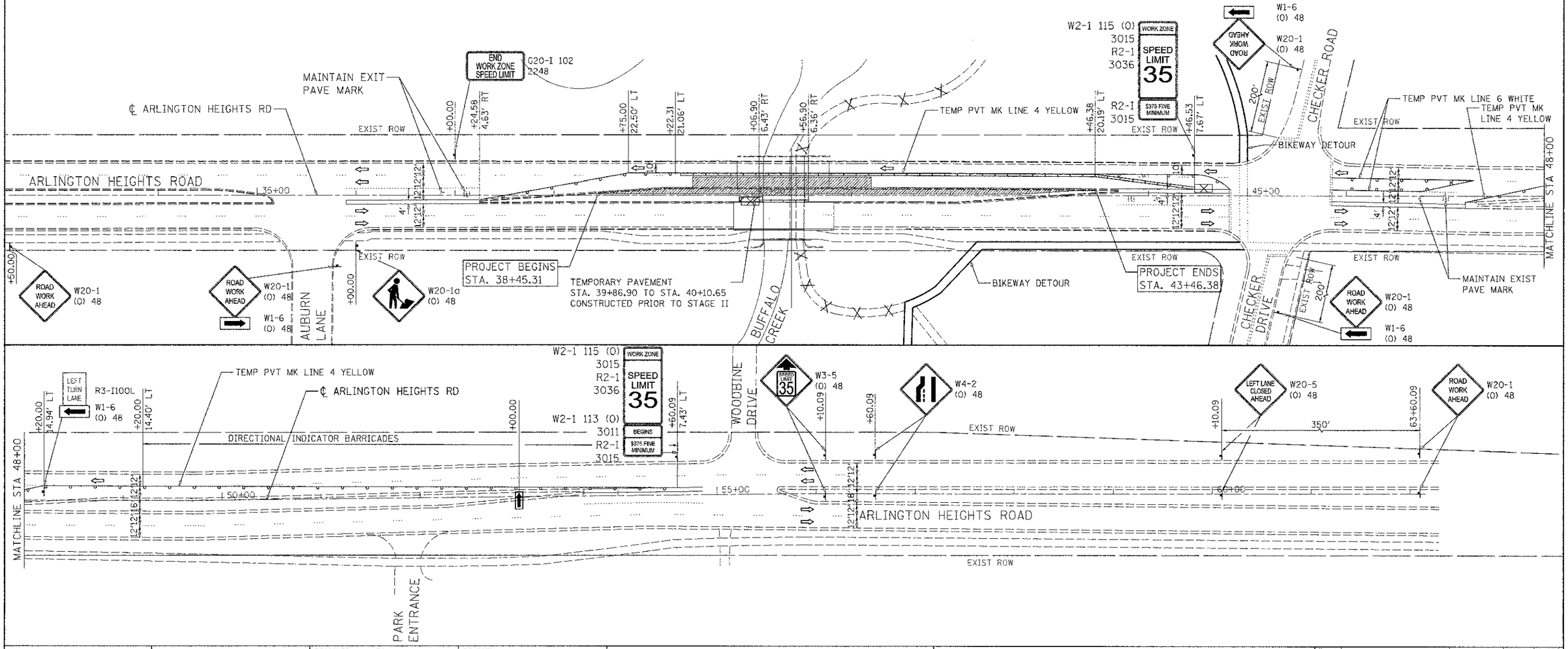
FEET



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	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTAINENCE OF TRAFFIC PLAN STAGE II

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 37+24.58 TO STA. 54+60.09

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	11
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

Bench Mark: BM114
NE flange bolt on fire hydrant at approximately 180' north of Arlington Heights Road and Buffalo Creek.
Elevation = 694.12

Existing Structure:
S.N. 049-3040 (NB) & 049-3055 (SB) were originally constructed in 1969 and widened in 1980. The single span superstructure consists of 17"x36" PPC deck beams. The substructure consists of reinforced concrete closed abutments on spread footings. The NB superstructure was replaced in 2011. The existing SB structure measures 42'-6" Bk. to Bk. abutments and 39'-11" O. to. O. deck.

Salvage:
None

PROPOSED SCOPE OF WORK

1. Remove existing SB superstructure, including bearing pads and partial backwalls, replace with new standard 17"x36" PPC deck beams with HMA wearing surface and waterproofing membrane system.
2. Replace existing sidewalk in-kind.
3. Remove existing 20'-0" approach slabs and replace with new IDOT standard 30'-0" bridge approach slabs with HMA wearing surface.
4. At existing abutments, repair cracks with Epoxy Crack Injection, and repair deteriated concrete with Structural Repair of Concrete (Depth =< 5").
5. Construction will be staged to maintain one lane of traffic in the SB direction.

DESIGN SPECIFICATIONS

AASHTO LFRD Bridge Design Specifications
5th Edition with 2010 Interim

LOADING HL-93

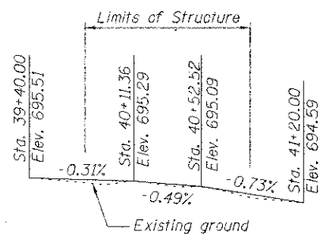
No future wearing surface allowed

DESIGN STRESSES

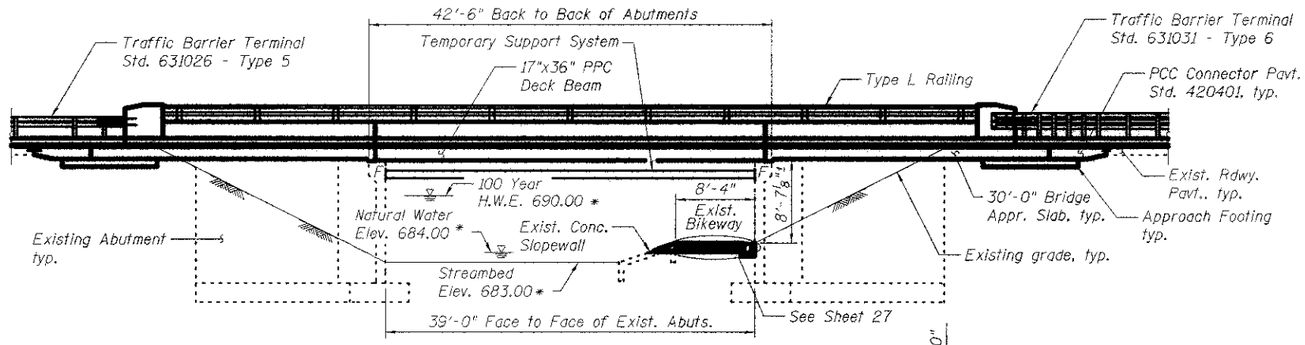
FIELD UNITS (EXISTING)
f'_c = 3,500 psi
f_s = 20,000 psi

FIELD UNITS (PROPOSED)
f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f_{pu} = 270,000 psi ($\frac{1}{2}$" ϕ low lax. strands)
f_{pbt} = 201,960 psi ($\frac{1}{2}$" ϕ low lax. strands)



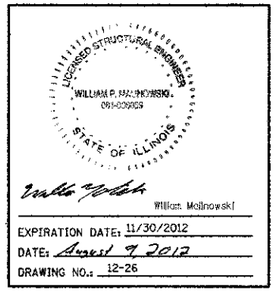
PROFILE GRADE
(along SB PGL)



EXISTING WATERWAY INFORMATION

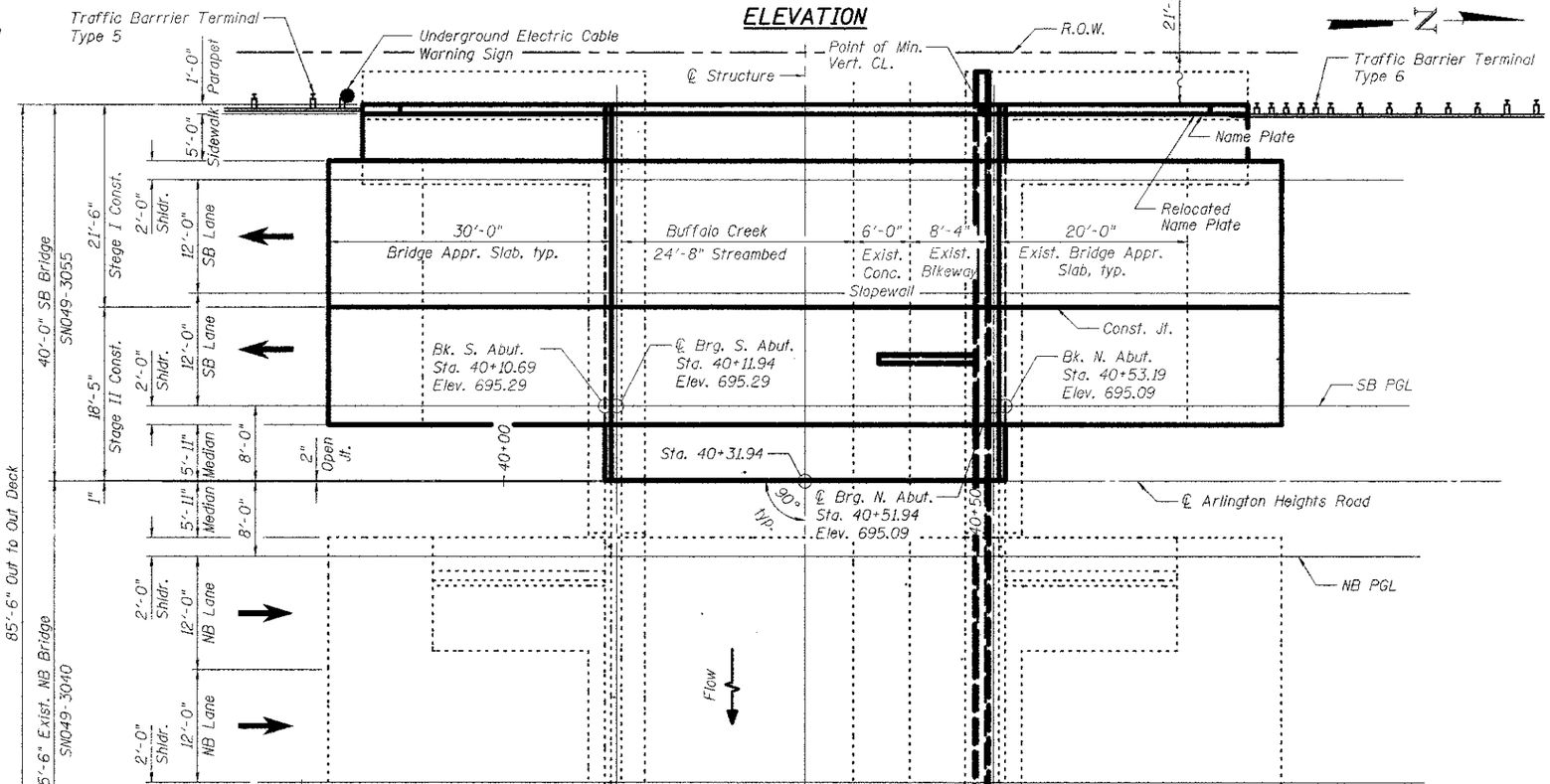
Drainage Area =	16.25 mi
Design Discharge (100 yr) =	1,000 c.f.s.
High Water Elevation (100 yr) =	690.0*
Existing Opening (below H.W.E.) =	273 ft²
Proposed opening (below H.W.E.) =	250 ft²
Created Head =	Negligible

* These elevations were taken off the existing Bridge Plans and may not coincide with the current profile. They were included for background purposes only.

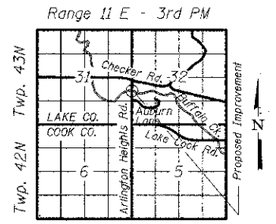


I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

ELEVATION



PLAN



LOCATION SKETCH

GENERAL PLAN & ELEVATION
SB ARLINGTON HEIGHTS ROAD OVER BUFFALO CREEK
F.A.U. RTE 2626 - SEC. 05-00193-04-BR
LAKE COUNTY
STATION 40+31.94
STRUCTURE NO. 049-3055

amec

FILE NAME = 0493055-63531-001-GPE.dgn	USER NAME =	DESIGNED - JY	REVISED -
		CHECKED - WPM	REVISED -
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	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 049-3055
SHEET NO. 1 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	36	12
	S.N. 049-3055(SB)	CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

2. Reinforcement bars designated (E) shall be epoxy coated.

3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

4. Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

5. The Contractor shall submit Structural Assessment Report(s) as required for Contractor's means and methods of construction. See Special Provisions.

6. If the Contractor's procedure for existing beam removal or placement of the new beams involves placement of cranes or other heavy equipment on the new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the newbeams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timber shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats, the following shall be done: placement and tightenin of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

7. The Contractor is advised that the existing abutments were not designed to support the horizontal earth load acting upon it without the support of the existing beams acting as a strut. It is the Coniractors responsibility to account for this condition when developing construction procedures for removal and replacement of the superstructure.

8. The Temporary Support System shall be in place prior to superstructure removal.

9. The Illinois Department of Transportation is NOT the owner of record for this bridge. Those seeking historic, as-built or other existing documents and plans must contact the owner of record to make arrangements for access to this information.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Sidewalk Removal	Sq. Ft.	258	--	258
Removal of Existing Superstructures	Each	1	--	1
Concrete Removal	Cu. Yd.	12.3	1.9	14.2
Concrete Structures	Cu. Yd.	--	19	19
Concrete Superstructure	Cu. Yd.	114.8	--	114.8
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1606	--	1606
Protective Coat	Sq. Yd.	143	--	143
Reinforcement Bars, Epoxy Coated	Pound	22750	3630	26380
Aluminum Railing, Type L	Foot	86	--	86
Name Plates	Each	1	--	1
Relocating Name Plates	Each	1	--	1
Epoxy Crack Injection	Foot	--	65	65
Waterproofing Membrane System	Sq. Ft.	1606	--	1606
Trench Drain	Each	--	1	1
Approach Slab Removal	Sq. Yd.	125	--	125
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	--	51	51
Temporary support system	L sum	--	1	1

STA. 40+31.94
BUILT 2013 BY
LAKE COUNTY
ARLINGTON HEIGHTS RD (C.H. 79)
SEC. NO. 10-00193-07-BR
LOADING HL-93
STR. NO. 049-3055

NAME PLATE

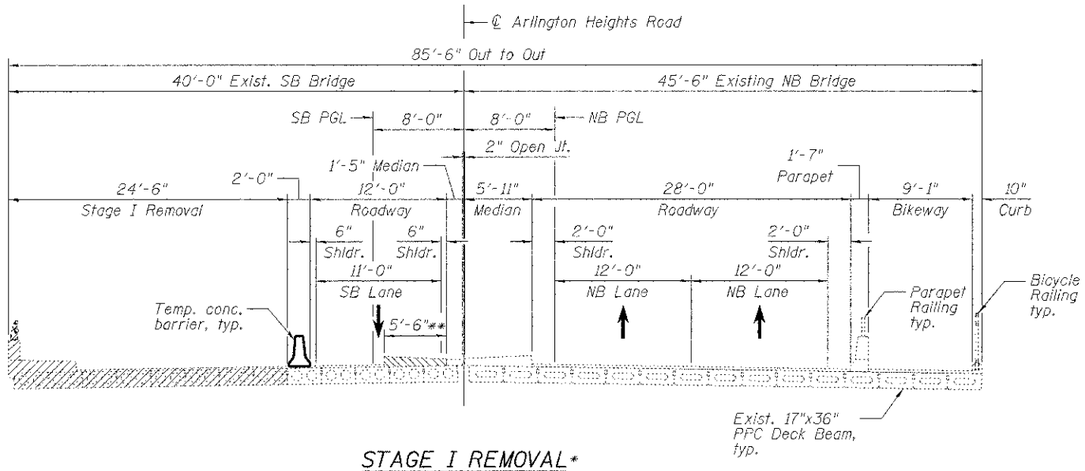
amec

FILE NAME = 0493055-63531-B02-General.dgn	USER NAME =	DESIGNED - KO	REVISED -
		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

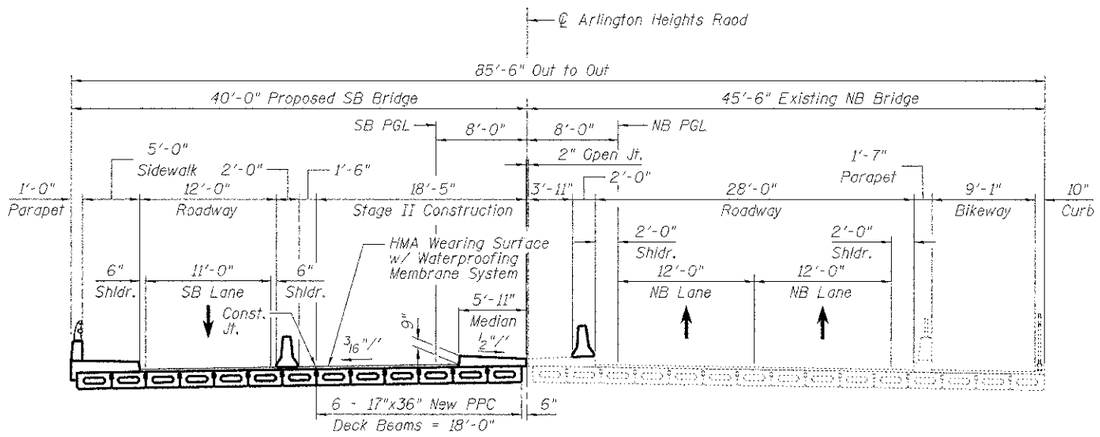
GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
STRUCTURE NO. 049-3055
SHEET NO. 2 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	13
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		



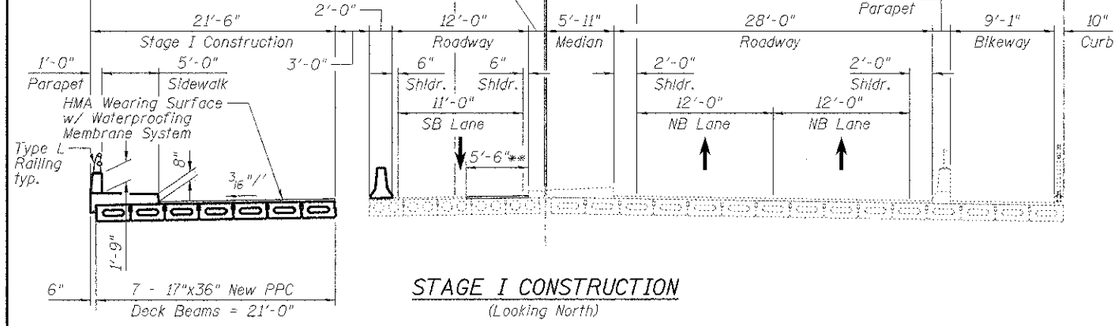
STAGE I REMOVAL*

(Looking North)



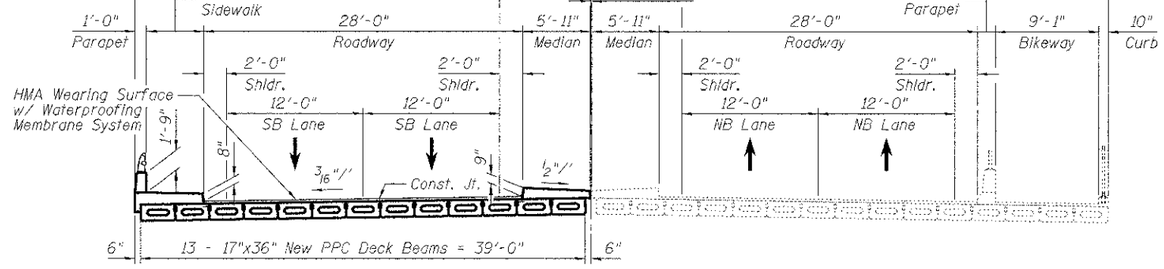
STAGE II CONSTRUCTION

(Looking North)



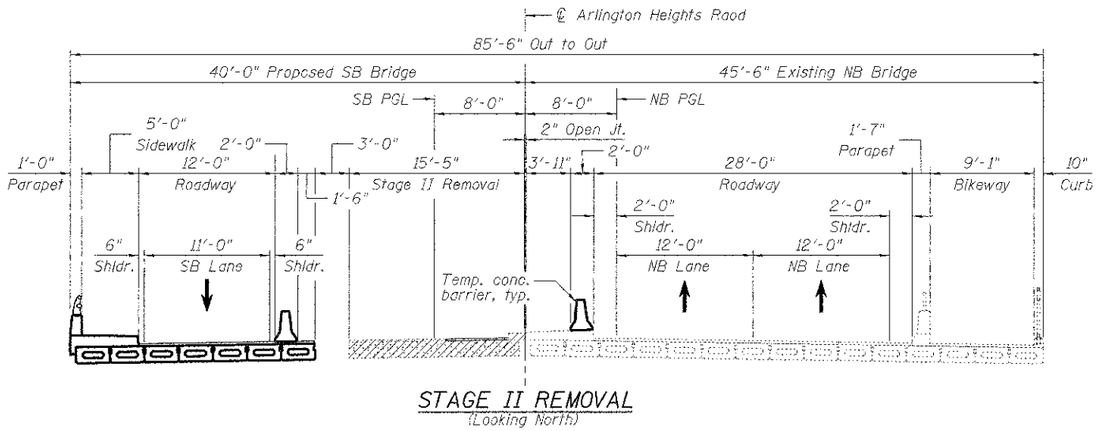
STAGE I CONSTRUCTION

(Looking North)



TYPICAL SECTION

(Looking North)



STAGE II REMOVAL

(Looking North)

Legend

Existing superstructure removal in Stages I & II

Limits of Concrete Removal

* Prior to Stage I Removal, a pre-construction traffic stage is necessary for the removal of 5'-6" of the southbound median. Drums shall be used to maintain one lane of southbound traffic during this removal. Drums may be adjusted in the field to facilitate median removal, as long as the minimum stage construction traffic lane widths are maintained.

