09-18-2015 LETTING ITEM 010

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	McHENRY	73	1
	ILLINOIS	CONTRACT NO. 61B85		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

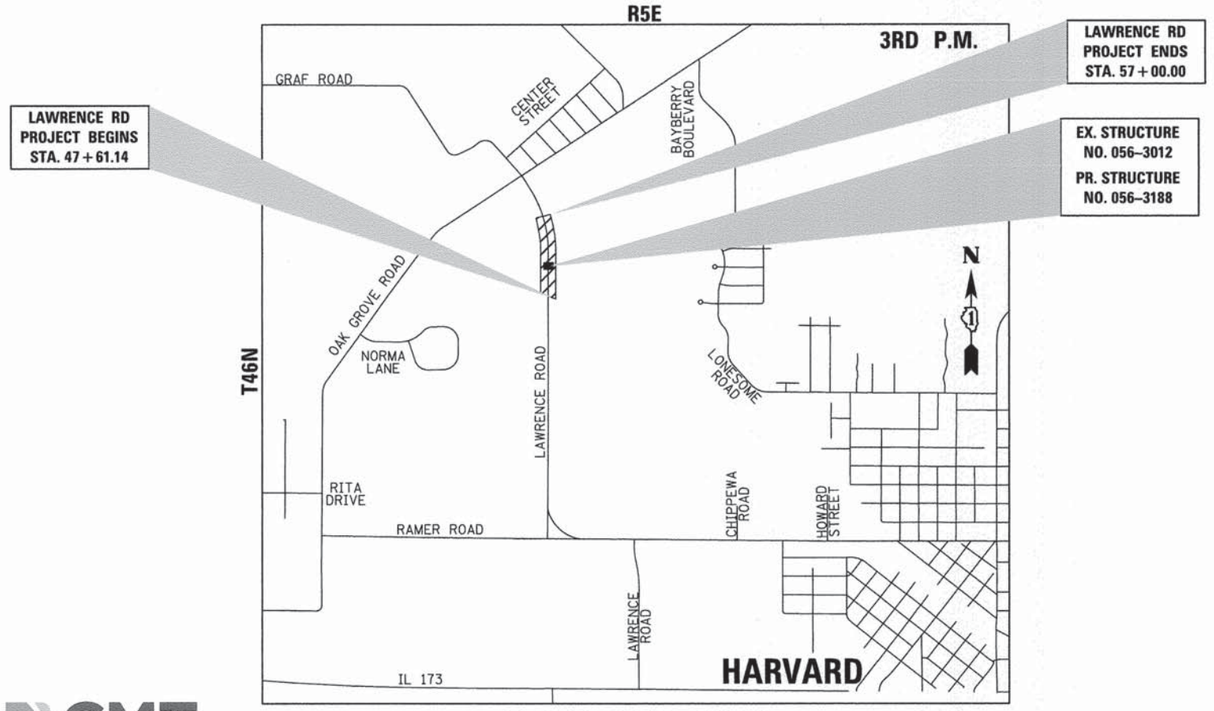
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 4079 (LAWRENCE ROAD)
OVER TRIBUTARY OF LAWRENCE CREEK

SECTION 10–00376–00–BR
PROJECT BRS–0111(063)
BRIDGE REPLACEMENT
MCHENRY COUNTY
C–91–748–10

LOCATION OF SECTION INDICATED THUS: –■–



LOCATION MAP

NOT TO SCALE

CITY OF HARVARD

GROSS LENGTH = 938.86 FT. = 0.18 MILE

NET LENGTH = 938.86 FT. = 0.18 MILE

TRAFFIC DATA

DESIGN DESIGNATION: MINOR ARTERIAL

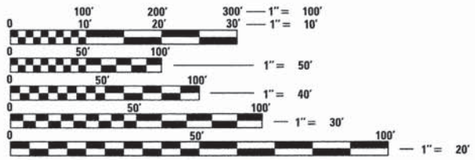
CURRENT ADT (2009): 1280 VPD

PROJECTED ADT (2040): 2000 VPD

DESIGN SPEED: 55 MPH

POSTED SPEED: 55 MPH

PROJECT IS LOCATED IN THE CITY OF HARVARD



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

CMT
Crawford, Murphy & Tilly
550 N Commons Drive, Suite 116
Aurora, Illinois 60504
P: 630.820.1022 | F: 630.820.0350
www.cmtengr.com | Centered in Value
License No. 184-000613

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED JUNE 18, 2015
Joseph R. Korpalski, Jr.
COUNTY OF MCHENRY, COUNTY ENGINEER

PASSED JUNE 29, 2015
CHRISTOPHER HOLT
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW JUNE 29, 2015
John FitzDonna Jr.
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

Charles M Cole
CHARLES "TICE" COLE, P.E., PTOE
EXPIRES: 11–30–2015

STATE OF ILLINOIS
CHARLES M. COLE
059904
LICENSED
PROFESSIONAL ENGINEER
SEAL

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61B85

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E., PTOE 847–705–4021, SCHAUMBURG, IL.

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRV$

INDEX OF SHEETS

HIGHWAY STANDARDS

MCHENRY COUNTY D.O.T. STANDARD DETAILS

RECESSED REFLECTIVE PAVEMENT MARKING APPLICATION
TEMPORARY DITCH CHECK

DISTRICT ONE STANDARD DETAILS

TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
BD01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15'
BD32	BUTT JOINT AND HMA TAPER DETAILS
BD51	BENCHING DETAIL FOR EMBANKMENT WIDENING

I.D.O.T. HIGHWAY STANDARD DRAWINGS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
202001-01	EARTH MEDIAN DITCH CHECK
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-05	OFF-RD OPERATIONS, 2L, 2W 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-04	TRAFFIC CONTROL DEVICES

102 – ADVERTISEMENT, BIDDING, AWARD, AND CONTRACT EXECUTION

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.

104 – SCOPE OF WORK

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY AND ALL MATERIALS AND DEBRIS FROM THE SITE THAT RESULT FROM CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING AREAS (TO REMAIN) AFFECTED BY CONSTRUCTION ACTIVITIES, EQUIPMENT, OR LABORERS TO THE ORIGINAL UNDISTURBED CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL THE COMPLETION OF THE CONTRACT.

105 – CONTROL OF WORK

4. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012, AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS"; ADOPTED JANUARY 1, 2015. THE DETAILS IN THESE PLANS, THE REFERENCED STANDARDS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

5. THE CONTRACTOR SHALL NOTE ANY CHANGES FROM THESE ENGINEERING PLANS AND SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY OF ANY CHANGES THAT DEVIATE FROM THE INTENT OF THE ENGINEERING PLANS SUCH AS CHANGES IN DRAINAGE, GEOMETRICS, OR GRADING.

6. THOSE SEEKING THE FULL HYDRAULIC REPORT, PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT (PESA) OR GEOTECHNICAL REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:
WALLY DITTRICH, DESIGN MANAGER
McHENRY COUNTY DIVISION OF TRANSPORTATION
PHONE: 815.334.4980

7. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET, AS SET FORTH IN THE CONTRACT DOCUMENTS.

8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON PRIVATE OR COUNTY PROPERTY WITHOUT WRITTEN PERMISSION FROM SAID OWNER. SEE FLOODPLAIN EXHIBIT ON SHEET 31 FOR ADDITIONAL RESTRICTIONS.

9. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. FOR INFORMATION REGARDING THE EXISTING STRUCTURE SEE RECORD PLANS ON SHEETS 55-56.

107 – LEGAL REGULATIONS AND RESPONSIBILITY TO THE PUBLIC

10. ALL UTILITIES, CITY OF HARVARD, CHEMUNG TOWNSHIP, HARVARD COMMUNITY SCHOOL DISTRICT 50, HARVARD POLICE DEPARTMENT, HARVARD FIRE PROTECTION DISTRICT, MERCY HARVARD HOSPITAL, MCHENRY COUNTY SHERIFF, AND THE US POST OFFICE SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

REMOVAL NOTES

11. REMOVED PAVEMENT SHALL BE DISPOSED OF OFF SITE AT LOCATIONS PROVIDED BY THE CONTRACTOR AND IS INCLUDED IN THE COST OF PAVEMENT REMOVAL. REMOVAL OF UNSUITABLE MATERIALS SHALL BE REMOVED ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

12. THE LIMITS OF ALL PCC OR HOT-MIX ASPHALT PAVEMENTS, CURBING OR SIDEWALKS ADJACENT TO EXISTING LIKE PAVEMENTS, CURBING OR SIDEWALKS SHALL BE SAWCUT IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS OR AT THE DIRECTION OF THE ENGINEER. THE PAYMENT FOR THE WORK SHALL BE CONSIDERED AS INCLUDED IN THE ASSOCIATED EXCAVATION OR REMOVAL ITEM AND NOT PAID FOR SEPARATELY.

DIRECTORY = L:\McHenryCo\142180\Draw\CADD_Sheets\Hgenote.dgn
USER NAME = Jason Roitburd

CMT
License No. 184-000613

USER NAME = Jason Roitburd	DESIGNED - KWS	REVISED -	
MODEL NAME = Default	DRAWN - KWS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	2
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

SP	SPECIALTY ITEM	PAY ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE BRIDGE 0011	CONSTRUCTION CODE ROADWAY 0004	CONSTRUCTION CODE TRAINEES 0042
		20101400	NITROGEN FERTILIZER NUTRIENT	POUND	15		15	
		20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	15		15	
		20200100	EARTH EXCAVATION	CU YD	4670		4670	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1428		1428	
		20300100	CHANNEL EXCAVATION	CU YD	100	100		
		20400800	FURNISHED EXCAVATION	CU YD	1720		1720	
		20800150	TRENCH BACKFILL	CU YD	13		13	
		21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	3188		3188	
		25000210	SEEDING, CLASS 2A	ACRE	0.25		0.25	
		25000312	SEEDING, CLASS 4A	ACRE	0.75		0.75	
		25000314	SEEDING, CLASS 4B	ACRE	0.75		0.75	
		25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	7181		7181	
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	148		148	
		28000315	AGGREGATE DITCH CHECKS	TON	6		6	
		28000400	PERIMETER EROSION BARRIER	FOOT	1785		1785	
		28000500	INLET AND PIPE PROTECTION	EACH	2		2	
		28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	7181		7181	
		28100105	STONE RIPRAP, CLASS A3	SQ YD	83		83	
		28100107	STONE RIPRAP, CLASS A4	SQ YD	537	537		
		28200200	FILTER FABRIC	SQ YD	620	537	83	
*		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	145		145	
*		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1434		1434	
		35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1106		1106	
*		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6613		6613	
		40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	10		10	
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	79		79	
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	711		711	
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	299		299	
		44000100	PAVEMENT REMOVAL	SQ YD	1489		1489	
		44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	373		373	
		48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	58		58	
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
		50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1		
		50105220	PIPE CULVERT REMOVAL	FOOT	22		22	
		50200100	STRUCTURE EXCAVATION	CU YD	510	510		
		50200300	COFFERDAM EXCAVATION	CU YD	66	66		
*		50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	1		
*		50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1	1		
		50300225	CONCRETE STRUCTURES	CU YD	223.7	223.7		

PEN TABLE = $PENTBL_S$
PLOT DRIVER = $PLTDRVS$

DIRECTORY = L:\McHenry\Civil\421801\Draw\CA00_Sheets\ds-5002-1.dgn
USER NAME = =

CMT
License No. 184-002613

USER NAME = Jason Rostburd	DESIGNED - KWS	REVISED -
	DRAWN - KWS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - CMC	REVISED -
PLOT DATE = 8/6/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - 1
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	3
		CONTRACT NO. 61B85		
	ILLINOIS	FED. AID PROJECT		

SP	SPECIALTY ITEM	PAY ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE BRIDGE 0011	CONSTRUCTION CODE ROADWAY 0004	CONSTRUCTION CODE TRAINEES 0042
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	125.5	125.5		
		50300260	BRIDGE DECK GROOVING	SQ YD	436	436		
		50300300	PROTECTIVE COAT	SQ YD	478	478		
*		50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1770	1770		
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57330	57330		
	#	50901050	STEEL RAILING, TYPE SM	FOOT	87	87		
		51200956	FURNISHING METAL SHELL PILES 12" X 0.179"	FOOT	2431	2431		
		51202305	DRIVING PILES	FOOT	2431	2431		
		51203200	TEST PILE METAL SHELLS	EACH	2	2		
		51500100	NAME PLATES	EACH	1	1		
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4		4	
		542A2737	PIPE CULVERTS, CLASS A, TYPE 4 12"	FOOT	100		100	
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	30		30	
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	189	189		
		61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	1189		1189	
		61100605	MISCELLANEOUS CONCRETE	CU YD	2		2	
	#	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	700		700	
	#	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4		4	
	#	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4	
	#	63200310	GUARDRAIL REMOVAL	FOOT	113		113	
		67100100	MOBILIZATION	LSUM	1		1	
		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1		1	
		72000100	SIGN PANEL - TYPE 1	SQ FT	89		89	
		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2		2	
		72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	12		12	
		72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	24		24	
		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	205		205	
	#	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2164		2164	
	#	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	340	340		
*	#	78200410	GUARDRAIL MARKERS, TYPE A	EACH	14		14	
*	#	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4	
*		X0322400	PILE EXTRACTION	EACH	12	12		
*		X2800302	TEMPORARY DITCH CHECKS (SPECIAL)	FOOT	112		112	
*		X4020700	AGGREGATE SURFACE COURSE, TYPE B 8"	SQ YD	98		98	
*		X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	197	197		
*		X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	93	93		
*		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1	
*	#	X7810300	RECESSED REFLECTIVE PAVMENT MARKER	EACH	28		28	

SP	SPECIALTY ITEM	PAY ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE BRIDGE 0011	CONSTRUCTION CODE ROADWAY 0004	CONSTRUCTION CODE TRAINEES 0042
*		Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1	
*		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	50		50	
*		Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	172	172		
*		Z0076600	TRAINEES	HOUR	500			500
*		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLOTDRV$$

DIRECTORY = L:\McHenry\Civil\421801\DrawCADD_Sheets\dn-SDQ-2.dgn
USER NAME =

CMT
License No. 184-000613 ©Copyright CMT, Inc.

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -
	DRAWN - KWS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - 2
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 2 OF 2 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	4
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

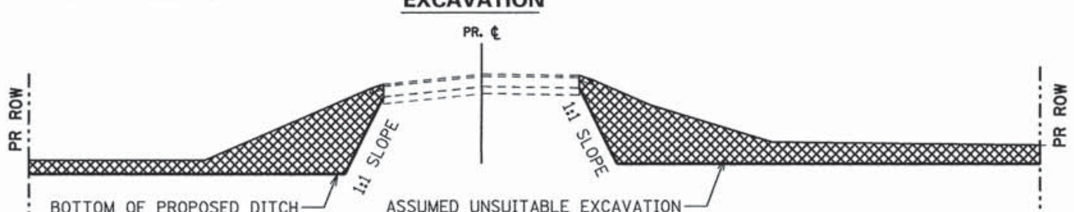
EARTHWORK SCHEDULE

STATION RANGE	EARTH EXCAVATION (SUITABLE + UNSUITABLE)	EARTH EXCAVATION (SUITABLE MATERIAL)	EARTH EXCAVATION (UNSUITABLE MATERIAL)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (SUITABLE MATERIAL)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (UNSUITABLE	REQUIRED EMBANKMENT (SUITABLE + UNSUITABLE)	REQUIRED EMBANKMENT (SUITABLE MATERIAL)	REQUIRED EMBANKEMENT (UNSUITABLE MATERIAL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (SUITABLE MATERIAL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (UNSUITABLE
	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)
47+89.14 TO 47+91.14	3.1	0.0	3.1	0.0	2.6	1.7	0.5	1.2	-0.5	1.4
47+91.14 TO 48+00.00	29.1	0.0	29.1	0.0	24.7	20.4	7.5	12.9	-7.5	11.8
48+00.00 TO 48+50.00	213.7	0.0	213.7	0.0	181.6	224.1	98.3	125.8	-98.3	55.8
48+50.00 TO 49+00.00	267.6	0.0	267.6	0.0	227.5	330.0	157.3	172.7	-157.3	54.8
49+00.00 TO 49+50.00	305.3	0.0	305.3	0.0	259.5	320.9	189.1	131.8	-189.1	127.7
49+50.00 TO 50+00.00	331.5	0.0	331.5	0.0	281.8	305.6	211.0	94.6	-211.0	187.2
50+00.00 TO 50+50.00	342.6	0.0	342.6	0.0	291.2	368.5	242.5	126.0	-242.5	165.2
50+50.00 TO 50+80.00	105.5	0.0	105.5	0.0	89.7	123.3	78.9	44.4	-78.9	45.3
50+80.00 TO 51+20.00	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED
51+20.00 TO 51+50.00	96.1	0.0	96.1	0.0	81.7	131.5	91.4	40.0	-91.4	41.7
51+50.00 TO 52+00.00	317.3	0.0	317.3	0.0	269.7	405.3	287.8	117.4	-287.8	152.3
52+00.00 TO 52+50.00	312.8	0.0	312.8	0.0	265.9	368.5	251.2	117.3	-251.2	148.6
52+50.00 TO 53+00.00	324.7	0.0	324.7	0.0	278.0	361.1	201.9	159.2	-201.9	118.8
53+00.00 TO 53+50.00	367.4	0.0	367.4	0.0	312.3	351.2	145.8	205.3	-145.8	107.0
53+50.00 TO 53+52.30	16.9	0.0	16.9	0.0	14.4	15.4	5.4	10.0	-5.4	4.4
53+52.30 TO 53+90.36	194.1	0.0	194.1	0.0	165.0	129.2	43.5	85.7	-43.5	79.3
53+90.36 TO 54+00.00	31.0	0.8	30.2	0.0	25.7	3.0	0.0	3.0	0.0	22.7
54+00.00 TO 54+50.00	207.9	22.3	185.6	18.9	157.8	7.6	0.0	7.6	18.9	150.2
54+50.00 TO 55+00.00	306.1	73.7	232.4	62.7	197.5	0.0	0.0	0.0	62.7	197.5
55+00.00 TO 55+50.00	357.8	105.6	252.2	89.8	214.4	0.0	0.0	0.0	89.8	214.4
55+50.00 TO 56+00.00	292.4	125.3	167.2	106.5	142.1	0.0	0.0	0.0	106.5	142.1
56+00.00 TO 56+11.36	45.6	16.6	29.0	14.1	24.7	0.0	0.0	0.0	14.1	24.7
56+11.36 TO 56+50.00	108.0	1.1	106.9	1.0	90.8	0.0	0.0	0.0	1.0	90.8
56+50.00 TO 57+00.00	92.3	0.0	92.3	0.0	78.5	0.0	0.0	0.0	0.0	78.5
TOTAL	4668.7	345.4	4323.4	292.9	3676.9	3467.0	2012.1	1454.9	-1719.2	2222.0
ROUNDED TOTAL	4670	350	4325	295	3680	3470	2015	1455	-1720	2225
	EARTH EXCAVATION (20200100)								FURNISHED EXCAVATION (20400800)	PAID WITHIN EARTH EXCAVATION (20200100)

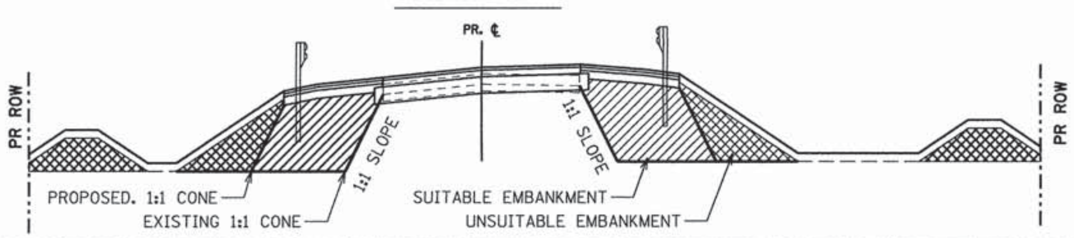
EARTH EXCAVATION NOTES

1. ALL EXCAVATION OUTISDE OF THE EXISTING 1:1 CONE IS ASSUMED TO BE UNSUITABLE.
2. UNSUITABLE EXCESS MATERIAL FROM EXCAVATION OUTSIDE THE PROPOSED 1:1 CONE SHALL BE USED IN THE EMBANKMENT. ALL SUITABLE EXCAVATION SHALL BE USED IN THE ROADWAY EMBANKMENT. PLACEMENT AND COMPACTION OF THIS MATERIAL SHALL BE CONSIDERED INCLUDED WITH THE COST OF "EARTH EXCAVATION" (20200100). NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. PAYMENT FOR ANY REMOVAL OF EXISTING AGGREGATE BASE COURSE AND AGGERGATE SHOULDER SHALL BE CONSIDERED INCLUDED IN THE COST OF "EARTH EXCAVATION" (20200100).
4. EXCESS EXCAVATION, IF NOT UTILIZED AS EMBANKMENT, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR AND BE CONSIDERED INCLUDED IN THE COST OF "EARTH EXCAVATION" (20200100).
5. CLEARING AND GRUBBING OF ALL LOGS, SHRUBS, BUSHES, SAMPLINGS, GRASS, WEEDS, OTHER VEGETATION AND STUMPS OF A DIAMETER LESS THAN 6 INCHES AS WELL AS THE REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS TO PROPOSED IMPROVEMENTS INCLUDING BUT NOT LIMITED TO ACCUMULATIONS OF RUBBISH AND EXISTING STRUCTURES NOT SHOWN TO BE REMOVED AS A SEPARATE PAY ITEM SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION" (20200100).
6. ALL TOPSOIL REMOVAL SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" (20201200).

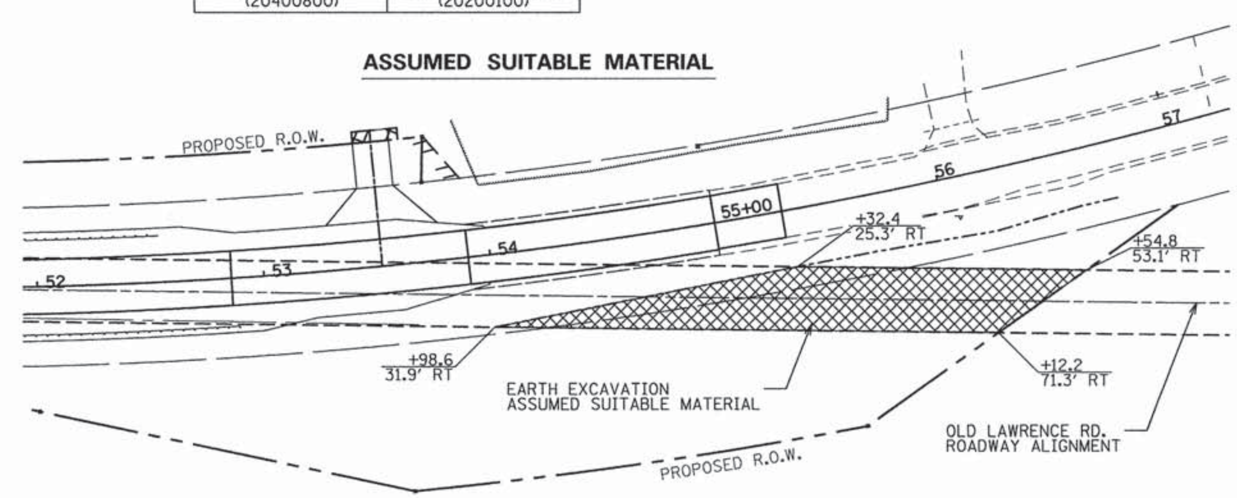
EXCAVATION



EMBANKMENT



ASSUMED SUITABLE MATERIAL

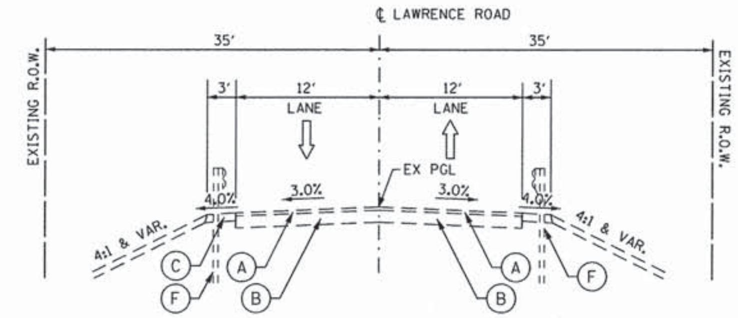


CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	MODEL NAME = Default	DRAWN - KWS	REVISED -	
	PLOT SCALE = 20.0000 '/ in.	CHECKED - CMC	REVISED -	
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

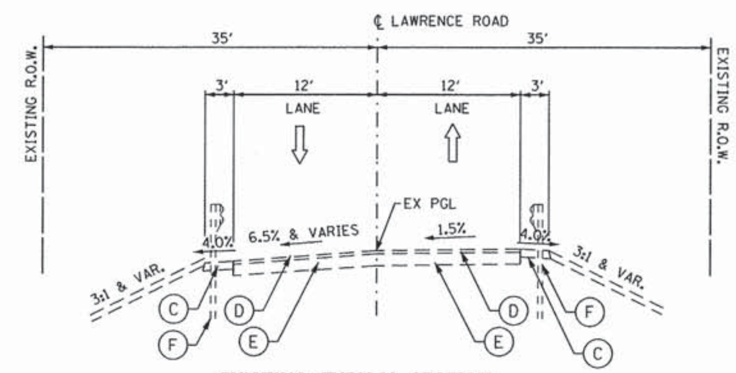
EARTHWORK SCHEDULE AND EARTHWORK NOTES
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	5
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION
LAWRENCE ROAD STA. 47+61.14 TO 50+75
(SOUTH OF BRIDGE)
BRIDGE OMISSION STA. 50+75 TO STA. 51+23
*** STA. 50+57 TO STA. 50+85**
HMA SURFACE REMOVAL – BUTT JOINT STA. 47+61.14 TO STA. 47+91.14
PAVEMENT REMOVAL STA. 47+91.14 TO STATION 50+75.00



EXISTING TYPICAL SECTION
LAWRENCE ROAD STA. 51+23 TO 57+00
(NORTH OF BRIDGE)
*** STA. 51+15 TO STA. 51+43**
PAVEMENT REMOVAL STA. 51+23.00 TO STATION 53+90.36
HMA SURFACE REMOVAL, 2" – STA. 53+90.36 TO STA. 55+00.00
HMA SURFACE REMOVAL – BUTT JOINT STA. 55+00.00 TO STA. 55+30.00

EXISTING LEGEND

- (A) EXISTING BITUMINOUS 3"
- (B) EXISTING BASE COURSE 9": BROWN & BLACK SANDY LOAM A-2-4 (FILL)
- (C) EXISTING AGGREGATE SHOULDER UNKNOWN THICKNESS
- (D) EXISTING BITUMINOUS 2.5"
- (E) EXISTING BASE COURSE 15.5": GRAVEL & SAND WITH CRUSHED STONE A-1-B (FILL)
- (F) EXISTING GUARDRAIL AND GUARDRAIL REMOVAL

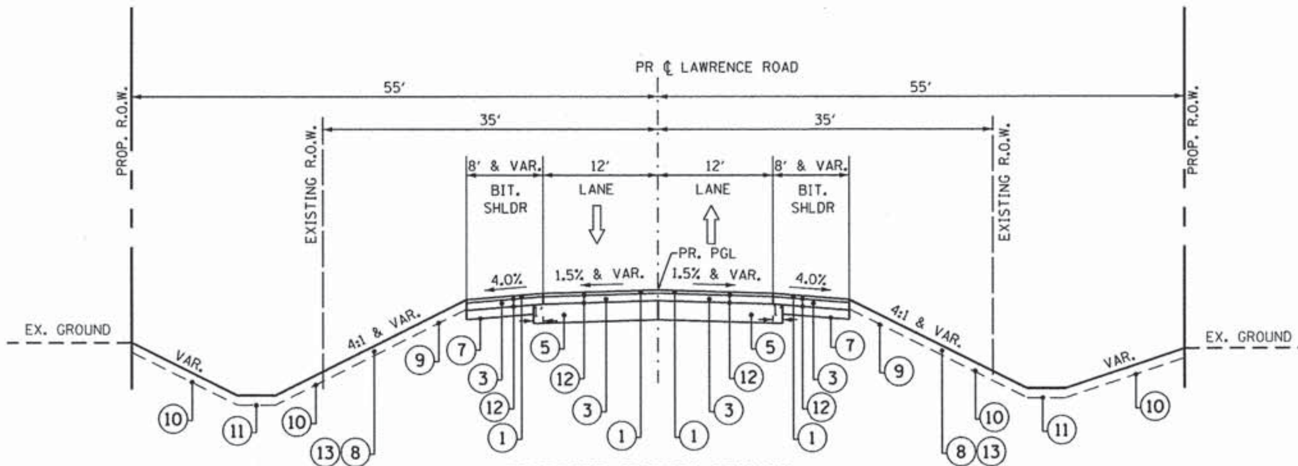
NOTES:
1. SEE ROADWAY REMOVAL PLANS FOR ALL REMOVALS.
2. AGGREGATE SHOULDER REMOVAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

PEN TABLE = $PENTBLS$
PLOT DRIVER = $PLTDRVS$

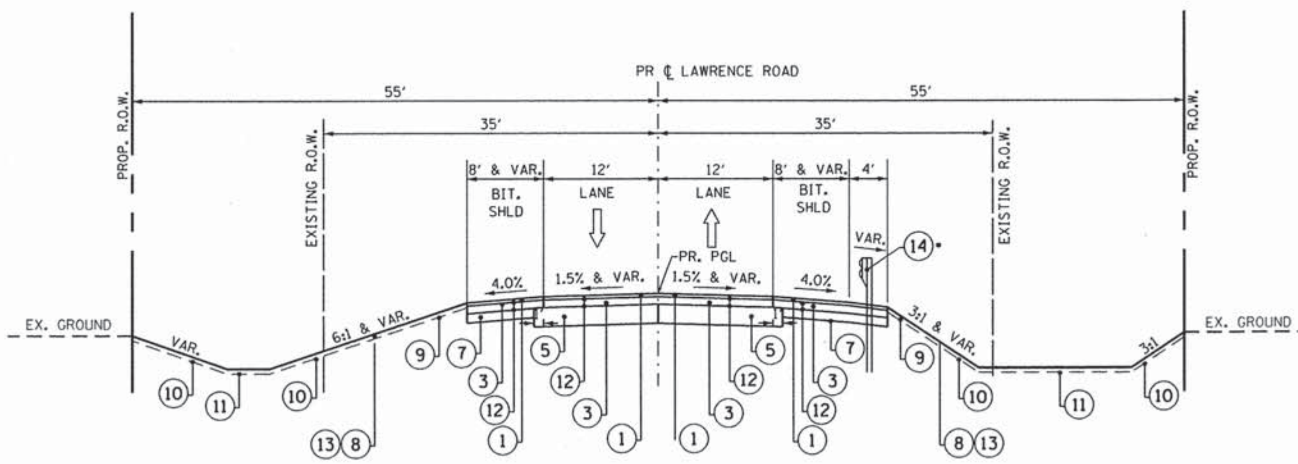
DIRECTORY = L:\McHenryCo\14218010\Draw\CADD_Sheets\sht-ex_typical.dgn
USER NAME = Jason Roitburd

CMT	USER NAME = Jason Roitburd	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188
		DRAWN - KWS	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -		
License No. 184-000613 © Copyright CMT, Inc.	PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. - TO STA. -

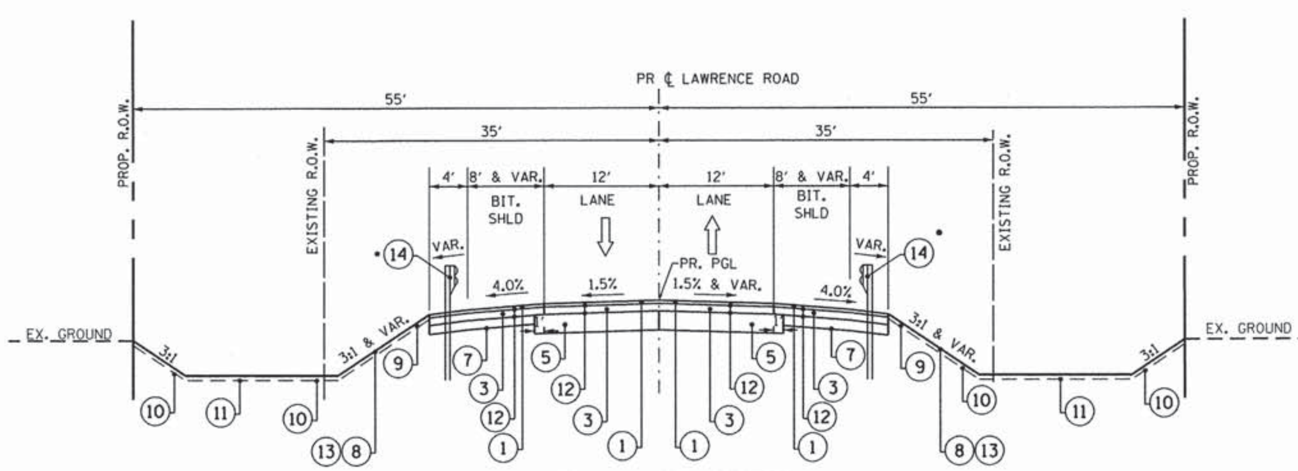
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	6
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 47+91.14 TO 48+13.35
(RESURFACING ONLY STA. 47+61.14 TO 47+91.14)



PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 48+13.35 TO 48+75.85
• GUARDRAIL BEGINS STA. 48+47.35 RT TO STA. 48+75.85 RT



PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 48+75.85 TO 50+22.42
• GUARDRAIL BEGINS STA. 49+09.85 LT TO STA. 50+22.42 LT
• GUARDRAIL BEGINS STA. 48+75.85 RT TO STA. 50+22.42 RT

PROPOSED LEGEND

1. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
2. LEVELING BINDER (MACHINE METHOD), N50
3. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4-3/4"
4. NOT USED
5. AGGREGATE SUBGRADE IMPROVEMENT, 12"
6. AGGREGATE SHOULDERS, TYPE B 8"
7. AGGREGATE BASE COURSE, TYPE B, 6"
8. TOPSOIL FURNISH AND PLACE, 6"
9. SEEDING, CLASS 2A
10. SEEDING, CLASS 4A
11. SEEDING, CLASS 4B
12. BITUMINOUS MATERIALS (PRIME COAT)
13. HEAVY DUTY EROSION CONTROL BLANKET
14. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS - SEE PLAN SHEETS FOR LOCATIONS

DISTRICT ONE - HOT-MIX ASPHALT SURFACE TREATMENTS

PAY ITEM DESCRIPTION	MIX TYPE	PERCENT AIR VOIDS	LIFT THICKNESS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	IL 9.5 mm	4% @ 50 Gyr.	2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		4% @ 50 Gyr.	2-1/4" Min.
LEVELING BINDER (MACHINE METHOD), N50	IL 9.5 mm	4% @ 50 Gyr.	3/4" - 2 1/4"

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. 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.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

DESIGN DATA

CLASS III ROAD
20 YEAR DESIGN PERIOD (2036)
STRUCTURAL DESIGN YEAR (2026)
STRUCTURAL DESIGN YEAR TRAFFIC = 1,675 ADT
PV = 1,474 SU = 117 MU = 84
TRAFFIC FACTOR = 0.45
PG GRADE 58-28
SUBGRADE SUPPORT RATING = POOR
BLRS PAVEMENT DESIGN CALLS FOR 6.75" PAVEMENT OVER 12" SUBGRADE.

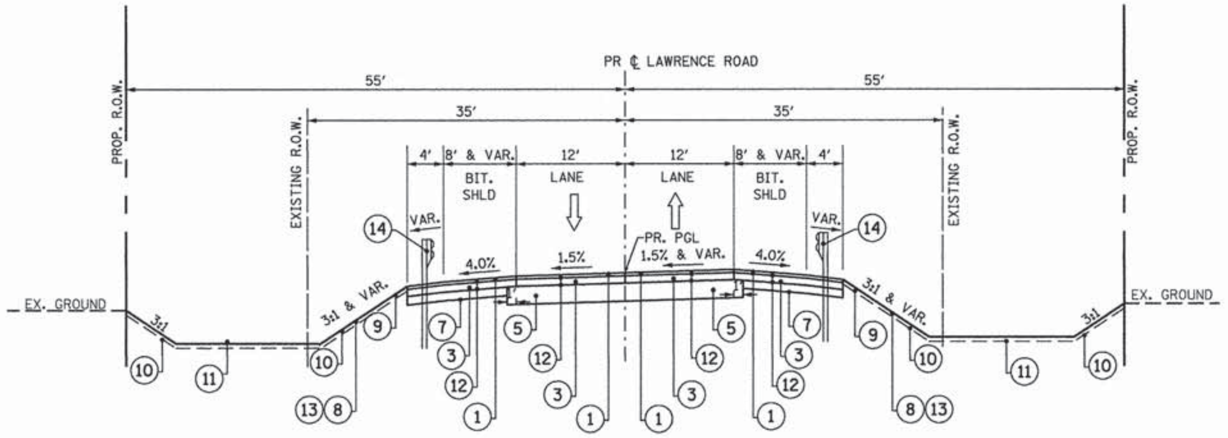
NOTE:
SEE LANDSCAPING PLANS FOR SEEDING LIMITS.

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRV$

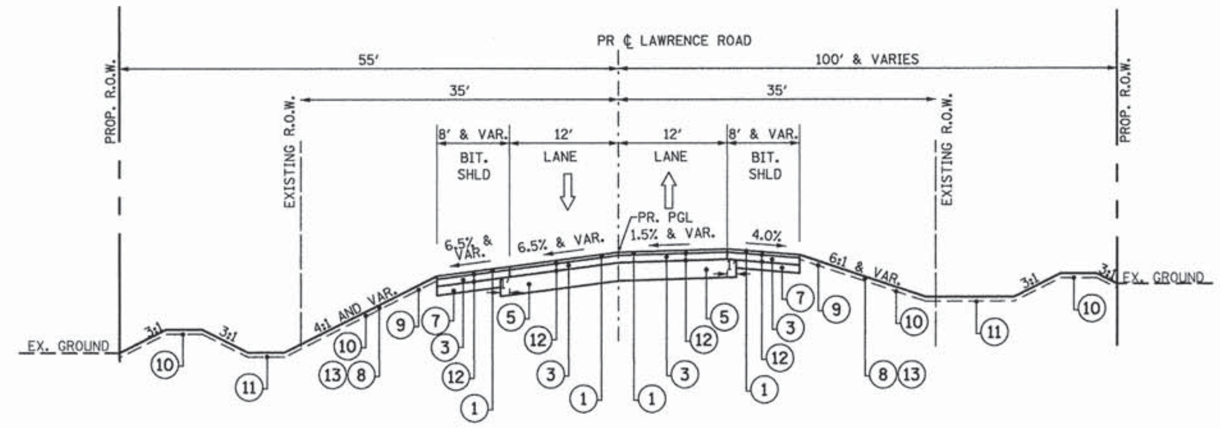
DIRECTORY = L:\McHenry\...
USER NAME = Jason Roitburd

CMT	USER NAME = Jason Roitburd	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTIONS LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188
		DRAWN - KWS	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -		
License No. 184-000613	PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. - TO STA. -

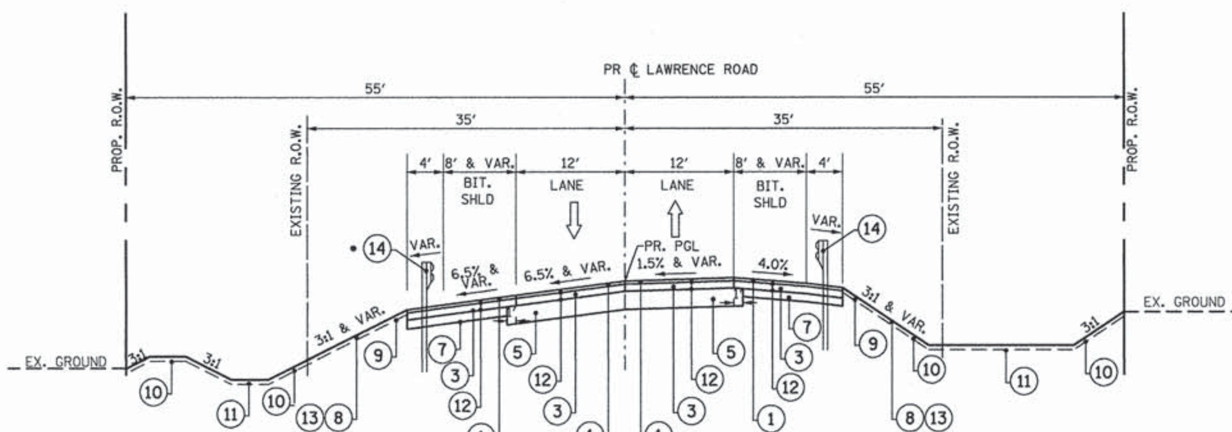
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	7
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



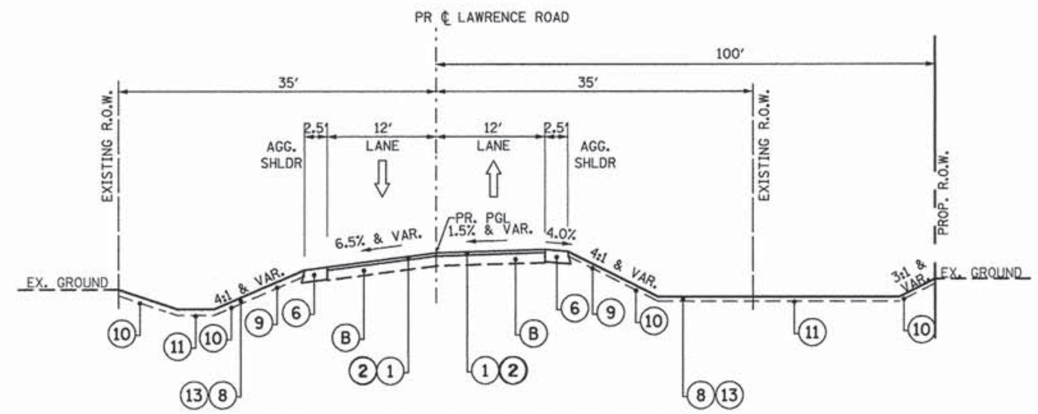
PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 50+22.42 TO 50+48.42
(APPROACH PAVEMENT AND BRIDGE OMISSIONS FROM STA. 50+48.42 TO STA. 51+51.58)



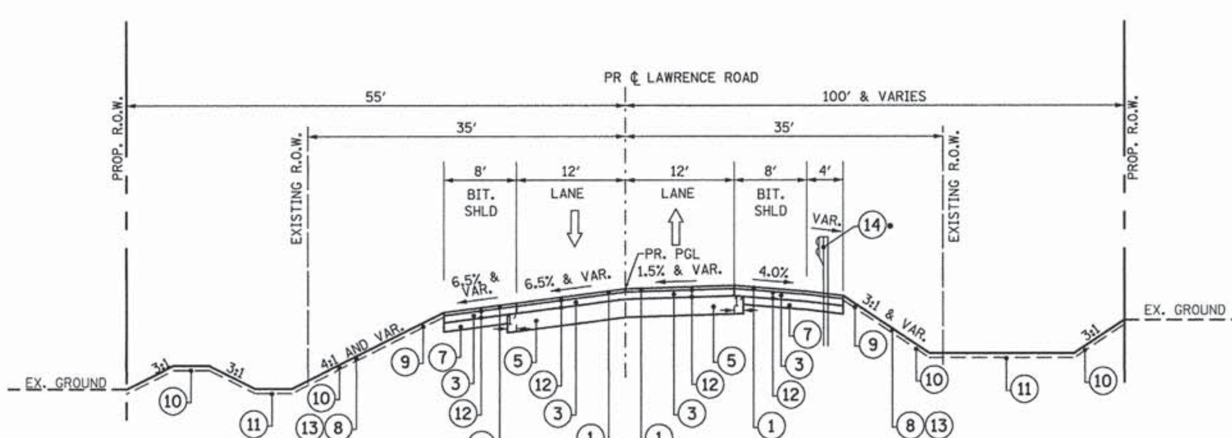
PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 53+22.51 to 53+90.36



PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 51+51.58 TO 52+87.94
• GUARDRAIL STA. 51+51.58 TO STA. 52+53.94



RESURFACING & SUPERELEVATION CORRECTION
LAWRENCE ROAD
STA. 53+90.36 TO 55+00
(BUTT JOINT STA. 55+00 TO STA. 55+30)



PROPOSED TYPICAL SECTION
LAWRENCE ROAD
STA. 52+87.94 TO 53+22.51
• GUARDRAIL ENDS STA. 52+87.95 RT TO STA. 52+88.51 RT

PROPOSED LEGEND

1. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
2. LEVELING BINDER (MACHINE METHOD), N50
3. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4-3/4"
4. NOT USED
5. AGGREGATE SUBGRADE IMPROVEMENT, 12"
6. AGGREGATE SHOULDERS, TYPE B 8"
7. AGGREGATE BASE COURSE, TYPE A, 6"
8. TOPSOIL FURNISH AND PLACE, 6"
9. SEEDING, CLASS 2A
10. SEEDING, CLASS 4A
11. SEEDING, CLASS 4B
12. BITUMINOUS MATERIALS (PRIME COAT)
13. HEAVY DUTY EROSION CONTROL BLANKET
14. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS - SEE PLAN SHEETS FOR LOCATIONS

NOTE:
SEE LANDSCAPING PLANS FOR SEEDING LIMITS.

EXISTING LEGEND

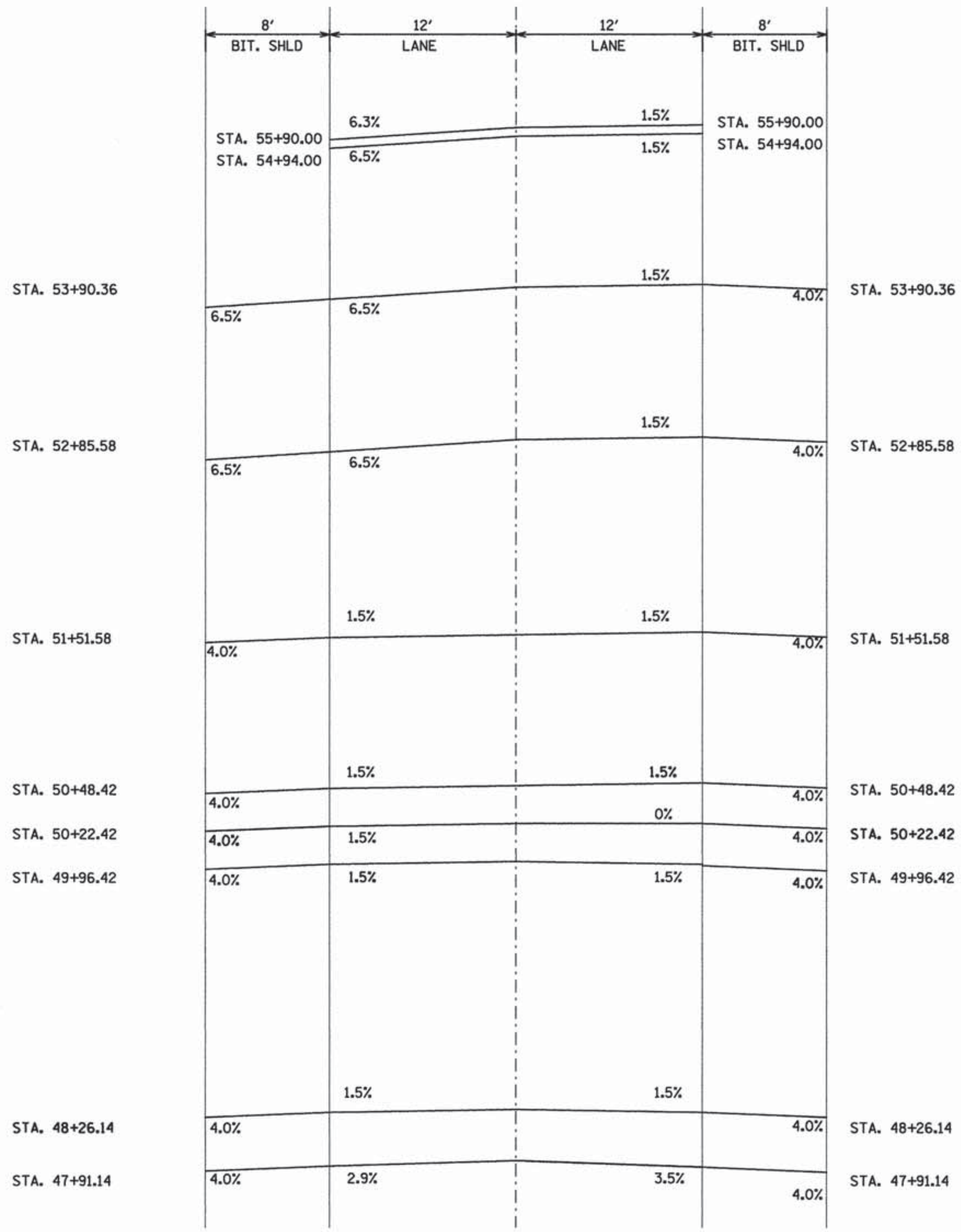
- (A) EXISTING BITUMINOUS 3"
- (B) EXISTING BASE COURSE 9": BROWN & BLACK SANDY LOAM A-2-4 (FILL)
- (C) EXISTING AGGREGATE SHOULDER UNKNOWN THICKNESS
- (D) EXISTING BITUMINOUS 2.5"
- (E) EXISTING BASE COURSE 15.5": GRAVEL & SAND WITH CRUSHED STONE A-1-B (FILL)

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - KWS	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

PROPOSED TYPICAL SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188
SCALE: N.T.S. | SHEET 3 OF 3 SHEETS | STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	8
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

LAWRENCE ROAD CURVE
SUPERELEVATION TRANSITION TABLE



PROP. CURVE PRLAWC-1

PI STA. = 57+81.18
Δ = 34° 01' 30" (LT)
D = 2° 39' 42"
R = 2,152.55'
T = 658.61'
L = 1,278.29'
E = 98.50'
DESIGN SPEED = 55 MPH
e = VARIES 1.5 TO 6.5 SB
1.5 & VARIES NB
T.R. = 26'
S.E. RUN = 26'
P.C. STA = 51+22.56
P.T. STA = 64+00.85

CMT	USER NAME = Mike Moss	DESIGNED - KWS	REVISED -
		DRAWN - KWS	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - CMC	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERELEVATON DATA
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

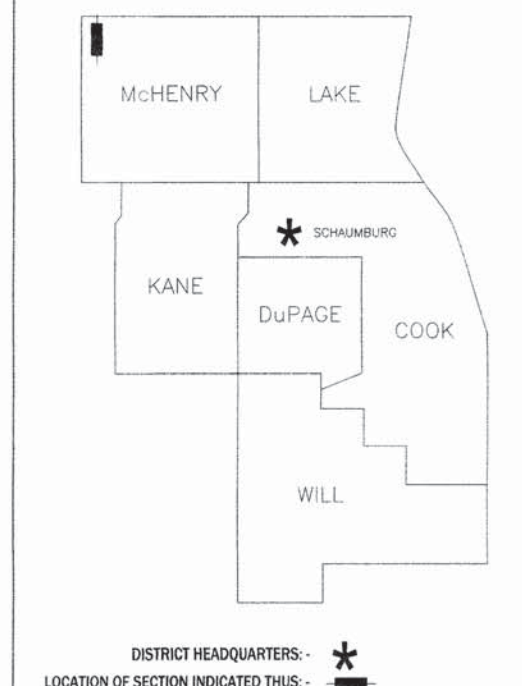
SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	9
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

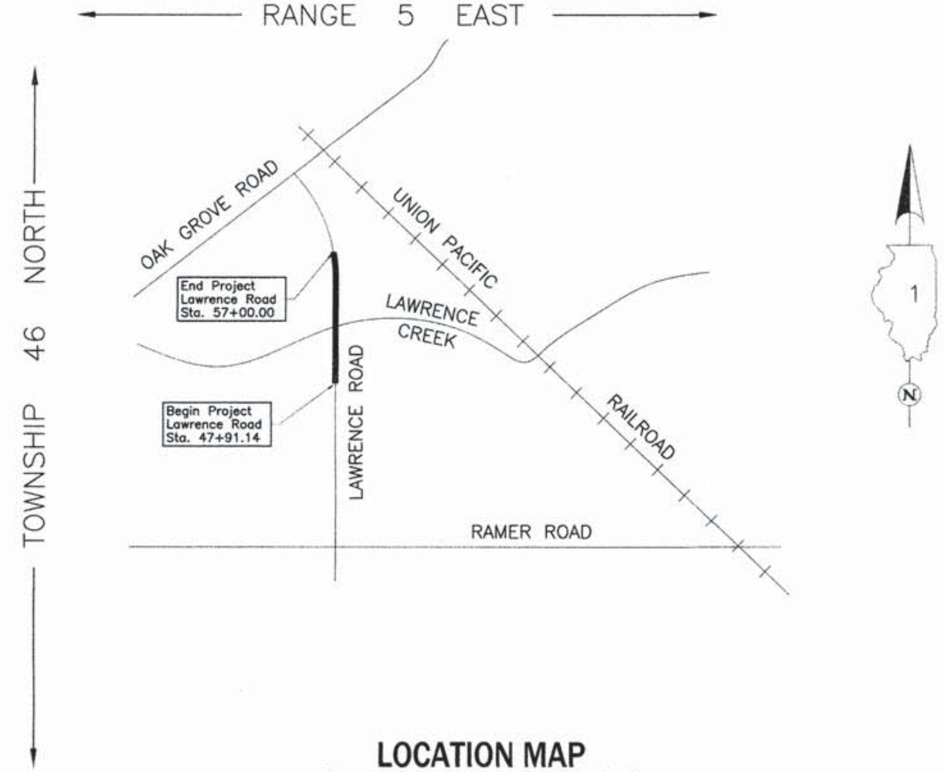
PLAT OF HIGHWAYS

ROUTE: LAWRENCE ROAD
SECTION: 10-00376-00-BR
COUNTY: McHENRY
LIMITS: LAWRENCE ROAD OVER LAWRENCE CREEK
JOB NO.: R-55-001-97



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0001 0001T.E.	Robert L. Helfers and Karen J. Helfers, as joint tenents	2 & 3	
0002 0002T.E.	Carol A. Volkening, as Trustee under the provisions of a Trust Agreement dated February 13, 2008 and known as the Carol A. Volkening Trust No. 1	2 & 3	
0003T.E.	Jacquelyn Gratz	2	



LOCATION MAP

PROJECT LENGTH = 908.86 LIN. FT. = 0.172 MILE, LAWRENCE ROAD

IDOT USE ONLY

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRV$

DIRECTORY = L:\McHenryCo\14218010\Draw\CADD_Sheets\Sht-POH-01.dgn
USER NAME = Mike Moes

CMT

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 1 OF 4 SHEETS | STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	10
		CONTRACT NO. 61B85		

ILLINOIS FED. AID PROJECT

PART OF THE WEST 1/2 OF SEC. 27, TWP. 46 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	BT1 BT2 BT3	49.04 56.39 75.25
2	BT1 BT2 BT3	29.04 40.86 65.04
3	BT1 BT2 BT3	65.64 40.04 25.85
4	BT1 BT2 BT3	63.59 36.75 20.85
5	BT1 BT2 BT3	31.95 16.27 33.05
6	BT1 BT2 BT3	34.73 21.27 35.56
7	T1 T2 BT3	25.84 18.82 23.70
8	T1 T2 T3	20.45 14.46 25.59
9	BT1 BT2 BT3	25.89 18.24 25.73
10	BT1 BT2 BT3	26.21 16.23 25.76
11	BT1 BT2 BT3	28.67 12.56 29.30
12	BT1 BT2 BT3	28.37 18.82 27.42
13	T1 T2 T3	19.85 14.55 24.74
14	BT1 BT2 BT3	34.51 19.93 32.53
15	BT1 BT2 BT3	49.66 39.93 47.52

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0001 0001T.E.	113.807	0.932	0.649	112.875	0.002	100	Grading	01-27-300-009 01-34-100-001
0002 0002T.E.	54.142	0.749	N/A	53.393	0.002	100	Grading	01-27-151-006 01-27-300-008
0003T.E.	2.721	N/A	N/A	2.721	0.004	167	Grading	01-27-152-006

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
48+11.35	55.00' Rt.	2,101,354.027	900,737.477
48+11.35	60.00' Rt.	2,101,354.031	900,742.477
48+50.00	55.00' Lt.	2,101,362.582	900,627.470
48+50.00	60.00' Lt.	2,101,362.578	900,622.470
50+00.00	55.00' Lt.	2,101,512.582	900,627.346
50+00.00	60.00' Lt.	2,101,512.578	900,622.346
51+22.56	35.00' Lt.	2,101,635.161	900,647.245
51+22.56	35.00' Rt.	2,101,635.219	900,717.245
51+22.56	55.00' Lt.	2,101,635.145	900,627.245
51+22.56	55.00' Rt.	2,101,635.235	900,737.245
52+00.00	55.00' Rt.	2,101,714.633	900,735.751
53+44.01	60.00' Lt.	2,101,850.034	900,611.004
53+44.04	55.00' Lt.	2,101,850.575	900,615.975
53+57.07	99.95' Rt.	2,101,880.174	900,768.638
53+57.22	100.00' Rt.	2,101,880.342	900,768.671
53+64.56	55.00' Lt.	2,101,870.457	900,613.809
53+64.59	60.00' Lt.	2,101,869.916	900,608.838
53+65.60	27.18' Rt.	2,101,880.793	900,695.347
53+68.94	℄	2,101,881.024	900,667.957
53+73.37	35.00' Lt.	2,101,881.322	900,632.684
53+75.96	55.00' Lt.	2,101,881.493	900,612.524
53+90.36	35.00' Lt.	2,101,897.912	900,630.662
55+50.00	100.00' Rt.	2,102,079.597	900,737.615
57+00.00	35.00' Rt.	2,102,214.968	900,638.528
57+24.41	℄	2,102,229.161	900,598.164
57+25.64	35.00' Lt.	2,102,220.635	900,564.197

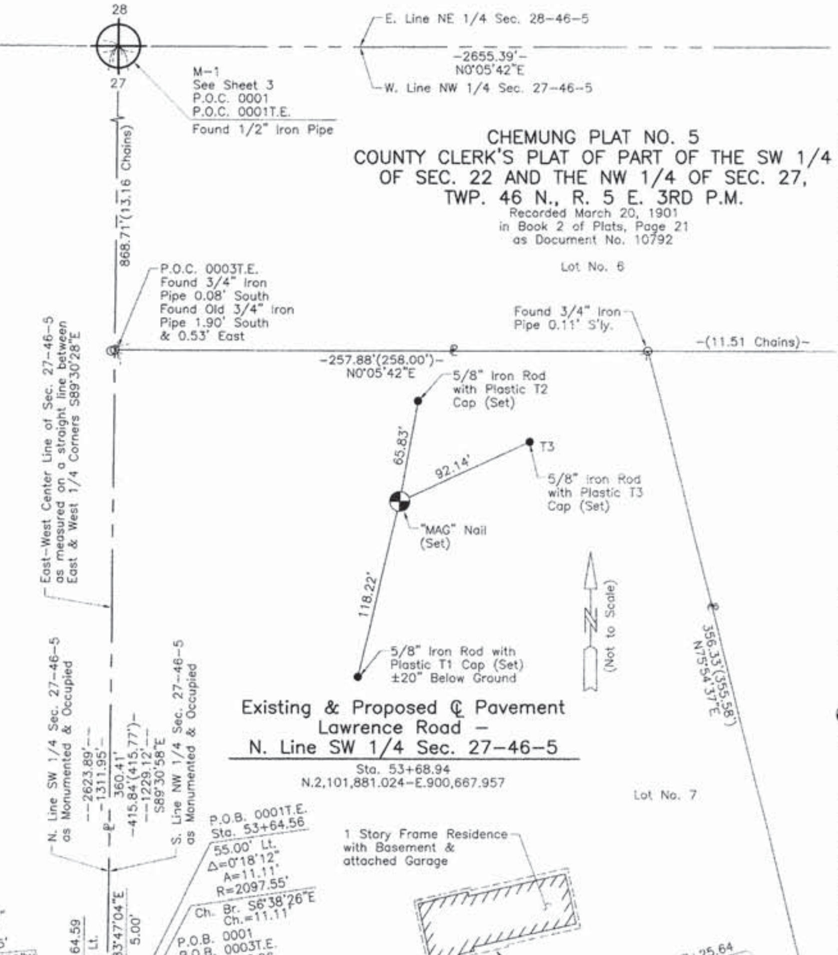
EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0001	169057	April 21, 1943
0002	169054	April 21, 1943
0002	169056	April 21, 1943
0003	169054	April 21, 1943

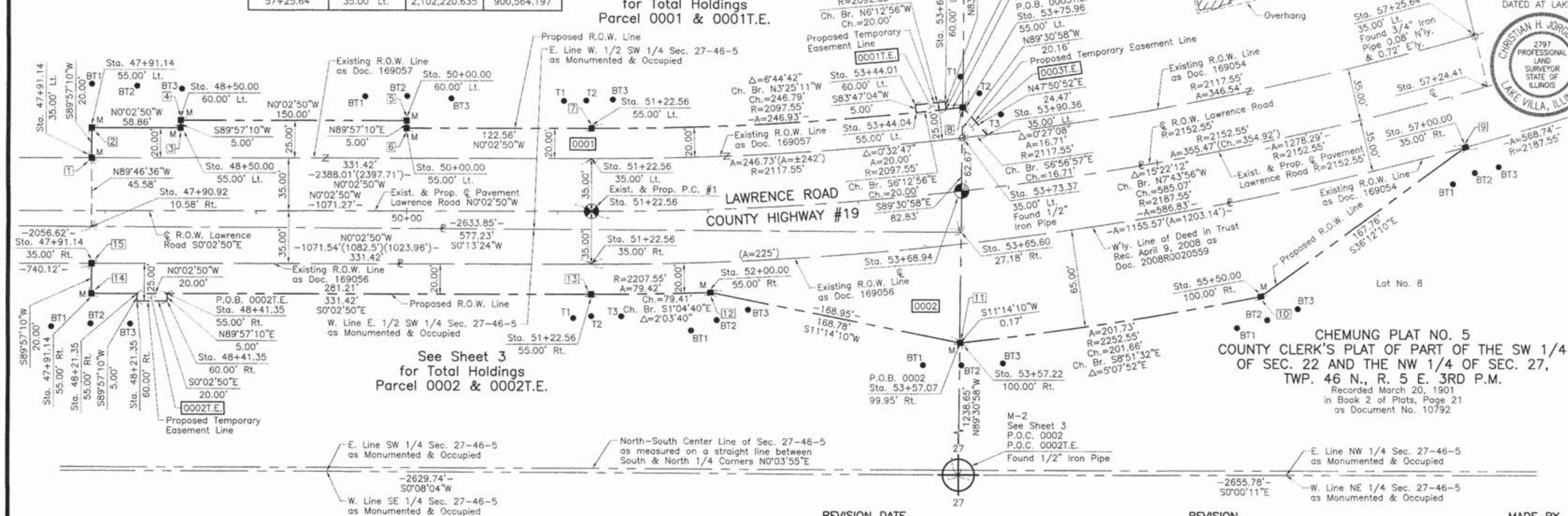
Existing & Proposed ℄ Pavement Lawrence Road Curve #1

P.I. = Sta. 57+81.18
Δ = 34°01'30"
R = 2152.55'
T = 658.62'
L = 1278.29'
E = 98.50'
P.C. = Sta. 51+22.56
P.T. = Sta. 64+00.85

Record ℄ R.O.W. Lawrence Road Curve Data

Δ = 33°58'
R = 2152.55'
T = 657.43'
L = 1276.00'
E = 98.25'





LEGEND

SECTION CORNER
QUARTER SECTION CORNER
SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTER LINE
PROPOSED CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
120.32' MEASURED DIMENSION
129.32'(Comp.) COMPUTED DIMENSION
(129.32') RECORD DIMENSION
EXISTING BUILDING

SCALE: 1"=40'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 46N., RANGE 5E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12th DAY OF February 2015 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2016
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
47+90.92	10.58' Rt.	2,101,303.564	900,693.096
47+91.14	35.00' Lt.	2,101,303.742	900,647.518
47+91.14	35.00' Rt.	2,101,303.799	900,717.518
47+91.14	55.00' Lt.	2,101,303.725	900,627.518
47+91.14	55.00' Rt.	2,101,303.816	900,737.518
48+21.35	55.00' Rt.	2,101,334.027	900,737.493
48+21.35	60.00' Rt.	2,101,334.031	900,742.493

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

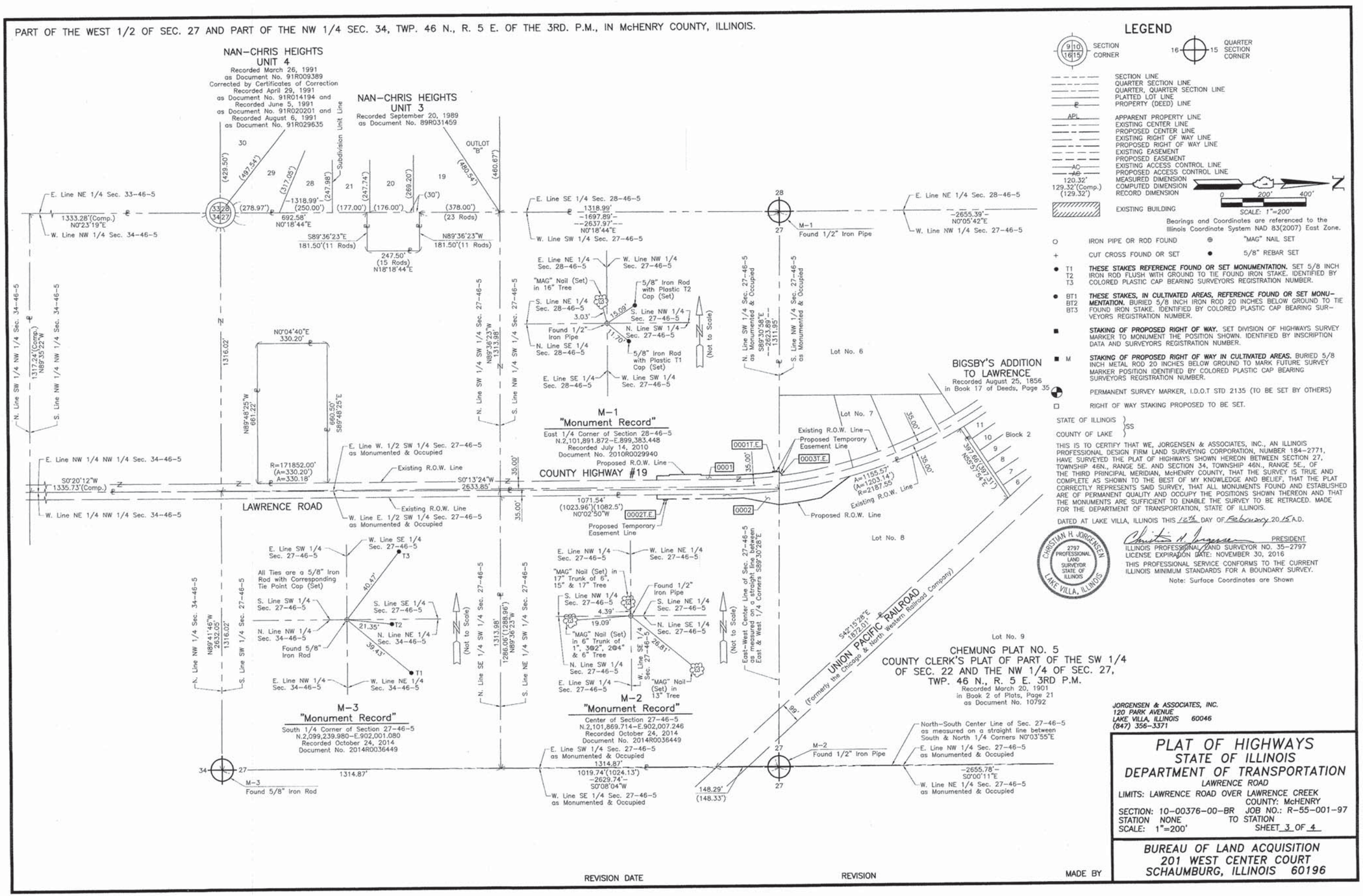
LAWRENCE ROAD
LIMITS: LAWRENCE ROAD OVER LAWRENCE CREEK
COUNTY: McHENRY
SECTION: 10-00376-00-BR JOB NO.: R-55-001-97
STATION 47+00 TO STATION 58+00
SCALE: 1"=40' SHEET 2 OF 4

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

PEN TABLE = #PENTBL.tbl
PLOT DRIVER = #PLTDRVR

PART OF THE WEST 1/2 OF SEC. 27 AND PART OF THE NW 1/4 SEC. 34, TWP. 46 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER (9 10 / 16 15)
- QUARTER SECTION CORNER (16 — 15)
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 120.32' — MEASURED DIMENSION
- 129.32'(Comp.) (129.32') — COMPUTED DIMENSION / RECORD DIMENSION
- EXISTING BUILDING

0 200' 400' N

SCALE: 1"=200'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 — ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 — ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ — ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◔ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 27, TOWNSHIP 46N., RANGE 5E. AND SECTION 34, TOWNSHIP 46N., RANGE 5E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 16TH DAY OF February 20 15 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2016
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
LAWRENCE ROAD

LIMITS: LAWRENCE ROAD OVER LAWRENCE CREEK
COUNTY: McHENRY
SECTION: 10-00376-00-BR JOB NO.: R-55-001-97
STATION NONE TO STATION
SCALE: 1"=200' SHEET 3 OF 4

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

DIRECTORY = L:\McHenry\Civil\161101\Draw\CADD_Sheets\sht-PDH-03.dgn
USER NAME = Mike Moes

CMT License No. 184-000613 © Copyright 2015, Inc.

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

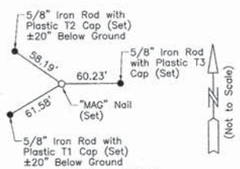
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

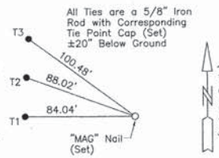
SCALE: N.T.S. | SHEET 3 OF 4 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	12
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

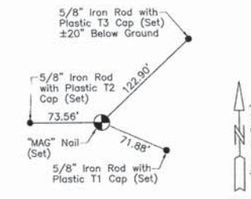
PART OF THE WEST 1/2 OF SEC. 27, TWP. 46 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



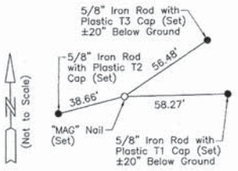
Existing P.O.T Lawrence Road
Sta. 40+51.29
N.2,100,563.925–E.900,983.127



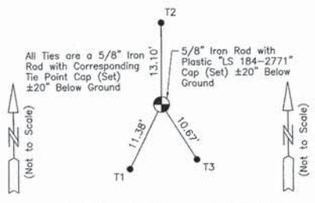
Begin Project Lawrence Road
Sta. 47+91.14
N.2,101,303.770–E.900,682.518



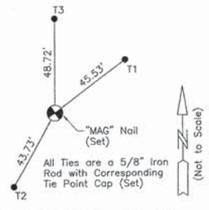
Existing & Proposed P.C. #1 Lawrence Road
Sta. 51+22.56
N.2,101,635.190–E.900,682.245



End Project Lawrence Road
Sta. 57+00.00
N.2,102,205.666–E.900,604.787



Existing & Proposed P.I. #1 Lawrence Road
Sta. 57+81.18
N.2,102,293.805–E.900,681.703



Existing & Proposed P.T. #1 Lawrence Road
Sta. 64+00.85
N.2,102,839.357–E.900,312.722

LEGEND

SECTION CORNER (9 10 16 15) — QUARTER SECTION CORNER (16 — 15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
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- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 120.32' — MEASURED DIMENSION
- 129.32'(Comp.) — COMPUTED DIMENSION
- (129.32') — RECORD DIMENSION
- EXISTING BUILDING

0 100' 200' N

SCALE: 1"=100'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 — ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 — ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◔ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 46N., RANGE 5E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12th DAY OF February 2015 A.D.

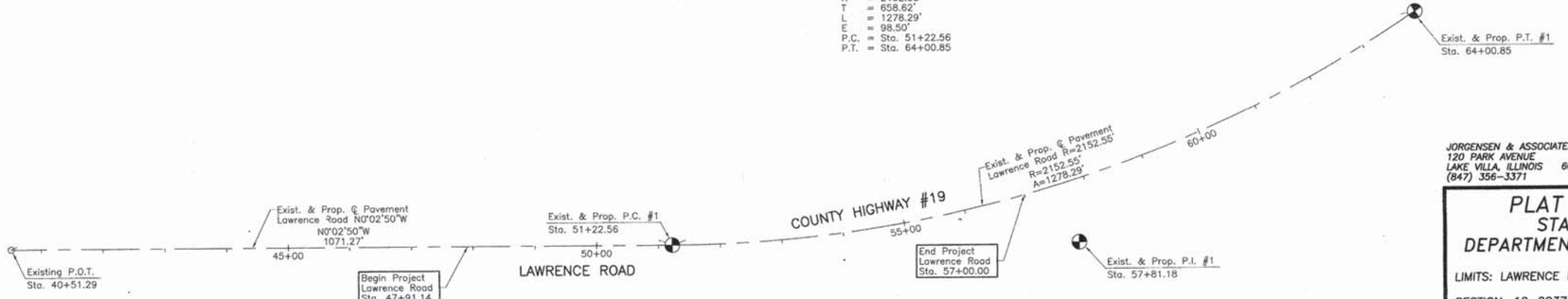
Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2016
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Note: Surface Coordinates are Shown

Existing & Proposed ℄ Pavement Lawrence Road Curve #1

P.I. = Sta. 57+81.18
Δ = 34°01'30"
R = 2152.55'
T = 658.62'
L = 1278.29'
E = 98.50'
P.C. = Sta. 51+22.56
P.T. = Sta. 64+00.85



JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356–3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAWRENCE ROAD

LIMITS: LAWRENCE ROAD OVER LAWRENCE CREEK
COUNTY: McHENRY
SECTION: 10–00376–00–BR JOB NO.: R–55–001–97
STATION 40+51.29 TO STATION 64+00.85
SCALE: 1"=100' SHEET 4 OF 4

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

PEN TABLE = $PENTBL$s
PLOT DRIVER = $PLTDRV$s

DIRECTORY = L:\McHenryCo\142181\Draw\DA02_Sheets\sht01Plt04.dgn
USER NAME = Mike Maes

CMT License No.: 184-000613 © Copyright CMT, Inc.

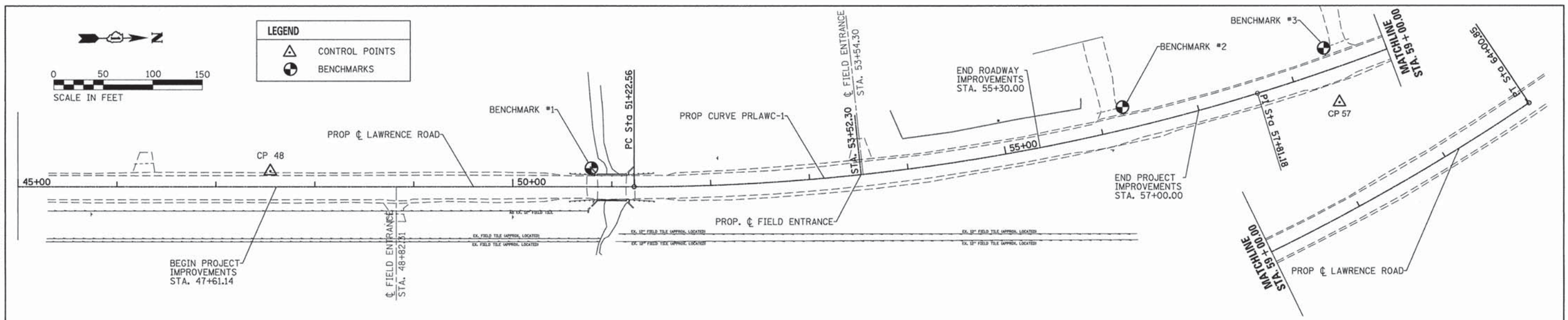
USER NAME = Mike Maes	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 100.0000 '/ in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056–3188

SCALE: N.T.S. | SHEET 4 OF 4 SHEETS | STA. - | TO STA. -

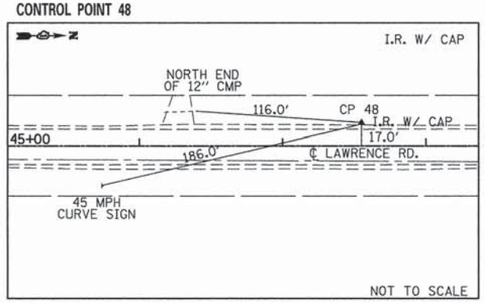
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	13
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



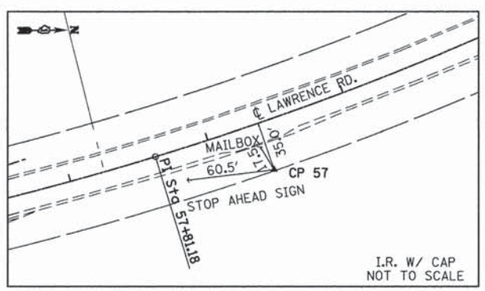
PEN TABLE = #PENTBL5$
PLOT DRIVER = #PLTDRV5$

CONTROL POINTS

CONTROL POINT 48



CONTROL POINT 57



ALIGNMENT INFORMATION

LAWRENCE ROAD
PI, POT INFORMATION

PI, POT	STATION	COORDINATES	
		NORTHING	EASTING
POT 1	27+27.30	2099239.928	900684.218
PC	51+22.56	2101635.190	900682.245
PI	57+81.18	2102293.805	900681.703
PT	64+00.85	2102839.357	900312.772

HORIZONTAL AND VERTICAL CONTROL

PT.	DESC.	NORTHING	EASTING	ELEV.	STATION	OFFSET
C.P. 48	I.R. W/CAP	2101267.668	900666.717	884.99	47+55.05	15.83' LT
C.P. 57	I.R. W/CAP	2102347.750	900596.555	892.88	58+37.07	34.27' RT

BENCHMARKS

PT.	DESCRIPTION	ELEV.	STATION	OFFSET	NOTES
TEMP BM#1	CUT SQUARE "□" IN TOP OF SW WINGWALL	887.14	50+79.52	18.80' LT	BM #1 WILL BE DESTROYED DURING THIS PROJECT
TEMP BM#2	TOP OF PIPE NORTH END OF CULVERT ⌀ 7615	886.35	56+25.61	22.48' LT	
TEMP BM#3	TOP OF PIPE SOUTH END OF CULVERT ⌀ 7617	891.39	58+39.88	22.59' LT	

BENCHMARK STATIONS AND OFFSETS ARE APPROXIMATE

CURVE DATA
PROP. CURVE PRLAWC-1
PI STA. = 57+81.18
△ = 34° 01' 30" (LT)
D = 2° 39' 42"
R = 2,152.55'
T = 658.62'
L = 1,278.29'
E = 98.50'
DESIGN SPEED = 55 MPH
e = VARIES 1.5 TO 6.5 SB
1.5 & VARIES NB
T.R. = 26'
S.E. RUN = 26'
P.C. STA = 51+22.56
P.T. STA = 64+00.85

NOTES

1. ALL STATION AND OFFSET REFERENCES ARE TO THE PROPOSED ROADWAY CENTERLINE UNLESS OTHERWISE NOTED.
2. ALL BEARING ARE REFERENCED TO THE ILLINOIS STATE PLANE NAD 83, EAST ZONE COORDINATE SYSTEM
3. ALL OF THE ELEVATIONS SHOWN ON THE PLANS ARE U.S.G.S. NAVD 88 MEAN SEA LEVEL DATUM.

DIRECTORY = L:\McHenry\2014218\1\Draw\CADD_Sheets\ATB.dgn
USER NAME = Mike Moes

CMT
License No. 184-000613

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCHMARKS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=100' | SHEET 1 OF 1 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	14
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

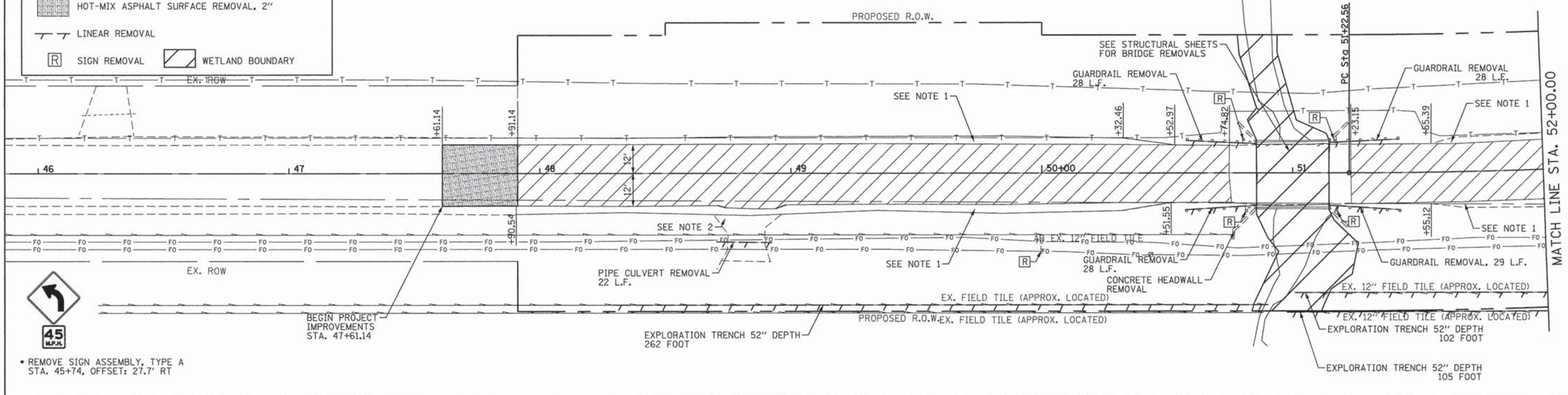
LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- LINEAR REMOVAL
- R SIGN REMOVAL
- WETLAND BOUNDARY

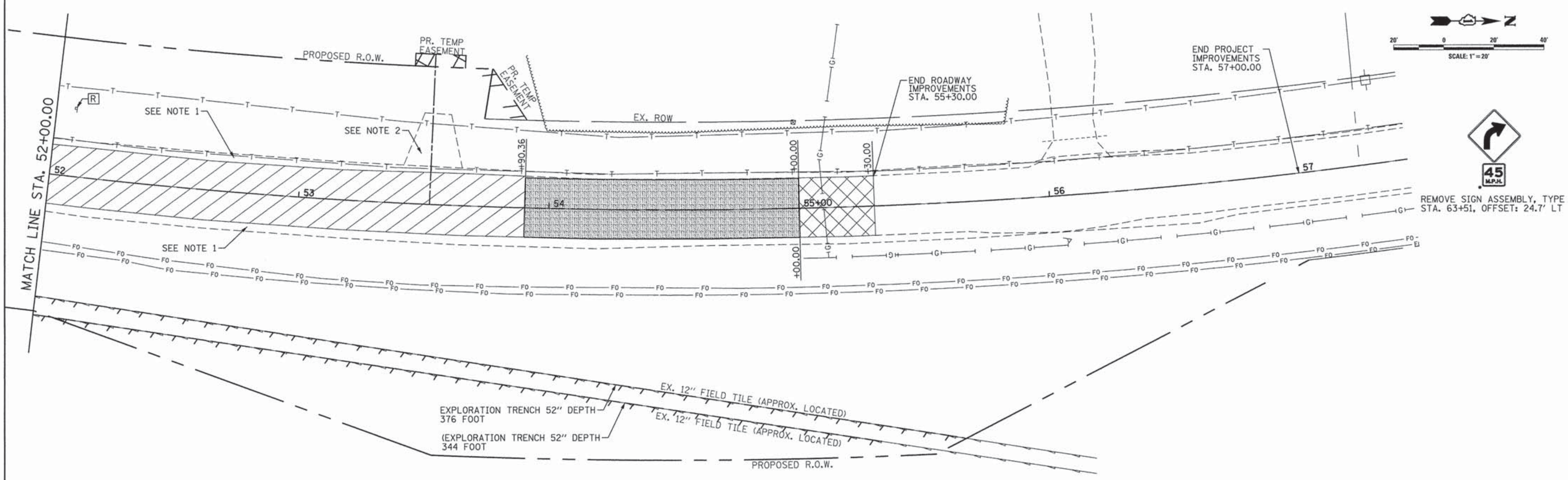
NOTE 1: AGGREGATE SHOULDER REMOVAL AND DRIVEWAY REMOVAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION

NOTE 2: FIELD ENTRANCE TO BE REMOVED AND INCLUDED IN THE COST OF EARTH EXCAVATION.

NOTE 3: SEE DRAINAGE AND UTILITY SHEETS FOR EXISTING AND PROPOSED UTILITY INFORMATION.



* REMOVE SIGN ASSEMBLY, TYPE A STA. 45+74, OFFSET: 27.7' RT



CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -
		DRAWN - KWS	REVISED -
	PLOT SCALE = 20.0009 ' / in.	CHECKED - CMC	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY REMOVAL PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 47+61.14 TO STA. 57+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	15
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

PIN: 01-27-300-009
HELFERS ROBERT L/KAREN J

PIN: 01-27-300-008
CAROL A. VOLKENING TRUST NO. 1

TRIBUTARY OF LAWRENCE CREEK

PIN: 01-27-300-009
HELFERS ROBERT L/KAREN J

℄ EXIST PROP STRUCTURE
STA. 51+00.00
STRUCTURE NO. 056-3188

EXISTING WETLANDS
DO NOT DISTURB

N

SCALE: 1" = 20'

TRAFFIC TERMINAL BARRIER, TYPE 6A

PROPOSED R.O.W.

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (TYP.)

EX. ROW

LAWRENCE ROAD

EXIST/PROP ℄ LAWRENCE RD

BEGIN PROJECT IMPROVEMENTS STA. 47+61.14

12' F.E. STA. 46+29.23

12' F.E. STA. 48+31.35

PC Sta 51+22.56

TRAFFIC BARRIER TERMINAL, TYPE 6A

MATCH LINE STA. 52+00.00

PROPOSED CHANNEL BOTTOM

EXISTING WETLANDS
DO NOT DISTURB

PIN TABLE = #PONTIUS@
PLOT DRIVER = #PLTDRV$@

LEGEND

RESURFACING — BUTT JOINT RESURFACING

Ⓐ PROPOSED FULL DEPTH PAVEMENT
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4 3/4"
AGGREGATE SUBGRADE IMPROVEMENT, 12"

Ⓑ PROPOSED PAVEMENT RESURFACING
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
LEVELING BINDER (MACHINE METHOD), N50

Ⓒ PROPOSED HOT-MIX ASPHALT SHOULDER
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4 3/4"
AGGREGATE BASE COURSE, TYPE B, 6"

Ⓓ PROPOSED AGGREGATE SHOULDER
AGGREGATE SHOULDERS, TYPE B 8"

Ⓔ PROPOSED BRIDGE APPROACH PAVEMENT
(SEE STRUCTURAL PLANS)

Ⓕ PROPOSED BRIDGE REPLACEMENT
(SEE STRUCTURAL PLANS)

Ⓖ PROPOSED DRIVEWAY
AGGREGATE SURFACE COURSE, TYPE B, 8"

K = 304
190.00' V.C.

K = 137
85.00' V.C.

K = 161
165.00' V.C.
SSD = 1134'

EXIST LAWRENCE ROAD PROFILE GRADELINE

PROP LAWRENCE ROAD PROFILE GRADELINE

30' PROP. RESURFACING

BEGIN PROJECT IMPROVEMENTS STA. 47+61.14

VPI STA. 46+62.25
ELEVATION 886.23

VPI STA. 49+00.00
ELEVATION 886.37

VPI STA. 49+67.15
ELEVATION 886.41

VPI STA. 50+77.10
ELEVATION 886.66

VPI STA. 50+85.00
ELEVATION 886.68

VPI STA. 51+00.00
ELEVATION 887.73

VPI STA. 51+65.17
ELEVATION 886.95

℄ BK. S. ABUT.
BK. N. ABUT.

40'
FACE TO FACE ABUTMENTS

STA. 50+48.42

STA. 51+51.58

102.5' PROP. APP. PVMT LIMITS

+57.50 EL. 886.35

+82.50 EL. 886.66

+17.50 EL. 887.17

+82.50 EL. 887.45

886.31

-0.56% +0.06% 0.06% 0.68% -0.06% +0.51% 0.20% 0.68% -0.34% 0.17% -0.02%

	46+00	46+50	47+00	47+50	48+00	48+50	49+00	49+50	50+00	50+50	51+00	51+50	52+00
EX. ELEV.	886.61	886.52	886.44	886.38	886.33	886.30	886.29	886.28	886.29	886.30	886.31	886.31	886.32
PR. ELEV.		886.52	886.44	886.38	886.33	886.30	886.29	886.28	886.29	886.30	886.31	886.32	886.34
											886.34	886.35	886.36
											886.36	886.38	886.38
											886.36	886.44	886.43
											886.36	886.53	886.49
											886.38	886.64	886.58
											886.43	886.78	886.68
											886.49	886.92	886.77
											886.58	887.05	886.82
											886.68	887.19	886.84
											886.77	887.31	886.82
											886.82	887.40	886.87
											886.84	887.48	886.90
											886.82	887.52	886.94
											886.87	887.54	886.94
											886.90	887.54	886.92
											886.94	887.51	887.39
											886.94	887.46	
											886.92	887.39	

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USER NAME =

CMT
License No. 184-000613

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

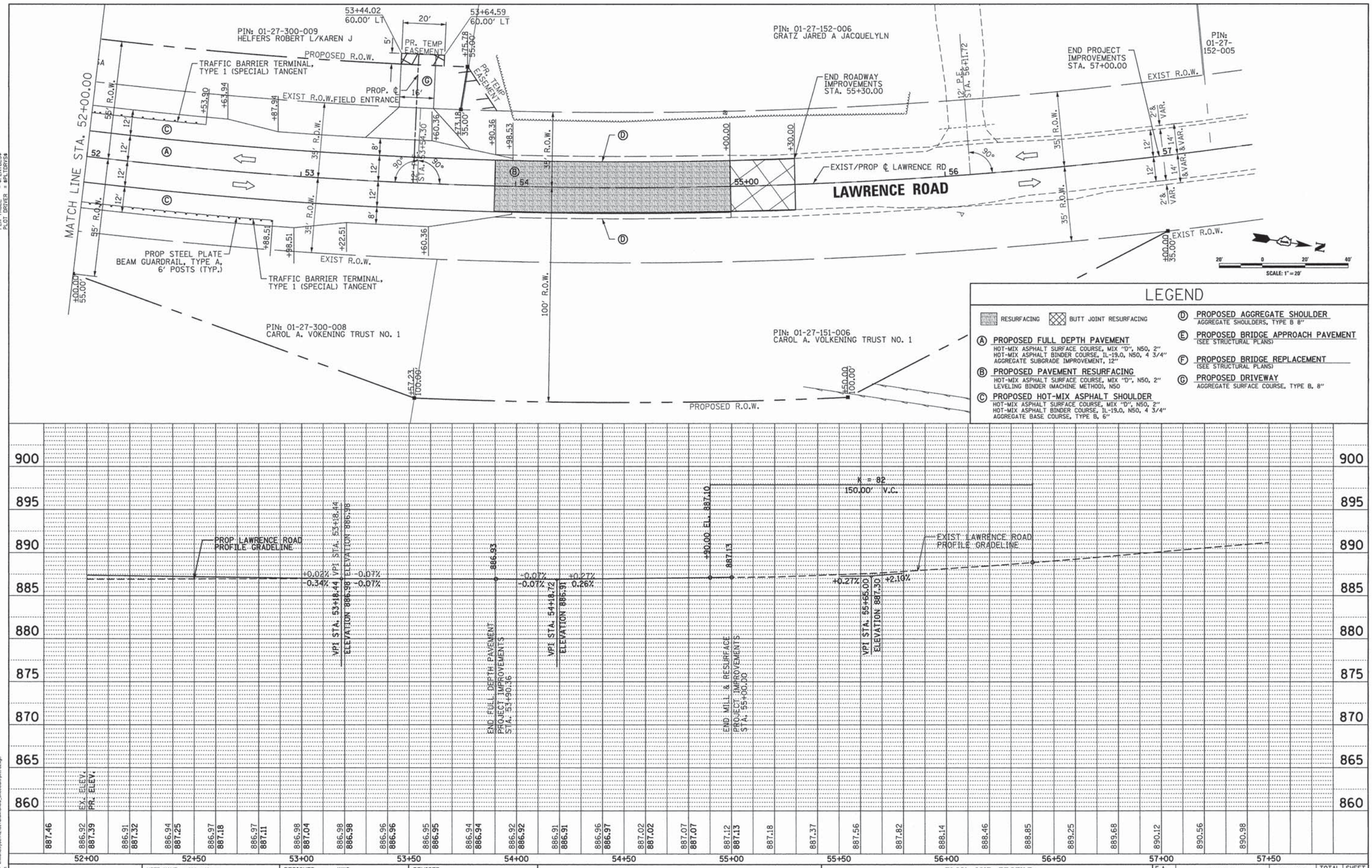
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 45+83.70 TO STA. 52+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	16
	CONTRACT NO.			
	ILLINOIS FED. AID PROJECT			

PEN TABLE = #PENTABLE#
PLOT DRIVER = #PLTDRIVER#



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USER NAME = #

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = Mike Maas	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

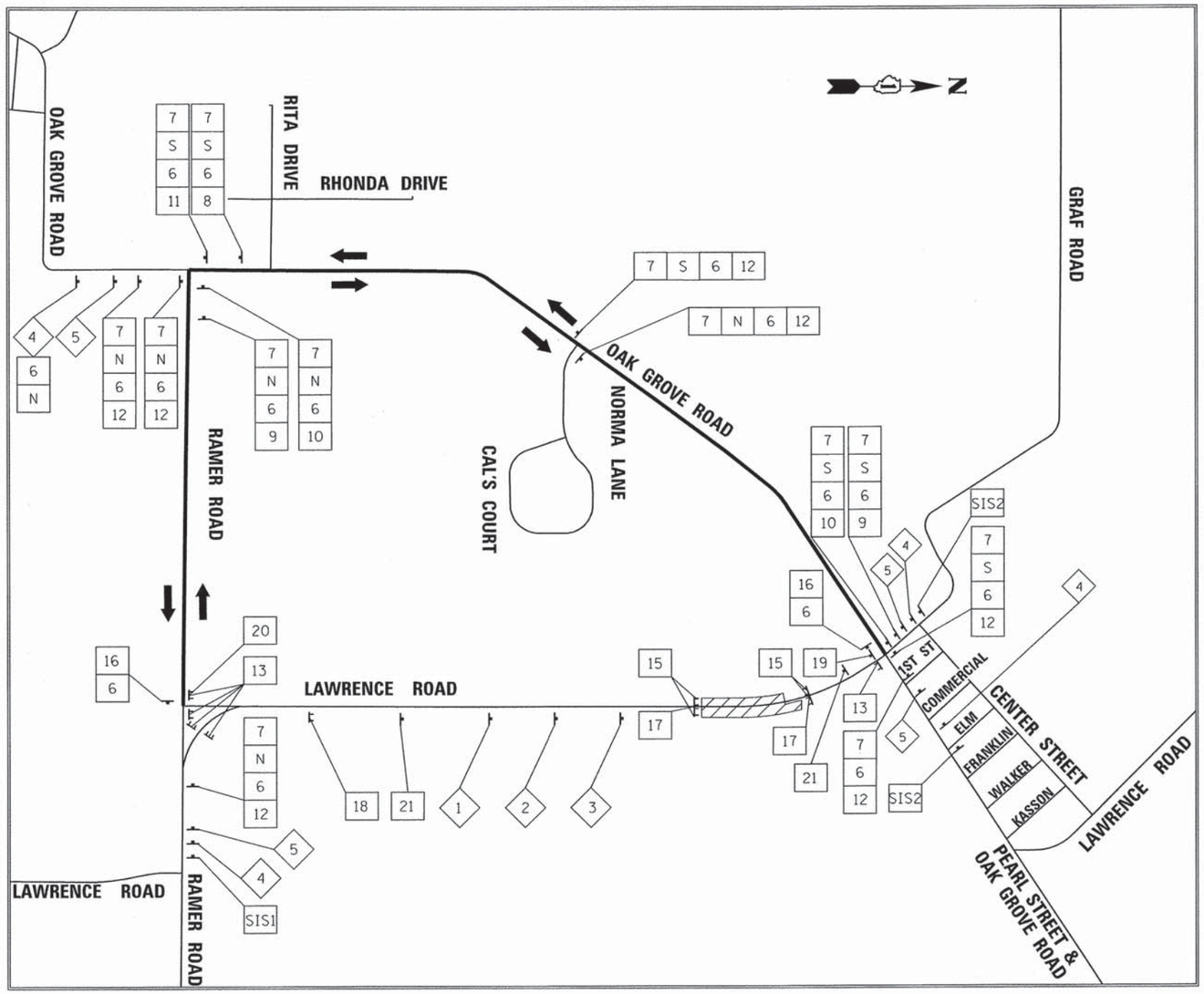
PLAN AND PROFILE
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 52+00.00 TO STA. 57+50.00

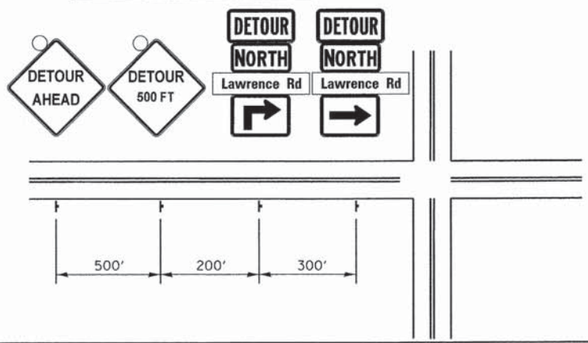
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	17
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVR$

DETOUR PLAN



TYPICAL DETOUR SIGN SPACING



SCHEDULE OF DETOUR SIGNS

SIGN NO.	SIGN	MUTCD CODE	SIZE
1	ROAD CLOSED AHEAD	W20-3 (O) (W/FLASHING LIGHT)	48"X48"
2	ROAD CLOSED 1000 FT	W20-3 (O) (W/FLASHING LIGHT)	48"X48"
3	ROAD CLOSED 500 FT	W20-3 (O) (W/FLASHING LIGHT)	48"X48"
4	DETOUR AHEAD	W20- (O) (W/FLASHING LIGHT)	48"X48"
5	DETOUR 500 FT	W20-2 (O) (W/FLASHING LIGHT)	48"X48"
6	Lawrence Rd	SPECIAL (O)	
7	DETOUR	M4-8 (O)	24"X12"
8		M5-1L (O)	30"X18"
9		M5-1R (O)	30"X18"
10		M6-1R (O)	30"X18"
11		M6-1L (O)	30"X18"
N	NORTH	M3-1 (O)	24"X12"
S	SOUTH	M3-3 (O)	24"X12"
12		M6-3 (O)	30"X18"
13	ROAD CLOSED TO THRU TRAFFIC (TYPE III MOUNTED)	R11-4	60"X30"
14	NOT USED		
15	ROAD CLOSED (TYPE III MOUNTED)	R11-2	48"X30"
16	END DETOUR		24"x18"
17	BRIDGE OUT	R11-2	48"X30"
18	BRIDGE OUT 1 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3b	60"X30"
19	DETOUR	M4-10R	
20	DETOUR	M4-10L	
21	CHANGABLE MESSAGE SIGN ALERTING PUBLIC OF ROAD CLOSURE DATE PRIOR TO PROJECT START DATE		
SIS1	Lawrence Road BRIDGE CLOSED TO THRU TRAFFIC USE Ramer Road TO Oak Grove Road	SPECIAL INFORMATION SIGNING-1	
SIS2	Lawrence Road BRIDGE CLOSED TO THRU TRAFFIC USE Oak Grove Road TO Ramer Road	SPECIAL INFORMATION SIGNING-2	

SPECIAL INFORMATION SIGNING (SIS1 AND SIS2) ARE TO BE INCLUDED AS PART OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEM.

LEGEND

- CONSTRUCTION WARNING SIGN, WITH FLASHING LIGHT NUMBER DENOTES TYPE.
- DETOUR SIGN, NUMBER
- SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE.
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- DETOUR ROUTE
- TRAFFIC DIRECTION

SPECIAL DETOUR NOTES

1. SIGN SPACING SHOWN IS APPROXIMATE, AND MAY NEED TO BE ADJUSTED TO FIT FIELD CONDITIONS.
2. SIGNS, SUPPORTS, AND POSITIONING SHALL BE IN ACCORDANCE WITH THE "ILLINOIS MUTCD", LATEST EDITION.
3. ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH THE PROPOSED DETOUR ROUTE SIGNAGE SHALL BE COVERED FOR THE DURATION THAT THE DETOUR IS IN EFFECT.
4. MCHENRY COUNTY DOT SHALL BE NOTIFIED A MINUMUM OF 72 HOURS PRIOR TO THE DETOUR GOING INTO EFFECT, AND IMMEDIATELY FOLLOWING THE REMOVAL OF THE DETOUR.
5. TWO CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON LAWRENCE ROAD PRIOR TO CLOSURE. ONE WILL FACE SOUTHBOUND TRAFFIC, THE OTHER WILL FACE NORTHBOUND TRAFFIC. THESE WILL BE PAID FOR AS CHANGEABLE MESSAGE SIGN.