** Remove existing concrete median & apply temporary asphalt overlay to line up with the top of existing deck.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cy. Yd.	7.3
Waterproofing Membrane System	Sq. Ft.	1606

amec

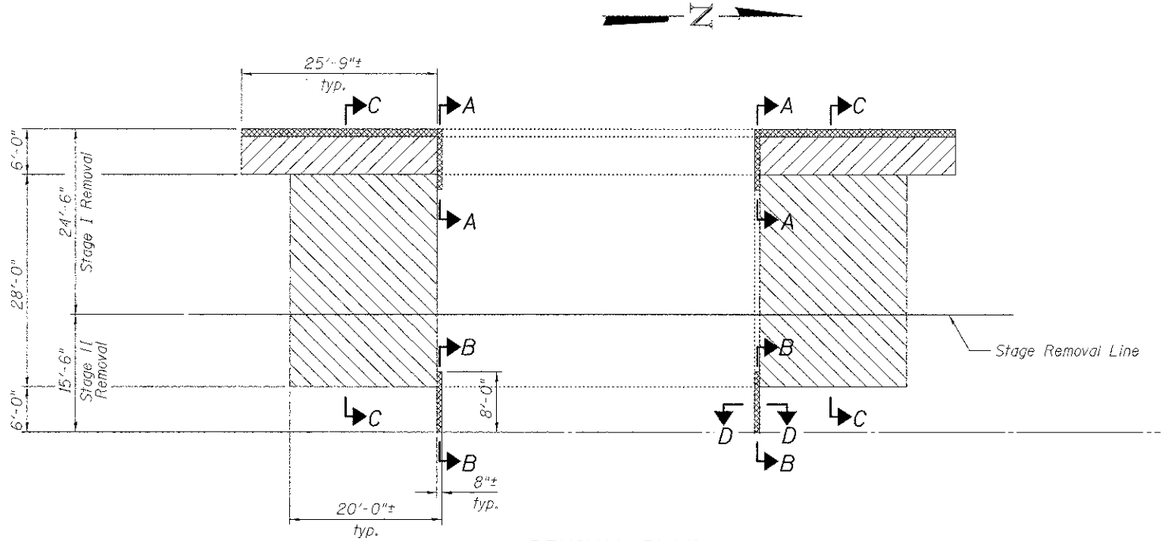
FILE NAME = 0493035-63531-003-Stage.dgn	USER NAME =	DESIGNED - JY	REVISED -
		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - JY	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
STRUCTURE NO. 049-3055
SHEET NO. 3 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	14

CONTRACT NO. 63713
ILLINOIS FED. AID PROJECT



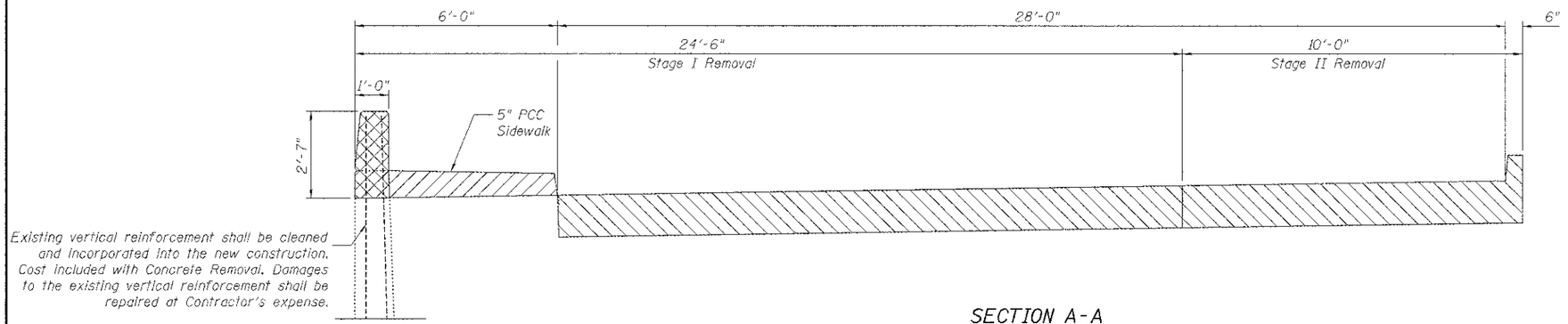
REMOVAL PLAN

Notes:

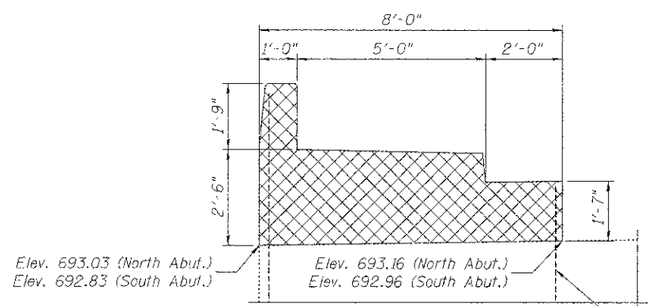
Removal of existing superstructure is not shown for clarity.
Removal dimensions are approximate and based on existing plans. Field verification is required.

BILL OF MATERIAL

Item	Unit	Quantity
Approach Slab Removal	Sq. Yd.	125
Concrete Removal	Cy. Yd.	6.9
Sidewalk Removal	Sq. Ft.	258



SECTION A-A



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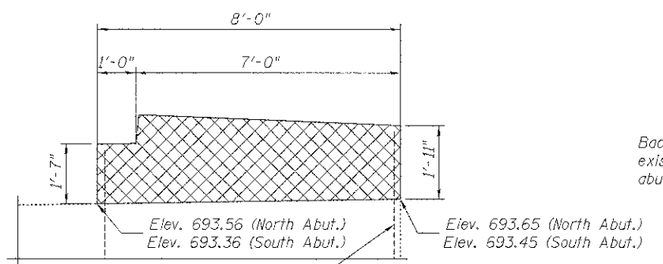
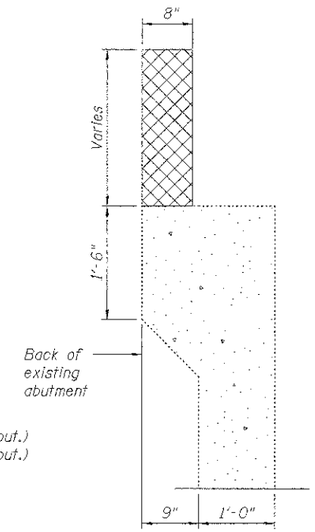


SECTION B-B



SECTION D-D

LEGEND

- Sidewalk Removal
- Approach Slab Removal
- Concrete Removal

amec

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		CHECKED - WPM	REVISED -			2626	10-00193-07-BR	LAKE	37	15
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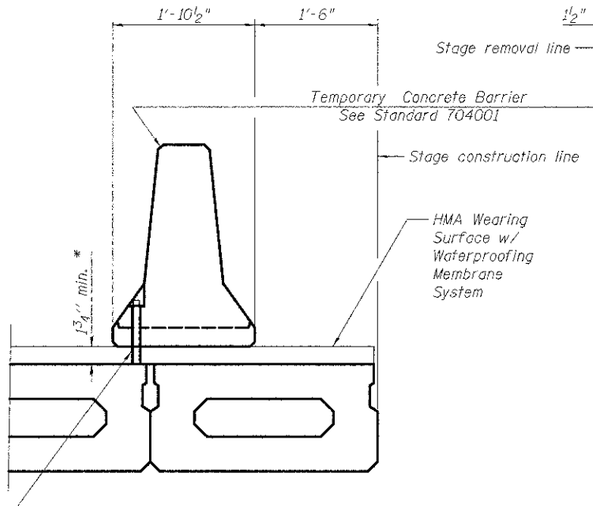
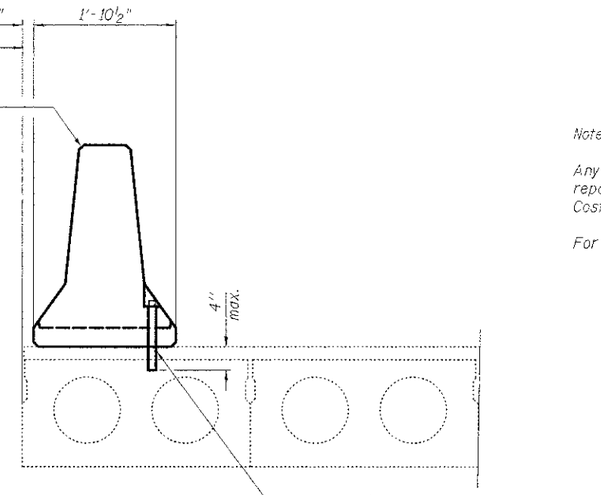
	PLOT DATE =	CHECKED - WPM	REVISED -				ILLINOIS FED. AID PROJECT			

* Drilling into PPC deck beam is prohibited. Embedment of $1\frac{3}{4}$" min. Dowel Bar into HMA wearing surface only.



NEW DECK BEAM



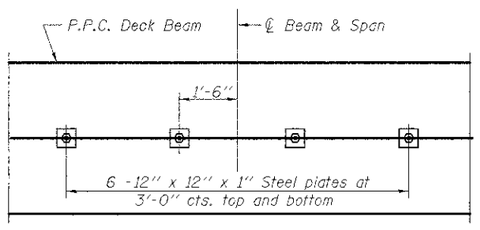
EXISTING DECK BEAM

Notes:

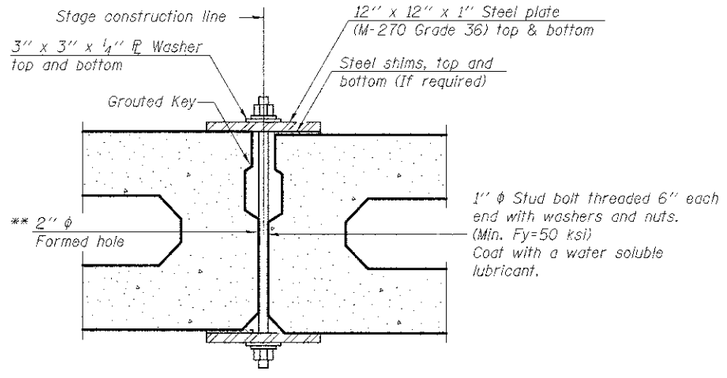
Any hole drilled into the new wearing surface shall be repaired upon removal of the Temporary Concrete Barrier. Cost shall be included with Temporary Concrete Barrier.

For quantity of Temporary Concrete Barrier, see Roadway Plans.

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION



PLAN



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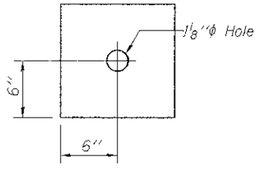

CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams.
See Stage Construction Sheet for traffic lanes.

** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

amec

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		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 049-3055
SHEET NO. 5 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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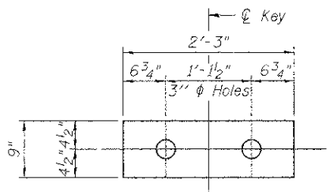
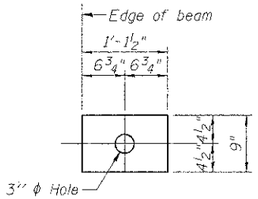
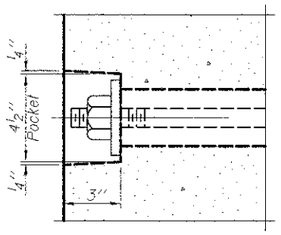
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



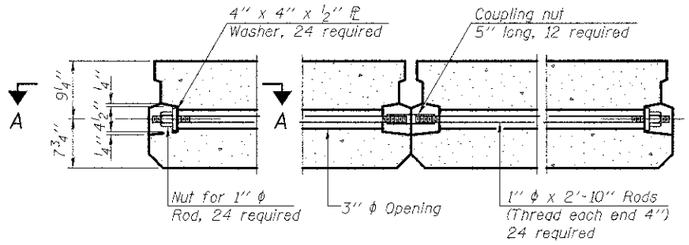
FABRIC BEARING PAD
(Interior)



FABRIC BEARING PAD
(Exterior)

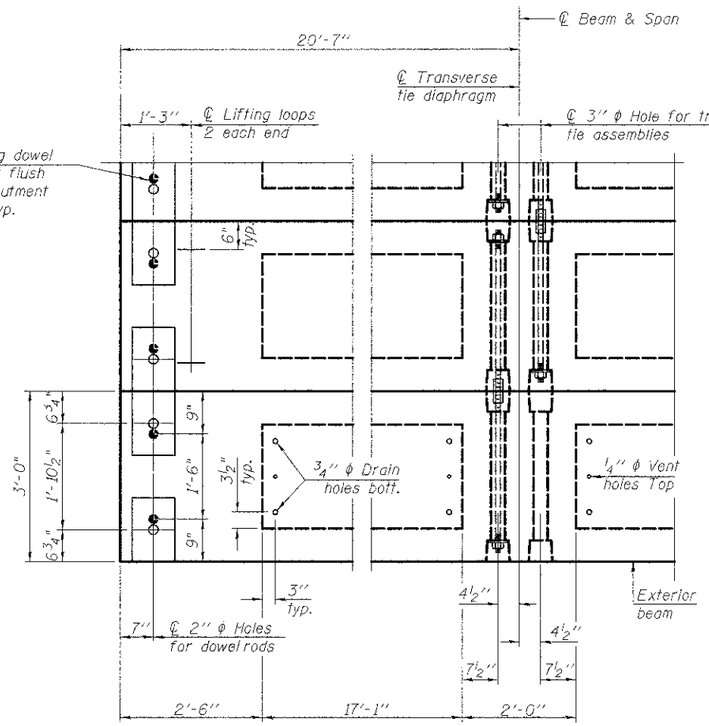


SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

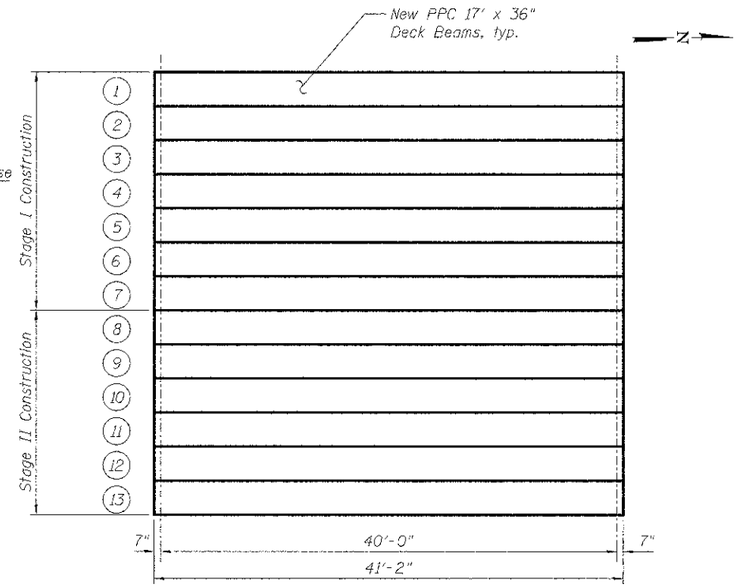
Note:
All bearing pads shall be 1" thick.



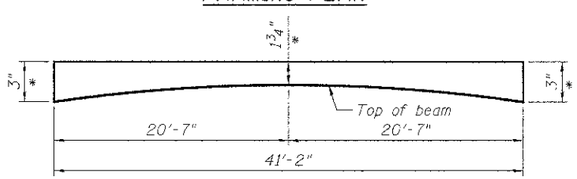
PLAN VIEW

Note: Verify existing 1" ϕ dowel spacing and existing dimensions in field prior to ordering 17" x 36" PPC deck beams.

Connect beams in pairs with the transverse tie configuration shown.



FRAMING PLAN



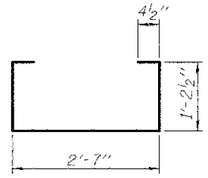
ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

* Approximate HMA height based on existing plans. Field verify to keep the min. HMA height at 1¼" at the center of the beam.