DIRECTORY = L:\McHenry\2014\181\Draw\CADD_Sheets\detour.dgn
USER NAME = Jason Rostburd

CMT
License No. 184-000613

USER NAME = Jason Rostburd	DESIGNED - KWS	REVISED -	
MODEL NAME = Default	DRAWN - KWS	REVISED -	
PLOT SCALE = 1500.0682 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	18
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.

2. PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.

3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCMENT OF HYDROLOGIC DISTURBANCE.

4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.

5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

6. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).

7. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITESTABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

8. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

9. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY.

10. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF MCHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.

11. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.

GENERAL NOTES

1. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES.

2. NO WORK SHALL BE PERMITTED IN FLOWING WATER WITH THE EXCEPTION OF COFFERDAM CONSTRUCTION. PRIORITY SHALL BE GIVEN TO COMPLETION AND STABILIZATION OF WORK IN AND NEAR CRITICAL AREAS (WETLANDS, STREAMS, CREEKS, WATERS OF THE U.S., ETC.) ONCE WORK HAS BEGUN. ALL CRITICAL AREAS SHOULD RECEIVE TEMPORARY OR PERMANENT STABILIZATION AT THE END OF EACH DAY.

3. TEMPORARY DITCH CHECKS SHALL BE TRIANGULAR GRID TYPE BY GEORIDGE OR EQUAL.

4. CONCRETE WASHOUT LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE. WASHOUTS SHALL NOT BE LOCATED IN WETLANDS OR AREAS OF CONCENTRACTED FLOW. WASHOUTS SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS IN THE PLANS, OR IN A MANNER MEETING THE APPROVAL OF THE ENGINEER. CONCRETE WASHOUTS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED WORK.

5. ALL ADJACENT STREETS SHALL BE MONITORED AND KEPT FREE OF DIRT AND DEBRIS. THE CONTRACTOR SHALL CLEAN THE ADJACENT PAVEMENT OF ALL DIRT AND DEBRIS AT THE END OF EACH DAY'S OPERATIONS AND WHEN DIRECTED BY THE ENGINEER (ART. 107.15).

6. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

7. THE MCHENRY AND LAKE SOIL AND WATER CONSERVATION DISTRICT MUST BE NOTIFED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER OR THE SOIL EROSION AND SEDIMENTATION CONTROL INSPECTOR. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

9. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUBCONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

INSPECTION:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON. A QUALIFIED PERSON SHALL BE DEFINED AS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSWI), OR OTHER KNOWLEDGEABLE PERSON.

2. ALL MEASURES SHALL BE INSPECTED A MINIMUM OF ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF APRECIPITATION EVENT OF 1/2-INCH OR GREATER, OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY.

3. THE CONTRACTOR SHALL PERMIT SITE ACCESS TO REPRESENTATIVES OF THE ENGINEER, OWNER, SOIL AND WATER CONSERVATION DISTRICT, ENVIRONMENTAL PROTECTION AGENCY, AND U.S. ARMY CORPS OF ENGINEERS.

DEWATERING:

1. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR CONSIDERATION BY THE ENGINEER AND THE SOIL AND WATER CONSERVATION DISTRICT. DEWATERING ACTIVITIES SHALL NOT COMMENCE UNTIL A FAVORABLE REVIEW OF THE DEWATERING PLAN HAS BEEN RECIEVED.

2. ALL WATERS SHALL BE FILTERED BY UTILIZING FILTER BAGS OR AN ALTERNATIVE APPROVED BY THE ENGINEER AND SOIL AND WATER CONSERVATION DISTRICT.

3. ALL FILTER BAGS SHALL BE PLACED ON LEVEL GROUND AND HAVE SECONDARY CONTAINMENT.

4. DEWATERING FOR ANY AND ALL CONSTRUCTION ACTIVITIES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICES BID FOR THE RELATED WORK ITEM REQUIRING DEWATERING. DEWATERING INCLUDES ALL MEANS, METHODS, AND MISCELANEOUS ITEMS REQUIRED TO PROVIDE FILTRATION OF WATERS PRIOR TO DISCHARGE.

5. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES, STORMWATER STRUCTIRES, DITCHES, TURN AREA OR SOUTH LAWRENCE CREEK IS PROHIBITED.

6. THE SITE SHALL BE DEWATERED FOR WORK IN THE DRY AND DEWATERING SHALL BE TEMPORARY ONLY

MAINTENANCE:

1. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION AS DETERMINED BY THE ENGINEER INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

   A. PERIMETER EROSION BARRIER (SILT FENCE) - MAINTAIN AND REPAIR TEARS, GAPS, UNDERMINING. REPLACE BROKEN OR MISPLACED STAKES. SEDIMENT ACCUMULATION SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE HEIGHT OF THE BARRIER.

   B. DITCH CHECKS - SEDIMENT ACCUMULATION SHALL BE REMOVED WHEN IT HAS REACHED 50% IF THE HEIGHT OF THE STRUCTURE OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS MORE STRINGENT.

   C. EROSION CONTROL BLANKET - MAINTAIN AND REPAIR DAMAGE DUE TO WATER, SOIL DISPLACEMENT, IMPROPER INSTALLATION.

   D. CONCRETE WASHOUT - ALL CONTAINED MATERIALS SHALL BE REMOVED AND DISPOSED OF AT A LEGAL OFF-SITE LOCATION WITH THE FACILITIY HAS REACHED 50% CAPACITY.

2. MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS ITEMS AS BID.

CONTACT INFORMATION

ARMY CORPS
JULIE RIMBAULT
BIOLOGIST, WEST PERMITS
AND ENFORCEMENT SECTION
U.S. ARMY CORPS OF ENGINEERS-
CHICAGO DISTRICT
231 S. LASALLE STREET, SUITE 1500
CHICAGO, ILLINOIS 60604
312-846-5542

MCHENRY & LAKE SWCD
ED WESKERNA, DISTRICT MANAGER
MCHENRY - LAKE COUNTY SOIL
& WATER CONSERVATION DISTRICT
1648 S. EASTWOOD DRIVE
WOODSTOCK, IL 60098
OFFICE: (815)338-0099 EXT. 3
CELL: (815)703-7063

PEN TABLE = $PENTBLS$
PLOT DRIVER = $PLTDRVS$

DIRECTORY = U:\McHenryCo\14218010\Draw\CADD_Sheets\sht-ersctl-01.dgn
USER NAME = Mike Moss

CMT	USER NAME = Mike Moss	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION & SEDIMENT CONTROL PLAN – GENERAL NOTES LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188
		DRAWN - KWS	REVISED -		
	PLOT SCALE = 1.0000 '/ in.	CHECKED - CMC	REVISED -		
License No. 184-000613 © Copyright CMT, Inc.	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. SHEET 1 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	19
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

PEN TABLE = #PENTBL#$
PLOT DRIVER = #PLTDRV#$

EXISTING WETLANDS DO NOT DISTURB

TRIBUTARY OF LAWRENCE CREEK

PROP. DITCH LINE

PROPOSED R.O.W.

50.00

+00.00

EX ROW

LAWRENCE ROAD

48

49

50+00

MATCH LINE STA. 52+00.00

BEGIN PROJECT IMPROVEMENTS STA. 47+61.14

EXIST. CONTOURS, TYP.

PROP. BRIDGE

PROPOSED CHANNEL BOTTOM

AREA OF PERMANENT WETLAND IMPACT (0.063 ACRE)

EXISTING WETLANDS DO NOT DISTURB

END ROADWAY IMPROVEMENTS STA. 55+30.00

END PROJECT IMPROVEMENTS STA. 57+00.00

SCALE: 1" = 20'

PROP. DITCH LINE, TYP.

PR. TEMP EASEMENT

+30.29

PR. TEMP EASEMENT

PROPOSED R.O.W.

EX ROW

55+00

LAWRENCE ROAD

54

53

52

56

51

MATCH LINE STA. 52+00.00

EX ROW

PROPOSED R.O.W.

PROP. COMPENSATORY STORAGE AREA

+29.01

LEGEND:

- DIRECTION OF TRIB. FLOW
- PROPOSED DRAINAGE FLOW
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY SEEDING/ TEMPORARY EROSION CONTROL BLANKET
- AREA OF PERMANENT IMPACT WATERS OF THE US

DIRECTORY = L:\McHenry\Cont\42180\Draw\CADD_Sheets\plt-ersosh02.dgn
USER NAME = Mike Moes

CMT
License No. 184-000512

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -
	DRAWN - KWS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL EROSION & SEDIMENT CONTROL PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 2 OF 9 SHEETS | STA. 47+61.14 TO STA. 57+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	20
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVR$

SUGGESTED SEQUENCE OF CONSTRUCTION:

STAGE I

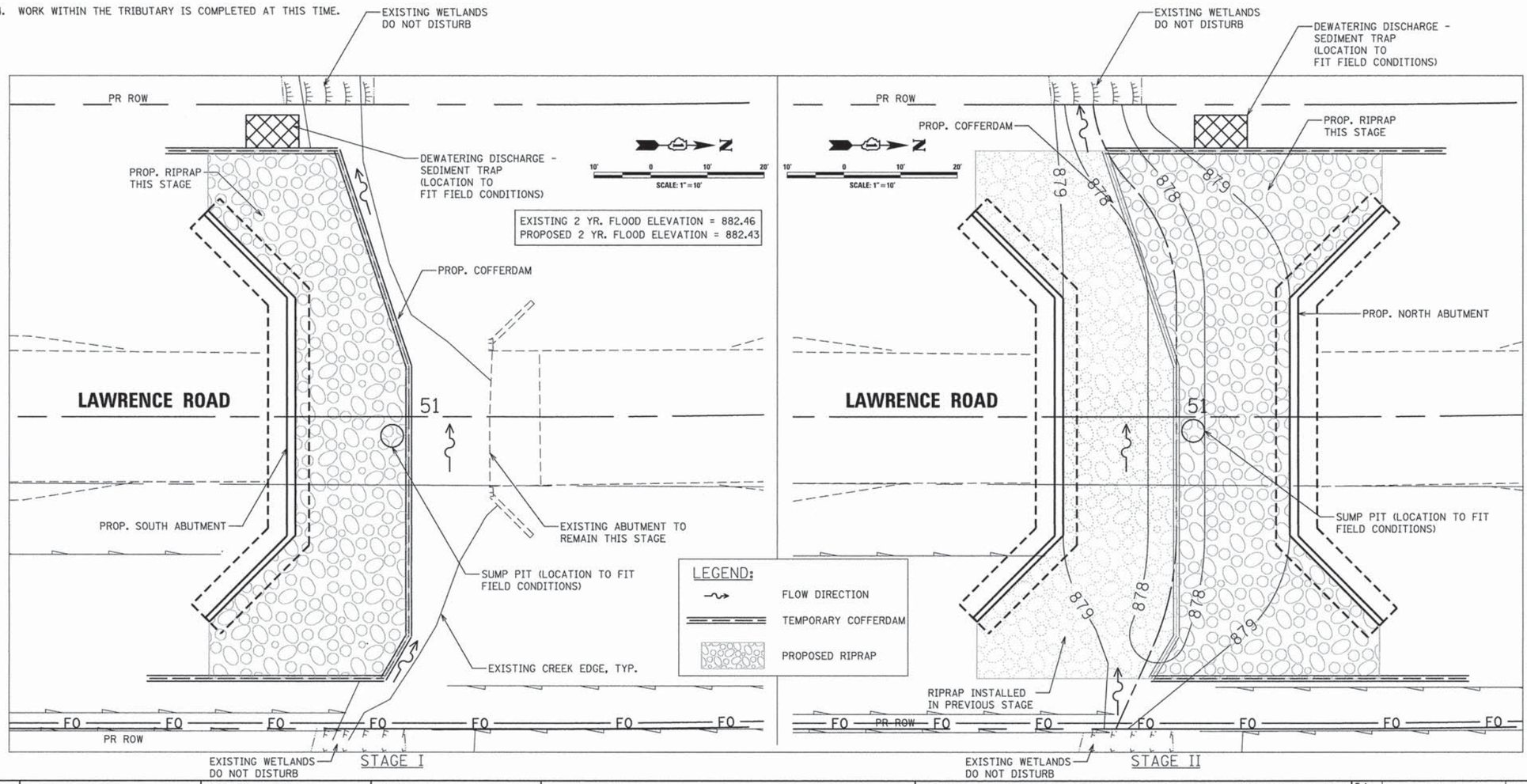
1. CONTRACTOR SHALL EXCAVATE BEHIND THE EXISTING BRIDGE ABUTMENTS TO RELIEVE SOIL PRESSURE.
2. BRIDGE DECK SHALL BE REMOVED IN A MANNER SUCH THAT DEBRIS AND SEDIMENT ARE NOT DEPOSITED IN THE WATERWAY. ANY DEBRIS THAT ENTERS THE WATERWAY SHALL BE REMOVED IMMEDIATELY.
3. INSTALL COFFERDAM IN TRIBUTARY AND INITIATE DEWATERING ACTIVITIES. INSTALL SUMP PIT AND FILTRATION TO COMPLETELY DEWATER THE WORK AREA FOR WORK IN THE DRY.
4. DEMOLISH AND RECONSTRUCT ABUTMENT WITHIN COFFERDAM. INSTALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL (RIPRAP) WITHIN THE COFFERDAM.

STAGE II

1. COFFERDAM WILL BE RELOCATED SUCH THAT THE FLOW OF WATER IS THROUGH THE STABILIZED TRIBUTARY BED. INITIATE DEWATERING IN WORK AREA.
2. DEMOLISH AND RECONSTRUCT THE ABUTMENT WITHIN THE COFFERDAM. INSTALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL (RIPRAP) WITHIN THE COFFERDAM.
3. REMOVE THE COFFERDAM.
4. WORK WITHIN THE TRIBUTARY IS COMPLETED AT THIS TIME.

NOTES:

1. IF THE CONTRACTOR AMENDS THE SUGGESTED METHOD OF CONSTRUCTION, THE ACTUAL METHOD OF CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL FROM THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT.
2. CONTRACTOR SHALL BEAR ALL LIABILITY AND PENALTIES FOR WETLAND DISTURBANCE BEYOND WHAT IS SHOWN IN THE PLANS.
3. THE LOCATION OF A SUMP PIT FOR DEWATERING MAY VARY TO FIT FIELD CONDITIONS. THE METHOD OF DISCHARGE FROM THE SUM PIT SHALL BE APPROVED BY THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT. ALL DISCHARGES SHALL BE ON ENERGY DISSIPATING SURFACES, AND ALL WATER SHALL BE FILTERED BY THE USE OF SEDIMENT/FILTER BAGS PRIOR TO THE WATER RETURNING TO THE TRIBUTARY. THE INSTALLATION OF THE SUMP PIT, DISSIPATION SURFACES, FILTRATION SYSTEM AND ALL OTHER ASSOCIATED DEWATERING ACTIVITIES SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED WORK OF REMOVING THE EXISTING STRUCTURE.



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USER NAME = Mike Moes

CMT License No. 184-000613	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -
		DRAWN - KWS	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - CMC	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

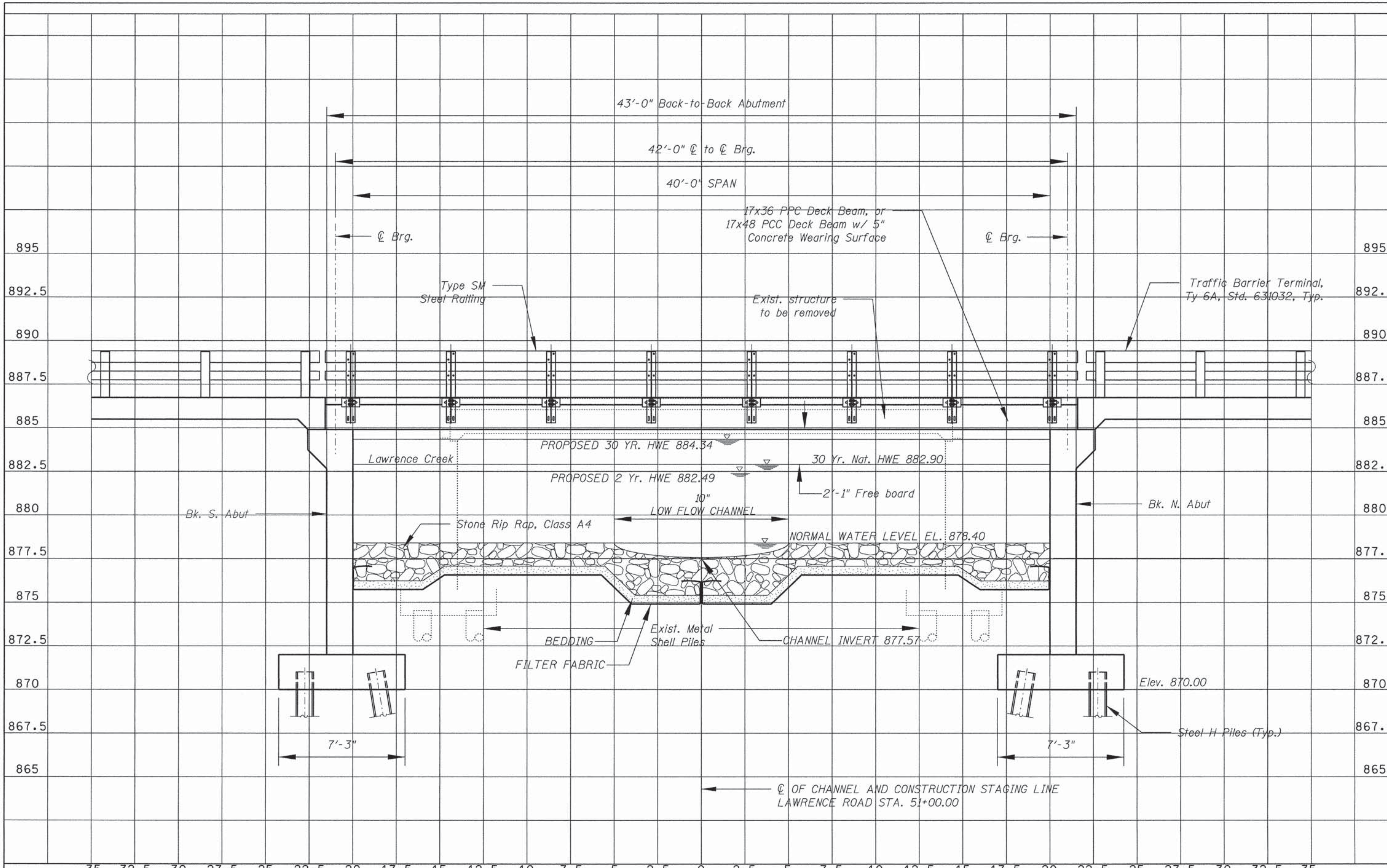
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL EROSION & SEDIMENT CONTROL PLAN – CONSTRUCTION SEQUENCE
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=10' | SHEET 3 OF 9 SHEETS | STA. | TO STA.

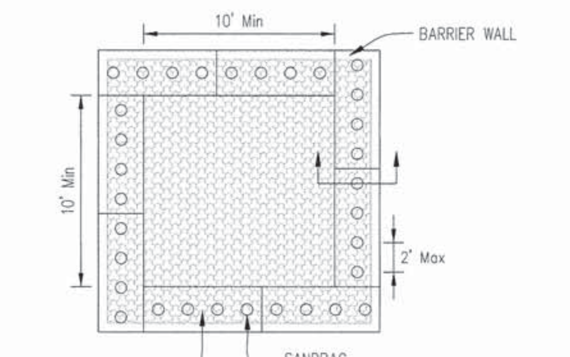
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	21
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

84

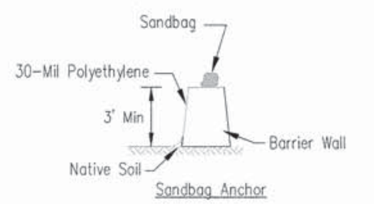


CMT	USER NAME = Mike Moss	DESIGNED - ERD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION & SEDIMENT CONTROL PLAN – ELEVATION LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK STRUCTURE NO. 056-3188
		DRAWN - ERD	REVISED -		
	PLOT SCALE = 2.5000 '/ in.	CHECKED - CMC	REVISED -		
Licence No. 184-000613	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -		SCALE: Scale · SHEET NO. 4 OF 9 SHEETS · STA. · TO STA.

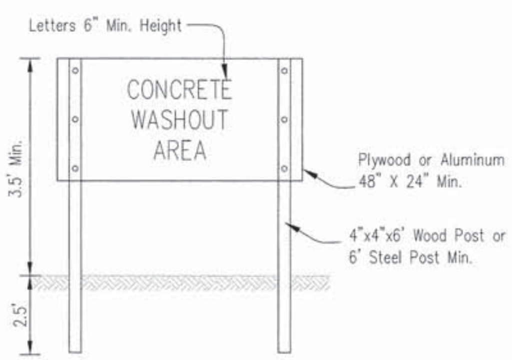
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	22
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



PLAN VIEW



BARRIER WALL ANCHOR SECTION



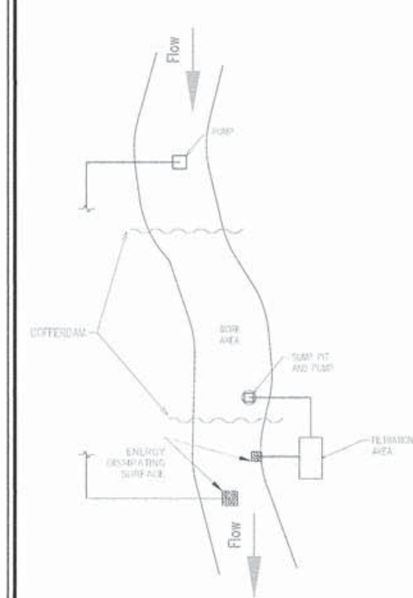
SIGN DETAIL

NOTES:

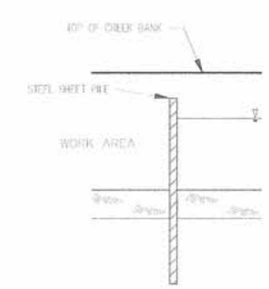
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

File No. / Drawing No.			Date
IUM-654BW	TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL	Designed	
		Drawn B. JOHNSON	6/08
		Checked	
		Approved	

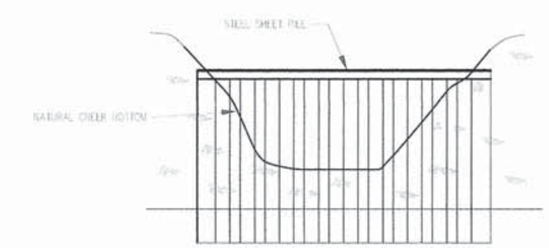
STEEL SHEET PILE COFFERDAM



PLAN VIEW



PROFILE



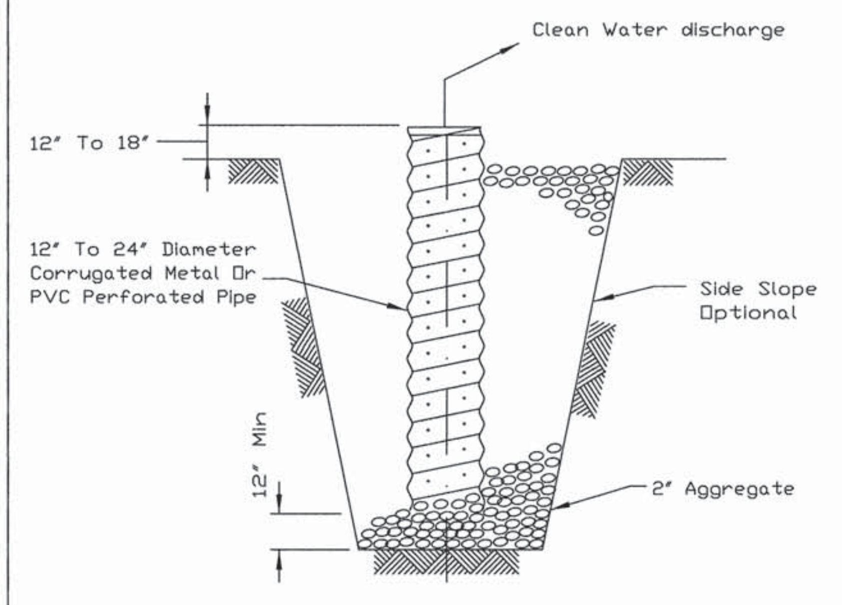
CROSS-SECTION

NOTES:

1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES
2. LOCATION FOR SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.

REFERENCE		STANDARD DWG. NO.
Project		IUM-503SS
Designed ____ Date ____		SHEET 7 OF 7
Checked ____ Date ____		DATE 7-09-2012
Approved ____ Date ____		

SUMP PIT PLAN



SECTION

NOTES:

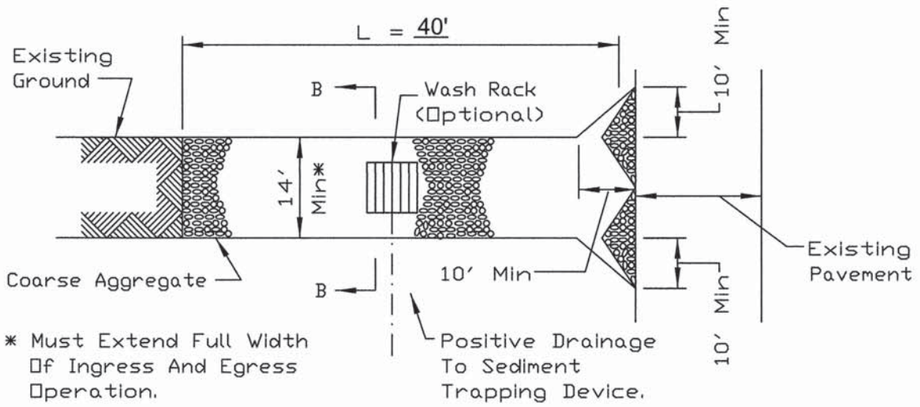
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE		STANDARD DWG. NO.
Project	NRCS Natural Resources Conservation Service	IL-650
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 8-11-94
Approved ____ Date ____		

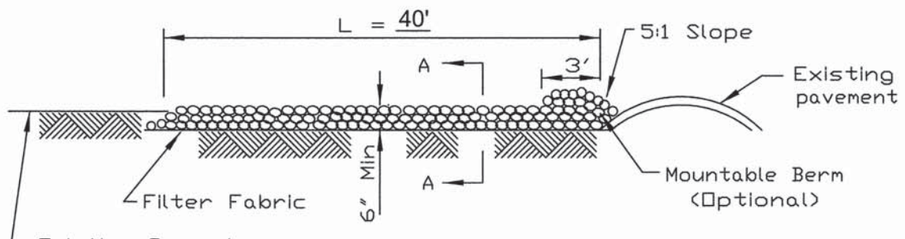
CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION & SEDIMENT CONTROL PLAN – DETAILS LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188
		DRAWN - KWS	REVISED -		
	PLOT SCALE = 1.0000 '/ in.	CHECKED - CMC	REVISED -		
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	23
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



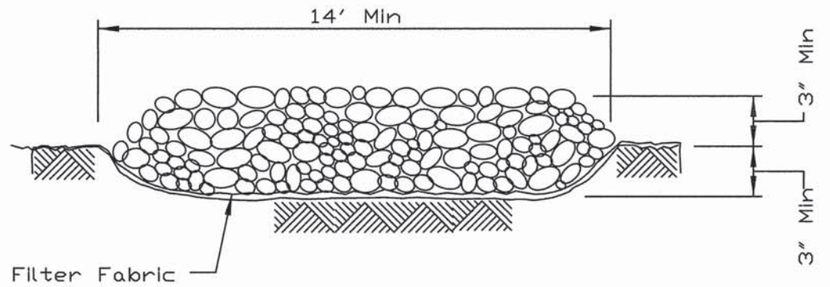
SIDE ELEVATION

NOTES:

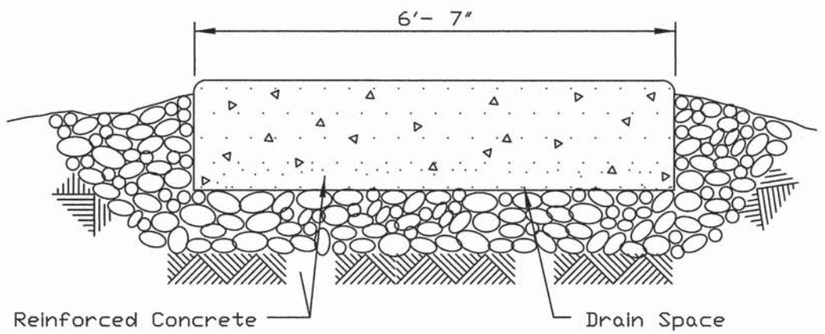
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE		STANDARD DWG. NO.
Project		IL-630
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



SECTION B-B

REFERENCE		STANDARD DWG. NO.
Project		IL-630
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 2 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -
		DRAWN - KWS	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - CMC	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

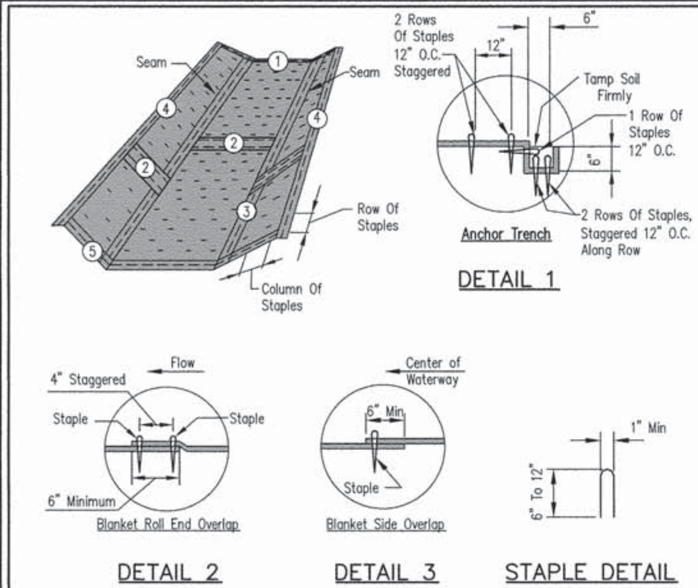
SOIL EROSION & SEDIMENT CONTROL PLAN – DETAILS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 6 OF 9 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	24
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

PEN TABLE = $PENTBL:$
PLOT DRIVER = $PLTDRV:$

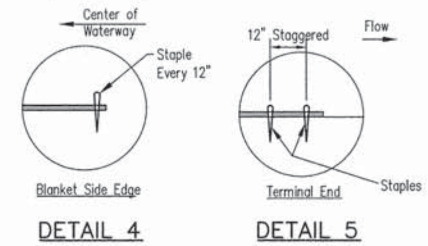
DIRECTORY = L:\Mickey\2014\2801\Draw\CADD_Sheets\bht-erosctl-06.dgn
USER NAME = Mike Moes



NOTES:

1. Install erosion control blanket (ECB) over waterway: Waterway Width______ft
   ECB width ________ft
   length __________ft
   Sta. ______ to ______
2. The erosion control blanket shall consist of a machine produced mat of curled wood or coconut fibers, shall have an expected material life of a least 12 months, shall be new and unused, shall be furnished in rolls, and shall meet the minimum requirements stated in Table 1 below. Alternative material may be used as long as the expected material life is at least 12 months.
3. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.
4. The erosion control blanket shall be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket shall not be stretched.
5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. There shall not be an overlap of blankets at the center of the waterway.
6. The erosion control blanket shall be anchored, overlapped, and stapled according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:
   a. Staples shall be "U" shaped, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.
   b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.
   c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.
   d. Blankets on side slopes shall overlap a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.
   e. The outer edge along sides of the blanket shall be stapled every 12 inches. See Detail 4.
   f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.
   g. Downstream (terminal) end of blanket shall be stapled with a double row of staggered staples 12 inches apart. See Detail 5.

TABLE 1. MINIMUM REQUIREMENTS FOR EROSION CONTROL BLANKET		
(See Note 2)	Coconut Blanket	Wood Fiber Blanket
Type of Fiber	100% coconut fibers	100% curled wood fibers
Weight, lbs/sq. yd	0.50	0.63
Fiber Length	N/A	80% of fibers > 6 in.
Fiber Dimensions	N/A	0.021 in. x 0.042 in.
Netting Netting Required ? ☐ Yes ☐ No	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5" centers.	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting



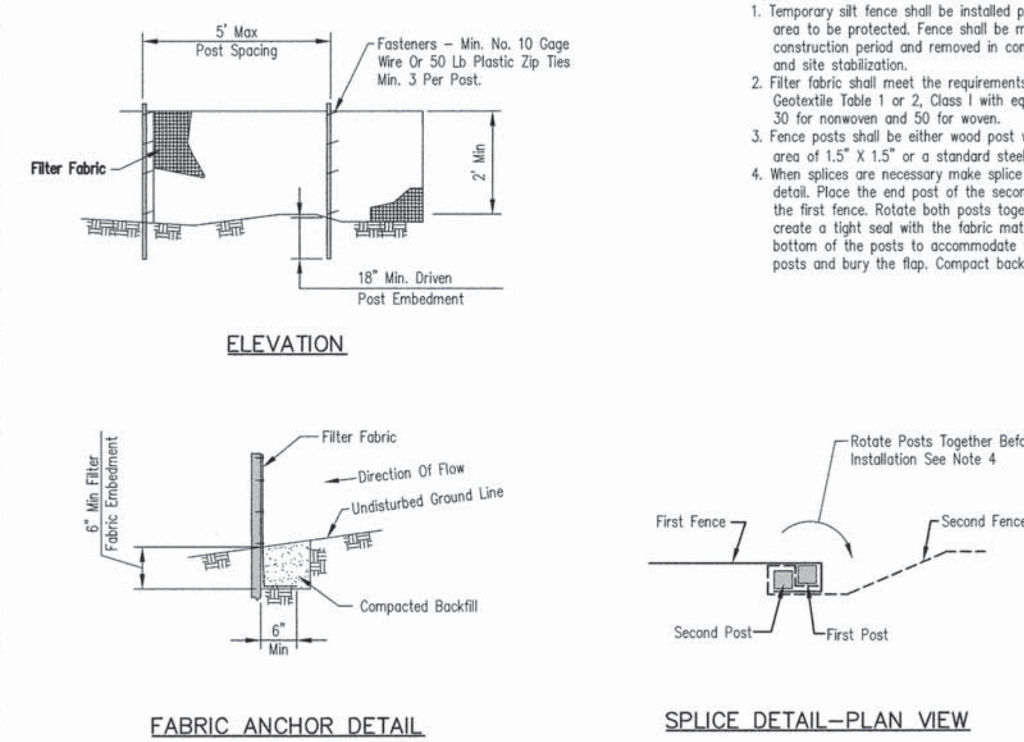
Not To Scale

EROSION BLANKET INSTALLATION DETAILS

NRCS

File No. IL ENG-61

Page 1 of 1



NOTES:

1. Temporary silt fence shall be installed prior to any grading work in the area to be protected. Fence shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either wood post with a minimum cross-sectional area of 1.5" X 1.5" or a standard steel post.
4. When splices are necessary make splice at post according to splice detail. Place the end post of the second fence inside the end post of the first fence. Rotate both posts together at least 180 degrees to create a tight seal with the fabric material. Cut the fabric near the bottom of the posts to accommodate the 6 inch flap. Then drive both posts and bury the flap. Compact backfill well.

SILT FENCE

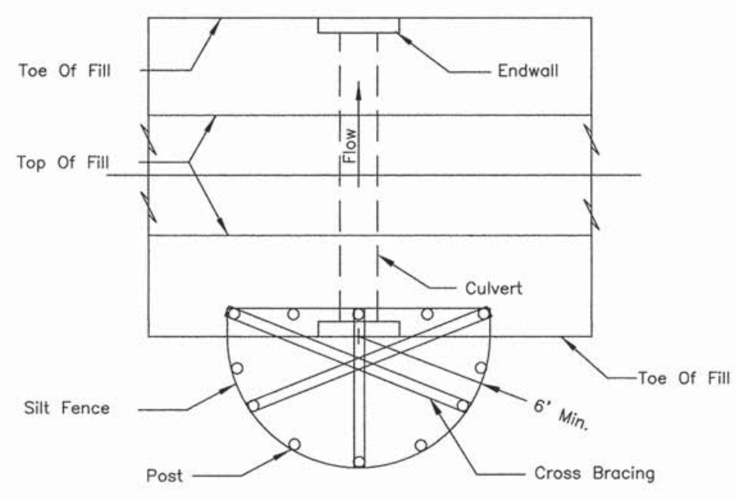
USDA United States Department of Agriculture Natural Resources Conservation Service

File No. IL-ENG-49

Page 1 of 1

CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION & SEDIMENT CONTROL PLAN – DETAILS LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188	F.A. RTE.: 4079	SECTION: 10-00376-00-BR	COUNTY: MCHENRY	TOTAL SHEETS: 73 / SHEET NO.: 25
		DRAWN - KWS	REVISED -					CONTRACT NO. 61B85	
	PLOT SCALE = 1.0000 '/ in.	CHECKED - CMC	REVISED -		SCALE: N.T.S. SHEET 7 OF 9 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -						

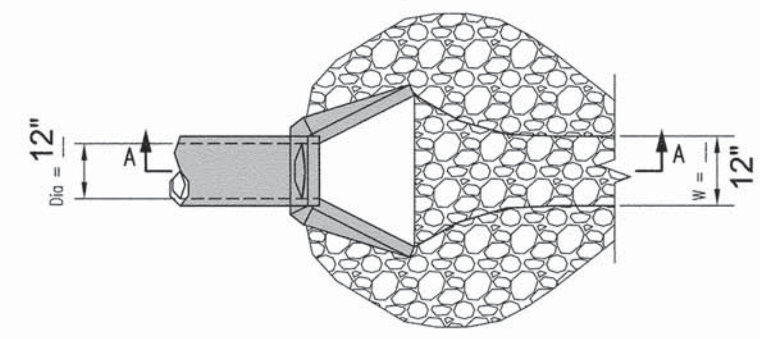
CULVERT INLET PROTECTION - SILT FENCE



PLAN VIEW

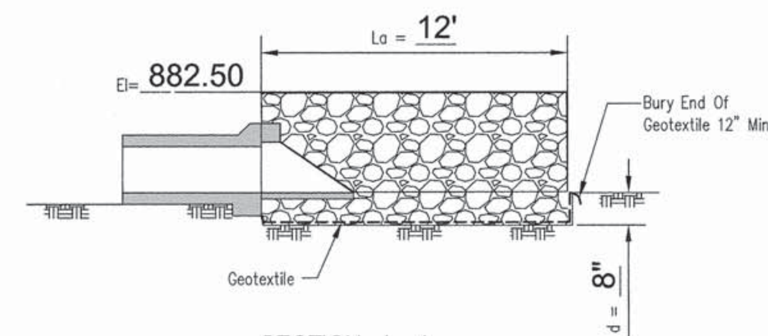
NOTES:
1. The silt fence shall meet the requirements as shown on standard drawing IL-620 SILT FENCE except the maximum post spacing shall be 3 feet and the tops of posts shall be cross braced.
2. Sediment shall be removed when the sediment has accumulated to one-half the height of the silt fence.
3. The maximum drainage area to the culvert being protected is 1 acre.

REFERENCE	NRCS Natural Resources Conservation Service	STANDARD DWG. NO. IL-508SF
Project ______		SHEET 1 OF 1
Designed ______ Date ______		DATE 1-29-99
Checked ______ Date ______		
Approved ______ Date ______		



PLAN

NOTES:
1. The rock riprap shall meet IDOT requirements for Gradation No. 3, Quality Designation "A" or as designated by engineer.
2. Geotextile (non-woven, needle punched) Minimum criteria:
   - Grab tensile strength (lb) ASTM D 4632 ______ 202
   - Elongation at failure (%) ASTM D 4632 ______ ≥ 50
   - Trapezoidal tear strength (lb) ASTM D 4533 ______ 79
   - Puncture strength (lb) ASTM D 6241 ______ 433
   - Ultraviolet light (% retained strength) ASTM D 4355 ______ min 50
   - Apparent opening size (AOS) ASTM D 4751 ______ max 0.22 mm (US sieve size 70)
   - Permittivity sec^{-1}/ ASTM D 4491 ______ min 0.70
3. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.
4. Apron shall extend across the channel bottom and up the channel banks to an elevation one foot above the maximum tailwater depth or to the top of bank.
5. Rock thickness d shall be at least 1.5 times the riprap D_{100} size.
6. Apron length L_a and rock riprap shall be sized according to Illinois Urban Manual Rock Outlet Protection standard 910 minimum L_a = 10 ft.



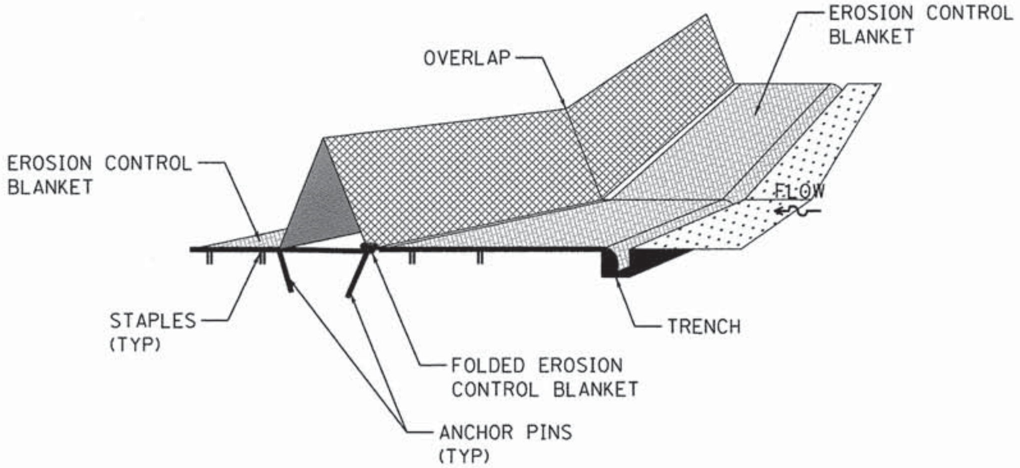
SECTION A-A

PIPE OUTLET TO CHANNEL

United States Department of Agriculture
USDA Natural Resources Conservation Service

File No. IL-ENG-45
Drawing No.
Page 1 of 1
Sheet of

CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION & SEDIMENT CONTROL PLAN - DETAILS LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - KWS	REVISED -			4079	10-00376-00-BR	MCHENRY	73	26
	PLOT SCALE = 1.0000 '/ in.	CHECKED - CMC	REVISED -					CONTRACT NO. 61B85		
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. SHEET 8 OF 9 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



INSTALLATION NOTES:

1. PREPARE THE CHANNEL BY FORMING THE SHAPE AND GRADE OF THE CHANNEL AND COMPACTING THE SUBGRADE.
2. APPLY FERTILIZER AND SEED AS REQUIRED.
3. INSTALL EROSION CONTROL BLANKETS
   A. FOR FULL CHANNEL LINING, FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. LEAVE A 4" FLAP OF EROSION CONTROL BLANKET TO FOLD OVER THE UPSTREAM LEG OF THE DITCH CHECK.
   B. ALLOW 4" SLACK ACROSS EROSION CONTROL BLANKET WIDTH FOR FOLDING OVER THE UPSTREAM EDGE OF THE DITCH CHECK BERM. PROVIDE A 6"x6" TRENCH AT THE UPSTREAM EDGE OF THE EROSION CONTROL BLANKET. STAPLE THE EROSION CONTROL BLANKET ONTO THE BOTTOM OF THE TRENCH WITH A MINIMUM 6" STAPLE AT 20" SPACING ON CENTER. RE-COMPACT THE SOIL INTO THE TRENCH.
4. PLACE TEMPORARY DITCH CHECK PERPENDICULAR TO THE DIRECTION OF FLOW. OVERLAP PANELS BY MINIMUM 2". CUT A SLOT IN THE CREST OF THE OVERLAPPING BERM TO ALLOW CONTACT BETWEEN THE FOOT OF THE BERM AND THE SOIL.
5. SECURE BERMS WITH 10" ANCHOR PINS AND 1.5" WASHERS THROUGH THE FOLDED EROSION CONTROL BLANKET AND THE FOOT OF THE UNIT. THE ANCHOR PIN SPACING ACROSS THE WIDTH OF THE PANEL SHOULD BE 20" ON CENTER FOR THE UPSTREAM LEG AND 40" ON CENTER FOR THE DOWNSTREAM LEG.

MAINTENANCE NOTES:

1. THE CONTRACTOR SHALL INSPECT ALL TEMPORARY DITCH CHECKS AFTER EACH RAIN EVENT OF 1/2 INCH OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR.
2. ACCUMULATED SEDIMENT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE TEMPORARY DITCH CHECK IS DAMAGED OR INADVERTENTLY MOVED DURING THE SEDIMENT REMOVAL PROCESS, THE CONTRACTOR SHALL RE-ESTABLISH CONTINUITY.

TEMPORARY DITCH CHECK
TRIANGULAR GRID TYPE

DRAINAGE

1. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE COST TO MAINTAIN POSITIVE DRAINAGE IS CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

2. ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED, STAKED AND REPORTED TO THE ENGINEER. DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATING OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED.

3. STORM SEWER STRUCTURE OFFSET LOCATIONS GIVEN ON THE PLANS ARE TO THE CENTER OF THE STRUCTURE, EXCEPT FOR STRUCTURES LOCATED IN THE CURB AND GUTTERS. THE RIM ELEVATIONS AND OFFSETS FOR THOSE DRAINAGE STRUCTURES ARE MEASURED TO THE EDGE OF PAVEMENT AND NOT TO THE CENTER OF THE STRUCTURE.

4. BEFORE FINAL ACCEPTANCE OF THE PROJECT, ALL EXISTING STORM SEWER LINES AND EXISTING STRUCTURES SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. CLEANING OF PROPOSED STORM SEWER LINES AND STRUCTURES IS CONSIDERED TO BE INCLUDED IN THE COST OF THE DRAINAGE ITEM.

5. DURING CONSTRUCTION OPERATIONS, WHEN ANY LOOSE MATERIAL IS PRESENT IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE END OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTORS FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS, OR REMOVAL OF UNSUITABLE MATERIAL CREATED AS A RESULT THEROF.

UTILITIES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES RELEVANT TO THEIR EXACT LOCATIONS, AND TO SCHEDULE ALL NECESSARY UTILITY RELOCATIONS.

2. ALL UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS ARE LOCATED AT THEIR APPROXIMATE LOCATIONS. IT IS BELIEVED THAT THIS DATA IS ESSENTIALLY CORRECT, THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. IN ACCORDANCE WITH ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY WHEN THE POTENTIAL EXISTS FOR INVOLVEMENT AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. FOR REGULATED UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT 1-800-892-0123 OR 811 (48 HOUR NOTIFICATION IS REQUIRED). THE CONTRACTOR SHOULD CONTACT LOCAL GOVERNMENT AGENCIES FOR THE LOCATION OF ALL NON-REGULATED UTILITY LOCATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE CONTRACTOR'S SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE SEQUENCE SCHEDULE OF WORK TO COORDINATE WITH THE RELOCATION SCHEDULE OF CONFLICTING UTILITY COMPANIES.

4. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN AND PROTECT EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE. THE CONTRACTOR SHALL PROTECT THE EXISTING OR NEW UTILITIES WHEN CONSIDERED NECESSARY BY METHODS APPROVED BY THE ENGINEER, AND HE SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY TO PREVENT SETTLEMENT, DISPLACEMENT OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

5. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY HIS/HER OWN EXPENSE.

DRAINAGE SCHEDULES

PROPOSED DRAINAGE STRUCTURE SCHEDULE

	STRUCTURE NO.	TYPE	STATION	OFFSET	INV.
•	S-01	CLASS SI CONC (MISC)	TBD	TBD	TBD
	S-02	PRC FLAR END SEC 12	53+79	31.50	881.89
	S-03	PRC FLAR END SEC 12	53+29	37.13	881.65
	S-04	PRC FLAR END SEC 12	53+79	29.19	881.89
	S-05	PRC FLAR END SEC 12	53+28	34.81	881.65
•	S-06	MISC CONCRETE	TBD	TBD	TBD
•	S-07	MISC CONCRETE	TBD	TBD	TBD

•NOTE: CONTRACTOR TO FIELD VERIFY LOCATION OF PIPE AND STRUCTURE

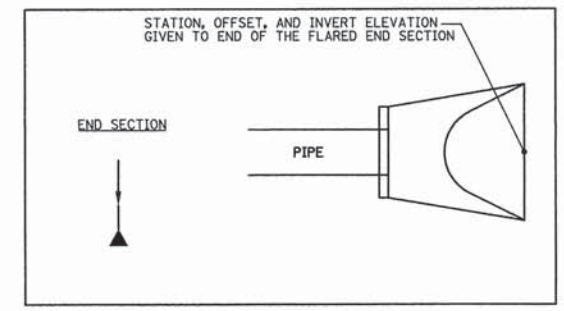
PROPOSED DRAINAGE PIPE SCHEDULE

	PIPE NO	FROM	TO	SIZE	LENGTH	SLOPE	TYPE
•	P-01	S-02	S-03	12"	50'	0.50%	PIPE CULVERTS, CLASS A, TYPE 4
	P-02	S-04	S-05	12"	50'	0.50%	PIPE CULVERTS, CLASS A, TYPE 4

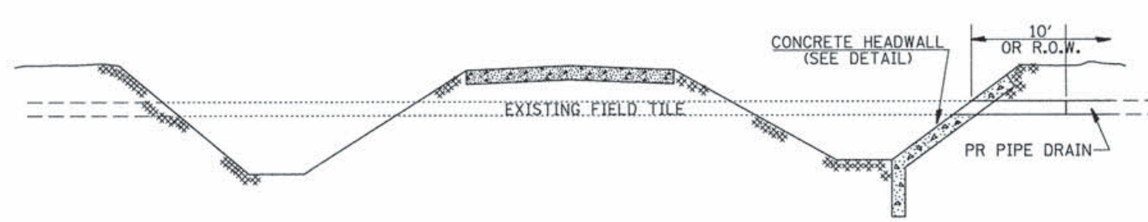
LEGEND

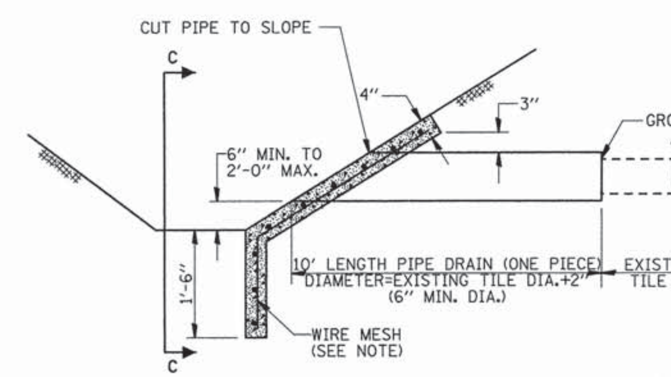
EXISTING FIELD DRAIN TILE	PROPOSED PIPE CULVERT
EXISTING ELECTRICAL	PROPOSED DITCHLINE
EXISTING CABLE TELEVISION	PROPOSED SWALE
EXISTING GAS LINE	PROPOSED PIPE DRAIN
EXISTING AERIAL ELECTRICAL	S-XX PROPOSED STORM SEWER STRUCTURE
EXISTING TELEPHONE	P-XX PROPOSED STORM SEWER PIPE
	T TIE-IN TO STRUCTURE/PIPE
	PROPOSED AGGREGATE DITCH CHECK

FLARED END SECTION DETAIL



DRAINAGE DETAILS



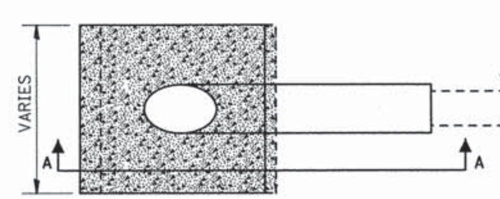


CLASS SI CONCRETE HEADWALL

N.T.S.