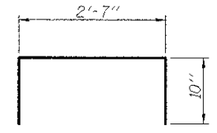
BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,606

Notes:
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



BAR S(E)



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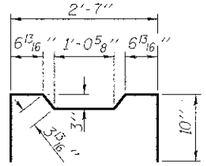

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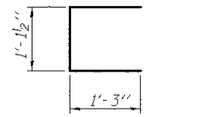

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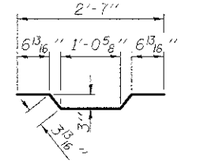

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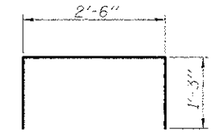

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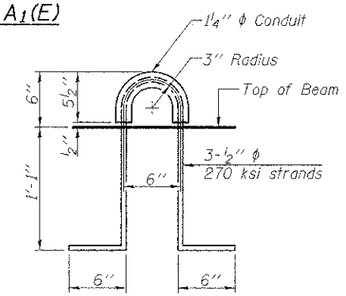
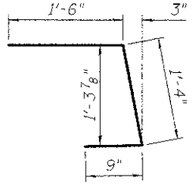


LIFTING LOOP DETAIL



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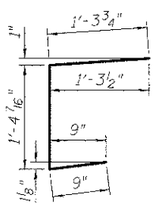

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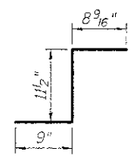

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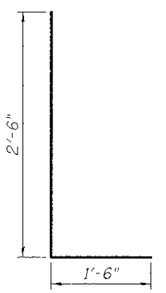

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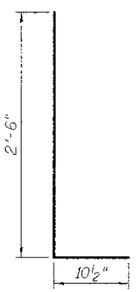

BAR d1(E)

amec

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		CHECKED - JY	REVISED -			2626	05-00193-04-BR	LAKE	37	17
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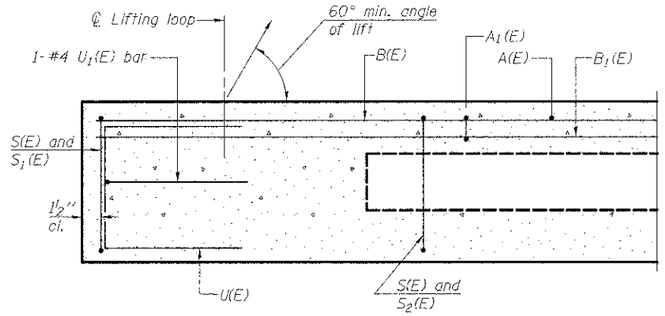
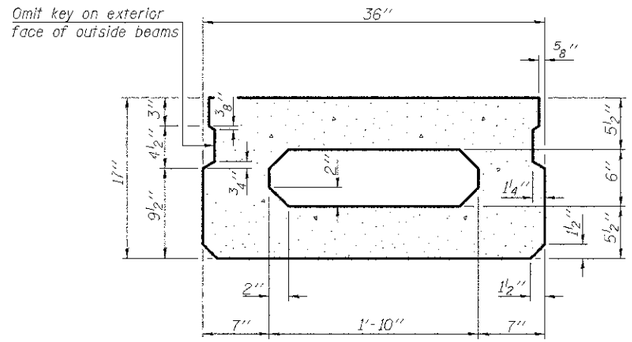
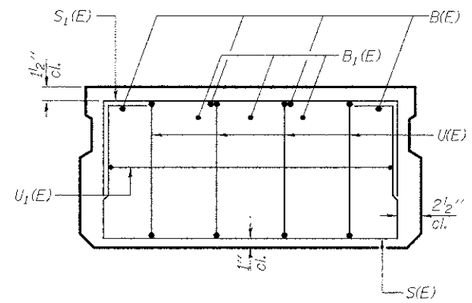
	PLOT DATE =	CHECKED - WPM	REVISED -		SHEET NO. 6 OF 15 SHEETS			ILLINOIS FED. AID PROJECT		



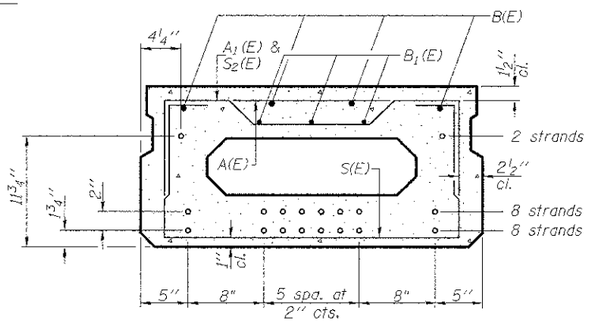
SECTION A-A



SECTION B-B
(Showing dimensions)



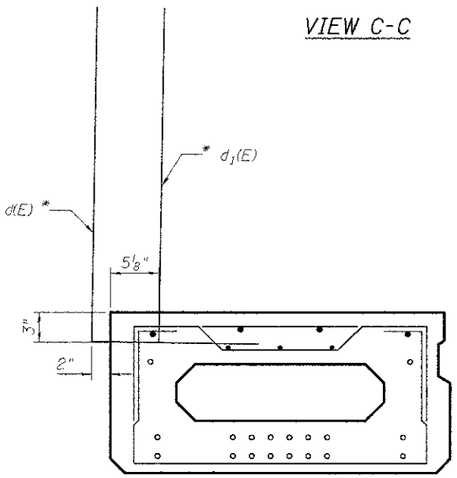
VIEW C-C



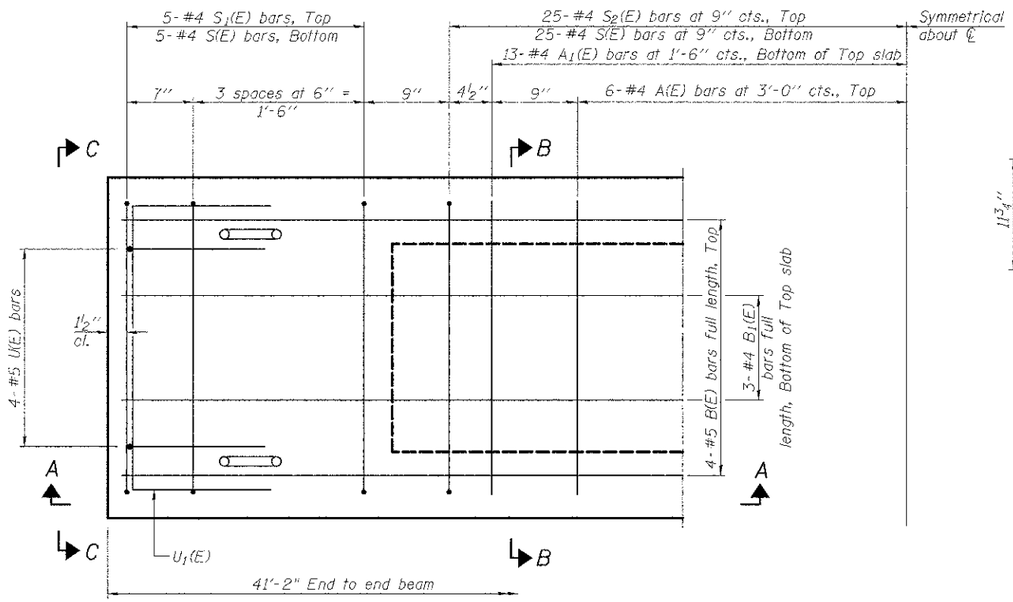
SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



BEAM 1



PLAN VIEW

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	2'-7"	—
A1(E)	25	#4	2'-10"	~
B(E)	4	#5	40'-11"	—
B1(E)	3	#4	40'-11"	—
S(E)	60	#4	5'-9"	⌐¬
S1(E)	10	#4	4'-3"	⌐¬
S2(E)	50	#4	4'-6"	⌐¬
U(E)	8	#5	3'-8"	⊏
U1(E)	2	#4	5'-0"	⌐¬

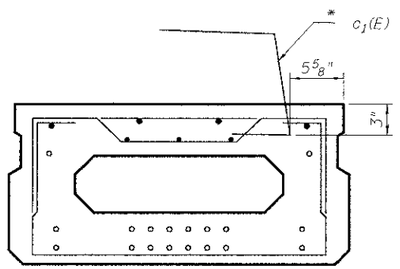
Note: See sheet 5 of 15 for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

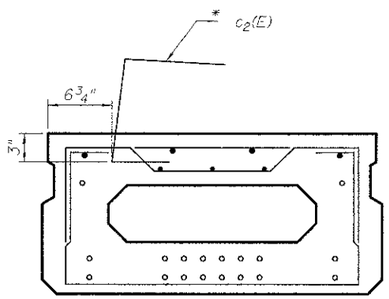
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

ADDITIONAL BARS *
(For information only)

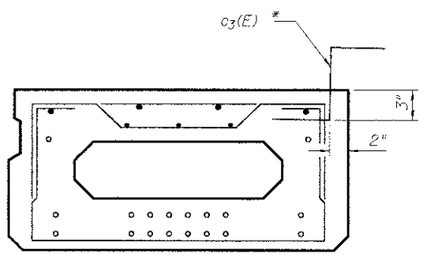
Beam	Bar	No.	Size	Length	Shape
Beam 1	d(E)	42	#4	4'-4"	L
	d1(E)	42	#6	3'-10"	L
Beam 2	c1(E)	42	#5	2'-5"	⌐¬
Beam 12	c2(E)	42	#5	2'-4"	⌐¬
Beam 13	c3(E)	42	#5	1'-8"	⌐¬



BEAM 2



BEAM 12



BEAM 13

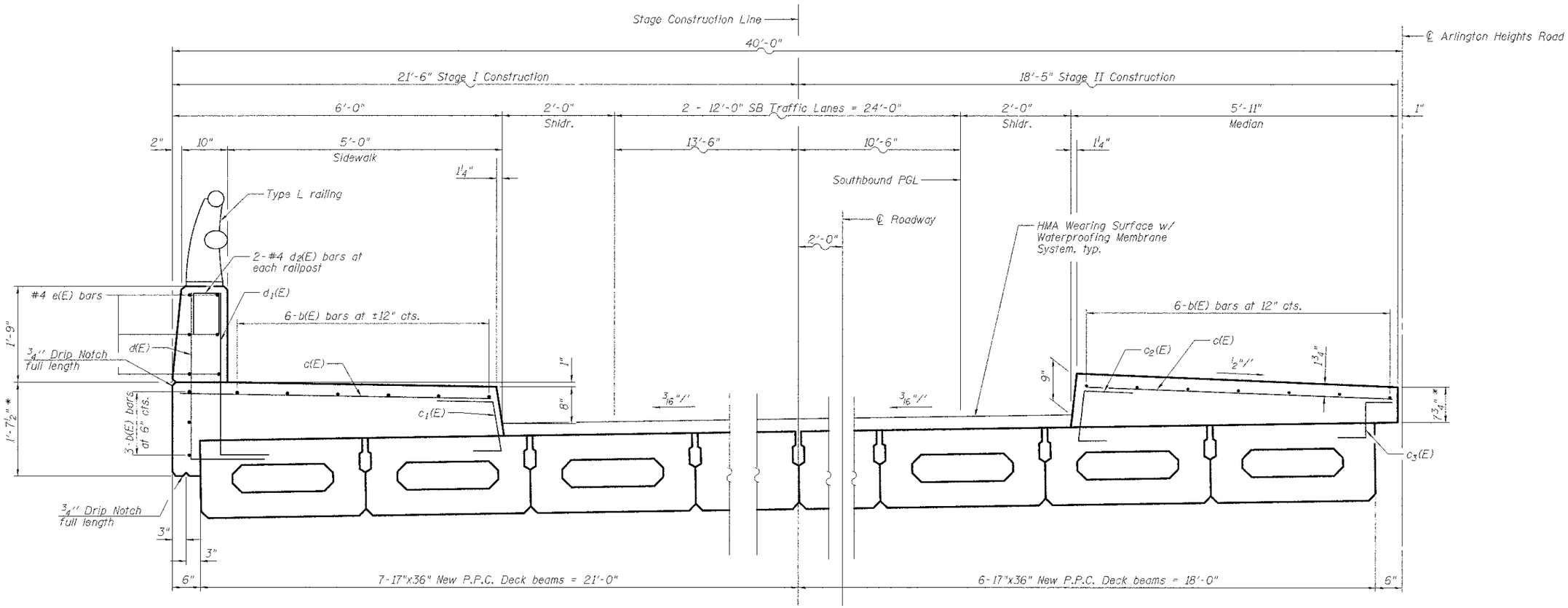
* These bars are additional bars required for Beams 1, 2, 12, and 13 as shown above, which is why they are not included in the "Bar List One Beam Only" table.

The bars are to be included in the cost of "Precast Prestressed Concrete Deck Beams (17" depth).

amec

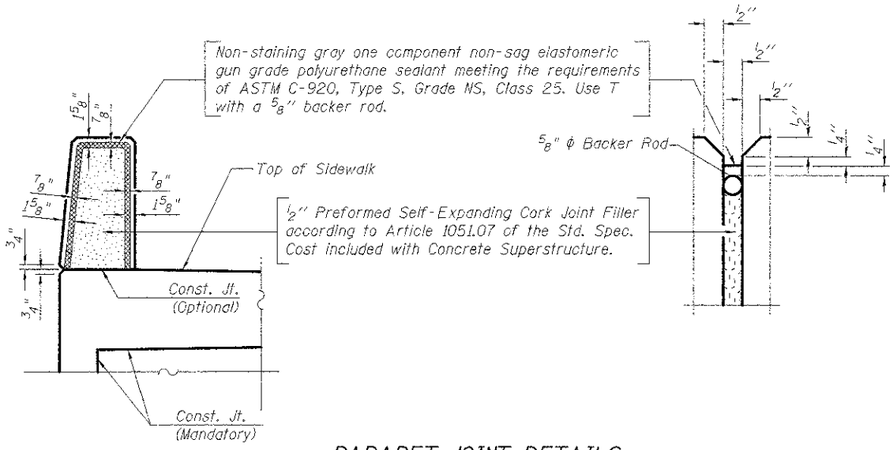
FILE NAME = 2493055-63531-007-BeamDetails2.dgn	USER NAME =	DESIGNED - WPM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 36" PPC DECK BEAM DETAILS 2 STRUCTURE NO. 049-3055
		CHECKED - JY	REVISED -		
	PLOT SCALE =	DRAWN - KQ	REVISED -		
	PLOT DATE =	CHECKED - WPM	REVISED -		SHEET NO. 7 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	18
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			

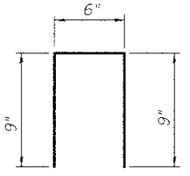


DECK CROSS SECTION

* *Vertical dimensions marked with an asterisk "*" will vary. The dimensions provided are the maximum dimensions located at the abutments. Due to the camber of beams, these dimensions will be reduced by approximately 1¼" at midspan. Adjust reinforcement bars in field accordingly.*



PARAPET JOINT DETAILS



BAR $d_2(E)$

PARAPET & MEDIAN BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	32	#4	21'-6"	——
c(E)	42	#5	5'-7"	——
$d_2(E)$	10	#4	2'-0"	⊓
e(E)	12	#4	21'-6"	——
Concrete Superstructure			Cu. Yd.	19.3
Protective Coat			Sq. Yd.	82
Reinforcement Bars, Epoxy Coated			Pound	890

Note:
Apply protective coat to the top and inside vertical faces of the sidewalk, parapet, and median.

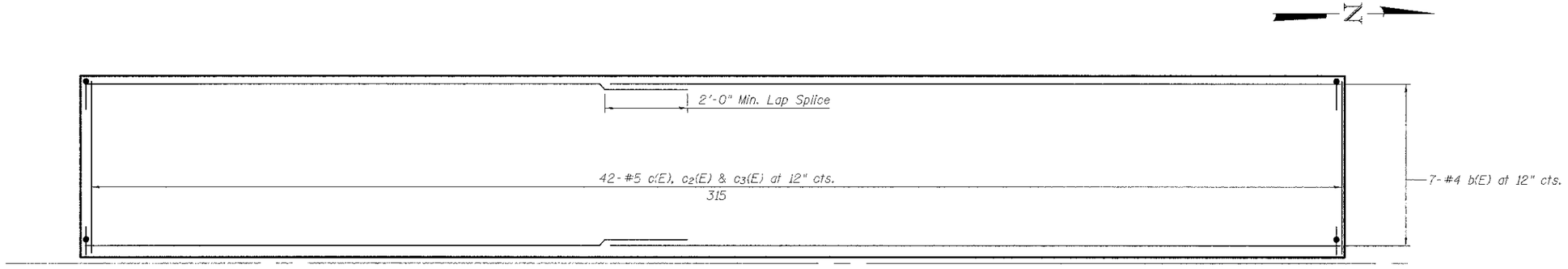
amec

FILE NAME = 0493055-63531-00R-TypSection.dgn	USER NAME =	DESIGNED - KO	REVISED -
		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

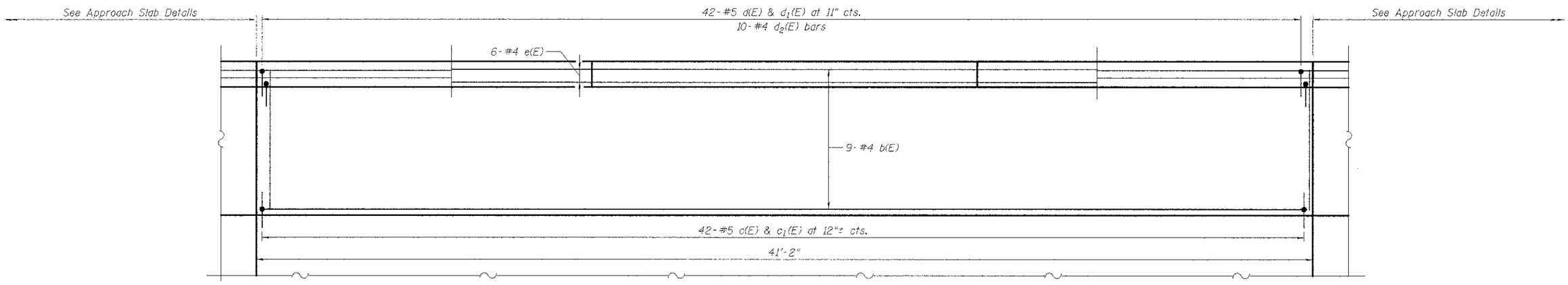
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
STRUCTURE NO. 049-3055
SHEET NO. 8 OF 15 SHEETS

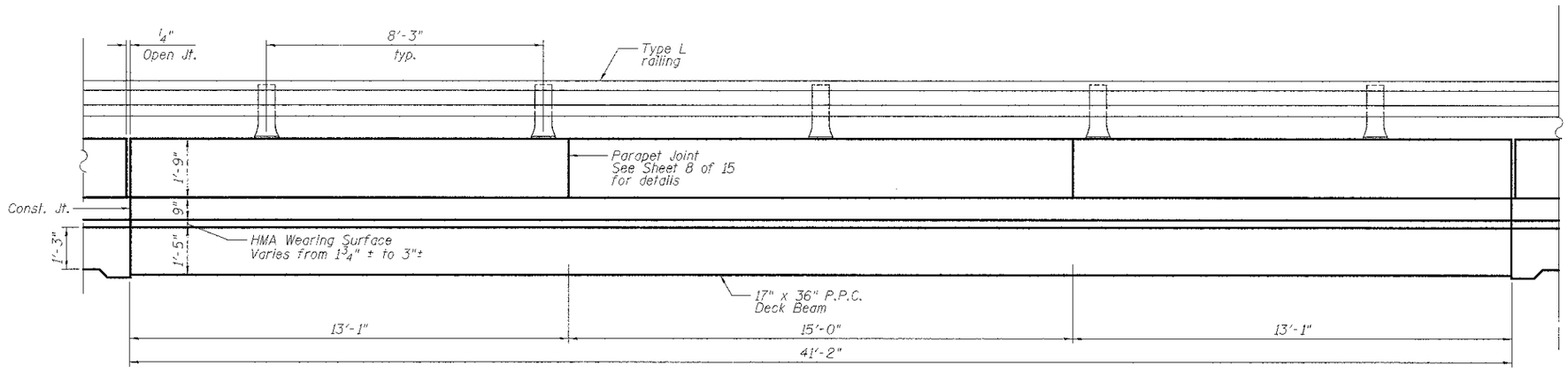
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	19
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



MEDIAN PLAN



SIDEWALK PLAN



INSIDE ELEVATION OF PARAPET

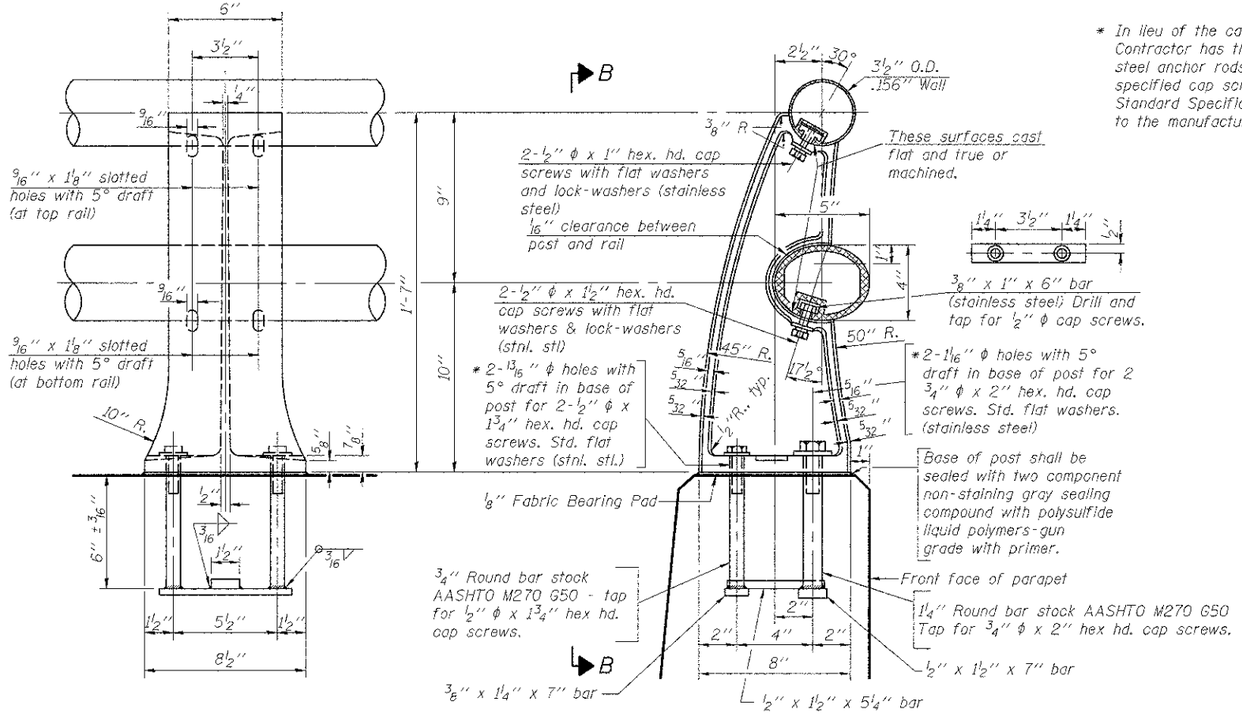
amec

FILE NAME = 0493055-63ES1-209-Parapet.dgn	USER NAME =	DESIGNED - KO	REVISED -
		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET, SIDEWALK, AND MEDIAN ELEVATION AND DETAILS
STRUCTURE NO. 049-3055
SHEET NO. 9 OF 15 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	20
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			