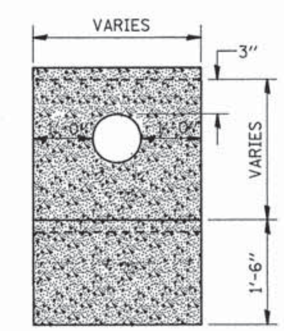
SECTION A–A

N.T.S.



PLAN

N.T.S.



SECTION C–C

N.T.S.

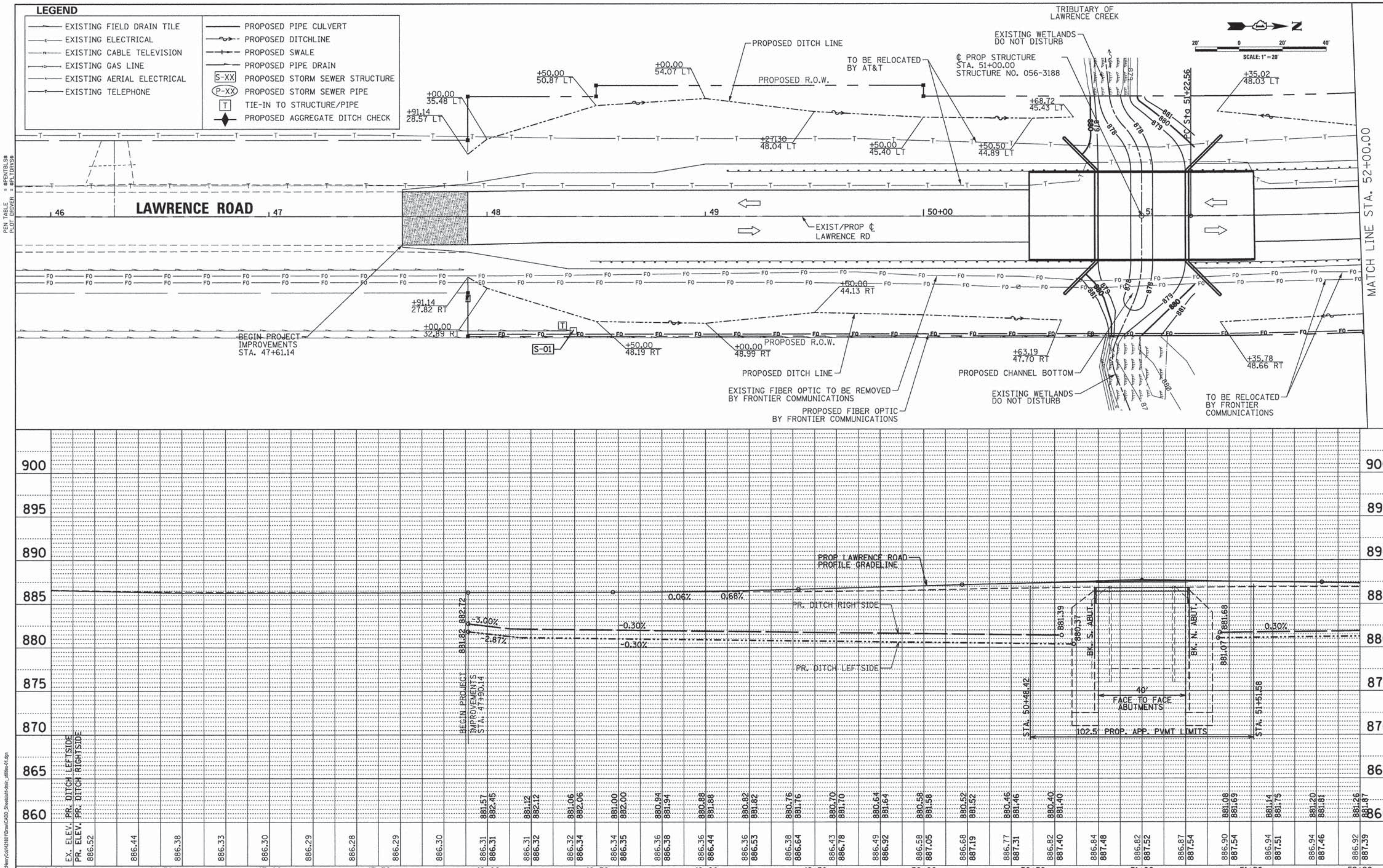
FIELD TILE REPLACEMENT

NOTES:

1. ANY STORM SEWER SPECIAL OR BACKSLOPE DRAIN OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.

2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PERCUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

3. THE COST OF PROPOSED PIPE DRAIN INSTALLED FROM THE EXISTING FIELD TILE TO THE PROPOSED HEADWALL SHALL BE INCLUDED IN THE COST OF MISCELLANEOUS CONCRETE (61100605)



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	DRAWN - KWS	REVISED -
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PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

CMT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES PLAN AND PROFILE
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 45+83.70 TO STA. 52+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	29
		CONTRACT NO. 61B85		

ILLINOIS FED. AID PROJECT

PEN TABLE = #PENTBL.tbl
PLOT DRIVER = #PLTDRVR#

MATCH LINE STA. 52+00.00

PROPOSED ℄ FIELD ENTRANCE

PR. TEMP EASEMENT

PROPOSED R.O.W.

PROPOSED EASEMENT

PROPOSED DITCH LINE

END ROADWAY IMPROVEMENTS STA. 55+30.00

END PROJECT IMPROVEMENTS STA. 57+00.00

EXIST R.O.W.

+00.00 40.13 LT

+50.00 38.83 LT

+00.00 38.68 LT

+90.36 31.04 RT

+50.00 29.54 RT

+00.00 25.50 RT

+00.00 25.00 RT

+50.00 31.64 RT

+50.00 45.72 RT

+00.00 59.60 RT

+62.30 68.78 RT

+00.00 59.30 RT

+50.00 63.56 RT

+50.00 61.06 RT

S-01 S-02 S-03 S-04 S-05 S-06 S-07

P-01 P-02

52 53 54 55+00 56 57

LAWRENCE ROAD

EXIST/PROP ℄ LAWRENCE RD

2%

PROPOSED FIBER OPTIC BY FRONTIER COMMUNICATIONS

EX QUARTER SECTION LINE

PROP R.O.W.

20' 0 20' 40'

SCALE: 1"=20'

LEGEND

- EXISTING FIELD DRAIN TILE
- EXISTING ELECTRICAL
- EXISTING CABLE TELEVISION
- EXISTING GAS LINE
- EXISTING AERIAL ELECTRICAL
- EXISTING TELEPHONE
- PROPOSED PIPE CULVERT
- PROPOSED DITCHLINE
- PROPOSED SWALE
- PROPOSED PIPE DRAIN
- S-XX PROPOSED STORM SEWER STRUCTURE
- P-XX PROPOSED STORM SEWER PIPE
- T TIE-IN TO STRUCTURE/PIPE
- PROPOSED AGGREGATE DITCH CHECK

PROP. LAWRENCE ROAD PROFILE GRADELINE

PR. DITCH RIGHTSIDE

PR. DITCH LEFTSIDE

0.30% .50% 1.78% 0.30% 2.17%

END FULL DEPTH PAVEMENT PROJECT IMPROVEMENTS STA. 53+90.36

END MILL & RESURFACE PROJECT IMPROVEMENTS STA. 55+00.00

	52+00	52+50	53+00	53+50	54+00	54+50	55+00	55+50	56+00	56+50	57+00	57+50
EX. ELEV.	887.46	886.91	886.94	886.97	886.97	886.98	886.96	886.95	886.94	886.92	886.91	886.96
PR. DITCH LEFTSIDE	881.20	881.32	881.38	881.44	881.50	881.56	881.62	881.65	881.89	882.23	882.59	882.94
PR. ELEV.	886.92	886.91	886.94	886.97	886.97	886.98	886.98	886.96	886.95	886.92	886.91	886.97
PR. DITCH RIGHTSIDE	881.26	881.32	881.38	881.44	881.50	881.56	881.62	881.65	881.89	882.23	882.59	882.94
	887.39	886.91	887.25	887.18	887.11	887.04	886.98	886.96	886.94	886.92	886.91	886.97
	881.87	881.93	881.99	882.05	882.11	882.17	882.23	882.29	882.35	882.41	882.47	882.53

	53+50	54+00	54+50	55+00	55+50	56+00	56+50	57+00	57+50
EX. ELEV.	887.02	887.07	887.12	887.18	887.37	887.56	887.82	888.14	888.46
PR. DITCH LEFTSIDE	883.30	883.65	884.01	882.83	883.23	883.66	884.09	884.53	884.96
PR. ELEV.	887.02	887.07	887.13						
PR. DITCH RIGHTSIDE	882.65	882.71	882.77						

	57+50	58+00	58+50	59+00	59+50	60+00
EX. ELEV.	888.85	889.25	889.68	890.12	890.56	890.98
PR. DITCH LEFTSIDE	885.40	885.83	886.27	886.70		
PR. ELEV.						
PR. DITCH RIGHTSIDE						

	60+50	61+00
EX. ELEV.	891.40	891.90
PR. DITCH LEFTSIDE		
PR. ELEV.		
PR. DITCH RIGHTSIDE		

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CMT License No. 184.000613

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	DRAWN - KWS	REVISED -
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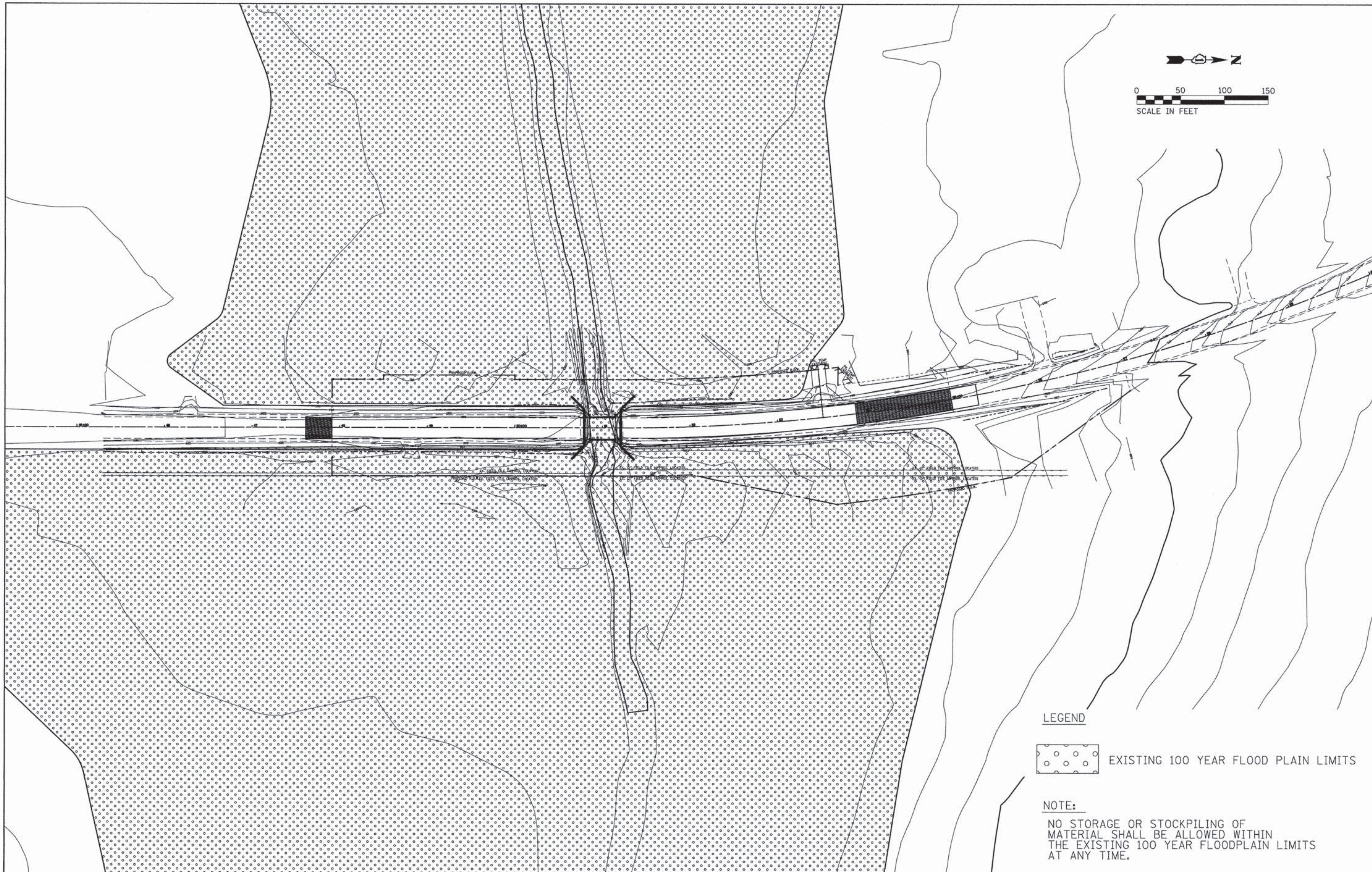
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES PLAN AND PROFILE
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 52+00.00 TO STA. 57+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	30
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



LEGEND

EXISTING 100 YEAR FLOOD PLAIN LIMITS

NOTE:

NO STORAGE OR STOCKPILING OF MATERIAL SHALL BE ALLOWED WITHIN THE EXISTING 100 YEAR FLOODPLAIN LIMITS AT ANY TIME.

CMT	USER NAME = Mike Moss	DESIGNED - KWS	REVISED -
		DRAWN - KWS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOODPLAIN EXHIBIT
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	31
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

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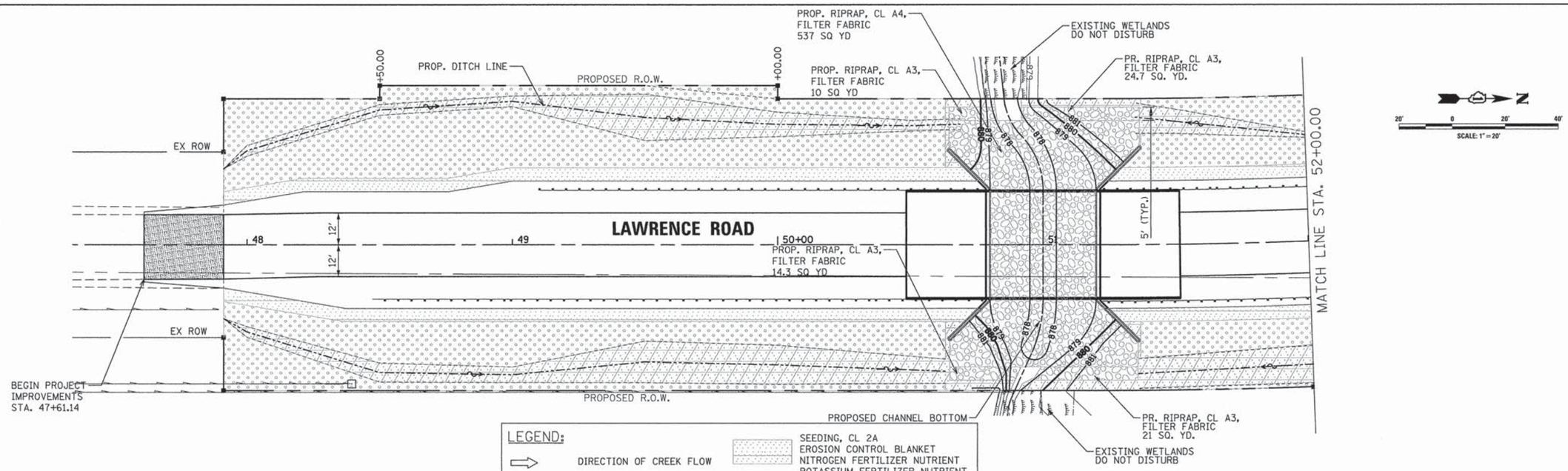
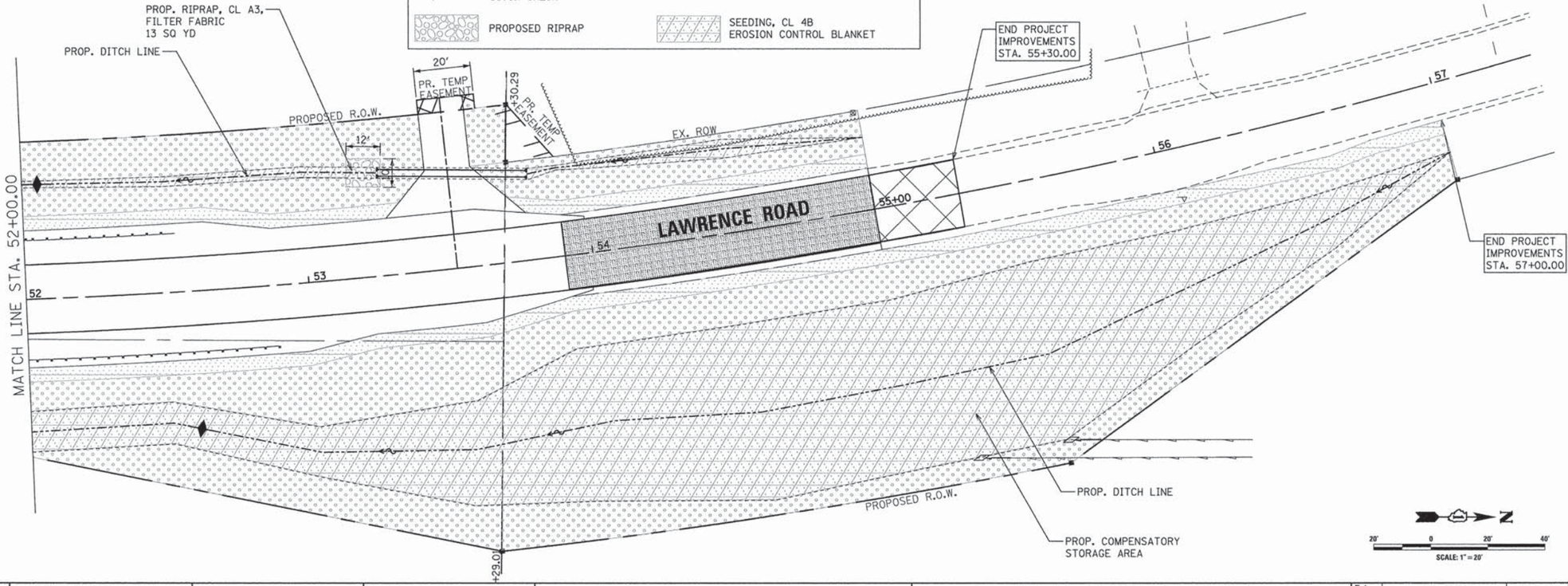


LEGEND:

- DIRECTION OF CREEK FLOW
- PROPOSED DRAINAGE FLOW
- PROPOSED AGGREGATE DITCH CHECK
- PROPOSED RIPRAP
- SEEDING, CL 2A EROSION CONTROL BLANKET NITROGEN FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT
- SEEDING, CL 4A EROSION CONTROL BLANKET
- SEEDING, CL 4B EROSION CONTROL BLANKET



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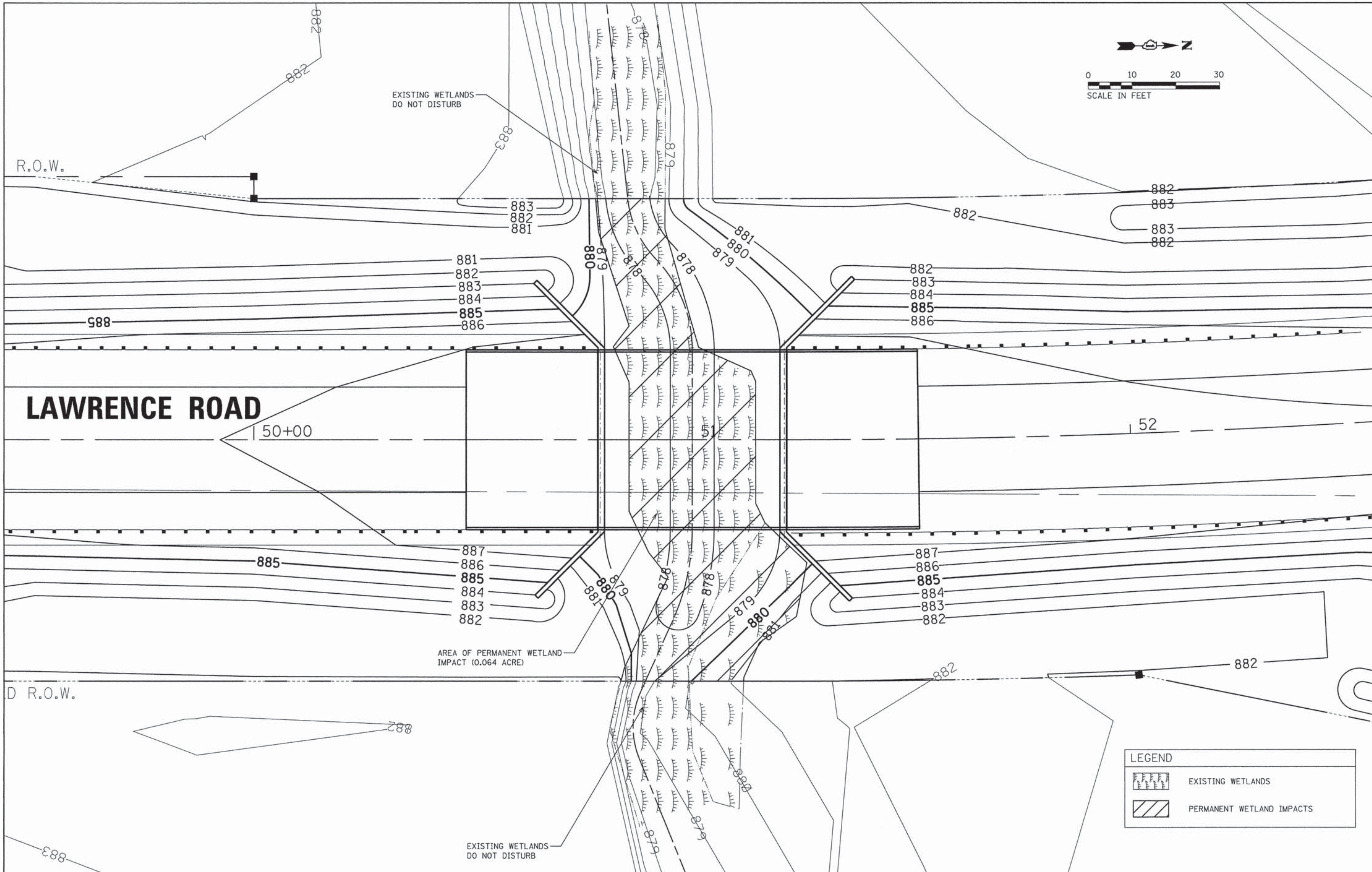
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING AND RESTORATION PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 47+61.14 | TO STA. 57+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	32
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



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USER NAME = Mike Moes

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PLOT DRIVER = @PLTDRVS@

CMT

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	DRAWN - KWS	REVISED -
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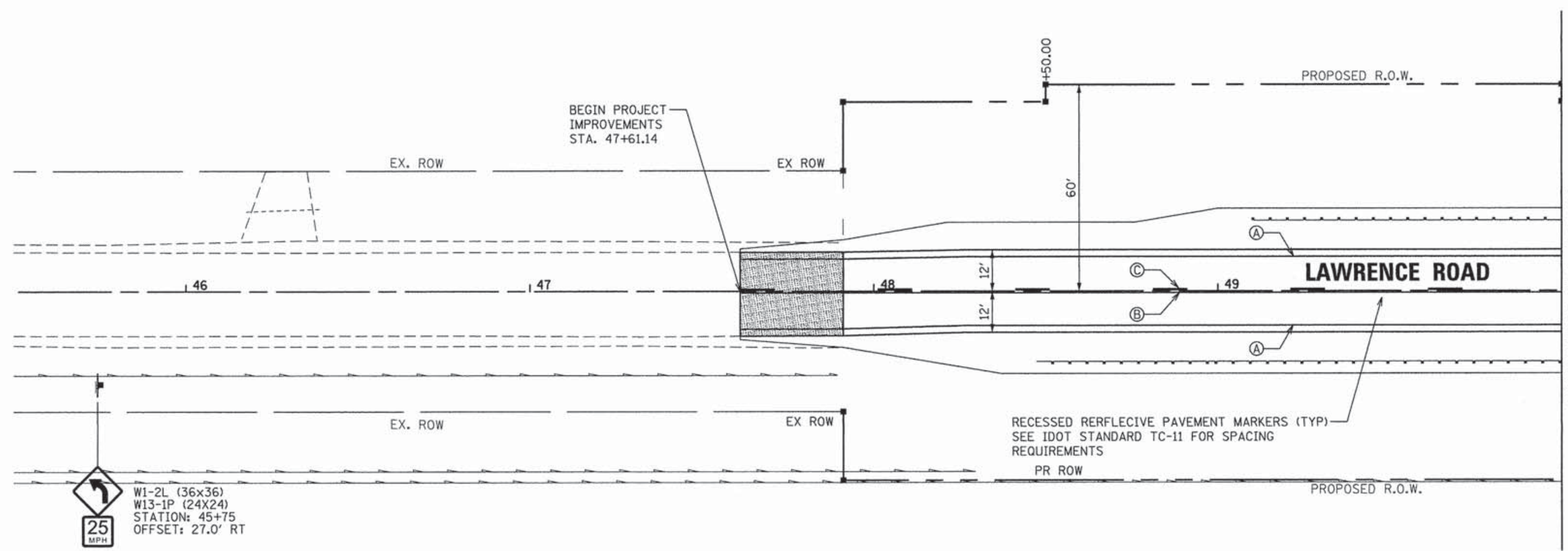
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

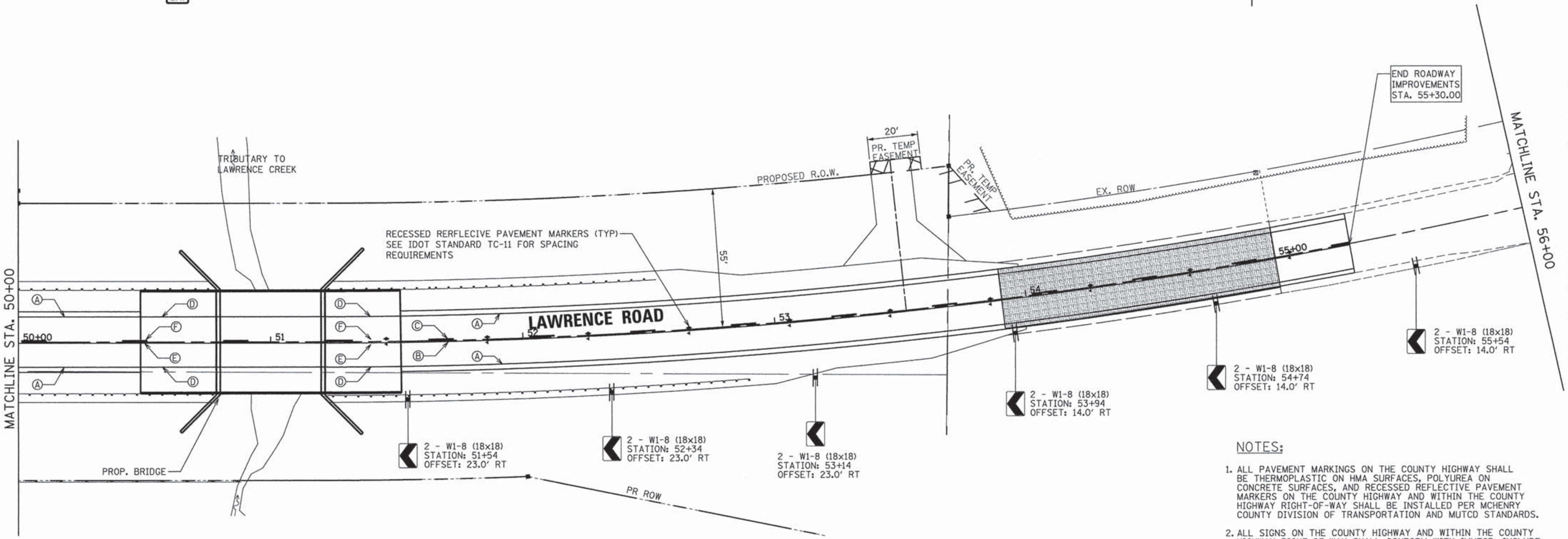
SCALE: 1"=10' | SHEET 1 OF 1 SHEETS | STA.- TO STA.-

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	33
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



LEGEND:

- (A) 4" WHITE THERMOPLASTIC
- (B) 4" YELLOW THERMOPLASTIC
- (C) 4" YELLOW SKIP DASH THERMOPLASTIC
- (D) 4" WHITE POLYUREA
- (E) 4" YELLOW POLYUREA
- (F) 4" YELLOW SKIP DASH POLYUREA
- ◆ TWO WAY RECESSED PAVEMENT REFLECTIVE MARKER
- ◄ ONE WAY RECESSED PAVEMENT REFLECTIVE MARKER



NOTES:

1. ALL PAVEMENT MARKINGS ON THE COUNTY HIGHWAY SHALL BE THERMOPLASTIC ON HMA SURFACES, POLYUREA ON CONCRETE SURFACES, AND RECESSED REFLECTIVE PAVEMENT MARKERS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE INSTALLED PER MCHENRY COUNTY DIVISION OF TRANSPORTATION AND MUTCD STANDARDS.
2. ALL SIGNS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL CONFORM WITH IMUTCD, INCLUDE DIAMOND GRADE DG REFLECTIVE SHEETING AND BE INSTALLED ON 2" GS TELESCOPING POSTS WITH GS WINGED SOIL ANCHORS. SOIL ANCHORS INCLUDED IN COST OF TELESCOPING STEEL SIGN SUPPORT.

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PLOT DRIVER = $PLTDRV$

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CMT

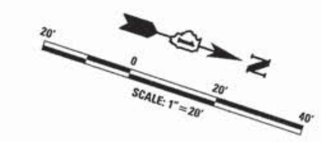
USER NAME = Mike Moss	DESIGNED - KWS	REVISED -
	DRAWN - KWS	REVISED -
PLOT SCALE = 20.0000 '/ in.	CHECKED - CMC	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

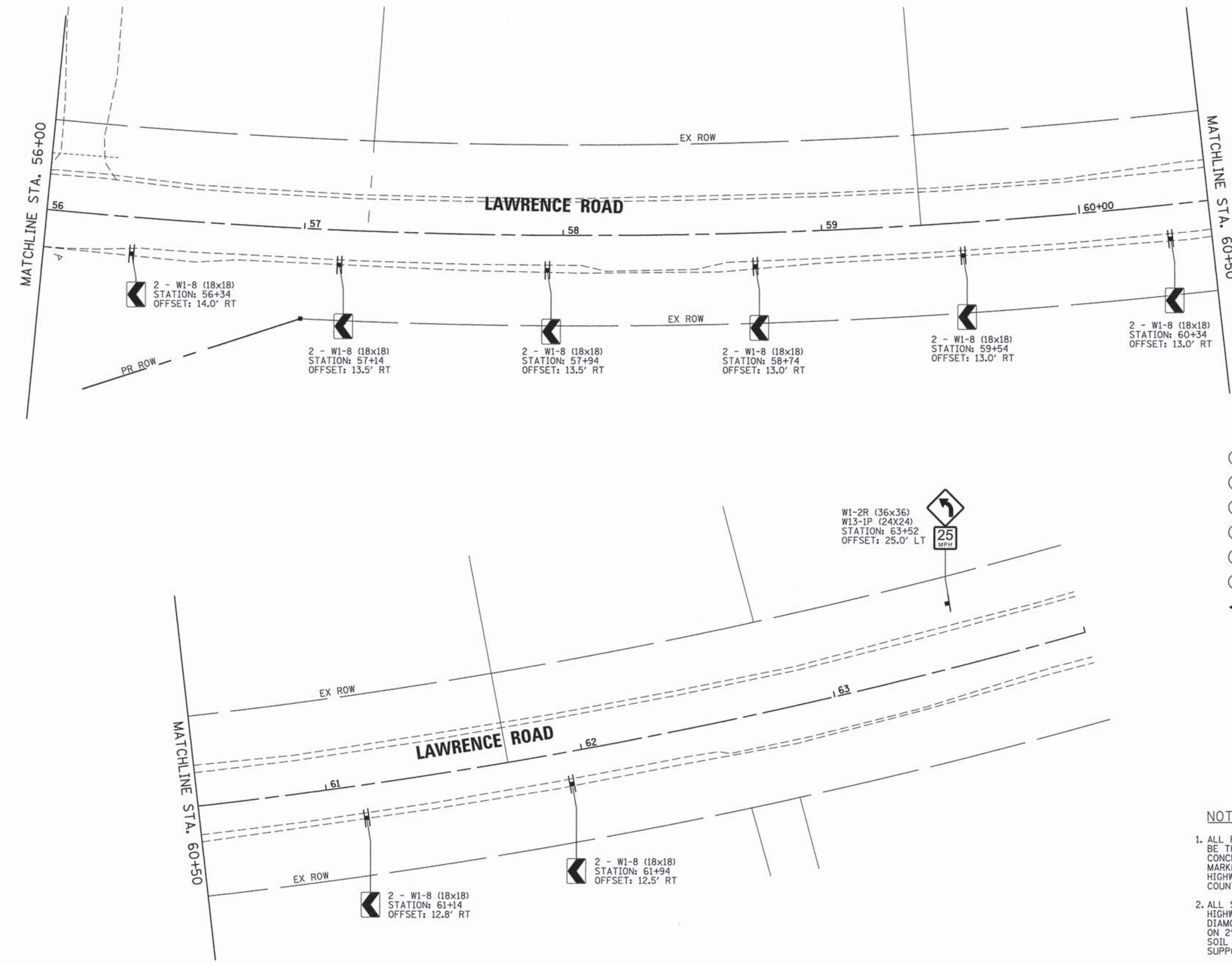
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 47+61.14 TO STA. 56+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	34
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		





LEGEND:

- (A) 4" WHITE THERMOPLASTIC
- (B) 4" YELLOW THERMOPLASTIC
- (C) 4" YELLOW SKIP DASH THERMOPLASTIC
- (D) 4" WHITE POLYUREA
- (E) 4" YELLOW POLYUREA
- (F) 4" YELLOW SKIP DASH POLYUREA
- ◆ TWO WAY RECESSED PAVEMENT REFLECTIVE MARKER
- ◄ ONE WAY RECESSED PAVEMENT REFLECTIVE MARKER

NOTES:

1. ALL PAVEMENT MARKINGS ON THE COUNTY HIGHWAY SHALL BE THERMOPLASTIC ON HMA SURFACES, POLYUREA ON CONCRETE SURFACES, AND RECESSED REFLECTIVE PAVEMENT MARKERS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE INSTALLED PER MCHENRY COUNTY DIVISION OF TRANSPORTATION AND MUTCD STANDARDS.
2. ALL SIGNS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL CONFORM WITH IMUTCD, INCLUDE DIAMOND GRADE DG REFLECTIVE SHEETING AND BE INSTALLED ON 2" GS TELESCOPING POSTS WITH GS WINGED SOIL ANCHORS. SOIL ANCHORS INCLUDED IN COST OF TELESCOPING STEEL SIGN SUPPORT.

CMT	USER NAME = Mike Moes	DESIGNED - KWS	REVISED -
		DRAWN - KWS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - CMC	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 56+00.00 TO STA. 64+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	35
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVS$

BENCH MARK:

Cut square "□" in top of SW Wingwall, Approximate Sta. 50+79.52, Elev = 887.14.
Top of pipe north end of culvert ◎ 7615, Approximate Sta. 56+25.61, Elev = 886.35.
Top of pipe south end of culvert ◎ 7617, Approximate Sta. 58+39.88, Elev = 891.39.

EXISTING STRUCTURE:

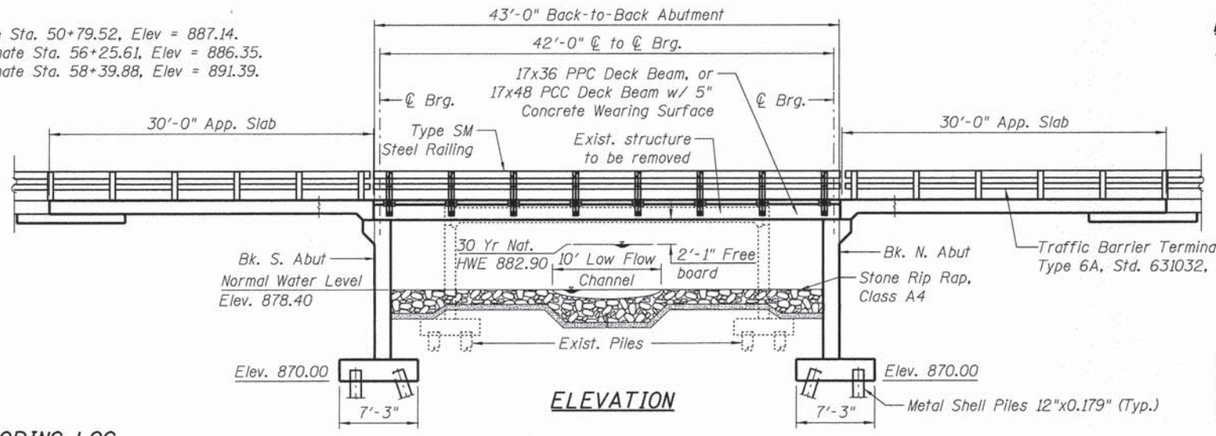
SN 056-3012 is 30 feet long, back-to-back abutment, and 28 feet wide out-to-out of the deck. The single span cast-in-place concrete slab deck is 16" thick with 5" bituminous overlay.

PROPOSED IMPROVEMENTS:

Existing structure to be removed and replaced. The proposed structure is 43'-0" back to back of abutments and 41'-0" out to out deck. No stage construction required.

SALVAGE

Structure will be removed entirely with no salvage.



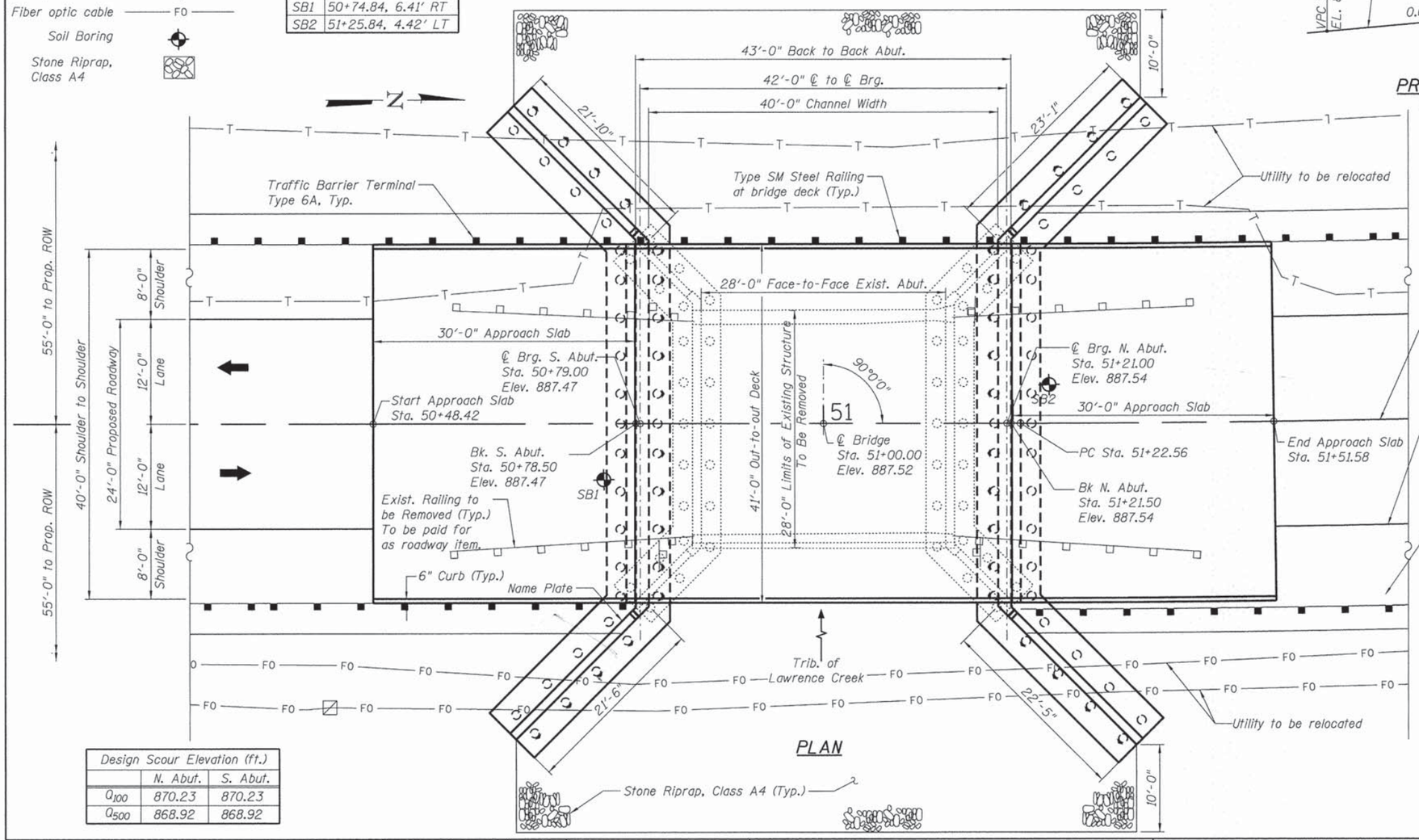
ELEVATION

LEGEND

Telephone cable ——T——
Fiber optic cable ——FO——
Soil Boring
Stone Riprap, Class A4

BORING LOG

SB1	50+74.84, 6.41' RT
SB2	51+25.84, 4.42' LT



PLAN

Design Scour Elevation (ft.)		
	N. Abut.	S. Abut.
Q_{100}	870.23	870.23
Q_{500}	868.92	868.92

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications with 2015 Interim Revisions

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
f'c = 5,000 psi (Concrete Wearing Surface)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (½" ϕ low lax strands)

SEISMIC DATA

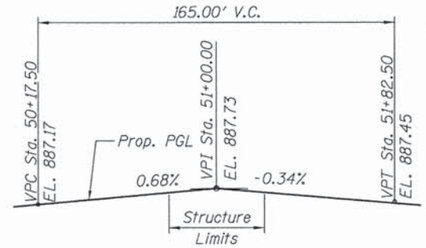
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.076g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.126g
Soil Site Class = D

LOADING HL-93

Allow 50#/sq. ft. for Future Wearing Surface.

HIGHWAY CLASSIFICATION

Lawrence Road
Functional Class: Minor Arterial
ADTT: 90 (2009); 201 (2040)
ADT: 1,280 (2009); 2,000 (2040)
Design Speed: 55 mph
Posted Speed: 55 mph
Directional Distribution: 50/50



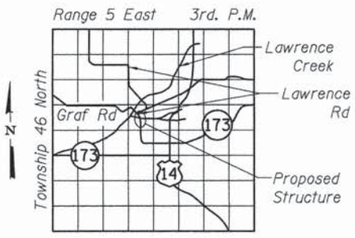
PROFILE GRADE

(along ℄ Roadway)

TRIB. OF LAWRENCE CREEK
BUILT 201_ BY
MCHENRY DIVISION OF TRANSPORTATION
SECTION 10-00376-00-BR
F.A. RT. 4079 STA. 51+00
STR. NO. 056-3188 LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

HORIZONTAL CURVE DATA

PI STA. = 57+81.18
Δ = 34° 01' 30" (LT)
D = 2° 39' 42"
R = 2,152.55'
T = 658.62'
L = 1,278.29'
E = 98.50'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA = 51+22.56
P.T. STA = 64+00.85

LICENSED STRUCTURAL ENGINEER
PRABHU ANANTHAN
081-006743
STATE OF ILLINOIS

Exp. Date: 11/30/2016

"I certify that to the best of my knowledge, information and belief, this design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with the requirements of the current "2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 Interim Revisions."

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USER NAME = Mike Moes

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PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 1 OF 21 SHEETS | STA. 50+48.42 | TO STA. 51+51.58

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	36
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

PEN TABLE = #PENTBL1$#
PLOT DRIVER = #PLTDRV1$#

GENERAL NOTES

1. The placement of riprap across the stream shall be performed in the dry. The method for diverting the stream during the placement of riprap shall be submitted to the Engineer for review and approaval prior to the start of work. This work shall aslo conform to the requierements of the permits.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The Illinois Department of Transportation is not the owner of record for this bridge. For information regarding the existing structure, see record plans on sheets S-20 and S-21.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

	ITEM	DESCRIPTION	UNIT	SUPER	SUB	TOTAL
	28100107	Stone Riprap, Class A4	Sq. Yd.		537	537
	28200200	Filter Fabric	Sq. Yd.		537	537
	50100100	Removal of Existing Structures	Each	1		1
	50200100	Structure Excavation	Cu. Yd.		510	510
	50200300	Cofferdam Excavation	Cu. Yd.		66	66
*	50201121	Cofferdam (Type 2) (Location - 1)	Each		1	1
*	50201122	Cofferdam (Type 2) (Location - 2)	Each		1	1
	50300225	Concrete Structures	Cu. Yd.	25.3	198.4	223.7
	50300255	Concrete Superstructure	Cu. Yd.	125.5		125.5
	50300260	Bridge Deck Grooving	Sq. Yd.	436		436
	50300300	Protective Coat	Sq. Yd.	478		478
	50400305	Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,770		1,770
	50800205	Reinforcement Bars, Epoxy Coated	Pound	33,990	23,340	57,330
	50901050	Steel Railing, Type SM	Foot	87		87
	51200956	Furnishing Metal Shell Piles 12" x 0.179"	Foot		2,431	2,431
	51202305	Driving Piles	Foot		2,431	2,431
	51203200	Test Pile Metal Shells	Each		2	2
	51500100	Name Plates	Each	1		1
	59100100	Geocomposite Wall Drain	Sq. Yd.		189	189
**	X0322400	Pile Extraction	Each		12	12
*	X5030305	Concrete Wearing Surface, 5"	Sq. Yd.	197		197
*	X5860110	Granular Backfill for Structures	Cu. Yd.		93	93
*	Z0046304	Pipe Underdrains for Structures 4"	Foot		172	172

* Guide Bridge Special Provision Item
** Special Provision Item

WATERWAY INFORMATION

Drainage Area = 3.57 Sq. Mi.
Existing Low Grade Elev. 886.28' @ Sta. 47+40
Proposed Low Grade Elev. 886.28' @ Sta. 47+40

Flood	Freq. Yr.	Q C.F.S.	Opening-Sq. Ft. Exist.	Opening-Sq. Ft. Prop.	Natural H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	2	316	127.12	181.6	882.11	0.40	0.38	882.51	882.49
	10	534	142.5	203.6	882.67	1.15'	1.03'	883.82	883.70
Design	30	831	149.0	212.8	882.90	1.64'	1.44'	884.54	884.34
Base	100	1031	154.8	221.2	883.11	2.63'	1.83'	885.74	884.94
Overtop Existing	>500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Overtop Proposed	>500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	1326	161.6	230.8	883.35	2.69'	2.30'	886.04	885.65

10 Year Velocity Through Existing Bridge = 9 ft/s
10 Year Velocity Through Proposed Bridge = 8 ft/s

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USER NAME = Mike Moes

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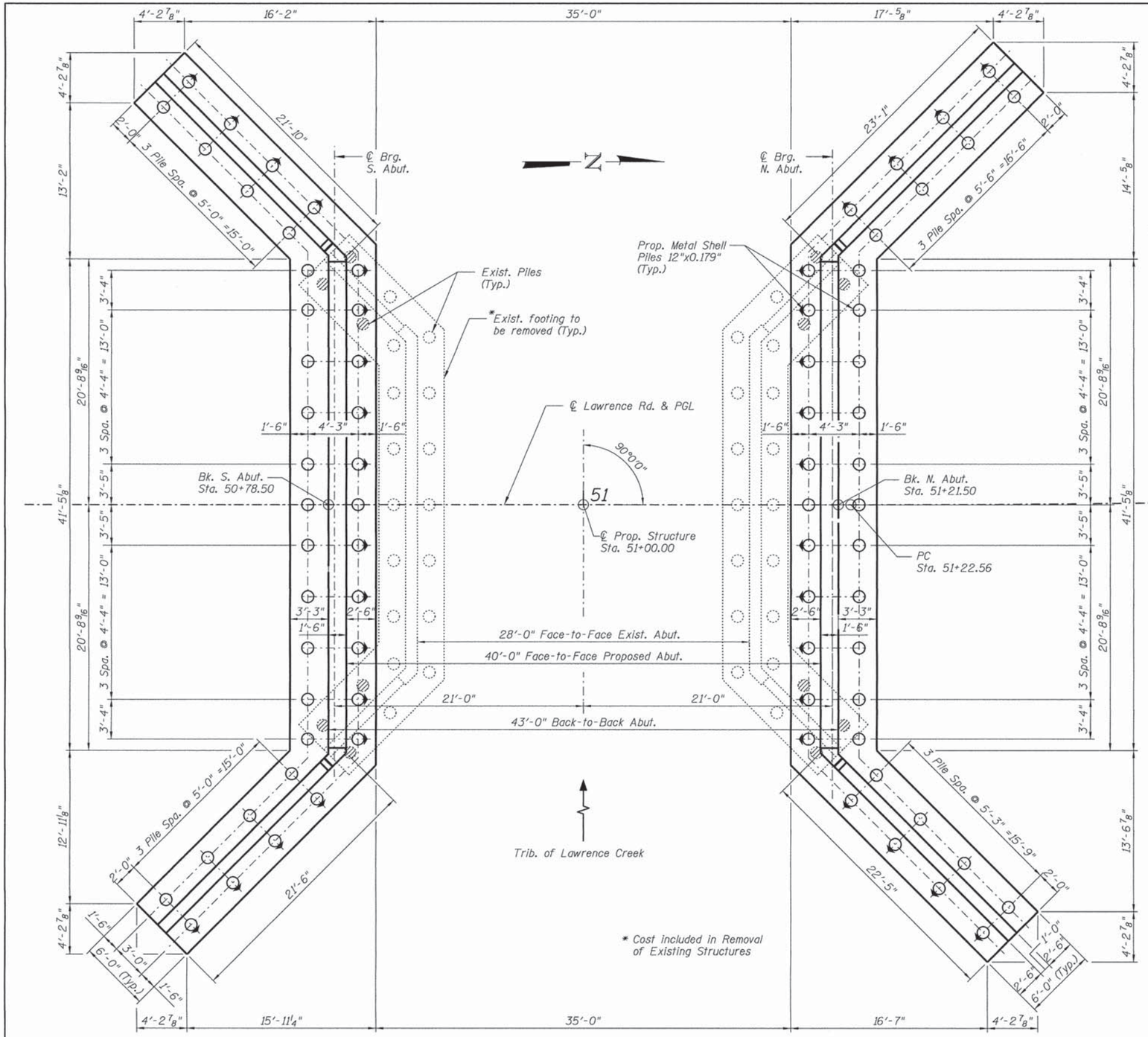
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

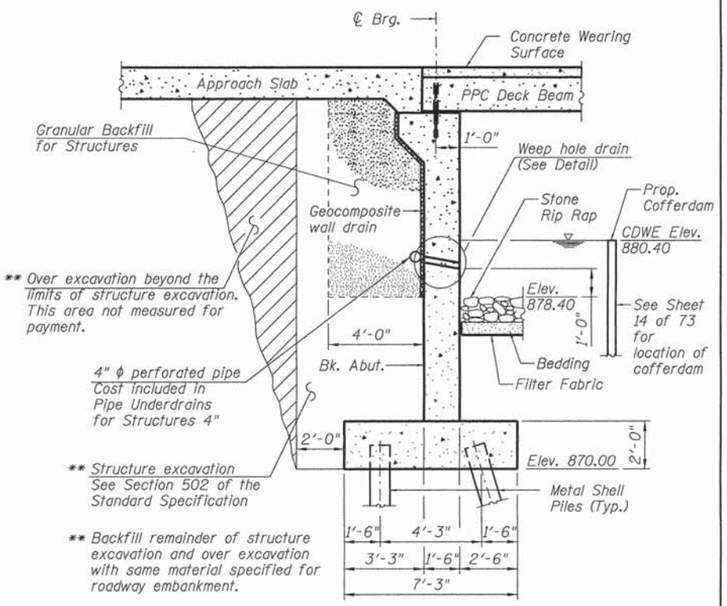
GENERAL NOTES AND BILL OF MATERIAL
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 2 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	37
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



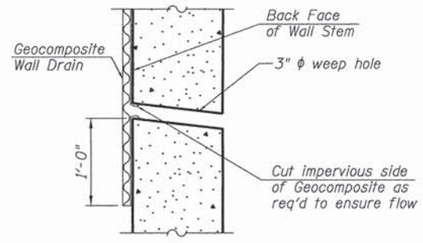
FOUNDATION LAYOUT PLAN



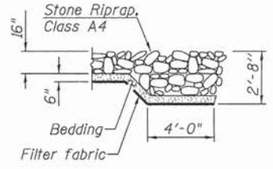
SECTION THRU ABUTMENT

LEGEND

- Proposed Pile
- Proposed Battered Pile
- Existing Pile to Remain
- Existing Pile to be Removed



WEEP HOLE DRAIN DETAIL



RIPRAP TREATMENT

NOTES

1. All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).
2. Riprap is not shown in plan for clarity. See Sheet S-01 of S-21 for extents of riprap.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOOTING LAYOUT PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 3 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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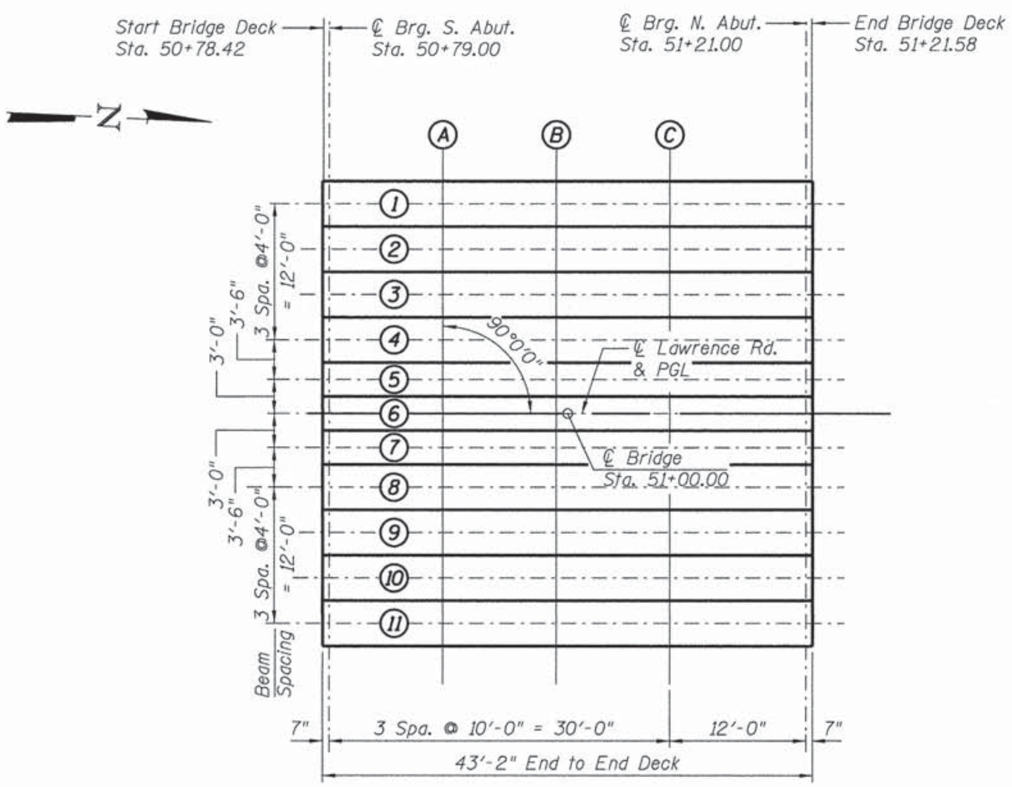
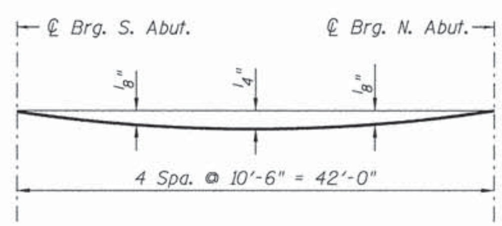
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



PLAN



DEAD LOAD DEFLECTION DIAGRAM

(INCLUDES WEIGHT OF CONCRETE ONLY)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in this sheet.

BEAM 1

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	-18.50	887.27	887.19
℄ Brg. S. Abut.	50+79.00	-18.50	887.27	887.19
A	50+89.00	-18.50	887.33	887.23
B	50+99.00	-18.50	887.38	887.26
C	51+09.00	-18.50	887.43	887.27
℄ Brg. N. Abut.	51+21.00	-18.50	887.49	887.27
Bk. N. Abut.	51+21.50	-18.50	887.49	887.27

BEAM 2

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	-14.50	887.25	887.25
℄ Brg. S. Abut.	50+79.00	-14.50	887.25	887.25
A	50+89.00	-14.50	887.28	887.29
B	50+99.00	-14.50	887.30	887.32
C	51+09.00	-14.50	887.32	887.33
℄ Brg. N. Abut.	51+21.00	-14.50	887.33	887.33
Bk. N. Abut.	51+21.50	-14.50	887.33	887.33

BEAM 3

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	-10.50	887.31	887.31
℄ Brg. S. Abut.	50+79.00	-10.50	887.31	887.31
A	50+89.00	-10.50	887.34	887.35
B	50+99.00	-10.50	887.36	887.38
C	51+09.00	-10.50	887.38	887.39
℄ Brg. N. Abut.	51+21.00	-10.50	887.39	887.39
Bk. N. Abut.	51+21.50	-10.50	887.39	887.39

BEAM 4

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	-6.50	887.37	887.37
℄ Brg. S. Abut.	50+79.00	-6.50	887.37	887.37
A	50+89.00	-6.50	887.40	887.41
B	50+99.00	-6.50	887.42	887.44
C	51+09.00	-6.50	887.44	887.45
℄ Brg. N. Abut.	51+21.00	-6.50	887.45	887.45
Bk. N. Abut.	51+21.50	-6.50	887.45	887.45

BEAM 5

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	-3.00	887.42	887.42
℄ Brg. S. Abut.	50+79.00	-3.00	887.43	887.43
A	50+89.00	-3.00	887.45	887.46
B	50+99.00	-3.00	887.47	887.49
C	51+09.00	-3.00	887.49	887.50
℄ Brg. N. Abut.	51+21.00	-3.00	887.50	887.50
Bk. N. Abut.	51+21.50	-3.00	887.50	887.50

BEAM 6/PGL

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	0.00	887.47	887.47
℄ Brg. S. Abut.	50+79.00	0.00	887.47	887.47
A	50+89.00	0.00	887.50	887.51
B	50+99.00	0.00	887.52	887.54
C	51+09.00	0.00	887.53	887.55
℄ Brg. N. Abut.	51+21.00	0.00	887.54	887.54
Bk. N. Abut.	51+21.50	0.00	887.54	887.54

BEAM 7

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	3.00	887.51	887.51
℄ Brg. S. Abut.	50+79.00	3.00	887.52	887.52
A	50+89.00	3.00	887.54	887.55
B	50+99.00	3.00	887.56	887.58
C	51+09.00	3.00	887.58	887.59
℄ Brg. N. Abut.	51+21.00	3.00	887.59	887.59
Bk. N. Abut.	51+21.50	3.00	887.59	887.59

BEAM 8

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	6.50	887.57	887.57
℄ Brg. S. Abut.	50+79.00	6.50	887.57	887.57
A	50+89.00	6.50	887.60	887.61
B	50+99.00	6.50	887.62	887.63
C	51+09.00	6.50	887.63	887.64
℄ Brg. N. Abut.	51+21.00	6.50	887.64	887.64
Bk. N. Abut.	51+21.50	6.50	887.64	887.64

BEAM 9

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	10.50	887.63	887.63
℄ Brg. S. Abut.	50+79.00	10.50	887.63	887.63
A	50+89.00	10.50	887.66	887.67
B	50+99.00	10.50	887.68	887.69
C	51+09.00	10.50	887.69	887.70
℄ Brg. N. Abut.	51+21.00	10.50	887.70	887.70
Bk. N. Abut.	51+21.50	10.50	887.70	887.70

BEAM 10

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	14.50	887.69	887.69
℄ Brg. S. Abut.	50+79.00	14.50	887.69	887.69
A	50+89.00	14.50	887.72	887.73
B	50+99.00	14.50	887.74	887.75
C	51+09.00	14.50	887.75	887.76
℄ Brg. N. Abut.	51+21.00	14.50	887.76	887.76
Bk. N. Abut.	51+21.50	14.50	887.76	887.76

BEAM 11

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
Bk. S. Abut.	50+78.50	18.50	887.75	887.75
℄ Brg. S. Abut.	50+79.00	18.50	887.75	887.75
A	50+89.00	18.50	887.78	887.79
B	50+99.00	18.50	887.80	887.81
C	51+09.00	18.50	887.81	887.82
℄ Brg. N. Abut.	51+21.00	18.50	887.82	887.82
Bk. N. Abut.	51+21.50	18.50	887.82	887.82

SOUTH APPROACH

WEST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start S. Appr. Slab	50+48.42	-20.00	887.05
A	50+58.42	-20.00	887.10
B	50+68.42	-20.00	887.14
End S. Appr. Slab	50+78.42	-20.00	887.17

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start S. Appr. Slab	50+48.42	-12.00	887.17
A	50+58.42	-12.00	887.22
B	50+68.42	-12.00	887.26
End S. Appr. Slab	50+78.42	-12.00	887.29

℄ ROADWAY & PGL

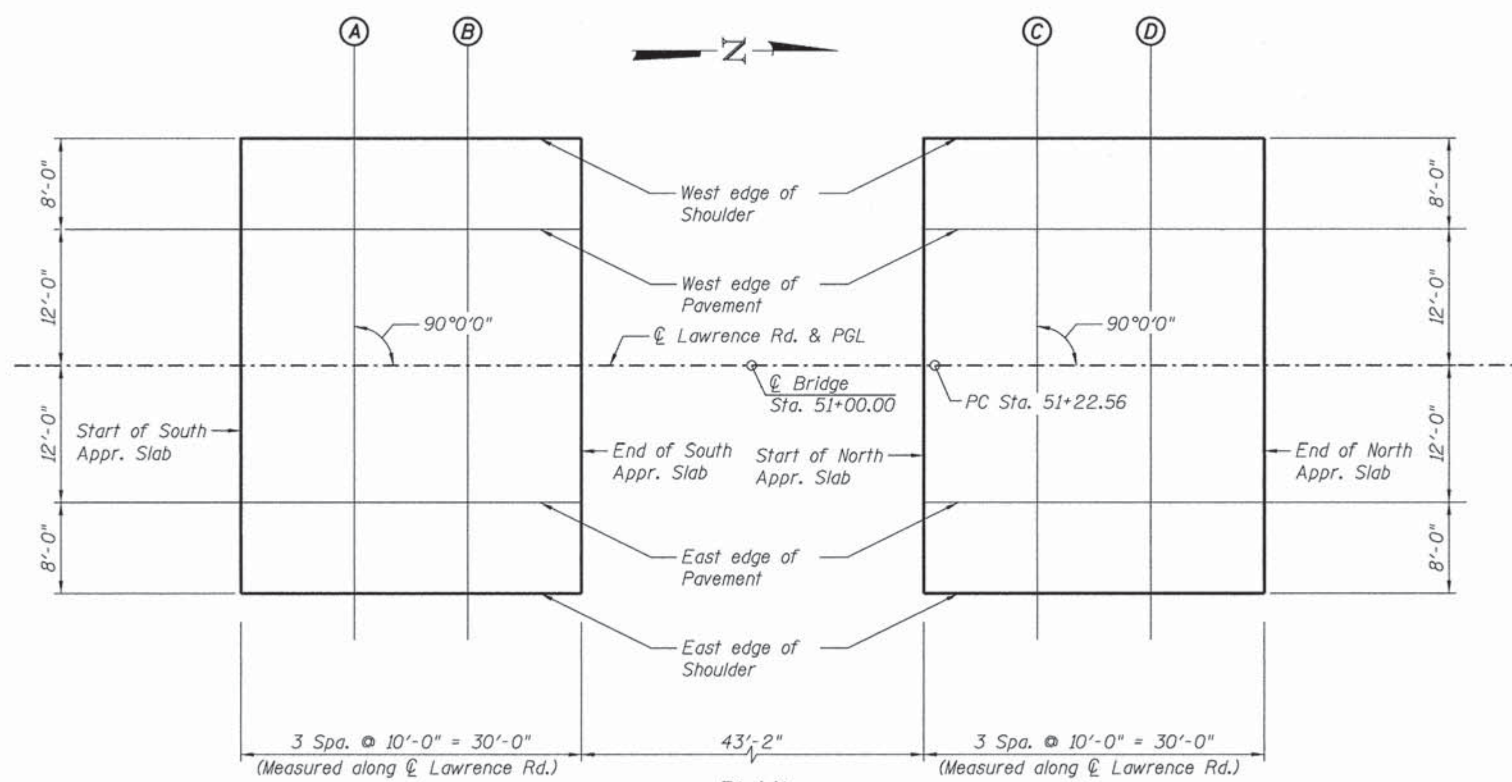
Location	Station	Offset (ft)	Theoretical Grade Elevations
Start S. Appr. Slab	50+48.42	0.00	887.35
A	50+58.42	0.00	887.40
B	50+68.42	0.00	887.44
End S. Appr. Slab	50+78.42	0.00	887.47

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start S. Appr. Slab	50+48.42	12.00	887.53
A	50+58.42	12.00	887.58
B	50+68.42	12.00	887.62
End S. Appr. Slab	50+78.42	12.00	887.65

EAST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start S. Appr. Slab	50+48.42	20.00	887.65
A	50+58.42	20.00	887.70
B	50+68.42	20.00	887.74
End S. Appr. Slab	50+78.42	20.00	887.77



PLAN

NORTH APPROACH

WEST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start N. Appr. Slab	51+21.58	-20.00	887.24
C	51+31.58	-20.00	887.24
D	51+41.58	-20.00	887.24
End N. Appr. Slab	51+51.58	-20.00	887.23

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start N. Appr. Slab	51+21.58	-12.00	887.36
C	51+31.58	-12.00	887.36
D	51+41.58	-12.00	887.36
End N. Appr. Slab	51+51.58	-12.00	887.35

℄ ROADWAY & PGL

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start N. Appr. Slab	51+21.58	0.00	887.54
C	51+31.58	0.00	887.54
D	51+41.58	0.00	887.54
End N. Appr. Slab	51+51.58	0.00	887.53

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start N. Appr. Slab	51+21.58	12.00	887.72
C	51+31.58	12.00	887.72
D	51+41.58	12.00	887.72
End N. Appr. Slab	51+51.58	12.00	887.71

EAST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
Start N. Appr. Slab	51+21.58	20.00	887.84
C	51+31.58	20.00	887.84
D	51+41.58	20.00	887.84
End N. Appr. Slab	51+51.58	20.00	887.83

PEN TABLE = $PENTBLS$
PLOT DRIVER = $PLTDRV$

DIRECTORY = L:\McHenryCo\1421801\Draw\CADD_Sheets\S_05_Approach Slab Elevations.dgn
USER NAME = Mike Moes

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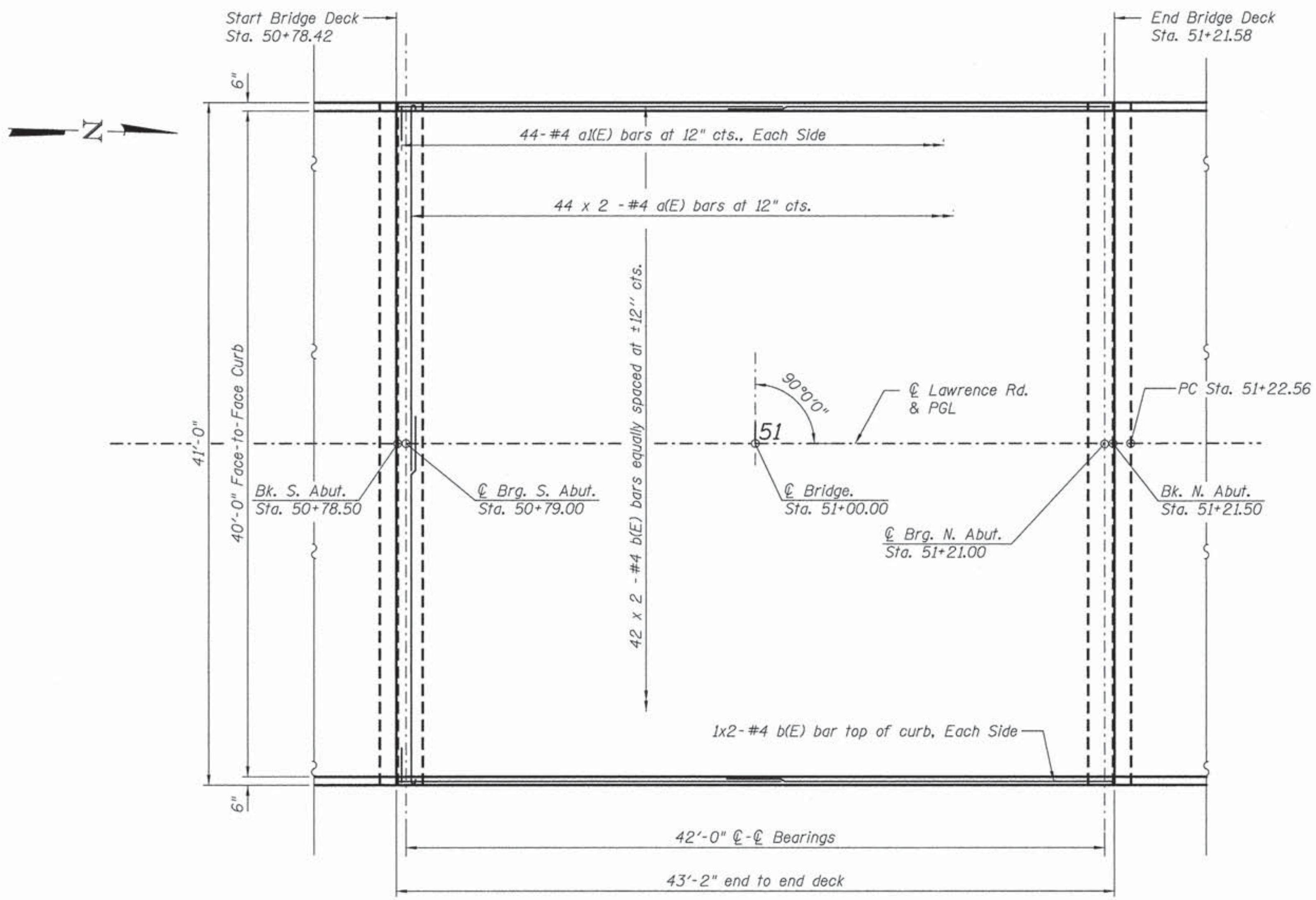
FILE NAME = Mike Moes	DESIGNED - PA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
MODEL NAME = Default	DRAWN - DH	REVISED -	
PLOT SCALE = 8.0001 '/ in.	CHECKED - WLB	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

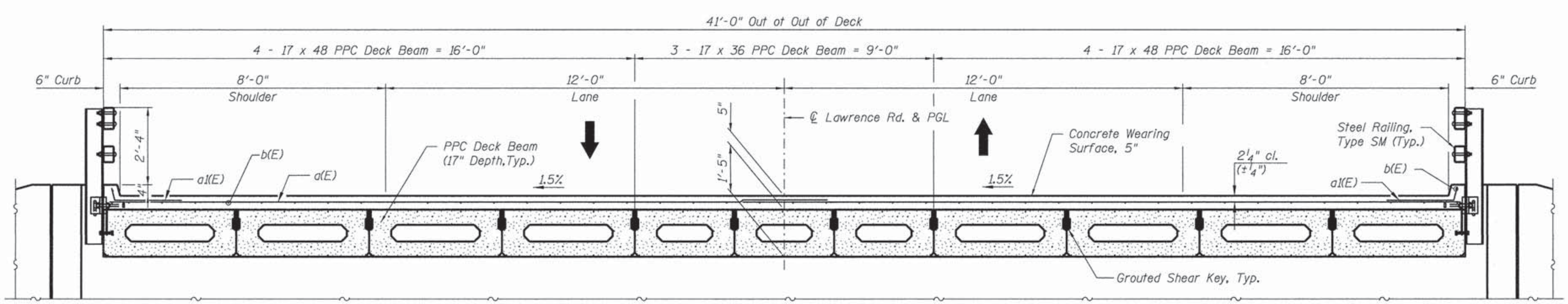
APPROACH SLAB ELEVATIONS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 5 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	40
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION

(Looking North)

MINIMUM BAR LAP

(Deck)

#4 = 2'-7"

NOTES

1. See Sheet S-7 of S-21 for superstructure details, and Bill of Material.
2. Bars indicated thus 4 x 3 -#5 etc. indicates 4 lines of bars with 3 lengths per line.

CMT	USER NAME = Mike Moss	DESIGNED - PA	REVISED -
	MODEL NAME = Default	DRAWN - DH	REVISED -
	PLOT SCALE = 4.5000 '/ in.	CHECKED - WLB	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN AND CROSS SECTION
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 6 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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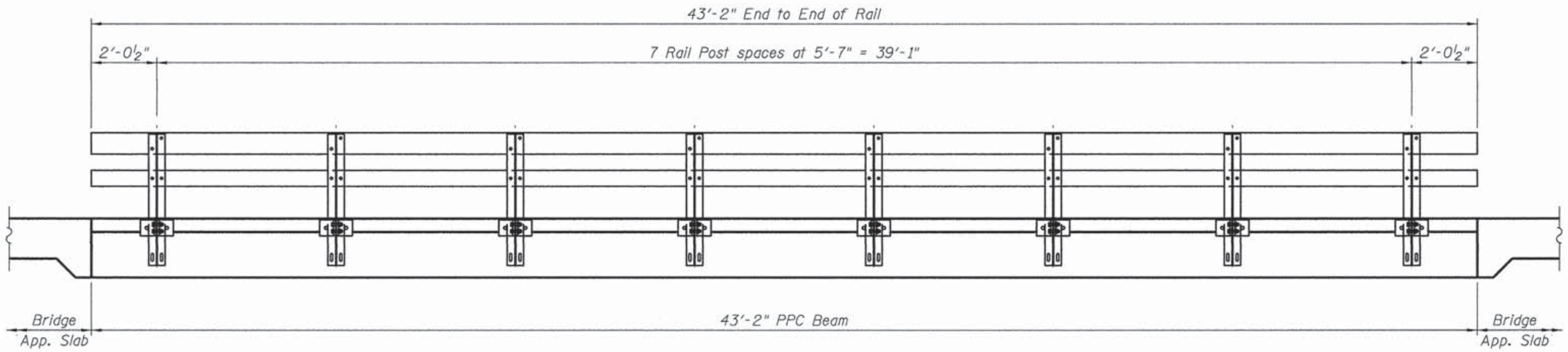
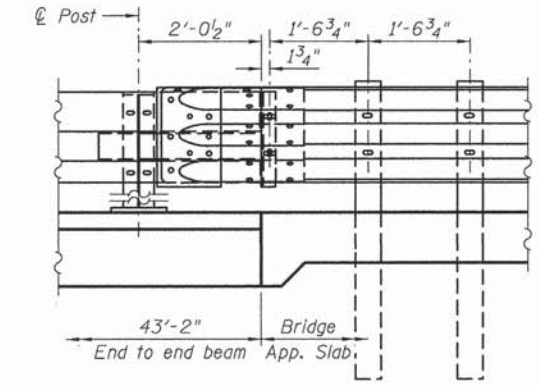
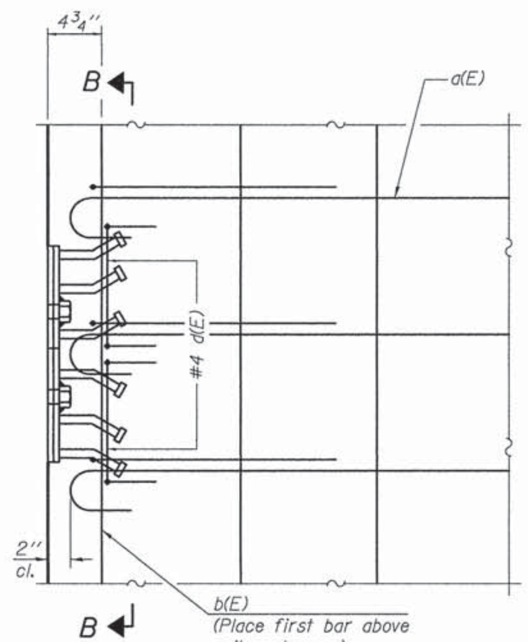
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



RAILING ELEVATION

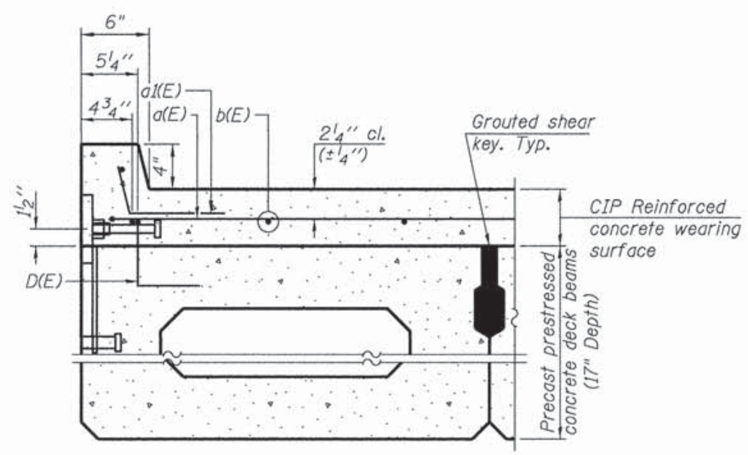


DETAIL AT GUARDRAIL

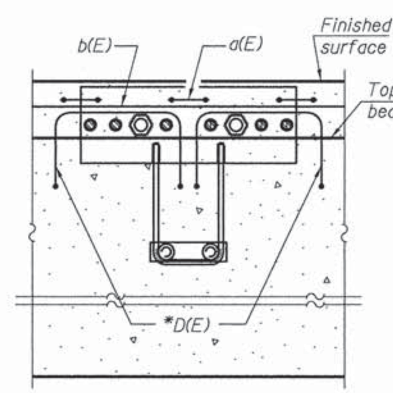


PLAN

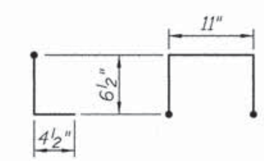
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

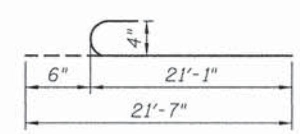


SECTION B-B

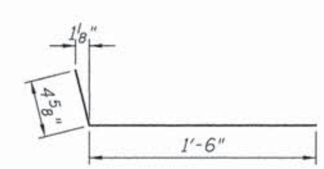


BAR D(E)**

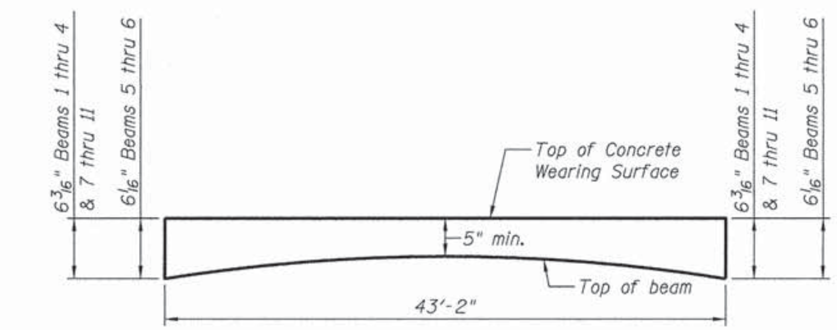
* Place 2-#4 D(E) bars in beam at each post location as shown.
** D(E) bar included in cost of beam.



BAR a(E)



BAR a1(E)



ANTICIPATED CONRETE WEARING SURFACE PROFILE

(For information only)

BILL OF MATERIAL

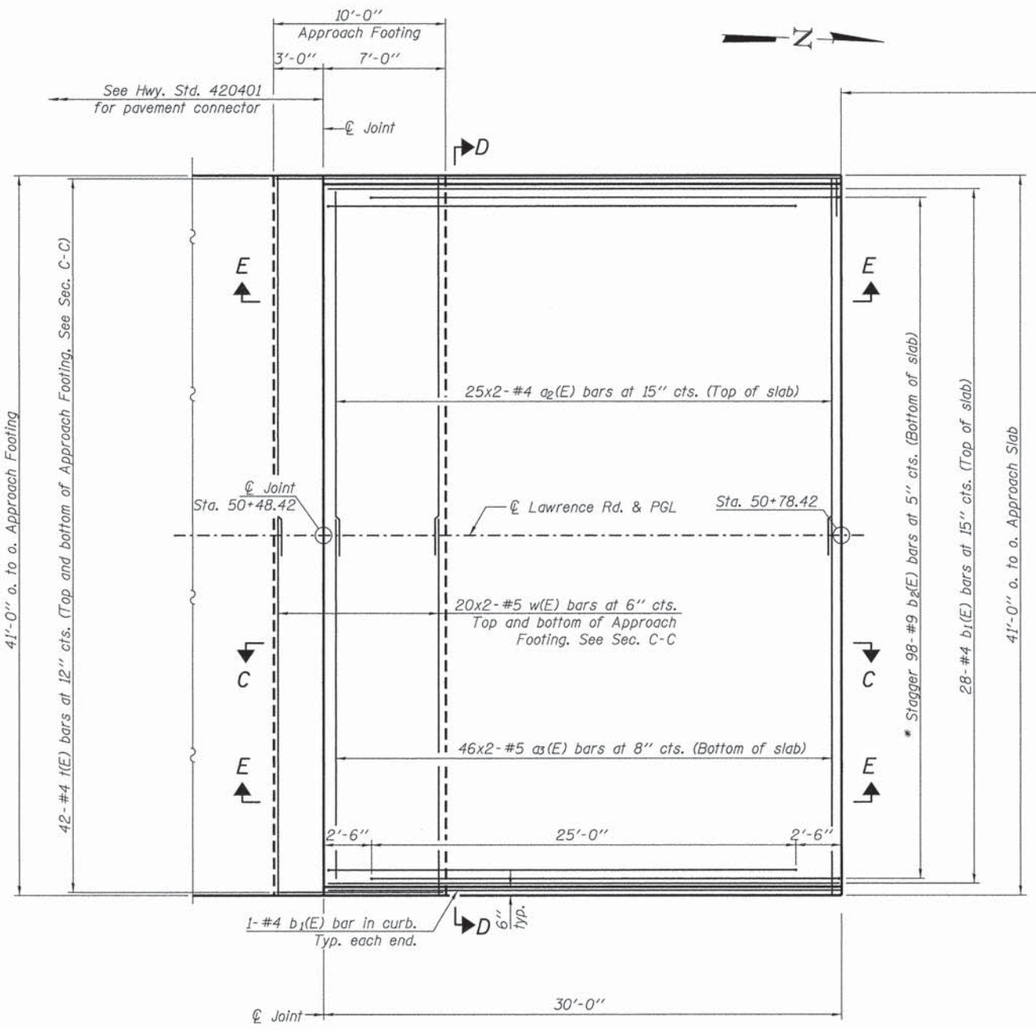
Bar	No.	Size	Length	Shape
a(E)	88	#4	21'-7"	
a1(E)	88	#4	1'-11"	
b(E)	88	#4	22'-7"	
Bridge Deck Grooving		Sq. Yd.	182	
Protective Coat		Sq. Yd.	200	
Reinforcement Bars, Epoxy Coated		Pound	2,710	
Concrete Wearing Surface, 5"		Sq. Yd.	197	

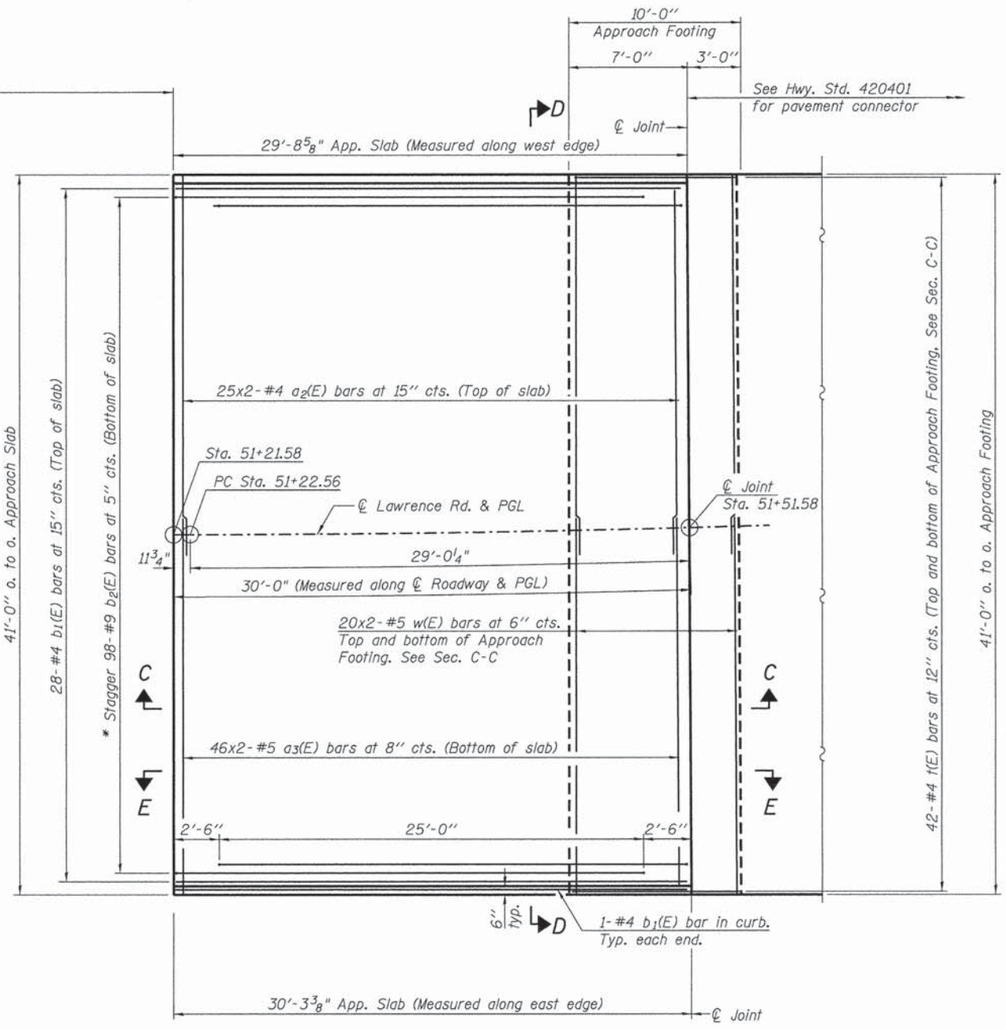
NOTE:
1. See Sheet S-17 of S-21 for Railing Details.

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRV$

DIRECTORY = L:\McHenryCo\1421601\Draw\CADD_Sheets\S_07_Superstructure Details.dgn
USER NAME = Mike Moes

CMT	USER NAME = Mike Moes	DESIGNED - PA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188	F.A. RTE. 4079	SECTION 10-00376-00-BR
	MODEL NAME = Default	DRAWN - DH	REVISED -			COUNTY MCHENRY	TOTAL SHEETS 73 / SHEET NO. 42
License No. 184-000613 ©Copyright CMT, Inc.	PLOT SCALE = 2.2500 '/ in.	CHECKED - WLB	REVISED -		SCALE: SHEET 7 OF 21 SHEETS STA. TO STA.	CONTRACT NO. 61B85	
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -			ILLINOIS FED. AID PROJECT	





PLAN

* Tilt #9 $b_2(E)$ bars as required to maintain clearance.

MINIMUM BAR LAP

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

NOTES

1. See sheet S-09 of S-21 for Sections C-C & D-D and View E-E.
2. $a_2(E)$, and $a_3(E)$ bar spacings measured along ℄ Rdwy.
3. Bars indicated thus 12 x 2 -#4 etc. indicates 12 lines of bars with 2 lengths per line.

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PLOT DRIVER = #PLTDRV59

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USER NAME = Mike Moos

CMT
License No. 184-000613

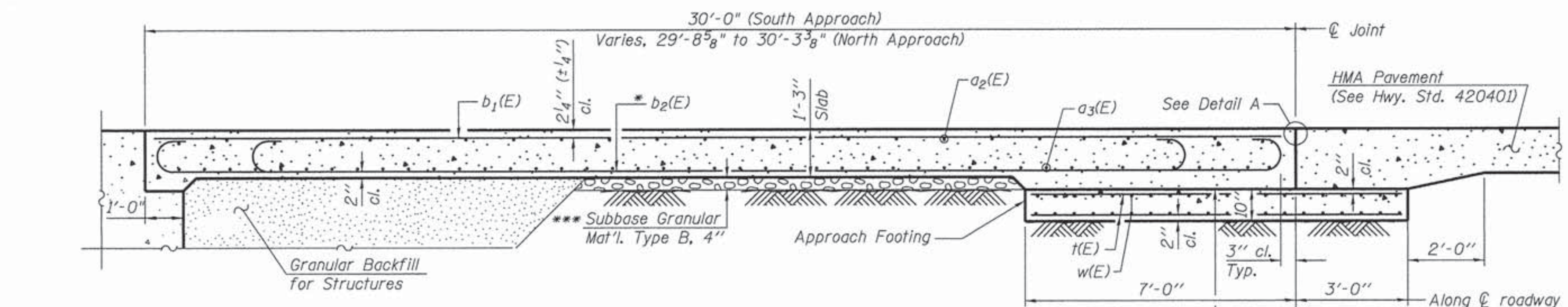
BBER NAME = Mike Moos	DESIGNED - PA	REVISED -
MODEL NAME = Default	DRAWN - DH	REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB PLAN
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 8 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	43
		CONTRACT NO. 61885		
	ILLINOIS FED. AID PROJECT			



* Tilt #9 $b_2(E)$ bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

SECTION C-C

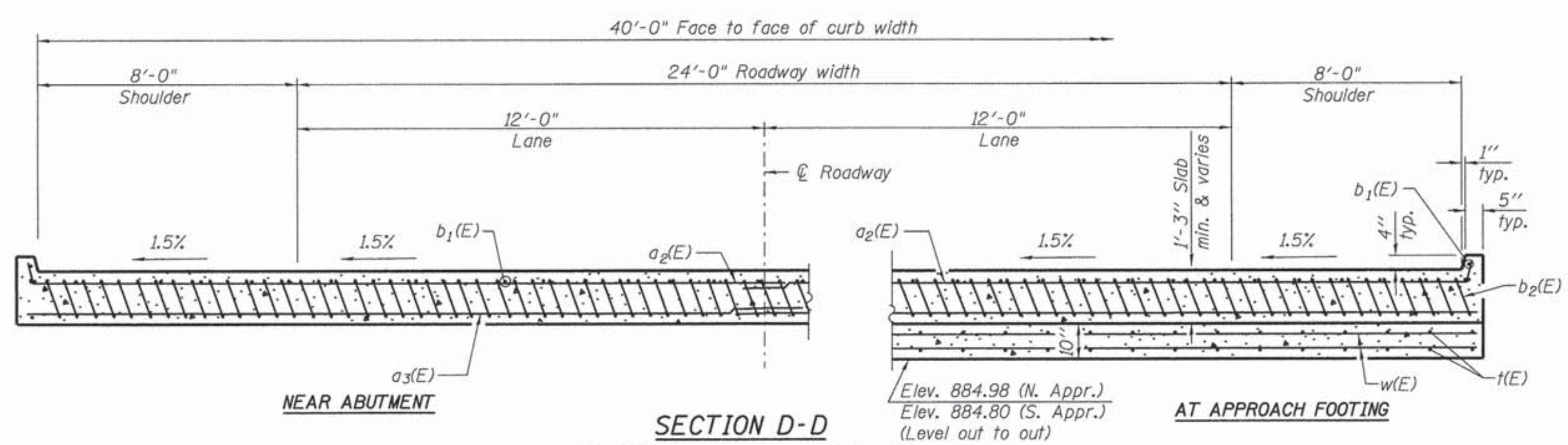
*** 10 mil. Polyethylene bond breaker on steel trowel finish

BILL OF MATERIAL

(Two Approaches)

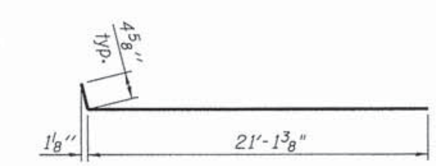
Bar	No.	Size	Length	Shape
$a_2(E)$	100	#4	21'-6"	
$a_3(E)$	184	#5	21'-7"	
$b_1(E)$	60	#4	29'-8"	
$b_2(E)$	196	#9	29'-9"	
t(E)	168	#4	9'-8"	
w(E)	160	#5	21'-7"	

Concrete Structures	Cu. Yd.	25.3
Concrete Superstructure	Cu. Yd.	125.5
Bridge Deck Grooving	Sq. Yd.	254
Protective Coat	Sq. Yd.	278
Reinforcement Bars, Epoxy Coated	Pound	31,280

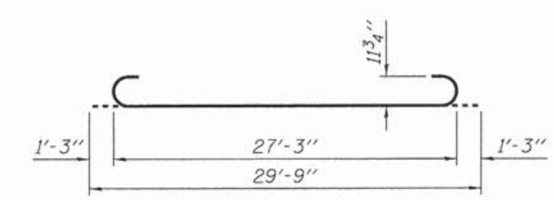


SECTION D-D

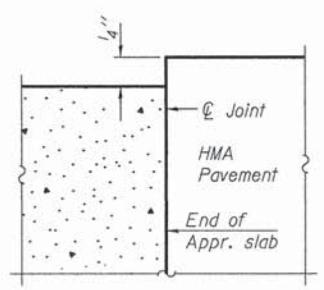
(See Plan for dimensions not shown)



BAR $a_2(E)$

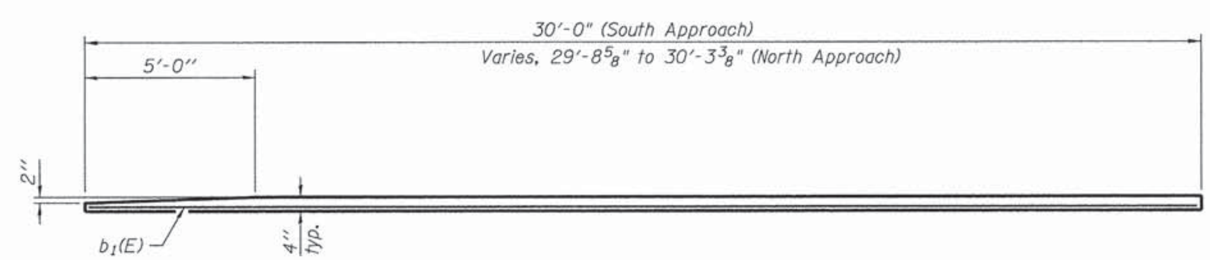


BAR $b_2(E)$



FLEXIBLE PAVEMENT

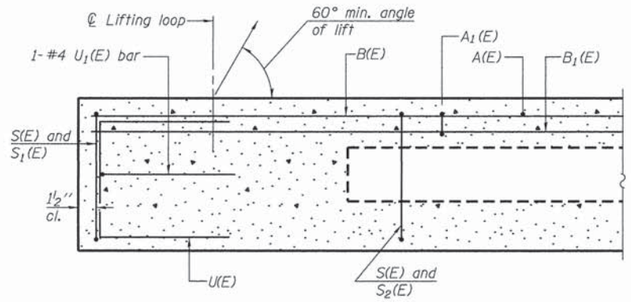
DETAIL A



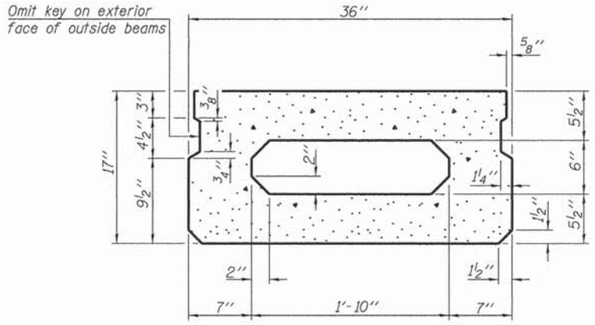
VIEW E-E

NOTES

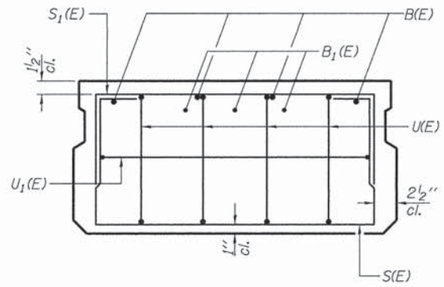
1. Approach slabs shall be paid for as Concrete Superstructure.
2. Approach footing concrete shall be paid for as Concrete Structures.
3. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
4. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
5. Cost of excavation for approach footing included with Concrete Structures.
6. For Granular Backfill for Structures and drainage treatment details, see sheet S-03 of S-21.



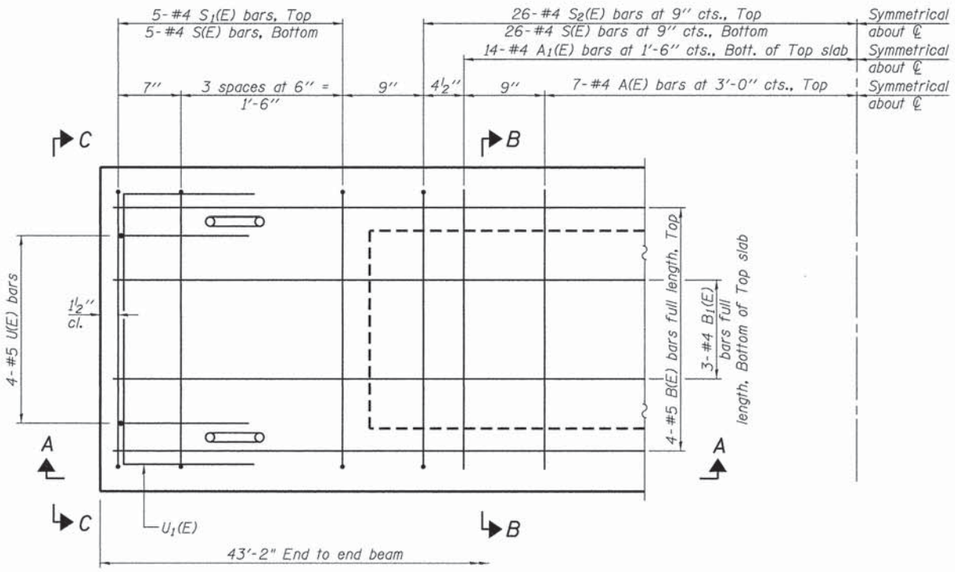
SECTION A-A



SECTION B-B
(Showing dimensions)

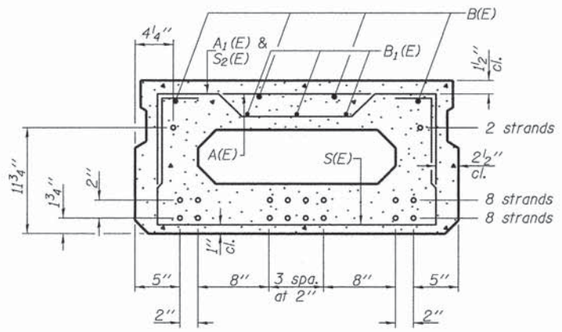


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ 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.



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.