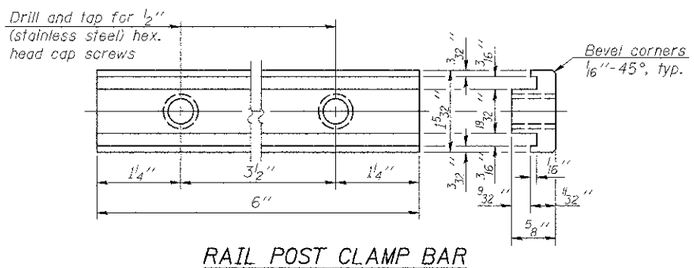


* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

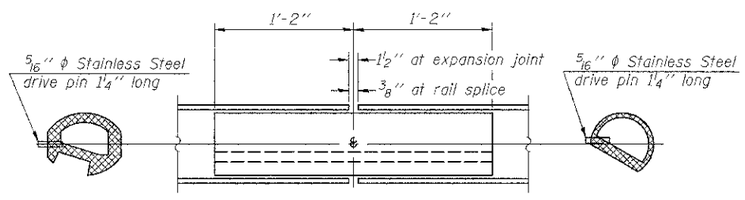
VIEW B-B

SECTION A-A

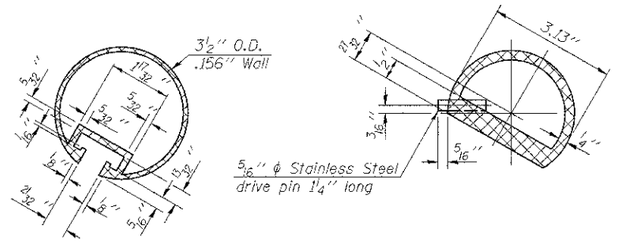
RAIL POST DETAILS



RAIL POST CLAMP BAR
For Top Rail

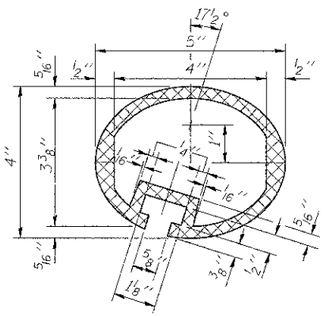


RAIL SPLICE

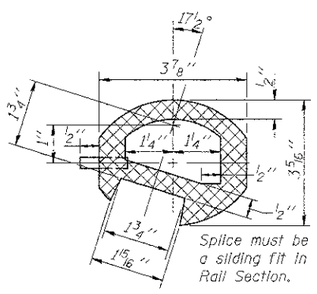


SECTION THRU TOP RAIL

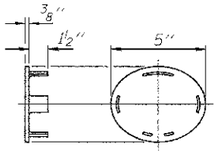
SECTION THRU SPLICE
For Top Rail



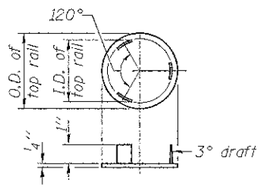
SEC. THRU ELLIPTICAL RAIL SECTION



SEC. THRU SPLICE

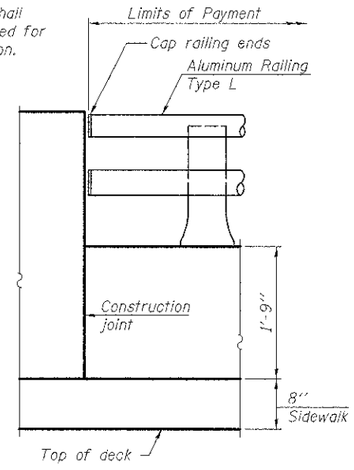


CAST END CAP
For bottom rail
DRIVE FIT TYPE



CAST END CAP
For top rail

Note:
The end rail post shall be set back as required for the terminal rail section.



RAIL END TREATMENT FOR TYPE 5 AND 6 TERMINAL

Notes:
All Posts shall be normal to parapet.
All joints in rail shall be spliced per detail.
All exposed rail ends shall be capped per detail.
Provide 1-⅛" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
See sheet 10 of 15 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	86

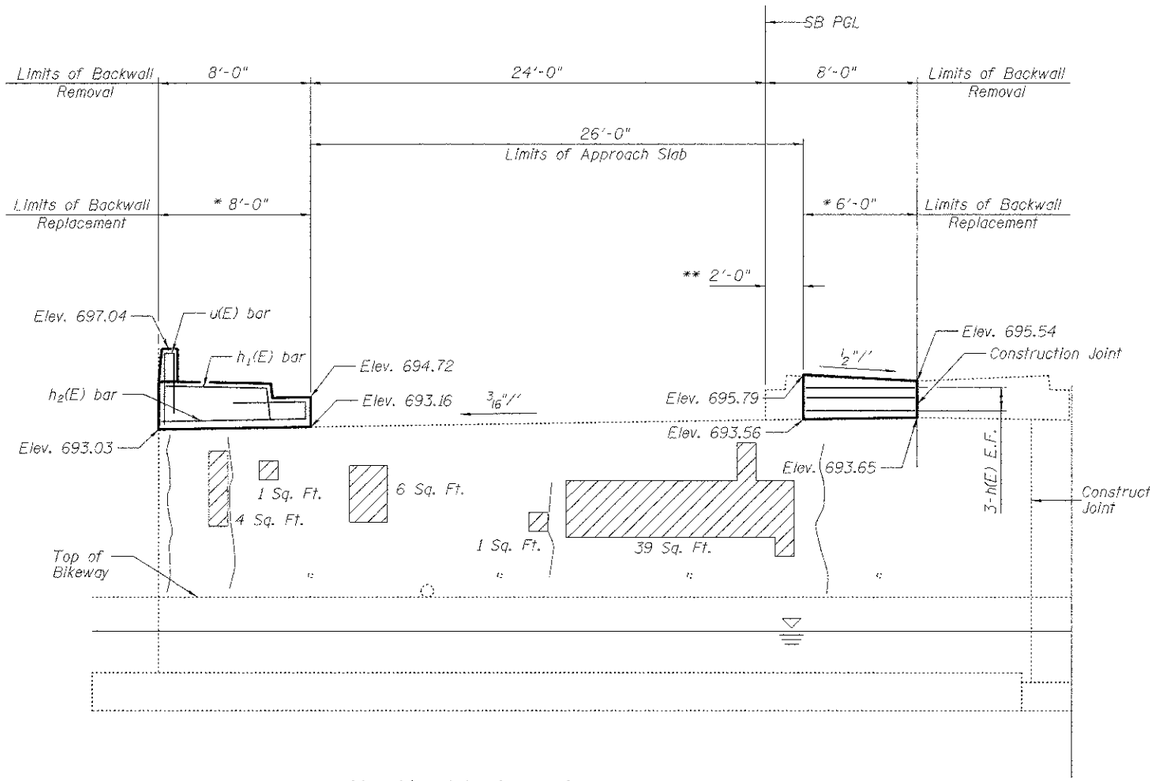
R-20 7-1-10 (7'-0" to 10'-0" Post spacing)

FILE NAME = 0493055-63531-318-Railing.dgn	USER NAME =	DESIGNED - KO	REVISED -
		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

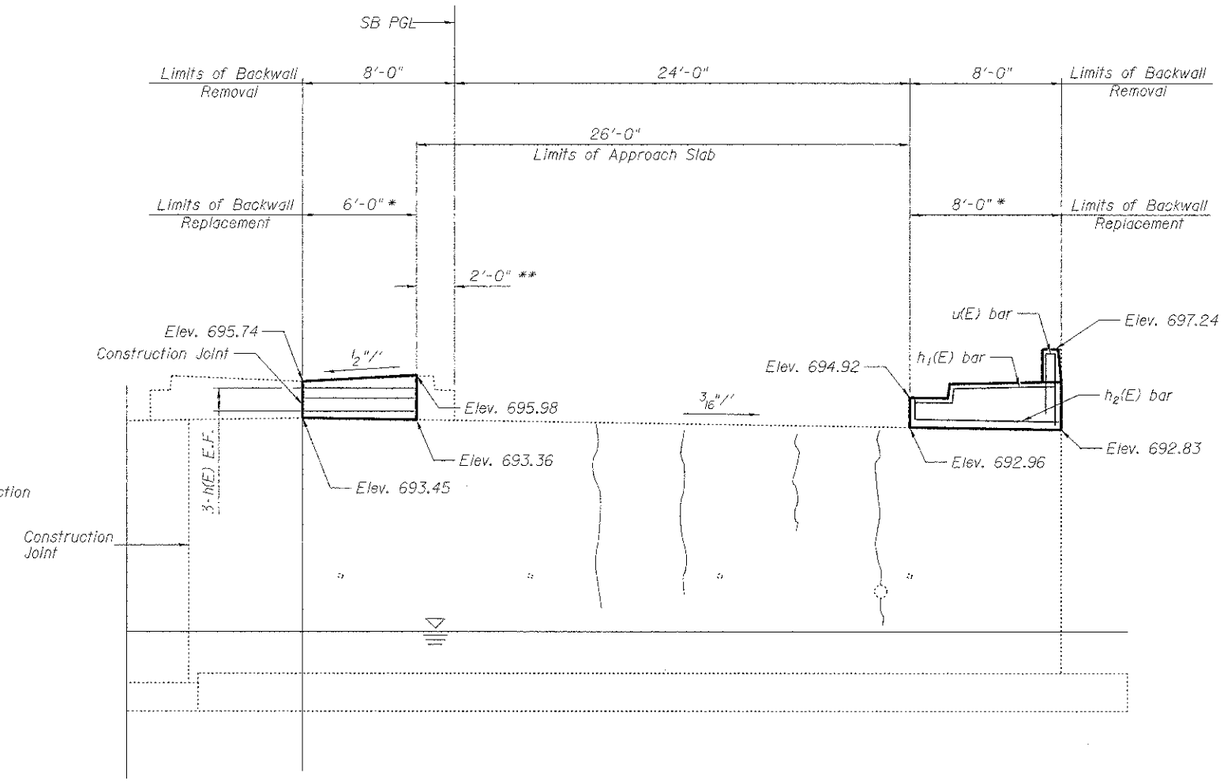
ALUMNINUM RAILING, TYPE L
STRUCTURE NO.
SHEET NO. 10 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	21
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		



North Abutment

(Looking North)



South Abutment

(Looking South)

Legend

~ - Epoxy Crack Injection

▨ - Structural Repair of Concrete (Depth Equal to or Less Than 5 Inhes)

Notes:
See sheet No. 12 of 15 for Reinforcement Bars details.

* Existing Vertical Bars to be Reused

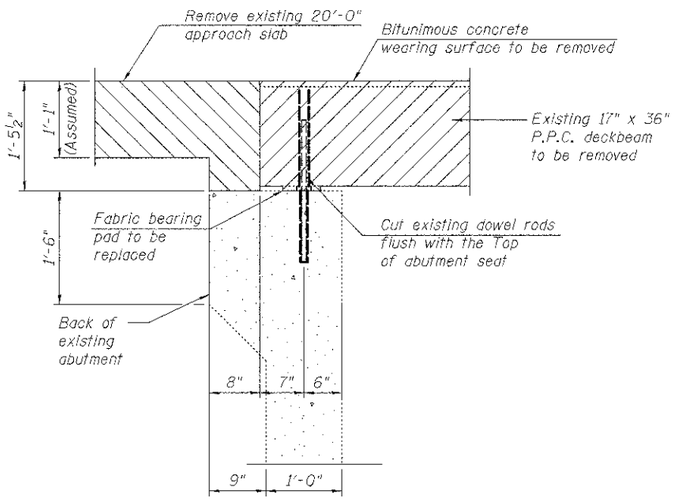
** Cut Existing Vertical Bars Flush with Top of Abutment Seat

BILL OF MATERIAL

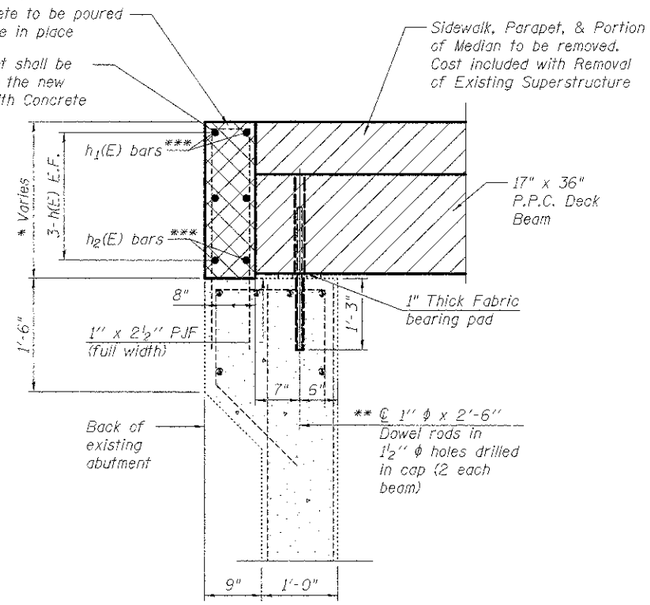
Item	Unit	Quantity
Epoxy Crack Injection	Foot	65
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	51

amec

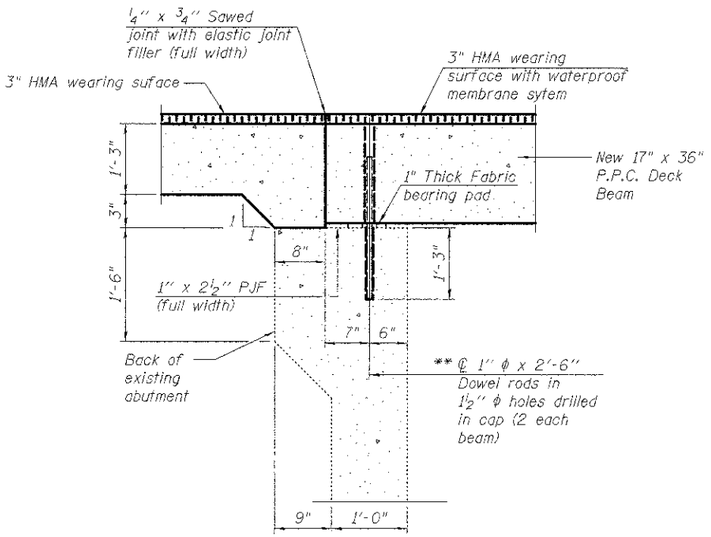
FILE NAME = 0493058-53531-011-AbutElev.dgn	USER NAME =	DESIGNED - KO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENT ELEVATIONS STRUCTURE NO. 049-3055	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - WPM	REVISED -			2626	05-00193-04-BR	LAKE	37	22
	PLOT SCALE =	DRAWN - KO	REVISED -					CONTRACT NO. 63713		
	PLOT DATE =	CHECKED - WPM	REVISED -		SHEET NO. 11 OF 15 SHEETS			ILLINOIS FED. AID PROJECT		



SECTION THRU ABUTMENT
(Typical at Approach Slab)



SECTION THRU ABUTMENT
(Typical at Sidewalk and Median)*



PROPOSED SECTION THRU ABUTMENT
(Typical at Approach Slab)

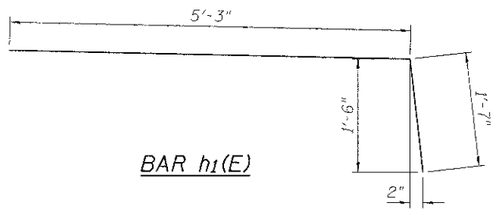
* See Elevations on Sheets 11 of 15.

** Existing Dowel Rods shall be cut flush with the top of abutment seat. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed.

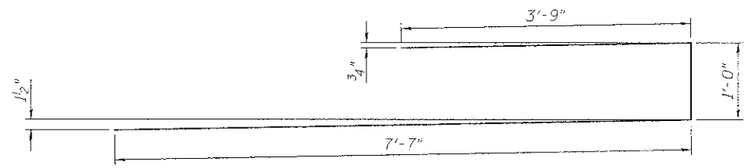
*** h(E) bars in backwall at Concrete Median
$h_1(E)$ and $h_2(E)$ bars in backwall at Sidewalk

TWO BACKWALL BILL OF MATERIAL

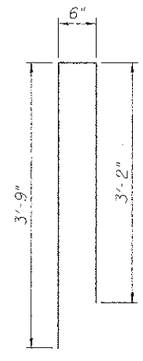
Bar	No.	Size	Length	Shape
h(E)	12	#5	5'-8"	
$h_1(E)$	4	#5	6'-10"	
$h_2(E)$	4	#5	12'-4"	
u(E)	4	#5	7'-5"	⊓
Concrete Structures			Cu. Yd.	1.7
Reinforcement Bars, Epoxy Coated			Pound	370



BAR $h_1(E)$



BAR $h_2(E)$



BAR u(E)

LEGEND:

- Limits of Approach Slab Removal
- Limits of Concrete removal
- Limits of Removal of Existing Superstructure

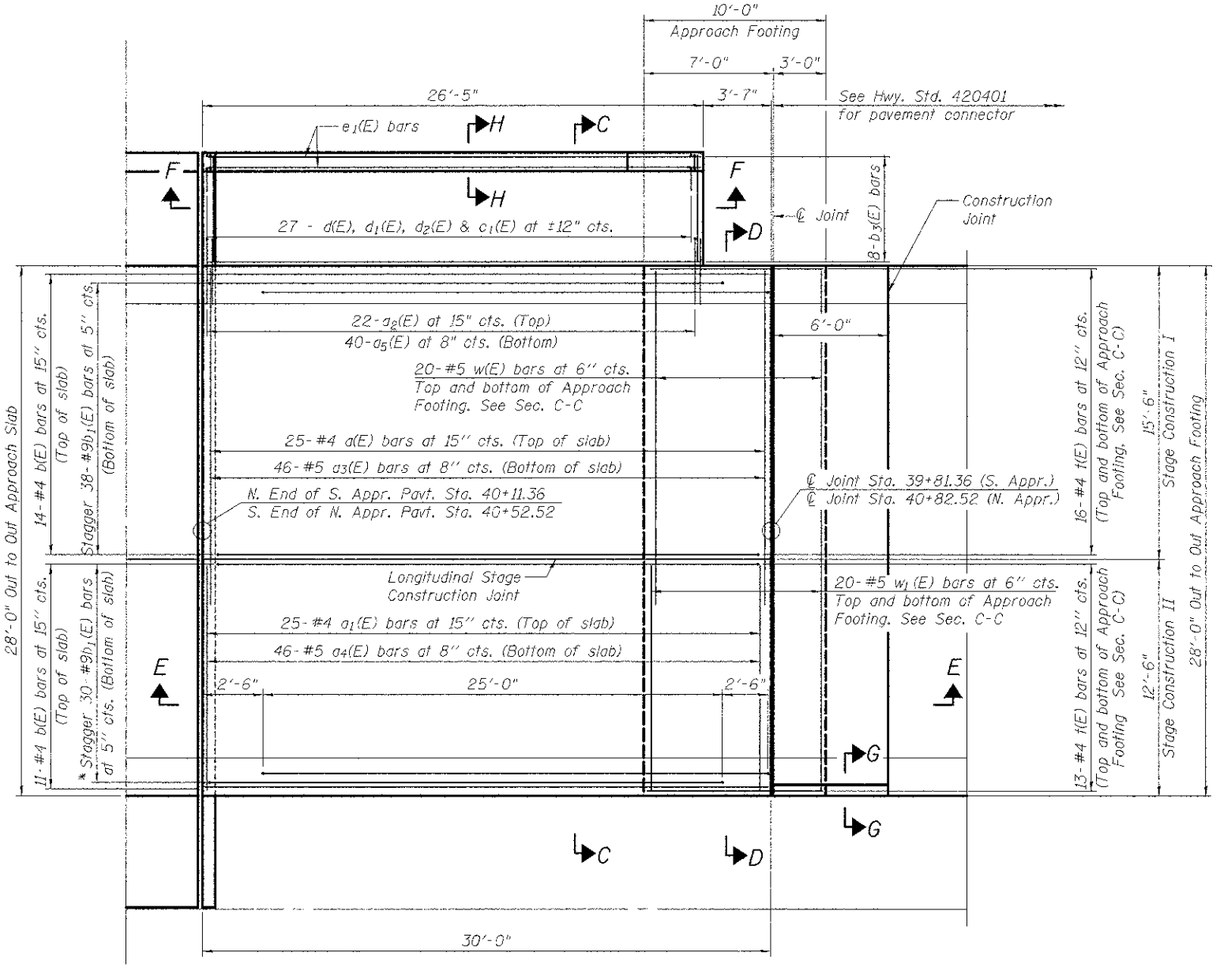
amec

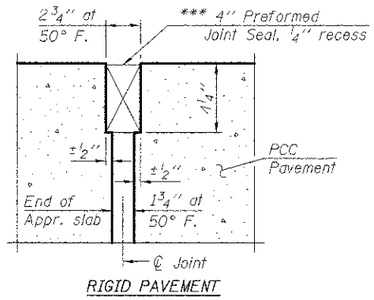
FILE NAME = 04934058-63531-012-AbutSection.dgn	USER NAME =	DESIGNED - JY	REVISED -
		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT SECTIONS
STRUCTURE NO. 049-3055
SHEET NO. 12 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	23
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			





RIGID PAVEMENT

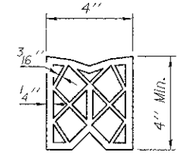
DETAIL A

Notes:
See sheet No. 14 of 15 for Sections C-C, D-D, E-E, and View F-F.
a(E) and a1(E) bar spacings measured along ℄ Rdwy.