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	2'-7"	—
$A_1(E)$	28	#4	2'-10"	⌒
B(E)	8	#5	22'-9"	—
$B_1(E)$	6	#4	22'-5"	—
S(E)	62	#4	5'-9"	⊐
$S_1(E)$	10	#4	4'-3"	⊐
$S_2(E)$	52	#4	4'-6"	⊐
U(E)	8	#5	3'-8"	⊓
$U_1(E)$	2	#4	5'-0"	⊓

Note: See sheet S-11 of 21 for additional details and Bill of Material.

PEN TABLE = #PENTABLE#
PLOT DRIVER = #PLTDRVR#

DIRECTORY = L:\Mathews\Civil\431801\Drawn\CADD_Sheets\S_10_17x36 PPC Deck Beam.dgn
USER NAME = Mike Moes

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USER NAME = Mike Moes	DESIGNED - PA	REVISED -	
MODEL NAME = Default	DRAWN - DH	REVISED -	
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17"x36" PPC DECK BEAM
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 10 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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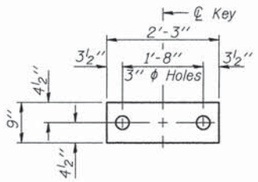
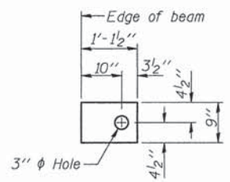
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



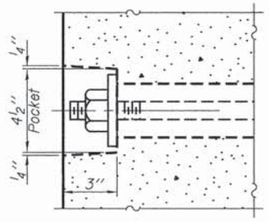
FABRIC BEARING PAD
(Interior)



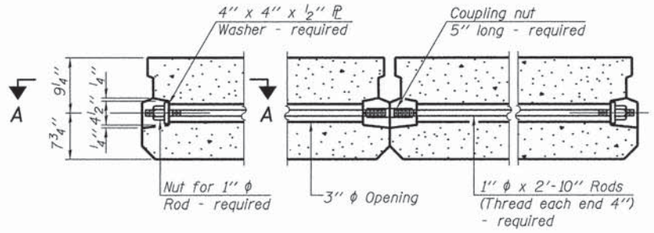
FABRIC BEARING PAD
(Exterior)

FIXED

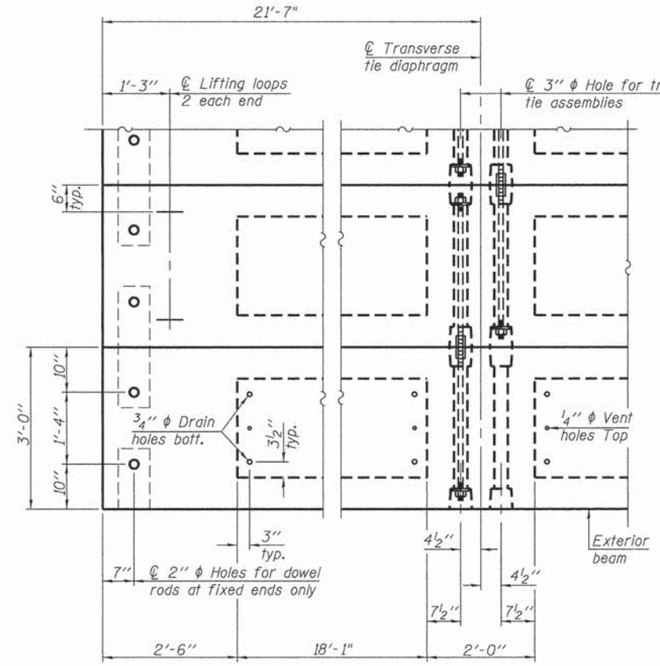
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

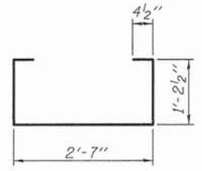


TYPICAL TRANSVERSE TIE ASSEMBLY

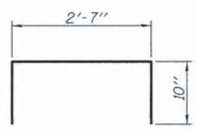


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



BAR S(E)



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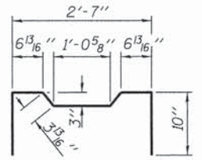
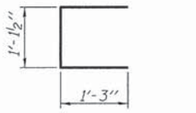
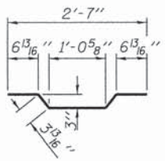


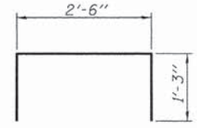
BAR S_2(E)



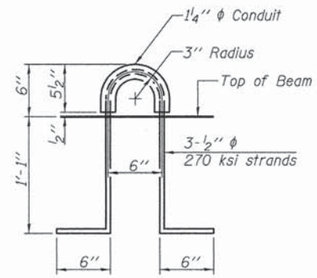
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	388.5

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVS$

DIRECTORY = L:\McHenryCo\1421801\Draw\CADD_Sheets\S_11_17x36 PPC Deck Beam Details.dgn
USER NAME = Mike Moes

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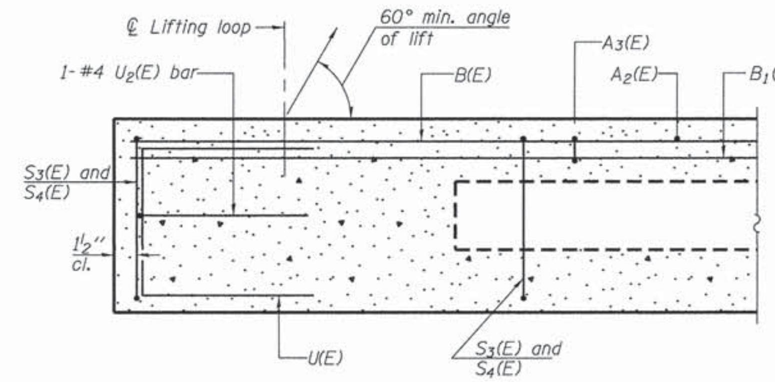
USER NAME = Mike Moes	DESIGNED - PA		REVISED -
MODEL NAME = Default	DRAWN - DH		REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB		REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

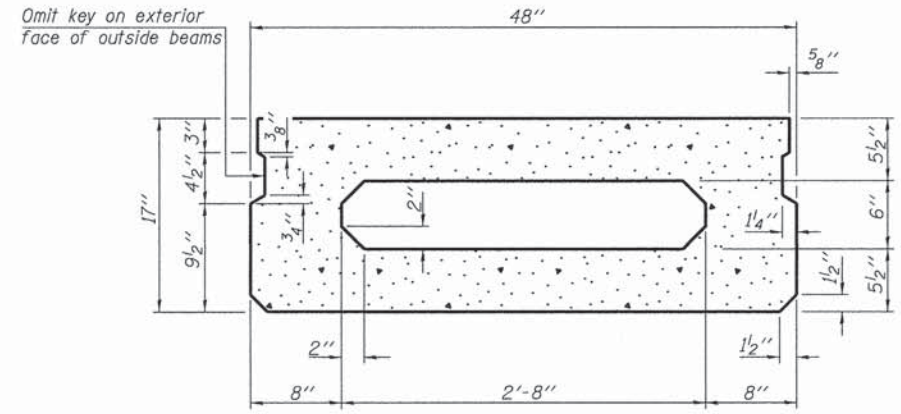
17"x36" PPC DECK BEAM DETAILS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 11 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	46
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

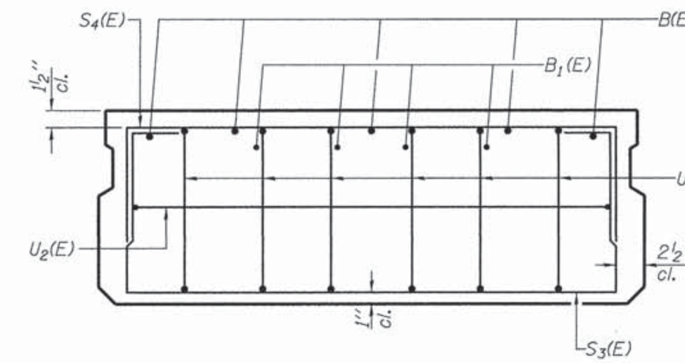


SECTION A-A

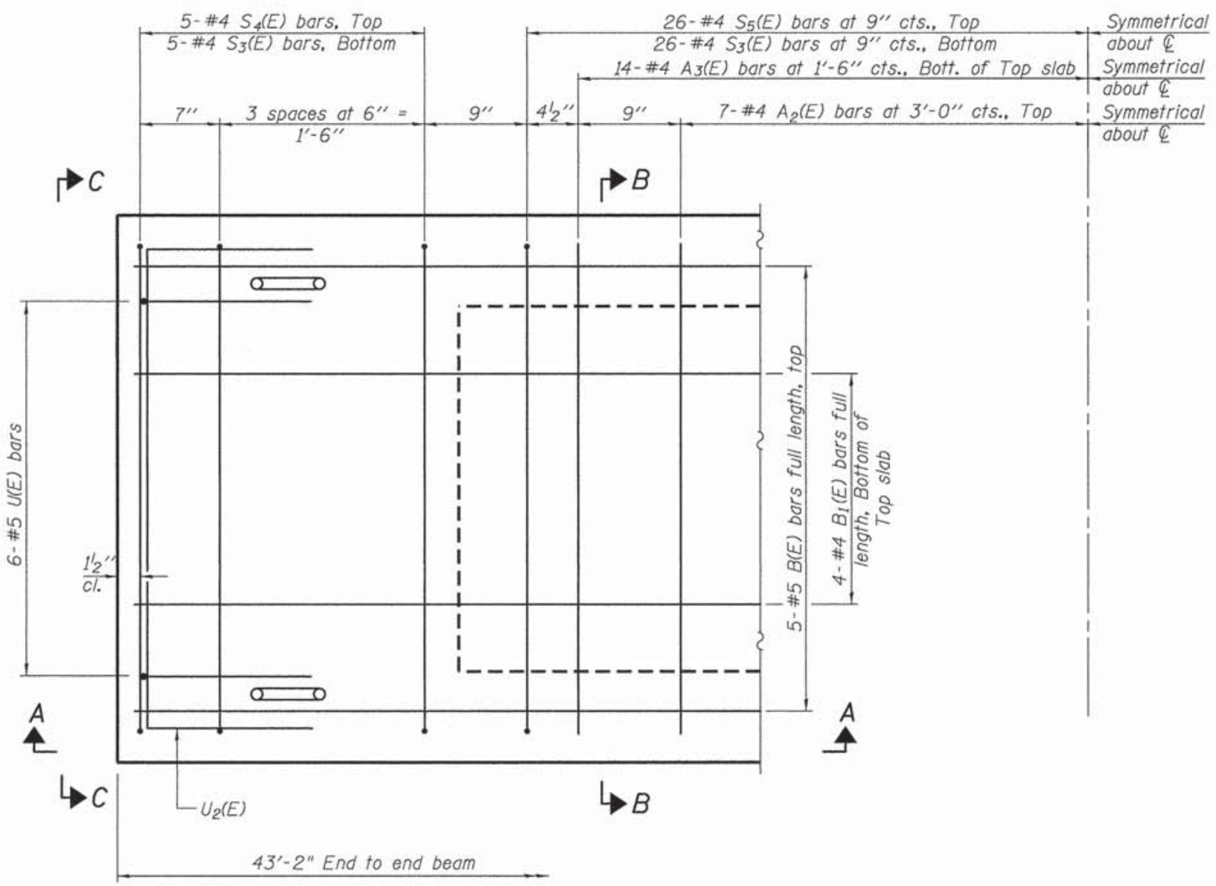


SECTION B-B

(Showing dimensions)

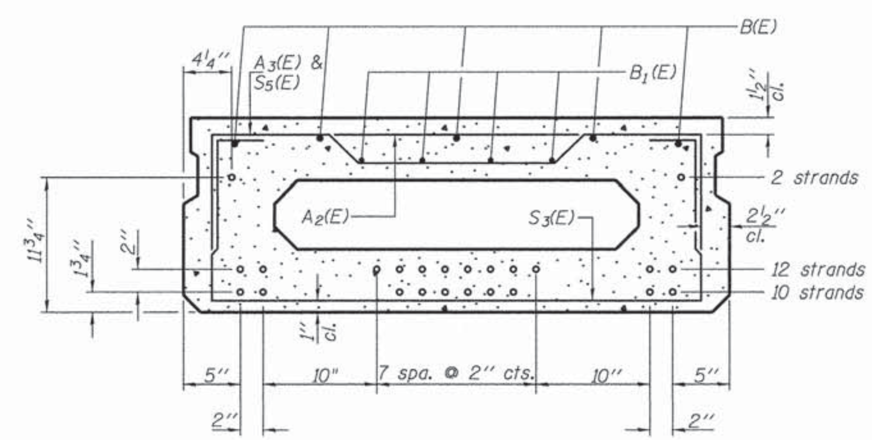


VIEW C-C



PLAN VIEW

Note: Spacing of $S_3(E)$ and $S_5(E)$ 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.



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.

MINIMUM BAR LAP

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

BAR LIST

ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
$A_2(E)$	14	#4	3'-7"	
$A_3(E)$	28	#4	3'-10"	
B(E)	10	#5	22'-9"	
$B_1(E)$	8	#4	22'-5"	
* D(E)	16	#4	2'-9"	
$S_3(E)$	62	#4	6'-9"	
$S_4(E)$	10	#4	5'-3"	
$S_5(E)$	52	#4	5'-6"	
U(E)	12	#5	3'-8"	
$U_2(E)$	2	#4	6'-0"	

Note: See sheet S-13 of 21 for additional details and Bill of Material.

* Only at fascia beams. See sheet S-7 of 21.

PEN TABLE = $PENTBLS$
PLOT DRIVER = $PLTDRVS$

DIRECTORY = L:\McHenryCo\14216\01Draw\CADD_Sheets\S_12_17x48 PPC Deck Beam.dgn
USER NAME = Mike Moss

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USER NAME = Mike Moss	DESIGNED - PA	REVISED -	
MODEL NAME = Default	DRAWN - DH	REVISED -	
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17"x48" PPC DECK BEAM
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: SHEET 12 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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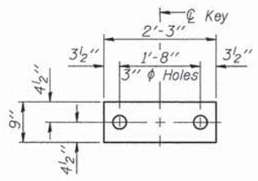
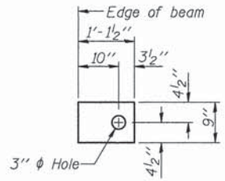
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



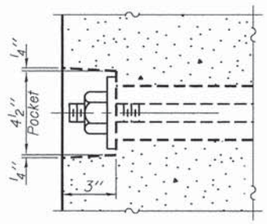
FABRIC BEARING PAD
(Interior)



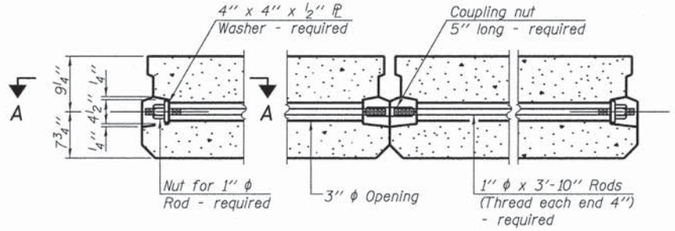
FABRIC BEARING PAD
(Exterior)

FIXED

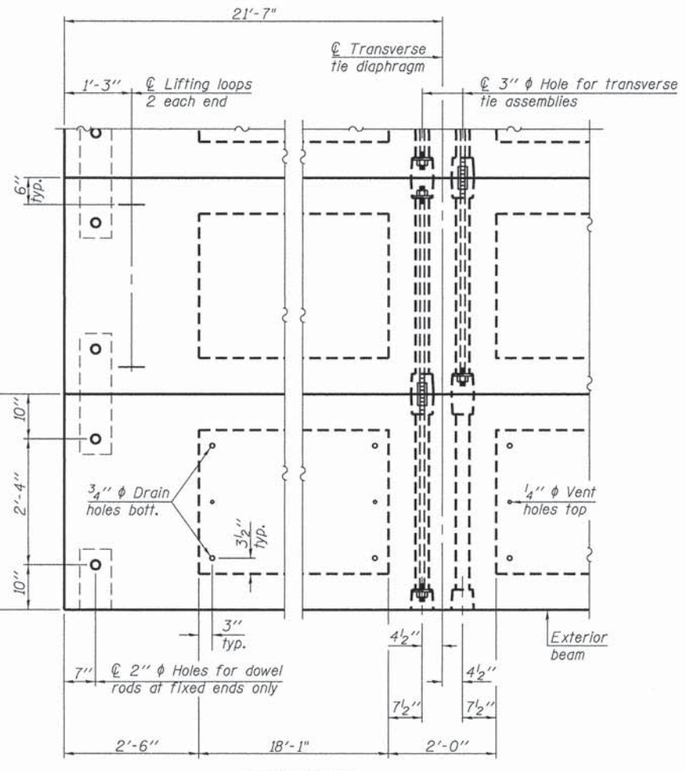
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

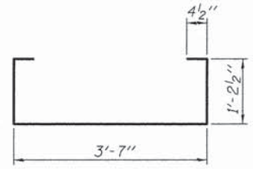


TYPICAL TRANSVERSE TIE ASSEMBLY

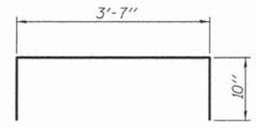


PLAN VIEW

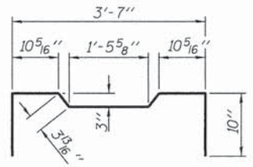
Note: Connect beams in pairs with the transverse tie configuration shown.



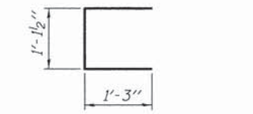
BAR S3(E)



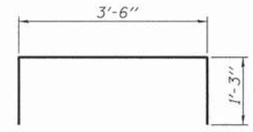
BAR S4(E)



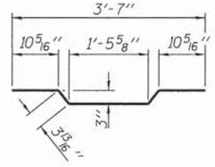
BAR S5(E)



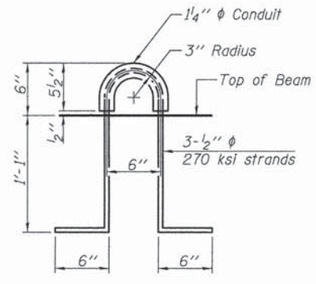
BAR U(E)



BAR U2(E)



BAR A2(E)



LIFTING LOOP DETAIL

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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,381.3

PEN TABLE = #PENTABLE#
PLOT DRIVER = #PLTDRIVER#

DIRECTORY = L:\Working\Civil\61B85\Final\CADD_Sheets\S_13_17x48 PPC Deck Beam Details.dgn
USER NAME = Mike Moes

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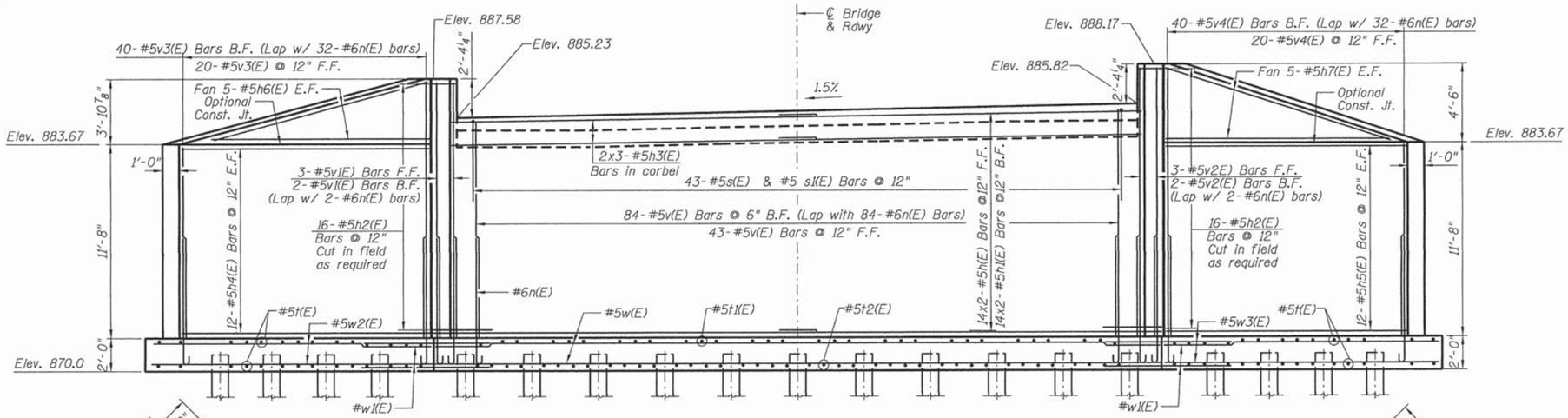
USER NAME = Mike Moes	DESIGNED - PA	REVISED -
MODEL NAME = Default	DRAWN - DH	REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17"x48" PPC DECK BEAM DETAILS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

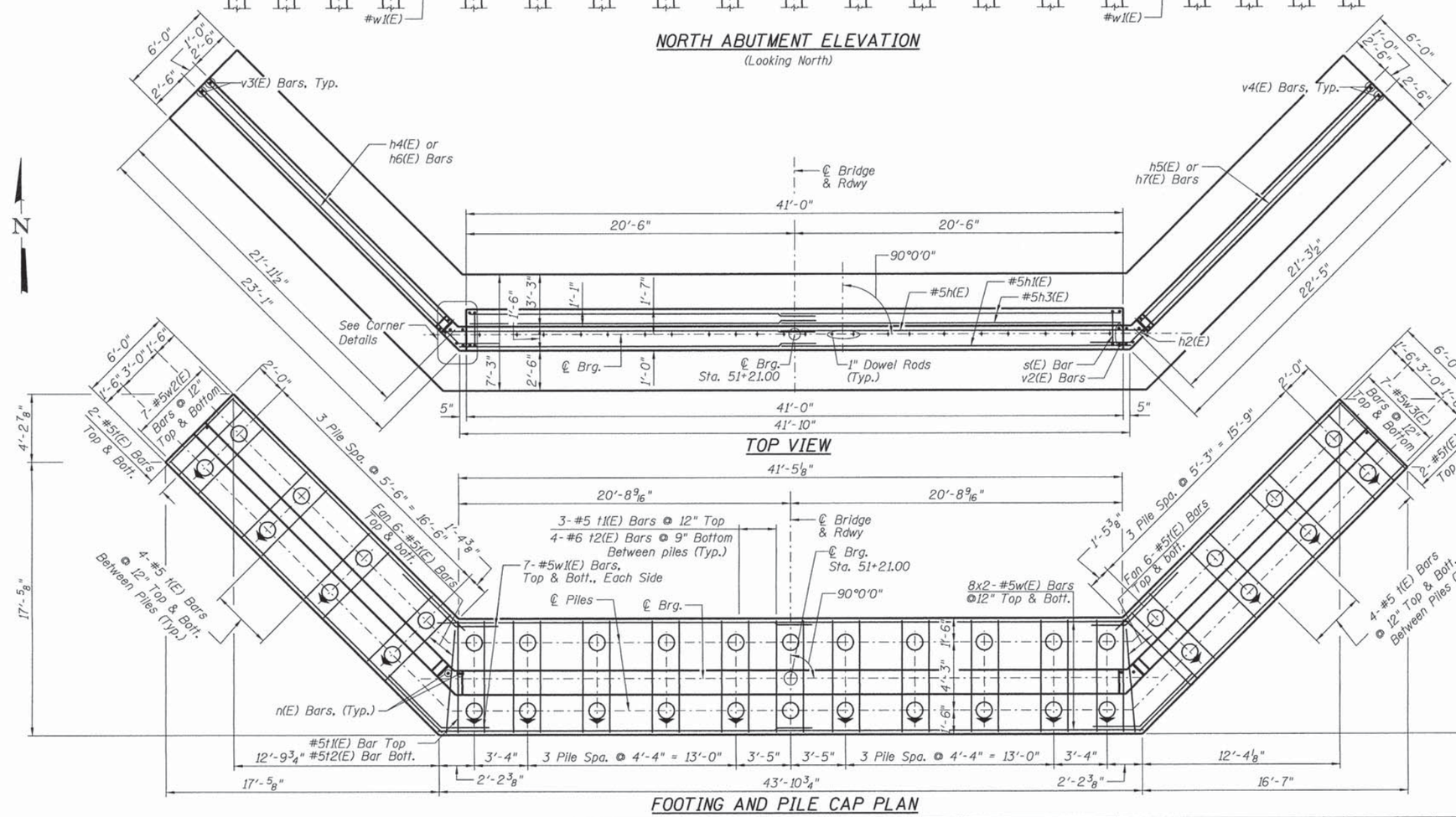
SCALE: | SHEET 13 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	48
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



NORTH ABUTMENT ELEVATION

(Looking North)



TOP VIEW

FOOTING AND PILE CAP PLAN

PILE DATA

Type: Metal Shell Piles 12" x 0.179"
Nominal Required Bearing: 253 K
Factored Resistance Available: 139 K
Est. Length: 27 ft (Straight Pile)
28.5 ft (Battered Pile)
No. Production Piles: 37
No. Test Piles: 1

LEGEND

○ Proposed Pile
○ Proposed Battered Pile

MIN. BAR LAP

#5 bar - 3'-3"

PEN TABLE = $PENTBL$
PLOT STYLER = $PLTSTYL$

DIRECTORY = L:\Active\Civil\16218011\Draw\CADD_Sheets\S_14_North Abutment and Wingwall Details.dgn
USER NAME = Mike Moes

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USER NAME = Mike Moes	DESIGNED - PA	REVISED -
MODEL NAME = Default	DRAWN - DH	REVISED -
PLOT SCALE = 3.7500 ' / in.	CHECKED - WLB	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 14 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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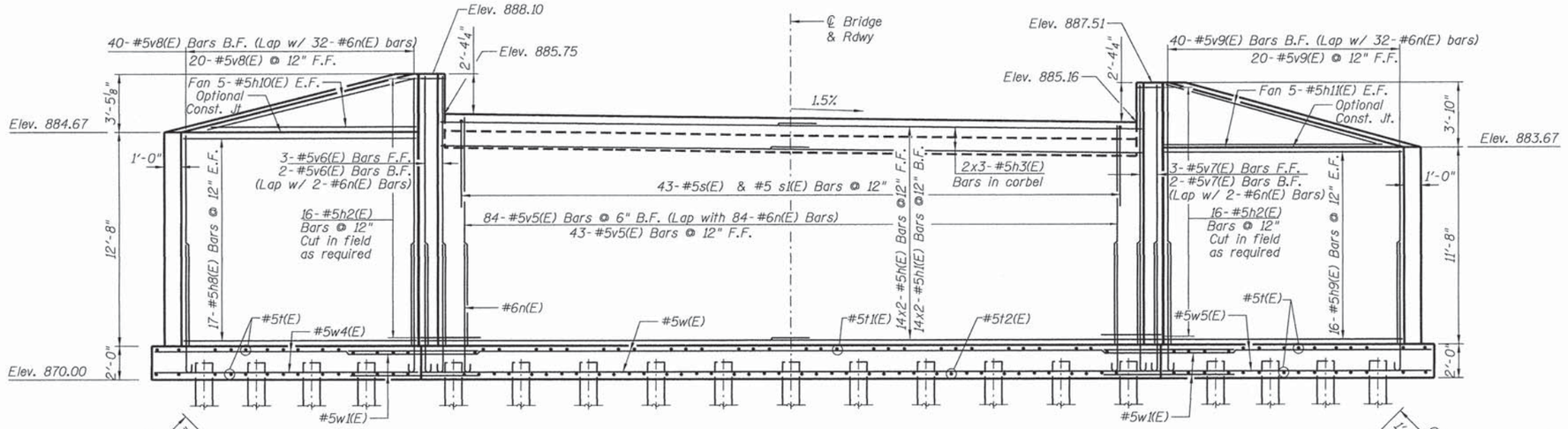
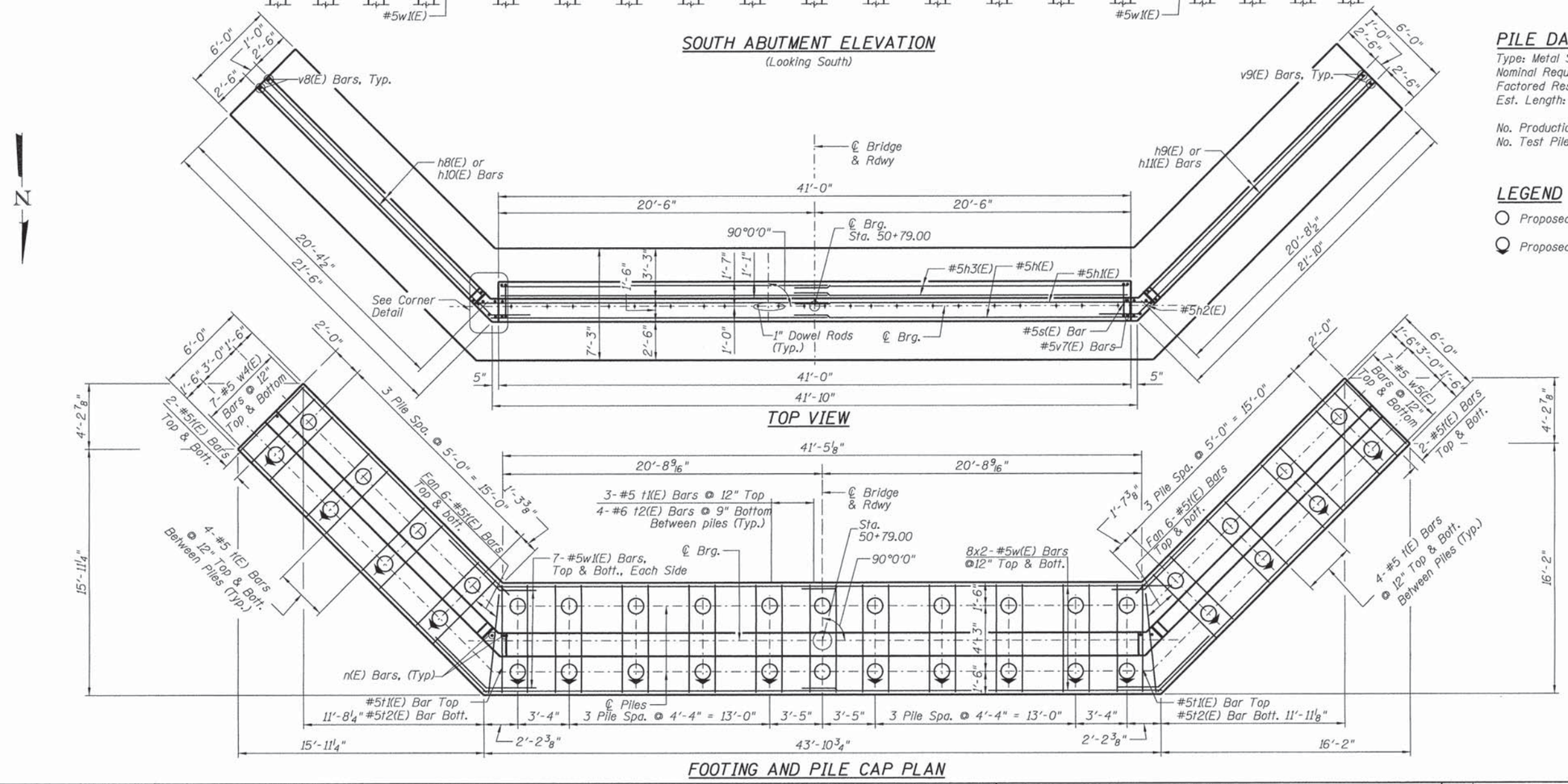
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



SOUTH ABUTMENT ELEVATION

(Looking South)



TOP VIEW

FOOTING AND PILE CAP PLAN

PILE DATA

Type: Metal Shell Piles 12"x0.179"
Nominal Required Bearing: 253 K
Factored Resistance Available: 139 K
Est. Length: 37 ft (Straight Pile)
39 ft (Battered Pile)
No. Production Piles: 37
No. Test Piles: 1

LEGEND

- Proposed Pile
- Proposed Battered Pile

MIN. BAR LAP

#5 bar - 3'-3"

PEN TABLE = #PENTBL.tbl
PLOT DRIVER = #PLTDRVR.tbl

DIRECTORY = L:\McHenry2014218\IDraw\CADD_Sheets\S_15_South Abutment and Wingwall Details.dgn
USER NAME = Mike Moes

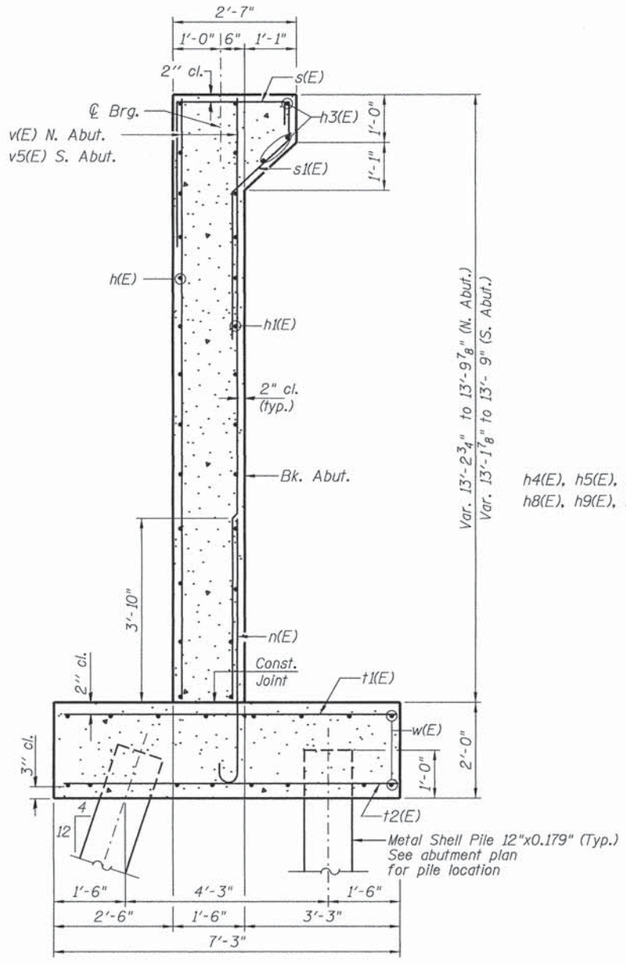
CMT	USER NAME = Mike Moes	DESIGNED - PA	REVISED -
License No. 184-005613	MODEL NAME = Default	DRAWN - DH	REVISED -
	PLOT SCALE = 3.7500 ' / in.	CHECKED - WLB	REVISED -
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

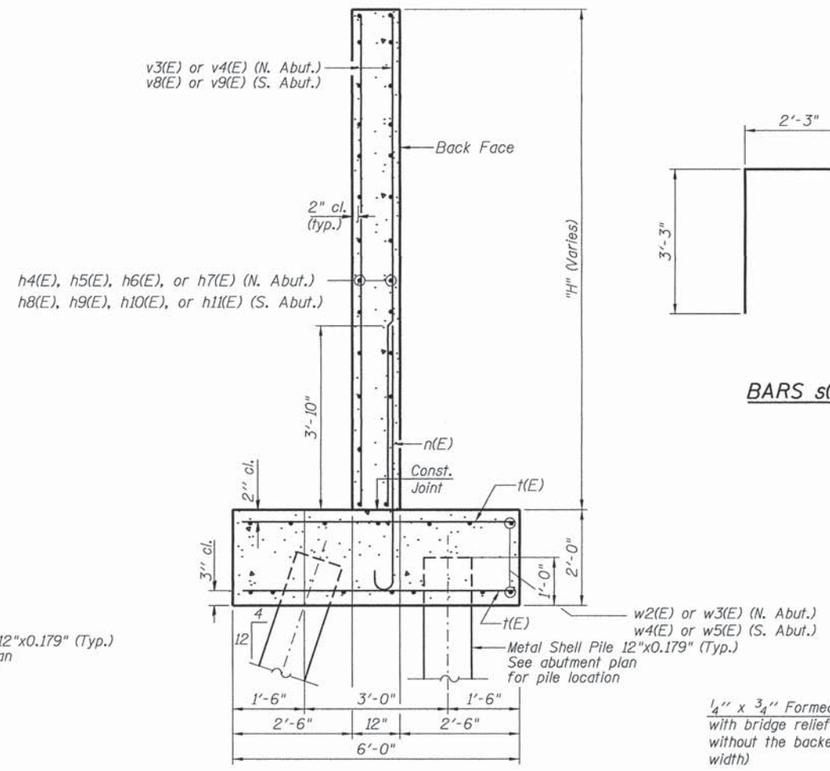
SCALE: | SHEET 15 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	50
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

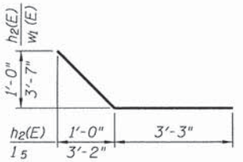


SECTION THRU ABUTMENT

Location	H
W. wingwall, N. Abut.	11'-8" to 15'-6 7/8"
E. wingwall, N. Abut.	11'-8" to 16'-2 1/8"
W. wingwall, S. Abut.	11'-8" to 15'-7"
E. wingwall, S. Abut.	12'-8" to 16'-1 1/8"

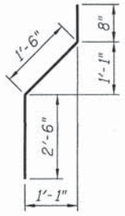


SECTION THRU WINGWALL

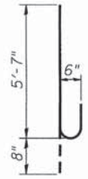


BARS h2(E) & w1(E)

BARS s(E)



BARS s1(E)

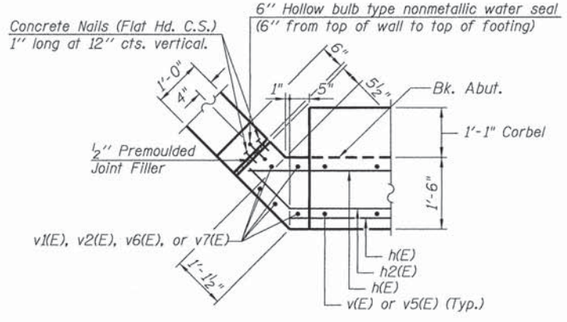


BAR n(E)

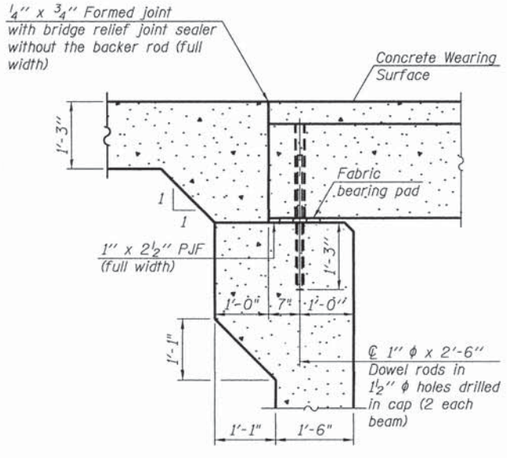
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#5	22-5"	
h1(E)	56	#5	23-4"	
h2(E)	56	#5	4-8"	
h3(E)	12	#5	22-0"	
h4(E)	24	#5	21-1"	
h5(E)	24	#5	20-5"	
h6(E)	10	#5	20-4"	
h7(E)	10	#5	19-6"	
h8(E)	34	#5	19-2"	
h9(E)	32	#5	19-10"	
h10(E)	10	#5	18-4"	
h11(E)	10	#5	19-0"	
n(E)	304	#6	6-3"	
s(E)	86	#5	5-9"	
s1(E)	86	#5	4-8"	
t(E)	160	#5	5-6"	
t1(E)	60	#5	6-11"	
t2(E)	80	#6	6-11"	
v(E)	127	#5	12-11"	
v1(E)	5	#5	15-3"	
v2(E)	5	#5	15-10"	
v3(E)	60	#5	15-2"	
v4(E)	60	#5	15-9"	
v5(E)	127	#5	13-5"	
v6(E)	5	#5	15-9"	
v7(E)	5	#5	15-2"	
v8(E)	60	#5	15-8"	
v9(E)	60	#5	15-1"	
w(E)	64	#5	22-4"	
w1(E)	56	#5	8-0"	
w2(E)	14	#5	23-3"	
w3(E)	14	#5	23-5"	
w4(E)	14	#5	22-5"	
w5(E)	14	#5	22-6"	

Structure Excavation	Cu. Yd.	510
Cofferdam Excavation	Cu. Yd.	66
Concrete Structures	Cu. Yd.	198.4
Reinforcement Bars, Epoxy Coated	Pound	23,340
Furnishing Metal Shell Piles 12" x 0.179"	Foot	2,431
Driving Piles	Foot	2,431
Test Pile Metal Shells	Each	2
Pile Extraction	Each	12



CORNER DETAIL



ABUTMENT DETAIL

NOTES

1. Dowel bars shall be installed according to IDOT GBSP 62.
2. Weep holes at abutments and wingwalls shall be provided at 8 feet spacing.

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVR$

DIRECTORY = L:\McHenry\Civil\1421601\Dsn\CADD_Sheets\S_16_AbutmentDetails.dgn
USER NAME = Mike Moes

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USER NAME = Mike Moes	DESIGNED - PA	REVISED -	
MODEL NAME = Default	DRAWN - DH	REVISED -	
PLOT SCALE = 1.5000 ' / in.	CHECKED - WLB	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 16 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	51
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

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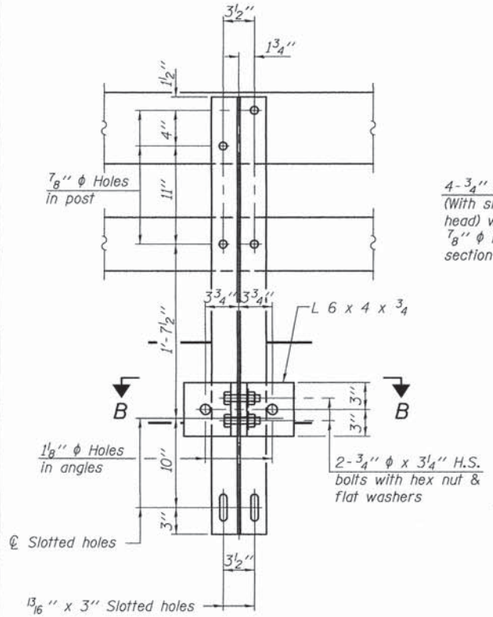
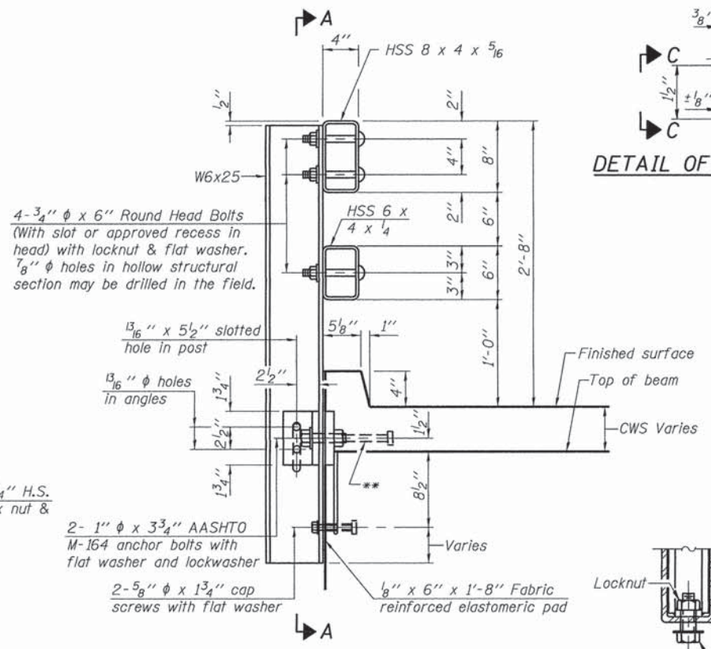
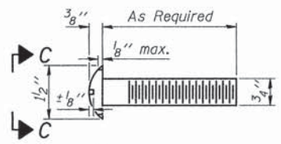
PLOT DRIVER = #PLTDRV$



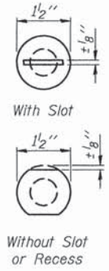
SECTION A-A



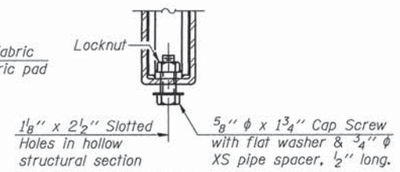
SECTION AT RAIL POST



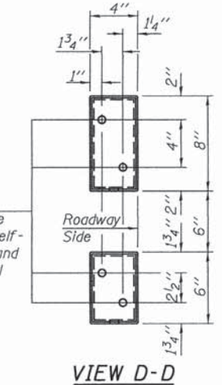
DETAIL OF ¾" ϕ ROUND HEAD BOLT



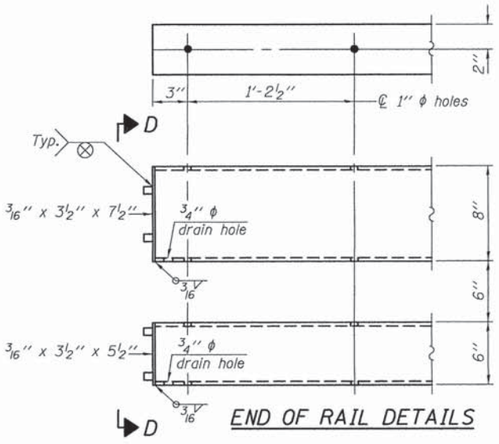
VIEW C-C



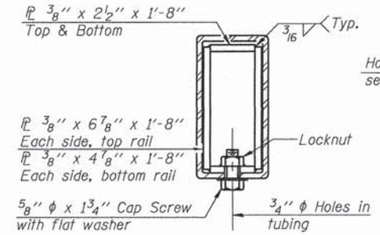
RAIL SPLICE CONNECTION AT EXPANSION JT.



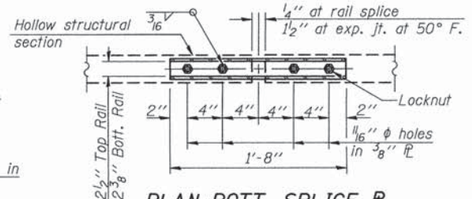
VIEW D-D



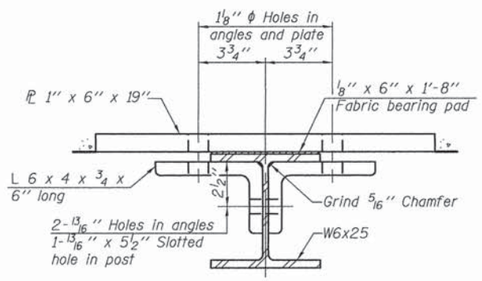
END OF RAIL DETAILS



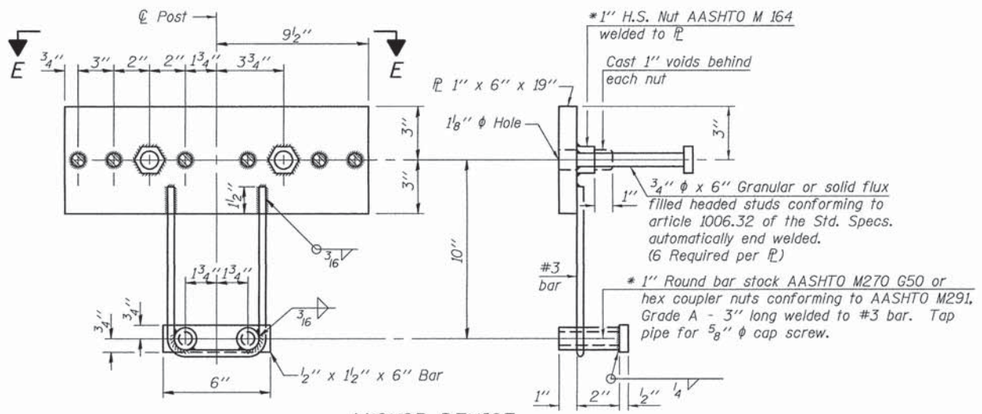
SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE PL TYPICAL

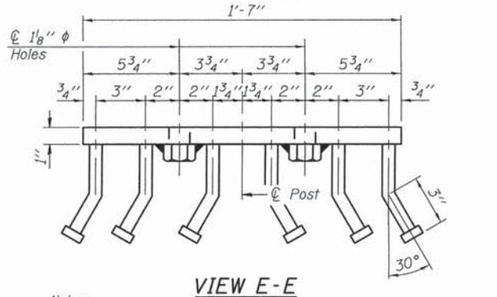


SECTION B-B



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



VIEW E-E

Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

All steel railing elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	87

DIRECTORY = L:\McHenry\Civil\142801\Dsn\CADD_Sheets\S_17_Railing Details.dgn
USER NAME = Mike Moos

CMT
License No. 184-000613

USER NAME = Mike Moos	DESIGNED - PA	REVISED -
MODEL NAME = Default	DRAWN - DH	REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

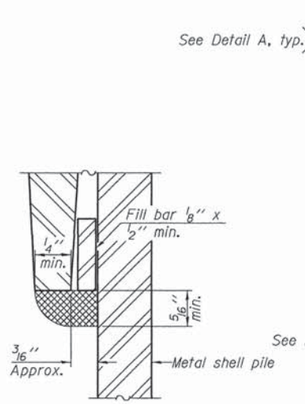
RAILING DETAILS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 17 OF 21 SHEETS | STA. | TO STA.