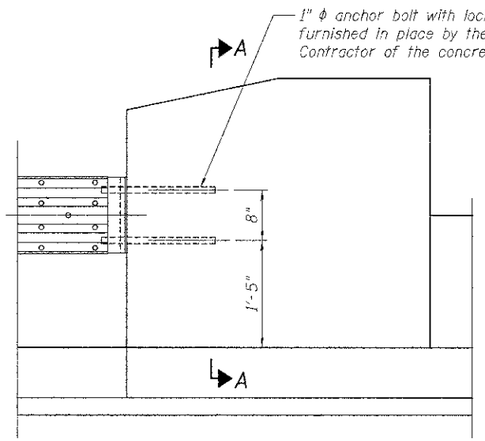
*** Cost included with Concrete Superstructure.

MINIMUM BAR LAP

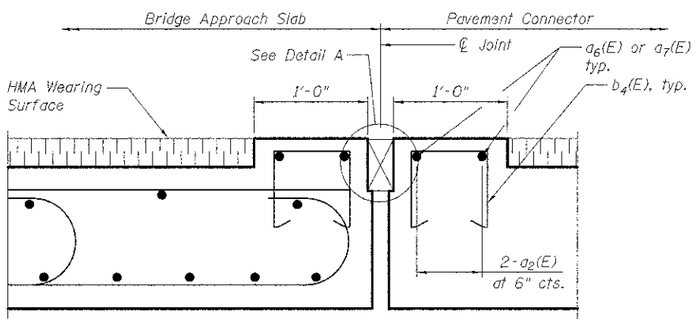
#4 bar = 2'-0"
#5 bar = 2'-6"
#6 bar = 3'-0"



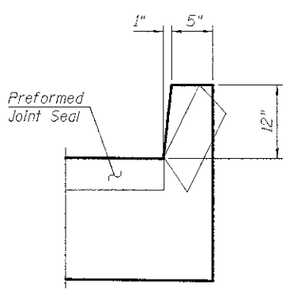
PREFORMED
JOINT SEAL



BARRIER TERMINAL CONNECTION
DETAIL

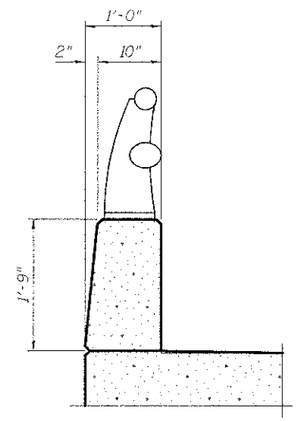


APPROACH SLAB & PAVEMENT
CONNECTOR DETAIL

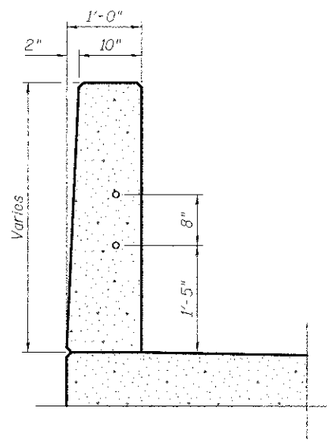


SECTION G-G

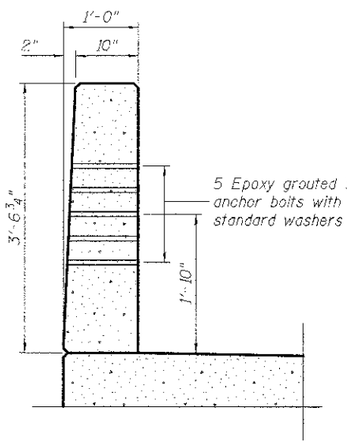
Angle Preformed Joint Seal at 45°
at curbs when req'd for drainage.



SECTION H-H



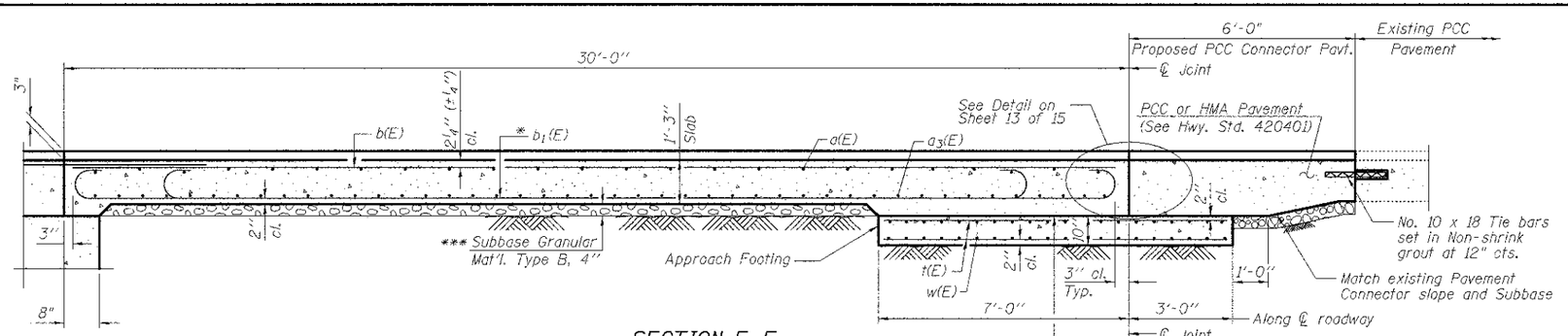
SECTION A-A



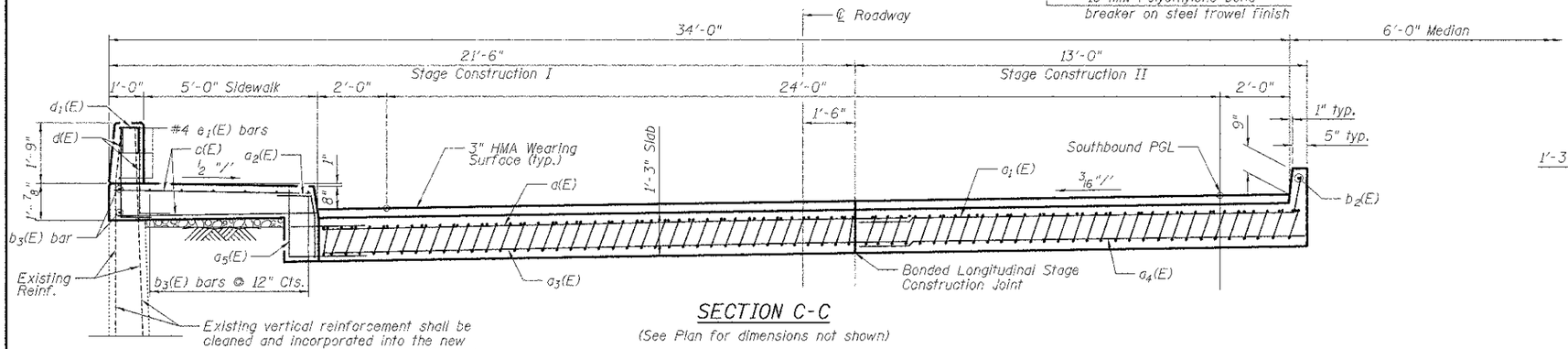
SECTION B-B

FILE NAME = 0493085-63531-013-ApprDetail1.dgn	USER NAME =	DESIGNED - KO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH SLAB DETAILS 1 STRUCTURE NO. 049-3055
		CHECKED - WPM	REVISED -		
	PLOT SCALE =	DRAWN - KO	REVISED -		
	PLOT DATE =	CHECKED - WPM	REVISED -		SHEET NO. 13 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	24
		CONTRACT NO. 63713		
ILLINOIS FED. AID PROJECT				

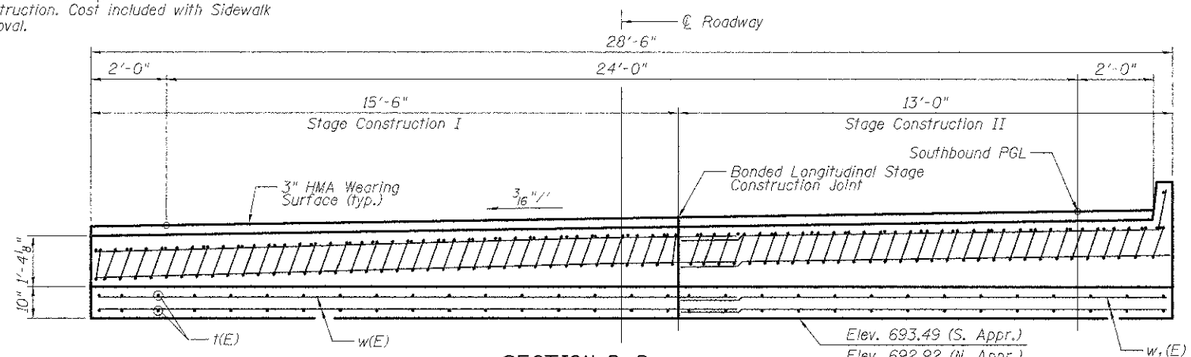


SECTION E-E



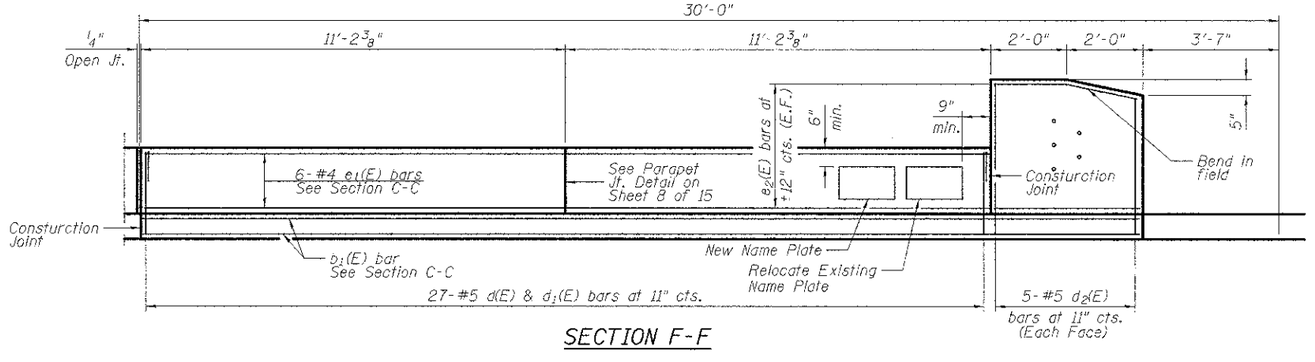
SECTION C-C

(See Plan for dimensions not shown)



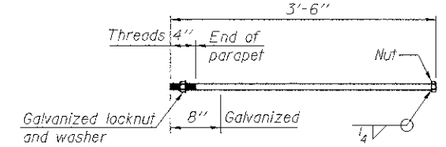
SECTION D-D

(See Plan for dimensions not shown)



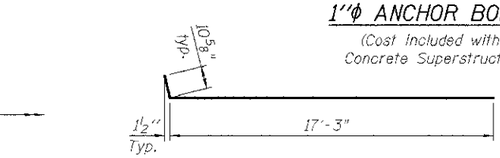
SECTION F-F

Notes:
See sheet No. 13 of 15 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
See IDOT Highway Standards for Type 5 and Type 6 Traffic Barrier Terminal Details.

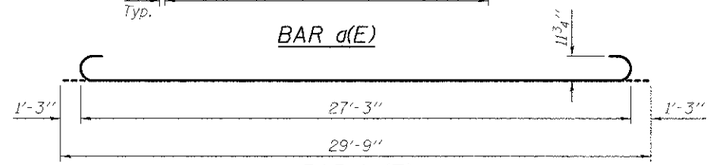


1"ϕ ANCHOR BOLT

(Cost included with Concrete Superstructure)



BAR a(E)

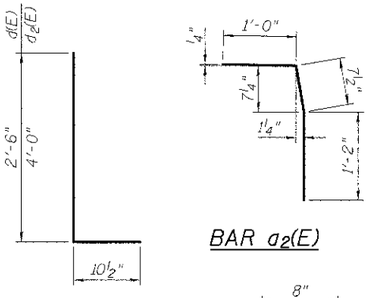


BAR b1(E)

* Tilt #9 b1(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

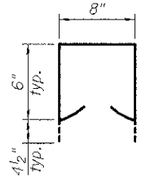
TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	50	#4	18'-1"	
a1(E)	50	#4	12'-4"	
a2(E)	44	#4	2'-2"	
a3(E)	92	#5	17'-10"	
a4(E)	92	#5	12'-4"	
a5(E)	80	#5	4'-2"	
a6(E)	8	#4	18'-1"	
a7(E)	8	#4	12'-4"	
b(E)	50	#4	29'-8"	
b1(E)	136	#9	29'-9"	
b2(E)	2	#4	29'-8"	
b3(E)	16	#4	26'-1"	
b4(E)	80	#4	2'-5"	
c(E)	108	#5	5'-7"	
d(E)	108	#6	3'-5"	
d1(E)	54	#4	2'-0"	
d2(E)	12	#6	4'-11"	
e1(E)	12	#4	26'-1"	
e2(E)	16	#4	3'-8"	
f(E)	116	#4	9'-8"	
w(E)	80	#5	17'-9"	
w1(E)	80	#5	12'-4"	
Concrete Superstructure			Cu. Yd.	95.5
Concrete Structures			Cu. Yd.	17.3
Protective Coat			Sq. Yd.	61
Name Plate			Each	1
Reinforcement Bars, Epoxy Coated			Pound	24,480
Relocating Name Plates			Each	1

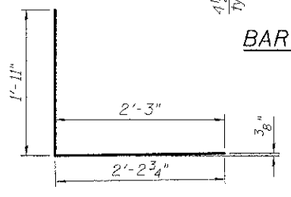


BAR d(E)

BAR a2(E)



BAR b4(E)



BAR a5(E)

amec

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		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS 2
STRUCTURE NO. 049-3055
SHEET NO. 14 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	25
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	39+81.36	-26	694.98
A1	39+91.36	-26	694.95
A2	40+01.36	-26	694.91
N. End of S. Appr. Pav't	40+11.36	-26	694.88
S. End of N. Appr. Pav't	40+52.52	-26	694.68
A3	40+62.52	-26	694.61
A4	40+72.52	-26	694.54
N. End of N. Appr. Pav't	40+82.52	-26	694.46

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	39+81.36	-24	695.01
A1	39+91.36	-24	694.98
A2	40+01.36	-24	694.95
N. End of S. Appr. Pav't	40+11.36	-24	694.92
S. End of N. Appr. Pav't	40+52.52	-24	694.72
A3	40+62.52	-24	694.64
A4	40+72.52	-24	694.57
N. End of N. Appr. Pav't	40+82.52	-24	694.49

LONGITUDINAL STAGE CONST. JT.

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	39+81.36	-10.5	695.22
A1	39+91.36	-10.5	695.19
A2	40+01.36	-10.5	695.16
N. End of S. Appr. Pav't	40+11.36	-10.5	695.13
S. End of N. Appr. Pav't	40+52.52	-10.5	694.93
A3	40+62.52	-10.5	694.85
A4	40+72.52	-10.5	694.78
N. End of N. Appr. Pav't	40+82.52	-10.5	694.70

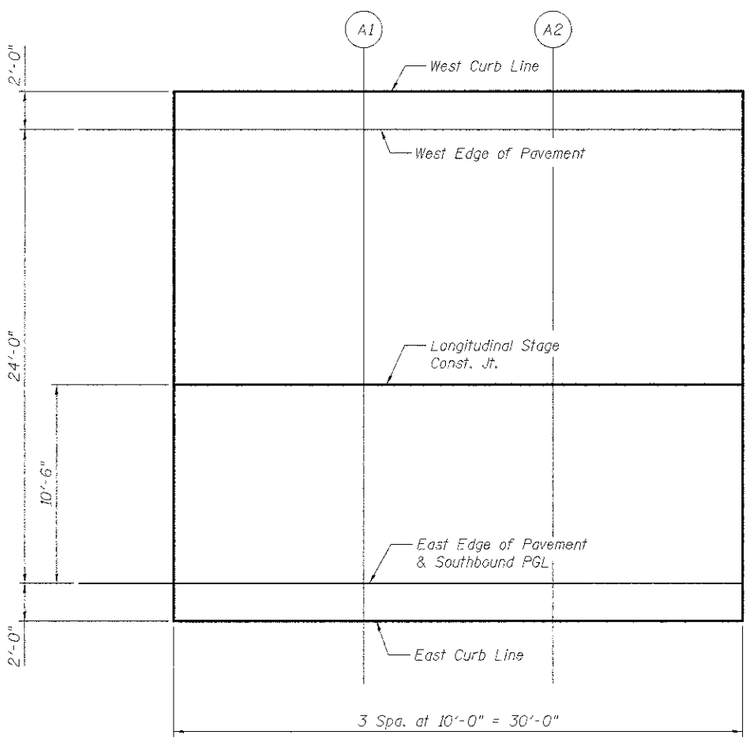
Note:
Theoretical Grade Elevations provided are measured from the top of the HMA Wearing Surface.