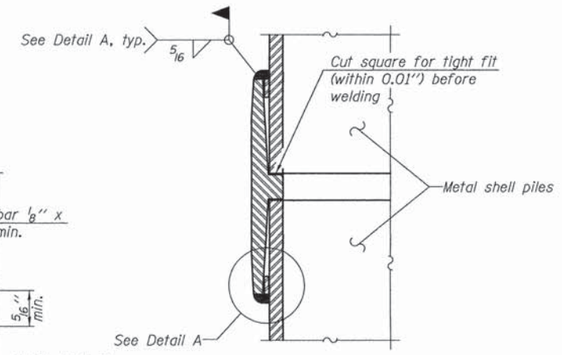
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	52
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume ($yd.^3$/ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361

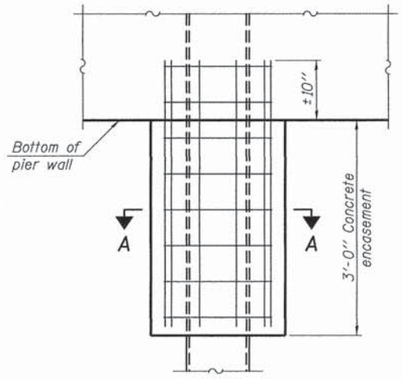


DETAIL A

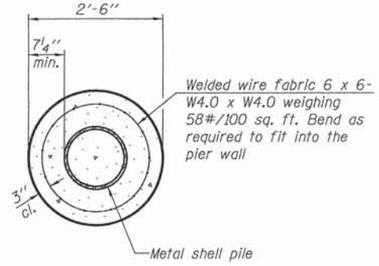


Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



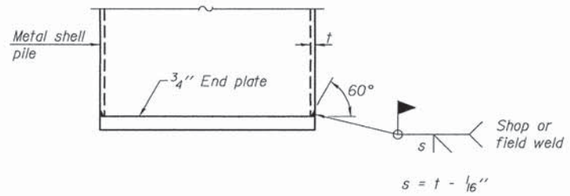
ELEVATION



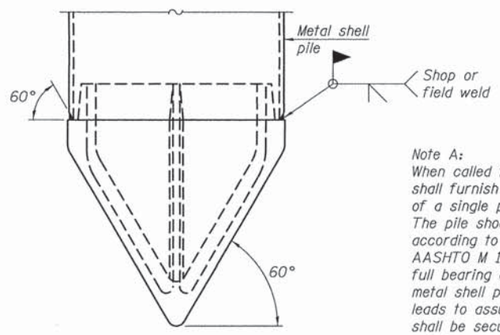
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS

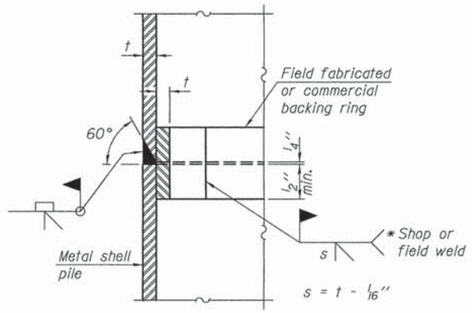


END PLATE ATTACHMENT

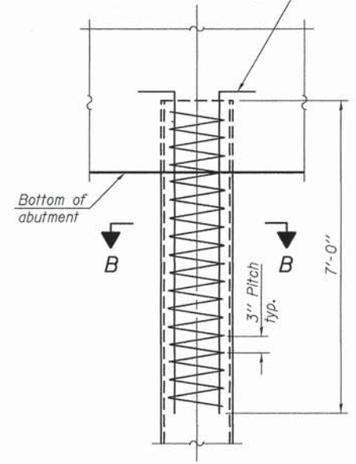


Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

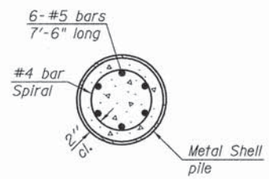
METAL SHELL PILE SHOE ATTACHMENT
(See Note A)



COMPLETE PENETRATION WELD SPLICE
* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 7-1-10

USER NAME = Mike Moes	DESIGNED - PA	REVISED -	
MODEL NAME = Default	DRAWN - DH	REVISED -	
PLOT SCALE = 8.0000 ' / in.	CHECKED - WLB	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET 18 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	53
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

PEN TABLE = #PENTBL$#
PLOT DRIVER = #PLTDRV$#

DIRECTORY = L:\Metro\Cad\42181\Draw\CADD_Sheets\S_18_Metal Shell Pile Details.dgn
USER NAME = Mike Moes

PEN TABLE = $PENTBLS$
PLOT DRIVER = $PLTDRV$

SOIL BORING LOG — SB-1 (South Abut.), Page 1 of 2

Chicago Testing Laboratory, Inc. — Illinois Department of Transportation

SOIL BORING LOG Page 1 of 2 Date 3/1/11

ROUTE CH 750 **DESCRIPTION** Lawrence Rd. Bridge, 0.3 mi. south of Oak Grove Rd **LOGGED BY** D. Sisson

SECTION 10-00376-00-BR **LOCATION** NW 1/4 & NE 1/4 of SW 1/4 **SEC.** 27 **TWP.** 46N **RNG.** 5E **PM**

COUNTY McHenry **STRUCTURE NO.** 056-3012 **(Exist.)** **(Prop.)**

BORING NO. SB-1 (South Abut.) **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** Auto

Station 50+74.84
Offset 6.4' R of C.L.
Ground Surface Elev. 886.72 (ft.)

Surface Water Elev. -8.0 (ft.)
Groundwater Elev.
First Encounter -8.5 (ft.)
Upon Completion ___ (ft.)
After ___ Hrs. ___ (ft.)

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
3-1/2" Asphalt Pavement over 8" Sand and Gravel Base, A-1-b				
Medium Dense Dark Brown mixed Loam to Clay Loam, A-2-4 to A-2-6 (FILL)		4 6 4		6
Medium Stiff, Black Silty Clay Loam, Topsoil with trace organic matter (brown fibers), A-6	-5	3 2 3	0.5 P	29
Stiff Grey Silty Clay Loam with trace organic matter (brown fibers), A-6		2 2 3	1.0 P	14
Medium Dense Sand (fine to coarse) with some gravel, wet, A-1-b	-10	7 8 10		
Loose Grey Silt, wet, A-4		4 5 3		
becomes Silty Loam with gravel		4		11
Medium Dense Sand with Gravel, wet, A-1-b	-15	11 15		
Medium Dense Sand (fine), wet, A-3		3 6 5		
Soft Grey Silty Clay, A-6(15)	-20	3 3 3	0.47 B	18

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
(continued) Grey Silty Clay, A-6(15)				
becomes stiff		3 3 4	1.55 B	19
becomes very stiff	-25	3 5 5	3.49 BS	22
Medium Dense Sand and Gravel, wet, A-1-b		7 8 11		
	-30	9 6 7		
Stiff to Medium Stiff Grey Clay Loam, some gravel, A-6	-35	3 4 6	1.16 B	13
	-40	3 4 6	0.97 B	12

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SOIL BORING LOG — SB-2 (North Abut.), Page 1 of 2

Chicago Testing Laboratory, Inc. — Illinois Department of Transportation

SOIL BORING LOG Page 1 of 2 Date 3/1/11

ROUTE CH 750 **DESCRIPTION** Lawrence Rd. Bridge, 0.3 mi. south of Oak Grove Rd **LOGGED BY** D. Sisson

SECTION 10-00376-00-BR **LOCATION** NW 1/4 & NE 1/4 of SW 1/4 **SEC.** 27 **TWP.** 46N **RNG.** 5E **PM**

COUNTY McHenry **STRUCTURE NO.** 056-3012 **(Exist.)** **(Prop.)**

BORING NO. SB-2 (North Abut.) **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** Auto

Station 51+25.84
Offset 4.4' R of C.L.
Ground Surface Elev. 886.72 (ft.)

Surface Water Elev. -8.0 (ft.)
Groundwater Elev.
First Encounter -11.0 (ft.)
Upon Completion ___ (ft.)
After ___ Hrs. ___ (ft.)

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
3" Asphalt Pavement over 6" Sand and Gravel base, A-1-b				
Medium Dense Dark Brown mixed Loam to Clay Loam and gravel, A-2-4 to A-2-6 (FILL)		12 14 10		13
Medium Stiff Dark Brown Clay mixed with Black Silty Clay Loam, Topsoil with trace organic matter (br. fibers), A-6 (FILL)	-5	4 3 3	0.5 P	29
Soft Dark Grey Silty Clay Loam with trace organic matter (brown fibers), A-6		2 2 2	0.25 P	25
		2 3		16
Medium Stiff Grey Sandy Clay Loam, A-6	-10	6	0.75 P	13
Loose Sand (fine to coarse) with some gravel, wet, A-1-b		4 2	1.25	14
Stiff Grey Silty Clay, A-6		4	P	
Medium Dense Sand (fine to medium), trace coarse sand, trace gravel, wet, A-3	-15	4 10 11		
Medium Dense Sand (fine) to Sandy Loam, wet, A-3		4 5 6		
Medium Stiff Grey Silty Clay, A-6				
Med. Dense Sandy Loam (f.), wet, A-3		4		
Stiff Grey Silty Clay, A-6	-20	5 3	1.5 P	20

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
(continued) Grey Silty Clay, A-6				
becomes stiff		3 4 4	1.33 B	19
becomes very stiff	-25	3 3 5	3.34 B	18
		8 8	2.0 P	21
Medium Dense Sand (fine to coarse), some gravel, wet, A-1-b		10		
Stiff Grey Clay Loam to Sandy Clay Loam, trace gravel, A-6	-30	3 5 5	1.15 S	16
Loose Grey Sandy Loam, little gravel, A-4(0)	-35	4 4 3		13
(rock in sampler)	-40	3 3 25		9

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SOIL BORING LOG — SB-1 (South Abut.), Page 2 of 2

Chicago Testing Laboratory, Inc. — Illinois Department of Transportation

SOIL BORING LOG Page 2 of 2 Date 3/1/11

ROUTE CH 750 **DESCRIPTION** Lawrence Rd. Bridge, 0.3 mi. south of Oak Grove Rd **LOGGED BY** D. Sisson

SECTION 10-00376-00-BR **LOCATION** NW 1/4 & NE 1/4 of SW 1/4 **SEC.** 27 **TWP.** 46N **RNG.** 5E **PM**

COUNTY McHenry **STRUCTURE NO.** 056-3012 **(Exist.)** **(Prop.)**

BORING NO. SB-1 (South Abut.) **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** Auto

Station 50+74.84
Offset 6.4' R of C.L.
Ground Surface Elev. 886.72 (ft.)

Surface Water Elev. -8.0 (ft.)
Groundwater Elev.
First Encounter -8.5 (ft.)
Upon Completion ___ (ft.)
After ___ Hrs. ___ (ft.)

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
(continued) Medium Stiff Grey Clay Loam, A-6	-45	3 4 5	0.78 B	11
	-50	2 2 10	0.58 BS	10
Loose Sand (fine), moist A-3		4 3		15
Medium Stiff Grey Sandy Clay Loam, A-6	-55	3	0.5 P	12
Very Dense Gravel with Sand (probable cobbles and boulders) Spoon refusal at 58.5 ft. bgs Auger refusal at 59.0 ft. bgs End of Boring at 59.0 ft. bgs	-60	65/1"		

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
	-65			
	-70			
	-75			
	-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SOIL BORING LOG — SB-2 (North Abut.), Page 2 of 2

Chicago Testing Laboratory, Inc. — Illinois Department of Transportation

SOIL BORING LOG Page 2 of 2 Date 3/1/11

ROUTE CH 750 **DESCRIPTION** Lawrence Rd. Bridge, 0.3 mi. south of Oak Grove Rd **LOGGED BY** D. Sisson

SECTION 10-00376-00-BR **LOCATION** NW 1/4 & NE 1/4 of SW 1/4 **SEC.** 27 **TWP.** 46N **RNG.** 5E **PM**

COUNTY McHenry **STRUCTURE NO.** 056-3012 **(Exist.)** **(Prop.)**

BORING NO. SB-2 (North Abut.) **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** Auto

Station 51+25.84
Offset 4.4' L of C.L.
Ground Surface Elev. 886.72 (ft.)

Surface Water Elev. -8.0 (ft.)
Groundwater Elev.
First Encounter -11.0 (ft.)
Upon Completion ___ (ft.)
After ___ Hrs. ___ (ft.)

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
(continued) Medium Dense Grey Sandy Loam, A-4				
Medium Dense Gravel (coarse) and Sand, wet, A-1-b (probable cobbles & boulders to 47 ft. depth	-45	15 13 11		
(driller broke auger cap upon encountering obstruction at 45 ft. depth)				
Medium Dense Sand (fine to coarse), some gravel, wet, A-1-b	-50	5 8 18		
Medium Dense Sand (fine to medium), wet, A-3		4 18		
Dense Sand (fine to coarse) with gravel, wet, A-1-b	-55	22		
	-60	10 12 22		

SOIL DESCRIPTION	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
(continued) Dense Sand (fine to coarse) with gravel, wet, A-1-b				
Dense Grey Sandy Loam with Gravel, moist, A-2-4	-65	9 14 22		
End of Boring at 65.0 ft. bgs				
	-70			
	-75			
	-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

DIRECTORY = L:\McHenryCo\1421801\Draw\CADD_Sheets\S_19_Boring Logs.dgn
USER NAME = Mike Moes

CMT	USER NAME = Mike Moes	DESIGNED - PA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	MODEL NAME = Default	DRAWN - DH	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED - WLB	REVISED -	
	PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

BORING LOGS
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056–3188

SCALE: | SHEET 19 OF 21 SHEETS | STA. | TO STA.

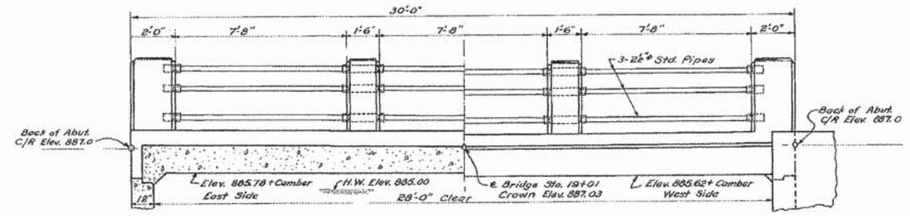
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	54
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		

B.M.– Nail and washer in stump in fence line 65' right of Sta. 18+15. Elev. 885.35.
Existing Structure:- Steel Beams with Concrete Floor, Span 23.7 ft., roadway 16 ft. and Concrete Abutments shall be removed by the Bridge Contractor at start of work. All steel beams shall be salvaged. Substructure shall be completely removed and disposed of as directed by the Engineer.

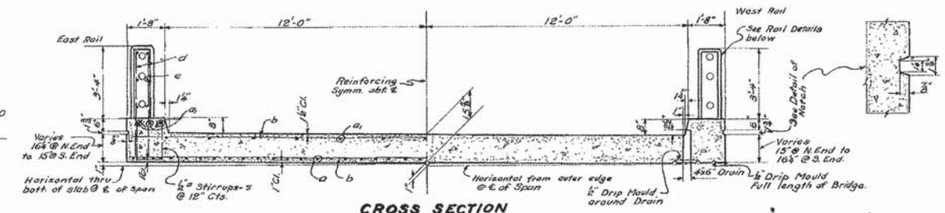
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

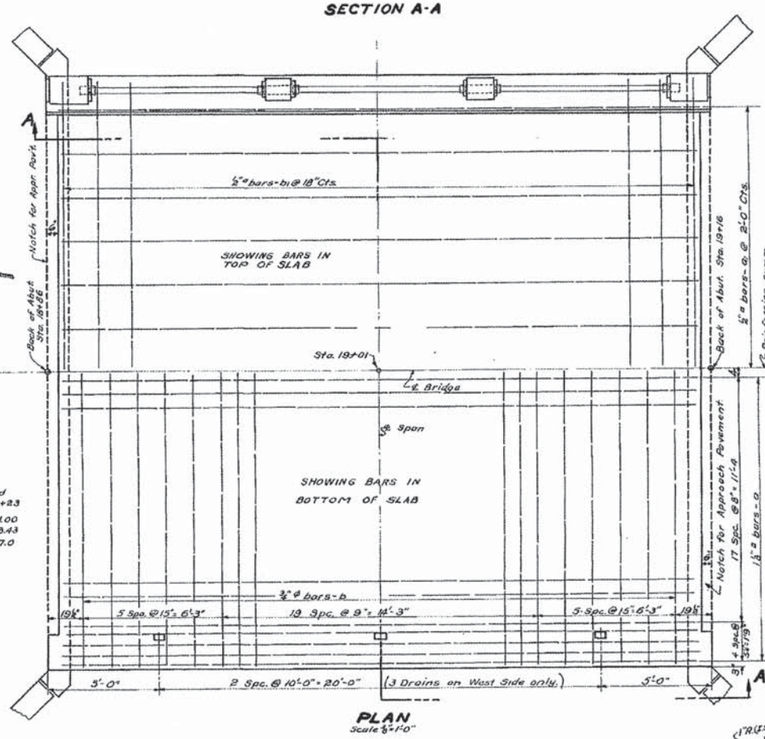
SHEET NO. 1
2 SHEETS



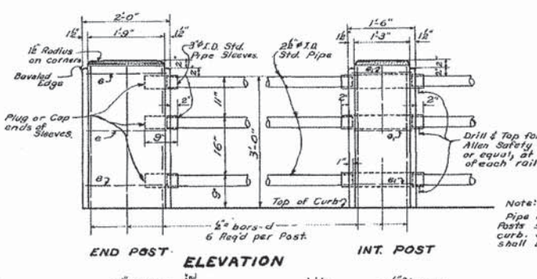
SECTION A-A



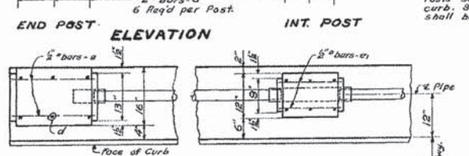
CROSS SECTION
LOOKING SOUTH



PLAN
Scale ⅛"=1'-0"



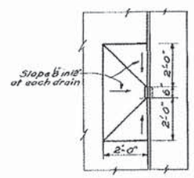
ELEVATION



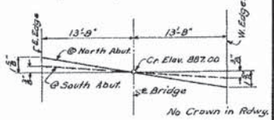
PLAN

RAILING & POST DETAILS
Scale ½"=1'-0"

Note:
Pipe Rails & tops of Rail Posts shall be parallel to curb. Sides of Posts shall be vertical.



PLAN AT
FLOOR DRAIN



SKETCH SHOWING
SUPERELEVATION AT ABUTS.
Looking South

GENERAL NOTES

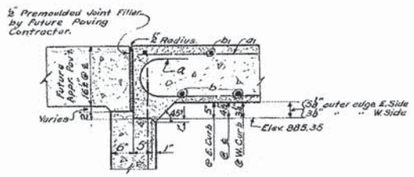
Paint handrail pipe, including exposed surface of sleeves, one shop coat of blue lead paint and two field coats of white lead paint. All paint shall be furnished by the Contractor.

The contract unit price per lin. ft. for handrail pipe shall be payment in full for furnishing, installing and painting the handrail pipe, including sleeves and set screws.

BILL OF MATERIAL

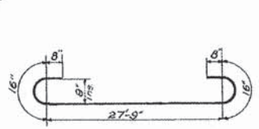
BAR	NO	SIZE	LENGTH
a	44	1⅛" ø	31'-9"
a1	19	½" ø	28'-9"
b	30	⅜" ø	27'-0"
b1	20	½" ø	27'-0"
d	48	½" ø	5'-3"
e	24	½" ø	1'-9"
e1	24	½" ø	1'-3"
g	60	½" ø	5'-6"

Class "X" Concrete	Cu.Yds.	43.4
Reinforcement Bars	Lbs.	8710
Handrail Pipe	Lin.Ft.	141
Removal of Existing Struct.	Each	One
Name Plate	Each	One

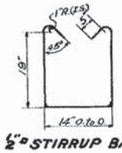


SECTION AT ABUTMENT

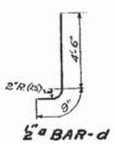
FOR INFORMATION ONLY



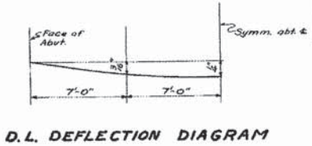
1⅛" ø BAR-a



½" ø STIRRUP BAR-s



½" ø BAR-d



D.L. DEFLECTION DIAGRAM

H15 Loading

STANDARD	COMPUTED	R.E. Mayfield	
	CHECKED	A.D. Jones	
	DRAWN	P.A.M.	R.G.D.
	CHECKED	C.A.D.	
SPECIAL	ASSEMBLED		
	CHECKED		

EXAMINED 6-24-1941
PASSED H. E. Sherman, Engineer of Bridges
APPROVED Ernest Fullerman, Chief Highway Engineer

MITCHELL BRIDGE
BRANCH OF PISCASAW CREEK
S.A. RTE. 19 SEC. 30-B-M.F.T.
McHENRY COUNTY
STA. 19+01

04-15
056-3012

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLOTDRV$$

DIRECTORY = L:\McHenry\2014\01\Draw\CADD_Sheets\S_30_Existing Structure.dgn
USER NAME = Mike Moss

CMT

USER NAME = Mike Moss	DESIGNED - PA	REVISED -
MODEL NAME = Default	DRAWN - DH	REVISED -
PLOT SCALE = 1.0000 '/ in.	CHECKED - WLB	REVISED -
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE – 1
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056–3188

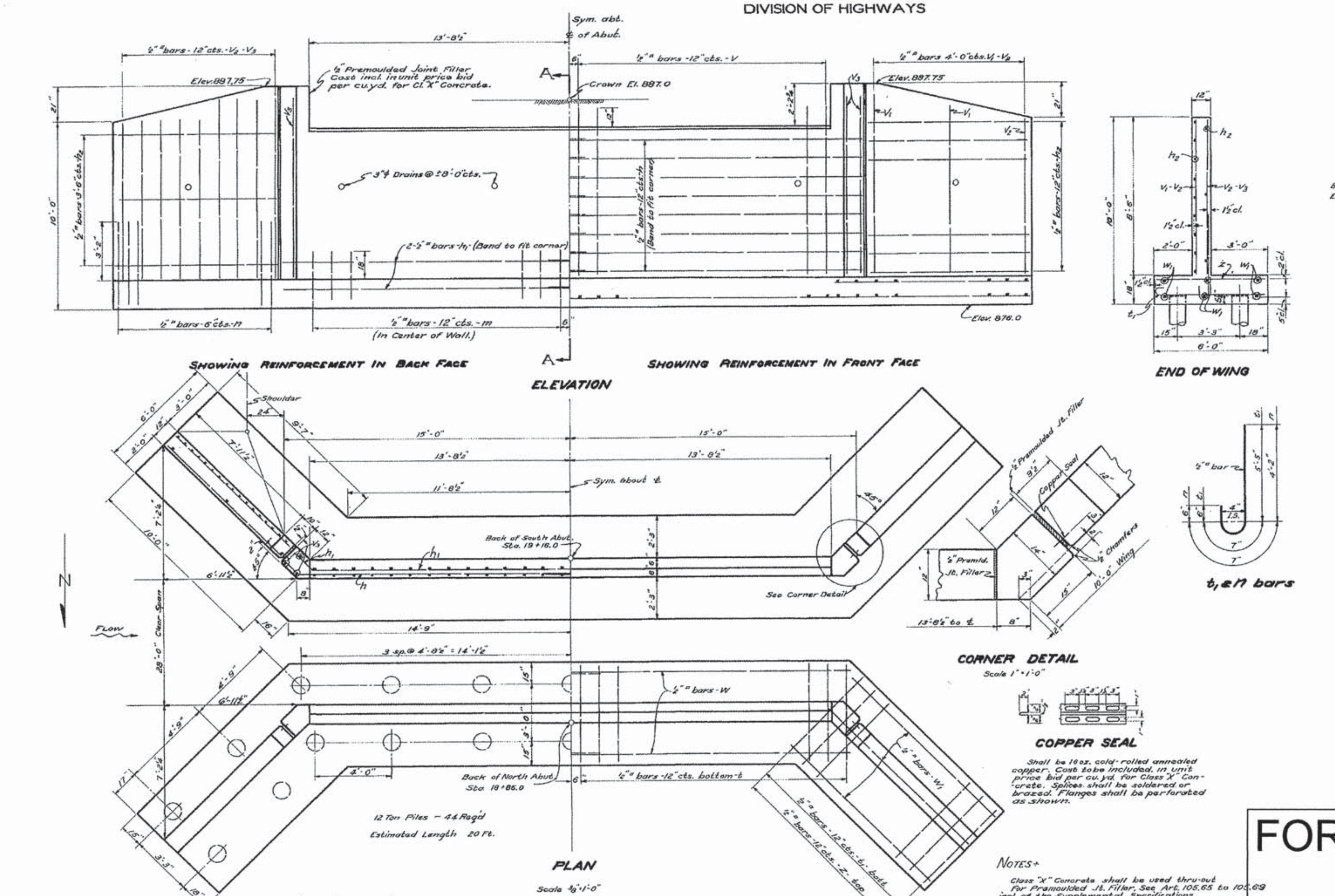
SCALE: N.T.S. | SHEET 20 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	55
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

B.M. – N.&W. in Stump in Fence Line 65' right of Sta. 18+15. Elev. 885.35

SHEET NO. 2
2 SHEETS



COPPER SEAL

Shall be 16 oz. cold-rolled annealed copper. Cost to be included in unit price bid per cu. yd. for Class "X" Concrete. Splices shall be soldered or brazed. Flanges shall be perforated as shown.

BILL OF MATERIAL – TWO ABUTMENTS

Bar	No.	Size	Length	Bar	No.	Size	Length
h	32	½"φ	16'-0"	V	56	½"φ	9'-0"
h₁	8	½"φ	15'-6"	V₁	8	½"φ	9'-0"
h₂	48	½"φ	8'-6"	V₂	24	½"φ	8'-6"
n	68	½"φ	5'-3"	V₃	28	½"φ	9'-6"
t	60	½"φ	6'-9"				
t₁	44	½"φ	6'-6"	W	8	½"φ	15'-6"
				W₁	24	½"φ	10'-6"
m	56	½"φ	2'-6"	Z	44	½"φ	5'-9"

Class "X" Concrete	Cu. yds.	59.8
Reinforcement Bars	Lbs.	3320
Untreated Piles (20 Ft.)	Lin. Ft.	880
Test Pile	Ea.	One

NOTES:

Class "X" Concrete shall be used thru-out.
For Premoulded Jt. Filler, See Art. 105.65 to 105.69 incl. of the Supplemental Specifications.
For embankment and backfill, see Art. 48.2(i) of the Supplemental Specifications.

FOR INFORMATION ONLY

MITCHELL BRIDGE
BRANCH OF PISCASAW CREEK
S.A. RTE. 19 SEC. 30 B - M.F.T.
McHENRY CO.
STA. 19+01

H-15 Loading

STANDARD	COMPUTED R.K. Murphy
	CHECKED
	DRAWN
	CHECKED
SPECIAL	ASSEMBLED
	CHECKED

EXAMINED 6-2-1941
PASSED
APPROVED

CMT

USER NAME = Mike Moss	DESIGNED – PA	REVISED –
MODEL NAME = Default	DRAWN – DH	REVISED –
PLOT SCALE = 1.0000 '/ in.	CHECKED – WLB	REVISED –
PLOT DATE = 6/22/2015	DATE – 6/22/2015	REVISED –

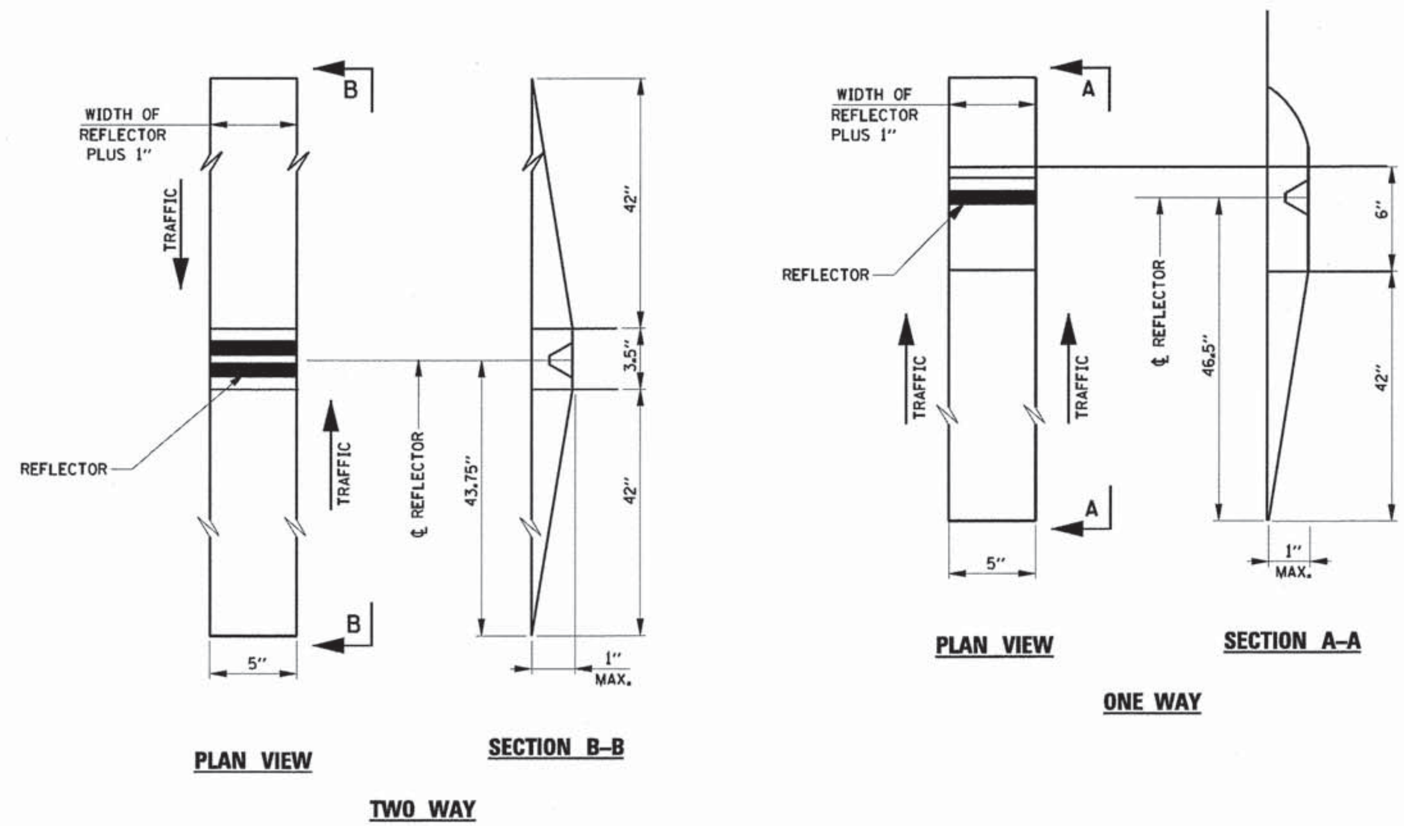
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE – 2
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 21 OF 21 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	56
		CONTRACT NO. 61B85		

ILLINOIS FED. AID PROJECT



RECESSED REFLECTIVE MARKERS

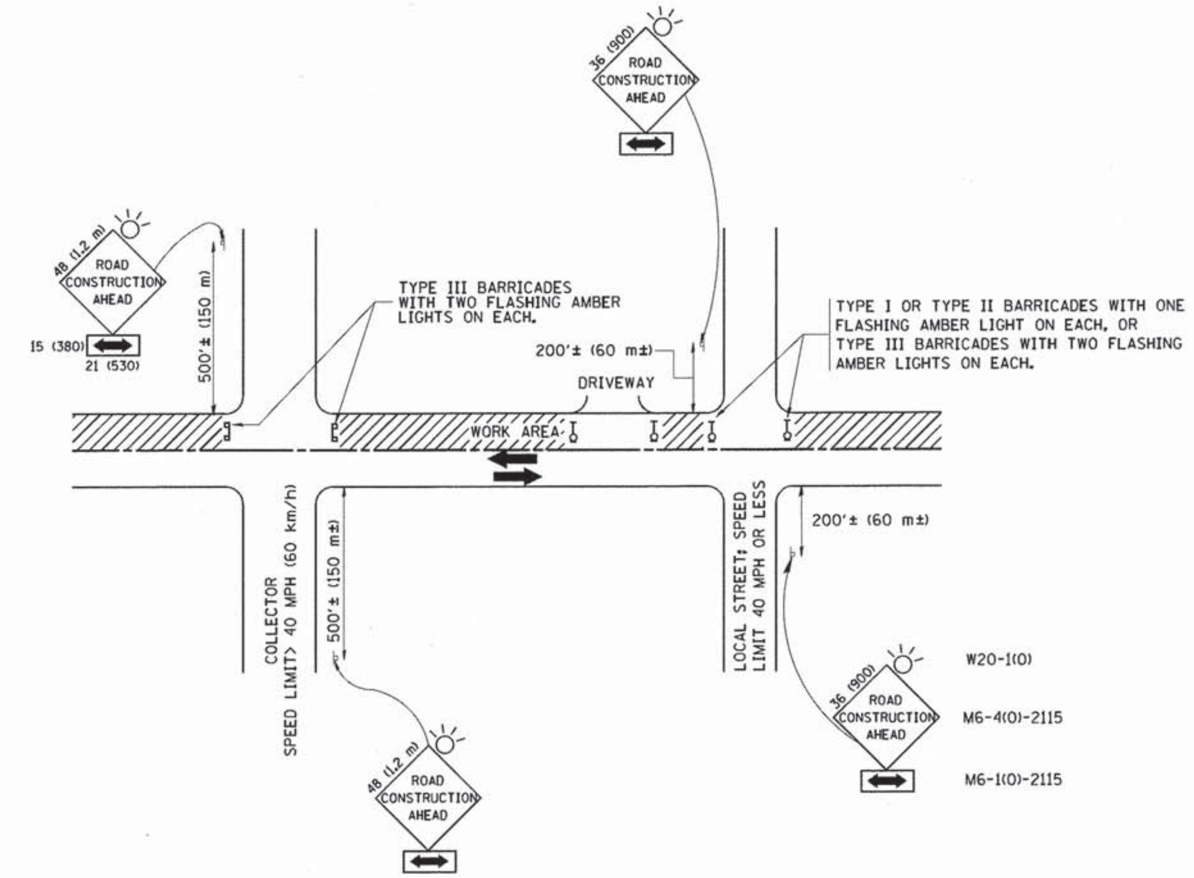
INSTALLATION NOTES:

1. SAWCUT IN DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OR MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BAND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR ½ TO ¼ INCH BELOW THE PAVEMENT SURFACE.
5. REFLECTOR SHALL BE 3M SERIES 290.

GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT IN RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

CMT	USER NAME = Jason Roitburd	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY COUNTY: RECESSED REFLECTIVE PAVEMENT MARKING LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188	F.A. RTE. 4079 / SECTION 10-00376-00-BR / COUNTY MCHENRY / TOTAL SHEETS 73 / SHEET NO. 57
		DRAWN - KWS	REVISED -			CONTRACT NO. 61B85
	PLOT SCALE = 40.0000 ' / in.	CHECKED - CMC	REVISED -			
License No. 184-000613	PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. / SHEET 1 OF 1 SHEETS / STA. N.A. TO STA. N.A.	ILLINOIS FED. AID PROJECT



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

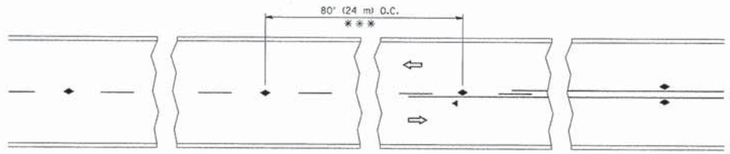
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

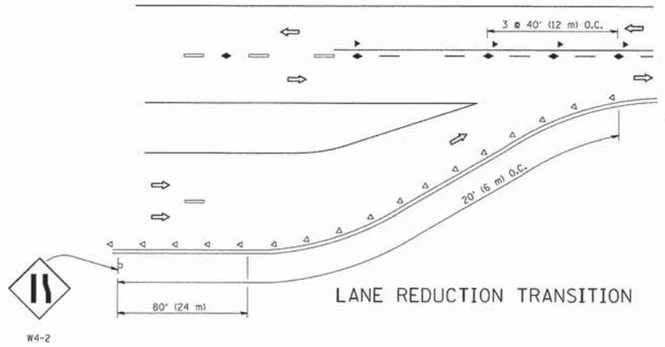
All dimensions are in millimeters (inches) unless otherwise shown.

CMT	USER NAME = Jason Roitburd	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD: TC-10 LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK STRUCTURE NO. 056-3188	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - KWS	REVISED -			4079	10-00376-00-BR	MCHENRY	73 / 58
	PLOT SCALE = 40.0000 '/ in.	CHECKED - CMC	REVISED -					CONTRACT NO. 61B85	
License No. 184-000613	PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -		SCALE: N.T.S. SHEET 1 OF 6 SHEETS STA. N.A. TO STA. N.A.		ILLINOIS FED. AID PROJECT		

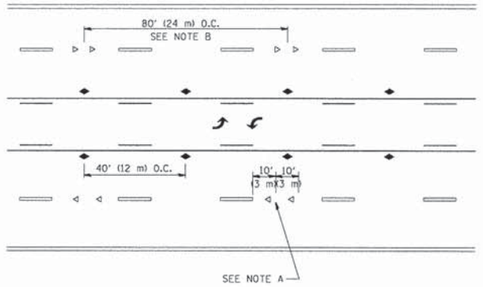


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

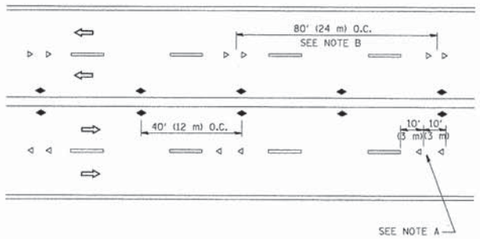
TWO-LANE/TWO-WAY



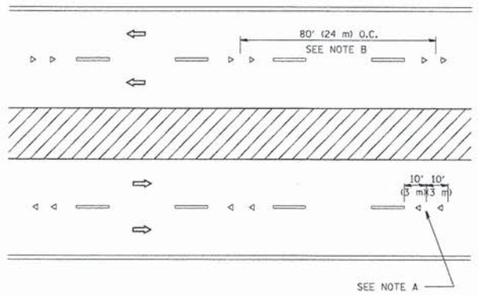
LANE REDUCTION TRANSITION



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

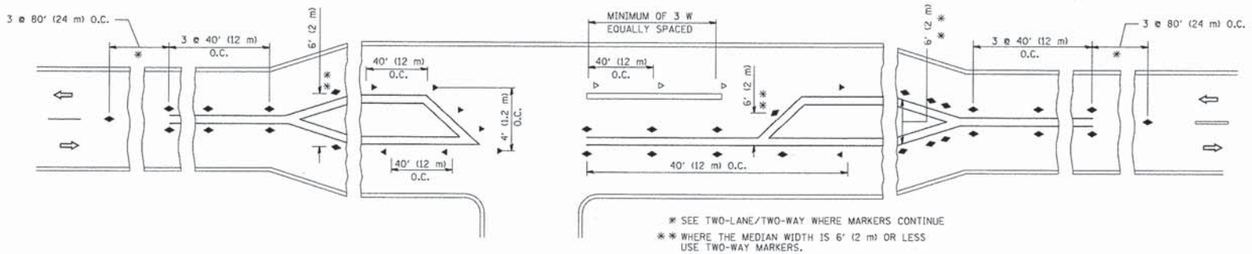
LANE MARKER NOTES

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.

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVR$

DIRECTORY = L:\Mchenry\Civil\218111\Dsn\D400_Sheets\bh401 Standard402.dgn
USER NAME = Jason Rostburd

CMT
License No. 184-000613 © Copyright CMT, Inc.

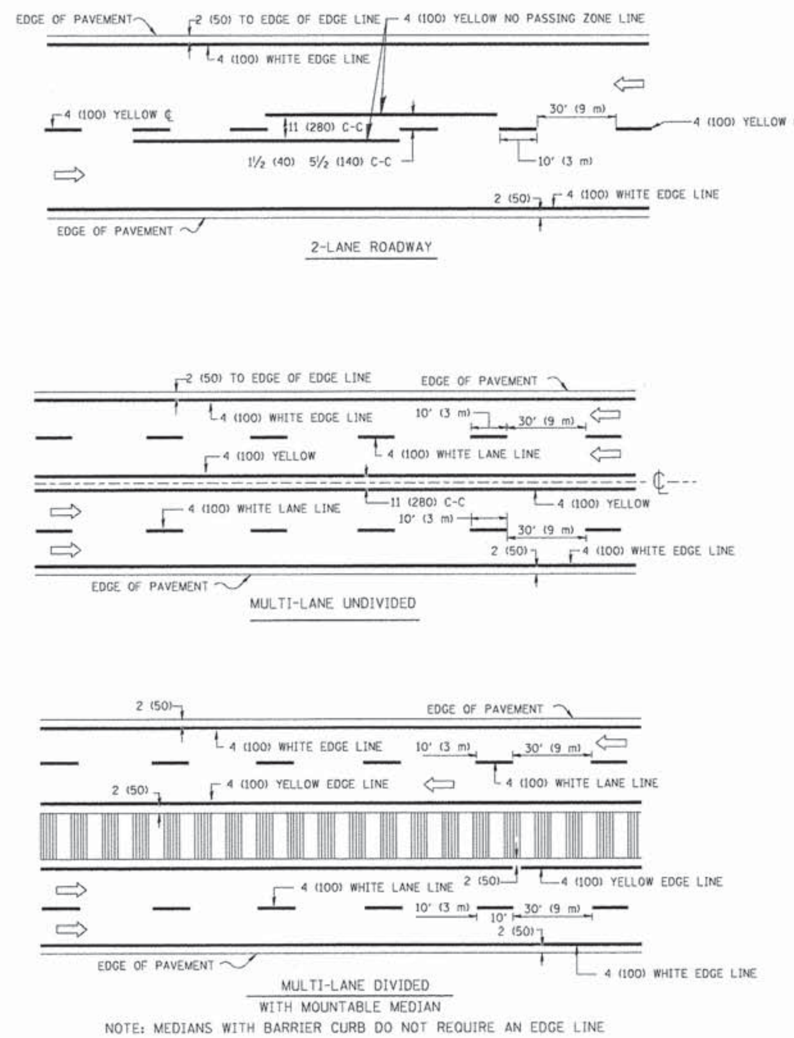
USER NAME = Jason Rostburd	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

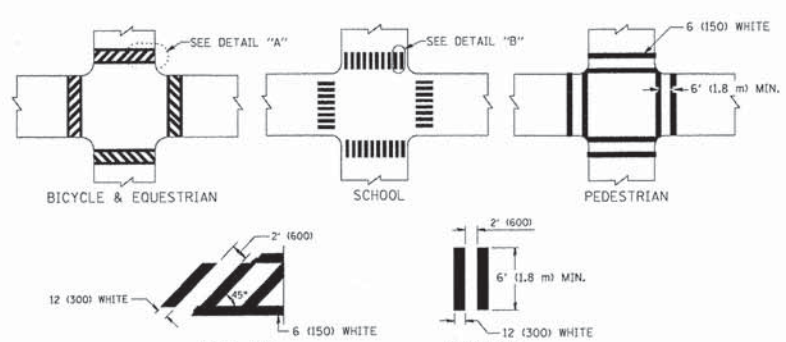
DISTRICT 1 STANDARD: TC-11
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 2 OF 6 SHEETS | STA. N.A. | TO STA. N.A.

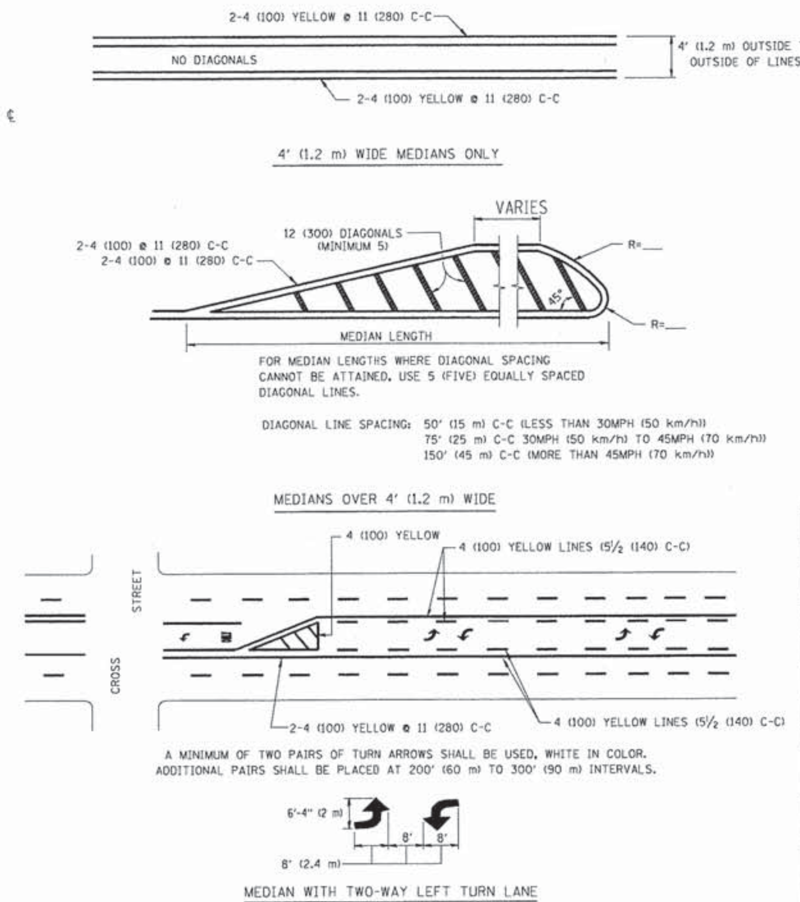
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	59
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



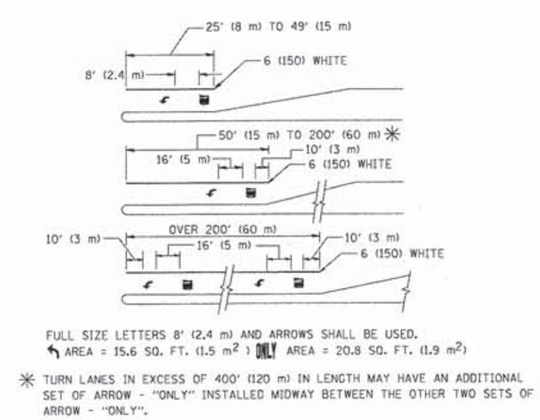
TYPICAL LANE AND EDGE LINE MARKING



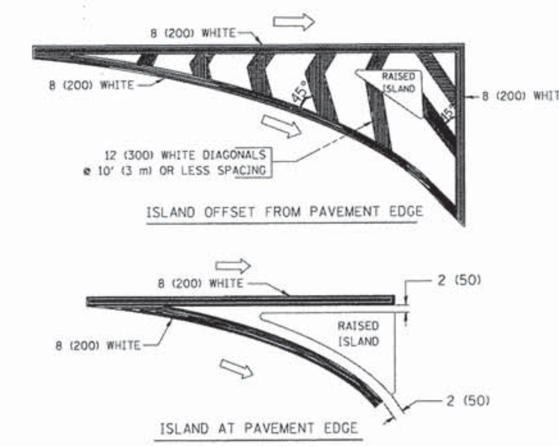
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRV$

DIRECTORY = L:\...\Standard-03.dgn
USER NAME = Jason Roitburd

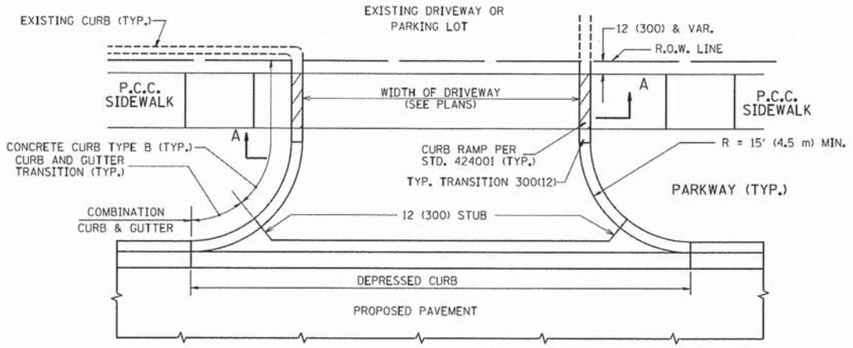
CMT

USER NAME = Jason Roitburd	DESIGNED - KWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - KWS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/30/2015	DATE - 6/22/2015	REVISED -	

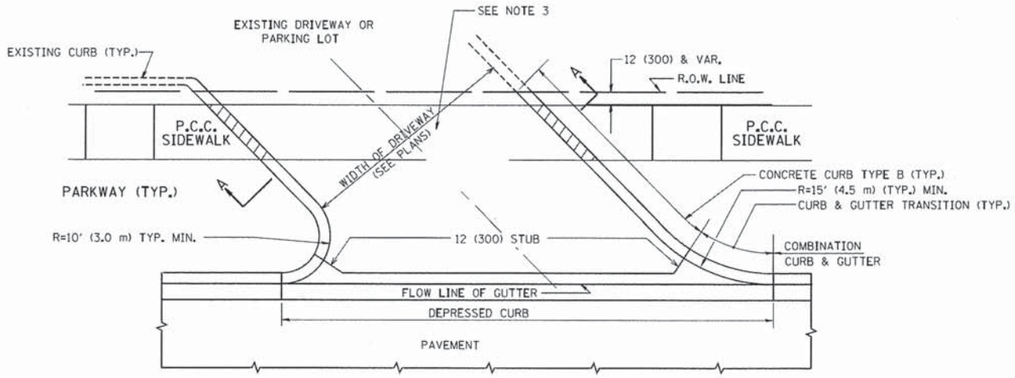
DISTRICT 1 STANDARD: TC-13
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 3 OF 6 SHEETS | STA. N.A. TO STA. N.A.

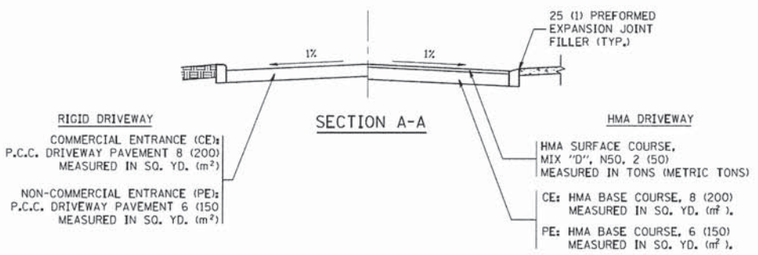
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	60
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			

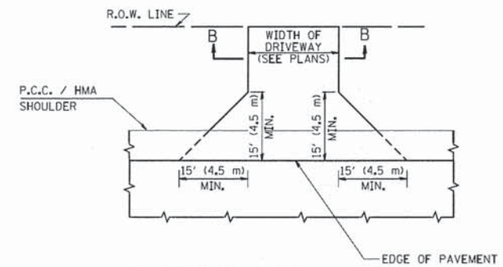


WITH CONCRETE CURB, TYPE B

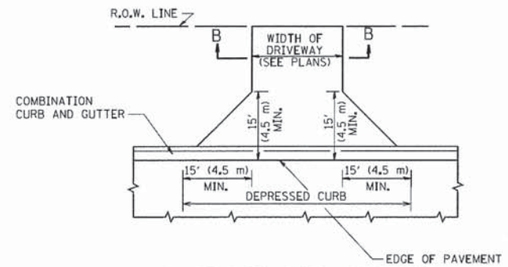


WITH CONCRETE CURB, TYPE B

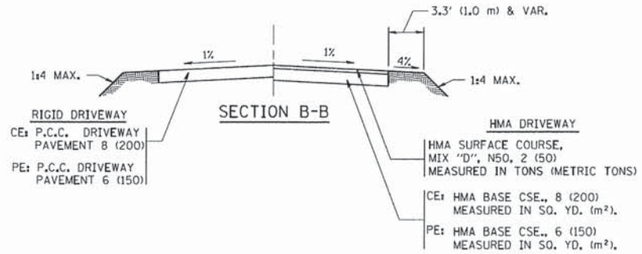




ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

PEN TABLE = $PENTBL$
PLOT DRIVER = $PLTDRVR$

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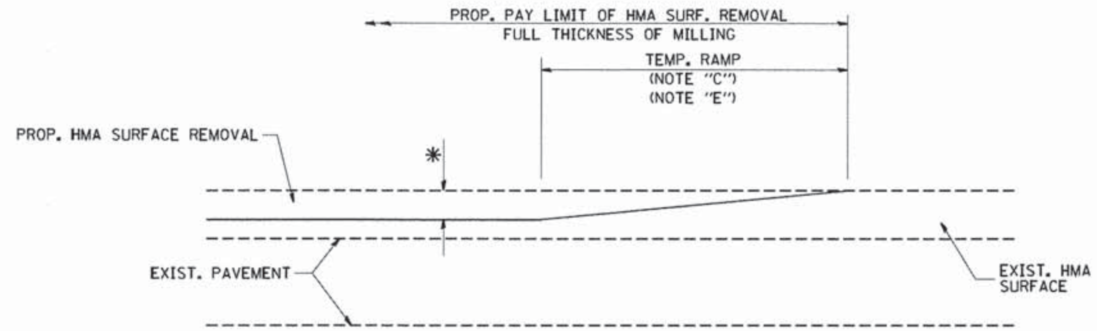
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD: BD-01
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 4 OF 6 SHEETS | STA. N.A. | TO STA. N.A.

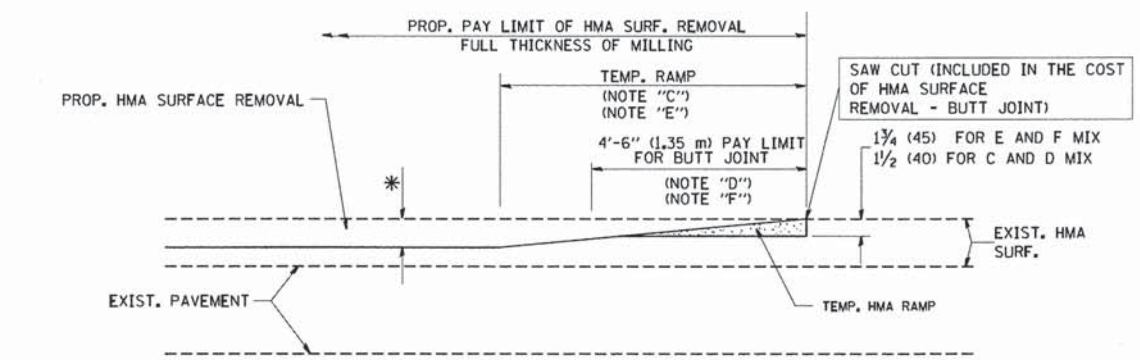
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	61
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

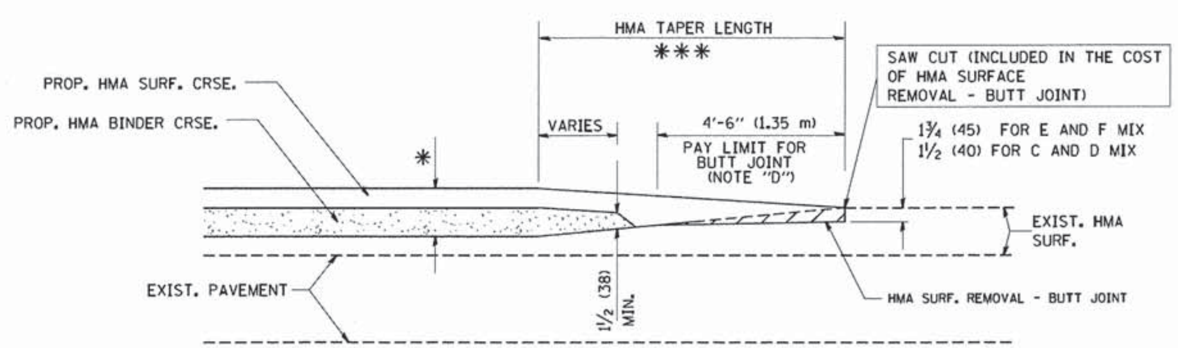


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

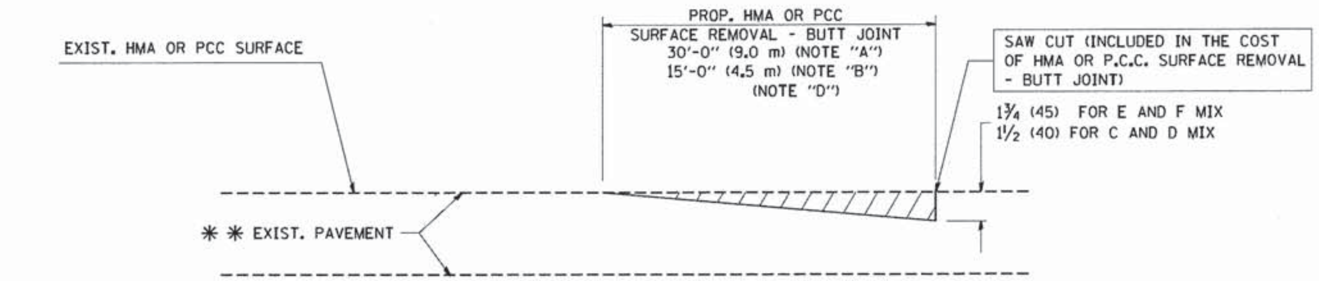
OPTION 2

TYPICAL TEMPORARY RAMP

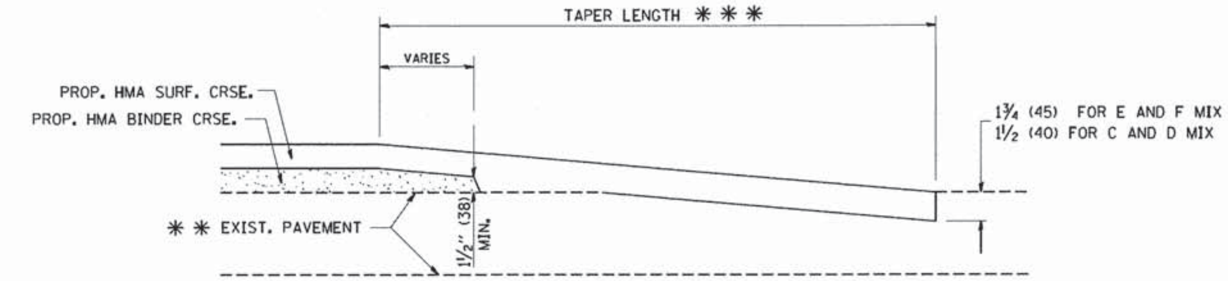


BUTT JOINT AND HMA TAPER

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.

PEN TABLE = $PENTBLS$
PLOT DRIVER = $PLTDRV$$

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DISTRICT 1 STANDARD: BD-32
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 5 OF 6 SHEETS | STA. N.A. TO STA. N.A.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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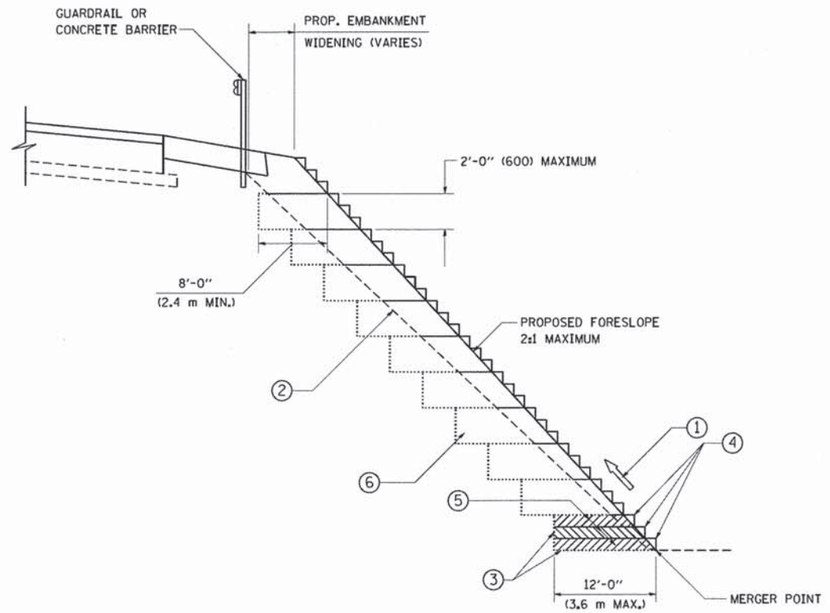
		CONTRACT NO. 61B85		
	ILLINOIS	FED. AID PROJECT		



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
6. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

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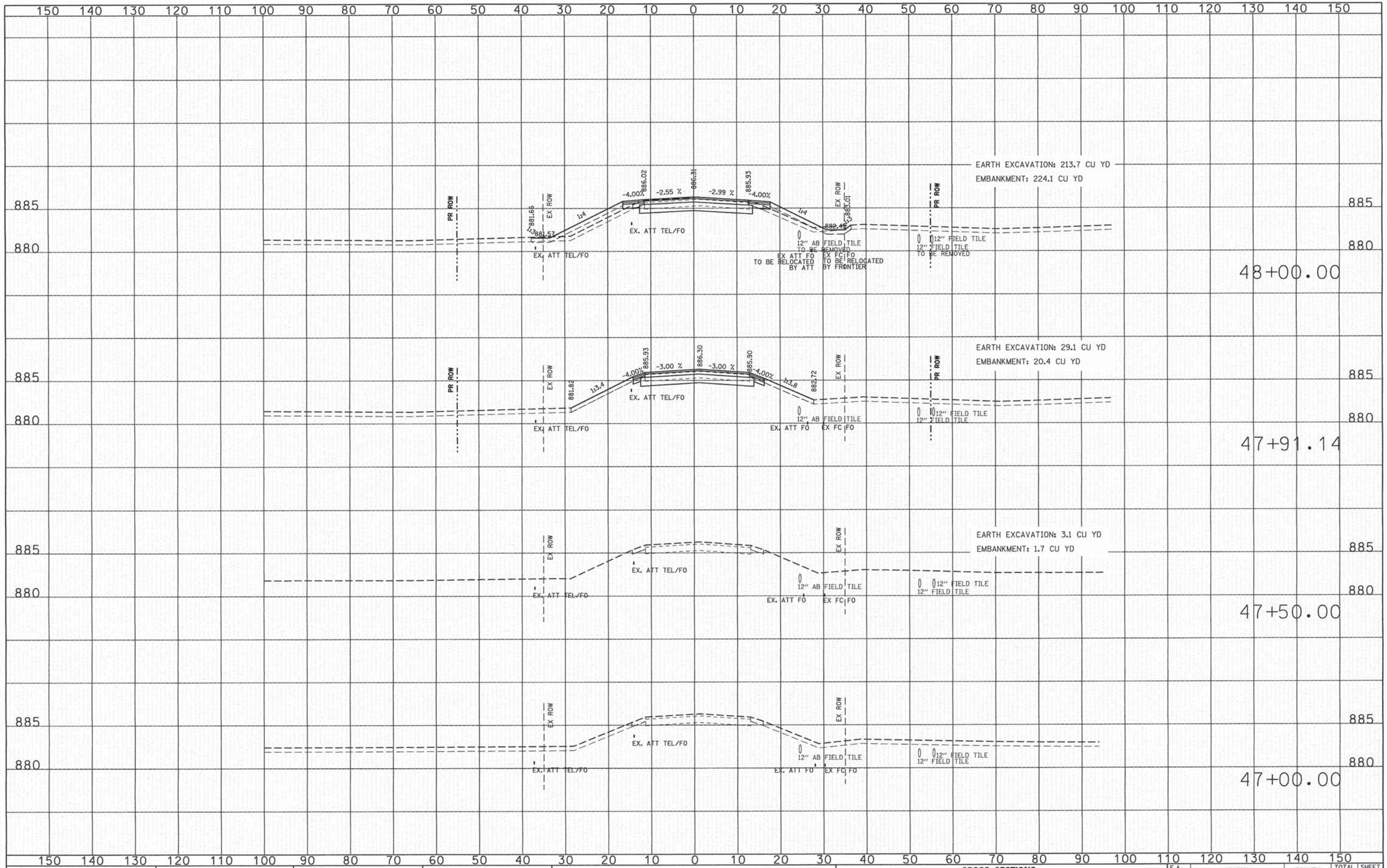
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD: BD-51
LAWRENCE BRIDGE OVER TRIBUTARY OF LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: N.T.S. | SHEET 6 OF 6 SHEETS | STA. N.A. | TO STA. N.A.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4079	10-00376-00-BR	MCHENRY	73	63
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



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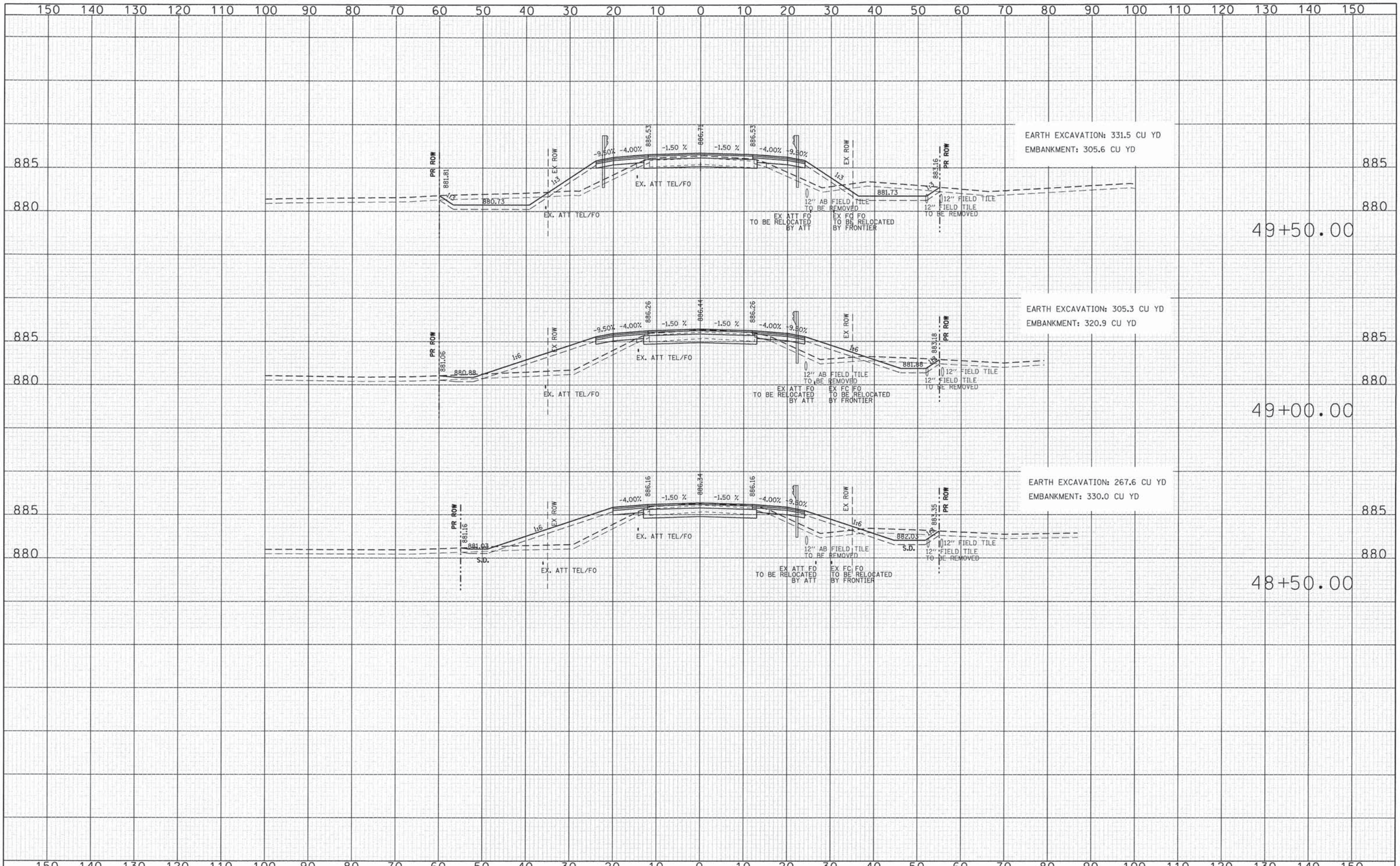
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 1 OF 10 SHEETS | STA. 47+00.00 | TO STA. 48+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00376-00-BR	MCHENRY	73	64
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 2 OF 10 SHEETS | STA. 48+31.35 | TO STA. 49+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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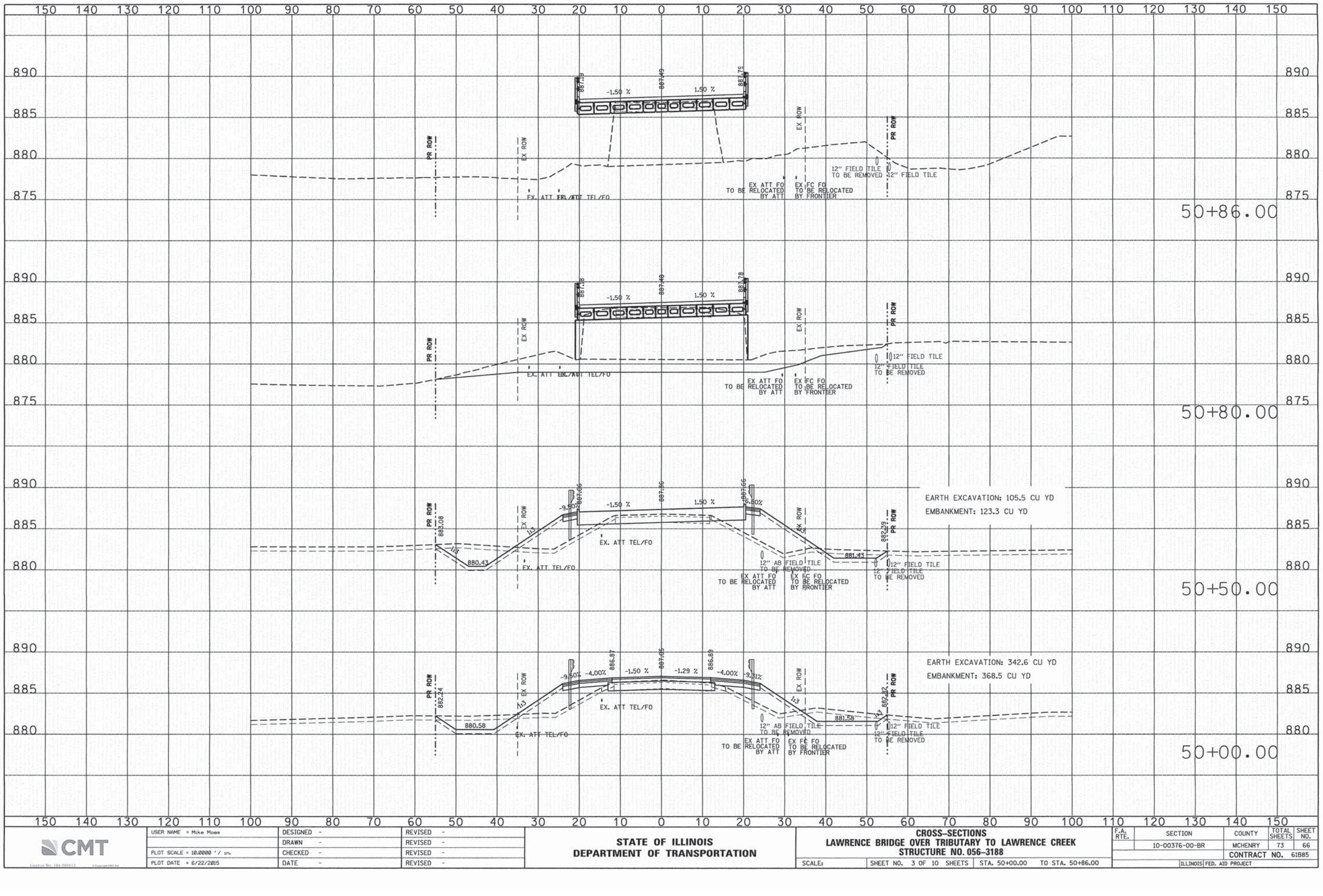
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



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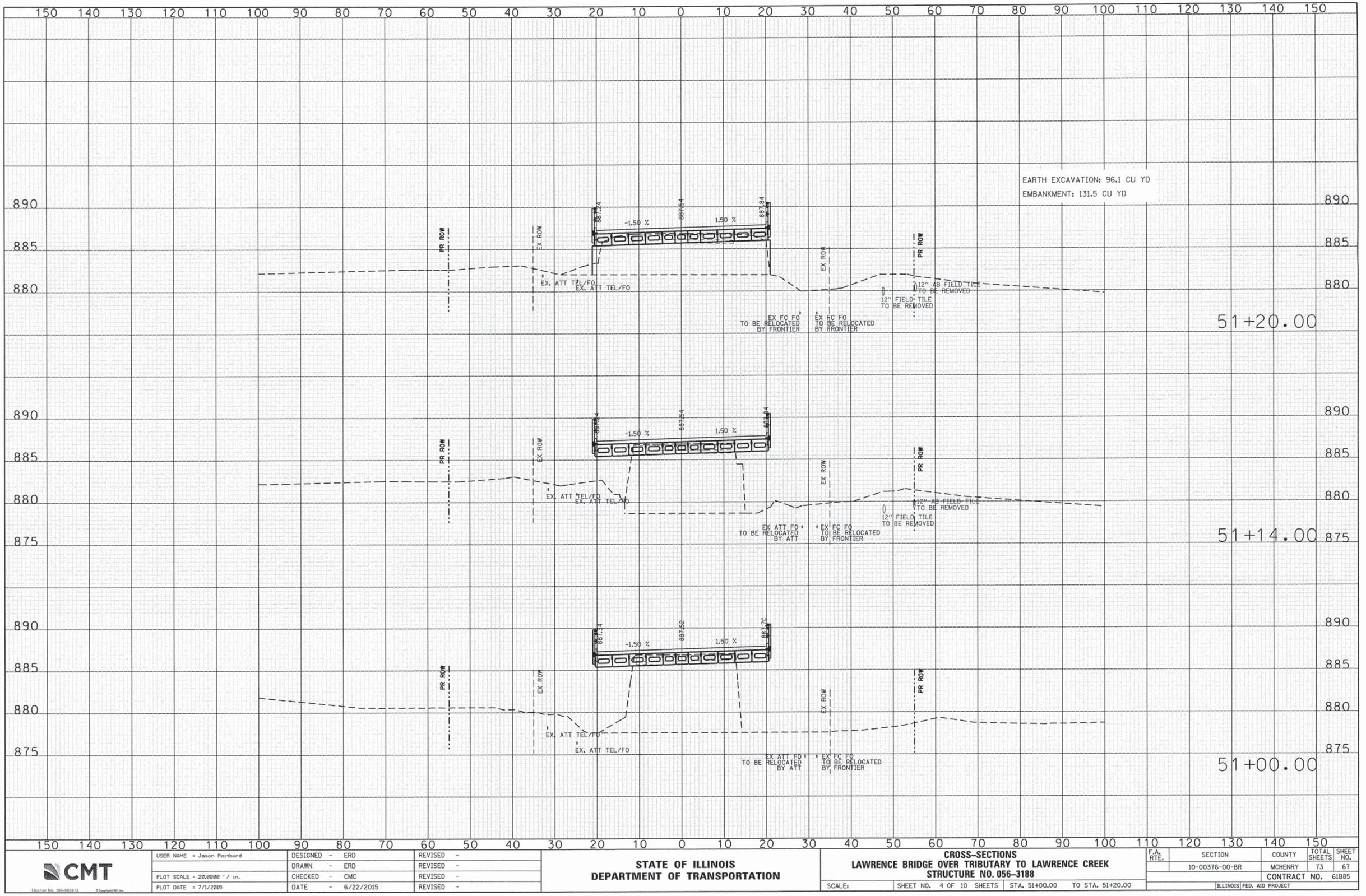
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 3 OF 10 SHEETS | STA. 50+00.00 | TO STA. 50+86.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00376-00-BR	MCHENRY	73	66
		CONTRACT NO. 61B85		
		ILLINOIS FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 4 OF 10 SHEETS | STA. 51+00.00 TO STA. 51+20.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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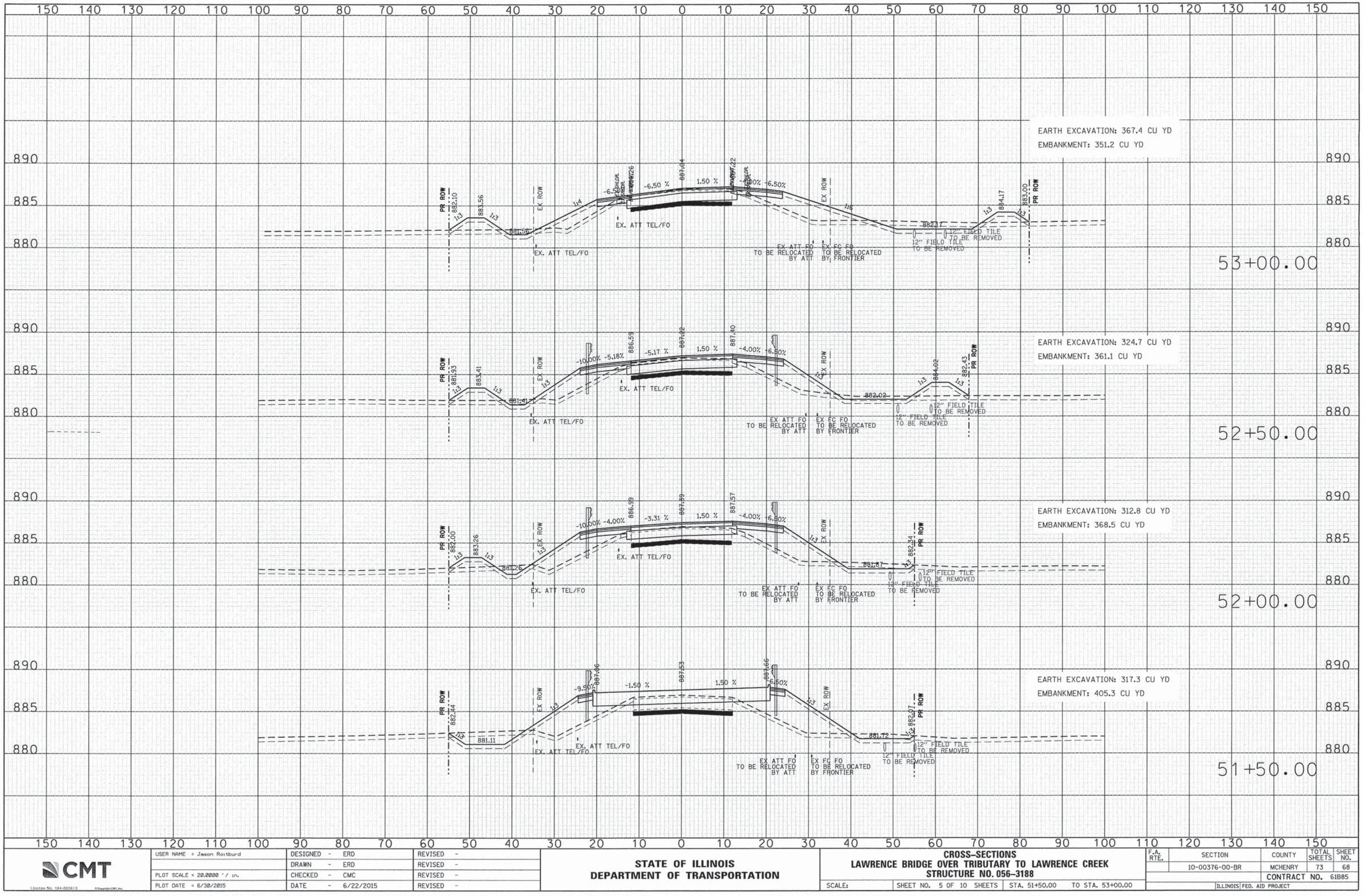
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 5 OF 10 SHEETS | STA. 51+50.00 | TO STA. 53+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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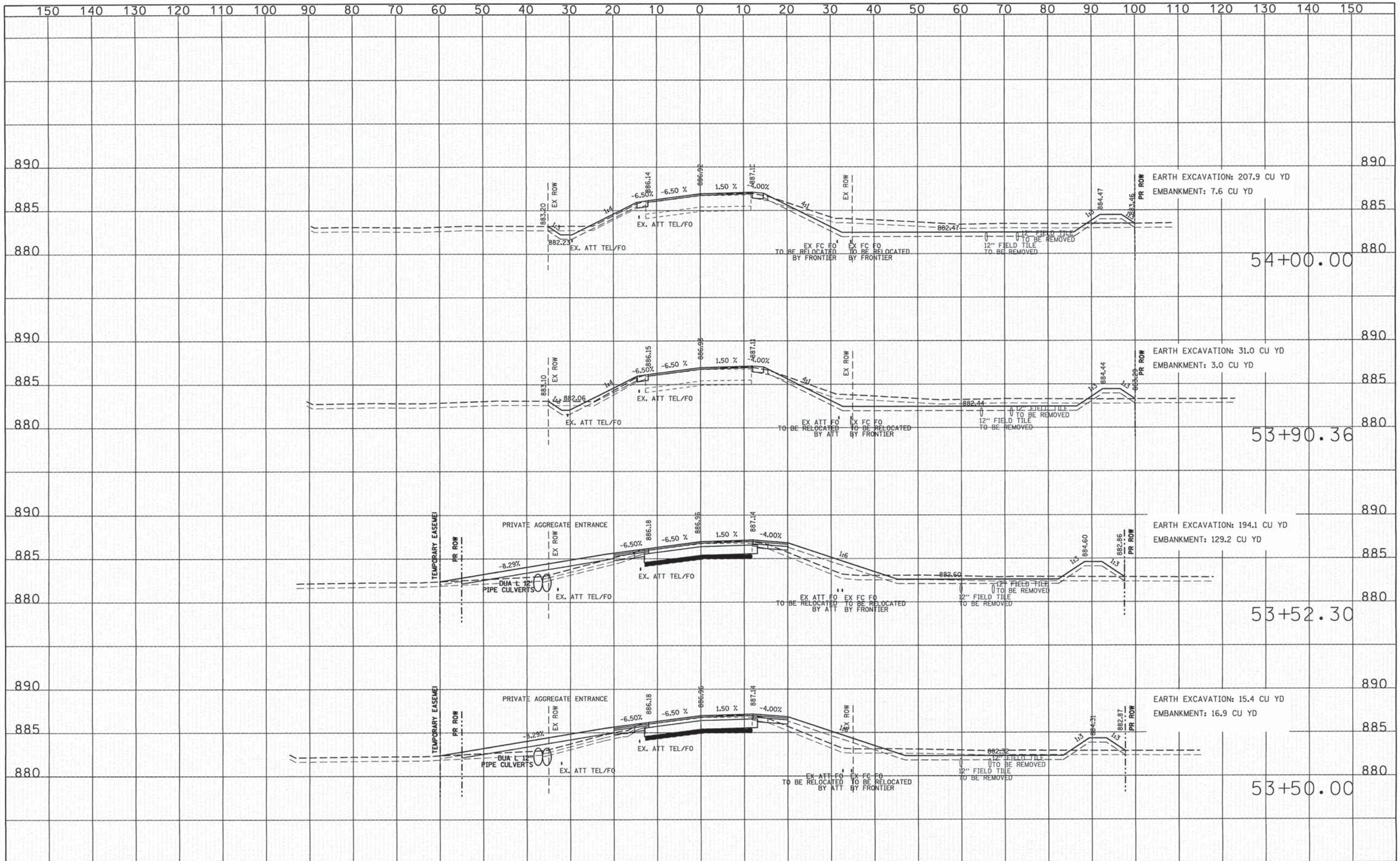
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



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PLOT DATE = 6/22/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 6 OF 10 SHEETS | STA. 53+50.00 | TO STA. 54+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 61B85		
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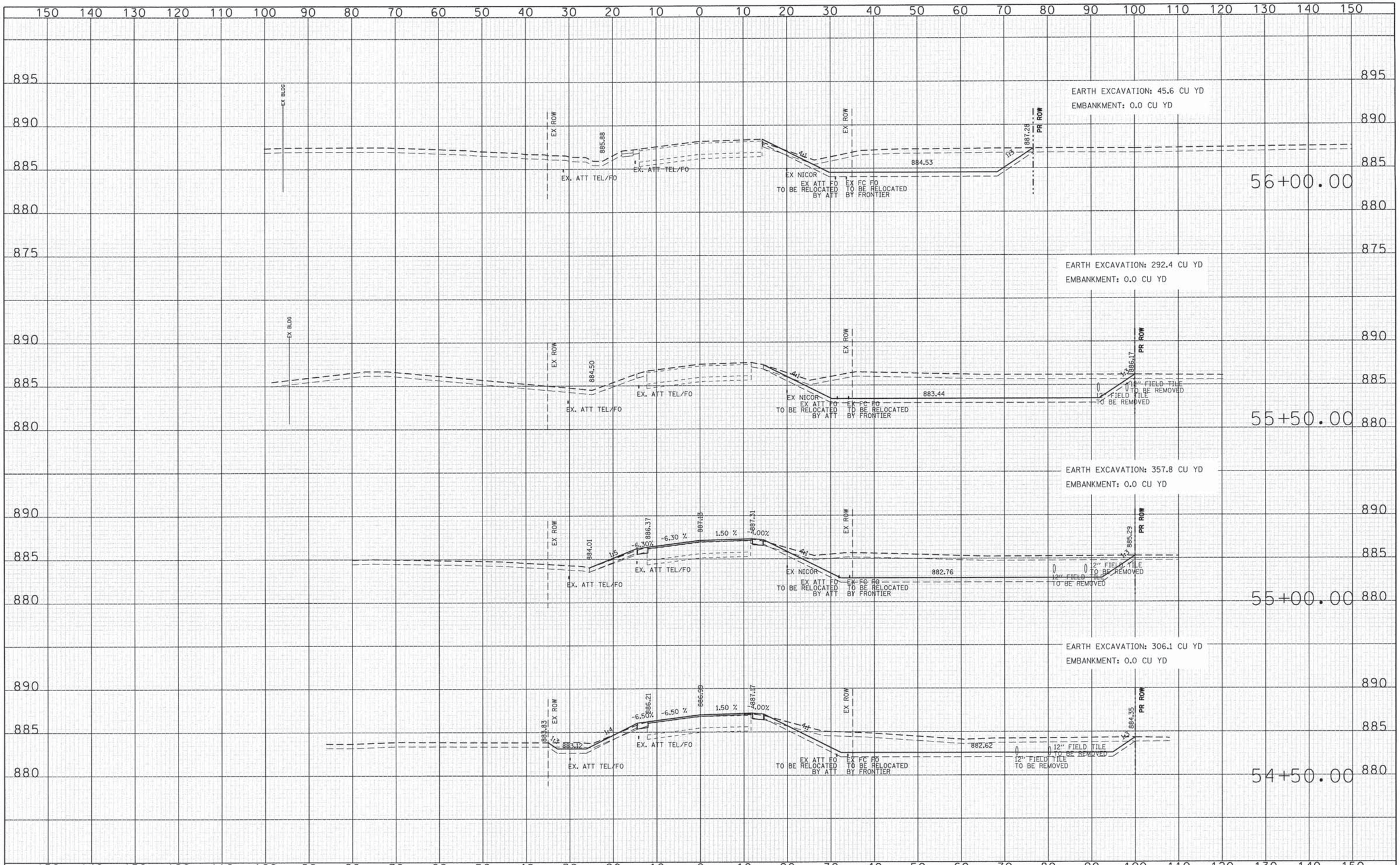

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CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 7 OF 10 SHEETS | STA. 54+50.00 TO STA. 56+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00376-00-BR	MCHENRY	73	70
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890
885

EX ROW
EX. ATT TEL/FO
EX NICOR
EX ATT FO TO BE RELOCATED BY ATT
EX FC FO TO BE RELOCATED BY FRONTIER
EX ROW

890
885

57+50.00

890
885

EX ROW
EX. ATT TEL/FO
EX. ATT TEL/FO
EX NICOR
EX ATT FO TO BE RELOCATED BY ATT
EX FC FO TO BE RELOCATED BY FRONTIER
EX ROW

890
885

57+00.00

EARTH EXCAVATION: 92.3 CU YD
EMBANKMENT: 0.0 CU YD

890
885

EX ROW
885.82
EX. ATT TEL/FO
EX. ATT TEL/FO
EX ROW
4:1
885.61
1:3
888.07
PR ROW
EX NICOR
EX ATT FO TO BE RELOCATED BY ATT
EX FC FO TO BE RELOCATED BY FRONTIER
S.D.

890
885

56+50.00

EARTH EXCAVATION: 108.0 CU YD
EMBANKMENT: 0.0 CU YD

890
885

EX BLDG
EX ROW
EX. ATT TEL/FO
EX. ATT TEL/FO
EX ROW
4:1
884.77
1:3
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S.D.

890
885

56+11.36

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 8 OF 10 SHEETS | STA. 56+11.36 | TO STA. 57+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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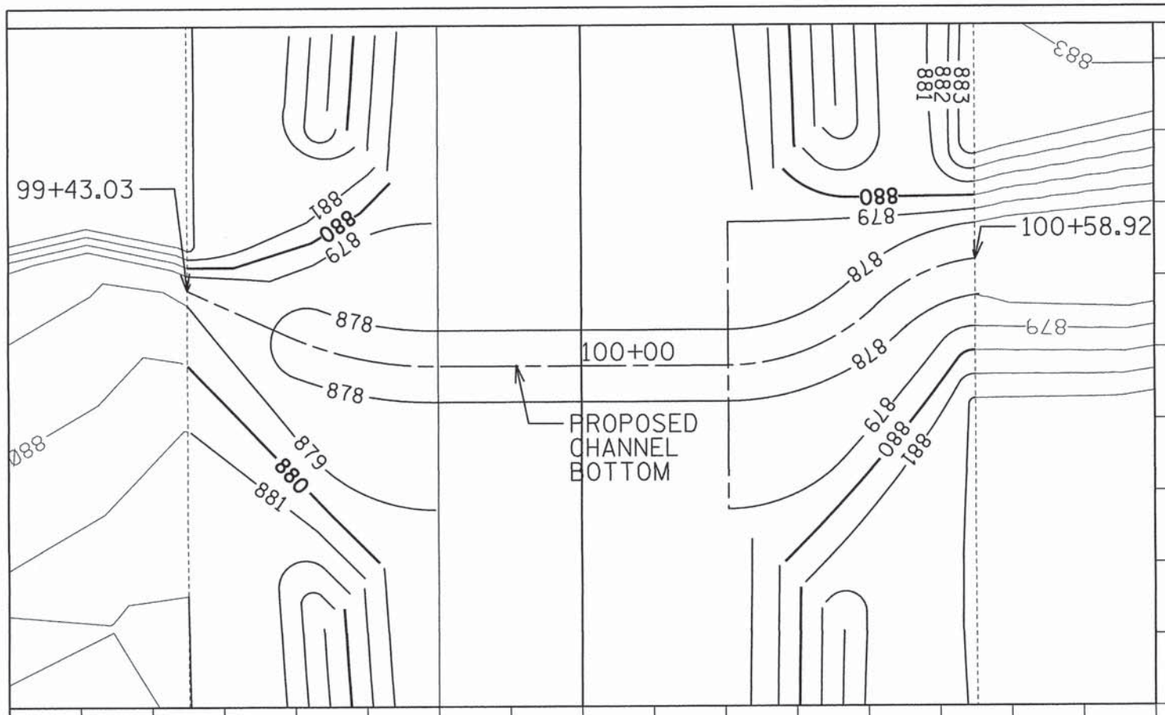

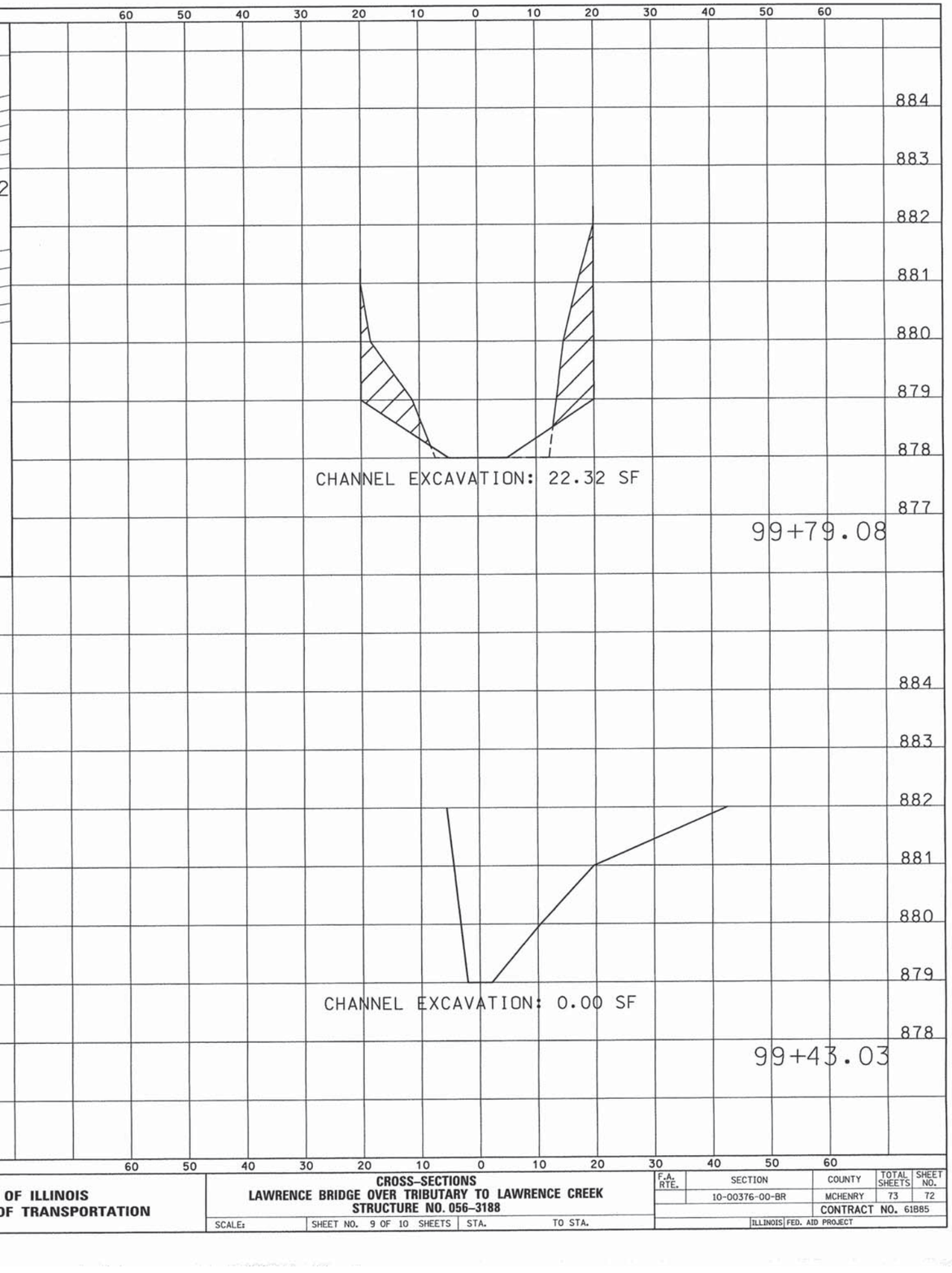

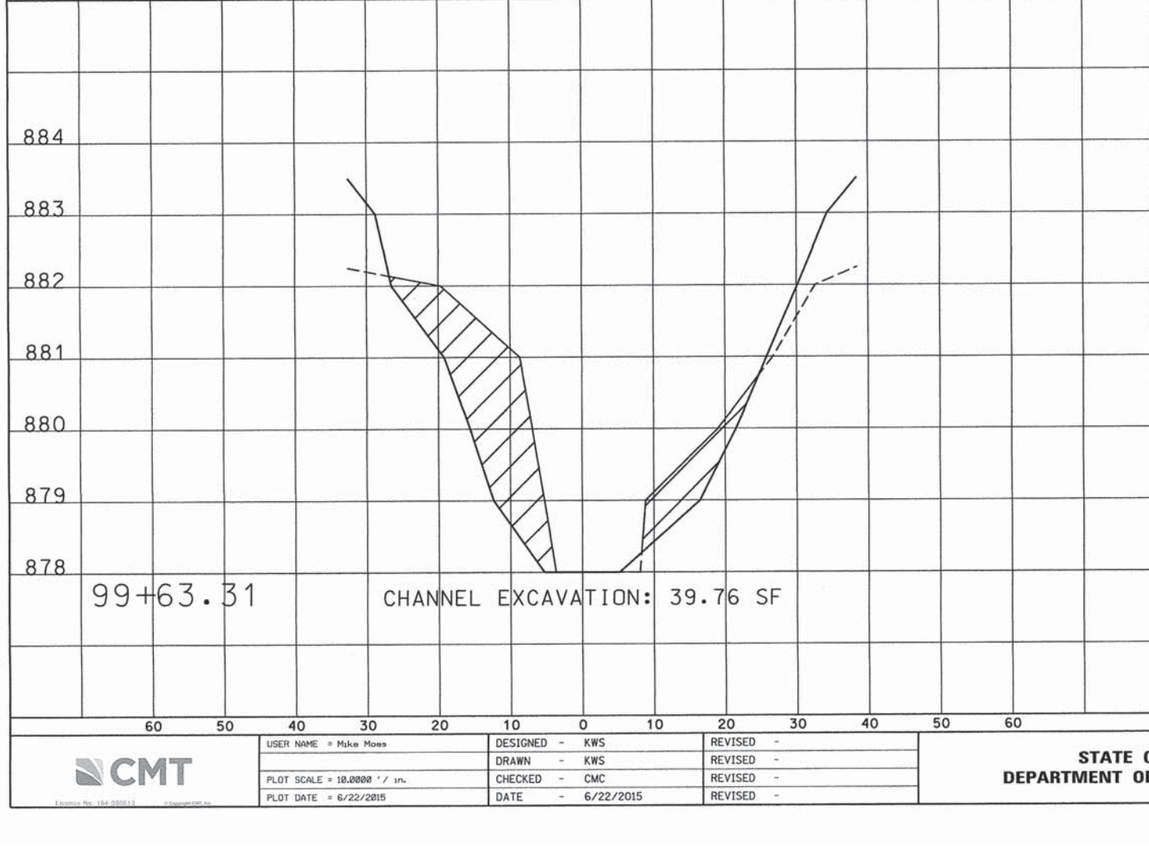

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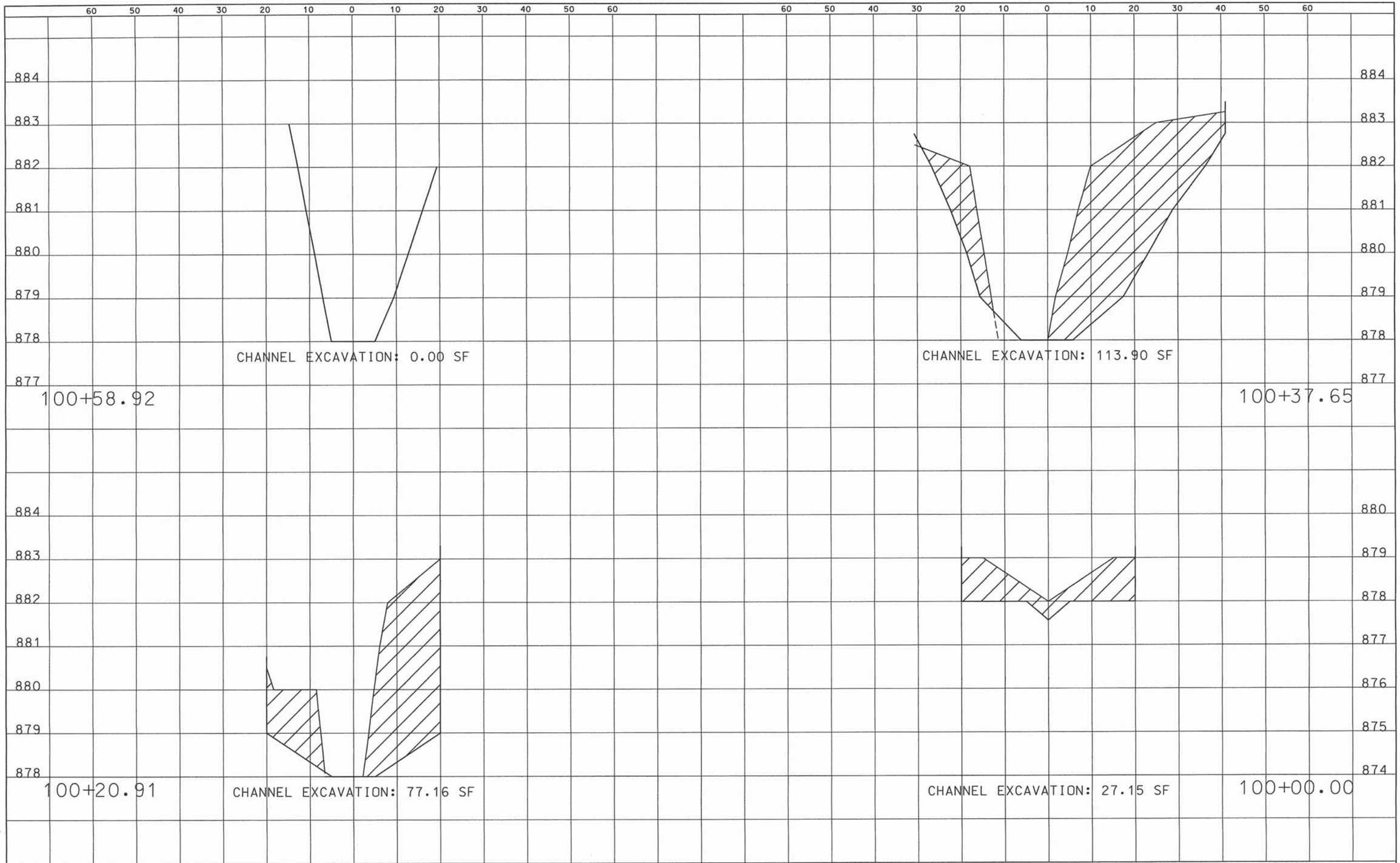
CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 9 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00376-00-BR	MCHENRY	73	72
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			



FILE NAME = L:\McHenry\Co\142188\Drwg\D600_Sheets\shts-Xsections_Creek.dgn

CMT
License No. 184-000612

USER NAME = Mike Moes	DESIGNED - KWS	REVISED -	
	DRAWN - KWS	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - CMC	REVISED -	
PLOT DATE = 6/22/2015	DATE - 6/22/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
LAWRENCE BRIDGE OVER TRIBUTARY TO LAWRENCE CREEK
STRUCTURE NO. 056-3188

SCALE: | SHEET NO. 10OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00376-00-BR	MCHENRY	73	73
		CONTRACT NO. 61B85		
	ILLINOIS FED. AID PROJECT			