EAST EDGE OF PAVEMENT & SB PROFILE GRADE

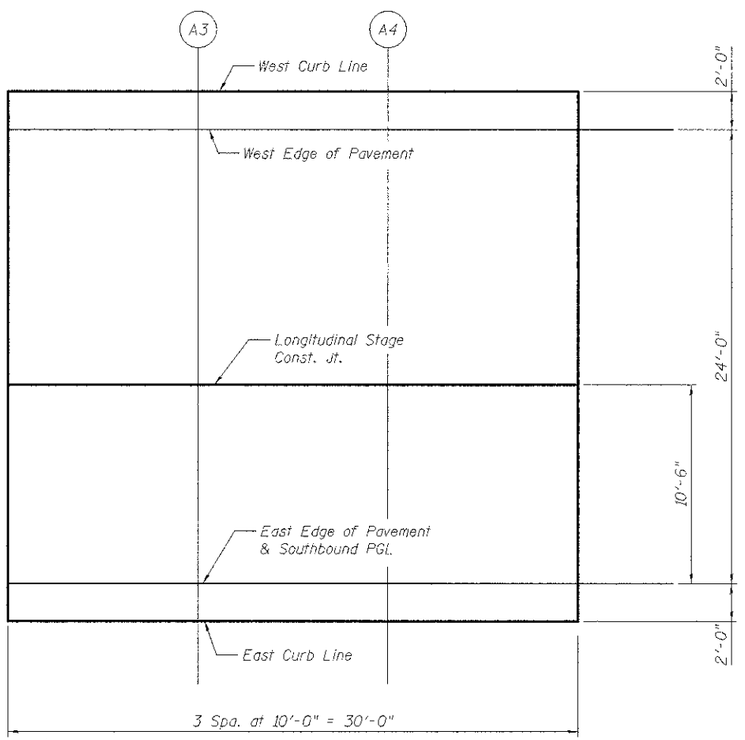
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	39+81.36	0	695.38
A1	39+91.36	0	695.35
A2	40+01.36	0	695.32
N. End of S. Appr. Pav't	40+11.36	0	695.29
S. End of N. Appr. Pav't	40+52.52	0	695.09
A3	40+62.52	0	695.02
A4	40+72.52	0	694.94
N. End of N. Appr. Pav't	40+82.52	0	694.87

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	39+81.36	2	695.41
A1	39+91.36	2	695.38
A2	40+01.36	2	695.35
N. End of S. Appr. Pav't	40+11.36	2	695.32
S. End of N. Appr. Pav't	40+52.52	2	695.12
A3	40+62.52	2	695.05
A4	40+72.52	2	694.97
N. End of N. Appr. Pav't	40+82.52	2	694.90



PLAN
South Approach Slab



PLAN
North Approach Slab

amec

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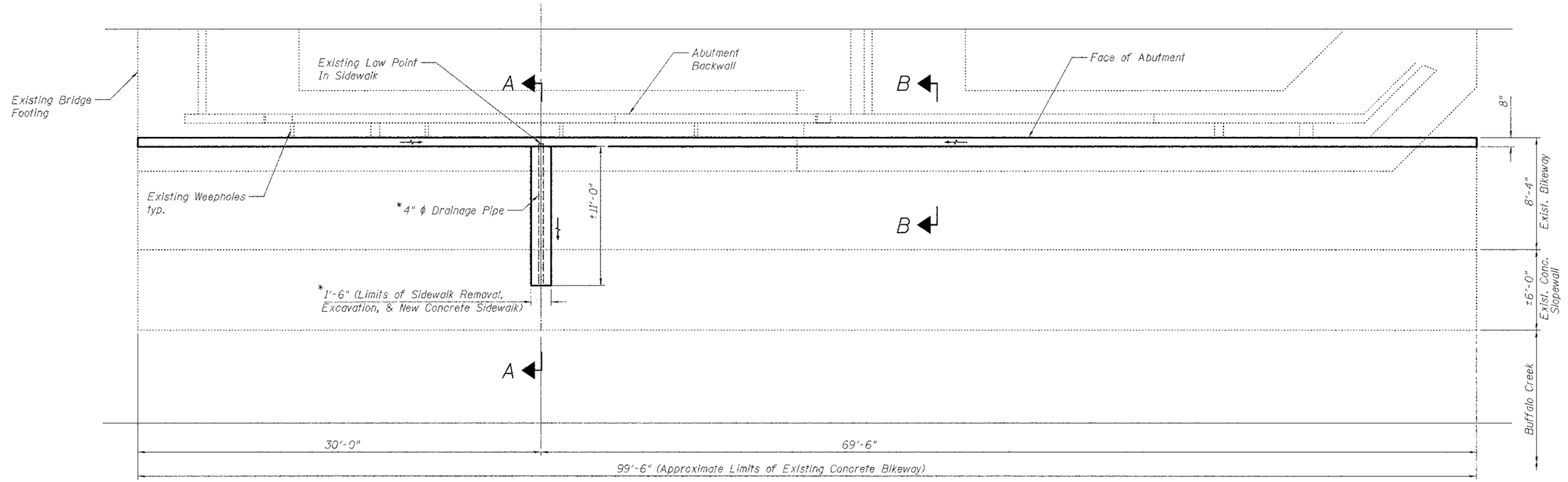
	PLOT DATE =	CHECKED - WPM	REVISED -

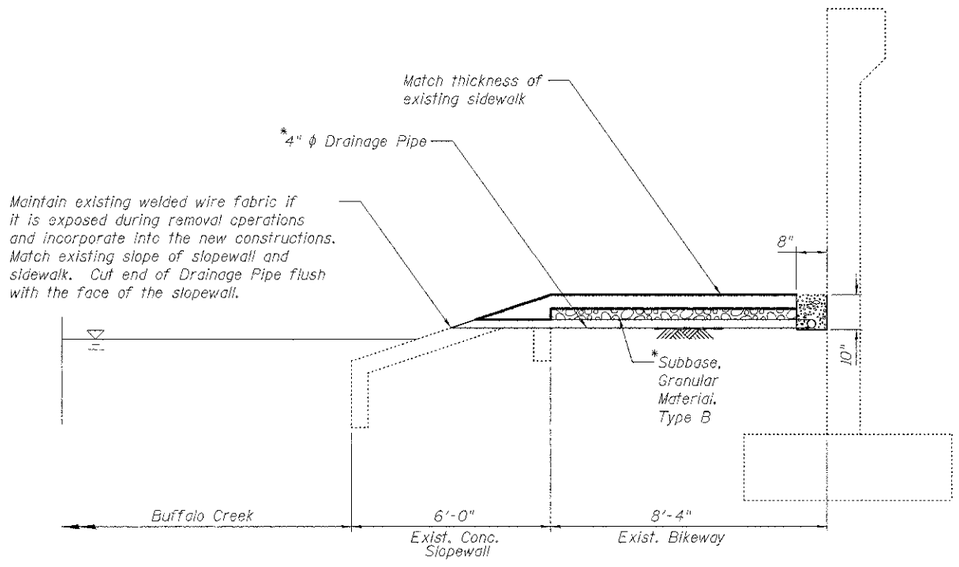
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 049-3055
SHEET NO. 15 OF 15 SHEETS

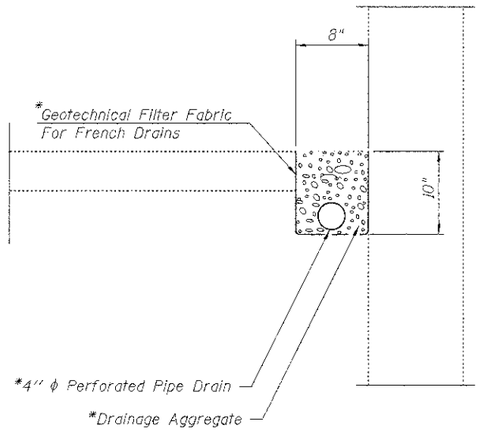
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	26
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



PLAN



SECTION A-A
Not To Scale



SECTION B-B
Not To Scale

Notes:
Bridge Superstructure is not shown for clarity.

BILL OF MATERIAL

Item	Unit	Quantity
Trench Drain	Each	1

* Cost included in Trench Drain

amec

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		CHECKED - WPM	REVISED -
	PLOT SCALE =	DRAWN - KO	REVISED -
	PLOT DATE =	CHECKED - WPM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRENCH DRAIN DETAIL

SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	05-00193-04-BR	LAKE	37	27
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS

GENERAL NOTE:

This Standard is used where at anytime, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an urban area.

DESIGN NOTES:

1. All warning signs shall have minimum dimensions of 48" x 48".
2. All signs not on the traveled way shall be post mounted if the closure time exceeds four calendar days. All signs shall be posted with the bottom of the sign not less than 7' above the edge of pavement. "NO PARKING" signs shall be installed throughout the work area at the discretion of the Engineer.
3. The distance "L" shall be defined as:

SPEED	FORMULA
≤ 40 MPH	$L = (WS^2)/60$
≥ 45 MPH	$L = LW \times S$

W = Width of Closure in FEET
S = Normal Posted Speed Limit in MPH
LW = Lane Width in FEET

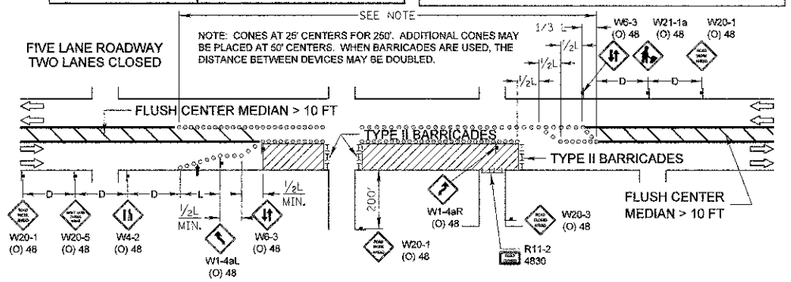
4. Type II barricades with Type C steady burning lights shall be used in lieu of cones for night operations. All cones and barricades shall be in accordance with IDOT Standard 701901.
5. Type A flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series and the high level warning devices.
6. If the work operation is performed between 9:00 am and 3:00 pm and the work does not exceed 15 minutes, the traffic protection shall be as shown for IDOT Standard 701301. Signs, when required, shall be at the spacing specified in the Advance Warning Sign Spacing Table.
7. If the work area is in the parking lane and the parking exists during work hours, a "ROAD WORK AHEAD" sign shall be installed in advance of work area at the spacing specified in the Advance Warning Sign Spacing Table and the area protected with cones or barricades.
8. Longitudinal dimensions may be adjusted to fit field conditions.
9. Form BT 725 is required.

ADVANCE WARNING SIGN SPACING TABLE	
POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

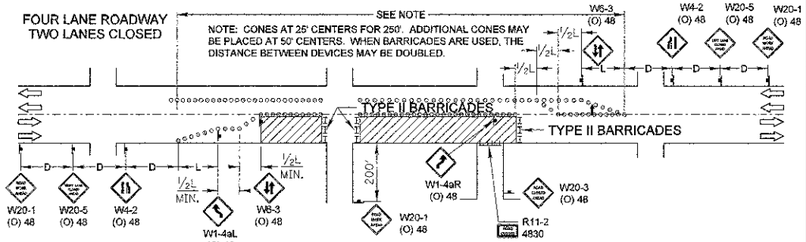
SYMBOLS

- WORK AREA
- CONE OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- TYPE II BARRICADE
- TYPE III BARRICADE

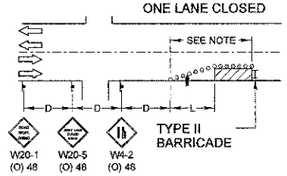
FIVE LANE ROADWAY
TWO LANES CLOSED



FOUR LANE ROADWAY
TWO LANES CLOSED



MULTILANE ROADWAY
ONE LANE CLOSED



NOT TO SCALE

MODIFIED STANDARD 701606-06

REVISIONS	DATE
Revised IDOT Reference	2/1/08
Title Block Revision	8/1/09
Reformat LCDOT Standard	7/15/10

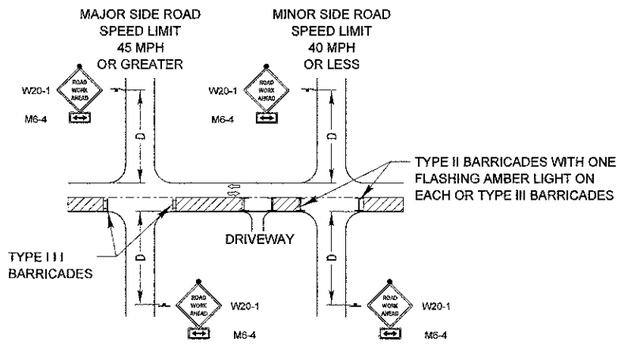
LakeCounty Division of Transportation

APPROVED BY: ANTHONY KHAWAJA
DATE: APRIL 1, 2007

URBAN LANE CLOSURE
MULTILANE, TWO WAY,
with MOUNTABLE MEDIAN

LC7002

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS



SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE W/TYPE A FLASHING LIGHT
- TYPE III BARRICADE

ADVANCE WARNING SIGN SPACING TABLE	
POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

GENERAL NOTE:

This Standard is used where at anytime, day or night, any vehicle, equipment, workers or their activities encroach on the pavement or where construction requires lane closures.

DESIGN NOTES:

1. For a side road with a speed limit of 40 mph or less, the closed portion of the main route shall be protected by blocking with Type II or Type III barricades, ½ of the cross section of the closed portion of the roadway.
2. For a side road with a speed limit of 45 mph or greater, the closed portion of the main route shall be protected by blocking with Type III barricades, ½ of the cross section of the closed portion of the roadway.
3. All W20-1 "ROADWORK AHEAD" signs shall be 48" x 48" with fluorescent orange reflective sheeting with an amber Type A flashing light mounted on the sign.
4. When the side road lies between the beginning of the mainline signing and the work zone, a M6-1 Single Headed Arrow shall be used in lieu of the M6-4 Double Headed Arrow.
5. For a lane closure on a side road or driveway, use the applicable portions of the appropriate Highway Standard or Traffic Control Detail. The spacing of the signs and barricades shall be adjusted for field conditions as directed by the engineer. The directional arrow shall be covered or removed when no longer consistent with the side road lane closure.
6. Advance warning signs shall be omitted on driveways unless otherwise noted.
7. The traffic control and protection for side roads and intersections shall be included in the contract unit lump sum price for "TRAFFIC CONTROL AND PROTECTION."

MODIFIED IDOT DISTRICT ONE
SIDE ROAD DETAIL

NOT TO SCALE

REVISIONS	DATE
Title Block Revision	8/1/09
Reformat LCDOT Standard	7/15/10

LakeCounty Division of Transportation

APPROVED BY: ANTHONY KHAWAJA
DATE: APRIL 1, 2007

TRAFFIC CONTROL and PROTECTION
for SIDEROADS, INTERSECTIONS
and DRIVEWAYS

LC7004

FILE NAME = LC1143-sht-detail01.dgn	USER NAME = 3202111143	DESIGNED - TC	REVISED -	
		DRAWN - LOM	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED - PK	REVISED -	
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -	

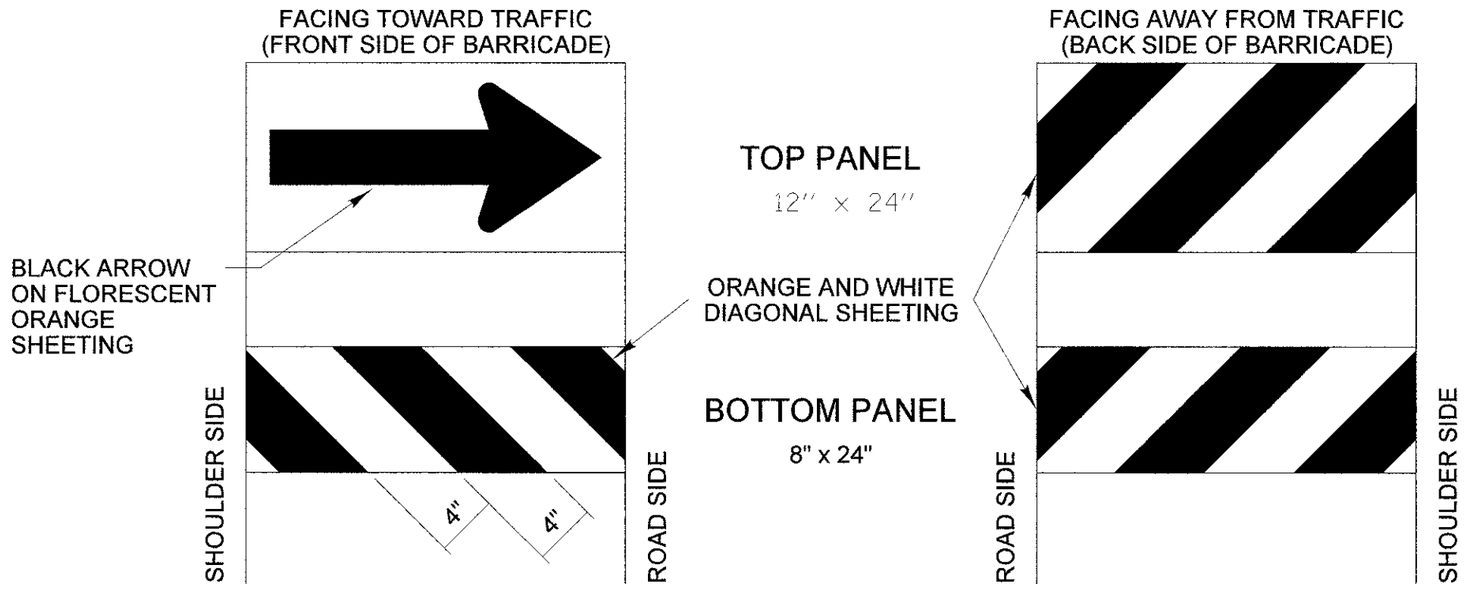
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

URBAN LANE CLOSURE MULTILANE, TWO WAY, WITH MOUNTABLE MEDIAN
TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

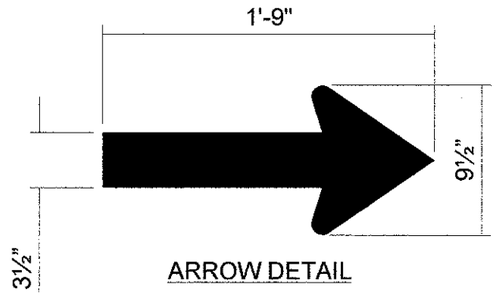
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	28
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

DIRECTION INDICATOR BARRICADES



GENERAL NOTES

1) Direction Indicator Barricades shall be constructed from non-metallic Type II barricades meeting the requirements of Article 1106.02 of the Standard Specifications, except where modified by this detail.
2) The Direction Indicator Barricades shall be equipped with Type C steady burning lights if used to channelize traffic during the hours of darkness.
3) The reflective sheeting for the top panel shall be Type AZ fluorescent orange. The diagonal panels shall have orange and white Type A or better reflective sheeting.



ARROW DETAIL

REVISIONS	DATE
Text Update	7/15/11

LakeCounty Division of Transportation

APPROVED BY: ANTHONY KHAWAJA
DATE: APRIL 1, 2007

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE

DIRECTION INDICATOR BARRICADES

LC7200

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		DRAWN - LOM	REVISED -
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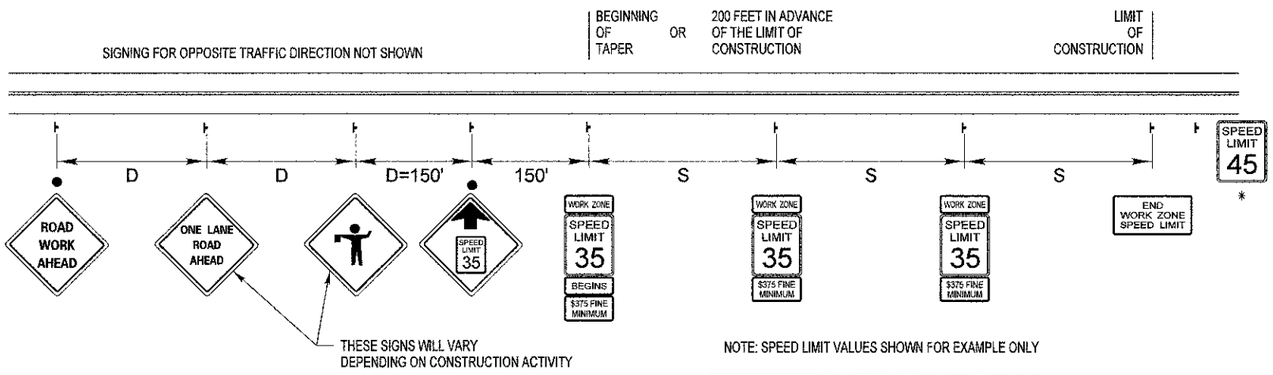
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIRECTION INDICATOR BARRICADES

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	29
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



NOTE: SPEED LIMIT VALUES SHOWN FOR EXAMPLE ONLY

ADVANCE WARNING SIGN SPACING TABLE	
ROAD TYPE (EXISTING SPEED LIMIT)	DISTANCE BETWEEN SIGNS "D"
URBAN-LOW SPEED (40 MPH or less)	200 FEET
URBAN-HIGH SPEED (45-50 MPH)	350 FEET
RURAL (55 MPH or greater)	500 FEET

WORK ZONE SPEED LIMIT SIGN SPACING	
WORK ZONE SPEED LIMIT	DISTANCE BETWEEN SIGNS "S"
35 TO 40 MPH	990 FEET to 1,980 FEET
45 TO 50 MPH	1,320 FEET to 2,640 FEET

NOTES:

1. * = EXISTING SPEED LIMIT BEFORE CONSTRUCTION.
2. THE SIGN SPACING BETWEEN WORK ZONE SPEED LIMIT SIGNS SHALL BE THE SAME AS COMPARABLE REGULAR SPEED LIMIT SIGNING AS STATED IN THE L.C.D.O.T. POLICY FOR THE ESTABLISHMENT AND POSTING OF SPEED LIMITS ON COUNTY AND TOWNSHIP HIGHWAYS WITHIN LAKE COUNTY, ILLINOIS. A MINIMUM OF 2 WORK ZONE SPEED LIMIT SIGNS SHALL BE REQUIRED PER DIRECTION OF TRAFFIC.
3. EXISTING SPEED LIMIT SIGNS AND POST SHALL BE REMOVED AND RETURNED TO THE L.C.D.O.T.'S SIGN SHOP WITHIN 24 HOURS OF REMOVAL.
4. ON MULTILANE HIGHWAYS, WORK ZONE SPEED LIMIT AND ADVANCE CONSTRUCTION SIGNING SHALL BE ON THE RIGHT SIDE RIGHT-OF-WAY AND THE LEFT MEDIAN, WHEN THE MEDIAN IS NOT PAVED AND THE WIDTH IS 10 FEET OR GREATER.
5. ALL SIGNS SHALL BE PERMANENTLY POST MOUNTED IF THE SIGNS WILL BE DISPLAYED FOR MORE THAN 48 HOURS.

REVISIONS	DATE
Reformat LCDOT Standard	7/15/10

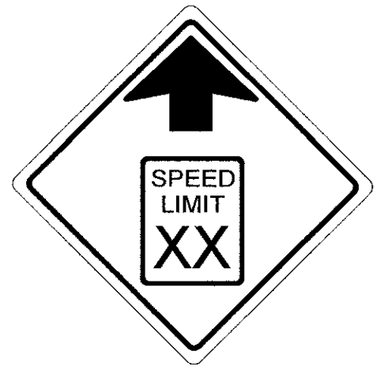
LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: 4/14/09

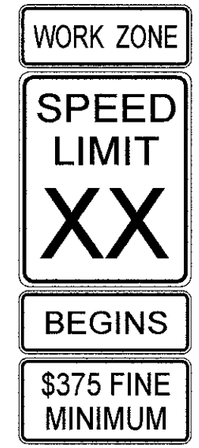
WORK ZONE SPEED LIMIT SIGNING DIAGRAM
(SHEET 1 OF 2)

LC7203

WORK ZONE SPEED LIMIT SIGNS



W3-5 (O) - 48

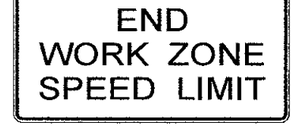


W2-I 115 (O) 3015

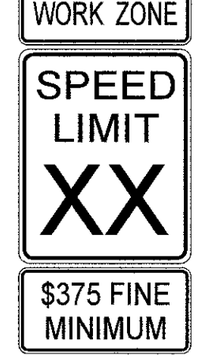
R2-1 3036

W2-I 113 (O) 3011

R2-I 106 3015



G20-I 102, 24"X48"



W2-I 115 (O) 3015

R2-1 3036

R2-I 106 3015

R2-1 SPECIAL

REVISIONS	DATE
Reformat LCDOT Standard	7/15/10

LakeCounty Division of Transportation

APPROVED BY: A.KHAWAJA
DATE: 4/14/09

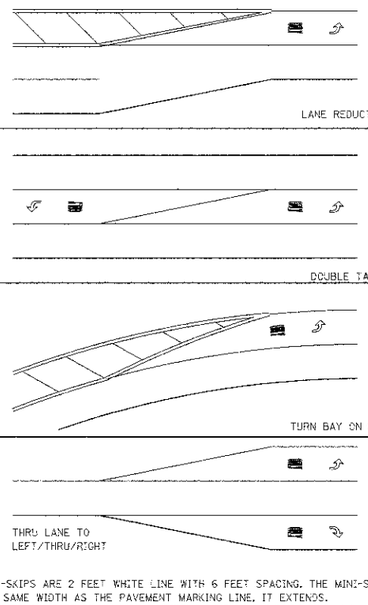
WORK ZONE SPEED LIMIT SIGNING DIAGRAM
(SHEET 2 OF 2)

LC7203

FILE NAME = LC1143-sht-detail03.dgn	USER NAME = 3202111143	DESIGNED - TC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WORK ZONE SPEED LIMIT SIGNING DIAGRAM	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LOM	REVISED -			2526	10-00193-07-BR	LAKE	37	30
	PLOT SCALE = 1.0000 ' / in.	CHECKED - PK	REVISED -					CONTRACT NO. 63713		
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -		SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A			ILLINOIS FED. AID PROJECT		

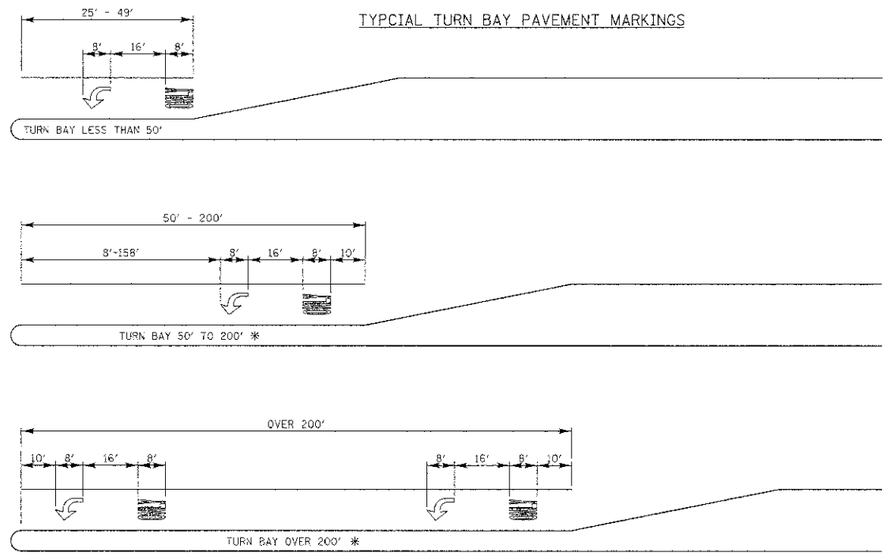
TYPICAL PAVEMENT MARKINGS

TYPICAL MINI-SKIP PAVEMENT MARKINGS



MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

TYPCIAL TURN BAY PAVEMENT MARKINGS



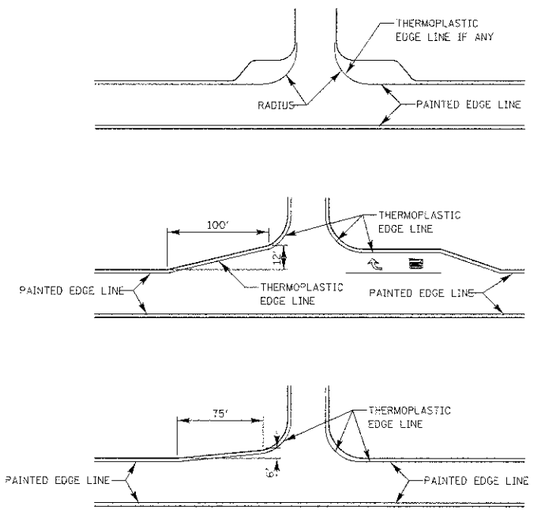
AREA = 15.6 SQ. FT.

AREA = 20.8 SQ FT.

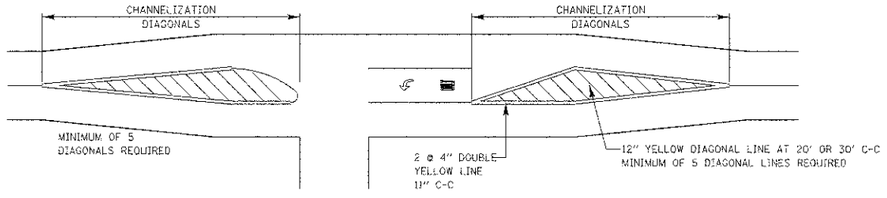
* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

FULL SIZE LETTERS (8') AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

EDGE LINE RADII AT SIDE STREETS



TWO LANE ROAD

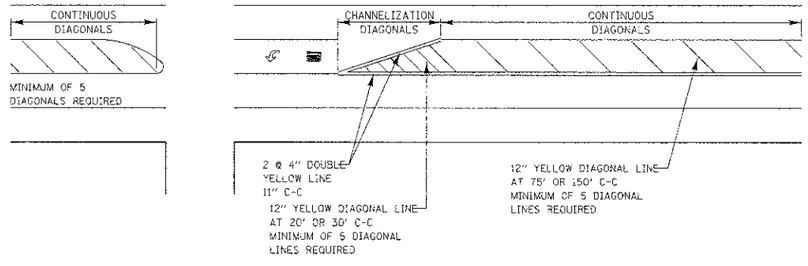


TYPICAL DIAGONAL SPACING

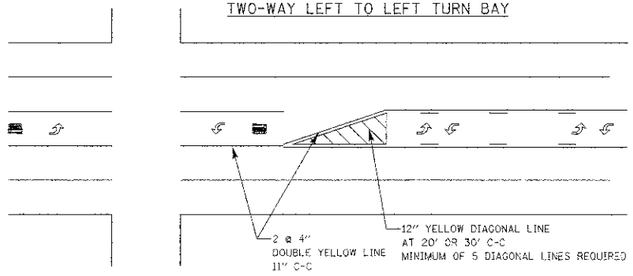
DIAGONAL SPACING

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

3 TO 5 LANE ROAD



TWO-WAY LEFT TO LEFT TURN BAY



DUAL LEFT TURN ARROWS

31.2 SQ. FT. MINIMUM
OF 2 SETS REQUIRED

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

REVISIONS	DATE
Separated Railroad Sheet	6/2/2008

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 1 OF 2

LC7800

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
				DSGNR/LIAISON:	
		/ /		PLOTTED BY:	@USRN@ @@DAT@@@@

FILE NAME: P:\Transp\3202111143\4.0 Project Deliverables\4.3 Drawings\LC1143-sht-detail04.dgn

LakeCounty Division of Transportation

LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX

FILE NAME =	USER NAME = 3202111143	DESIGNED - TC	REVISED -
LC1143-sht-detail04.dgn		DRAWN - LOM	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - PK	REVISED -
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

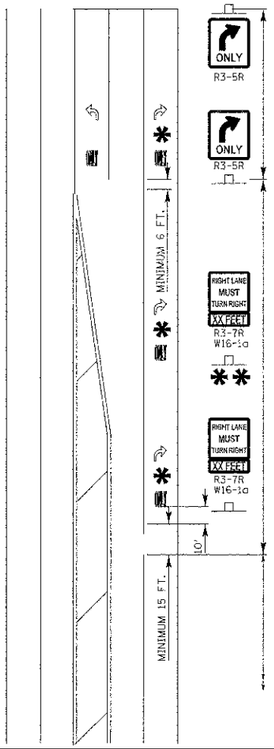
TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	31
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS

THRU LANE TO TURN LANE CONVERSION



TURN BAY
6" WHITE LINE
(ADDITIONAL PAV'T MARKINGS AS SHOWN ON SHEET ONE OF THE L.C.D.O.T. PAV'T MARKINGS DETAIL SHEETS)

TRANSITION ZONE
6" WHITE 3'/12' SKIP DASH LANE LINE

MINIMUM TRANSITION ZONE LENGTH

POSTED SPEED	LENGTH
25 M.P.H.	255 FT.
30 M.P.H.	330 FT.
35 M.P.H.	405 FT.
40 M.P.H.	480 FT.
45 M.P.H.	555 FT.
50 M.P.H.	630 FT.
55 M.P.H.	705 FT.

THRU LANE
4" WHITE 10'/30' SKIP DASH LANE LINE

* LOCATION OF PAV'T MARKINGS
(MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT., 260 FT.
30 M.P.H.	10 FT., 170 FT., 340 FT.
35 M.P.H.	10 FT., 210 FT., 410 FT.
40 M.P.H.	10 FT., 170FT., 330 FT., 490 FT.
45 M.P.H.	10 FT., 190 FT., 370 FT., 560 FT.
50 M.P.H.	10 FT., 170 FT., 330 FT., 490 FT., 640 FT.
55 M.P.H.	10 FT., 180 FT., 350 FT., 520 FT., 710 FT.

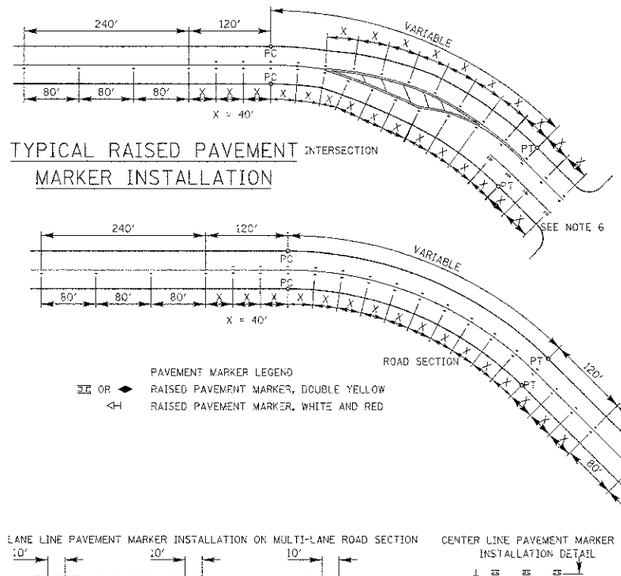
FOR POSTED SPEEDS 40 M.P.H. OR GREATER A SECOND R3-7/W16-1a SIGN INSTALLATION SHALL BE LOCATED HALFWAY BETWEEN THE BEGINNING OF THE TRANSITION ZONE AND THE BEGINNING OF THE TURN LANE

PAVEMENT MARKING GUIDELINES

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION / FOR BOTH DIRECTIONS	4 IN. / 2 @ 4 IN.	SOLID / SOLID	YELLOW / YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE (11 IN. C-C IF SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTERLANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE / 4 IN. YELLOW	SOLID	WHITE - RIGHT / YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ.FT. STRAIGHT ARROW 11.5 SQ.FT. ONLY 20.8 SQ.FT. COMB. ARROW 26.0 SQ.FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION / 8 FT. LEFT ARROW	SKIP-DASH AND SOLID / IN PAIRS	YELLOW / WHITE	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE / SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. WITH 11 IN. DIAGONALS @ 45° NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW - 2-WAY TRAFFIC / WHITE - 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE I.D.O.T. STD. 780001 SQ.FT. AREA OF: "R" = 36 SQ.FT. / "R" "X" = 54.0 SQ.FT.
SHOULDER DIAGONALS	12 IN. @ 45°	SOLID	WHITE - RIGHT / YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND I.D.O.T. HIGHWAY STANDARD 780001 EFFECTIVE JAN. 1, 1998.

TYPICAL RAISED PAVEMENT MARKER INSTALLATION

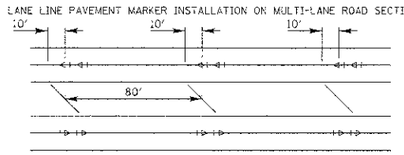


INTERSECTION

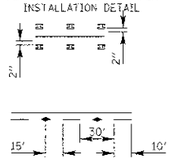
PAVEMENT MARKER LEGEND
- ◆ OR ◆ RAISED PAVEMENT MARKER, DOUBLE YELLOW
- ◁ RAISED PAVEMENT MARKER, WHITE AND RED

NOTES:
1. CENTERLINE RAISED PAVEMENT MARKERS (RPM's) SHALL BE PLACED ON ALL CURVES OVER 3 1/2 DEGREES ON ALL TWO AND THREE LANE HIGHWAYS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER..
2. SPACING = 40' FOR CENTERLINE MARKERS.
3. ALL RPM's ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
4. MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.H.W.A. MEMORANDUM HIO-21.
5. MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
6. RPM's WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
7. A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
8. RPM's INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM's SHALL BE INSTALLED IN PAIRS AND SHALL BE 80' CENTER TO CENTER. SPACING WITHIN EACH PAIR SHALL BE 10', CENTERED WITHIN THE 30' SKIP.

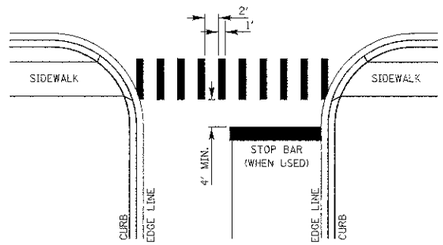
LANE LINE PAVEMENT MARKER INSTALLATION ON MULTI-LANE ROAD SECTION



CENTER LINE PAVEMENT MARKER INSTALLATION DETAIL

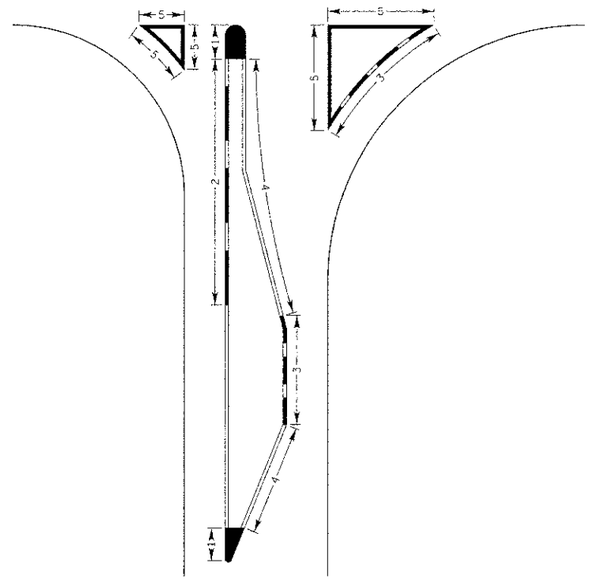


CROSSWALKS



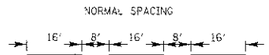
1. WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8'.
2. THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING

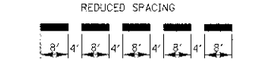


NOTES:
1. PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

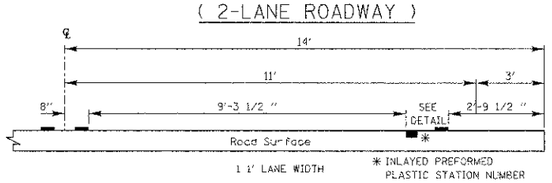
NORMAL SPACING

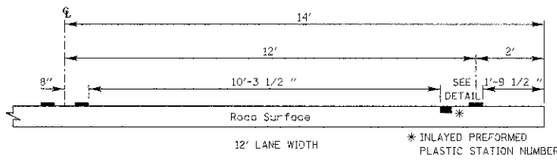


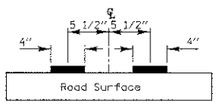
REDUCED SPACING



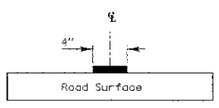
PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS
(2-LANE ROADWAY)







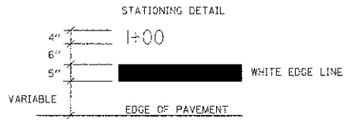
DOUBLE STRIPE CENTERLINE DETAIL



SINGLE STRIPE CENTERLINE DETAIL

Note:
Centerline markings are 4" lines at 11" centers.

STATIONING DETAIL



REVISIONS	DATE
Seperated Railroad Sheet	6/2/2005

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 2 OF 2

LC7800

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	$USRN$ $$DAT$$$$

LakeCounty Division of Transportation

LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX

FILE NAME: P:\Transp\32021111143\4.0 Project Deliverables\4.3 Drawings\LC1143-sht-detail05.dgn

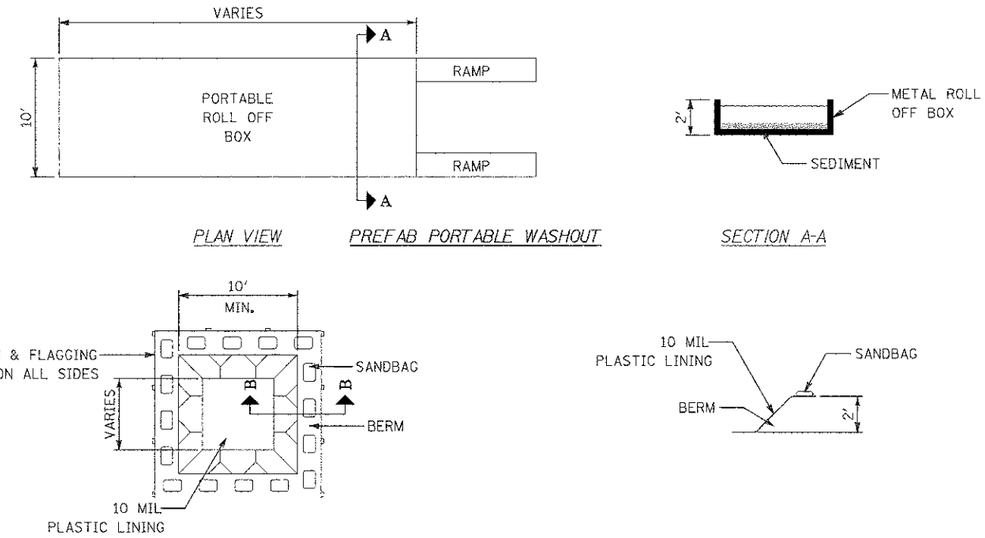
FILE NAME = LC1143-sht-detail05.dgn	USER NAME = 32021111143	DESIGNED - TC	REVISED -
		DRAWN - LOM	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - PK	REVISED -
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	32
		CONTRACT NO. 63713		
	ILLINOIS FED. AID PROJECT			



PLAN VIEW

PREFAB PORTABLE WASHOUT

SECTION A-A

PLAN VIEW

BELOW GRADE

SECTION B-B

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

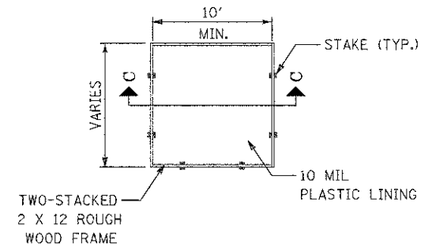
REVISIONS	DATE

LakeCounty Division of Transportation

APPROVED BY: MGZ
DATE: March 17, 2008

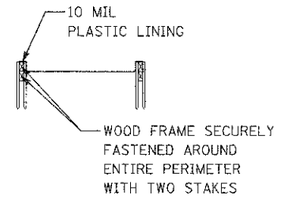
CONCRETE WASHOUT FACILITIES
SHEET 1 OF 2

LC4202

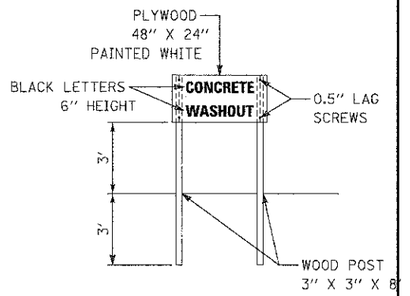


PLAN VIEW

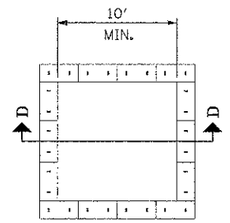
ABOVE GRADE



SECTION C-C

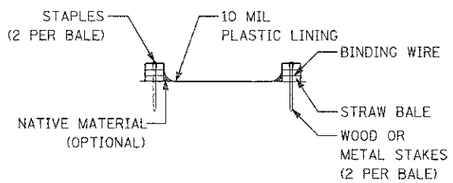


CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

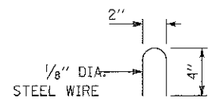


PLAN VIEW

ABOVE GRADE WITH STRAW BALES



SECTION D-D



STAPLE DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE

LakeCounty Division of Transportation

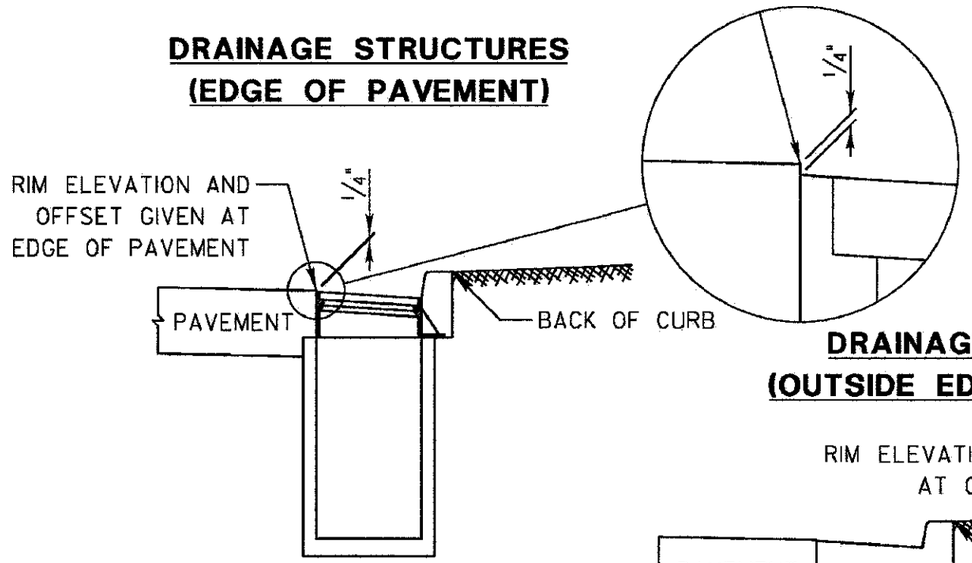
APPROVED BY: MGZ
DATE: March 17, 2008

CONCRETE WASHOUT FACILITIES
SHEET 2 OF 2

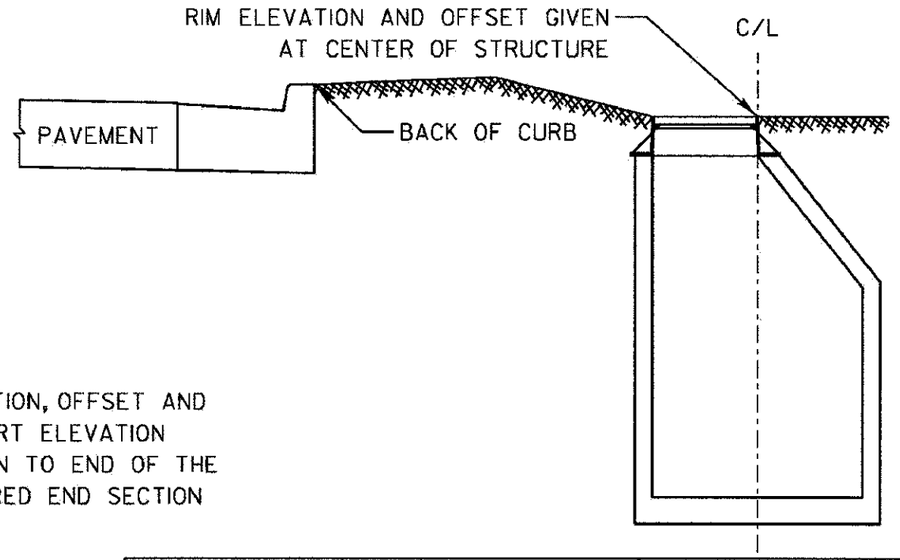
LC4202

FILE NAME = LC1143-sht-detail06.dgn	USER NAME = 3202111143	DESIGNED - TC	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CONCRETE WASHOUT FACILITIES**				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LOM	REVISED -						2626	10-00193-07-BR	LAKE	37	33
	PLOT SCALE = 100.00 ' / in.	CHECKED - PK	REVISED -								CONTRACT NO. 63713		
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -		SCALE: N/A	SHEET 1 OF 1 SHEETS	STA. N/A	TO STA. N/A			ILLINOIS FED. AID PROJECT		

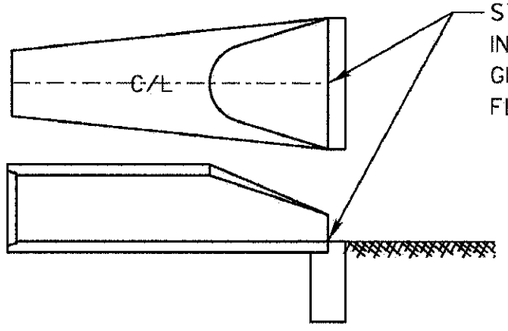
DRAINAGE STRUCTURES (EDGE OF PAVEMENT)



DRAINAGE STRUCTURES (OUTSIDE EDGE OF PAVEMENT)



END SECTION



REVISIONS	DATE

LakeCounty Division of Transportation

APPROVED BY: MGZ
DATE: 03/09/2012

DRAINAGE STRUCTURE RIM ELEVATIONS AND OFFSETS

LC6003

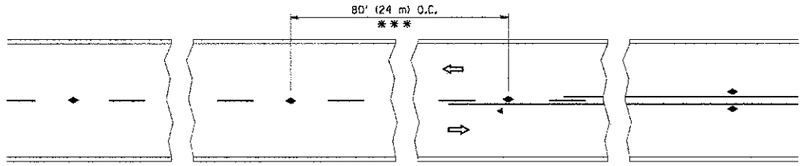
FILE NAME = LC143-sht-detail07.dgn	USER NAME = 3202\11143	DESIGNED - TC	REVISED -
		DRAWN - LOM	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - PK	REVISED -
	PLOT DATE = 8/9/2012	DATE - 4/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURES RIM ELEVATIONS AND OFFSETS

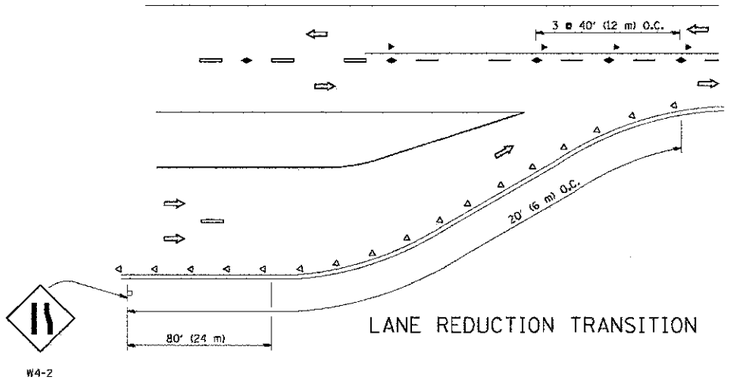
SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	34
		CONTRACT NO. 63713		
		ILLINOIS FED. AID PROJECT		

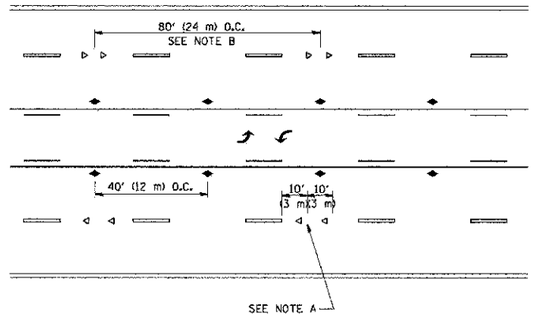


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

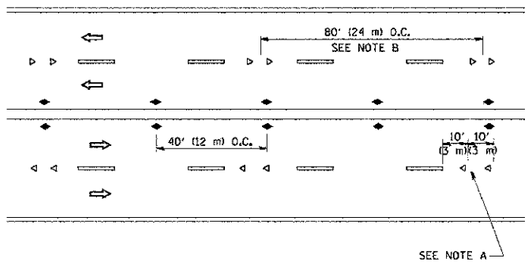
TWO-LANE/TWO-WAY



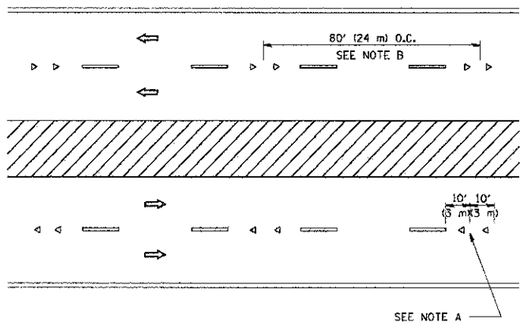
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

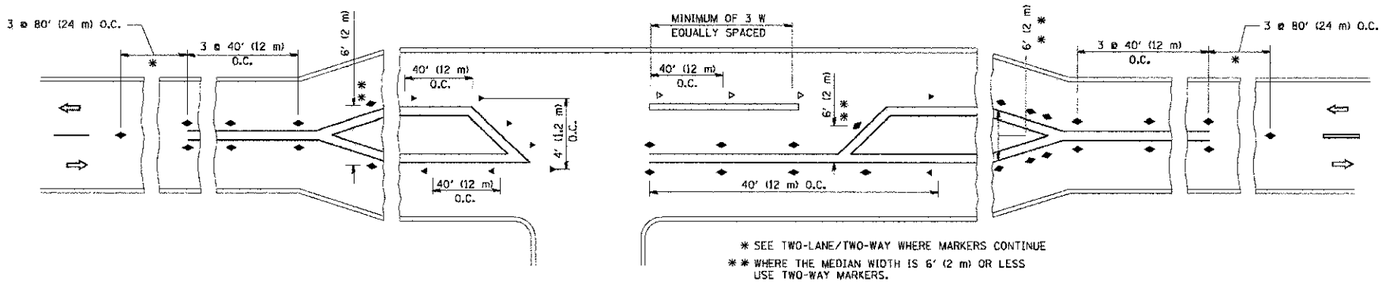
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

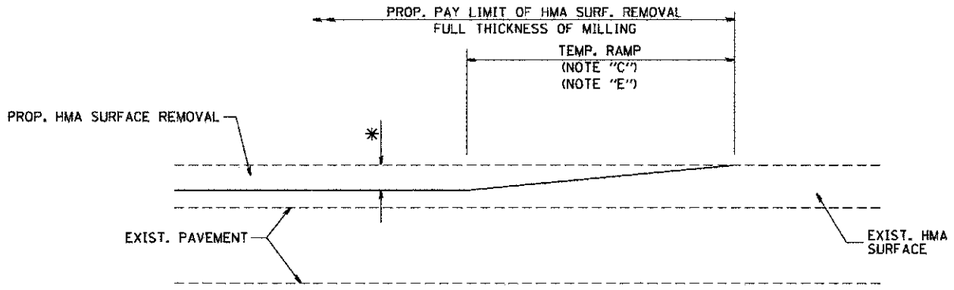
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pw_work\pwidot\lagse\d0198315\tc11.dgn	USER NAME = lagse	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
		DRAWN -	REVISED - T. RAMMACHER 03-12-99		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		

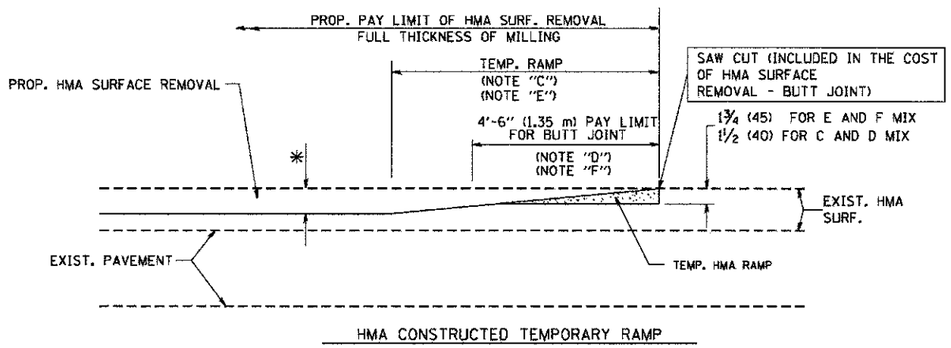
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	35
TC-11		CONTRACT NO. 63713		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

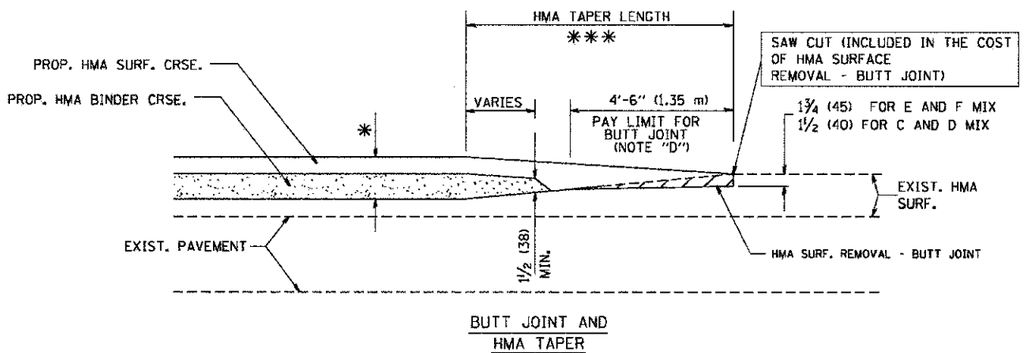


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

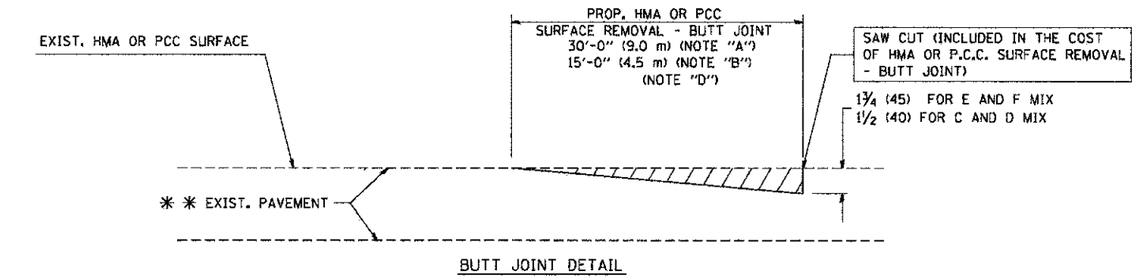
OPTION 2

TYPICAL TEMPORARY RAMP

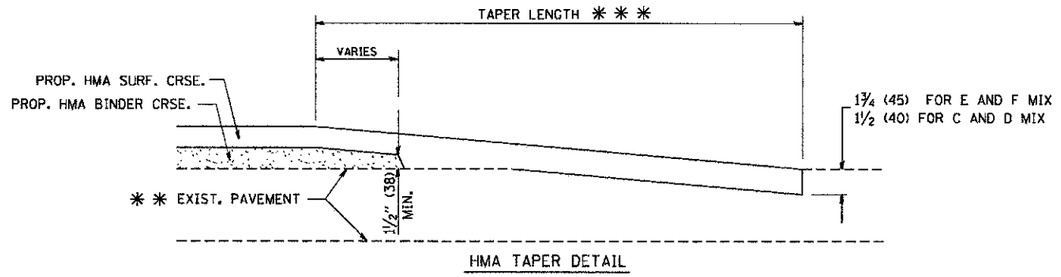


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

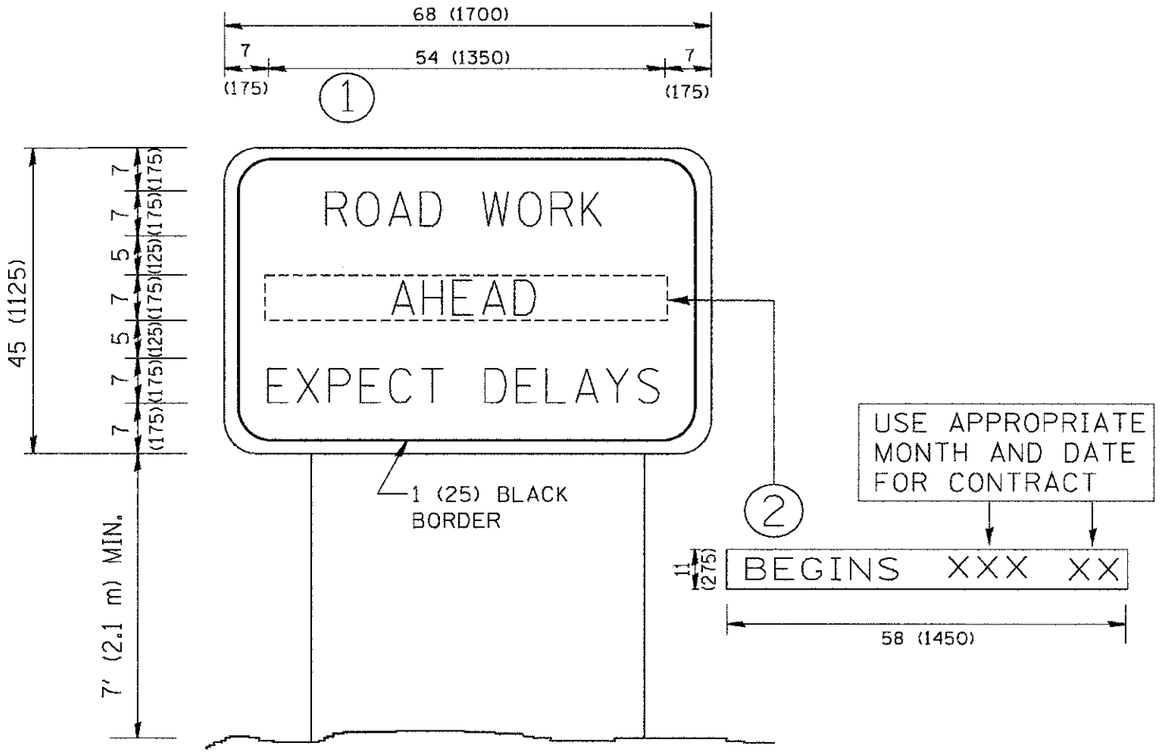
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglenobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	36
	BD400-05 BD32	CONTRACT NO. 63713		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2626	10-00193-07-BR	LAKE	37	37
	TC-22	CONTRACT NO. 63713		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		